EQUITATION FACILITY
STUDENT BARN AND OUTDOOR ARENA

JONESBORO, ARKANSAS

DR. LESLIE WYATT, PRESIDENT

PROJECT TEAM:

THE CAHOON FIRM, P.A.	Architecture
ENGINEERING CONSULTANTS, INC.	Structural
PETTIT & PETTIT, Consulting Engineers, Inc.	Engineering

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Thu Aug 27 11:23:42 1998

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STUDENT BARN AND ARENA
ARKANSAS STATE UNIVERSITY
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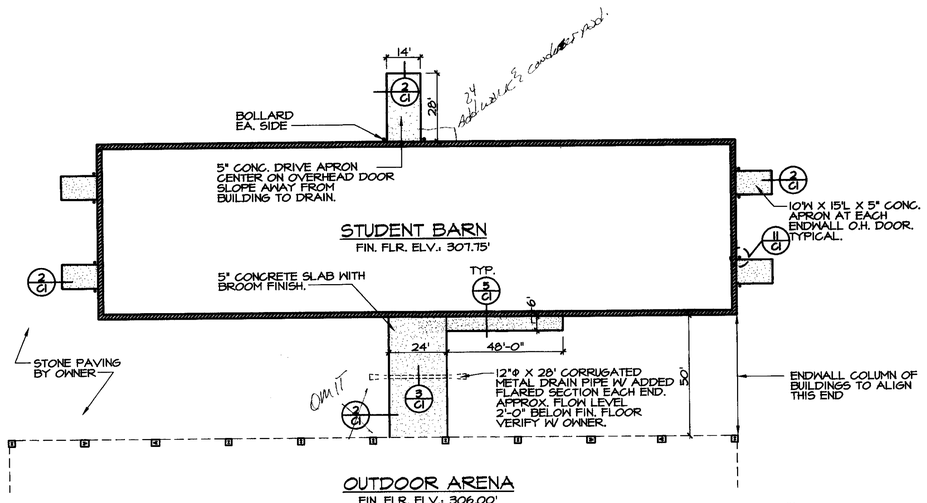
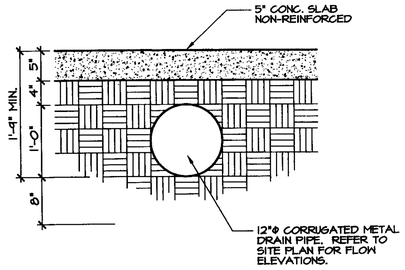
Seal:

Sheet Name: COVERSHEET	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 9711COVR
Sheet No.:	

INDEX TO DRAWINGS

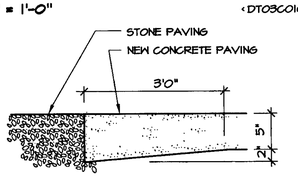


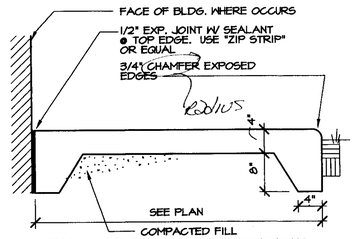
1 PARTIAL PLAN - STUDENT BARN
1"=30'-0"



3 DRAIN PIPE DETAIL
1" = 1'-0"

‹ DT03C010 ›

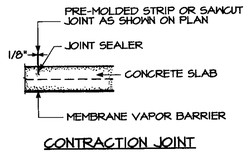




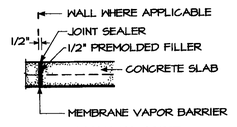
TYPICAL AT OTHER MISC. LOCATIONS

5 EXTERIOR CONC SLAB/WALK
1" = 1'-0"

‹ DT05C010 ›



CONTRACTION JOINT



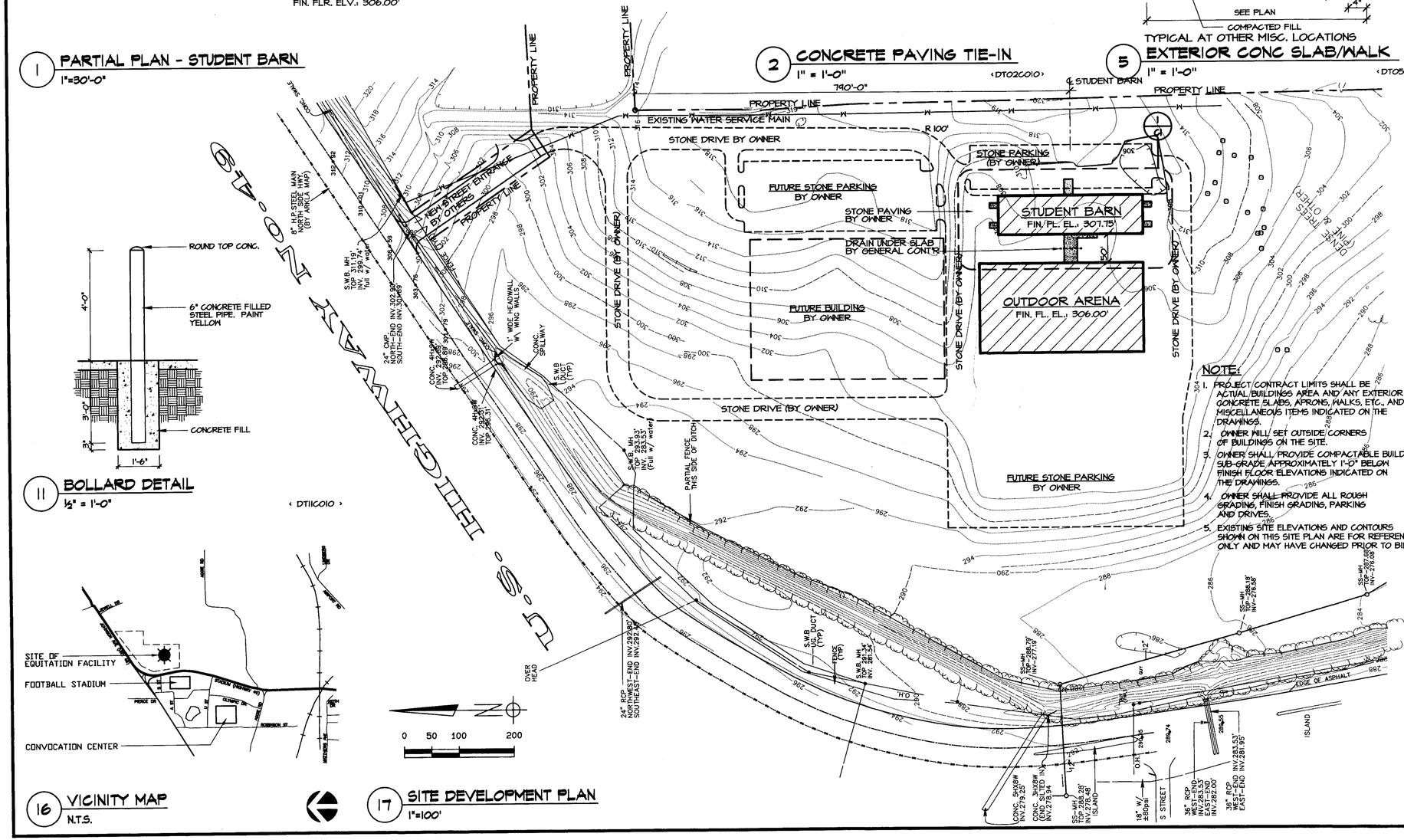
EXPANSION JOINT

6 EXTERIOR CONC. JOINT DETAILS
1" = 1'-0"

‹ DT06C011 ›

2 CONCRETE PAVING TIE-IN
1" = 1'-0"

‹ DT02C010 ›



NOTE:

1. PROJECT CONTRACT LIMITS SHALL BE ACTUAL BUILDINGS AREA AND ANY EXTERIOR CONCRETE SLABS, APRONS, WALKS, ETC., AND MISCELLANEOUS ITEMS INDICATED ON THE DRAWINGS.
2. OWNER WILL/ SET OUTSIDE CORNERS OF BUILDINGS ON THE SITE.
3. OWNER SHALL/ PROVIDE COMPACTABLE BUILDING SUB-GRADE APPROXIMATELY 1'-0" BELOW FINISH FLOOR ELEVATIONS INDICATED ON THE DRAWINGS.
4. OWNER SHALL PROVIDE ALL ROUGH GRADING, FINISH GRADING, PARKING AND DRIVES.
5. EXISTING SITE ELEVATIONS AND CONTOURS SHOWN ON THIS SITE PLAN ARE FOR REFERENCE ONLY AND MAY HAVE CHANGED PRIOR TO BID.

ARKANSAS FIRE PREVENTION DATA

CURRENT APPLICABLE CODES IN ARKANSAS:

FIRE PREVENTION CODE:	1992 ARKANSAS FIRE PREVENTION CODE, VOLUME I
BUILDING CODE:	1992 ARKANSAS FIRE PREVENTION CODE, VOLUME II
EARTHQUAKE CODE:	1994 STANDARD BUILDING CODE
PLUMBING CODE:	1991 ARKANSAS STATE PLUMBING CODE
GAS CODE:	1991 ARKANSAS STATE GAS CODE, 1991 ARKANSAS STATE PLUMBING CODE - CHAPTER 15
MECHANICAL CODE:	1992 ARKANSAS STATE MECHANICAL CODE
ENERGY CODE:	1994 ARKANSAS RULES AND REGULATIONS FOR ENERGY EFFICIENCY STANDARDS FOR NEW CONSTRUCTION

	NEW CONSTRUCTION		CODE REFERENCE
OCCUPANCY CLASSIFICATION	FARM BUILDINGS		504
MIN. OCCUPANCY LOAD	NA		
TYPE OF CONSTRUCTION	NA		
SPECIAL REQUIREMENTS	DL + LL = L/180		1210.1
ALLOWABLE HEIGHT AND BUILDING AREA PER FLOOR	ALLOWABLE	PROPOSED	
MAX. HGT. STU. BARN	NA	22'	TABLE 400
MAX. HGT. ARENA	NA	43'	
MAX. # STORIES STU. BARN	NA	1	
MAX. # STORIES ARENA	NA	1	
MAX. AREA STU. BARN	NA	14,580 S.F.	
MAX. AREA ARENA	NA	44,500 S.F.	
FLOOR AREAS GROSS STU. BARN	14,580 S.F.		
FLOOR AREAS GROSS ARENA	44,500 S.F.		
FLOOR AREAS NET STU. BARN	14,580 S.F.		
FLOOR AREAS NET ARENA	44,500 S.F.		
SEISMIC ZONE	THREE (3)		1206.1
HORIZONTAL SEPARATION (DISTANCE FROM EACH EXTERIOR WALL TO ASSUMED AND COMMON PROPERTY LINES)	BUILDING FACE	SEPARATION DISTANCE	TABLE 600
	NORTH	OVER 50'	
	SOUTH	OVER 50'	
	EAST	OVER 50'	
	WEST	OVER 50'	

"I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW, AND IN COMPLIANCE WITH THE ABOVE REFERENCED CODES FOR THE STATE OF ARKANSAS."

11 BOLLARD DETAIL
½" = 1'-0"

‹ DT11C010 ›

16 VICINITY MAP
N.T.S.

17 SITE DEVELOPMENT PLAN
1"=100'

Revisions

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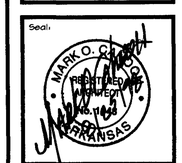
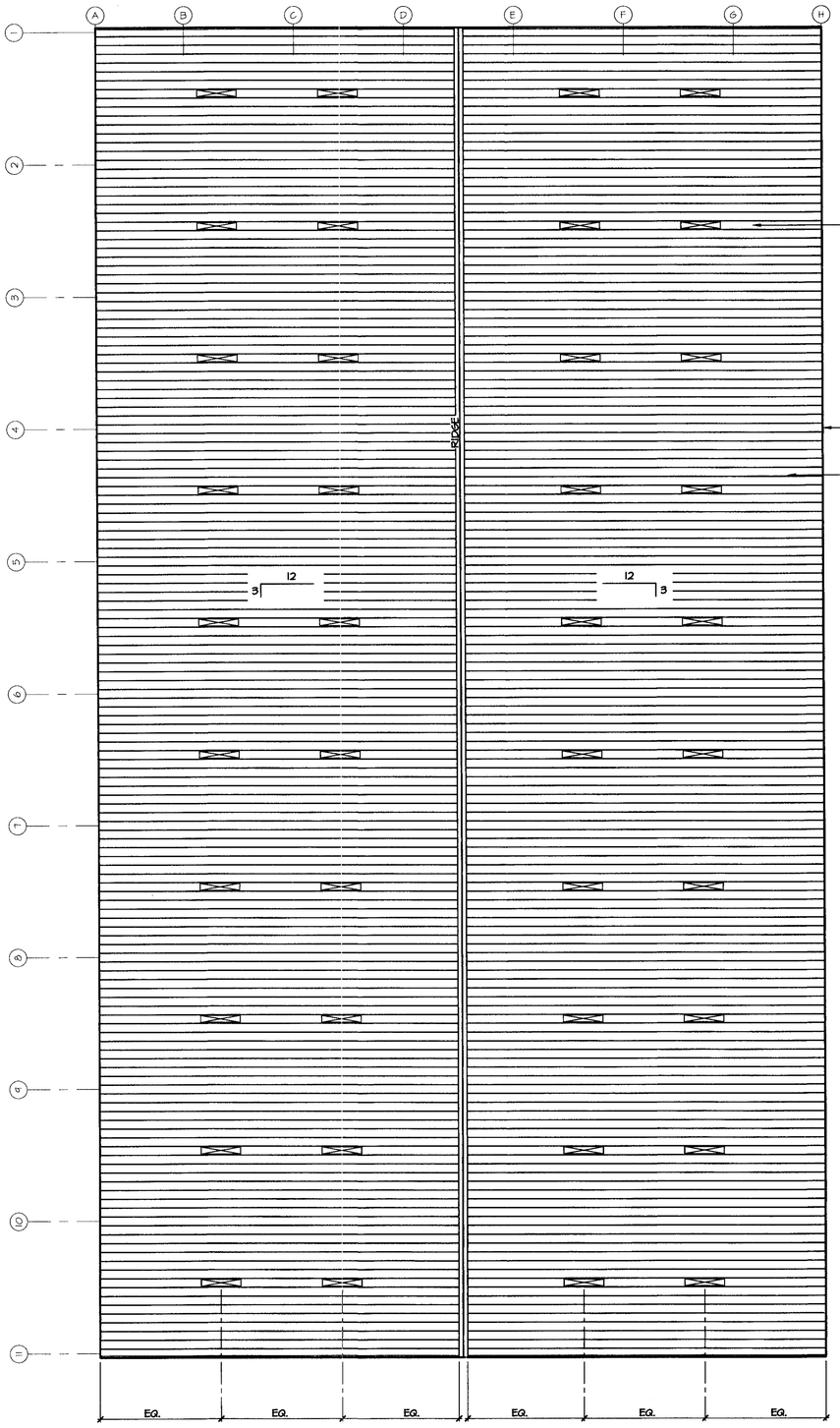
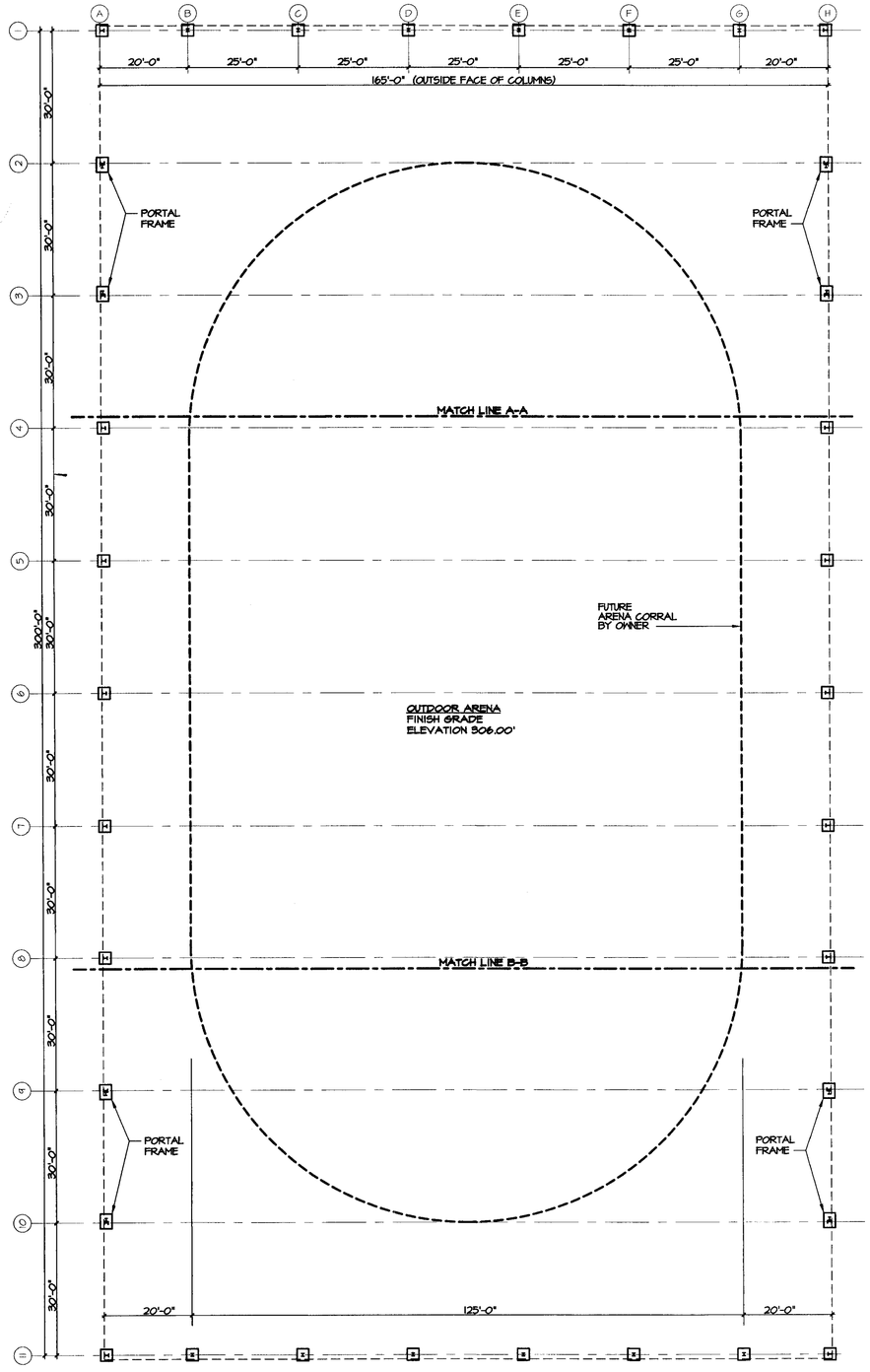


Sheet Name	SITE PLAN
Project No.	9711
Date:	08-14-9
Drawn By	
File No.	9711
Sheet No.	C1

Tue Aug 25 08:59:16 1998



ROOF PLAN OUTDOOR ARENA
16
1/16" = 1'-0"



NOTE:
PROVIDE EXPANDABLE ENDWALL MAINFRAMES BOTH ENDS THIS BUILDING

FLOOR PLAN OUTDOOR ARENA
19
1/16" = 1'-0" 61,250 SQ. FT.

