DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
				6	ARK.			
				JOB NO.		110536	1	120
				ARKANSAS WELCOME CENTER (HELENA-WEST HELENA) (S)				

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS

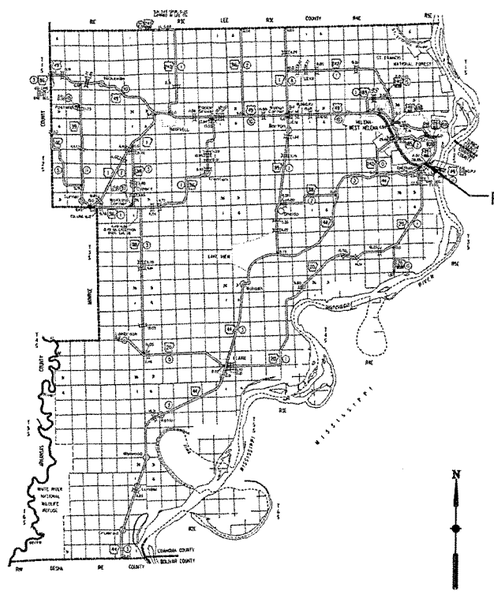
ARKANSAS WELCOME CENTER (HELENA-WEST HELENA) (S)

PHILLIPS COUNTY

ROUTE 49 SECTION 11

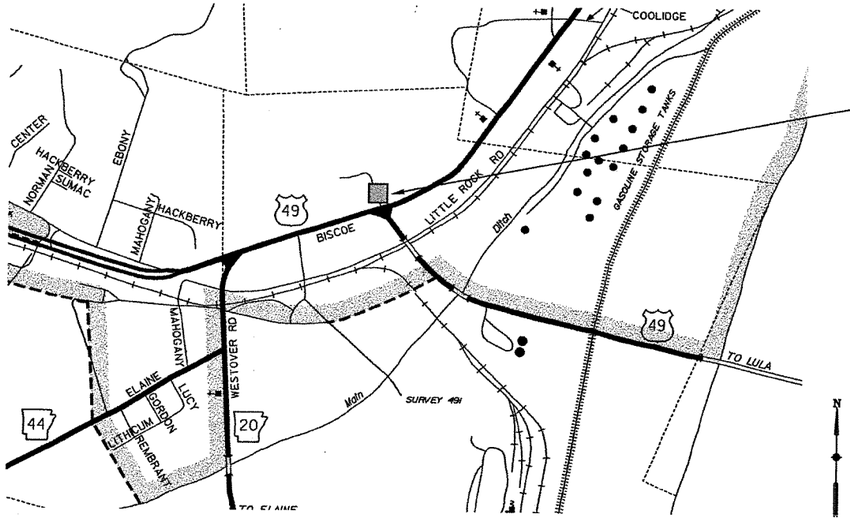
JOB 110536

F.A.P. STPE-ENHN(398)



VICINITY MAP
(NOT TO SCALE)

ARKANSAS HIGHWAY DISTRICT 1



PROJECT LOCATION
ARKANSAS WELCOME CENTER
MID POINT: 34° 30' 12" N LATITUDE: 90° 36' 19" W LONGITUDE
911 ADDRESS:
1007 MARTIN LUTHER KING JR DR.
WEST HELENA, ARKANSAS 72342

LOCATION MAP
(NOT TO SCALE)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 8165
MICHAEL SMITH
8/12/2011

CERTIFICATE OF AUTHORIZATION
SAIC
Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

WEST HELENA SHEET INDEX

SHEET	NO.	SHEET TITLE	REV. NO.	DATE	BY	APP'D	DESCRIPTION
G-001	1	COVER SHEET					
G-002	2	SHEET INDEX AND CODE INFORMATION					
G-003	3	QUANTITIES SHEET					
C-001	4	TOPOGRAPHIC SURVEY					
C-100	5	SITE PLAN					
C-101	6	STAKING AND DIMENSION CONTROL PLAN					
C-102	7	STAKING NODE LIST					
C-110	8	UTILITY PLAN					
C-120	9	GRADING AND DRAINAGE					
C-130	10	TEMPORARY EROSION CONTROL PLAN					
C-300	11	PLAN AND PROFILE LOOP ROAD I					
C-301	12	PLAN AND PROFILE LOOP ROAD II					
C-500	13	GENERAL NOTES					
C-501	14	CIVIL DETAILS I					
C-502	15	CIVIL DETAILS II					
C-503	16	CIVIL DETAILS III					
C-504	17	CIVIL DETAILS IV					
C-505	18	CIVIL DETAILS V					
C-506	19	CIVIL DETAILS VI					
C-507	20	CIVIL DETAILS VII					
C-508	21	CIVIL DETAILS VIII					
C-509	22	CIVIL DETAILS IX					
C-510	23	CIVIL DETAILS X					
C-511	24	CIVIL DETAILS XI					
C-512	25	CIVIL DETAILS XII	1				
CDP-1	25A	CONCRETE DITCH PAVING		11/17/10			
CG-1	26	CURBING DETAILS		11/29/2007			
FES-1	27	FLARED END SECTION		10/18/1996			
FES-2	28	FLARED END SECTION		10/18/1996			
FPC-9	29	DETAILS OF DROP INLETS AND JUNCTION BOXES		11/16/2001			
FPC-9E	30	DETAILS OF DROP INLETS (TYPE C)		8/22/2002			
FPC-9N	31	DETAILS OF DROP INLETS AND SPILLWAY OUTLET		7/2/1998			
FPC-9S	32	DETAILS OF DROP INLET AND JUNCTION BOX (TYPE ST)		11/16/2001			
PCC-1	33	CONCRETE PIPE CULVERT FILL HEIGHTS AND BEDDING		12/15/2011			
SI-1	34	DETAILS OF SPECIAL ITEMS		4/17/2008			
TC-1	35	STANDARD TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION		12/15/2011			
TEC-1	36	TEMPORARY EROSION CONTROL DEVICES		12/15/2011			
TEC-3	37	TEMPORARY EROSION CONTROL DEVICES		11/03/1994			
WR-1	38	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS		11/10/2005			
LP101	39	LANDSCAPE PLAN					
LP401	40	LANDSCAPE PLAN ENLARGEMENT					
LP501	41	LANDSCAPE DETAILS AND PLANT SCHEDULE					
LI101	42	LANDSCAPE IRRIGATION PLAN					
LI401	43	LANDSCAPE IRRIGATION PLAN ENLARGEMENT					
LI501	44	LANDSCAPE IRRIGATION DETAILS					
A-101	45	FLOOR PLAN					
A-102	46	ENLARGED TOILET PLANS					
A-103	47	REFLECTED CEILING PLAN					
A-104	48	ROOF PLAN					
A-105	49	FURNITURE PLAN					
A-106	50	FLOORING PLAN					
A-107	51	FLOORING PLAN DETAILS					
A-201	52	EXTERIOR ELEVATIONS					
A-202	53	EXTERIOR ELEVATIONS					
A-301	54	BUILDING SECTIONS					
A-302	55	BUILDING SECTIONS					
A-303	56	WALL SECTIONS					
A-304	57	WALL SECTIONS					
A-305	58	WALL SECTIONS					
A-306	59	WALL SECTIONS					
A-307	60	SECTION DETAILS					
A-308	61	SECTION DETAILS					
A-309	62	SECTION DETAILS					
A-310	63	SECTION DETAILS					
A-401	64	INTERIOR ELEVATIONS					
A-402	65	INTERIOR ELEVATIONS					
A-403	66	INTERIOR ELEVATIONS					
A-404	67	MILLWORK DETAILS RECEPTION DESK					
A-405	68	MILLWORK DETAILS COFFEE BAR-KIOSK					
A-406	69	MILLWORK DETAILS COFFEE BAR-KIOSK					
A-407	70	MILLWORK DETAILS COMPUTER STATION-KIOSK					
A-408	71	MILLWORK DETAILS COMPUTER STATION-KIOSK					
A-409	72	MILLWORK DETAILS BROCHURE CABINET					
A-410	73	MILLWORK DETAILS BUILT-IN BENCH					
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WEST HELENA SHEET INDEX

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A-412	75	MILLWORK DETAILS					
A-413	76	MILLWORK DETAILS MUSEUM DISPLAY CASE					
A-414	77	ARKANSAS TOURIST REGION SIGNAGE					
A-415	78	PLAN DETAILS					
A-501	79	DOOR AND WINDOW SCHEDULE AND ELEVATIONS					
A-502	80	HEAD JAMB AND SILL DETAILS					
A-503	81	PARTITION TYPES					
A-504	82	INTERIOR FINISH SCHEDULE					
A-601	83	MAINTENANCE BUILDING					
A-602	84	PICNIC PAVILION					
A-603	85	FAMILY PAVILION					
S-100	86	GENERAL NOTES					
S-101	87	FOUNDATION PLAN					
S-102	88	EQUIPMENT PLATFORM AND LOW ROOF FRAMING PLAN					
S-103	89	ROOF FRAMING PLAN					
S-201	90	TYPICAL FOUNDATION DETAILS					
S-202	91	FOUNDATION DETAILS					
S-203	92	FOUNDATION DETAILS					
S-301	93	TYPICAL FRAMING DETAILS					
S-302	94	FRAMING DETAILS					
S-303	95	FRAMING DETAILS					
S-601	96	MAINTENANCE BUILDING					
S-602	97	PICNIC PAVILION					
S-603	98	FAMILY PICNIC PAVILION					
S-604	99	DETAILS					
P-101	100	PLUMBING FLOOR PLAN					
P-102	101	MAINTENANCE BUILDING PLUMBING PLAN					
P-201	102	PLUMBING SCHEDULES					
P-301	103	PLUMBING DETAILS					
P-401	104	PLUMBING RISER DIAGRAMS					
M-101	105	MECHANICAL FLOOR PLAN					
M-102	106	MECHANICAL MEZZANINE PLAN					
M-103	107	MECHANICAL PIPING PLAN					
M-104	108	MECHANICAL SITE PLAN					
M-105	109	MAINTENANCE BUILDING MECHANICAL PLAN					
M-201	110	MECHANICAL SCHEDULES					
M-301	111	MECHANICAL DETAILS					
M-302	112	GEOTHERMAL PIPING SYSTEM DETAILS					
E-001	113	ELECTRICAL LEGEND ABBR. GENERAL NOTES					
E-100	114	ELECTRICAL SITE PLAN					
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E-103	117	LIGHTNING PROTECTION PLAN					
E-501	118	ELECTRICAL DETAILS					
E-601	119	ELECTRICAL SCHEDULES					
E-602	120	POWER RISER DIAGRAM					

ARKANSAS WELCOME CENTER - WEST HELENA, ARKANSAS
CODE INFORMATION: ARKANSAS FIRE PREVENTION CODE, 2007 EDITION

OCCUPANCY	GROUP S-1, MODERATE HAZARD STORAGE	AFPC SECTION 311.2
CONSTRUCTION	TYPE VB, UNSPRINKLERED, UNPROTECTED	AFPC SECTION 602.5, TABLE 601, TABLE 602
STRUCTURAL FRAME	0 HOUR	
BEARING WALLS	0 HOUR	
NONBEARING WALLS AND PARTITIONS	0 HOUR	
FLOOR CONSTRUCTION	0 HOUR	
ROOF CONSTRUCTION	0 HOUR	
FIRE SEPARATION WALLS	NOT APPLICABLE	(NONSEPARATED USES)
FIRE PARTITIONS		
STORAGE/MECHANICAL AREAS	0 HOUR	AFPC TABLE 508.2
EXIT ACCESS CORRIDORS	0 HOUR	AFPC TABLE 1017.1
SHAFT ENCLOSURES	NOT APPLICABLE	
AREA OF EXTERIOR OPENINGS	UNLIMITED	AFPC TABLE 704.8
BUILDING LIMITATIONS FOR B OCCUPANCY		
HEIGHT AND STORIES	40 FT/1 STORY	AFPC TABLE 503
ACTUAL HEIGHT AND STORIES	31 FT/1 STORY	
BASE AREA	9,000 SF/FLOOR	AFPC TABLE 503
ACTUAL AREA (1 STORY)	3,616 SF	
MEANS OF EGRESS		
OCCUPANT LOAD, GROUP S-1	1 OCCUPANTS	AFPC TABLE 1004.1.1
OCCUPANT LOAD, GROUP B	34 OCCUPANTS	AFPC TABLE 1004.1.1
TOTAL OCCUPANT LOAD	35 OCCUPANTS	
WIDTH OF EGRESS DOORS		
EXITS	32" REQUIRED, 36" PROVIDED	AFPC SECTION 1008.1.1
MINIMUM NUMBER OF EXITS	2 REQUIRED, 6 PROVIDED	AFPC TABLE 1015.1
EXIT ACCESS TRAVEL DISTANCE	200 FT	AFPC TABLE 1016.1
EXIT ACCESS CORRIDOR WIDTH	44" REQUIRED, 60" PROVIDED	AFPC SECTION 1017.2
DEAD END CORRIDOR	20 FT, NONE ACTUAL	AFPC SECTION 1017.3

Owner:

Arkansas State Highway and Transportation Department
P.O. Box 2261
Little Rock, Arkansas 72203-2261
Contact: Ray Gruver, Section Head
Maintenance Division, Facilities Management Sect.
Phone: 501-569-2090
Fax: 501-569-2011

Operator:

Arkansas Department of Parks and Tourism
2312 Cantrell Road
Little Rock, Arkansas 72202
Phone: 501-324-1520
Fax: 501-324-1525

Architecture and Engineering:

The Benham Companies, LLC.
201 Presidential Drive, Suite 200
Lowell, Arkansas 72745
Phone: 479-770-5800
Fax: 479-770-5801

Structural Consultant:

Engineering Consultants
101 Parkwood St., Suite B
Lowell, AR 72745
Phone: 479-770-5366
Fax: 479-770-5367

"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 ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS."

JOSEPH S. ROGERS, ARCHITECT

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
1	02/01/12	ADDENDUM NO. 1	MJS	JSR
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT NO. 2365 ARKANSAS 2-1-12

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
SHEET INDEX AND CODE INFORMATION

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	G-002
REV	1

2 OF 120

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GOVERNING SPECIFICATIONS

ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS
FOR HIGHWAY CONSTRUCTION, EDITION OF 2003, AND THE
FOLLOWING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS:

ERRATA ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
FHWA-1273 FHWA-1273 REVISIONS
FHWA-1273 REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
FHWA-1273 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
FHWA-1273 SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
FHWA-1273 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
FHWA-1273 SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
FHWA-1273 SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
FHWA-1273 SUPPLEMENT - WAGE RATE DETERMINATION
FHWA-1273 SUPPLEMENT - WAGE RATE DETERMINATION - BUILDING

JOB SP BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
JOB SP BROADBAND INTERNET SERVICE FOR FIELD OFFICE
JOB SP BUILDERS RISK INSURANCE
JOB SP COMPETENCY OF BIDDERS
JOB SP GOALS FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION
JOB SP INTERNET BIDDING
JOB SP MEASUREMENT AND PAYMENT
JOB SP PARTNERING REQUIREMENTS
JOB SP PROJECT MANUAL
JOB SP STANDARD SPECIFICATION APPLICABILITY
JOB SP STORM WATER POLLUTION PREVENTION PLAN
JOB SP SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
JOB SP UTILITY ADJUSTMENTS
JOB SP VALUE ENGINEERING
JOB SP WARM MIX ASPHALT
100-2 MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)
103-1 DETERMINATION OF DBE PARTICIPATION
105-1 CONSTRUCTION CONTROL MARKINGS
105-2 EQUIPMENT AND MATERIAL STORAGE ON BRIDGE STRUCTURES
107-1 WORKER VISIBILITY
108-1 LIQUIDATED DAMAGES
110-1 PROTECTION OF WATER QUALITY AND WETLANDS
303-1 AGGREGATE BASE COURSE
404-1 PRODUCTION VERIFICATION OF ASPHALT CONCRETE HOT MIX
409-1 MINERAL AGGREGATES
410-3 DENSITY TESTING FOR ACHM LEVELING COURSES AND BOND BREAKERS
600-1 WATER FOR VEGETATION
603-1 MAINTENANCE OF TRAFFIC
604-1 RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES
606-2 PIPE CULVERTS
718-2 REFLECTORIZED PAINT PAVEMENT MARKINGS
719-2 THERMOPLASTIC PAVEMENT MARKING MATERIAL
723-1 GENERAL REQUIREMENTS FOR SIGNS
1 804-1 INSTALLATION OF DOWEL BARS AND TIE BARS

REVISION TABLE
WEST HELENA, ARKANSAS

DATE	DESCRIPTION	SHEET NUMBER
2/1/2012	ADDENDUM 1 - REFER TO ALL REVISIONS LABELED 1	2,3,8,9,10,20,22,23, & 25

SITE UTILITIES (FOR INFORMATION ONLY)
WEST HELENA, ARKANSAS

ITEM DESCRIPTION	QTY	UNIT
SANITARY SEWER		
8" PVC SANITARY SEWER	316	LF
SANITARY MANHOLE	3	EA
4" PVC SANITARY LATERAL	265	LF
SANITARY CLEANOUT	3	EA
SANITARY LATERAL CONNECTIONS	1	EA
CONNECTION TO EXISTING SAN. MAIN	1	EA
POTABLE WATER		
4" DOMESTIC WATER LINE	331	LF
1-1/2" DOMESTIC WATER LINE	1,153	LF
4" WATER TAP & VALVE	1	EA
4" WATER METER	1	EA
4" x 1-1/2" REDUCER	1	EA
4" TEE	1	EA
4" x 1-1/2" TEE	2	EA
1-1/2" TEE	8	EA
1-1/2" 45 DEGREE BEND	9	EA
1-1/2" 90 DEGREE BEND	5	EA
FIRE PROTECTION WATER		
8" MAIN FIRE PROTECTION LINE	768	LF
6" FIRE WATER LINE (FH)	273	LF
FIRE HYDRANT & VALVE	4	EA
8" TAP & VALVE	2	EA
8" VALVE	1	EA
8"x8"x6" TEE	4	EA
8" 45 DEGREE BEND	4	EA
6" 90 DEGREE BEND	2	EA
6" 22.5 DEGREE BEND	1	EA
STORM DRAINAGE		
TRENCH DRAIN	1	EA
CLEANOUTS	4	EA
8" PVC	219	LF
6" PVC ROOF DRAIN LATERALS	304	LF

1 NOTES:
1. UNCLASSIFIED EXCAVATION AND COMPACTED EMBANKMENT - EARTHWORK QUANTITIES SHOWN IN SUMMARY OF QUANTITIES TABLE SHALL BE PAID AS PLAN QUANTITIES.
2. JUNCTION BOXES - REFER TO STANDARD DRAWINGS FPC-9S AND FPC-9.

LANDSCAPING
WEST HELENA, ARKANSAS

ITEM	ITEM DESCRIPTION	QTY	UNIT
620	SEEDING * 1	1.23	AC
624	SOLID SODDING	5324.00	SQ YD
SP	LANDSCAPING	1.00	LS
SP	LANDSCAPING MAINTENANCE & WARRANTY	1.00	LS

1 * SEEDING AND TEMPORARY SEEDING INCLUDES ALL SPECIFIED WORK REQUIRED TO ESTABLISH VEGETATION, INCLUDING BUT NO LIMITED TO. MULCH, WATER, AND LIME, AS NEEDED.

SUMMARY OF QUANTITIES
WEST HELENA, ARKANSAS

MEASUREMENT AND PAYMENT ITEM	ITEM	ITEM DESCRIPTIONS	QTY	UNIT
1	210	UNCLASSIFIED EXCAVATION 1	1 7,113	CY
2	210	COMPACTED EMBANKMENT	7,383	CY
3	SS&303	AGGREGATE BASE COURSE (CLASS 7)	1 3687	TONS
4	307	PROCESSING CEMENT TREATED BASE COURSE (8" UNIFORM THICKNESS)	6271	SQ YD
5	307	CEMENT IN TREATED BASE COURSE	318	TONS
1 6	309	PORTLAND CEMENT CONCRETE BASE (6" UNIFORM THICKNESS)	12	SQ YD
7	401	TACK COAT	243	GAL
8	SP,SS&406	MINERAL AGGREGATE IN ACHM BINDER COURSE (1")	891	TONS
9	SP,SS&406	ASPHALT BINDER (PG 64-22) IN ACHM BINDER COURSE (1")	52	TONS
10	SP,SS&407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	445	TONS
11	SP,SS&407	ASPHALT BINDER (PG 64-22) IN ACHM SURFACE COURSE (1/2")	23	TONS
12	601	MOBILIZATION	1.00	LS
13	SP&602	FURNISHING FIELD OFFICE	1	EA
14	SS&603	MAINTENANCE OF TRAFFIC	1.00	LS
15	SS&604	TRAFFIC DRUMS	20	EA
16	SS&606	24" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	1 50	LF
17	SS&606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	376	LF
18	606	24" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1	EA
19	606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	1 2	EA
20	609	DROP INLET (TYPE C)	5	EA
21	609	DROP INLET (TYPE N1)	2	EA
22	609	DROP INLET EXTENSION (8')	1 4	EA
23	621	ROCK DITCH CHECKS	120	CU YD
24	621	SILT FENCE 1	1,516	LF
25	621	SAND BAG DITCH CHECKS	720	BAG
26	621	SEDIMENT REMOVAL AND DISPOSAL	100	CY
27	621	DROP INLET SILT FENCE	192	LF
28	633	CONCRETE WALKS	470	SY
29	SP&633	COLORED CONCRETE WALKS	363	SY
30	634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A)(1' 6")	1,840	LF
31	641	WHEELCHAIR RAMPS (TYPE 1)	3	SQ YD
32	641	WHEELCHAIR RAMPS (TYPE 4)	7	SQ YD
33	SS&718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (4")	592	LF
34	SS&718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (4")	2,122	LF
35	SS&718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (12")	36	LF
36	SS&718	REFLECTORIZED PAINT PAVEMENT MARKING (WORDS)	2	EA
37	SS&718	REFLECTORIZED PAINT PAVEMENT MARKING (ARROWS)	22	EA
38	SP,SS&719	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (WHEELCHAIR)	2	EA
39	SS&726	STANDARD SIGN	6.30	SQ FT
40	SP	SITE UTILITIES	1	LS
41	SP	MAINTENANCE BUILDING	1	LS
42	SP	WELCOME CENTER FACILITY	1	LS
43	SP	PICNIC SHELTERS	1	LS
44	SP	LANDSCAPING	1	LS
45	SP	SITE FURNISHINGS	1	LS
46	SP	EXTERIOR AREA LIGHTING	1	LS
47	SS&609	JUNCTION BOX (TYPE ST)	1	EA
48	SS&609	JUNCTION BOX (TYPE E)	2	EA
49	SS&110	NOT USED		
50	SS&605	CONCRETE DITCH PAVING (TYPE B)	6	SQ YD
51	SS&804	REINFORCING STEEL - ROADWAY (GRADE 60)	134	LB

1

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 8165
MICHAEL SMITH
2/02/2012

SAIC
CERTIFICATE OF AUTHORIZATION
Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
1	02/01/12	ADDENDUM NO. 1		
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

QUANTITIES SHEET

DESIGNED BY	TBC
DRAWN BY	X
CHECKED BY	TBC
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	G-003
REV	1

3 OF 120

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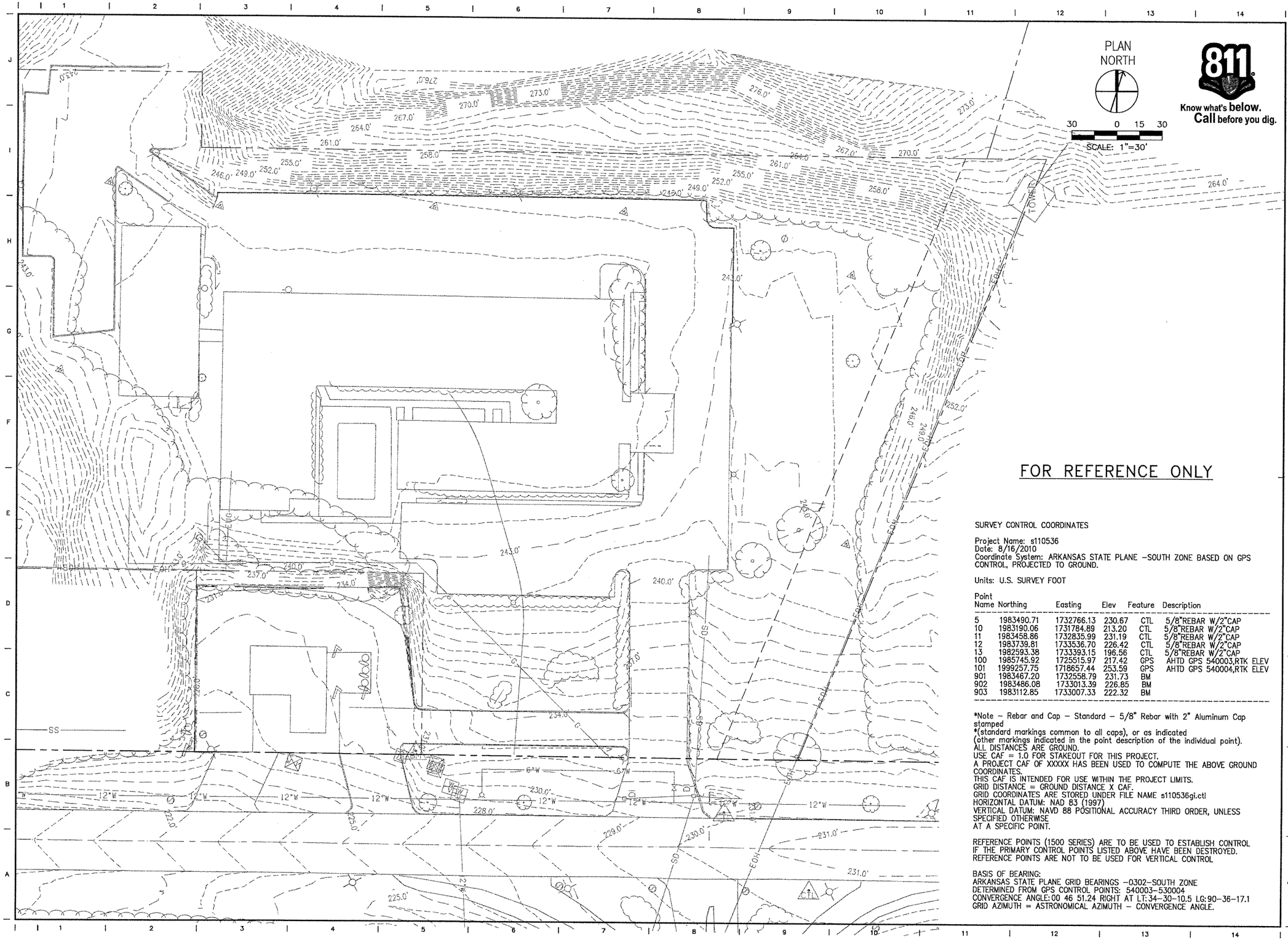


FOR REFERENCE ONLY

SURVEY CONTROL COORDINATES

Project Name: s110536
Date: 8/16/2010
Coordinate System: ARKANSAS STATE PLANE -SOUTH ZONE BASED ON GPS CONTROL, PROJECTED TO GROUND.

Units: U.S. SURVEY FOOT

Point Name	Northing	Easting	Elev	Feature	Description
5	1983490.71	1732766.13	230.67	CTL	5/8"REBAR W/2"CAP
10	1983190.06	1731784.89	213.20	CTL	5/8"REBAR W/2"CAP
11	1983458.86	1732835.99	231.19	CTL	5/8"REBAR W/2"CAP
12	1983739.81	1733536.70	226.42	CTL	5/8"REBAR W/2"CAP
13	1982593.38	1733393.15	196.56	CTL	5/8"REBAR W/2"CAP
100	1985745.92	1725515.97	217.42	GPS	AHTD GPS 540003,RTK ELEV
101	1999257.75	1718657.44	253.59	GPS	AHTD GPS 540004,RTK ELEV
901	1983467.20	1732558.79	231.73	BM	
902	1983486.08	1733013.39	226.85	BM	
903	1983112.85	1733007.33	222.32	BM	

*Note - Rebar and Cap - Standard - 5/8" Rebar with 2" Aluminum Cap stamped
*(standard markings common to all caps), or as indicated
(other markings indicated in the point description of the individual point).
ALL DISTANCES ARE GROUND.
USE CAF = 1.0 FOR STAKEOUT FOR THIS PROJECT.
A PROJECT CAF OF XXXXX HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES.
THIS CAF IS INTENDED FOR USE WITHIN THE PROJECT LIMITS.
GRID DISTANCE = GROUND DISTANCE X CAF.
GRID COORDINATES ARE STORED UNDER FILE NAME s110536gi.ctl
HORIZONTAL DATUM: NAD 83 (1997)
VERTICAL DATUM: NAVD 88 POSITIONAL ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE
AT A SPECIFIC POINT.

REFERENCE POINTS (1500 SERIES) ARE TO BE USED TO ESTABLISH CONTROL IF THE PRIMARY CONTROL POINTS LISTED ABOVE HAVE BEEN DESTROYED.
REFERENCE POINTS ARE NOT TO BE USED FOR VERTICAL CONTROL

BASIS OF BEARING:
ARKANSAS STATE PLANE GRID BEARINGS -0302-SOUTH ZONE
DETERMINED FROM GPS CONTROL POINTS: 540003-530004
CONVERGENCE ANGLE:00 46 51.24 RIGHT AT LT: 34-30-10.5 LG: 90-36-17.1
GRID AZIMUTH = ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE.

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

TOPOGRAPHIC SURVEY

DESIGNED BY	AHTD
DRAWN BY	X
CHECKED BY	AHTD
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-001
REV	0

4 OF 120

Filename: P:\LOW\TAC\6351016000_AHTDWestHelena\2D_DESIGN_40_CADD\C\C-001 TOPOGRAPHIC SURVEY.dwg Saved: 8/12/2011 2:45:14 PM By: grafp
Xrefs: ..\0160_C-BSD1.DWG ..\0160_C-GP.DWG ..\0160_C-UP.DWG ..\0160_C-SV.DWG ..\0160_C-SP.DWG

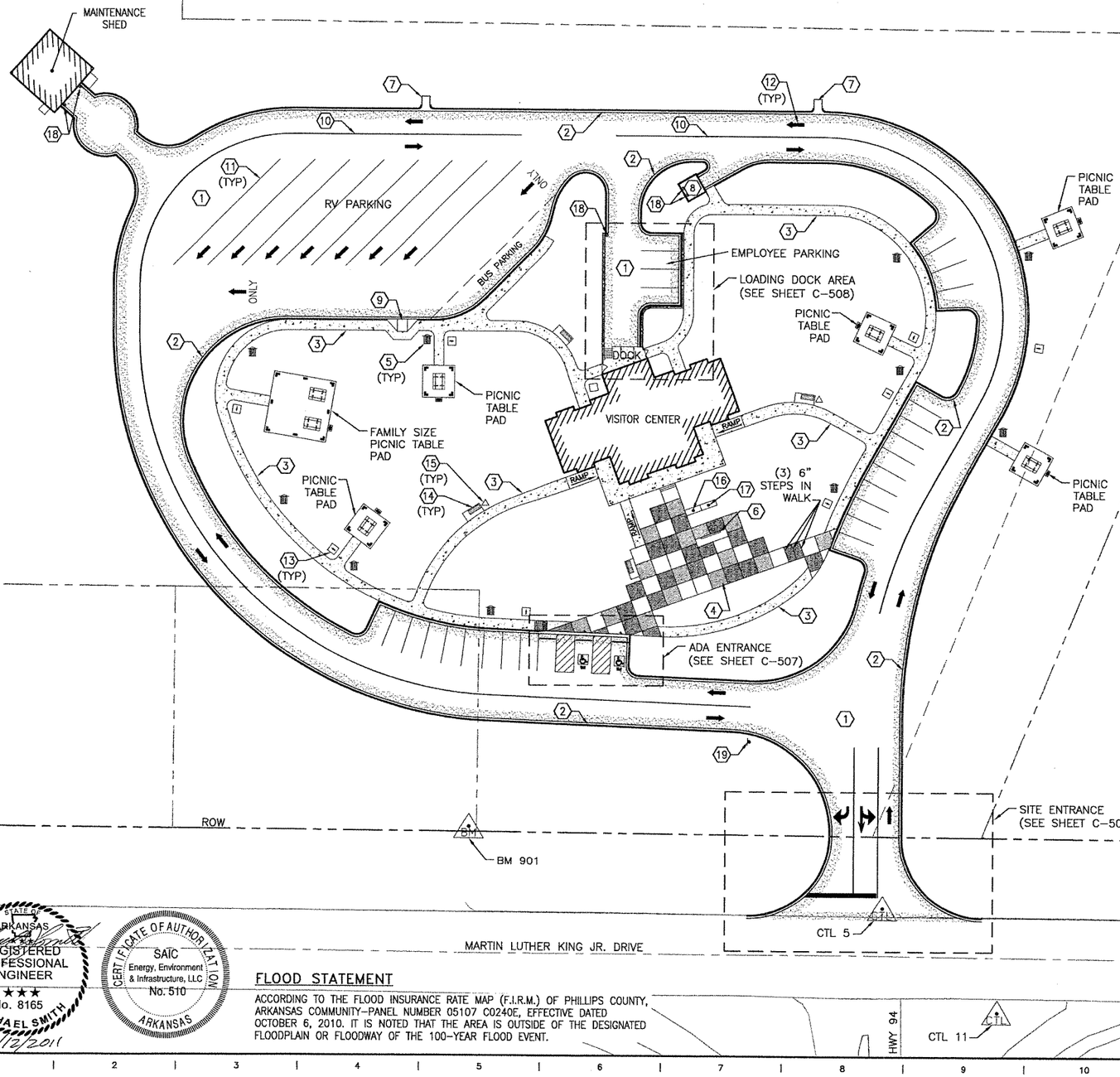
CONTROL	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 901	1983467.20	1732558.79	231.73	BENCHMARK
CTL 5	1983490.71	1732766.13	230.67	5/8" REBAR W/2"CAP
CTL 11	1983458.86	1732835.99	231.19	5/8" REBAR W/2"CAP

PLAN NORTH

30 0 15 30

SCALE: 1"=30'

811 Know what's **below.** **Call** before you dig.



KEYED NOTES (THIS SHEET):

1. ASPHALT PAVEMENT (SEE SHEET C-512)
2. CONCRETE COMBINATION CURB & GUTTER – TYPE A (AHTD STANDARD DRAWINGS)
3. CONCRETE SIDEWALK (DETAIL 1, SHEET C-501)
4. 6" INTEGRALLY COLORED CONCRETE WALK (DETAIL 3, SHEET C-501)
5. LITTER RECEPTACLE (DETAIL 4, C-502)
6. GRANITE SIGN (DETAIL 1, SHEET C-506)
7. CURB OPENING WITH 4' WIDE CONCRETE FLUME (DETAIL 3, SHEET C-507)
8. 10' X 10' DUMPSTER PAD (DETAIL 1, SHEET C-505)
9. TYPE 4 WHEEL CHAIR RAMP (AHTD STANDARD DRAWINGS)
10. 4" DOUBLE YELLOW PAVEMENT STRIPING
11. 4" WHITE PAVEMENT STRIPING
12. THROUGH LANE USE ARROW
13. YARD HYDRANT SPLASH PAD (DETAIL 6, C-502)
14. BENCH (DETAIL 7, C-502)
15. PEDESTAL DRINKING FOUNTAIN (DETAIL 5, C-502)
16. 30' TALL FLAG POLE (DETAIL 3, C-502)
17. 25' TALL FLAG POLE (DETAIL 3, SHEET C-502)
18. CONCRETE BOLLARD (DETAIL 2, SHEET C-505)
19. STOP SIGN (AHTD STANDARD DRAWINGS)

GENERAL NOTES:

1. SEE SHEETS C-101 & C-102 FOR SITE DIMENSION & COORDINATES.
2. REFER TO ARCHITECTURAL SHEETS FOR PICNIC PAVILION PAD INFORMATION.

PARKING SPACES

23 – PUBLIC PARKING SPACES
2 – ADA PARKING SPACES
7 – RV PARKING SPACES
4 – EMPLOYEE PARKING SPACES

SITE SYMBOL LEGEND

UTILITY OR FEATURE	EXISTING	PROPOSED	UTILITY OR FEATURE	EXISTING	PROPOSED
POWER POLE			POTABLE WATER	W	WTR
PARKING LOT LIGHT			SANITARY SEWER	SS	SS
LIGHT POLE			SANITARY FORCED MAIN	FM	FM
WATER VALVE			SITE GAS	GAS	GAS
SAN. SEWER MANHOLE			O/H ELECTRIC SERVICE	OHE	OHE
TRANSFORMER			U/G ELECTRIC SERVICE	UGE	UGE
WATER METER			EASEMENT	E	E
GAS METER			U/G TELEVISION CABLE	UGTV	UGTV
FIRE HYDRANT			U/G TELEPHONE	UGT	UGT
DROP INLET			U/G FIBER OPTIC CABLE	UGFO	UGFO
TREE			PROPERTY LINE	PL	PL
TREE TO BE REMOVED OR TRANSPLANTED			RIGHT-OF-WAY	R/W	R/W
TRANSPLANT SHRUB			ROADWAY CENTER LINE		
STORM SEWER			BUILDING SET BACK	BSL	BSL
TRASH CAN			FIRE LINE	FW	FW
BENCH			EROSION CONTROL		
SIGN			SILT FENCE	SF	SF
YARD HYDRANT			FENCES		
DRINKING FOUNTAIN			OVERLAND GROUND WATER FLOW		
SMOKE URN			PROJECT BOUNDRY		
CURB STOP			INDEX CONTOURS	1318	1318
			INTERMEDIATE CONTOURS	1318	1318
			GUY WIRE		
			CURB AND GUTTER		
			TRAFFIC FLOW ARROW		
			CONCRETE		
			FLARED END SECTION		
			RIP RAP		
			ASPHALT PAVING		
			COMPACTED CLASS 7 AGG. BASE		

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/2011

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

FLOOD STATEMENT

ACCORDING TO THE FLOOD INSURANCE RATE MAP (F.I.R.M.) OF PHILLIPS COUNTY, ARKANSAS COMMUNITY–PANEL NUMBER 05107 C0240E, EFFECTIVE DATED OCTOBER 6, 2010. IT IS NOTED THAT THE AREA IS OUTSIDE OF THE DESIGNATED FLOODPLAIN OR FLOODWAY OF THE 100–YEAR FLOOD EVENT.

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0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

SITE PLAN

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-100
REV	0

5 OF 120

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-100 SITE PLAN.dwg Saved: 8/12/2011 2:58:47 PM By: grafp
Xrefs: ..\0160_G-BS01.DWG ..\0160_C-SP.dwg ..\0160_C-GP.DWG ..\0160_C-UP.DWG ..\0160_C-SV.DWG

CONTROL	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 901	1983467.20	1732558.79	231.73	BENCHMARK
CTL 5	1983490.71	1732766.13	230.67	5/8" REBAR W/2"CAP
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PLAN NORTH

30 0 15 30

SCALE: 1"=30'

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0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

STAKING & DIMENSION CONTROL PLAN

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-101
REV	0
	6 OF 120

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER ★★★ No. 8165 MICHAEL SMITH

CERTIFICATE OF AUTHORIZATION SAIC Energy, Environment & Infrastructure, LLC No. 510 ARKANSAS

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	1983648.85	1732550.06	BUILDING CORNER
2	1983670.80	1732533.23	BUILDING CORNER
3	1983701.01	1732552.90	BUILDING CORNER
4	1983715.62	1732571.95	BUILDING CORNER
5	1983726.79	1732606.23	BUILDING CORNER
6	1983704.83	1732623.07	BUILDING CORNER
7	1983678.85	1732612.74	BUILDING CORNER
8	1983652.08	1732577.83	BUILDING CORNER
9	1983661.02	1732603.74	SIDEWALK
10	1983656.15	1732597.39	SIDEWALK
11	1983643.38	1732580.72	SIDEWALK
12	1983646.42	1732584.69	SIDEWALK
13	1983639.93	1732576.23	SIDEWALK
14	1983677.25	1732624.90	SIDEWALK
15	1983651.57	1732567.30	SIDEWALK
16	1983688.89	1732615.97	SIDEWALK
17	1983624.33	1732595.33	SIDEWALK
18	1983656.58	1732637.38	SIDEWALK
19	1983648.76	1732653.47	SIDEWALK
20	1983644.94	1732595.91	SIDEWALK
21	1983604.94	1732596.34	SIDEWALK
22	1983571.52	1732565.91	SIDEWALK
23	1983586.16	1732620.82	SIDEWALK
24	1983636.78	1732682.82	SIDEWALK
25	1983664.29	1732686.87	SIDEWALK
26	1983597.11	1732612.42	SIDEWALK
27	1983645.80	1732675.90	SIDEWALK
28	1983627.86	1732678.18	SIDEWALK
29	1983642.23	1732555.13	SIDEWALK
30	1983698.22	1732628.14	SIDEWALK
31	1983706.12	1732638.44	SIDEWALK
32	1983636.15	1732547.20	SIDEWALK
33	1983626.10	1732533.27	SIDEWALK
34	1983712.89	1732668.09	SIDEWALK
35	1983567.32	1732503.35	SIDEWALK
36	1983709.21	1732685.75	SIDEWALK
37	1983574.77	1732558.80	SIDEWALK
38	1983660.25	1732681.60	SIDEWALK
39	1983716.45	1732690.26	SIDEWALK
40	1983753.17	1732697.93	SIDEWALK
41	1983764.90	1732698.79	SIDEWALK
42	1983812.58	1732651.91	SIDEWALK
43	1983811.03	1732639.22	SIDEWALK
44	1983792.62	1732580.92	SIDEWALK
45	1983781.33	1732575.04	SIDEWALK
46	1983727.83	1732585.02	SIDEWALK
47	1983724.55	1732585.26	SIDEWALK
48	1983744.39	1732586.68	SIDEWALK
49	1983699.19	1732534.59	SIDEWALK
50	1983708.43	1732506.78	SIDEWALK
51	1983698.37	1732474.90	SIDEWALK
52	1983681.27	1732477.15	SIDEWALK
53	1983679.77	1732472.38	SIDEWALK
54	1983693.11	1732468.18	SIDEWALK
55	1983695.07	1732464.41	SIDEWALK
56	1983693.71	1732460.13	SIDEWALK
57	1983688.19	1732457.58	SIDEWALK
58	1983685.62	1732449.44	SIDEWALK
59	1983688.68	1732444.18	SIDEWALK
60	1983674.41	1732398.90	SIDEWALK
61	1983640.36	1732377.55	SIDEWALK

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
62	1983640.46	1732400.44	SIDEWALK
63	1983635.51	1732401.11	SIDEWALK
64	1983633.18	1732383.94	SIDEWALK
65	1983637.82	1732380.93	SIDEWALK
66	1983628.57	1732381.83	SIDEWALK
67	1983572.69	1732452.22	SIDEWALK
68	1983574.54	1732456.09	SIDEWALK
69	1983586.82	1732460.27	SIDEWALK
70	1983585.31	1732465.04	SIDEWALK
71	1983573.13	1732460.89	SIDEWALK
72	1983569.27	1732462.93	SIDEWALK
73	1983564.24	1732495.22	SIDEWALK
74	1983567.18	1732498.34	SIDEWALK
75	1983564.25	1732506.46	SIDEWALK
76	1983763.35	1732683.19	SIDEWALK
77	1983758.39	1732682.56	SIDEWALK
78	1983705.60	1732688.06	SIDEWALK
79	1983714.12	1732686.71	SIDEWALK
80	1983726.58	1732744.47	SIDEWALK
81	1983723.31	1732760.13	SIDEWALK
82	1983728.20	1732761.15	SIDEWALK
83	1983731.47	1732745.49	SIDEWALK
84	1983822.54	1732730.18	SIDEWALK
85	1983832.74	1732742.69	SIDEWALK
86	1983836.62	1732739.53	SIDEWALK
87	1983826.50	1732727.12	SIDEWALK
88	1983799.80	1732587.04	SIDEWALK
89	1983800.45	1732584.11	SIDEWALK
90	1983800.57	1732576.58	SIDEWALK
91	1983795.86	1732576.12	SIDEWALK
92	1983806.51	1732577.50	SIDEWALK
93	1983746.14	1732506.59	SIDEWALK
94	1983756.28	1732510.24	SIDEWALK
95	1983713.64	1732489.67	SIDEWALK
96	1983709.40	1732493.23	SIDEWALK
97	1983701.02	1732539.92	SIDEWALK
98	1983700.54	1732544.07	SIDEWALK
99	1983696.75	1732547.35	SIDEWALK
100	1983692.55	1732546.79	SIDEWALK
101	1983681.76	1732547.51	SIDEWALK
102	1983719.88	1732577.50	SIDEWALK
103	1983719.32	1732581.71	SIDEWALK
104	1983715.83	1732591.95	SIDEWALK
105	1983761.79	1732695.41	SIDEWALK
106	1983756.76	1732695.37	SIDEWALK
107	1983657.22	1732428.99	PAD CORNER
108	1983626.95	1732433.09	PAD CORNER
109	1983653.12	1732398.72	PAD CORNER
110	1983622.85	1732402.82	PAD CORNER
111	1983678.12	1732467.13	PAD CORNER
112	1983662.85	1732471.94	PAD CORNER
113	1983667.66	1732487.20	PAD CORNER
114	1983682.92	1732482.39	PAD CORNER
115	1983770.82	1732668.02	PAD CORNER
116	1983768.80	1732683.89	PAD CORNER
117	1983752.93	1732681.87	PAD CORNER
118	1983754.95	1732666.00	PAD CORNER
119	1983583.46	1732470.32	PAD CORNER
120	1983598.60	1732475.47	PAD CORNER
121	1983603.76	1732460.33	PAD CORNER
122	1983588.61	1732455.17	PAD CORNER

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
123	1983828.48	1732746.16	PAD CORNER
124	1983838.59	1732758.56	PAD CORNER
125	1983850.99	1732748.45	PAD CORNER
126	1983840.88	1732736.05	PAD CORNER
127	1983733.59	1732762.28	PAD CORNER
128	1983730.32	1732777.94	PAD CORNER
129	1983714.66	1732774.67	PAD CORNER
130	1983717.93	1732759.01	PAD CORNER
131	1983467.22	1732703.47	BACK OF CURB
132	1983517.50	1732729.92	BACK OF CURB
133	1983518.65	1732729.55	BACK OF CURB
134	1983551.87	1732688.72	BACK OF CURB
135	1983519.92	1732551.51	BACK OF CURB
136	1983648.15	1732316.69	BACK OF CURB
137	1983669.41	1732309.99	BACK OF CURB
138	1983707.80	1732306.74	BACK OF CURB
139	1983728.79	1732295.06	BACK OF CURB
140	1983730.30	1732291.67	BACK OF CURB
141	1983741.57	1732266.36	BACK OF CURB
142	1983745.28	1732258.04	BACK OF CURB
143	1983759.89	1732264.54	BACK OF CURB
144	1983756.18	1732272.88	BACK OF CURB
145	1983744.91	1732298.18	BACK OF CURB
146	1983743.87	1732300.53	BACK OF CURB
147	1983749.87	1732324.45	BACK OF CURB
148	1983779.77	1732367.44	BACK OF CURB
149	1983655.25	1732636.36	RADIUS POINT
150	1983798.00	1732430.19	CURB OUTLET
151	1983695.51	1732475.81	3' RADIUS POINT
152	1983682.65	1732594.53	BACK OF CURB
153	1983856.35	1732615.08	CURB OUTLET
154	1983764.77	1732695.79	3' RADIUS POINT
155	1983692.20	1732465.32	3' RADIUS POINT
156	1983753.78	1732694.99	3' RADIUS POINT
157	1983742.03	1732747.70	BACK OF CURB
158	1983709.04	1732740.81	BACK OF CURB
159	1983582.83	1732747.08	BACK OF CURB
160	1983527.55	1732764.49	BACK OF CURB
161	1983501.34	1732814.45	BACK OF CURB
162	1983629.56	1732706.77	BACK OF CURB
163	1983647.18	1732706.21	BACK OF CURB
164	1983652.20	1732701.34	BACK OF CURB
165	1983652.61	1732686.30	BACK OF CURB
166	1983745.77	1732701.49	BACK OF CURB
167	1983742.71	1732716.18	BACK OF CURB
168	1983746.59	1732722.09	BACK OF CURB
169	1983783.34	1732720.93	BACK OF CURB
170	1983786.66	1732714.41	BACK OF CURB
171	1983781.57	1732700.49	BACK OF CURB
172	1983809.47	1732677.74	BACK OF CURB
173	1983821.98	1732685.63	BACK OF CURB
174	1983829.07	1732683.72	BACK OF CURB
175	1983834.20	1732626.26	BACK OF CURB
176	1983825.85	1732599.76	BACK OF CURB
177	1983818.90	1732588.85	BACK OF CURB
178	1983802.82	1732574.12	BACK OF CURB
179	1983809.12	1732567.25	BACK OF CURB
180	1983812.71	1732570.53	BACK OF CURB
181	1983815.97	1732568.45	BACK OF CURB
182	1983814.43	1732563.57	BACK OF CURB
183	1983783.07	1732547.25	BACK OF CURB

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
184	1983778.29	1732548.75	BACK OF CURB
185	1983775.01	1732555.02	BACK OF CURB
186	1983779.53	1732569.32	BACK OF CURB
187	1983745.21	1732580.13	BACK OF CURB
188	1983740.69	1732565.83	BACK OF CURB
189	1983734.42	1732562.56	BACK OF CURB
190	1983720.00	1732567.11	BACK OF CURB
191	1983767.63	1732533.24	BACK OF CURB
192	1983786.45	1732527.31	BACK OF CURB
193	1983788.00	1732508.87	BACK OF CURB
194	1983772.79	1732505.69	BACK OF CURB
195	1983766.72	1732506.05	BACK OF CURB
196	1983748.45	1732502.16	BACK OF CURB
197	1983717.96	1732486.28	BACK OF CURB
198	1983700.75	1732465.77	BACK OF CURB
199	1983678.73	1732395.99	BACK OF CURB
200	1983598.96	1732372.70	BACK OF CURB
201	1983541.21	1732474.50	BACK OF CURB
202	1983545.53	1732480.24	BACK OF CURB
203	1983560.33	1732482.09	BACK OF CURB
204	1983564.31	1732539.42	BACK OF CURB
205	1983582.44	1732605.96	BACK OF CURB
206	1983567.96	1732609.89	BACK OF CURB
207	1983564.45	1732616.03	BACK OF CURB
208	1983579.14	1732669.96	BACK OF CURB
209	1983630.06	1732530.23	SIDEWALK
210	1983640.91	1732543.55	SIDEWALK
211	1983710.36	1732634.11	SIDEWALK
212	1983718.06	1732667.82	SIDEWALK
213	1983763.65	1732271.69	SIDEWALK
214	1983757.86	1732269.11	SIDEWALK
215	1983765.68	1732267.12	SIDEWALK
216	1983741.47	1732256.35	BUILDING CORNER
217	1983767.96	1732268.14	BUILDING CORNER
218	1983779.75	1732241.64	BUILDING CORNER
219	1983753.26	1732229.85	BUILDING CORNER
220	1983649.52	1732612.56	PAD CORNER
221	1983659.25	1732625.25	PAD CORNER
222	1983656.87	1732627.08	PAD CORNER
223	1983647.14	1732614.38	PAD CORNER
224	1983539.56	1732802.64	RADUIS POINT
225	1983505.47	1732691.77	RADUIS POINT
226	1983503.63	1732681.86	RADUIS POINT
227	1983657.94	1732985.53	RADUIS POINT
228	1983706.14	1732500.77	RADUIS POINT
229	1983631.05	1732411.04	RADUIS POINT
230	1983743.24	1732282.27	RADUIS POINT
231	1983762.68	1732648.83	RADUIS POINT
232	1983645.97	1732944.22	RADUIS POINT
233	1983565.39	1732579.82	RADUIS POINT
234	1983684.58	1732514.30	RADUIS POINT
235	1983735.92	1732567.33	RADUIS POINT
237	1983627.38	1732656.82	RADUIS POINT
238	1983647.20	1732701.21	RADUIS POINT
239	1983747.61	1732717.20	RADUIS POINT
240	1983781.97	1732716.12	RADUIS POINT
241	1983824.64	1732681.40	RADUIS POINT
242	1983802.01	1732607.28	RADUIS POINT
243	1983814.06	1732569.06	RADUIS POINT
244	1983790.58	1732571.09	RADUIS POINT
245	1983783.45	1732517.77	RADUIS POINT

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
246	1983774.56	1732535.13	RADUIS POINT
247	1983764.62	1732471.11	RADUIS POINT
248	1983734.13	1732455.24	RADUIS POINT
249	1983644.84	1732408.23	RADUIS POINT
250	1983630.21	1732384.34	3' RADIUS POINT
251	1983640.79	1732380.52	3' RADIUS POINT
252	1983575.51	1732453.25	3' RADIUS POINT
253	1983572.16	1732463.73	3' RADIUS POINT
254	1983567.24	1732495.34	3' RADIUS POINT
255	1983567.25	1732506.34	3' RADIUS POINT
256	1983569.27	1732614.72	RADUIS POINT
257	1983779.78	1732553.52	RADUIS POINT
258	1983784.04	1732583.63	RADUIS POINT
259	1983777.65	1732649.76	RADUIS POINT
260	1983706.28	1732685.14	3' RADIUS POINT
261	1983717.06	1732687.32	3' RADIUS POINT
262	1983677.16	1732660.65	RADUIS POINT
263	1983717.50	1732579.33	3' RADIUS POINT
264	1983726.37	1732587.64	3' RADIUS POINT
265	1983694.37	1732549.18	3' RADIUS POINT
266	1983702.92	1732542.24	3' RADIUS POINT
267	1983712.26	1732492.33	3' RADIUS POINT
268	1983762.14	1732308.66	RADUIS POINT
269	1983710.52	1732286.92	RADUIS POINT
270	1983863.52	1732612.81	CURB OUTLET
271	1983805.17	1732427.93	CURB OUTLET
272	1983546.15	1732475.28	RADIUS POINT
273	1983695.85	1732393.92	RADIUS POINT
274	1983753.13	1732369.38	PARKING STRIPE
275	1983788.88	1732482.64	PARKING STRIPE
276	1983723.25	1732448.47	PARKING STRIPE
277	1983687.50	1732335.20	PARKING STRIPE
278	1983798.39	1732574.58	3' RADIUS POINT
279	1983802.66	1732586.14	3' RADIUS POINT
280	1983655.63	1732622.99	FLAG POLE
281	1983650.76	1732616.65	FLAG POLE

STATE OF ARKANSAS
MICHAEL SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 8165
8/12/11

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

STAKING NODE LIST

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

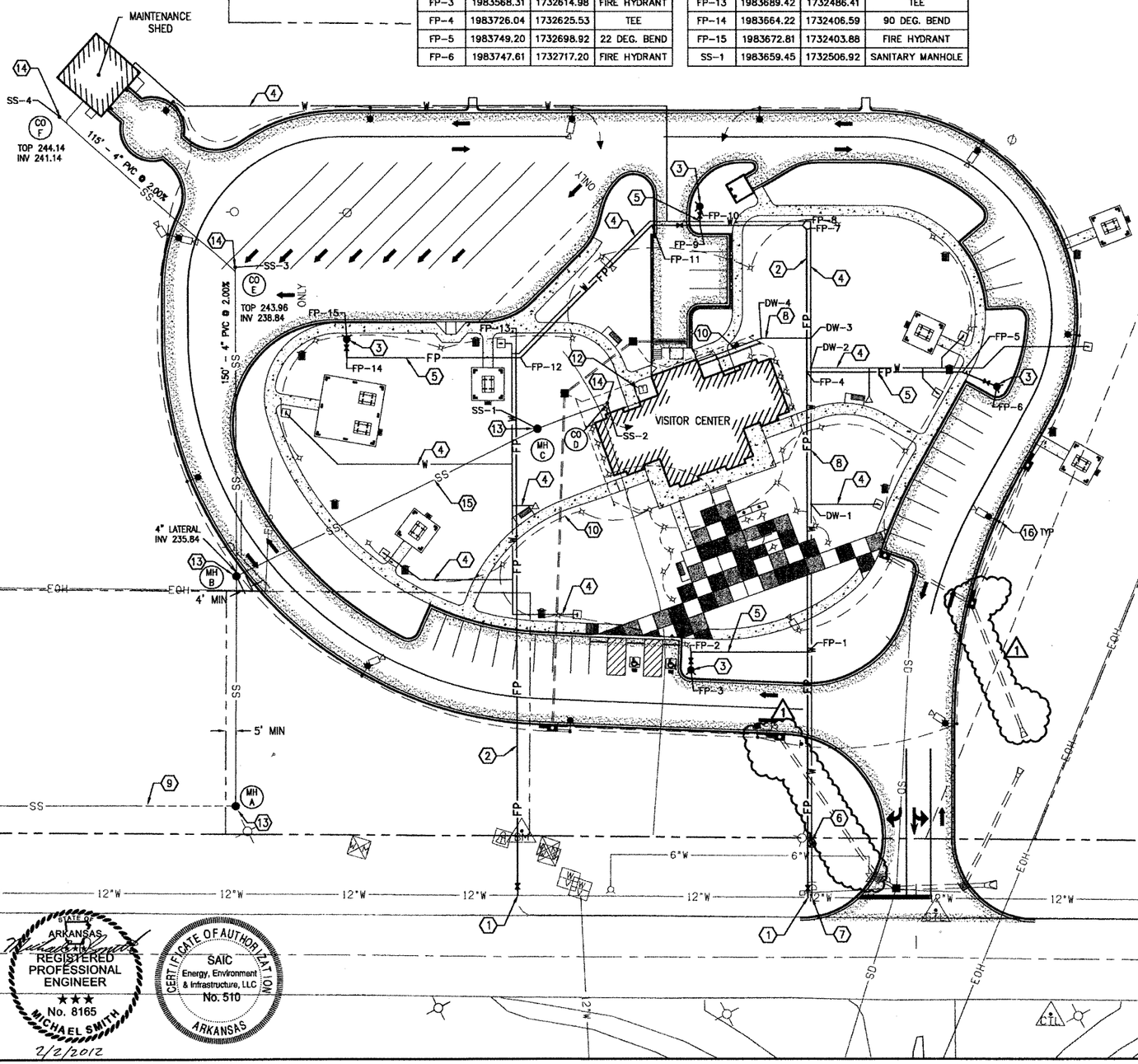
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-102
REV	0
	7 OF 120

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-102 STAKING NODE LIST.dwg Saved: 8/11/2011 2:22:19 PM By: grafp
Xrefs: ..\0160_C-BSD1.DWG ..\0160_C-COORDS.DWG

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
DW-1	1983664.55	1732647.03	TEE
DW-2	1983728.55	1732626.83	TEE
DW-3	1983742.43	1732622.45	TEE
DW-4	1983735.09	1732599.20	BEND
FP-1	1983594.20	1732667.14	TEE
FP-2	1983576.89	1732612.27	90 DEG. BEND
FP-3	1983568.31	1732614.98	FIRE HYDRANT
FP-4	1983726.04	1732625.53	TEE
FP-5	1983749.20	1732698.92	22 DEG. BEND
FP-6	1983747.61	1732717.20	FIRE HYDRANT

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
FP-7	1983792.79	1732604.46	45 DEG. BEND
FP-8	1983794.09	1732601.95	45 DEG. BEND
FP-9	1983778.90	1732553.80	TEE
FP-10	1983787.95	1732550.94	FIRE HYDRANT
FP-11	1983771.73	1732531.10	45 DEG. BEND
FP-12	1983690.12	1732488.65	45 DEG. BEND
FP-13	1983689.42	1732486.41	TEE
FP-14	1983664.22	1732406.59	90 DEG. BEND
FP-15	1983672.81	1732403.88	FIRE HYDRANT
SS-1	1983659.45	1732506.92	SANITARY MANHOLE

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
SS-2	1983681.93	1732536.24	SANITARY CLEANOUT
SS-3	1983690.15	1732341.27	SANITARY CLEANOUT
SS-4	1983735.00	1732236.81	SANITARY CLEANOUT



PLAN NORTH

811 Know what's below. Call before you dig.

30 0 15 30

SCALE: 1"=30'

KEYED NOTES (THIS SHEET):

1. CONNECT 8" WATER LINE TO EXISTING 12" C.I. WATER MAIN (FIELD VERIFY LOCATION AND DEPTH)
2. 8" WATER LINE
3. FIRE HYDRANT (DETAIL 2, SHEET C-501)
4. 1 1/2" DOMESTIC WATER LINE
5. 6" WATER LINE
6. WATER METER (SEE DETAIL 5, SHEET C-501)
7. CONNECT 4" WATER LINE TO EXISTING 12" WATER LINE
8. 4" DOMESTIC WATER LINE
9. CONNECT TO EXISTING SANITARY SEWER (FIELD VERIFY LOCATION AND DEPTH)
10. 2" GEOTHERMAL SUPPLY & RETURN PIPING (SEE MECH PLANS)
11. UNDERGOUND ELECTRICAL CONDUIT (SEE ELEC PLANS)
12. UTILITY TRANSFORMER (SEE ELEC PLANS)
13. REINFORCED CONCRETE SANITARY MANHOLE DETAIL (SEE DETAIL 2, SHEET C-504)
14. SEWER CLEANOUT (SEE DETAIL 1, SHEET C-503)
15. 8" SANITARY SEWER
16. SITE LIGHTING & CAMERAS (SEE ELEC PLANS)

GENERAL NOTES:

1. MAINTAIN A MINIMUM OF 30" COVER OVER WATER MAIN AND WATER SERVICES.
2. KEEP A MINIMUM OF 18" CLEARANCE AT SANITARY SEWER AND WATER SERVICE CROSSINGS.
3. SEE LANDSCAPE PLANS FOR IRRIGATION LINE INFORMATION.
4. SEE SHEET C-510 FOR SANITARY SEWER PROFILE.
5. SEE GRADING & DRAINAGE PLAN FOR STORM SEWER INFORMATION.
6. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

SITE SYMBOL LEGEND

UTILITY OR FEATURE	EXISTING	PROPOSED
POWER POLE		
PARKING LOT LIGHT		
LIGHT POLE		
WATER VALVE		
SAN. SEWER MANHOLE		
TRANSFORMER		
WATER METER		
GAS METER		
FIRE HYDRANT		
DROP INLET		
TREE		
TREE TO BE REMOVED OR TRANSPLANTED		
TRANSPLANT SHRUB		
STORM SEWER		
TRASH CAN		
BENCH		
SIGN		
YARD HYDRANT		
DRINKING FOUNTAIN		
SMOKE URN		
CURB STOP		

UTILITY OR FEATURE	EXISTING	PROPOSED
POTABLE WATER	WTR	WTR
SANITARY SEWER	-SS-	SS
SANITARY FORCED MAIN	FM	FM
SITE GAS	GAS	GAS
O/H ELECTRIC SERVICE	OHE	OHE
U/G ELECTRIC SERVICE	UGE	UGE
EASEMENT		
U/G TELEVISION CABLE	UGTV	UGTV
U/G TELEPHONE	UGT	UGT
U/G FIBER OPTIC CABLE	UGFO	UGFO
PROPERTY LINE	PL	PL
RIGHT-OF-WAY	R/W	R/W
ROADWAY CENTER LINE		
BUILDING SET BACK	BSL	BSL
FENCE LINE	FW	FW
EROSION CONTROL		
SILT FENCE	SF	SF
FENCES		
OVERLAND GROUND WATER FLOW		
PROJECT BOUNDRY		
INDEX CONTOURS	1318	1318
INTERMEDIATE CONTOURS	1318	1318
GUY WIRE		
CURB AND GUTTER		
TRAFFIC FLOW ARROW		
CONCRETE		
FLARED END SECTION		
RIP RAP		
ASPHALT PAVING		
COMPACTED CLASS 7 AGG. BASE		

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
2/2/2012

CERTIFICATE OF AUTHORIZATION
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No. 510
ARKANSAS

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1	02/01/12	ADDENDUN NO. 1		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

UTILITY PLAN

DESIGNED BY	MJS
DRAWN BY	PMC
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-110
REV	1
8 OF 120	

Filename: P:\LDW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\CA\C-110 UTILITY PLAN.dwg Saved: 8/12/2011 3:59:10 PM By: grofp
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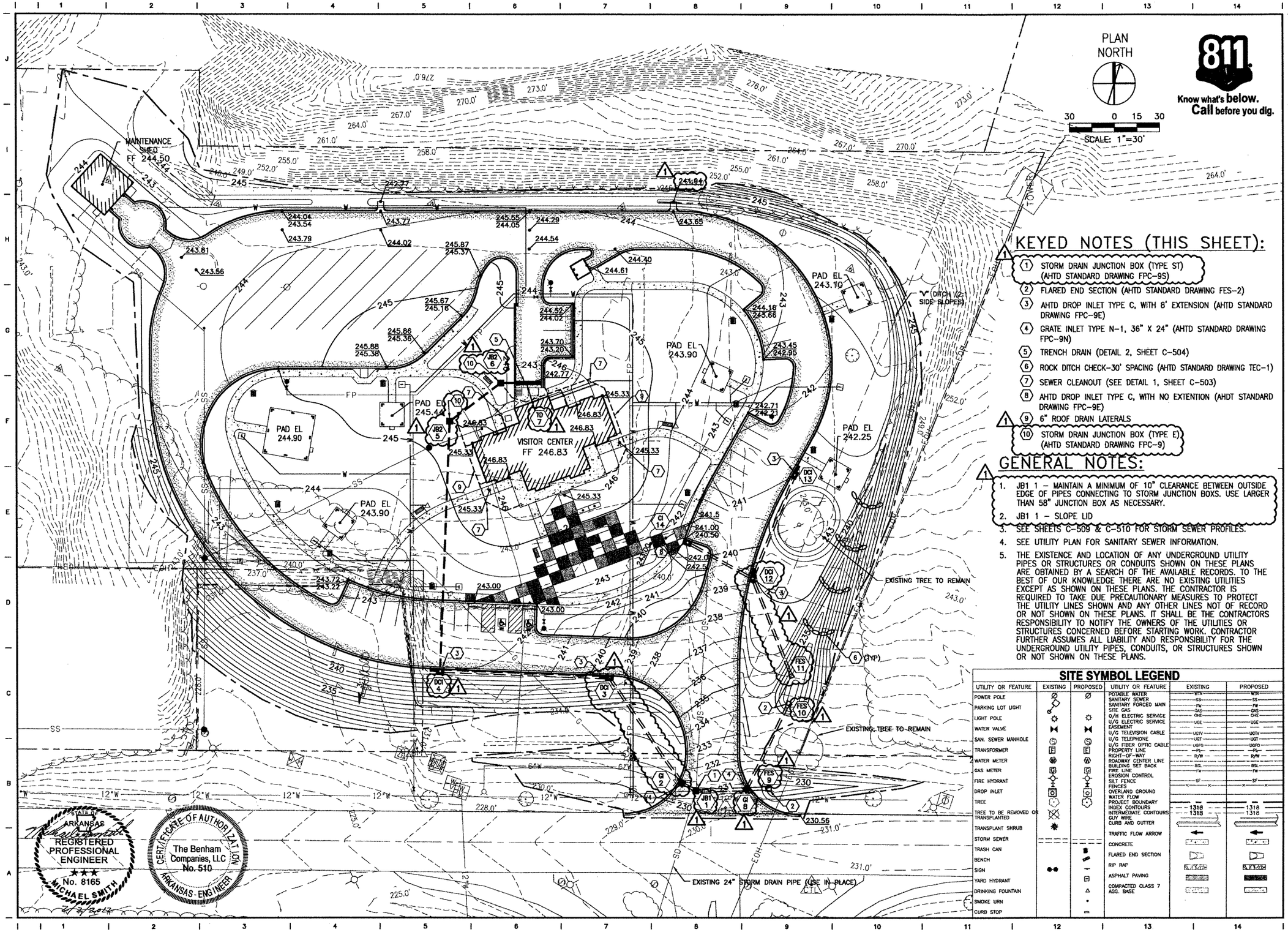

811 Know what's below. Call before you dig.

KEYED NOTES (THIS SHEET):

1
1. STORM DRAIN JUNCTION BOX (TYPE ST) (AHTD STANDARD DRAWING FPC-9S)
2. FLARED END SECTION (AHTD STANDARD DRAWING FES-2)
3. AHTD DROP INLET TYPE C, WITH 6' EXTENSION (AHTD STANDARD DRAWING FPC-9E)
4. GRATE INLET TYPE N-1, 36" X 24" (AHTD STANDARD DRAWING FPC-9N)
5. TRENCH DRAIN (DETAIL 2, SHEET C-504)
6. ROCK DITCH CHECK-30' SPACING (AHTD STANDARD DRAWING TEC-1)
7. SEWER CLEANOUT (SEE DETAIL 1, SHEET C-503)
8. AHTD DROP INLET TYPE C, WITH NO EXTENTION (AHDT STANDARD DRAWING FPC-9E)
9. 6" ROOF DRAIN LATERALS
10. STORM DRAIN JUNCTION BOX (TYPE E) (AHTD STANDARD DRAWING FPC-9)

GENERAL NOTES:

1
1. JB1 1 – MAINTAIN A MINIMUM OF 10" CLEARANCE BETWEEN OUTSIDE EDGE OF PIPES CONNECTING TO STORM JUNCTION BOXS. USE LARGER THAN 58" JUNCTION BOX AS NECESSARY.
2. JB1 1 – SLOPE LID
3. SEE SHEETS C-509 & C-510 FOR STORM SEWER PROFILES.
4. SEE UTILITY PLAN FOR SANITARY SEWER INFORMATION.
5. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

SITE SYMBOL LEGEND

UTILITY OR FEATURE	EXISTING	PROPOSED	UTILITY OR FEATURE	EXISTING	PROPOSED
POWER POLE	⌀	⌀	POTABLE WATER	WTR	WTR
PARKING LOT LIGHT			SANITARY SEWER	SS	SS
LIGHT POLE	☼	☼	SANITARY FORCED MAIN	FM	FM
WATER VALVE	⋈	⋈	SITE GAS	GAS	GAS
SAN. SEWER MANHOLE	Ⓢ	Ⓢ	O/H ELECTRIC SERVICE	OHE	OHE
TRANSFORMER	E	E	U/G ELECTRIC SERVICE	UGE	UGE
WATER METER	W	W	EASEMENT		
GAS METER	G	G	U/G TELEVISION CABLE	UGTV	UGTV
FIRE HYDRANT			U/G TELEPHONE	UGT	UGT
DROP INLET			U/G FIBER OPTIC CABLE	UGFO	UGFO
TREE			PROPERTY LINE	PL	PL
TREE TO BE REMOVED OR TRANSPLANTED			RIGHT-OF-WAY	R/W	R/W
TRANSPLANT SHRUB			ROADWAY CENTER LINE		
STORM SEWER			BUILDING SET BACK	BSL	BSL
TRASH CAN			FIRE LINE	FW	FW
BENCH			EROSION CONTROL SILT FENCE	SF	SF
SIGN			FENCES		
YARD HYDRANT			OVERLAND GROUND WATER FLOW		
DRINKING FOUNTAIN			PROJECT BOUNDARY		
SMOKE URN			INDEX CONTOURS	1318	1318
CURB STOP			INTERMEDIATE CONTOURS	1318	1318
			GUY WIRE		
			CURB AND GUTTER		
			TRAFFIC FLOW ARROW		
			CONCRETE		
			FLARED END SECTION		
			RIP RAP		
			ASPHALT PAVING		
			COMPACTED CLASS 7 AGG. BASE		

STATE OF ARKANSAS
MICHAEL SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 8165
9/2/2012

CERTIFICATE OF AUTHORIZATION
The Benham Companies, LLC
No. 510
ARKANSAS ENGINEER

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
1	02/01/12	ADDENDUM NO. 1		
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

GRADING AND DRAINAGE

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-120
REV	1
9 OF 120	

Filename: P:\LOW\FAC\6351016000_AHTDWesthelena\20_DESGN\40_CAD\C\C-120 GRADING AND DRAINAGE.dwg Saved: 8/12/2011 2:40:14 PM By: gratp
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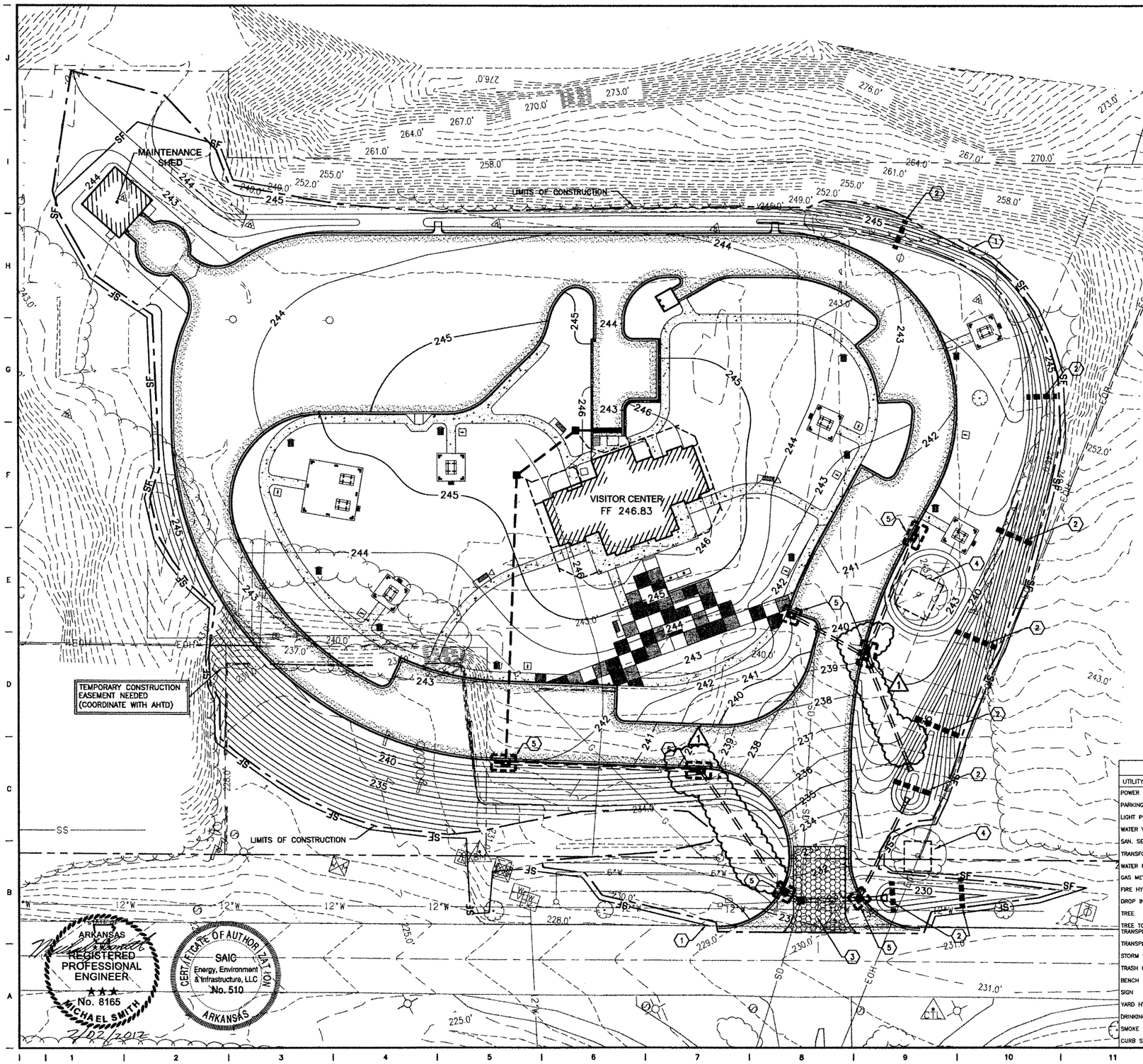

