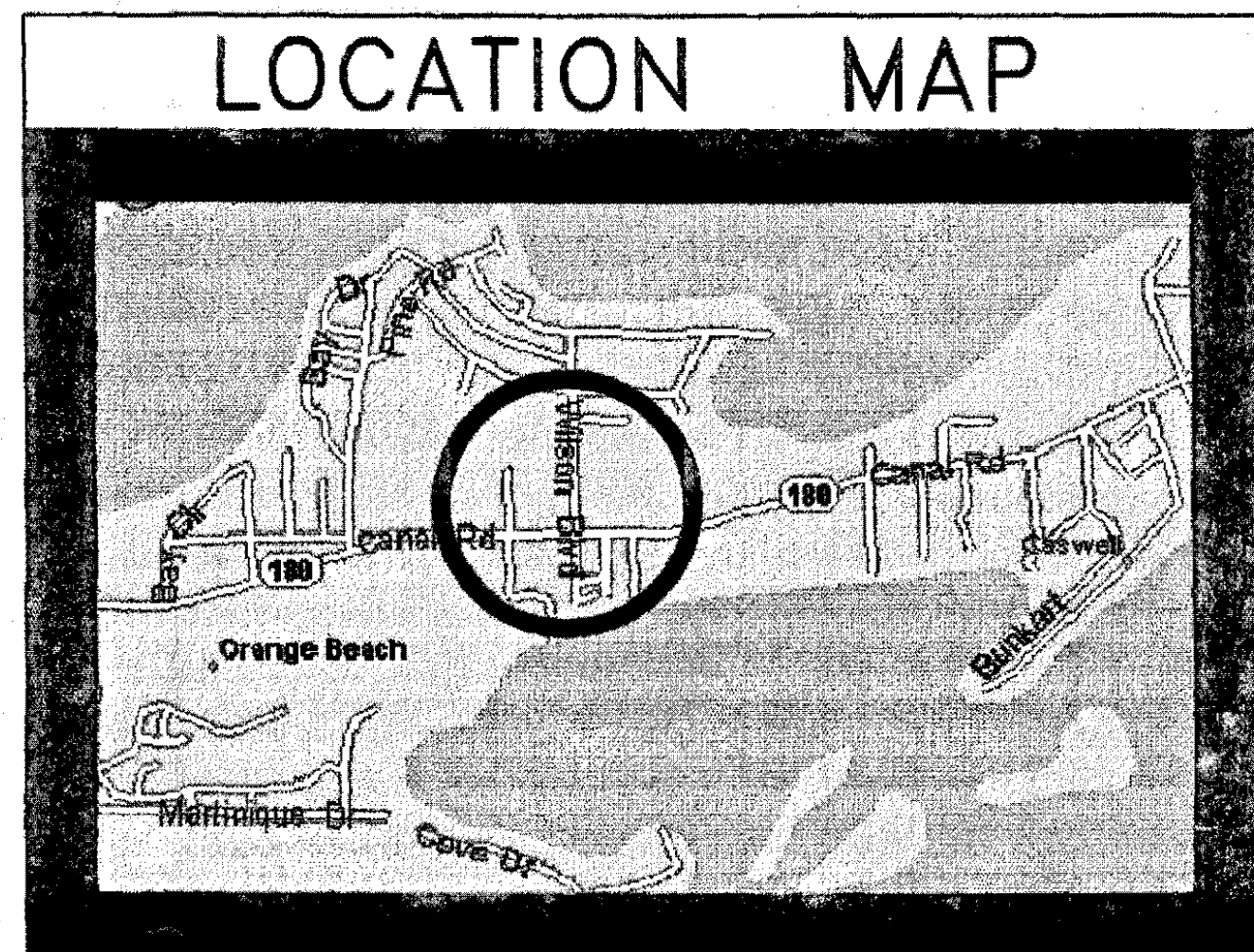
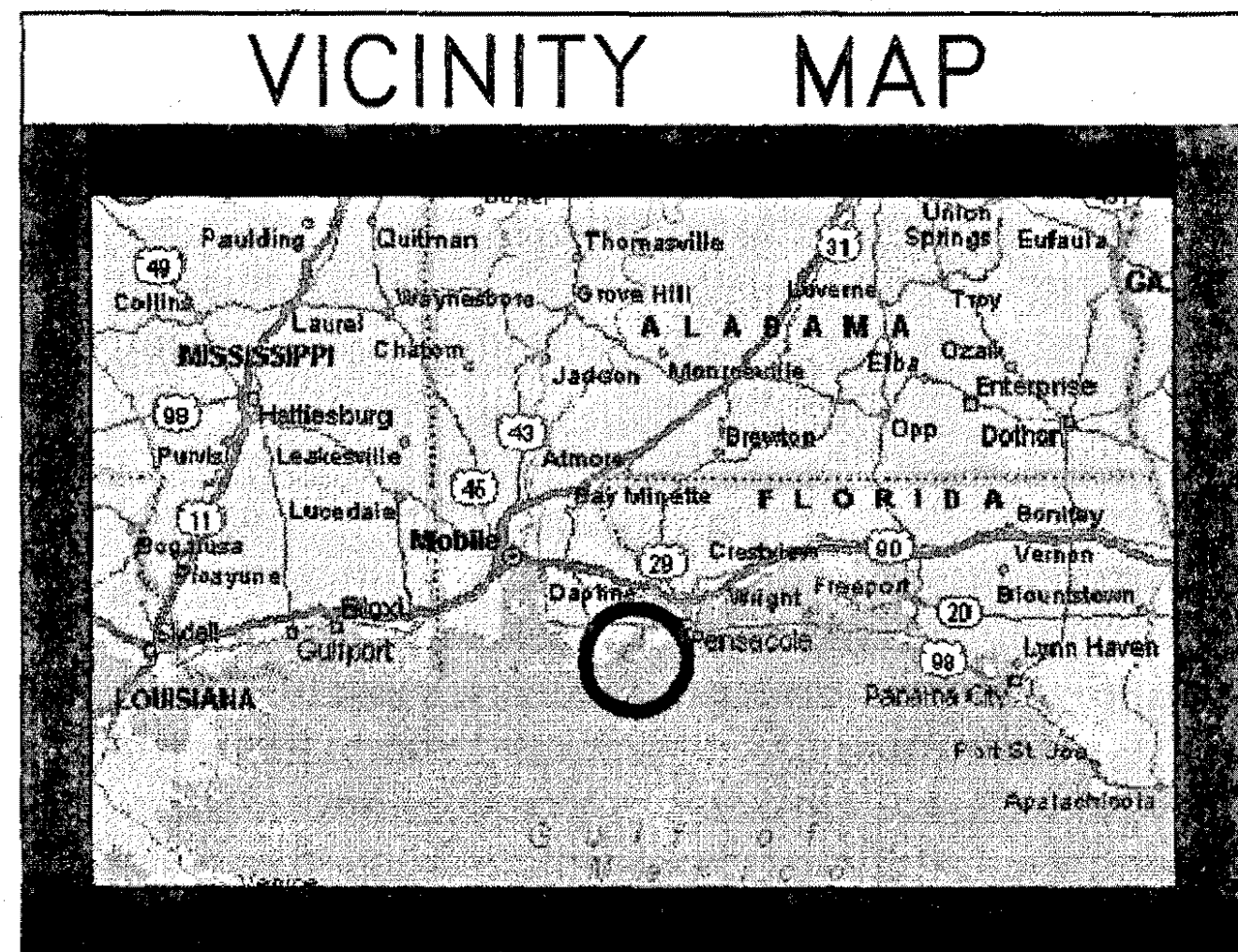


# A NEW RECREATION COMPLEX FOR THE City of Orange Beach alabama

**GOODWYN, MILLS & CAWOOD, INC.**  
**TERRY GRANT, PE**  
**BORDEN & MORRIS CONSULTING ENGINEERS, INC.**

ARCHITECTS, CIVIL ENGINEERS, AND LANDSCAPE ARCHITECTS  
 STRUCTURAL ENGINEER  
 PLUMBING, MECHANICAL, & ELECTRICAL ENGINEERS



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A NEW  
 RECREATION  
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 FOR THE  
 City of  
 Orange  
 Beach

6-1-019

Issue	date
Design Development	08/10/01
FINAL	08/17/01

drawn by: CGB, CED  
**TITLE SHEET,  
 INDEX TO  
 DRAWINGS  
 AND VICINITY  
 MAP**

**G1.01**  
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GENERAL

ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STANDARD BUILDING CODE (1999).

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.

ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.

CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.

DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.

THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL, MISCELLANEOUS METALS AND PREFABRICATED STEEL JOISTS.

ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.

OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF THE ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

FOOTINGS

ALL FOOTINGS SHALL BEAR 12" MINIMUM INTO ORIGINAL UNDISTURBED EARTH OR ON ENGINEERED SELECT FILL COMPACTED TO 95% OF MAXIMUM RELATIVE DENSITY BASED ON ASTM D-698. SUCH FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU GRANULAR SOILS UNLESS OTHERWISE NOTED. PERIMETER SHALL BE TO A MINIMUM DEPTH OF 12 INCHES BELOW EXISTING GRADE, OR 24 INCHES BELOW BOTTOM OF FLOOR SLAB, WHICHEVER IS DEEPER. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.

FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE BEARING CAPACITY OF 1600 PSF.

EXTERIOR FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 1'-8" BELOW FINISHED EXTERIOR GRADE.

NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE SOILS REPORT BY POPE ENGINEERING & TESTING LABORATORIES, INC. (DATED May 22, 2000), OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.

IN FOOTINGS, UNLESS OTHERWISE SHOWN, PROVIDE CORNER BARS AT ALL CORNERS SAME AS HORIZONTAL REINFORCEMENT.

BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.

WALL FOOTINGS, WHERE NOT SHOWN OTHERWISE, SHALL BE 12" THICK WITH A 8" SPREAD EACH SIDE OF WALL AND PROVIDE 1 #5 CONTINUOUS AT BOTTOM FOR EACH 8" OF FOOTING WIDTH.

WHERE 6" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.

ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

CONCRETE

CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS: FOOTINGS, FOUNDATION WALLS, SLABS.....3000 PSI CONCRETE FOR BLOCK FILL .....2000 PSI

A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK. CONCRETE MIX SHALL HAVE A MINIMUM OF 5% AIR ENTRAINMENT, U.N.O.

ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.

DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEG. HOOK WHERE 36 DIAMETER IS NOT POSSIBLE.

BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.

ADD 2-#5 BARS MINIMUM AROUND ALL OPENINGS (UNLESS OTHERWISE NOTED) AND EXTEND 24" BEYOND CORNER OF OPENING.

ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE PANELS WITH A MAXIMUM WIDTH OF 20' BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6 x 6 - W1.4 x W1.4 WELDED WIRE FABRIC. PLACE SLABS OVER VAPOR BARRIER AND OVER 4 INCHES OF POROUS FILL.

PROVIDE A #3 NOSING BAR IN ALL STAIR TREADS.

REFER TO DRAWINGS FOR TYPICAL CONSTRUCTION JOINT DETAILS. UNLESS NOTED IN DRAWINGS, ALL REINFORCEMENT SHALL BE CONTINUOUS THRU JOINTS AND EACH CONSTRUCTION JOINT SHALL BE KEVED.

FORMS, SCREDS, AND BEAMS SUPPORTING SUSPENDED CONCRETE SHALL BE CAMBERED 1/4 INCHES PER 10 FEET OF SPAN TO COMPENSATE FOR DEAD LOAD DEFLECTIONS.

THE EXTENT OF SUSPENDED SLAB POURS SHALL BE FROM CENTERLINE TO CENTERLINE OF SPANS AND SHALL NOT EXCEED 3000 SF OR 84' IN ANY ONE DIRECTION.

WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT FILLER WITH SEALANT.

WHERE INTERIOR MASONRY WALLS DO NOT BEAR ON A FOOTING PROVIDE A TYPICAL THICKENED SLAB (12" THICK X 16" WIDE) UNDER WALL. REINFORCE WITH 2- #4 CONTINUOUS. DOWEL WALL REINFORCING TO SLAB.

MASONRY (CMU)

ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2" X 3" MINIMUM. MASONRY SHALL BE PLACED IN RUNNING BOND PATTERN, UNLESS NOTED OTHERWISE.

CONCRETE FOR BLOCK FILL SHALL HAVE 3/8" INCH MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. MORTAR SHALL NOT BE USED FOR BLOCK FILL.

WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.

AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.

HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 86" O.C. MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION, UNLESS SCHEDULED OR SHOWN OTHERWISE. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS. WHERE STRUCTURAL STEEL COLUMNS OR BEAMS INTERRUPT THE CONTINUITY OF A BOND BEAM, DOWELS MATCHING BOND BEAM REINFORCEMENT SHALL BE WELDED TO THE STRUCTURAL STEEL TO PROVIDE CONTINUITY.

ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND LACING. LAP ALL SPLICES IN MASONRY 48 BAR DIAMETERS. PLACE ALL BARS SECURELY PRIOR TO GROUTING.

MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT FOR ALL MASONRY WALLS SHALL BE AS SCHEDULED, SEE DRAWINGS.

IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 18 IN. O.C. HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.

CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO A.S.T.M. DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.

MORTAR SHALL BE TYPE "S".

NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEG. F., UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.

ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.

UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS, MASONRY GROUTING SHALL COMPLY WITH THE PROVISIONS OF ACI 530.

ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT: MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FARTHER APART THAN 40 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER. CONSULT STRUCTURAL & ARCHITECTURAL DRAWINGS FOR LOCATIONS. VERTICAL CELLS EACH SIDE OF CONTROL JOINTS SHALL BE GROUTED AND REINFORCED WITH REBARS TO MATCH VERTICAL REINFORCEMENT USED THROUGHOUT THAT WALL. ONLY HORIZONTAL REBARS IN BOND BEAMS AT FLOORS AND AT ROOF LEVEL SHALL CONTINUE THROUGH CONTROL JOINTS. PROVIDE FULL HEIGHT HARD RUBBER KEY AT JOINT. WHERE JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

REINFORCING STEEL

ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-92 AND ACI STANDARD 318-95.

REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.

ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.

REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (D.B.A.) SHALL BE OF A WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE A.W.S. RECOMMENDATIONS.

ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEG. TURN OR A SEPARATE CORNER BAR. ALL SPLICES SHALL LAP A MINIMUM OF 36 BAR DIAMETERS (12" MINIMUM) IN CONCRETE, AND 48 DIAMETERS IN MASONRY.

WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.

COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:

- A. UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS) . . . . . 3 INCHES
B. SLABS ON GRADE . . . . . 2 INCHES
C. FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC.), BEAMS AND COLUMNS . . . . . 2 INCHES
D. STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH . . . . . 1 INCH
E. IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.

PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE STANDARD BUILDING CODE.

ALL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992, W/ YIELD STRENGTH OF 50 KSI.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.

STRUCTURAL STEEL PIPE COLUMNS SHALL CONFORM TO ASTM A501, GRADE B; YIELD STRESS = 36 KSI.

ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A36, UNO.

USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS AND A307 BOLTS FOR ALL OTHER CONNECTIONS. USE 3/4" DIAMETER MINIMUM.

PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.

ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES WITH A CVN OF 20 FOOT-POUNDS AT -20 DEGREES F., AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED.

ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF A "DIRECT TENSION INDICATOR." THE TURN-OF-NUT METHOD OR SNUG TIGHT CONDITION MAY ALSO BE USED. PROVIDE CARBONIZED WASHERS UNDER THE TURNED ELEMENT.

ALL STEEL JOISTS, JOIST GIRDERS, AND ASSOCIATED WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE." UNLESS SHOWN OTHERWISE, PROVIDE BRIDGING IN ACCORDANCE WITH THIS SPECIFICATION AS A MINIMUM. PROVIDE ADDITIONAL BRIDGING AS REQUIRED FOR DESIGN WIND UPLIFT INDICATED ON THE DRAWINGS. BRIDGING DESIGN SHALL BE BY FABRICATOR. JOIST FABRICATOR SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI). JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT AND HE SHALL SEAL AND SIGN ALL DESIGN CALCULATIONS AND JOISTS SHOP DRAWINGS. DESIGN SHALL COMPLY WITH ALL LOADING REQUIREMENTS INDICATED ON THE DRAWINGS AND NOTES. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ALL LOADINGS, DIMENSIONS, MEMBER FORCES, REACTIONS, MEMBER SIZES, WELD REQUIREMENTS AND JOINT DETAILS.

ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8" ANCHOR BOLTS.

WHERE JOISTS CAN NOT BEAR 2-1/2" INCHES ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2-1/2" INCHES MINIMUM BEARING ON BEAM.

CONCENTRATED LOADS SHALL NOT BE PLACED ON NOR HUNG FROM JOISTS UNLESS THEY ARE PLACED AT PANEL POINTS OR A BRACE (L1-1/2x1-1/2x1/8) IS INSTALLED BETWEEN THE LOAD AND PANEL POINT. CONCENTRATED LOADS NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR REVIEW.

ALL COMPLETE PENETRATION GROOVE WELDS CONTAINED IN JOINTS AND SPLICES SHALL BE TESTED 100 PERCENT EITHER BY ULTRASONIC TESTING OR BY RADIOGRAPHY.

SPECIAL INSPECTIONS AND TESTING OF WELDS AS REQUIRED BY THESE NOTES AND THE SPECIFICATIONS SHALL BE PROVIDED BY THE OWNER.

ALL BEAM CONNECTIONS NOT DETAILED OTHERWISE SHALL BE MADE USING AISC 7TH EDITION TABLE I "FRAMED BEAM CONNECTIONS" WITH THE MAXIMUM NUMBER OF BOLT ROWS SHOWN FOR THAT BEAM.

UNLESS SHOWN OTHERWISE PROVIDE 1/2" X 7" X 12" BEARING PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.

MECHANICAL ROOF TOP UNITS SHALL BE PLACED OVER ADDITIONAL OR SPECIAL JOISTS AS SHOWN ON DRAWINGS. THE WEIGHT, SIZE AND LOCATION OF ALL PROPOSED UNITS AND CURBS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION BEFORE FABRICATION OF STEEL.

FRAMES FOR ROOF & FLOOR OPENINGS AND SUPPORTS FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE INDICATED ON DRAWINGS FOR BID PURPOSES ONLY. UPON RECEIPT OF MECHANICAL SUBMITTALS, THE CONTRACTOR SHALL FURNISH STEEL SUPPLIER SUPPLEMENTARY DRAWINGS OR OTHER INFORMATION NECESSARY TO LAYOUT AND DETAIL THIS PORTION OF THE WORK. OTHER STEEL WORK SHALL NOT BE DELAYED BY THIS PORTION OF THE WORK. SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.

LIGHT GAGE METAL FRAMING

DESIGN, FABRICATION AND ERECTION OF LIGHT-GAGE METAL FRAMING SHALL COMPLY WITH REQUIREMENTS OF: AISC "MANUAL OF STEEL CONSTRUCTION", AWS "STRUCTURAL WELDING CODE", AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AND 1999 SBC.

FRAMING SHOWN ON PLANS ARE MINIMUM SIZES AND CONDITIONS. SUBSTITUTION OF FRAMING MEMBERS SHALL BE APPROVED BY ARCHITECT & ENGINEERS. THEY SHALL HAVE CAPACITY FOR GRAVITY LOADS AND LATERAL LOADS EQUAL TO OR BETTER THAN SPECIFIED FRAMING MEMBERS.

ALL COMPONENTS SHALL BE GALVANIZED ACCORDING TO REQUIREMENTS OF ASTM A-525 FOR MINIMUM G-60 COATING.

ALL 16 AND 18 GAGE STUDS, AND ALL TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A-446, WITH A MINIMUM YIELD OF 33 KSI FOR 18 GAGE AND 50 KSI FOR 16 GAGE, FOR STUDS AND 33 KSI FOR RUNNERS, BRIDGING, END CLOSURES AND ACCESSORIES.

ALL WELDS SHALL BE ACCOMPLISHED USING 1/8" INCH AWS TYPE 6013 OR 7014 ROD WITH A WELDING HEAT OF 80 TO 110 AMPERES DEPENDING ON THE GAGE OF MATERIAL AND THE FIT OF THE PARTS. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.

ADEQUATE LATERAL BRACING MUST BE PROVIDED DURING CONSTRUCTION.

UNLESS NOTED OTHERWISE, METAL FRAMING MEMBERS @ EXTERIOR WALLS SHALL BE 16 GAGE FOR STUDS AND 18 GAGE FOR TOP AND BOTTOM RUNNER.

RUNNER TRACKS: INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. UNLESS INDICATED OTHERWISE, SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" O.C. SPACING FOR NAIL OR POWER-DRIVEN FASTENERS PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACK.

FASTENERS: FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.

FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

6", 16ga. (XC STUD) - Sx = .859 in3 lx = 2.760 in4

8", 16ga. (XC STUD) - Sx = 1.300 in3 lx = 5.542 in4

STUD SECTIONS USED AS RAFTERS OR JOISTS OR POST AT HOLD DOWN ANCHORS SHALL BE UNPUNCHED.

STRUCTURAL DESIGN LOADS

SEISMIC: ZONE 0

WIND: BASIC WIND SPEED = 100 MPH

SOILS: NET ALLOWABLE SOIL PRESSURE = 1600 PSF.

ROOF: DL = 20 PSF LL = 20 PSF(WITH REDUCTION FOR TRIBUTARY AREA AS PER THE STANDARD BLDG. CODE)

MECH. MEZZANINE: DL = 47 PSF LL = 125 PSF

1 1/2" DEEP METAL ROOF DECK

STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI.

STEEL ROOF DECK SHALL BE 1.5" DEEP X 22 GAUGE, TYPE "F", INTERMEDIATE RIB DECK. THE FOLLOWING MINIMUM PROPERTIES MUST BE SATISFIED:

Fy = 33 KSI
I = .121 IN 4/FT.
Sp = .112 IN 3/FT.
Sn = .121 IN3/FT.

WELD STEEL ROOF DECK TO SUPPORTING FRAMING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACINGS:

- (4) WELDS PER 36-INCH SHEET TO ALL SUPPORTS PERPENDICULAR TO DECK CORRUGATIONS.
12" O.C. TO ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.
6" O.C. OVER ALL DRAG STRUTS, SHEAR WALLS, BRACED FRAMES AND ROOF PERIMETER.

ATTACH SIDE SEAMS WITH 1.5" LONG WELDS AT 18" O.C. MAXIMUM BETWEEN ADJACENT PIECES OF DECKING OR #10 TEK SCREWS @ 12" O.C.

DESIGN ALLOWABLE DIAPHRAGM SHEAR = 285 LBS/FT.

PROVIDE A 2" MINIMUM BEARING AND A 2-INCH LAP AT THE SPLICE POINTS OF ALL PIECES OF DECK.

WHERE POSSIBLE, ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS REQUIRED FOR ONE OR TWO SPAN CONDITIONS.

NOTHING SHALL BE SUSPENDED FROM THE METAL DECK.

LONG SPAN METAL ROOF DECK AT GYMNASIUM

STEEL ROOF DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI.

STEEL ROOF DECK SHALL BE 6" DEEP X 18 GAUGE LONG SPAN. THE FOLLOWING MINIMUM PROPERTIES MUST BE SATISFIED:

Fy = 40 KSI
I = 7.348 IN 4/FT.
Sp = 2.235 IN 3/FT.
Sn = 2.248 IN3/FT.

SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DECK CRITERIA INCLUDING ACOUSTICAL BOTTOM PAN AND REQUIRED FINISH.

WELD STEEL ROOF DECK TO SUPPORTING FRAMING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT THE FOLLOWING SPACINGS:

- 12" MAX. O.C. AT EACH SUPPORT; PROVIDE DOUBLE ROW OF WELDS AT EACH TRUSS.
12" O.C. TO ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.
12" O.C. OVER ALL DRAG STRUTS, SHEAR WALLS, BRACED FRAMES AND ROOF PERIMETER.
PROVIDE CLOSER WELD SPACING WHERE INDICATED ON DETAILS.

ATTACH SIDE SEAMS WITH 1.5" LONG WELDS AT 24" O.C. MAXIMUM BETWEEN ADJACENT PIECES OF DECKING OR #12 TEK SCREWS @ 24" O.C.

DESIGN ALLOWABLE DIAPHRAGM SHEAR = 250 LBS/FT.

PROVIDE A 3" MINIMUM BEARING.

WHERE POSSIBLE, ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AS REQUIRED FOR ONE OR TWO SPAN CONDITIONS.

NOTHING SHALL BE SUSPENDED FROM THE METAL DECK.

METAL FLOOR FORMDECK

STEEL FLOOR DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE, SDI.

STEEL FLOOR DECK SHALL BE AS INDICATED ON THE DRAWINGS.

ATTACH DECK TO SUPPORTING FRAMING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS SPACED AS FOLLOWS:

- 12" O.C. TO SUPPORTS PERPENDICULAR TO DECK CORRUGATIONS
12" O.C. TO ALL SUPPORTS PARALLEL TO DECK CORRUGATIONS.

WHERE POSSIBLE, ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE, THE DECK SHALL MEET THE LOADING CRITERIA FOR THE SPAN CONDITION. THE CONTRACTOR SHALL PROVIDE HEAVIER GAUGE DECK AND/OR SHORING AS REQUIRED.

DECK SHALL HAVE A MINIMUM BEARING LENGTH OF 2".

SPECIAL INSPECTIONS

SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER FOR THE FOLLOWING TYPES OF WORK:

CONCRETE PLACEMENT: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.

CONCRETE REINFORCING STEEL: DURING THE PLACING OF REINFORCING STEEL.

BOLTS INSTALLED IN CONCRETE: PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS

ALL STRUCTURAL WELDING, INCLUDING THE WELDING OF REINFORCING STEEL AS FOLLOWS:

- A. ALL SHOP WELDING MUST BE INSPECTED.
B. ALL FIELD WELDING. PERIODIC INSPECTION IS PERMITTED.
C. IN ADDITION TO ABOVE, ALL FULL PENETRATION WELDS SHALL HAVE ULTRASONIC TESTING.

HIGH-STRENGTH BOLTING: SUCH INSPECTIONS MAY BE PERFORMED ON A PERIODIC BASIS.

STRUCTURAL MASONRY:

DURING PLACING OF MASONRY UNITS, PLACEMENT OF REINFORCEMENT, INSPECTION OF GROUT SPACE, IMMEDIATELY PRIOR TO CLOSING OF CLEAN OUT, AND DURING ALL GROUTING OPERATIONS, PERIODIC INSPECTION IS PERMITTED.



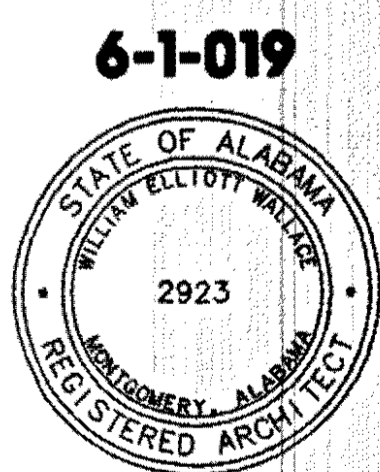
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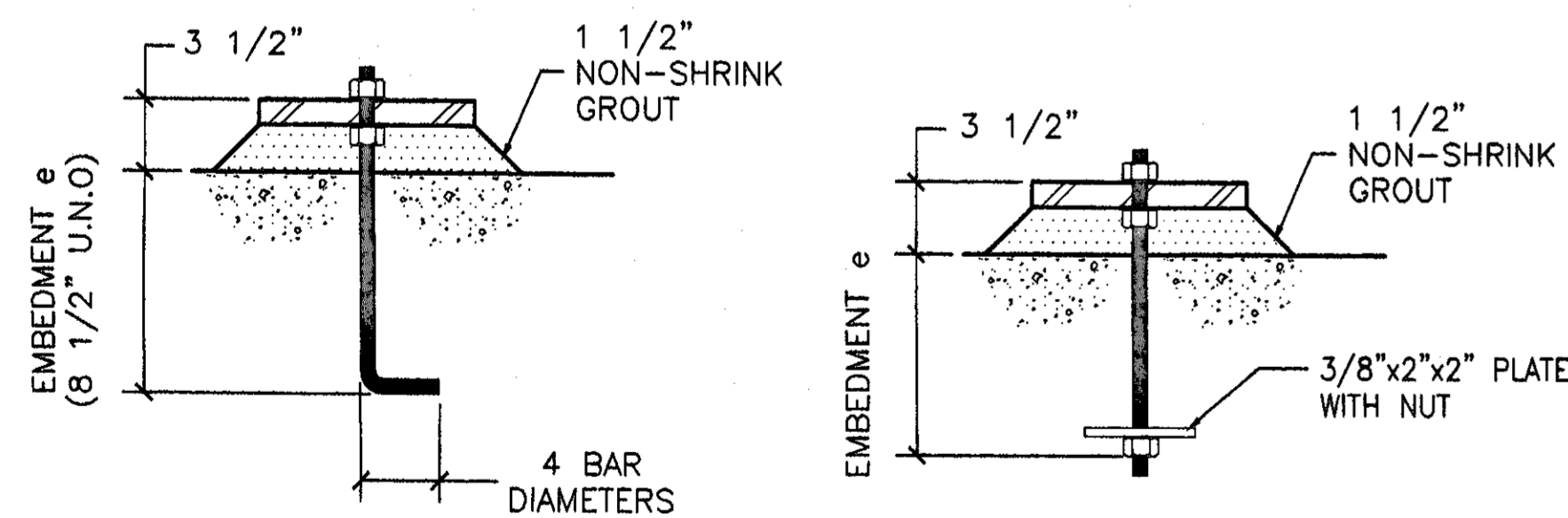
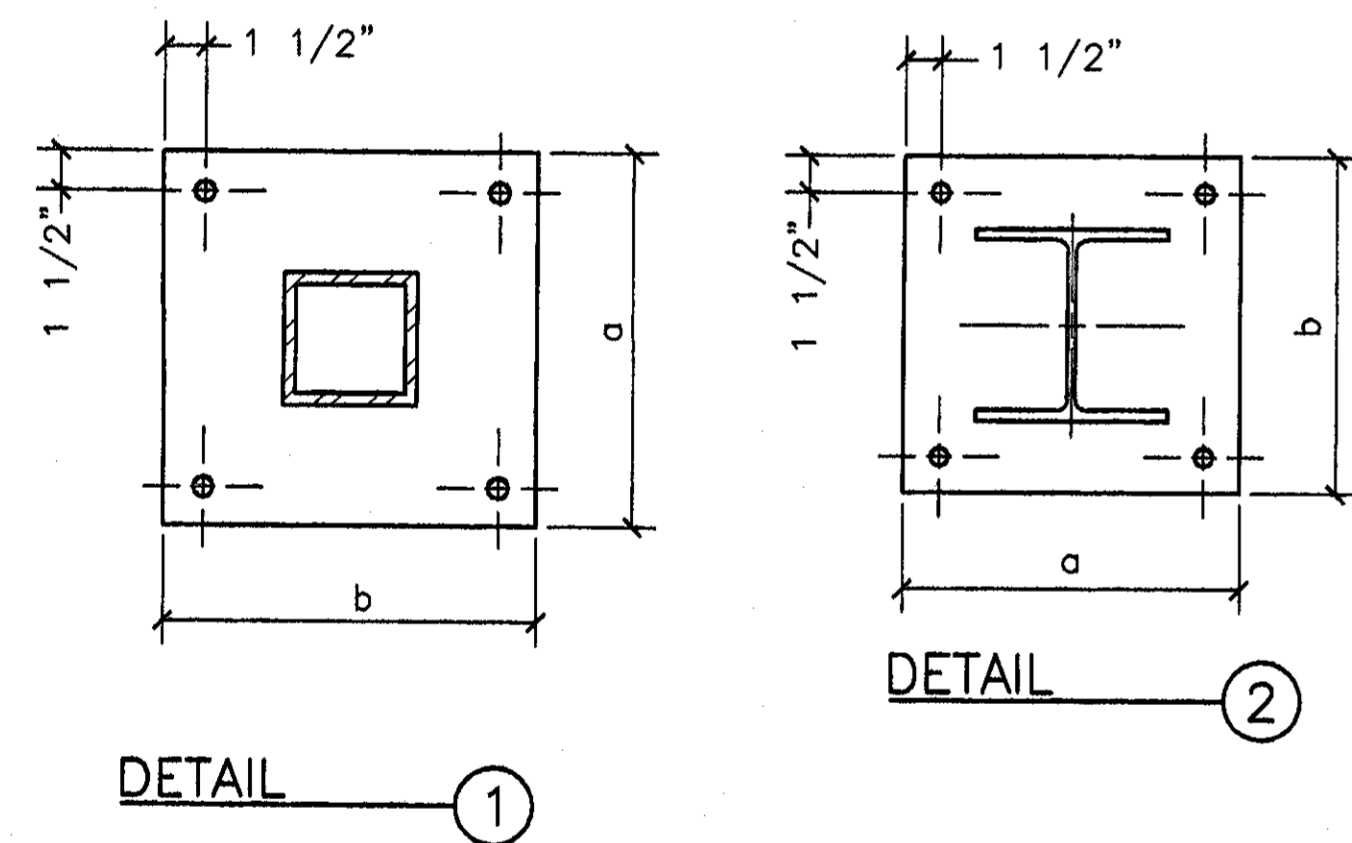
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BASE PLATE SCHEDULE								
MARK	DETAIL	PLATE DIMENSIONS				ANCHOR BOLTS		
		t	a	b	c	DIA.	e	TYPE
BP-1	①	1"	12"	12"	-	3/4"	-	1
BP-2	①	3/4"	12"	12"	-	3/4"	-	1
BP-3	①	3/4"	11"	11"	-	3/4"	-	1
BP-4	①	3/4"	10"	10"	-	3/4"	-	1
BP-5	②	3/4"	14"	14"	-	3/4"	-	1
BP-6	②	3/4"	14"	10"	-	3/4"	-	1
BP-7	①	1"	13"	13"	-	3/4"	-	1
BP-8	①	3/4"	13"	9"	-	3/4"	-	1

**BASE PLATE SCHEDULE NOTES:**

- ALL PLATES ARE A36 STEEL. ALL ANCHOR BOLTS ARE A307.
- NON-SHRINK GROUT SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI.
- ALL BOLTS SHALL BE THREADED FOR FULL HEIGHT ABOVE TOP OF CONCRETE AND HAVE DOUBLE NUTS WITH WASHERS.
- CENTER ALL COLUMNS ON PLATES UNLESS NOTED OTHERWISE.
- ALL COLUMNS SHALL BE WELDED TO BASE PLATES WITH FILLET WELDS UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE AS PER AISC TABLE J2.4, 3/16" MINIMUM.
- ALL ANCHOR BOLTS ARE 3/4" DIA., TYPE 1. UNLESS NOTED OTHERWISE.
- ACTUAL COLUMN SHAPE. REFER TO STRUCTURAL PLANS FOR COLUMN TYPE. COLUMN SHAPES SHOWN ON DETAILS MAY NOT COORESPOND WITH



ANCHOR BOLT TYPE 1

ANCHOR BOLT TYPE 2

4" MASONRY VENEER LINTEL SCHEDULE		
WALL OPENING SIZE	MINIMUM SIZE	REMARKS
0'-0" TO 4'-0"	L3 1/2X3 1/2X1/4	BEAR 6" EACH END
4'-1" TO 7'-0"	L6X4X5/16	LLV, BEAR 8" MIN. EACH END
7'-1" TO 12'-0"	L7X4X3/8	LLV, BEAR 12" MIN. EACH END

**4" MASONRY VENEER LINTEL SCHEDULE NOTES:**

- COORDINATE LINTEL FINISHES WITH ARCHITECTURAL DRAWINGS & SPECIFICATIONS.
- PROVIDE LINTELS WITH LONGER HORIZONTAL LEG WHERE INDICATED TO CLOSE WALL CAVITY ON ARCHITECTURAL DETAILS. SIZES SHOWN ABOVE ARE MINIMUM.

FOOTING SCHEDULE													
MARK	WIDTH	LENGTH	MIN. THICK	CROSSWISE REINF.				LENGTHWISE REINF.				NOTES	
				NO.	SIZE	LENGTH	SPA.	NO.	SIZE	LENGTH	SPA.		
F1	2'-0"	CONT.	12"	-	#3	1'-6"	48"	3	#5	CONT.	EQ.		
F2	3'-0"	CONT.	12"	-	#3	2'-6"	36"	3	#5	CONT.	EQ.		
F3	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ.	3	#5	2'-6"	EQ.		
F4	3'-6"	3'-6"	12"	4	#5	3'-0"	EQ.	4	#5	3'-0"	EQ.		
F5	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ.	4	#5	3'-6"	EQ.		
F6	4'-6"	4'-6"	12"	5	#5	4'-0"	EQ.	5	#5	4'-0"	EQ.		
F7	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ.	5	#5	5'-6"	EQ.		
F8	5'-6"	5'-6"	12"	6	#5	5'-0"	EQ.	6	#5	5'-0"	EQ.		
F9	7'-0"	7'-0"	14"	7	#5	6'-6"	EQ.	7	#5	6'-6"	EQ.		
F10	3'-0"	5'-0"	12"	5	#5	2'-6"	EQ.	3	#5	4'-6"	EQ.	NOT CENTERED UNDER TS COL. SEE PLAN	
F11	4'-0"	5'-6"	12"	6	#5	3'-6"	EQ.	4	#5	5'-0"	EQ.	NOT CENTERED UNDER TS COL. SEE PLAN	

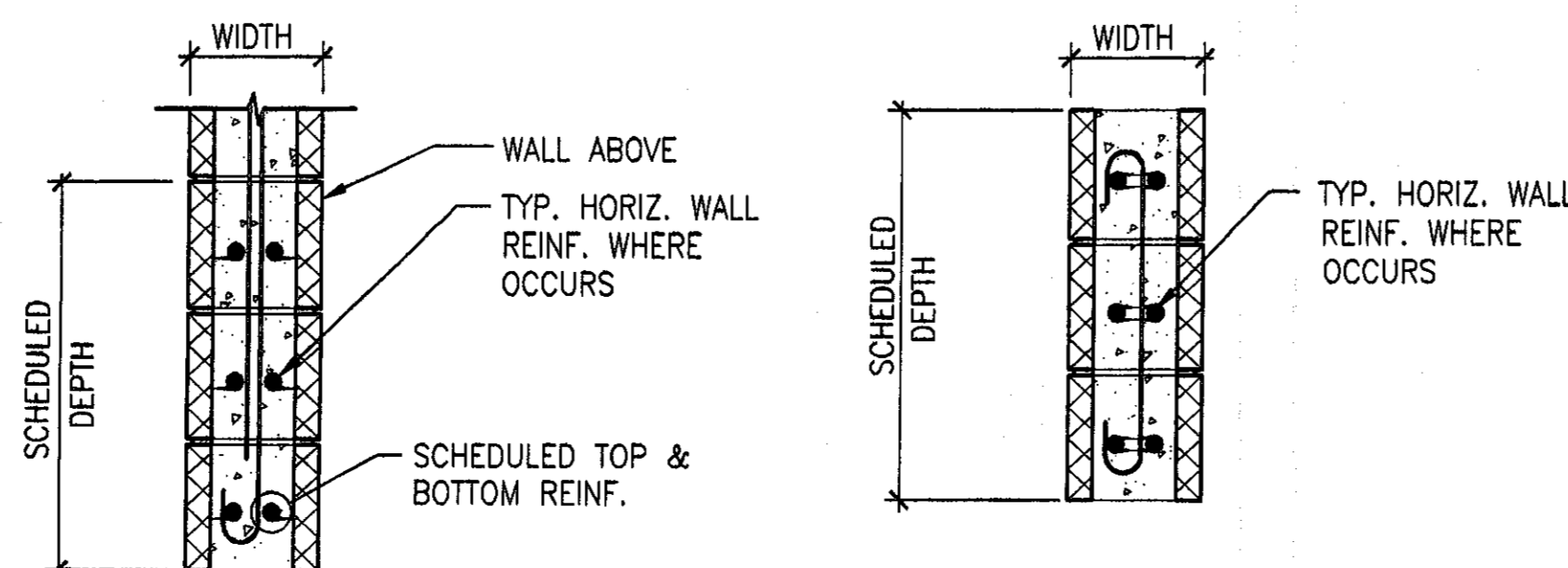
**FOOTING SCHEDULE NOTES:**

- CENTER ALL FOOTINGS ON WALLS & COLUMNS, UNLESS SHOWN OR NOTED OTHERWISE.
- WHERE WALL FOOTINGS INTERSECT SPOT FOOTINGS, ALL FOOTINGS SHALL BE PLACED MONOLITHICALLY. WALL FOOTING REINFORCING SHALL CONTINUE THROUGH COLUMN SPOT FOOTINGS.
- DESIGN ALLOWABLE BEARING PRESSURE = 1600 PSF.

MASONRY BEAM SCHEDULE (LINTEL)						
MARK	WIDTH	DEPTH	REINFORCEMENT		NOTES	
			HORIZONTAL	VERTICAL		
MB-1	8"	8"	2- #5 BOTTOM	-	-	
MB-2	8"	16"	2- #5 TOP & BOTTOM	-	-	
MB-3	8"	24"	2- #5 TOP & BOTTOM	-	-	

**MASONRY BEAM SCHEDULE NOTES:**

- VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED IN MASONRY BEAM, U.N.O. VERTICAL REINF. ENDS WITH STANDARD ACI 180 DEGREE HOOK AND 48 BAR DIAMETER LAP WITH VERTICAL REINF. ABOVE BEAM. PROVIDE 180 DEGREE HOOK AT TOP ALSO WHERE NO WALL OCCURS ABOVE BEAM.
- GROUT BEAMS SOLID FOR DEPTH SHOWN IN BEAM SCHEDULE PLUS AS PER DETAILS AND STRUCTURAL NOTES.
- TOP BARS SHALL EXTEND THE GREATER OF 24 INCHES OR 48 BAR DIAMETER BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MIDSPAN. BOTTOM BARS SHALL EXTEND 24 INCHES INTO SUPPORTS AND BE SPLICED OVER SUPPORTS, WHEN NECESSARY.
- GROUT SIDES OF OPENINGS SOLID 1"/FT. OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR OPENINGS UP TO 8'-0" SPAN, 2 CELLS FOR UP TO 12'-0" SPAN, ETC., UNLESS NOTED OTHERWISE. SEE PLAN AND SCHEDULES WHERE SPECIAL MASONRY COLUMNS OCCUR AT JAMBS, BELOW BEAM BEARING AND OTHER LOCATIONS.
- AT MECHANICAL OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS. NO MECHANICAL, ELECTRICAL, PLUMBING OR OTHER OPENINGS SHALL BE PLACED IN WALLS BELOW STEEL OR MASONRY BEAM BEARING.
- REINFORCING INDICATED IN BEAM SCHEDULE IS IN ADDITION TO SCHEDULED WALL HORIZONTAL AND VERTICAL REINFORCING.
- SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY.
- AT WALLS NOT SHOWN ON STRUCTURAL DRAWINGS, FOR OPENINGS UP TO 4'-0" CLEAR, USE 8" DEEP MASONRY BEAM W/(2)-#4 @ BOTTOM; FOR ALL OPENINGS UP TO 6'-8" CLEAR, USE 16" DEEP MASONRY BEAM W/(2)-#5 @ BOTTOM; FOR OPENINGS UP TO 10'-0" CLEAR, USE 24" DEEP MASONRY BEAM W/(2)-#5 @ BOTTOM. THESE SHALL BE CONSIDERED AS MINIMUM. UNUSUAL CONDITIONS SHALL BE REPORTED TO THE A/E.
- WALL ABOVE SCHEDULED BEAM SHALL HAVE MINIMUM REINFORCING AS PER STRUCTURAL NOTES, TYPICAL UNLESS NOTED OTHERWISE.



MASONRY WALL SCHEDULE										
MARK	THICK	VERTICAL REINF.			HORIZONTAL REINF.			GROUT	NOTES	
		NO.	SIZE	SPA.	NO.	SIZE	SPA.			
MW-1	8"	-	#5	48" O.C.	2	#5	96" O.C.	AT REBAR ONLY		
MW-2	8"	-	#5	32" O.C.	2	#5	96" O.C.	AT REBAR ONLY		
MW-3	8"	-	#5	72" O.C.	2	#5	96" O.C.	AT REBAR ONLY		
MW-4	8"	-	#5	16" O.C.	2	#5	96" O.C.	GROUT SOLID		

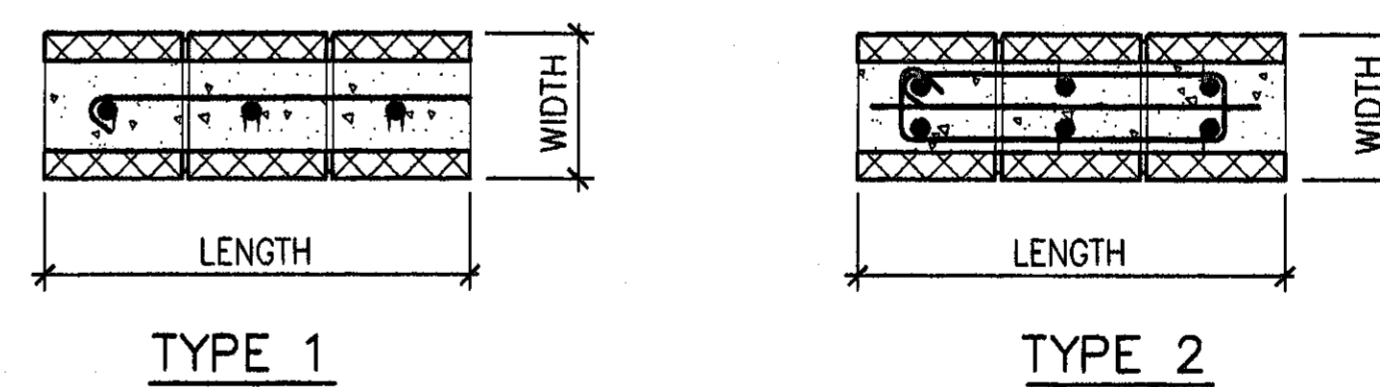
**MASONRY WALL SCHEDULE NOTES:**

- LOCATE VERTICAL REINFORCING EACH SIDE OF ALL OPENINGS, EACH SIDE OF MASONRY CONTROL JOINTS AND AT ALL ENDS AND CORNERS IN ADDITION TO SCHEDULED SPACING. SEE PLAN WHERE SPECIAL MASONRY COLUMNS OCCUR AT JAMBS. DOWEL VERTICAL REINF. TO FOOTING OR THICKENED SLAB, WHERE OCCURS.
- PLACE HORIZONTAL REINF. AT MEZZANINE FLOOR LEVEL. SEE PLANS, SECTIONS AND SCHEDULES FOR SPECIAL HORIZONTAL REINF. AT ROOFS AND OVER OPENINGS.
- SEE 01/S4 FOR CORNER BAR DETAILS AND AT INTERSECTING WALLS.
- USE WALL TYPE MW-1 FOR 8" CMU EXTERIOR WALLS AND WALL TYPE MW-3 FOR 8" CMU INTERIOR WALLS WHERE NO MARK IS SHOWN ON PLANS.
- SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY.
- WHERE ONLY ONE (1) LAYER OF VERTICAL REINF. OCCURS, THIS SHALL BE CENTERED IN THE WALL. WHERE TWO (2) LAYERS OF VERTICAL REINFORCING ARE SCHEDULED, LOCATE CENTER OF REBAR AT 2 1/2" FROM EACH OUTSIDE FACE.
- FILL WALLS AND CAVITIES SOLID W/ CONCRETE BELOW GRADE.

MASONRY COLUMN SCHEDULE						
MARK	SIZE		REINFORCEMENT		TYPE	NOTES
	LENGTH	WIDTH	VERTICAL	HORIZ. TIES		
MC-1	16"	8"	(2) #5	-	1	-
MC-2	24"	8"	(3) #5	-	1	-
MC-3	24"	24"	(4) #5	#2 @ 8" O.C.	-	COORDINATE W/ PREFAB CANOPY COLUMNS, WHERE OCCUR
MC-4	8"	8"	(1) #5	-	1	-
MC-5	16"	16"	(4) #5	#2 @ 16" O.C.	2	-

**MASONRY COLUMN SCHEDULE NOTES:**

- HORIZONTAL WALL REINFORCEMENT SHALL RUN CONTINUOUS THROUGH COLUMNS.
- GROUT ALL REINFORCED CELLS AND VOIDS SOLID.
- VERTICAL REINFORCING IS CONTINUOUS FULL HEIGHT OF WALL, U.N.O. DOWEL TO FOOTING
- SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY.
- MASONRY COLUMNS AND REINFORCING SHALL EXTEND FULL HEIGHT TO FLOOR OR ROOF DIAPHRAGM, U.N.O.



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**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

**6-1-019**

STATE OF ALABAMA  
 WILLIAM ELLIOTT WELLS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue date  
 Construction Dwg 8.17.01

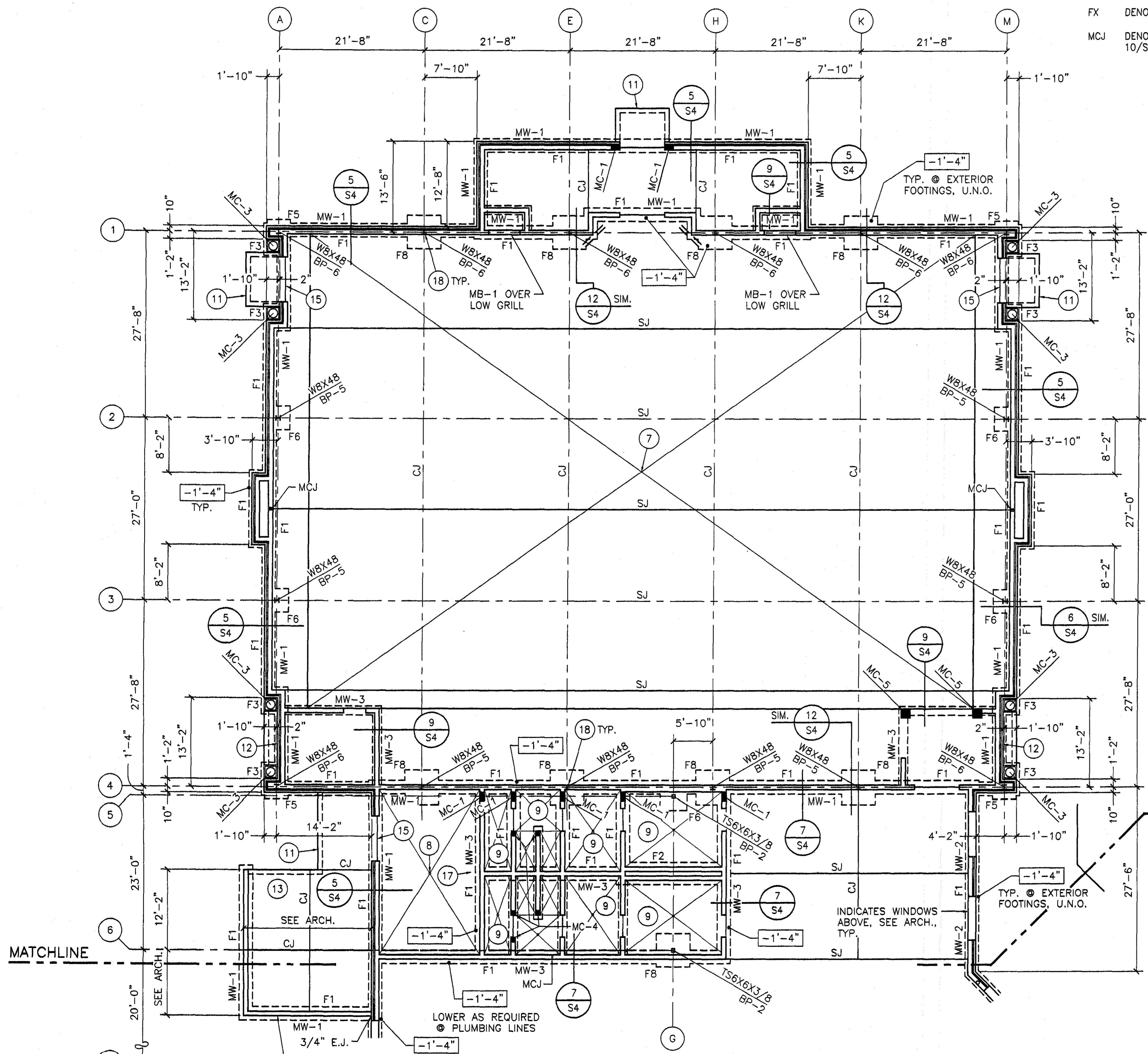
drawn by: SNA  
**STRUCTURAL SCHEDULES**

**95% SUBMITTAL**

**S1.2**

sheet of

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 Montgomery, Alabama 36104



**LEGEND:**

- CJ DENOTES SLAB CONSTRUCTION JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- SJ DENOTES SLAB SAW JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- FX DENOTES FOOTING. SEE SCHEDULE.
- MCJ DENOTES MASONRY CONTROL JOINT. SEE DETAIL 10/S4.
- MW-X DENOTES CMU WALL TYPE. SEE SCHEDULE ON SHEET S1.2.
- MC-X DENOTES MASONRY COLUMN (PILASTER). SEE SCHEDULE ON SHEET S1.2.
- 0'-0" DENOTES DISTANCE FROM FINISHED FLOOR TO TOP OF FOOTING.
- == DENOTES (2)#4X48" LONG REBAR, CENTERED IN SLAB @ RE-ENTRANT CORNERS, WHERE JOINT DOES NOT OCCUR.

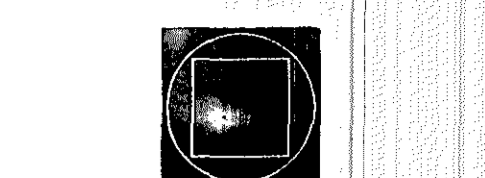
**PLAN NOTES: (APPLIES TO S2.1 & S2.2)**

- 1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 2. SEE SHEET S1 FOR STRUCTURAL NOTES.
- 3. UNLESS NOTED OTHERWISE, SLAB ON GRADE IS 4" THICK W/ 6X6, W1.4XW1.4 W.W.F. OVER VAPOR BARRIER OVER 4" THICK POROUS FILL. SEE DETAILS 2 & 3/S4 FOR SLAB JOINT CRITERIA. TOP OF SLAB ELEVATION = 0'-0" (ASSUMED)
- 4. SEE DETAIL 1/S4 FOR TYPICAL FOOTING & WALL INTERSECTION DOWEL DETAIL.
- 5. SEE DETAIL 4/S4 FOR TYPICAL FOOTING STEP DETAIL. STEP FOOTING AS REQUIRED TO MAINTAIN A MIN. DEPTH OF 8" FROM EXTERIOR FINISHED GRADE TO TOP OF FOOTING. TOP OF FOOTING ELEVATIONS SHOWN SHALL BE CONSIDERED MIN. DEPTH.
- 6. CENTER FOOTINGS UNDER COLUMNS, UNLESS NOTED OTHERWISE.
- 7. DEPRESS SLAB FOR FLOORING SYSTEM @ ALTERNATE ONLY. SEE ARCH. DRAWINGS & SPECIFICATIONS FOR EXTENT.
- 8. SLOPE FLOOR SLAB TO DRAINS, TYPICAL.
- 9. DEPRESS SLAB AS REQUIRED FOR FLOOR FINISH AT BATHROOMS, SHOWERS, LOCKERS, & OTHER AREAS AS REQUIRED. COORDINATE WITH ARCH. DRAWINGS & SPECIFICATIONS.
- 10. SEE ARCHITECTURAL DRAWINGS FOR RAISED WOOD PLATFORM WITH WOOD SLEEPERS, SECURELY ANCHORED TO FLOOR SLAB @ 16" MAX. O.C., AND 2X FRAMING @ 16" O.C.
- 11. PROVIDE 8" WIDE TURNDOWN SLAB EDGE, 8" BELOW GRADE W/ #4 CONTINUOUS @ PORCH SLAB EDGE, TYPICAL.
- 12. PROVIDE 3/8" PEJ CONTINUOUS WITH SEALANT WHERE EXTERIOR CONCRETE SLABS ABUT WALLS, TYPICAL.
- 13. PROVIDE 6" THICK CONCRETE SLAB WITH 6X6, W2.1XW2.1 W.W.F. SEE MECHANICAL WHERE ADDITIONAL "HOUSEKEEPING" PADS ARE REQUIRED AT EQUIPMENT.
- 14. PROVIDE 4" THICK CONCRETE SLAB WITH 6X6, W1.4XW1.4 W.W.F. AT EXTERIOR PORCH AND ENTRY SLABS. SEE ARCHITECTURAL DRAWINGS FOR JOINT PATTERN.
- 15. CAP INTERIOR AND EXTERIOR SLABS OVER CMU FOUNDATION WALLS @ DOORS. SEE ARCHITECTURAL DETAILS.
- 16. COORDINATE MASONRY COLUMNS WITH PREFAB. CANOPY COLUMNS. PROVIDE ANCHOR BOLTS AS REQUIRED. CANOPY DESIGN BY OTHERS. SEE ARCHITECTURAL DRAWINGS & SPECIFICATIONS.
- 17. SEE ARCHITECTURAL DRAWINGS FOR SHIPS LADDERS @ MEZZANINE.
- 18. SEE DETAIL 11/S4 FOR TYPICAL COLUMN TO CMU WALL ANCHORAGE.
- 19. SEE ARCHITECTURAL DETAILS FOR CMU COVER AROUND PORCH COLUMNS. FILL CMU W/ CONCRETE AND PROVIDE HORIZONTAL MASONRY REINFORCING @ 16" O.C. SEE DETAIL 6/S4 FOR SIMILAR DETAIL AT COLUMN BASE.

**BID ITEM 1 FOUNDATION PLAN**

SCALE: 1/8"=1'-0"

PROVIDE BOND BEAM W/(2) #5 CONT. @ TOP OF SCREEN WALL SEE ARCH. FOR HEIGHTS (4'-8" MAX.)



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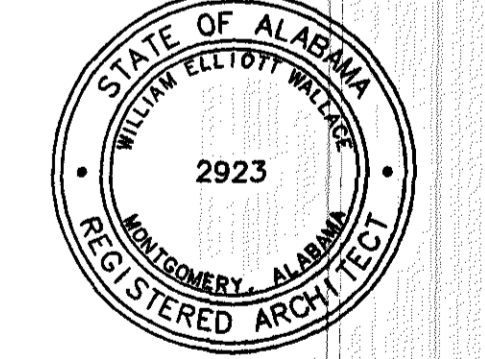
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FOR THE  
**City of Orange Beach**  
Alabama

**6-1-019**



Issue	date
Construction Dwg	8.17.01

drawn by: SWA  
**BID ITEM 1 FOUNDATION PLAN**

95% SUBMITTAL

**S2.1**  
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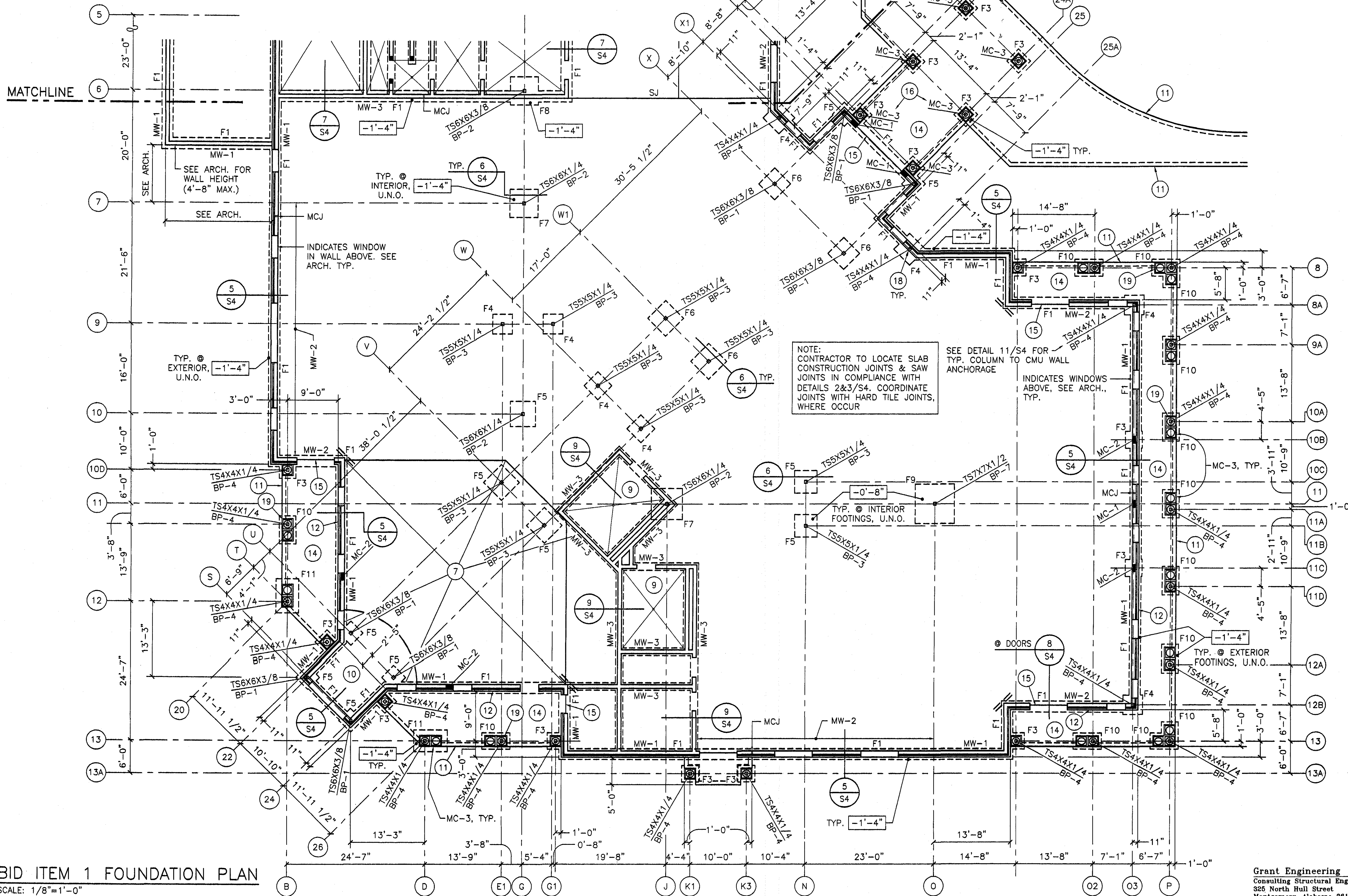
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325 North Hull Street

**LEGEND:**

- CJ DENOTES SLAB CONSTRUCTION JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- MW-X DENOTES CMU WALL TYPE. SEE SCHEDULE ON SHEET S1.2.
- MCJ DENOTES MASONRY CONTROL JOINT. SEE DETAIL 10/S4.
- SJ DENOTES SLAB SAW JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- MC-X DENOTES MASONRY COLUMN (PILASTER). SEE SCHEDULE ON SHEET S1.2.
- DENOTES (2)#4X48" LONG REBAR, CENTERED IN SLAB @ RE-ENTRANT CORNERS, WHERE JOINT DOES NOT OCCUR.
- FX DENOTES FOOTING. SEE SCHEDULE ON SHEET S1.2.
- 0'-0" DENOTES DISTANCE FROM FINISHED FLOOR TO TOP OF FOOTING.

**PLAN NOTES:**

- - CIRCLED NOTES ARE KEYED TO PLAN
- SEE SHEET S2.1 FOR PLAN NOTES.



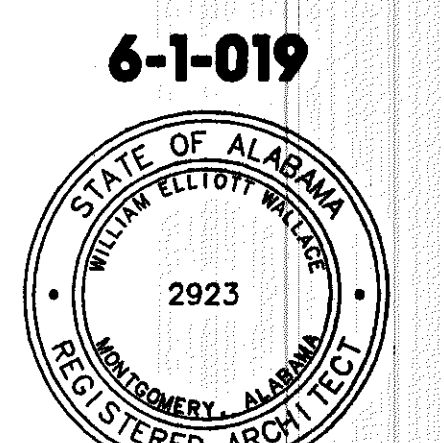
**BID ITEM 1 FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

**Grant Engineering**  
Consulting Structural Engineer  
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Phone: (334) 269-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**



Issue	Date
Construction Dwg	8.17.01

drawn by: SWA  
**BID ITEM 1 FOUNDATION PLAN**

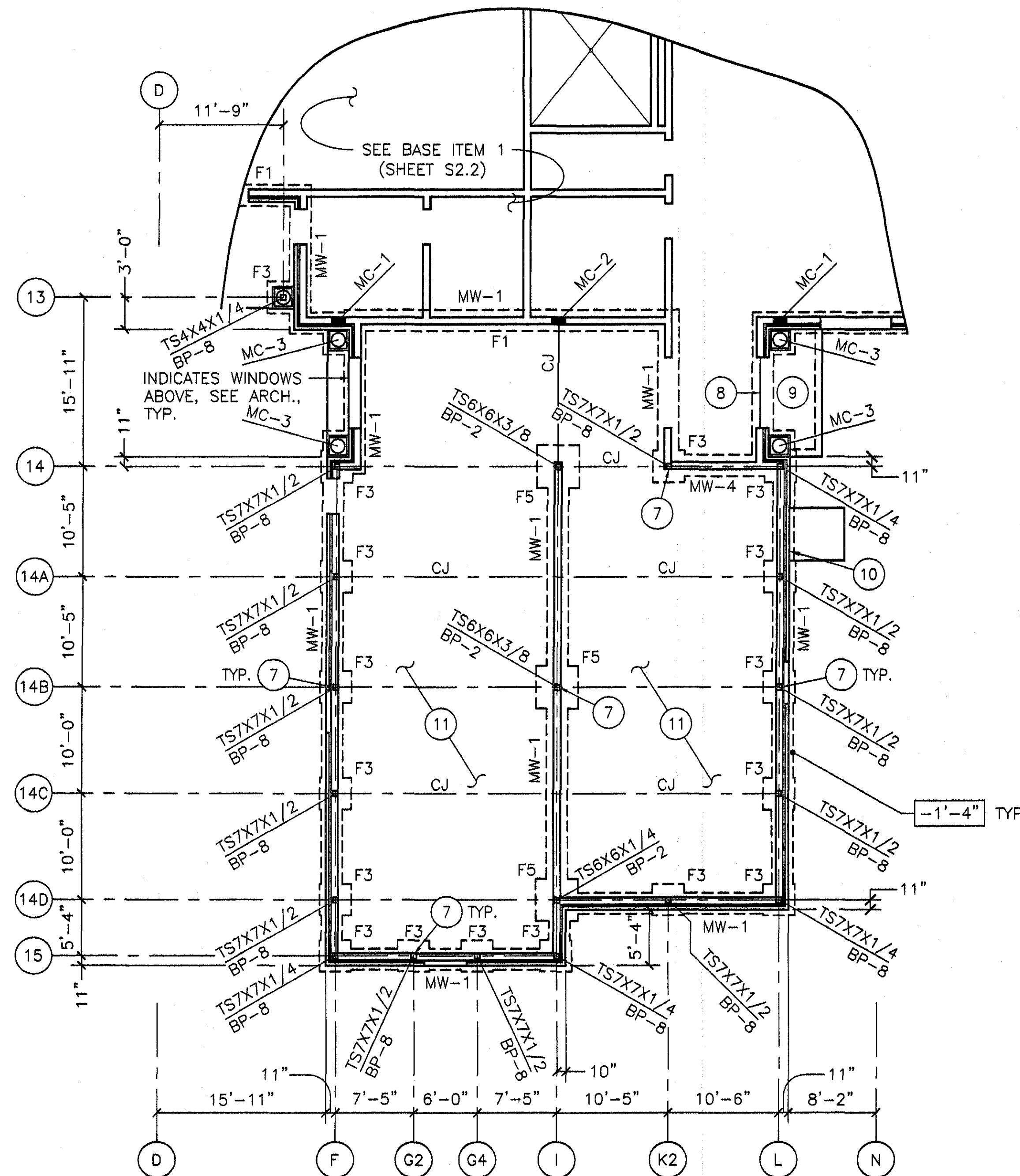
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**S2.2**  
sheet of xx

**LEGEND:**

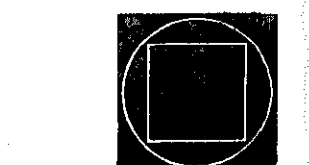
- CJ DENOTES SLAB CONSTRUCTION JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- MW-X DENOTES CMU WALL TYPE. SEE SCHEDULE ON SHEET S1.2.
- SJ DENOTES SLAB SAW JOINT. SEE TYPICAL DETAIL ON SHEET S4.
- MC-X DENOTES MASONRY COLUMN (PILASTER). SEE SCHEDULE ON SHEET S1.2.
- FX DENOTES FOOTING. SEE SCHEDULE ON SHEET S1.2.
- 0'-0" DENOTES DISTANCE FROM FINISHED FLOOR TO TOP OF FOOTING.

**PLAN NOTES: (APPLIES S2.3 ONLY)**

- - CIRCLED NOTES ARE KEYED TO PLAN
- 1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 2. SEE SHEET S1 FOR STRUCTURAL NOTES.
- 3. UNLESS NOTED OTHERWISE, SLAB ON GRADE IS 4" THICK W/ 6X6, W1.4XW1.4 W.W.F. OVER VAPOR BARRIER OVER 4" THICK POROUS FILL. SEE DETAILS 2 & 3/S4 FOR SLAB JOINT CRITERIA. TOP OF SLAB ELEVATION = 0'-0" (ASSUMED)
- 4. SEE DETAIL 1/S4 FOR TYPICAL FOOTING & WALL INTERSECTION DOWEL DETAIL.
- 5. SEE DETAIL 4/S4 FOR TYPICAL FOOTING STEP DETAIL. STEP FOOTING AS REQUIRED TO MAINTAIN A MIN. DEPTH OF 8" FROM EXTERIOR FINISHED GRADE TO TOP OF FOOTING. TOP OF FOOTING ELEVATIONS SHOWN SHALL BE CONSIDERED MIN. DEPTH.
- 6. CENTER FOOTINGS UNDER COLUMNS, UNLESS NOTED OTHERWISE.
- 7. SEE DETAIL 11/S4 FOR TYPICAL COLUMN TO CMU WALL ANCHORAGE.
- 8. CAP INTERIOR AND EXTERIOR SLABS OVER CMU FOUNDATION WALLS @ DOORS. SEE ARCHITECTURAL DETAILS.
- 9. PROVIDE 4" THICK CONCRETE SLAB WITH 6X6, W1.4XW1.4 W.W.F AT EXTERIOR PORCH AND ENTRY SLABS. SEE ARCHITECTURAL DRAWINGS FOR JOINT PATTERN.
- 10. PROVIDE 3/8" PEJ CONTINUOUS WITH SEALANT WHERE EXTERIOR CONCRETE SLABS ABUT WALLS, TYPICAL.
- 11. DEPRESS SLAB AS REQUIRED FOR FLOOR FINISH SYSTEM. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS.



**BID ITEM 2 FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"



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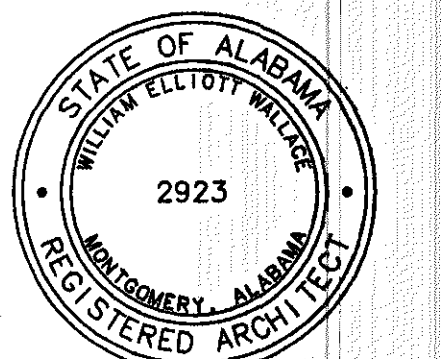
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A NEW  
RECREATION  
COMPLEX  
FOR THE  
City of  
Orange  
Beach  
Alabama

6-1-019



Issue	Date
Construction Dwg	8.17.01

drawn by: SWA  
**BID ITEM 2  
FOUNDATION  
PLAN**

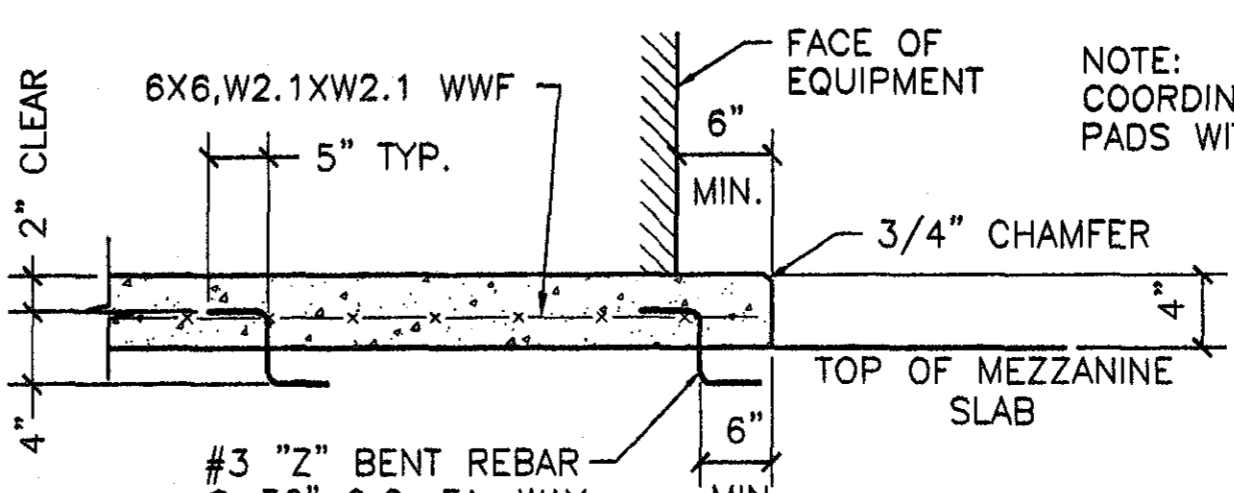
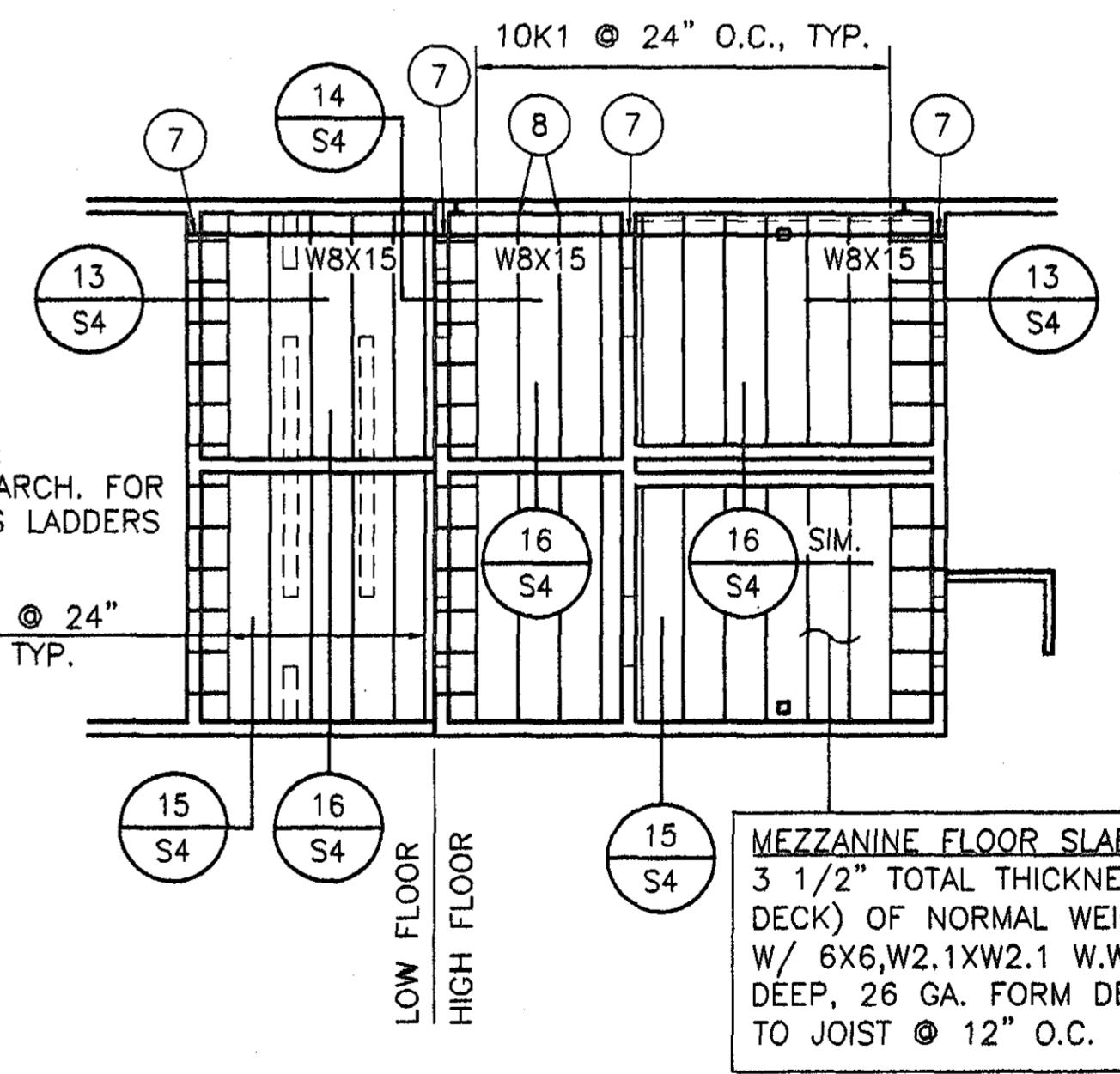
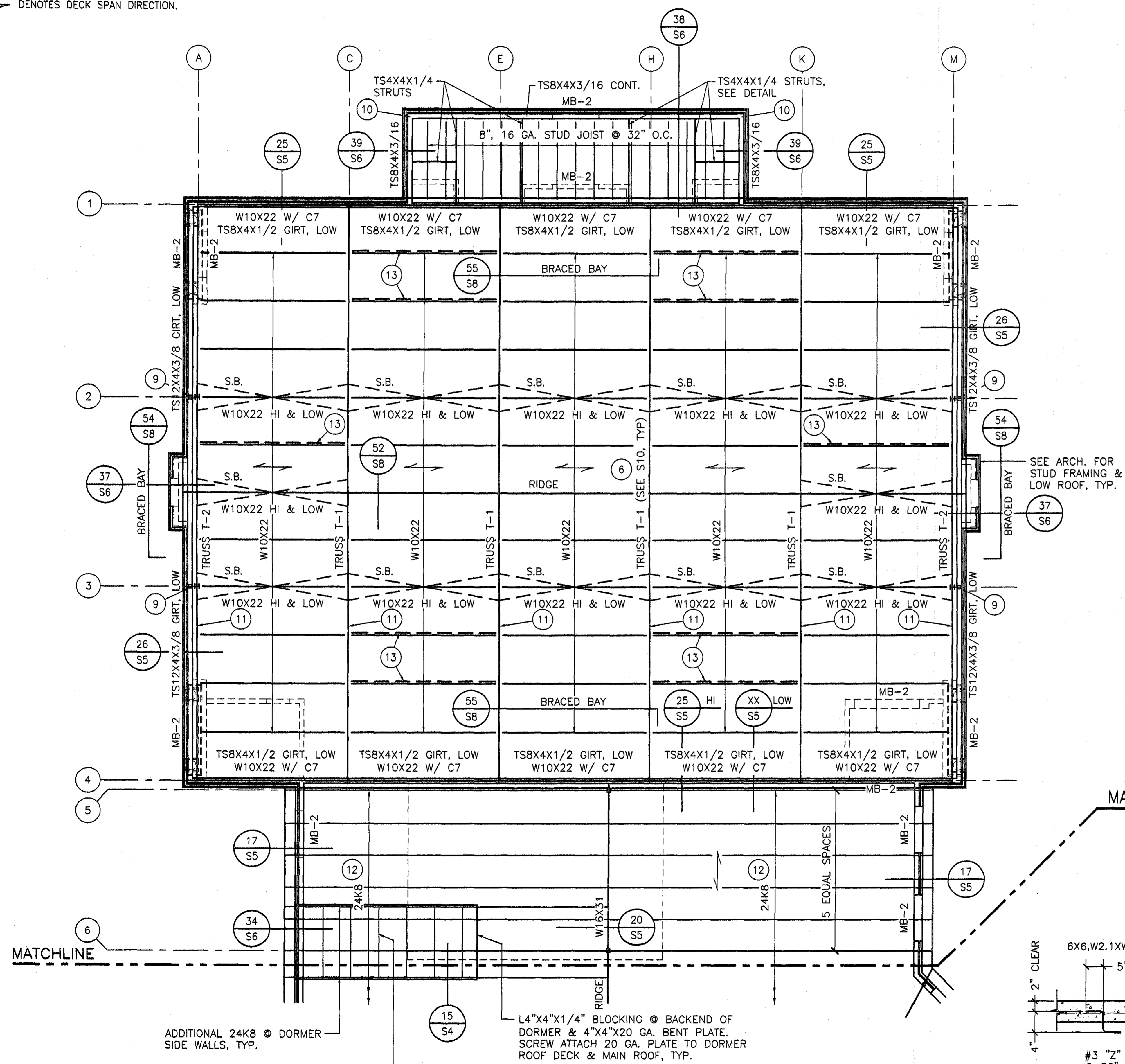
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**S2.3**  
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**LEGEND:**

- S.B. DENOTES DENOTES TRUSS "SWAY BRACING". SEE DETAIL 51/S8.
- T-X DENOTES STEEL TRUSS TYPE. SEE SHEET S10
- MB-X DENOTES MASONRY BEAM (LINTEL). SEE SCHEDULE ON SHEET S1.2.
- DENOTES DECK SPAN DIRECTION.

**PLAN NOTES: (APPLIES TO S3.1 & S3.2)**

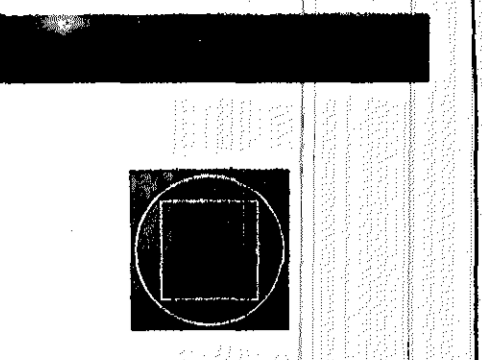
- - CIRCLED NOTES ARE KEYED TO PLAN
- 1. SEE ARCHITECTURAL DRAWINGS & FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.
- 2. SEE SHEET S1.1 FOR STRUCTURAL NOTES.
- 3. REFER TO DETAILS 21 & 22/S5 FOR TYPICAL ROOF & FLOOR OPENING DETAILS.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF FRAMING HEIGHTS & ROOF SLOPE. STRUCTURAL STEEL DETAILER SHALL DETERMINE ALL OTHER BEAM HEIGHTS FROM THE INFORMATION PROVIDE & THE BUILDING GEOMETRY.
- 5. THE STEEL DETAILER/FABRICATOR SHALL COORDINATE ALL STEEL HEIGHTS & DETAILING WITH THE BEARING SEAT DIMENSIONS & SLOPE OF THE OPEN WEB JOIST.
- 6. LONG SPAN DECK OVER GYMNASIUM. COORDINATE TYPE AND PATTERN W/ ARCHITECTURAL DRAWINGS & SPECIFICATIONS. SEE STRUCTURAL NOTES ON SHEET S1.1 FOR MIN. STRUCTURAL PROPERTIES & WELDING REQUIREMENTS. SEE PLAN NOTE 11. DO NOT HANG ANYTHING FROM DECK.
- 7. PROVIDE 7"x7"x5/8" BEAM BEARING PLATE W/(2) 5/8"x8" HEADED STUD ANCHORS (H.S.A.). WELD BEAM TO PLATE W/ 3" OF 1/4" WELD EACH SIDE.
- 8. PROVIDE S5 TYPE EXTENDED TOP CHORD, SOP 1/2" FROM GYMNASIUM WALL.
- 9. TS 5"x5" IN STUD WALL, SEE DETAIL 54/S8.
- 10. PROVIDE 1/4" END PLATES & WELD INTERSECTING TS GIRTS @ CORNER.
- 11. PROVIDE 2 ROWS OF 3/4" PUDDLE WELDS @ TOP OF TRUSS. SPACE WELDS @ 6" O.C. ALONG EACH ROW.
- 12. PROVIDE BRIDGING AS PER SJI REQUIREMENTS. PROVIDE ADDITIONAL BRIDGING AS PER JOIST SUPPLIERS DESIGN FOR WIND LOADS. DESIGN SHALL BE FOR MINIMUM NET UPLIFT OF 6 PSF OVER ROOF, PLUS MINIMUM NET UPLIFT OF 15 PSF ON 9 FOOT WIDE STRIP @ EAVES, RAKES, & EACH SIDE OF RIDGE.
- 13. PROVIDE W10X22 @ TRUSS BOTTOM CHORD FOR BASKETBALL GOAL SUPPORT. PROVIDE 3/8" SHEAR TAB W/(2) BOLTS @ EACH END. GOAL MANUFACTURER SHALL PROVIDE SUPPLEMENTAL FRAMING AS REQUIRED.
- 14. SEE SHEET S1.2 FOR MASONRY VENEER LINTEL SCHEDULE.
- 15. LOW BEAM SUPPORTS FOLDING PARTITION. SEE ARCHITECTURAL DETAIL 14/A4.03 & D-D/A6.03. CONNECT BEAM TO COLUMN W/ 3/8" PLATE & 4 BOLTS. BEAR ON MASONRY WALL W/ 7"x12"x1/2" BEARING PLATE W/(2) 3/4"x12" H.S.A. WELD BEAM TO PLATE.
- 16. PROVIDE TYPICAL BEARING PLATE (SEE DETAIL 17/S5) EMBEDDED ON TOP OF WALL & WELD TS STUBS TO PLATE, ALL AROUND W/ 3/16" WELD. PROVIDE MOMENT RESISTING CONNECTION AS PER 2/S3.3 @ TOP OF STUB COLUMNS.



**BID ITEM 1 ROOF FRAMING PLAN**  
SCALE: 1/8"=1'-0"

**MEZZANINE FRAMING PLAN**  
SCALE: 1/8"=1'-0"

**TYPICAL EQUIPMENT PAD DETAIL**



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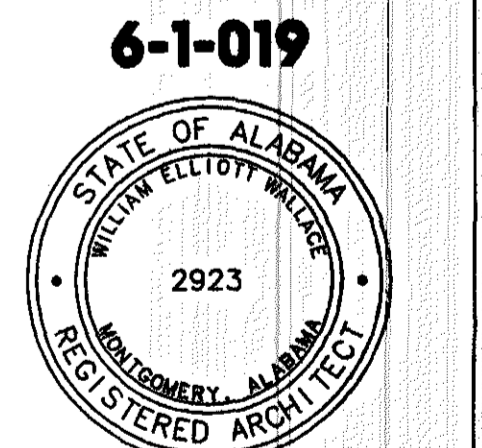
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**A NEW RECREATION COMPLEX**  
FOR THE  
**City of Orange Beach**  
Alabama



Issue	Date
Construction Dwg	8.17.01

drawn by: SWA  
**BID ITEM 1 ROOF FRAMING PLAN**

**95% SUBMITTAL**  
**S3.1**  
sheet of

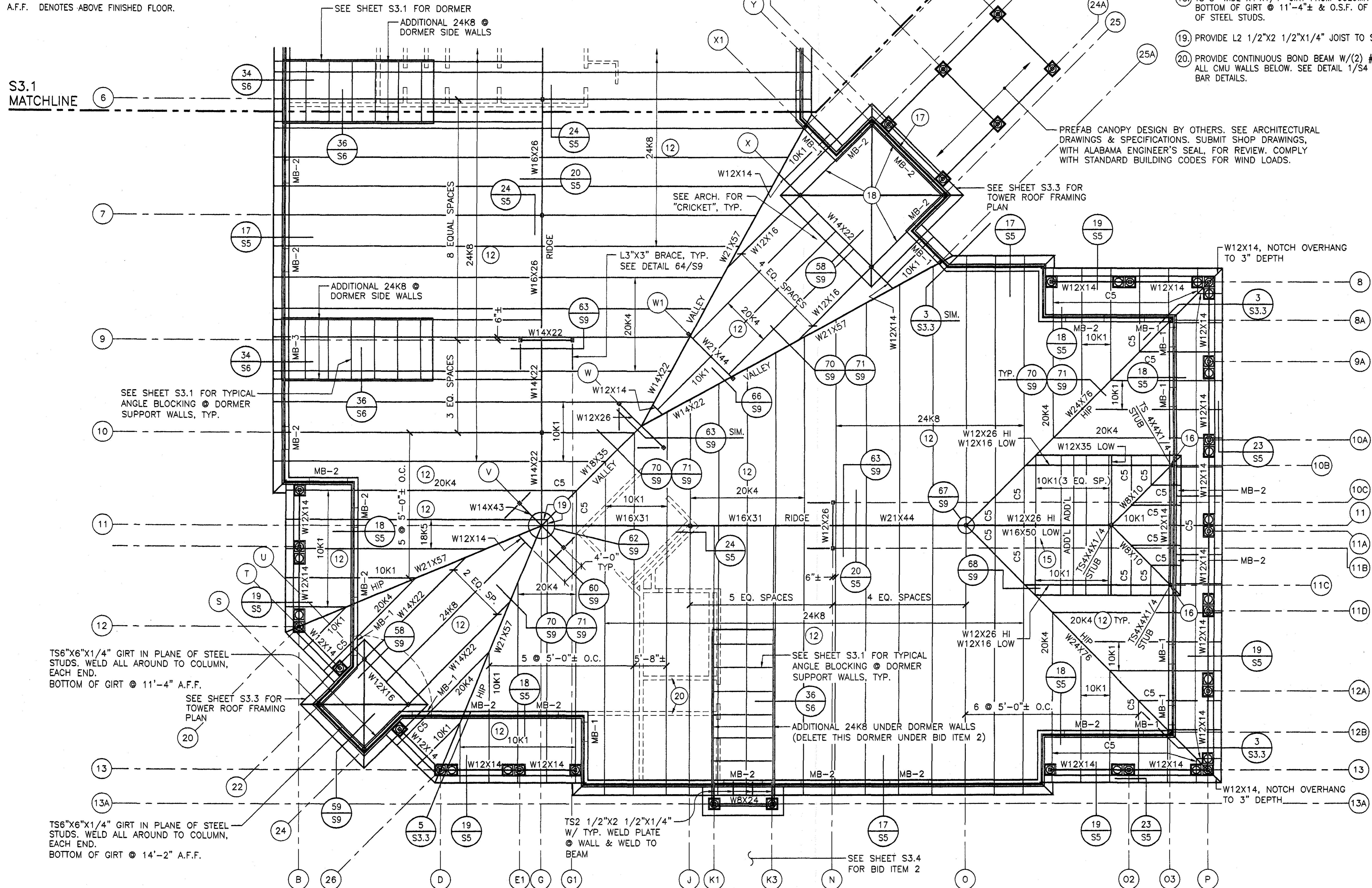
Grant Engineering  
Consulting Structural Engineer  
325 North Hull Street

**LEGEND:**

- C5 DENOTES C5X6.7 W/ L3"x3"x1/4"x4" LONG SEAT, NOTCHED TO PROPER DEPTH.
- MB-X DENOTES MASONRY BEAM (LINTEL). SEE SCHEDULE ON SHEET S1.2.
- O.S.F. DENOTES OUTSIDE FACE.
- A.F.F. DENOTES ABOVE FINISHED FLOOR.

**PLAN NOTES:**

- - CIRCLED NOTES ARE KEYED TO PLAN
- SEE SHEET S3.1 FOR PLAN NOTES 1 THROUGH 16.
- 17. PROVIDE L7"x4"x3/8" (LLV) CURVED ANGLE TO SUPPORT PRECAST. BEAR 12" EACH END.
- 18. TS 8" WIDE X4"x1/4" GIRT FROM COLUMN TO COLUMN. BOTTOM OF GIRT @ 11'-4"± & O.S.F. OF GIRT @ O.S.F. OF STEEL STUDS.
- 19. PROVIDE L2 1/2"x2 1/2"x1/4" JOIST TO SUPPORT DECK.
- 20. PROVIDE CONTINUOUS BOND BEAM W/(2) #5 @ TOP OF ALL CMU WALLS BELOW. SEE DETAIL 1/54 FOR CORNER BAR DETAILS.



PREFAB CANOPY DESIGN BY OTHERS. SEE ARCHITECTURAL DRAWINGS & SPECIFICATIONS. SUBMIT SHOP DRAWINGS, WITH ALABAMA ENGINEER'S SEAL, FOR REVIEW. COMPLY WITH STANDARD BUILDING CODES FOR WIND LOADS.

SEE SHEET S3.3 FOR TOWER ROOF FRAMING PLAN

SEE ARCH. FOR "CRICKET", TYP.

L3"x3" BRACE, TYP. SEE DETAIL 64/S9

ADDITIONAL 24K8 @ DORMER SIDE WALLS

SEE SHEET S3.1 FOR TYPICAL ANGLE BLOCKING @ DORMER SUPPORT WALLS, TYP.

TS6"x6"x1/4" GIRT IN PLANE OF STEEL STUDS. WELD ALL AROUND TO COLUMN, EACH END. BOTTOM OF GIRT @ 11'-4" A.F.F.

SEE SHEET S3.3 FOR TOWER ROOF FRAMING PLAN

TS6"x6"x1/4" GIRT IN PLANE OF STEEL STUDS. WELD ALL AROUND TO COLUMN, EACH END. BOTTOM OF GIRT @ 14'-2" A.F.F.

TS2 1/2"x2 1/2"x1/4" W/ TYP. WELD PLATE @ WALL & WELD TO BEAM

SEE SHEET S3.4 FOR BID ITEM 2

**BID ITEM 1 ROOF FRAMING PLAN**

SCALE: 1/8"=1'-0"

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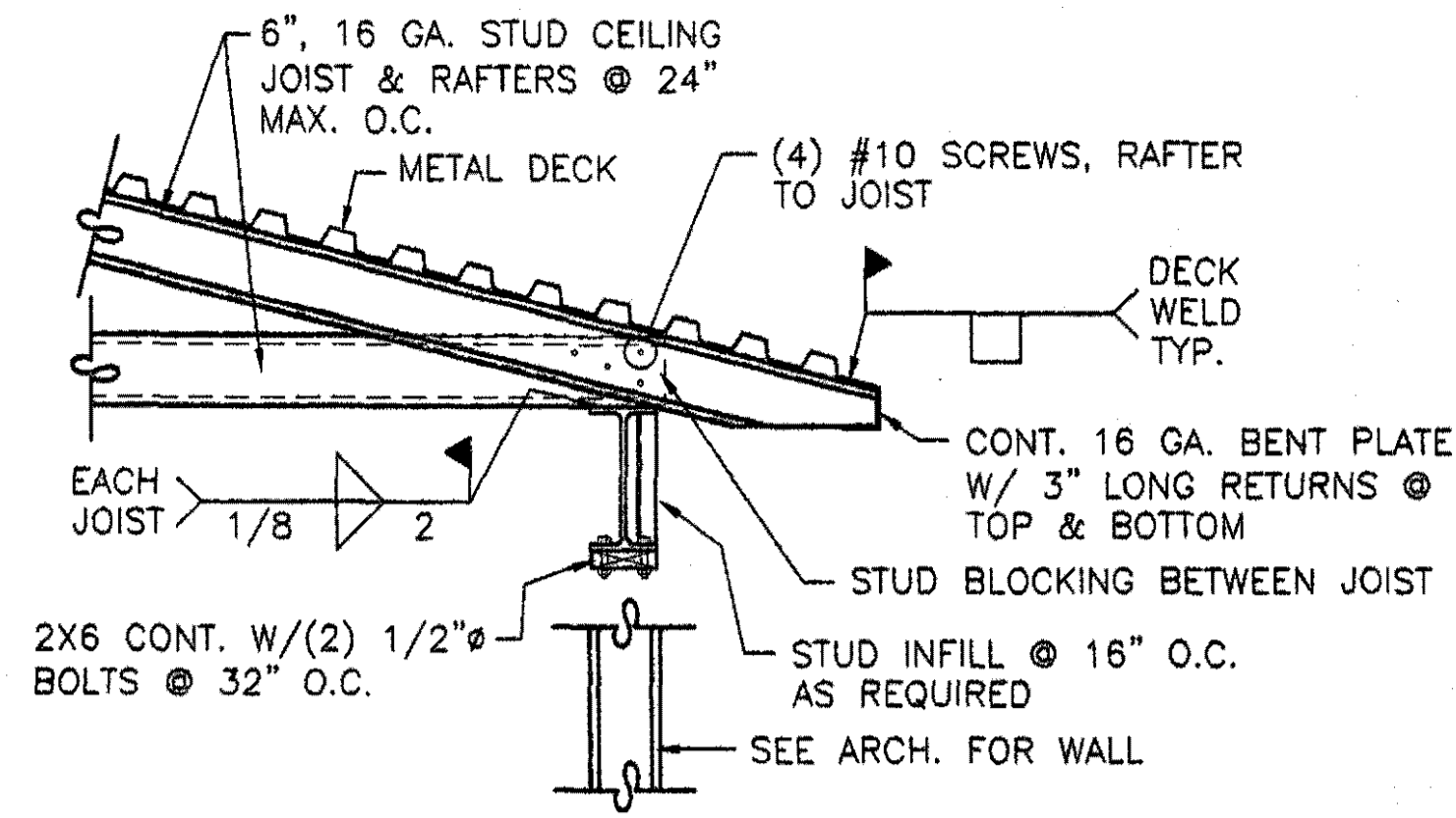
**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

**6-1-019**  
STATE OF ALABAMA  
WILHELM ELLIOTT BEARD  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

**Issue date**  
Construction Dwg 0.17.01  
**BID ITEM 1 ROOF FRAMING PLAN**

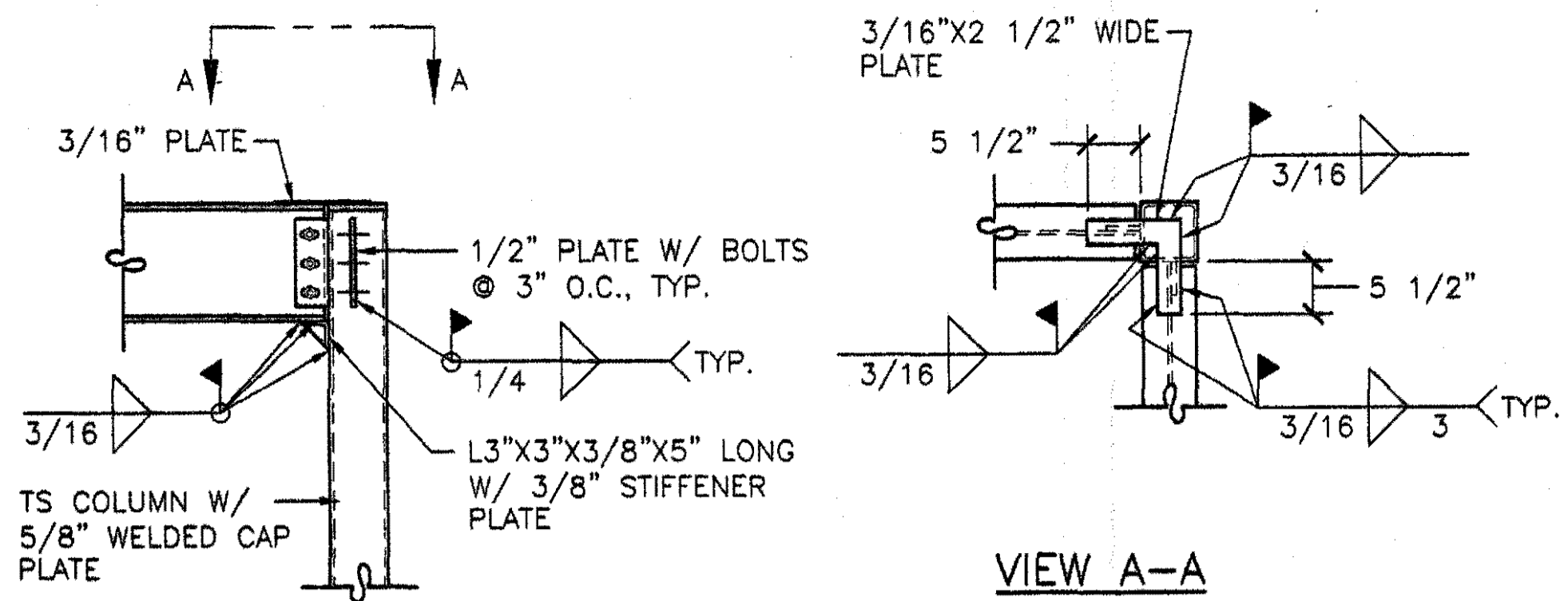
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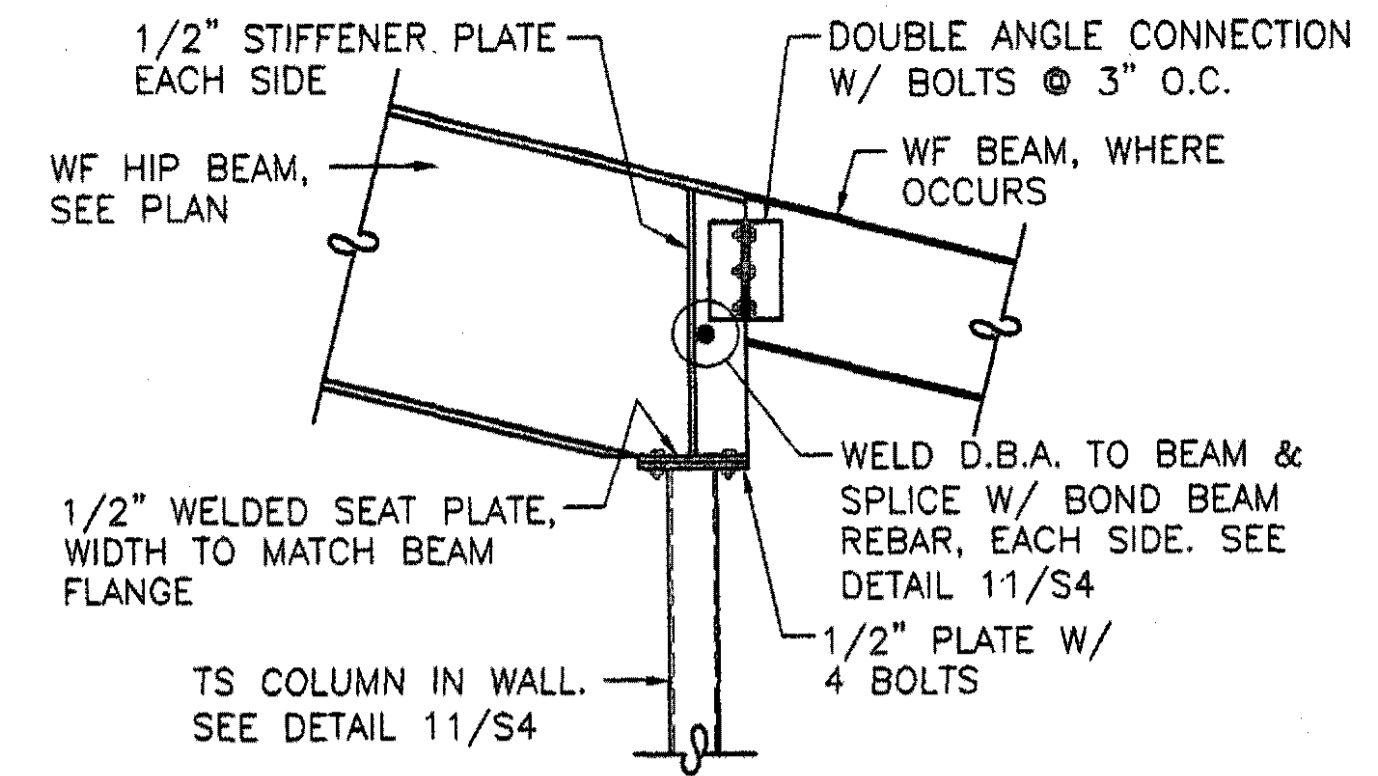
DETAIL 1

SCALE: 3/4"=1'-0"



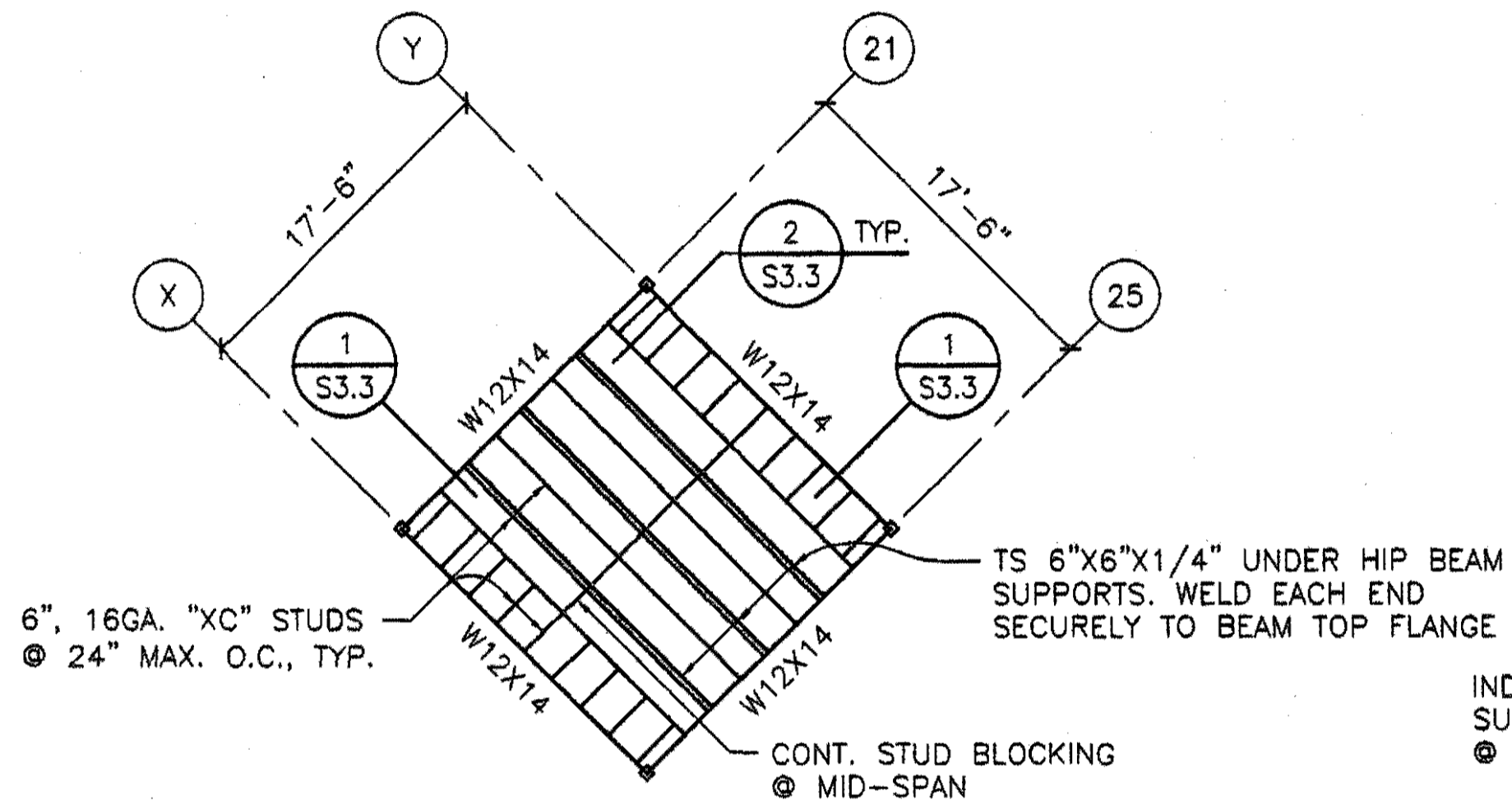
DETAIL 2

SCALE: 3/4"=1'-0"

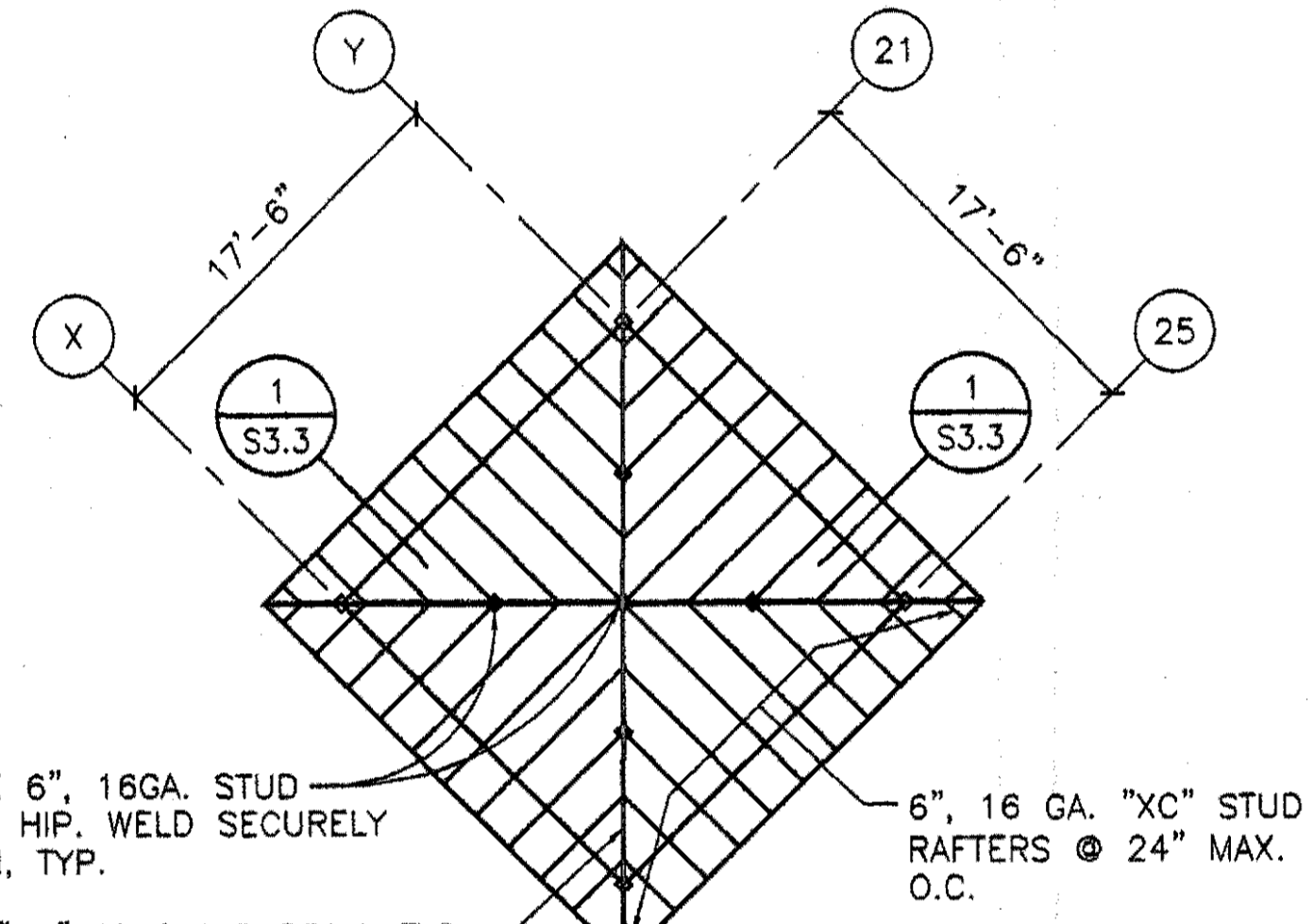


DETAIL 3

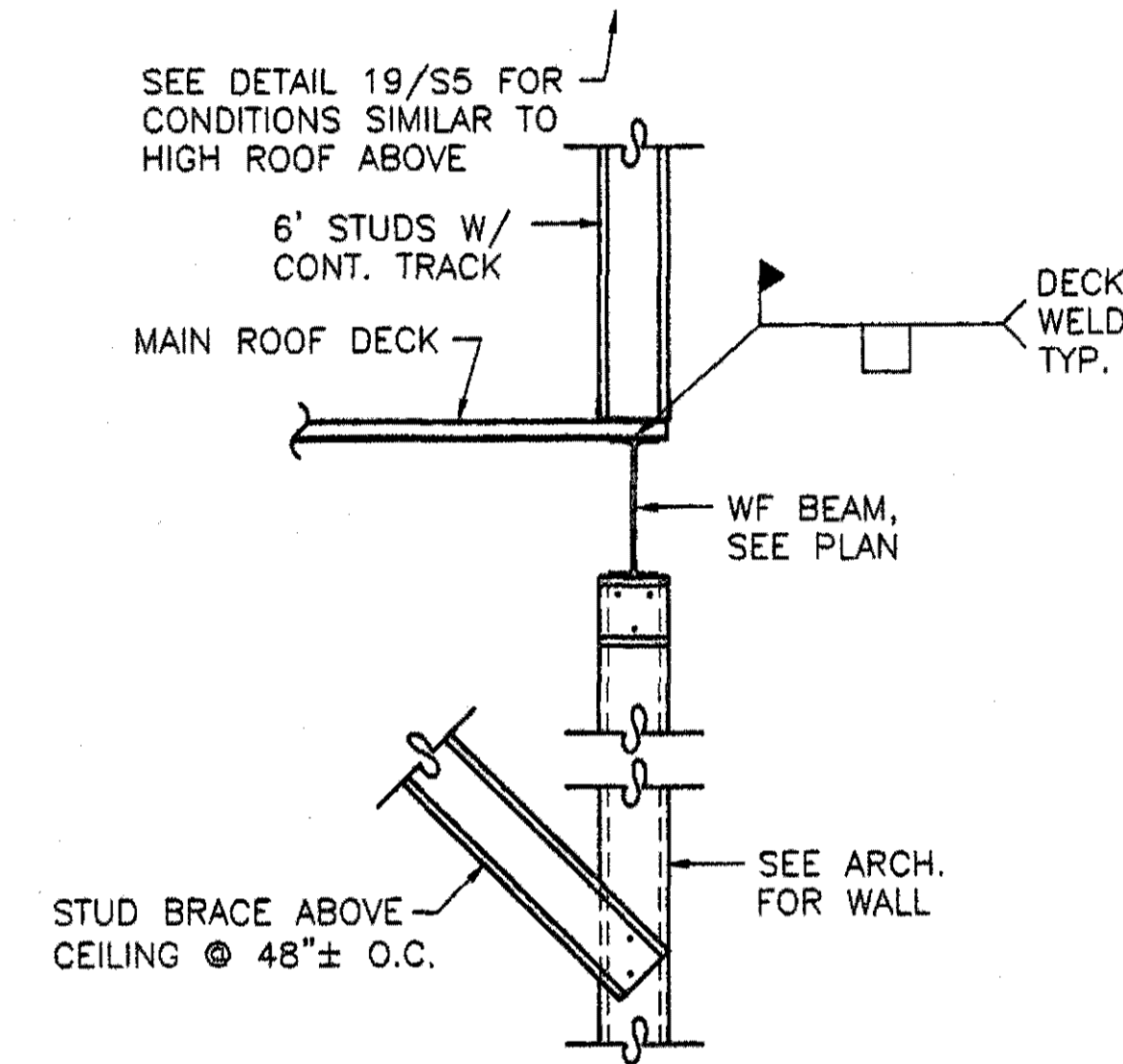
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ENTRANCE TOWER  
CEILING FRAMING PLAN  
SCALE: 1/8"=1'-0"

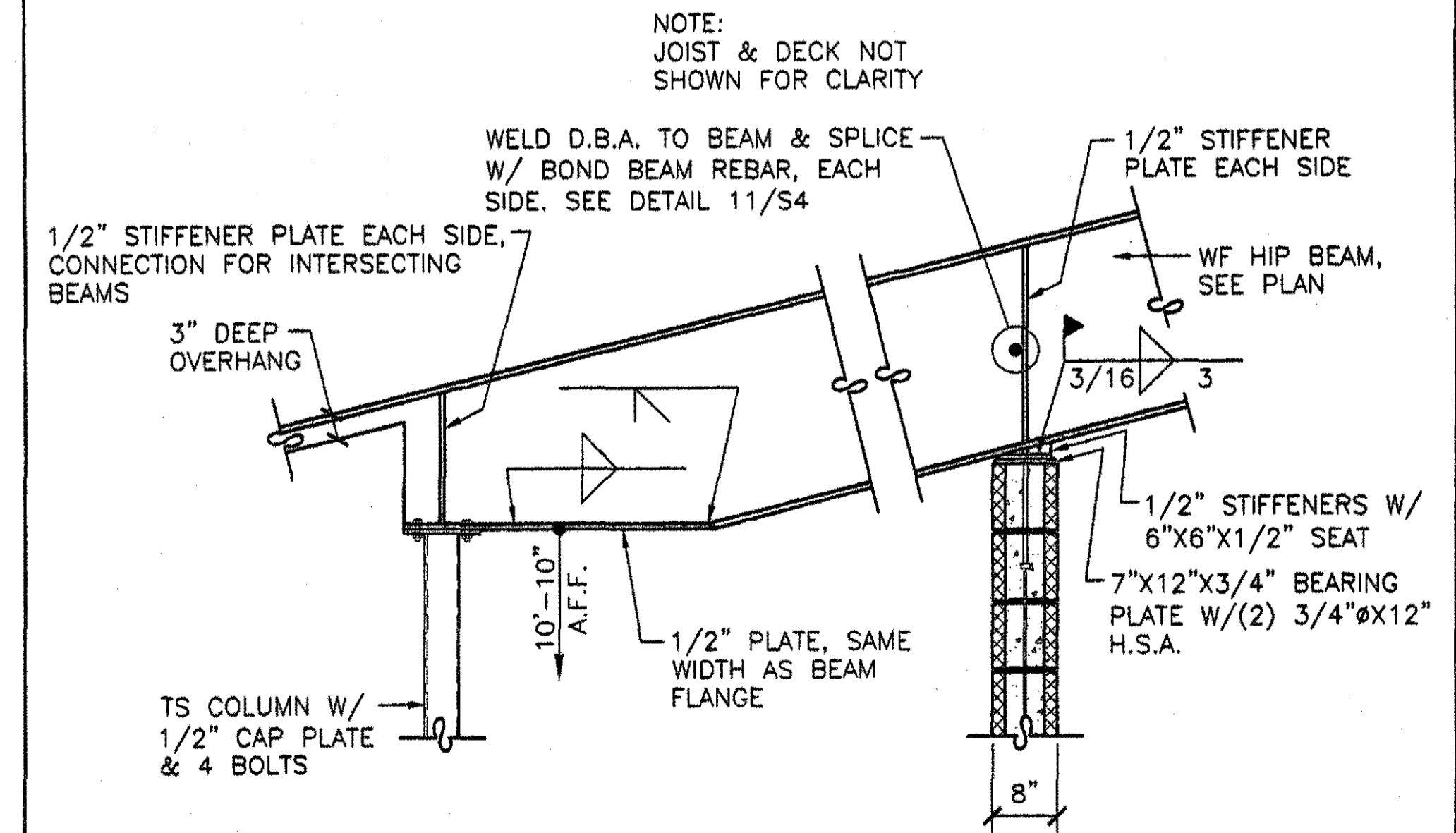


ENTRANCE TOWER  
ROOF FRAMING PLAN  
SCALE: 1/8"=1'-0"



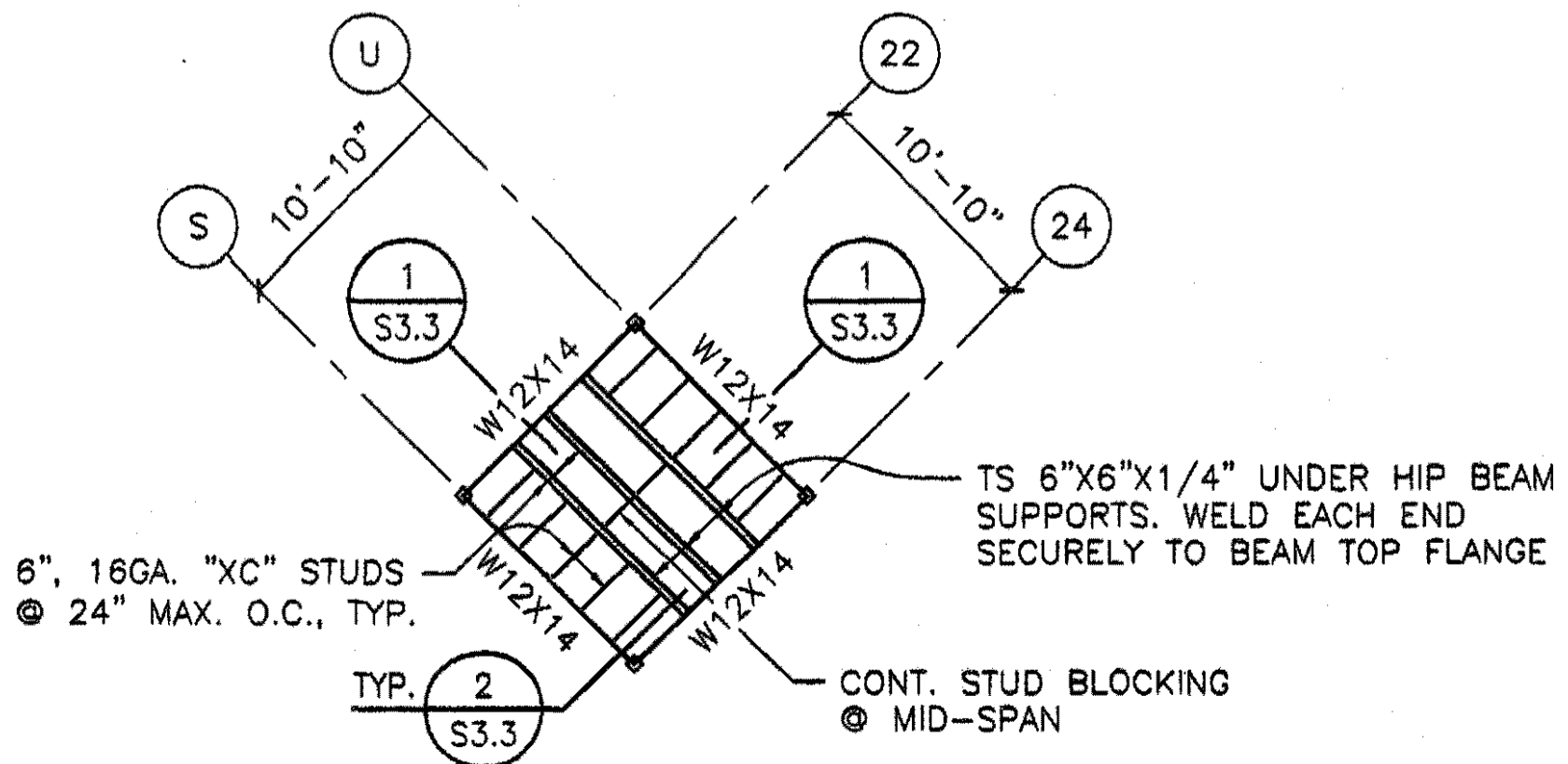
DETAIL 4

SCALE: 3/4"=1'-0"

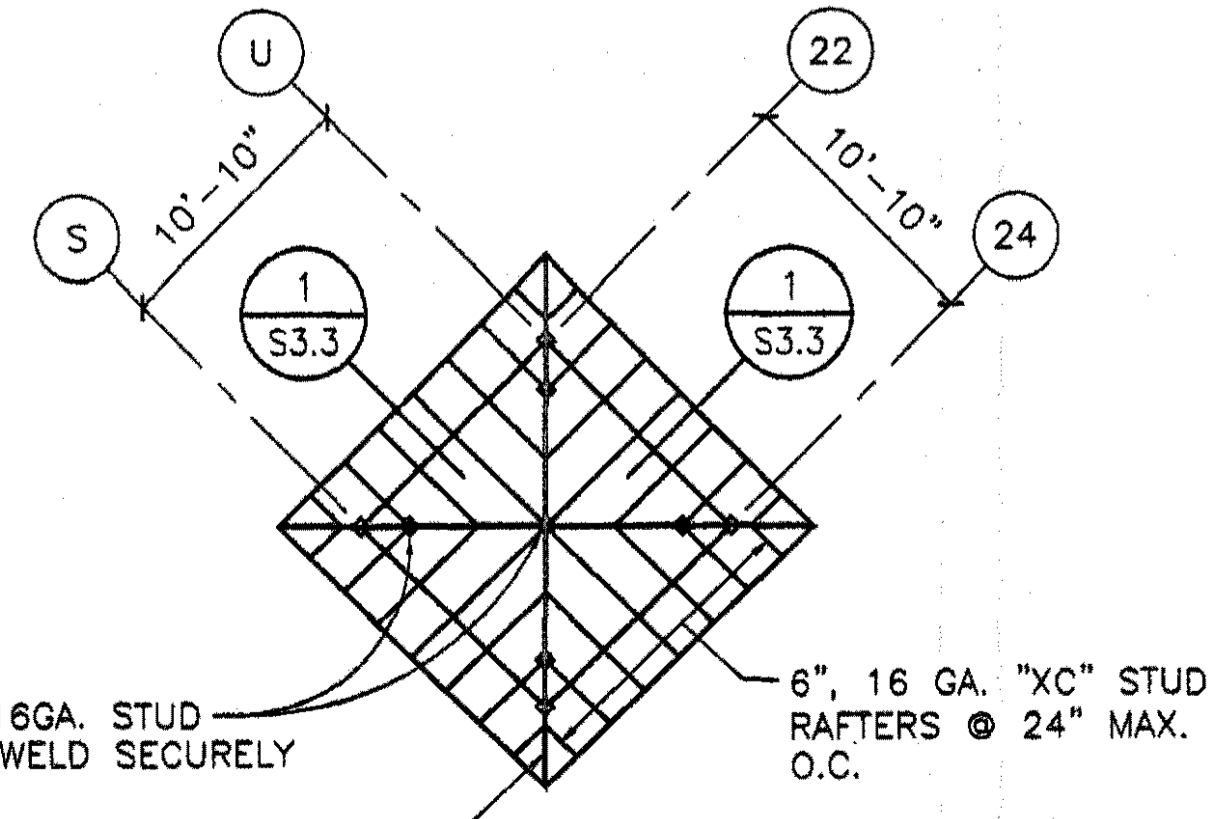


DETAIL 5

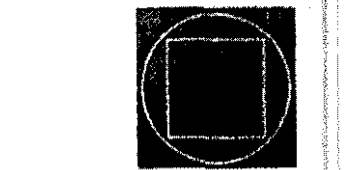
SCALE: 3/4"=1'-0"



SMALL TOWER  
CEILING FRAMING PLAN  
SCALE: 1/8"=1'-0"



SMALL TOWER  
ROOF FRAMING PLAN  
SCALE: 1/8"=1'-0"



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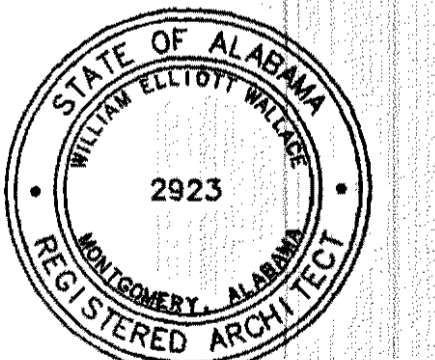
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A NEW  
RECREATION  
COMPLEX

FOR THE

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Orange  
Beach  
Alabama

6-1-019



Issue	date
Construction Draw	8.17.01

drawn by: BWA

TOWER  
FRAMING  
PLAN &  
DETAILS

95% SUBMITTAL

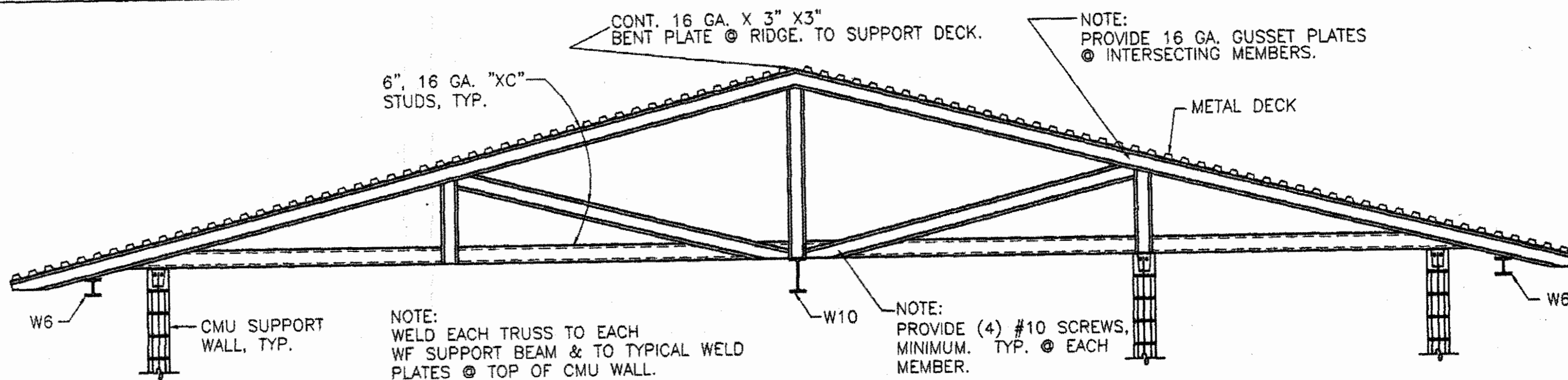
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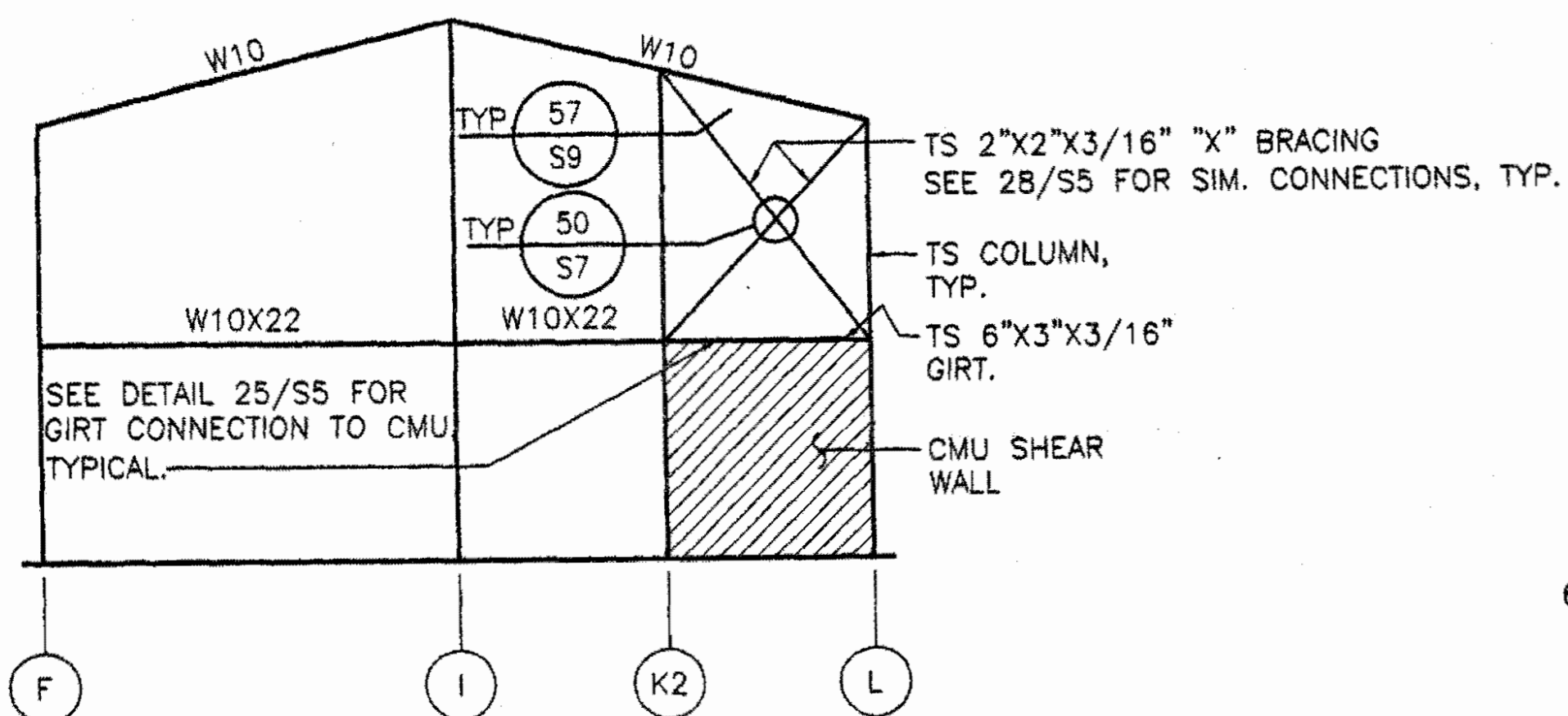
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Montgomery, Alabama 36104

**PLAN NOTES:**

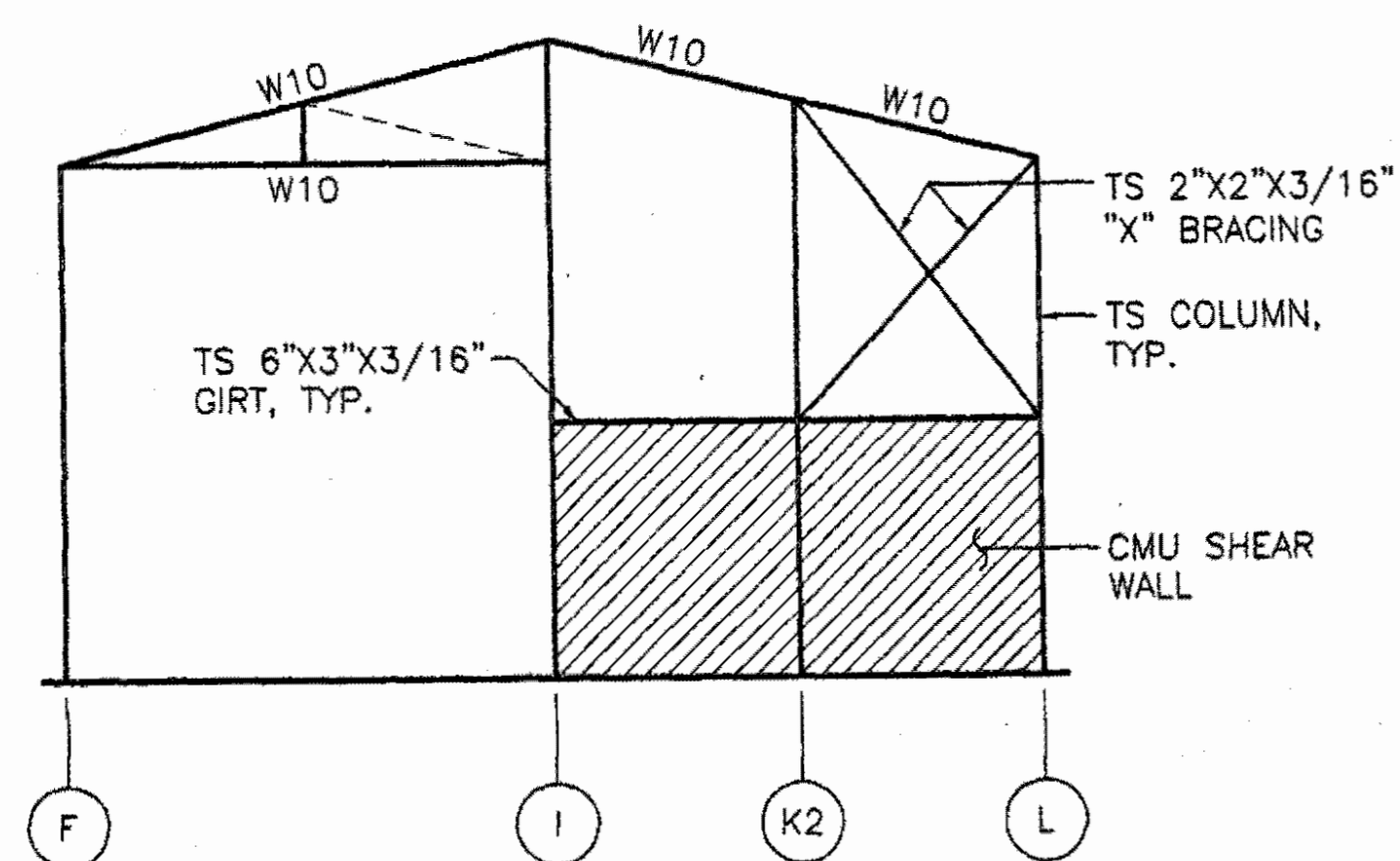
- CIRCLED NOTES ARE KEYED TO PLAN. SEE SHEET S3.1 FOR PLAN NOTES 1 THROUGH 5.
- ⑥ PROVIDE 6", 16 GA. STUD SUPPORTS FOR RAFTERS WHERE SHOWN. LOCATE OVER JOISTS BELOW. MAIN ROOF DECK SHALL CONTINUE BELOW OVERBUILD AREA.
- ⑦ SAME AS NOTE 7 ON SHEET S3.1.
- ⑧ SAME AS NOTE 12 ON SHEET S3.1.
- 9 SEE FRAMING ELEVATIONS, THIS SHEET, FOR BRACED BAYS.



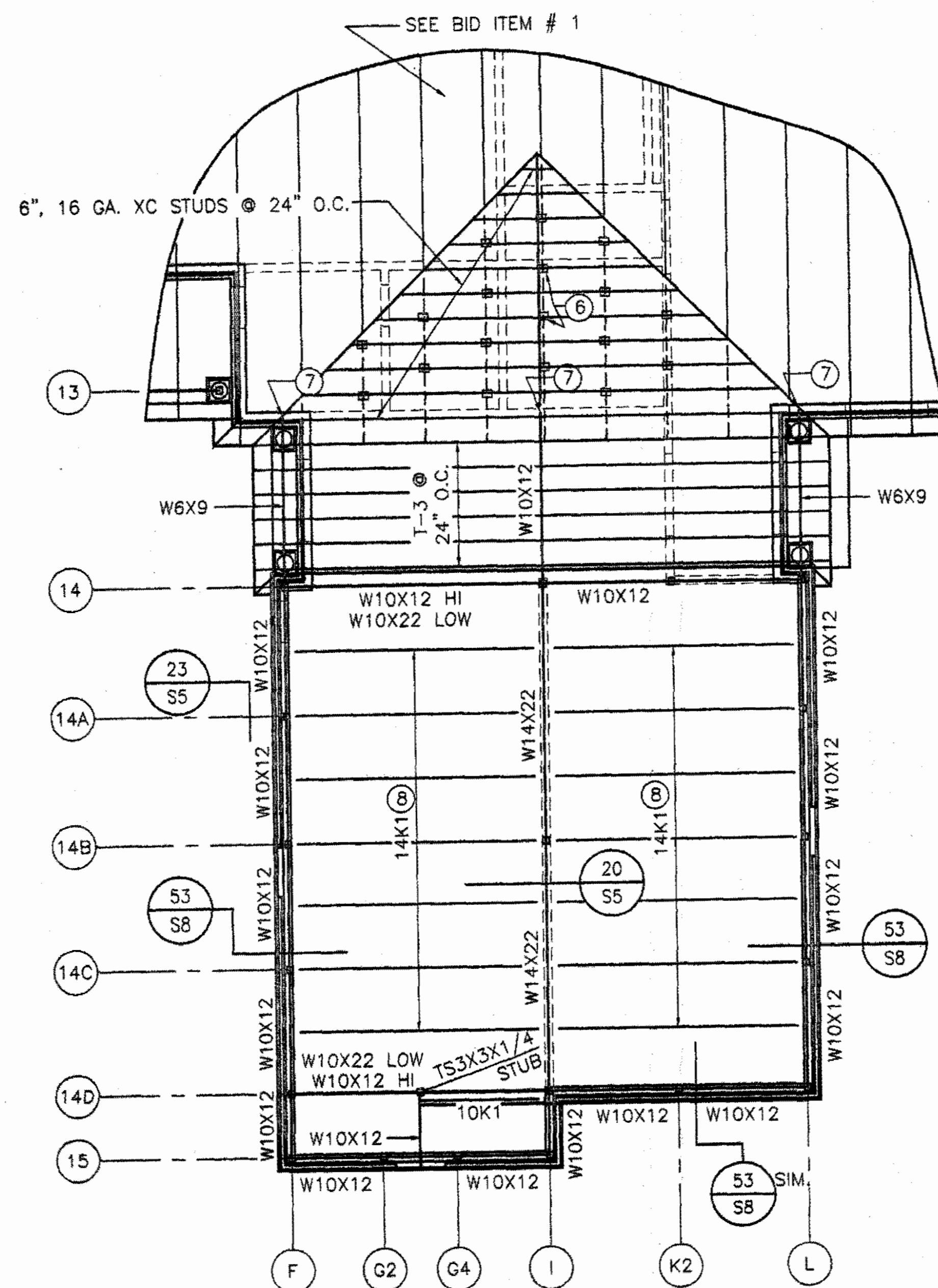
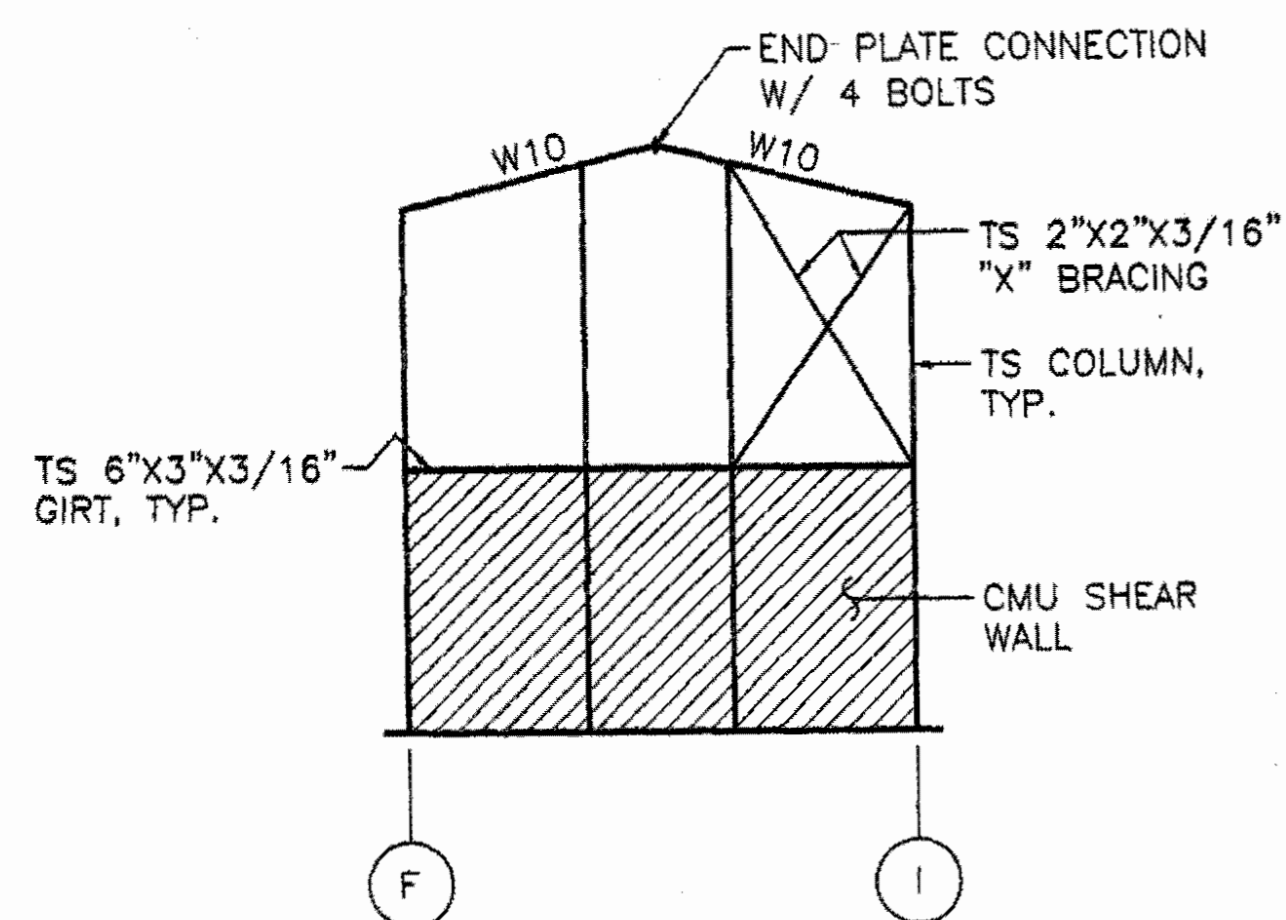
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**FRAMING ELEVATION @ GRID 14**

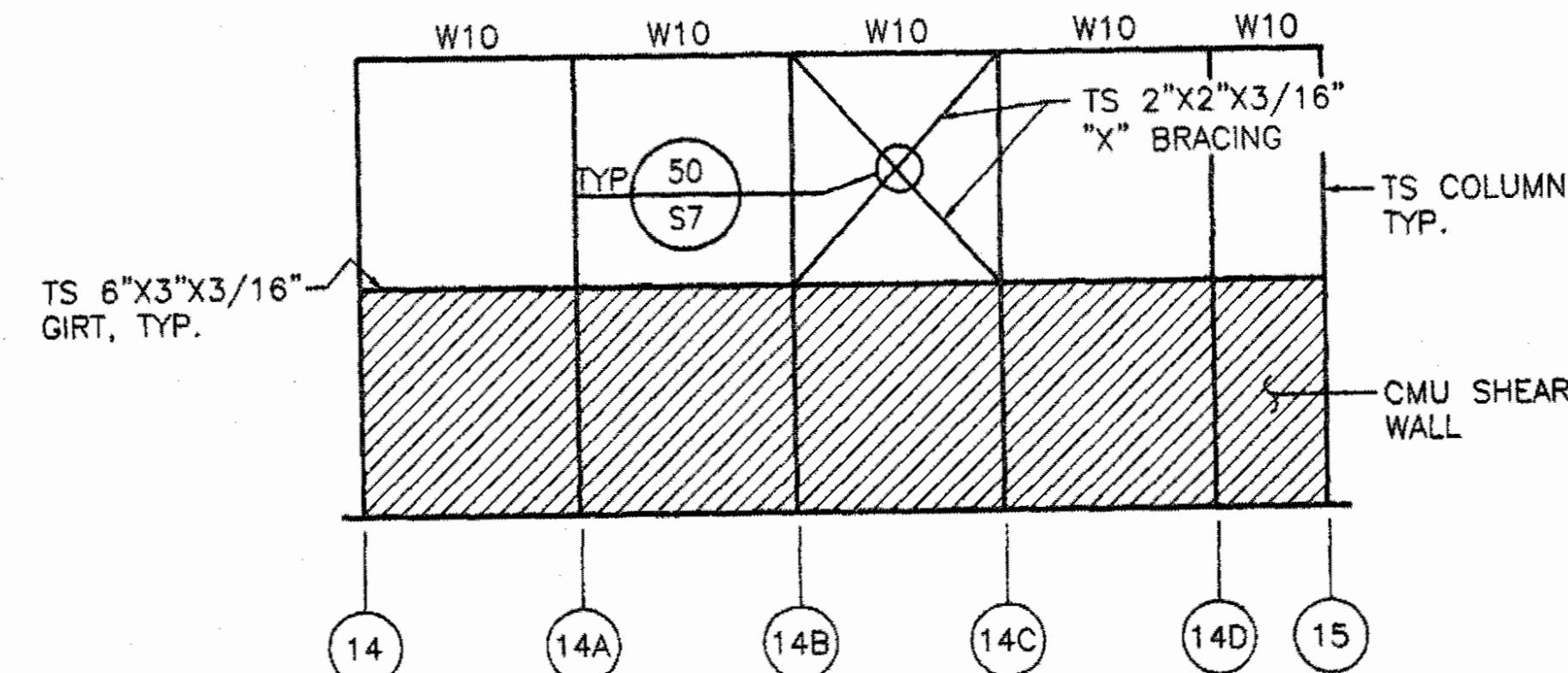


**FRAMING ELEVATION @ GRID 14D**

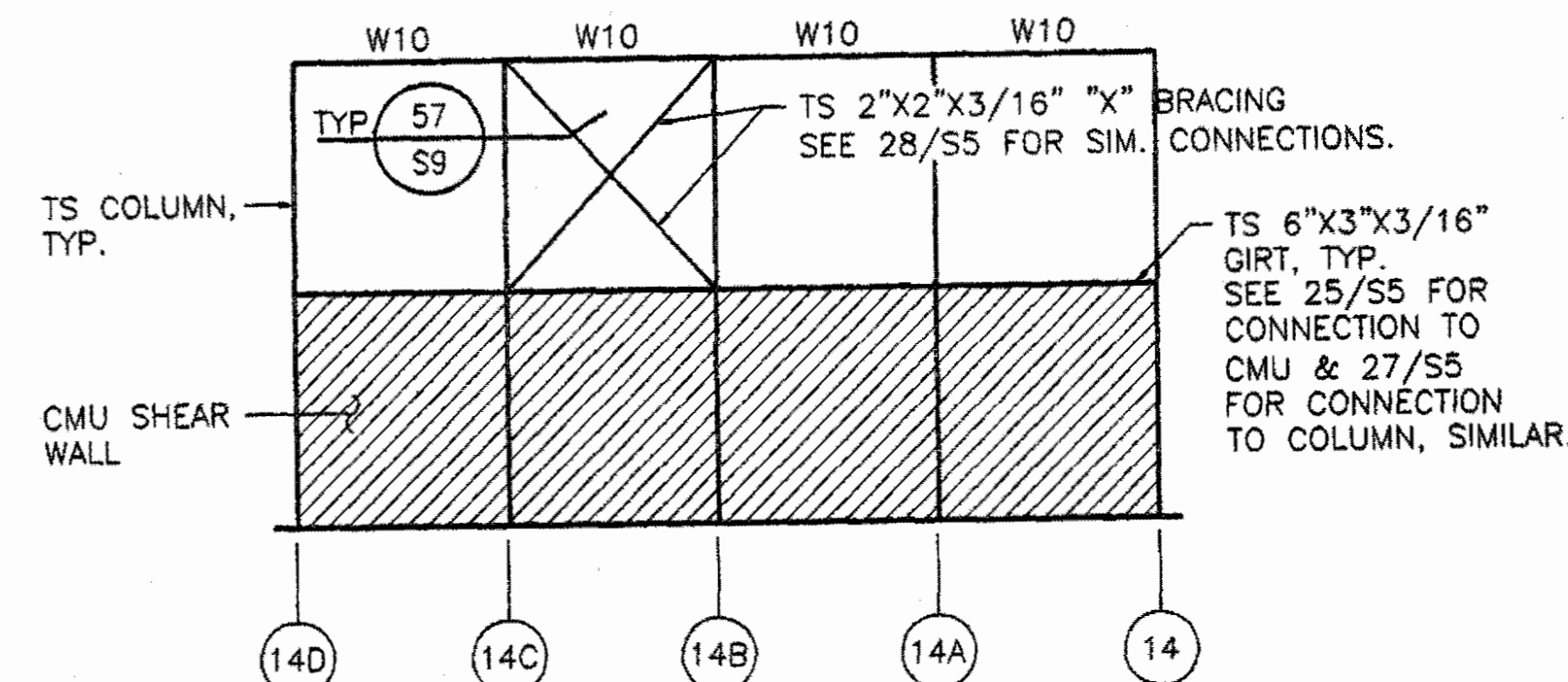


**BID ITEM 2 ROOF FRAMING PLAN**

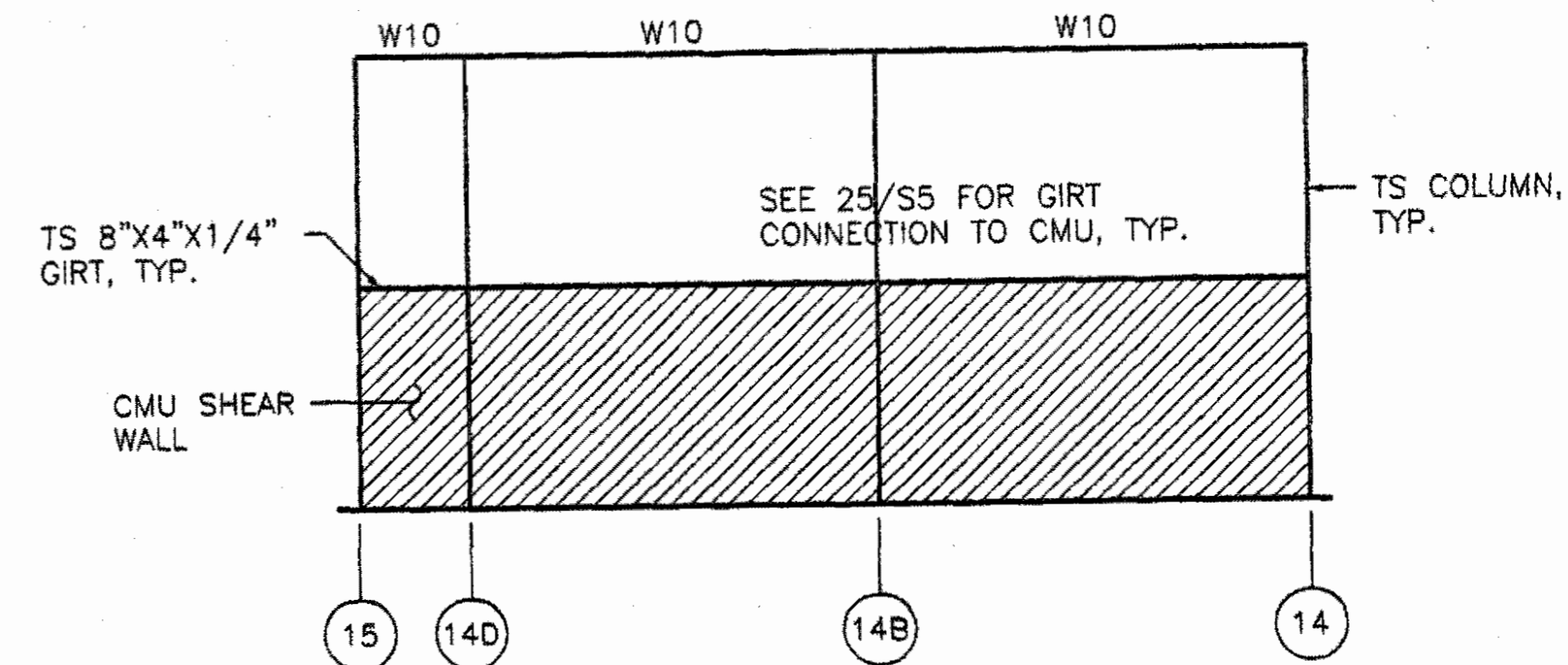
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**FRAMING ELEVATION @ GRID F**



**FRAMING ELEVATION @ GRID L**



**FRAMING ELEVATION @ GRID I**

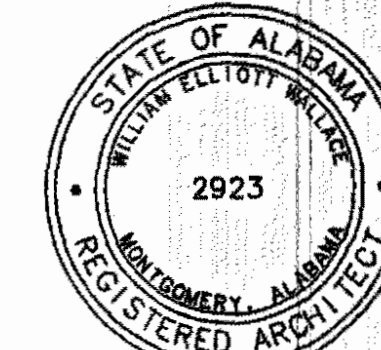
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**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

**6-1-019**



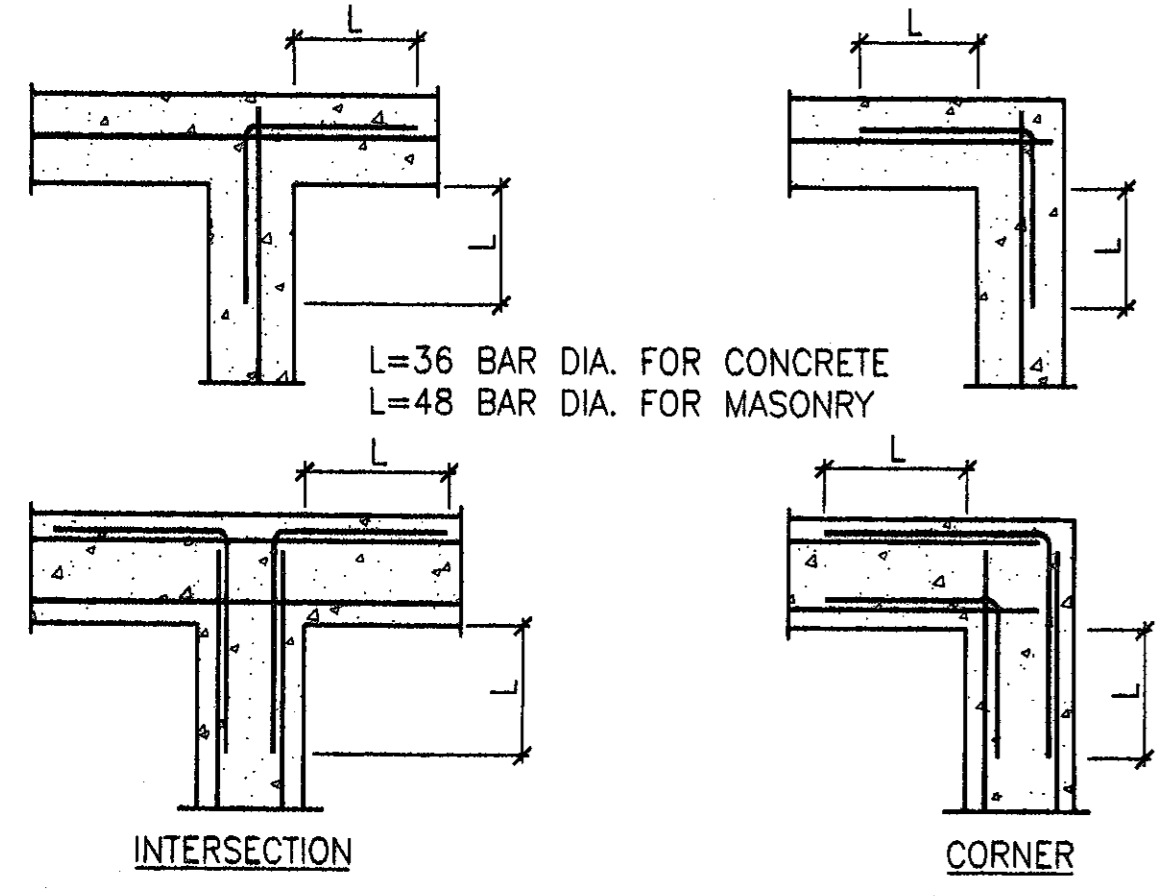
Issue	Date
Construction Dwgs	6.17.01

drawn by: SVA  
**BID ITEM 2 ROOF FRAMING PLAN**

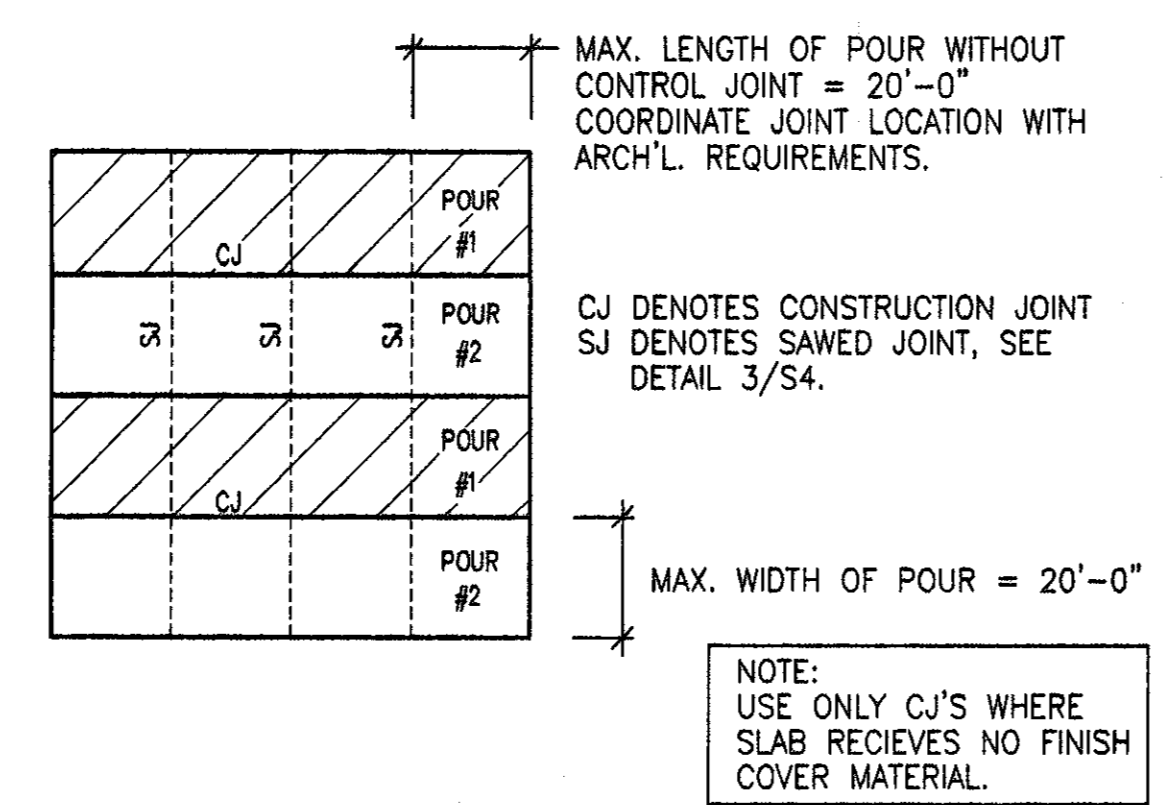
**95% SUBMITTAL**

**S3.4**  
sheet of

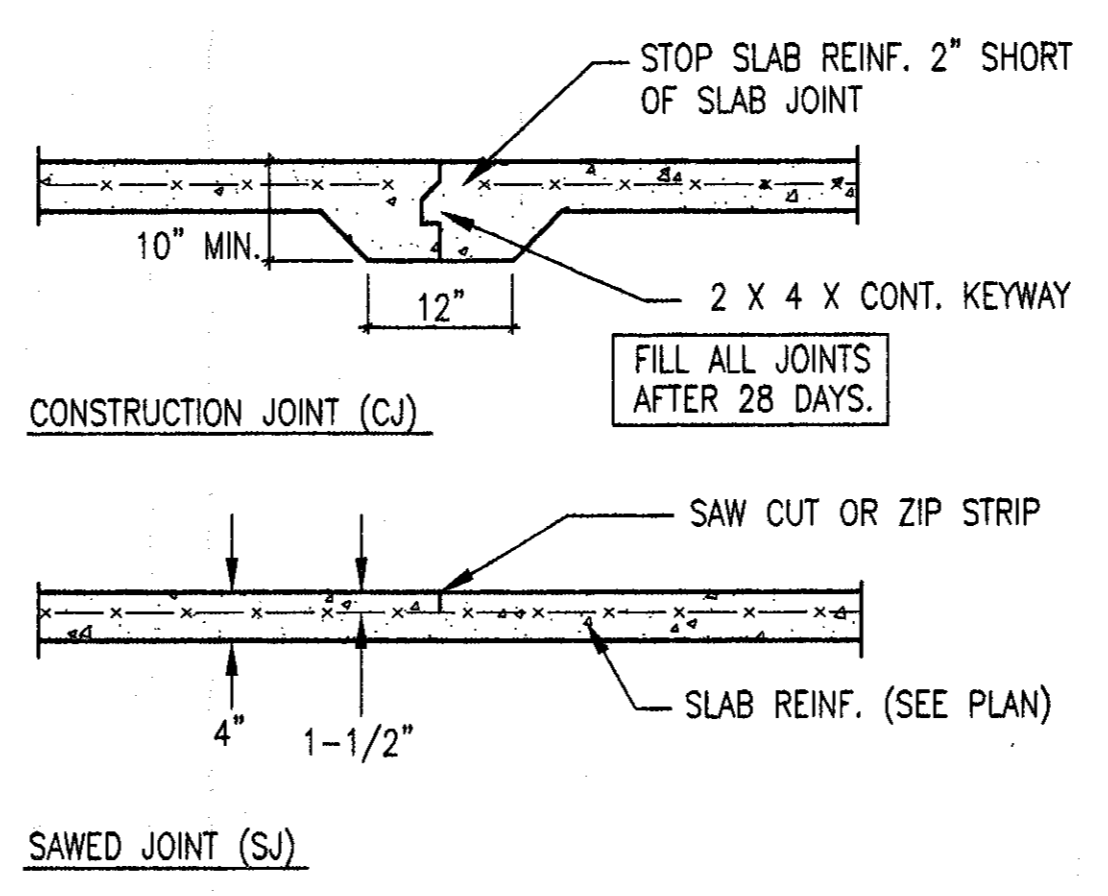
Grant Engineering  
Consulting Structural Engineer  
325 North Hull Street



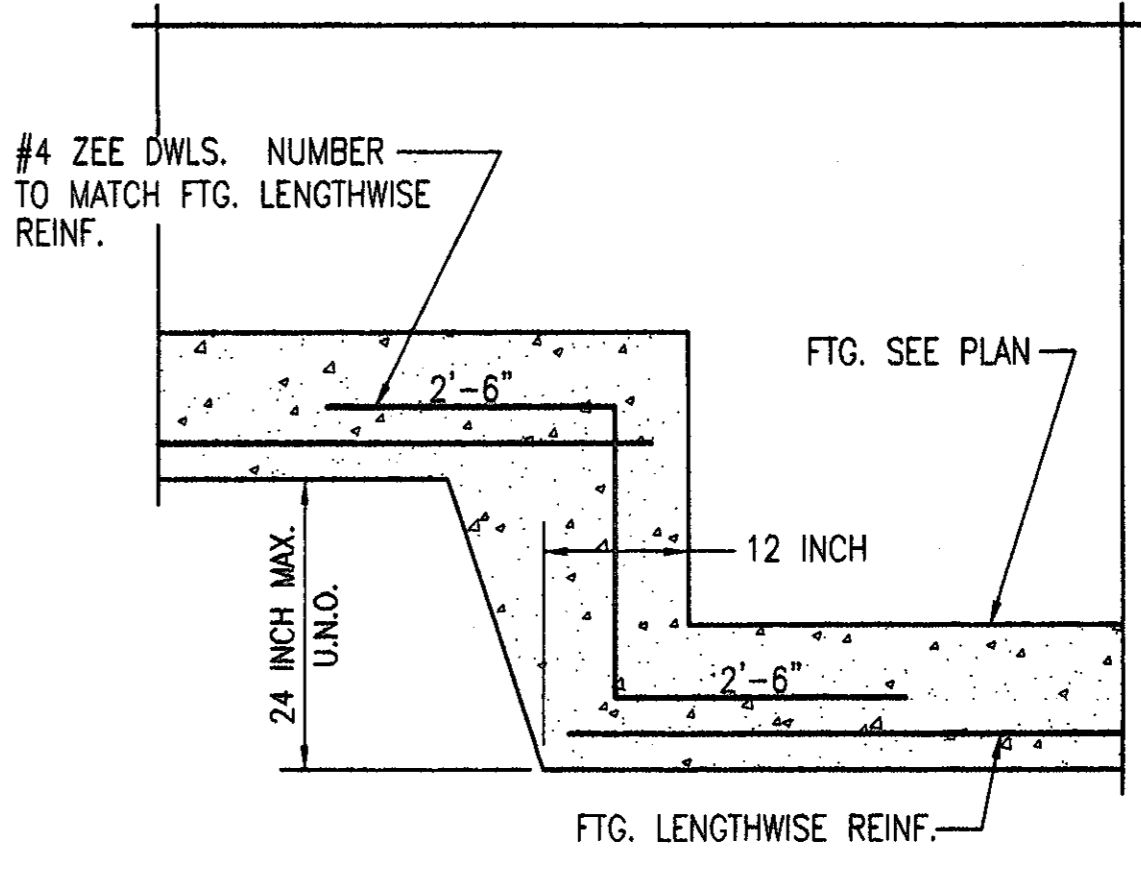
DETAIL 1 SCALE: 3/4"=1'-0"