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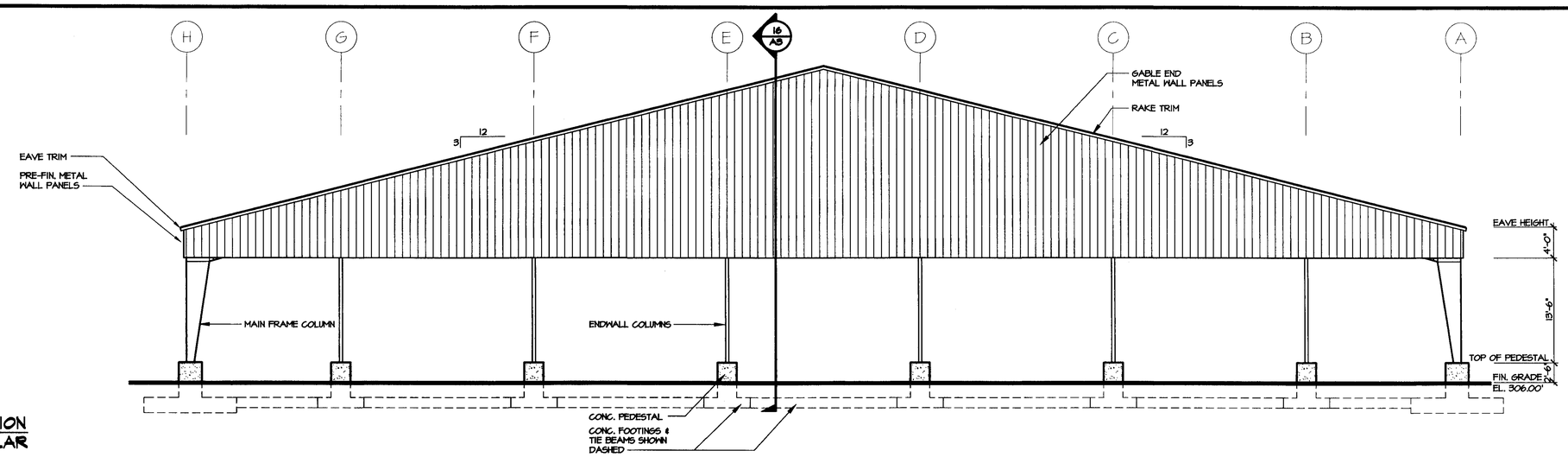
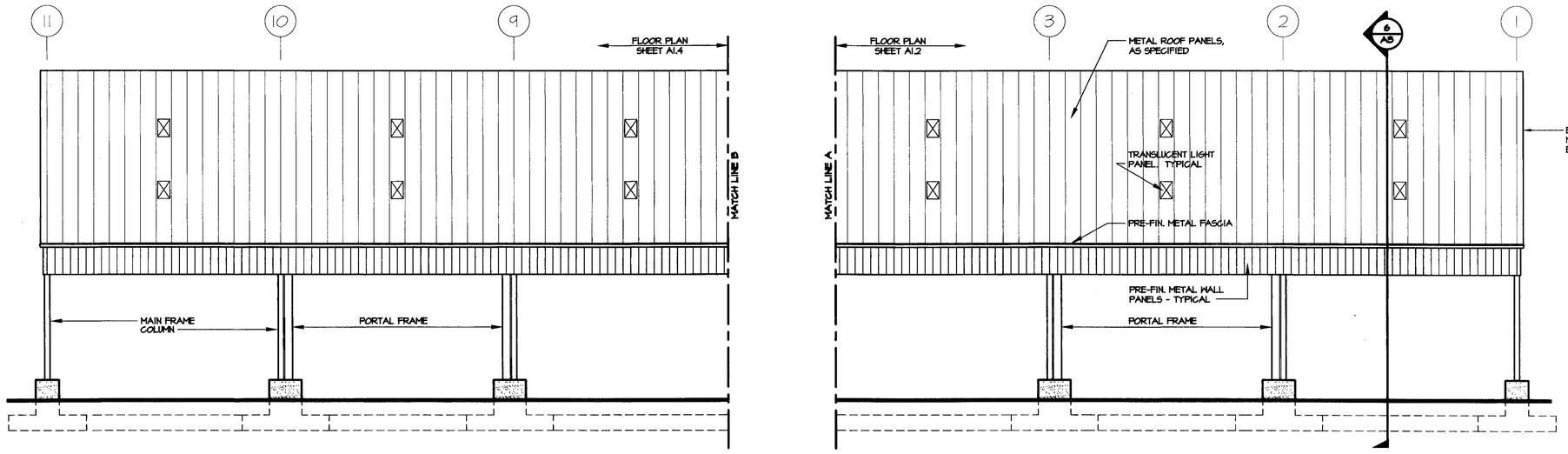
Seal:
MARK O. CAHOON
REGISTERED ARCHITECT
No. 1348
ARKANSAS
8/25/98

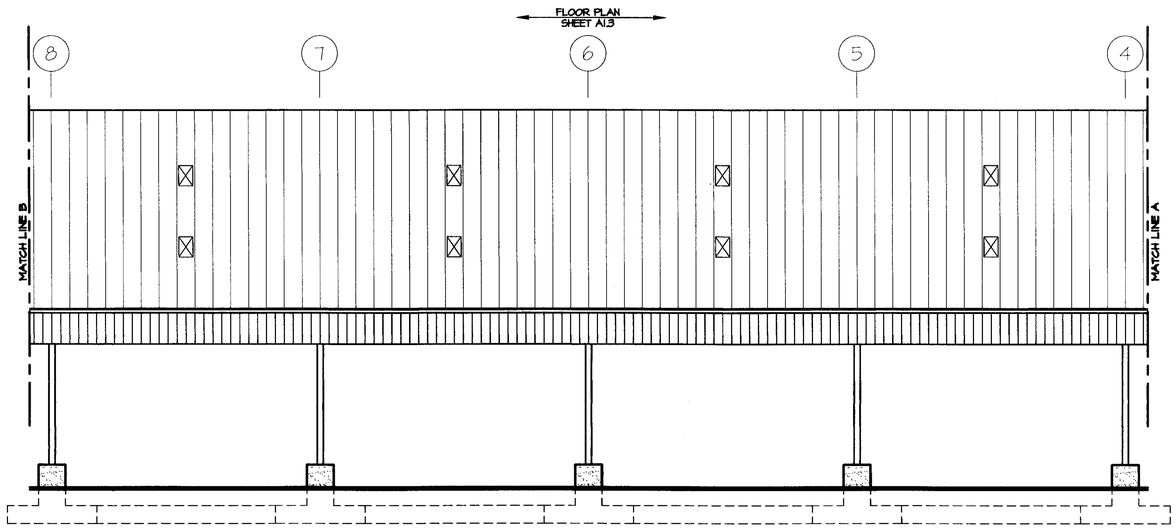
Sheet Name: FLOOR PLAN	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 9711A010
Sheet No.: A1	

Thu Aug 27 09:41:29 1998



1 OUTDOOR ARENA- NORTH ELEVATION
1/8" = 1'-0" SOUTH END SIMILAR





16 OUTDOOR ARENA - EAST ELEVATION
1/8" = 1'-0" WEST END SIMILAR

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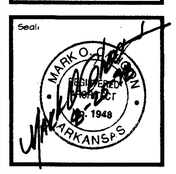

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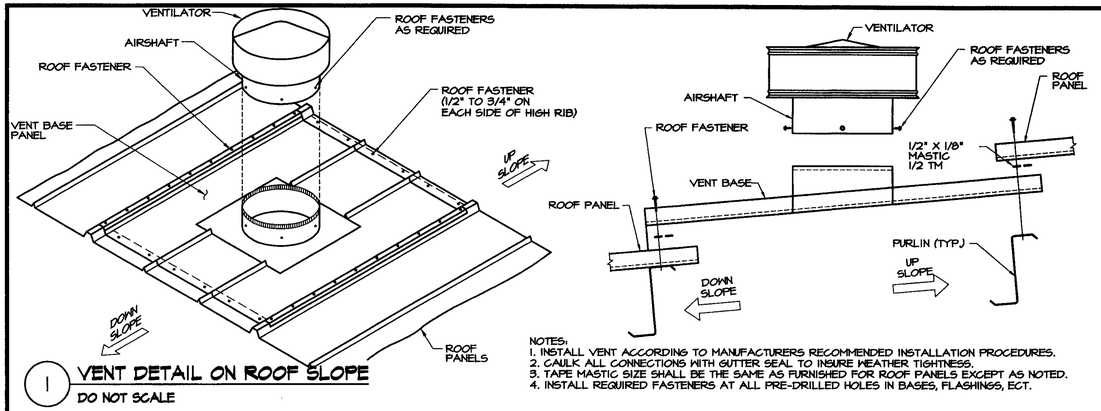
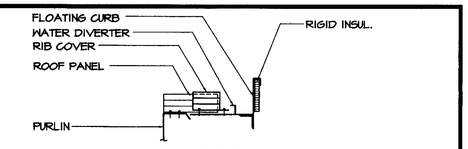
Project No. 9711	Date: 08-14-98
Drawn By	File No. 9711A020
Sheet No. A2	

Thu Aug 27 09:43:45 1998

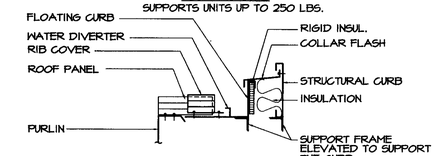


NOTES:
1. INSTALL VENT ACCORDING TO MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES.
2. CAULK ALL CONNECTIONS WITH GUTTER SEAL TO INSURE WEATHER TIGHTNESS.
3. TAPE MASTIC SIZE SHALL BE THE SAME AS FURNISHED FOR ROOF PANELS EXCEPT AS NOTED.
4. INSTALL REQUIRED FASTENERS AT ALL PRE-DRILLED HOLES IN BASES, FLASHINGS, ECT.

1 VENT DETAIL ON ROOF SLOPE
DO NOT SCALE

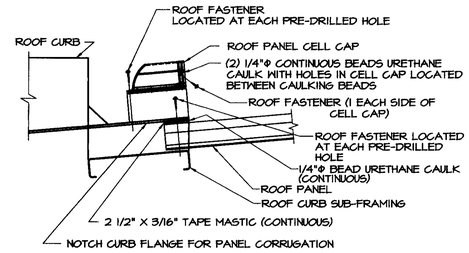


FLOATING CURB
SUPPORTS UNITS UP TO 250 LBS.

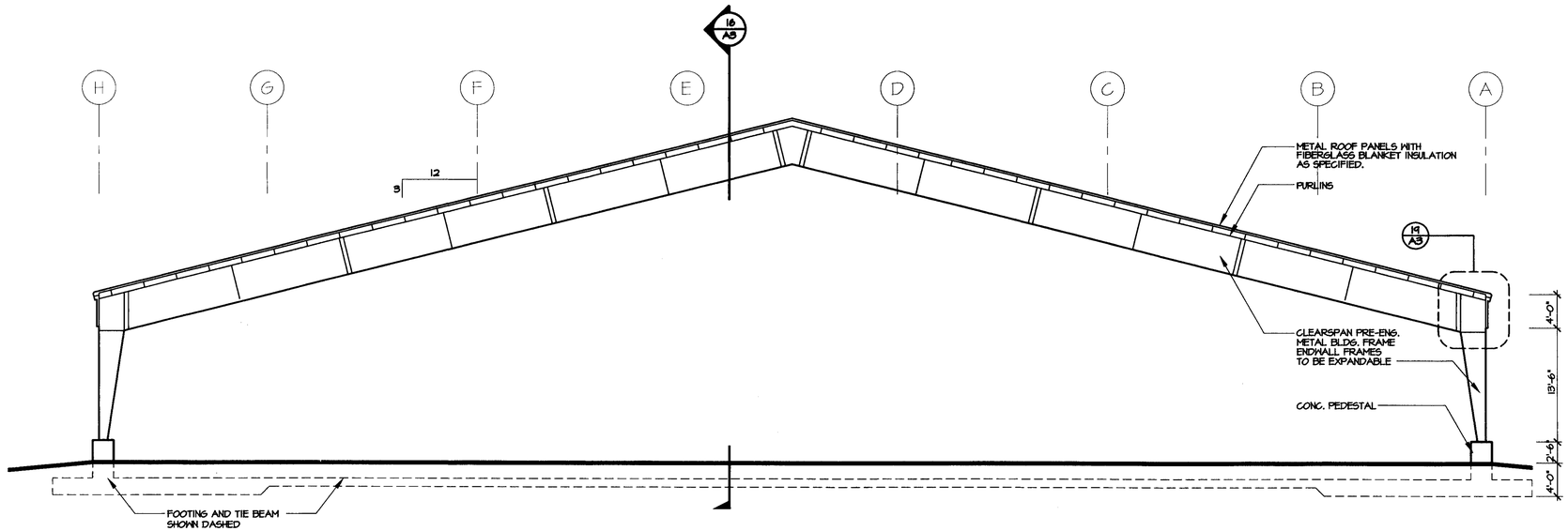


STRUCTURAL CURB
SUPPORTS UNITS FROM 250 LBS. TO 1400 LBS. FOR UNITS OVER 1400 LBS. PLEASE CONTACT ARCHITECT

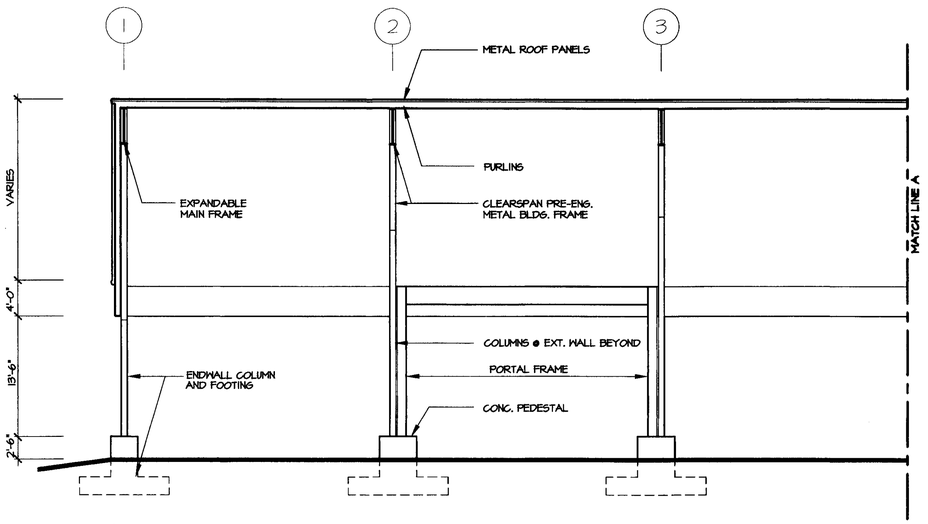
4 ROOF CURB DETAILS
‹ CURBDET ›



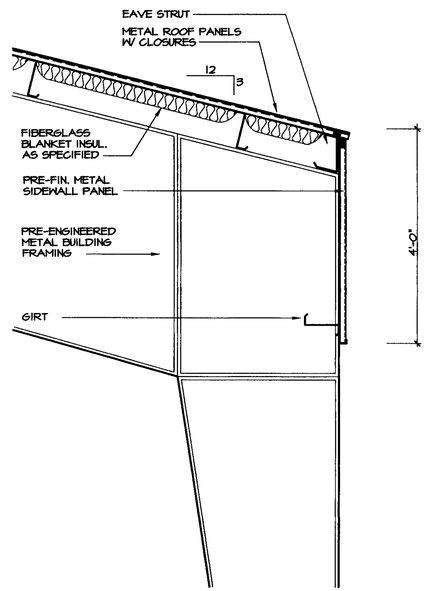
10 DETAIL AT UPSLOPE CURB EDGE
DO NOT SCALE
‹ CR16SA ›



6 OUTDOOR ARENA- BUILDING SECTION
1/8" = 1'-0"

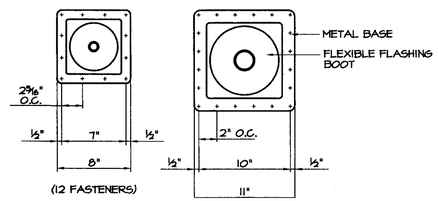


16 OUTDOOR ARENA- PARTIAL BUILDING SECTION
1/8" = 1'-0"



19 WALL SECTION @ COLUMN
3/4"=1'-0"

‹M520A042›



15 SQUARE BASE PIPE FLASHING
DO NOT SCALE
‹ FP02AA ›

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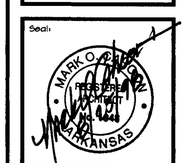

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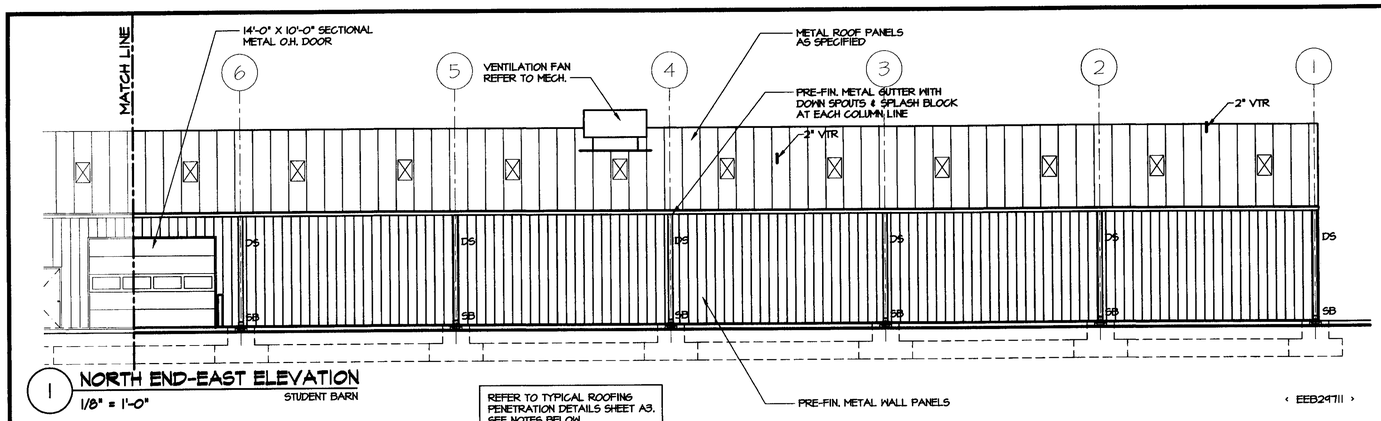
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 9711A030

Sheet No.: **A3**

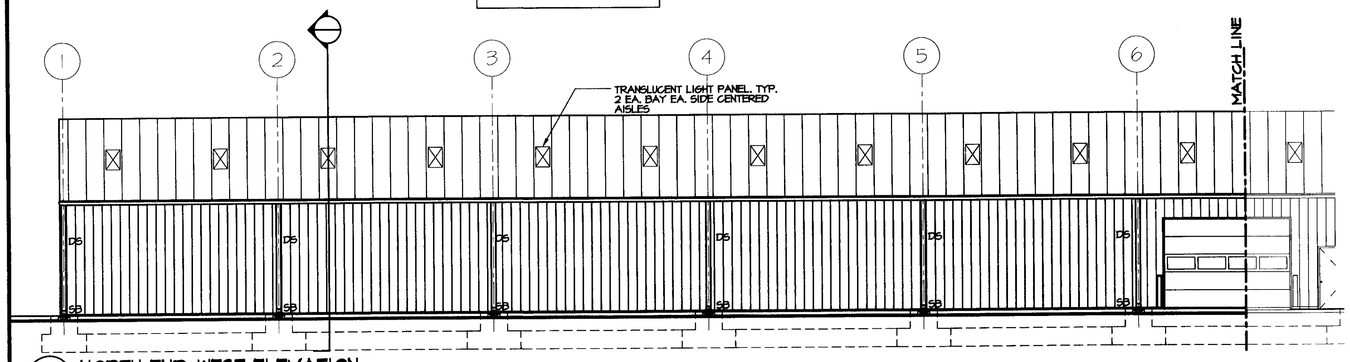
Thu Aug 27 09:44:55 1998



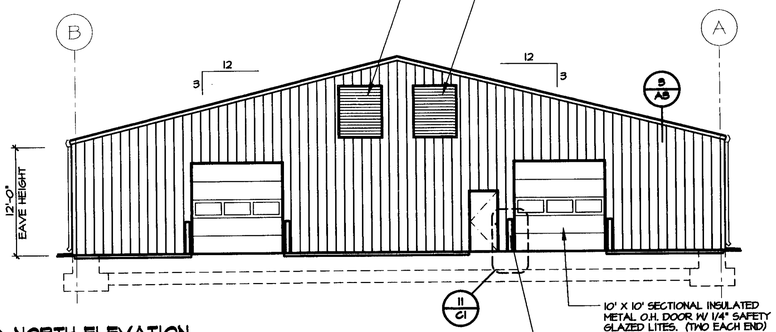
1 NORTH END-EAST ELEVATION
1/8" = 1'-0" STUDENT BARN

REFER TO TYPICAL ROOFING PENETRATION DETAILS SHEET A3. SEE NOTES BELOW.

‹ EEB2471I ›

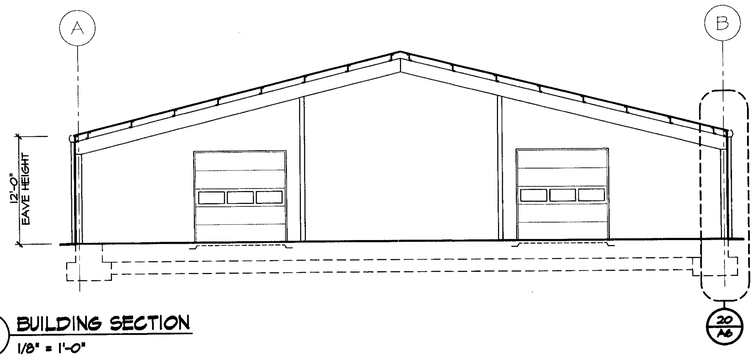


6 NORTH END-WEST ELEVATION
1/8" = 1'-0" STUDENT BARN



11 NORTH ELEVATION
1/8" = 1'-0" STUDENT BARN

‹ ENB1971I ›

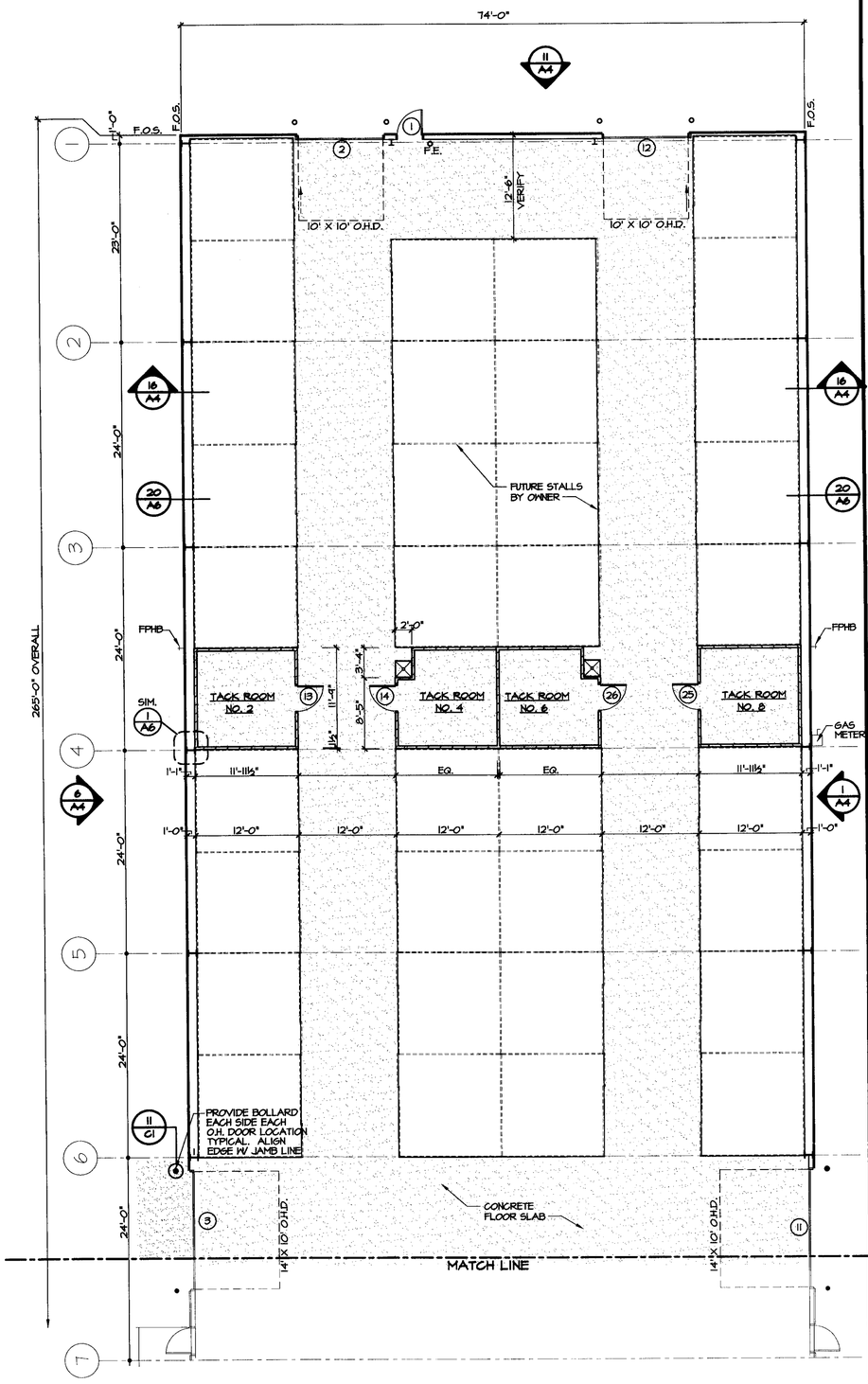


16 BUILDING SECTION
1/8" = 1'-0"

‹ BSB1971I ›

NOTES:

1. PREFINISHED METAL ROOF PANELS AND WALL PANELS SHALL BE PROVIDED BY THE SAME MANUFACTURER AS PRE-ENGINEERED STEEL BUILDING FRAMES.
2. A SINGLE COMMON STYLE AND CONSTRUCTION OF ROOF PANELS AND WALL PANELS SHALL BE PROVIDED FOR ALL SEPARATE BUILDINGS UNDER THIS CONTRACT. REFER TO SPECIFICATIONS.
3. REFER TO ROOFING DETAILS ON SHEET A3 FOR TYPICAL CONDITIONS AT ROOF PENETRATIONS. SUBMIT INSTALLATION DETAILS FOR APPROVAL BY ARCHITECT.