PLAN NORTH

30 0 15 30

SCALE: 1"=30'

811 Know what's below. Call before you dig.

KEYED NOTES (THIS SHEET):

1. SILT FENCE (AHTD STANDARD DRAWING TEC-1)
2. SAND BAG DITCH CHECK (AHTD STANDARD DRAWING TEC-1)
3. TEMPORARY CONSTRUCTION ENTRANCE (DETAIL 1, SHEET C-511)
4. TREE PROTECTION FENCING (DETAIL 2, C-506)
5. DROP INLET SILT FENCE (AHTD STANDARD DRAWING TEC-1)

GENERAL NOTES:

1. ALL EROSION CONTROL TO FOLLOW AHTD STANDARDS.

SITE SYMBOL LEGEND

UTILITY OR FEATURE	EXISTING	PROPOSED
POWER POLE		
PARKING LOT LIGHT		
LIGHT POLE		
WATER VALVE		
SAN. SEWER MANHOLE		
TRANSFORMER		
WATER METER		
GAS METER		
FIRE HYDRANT		
DROP INLET		
TREE		
TREE TO BE REMOVED OR TRANSPLANTED		
TRANSPLANT SHRUB		
STORM SEWER		
TRASH CAN		
BENCH		
SIGN		
YARD HYDRANT		
DRINKING FOUNTAIN		
SMOKE URN		
CURB STOP		

UTILITY OR FEATURE	EXISTING	PROPOSED
POTABLE WATER	WTR	WTR
SANITARY SEWER	SS	SS
SANITARY FORCED MAIN	FM	FM
SITE GAS	GAS	GAS
O/H ELECTRIC SERVICE	OHE	OHE
U/G ELECTRIC SERVICE	UGE	UGE
EASEMENT		
U/G TELEVISION CABLE	UGTV	UGTV
U/G TELEPHONE	UGT	UGT
U/G FIBER OPTIC CABLE	UGFO	UGFO
PROPERTY LINE	PL	PL
RIGHT-OF-WAY	R/W	R/W
ROADWAY CENTER LINE		
BUILDING SET BACK	BSL	BSL
FIRE LINE	FW	FW
EROSION CONTROL		
SILT FENCE	SF	SF
FENCES	X X	X X
OVERLAND GROUND WATER FLOW		
PROJECT BOUNDARY		
INDEX CONTOURS	1318	1318
INTERMEDIATE CONTOURS	1318	1318
GUY WIRE		
CURB AND GUTTER		
TRAFFIC FLOW ARROW		
CONCRETE		
FLARED END SECTION		
RIP RAP		
ASPHALT PAVING		
COMPACTED CLASS 7 AGG. BASE		

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 8165 MICHAEL SMITH 7/27/2012

CERTIFICATE OF AUTHORIZATION SAIC Energy, Environment & Infrastructure, LLC No. 510 ARKANSAS

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

TEMPORARY EROSION CONTROL PLAN

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-130
REV	1
10 OF 120	

Filename: P:\LOW_FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-130 EROSION CONTROL PLAN.dwg Saved: 8/15/2011 12:17:33 PM By: gratp
Xrefs: ..\0160_G-BSG1.DWG ..\0160_C-GP.DWG ..\0160_C-UP.DWG ..\0160_C-SV.DWG ..\0160_C-SP.DWG

LOOP ROAD
CURVE NO. 3
PI 8+08.20
N 1983744.82
E 1732299.86
R 75.00'
DELTA 89° 58' 04"
T 74.96'
L 117.77'
E 31.04'
(NO SUPER)

LOOP ROAD
CURVE NO. 4
PI 10+46.40
N 1983486.96
E 1732381.08
R 180.01'
DELTA 87° 45' 28"
T 173.10'
L 275.71'
E 69.72'
(NO SUPER)

LOOP ROAD
CURVE NO. 2
PI 4+37.11
N 1983891.84
E 1732765.70
R 88.00'
DELTA 119° 18' 36"
T 150.32'
L 183.25'
E 86.19'
(NO SUPER)

LOOP ROAD
CURVE NO. 1
PI 1+76.72
N 1983634.43
E 1732711.95
R 225.00'
DELTA 29° 16' 40"
T 58.77'
L 114.97'
E 7.55'
(NO SUPER)

LOOP ROAD INTERSECTION
STA 1+21.37 =
END LOOP ROAD 13+36.11
N 1983581.65
E 1732728.61

BEGIN LOOP ROAD
STA 0+00
N 1983465.88
E 1732765.05

VISITOR CENTER

PLAN NORTH

30 0 15 30
SCALE: 1"=30'

Know what's below. Call before you dig. 811

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PLAN & PROFILE LOOP ROAD I

BEGIN LOOP ROAD
0+19.32 LOOP ROAD
EL 230.17

LOOP ROAD INTERSECTION
STA 1+21.37 =
STA 13+36.11
EL 236.29

VPI 1+89.48
EL 240.38

K = 21
100.00' VC
HP STA 2+39.48
EL 241.03

VPI 5+12.45
EL 244.57

K = 121
200.00' VC
HP STA 5+69.75
EL 244.29

EXISTING GRADE
PROPOSED GRADE
6.00%
1.30%
-0.35%

MATCH LINE 7+00

230.09	232.20	236.32	240.21	243.04	242.99	243.71	243.86	244.13	243.70	244.35	244.44	244.55	244.69	244.98
230.09	232.01	235.01	237.98	240.15	241.16	241.81	242.46	243.11	243.70	244.09	244.28	244.26	244.09	243.91
0+00		1+00		2+00		3+00		4+00		5+00		6+00		

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No. 510
ARKANSAS

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REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/11

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-300
REV	0
11 OF 120	

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-300 PLAN & PROFILE LOOP ROAD I.dwg Saved: 8/12/2011 8:12:09 AM By: grafp
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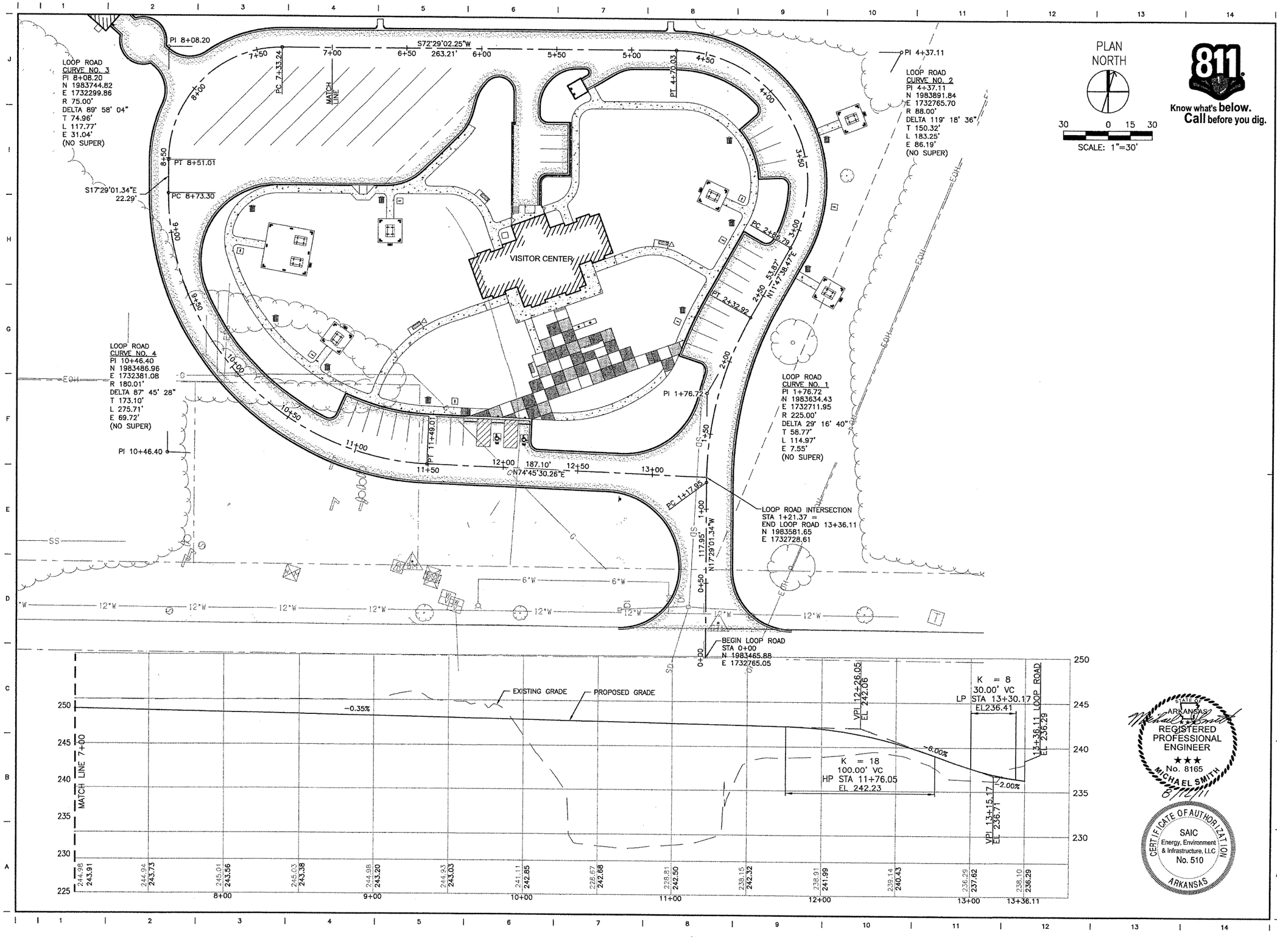

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PLAN & PROFILE LOOP ROAD II

STATE OF ARKANSAS
Michael Smith
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/11

CERTIFICATE OF AUTHORIZATION
SAIC
Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-301
REV	0
	12 OF 120

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GENERAL SITE NOTES:

1. CAUTION: UNDERGROUND UTILITIES LIE WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS, HOWEVER ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL MARK THE VISIBLE UTILITIES & THE UTILITIES SHOWN ON THE PLANS IN THE FIELD. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKING UNTIL THEY ARE NO LONGER NECESSARY. USE EXTREME CAUTION WHEN EXCAVATING.
2. DIMENSIONS ARE GIVEN TO BACK OF CURB, CENTER OF STRIPE, FACE OF BUILDING, EDGE OF PAVEMENT, OR PROPERTY LINE.
3. COORDINATES GIVEN FOR RADII ARE FROM THE CENTER OF THE CIRCLE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE APPROPRIATE BARRICADES AND SAFETY PRECAUTIONS IN ALL EXCAVATED AREAS. EXCAVATED AREAS SHALL BE ADEQUATELY FILLED OR COVERED BY THE CONTRACTOR BEFORE LEAVING THE JOB SITE EACH DAY.
5. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING STRUCTURES, PAVEMENTS, AND UTILITIES.
6. CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO THE SITE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN THE SITE IN AN ORDERLY AND CLEAN FASHION.
8. ALL WASTE MATERIALS GENERATED FROM CONSTRUCTION BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE THE WASTE MATERIALS FROM THE SITE AND DISPOSE OF MATERIALS IN A LEGAL MANNER.
9. PROVIDE HANDICAP ACCESS FOR ALL SIDEWALK CROSSINGS AT TURNOUTS. SIDEWALK CROSSINGS MUST MEET CURRENT ADA STANDARDS.
10. SEE ARCHITECTURAL PLANS FOR BUILDING ACCESS.
11. ALL REINFORCING STEEL SHALL BE GRADE A-60.

GENERAL UTILITY NOTES:

1. CAUTION: UNDERGROUND UTILITIES LIE WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS; HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKING UNTIL THEY ARE NO LONGER NECESSARY.
2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION AND SIZE FOR ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND COMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
6. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH PERFORMANCE CRITERIA FOR OSHA.
7. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET. OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES.
8. CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
9. CONTRACTOR SHALL COORDINATE UTILITY INSTALLATIONS WITH LOCAL GOVERNING AUTHORITIES. PAYMENT OF FEES REGARDING THE INSTALLATION OF UTILITIES (I.E. TAPPING FEES, PERMIT FEES, INSTALLATION FEES, METER FEES, ETC.) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER NOTES:

1. DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE LINE.
2. PIPE SIZES 4" AND LARGER SHALL BE PVC C-900 WATER PIPE. ALL FITTINGS 4" AND LARGER SHALL BE PVC CONFORMING TO ANSI AND AWWA STANDARD SPECIFICATIONS.
3. PIPE SIZES 3" AND SMALLER SHALL BE PVC. FITTINGS SHALL BE BRASS. SEE SPECIFICATIONS.
4. WHEN C-900 PVC IS USED, A NO. 8 BARE COPPER WIRE SHALL BE TAPED TO THE TOP SURFACE OF THE PIPE AND CONNECTED TO EACH FIRE HYDRANT BY ATTACHING TO A BOLT, JUST ABOVE GROUND LEVEL.
5. ALL IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED.
6. ALL MAIN LINES SHALL HAVE A MINIMUM OF THIRTY (30) INCHES AND A MAXIMUM OF EIGHT (8) FEET OF COVER.
7. BEDDING, BACKFILL, AND COMPACTION OVER WATER LINES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ROAD CLOSURES MUST BE COORDINATED A MINIMUM OF TWENTY FOUR (24) HOURS IN ADVANCE. ROADS WILL NOT BE CLOSED FOR OVER EIGHT (8) HOURS WITHOUT WRITTEN PERMISSION FROM THE DISTRICT ENGINEER.
9. THRUST BLOCKS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, AND FIRE HYDRANTS. SEE DETAILS.
10. REFERENCE ARCHITECTURAL PLANS FOR ALL BUILDING FIRE SERVICE AND DOMESTIC SERVICE CONNECTION LOCATIONS.
11. CONTRACTOR SHALL CONSTRUCT WATER SERVICES AS SHOWN, AND CONSTRUCT METERS, PITS, AND INSTALL CHECK VALVE. SERVICE LINES GREATER THAN 3/4 " SHALL REQUIRE BACKFLOW PREVENTER.
12. ALL VERTICAL BENDS ON WATER MAIN SHALL BE RESTRAINED WITH A MECHANICAL JOINT FITTING SUPPLIED WITH THE RETAINER GLANDS. ANY JOINTS 25 FEET OR LESS FROM EITHER SIDE OF VERTICAL BEND SHALL BE RESTRAINED WITH A RETAINER GLAND.
13. CONTRACTOR SHALL COORDINATE WITH THE CITY OF HELENA-WEST HELENA WATER AND SEWER DEPARTMENT FOR SERVICE TO THE SITE.

SANITARY SEWER NOTES:

1. DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE LINE.
2. REFERENCE ARCHITECTURAL PLANS FOR ALL BUILDING SERVICE CONNECTION LOCATIONS.
3. ALL STUB-OUTS AND WYE LATERALS SHALL BE PLUGGED WITH A STANDARD TYPE PLUG. TIE SKI ROPE TO A STAKE FOR TIE-IN REFERENCE.
4. COORDINATES OR DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR TO CENTER OF MANHOLE.
5. THE TOP ELEVATION OF ALL MANHOLES IN GRASSED AREAS SHALL BE 6" ABOVE FINISHED GRADE. THE TOP ELEVATION OF ALL MANHOLES IN PAVED AREAS WILL BE SET FLUSH WITH THE PAVEMENT.
6. THE SANITARY SEWER PIPE MATERIAL SHALL BE PVC, SDR-26, SEWER PIPE UNLESS NOTED ON PLAN.
7. CONTRACTOR SHALL COORDINATE WITH THE CITY OF HELENA-WEST HELENA WATER AND SEWER DEPARTMENT FOR SERVICE TO THE SITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL APPLICABLE FEES FOR SANITARY SEWER INSTALLATION INCLUDING, BUT NOT LIMITED TO, TAPPING FEES, ETC.

TELEPHONE AND COMMUNICATIONS NOTES:

1. REFERENCE ARCHITECTURAL DOCUMENTS FOR ALL BUILDING SERVICE CONNECTIONS.
2. ALL WORK SHALL BE COMPLETED TO AT&T SPECIFICATIONS AND STANDARDS. CONTACT AT&T TO DETERMINE COORDINATION & INSTALLATION REQUIREMENTS.

POWER NOTES:

1. REFERENCE ARCHITECTURAL DOCUMENTS FOR ALL BUILDING SERVICE CONNECTIONS.
2. ALL WORK SHALL BE COMPLETED TO CITY OF HELENA-WEST HELENA SPECIFICATIONS AND STANDARDS. CONTACT CITY OF HELENA-WEST HELENA (ROB VONDRAN) AT 870-261-6313 TO DETERMINE COORDINATION & INSTALLATION REQUIREMENTS.

NOTE

ALL ITEMS LABELED "PROPOSED" ARE NEW CONSTRUCTION ITEMS TO BE INSTALLED OR BUILT BY THE CONTRACTOR. CONTRACTOR SHALL INCLUDE ALL ITEMS TO BE INSTALLED AND/OR BUILT IN HIS/HER BASE BID.

UTILITY CONTACT LIST

WATER SERVICES
CITY OF HELENA-WEST HELENA
TERRY McGINISTER
WATER SUPERINTENDENT
PHONE: 870-817-7420

SANITARY SEWER
CITY OF HELENA-WEST HELENA
BOBBY JONES
SANITATION SUPERINTENDENT
870-572-5665

ELECTRIC SERVICES
ENTERGY
ROB VONDRAN
WEST HELENA ENGINEER
870-261-6313

COMMUNICATIONS
AT&T
800-222-0300

GENERAL GRADING/DRAINAGE NOTES:

1. PAVEMENT MARKINGS SHALL COMPLY WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U. S. DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATE EROSION CONTROL MEASURES. THESE MEASURES WILL SATISFY SECTION 109 OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND THE REQUIREMENTS OF THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY. EROSION CONTROL DEVICES WILL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. PERIMETER CONTROLS SHALL BE PLACED AS THE CLEARING AND GRUBBING OPERATIONS ARE STARTED.
3. SEED, FERTILIZE AND MULCH AREAS DISTURBED BY CONSTRUCTION (EXCEPT AREAS TO BE PAVED). COMPLY WITH THE STANDARDS SET FORTH IN THE STANDARD SPECIFICATIONS.
4. CONTRACTOR SHALL EMPLOY A QUALIFIED MATERIALS TESTING LABORATORY, ACCEPTABLE TO THE ENGINEER, TO PROVIDE TESTING SERVICES DURING CONSTRUCTION. TEST RESULTS SHALL BE PROMPTLY SENT TO THE OWNER/ENGINEER.
5. CONTRACTOR SHALL MAINTAIN BENCHMARKS ON SITE UNTIL THE END OF CONSTRUCTION.
6. ALL CONCRETE PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE WITH TYPE 3 BEDDING UNLESS OTHERWISE NOTED.

GENERAL NOTES FOR AHTD JOB NO. 110536:

1. GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
2. ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS UNDER JOB 110536.
3. ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE PROVIDED.
4. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
5. ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED IF AND WHERE DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO INSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
6. THIS PROJECT IS COVERED UNDER A NATIONWIDE 23 SECTION 404 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2003, FOR PERMIT REQUIREMENTS.
7. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210-UNCLASSIFIED EXCAVATION.
8. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

STATE OF ARKANSAS
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No. 8165
MICHAEL SMITH
8/12/2011

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SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

811 Know what's below. Call before you dig.

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

GENERAL NOTES

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
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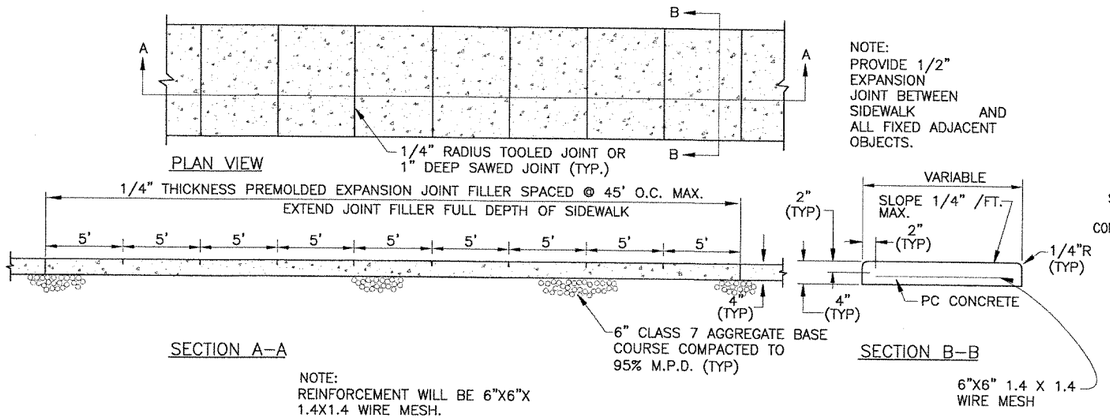
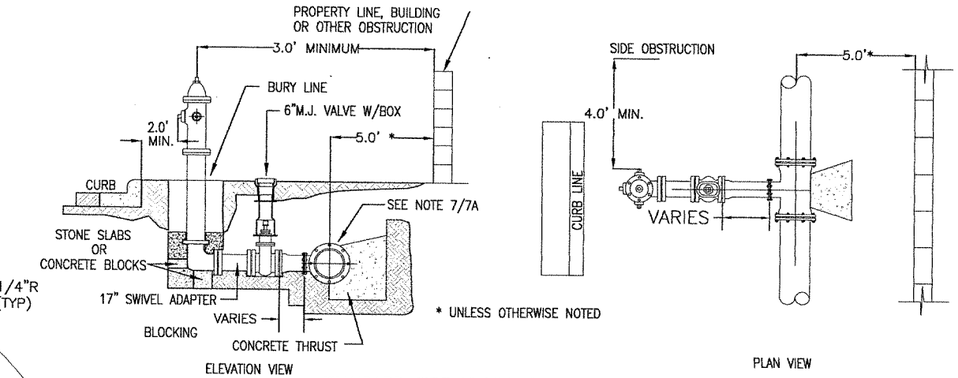
13 OF 120



NOTES:
1. EXPANSION MATERIAL SHALL BE REQUIRED AT 45' MAXIMUM SPACING.
2. THE SIDEWALK SHALL HAVE SAWED TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS. THE CONTRACTION JOINT SHALL BE ¼ DEPTH OF SIDEWALK THICKNESS AND 1/4" WIDE TOOLED JOINTS SHALL BE A MINIMUM OF 1" DEPTH.
3. SIDEWALK INTERSECTIONS MAKE SQUARE CONTRACTION JOINTS A MINIMUM OF 5'x5' AND A MAXIMUM OF 12'X12'.
4. ALL CONTRACTION JOINTS SHALL BE SEALED WITH SILICONE SEALER (TYPE 3).
5. ALL EXPANSION JOINTS SHALL HAVE ½" DEPTH SILICONE SEALER COVERING JOINT.
6. SIDEWALK MAY OR MAY NOT HAVE ADJACENT CURB AND GUTTER.
7. SIDEWALK TO BE MINIMUM 6" CONCRETE THROUGH ALL DRIVEWAYS.
8. SIDEWALKS NOT LOCATED IN DRIVEWAYS SHALL BE 4" UNLESS OTHERWISE NOTED IN PLANS.
9. SIDEWALKS SHALL HAVE LIGHT BROOM FINISH (CLASS 6).

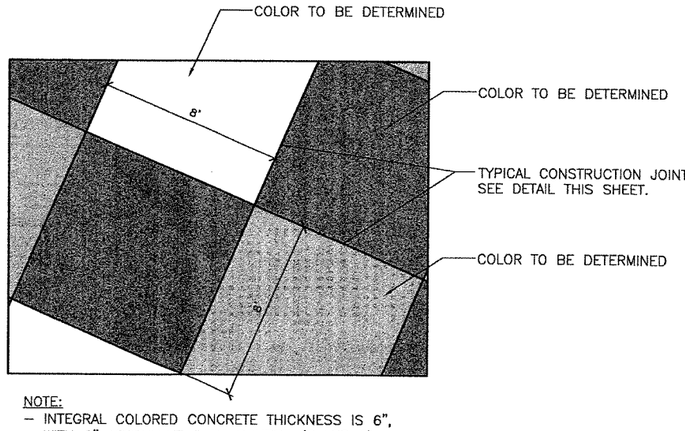
1 C-501 CONCRETE SIDEWALK N.T.S



STANDARD FIRE HYDRANT INSTALLATION
USE ANCHOR TEE (UNLESS OTHERWISE NOTED)

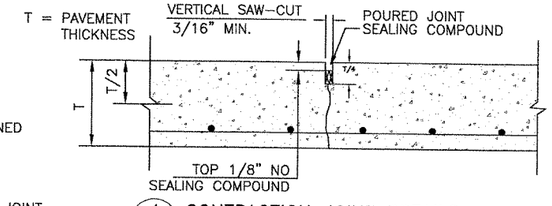
NOTES:
1. DRAINAGE BED SHALL CONSIST OF CRUSH STONE OR COURSE GRAVEL WITH COURSE SAND. MINIMUM VOLUME OF 6 CU. FT. DRAIN BED SHALL EXTEND A MINIMUM OF 6" ABOVE DRAIN OUTLET.
2. USE 6" D.I. NIPPLE WITH M.J. RETAINER GLANDS IF DISTANCE BETWEEN VALVE AND HYDRANT MUST BE GREATER THAN 17" SWIVEL ADAPTER.
3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
5. LARGE NOZZLE SHALL FACE CURB UNLESS OTHERWISE NOTED. ROTATE BARREL AS REQUIRED.
6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4.0' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
7. M.J. ANCHOR TEE, TAPPING SLEEVE OR TAPPING SADDLE MAY BE USED (SEE MATERIAL SPECIFICATIONS) WHEN USING REGULAR M.J. TEE USE 13" SWIVEL ADAPTER NIPPLE BETWEEN TEE AND VALVE.
8. HYDRANTS TO BE SET AT DEPTHS GREATER THAN 5.0' SHALL BE SET WITH A MODIFIED FIRE HYDRANT SETTING.

2 C-501 FIRE HYDRANT INSTALLATION N.T.S

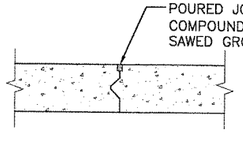


NOTE:
– INTEGRAL COLORED CONCRETE THICKNESS IS 6", WITH 6" AGGREGATE BASE COURSE (CLASS 7)
– SEE DETAIL 1/C-501 FOR REINFORCEMENT

3 C-501 INTEGRALLY COLORED CONCRETE WALK DETAIL N.T.S

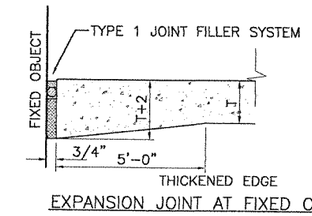


4 C-501 CONTRACTION JOINT DETAILS N.T.S

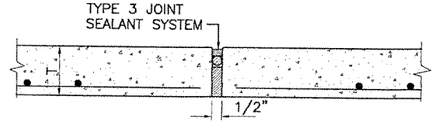


NOTE:
1. THICKNESS OF CONCRETE VARIES, 6" FOR COLORED CONCRETE AND 8" FOR CONCRETE PAVEMENT.

5 C-501 KEYWAY DETAIL FOR CONCRETE PAVEMENT/CONSTRUCTION JOINT N.T.S



EXPANSION JOINT AT FIXED OBJECT



EXPANSION JOINT (PAVEMENT)

6 C-501 EXPANSION JOINT DETAILS N.T.S

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14 OF 120	

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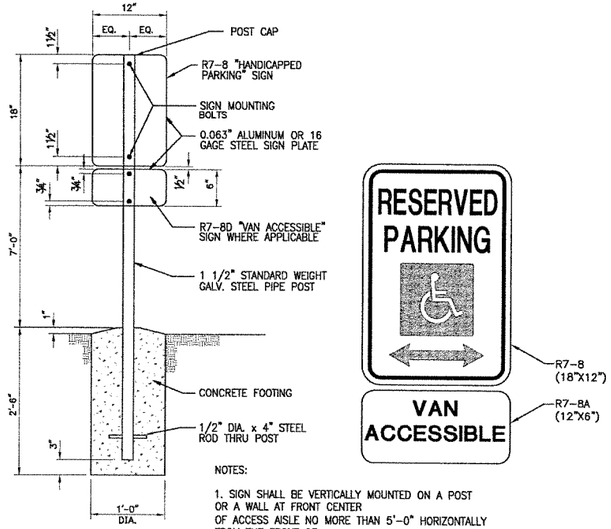


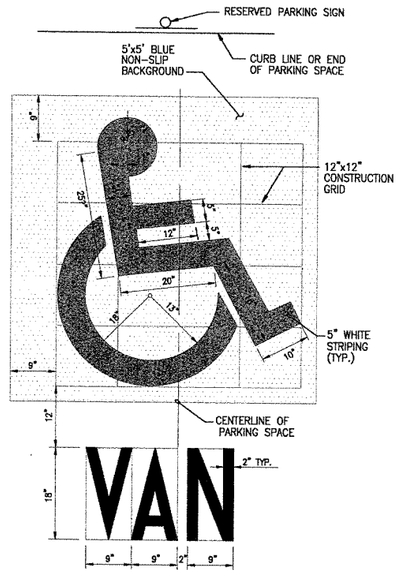
NOTES:

1. SIGN SHALL BE VERTICALLY MOUNTED ON A POST OR A WALL AT FRONT CENTER OF ACCESS AISLE NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE AND SET A MINIMUM OF 5'-0" ABOVE FINISH GRADE TO THE BOTTOM OF THE SIGN.

2. REFER TO SITE PLAN FOR LOCATION OF RESERVED PARKING SPACES.

3. COLORS – LEGEND AND BORDER – GREEN WHITE SYMBOL ON BLUE BACKGROUND BACKGROUND – WHITE.

1 EXTERIOR ADA SIGN
C-502 N.T.S



2 ACCESSIBLE PARKING MARK
C-502 N.T.S

FLAGPOLE NOTES:

CONCORD CONCEALED HALYARD SYSTEM W/STAINLESS STEEL COMPONENT OR APPROVED EQUAL

SLEEVE DIAMETER 8"–10"

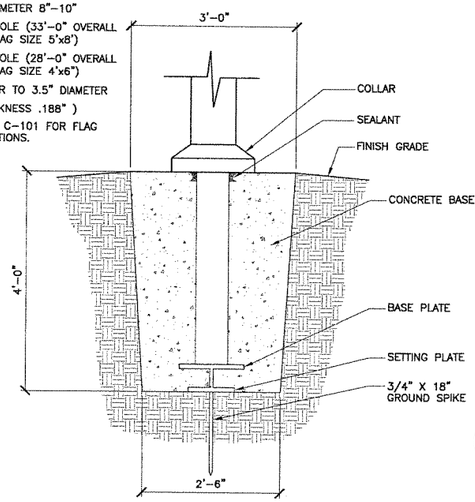
30' TALL POLE (33'–0" OVERALL LENGTH, FLAG SIZE 5'x8')

25' TALL POLE (28'–0" OVERALL LENGTH, FLAG SIZE 4'x6")

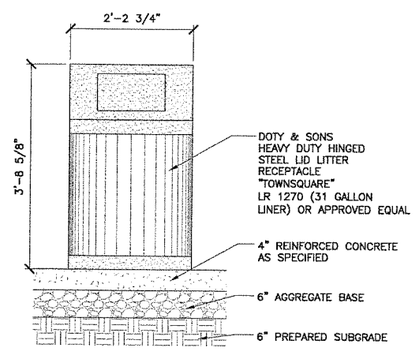
6" DIAMETER TO 3.5" DIAMETER

(WALL THICKNESS .188")

SEE SHEET C–101 FOR FLAG POLE LOCATIONS.

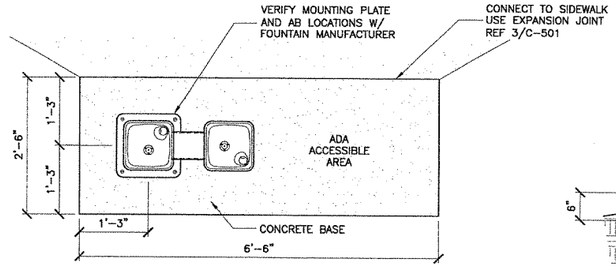


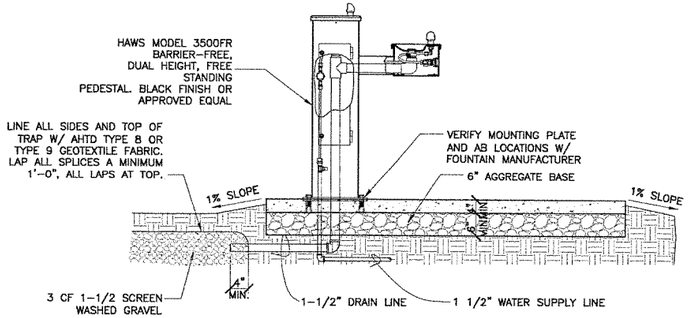
3 FLAGPOLE DETAIL
C-502 N.T.S



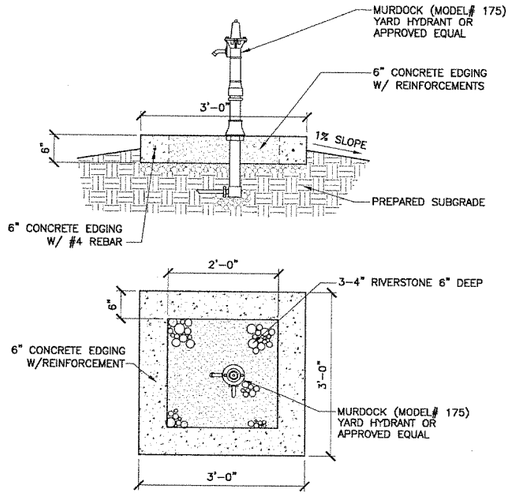
4 LITTER RECEPTACLE DETAIL
C-502 N.T.S

NOTE:
USE SPECIAL FINISH SB2–TAN MESA BUFF.
TYPICAL PAD DIMENSION ARE 4'x4'
PAD TO ADJOIN SIDEWALK WITH EXPANSION JOINT, WHERE APPLICABLE.

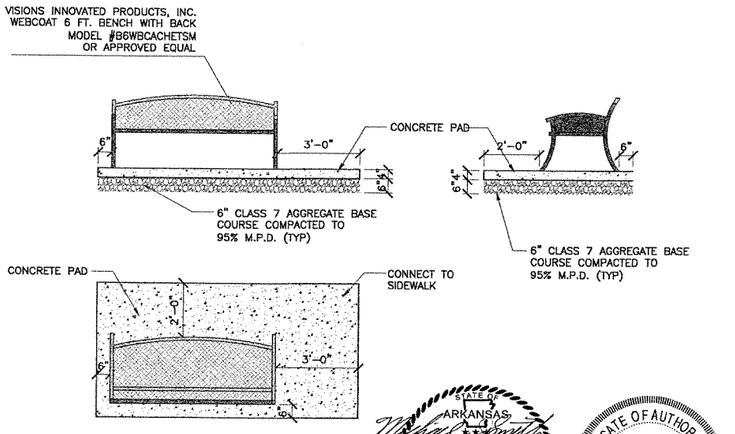




5 PEDESTAL DRINKING FOUNTAIN INSTALLATION DETAILS
C-502 N.T.S



6 YARD HYDRANT SPLASHPAD
C-502 N.T.S



7 BENCH DETAIL
C-502 N.T.S

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/11

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770–5800
(479) 770–5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS II

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	TBC
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C–502
REV	0

15 OF 120

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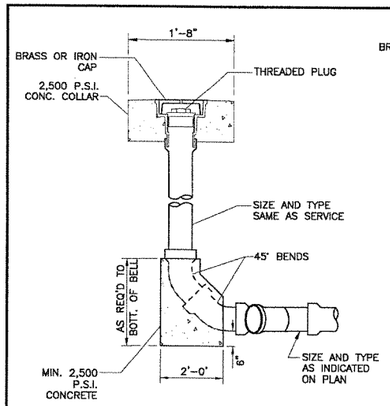
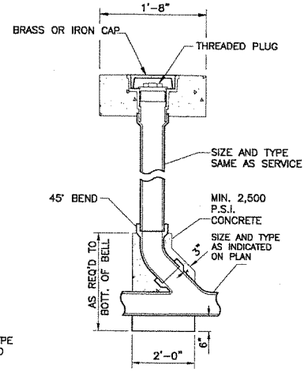
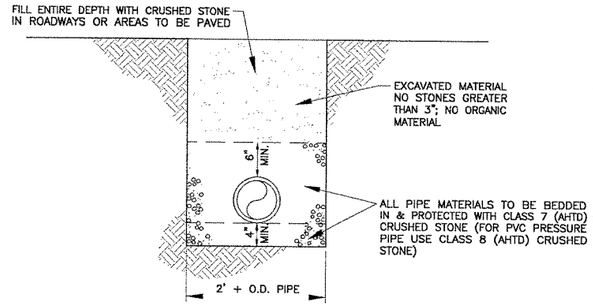


CLEANOUT AT BEND

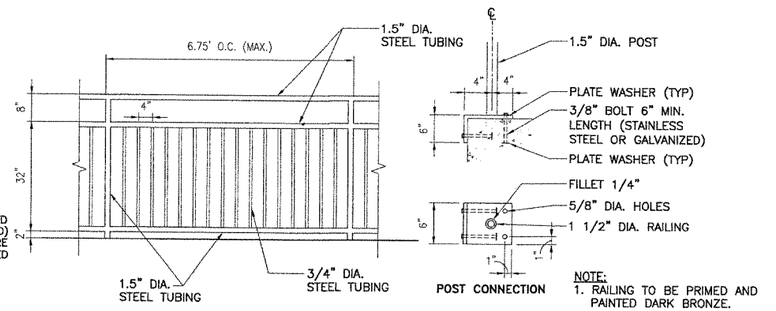


FLOW-THROUGH CLEANOUT

1 C-503 SEWER CLEANOUT N.T.S



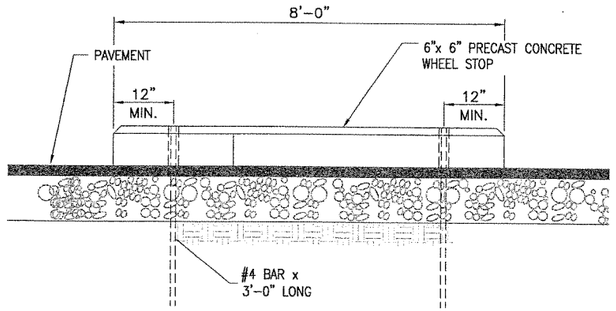
2 C-503 UTILITY TRENCH & WATERLINE BEDDING N.T.S.



* SEE 1/C-508 FOR LOCATIONS

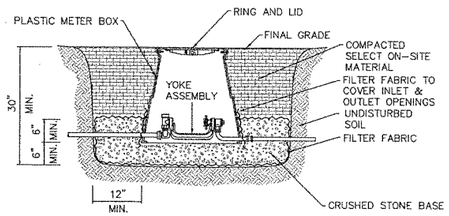
3 C-503 STEEL RAILING DETAIL N.T.S.

NOTE:
1. RAILING TO BE PRIMED AND PAINTED DARK BRONZE.
2. POSTS REMAIN VERTICAL REGARDLESS OF SLOPE.
3. MATERIALS TO COMPLY WITH A.H.T.D. STANDARD SPECIFICATIONS SECTION 633.



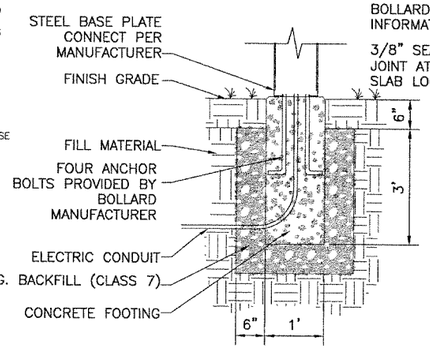
4 C-503 WHEEL STOP N.T.S.

NOTE:
EXACT CONFORMANCE TO THIS DETAIL WILL NOT BE REQUIRED WHEN LOCAL MANUFACTURER'S STANDARD PRODUCTS ARE OF APPROXIMATE SAME DIMENSIONS AND STRUCTURAL STRENGTH.

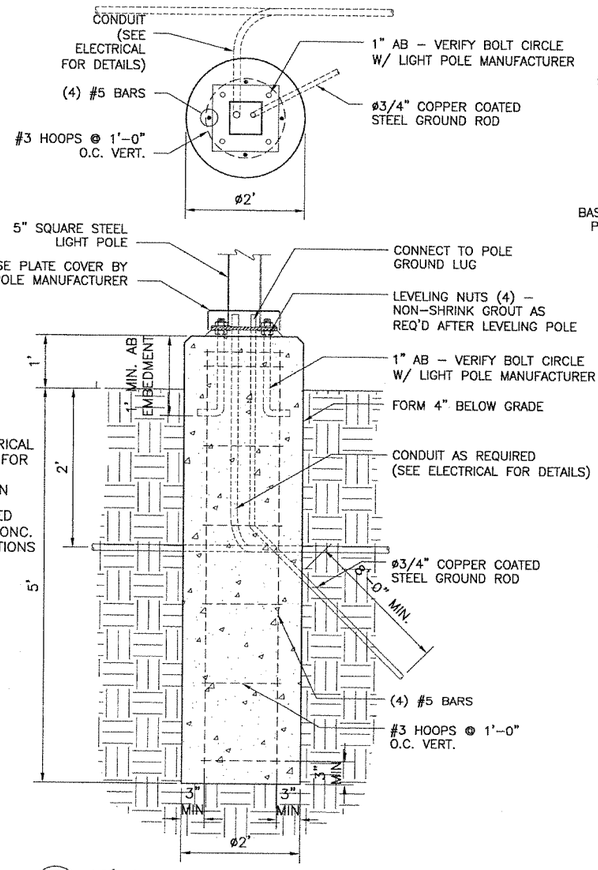


NOTE:
COORDINATE WITH LOCAL WATER AUTHORITY FOR METER SIZE.
HIGH DENSITY POLYETHYLENE METER BOX DETAIL

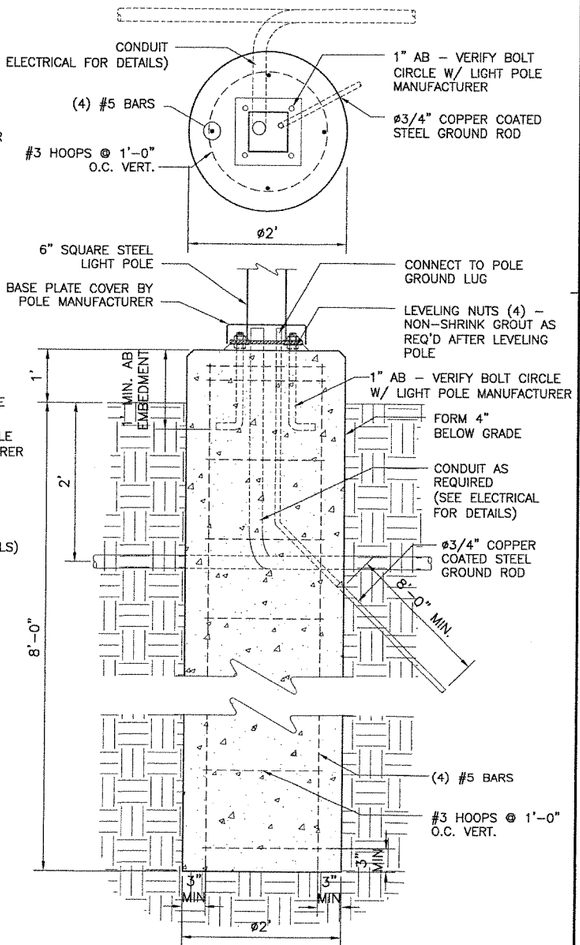
5 C-503 WATER METER DETAIL N.T.S.



6 C-503 LIGHTED BOLLARD BASE DETAIL N.T.S.



7 C-503 12' PEDESTRIAN LIGHT BASE DETAIL N.T.S



8 C-503 35' SITE LIGHT BASE DETAIL N.T.S.

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 8165
MICHAEL SMITH
8/12/2011

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ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS III

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-503
REV	0
	16 OF 120

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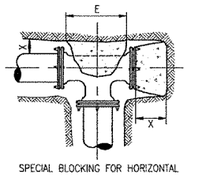
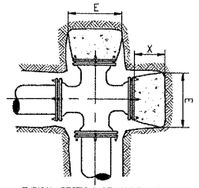
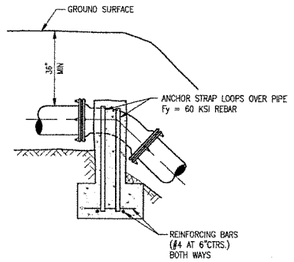


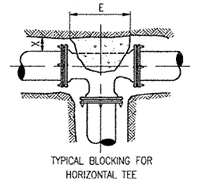
SPECIAL BLOCKING FOR HORIZONTAL TEE WITH CAP



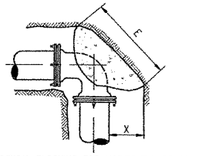
TYPICAL SECTION OF HORIZONTAL CROSS AND TWO CAP BLOCKING



TYPICAL BLOCKING FOR VERTICAL BENDS

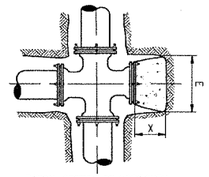


TYPICAL BLOCKING FOR HORIZONTAL TEE

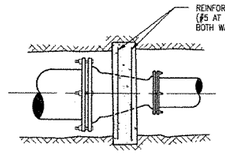


TYPICAL BLOCKING FOR HORIZONTAL BENDS

NOTE:
DIMENSIONS FOR BLOCKING ON VERTICAL BENDS ARE THE SAME AS REQUIRED FOR HORIZONTAL BLOCKING.

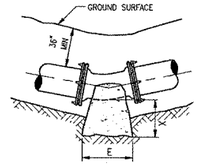


TYPICAL SECTION OF HORIZONTAL CROSS AND ONE CAP BLOCKING



NOTE:
SEE VERTICAL BLOCKING TABLES AND USE VOLUME REQUIRED FOR 45 DEGREE BEND OF LARGER DIAMETER PIPE FOR HORIZONTAL REDUCER.

TYPICAL BLOCKING FOR HORIZONTAL REDUCER



TYPICAL BLOCKING FOR VERTICAL BENDS

TYPICAL HORIZONTAL AND VERTICAL THRUST BLOCKING DETAILS

N.T.S.

PIPE SIZE inches	"X" ft.	11.25 DEGREE BEND			22.5 DEGREE BEND			45 DEGREE BEND			90 DEGREE BEND			TEE OR CAP		
		"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.
2"	0.5	0.26	0.07	0.01	0.36	0.13	0.01	0.50	0.26	0.01	0.69	0.48	0.01	0.58	0.34	0.01
3"	0.5	0.39	0.15	0.01	0.55	0.30	0.01	0.76	0.58	0.01	1.04	1.08	0.02	0.87	0.76	0.02
4"	1.0	0.52	0.27	0.01	0.73	0.53	0.02	1.02	1.04	0.04	1.39	1.92	0.07	1.17	1.36	0.05
6"	1.5	0.77	0.60	0.03	1.09	1.19	0.07	1.53	2.34	0.13	2.08	4.32	0.24	1.75	3.06	0.17
8"	1.5	1.03	1.06	0.06	1.46	2.12	0.12	2.04	4.15	0.23	2.77	7.68	0.43	2.33	5.43	0.30
10"	1.5	1.29	1.66	0.09	1.82	3.31	0.18	2.55	6.49	0.36	3.46	11.99	0.67	2.91	8.48	0.47
12"	1.5	1.55	2.39	0.13	2.18	4.76	0.26	3.06	9.34	0.52	4.15	17.26	0.96	3.49	12.20	0.68
14"	2.0	1.81	3.26	0.24	2.55	6.49	0.48	3.57	12.73	0.94	4.85	23.52	1.74	4.08	16.63	1.23
16"	2.0	2.06	4.26	0.32	2.91	8.47	0.63	4.08	16.61	1.23	5.54	30.70	2.27	4.66	21.71	1.61

MINIMUM HORIZONTAL THRUST BLOCKING REQUIREMENTS

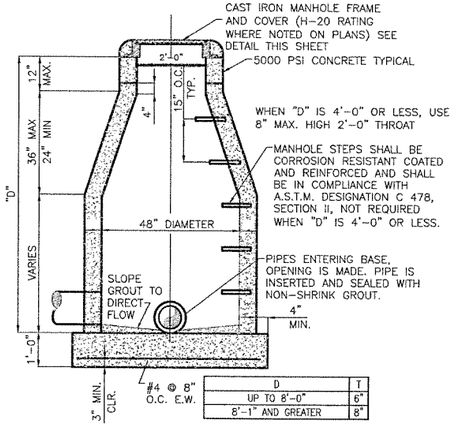
PIPE SIZE inches	11.25 DEGREE BEND			22.5 DEGREE BEND			45 DEGREE BEND			90 DEGREE BEND		
	ANCHOR STRAPS NO.	ANCHOR STRAPS SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	ANCHOR STRAPS SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	ANCHOR STRAPS SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	ANCHOR STRAPS SIZE	CONCRETE VOLUME cu.yd.
2.0	1	#4	0.04	1	#4	0.08	1	#4	0.16	1	#4	0.30
3.0	1	#4	0.09	1	#4	0.18	1	#4	0.36	1	#4	0.67
4.0	1	#4	0.16	1	#4	0.33	1	#4	0.64	1	#4	1.19
6.0	1	#4	0.37	1	#4	0.74	1	#4	1.44	1	#4	2.67
8.0	1	#4	0.66	1	#4	1.31	1	#4	2.57	2	#4	4.74
10.0	1	#4	1.03	1	#4	2.04	2	#4	4.01	2	#4	7.40
12.0	1	#4	1.48	1	#4	2.94	2	#4	5.77	2	#5	10.65
14.0	1	#4	2.01	2	#4	4.01	2	#4	7.86	2	#6	14.52
16.0	1	#4	2.63	2	#4	5.23	2	#5	10.26	3	#5	18.95

MINIMUM VERTICAL THRUST BLOCKING REQUIREMENTS

NOTES:

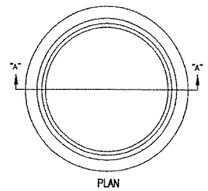
1. BEARING AREA FOR HORIZONTAL THRUST BLOCKING IS BASED ON 150 PSI STATIC PRESSURE PLUS 120 PSI WATER HAMMER PRESSURE AND 2500 PSF SOIL BEARING VALUE.
2. CONCRETE VOLUME FOR VERTICAL THRUST BLOCKING IS BASED ON 150 PSI STATIC PRESSURE PLUS 120 PSI WATER HAMMER PRESSURE AND 150 LB.WT.PER CUBIC FOOT OF CONCRETE.
3. ALL CONCRETE IS 2000 PSI.
4. USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND.
5. ALL BLOCKING TO BE AGAINST UNDISTURBED HAND DUG SOIL.
6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
7. ALL VALVES SHALL BE A MINIMUM OF 5' FROM BLOCKED FITTINGS.
8. DO NOT COVER JOINTS OF FITTING WITH CONCRETE.

1 C-504 THRUST BLOCKING DETAILS
N.T.S.

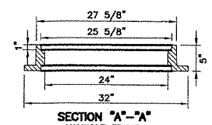


D	T
UP TO 8'-0"	6"
8'-1" AND GREATER	8"

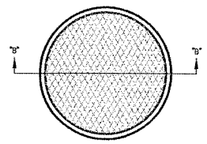
2 C-504 REINFORCED CONCRETE MANHOLE
N.T.S.



PLAN

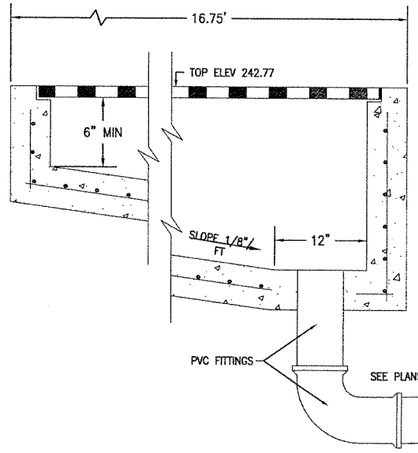


SECTION "A"-"A" MANHOLE FRAME



TOP OF COVER

SECTION "B"-"B" MANHOLE COVER



TYPICAL SECTION

3 C-504 TRENCH DRAIN DETAIL
N.T.S.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER ★★★ No. 8165 MICHAEL SMITH
8/12/2011

CERTIFICATE OF AUTHORIZATION SAIC Energy, Environment & Infrastructure, LLC No. 510 ARKANSAS

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
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ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS IV

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-504
REV	0
	17 OF 120

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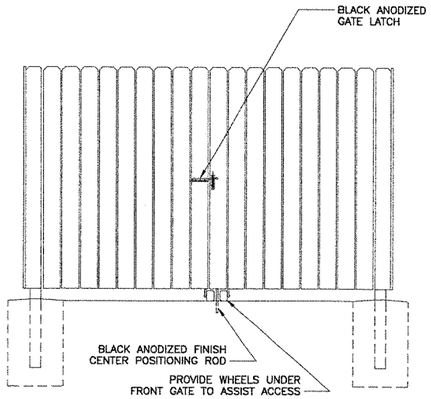
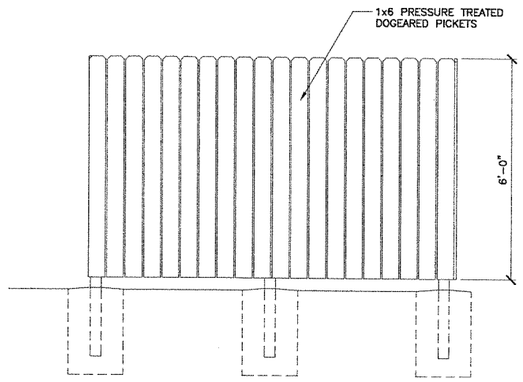


FRONT ELEVATION
SCALE: 1/2"= 1'-0"



SIDE ELEVATION
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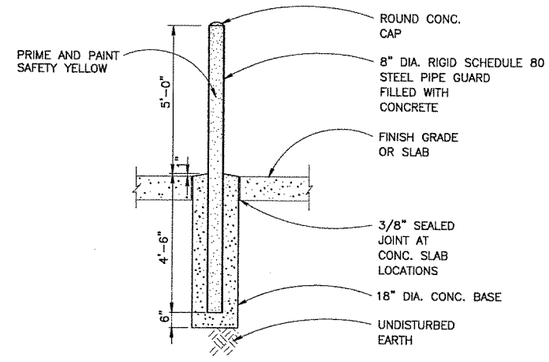
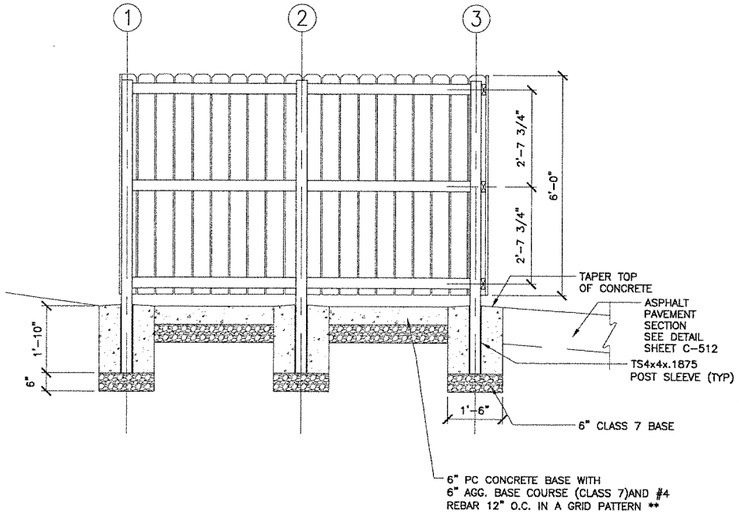
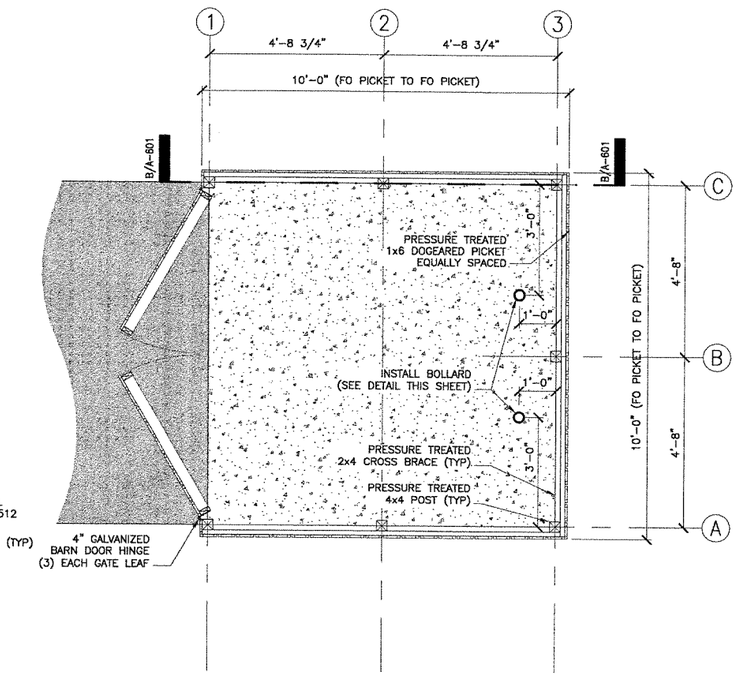


2 C-505 CONCRETE BOLLARD
SCALE: N.T.S.



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

** REBAR IS PAID FOR AS
"REINFORCING STEEL - ROADWAY
(GRADE 60)"



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

1 C-501 DUMPSTER SCREEN & PAD DETAILS
SCALE: N.T.S.

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
★★★
No. 8165
MICHAEL SMITH
8/12/11

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ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS V

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-505
REV	0
	18 OF 120

Filename: P:\LOW\FAC\63510160OO_AHTDWestHelena\20_DESGN\40_CAD\C\C-505 CIVIL DETAILS V.dwg Saved: 8/12/2011 4:28:06 PM By: grofp
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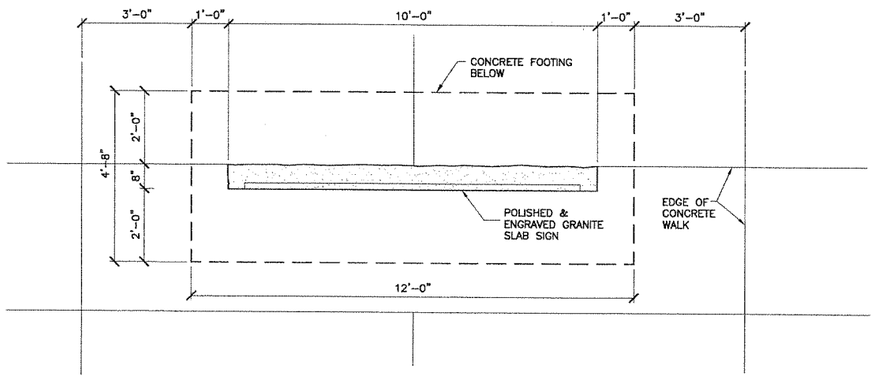
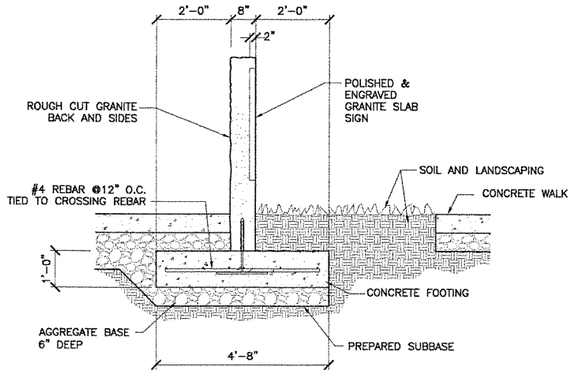
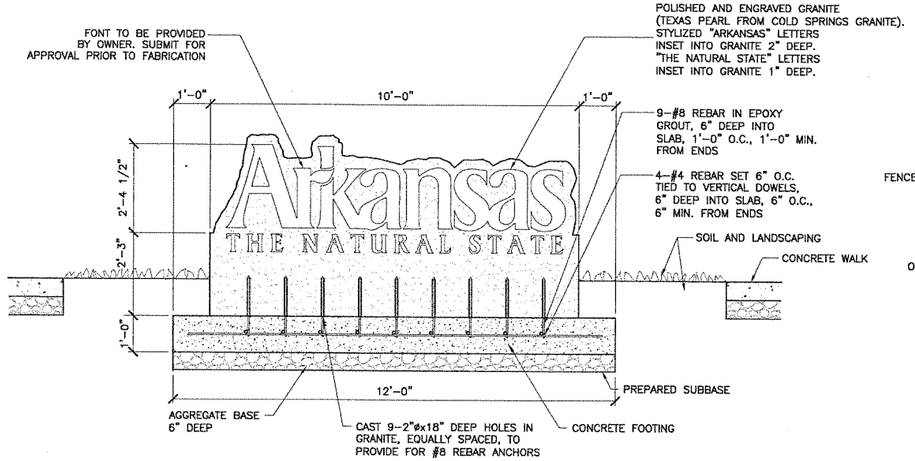


PLAN

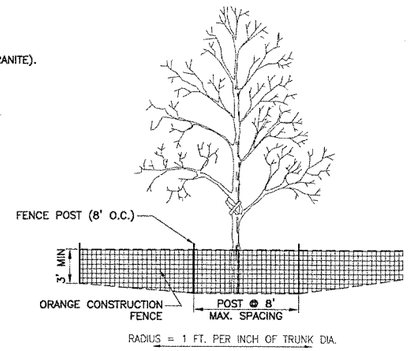


SECTION



ELEVATION

1 C-506 GRANITE SIGN
N.T.S.



2 C-506 TREE PROTECTION FENCING
N.T.S.

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Lowell, Arkansas
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(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS VI

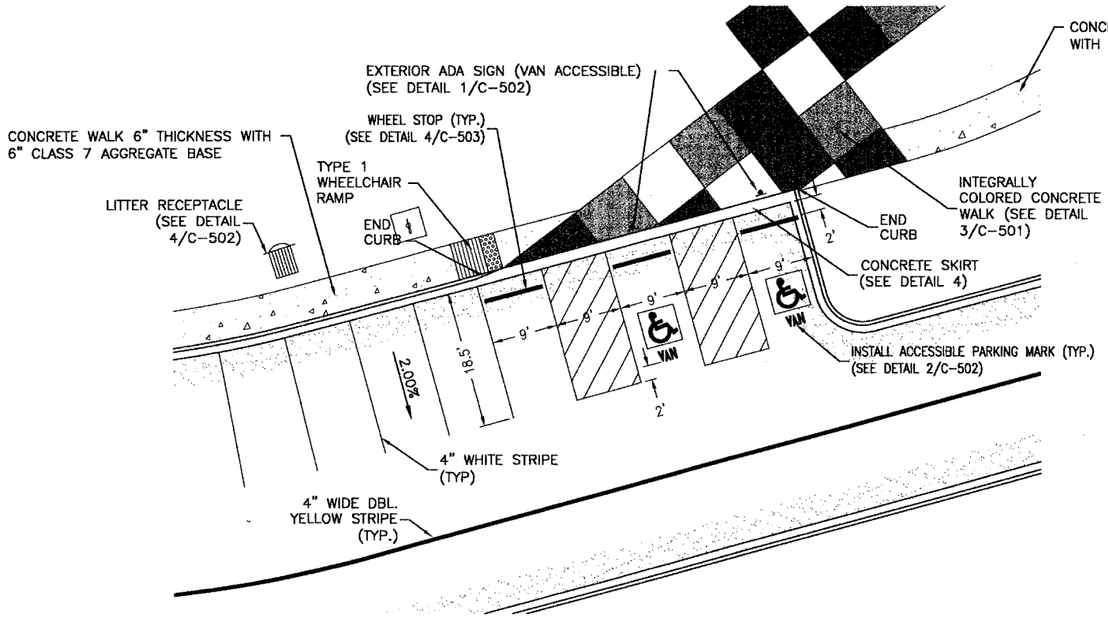
DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-506
REV	0

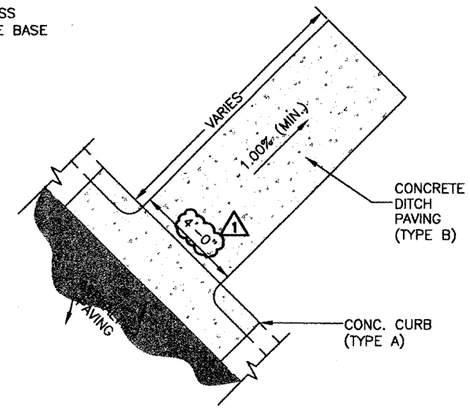
19 OF 120

STATE OF ARKANSAS
Michael Smith
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH

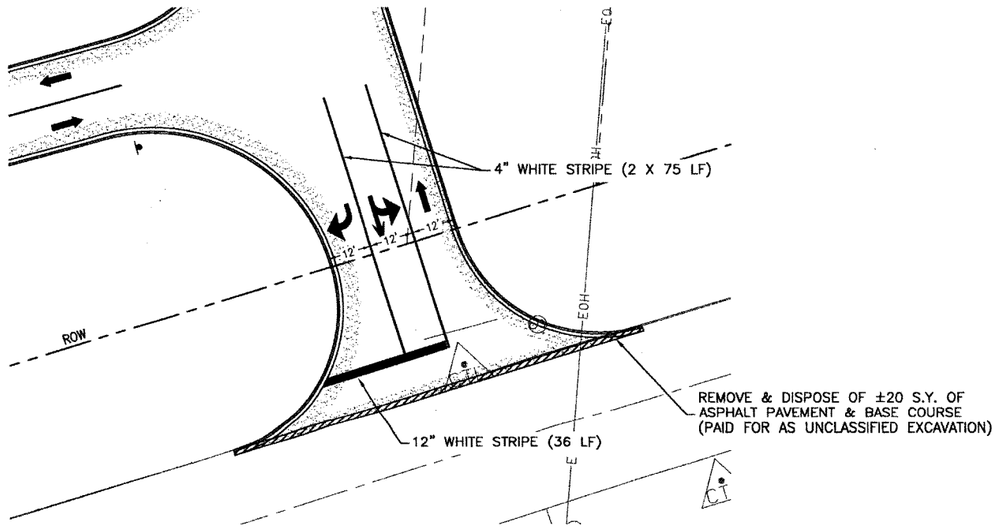
CERTIFICATE OF AUTHORIZATION
SAIC
Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS



1 C-507 **ADA PARKING DETAIL**
SCALE: 1"=10'

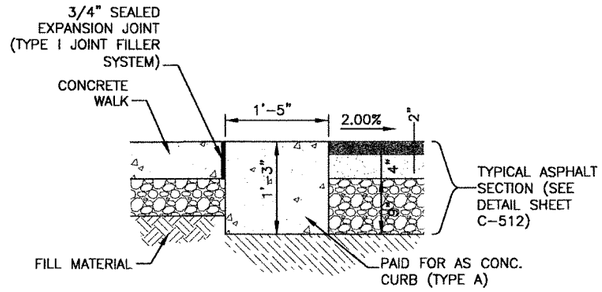


3 C-507 **CURB OPENING WITH 4' WIDE CONCRETE FLUME**
SCALE: N.T.S.



NOTE:
PLACE 20 TRAFFIC DRUMS AT 20' O.C. ALONG THE SHOULDER DEMOLITION AND UPSTREAM (EAST) ALONG THE ROAD FOR MAINTENANCE OF TRAFFIC.