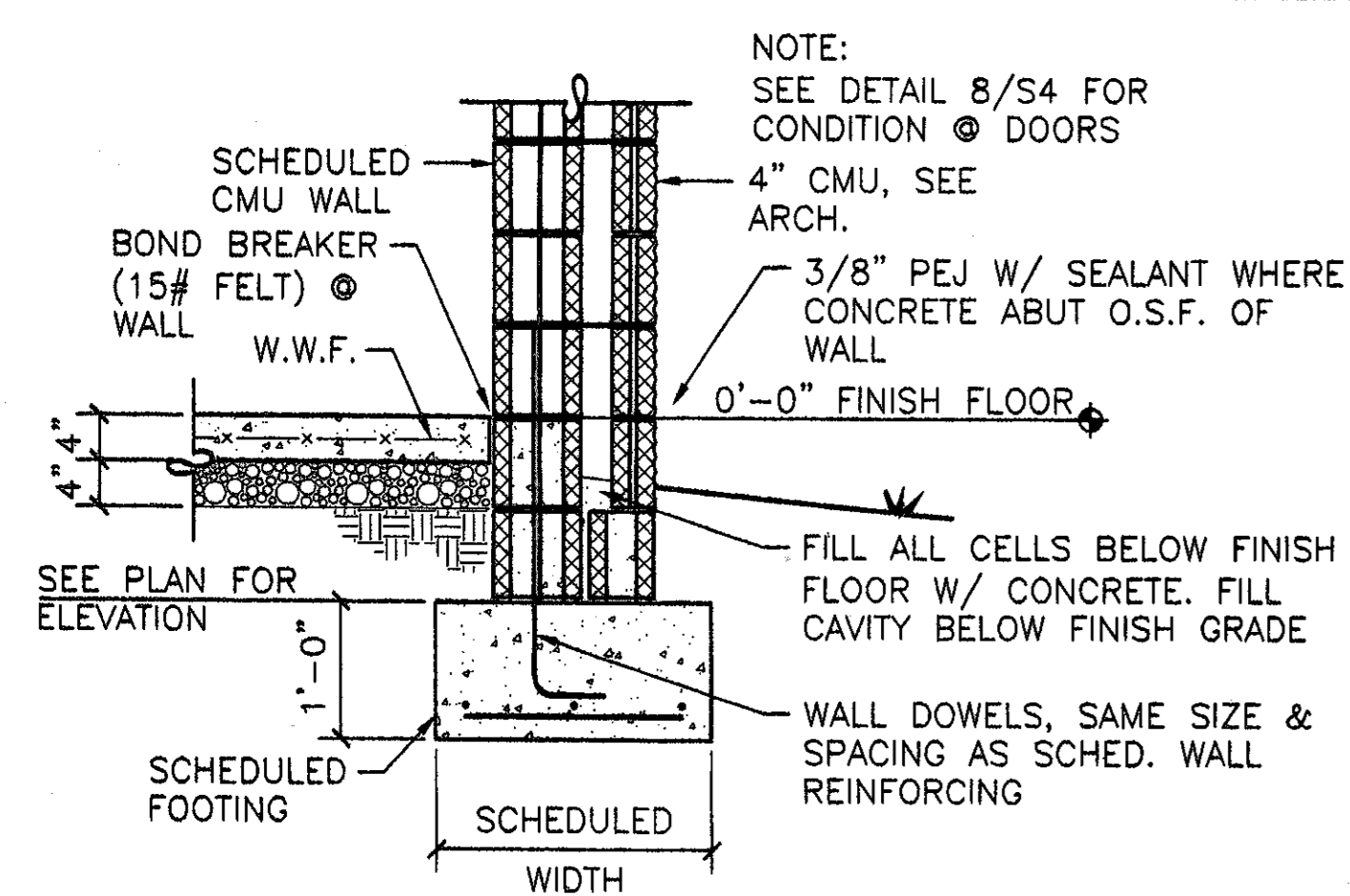
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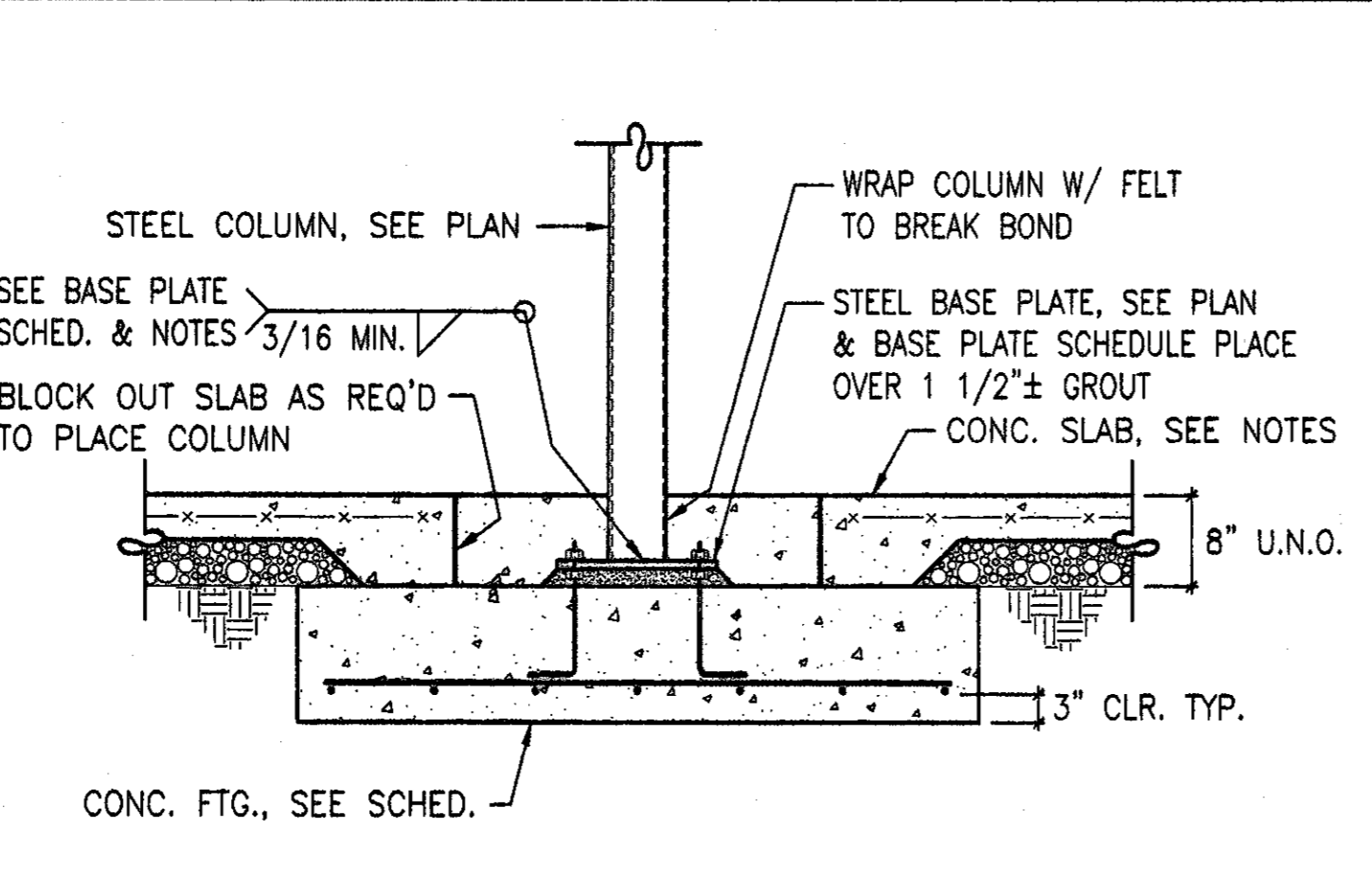
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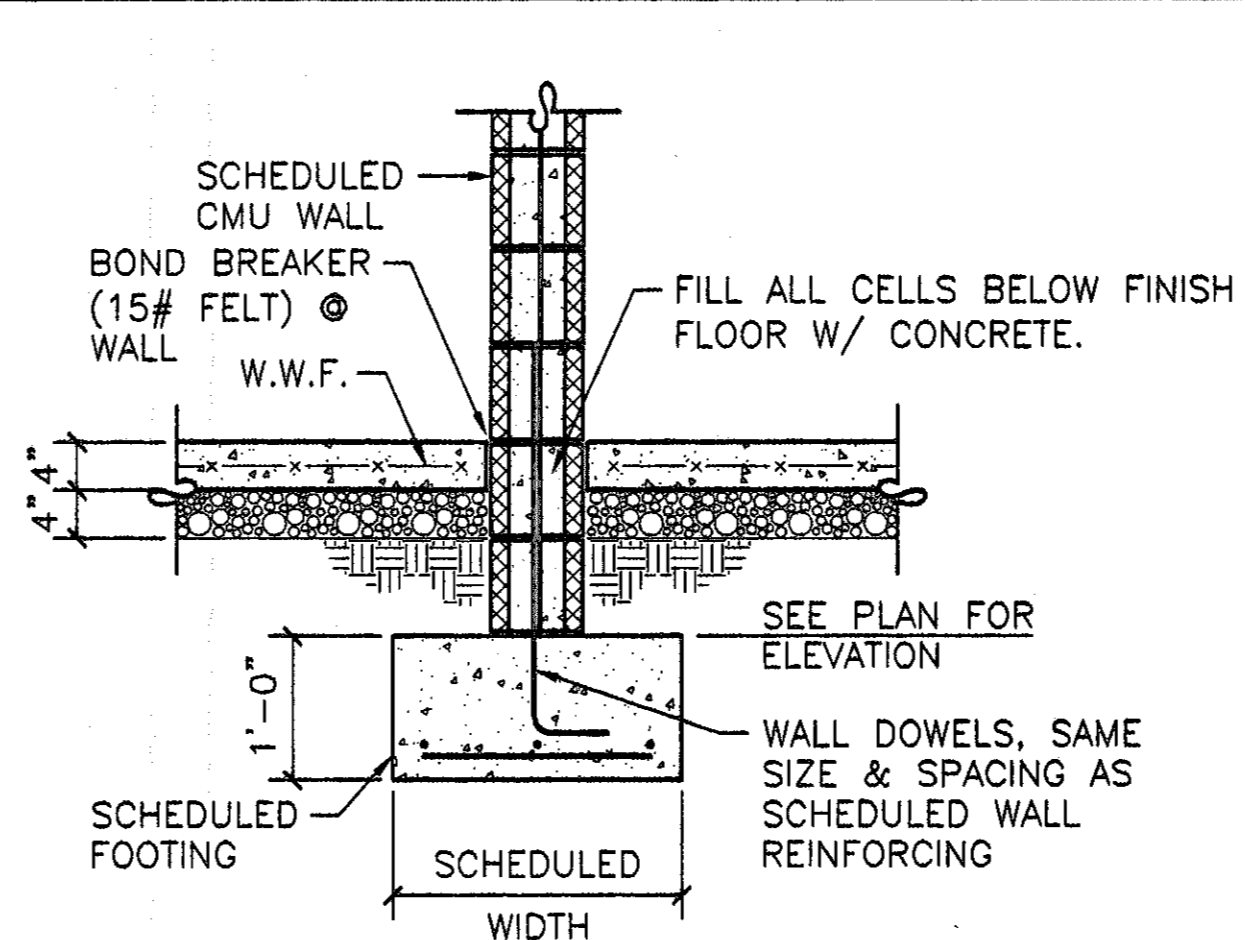
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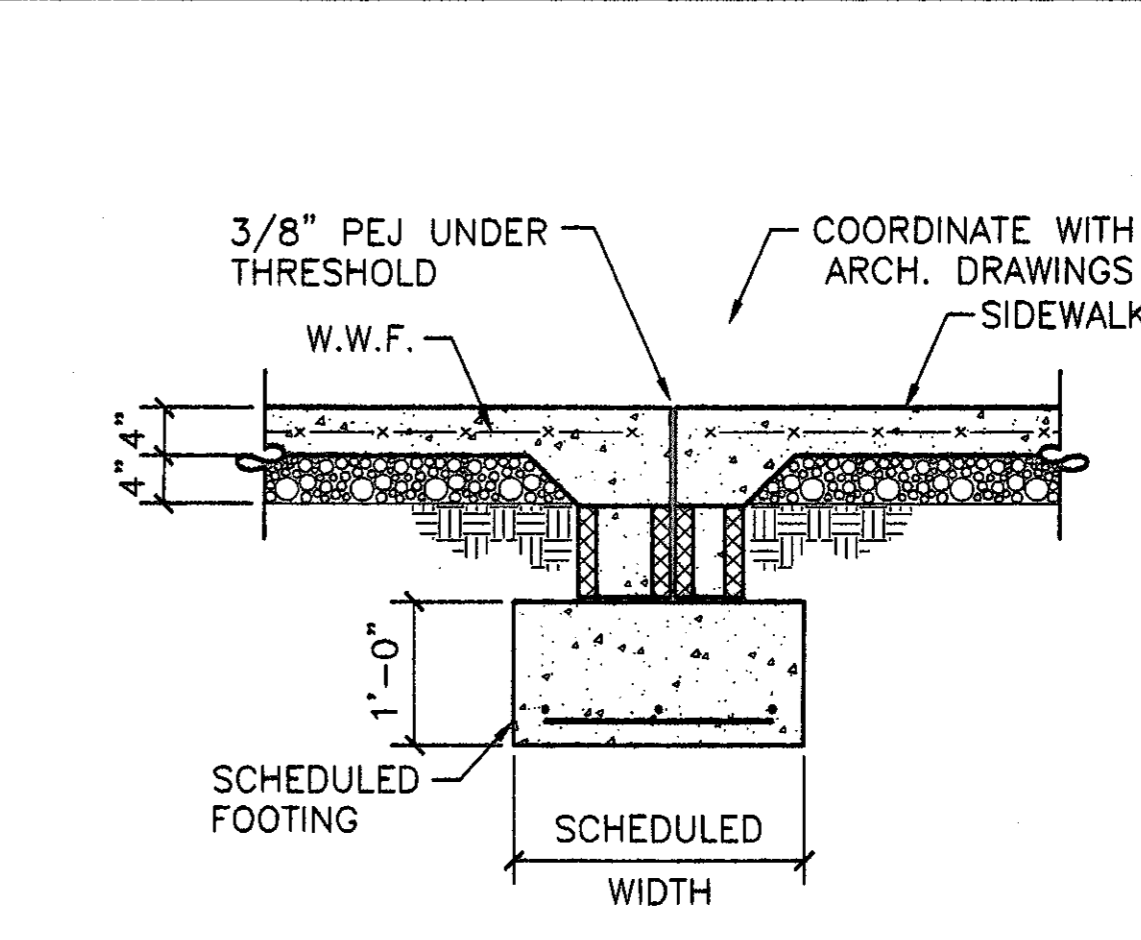
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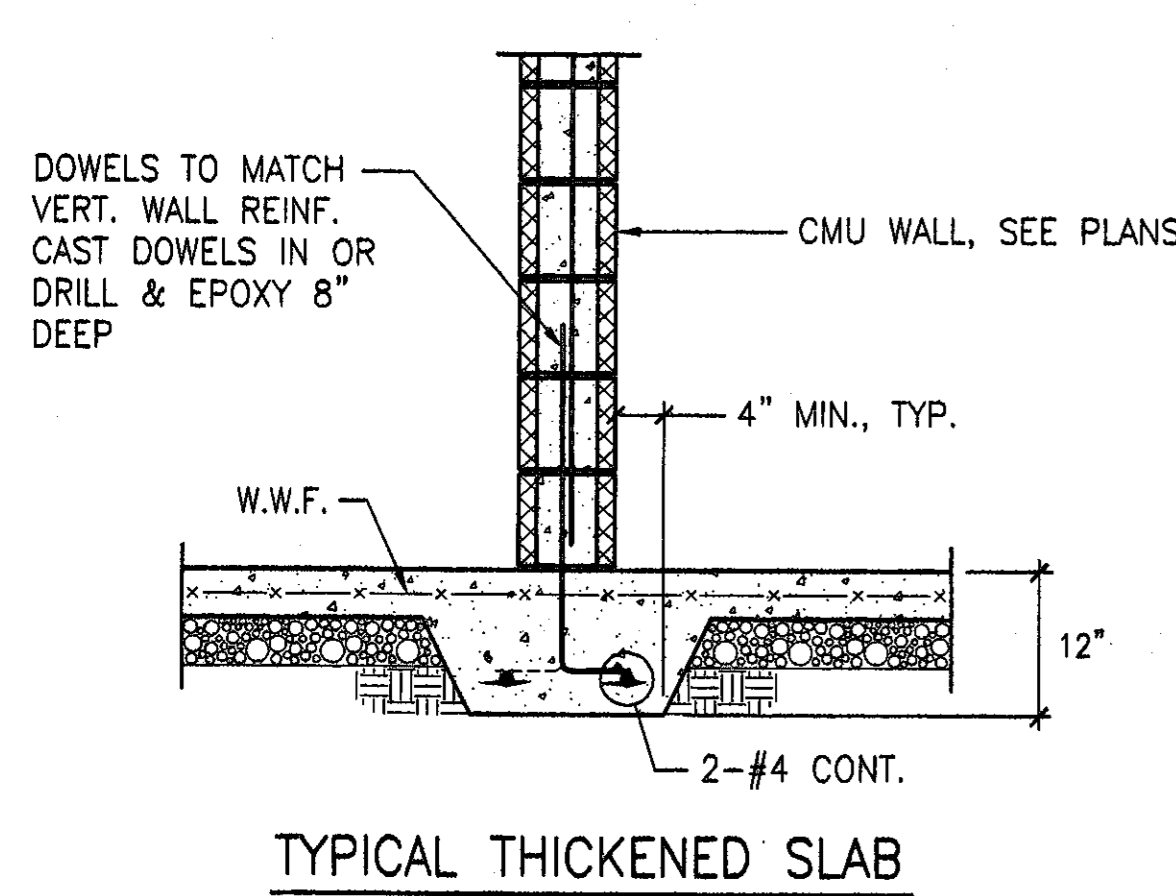
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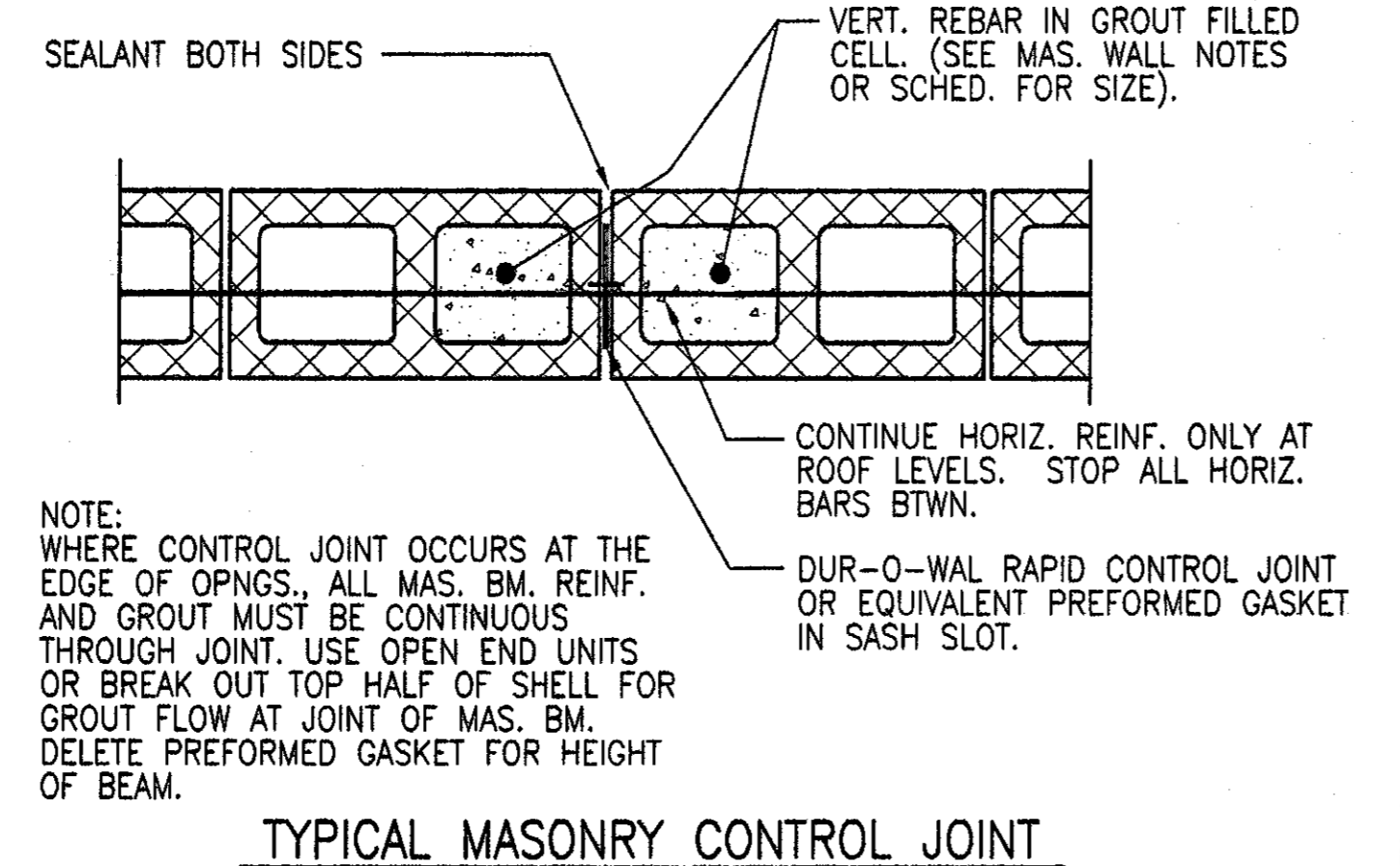
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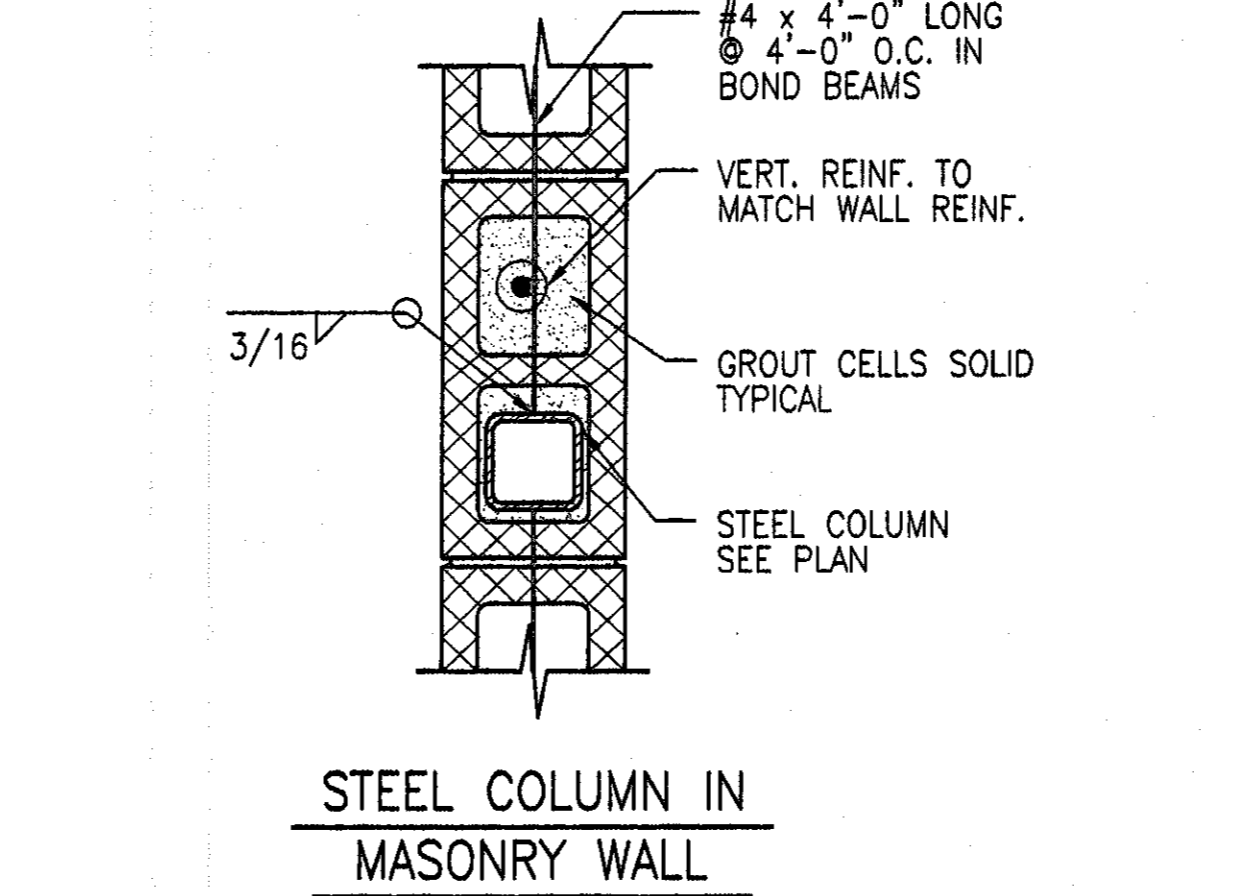
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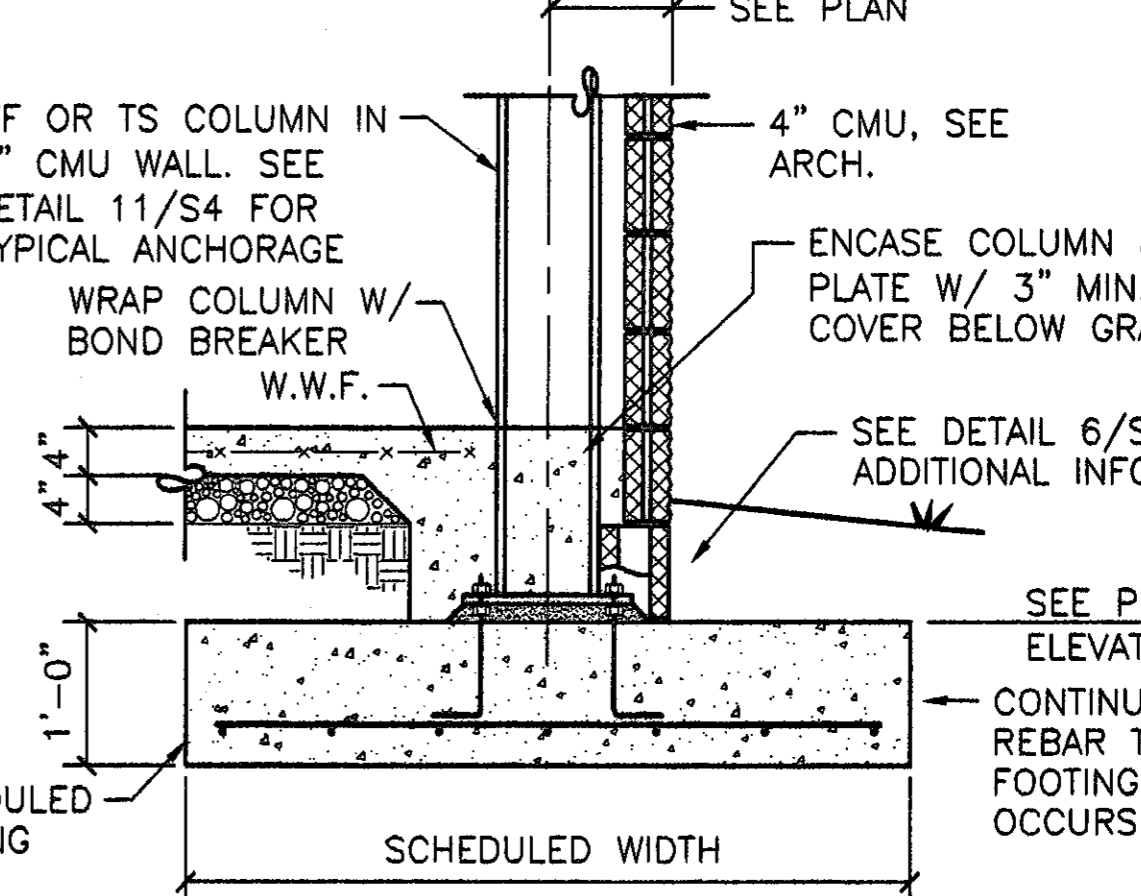
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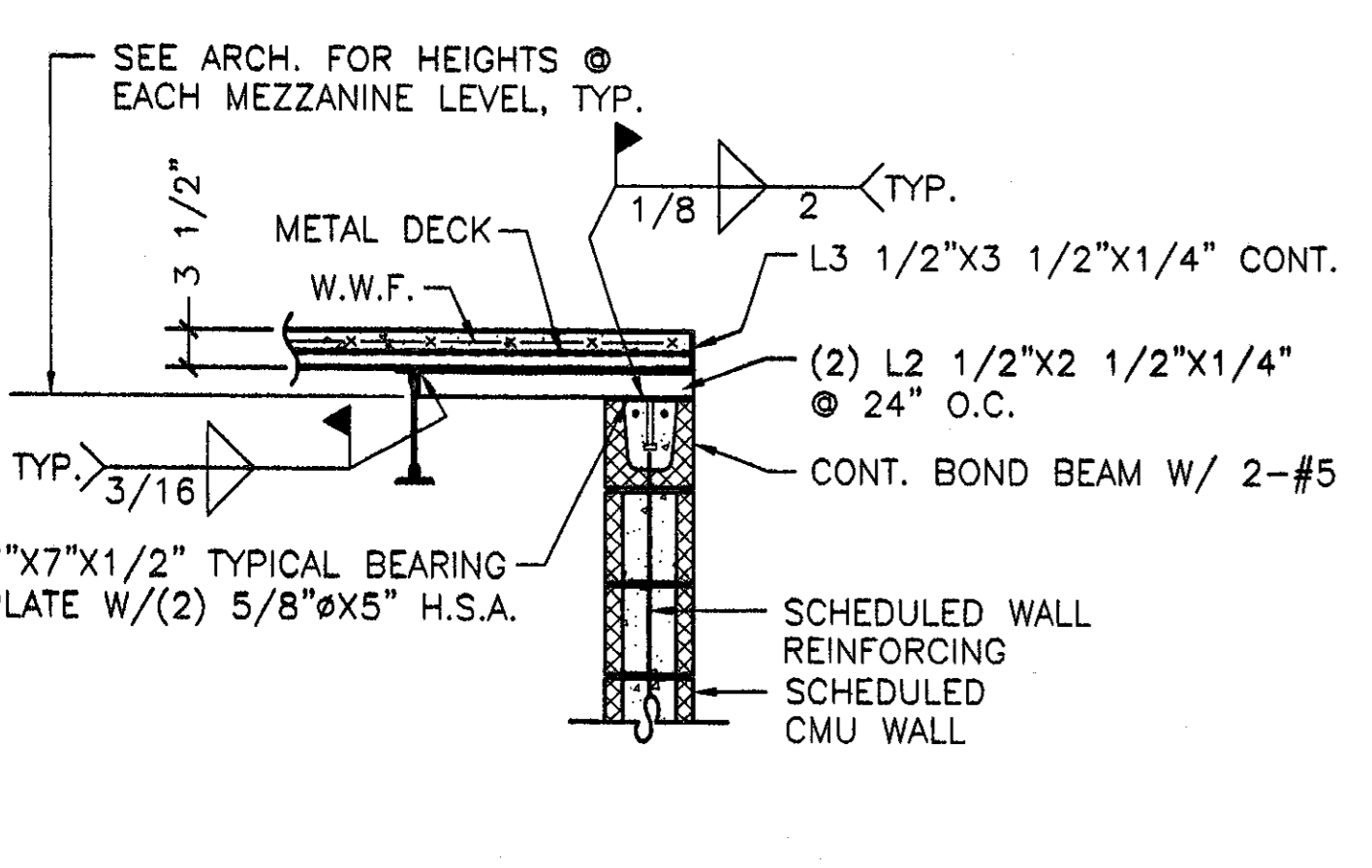
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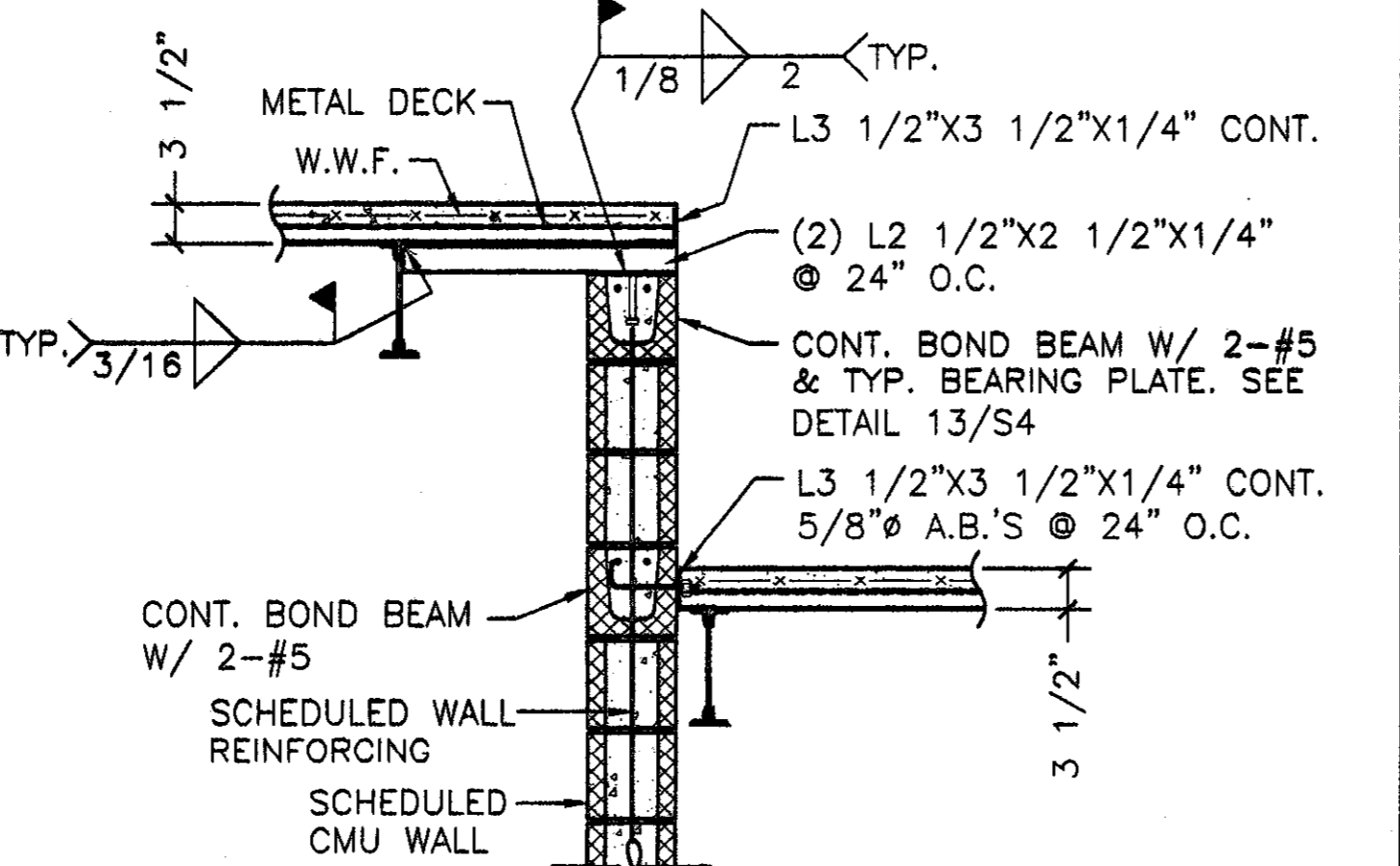
DETAIL 11 SCALE: 3/4"=1'-0"



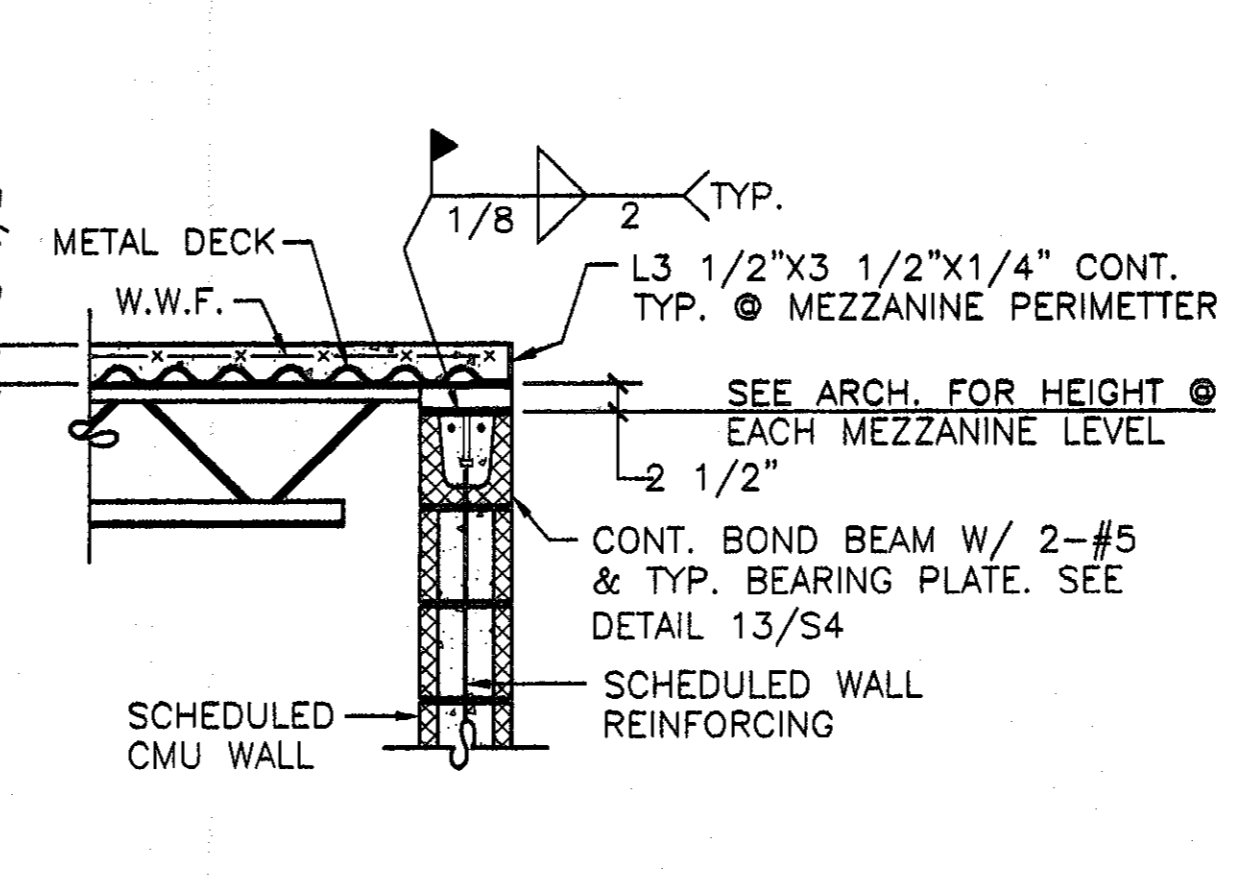
DETAIL 12 SCALE: 3/4"=1'-0"



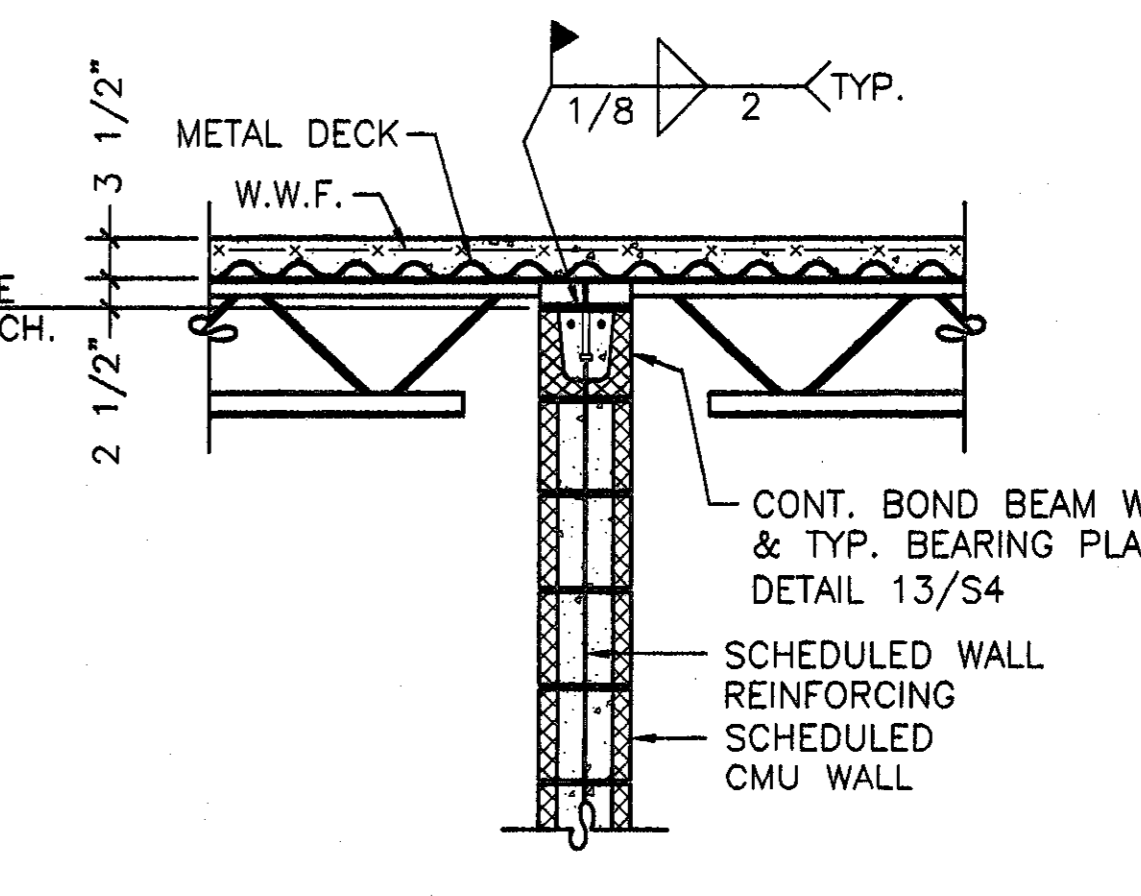
DETAIL 13 SCALE: 3/4"=1'-0"



DETAIL 14 SCALE: 3/4"=1'-0"



DETAIL 15 SCALE: 3/4"=1'-0"



DETAIL 16 SCALE: 3/4"=1'-0"

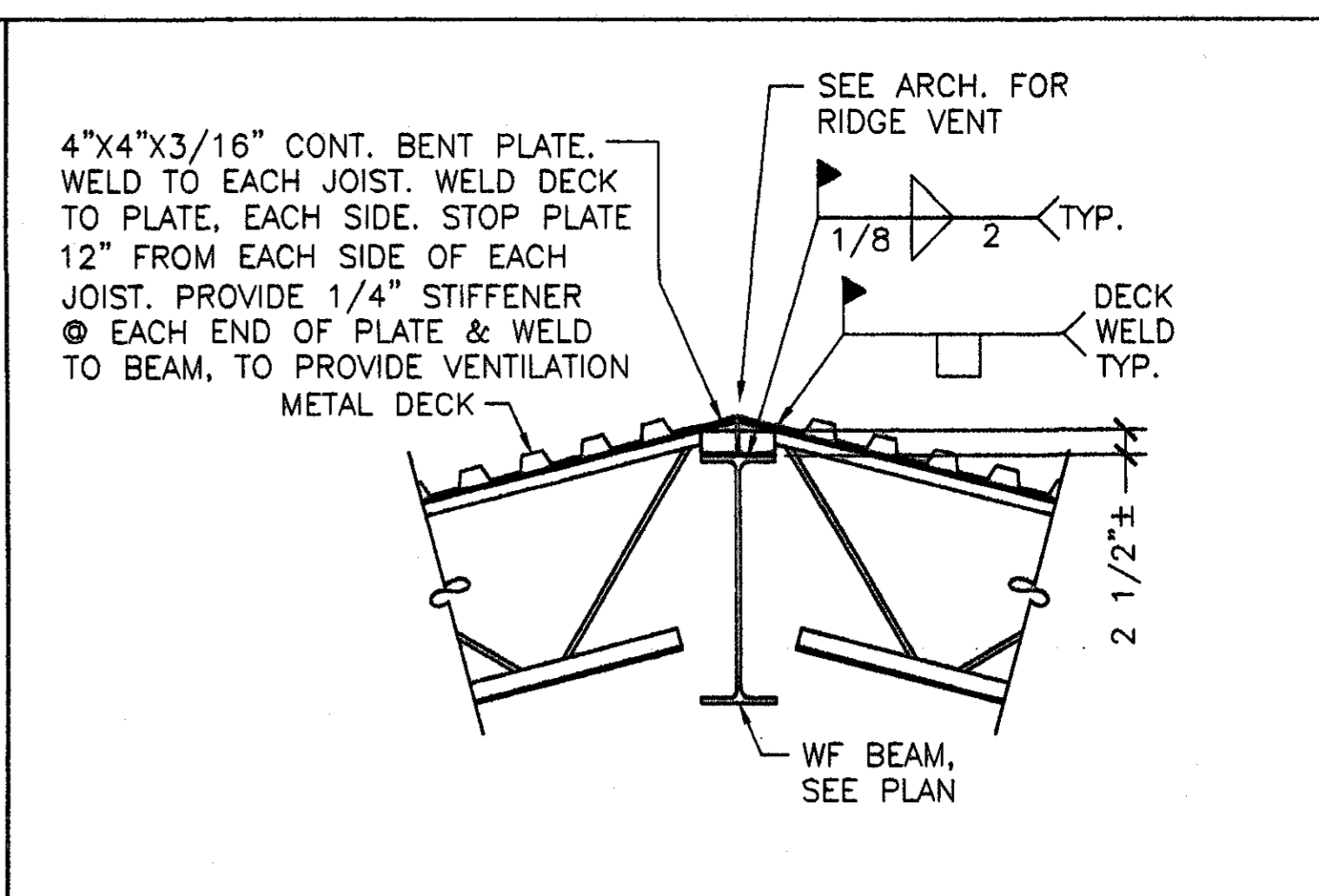
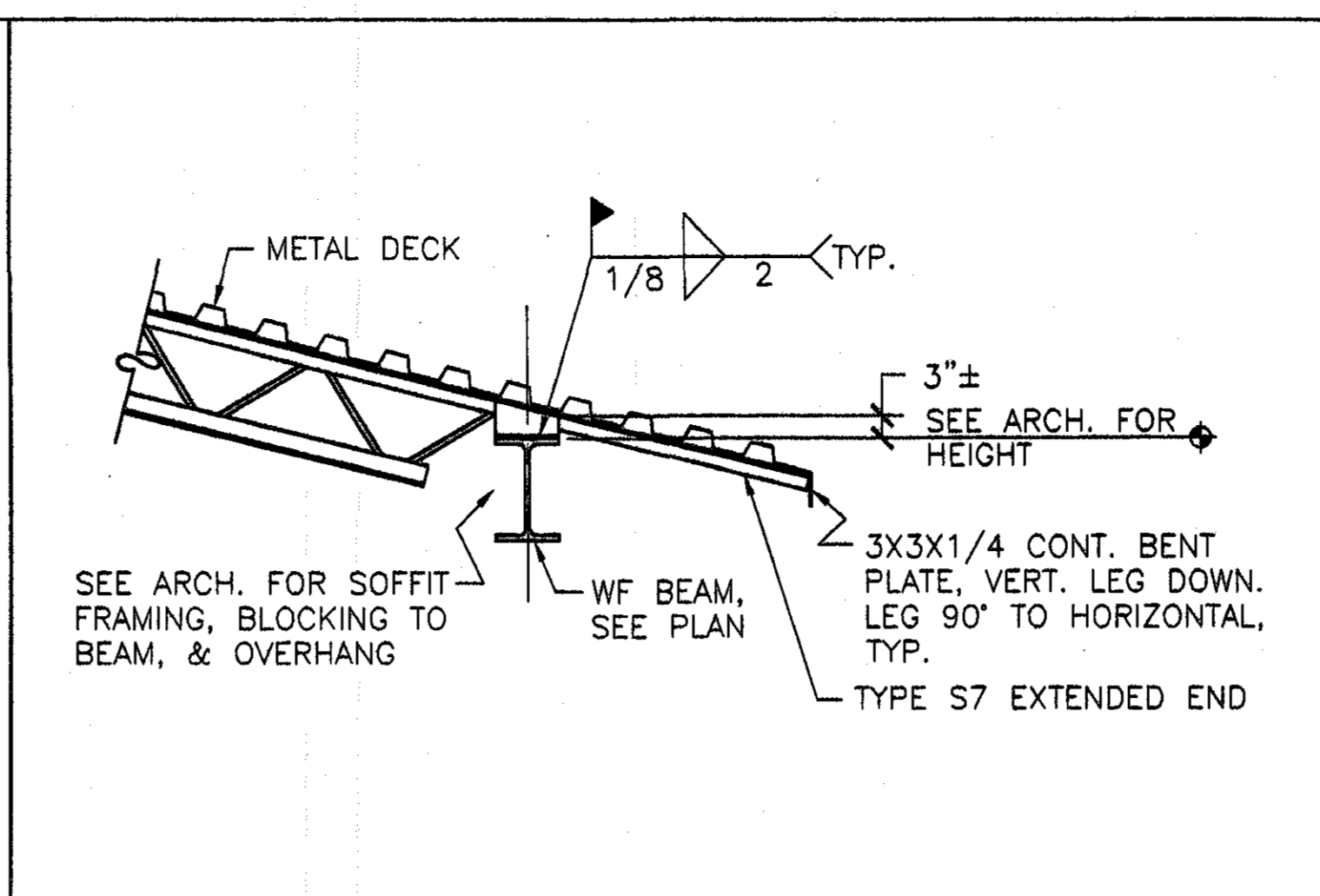
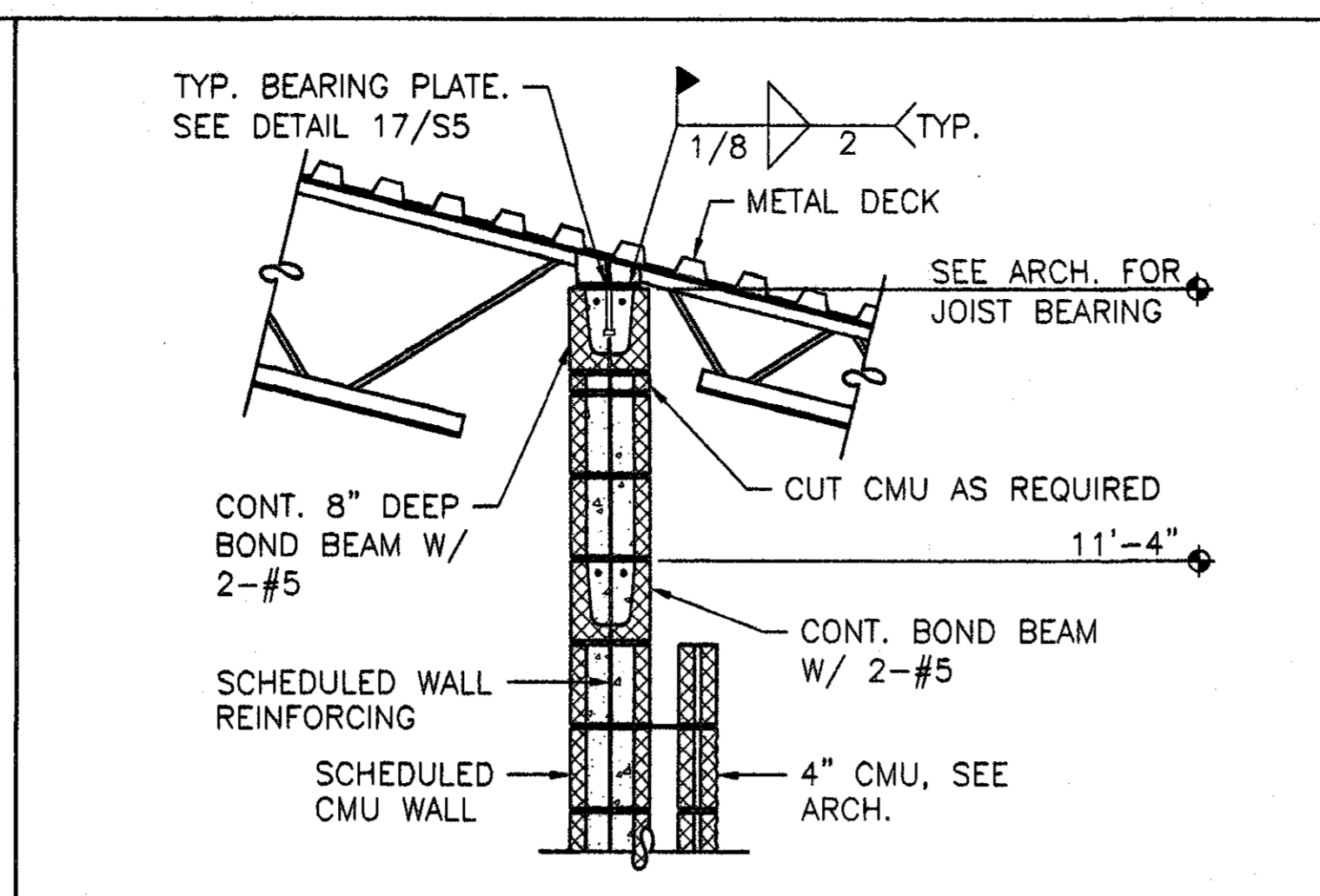
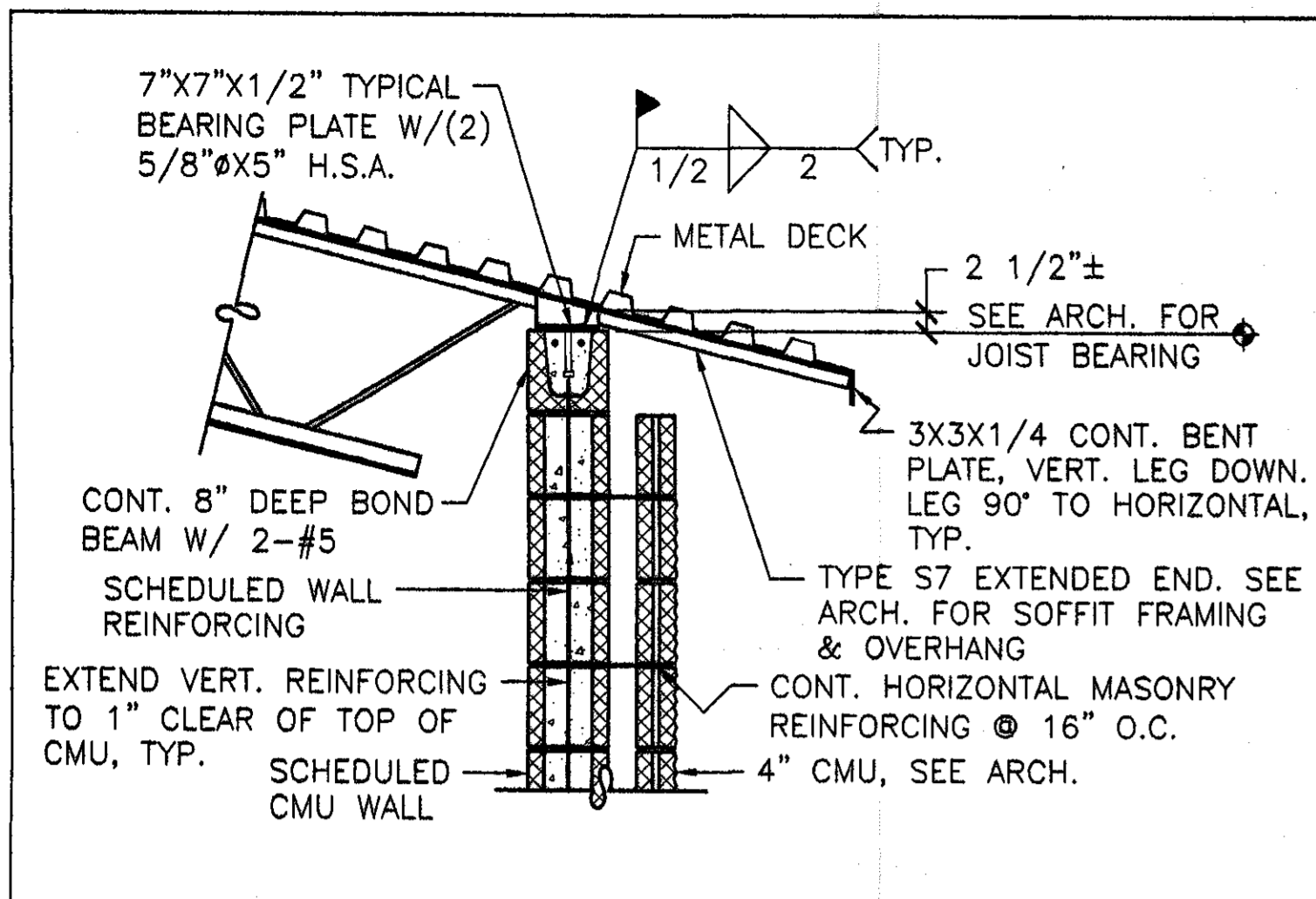
**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 8806  
Montgomery, Alabama 36109  
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**MECH. & ELEC. ENGINEER**  
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922 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**  
6-1-019  
STATE OF ALABAMA  
METER ELLIOTT NUMBER  
2923  
REGISTERED ARCHITECT

Issue	date
Construction Dwg	8.17.01

drawn by: SWA  
**STRUCTURAL DETAILS**  
95% SUBMITTAL  
**S4**  
sheet of

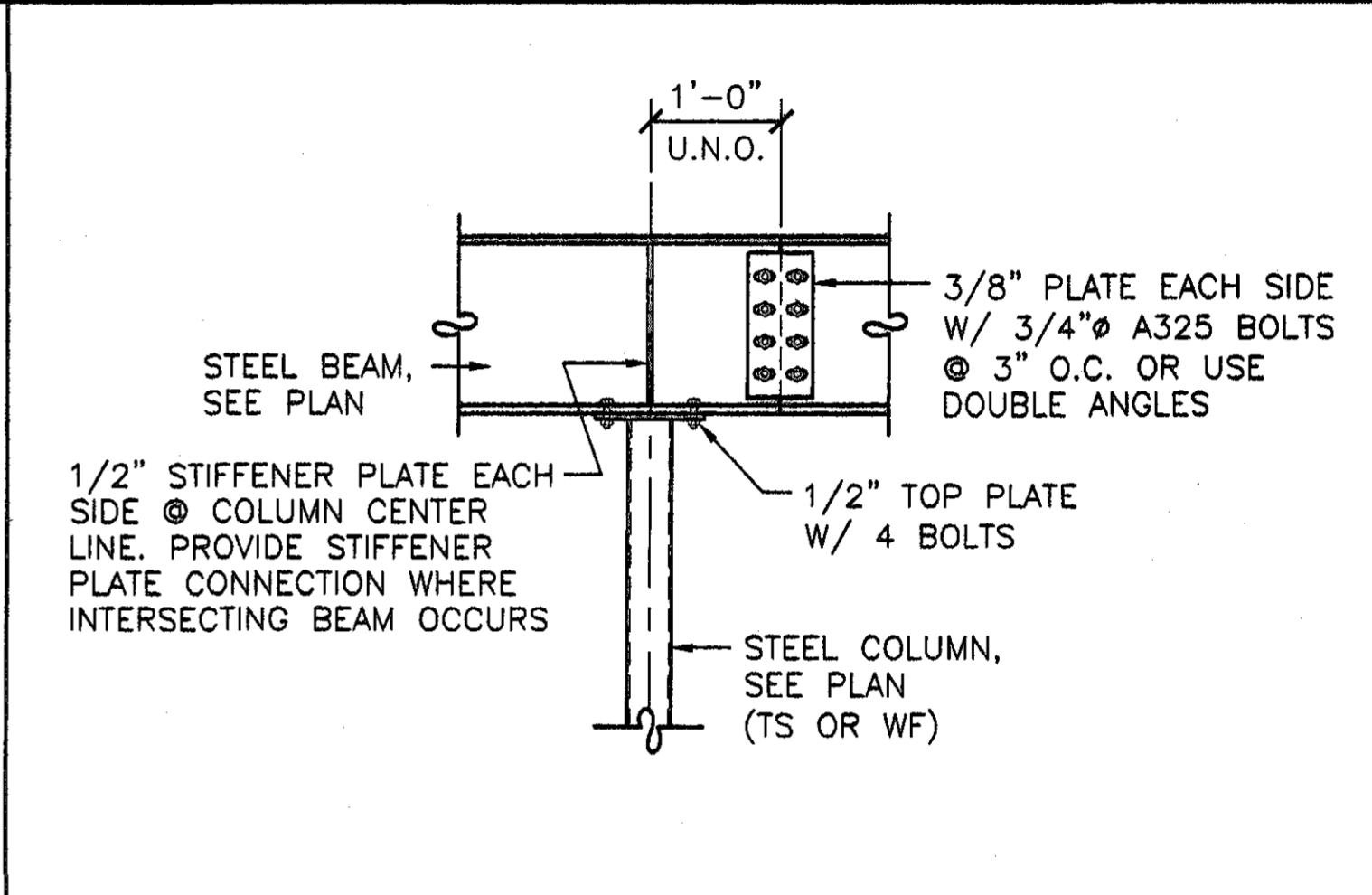
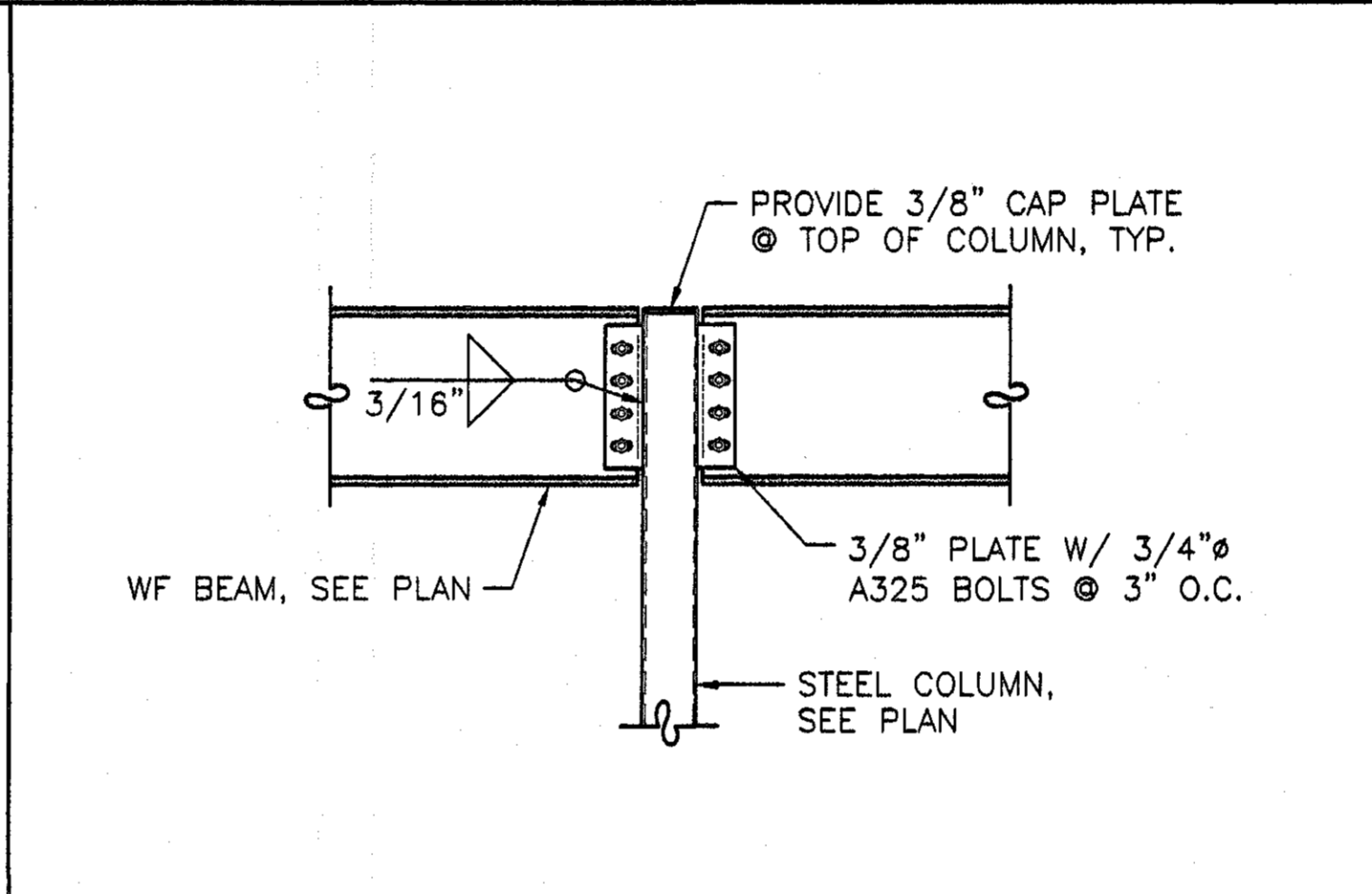
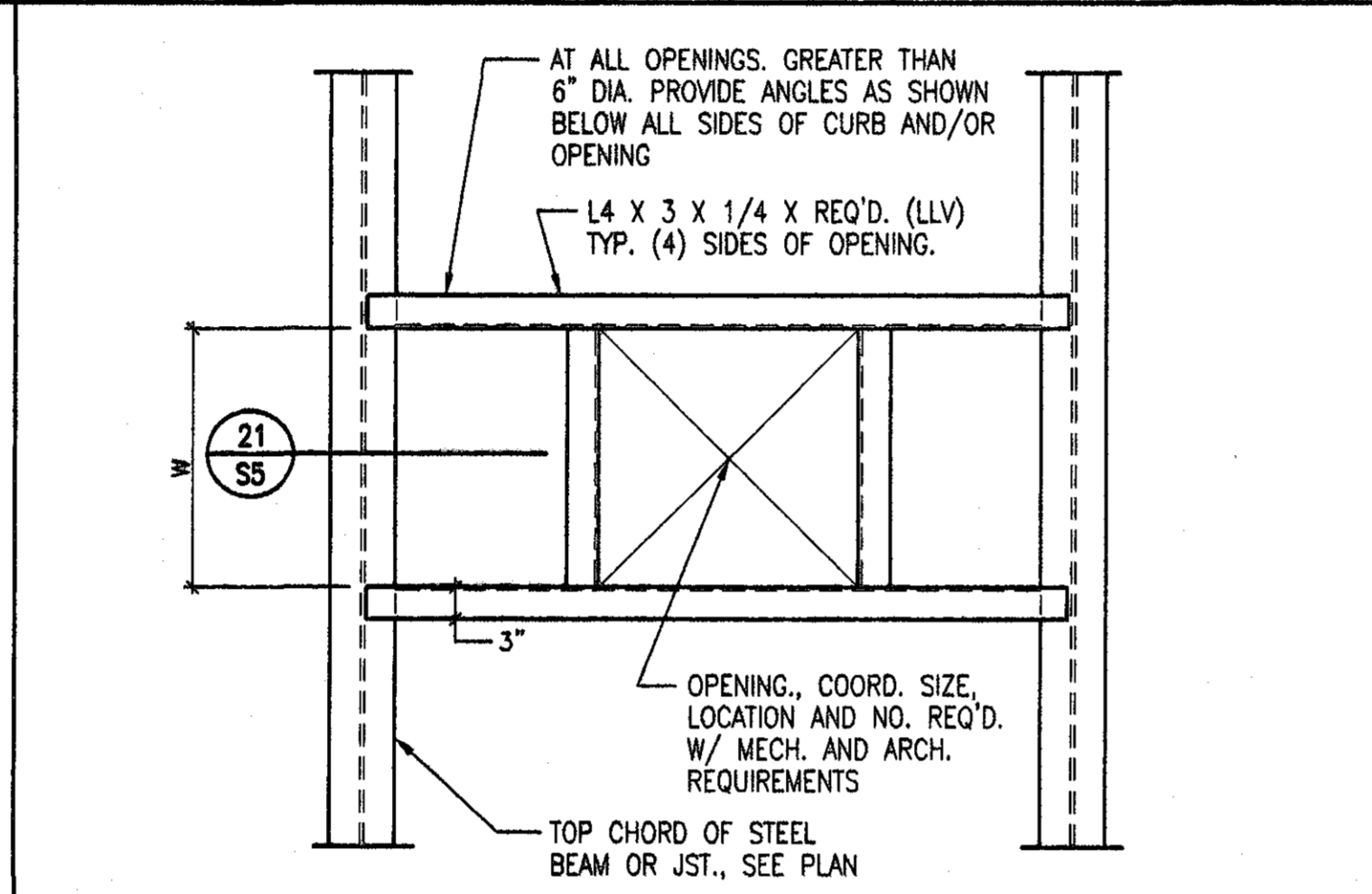
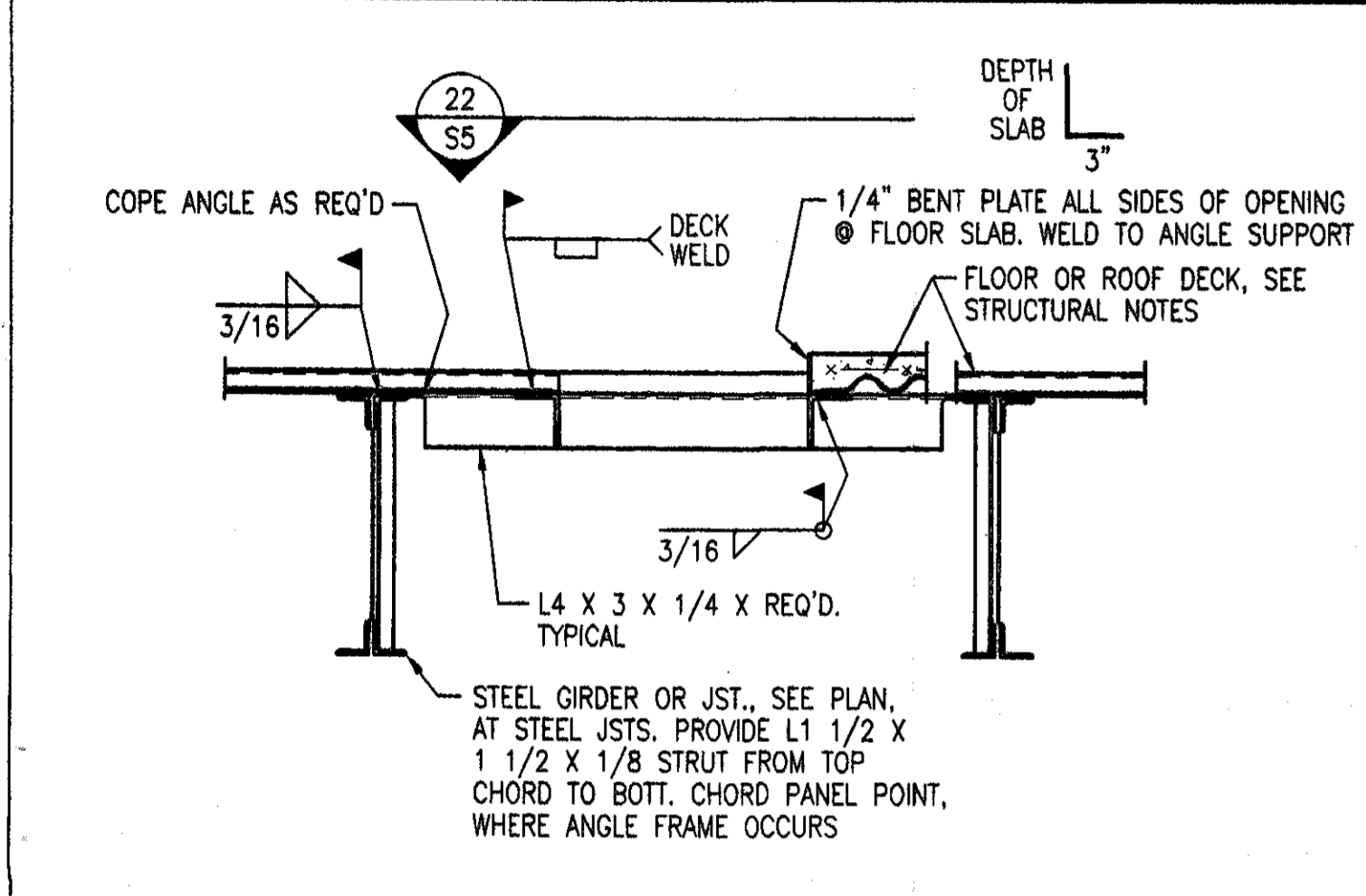


DETAIL 17 SCALE: 3/4"=1'-0"

DETAIL 18 SCALE: 3/4"=1'-0"

DETAIL 19 SCALE: 3/4"=1'-0"

DETAIL 20 SCALE: 3/4"=1'-0"

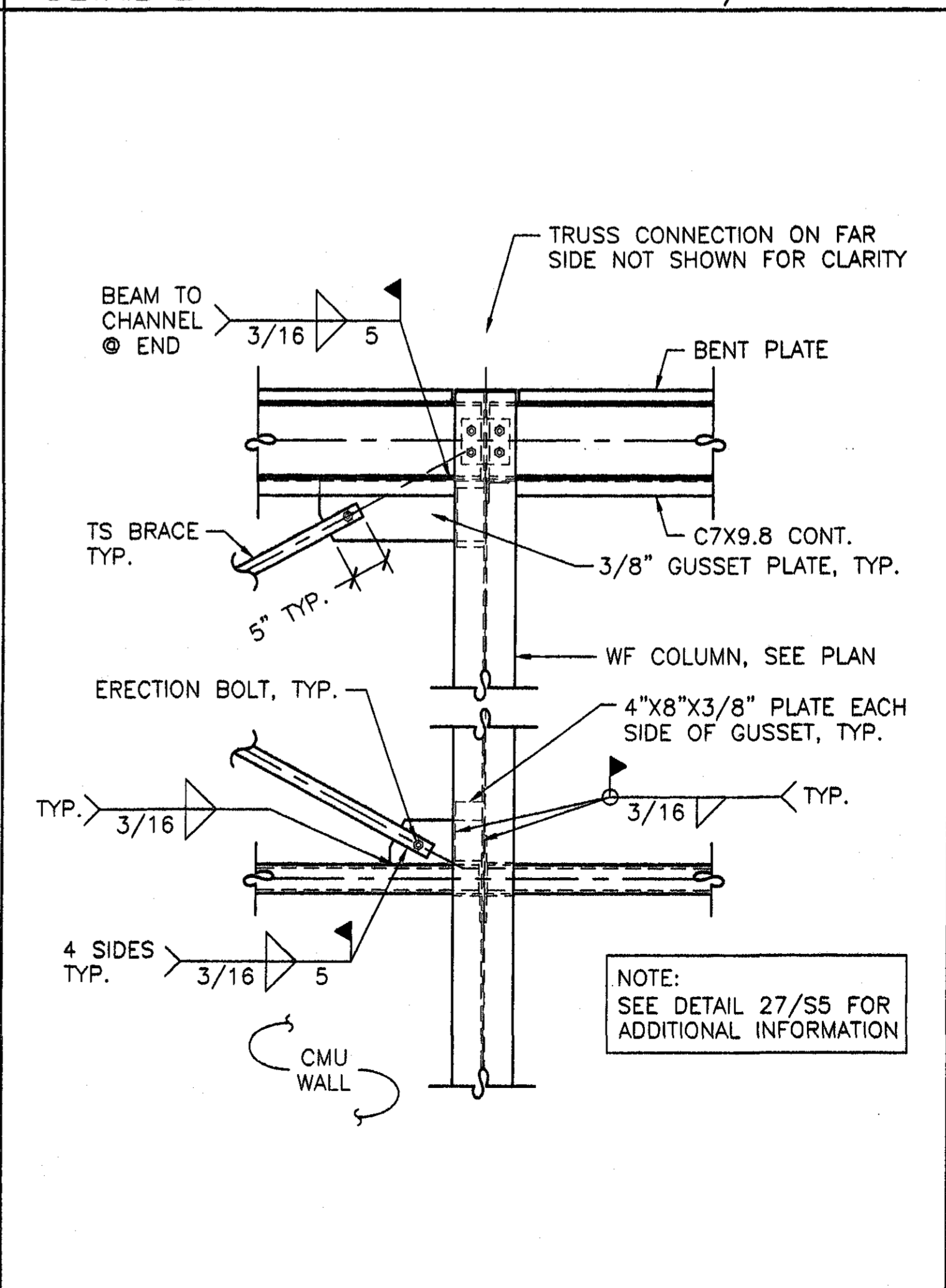
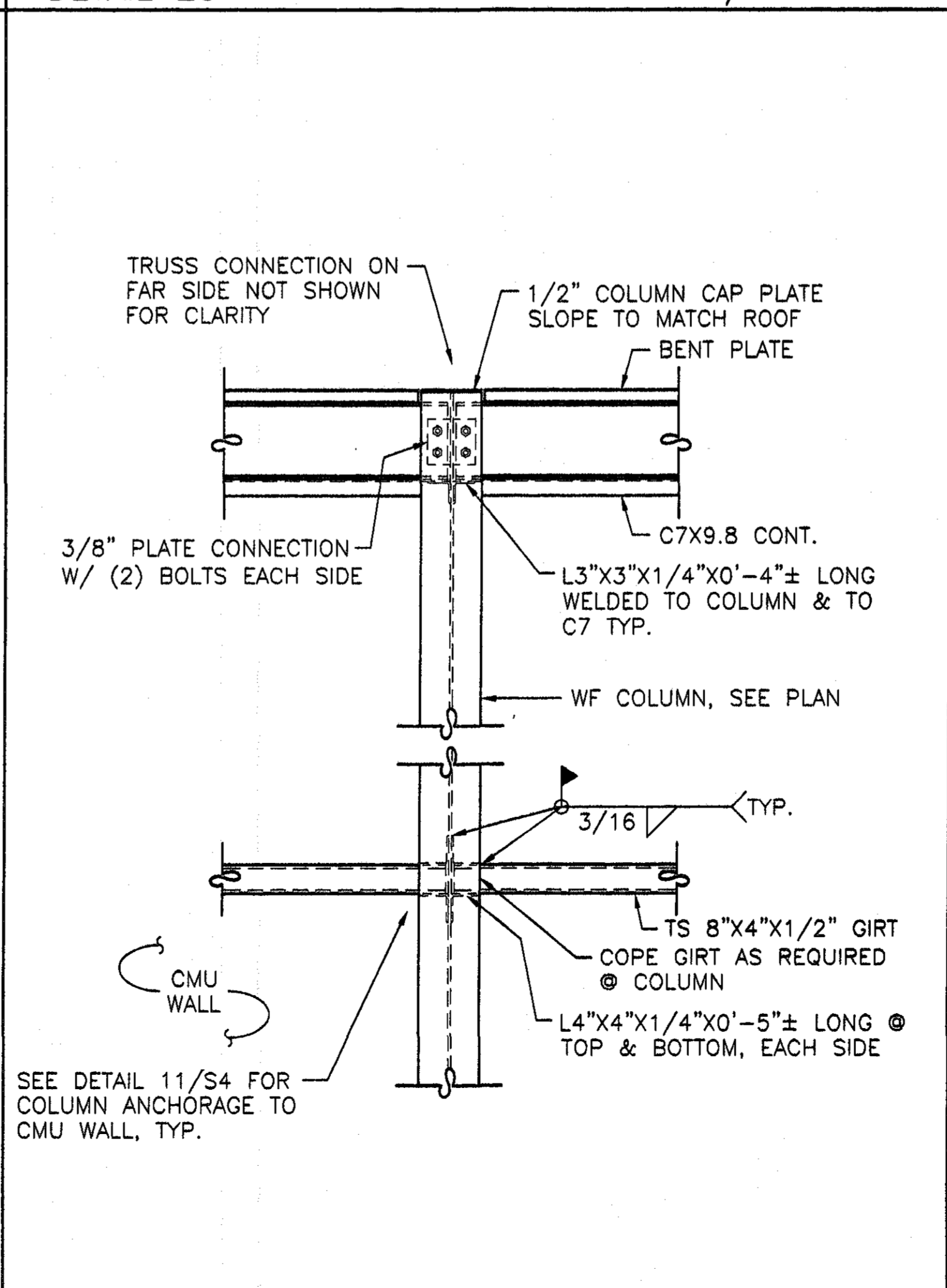
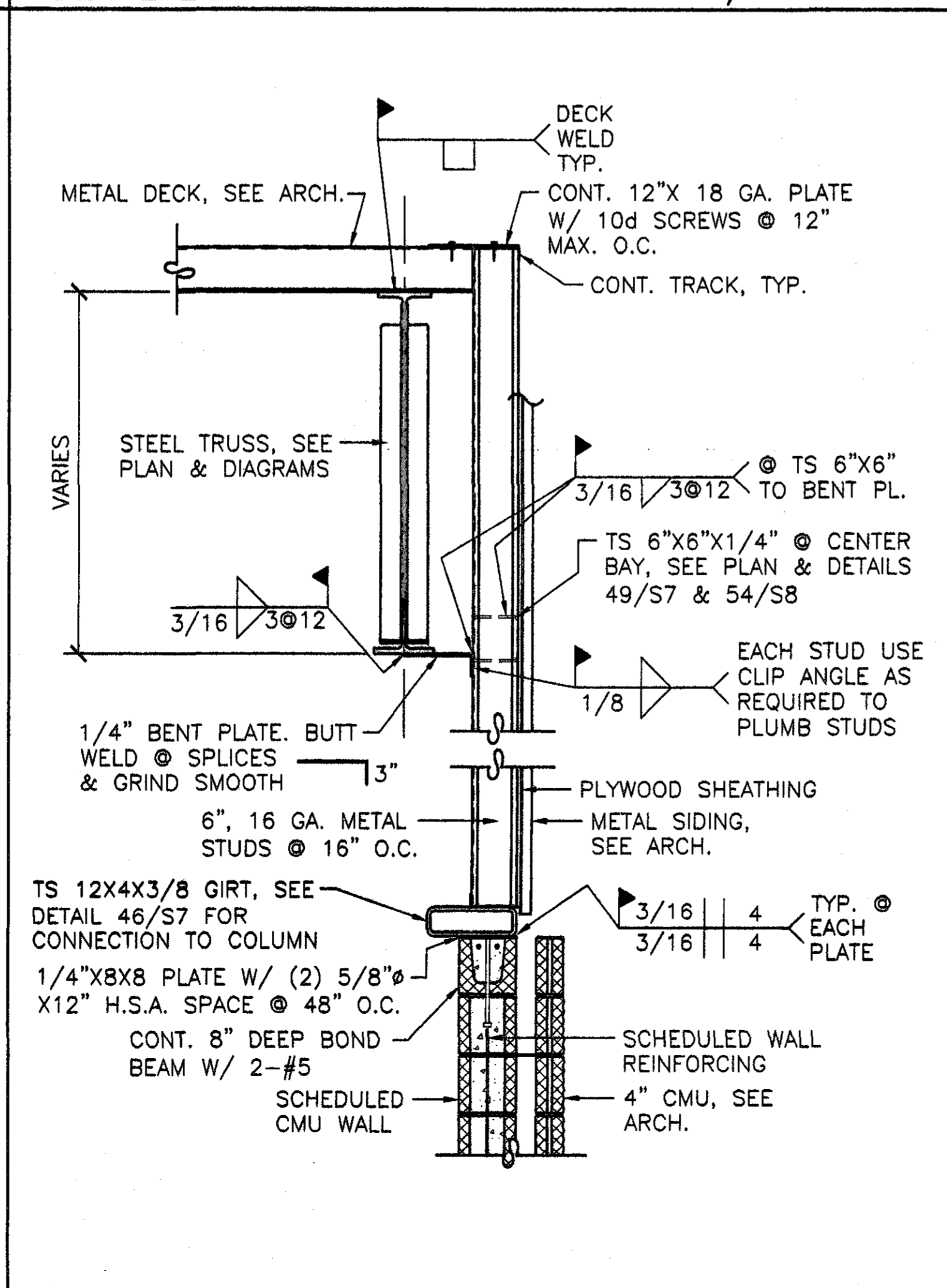
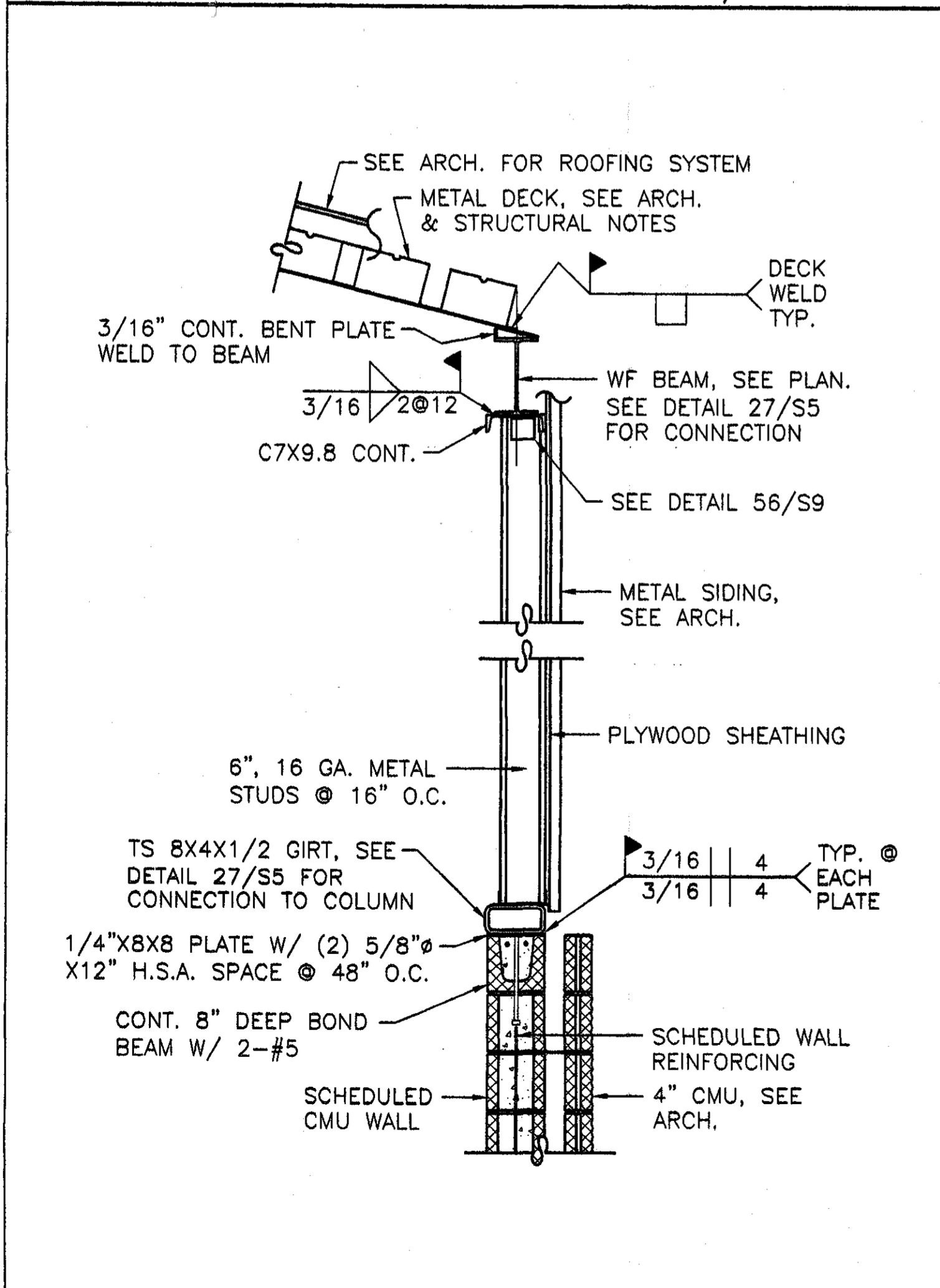


DETAIL 21 SCALE: 3/4"=1'-0"

DETAIL 22 SCALE: 3/4"=1'-0"

DETAIL 23 SCALE: 3/4"=1'-0"

DETAIL 24 SCALE: 3/4"=1'-0"



DETAIL 25 SCALE: 3/4"=1'-0"

DETAIL 26 SCALE: 3/4"=1'-0"

DETAIL 27 SCALE: 3/4"=1'-0"

DETAIL 28 SCALE: 3/4"=1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
 125 Interstate Park Drive, P.O. Box 8005  
 Montgomery, Alabama 36109  
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 Fax: (205) 272-1999  
 1102 South 20<sup>th</sup> Street  
 Birmingham, Alabama 35205  
 Phone: (205) 678-4482  
 Fax: (205) 678-4488

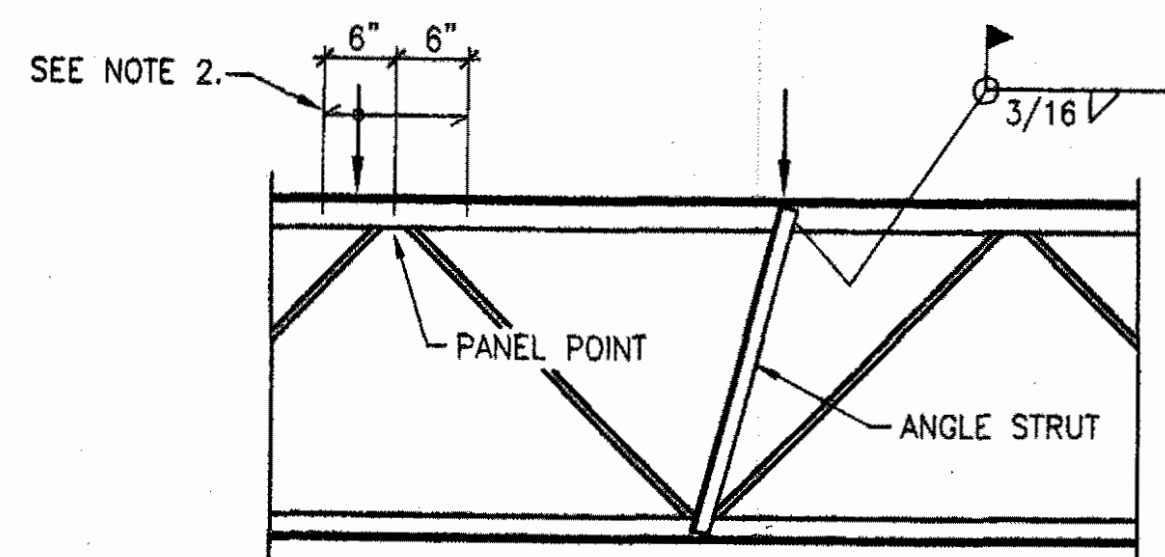
**STRUCTURAL ENGINEER**  
 Terry Grant, P.E.  
 525 North Hill Street  
 Montgomery, Alabama 36104  
 Phone: (205) 265-4631  
**MECH. & ELEC. ENGINEER**  
 Gordon & Morris Consulting Engineers, Inc.  
 909 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (205) 269-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

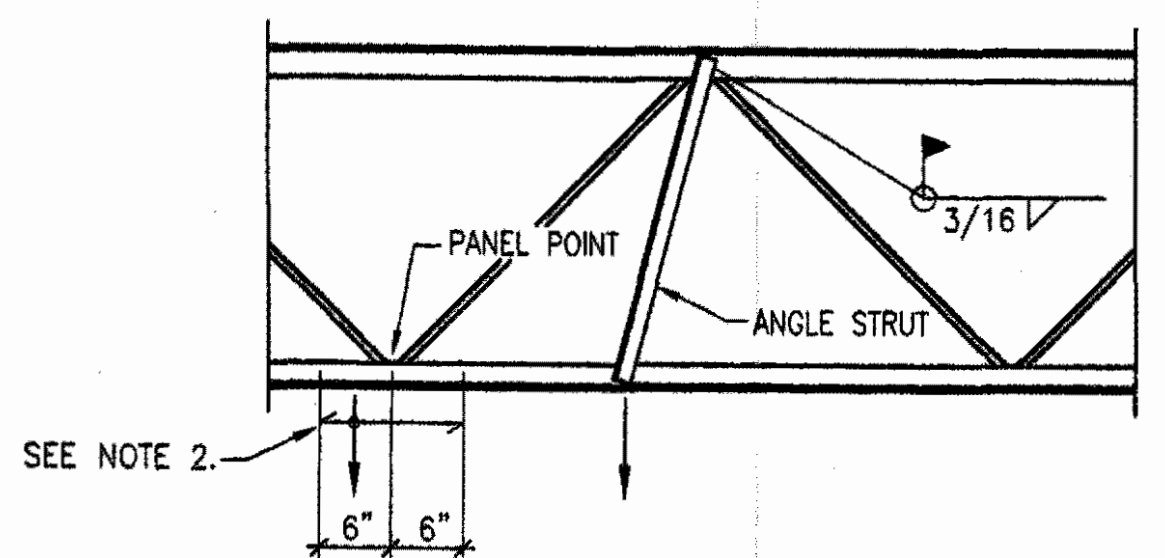
6-1-019  
 STATE OF ALABAMA  
 WILLIAM ELLIOTT WELLS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	Date
Construction Dwg	8.17.01

drawn by: SVA  
**STRUCTURAL DETAILS**  
 95% SUBMITTAL  
**S5**  
 sheet of



CONCENTRATED LOADS ON TOP CHORD OF JOISTS



CONCENTRATED LOADS ON BOTTOM CHORD OF JOISTS

NOTES:

1) PROVIDE ANGLE STRUTS BETWEEN CONCENTRATED LOAD AND PANEL POINT ON OPPOSITE CHORD WHERE CONCENTRATED LOADS EXCEED 150#. ANGLE STRUT SHALL BE AS FOLLOWS:

DEPTH OF JOIST	ANGLE SIZE
UP TO 30"	L1 1/2 X 1 1/2 X 1/4
30" TO 48"	L2 2 X 2 X 1/4
48" TO 60"	L2 1/2 X 2 1/2 X 1/4

2) WHERE CONCENTRATED LOADS OCCUR WITHIN 6" OF PANEL POINT, NO STRUT IS REQUIRED.

TYPICAL LOAD DETAIL

DETAIL 30

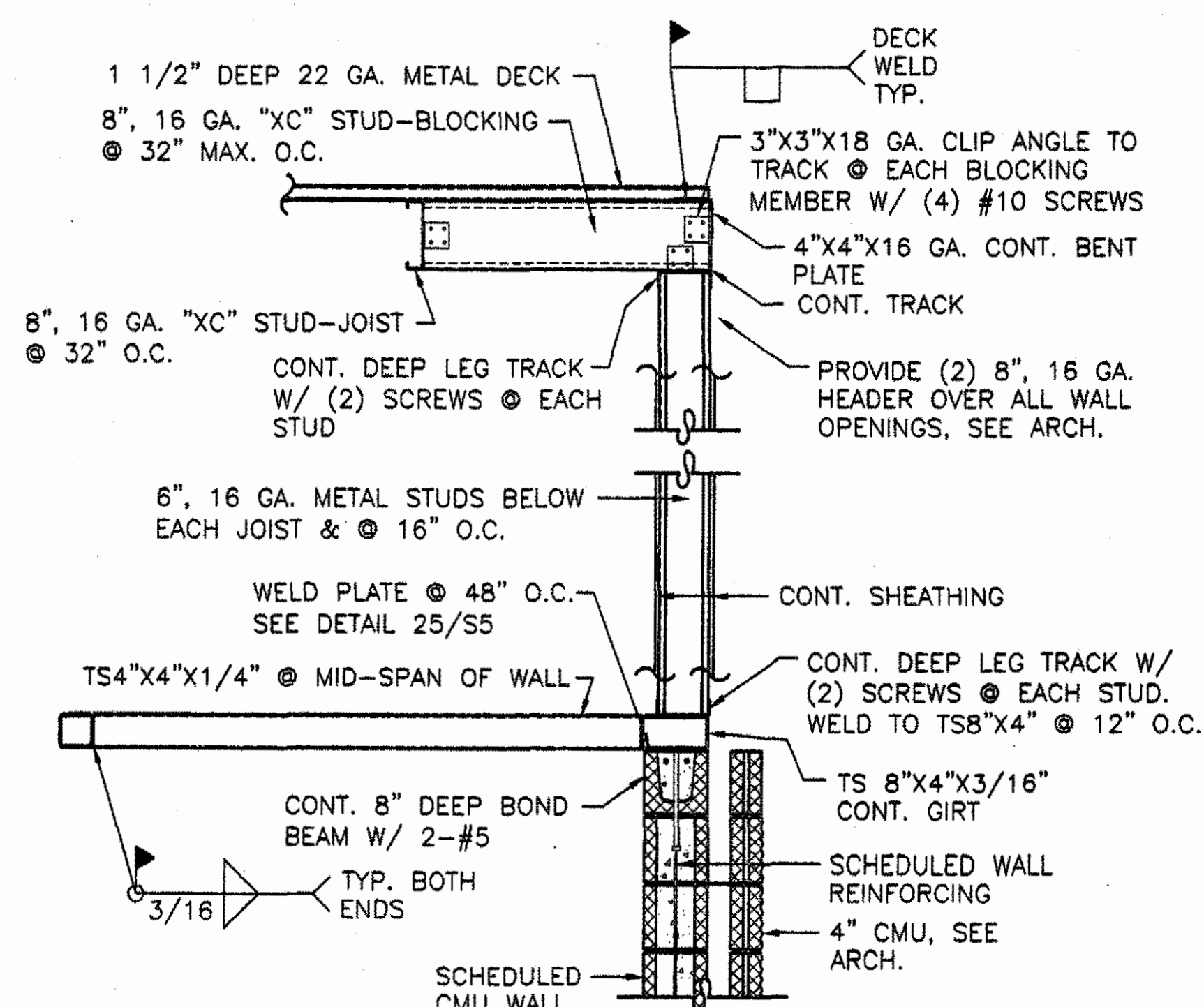
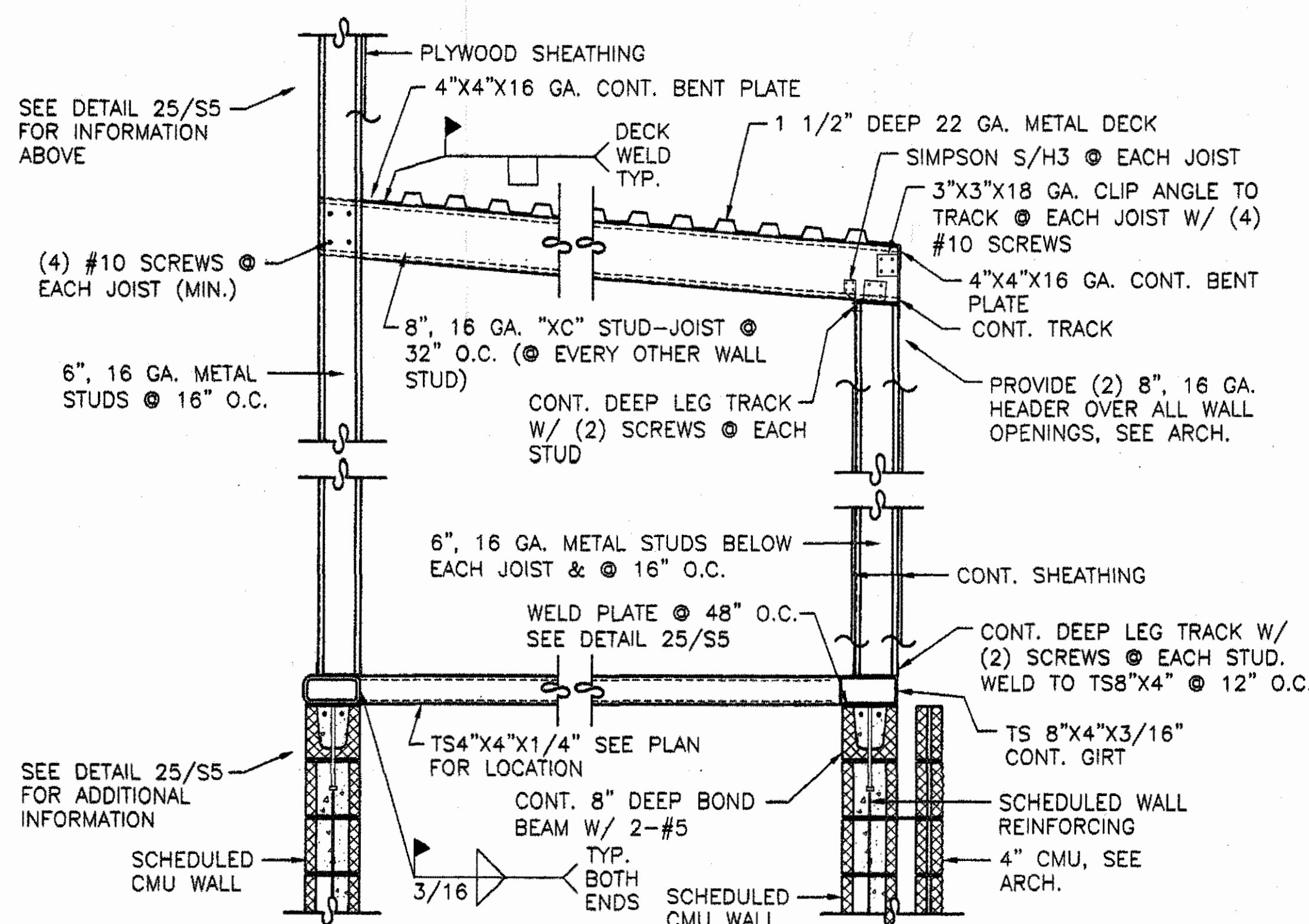
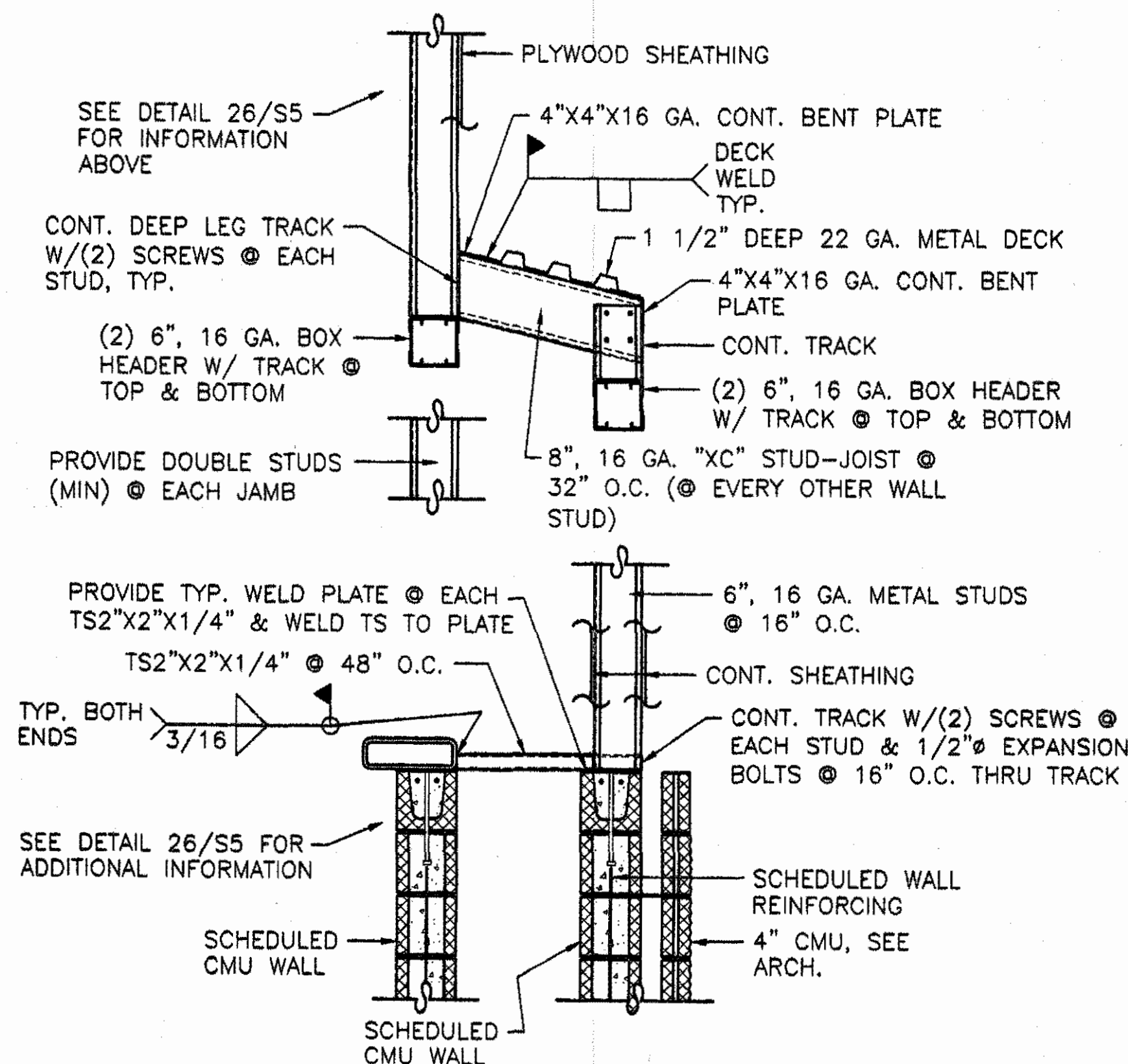
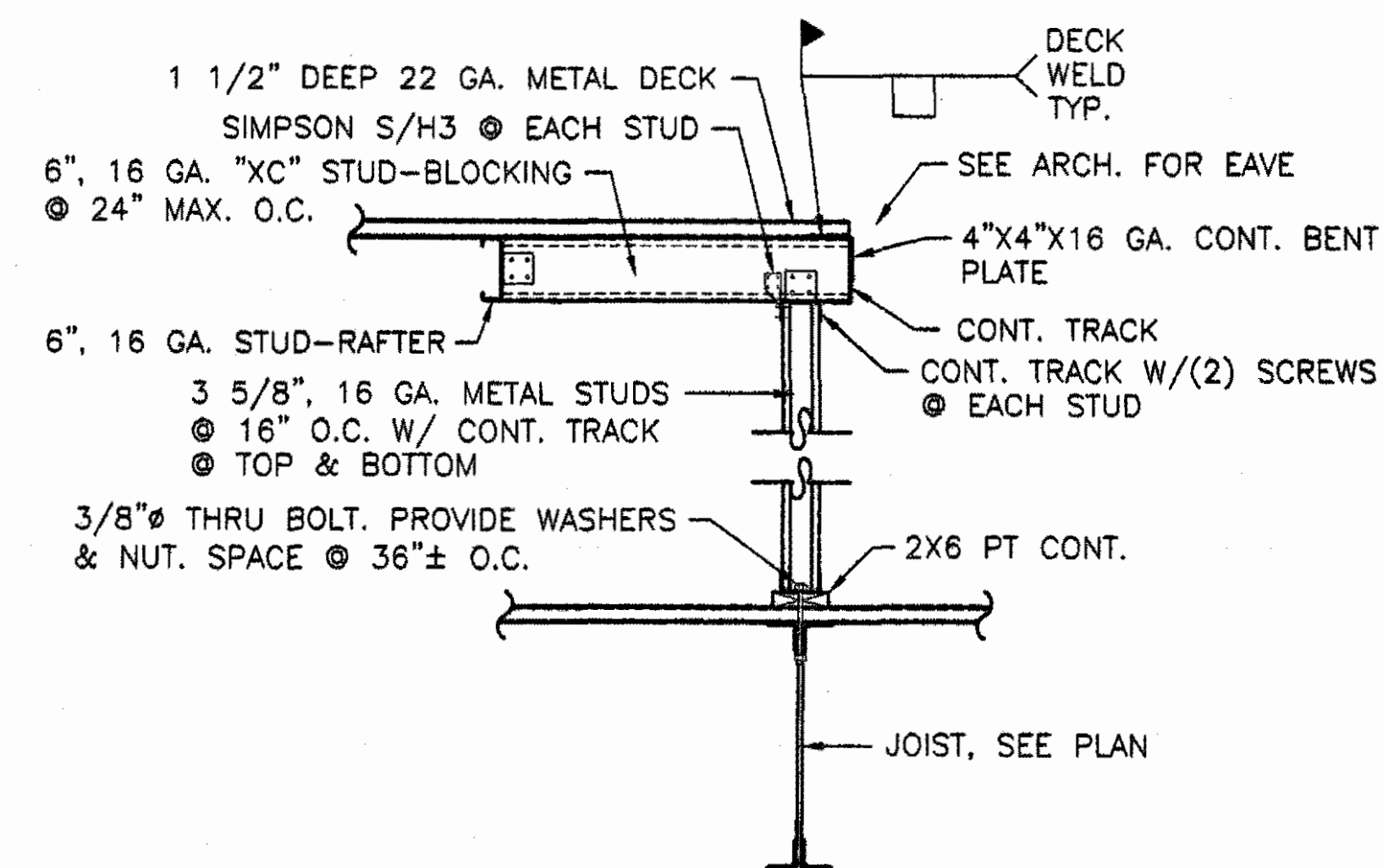
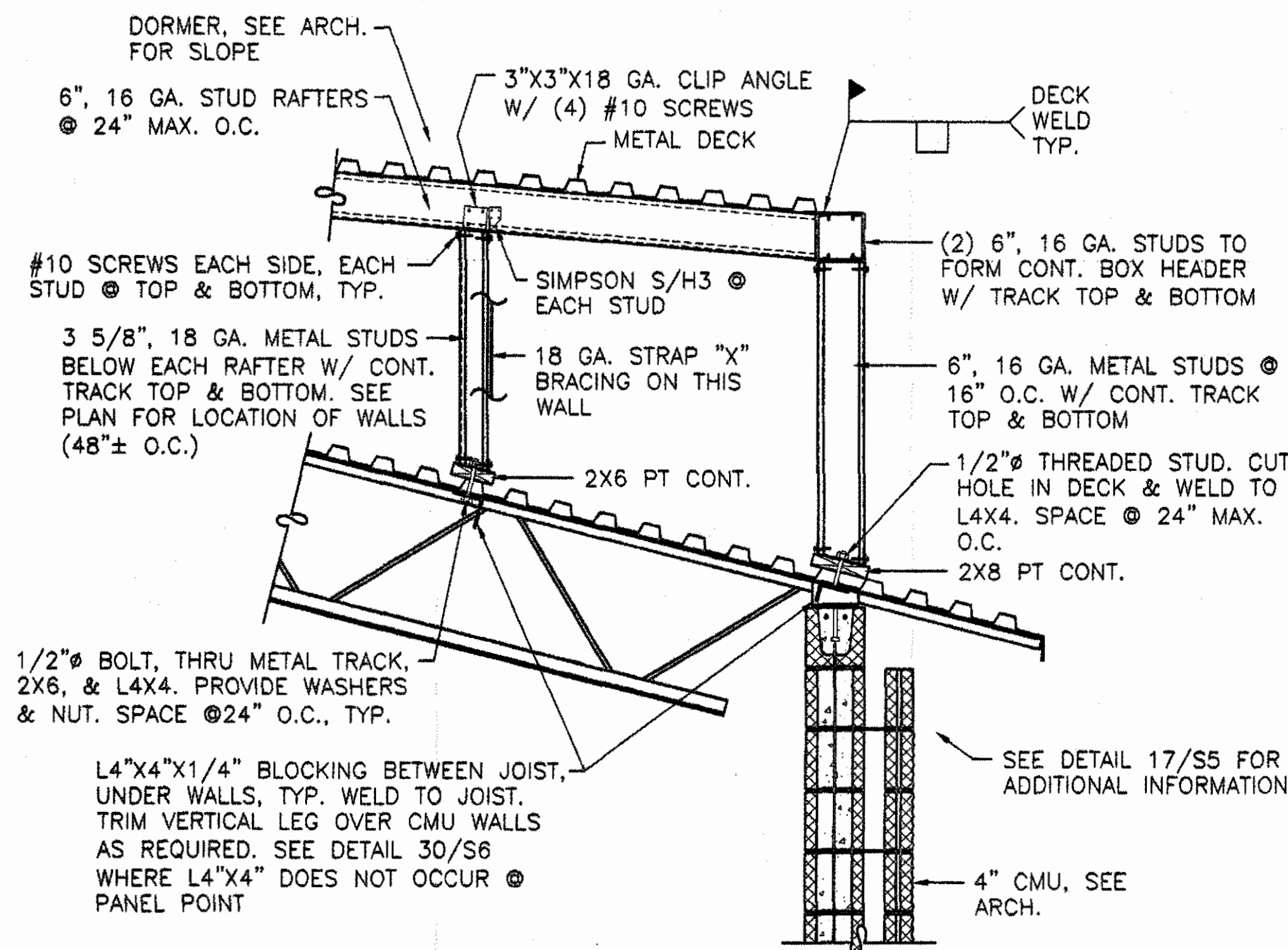
SCALE: 3/4"=1'-0"

DETAIL 34

SCALE: 3/4"=1'-0"

DETAIL 36

SCALE: 3/4"=1'-0"



GOODWYN, MILLS & INC.

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PLANNING

185 Interstate Park Drive, P.O. Box 8805  
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Fax: (205) 272-1090

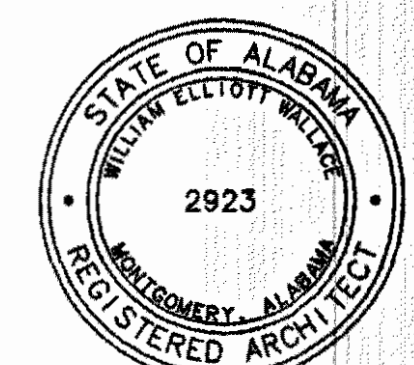
1102 South 20th Street  
Birmingham, Alabama 35205  
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Fax: (205) 878-4495

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MECH. & ELEC. ENGINEER  
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505 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 265-0329

A NEW  
RECREATION  
COMPLEX  
FOR THE  
City of  
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Beach  
Alabama

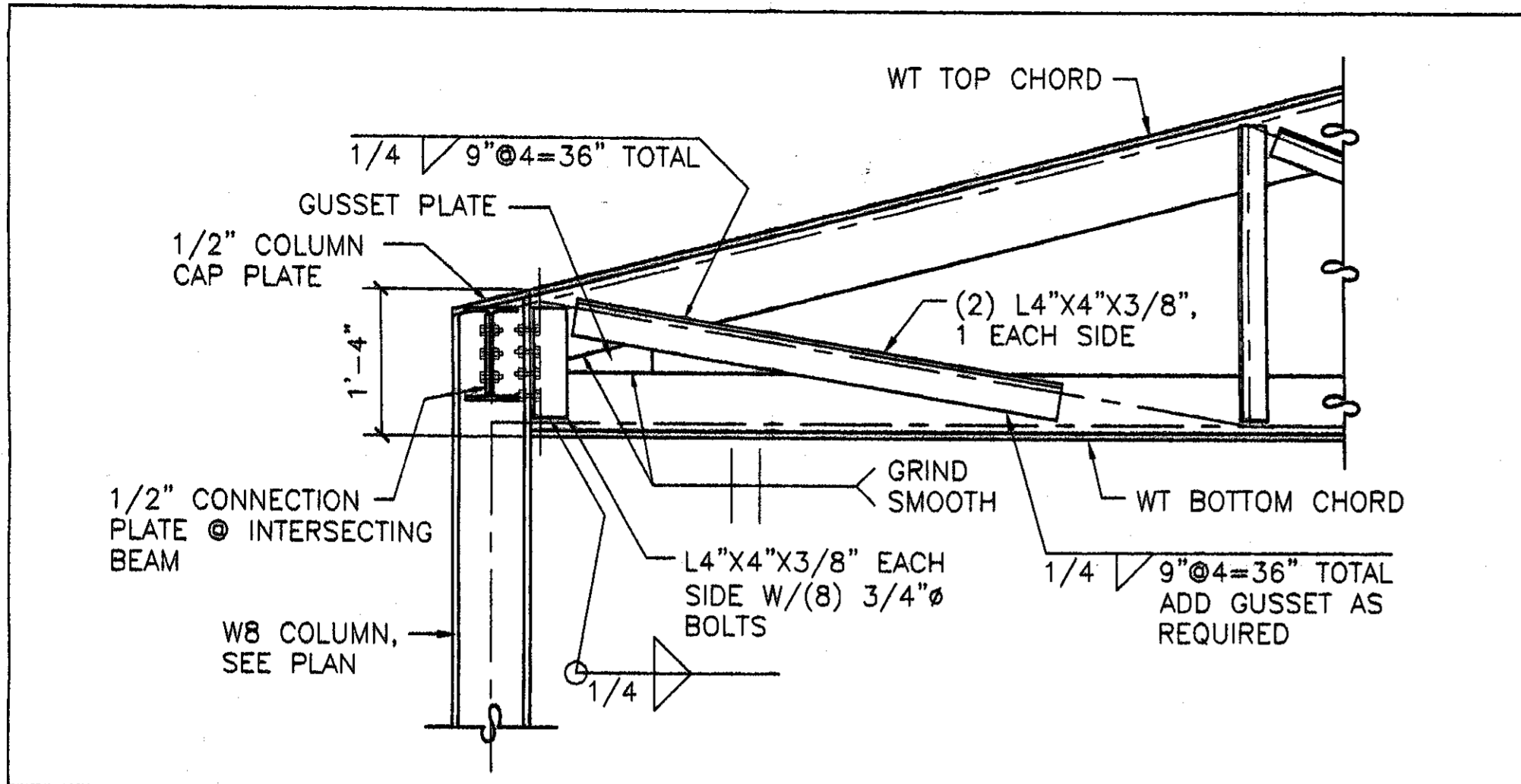
6-1-019



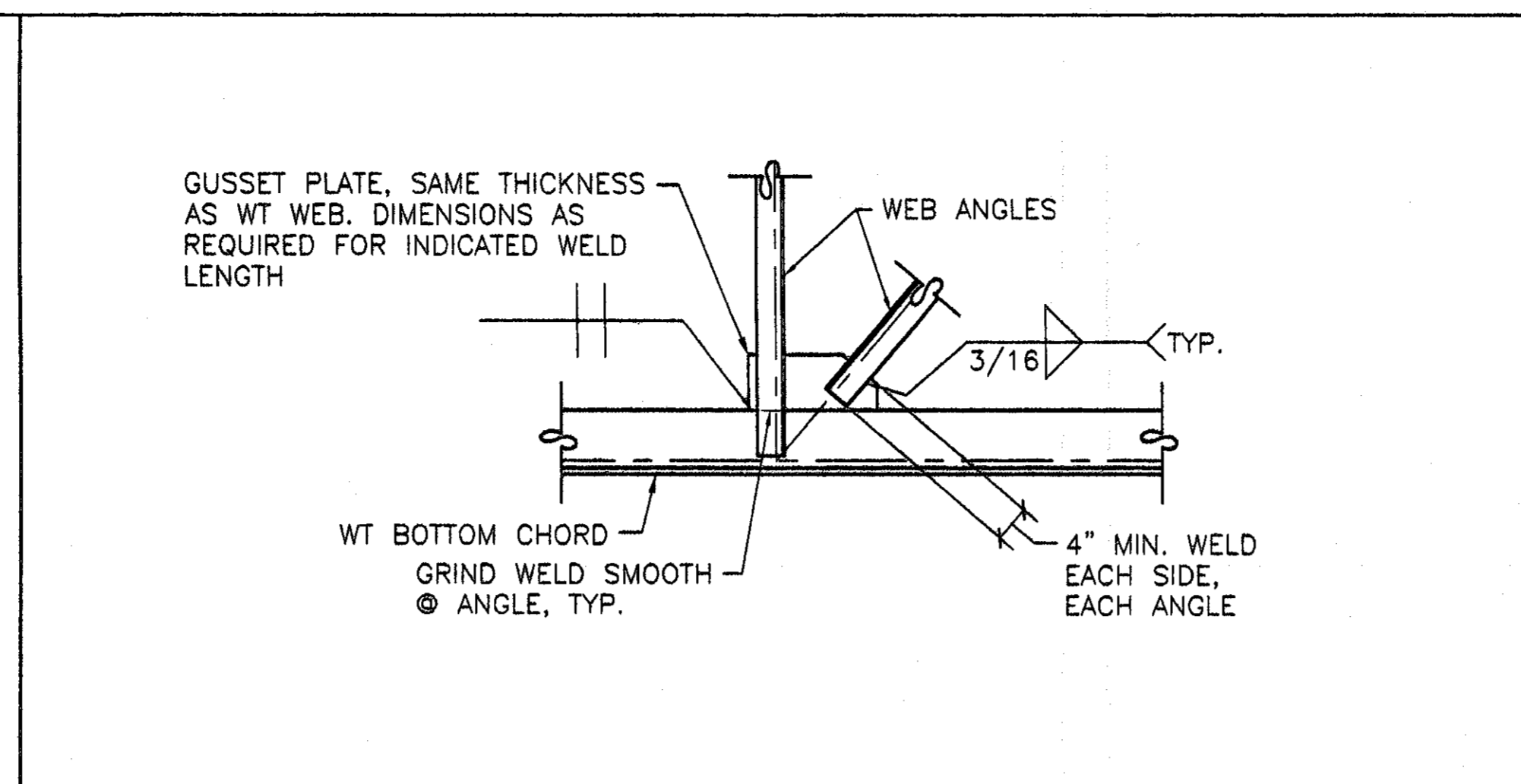
Issue date  
Construction Dwg 8.17.01

drawn by: SWA  
STRUCTURAL  
DETAILS

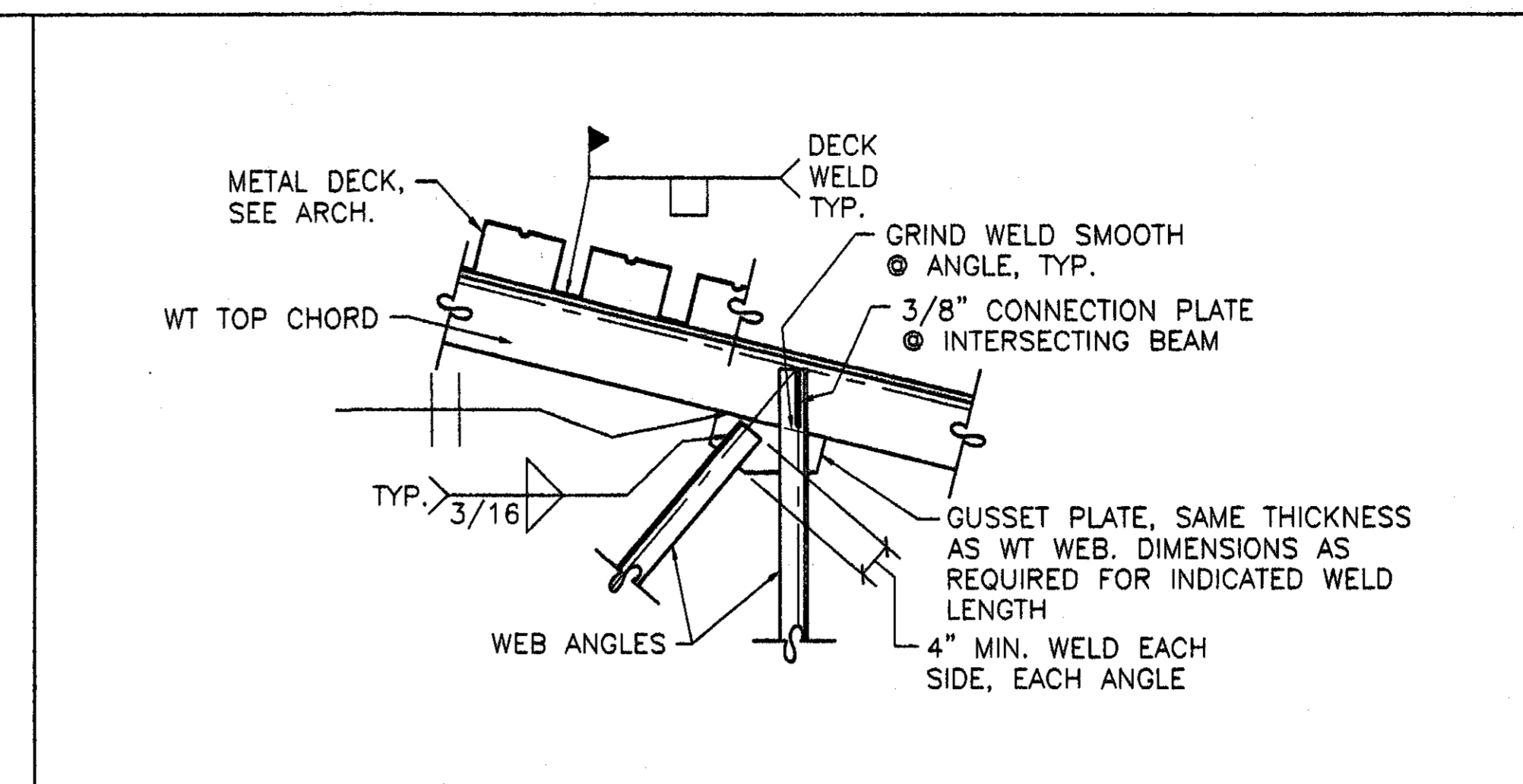
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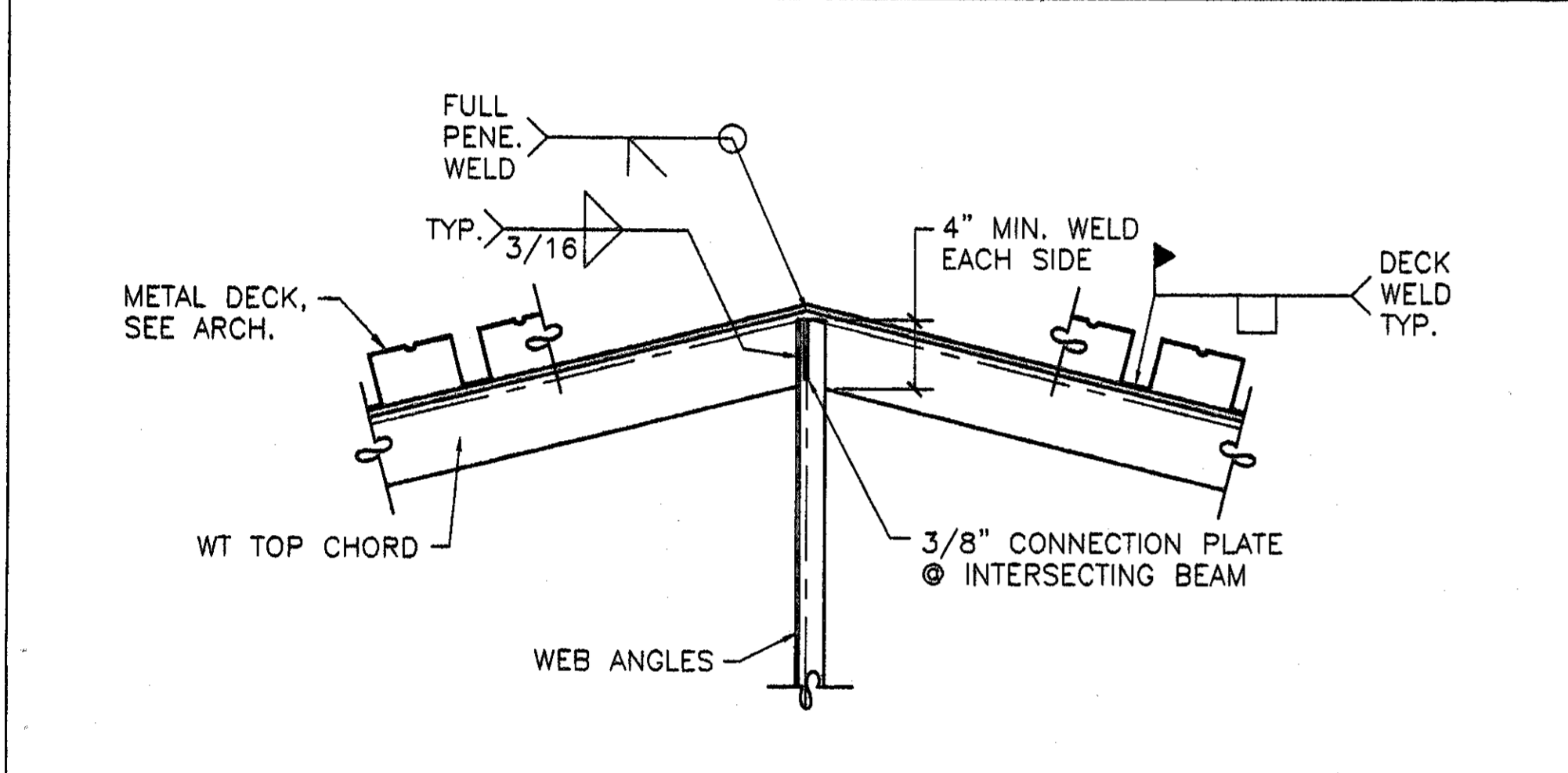
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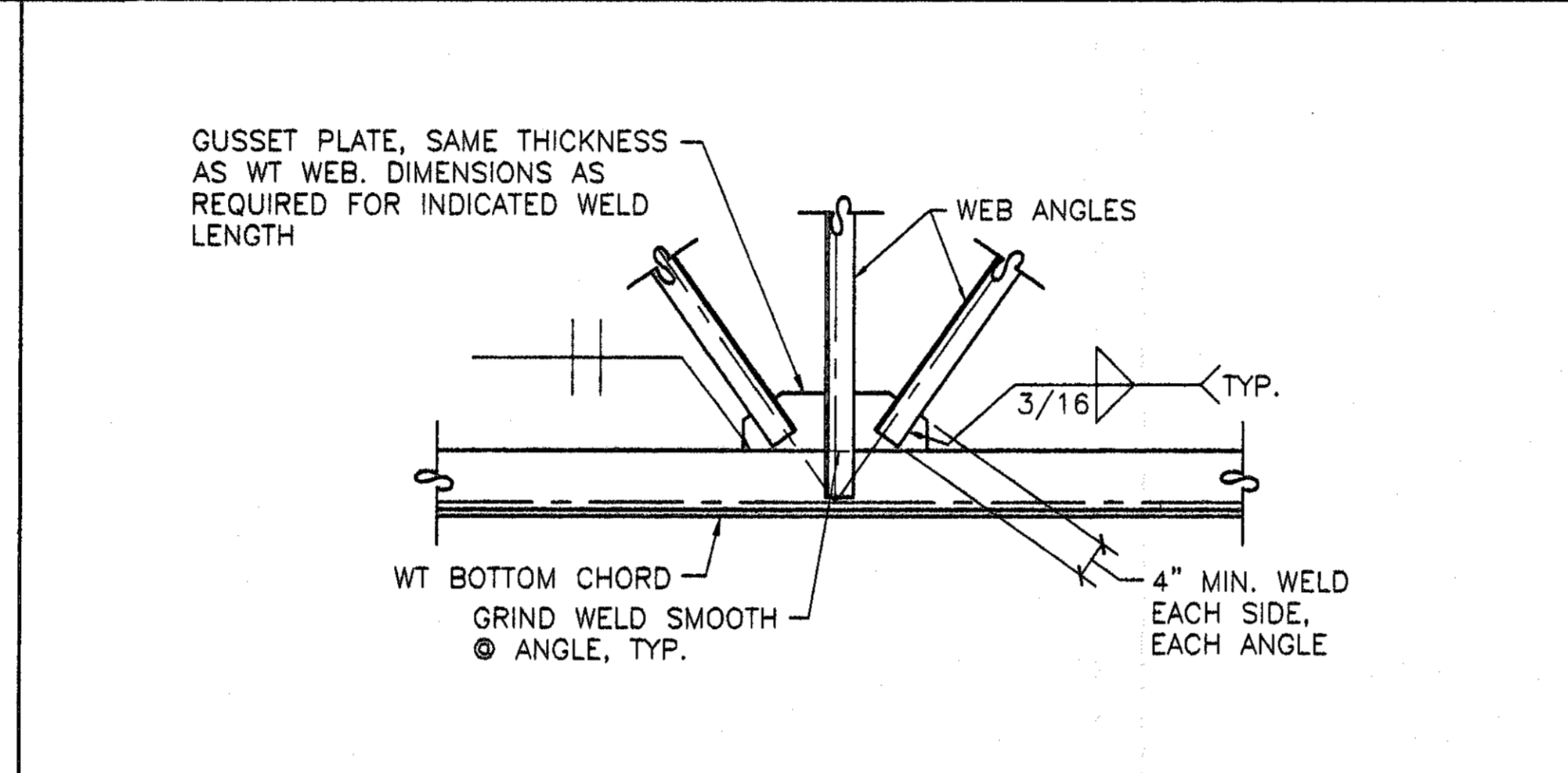
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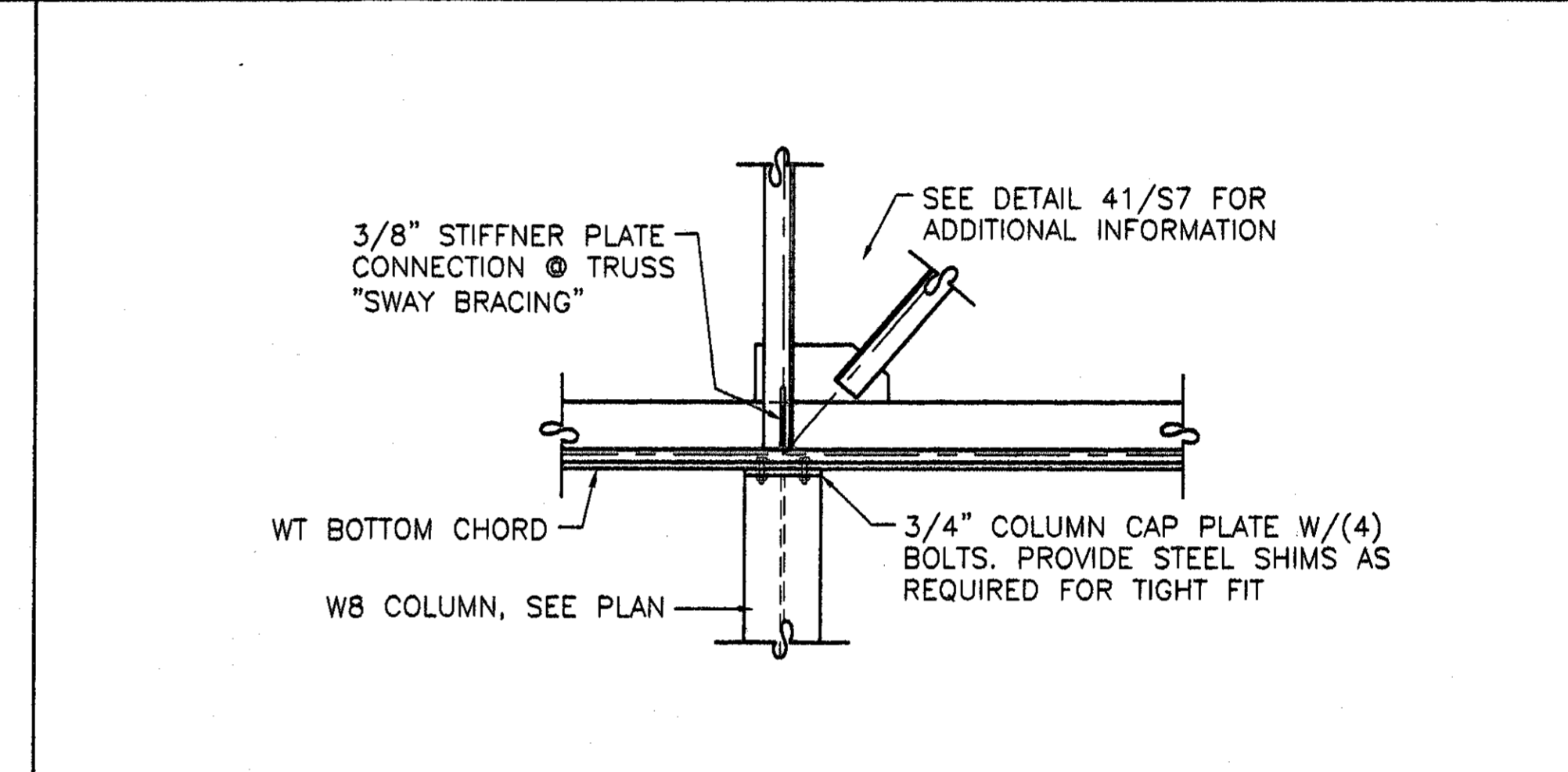
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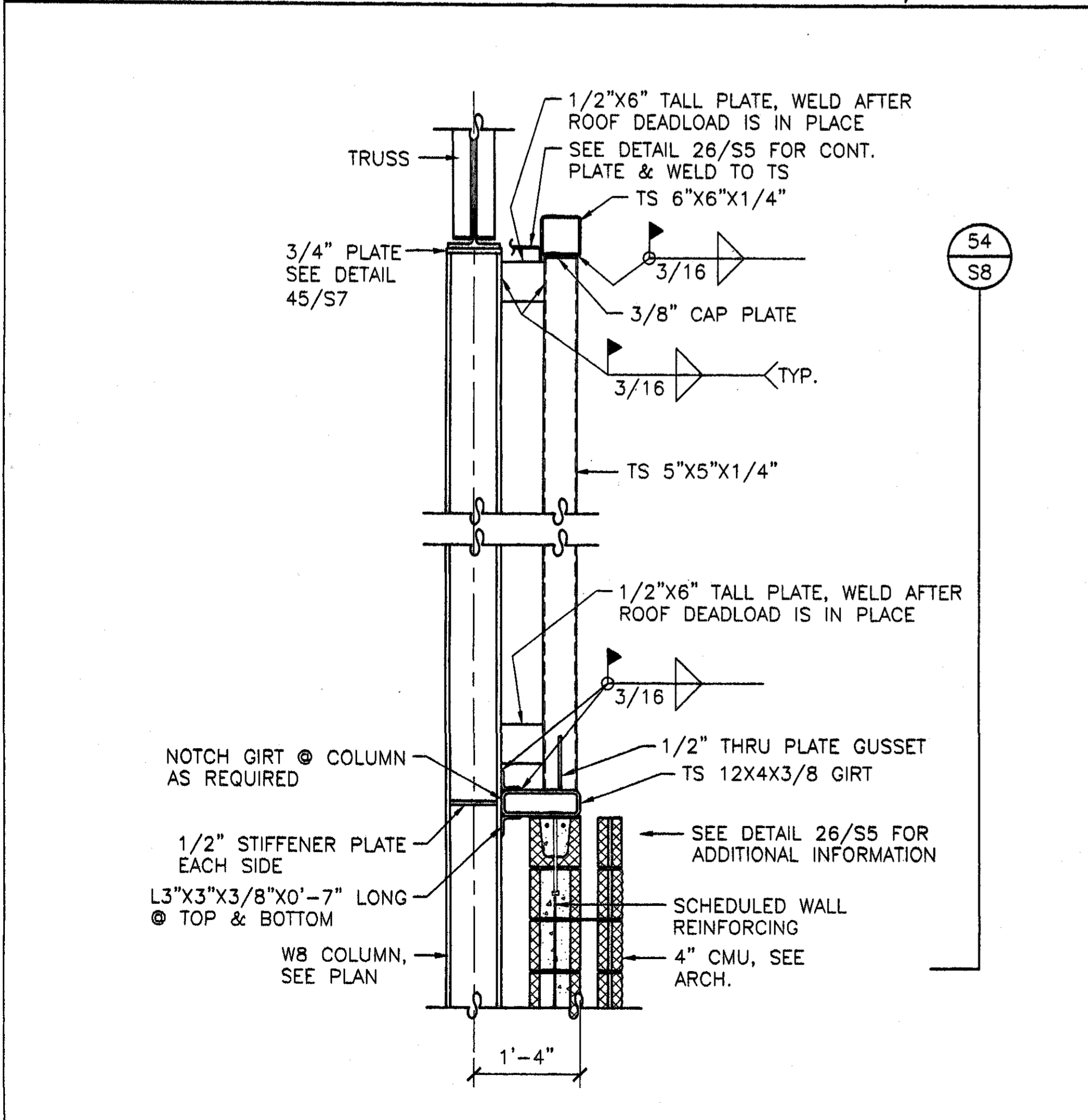
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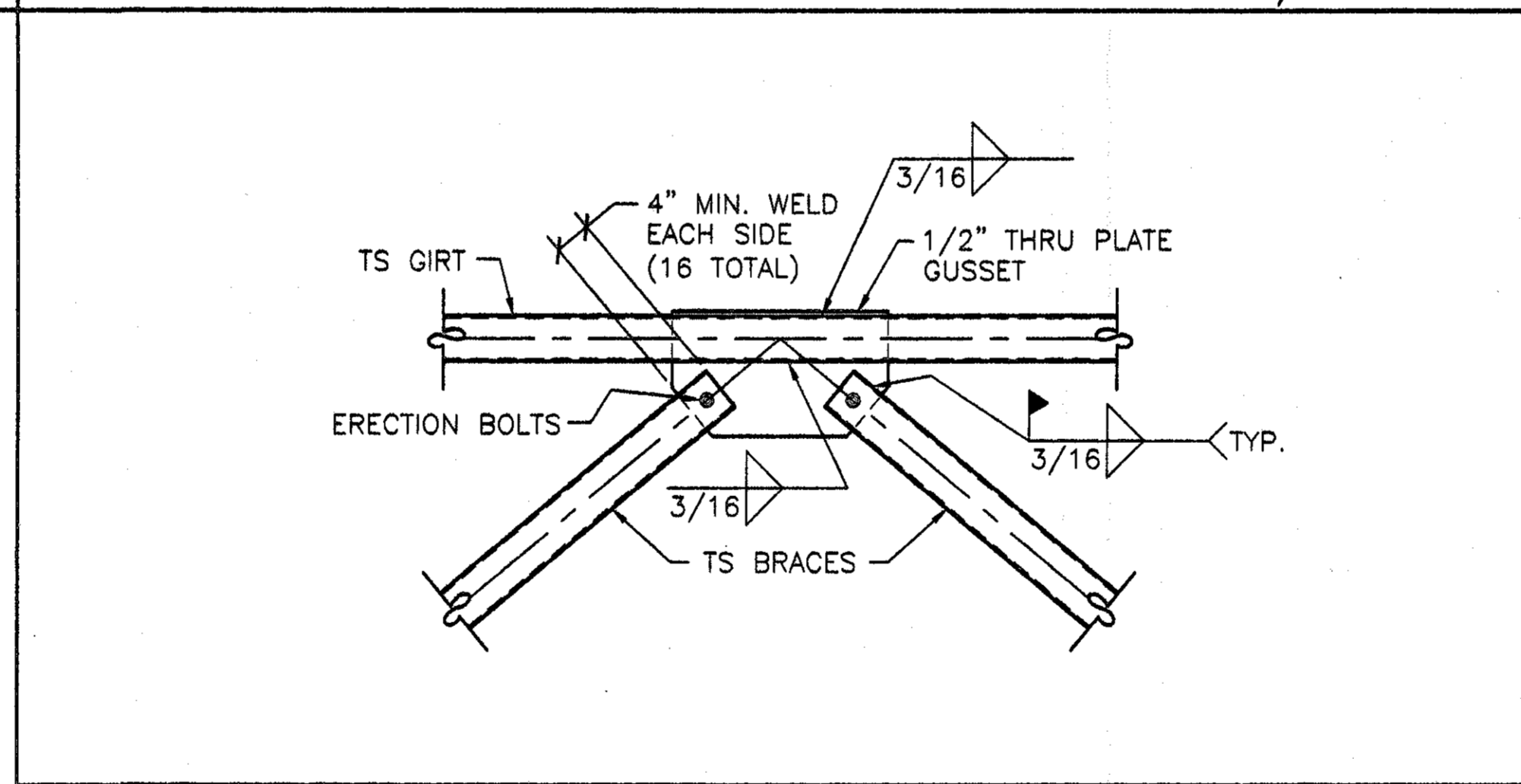
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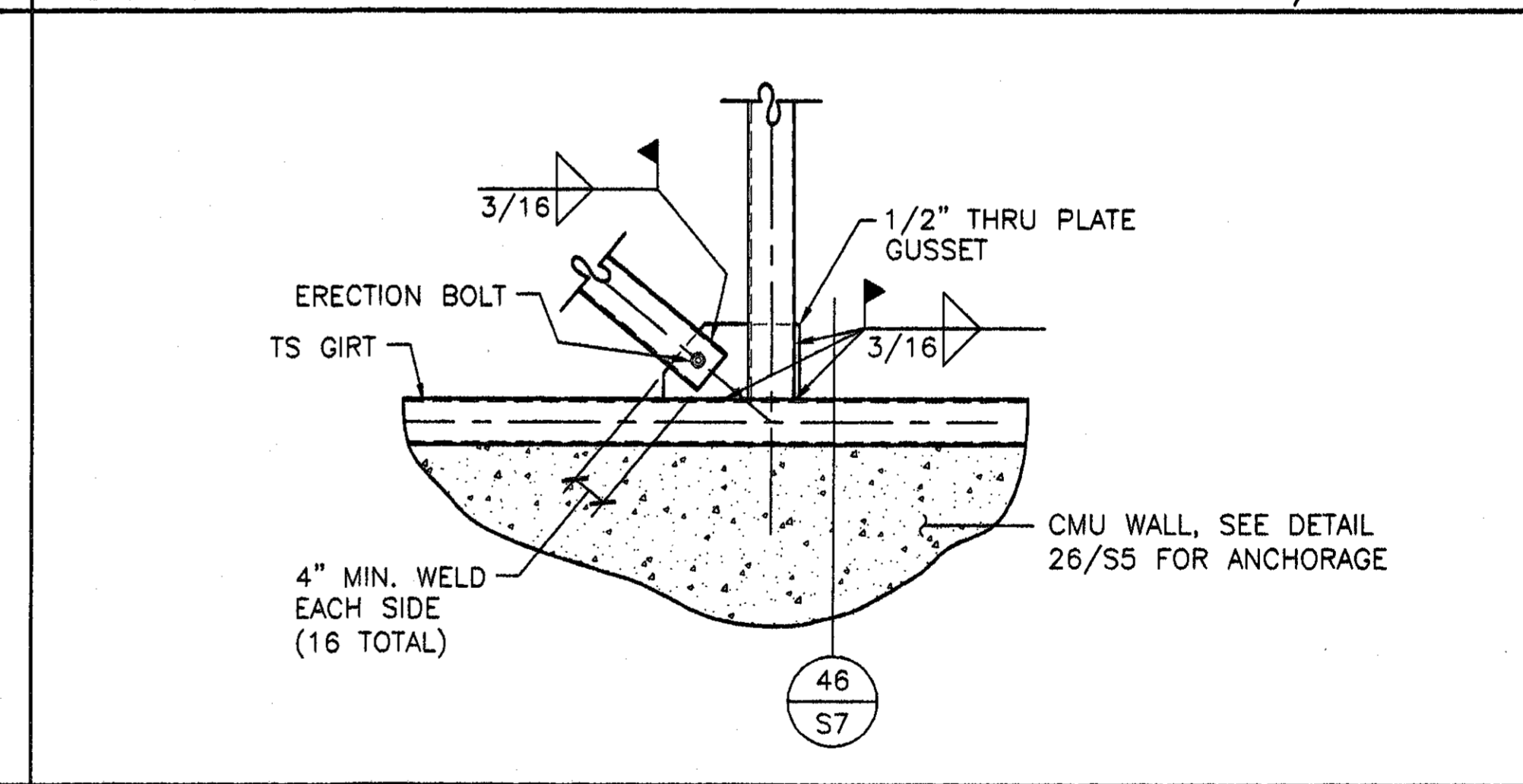
DETAIL 45 SCALE: 3/4"=1'-0"



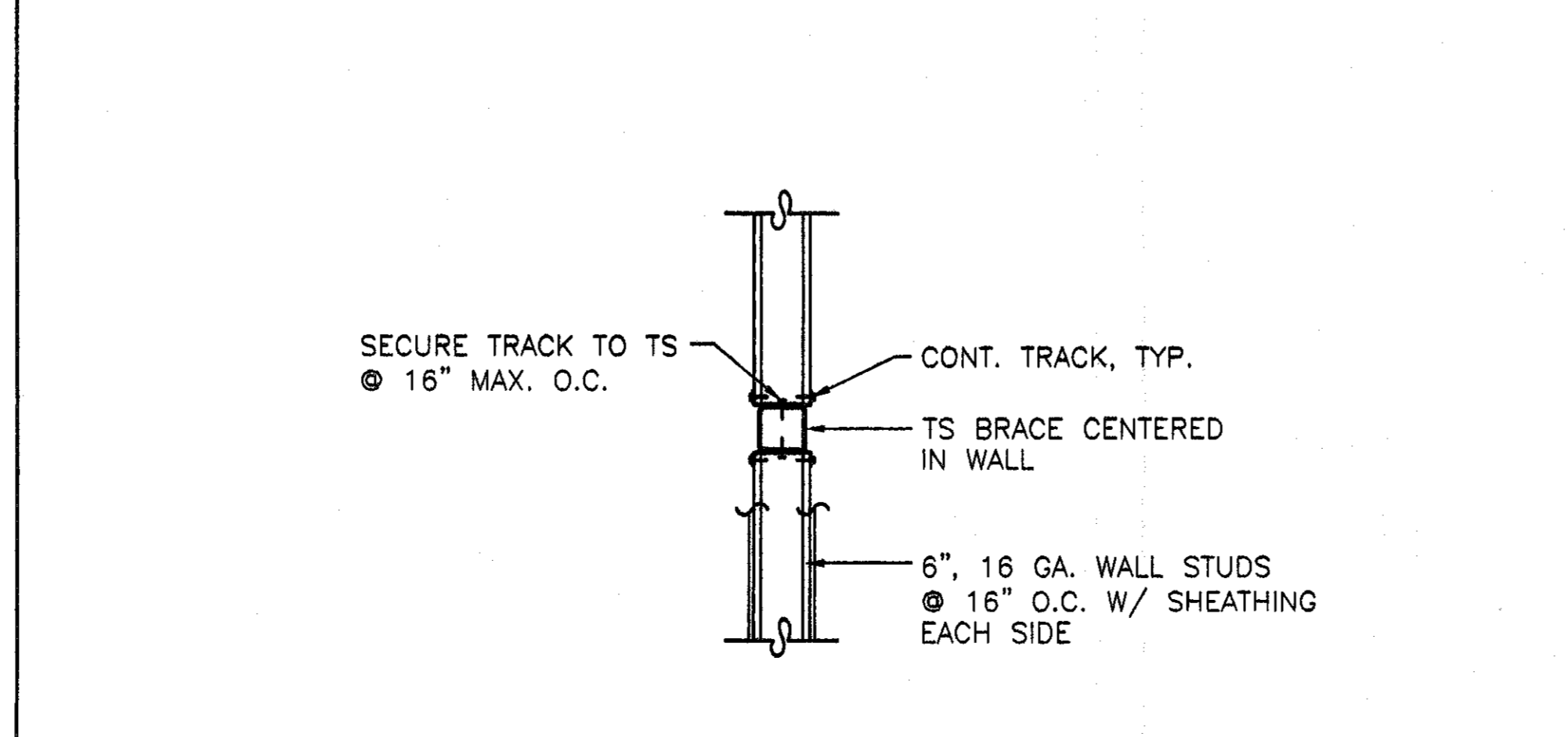
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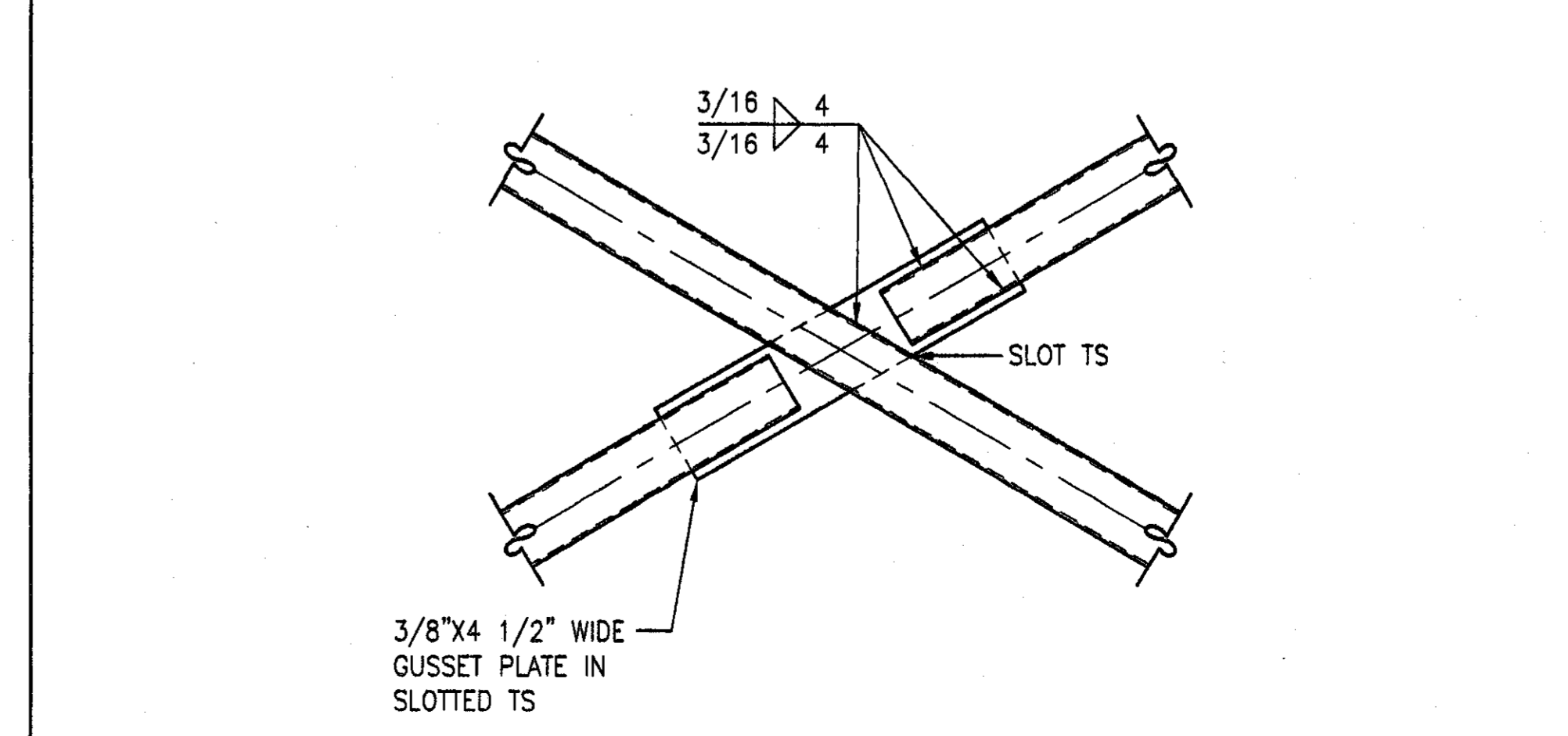
DETAIL 47 SCALE: 3/4"=1'-0"



DETAIL 48 SCALE: 3/4"=1'-0"



DETAIL 49 SCALE: 3/4"=1'-0"



DETAIL 50 SCALE: 3/4"=1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING  
 ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 126 Interstate Park Drive, P.O. Box 9905  
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**MECH. & ELEC. ENGINEER**  
 Burden & Morris Consulting Engineers, Inc.  
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 Montgomery, Alabama 36104  
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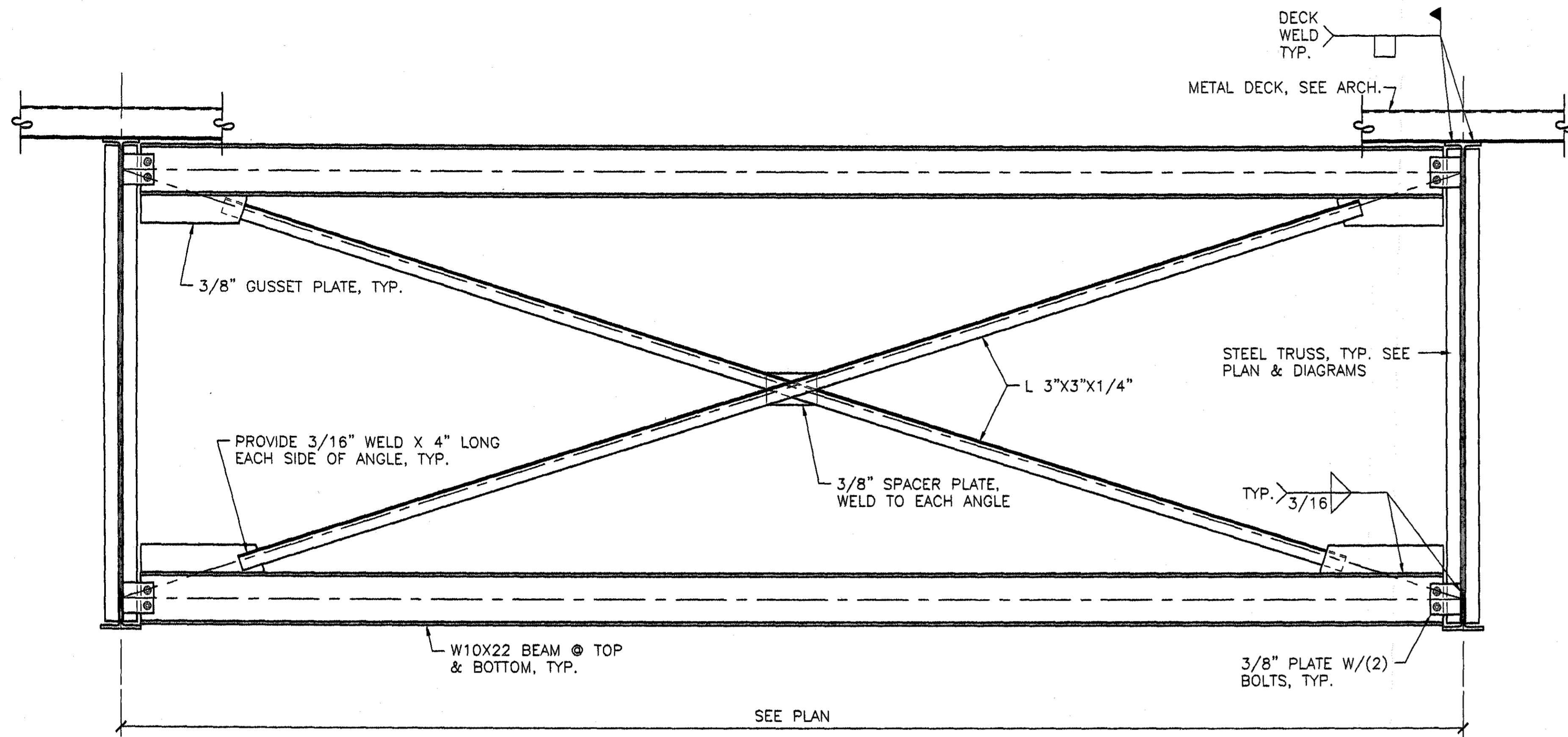
A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019  
 STATE OF ALABAMA  
 WALTER ELLIOTT WALKER  
 2923  
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 REGISTERED ARCHITECT

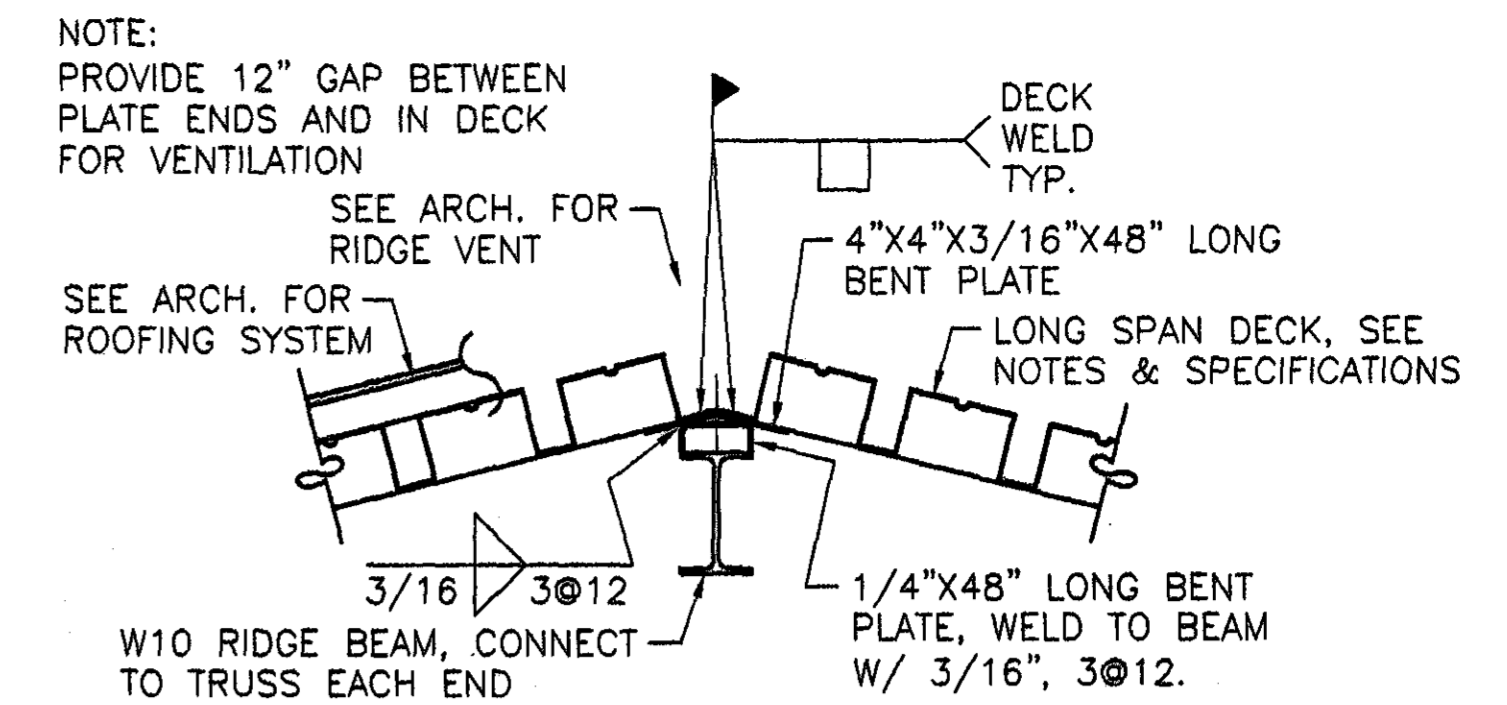
Issue	date
Construction Dwg	8.17.01

drawn by: SWA  
**STRUCTURAL DETAILS**

95% SUBMITTAL  
**S7**  
 sheet of

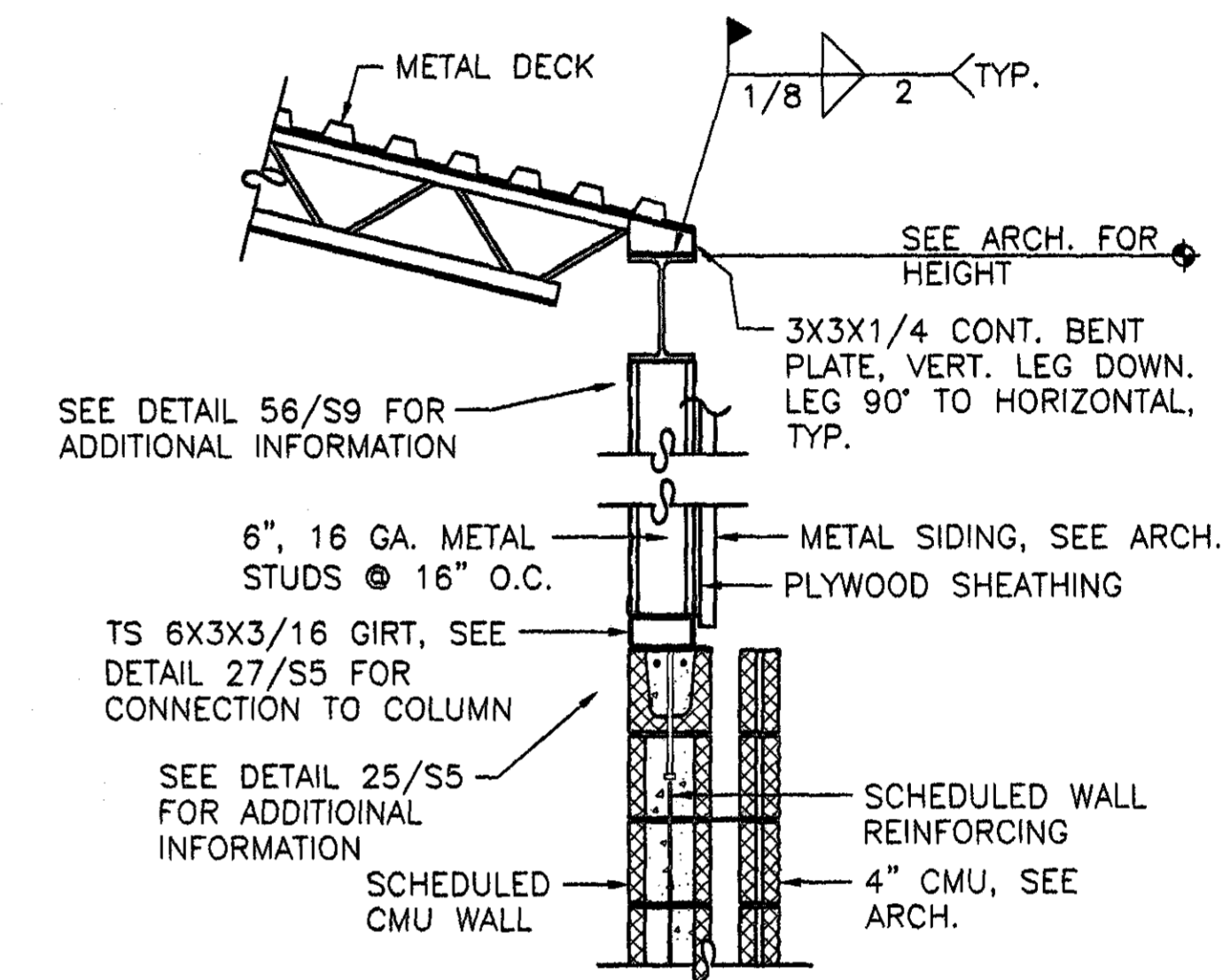


TYPICAL TRUSS "SWAY BRACING" DETAIL



DETAIL 52

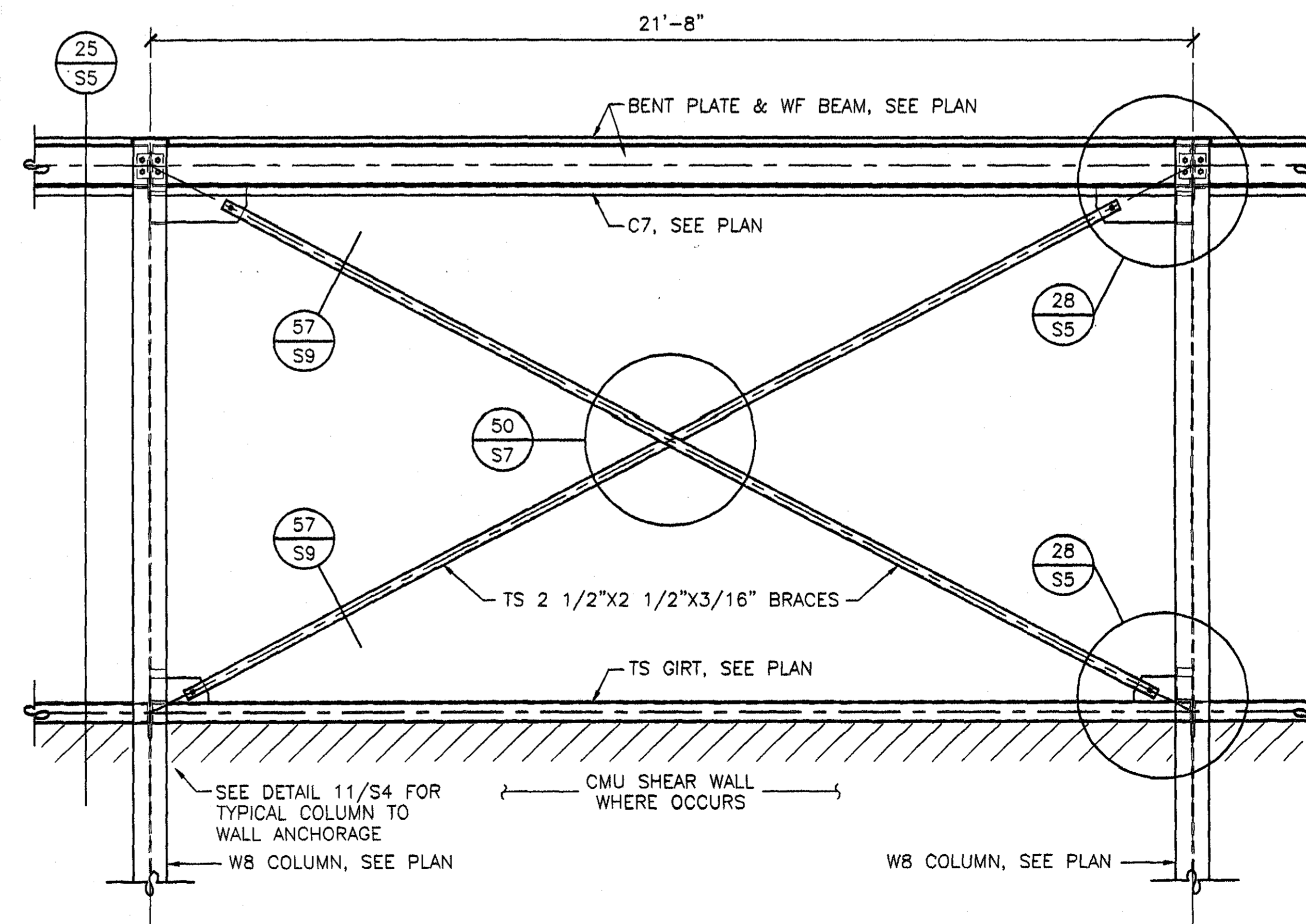
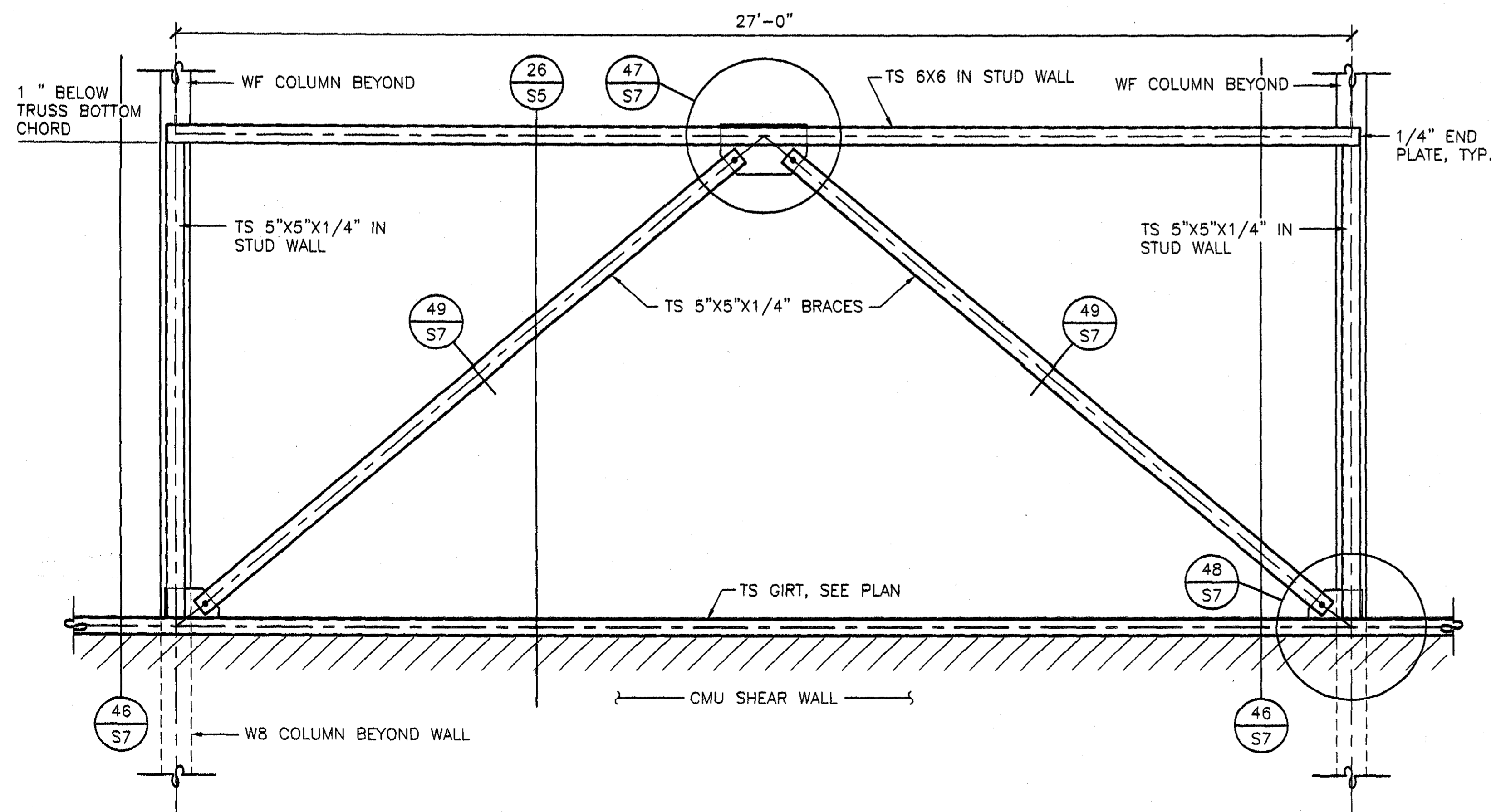
SCALE: 3/4"=1'-0"



DETAIL 51

SCALE: 3/4"=1'-0"

NOT USED



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& CAWOOD, INC.