19 TYPICAL FLOOR PLAN-NORTH END
1/8" = 1'-0" STUDENT BARN: 19,000 ±

NOTE: ALL FIRE EXTINGUISHERS TO BE MOUNTED HANDICAP ACCESSIBLE (MAXIMUM 48" A.F.F. TO HANDLE)

‹ FPB2471I ›

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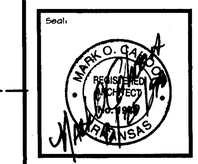
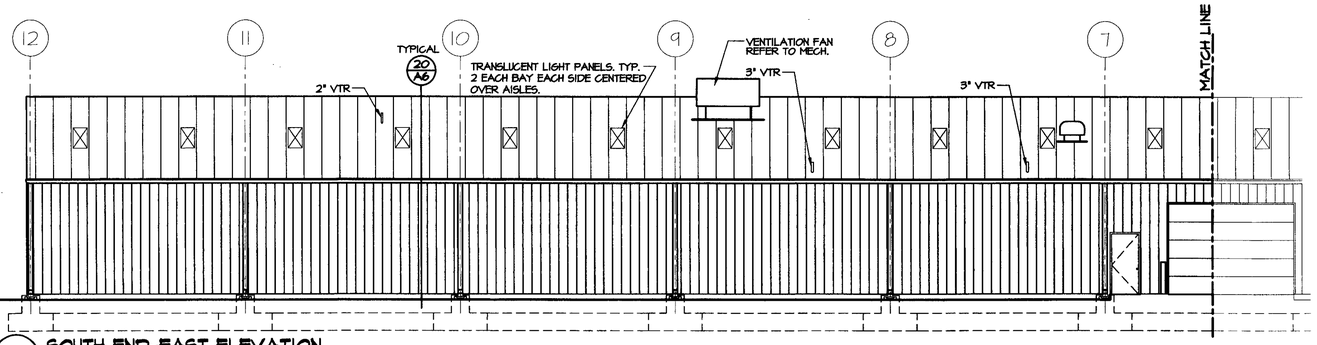
Seal:



Sheet Name	
FLOOR PLAN	
Project No. 9711	Date: 08-14-98
Drawn By	File No. 9711A040
Sheet No. A4	

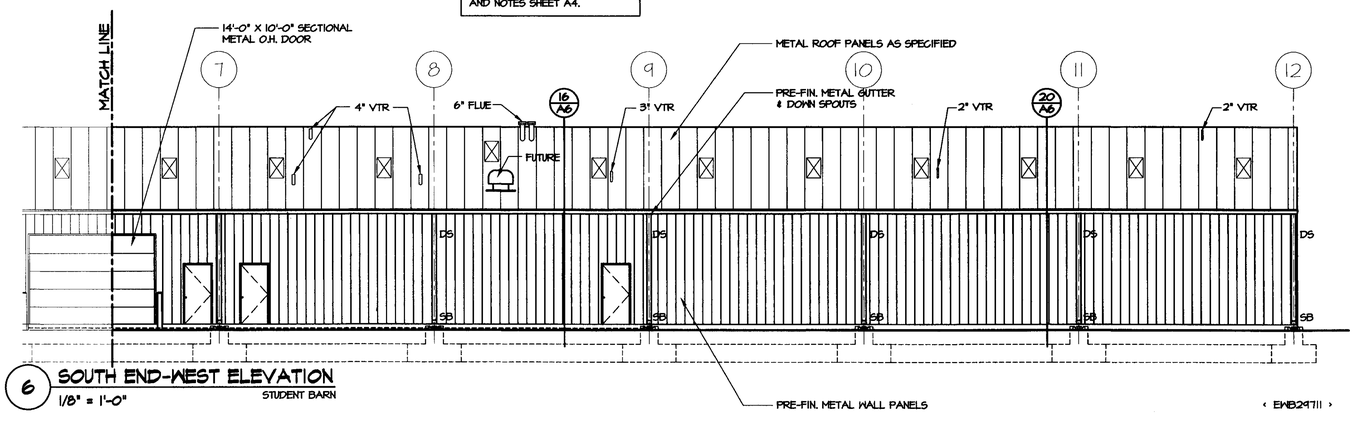
Thu Aug 27 09:45:49 1998



1 **SOUTH END-EAST ELEVATION**
1/8" = 1'-0" STUDENT BARN

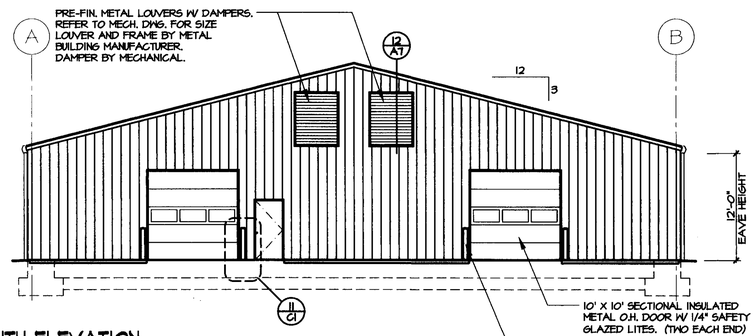
REFER TO TYPICAL ROOFING PENETRATION DETAILS SHEET A3 AND NOTES SHEET A4.

‹ EEB1971I ›



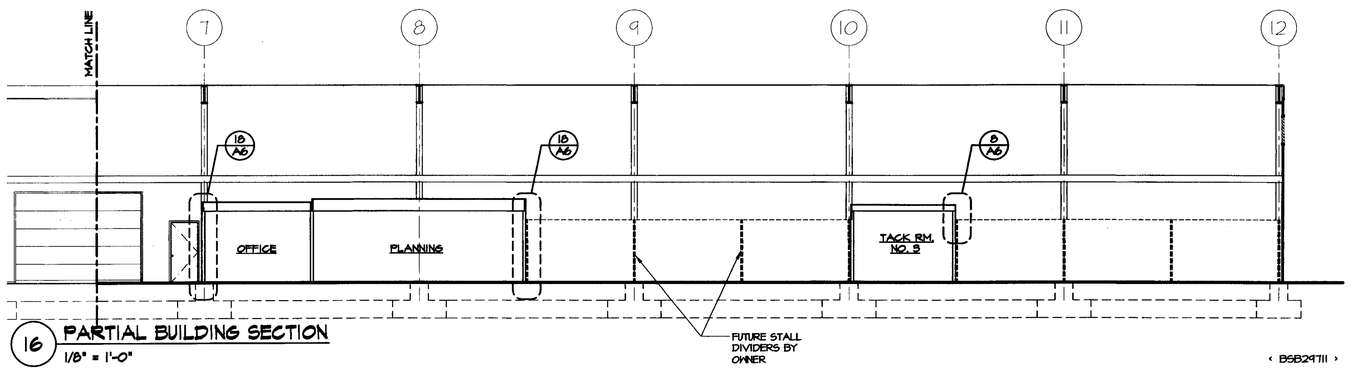
6 **SOUTH END-WEST ELEVATION**
1/8" = 1'-0" STUDENT BARN

‹ EWB2971I ›



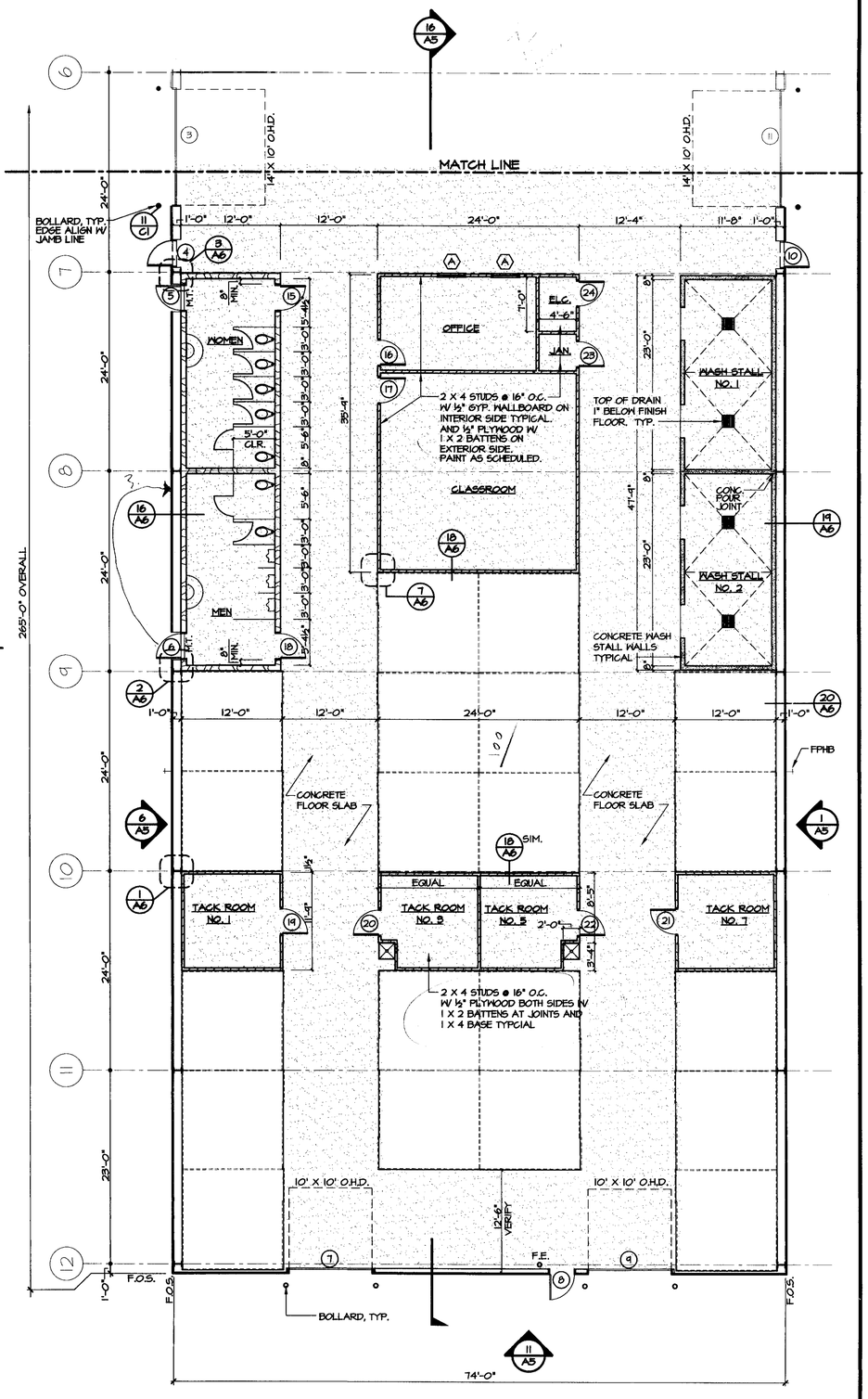
11 **SOUTH ELEVATION**
1/8" = 1'-0" STUDENT BARN

‹ ENB1971I ›



16 **PARTIAL BUILDING SECTION**
1/8" = 1'-0"

‹ BSB2971I ›



19 **FLOOR PLAN- SOUTH END**
1/8" = 1'-0" STUDENT BARN: 19,000 ±

‹ FPB1971I ›

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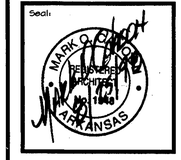
3168

Seal:



Sheet Name: FLOOR PLAN	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 9711A050
Sheet No.: A5	

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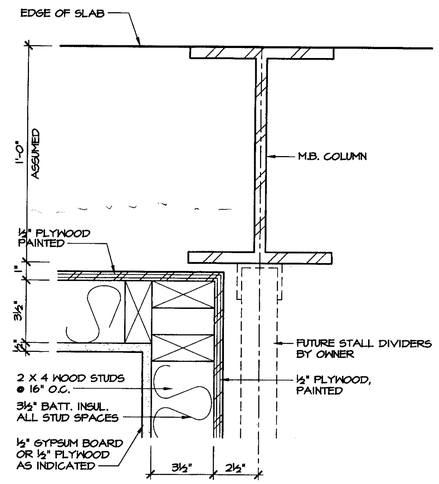
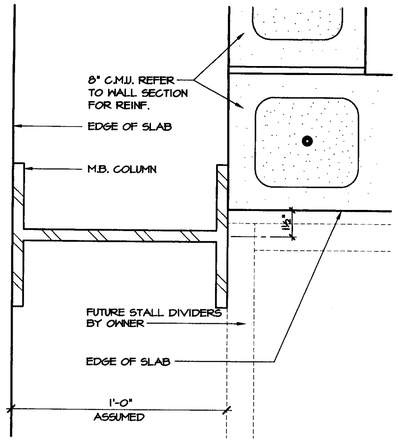


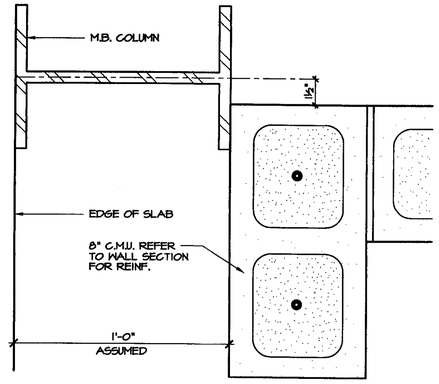
1 COLUMN DETAIL
3" = 1'-0"

‹DT01A060›



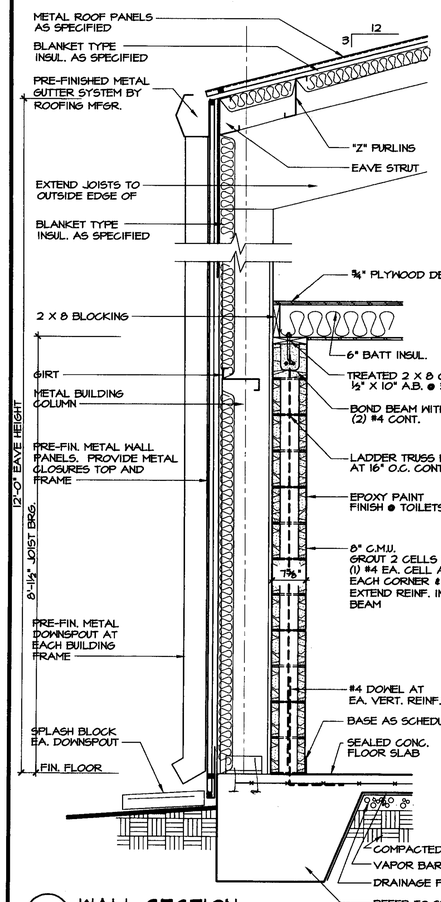
2 COLUMN DETAIL
3" = 1'-0"

‹DT02A060›



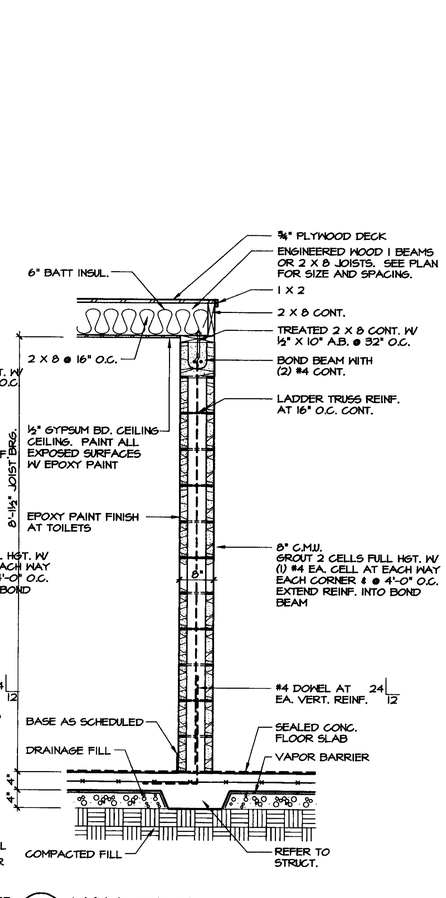
3 COLUMN DETAIL
3" = 1'-0"

‹DT03A060›



16 WALL SECTION
¾"=1'-0"

‹WS16A060›

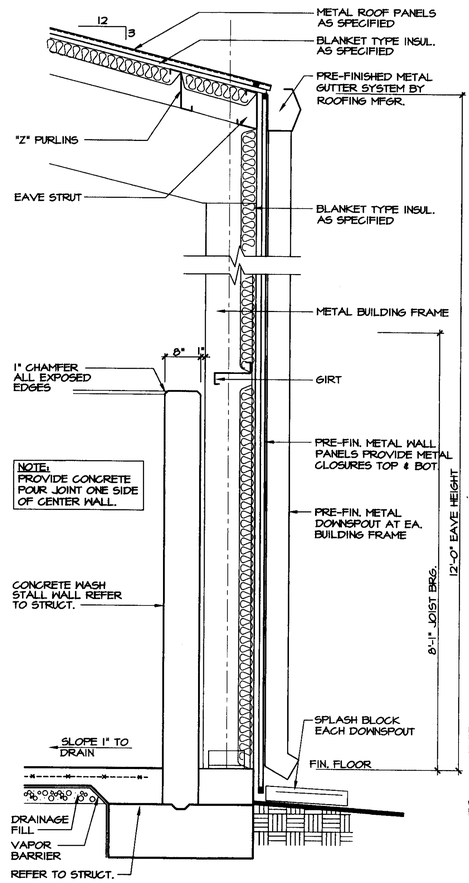


17 WALL DETAIL
¾"=1'-0"

‹WS17A060›

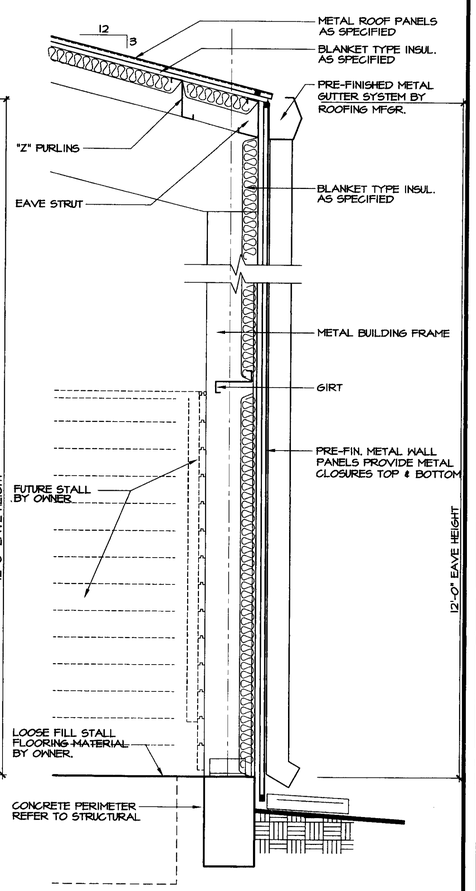
18 WALL/ FRAMING DETAIL
¾"=1'-0"

‹WS18A060›



19 WALL SECTION
¾"=1'-0"

‹WS19A060›



20 WALL SECTION
¾"=1'-0"

‹WS20A060›

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Revisions

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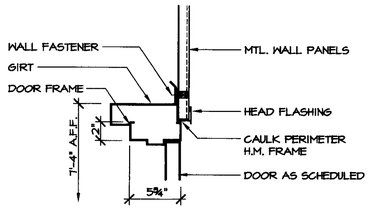
Seal:

MARK O. CAHOON
REGISTERED ARCHITECT
No. 1[illegible]
ARKANSAS

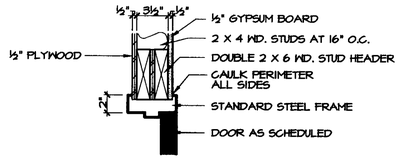
Sheet Name	SECTIONS PLAN	
Project No.	9711	Date: 08-14-98
Drawn By		File No. 9711A060
Sheet No.	A6	

DOOR SCHEDULE

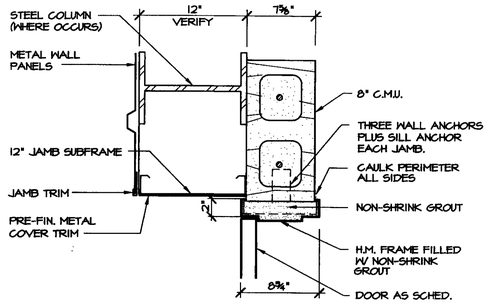
MARK	DOOR/OPNG. SIZE	MATERIALS	FINISH	ELEV.	GLAZ.	LABEL	FRAME MATERIALS	FRAME ELEV.	FRAME HEAD	FRAME JAMB	FRAME THR.	HDW.	REMARKS
		DOOR (DETAILS THIS SHT.)					FRAME (DETAILS THIS SHT.)						
1	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	NONE	H.M.	1	1	6		1	
2	10'-0" x 10'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
3	10'-0" x 14'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
4	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	1	6		1	
5	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	1	6		2	
6	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	1	6		2	
7	10'-0" x 10'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
8	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	1	6		1	
9	10'-0" x 10'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
10	3'-0" x 6'-8" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	1	6		1	
11	10'-0" x 14'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
12	10'-0" x 10'-0" x 1-¾"	H.M.	PAINT	B	YES	-	H.M.	-	II	16		5	INSUL. O.H. DOOR
13	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
14	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
15	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	-	3		4	DETAILS SIMILAR
16	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
17	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
18	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	-	3		4	DETAILS SIMILAR
19	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
20	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
21	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
22	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
23	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
24	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
25	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	
26	3'-0" x 7'-0" x 1-¾"	H.M.	PAINT	A	-	-	H.M.	1	2	7		3	



1 DOOR HEAD
1½"=1'-0" ‹DT01A070›

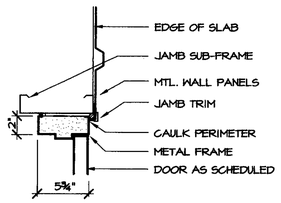


2 INT. DOOR FRAME - HEAD
1½"=1'-0" ‹DT02A070›

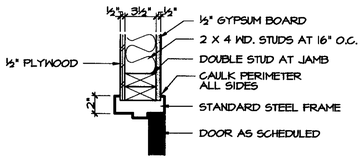


HEAD SIMILAR

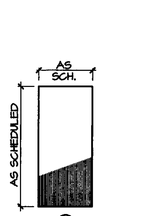
3 DOOR JAMB
1½"=1'-0" ‹DT03A070›



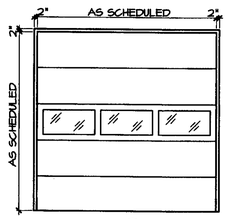
6 DOOR JAMB
1½"=1'-0" ‹DT06A070›



7 INT. DOOR FRAME - JAMB
1½"=1'-0" ‹DT08A070›

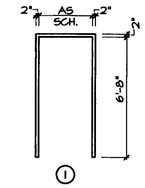


A
HOLLOW METAL INSULATED

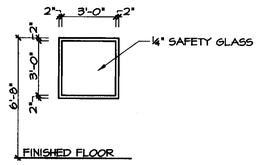


B
OVERHEAD DOOR INSULATED W/ VIEW LITES. MANUAL OPERATION & DOOR BOTTOM SEAL

8 DOOR ELEVATIONS
¼"=1'-0"

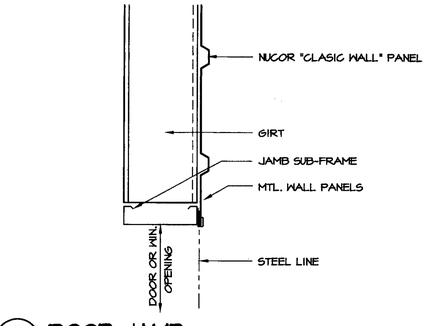


I
HOLLOW METAL FRAME

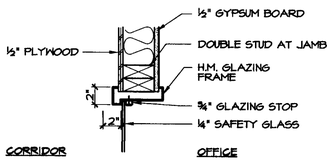


A
HOLLOW METAL FRAME

9 FRAME ELEVATIONS
¼"=1'-0" ‹ DRELEV ›



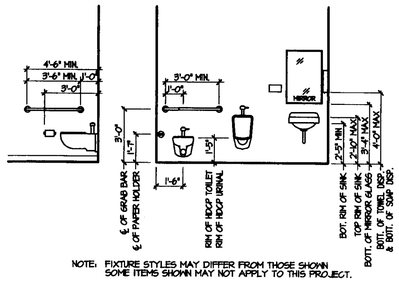
11 DOOR JAMB
1½"=1'-0" ‹ DT11A070 ›



12 INTERIOR GLAZING FRAME
1½"=1'-0" ‹DT12A070›

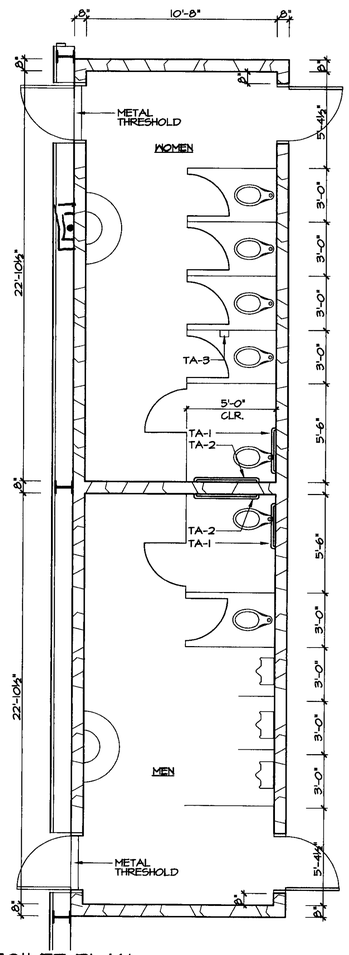
TOILET ACCESSORIES SCHEDULE
(SEE SPECIFICATIONS)

TA-1 GRAB BAR 36"
TA-2 GRAB BAR 42"
ALL OTHER ACCESSORIES OWNER SUPPLIES OWNER INSTALLED



NOTE: FIXTURE STYLES MAY DIFFER FROM THOSE SHOWN SOME ITEMS SHOWN MAY NOT APPLY TO THIS PROJECT.

19 ACCESSIBLE TOILET HEIGHTS
1/4" = 1'-0" ‹ HDCPTOIL ›



20 TOILET PLAN
¼"=1'-0" ‹ FPQ1A070 ›

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Revisions

EQUITATION FACILITY
STUDENT BARN AND ARENA
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

Seal:

MARK O. CAHOON REGISTERED ARCHITECT No. 823 ARKANSAS

Sheet Name: DOOR DETAILS	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 9711A070
Sheet No.: A7	

Thu Aug 27 09:50:10 1998

GENERAL NOTES

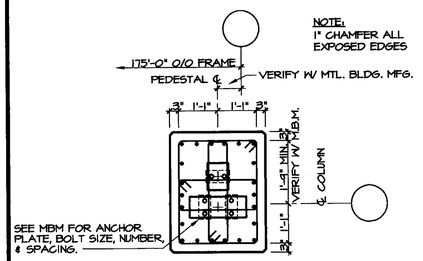
In case of conflict between the General Notes below and the specifications the more rigid requirements shall govern unless amended in writing by the Engineer.

Site selection, evaluation, and preparation is not the responsibility of the Engineer.

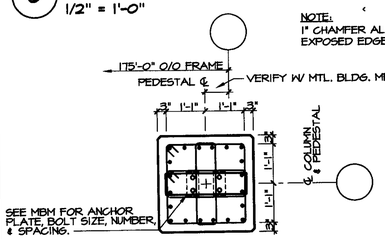
ACI specifications shall govern all phases of fabrication and construction.

DESIGN DATA

1. Design Codes - (All latest editions unless noted)
   - -American Concrete Institute (ACI)
   - -American Institute of Steel Construction (AISC)
   - -American Welding Society (AWS)
   - -American Iron and Steel Institute
   - Specifications for Design of Cold Formed Steel Structural Members
   - -Southern Standard Building Code (SSBC) - 1994 Edition
   - -American Society of Civil Engineers
   - (ASCE 7-88 formerly ANSI A58.1-1982)
   - Minimum Design Loads for Buildings and Other Structures
2. Material Specifications and Design Stresses
   - -Anchor Bolts ASTM A36
   - -Embedded Steel
   - -Cast-in-place Concrete: all concrete shall have a minimum compressive strength of at least f'c = 3,000 psi at 28 days. All concrete exposed to weather shall have 5%% ± 1½% air entrainment. Total entrapped air shall not exceed 3% for interior slabs with steel trowel finish.
   - -Reinforcing Steel ASTM A615, Grade 60
   - -Welded Plain Wire Fabric 6x6/W2.9xW2.9 SHEET MESH ONLY



6 PORTAL FRAME PEDESTAL
1/2" = 1'-0"



11 PLAN @ PEDESTAL
1/2" = 1'-0"

16 PERIMETER @ TIE BEAM
1/2" = 1'-0"

‹ DT16 ›

GENERAL NOTES (CONTINUED)

3. Design Soil Bearing Pressures
   - -Footings on natural soils are designed for an assumed total contact bearing pressure of 2,000 psf at bottom of footings.
   - -Footings on compacted engineered fill are designed for a maximum soil bearing pressure of 2,000 psf. (FIELD VERIFY)
   - -If the soil at the footing bearing elevations shown is of questionable bearing value, the Engineer or Architect shall be notified immediately.
   - -After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory as specified.
4. Design Loads
   - -Column reactions as provided by pre-engineered building mfg. Nucor Building systems, 305 Industrial Parkway, Waterloo, In.
   - -Seismic Zone 3 Z = 0.15, K = 1.33, CS = 0.14 max.
     I = 1.00, S = 1.50, C = 0.12 max.

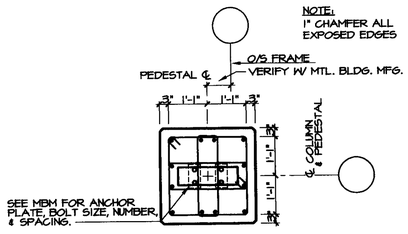
5. Seismic Foundation Design
   The foundations have been designed to resist seismic forces per the 1994 Standard Building Code in accordance with the requirements of Act 1100 of the 1991 Arkansas State Legislature. The required seismic design data is as follows:

SEISMIC ZONE PER ACT 1100 OF 1991 FOR THE STRUCTURE:	3
PEAK VELOCITY RELATED ACCELERATION Av (1607.1.5):	0.25
PEAK ACCELERATION Aa (1607.1.5):	0.25
SEISMIC HAZARD EXPOSURE GROUP (1607.1.6):	II
SEISMIC PERFORMANCE CATEGORY (1607.1.8):	D
SOIL PROFILE TYPE (1607.3.1):	S2
BASIC STRUCTURAL SYSTEM (1607.3.3):	MOMENT RESISTING FRAMES
SEISMIC RESISTING SYSTEM (1607.3.3):	ORDINARY FRAMES OF STEEL
RESPONSE MODIFICATION FACTOR R (1607.3.3):	4.5
DEFLECTION AMPLIFICATION FACTOR, Cd (1607.3.3):	4
ANALYSIS PROCEDURE UTILIZED (1607.4 OR 1607.5):	1607.4

Seismic structural design for metal building frames and components shall be performed by others.

GENERAL INFORMATION

1. In cases of discrepancies between dimensions and elevations between structural and architectural drawings, contractor shall coordinate with architect prior to fabrication and construction.
2. All columns shall be centered on grid lines unless noted otherwise.
3. All column footings shall be centered on columns unless noted otherwise.
4. All wall footings shall be centered on walls unless noted otherwise.
5. Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 at 12" o.c. each way centered.
6. Substitution of expansion anchors for embedded anchors shall not be permitted.
7. Back fill both sides of all foundation and retaining walls equally until low side is up to the finish grade. Do not back fill any walls until concrete has reached its specified 28-day compressive strength.
8. A 6-mil polyethylene film vapor barrier shall be placed below all interior slabs-on-grade.
9. Provide a 4" clean medium to coarse sand or gravel compacted drainage fill below all interior slabs-on-grade unless noted or detailed otherwise.
10. Contractor shall provide temporary guys and bracing as required during construction. Structure is not stable until all structural members connections, and decking are in place. See metal building manufacturer for special erection requirements.
11. Damaged areas of hotdip galvanizing on anchor bolts, plates, etc. shall be repaired with two (2) coats of cold spray galvanizing.



12 PLAN @ ENDWALL PEDESTAL
1/2" = 1'-0"

FOUNDATION NOTES

1. Spread footings shall bear at least 3'-4" below lowest adjacent finished grade on stiff undisturbed natural soil or properly compacted select fill with an allowable net bearing pressure of at least 2000 PSF.
2. Prior to placing fill, completely remove all organic containing soils, highly plastic soils, miscellaneous debris, roots, old foundations, slabs, walls, etc. and all buried tanks, vaults, manholes, etc. not specifically identified to remain from within ten feet of the building perimeter.
3. After stripping, the area within ten feet of the building perimeter shall be proof rolled and all soft zones shall be remarked or undercut and replaced with properly compacted low plasticity select fill.
4. All undercutting, site preparation, fill selection, back filling and compaction shall be performed in strict accordance with the soils engineer's recommendations. Refer to soils report prepared by Mid-Continent Laboratories, Inc. dated Nov. 14, 1997, included in contract specifications.
5. All spread footing excavations shall be inspected by the soils engineer or his representative to verify that the design net bearing capacity is attained.
6. All fill up to the top of the footing elevation within five feet of the building perimeter shall be compacted to at least 95% of modified proctor maximum dry density (ASTM D1557).
7. If old basements or other deep existing structures are discovered within ten feet of the building perimeter, notify architect immediately.

CAST-IN-PLACE CONCRETE

1. Arrangement and bending of reinforcing steel shall be in accordance with ACI detailing manual, latest edition.
2. Reinforcing steel shall be new and all bars shall be deformed.
3. Where reinforcing bars are shown continuous, lap bars 36-bar diameters or 24-bar diameters at tension or compression splices respectively (12" minimum).
   Splice tension ties with 125% tension capacity mechanical couplers.
   Do Not lap splice tension ties.
4. Provide suitable wire spacers, chairs, ties, etc., for supporting reinforcing steel in the proper position while placing concrete. Brick chairs are not acceptable.
5. Concrete protective covering for reinforcement at surfaces not exposed directly to the ground shall be 3/4" for slabs, joists, and walls and 1-1/2" for beam stirrups and column ties or spirals.
6. Concrete protective covering for reinforcement at surfaces which will be exposed to the weather or be in contact with the ground shall be 2" for bars larger than #5 and 1-1/2" for #5 bars and smaller. Provide 3" cover below and at ends of footing bars.
7. Location and sizes of openings, sleeves, etc., required for other trades must be verified by these trades before placing concrete.

PRE-ENGINEERED METAL BUILDING

1. The building manufacturer must be a current AISC member.
2. The building shall be a manufacturer's standard prefabricated metal structure of the approximate inside area shown, except as noted. Rigid frames shall be spaced as shown on the plans, but overall dimensions and construction details may vary to suit manufacturer's standard design. Minimum web thickness of rigid frames shall be 3/16".
3. The building shall be designed and fabricated according to AISC, MBMA, and AISI latest specifications. The dimensional tolerances outlined in the AWS code under workmanship and the tolerances applicable to roll form steel under the AISC "STANDARD MILL PRACTICE" section shall be required in the fabrication of the steel building frames.
4. The building frame shall be designed to limit the lateral deflection in inches to 0.0042 times the lower eave height for the governing basic wind speed of 70 mph.
5. A complete design analysis showing all calculations for the rigid frames, girts, purlins, and x-bracing for wind and zone 3 seismic loads and layout of anchor bolts and other embedded items shall be submitted for the approval with the shop drawings. Shop drawings shall include details of all main members, typical connections (showing bolt holes and welds), and erection drawings.
6. The building shall be designed to support all mechanical equipment including heaters, sprinklers, exhaust systems, service equipment, and all other such devices. Additional girts or purlins shall be placed in convenient locations for attachment of all mechanical equipment.
7. Metal building vertical bracing shall consist of portal frames at locations shown on plans. Metal building manufacturer shall coordinate location of all braces to minimize interference with architectural features. Rod or cable braces may not be substituted where portal frames are shown.
8. Combination design loads conditions shall comply with MBMA specifications.
9. Maximum purlin live load deflection shall not exceed SPAN/240.
10. Maximum live load deflection shall not exceed SPAN/360.
11. Maximum girt lateral deflection from wind or seismic loads shall not exceed SPAN/240 for girts providing lateral support for metal siding only.
12. Maximum building side sway (drift) from wind or seismic loads shall not exceed wall HEIGHT/240.
13. Metal building framing layout and members shown are suggested only. Manufacturer is responsible for coordinating requirements with owner and providing complete structural framing system designed by the manufacturer. Metal building manufacturer shall coordinate all dimensions, elevations, bracing and sizes and shapes of members with owner prior to fabrication and construction. All member connections and decking not specifically sized on drawings shall be designed and supplied by the metal building manufacturer.
14. Metal building manufacturer shall provide shop drawings & calculations, stamped by a Professional Structural Engineer registered in the state of Arkansas, for review prior to fabrication.

EXISTING CONSTRUCTION

1. Before fabrication and erection of any materials, field verify all existing elevations, dimensions, and other conditions as shown on the drawings and report any discrepancies to the Engineer or Architect at once.

ROOF FRAMING

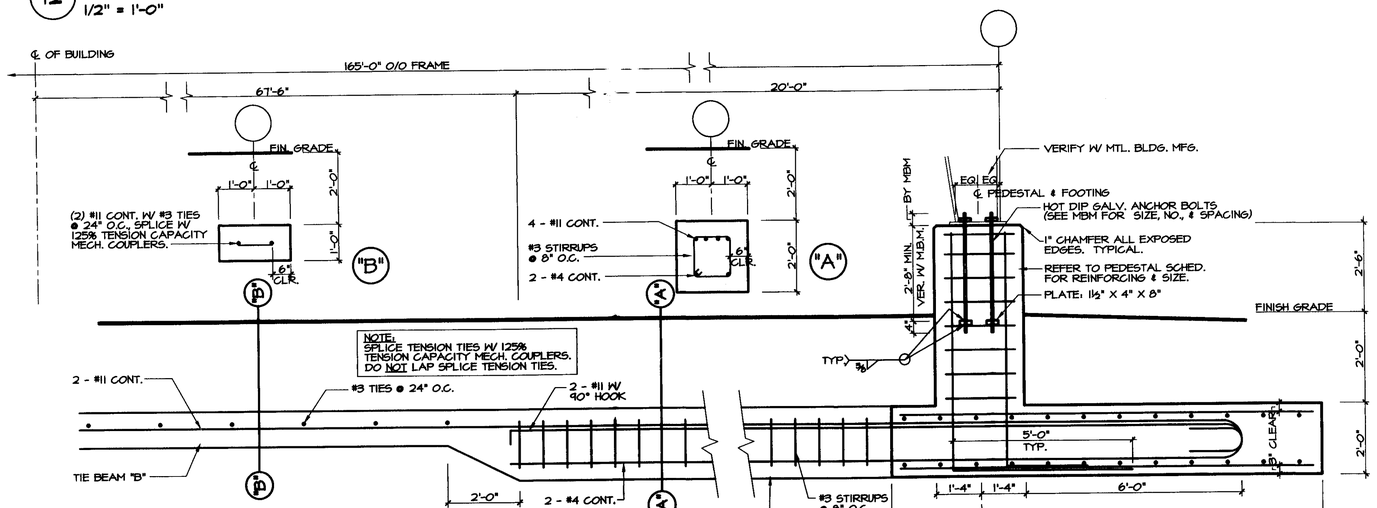
1. Roof framing structure including main frames, end wall framing and roof purlins shall meet the following requirements.
   - A.) All purlin bracing required for non diaphragm 5.5. roof sheets to be designed & furnished by building supplier.
   - B.) DESIGN LOADS:
     ROOF DEAD LOAD:
     Actual weight of roof plus hanging equipment, lights, etc. (4 psf min. collateral dead load. Total dead load used for design shall be at least 7 psf)
     ROOF LIVE LOAD:
     20 PSF (purlins and frames). Live load reductions for frames will not be allowed.
     WIND: 70 mph
     SEISMIC: ZONE 3
     CODES: 1994 Standard Building Code
     MBMA Metal Building Systems Manual (latest edition)

PAD FOOTING SCHEDULE

MARK	PAD SIZE	THICKNESS	REINFORCING	REMARKS
F1	12'-0" X 10'-0"	2'-0"	#8 @ 12" O.C.	EACH WAY TOP & BOTTOM
F2	12'-0" X 12'-0"	2'-0"	#8 @ 12" O.C.	EACH WAY TOP & BOTTOM
F3	8'-0" X 6'-0"	1'-4"	#7 @ 12" O.C.	EACH WAY TOP & BOTTOM
F4	6'-0" X 6'-0"	1'-4"	#6 @ 12" O.C.	EACH WAY TOP & BOTTOM
F5	5'-0" X 5'-0"	1'-4"	#6 @ 12" O.C.	EACH WAY TOP & BOTTOM

PEDESTAL SCHEDULE

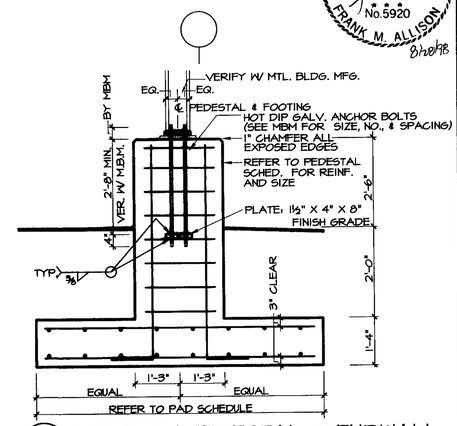
MARK	SIZE	VERT. REINFORCING	TIES
P1	2'-8" X 2'-8" ☐	20- #9	#4 TIES @ 8" O.C.
P2	2'-8" X 3'-4" MIN. ☐	22- #9	#4 TIES @ 8" O.C.
P3	2'-8" X 2'-8" ☐	12- #9	#4 TIES @ 8" O.C.
P4	1'-6" X 1'-6" ☐	8- #6	#4 TIES @ 8" O.C.