2 C-507 **SITE ENTRANCE**
SCALE: 1"=20'



4 C-507 **CONCRETE SKIRT**
SCALE: N.T.S.

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1	02/01/12	ADDENDUM NO. 1		
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

CIVIL DETAILS VII

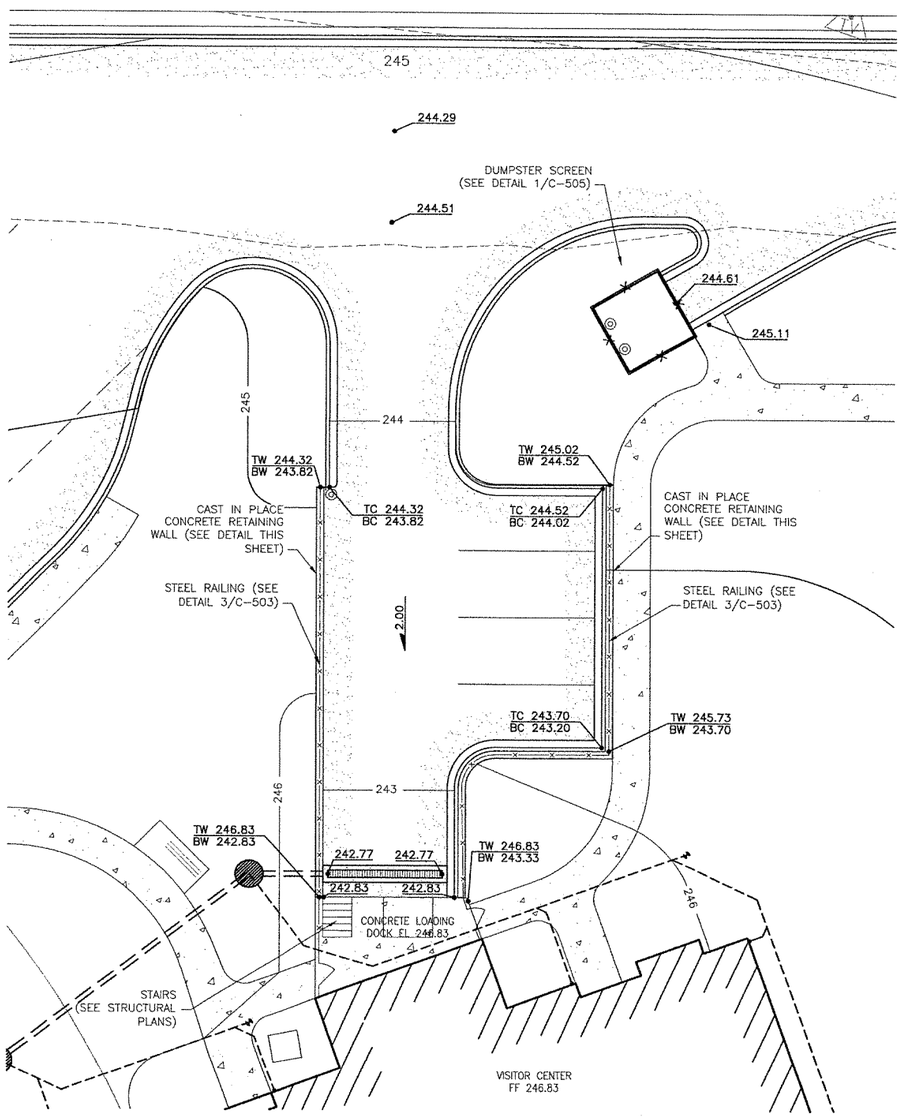
DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-507
REV	1
	20 OF 120

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
2/02/2012

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-507 CIVIL DETAILS VII.dwg Saved: 8/12/2011 4:53:25 PM By: grafp
Xrefs: ..\0160_C-BSD1.DWG ..\0160_C-GP.DWG ..\0160_C-UP.DWG ..\0160_C-SV.DWG ..\0160_C-SP.DWG

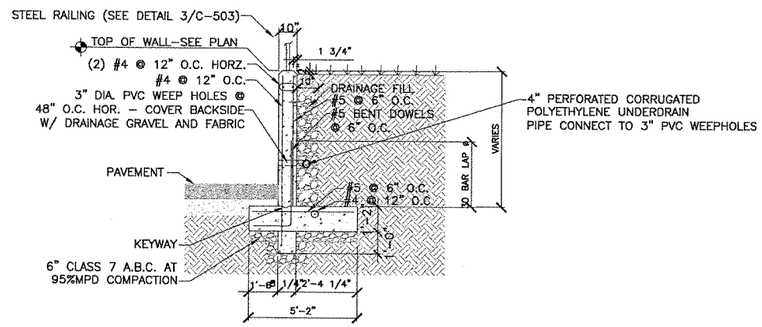


1 / C-508 TRUCK DOCK SPOT ELEVATIONS

SCALE: 1"= 10'-0"

NOTE:

1. REFERENCE C-104 FOR CONTOUR INFORMATION.
2. MAX SPACING FOR CONTRACTION JOINTS IS 20' X 20'.



2 / C-508 CAST IN PLACE CONCRETE RETAINING WALL TYPICAL SECTION

N.T.S

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

CIVIL DETAILS VIII

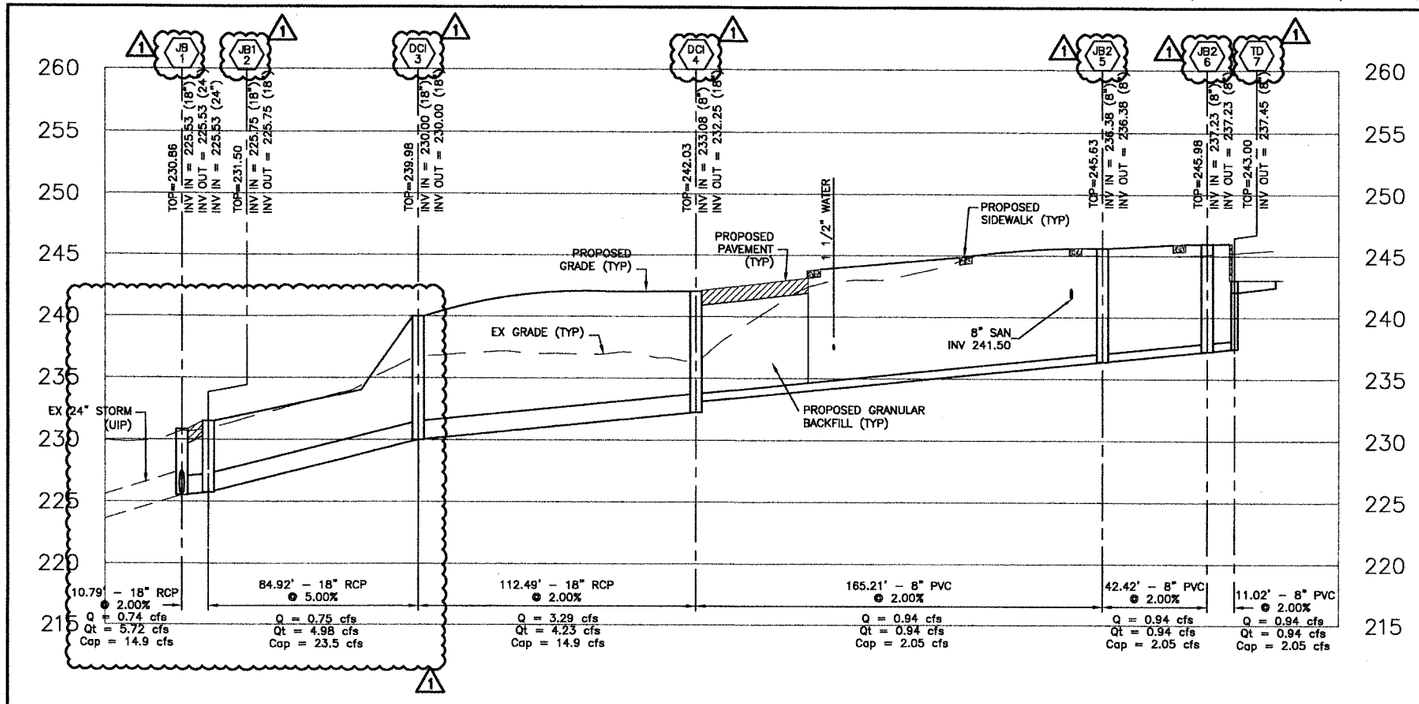
DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-508
REV	0
	21 OF 120

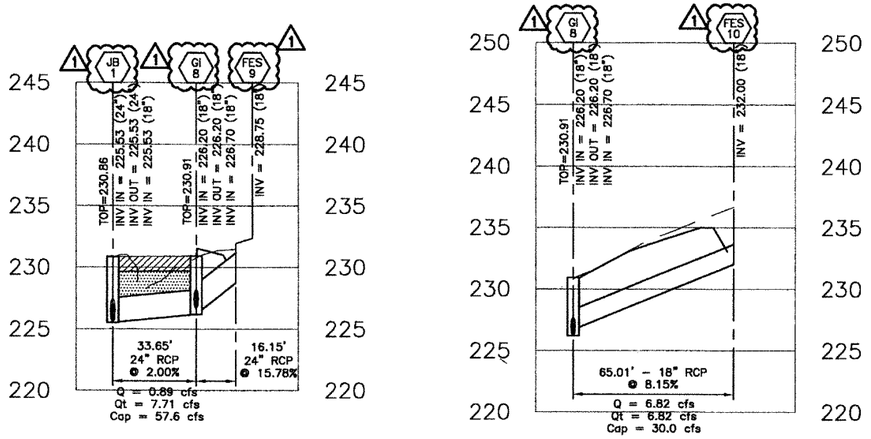
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/2011

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-508 CIVIL DETAILS VIII.dwg Saved: 8/12/2011 2:38:32 PM By: grafp
Xrefs: ..\0160_G-BS01.DWG ..\0160_A-FP01.dwg ..\0160_C-GP.DWG ..\0160_C-UP.DWG ..\0160_C-SV.DWG ..\0160_C-SP.DWG



STRUCTURE ABBREVIATIONS	
CI	AHTD STANDARD DRAWING FPC-9E DROP INLET TYPE C, NO EXTENSION
DCI	AHTD STANDARD DRAWING FPC-9E DROP INLET TYPE C, WITH 8' EXTENSION
FES	FLARED END SECTION
GI	AHTD STANDARD DRAWING FPC-9N TYPE N-1, 36" X 24"
JB1	AHTD STANDARD DRAWING FPC-9S JUNCTION BOX (TYPE ST)
JB2	AHTD STANDARD DRAWING FPC-9 JUNCTION BOX (TYPE E)



STORM DRAINAGE PROFILES

SCALE: 1" = 30' HORIZONTAL
1" = 5' VERTICAL

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

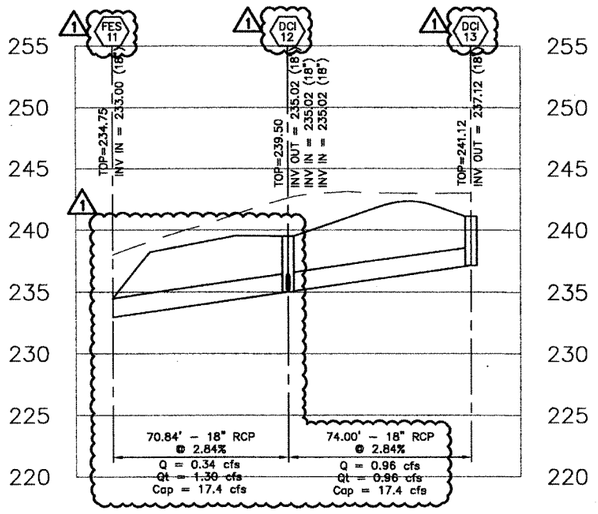
CIVIL DETAILS IX

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-509
REV	1
22 OF 120	

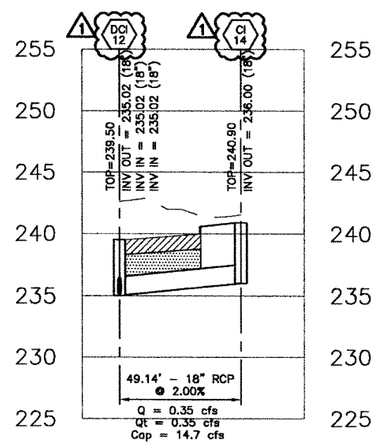
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 8165
MICHAEL SMITH
2/02/2012

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

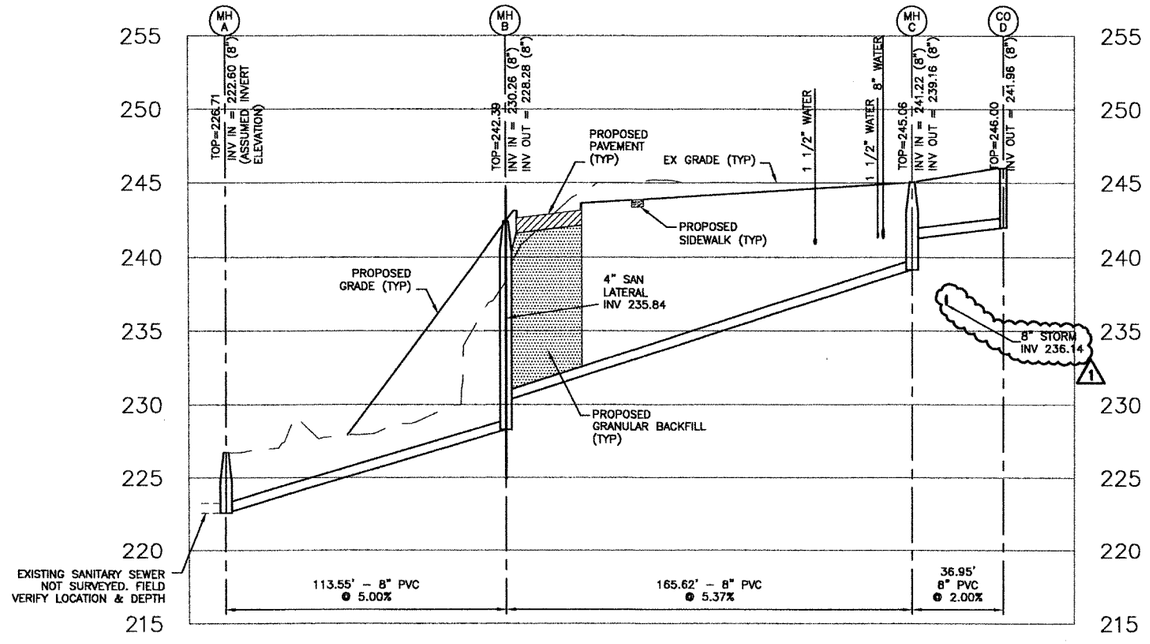


STORM DRAINAGE PROFILES

SCALE: 1" = 30' HORIZONTAL
1" = 5' VERTICAL



STRUCTURE ABBREVIATIONS	
MH	CONCRETE MANHOLE (SANITARY)
CI	AHTD STANDARD DRAWING FPC-9E DROP INLET TYPE C, NO EXTENSION
DCI	AHTD STANDARD DRAWING FPC-9E DROP INLET TYPE C, WITH 8' EXTENSION
FES	FLARED END SECTION
CI	AHTD STANDARD DRAWING FPC-9N TYPE N-1, 36" X 24"
JB1	AHTD STANDARD DRAWING FPC-9S JUNCTION BOX (TYPE S1)



SANITARY SEWER PROFILE

SCALE: 1" = 30' HORIZONTAL
1" = 5' VERTICAL

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1	02/01/12	ADDENDUM NO. 1		
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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

CIVIL DETAILS X

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-510
REV	1
	23 OF 120

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
4/02/2012

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\C\C-510 CIVIL DETAILS X.dwg Saved: 8/12/2011 5:21:20 PM By: grdfp
Xrefs: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\0160_G-BS01.dwg ..\0160_C-PRFL1.dwg

1. THE TOTAL AREA OF THE SITE IS APPROXIMATELY 5.14 ACRES. THE AREA DISTURBED BY IMPROVEMENTS IS APPROXIMATELY 4.26 ACRES.

2. GRADING SHALL BE PERFORMED IN ONE CONTINUOUS OPERATION.

3. CUT AND FILL ACTIVITY IS GREATER THAN 6' VERTICAL HEIGHT. SLOPES ARE AS SHOWN ON THE PLANS.

4. COLLECTING AND DISCHARGING SURFACE WATERS WILL BE THROUGH A COMBINED SWALE AND SUB-SURFACE DRAINAGE SYSTEM.

5. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR UPON DISTURBANCE OF THE LAND. THESE MEASURES WILL SATISFY THE REQUIREMENTS OF SECTION 109 OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY AND SHALL INCLUDE AS A MINIMUM:

   A. ON DISTURBED SLOPES LEFT OPEN & UNMAINTAINED FOR A PERIOD OF MORE THAN TWO (2) WEEKS, COVER WITH HAY (TACKED, ANCHORED, OR TIED) AT THE RATE OF 1.5 TONS PER ACRE.

   B. PROTECT TOES OF SLOPE WITH SILT FENCE WHERE INDICATED. SILT FENCE SHALL CONSTRUCTED AS SHOWN ON THE STANDARD AHTD DRAWING TEC-1.

   C. PROVIDE ROCK DITCH CHECKS AS SHOWN ON PLANS AND AROUND STORM INLETS AND IN SWALES.

   D. IN THE OCCASION THAT WIND EROSION BECOMES EVIDENT, THE CONTRACTOR SHALL SPRINKLE THE CONSTRUCTION SITE WITH WATER TO CONTROL DUST.

   E. CONTRACTOR SHALL KEEP VEHICLE TRACKING OF SEDIMENT TO A MINIMUM AND SHALL CLEAN HAUL ROUTES IF TRACKING BECOMES EXCESSIVE AS DETERMINED BY THE LOCAL GOVERNMENT OR PROJECT REPRESENTATIVE.

6. PERMANENT VEGETATION COVER WILL BE INSTALLED BY THE CONTRACTOR. COVER WILL BE:

   A. ON ALL DISTURBED AREAS NOT TO BE PAVED, SEED WITH APPROPRIATE COVER. SEE SPECIFICATIONS.

   B. CONSTRUCTION MEASURES FOR SEDIMENTATION AND EROSION CONTROL WILL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.

7. OWNER: ARKANSAS HIGHWAY DEPARTMENT
WEST HELENA WELCOME CENTER
ATTN: RAY WOODRUFF
AHTD DISTRICT 1 HQ
2701 U.S. HIGHWAY 64
WYNNE, AR 72396
870-238-8144

8. CONTRACTOR: TO BE DETERMINED

9. ANTICIPATED PROJECT SCHEDULE IS FOR CONSTRUCTION TO BEGIN AFTER SELECTION OF CONTRACTOR, AND RECEIPT OF REGULATORY APPROVALS. INSTALLATION OF PERMANENT VEGETATION COVER WILL BEGIN IMMEDIATELY UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

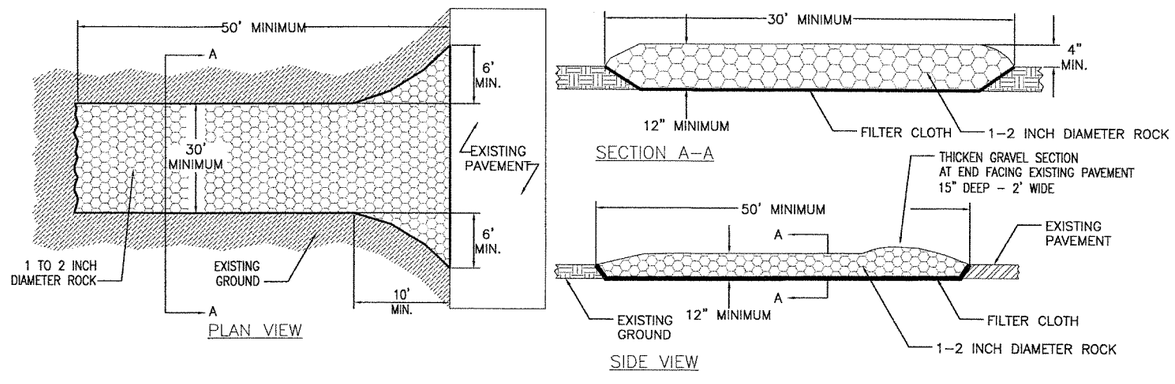
10. CONTRACTOR SHALL OBTAIN ALL GRADING PERMITS FROM THE APPROPRIATE AUTHORITIES HAVING JURISDICTION.

11. RECEIVING STREAM INFORMATION:
UNNAMED DITCH LEADING TO THE MISSISSIPPI RIVER

PROJECT SCHEDULE (TO BE COMPLETED BY CONTRACTOR)

DESCRIPTION

1. INSTALLATION OF TEMPORARY SILT FENCE;
2. CLEARING OF THE SITE AND STRIPPING TOPSOIL;
3. INSTALLATION OF ROCK DITCH CHECKS;
4. ROUGH GRADING SITE AREA;
5. CONSTRUTION OF THE BUILDING, UTILITIES, STORM DRAINAGE, AND PARKING AREAS;
6. FINAL GRADING OF THE SITE;
7. INSTALLATION OF SEEDING AND LANDSCAPING;
8. REMOVAL OF TEMPORARY SILT FENCE AND ROCK DITCH CHECKS.



1 / C-511 TEMPORARY CONSTRUCTION ENTRANCE
N.T.S

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0	08/15/11	ISSUED FOR CONSTRUCTION		

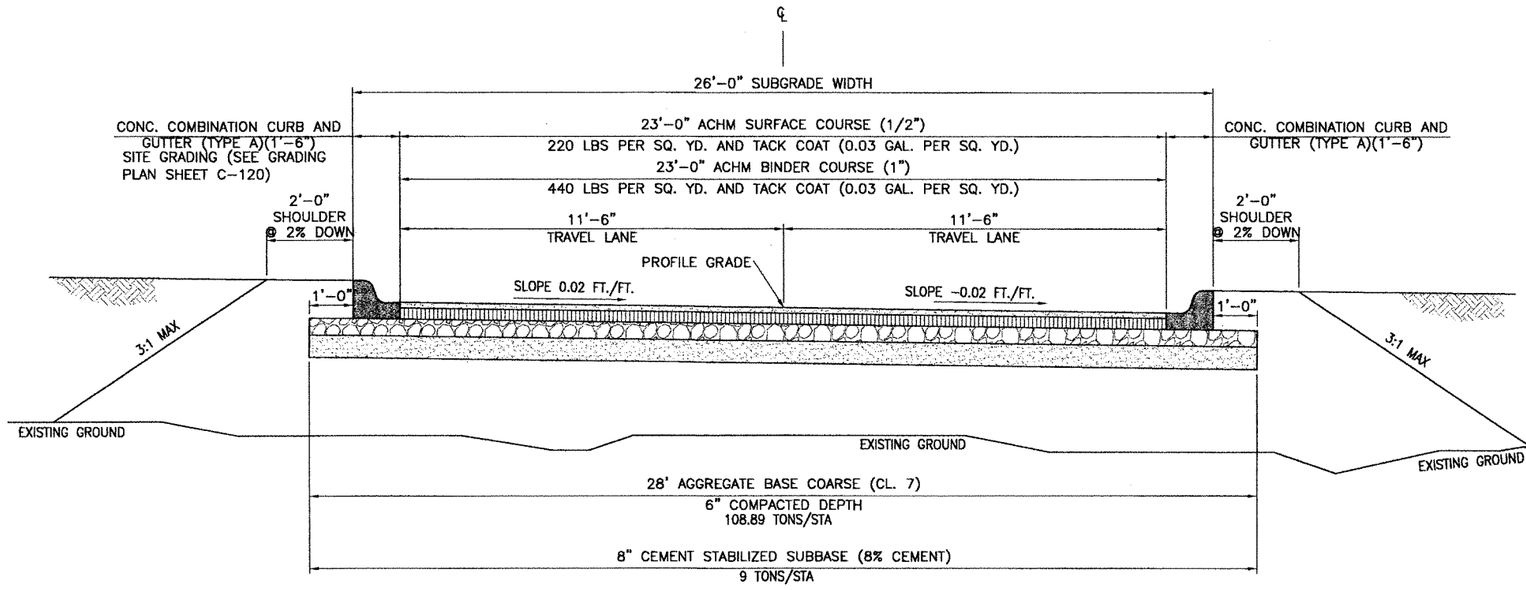
ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS XI

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-511
REV	0
24 OF 120	

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 8165
MICHAEL SMITH
8/12/2011

CERTIFICATE OF AUTHORIZATION
SAIC Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS



TYPICAL SECTION OF LOOP ROAD

SECTIONS WHERE PARKING AREAS TIE TO THE LANES SHALL EXTEND AS NOTED FROM THE EDGE OF LANE MAINTAINING THE SLOPES AS SHOWN ON SHEET C-120.

NOTES:

1. USE ASPHALT BINDER (PG64-22) FOR ACHM SURFACE AND BINDER COURSES.
2. ASPHALT BINDER AND SURFACE COURSES SHALL HAVE AN Nmax = 115.
3. FINAL MIX DESIGN SHALL BE APPROVED BY THE MATERIALS ENGINEER PRIOR TO PLACEMENT.
1. 4. ALL PAVED AREAS USE THE FOLLOWING SECTION:
   - 2" ACHM SURFACE COURSE (½")
   - 4" ACHM BINDER COURSE (1")
   - 6" AGGREGATE BASE COURSE (CLASS 7)
   - 8" CEMENT STABILIZED SUBBASE (8% CEMENT)
   - SM-4 SELECT FILL MATERIAL (AS NOTED)
5. PARKING AREAS ARE +2.0% FROM THE EDGE OF LANE USING THE NOTED PAVEMENT; THE RV PARKING AREA IS +1.0% FROM THE EDGE OF LANE USING THE SAME PAVEMENT SECTION. SEE GRADING PLAN SHEET C-120 FOR SPECIFIC ELEVATIONS POINTS).
6. ACHM BINDER AND SURFACE MIX DESIGNS – SECTION 404 OF THE STANDARD SPEC. FOR HIGHWAY CONSTRUCTION.

BASIS OF ESTIMATE:

ACHM SURFACE COURSE (1/2")

94.5% MINERAL AGGREGATE, 5.5% ASPHALT BINDER ACHM BINDER COURSE (1")

95.1% MINERAL AGGREGATE, 4.9% ASPHALT BINDER (MAX NUMBER OF GYRATIONS=115)

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
★★★
No. 8165
MICHAEL SMITH
2/02/2012

CERTIFICATE OF AUTHORIZATION
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Energy, Environment & Infrastructure, LLC
No. 510
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ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
CIVIL DETAILS XII

DESIGNED BY	MJS
DRAWN BY	PMG
CHECKED BY	CGL
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	C-512
REV	1

25 OF 120

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\C\C-512 CIVIL DETAILS XII.dwg Saved: 8/12/2011 5:10:55 PM By: grafp
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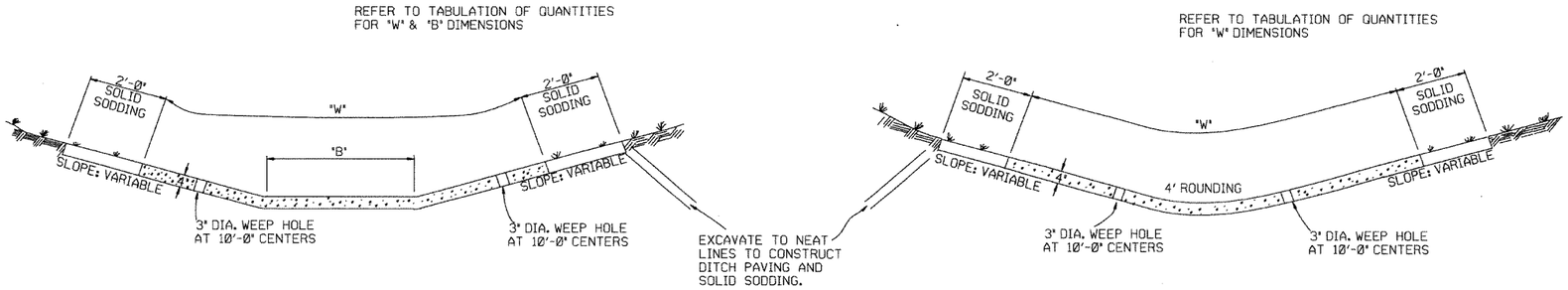
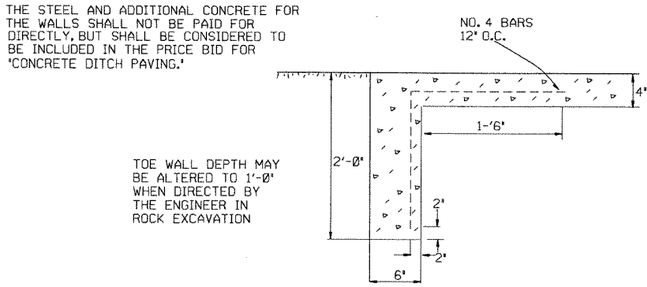
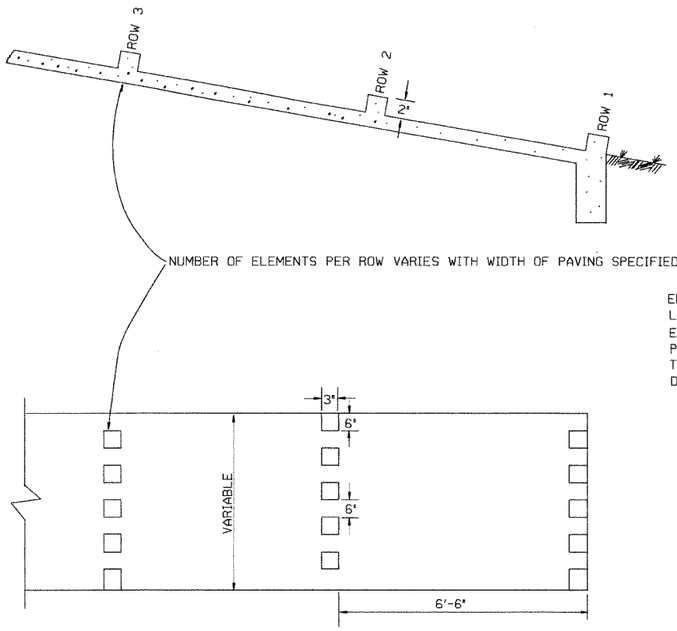


TYPE A

TYPE B



TOE WALL DETAIL FOR CONCRETE DITCH PAVING



ENERGY DISSIPATORS
(NO SCALE)

ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 7%. THE DISSIPATORS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED TO BE UNCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.

GENERAL NOTES:

THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONOLITHICALLY.

TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONOLITHICALLY.

SOLID SOD ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.

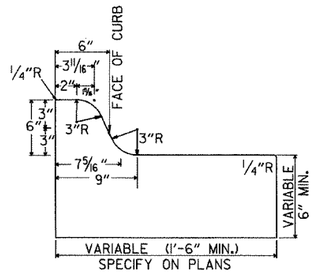
1" WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45' INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLYING WITH AASHTO M213.

DATE	REVISION	DATE FILM'D
11-17-10	ADDED GENERAL NOTE	
6-2-94	ADDED GENERAL NOTE ABOUT SOLID SODDING	
11-30-8	ELIMINATED MIN. ROWS OF ELEMENTS	111-30-89
7-15-88	REVISED DISSIPATOR NOTE	653-7-15-88
4-3-87	REVISED ENERGY DISSIPATOR	671-4-3-87
1-9-87	MODIFIED NOTE ON ENERGY DISS.	532-1-9-87
11-3-86	ADDED NOTE TO ENERGY DISS.	599-12-1-86
11-1-84	ENERGY DISSIPATOR DETAILS ADDED	508-11-1-84
11-1-84	EXCAVATION DETAILS ADDED TYPED A & B	
10-2-72	REVISED AND REDRAWN	508-10-2-72

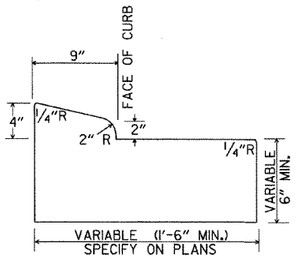
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE DITCH PAVING

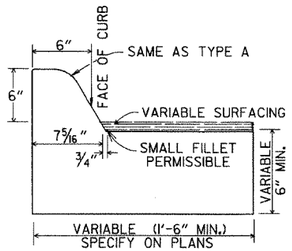
STANDARD DRAWING CDP-1



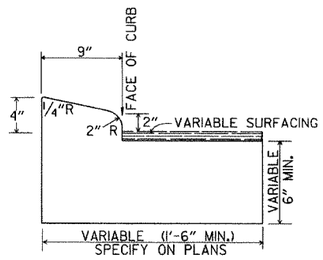
TYPE A



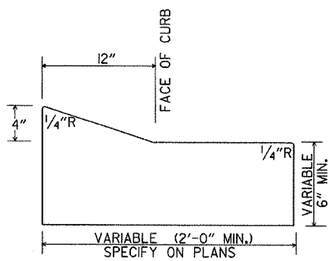
TYPE B-1



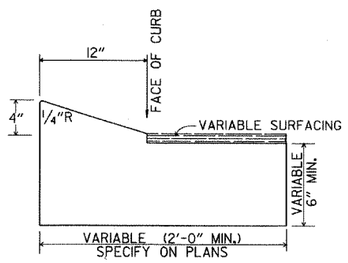
TYPE C



TYPE B-2

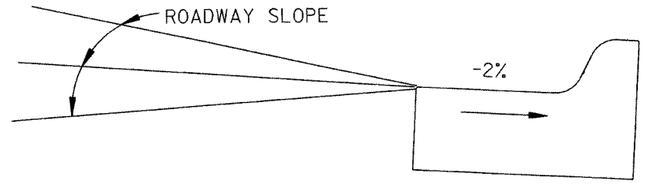


TYPE E-1



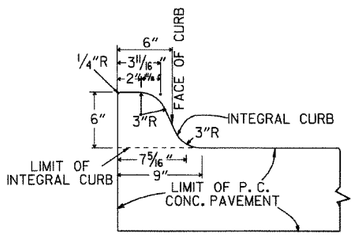
TYPE E-2

CONCRETE COMBINATION CURB AND GUTTER

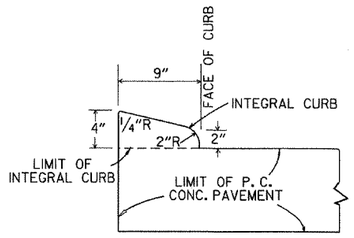


DETAIL OF GUTTER SLOPE

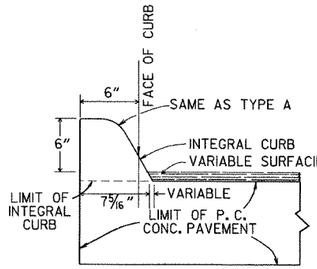
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

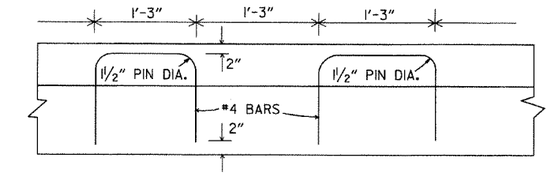


TYPE B



TYPE C

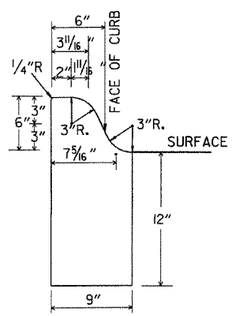
INTEGRAL CURB



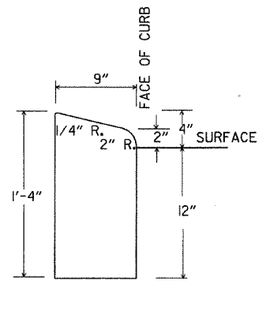
LONGITUDINAL SECTION

ELEVATION

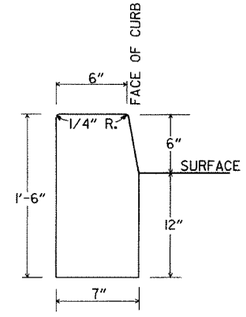
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



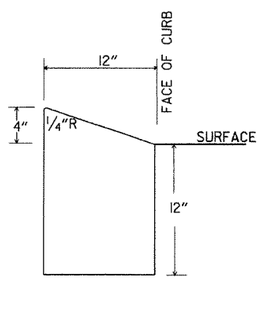
TYPE A



TYPE B

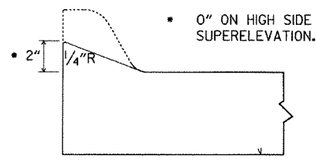


TYPE D



TYPE E

CONCRETE CURB



NOTE: USE MODIFIED CURB AS SPECIFIED ON STD. DR-1. COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.

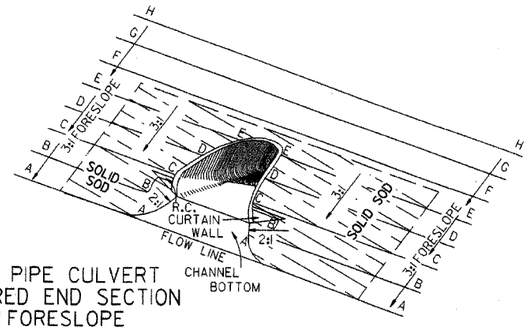
DETAILS OF MODIFIED CURB

DATE	REVISION	DATE FILMED
11-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
11-30-89	VARIBLE DEPTH TYPE A & B I	11-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
11-1-73	REVISED MODIFIED CURB	500-11-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72

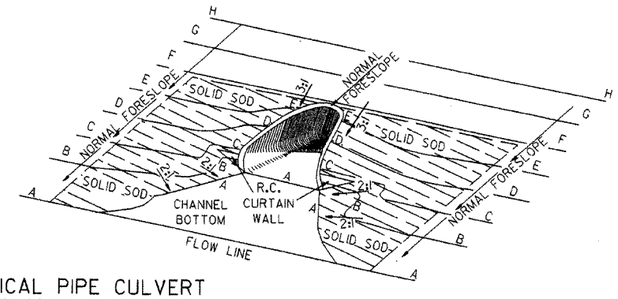
ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

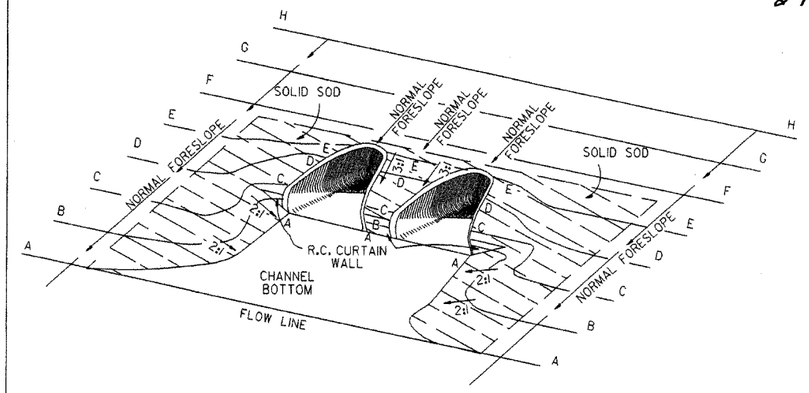
STANDARD DRAWING CG-1



TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& 3:1 FORESLOPE



TYPICAL PIPE CULVERT
WITH FLARED END SECTION
& FLATTENED ADJACENT SLOPES



TYPICAL MULTIPLE PIPE CULVERT
WITH FLARED END SECTIONS
& FLATTENED ADJACENT SLOPES

R.C. CURTAIN WALL
DIMENSIONS & QUANTITIES

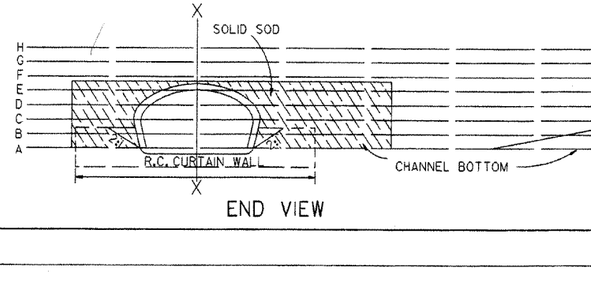
PIPE DIA.	H_1	L_1	L	L (DBL.)/2	SINGLE R.C.P.C. CONC.	SINGLE R.C.P.C. REINF. STEEL	DOUBLE R.C.P.C. CONC.	DOUBLE R.C.P.C. REINF. STEEL
					CU. YDS.	LBS.	CU. YDS.	LBS.
18"	1'-1½"	3'-5"	8'-0"	6'-3"	0.31	27.7	0.45	39.5
24"	1'-0½"	4'-6"	9'-6"	7'-6"	0.37	33.4	0.53	48.0
30"	1'-3½"	5'-7"	11'-0"	9'-0"	0.45	39.0	0.67	59.0
36"	1'-7"	6'-8"	13'-0"	10'-6"	0.58	52.6	0.83	73.9
42"	2'-1½"	7'-3"	15'-6"	12'-0"	0.82	77.1	1.10	100.7
48"	2'-5"	7'-10"	17'-0"	13'-0"	0.98	94.9	1.27	120.4
54"	2'-9½"	8'-5"	18'-6"	14'-0"	1.16	115.8	1.47	143.7
60"	3'-4"	9'-0"	20'-6"	15'-6"	1.47	149.7	1.84	180.3
72"	4'-5"	10'-2"	25'-6"	18'-6"	2.31	232.6	2.73	271.0

NOTE: QUANTITIES SHOWN ARE FOR ONE (1) CURTAIN WALL.

REINFORCING STEEL SCHEDULE

PIPE DIA.	SINGLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	V401 L	V401 NO.	V402 L	V402 NO.	DOUBLE R.C. PIPE CULVERT H401 L	H401 NO.	H402 L	H402 NO.	H403 L	H403 NO.	V401 L	V401 NO.	V402 L	V402 NO.
18"	7'-8"	2	1'-11½"	4	1'-7½"	8	8"	8	12'-2"	2	1'-11½"	4	8"	2	1'-7½"	10	8"	14
24"	9'-2"	2	2'-2"	4	1'-8½"	10	8"	9	14'-8"	2	2'-2"	4	8"	2	1'-8½"	12	8"	18
30"	10'-8"	2	2'-4½"	4	1'-11½"	10	8"	12	17'-8"	2	2'-4½"	4	8"	2	1'-11½"	14	8"	22
36"	12'-8"	2	2'-10"	6	2'-3"	12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
42"	15'-2"	2	3'-9½"	8	2'-9½"	16	8"	15	23'-8"	2	3'-9½"	8	8"	4	2'-9½"	18	8"	30
48"	16'-8"	2	4'-3"	10	3'-1"	18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
54"	18'-2"	2	4'-8½"	12	3'-5½"	20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-5½"	22	8"	34
60"	20'-2"	2	5'-5"	14	4'-0"	24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
72"	25'-2"	2	7'-4"	18	5'-1"	30	8"	20	36'-8"	2	7'-4"	18	8"	9	5'-1"	33	8"	40

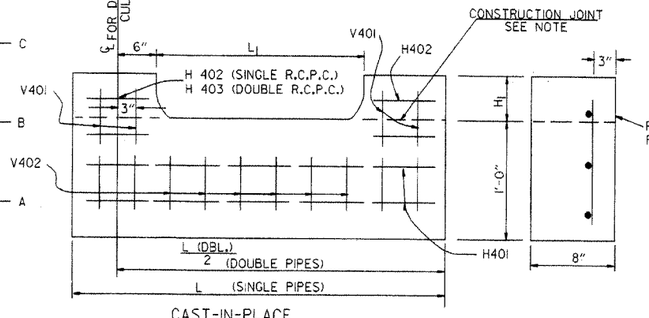
ALL REINFORCING STEEL #4 BARS @ 6" O.C.



PLAN VIEW
3:1 FORESLOPES

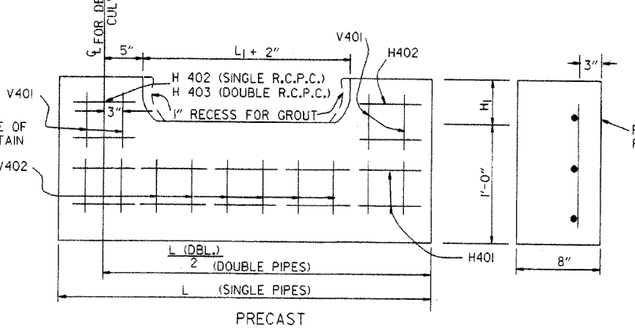
NOTE: THE CONFIGURATION OF CONTOURS WILL VARY WITH FORESLOPE VARIATIONS.

PLAN VIEW
FLATTENED FORESLOPES



CAST-IN-PLACE

NOTE: THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE & THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.



PRECAST

NOTE: THE PRECAST CURTAIN WALL WILL BE SET AND BACKFILLED WITH COMPACTED MATERIAL. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE 1" RECESS FILLED WITH GROUT. WHERE "L" EXCEEDS 11' THE CURTAIN WALL MAY BE CAST IN TWO (2) OR MORE SECTIONS. THE METHOD OF JOINING THE SECTIONS FOR INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

SOLID SODDING

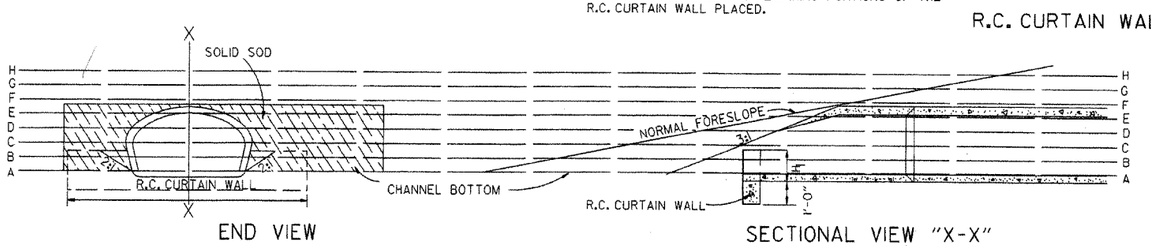
PIPE DIA.	SINGLE R.C.P.C. 3:1	4:1	6:1	DOUBLE R.C.P.C. 3:1	4:1	6:1
	SQ. YDS.			SQ. YDS.		
18"	5	7	12	6	8	13
24"	8	12	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	29	46	68	31	48	70
54"	35	57	85	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

NOTE: QUANTITIES SHOWN ABOVE ARE FOR ONE (1) END OF F.E.S.

GENERAL NOTES

1. A CAST-IN-PLACE OR PRECAST CURTAIN WALL MAY BE USED. PAYMENT FOR THE CURTAIN WALL SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID EACH FOR FLARED END SECTIONS OF THE SEVERAL SIZES, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS INCLUDING REINFORCING STEEL AND CONCRETE: FOR FORMS, MIXING AND PLACING; FOR EXCAVATION AND BACKFILL, AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED ¾".
3. CONCRETE FOR CURTAIN WALL SHALL MEET THE REQUIREMENTS FOR CLASS A OR S CONCRETE AS PROVIDED IN SECTION 802 OF THE STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN SECTION 501 OF THE STANDARD SPECIFICATIONS.
4. WELDED WIRE MESH 3 x 3 W10 x W10 MAY BE USED IN LIEU OF REINFORCING BARS.

R.C. CURTAIN WALL DETAILS



END VIEW

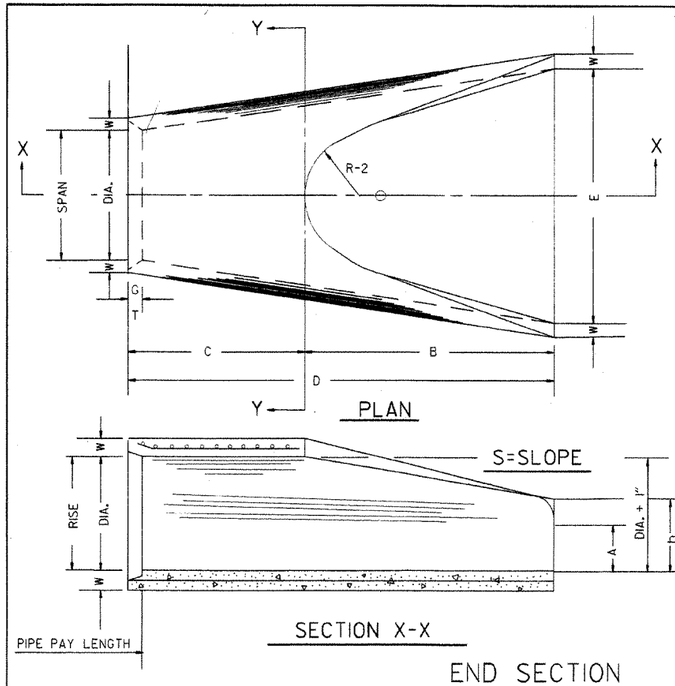
SECTIONAL VIEW "X-X"

DATE	REVISION	FILMED
10-18-96	ADDED NOTE TO SOLID SODDING	10-18-96
10-12-95	CORRECTED SPELLING	
11- 3-94	ADDED GENERAL NOTE NO. 4	
8-15-91	REV. CURTAIN WALL QUANT. STEEL SCH. & SOLID SOD QUANT.	
3-2-81	ALLOW PRECAST IN 2 OR MORE PIECES CHAMFER EDGES	
5-15-80	ADDED PRECAST WALL & GENERAL NOTES	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

FLARED END SECTION

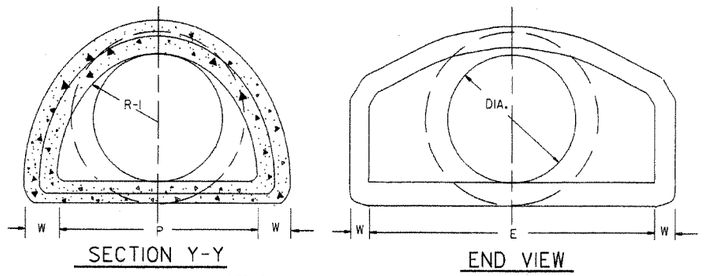
STANDARD DRAWING FES-1



END SECTION FOR REINFORCED CONCRETE PIPE CULVERTS

TABLE OF DIMENSIONS

DIA.	WALL	A	B	C	D	E	S	DIA. + 1"	P	R-1	R-2	G-T	WT.	h
18"	2½"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15½"	12"	2"	1000	1'-0½"
24"	3"	9½"	3'-7½"	2'-6"	6'-1½"	4'-0"	3:1	25"	33 3/16"	16 13/16"	14"	2½"	1600	1'-1½"
30"	3½"	1'-0"	4'-6"	1'-7¾"	6'-1¾"	5'-0"	3:1	31"	37"	18½"	15"	3¼"	1940	1'-4⅝"
36"	4"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	6'-0"	3:1	37"	47 13/16"	24 13/16"	20"	3½"	4100	1'-8"
42"	4½"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53⅞"	27½"	22"	3½"	5380	2'-2½"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56½"	28½"	22"	3½"	6550	2'-6"
54"	5½"	2'-4"	6'-6"	1'-10"	8'-4"	7'-6"	3:1	55"	65½"	33⅛"	24"	4"	8750	2'-10½"
60"	6"	2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61"	72½"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-6"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 5/16"	24"	5"	13250	4'-6"

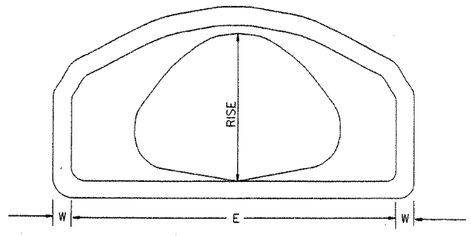


NOTE: TONGUE END ON UPSTREAM SECTION
GROOVE END ON DOWNSTREAM SECTION

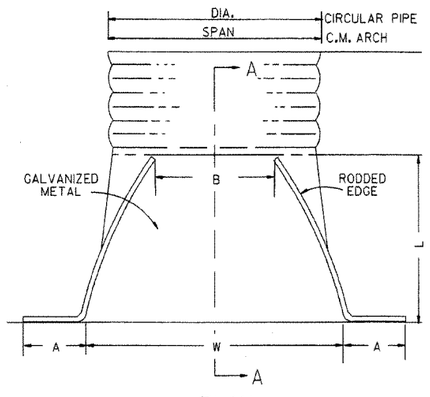
ARCH PIPE

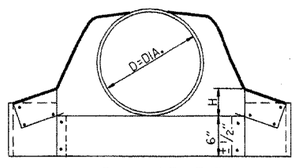
EQUIV. DIA.	• SPAN AASHTO M 206	• SPAN AHD NOMINAL	• RISE AASHTO M 206	• RISE AHD NOMINAL	W	A	B	C	D	E	P	R2	G-T	S
	INCHES													
15	18	18	11	11	2"	4"	2'-0"	4'-0"	6'-0"	3'-0"	29"	12"	1½"	2½:1
18	22	22	13½	14	2½"	5"	2'-0"	4'-1"	6'-1"	3'-6"	32⅛"	13"	2½"	2½:1
21	26	26	15½	16	2¾"	7"	2'-3"	3'-10"	6'-1"	4'-0"	34⅛"	14"	2½"	2½:1
24	28½	29	18	18	3"	9"	2'-3"	3'-10"	6'-1"	5'-0"	36 13/16"	15"	2½"	2½:1
30	36¼	36	22½	23	3½"	10"	3'-1"	3'-0½"	6'-1½"	6'-0"	47 13/16"	20"	3"	2½:1
36	43¾	44	26⅝	27	4"	10½"	4'-0"	2'-1½"	6'-1½"	6'-6"	54 5/16"	22"	3½"	2½:1
42	51⅛	51	31 5/16	31	4½"	11½"	4'-7"	1-10¼"	6'-5¼"	7'-2"	59½"	23"	3¾"	2½:1
48	58½	59	36	36	5"	1'-3"	5'-3"	2'-10¾"	8'-1¾"	7'-10"	70 5/16"	24"	4¼"	2½:1
54	65	65	40	40	5½"	1'-7"	5'-3"	2'-11"	8'-2"	8'-6"	72 1/16"	24"	4¾"	2¼:1
60	73	73	45	45	6"	1'-10"	5'-6"	2'-8"	8'-2"	9'-0"	77 13/16"	24"	5"	2¼:1

• THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PER CENT FROM THE VALUES SPECIFIED BY AASHTO M 206.

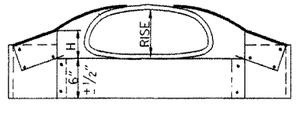


END VIEW
CONCRETE ARCH PIPE





CIRCULAR PIPE



C.M. ARCH PIPE

CIRCULAR PIPE

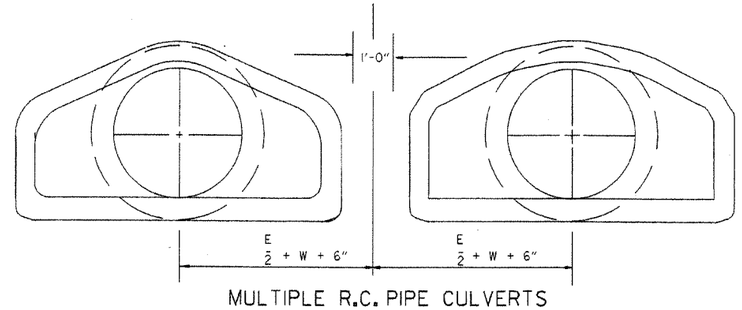
D. DIA.	GAUGE	A 1" ±	B. MAX.	H 1" ±	L 1½" ±	W 2" ±	S
		INCHES					
12	16	6	6	6	21	24	2½:1
15	16	7	8	6	26	30	2½:1
18	16	8	10	6	31	36	2½:1
21	16	9	12	6	36	42	2½:1
24	16	10	13	6	41	48	2½:1
30	14	12	16	8	51	60	2½:1
36	14	14	19	9	60	72	2½:1
42	12	16	22	11	69	84	2½:1
48	12	18	27	12	78	90	2½:1
54	12	18	30	12	84	102	2:1
60	12	18	33	12	87	114	1¾:1
66	12	18	36	12	87	120	1½:1
72	12	18	39	12	87	126	1 1/3:1

C.M. ARCH PIPE

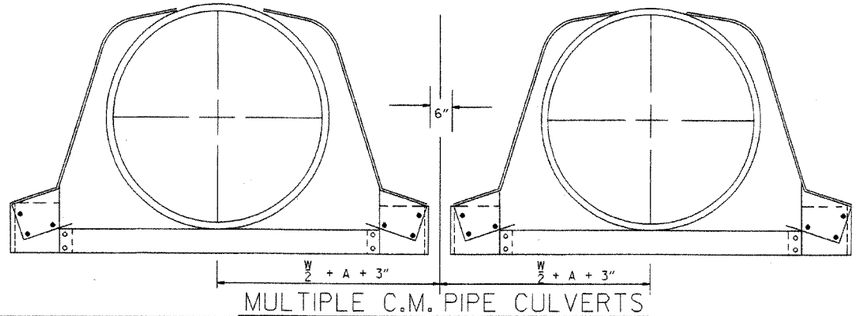
EQUIV. DIA.	SPAN	RISE	A 1" ±	B MAX.	H 1" ±	L 1½" ±	W 2" ±	S	GAUGE
	INCHES								
15"	17	13	7	9	6	19	30	2½:1	16
18"	21	15	7	10	6	23	36	2½:1	16
21"	24	18	8	12	6	28	42	2½:1	16
24"	28	20	9	14	6	32	48	2½:1	16
30"	35	24	10	16	6	39	60	2½:1	14
36"	42	29	12	18	8	46	75	2½:1	14
42"	49	33	13	21	9	53	85	2½:1	12
48"	57	38	18	26	12	63	90	2½:1	12
54"	64	43	18	30	12	70	102	2½:1	12
60"	71	47	18	33	12	77	114	2½:1	12

NOTE: ALTERNATE CONNECTIONS TO THE PIPE CULVERTS, IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICES, MAY BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER.

END SECTIONS FOR CORRUGATED METAL PIPE CULVERTS



MULTIPLE R.C. PIPE CULVERTS



MULTIPLE C.M. PIPE CULVERTS

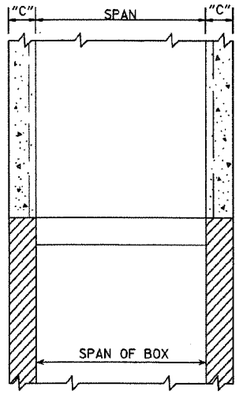
DATE	REVISION	FILMED
10-18-96	REVISED ASTM REF. TO AASHTO	10-18-96
5-15-80	REVISED DISTANCE BETWEEN MULTIPLE R.C.P. F.E.S.	664-5-15-80
7-14-78	C.M. ARCH SIZES TO CONFORM WITH AASHTO SIZES	752-7-14-78
8-22-75	ADDED MULTIPLE PIPE CULVERTS	517-8-22-75
12-5-74	REMOVED NOTE RE REINF. FOR R.C. F.E.S.	500-12-5-74
5-24-73	CMP END SECTION, SHOW PIPE PAY LENGTH	627-5-24-73
10-2-72	REVISED AND REDRAWN	760-10-2-72

ARKANSAS STATE HIGHWAY COMMISION

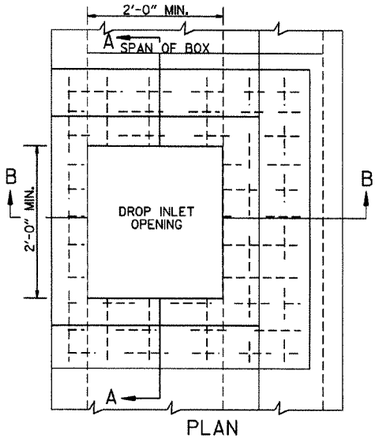
FLARED END SECTION

STANDARD DRAWING FES-2

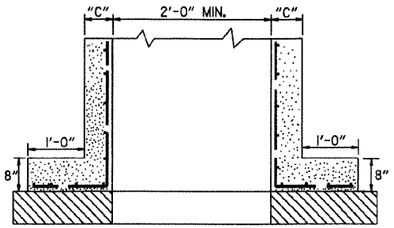
stdfes2.dgn



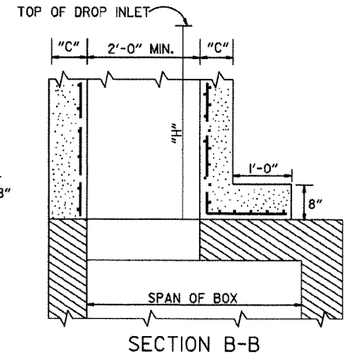
SECTION B-B



PLAN

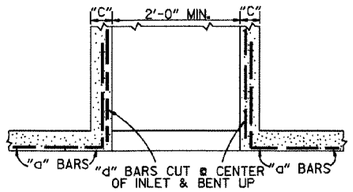


SECTION A-A

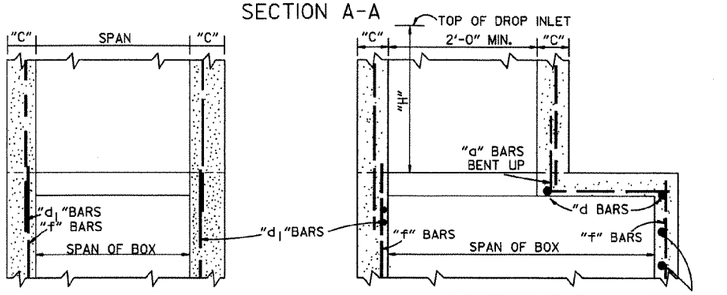


SECTION B-B

METHOD OF CONSTRUCTING DROP INLET ON EXISTING R.C. BOX CULVERT



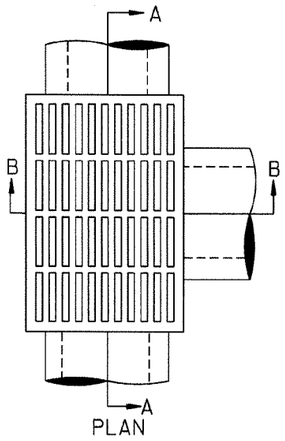
SECTION A-A



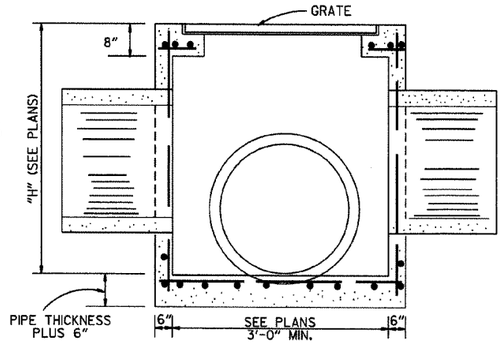
SECTION B-B SECTION B-B

METHOD OF CONSTRUCTING DROP INLET ON NEW R.C. BOX CULVERT

NOTE: "C" DIMENSIONS AND REINFORCING BAR SIZES, SHALL CONFORM TO THOSE SHOWN ON STANDARD DRAWING FOR DROP INLET.

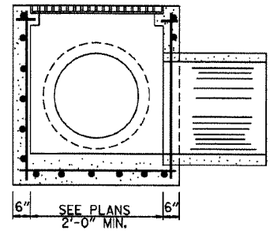


PLAN



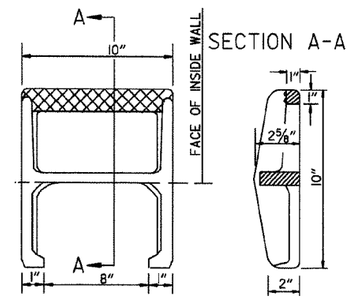
SECTION A-A

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE DROP INLET TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.



SECTION B-B

DROP INLET (TYPE E)



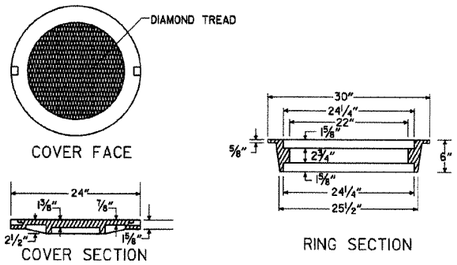
SECTION A-A

APPROX. WEIGHT = 11 LBS. (CAST IRON)

PLAN

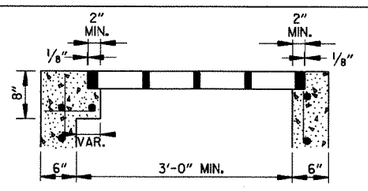
NOTE: THIS DETAIL IS TYPICAL. OTHERS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

DETAIL OF STEP FOR DROP INLET

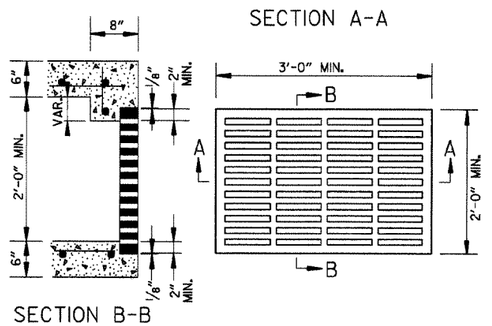


APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER



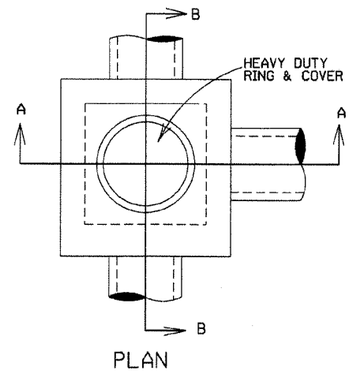
SECTION A-A



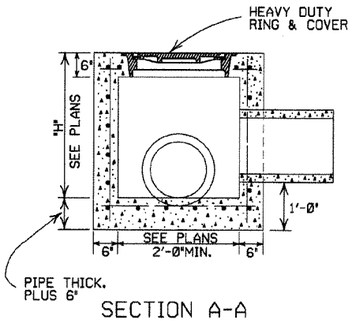
SECTION B-B

APPROXIMATE MINIMUM WATERWAY OPENING = 260 SQ. IN.

GRATE FOR TYPE E DROP INLET

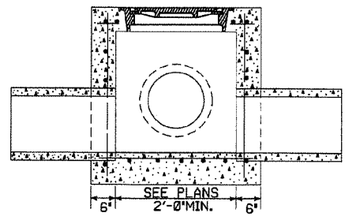


PLAN



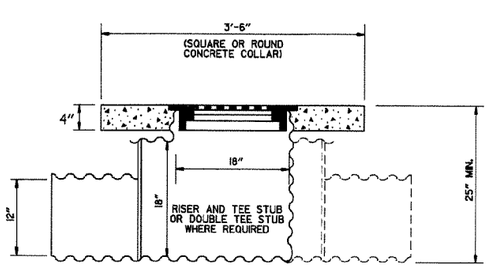
SECTION A-A

NOTE: REINF. BARS TO BE #4 BARS ON 6" CTRS. WITH 1½" MIN. COVER. THIS TYPE JUNCTION BOX TO BE USED WHERE NOT SUBJECTED TO TRAFFIC.

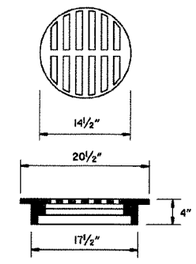


SECTION B-B

JUNCTION BOX (TYPE E)



NOTE: CONCRETE COLLAR TO BE CAST IN PLACE. 12" PIPE CULVERTS TO BE MEASURED AND PAID FOR AS " 12" SIDE DRAIN ".



USE NEENAH R-5901-C OR EQUIVALENT BICYCLE SAFE FRAME AND GRATE

DETAIL OF YARD DRAIN

GENERAL NOTES:

1. ALL EXPOSED CORNERS SHALL BE ¾" CHAMFERED.
2. STEPS SHALL BE INSTALLED ON 16" CENTERS ON ALL INLETS 4'-0" HIGH OR OVER, OR AS APPROVED BY THE ENGINEER.
3. EXPANSION JOINT MATERIAL SHALL BE ¾" PREFORMED FIBER.
4. GRATE OR GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B. GRATE MAY BE USED WITHOUT FRAME.
5. GRATE AND FRAME SHALL NOT BE PAINTED.
6. GRATE SHALL BE BICYCLE SAFE.
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
9. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
10. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

DATE REV.	REVISION	DATE FILMED
11-16-01	ADDED NOTE 10	
1-12-00	REVISED HEAVY DUTY RING & COVER	
7-02-98	CHANGED GRATE DETAIL, DELETED DI(TYPE D), REPLACED RING & COVER W/HEAVY DUTY RING & COVER, ADDED JUNCTION BOX (TYPE E)	
6-26-97	ADDED DIMENSION TO TYPE IV-A	
10-18-96	ADDED DETAIL OF YARD DRAIN	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLETS & JUNCTION BOXES

STANDARD DRAWING FPC-9

4'-0" LENGTH DROP INLET

PIPE SIZE	MIN. WIDTH	HEIGHT 5'-0" CLASS A CONC. CU. YDS.	HEIGHT 5'-0" REINF. STEEL POUNDS	PLUS OR MINUS PER LIN. FT. OF HEIGHT CLASS A CONC. CU. YDS.	PLUS OR MINUS PER LIN. FT. OF HEIGHT REINF. STEEL POUNDS
18"	2'-6"	1.77	156	0.28	22
24"	2'-6"	1.79	156	0.28	22
30"	3'-2"	2.39	205	0.30	26
36"	3'-8"	2.63	236	0.32	28
42"	4'-4"	2.95	250	0.34	30
48"	4'-10"	3.21	265	0.36	32

NOTE: QUANTITIES ARE APPROXIMATE AND ARE SHOWN FOR BIDDER INFORMATION ONLY.

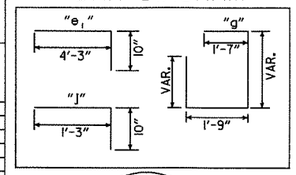
DROP INLET EXTENSION

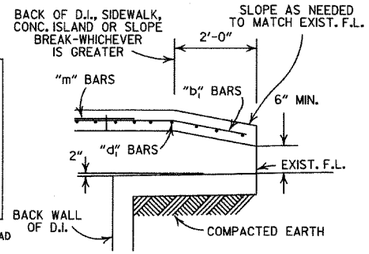
4'-0" CLASS A CONC. CU. YDS.	4'-0" REINF. STEEL POUNDS	8'-0" CLASS A CONC. CU. YDS.	8'-0" REINF. STEEL POUNDS
0.58	38	0.87	72
DEDUCT FROM QUANTITY COMPUTED FOR EACH EXTENSION ADDED.			
0.04	3		

DEDUCT FROM QUANTITY COMPUTED FOR EACH PIPE ENTERING INLET

INSIDE DIA. PIPE	CLASS A CONC.	REINF. STEEL
INCHES	CU. YDS.	POUNDS
18	0.05	2
24	0.09	3
30	0.13	4
42	0.24	8

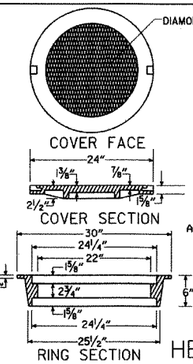
BAR DIAGRAM





BACK OPENING

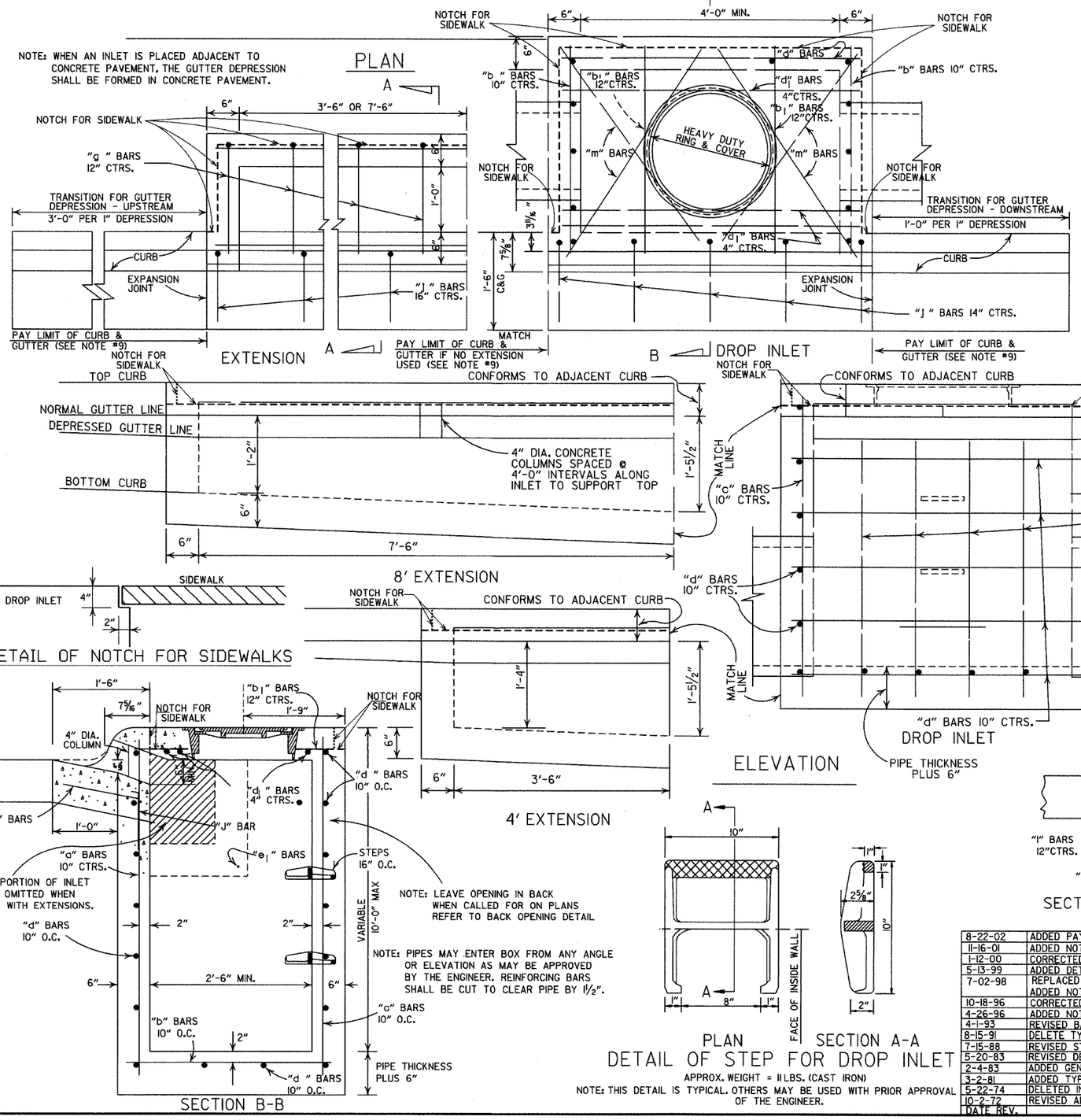
WHEN OPENING IN BACK IS CALLED FOR ON PLANS EXTEND OPENING AS SHOWN IN DETAIL. PAYMENT TO BE INCLUDED IN PRICE BID FOR DROP INLET (TYPE C).



APPROXIMATE TOTAL WEIGHT = 333 LBS.

HEAVY DUTY RING & COVER

GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER.
2. STEPS SHALL BE INSTALLED IN ALL INLETS 4'-0" HIGH AND OVER OF AS APPROVED BY THE ENGINEER.
3. ALL REINF. BARS SHALL BE #4 AND HAVE 1½" COVER.
4. DROP INLETS AND EXTENSION ON CURVED SECTIONS SHALL CONFORM TO THE CURVATURE OF THE CURB.
5. THIS DROP INLET MAY BE CONSTRUCTED ON NEW OR EXISTING R.C. BOX CULVERT AS SHOWN ON F.P.C.-9.
6. WHEN PLANS CALL FOR DROP INLET OVER 10'-0" HIGH, FLOOR AND WALLS SHALL BE CONSTRUCTED AS SHOWN FOR TYPE "RM" DROP INLET (F.P.C.-9D).
7. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
8. DURING CONSTRUCTION OF THE ROADWAY THE CONTRACTOR SHALL MAINTAIN DRAINAGE INTO OR AROUND THE DROP INLET AS APPROVED BY THE ENGINEER.
9. PAYMENT FOR CURB AND/OR CURB AND GUTTER WITHIN THE LIMITS OF DROP INLETS AND DROP INLET EXTENSIONS SHALL BE CONSIDERED INCLUDED IN PAYMENT MADE FOR DROP INLETS AND/OR DROP INLET EXTENSIONS.
10. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M105 CLASS 35B & AASHTO M306.
11. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
12. 4"x2" NOTCH SHALL BE FORMED IN ALL DROP INLETS TO SUPPORT SIDEWALK CONSTRUCTION. REFER TO DETAIL OF NOTCH FOR SIDEWALKS.
13. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.



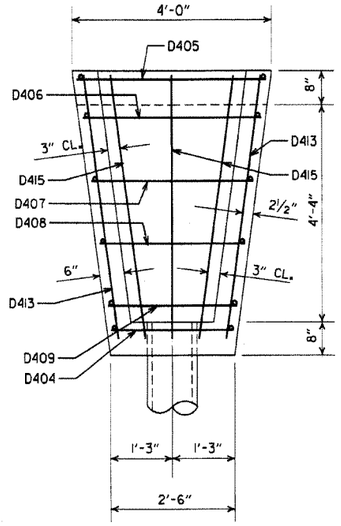
DATE REV.	REVISION	DATE FILMED
8-22-02	ADDED PAY LIMIT CURB NOTES TO SECTIONS A-A & B-B	
11-16-01	ADDED NOTE 13; REVISED SECTION B-B	
1-12-00	CORRECTED DIMENSION ON SECTION B-B & REVISED RING & COVER	
5-13-99	ADDED DETAIL OF NOTCH FOR SIDEWALKS	
7-02-98	REPLACED RING & COVER W/HEAVY DUTY RING & COVER ADDED NOTES 9,10,&11	
10-18-96	CORRECTED SPELLING	
4-26-96	ADDED NOTE 8 & REVISED (4'X8') EXTENSION TITLES	10-18-96
4-1-93	REVISED BACK OPENING & NOTE	
8-15-91	DELETE TYPE IV GRATE	
7-15-88	REVISED STEP DETAIL	
5-20-83	REVISED DETAILS OF GRATES (TYPE IV & IV-A)	
2-4-83	ADDED GENERAL NOTE NO. 4	
3-2-81	ADDED TYPE IV-A GRATE	
5-22-74	DELETED INLET (TYPE F) & GRATE (TYPE III)	
10-2-72	REVISED AND REDRAWN	

ARKANSAS STATE HIGHWAY COMMISSION

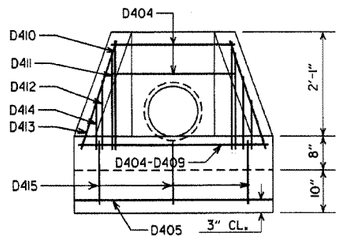
DETAILS OF DROP INLETS

(TYPE C)

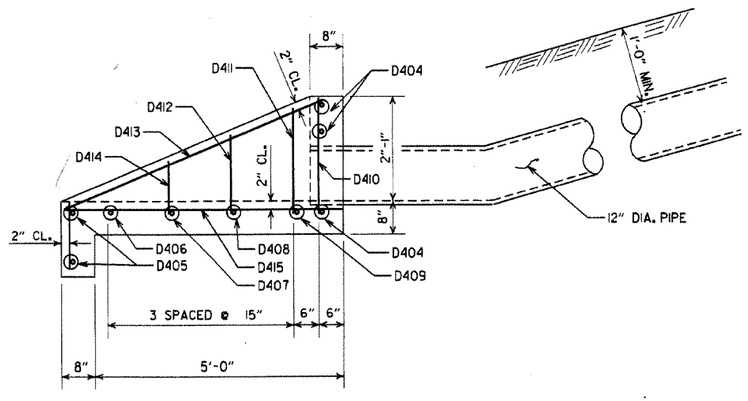
STANDARD DRAWING FPC-9E



PLAN



FRONT ELEVATION

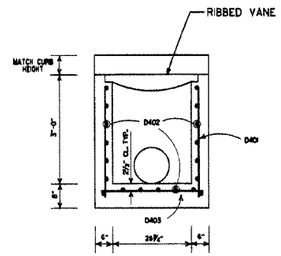


SIDE ELEVATION
CONCRETE SPILLWAY

DETAILS OF CONCRETE SPILLWAY (TYPE A)

BAR LIST (CONCRETE SPILLWAY)

MARK	NO. REQ'D.	LENGTH	BENDING DIAGRAM
D404	3	2'-2"	5'-4", 1'-2", 2" P.D., D415
D405	2	3'-8"	
D406	1	3'-5"	
D407	1	3'-1"	
D408	1	2'-9"	
D409	1	2'-5"	
D410	2	2'-5"	
D411	2	2'-2"	
D412	2	1'-9"	
D413	2	5'-6"	
D414	2	1'-2"	
D415	3	6'-5"	

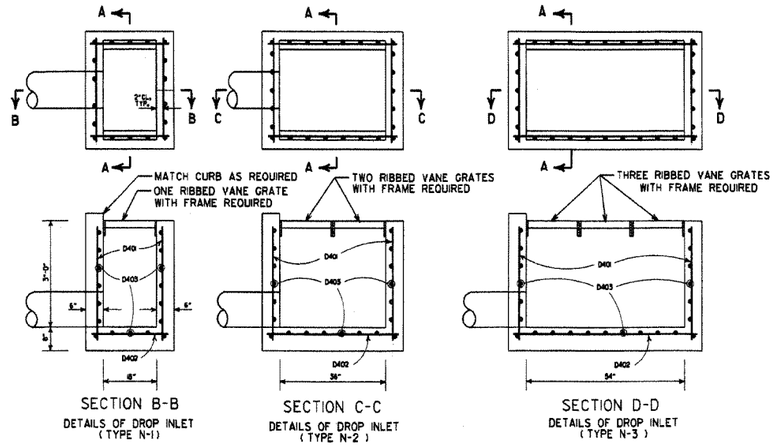


SECTION A-A

BAR LIST (DROP INLET)

MARK	TYPE N-1		TYPE N-2		TYPE N-3	
	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
D401	20	3'-0"	26	3'-0"	32	3'-0"
D402	19	2'-2"	19	3'-8"	19	5'-2"
D403	17	2'-11"	20	2'-11"	23	2'-11"

ALL BARS #4 @ 6" SPACING



SECTION B-B
DETAILS OF DROP INLET
(TYPE N-1)

SECTION C-C
DETAILS OF DROP INLET
(TYPE N-2)

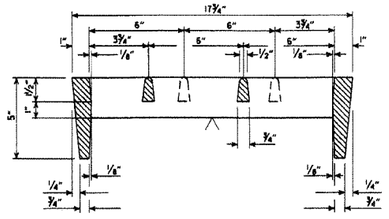
SECTION D-D
DETAILS OF DROP INLET
(TYPE N-3)

DETAILS OF DROP INLET

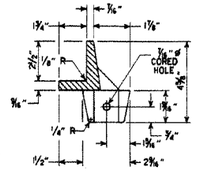
GENERAL NOTES (GRATE & FRAME)

1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105 CLASS 35B & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.