ENGINEERING  
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
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STRUCTURAL ENGINEER  
Terry Grant, P.E.  
825 North Hill Street  
Montgomery, Alabama 36104  
Phone: (334) 265-4631

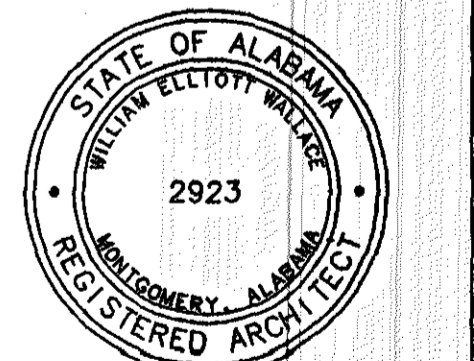
MECH. & ELEC. ENGINEER  
Soden & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

A NEW  
RECREATION  
COMPLEX

FOR THE

City of  
Orange  
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Alabama

6-1-019



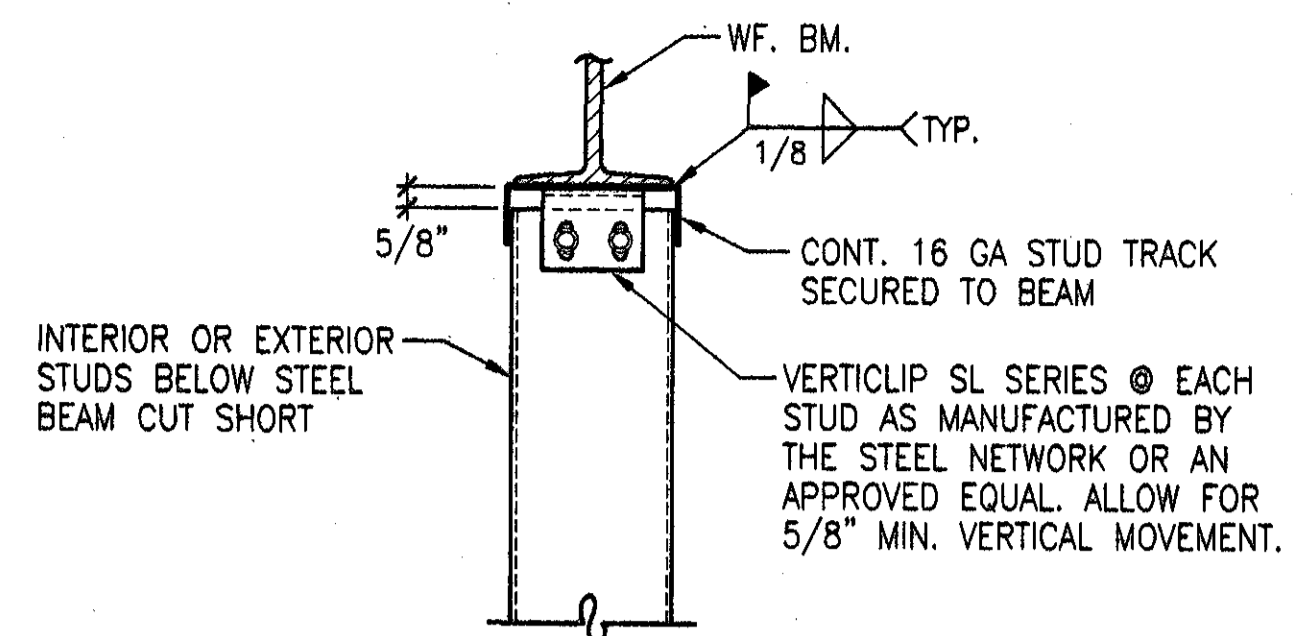
Issue	date
Construction Drawg	6.17.01

drawn by: SWA  
**STRUCTURAL  
DETAILS**

95% SUBMITTAL

**S8**

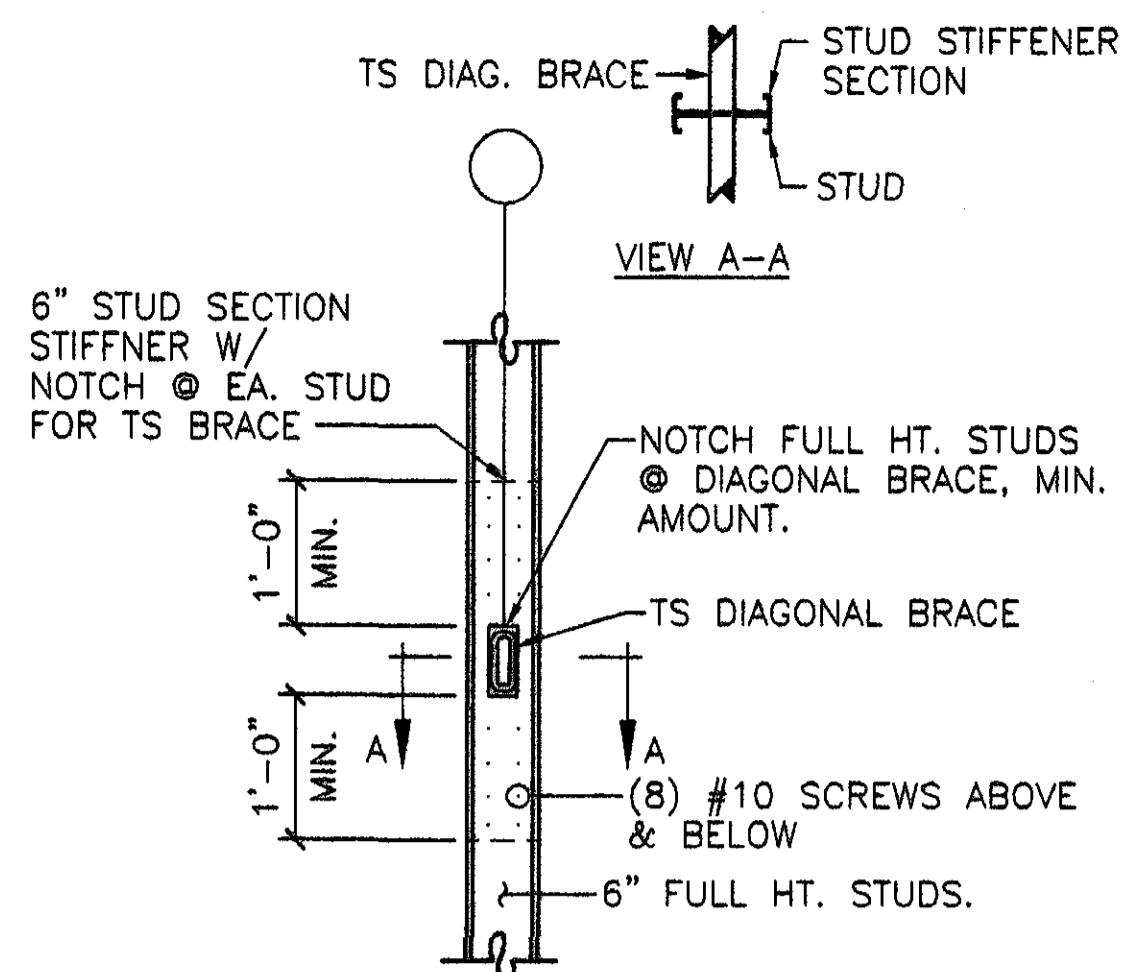
sheet of



TYPICAL DETAIL OF STEEL STUD WALL  
BELOW STEEL BEAM

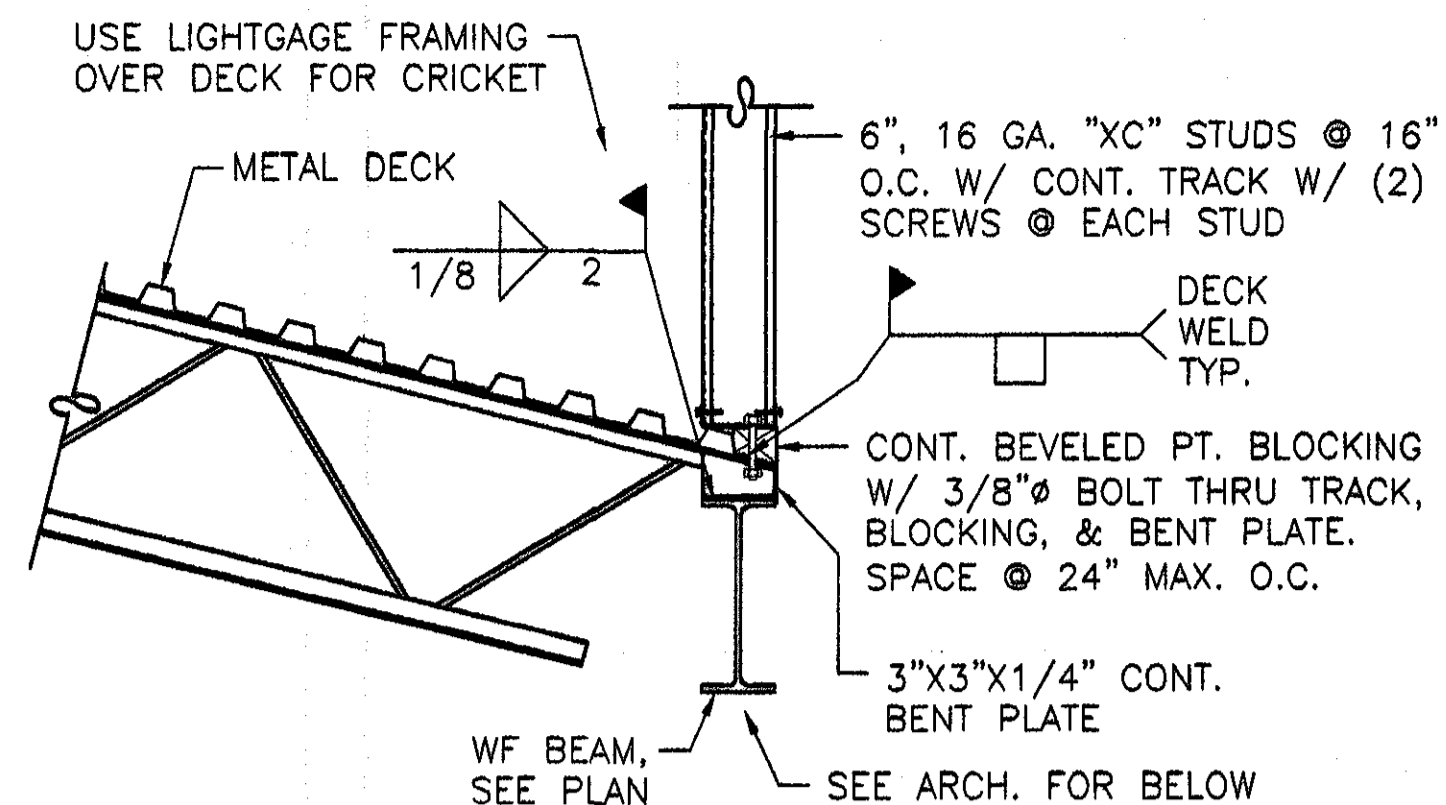
DETAIL 56

SCALE: 3/4"=1'-0"



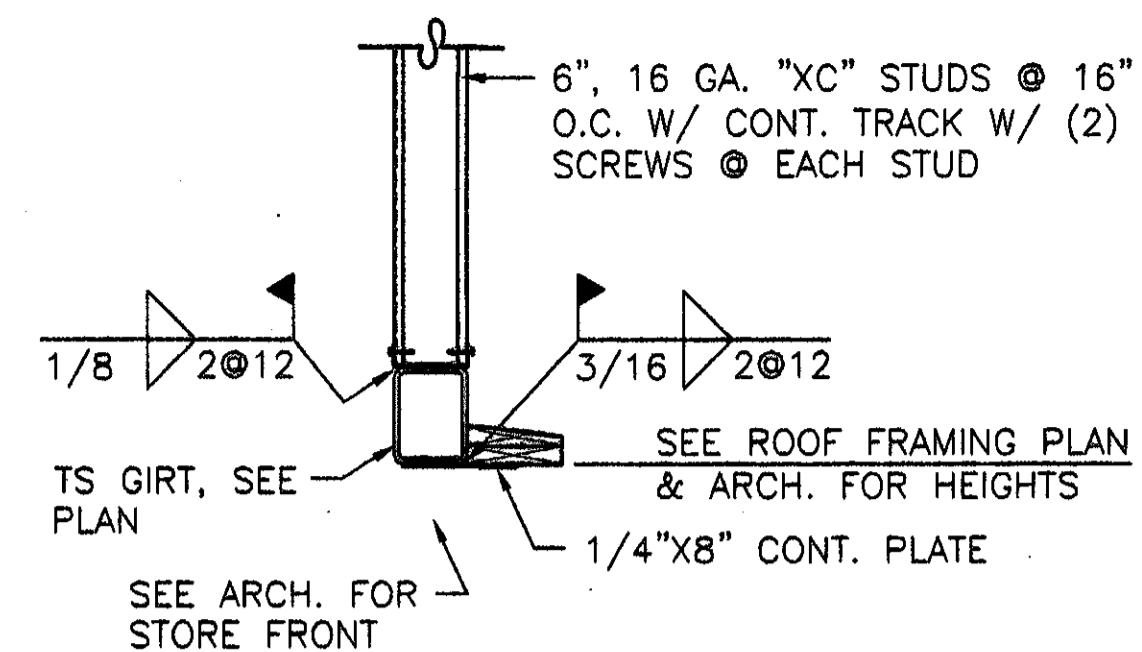
DETAIL 57

SCALE: 3/4"=1'-0"



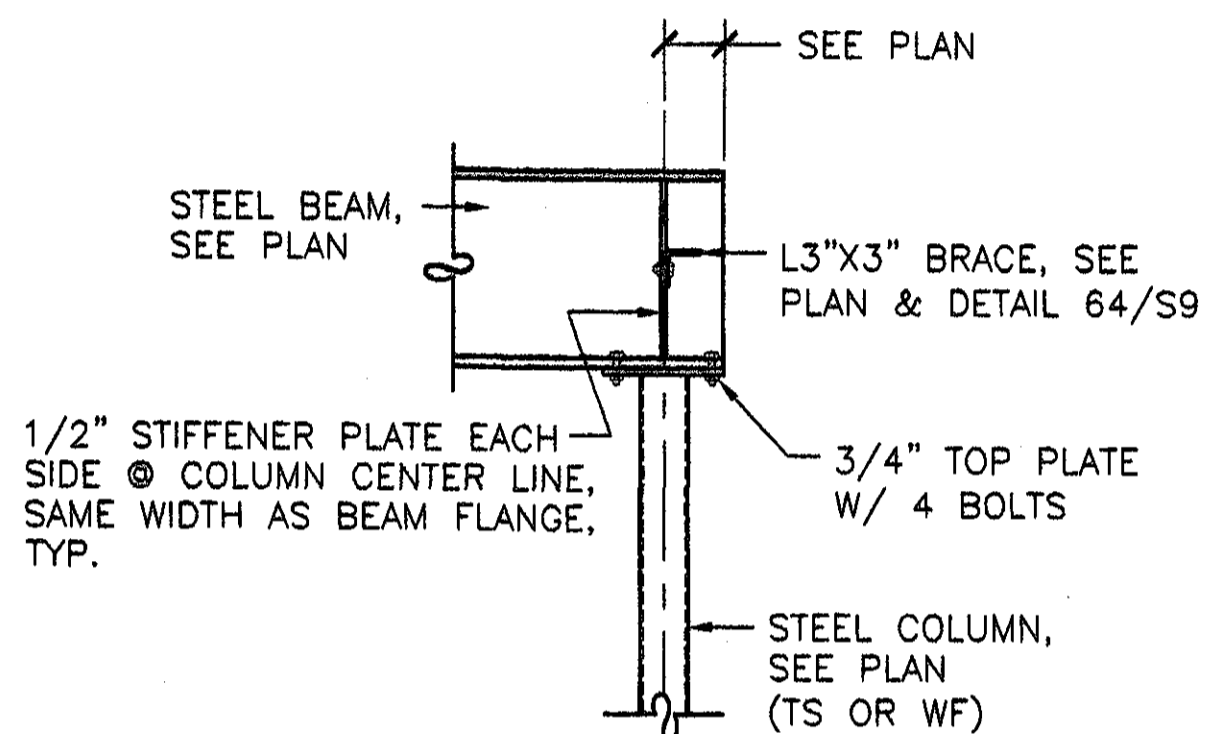
DETAIL 58

SCALE: 3/4"=1'-0"



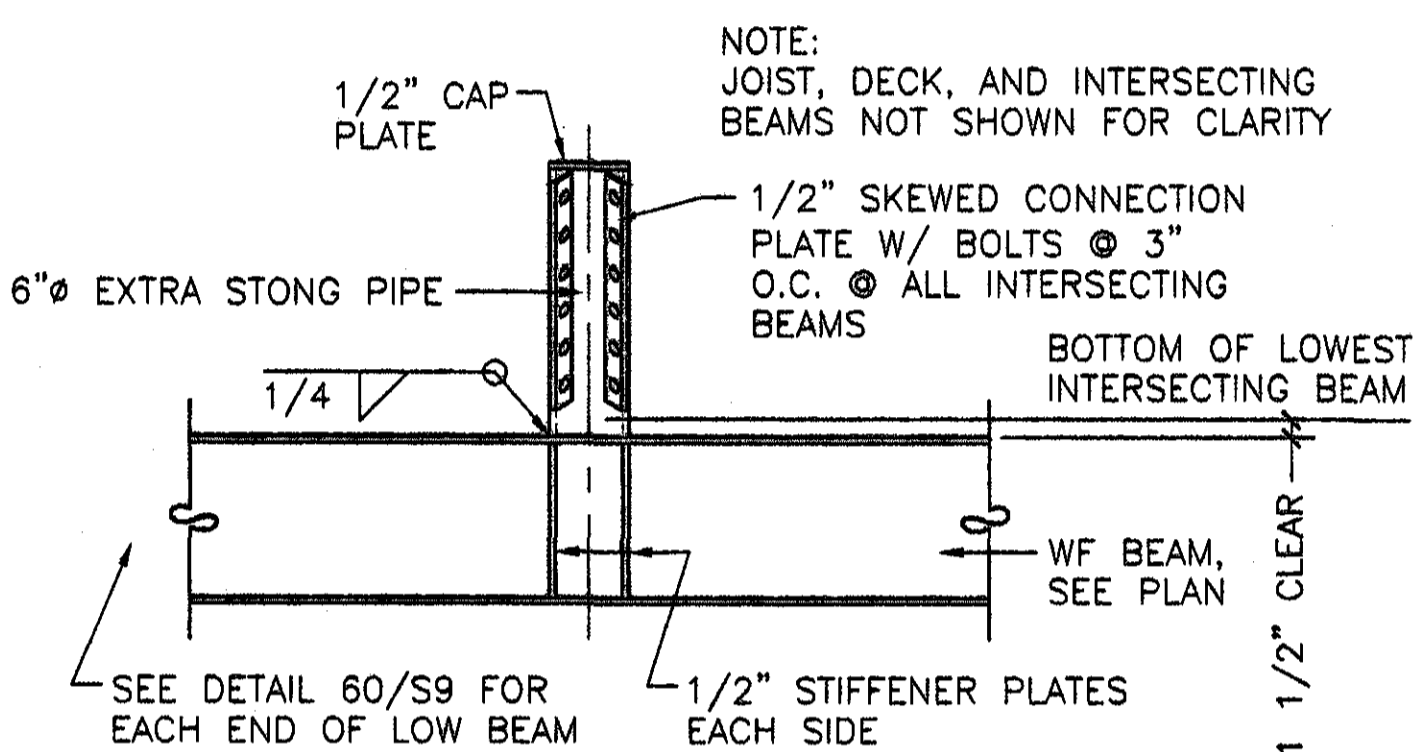
DETAIL 59

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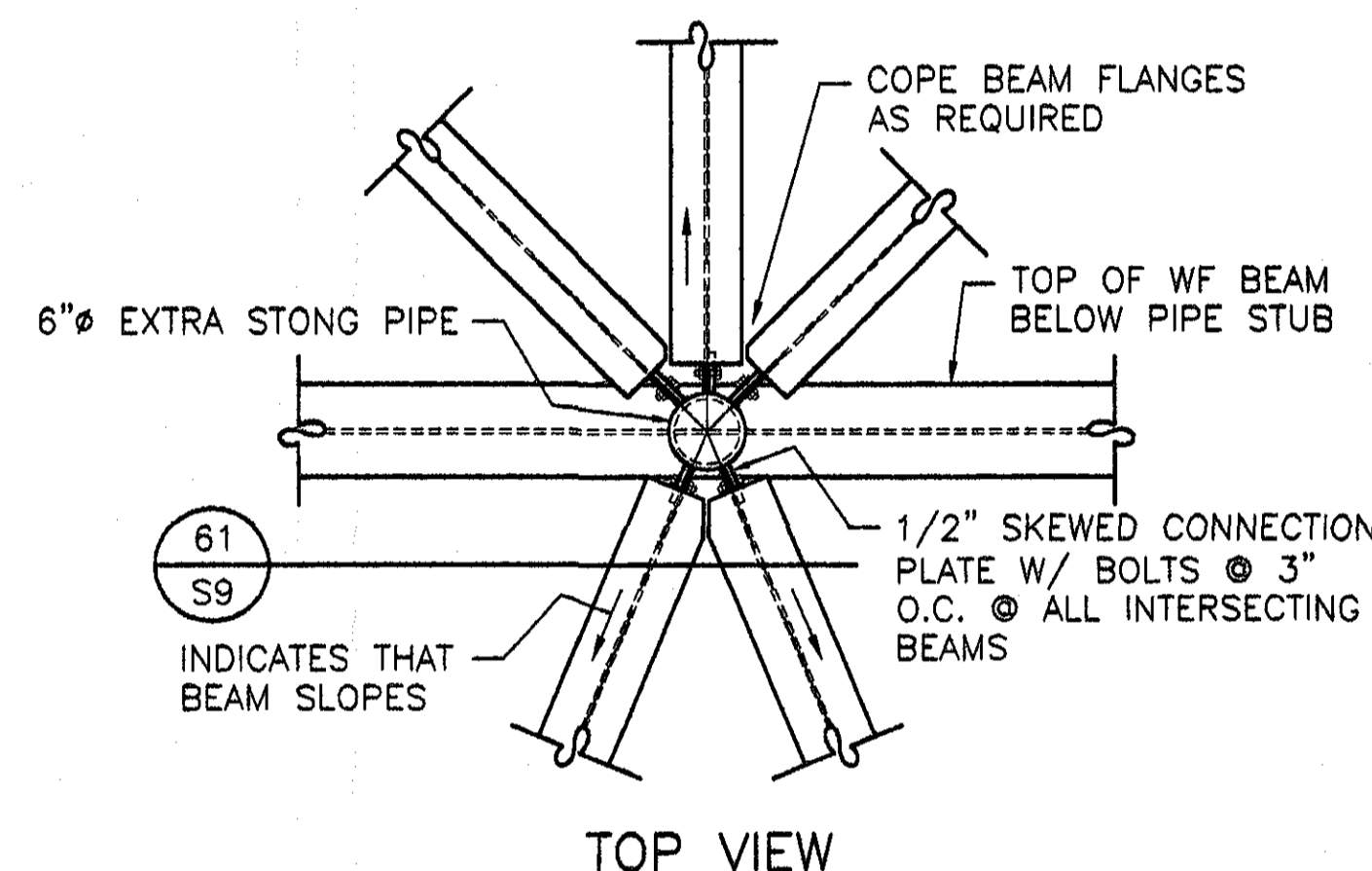
DETAIL 60

SCALE: 3/4"=1'-0"



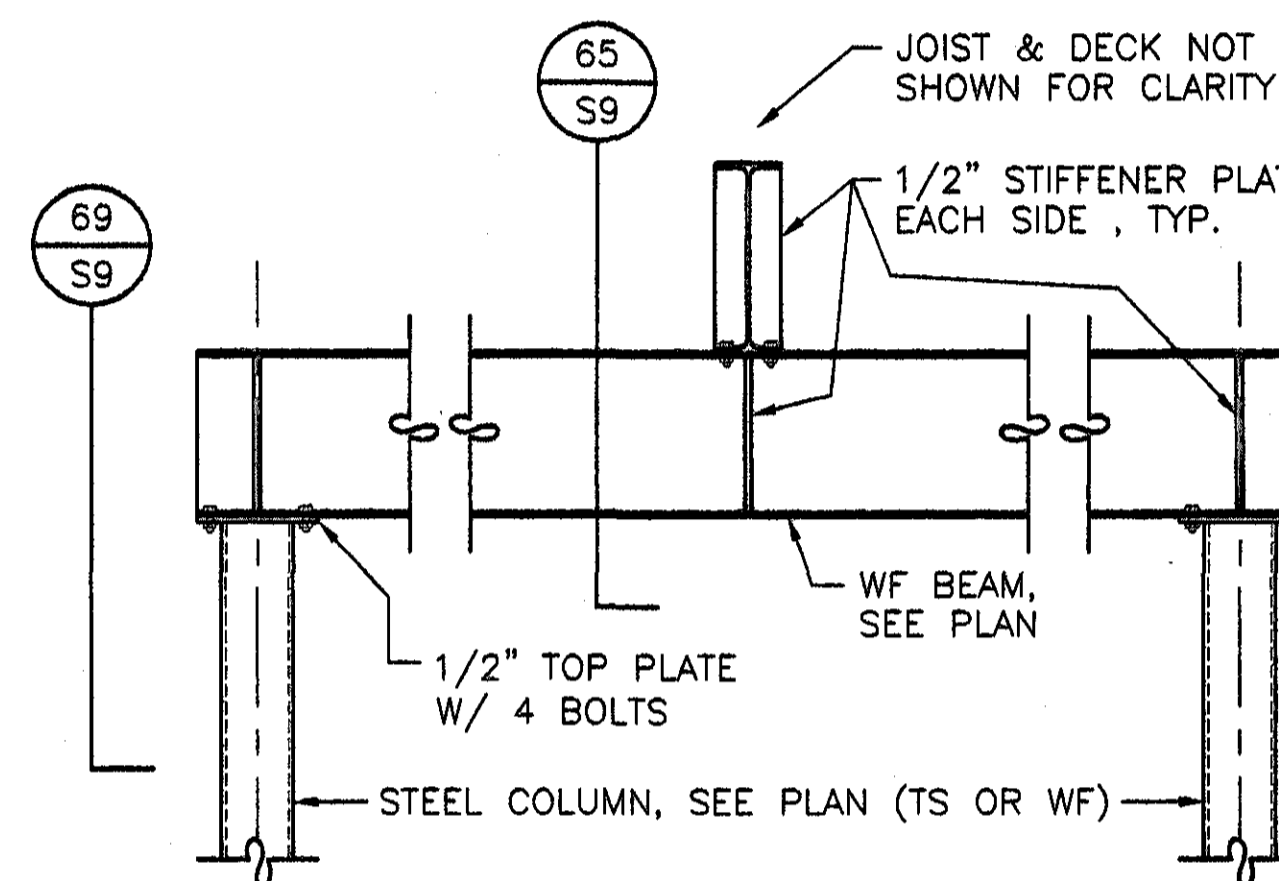
DETAIL 61

SCALE: 3/4"=1'-0"



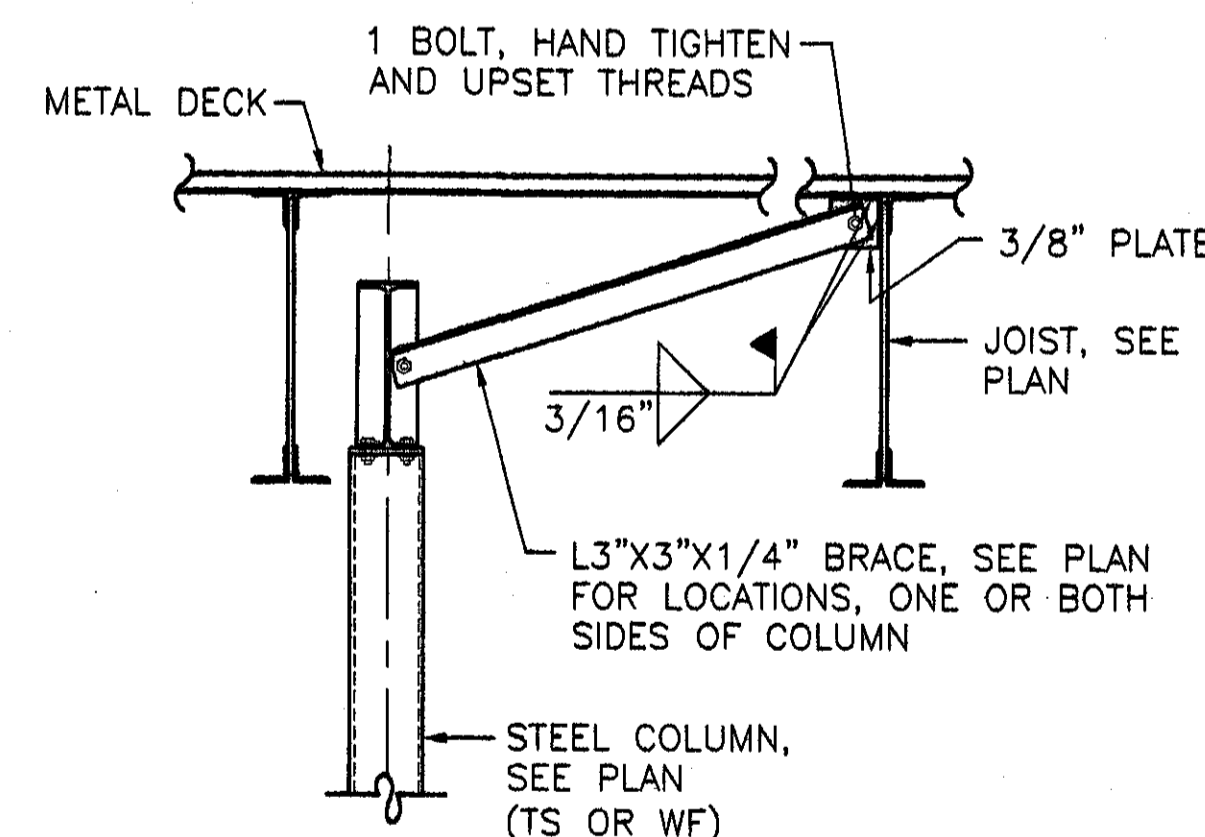
DETAIL 62

SCALE: 3/4"=1'-0"



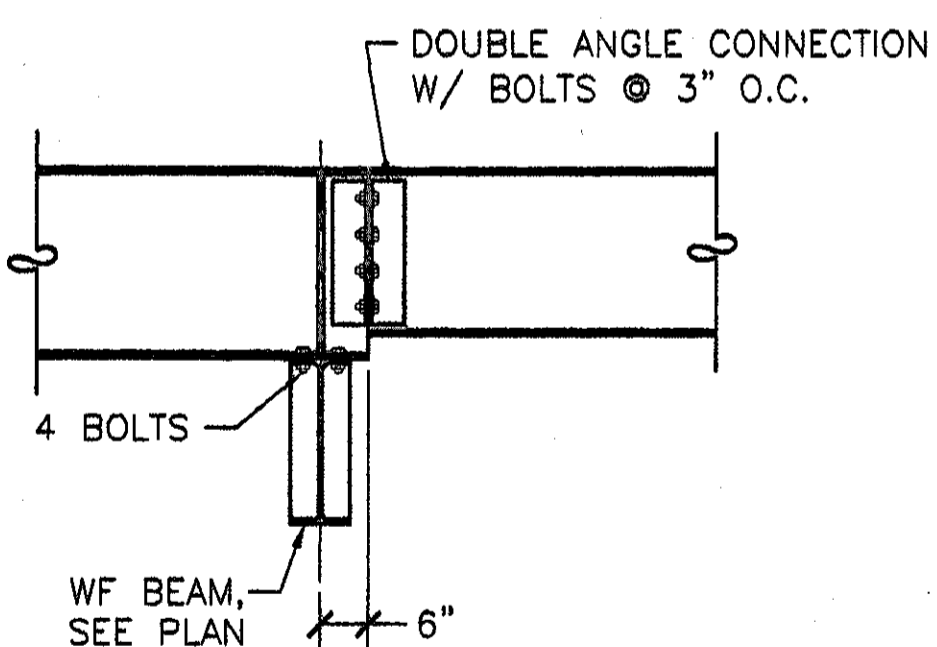
DETAIL 63

SCALE: 3/4"=1'-0"



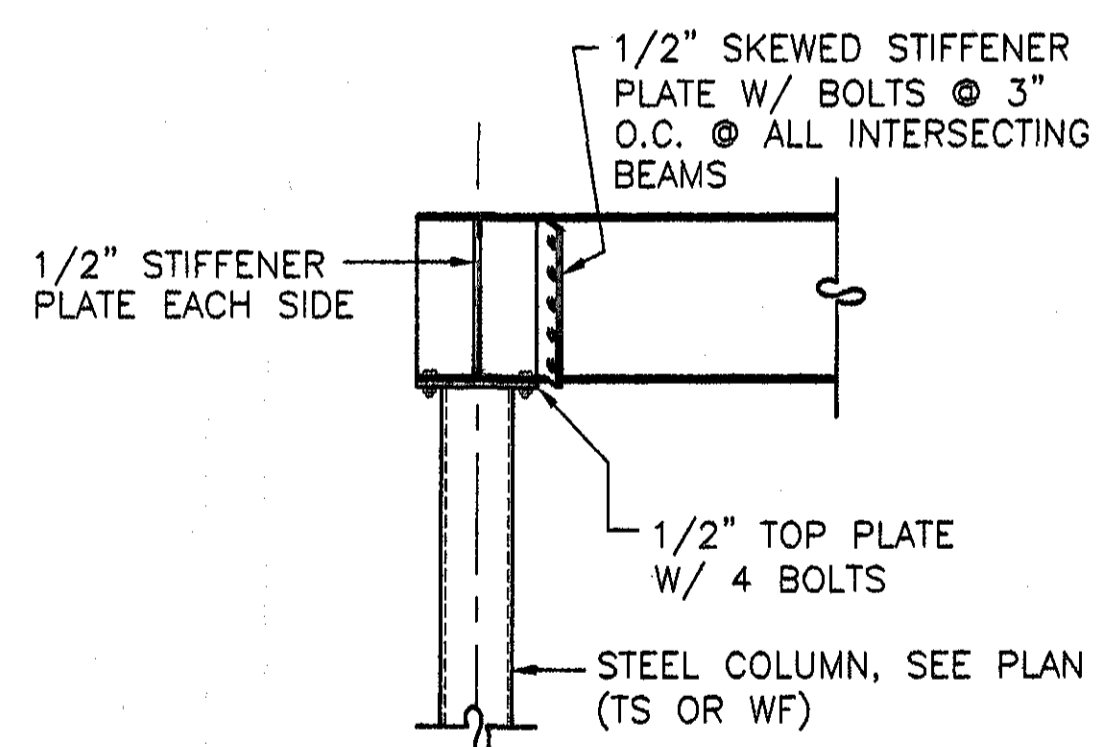
DETAIL 64

SCALE: 3/4"=1'-0"



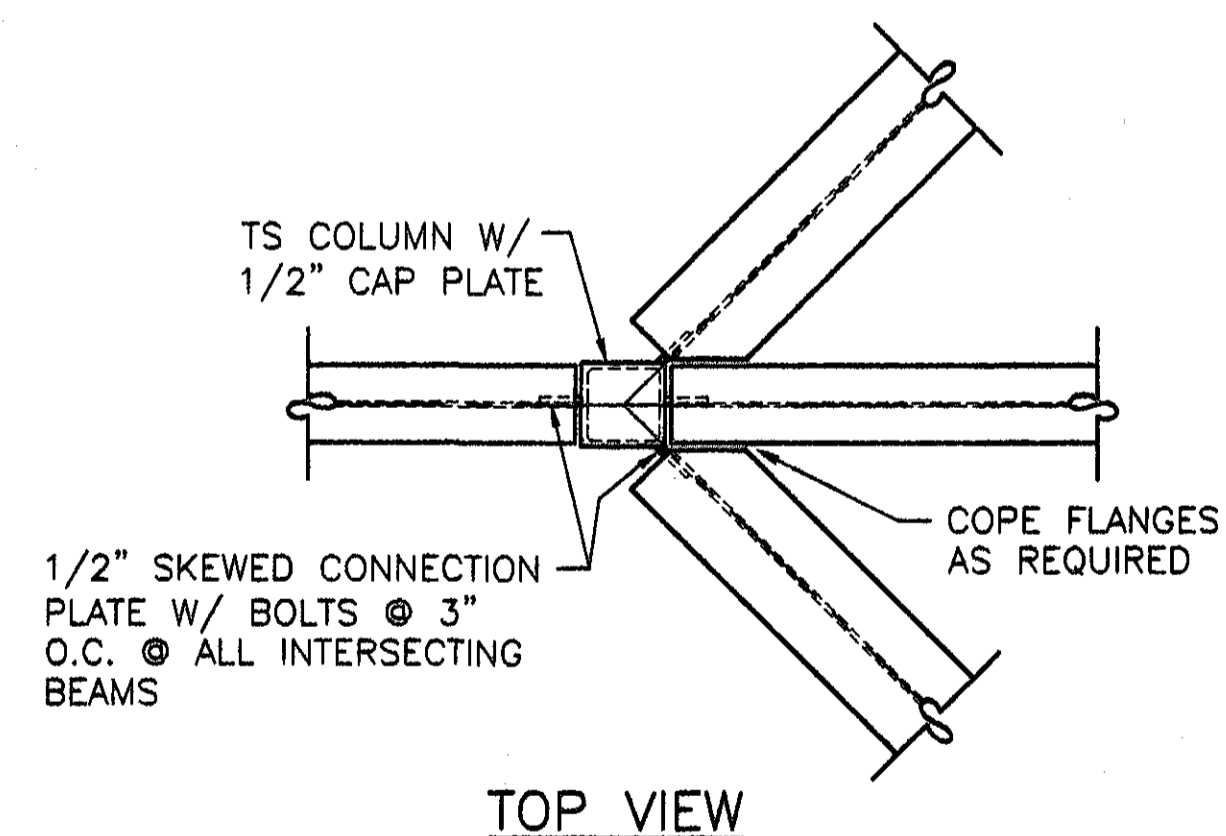
DETAIL 65

SCALE: 3/4"=1'-0"



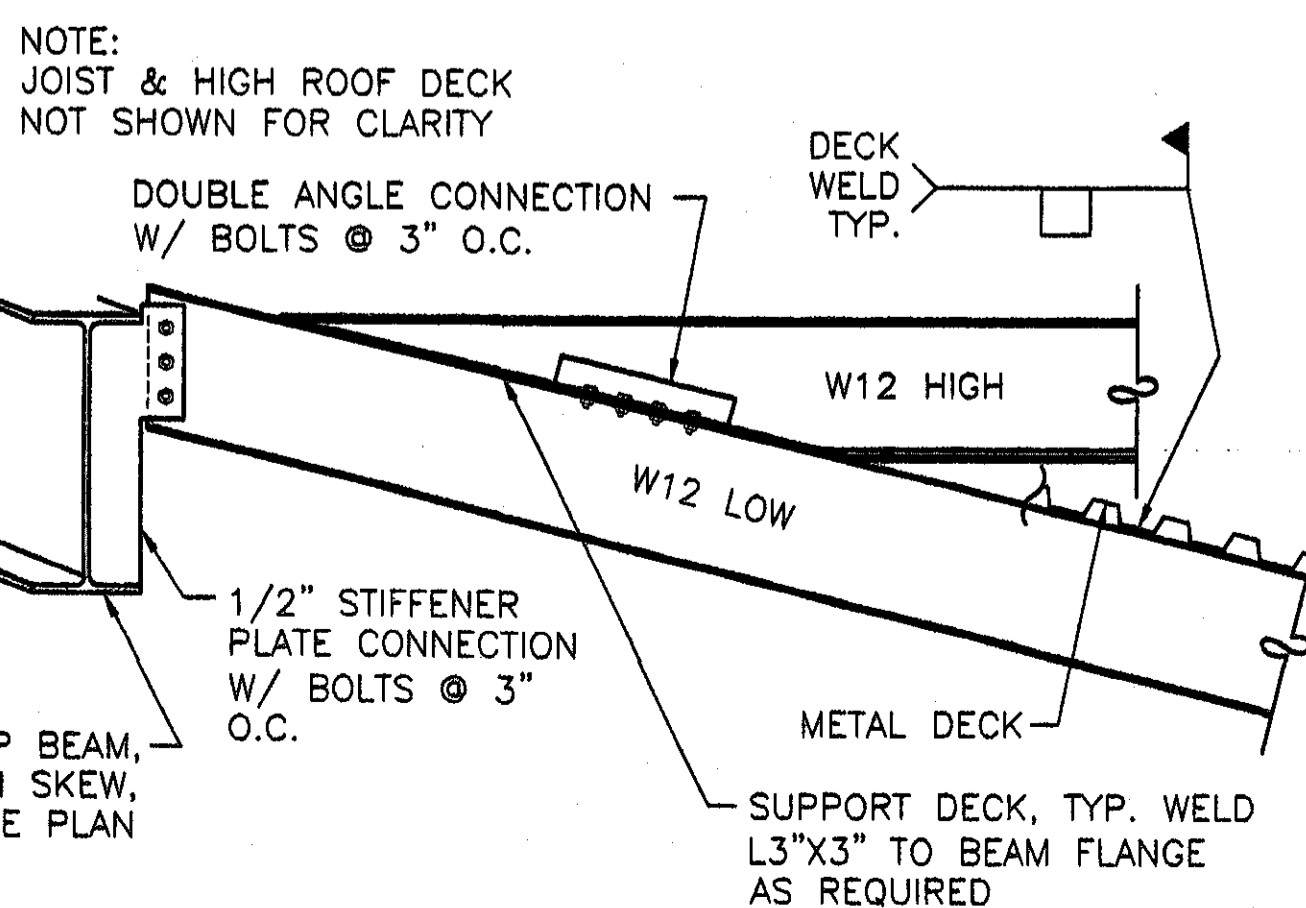
DETAIL 66

SCALE: 3/4"=1'-0"



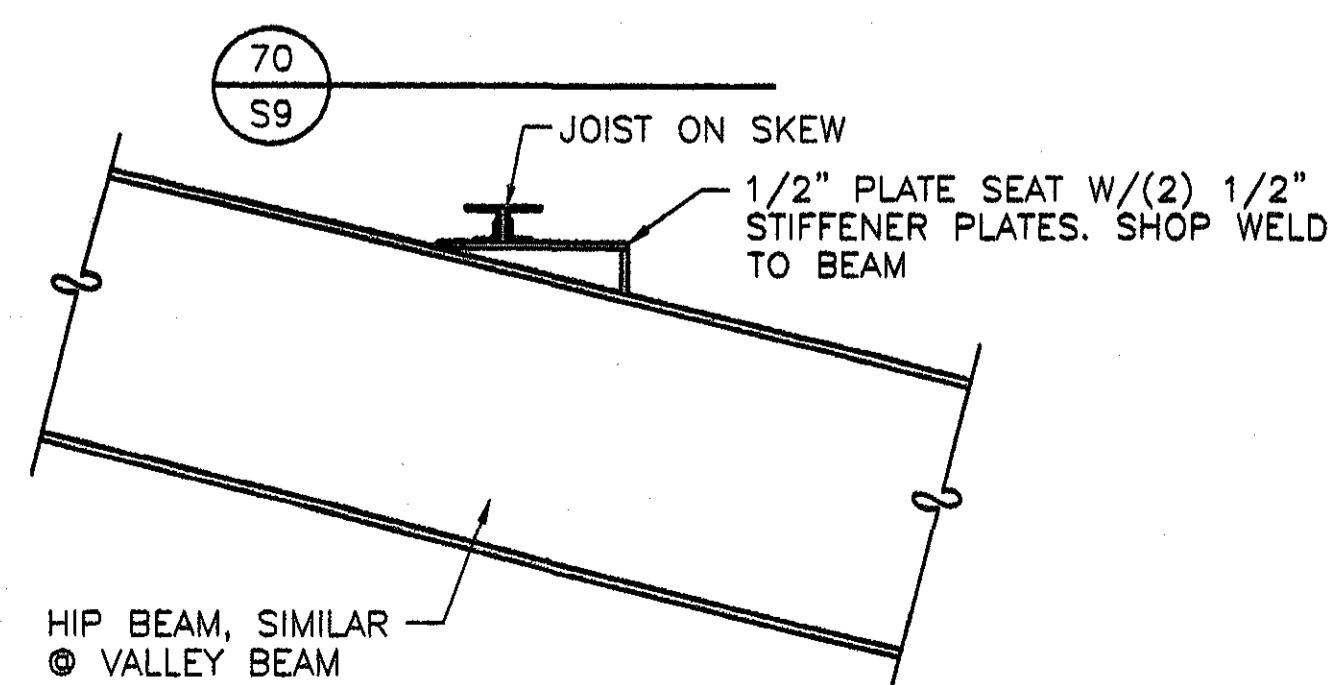
DETAIL 67

SCALE: 3/4"=1'-0"



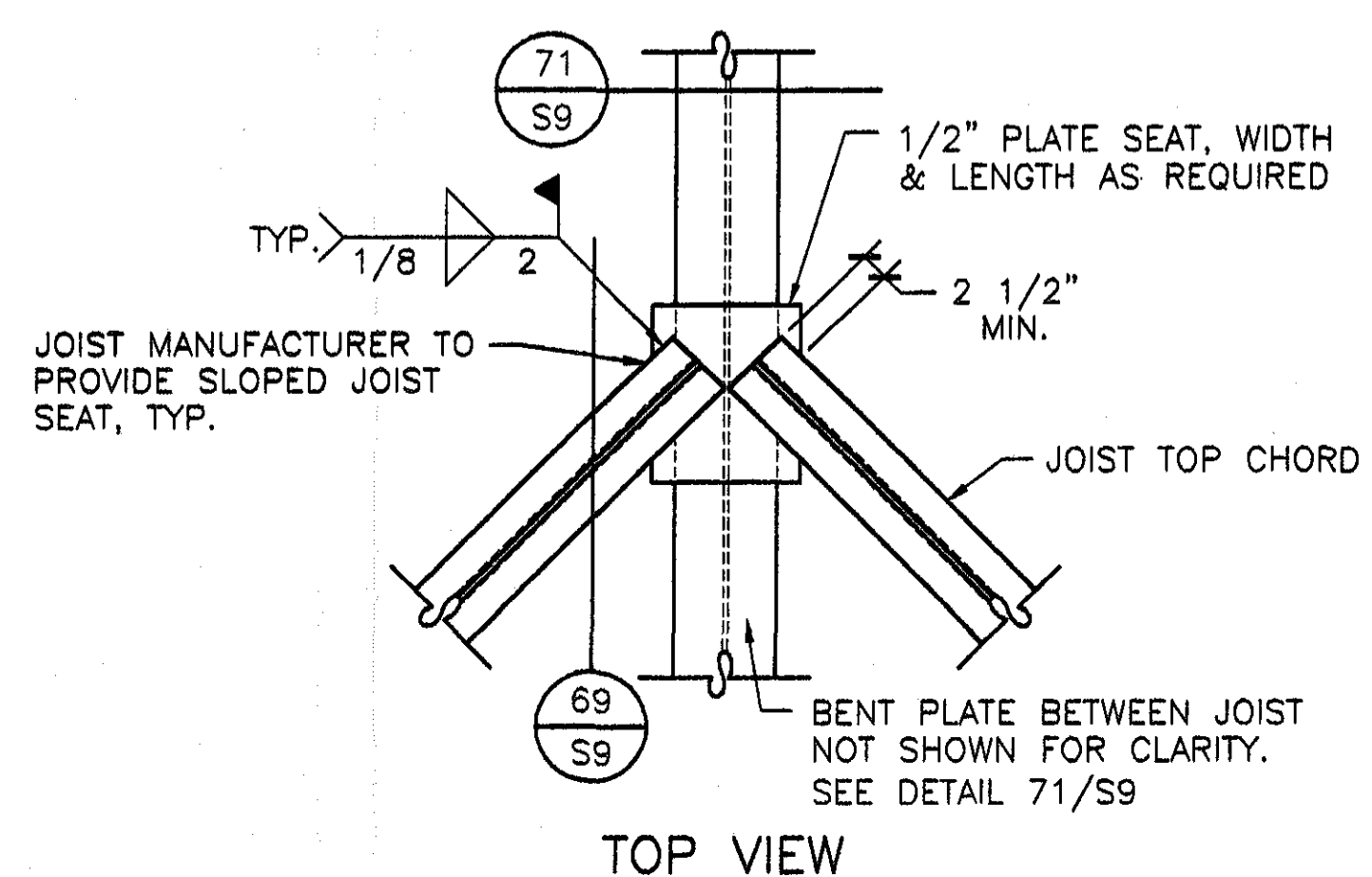
DETAIL 68

SCALE: 3/4"=1'-0"



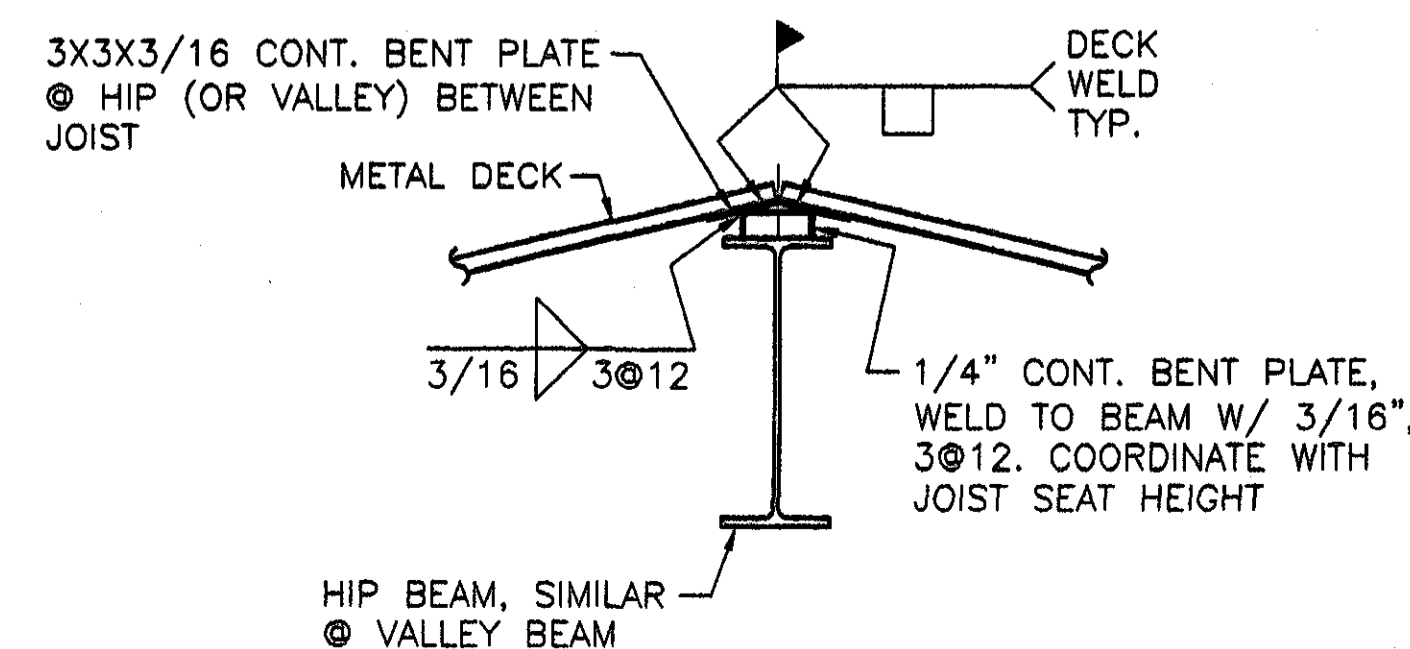
DETAIL 69

SCALE: 3/4"=1'-0"



DETAIL 70

SCALE: 3/4"=1'-0"



DETAIL 71

SCALE: 3/4"=1'-0"



GOODWYN, MILLS  
& CO.

ENGINEERING  
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PLANNING

126 Interstate Park Drive, P.O. Box 8008  
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Fax: (205) 871-1680

1102 South 20th Street  
Birmingham, Alabama 35206  
Phone: (205) 871-4462  
Fax: (205) 871-4480

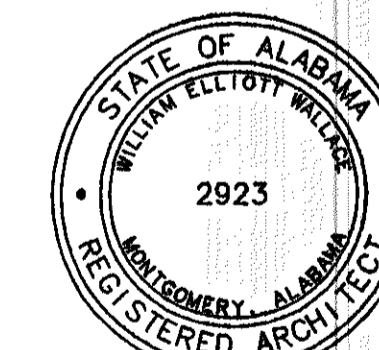
STRUCTURAL ENGINEER  
Terry Gant, P.E.  
825 North Hill Street  
Montgomery, Alabama 36104  
Phone: (334) 265-4931

MECH. & ELEC. ENGINEER  
Borden & Morris Consulting Engineers, Inc.  
825 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

A NEW  
RECREATION  
COMPLEX

FOR THE  
City of  
Orange  
Beach  
Alabama

6-1-019



Issue date

Construction Date 6/17/01

drawn by SWA

STRUCTURAL  
DETAILS

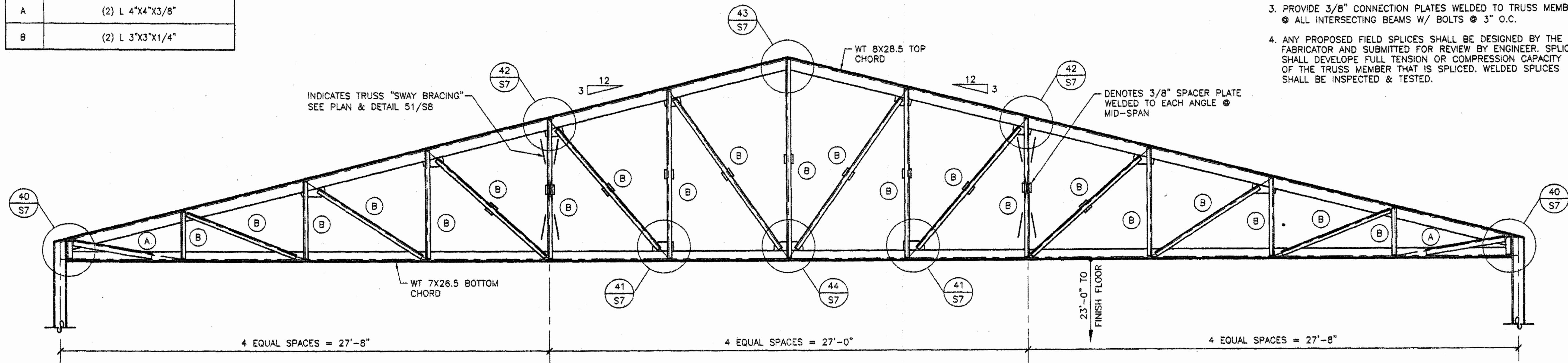
95% SUBMITTAL

S9

sheet of



TRUSS WEB MEMBER SCHEDULE	
MARK	SIZE
A	(2) L 4"x4"x3/8"
B	(2) L 3"x3"x1/4"



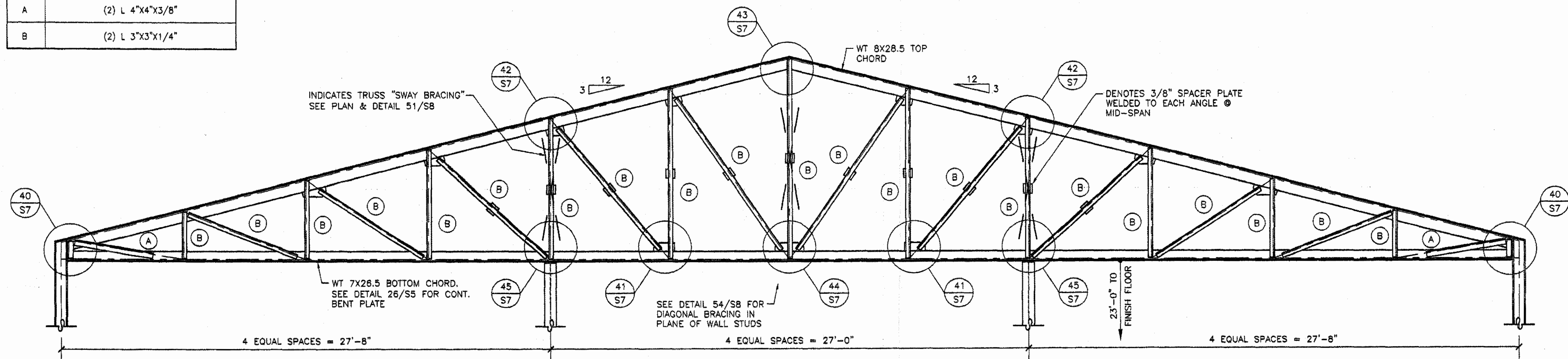
**TRUSS NOTES**

1. TRUSSES ARE NOT STABLE UNTIL ALL BRACING AND DECK ARE IN PLACE. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING.
2. ALL GUSSET LOCATIONS MAY NOT BE SHOWN. PROVIDE GUSSET PLATES WHERE REQUIRED TO ACHIEVE INDICATED WELD LENGTHS.
3. PROVIDE 3/8" CONNECTION PLATES WELDED TO TRUSS MEMBER @ ALL INTERSECTING BEAMS W/ BOLTS @ 3" O.C.
4. ANY PROPOSED FIELD SPLICES SHALL BE DESIGNED BY THE FABRICATOR AND SUBMITTED FOR REVIEW BY ENGINEER. SPLICES SHALL DEVELOPE FULL TENSION OR COMPRESSION CAPACITY OF THE TRUSS MEMBER THAT IS SPLICED. WELDED SPLICES SHALL BE INSPECTED & TESTED.

TRUSS T-1

SCALE: NONE

TRUSS WEB MEMBER SCHEDULE	
MARK	SIZE
A	(2) L 4"x4"x3/8"
B	(2) L 3"x3"x1/4"



**GOODWYN, MILLS & CAWOOD, INC.**

ENGINEERING  
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
PLANNING

105 Interstate Park Drive, P.O. Box 8936  
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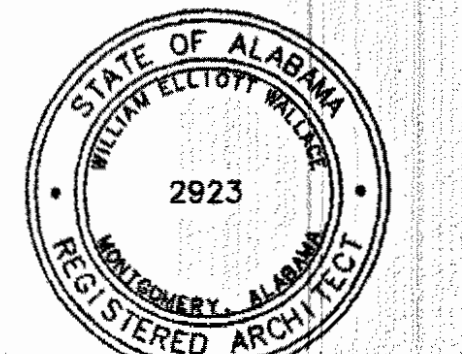
1102 South 20th Street  
Birmingham, Alabama 35205  
Phone: (205) 978-4402  
Fax: (205) 978-4400

STRUCTURAL ENGINEER  
Terry Grant, P.E.  
528 North Half Street  
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MECH. & ELEC. ENGINEER  
David & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

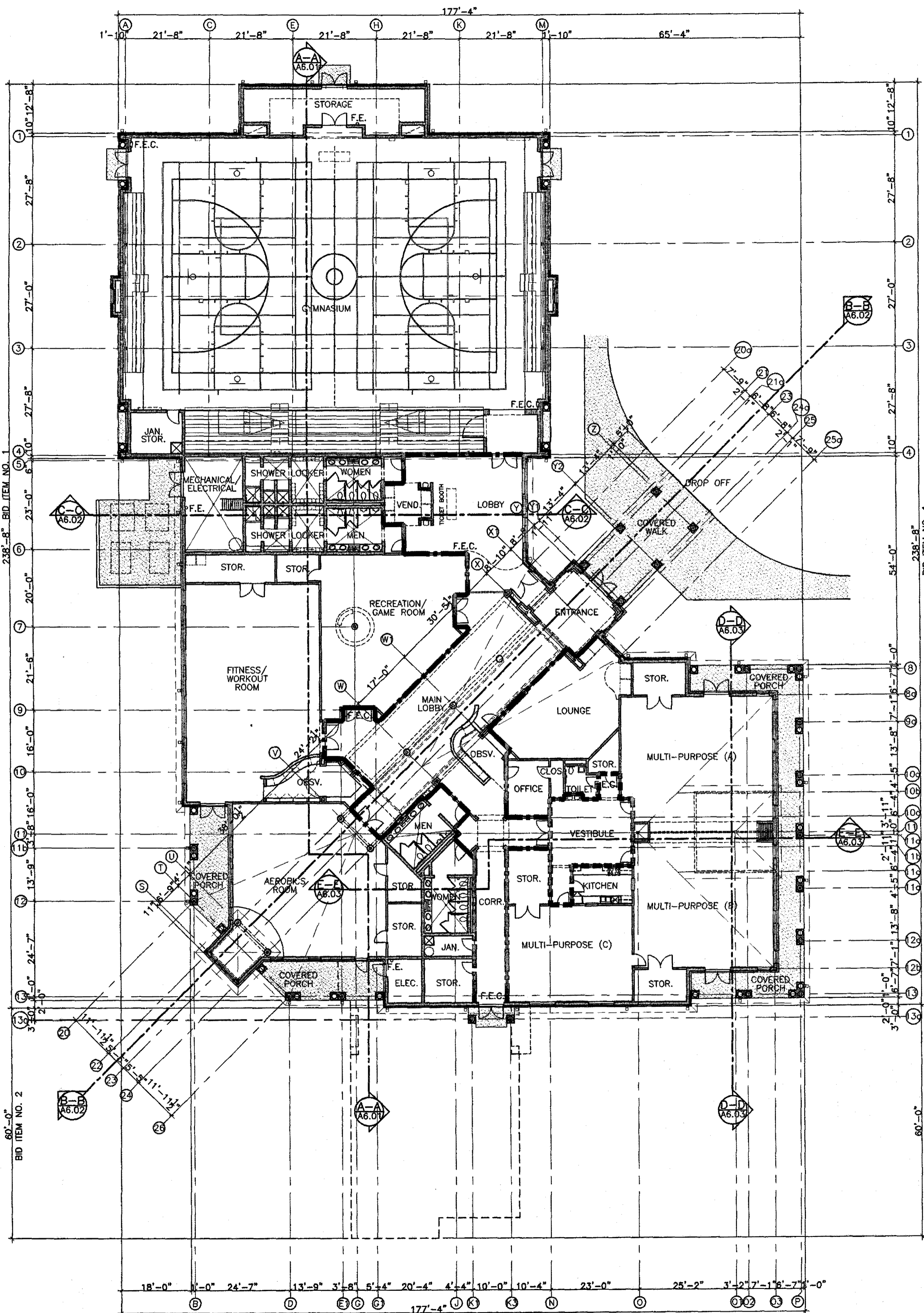
6-1-019



issue date	Construction Dwg	8.17.01

drawn by: SWA  
**TRUSS DIAGRAMS**

95% SUBMITTAL  
**S10**  
sheet of



**COMPOSITE FLOOR PLAN BID ITEM NO. 1**  
SCALE: 1/16" = 1'-0"

**FIRE PROTECTION/LIFE SAFETY/BUILDING CODE DATA**

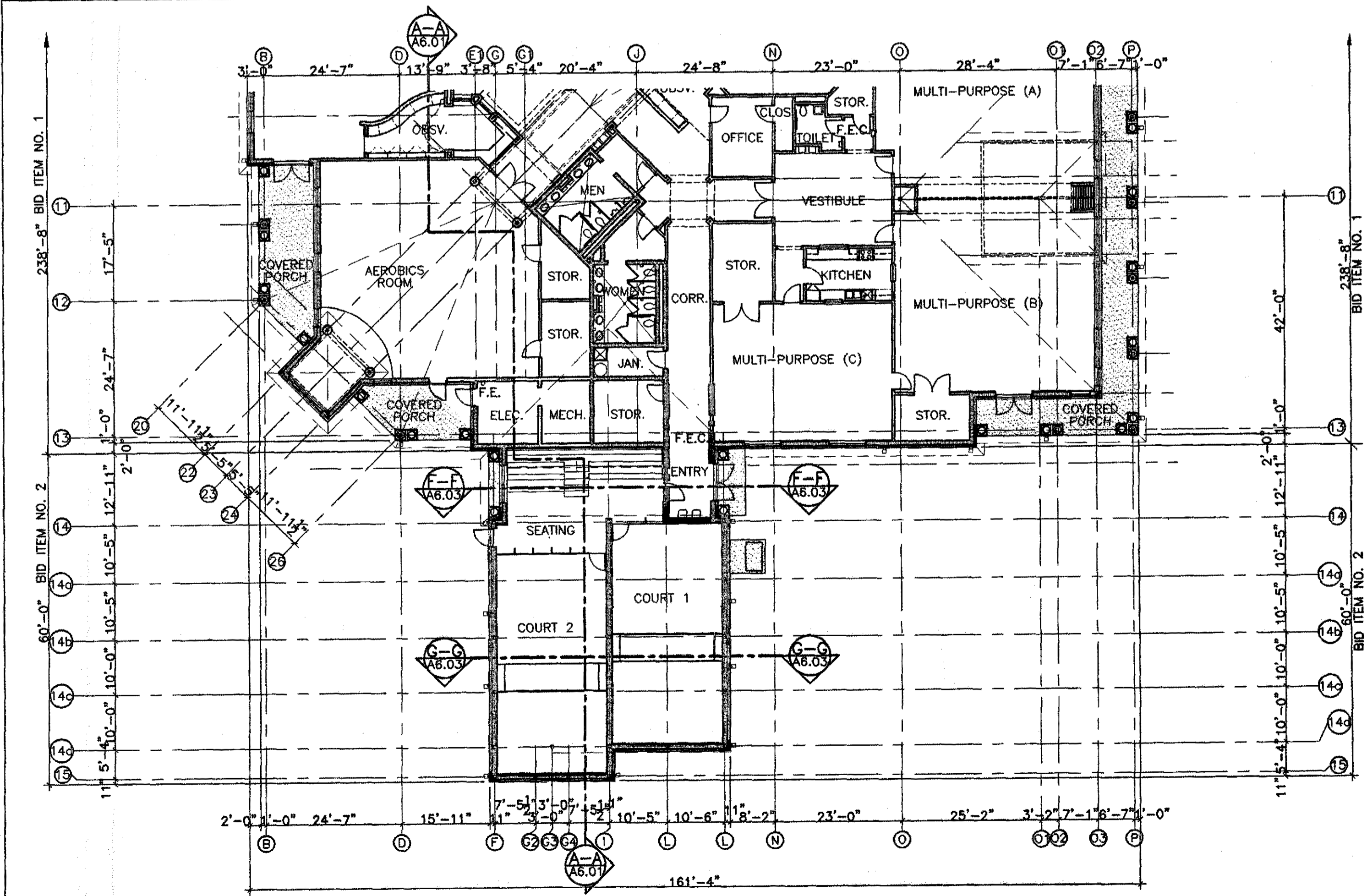
1. (Standard Building Code)	1994	Chapter 6—Fire Protection Requirements		Chapter 9—Fire Protection Systems	
2. NFPA 101 (Life Safety Code)	1994	Table 600:	type V unprot. 4 hour	Building Sprinkler System	Yes
3. National Electrical Code	1996	A. Party and Fire Walls		Chapter 10—Means of Egress	
4. Mechanical Code	1994	1. Supporting more than one floor:		Table 1004	
5. Plumbing Code	1994	2. Supporting only one floor:		Actual Max. travel distance:	250 ft. NEPA 200
6. Gas Code	1994	3. Supporting only roof:		Date Checked:	07/09/01 07/09/01
7. Fire Protection Code	1994	B. Interior non-bearing partitions:		Maximum dead end Corr.:	20 ft.
		C. Columns:		Minimum Corr. Width:	44 in.
		1. Supporting more than one floor:		Min. clear opening of exit doors:	32 in.
		2. Supporting only one floor:		1003.1 Occupant Content:	
		3. Supporting only roof:		First Floor:	28,900
		D. Beams, Girders and trusses:		Area:	1448.933333
		1. Supporting more than one floor:		Assembly 21,734.00 / 15 sq.ft.	Occupant Content = 1448.933333
		2. Supporting only one floor:		Total Occupant Content	1448.933333
		3. Supporting only roof:		1004.2.2 No. of Exits Required	4
		E. Floor/ceiling construction:		Capacity per Unit and Egress Width:	
		F. Roof ceiling construction:		Table 1004 Level Travel	
		G. Exterior bearing walls (based on horiz. Separation)		Occupant Content:	1448.933333 persons
		1. 0 to 3 feet:	3(0%)	Egress Width/person:	0.2 inches/person
		2. 3 to 10 feet:	2(10%)	Total Exit width Req'd:	289.786667 inches
		3. 10 to 20 feet:	2(20%)	1004.2.2 Min. No. Req'd. Exits:	4
		4. 20 to 30 feet:	1(40%)	Width per Door Req'd.:	72.4486667 inches
		5. > 30 feet:	1(40%)		
		H. Exterior bearing walls (based on horiz. Separation)			
		1. 0 to 3 feet:	3(0%)		
		2. 3 to 10 feet:	2(10%)		
		3. 10 to 20 feet:	2(20%)		
		4. 20 to 30 feet:	1(40%)		
		5. > 30 feet:	1(40%)		
		I. Exterior non-bearing walls (based on horiz. Separation)			
		1. 0 to 3 feet:	3(0%)		
		2. 3 to 10 feet:	2(10%)		
		3. 10 to 20 feet:	2(20%)		
		4. 20 to 30 feet:	1(40%)		
		5. > 30 feet:	1(40%)		
		J. Shaft Enclosures			
		1. 4 or more stories:	Rating	Opening Protective	
		2. less than 4 stories:	1	1 1/2	
		3. oil refuse chutes:	2	1 1/2	
		K. Walls and Partitions			
		1. Fire Walls	4	3	
		within tenant space:	See 704.2.3	3/4	
		2. Tenant Space:	1	1 1/2	
		3. Horizontal Exits:	2	1 1/2	
		4. Exit Access Corr.:	(See Note 4,5)	20 min	
		5. Smoke Barriers:	See 409.1.2	3/4	
		6. Refuse Chute access rooms:	1	1 1/2	
		7. Incinerator Room:	2	3/4	
		8. Refuse Chute termination access:	1	3/4	
		9. Haz. Gas Control areas:	1	See 412	
		10. High Rise Buildings:	See 413	See Note 2	
		11. Covered Mall Buildings:	See Note 6		
		12. Assembly Buildings:			
		13. Bathrooms & Restrooms:			

**PLAN LEGEND**

- 1-HOUR RATED WALL (3 5/8" METAL STUDS W/ 1-LAYER 5/8" FIRE RATED GYPSUM BOARD EACH SIDE SEALED TO DECK)
- 2-HOUR RATED WALL (3 5/8" METAL STUDS W/ 2-LAYERS 5/8" FIRE RATED GYPSUM BOARD EACH SIDE SEALED TO DECK)

**PLAN ABBREVIATIONS**

- F.E.C. FIRE EXTINGUISHER CABINET
- F.E. FIRE EXTINGUISHER



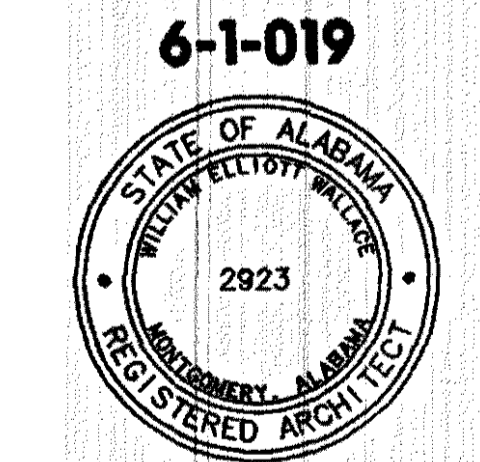
**COMPOSITE FLOOR PLAN BID ITEM NO. 2**  
SCALE: 1/16" = 1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 3905  
Montgomery, Alabama 36109  
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1102 South 20th Street  
Birmingham, Alabama 35205  
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Fax: (205) 879-4493

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**MECH. & ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
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Phone: (334) 288-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

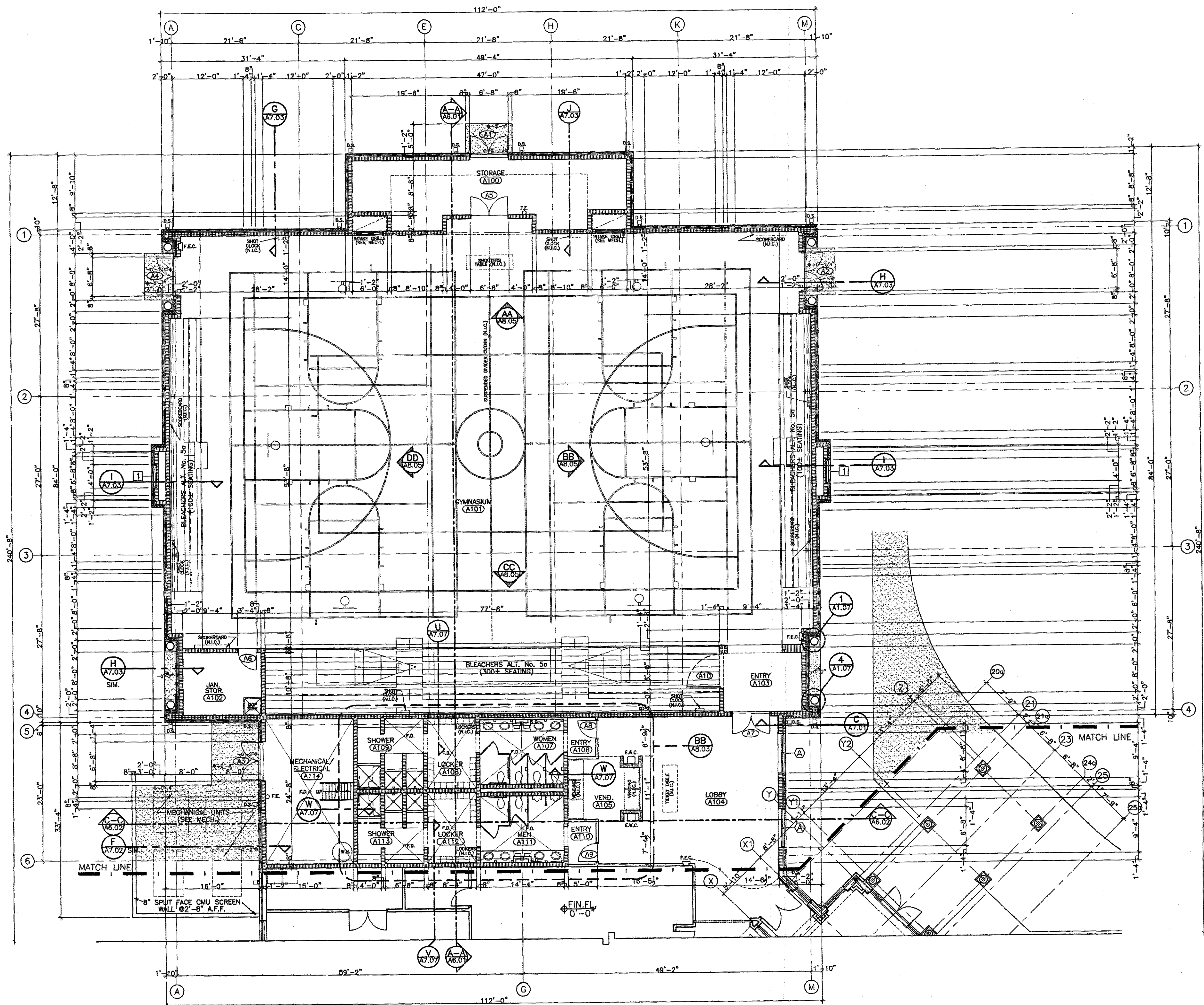


Issue date

Design Development	08/10/01
FINAL	09/17/01

drawn by: OGB, CED  
**BASE BID & ALTERNATE FLOOR PLANS**

95% SUBMITTAL  
**A0.01**  
sheet 00 of 00



**ABBREVIATION/PLAN LEGEND**

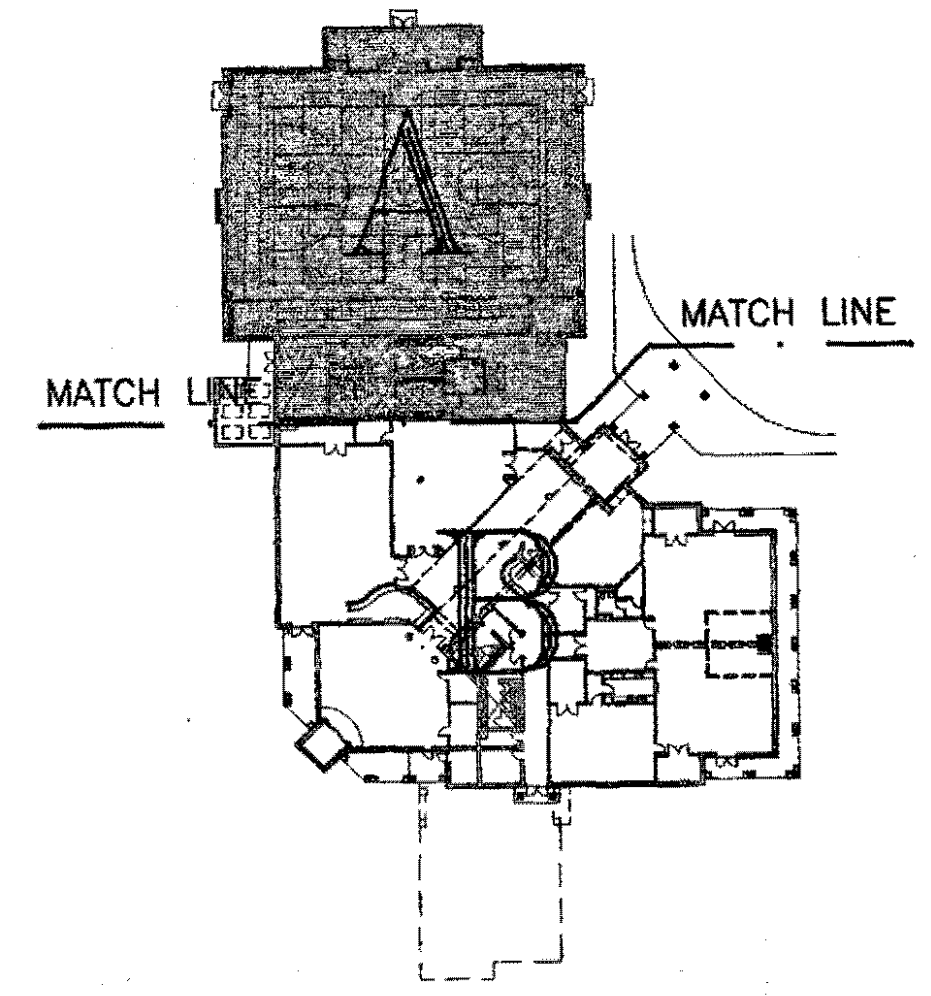
- 8" CMU & 4" CMU VENEER W/ PILASTERS (SEE PLANS FOR SIZE & LOCATION)
- 8" CMU
- 8" CMU W/ 7/8" METAL HAT CHANNELS & 5/8" GYP. BD.
- 6" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE
- 3 5/8" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE

NOTE: EXTEND ALL STUD WALLS UP TO DECK WITH SOUND BATTS UNLESS NOTED OTHERWISE. (SEE CLEARSTORY/HIGH PLANS & SECTIONS)

NOTE: AT ALL CMU WALLS, EXTEND METAL STUDS WITH GYP. BD. & SOUND BATTS UP TO DECK FROM 11'-4" TOP OF CMU. (SEE CLEARSTORY/HIGH PLANS & SECTIONS)

- E.W.C. ELECTRIC WATER COOLER
- F.E. FIRE EXTINGUISHER
- F.E.C. FIRE EXTINGUISHER CABINET
- D.S. DOWNSPOUT W/ CONC. SPLASHBLOCK
- F.D. FLOOR DRAIN
- S.C. STEEL COLUMN
- S.C.A. STEEL COLUMN ABOVE
- N.I.C. NOT IN CONTRACT
- W.H. WATER HEATER

◆ 0'-0" FINISH SPOT ELEVATION



**FLOOR PLAN (PART - A)** BID ITEM NO. 1  
 SCALE: 1/8" = 1'-0"

**GOODWYN, MILLS & INC.**  
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 125 Interstate Park Drive, P.O. Box 9005  
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 Phone: (334) 271-3200  
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 Fax: (205) 879-4465

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**MECH & ELEC. ENGINEER**  
 Gordon & Morris Consulting Engineers, Inc.  
 933 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 289-0359

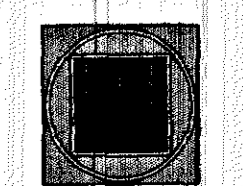
**A NEW RECREATION COMPLEX**  
 FOR THE  
**City of Orange Beach**  
 Alabama

**6-1-019**  
 STATE OF ALABAMA  
 WITHIN EIGHTY SEVEN  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	09/17/01

drawn by: CGB, CED  
**BASE BID FLOOR PLAN PART-A**

**95% SUBMITTAL**  
**A1.01**  
 sheet 00 of 00



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 PLANNING

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 Fax (205) 878-4493

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**MECH. & ELEC. ENGINEER**  
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 933 South Perry Street  
 Montgomery, Alabama 36104  
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**A NEW RECREATION COMPLEX**  
 FOR THE  
 City of Orange Beach  
 Alabama

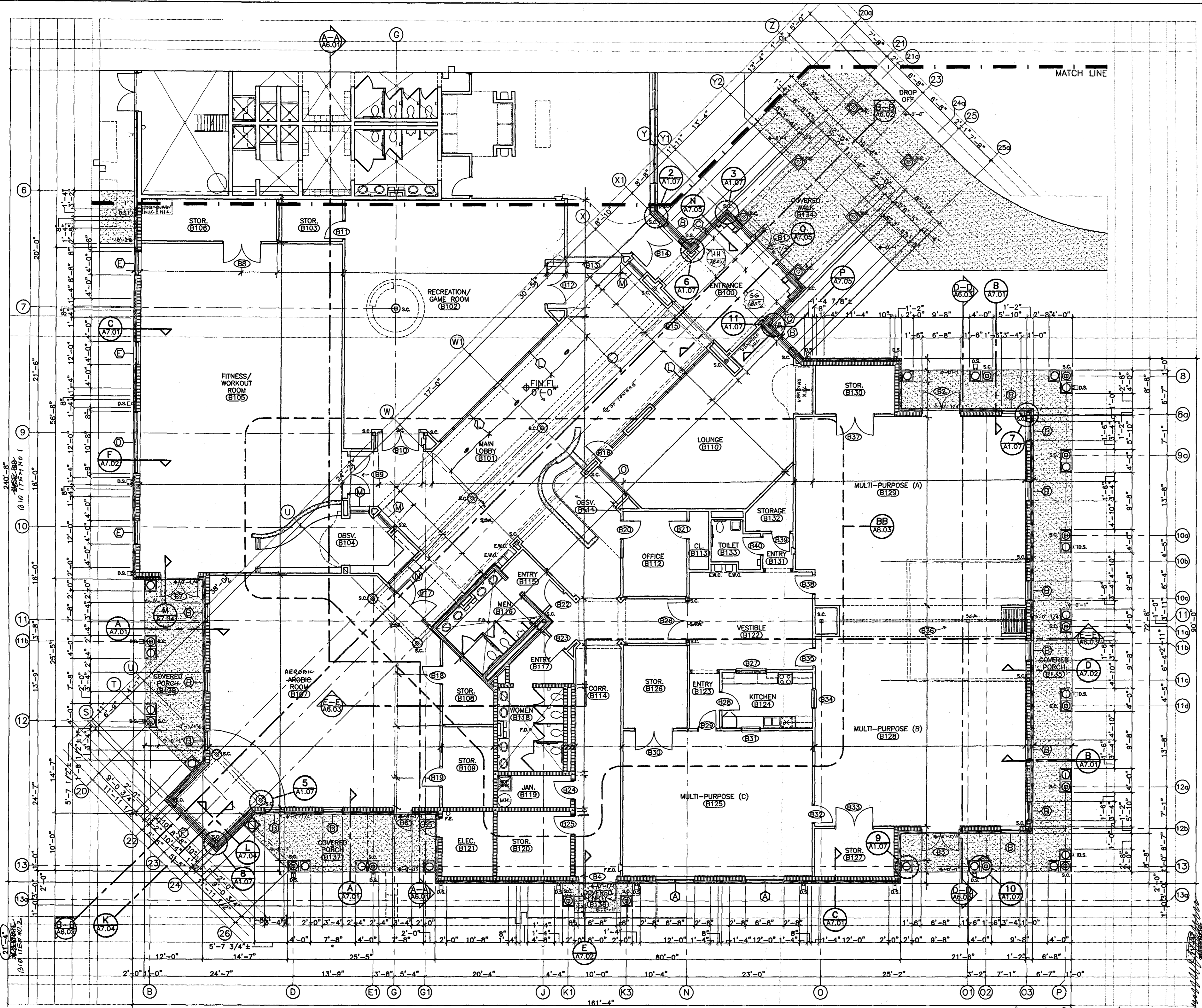
**6-1-019**

STATE OF ALABAMA  
 WATER ELLIOTT WARD  
 2923  
 REGISTERED ARCHITECT

Issue	Date
Design Development	08/10/01
FINAL	00/00/01

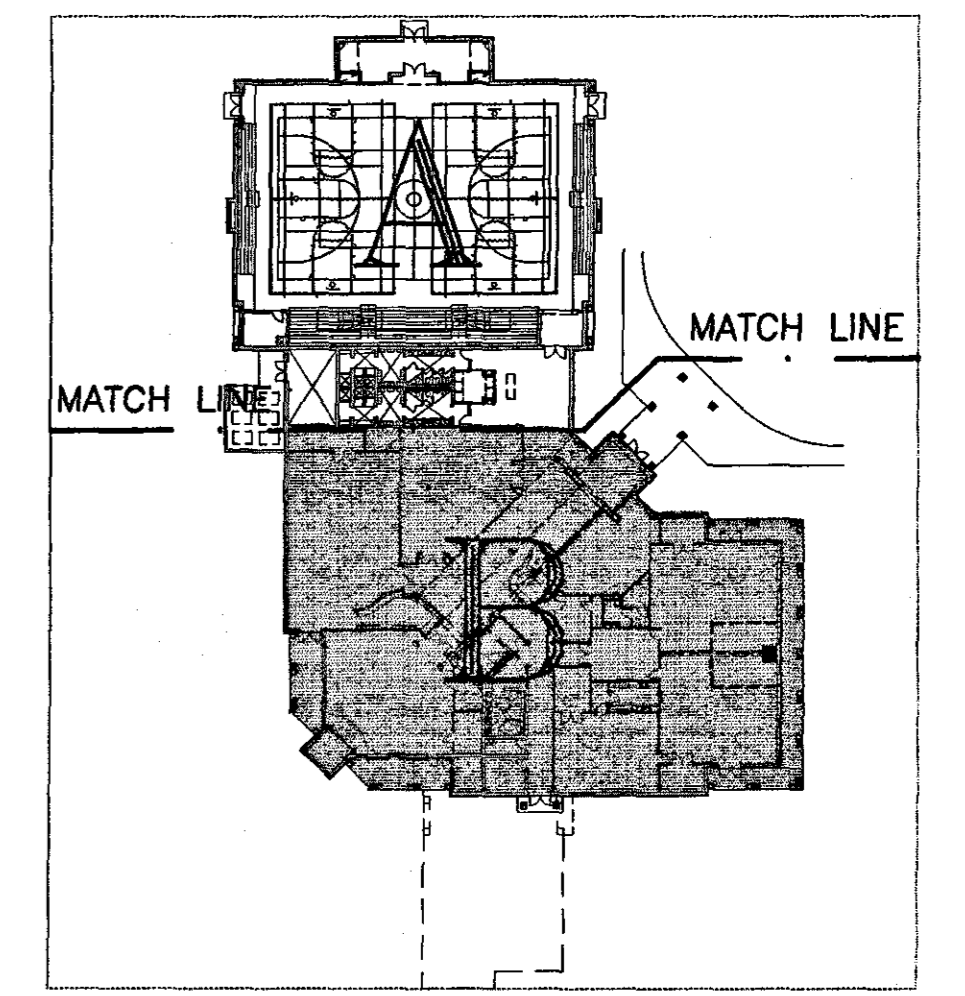
drawn by: CGB, CED  
**BASE BID FLOOR PLAN PART-B**

**95% SUBMITTAL**  
**A1.02**  
 sheet 00 of 00



**ABBREVIATION/PLAN LEGEND**

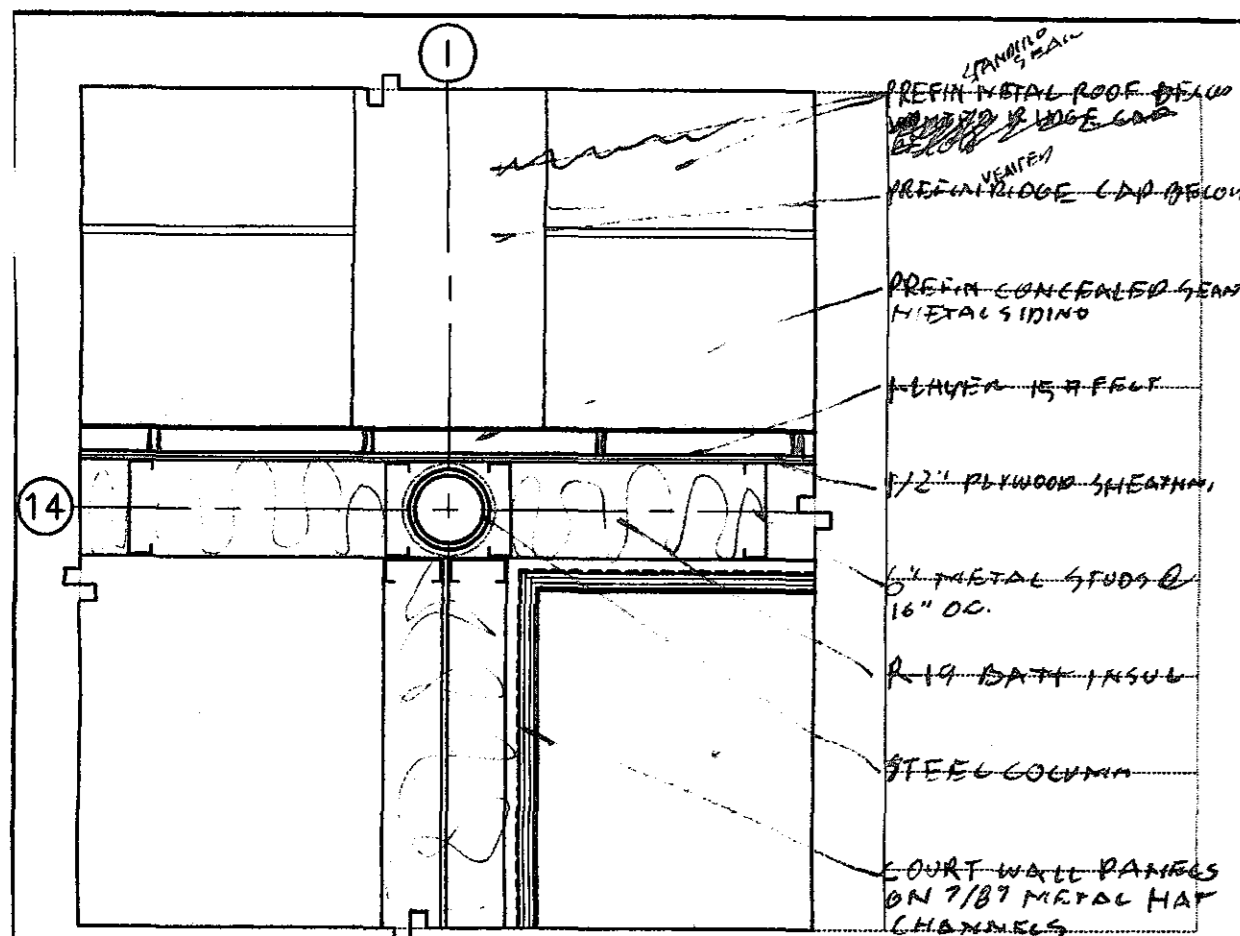
	8" CMU - 4" CMU VENEER W/PILASTERS (SEE PLANS FOR SIZE & LOCATION)
	8" CMU
	8" CMU W/ 7/8" METAL HAT CHANNELS & 5/8" GYP. BD.
	6" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE
	3-5/8" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE
NOTE: EXTEND ALL STUD WALLS UP TO DECK WITH SOUND BATTS UNLESS NOTED OTHERWISE.	
NOTE: AT ALL CMU WALLS, EXTEND METAL STUDS WITH GYP. BD. & SOUND BATTS UP TO DECK FROM 11'-4" TOP OF CMU.	
E.W.C.	ELECTRIC WATER COOLER
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
D.S.	DOWNSPOUT W/ CONG. SPLASHBLOCK
F.D.	FLOOR DRAIN
S.C.	STEEL COLUMN
S.C.A.	STEEL COLUMN ABOVE
N.H.C.	NOT IN CONTACT
W.H.	WATER HEATER
	FINISH SPOT ELEVATION



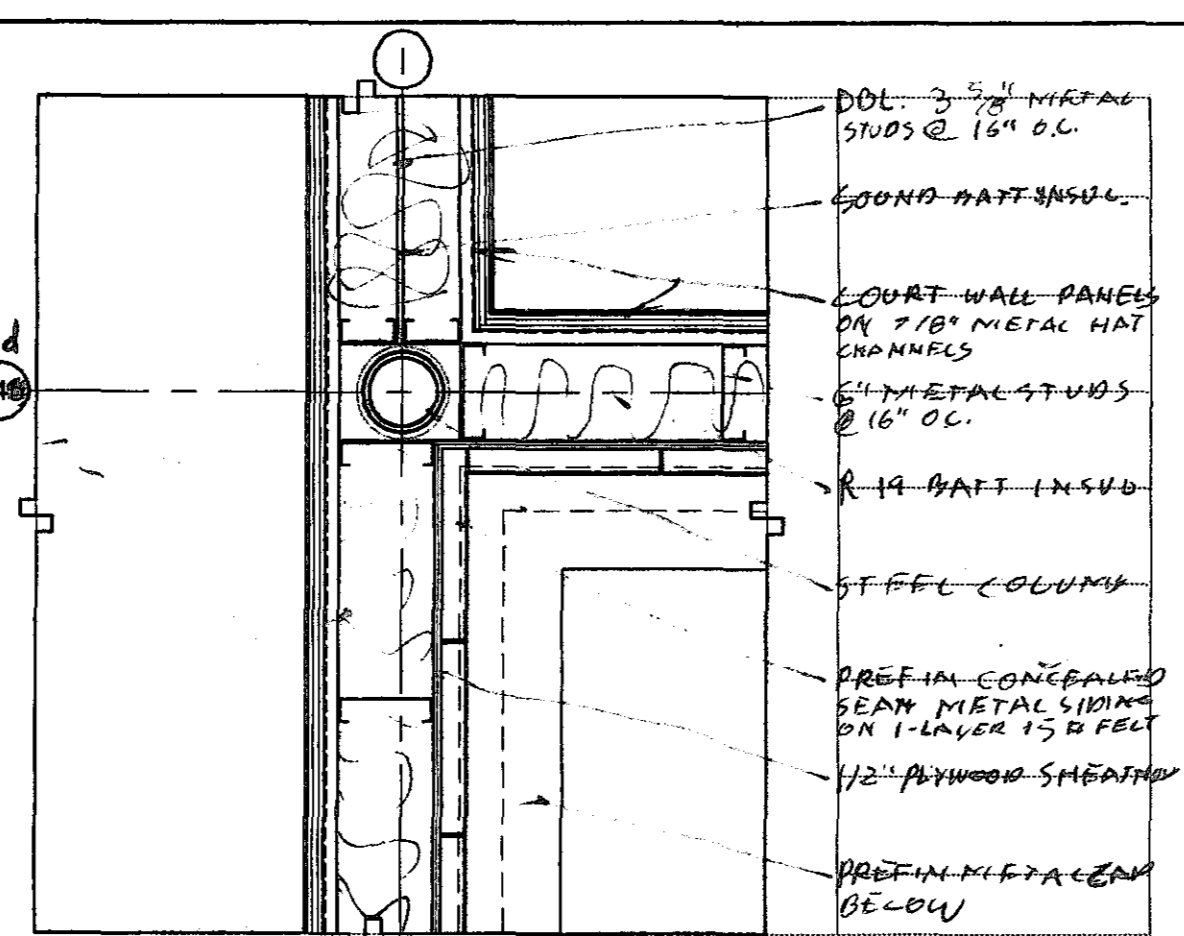
**FLOOR PLAN (PART - B)**  
 SCALE: 1/8" = 1'-0"

**KEY PLAN**  
 SCALE: 1" = 60'-0"

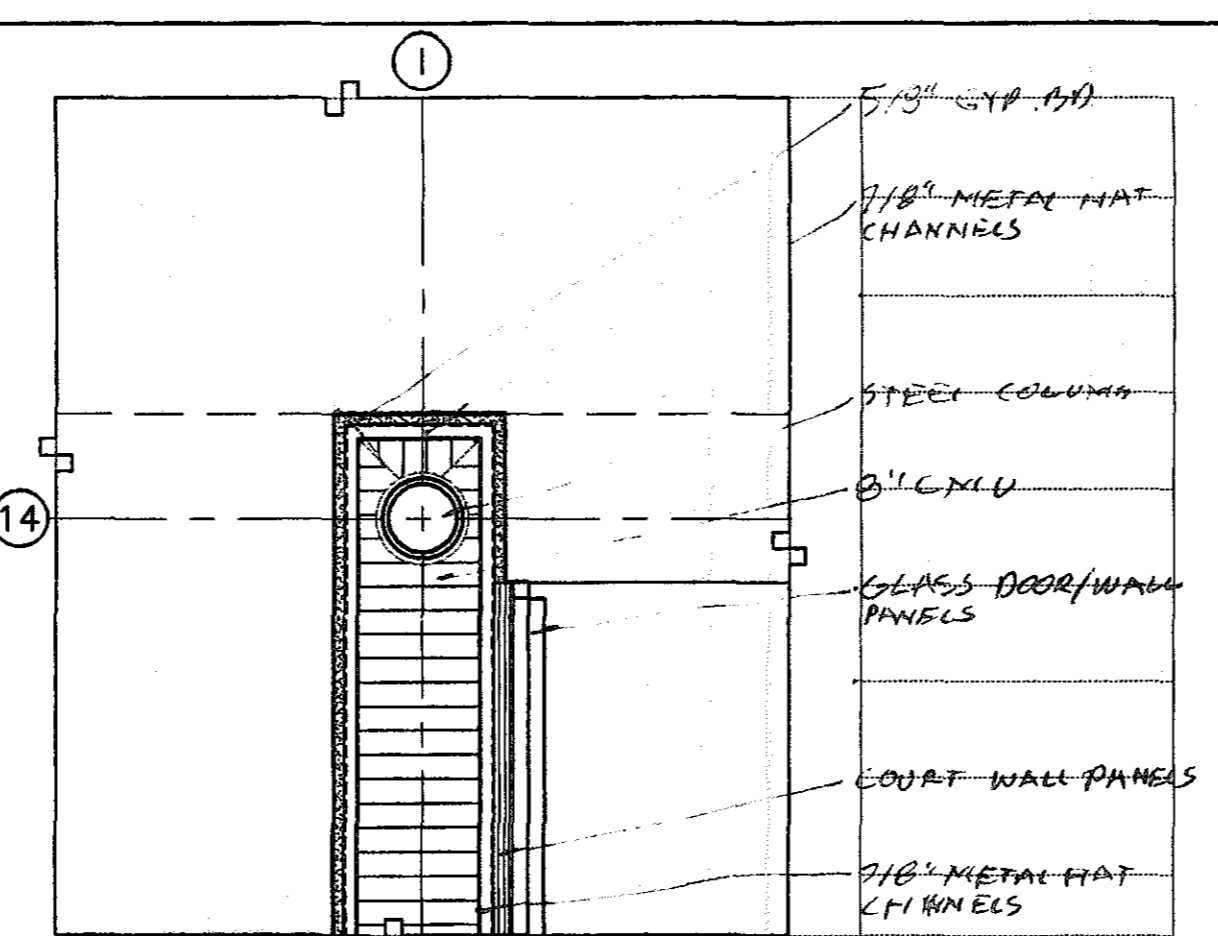
12001 Projects 05-1-019 R01 Orange Beach Rec Park Construction dngs A1.02 Base Floor Plan part B.dwg Wed Sep 12 04:30:15 2001



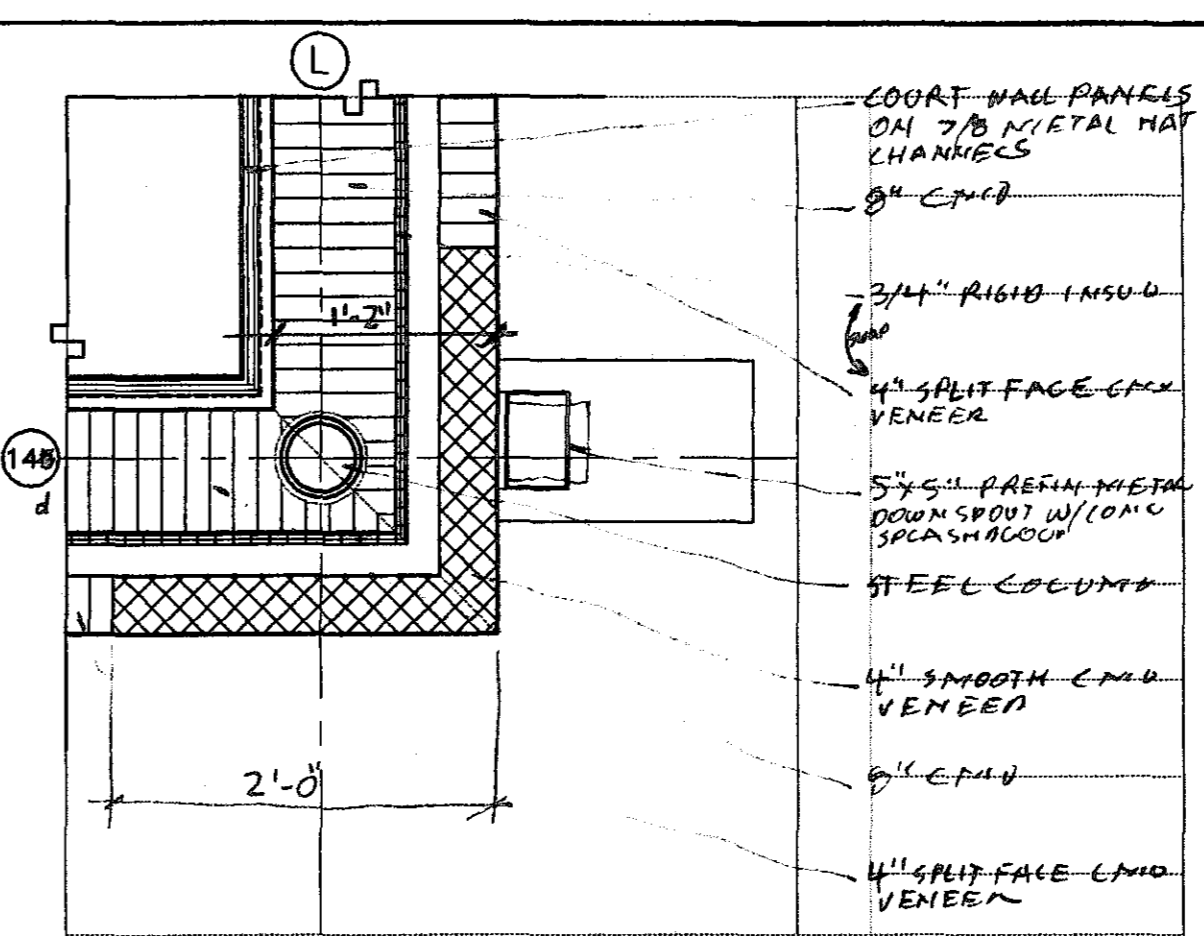
**1 PLAN DETAIL HIGH**  
 A1.03 SCALE: 1" = 1'-0" SC UP--8 / SC DN--125



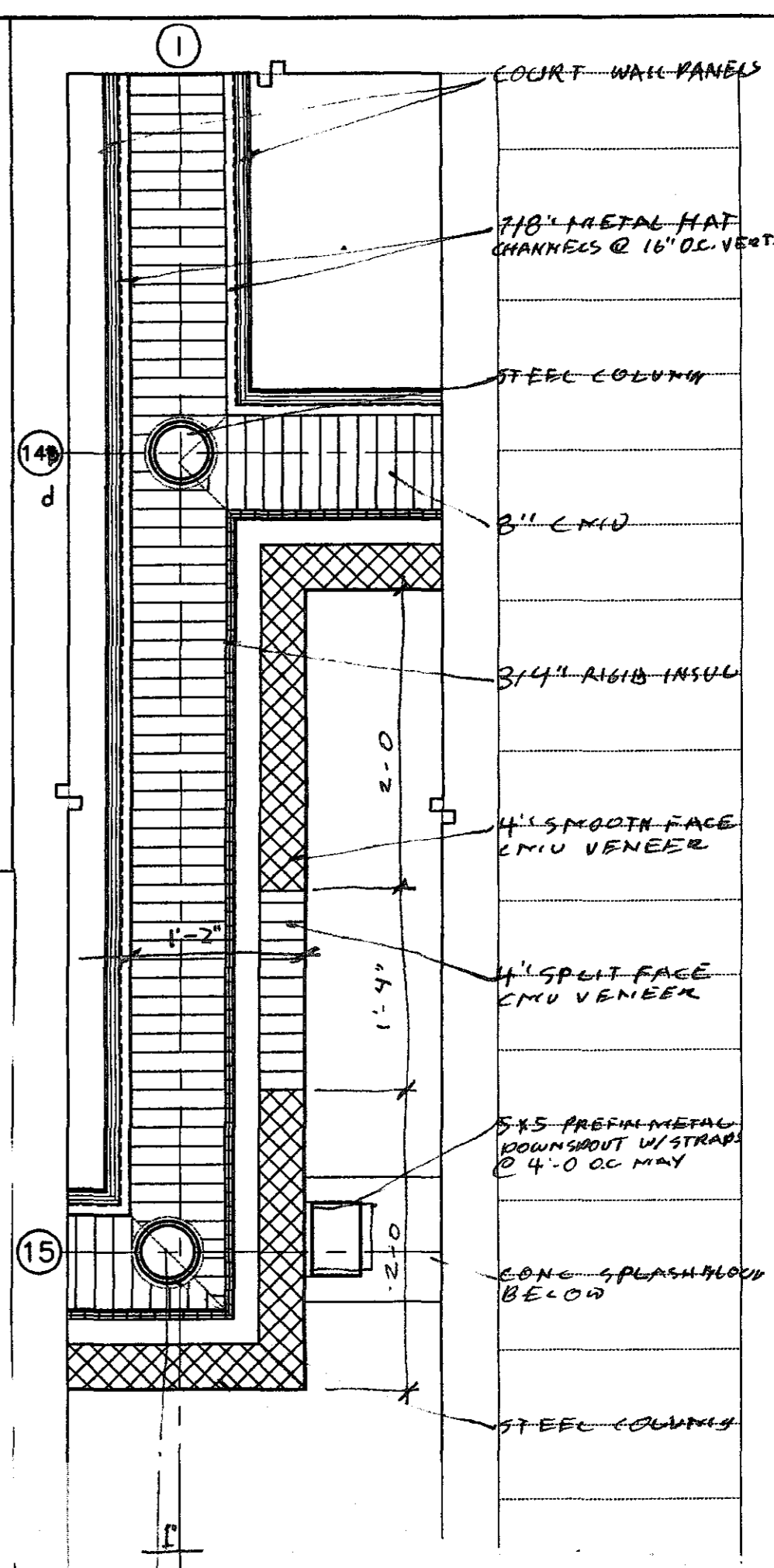
**2 PLAN DETAIL HIGH**  
 A1.03 SCALE: 1" = 1'-0" SC UP--8 / SC DN--125



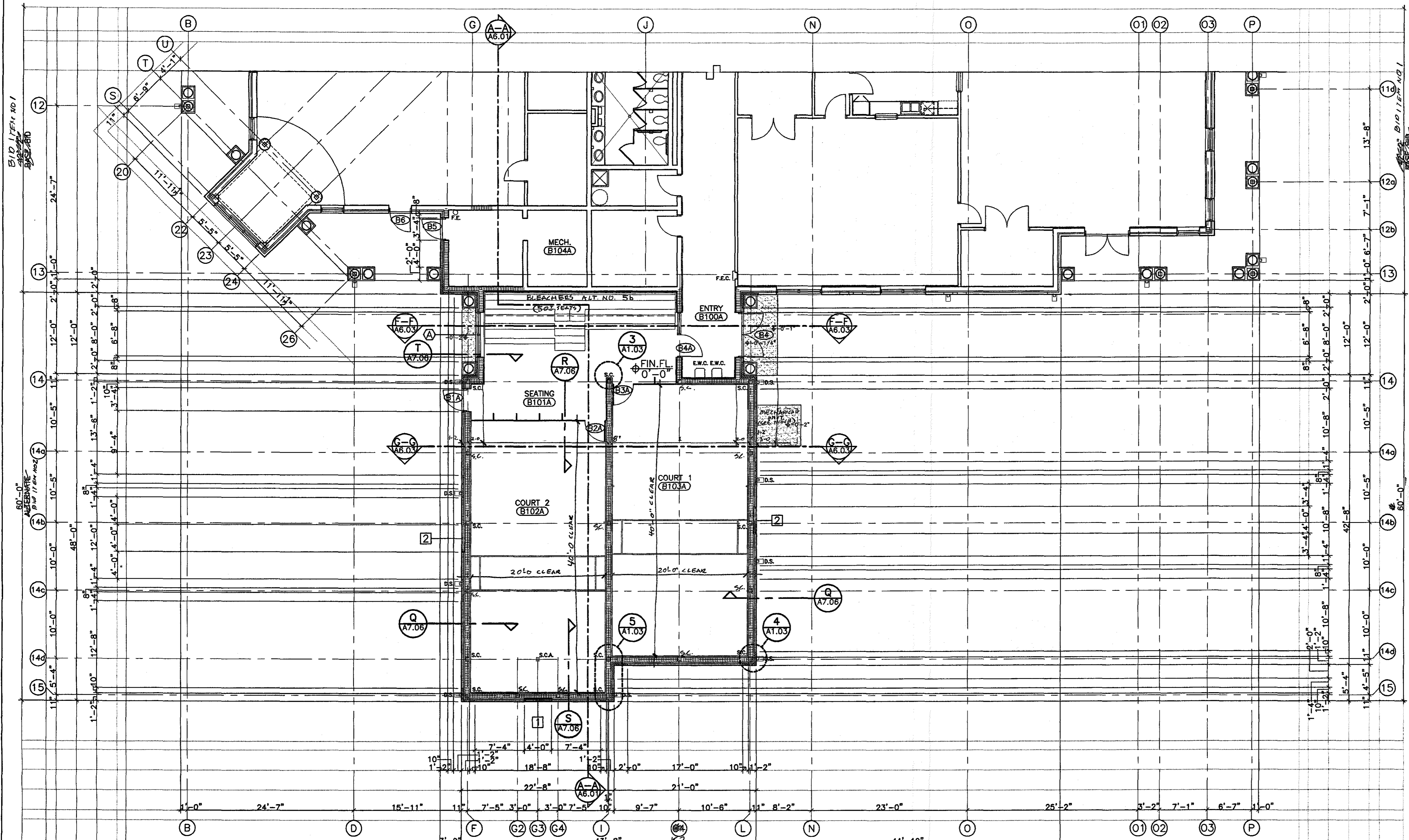
**3 PLAN DETAIL HIGH**  
 A1.03 SCALE: 1" = 1'-0" SC UP--8 / SC DN--125



**4 PLAN DETAIL HIGH**  
 A1.03 SCALE: 1" = 1'-0" SC UP--8 / SC DN--125



**5 PLAN DETAIL HIGH**  
 A1.03 SCALE: 1" = 1'-0" SC UP--8 / SC DN--125



**FLOOR PLAN (PART-B)**  
 SCALE: 1/8" = 1'-0"

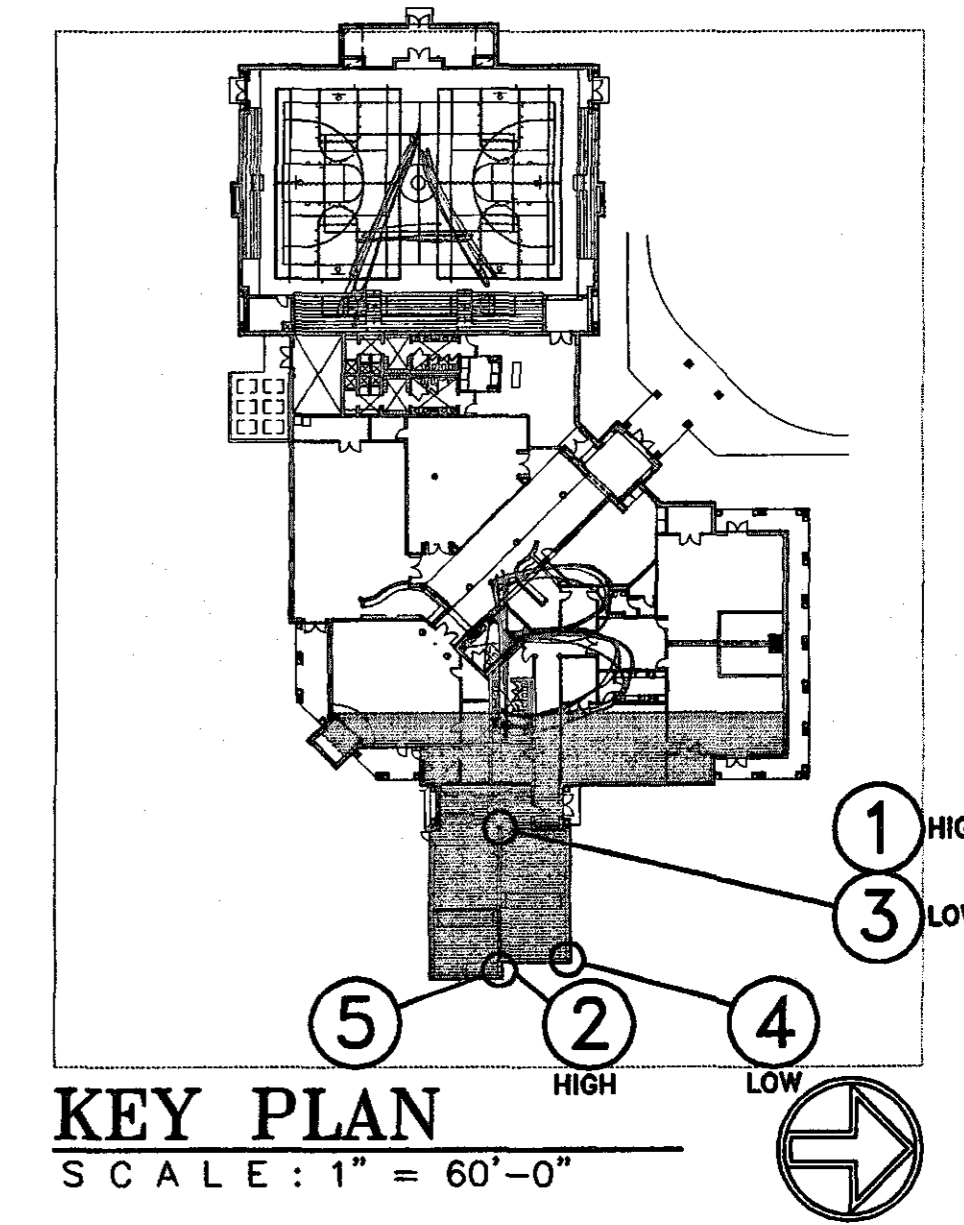
**ABBREVIATION/PLAN LEGEND**

	8" CMU & 4" CMU VENEER W/ PILASTERS (SEE PLANS FOR SIZE & LOCATION)
	8" CMU
	8" CMU W/ 7/8" METAL HAT CHANNELS & 5/8" GYP. BD.
	6" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE
	3-5/8" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE

NOTE: EXTEND ALL STUD WALLS UP TO DECK WITH SOUND BATTS UNLESS NOTED OTHERWISE.  
 NOTE: AT ALL CMU WALLS, EXTEND METAL STUDS WITH GYP. BD. & SOUND BATTS UP TO DECK FROM 11'-4" TOP OF CMU.

E.W.C.	ELECTRIC WATER COOLER
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F.E.C.	FIRE EXTINGUISHER CABINET
D.S.	DOWNSPOUT W/ CONC. SPLASHBLOCK
F.D.	FLOOR DRAIN
S.C.	STEEL COLUMN
S.C.A.	STEEL COLUMN ABOVE

FINISH - SPOT ELEVATION



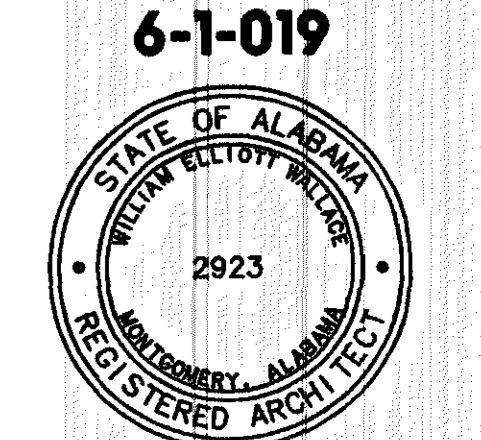
**KEY PLAN**  
 SCALE: 1" = 60'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
 125 Interstate Park Drive, P.O. Box 38025  
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 1102 South 20<sup>th</sup> Street  
 Birmingham, Alabama 35205  
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**MECH. & ELAC. ENGINEER**  
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 903 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 288-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

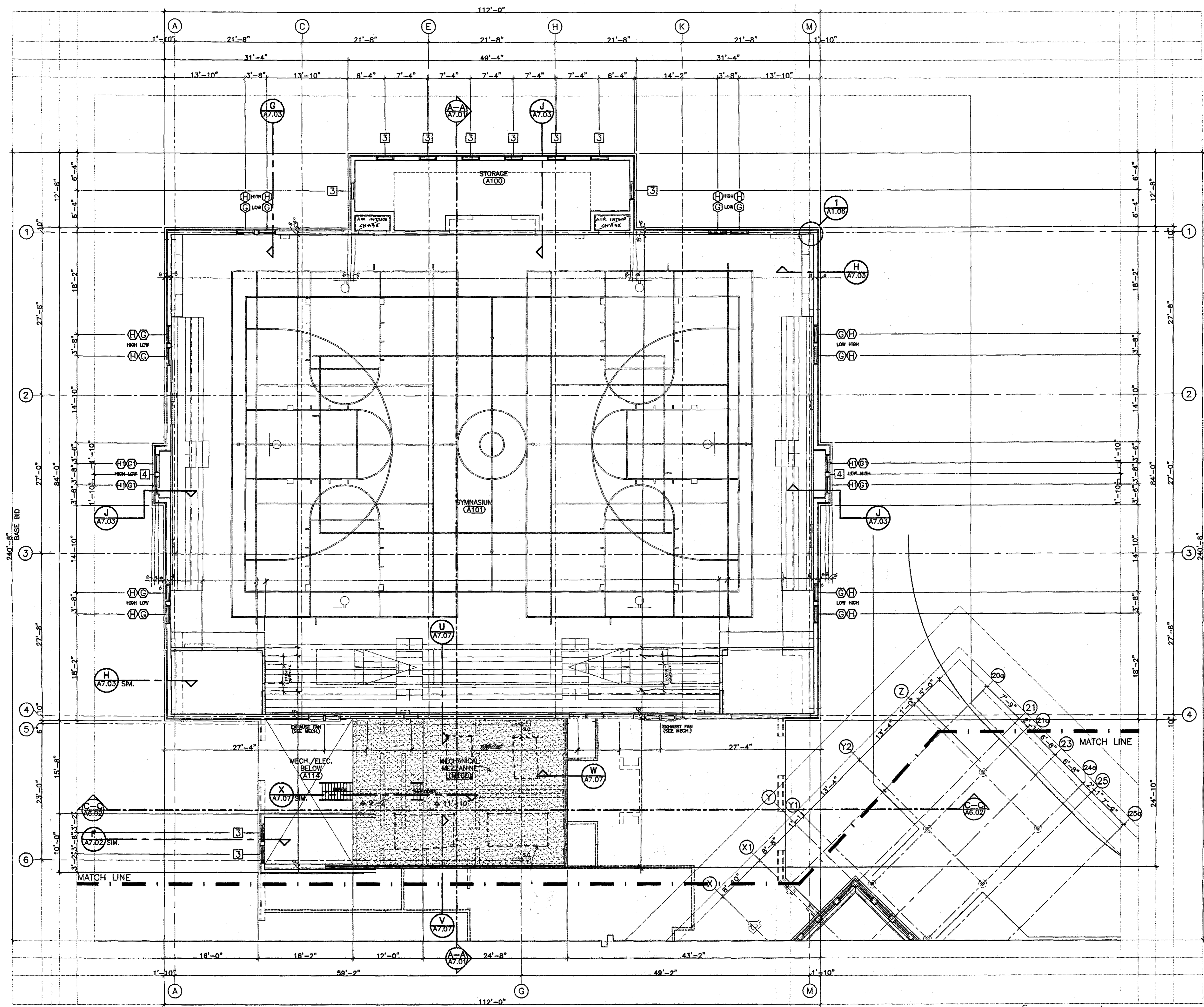


**Issue date**

Design Development	08/10/01
FINAL	00/00/01

drawn by: CGB, CED  
**ALTERNATE FLOOR PLAN PART-B**

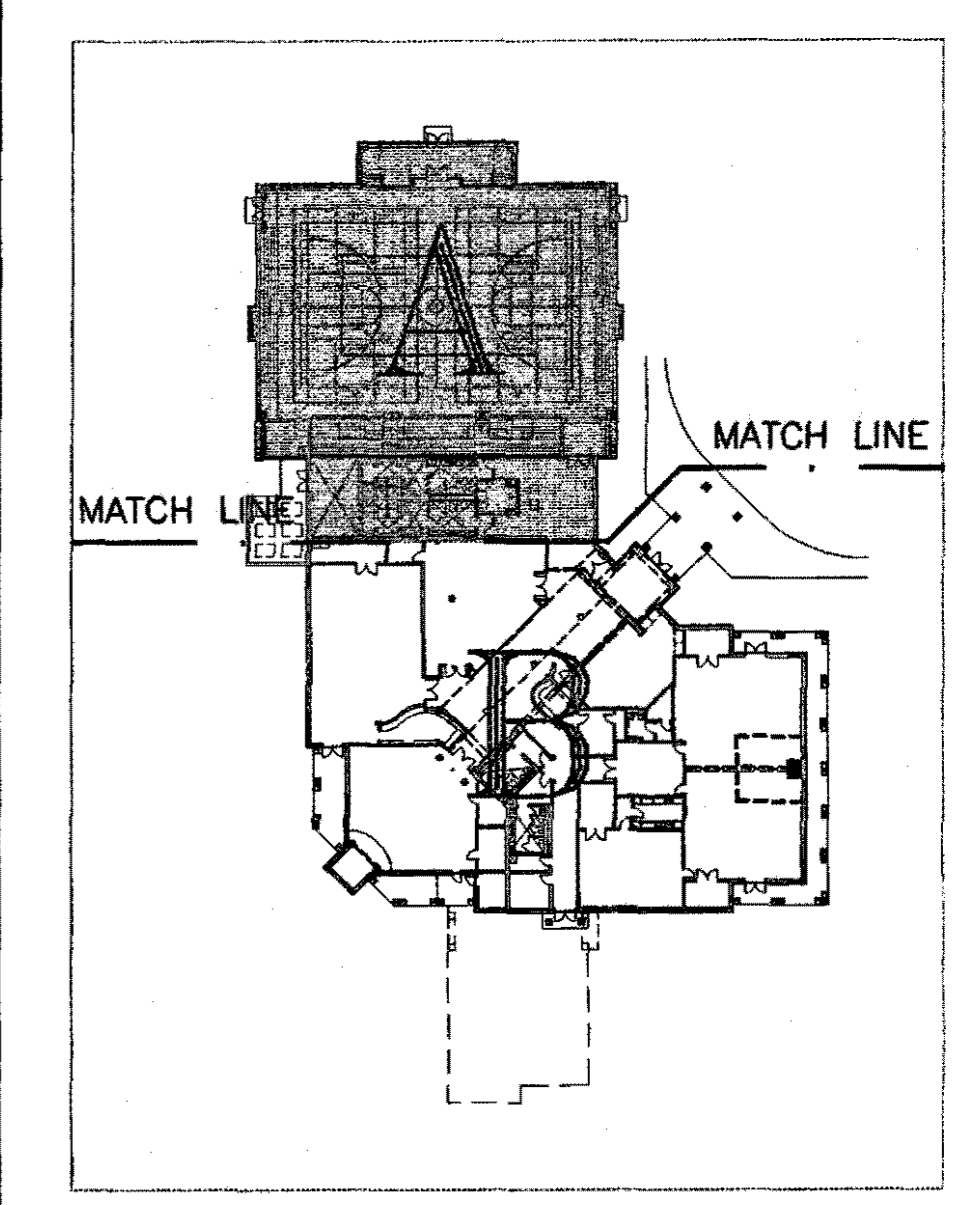
95% SUBMITTAL  
**A1.03**  
 sheet 00 of 00



**CLEARSTORY/HIGH FLOOR PLAN (PART - A)**  
 SCALE: 1/8" = 1'-0"

**ABBREVIATION/PLAN LEGEND**

	6" METAL STUDS W/ METAL SIDING ON 1/2" PLYWOOD, 5/8" GYP. BD. AND R-19 BATT INSUL.
	3-5/8" METAL STUDS W/SOUND BATT. INSUL. & 5/8" GYP. BD. EACH SIDE
	3-5/8" METAL STUDS W/ 5/8" GYP. BD. EACH SIDE
	LINE OF WALL BELOW
	LINE OF 3-5/8" METAL STUD-WALL TO BE EXTENDED TO DECK. (SEE FLOOR PLAN LEGEND)
	CONCRETE SLAB
	STEEL COLUMN



**KEY PLAN**  
 SCALE: 1" = 60'-0"  
 SCALE UP 7.5 SCALE DOWN .13333

**GOODWYN, MILLS & CAWOOD, Inc.**  
 ENGINEERING  
 ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 125 Interstate Park Drive, P.O. Box 3005  
 Montgomery, Alabama 36109  
 Phone: (334) 271-3800  
 Fax: (334) 272-1588  
 1102 South 27th Street  
 Birmingham, Alabama 35205  
 Phone: (205) 678-4462  
 Fax: (205) 678-4463

**STRUCTURAL ENGINEER**  
 Terry Ghent, P.E.  
 525 North Hull Street  
 Montgomery, Alabama 36104  
 Phone: (334) 265-4631

**MECH. & ELEC. ENGINEER**  
 Borden & Morris Consulting Engineers, Inc.  
 909 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 268-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

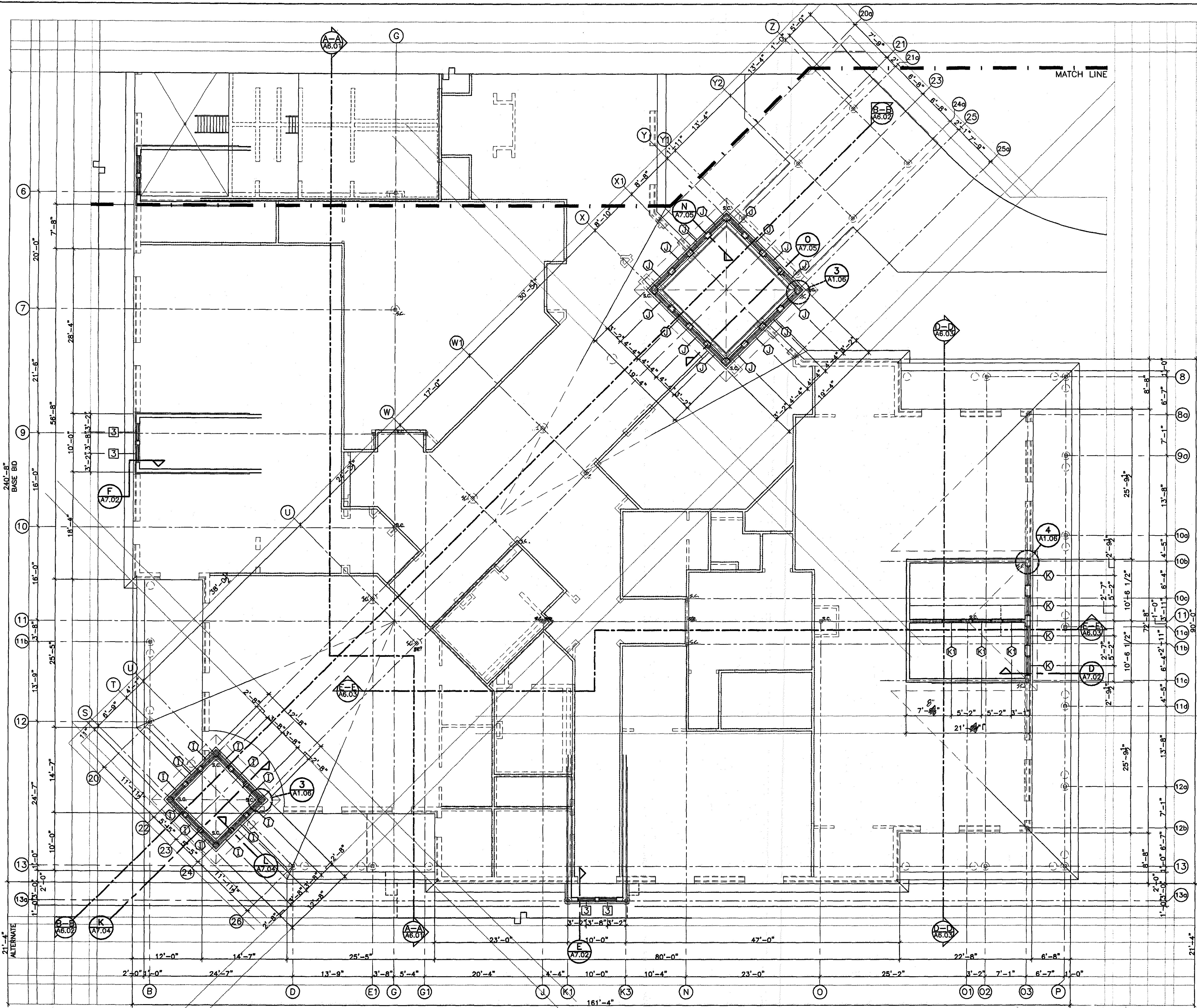
6-1-019  
 STATE OF ALABAMA  
 PROFESSIONAL REGISTERED ARCHITECT  
 2923

<b>Issue date</b>	
Design Development	08/10/01
FINAL	00/00/01

drawn by: OGB, CEI  
**BASE BID CLEARSTORY/HIGH FLOOR PLAN PART-A**

95% SUBMITTAL  
**A1.04**  
 sheet 00 of 00

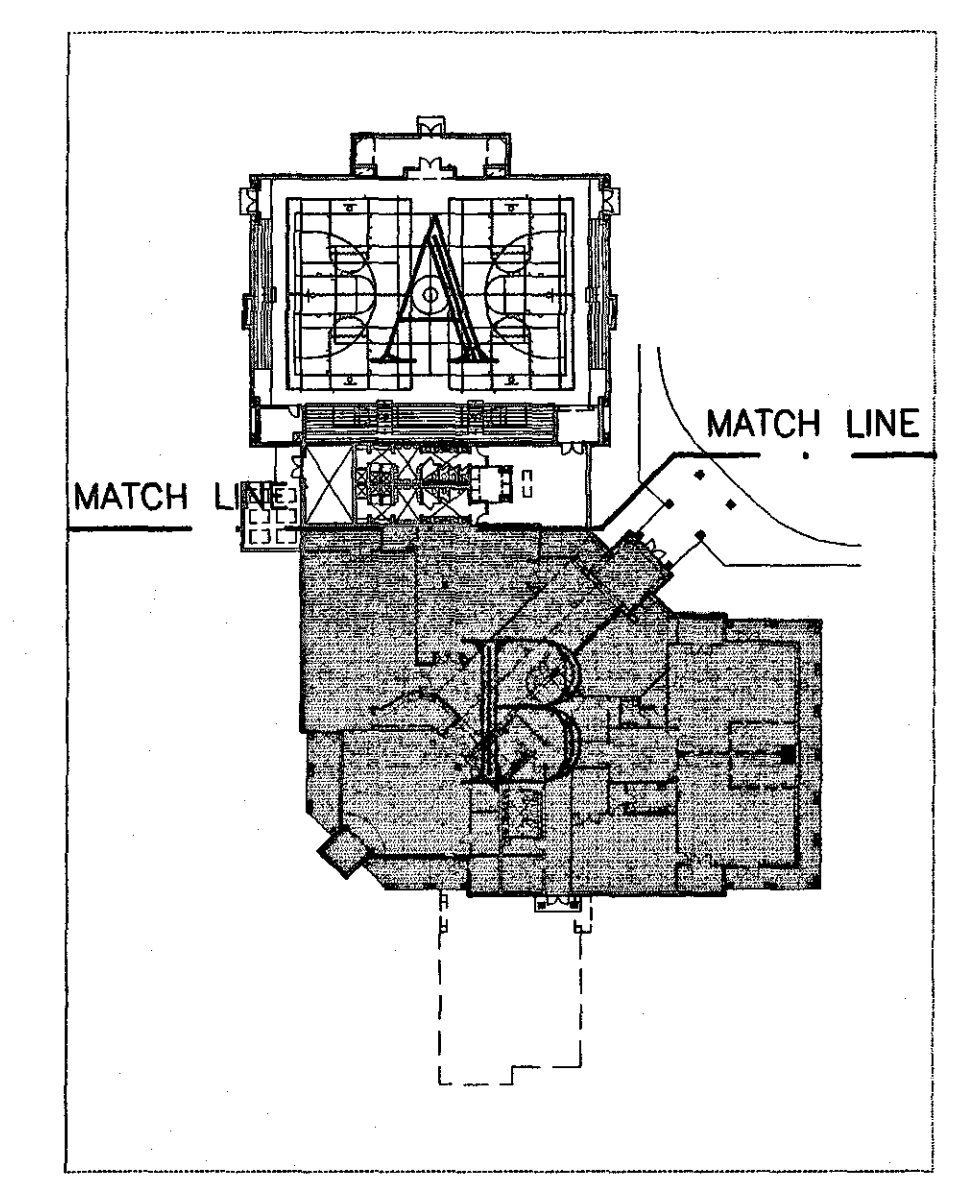
2001 Projects 6-1-019 R00 Orange Beach Rec Park Construction dings M1.04 Base High Floor Plan Part A.dwg Wed Sep 12 06:15:45 2001



**CLEARSTORY/HIGH FLOOR PLAN (PART - B)**  
 SCALE: 1/8" = 1'-0"

**ABBREVIATION/PLAN LEGEND**

	6" METAL STUDS W/ METAL SIDING ON 1/2" PLYWOOD, 5/8" GYP. BD. AND R-19 BATT INSUL.
	LINE-OF WALL-BELOW
	LINE-OF 3-5/8" METAL STUD-WALL TO BE EXTENDED TO DECK. (SEE FLOOR PLAN LEGEND)
	STEEL COLUMN



**KEY PLAN**  
 SCALE: 1" = 60'-0"

**GOODWYN, MILLS & INC.**  
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 125 Interstate Park Drive, P.O. Box 3605  
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 Fax: (334) 272-1996  
 1102 South 20th Street  
 Birmingham, Alabama 35205  
 Phone: (205) 878-4462  
 Fax: (205) 878-4483

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 Phone: (334) 268-4631  
**MECH. & ELEC. ENGINEER**  
 Darden & Morris Consulting Engineers, Inc.  
 803 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 288-0329

**A NEW RECREATION COMPLEX**  
 FOR THE  
*City of Orange Beach*  
 alabama

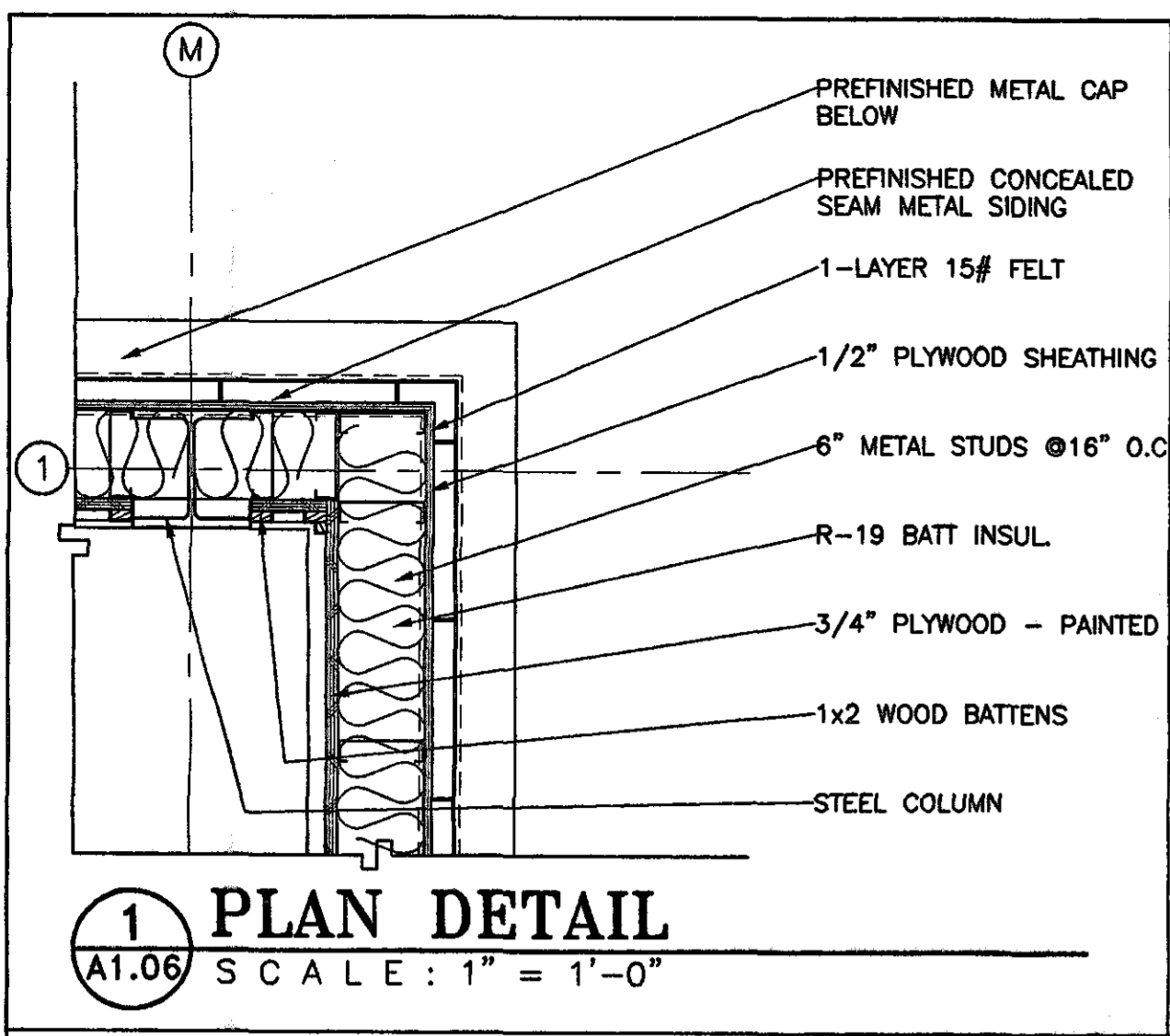
**6-1-019**  
 STATE OF ALABAMA  
 WESTERN ELECTRIC BUILDERS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	09/03/01

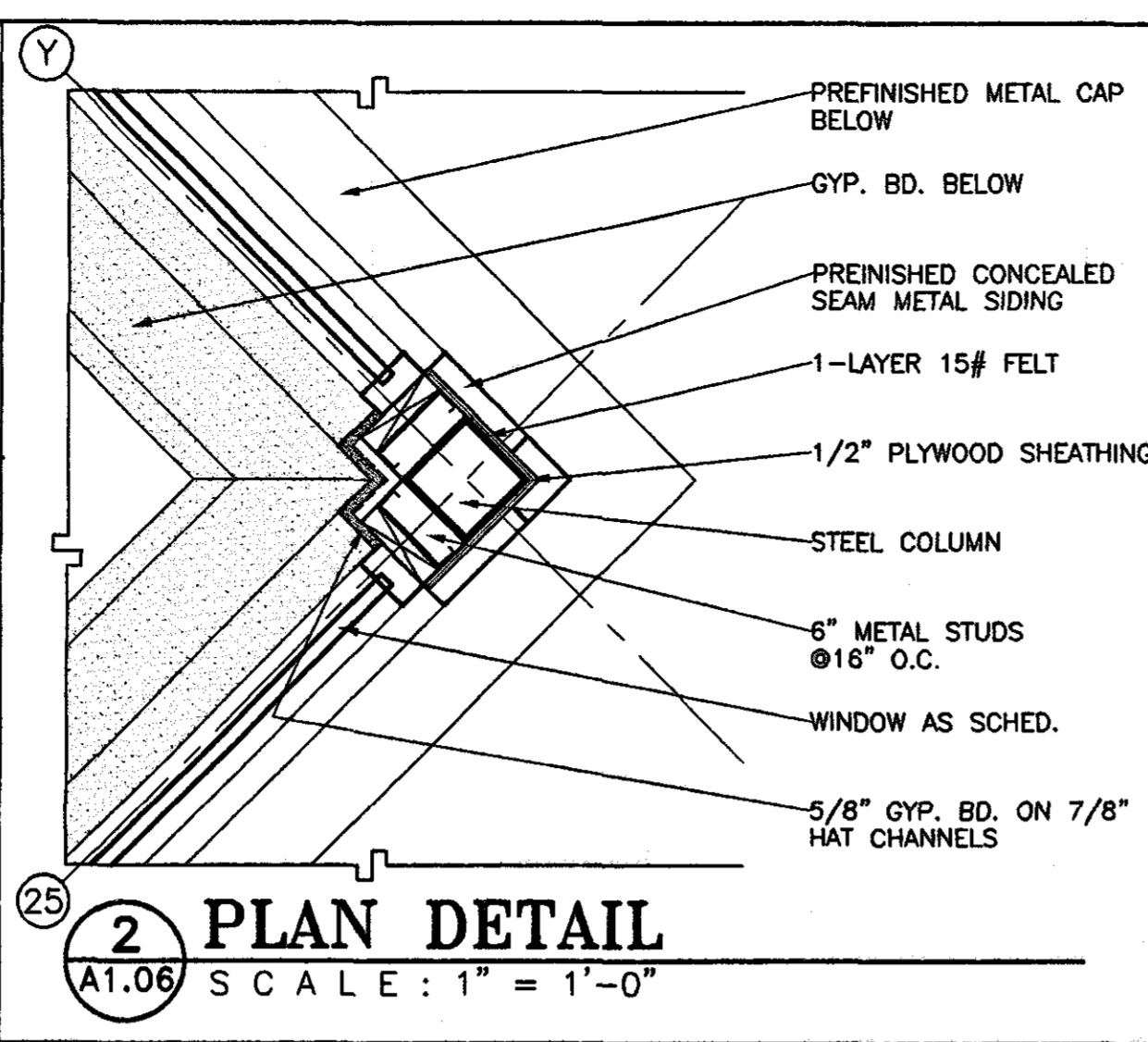
drawn by: OGB, CED  
**BASE BID CLEARSTORY/HIGH FLOOR PLAN PART-B**

95% SUBMITTAL  
**A1.05**  
 sheet 00 of 00

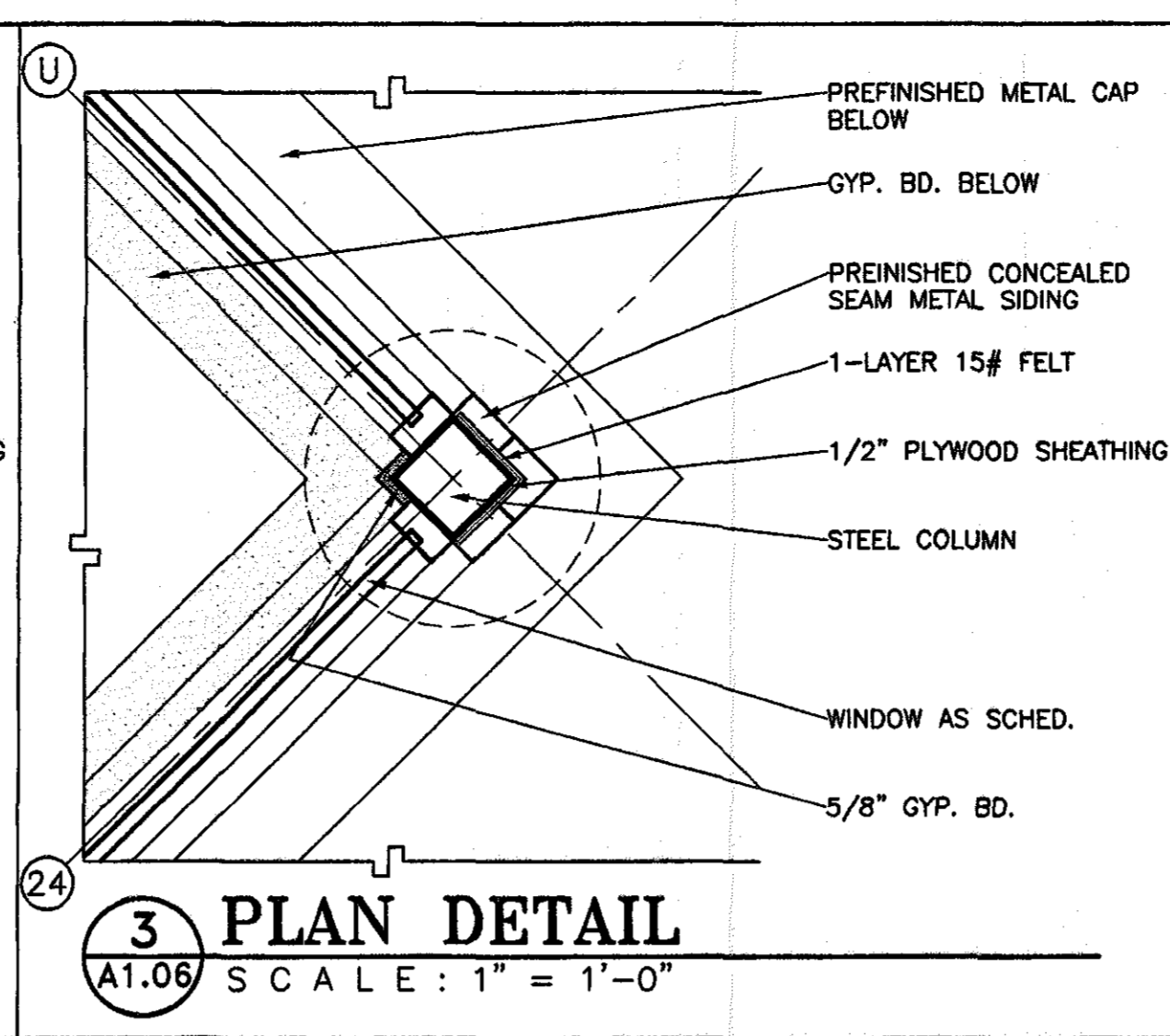
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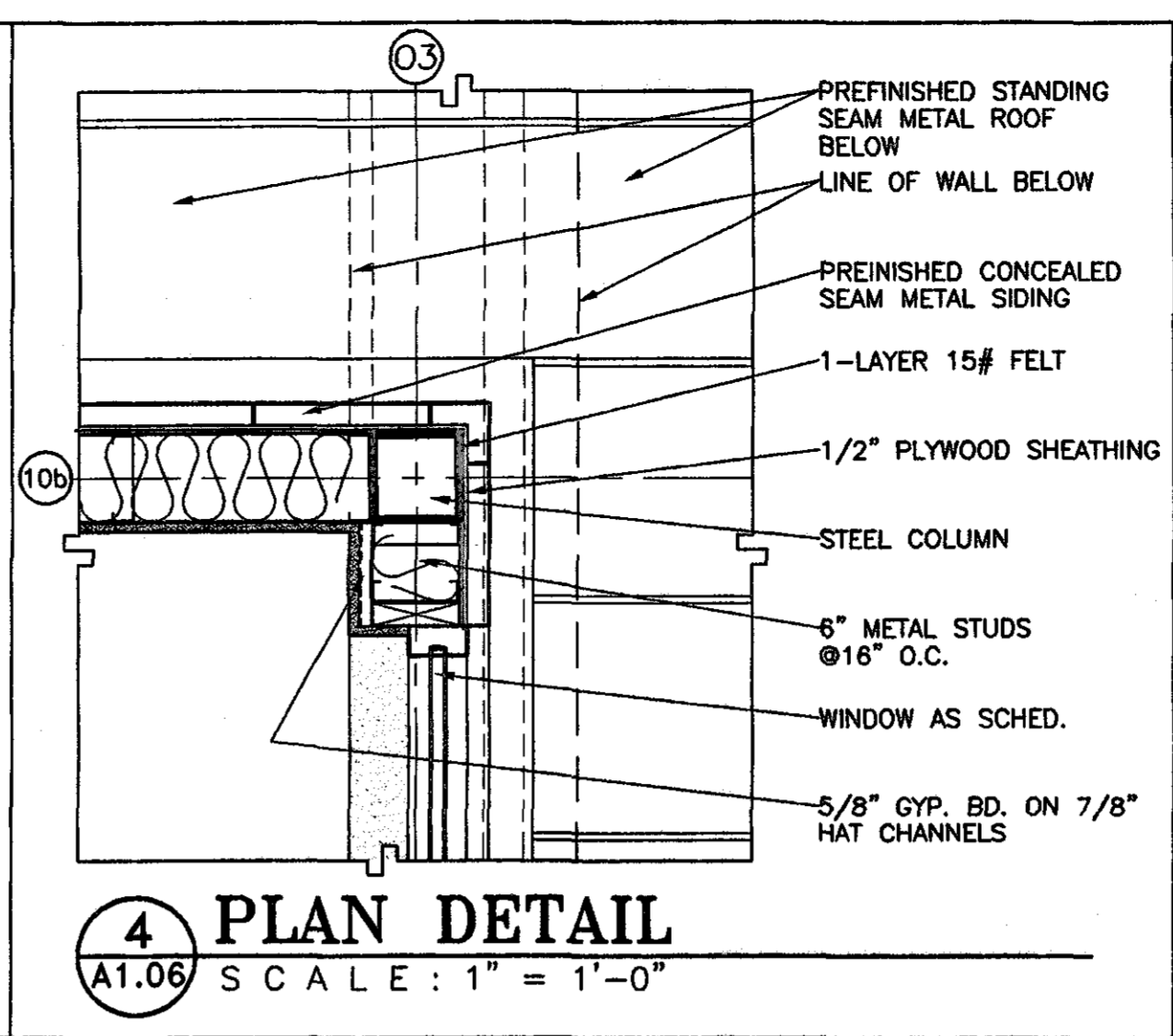
**1 PLAN DETAIL**  
A1.06 SCALE: 1" = 1'-0"



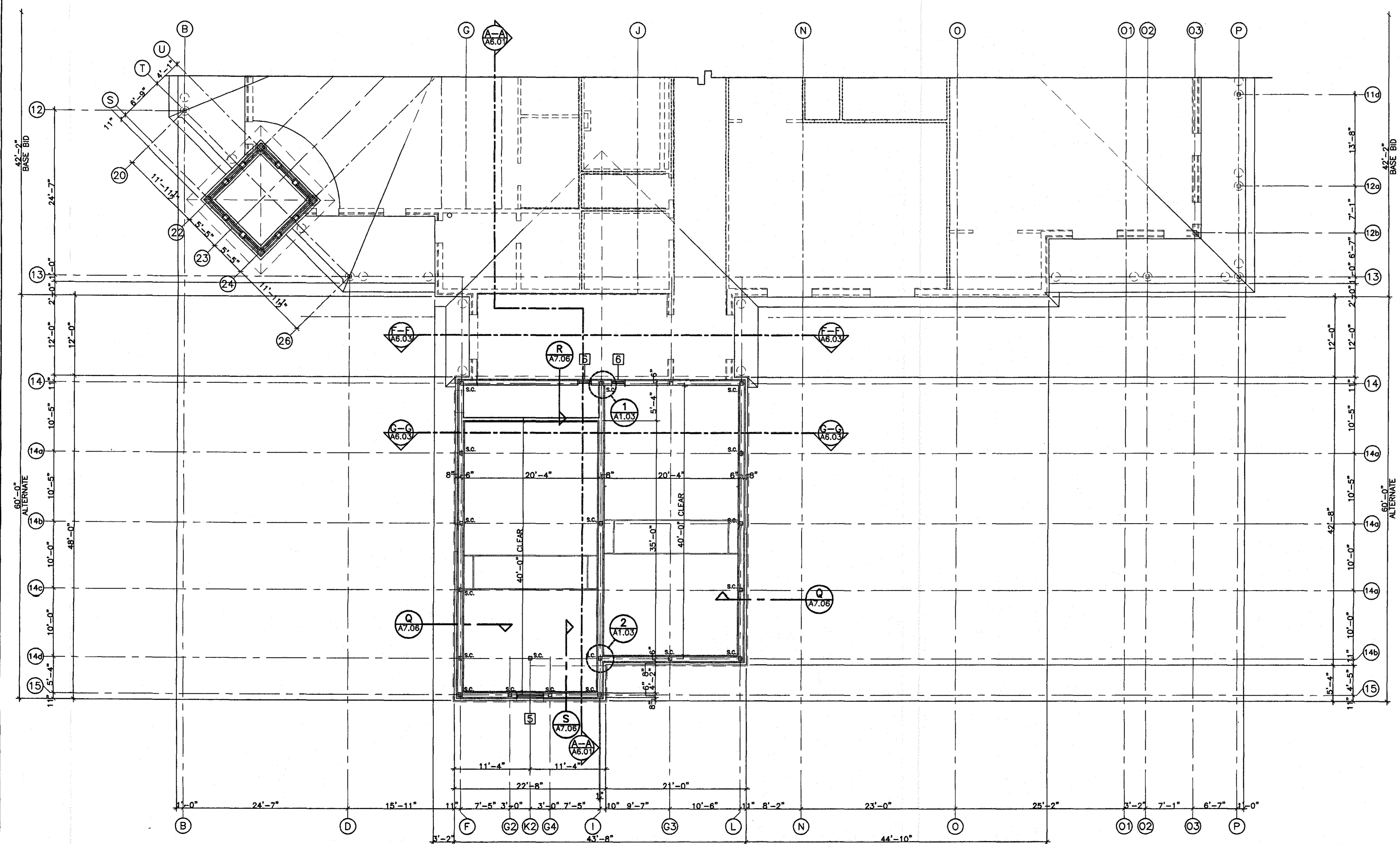
**2 PLAN DETAIL**  
A1.06 SCALE: 1" = 1'-0"



**3 PLAN DETAIL**  
A1.06 SCALE: 1" = 1'-0"



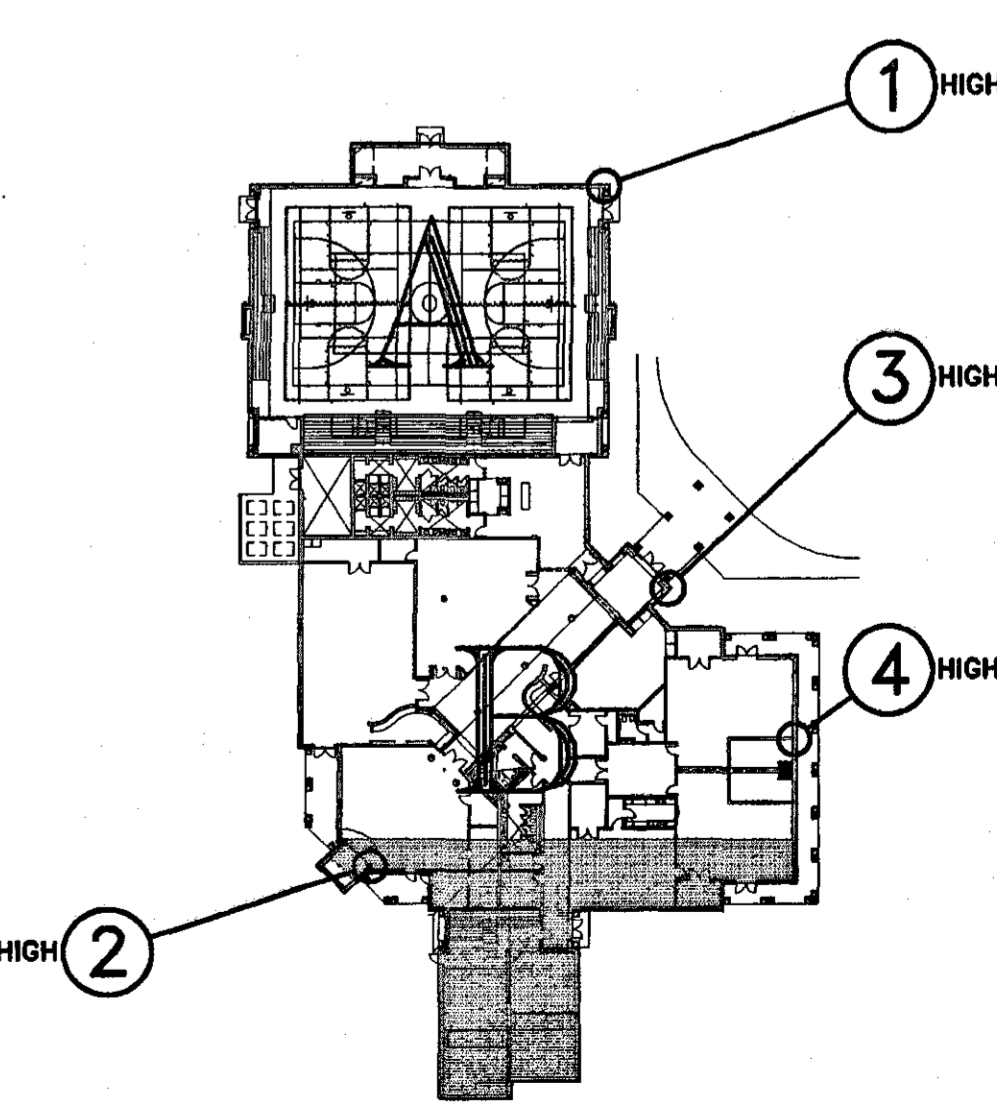
**4 PLAN DETAIL**  
A1.06 SCALE: 1" = 1'-0"



**CLEARSTORY/HIGH FLOOR PLAN (PART-B) BID ITEM NO. 2**  
SCALE: 1/8" = 1'-0"

**ABBREVIATION/PLAN LEGEND**

	6" METAL STUDS W/ METAL SIDING ON 1/2" PLYWOOD, 5/8" GYP. BD. AND R-19 BATT INSUL.
	LINE OF WALL BELOW
	LINE OF 3 5/8" METAL STUD WALL TO BE EXTENDED TO DECK. (SEE FLOOR PLAN LEGEND)
S.C.	STEEL COLUMN

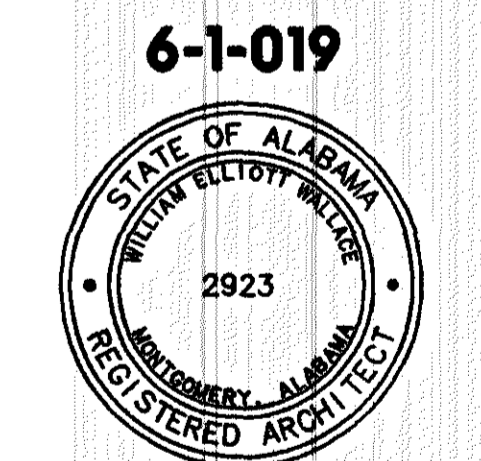


**KEY PLAN**  
SCALE: 1" = 60'-0"

**GOODWYN, MILLS & CAWOOD, Inc.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 3605  
Montgomery, Alabama 36104  
Phone: (334) 271-3200  
Fax: (334) 272-1596  
1102 South 20<sup>th</sup> Street  
Birmingham, Alabama 35205  
Phone: (205) 878-4482  
Fax: (205) 878-4483

**STRUCTURAL ENGINEER**  
Terry Grant, P.E.  
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Montgomery, Alabama 36104  
Phone: (334) 265-4631  
**MECH. & ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 268-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**



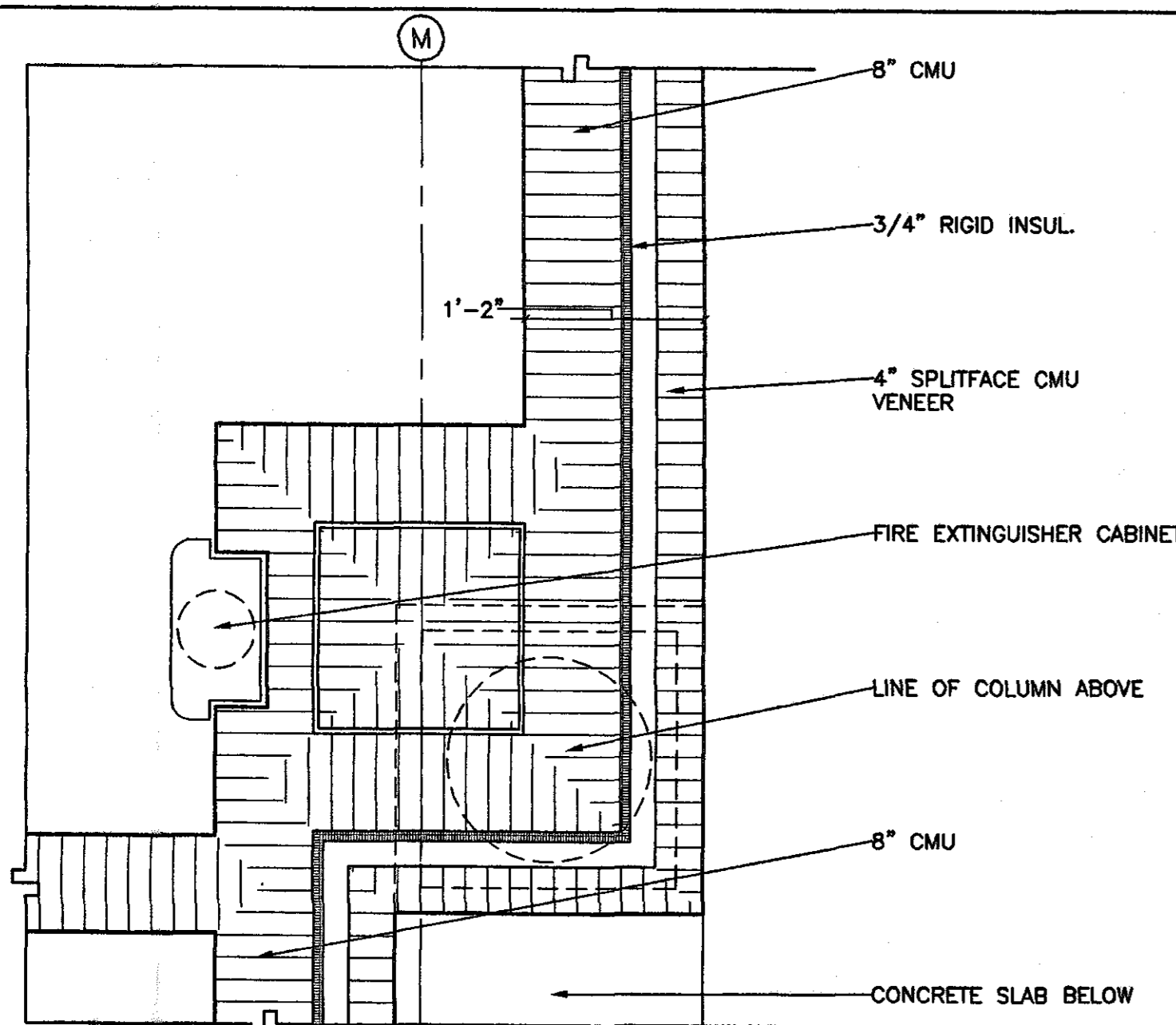
Issue	Date
Design Development	08/10/01
FINAL	09/17/01

drawn by: CGB, CED  
**ALTERNATE CLEARSTORY/HIGH FLOOR PLAN PART-B**

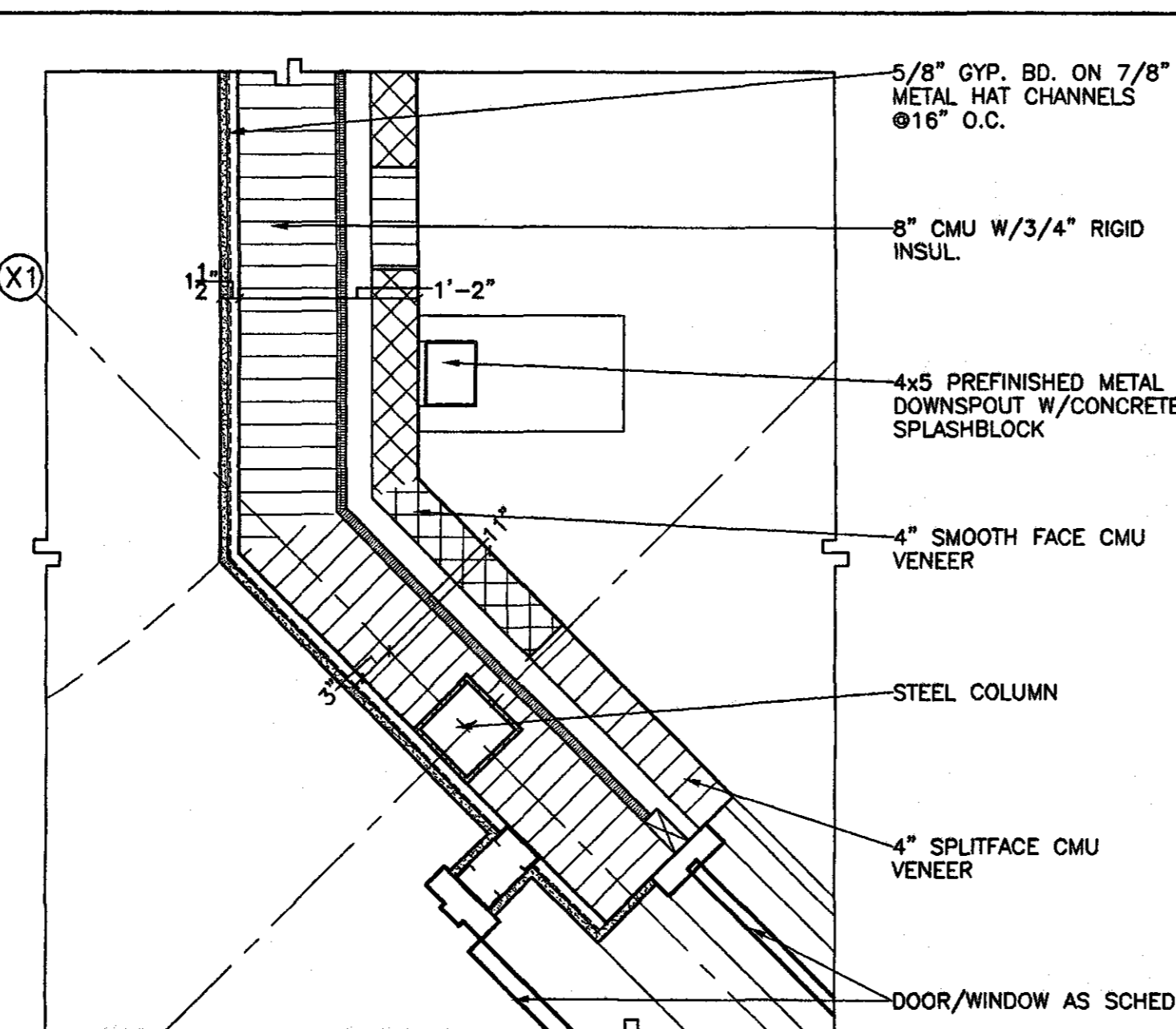
95% SUBMITTAL  
**A1.06**  
sheet 00 of 00

Project: 1-019 ROD Orange Beach Rec Park W/Construction dgs A1.06 Alt High Floor Plan part B.dwg Tue Sep 18 16:43:10 2001

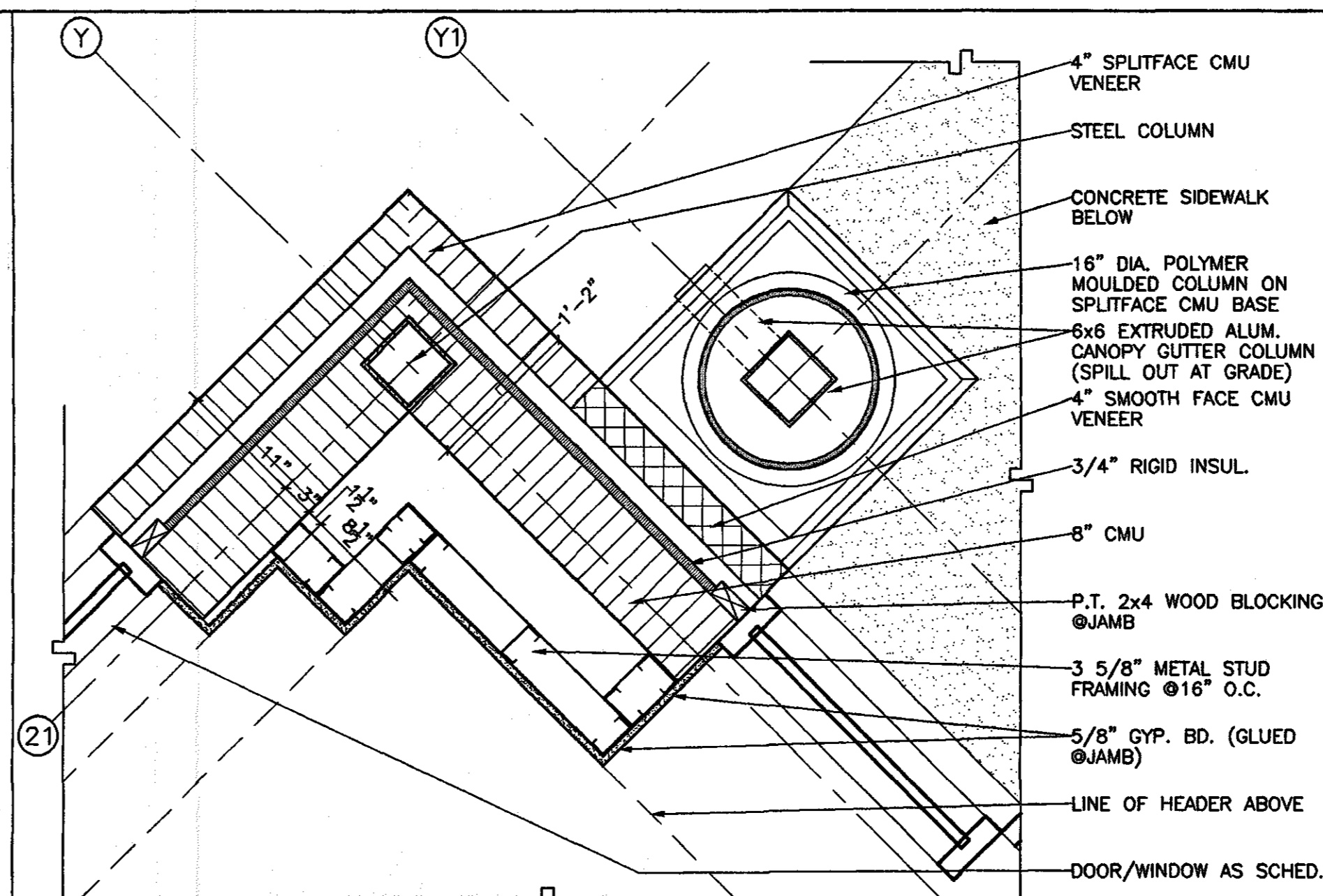




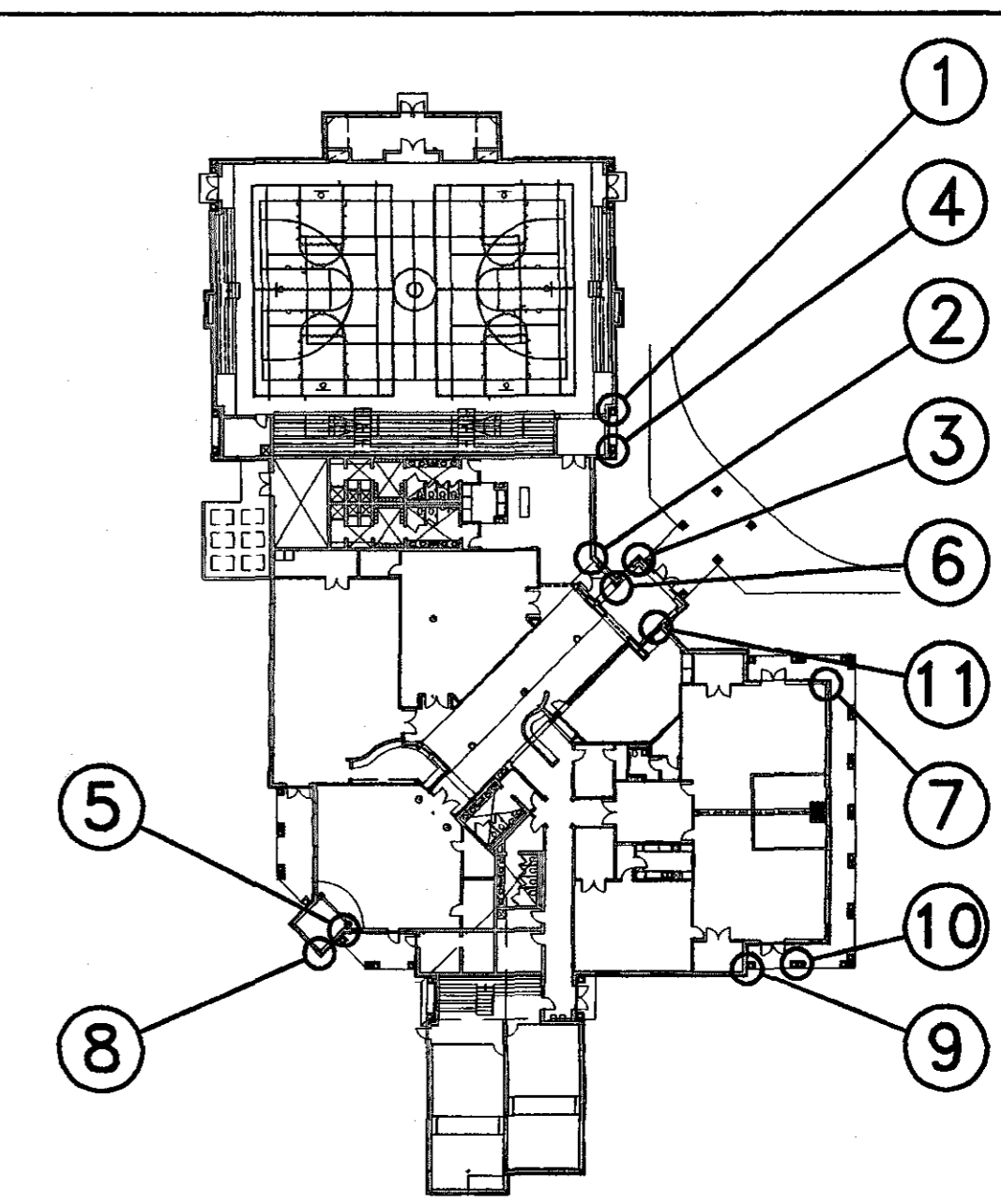
**1 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



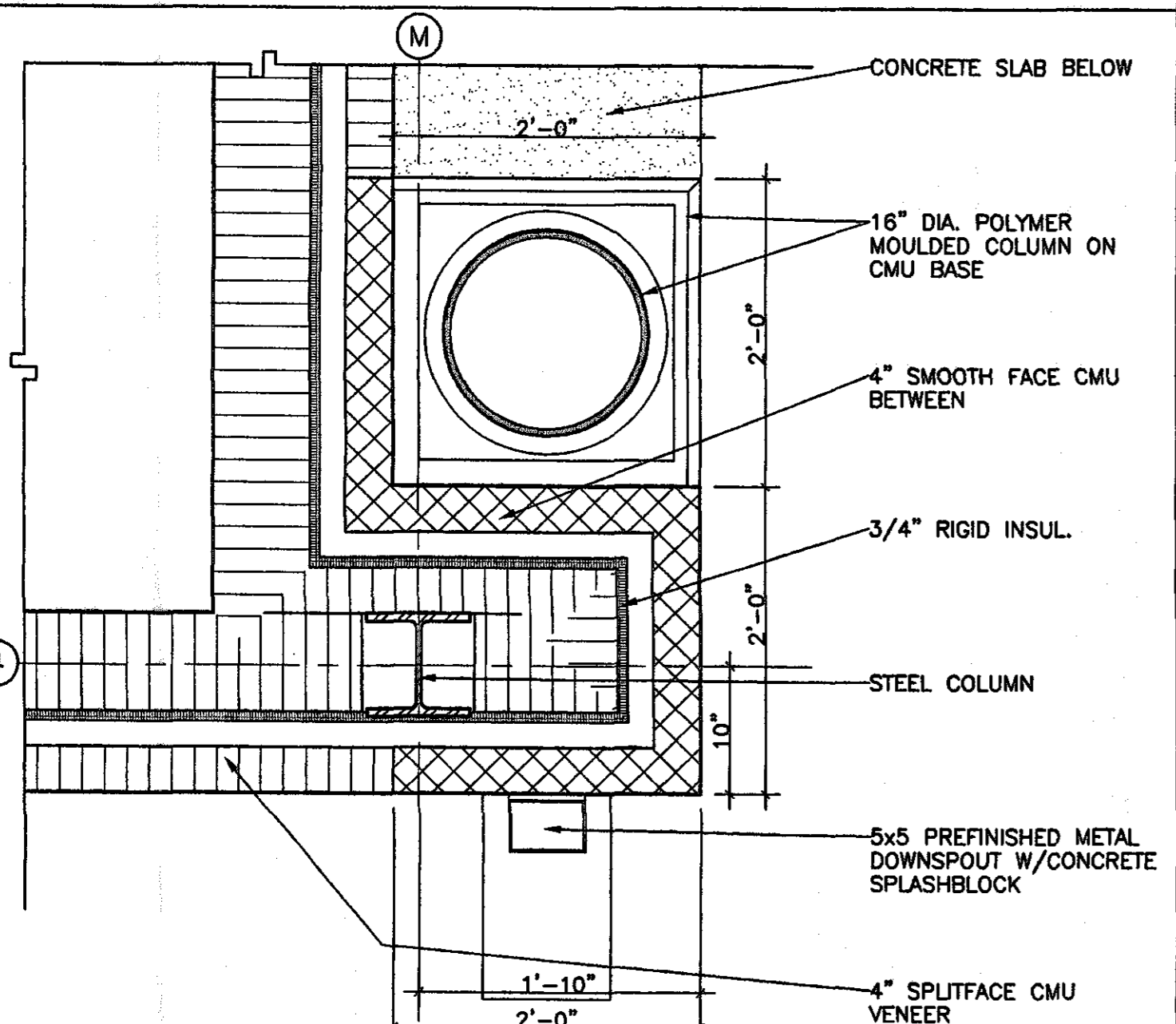
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A1.07 SCALE: 1" = 1'-0"



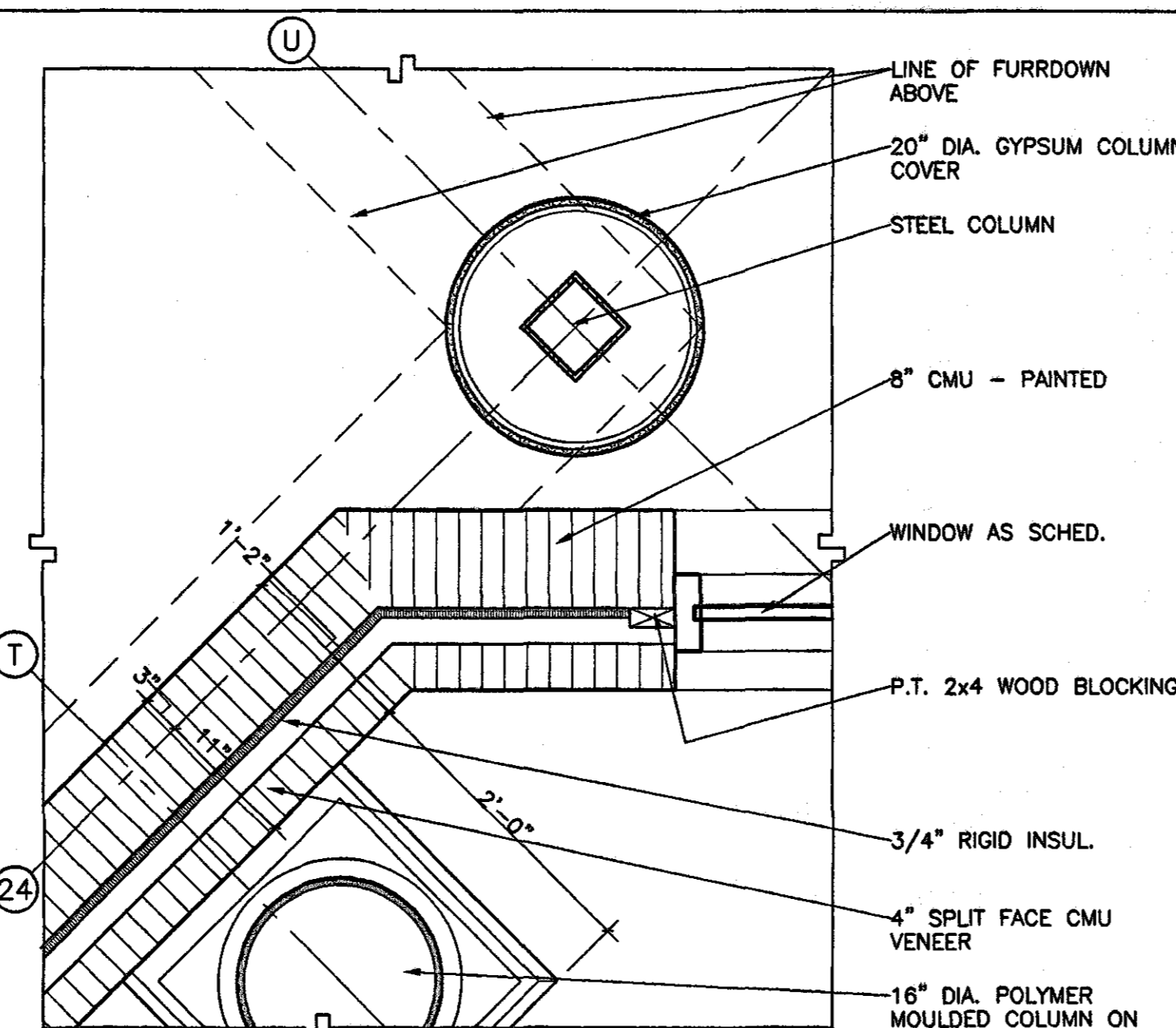
**3 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



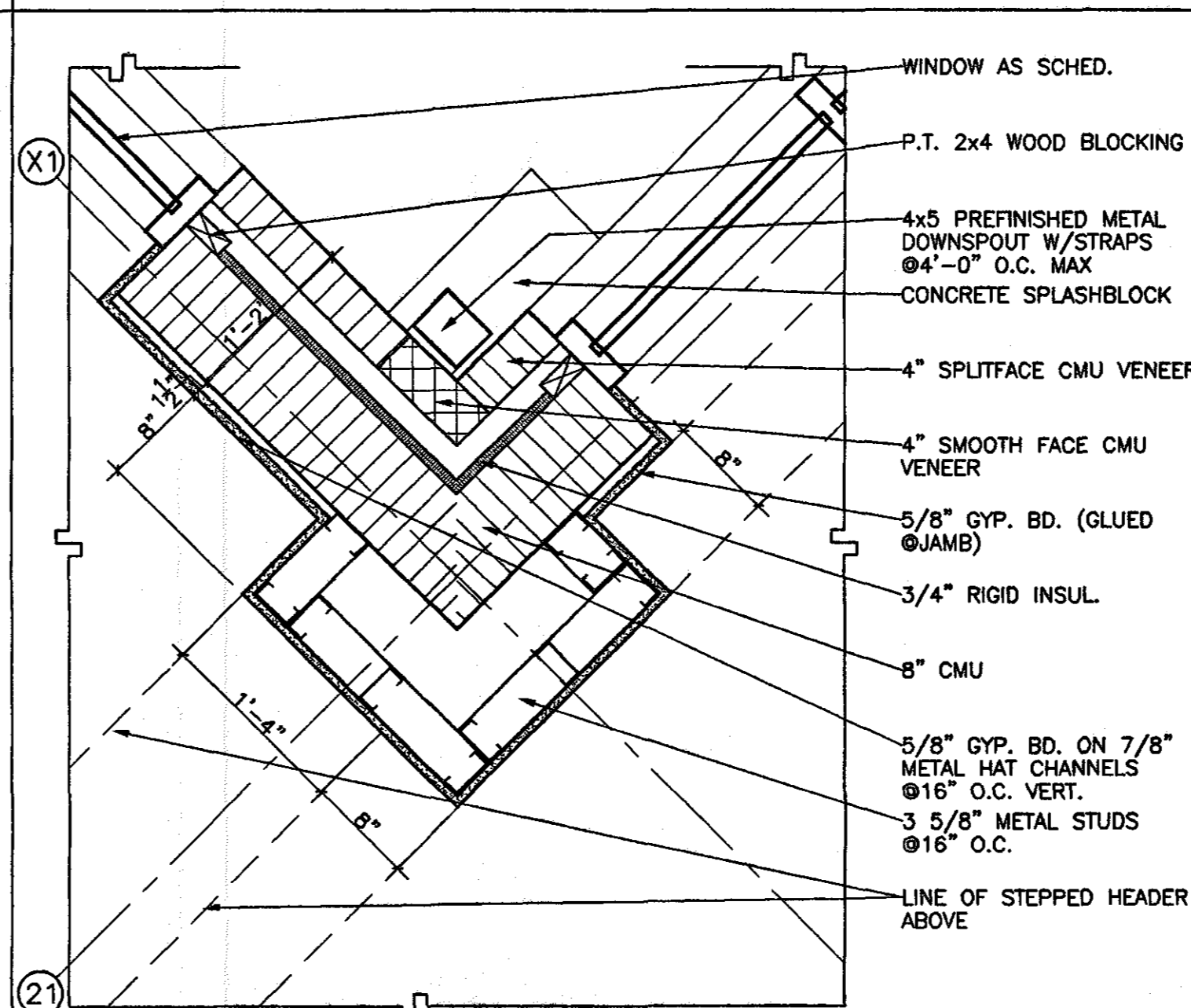
**KEY PLAN**  
SCALE: 1" = 50'-0"  
SCALE UP 50 SCALE DOWN .02



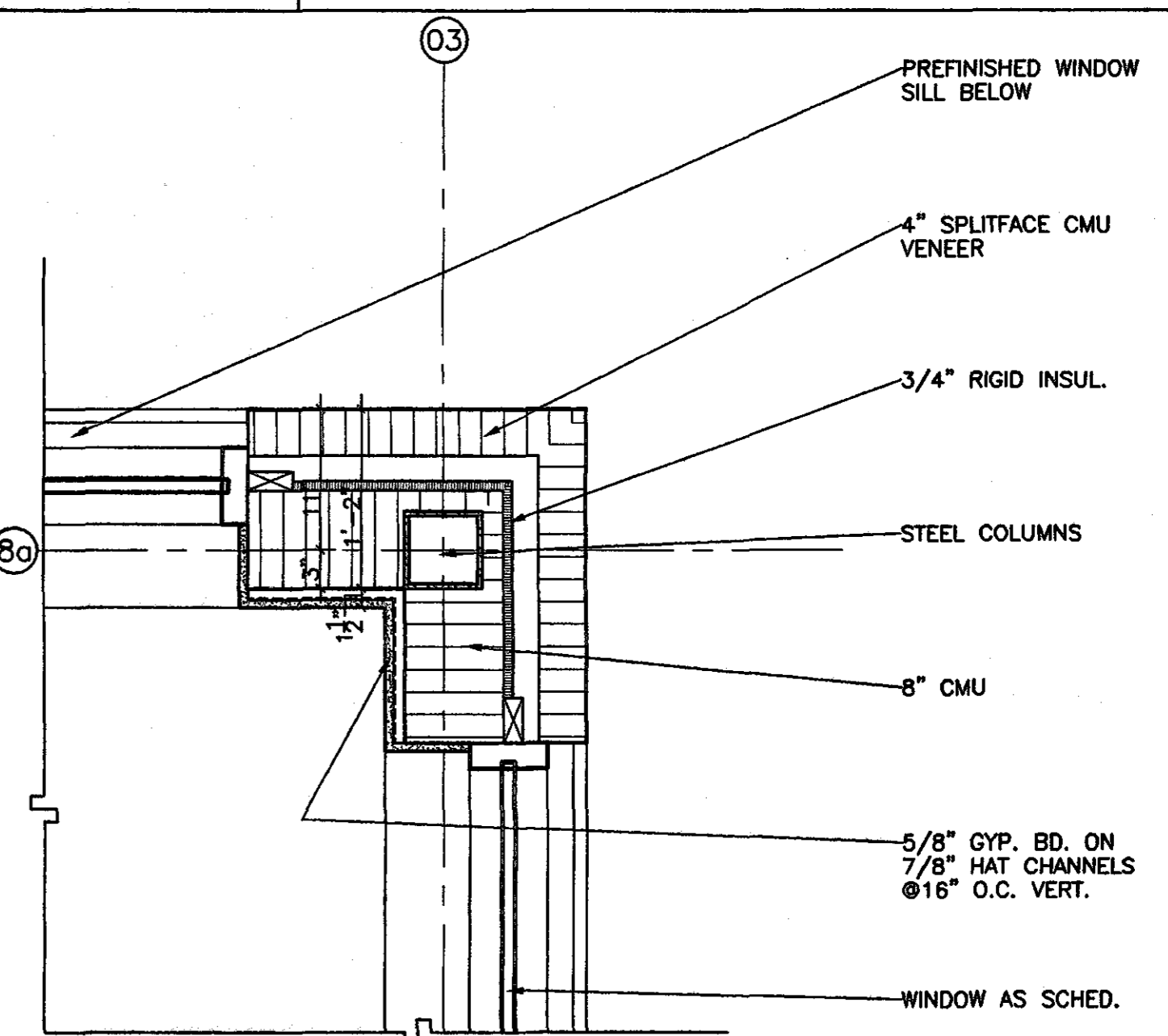
**4 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



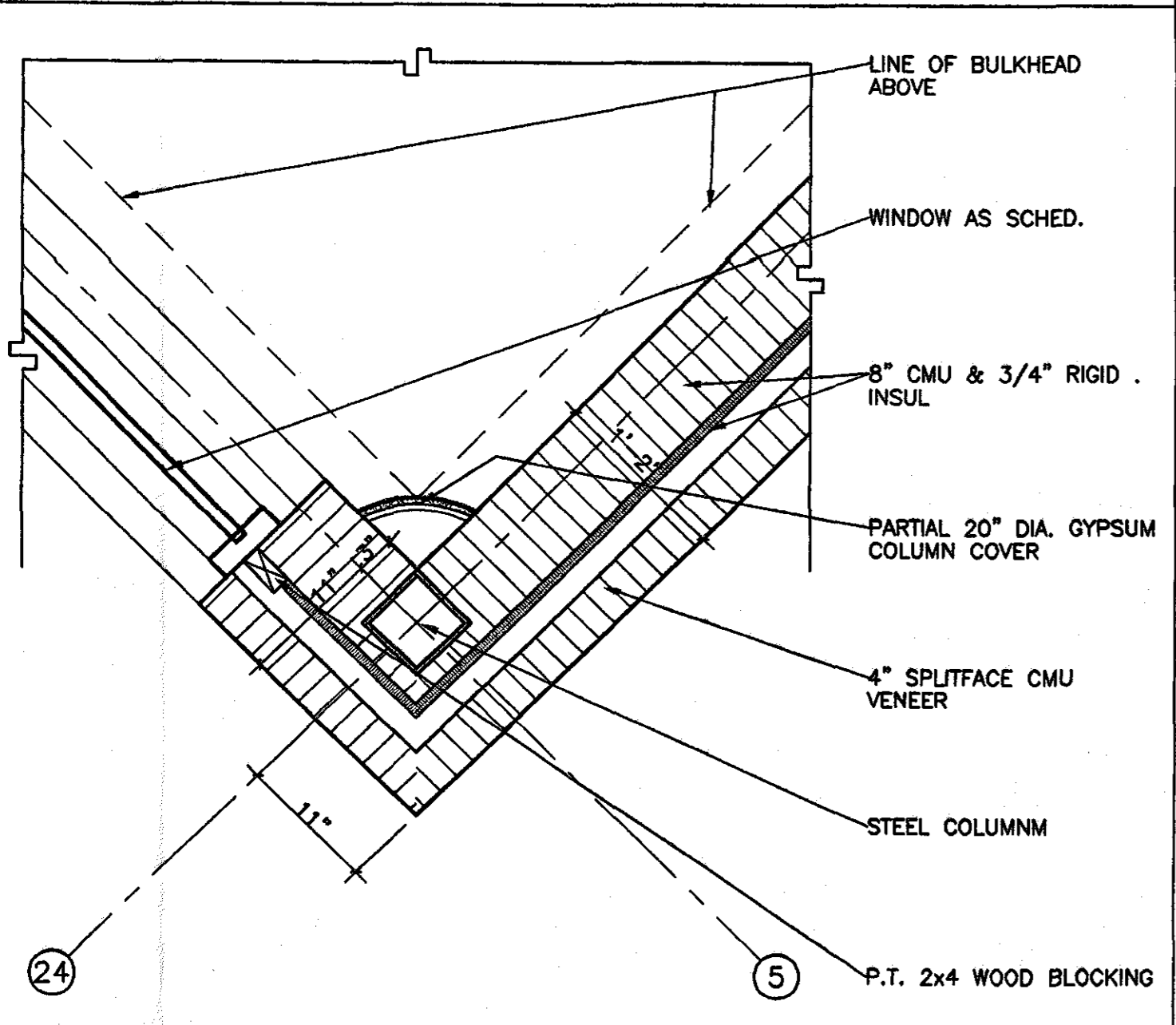
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A1.07 SCALE: 1" = 1'-0"



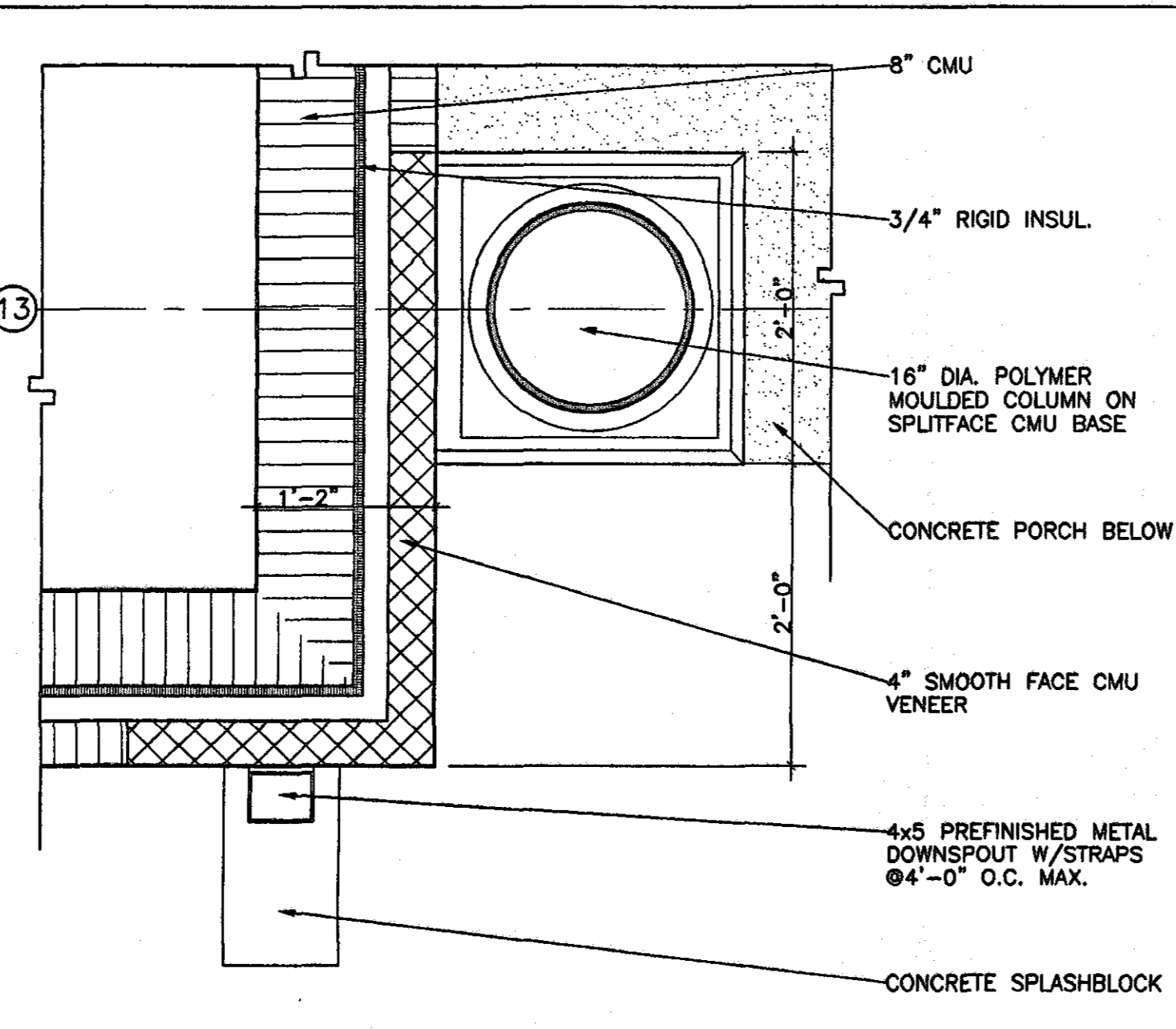
**6 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



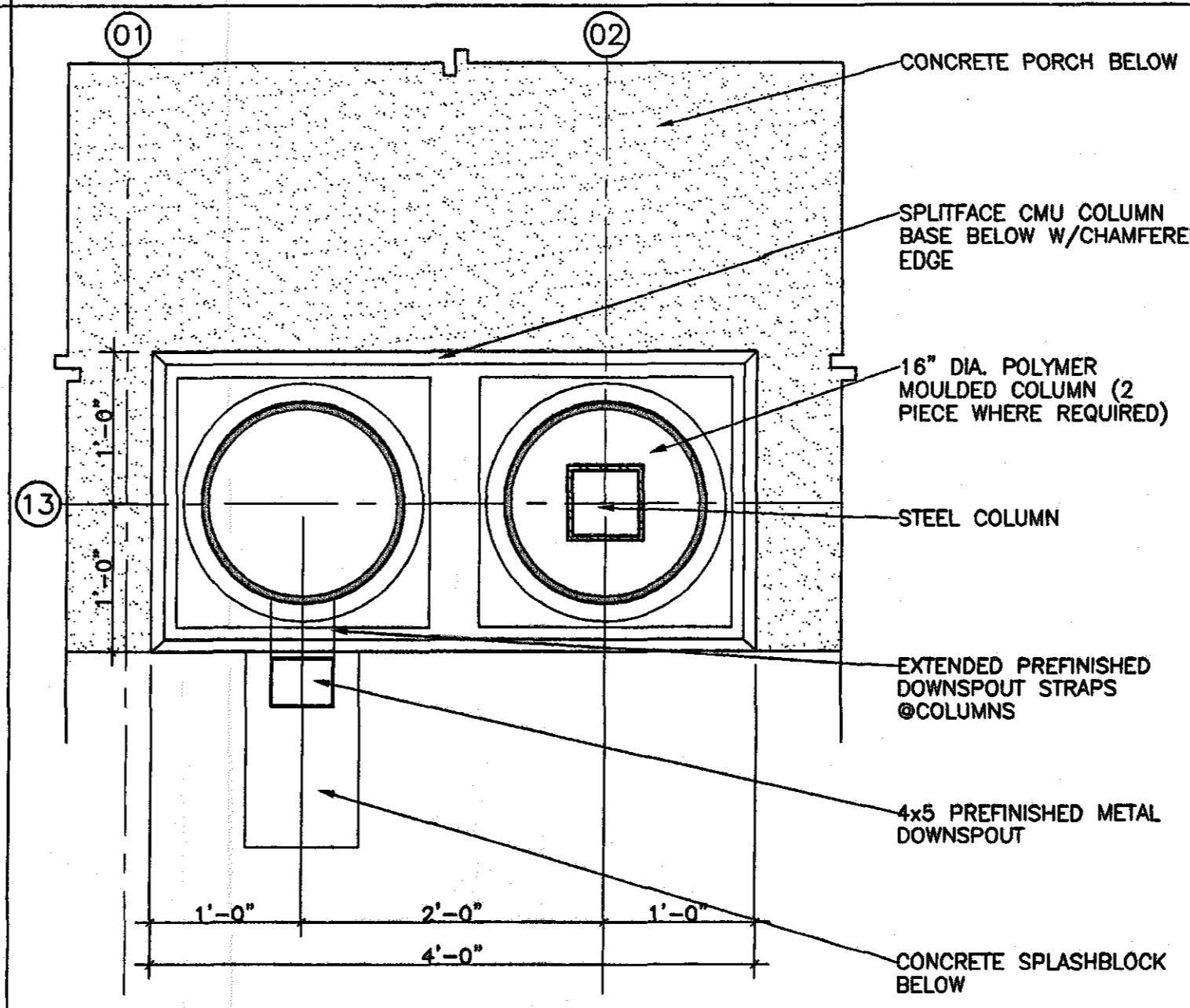
**7 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