17 FOOTING/ PEDESTAL/ TIE BEAM
1/2" = 1'-0" TYPICAL INTERIOR MAINFRAME

NOTE:
TIE BEAM IS SYMETRICAL ABOUT ℄ OF BUILDING

‹ DT17 ›



20 FOOTING/ PEDESTAL @ ENDWALL
1/2" = 1'-0"

‹ DT20 ›

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8/20/98

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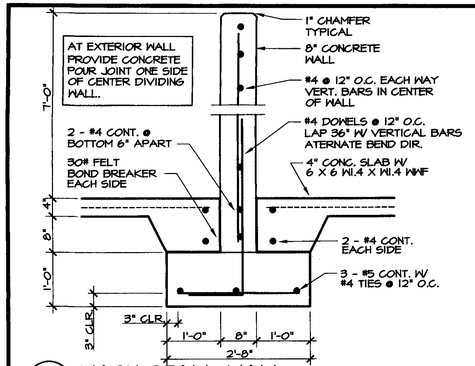
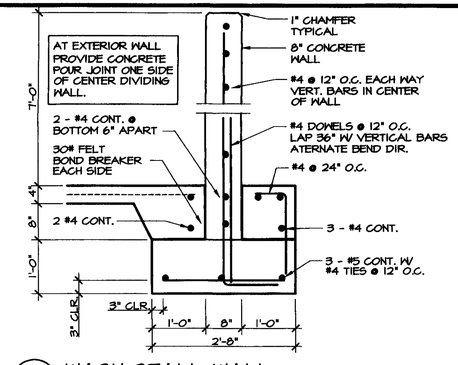
ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS ENGINEER

Sheet Name: STRUCTURAL DETAILS	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 97115011
Sheet No.: S1	

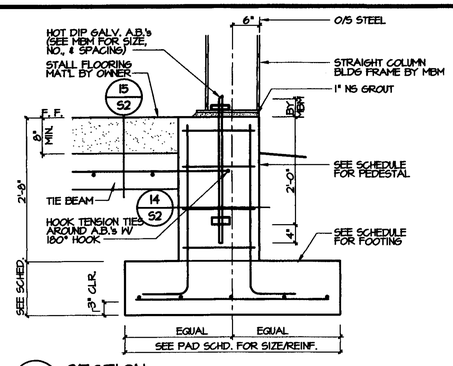
Thu Aug 27 09:51:37 1998



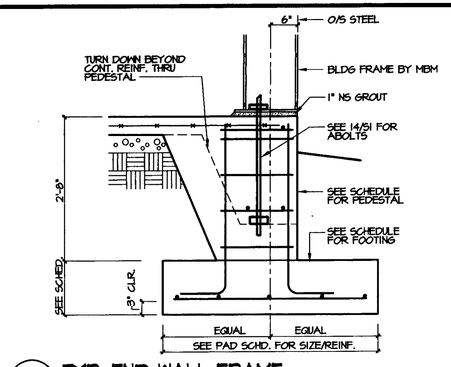
1 WASH STALL WALL
3/4"=1'-0"
‹DT015020›



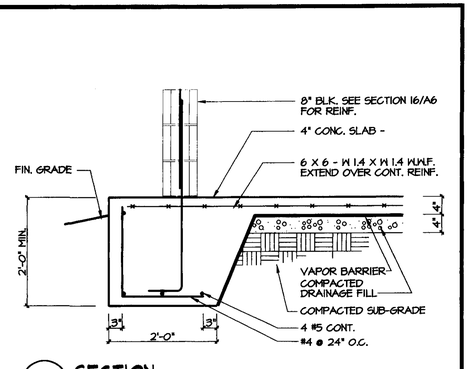
2 WASH STALL WALL
3/4"=1'-0"
‹DT025020›



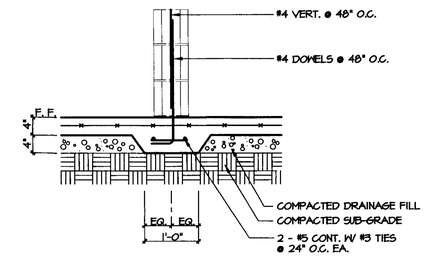
3 SECTION
3/4" = 1'-0"
‹DT035020›



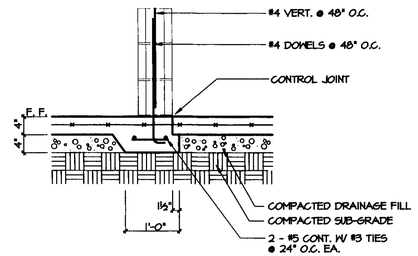
4 TYP. END WALL FRAME
3/4" = 1'-0"
‹DT045020›



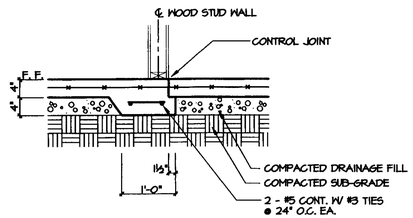
5 SECTION
3/4" = 1'-0"
‹DT055020›



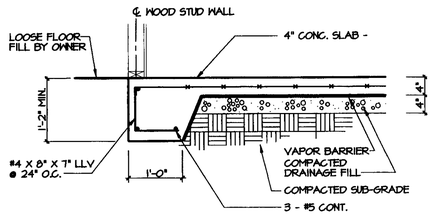
6 THICKENED SLAB
3/4" = 1'-0"
‹DT065020›



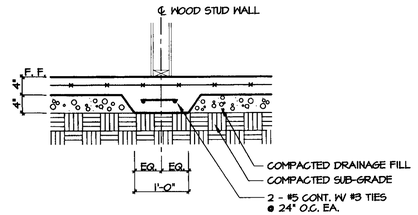
7 THICKENED SLAB @ C.J.
3/4" = 1'-0"
‹DT075020›



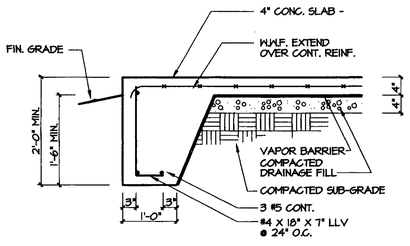
8 THICKEND SLAB @ C.J.
3/4" = 1'-0"
‹DT085020›



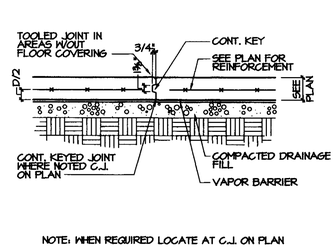
9 INTERIOR SLAB EDGE
3/4" = 1'-0"
‹DT095020›



10 THICKEND SLAB
3/4" = 1'-0"
‹DT105020›

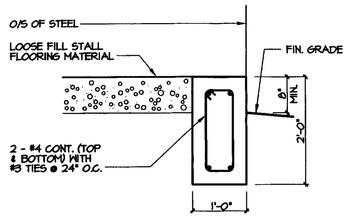


11 EXTERIOR SLAB EDGE
3/4" = 1'-0"
‹DT115020›

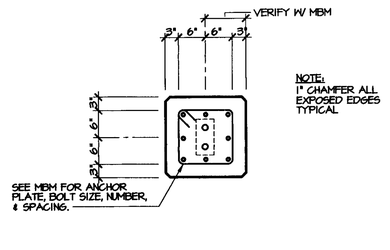


NOTE: WHEN REQUIRED LOCATE AT C.J. ON PLAN

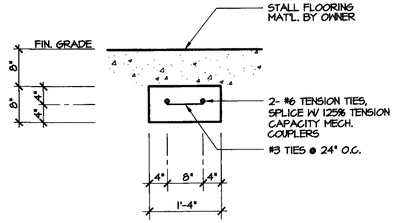
12 CONTROL JOINT
3/4" = 1'-0"
‹DT125020›



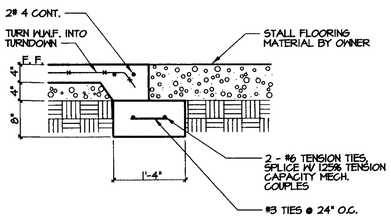
13 SECTION
3/4" = 1'-0"
‹DT135020›



14 PLAN @ PEDESTAL
3/4" = 1'-0"
‹DT145020›



15 SECTION
3/4" = 1'-0"
‹DT155020›



16 SECTION
3/4" = 1'-0"
‹DT165020›

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FRANK M. ALLISON
8/28/98

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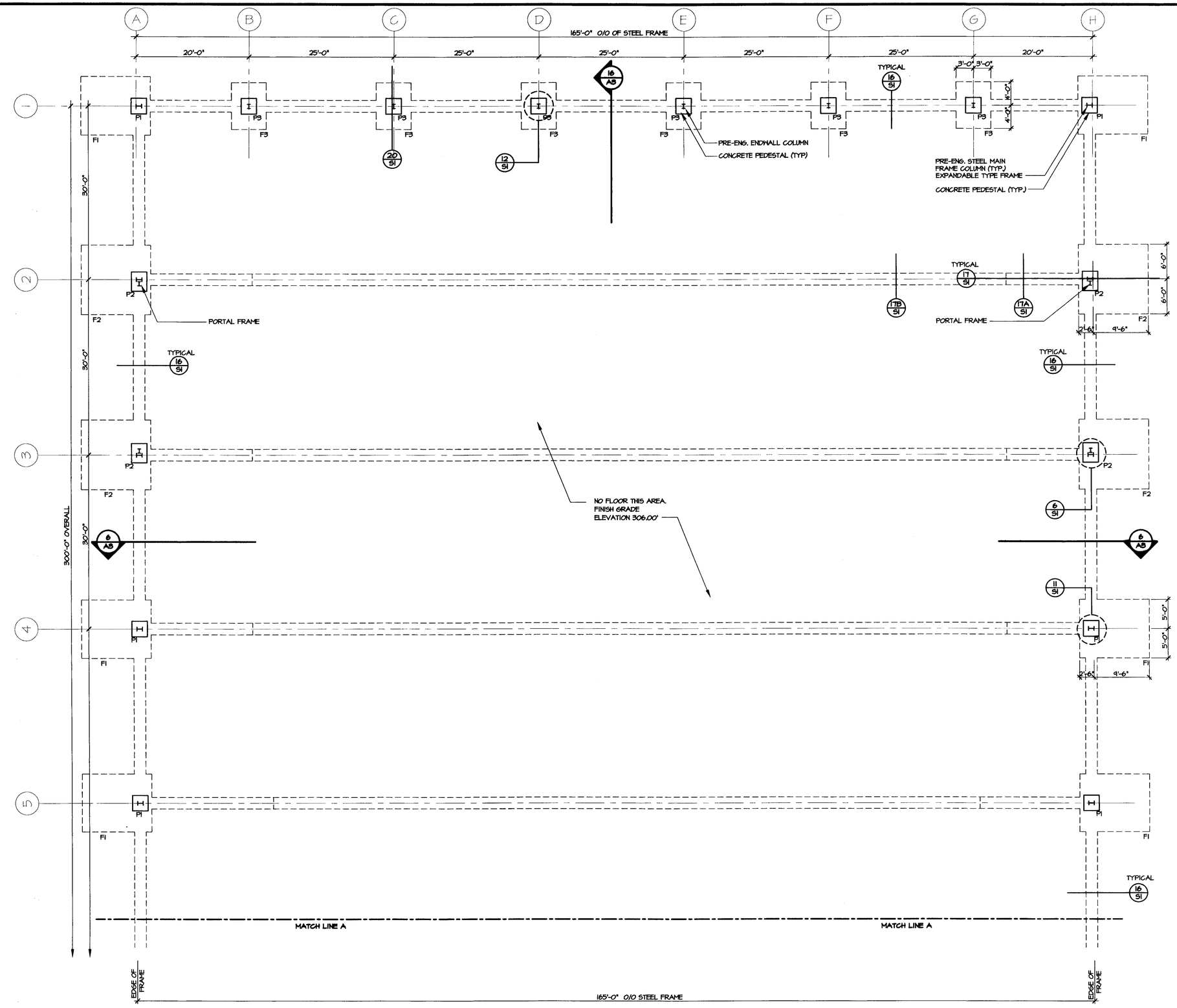
ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS - ENGINEER

Sheet Name: FOUNDATION PLAN

Project No.	Date:
9711	08-14-98
Drawn By	File No.
	9711A012

Sheet No.
S2

Tue Aug 18 09:43:06 1998



REFER TO SHEET S1.1 FOR FOOTING SCHEDULE

16 FOUNDATION PLAN- NORTH END

1/8" = 1'-0" OUTDOOR ARENA: 61,250#

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No. 5920
FRANK M. ALLISON
8/28/98

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ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS - ENGINEER

Sheet Name: FOUNDATION PLAN	
Project No.: 9711	Date: 08-14-98
Drawn By:	File No.: 97115013
Sheet No.: S3	

Thu Aug 27 09:52:21 1998

MATCH LINE A

MATCH LINE A

TYPICAL

CONCRETE PEDESTAL (TYP.)

PRE-ENG. STEEL MAIN FRAME COLUMN (TYP)

300'-0" OVERALL

30'-0"

30'-0"

30'-0"

NO FLOOR THIS AREA. FINISH GRADE ELEVATION 306.00'

PORTAL FRAME

PORTAL FRAME

TYPICAL

TYPICAL

TYPICAL

TYPICAL

TYPICAL

TYPICAL

CONCRETE PEDESTAL (TYP.)

PRE-ENG. STEEL MAIN FRAME COLUMN (TYP) EXPANDABLE TYPE FRAME

PRE-ENG. ENDWALL COLUMN

CONCRETE PEDESTAL (TYP)

TYPICAL

TYPICAL

TYPICAL

SIMILAR

SIMILAR

REFER TO SHEET S1.1 FOR FOOTING SCHEDULE

16 FOUNDATION PLAN- SOUTH END

1/8" = 1'-0" OUTDOOR ARENA: 61,250#

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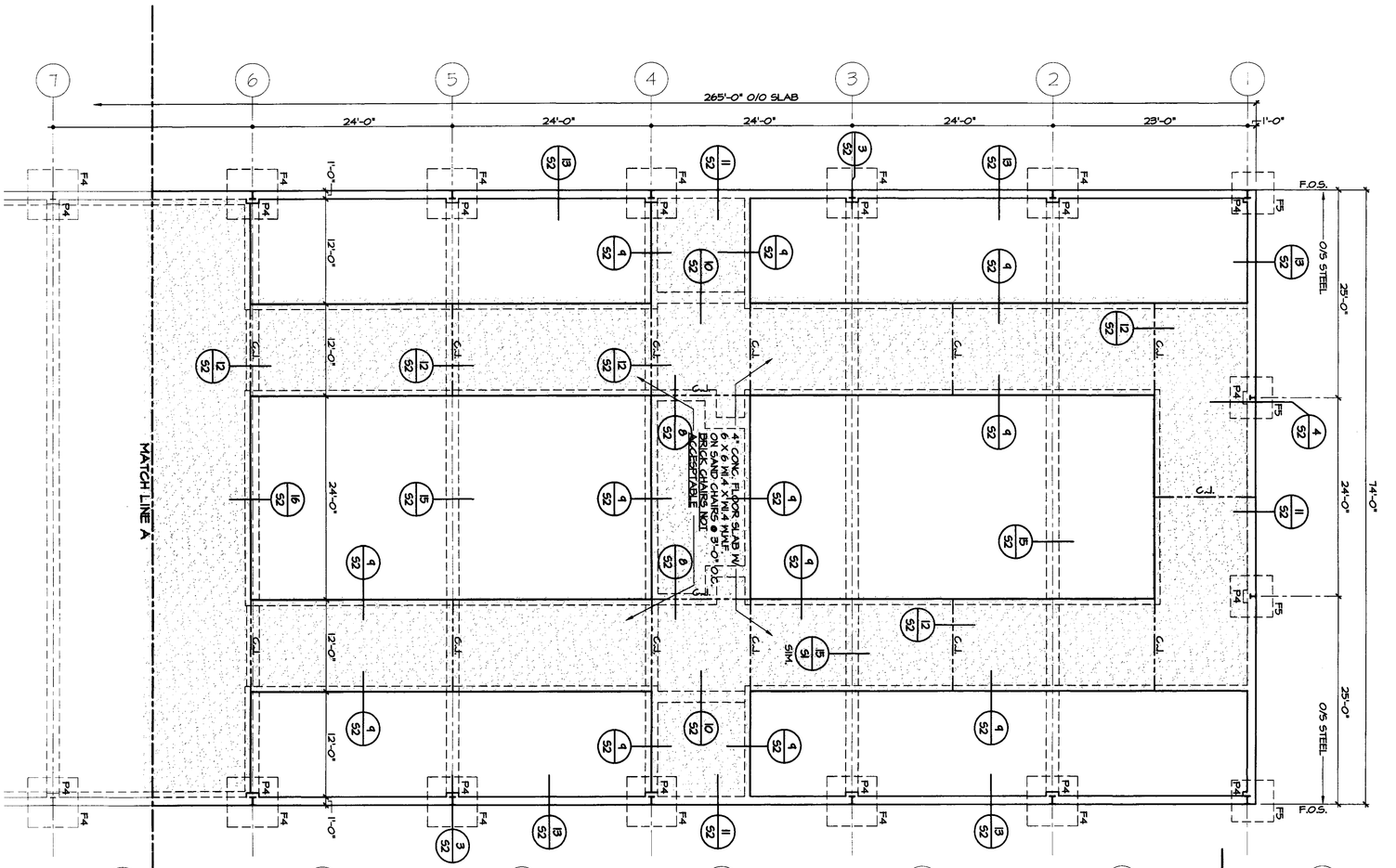
CERTIFICATE OF AUTHORIZATION ENGINEERING CONSULTANTS, INC. No. 26 ARKANSAS - ENGINEER

Sheet Name: FOUNDATION PLAN	
Project No.: 9711	Date: 08-14-98
Drawn By	File No.: 97115014
Sheet No.: S4	

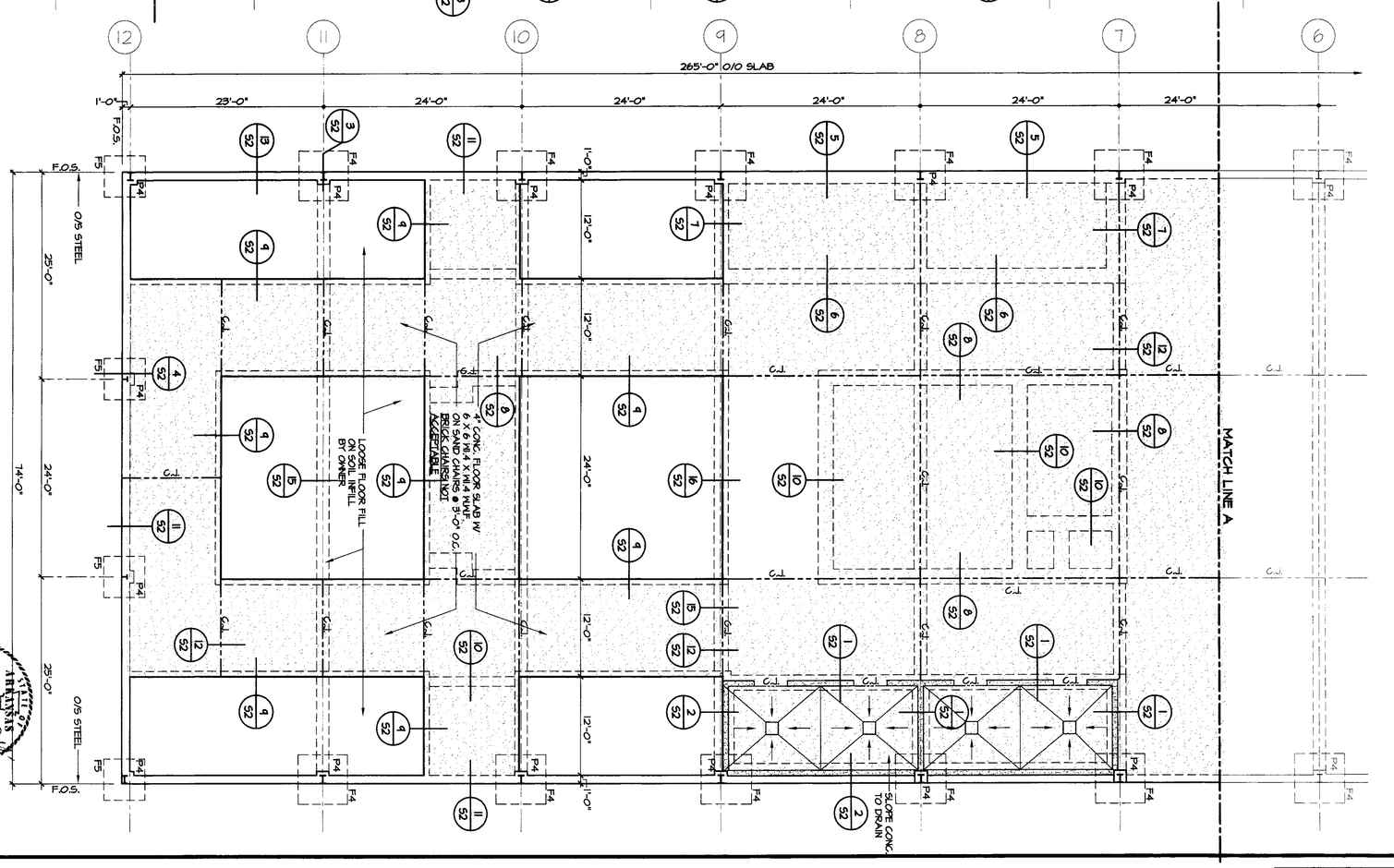
Thu Aug 27 10:37:24 1998

Thu Aug 27 10:38:26 1998

17 NOTE: FIN. FLR. SLAB EL. 307.75'
1/8" = 1'-0" STUDENT BARN
FOUNDATION PLAN- NORTH END



19 NOTE: FIN. FLR. SLAB EL. 307.75'
1/8" = 1'-0" STUDENT BARN
FOUNDATION PLAN- SOUTH END



STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5930
FRANK M. ALLISON
8/28/98