SECTION A-A



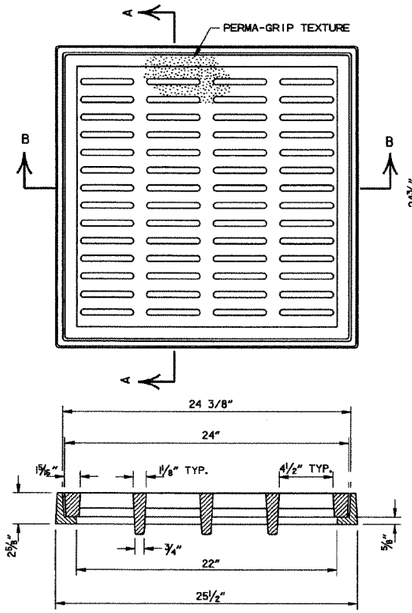
SECTION B-B



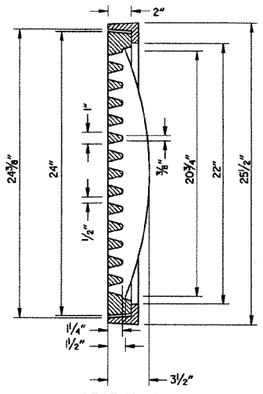
SECTION THRU FRAME

DETAILS OF RIBBED VANE GRATE AND FRAME

			ARKANSAS STATE HIGHWAY COMMISSION
7-02-98	7-2-98	REVISED SECT. A-A DETAIL OF DROP INLET & ADDED AASHTO REF. TO NOTE 1, REVISED GRATE	DETAILS OF DROP INLETS AND SPILLWAY OUTLET
10-18-96		REVISED ASTM REF. TO AASHTO	
8-15-91		ISSUED	
DATE REVISED	DATE FILMED	DESCRIPTION	STANDARD DRAWING FPC-9N



SECTION B-B

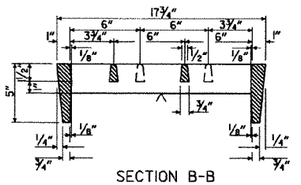


SECTION A-A

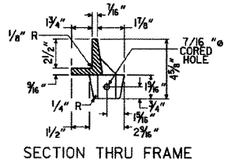
DETAILS OF PEDESTRIAN GRATE AND FRAME

GENERAL NOTES (PEDESTRIAN GRATE & FRAME)

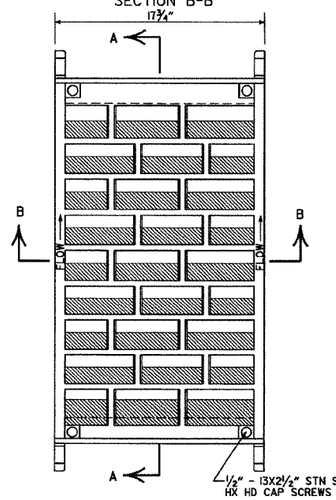
1. THE PEDESTRIAN GRATE SHALL BE ORIENTED IN THE TOP OF THE DROP INLET SO THAT THE 1/2" OPENINGS ARE PERPENDICULAR TO THE PATH OF PEDESTRIAN TRAVEL.
2. THE PEDESTRIAN GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
3. THE GRATE AND FRAME SHALL NOT BE PAINTED.
4. THE GRATE AND FRAME SHALL BE INSTALLED IN THE DROP INLET IN THE ASSEMBLED POSITION.
5. THE APPROXIMATE WEIGHT OF THE GRATE AND FRAME SHALL BE 211LBS.
6. THE MINIMUM WATERWAY OPENING SHALL BE 122 SQ. IN.

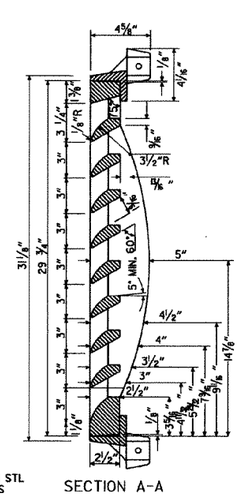


SECTION B-B



SECTION THRU FRAME



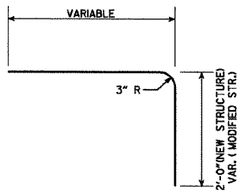


SECTION A-A

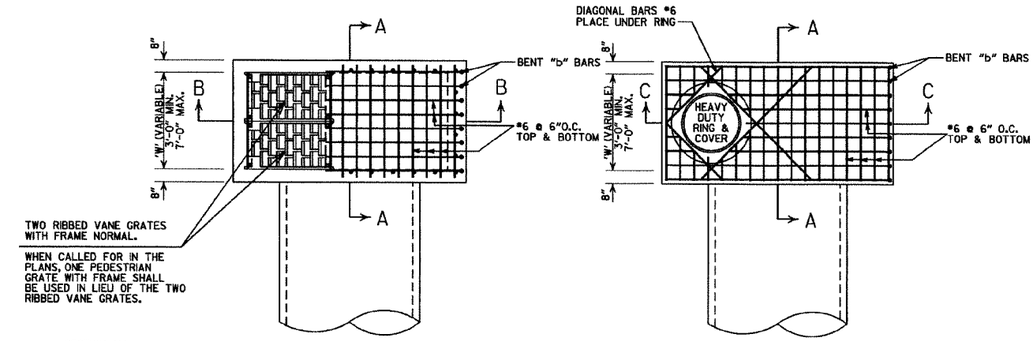
DETAILS OF RIBBED VANE GRATE AND FRAME

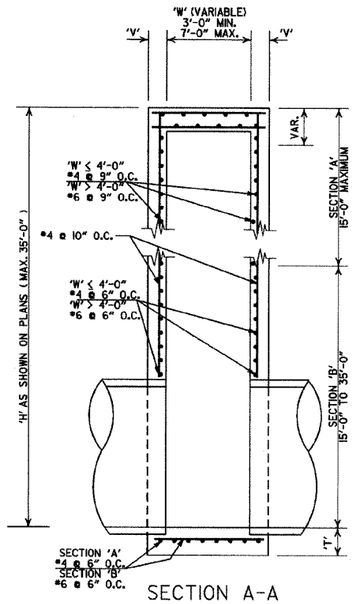
GENERAL NOTES (RIBBED VANE GRATE & FRAME)

1. RIBBED VANE GRATE AND FRAME SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. GRATE AND FRAME SHALL NOT BE PAINTED.
3. GRATE AND FRAME SHALL BE INSTALLED IN DROP INLET IN ASSEMBLED POSITION.
4. APPROXIMATE WEIGHT OF GRATE SHALL BE 170 LBS.



DETAIL OF BENT "b" BAR





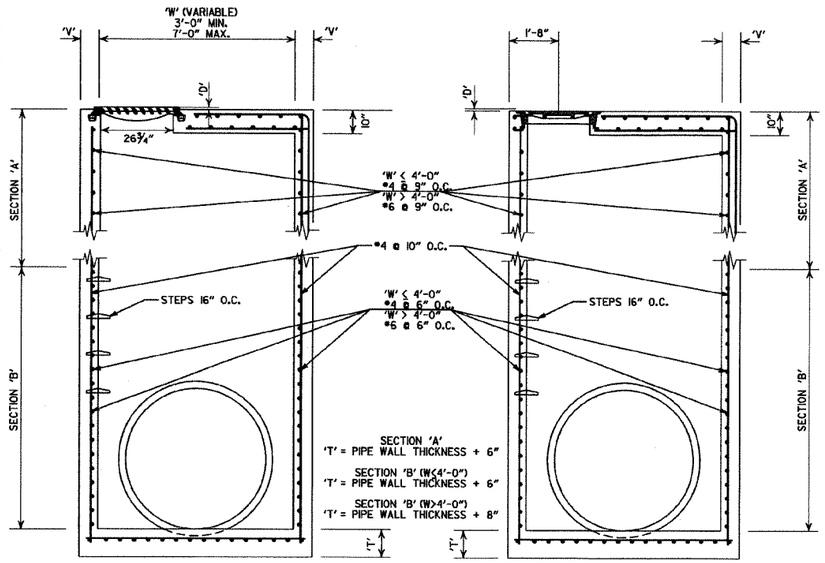
SECTION A-A

DETAILS OF DROP INLET (TYPE ST)

SECTION 'A' 'V' = 8"

SECTION 'B' (W<4'-0") 'V' = 8"

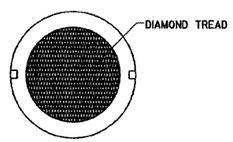
SECTION 'B' (W>4'-0") 'V' = 10"



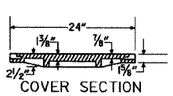
SECTION B-B

SECTION C-C

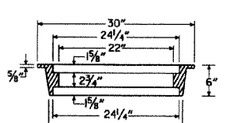
DETAILS OF JUNCTION BOX (TYPE ST)



COVER FACE



COVER SECTION



RING SECTION

HEAVY DUTY RING & COVER

APPROXIMATE TOTAL WEIGHT = 333 LBS.

GENERAL NOTES (TYPE ST DROP INLET & JUNCTION BOX)

1. THE 'D' DIMENSION SHALL MATCH THE FINAL LIFT OF ACHM SURFACE COURSE SHOWN IN THE PLANS WHEN ASPHALT PAVING SURROUNDS THE GRATE OR RING COVER, AND SHALL BE 0" AT OTHER INSTALLATIONS.
2. THE STEPS SHALL BE OMITTED WHERE 'H' IS LESS THAN 4'-0".
3. ALL EXPOSED CORNERS ARE TO HAVE A 3/4" CHAMFER.
4. ALL #4 & #5 REINFORCING BARS ARE TO HAVE A MIN. 1 1/2" COVER. ALL LARGER SIZE BARS ARE TO HAVE A 2" MIN. COVER.

GENERAL NOTES (HEAVY DUTY RING & COVER):

1. HEAVY DUTY RING AND COVER SHALL BE CONSTRUCTED OF CAST IRON AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS AASHTO M 105, CLASS 35B, & AASHTO M 306.
2. HEAVY DUTY RING AND COVER SHALL NOT BE PAINTED.
3. HEAVY DUTY RING SHALL ALWAYS BE INSTALLED WITH FLANGE ON TOP.
4. DIMENSIONS SHOWN FOR RING AND COVER ARE TYPICAL. THE CONTRACTOR MAY SUBSTITUTE SIMILAR CASTINGS WITH THE APPROVAL OF THE ENGINEER. REQUESTING APPROVAL FOR CASTING DESIGNS MAY BE MADE BY REFERRING TO PREVIOUSLY APPROVED DRAWINGS.

DATE REVISED	DATE FILMED	DESCRIPTION
11-16-01		ADDED NOTE 4
1-12-00		REVISED HEAVY DUTY RING & COVER
5-13-99		ADDED PEDESTRIAN FRAME & GRATE
7-02-98		REMOVED NOTE 5, REV. DIMENSIONS, ADDED HEAVY DUTY RING & COVER ADDED AASHTO REF. REVISED GRATE
10-18-96		REVISED ASTM REF. TO AASHTO
10-1-92		REVISED & REISSUED
8-15-91	8-15-91	REVISED & REISSUED

ARKANSAS STATE HIGHWAY COMMISSION

DETAILS OF DROP INLET & JUNCTION BOX (TYPE ST)

STANDARD DRAWING FPC-9S

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43⅜	44	26⅝	27
42	51⅛	51	31 5/16	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87⅛	87
120	154	154	96⅞	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(f)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

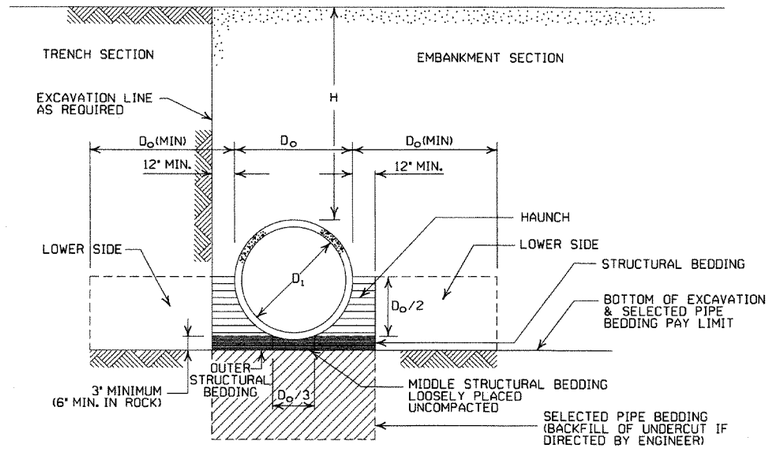
- LEGEND -

D_i = NORMAL INSIDE DIAMETER OF PIPE
D_o = OUTSIDE DIAMETER OF PIPE
H = FILL COVER HEIGHT OVER PIPE (FEET)
MIN. = MINIMUM
= UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3**	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2003 EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170, R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPALLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE			
	CLASS III		CLASS IV	CLASS V
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
	FEET		
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2 OR TYPE 3	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
	FEET	
TYPE 2	13	21
TYPE 3	10	16

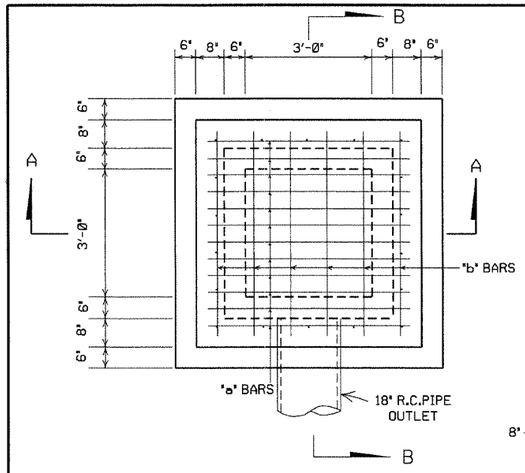
NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

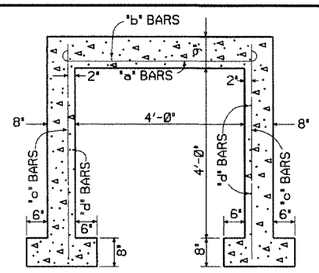
DATE	REVISION	DATE FILMED
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

ARKANSAS STATE HIGHWAY COMMISSION

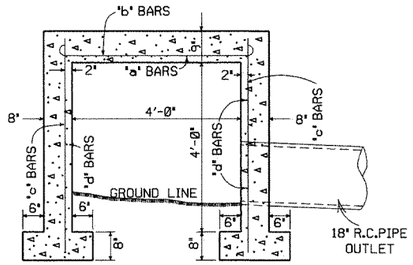
CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

STANDARD DRAWING PCC-1





SEC A-A

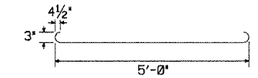


SEC B-B

STEEL SCHEDULE

BARS	NUMBER	LENGTH	SPACING
'a'	11	6'-0"	5"
'b'	6	6'-0"	10"
'c'	16	5'-1"	12"
'd'	16	5'-0"	12"

ALL STEEL TO BE #4 BARS



'a' & 'b' BARS

QUANTITIES

CONCRETE 3.40 CU. YDS.
REINFORCING STEEL 176 LB.

GENERAL NOTE:

THE PAY ITEMS FOR REINFORCED CONCRETE SPRING BOXES SHALL BE FOR THE QUANTITTIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL, EXCAVATION FOR STRUCTURES AND 18" R.C. PIPE CULVERT.

REINFORCED CONCRETE SPRING BOX

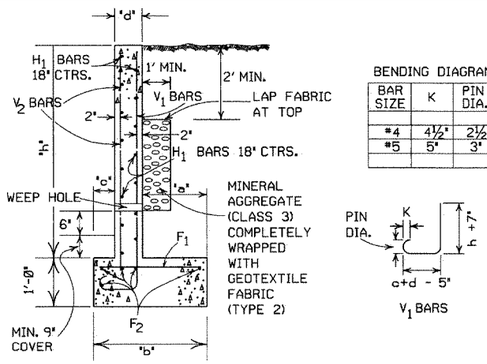
GENERAL NOTES

THE PAY ITEMS FOR THE CONSTRUCTION OF REINFORCED CONCRETE RETAINING WALL SHALL BE FOR THE QUANTITIES OF CONCRETE OF THE CLASS SPECIFIED, REINFORCING STEEL AND EXCAVATION FOR STRUCTURES.

MINERAL AGGREGATE WRAPPED WITH GEOTEXTILE FABRIC (CONTINUOUS) TO BE PLACED 1'-0" IN WIDTH AND 1'-0" IN HEIGHT AS A SUBSIDIARY ITEM TO THE VARIOUS PAY ITEMS.

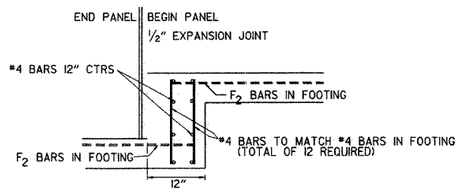
3" WEEP HOLES (MAX. SPACING 10'-0"CTRS.) TO BE PLACED WHERE SPECIFIED BY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO PLACE CONTRACTION JOINTS ON 20' CENTERS AND EXPANSION JOINTS ON 60' CENTERS.

ALL EXPOSED EDGES TO BE CHAMFERED ¾".

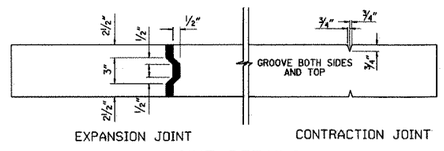


BENDING DIAGRAM

BAR SIZE	K	PIN DIA.
#4	4½"	2½"
#5	5"	3"



FOOTING STEPS

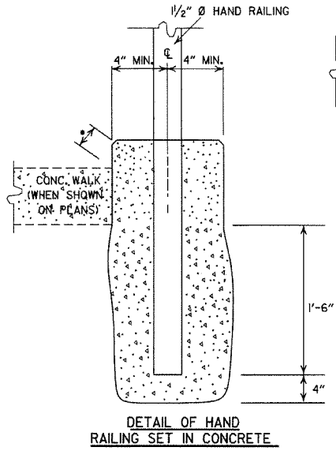


JOINT DETAILS

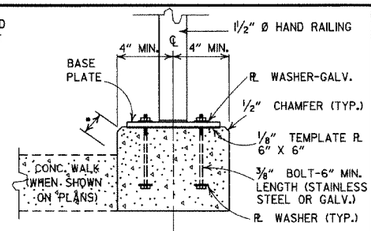
NOTE: JOINT MATERIAL SHALL BE PREFORMED MEETING THE REQUIREMENTS OF SUBSECTION 501.02(h) FOR TYPE 2

REINFORCED CONCRETE RETAINING WALL

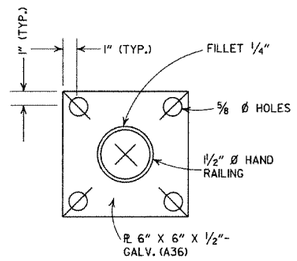
• A 2" MIN. HIGH CURB IS REQUIRED WHEN CONCRETE WALK IS ADJACENT TO THE HAND RAILING. PAYMENT FOR CURB SHALL BE CONSIDERED INCLUDED IN THE PRICE BID FOR CONCRETE WALKS.



DETAIL OF HAND RAILING SET IN CONCRETE

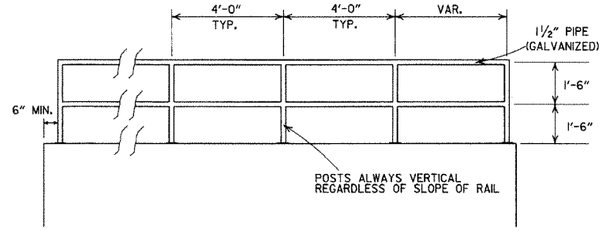


POST CONNECTION TO WALL



BASE PLATE

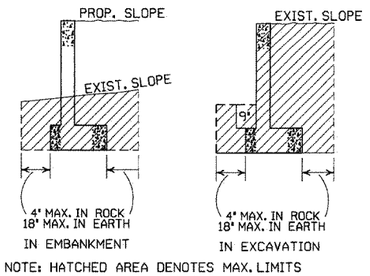
POST CONNECTION DETAILS



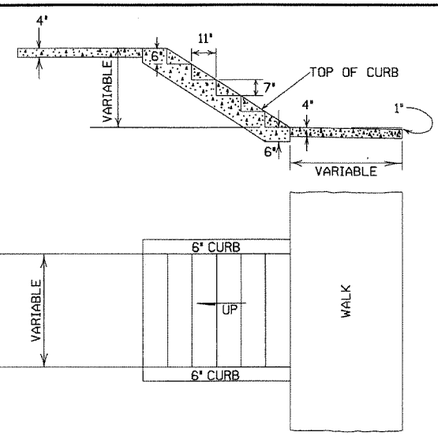
HAND RAILING DETAILS

STEEL SCHEDULE

'c'	'd'	'h'	'a'	'b'	V_1 BARS SIZE	V_1 BARS SPACING	F_1 BARS SIZE	F_1 BARS SPACING	H_1 * 4 BARS SPAC.	V_2 * 4 BARS SPAC.	F_2 * 4 BARS NO. REQ'D.
8"	8"	1'-0"	8"	2'-0"	#4	12"	#4	18"	18"	18"	5
8"	8"	2'-0"	8"	2'-0"	#4	12"	#4	18"	18"	18"	5
8"	8"	3'-0"	8"	2'-0"	#4	12"	#4	18"	18"	18"	5
8"	8"	4'-0"	1'-2"	2'-6"	#4	12"	#4	12"	18"	18"	5
8"	8"	5'-0"	1'-8"	3'-0"	#4	9"	#4	9"	18"	18"	5
8"	8"	6'-0"	2'-2"	3'-6"	#4	6"	#4	6"	18"	18"	6
12"	8"	7'-0"	2'-4"	4'-0"	#4	8"	#4	8"	18"	18"	6
12"	8"	8'-0"	2'-10"	4'-6"	#4	6"	#4	6"	18"	18"	6
15"	10"	9'-0"	2'-11"	5'-0"	#4	5"	#4	5"	18"	18"	6
17"	10"	10'-0"	3'-3"	5'-6"	#5	6"	#5	6"	18"	18"	7



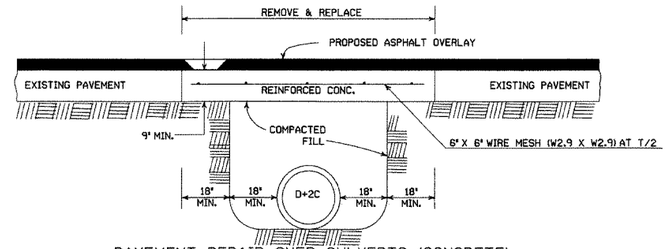
NOTE: HATCHED AREA DENOTES MAX. LIMITS OF EXCAVATION FOR STRUCTURES FOR RETAINING WALL.



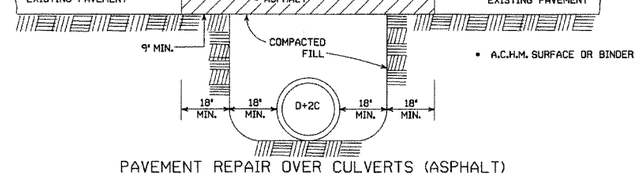
GENERAL NOTES

1. RISE AND TREAD DIMENSIONS OF STEPS MAY BE VARIED AS DIRECTED BY THE ENGINEER, HOWEVER, TREAD WIDTHS SHALL BE 11" MIN. ALL STEPS IN A FLIGHT SHALL HAVE CONSISTENT TREAD & RISER DIMENSIONS.
2. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE WALKS AT 45' INTERVALS.

DETAILS OF CONCRETE STEPS & WALKS



PAVEMENT REPAIR OVER CULVERTS (CONCRETE)



PAVEMENT REPAIR OVER CULVERTS (ASPHALT)

DETAIL SHOWING REPAIR OF EXISTING PAVEMENT AT CULVERT INSTALLATIONS

DATE	REVISION	DATE FILMED
5-25-06	REVISED PVMT REPAIR OVER CULVERTS (CONC); REVISED REINFORCED CONC SPRING BOX	
10-9-03	REVISED PIPE RAILING DETAILS TO HAND RAILING DETAILS	
4-10-03	REVISED RETAINING WALL DRAWING	
8-22-02	ADDED HAND RAILING DETAIL	
11-16-01	REVISED PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES	
11-18-98	ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS	
7-02-98	ENLARGED PIPE	
4-03-97	ADDED NOTE TO STEEL BAR SCHED.	
10-18-96	CORRECTED SPELLING	
4-26-96	ADD WEEP HOLE;REV. JOINT SPACING IN RET. WALL	
6-2-94	CHANGED CONST. TO CONTRACTION JOINT	
10-1-92	CHANGED MESH FABRIC TO WIRE MESH	10-1-92
8-15-91	DELETED HDWL MODIFICATION DETAIL	8-15-91
11-8-90	DELETED COLD MIX FROM CULV'T. REPAIR	11-8-90
11-30-89	REV. RETAINING WALL STEEL SCHEDULE	11-30-89
11-17-88	V_1 BARS BEHIND ARROW	665-11-17-88
7-15-88	REV. PAVEMENT REPAIR	649-7-15-88
	ADDED HDWL. MODS, DEL. PIPE UNDERDRAINS	
11-1-84	REV. TRENCH FOR PIPE UNDERDRAIN	510-11-1-84
1-4-83	ELIMINATED CONC. CLASS & ADDED CHAMFER NOTE	682-1-4-83
3-2-81	SPELLING OF 'UNDERDRAIN'	721-3-2-81
4-20-79	REV. UNDERDRAIN DET.& PAVEMENT REPAIR	674-4-20-79
2-2-76	12"MIN. GRAN. MAT'L. OVER PIPE	919-2-2-76
4-10-75	REM. SPECS. FOR GRAN. MAT'L. 568	4-10-75-853
5-22-74	GRANULAR MAT'L. TO BE SB-3 567	5-22-74-740
10-2-72	REVISED AND REDRAWN	564-10-16-72

4-17-08	REV. JOINT & FOOTING STEP DETAILS
11-29-07	REVISED RETAINING WALL DRAINAGE

ARKANSAS STATE HIGHWAY COMMISSION

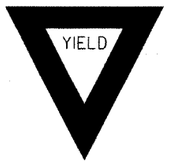
DETAILS OF SPECIAL ITEMS

STANDARD DRAWING SI - 1

R1-1

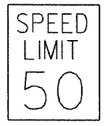
STANDARD 30"X30"
EXPRESSWAY 36"X36"
SPECIAL 48"X48"

R1-2



STD. 36"X36"X36"
EXPWY. 48"X48"X48"
FWY. 60"X60"X60"

R2-1



STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R2-5A

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R2-5C

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-1

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

R4-2

STD. 24"X30"
EXPWY. 36"X48"
FWY. 48"X60"

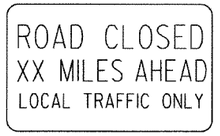
R5-1

STD. 30"X30"
EXPWY. 36"X36"
SPECIAL 48"X48"

R11-2

48"X30"

R11-3A



60"X30"

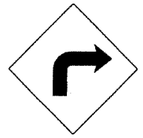
R11-4

60"X30"

RSP-1

48"X30"

W1-1



STD. 36"X36"
FWY. 48"X48"

W1-2

STD. 36"X36"
FWY. 48"X48"

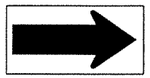
W1-3

STD. 48"X48"

W1-4

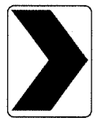
STD. 48"X48"

W1-6



STD. 48"X24"
SPECIAL 60"X30"

W1-8



STD. 18"X24"
SPECIAL 24"X30"
EXPWY. 30"X36"
FWY. 36"X48"

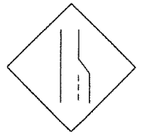
W3-1

STD. 36"X36"
SPECIAL 48"X48"

W3-2

STD. 36"X36"
SPECIAL 48"X48"

W4-2



STD. 36"X36"
FWY. 48"X48"

W5-1

STD. 36"X36"
SPECIAL 48"X48"

W6-3

EXPWY. 36"X36"
SPECIAL 48"X48"

W8-7

EXPWY. 36"X36"
FWY. 48"X48"

W9-2

STD. 36"X36"
FWY. 48"X48"

W13-1

STD. 24"X24"

W20-1

STD. 48"X48"

W20-2

STD. 48"X48"

W20-3

STD. 48"X48"

W20-4

STD. 48"X48"

W20-5

STD. 48"X48"

W20-7a

STD. 36"X36"
FWY. 48"X48"

W21-2

STD. 30"X30"
SPECIAL 36"X36"

W21-5

STD. 30"X30"
SPECIAL 36"X36"

W24-1

STD. 36"X36"

W1-4b

STD. 48"X48"

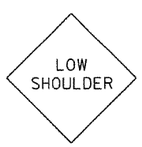
R56-1

STD. 18"X18"

W8-11

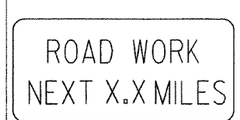
STD. 36"X36"
FWY. 48"X48"

W8-9



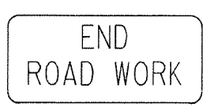
STD. 36"X36"
FWY. 48"X48"

G20-1



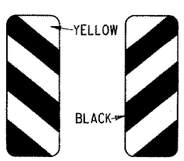
60"X24"

G20-2



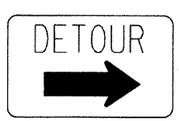
48"X24"

OM-3L OM-3R



12"X36"

M4-9



STD. 30"X24"
SPECIAL 48"X36"
SPECIAL 60"X48"

M4-10

48"X18"

R55-1

FINES DOUBLE
IN WORK ZONES *

WHEN WORKERS
ARE PRESENT **

36"X60"

* USE 6" C LETTERS
** USE 4" D LETTERS

ADVANCE DISTANCES
(XXXX)

500 FT	1/2 MILE
1000 FT	3/4 MILE
1500 FT	1 MILE
	AHEAD

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.
2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.
3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.
- 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ. FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III BARRICADE.
- 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.
6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT EDGE.
7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (1) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS.
8. FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
9. MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.
10. R55-1 SIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN 1 MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.

- NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED. COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.

DATE	REVISION	FILMED
12-15-11	REVISED W24-1	
11-17-10	DELETED W8-9a & ADDED W8-9	
10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-1	
4-17-08	REVISED SIGN DESIGNATIONS	
11-18-04	REVISED NOTES	
10-9-03	REVISED NOTE 1	
11-16-01	REVISED NOTE 7	
9-28-00	REVISED NOTE	
11-18-98	ADDED NOTE	
6-26-97	REVISED NOTE 5	
4-03-97	REVISED NOTE 5	
10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7	
10-12-95	ADDED R55-1	
6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95
2-2-95	REVISED PER PART VI, MUTCD SEPT. 3, 1993	
8-15-91	DRAWN AND PLACED IN USE	

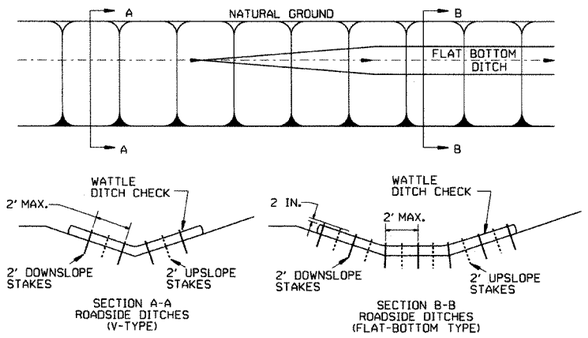
ARKANSAS STATE HIGHWAY COMMISSION

STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

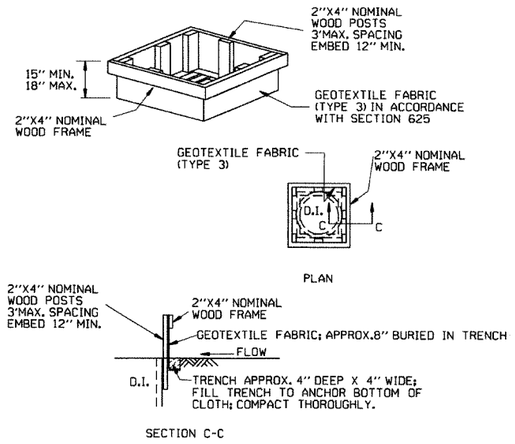
STANDARD DRAWING TC-1

GENERAL NOTES

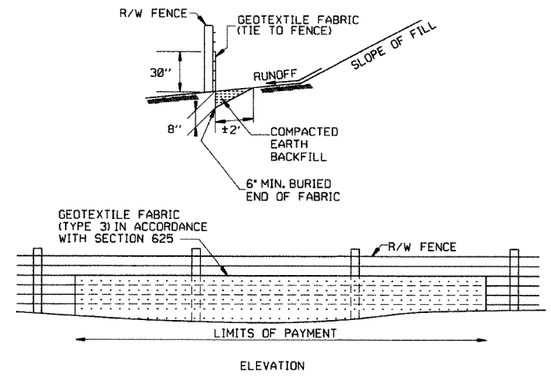
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



DROP INLET SILT FENCE (E-7)



SILT FENCE ON R/W FENCE (E-4)

GENERAL NOTES

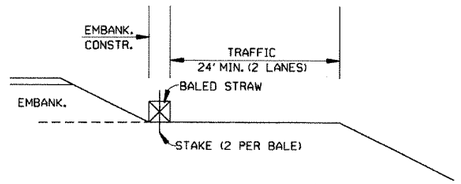
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

GENERAL NOTES

1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.

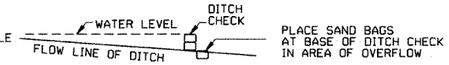
2. NO GAPS SHALL BE LEFT BETWEEN BALES.

3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

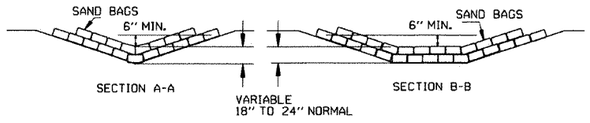


BALED STRAW FILTER BARRIER (E-2)

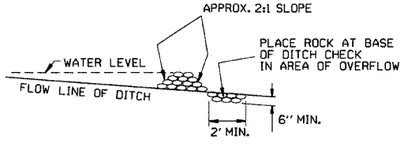
NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS.

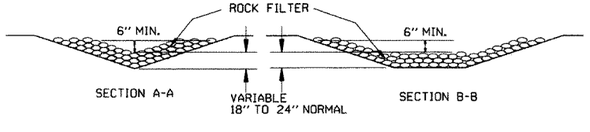


PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW

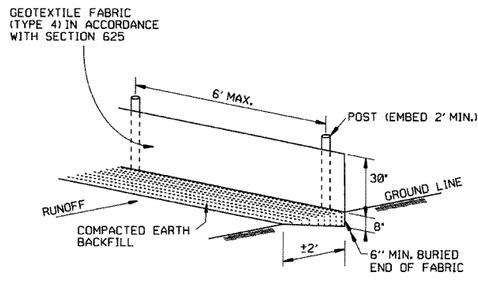


SAND BAG DITCH CHECK (E-5)





ROCK DITCH CHECK (E-6)



SILT FENCE (E-11)

GENERAL NOTES

GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

DATE	REVISION	FILMED
12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK	
11-18-98	ADDED NOTES	
7-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)	
7-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95
7-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC	
6-2-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94
4-1-93	REDRAWN	
10-1-92	REDRAWN	
8-2-76	ISSUED R.D.M.	298-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

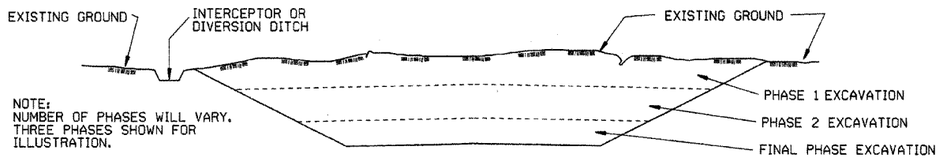
STANDARD DRAWING TEC-1

CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE

1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES , DIVERSION DITCHES, SEDIMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION



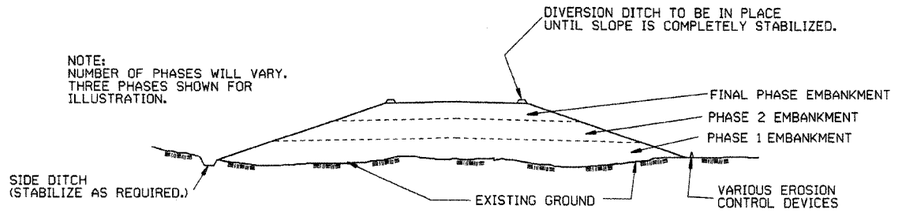
GENERAL NOTE

ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE OF EXCAVATION. PLACE PERMANENT OR TEMPORARY SEEDING. STABILIZE DITCHES. CONSTRUCT DITCH CHECKS, DIVERSION DITCHES, SEDIMENT BASINS, OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT



GENERAL NOTE

ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEEDED, AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE

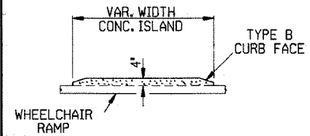
1. CONSTRUCT DIVERSION DITCHES, DITCH CHECKS, SEDIMENT BASINS, SILT FENCES, OR OTHER EROSION CONTROL DEVICES AS SPECIFIED.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PROVIDE DIVERSION DITCHES AND SLOPE DRAINS IF EMBANKMENT CONSTRUCTION IS TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 21 DAYS.
4. PLACE FINAL PHASE OF EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING. PLACE DIVERSION DITCHES AND SLOPE DRAINS AND MAINTAIN UNTIL ENTIRE SLOPE IS STABILIZED.

DATE	REVISION	FILMED
11-03-94	CORRECTED SPELLING	
6-2-94	Drawn & Issued	6-2-94

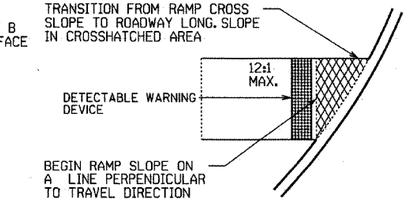
ARKANSAS STATE HIGHWAY COMMISSION

TEMPORARY EROSION CONTROL DEVICES

STANDARD DRAWING TEC-3



CONCRETE ISLAND DETAIL



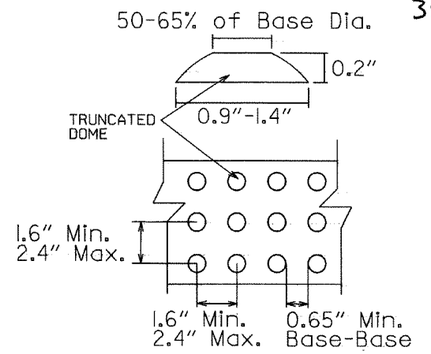
SLOPE TRANSITION DETAILS

TYPE 1 RAMP DIMENSIONS AND QUANTITIES

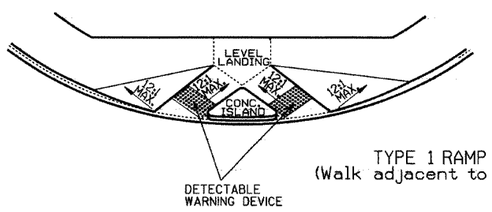
RADIUS 'R' FEET	DISTANCE 'X' FEET	DISTANCE 'Y' FEET	LENGTH 'L' FEET	RAMP AREA 'A' SQ. YD.
15	11.67	18.82	32.18	26.21
20	11.52	22.28	35.46	30.07
25	11.43	26.60	38.77	33.80
30	11.37	30.26	40.93	36.90
35	11.33	33.51	43.11	39.77
40	11.30	36.45	45.26	42.45
45	11.27	39.16	47.34	44.97
50	11.25	41.69	49.36	47.35
55	11.24	44.07	51.31	49.63
60	11.22	46.33	53.21	51.80

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

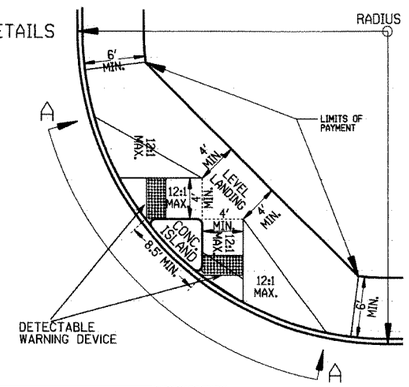
THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
DETECTABLE WARNING DEVICE SHALL BE ON THE AHTD QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).

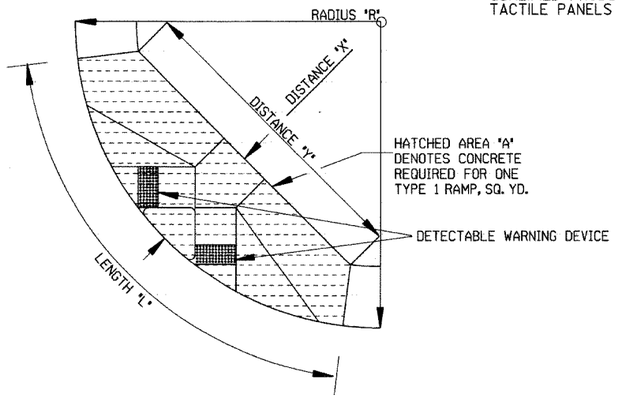


DETECTABLE WARNING DEVICE DETAIL



TYPE 1 RAMP
(Walk adjacent to curb)



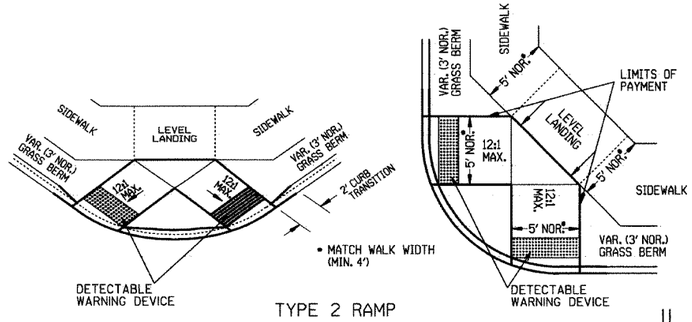


SECTION A-A

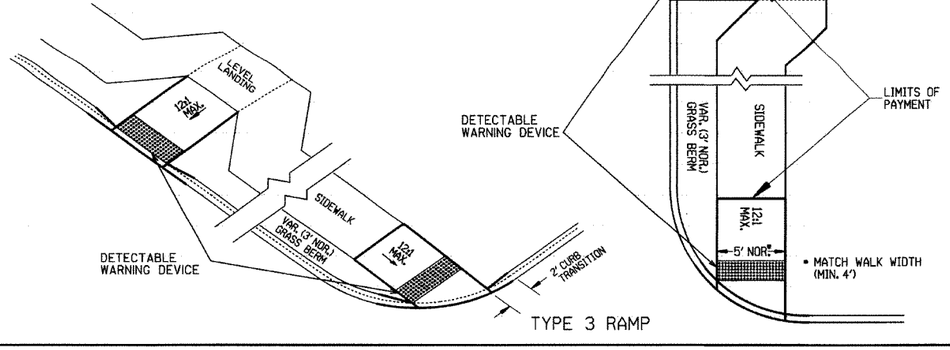
NOTE:
THE CROSS SLOPE OF THE RAMPS, LEVEL LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGTITUDINAL GRADE.

GENERAL NOTES:

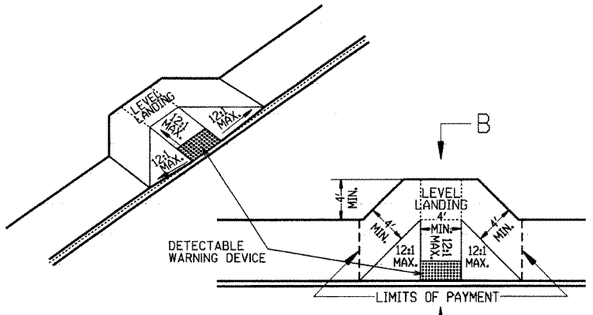
IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, WHEELCHAIR RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS.
IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS.
THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19.
THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.
THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4".
THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE WALK WIDTH OR 36", WHICHEVER IS GREATER.
RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM THE CENTER OF ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION.
THE DIMENSIONS AND QUANTITIES SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS AND QUANTITIES FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.



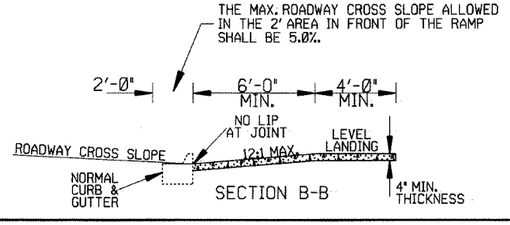
TYPE 2 RAMP



TYPE 3 RAMP



TYPE 4 RAMP
(Walk adjacent to curb)



SECTION B-B

RAMP SELECTION CRITERIA

FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED.

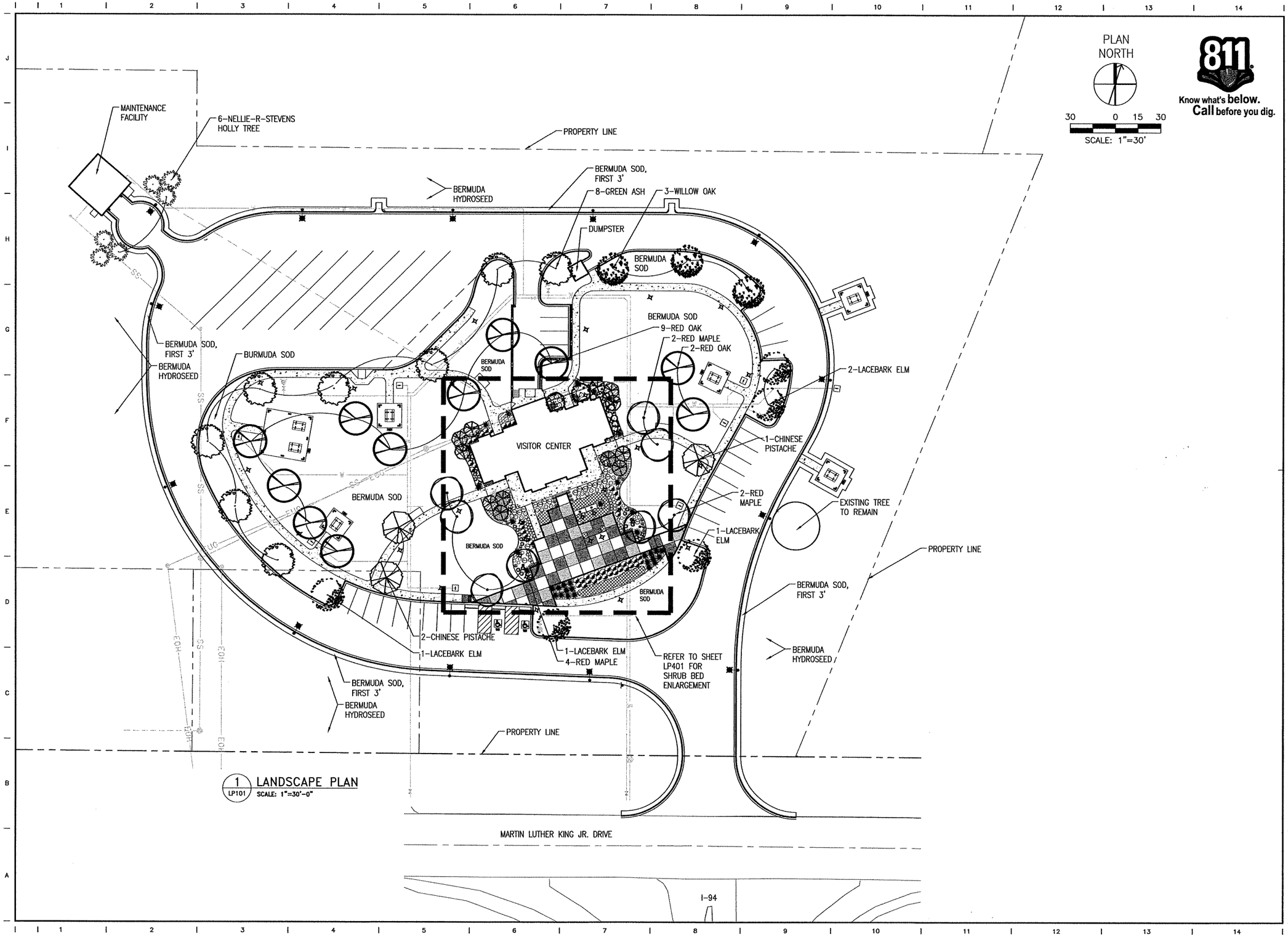
AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.

DATE	REVISION	DATE FILM
11-10-05	REVISED TO NEW SIDEWALK POLICY	
10-9-03	REVISED GEN. NOTES & ADDED NOTE	
4-10-03	REV. DETECTABLE WARNING DEVICES	
8-22-02	ADD DETECTABLE WARNING DEVICES	
3-30-00	ADD. SLOPE TRANS. & REV. ISL. DIMS.	
11-18-98	REVISED NOTES	
8-12-98	REVISED TEXTURE	
7-02-98	REDRAWN & REISSUED	
10-18-96	CORRECTED DIMENSIONS	10-18-96
5-24-90	FROM8:1TO12:1MAX.SLOPES	5-24-90
7-15-88	ADJUSTED MAX. SLOPE	652-7-15-88
7-14-88	INCL.I.D."CONC. ISLD."IN PAY ITEM	------
6-02-76	ISSUED-P.H.D.	299-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS
NEW CONSTRUCTION
AND ALTERATIONS

STANDARD DRAWING WR-1



1 LP101 **LANDSCAPE PLAN**
SCALE: 1"=30'-0"

SAIC
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SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8-15-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

LANDSCAPE PLAN

DESIGNED BY	DJK
DRAWN BY	DJK
CHECKED BY	DS
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LP101
REV	0
	39 OF 120

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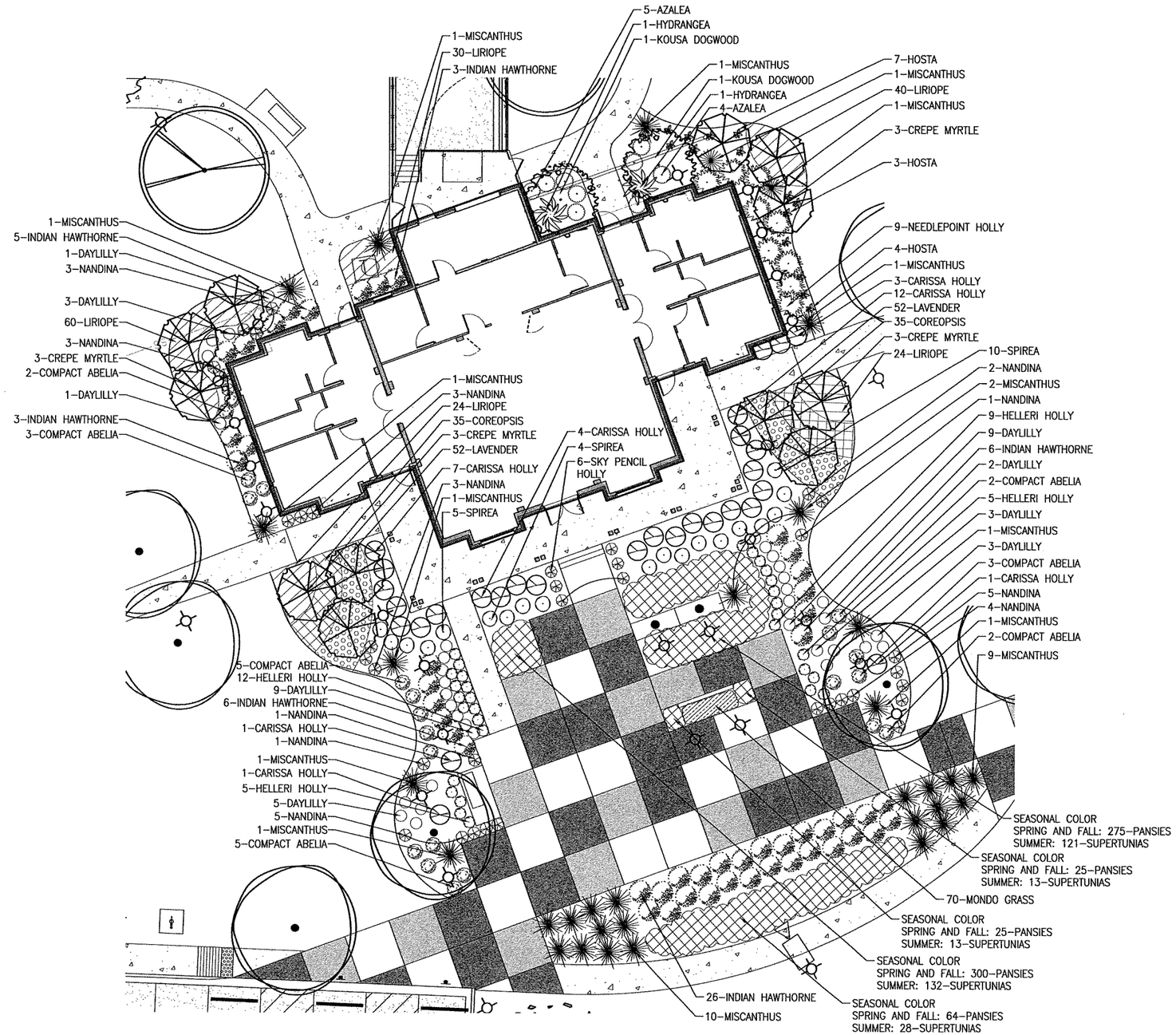

1 LP401 LANDSCAPE PLAN ENLARGEMENT
SCALE: 1"=10'-0"

PLAN NORTH

10 0 5 10
SCALE: 1"=10'

811 Know what's below. Call before you dig.

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

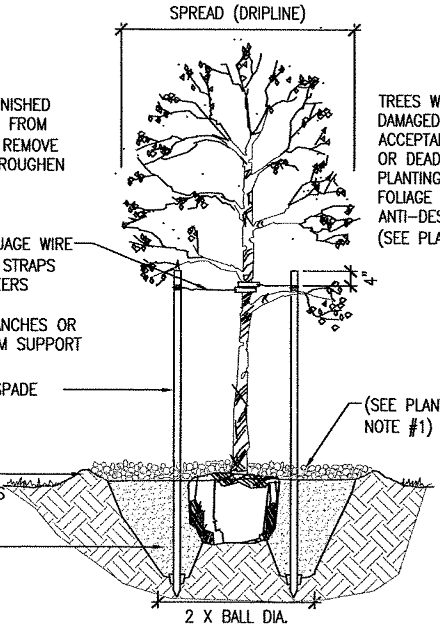
West Helena, Arkansas
AHTD Job No. 110536

LANDSCAPE PLAN ENLARGEMENT

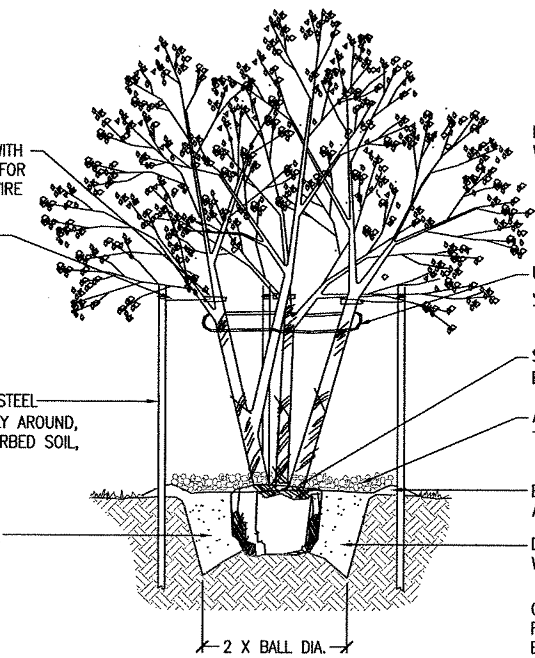
DESIGNED BY	DJK
DRAWN BY	DJK
CHECKED BY	DS
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LP401
REV	0

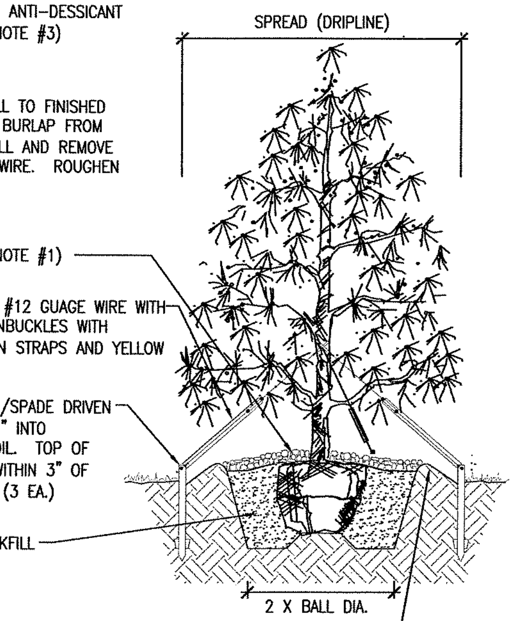
40 OF 120



1 LP501 **TREE PLANTING**
NOT TO SCALE



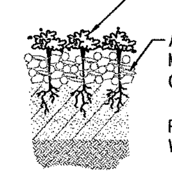
2 LP501 **MULTI-TRUNK TREE PLANTING**
NOT TO SCALE



3 LP501 **EVERGREEN TREE PLANTING**
NOT TO SCALE

NOTES FOR ALL PLANTING:

1. ALL LANDSCAPE BEDS ARE ARE TO BE MULCHED AFTER PLANTING WITH A LAYER OF SHREDDED PINE, CYPRESS OR CEDAR MULCH TO A THICKNESS OF 4" COMPACTED.
2. IMMEDIATELY AFTER PLANTING DEEP WATER TO SETTLE NEW BACKFILL MIX TO ELIMINATE AIR POCKETS.
3. IMMEDIATELY AFTER PLANTING SPRAY ALL FOLIAGE ON ALL PLANTS WITH AN ANTI-DESSICANT.
4. IMMEDIATELY AFTER PLANTING INSTALL NYLON STRAPS WITH BRASS GROMMETS, 1-1/2"-2" X AS REQUIRED.
5. IMMEDIATELY AFTER PLANTING INSTALL YELLOW "WIRE" SAFETY MARKERS - PLASTIC GARDEN HOSE 1/2" X AS REQUIRED.
6. CONSTRUCT AND MAINTAIN A 6" HIGH COMPACTED BERM OUTSIDE THE DRIPLINE OF ALL TREES AND 4" AROUND SHRUBS
7. STEEL "T" POST SHALL BE NEW AND RATED 1.25 LBS. PER LINEAR FOOT.
8. THE LOCATIONS OF THE PLANTS SHOWN ON THE PLANS ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, AS DIRECTED OR APPROVED BY THE CONTRACTING OFFICER OR DESIGNATED REPRESENTATIVE.
9. NO PLANT SUBSTITUTIONS WILL BE ALLOWED UNLESS APPROVED BY THE CONTRACTING OFFICER OR DESIGNATED REPRESENTATIVE.
10. CONTRACTOR TO BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL SITE UTILITY LINES AND BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM PLANTING OPERATIONS.
11. FINISH GRADE FOR TURF GRASS AREAS SHALL BE 1-1/2" BELOW THE TOP OF ADJACENT PAVEMENT, CURBS, AND STEEL EDGING TO ACCOMMODATE SOD THICKNESS
12. ALL AREAS DISTURBED BY CONSTRUCTION AND NOT SHOWN TO BE SURFACED OTHERWISE, I.E. CURBS, PAVING, SODDED AREAS OR PLANTING BEDS SHALL BE HYDRO SEEDED.
13. ALL LAWN AND GROUNDCOVER BED AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS.
14. ALL LANDSCAPE BEDS ARE TO BE CULTIVATED TO A DEPTH OF 12", REMOVING ALL GRASS, WEEDS, ROOTS, ROCKS, AND OTHER DELETERIOUS MATERIAL. FOLLOWING CULTIVATION, INCORPORATE WITH A 2" LAYER OF COMPOST MATERIAL AND TILLED INTO A DEPTH OF 6". SEASONAL COLOR BEDS TO RECEIVE AN ADDITIONAL 2" LAYER OF COMPOST MATERIAL.
15. AMEND THE EXISTING TOPSOIL PER SOILS REPORT.
16. QUANTITIES ON THE PLANT LIST ARE FOR CONVENIENCE ONLY, THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON THE PLANTING PLAN AND COVERAGE OF ALL AREAS DELINEATED. WHEN DISCREPANCIES OCCUR BETWEEN THE PLANT LIST AND PLANTING PLANS, THE PLANS ARE TO SUPERSEDE THE PLANT LIST.



4 LP501 **GROUND COVER PLANTING**
NOT TO SCALE

PLANT LIST

QTY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
	TREES			
3	CHINESE PISTACHE TREE	PISTACIA CHINENSIS	1-1/2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
12	CREPE MYRTLE TREE	LAGERSTROEMIA INDICA 'TUSCARORA'	12'-14'	MULTI-TRUNK WITH A MINIMUM OF 3 MAIN CANES WITH A MINIMUM CALIPER OF 1 1/2" EACH
2	KOUSA DOGWOOD	CORNUS KOUSA	10 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
5	LACEBARK ELM	ULMUS PARVIFOLIA	2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
8	MARSHALL GREEN ASH TREE	FRAXINUS PENNSYLVANICA 'MARSHALL'	2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
6	NELLIE R. STEVENS HOLLY	ILEX X 'NELLIE R. STEVENS'	1" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
3	QUERCUS PHELLOS	WILLOW OAK	2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
8	RED SUNSET MAPLE TREE	ACER RUBRUM 'FRANKSRED'	2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
11	RED OAK TREE	QUERCUS RUBRA	2" CAL	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
	SHRUBS & GROUND COVER			
2	BLUE WAVE HYDRANGEA	HYDRANGEA MACROPHYLLA 'BLUE WAVE'	5 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
21	COMPACT ABELIA	ABELIA X GRANDIFLORA 'COMPACTA'	1 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
29	CARISSA HOLLY	ILEX CORNUTA 'CARISSA'	5 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
31	COMPACT NANDINA	NANDINA DOMESTICA 'COMPACTA'	1 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
70	COREOPSIS	COREOPSIS VERTICILLATA 'MOONBEAM'	4" POT	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
9	GIRARD'S AZALEA	AZALEA GIRARD 'ROSE'	2 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
19	GOLDMOUND SPIREA	SPIREA X 'GOLDMOUND'	1 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
36	HEMEROCALLIS	DAYLILY	1 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
14	HOSTA	HOSTA 'FRANCEE'	1 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
31	ILEX CRENATA 'HELLERI'	HELLERI HOLLY	3 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
6	ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY	3 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
49	INDIAN HAWTHORNE	RHAPIOLEPIS INDICA 'SNOW WHITE'	3 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
104	LAVENDER	LAVANDULA AUGUSTIFOLIA 'HIDCOTE'	4" POT	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
180	LIRIOPE	LIRIOPE MUSCARI 'BIG BLUE'	4" POT	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
33	MAIDEN GRASS	MISCANTHUS SINENSIS 'AUTUMN LIGHT'	5 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
9	NEEDLEPOINT HOLLY	ILEX CORNUTA 'NEEDLEPOINT'	7 GALLON	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
70	OPHIOPOGON JAPONICUS	MONDO GRASS	4" POT-8" O.C.	WELL BRANCHED MATCHING IN QUALITY, FORM AND SIZE
664 281	FALL / SPRING = PANSIES 12" O.C. SUMMER = SUPERTUNIA 18" O.C.	VERIFY VARIETY WITH OWNER	4" POT	
NOTE: REFER TO G-003 FOR CLEARING, SEEDING, AND SODDING QUANTITIES				

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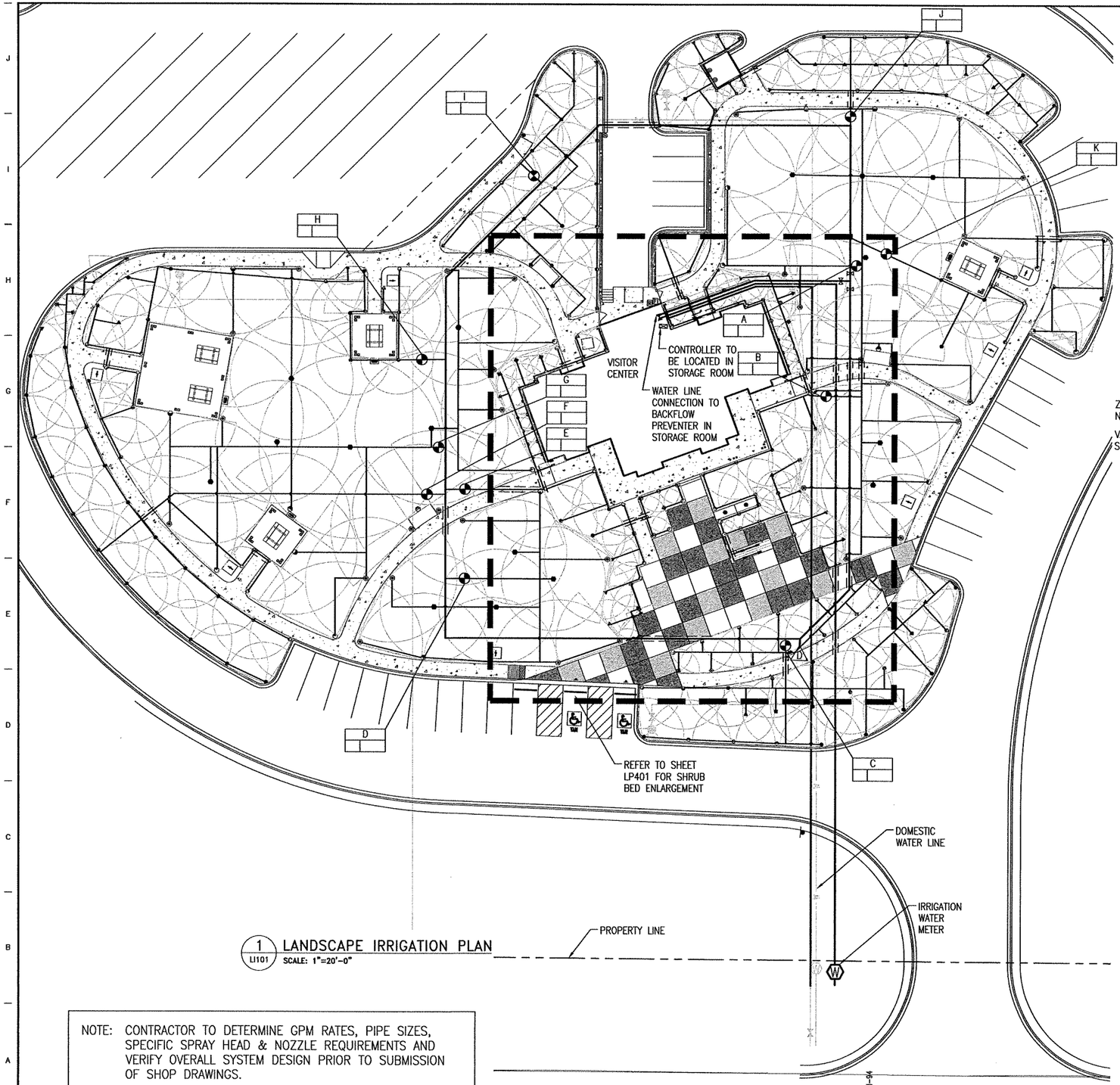
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
LANDSCAPE DETAILS AND PLANT SCHEDULE

DESIGNED BY	DJK
DRAWN BY	DJK
CHECKED BY	DS
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LP501
REV	0

SHEET FORMAT IS 22" X 34" IF PRINTED SHEET IS NOT 22" X 34" THEN IT IS NOT TO SCALE



1 LI101 **LANDSCAPE IRRIGATION PLAN**
SCALE: 1"=20'-0"

NOTE: CONTRACTOR TO DETERMINE GPM RATES, PIPE SIZES, SPECIFIC SPRAY HEAD & NOZZLE REQUIREMENTS AND VERIFY OVERALL SYSTEM DESIGN PRIOR TO SUBMISSION OF SHOP DRAWINGS.

LEGEND

- 110 VOLT CONTROLLER AND VALVES RAINBIRD ESP-LXME (12 STATION CONTROLLER), VERIFY LOCATION W/ OWNER.
- ELECTRIC ZONE VALVE W/VALVE COVER BOX RAINBIRD PEB SERIES (SIZE AS NOTED ON PLANS)
- REDUCED PRESSURE BACKFLOW PREVENTER (1" WILKINS 950-XL) CONTRACTOR TO VERIFY SIZE.
- SCHEDULE 40 PVC SLEEVING PROVIDE SEPARATE SLEEVE FOR CONTROL WIRE (TYP.)
- ISOLATION GATE VALVE (HAMMOND IB 645 1" GATE VALVE) CONTRACTOR TO VERIFY SIZE.
- (D) MAINLINE DRAIN VALVE BUCKNER 22003 1" ANGLE VALVE INSTALL ONE (1) DRAIN PER EACH ISOLATED AREA OF MAIN LINE. VALVES TO BE FIELD LOCATED WITH OWNER'S APPROVAL. CONTRACTOR TO VERIFY SIZE.
- SCHEDULE 40 PVC MAIN LINE
- SCHEDULE 40 PVC LATERAL
- ZONE NO. / L / 2" / 47.61 / VALVE SIZE / GPM — ZONE IDENTIFICATION
- (W) IRRIGATION WATER METER

811 Know what's **below.** **Call** before you dig.

PLAN NORTH

20 0 10 20
SCALE: 1"=20'

IRRIGATION NOTES:

A. IRRIGATION CONTRACTOR SHALL TEST EXISTING RESIDUAL PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 50 STATIC, CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
B. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN SO AS TO PROVIDE POSITIVE DRAINAGE OF IRRIGATION MAIN DURING WINTER MONTHS, OR PROVIDE BLOWOUT ASSEMBLY. INSTALLATION SHALL BE PER DETAIL.
C. ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS PER DETAIL.
D. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
E. LOCATION FOR THE IRRIGATION SYSTEM AS SHOWN IS FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILITY LINE TO BE CONNECTED.
F. REMOTE CONTROL VALVE CONTROLLER WILL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
G. ALL REMOTE CONTROL VALVE (R.C.V.) CONTROLLER WIRES ARE TO BE PLACED IN EXISTING 6" PVC CONDUIT SLEEVING WHILE UNDER PAVING. ROUTING OF R.C.V. CONTROLLER WIRES TO THE CONTROL VALVES IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
H. ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS FROM THE REMOTE CONTROL VALVE CONTROLLER TO THE CONTROL VALVES SHALL BE INSTALLED PER DETAIL.
J. THRUST BLOCKING SHALL BE APPLIED WHERE NECESSARY.
K. LAYOUT OF PIPING IS DIAGRAMMATIC. FIELD ADJUST FOR ACTUAL CONDITIONS. IRRIGATION CONTRACTOR TO BE RESPONSIBLE FOR AVOIDING ALL SITE UTILITIES.
L. TRENCHES FOR IRRIGATION LINES SHALL BE PLACED A MINIMUM OF 2' AWAY FROM ALL BUILDINGS WHERE LATERAL LINES ARE SHOWN ADJACENT TO BUILDINGS.
M. 14 GA. COPPER WIRE IS TO BE INSTALLED AS A TRACE WIRE ALONG ALL MAIN LINES THROUGHOUT THE IRRIGATION SYSTEM.
N. CIRCUIT PANEL AND CONTROLLER TO BE LOCATED IN SERVICE ROOM. EXACT PLACEMENT TO BE COORDINATED WITH OWNER'S REPRESENTATIVE. LOCATIONS ARE TO BE COORDINATED WITH THE AHTD REPRESENTATIVES.
P. ALL LATERAL PIPES ARE MINIMUM 1".
R. DRAIN THE SYSTEM MAINLINES PRIOR TO THE BEGINNING OF THE WINTER FREEZING TEMPERATURES.
S. SLEEVES FOR PIPING ARE TO BE TWO TIMES LARGER THAN THE PIPE BEING SLEEVED.