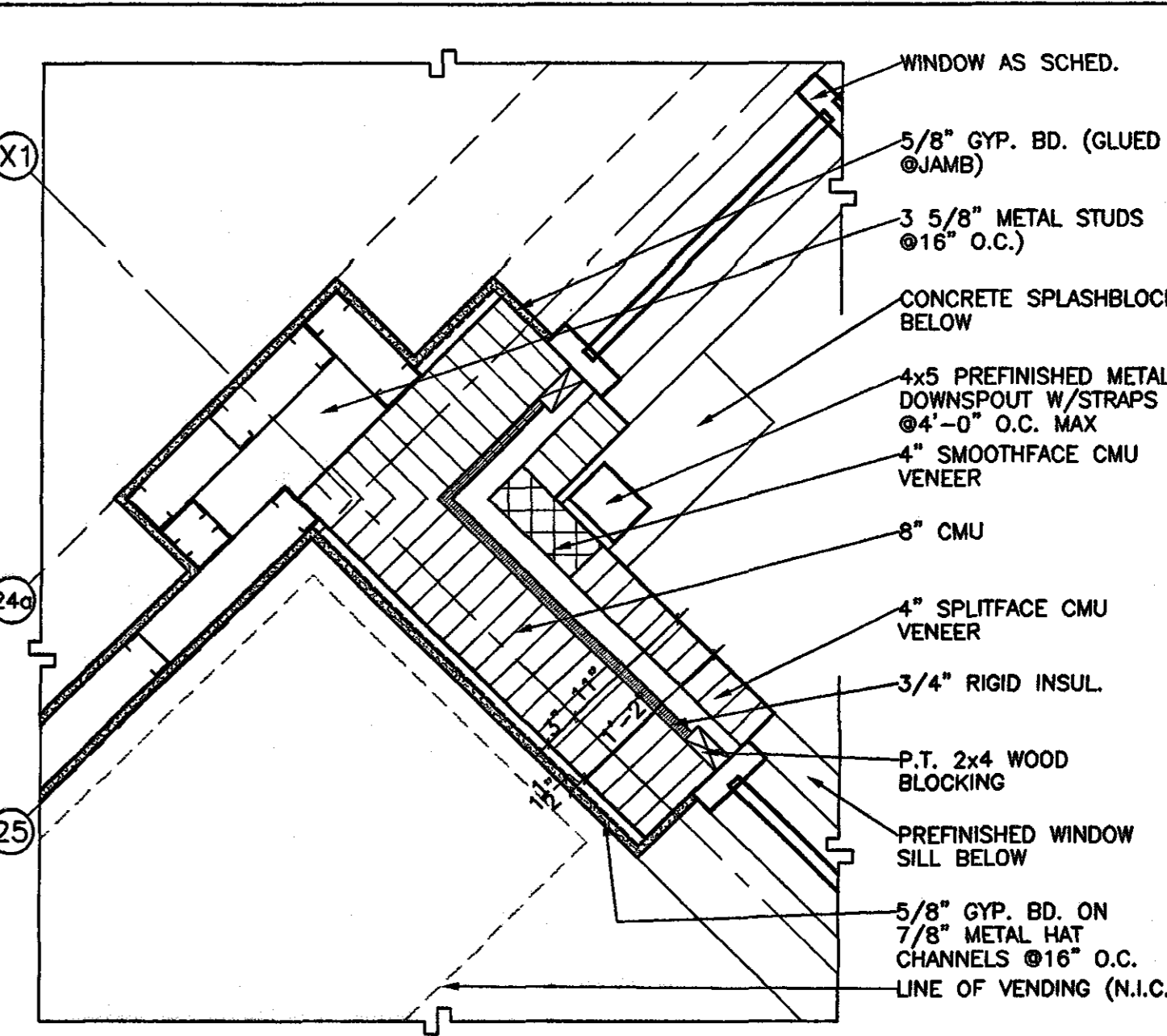
**8 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



**9 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



**10 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"



**11 PLAN DETAIL**  
A1.07 SCALE: 1" = 1'-0"

**GOODWYN, MILLS & INC.**  
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
PLANNING  
125 Interstate Park Drive, P.O. Box 3905  
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1102 South 20th Street  
Birmingham, Alabama 35205  
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Fax: (205) 879-4483

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**MECH. & ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

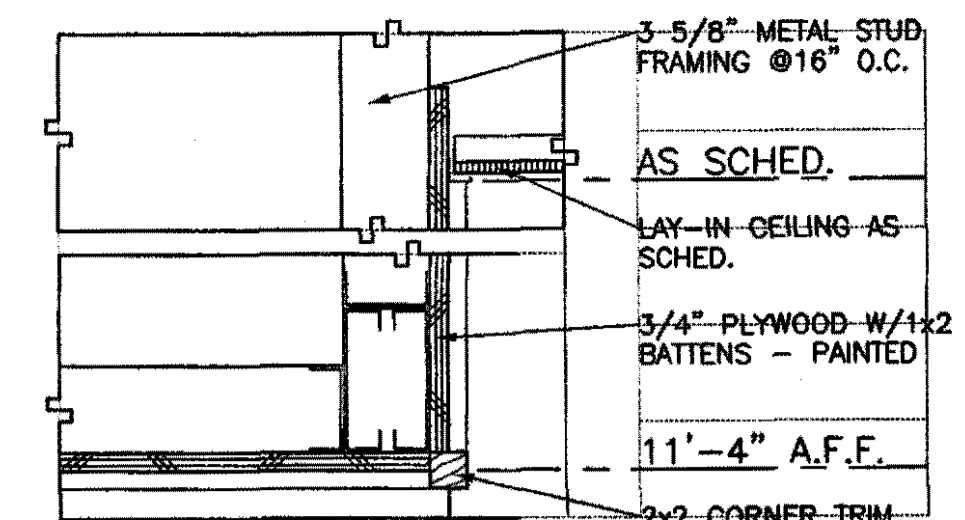
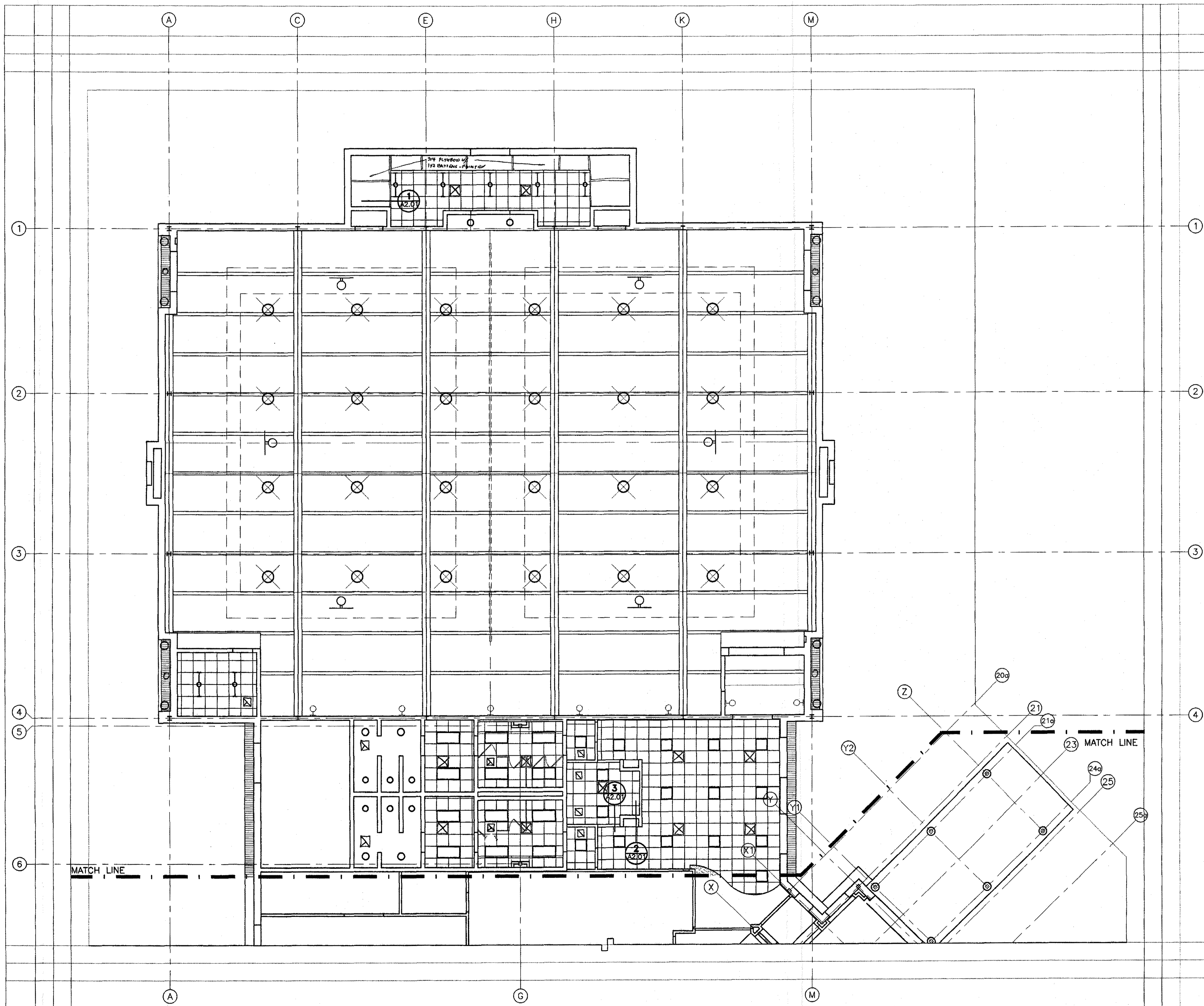
6-1-019  
STATE OF ALABAMA  
WILSON BELTFOY BRADY  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue date	
Design Development	08/10/01
FINAL	09/17/01

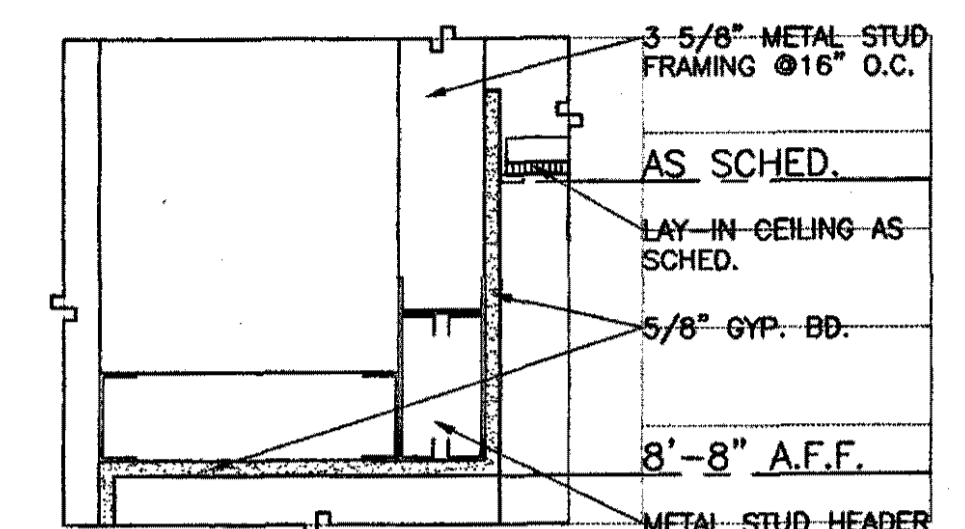
drawn by: CGB, CED  
**LARGE SCALE PLAN DETAILS**

50% SUBMITTAL  
**A1.07**  
sheet 00 of 00

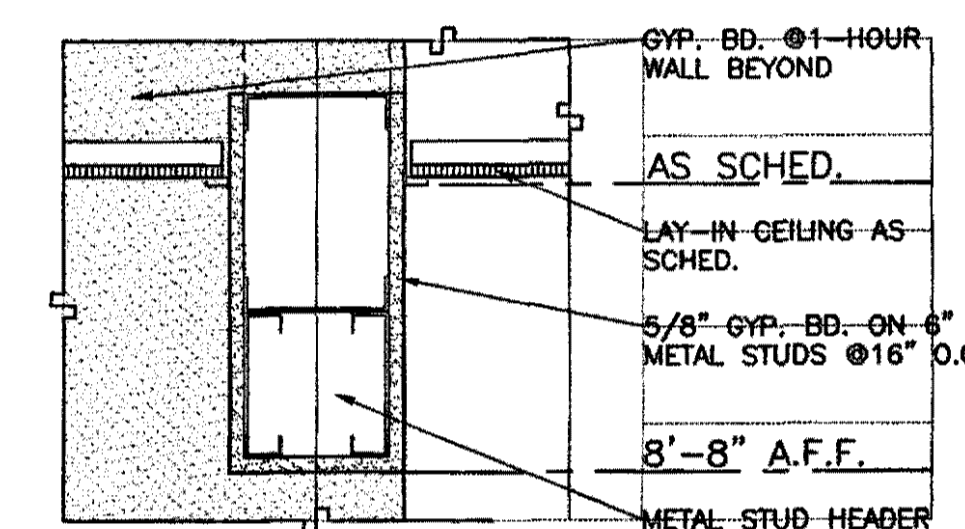
2001 Projects16-1-019 RD Orange Beach Rec Park\Construction dings\A1.07 Large Scale Plan Details.dwg Tue Sep 18 16:56:53 2001



**1 CEILING DETAIL**  
 A2.01 SCALE: 1/2" = 1'-0"  
 SC UP-12/SC DN-.0833333



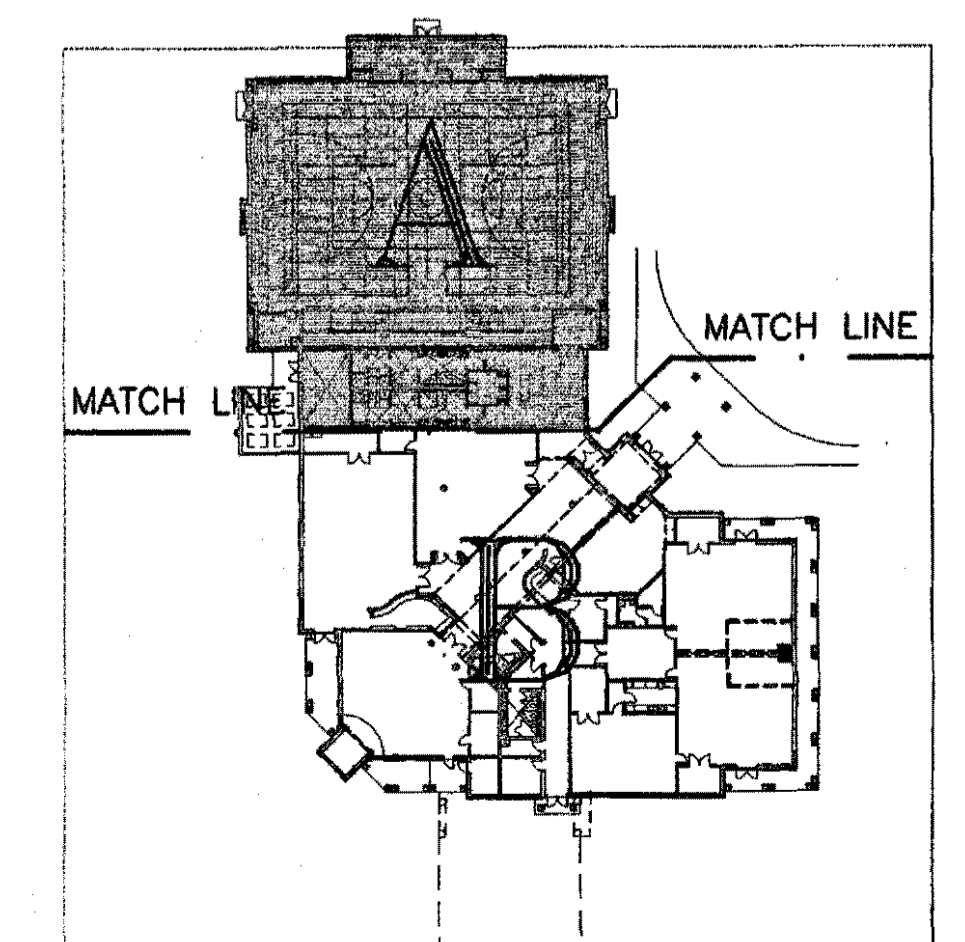
**2 CEILING DETAIL**  
 A2.01 SCALE: 1/2" = 1'-0"  
 SC UP-12/SC DN-.0833333



**3 CEILING DETAIL**  
 A2.01 SCALE: 1/2" = 1'-0"  
 SC UP-12/SC DN-.0833333

**CEILING PLAN LEGEND**

MATERIALS	
	2x2 LAY-IN TYPE - A & B
	2x2 VINYL GLAD LAY-IN TYPE - C
	GYP-SUM BOARD
	SUSPENDED METAL CEILING BOARD
	PREFINISHED SOFT (VENTED)
LIGHTING	
	2x4 LIGHT FIXTURE
	2x2 LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	ROUND RECESSED FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	EXIT LIGHT
	BRACKET MOUNTED LIGHT FIXTURE
MECHANICAL	
	SUPPLY GRILLE
	RETURN AIR GRILLE
	EXHAUST FAN



**KEY PLAN**  
 SCALE: 1" = 60'-0"  
 SCALE UP 7.5 SCALE DOWN .13333

**REFLECTED CEILING PLAN (PART - A)**  
 SCALE: 1/8" = 1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
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 ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 126 Interstate Park Drive, P.O. Box 3805  
 Montgomery, Alabama 36109  
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 Fax: (334) 272-1888  
 1102 South 25<sup>th</sup> Street  
 Birmingham, Alabama 35205  
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**MECH. & ELEC. ENGINEER**  
 Borden & Morris Consulting Engineers, Inc.  
 905 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 289-0329

**A NEW RECREATION COMPLEX**  
 FOR THE  
 City of **Orange Beach**  
 alabama

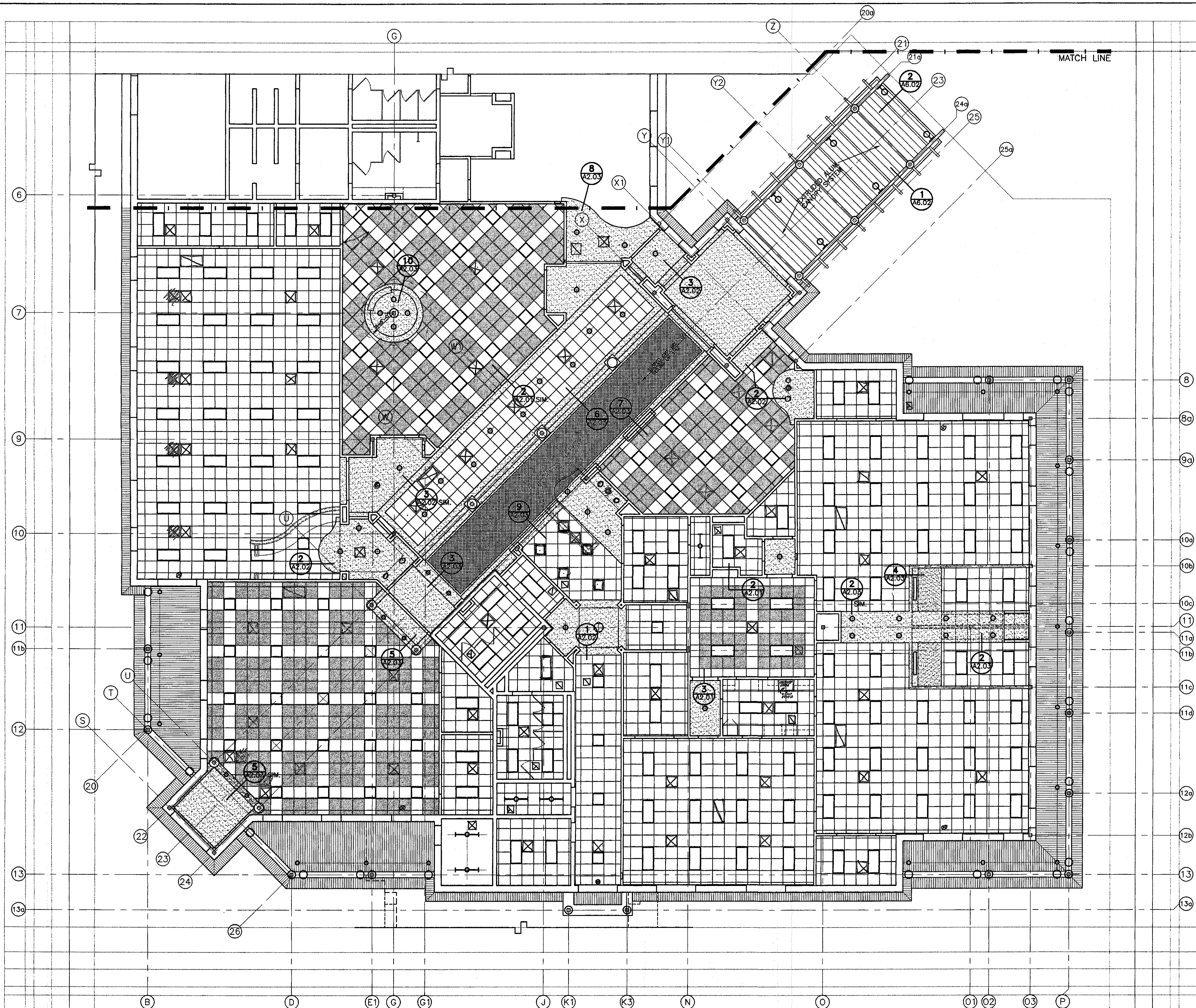
**6-1-019**  
 STATE OF ALABAMA  
 WILSON ELDTOT WILSON  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

issue	date
Design Development	08/10/01
FINAL	08/17/01

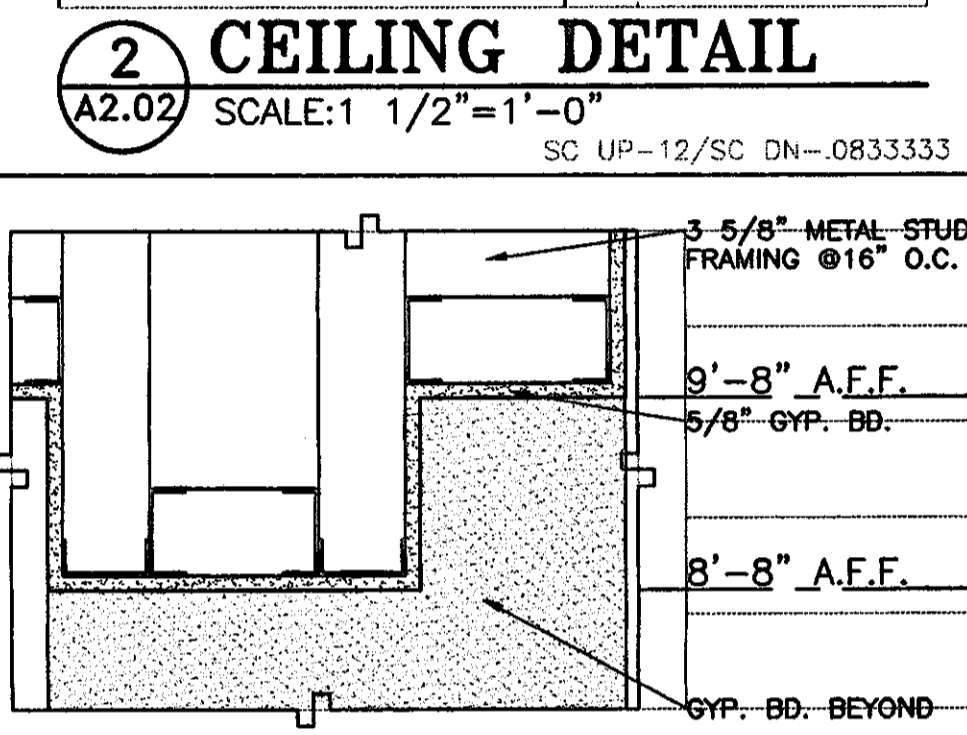
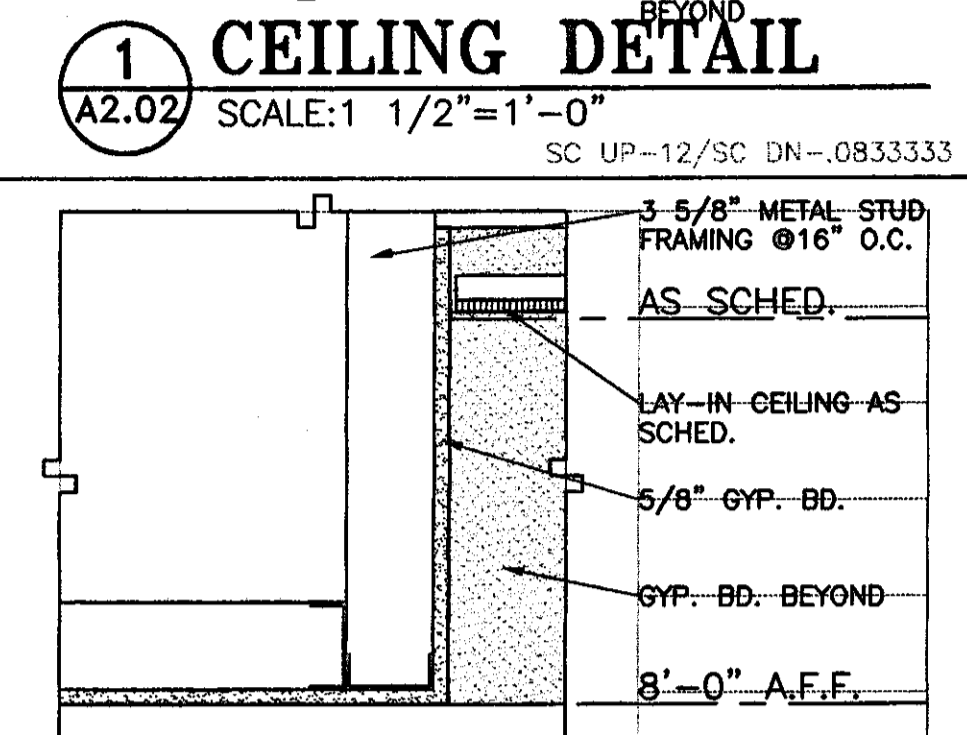
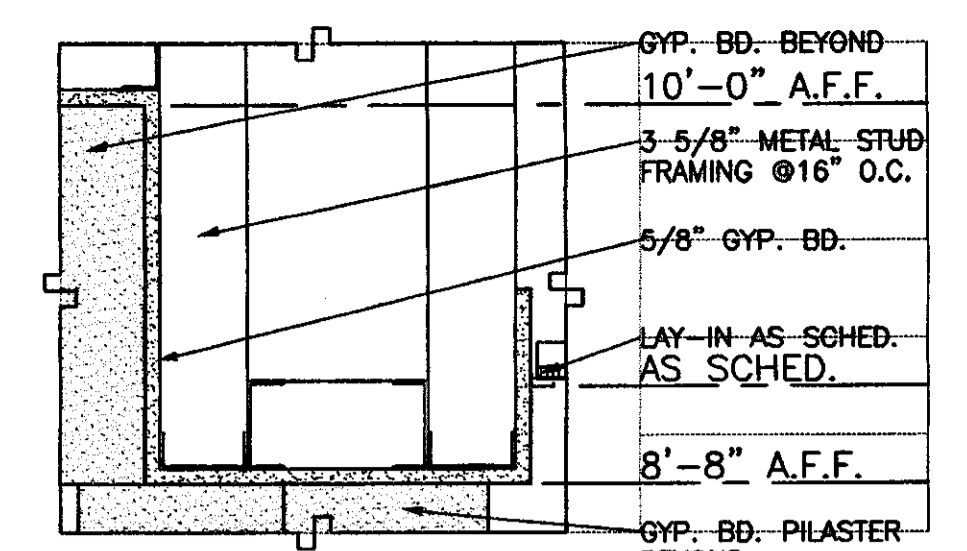
drawn by: OGB, CEO  
**BASE BID REFLECTED CEILING PLAN PART-A**

**95% SUBMITTAL**  
**A2.01**  
 sheet 00 of 00

\2001: Project\6-1-019 R00 Orange Beach Rec Park\Arch\Construction dgs\A2.01 Base Reflected Ceiling Plan Part A.dwg Fri Sep 14 04:23:13 2001

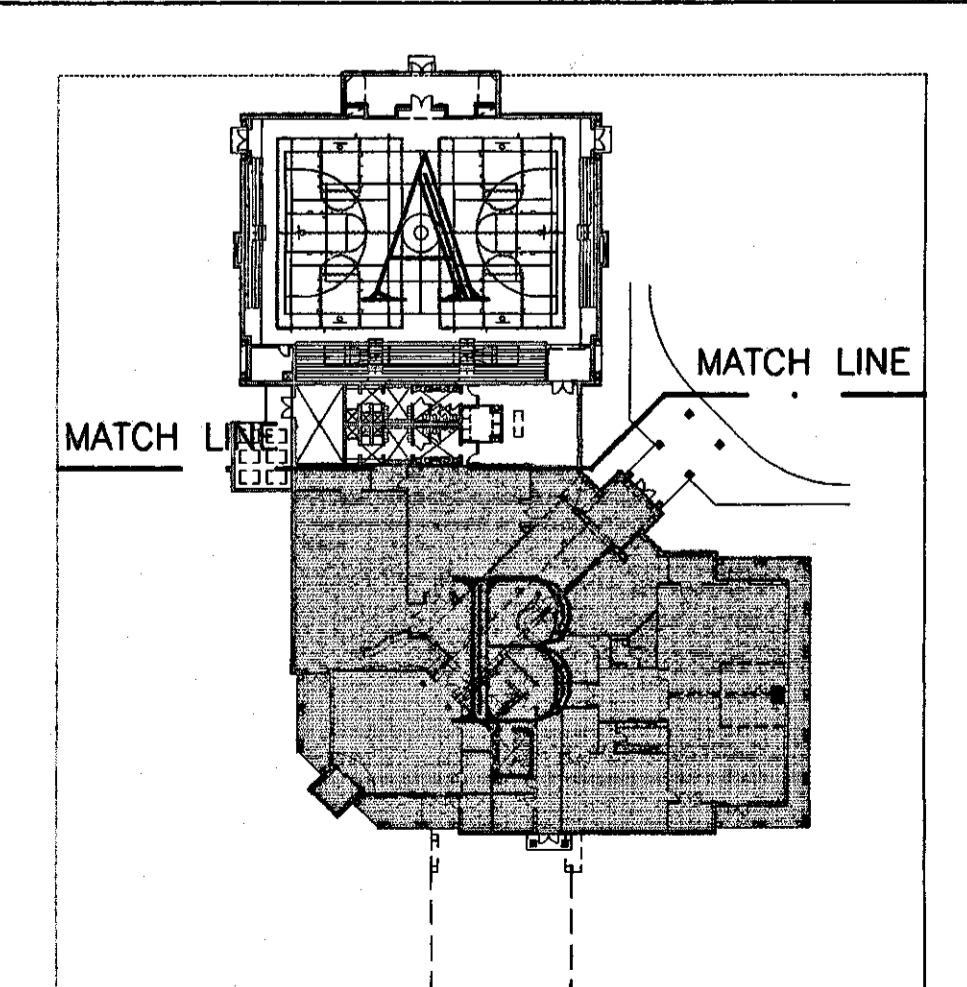


**REFLECTED CEILING PLAN (PART - B)**  
 SCALE: 1/8" = 1'-0"



**CEILING PLAN LEGEND**

MATERIALS	
A	2x2 LAY-IN TYPE - A & B
B	2x2 VINYL-CLAD LAY-IN TYPE - C
C	GYPSUM BOARD SUSPENDED METAL CEILING BELOW GYPSUM BOARD FINISHED SOFT (VENETIAN)
LIGHTING	
1	2x4 LIGHT FIXTURE
2	2x2 LIGHT FIXTURE
3	PENDANT LIGHT FIXTURE
4	ROUND-RECESSED FIXTURE
5	SURFACE MOUNTED LIGHT FIXTURE
6	EXIT LIGHT
7	BRACKET MOUNTED LIGHT FIXTURE
MECHANICAL	
8	SUPPLY GRILLE
9	RETURN AIR GRILLE
10	EXHAUST FAN



**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 125 Interstate Park Drive, P.O. Box 3695  
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 Fax: (334) 272-1546  
 1102 South 20<sup>th</sup> Street  
 Birmingham, Alabama 35205  
 Phone: (205) 879-4662  
 Fax: (205) 878-4445

**STRUCTURAL ENGINEER**  
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**MECH. & ELEC. ENGINEER**  
 Borden & Morris Consulting Engineers, Inc.  
 908 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 289-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

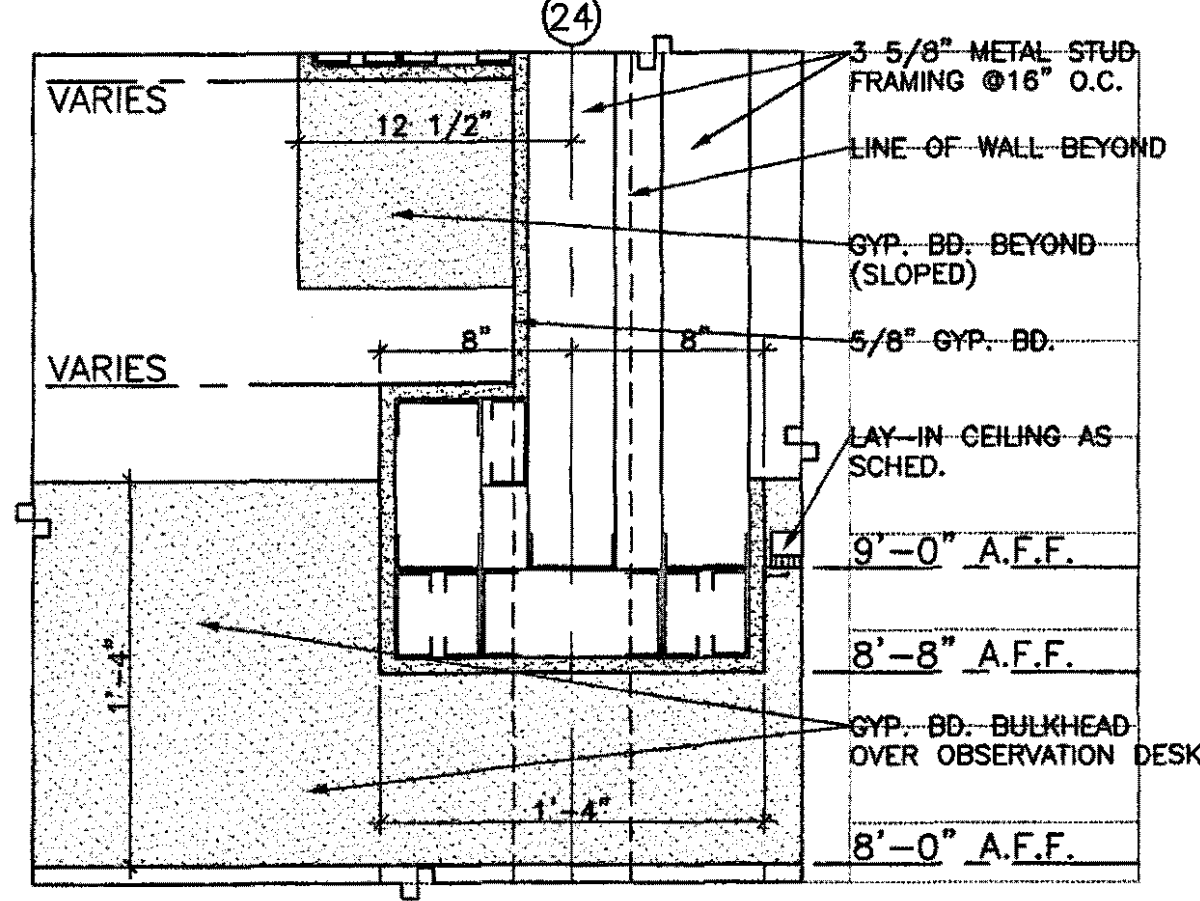
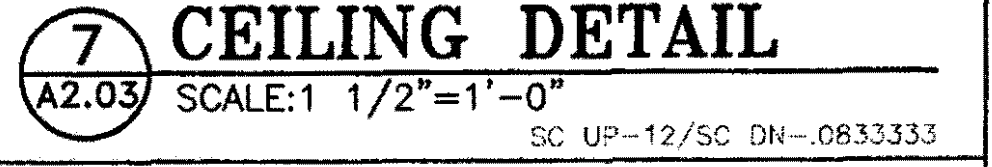
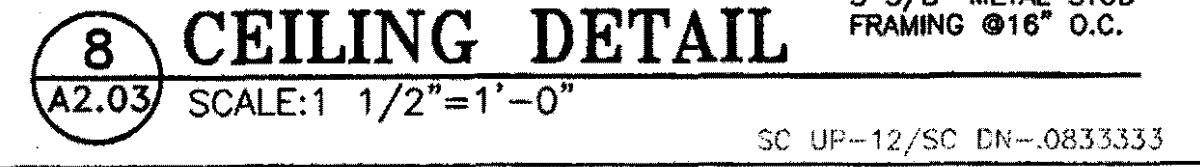
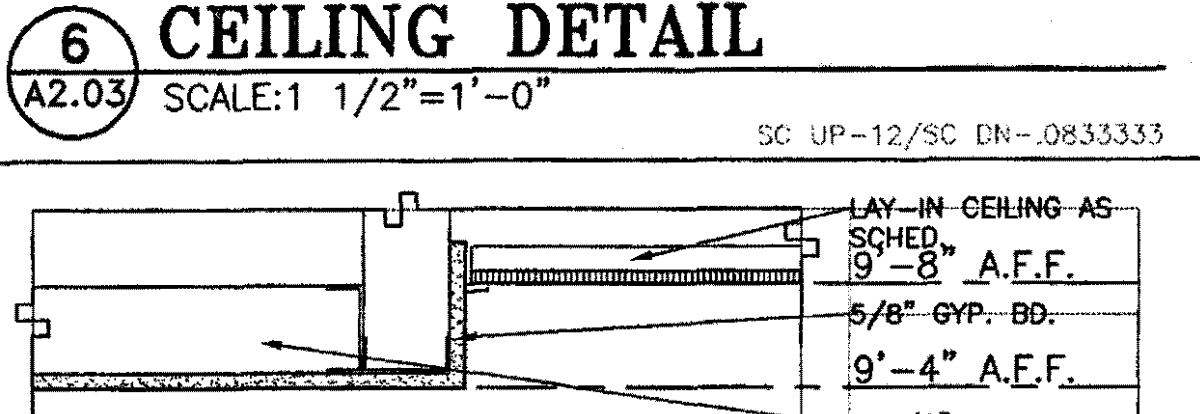
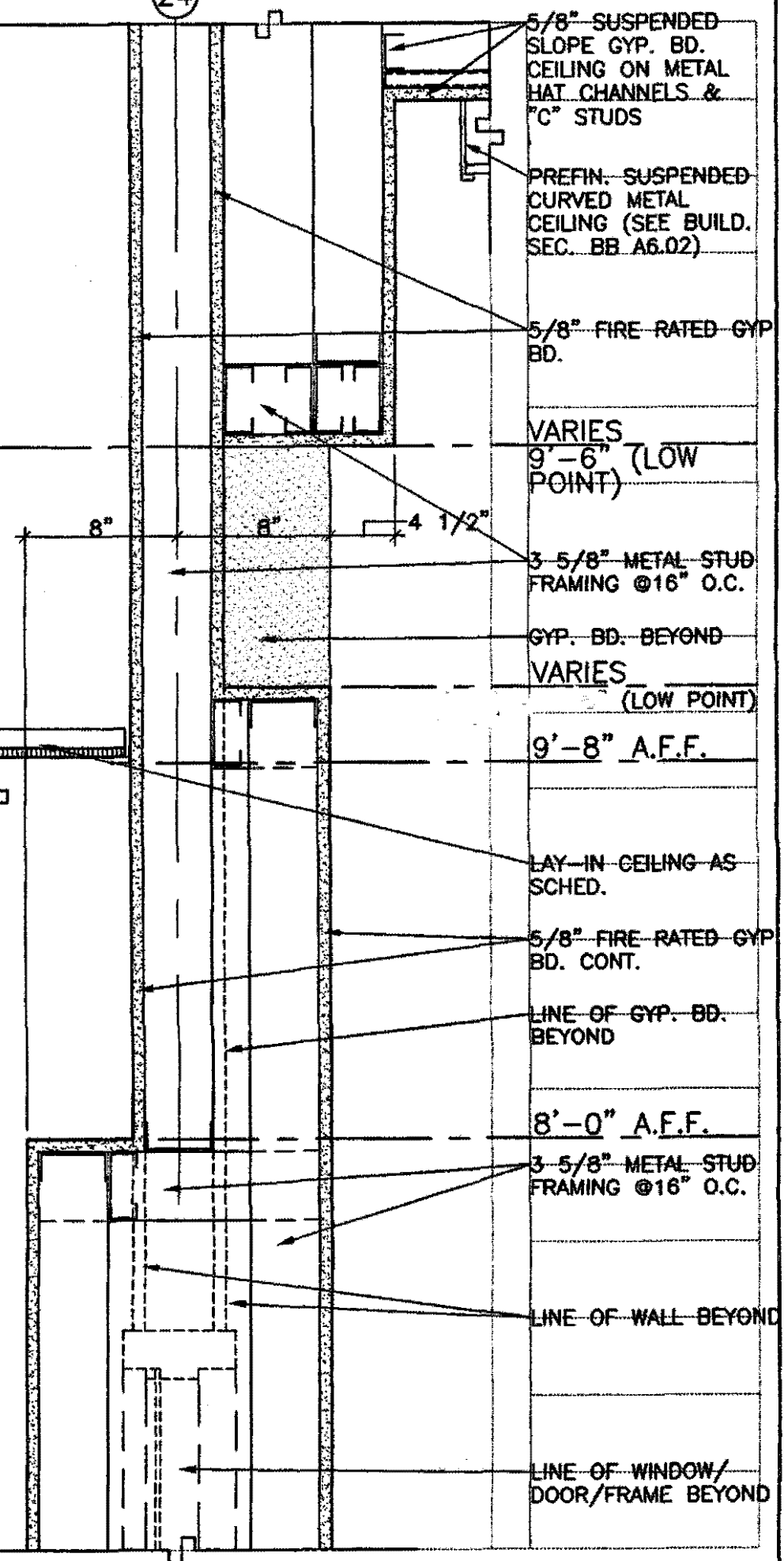
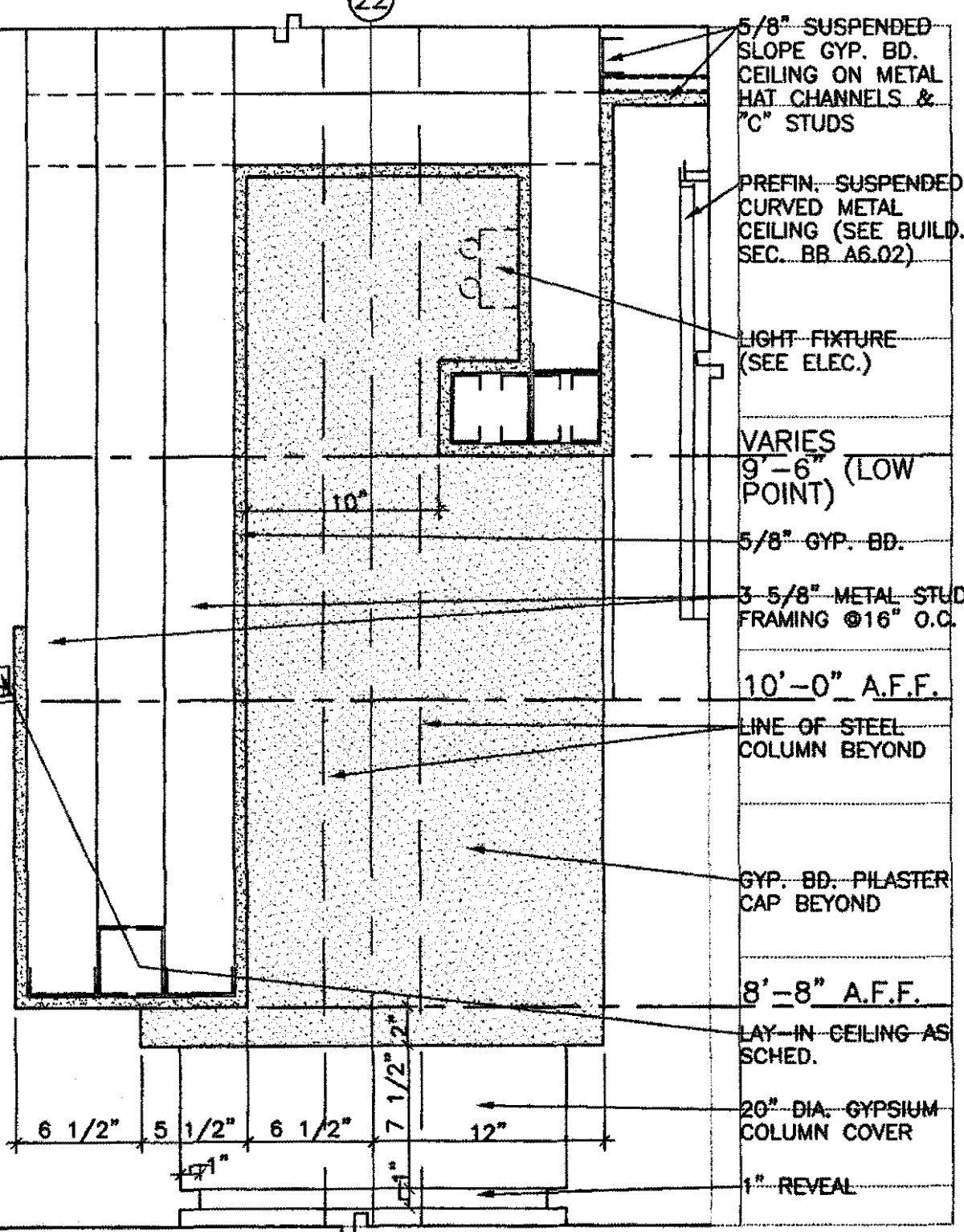
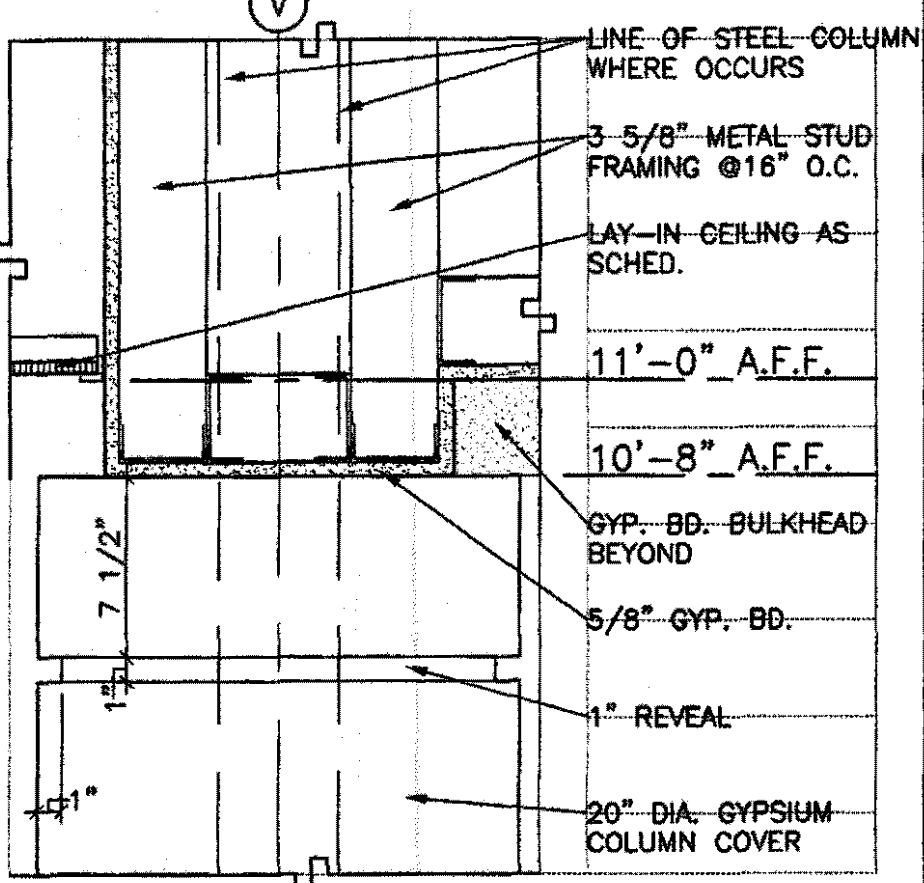
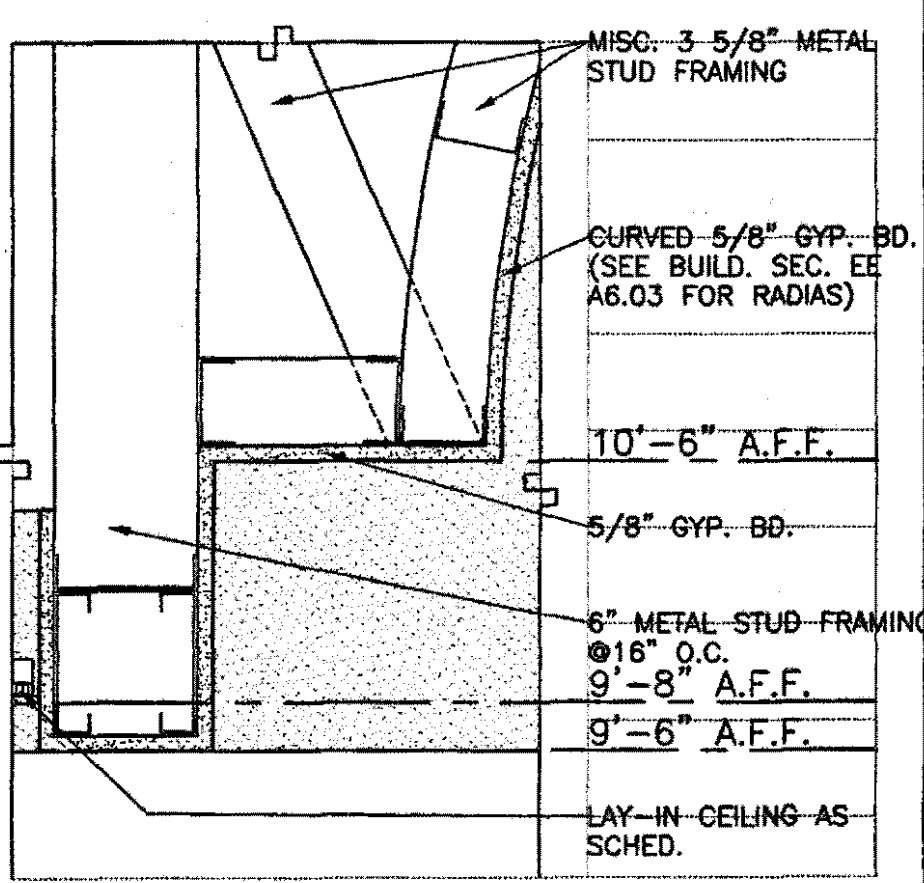
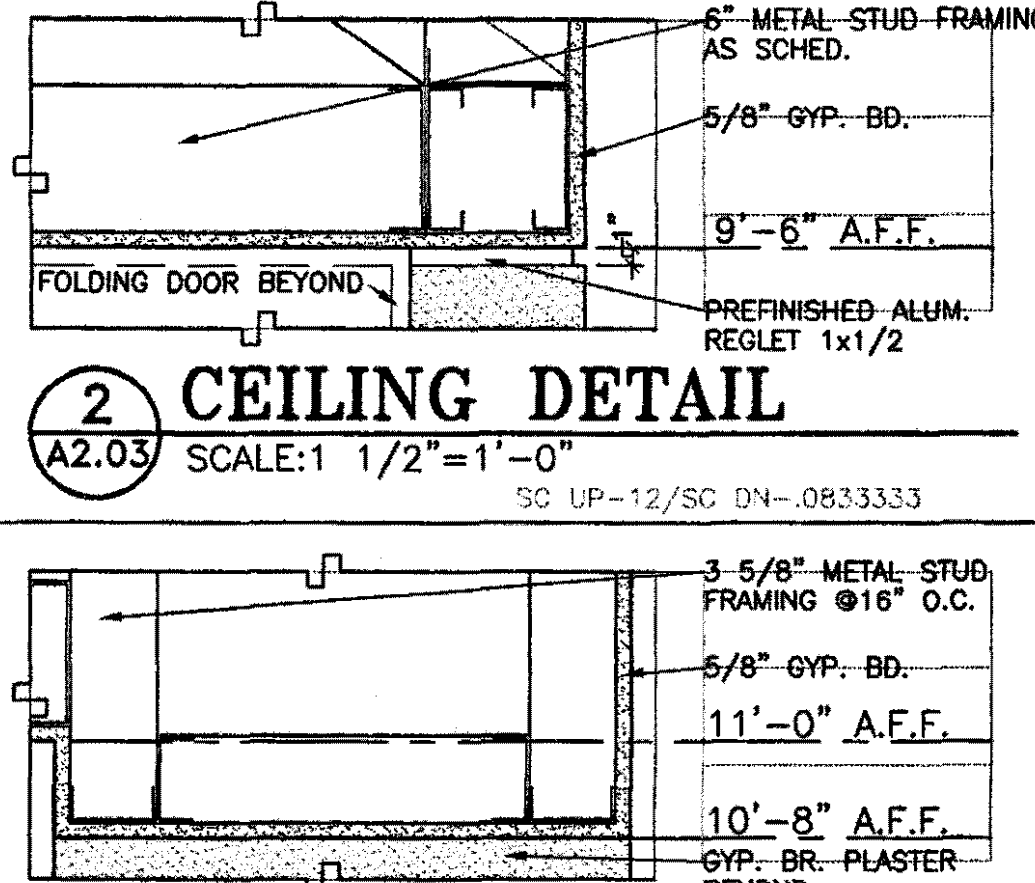
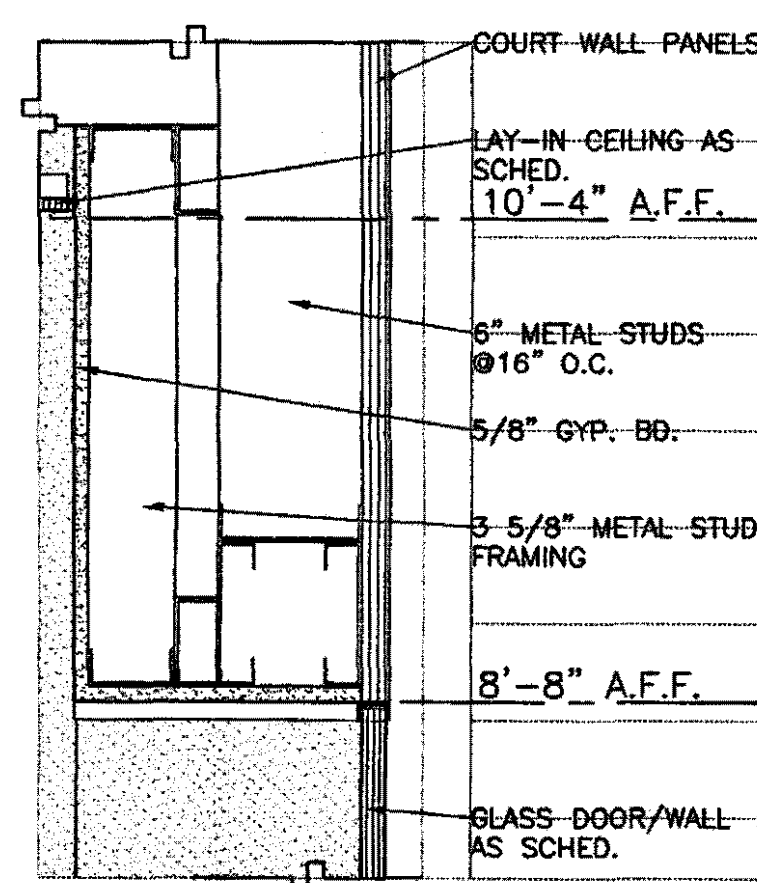
6-1-019  
 STATE OF ALABAMA  
 METERED ELLIOTT WEISS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	09/17/01

drawn by: OGB, CED  
**BASE BID REFLECTED CEILING PLAN PART-B**

95% SUBMITTAL  
**A2.02**  
 sheet 00 of 00

2001 Projects\6-1-019 R00 Orange Beach Rec Park\W\Construction dwgs\A2.02 Base Reflected Ceiling Plan Part B.dwg F1 Sep 14 05:03:40 2001



**CEILING PLAN LEGEND**

**MATERIALS**

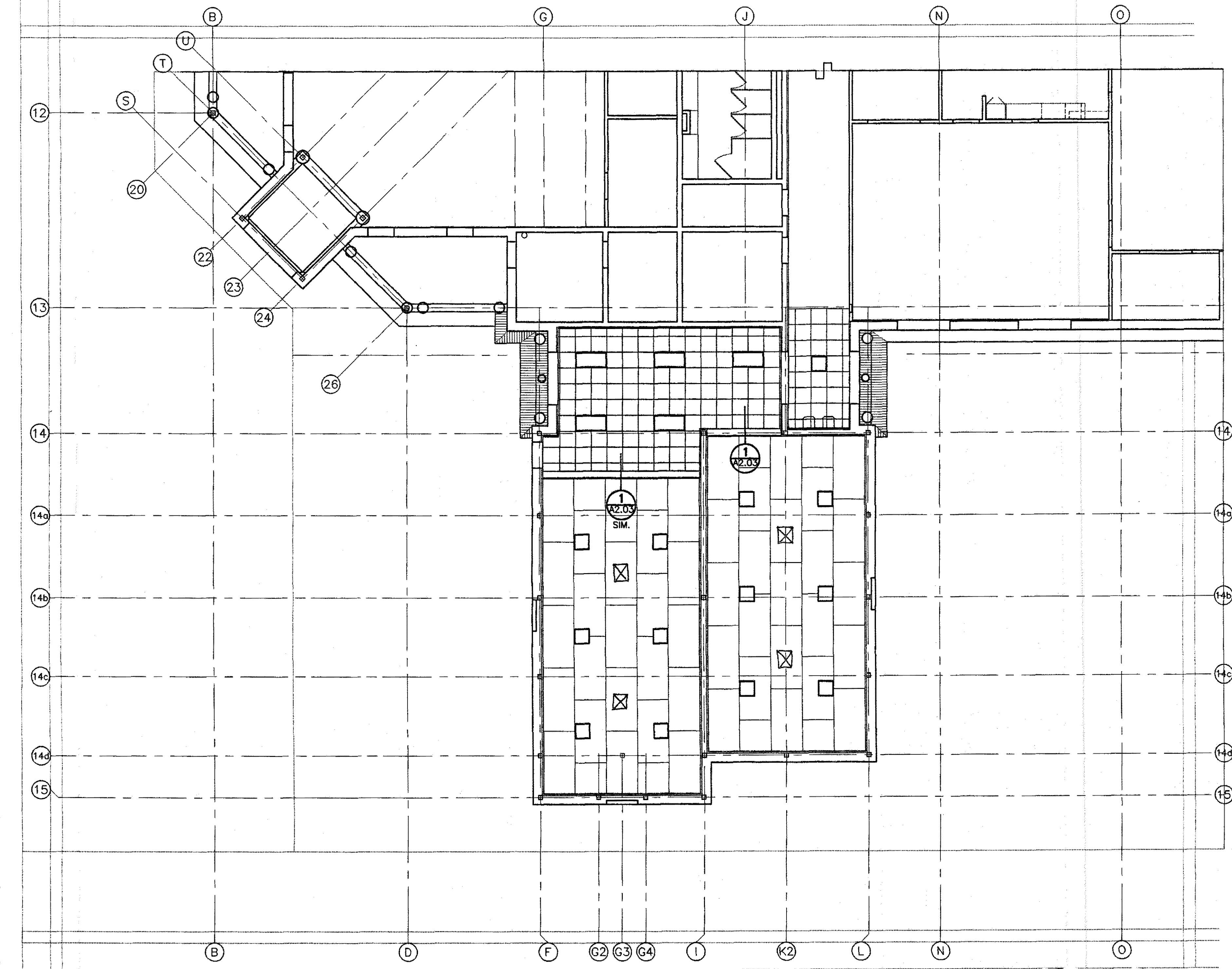
A	2x2 LAY-IN TYPE A & B	GYPSUM BOARD
B	2x2 VINYL-GLAD LAY-IN TYPE C	SUSPENDED METAL GYPSUM BOARD
C		PREFINISHED SOFT (VENTED)

**LIGHTING**

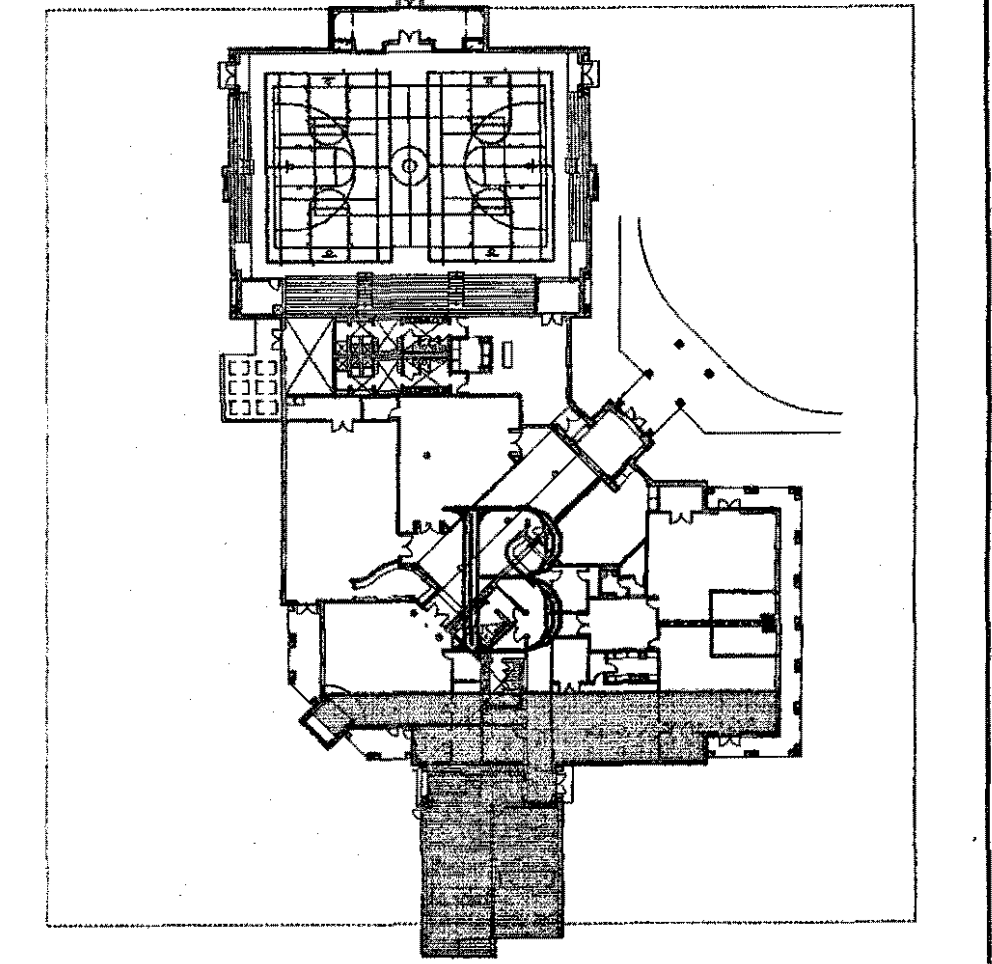
□	2x4 LIGHT FIXTURE	○	SURFACE MOUNTED LIGHT FIXTURE
□	2x2 LIGHT FIXTURE	○	EXIT LIGHT
○	PENDANT LIGHT FIXTURE		
○	ROUND RECESSED LIGHT FIXTURE		

**MECHANICAL**

□	SUPPLY GRILLE	□	EXHAUST FAN
□	RETURN AIR GRILLE		



**REFLECTED CEILING PLAN (PART - B)**  
SCALE: 1/8" = 1'-0"

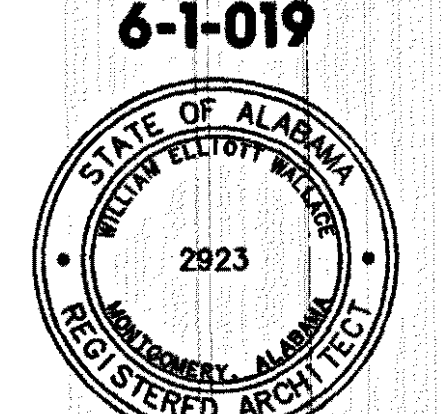


**KEY PLAN**  
SCALE: 1" = 60'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
128 Interstate Park Drive, P.O. Box 3805  
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1102 South 29<sup>th</sup> Street  
Birmingham, Alabama 35205  
Phone: (205) 875-4462 Fax: (205) 878-4493

**STRUCTURAL ENGINEER**  
Terry Grant, P.E.  
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**MECH. & ELEC. ENGINEER**  
Gordon & Morris Consulting Engineers, Inc.  
603 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**



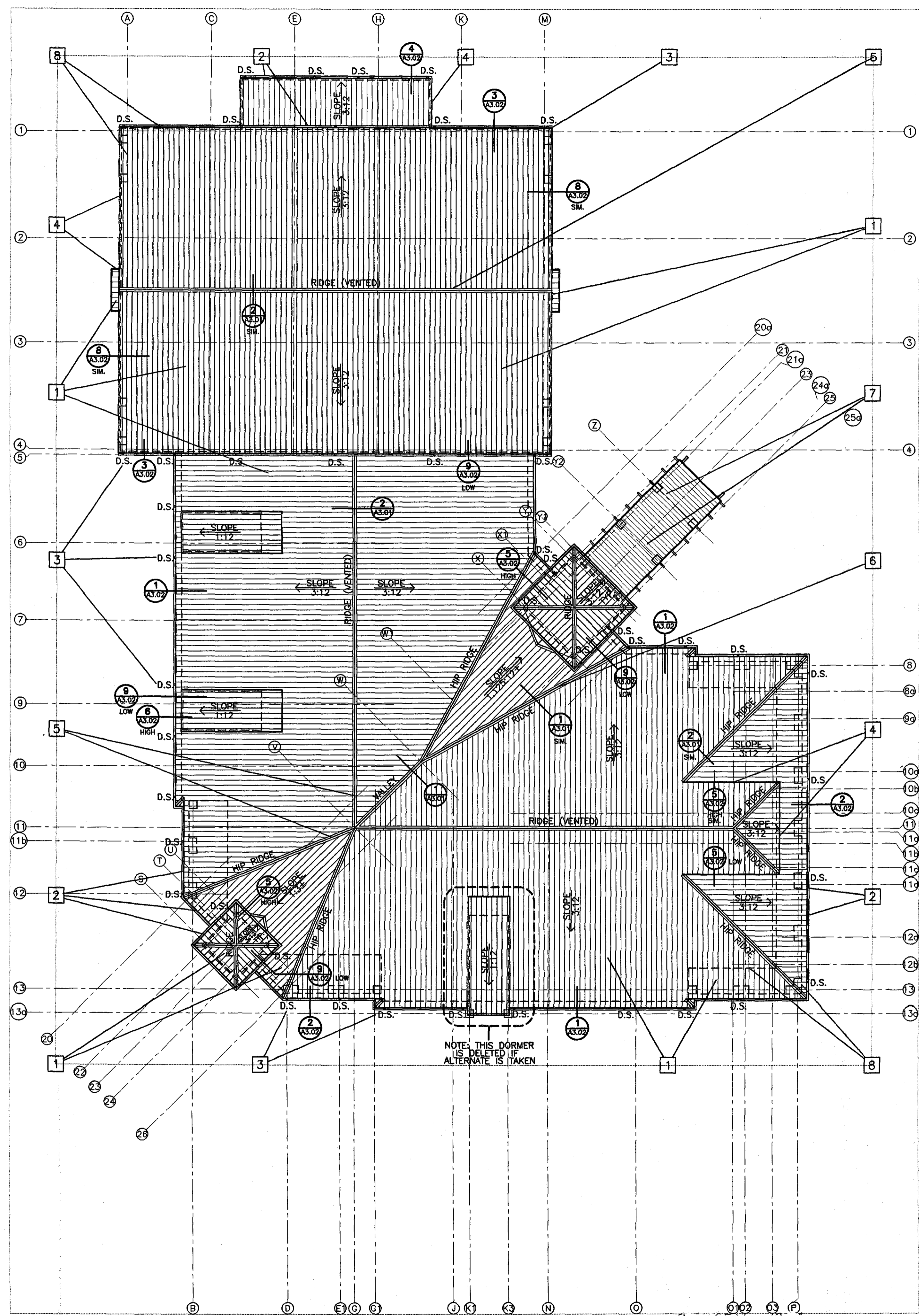
**Issue date**

Design Development	08/10/01
FINAL	09/17/01

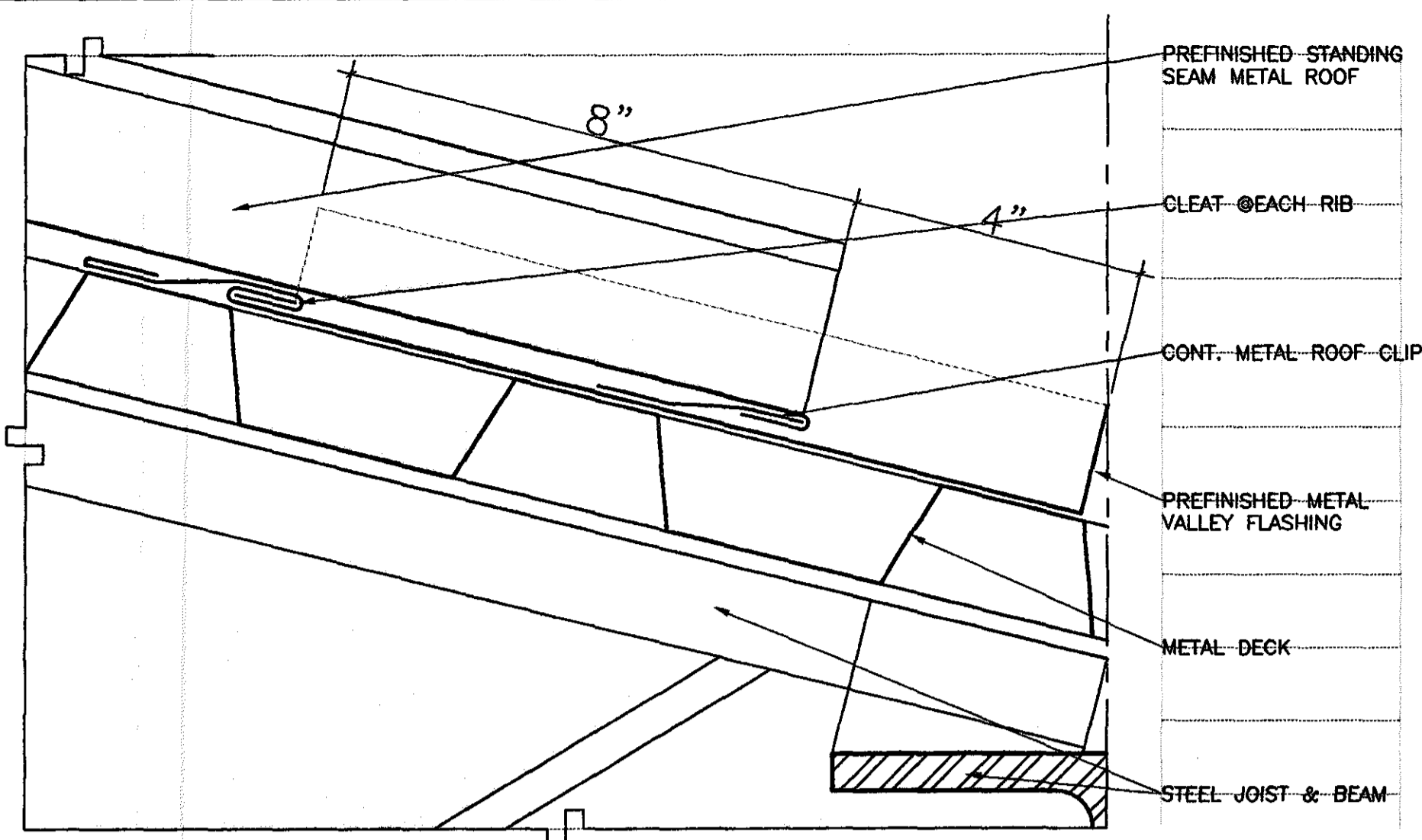
drawn by: OGB, CED  
**ALTERNATE REFLECTED CEILING PLAN**

95% SUBMITTAL  
**A2.03**  
sheet 00 of 00

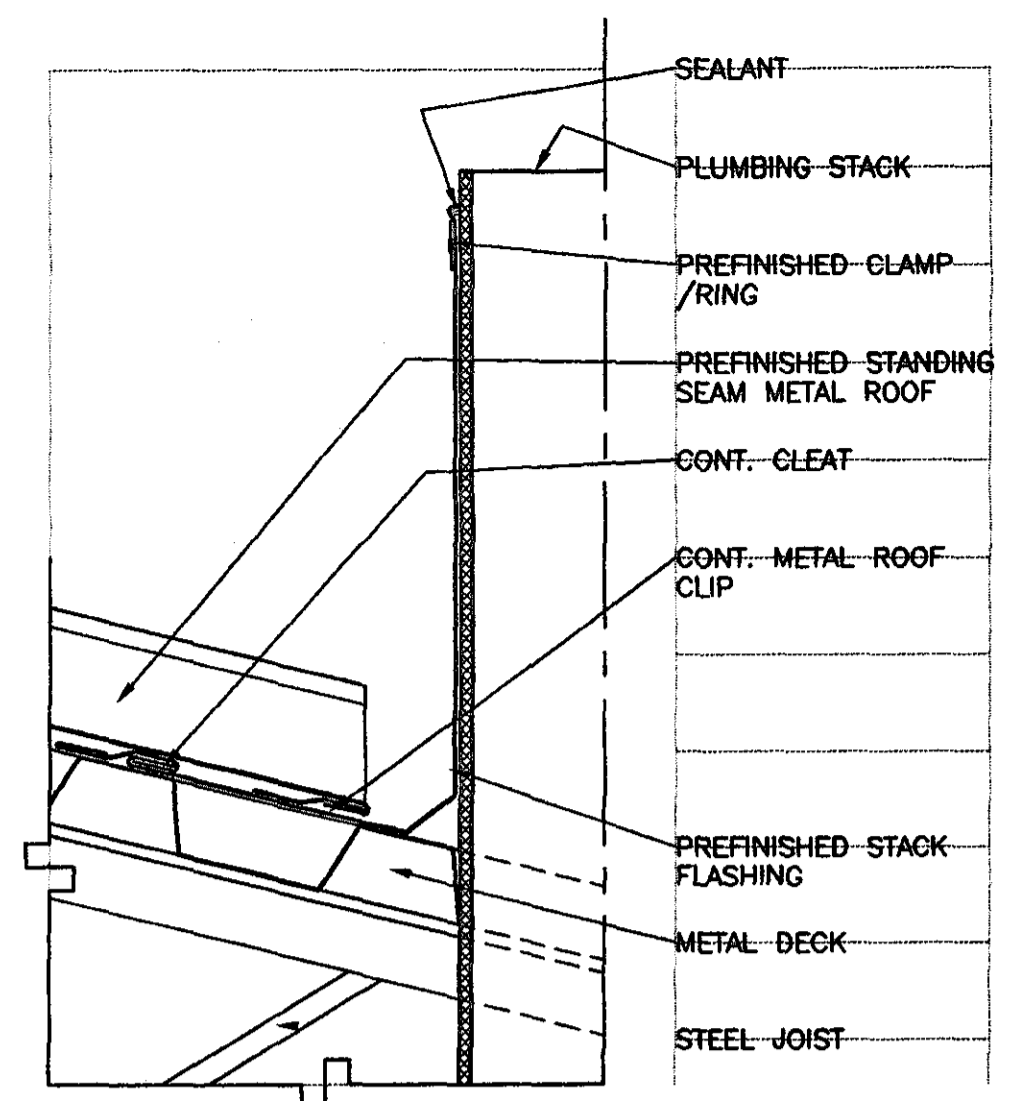
2001 Projects 6-1-019 RCO Orange Beach Rec Park W/Construction dngs\A2.03 Alt Reflected Ceiling Plan Part B.dwg Fcn Sep 14 04:35:57 2001



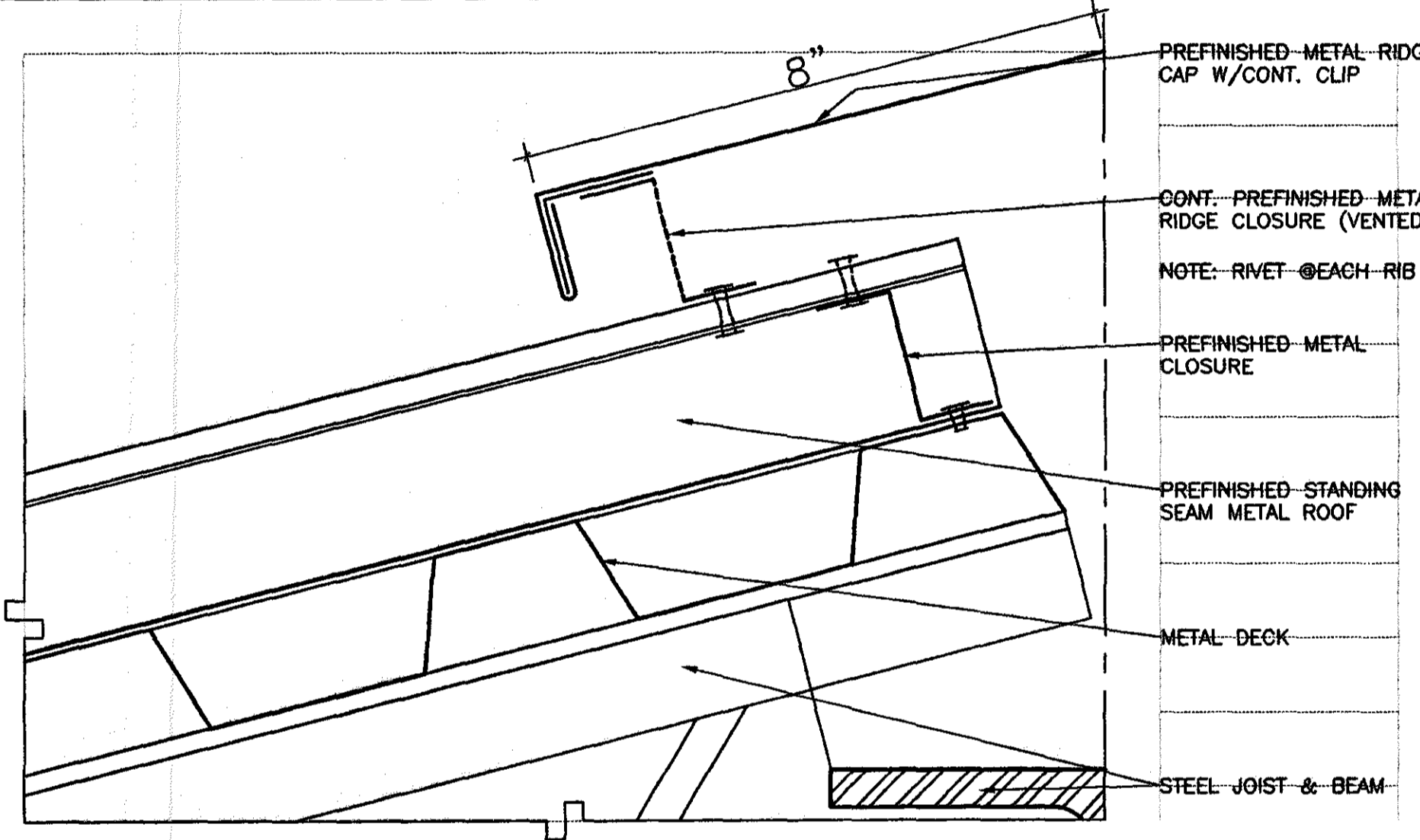
**ROOF PLAN**  
SCALE: 1/16" = 1'-0"



**1 ROOF DETAIL @ METAL VALLEY**  
A3.01 SCALE: 6" = 1'-0" SC UP-96 / SC DN-0104165

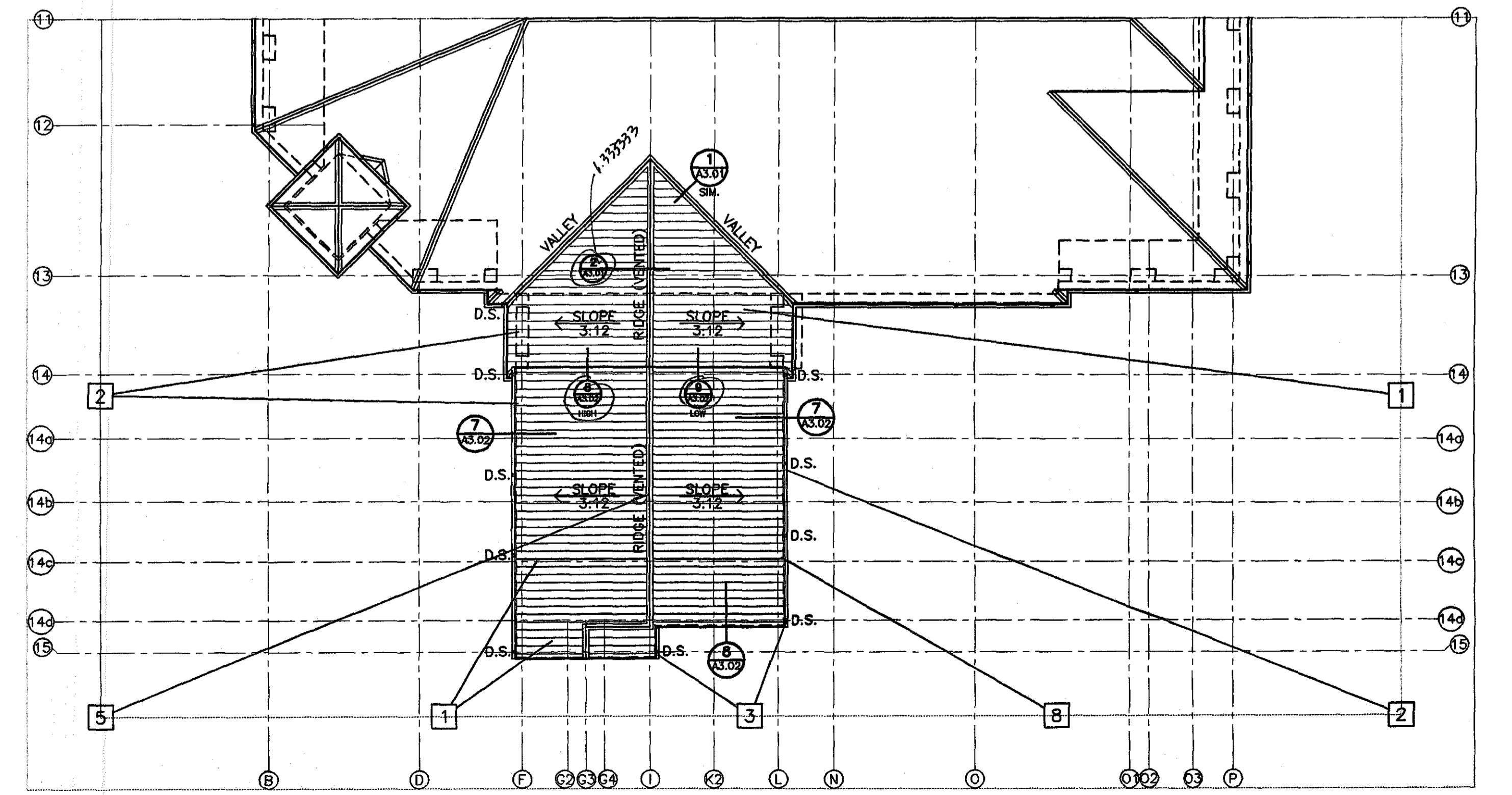


**3 ROOF PEN. DETAIL**  
A3.01 SCALE: 3" = 1'-0" SC UP-48/SC DN-0208333



**2 ROOF DETAIL @ METAL RIDGE (VENTED)**  
A3.01 SCALE: 6" = 1'-0" SC UP-96 / SC DN-0104165

- ROOF PLAN KEY NOTES:**
- 1 PREFINISHED STANDING SEAM METAL ROOF.
  - 2 PREFINISHED METAL GUTTER W/1" STRAPS @4'-0" O.C.
  - 3 PREFINISHED METAL DOWNSPOUT (D.S.) W/ CONCRETE SPLASHBLOCKS
  - 4 PREFINISHED METAL FASCIA
  - 5 PREFINISHED METAL RIDGE CAP (VENTED WHERE NOTED)
  - 6 PREFINISHED METAL VALLEY FLASHING.
  - 7 PREFINISHED ALUM. CANOPY SYSTEM
  - 8 LINE OF WALL BELOW



**ROOF PLAN**  
SCALE: 1/16" = 1'-0"

**GOODWYN, MILLS & INC.**  
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125 Interstate Park Drive, P.O. Box 3605  
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1102 South 20<sup>th</sup> Street  
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**MBC&B/ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
832 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 288-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach Alabama

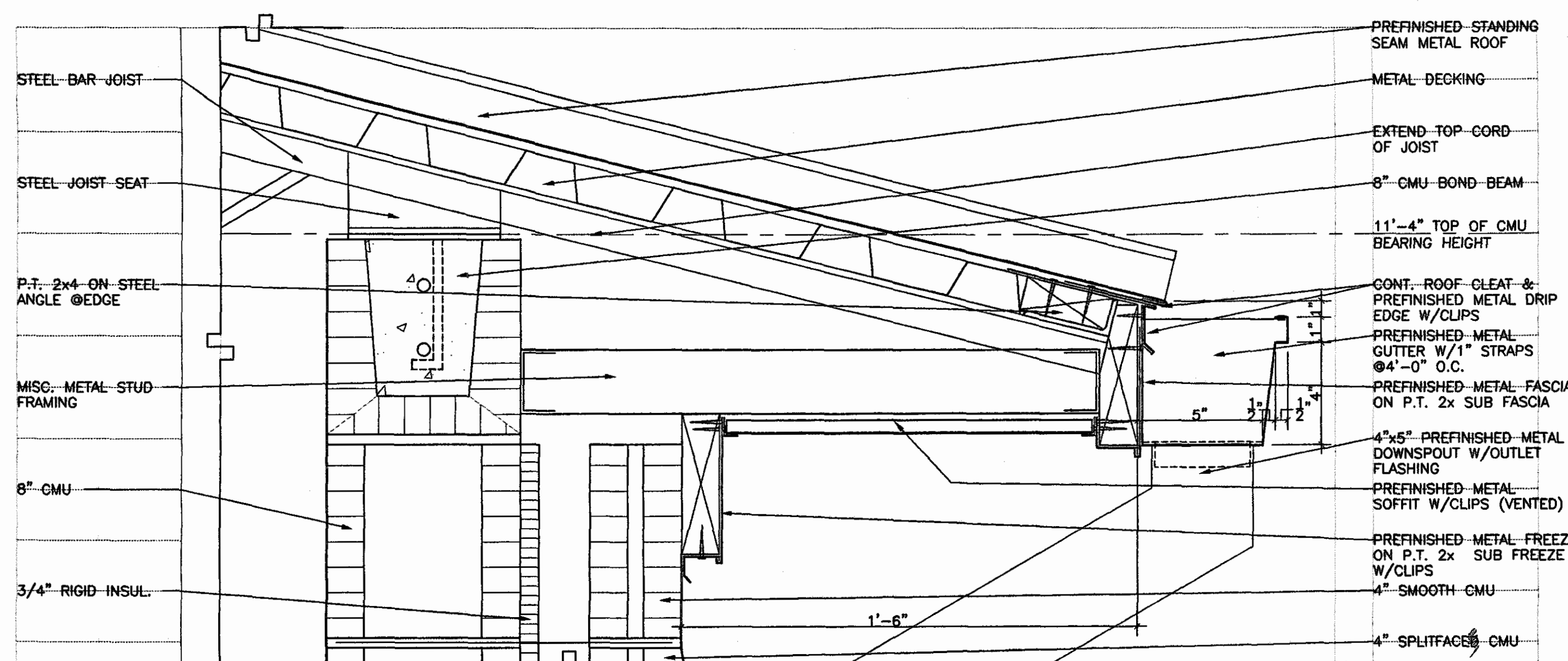
6-1-019  
STATE OF ALABAMA  
WILKIE ELLIOTT BRIDGES  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue date	
Design Development	08/10/01
FINAL	00/00/01

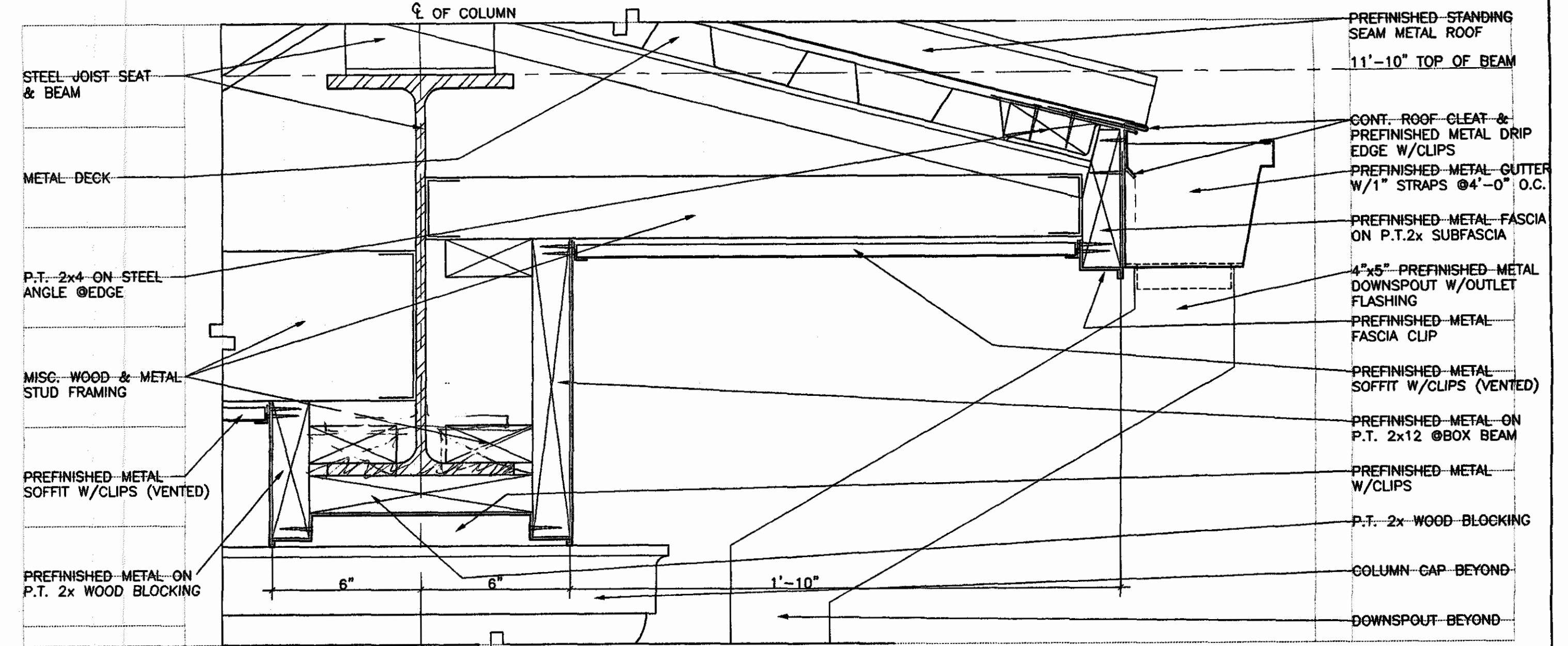
drawn by: CGB, CED  
**BASE BID & ALTERNATE ROOF PLANS**

95% SUBMITTAL  
**A3.01**  
sheet 00 of 00

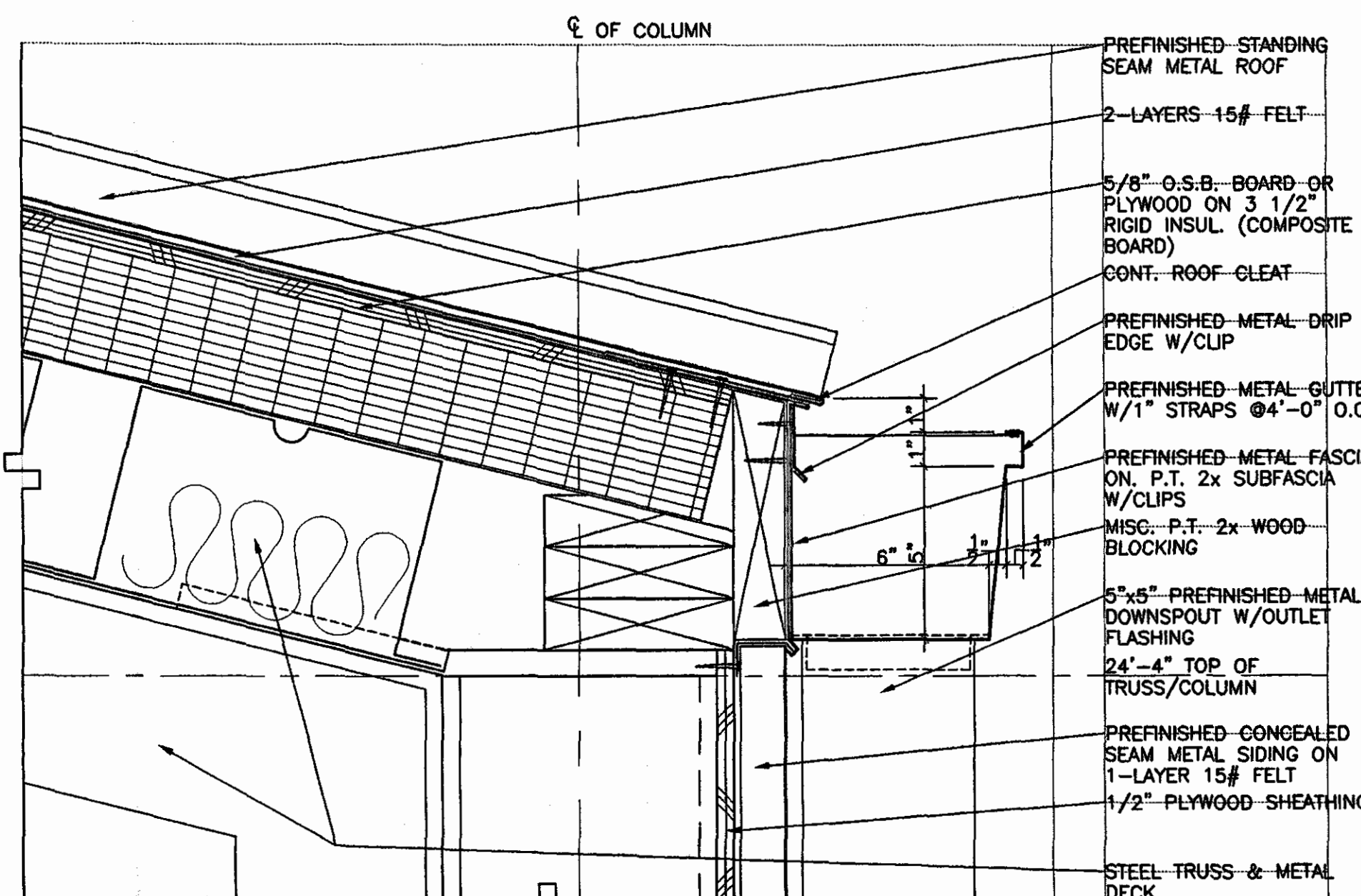
001 Projects\6-1-019 RCD Orange Beach Rec Park\A\construction\dwgs\A3.01 Roof Plan.dwg Thu Sep 13 09:51:19 2001



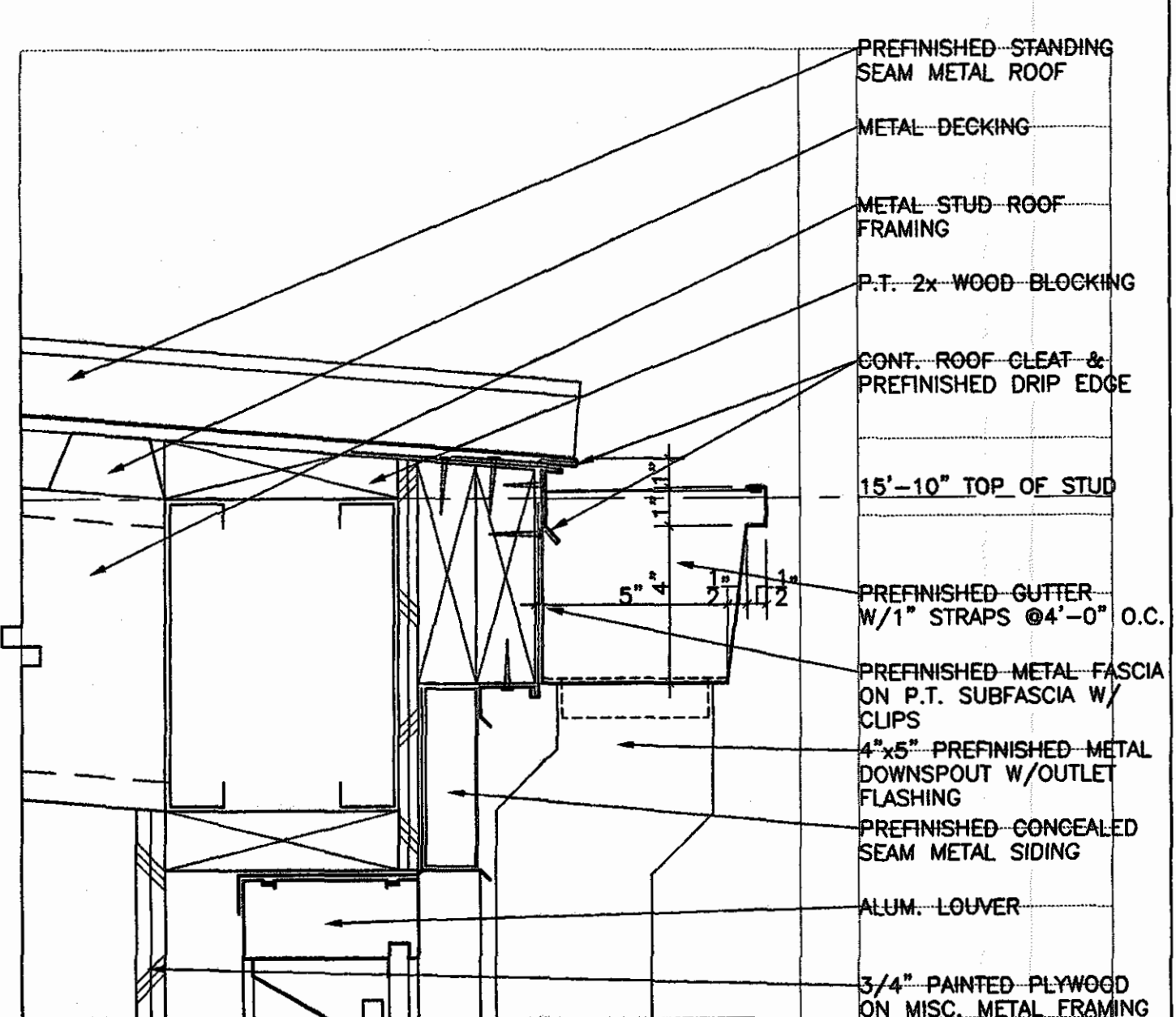
**1 TYPICAL ROOF / OVERHANG DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



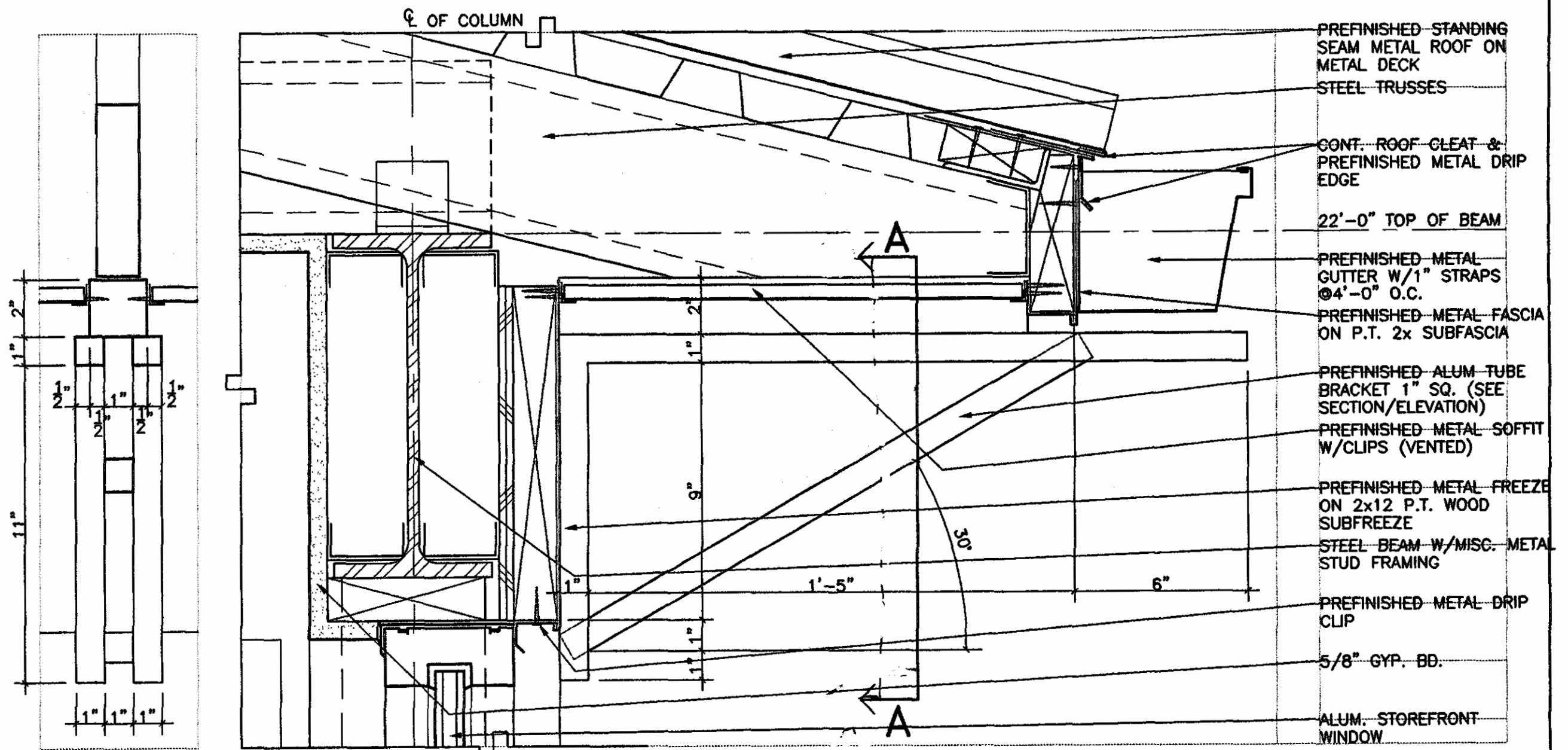
**2 TYPICAL ROOF / BOXBEAM DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



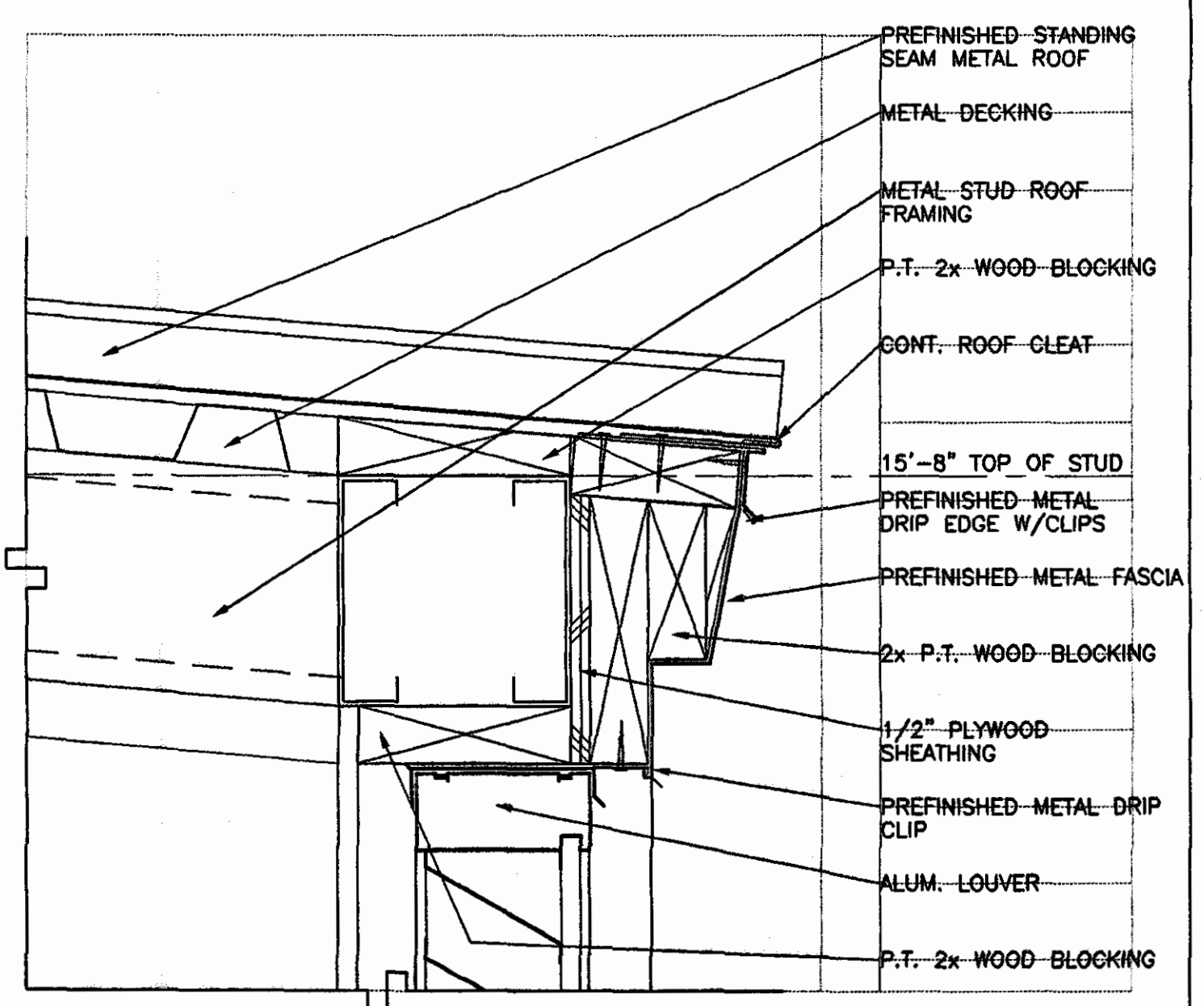
**3 TYPICAL GYMNASIUM ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



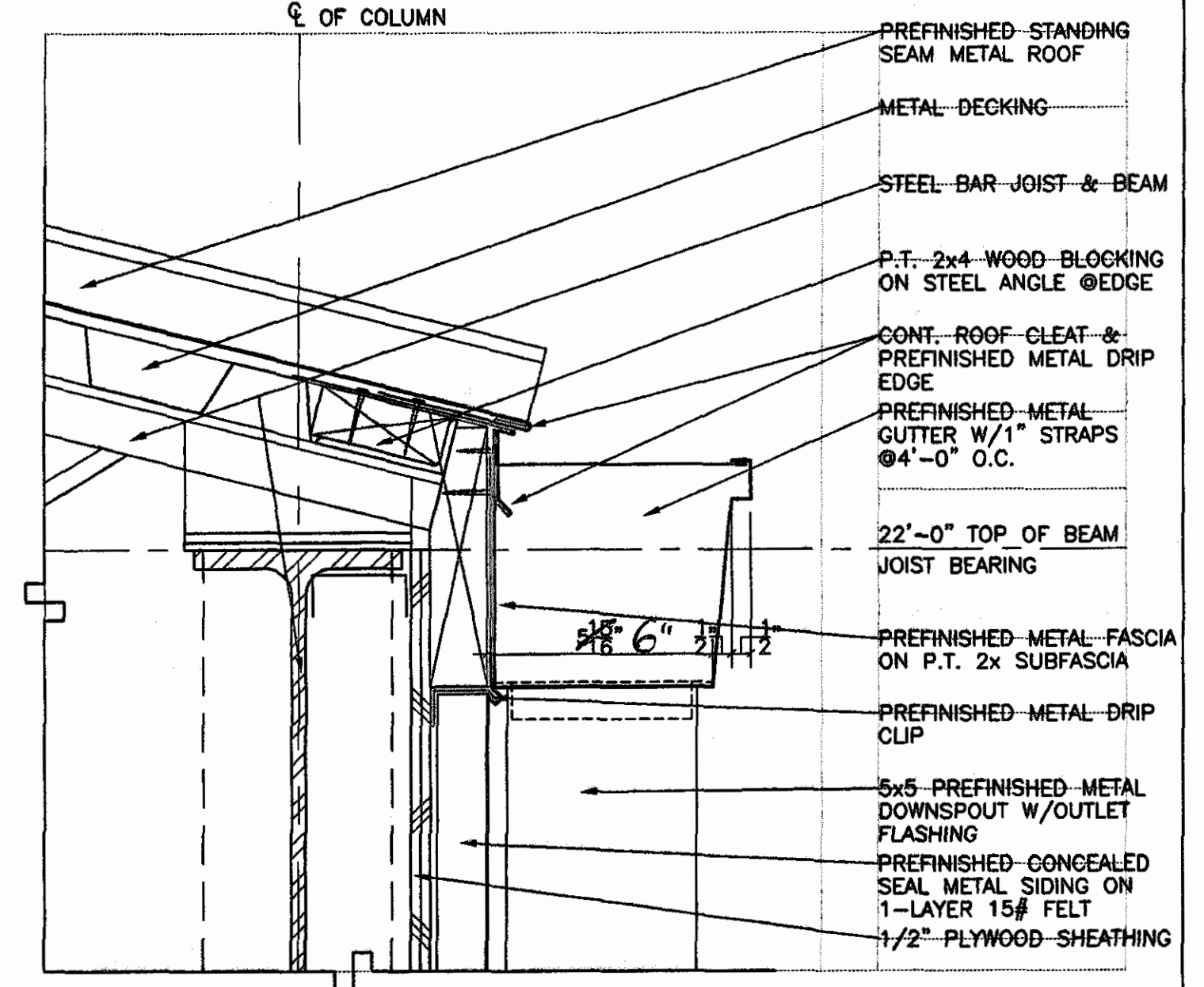
**4 GYM. STOR. ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



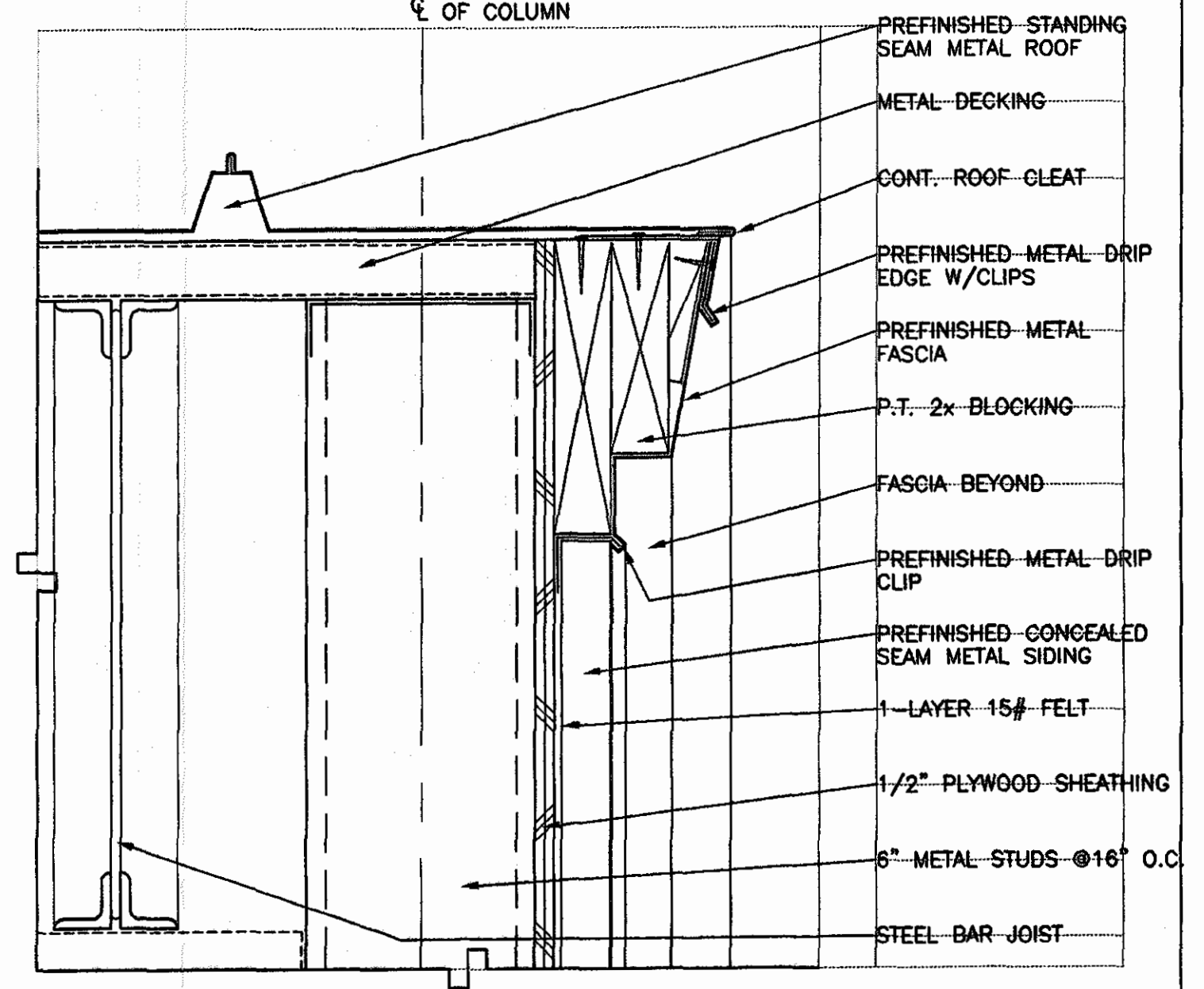
**A-A TYPICAL TOWER / DORMER sim. ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



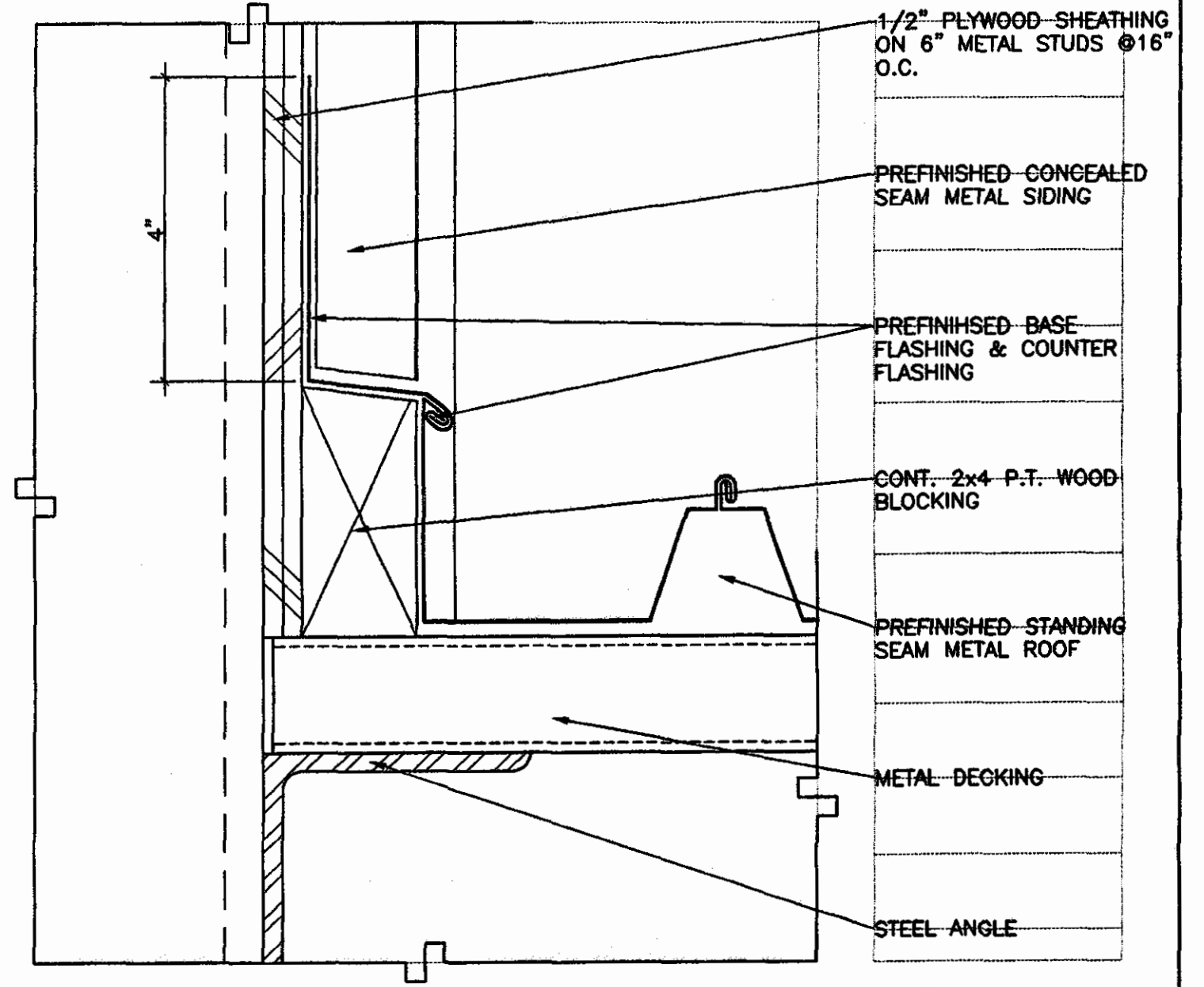
**6 TYPICAL DORMER ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



**7 TYP. RACKETBALL ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0"



**8 TYPICAL RAKE ROOF DETAIL**  
 A3.02 SCALE: 3" = 1'-0" SIMILAR @ GYMNASIUM



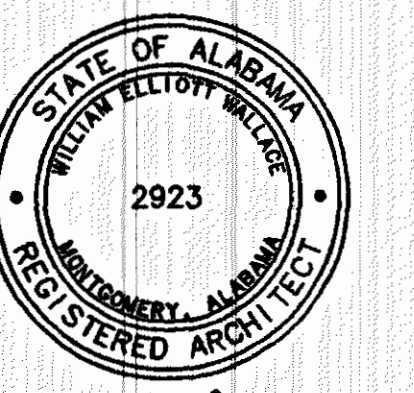
**9 TYP. WALL FLASHING DETAIL**  
 A3.02 SCALE: 6" = 1'-0" SC UP-2 / SC DN-5

**GOODWYN, MILLS & CAWOOD, INC.**  
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 LANDSCAPE ARCHITECTURE  
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 1102 South 20<sup>th</sup> Street  
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**MECH. & ELEC. ENGINEER**  
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**A NEW RECREATION COMPLEX**  
 FOR THE  
**City of Orange Beach**  
 Alabama

6-1-019



Issue date	
Design Development	08/1/01
FINAL	00/00/01

drawn by: OGB, CED  
**ROOF DETAILS**

95% SUBMITTAL  
**A3.02**  
 sheet 00 of 00

\2001 Projects\6-1-019 BCD Orange Beach Rec Park\Arch\construction dgs\A3.02 Roof Details.dwg Thu Sep 06 16:15:05 2001



# D O O R S C H E D U L E

DOOR NO.	DOOR			FRAME		FIRE RATING	HDW. SET	DETAILS			REMARKS	DOOR NO.	DOOR			FRAME		FIRE RATING	HDW. SET	DETAILS			REMARKS
	TYPE	MAT'L	THICK.	TYPE	MAT'L			HEAD	JAMB	SILL			TYPE	MAT'L	THICK.	TYPE	MAT'L			HEAD	JAMB	SILL	
<b>FLOOR PLAN PART (A)</b>												<b>FLOOR PLAN PART (B)</b>											
A1	1-A	H.M.	1 3/4"	1-A	H.M.	----		1/A4.03	1/A4.03 SIM.	6/A4.03		B26	8-A	WOOD	1 3/4"	9-A	H.M.	----	17/A4.03	17/A4.03 SIM.	----		
A2	1-A	H.M.	1 3/4"	1-A	H.M.	----		1/A4.03	1/A4.03 SIM.	6/A4.03		B27	10-A	ALUM.	AS PER MANUFACTURE	2 HOUR	AS PER MANUF.	4/A4.03	9/A4.03 SIM.	10/A4.03	----	NOTE #1	
A3	1-A	H.M.	1 3/4"	1-A	H.M.	----		1/A4.03	1/A4.03 SIM.	6/A4.03		B28	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	----		
A4	1-A	H.M.	1 3/4"	1-A	H.M.	----		1/A4.03	1/A4.03 SIM.	6/A4.03		B29	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	10/A4.03		
A5	1-A	H.M.	1 3/4"	1-A	H.M.	----		3/A4.03	3/A4.03 SIM.	21/A4.03		B30	8-A	WOOD	1 3/4"	9-A	H.M.	----	16/A4.03	16/A4.03 SIM.	----		
A6	2-A	H.M.	1 3/4"	2-A	H.M.	----		3/A4.03	3/A4.03 SIM.	21/A4.03		B31	10-B	ALUM.	AS PER MANUFACTURE	----	AS PER MANUF.	4/A4.03	9/A4.03 SIM.	10/A4.03	----	NOTE #1	
A7	1-A	WOOD	1 3/4"	1-A	WOOD	20 MIN.		8/A4.03	8/A4.03 SIM.	21/A4.03		B32	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03	----		
A8	3-A	WOOD	1 3/4"	3-A	WOOD	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03		B33	8-A	WOOD	1 3/4"	9-A	H.M.	----	16/A4.03	16/A4.03	----		
A9	3-A	WOOD	1 3/4"	3-A	WOOD	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03		B34	10-B	ALUM.	AS PER MANUFACTURE	----	AS PER MANUF.	4/A4.03	9/A4.03 SIM.	10/A4.03	----	NOTE #1	
A10	4-A	STEEL	SEE DETAIL	4-A	STEEL	----		12/A4.03	12/A4.03 SIM.	----		B35	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	10/A4.03		
												B36	11-A	AS PER MANUFACTURE	----	AS PER MANUF.	14/A4.03	14/A4.03	----	----	NOTE #1 & 2		
												B37	8-A	WOOD	1 3/4"	9-A	H.M.	----	16/A4.03	16/A4.03 SIM.	----		
												B38	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	10/A4.03		
												B39	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	----		
												B40	3-A	WOOD	1 3/4"	3-A	H.M.	----	16/A4.03	16/A4.03 SIM.	----		
<b>FLOOR PLAN PART (B)</b>												<b>FLOOR PLAN PART (B)</b>											
B1	5-A	ALUM.	1 3/4"	5-A	ALUM.	----		2/A4.03	7/A4.03	6/A4.03 SIM.													
B2	5-A	ALUM.	1 3/4"	6-A	ALUM.	----		13/A4.03	13/A4.03 SIM.	13/A4.03 SIM.													
B3	5-A	ALUM.	1 3/4"	6-A	ALUM.	----		13/A4.03	13/A4.03 SIM.	13/A4.03 SIM.													
B4	5-A	ALUM.	1 3/4"	6-A	ALUM.	----		13/A4.03	13/A4.03 SIM.	13/A4.03 SIM.													
B5	6-A	H.M.	1 3/4"	7-A	H.M.	----		1/A4.03	1/A4.03 SIM.	6/A4.03													
B6	7-A	ALUM.	1 3/4"	8-A	ALUM.	----		13/A4.03	13/A4.03 SIM.	6/A4.03 SIM.													
B7	5-A	ALUM.	1 3/4"	6-A	ALUM.	----		13/A4.03	13/A4.03 SIM.	6/A4.03 SIM.													
B8	8-A	WOOD	1 3/4"	9-A	H.M.	----		16/A4.03	16/A4.03 SIM.	21/A4.03													
B9	5-A	WOOD	1 3/4"	9-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03													
B10	5-A	WOOD	1 3/4"	9-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	----													
B11	3-A	WOOD	1 3/4"	3-A	H.M.	----		16/A4.03	16/A4.03 SIM.	----													
B12	5-A	WOOD	1 3/4"	9-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	----													
B13	9-A	ALUM.	AS PER MANUFACTURE	AS PER MANUFACTURE	AS PER MANUF.	AS PER MANUF.		5/A4.03	11/A4.03	----	NOTE #1												
B14	5-A	WOOD	1 3/4"	9-A	H.M.	----		16/A4.03	16/A4.03	----													
B15	9-A	ALUM.	AS PER MANUFACTURE	AS PER MANUFACTURE	AS PER MANUF.	AS PER MANUF.		5/A4.03	11/A4.03	----	NOTE #1												
B16	7-A	WOOD	1 3/4"	10-A	H.M.	20 MIN.		18/A4.03	18/A4.03	----													
B17	5-A	WOOD	1 3/4"	11-A	H.M.	20 MIN.		16/A4.03 SIM.	16/A4.03 SIM.	21/A4.03													
B18	3-A	WOOD	1 3/4"	3-A	H.M.	----		16/A4.03	16/A4.03 SIM.	----													
B19	3-A	WOOD	1 3/4"	3-A	H.M.	----		16/A4.03	16/A4.03 SIM.	----													
B20	7-A	WOOD	1 3/4"	10-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03													
B21	3-A	WOOD	1 3/4"	3-A	H.M.	----		16/A4.03	16/A4.03 SIM.	----													
B22	3-A	WOOD	1 3/4"	3-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03													
B23	3-A	WOOD	1 3/4"	3-A	H.M.	20 MIN.		16/A4.03	16/A4.03 SIM.	21/A4.03													
B24	3-A	WOOD	1 3/4"	3-A	H.M.	20 MIN.		8/A4.03	8/A4.03 SIM.	21/A4.03													
B25	3-A	WOOD	1 3/4"	3-A	H.M.	20 MIN.		8/A4.03	8/A4.03 SIM.	----													

### DOOR ABBREVIATION LEGEND

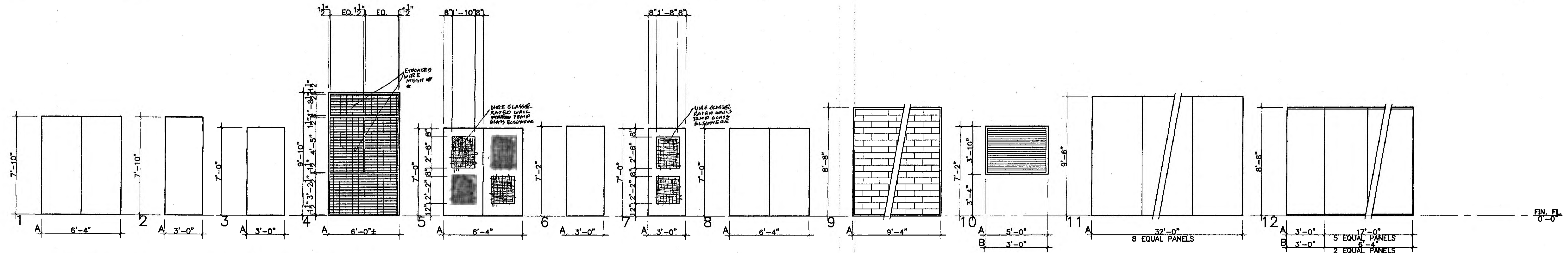
H.M. HOLLOW METAL  
 ALUM. ALUMINUM  
 ---- INDICATES NO WORK REQUIRED UNLESS NOTED OTHERWISE

### GENERAL DOOR NOTES:

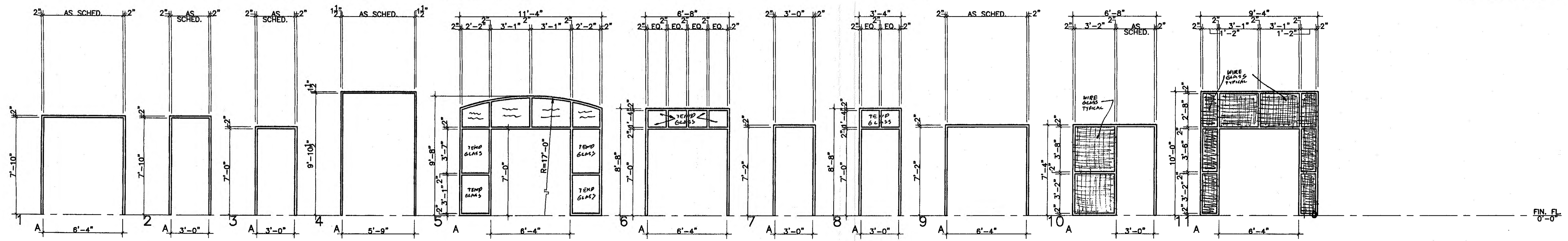
- ALL DOOR DETAILS ARE ON SHEET A4.03
- SEE DETAIL 21/A4.03 AND FLOOR FINISHES TO DETERMINE WHICH THRESHOLD APPLIES

### REMARK DOOR NOTES:

- SEE SPECIFICATIONS FOR EXACT REQUIREMENTS
- THIS DOOR IS AN ALTERNATE (SEE SPECIFICATIONS FOR ALTERNATES)



**D O O R T Y P E S**  
 SCALE: 1/4" = 1'-0"



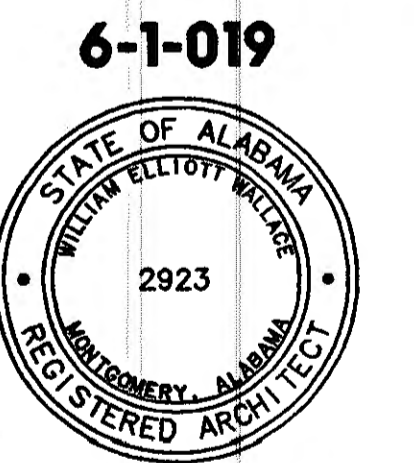
**F R A M E T Y P E S**  
 SCALE: 1/4" = 1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
 ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 125 Interstate Park Drive, P.O. Box 3605  
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**MBC&L ENGINEER**  
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**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**



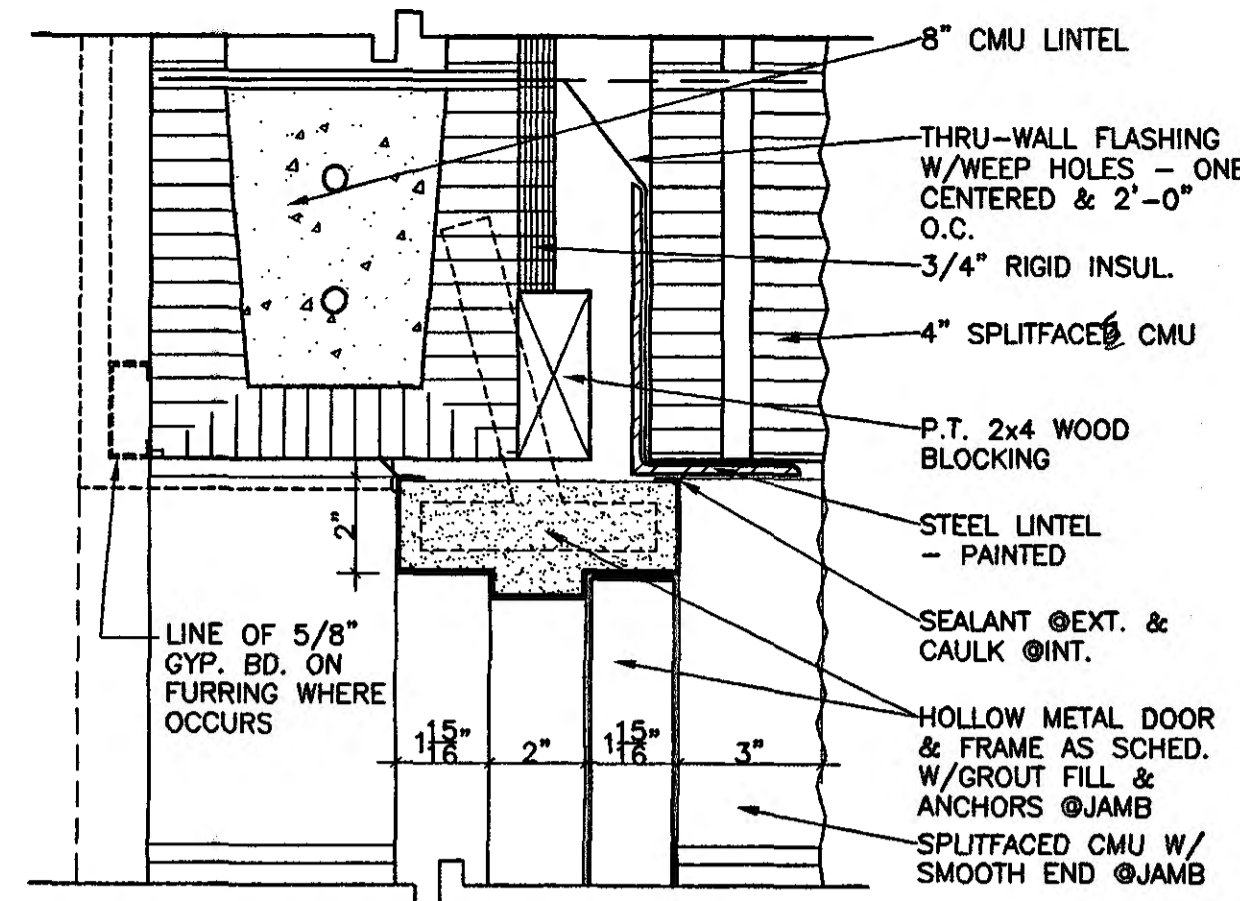
Issue	date
Design Development	08/10/01
FINAL	00/00/01

drawn by: GGB, CED  
**DOOR SCHEDULE & DOOR TYPES**

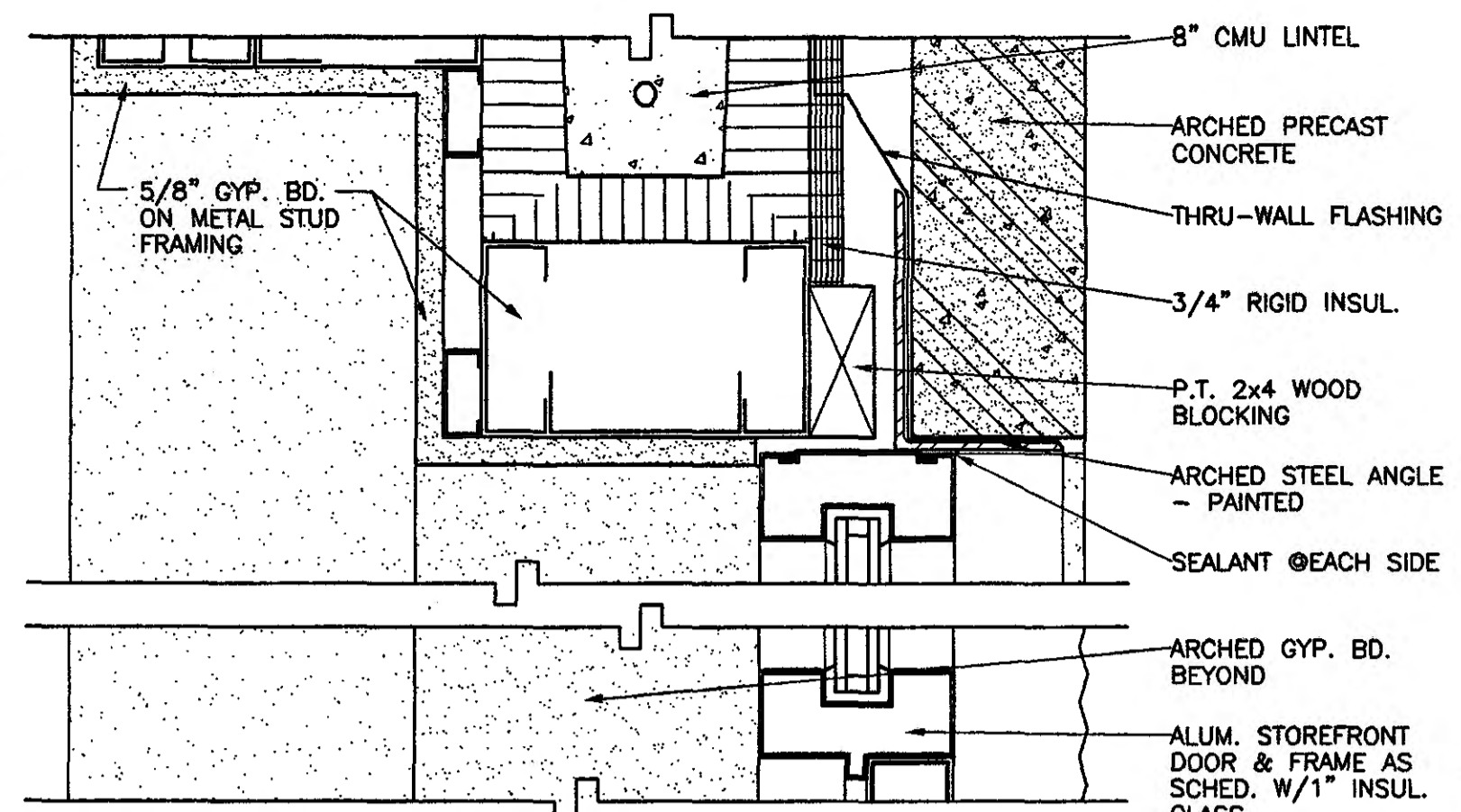
**5% SUBMITTAL**  
**A4.02**  
 sheet 00 of 00

S:\2001 Projects\6-1-019 RD Orange Beach Rec Park\Arch\Construction dngs\A4.02 Door Sched.dwg Thu Sep 13 09:47:07 2001

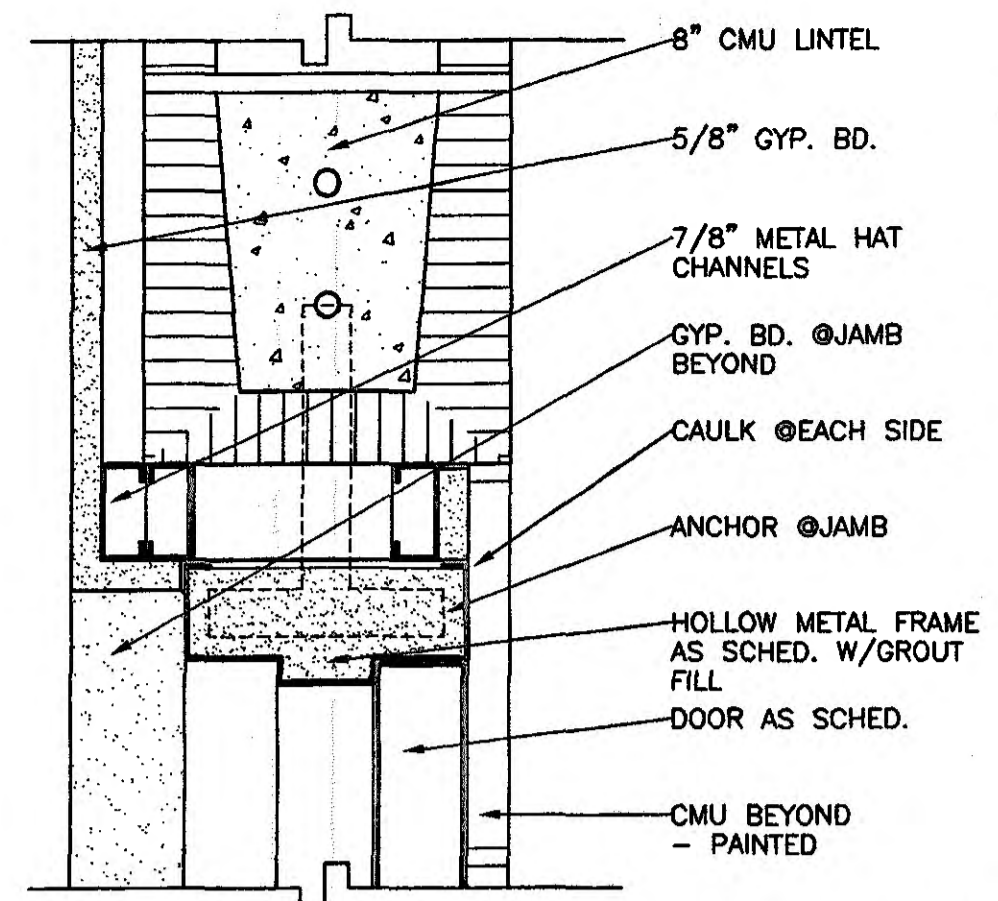




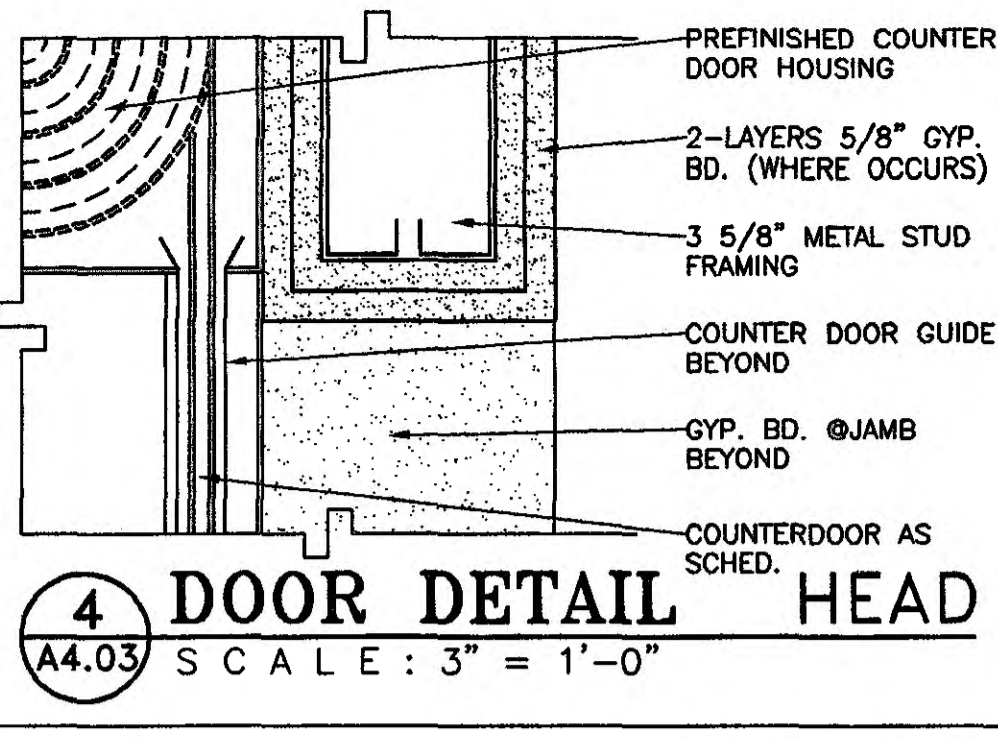
**1 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



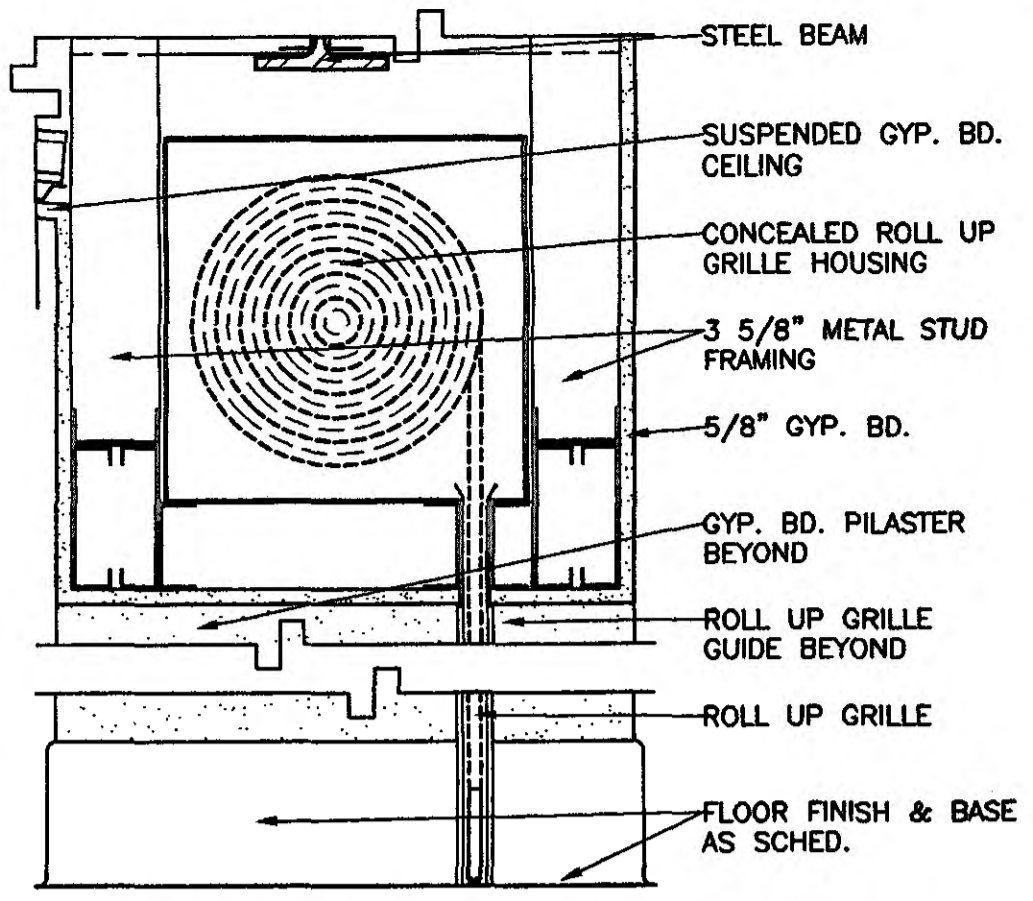
**2 DOOR DETAIL HEAD**  
A4.03 SCALE: 3" = 1'-0"



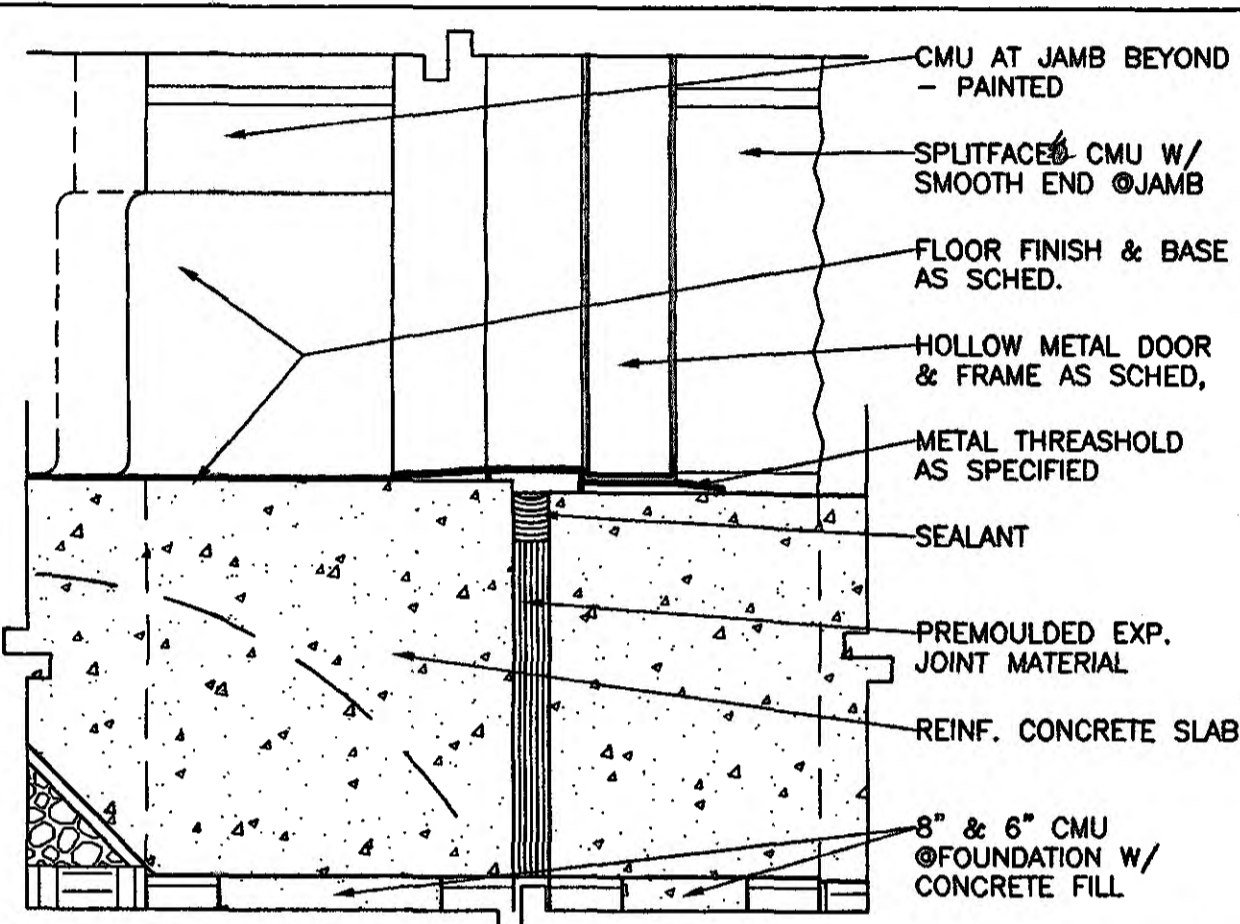
**3 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



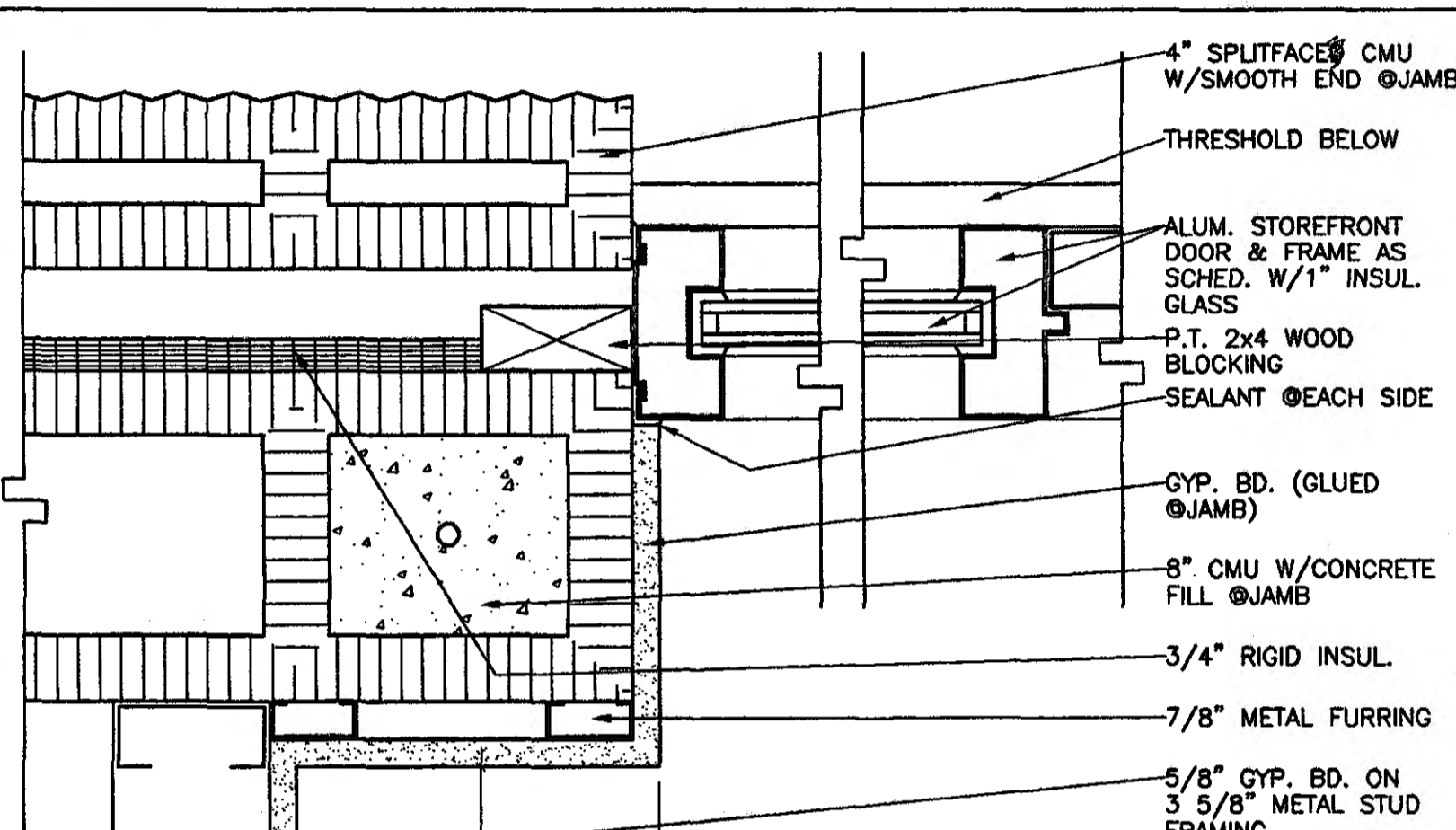
**4 DOOR DETAIL HEAD**  
A4.03 SCALE: 3" = 1'-0"



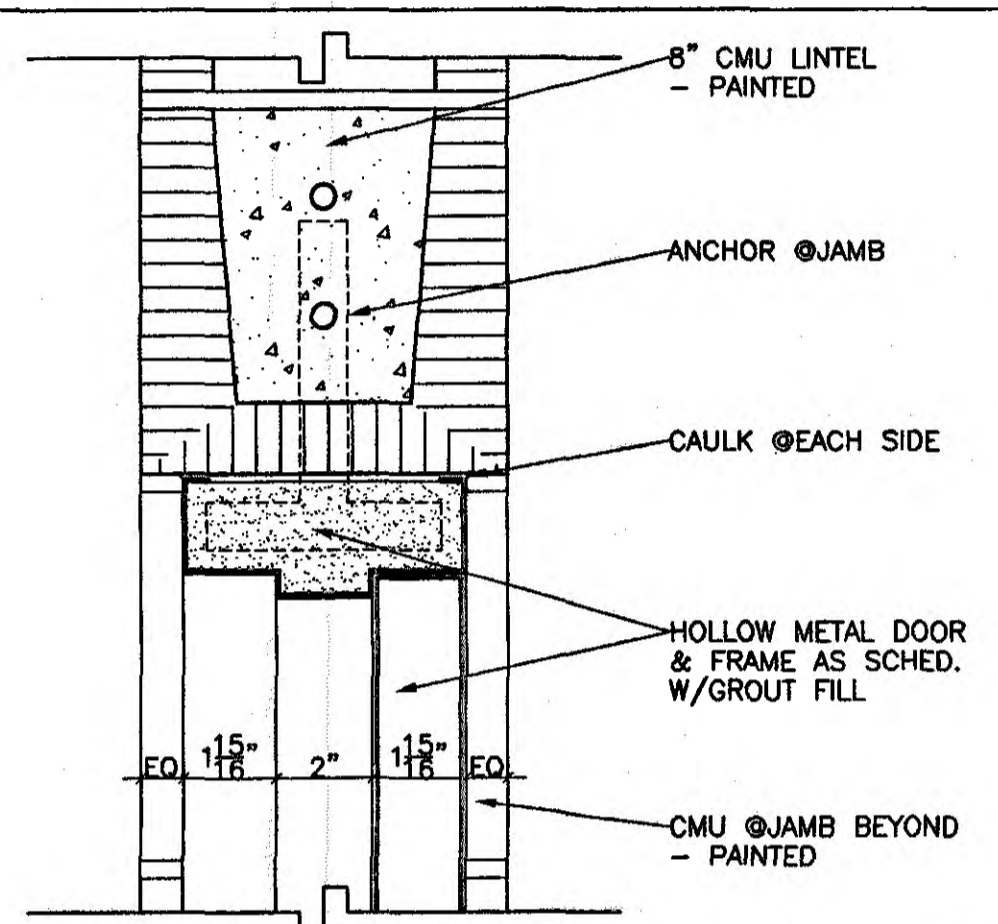
**5 DOOR DETAIL HEAD/SILL**  
A4.03 SCALE: 1 1/2" = 1'-0"



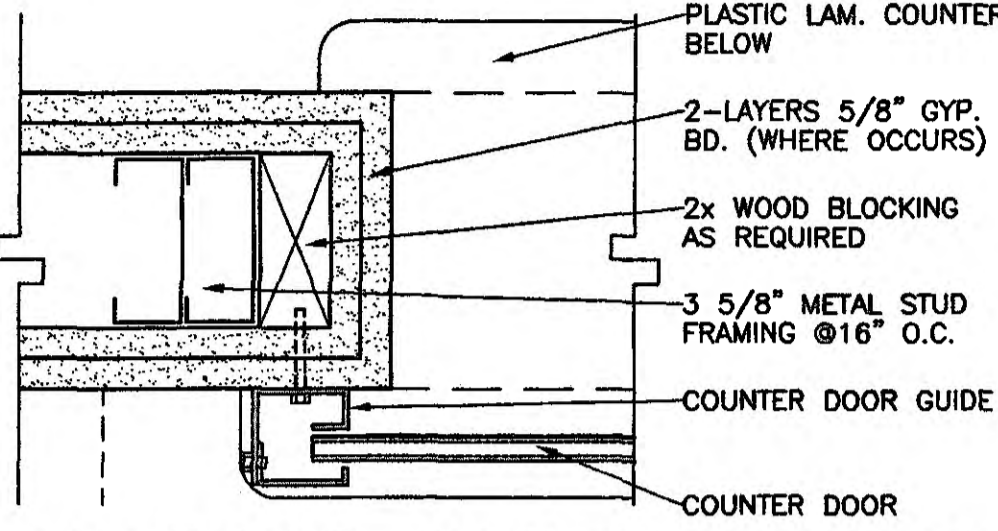
**6 DOOR DETAIL SILL/THRESHOLD**  
A4.03 SCALE: 3" = 1'-0"



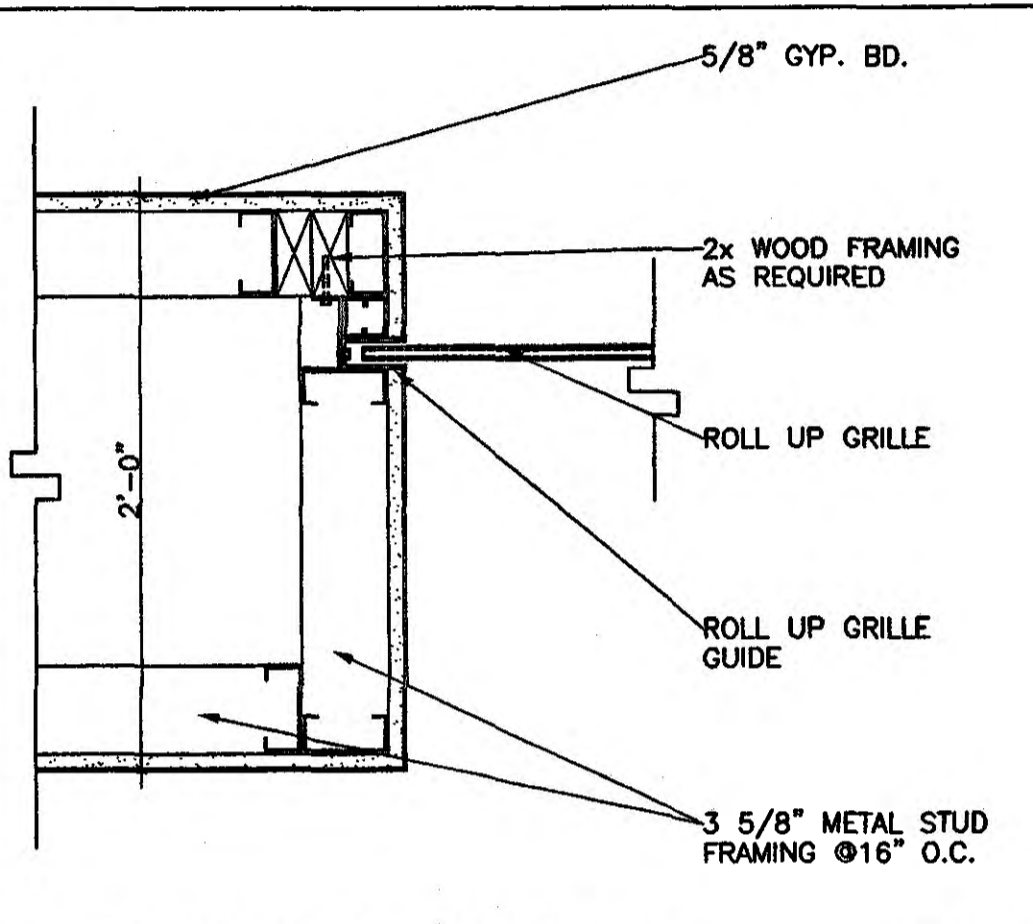
**7 DOOR DETAIL JAMB**  
A4.03 SCALE: 3" = 1'-0"



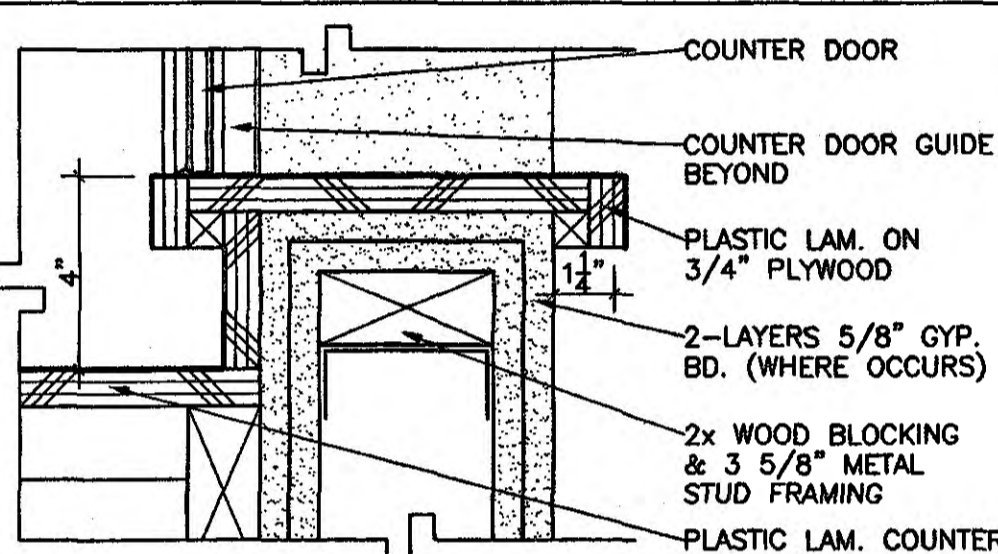
**8 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



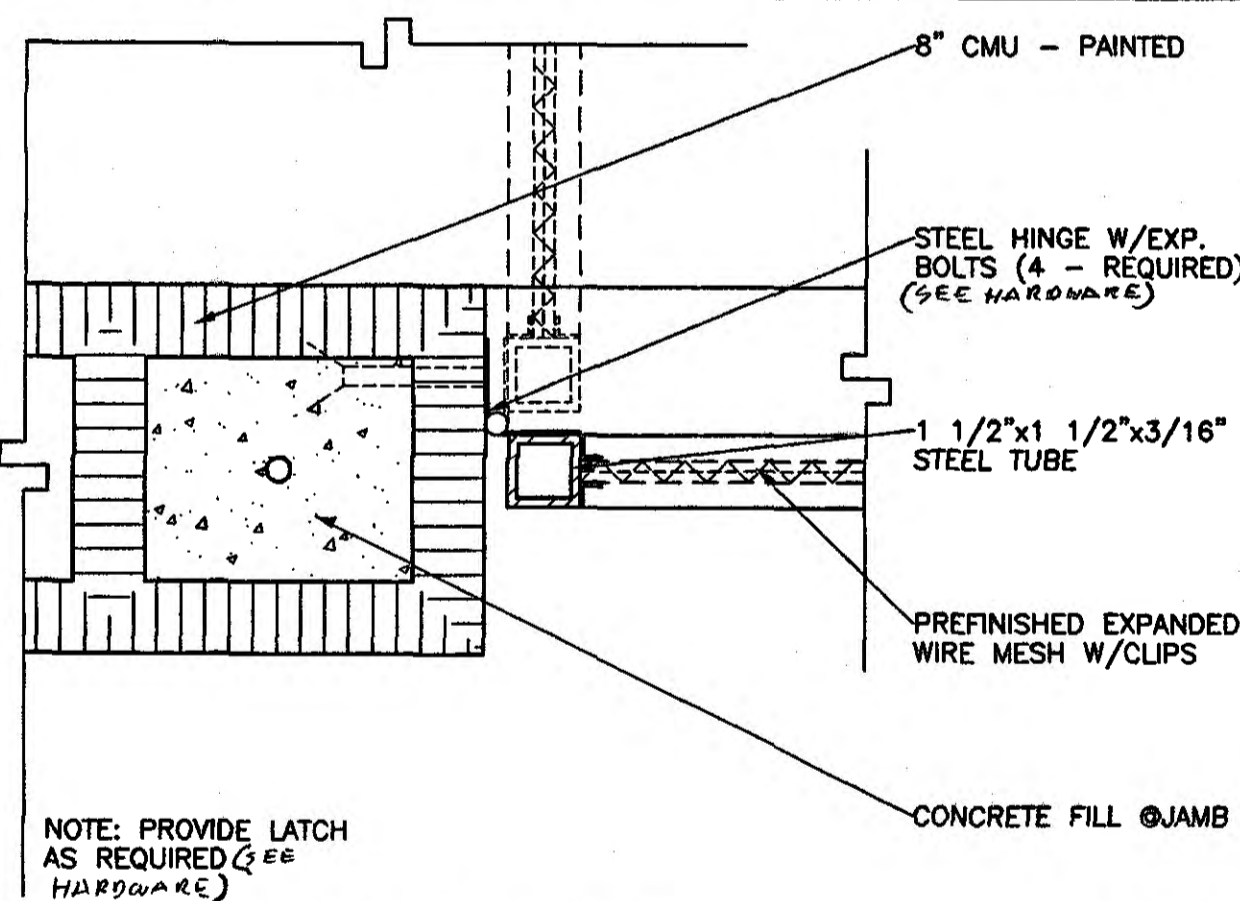
**9 DOOR DETAIL JAMB**  
A4.03 SCALE: 3" = 1'-0"



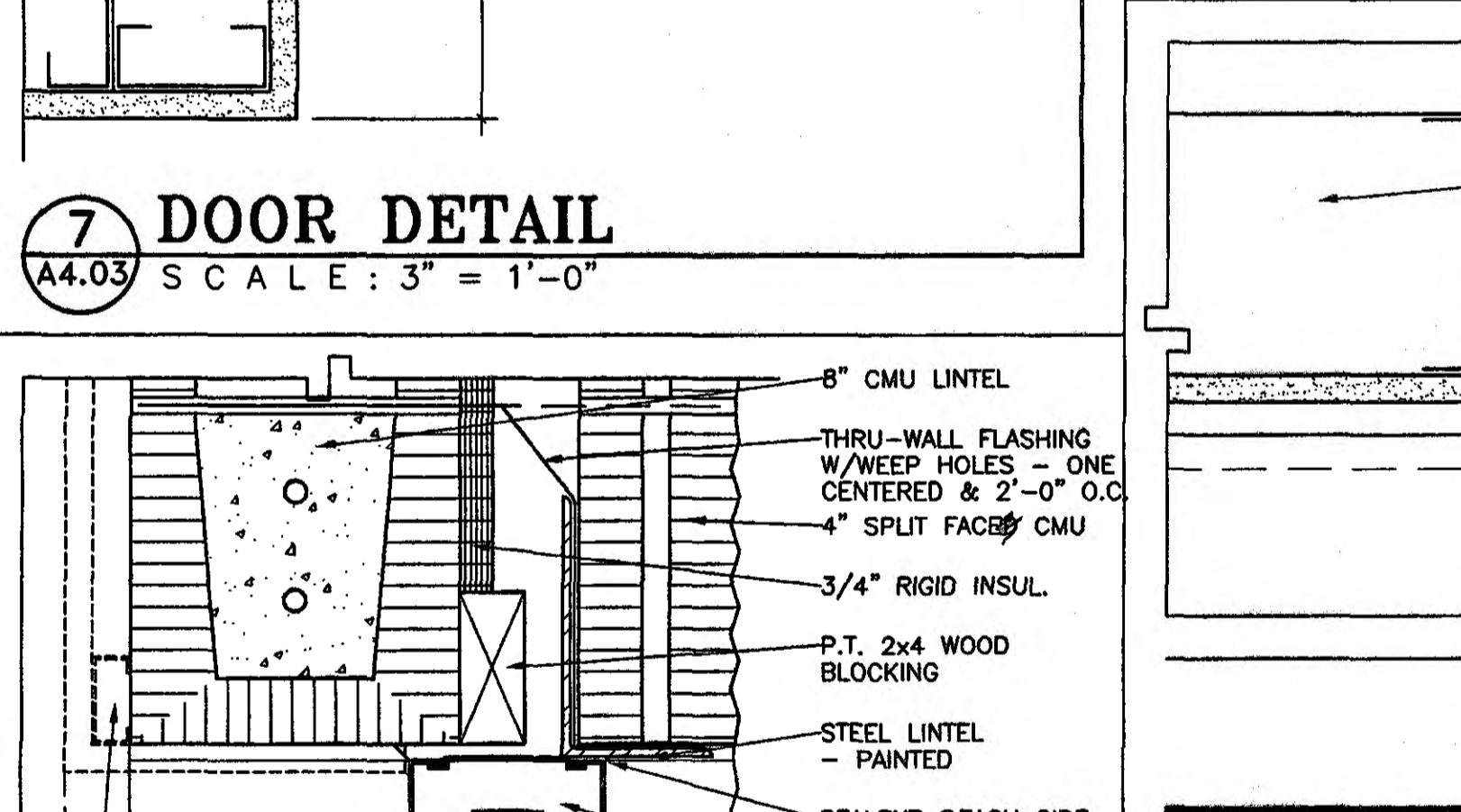
**11 DOOR DETAIL JAMB**  
A4.03 SCALE: 1 1/2" = 1'-0"



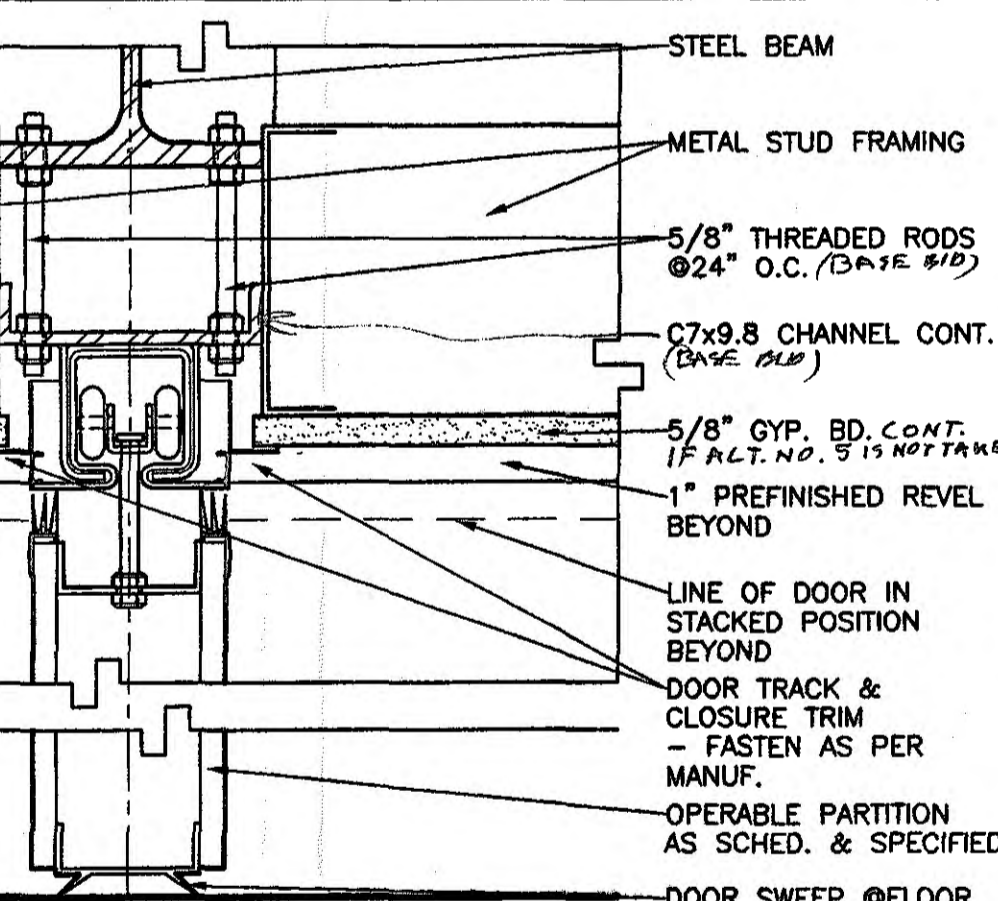
**10 DOOR DETAIL SILL**  
A4.03 SCALE: 3" = 1'-0"



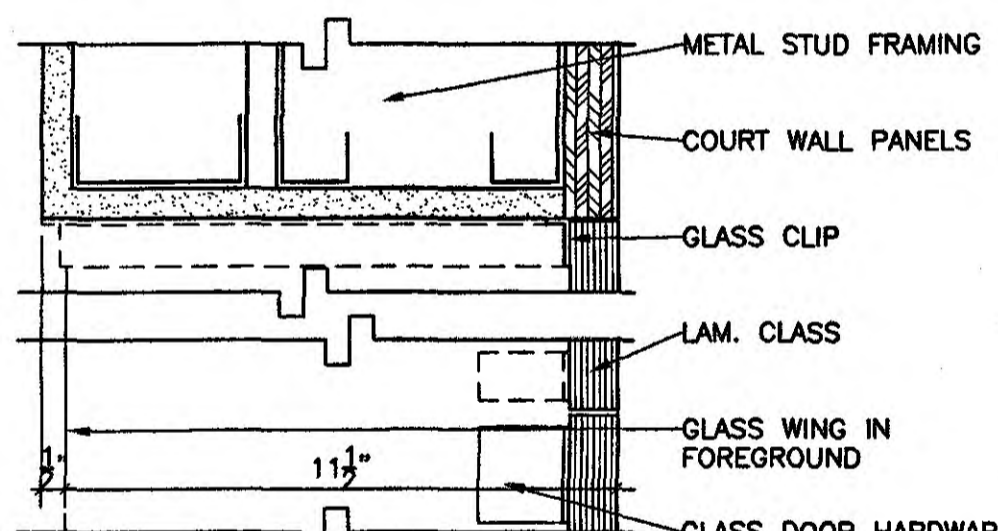
**12 DOOR DETAIL JAMB/HEAD SIM.**  
A4.03 SCALE: 3" = 1'-0"



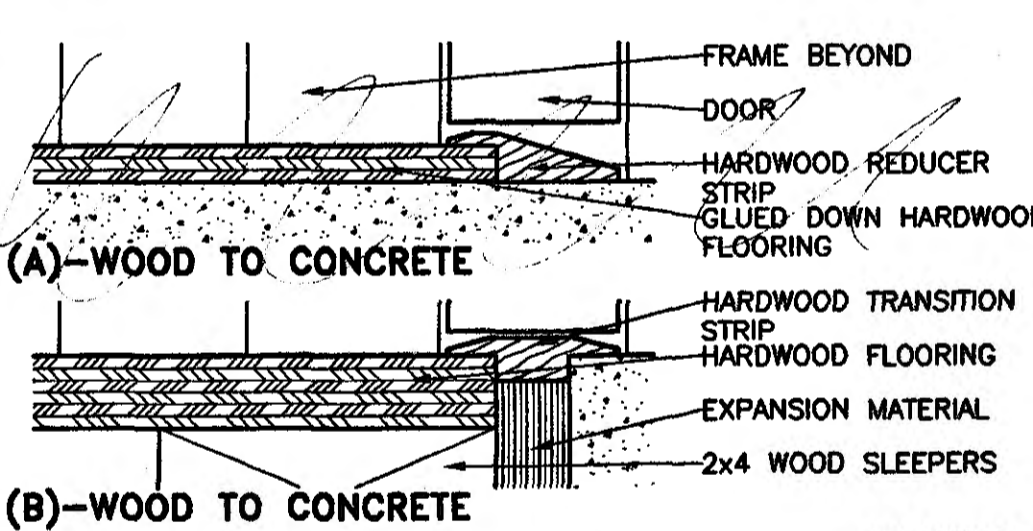
**13 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



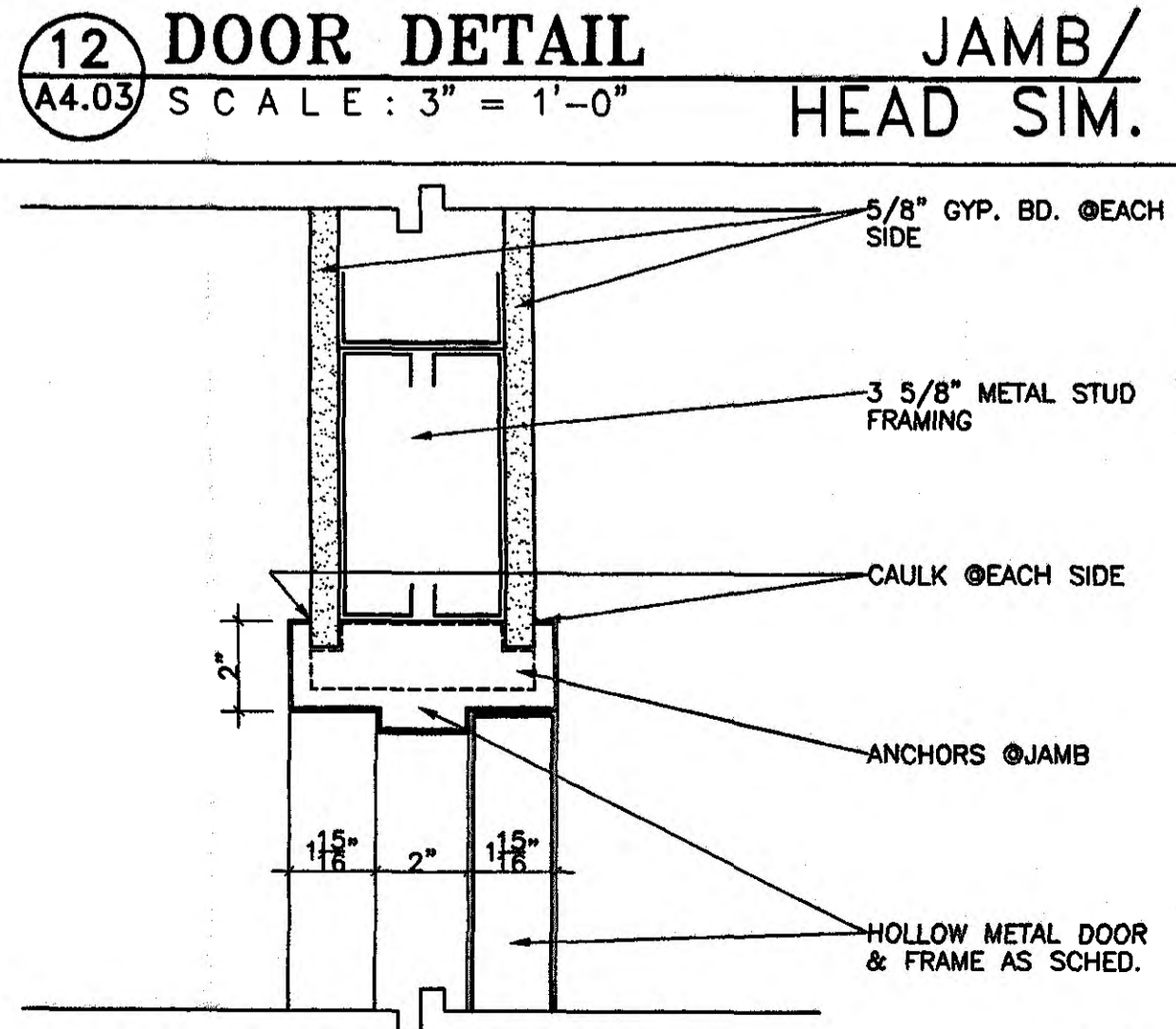
**14 DOOR DETAIL HEAD/SILL**  
A4.03 SCALE: 3" = 1'-0"