< FRONTTII >

Sheet No:	S5
Sheet Name	STRUCTURAL PLAN
Project No:	9711
Date	08-14-98
Drawn By	
File No.	9711S020

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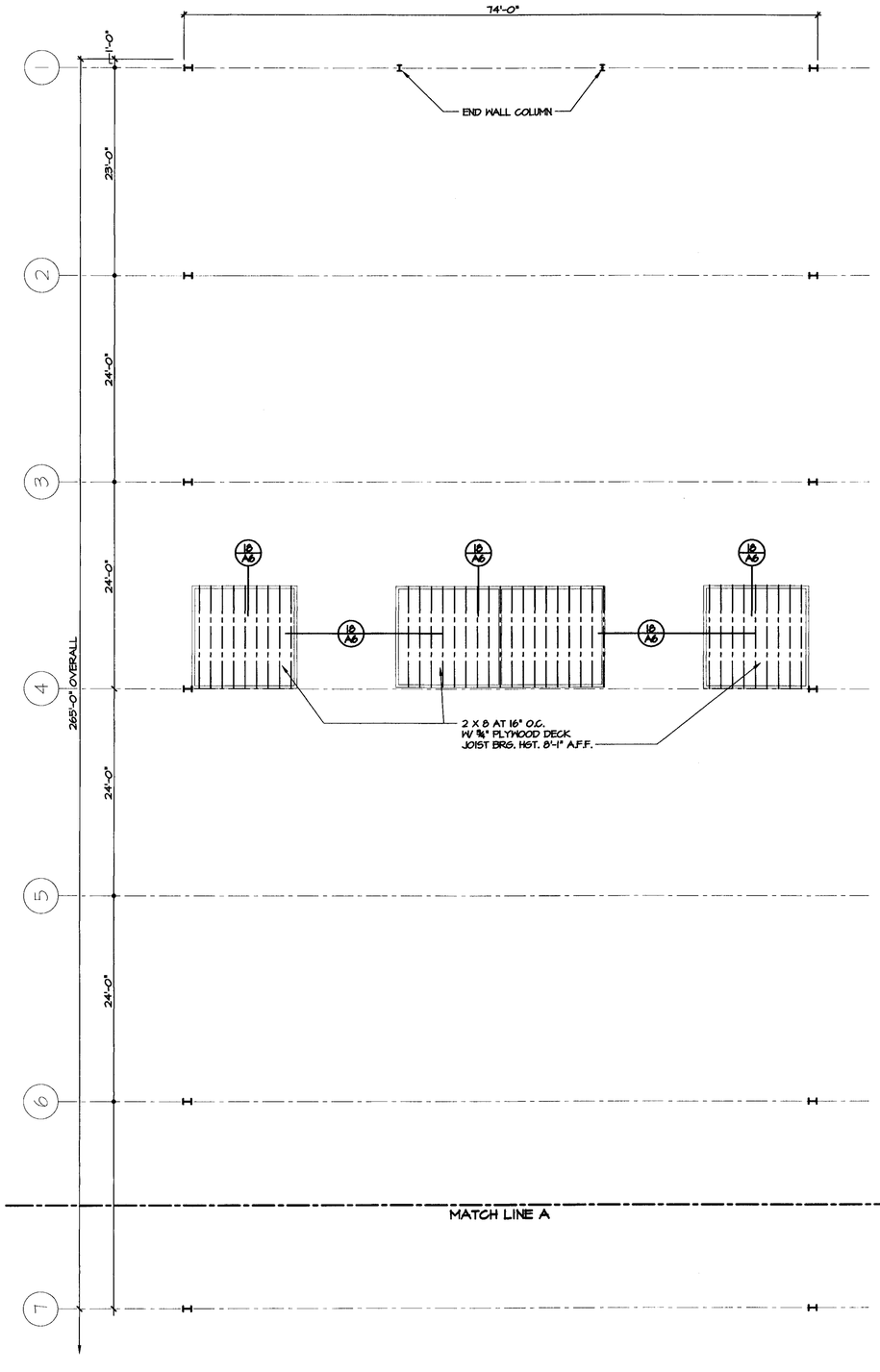
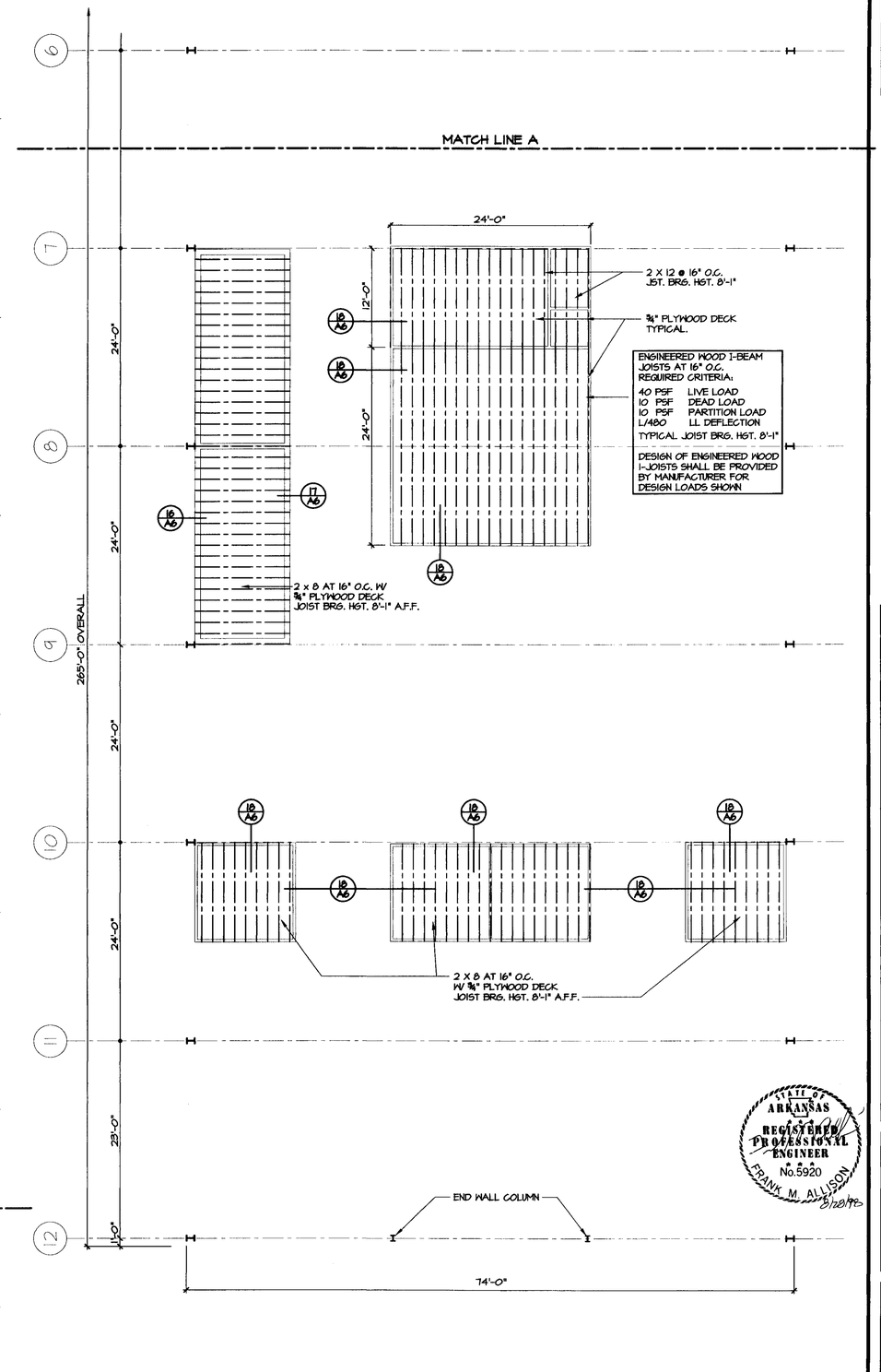


17 FRAMING PLAN-NORTH END
1/8" = 1'-0" STUDENT BARN, SECOND LEVEL FRAMING



19 FRAMING PLAN- SOUTH END
1/8" = 1'-0" STUDENT BARN, SECOND LEVEL FRAMING

‹ FPB29711 ›

‹ FPB19711 ›

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Sheet Name	
FRAMING PLAN	
Project No. 9711	Date: 08-14-98
Drawn By	File No. 97115060

Sheet No. **S6**

Tue Aug 18 09:40:28 1998

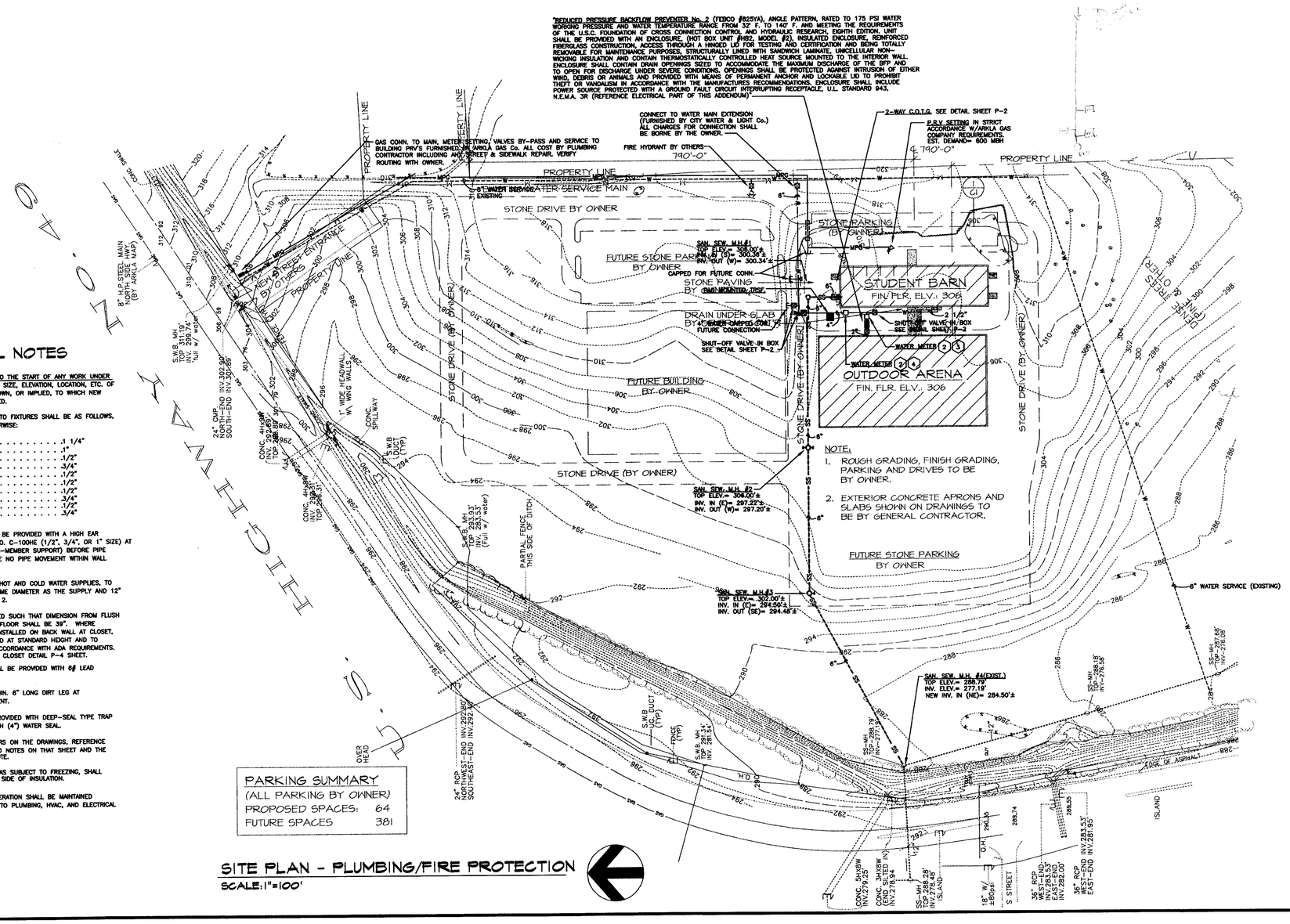
PLUMBING LEGEND

SYMBOL	DESCRIPTION	REMARKS
	COLD, HOT & HOT WATER RETURN PIPING	PIPING ABOVE FLOOR UNLESS SHOWN OR NOTED "S" BESIDE NO.-"SECURITY" TYPE REQ'D.
V A G	GAS, AIR & VACUUM PIPING	
D SS STS	INDIRECT DRAIN, STORM SEWER & SANITARY SEWER PIPING	
F S	FIRE PROTECTION & SPRINKLER PIPING	
	PENDANT, UPRIGHT & SIDEWALL SPRINKLER HEADS	
	VENT PIPING	
SS	SANITARY SEWER (WASTE) PIPING	PIPING BELOW FLOOR OR GRADE UNLESS SHOWN OR NOTED OTHERWISE
STS	STORM SEWER PIPING	
D	INDIRECT DRAIN PIPING	
W	DOMESTIC WATER PIPING	
	DESIGNATED PIPING (C.W., H.W.R. G.A.V. ETC.)	
	SHUT-OFF VALVE	GATE VALVE UNLESS NOTED OTHERWISE
	GAS COCK	UNLESS NOTED OTHERWISE
	UNION	
C.W.	COLD WATER	
H.W	HOT WATER	

SYMBOL	DESCRIPTION	REMARKS
H.W.R.	HOT WATER RETURN	
G.V	GATE VALVE	
F.H.C.	FIRE HOSE CABINET	
P.R.V.	PRESSURE REDUCING VALVE	
C.O.	CLEANOUT EXPOSED	SIDE OF PIPE RISE OR END OF PIPE RUN
C.O.T.G.	CLEANOUT TO GRADE	SEE DETAIL
F.C.O.	FLOOR CLEANOUT	
W.C.O.	WALL CLEANOUT	
V.T.R.	VENT THRU ROOF	SEE GENERAL NOTES
	SHUT-OFF VALVE IN BOX	
	FIRE PROTECTION SYSTEM STANDPIPE RISER NUMBER	
	KITCHEN EQUIPMENT REFERENCE NUMBER	SEE KIT. EQUIP. DRAWINGS
R P 3 1	RISER DIAGRAM LOCATION SHEET NUMBER RISER DIAGRAM NUMBER	
P P 3 1	PARTIAL PLAN LOCATION SHEET NUMBER PARTIAL PLAN NUMBER	
	CONNECT TO EXISTING	
	THRUST BLOCK	SEE DETAIL

KEYED NOTES

1. REFERENCE GENERAL NOTES & LEGEND ON THIS SHEET.
2. PROVIDE WATER METER, SETTING, VALVING, BY-PASS, ETC. IN STRICT ACCORDANCE WITH CITY WATER & LIGHT Co. ALL COST BY PLUMBING CONTRACTOR.
3. ESTIMATED WATER DEMAND= 90 GPM
4. ESTIMATED WATER DEMAND= 128 GPM



GENERAL NOTES

1. THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, ELEVATION, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN, OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.
2. HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHERWISE:

WATER CLOSET	1 1/4"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
ICE MACHINE	1/2"
HOSE BIBB	3/4"

3. ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH A HIGH EAR COUPLING EQUAL TO MUELLER NO. C-100HE (1/2", 3/4", OR 1" SIZE) AT THE WALL (ANCHORED TO CROSS-MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.
4. PROVIDE AIR CHAMBERS ON ALL HOT AND COLD WATER SUPPLIES, TO AND FOR EACH FIXTURE, THE SAME DIAMETER AS THE SUPPLY AND 12" LONG. SEE GENERAL NOTE NO. 2.
5. FLUSH VALVES SHALL BE MOUNTED SUCH THAT DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT AND TO THE OPEN SIDE OF TOILET IN ACCORDANCE WITH ADA REQUIREMENTS. SEE SPECIFICATIONS AND WATER CLOSET DETAIL P-4 SHEET.
6. ALL VENTS THROUGH ROOF SHALL BE PROVIDED WITH 6# LEAD FLASHING.
7. PROVIDE GAS COCK,UNION AND MIN. 6" LONG DIRT LEG AT FINAL CONNECTIONS TO EQUIPMENT.
8. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP-SEAL TYPE TRAP WITH NOT LESS THAN FOUR-INCH (4") WATER SEAL.
9. WHERE THIS SYMBOL ⬡ OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SHEET AND THE CORRESPONDING NUMBER OF NOTE.
10. WATER PIPING INSTALLED IN AREAS SUBJECT TO FREEZING, SHALL BE INSTALLED ON THE THERMAL SIDE OF INSULATION.
11. CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, AND ELECTRICAL PLANS.

PARKING SUMMARY (ALL PARKING BY OWNER)	
PROPOSED SPACES:	64
FUTURE SPACES	381

SITE PLAN - PLUMBING/FIRE PROTECTION

SCALE: 1"=100'

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JONESBORO, ARKANSAS

Revisions

NEW EQUITATION FACILITY
STUDENT BARN
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

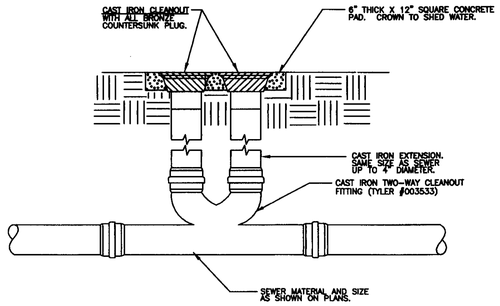
Seal:

Sheet Name: SITE PLAN-PLUMBING/FIRE PROTECTION

Project No.	Date: 8-14-18
Drawn By	File No.
Sheet No.	P-1

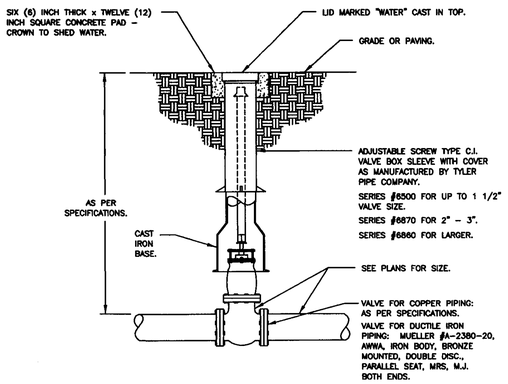
KEYED NOTES

(1) REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.



TWO-WAY CLEANOUT TO GRADE DETAIL

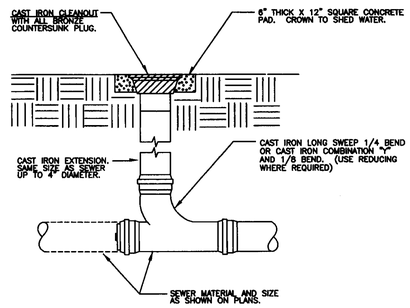
N.T.S.



VALVE BOX DETAIL

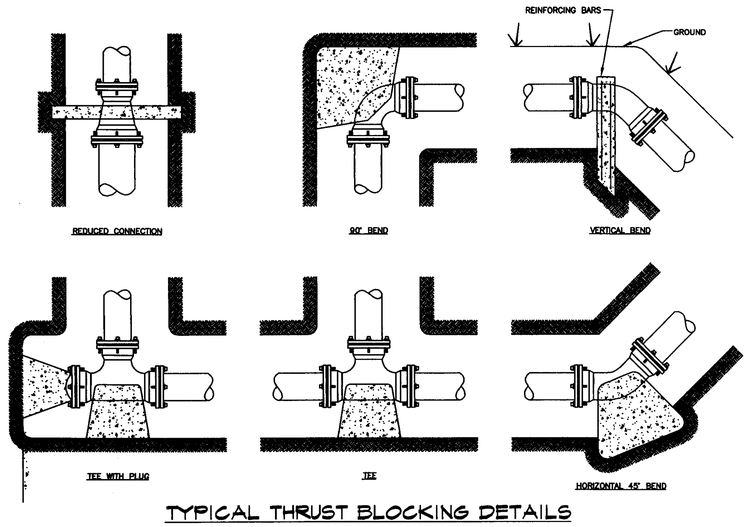
NOT TO SCALE

NOTE: CONTRACTOR SHALL PROVIDE TO THE OWNER UPON COMPLETION OF THIS WORK, A VALVE OPERATING WRENCH WITH SOCKET SIZE TO FIT VALVE NUT AND SUFFICIENT LENGTH TO PROVIDE "T" CENTERLINE AT FORTY-TWO (42) INCHES ABOVE FINISH GRADE. WRENCH SHALL BE EQUAL TO #A-24610 AS MANUFACTURED BY MUELLER COMPANY.



CLEANOUT TO GRADE DETAIL

N.T.S.



TYPICAL THRUST BLOCKING DETAILS

N.T.S.