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SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED LANDSCAPE ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

LANDSCAPE IRRIGATION PLAN

DESIGNED BY	DJK
DRAWN BY	DJK
CHECKED BY	DS
APPROVED BY	MDG

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LI101
REV	0
	42 OF 120

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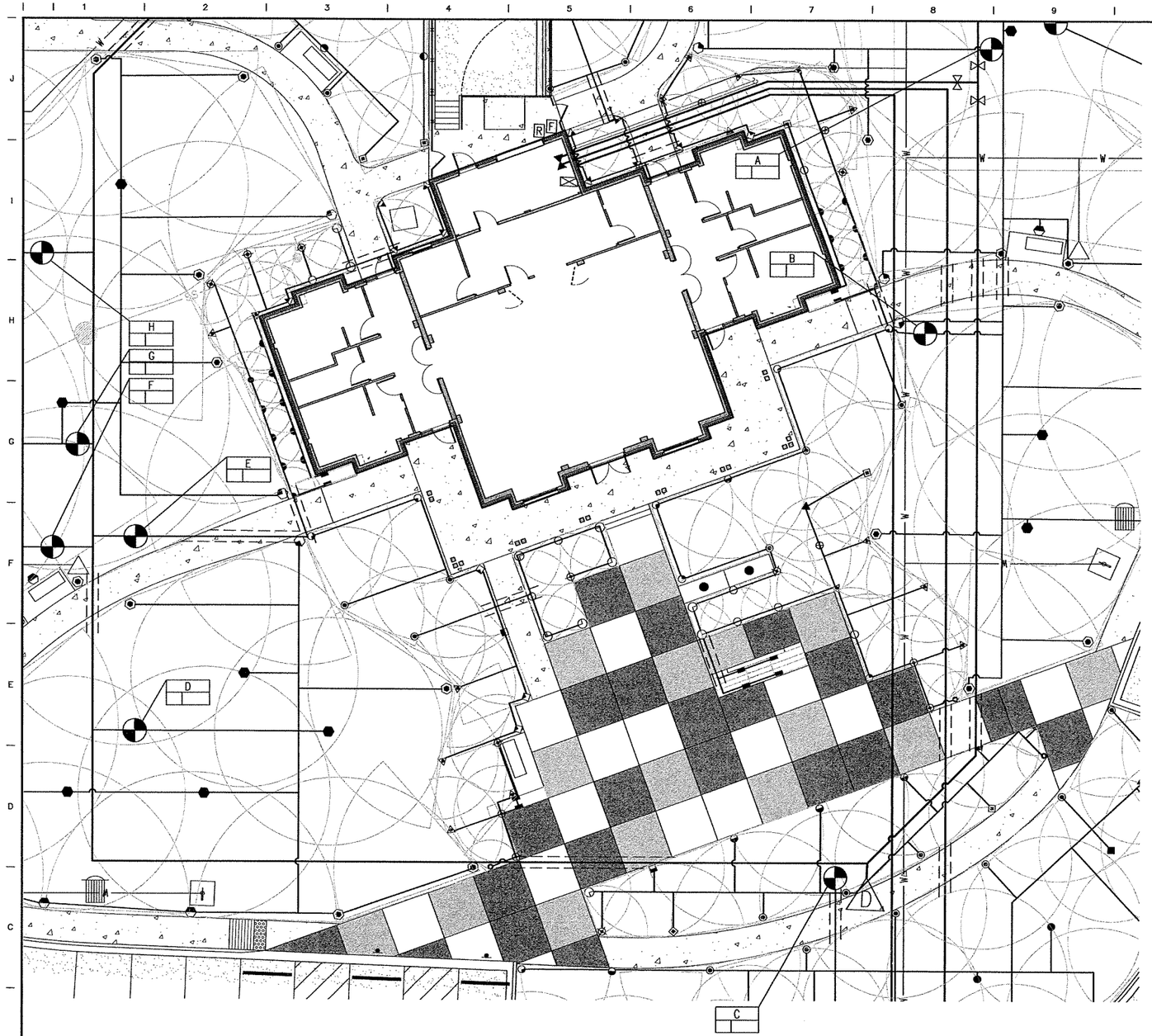

LEGEND

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- SCHEDULE 40 PVC MAIN LINE
- SCHEDULE 40 PVC LATERAL
- ZONE NO. / VALVE SIZE — L 2"|47.6 — ZONE IDENTIFICATION / GPM
- (W) IRRIGATION WATER METER
- [F] FREEZE SENSOR
- [R] RAIN SENSOR

811 Know what's below. Call before you dig.

PLAN NORTH

10 0 5 10
SCALE: 1"=10'

IRRIGATION NOTES:

A. IRRIGATION CONTRACTOR SHALL TEST EXISTING RESIDUAL PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW 50 STATIC, CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
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S. SLEEVES FOR PIPING ARE TO BE TWO TIMES LARGER THAN THE PIPE BEING SLEEVED.

NOTE: CONTRACTOR TO DETERMINE GPM RATES, PIPE SIZES, SPECIFIC SPRAY HEAD & NOZZLE REQUIREMENTS AND VERIFY OVERALL SYSTEM DESIGN PRIOR TO SUBMISSION OF SHOP DRAWINGS.

1 / LI401 LANDSCAPE IRRIGATION PLAN ENLARGEMENT
SCALE: 1"=10'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS
SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
LANDSCAPE IRRIGATION PLAN ENLARGEMENT

DESIGNED BY	DJK
DRAWN BY	DJK
CHECKED BY	DS
APPROVED BY	MDG
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LI401
REV	0

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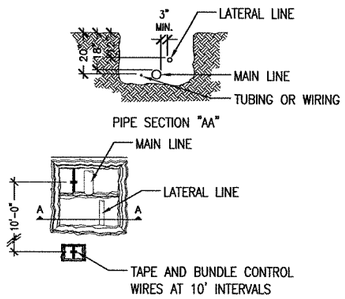
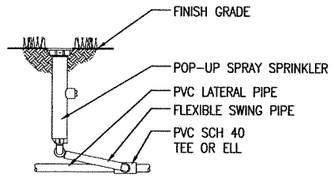


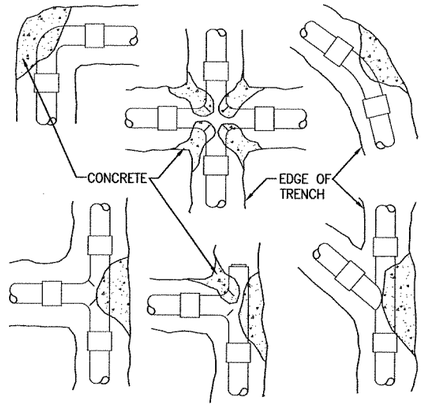
NOTE:
1. UNDER PAVED AREAS, ALL LINES AND WIRE SHALL BE SLEEVED WITH SCHEDULE 40 PVC PIPE & SHALL BE 24" IN DEPTH.

A LI501 PIPE PLAN
SCALE: N.T.S.



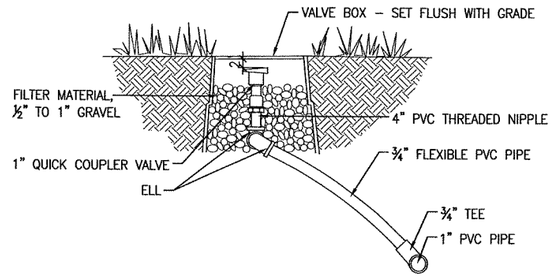
NOTE:
1. POP-UP SPRAY SPRINKLER – RAINBIRD 1806 WITH 1800 VPC WITH RAINBIRD ROTARY NOZZLE
2. SWING ASSEMBLY – RAINBIRD SPX-FLEX

B LI501 POP-UP SPRING HEAD DETAIL
SCALE: N.T.S.

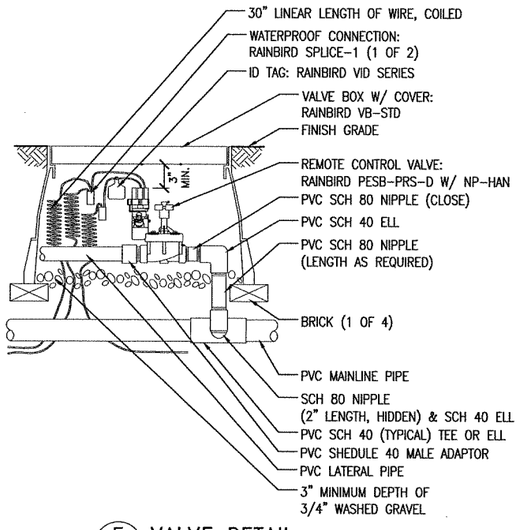


NOTE: PLACE ONE CUBIC FOOT OF CONCRETE FOR EACH THRUST BLOCK. PROVIDE THRUST BLOCKS FOR 3" DIAMETER PIPE.

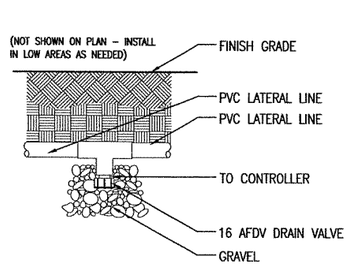
C LI501 THRUST BLOCK DETAIL
SCALE: N.T.S.



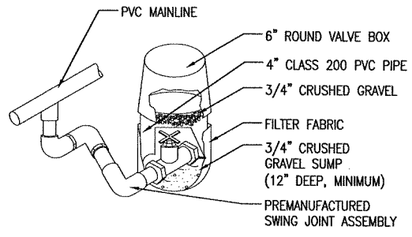
D LI501 QUICK COUPLER DETAIL
SCALE: N.T.S.



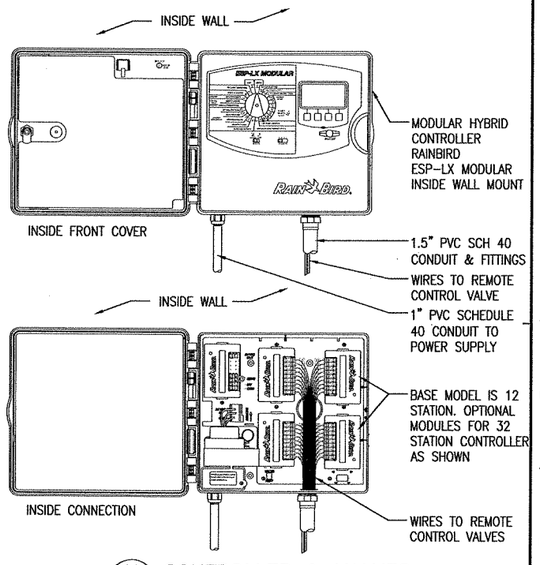
E LI501 VALVE DETAIL
SCALE: N.T.S.



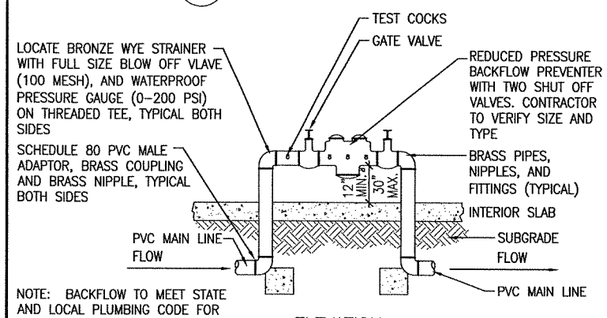
F LI501 AUTOMATIC DRAIN VALVE
SCALE: N.T.S.



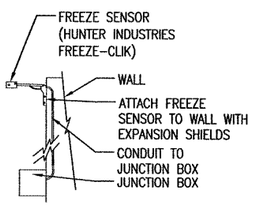
G LI501 MANUAL DRAIN VALVE
SCALE: N.T.S.



H LI501 CONTROLLER & VALVES
SCALE: N.T.S.

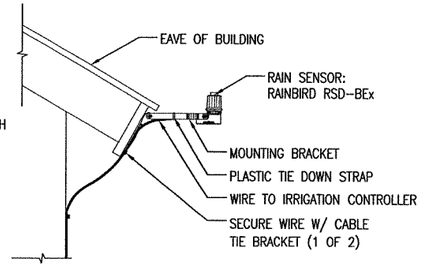


I LI501 REDUCED PRESSURE BACKFLOW PREVENTER
SCALE: N.T.S.

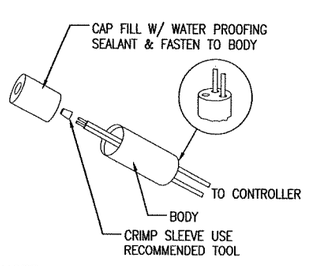


NOTE:
1. MOUNT FREEZE SENSOR ADJACENT TO RAIN SENSOR, (VERIFY LOCATION WITH OWNER)

J LI501 FREEZE SENSOR
SCALE: N.T.S.

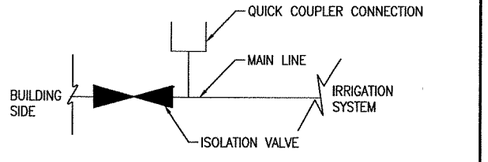


K LI501 RAIN SENSOR
SCALE: N.T.S.



NOTE:
1. USE RAINBIRD ST-03 GRAY/PT-55 OR EQUIVALENT

L LI501 WIRE CONNECTION
SCALE: N.T.S.



M LI501 AIR BLOW OUT VALVE
SCALE: N.T.S.

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JOSEPH S. ROGERS — REGISTERED ARCHITECT — No. 2365 — ARKANSAS — 8-15-11

REGISTERED ARCHITECT — SAIC Energy, Environment, & Infrastructure, LLC — No. C-255 — ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
LANDSCAPE IRRIGATION DETAILS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	LI501
REV	0
	44 OF 120

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WALL GRAPHIC LEGEND:

2x CONVENTIONALLY FRAMED WALL

BRICK VENEER

FLOOR PLAN NOTES:

1. FE1 = 20LB 20A-120B:C BRACKET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP20 W/ STANDARD BRACKET. MOUNT W/ HANDLE @ 3'-6" AFF.
2. FE2 = 10LB 4A-80B:C BRACKET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP10 W/ STANDARD BRACKET. MOUNT W/ HANDLE @ 3'-6" AFF.
3. FE3 = 10LB 4A-80B:C CABINET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP10 W/ SURFACE MOUNTED STAINLESS STEEL CABINET W/ GLASS DOOR. MOUNT W/ HANDLE @ 3'-6" AFF.
4. REFER TO STRUCTURAL FOR SHEAR WALL INFORMATION.

A FLOOR PLAN
A-101 SCALE: 3/16" = 1'-0"

NORTH

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FLOOR PLAN

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-101
REV	0

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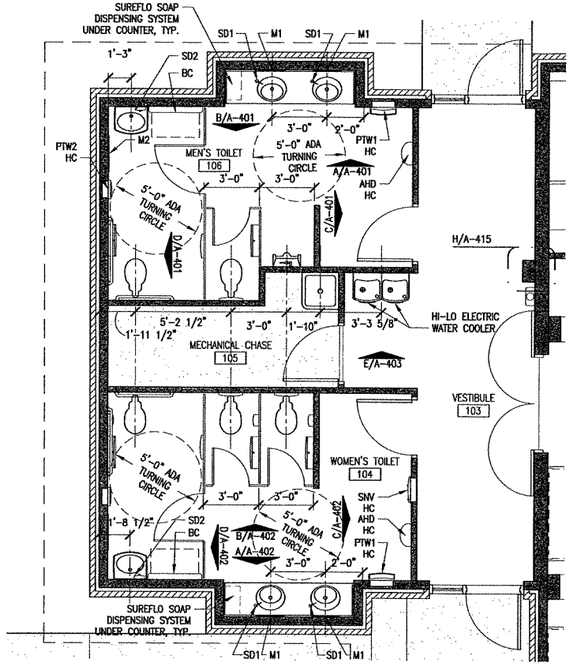
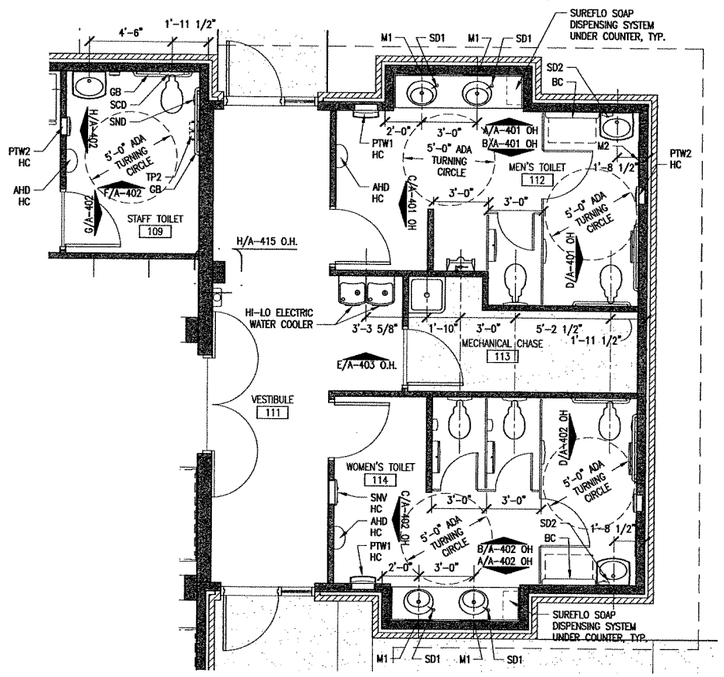


B A-102 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"



A A-102 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"

ENLARGED TOILET PLAN NOTES:

1. DIMENSIONS ON THIS SHEET ARE GIVEN TO FACE OF WALL FINISH MATERIALS, NOT FACE OF STUD (UNO). WALL FINISH MATERIALS ARE ASSUMED TO BE: 1/2" TILE BACKER BOARD + 5/16" THICK TILE = 13/16" TOTAL.
2. NO WALL OR CEILING FINISH IS TO BE APPLIED IN MECHANICAL CHASE 105 OR IN MECHANICAL CHASE 113.
3. AUTOMATIC WATER CLOSET FLUSH SENSORS ARE TO BE LOCATED ON WALL BEHIND WATER CLOSETS, CENTERED ON FIXTURES. WALL STUD LAYOUT MUST BE ADJUSTED ACCORDINGLY. COORDINATE FRAMING WITH APPROPRIATE MECHANICAL AND ELECTRICAL TRADES AS REQUIRED.
4. TOILET PARTITIONS ARE TO BE FLOOR MOUNTED, OVERHEAD BRACED, STAINLESS STEEL UNITS. PARTITIONS ARE ASSUMED TO BE 1" THICK FOR DIMENSIONING PURPOSES ON THIS SHEET. PROVIDE SOLID BLOCKING FOR ATTACHMENT OF TOILET PARTITIONS.
5. LIQUID HAND SOAP DISPENSERS (SD1's) ARE TO BE SUPPLIED BY A PUMPED SOAP SYSTEM W/ RESERVOIR TANKS LOCATED UNDER COUNTER.
6. PROVIDE SOLID BLOCKING WHERE REQUIRED FOR TOILET ACCESSORIES AND GRAB BARS.
7. PARTITION DOOR INTO HC STALL TO HAVE SWING LIMITER TO PROTECT BABY CHANGING STATION FROM CONTACT DAMAGE FROM DOOR.

TOILET ACCESSORY SCHEDULE

MARK	ITEM	MFGR	MODEL NUMBER	MOUNTING HEIGHT
TP1	TOILET PAPER HOLDER (PUBLIC RESTROOMS)	BOBRICK	B-2892	31" AFF TO TOP OF UNIT (ACCESSIBLE STALLS AND FAMILY TOILET ROOM) 40" AFF TO TOP OF UNIT (ALL OTHER INSTALLATIONS)
TP2	TOILET PAPER HOLDER (STAFF TOILET ROOM)	BOBRICK	B-2740	19-3/4" AFF TO TOP OF UNIT
PTW1	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-43944	72" AFF TO TOP OF RECESSED PORTION OF UNIT (STANDARD HEIGHT INSTALLATION)
PTW1 HC	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-43944	60-1/4" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
PTW2 HC	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-4369	51-3/4" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
AHD	AUTOMATIC HAND DRYER	BOBRICK	B-748	45-1/4" AFF TO ℄ BOTTOM MOUNTING SCREW (MEN'S) 43-1/4" AFF TO ℄ BOTTOM MOUNTING SCREW (WOMEN'S)
AHD HC	AUTOMATIC HAND DRYER	BOBRICK	B-748	37-1/4" AFF TO ℄ BOTTOM MOUNTING SCREW (ACCESSIBLE INSTALLATION)
SNV HC	FEMININE PRODUCTS VENDOR	BOBRICK	B-43500	51" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
SND	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	27" AFF TO TOP OF UNIT
SCD	SEAT COVER DISPENSER	BOBRICK	B-4221	36" AFF TO TOP OF UNIT (IN ACCESSIBLE STALLS, FAMILY TOILET ROOM AND STAFF TOILET) BOTTOM OF UNIT 6" MIN. ABOVE WC (ALL OTHER LOCATIONS)
SD1	COUNTERTOP LIQUID SOAP DISPENSER	BOBRICK	B-830.12 W/ SURE-FLO PUMP SYSTEM	COUNTERTOP MOUNTED PUMPS CONNECTED TO SURE-FLO PUMP SYSTEM W/ SOAP RESERVOIR MOUNTED UNDER COUNTER. TO INCLUDE ALL PUMPS, TUBING & NECESSARY ATTACHMENTS.
SD2 HC	LIQUID SOAP DISPENSER	BOBRICK	B-4112	50-7/8" AFF TO TOP OF UNIT
GB	GRAB BARS	BOBRICK	B-6806.99x36 B-6806.99x42	34" AFF TO CENTER LINE
M1	MIRROR	BOBRICK	B-2909 18x36	40" AFF TO BOTTOM OF REFLECTING SURFACE; LAMINATED (LEAD TIME: 33 WORKING DAYS)
M2	MIRROR	BOBRICK	B-2909 24x36	40" AFF TO BOTTOM OF REFLECTING SURFACE; LAMINATED (LEAD TIME: 33 WORKING DAYS)
BC	BABY CHANGING STATION	KOALA BEAR CARE	KB110-SSWM	48" AFF TO TOP OF UNIT

TOILET ACCESSORY NOTES:
1. INDICATED TOILET ACCESSORIES ARE BASIS OF DESIGN.
2. RECOMMENDED MOUNTING HEIGHTS INDICATED ARE PROVIDED AS GUIDELINES. FOLLOW MANUFACTURER'S PRINTED INSTRUCTIONS FOR ALL ACCESSIBLE INSTALLATIONS.

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JOSEPH S. ROGERS REGISTERED ARCHITECT NO. 2365 ARKANSAS
SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ENLARGED TOILET PLANS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-102
REV	0

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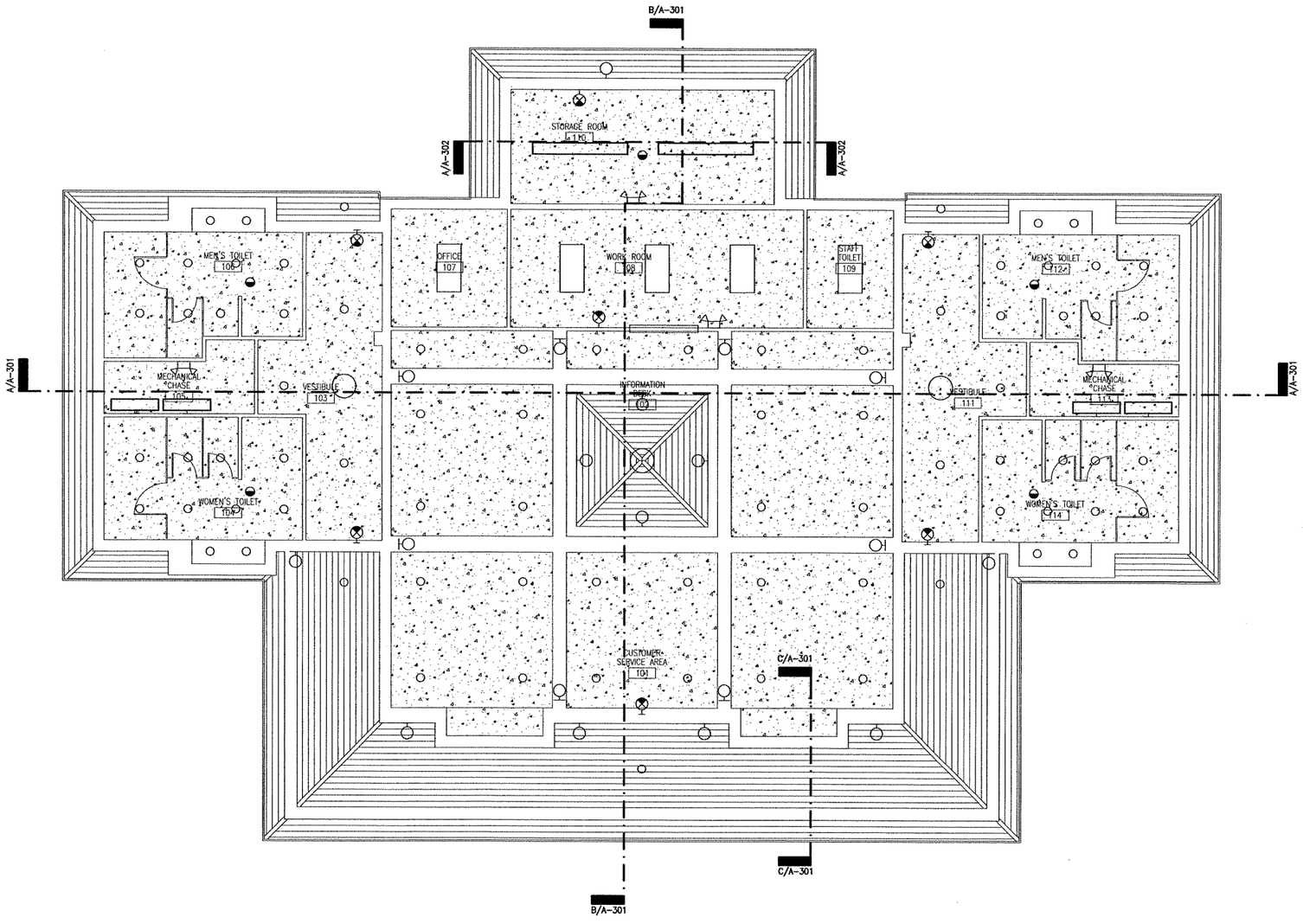

A A-103 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

NORTH

LEGEND

- TONGUE AND GROOVE WOOD CEILING/SOFFIT
- GYPSUM BOARD CEILING
- CEILING MOUNTED
- FLUORESCENT FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE
- PENDANT OR SEMI-FLUSH FIXTURE
- RECESSED COMPACT FLUORESCENT FIXTURE
- WALL MOUNTED FIXTURE
- EXIT SIGN
- EMERGENCY FIXTURE
- SMOKE DETECTOR

NOTE:
1. REFER TO ELECTRICAL SHEETS E-001 FOR LIGHTING LEGEND AND E-601 FOR LIGHTING SCHEDULE.

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8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

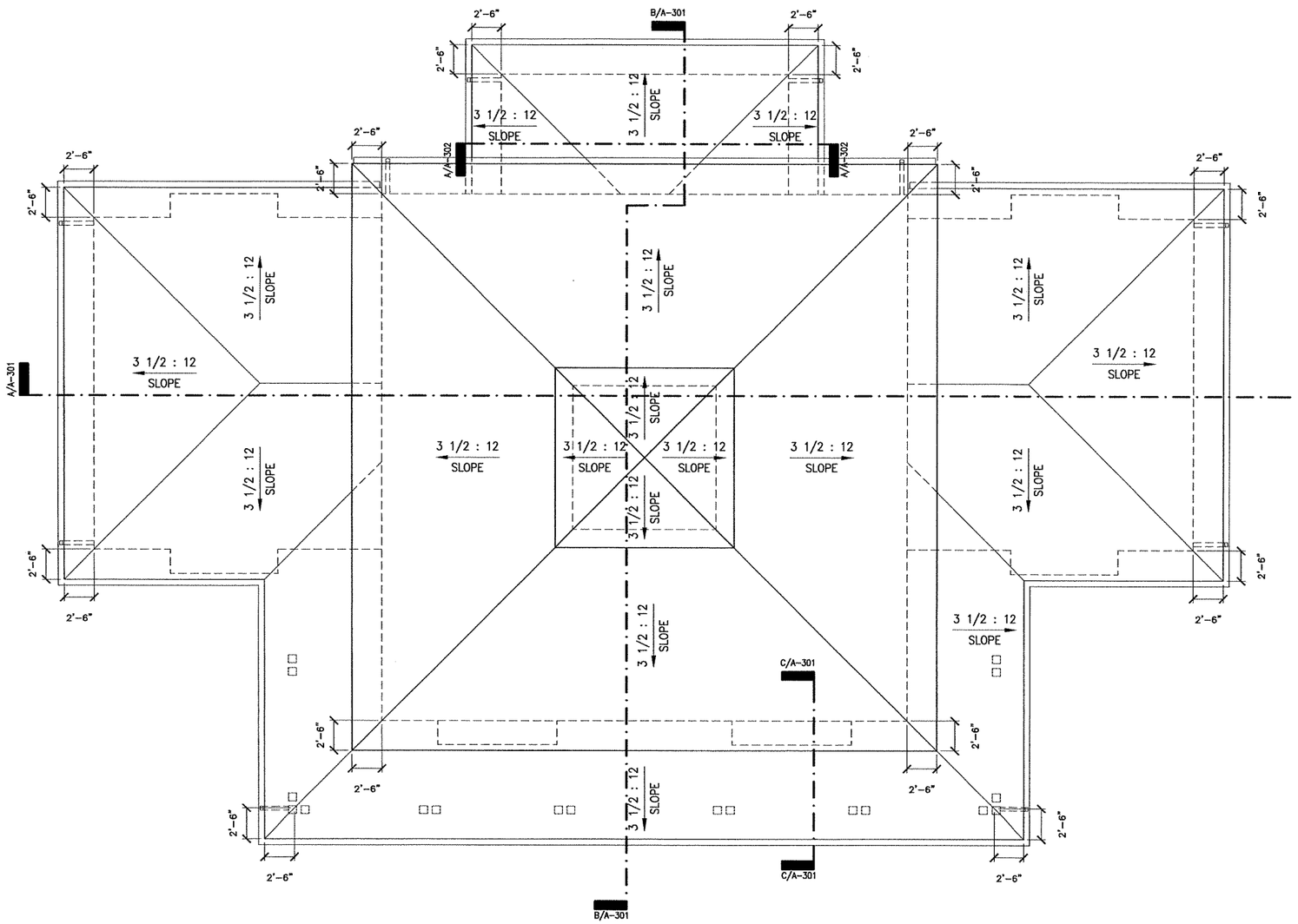
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

REFLECTED CEILING PLAN

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-103
REV	0
	47 OF 120



A A-104 ROOF PLAN
SCALE: 3/16" = 1'-0"

NORTH

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SAIC Energy, Environment & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ROOF PLAN

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-104
REV	0

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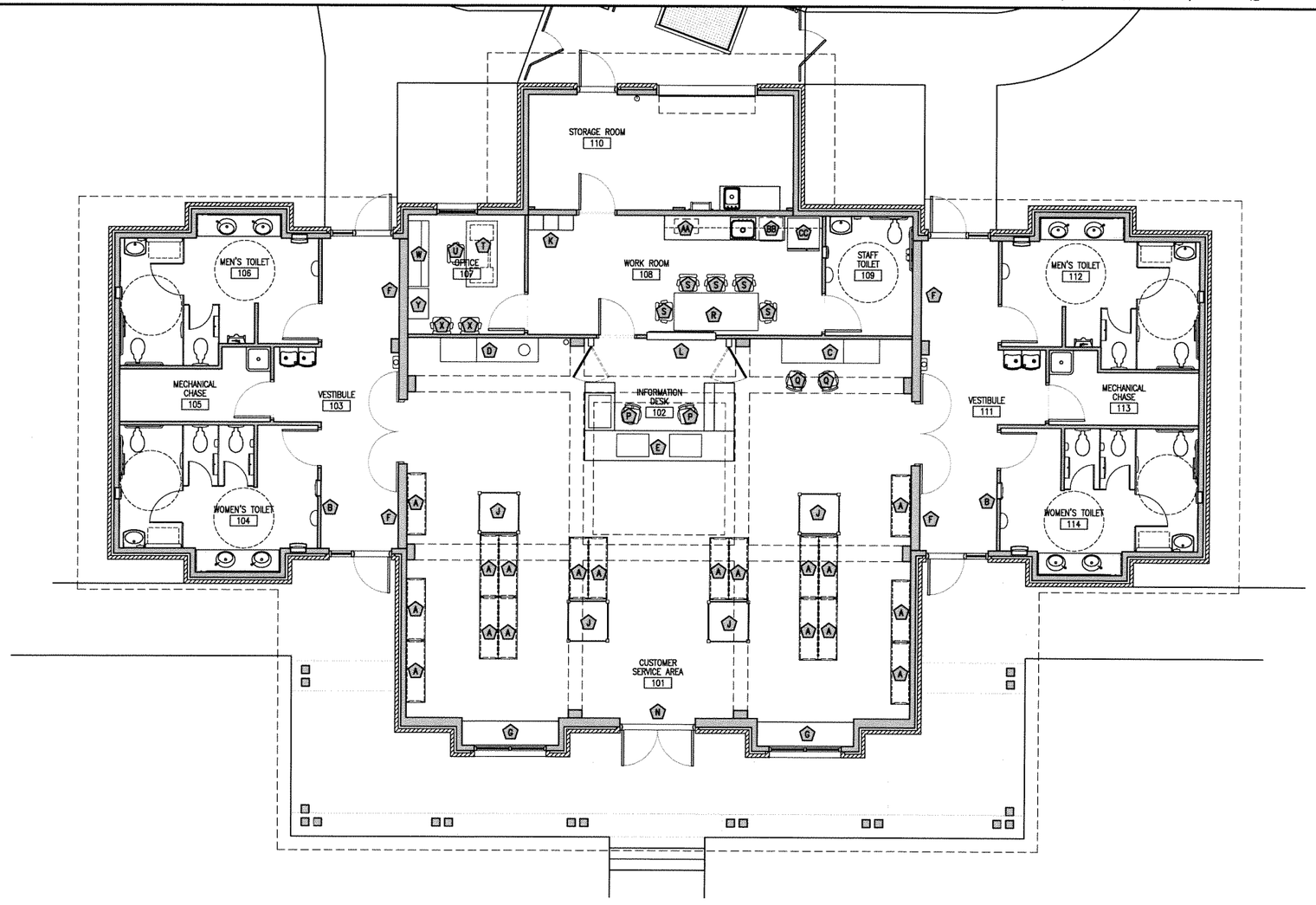

A FLOOR PLAN
A-105 SCALE: 3/16"= 1'-0"

NORTH

KITCHEN APPLIANCES:

AA COUNTERTOP MICROWAVE (NIC)
PROVIDE CIRCUITING AS REQ'D

BB UNDERCOUNTER DISHWASHER
KENMORE 24" DISHWASHER
SEARS ITEM # 02215252000
MFGR. MODEL # 15252
PROVIDE SINK-MOUNTED AIR GAP
COLOR: WHITE

CC REFRIGERATOR
KENMORE 25.4 CU FT SIDE-BY-SIDE
ENERGY STAR RATED
THRU DOOR ICE AND WATER
SEARS ITEM # 04657402000
MFGR. MODEL # 57402
COLOR: WHITE

FURNITURE PLAN NOTES:

1. GENERAL CONTRACTOR SHALL ASSEMBLE ALL FURNITURE REQUIRING ASSEMBLY FOR USE.
2. GENERAL CONTRACTOR SHALL DELIVER ALL SPARE PARTS, INSTRUCTION BOOKLETS, WARRANTY INFORMATION AND SUPPLIED ASSEMBLY TOOLS TO THE OWNER.
3. GENERAL CONTRACTOR SHALL REMOVE ALL PACKING MATERIALS FROM FURNITURE AND REMOVE FROM SITE.
4. GENERAL CONTRACTOR SHALL PROTECT ALL FURNITURE FROM DAMAGE AND DELIVER SAME IN "NEW AND UNUSED" CONDITION TO OWNER.
5. GENERAL CONTRACTOR SHALL SUBMIT PROPOSED KITCHEN APPLIANCES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
6. KITCHEN APPLIANCES SHALL BE UNPACKED, INSTALLED AND CONNECTED SO AS TO BE IN A READY-TO-USE CONDITION. GENERAL CONTRACTOR SHALL PROTECT KITCHEN APPLIANCES FROM DAMAGE AND DELIVER SAME IN "NEW AND UNUSED" CONDITION TO THE OWNER.
7. INTERIOR ROOM SIGNAGE TO BE PURCHASED AND INSTALLED BY CONTRACTOR TO MEET ADA REQUIREMENTS. "OPEN/CLOSED" SIGNS TO BE INSTALLED ON FACE OF RESTROOM DOORS.
8. ITEMS TO BE SELECTED BY OWNER TO BE COVERED BY ALLOWANCE, REF: SPECIFICATIONS

FURNISHINGS AND MILLWORK LEGEND:

A BROCHURE RACK – REF: SHEET A-408

B WALL MOUNTED BROCHURE RACK – REF: SHEET A-411

C DATA COUNTER AND INFORMATION COMPUTER KIOSK – REF: SHEETS A-406 AND A-407

D COFFEE BAR CABINET AND INFORMATION COMPUTER KIOSK– REF: SHEETS A-404 AND A-405

E RECEPTION COUNTER – REF: SHEET A-4XX

F ALLEN DISPLAY ENCLOSED BULLETIN BOARD, MODEL: PW13624K, OAK (QUANTITY – 4)

G BUILT-IN UPHOLSTERED BENCH – REF: SHEET A-409

H NOT USED

J MUSEUM DISPLAY CABINET – REF: SHEET A-412

K LOCKERS – PENCO 15"x60" SINGLE TIER VANGUARD LOCKERS – BANK OF 3 – COLOR: 073 CHAMPAGNE

L PHOTO DISPLAY – REF: SHEET A-410

M NOT USED

N WALL CLOCK – MOUNT CENTERED ABOVE DOOR W/ ℄ @ 10'-4" AFF HOWARD MILLER BRYCE, ITEM #620-468, ø25"; FINISH: OAK

P EMPLOYEE STOOL – TO BE SELECTED BY OWNER (QUANTITY – 2)

Q COMPUTER DESK STOOL – TO BE SELECTED BY OWNER (QUANTITY – 2)

R CONFERENCE TABLE – TO BE SELECTED BY OWNER (QUANTITY – 1)

S CONFERENCE TABLE CHAIRS – TO BE SELECTED BY OWNER (QUANTITY – 5)

T OFFICE DESK – TO BE SELECTED BY OWNER (QUANTITY – 1)

U DESK CHAIR – TO BE SELECTED BY OWNER (QUANTITY 1)

V COMPUTER CREDENZA – TO BE SELECTED BY OWNER (QUANTITY – 1)

W CREDENZA HUTCH – TO BE SELECTED BY OWNER (QUANTITY – 1)

X GUEST CHAIR – TO BE SELECTED BY OWNER (QUANTITY – 2)

Y LATERAL FILE – TO BE SELECTED BY OWNER (QUANTITY – 1)

Z INTERIOR SIGNAGE – COORDINATE WITH AMERICAN BUILDING SPECIALTIES – DANA GUESS (501) 791-2024

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REGISTERED ARCHITECT SAIC Energy, Environment & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FURNITURE PLAN

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-105
REV	0
49 OF 120	

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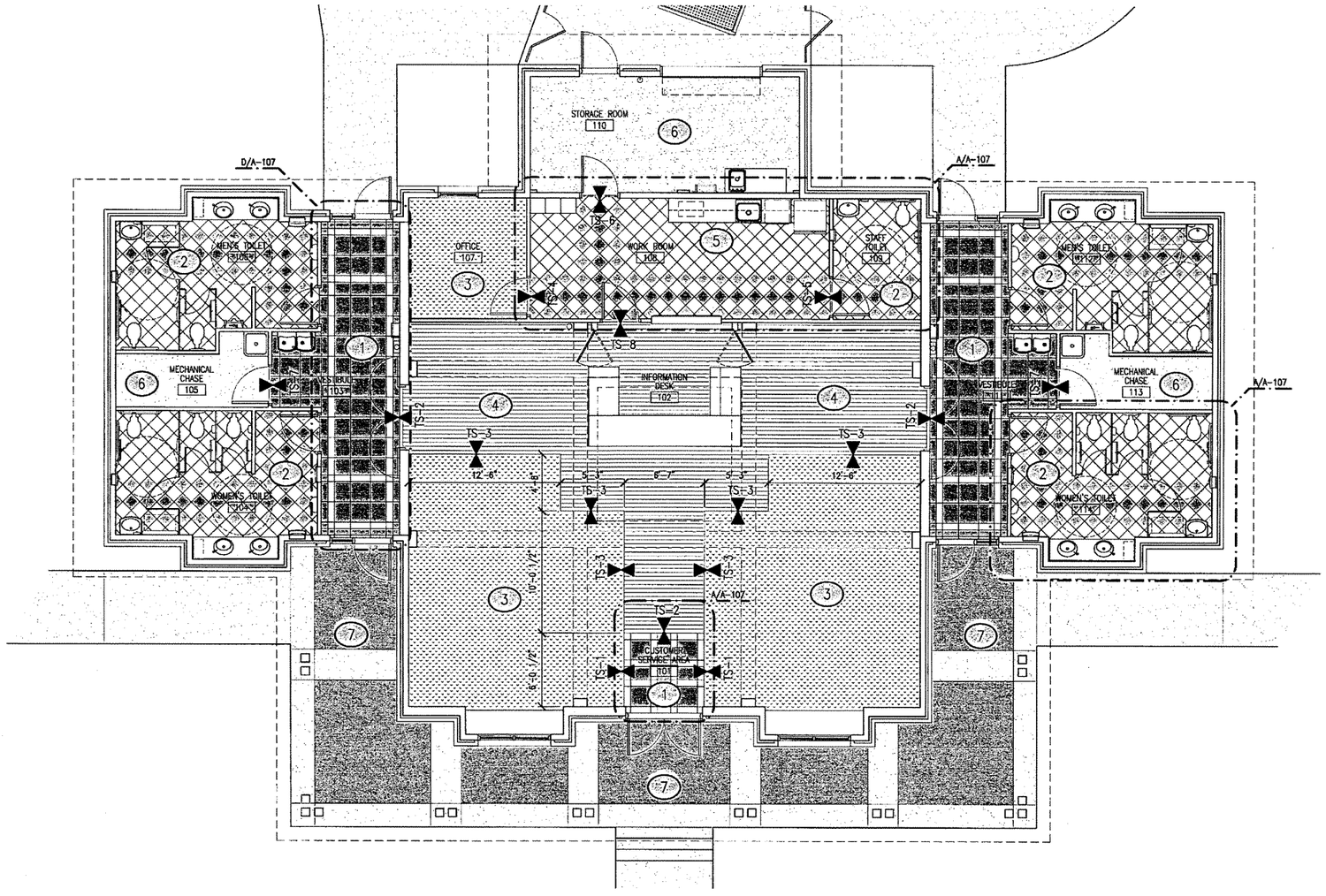


A A-106 FLOORING PLAN
SCALE: 3/16" = 1'-0"

NORTH

FLOORING PLAN NOTES:

1. FLOORING LAYOUT MUST BE APPROVED IN THE FIELD BY THE ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION OF FLOORING MATERIALS.
2. NO THRESHOLDS AT TILE TO TILE DOORWAY TRANSITIONS. FINISHED SURFACE OF ADJACENT TILES TO BE FLUSH.
3. GROUT LINES IN WALL TILE (REFER TO SHEET A-404/A-405 FOR WALL TILE PATTERNS) MUST ALIGN WITH GROUT LINES IN FLOOR TILE.
4. FLOOR TILE SHALL BE INSTALLED PRIOR TO INSTALLATION OF ALL WOOD BASE.
5. COFFEE BAR CABINET AND COMPUTER DESK ARE TO BE CONSIDERED FURNITURE ALTHOUGH THEY ARE TO BE SECURELY ATTACHED TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND.
6. FOOT BOLTS AT DOORS 115A AND 115B SHALL BE EQUIPPED WITH METALLIC RECEIVERS PROPERLY INSTALLED IN TILE FLOORING.
7. CARPET SEAMING SHALL OCCUR UNDER BROCHURE RACKS TO THE GREATEST EXTENT POSSIBLE. SEAMING DIAGRAM SHALL BE APPROVED BY INTERIOR DESIGNER.
8. CARPET SHALL BE GRADUALLY RAMPED UP USING JOHNSONITE SUBFLOOR LEVELER SYSTEM SO THAT THE FINISHED HEIGHT OF THE SURFACE OF THE CARPET SHALL BE EQUAL TO THE FINISHED HEIGHT OF THE ADJACENT FLOORING.

OTHER FLOOR FINISH MATERIALS:

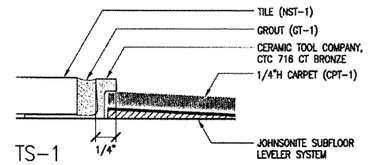
GROUT:
GT-1 FOR PFT-1/PFT-2
GT-2 FOR PFT-3/PFT-4/PFT-5
REFER TO FINISH LEGEND (SHEET A-504)

TRANSITION STRIPS:
REFER TO FINISH LEGEND (SHEET A-504) AND DETAILS (B/A-105)

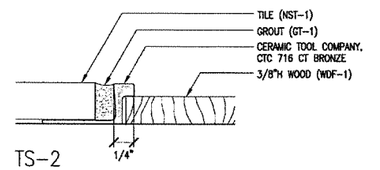
FLOOR FINISH MATERIALS LEGEND:

1 = PFT-1, PFT-2
2 = PFT-3, PFT-4, PFT-5
3 = CPT-1
4 = HWF-1
5 = VCT-1, VCT-2, VCT-3
6 = CONC-3
7 = CONC-1, CONC-2

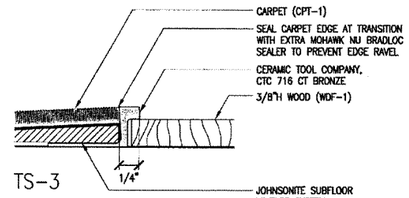
REFER TO FINISH LEGEND (SHEET A-504)



TS-1



TS-2



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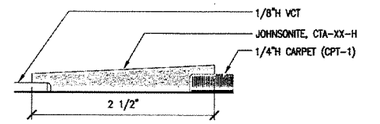

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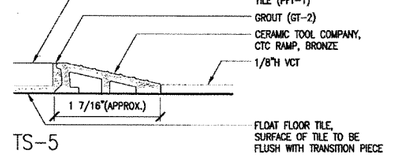

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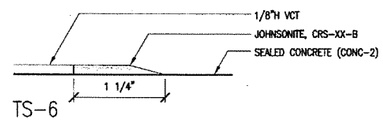

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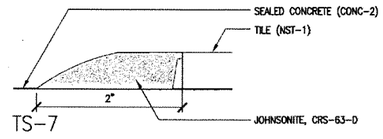
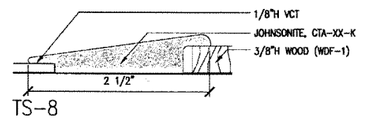


TS-7



TS-8

B A-106 FLOOR TRANSITIONS
SCALE: 1" = 1'-0"

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JOSEPH S. REGGIS REGISTERED ARCHITECT No. 2385 ARKANSAS 11.9.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FLOORING PLAN

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-106
REV	0

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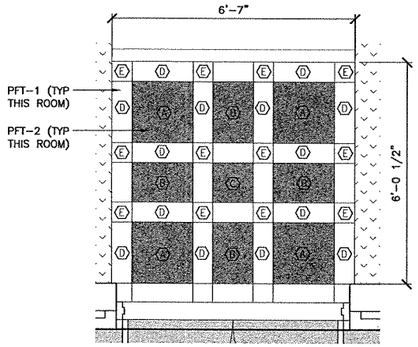
SPECIAL TILE SIZES

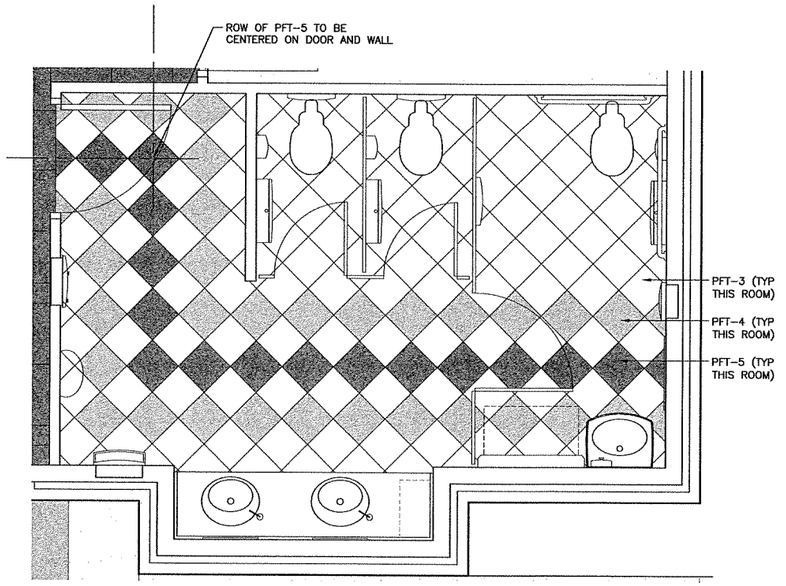
DALTILE VERANDA PORCELAIN TILE

- (A) 20" X 20"
- (B) 13" X 20"
- (C) 13" X 13"
- (D) 6-1/2" X 20"
- (E) 6-1/2" X 6-1/2"

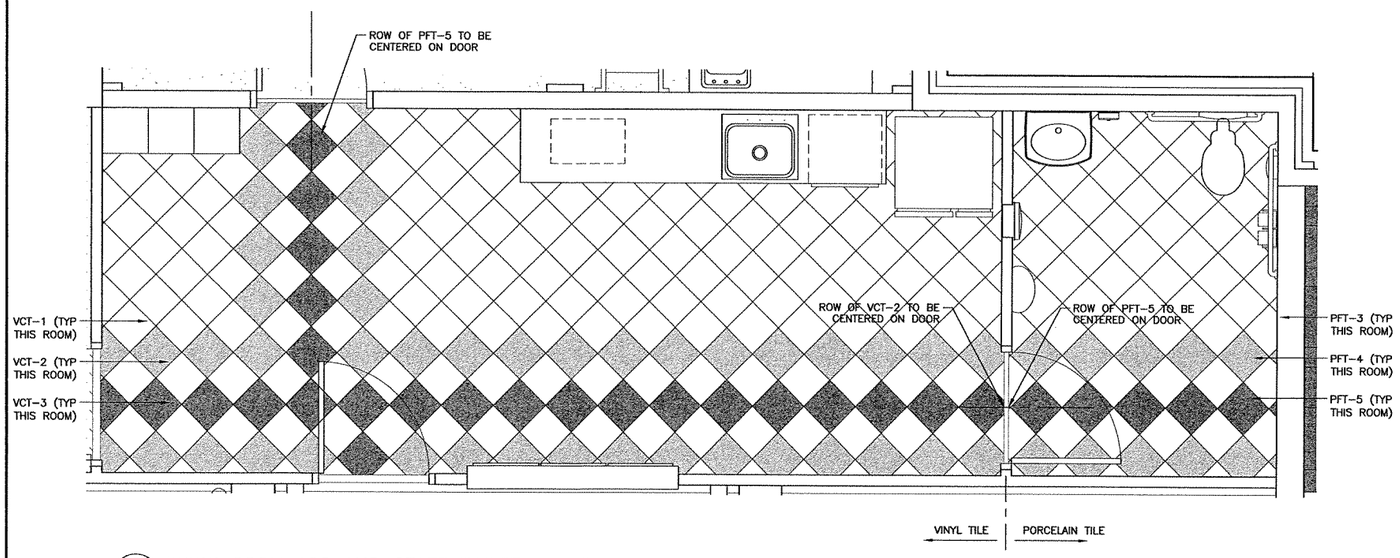
NOTE: ALL TILES THAT ARE NOTED SHOULD BE UNCUT, ALL TILES THAT ARE NOT NOTED CAN BE CUT FROM AN APPROPRIATE SIZE



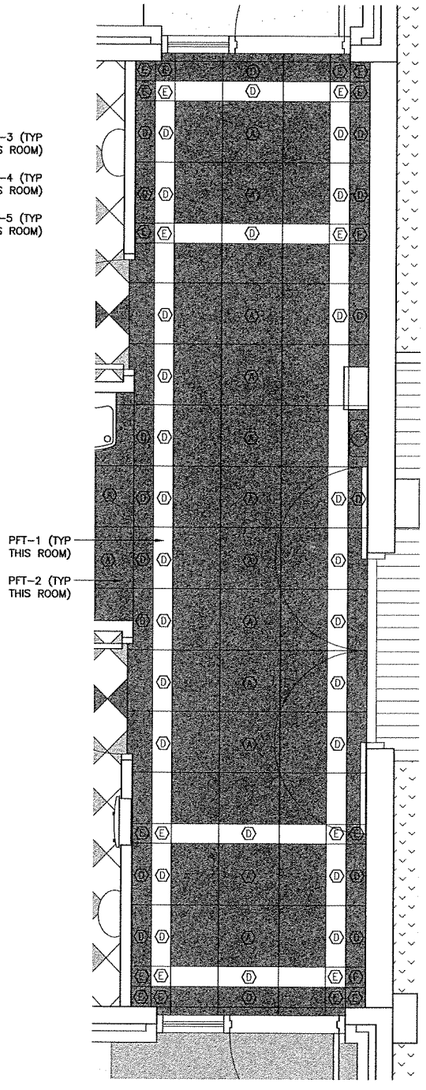
A A-107 ENTRY FLOORING DETAIL
SCALE: 1/2" = 1'-0"



B A-107 WOMEN'S TOILET 114 FLOORING DETAIL
SCALE: 1/2" = 1'-0"



C A-107 WORK ROOM 108 AND STAFF TOILET 109 FLOORING DETAIL
SCALE: 1/2" = 1'-0"



D A-107 VESTIBULE 103 FLOORING DETAIL
SCALE: 1/2" = 1'-0"

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FLOORING PLAN DETAILS

DESIGNED BY	TBC
DRAWN BY	X
CHECKED BY	TBC
APPROVED BY	TBC

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-107
REV	0
	51 OF 120

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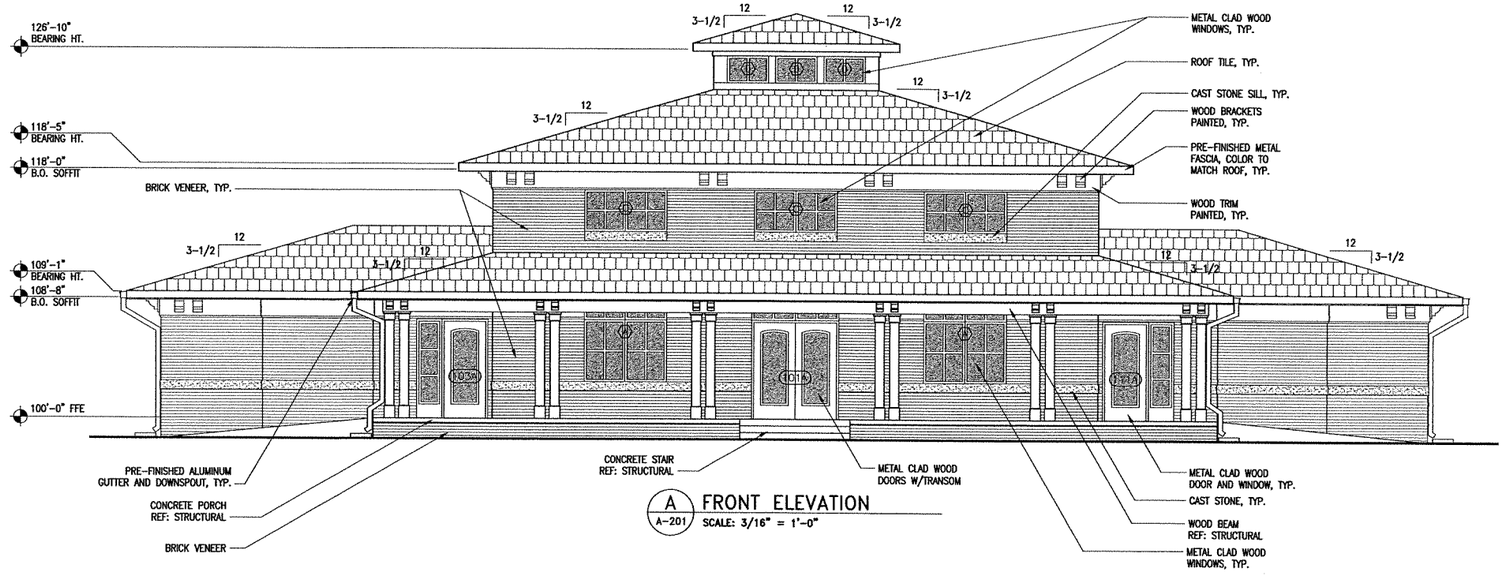
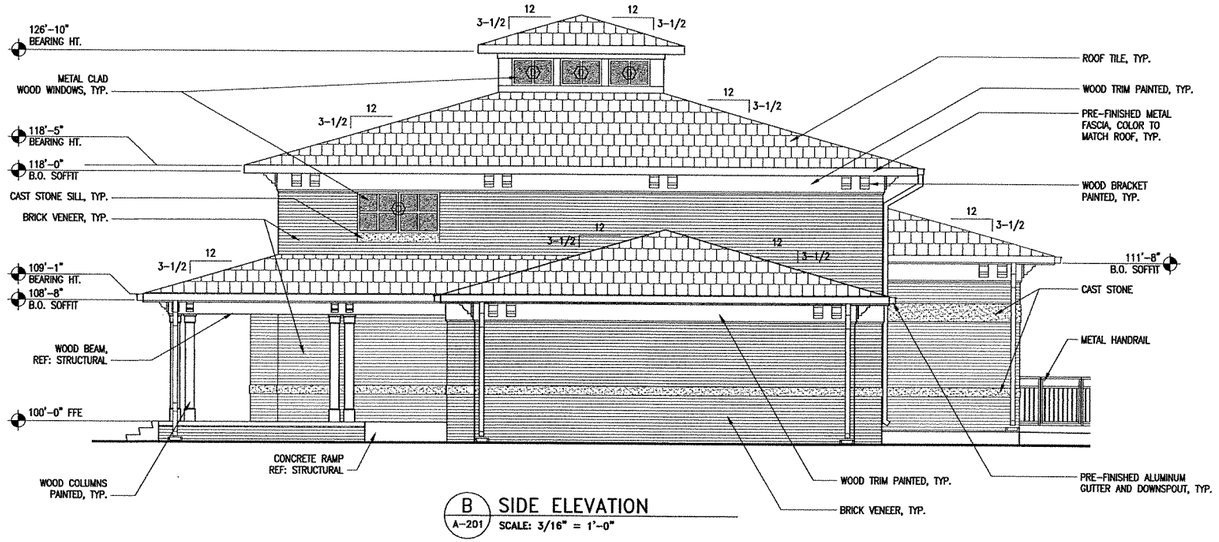


A / A-201 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



B / A-201 SIDE ELEVATION
SCALE: 3/16" = 1'-0"

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8-15-11

REGISTERED ARCHITECT
SAIC Energy, Environment & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

EXTERIOR ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-201
REV	0

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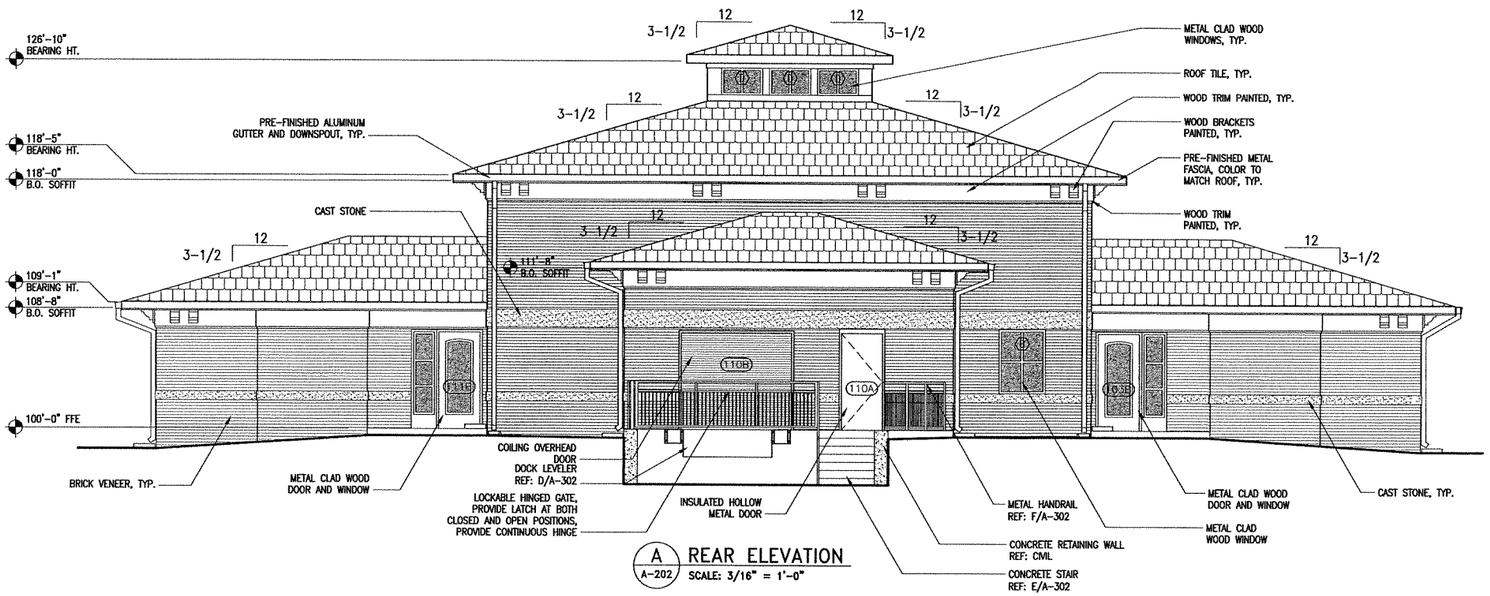
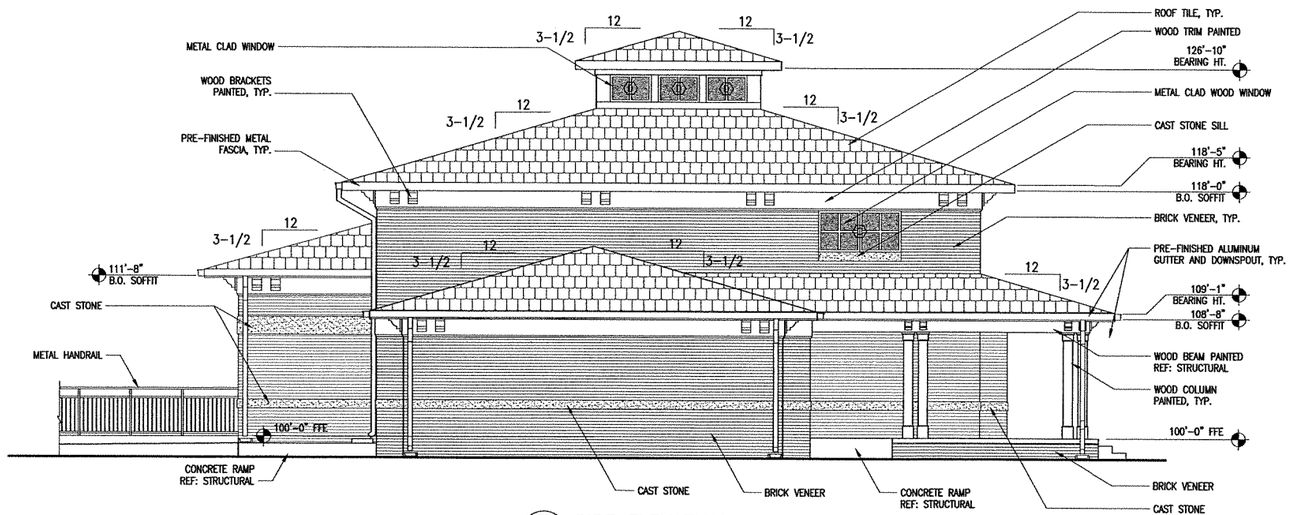


A A-202 REAR ELEVATION
SCALE: 3/16" = 1'-0"



B A-202 SIDE ELEVATION
SCALE: 3/16" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

EXTERIOR ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-202
REV	0
	53 OF 120

Filename: P:\LOW\FAC\6351016000_ohtdwesthelena\20_DESIGN\40_CAD\0160_A-202.dwg Saved: 8/12/2011 3:46:07 PM By: BREDEHOEFTMS
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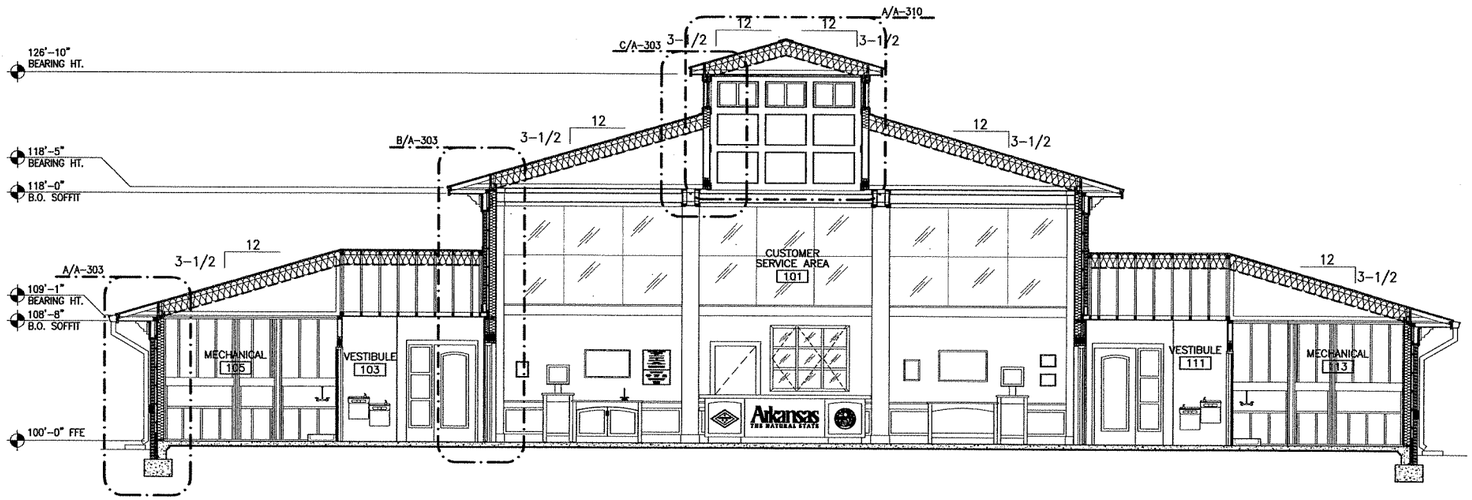
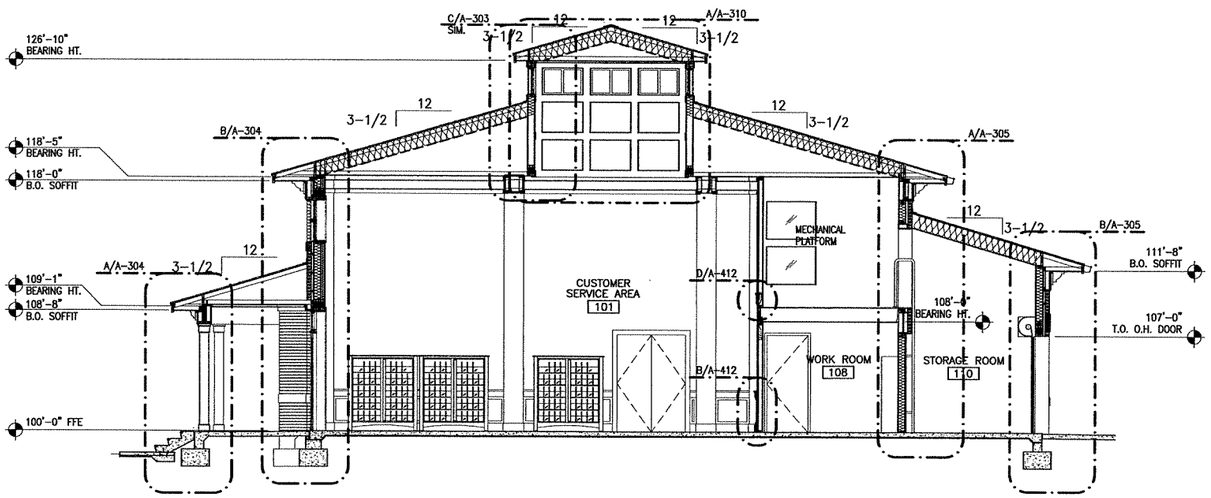
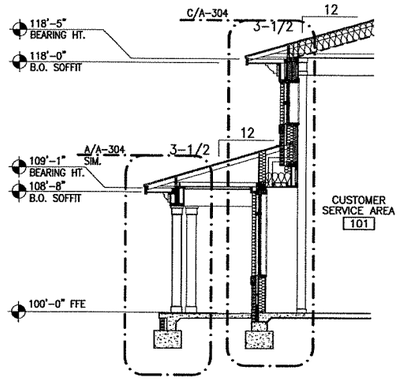


A A-301 BUILDING SECTION
SCALE: 3/16" = 1'



B A-301 BUILDING SECTION
SCALE: 3/16" = 1'



C A-301 BUILDING SECTION
SCALE: 3/16" = 1'

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
NO. 2365
ARKANSAS
8-15-11

SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
REGISTERED ARCHITECT
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

BUILDING SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-301
REV	0

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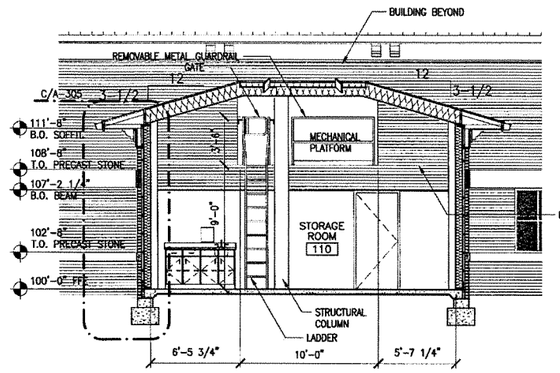
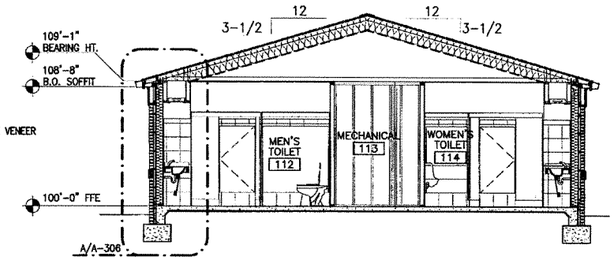
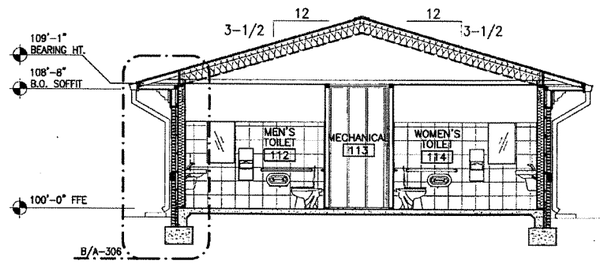


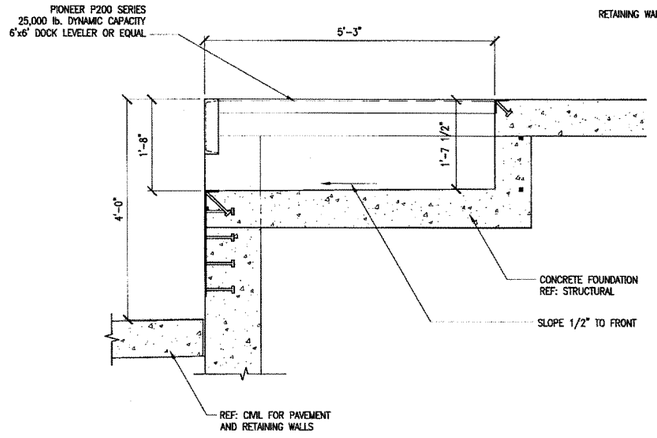
A A-302 SECTION THRU STORAGE ROOM
SCALE: 3/16" = 1'



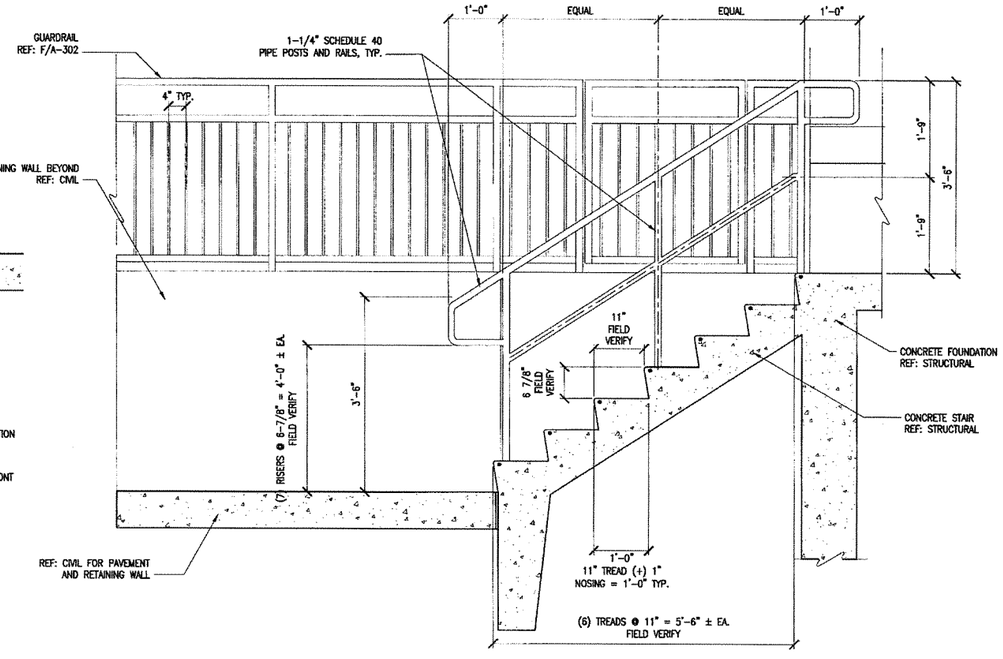
B A-302 SECTION THRU TOILETS
SCALE: 3/16" = 1'



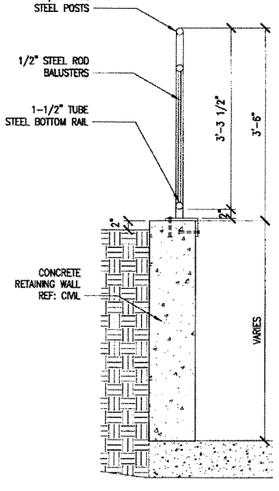
C A-302 SECTION THRU TOILETS
SCALE: 3/16" = 1'



D A-302 SECTION THRU DOCK LEVELER
SCALE: 3/4" = 1'



E A-302 SECTION THRU DOCK STAIR
SCALE: 3/4" = 1'



F A-302 DOCK GUARDRAIL SECTION
SCALE: 3/4" = 1'