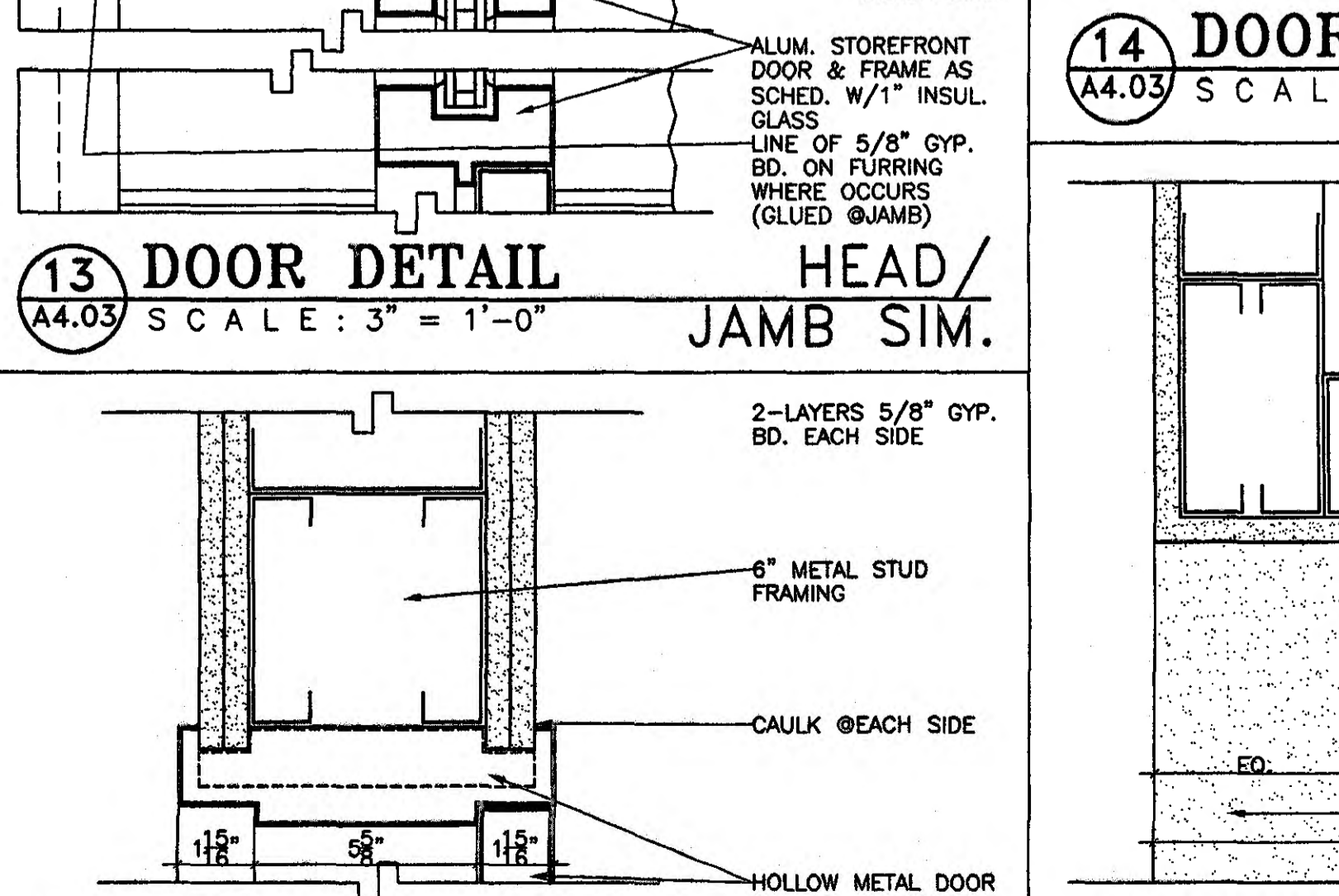
**15 DOOR DETAIL HEAD**  
A4.03 SCALE: 3" = 1'-0"



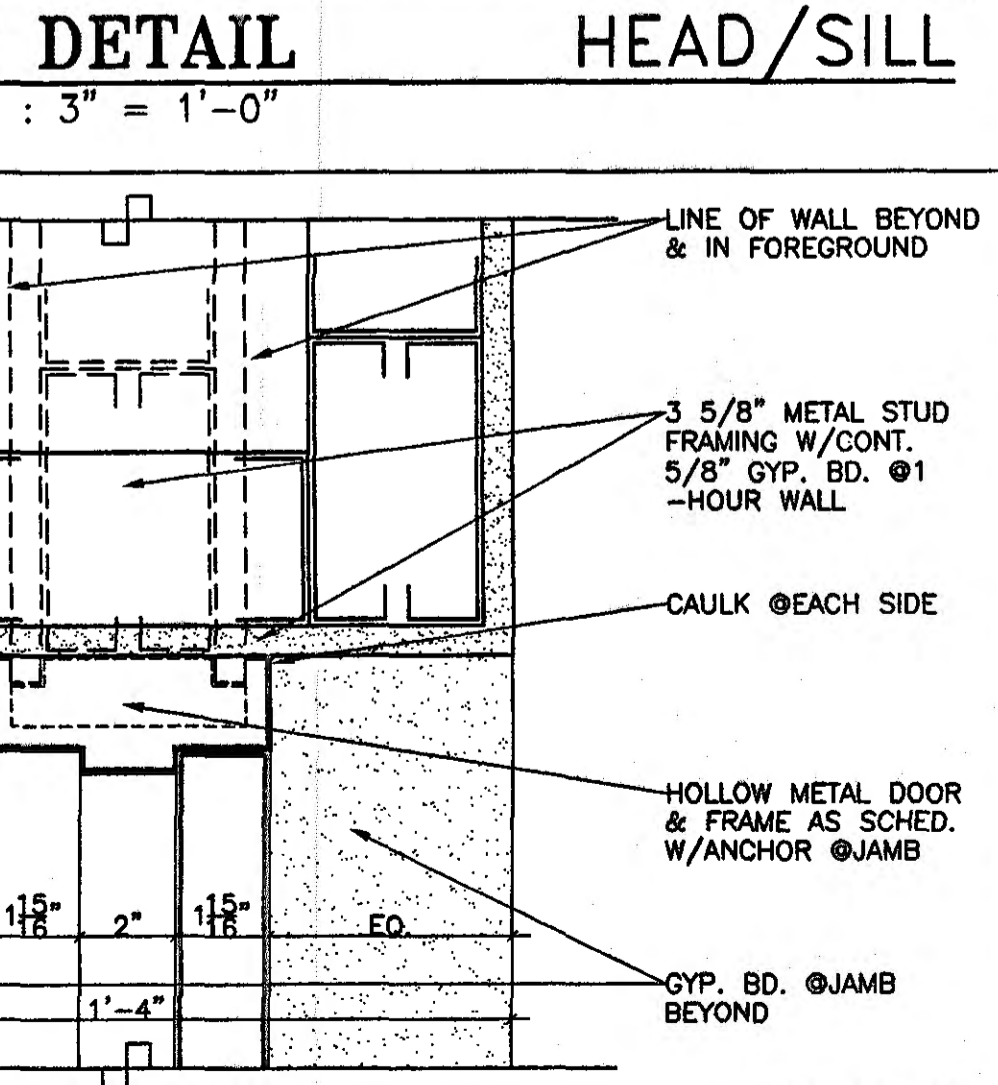
**(A) WOOD TO CONCRETE**



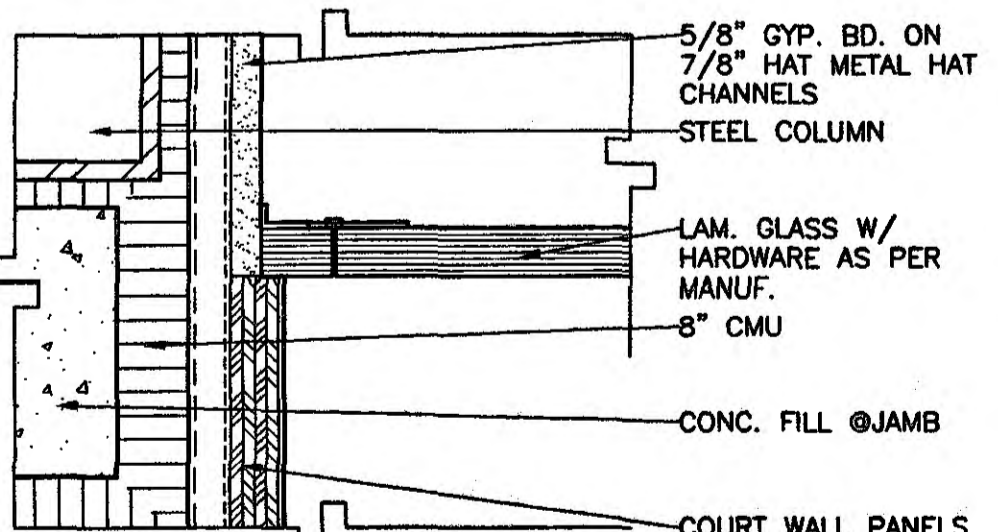
**16 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



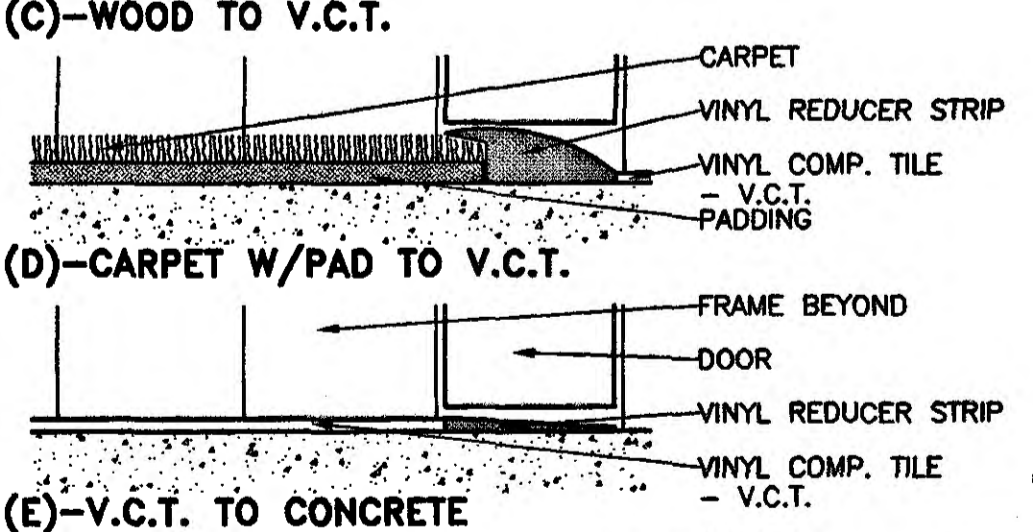
**17 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



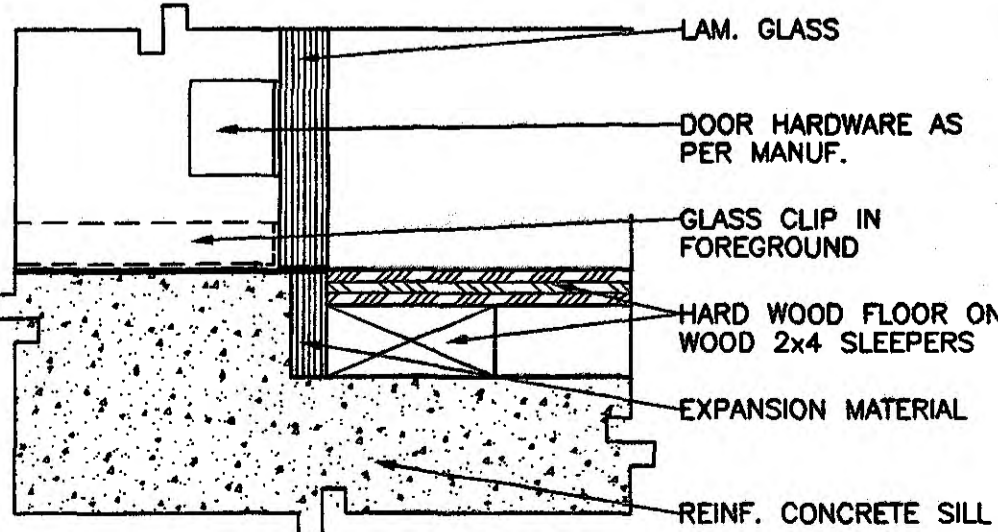
**18 DOOR DETAIL HEAD/JAMB SIM.**  
A4.03 SCALE: 3" = 1'-0"



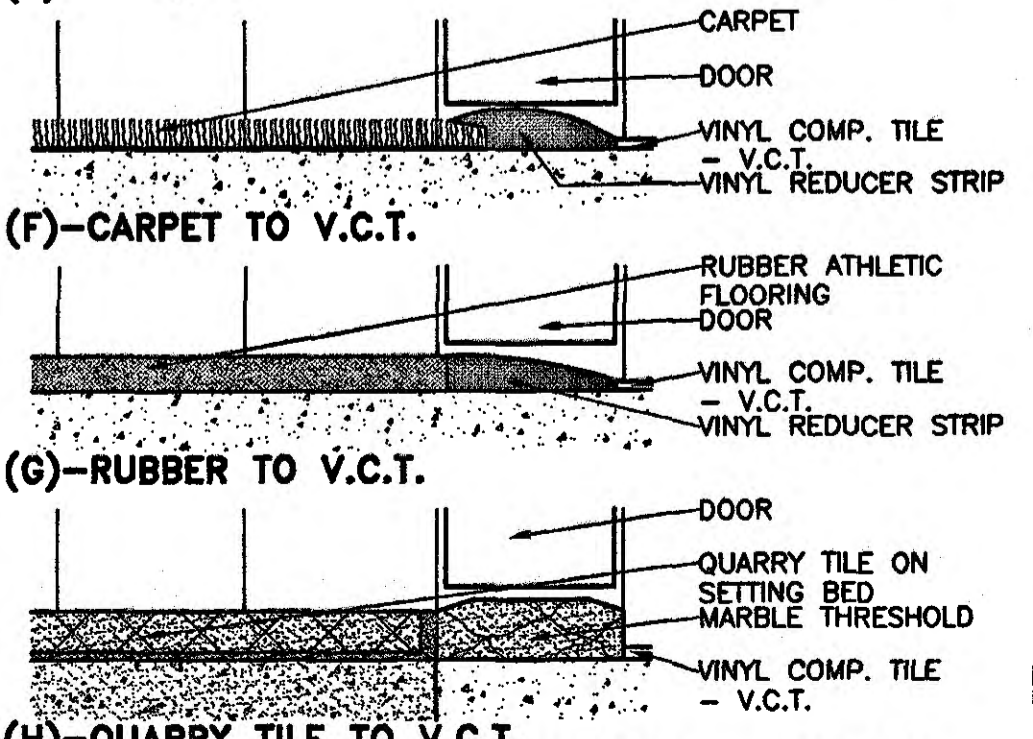
**19 DOOR DETAIL JAMB**  
A4.03 SCALE: 3" = 1'-0"



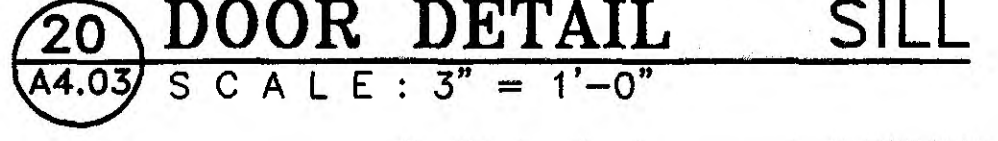
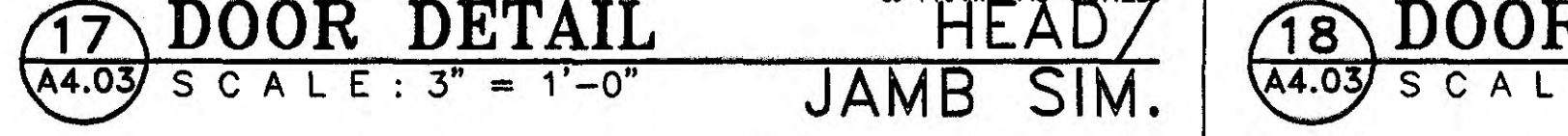
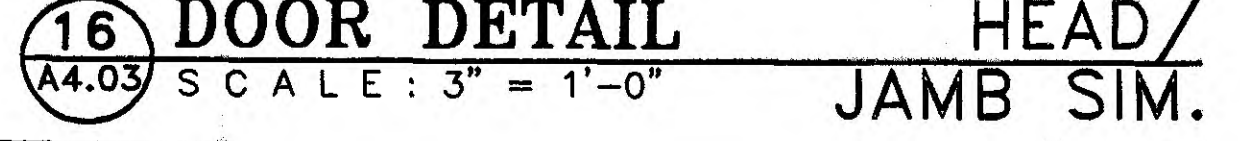
**(B) WOOD TO CONCRETE**



**20 DOOR DETAIL SILL**  
A4.03 SCALE: 3" = 1'-0"



**(C) WOOD TO V.C.T.**

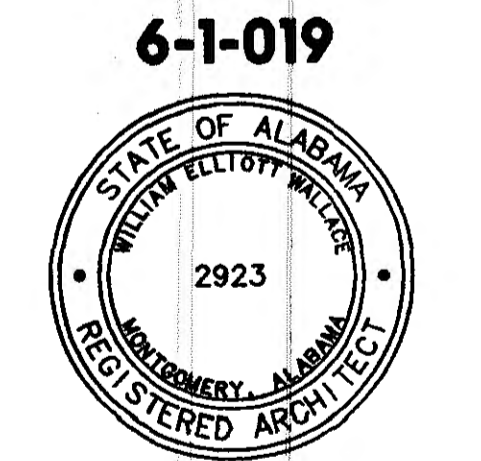


**(H) QUARRY TILE TO V.C.T. DOOR DETAIL TYP. THRESHOLDS**  
A4.03 SCALE: 6" = 1'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
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Borden & Morris Consulting Engineers, Inc.  
100 South Perry Street Montgomery, Alabama 36104  
Phone: (334) 288-0329

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6-1-019

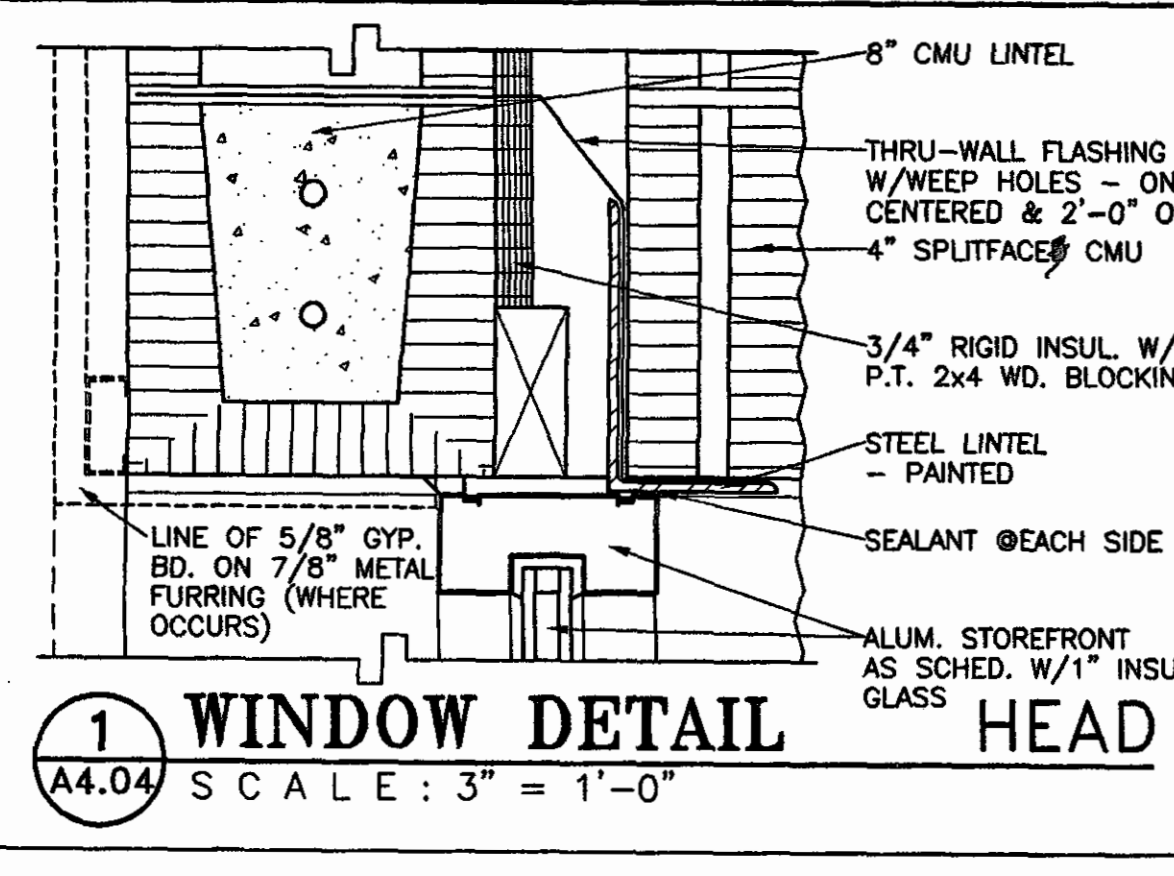


Issue	date
Design Development	08/10/01
FINAL	08/17/01

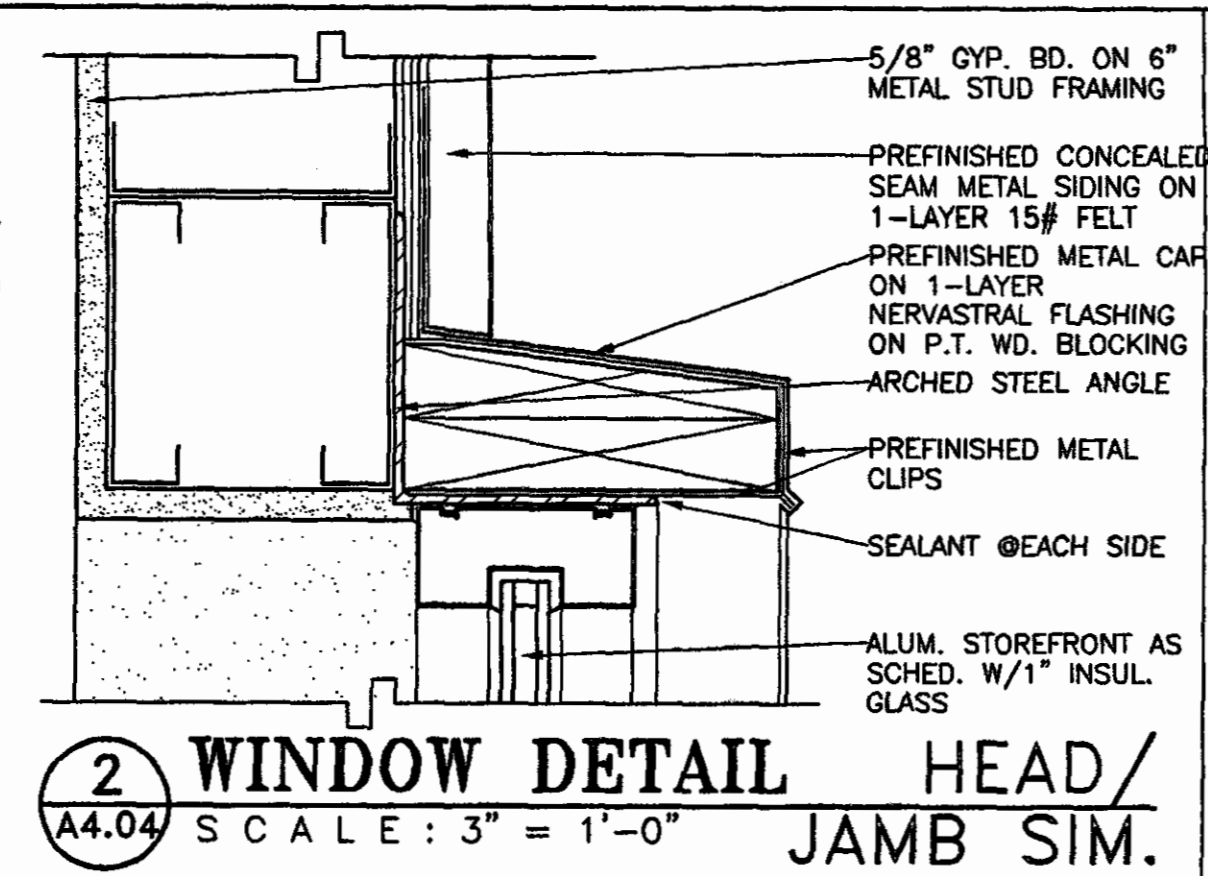
drawn by: CGB, CED  
**DOOR DETAILS**

95% SUBMITTAL  
**A4.03**  
sheet 00 of 00

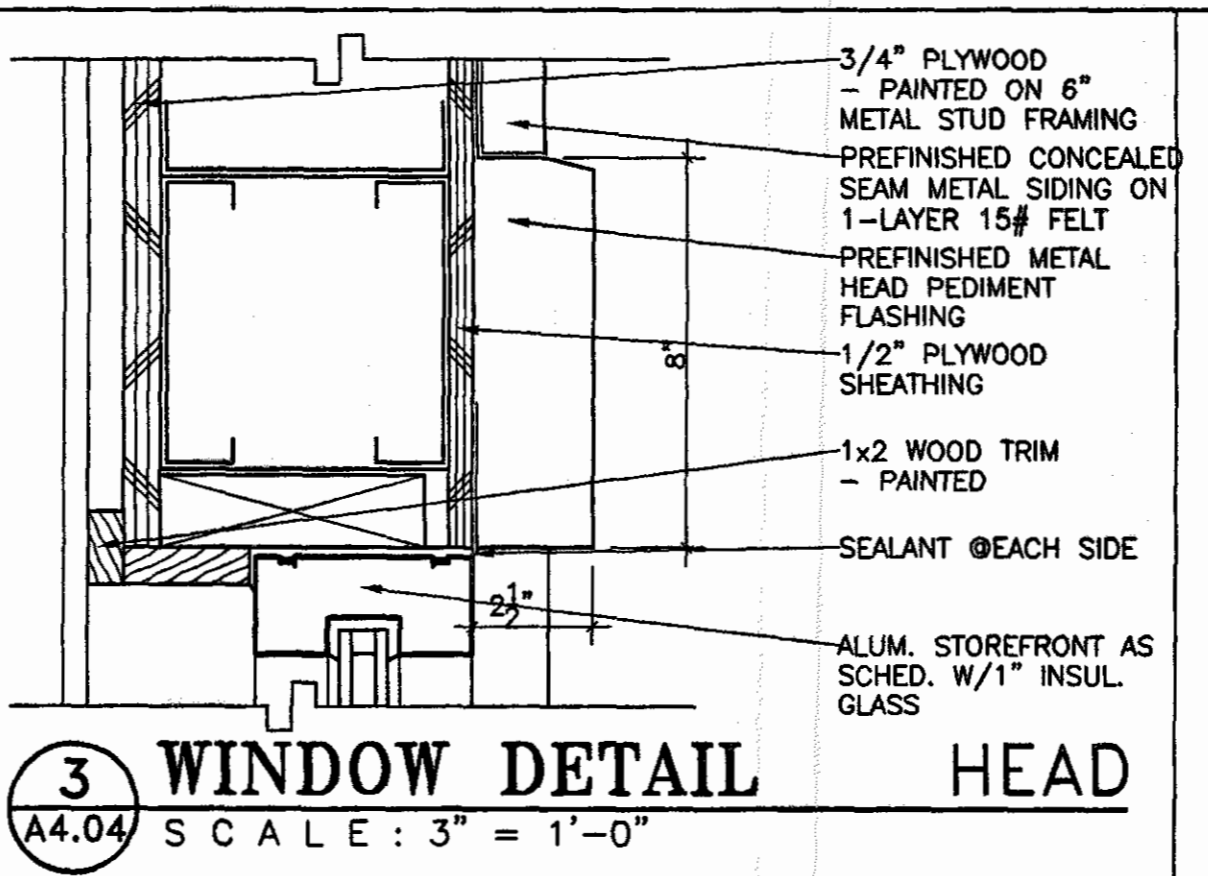
2001 Projects 6-1-019 RCD Orange Beach Rec Park Construction drawings A4.03 Door Details.dwg Fri, Sep 14, 05:54:05 2001



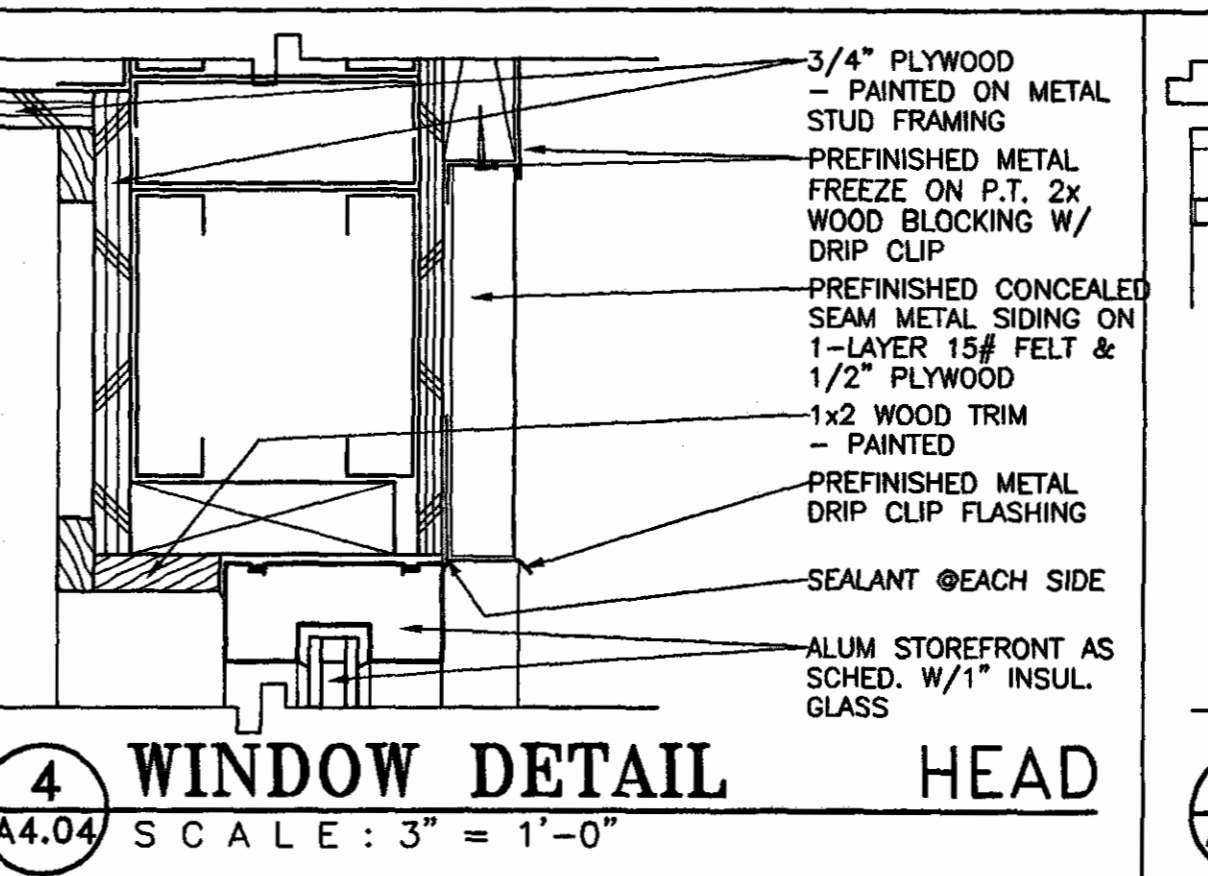
**1 WINDOW DETAIL HEAD**  
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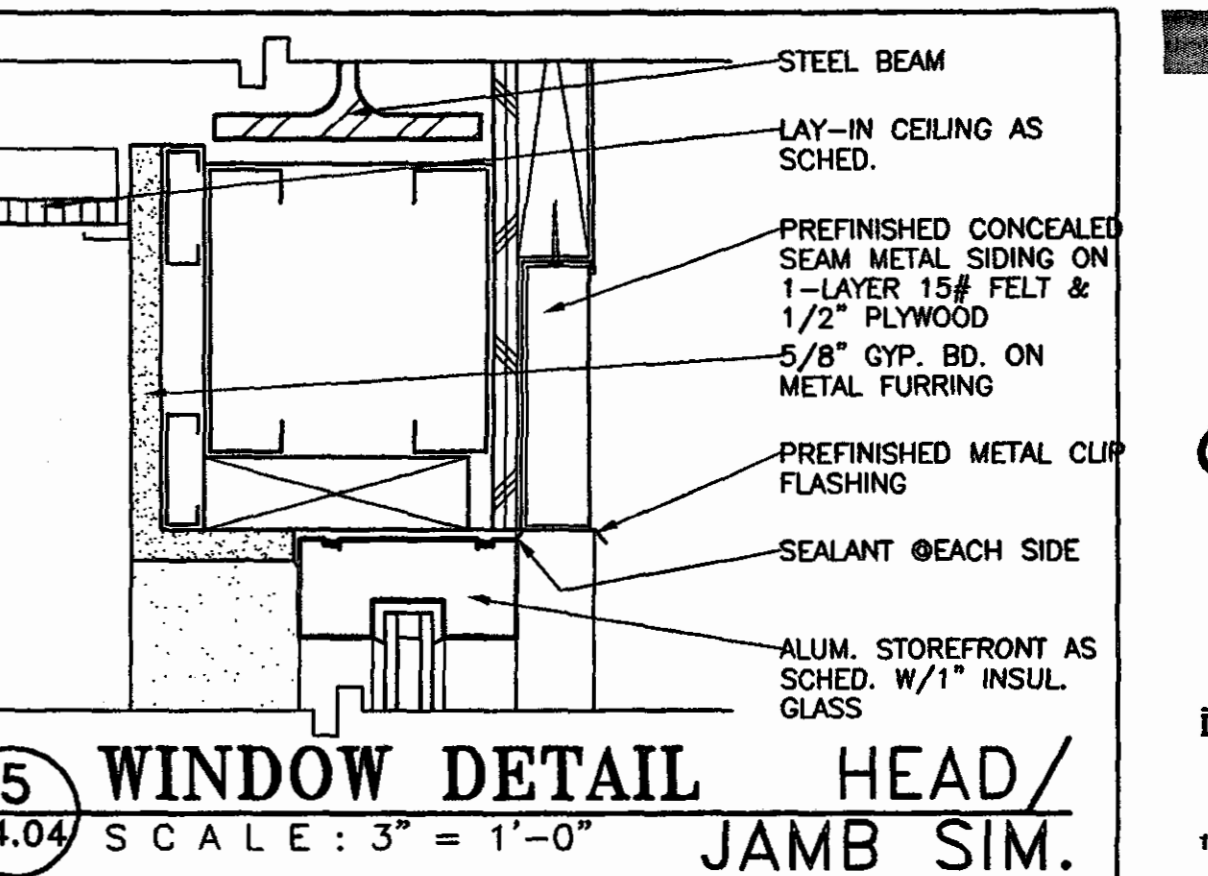
**2 WINDOW DETAIL HEAD/JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"



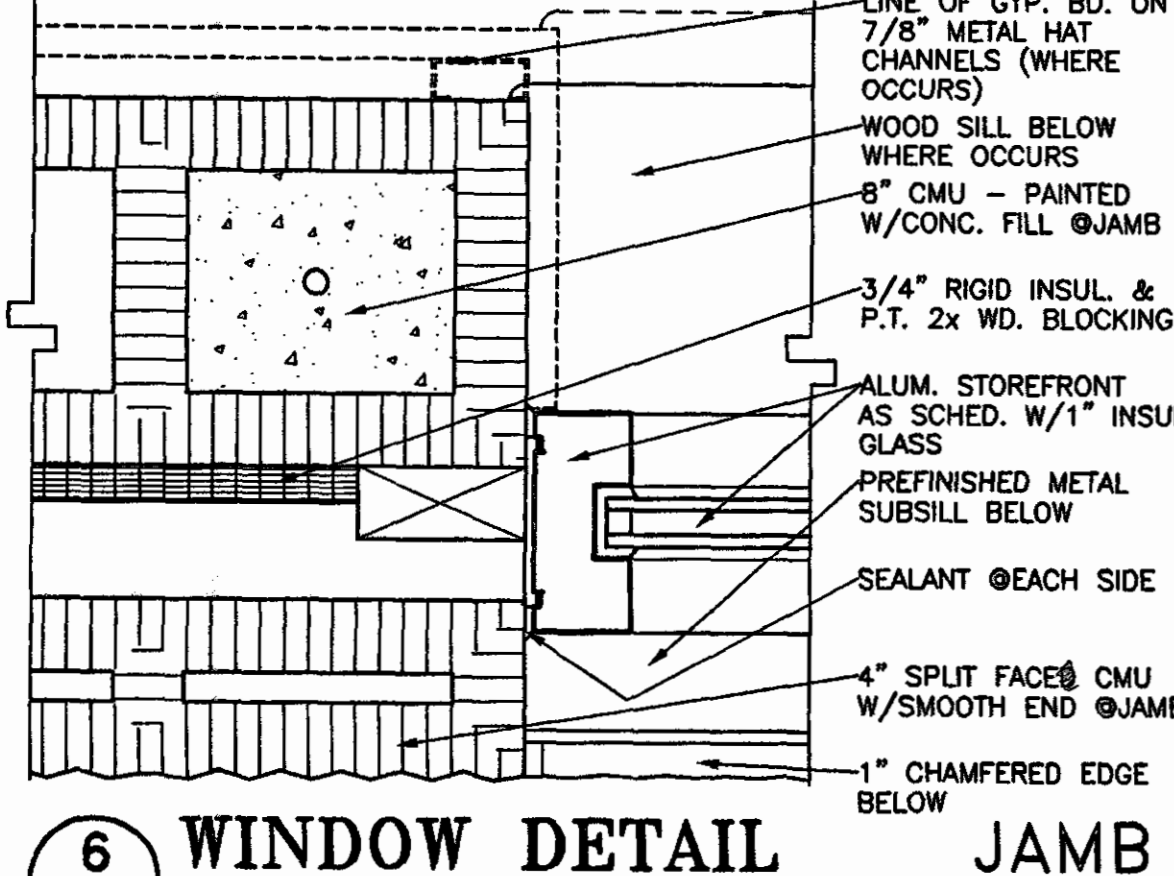
**3 WINDOW DETAIL HEAD**  
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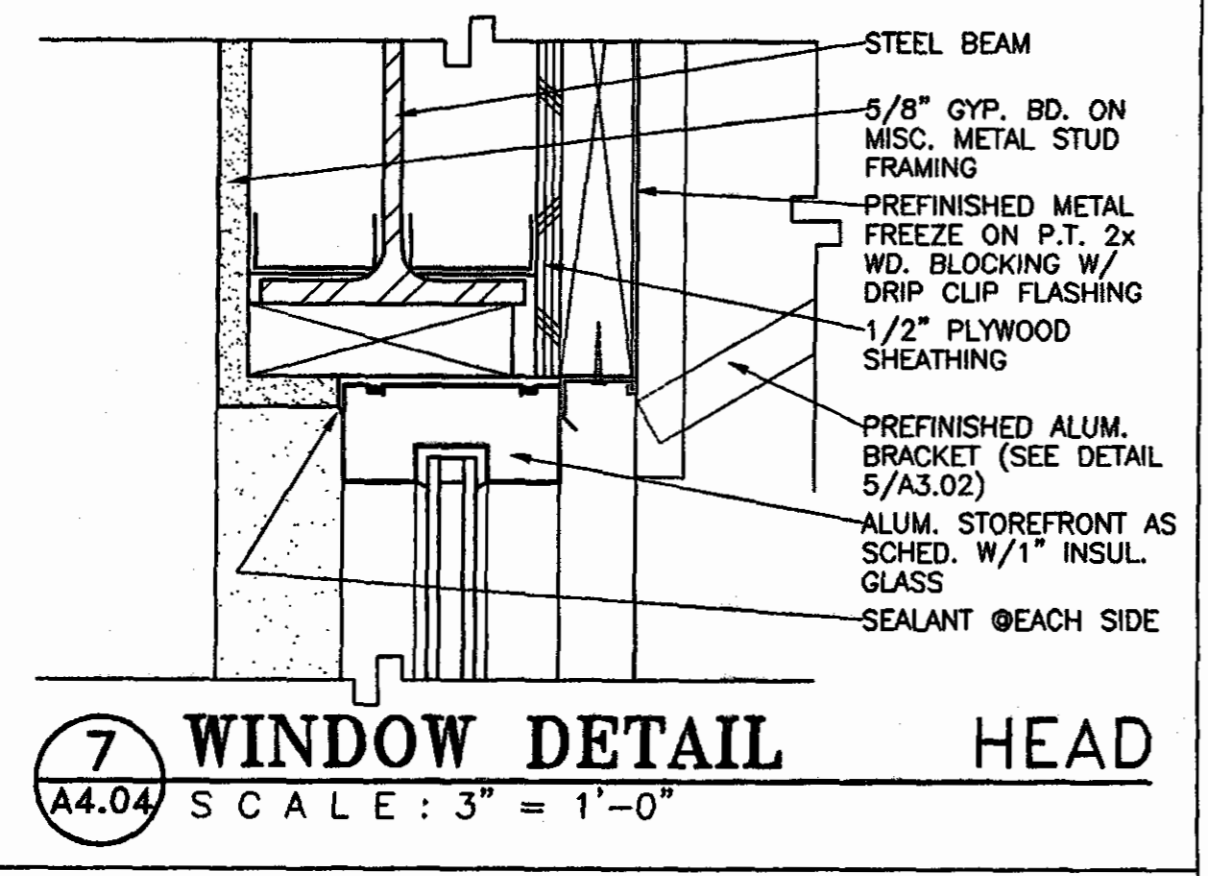
**4 WINDOW DETAIL HEAD**  
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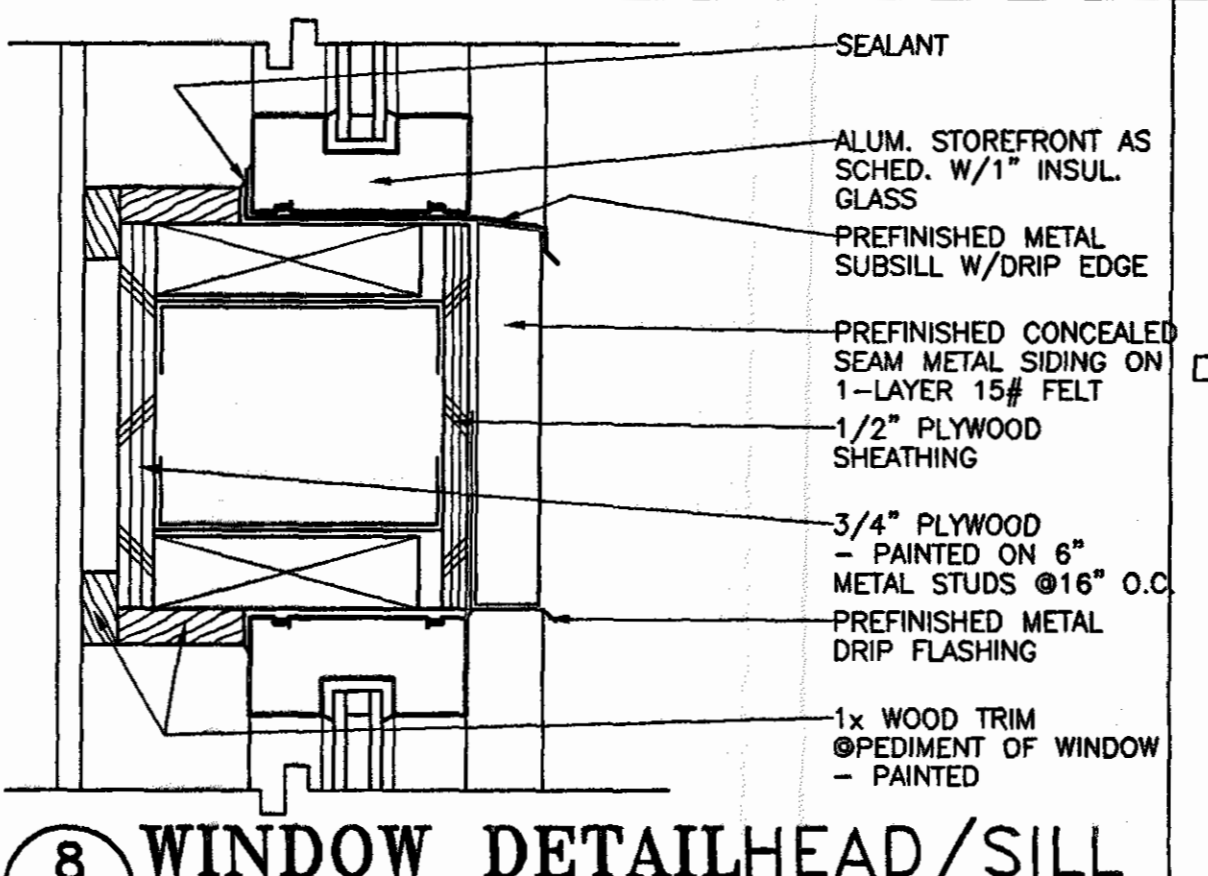
**5 WINDOW DETAIL HEAD/JAMB SIM.**  
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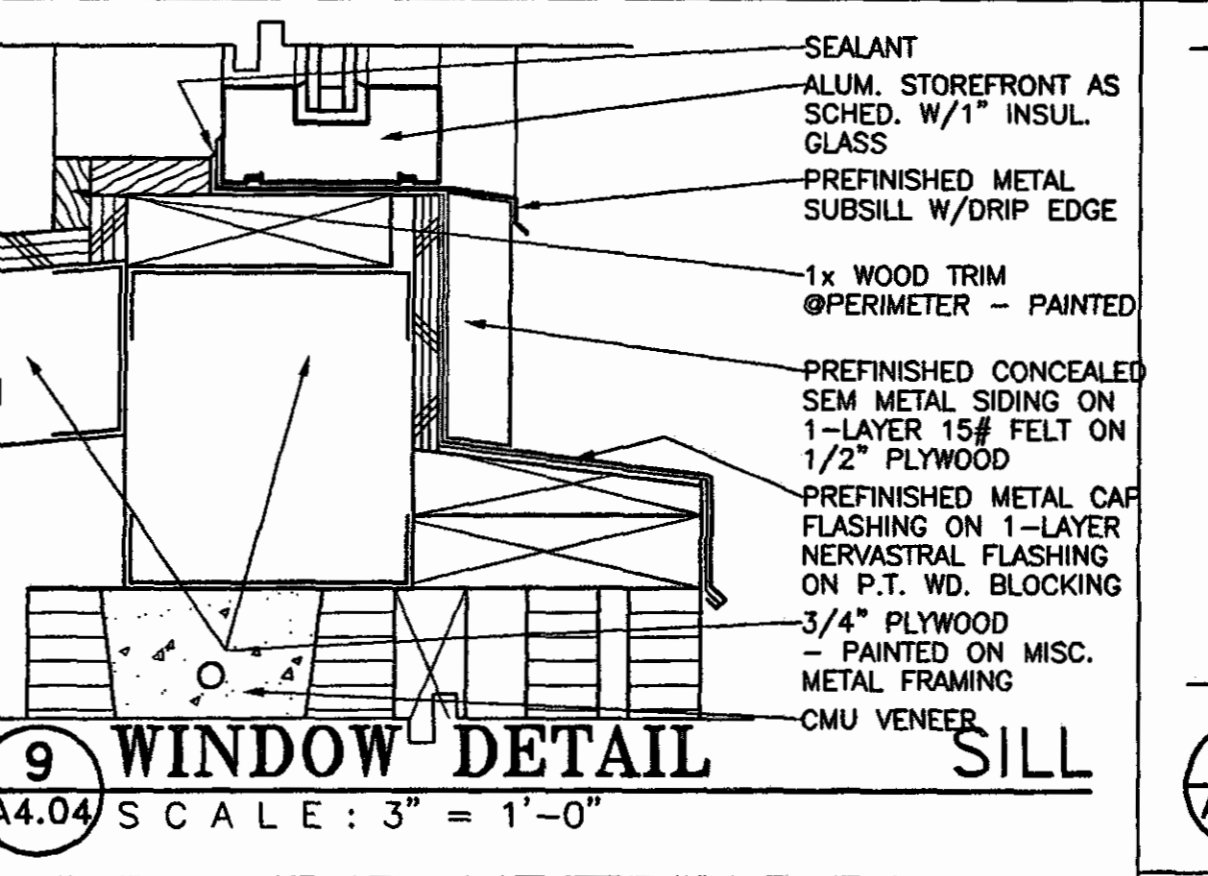
**6 WINDOW DETAIL JAMB**  
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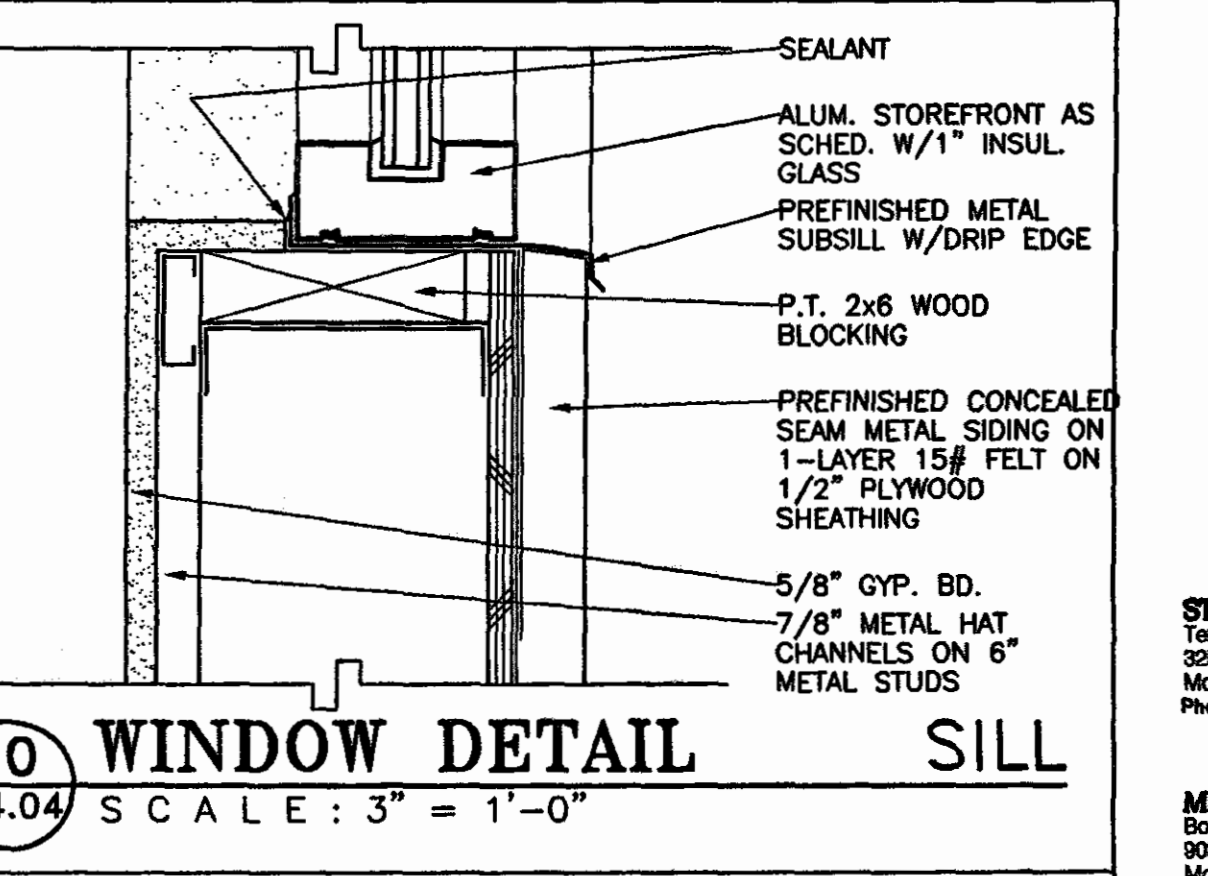
**7 WINDOW DETAIL HEAD**  
A4.04 SCALE: 3" = 1'-0"



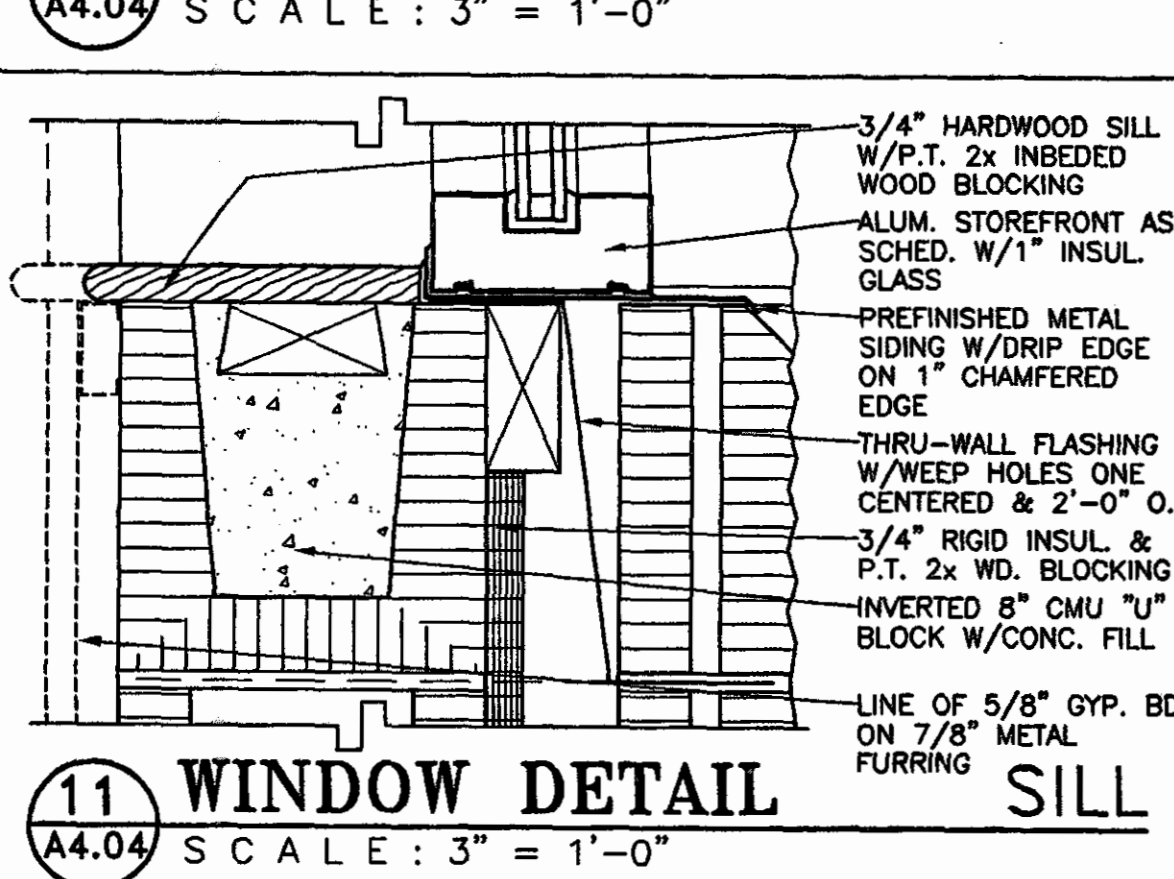
**8 WINDOW DETAIL HEAD/SILL JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"



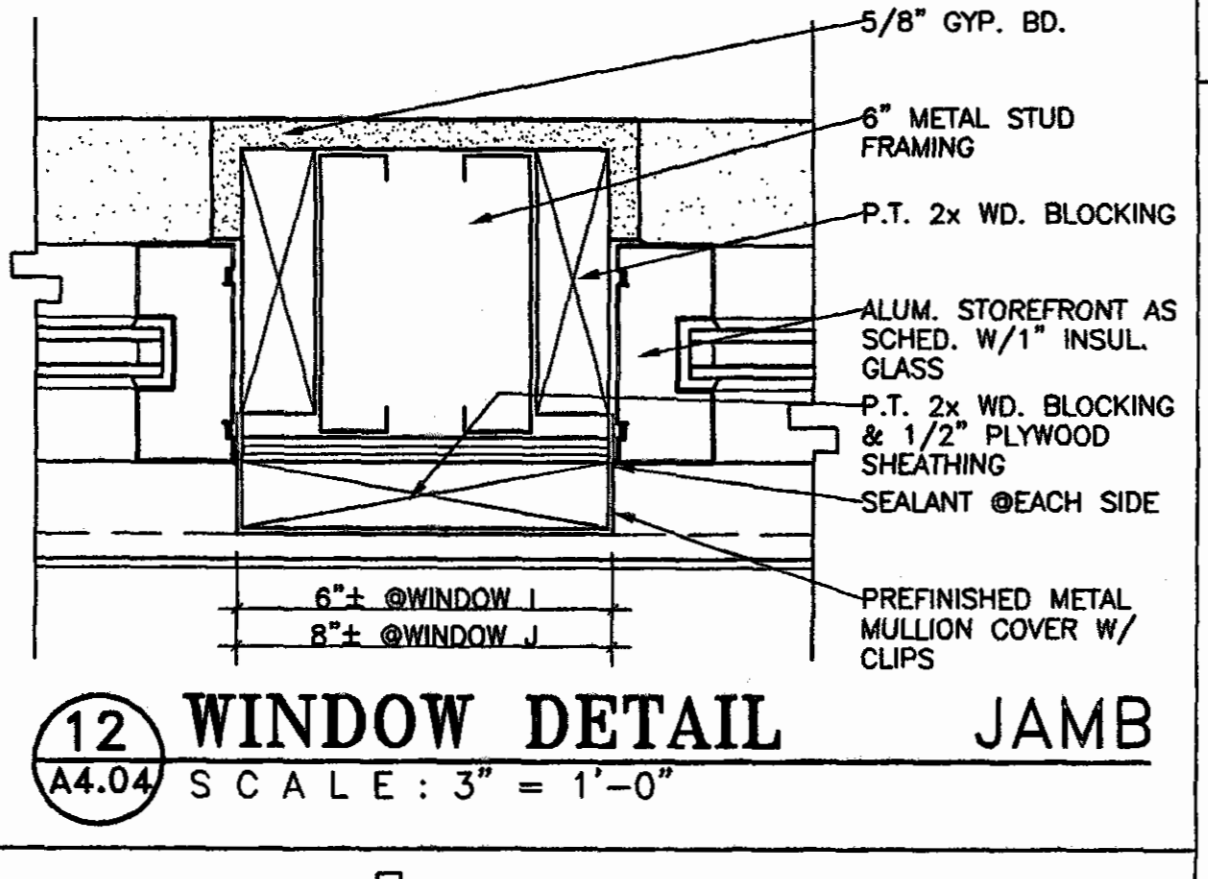
**9 WINDOW DETAIL SILL**  
A4.04 SCALE: 3" = 1'-0"



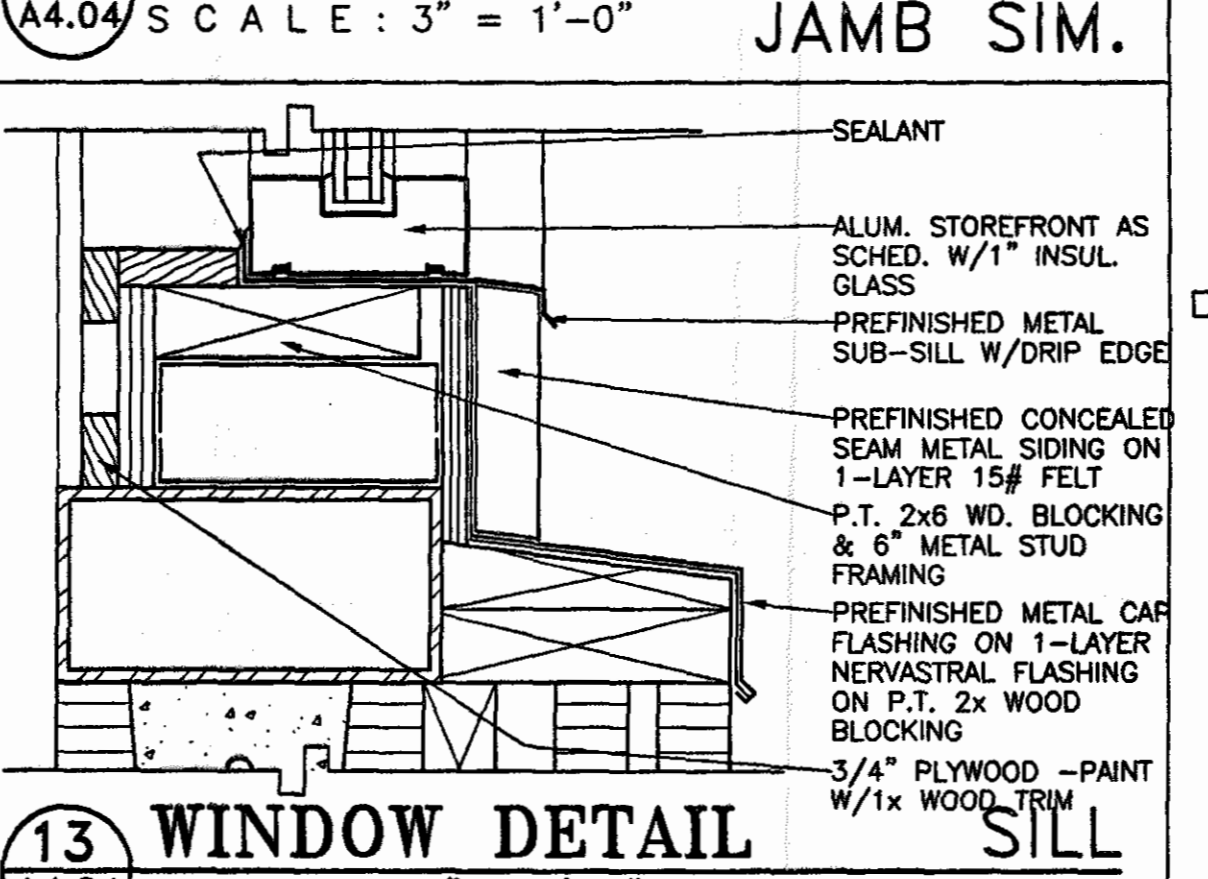
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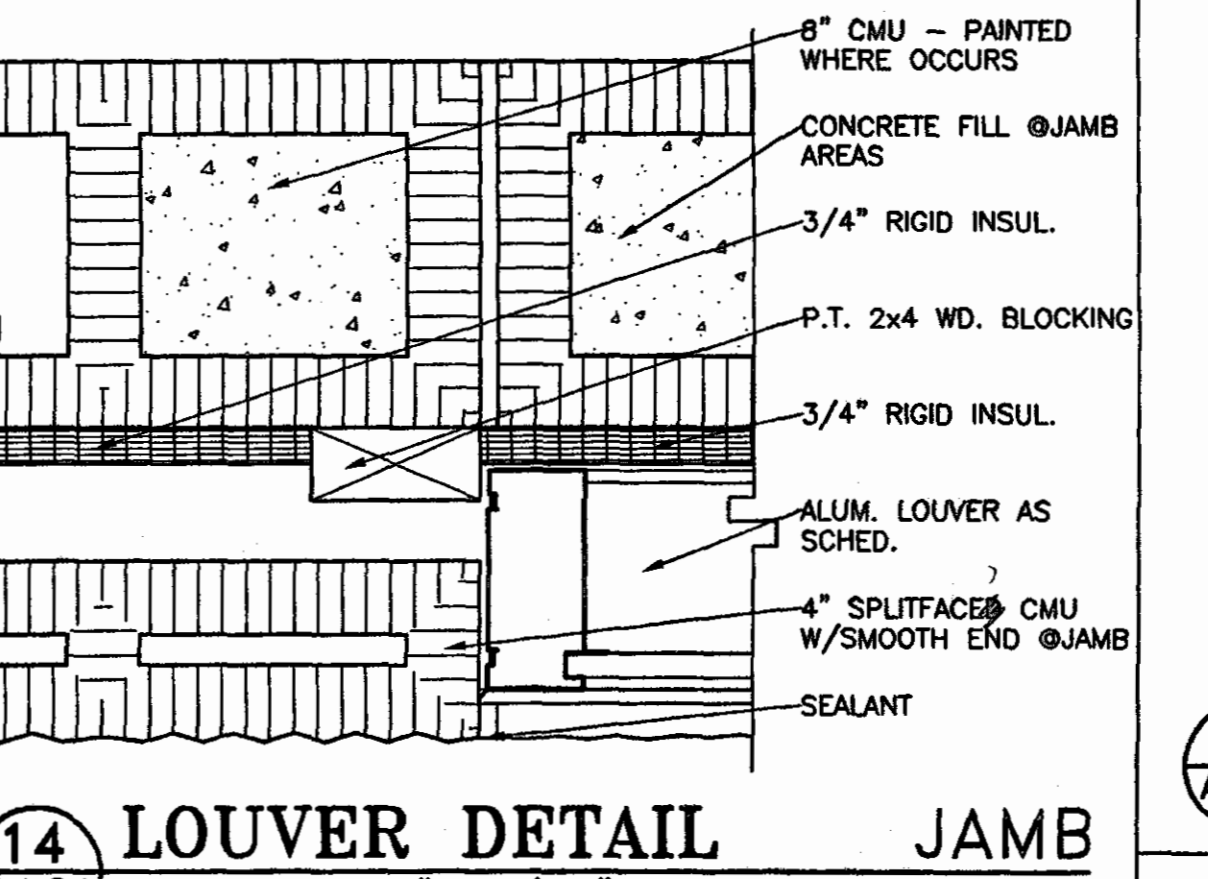
**11 WINDOW DETAIL SILL**  
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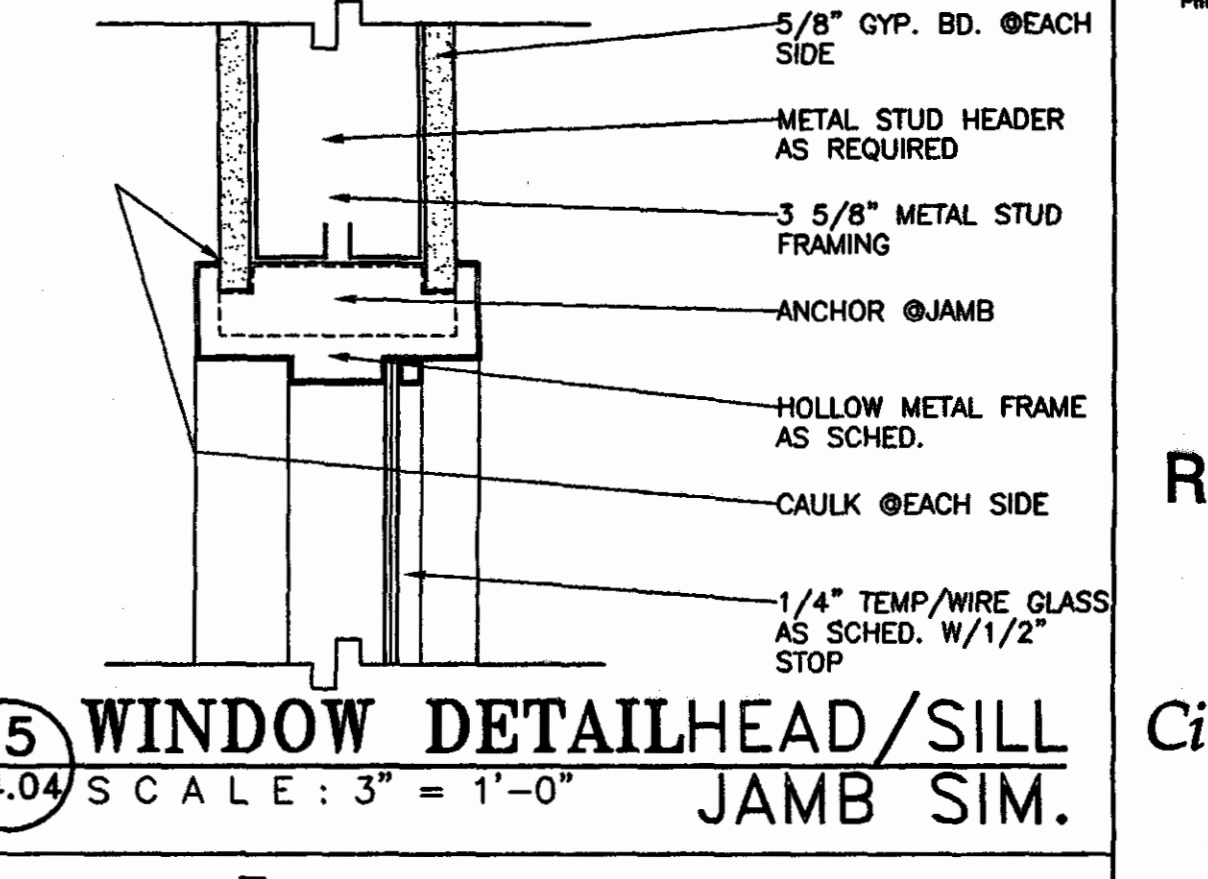
**12 WINDOW DETAIL JAMB**  
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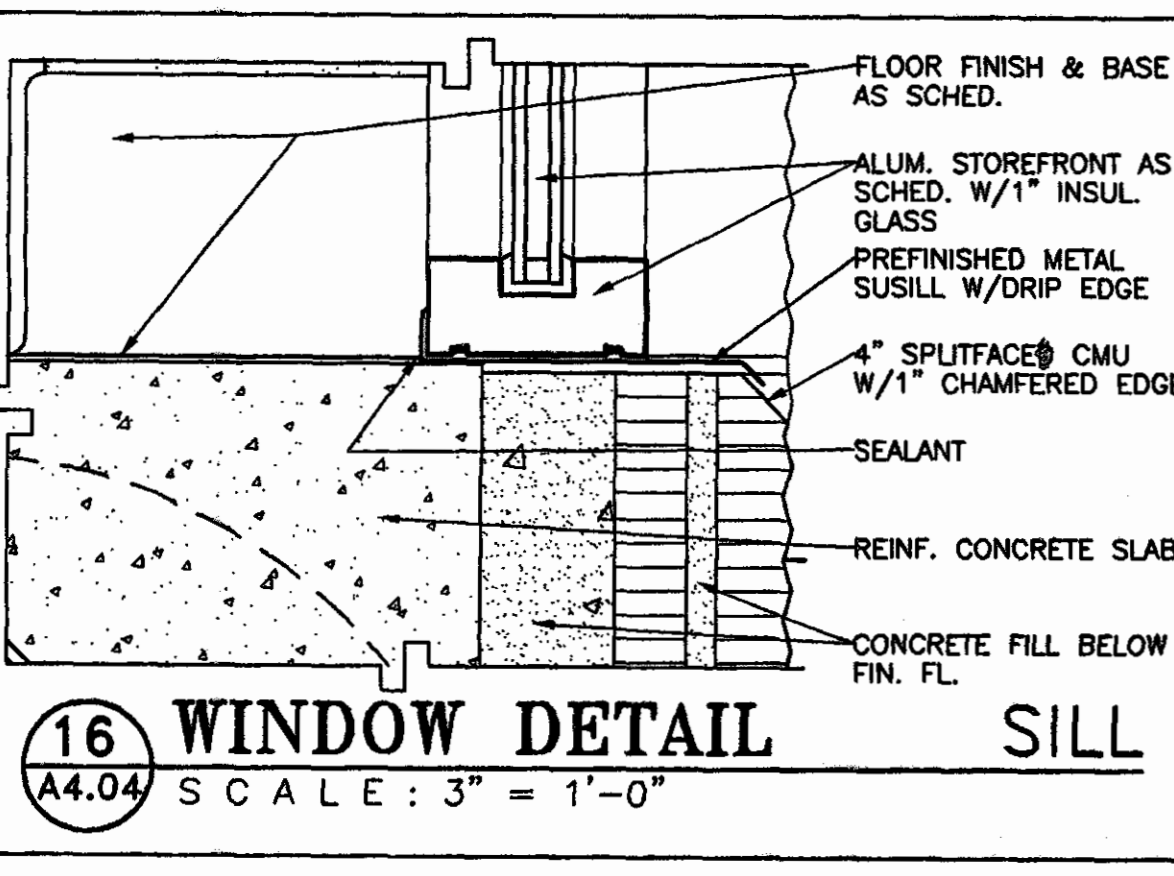
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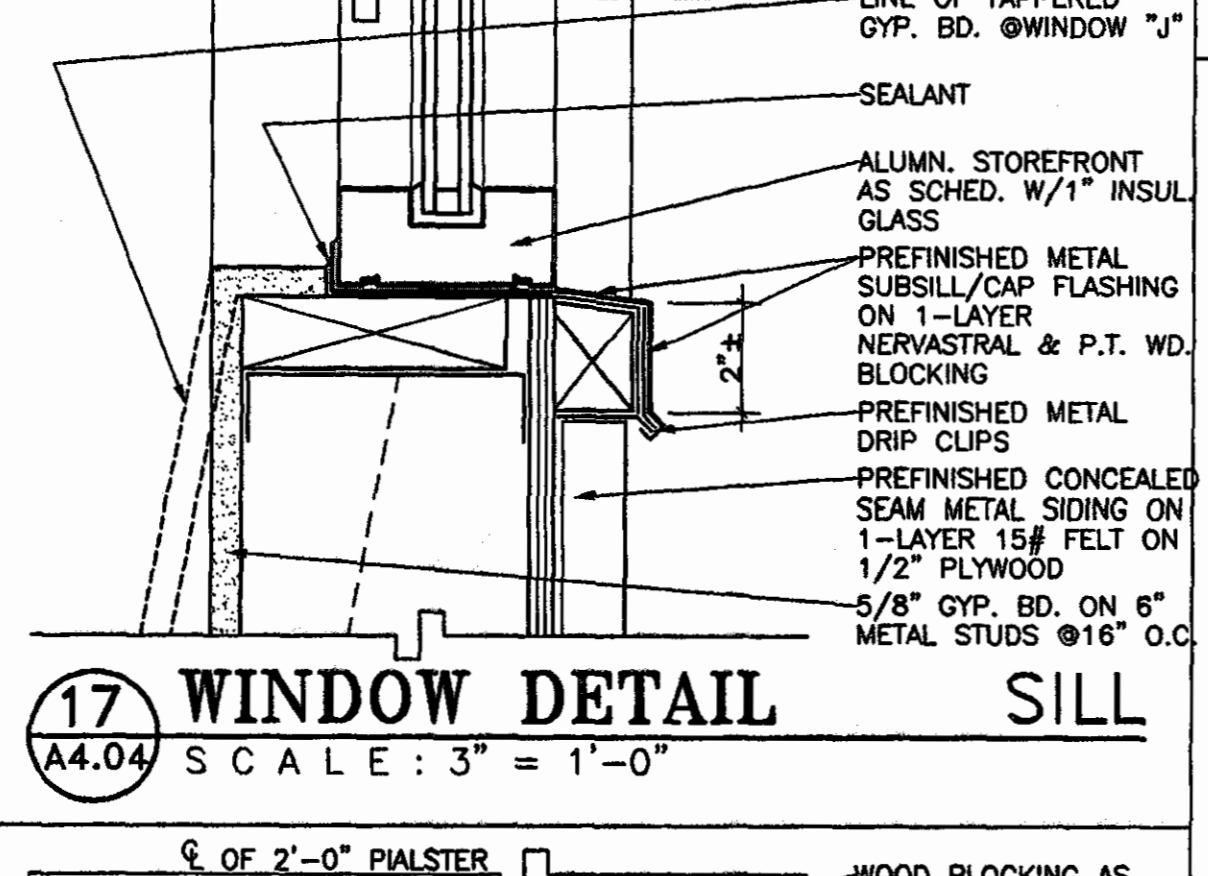
**14 LOUVER DETAIL JAMB**  
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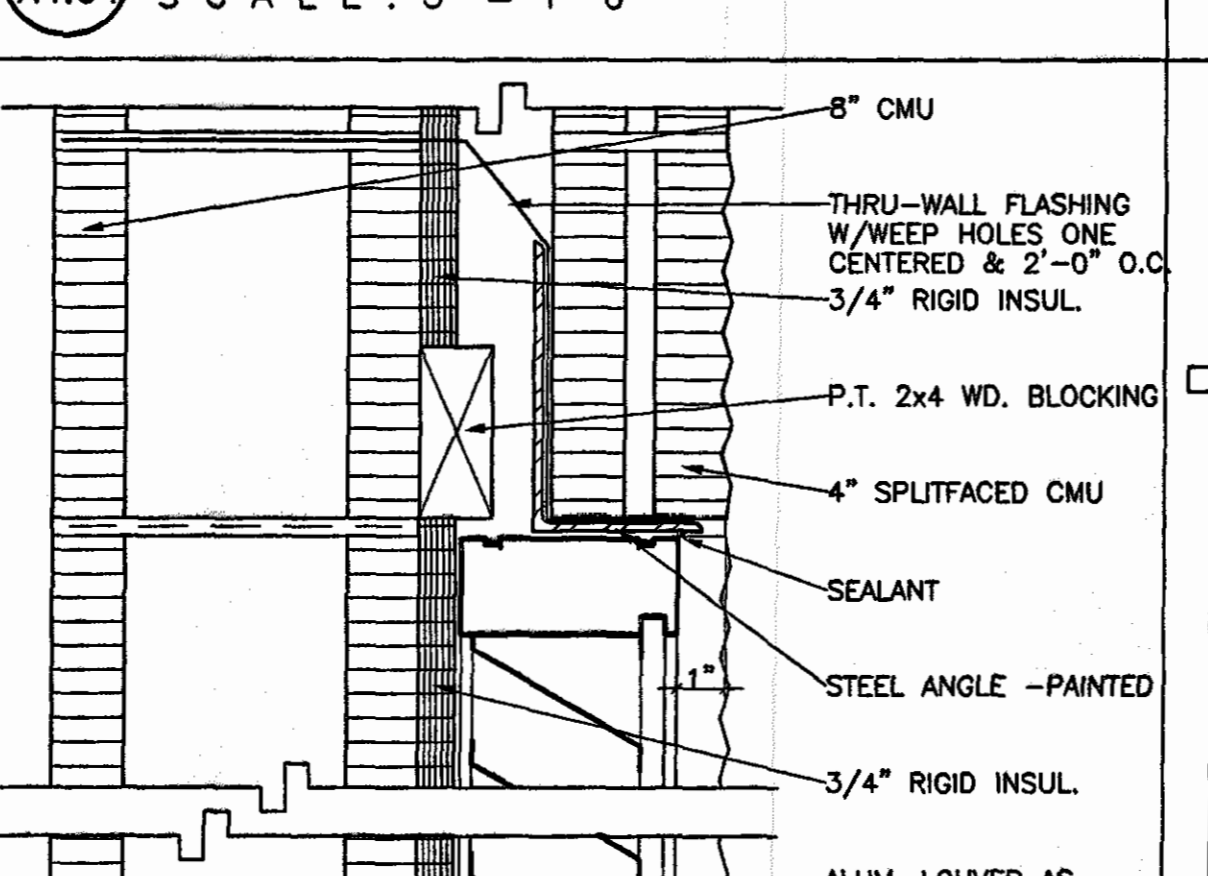
**15 WINDOW DETAIL HEAD/SILL JAMB SIM.**  
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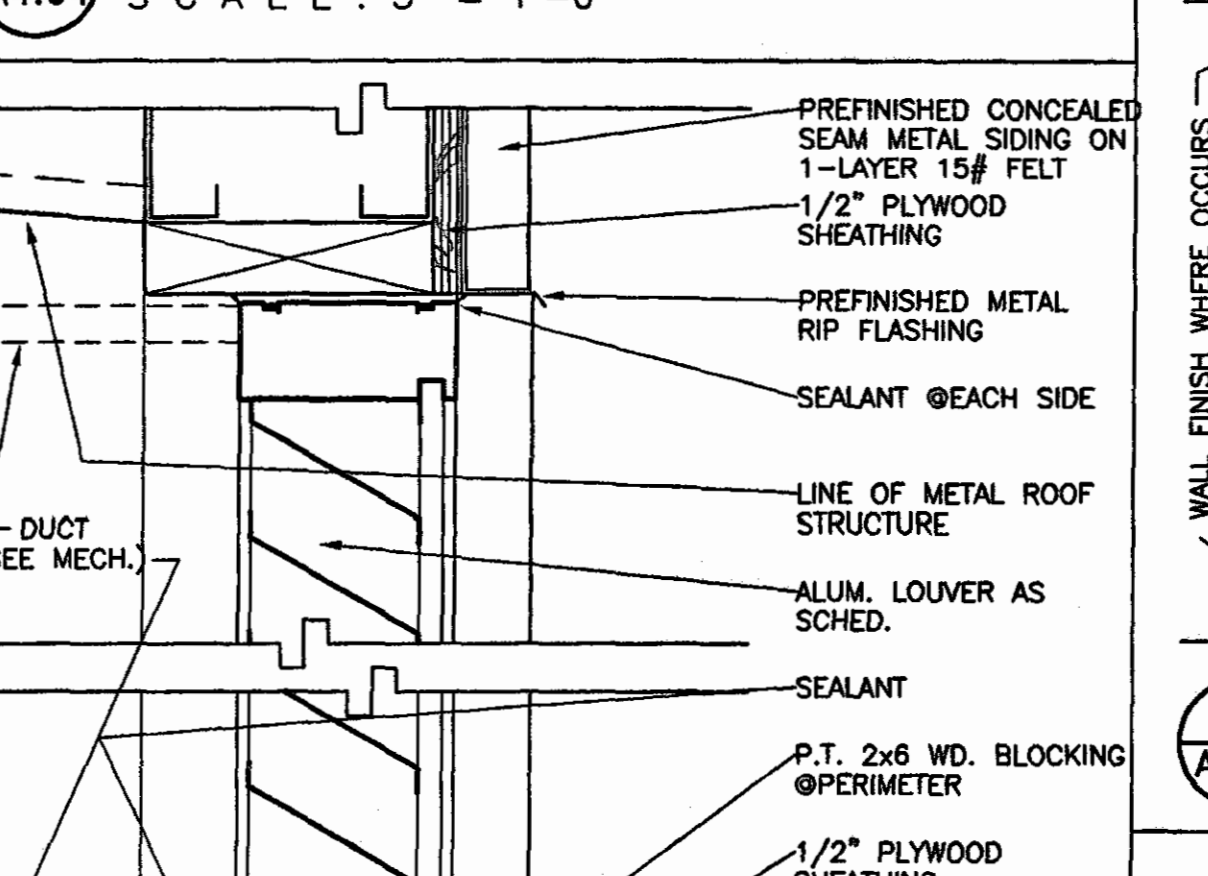
**16 WINDOW DETAIL SILL**  
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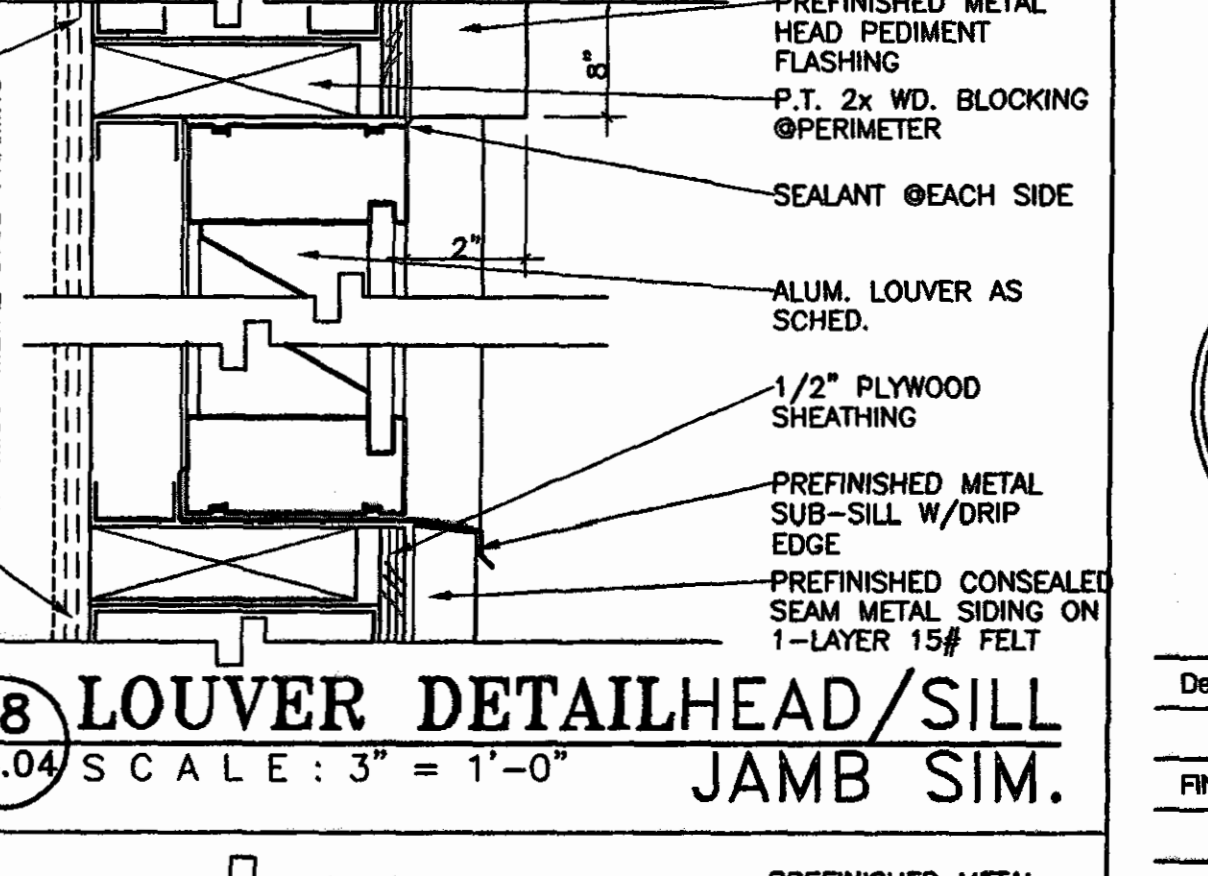
**17 WINDOW DETAIL SILL**  
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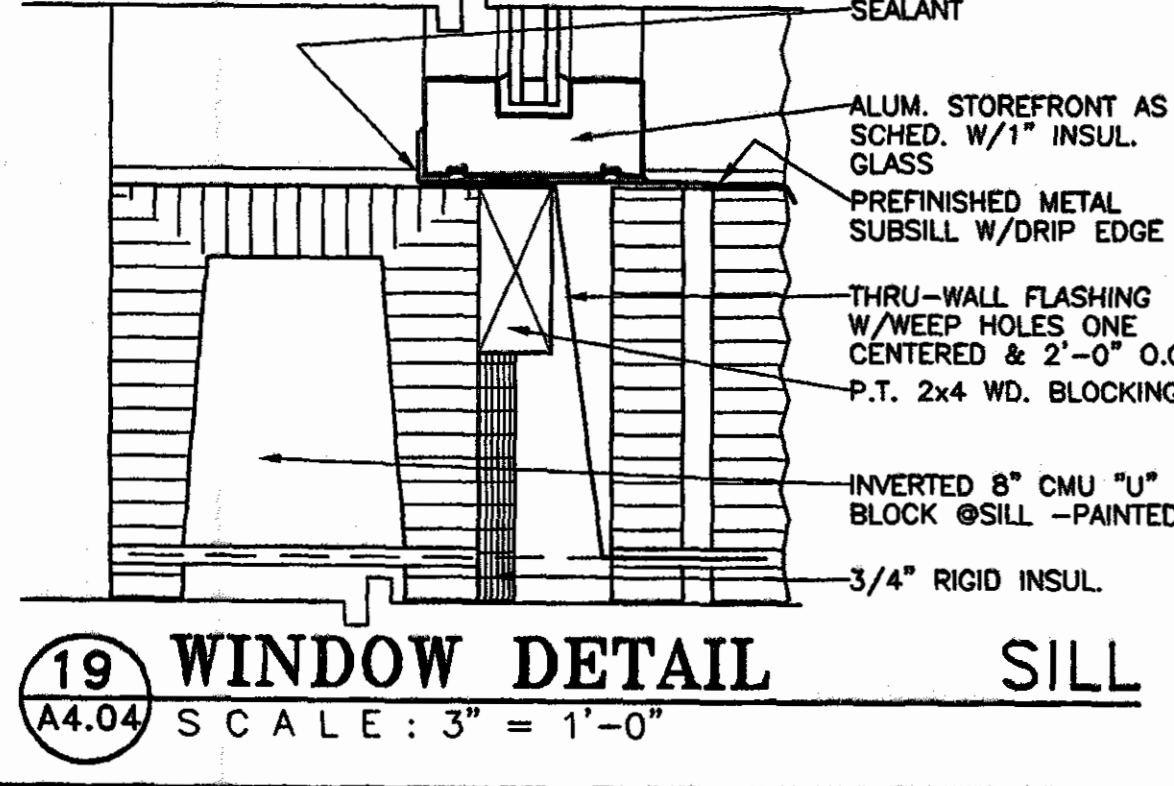
**18 LOUVER DETAIL JAMB**  
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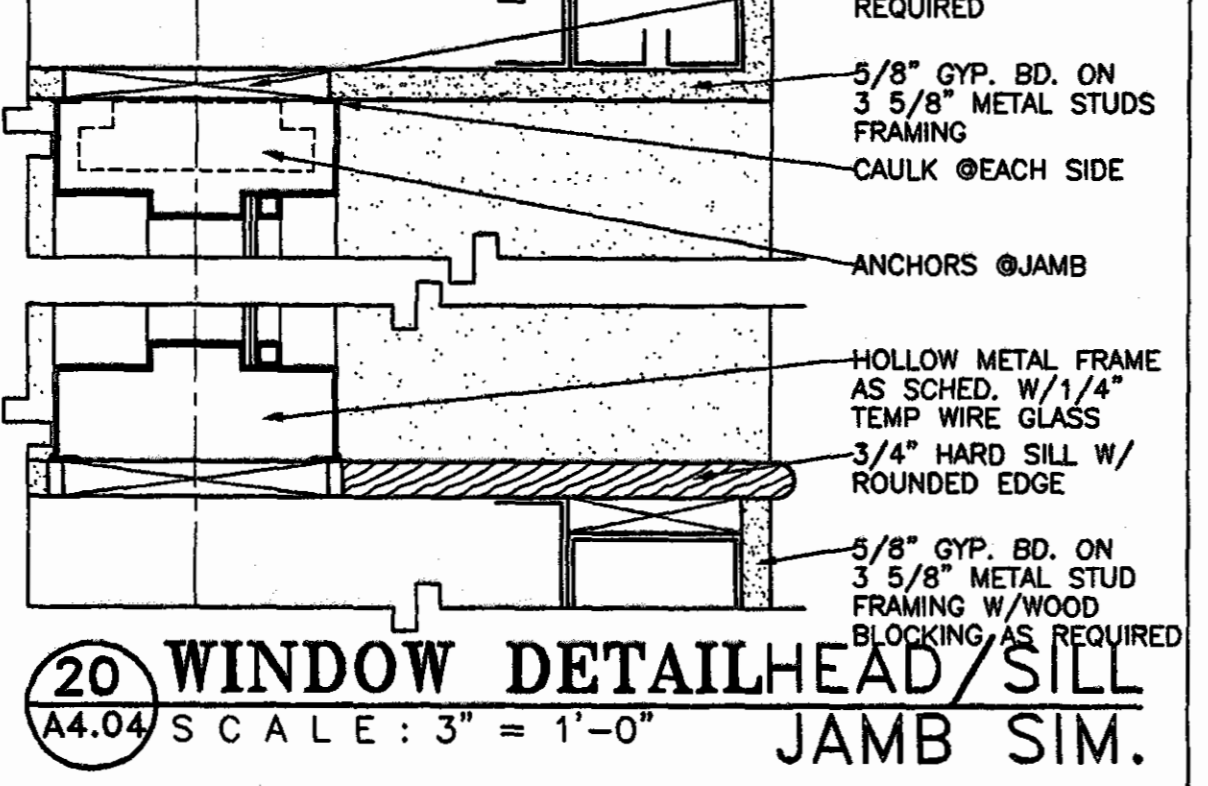
**19 LOUVER DETAIL HEAD/SILL JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"



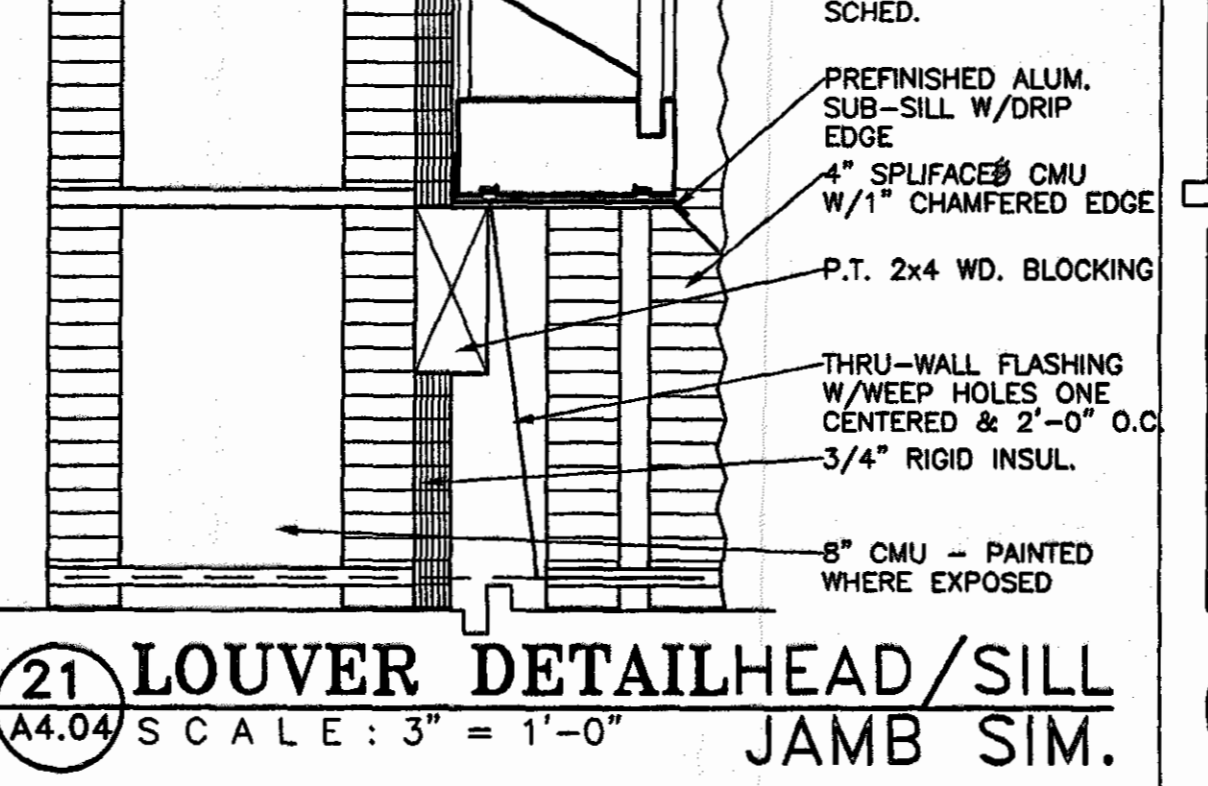
**20 LOUVER DETAIL HEAD/SILL JAMB SIM.**  
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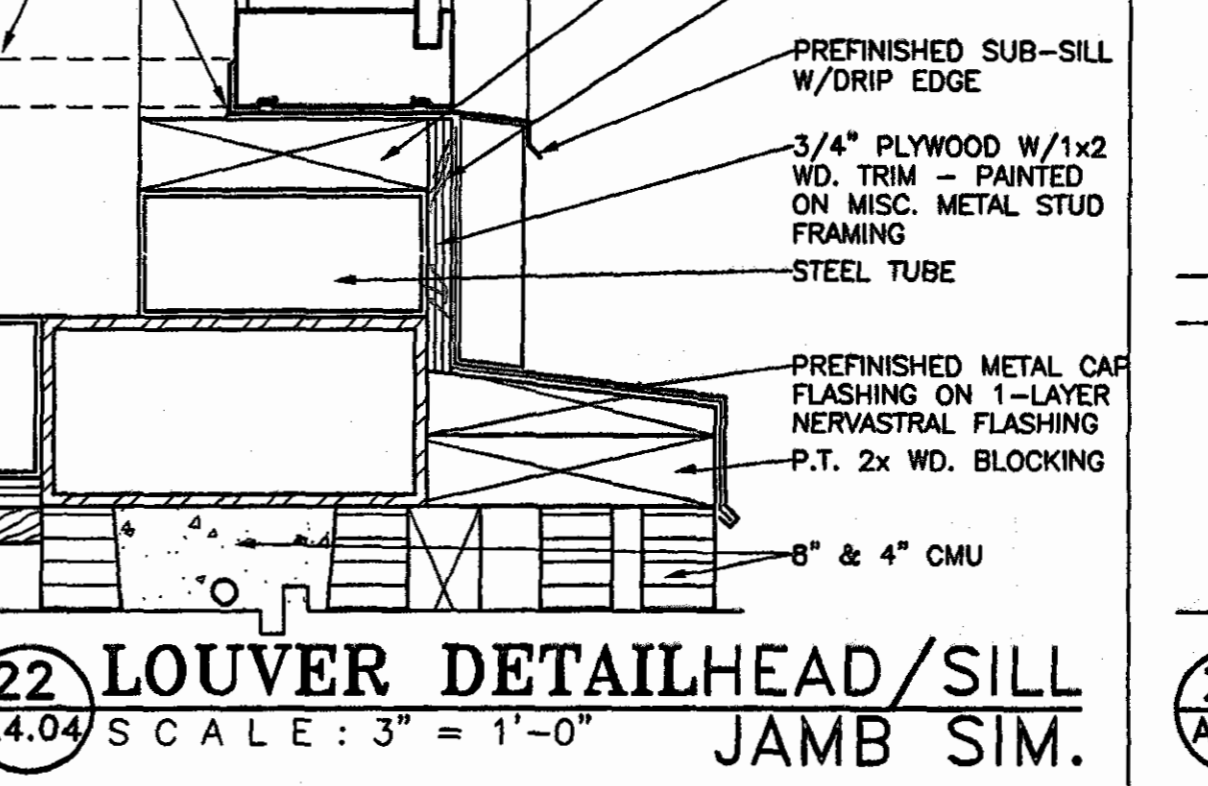
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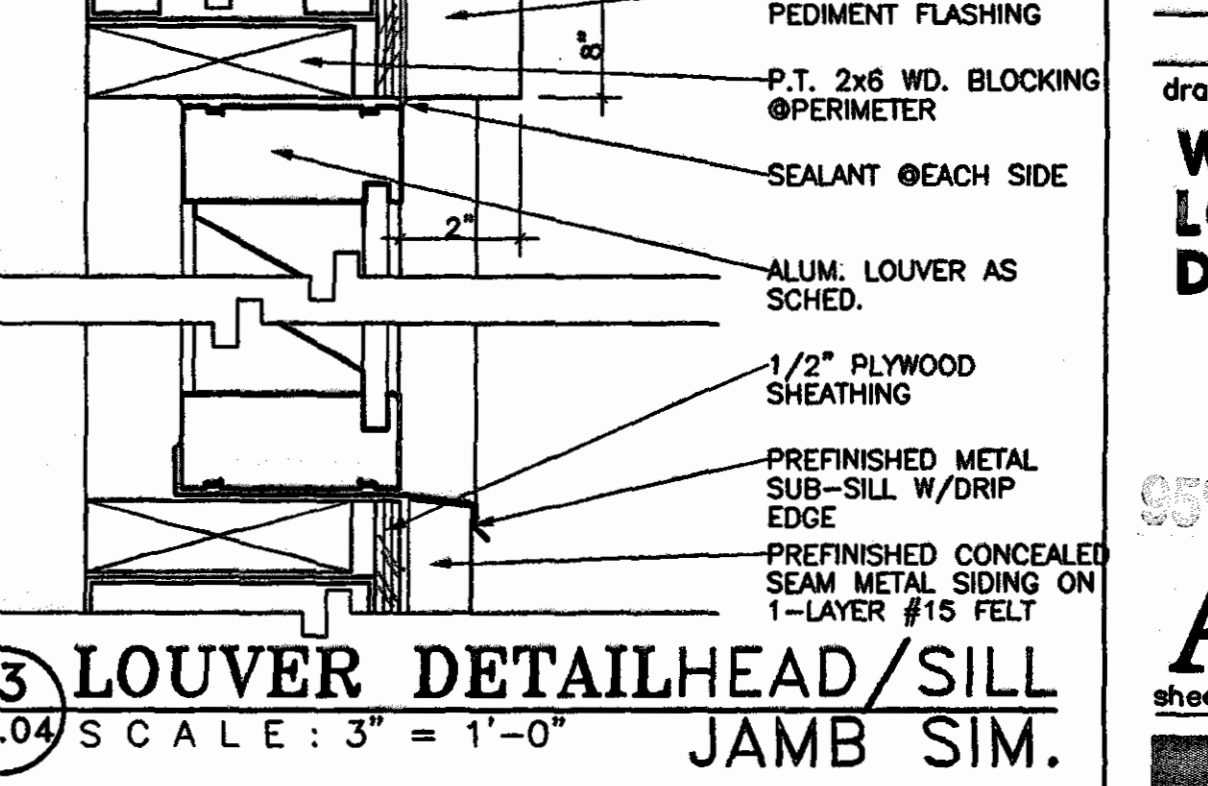
**20 WINDOW DETAIL HEAD/SILL JAMB SIM.**  
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**21 LOUVER DETAIL HEAD/SILL JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"



**22 LOUVER DETAIL HEAD/SILL JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"



**23 LOUVER DETAIL HEAD/SILL JAMB SIM.**  
A4.04 SCALE: 3" = 1'-0"

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FOR THE  
**City of Orange Beach**  
alabama

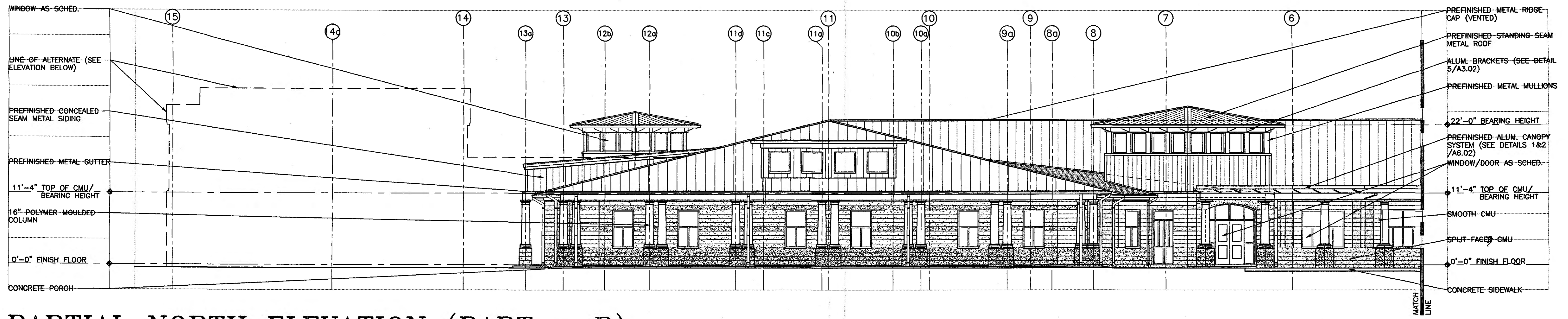
6-1-019  
STATE OF ALABAMA  
WILLIAM ELLIOTT PRITCHER  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	08/17/01

drawn by: CGB, CED  
**WINDOW AND LOUVER DETAILS**

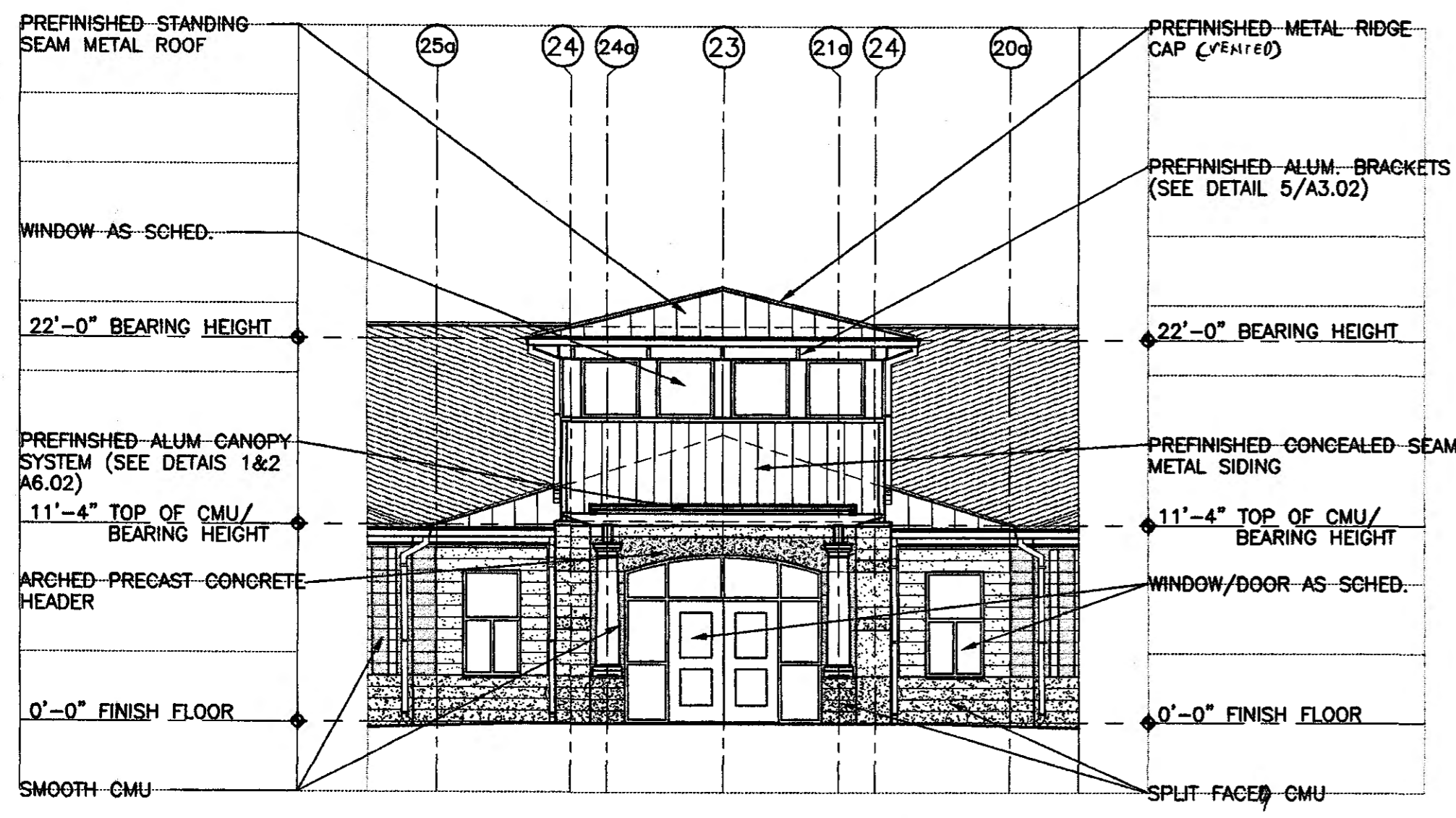
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2001 Projects 6-1-019 CED Orange Beach Rec Park Construction dgs A4.04 Window & Louver Details.dwg P1 Sep 14 16:32:06 2001



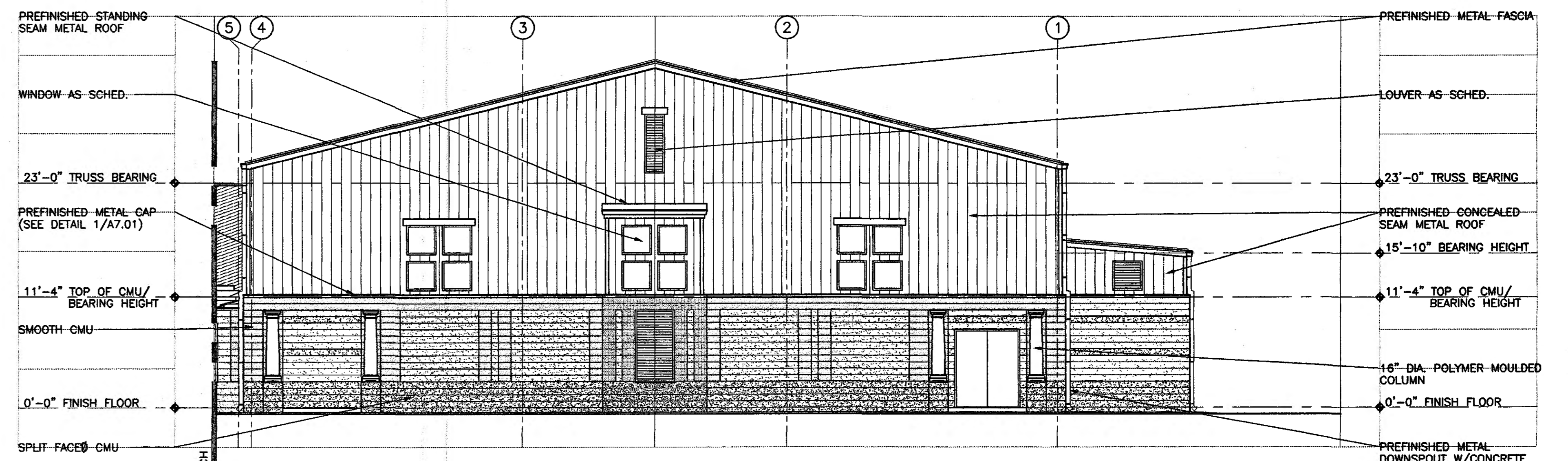
**PARTIAL NORTH ELEVATION (PART - B)**

SCALE : 1/8" = 1' - 0"



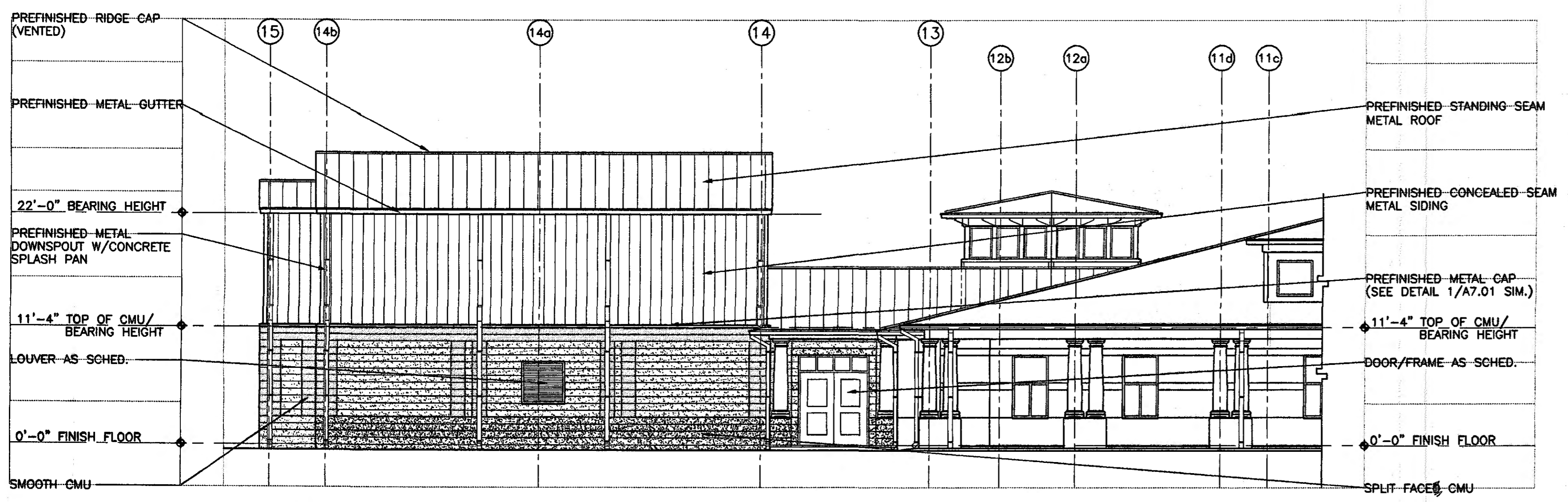
**PARTIAL NORTH-WEST ELEVATION**

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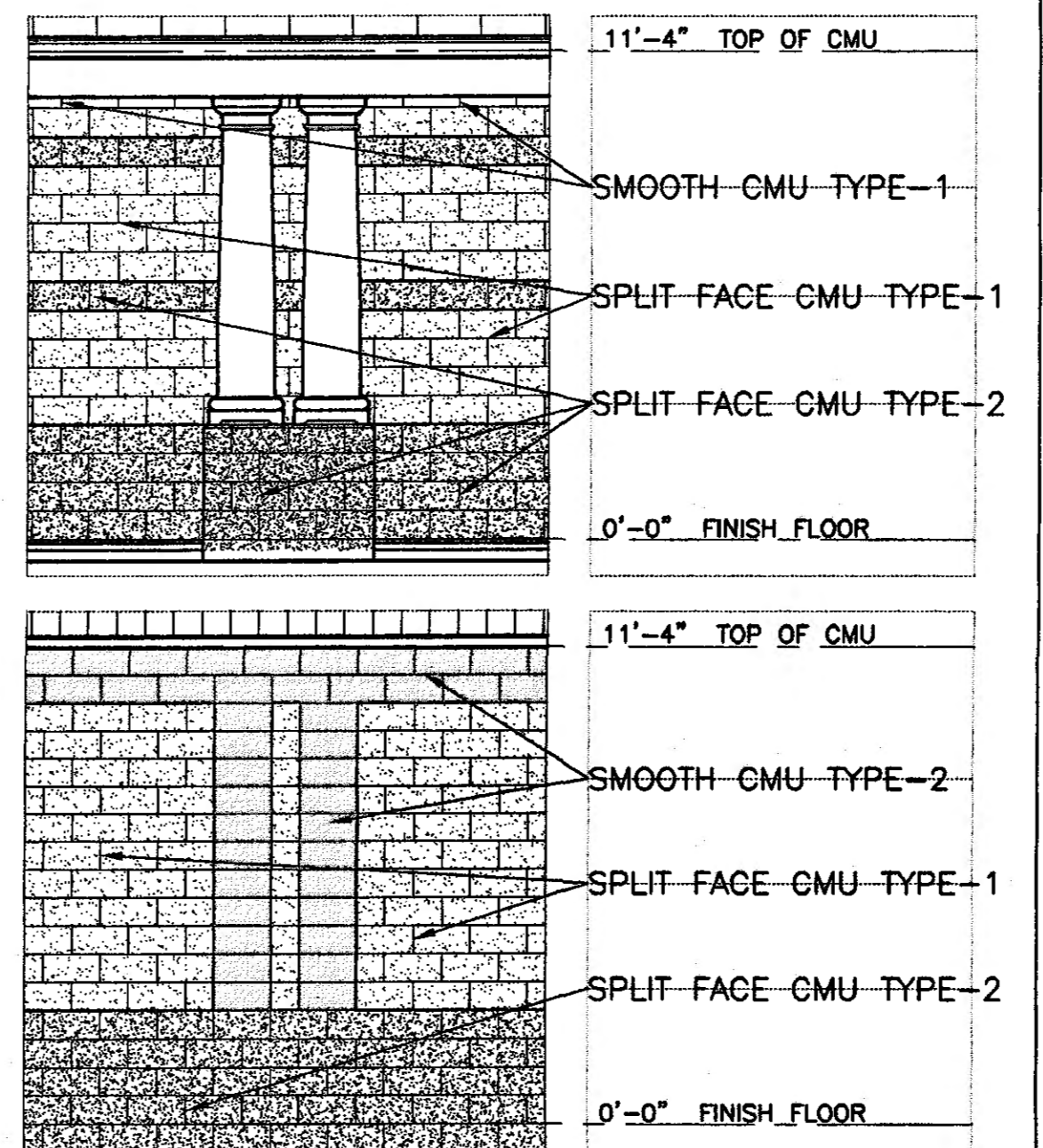
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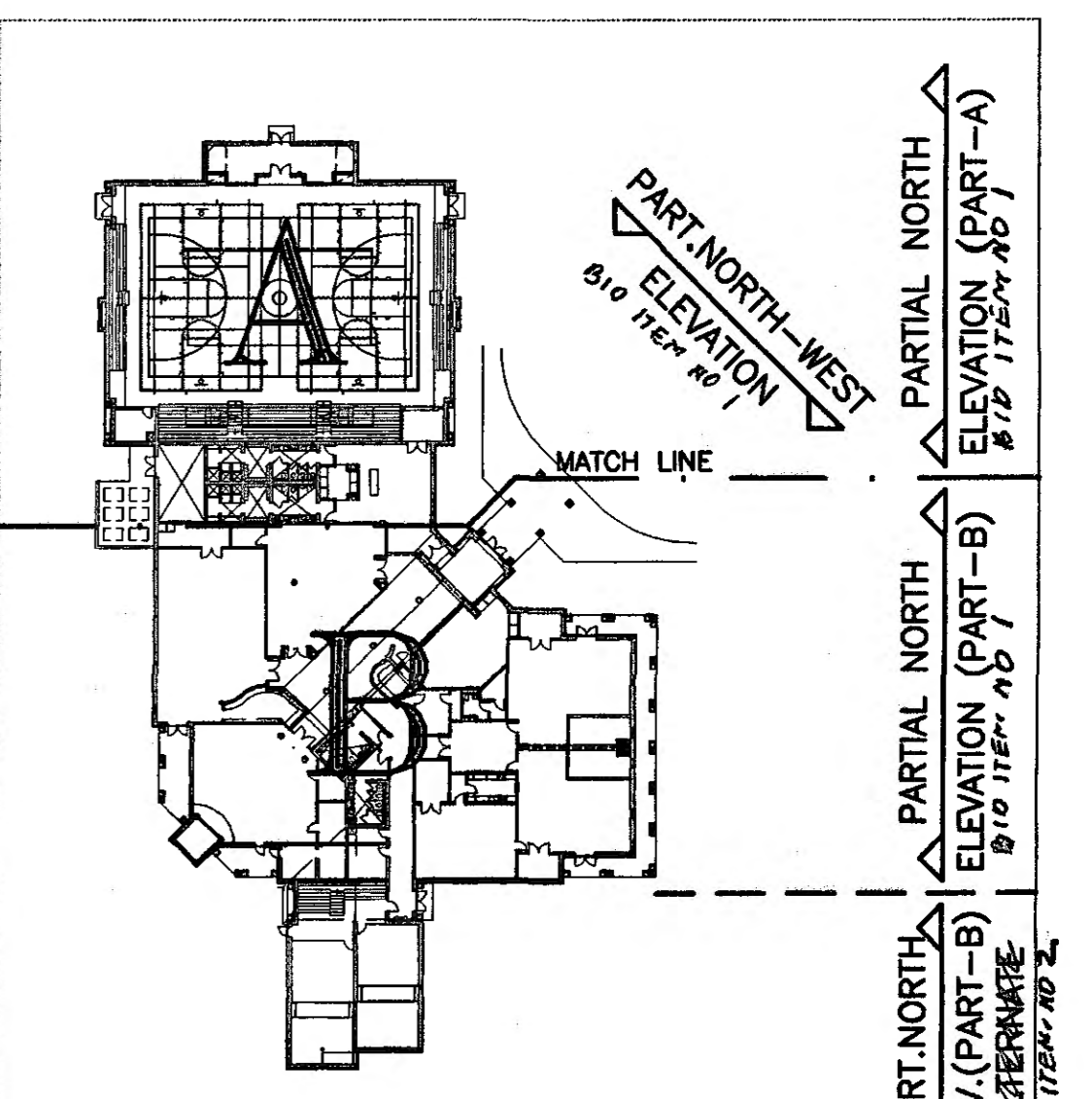
**PARTIAL NORTH ELEVATION (PART - B)**

SCALE : 1/8" = 1' - 0"



**TYP. CMU / TYPE LEGEND**

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



**KEY PLAN**

SCALE : 1" = 60'-0" SCALE UP 7.5 SCALE DOWN .13333

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**6-1-019**

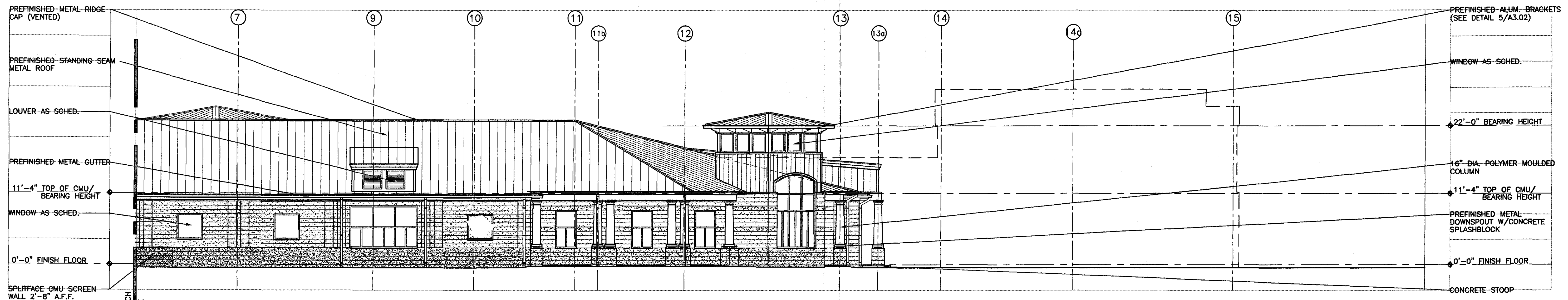
STATE OF ALABAMA  
 WILHELM ELLIOTT WELLS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	00/00/01

drawn by: OGB, CED  
**NORTH EXTERIOR ELEVATIONS**

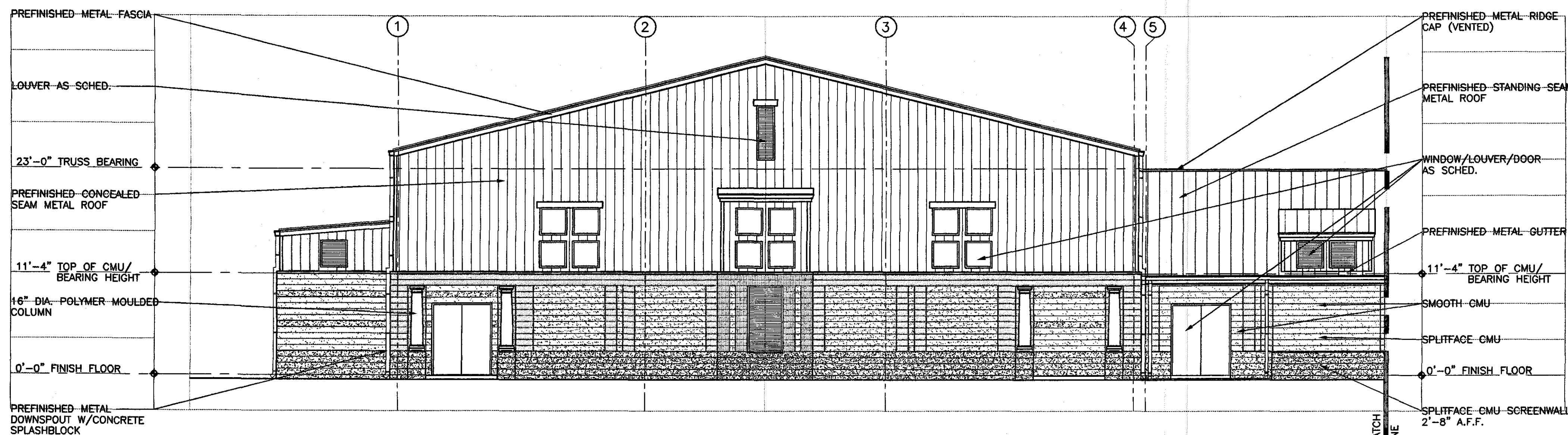
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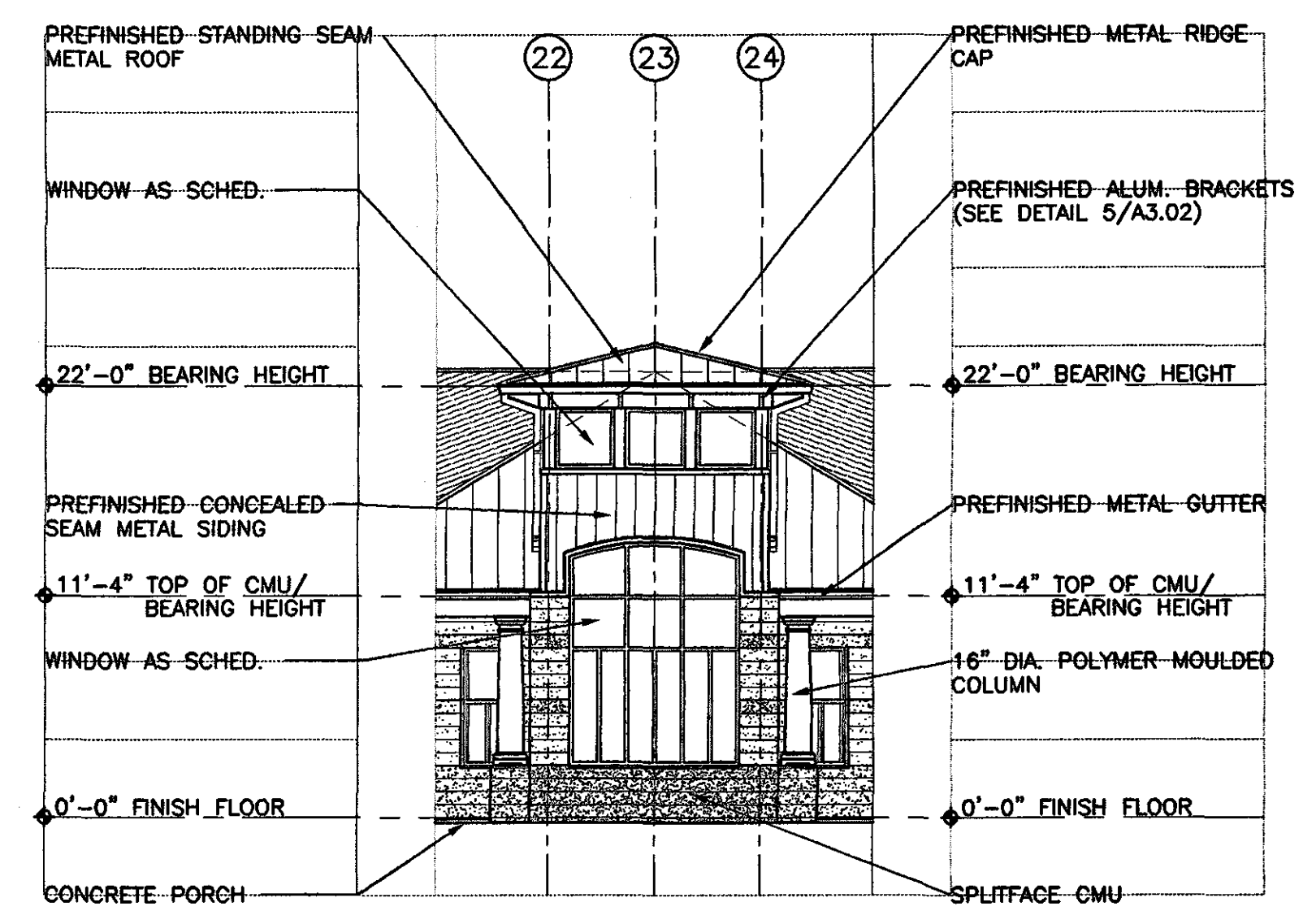
**PARTIAL SOUTH ELEVATION (PART - B)**

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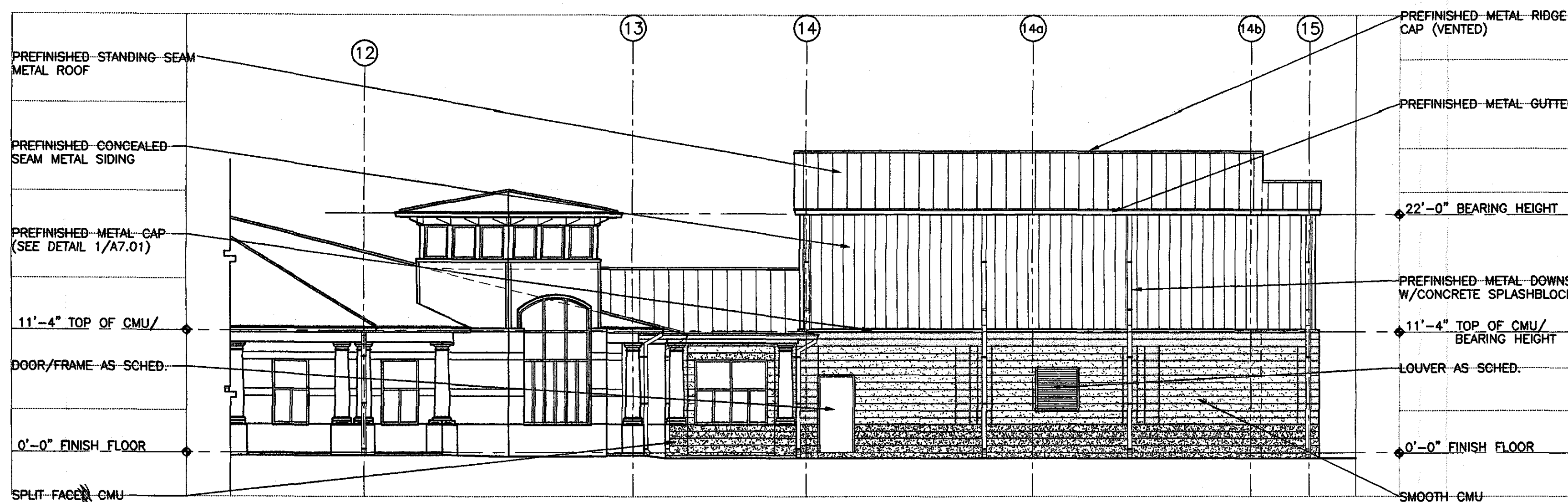
**PARTIAL SOUTH ELEVATION (PART - A)**

SCALE : 1/8" = 1' - 0"



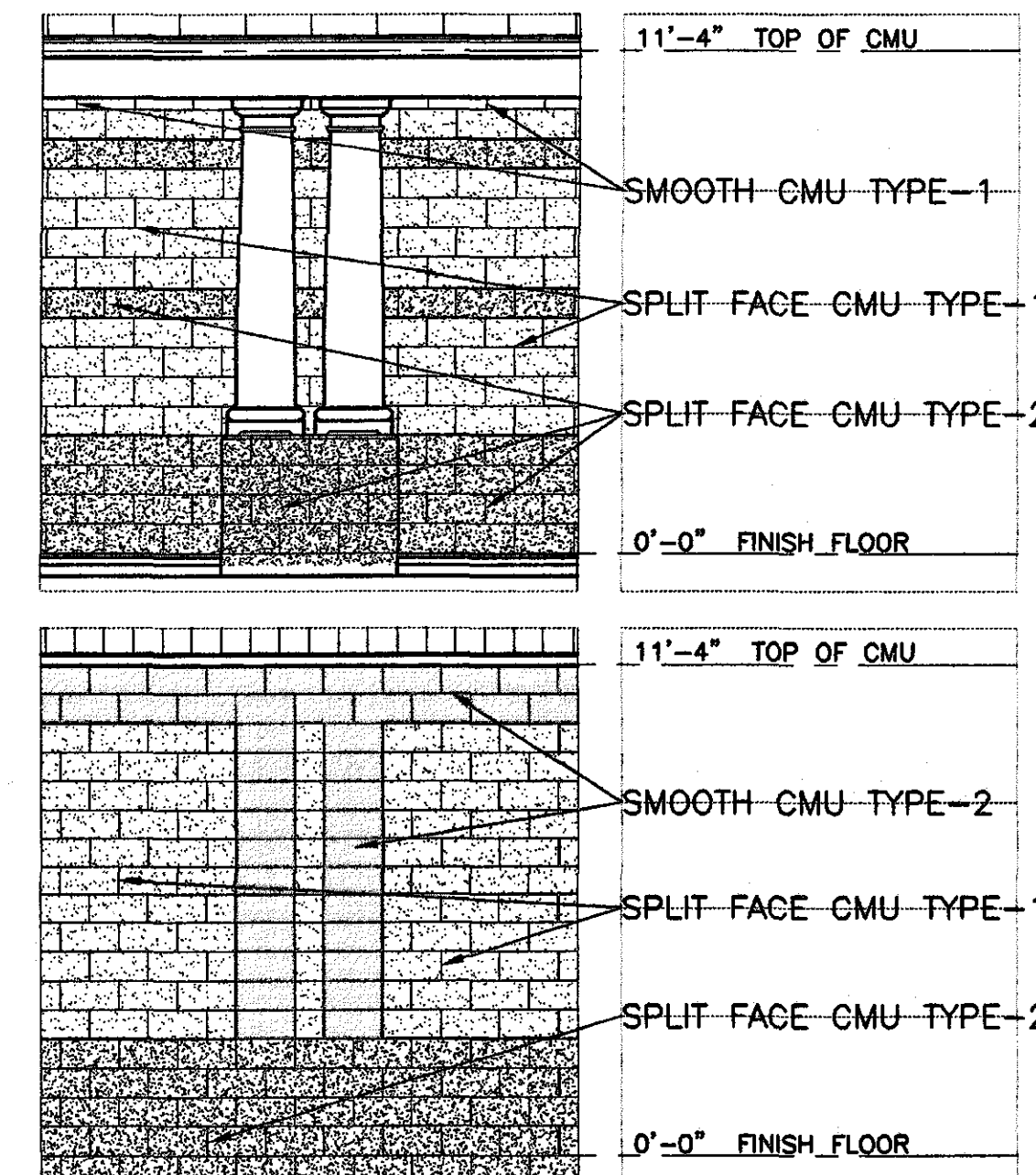
**PART SOUTH-EAST ELEV.**

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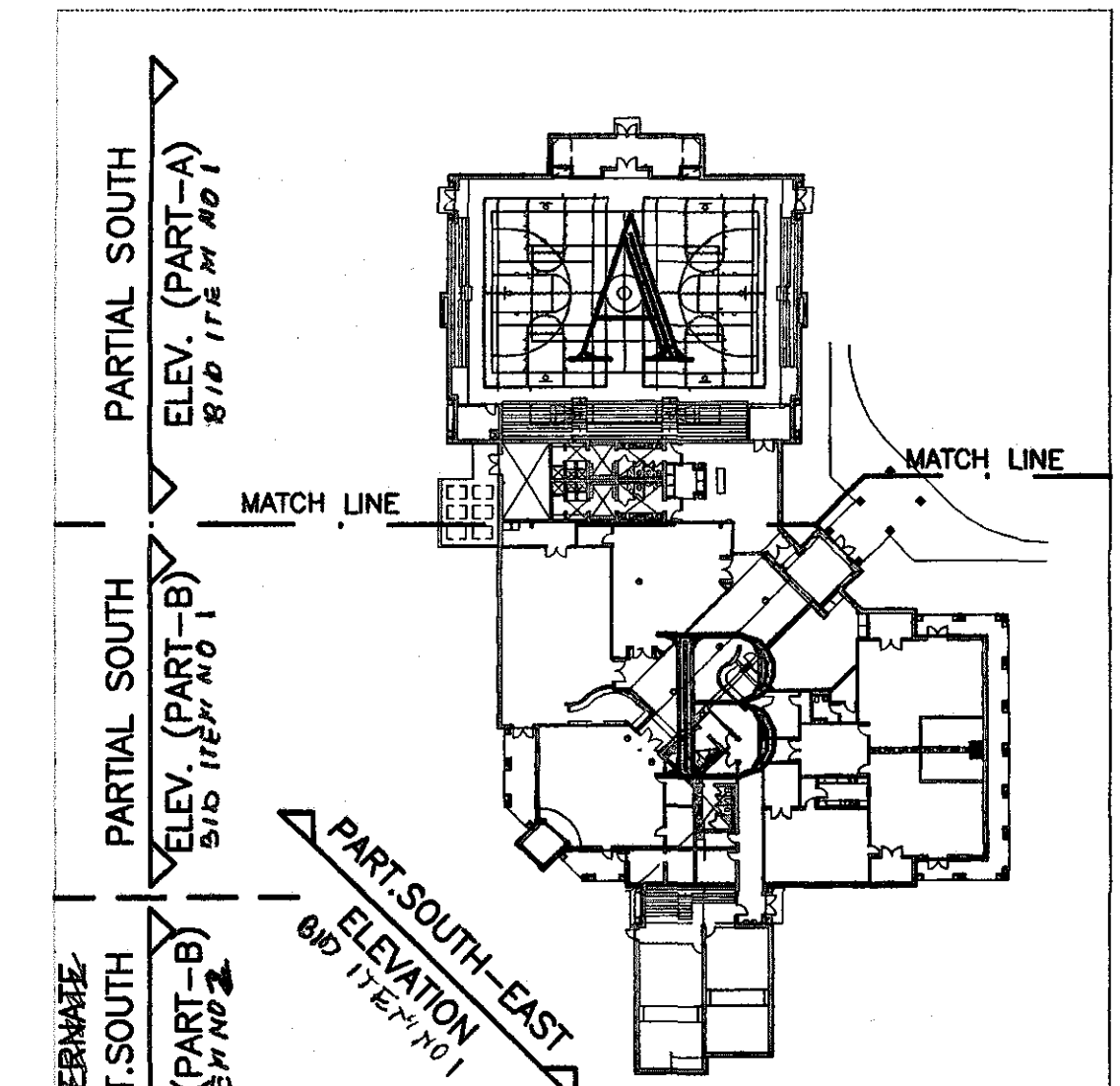
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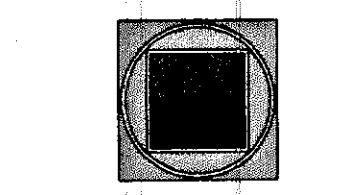
**TYP. CMU / TYPE LEGEND**

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



**KEY PLAN**

SCALE : 1" = 60'-0"  
SCALE UP 7.5 SCALE DOWN .13333



**GOODWYN, MILLS & CAWOOD, INC.**

**ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING**

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1102 South 20<sup>th</sup> Street  
Birmingham, Alabama 35205  
Phone: (205) 678-4492 Fax: (205) 678-4493

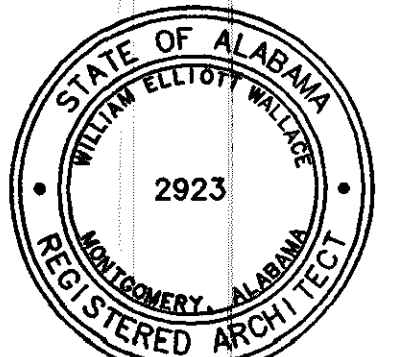
**STRUCTURAL ENGINEER**  
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**MECH. & ELEC. ENGINEER**  
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FOR THE  
**City of Orange Beach**  
alabama

**6-1-019**



**Issue date**

Design Development 08/10/01

FINAL 00/00/01

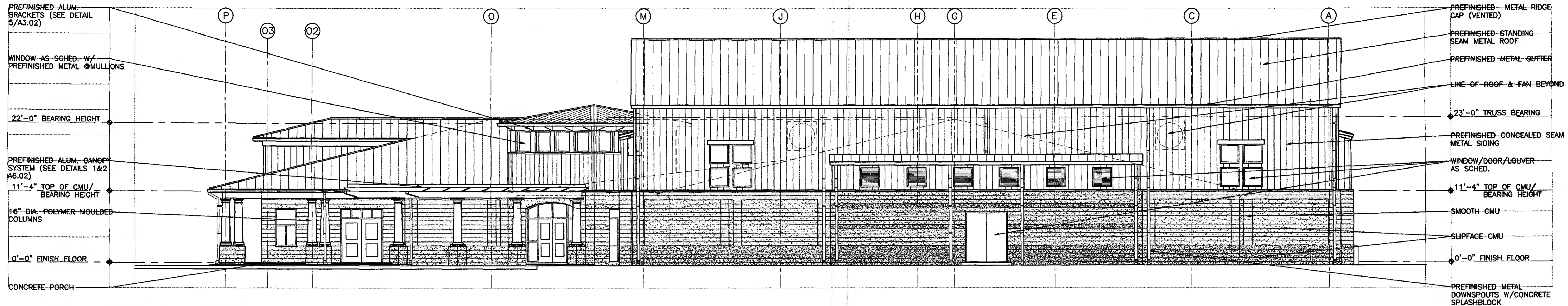
drawn by: CGB, CED

**SOUTH EXTERIOR ELEVATIONS**

95% SUBMITTAL

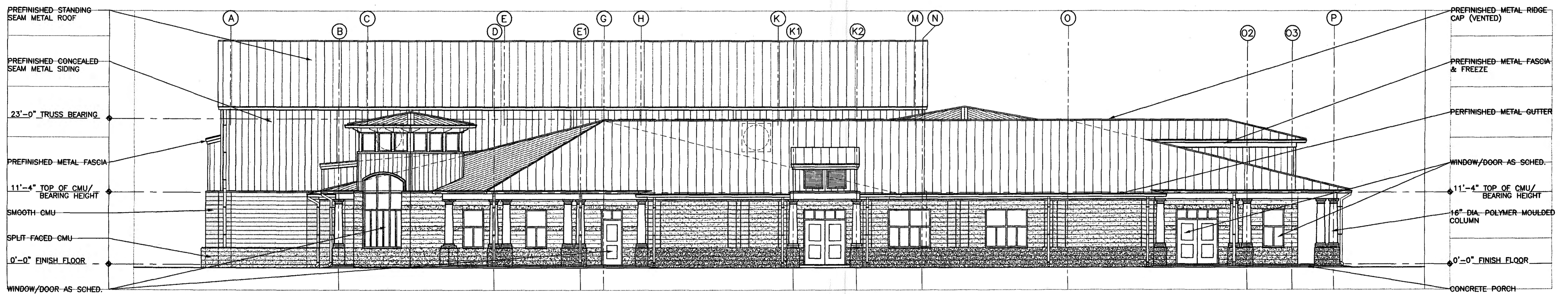
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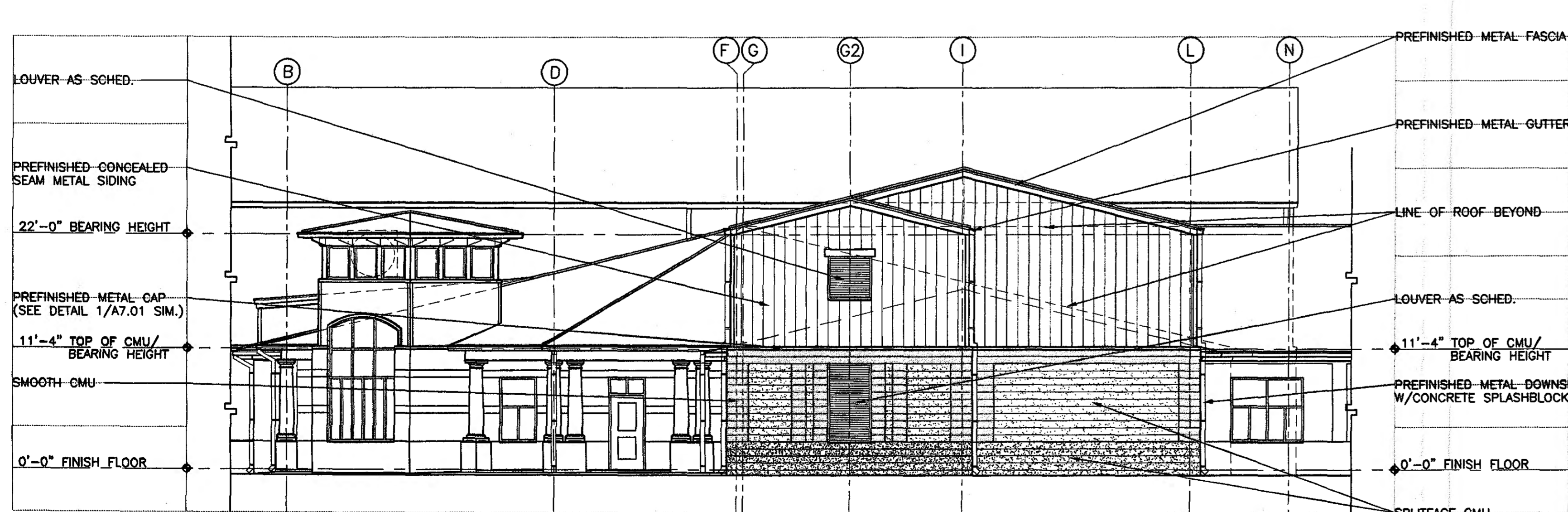
# WEST ELEVATION

SCALE : 1/8" = 1' - 0"



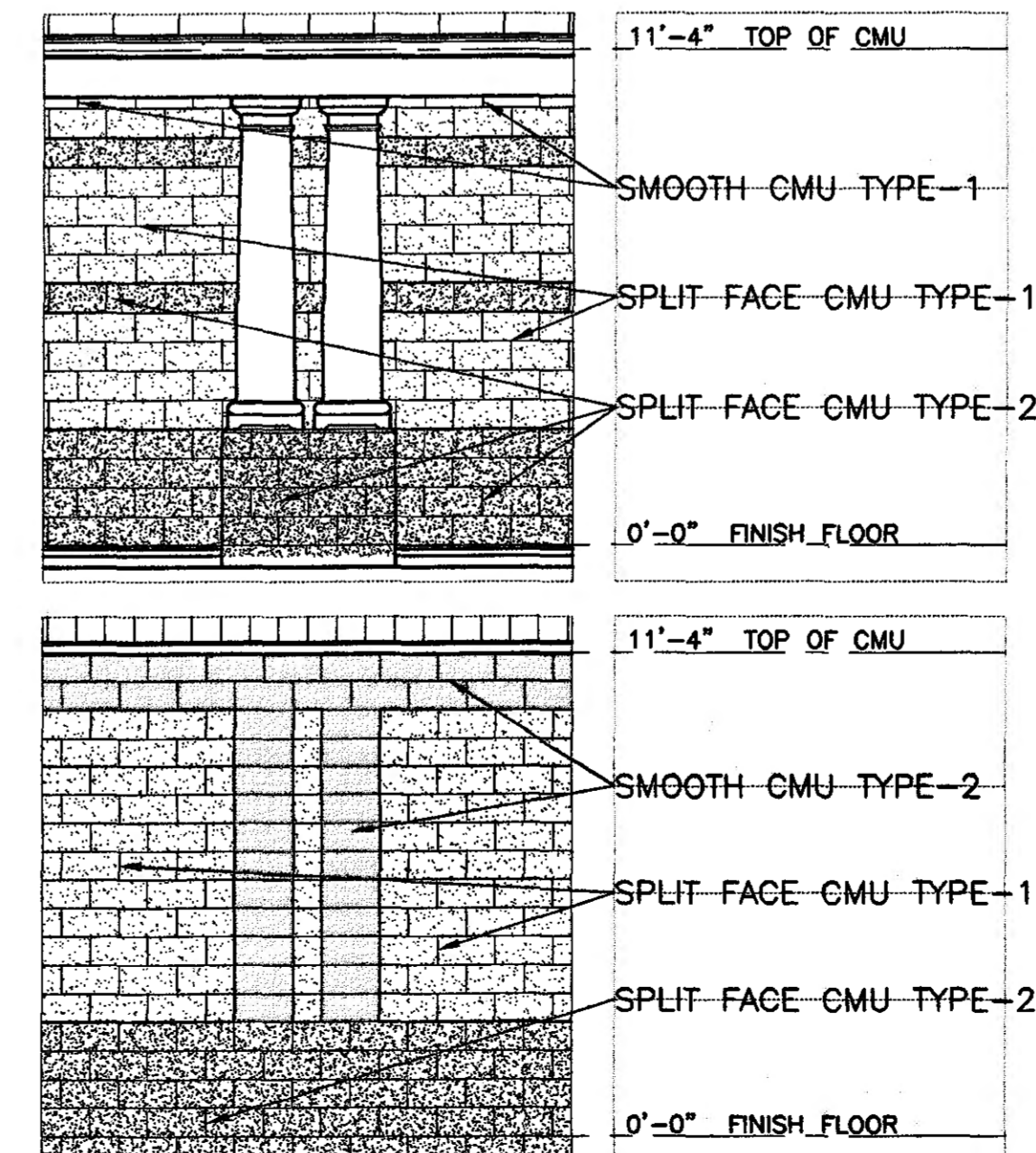
# EAST ELEVATION

SCALE : 1/8" = 1' - 0"

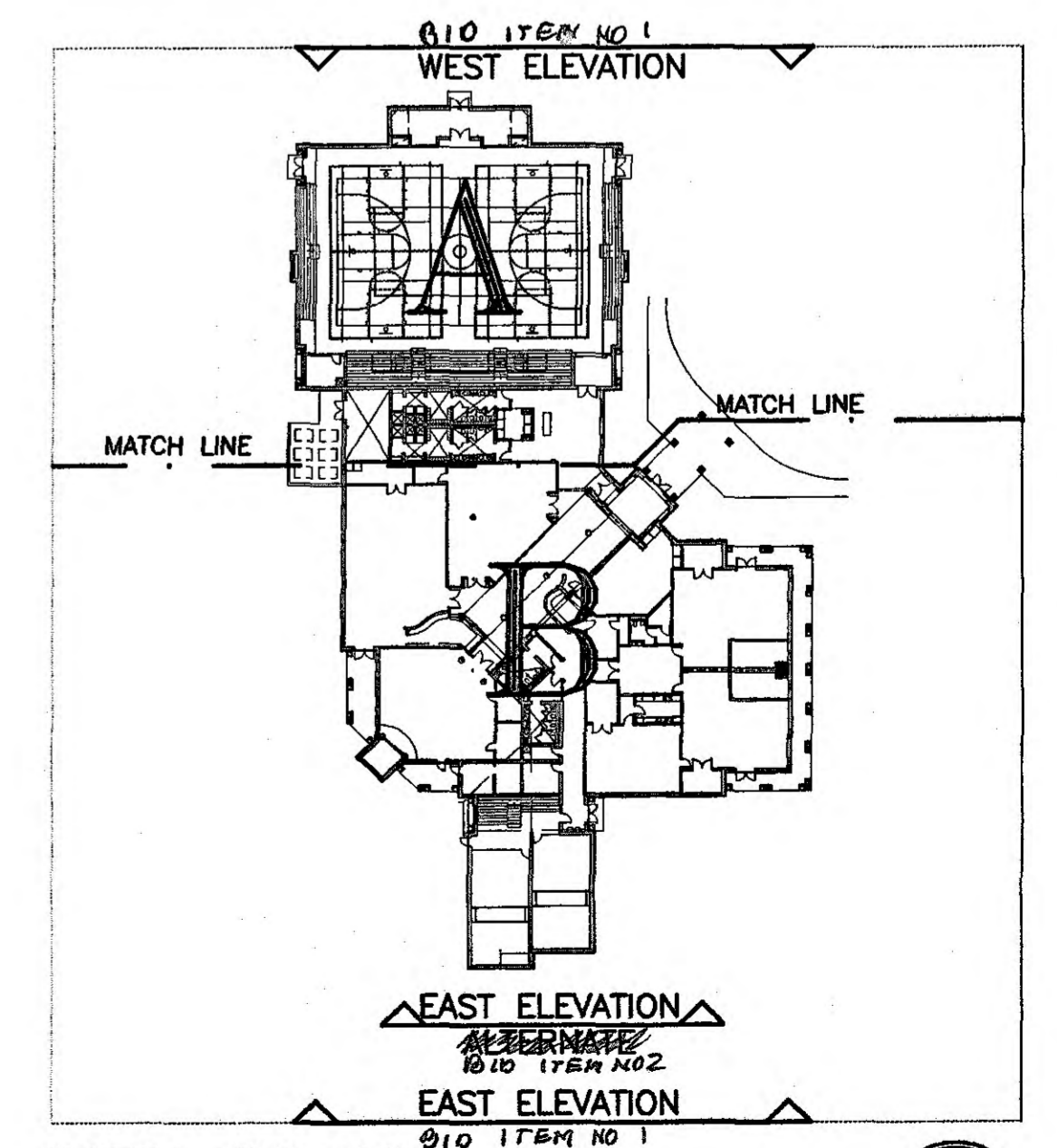


# EAST ELEVATION

SCALE : 1/8" = 1' - 0"



**TYP. CMU / TYPE LEGEND**  
SCALE : 1/4" = 1' - 0"



**KEY PLAN**  
SCALE : 1" = 60'-0"  
SCALE UP 7.5 SCALE DOWN .13333

**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 3805  
Montgomery, Alabama 36108  
Phone: (334) 271-3200  
Fax: (334) 272-1885  
1102 South 20<sup>th</sup> Street  
Birmingham, Alabama 35205  
Phone: (205) 879-4462  
Fax: (205) 879-4463

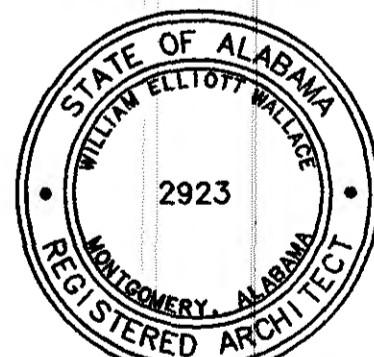
**STRUCTURAL ENGINEER**  
Terry Grant, P.E.  
325 North Hul Street  
Montgomery, Alabama 36104  
Phone: (334) 265-4831

**MECH. & ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 289-0329

**A NEW RECREATION COMPLEX**  
FOR THE

City of  
**Orange Beach**  
Alabama

6-1-019



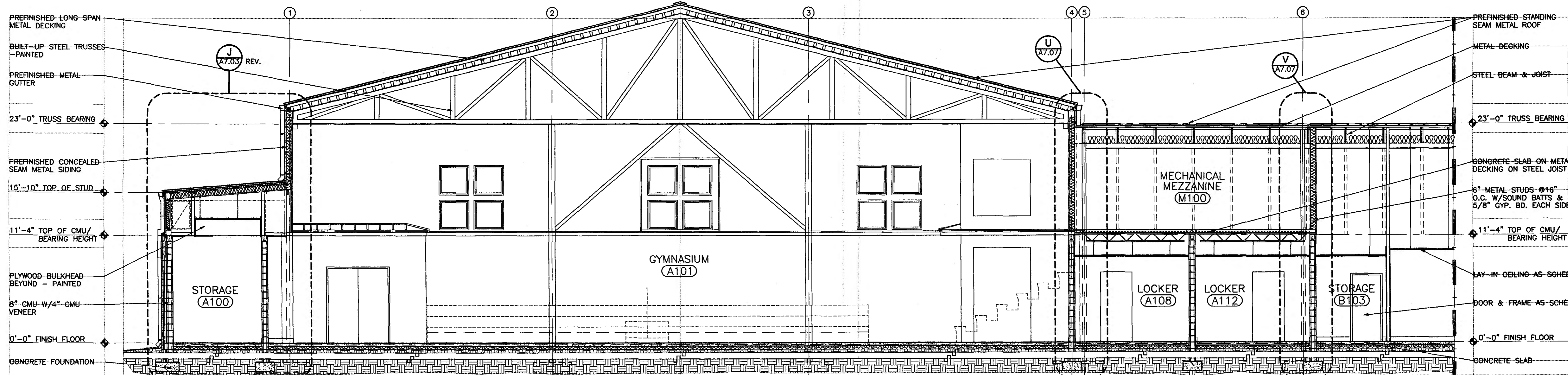
Issue	date
Design Development	08/10/01
FINAL	00/00/01

drawn by: CGB, CED  
**EAST & WEST EXTERIOR ELEVATIONS**

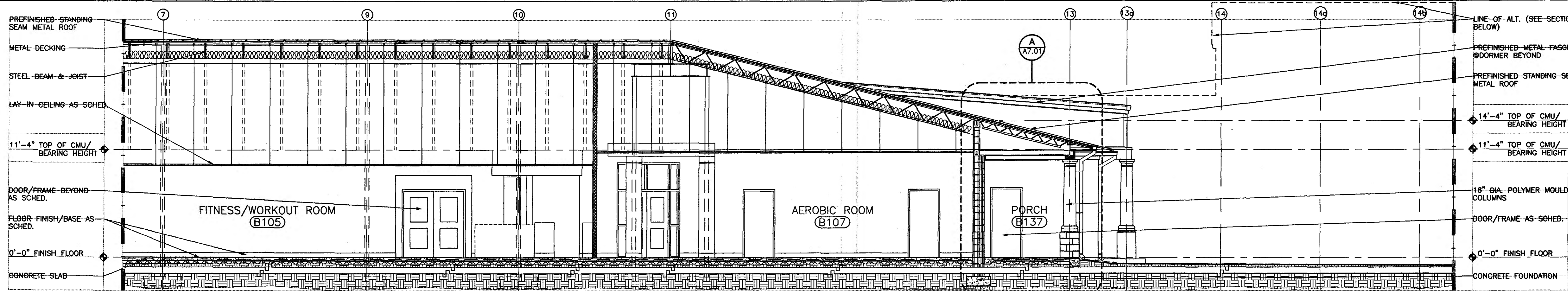
95% SUBMITTAL  
**A5.03**  
sheet 00 of 00



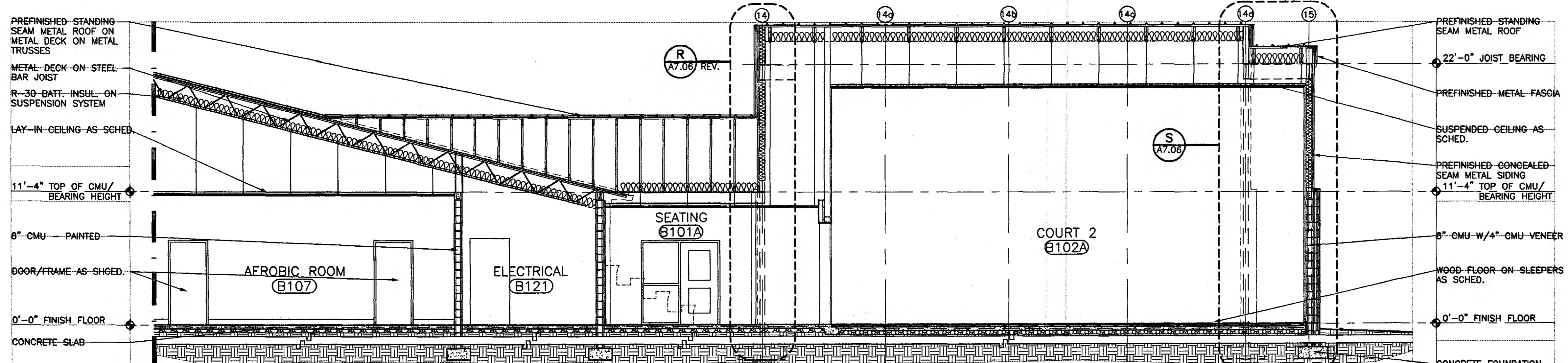
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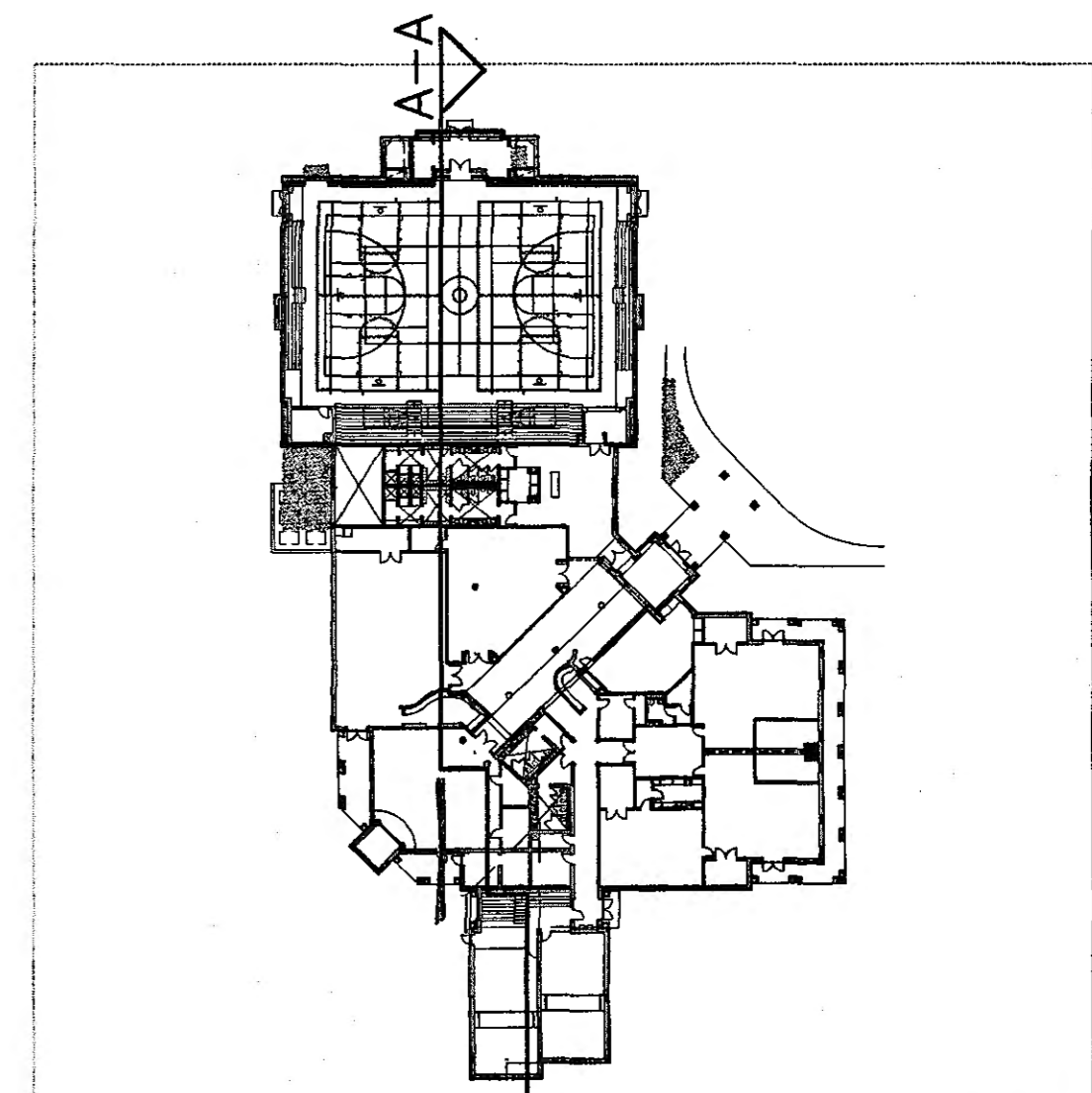
**A-A PARTIAL BUILDING SECTION (PART - A)**  
 A6.01 SCALE : 3 / 16" = 1' - 0"



**A-A PARTIAL BUILDING SECTION (PART - B)**  
 A6.01 SCALE : 3 / 16" = 1' - 0"



**A-A PARTIAL BUILDING SECTION (PART - B)**  
 A6.01 SCALE : 3 / 16" = 1' - 0"



**KEY PLAN**  
 SCALE : 1" = 60'-0"  
 SCALE UP 11.25 SCALE DOWN .0888888

**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
 125 Interstate Park Drive, P O Box 3805  
 Montgomery Alabama 36109  
 Phone: (334) 271-3200 Fax: (334) 272-1566  
 1102 South 27th Street  
 Birmingham Alabama 35205  
 Phone: (205) 879-4482 Fax: (205) 879-4483

**STRUCTURAL ENGINEER**  
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 500 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 289-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach alabama**

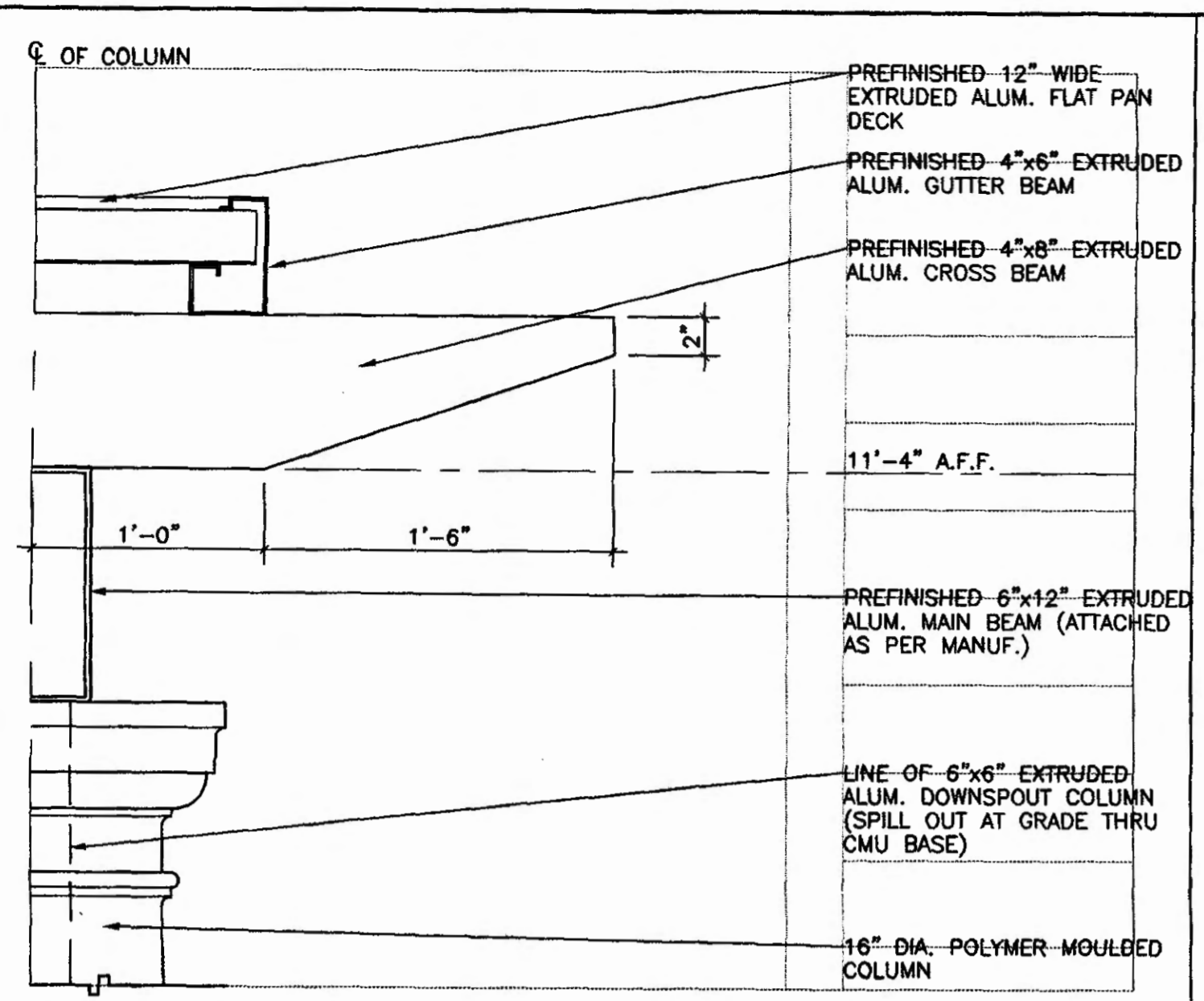
**6-1-019**  
 STATE OF ALABAMA  
 WILLIAM FELTOTT WALKER  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT  
 2923

Issue date	
Design Development	08/10/01
FINAL	08/17/01

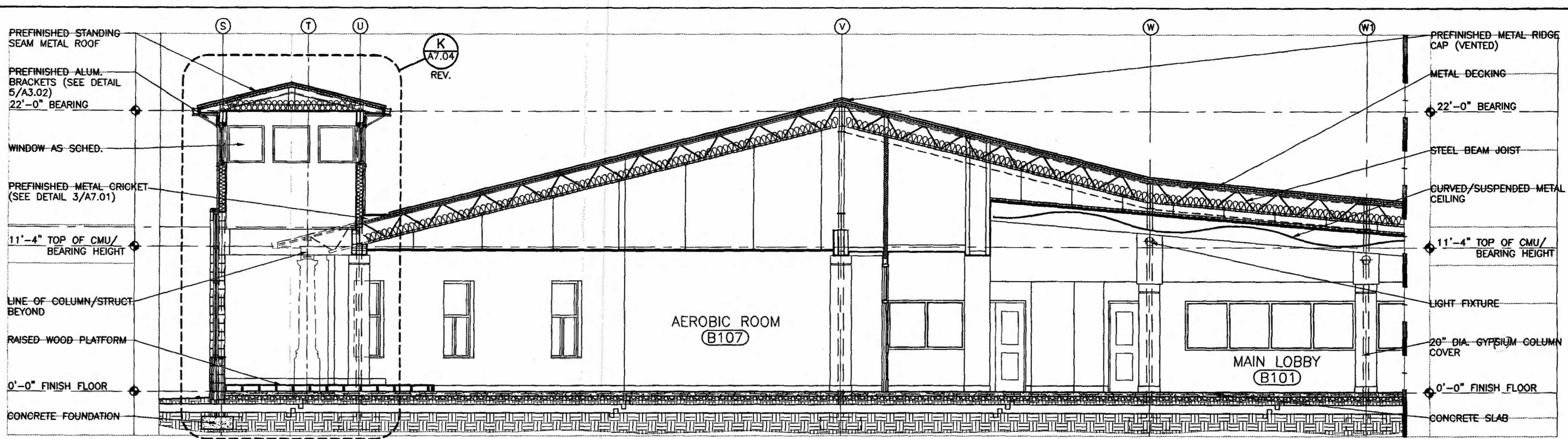
drawn by: CGB, CED  
**BUILDING SECTION A - A**

95% SUBMITTAL  
**A6.01**  
 sheet 00 of 00

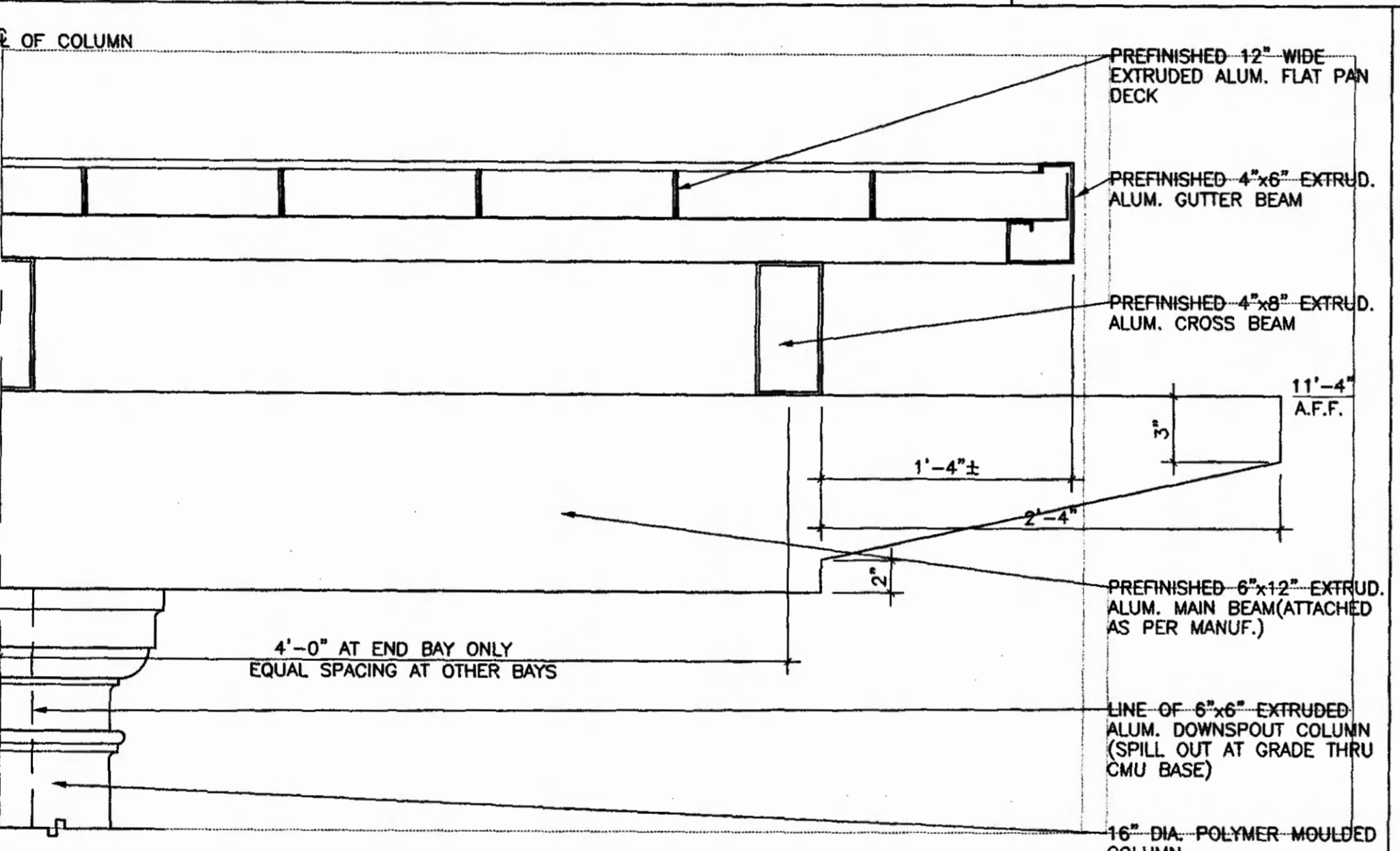
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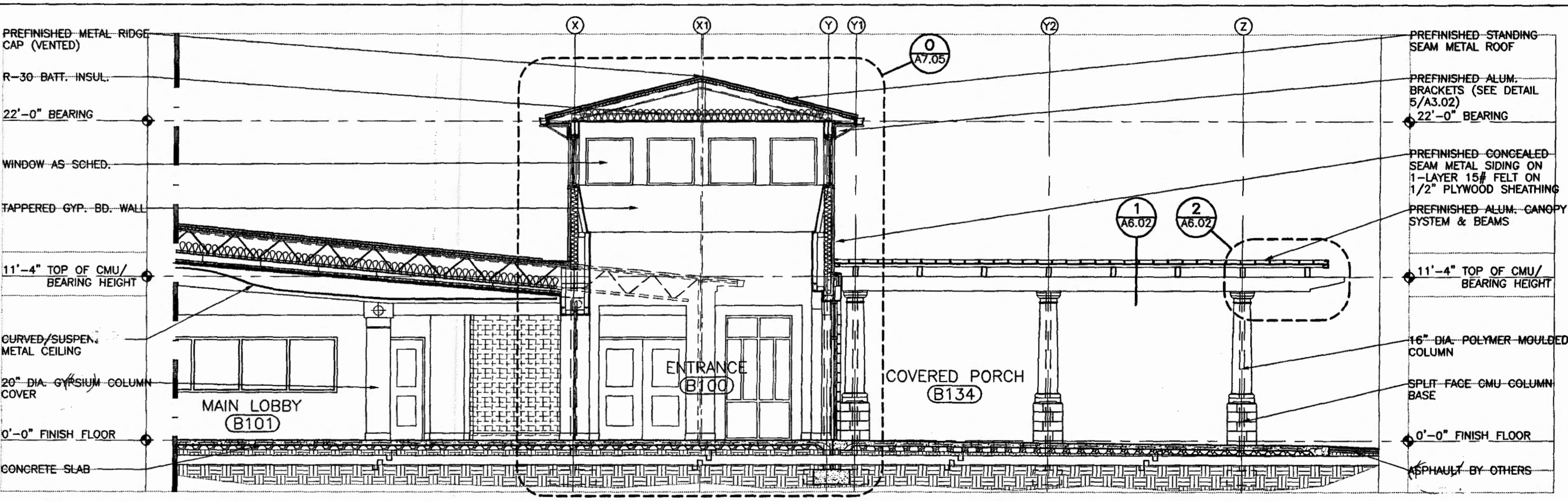
**1 PREFINISHED CANOPY DETAIL**  
 A6.02 SCALE: 1 1/2" = 1'-0"  
 SC UP - 8 / SC DN - .125



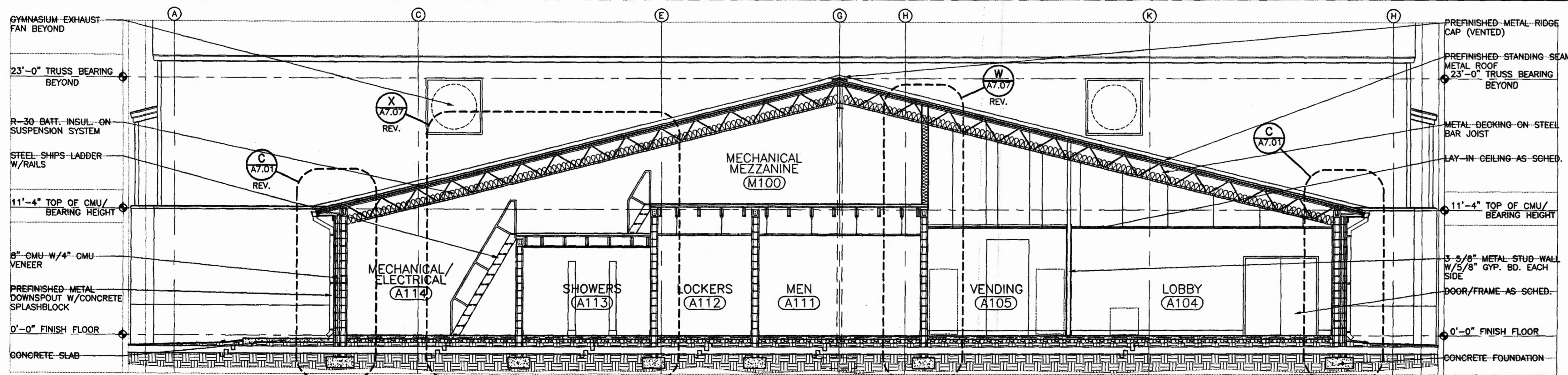
**B-B PARTIAL BUILDING SECTION**  
 A6.02 SCALE: 3/16" = 1'-0"



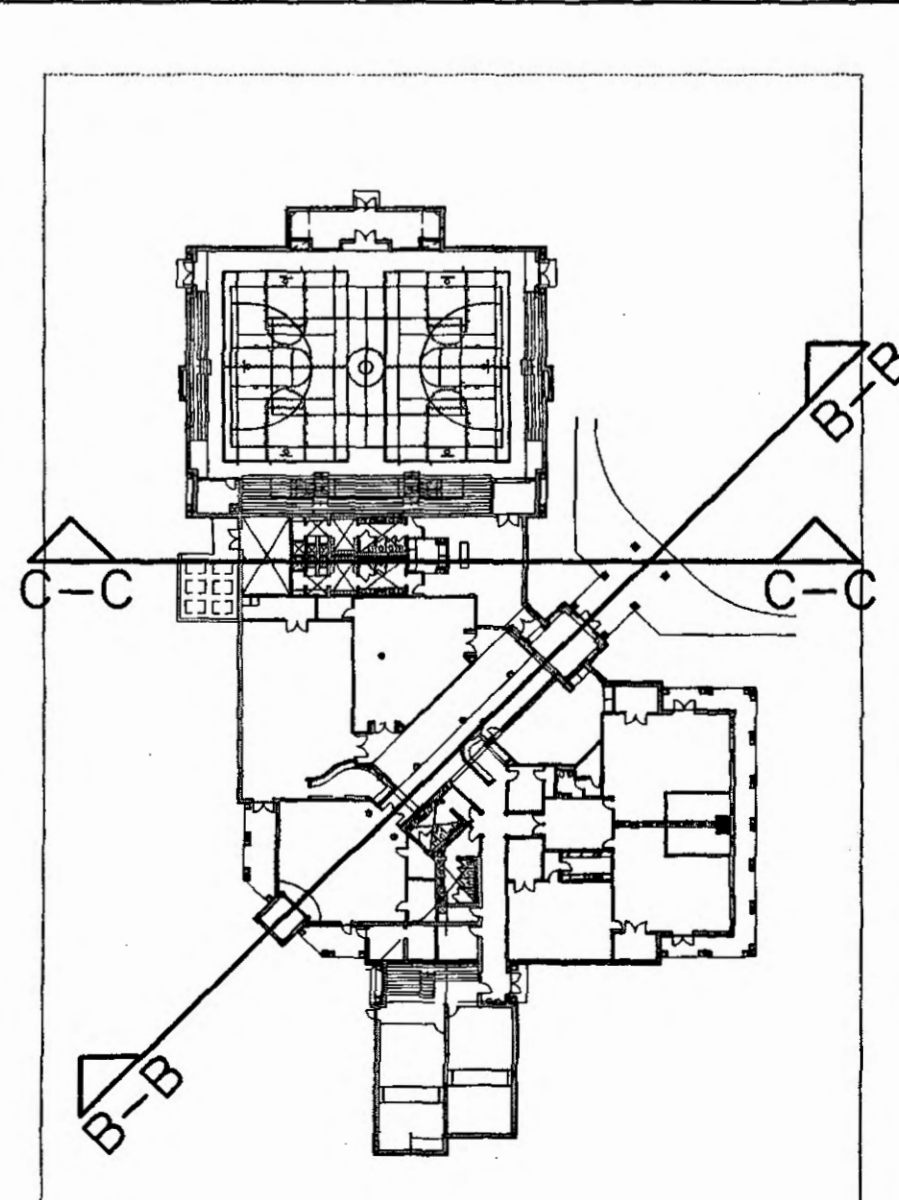
**2 PREFINISHED CANOPY DETAIL**  
 A6.02 SCALE: 1 1/2" = 1'-0"  
 SC UP - 8 / SC DN - .125



**B-B PARTIAL BUILDING SECTION**  
 A6.02 SCALE: 3/16" = 1'-0"



**C-C BUILDING SECTION**  
 A6.02 SCALE: 3/16" = 1'-0"



**KEY PLAN**  
 SCALE: 1" = 60'-0"  
 SCALE UP 11.25 SCALE DOWN .0888888

**GOODWYN, MILLS & CAWOOD, INC.**  
 ARCHITECTURE  
 ENGINEERING  
 LANDSCAPE ARCHITECTURE  
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 125 Interstate Park Drive, P.O. Box 2805  
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 1102 South 20<sup>th</sup> Street  
 Birmingham, Alabama 35205  
 Phone: (205) 678-4462  
 Fax: (205) 679-4493

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 Terry Grant, P.E.  
 525 North Hill Street  
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**MECH. & ELEC. ENGINEER**  
 Borden & Morris Consulting Engineers, Inc.  
 903 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 289-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019

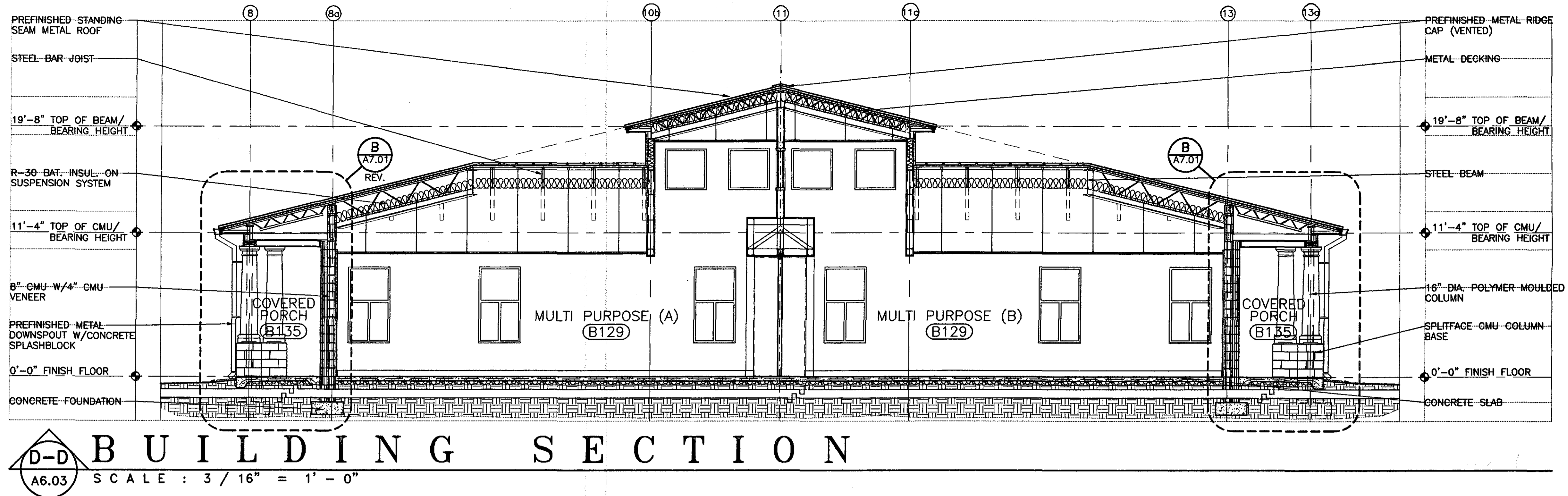
STATE OF ALABAMA  
 METHEM ELIOTTY WELLS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCH. TECH.