NOTES ON THRUST BLOCKING

1. ALL BLOCKING SHALL BE AGAINST HAND DUG SOIL.
2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A KICKER BLOCK TO RESIST MOVEMENT OT THESE JOINTS.
3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE STACTIC PRESSURE + 50% OR TEST PRESSURE, WHICHEVER IS GREATER.
   THRUST= 2 AP SIN 1/2 Ø WHERE A= AREA OF PIPE
   P= WATER PRESSURE
4. WHEN BLOCKING AGAINST PLUG, PLUG SHALL BE COVERED TO TO PREVENT BINDING OF CONCRETE.
5. WHERE SHEAR BECOMES A PROBLEM PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND OBSTRUCTION.
7. CLEARANCE ON PIPES BELONGING TO OIL & GAS COMPANIES SHALL BE 18" UNLESS SPECIAL PERMISSION IS GIVEN BY THESE COMPANIES.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5359
DONALD R. HUGHES
8-25-98

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JONESBORO, ARKANSAS

Seal:

Sheet Name: UTILITY DETAILS-PLUMBING/ FIRE PROTECTION

Project No.	Date: 8-14-98
Drawn By	File No.

Sheet No. P-2

KEYED NOTES

1. REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.
2. HOSE CONNECTION SIZE FOR FPPH IN OUTDOOR ARENA SHALL BE 2" SIZE.
3. MAINTAIN POUR OF CONCRETE BASE FOR FPPH AT MINIMUM DISTANCE FROM STRUCTURE.
4. PROVIDE BACKFLOW PREVENTER (FEBCO MODEL 765 PRESS. VAC. BREAKER ASSEMBLY) MOUNTED ON STRUCTURE ABV. FIXTURE IN WTR. SUPPLY.

FLOOR PLAN -'OUTDOOR ARENA'-PLUMBING

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

FREEZE PROOF POST HYDRANT DETAIL

NOT TO SCALE

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8-25-98

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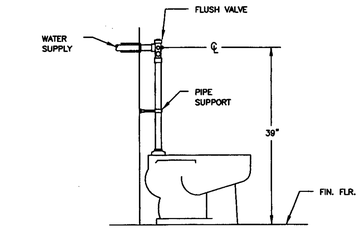
Seal:

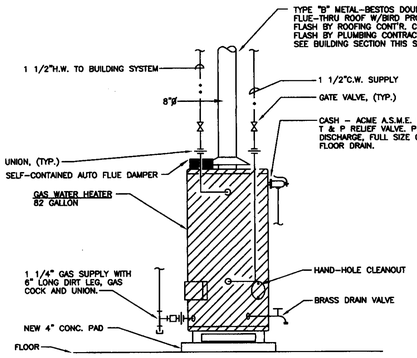
Sheet Name: FLOOR PLAN-'OUTDOOR'-PLUMBING	
Project No.	Date: 8-14-98
Drawn By	File No.
Sheet No. P-3	



WATER CLOSET DETAIL

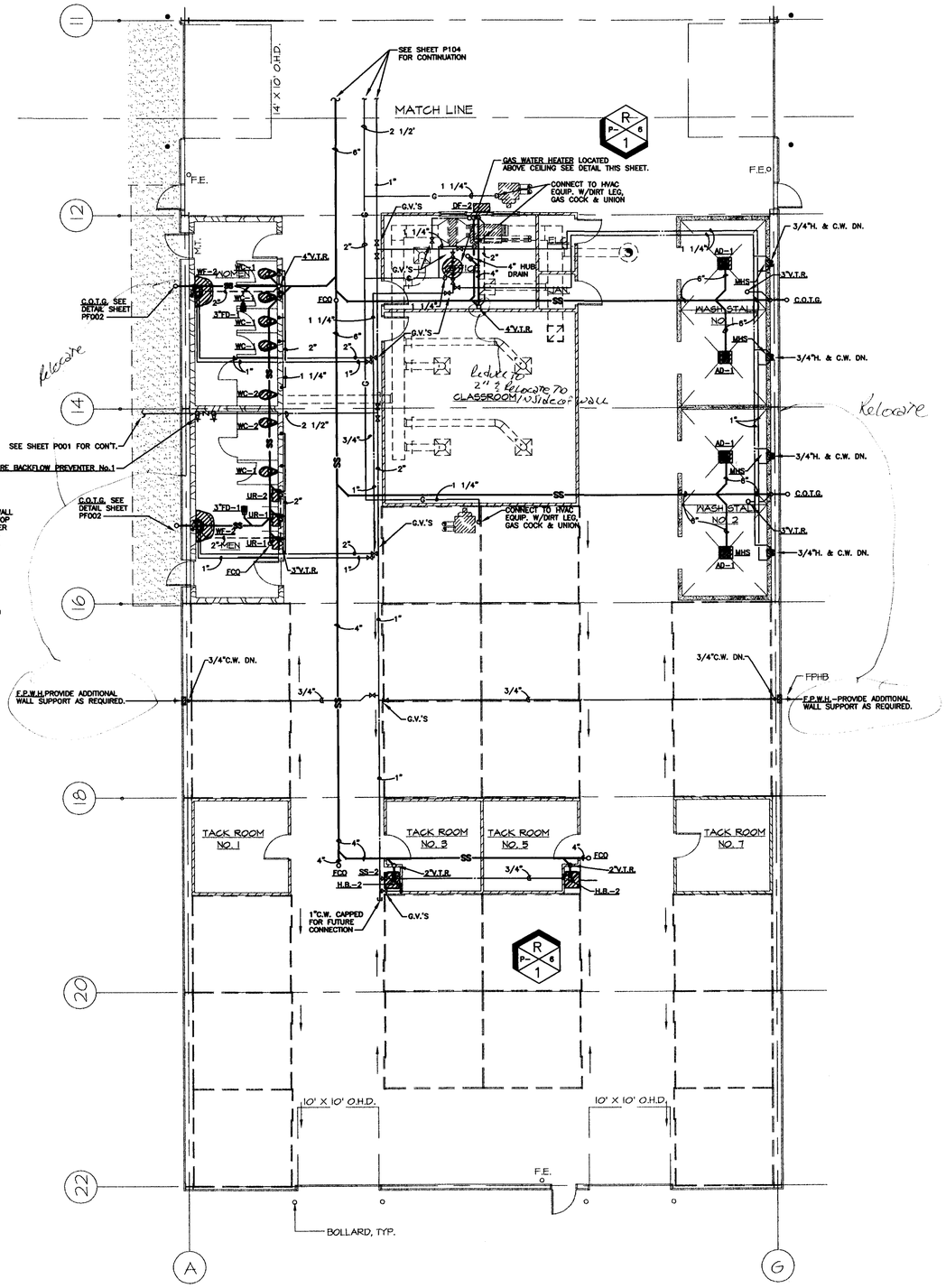
N.T.S.

NOTE: HANDICAP FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT WITH FLUSH VALVE HANDLE FACING OPEN SIDE.



WATER HEATER DETAIL

NOT TO SCALE



FLOOR PLAN -'SOUTH END'-PLUMBING

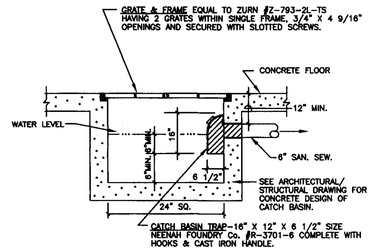
SCALE: 1/8"=1'-0"

KEYED NOTES

(1) REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.

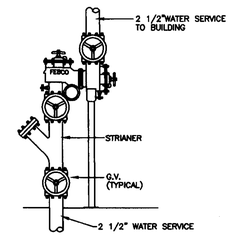
FLOOR DRAIN SCHEDULE

SYMBOL	MANUFACTURER AND MODEL
FD-1	ZURN #ZN-415B HAVING 6"SQ. N.B. STRAINER
AD-1	ZURN #Z-793-2L-TS



AREA DRAIN A.D.-1 DETAIL

NOT TO SCALE



WATER SERVICE ENTRY DETAIL

NOT TO SCALE

REDUCED PRESSURE BACKFLOW PREVENTER (FEBCO #880V), ANGLE PATTERN, RATED TO 175PSI WATER WORKING PRESSURE AND WATER TEMPERATURE RANGE FROM 32° F. TO 140° F. AND MEETING THE REQUIREMENTS OF THE U.S.C. FOUNDATION OF CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH, EIGHTH EDITION. VENT DISCHARGE SHALL BE PIPED THRU OUTSIDE WALL, FULL SIZE AND PROVIDED WITH INSECT SCREEN AT DISCHARGE POINT. UNIT SHALL INCLUDE UL/FM O.S.&Y. RW GATE VALVES, RELIEF VALVE AIR GAP DRAIN FUNNEL AND WYE STRAINER. PIPE GAATE VALVED STRAINER BLOW-OFF WITH VENT DISCHARGE PIPE.

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ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

Seal:

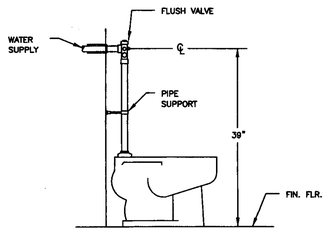
Sheet Name: FLOOR PLAN-'SOUTH END'-PLUMBING

Project No.	Date: 8-14-98
Drawn By	File No.
Sheet No. P-4	

CORPORATE REGISTRATION PETTIT & PETTIT COUNSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 5360 DONALD E. HUGGINS 8-25-98

PETTIT & PETTIT CONSULTING ENGINEERS, INC. LITTLE ROCK, ARKANSAS



WATER CLOSET DETAIL

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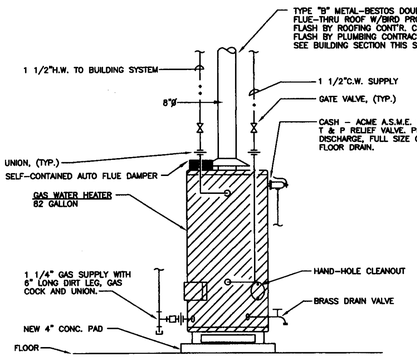
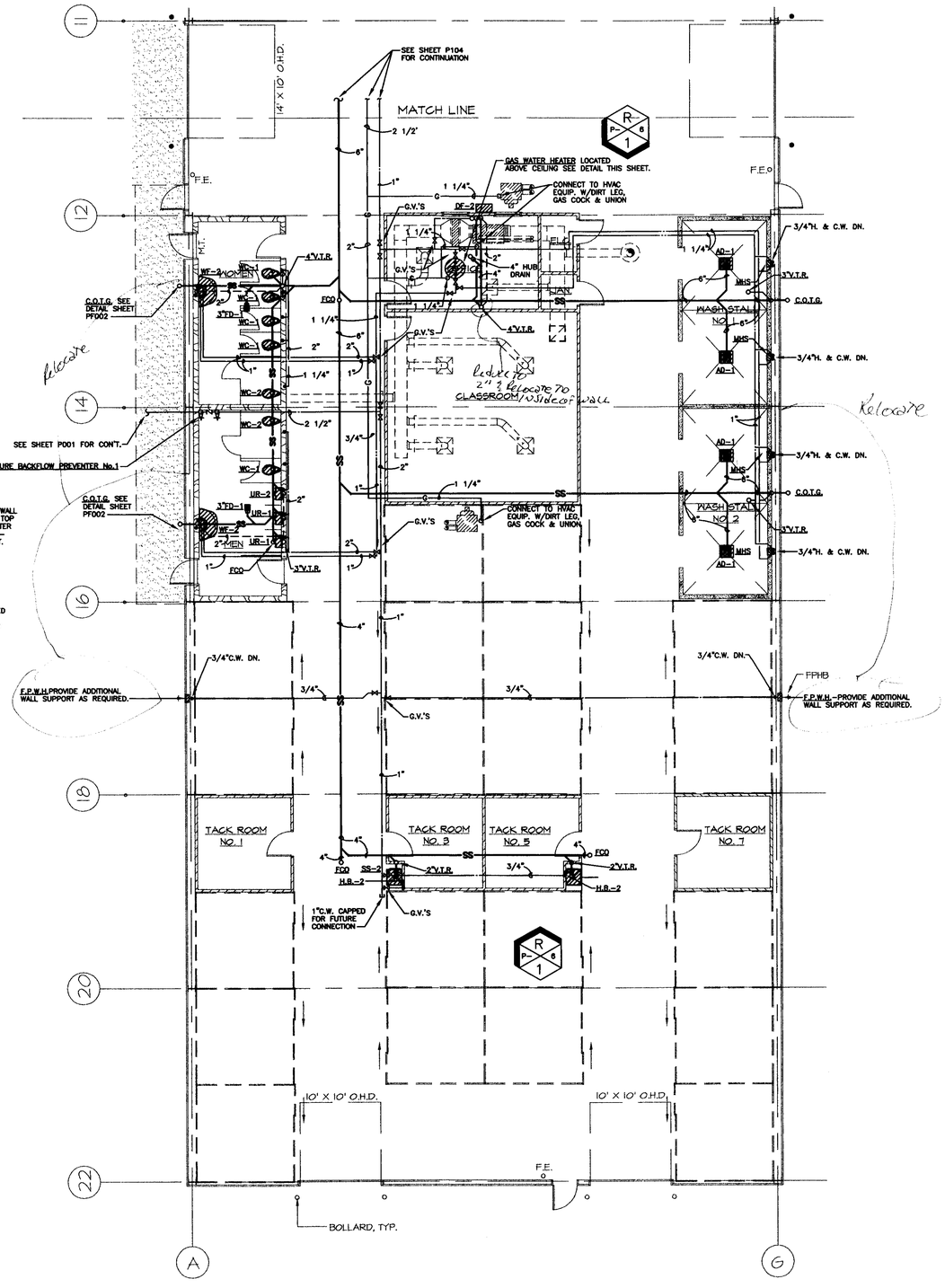
NOTE: HANDICAP FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT WITH FLUSH VALVE HANDLE FACING OPEN SIDE.



WATER HEATER DETAIL

NOT TO SCALE



FLOOR PLAN -'SOUTH END'-PLUMBING

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

KEYED NOTES

(1) REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.

FLOOR DRAIN SCHEDULE	
SYMBOL	MANUFACTURER AND MODEL
FD-1	ZURN #ZN-415B HAVING 6"SQ. N.B. STRAINER
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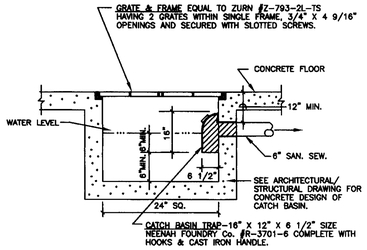
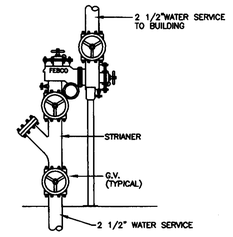


AREA DRAIN A.D.-1 DETAIL

NOT TO SCALE



WATER SERVICE ENTRY DETAIL

NOT TO SCALE

REDUCED PRESSURE BACKFLOW PREVENTER, (FEBCO #880V), ANGLE PATTERN, RATED TO 175PSI WATER WORKING PRESSURE AND WATER TEMPERATURE RANGE FROM 32° F. TO 140° F. AND MEETING THE REQUIREMENTS OF THE U.S.C. FOUNDATION OF CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH, EIGHTH EDITION. VENT DISCHARGE SHALL BE PIPED THRU OUTSIDE WALL, FULL SIZE AND PROVIDED WITH INSECT SCREEN AT DISCHARGE POINT. UNIT SHALL INCLUDE UL/FM O.S.&Y. RW GATE VALVES, RELIEF VALVE AIR GAP DRAIN FUNNEL AND WYE STRAINER. PIPE GAATE VALVED STRAINER BLOW-OFF WITH VENT DISCHARGE PIPE.

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Revisions

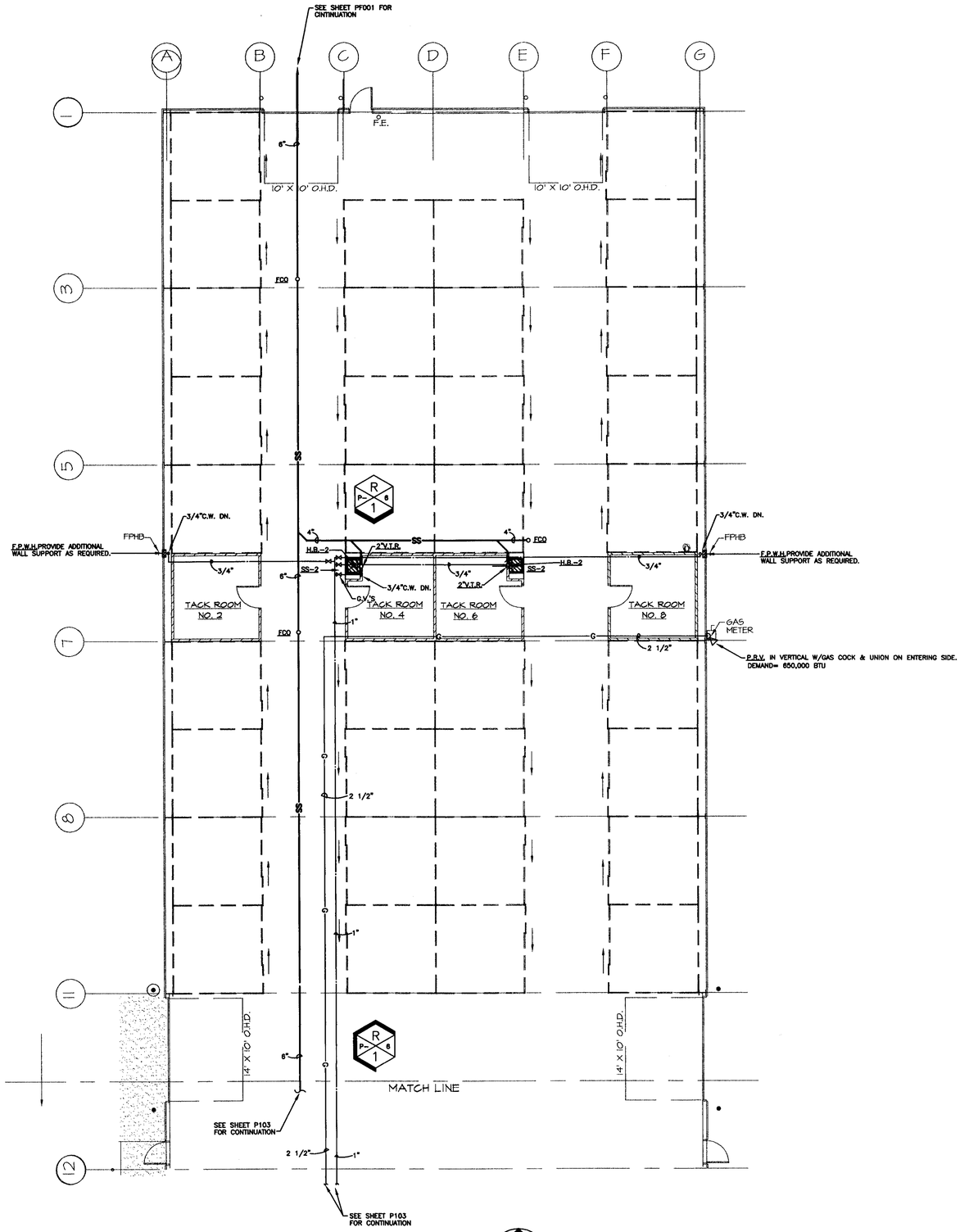
Seal:

Sheet Name: FLOOR PLAN-'SOUTH END'-PLUMBING

Project No.	Date: 8-14-98
Drawn By	File No.
Sheet No. P-4	

KEYED NOTES

(1) REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.



FLOOR PLAN -'NORTH END'-PLUMBING

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

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Seal:

Sheet Name: FLOOR PLAN-NORTH END'-PLUMBING

Project No.	Date: 8-14-98
Drawn By	File No.

Sheet No. P-5

KEYED NOTES

(1) REFERENCE GENERAL NOTES & LEGEND ON SHEET P-1.