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

BUILDING SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-302
REV	0

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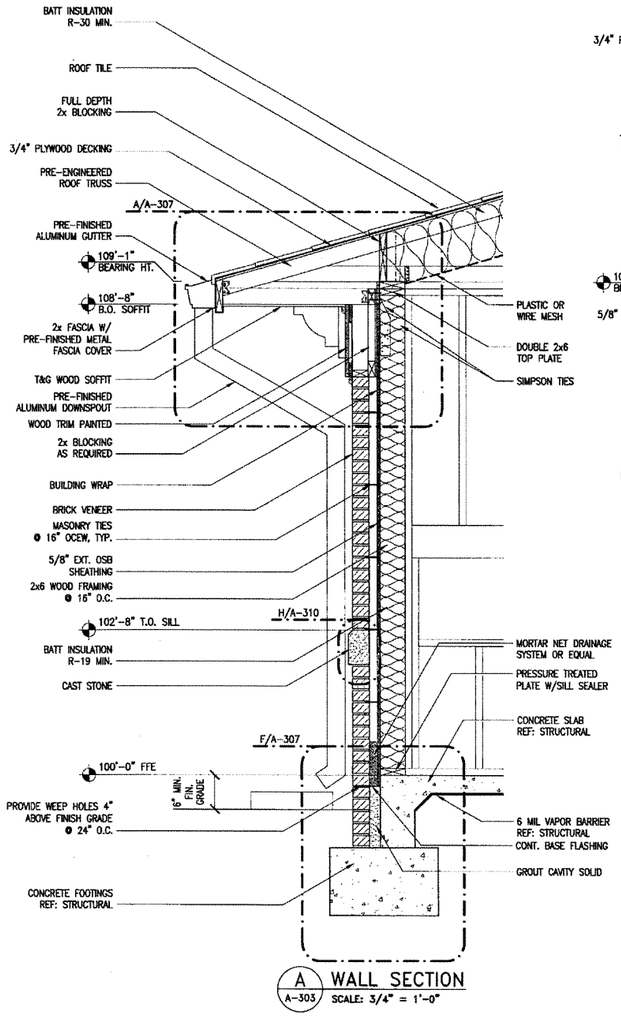
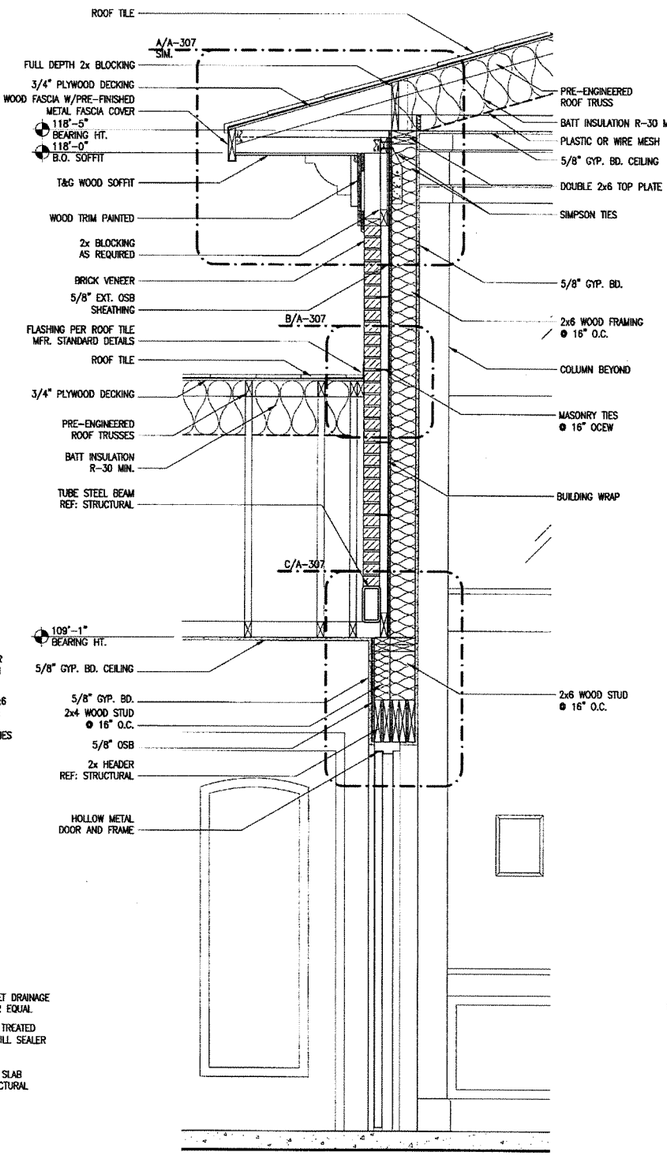
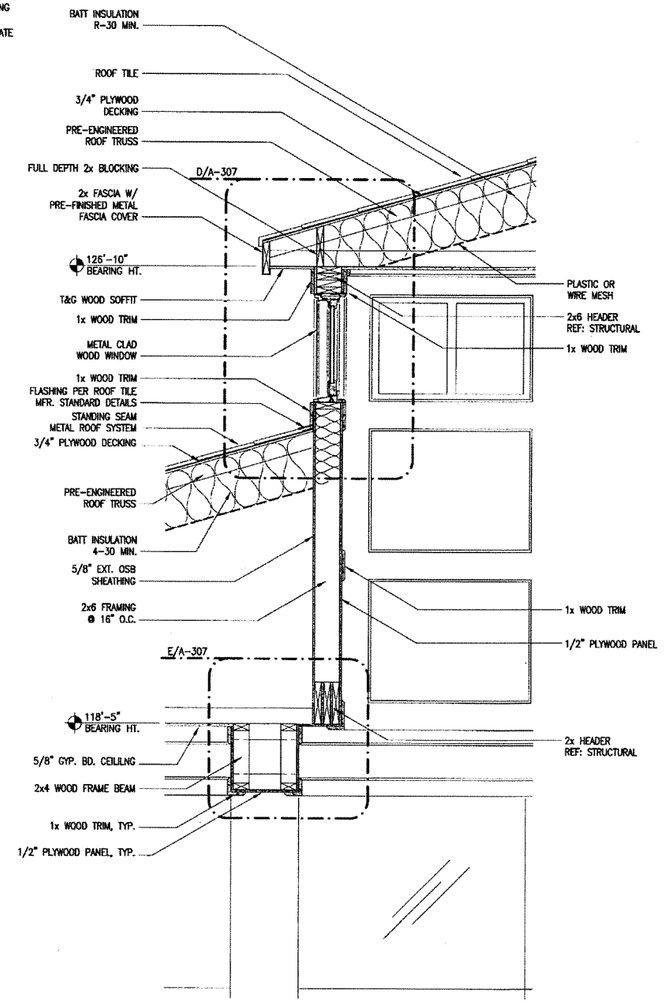


A WALL SECTION
A-303 SCALE: 3/4" = 1'-0"



B WALL SECTION
A-303 SCALE: 3/4" = 1'-0"



C WALL SECTION
A-303 SCALE: 3/4" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 11.29.11

SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

WALL SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-303
REV	0
	56 OF 120

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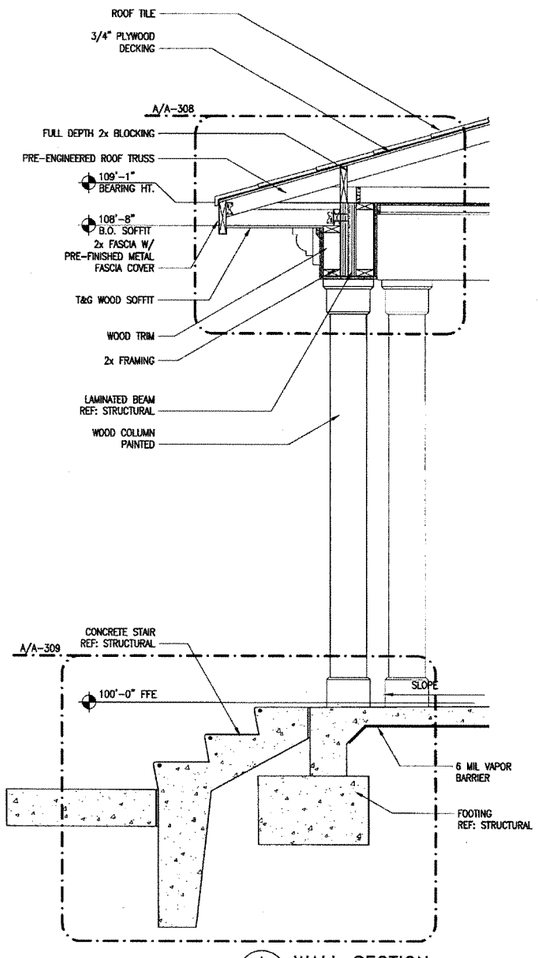
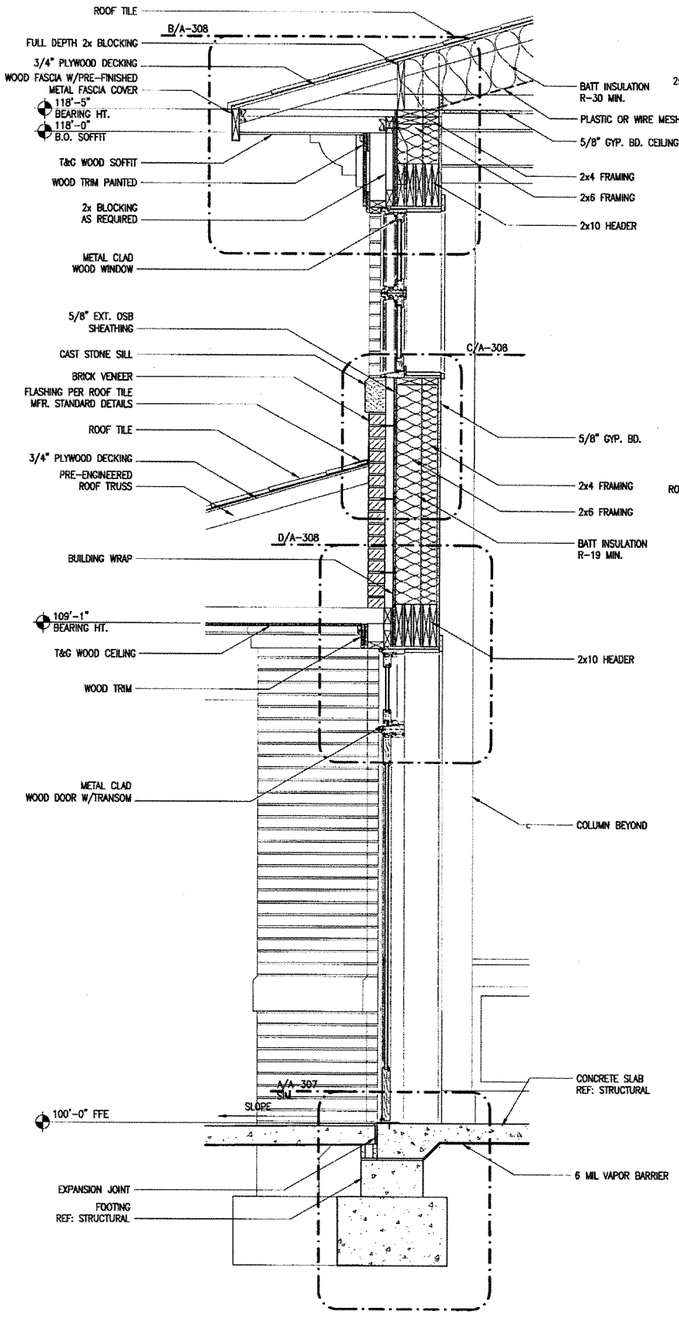
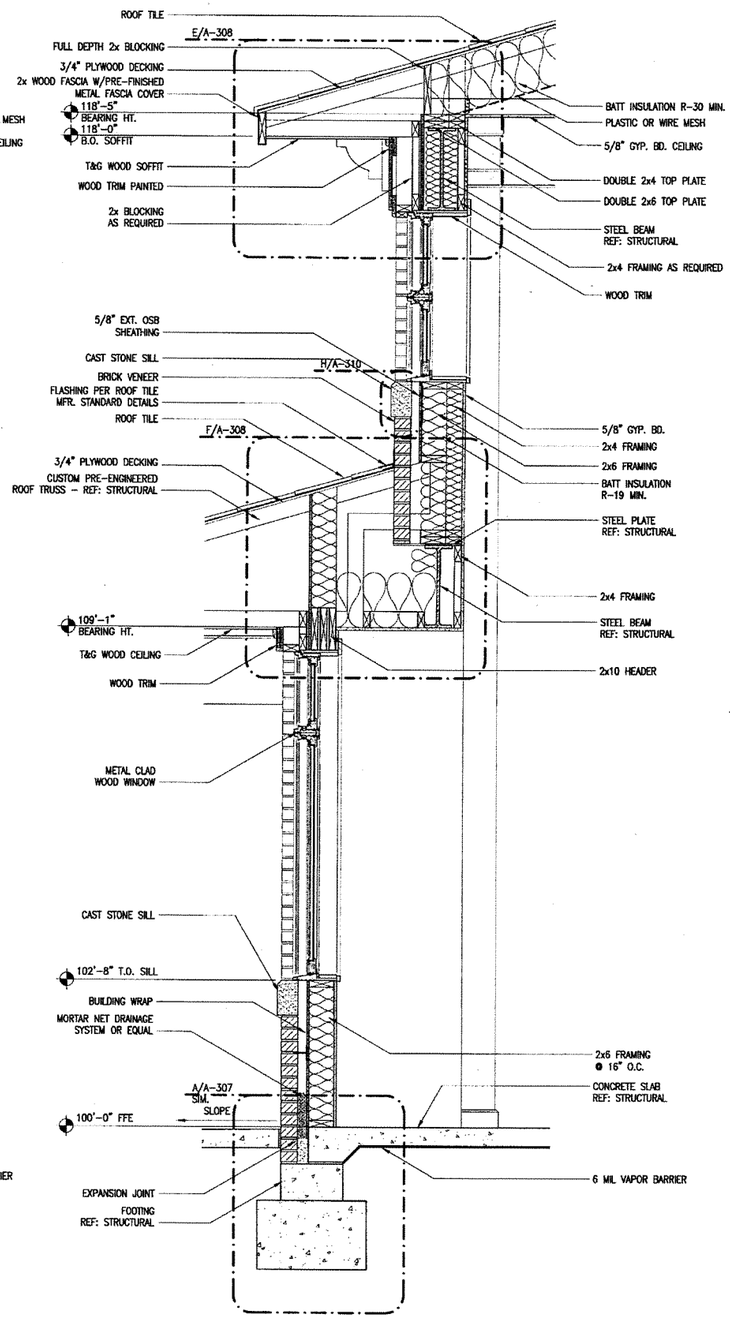


A WALL SECTION
A-304 SCALE: 3/4" = 1'-0"



B WALL SECTION
A-304 SCALE: 3/4" = 1'-0"



C WALL SECTION
A-304 SCALE: 3/4" = 1'-0"

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JOSEPH S. MOORE REGISTERED ARCHITECT No. 2385 ARKANSAS 11-09-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

WALL SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-304
REV	0
	57 OF 120

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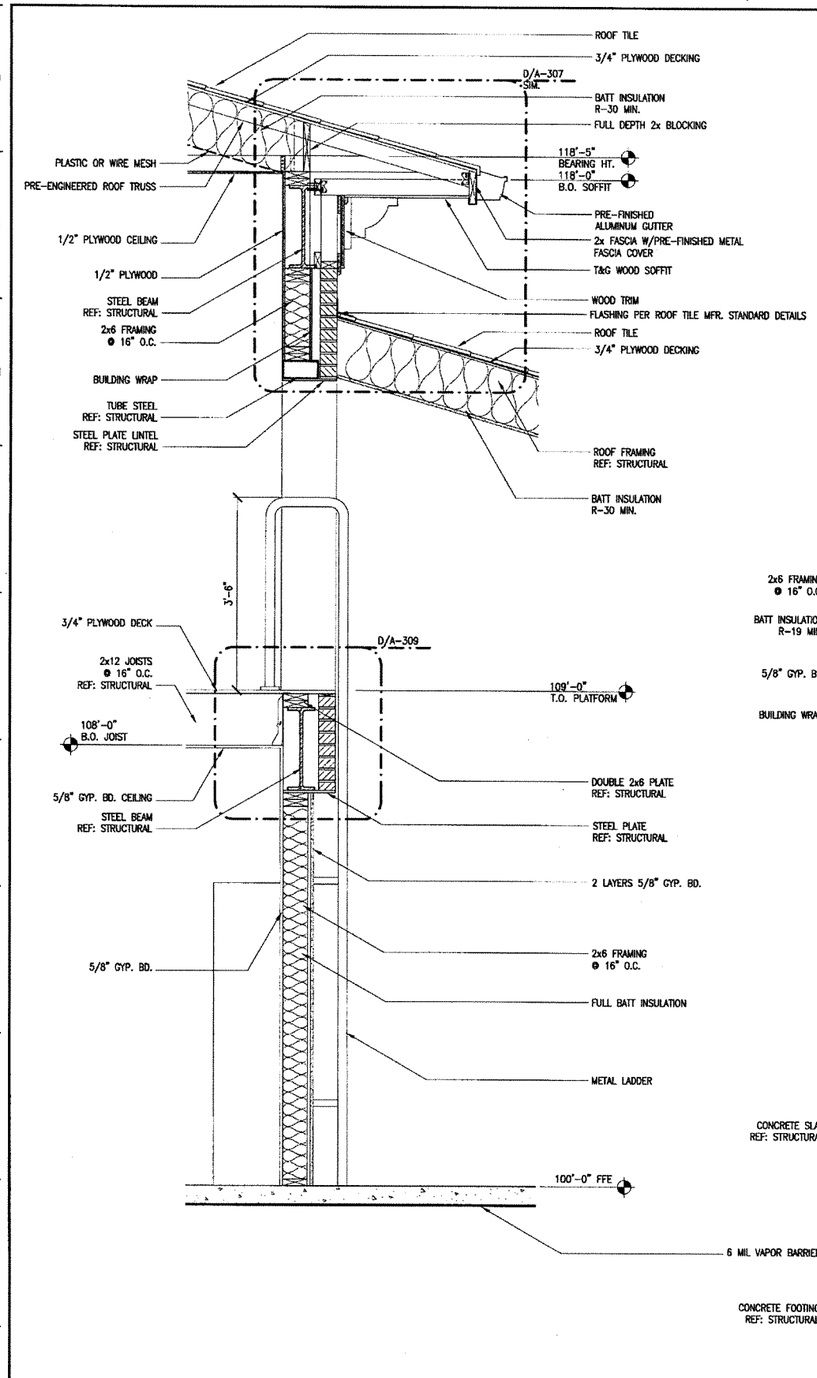
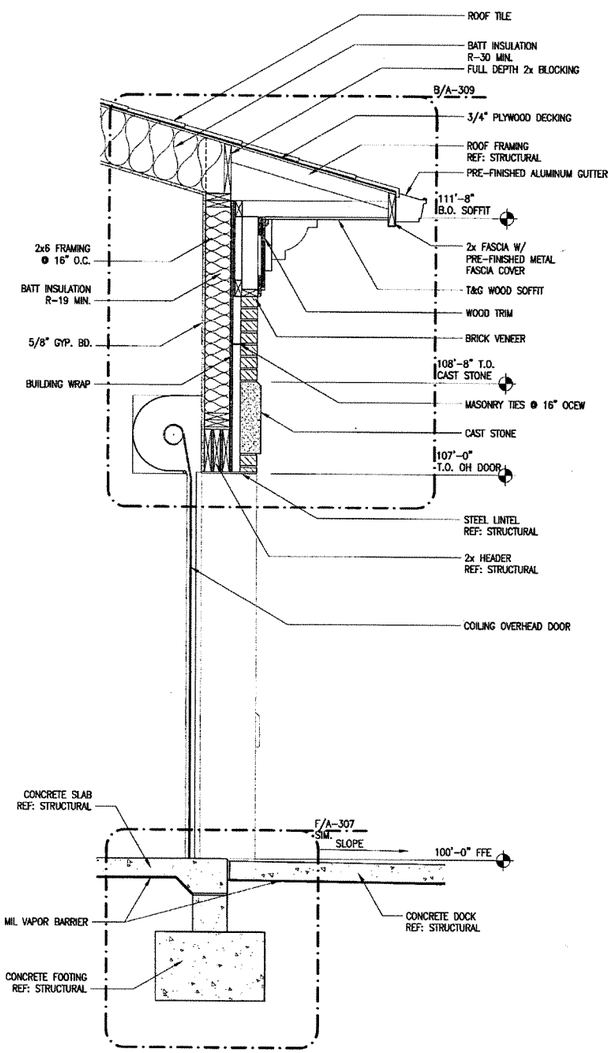
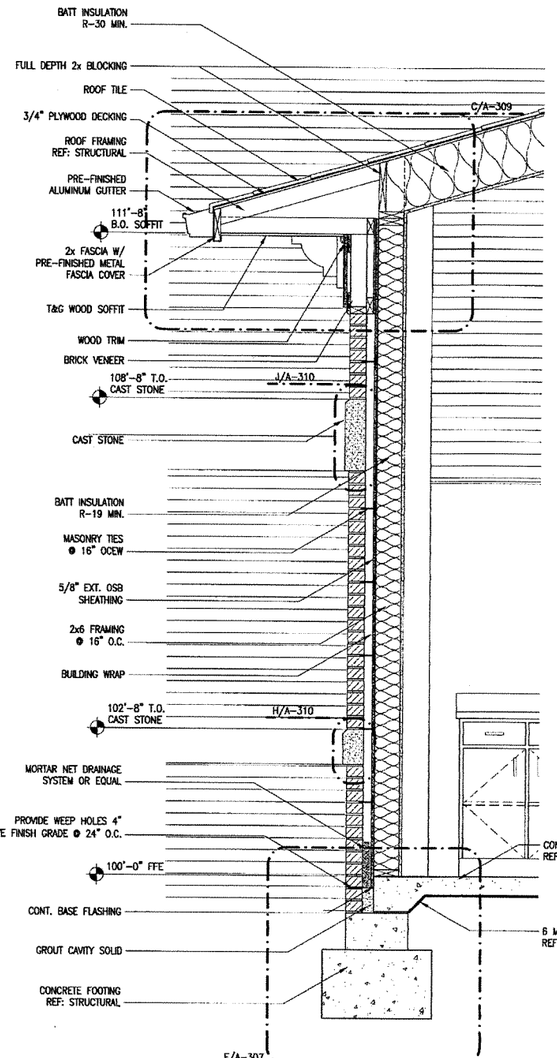


A WALL SECTION
A-305 SCALE: 3/4" = 1'-0"



B WALL SECTION
A-305 SCALE: 3/4" = 1'-0"



C WALL SECTION
A-305 SCALE: 3/4" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT NO. 2365 ARKANSAS 8.29.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

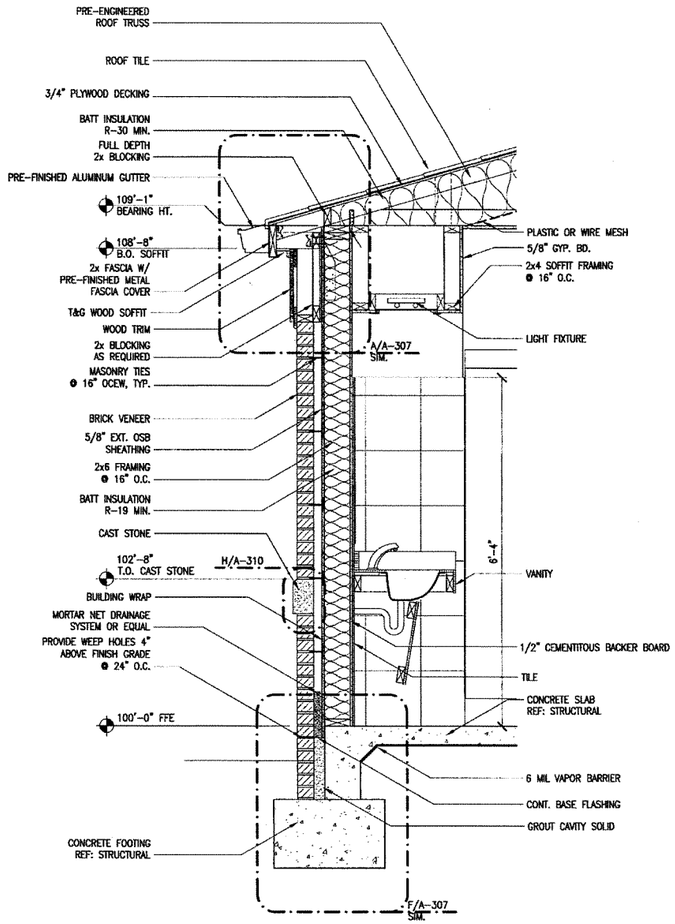
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

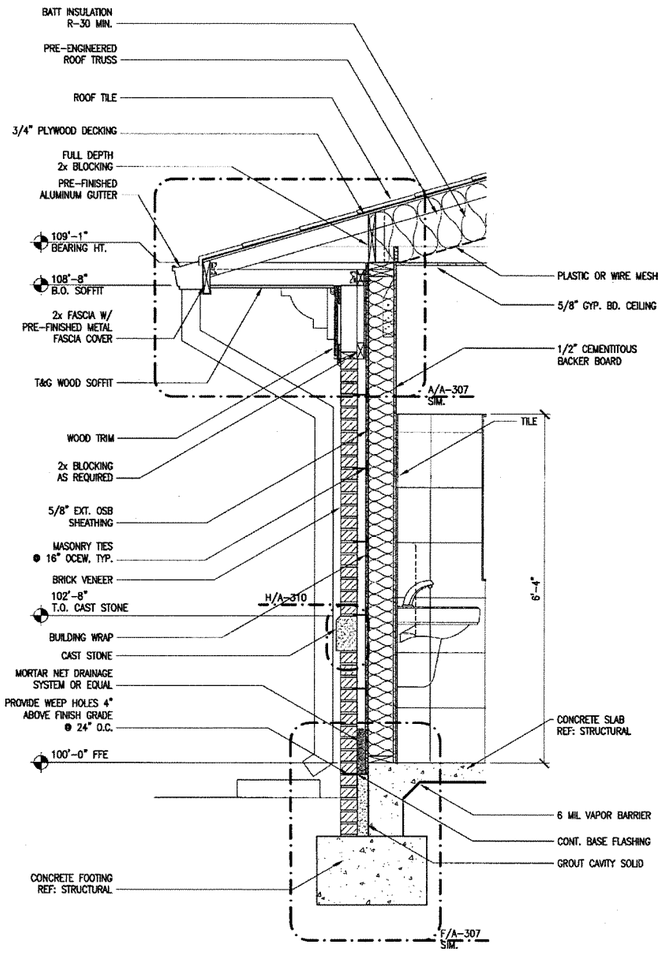
WALL SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-305
REV	0
	58 OF 120



A WALL SECTION
A-306 SCALE: 3/4" = 1'



B WALL SECTION
A-306 SCALE: 3/4" = 1'

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-19-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

WALL SECTIONS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-306
REV	0

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Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A-306.dwg Saved: 11/29/2011 11:25:30 AM By: bradshafftms
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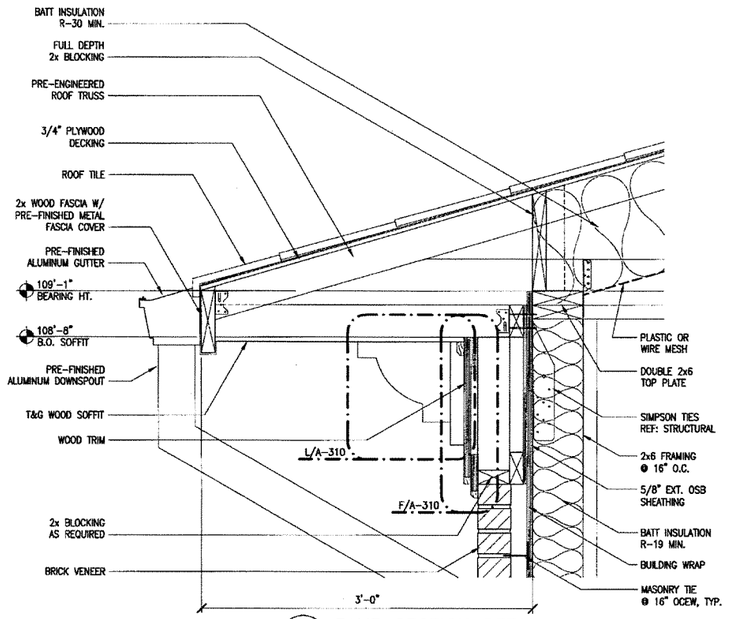
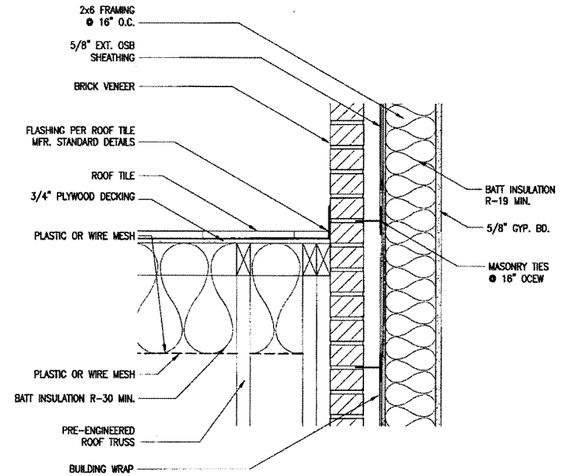
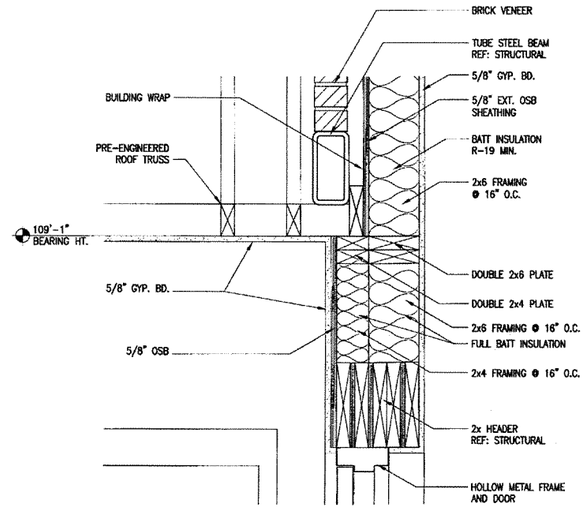


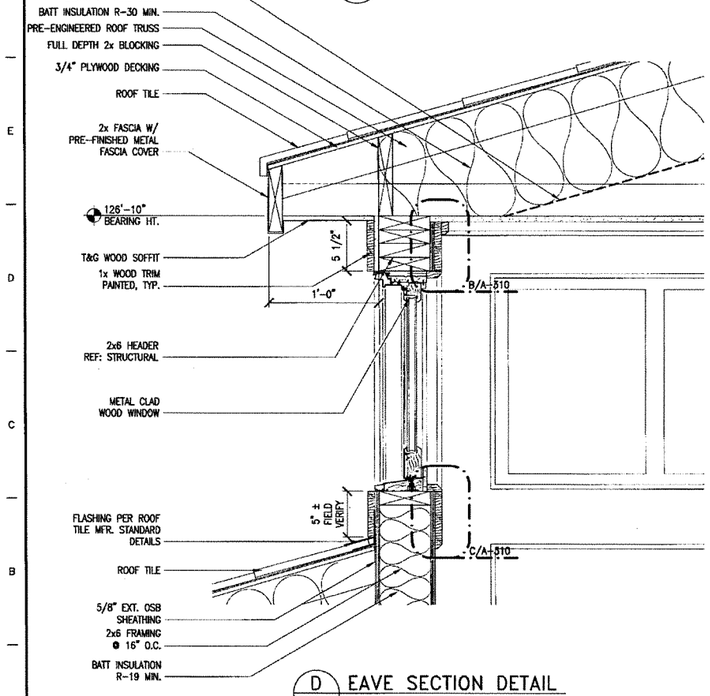
A A-307 EAVE SECTION DETAIL
SCALE: 1 1/2" = 1'



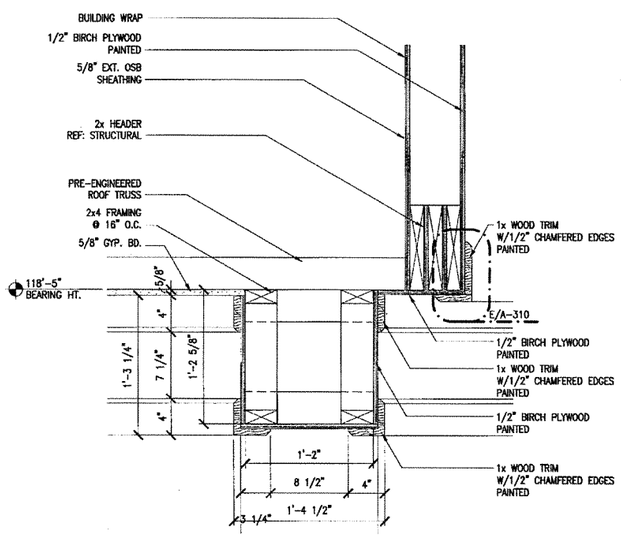
B A-307 RAKE SECTION DETAIL
SCALE: 1 1/2" = 1'



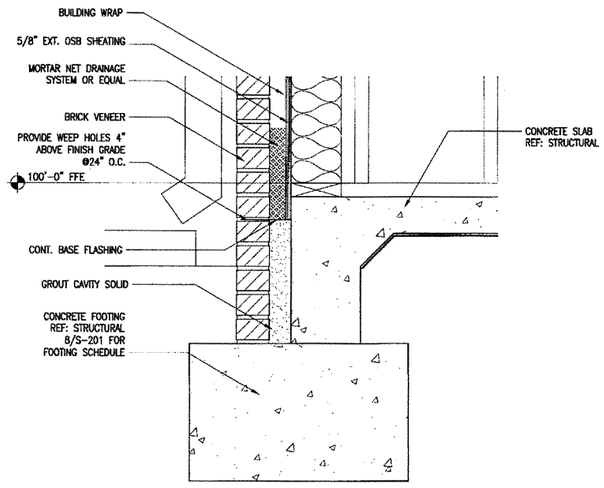
C A-307 WALL SECTION DETAIL
SCALE: 1 1/2" = 1'



D A-307 EAVE SECTION DETAIL
SCALE: 1 1/2" = 1'



E A-307 BEAM SECTION DETAIL
SCALE: 1 1/2" = 1'



F A-307 FOOTING SECTION DETAIL
SCALE: 1 1/2" = 1'

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JOSEPH S. ROGERS — REGISTERED ARCHITECT — No. 2369 — ARKANSAS — 11-15-11

REGISTERED ARCHITECT — SAIC Energy, Environment, & Infrastructure, LLC — No. C-255 — ARKANSAS

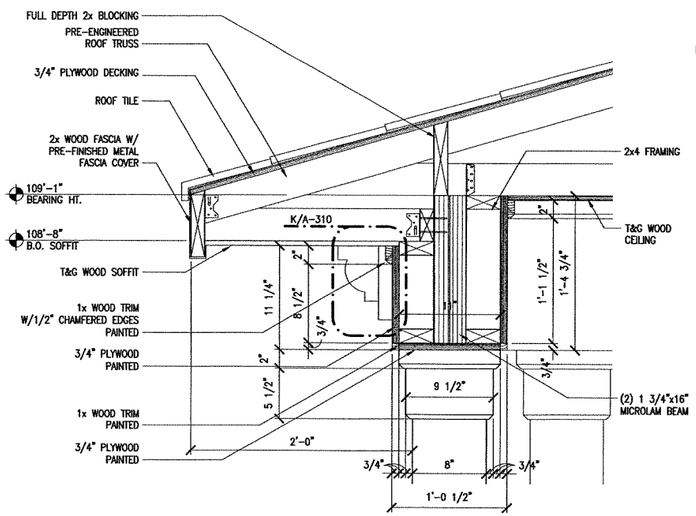
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

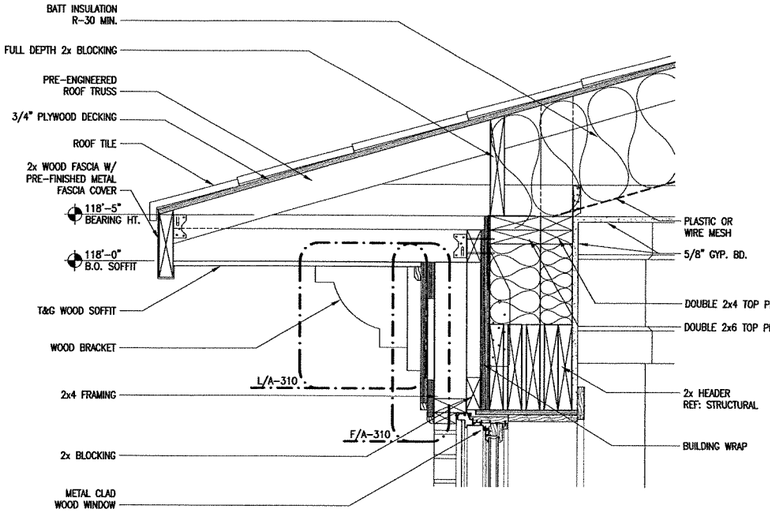
SECTION DETAILS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

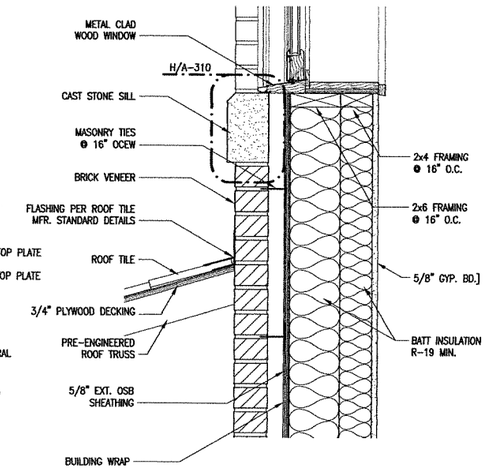
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-307
REV	0
	60 OF 120



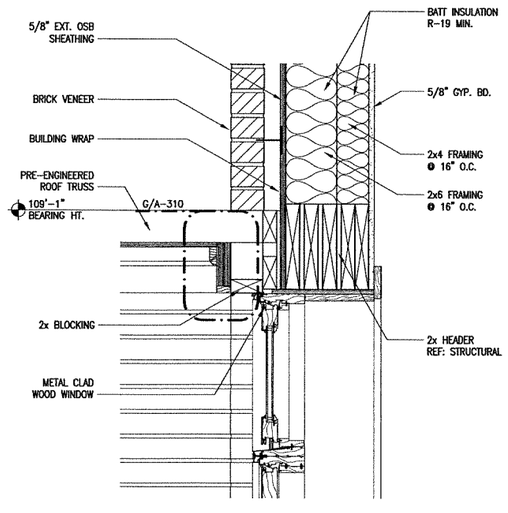
A A-308 COLUMN SECTION DETAIL
SCALE: 1 1/2" = 1'



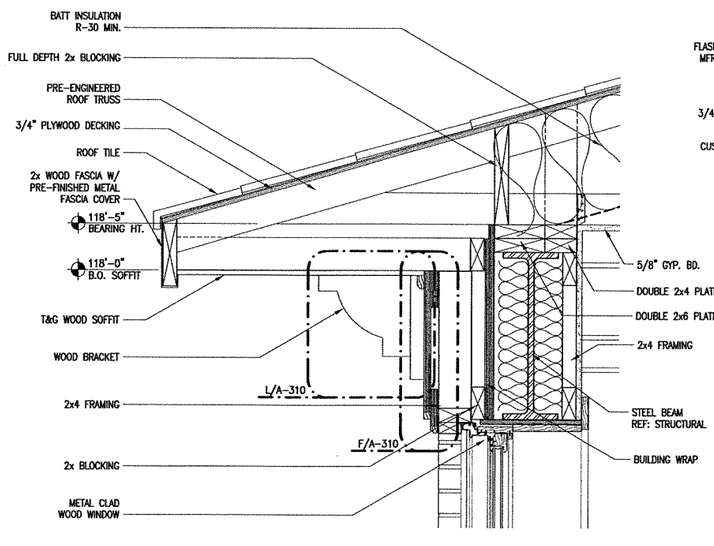
B A-308 SECTION DETAIL
SCALE: 1 1/2" = 1'



C A-308 SECTION DETAIL
SCALE: 1 1/2" = 1'



D A-308 SECTION DETAIL
SCALE: 1 1/2" = 1'



E A-308 SECTION DETAIL
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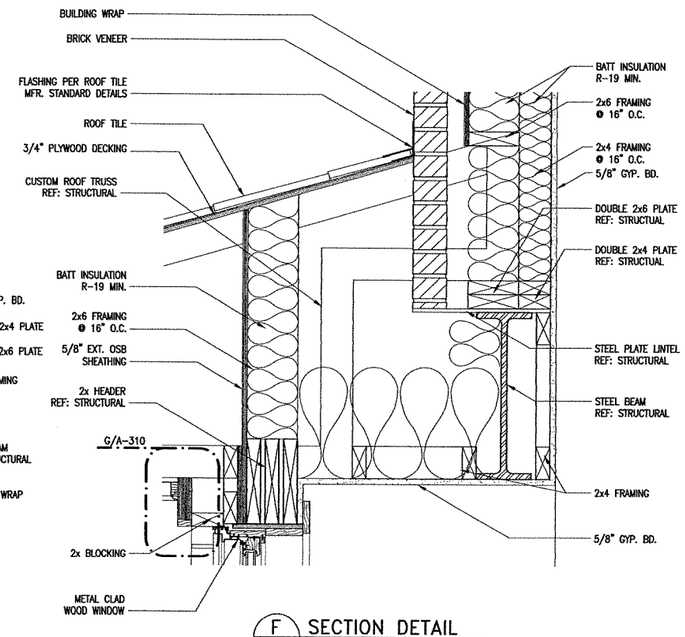

F A-308 SECTION DETAIL
SCALE: 1 1/2" = 1'

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8-15-11

REGISTERED ARCHITECT
SAIC Energy, Environment & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

SECTION DETAILS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-308
REV	0

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A-308.dwg Saved: 8/12/2011 3:49:35 PM By: BREDEHOEFTMS
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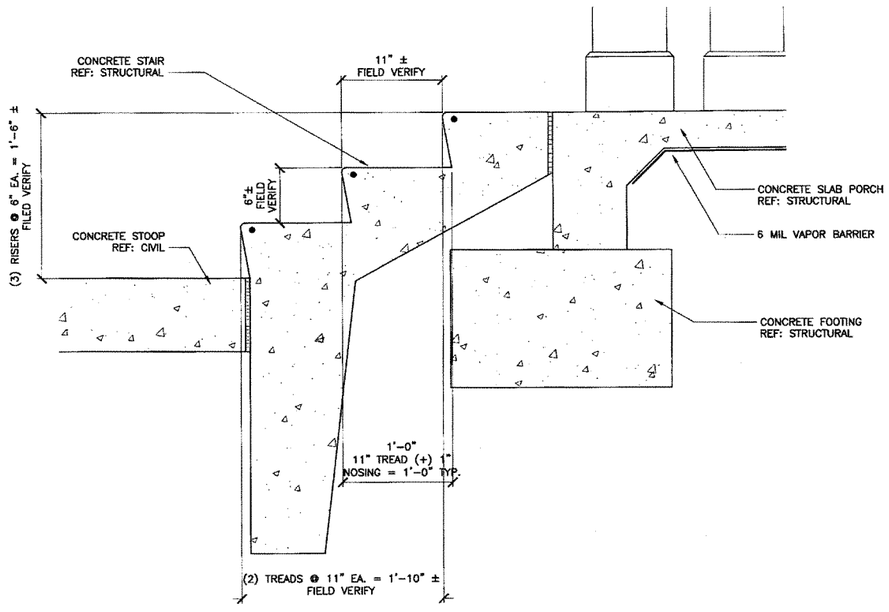
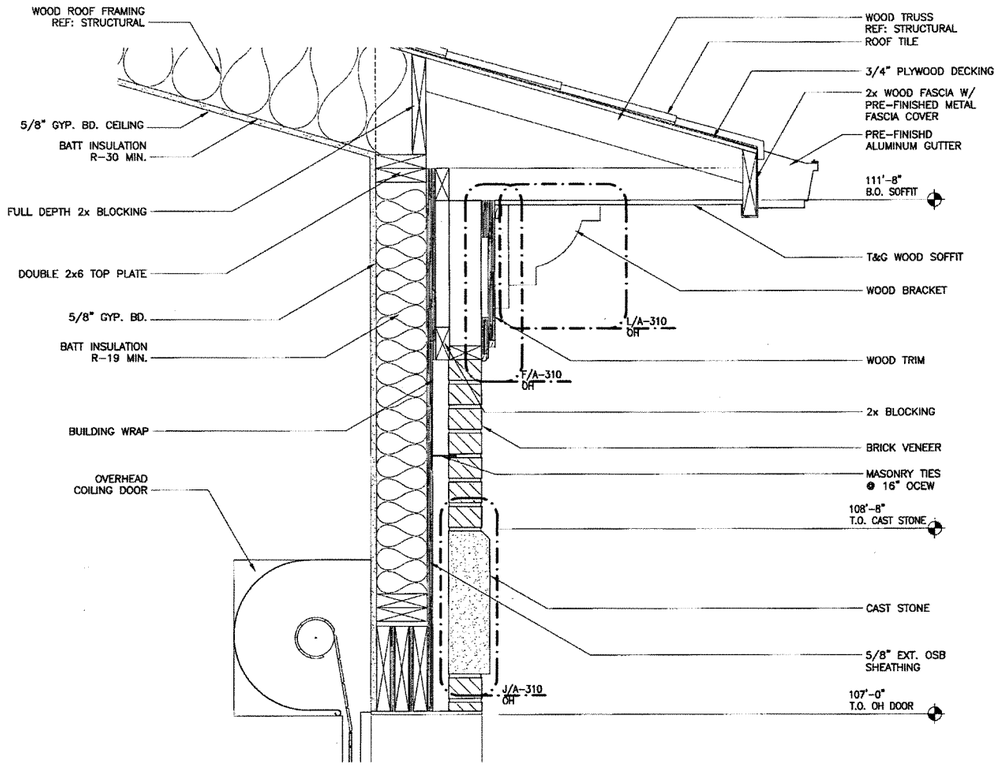
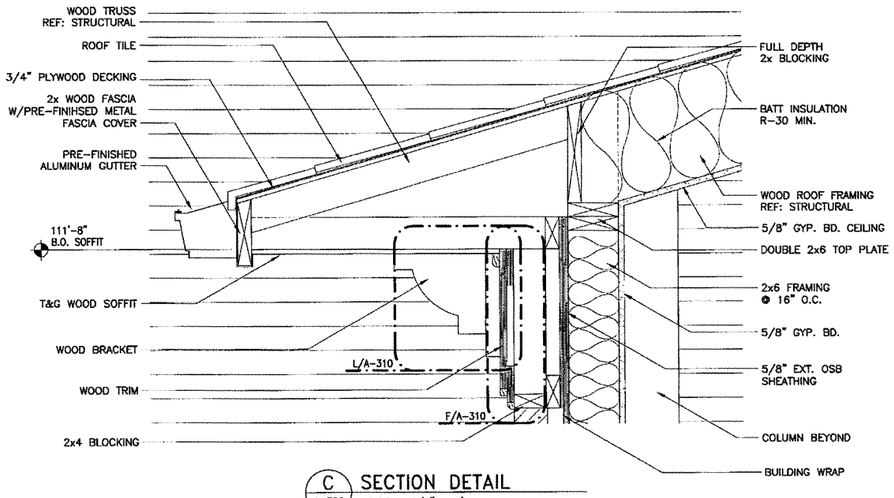


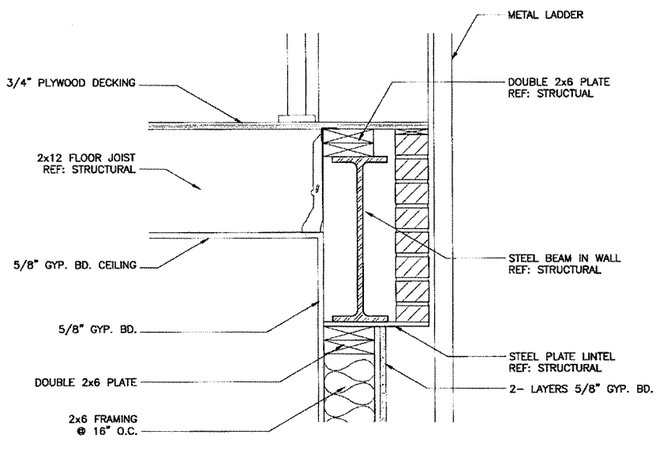
A A-309 PORCH STAIR SECTION DETAIL
SCALE: 1 1/2" = 1'



B A-309 SECTION DETAIL
SCALE: 1 1/2" = 1'



C A-309 SECTION DETAIL
SCALE: 1 1/2" = 1'



D A-309 SECTION DETAIL
SCALE: 1 1/2" = 1'

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201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	05/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
11-25-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

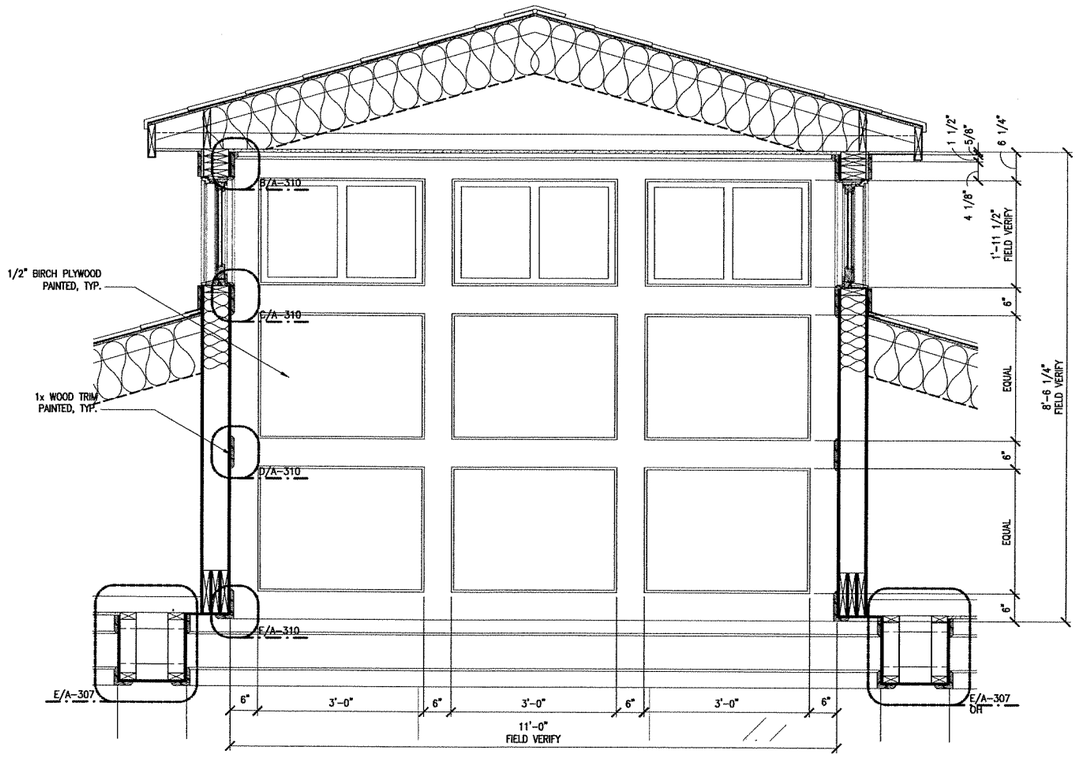
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

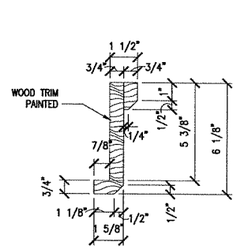
SECTION DETAILS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

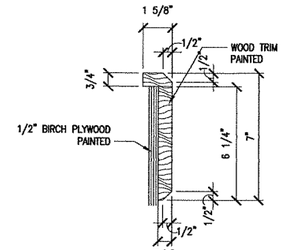
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-309
REV	0
62 OF 120	



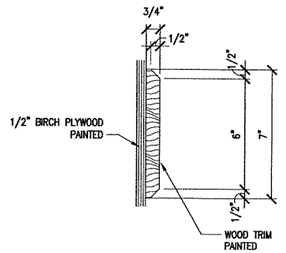
A A-310 CUPOLA DETAIL
SCALE: 3/4" = 1'



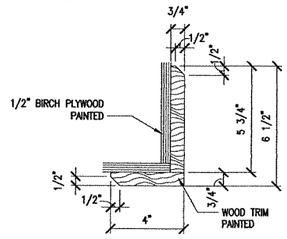
B A-310 WOOD TRIM DETAIL
SCALE: 3" = 1'



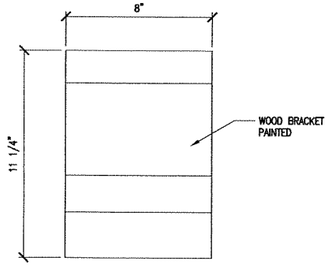
C A-310 WOOD TRIM DETAIL
SCALE: 3" = 1'

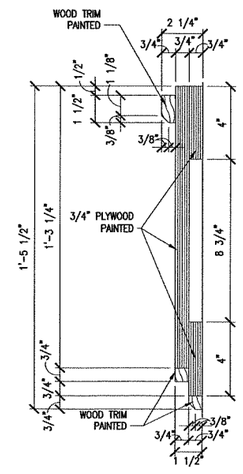


D A-310 WOOD TRIM DETAIL
SCALE: 3" = 1'

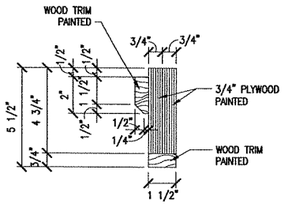


E A-310 WOOD TRIM DETAIL
SCALE: 3" = 1'

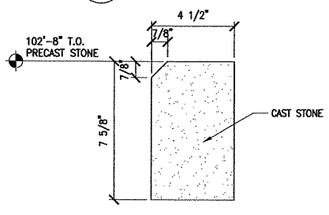




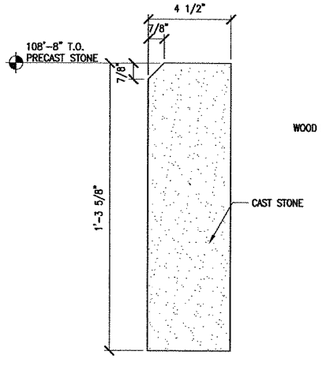
F A-310 EXT. WOOD TRIM DETAIL
SCALE: 3" = 1'



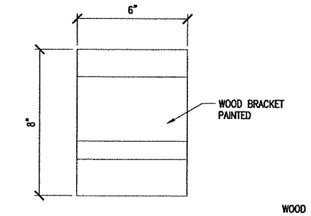
G A-310 WOOD TRIM DETAIL
SCALE: 3" = 1'

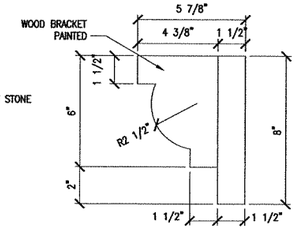


H A-310 CAST STONE DETAIL
SCALE: 3" = 1'

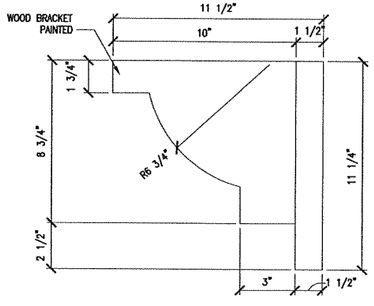


J A-310 CAST STONE DETAIL
SCALE: 3" = 1'





K A-310 BRACKET DETAIL
SCALE: 3" = 1'



L A-310 BRACKET DETAIL
SCALE: 3" = 1'

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS
SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
SECTION DETAILS

DESIGNED BY	JSR
DRAWN BY	MSB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
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SHEET	A-310
REV	0
	63 OF 120

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESIGN\40_CAD\A\0160_A-310.dwg Saved: 8/12/2011 3:50:20 PM By: BREDEH0EFTMS
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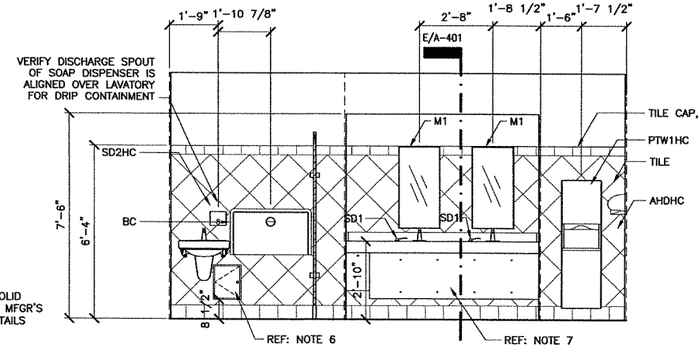
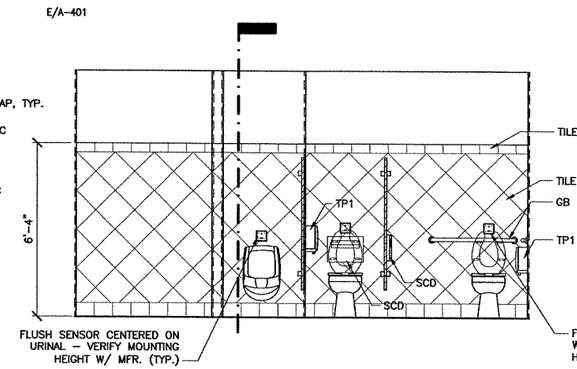
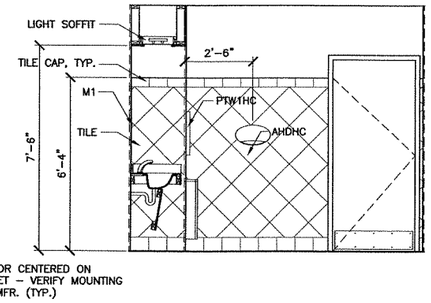


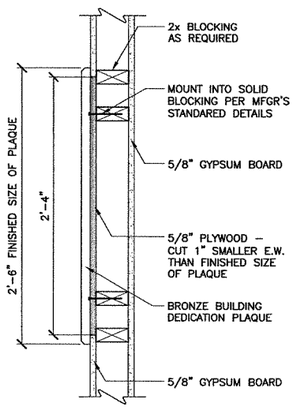
A A-401 MEN'S ROOM 106
SCALE: 3/8" = 1'



B A-401 MEN'S ROOM 106
SCALE: 3/8" = 1'



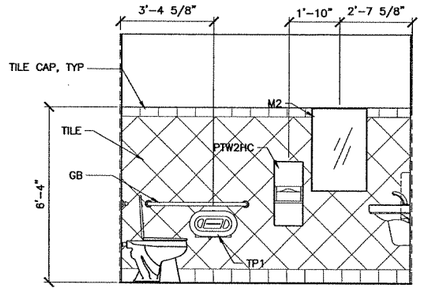
C A-401 MEN'S ROOM 106
SCALE: 3/8" = 1'



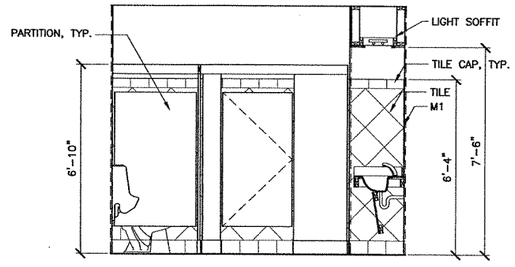
H A-401 PLAQUE MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"

BUILDING DEDICATION PLAQUE NOTES:

1. TEXT, VERBIAGE, FONTS, LINE SPACING, ETC. INDICATED IN DRAWING IS INTENDED TO BE REPRESENTATIVE ONLY. ALL TEXT, VERBIAGE, FONTS, LINE SPACING AND GENERAL ARRANGEMENT SHALL BE SUBMITTED TO THE OWNER IN A FULL SIZE MOCKUP FOR APPROVAL PRIOR TO FABRICATION.
2. GENERAL CONTRACTOR SHALL REQUEST A CURRENT LIST OF ALL NAMES AND TITLES FROM THE OWNER PRIOR TO SUBMITTING A FULL SIZE MOCKUP FOR APPROVAL.



D A-401 MEN'S ROOM 106
SCALE: 3/8" = 1'

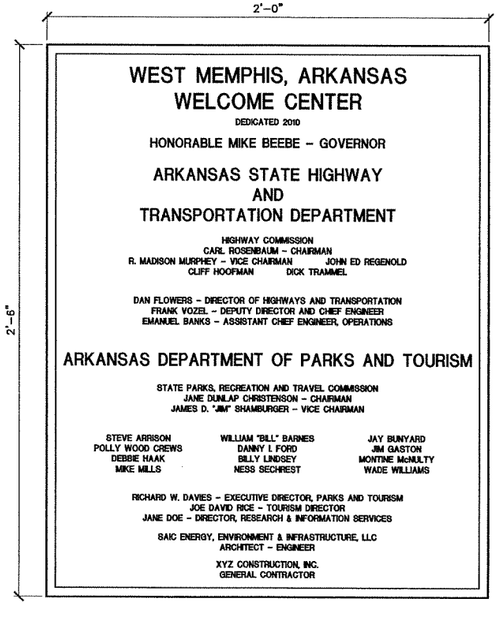


E A-401 MEN'S ROOM 106
SCALE: 3/8" = 1'

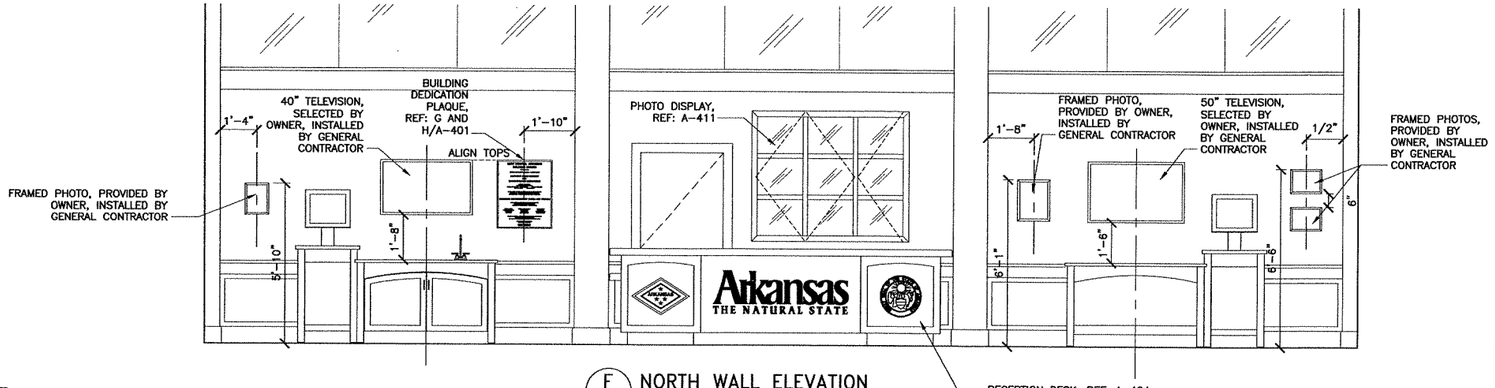
MOUNTING HEIGHT SCHEDULE		
FIXTURE / ACCESSORY	DIM.	REMARKS
TOILET SEATS (STANDARD)	14"	15" TO RIM MAX.
TOILET SEATS (ACCESSIBLE)	17"	19" TOP OF SEAT MAX.
LAVATORIES (ACCESSIBLE)	34"	TO BOTTOM OF FRONT RIM.
WATER COOLER (STANDARD)	40"	TO SPOUT
WATER COOLER (ACCESSIBLE)	36"	TO SPOUT
URINAL (STANDARD)	19"	TO RIM
URINAL (ACCESSIBLE)	17"	TO RIM
ACCESSORIES		SEE SCHEDULE, A-102

TOILET ROOM NOTES:

1. REFER TO SHEET A-102 FOR TOILET ACCESSORY ABBREVIATIONS AND MOUNTING HEIGHTS.
2. SPECIFIED SEAT COVER DISPENSERS ARE BOTTOM LOADING. VERIFY ADEQUATE CLEARANCE ABOVE WATER CLOSET FOR PROPER LOADING.
3. FLUSH SENSORS SHALL BE CENTERED ON CORRESPONDING FIXTURES. VERIFY MANUFACTURER'S RECOMMENDED MOUNTING HEIGHT TO AVOID INTERFERENCE FROM TOILET SEATS LEFT IN RAISED POSITION.
4. COORDINATE GRAB BAR INSTALLATION TO AVOID INTERFERENCE WITH FINAL INSTALLED LOCATION OF FLUSH SENSOR. GRAB BARS MAY BE INSTALLED BETWEEN 2'-9" (MINIMUM) AND 3'-0" (MAXIMUM) ABOVE FINISHED FLOOR (MEASURED TO THE TOP OF THE GRIPPING SURFACE).
5. ALL TOILETS, TOILET PARTITIONS AND TOILET ROOM ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ICC/ANSI A117.1–2003.
6. STAINLESS STEEL SECURITY BOX RECESSED IN WALL TO CONTAIN AUTOMATIC FAUCET SENSOR CONTROLS, POWER CONNECTIONS AND MIXING VALVE. VERIFY MINIMUM SIZE REQUIRED FOR INSTALLED EQUIPMENT AND TO MAINTAIN COMPACT INSTALLATION. SUBMIT SECURITY BOX CUT SHEET TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION AND COORDINATE TRADES AS NECESSARY.
7. SOLID SURFACING FRONT ACCESS PANEL SHALL BE CONSTRUCTED IN TWO PIECES. PROVIDE SCREWS FOR PERIODIC MAINTENANCE REMOVAL.



G A-401 BRONZE BUILDING DEDICATION PLAQUE
SCALE: 3" = 1'-0"



F A-401 NORTH WALL ELEVATION
SCALE: 3/8" = 1'

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
INTERIOR ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	MSB
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DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A–401
REV	0

64 OF 120

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A–401.dwg Saved: 8/12/2011 4:01:27 PM By: BREDEHOEFFMS
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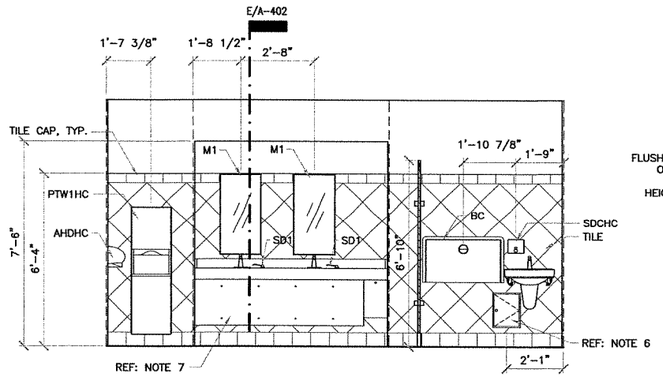
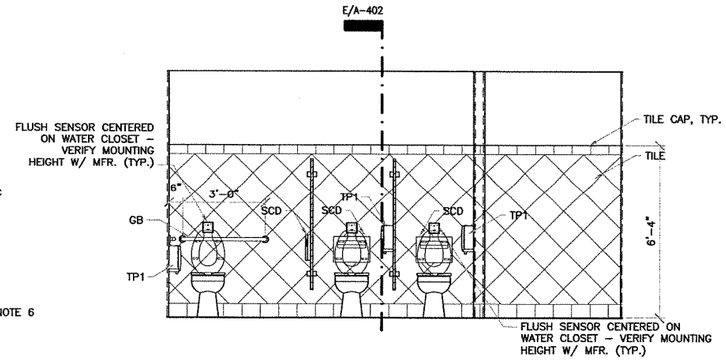


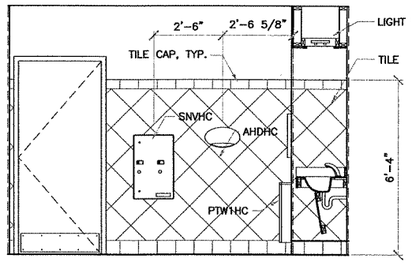
A A-402 WOMEN'S ROOM 104
SCALE: 3/8" = 1'



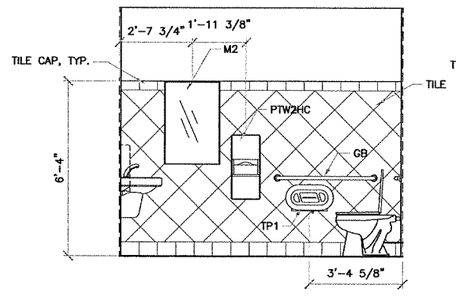
B A-402 WOMEN'S ROOM 104
SCALE: 3/8" = 1'

TOILET ROOM NOTES:

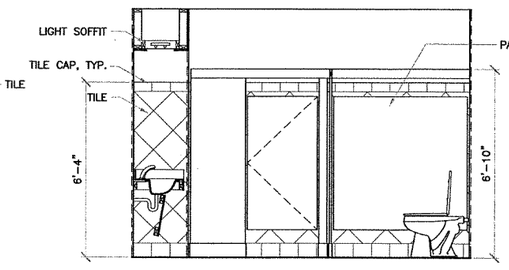
1. REFER TO SHEET A-102 FOR TOILET ACCESSORY ABBREVIATIONS AND MOUNTING HEIGHTS.
2. SPECIFIED SEAT COVER DISPENSERS ARE BOTTOM LOADING. VERIFY ADEQUATE CLEARANCE ABOVE WATER CLOSET FOR PROPER LOADING.
3. FLUSH SENSORS SHALL BE CENTERED ON CORRESPONDING FIXTURES. VERIFY MANUFACTURER'S RECOMMENDED MOUNTING HEIGHT TO AVOID INTERFERENCE FROM TOILET SEATS LEFT IN RAISED POSITION.
4. COORDINATE GRAB BAR INSTALLATION TO AVOID INTERFERENCE WITH FINAL INSTALLED LOCATION OF FLUSH SENSOR. GRAB BARS MAY BE INSTALLED BETWEEN 2'-9" (MINIMUM) AND 3'-0" (MAXIMUM) ABOVE FINISHED FLOOR (MEASURED TO THE TOP OF THE GRIPPING SURFACE).
5. ALL TOILETS, TOILET PARTITIONS AND TOILET ROOM ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ICC/ANSI A117.1-200
6. STAINLESS STEEL SECURITY BOX RECESSED IN WALL TO CONTAIN AUTOMATIC FAUCET SENSOR CONTROLS, POWER CONNECTIONS AND MIXING VALVE. VERIFY MINIMUM SIZE REQUIRED FOR INSTALLED EQUIPMENT AND TO MAINTAIN COMPACT INSTALLATION. SUBMIT SECURITY BOX CUT SHEET TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION AND COORDINATE TRADES AS NECESSARY.
7. SOLID SURFACING FRONT ACCESS PANEL SHALL BE CONSTRUCTED IN TWO PIECES. PROVIDE SCREWS FOR PERIODIC MAINTENANCE REMOVAL.