Issue	date
Design Development	08/10/01
FINAL	09/17/01

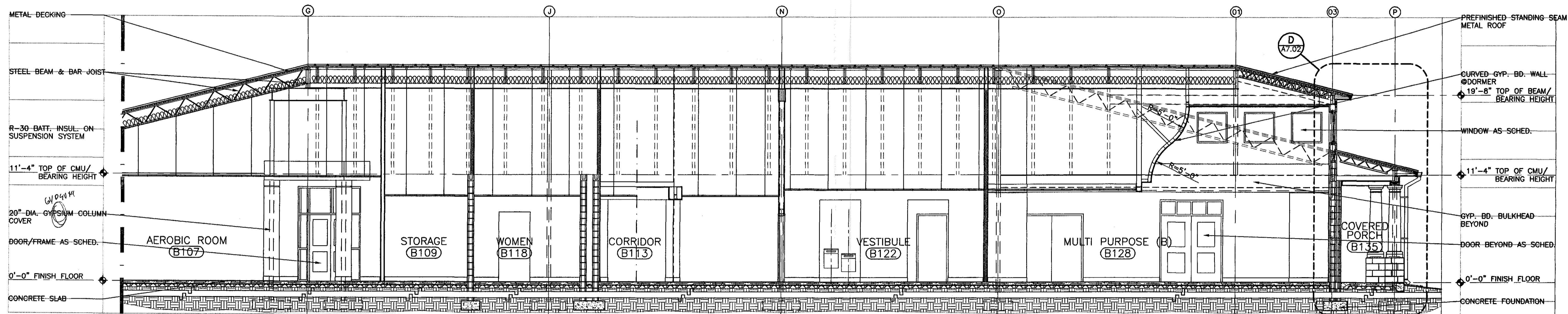
drawn by: OGB, CED  
**BUILDING SECTION B-B & C-C**

95% SUBMITTAL  
**A6.02**  
 sheet 00 of 00

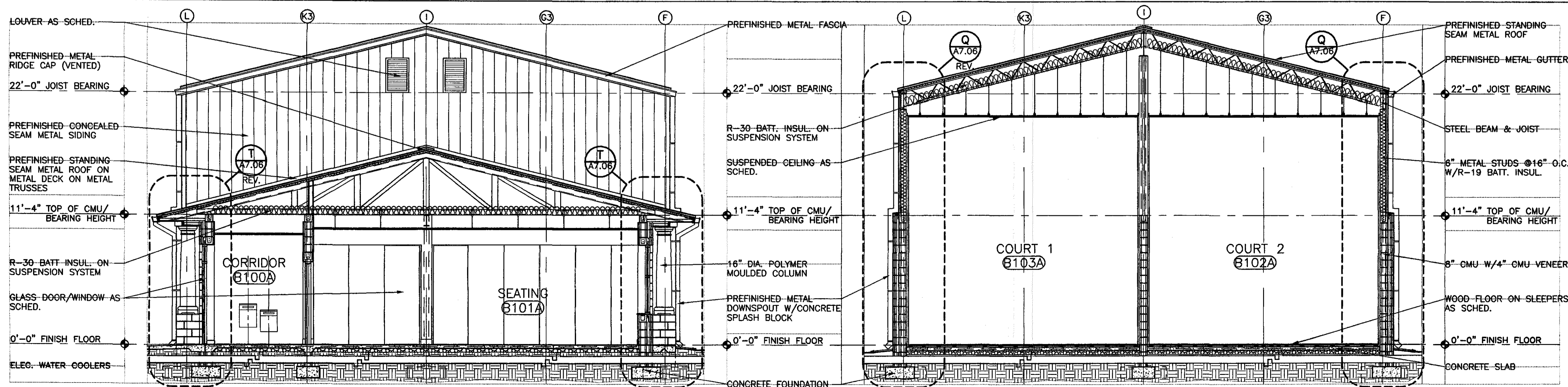
301 Projects\6-1-019\_020 Orange Beach Rec Park\A6.02 Construction.dwg 06.02 Building Sec B-B C-C.dwg Fri Sep 14 05:41:16 2001



**D-D BUILDING SECTION**  
 SCALE : 3 / 16" = 1' - 0"



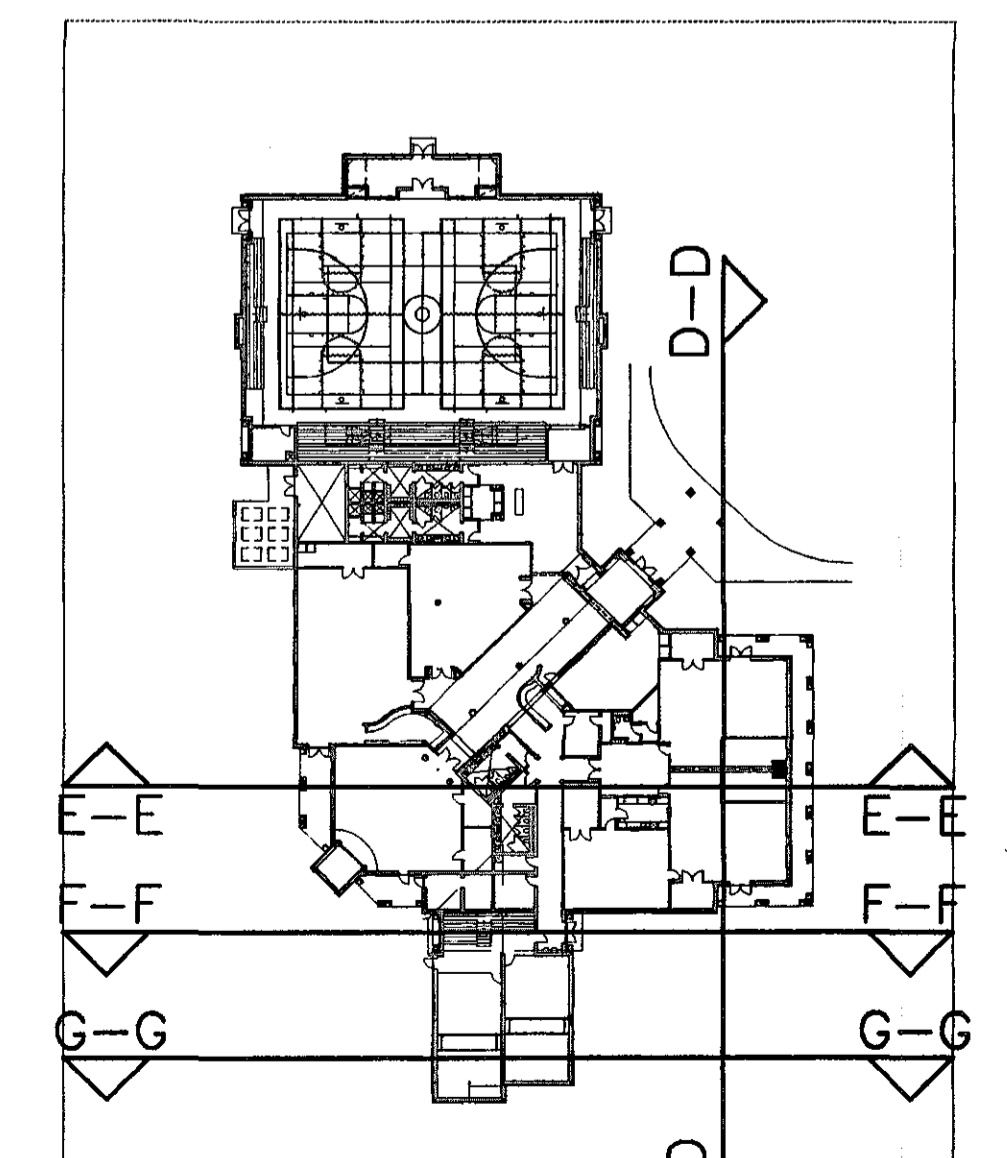
**E-E BUILDING SECTION**  
 SCALE : 3 / 16" = 1' - 0"



**F-F BUILDING SECTION**  
 SCALE : 3 / 16" = 1' - 0"

**ALTERNATE**  
 DIB ITEM NO. 2

**G-G BUILDING SECTION**  
 SCALE : 3 / 16" = 1' - 0"

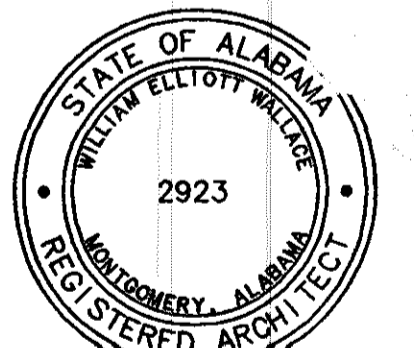


**KEY PLAN**  
 SCALE : 1" = 60'-0"  
 SCALE UP 11.25 SCALE DOWN .088888

**GOODWYN, MILLS & CAWOOD, INC.**  
 ARCHITECTURE  
 ENGINEERING  
 LANDSCAPE ARCHITECTURE  
 PLANNING  
 125 Interstate Park Drive, P.O. Box 3605  
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 Fax: (334) 272-1588  
 1102 South 20<sup>th</sup> Street  
 Birmingham, Alabama 35205  
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 Fax: (205) 878-4493

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 Terry Grant, P.E.  
 305 North Hull Street  
 Montgomery, Alabama 36104  
 Phone: (334) 265-4831  
**MECH. & ELEC. ENGINEER**  
 Sarden & Morris Consulting Engineers, Inc.  
 905 South Perry Street  
 Montgomery, Alabama 36104  
 Phone: (334) 268-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Ala.  
 6-1-019



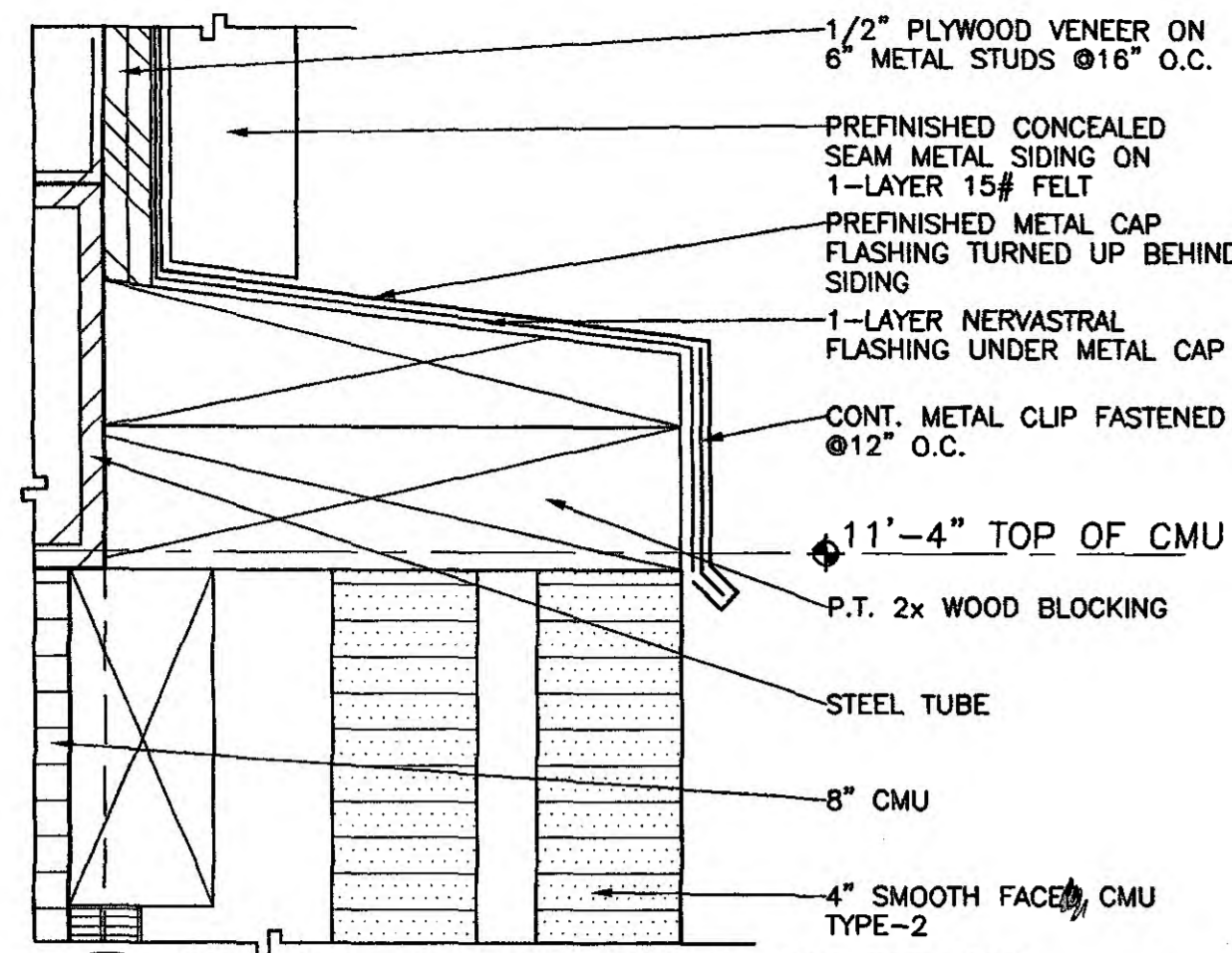
Issue date	
Design Development	08/10/01
FINAL	09/17/01

drawn by: CGB, CED  
**BUILDING SECTION D-D, E-E, F-F & G-G**

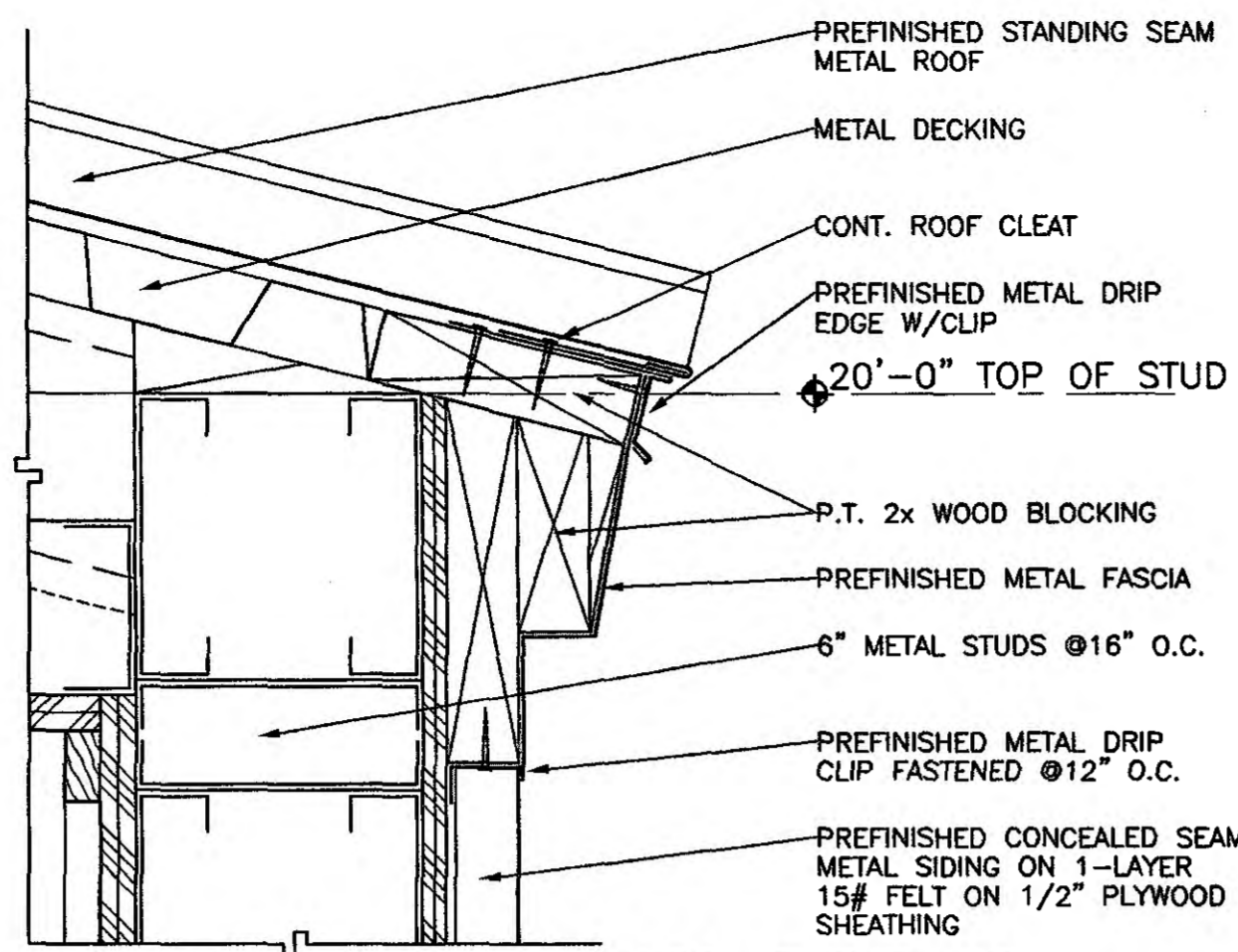
95% SUBMITTAL  
**A6.03**  
 sheet 00 of 00

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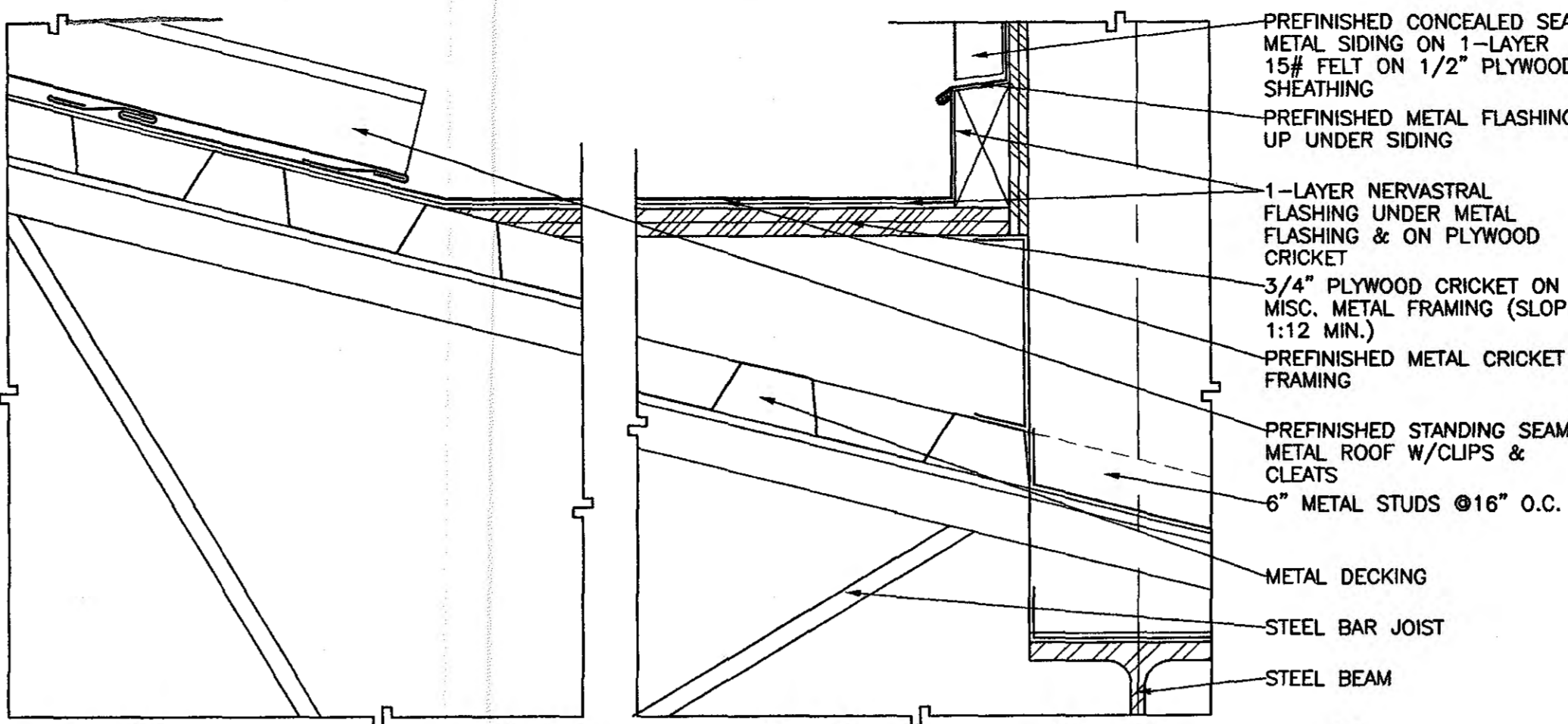




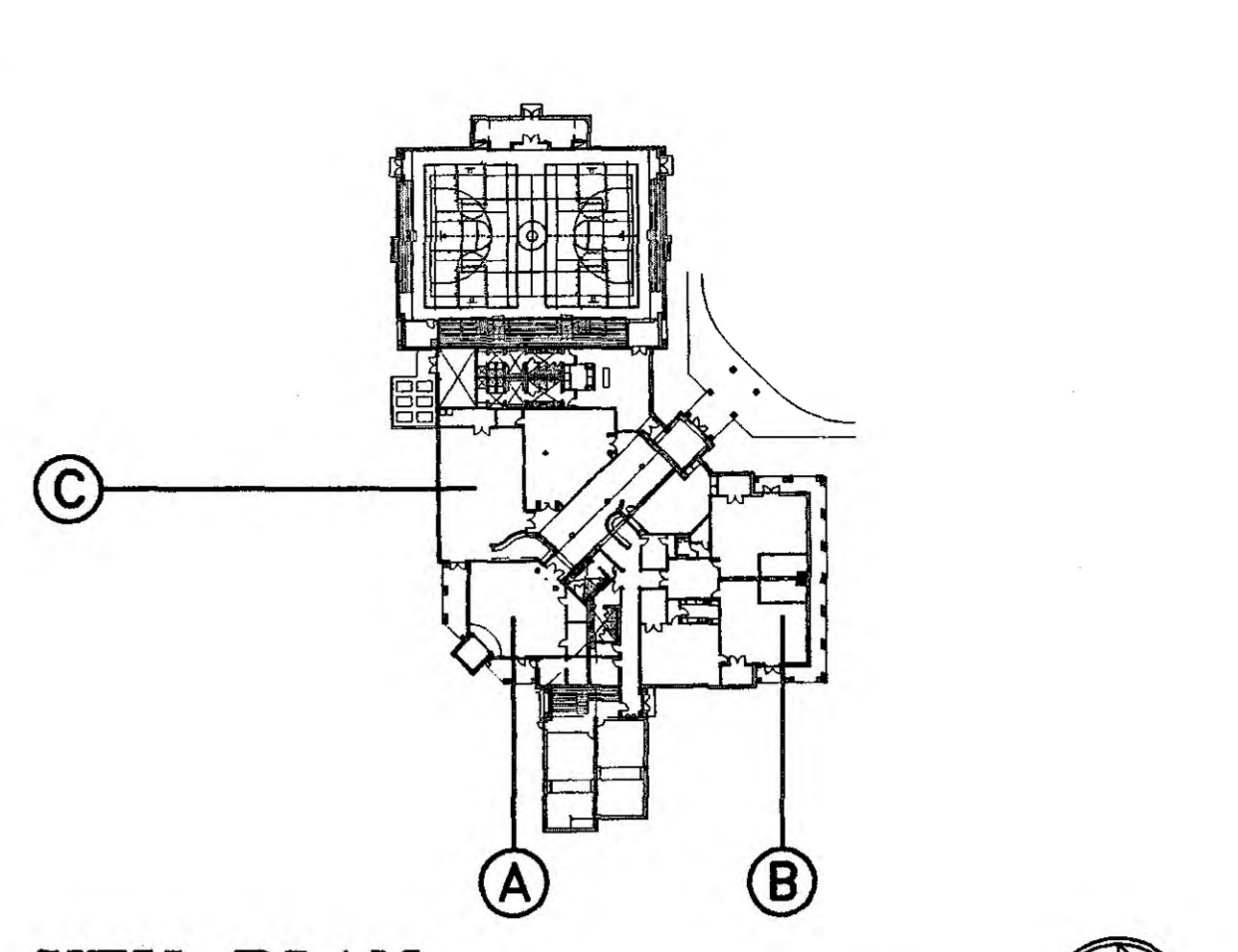
**1 WALL SECTION DETAIL**  
A7.01 SCALE: 6" = 1'-0"



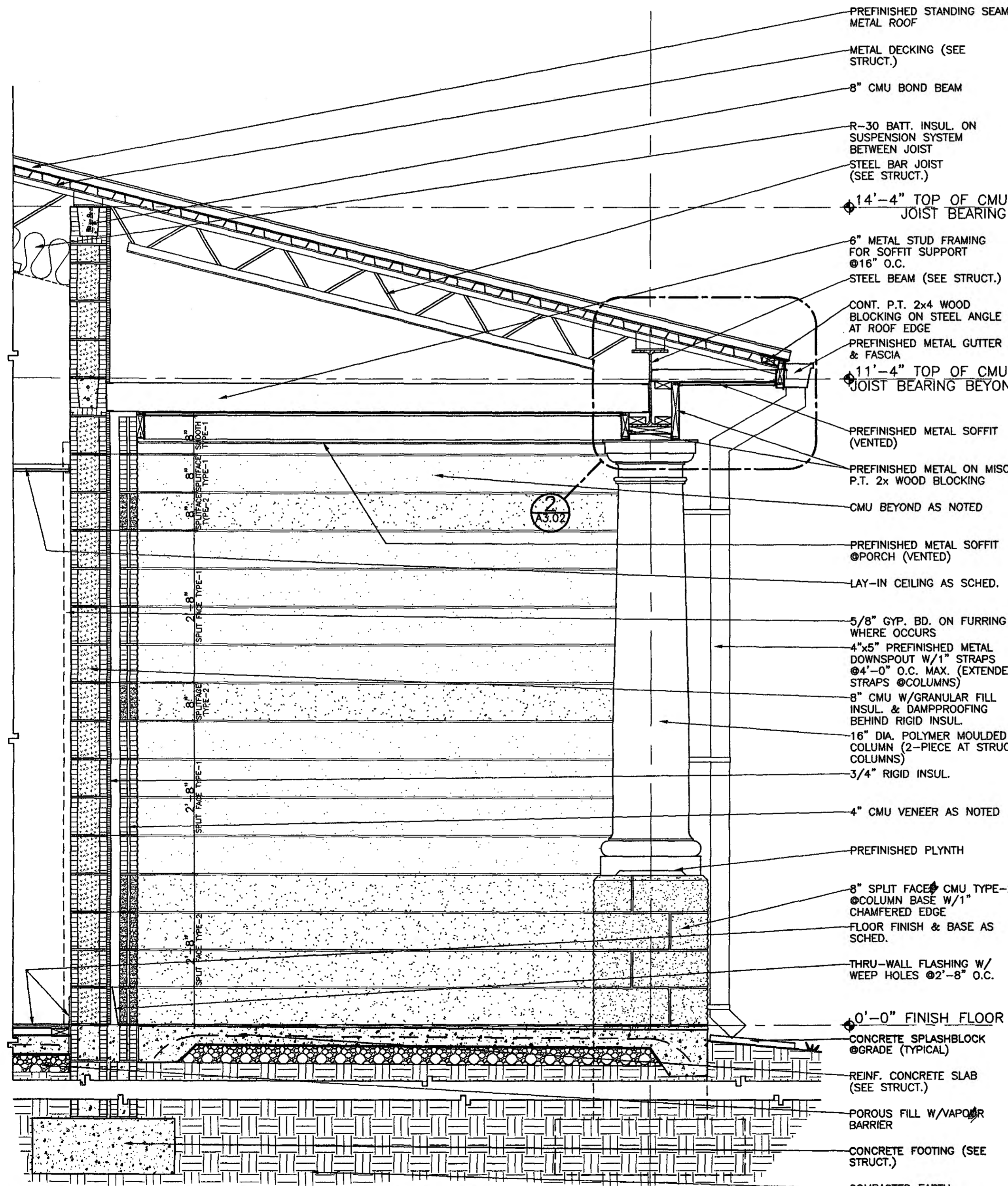
**2 WALL SECTION DETAIL**  
A7.01 SCALE: 3" = 1'-0"



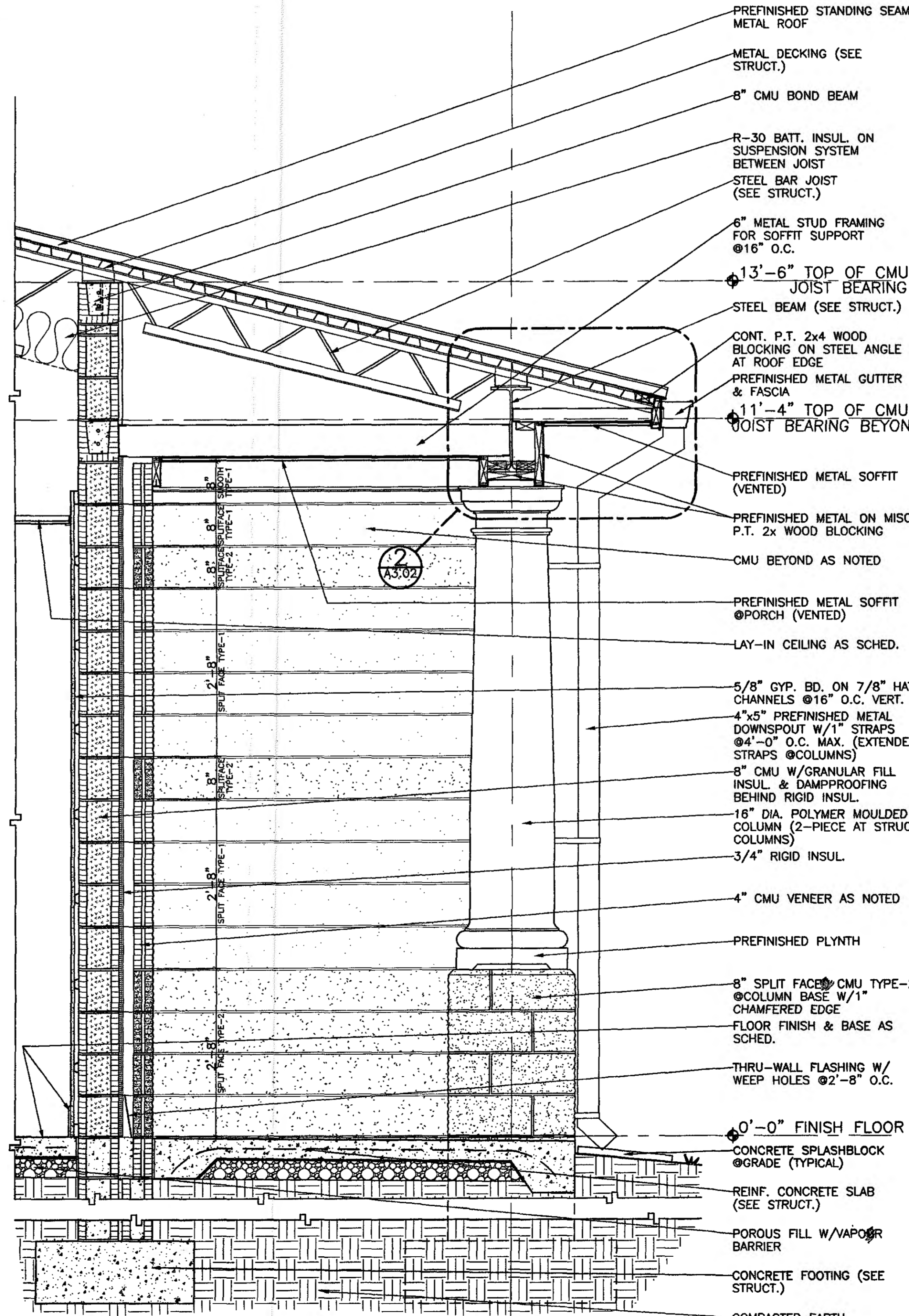
**3 WALL SECTION DETAIL**  
A7.01 SCALE: 3" = 1'-0"



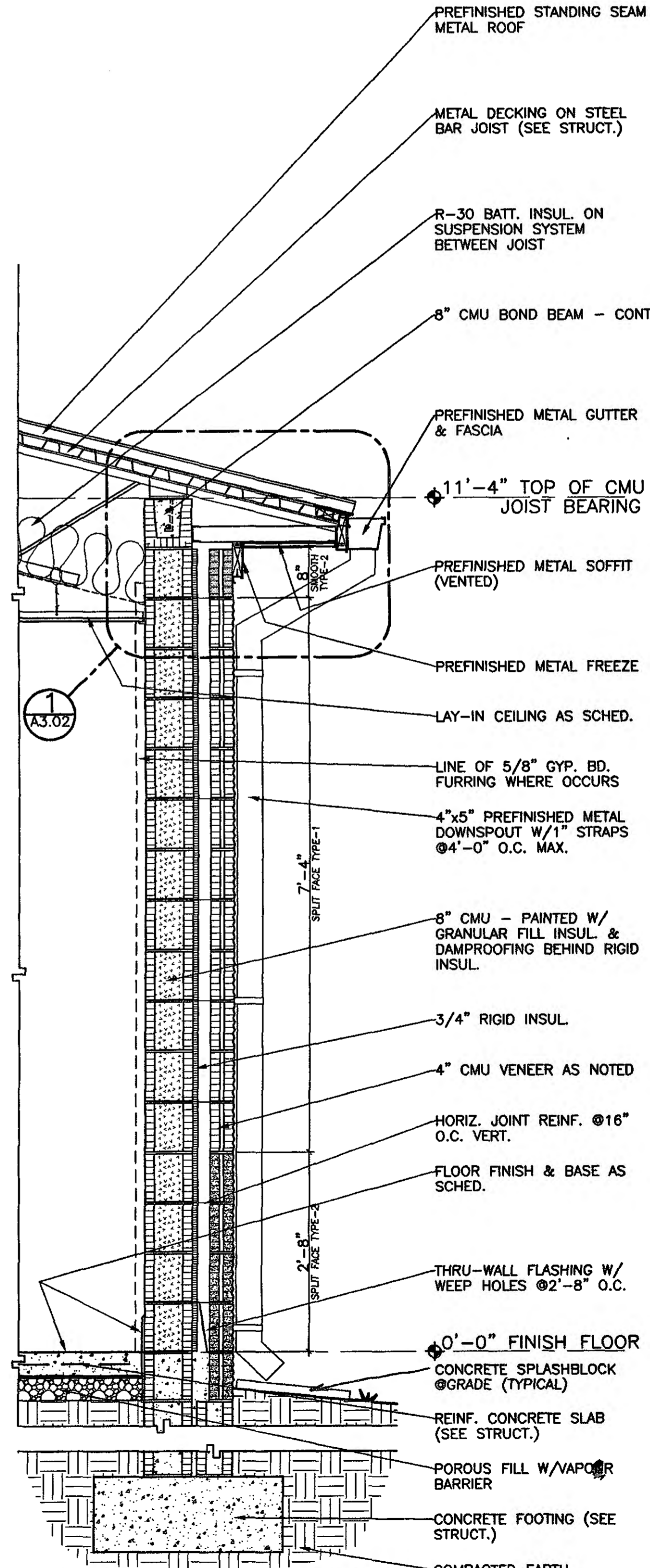
**KEY PLAN**  
SCALE: 1" = 60'-0"



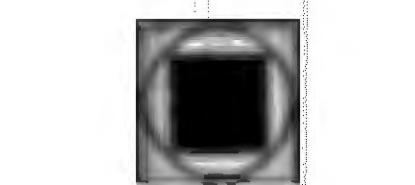
**A WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



**B WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



**C WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING

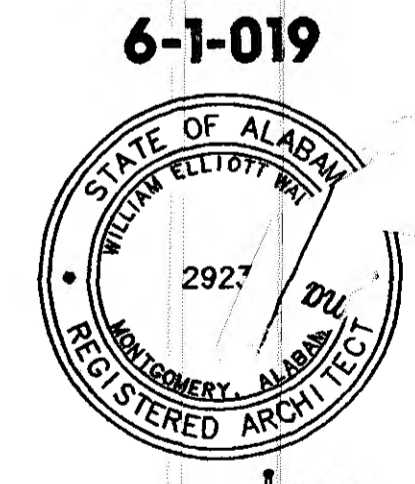
125 Interstate Park Drive, P.O. Box 3895  
Montgomery, Alabama 36109  
Phone: (334) 271-3200  
Fax: (334) 272-1588

1102 South 20<sup>th</sup> Street  
Birmingham, Alabama 35205  
Phone: (205) 879-4462  
Fax: (205) 879-4463

**STRUCTURAL ENGINEER**  
Terry Grant, P.E.  
325 North Hull Street  
Montgomery, Alabama 36104  
Phone: (334) 268-4631

**MECH. & ELEC. ENGINEER**  
Borden & Morris Consulting Engineers, Inc.  
903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 268-0329

A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

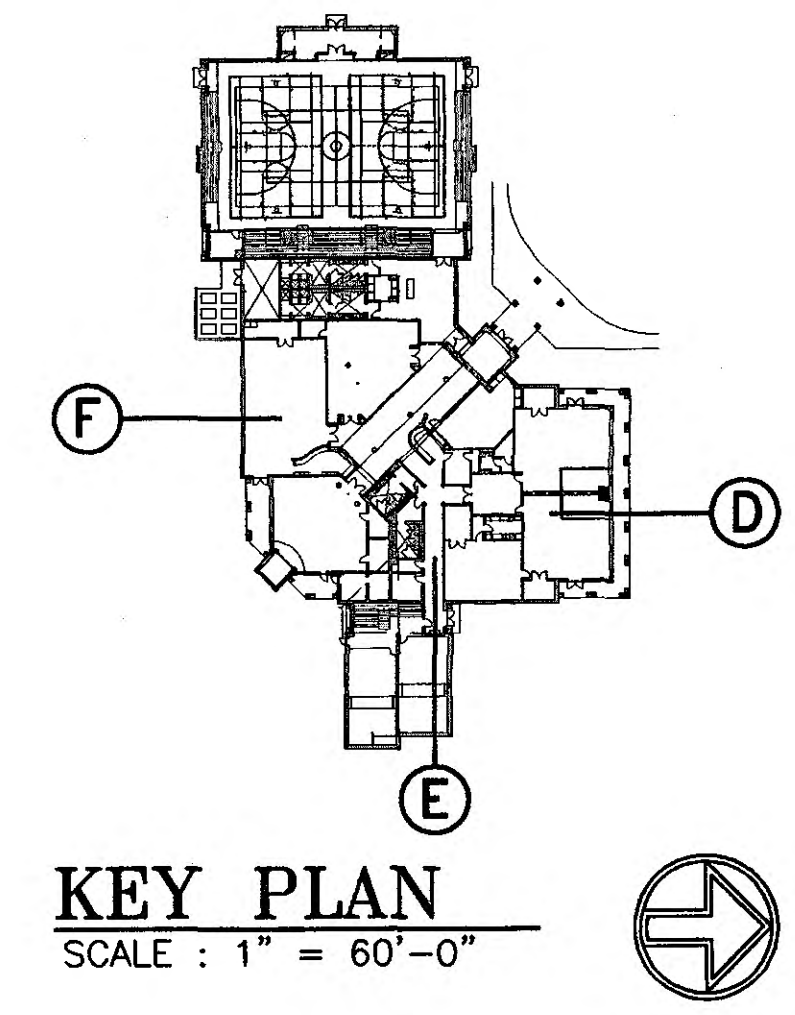
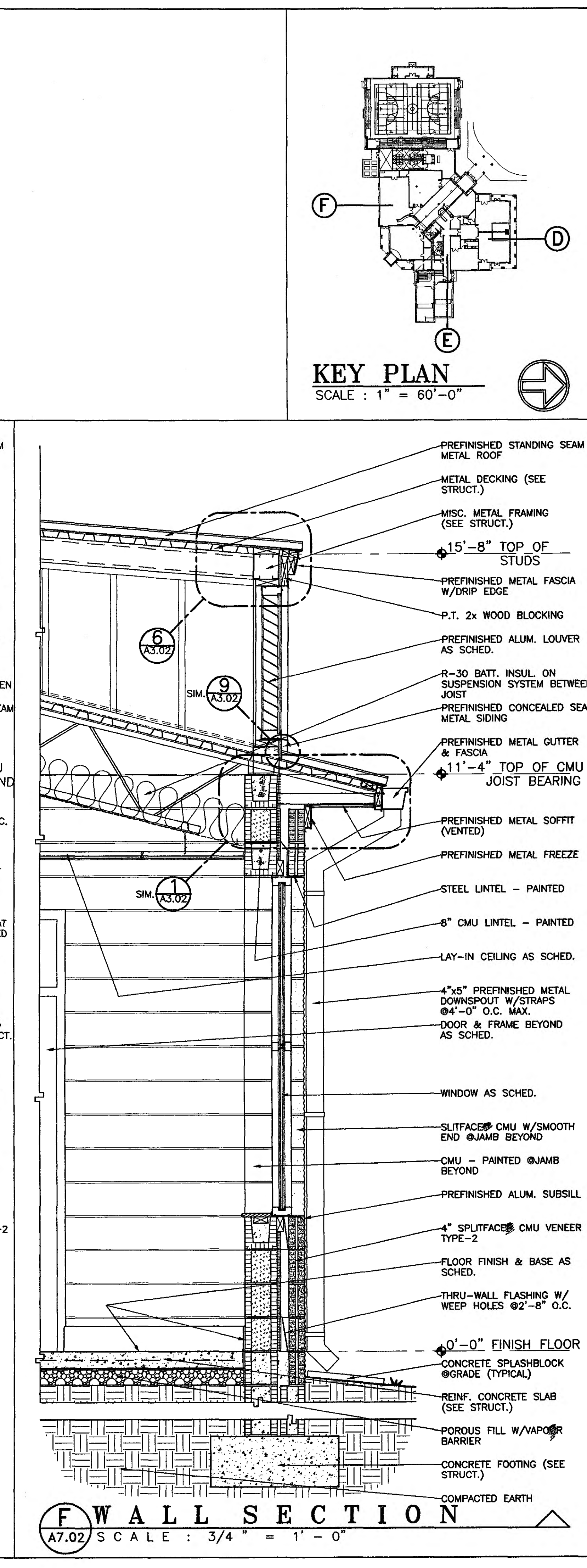
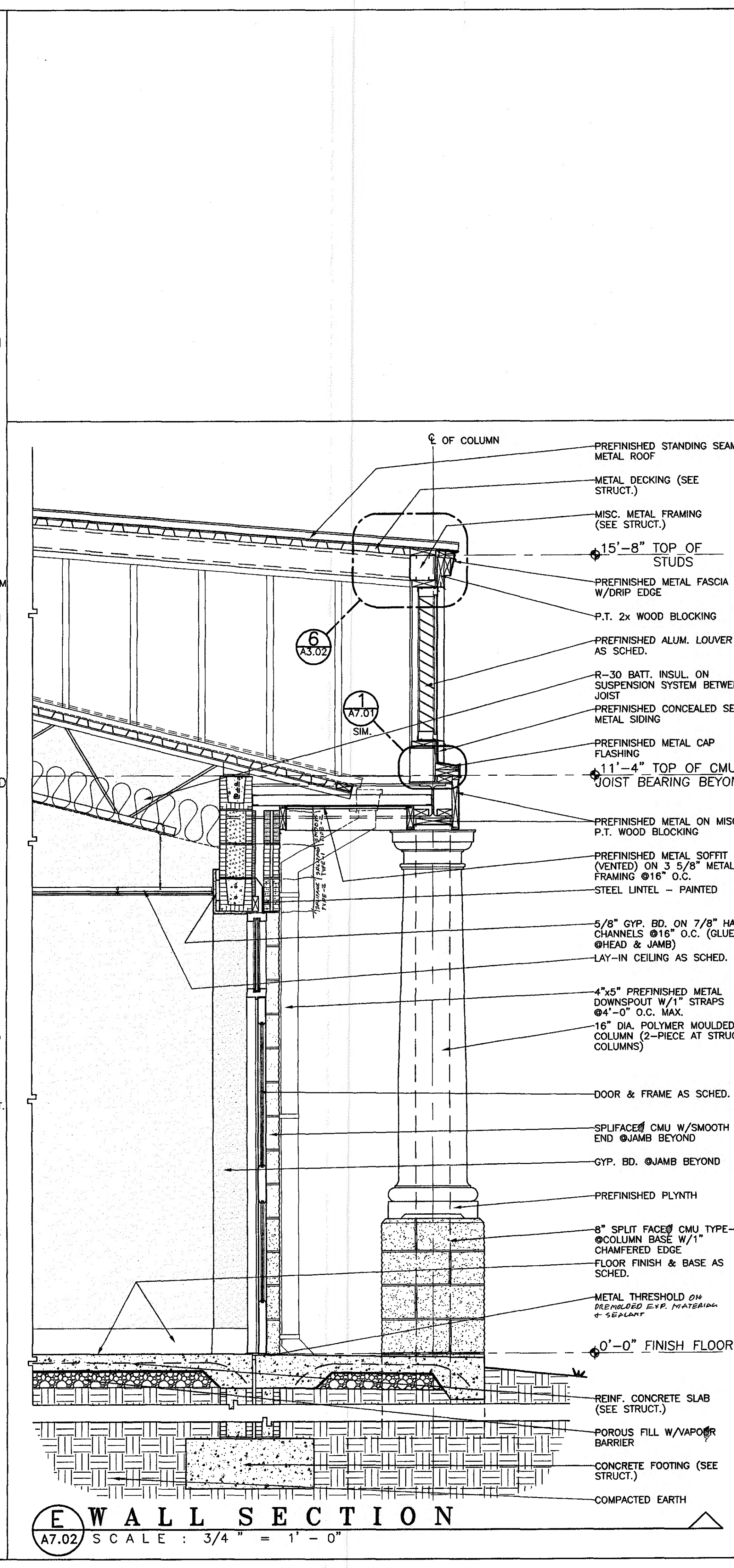
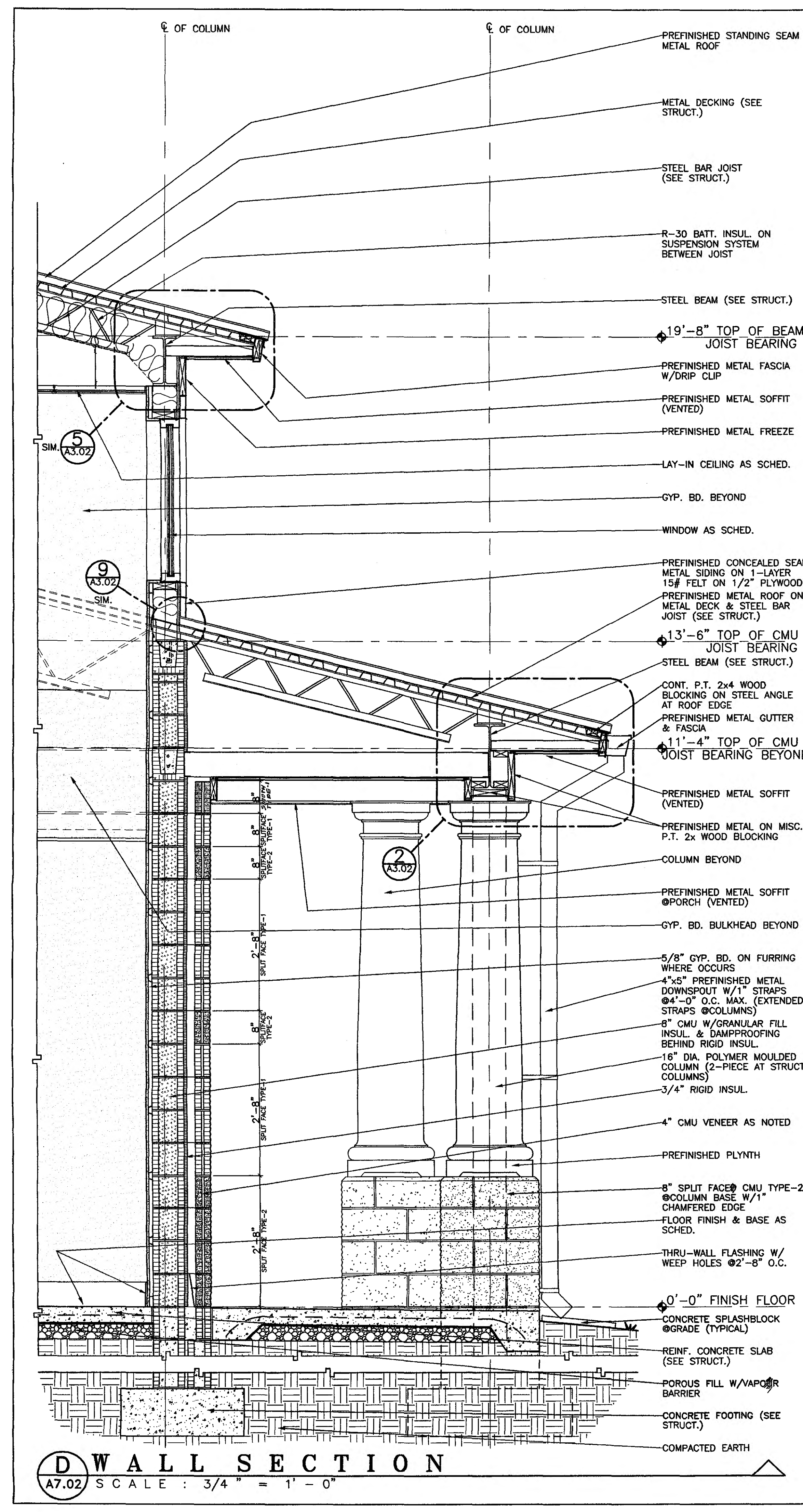


Issue date	
Design Development	08/10/01
FINAL	00/00/01

drawn by: CGB, CED  
**WALL SECTIONS A, B & C AND DETAILS**

95% SUBMITTAL  
**A7.01**  
sheet 00 of 00

2001 Projects 06-1-019 ROD Orange Beach Rec Park\A7.01\Construction.dwg A7.01 Wall, Sbc-A B C.dwg Tue Sep 11 12:44:59 2001



**GOODWYN, MILLS & CAWOOD, INC.**  
 ENGINEERING  
 ARCHITECTURE  
 LANDSCAPE ARCHITECTURE  
 PLANNING

125 Interstate Park Drive, P.O. Box 3605  
 Montgomery, Alabama 36109  
 Phone: (334) 271-3200  
 Fax: (334) 272-1599

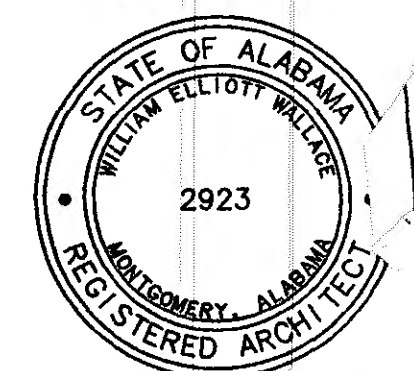
1102 South 20th Street  
 Birmingham, Alabama 35205  
 Phone: (205) 878-4442  
 Fax: (205) 878-4493

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 Terry Grant, P.E.  
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**MECH. & EL. ENG. ENGINEER**  
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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

**6-1-019**



Issue	date
Design Development	08/10/01
FINAL	00/00/01

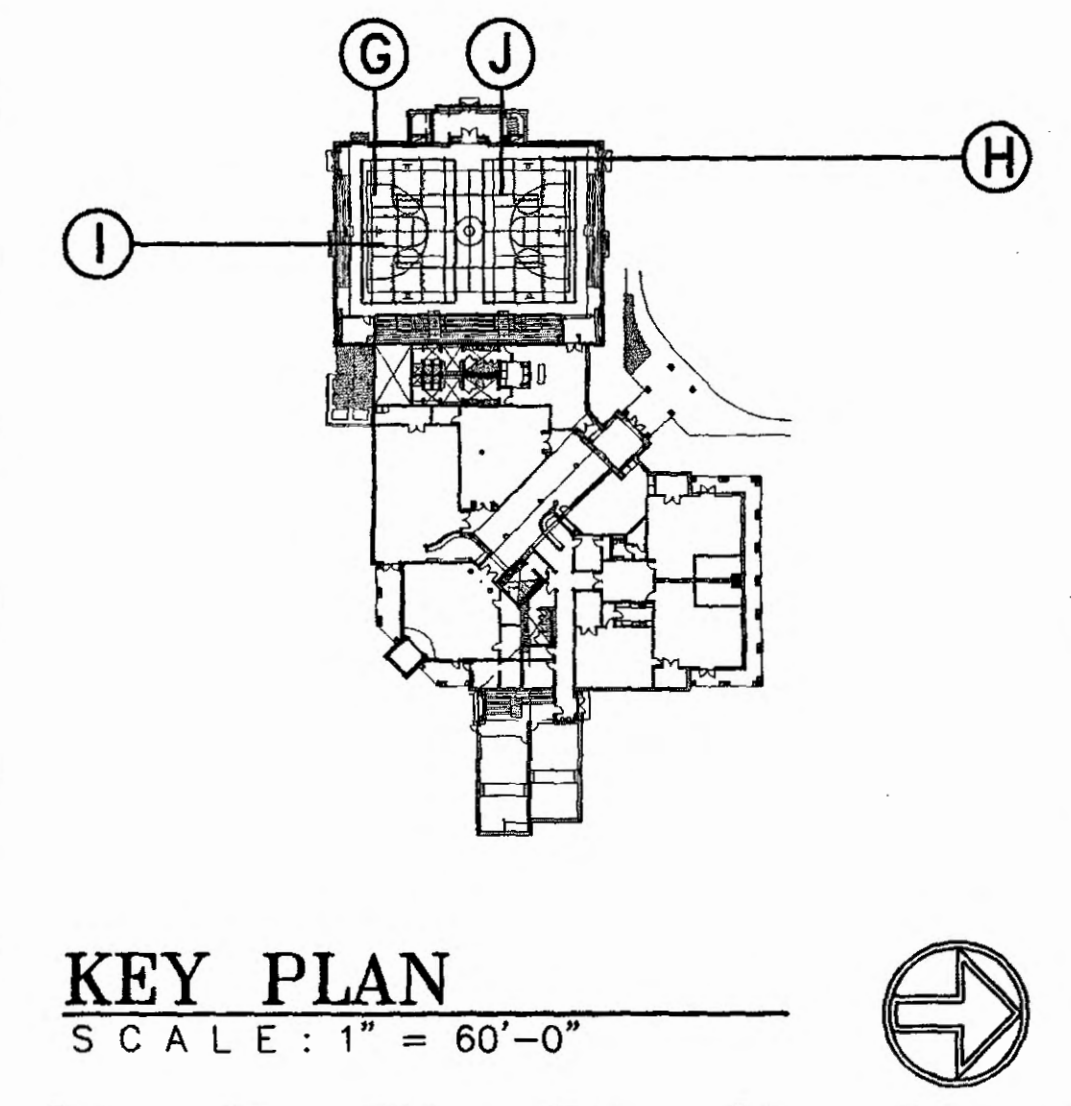
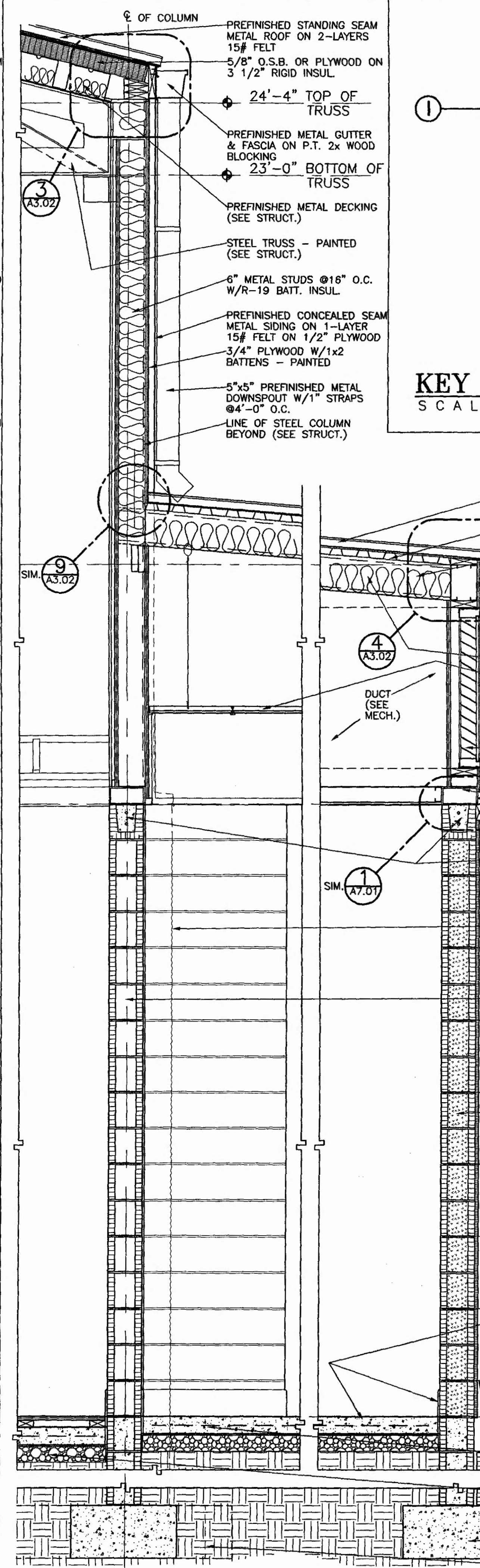
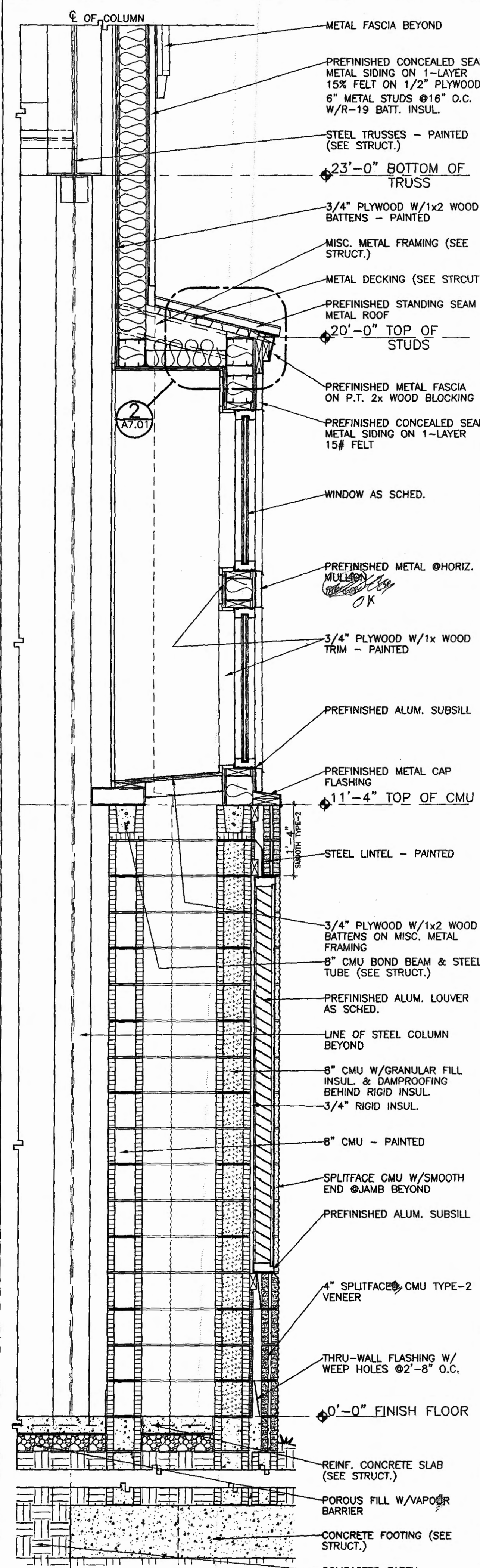
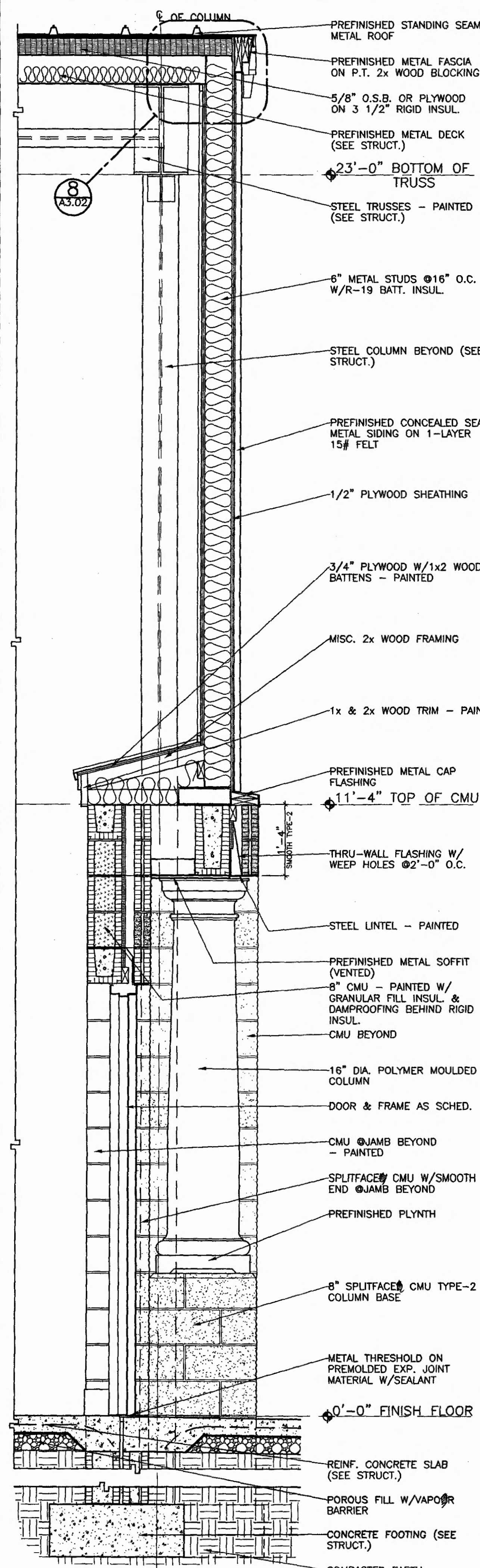
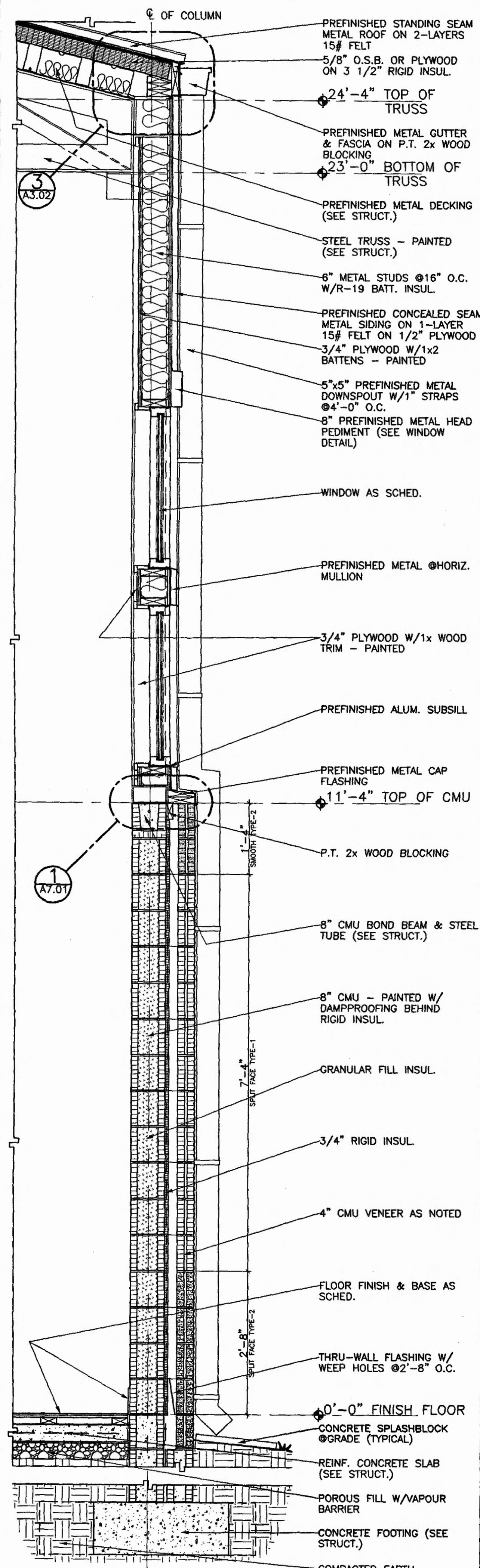
drawn by: CGB, CED

**WALL SECTIONS D, E & F AND DETAILS**

95% SUBMITTAL

**A7.02**  
 sheet 00 of 00

V2001 Projects\6-1-019 ROD Orange Beach Rec Park\A7.02 Construction.dwg\A7.02 Wall Section D, E, F.dwg Tue Sep 11 13:19:12 2001



**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING  
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
PLANNING  
125 Interstate Park Drive, P.O. Box 3606  
Montgomery, Alabama 36109  
Phone: (334) 271-3209  
Fax: (334) 272-1566  
1102 South 20th Street  
Birmingham, Alabama 35205  
Phone: (205) 878-4462  
Fax: (205) 879-4493

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Montgomery, Alabama 36104  
Phone: (334) 265-4631  
**MECH. & ELEC. ENGINEER**  
Borden & Morie Consulting Engineers, Inc.  
909 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 269-0329

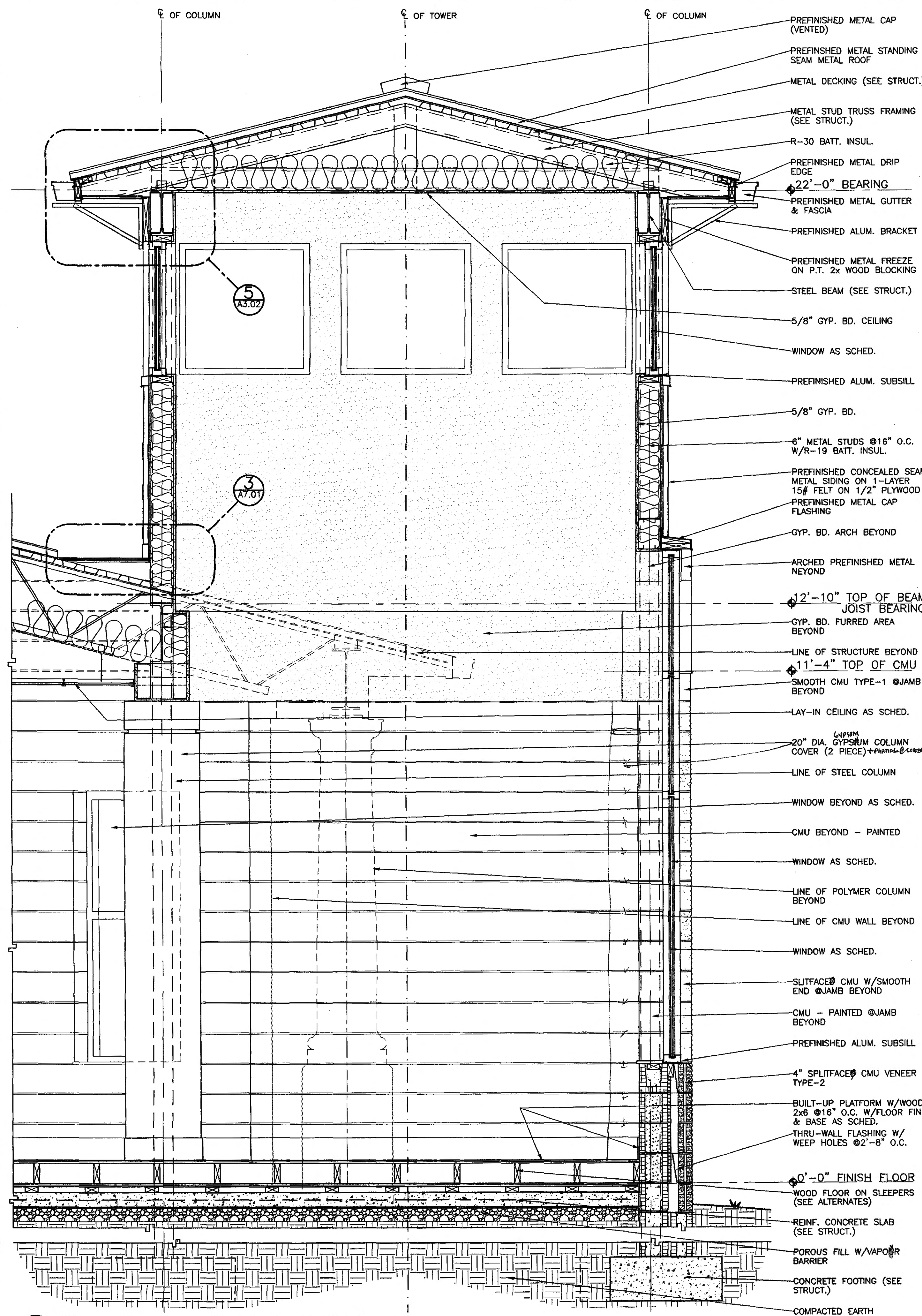
A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019  
STATE OF ALABAMA  
WALTER ELLIOTT WALKER  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

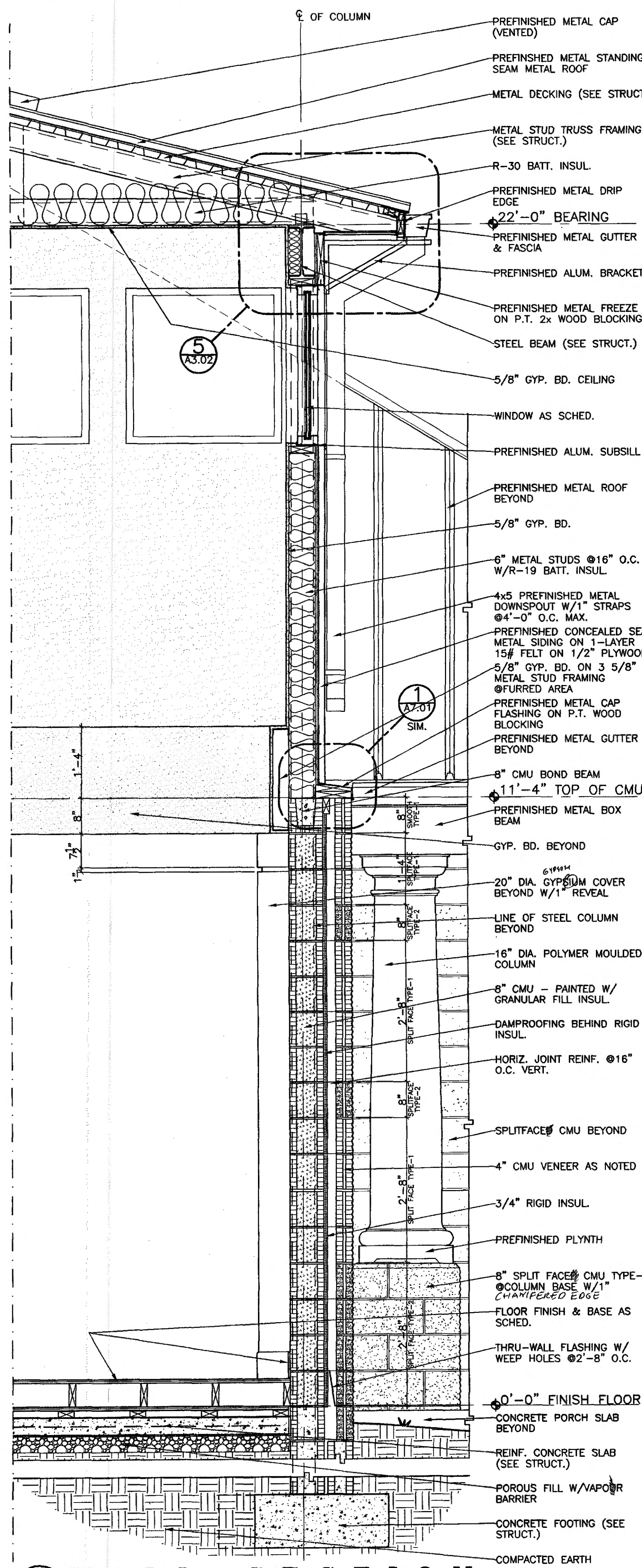
Issue	date
Design Development	08/10/01
FINAL	00/00/01

drawn by: CGB, CED  
**WALL SECTIONS G, H, I & J**  
95% SUBMITTAL  
**A7.03**  
sheet 00 of 00

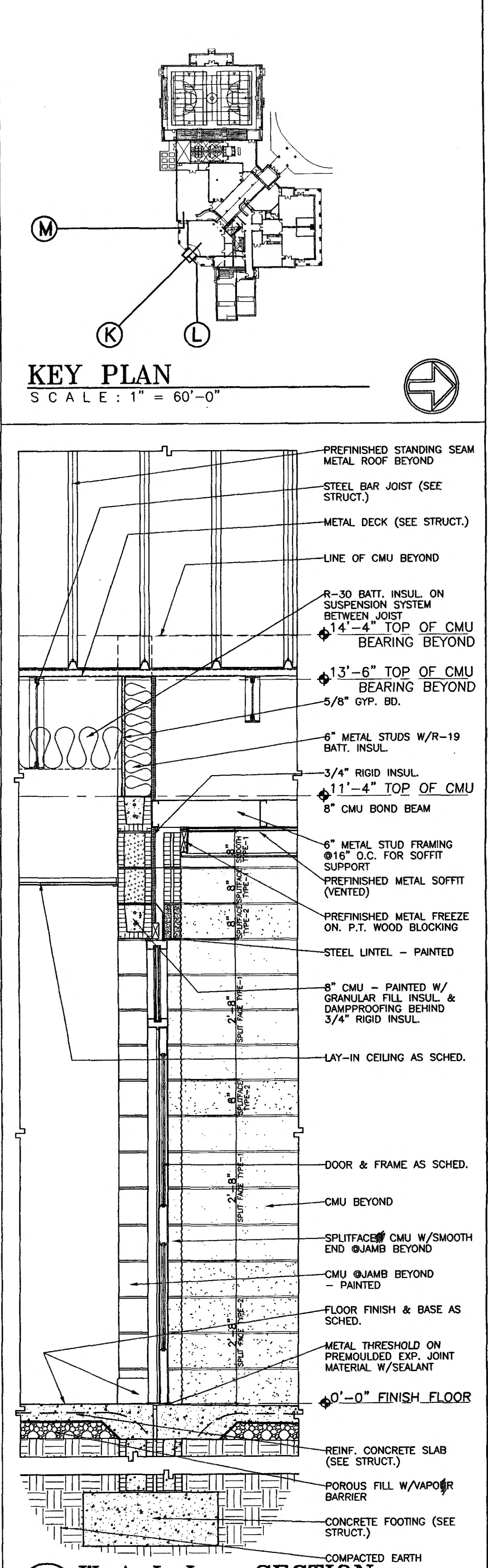
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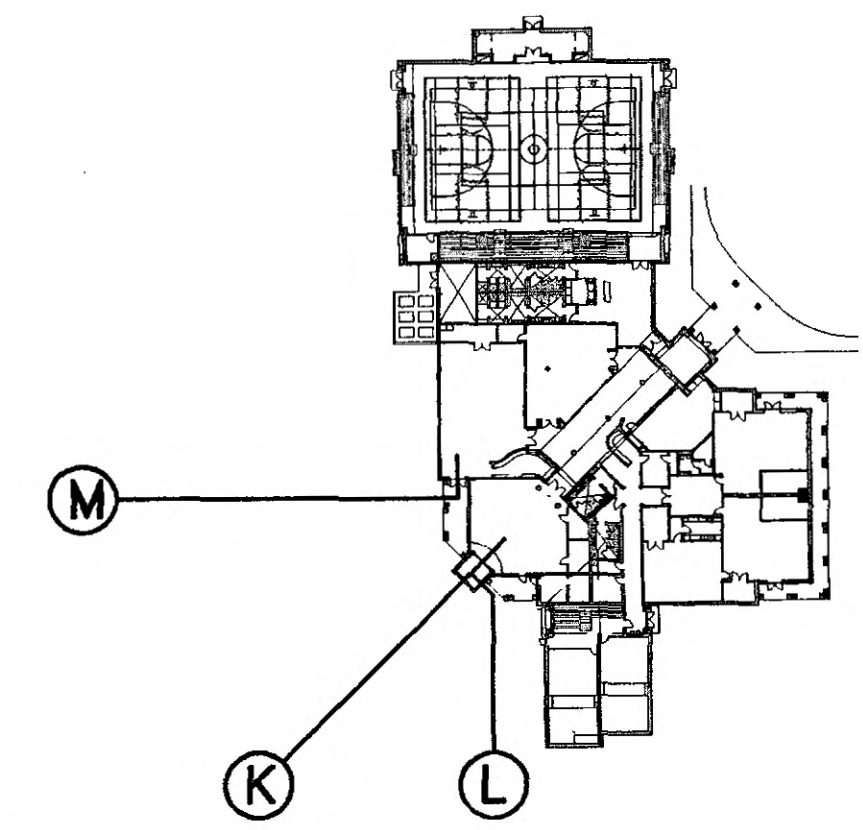
**K WALL SECTION**  
A7.04 SCALE: 3/4" = 1'-0"



**L WALL SECTION**  
A7.04 SCALE: 3/4" = 1'-0"



**M WALL SECTION**  
A7.04 SCALE: 3/4" = 1'-0"



**KEY PLAN**  
SCALE: 1" = 60'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 3605  
Montgomery, Alabama 36109  
Phone: (334) 271-3200 Fax: (334) 272-1566  
1102 South 20th Street  
Birmingham, Alabama 35205  
Phone: (205) 878-4622 Fax: (205) 878-4483

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Terry Grant, P.E.  
325 North Hill Street  
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**MECH. & ELEC. ENGINEER**  
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903 South Perry Street  
Montgomery, Alabama 36104  
Phone: (334) 288-0329

**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

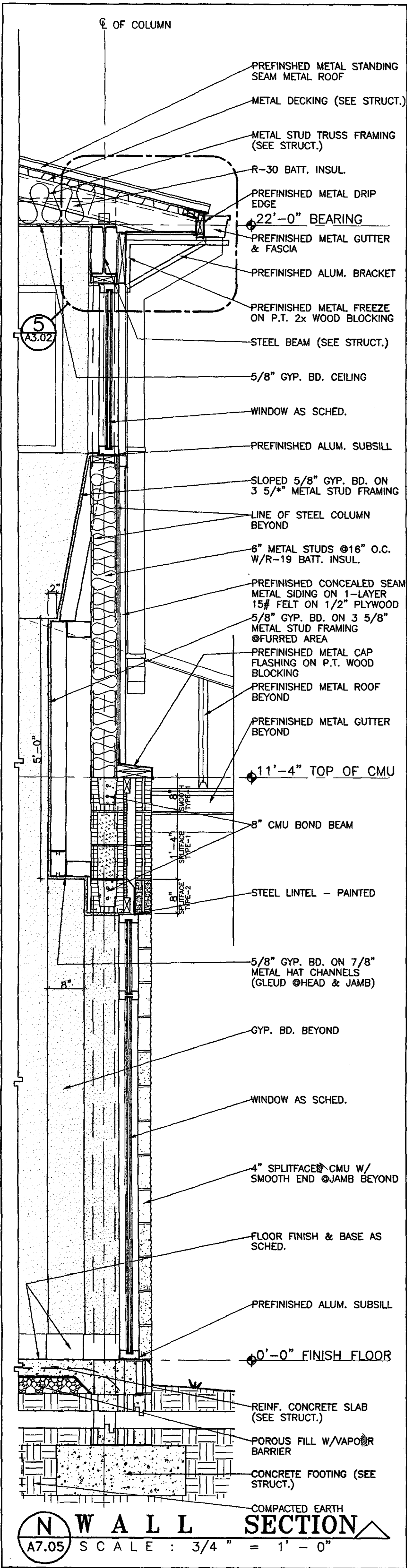
6-1-019  
STATE OF ALABAMA  
WALTER ELLIOTT WALKER  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue	date
Design Development	08/10/01
FINAL	00/00/01

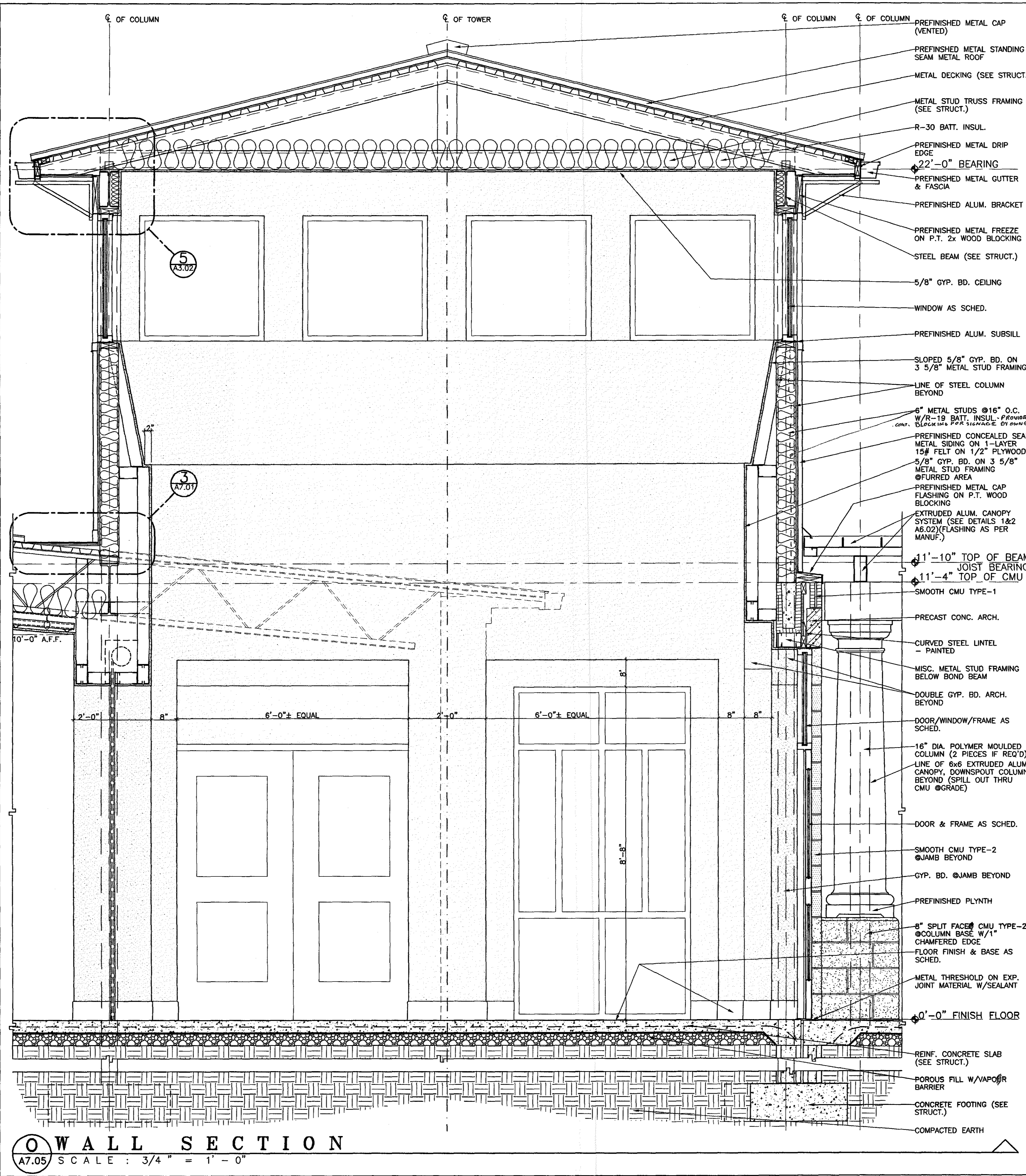
drawn by: CGB, CED  
**WALL SECTIONS K, L & M**

95% SUBMITTAL  
**A7.04**  
sheet 00 of 00

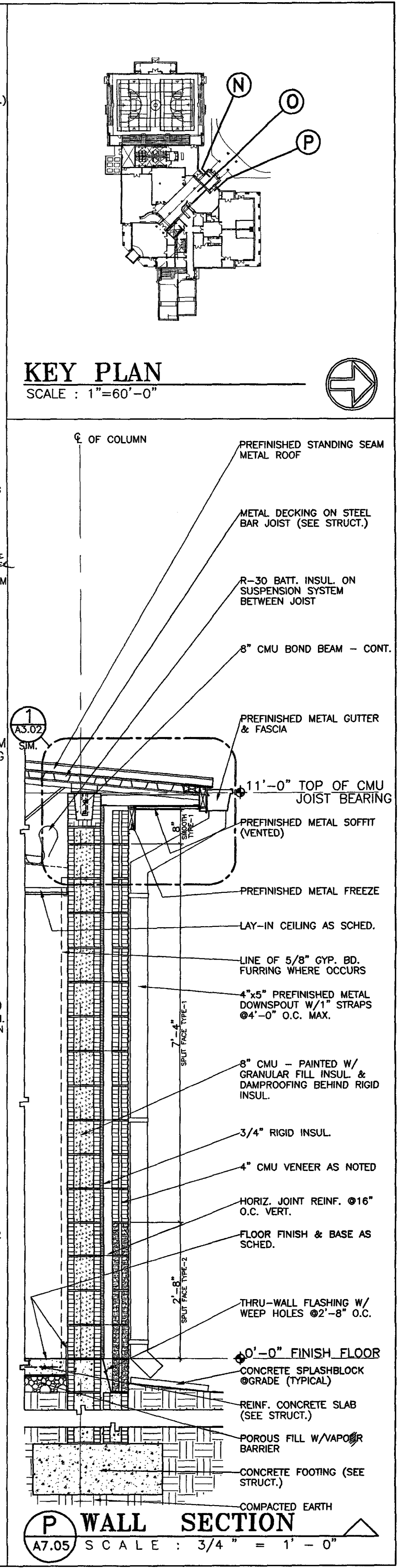
2001 Projects 06-1-019 R00 Orange Beach Rec Park W/Construction dgs A7.04 Wall Section L M.dwg Tue Sep 11 15:20:52 2001



**N WALL SECTION**  
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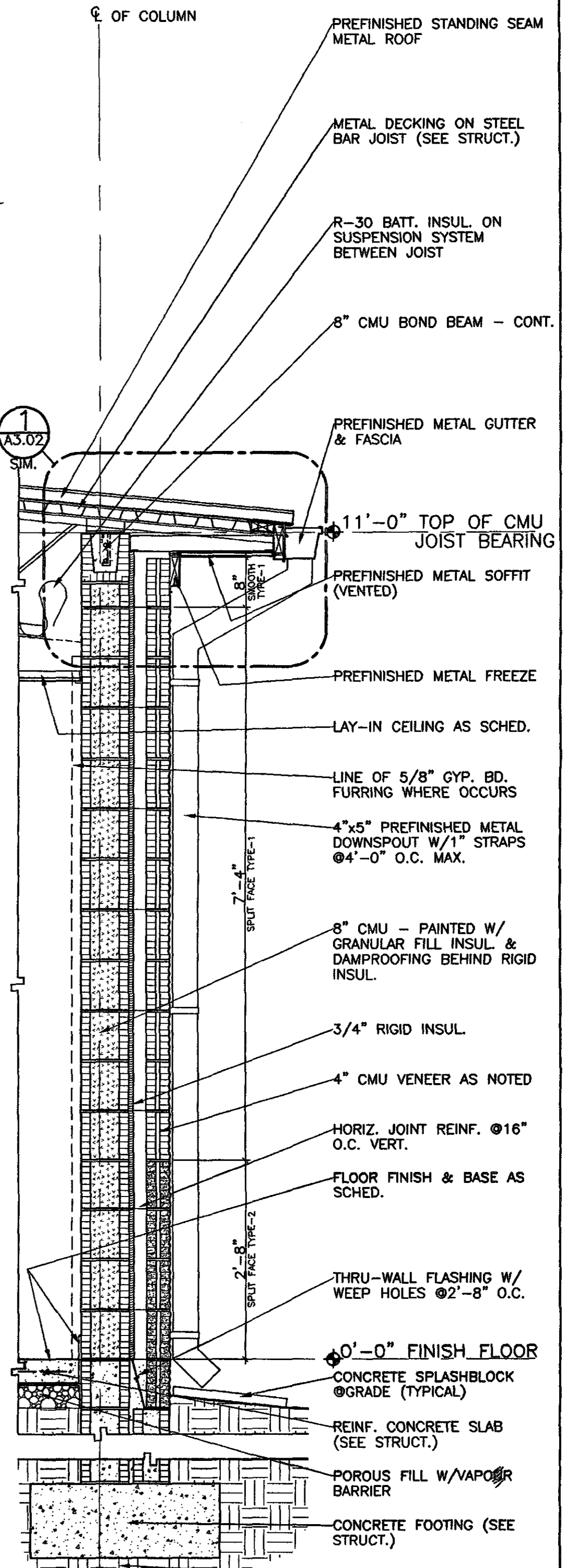


**O WALL SECTION**  
 A7.05 SCALE : 3/4" = 1' - 0"



**P WALL SECTION**  
 A7.05 SCALE : 3/4" = 1' - 0"

**KEY PLAN**  
 SCALE : 1" = 60'-0"



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**MECH. & ELEC. ENGINEER**  
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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019

STATE OF ALABAMA  
 WILLIAM ELDTOTY REICHER  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue date	
Design Development	08/10/01
FINAL	00/00/01

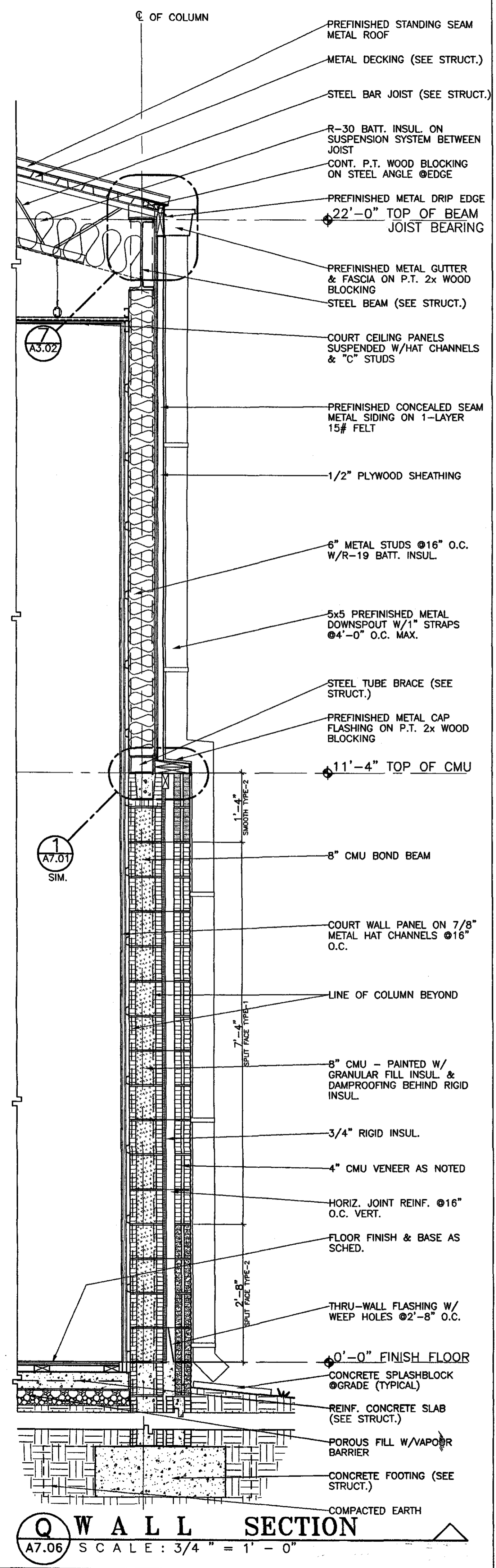
drawn by: CGB, CED

**WALL SECTIONS N, O & P**

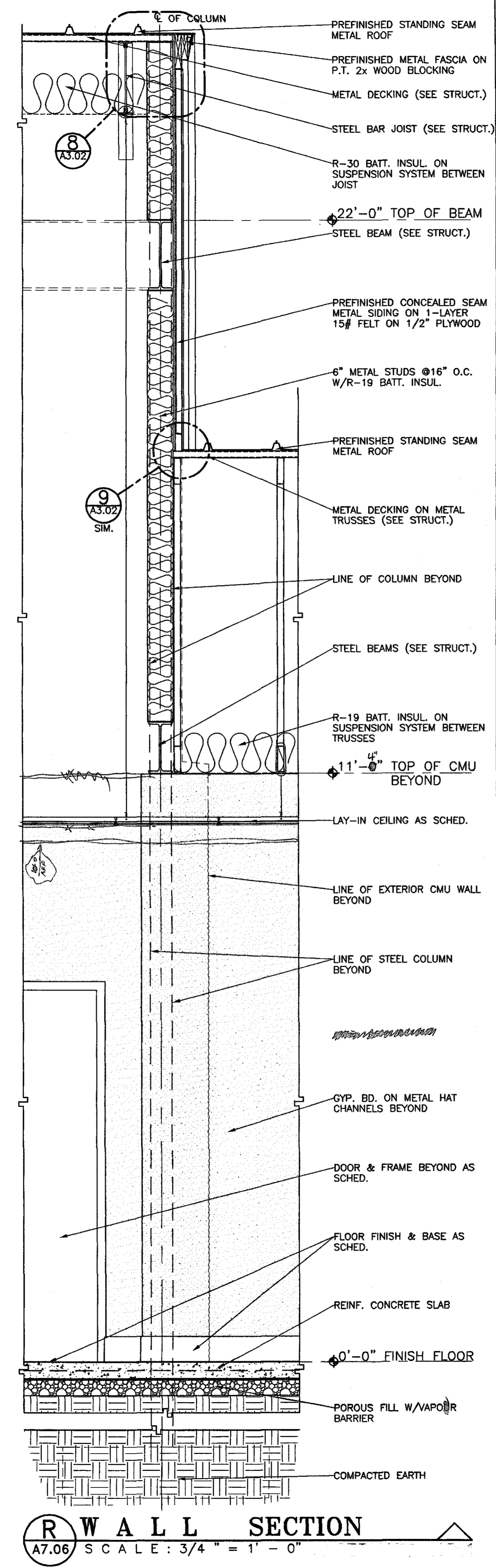
95% SUBMITTAL

**A7.05**  
 sheet 00 of 00

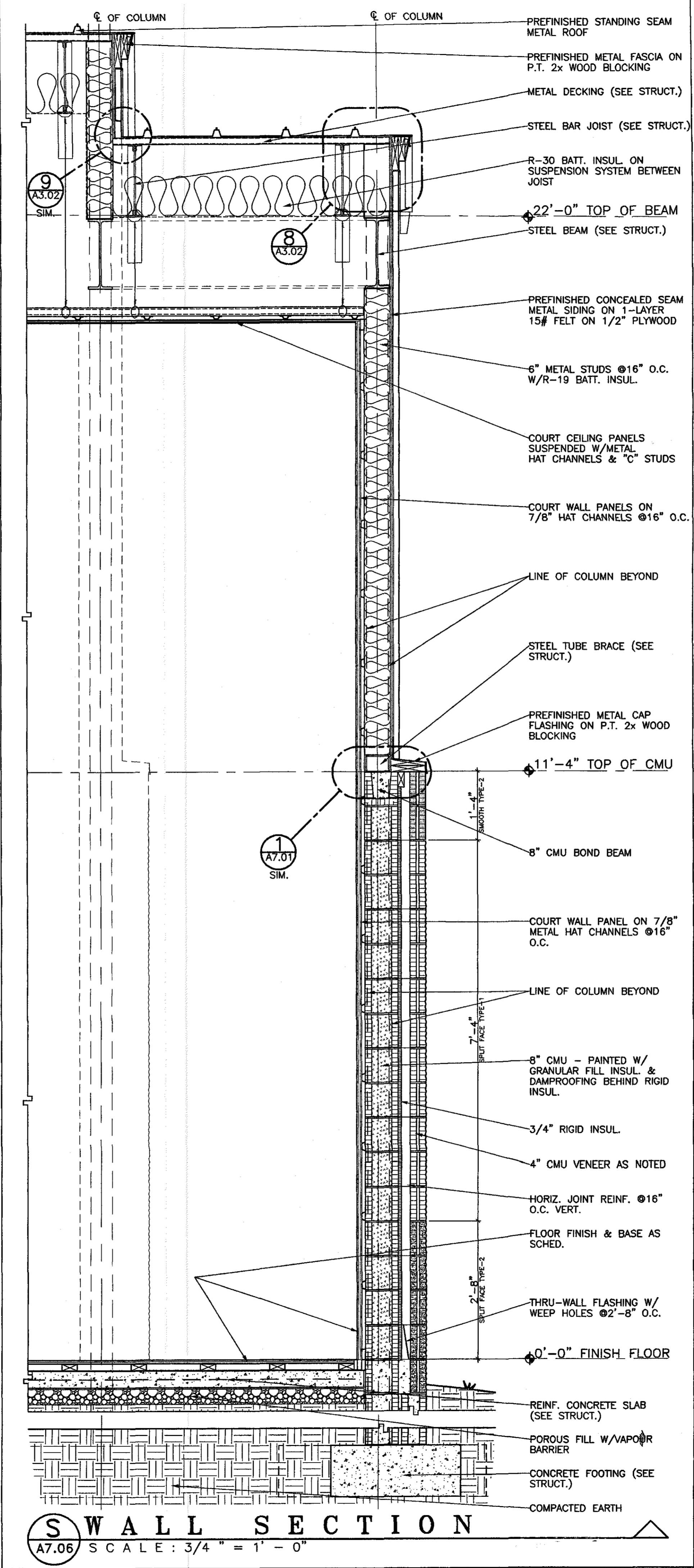
2001 Projects G-1-019 R00 Orange Beach Rec Park W/Construction dwgs A7.05 Wall Section O.P.dwg Tue Sep 11 15:59:53 2001



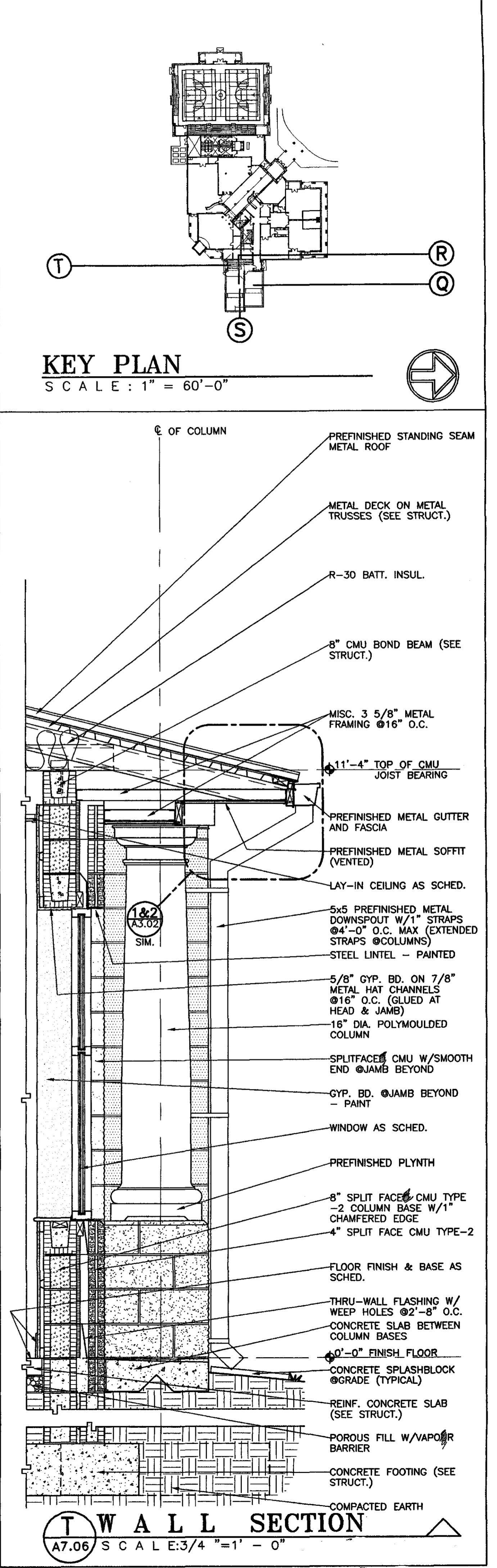
**Q WALL SECTION**  
A7.06 SCALE: 3/4" = 1' - 0"



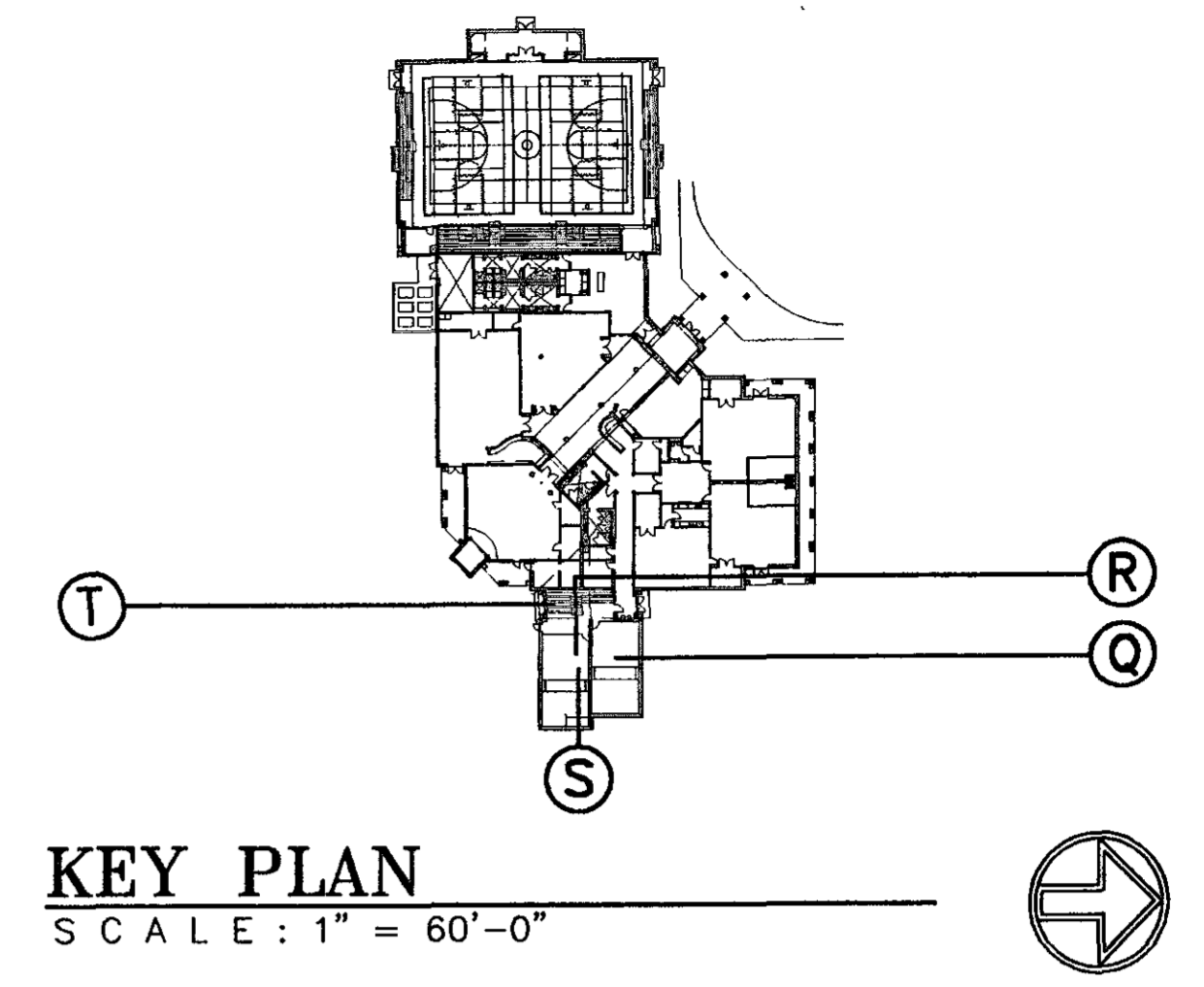
**R WALL SECTION**  
A7.06 SCALE: 3/4" = 1' - 0"



**S WALL SECTION**  
A7.06 SCALE: 3/4" = 1' - 0"



**T WALL SECTION**  
A7.06 SCALE: 3/4" = 1' - 0"



**KEY PLAN**  
SCALE: 1" = 60'-0"

**GOODWYN, MILLS & CAWOOD, INC.**  
ENGINEERING ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING  
125 Interstate Park Drive, P.O. Box 3605  
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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

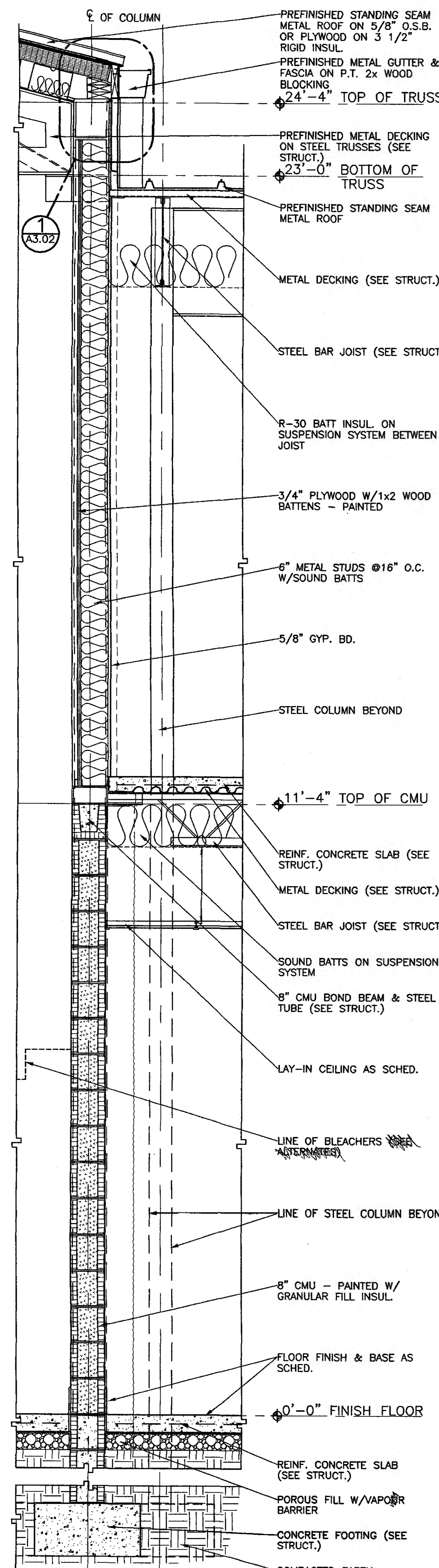
6-1-019  
STATE OF ALABAMA  
BRIAN ELLIOTT MITCHELL  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT  
2923

Issue	date
Design Development	08/10/01
FINAL	00/00/01

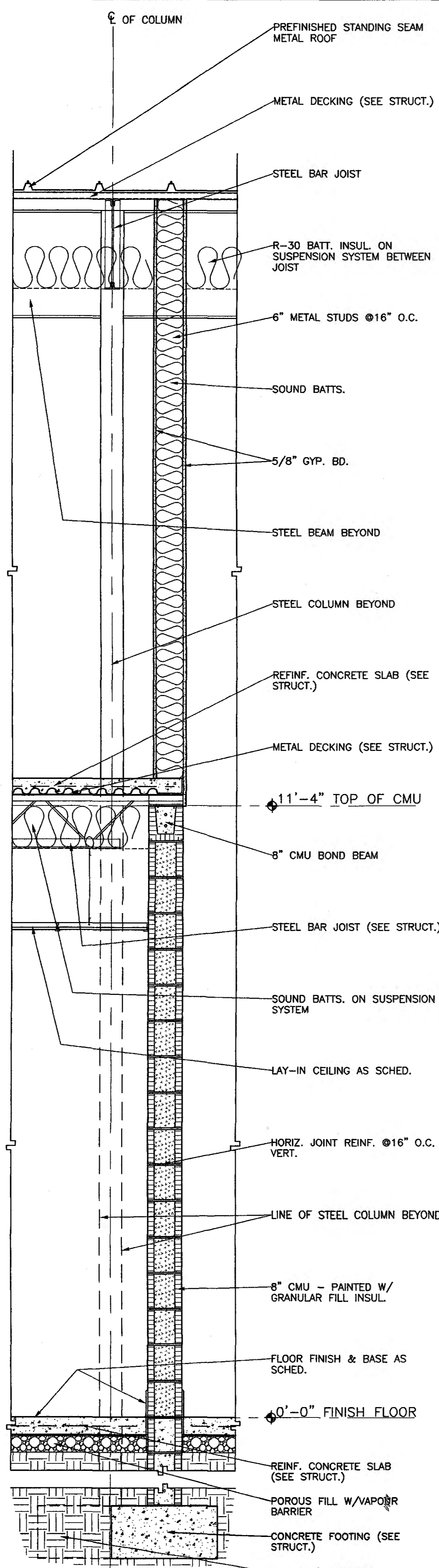
drawn by: CGB, CED  
**WALL SECTIONS Q, R, S & T**

95% SUBMITTAL  
**A7.06**  
sheet 00 of 00

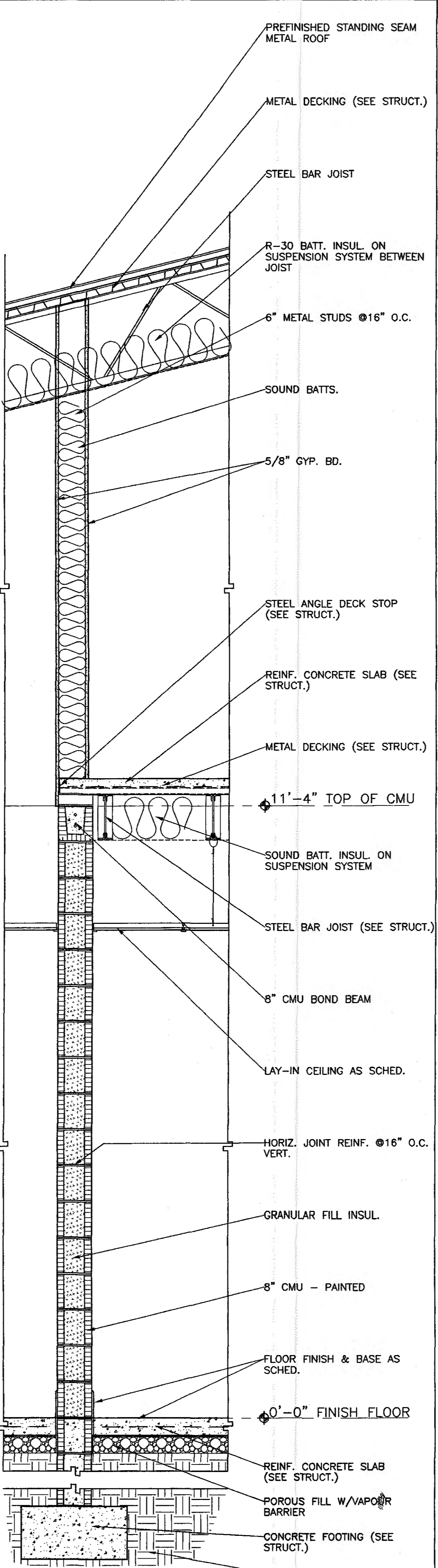
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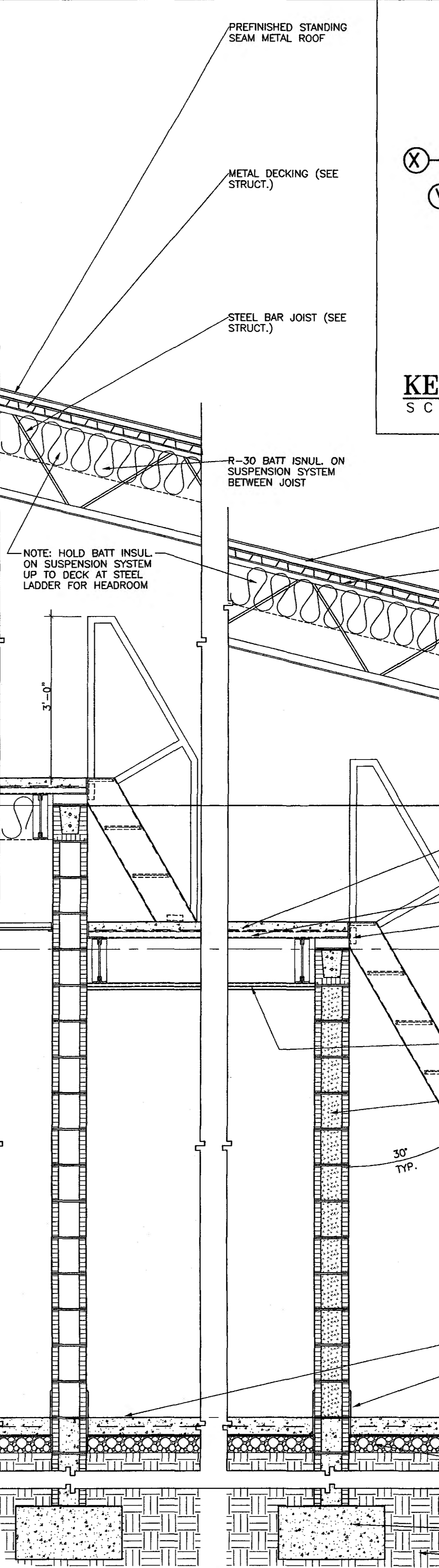
**U WALL SECTION**  
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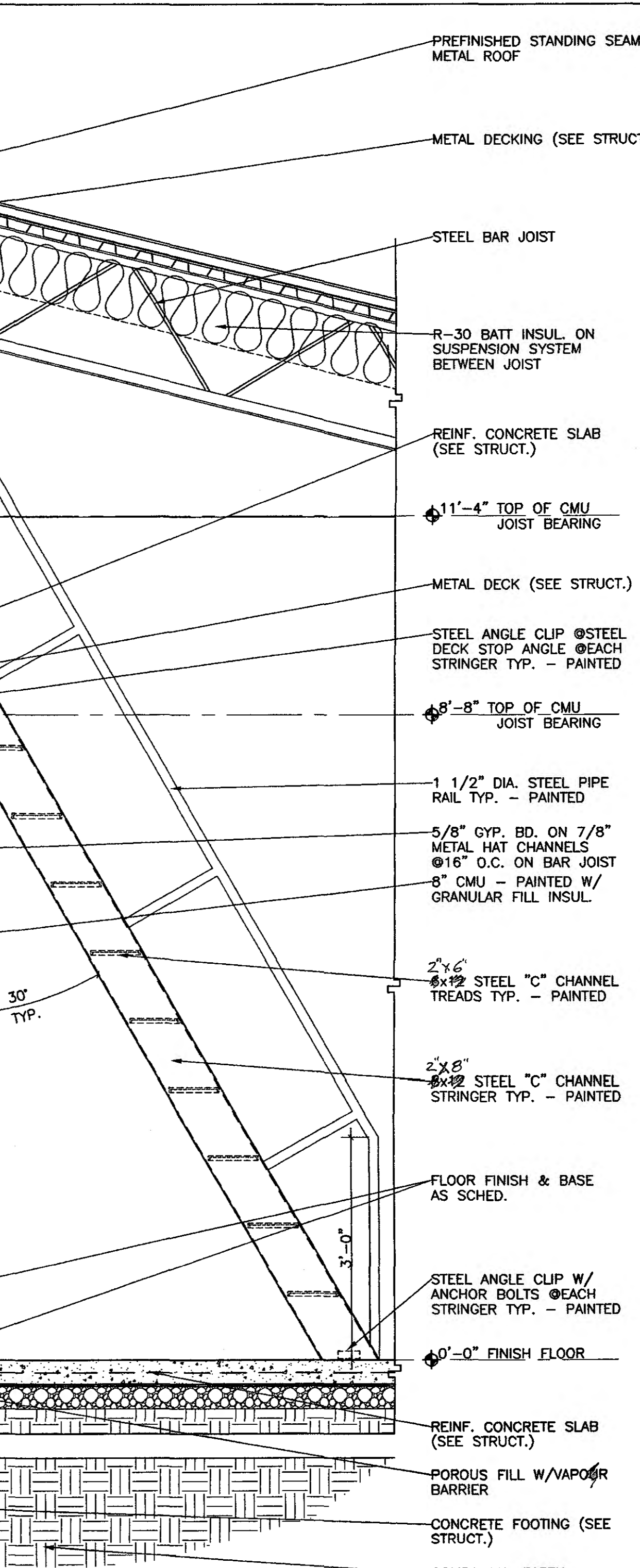
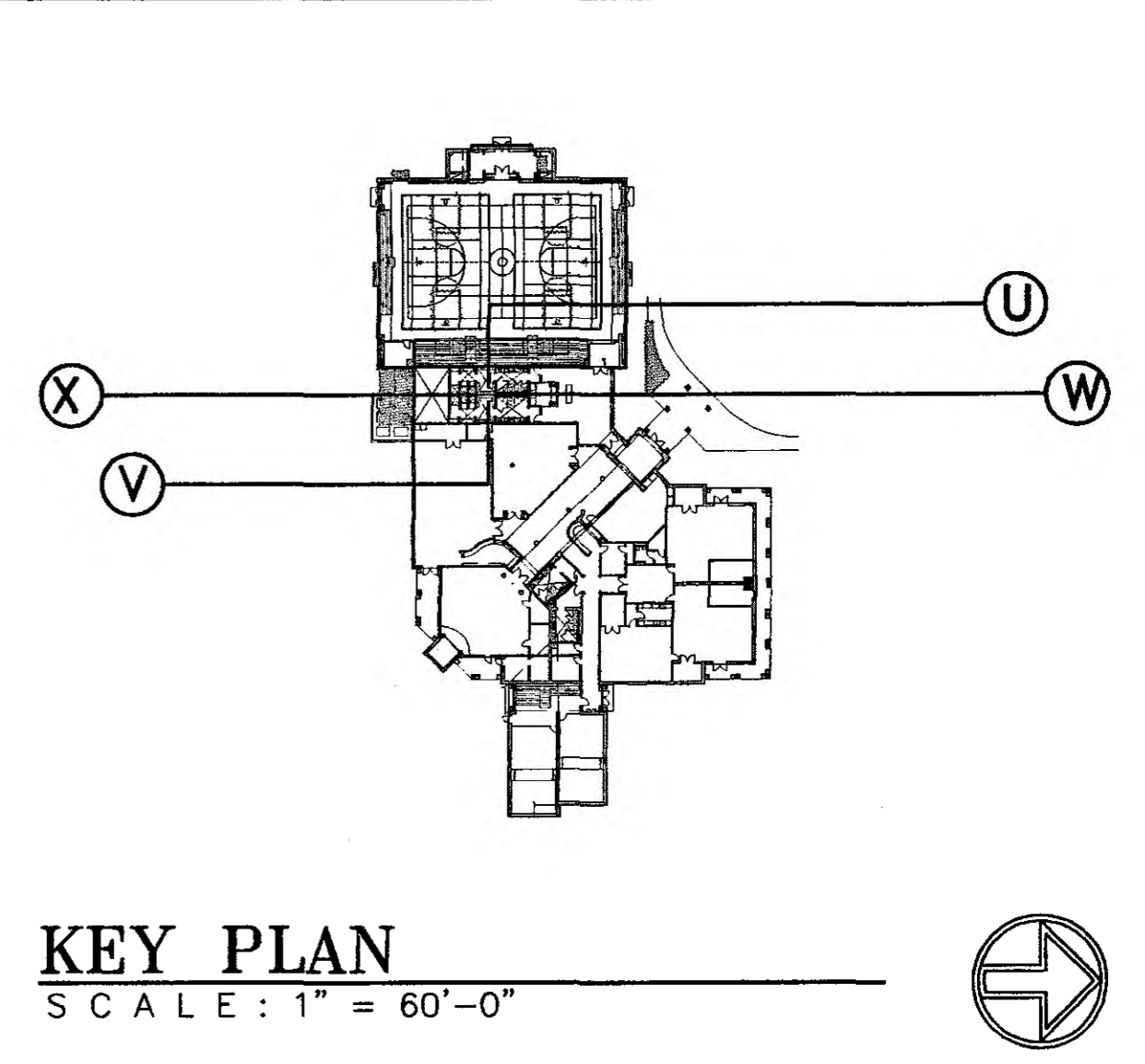
**V WALL SECTION**  
A7.07 SCALE: 3/4" = 1'-0"



**W WALL SECTION**  
A7.07 SCALE: 3/4" = 1'-0"



**X WALL SECTION**  
A7.07 SCALE: 3/4" = 1'-0"



**Y WALL SECTION**  
A7.07 SCALE: 3/4" = 1'-0"

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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019

STATE OF ALABAMA  
MUTUAL ELLIOTT BRIDGE  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCH. FIRM

Issue	date
Design Development	08/10/01
FINAL	00/00/01

drawn by: OGB, CED

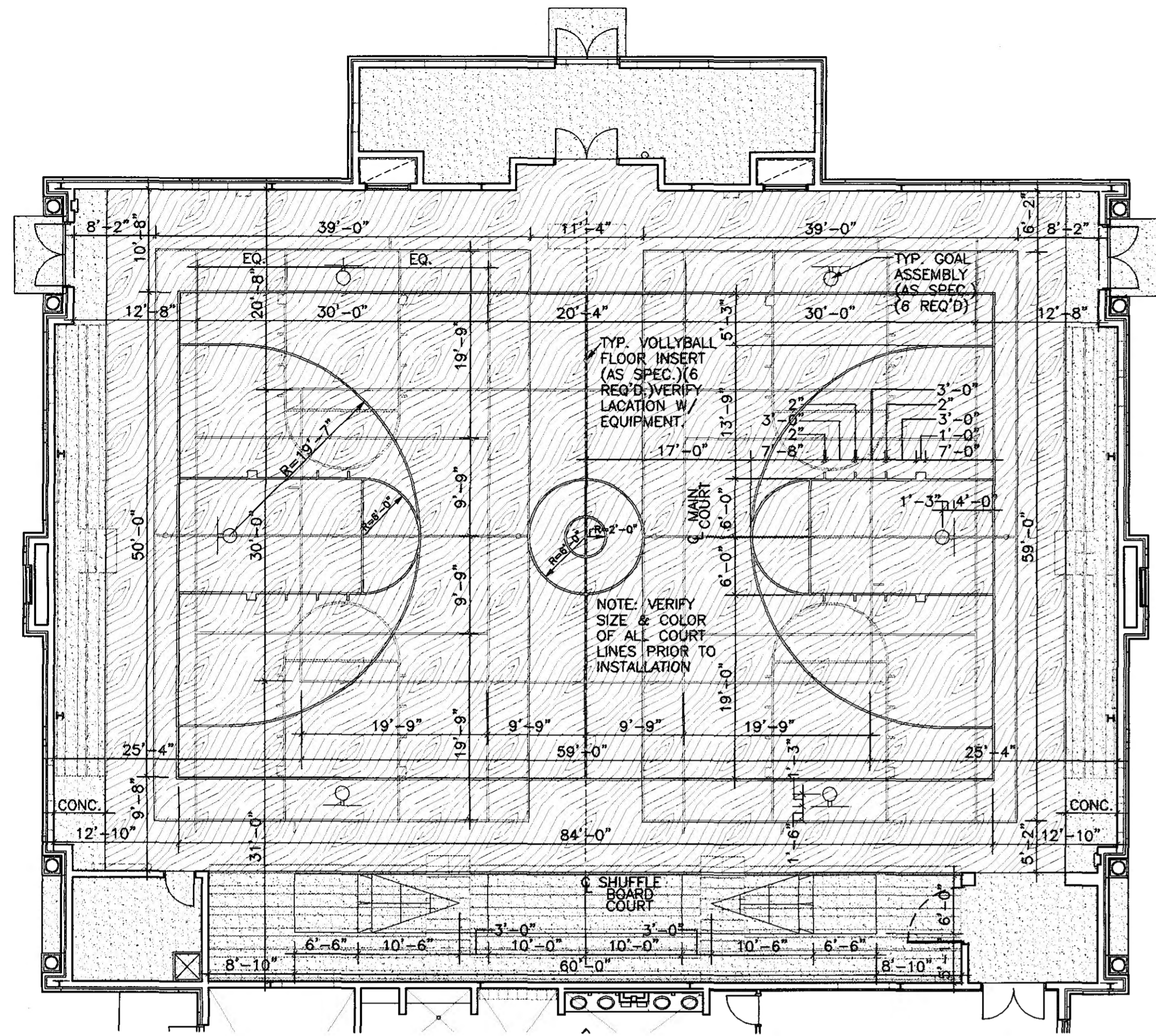
**WALL SECTIONS U, V, W & X**

95% SUBMITTAL

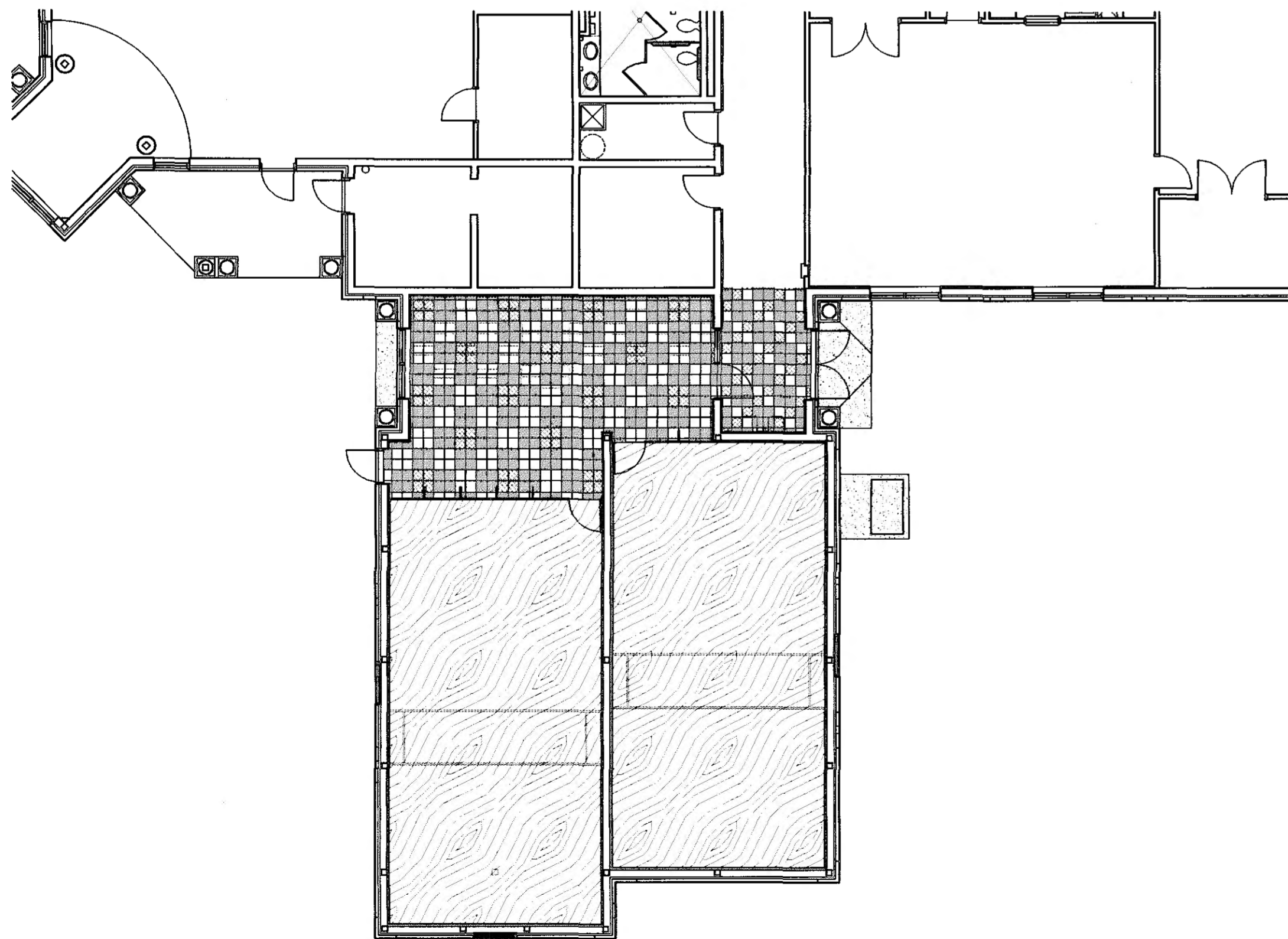
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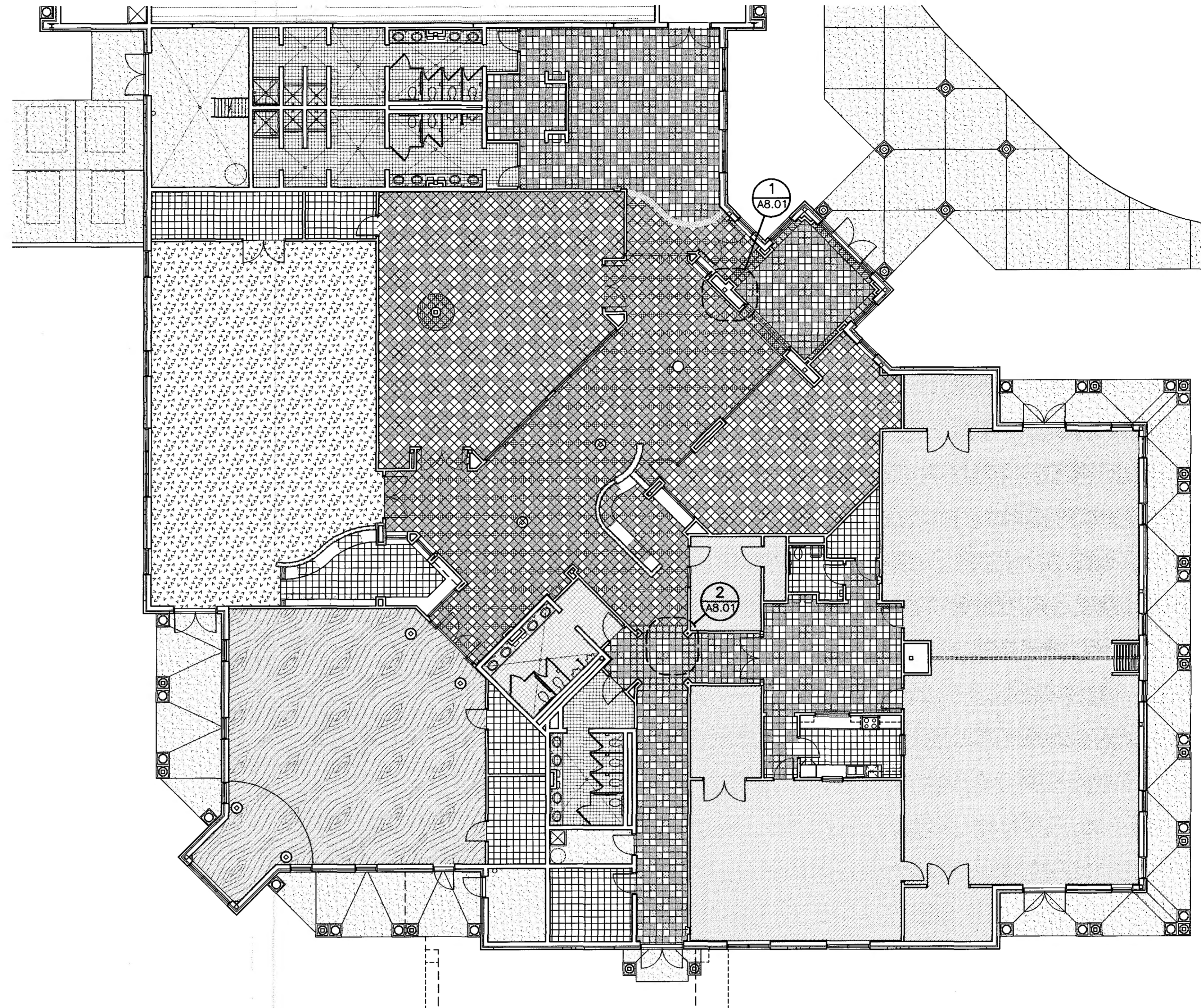
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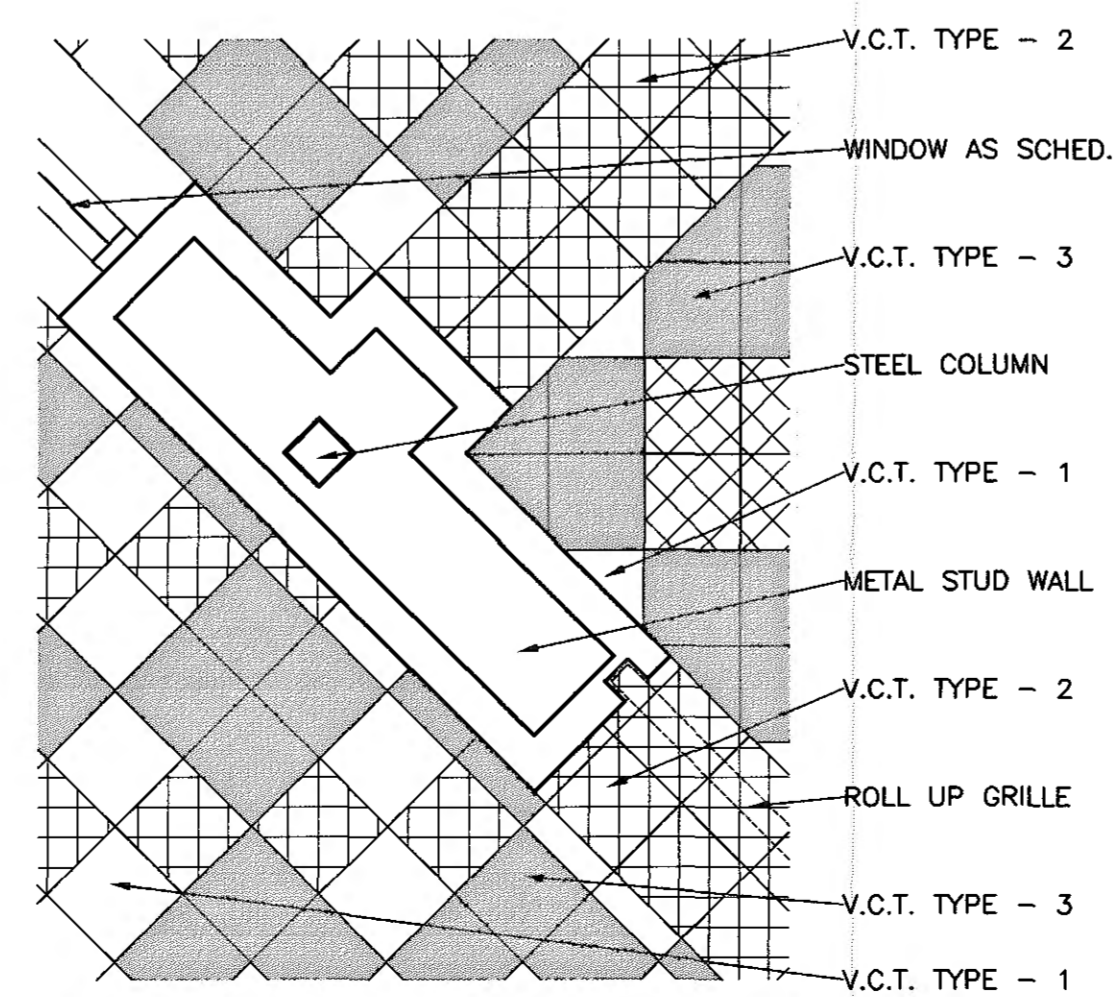
**FLOOR PATTERN PLAN (PART A)** BID ITEM No. 1  
 SCALE: 3/32" = 1'-0"  
 COURT LAYOUT PLAN



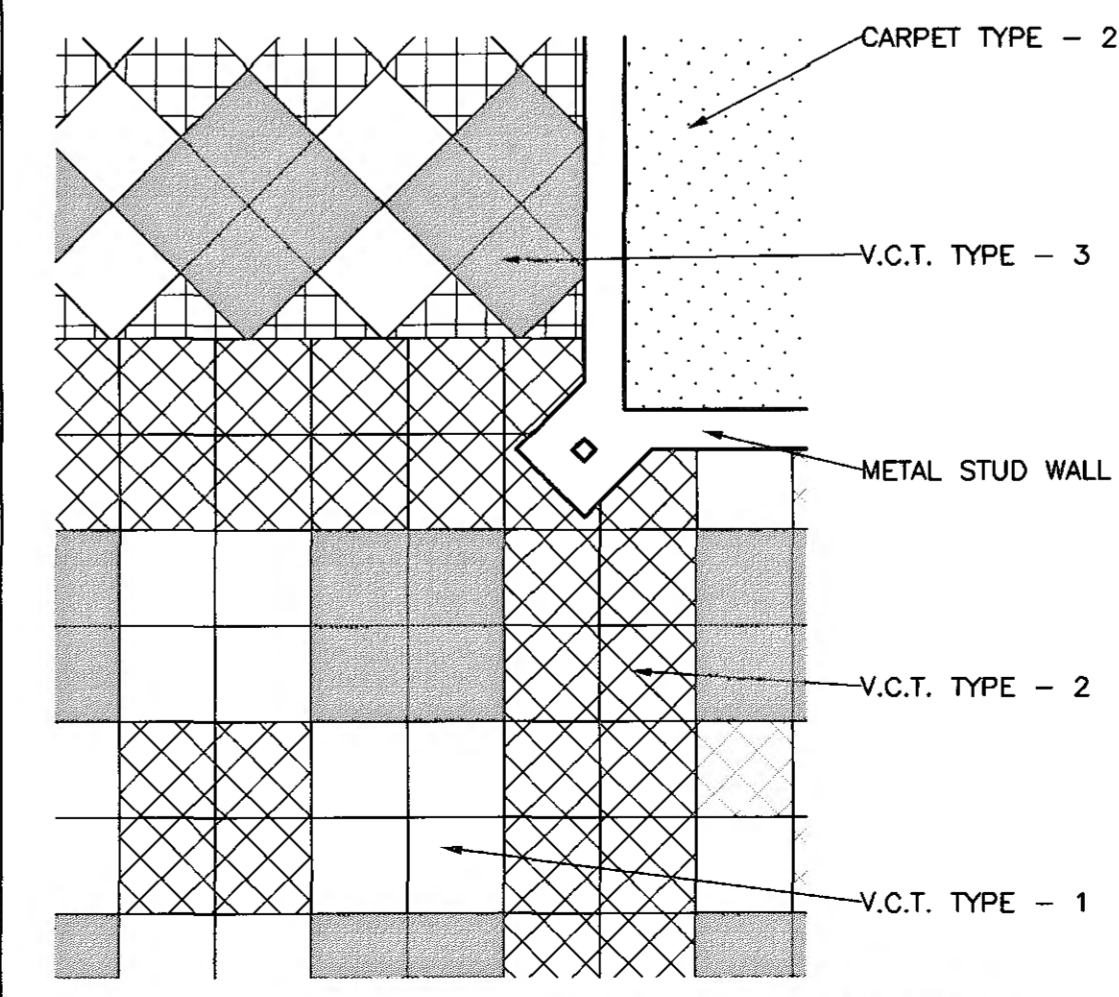
**FLOOR PATTERN PLAN (PART B)** BID ITEM No. 2  
 SCALE: 3/32" = 1'-0"



**FLOOR PATTERN PLAN (PART B)** BID ITEM No. 1  
 SCALE: 3/32" = 1'-0"



**1 LARGE SCALE DETAIL**  
 A8.01 SCALE: 1/2" = 1'-0"

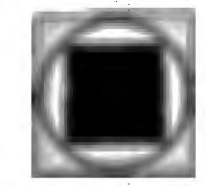


**2 LARGE SCALE DETAIL**  
 A8.01 SCALE: 1/2" = 1'-0"

**FLOOR PATTERN PLAN LEGEND**

- VINYL COMPOSITION TILE (V.C.T.) TYPE-1
- VINYL COMPOSITION TILE (V.C.T.) TYPE-2
- VINYL COMPOSITION TILE (V.C.T.) TYPE-3
- RUBBER ATHLETIC FLOOR AS SPECIFIED
- CARPET-1 / WOOD (BASE BID-CARPET) (ALTERNATE-WOOD ON SLEEPERS)
- CARPET-2 AS SPECIFIED
- QUARRY TILE ON SETTING BED
- HARD WOOD
- CONCRETE WITH CONTROL JOINTS-(C.J.) (INTERIOR-SEALED) (EXTERIOR-BROOM FINISH)

NOTE: SEE FINISH SCHEDULE AND SPECIFICATIONS FOR BASE BID / ALTERNATE FLOOR FINISHES.



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1102 South 20<sup>th</sup> Street  
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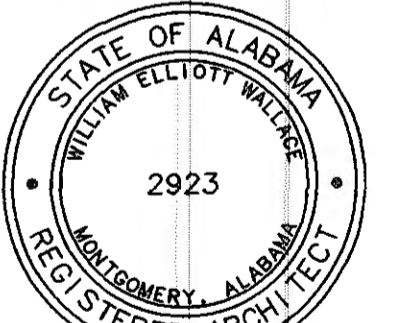
**STRUCTURAL ENGINEER**  
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A NEW  
 RECREATION  
 COMPLEX

FOR THE  
 City of  
 Orange  
 Beach  
 Alabama

6-1-019



Issue	date
Design Development	08/10/01
FINAL	09/17/01

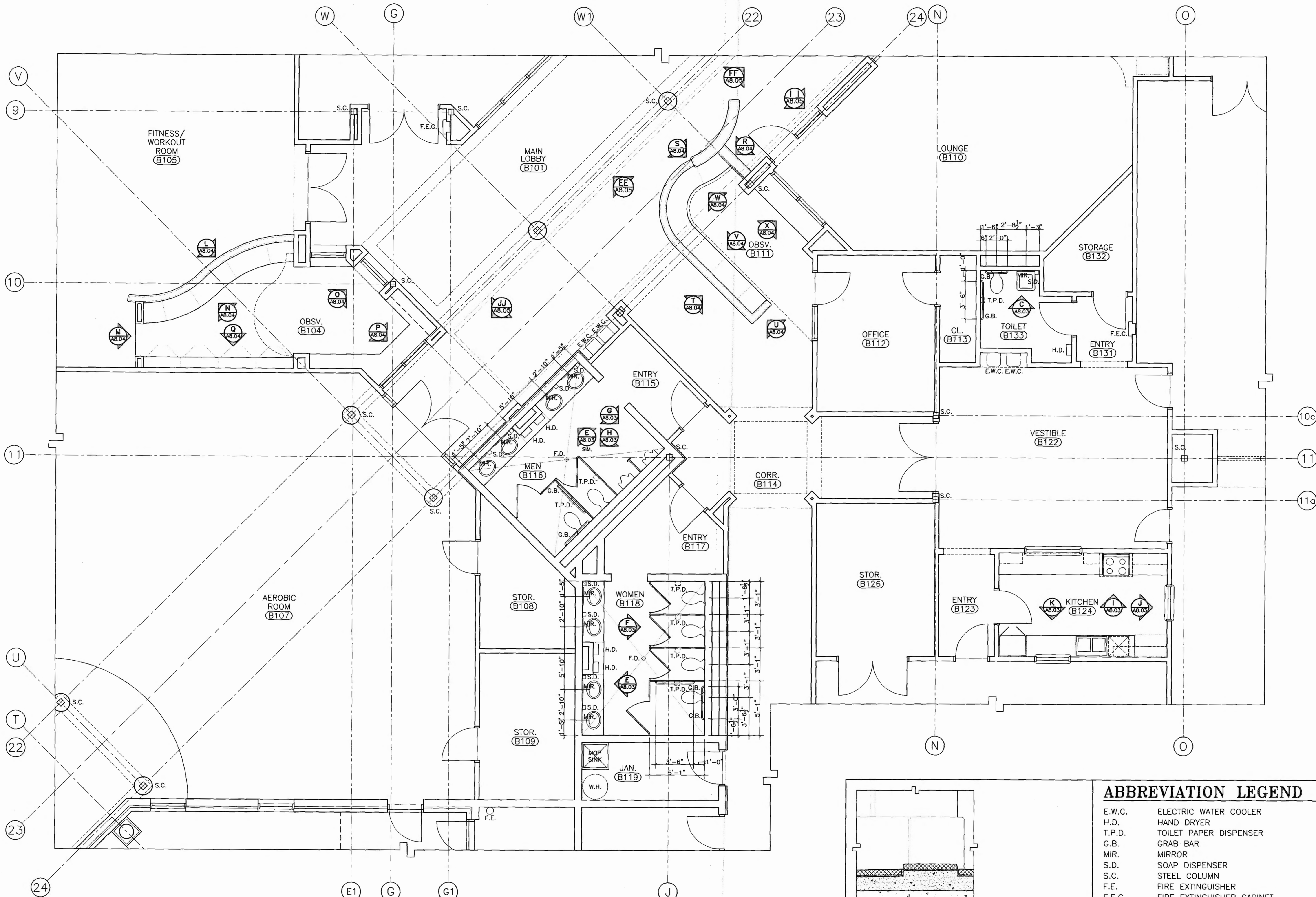
drawn by: CGB, CED  
**FLOOR PATTERN PLAN PART-A & B**

95% SUBMITTAL

**A8.01**  
 sheet 00 of 00

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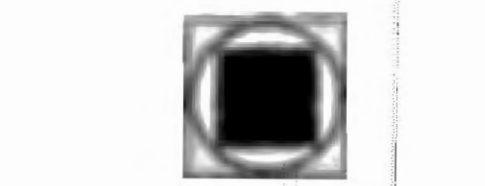


**AA LARGE SCALE PLAN**  
 A8.02 SCALE: 1/4" = 1'-0"

**1 SHOWER CURB DETAIL**  
 A8.02 SCALE: 3" = 1'-0"

**ABBREVIATION LEGEND**

- E.W.C. ELECTRIC WATER COOLER
- H.D. HAND DRYER
- T.P.D. TOILET PAPER DISPENSER
- G.B. GRAB BAR
- M.R. MIRROR
- S.D. SOAP DISPENSER
- S.C. STEEL COLUMN
- F.E. FIRE EXTINGUISHER
- F.E.C. FIRE EXTINGUISHER CABINET
- F.D. FLOOR DRAIN
- W.H. WATER HEATER



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1102 South 20<sup>th</sup> Street  
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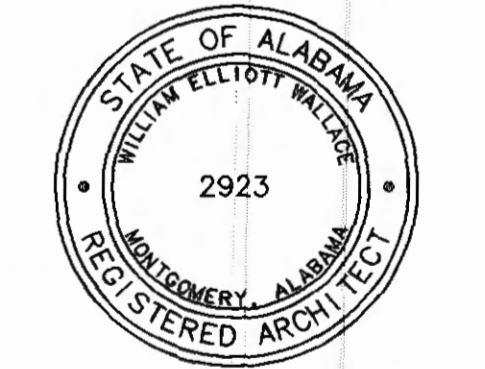
**STRUCTURAL ENGINEER**  
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A NEW  
**RECREATION COMPLEX**

FOR THE  
*City of*  
**Orange Beach**  
 Alabama

**6-1-019**



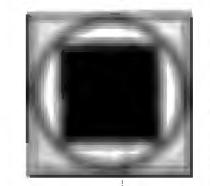
Issue	Date
Design Development	08/10/01
FINAL	09/17/01

drawn by: CGB, CED  
**LARGE SCALE PLANS & DETAILS**

95% SUBMITTAL

**A8.02**  
 sheet 00 of 00

001 Projects 05-1-019 R00 Orange Beach Rec Park ARK Construction dgs AB 02 Large Scale Plans.dwg Tue Sep 18 16:04:08 2001



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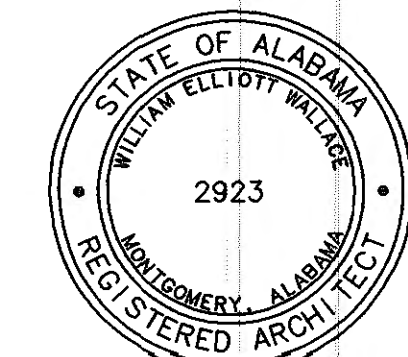
**STRUCTURAL ENGINEER**  
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 325 North Hull Street  
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**A NEW RECREATION COMPLEX**  
 FOR THE

City of  
**Orange Beach**  
 Alabama

**6-1-019**



**Issue date**

Design Development 08/10/01

FINAL 09/17/01

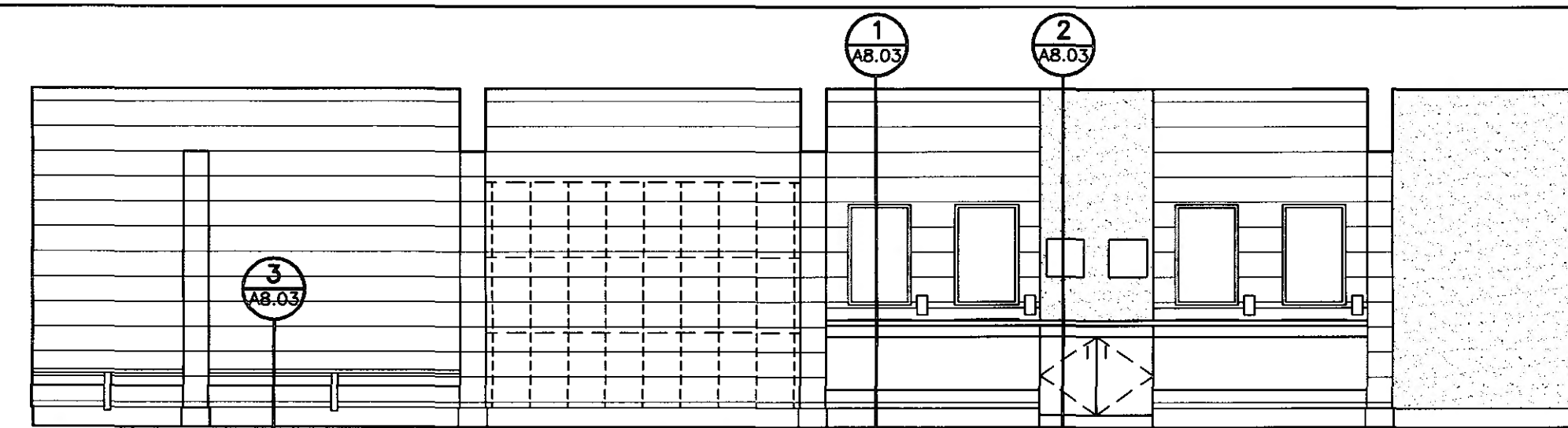
drawn by: CGB, CED

**LARGE SCALE PLAN, INTERIOR ELEVATIONS, SECTIONS & DETAILS**

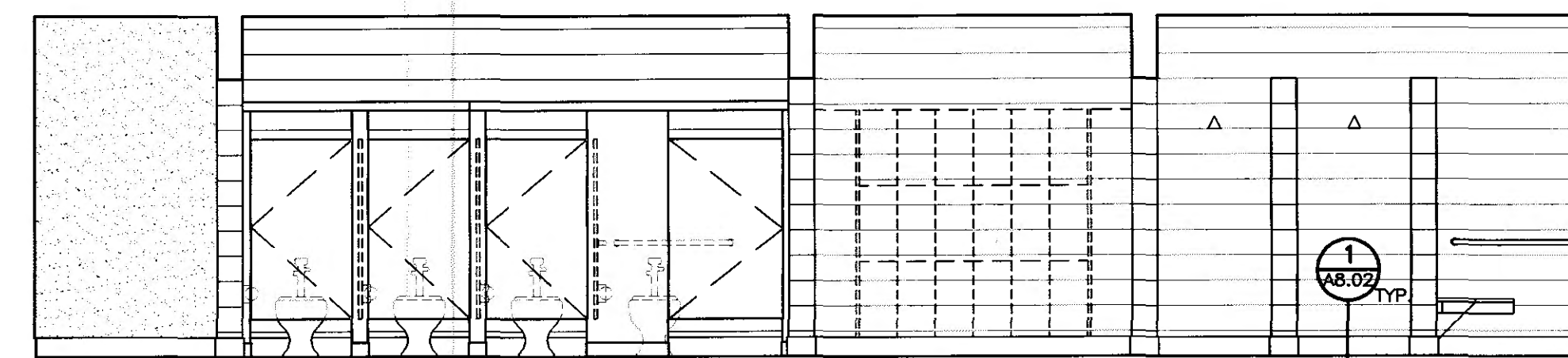
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**A8.03**

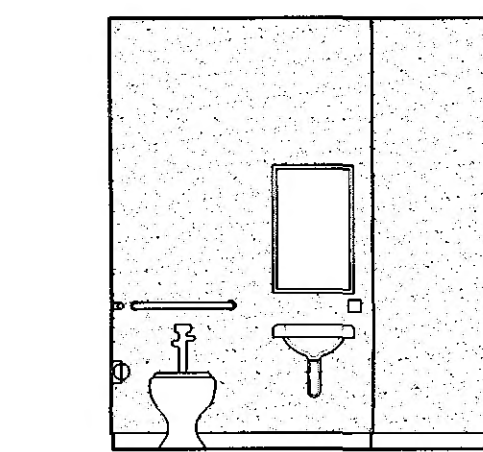
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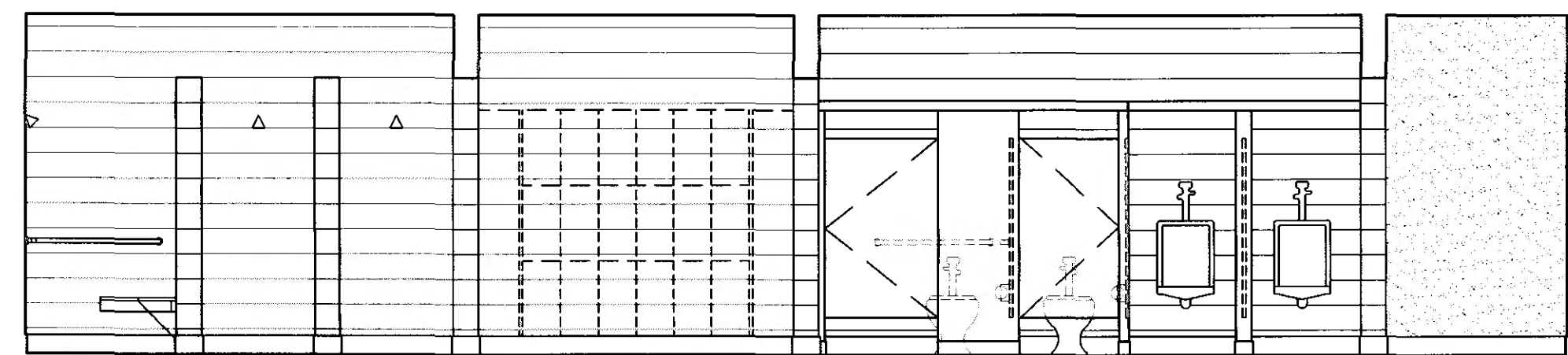
**A INTERIOR ELEVATION**  
 A8.03 SCALE: 1/4" = 1'-0"



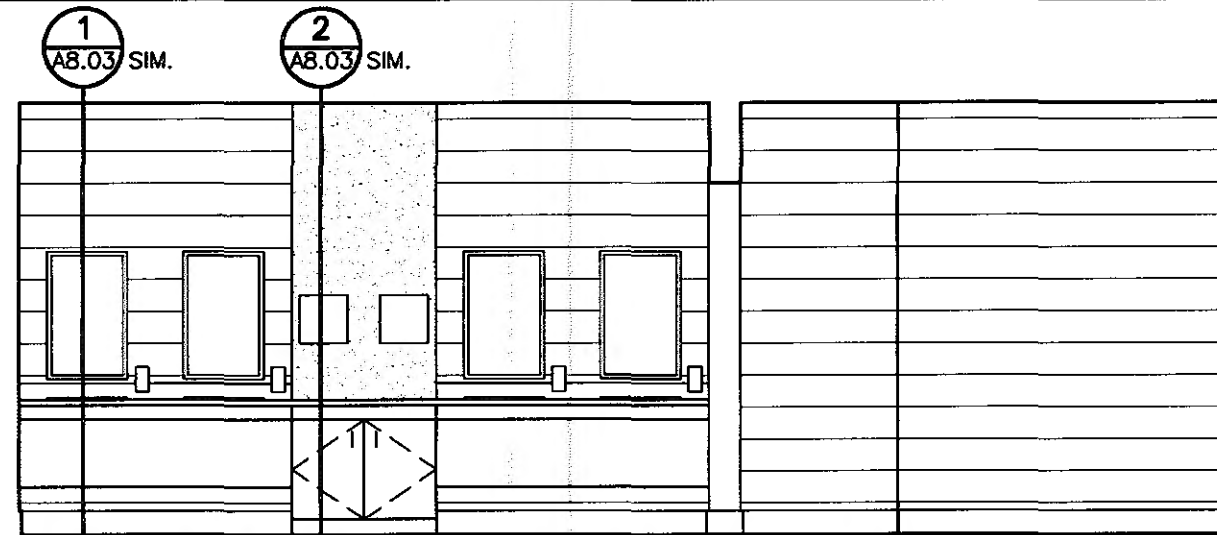
**B INTERIOR ELEVATION**  
 A8.03 SCALE: 1/4" = 1'-0"



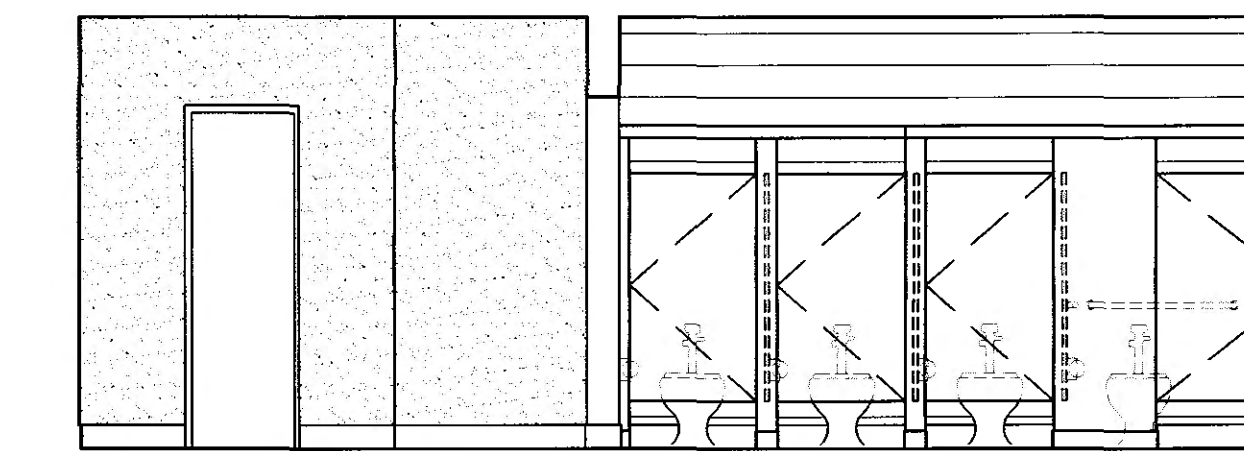
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 A8.03 SCALE: 1/4" = 1'-0"



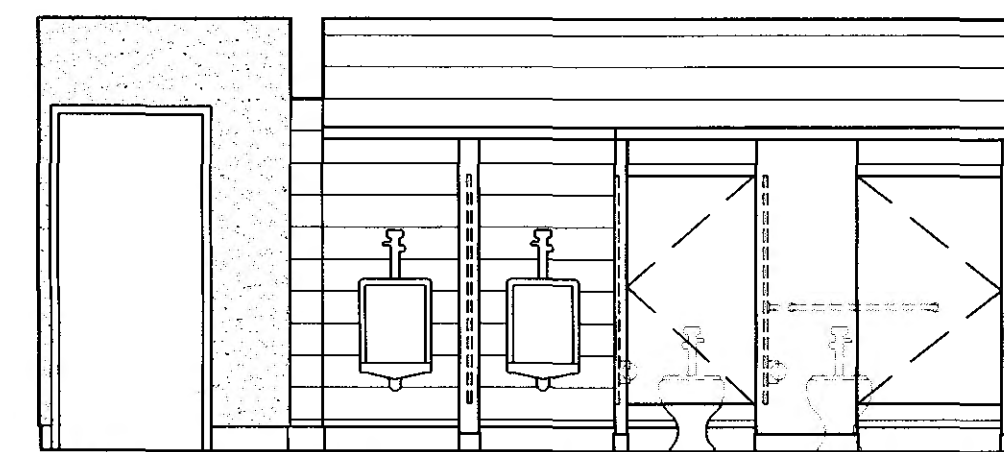
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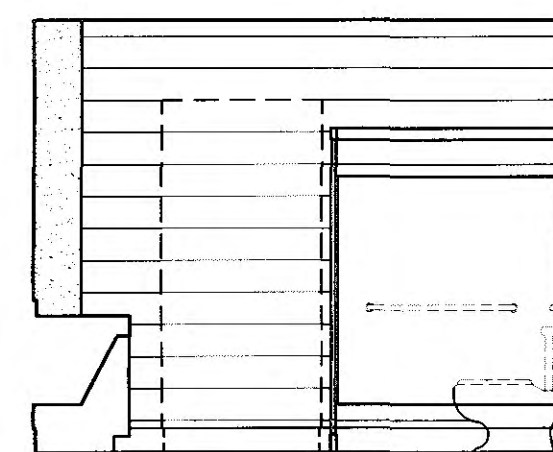
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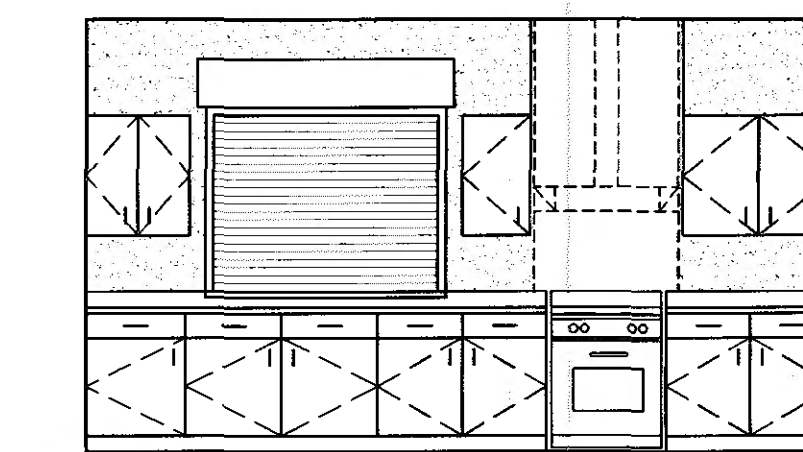
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 A8.03 SCALE: 1/4" = 1'-0"



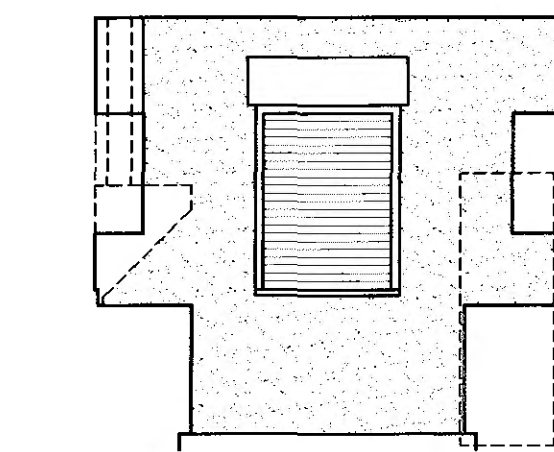
**G INTERIOR ELEVATION**  
 A8.03 SCALE: 1/4" = 1'-0"



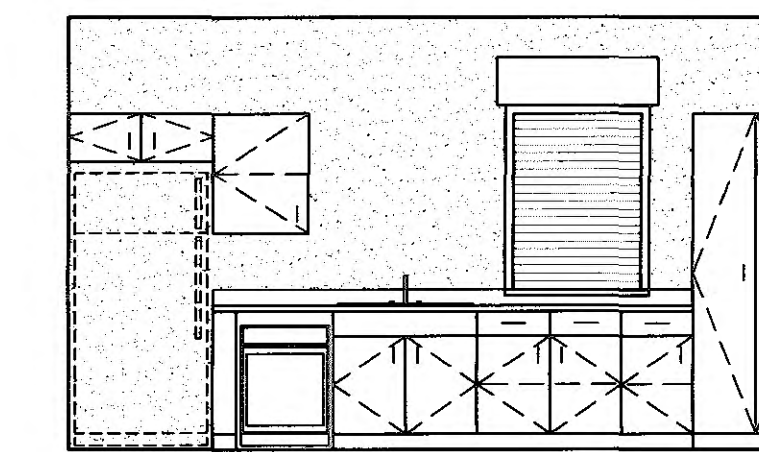
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 A8.03 SCALE: 1/4" = 1'-0"



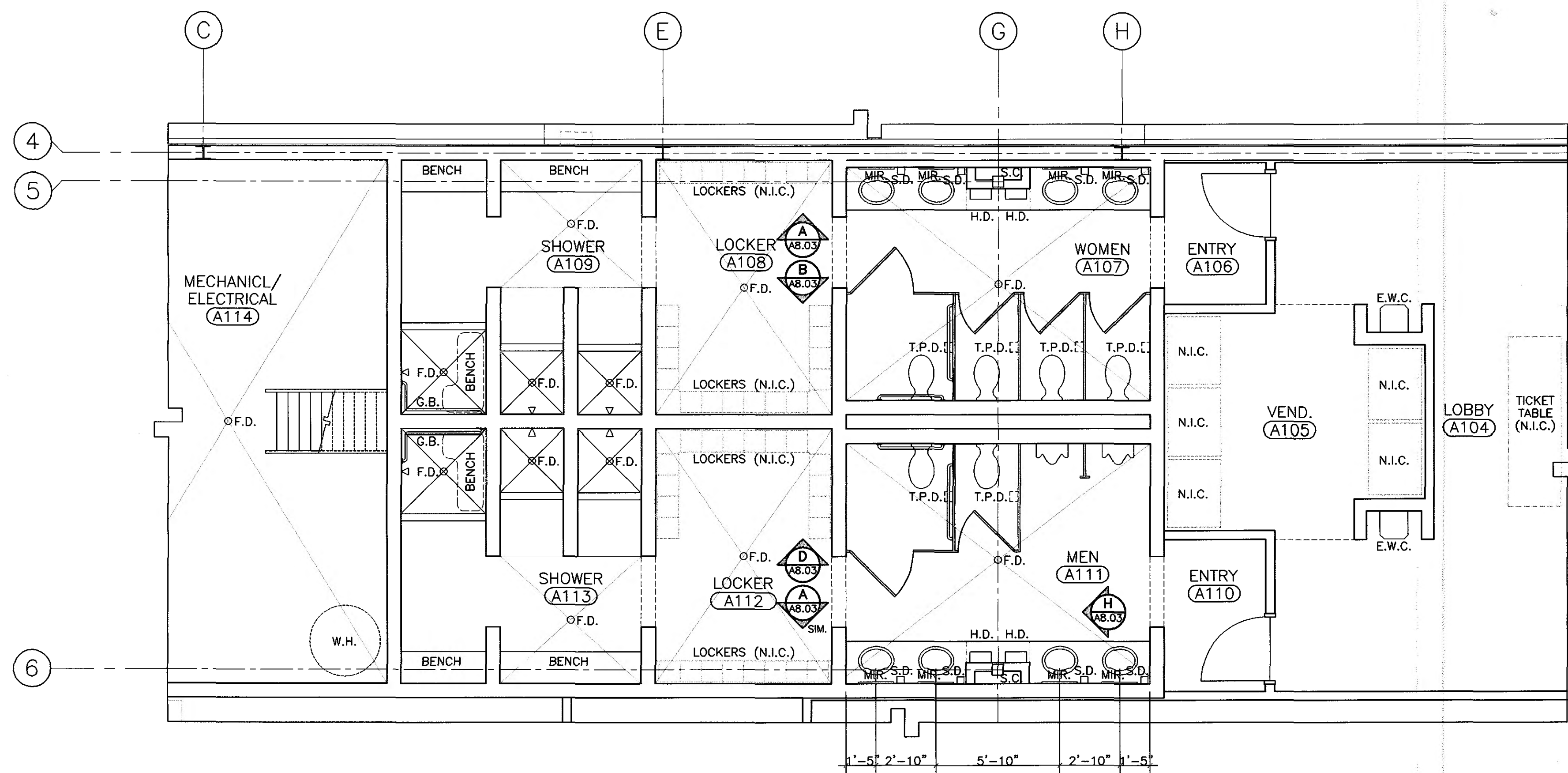
**I INT. ELEV.**  
 A8.03 SCALE: 1/4" = 1'-0"



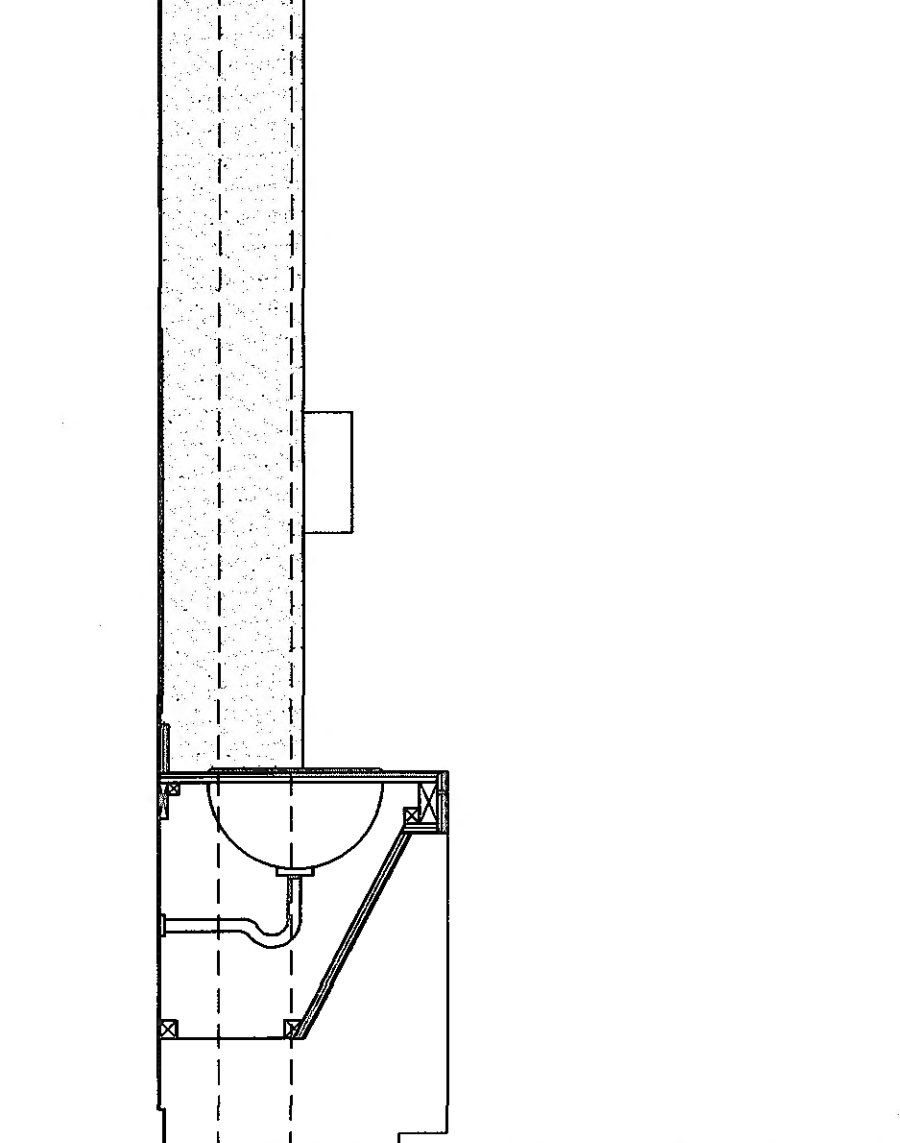
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 A8.03 SCALE: 1/4" = 1'-0"



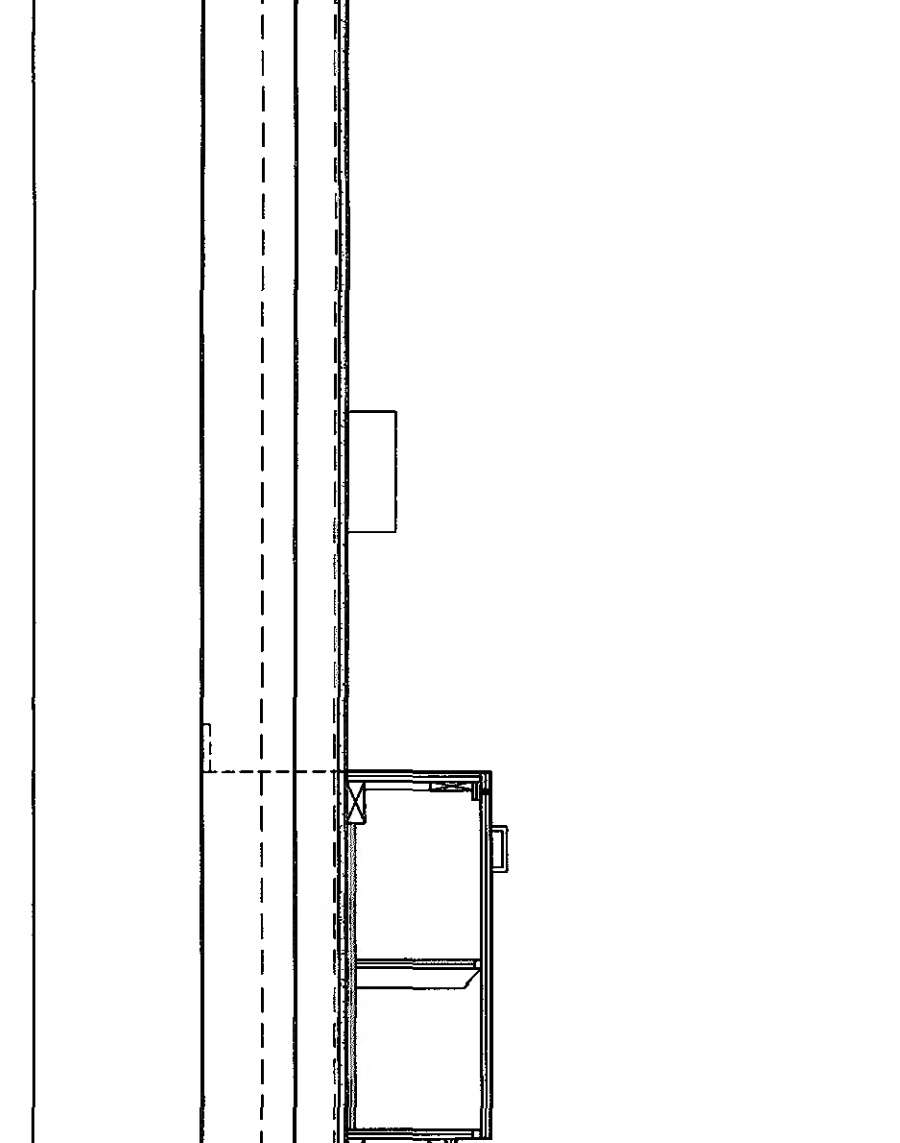
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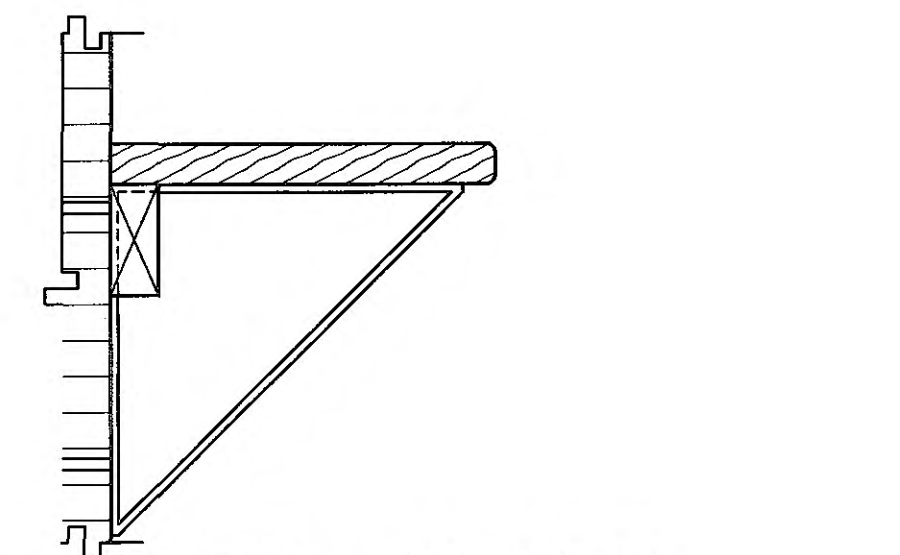
**BB LARGE SCALE PLAN**  
 A8.03 SCALE: 1/4" = 1'-0"