RISER DIAGRAMS

NOT TO SCALE

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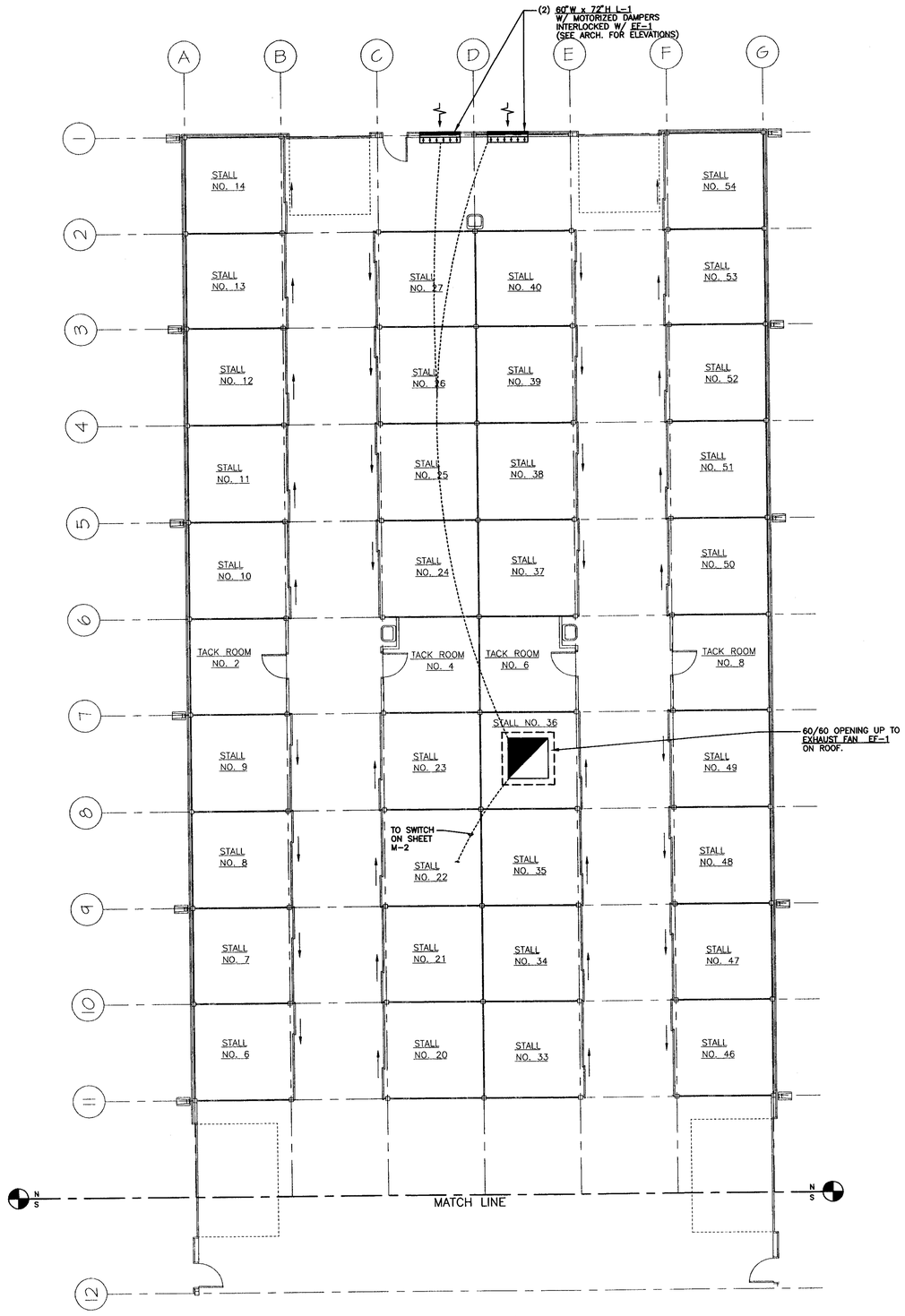
Seal:

Sheet Name: RISER DIAGRAMS-PLUMBING	
Project No.	Date: 8-14-98
Drawn By	File No.
Sheet No.	P-6



FLOOR PLAN - NORTH END - HVAC

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

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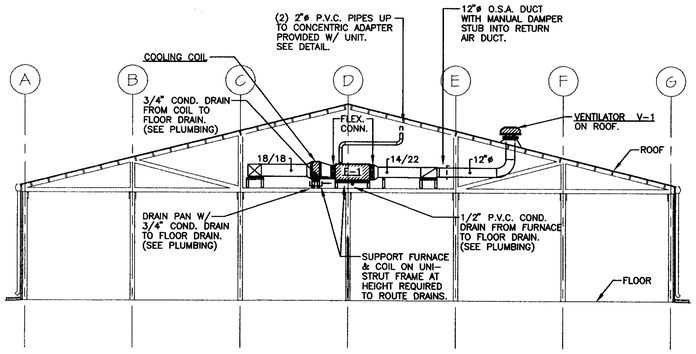
Seal:

Sheet Name: HVAC FLOOR PLAN (NORTH)	
Project No.: 9711	Date: 8-14-98
Drawn By: J.B.	File No.
Sheet No.: M-1	

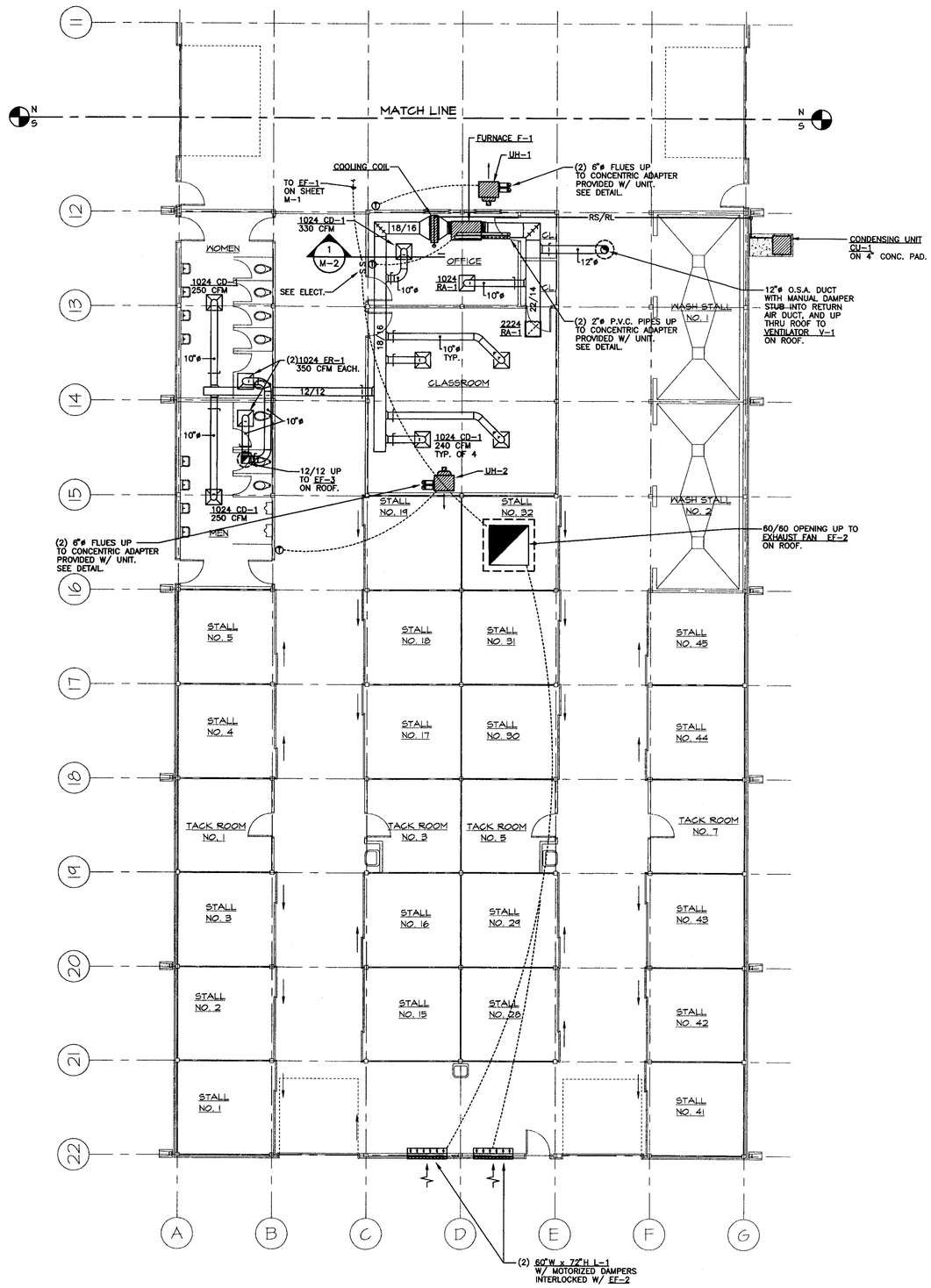
CORPORATE REGISTRATION
PETTIT & PETTIT COUNSULTING ENGINEERS, INC.
No. 78
ARKANSAS ENGINEER

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5379
DONALD R. RUSSELL
8-25-98

PETTIT & PETTIT
CONSULTING ENGINEERS, INC.
LITTLE ROCK, ARKANSAS



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



FLOOR PLAN - SOUTH END - HVAC
SCALE : 1/8" = 1'-0"

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Seal:

Sheet Name	
HVAC FLOOR PLAN (SOUTH)	
Project No. 9711	Date: 8-14-98
Drawn By J.B.	File No.
Sheet No. M-2	

GAS FIRED FURNACE SCHEDULE

DESIG.	MFR/MDL.	TYPE	CFM	OSA	ESP	FAN DIA.	DRIVE	HEATING SECTION					ELECTRICAL DATA			REMARKS
								INPUT	OUTPUT	FUEL	EAT	LAT	HP	FLA	VOLT/PHASE	
F-1	LENNOX / GHR26Q4/5-100	HORIZONTAL	1,800	500 CFM	.60"	11.5"	DIRECT	100 MBH	92 MBH	NAT. GAS	50°	97°	3/4	---	120 / 1ø	PROVIDE CONCENTRIC VENT / INTAKE AIR ROOF TERMINATION KIT.

CONDENSING UNIT AND COIL SCHEDULE

DESIG.	CONDENSING UNIT				EVAPORATOR COIL				COMBINED RATING			ELECTRICAL		REMARKS
	MFR/MDL.	TYPE	OSA AMBIENT	SERVES	MDL.	CFM	EAT	AIR PD	TOTAL	SENS	SST	VOLTS/PHASE	MCA	
CU-1	LENNOX / HS29-683	AIR COOLED	95°	F-1	CH23-68	1,800	80° D.B. 67° W.B.	.20"	64.7 MBH	47.2 MBH	---	208 / 3ø	24.2	

EXHAUST FAN SCHEDULE

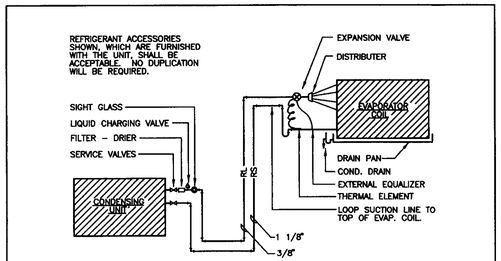
DESIG.	MFR/MDL.	SERVES	LOCAT.	TYPE	FAN DATA							MOTOR DATA				REMARKS
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP	VOLT/PH	
EF-1	COOK / ETE 54TE10B	BUILDING VENTILATION	ROOF	TIERED EXHAUST VENTILATOR	22,000	1/4"	518	BELT	PROPELLER	54"	29.0	1,750 MAX.	2.90	3	208 / 3ø	PROVIDE BACKDRAFT DAMPER, DISCONNECT SWITCH & GALV. ROOF CURB.
EF-2	COOK / ETE 54TE10B	BUILDING VENTILATION	ROOF	TIERED EXHAUST VENTILATOR	22,000	1/4"	518	BELT	PROPELLER	54"	29.0	1,750 MAX.	2.90	3	208 / 3ø	PROVIDE BACKDRAFT DAMPER, DISCONNECT SWITCH & GALV. ROOF CURB.
EF-3	COOK / ACE-B 120C2B	TOILETS	ROOF	DOWNBLAST EXHAUST VENTILATOR	700	3/8"	988	BELT	CENTRIF.	12"	4.9	1,750 MAX.	.07	1/6	120 / 1ø	PROVIDE BACKDRAFT DAMPER, DISCONNECT SWITCH & GALV. ROOF CURB.

AIR DEVICE SCHEDULE

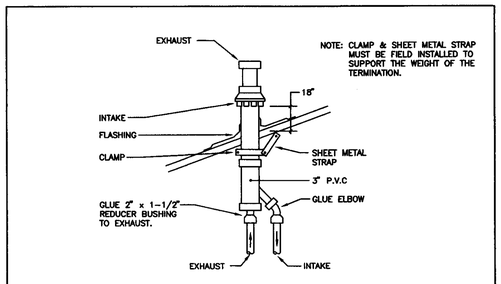
DESIG.	MFR/MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TUTTLE & BAILEY / PB	PERF. FACE CEILING SUPPLY	AS NOTED	WHITE	51%	VOLUME CONTROL	
RA-1	TUTTLE & BAILEY / PR	PERF. FACE CEILING RETURN	AS NOTED	WHITE	51%	----	
ER-1	TUTTLE & BAILEY / PR	PERF. FACE CEILING EXHAUST	AS NOTED	WHITE	51%	VOLUME CONTROL	
L-1	AMERICAN WRMNG. & VENT./ LE-21	INTAKE LOUVER	AS NOTED	PRIME COAT	---	---	W/ FLANGED FRAME

UNIT HEATER SCHEDULE

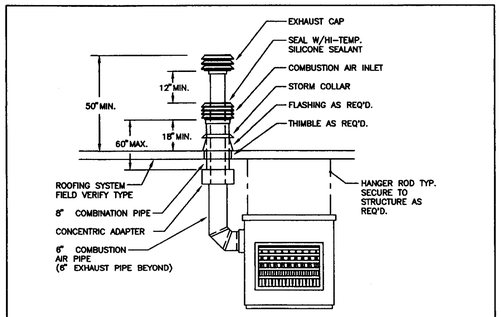
DESIG.	MFR/MDL.	SERVES	TYPE	CFM	FUEL	INPUT	OUTPUT	TEMP. RISE	MOTOR DATA		REMARKS
									HP	VOLT/PH	
UH-1	REZNOR / SCA 150	BARN	SEPARATED COMBUSTION	1,850	NAT. GAS	150 MBH	118.5 MBH	60°	1/6	120/1ø	PROVIDE T-STAT & VERTICAL VENT TERMINAL / COMBUSTION AIR INLET
UH-2	REZNOR / SCA 150	BARN	SEPARATED COMBUSTION	1,850	NAT. GAS	150 MBH	118.5 MBH	60°	1/6	120/1ø	PROVIDE T-STAT & VERTICAL VENT TERMINAL / COMBUSTION AIR INLET



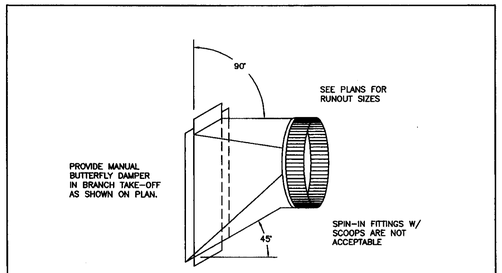
1 REFRIGERANT PIPING DIAGRAM
N.T.S.



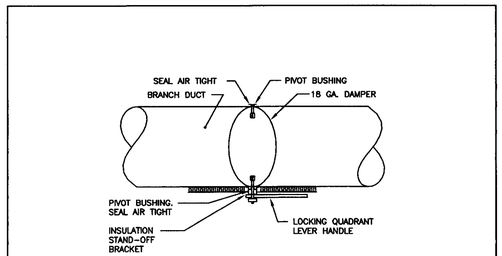
2 FURNACE INTAKE/EXHAUST PIPING DETAIL
N.T.S.



3 UNIT HEATER FLUE DETAIL
N.T.S.

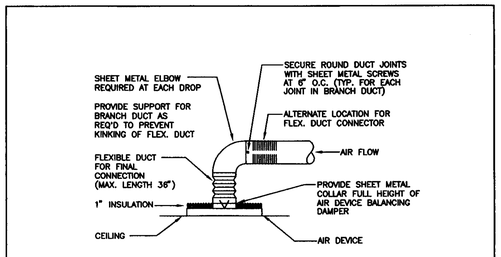


4 BRANCH DUCT TAP FITTING
N.T.S.



ABOVE ACCESSIBLE CEILINGS

5 MANUAL DAMPER OPERATOR DETAIL
N.T.S.



6 DIFFUSER CONNECTION DETAIL
N.T.S.

DUCTWORK LEGEND

- CEILING DIFFUSER
- RETURN AIR GRILLE (RA)
- EXHAUST REGISTER (ER)
- 624 CD-1 / 100 CFM — SIZE - DESIGNATION / CUBIC FEET PER MINUTE
- FLEXIBLE DUCT CONNECTOR
- TURNING VANES
- SPLITTER DAMPER (TEE)
- EXTRACTOR
- M.D. — MANUAL DAMPER
- F.D. — FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
- DIAMETER
- T$_S$ — THERMOSTAT (WITH UNIT NUMBER)
- 1 / M-1 DETAIL; 2 / M-2 SECTION — TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN

PETTIT & PETTIT
CONSULTING ENGINEERS, INC.
LITTLE ROCK, ARKANSAS

THE CAHOON FIRM, P.A.
ARCHITECTURE AND PLANNING
PH. (501) 933-6993
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JONESBORO, ARKANSAS

Revisions

NEW EQUITATION FACILITY
STUDENT BARN
ARKANSAS STATE UNIVERSITY
JONESBORO, ARKANSAS

Seal:

Sheet Name: HVAC SCHEDULES & DETAILS

Project No.	Date:
9711	8-14-98
Drawn By: J.B.	File No.

Sheet No.: M-3

NEMA 3R 20A,1P LT. SW. 5a

LIGHTING CONTACTOR LC-A
SQ. D # 5M63 OR EQUAL W/ ENCL. - INSTALL BY PANEL "LPA"

120V CKT. "LPA"-36

120V COIL AND 30A CONTACTS.

TO TYPE I LIGHT FIXTURES

"LPA"-1
"LPA"-3
"LPA"-5
"LPA"-7

TO TYPE I LIGHT FIXTURES

"LPA"-9
"LPA"-11
"LPA"-13
"LPA"-15

LC-A CONTROL WIRING DIAG.
NTS

NEMA 3R 20A,1P LT. SW. 5b

LIGHTING CONTACTOR LC-B
SQ. D # 5M63 OR EQUAL W/ ENCL. - INSTALL BY PANEL "LPA"

120V CKT. "LPA"-36

120V COIL AND 30A CONTACTS.

TO TYPE I LIGHT FIXTURES

"LPA"-2
"LPA"-4
"LPA"-6
"LPA"-8

TO TYPE I LIGHT FIXTURES

"LPA"-10
"LPA"-12
"LPA"-14
"LPA"-16

LC-B CONTROL WIRING DIAG.
NTS

PANEL "LPB"
100A 208Y120V,3Φ,4W
NEMA 3R RATED

PANEL "LPA"
400A 208Y120V,3Φ,4W
NEMA 3R RATED

CONTRACTOR SHALL CONSTRUCT A STL. RACK FOR ELEC. EQUIP. AND DEVICES SHOWN. INSTALL CENTERED ON INSIDE FACE OF COLUMN LINE # 7 & 8

LIGHTING CONTACTOR
ENC. SHALL BE NEMA 3R

LC-A
LC-B
LC-C
LC-D

LIGHT SWITCHES SHALL BE NEMA 3R RATED

relocate

INSTALL ELEC. STL. RACK ON WEST SIDE OF COLUMNS 7 AND 8.

NEMA 3R 20A,1P LT. SW 5c

LIGHTING CONTACTOR LC-C
SQ. D #LG1200 OR EQUAL W/ENCL. - INSTALL BY PANEL "LPA".

120V CKT. "LPA"-36

120V COIL AND 20A CONTACTS.

TO TYPE H LIGHT FIXTURES

"LPA"-17
"LPA"-19
"LPA"-25
"LPA"-27
"LPA"-22
"LPA"-24
"LPA"-30
"LPA"-32

SPARE
SPARE

LC-C CONTROL WIRING DIAG.
NTS

NEMA 3R 20A,1P LT. SW 5d

LIGHTING CONTACTOR LC-D
SQ. D #LG60 OR EQUAL W/ENCL. - INSTALL BY PANEL "LPA".

120V CKT. "LPA"-36

120V COIL AND 20A CONTACTS.

TO TYPE H LIGHT FIXTURES

"LPA"-18
"LPA"-20
"LPA"-29
"LPA"-31

SPARE
SPARE

LC-D CONTROL WIRING DIAG.
NTS

CONTRACTOR SHALL PROVIDE AND INSTALL PHOTO ELEC. CELL, AND MAKE REQ'D CONNECTIONS- VERIFY OPTIMUM INSTALLATION LOCATION.

CKT. "LPA"-21,23 THRU PHOTO ELEC. CELL (PEC).

CONTRACTOR SHALL PROVIDE AND INSTALL PHOTO ELEC. CELL, AND MAKE REQ'D CONNECTIONS- VERIFY OPTIMUM INSTALLATION LOCATION.

CKT. "LPA"-26,28 THRU PHOTO ELEC. CELL (PEC).

CKT. "LPA"-25,27 THRU LT'G. CONT. LC-C

CKT. "LPA"-17,19 THRU LT'G. CONT. LC-C

CKT. "LPA"-18,20 THRU LT'G. CONT. LC-D

CKT. "LPA"-22,24 THRU LT'G. CONT. LC-C

CKT. "LPA"-1,3 THRU LT'G. CONT. LC-A

CKT. "LPA"-2,4 THRU LT'G. CONT. LC-B

CKT. "LPA"-5,7 THRU LT'G. CONT. LC-A

CKT. "LPA"-6,8 THRU LT'G. CONT. LC-B

CKT. "LPA"-9,11 THRU LT'G. CONT. LC-A

CKT. "LPA"-10,12 THRU LT'G. CONT. LC-B

CKT. "LPA"-13,15 THRU LT'G. CONT. LC-A

CKT. "LPA"-14,16 THRU LT'G. CONT. LC-B

CKT. "LPA"-29,31 THRU LT'G. CONT. LC-D

CKT. "LPA"-30,32 THRU LT'G. CONT. LC-C

PENDANT MOUNT TYPE H LT. FIXTURES @ 20'-0" AFF TO BOTTOM OF FIXTURES - TYPICAL OF 10 THIS ROW.

PENDANT MOUNT TYPE H & I LT. FIXTURES @ 25'-0" AFF TO BOTTOM OF FIXTURES - TYPICAL OF 10 THIS ROW.

PENDANT MOUNT TYPE H & I LT. FIXTURES @ 30'-0" AFF TO BOTTOM OF FIXTURES - TYPICAL OF 10 FIXTURES THI ROW.

PENDANT MOUNT TYPE H & I LT. FIXTURES @ 25'-0" AFF TO BOTTOM OF FIXTURES - TYPICAL OF 10 FIXTUERS THI ROW.

PENDANT MOUNT TYPE H LT. FIXTURES @ 20'-0" AFF TO BOTTOM OF FIXTURES - TYPICAL OF 10 FIXTURES THIS ROW.

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

PETTIT & PETTIT COUNSULTING ENGINEERS, INC. No. 78 ARKANSAS ENGINEER

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.4781 LONNIE L. HILL 8-25-98

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Seal:

Sheet Name: FLOOR PLAN - LIGHTING OUTDOOR ARENA

Project No.	Date:
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