C A-402 WOMEN'S ROOM 104
SCALE: 3/8" = 1'

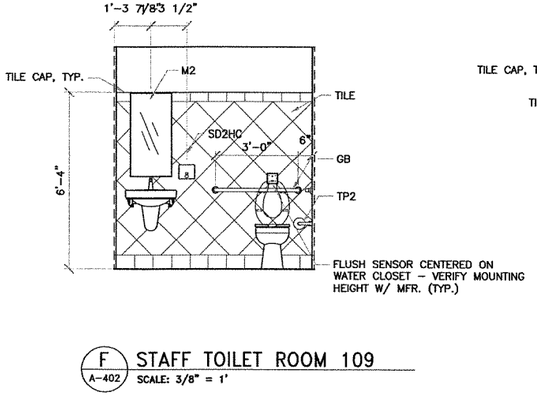


D A-402 WOMEN'S ROOM 104
SCALE: 3/8" = 1'

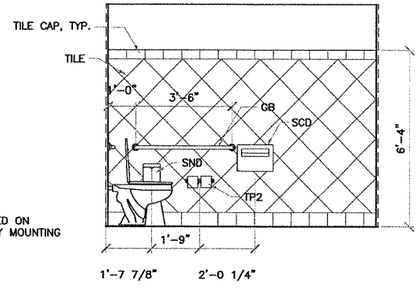


E A-402 WOMEN'S ROOM 104
SCALE: 3/8" = 1'

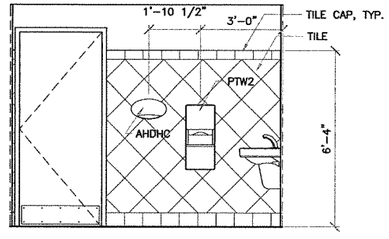
MOUNTING HEIGHT SCHEDULE		
FIXTURE / ACCESSORY	DIM.	REMARKS
TOILET SEATS (STANDARD)	14"	15" TO RIM MAX.
TOILET SEATS (ACCESSIBLE)	17"	19" TOP OF SEAT MAX.
LAVATORIES (ACCESSIBLE)	34"	TO BOTTOM OF FRONT RIM.
WATER COOLER (STANDARD)	40"	TO SPOUT
WATER COOLER (ACCESSIBLE)	36"	TO SPOUT
URINAL (STANDARD)	19"	TO RIM
URINAL (ACCESSIBLE)	17"	TO RIM
ACCESSORIES		SEE SCHEDULE, A-102



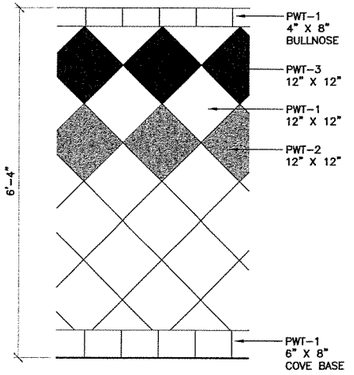
F A-402 STAFF TOILET ROOM 109
SCALE: 3/8" = 1'



G A-402 STAFF TOILET ROOM 109
SCALE: 3/8" = 1'



H A-402 STAFF TOILET ROOM 109
SCALE: 3/8" = 1'



F A-402 TYPICAL WALL TILE PATTERN
SCALE: 3/8" = 1'

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West Helena, Arkansas
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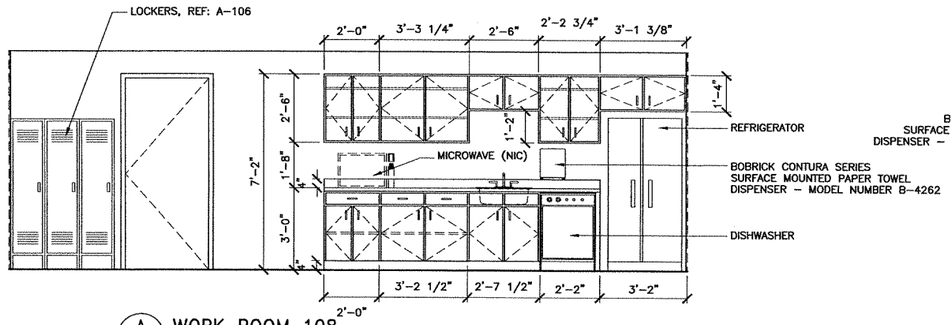
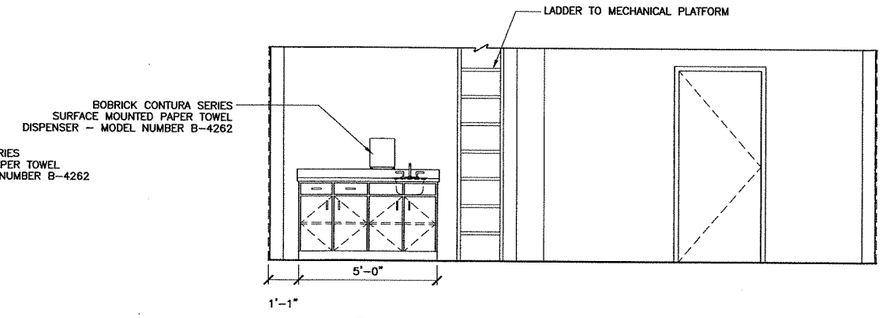
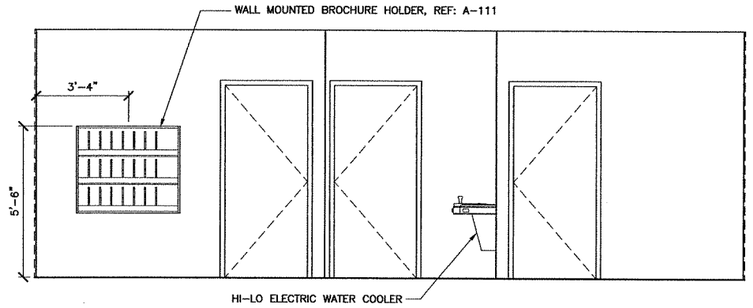
SHEET	A-402
REV	0
	65 OF 120



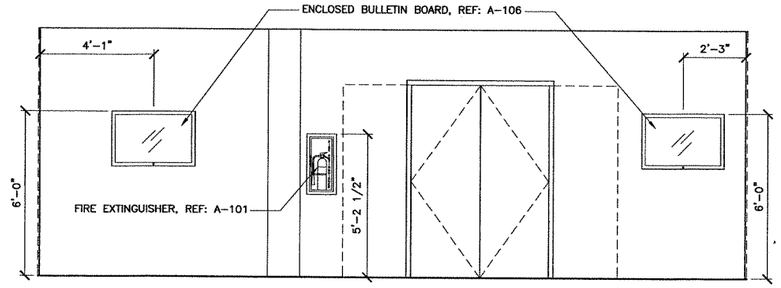
A A-403 WORK ROOM 108
SCALE: 3/8" = 1'



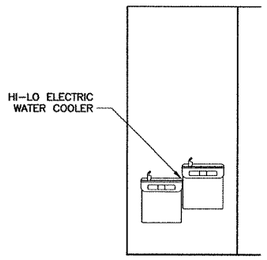
B A-403 STORAGE ROOM 110
SCALE: 3/8" = 1'



C A-403 VESTIBULE ROOM 103
SCALE: 3/8" = 1'

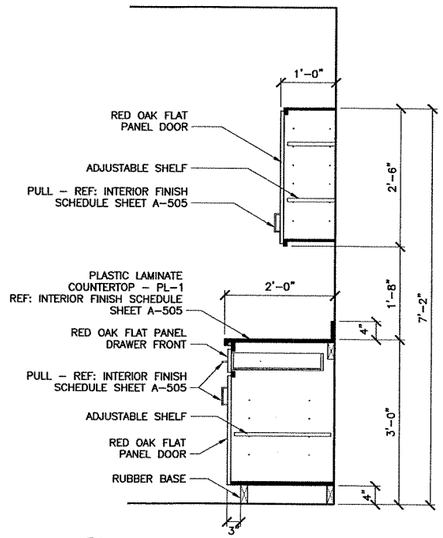


D A-403 VESTIBULE ROOM 103
SCALE: 3/8" = 1'

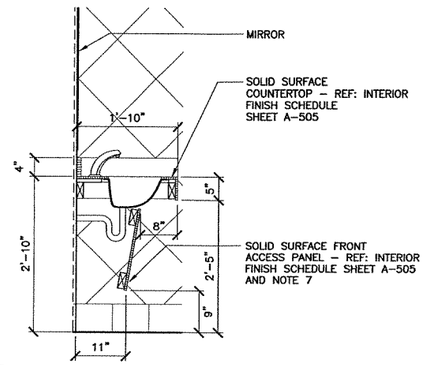


E A-403 DRINKING FOUNTAIN
SCALE: 3/8" = 1'

MOUNTING HEIGHT SCHEDULE		
FIXTURE / ACCESSORY	DIM.	REMARKS
TOILET SEATS (STANDARD)	14"	15" TO RIM MAX.
TOILET SEATS (ACCESSIBLE)	17"	19" TOP OF SEAT MAX.
LAVATORIES (ACCESSIBLE)	34"	TO BOTTOM OF FRONT RIM.
WATER COOLER (STANDARD)	40"	TO SPOUT
WATER COOLER (ACCESSIBLE)	36"	TO SPOUT
URINAL (STANDARD)	19"	TO RIM
URINAL (ACCESSIBLE)	17"	TO RIM
ACCESSORIES		SEE SCHEDULE, A-102



G A-403 TYPICAL CABINET SECTION
SCALE: 3/4" = 1'



H A-403 TYPICAL CABINET SECTION
SCALE: 3/4" = 1'

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

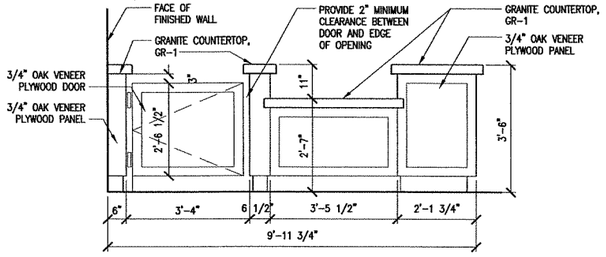
West Helena, Arkansas
AHTD Job No. 110536

INTERIOR ELEVATIONS

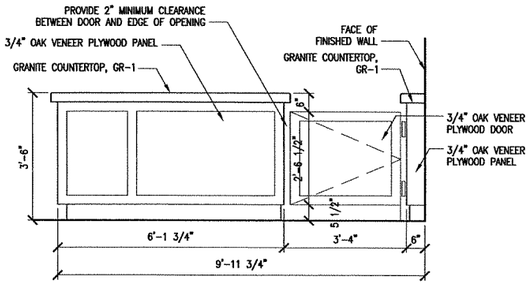
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-403
REV	0
66 OF 120	

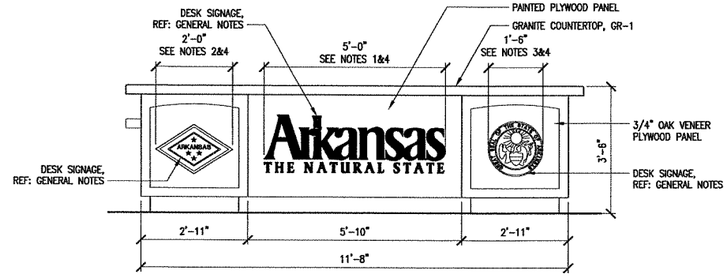
Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A-403.dwg Saved: 8/12/2011 3:51:08 PM By: BREDEHOEFTMS
Xrefs: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\0160_G-BS01.dwg P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\0160_A-EL02.dwg



A A-404 RECEPTION DESK – LEFT SIDE
SCALE: 1/2" = 1'-0"



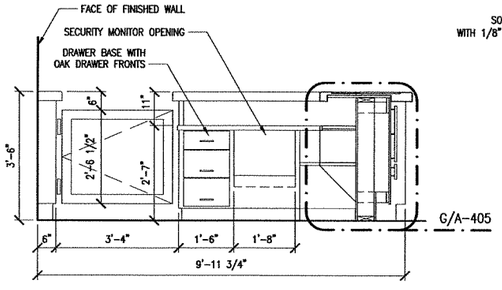
B A-404 RECEPTION DESK – RIGHT SIDE
SCALE: 1/2" = 1'-0"



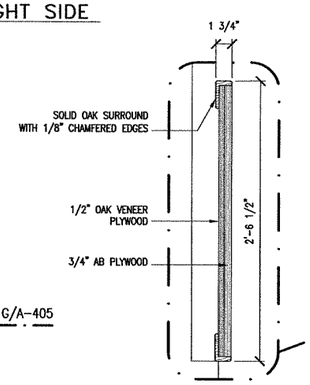
C A-404 RECEPTION DESK – PUBLIC SIDE
SCALE: 1/2" = 1'-0"

GENERAL SIGNAGE NOTES:

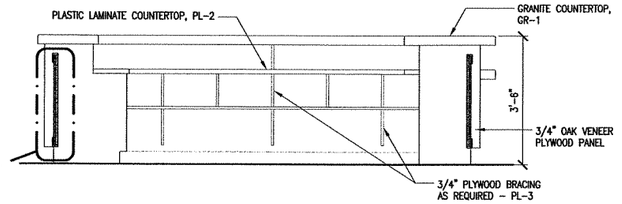
1. "ARKANSAS THE NATURAL STATE" IS A REGISTERED TRADEMARK OF THE STATE OF ARKANSAS. FONT MUST BE IAW REGISTERED LOGO. CAMERA-READY ARTWORK FOR THE INDICATED FONT IS AVAILABLE FROM THE ARCHITECT. LETTERS ARE TO BE 1" THICK BRONZE, MOUNTED ON 1/2" STANDOFFS FROM THE FACE OF THE DESK. COORDINATE INSTALLATION OF LETTERS. LETTERS SHALL BE SECURED AND REINFORCED FROM THE BACK PRIOR TO INSTALLATION OF INNER DESK FINISHES. COLOR TO BE SELECTED.
2. DIAMOND SHAPE TO BE 1" THICK BRONZE, SECURED AND REINFORCED FROM THE BACK PRIOR TO INSTALLATION OF INNER DESK FINISHES. COLOR TO BE SELECTED.
3. GREAT SEAL OF THE STATE OF ARKANSAS PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR AND SHALL BE SECURED AND REINFORCED FROM THE BACK PRIOR TO INSTALLATION OF INNER DESK FINISHES.
4. A DIMENSION IS GIVEN TO ESTABLISH THE OVERALL SIZE OF THE SIGNAGE. THE OVERALL PROPORTION OF EACH ITEM IS TO BE MAINTAINED AND EACH SHALL BE MOUNTED CENTERED SIDE TO SIDE AND TOP TO BOTTOM.



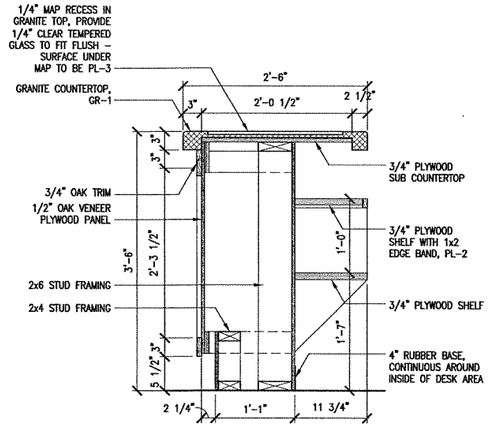
RECEPTION DESK – RIGHT SIDE EMPLOYEE AREA ELEVATION
D A-404 SCALE: 1/2" = 1'-0"



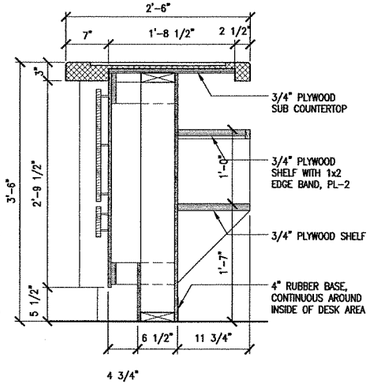
E A-404 DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



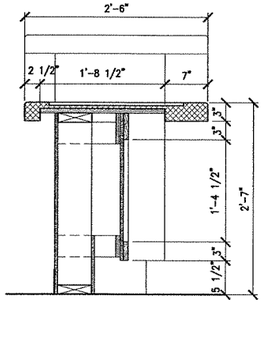
F A-404 RECEPTION DESK – EMPLOYEE AREA
SCALE: 1/2" = 1'-0" CUT THROUGH SWINGING DOORS



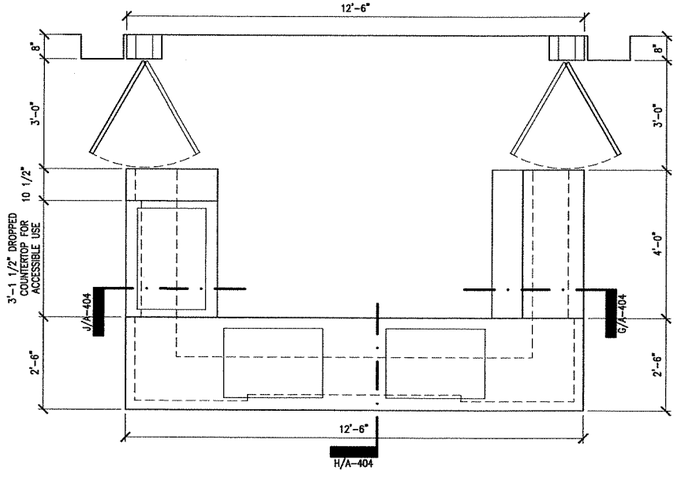
G A-404 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



H A-404 RECEPTION DESK SECTION
SCALE: 1" = 1'-0"



RECEPTION DESK – @ ACCESSIBLE COUNTER
J A-404 SCALE: 1" = 1'-0"



K A-404 RECEPTION DESK – PLAN VIEW
SCALE: 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

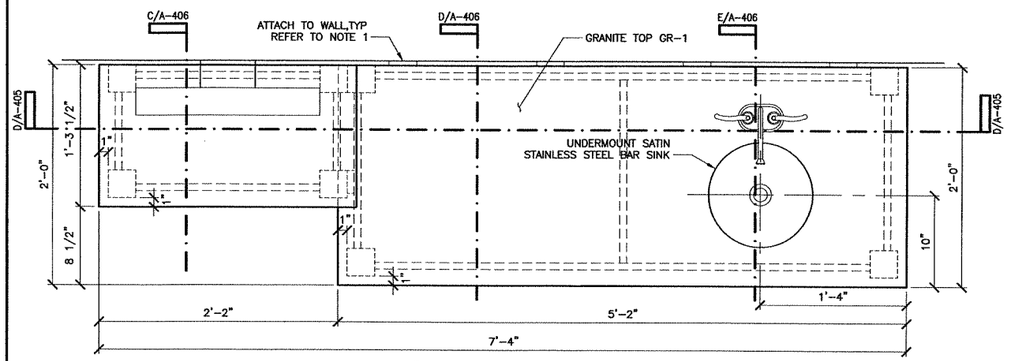
ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS RECEPTION DESK

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

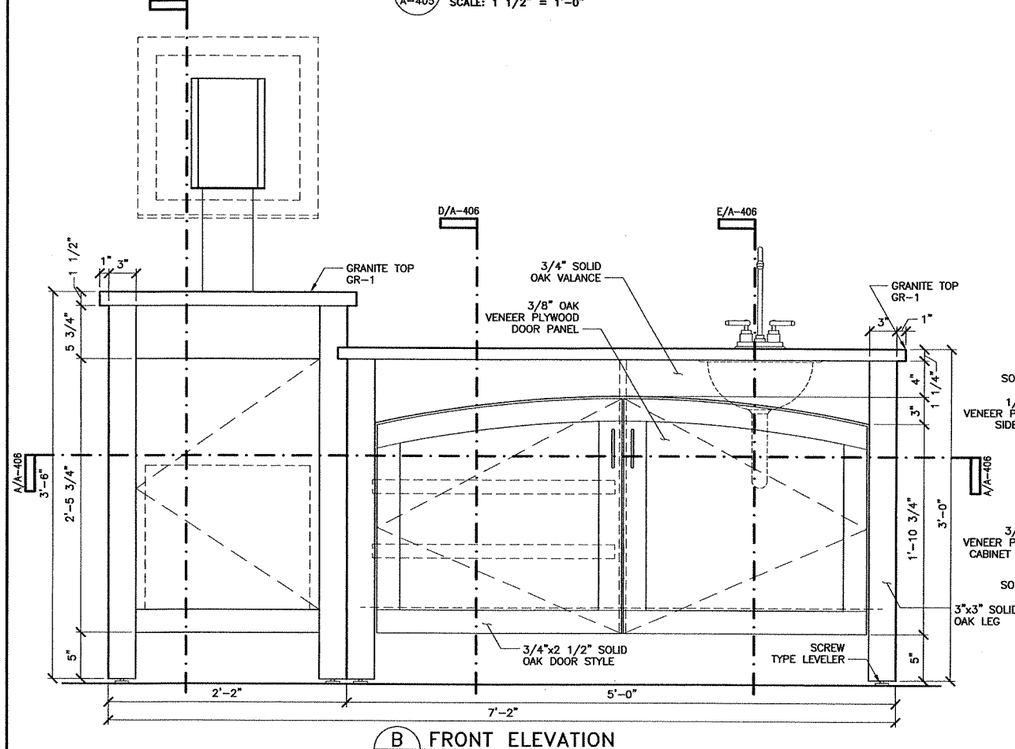
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-404
REV	0
67 OF 120	

GENERAL NOTES:

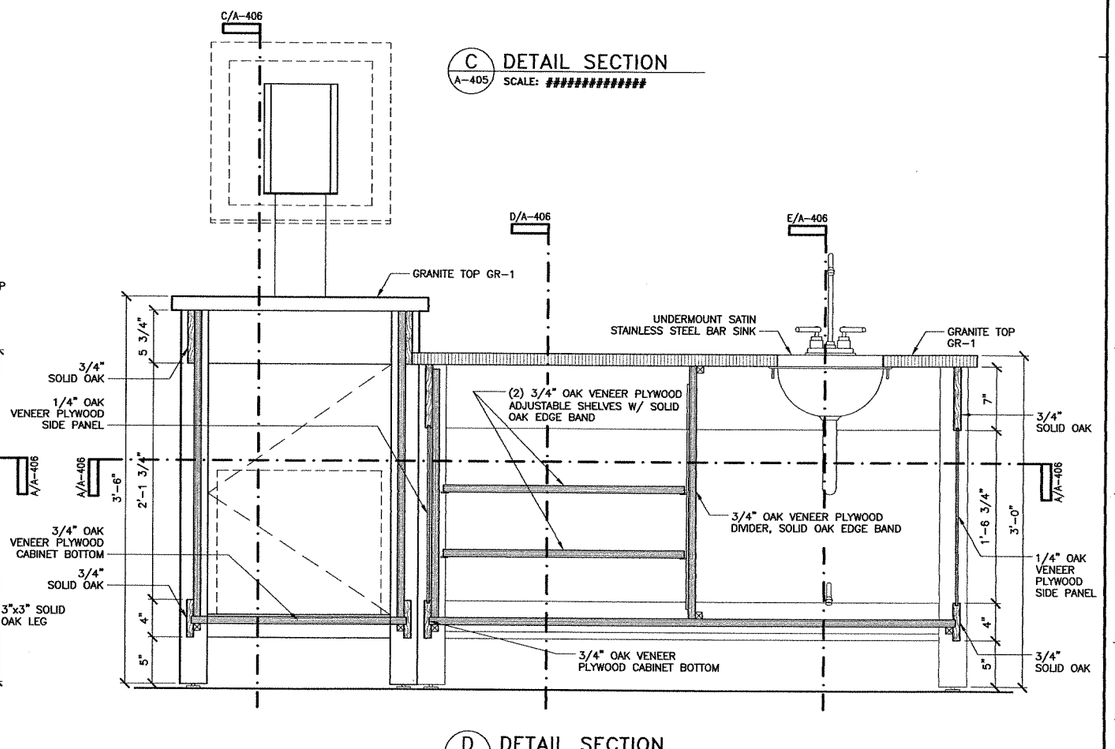
1. SECURELY ATTACH UNIT TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND. DO NOT CAULK BETWEEN GRANITE TOP AND WALL FINISH MATERIAL.
2. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
3. CABINET DOOR HINGES SHALL BE CONCEALED, SELF CLOSING TYPE.
4. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
5. CABINET DOOR PANEL AND CABINET SIDE PANEL GRAIN SHALL RUN VERTICALLY.
6. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
7. ADJUSTABLE SHELVING IS PROVIDED FOR AUDIO-VISUAL EQUIPMENT. COORDINATE WITH AV INSTALLER TO CUT CABINET BACK AS REQUIRED FOR CABLE ENTRY.
8. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.
9. 6"x10" (ACTUAL OPENING) 8-3/4"x13" (OUTSIDE VENT DIMENSIONS) FLUSH MOUNT EGG CRATE VENT BY FRETWORKS INTERNATIONAL OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.



A ENLARGED PLAN
A-405 SCALE: 1 1/2" = 1'-0"



B FRONT ELEVATION
A-405 SCALE: 1 1/2" = 1'-0"



C DETAIL SECTION
A-405 SCALE: ##############

D DETAIL SECTION
A-405 SCALE: 1 1/2" = 1'-0"

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8-15-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS COFFEE BAR-KIOSK

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-405
REV	0

68 OF 120

Filename: P:\LOW\FAC\6351016000_ohtdwesthelena\20_DESGN\40_CAD\A\0160_A-405.dwg Saved: 8/12/2011 3:51:55 PM By: BREDEHOEFTMS
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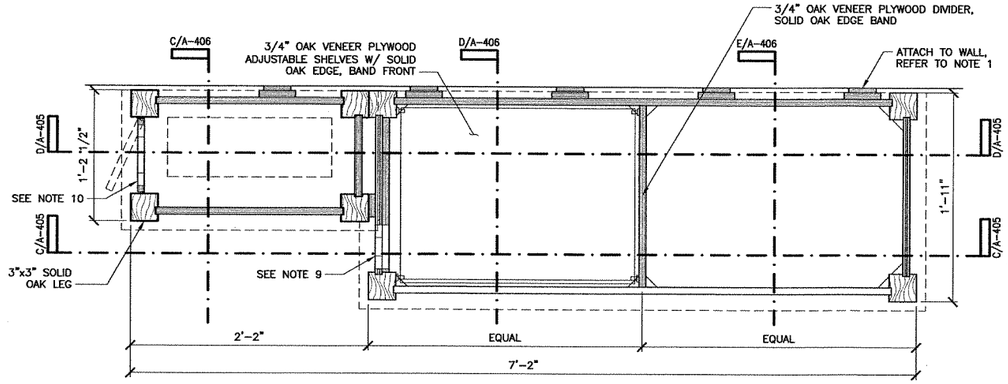
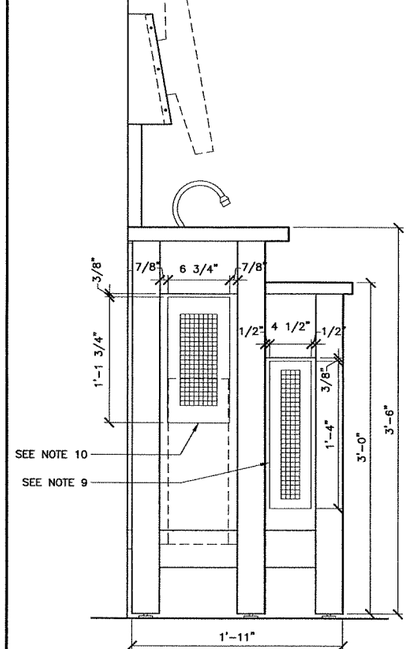
GENERAL NOTES:

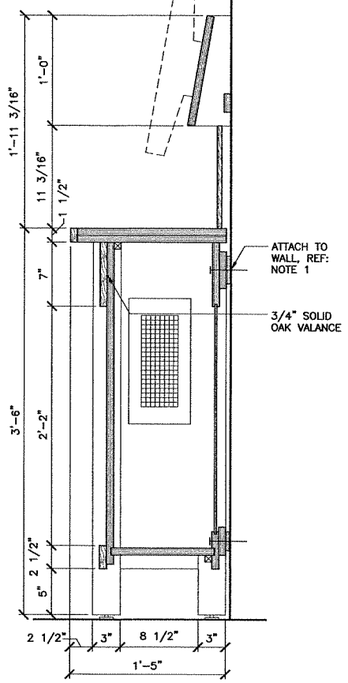
1. SECURELY ATTACH UNIT TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND. DO NOT CAULK BETWEEN GRANITE TOP AND WALL FINISH MATERIAL.
2. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
3. CABINET DOOR HINGES SHALL BE CONCEALED, SELF CLOSING TYPE.
4. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
5. CABINET DOOR PANEL AND CABINET SIDE PANEL GRAIN SHALL RUN VERTICALLY.
6. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
7. ADJUSTABLE SHELVING IS PROVIDED FOR AUDIO-VISUAL EQUIPMENT. COORDINATE WITH AV INSTALLER TO CUT CABINET BACK AS REQUIRED FOR CABLE ENTRY.
8. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.
9. 2-1/4" X 12" (4-1/2" X 14" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.
10. 4" X 10" (6-3/4" X 12-3/4" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.



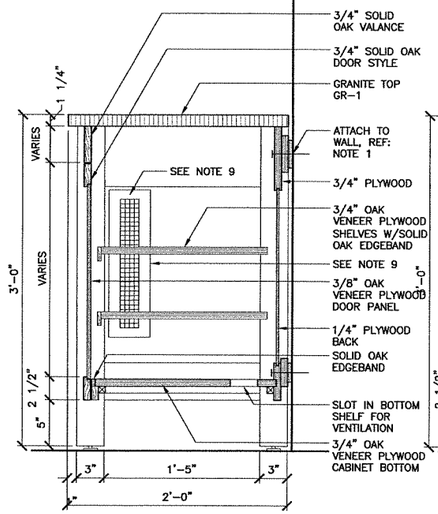
A A-406 DETAIL SECTION FROM TOP
SCALE: 1 1/2" = 1'-0"



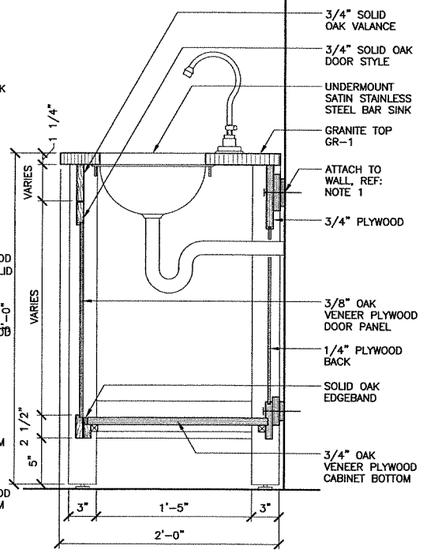
B A-406 SIDE ELEVATION
SCALE: 1 1/2" = 1'-0"



C A-406 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



D A-406 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



E A-406 DETAIL SECTION
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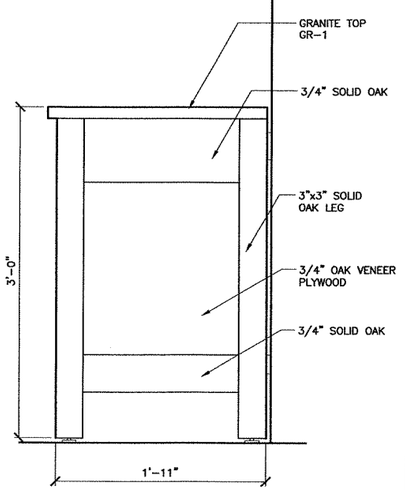

F A-406 SIDE ELEVATION
SCALE: 1 1/2" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2369 ARKANSAS 8.15.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

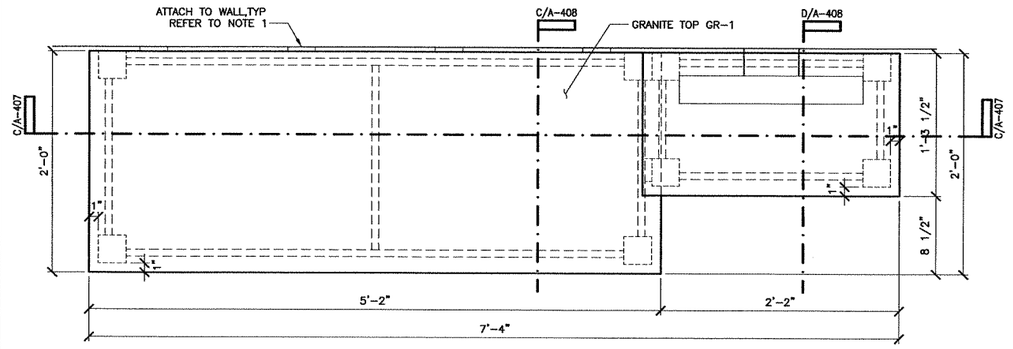
West Helena, Arkansas
AHTD Job No. 110536

MILLWORK DETAILS COFFEE BAR-KIOSK

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-406
REV	0

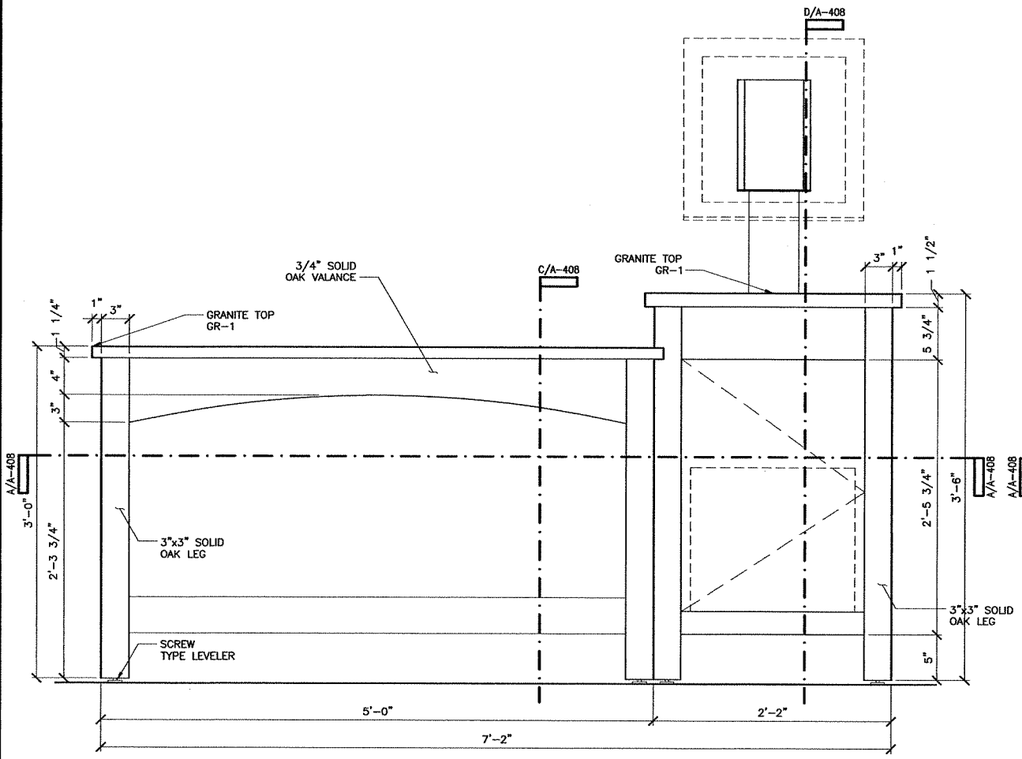
69 OF 120



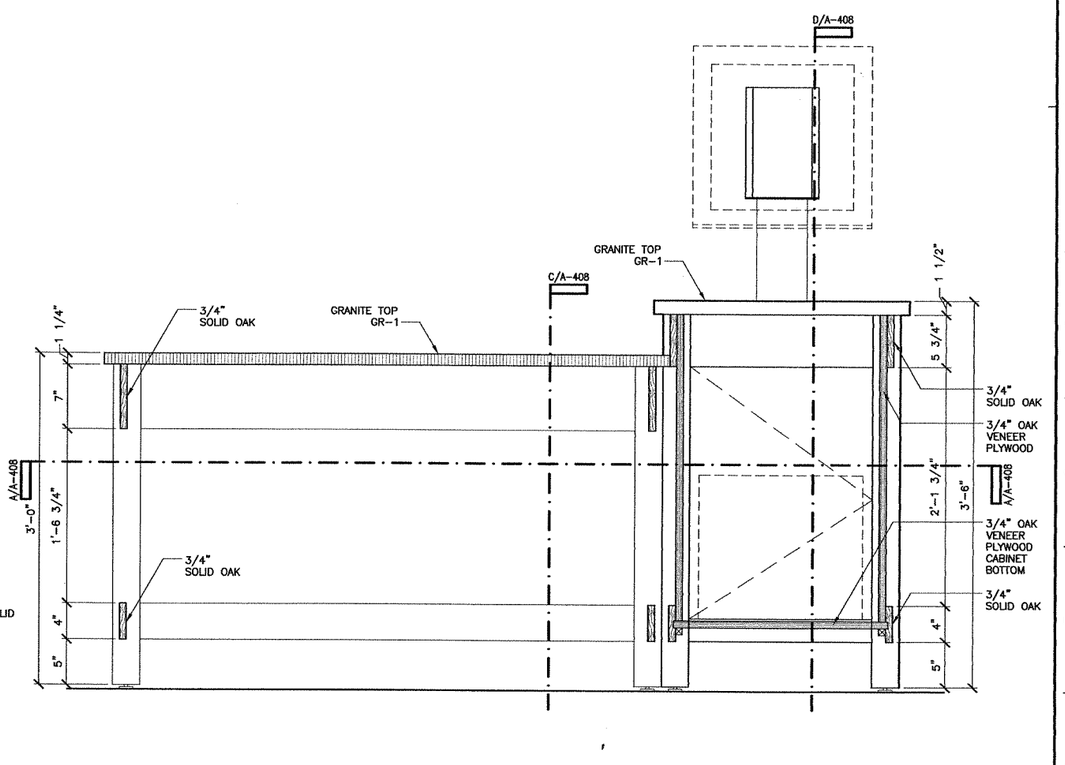
A A-407 ENLARGED PLAN
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

1. SECURELY ATTACH UNIT TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND. DO NOT CAULK BETWEEN GRANITE TOP AND WALL FINISH MATERIAL.
2. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
3. CABINET DOOR HINGES SHALL BE CONCEALED, SELF CLOSING TYPE.
4. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
5. CABINET DOOR PANEL AND CABINET SIDE PANEL GRAIN SHALL RUN VERTICALLY.
6. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
7. ADJUSTABLE SHELVING IS PROVIDED FOR AUDIO-VISUAL EQUIPMENT. COORDINATE WITH AV INSTALLER TO CUT CABINET BACK AS REQUIRED FOR CABLE ENTRY.
8. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.
9. 2-1/4" X 12" (4-1/2" X 14" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.
10. 4" X 10" (6-3/4" X 12-3/4" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.



B A-407 FRONT ELEVATION
SCALE: 1 1/2" = 1'-0"



C A-407 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

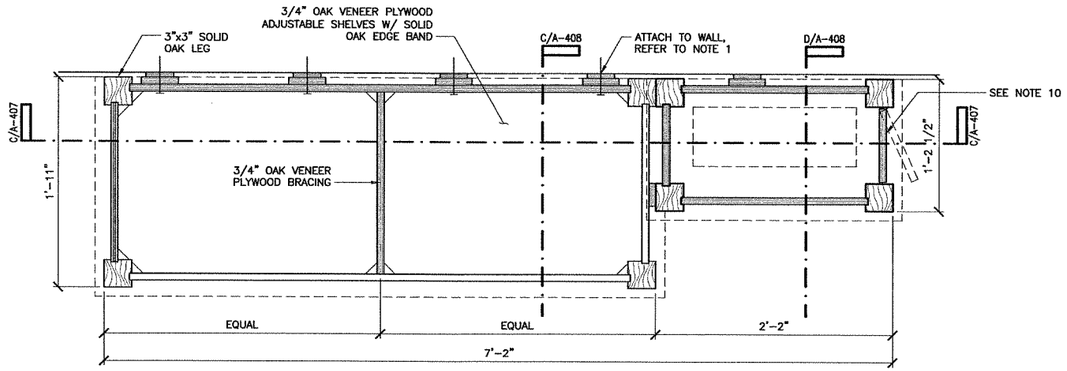
West Helena, Arkansas
AHTD Job No. 110536

MILLWORK DETAILS COMPUTER STATION-KIOSK

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-407
REV	0

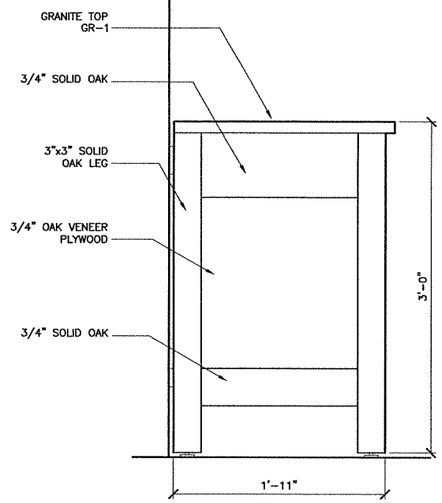
70 OF 120



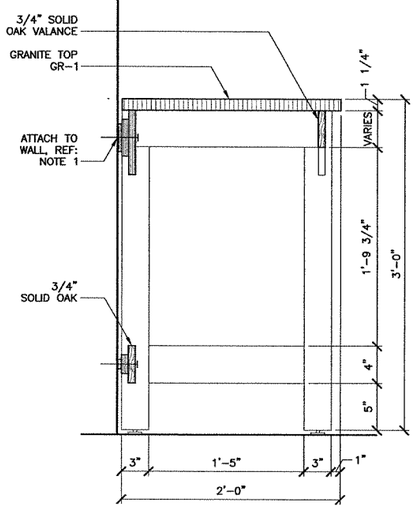
A A-408 DETAIL SECTION FROM TOP
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

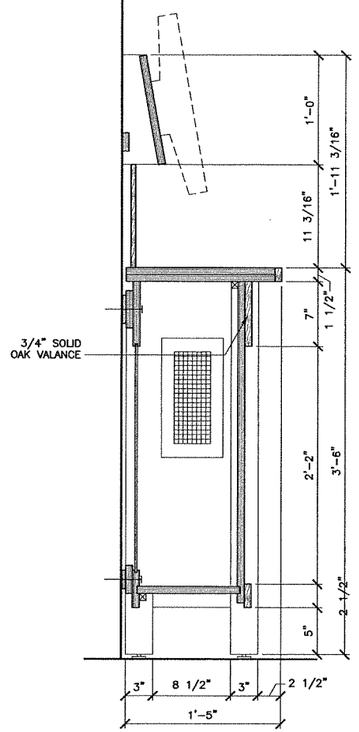
1. SECURELY ATTACH UNIT TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND. DO NOT CAULK BETWEEN GRANITE TOP AND WALL FINISH MATERIAL.
2. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
3. CABINET DOOR HINGES SHALL BE CONCEALED, SELF CLOSING TYPE.
4. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
5. CABINET DOOR PANEL AND CABINET SIDE PANEL GRAIN SHALL RUN VERTICALLY.
6. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
7. ADJUSTABLE SHELVING IS PROVIDED FOR AUDIO-VISUAL EQUIPMENT. COORDINATE WITH AV INSTALLER TO CUT CABINET BACK AS REQUIRED FOR CABLE ENTRY.
8. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.
9. 2-1/4" X 12" (4-1/2" X 14" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.
10. 4" X 10" (6-3/4" X 12-3/4" OVERALL) FLUSH MOUNT EGG CRATE VENT BY WHITTINGTON OR EQUAL. UNFINISHED RED OAK STAINED TO MATCH CABINET.



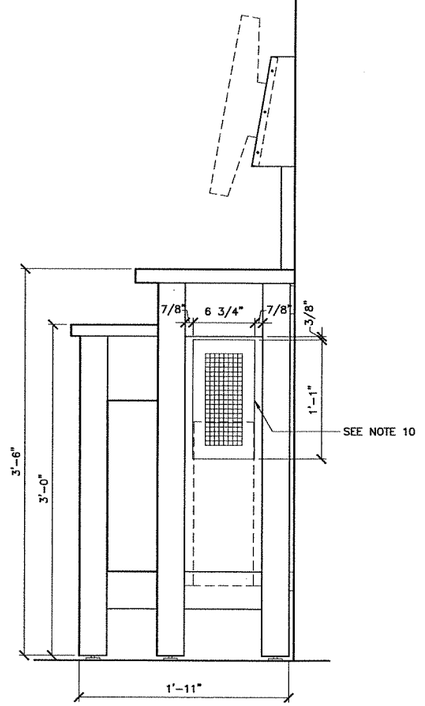
B A-408 SIDE ELEVATION
SCALE: 1 1/2" = 1'-0"



C A-408 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



D A-408 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



E A-408 SIDE ELEVATION
SCALE: 1 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS
SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MILLWORK DETAILS COMPUTER STATION-KIOSK

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-408
REV	0

71 OF 120

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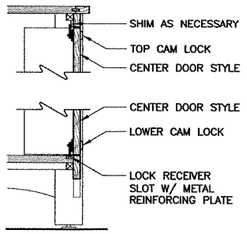
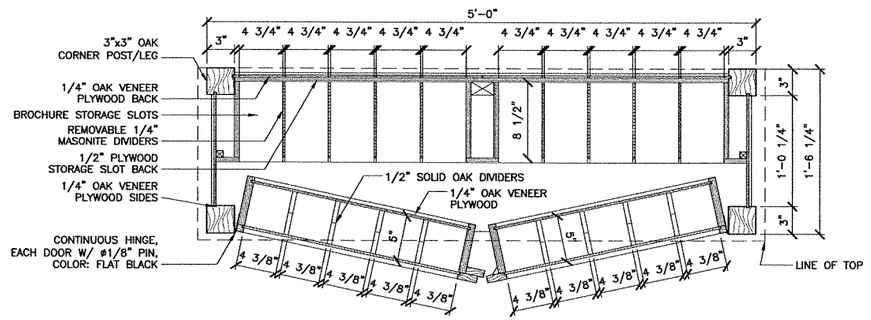
GENERAL NOTES:

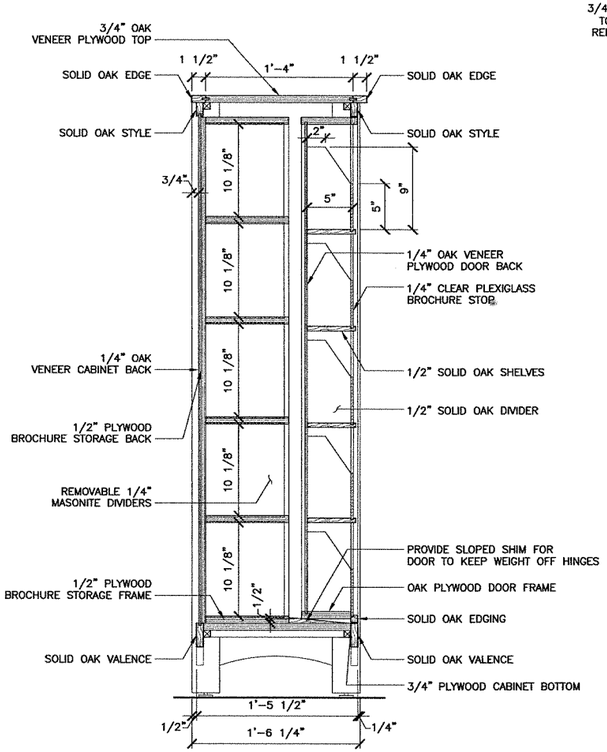
1. COORDINATE LEFT OR RIGHT OVERHANGING LIP OF CABINET TOP DEPENDANT ON FINAL INSTALLED LOCATION IN BANKS OF THREE BROCHURE HOLDER UNITS. REFER TO SHEET A-107 FOR INSTALLED LOCATIONS OF UNITS.
2. UNITS INSTALLED IN MULTIPLE BANKS SHALL BE ALIGNED AND ADJUSTED AND SCREWED TOGETHER TO ACT AS A SINGLE UNIT.
3. UNITS INSTALLED BACK-TO-BACK SHALL BE SCREWED TOGETHER.
4. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
5. PLEXIGLASS RABBIT SHALL BE SIZED AND PLEXIGLASS SHALL BE TRIMMED AND FIT TO ALLOW EASY LIFTING IN SLOT FOR DUSTING.
6. INACTIVE DOOR SHALL BE SECURED AT THE TOP AND BOTTOM WITH A CONCEALED MECHANISM.
7. EQUIP DOORS WITH RAMPS TO MAINTAIN ALIGNMENT WHEN CLOSED AND RELIEVE SHEAR ON CONTINUOUS HINGE.
8. KEY ALL CAM LOCKS ALIKE OR PROVIDE MASTER KEY.
9. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
10. CABINET BACK AND CABINET SIDE GRAIN SHALL BE RUN VERTICAL.
11. PROVIDE (1) REGION IDENTIFIER SIGN FOR EACH INSTALLED BROCHURE CABINET. REFER TO SHEET A-413 FOR SIGN DETAILS.
12. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
13. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.



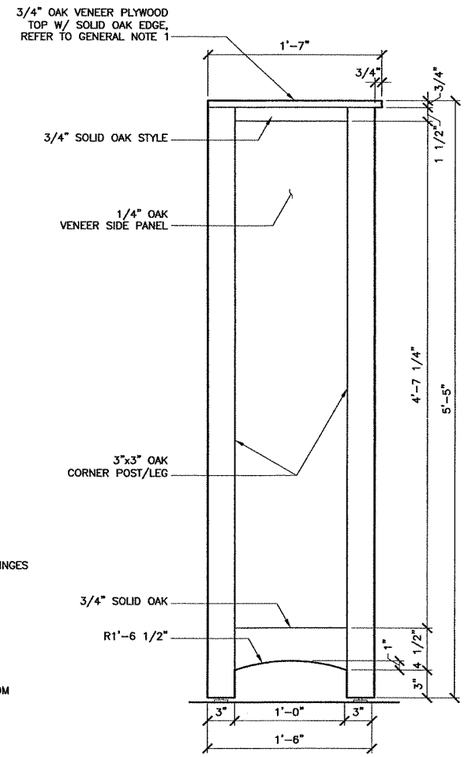
E A-409 CAM LOCK DETAIL
SCALE: 1 1/2" = 1'-0"



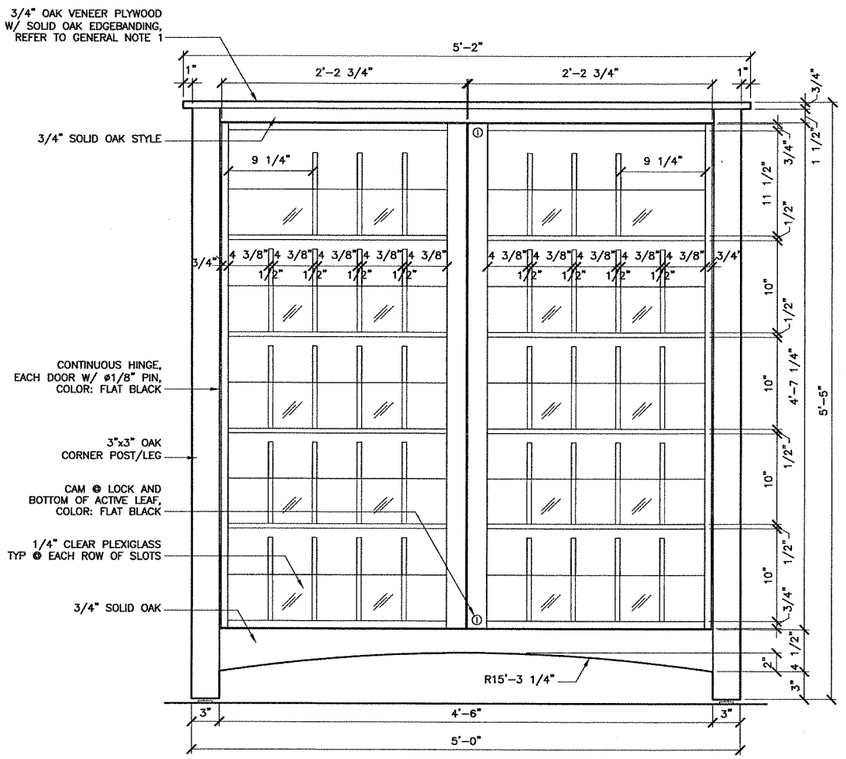
B A-409 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



D A-409 DETAIL SECTION
SCALE: 1 1/2" = 1'-0"



C A-409 SIDE ELEVATION
SCALE: 1 1/2" = 1'-0"



A A-409 FRONT ELEVATION
SCALE: 1 1/2" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT NO. 2365 ARKANSAS 8-15-11

SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECTS ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS BROCHURE CABINET

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-409
REV	0
	72 OF 120

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A-409.dwg Saved: 8/12/2011 3:53:43 PM By: BREDEHOEFTMS
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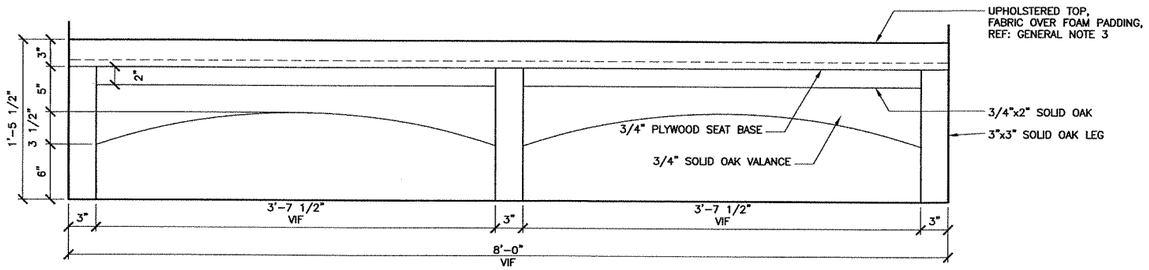
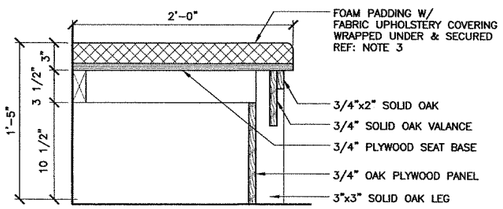
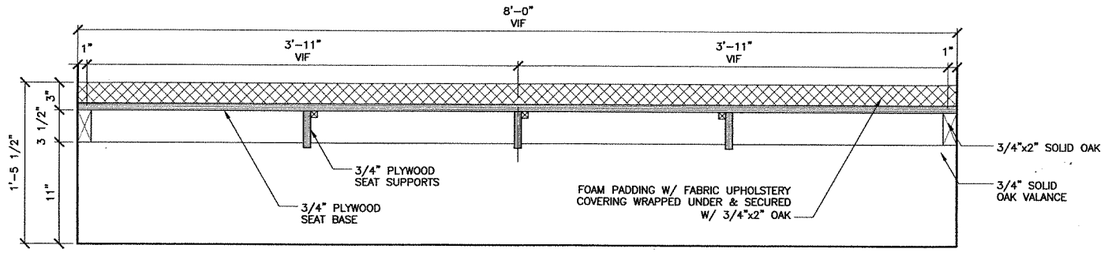


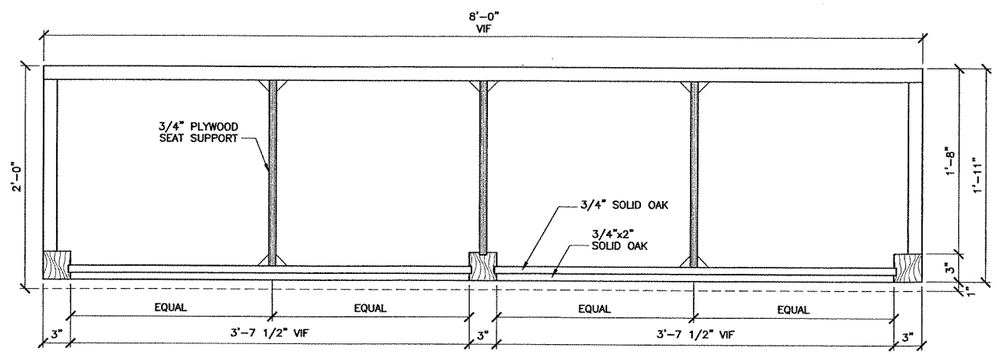
D BUILT-IN BENCH, FRONT ELEVATION
A-410 SCALE: 1 1/2" = 1'-0"



C BENCH END SECTION
A-410 SCALE: 1 1/2" = 1'-0"



B BUILT-IN BENCH, FRONT SECTION
A-410 SCALE: 1 1/2" = 1'-0"



A BUILT-IN BENCH, TOP SECTION
A-410 SCALE: 1 1/2" = 1'-0"

UPHOLSTERED BENCH GENERAL NOTES:

1. LIGHTLY EASE THE EDGES OF 3/4" PLYWOOD SEAT BASE TO PREVENT WEAR ON FABRIC.
2. HIGH RESILIENCE FLEXIBLE POLYURETHANE FOAM SHALL HAVE A DENSITY BETWEEN 2.7 AND 3.0 LBS PER CUBIC FOOT AND A FIRMNESS (INDENTION-LOAD DEFLECTION) OF 55 LBS MINIMUM. FOAM SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA BUREAU OF HOME FURNISHINGS TECHNICAL BULLETIN NO. 117.
3. FABRIC SHALL BE MAHARAM, PATTERN: TRAIT 464830, COLOR: 016 ECLIPSE.
4. DO NOT GLUE PLYWOOD SEAT TO OAK FRAME. ATTACH SEAT WITH SCREWS TO ALLOW REMOVEAL FOR FUTURE RECOVERING IF NEEDED.
5. 3x3 LEGS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
6. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
7. TWO (2) BENCHES REQUIRED.
8. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2385 ARKANSAS 8-15-11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS BUILT-IN BENCH

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-410
REV	0
	73 OF 120

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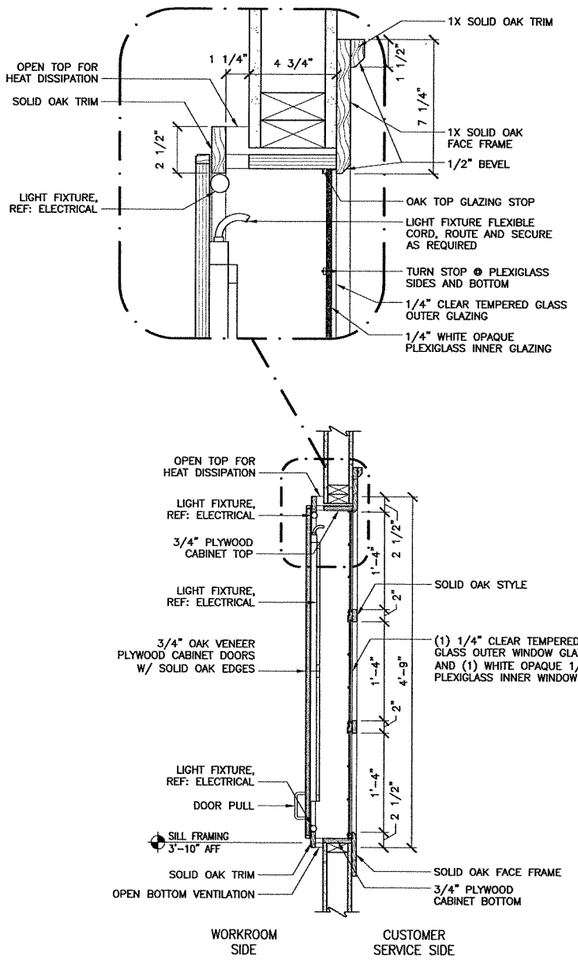
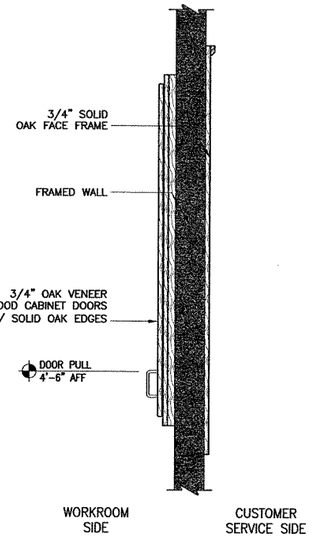
PHOTO DISPLAY GENERAL NOTES:

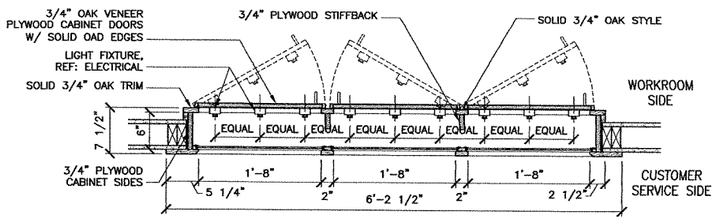
1. THIS PHOTO DISPLAY IS DESIGNED TO DISPLAY BACKLIGHTED PHOTOGRAPHS. PHOTOS TO BE DISPLAYED WILL BE 16" x 20".
2. PHOTOS WILL BE SANDWICHED BETWEEN 1/4" CLEAR TEMPERED GLASS OUTER GLAZING AND 1/4" WHITE OPAQUE PLEXIGLASS INNER GLAZING. PHOTOGRAPHS WILL BE PROVIDED BY OWNER FOR INSTALLATION PRIOR TO OPENING THE BUILDING TO THE PUBLIC.
3. LIGHT FIXTURE CORDS SHALL BE APPROPRIATELY ROUTED AND SECURED INSIDE OF CABINET TO AVOID TWISTING AND CRIMPING.
4. PROVIDE (3) SELF-CLOSING, CONCEALED CABINET DOOR HINGES PER CABINET DOOR.
5. PROVIDE STANDARD LIGHT SWITCH ON WORKROOM WALL OUTSIDE OF CABINET FOR BACKLIGHTS.
6. PRIME AND PAINT ALL DISPLAY CABINET INTERIOR SURFACES W/ HIGH REFLECTIVITY WHITE PAINT.
7. ALL EXTERIOR SURFACES SHALL BE SANDED SMOOTH, STAINED AND SEALED.



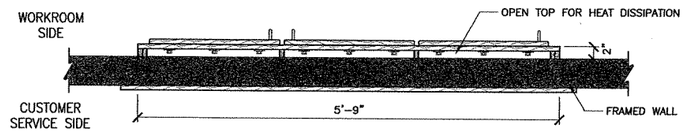
A A-411 SIDE SECTION
SCALE: 1" = 1'-0"



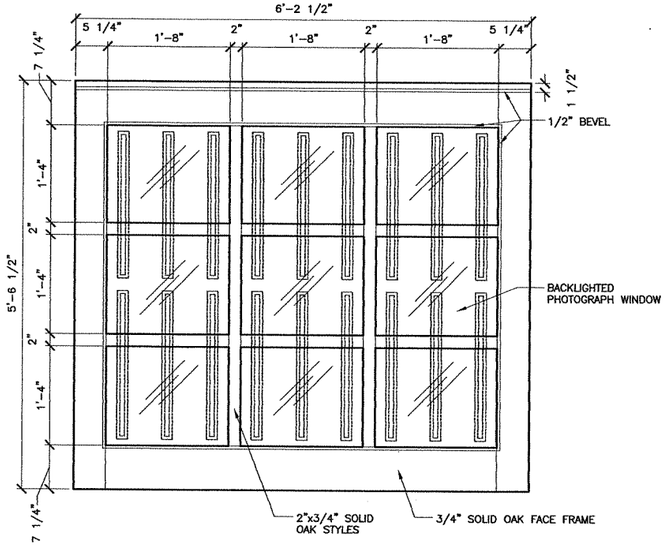
B A-411 SIDE VIEW
SCALE: 1" = 1'-0"



E A-411 TOP SECTION
SCALE: 1" = 1'-0"



D A-411 TOP VIEW
SCALE: 1" = 1'-0"



C A-411 FRONT ELEVATION
SCALE: 1" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS PHOTO DISPLAY

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-411
REV	0
	74 OF 120

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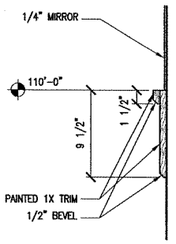
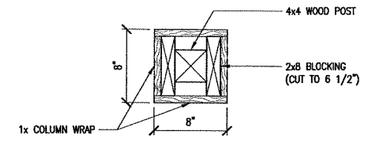
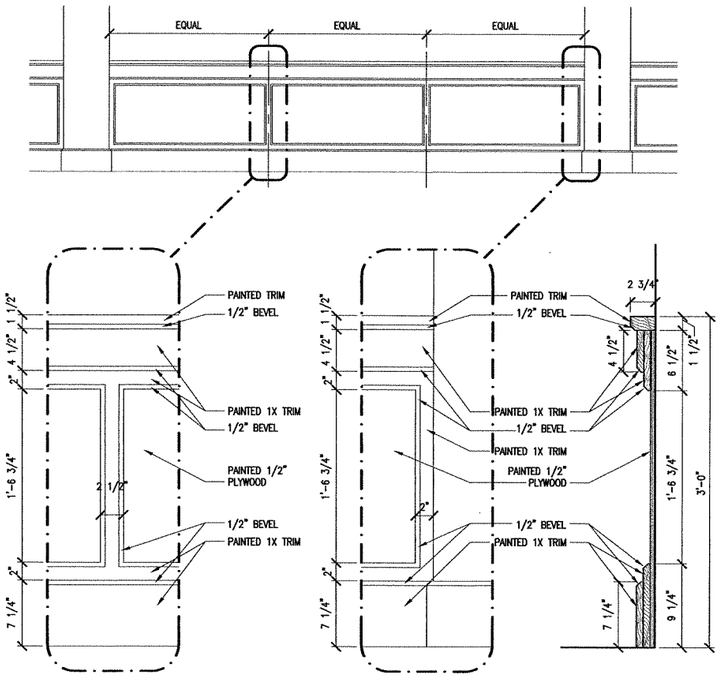


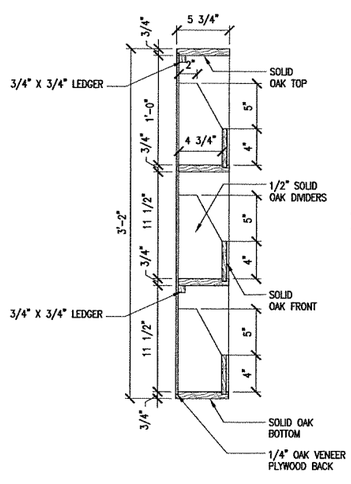
D A-412 MIRROR TRIM DETAIL
SCALE: 1 1/2" = 1'-0"



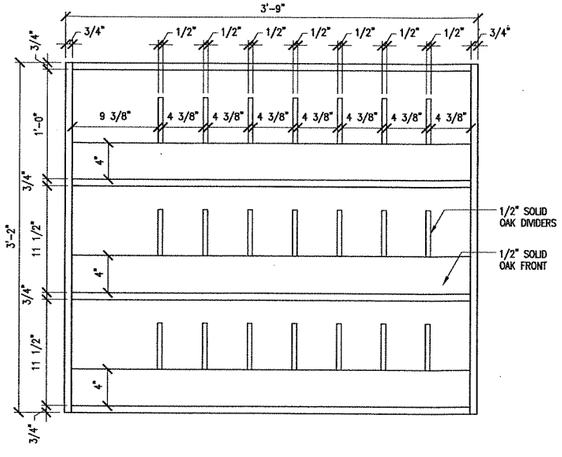
C A-412 TYPICAL COLUMN DETAIL
SCALE: 1 1/2" = 1'-0"



B A-412 WAINSCOT DETAILS
SCALE: 1 1/2" = 1'-0"



SIDE SECTION



FRONT VIEW

A A-412 WALL MOUNTED BROCHURE HOLDER
SCALE: 1 1/2" = 1'-0"

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8/15/11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MILLWORK DETAILS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-412
REV	0

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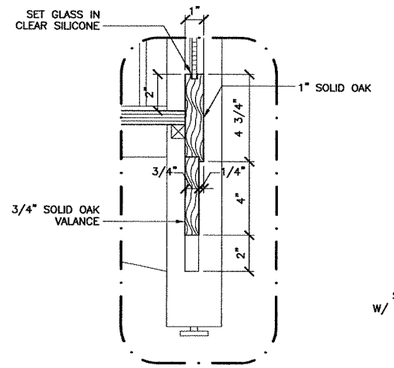
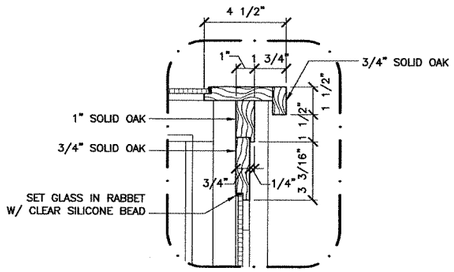
GENERAL NOTES:

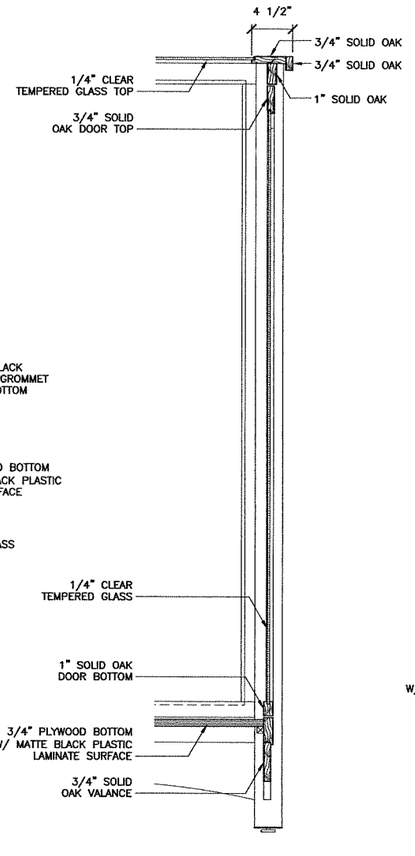
1. PROVIDE (4) SETS OF (3) DISPLAY BLOCKS FOR (4) MUSEUM DISPLAY CASES. BLOCKS SHALL BE CONSTRUCTED OF 3/4" PLYWOOD, COVERED ALL SIDES EXCEPT BOTTOM W/ MATTE BLACK PLASTIC PLASTIC LAMINATE TO MATCH DISPLAY CASE BOTTOM. EACH SET OF DISPLAY BLOCKS SHALL CONSIST OF:
   - (1) BLOCK 12"x12"x12" TALL
   - (1) BLOCK 12"x12"x24" TALL
   - (1) BLOCK 12"x12"x36" TALL
   - (TOTAL OF 16 BLOCKS FOR EACH SIZE)
2. MUSEUM CASE GLASS MAY BE INSTALLED ON-SITE FOLLOWING FINAL INSTALLATION OF UNITS AT NO ADDITIONAL COST TO THE OWNER.
3. CAM LOCKS FOR THE DISPLAY CASES SHALL BE KEYED ALIKE OR MASTER KEY SHALL BE PROVIDED TO THE OWNER.
4. REFER TO SHEET A-107 FOR FINAL INSTALLED LAYOUT OF MUSEUM CASES.
5. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED UNLESS OTHERWISE NOTED.



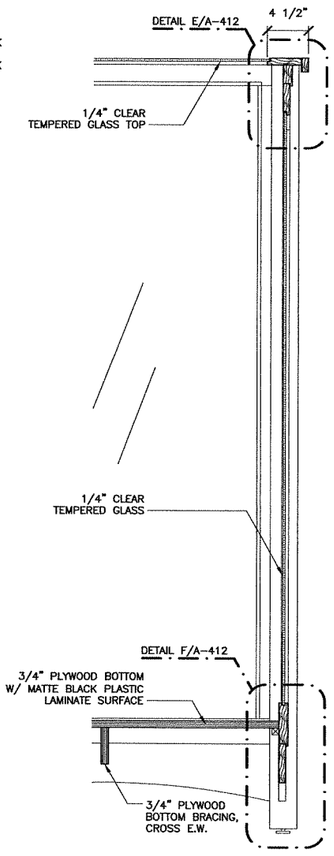
F A-413 DETAIL
SCALE: 3" = 1'-0"



E A-413 DETAIL
SCALE: 3" = 1'-0"

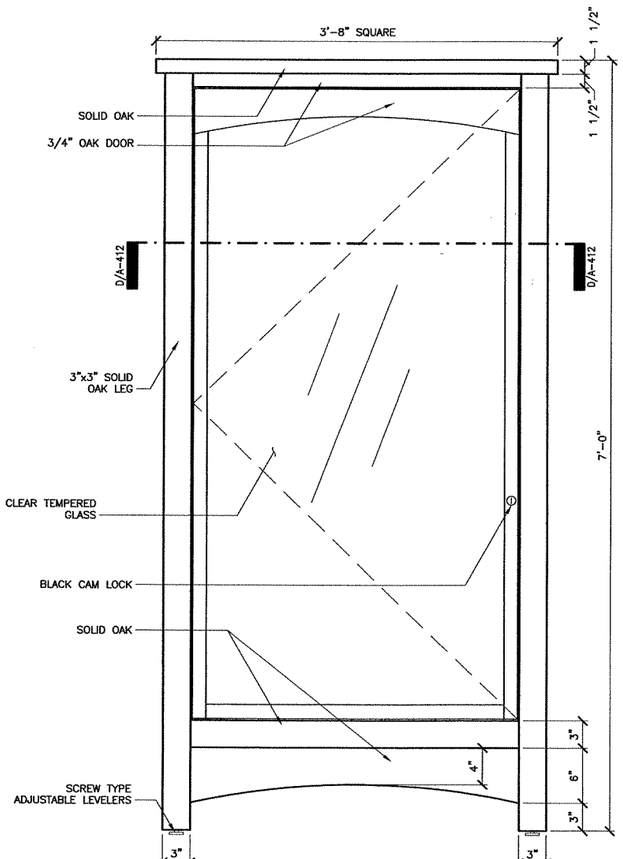


D A-413 MUSEUM DISPLAY CASE PLAN SECTION
SCALE: 1 1/2" = 1'-0" REF: A/A-416



C A-413 MUSEUM DISPLAY CASE SECTION @ DOOR
SCALE: 1 1/2" = 1'-0" REF: D/A-412

B A-413 MUSEUM DISPLAY CASE CABINET SECTION
SCALE: 1 1/2" = 1'-0" REF: D/A-412



A A-413 MUSEUM DISPLAY CASE FRONT (DOOR) ELEVATION
SCALE: 1 1/2" = 1'-0"

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(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 9.15.11

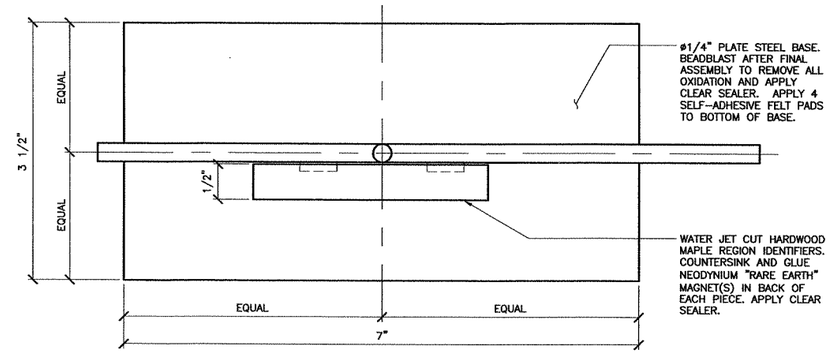
REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
MILLWORK DETAILS MUSEUM DISPLAY CASE

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-413
REV	0

76 OF 120

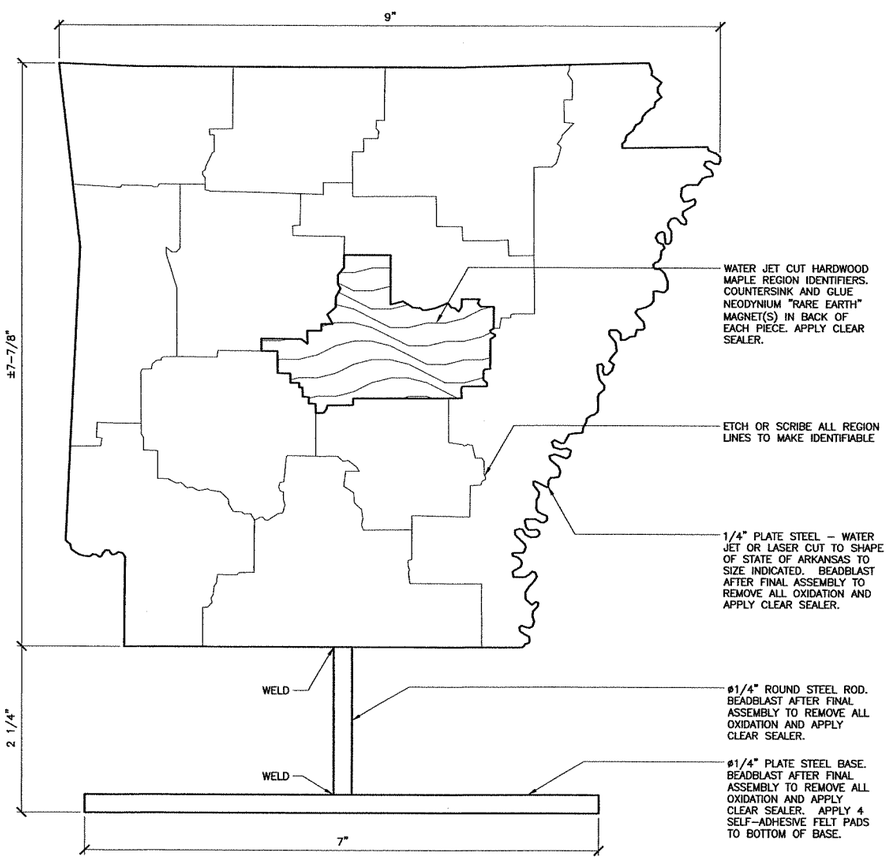


A A-414 TOP OF SIGN
SCALE: FULL SIZE

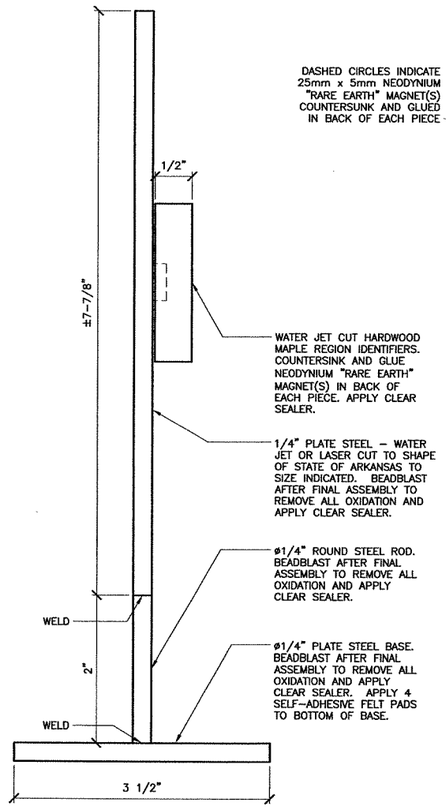
GENERAL NOTES:
1. AUTOCAD FILES OF STATE AND REGIONS ARE AVAILABLE FROM THE ARCHITECT FOR USE WITH CAD/CAM FABRICATION PROCESSES.
2. GENERAL CONTRACTOR SHALL PROVIDE ONE COMPLETE SIGN W/ ALL 12 REGION PIECES PER BROCHURE HOLDER DESCRIBED ON SHEET A-408.
3. FABRICATION PROCESS SHALL PROVIDE ADEQUATE CLEARANCES AND TOLERANCES TO ALLOW ALL 12 REGION PIECES TO BE PLACED ON SIGN SIMULTANEOUSLY WITHOUT DISTORTION.