**1 COUNTER SECTION**  
 A8.03 SCALE: 3/4" = 1'-0"



**2 CABINET SECTION**  
 A8.03 SCALE: 3/4" = 1'-0"

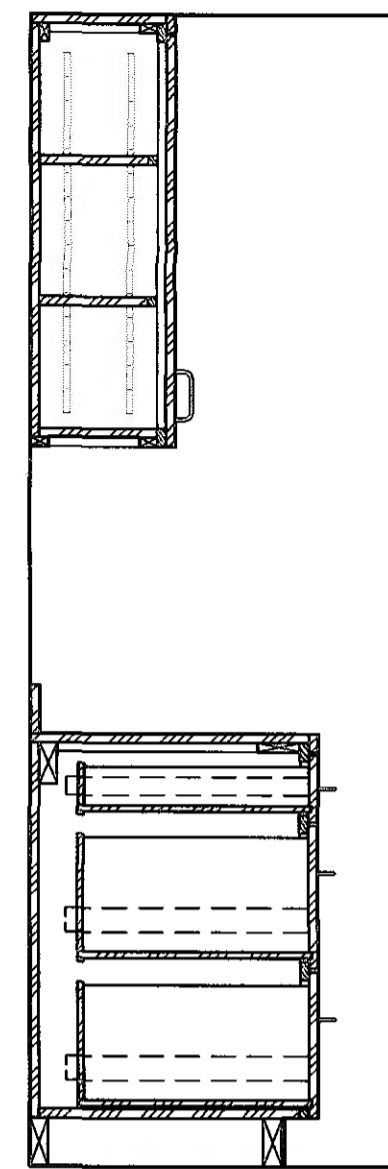


**3 BENCH DETAIL**  
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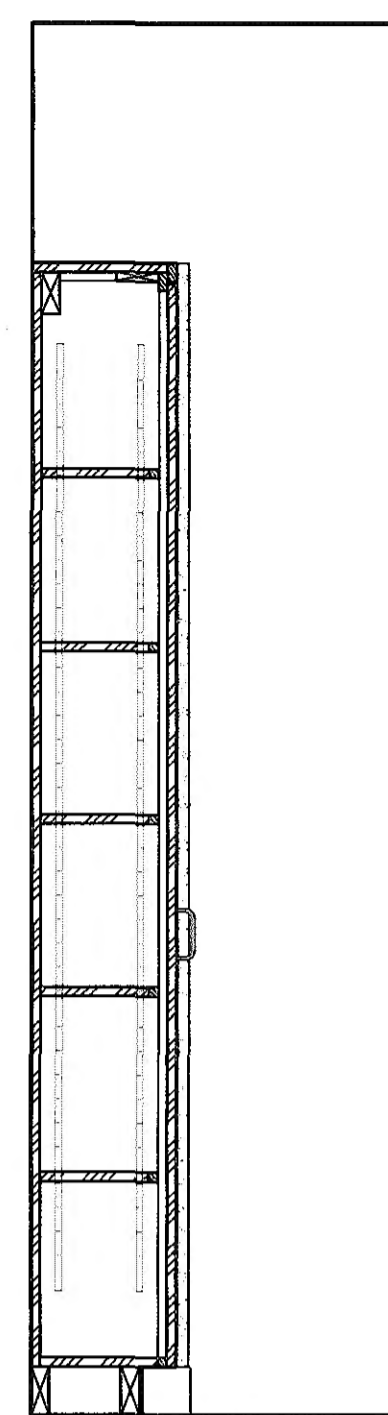
**ABBREVIATION LEGEND**

- E.W.C. ELECTRIC WATER COOLER
- H.D. HAND DRYER
- T.P.D. TOILET PAPER DISPENSER
- G.B. GRAB BAR
- MIR. MIRROR
- S.D. SOAP DISPENSER
- S.C. STEEL COLUMN
- F.D. FLOOR DRAIN
- N.I.C. NOT IN CONTRACT

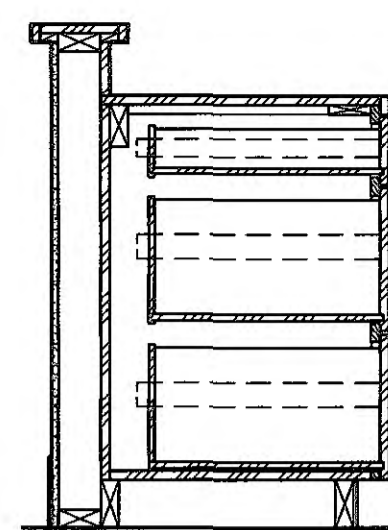
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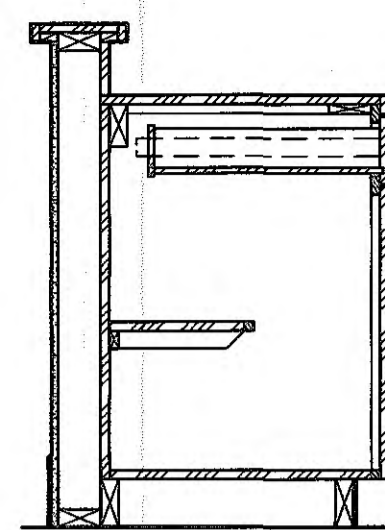
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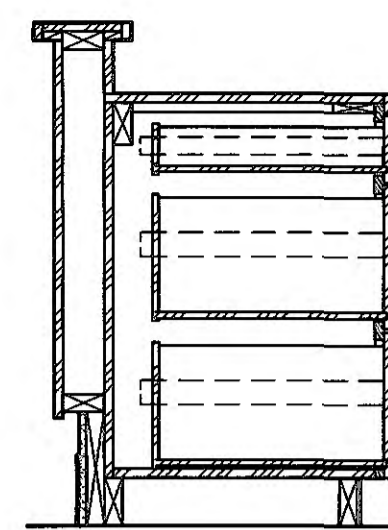
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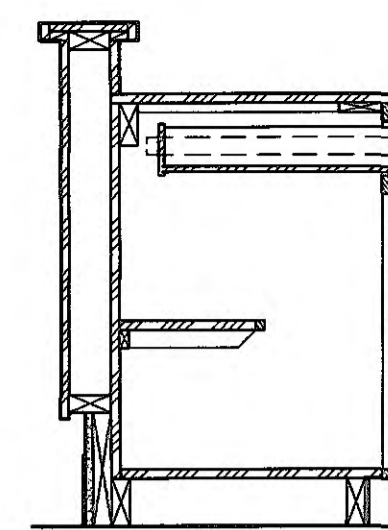
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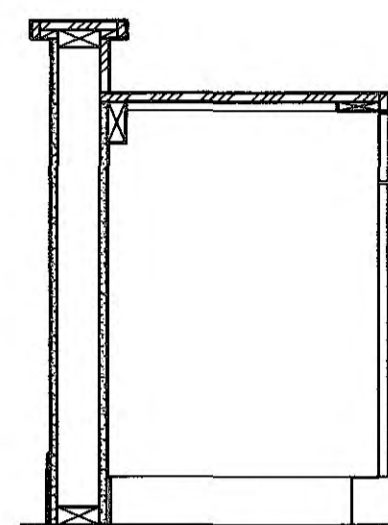
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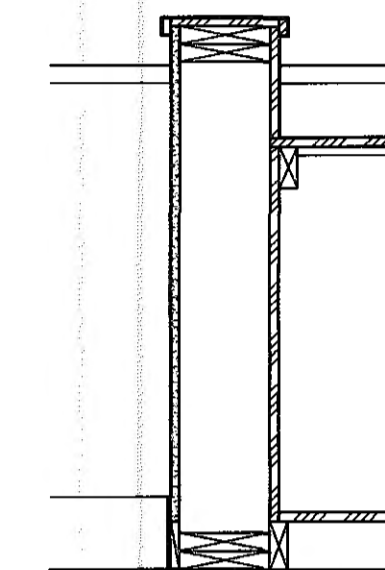
5 CABINET SECTION  
A8.04 SCALE: 3/4" = 1'-0"



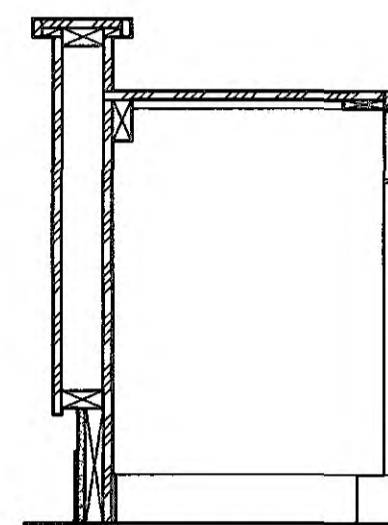
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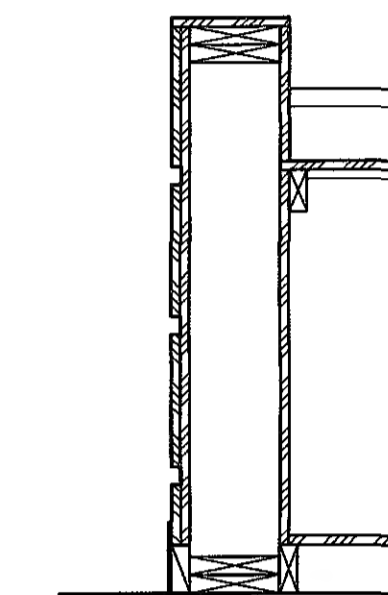
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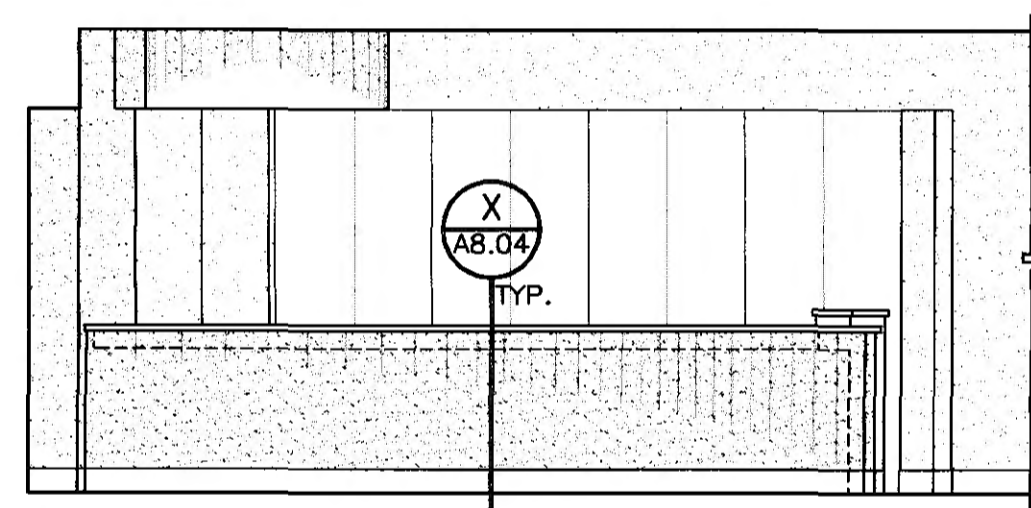
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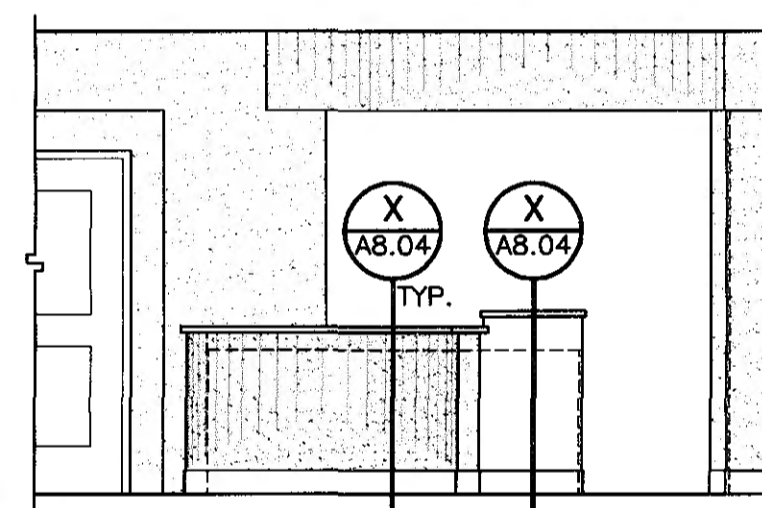
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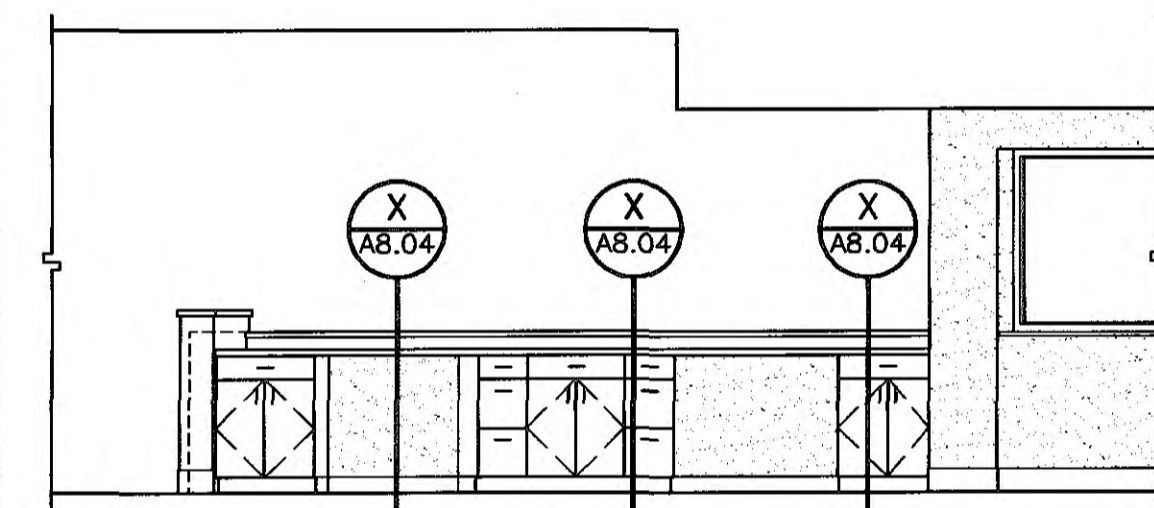
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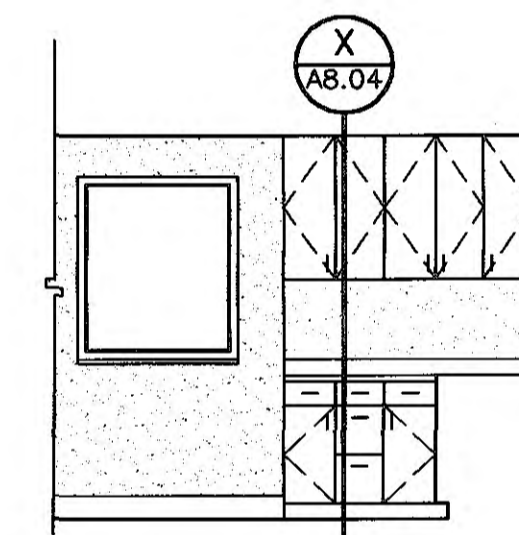
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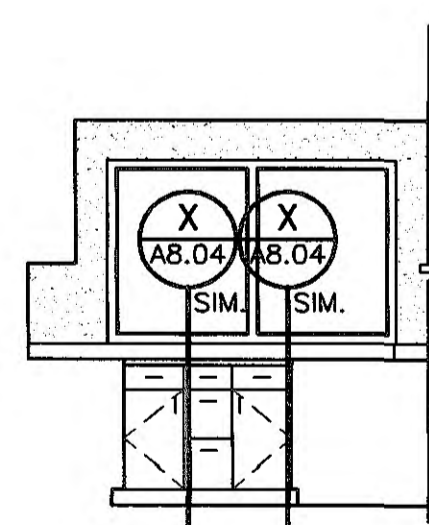
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A8.04 SCALE: 1/4" = 1'-0"



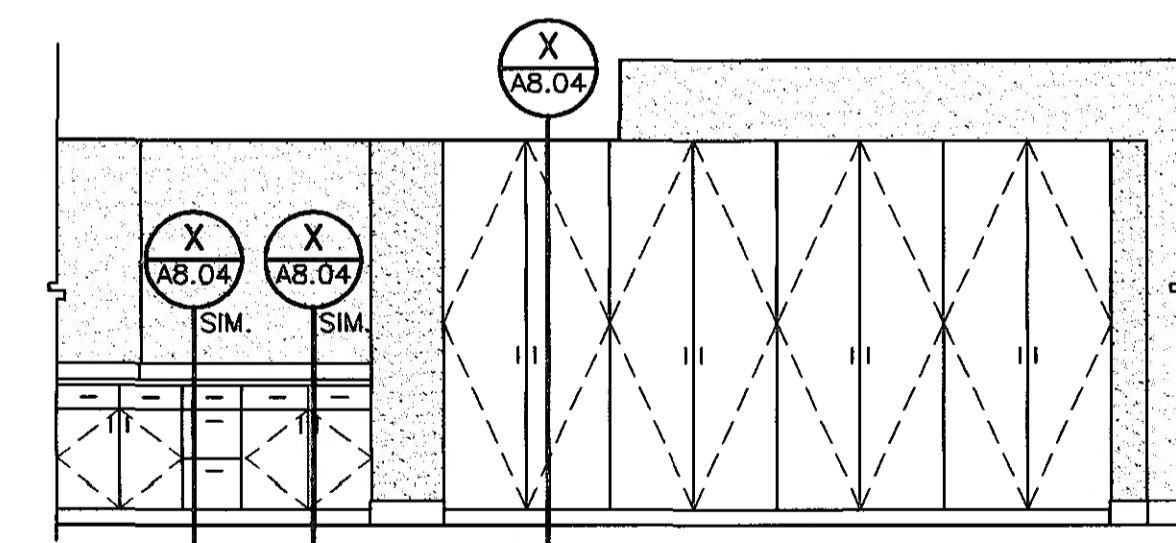
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A8.04 SCALE: 1/4" = 1'-0"



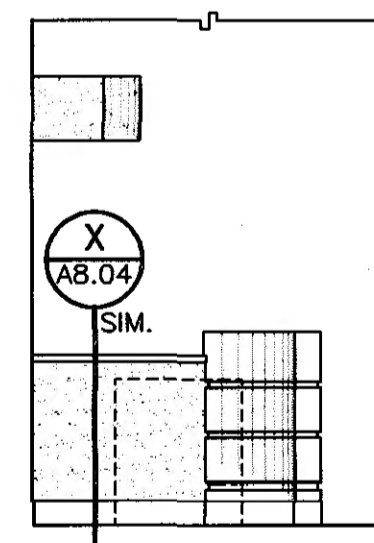
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A8.04 SCALE: 1/4" = 1'-0"



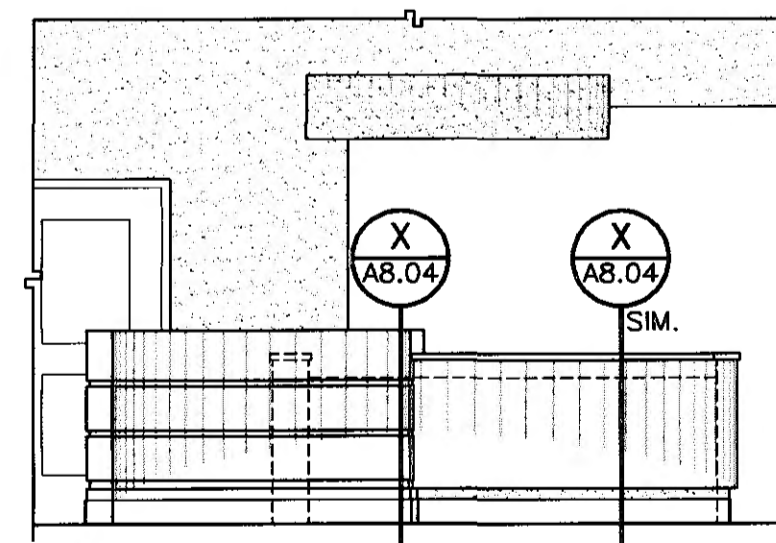
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A8.04 SCALE: 1/4" = 1'-0"



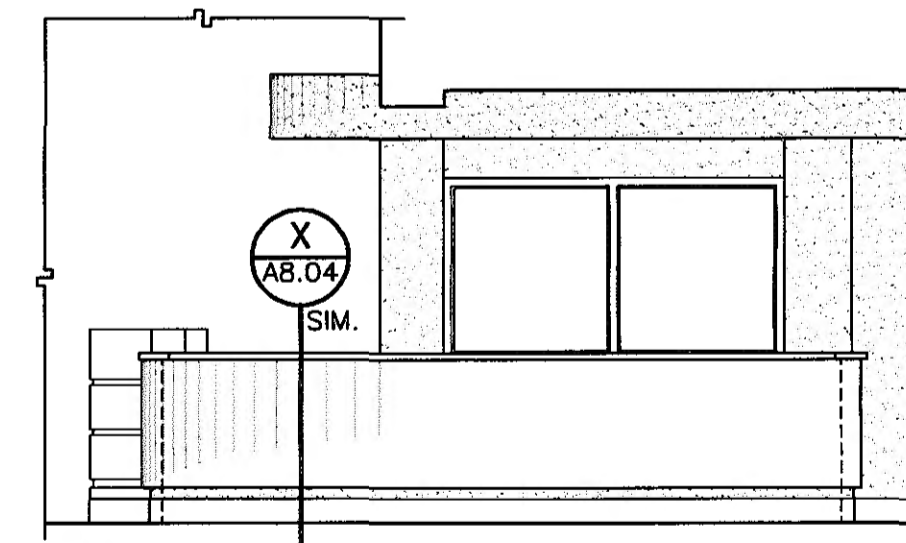
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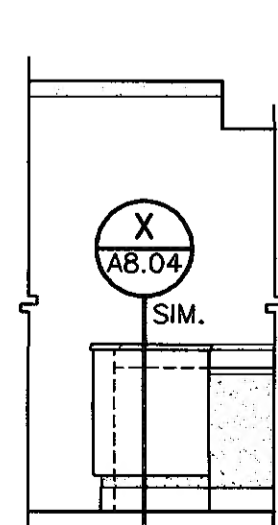
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A8.04 SCALE: 1/4" = 1'-0"



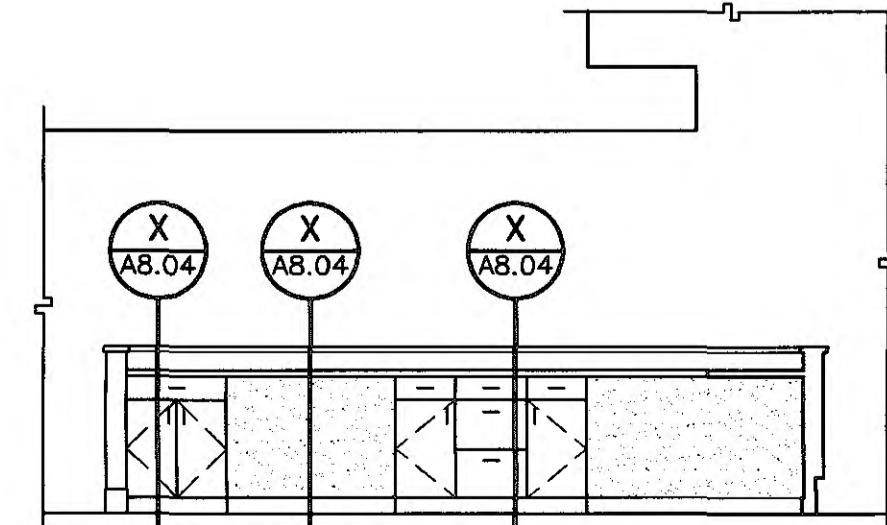
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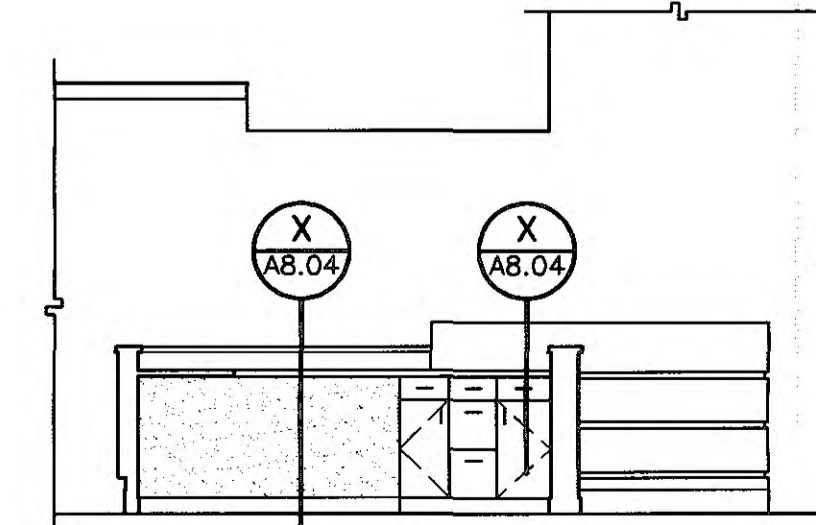
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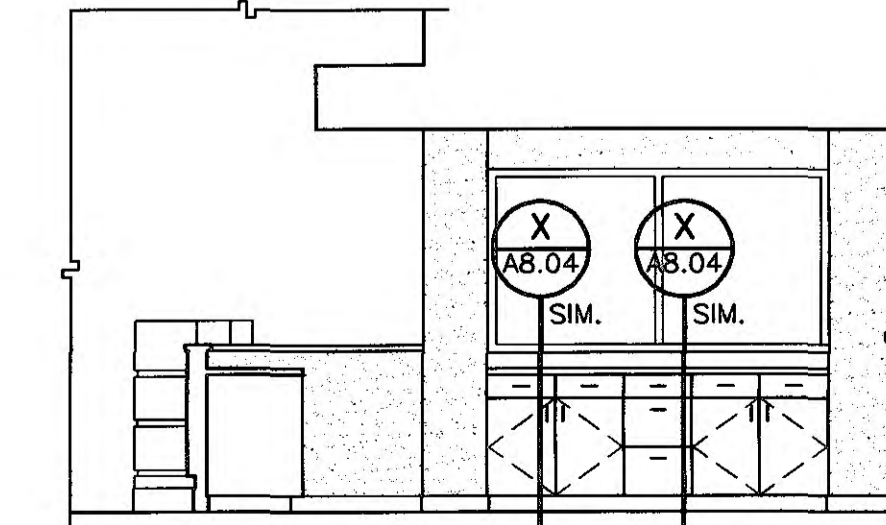
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A8.04 SCALE: 1/4" = 1'-0"



V INTERIOR ELEVATION  
A8.04 SCALE: 1/4" = 1'-0"



W INTERIOR ELEVATION  
A8.04 SCALE: 1/4" = 1'-0"



X INTERIOR ELEVATION  
A8.04 SCALE: 1/4" = 1'-0"



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Birmingham, Alabama 35205  
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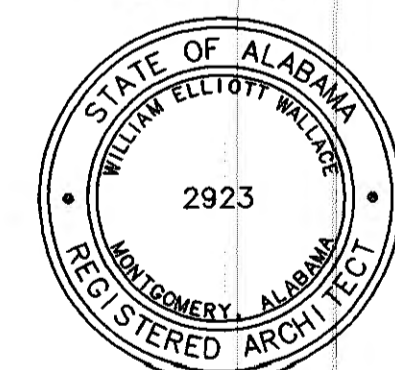
STRUCTURAL ENGINEER  
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Montgomery, Alabama 36104  
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MECH. & ELEC. ENGINEER  
Borden & Morris Consulting Engineers, Inc.  
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RECREATION  
COMPLEX  
FOR THE

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Alabama

6-1-019



Issue date

Design Development 06/10/01

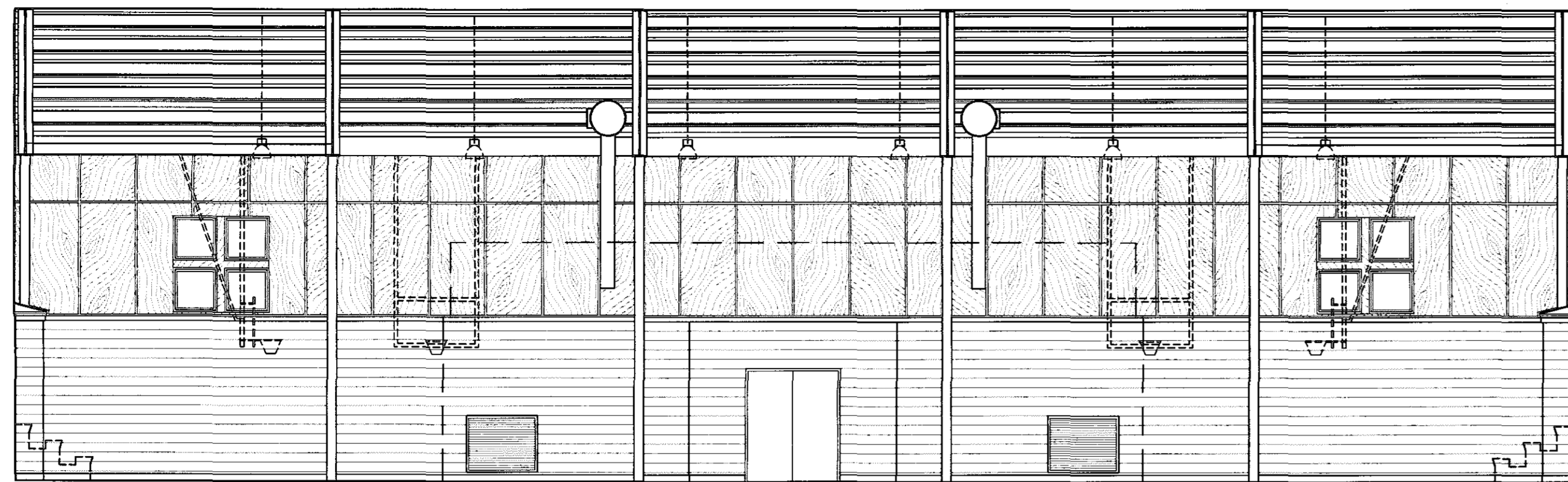
FINAL 09/17/01

drawn by: OGB, CED  
INTERIOR  
ELEVATIONS  
AND  
DETAILS

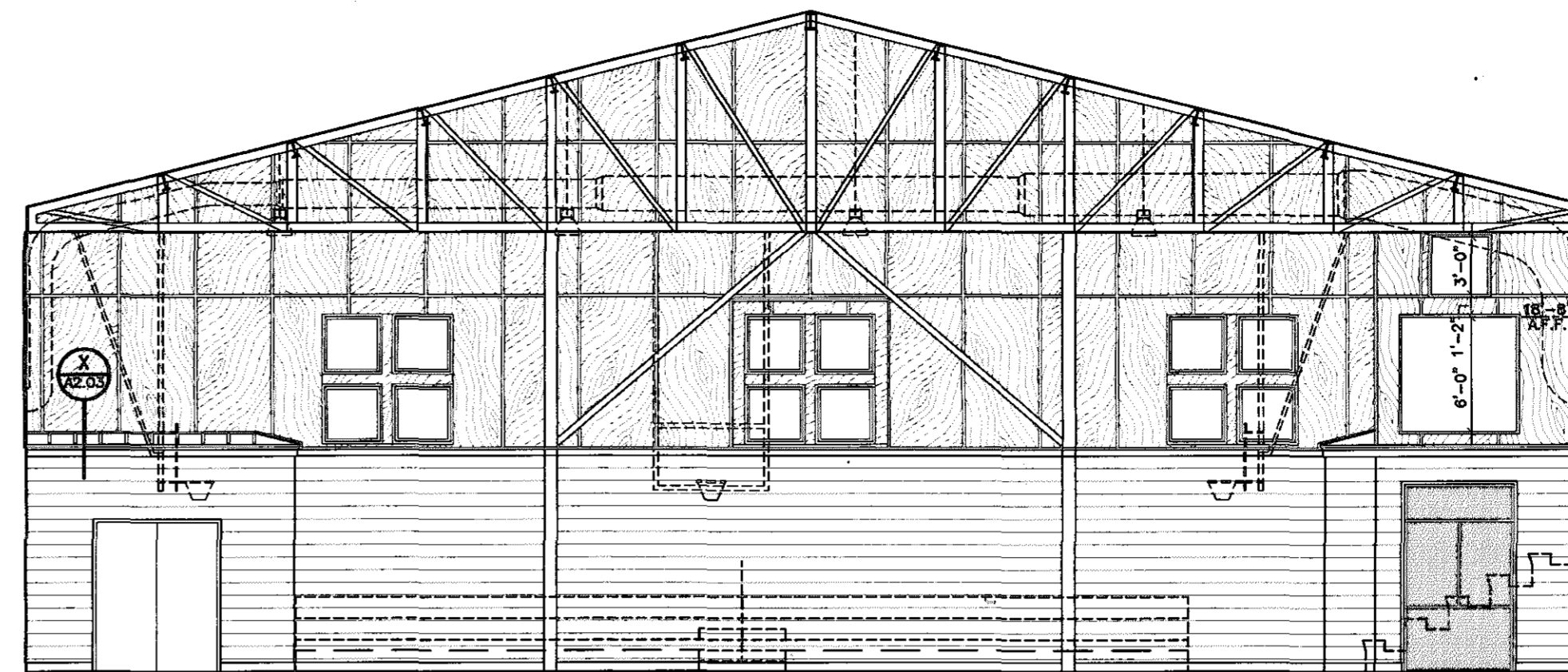
95% SUBMITTAL

A8.04  
sheet 00 of 00

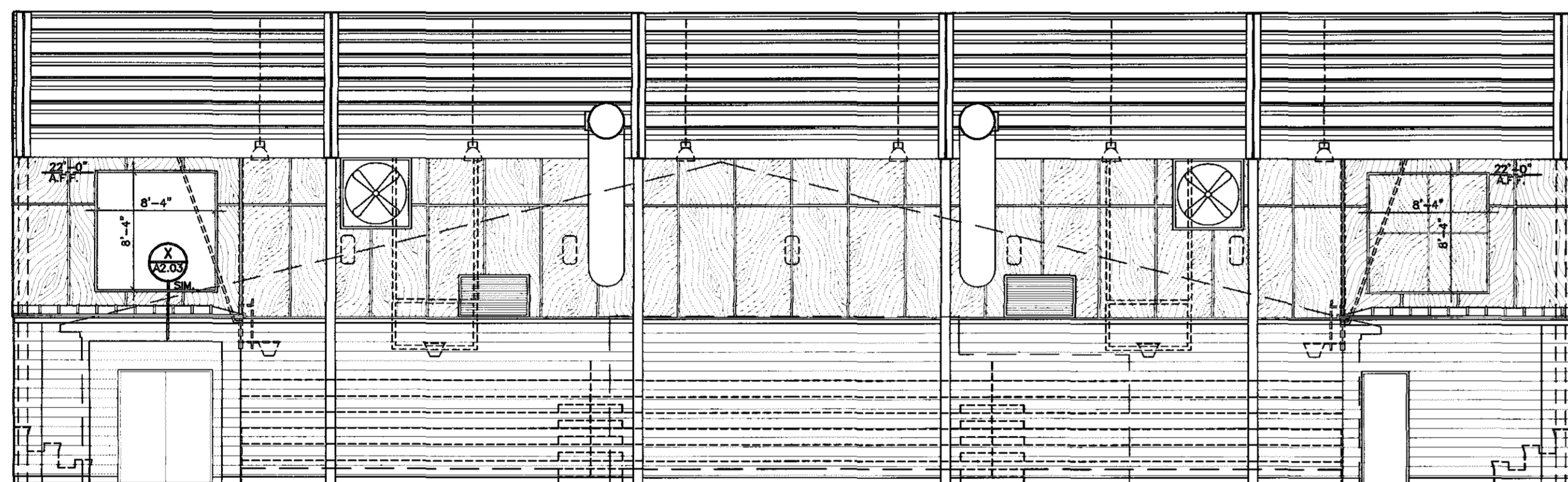
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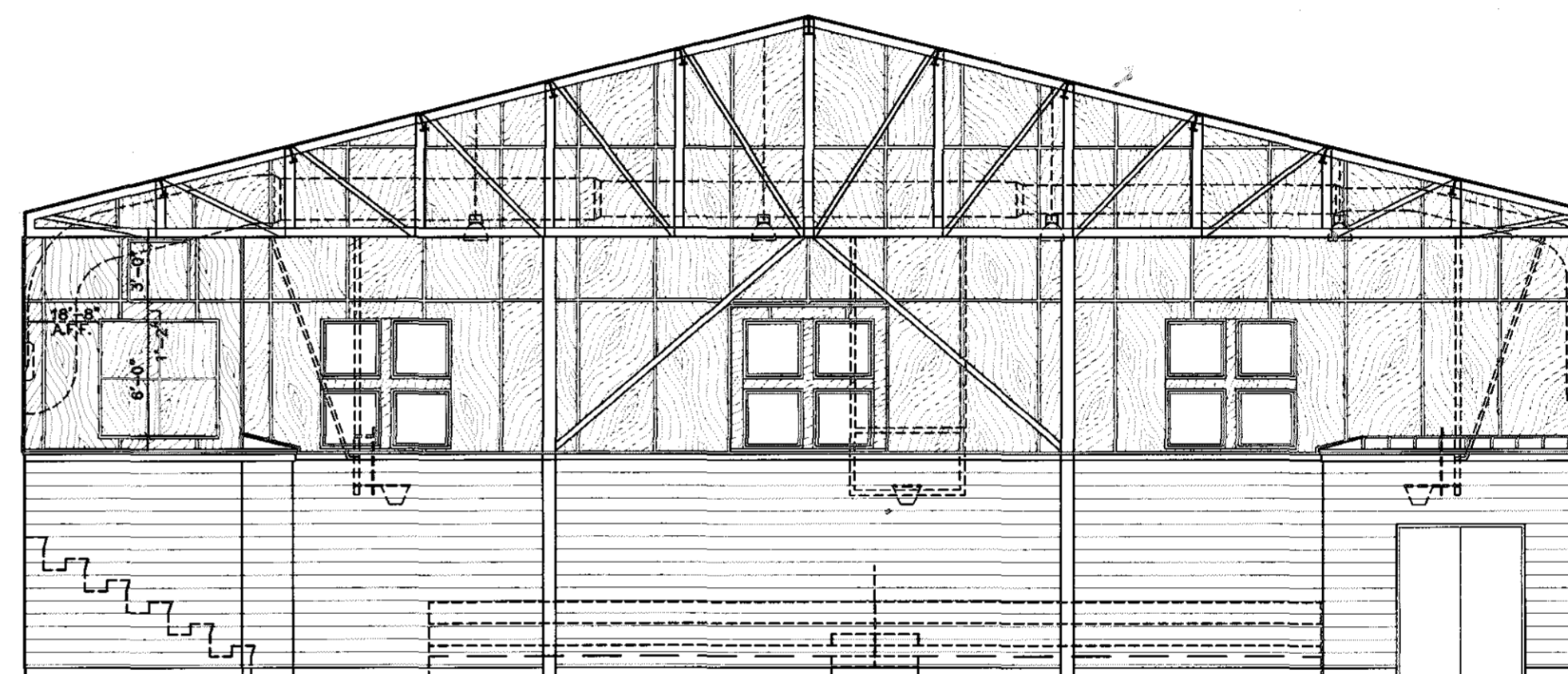
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SCALE: 1/8" = 1'-0"



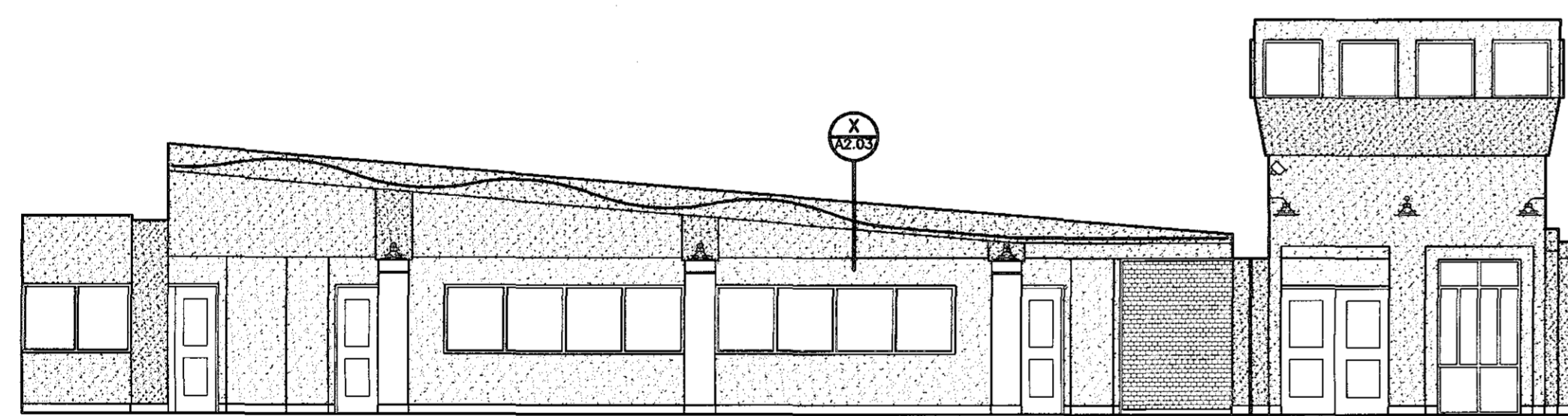
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SCALE: 1/8" = 1'-0"



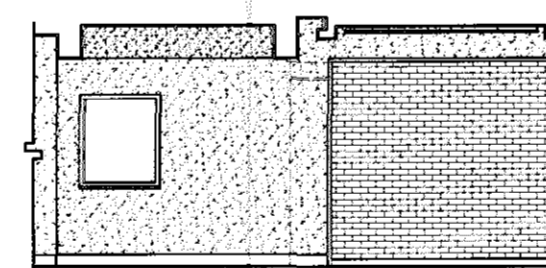
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SCALE: 1/8" = 1'-0"



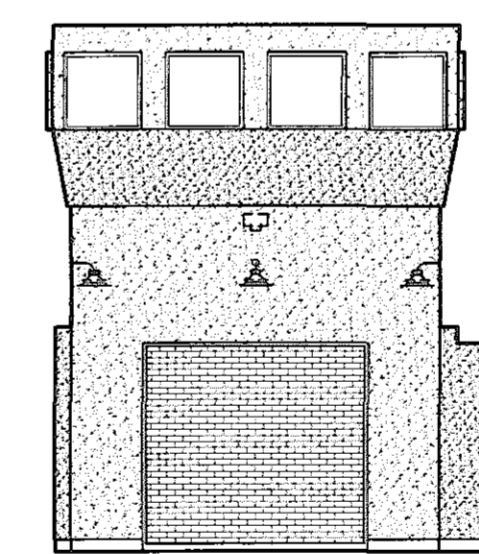
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SCALE: 1/8" = 1'-0"



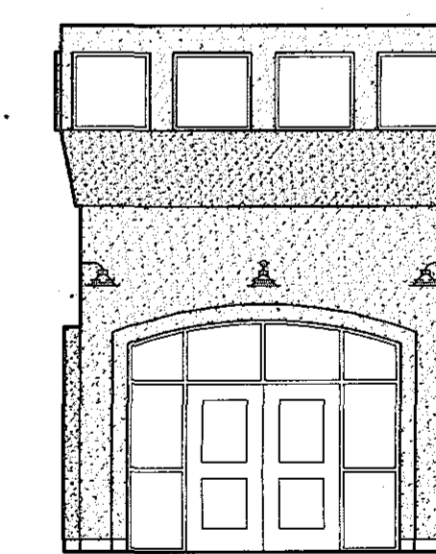
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SCALE: 1/8" = 1'-0"



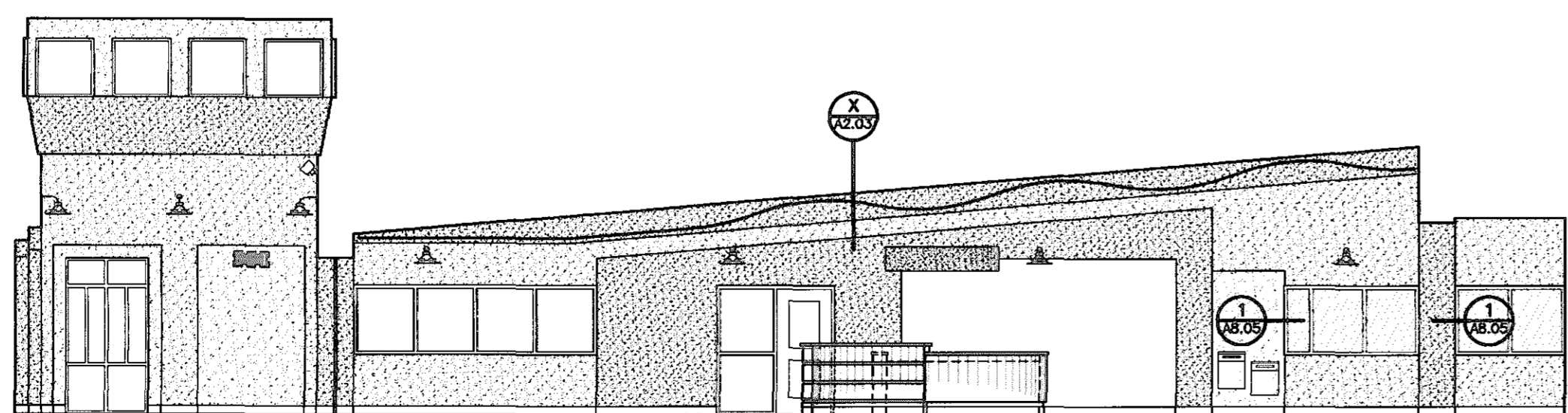
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SCALE: 1/8" = 1'-0"



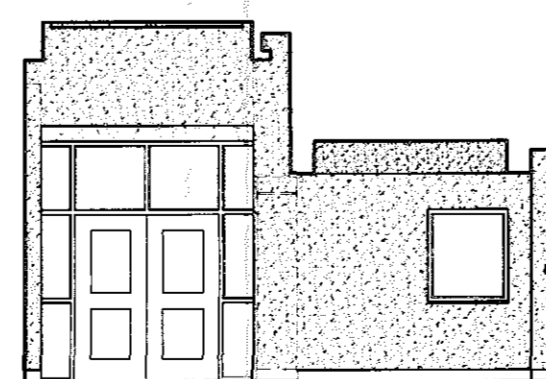
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SCALE: 1/8" = 1'-0"



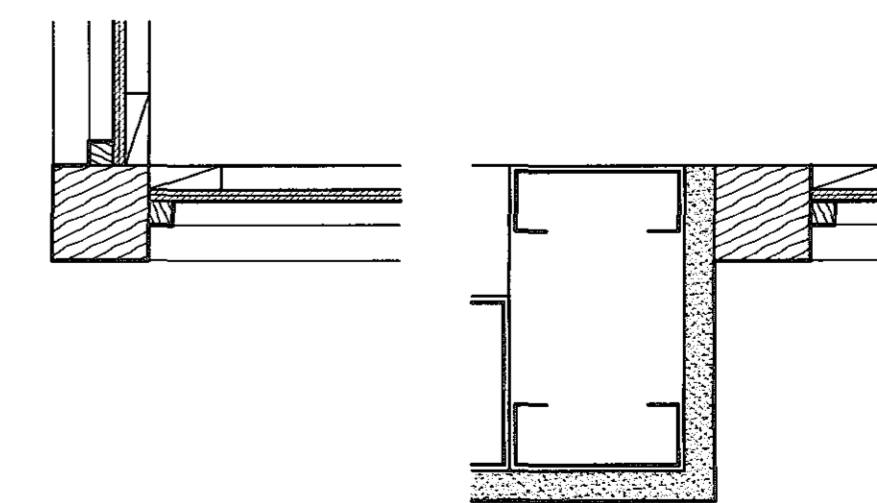
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A8.05 **INT. ELEV.**  
SCALE: 1/8" = 1'-0"



**II**  
A8.05 **INTERIOR ELEVATION**  
SCALE: 1/8" = 1'-0"



**JJ**  
A8.05 **INT. ELEV.**  
SCALE: 1/8" = 1'-0"



**1**  
A8.05 **MIRROR TRIM DETAIL** JAMBS / HEAD & SILL SIMILAR  
SCALE: 3" = 1'-0"

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A NEW  
**RECREATION COMPLEX**  
FOR THE  
*City of Orange Beach*  
alabama

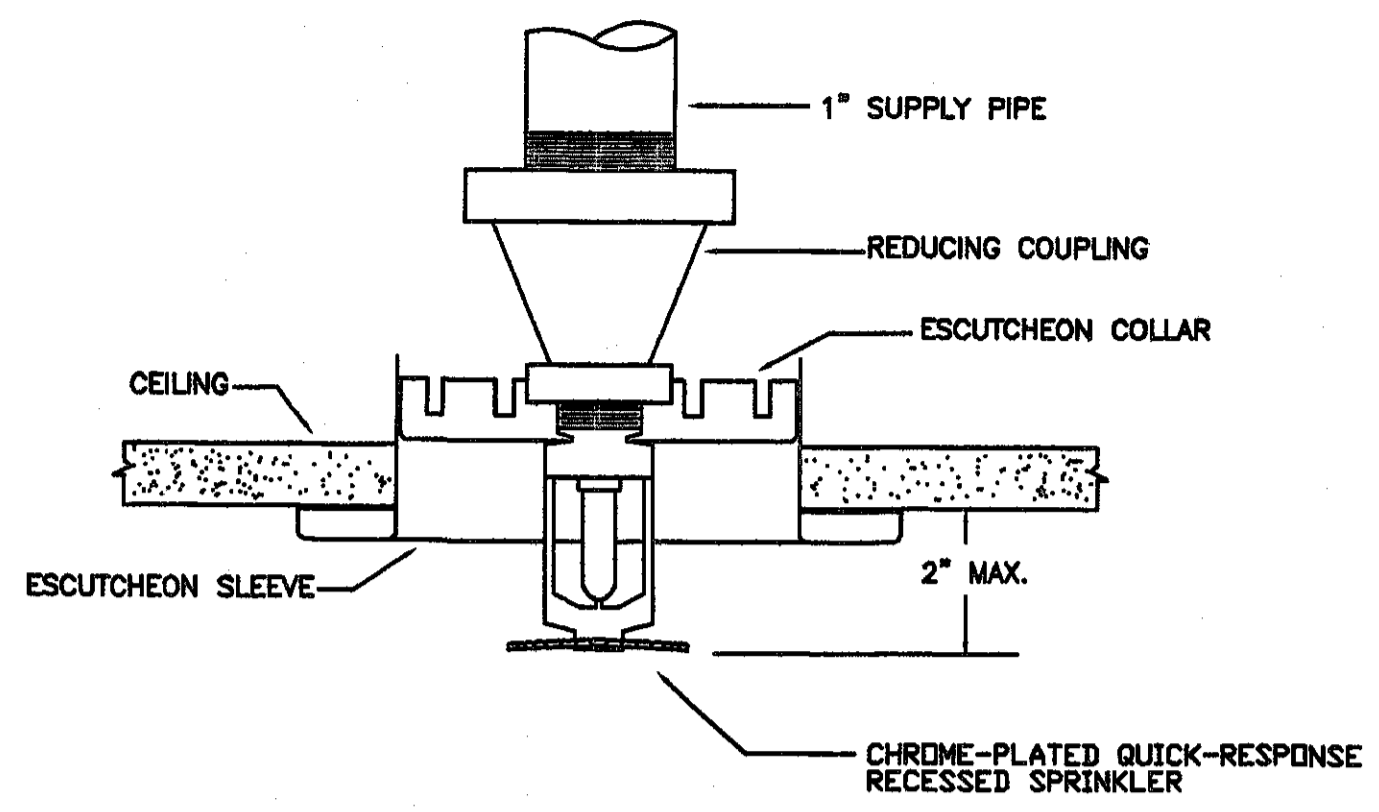
**6-1-019**  
STATE OF ALABAMA  
WILFRED ELLIOTT WELLS  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

issue	date
Design Development	08/10/01
FINAL	08/17/01

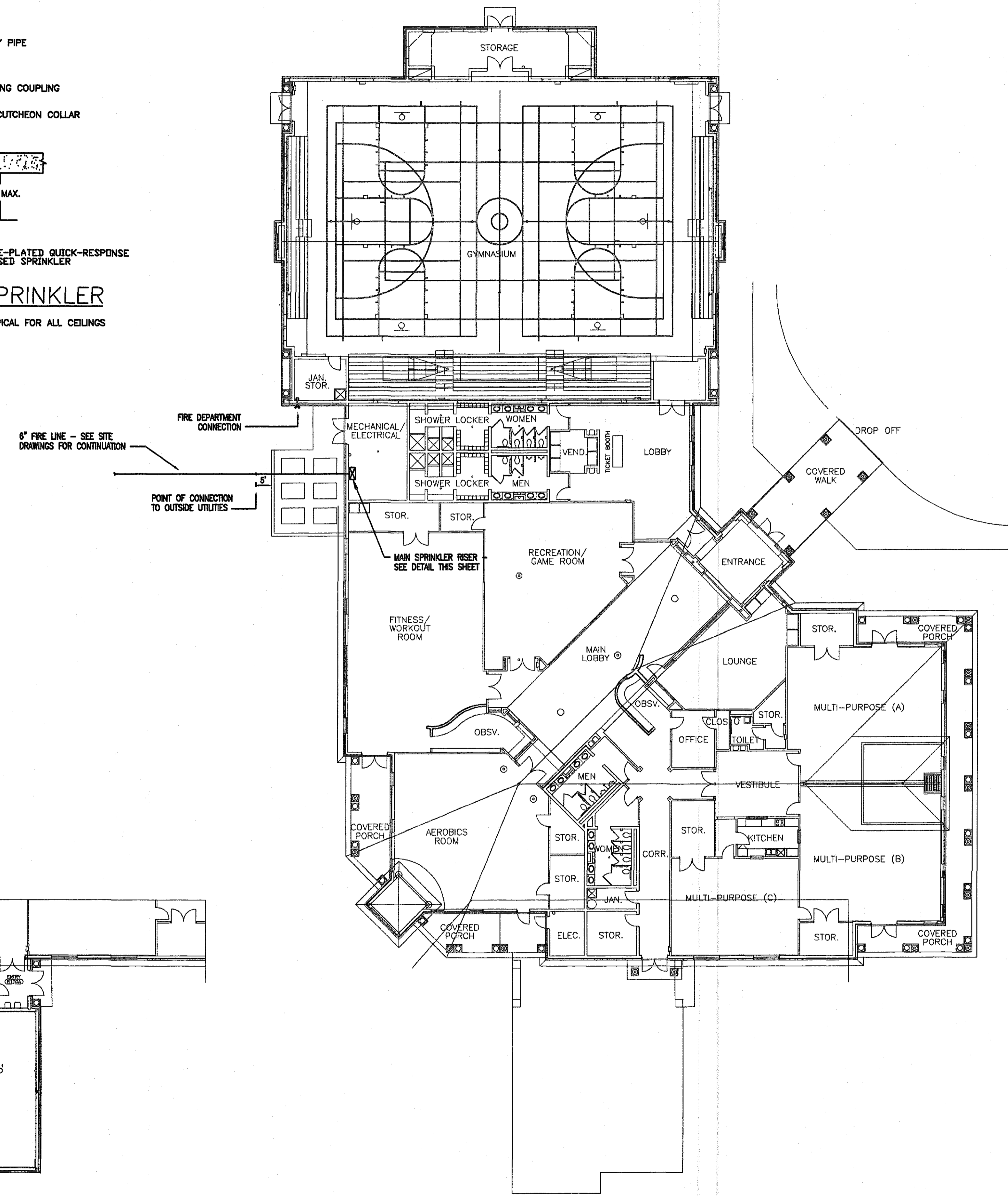
drawn by: CGB, CED  
**INTERIOR ELEVATIONS AND DETAILS**

05% SUBMITTAL  
**A8.05**  
sheet 00 of 00

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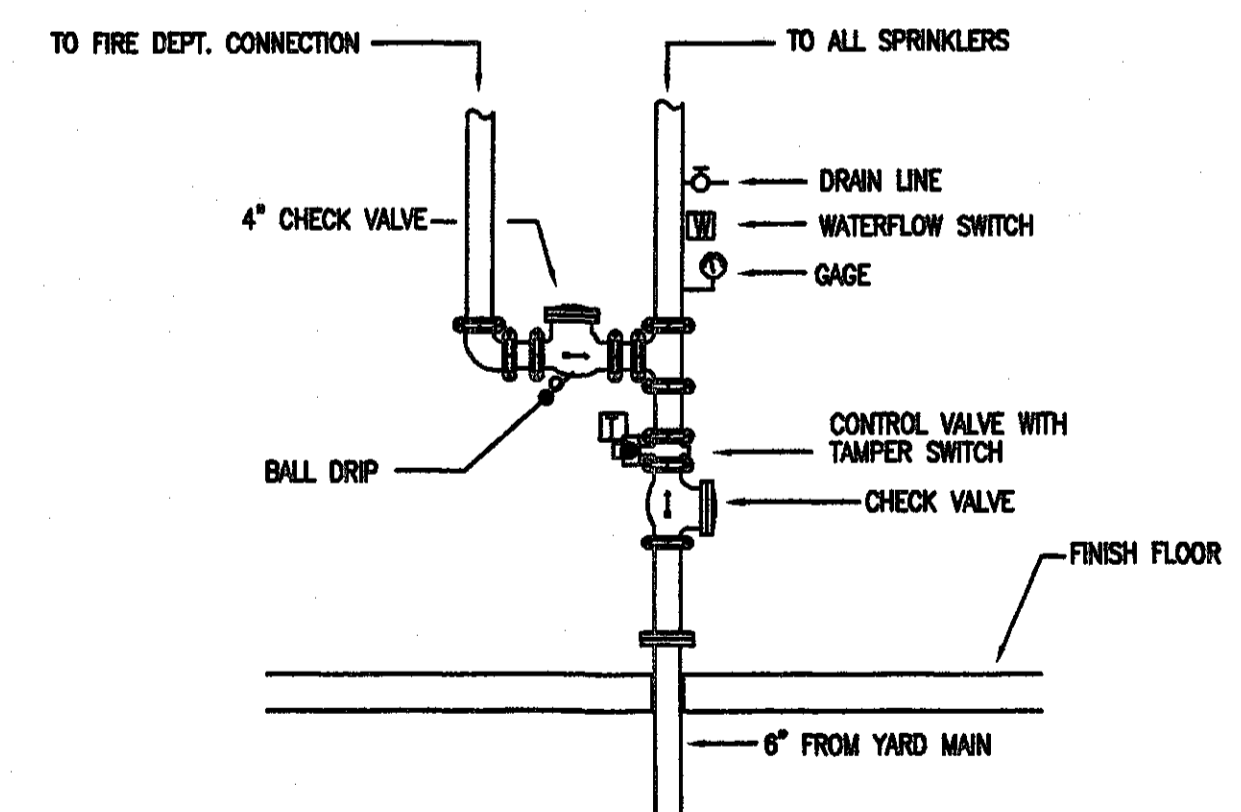
**DETAIL FOR RECESSED SPRINKLER**  
SCALE: NONE TYPICAL FOR ALL CEILINGS



SPRINKLER SYSTEM SCHEDULE					
ROOM OR AREA	SYSTEM TYPE	OCCUPANCY CLASSIFICATION	DENSITY GPM/SQ.FT.	CALCULATED AREA SQ.FT.	GPM HOSE ALLOWANCE
GYMNASIUM, LOCKERS, MULTI-PURPOSE, LOBBIES, AEROBICS, OFFICES, ETC.	WET PIPE	LIGHT	.10	1500	100
MECH, ELEC, KITCHEN, ETC.	WET PIPE	ORDINARY 1	.15	1500	250
STORAGE, , ETC.	WET PIPE	ORDINARY 2	.20	1500	250

**NOTES**

1. SPRINKLER COVERAGE TO BE PROVIDED THROUGHOUT ALL AREAS OF BUILDING .
2. EXACT LOCATION OF SPRINKLERS AND PIPING SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND OTHER TRADES AS APPROPRIATE.
3. SIZES NOT SHOWN TO BE PER CONTRACTOR HYDRAULIC CALCULATIONS.
4. ALL PIPING TO BE CONCEALED ABOVE CEILINGS, IN WALLS, AND IN PIPE CHASES. EXPOSED PIPING PERMITTED ONLY IN MECHANICAL ROOMS OR WHERE SUSPENDED CEILINGS DO NOT OCCUR.

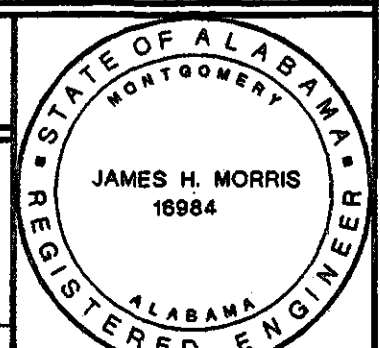


**MAIN SPRINKLER RISER SCHEMATIC**  
SCALE: NONE

**PARTIAL FIRE SPRINKLER PLAN - ALTERNATE BID**  
SCALE: 1/16"=1'-0"

**FIRE SPRINKLER PLAN - BASE BID**  
SCALE: 1/16"=1'-0"

**BORDEN & MORRIS**  
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903 SOUTH PERRY ST.  
MONTGOMERY ALA. 36104  
TEL. 334-269-0329  
FAX. 334-269-1559  
CAD NAME: 0155-P&ADNAME



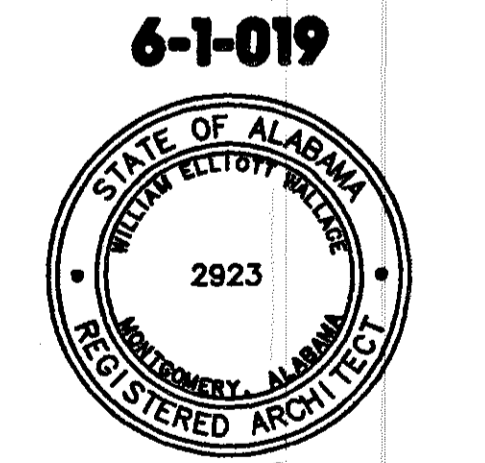
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**A NEW RECREATION COMPLEX**  
FOR THE  
**City of Orange Beach**  
alabama



Issue	date
Design Development	08/14/01
FINAL	00/00/01

drawn by: RSM III  
**FIRE SPRINKLER PLAN**

**95% SUBMITTAL**  
**FP1.1**  
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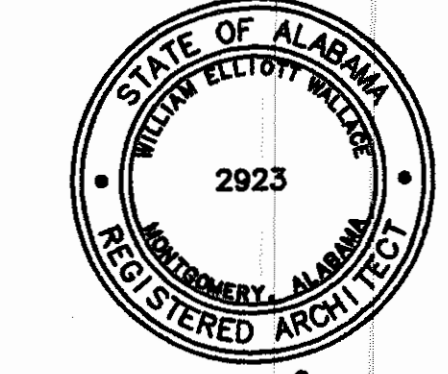
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**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

6-1-019



Issue	Date
Design Development	08/14/01
FINAL	09/17/01

drawn by: RB/SGJ

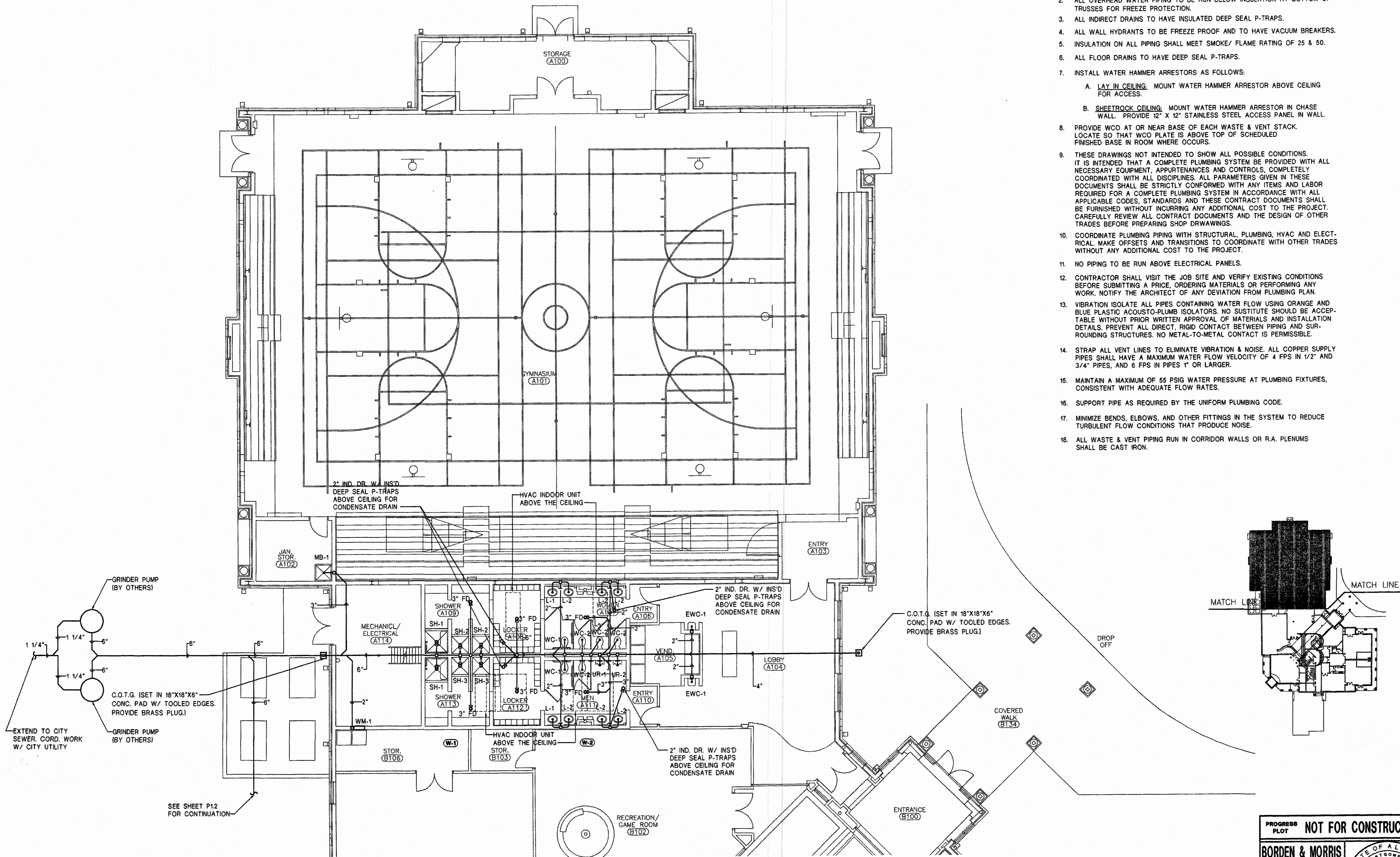
**WASTE AND VENT PIPING PLAN (PART-A) BID ITEM NO. 1**

95% SUBMITTAL

**P1.1**  
 sheet of 00

**PLUMBING GENERAL NOTES**

1. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
2. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
3. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
4. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
5. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
6. ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS.
7. INSTALL WATER HAMMER ARRESTORS AS FOLLOWS:
  - A. **LAY IN CEILING:** MOUNT WATER HAMMER ARRESTOR ABOVE CEILING FOR ACCESS.
  - B. **SHEETROCK CEILING:** MOUNT WATER HAMMER ARRESTOR IN CHASE WALL. PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL IN WALL.
8. PROVIDE WCO AT OR NEAR BASE OF EACH WASTE & VENT STACK. LOCATE SO THAT WCO PLATE IS ABOVE TOP OF SCHEDULED FINISHED BASE IN ROOM WHERE OCCURS.
9. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
10. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
11. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS.
12. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
13. VIBRATION ISOLATE ALL PIPES CONTAINING WATER FLOW USING ORANGE AND BLUE PLASTIC ACOUSTO-PLUMB ISOLATORS. NO SUBSTITUTE SHOULD BE ACCEPTABLE WITHOUT PRIOR WRITTEN APPROVAL OF MATERIALS AND INSTALLATION DETAILS. PREVENT ALL DIRECT, RIGID CONTACT BETWEEN PIPING AND SURROUNDING STRUCTURES. NO METAL-TO-METAL CONTACT IS PERMISSIBLE.
14. STRAP ALL VENT LINES TO ELIMINATE VIBRATION & NOISE. ALL COPPER SUPPLY PIPES SHALL HAVE A MAXIMUM WATER FLOW VELOCITY OF 4 FPS IN 1/2" AND 3/4" PIPES, AND 6 FPS IN PIPES 1" OR LARGER.
15. MAINTAIN A MAXIMUM OF 55 PSIG WATER PRESSURE AT PLUMBING FIXTURES, CONSISTENT WITH ADEQUATE FLOW RATES.
16. SUPPORT PIPE AS REQUIRED BY THE UNIFORM PLUMBING CODE.
17. MINIMIZE BENDS, ELBOWS, AND OTHER FITTINGS IN THE SYSTEM TO REDUCE TURBULENT FLOW CONDITIONS THAT PRODUCE NOISE.
18. ALL WASTE & VENT PIPING RUN IN CORRIDOR WALLS OR R.A. PLENUMS SHALL BE CAST IRON.



**WASTE AND VENT PIPING PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

**PROGRESS PLOT NOT FOR CONSTRUCTION**

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 CAD NAME: 0155-P11

**STATE OF ALABAMA**  
 REGISTERED ENGINEER  
 JAMES H. MORRIS  
 16984



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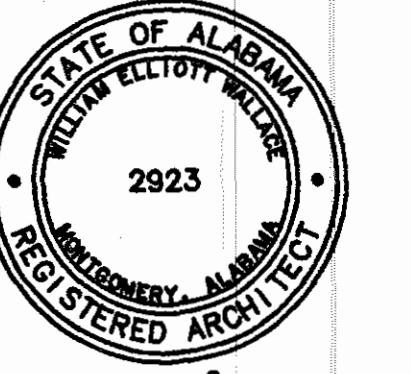
**STRUCTURAL ENGINEER**  
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325 North Hull Street  
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Phone: (334) 265-4531

**MECH. & ELEC. ENGINEER**  
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FOR THE  
*City of*  
**Orange  
Beach**  
alabama

**6-1-019**



**Issue date**

Design Development	06/14/01
FINAL	09/17/01

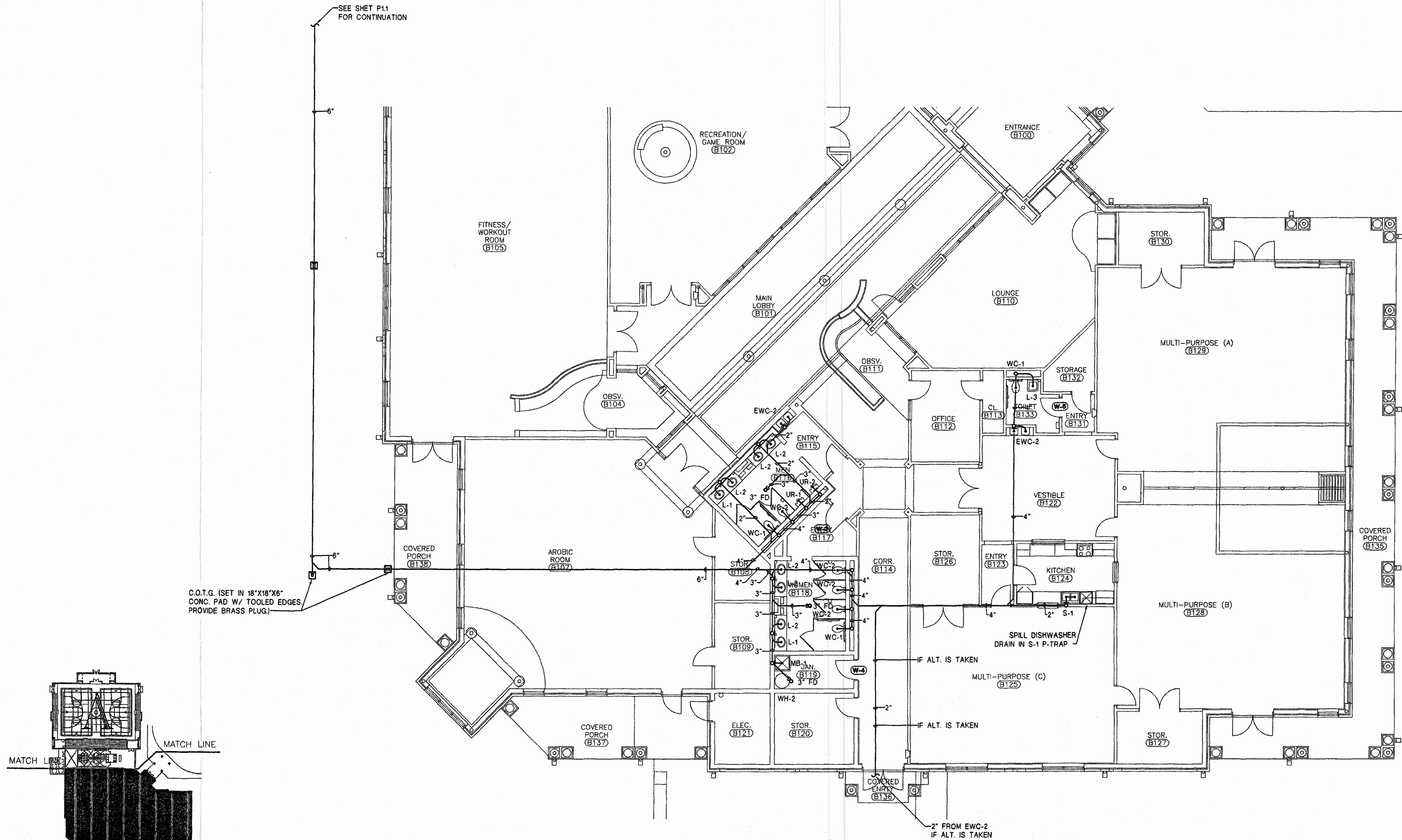
drawn by: RB/SQJ

**WASTE AND  
VENT PIPING  
PLAN  
(PART-B)  
BID ITEM  
NO. 1**

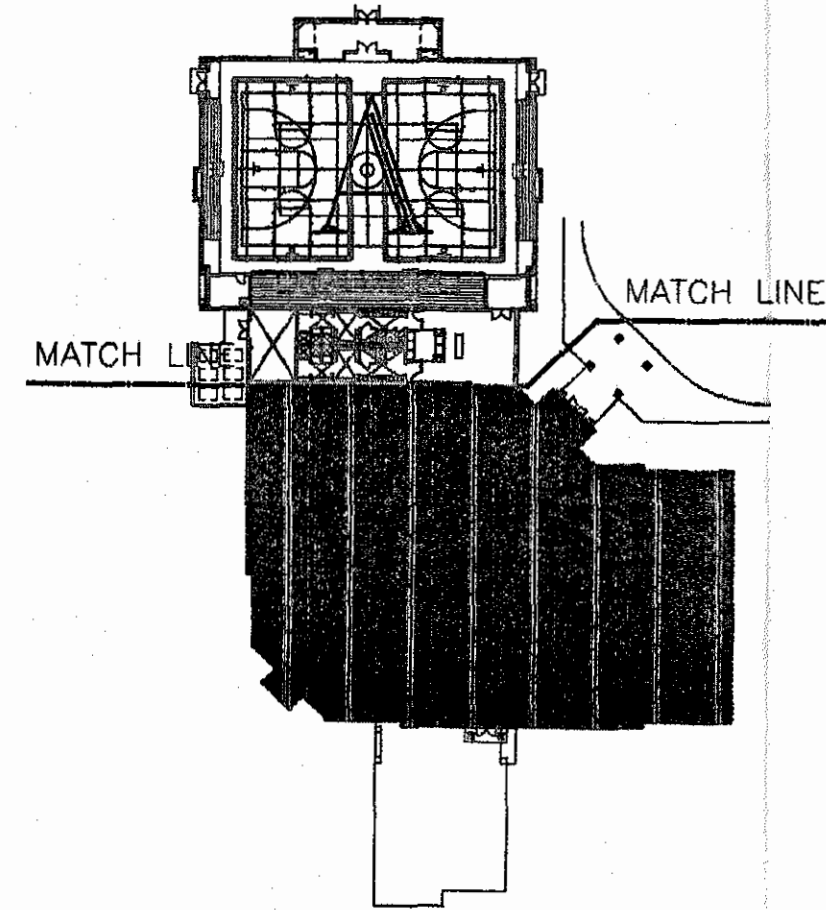
95% SUBMITTAL

**P1.2**

sheet of 00



C.O.T.G. ISET IN 18"X18"X6"  
CONC. PAD W/ TOOLED EDGES  
PROVIDE BRASS PLUG.

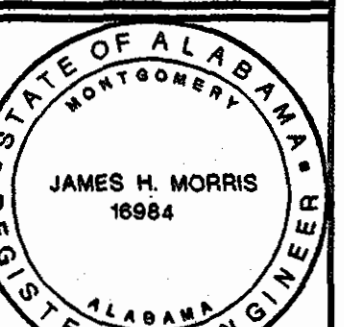


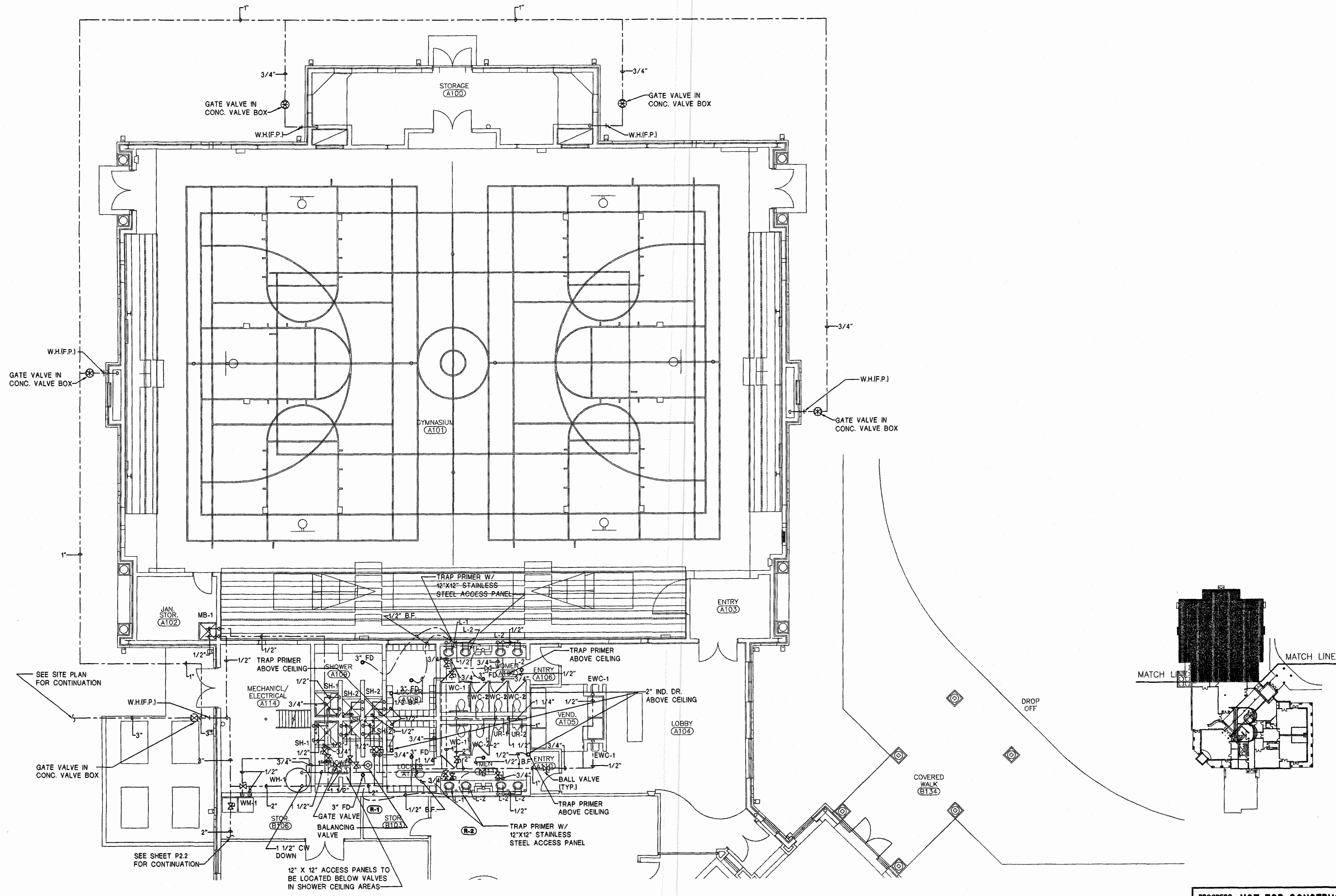
**WASTE AND VENT PIPING PLAN (PART-B) BID ITEM NO. 1**  
SCALE: 1/8"=1'-0"

PROGRESS PLOT NOT FOR CONSTRUCTION

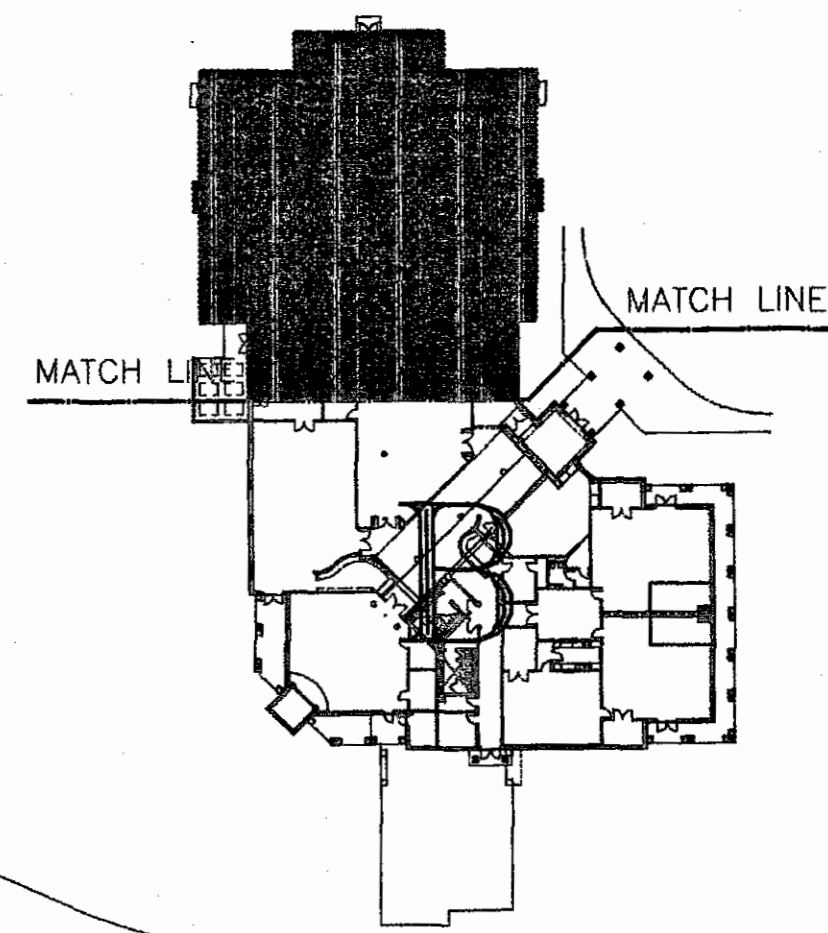
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CONSULTING ENGINEERS

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MONTGOMERY ALA. 36104  
TEL. 334-269-0329  
FAX. 334-269-1559





**WATER PIPING PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

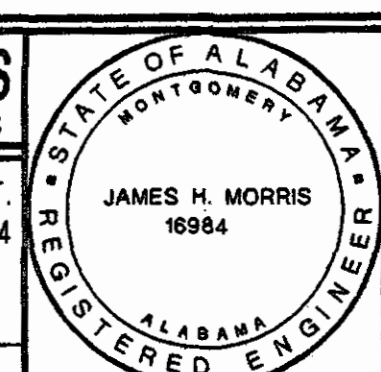


**PROGRESS PLOT NOT FOR CONSTRUCTION**

**BORDEN & MORRIS**  
 CONSULTING ENGINEERS

903 SOUTH PERRY ST.  
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CAD NAME: 0155-P2.1



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**P2.1**  
 sheet of 00

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**MECH. & ELEC. ENGINEER**  
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A NEW RECREATION COMPLEX  
 FOR THE  
*City of Orange Beach*  
 Alabama

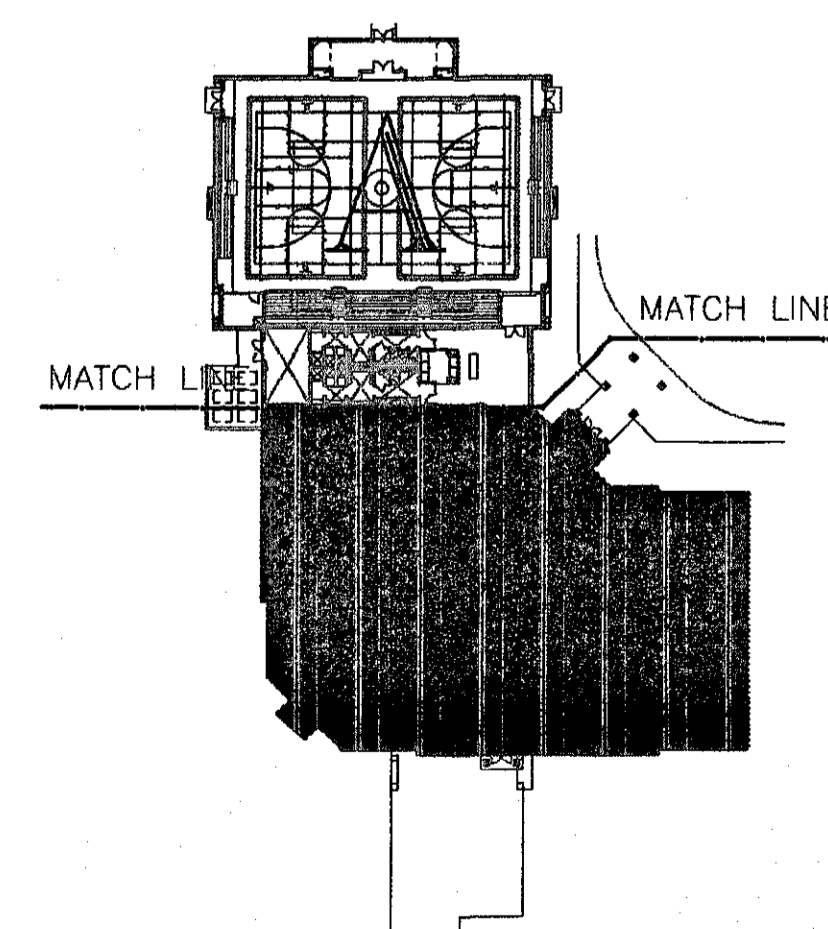
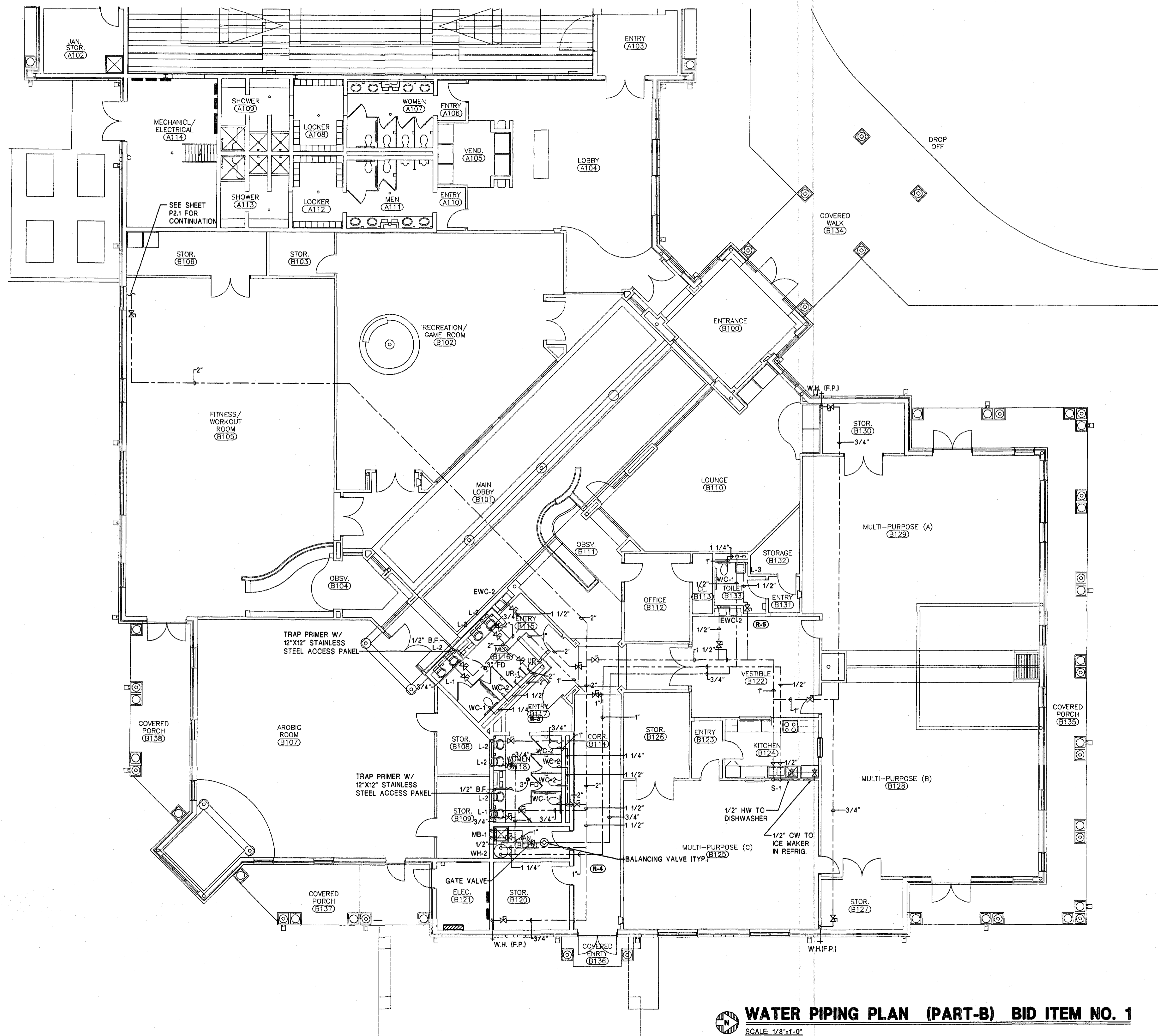
6-1-019

STATE OF ALABAMA  
 WILSON ELIOTT WILSON  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	Date
Design Development	08/14/01
FINAL	09/17/01

drawn by: RB/SGJ





**WATER PIPING PLAN (PART-B) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

PROGRESS PLOT NOT FOR CONSTRUCTION

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 CONSULTING ENGINEERS

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 MONTGOMERY ALA. 36104  
 TEL. 334-269-0329  
 FAX. 334-269-1559  
 CAD NAME: 0155-P2.1

STATE OF ALABAMA  
 REGISTERED ENGINEER  
 JAMES H. MORRIS  
 16984

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**A NEW RECREATION COMPLEX**  
 FOR THE  
*City of Orange Beach*  
 Alabama

6-1-019

STATE OF ALABAMA  
 MOUNTGOMERY  
 2923  
 REGISTERED ARCHITECT

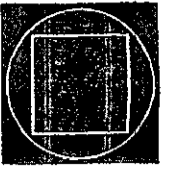
Issue	Date
Design Development	08/14/01
FINAL	09/17/01

drawn by: RB/SGJ

**WATER PIPING PLAN (PART-B) BID ITEM NO. 1**

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**P2.2**  
 sheet of 00



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&  
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Phone: (334) 269-0329

**A NEW  
RECREATION  
COMPLEX  
FOR THE**

*City of*  
**Orange  
Beach**  
alabama

**6-1-019**



Issue	date
Design Development	08/14/01
FINAL	09/17/01

drawn by: RB/SGJ

**RISERS**

**PROGRESS PLOT NOT FOR CONSTRUCTION**

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903 SOUTH PERRY ST.  
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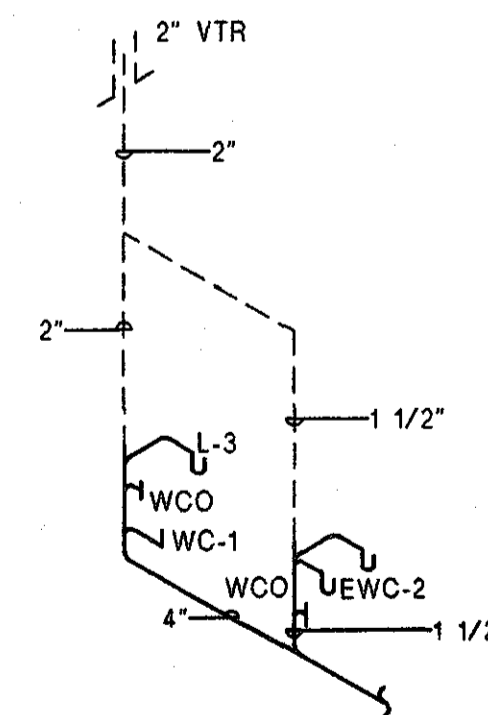
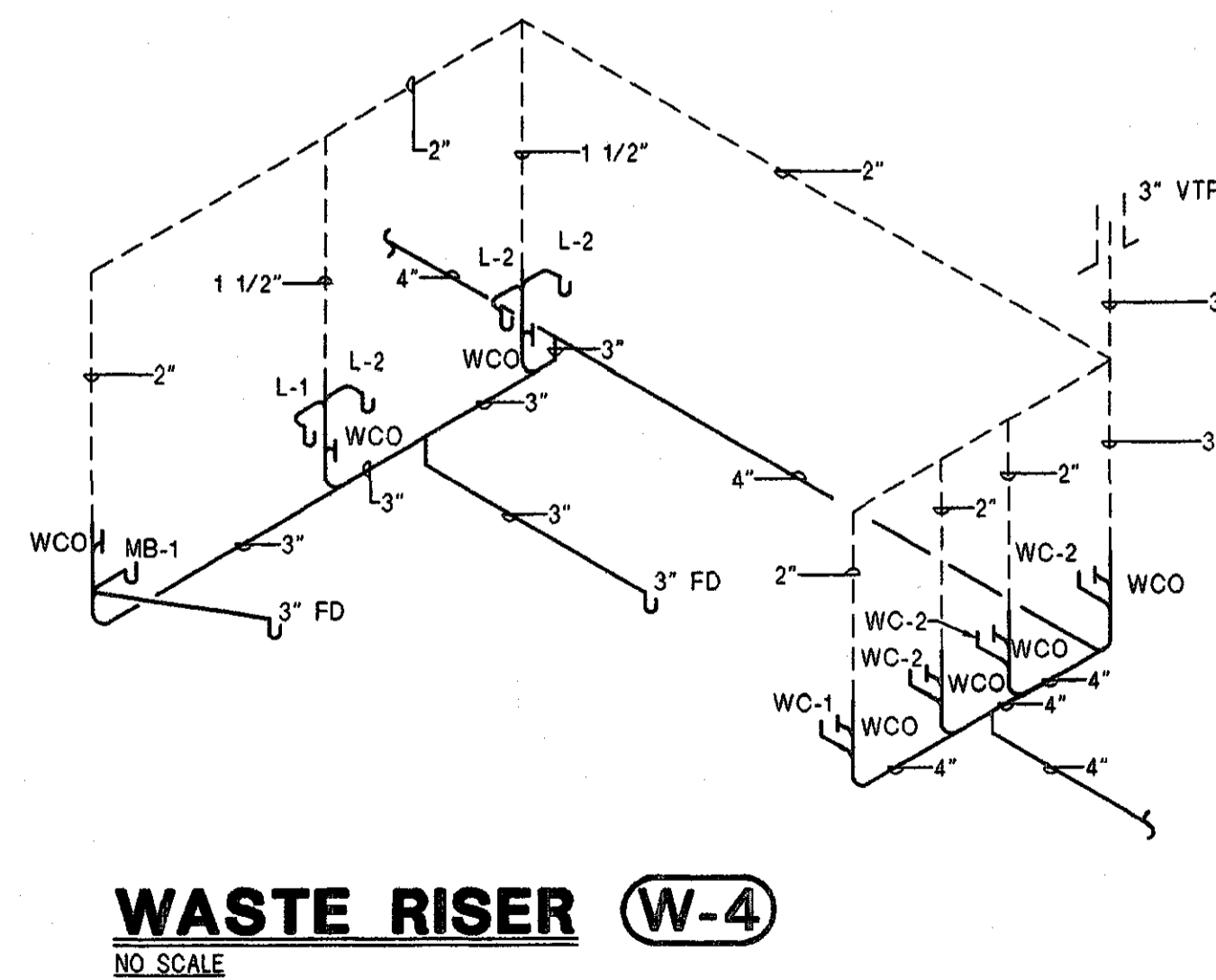
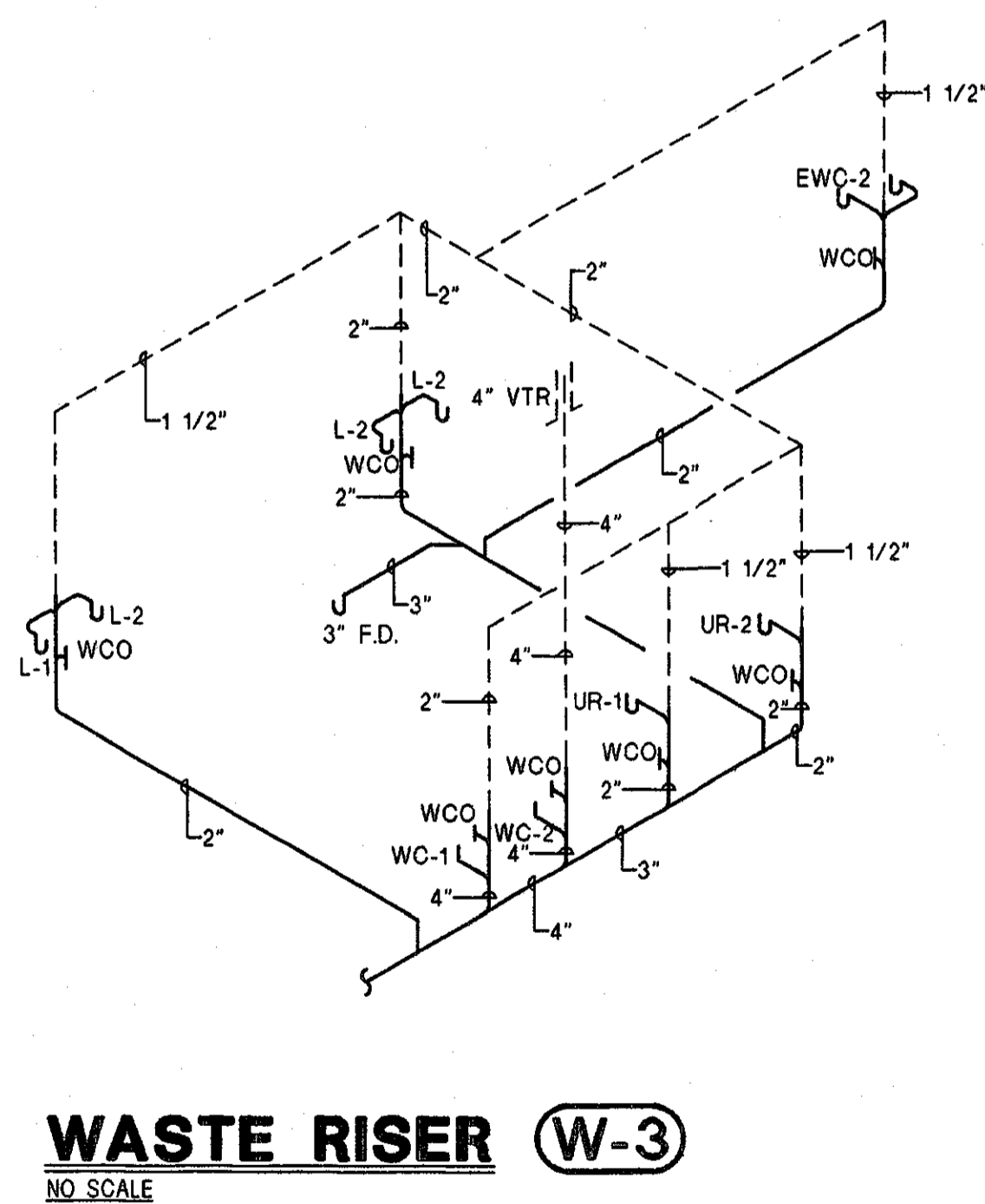
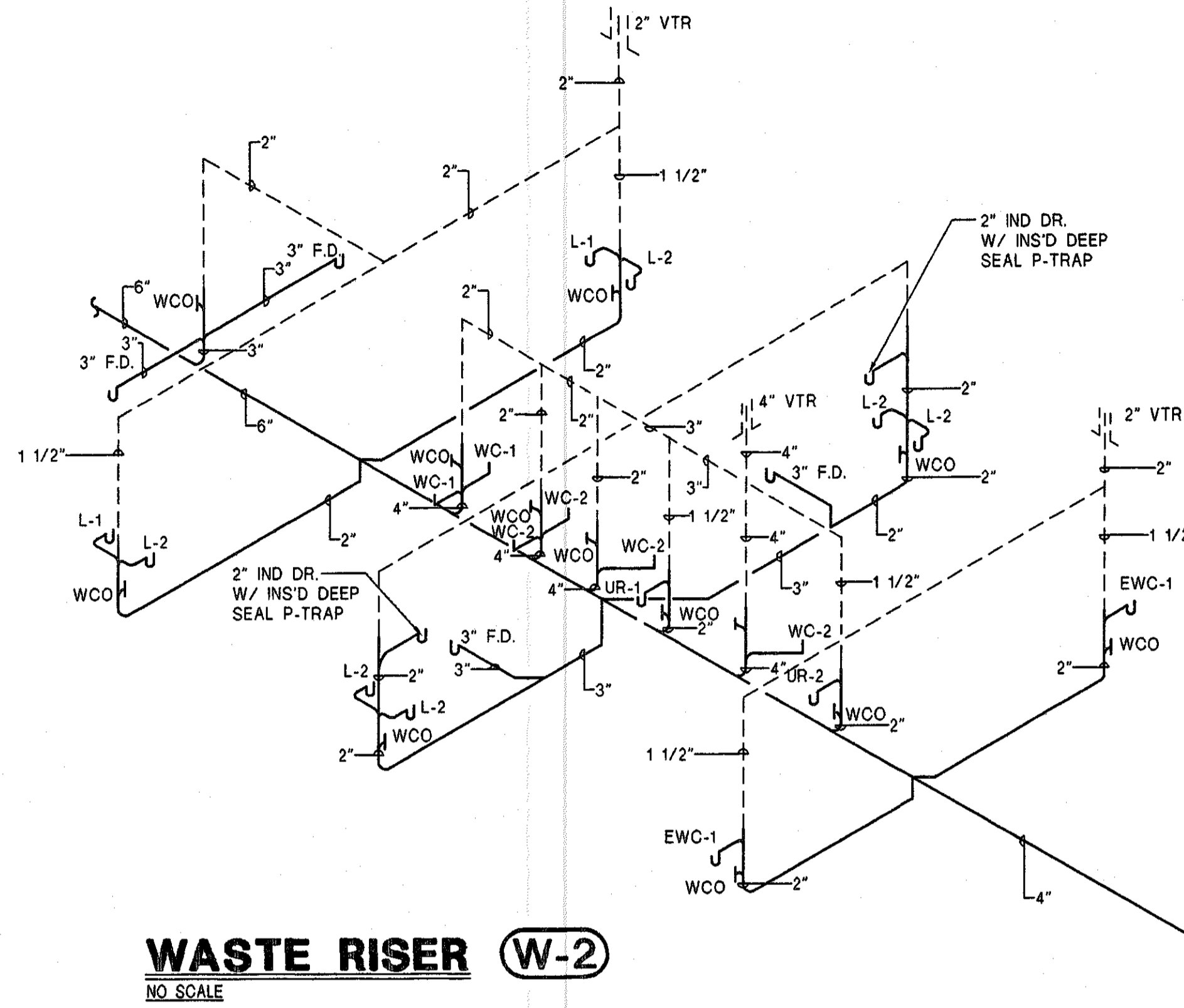
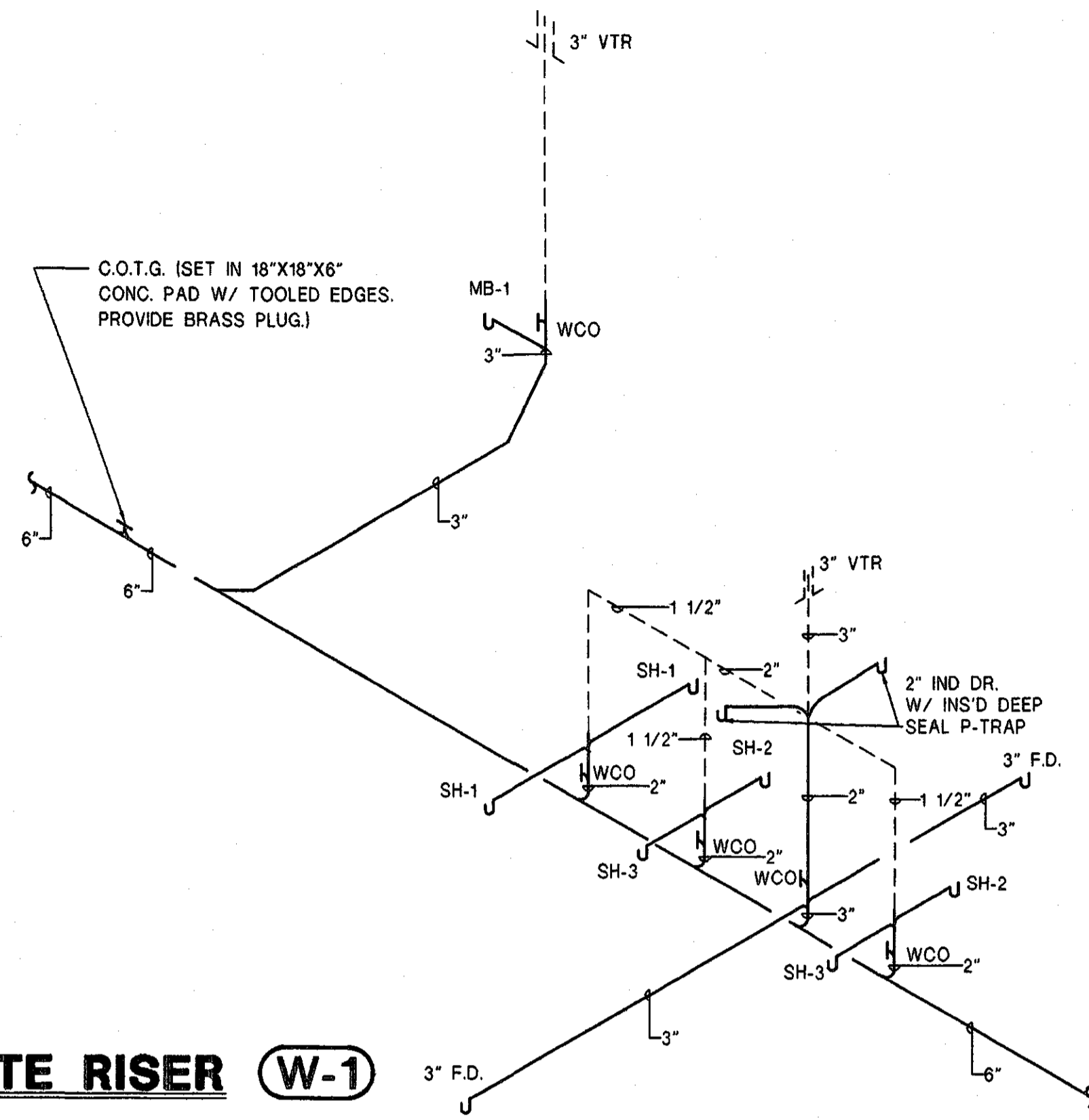
CAD NAME: 0155-P3.1

**STATE OF ALABAMA**  
REGISTERED ENGINEER  
JAMES H. MORRIS  
16984

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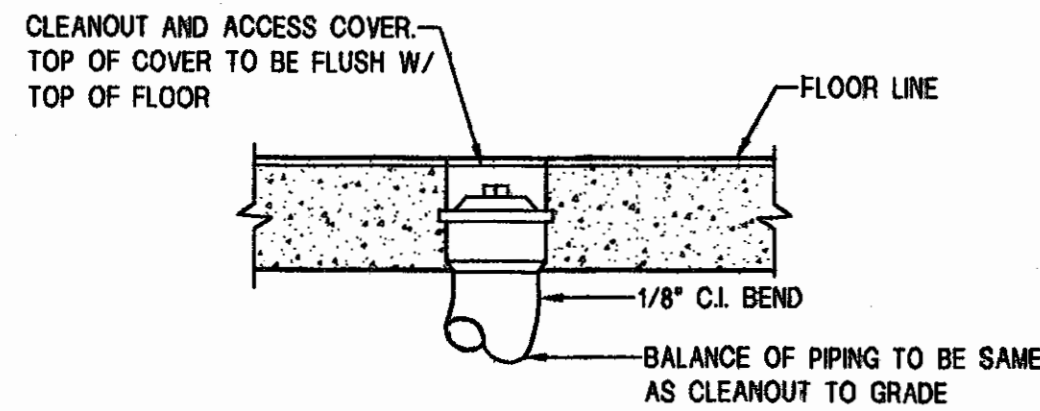
**NOTE:**  
ALL VENTS THRU ROOF (VTR)  
TO BE OFFSET TO  
BACK SIDE OF ROOF  
RIDGE.



### WATER HAMMER ARRESTOR SCHEDULE

P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-150	155-330

PROVIDE ACCESS FOR SERVICE



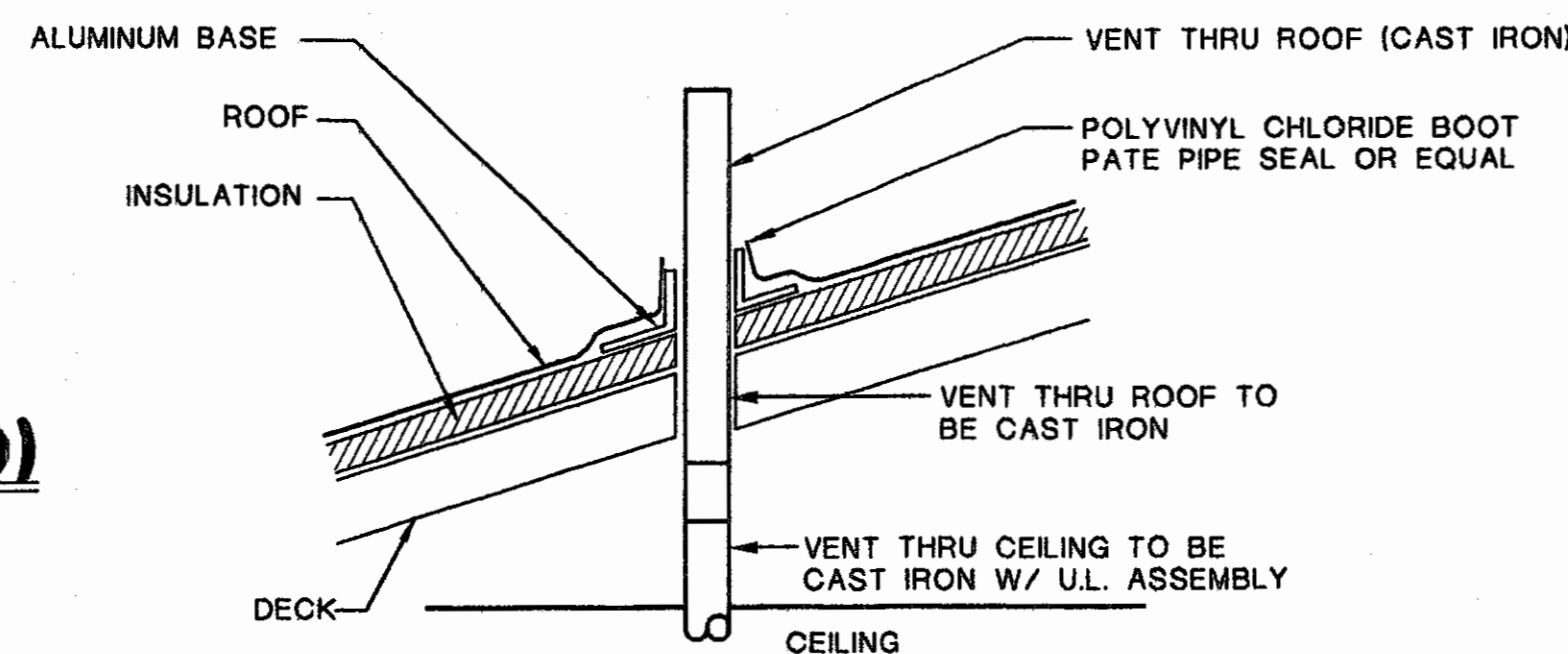
### FLOOR CLEANOUT DETAIL (FCO)

NO SCALE CLEANOUT NOT TO BE LOCATED IN ANY CARPETED AREAS.

### ELECTRIC WATER HEATER SCHEDULE

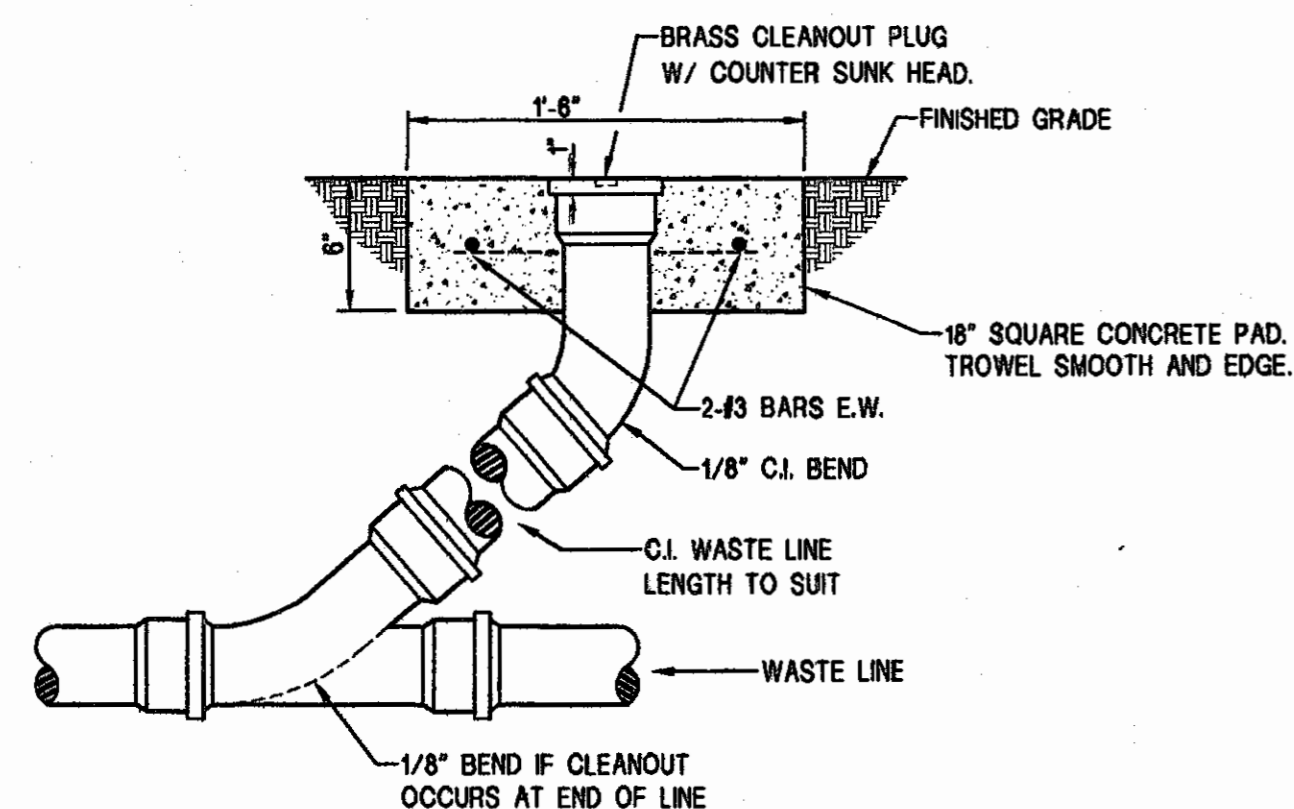
MARK	STORAGE CAP.	RECOVERY @ 100°	KW	VOLT	PH	CY	REMARKS
WH-2	120	99	24	208	3	80	2,3,4,5,6,7
WH-1	30	25	6	208	1	80	1, 2,4,5

1. BASED ON RHEEM MODEL EGS-30
2. PROVIDE THREE YEAR WARRANTY
3. BASED ON RHEEM MODEL E-120-24 OR EQUAL
4. PROVIDE CIRC. PUMP (SEE SPECS)
5. PROVIDE TIME CLOCK (SEE SPECS)
6. PROVIDE MIXING VALVE (SEE SPECS)
7. PROVIDE EXPANSION TANK (SEE SPECS)



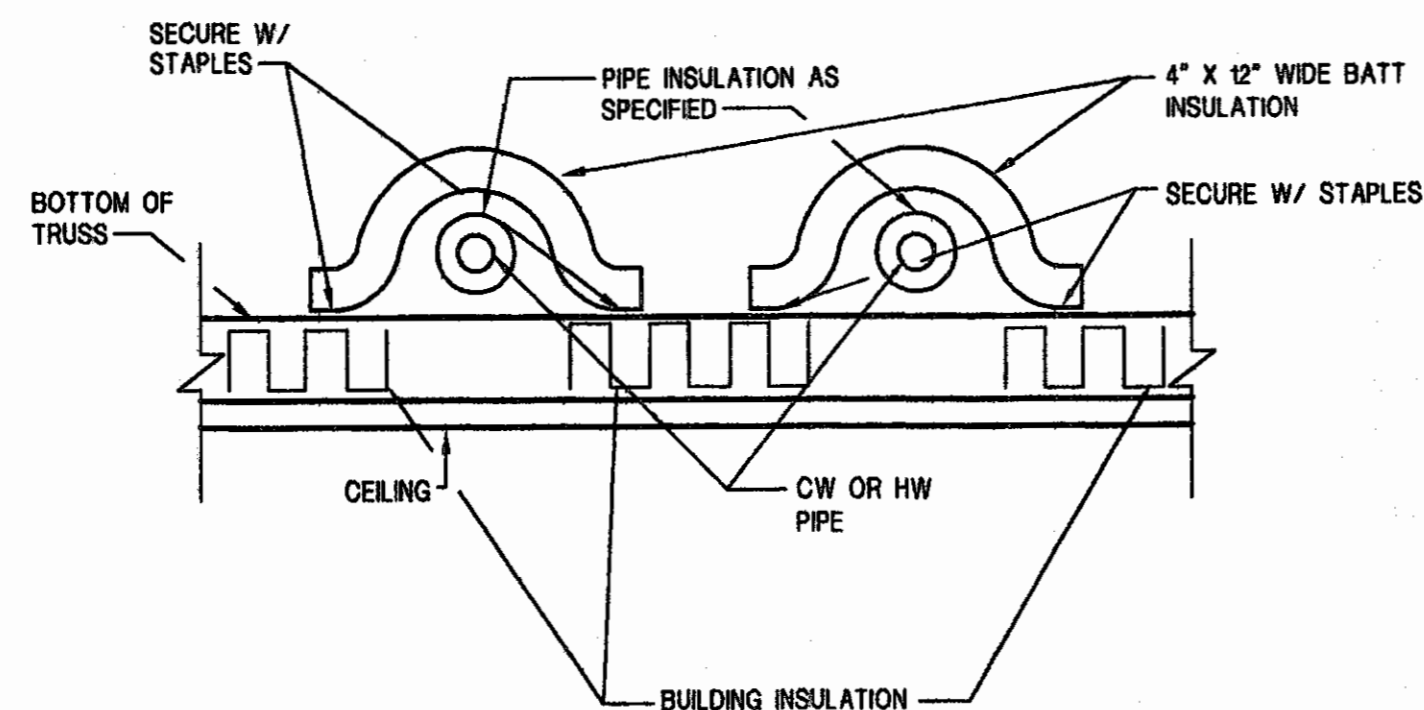
### VENT THRU ROOF DETAIL

NO SCALE



### CLEANOUT TO GRADE (COTG)

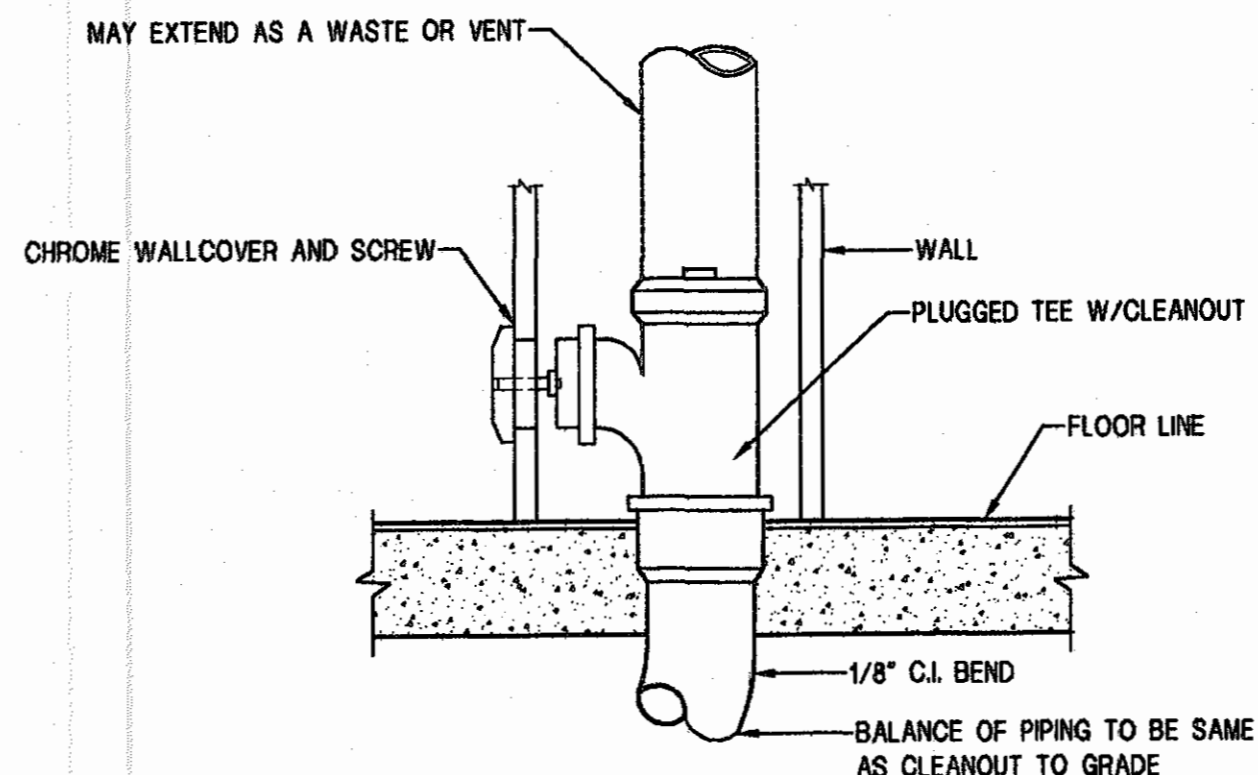
NO SCALE



### DETAIL OF ATTIC WATER PIPE INSULATION

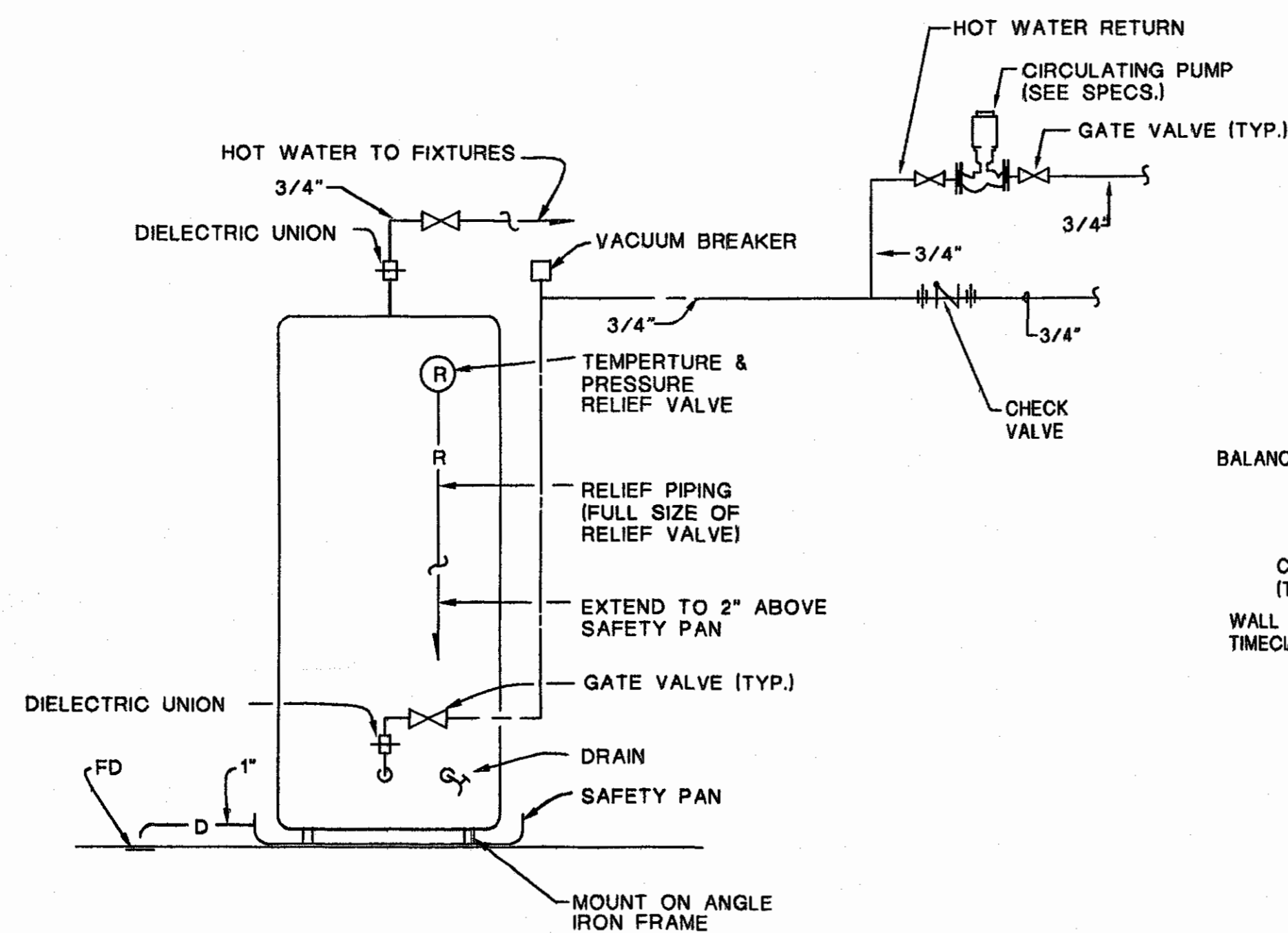
NO SCALE

NOTE: NO BUILDING INSULATION TO BE UNDER PIPING.



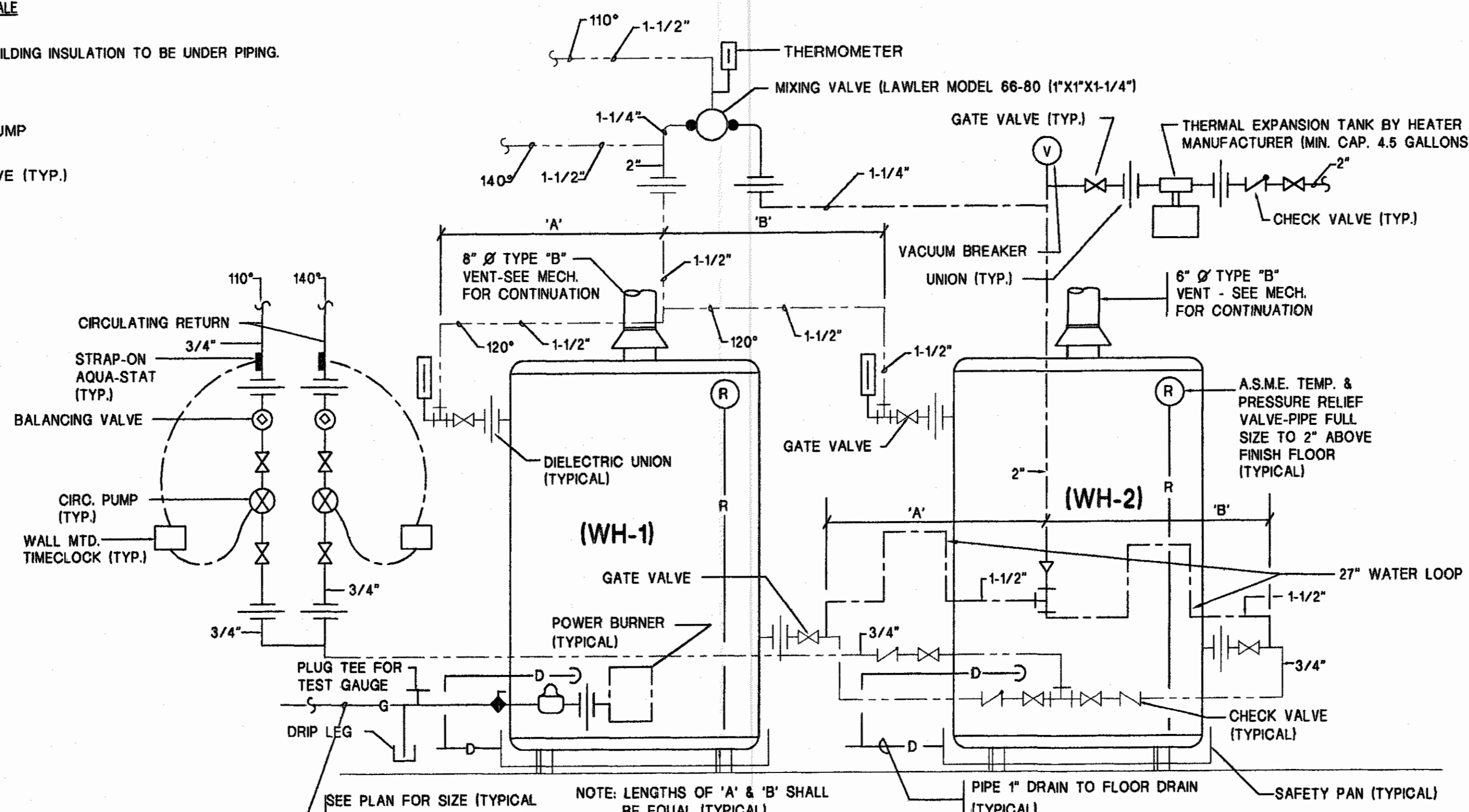
### WALL CLEANOUT DETAIL

NO SCALE



### WATER HEATER CONNECTIONS W/ CIRCULATING PUMP (WH-1)

NO SCALE



### WATER HEATER CONNECTION DETAIL

NO SCALE

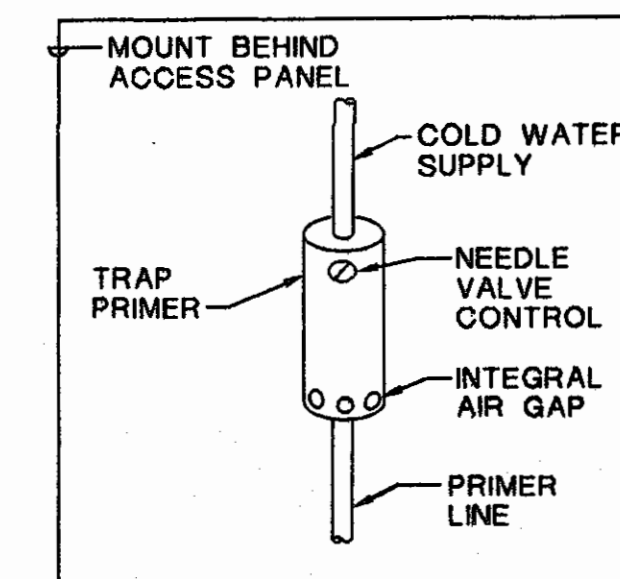
### PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	C	H	W	REMARKS
WC-1	WATER CLOSET (H/C)	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE, H/C
WC-2	WATER CLOSET	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE
UR-1	URINAL (H/C)	1"	---	2"	WALL MOUNTED, FLUSH VALVE, HANG 17\"/>
UR-2	URINAL	1"	---	2"	WALL MOUNTED, FLUSH VALVE
L-1	LAVATORY (H/C) * (METERING FAUCET)	1/2"	---	1-1/4"	COUNTERTOP
L-2	LAVATORY (METERING FAUCET)	1/2"	---	1-1/4"	COUNTERTOP
EWC-1	ELECTRIC WATER COOLER (H/C) * *	1/2"	---	1-1/4"	WALL MOUNTED, HANG 36\"/>
EWC-2	ELECTRIC WATER COOLER * *	1/2"	---	1-1/4"	WALL MOUNTED
SH-1	SHOWER (H/C)	1/2"	1/2"	2\"/>	
SH-1	SHOWER (MENS)	1/2"	1/2"	2\"/>	
SH-1	SHOWER (WOMENS)	1/2"	1/2"	2\"/>	

- \* INSULATE P-TRAP, DRAIN AND SUPPLIES WITH HANDI LAV GUARD INSULATION KIT #102W OR EQUAL BY TRAP WRAP & MCGUIRE PRO WRAP
- \*\* STAINLESS STEEL SAFETY BUBBLER

### LEGEND

	WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER RETURN PIPING
	HOT WATER PIPING
	C.O.T.G. (SET IN 18\"/>
	F.D. FLOOR DRAIN
	BALL VALVE
	WASTE RISER
	WATER RISER
	W.H. (F.P.) WALL HYDRANT (FREEZEPROOF)
	GATE VALVE IN CONC. VALVE BOX
	BELOW FLOOR
	V.T.R. VENT THRU ROOF
	W.C.O. WALL CLEANOUT
	F.C.O. FLOOR CLEANOUT
	BALANCING VALVE
	GATE VALVE



### TRAP PRIMER DETAIL

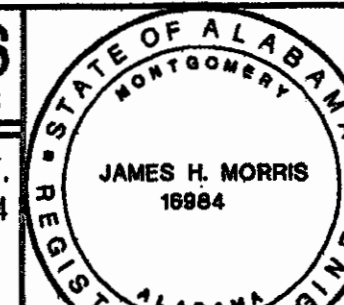
NO SCALE

PROGRESS PLOT NOT FOR CONSTRUCTION

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903 SOUTH PERRY ST. MONTGOMERY ALA. 36104  
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CAD NAME:



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6-1-019

STATE OF ALABAMA  
MONTGOMERY ARCHITECTURE REGISTERED ARCHITECT  
2923

Issue date  
Design Development 08/14/01  
FINAL 00/00/01

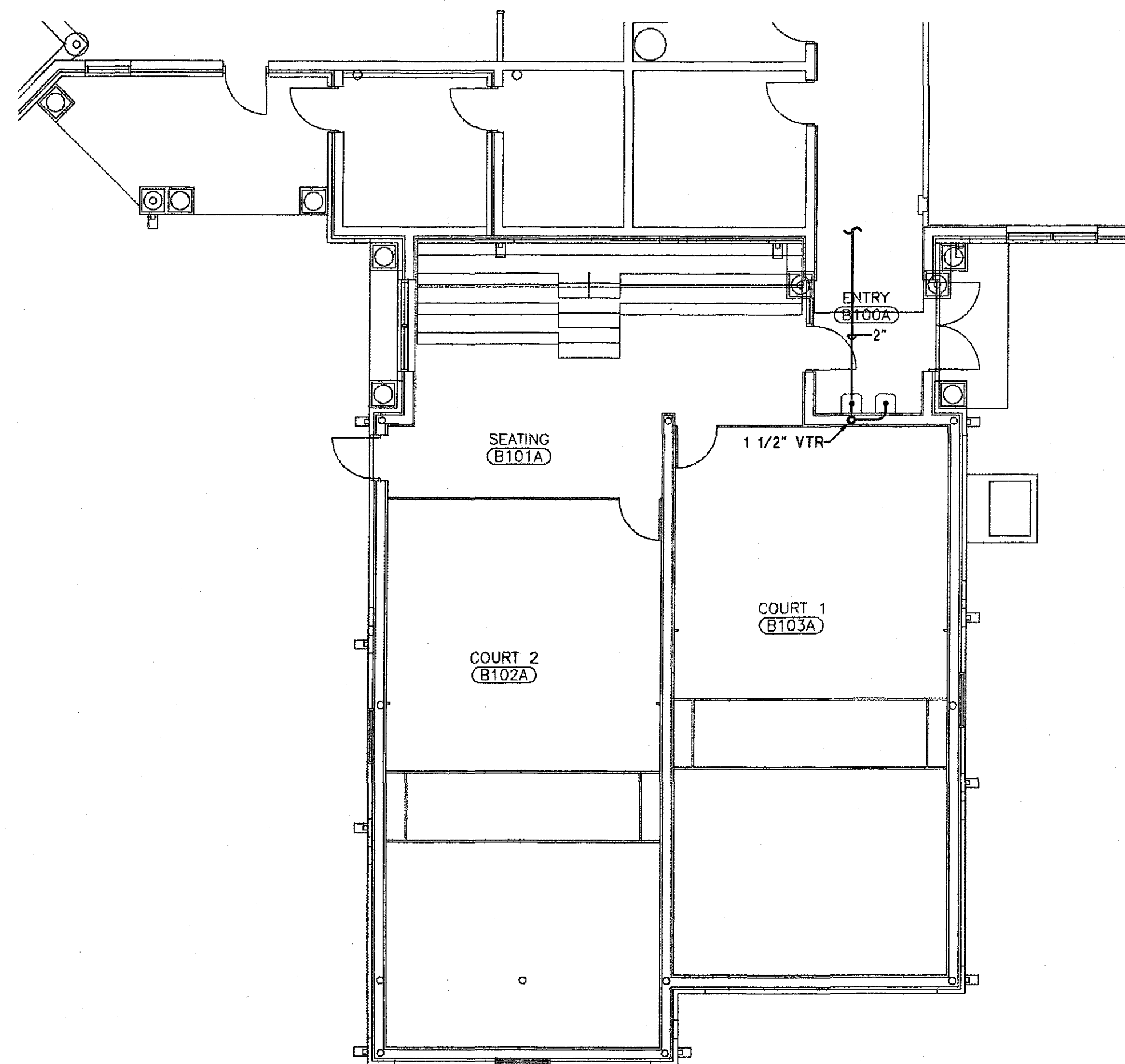
drawn by: RIBORU

A NEW RECREATION COMPLEX FOR THE City of Orange Beach Alabama

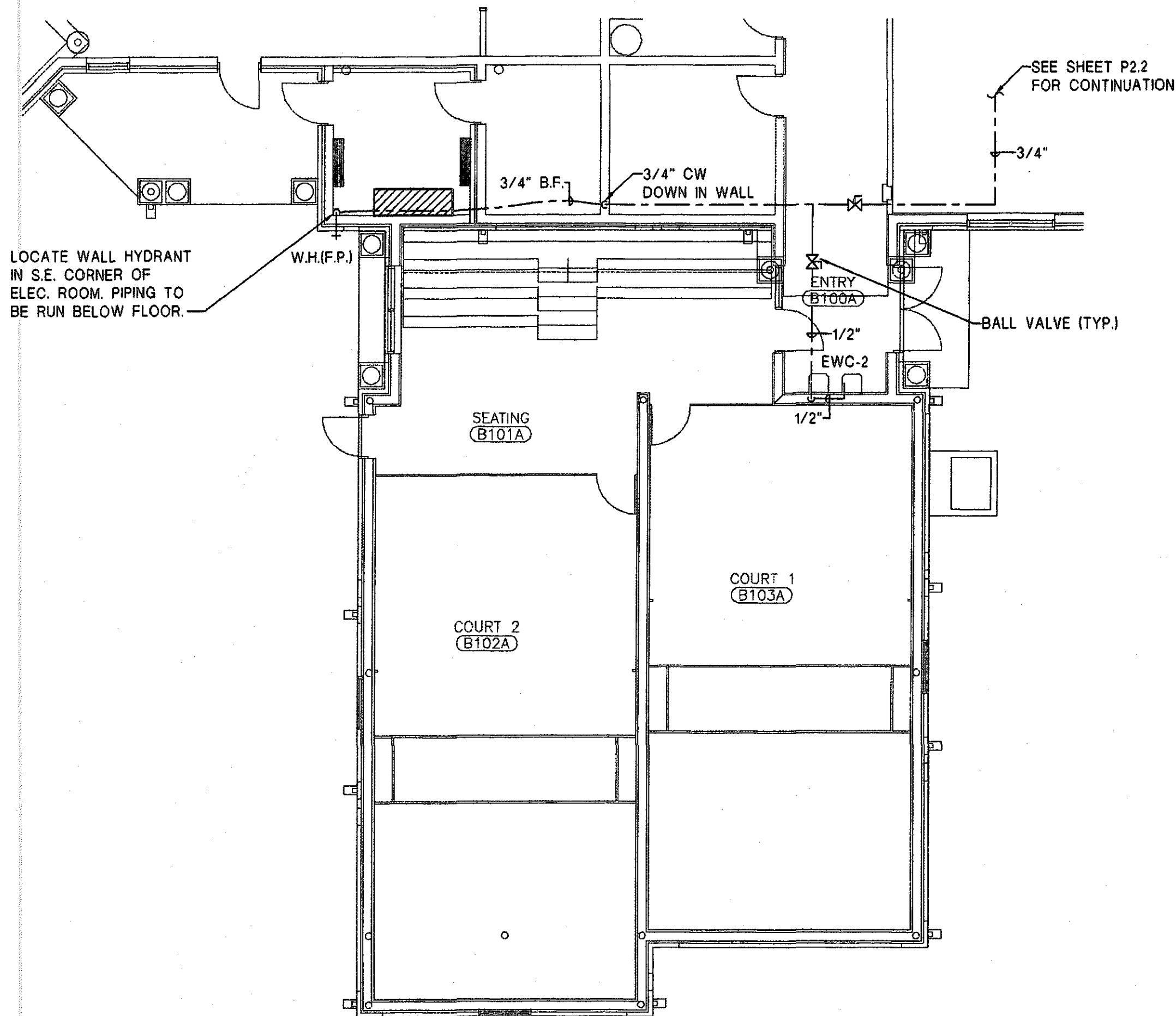
PLUMBING DETAILS AND SCHEDULES

95% SUBMITTAL

**P4.1**  
sheet of 00



**ALT. WASTE AND VENT PIPING PLAN (PART-C) BID ITEM NO. 2**  
SCALE: 1/8"=1'-0"



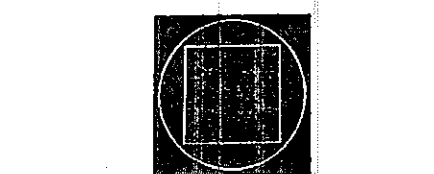
**ALT. WATER PIPING PLAN (PART-C) BID ITEM NO. 2**  
SCALE: 1/8"=1'-0"

PROGRESS PLOT NOT FOR CONSTRUCTION

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FAX. 334-269-1559  
CAD NAME: 0155-P5.1

STATE OF ALABAMA  
REGISTERED ENGINEER  
JAMES H. MORRIS  
19984



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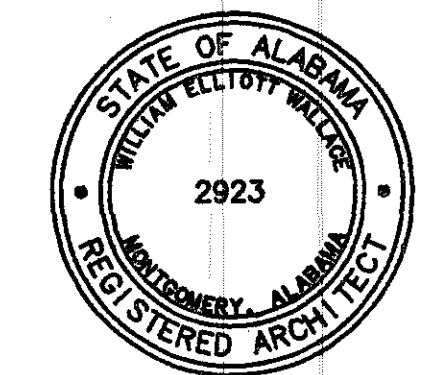
**STRUCTURAL ENGINEER**  
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A NEW RECREATION COMPLEX

FOR THE  
*City of Orange Beach*  
alabama

6-1-019

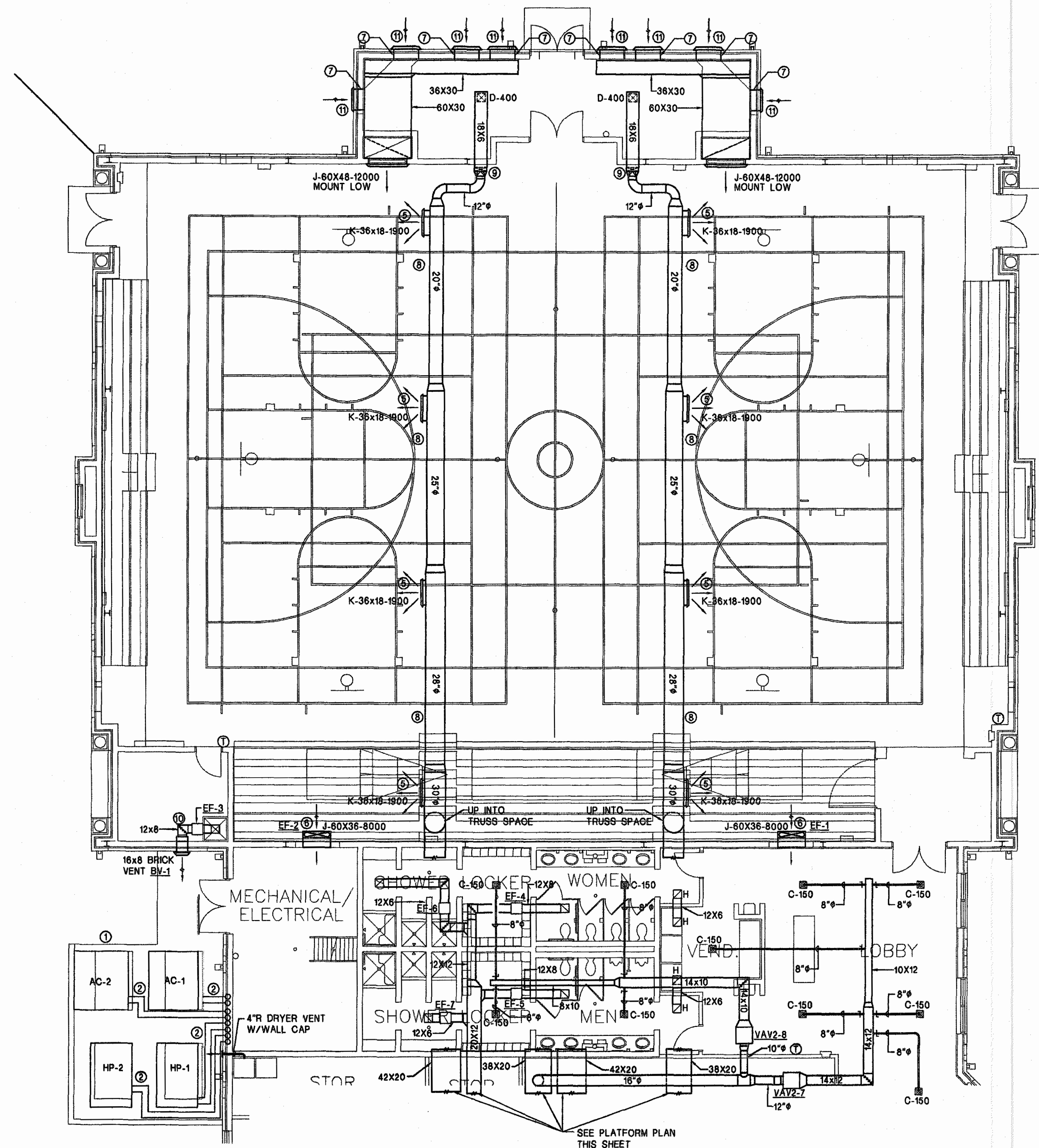


Issue	date
Design Development	08/14/01
FINAL	08/17/01

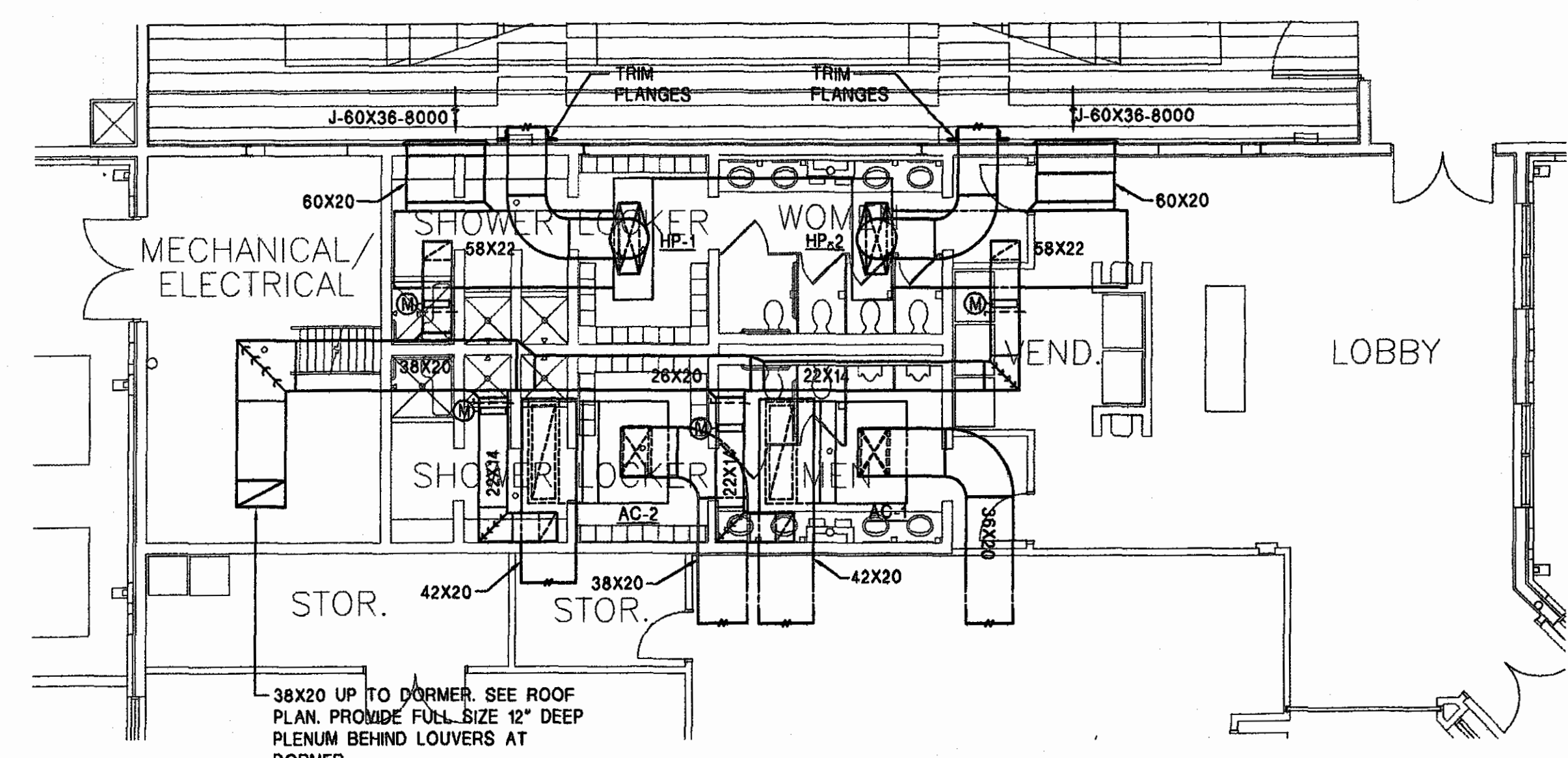
drawn by: RB/AG

**ALT. WASTE AND WATER PIPING PLAN (PART-C) BID ITEM NO. 2**

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**P5.1**  
sheet of 00

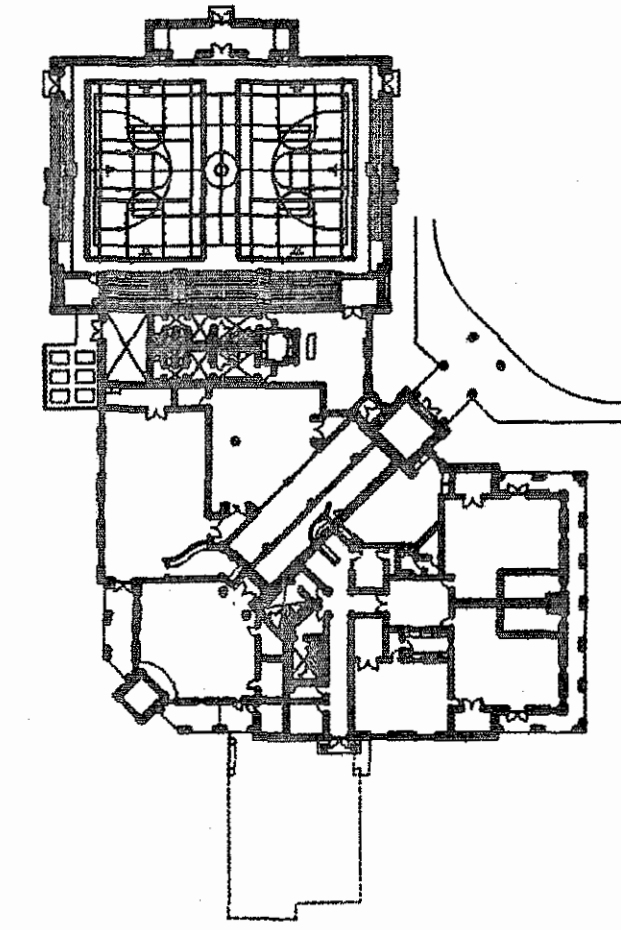


**MECHANICAL FLOOR PLAN (PART-A)**  
SCALE: 1/8"=1'-0"



**MECHANICAL PLATFORM FLOOR PLAN (PART-A)**  
SCALE: 1/8"=1'-0"

- NOTE LEGEND: (THIS SHEET ONLY)
- ① 4" THICK LEVEL CONCRETE PAD W/TURN DOWN EDGE BY G.C.
  - ② REFRIGERANT LINES & CONTROL WIRING FROM OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT. COVER EXTERIOR REFRIGERANT PIPING W/ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT.
  - ③ PROVIDE A COMPLETE OPERATING HEAT PUMP SYSTEM. INSTALL DUCT HIGH AND PROVIDE DUCT OFFSETS AS REQUIRED TO PROVIDE SERVICE TO EQUIPMENT.
  - ④ PROVIDE A COMPLETE OPERATING GAS FIRED AIR CONDITIONING UNIT. INSTALL DUCT HIGH AND PROVIDE DUCT OFFSETS AS REQUIRED TO PROVIDE SERVICE TO EQUIPMENT.
  - ⑤ SIDEWALL REGISTERS SHALL BE SHIFTED IN FIELD TO MISS TRUSS WEBBING. (TYPICAL)
  - ⑥ MOUNT TOP OF EXHAUST FAN CASING AT BEARING 23' ABOVE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS.
  - ⑦ 30X24 DUCT FROM FULL SIZE PLENUM BEHIND LOUVERS.
  - ⑧ RUN DUCTWORK IN TRUSS SPACE.
  - ⑨ 18X8 SUPPLY DUCT DOWN TO CEILING SUPPLY DIFFUSER. COVER 18X8 DUCT WITH 20 GAUGE ALUMINUM COVER WITH CUSTOM BAKED ENAMEL FINISH TO MATCH GYM WALL.
  - ⑩ PROVIDE A COMPLETE OPERATING EXHAUST FAN SYSTEM.
  - ⑪ 30X30 LOUVERS. SEE ARCHITECTURAL DRAWINGS.



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**BORDEN & MORRIS**  
CONSULTING ENGINEERS

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FAX. 334-269-1559

STATE OF ALABAMA REGISTERED ENGINEER  
JAMES H. MORRIS  
19984

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A NEW RECREATION COMPLEX FOR THE  
*City of Orange Beach*  
alabama

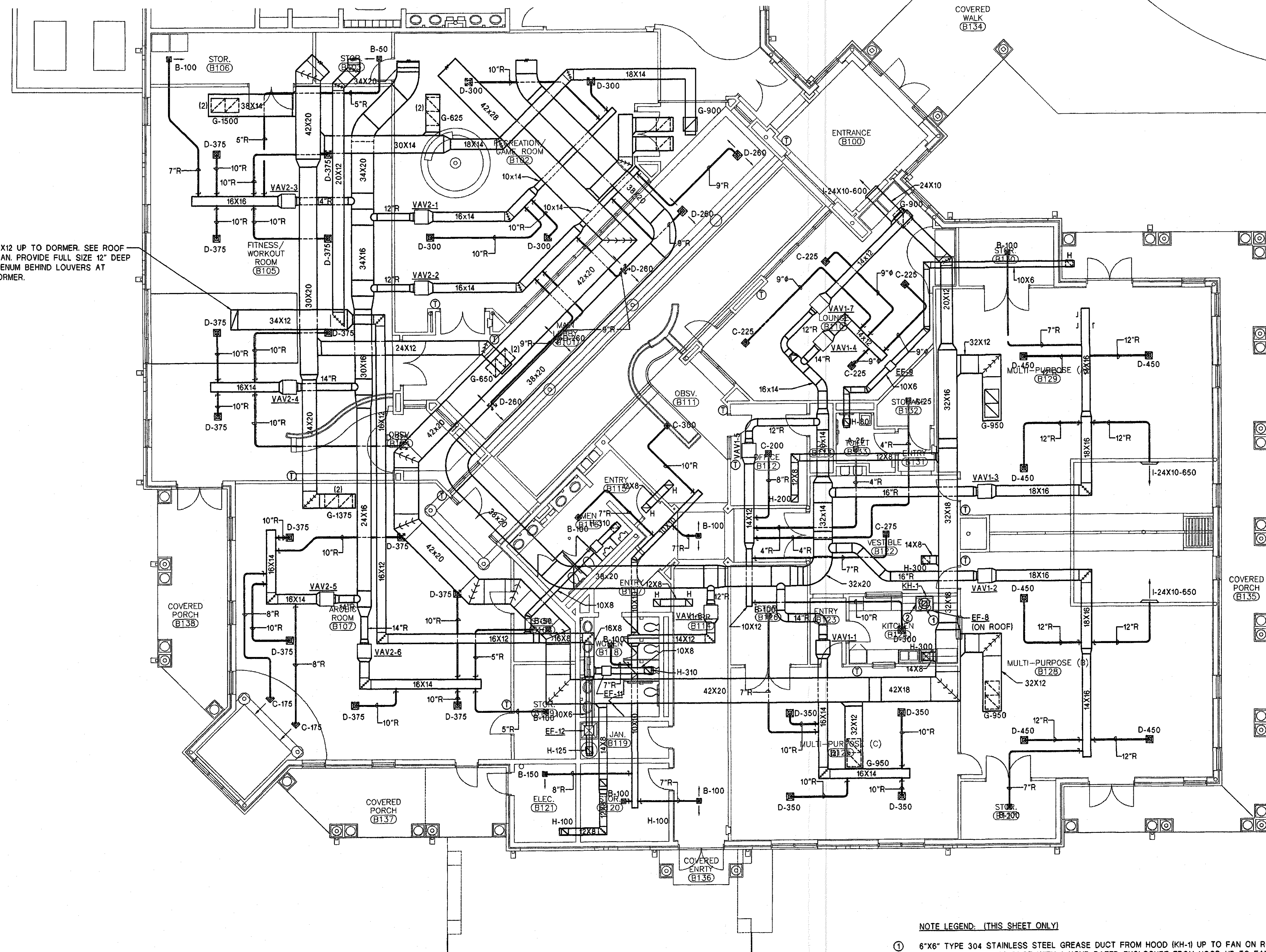
6-1-019

STATE OF ALABAMA  
WILLIE ELLIOTT WELLS  
2923  
REGISTERED ARCHITECT

Issue	Date
Design Development	08/14/01
FINAL	00/00/01

drawn by: DIBGINBY  
**MECHANICAL FLOOR PLAN PART-A**

95% SUBMITTAL  
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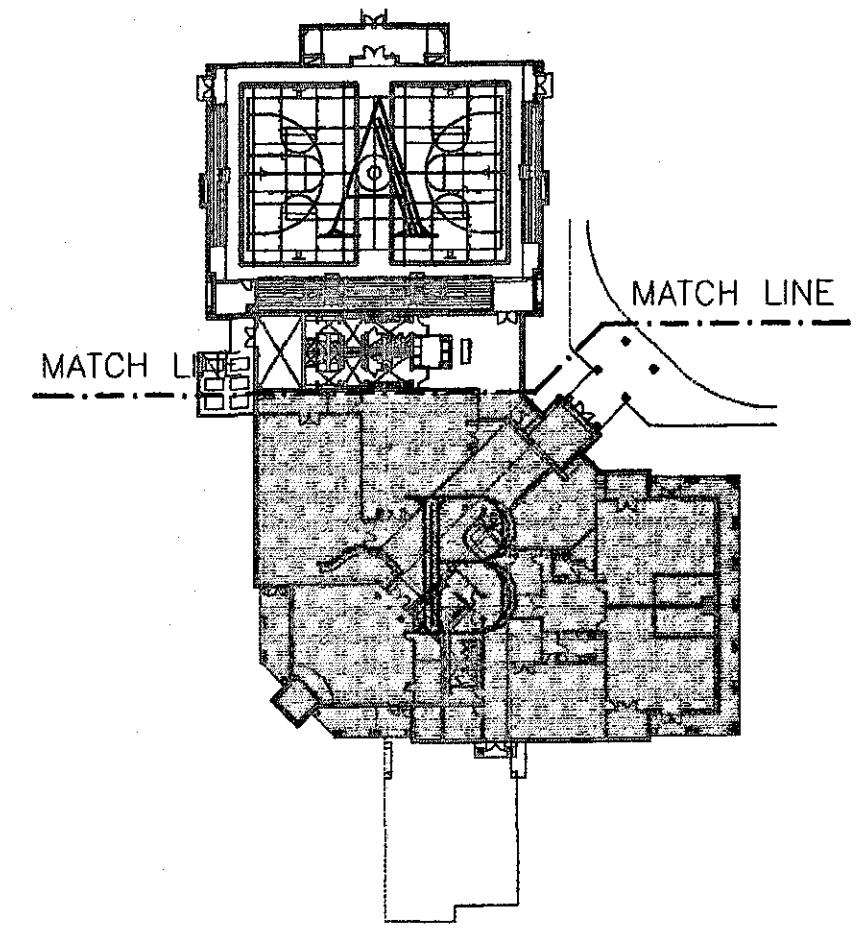


20X12 UP TO DORMER. SEE ROOF PLAN. PROVIDE FULL SIZE 12" DEEP PLENUM BEHIND LOUVERS AT DORMER.

**NOTE LEGEND: (THIS SHEET ONLY)**

- ① 6"x6" TYPE 304 STAINLESS STEEL GREASE DUCT FROM HOOD (KH-1) UP TO FAN ON ROOF (EF-2). COMPLY WITH NFPA-96. WRAP DUCT WITH 2 HOUR RATED ENCLOSURE FROM HOOD UP TO FAN. 3M "FIREMASTER" OR EQUIVALENT.
- ② BACK SHELF KITCHEN HOOD W/ FIRE SUPPRESSION SYSTEM.

**MECHANICAL FLOOR PLAN (PART-B) BID ITEM NO. 1**  
 SCALE: 1/8" = 1'-0"



**PROGRESS PLOT NOT FOR CONSTRUCTION**

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 CONSULTING ENGINEERS

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 FAX. 334-269-1559

CAD NAME: 0165-M2

STATE OF ALABAMA  
 JAMES H. MORRIS  
 19984  
 REGISTERED ENGINEER

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 903 South Perry Street  
 Montgomery, Alabama 36104  
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**A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama**

**6-1-019**

STATE OF ALABAMA  
 WALTER TILLOTTS WELLS  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

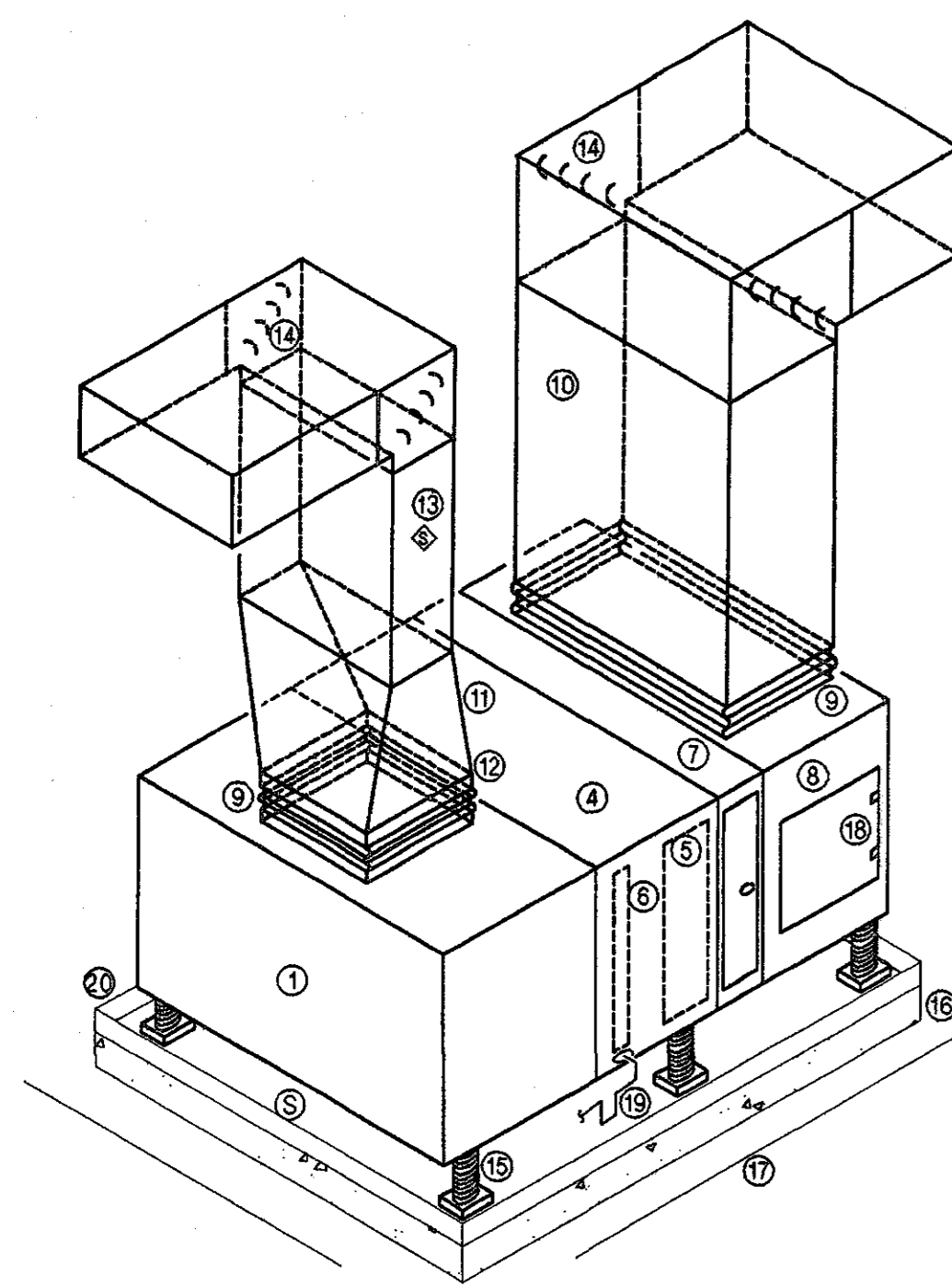
Issue date	
Design Development	09/14/01
FINAL	09/17/01

drawn by: DRAWNBY

**MECHANICAL FLOOR PLAN PART-B BID ITEM NO. 1**

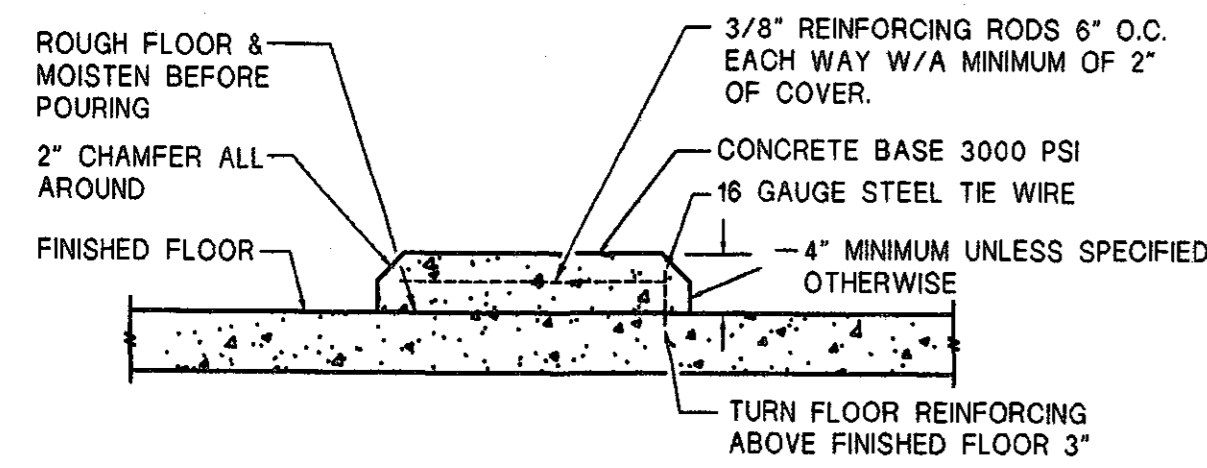
**95% SUBMITTAL**

**M1.2**  
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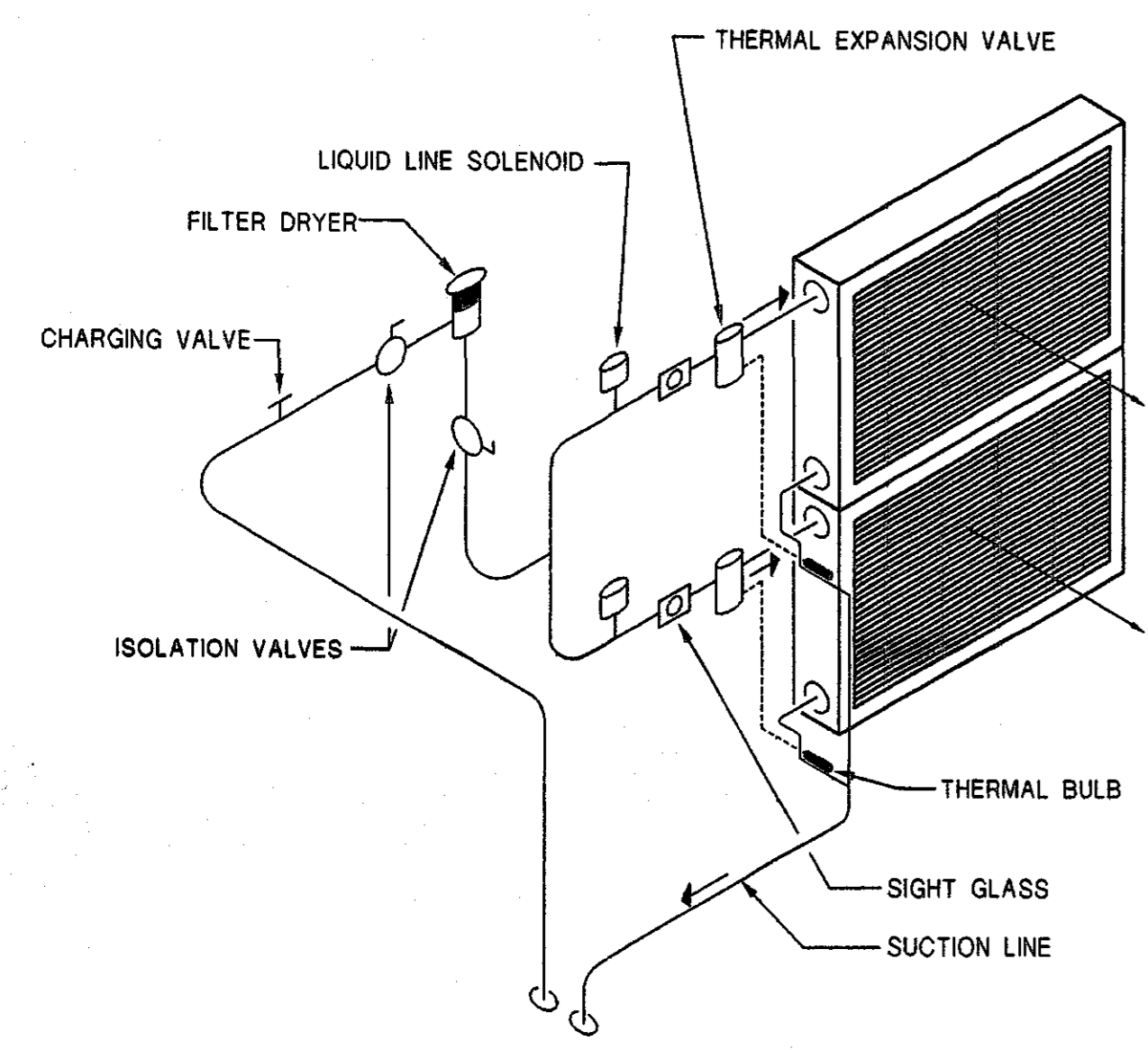


- LEGEND: (THIS DETAIL ONLY)
- ① FAN SECTION WITH INTERNAL SPRING VIBRATION ISOLATION.
  - ② HI EFFICIENCY INTERNAL MOTOR
  - ③ DELETED
  - ④ COIL SECTION. PROVIDE COIL PULL CLEARANCE.
  - ⑤ DX COOLING COIL
  - ⑥ ELECTRIC HEATING COIL
  - ⑦ 2" FLAT FILTER SECTION W/ACCESS DOORS BOTH SIDES
  - ⑧ RETURN AIR PLENUM SECTION (24" DEEP)
  - ⑨ FLEXIBLE CONNECTION
  - ⑩ RETURN AIR DUCTWORK. SEE DWGS.
  - ⑪ SUPPLY AIR DUCTWORK. SEE DWGS.
  - ⑫ DUCTWORK TRANSITION
  - ⑬ DUCT SMOKE DETECTOR
  - ⑭ DOUBLE THICKNESS TURNING VANES
  - ⑮ NEOPRENE VIBRATION ISOLATORS AND 4" I-BEAMS PAD
  - ⑯ 4" CONCRETE PAD
  - ⑰ MECH. ROOM FLOOR
  - ⑱ 18"x18" ACCESS DOOR
  - ⑲ 1" CONDENSATE DRAIN TO FLOOR DRAIN W/4" P-TRAP
  - ⑳ PROVIDE AUXILIARY SHEET METAL DRAIN PAN WITH FLOAT MICRO-SWITCH. SWITCH SHALL SHUT UNIT OFF IF WATER IS DETECTED.

**AIR HANDLER DETAIL**  
NO SCALE TYP. HP-1, HP-2, AC-1 AND AC-2

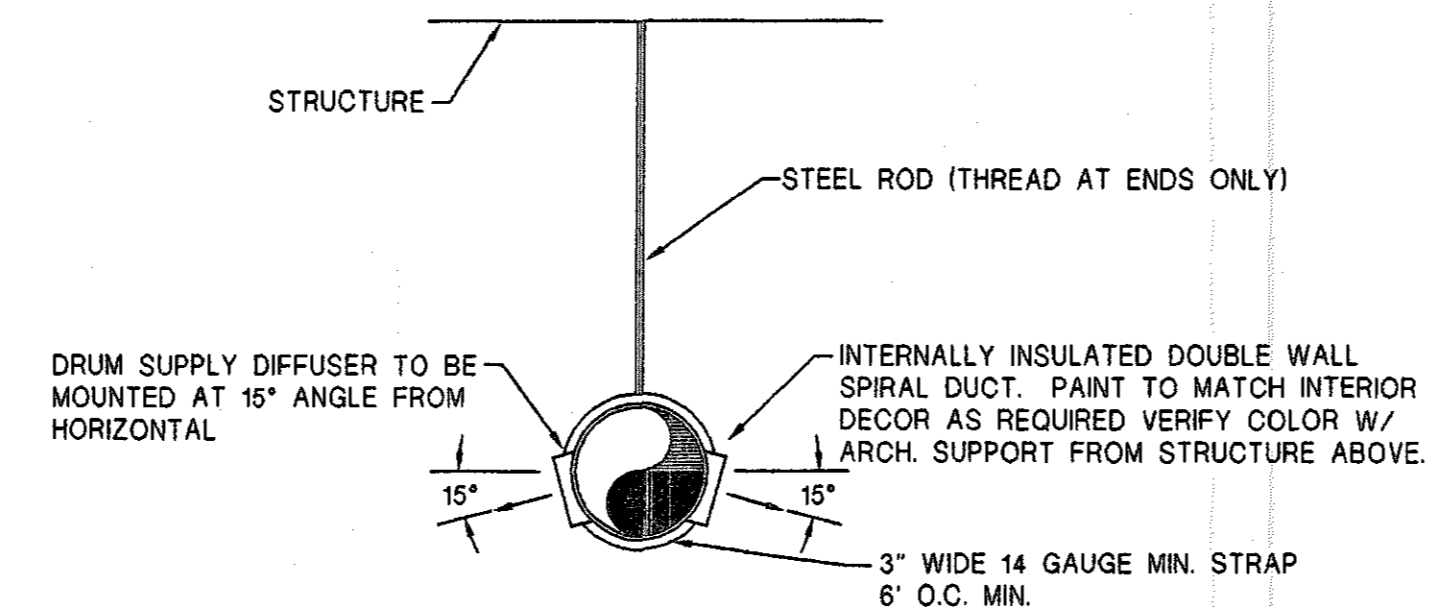


**FLOOR MOUNTED EQUIPMENT CONCRETE BASE DETAIL**  
NO SCALE

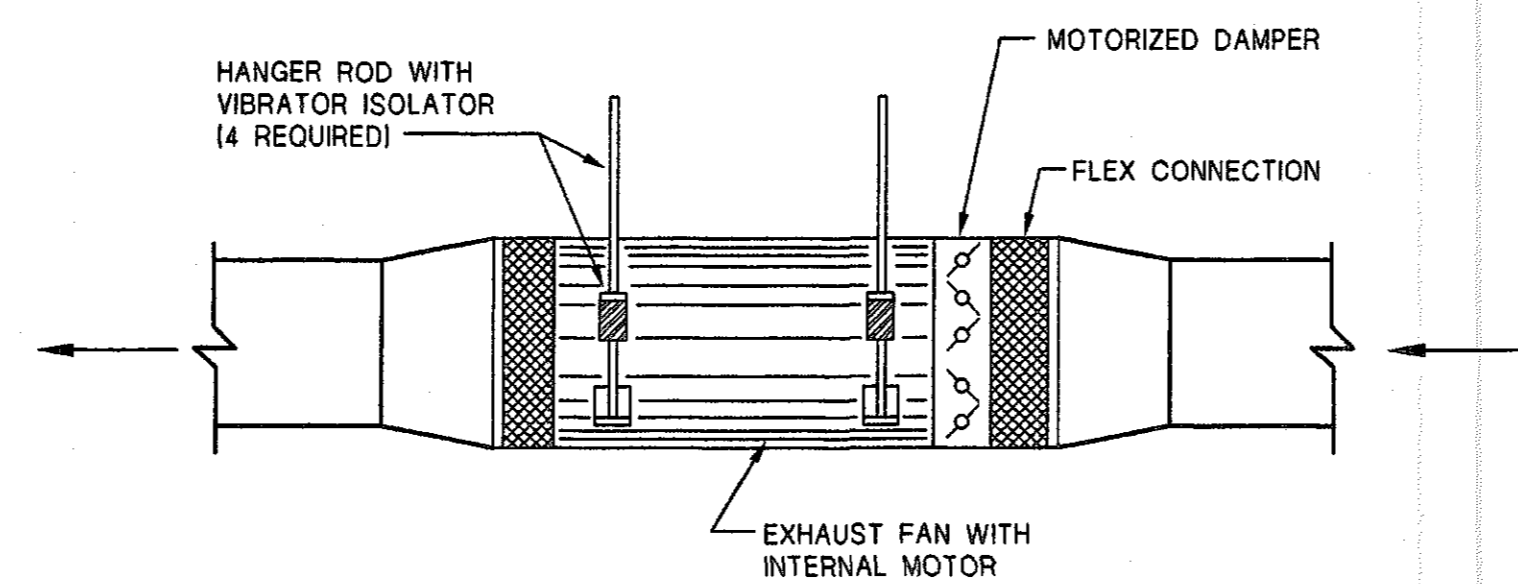


**EVAPORATOR COILS ABOVE COMPRESSOR**  
NO SCALE

NOTE:  
TWO CIRCUIT EVAPORATOR SHOWN. UNITS WITH TWO COMPRESSORS SHALL HAVE TWO COMPLETE INDEPENDENT REFRIGERANT CIRCUITS.

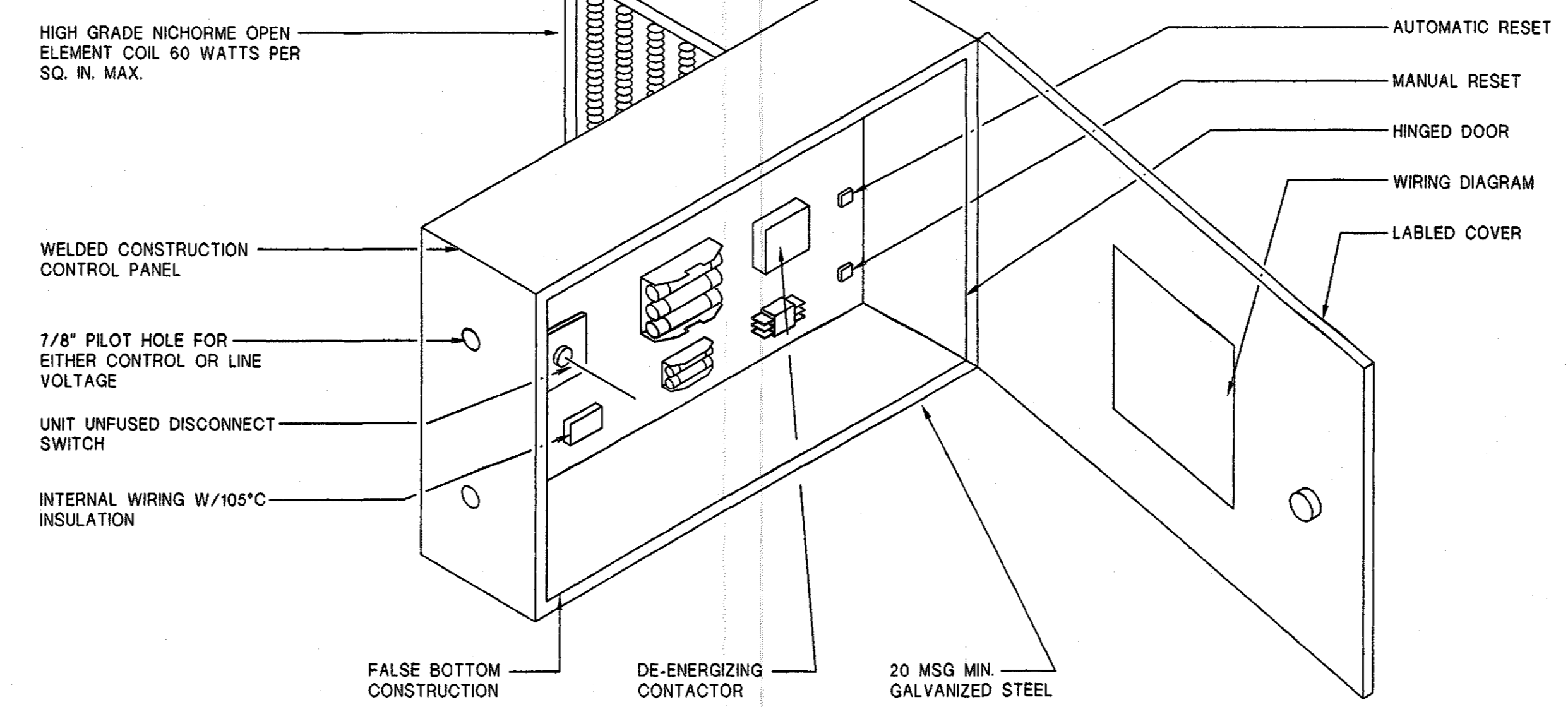


**SPIRAL SECTION**  
NO SCALE

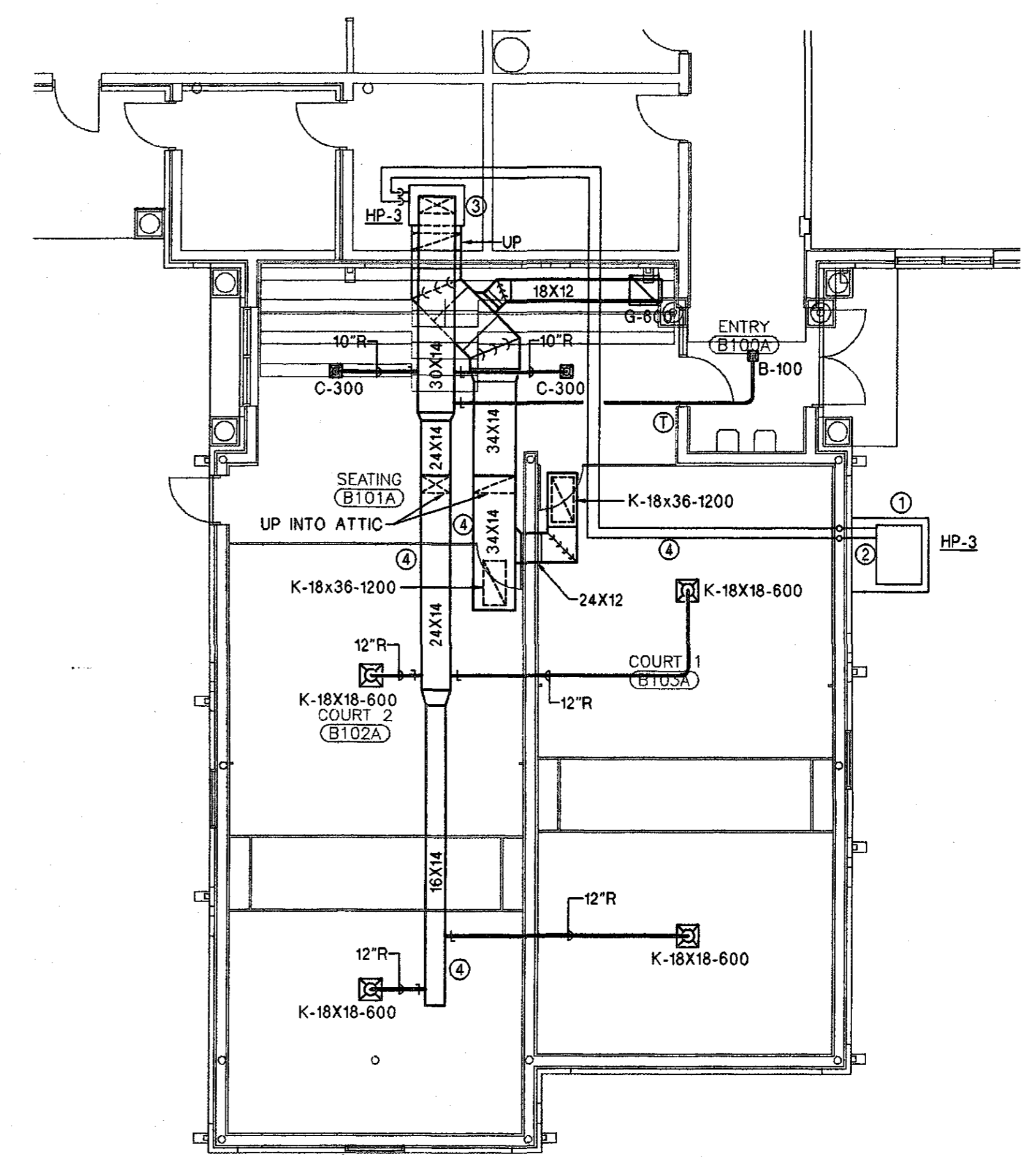


**INLINE EXHAUST FAN DETAIL**  
NO SCALE

- NOTE:
1. SUSPEND EXHAUST FAN HIGH AS POSSIBLE FROM STRUCTURE ABOVE
  2. MOTOR MAY BE INTERNALLY MOUNTED

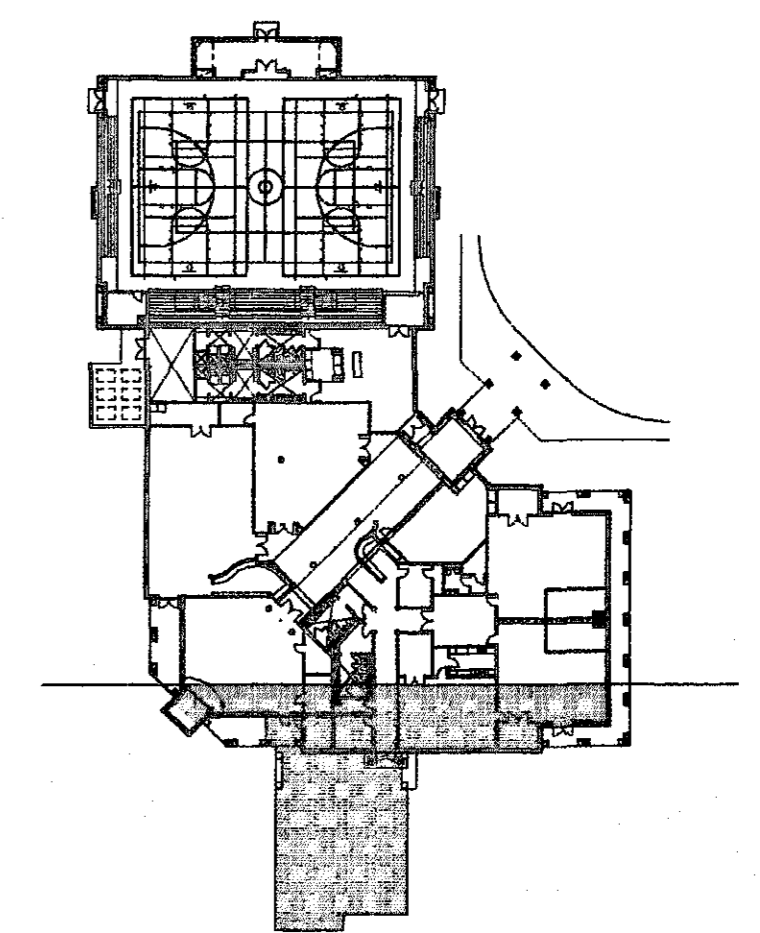


**ELECTRIC DUCT HEATER DETAIL**  
NO SCALE



**MECHANICAL ALTERNATE FLOOR PLAN (PART-B) BID ITEM NO. 2**  
SCALE: 1/8"=1'-0"

- NOTE LEGEND: (THIS SHEET ONLY)
- ① 4" THICK LEVEL CONCRETE PAD W/TURN DOWN EDGE BY G.C.
  - ② REFRIGERANT LINES & CONTROL WIRING FROM OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT. COVER EXTERIOR REFRIGERANT PIPING W/ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT.
  - ③ PROVIDE A COMPLETE OPERATING HEAT PUMP SYSTEM. INSTALL DUCT HIGH AND PROVIDE DUCT OFFSETS AS REQUIRED TO PROVIDE SERVICE TO EQUIPMENT.
  - ④ RUN DUCT IN ATTIC



**KEY PLAN**

PROGRESS PLOT NOT FOR CONSTRUCTION

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CAD NAME:

STATE OF ALABAMA  
MONTGOMERY  
REGISTERED ARCHITECT  
2923

JAMES H. MORRIS  
16984

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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

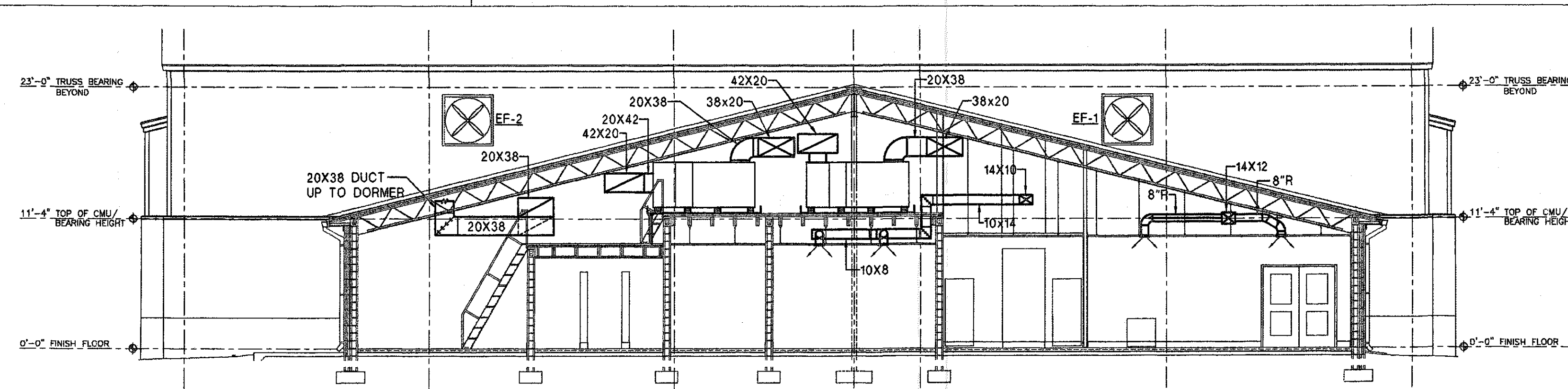
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MONTGOMERY  
REGISTERED ARCHITECT  
2923

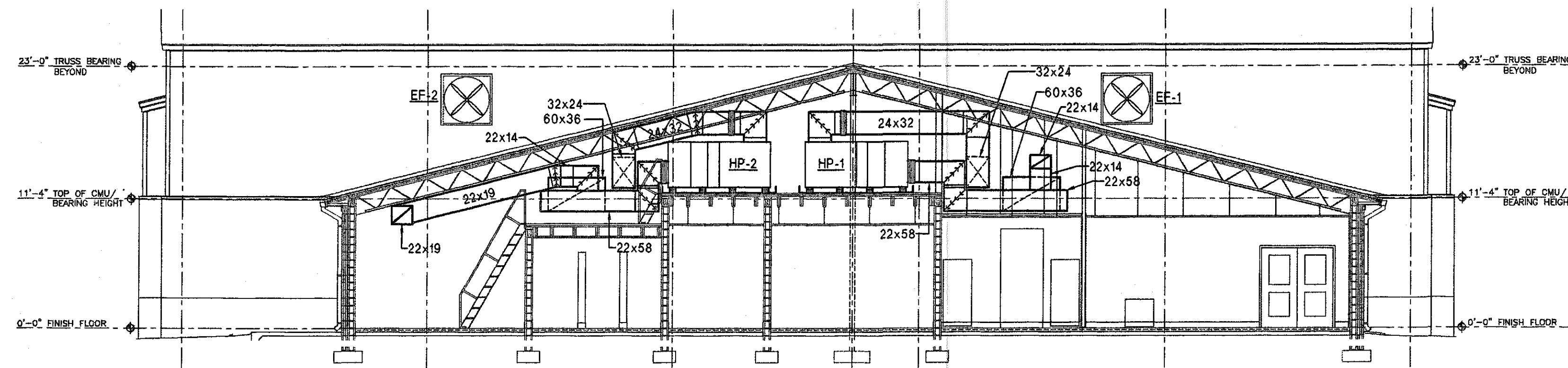
Issue	date
Design Development	08/14/01
FINAL	09/17/01

drawn by: MRW  
**MECHANICAL FLOOR PLAN-ALT #1 (PART-B)**

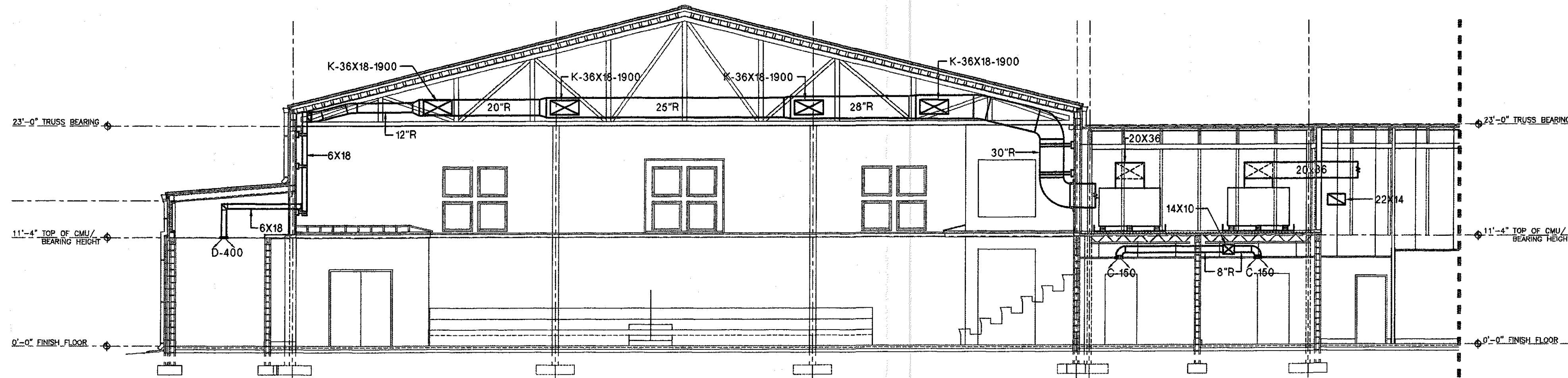
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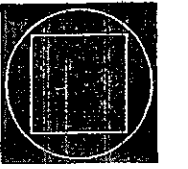
**BUILDING SECTION "A-A"**  
SCALE: 1/4"=1'-0"



**BUILDING SECTION "B-B"**  
SCALE: 1/4"=1'-0"



**BUILDING SECTION "C-C"**  
SCALE: 1/4"=1'-0"



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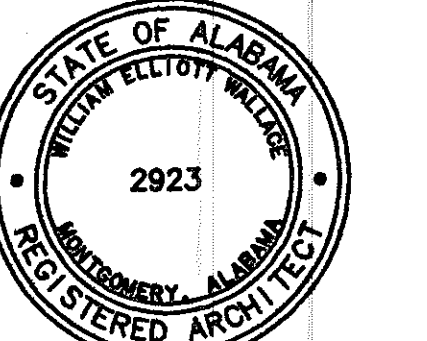
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A NEW  
RECREATION  
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FOR THE  
City of  
Orange  
Beach  
alabama

6-1-019



Issue date

Design Development 08/14/01

FINAL 09/17/01

drawn by: DRAWNBY

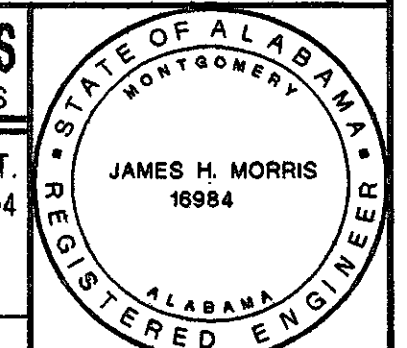
**MECHANICAL  
BUILDING  
SECTIONS**

PROGRESS PLOT NOT FOR CONSTRUCTION

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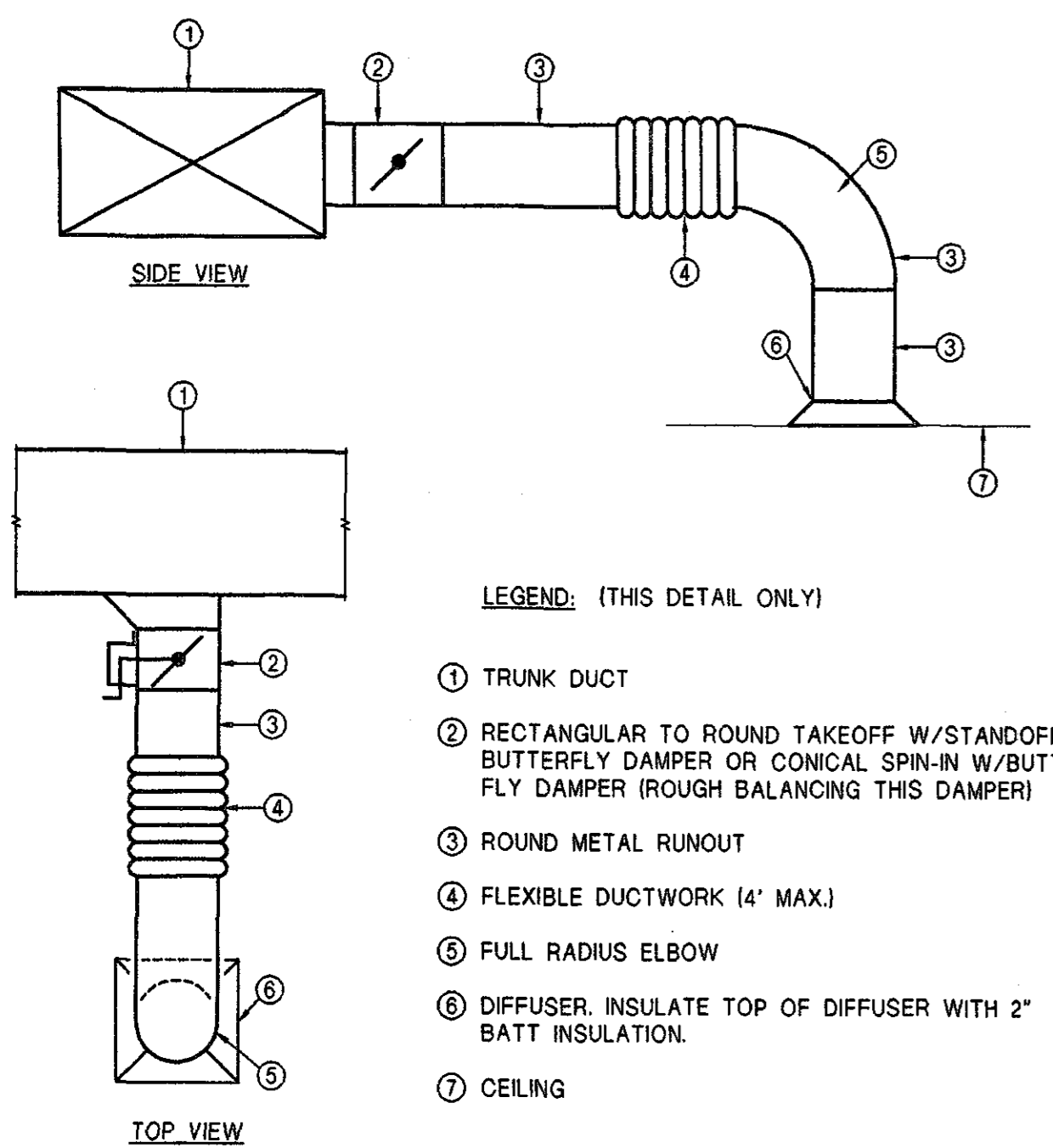
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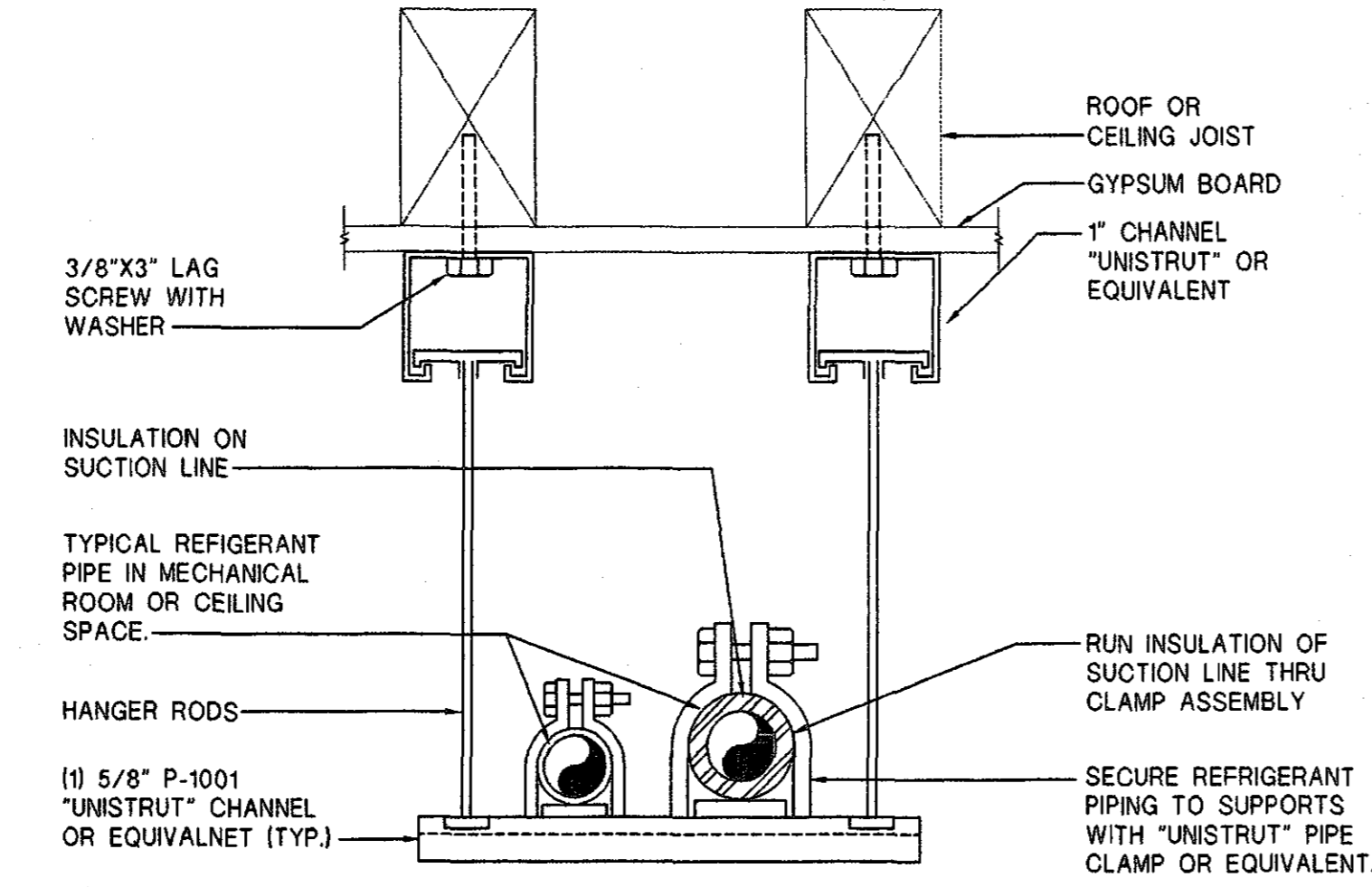
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**M2.1**  
sheet SEQNO of 00

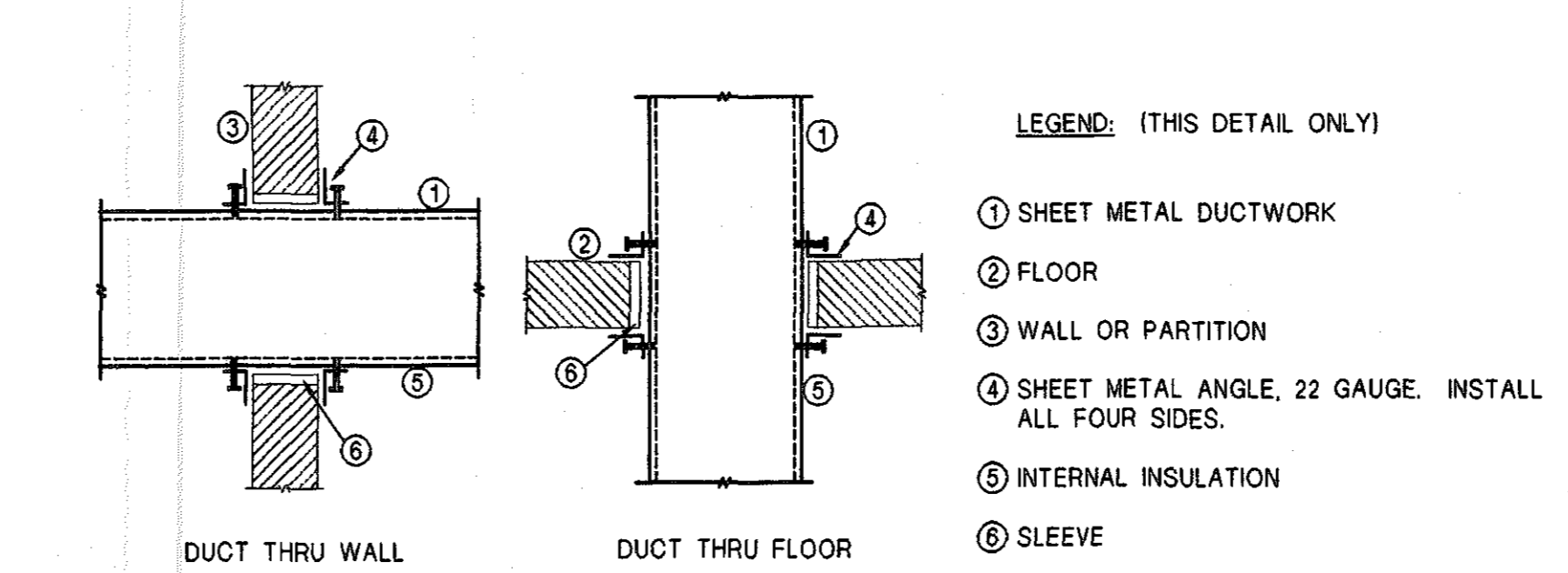




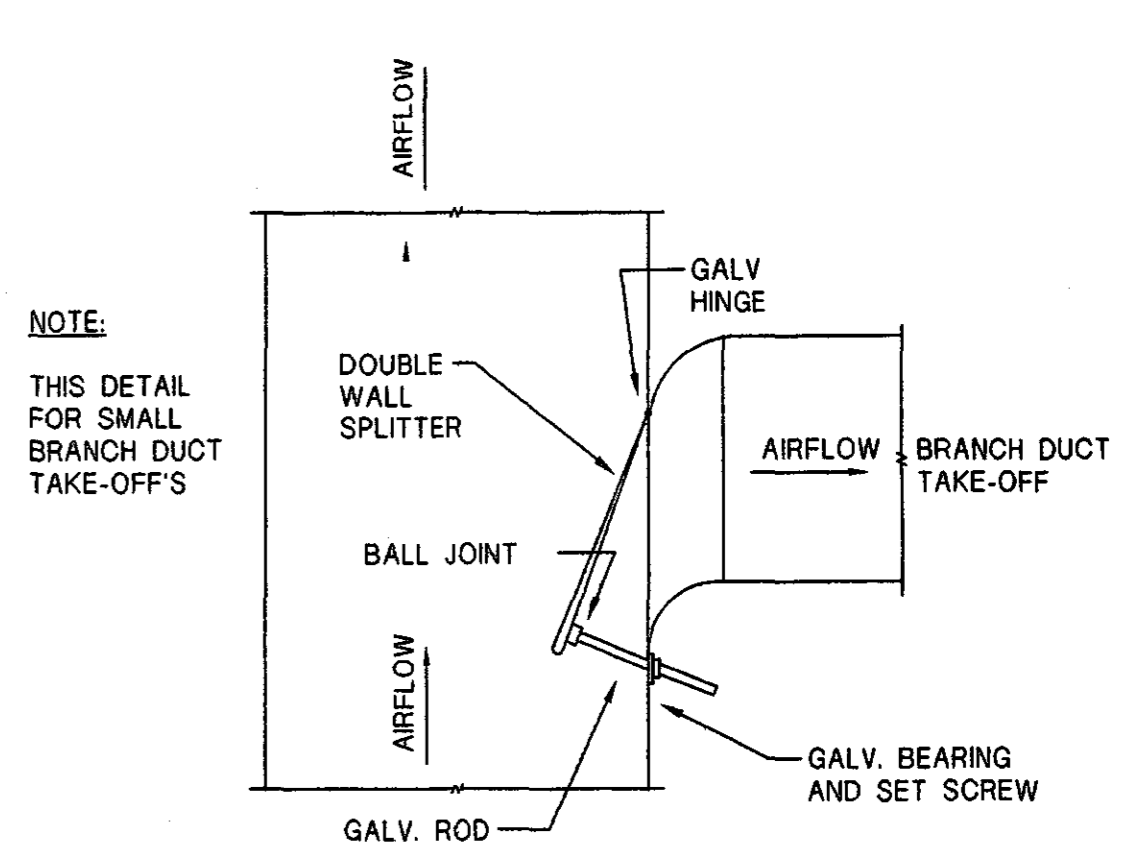
**DIFFUSER RUNOUT DETAIL**  
NO SCALE



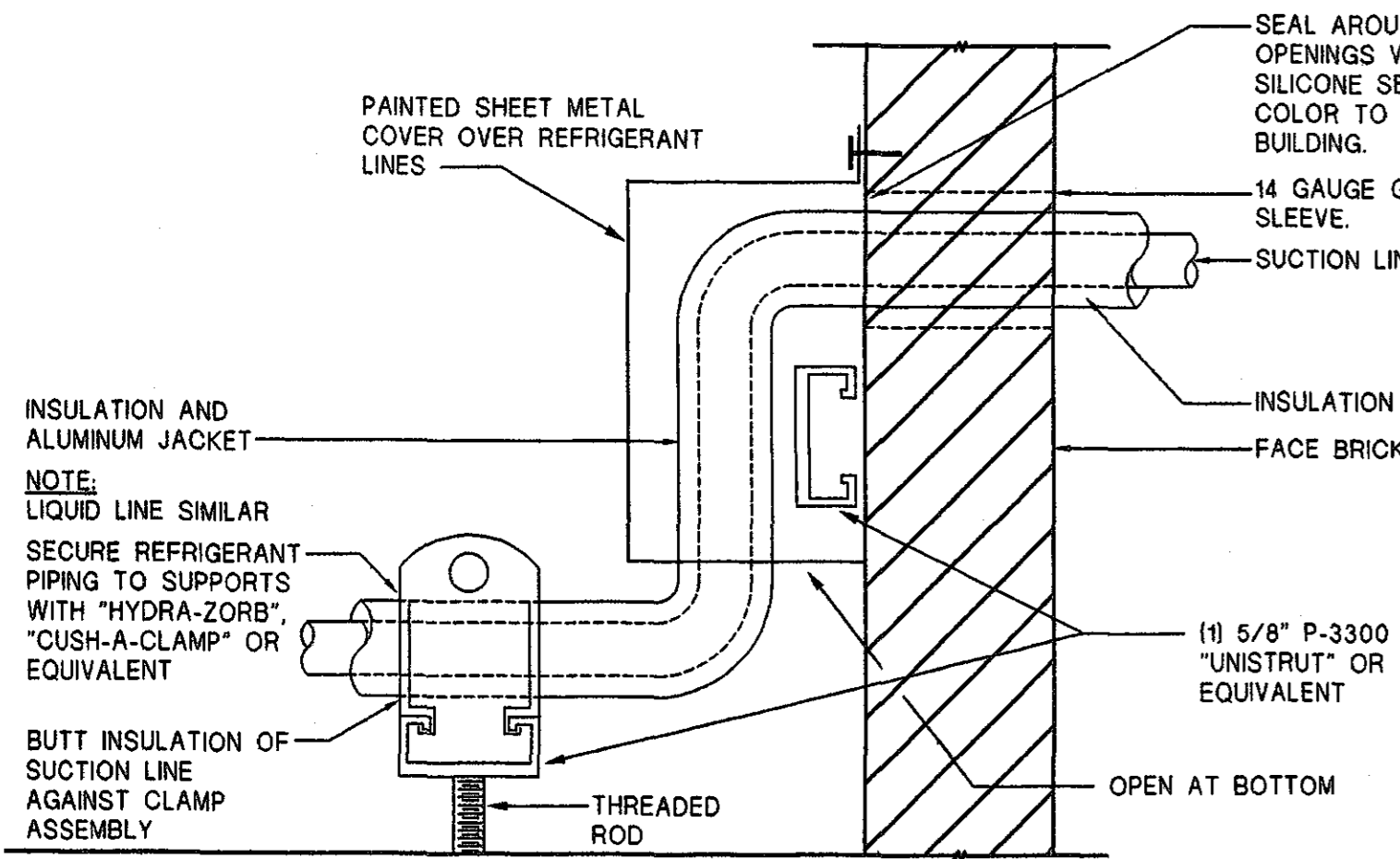
**SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING DETAIL**  
NO SCALE



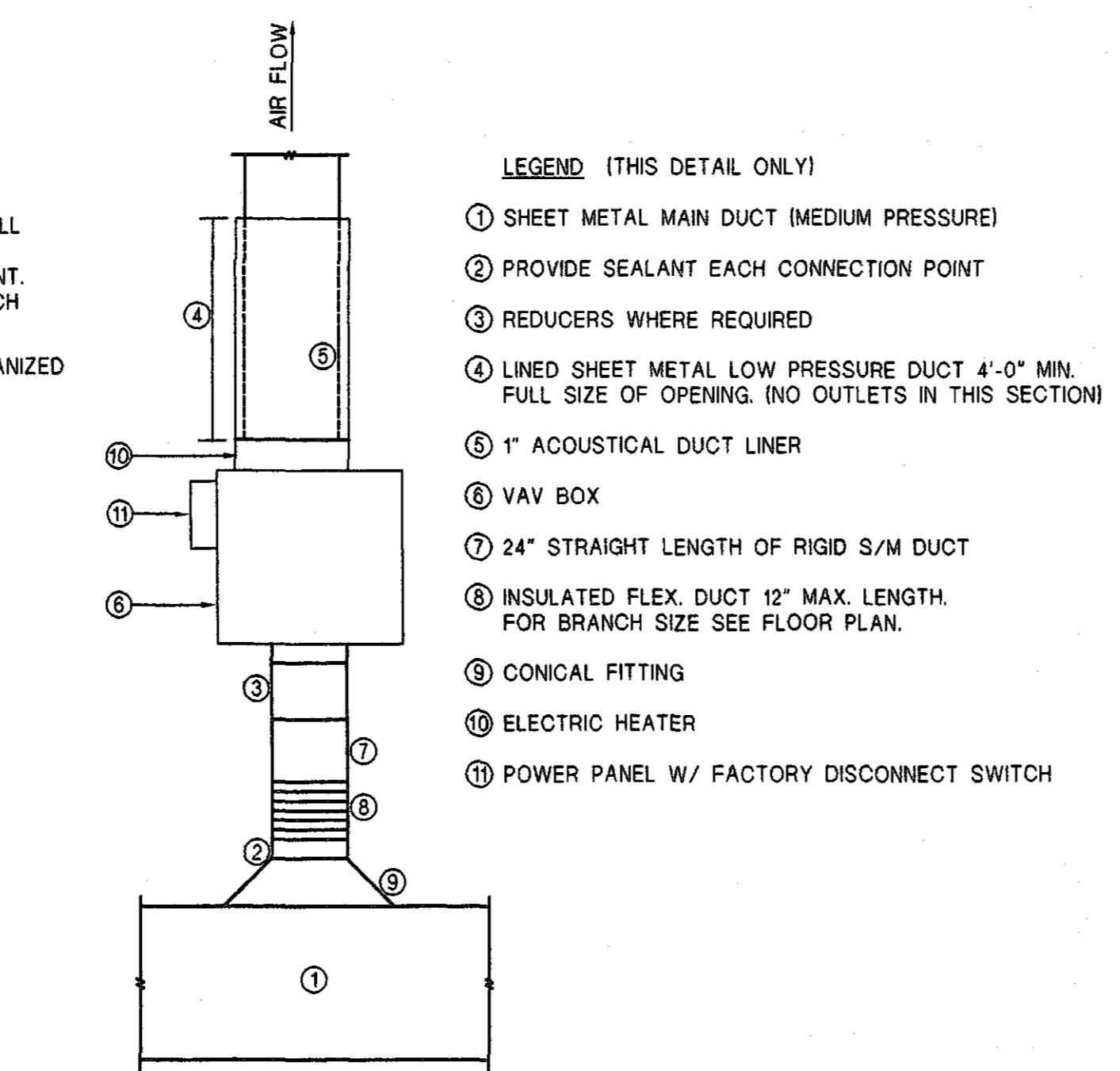
**DUCT THRU NON-RATED STRUCTURE DETAIL**  
NO SCALE



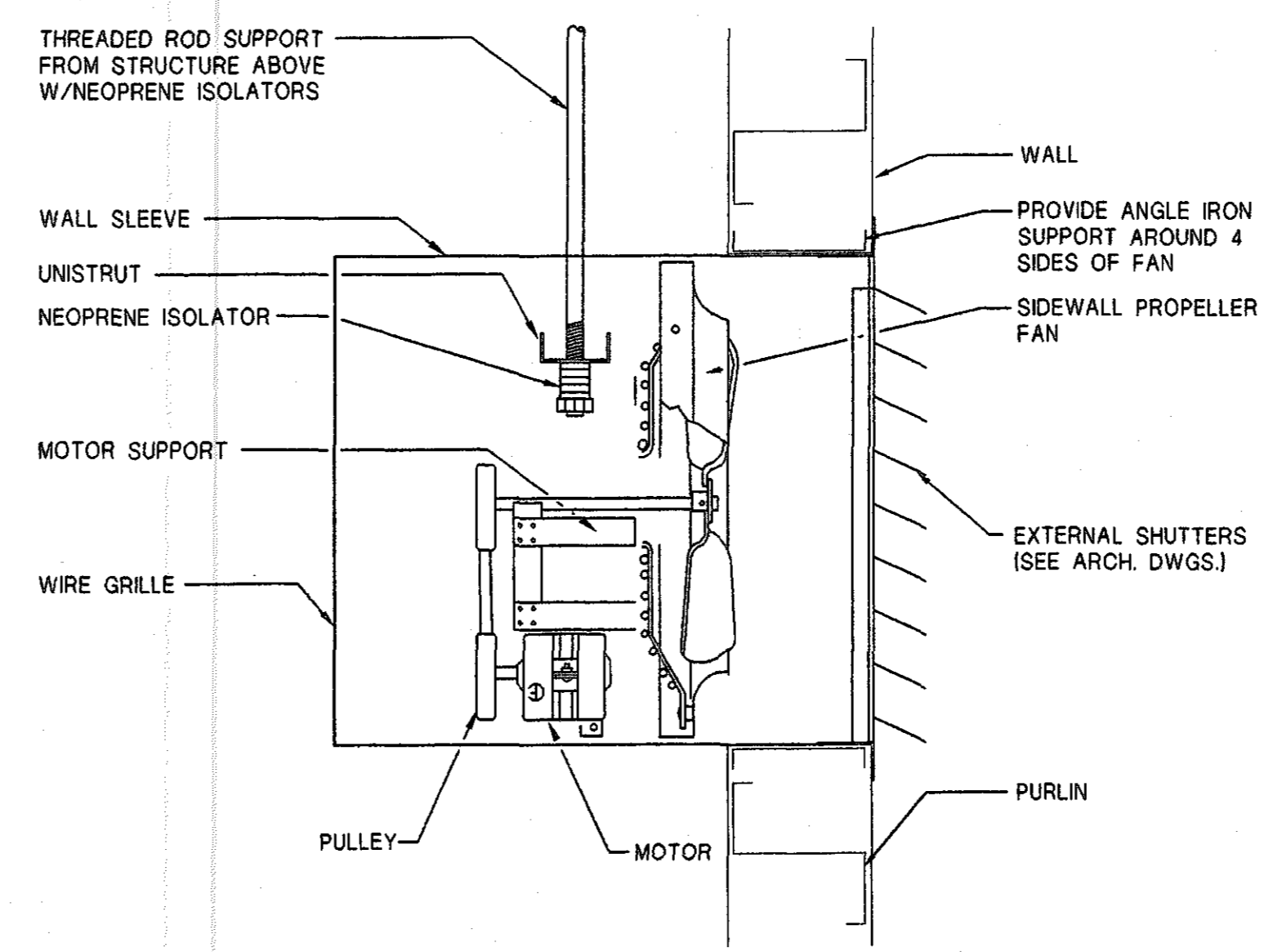
**SPLITTER DAMPER DETAIL**  
NO SCALE



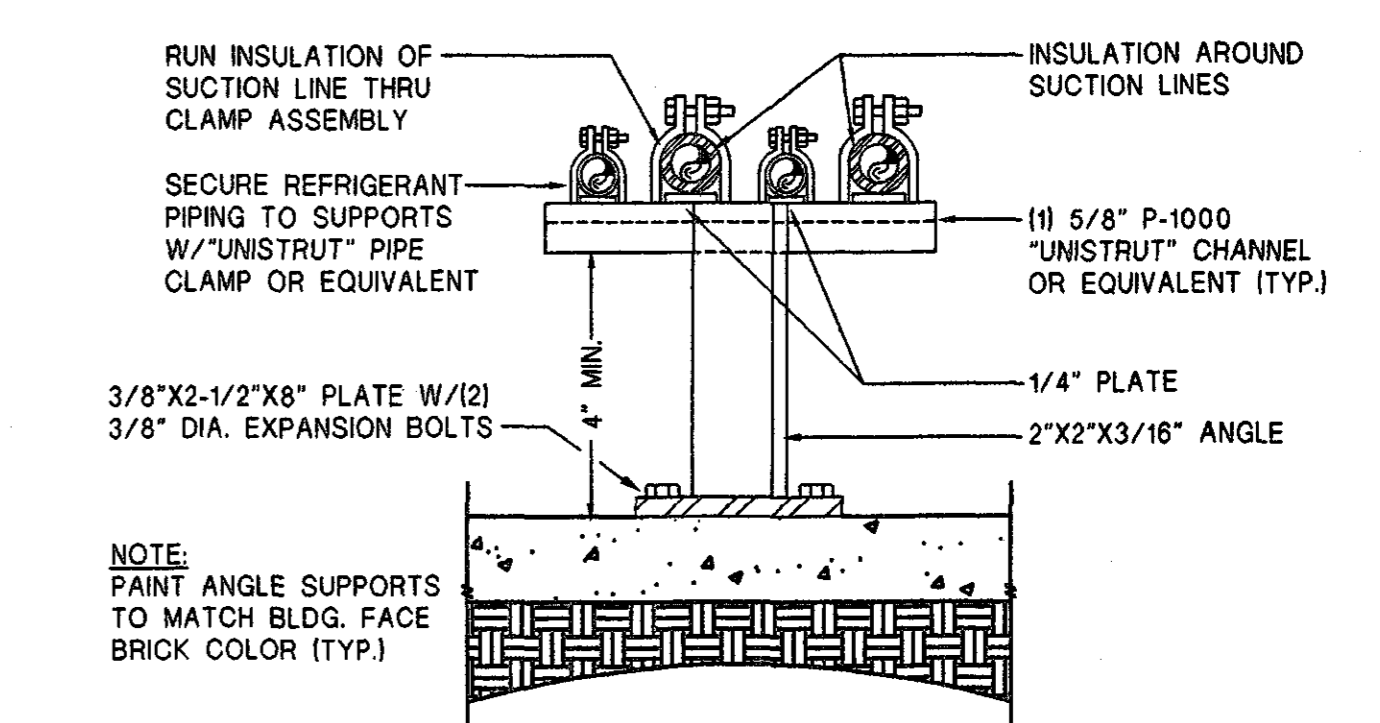
**REFRIGERANT PIPE SUPPORT AT WALL DETAIL**  
NO SCALE



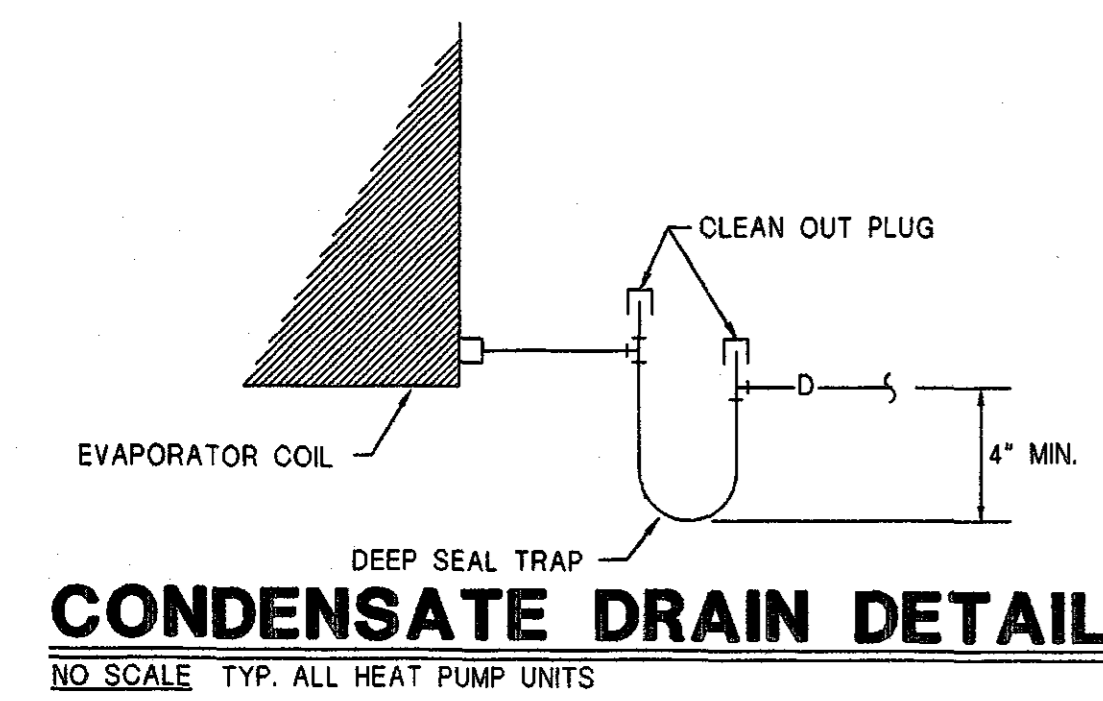
**VARIABLE AIR VOLUME UNIT DETAIL**  
NO SCALE



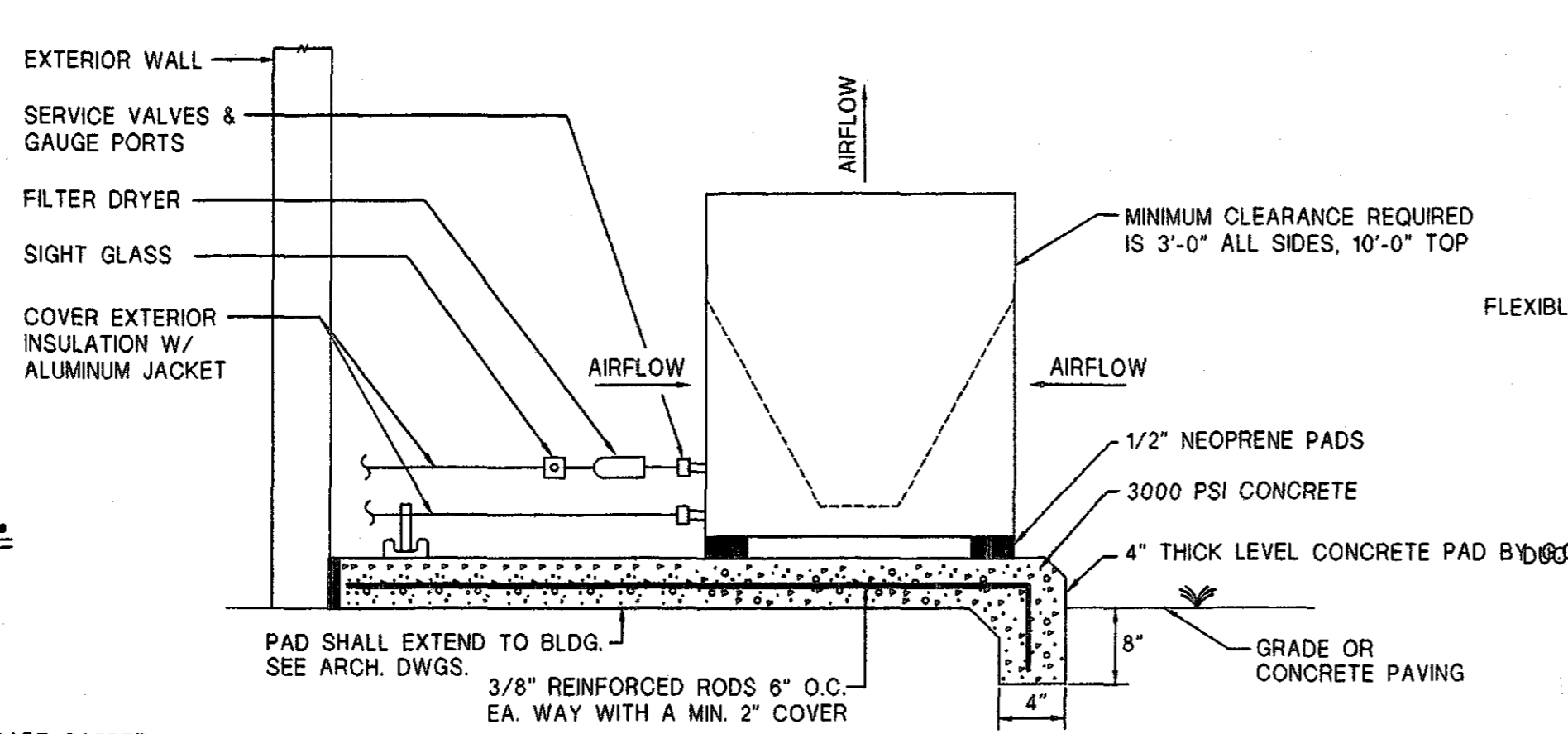
**WALL MOUNTED EXHAUST FAN DETAIL**  
NO SCALE EF-1 THRU EF-2



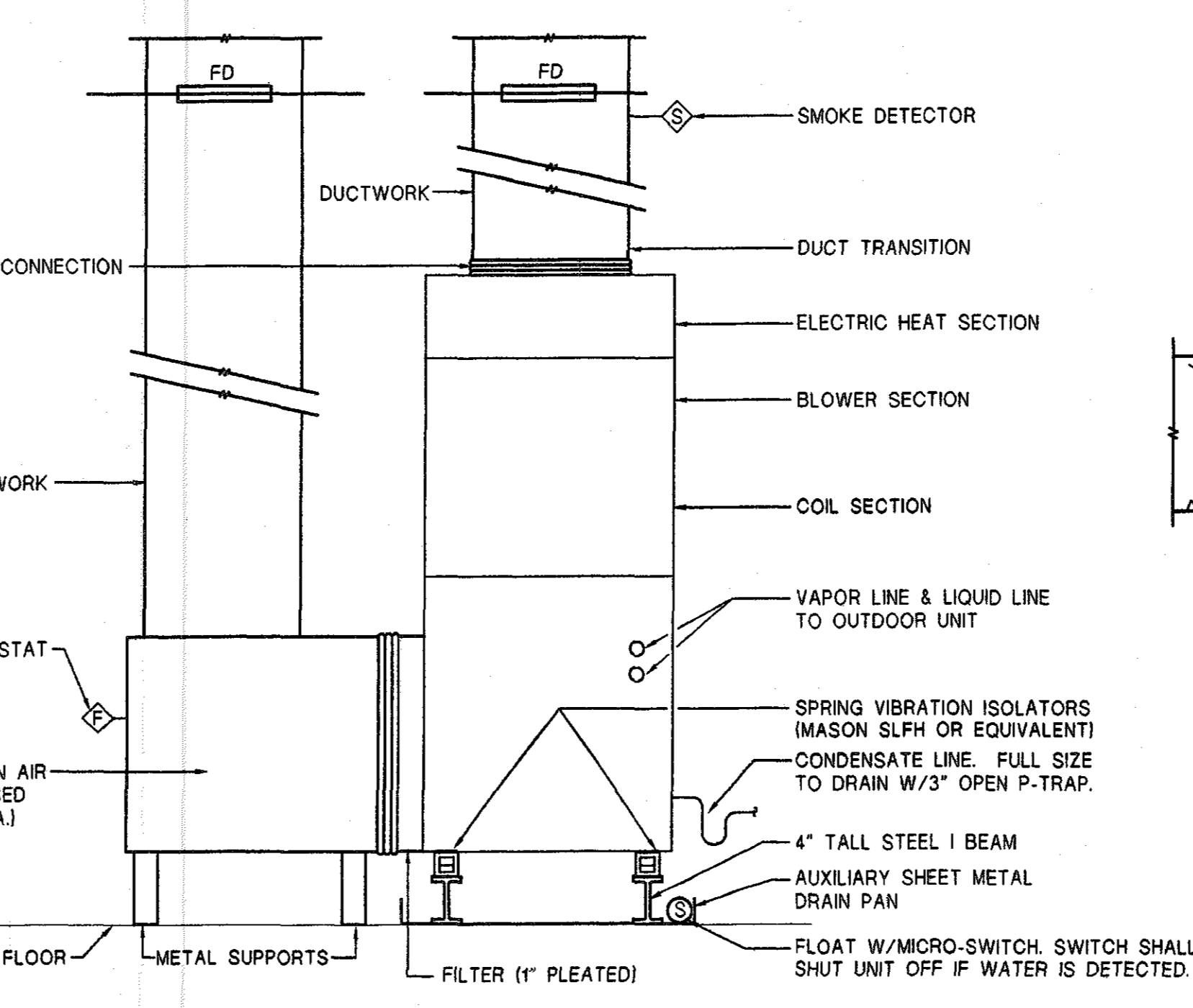
**EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL**  
NO SCALE  
NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER.



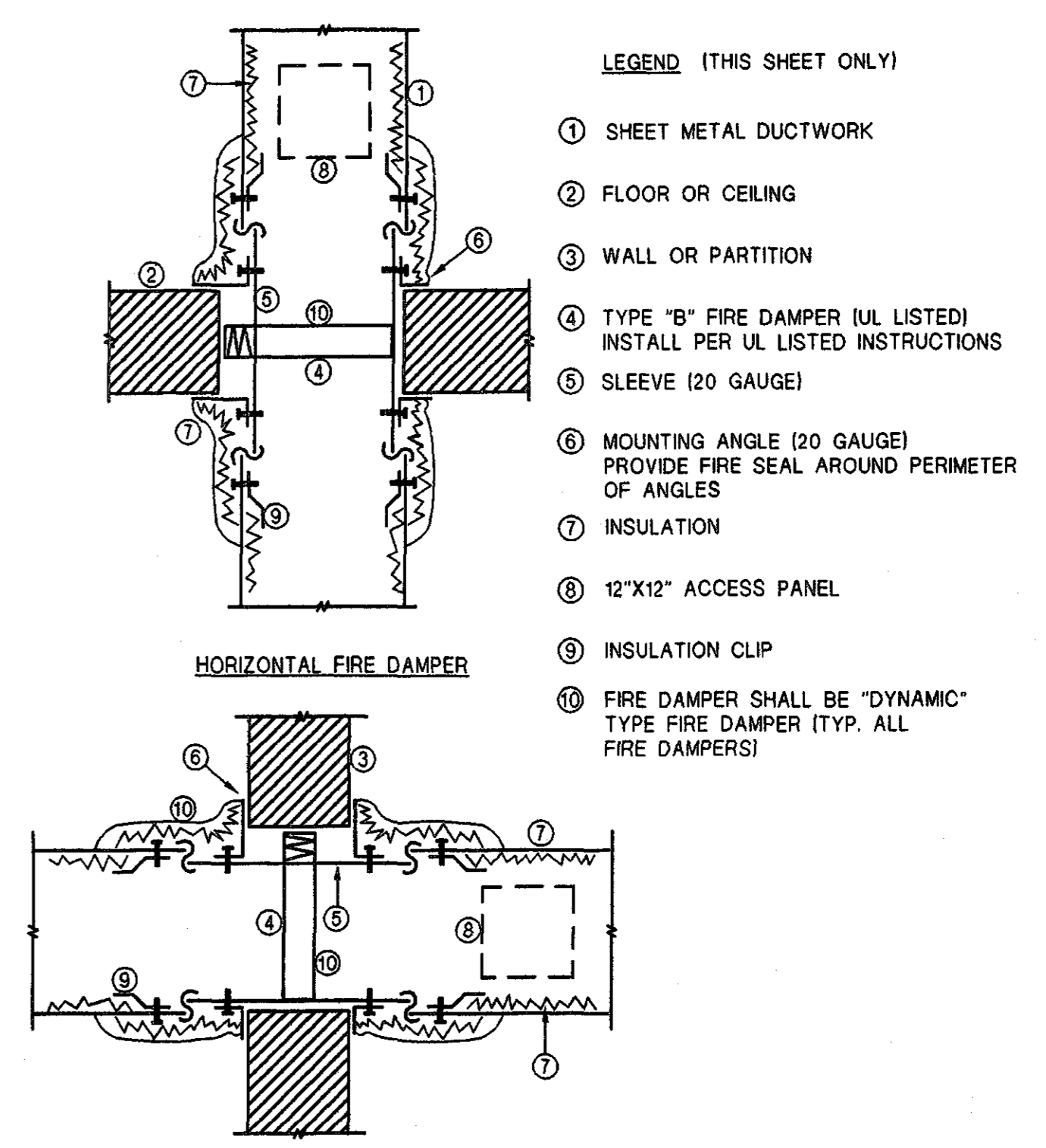
**CONDENSATE DRAIN DETAIL**  
NO SCALE TYP. ALL HEAT PUMP UNITS



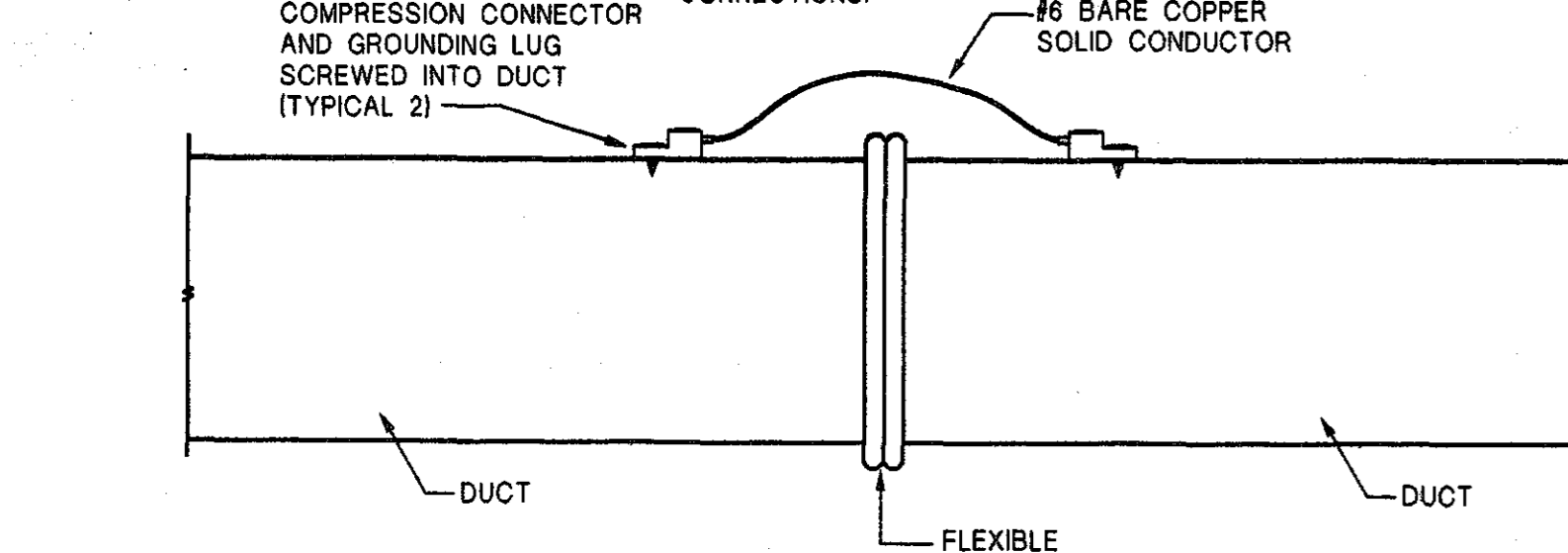
**OUTDOOR HEAT PUMP/ CONDENSING UNIT DETAIL**  
NO SCALE TYP. HP-1 & HP-2, ACCU-3 & ACCU-4



**INDOOR HEAT PUMP DETAIL**  
NO SCALE TYP. HP-3



**FIRE DAMPER DETAIL**  
NO SCALE



**FLEXIBLE CONNECTION GROUNDING STRAP DETAIL**  
NO SCALE

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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

**6-1-019**

STATE OF ALABAMA  
WILLIAM ELLIOTT WELLS  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue	date
Design Development	08/14/01
FINAL	09/17/01

drawn by: MFW  
**MECHANICAL DETAILS**

**NOT FOR CONSTRUCTION**

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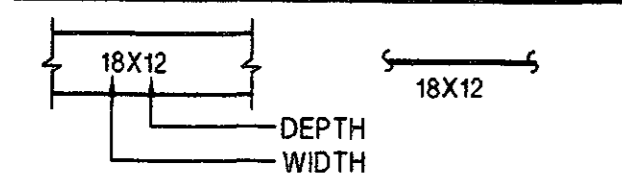
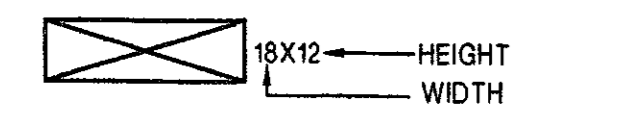
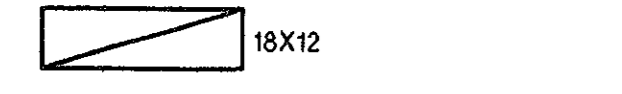

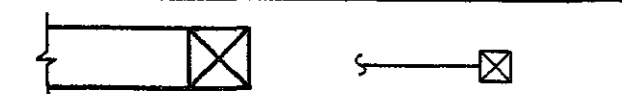
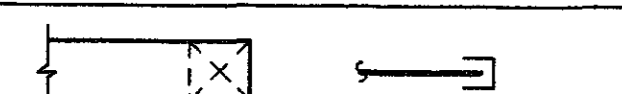
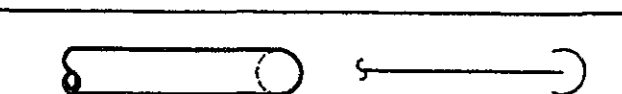
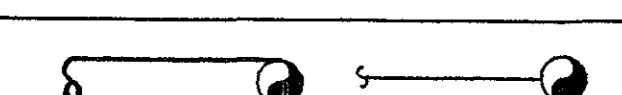




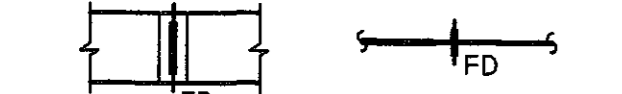
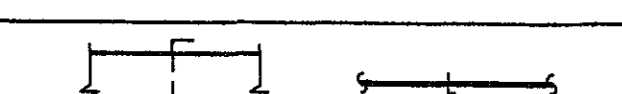
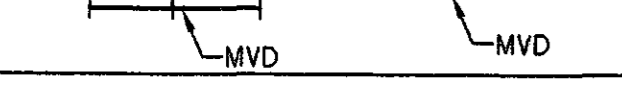
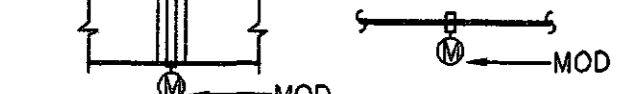
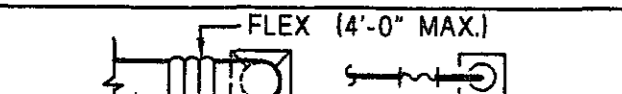
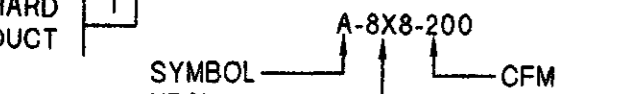
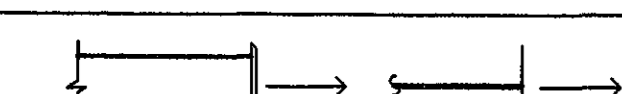
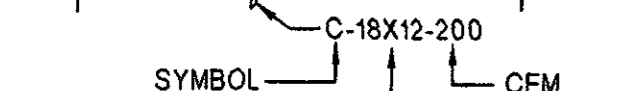
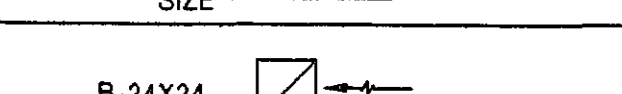
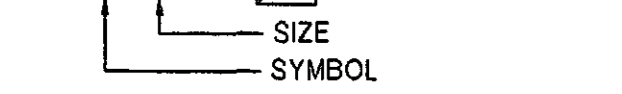

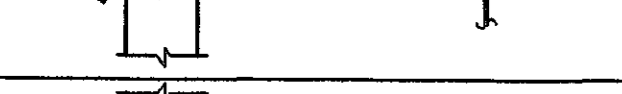
CAD NAME:

STATE OF ALABAMA  
JAMES H. MORRIS  
19984  
REGISTERED ENGINEER

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# MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK, DOUBLE LINE AND SINGLE LINE. DIMENSIONS ARE NET FREE AREA.
	SUPPLY DUCTWORK. DIMENSIONS ARE NET FREE AREA.
	RETURN OR EXHAUST DUCTWORK DIMENSIONS ARE NET FREE AREA.
	TRANSITION. 4:1 RATIO FOR LOW PRESSURE, 7:1 RATIO FOR HIGH PRESSURE.
	ELBOW TURNED UP WITH TURNING VANES
	ELBOW TURNED DOWN WITH TURNING VANES
	ROUND DUCT TURNED DOWN
	ROUND DUCT TURNED UP
	RADIUS TYPE ELBOW WITH TURNING VANES. INSIDE RADIUS = WIDTH.
	SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWORK ELBOWS UNLESS NOTED OTHERWISE.
	FIRE DAMPER (FD) OR SMOKE DAMPER (SD) ALL FD OR SD SHALL HAVE A 12X12 AP UNLESS NOTED OTHERWISE
	MANUAL VOLUME DAMPER (MVD)
	MOTOR OPERATED DAMPER (MOD) ALL MOD SHALL HAVE 12X12 AP UNLESS NOTED OTHERWISE
	DIFFUSER WITH HARD SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER
	WALL SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	SPLITTER DAMPER (SPD) WITH PUSH-PULL LOCKING ADJUSTMENT ROD
	SPLITTER DAMPER (SPD) WITH PUSH-PULL LOCKING ADJUSTMENT ROD
	RECTANGULAR TO ROUND OR CONICAL TAKEOFF AND DAMPER W/STANDOFF BRACKET
	DRAIN (CONDENSATE)
	PIPE TURNED DOWN
	PIPE TURNED UP
A.F.F.	ABOVE FINISHED FLOOR
G.C.	GENERAL CONTRACTOR
	ROOM TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR

## MECHANICAL GENERAL NOTES

- THESE DRAWINGS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF THE OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHT FIXTURES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR THEIR REVIEW AND/OR APPROVAL.
- ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ALL FAN MOTORS 1/8 HP AND ABOVE SHALL HAVE A DISCONNECT SWITCH MOUNTED AT THE FAN.
- MOUNT THERMOSTATS AND SWITCHES WHERE INDICATED ON PLANS, 48" AFF UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWING FOR LOCATIONS. WHERE THERE IS A CONFLICT OF LOCATIONS BETWEEN THE DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY.
- ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE DIFFUSER SERVED UNLESS NOTED OTHERWISE.
- PROVIDE INTERNAL INSULATION (1" THICK, 1.5 LB. DENSITY) FOR RECTANGULAR SUPPLY, OUTDOOR AIR, EXHAUST AIR AND RETURN DUCTS 20'-0" FROM AIR HANDLING UNITS. ALL TRANSFER DUCTS SHALL BE 1" THICK INTERNALLY INSULATED. ALL OTHER SUPPLY, RETURN, EXHAUST AND OUTDOOR AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK, FOIL BACKED 3/4 LB DENSITY BLANKET INSULATION UNLESS NOTED OTHERWISE.
- INSTALL AN IONIZATION TYPE SMOKE DETECTOR IN THE SUPPLY AIR DUCT OF EACH AIR HANDLING UNIT & SUPPLY FAN.
- CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. ALL CONDENSATE LINES SHALL BE INSULATED.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR, ADJUST FOR LINER, ETC.
- IN ADDITION TO OFFSETS IN DUCTWORK SHOWN, PROVIDE OFFSETS REQUIRED TO MAINTAIN TOP OF DUCT AND PIPE TIGHT TO STRUCTURE.
- DUCTS AND EQUIPMENT WITH STANDING BRACES SHALL BE ARRANGED SO THAT THE BRACES WILL NOT BE OVER LIGHTS OR UNDER BEAMS IN AREAS WHERE THE CLEARANCE BETWEEN LIGHTS, AND BEAMS IS LIMITED.
- EACH CEILING OR WALL DIFFUSER INDICATED SHALL HAVE A RECTANGULAR TO ROUND TAKEOFF W/STANDOFF BRACKET AND MANUAL VOLUME CONTROL DAMPER AT THE SHEET METAL TRUNK DUCT SUCH THAT AIR BALANCING OF THE SYSTEM CAN BE ACCOMPLISHED.
- DUCTWORK SHALL BE IN ACCORDANCE WITH SMACNA STANDARD. SEAL ALL JOINTS WITH HARD-CAST.
- VERIFY EXACT LOCATION OF CONTROLS AND THERMOSTATS WITH ARCHITECT BEFORE WIRING AND INSTALLATION.
- ALL WALL SUPPLY AND RETURN AIR GRILLES SHALL BE CENTERED SYMMETRICALLY.
- COORDINATE LOCATION OF ALL DRAINS REQUIRED FOR MECHANICAL EQUIPMENT WITH PLUMBING CONTRACTOR TO INSURE PROPER LOCATION FOR SERVICE TO EQUIPMENT.
- THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ALL WALL, FLOOR, AND ROOF OPENINGS (DIMENSIONS AND LOCATIONS). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN THE STRUCTURE.

## AIR HANDLING UNIT SCHEDULE

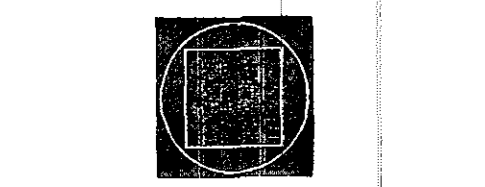
SYMBOL	DESCRIPTION	SUPPLY AIR CFM		OUTSIDE AIR CFM		EXT. S.P. (INCHES H2O)	ELECTRICAL				COOLING COIL				BASIS OF DESIGN	REMARKS			
		MAX.	MIN.	MAX.	MIN.		HP	V	PH	HZ	MAX. FACE VELOCITY (FPM)	TOTAL COOLING CAP. (MBH)	EAT				LAT		
													*F DB	*F WB			*F DB	*F WB	
AC-1	VARIABLE AIR VOLUME	9000	2250	1500	---	3.0	10	208	3	60	500	300	80	67	55	54	.5	TRANE HORIZONTAL CLIMATE CHANGER	1,2,3,4
AC-2	VARIABLE AIR VOLUME	9000	2250	1500	---	3.0	10	208	3	60	500	300	80	67	55	54	.5	TRANE HORIZONTAL CLIMATE CHANGER	1,2,3,4

- COOLING COIL SHALL HAVE 6 ROWS (MIN).
- PROVIDE INVERTER DUTY MOTOR & VARIABLE FREQUENCY DRIVE.
- PROVIDE 30% EFFICIENT, 2" PLEATED FILTER (500 FPM MAX. VELOCITY).
- UNIT SHALL BE BELT DRIVE W/ADJ. SHEAVES. PROVIDE BACKWARD INCLINE FAN.

## VARIABLE AIR VOLUME UNIT SCHEDULE

SYMBOL	PRIMARY AIR DATA				ELEC. STRIP HEAT					ELEC.	REMARKS
	CFM MAX.	CFM MIN.	MAX. PD IN. WG	VALVE SIZE	EAT DB	LAT DB	KW	STEPS	MAX. WATER PD H2O		
VAV1-1	1500	375	.25	14"	55	80	10	3	.25	208/3/60	1,2,3,4,5
VAV1-2	1900	475	.25	14"	55	80	12	3	.25	208/3/60	1,2,3,4,5
VAV1-3	1900	475	.25	14"	55	80	12	3	.25	208/3/60	1,2,3,4,5
VAV1-4	900	225	.25	10"	55	80	6	3	.25	208/3/60	1,2,3,4,5
VAV1-5	825	206	.25	10"	55	80	5	3	.25	208/3/60	1,2,3,4,5
VAV1-6	950	238	.25	10"	55	80	6	3	.25	208/3/60	1,2,3,4,5
VAV1-7	600	150	.25	8"	55	80	6	3	.25	208/3/60	1,2,3,4,5
VAV2-1	1250	313	.25	12"	55	80	8	3	.25	208/3/60	1,2,3,4,5
VAV2-2	1300	325	.25	12"	55	80	10	3	.25	208/3/60	1,2,3,4,5
VAV2-3	1600	400	.25	12"	55	80	10	3	.25	208/3/60	1,2,3,4,5
VAV2-4	1500	375	.25	12"	55	80	10	3	.25	208/3/60	1,2,3,4,5
VAV2-5	1475	369	.25	12"	55	80	10	3	.25	208/3/60	1,2,3,4,5
VAV2-6	1275	319	.25	12"	55	80	8	3	.25	208/3/60	1,2,3,4,5
VAV2-7	900	225	.25	8"	55	80	8	3	.25	208/3/60	1,2,3,4,5
VAV2-8	800	150	.25	8"	55	80	4	3	.25	208/3/60	1,2,3,4,5

- BASED ON TITUS PRESSURE INDEPENDENT VAV BOX MODEL DESV.
- PROVIDE DDC ROOM THERMOSTAT, FACTORY MOUNTED CONTROLS, FACTORY MOUNTED DISCONNECT SWITCH, & SINGLE POINT POWER CONNECTION.
- BOX SHALL BE SELECTED FOR MAX 36NC IN OCCUPIED SPACE (ARI 885-90).
- BOX SHALL BE ARI CERTIFIED (ARI-880).
- 6", 8", & 10" UNITS SHALL HAVE 14" TOTAL HEIGHT (MAX).



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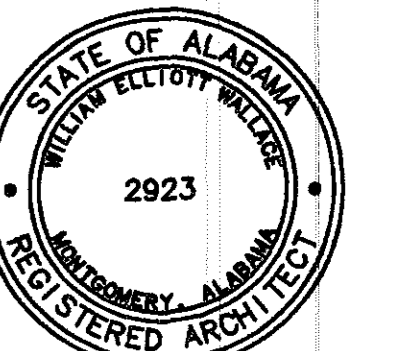
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RECREATION  
COMPLEX

FOR THE

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Issue date

Design Development: 08/14/01

FINAL: 09/17/01

drawn by: DRAWNBY

**MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES**

95% SUBMITTAL

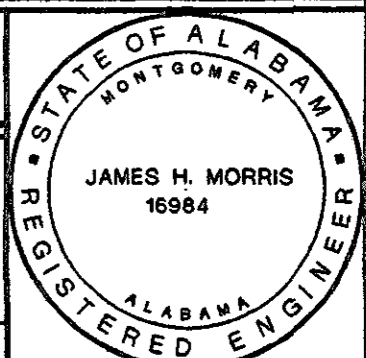
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CAD NAME: 0155-M5



## AIR COOLED CONDENSING UNIT SCHEDULE

SYMBOL	COOLING MIN.(1)		UNIT ELEC.	SOUND RATING (BELS)	REMARKS
	TOTAL MBH	EER/SEER			
ACCU-1	300	9.0	208/3/60	8.8	3.4
ACCU-2	300	9.0	208/3/60	8.8	3.4

- (1) CAPACITY BASED ON EDB 80 DEGREES F., EWB 67 DEGREES F. & AMBIENT 95 DEGREES F.
- (2) RATED IN ACCORDANCE W/ARI STANDARD 210-81.
- CONDENSING UNIT BASED ON TRANE TTA.
- UNIT SHALL HAVE DUAL COMPRESSORS W/ (2) INDEPENDENT REFRIGERANT CIRCUITS. PROVIDE LOW AMBIENT HEAD PRESSURE CONTROL TO 10" F (MIN.), HOT GAS BYPASS FOR CAPACITY MODULATION, TIME DELAY, ANTI-SHORT CYCLE TIMER & CONDENSER COIL GUARD.

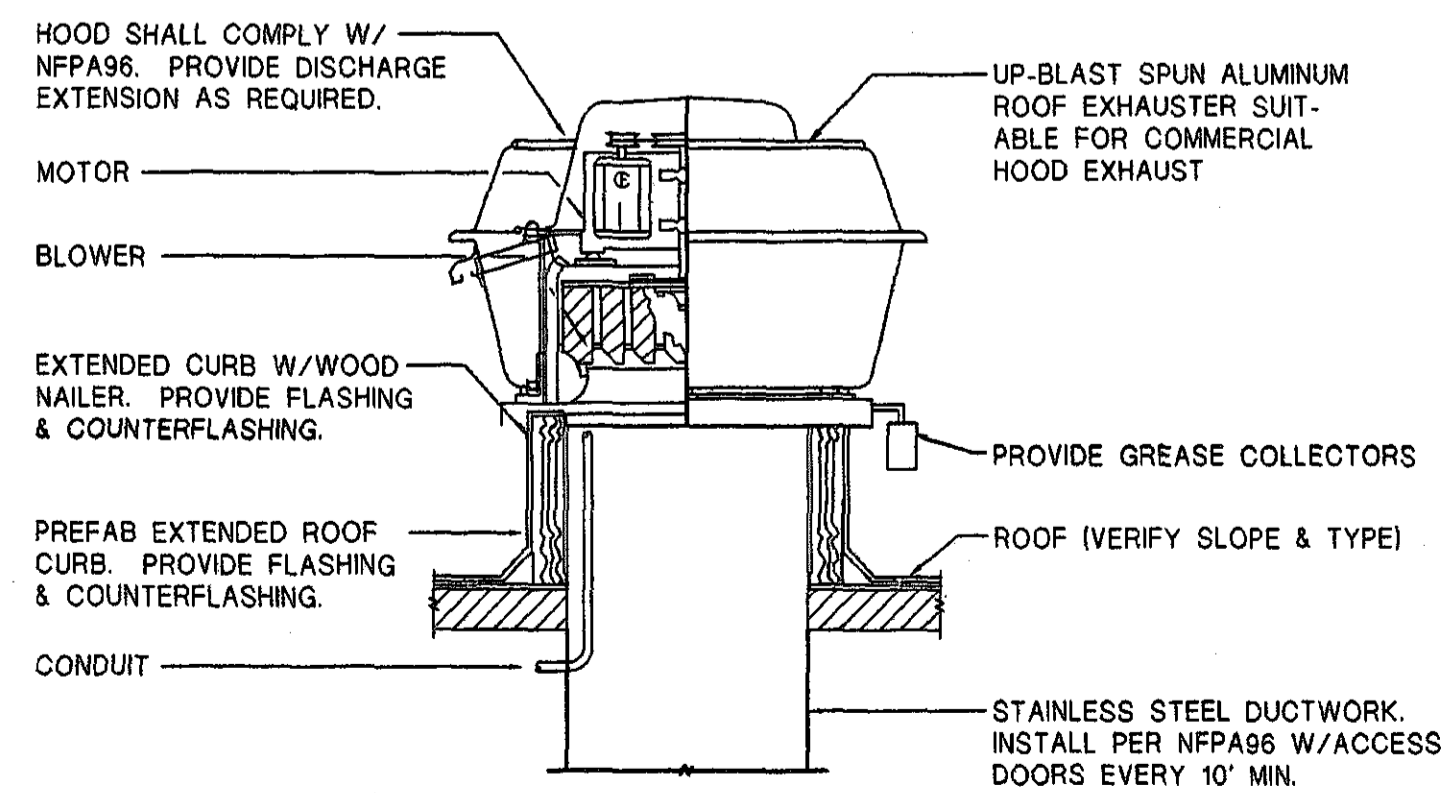
## SPLIT SYSTEM HEAT PUMP SCHEDULE

SYMBOL	EVAP FAN				COOLING MIN. (1)			HEATING MIN.				OUTDOOR ELEC.	MAX. ARI SOUND RATING (BELS)	REMARKS
	TOTAL CFM	O.A. CFM	EXT.SP. °H2O	HP	TOTAL MBH	SEN MBH (3)	SEER (3)	TOTAL MBH (2)	COOP (2)	ELEC. KW	ELEC.			
HP-1	8000	1500	1.0	5	240	168	9.0	240	3.0	37	208/3/60	208/3/60	8.0	5,6,7,8,10,11,12
HP-2	8000	1500	1.0	5	240	168	9.0	240	3.0	37	208/3/60	208/3/60	8.0	5,6,7,8,10,11,12
HP-3	3000	150	1.0	1.5	90	63	9.0	88	3.0	18	208/3/60	208/3/60	8.0	4,5,6,7,8,10,11

- (1) CAPACITY BASED ON EDB 80 DEGREES F., EWB 67 DEGREES F. & AMBIENT 95 DEGREES F.
- (2) CAPACITY BASED ON EDB 70 DEGREES F., AMBIENT DB 47 DEGREES F., AMBIENT RH 70
- (3) RATED IN ACCORDANCE W/ARI STANDARD 210-81.
- INDOOR UNIT BASED ON TRANE TWE.
- OUTDOOR UNIT BASED ON TRANE TWA.
- FILTER SECTION W/2" PLEATED FILTER. E-Z FILTER BASE MFG. INC. MODEL E-Z OR EQUIVALENT.
- INDOOR THERMOSTAT W/METAL LOCKBOX.
- ONE STEP COOLING & TWO STEP HEATING.
- DELETED.
- INDOOR UNIT SHALL BE BELT DRIVE.
- PROVIDE SINGLE POINT POWER CONNECTION FOR INDOOR UNIT. ALL WIRING, TRANSFORMERS, ETC. SHALL BE FACTORY INSTALLED.
- INDOOR UNIT BASED ON TRANE HORIZONTAL CLIMATE CHANGER.

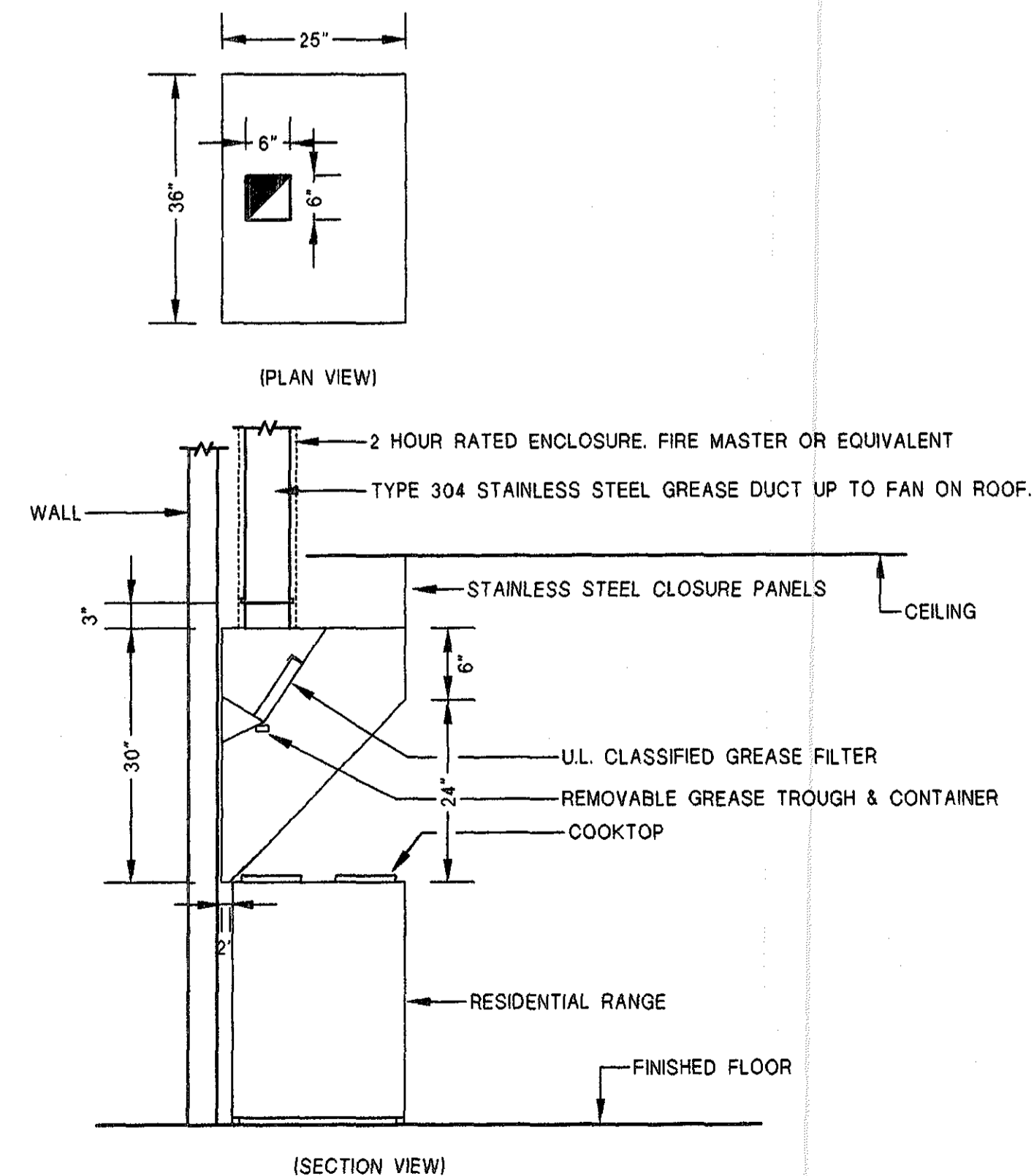
## MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
KH-1	PROVIDE (1) ONE 3'-0" WIDE BY 25" DEEP KITCHEN HOOD, GREASE MASTER MODEL GLA BACKSHELF STYLE HOOD OR APPROVED EQUIVALENT BY GREENHECK OR SUN-AIR. CANOPY SHALL BE FABRICATED IN ACCORDANCE WITH NFPA-96. BEAR NSF SEAL AND BE U.L. LISTED. PROVIDE 304 18 GAUGE STEEL FOR ALL EXPOSED INTERIOR AND EXTERIOR SURFACES, 18 GAUGE STEEL ON EXPOSED SURFACES, DOUBLE THICKNESS PANELS, EXHAUST COLLARS, U.L. LISTED GREASE FILTERS, AND FLUSH MOUNTED CONTROL PANEL. PROVIDE STAINLESS STEEL CLOSURE PANELS TO CEILING SECURED WITH STAINLESS STEEL SCREWS AND ALL OTHER CLOSURE PANELS AS REQUIRED, ALL FILLER PANELS AND TRIM, FIELD START UP, CHECK-OUT, ANDS CERTIFICATION BY FACTORY PERSONNEL, AND PRE-PIPED (ANSUL R-102) FIRE SUPPRESSION SYSTEM WITH GAS VALVES, AND ALL REQUIRED COMPONENTS TO MAKE A COMPLETE INSTALLATION INTEGRAL WITH SYSTEM (VERIFY LOCATION OF AGENT TANKS AND PULL STATIONS) AND CERTIFIED BY A FACTORY APPROVED AGENT. ANSUL R-102 PULL STATION(S) SHALL BE FLUSH MOUNTED. PROVIDE PRESSURE TEST. PROVIDE FAN SWITCH ON HOOD.



### RANGE HOOD EXHAUST FAN DETAIL

NO SCALE TYP. EF-8



### KITCHEN HOOD DETAIL

NO SCALE TYP. KH-1

## EXHAUST FAN SCHEDULE

SYMBOL	CFM	EXT. SP. °H2O	MAX. RPM	SONES	WHEEL DIA.	POWER	ELEC.	REMARKS
EF-1	12000	.25	1075	16.3	48"	3/4HP	120/1/60	1
EF-2	12000	.25	1110	16.3	48"	3/4HP	120/1/60	1
EF-3	300	.25	1000	4.2	--	1/20HP	120/1/60	2
EF-4	325	.25	1000	5.8	--	1/12HP	120/1/60	2
EF-5	325	.25	1000	5.8	--	1/12HP	120/1/60	2
EF-6	200	.25	1000	1.6	--	1/12HP	120/1/60	2
EF-7	200	.5	1000	1.6	--	1/12HP	120/1/60	2
EF-8	450	.5	1455	10	9.5	1/4 HP	120/1/60	3
EF-9	80	.5	-	-	-	-	120/1/60	2
EF-10	310	.5	-	-	-	-	120/1/60	2
EF-11	310	.5	-	-	-	-	120/1/60	2
EF-12	125	.5	-	-	-	-	120/1/60	2

- COMPLETE SIDEWALL PROPELLER PACKAGE INCLUDING PROPELLER FAN, MOTORIZED SHUTTER W/BAKED ENAMEL FINISH (VERIFY COLOR W/ARCH), WALL MOUNT COLLAR, OSHA, FAN GUARDS, MOUNTING ACCESS, VARIABLE SPEED CONTROL, DISCONNECT SWITCH. BASED ON COOK MODEL SPB. ENTIRE UNIT & SHUTTER SHALL HAVE FACTORY DARK BRONZE BAKED ENAMEL FINISH. VERIFY COLOR W/ARCH. VERIFY EXACT MOUNTING HEIGHT W/ARCH.
- BASED ON COOK MODEL IN-LINE GEMINI. PROVIDE VARIABLE SPEED MOTOR CONTROLLER, BACKDRAFT DAMPER AND AMCA SEAL. SEE DETAIL.
- COOK MODEL VCR OR APPROVED EQUIVALENT. PROVIDE UPBLAST CENTRIFUGAL EXHAUSTER, BELT DRIVE FAN, ADJUSTABLE SHEAVES, FACTORY MOUNTED DISCONNECT SWITCH, GREASE TRAP, HINGING KIT, BIRDSCREEN, STARTER, HEAT BAFFLE, VENTED CURB EXTENSION AS REQUIRED FOR COMPLIANCE WITH NFPA-96. PRE-FAB ROOFCURB. AMCA CERTIFICATION, U.L. (762) LISTING, AND COMPLIANCE WITH NFPA-96.

## AIR DISTRIBUTION SCHEDULE

SYMBOL	MAX NC	MAX VEL	MODEL	DESCRIPTION	REMARKS
A	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (8"X6" UNLESS NOTED OTHERWISE)	1,2,3,4,5,7
B	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (8"X8" UNLESS NOTED OTHERWISE)	1,2,3,4,5,8
C	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (10"X10" UNLESS NOTED OTHERWISE)	1,2,3,4,5,9
D	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (12"X12" UNLESS NOTED OTHERWISE)	1,2,3,4,5,10
E	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (14"X14" UNLESS NOTED OTHERWISE)	1,2,3,4,5,11
F	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGCRATE GRILLE (24"X12" UNLESS NOTED OTHERWISE)	1,2,4,15
G	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGCRATE GRILLE (24"X24" UNLESS NOTED OTHERWISE)	1,2,3,4,15
H	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGCRATE GRILLE (12"X12" UNLESS NOTED OTHERWISE)	1,2,3,4,5,10
I	25	500	TITUS 300RS	SIDEWALL SUPPLY REGISTER	1,2,4,5,13
J	25	500	TITUS 33RL	HEAVY DUTY RETURN REGISTER	1,2,4,5,8
K	25	500	TITUS SG-FLO	12 GA. STEEL CLG. REGISTER WITH 1/4" DIA. HOLES ON 3/8" STAGGERED CENTERS	1,2,4,5,10

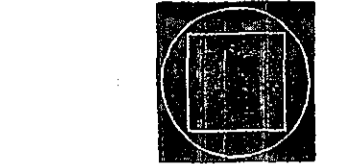
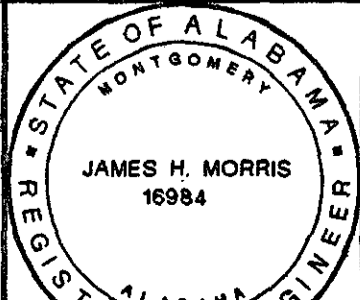
- OFF-WHITE FINISH. VERIFY W/ARCH. BEFORE ORDERING.
- REFER TO ARCHITECTURAL DWGS. FOR EXACT LOCATION.
- EXTEND 24"X24" PANEL IN LAY-IN CEILING. SURFACE MTD. IN GYP. BOARD CEILING.
- OPPOSED BLADE DAMPER W/EXTERNAL ADJUSTMENT.
- TRANSITION ADAPTER AS REQUIRED ROUND TO REC. OR REC. TO REC. OR ROUND TO ROUND.
- FRONT BLADES SHALL BE PARALLEL W/FLOOR.
- PROVIDE 6" RUNOUT (UNLESS NOTED OTHERWISE).
- PROVIDE 8" RUNOUT (UNLESS NOTED OTHERWISE).
- PROVIDE 10" RUNOUT (UNLESS NOTED OTHERWISE).
- PROVIDE 12" RUNOUT (UNLESS NOTED OTHERWISE).
- PROVIDE 14" RUNOUT (UNLESS NOTED OTHERWISE).
- DELETED.
- FRONT BLADES SHALL BE PERPENDICULAR TO FLOOR.
- DELETED.
- G.C. SHALL PROVIDE EXTRA T-BAR IN CEILING FOR LAY-IN INSTALLATION.
- DELETED.

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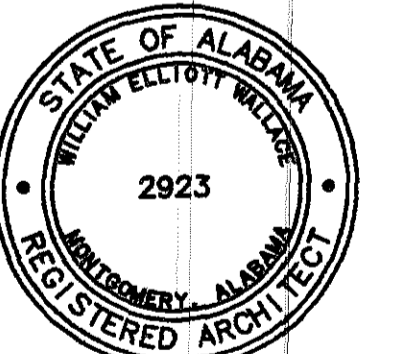
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A NEW RECREATION COMPLEX FOR THE

City of Orange Beach, Alabama

6-1-019



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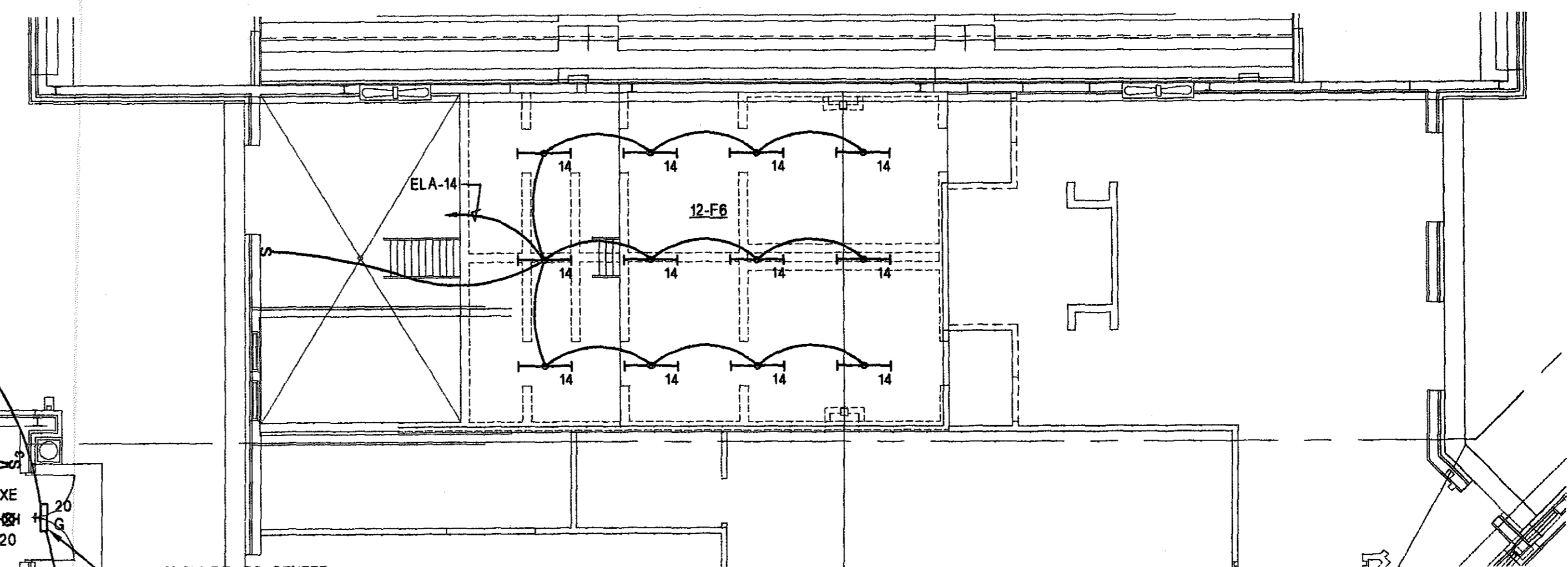
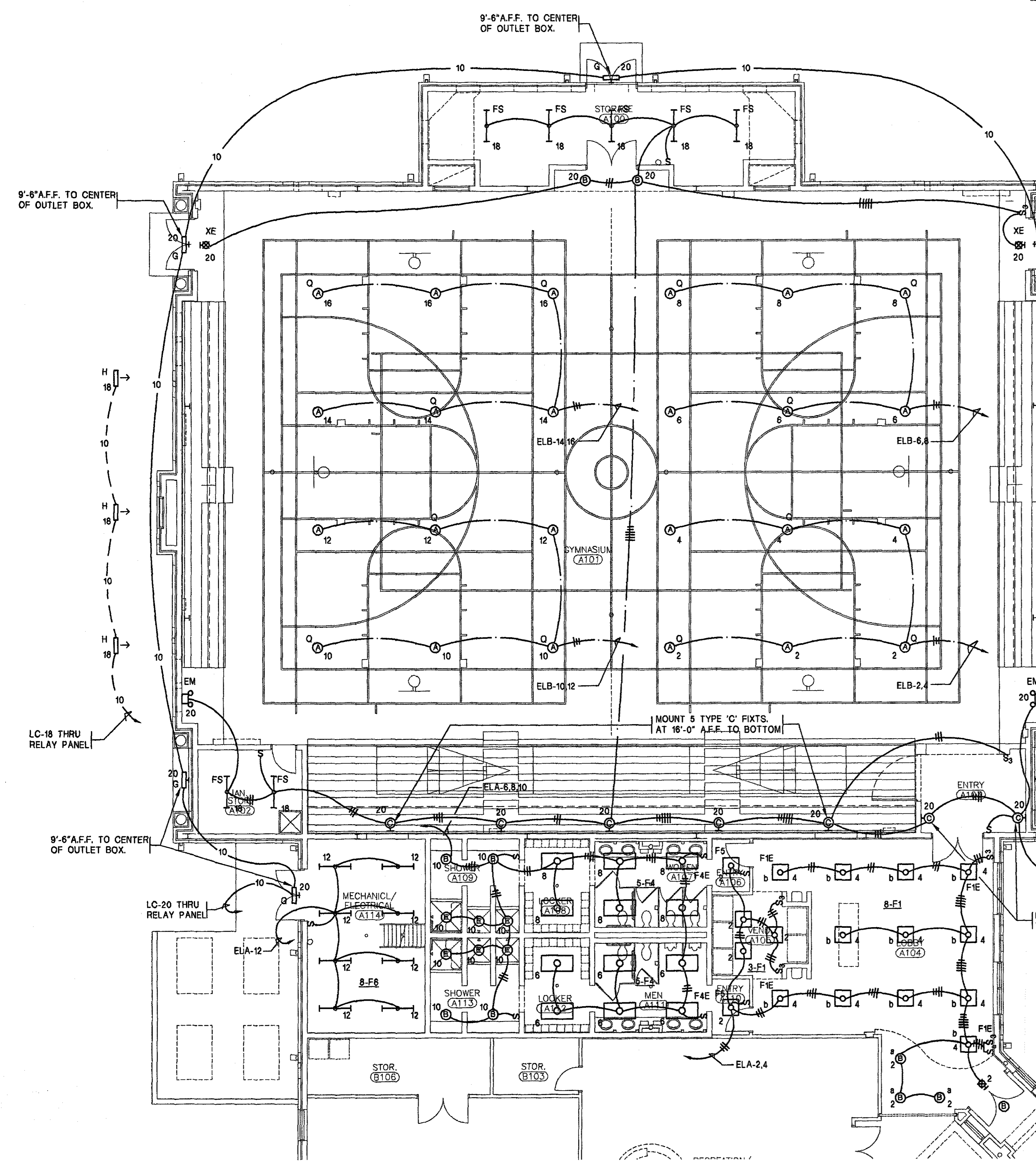
FINAL 09/17/01

drawn by: DRAWNBY

MECHANICAL SCHEDULES AND DETAILS

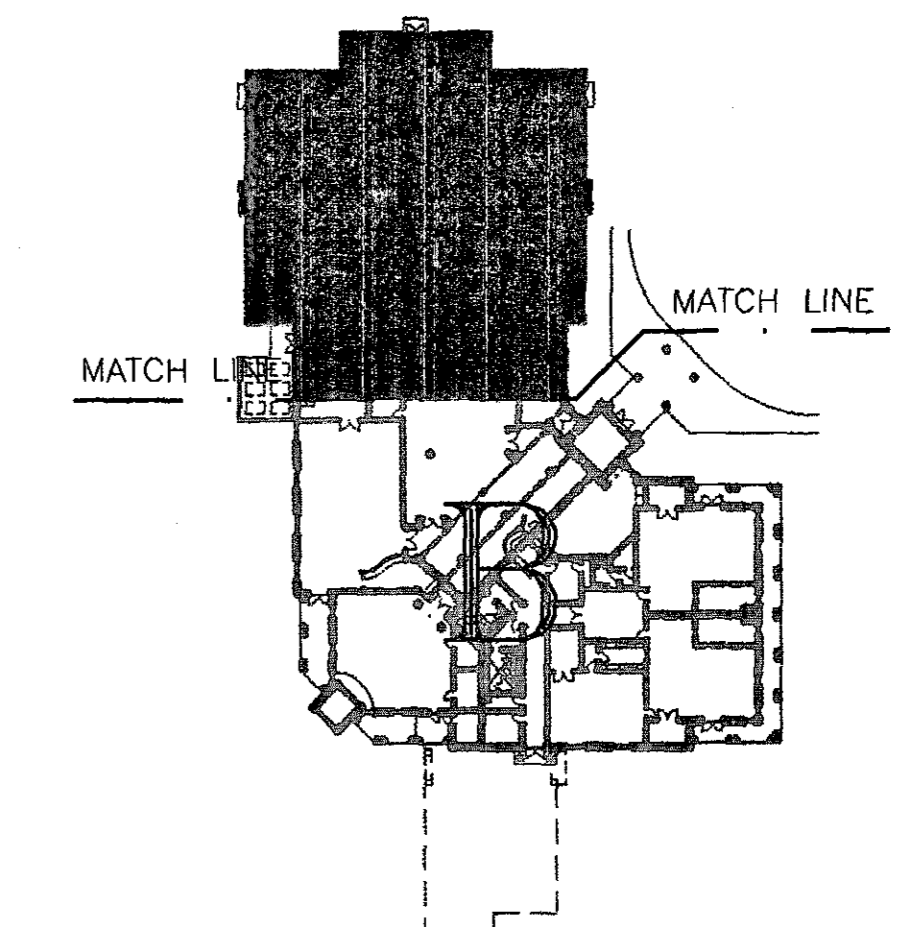
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**MECHANICAL PLATFORM LIGHTING FLOOR PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

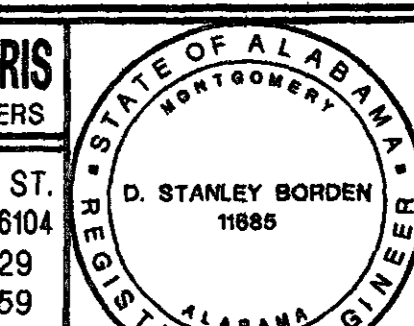
**LIGHTING FLOOR PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"



**KEY PLAN**  
 NO SCALE

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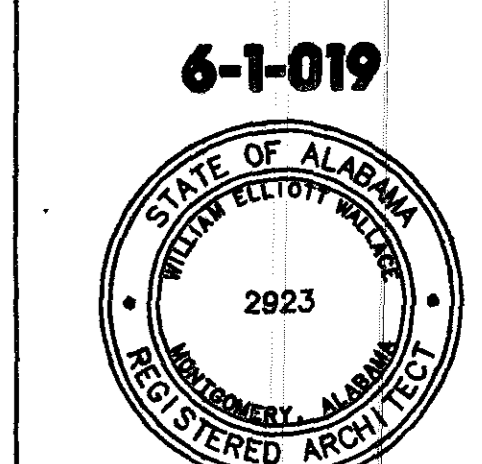
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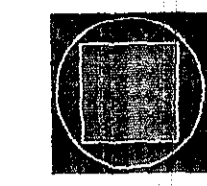
**A NEW RECREATION COMPLEX**  
 FOR THE  
*City of Orange Beach*  
 Alabama



Issue date

Design Development	08/14/01
FINAL	09/17/01

drawn by: SJ  
**LIGHTING FLOOR PLAN (PART-A) BID ITEM NO. 1**



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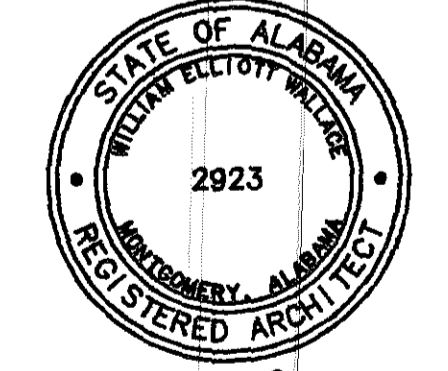
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*City of*  
*Orange*  
*Beach*  
alabama

6-1-019



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Design Development	08/14/01
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drawn by: SJ

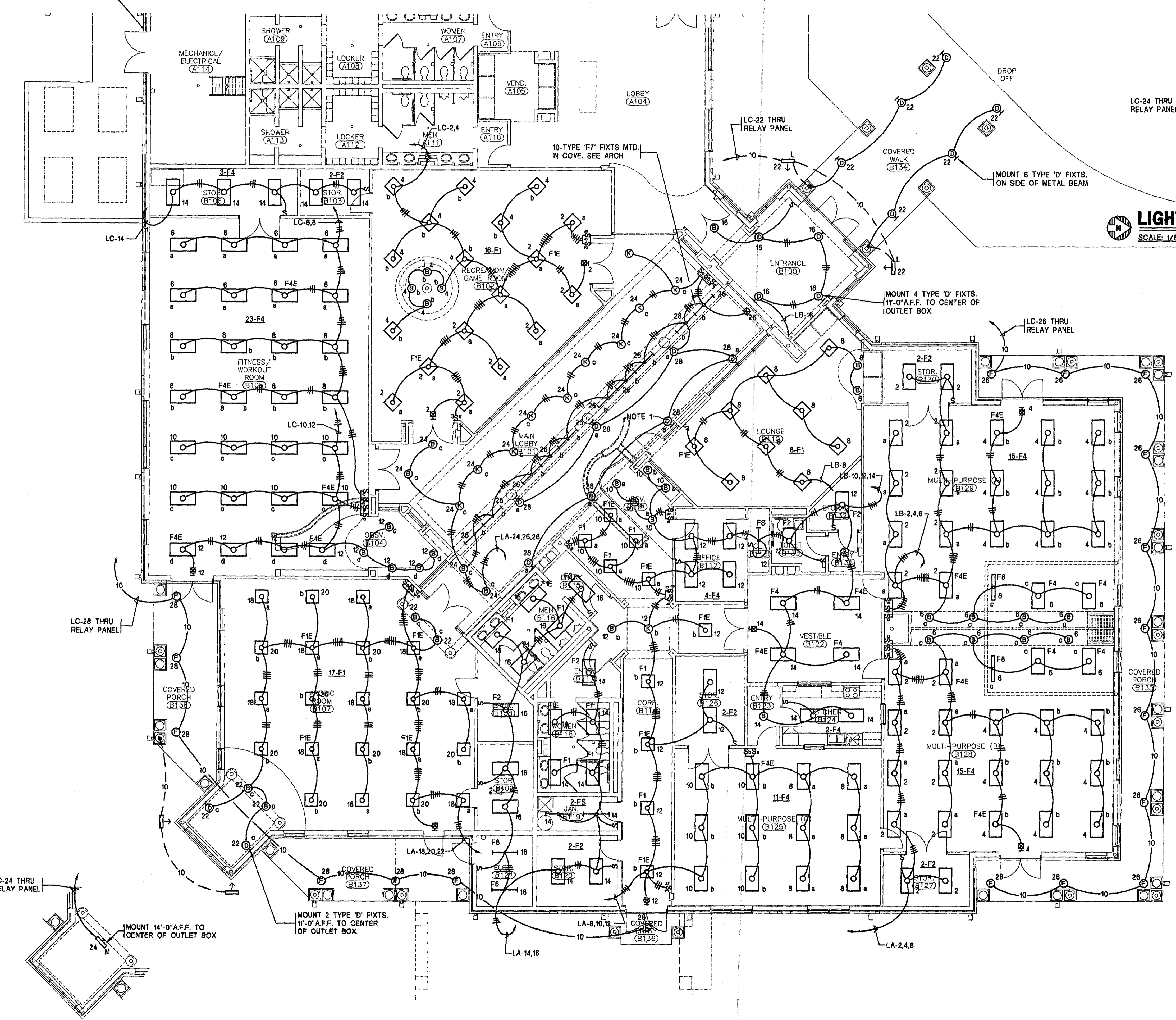
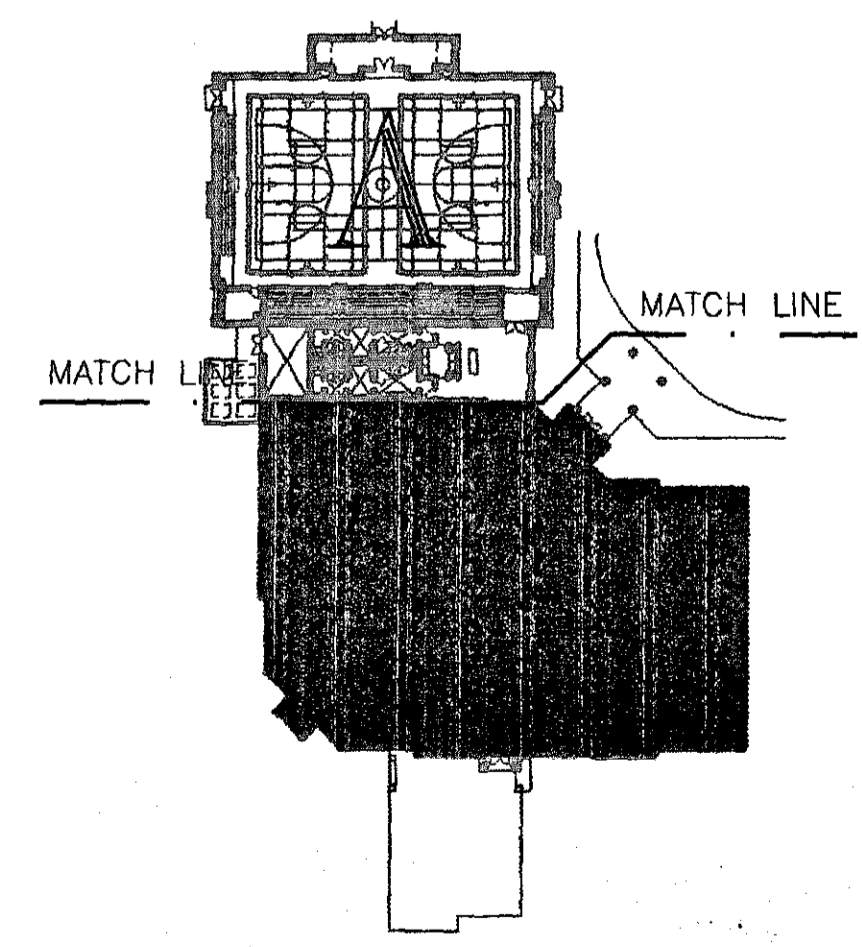
**LIGHTING FLOOR PLAN (PART-B)**  
**BID ITEM NO. 1**

95% SUBMITTAL

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sheet of 00

**LIGHTING PLAN @ ENTRANCE B100**  
SCALE: 1/8"=1'-0"

**KEY PLAN**  
NO SCALE



**LIGHTING PLAN @ AEROBICS RM B107**  
SCALE: 1/8"=1'-0"

**LIGHTING FLOOR PLAN (PART-B)**  
SCALE: 1/8"=1'-0"

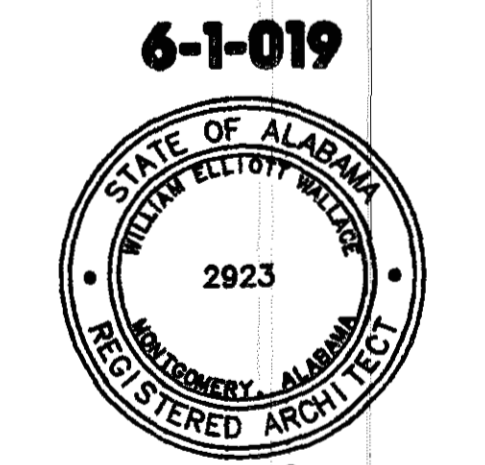
**BID ITEM NO. 1**

NOTES:  
1. VERIFY WITH ARCHITECT EXACT LOCATION & MOUNTING HEIGHT OF 7 TYPE 'D' LIGHT FIXTURES IN

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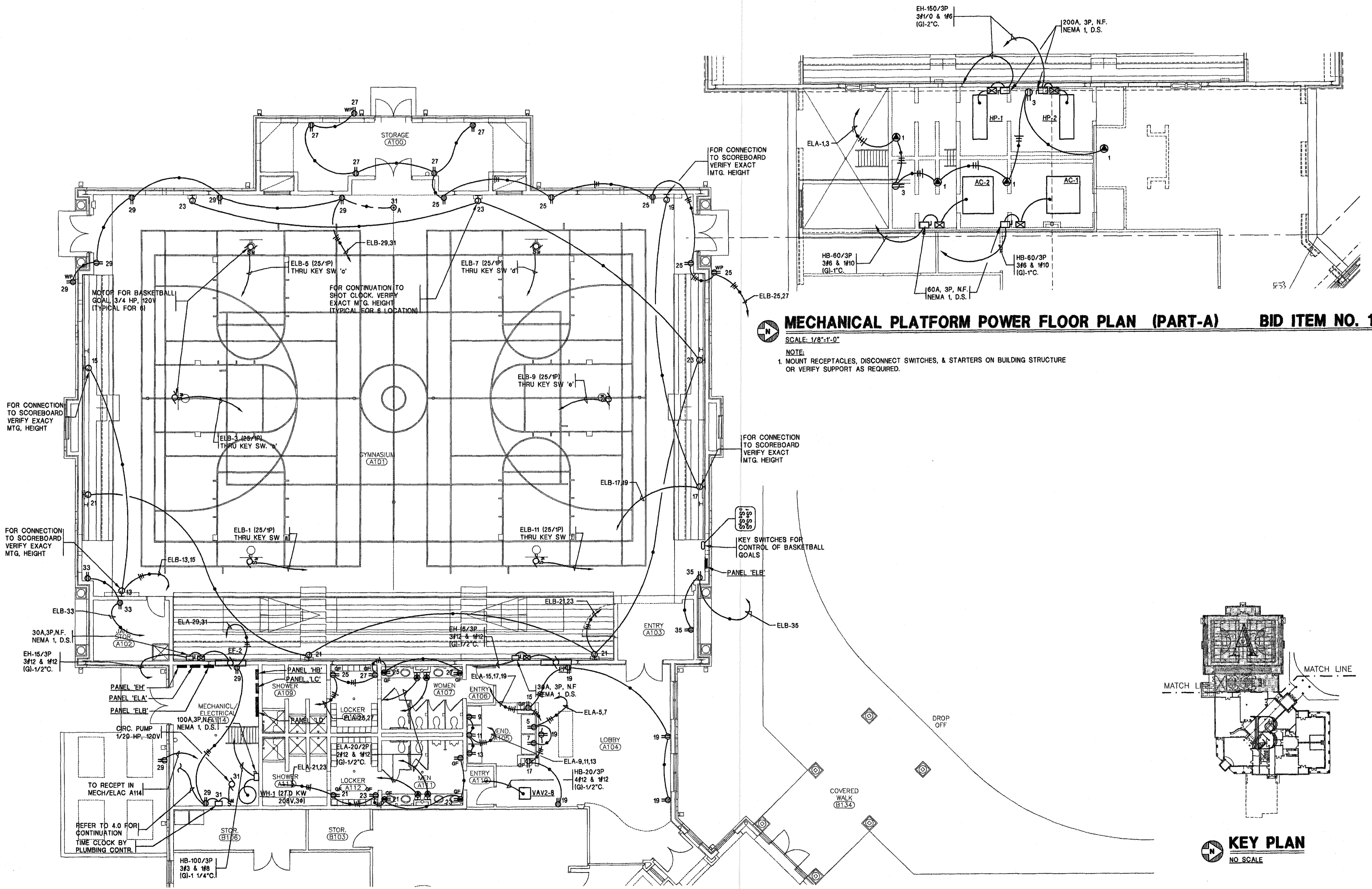
A NEW  
**RECREATION COMPLEX**  
 FOR THE  
 City of  
**Orange Beach**  
 Alabama



Issue date	
Design Development	08/14/01
FINAL	09/17/01

drawn by: SJ  
**POWER FLOOR PLAN (PART-A)**  
**BID ITEM NO. 1**

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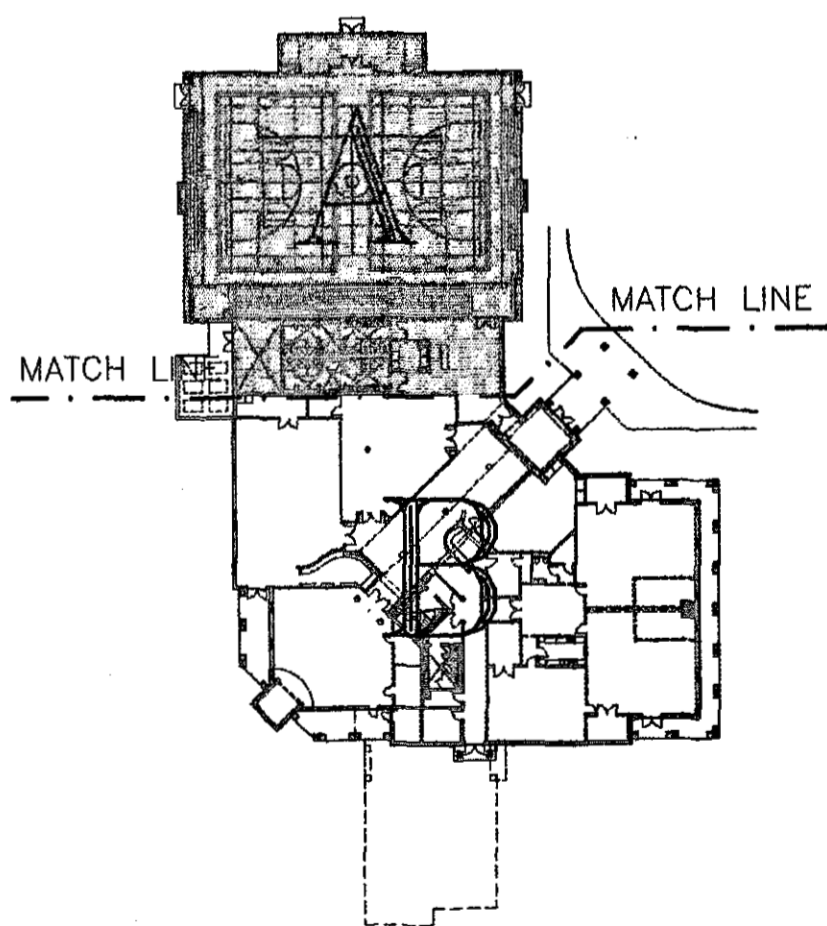


**MECHANICAL PLATFORM POWER FLOOR PLAN (PART-A) BID ITEM NO. 1**

SCALE: 1/8"=1'-0"

NOTE:  
 1. MOUNT RECEPTACLES, DISCONNECT SWITCHES, & STARTERS ON BUILDING STRUCTURE OR VERIFY SUPPORT AS REQUIRED.

**POWER FLOOR PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

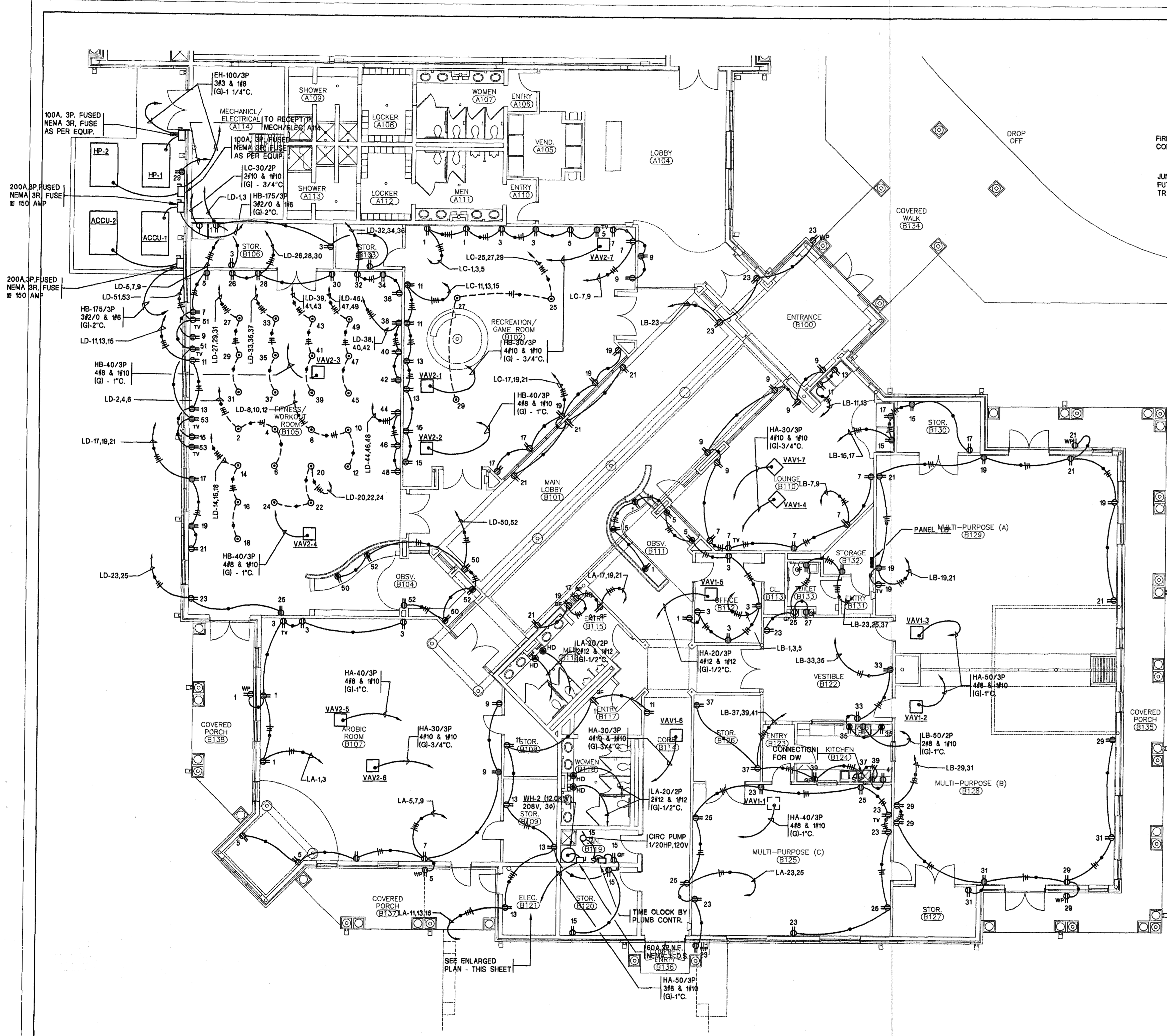


**KEY PLAN**  
 NO SCALE

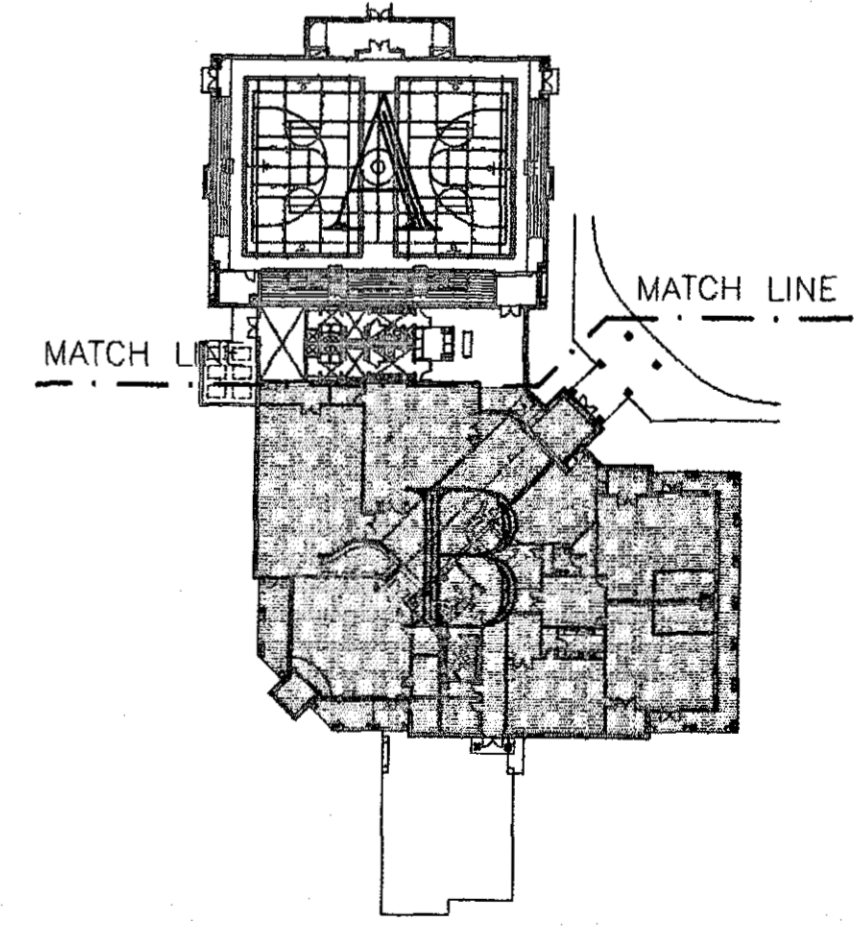
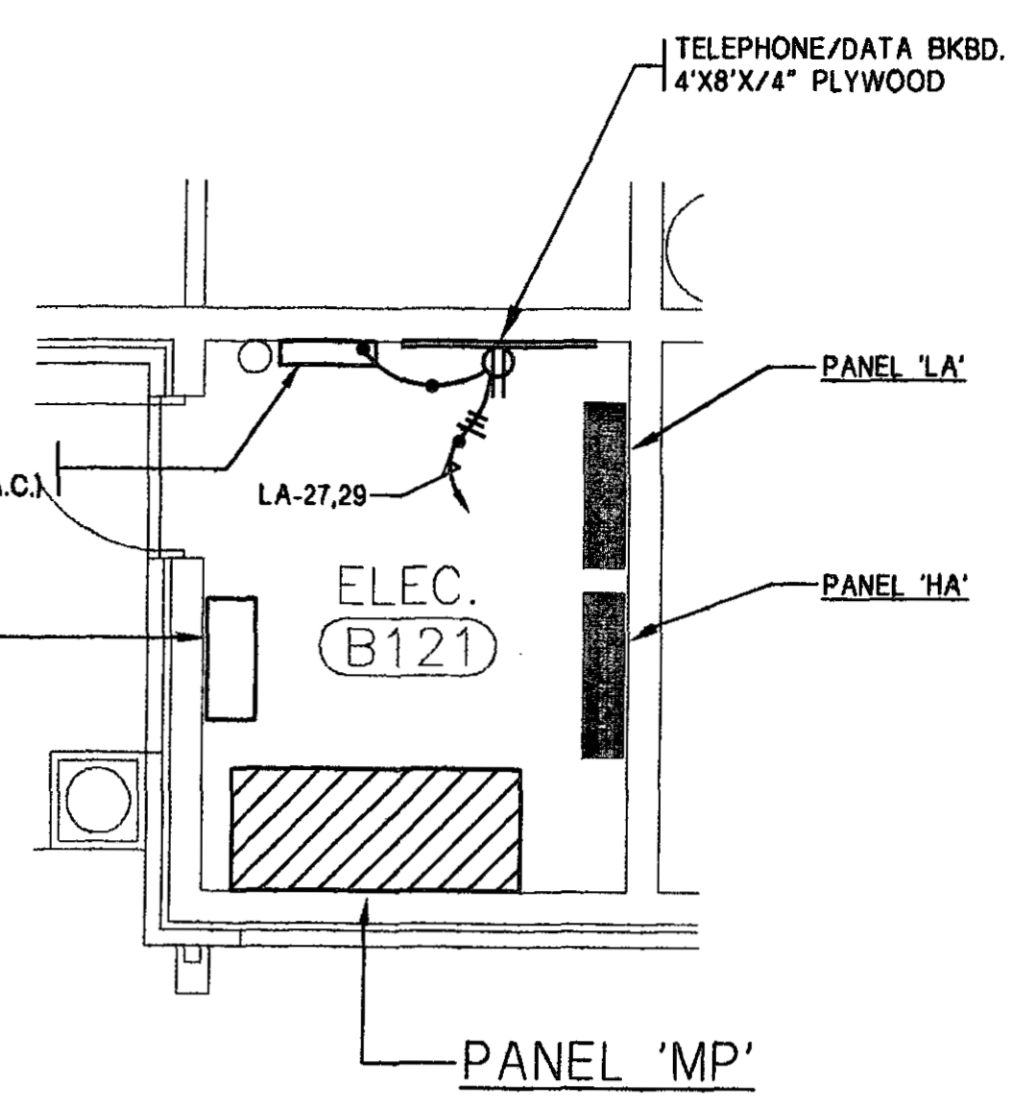
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 FAX. 334-269-1569  
 CAD NAME: 0155-E2.1

**D. STANLEY BORDEN**  
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**ENLARGED POWER PLAN - ELEC. B121**  
SCALE: 1/4"=1'-0"



**KEY PLAN**  
NO. SCALE

**POWER FLOOR PLAN (PART-B)** **BID ITEM NO. 1**  
SCALE: 1/8"=1'-0"

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A NEW  
**RECREATION  
COMPLEX**  
FOR THE  
City of  
**Orange  
Beach**  
Alabama

**6-1-019**  
STATE OF ALABAMA  
WALTER ELLIOTT WILCOX  
REGISTERED ARCHITECT  
2923

Issue	date
Design Development	08/14/01
FINAL	09/17/01

drawn by: SJ  
**POWER FLOOR PLAN (PART-B)**  
**BID ITEM NO. 1**

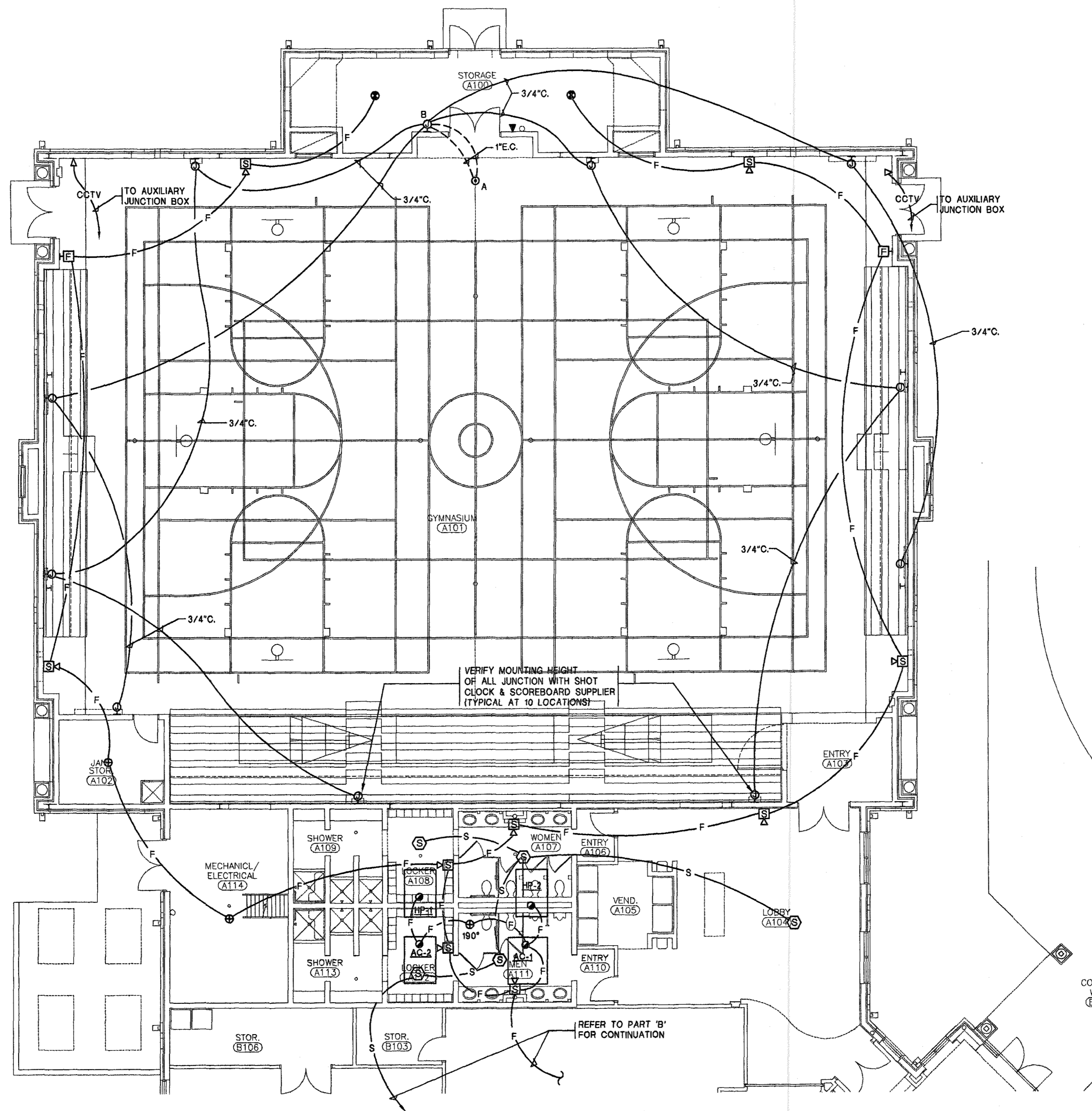
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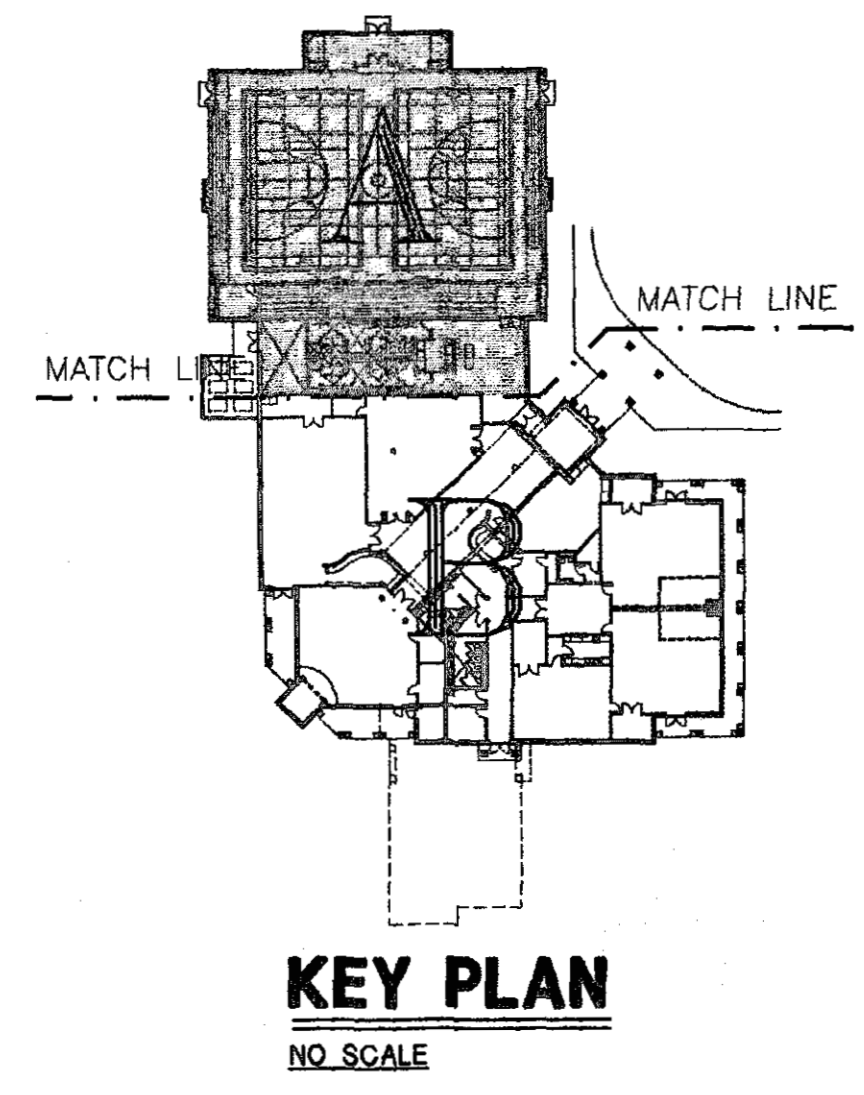
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MONTGOMERY ALA. 36104  
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CAD NAME: 0155-E2.2

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**AUXILIARY FLOOR PLAN (PART-A) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"



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**A NEW RECREATION COMPLEX**  
 FOR THE  
*City of Orange Beach*  
 Alabama

**6-1-019**

STATE OF ALABAMA  
 ARCHITECTURE BOARD  
 2923  
 MONTGOMERY, ALABAMA  
 REGISTERED ARCHITECT

Issue	date
Design Development	08/14/01
FINAL	09/17/01

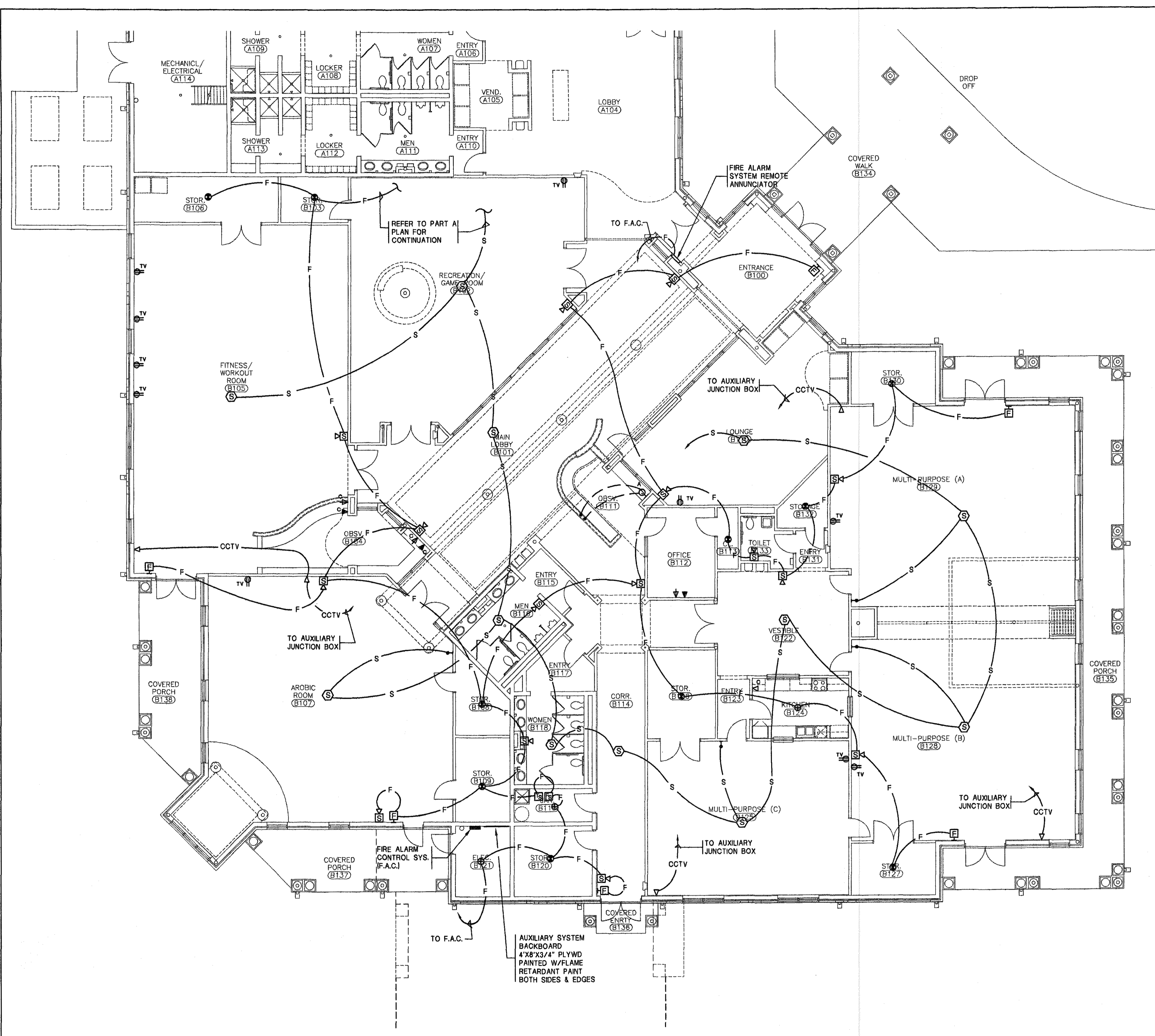
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**AUXILIARY FLOOR PLAN (PART-A) BID ITEM NO.1**

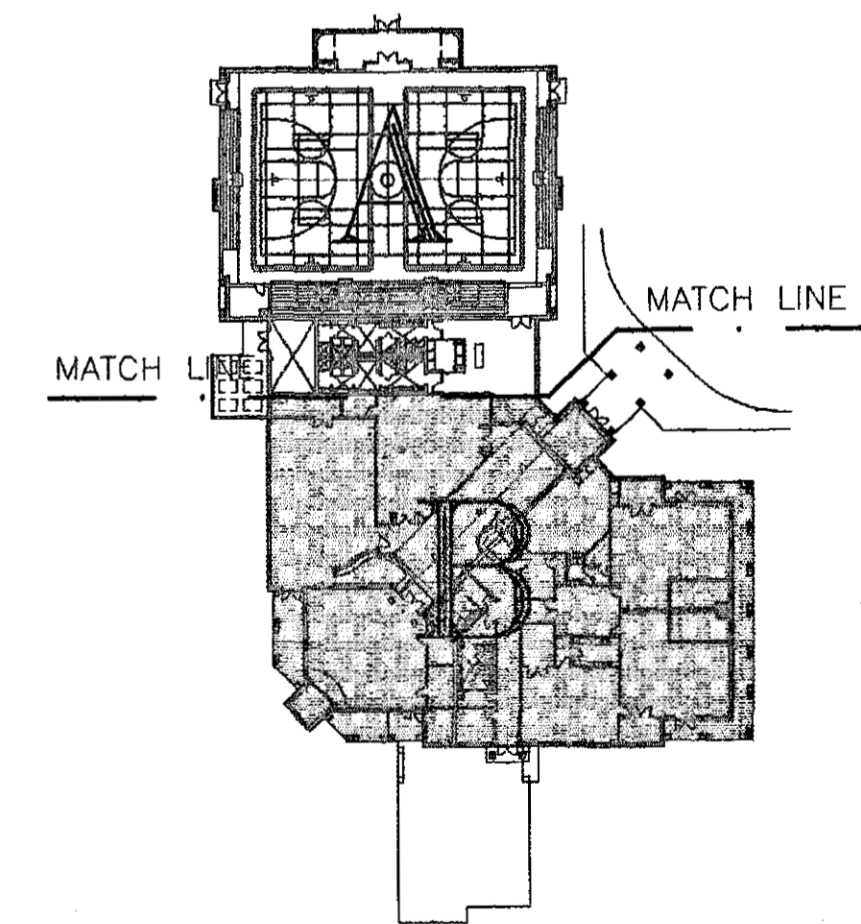
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**AUXILIARY FLOOR PLAN (PART-B) BID ITEM NO. 1**  
 SCALE: 1/8"=1'-0"

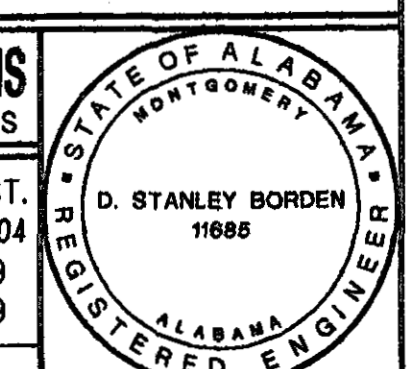


**KEY PLAN**  
 NO. SCALE

**NOT FOR CONSTRUCTION**

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**AUXILIARY FLOOR PLAN (PART-B) BID ITEM NO. 1**

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**E3.2**  
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**A NEW RECREATION COMPLEX**  
 FOR THE  
*City of Orange Beach*  
 Alabama

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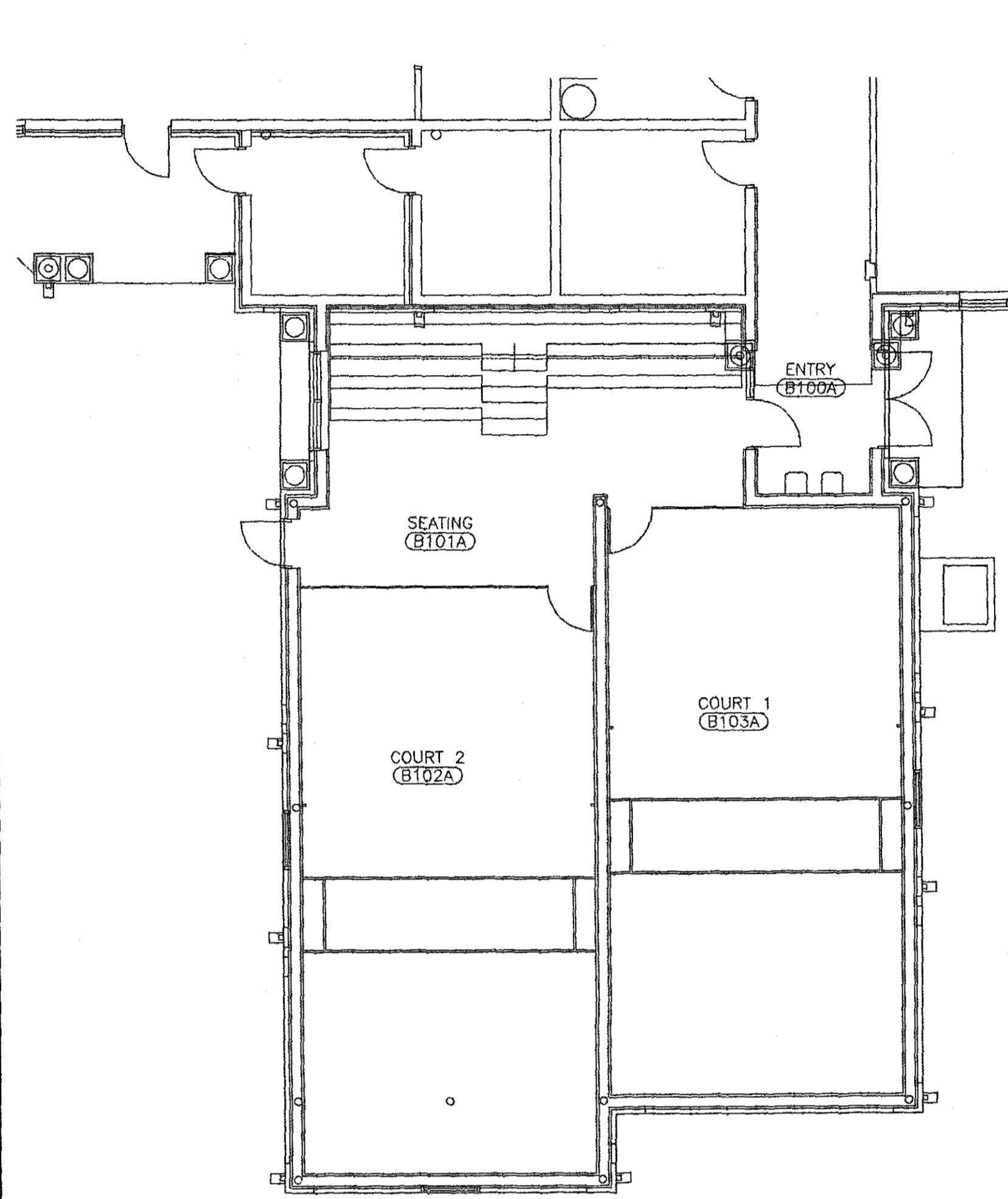
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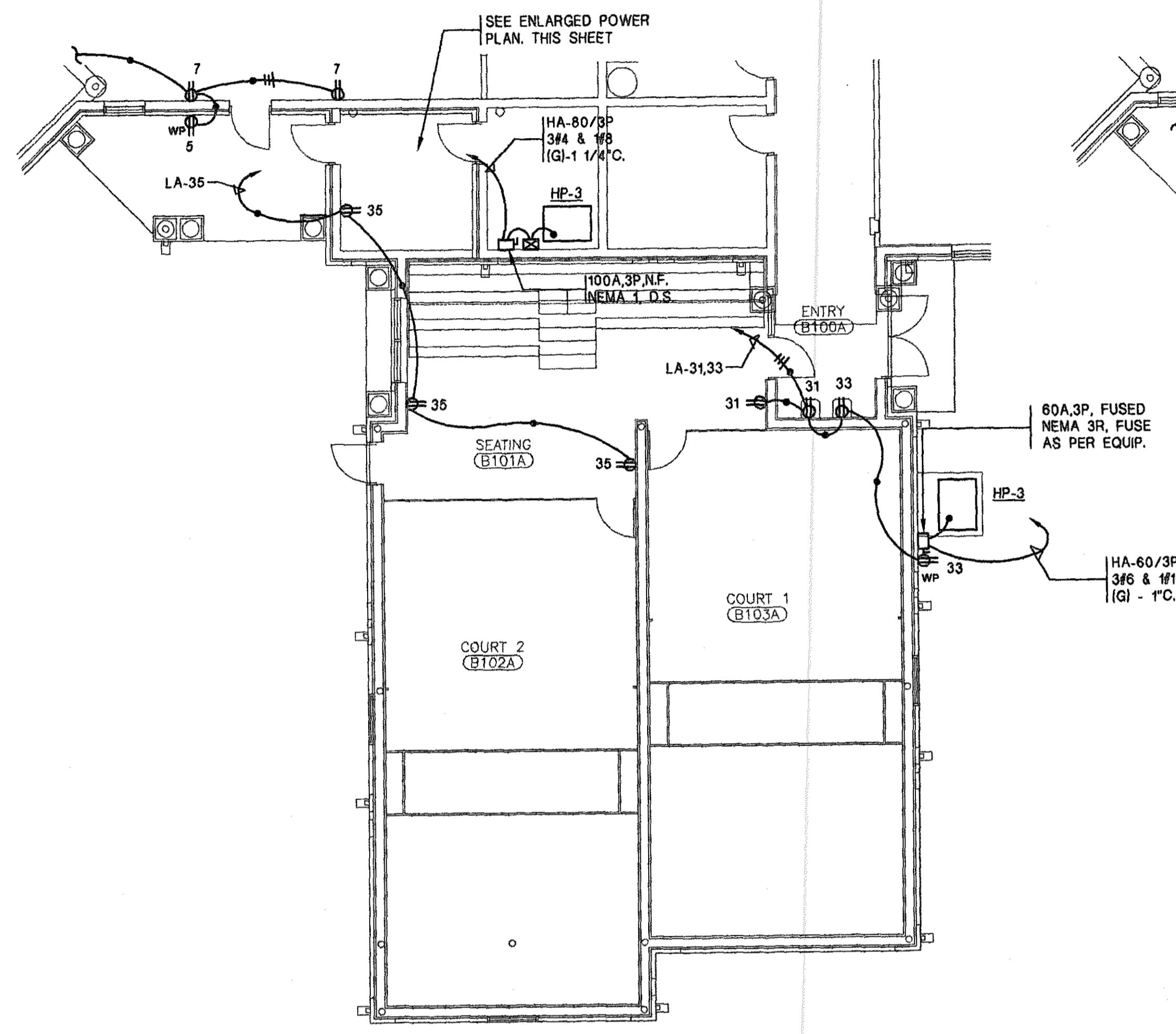
**6-1-019**

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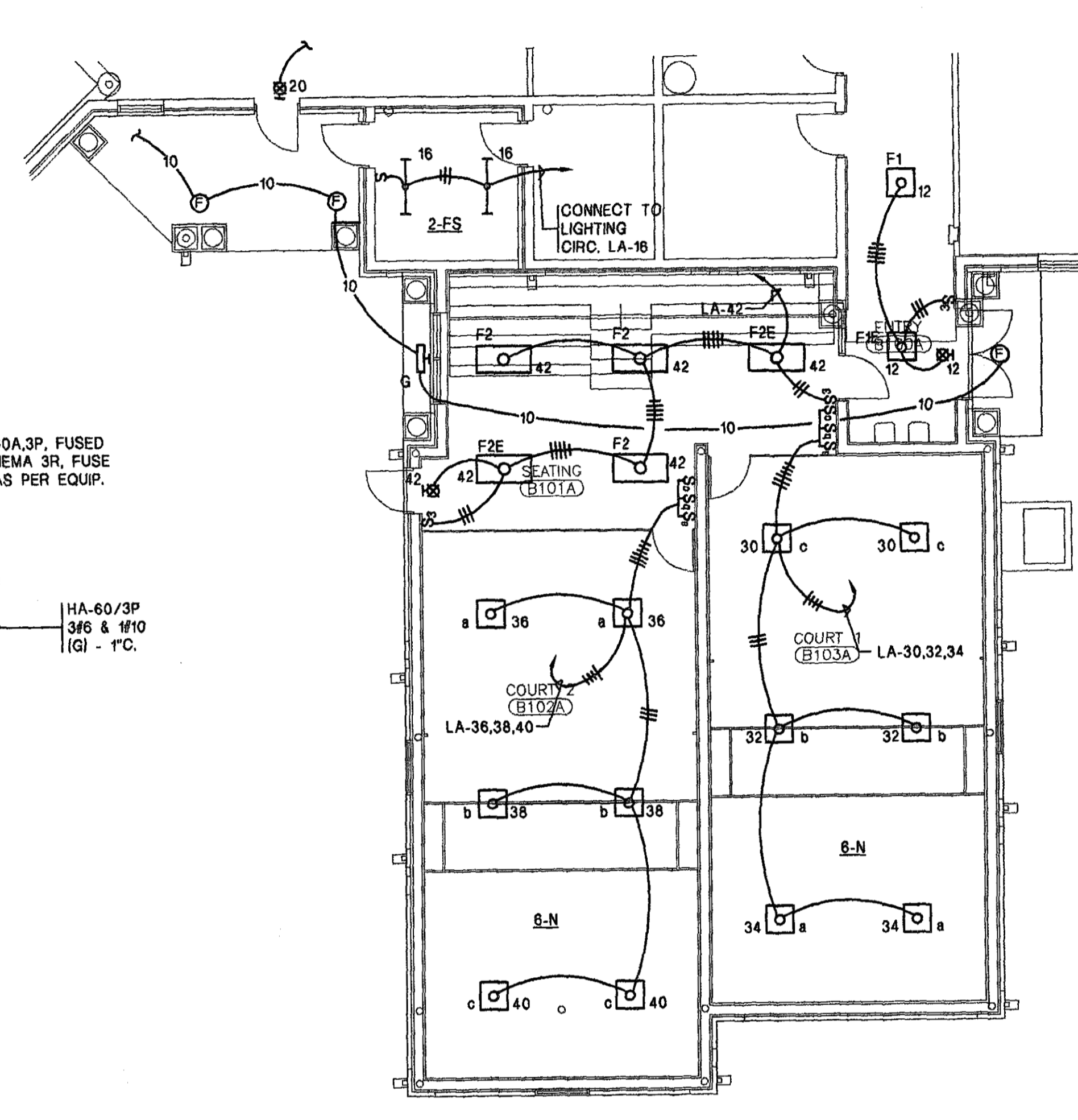
drawn by: SJ



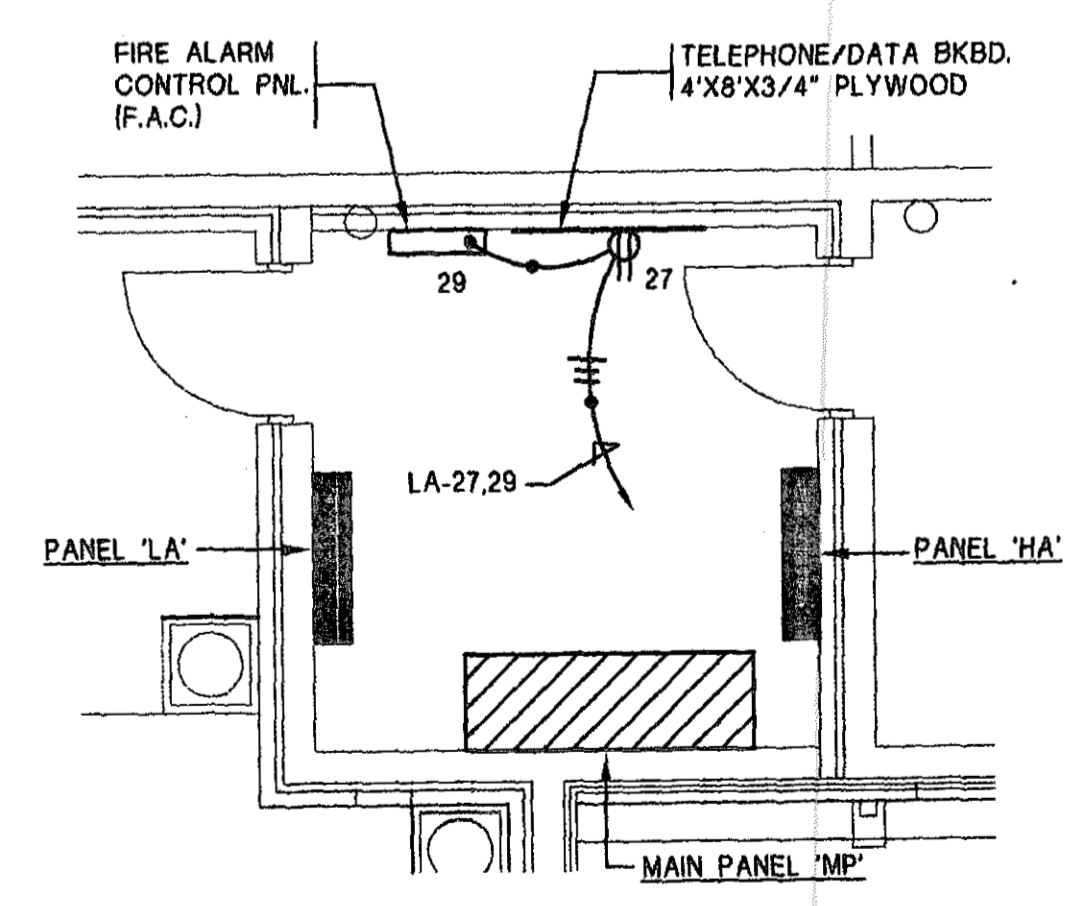
**AUXILIARY FLOOR PLAN (PART-B) BID ITEM NO.2**  
SCALE: 1/8"=1'-0"



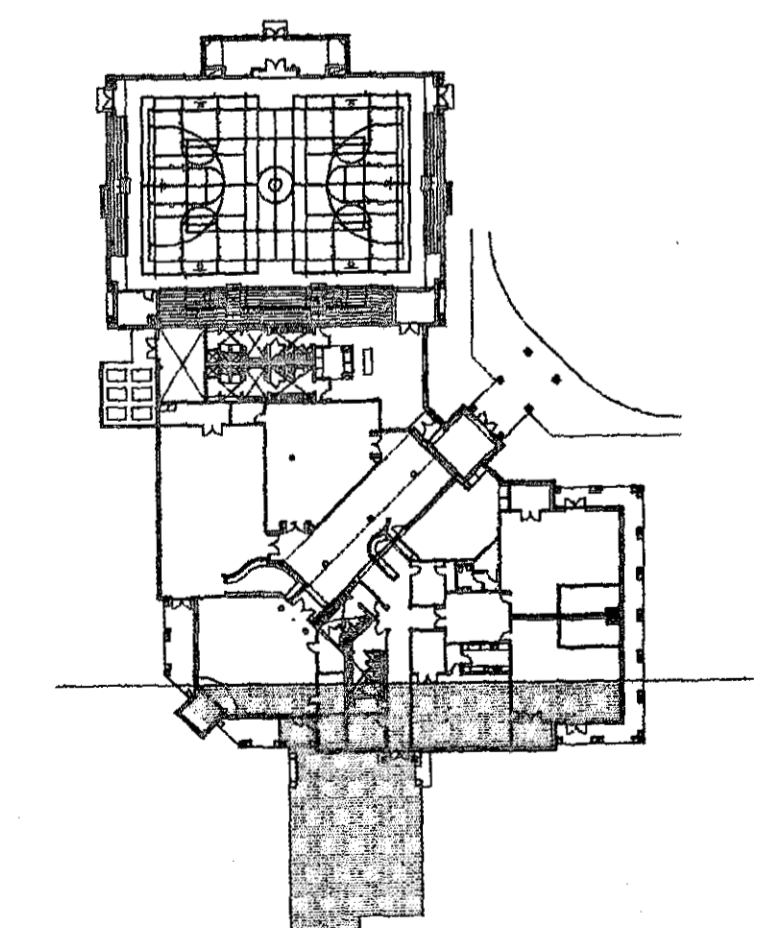
**POWER FLOOR PLAN (PART-B) BID ITEM NO.2**  
SCALE: 1/8"=1'-0"



**LIGHTING FLOOR PLAN (PART-B) BID ITEM NO. 2**  
SCALE: 1/8"=1'-0"



**ENLARGED POWER PLAN - ELEC B121**  
SCALE: 1/4"=1'-0"



**KEY PLAN**  
NO SCALE

PROGRESS PLOT NOT FOR CONSTRUCTION

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REGISTERED ELECTRICAL ENGINEER  
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A NEW RECREATION COMPLEX FOR THE City of Orange Beach, Alabama

6-1-019

STATE OF ALABAMA  
WALTER FELTLOTT BRIDGE  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue	date
Design Development	08/14/01
FINAL	09/17/01

drawn by:

**ELECTRICAL FLOOR PLAN (PART B) BID ITEM NO. 2**

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# ELECTRICAL SYMBOL LEGEND

<p><b>A</b> CEILING OUTLET, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.</p> <p><b>B</b> LIGHTING FIXTURE, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.</p> <p><b>O</b> FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED. REFER TO FIXTURE SCHEDULE</p> <p>FLUORESCENT STRIP OR INDUSTRIAL FIXTURE. SURFACE MOUNTED OR SUSPENDED.</p> <p>WALL BRACKET, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.</p> <p>EXIT LIGHT SURFACE MOUNTED ON CEILING.</p> <p>EXIT LIGHT BRACKET MTD. OVER DOOR OR WALL MTD. AS INDICATED.</p> <p>DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 18" A.F.F.</p> <p>DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. OR 4" ABOVE BACKSPLASH TO CENTERLINE. REFER TO ARCHITECTURAL DETAILS.</p> <p>DUPLEX RECEPTACLE FOR WATER COOLER. COORDINATE LOCATION AND HEIGHT WITH PLUMBING TRADE. RECEPTACLE WILL BE CONCEALED BEHIND WATER COOLER.</p> <p>DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 18" A.F.F. ISOLATED GROUND DEVICE.</p> <p>DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. OR 4" ABOVE BACKSPLASH TO CENTERLINE, ISOLATED GRD. DEVICE. REFER TO ARCH. DETAILS.</p> <p>DUPLEX RECEPTACLE, WEATHERPROOF W/GROUNDFULT INTERRUPTING CAPABILITIES. NEMA 5-20R, FLUSH MOUNTED 18" A.F.F.</p> <p>DUPLEX RECEPTACLE, NEMA 5-20R, 18" A.F.F. FLUSH MOUNTED. SAFETY DEVICE.</p> <p>DUPLEX RECEPTACLE, ANY OF ABOVE EXCEPT GROUND-FAULT TYPE.</p> <p>FLOORBOX, FLUSH MTD, 4 WIRING COMPARTMENTS, W/ 2 DUPLEX RECPTS 1 ISOLATED GRD RECPT &amp; 1 TEL/DATA BRACKET-2RJ JACKS, RECESSED ACTIVATION COVER (CARPET TRIMPLATE/WIRE MGMT BLOCKS CAT # RAKM11 OR FLUSH CARPET PLATES &amp; TRIM RING CATALOG # RAKMTR-BUFF WIREMOLD # RFB4/RFB-DK/DTB-2-2T/COVER</p> <p>FLOORBOX FLUSH MOUNTED FOR TELEPHONE SERVICE, HUBBELL #B2536 WITH HUBBELL #S2525 COVER. PROVIDE BRASS CARPET FLANGE AS REQUIRED.</p> <p>FLOORBOX FLUSH MOUNTED FOR DATA SERVICE HUBBELL #B2536 WITH HUBBELL #S2525 COVER. PROVIDE BRASS CARPET FLANGE AS REQUIRED.</p> <p>FLOORBOX FLUSH MOUNTED FOR ALARM SYSTEM CONNECTION, HUBBELL # WITH HUBBELL # COVER. PROVIDE BRASS CARPET FLANGE AS REQUIRED.</p> <p>SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.</p> <p>SWITCH, THREE-WAY, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.</p> <p>SWITCH, FOUR-WAY, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.</p> <p>SWITCH, CONTROL OUTLET "a" (TYPICAL)</p> <p>SWITCH, SINGLE POLE, 20A, TOGGLE, W/RED PILOT LIGHT. FLUSH MOUNTED 44" A.F.F.</p> <p>MANUAL MOTOR STARTER, SINGLE POLE, 1 SPEED, WITH PILOT LIGHT MOUNTED 48" A.F.F.</p> <p>JUNCTION BOX, MOUNTED ABOVE CEILING OR IN JOIST SPACE. SIZE AS NOTED OR REQUIRED.</p> <p>JUNCTION BOX, WALL MOUNTED. MOUNTING HEIGHT AND SIZE AS NOTED OR REQUIRED.</p> <p>JUNCTION BOX, WALL MOUNTED, FLEX CONN. TO EQUIPMENT. MOUNTING HEIGHT &amp; SIZE AS NOTED OR REQUIRED.</p> <p>TELEPHONE OUTLET FLUSH MOUNTED 60" A.F.F. FOR WALL PHONE W/3/4" C. STUBBED INTO CEILING SPACE, TERMINATE W/BUSHING.</p> <p>TELEPHONE OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" STUBBED-UP INTO ACCESSIBLE CEILING SPACE TERMINATE WITH BUSHING PROVIDE ONE HOLE COVER.</p> <p>DATA OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" STUBBED-UP INTO ACCESSIBLE CEILING SPACE TERMINATE WITH BUSHING PROVIDE ONE HOLE COVER.</p> <p>TELEVISION OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" STUBBED-UP INTO ACCESSIBLE CEILING SPACE TERMINATE WITH BUSHING PROVIDE ONE HOLE COVER.</p> <p>ALARM SYSTEM WALL OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" C. STUBBED UP INTO ACCESSIBLE CEILING SPACE. TERMINATE WITH BUSHING. PROVIDE ONE HOLE COVER.</p> <p>MOTOR STARTER, FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE EXACT LOCATION W/MECHANICAL TRADE.</p> <p>DISCONNECT SWITCH, SIZE AS INDICATED.</p> <p>MOTOR, SIZE AND CHARACTERISTICS AS NOTED.</p> <p>SERVICE ENTRANCE PANELBOARD</p> <p>LIGHTING OR POWER BRANCH CIRCUIT PANELBOARD</p> <p>UTILITY COMPANY METER.</p>	<p>BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL, 1/2" C. UNLESS NOTED.</p> <p>BRANCH CIRCUIT, EXPOSED IN BAR JOIST SPACE, BELOW CEILING OR ON WALLS. 1/2" C. UNLESS NOTED. ROUTE PERPENDICULAR AND PARALLEL WITH STRUCTURAL MEMBERS.</p> <p>BRANCH CIRCUIT, CONCEALED IN SLAB BELOW SLAB, OR BELOW GRADE.</p> <p>BRANCH CIRCUIT, ANY OF ABOVE, W/ GREEN GROUNDING CONDUCTORS IN ADDITION TO CIRCUIT CONDUCTORS SHOWN, MINIMUM #12 AWG COPPER</p> <p>BRANCH CIRCUIT, HOMERUN TO PANEL, CIRCUIT SHOWN INDICATES 2#12 &amp; 1#12 (G)-1/2" C. TO ONE 20/1P CIRCUIT BREAKER, INDICATES 3#12 &amp; 1#12 (G)-1/2" C. TO TWO 20/1P BREAKERS, INDICATES 4#12 &amp; 1#12 (G)-1/2" C. TO THREE 20/1P BREAKERS.</p> <p>BRANCH CIRCUIT W/ #8 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN</p> <p>BRANCH CIRCUIT W/ #10 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN</p> <p>BRANCH CIRCUIT, HOMERUN TO PANEL, CIRCUIT SHOWN 2 #12-1/2" C. TO 20/1P CIRCUIT BREAKER, 3 #12-1/2" C., 4#12-1/2" C., ETC. AS REQUIRED BY N.E.C. OR AS OTHERWISE INDICATED.</p> <p>DATA SYSTEM RACEWAY INSTALLED IN FLOORSLAB 3/4" MIN WITH PULLWIRE.</p> <p>ALARM SYSTEM RACEWAY INSTALLED IN FLOORSLAB 3/4" MIN. WITH PULLWIRE.</p> <p>FAC FIRE ALARM SYSTEM CONTROL PANEL.</p> <p>FIRE ALARM SYSTEM MANUAL PULL STATION 44" A.F.F. FLUSH MTD.</p> <p>FIRE ALARM SYSTEM HORN/LIGHT COMBINATION, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.</p> <p>FIRE ALARM SYSTEM STROBE ONLY UNIT, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.</p> <p>FIRE ALARM SYSTEM HORN/LIGHT COMBINATION, WALL MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS. UNIT TO BE FURNISHED W/ WIRE GUARD</p> <p>FIRE ALARM SYSTEM SPEAKER/STROBE (HORN/STROBE) CEILING MOUNTED. (VERIFY LOCATION W/ARCHITECTURAL REFLECTIVE CEILING PLAN).</p> <p>CLOSED CIRCUIT TV SYSTEM CEILING MOUNTED CAMERA.</p> <p>CLOSED CIRCUIT TV SYSTEM CEILING MOUNTED CAMERA IN WEATHERPROOF HOUSING.</p> <p>CCTV CLOSED CIRCUIT TV SYSTEM CONDUIT &amp; WIRE AS PER MANUFACTURER.</p> <p>FIRE ALARM SYSTEM HEAT DETECTOR, 135° F. UNLESS NOTED 190 DEGREES F.</p> <p>FIRE ALARM SYSTEM SMOKE DETECTOR, (LOW PROFILE) CEILING MOUNTED.</p> <p>FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR ON SUPPLY SIDE W/ RELAY AS REQUIRED FOR MECH. UNIT SHUTDOWN</p> <p>FIRE ALARM SYSTEM, SUPERVISED BRANCH CIRCUITING AND CONDUIT AS RECOMMENDED BY MANUFACTURER.</p> <p>FIRE ALARM SYSTEM, CONNECTION TO TAMPER SWITCH, VERIFY REQUIREMENTS WITH SPRINKLER CONTRACTOR.</p> <p>FIRE ALARM SYSTEM, CONNECTION TO FLOW SWITCH, VERIFY REQUIREMENTS WITH SPRINKLER CONTRACTOR.</p> <p>WALL OUTLET FOR CONNECTION TO ELECTRIC HAND DRYER FLUSH MOUNTED REFER TO ARCHITECTURAL ELEVATIONS &amp; DETAILS FOR HEIGHT. MAKE CONNECTION AS PER MANUF. REQMTS. (IF HAND DRYER NOT FURNISHED UNDER CONTRACT FURNISH &amp; INSTALL BLANK COVER &amp; BREAKER SHALL BECOME SPARE)</p> <p>ELECTRICAL CONNECTION TO MOTORIZED DAMPER 120VOLT, VERIFY LOCATION W/MECH CONTRACTOR.</p> <p>DUPLEX RECEPTACLE (NEMA 5-20R)/ TELEVISION OUTLET FLUSH MOUNTED @ 7'-4" AFF UNLESS NOTED OTHERWISE, TWO GANG BOX W/ DIVIDER, PASS &amp; SEYMOUR # SP128-GRY. PROVIDE 3/4" CONDUIT FROM TELEVISION SIDE TO ABOVE ACCESSIBLE CEILING.</p> <p>DOOR INTERCOM SYSTEM, VOICE ENTRY STATION, (WEATHERPROOF FOR OUTDOOR LOCATIONS), SEMI-FLUSH MOUNTED @ 48" A.F.F.</p> <p>DOOR INTERCOM SYSTEM, VIDEO/VOICE ENTRY STATION, W/CAMERA SEMI-FLUSH MOUNTED @ 48" A.F.F.</p> <p>SECURITY SYSTEM, MOTION DETECTOR, CEILING MOUNTED.</p> <p>SECURITY SYSTEM, MOTION DETECTOR, WALL MOUNTED @ 12" BELOW CEILING.</p> <p>SECURITY SYSTEM, CONDUIT &amp; WIRE AS PER MANUFACTURER REQUIREMENTS.</p> <p>SECURITY SYSTEM, DOOR CONTACTS FLUSH MOUNTED IN DOOR JAMB.</p> <p>SECURITY SYSTEM, DOOR CONTACTS W/MAG-LOCK FLUSH IN DOOR JAMB.</p>
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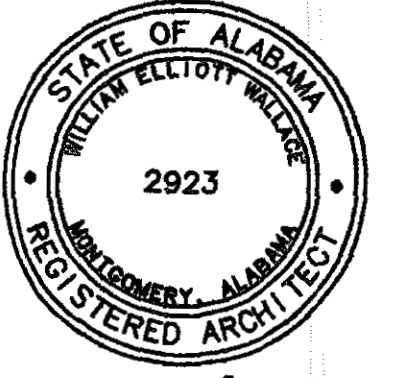
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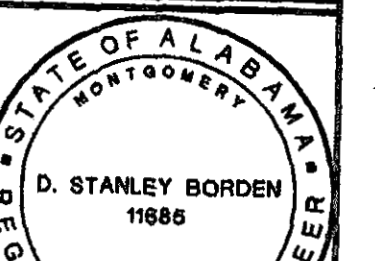
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**ELECTRICAL  
 LEGEND &  
 FIXTURE  
 SCHEDULE**

PROGRESS PLOT **NOT FOR CONSTRUCTION**

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