ARKANSAS REGIONAL TOURIST ASSOCIATIONS:
(LISTED FOR INFORMATION ONLY)

1. NORTHWEST ARKANSAS TOURISM ASSOCIATION
2. OZARK MOUNTAIN REGION
3. OZARK GATEWAY TOURIST COUNCIL
4. ARKANSAS DELTA BYWAYS REGION
5. WESTERN ARKANSAS' MOUNTAIN FRONTIER
6. ARKANSAS RIVER VALLEY TRI-PEAKS TOURIST ASSOCIATION
7. GREERS FERRY LAKE AND LITTLE RED RIVER ASSOCIATION
8. HEART OF ARKANSAS TRAVEL ASSOCIATION
9. DIAMOND LAKES TRAVEL ASSOCIATION
10. ARKANSAS' LAND OF LEGENDS TRAVEL ASSOCIATION
11. ARKANSAS' GREAT SOUTHWEST RECREATIONAL ASSOCIATION
12. ARKANSAS' SOUTH TOURISM ASSOCIATION



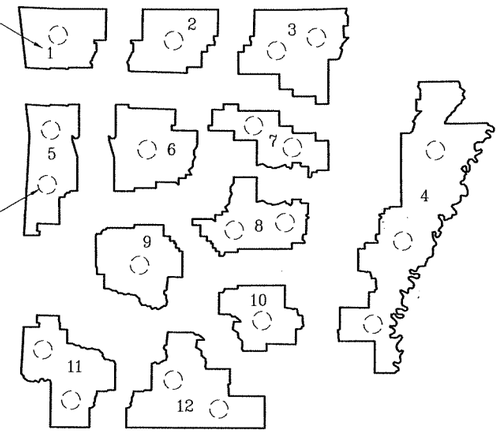
B A-414 FRONT OF SIGN
SCALE: FULL SIZE



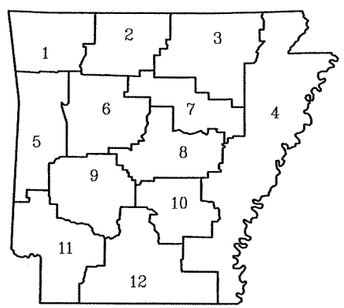
C A-414 SIDE OF SIGN
SCALE: FULL SIZE

NUMBERS ARE INDICATED ON THIS DRAWING FOR INFORMATIONAL PURPOSES ONLY. NUMBERS SHALL NOT APPEAR ON FINISHED PRODUCT.

DASHED CIRCLES INDICATE 25mm x 5mm NEODYNIUM "RARE EARTH" MAGNET(S) COUNTERSUNK AND GLUED IN BACK OF EACH PIECE



D A-414 ARKANSAS TOURIST REGIONS MAP (EXPLODED)
SCALE: NONE



E A-414 ARKANSAS TOURIST REGIONS MAP
SCALE: NONE

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8-15-11

REGISTERED ARCHITECTS SAIC Energy, Environment & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

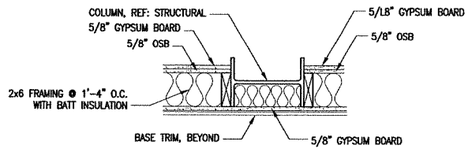
West Helena, Arkansas
AHTD Job No. 110536

ARKANSAS TOURIST REGION SIGNAGE

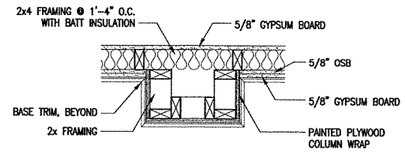
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-414
REV	0
77 OF 120	

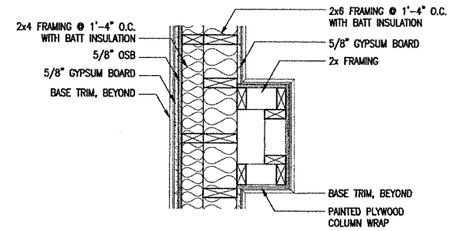
Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESIGN\40_CAD\A\0160_A-414.dwg Saved: 8/12/2011 3:55:48 PM By: BREDEHOEFTMS
Xrefs: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\0160_G-BS01.dwg P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESIGN\40_CAD\0160_A-DT06.dwg



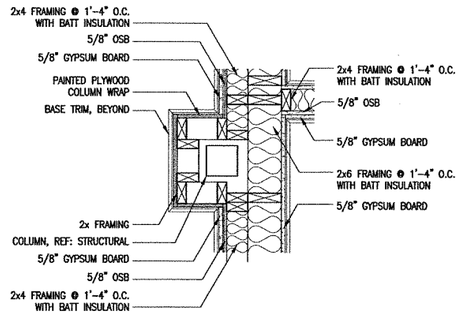
L A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



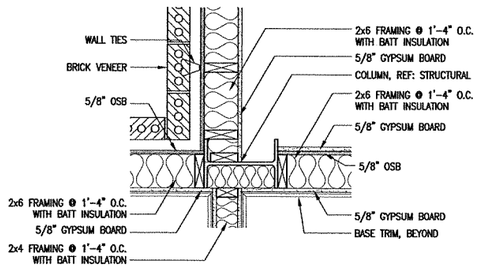
K A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



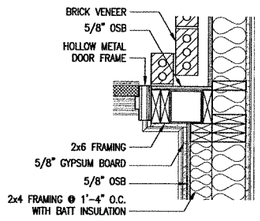
J A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



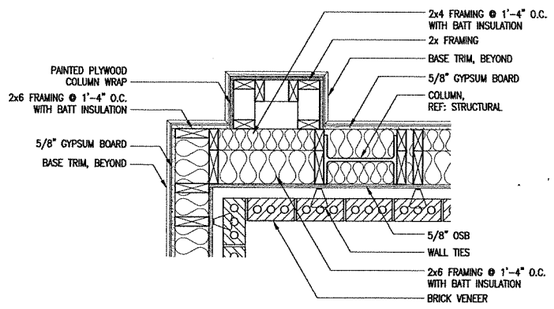
H A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



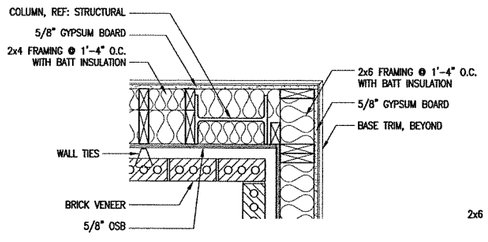
G A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



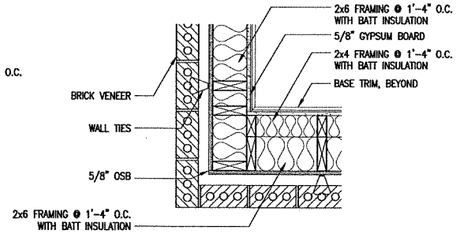
F A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



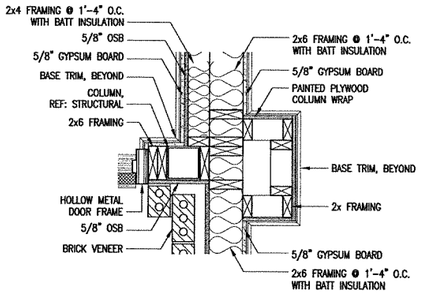
E A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



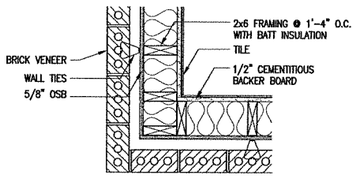
D A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



C A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



B A-415 PLAN DETAIL
SCALE: 1" = 1'-0"



A A-415 PLAN DETAIL
SCALE: 1" = 1'-0"

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Lowell, Arkansas
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(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D

JOSEPH S. ROBERTS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
8-15-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
PLAN DETAILS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-415
REV	0

78 OF 120

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESGN\40_CAD\A\0160_A-415.dwg Saved: 8/12/2011 3:56:08 PM By: BREDEHOEFTMS
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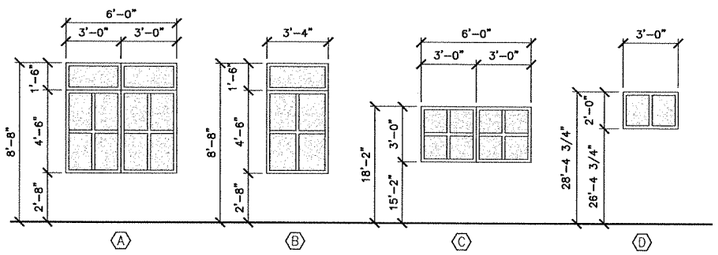
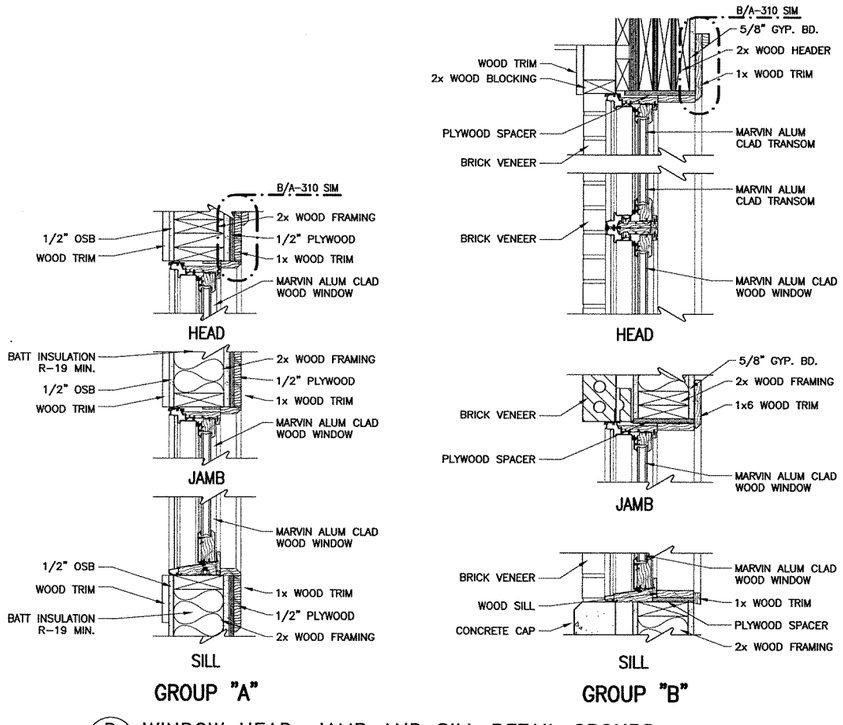
WINDOW SCHEDULE

WINDOW					FRAME	DETAILS	
WINDOW NO.	WINDOW SIZE	MF'GR	WINDOW DESCRIPTION	WINDOW ELEV.	FRAME MATERIAL	DETAIL GROUP	REMARKS
A	6'-0" x 6'-0"	MARVIN	METAL CLAD WOOD FIXED GLASS	A	WOOD	B	
B	3'-4" x 6'-0"	MARVIN	METAL CLAD WOOD FIXED GLASS	B	WOOD	B	
C	6' -0" x 3'-0"	MARVIN	METAL CLAD WOOD FIXED GLASS	C	WOOD	B	
D	3'- 0" x 2'-0"	MARVIN	METAL CLAD WOOD FIXED GLASS	D	WOOD	A	

NOTE:
WINDOW DIMENSIONS ARE PROVIDED FOR CLARITY ONLY. THEY ARE SUITABLE FOR CONVEYING ARCHITECTURAL INTENT AND PRICING ONLY. VERIFY ACTUAL MEASUREMENTS IN FIELD PRIOR TO ORDERING WINDOW UNITS.



C A-501 WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"

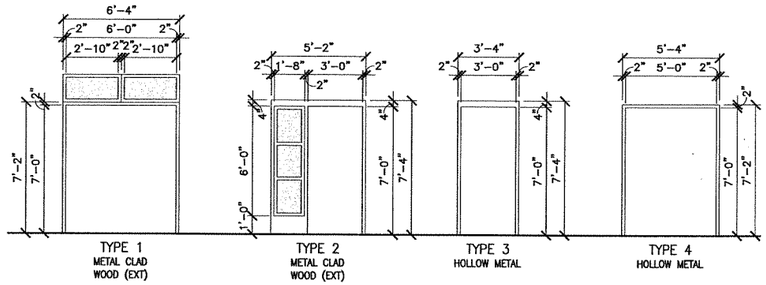


D A-501 WINDOW HEAD, JAMB AND SILL DETAIL GROUPS
SCALE: 1-1/2"= 1'-0"

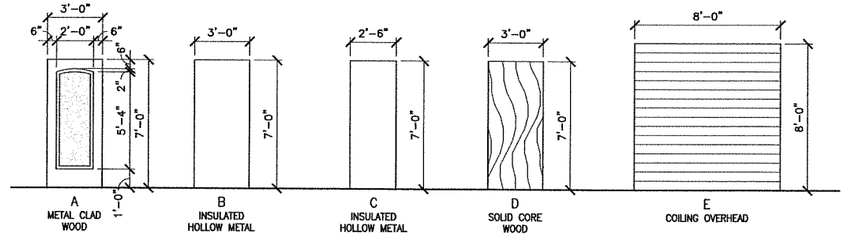
DOOR SCHEDULE

DOOR					FRAME		DETAILS				
DOOR NO.	DOOR SIZE	MF'GR	DOOR DESCRIPTION	DOOR ELEV.	FRAME TYPE	FRAME MATL.	FIRE RATING	STC RATING	HRDWR SET	DETAIL GROUP	REMARKS
101A	PAIR 3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	A	1	WOOD	---	NSR	3	H	
101B	PAIR 2'-6"x7'-0"x2"	NSM	INSULATED HOLLOW METAL	C	4	STEEL	---	NSR	7	E	
101C	PAIR 2'-6"x7'-0"x2"	NSM	INSULATED HOLLOW METAL	C	4	STEEL	---	NSR	7	E	
103A	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	A	2	WOOD	---	NSR	4	G	
103B	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	A	2	WOOD	---	NSR	4	G	
104	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	1	C	
105	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	2	A	
106	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	1	C	
107	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	3	STEEL	---	56	5	A	
108	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	3	STEEL	---	NSR	2	B	
109	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	3	STEEL	---	56	5	C	
110A	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	6	F	
110B	8'-0"x8'-0"x2"	NSM	COILING OVERHEAD	E	-	STEEL	---	NSR	BY MFGR	J	NOTE 3
110C	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	3	STEEL	---	NSR	8	D	
111A	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	A	2	WOOD	---	NSR	4	G	
111B	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	A	2	WOOD	---	NSR	4	G	
112	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	1	C	
113	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	2	A	
114	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	3	STEEL	---	NSR	1	C	

DOOR SCHEDULE NOTES:
1. NSM = NO SPECIFIC MANUFACTURER
2. NSR = NO SPECIFIC REQUIREMENT
3. W/ COMMERCIAL SECTIONAL DOOR OPERATOR W/ EXTERIOR KEYPAD ACTUATOR AND INTERIOR PUSHBUTTON OPERATION.
4. REFER TO SPECIFICATION SECTION 087100 FOR HARDWARE SETS.



A A-501 DOOR FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"



B A-501 DOOR ELEVATIONS
SCALE: 1/4" = 1'-0"

6' 3' 0 6'
1/4" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
DOOR & WINDOW SCHEDULE & ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-501
REV	0
	79 OF 120

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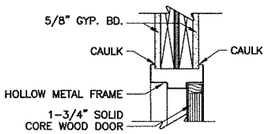
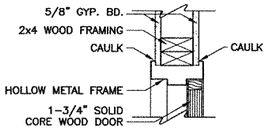
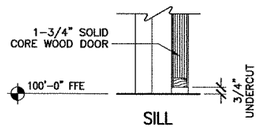


HEAD

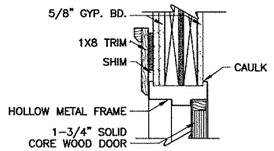


JAMB

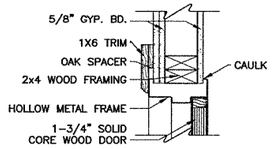


SILL

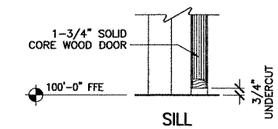
GROUP "A"



HEAD

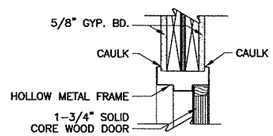


JAMB

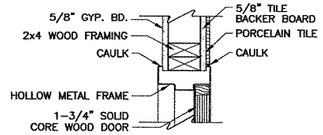


SILL

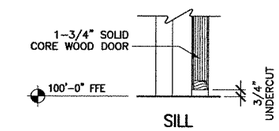
GROUP "B"



HEAD

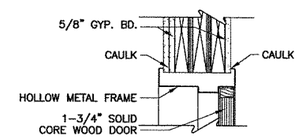


JAMB



SILL

GROUP "C"



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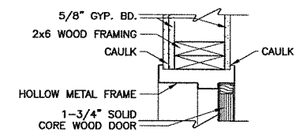

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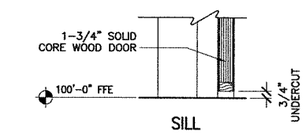

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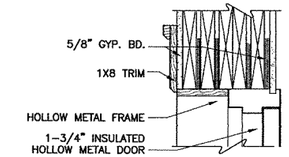

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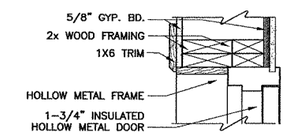

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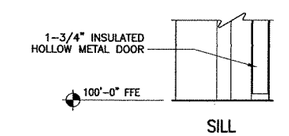

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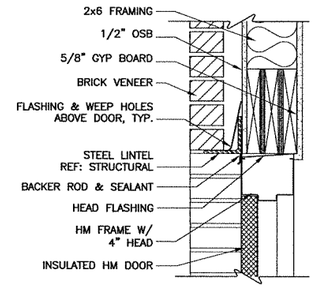

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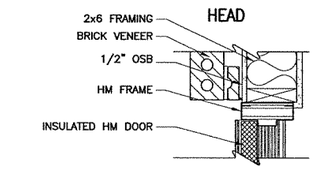

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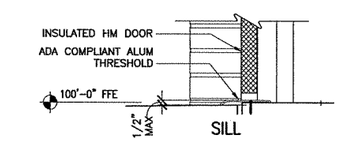

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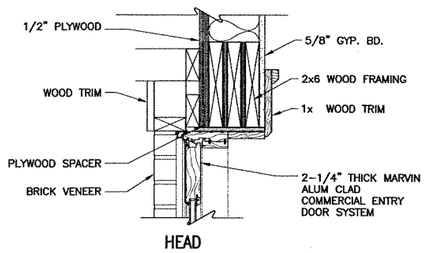

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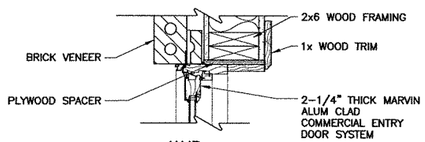

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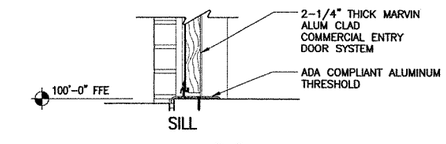

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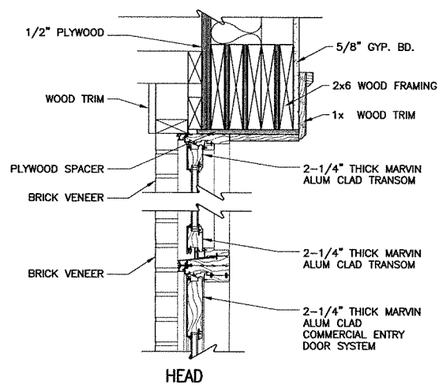

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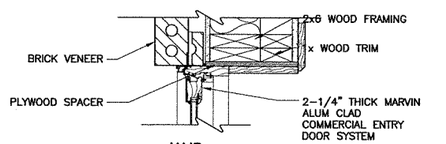

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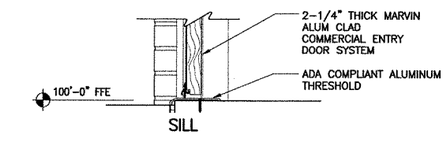

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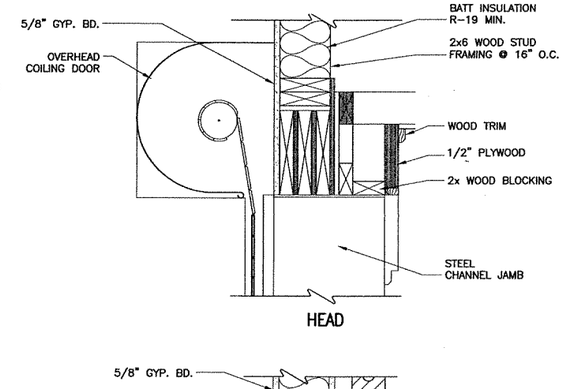

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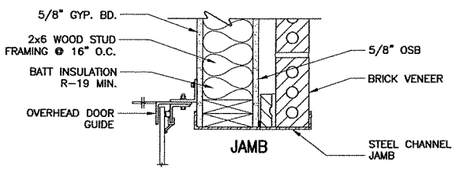

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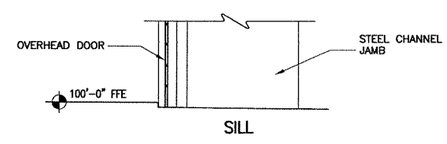

SILL

GROUP "J"

A (A-502) DOOR HEAD, JAMB AND SILL DETAIL GROUPS

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

1' 6" 0 1'

1 1/2" = 1'-0"

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

SAIC Energy, Environment & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

HEAD JAMB AND SILL DETAILS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-502
REV	0
	80 OF 120

Filename: P:\LOW\FAC\6351016000_ahtdwesthelena\20_DESIGN\40_CAD\A\0160_A-502.dwg Saved: 8/12/2011 3:57:01 PM By: BRDEHOEFTNS
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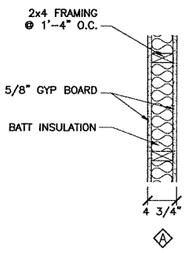

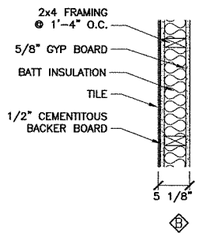

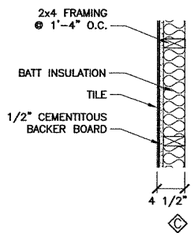

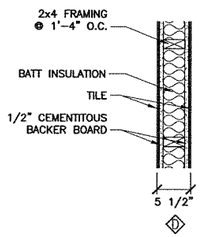

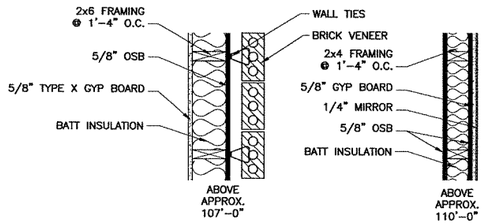

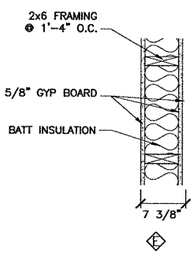

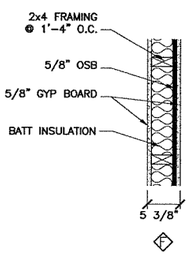

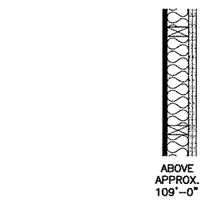

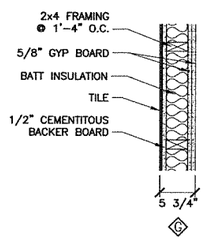

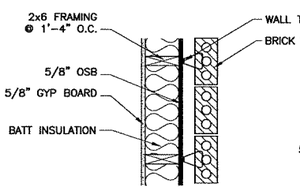

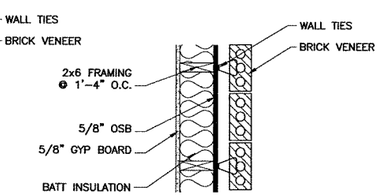

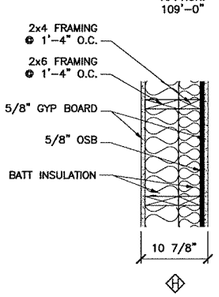

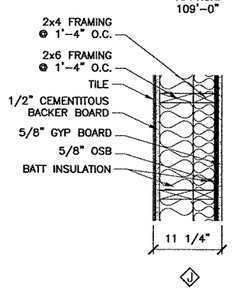

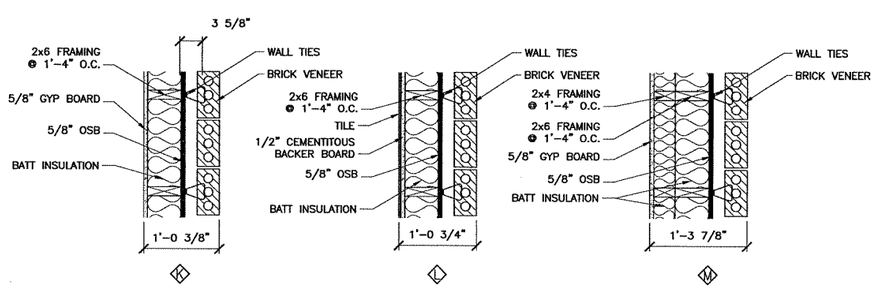

A A-503 PARTITION TYPES
SCALE: 1" = 1'-0"

NOTE: REFER TO STRUCTURAL FOR SHEAR WALL INFORMATION

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NO.	DATE	ISSUED FOR CONSTRUCTION / DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11			

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PARTITION TYPES

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-503
REV	0

INTERIOR FINISH LEGEND

SYMBOL	MATERIAL	VENDOR	PATTERN/FINISH/#	COLOR	REMARKS
FLOORING MATERIAL					
CONC-1	INTEGRALLY STAINED CONCRETE	DAVIS COLORS	LIGHT BROOM FINISH	TO BE SELECTED	
CONC-2	INTEGRALLY STAINED CONCRETE	DAVIS COLORS	LIGHT BROOM FINISH	TO BE SELECTED	
CONC-3	SEALED CONCRETE		SMOOTH FINISH	TO BE SELECTED	
CPT-1	CARPET - BROADLOOM	LEES	KENSINGTON COLLECTION, HYDE PARK GLOOS	TO BE SELECTED	
VCT-1	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS	TO BE SELECTED	12" X 12" TILE
VCT-2	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS	TO BE SELECTED	12" X 12" TILE
PFT-1	PORCELAIN FLOOR TILE	DALTILE	VERANDA SOLIDS	TO BE SELECTED	VARIED SIZES; GROUT LINE TO BE 3/16" WIDE, GT-2
PFT-2	PORCELAIN FLOOR TILE	DALTILE	VERANDA SOLIDS	TO BE SELECTED	VARIED SIZES; GROUT LINE TO BE 3/16" WIDE, GT-2
PFT-3	PORCELAIN FLOOR TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
PFT-4	PORCELAIN FLOOR TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
PFT-5	PORCELAIN FLOOR TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
HWF-1	HARDWOOD FLOORING	HARTCO COMMERCIAL	PATTERN PLUS; 5000 OAK	EPP4100 COPPER	
GT-1	GROUT	TO BE SELECTED		TO BE SELECTED	
GT-2	GROUT	TO BE SELECTED		TO BE SELECTED	
FLOOR TRANSITION MATERIAL					
TS-1	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT	BRONZE	
TS-2	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT	BRONZE	
TS-3	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT	BRONZE	
TS-4	TRANSITION STRIP	JOHNSONITE	CTA-XX-H	TO BE SELECTED	
TS-5	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC RAMP	BRONZE	
TS-6	TRANSITION STRIP	JOHNSONITE	CRS-XX-D	TO BE SELECTED	
TS-7	TRANSITION STRIP	JOHNSONITE	CRS-XX-B	TO BE SELECTED	
TS-8	TRANSITION STRIP	JOHNSONITE	CTA-XX-K	TO BE SELECTED	
BASE MATERIAL					
PTB-1	PORCELAIN TILE BASE	DALTILE	VERDANA SOLIDS	TO BE SELECTED	GROUT LINE TO BE 3/16" WIDE, GT-2
WDB-1	WOOD BASE		PAINT	TO BE SELECTED	
RB-1	RUBBER BASE	JOHNSONITE	TIGHTLOCK	TO BE SELECTED	4"H CONTINUOUS ROLL
WALL MATERIAL					
PT-1	PAINT	TO BE SELECTED	SATIN	TO BE SELECTED	
PT-2	PAINT	TO BE SELECTED	SATIN	TO BE SELECTED	
PT-3	PAINT	TO BE SELECTED	SATIN	TO BE SELECTED	
PT-4	PAINT	TO BE SELECTED	SATIN	TO BE SELECTED	
PWT-1	PORCELAIN WALL TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
PWT-2	PORCELAIN WALL TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
PWT-3	PORCELAIN WALL TILE	DALTILE	PORCEALTO GRANITI	TO BE SELECTED	12" X 12"; GROUT LINE TO BE 3/16" WIDE, GT-1; SEE NOTE #2
WDP-1	WOOD PANEL		PAINT	TO BE SELECTED	
MILLWORK MATERIAL					
PL-1	PLASTIC LAMINATE	TO BE SELECTED	TO BE SELECTED	TO BE SELECTED	
PL-2	PLASTIC LAMINATE	TO BE SELECTED	TO BE SELECTED	TO BE SELECTED	
PL-3	PLASTIC LAMINATE	TO BE SELECTED	TO BE SELECTED	TO BE SELECTED	
SS-1	SOLID SURFACE	AVONITE	FOUNDATIONS - SATIN	TO BE SELECTED	
SS-2	SOLID SURFACE	AVONITE	FOUNDATIONS - SATIN	TO BE SELECTED	
GR-1	GRANITE (RECEPTION)		TO BE SELECTED	TO BE SELECTED	SEE NOTE #1
GR-2	GRANITE (MAIN SIGN)		COLD SPRING GRANITE	TEXAS PEARL	
CEILING MATERIAL					
GYP-1	PAINTED GYP BOARD		PAINT	TO BE SELECTED	
WCD-1	WOOD CEILING DECKING		PAINT	TO BE SELECTED	TONGUE AND GROOVE
INTERIOR DOORS AND WINDOWS AND CABINETRY					
	WOOD DOORS	SHERWIN-WILLIAMS	WOOD CLASSICS	FIRST COAT: SANDING SEALER, SECOND COAT: INTERIOR STAIN (MATCH WOODGUARD HONEY 2000), THIRD COAT: WATERBORNE POLYURETHANE VARNISH (SATIN FINISH)	
	METAL DOORS			SEMI-GLOSS FINISH	SEE NOTE #3
	METAL FRAMES			SEMI-GLOSS FINISH	SEE NOTE #3
WINDOW TREATMENTS					
BL-1	BLINDS	GRABER	TRADITIONS 2" HARDWOOD BLINDS, STANDARD VALANCE	1013 HONEY MAPLE	FOR A AND B WINDOWS ONLY

INTERIOR MISCELLANEOUS					
	TOILET PARTITIONS		STAINLESS STEEL		
	SIGNAGE	AMERICAN BUILDING SPECIALTIES	1300 WOOD FRAME	PT-1/OAK-STAIN: xxx/580 BEIGE	
	WALL SWITCH HANDLES			IVORY	
	STANDARD RECEPTACLE BODIES			IVORY	CUSTOMER SERVICE AREA
	ELECTRICAL COVER PLATES-WALL			IVORY	CUSTOMER SERVICE AREA
	ELECTRICAL COVER PLATES-FLOOR			TO BE SELECTED	CUSTOMER SERVICE AREA
	FIRE EXTINGUISHER CABINETS		STAINLESS STEEL		
REMARKS:					

WHERE COLOR IS SHOWN AS BEING SPECIFIC TO ONE MANUFACTURER, AN EQUIVALENT COLOR BY ANOTHER MANUFACTURER MAY BE SUBMITTED FOR APPROVAL. MANUFACTURERS AND MATERIALS SPECIFIED ARE NOT INTENDED TO LIMIT THE SELECTION OF EQUAL COLORS FROM OTHER MANUFACTURERS. THE WORD "COLOR" AS USED HEREIN INCLUDES SURFACE COLOR AND PATTERN.

1. GRANITE TO BE SEALED WITH MANUFACTURER RECOMMENDED SEALER.
2. GROUT TO BE SEALED WITH WATER BASED PENETRATING SEALER.
3. ALL METAL DOOR AND FRAMES FOR DOORS TO BE PAINTED (SEMI-GLOSS FINISH), COLORS TO BE SELECTED.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL FINISHES				CEILINGS			KEYED NOTES
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT	
101	CUSTOMER SERVICE ARE	REF: A-106	WDB-1	PT-2, WDP-1	PT-2, WDP-1	PT-2, WDP-1	PT-2, WDP-1	GYP-1, WCD-1	PAINT	VARIES	
102	INFORMATION DESK	HWF-1	WDB-1	PT-2, WDP-1	PT-2, WDP-1	PT-2, WDP-1	PT-2, WDP-1	GYP-1, WCD-1	PAINT	VARIES	
103	VESTIBULE	PFT-1, 2	WDB-1	PT-2	PT-2	PT-2	PT-2	GYP-1	PAINT	9'-0"	
104	WOMEN'S TOILET	PFT-3, 4, 5	PTB-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	GYP-1	PAINT	9'-0"	
105	MECHANICAL CHASE	CONC-3	-	-	-	-	-	-	-	-	
106	MEN'S TOILET	PFT-3, 4, 5	PTB-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	GYP-1	PAINT	9'-0"	
107	OFFICE	CPT-1	WDB-1	PT-4	PT-4	PT-4	PT-4	GYP-1	PAINT	8'-0"	
108	WORK ROOM	VCT-1, 2, 3	RB-1	PT-4	PT-4	PT-4	PT-4	GYP-1	PAINT	8'-0"	
109	STAFF TOILET	PFT-3, 4, 5	PTB-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	GYP-1	PAINT	8'-0"	
110	STORAGE ROOM	CONC-3	RB-1	PT-3	PT-3	PT-3	PT-3	GYP-1	PAINT	VARIES	
111	VESTIBULE	PFT-1, 2	WDB-1	PT-2	PT-2	PT-2	PT-2	GYP-1	PAINT	9'-0"	
112	MEN'S TOILET	PFT-3, 4, 5	PTB-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	GYP-1	PAINT	9'-0"	
113	MECHANICAL CHASE	CONC-3	-	-	-	-	-	-	-	-	
114	WOMEN'S TOILET	PFT-3, 4, 5	PTB-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	PFT-3, 4, 5, PT-1	GYP-1	PAINT	9'-0"	
-	MAINT. BUILDING	CONC-3	-	-	-	-	-	GYP-1	PAINT	9'-10"	1

KEYED NOTES:
1. SHELVING TO BE PAINTED PT-3 SEMI-GLOSS FINISH

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201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION		

JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS 8.15.11

REGISTERED ARCHITECT SAIC Energy, Environment, & Infrastructure, LLC No. C-255 ARKANSAS

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
INTERIOR FINISH SCHEDULE

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-504
REV	0

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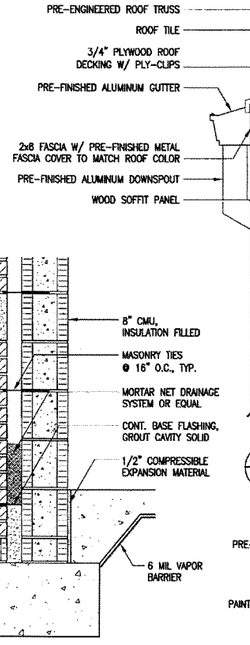
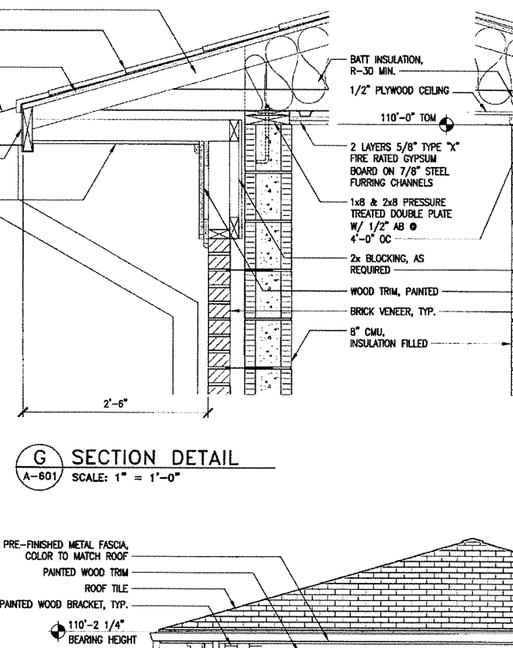
GENERAL NOTES:

1. ALL SHELVING COMPONENTS TO BE PRIMED AND PAINTED.
2. ALL EXTERIOR WOOD COMPONETS TO BE STAINED AND SEALED TO MATCH MAIN STRUCTURE EXCEPT AS OUTLINED IN NOTE 1 ABOVE.
3. PROVIDE WOOD BATTEN STRIPS TO CONCEAL JOINTS IN PLYWOOD CEILING. PRIME AND PAINT PLYWOOD CEILING AND BATTEN STRIPS.
4. REFER TO STRUCTURAL DRAWINGS FOR CMU REINFORCING REQUIREMENTS.
5. REFER TO DETAIL B/A-101 FOR BOLLARD STEEL PIPE BOLLARDS (SIMILAR). BOLLARDS OUTSIDE DOOR ONLY.
6. FE1 = 20LB 20A-120B:C BRACKET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP20 W/ STANDARD BRACKET. MOUNT W/ HANDLE @ 3'-6" AFF.

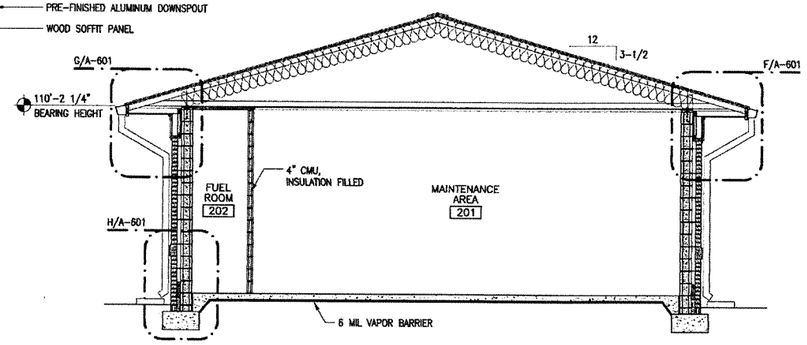


H SECTION DETAIL
A-601 SCALE: 1" = 1'-0"

G A-601 SECTION DETAIL
SCALE: 1" = 1'-0"



F A-601 SECTION DETAIL
SCALE: 1" = 1'-0"



E A-601 BUILDING SECTION
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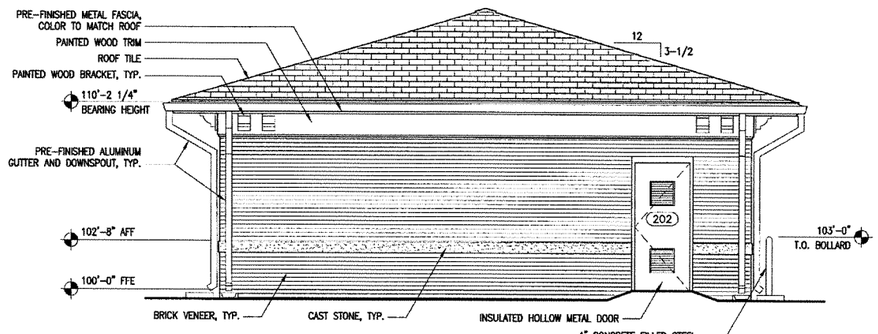
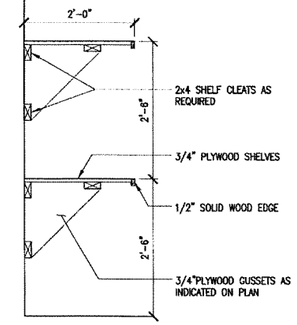
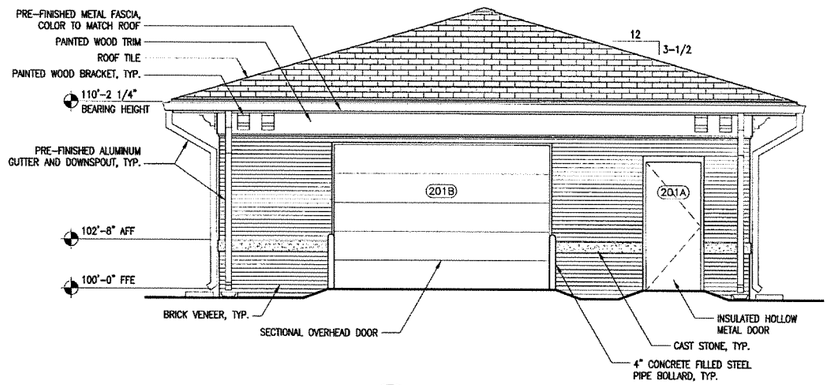


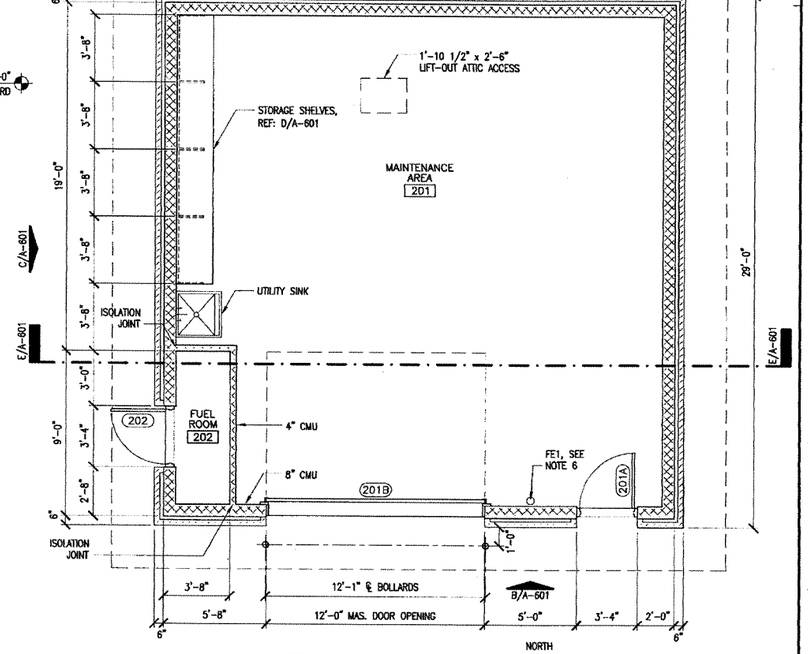
C A-601 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



D A-601 SHELVING DETAIL SECTION
SCALE: 3/4" = 1'-0"



B A-601 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



A A-601 FLOOR PLAN
SCALE: 1/4" = 1'-0"

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JOSEPH S. ROGERS REGISTERED ARCHITECT No. 2365 ARKANSAS

SAIC Energy, Environment, & Infrastructure, LLC No. C-255 REGISTERED ARCHITECT ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MAINTENANCE BUILDING

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-601
REV	0
	83 OF 120

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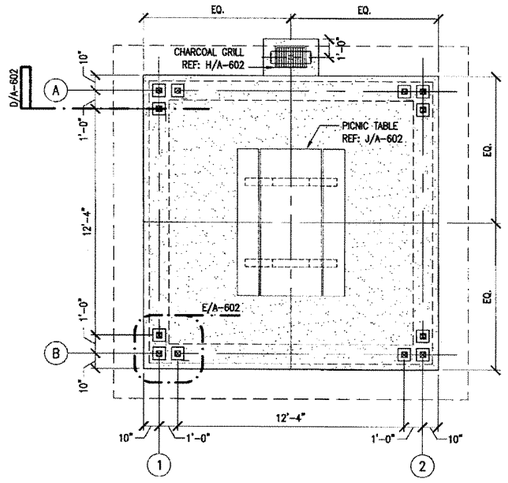
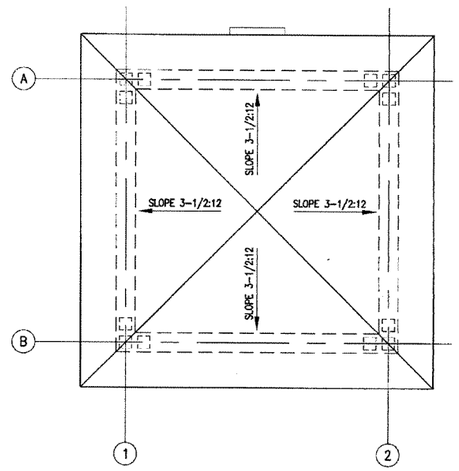
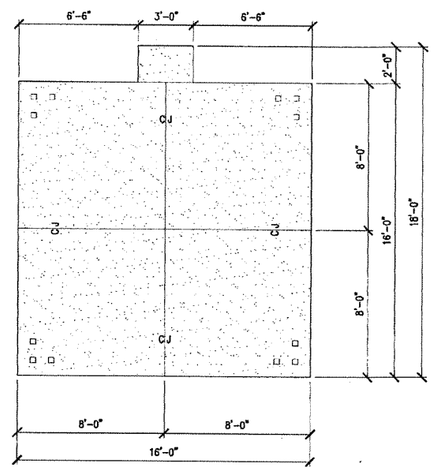


A FLOOR PLAN
A-602 SCALE: 1/4" = 1'-0"

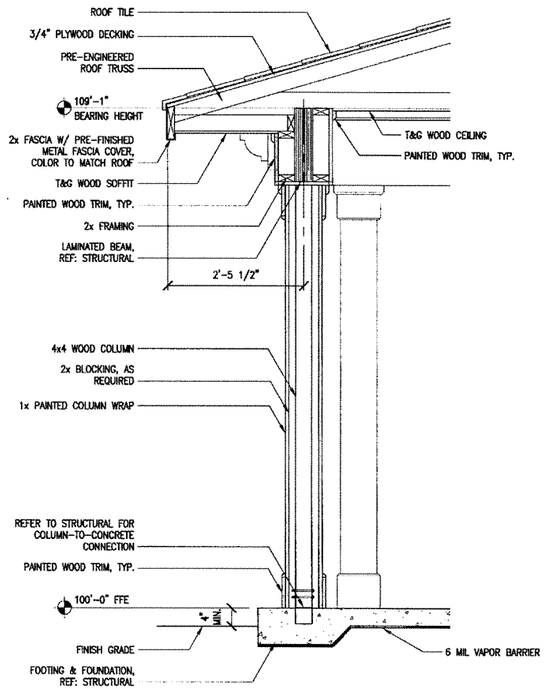
NOTE:
6 MIL VAPOR BARRIER
UNDER SLAB



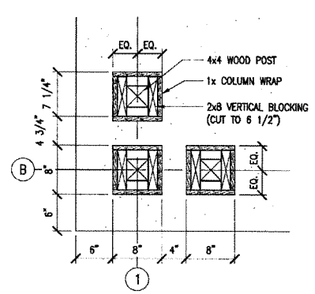
B ROOF PLAN
A-602 SCALE: 1/4" = 1'-0"



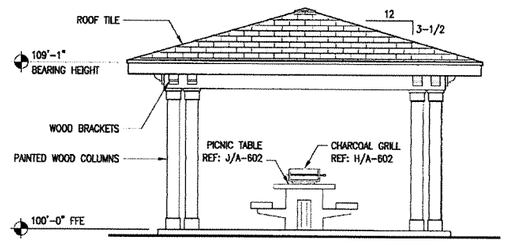
C SLAB PLAN
A-602 SCALE: 1/4" = 1'-0"



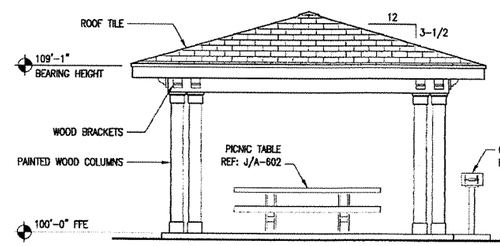
D COLUMN SECTION
A-602 SCALE: 3/4" = 1'-0"



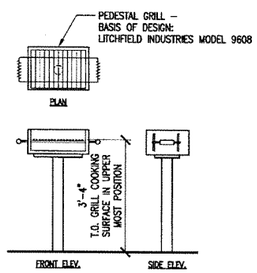
E COLUMN GROUP DETAIL
A-602 SCALE: 1" = 1'-0"



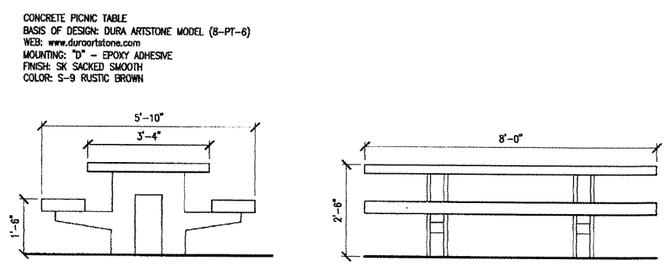
F FRONT ELEVATION
A-602 SCALE: 1/4" = 1'-0"



G SIDE ELEVATION
A-602 SCALE: 1/4" = 1'-0"



H CHARCOAL GRILL DETAIL
A-602 SCALE: 1/2" = 1'-0"



J PICNIC TABLE DETAIL
A-602 SCALE: 1/2" = 1'-0"

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2365
ARKANSAS
11-29-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PICNIC PAVILION

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-602
REV	0

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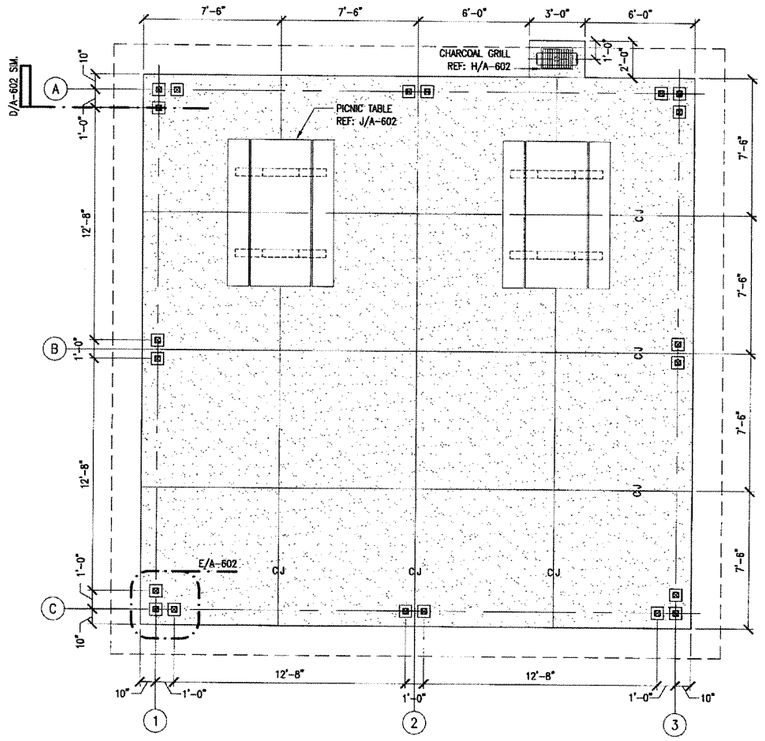
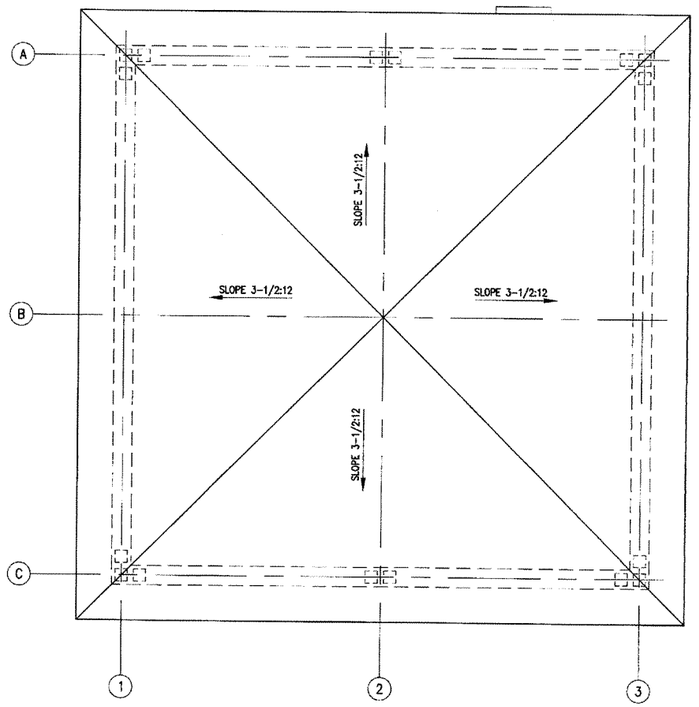


A FLOOR PLAN
A-603 SCALE: 1/4" = 1'-0"

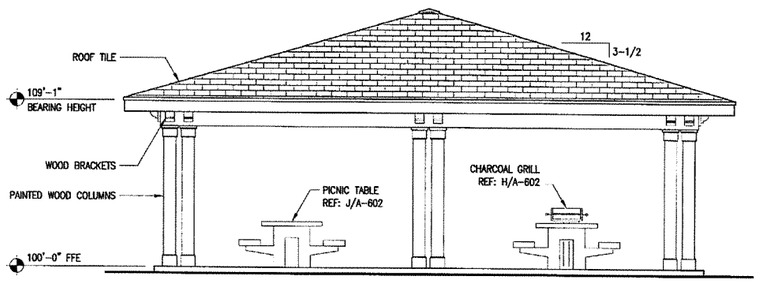
NORTH

NOTE:
6 MIL VAPOR BARRIER
UNDER SLAB

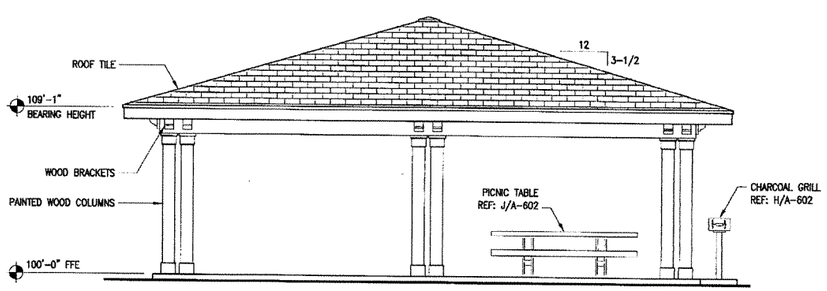


B ROOF PLAN
A-603 SCALE: 1/4" = 1'-0"

NORTH



C FRONT ELEVATION
A-603 SCALE: 1/4" = 1'-0"



D SIDE ELEVATION
A-603 SCALE: 1/4" = 1'-0"

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JOSEPH S. ROGERS
REGISTERED ARCHITECT
No. 2369
ARKANSAS
8-29-11

REGISTERED ARCHITECT
SAIC Energy, Environment, & Infrastructure, LLC
No. C-255
ARKANSAS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FAMILY PAVILION

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JNL
APPROVED BY	JSR

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	A-603
REV	0

85 OF 120

"GENERAL STRUCTURAL AND CONSTRUCTION NOTES"

THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

A. CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.
   - a. "2006 INTERNATIONAL BUILDING CODE", INTERNATIONAL CODE COUNCIL, INC.
   - b. "2007 ARKANSAS FIRE PREVENTION CODE", AND A.C.A. 12-80-101 ET. SEQ. (ARKANSAS LAW).
   - c. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ANSI/ASCE 7-05), AMERICAN SOCIETY OF CIVIL ENGINEERS.
   - d. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-05", AMERICAN CONCRETE INSTITUTE.
   - e. "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN", NINTH EDITION, 1989, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE WITH EXCEPTION, IF ANY, AS INDICATED IN THE CONTRACT DOCUMENTS).
   - f. "MANUAL OF STEEL CONSTRUCTION, VOLUME II CONNECTIONS", ASD 9TH EDITION/LRFD 1ST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
   - g. "STRUCTURAL WELDING CODE ANSI/AWS D1.1-2006, AND ANSI/AWS D1.8-2005", AMERICAN WELDING SOCIETY.
   - h. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05/ASCE 5-05) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-05/ASCE 6-05)."
   - i. "DESIGN SPECIFICATIONS", TIMBER CONSTRUCTION MANUAL, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
   - j. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", 2005, NATIONAL FOREST PRODUCTS ASSOCIATION.
   - k. "PERFORMANCE STANDARD AND POLICIES FOR STRUCTURAL-USE PANELS", PRP-108, AMERICAN PLYWOOD ASSOCIATION (APA).

B. DESIGN DATA:

1. GRAVITY - SUPERIMPOSED LIVE LOADS

AREA	PSF
a. EQUIPMENT PLATFORM	80
b. ROOF LIVE LOAD	20 PSF MINIMUM (SNOW LOAD IS USED WHEN GREATER THAN 20 PSF)
GROUND SNOW LOAD	PG = 10 PSF
ROOF SNOW LOAD	PF = 0.7(PG)(CE)(I)(CT) = 0.7(10)(1)(1)(1.1) = 7.7 PSF + DRIFTING SNOW AS APPLICABLE.

2. LATERAL LOADS - WIND
   - a. MAIN WIND-FORCE RESISTING SYSTEM:
     - (1)BASIC WIND SPEED: 90 MPH EXPOSURE: C
     - (2)IMPORTANCE FACTOR (IW): 1.0
     - (3)INTERNAL PRESSURE COEFFICIENT 0.18

HEIGHT (FT)	EFFECTIVE PRESSURE (PSF)
15	14.98
20	15.86
25	16.56
30	17.27

   - b. COMPONENTS & CLADDING - TO BE DESIGNED IN ACCORDANCE WITH ANSI/ASCE 7-05.
   - c. NET WIND UPLIFT: 12.29 PSF

3. LATERAL LOADS - SEISMIC

a. SEISMIC IMPORTANCE FACTOR(IE):	1.0
b. SPECTRAL RESPONSE ACCELERATION (Ss)	0.723
c. SPECTRAL RESPONSE ACCELERATION (SI):	0.245
d. SITE CLASS:	E
e. SPECTRAL RESPONSE COEFFICIENT (Sds):	0.604
f. SPECTRAL RESPONSE COEFFICIENT (Sd1):	0.493
g. SEISMIC DESIGN CATEGORY:	D
h. BASIC SEISMIC-FORCE-RESISTING SYSTEM:	INTERMEDIATE STEEL MOMENT FRAMES
i. RESPONSE MODIFICATION FACTOR (R):	4.50
j. DESIGN BASE SHEAR:	0.09*W (SERVICE LOAD)
k. BASIC SEISMIC-FORCE-RESISTING SYSTEM:	LIGHT-FRAMED WALLS SHEATHED WITH WOOD PANEL RATED FOR SHEAR RESISTANCE
l. RESPONSE MODIFICATION FACTOR (R):	6.50
m. DESIGN BASE SHEAR:	0.06*W (SERVICE LOAD)
n. BASIC SEISMIC - FORCE - RESISTING SYSTEM:	SPECIAL REINFORCED MASONRY SHEAR WALLS
o. RESPONSE MODIFICATION FACTOR (R):	5.00
p. DESIGN BASE SHEAR:	0.085*W (SERVICE LOAD)
q. ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE PROCEDURE

4. LATERAL LOADS - EARTH PRESSURE
   - a. LATERAL EQUIVALENT FLUID PRESSURE
     - (1)AT REST CONDITION (BRACED WALLS): 55 PSF/FT OF DEPTH

5. THE FOUNDATIONS AND STRUCTURE FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2007 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

C. FOUNDATIONS/GEOTECHNICAL REPORT:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DATED APRIL 7, 2011, REPORT NO. 110536. SEE THAT REPORT FOR ADDITIONAL REQUIREMENTS.
2. FOUNDATIONS PLACED ON UNDISTURBED SOIL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 3000 PSF.

D. MATERIALS:

1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.
2. CEMENT: ASTM C150; TYPE I OR III
3. FLY ASH: ASTM C615, TYPE C (LIMIT TO 25% MAX OF CEMENTITIOUS CONTENT BY WEIGHT)
4. AGGREGATES: ASTM C33 (NORMAL WEIGHT)
5. CONCRETE: ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED 5% ± 1-1/2% BY VOLUME. AIR-ENTRAINING ADMIXTURE TO COMPLY WITH ASTM C260. DO NOT EXCEED 3% AIR CONCRETE RECEIVING A STEEL TROWEL FINISH.

APPLICATION	F'C @ 28 DAYS	WT (PCF)	W/C (MAX)
a. SLABS ON GRADE	4000	145	0.50
b. WALLS	4000	145	0.50
c. FOOTINGS	4000	145	0.50
d. PIER/PEDESTAL	4000	145	0.50

6. REINFORCEMENT:

a. DEFORMED REINFORCING BARS	ASTM A615, GRADE 60
b. WELDED WIRE FABRIC (WWF)	ASTM A185

7. MASONRY:

a. LOAD BEARING CONCRETE MASONRY	STANDARD CONCRETE MASONRY UNITS ASTM C90; MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 1900 PSI
b. MORTAR	ASTM C270 -TYPE S
c. GROUT	ASTM C476; MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 2000 PSI
d. HORIZONTAL JOINT REINFORCING	ASTM A951; 9 GAGE TRUSS-TYPE GALVANIZED
e. PRISM STRENGTH	F'M = 1500 PSI PER ACI 530/ASCE 5, UNIT STRENGTH METHOD.

8. STEEL:

a. STRUCTURAL SHAPES	ASTM A992
b. PLATES, CHANNELS, ANGLES & MISC	ASTM A36
c. HOLLOW STUCTURAL TUBE	ASTM A500, GRADE B, Fy = 46 KSI
d. HIGH STRENGTH BOLTS	ASTM A325
e. ANCHOR BOLTS	ASTM F1554, GRADE 36
f. SMOOTH & THREADED ROD	ASTM A36
g. HEADED SHEAR STUDS	ASTM A108
h. WELDING ELECTRODES	AWS A5.1 OR A5.5, E70XX
i. ADHESIVE ANCHORING SYSTEM	ITW RAMSET/REDHEAD EPCON SYSTEM, HILTI HVA SYSTEM, SIMPSON VGC SYSTEM, OR APPROVED EQUAL

9. TIMBER (SAWN LUMBER):

IN THE FOLLOWING ALL SAWN LUMBER SHALL HAVE 19% MAX MOISTURE CONTENT AND SHALL BE SURFACE DRY DOUGLAS FIR OR SOUTHERN PINE GRADES:

a. STUDS	NO. 2 OR BETTER
b. JOISTS AND RAFTERS	NO. 2 OR BETTER
c. BEAMS, POSTS AND TIMBERS	NO. 2 OR BETTER
d. MISC FRAMING (BLOCKING, SILL PLATES, ETC)	STANDARD AND BETTER OR STUD

10. LAMINATED VENEER LUMBER (LVL): PROVIDE LVL MEMBERS WITH THE FOLLOWING MINIMUM PROPERTIES.

a. FLEXURAL STRESS	FB = 2600 PSI
b. HORIZONTAL SHEAR PARALLEL TO GRAIN	FV = 285 PSI
c. MODULUS OF ELASTICITY	E = 1900000 PSI

11. PLYWOOD PANELS: PROVIDE APA PERFORMANCE-RATED PANELS COMPLYING WITH THE INDICATED REQUIREMENTS FOR THICKNESS, SPAN RATING AND EDGE DETAIL (WHERE APPLICABLE):

a. PLYWOOD ROOF SHEATHING	19/32" THICK, EXPOSURE 1, SPAN RATING 40/20
b. ORIENTED STRAND BOARD (OSB) WALL SHEATHING	19/32" THICK, EXPOSURE 1, SPAN RATING 40/20
c. PLYWOOD FLOOR SHEATHING	23/32" THICK STURD-I-FLOOR, TONGUE AND GROOVE EDGES, EXPOSURE 1, 24" O.C.

E. CONSTRUCTION:

1. GENERAL
   - a. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
   - b. SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
   - c. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC. THE STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS AND DECKING IS IN PLACE.
   - d. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   - e. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
   - f. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
   - g. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
   - h. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRESAFING AT TOP OF WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
   - i. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL OF THE FOLLOWING ASSEMBLIES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.
     - (1)NON-LOAD BEARING STUD WALL AND CURTAIN WALL SYSTEMS AND RELATED CONNECTIONS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. BACK UP SYSTEM AND CURTAIN WALL SHALL BE DESIGNED FOR A MAXIMUM DEFLECTION OF 1/600 OF THE SPAN IN INCHES, OR 3/8", WHICHEVER IS LESS, AT THE APPLICABLE DESIGN WIND LOAD.
     - (2)METAL STAIRS AND METAL RAILINGS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED IN THESE STRUCTURAL MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING EMBEDS AND HARDWARE AS REQUIRED BY THE STAIR DESIGN.
   - j. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

F. FOUNDATIONS & STRUCTURAL EARTHWORK:

1. GENERAL:
   - a. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
   - b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
   - c. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
   - d. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
   - e. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
   - f. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
   - g. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT.
   - h. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.
2. BACKFILL:
   - a. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF BANK RUN GRAVEL, CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER, WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING AND SHALL BE FREE OF ANY DEBRIS.
   - b. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL THE UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST 7 DAYS, OR ADEQUATE BRACING IS INSTALLED.
   - c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.

G. CONCRETE:

1. CAST-IN-PLACE:
   - a. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
     - (1)MILD REINFORCED CONCRETE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER	2"
#5 BARS AND SMALLER	1-1/2"

   - b. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS, INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1-1/2" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT
   - c. IF DOWELS OR VERTICAL BARS ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTORS EXPENSE.
   - d. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   - e. CORE DRILLING OF FOUNDATIONS OR SLABS SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   - f. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
   - g. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE SPLICED WITH A CLASS B TENSION LAP.
   - h. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS.
   - i. WHEN INSTALLING ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.
   - j. CHAMFER ALL EXPOSED CONCRETE CORNERS, 3/4" X 3/4" MINIMUM, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
   - k. FOUNDATIONS AND SLABS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE UNLESS SHOWN OTHERWISE.
   - l. WELDED WIRE FABRIC REINFORCEMENT SHALL BE SUPPLIED IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER.
   - m. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.
   - n. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS IN CONTACT WITH THE BOLSTERS OR CHAIRS ARE EXPOSED.
   - o. FOR SLABS ON GRADE, USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.

H. MASONRY:

1. GENERAL:
   - a. PROVIDE STANDARD WEIGHT GALVANIZED HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AND PARTITIONS AT 16" O.C. UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ONE PIECE PREFABRICATED UNITS AT 8" O.C. AT ALL WALL CORNERS AND INTERSECTIONS.
   - b. PROVIDE MASONRY ANCHORS AT 16" O.C. SET ON COURSING AND ATTACHED TO ALL BEAMS, COLUMNS, PARTITIONS AND WALLS ABUTTING OR EMBEDDED IN MASONRY.
   - c. PROVIDE BOND BEAMS WITH 2 #4 HORIZONTAL REINFORCEMENT CONTINUOUS IN ALL MASONRY WALLS AT EACH FRAMING LEVEL.
   - d. ALL PIERS AND PARTITIONS SHALL BE BONDED OR ANCHORED TO ADJACENT MASONRY WALLS. PROVIDE TIES TO ADJACENT FLOOR AND ROOF CONSTRUCTION IN ACCORDANCE WITH DETAILS ON DRAWINGS.
   - e. IN GROUTED AND/OR REINFORCED MASONRY WALLS, USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR GROUTING AND REINFORCING STEEL PLACEMENT.
   - f. LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION SHALL BE 48 BAR DIAMETERS.
   - g. ALL WALL SECTIONS AND PIERS LESS THAN 4 SQUARE FEET IN CROSS-SECTIONAL AREA TO BE FULLY GROUTED OR OF 100% SOLID MASONRY UNITS.
   - h. SUBMIT GROUT MIX DESIGN AND MASONRY UNIT CERTIFICATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
   - i. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR ALL MASONRY WORK UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
   - j. SEE SPECIFICATIONS AND DETAILS FOR GENERAL CONTROL JOINT REQUIREMENTS. JOINTS ARE TO BE CONSTRUCTED IN ALL WALLS AND PARTITIONS.
   - k. THE CONTRACTOR SHALL VERIFY ALL OPENINGS BELOW LINTELS INDICATED ARE ADEQUATE TO ACCEPT DOOR FRAMES, LOUVERS, ETC. AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO LINTEL INSTALLATION.
   - l. NO OPENINGS SHALL BE PLACED ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE STRUCTURAL ENGINEER.

I. STRUCTURAL STEEL:

1. GENERAL:
   - a. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
   - b. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
   - c. ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. IF SUCH APPROVAL IS GRANTED, ALL CONNECTIONS, SPLICES AND ERECTION PIECES NOT IN ACCORDANCE WITH CONTRACT DRAWINGS (FABRICATOR REDESIGN) SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
   - d. ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB SHALL RECEIVE TWO (2) COATS OF BITUMINOUS PAINT - OR 3" MINIMUM CONCRETE COVER.
   - e. ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES, INCLUDING STEEL DIRECTLY EXPOSED TO WEATHER, SHALL BE POWER TOOL CLEANED AND PAINTED WITH THREE COATS OF OIL BASE PAINT IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL PAINTING SYSTEM SPECIFICATION NO. 1.09.
   - f. THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
   - g. CONNECTIONS SHALL BE SELECTED FOR REACTIONS AS SHOWN ON PLANS AND AS DETAILED AND SCHEDULED. NO CONNECTION SHALL CONSIST OF LESS THAN 2-3/4" DIA. A325-N BOLTS OR WELDS DEVELOPING LESS THAN 10,000 POUNDS. MINIMUM WELD 3/16" FILLET.
   - h. UNLESS OTHERWISE NOTED, ALL A325 BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.
   - i. WHERE STEEL BACKING IS USED WITH COMPLETE-JOINT-PENETRATION (CJP) WELDS, STEEL BACKING AND TABS SHALL BE REMOVED EXCEPT THAT TOP FLANGE BACKING ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THE CJP GROOVE WELD NEED NOT BE REMOVED. REMOVAL OF STEEL BACKING AND TABS SHALL BE AS FOLLOWS:
     - (1)FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE REINFORCING FILLET SHALL HAVE A MINIMUM LEG SIZE OF 3/16".
     - (2)WELD TAB REMOVAL SHALL EXTEND TO WITHIN 1/8" (3 mm) OF THE BASE METAL SURFACE EXCEPT AT CONTINUITY PLATES WHERE REMOVAL TO WITHIN ¼" (6 mm) OF THE PLATE EDGE IS ACCEPTABLE. EDGES OF THE WELD TAB SHALL BE FINISHED TO A SURFACE ROUGHNESS VALUE OF 500 MICRO-IN. (13 MICROMETERS) OR BETTER. GRINDING TO A FLUSH CONDITION IS NOT REQUIRED. GOUGES AND NOTCHES ARE NOT PERMITTED. THE TRANSITIONAL SLOPE OF ANY AREA WHERE GOUGES AND NOTCHES HAVE BEEN REMOVED SHALL NOT EXCEED 1:5. MATERIAL REMOVED BY GRINDING THAT EXTENDS MORE THAN 1/16" (2 mm) BELOW THE SURFACE OF THE BASE METAL SHALL BE FILLED WITH WELD METAL. THE CONTOUR OF THE WELD AT THE ENDS SHALL PROVIDE A SMOOTH TRANSITION, FREE OF NOTCHES AND SHARP CORNERS.
   - j. WHERE WELD ACCESS HOLES ARE PROVIDED, THEY SHALL BE AS SHOWN IN FIGURE 11-1 OF ANSI/AISC 341-02 (AISC SEISMIC PROVISIONS, DATED MAY 21, 2002). THE WELD ACCESS HOLE SHALL BE GROUND SMOOTH TO A SURFACE ROUGHNESS VALUE NOT TO EXCEED 500 MICRO-IN. (13 MICROMETERS), AND SHALL BE FREE OF NOTCHES AND GOUGES.
   - k. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.
   - l. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
   - m. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.
   - n. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

J. WOOD:

1. SAWN LUMBER:
   - a. SEE INTERNATIONAL BUILDING CODE CHAPTER 23 FOR MINIMUM BRACING AND FASTENING.
   - b. MEMBERS SHALL BE SET WITH CROWN UP AND HAVE A MINIMUM OF 3" BEARING.
   - c. MEMBERS FRAMING TO BEAMS, HEADERS, ETC. SHALL BE SECURED WITH SIMPSON STRONG-TIE FRAMING ANCHORS OR APPROVED EQUAL, UNLESS OTHERWISE NOTED OR SHOWN.
   - d. ALL JOISTS AND RAFTERS SHALL BE RIGIDLY BRIDGED AT INTERVALS NOT EXCEEDING 8'-0".
   - e. USE 16D NAILS AT 12" ON CENTER TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES TO JOIN MULTIPLE 2X BEAMS, JOISTS, OR GIRDERS SO THAT THE LOAD DISTRIBUTES EQUALLY. NAILS SHALL BE SPACED A MINIMUM OF ¾" FROM TOP AND BOTTOM EDGE.
   - f. USE TWO ROWS OF 12D NAILS AT 8" ON CENTER TO JOIN MULTIPLE 2X COLUMNS SO THAT LOAD DISTRIBUTES EQUALLY. ADJACENT NAILS ARE TO BE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN AND SHALL PENETRATE THE NEXT LAMINATION AT LEAST 1 ½". NAILS SHALL BE SPACED A MINIMUM OF 3/4" FROM THE EDGES.
   - g. DESIGN OF TRUSSES, TRUSS BRACING AND DETAILING OF TRUSS CONNECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS CONSISTING OF TRUSS LAYOUT PLANS AND TRUSS DETAILS, SHALL BE SUBMITTED BEARING THIS ENGINEER'S SEAL AND SIGNATURE.
   - h. ALL WOOD SILL PLATES SHALL BE ANCHORED TO GROUT FILLED CMU OR CONCRETE FOUNDATIONS WITH 1/2" DIA. ANCHORS AT 4'-0" O.C. OR 2 ANCHORS MINIMUM PER MEMBER. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 15" INTO MORTAR GROUT AND 8" INTO CAST-IN-PLACE CONCRETE FOUNDATIONS.
   - i. ALL BOLTS AND LAG BOLTS SHALL BE FITTED WITH GALVANIZED, MALLEABLE IRON OR STEEL PLATE WASHERS.
   - j. CONNECTION DETAILS SHOW ARRANGEMENT OF STRUCTURAL MEMBERS ONLY. DESIGN OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE BUILDER/FABRICATOR.

K. LAMINATED VENEER LUMBER:

1. LAMINATED VENEER LUMBER PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY ILEVEL TRUS JOIST. LAMINATED VENEER LUMBER BY OTHER MANUFACTURES MAY BE SUPPLIED PROVIDED SECTION PROPERTIES ARE WITHIN 5% OF THOSE SPECIFIED AND IF APPROVED BY THE STRUCTURAL ENGINEER.
2. USE TWO (2) ½" DIAMETER THROUGH BOLTS AT 16" O.C. TO JOIN MULTIPLE LVL BEAMS TOGETHER SO THAT LOAD DISTRIBUTES EQUALLY. PROVIDE 2" CLEARANCE FROM THE CENTER OF THE BOLT TO THE EDGE OF THE MEMBER. ALIGN BOLTS VERTICALLY.

L. PLYWOOD PANELS:

1. FACTORY-MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS.
2. INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE.
3. FLOOR SHEATHING IN ALL OTHER AREAS SHALL BE GLUED AND NAILED TO ALL SUPPORTS. FASTENERS SHALL BE 10D COMMON NAILS SPACED AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS.
4. UNLESS NOTED OTHERWISE, ROOF SHEATHING SHALL BE ATTACHED WITH 10D COMMON NAILS PROVIDING A MINIMUM OF 1½" PENETRATION INTO ROOF MEMBERS AT 6" ON CENTER AT SUPPORTED EDGES AND 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS.
5. WALL SHEATHING SHALL BE ATTACHED WITH 8D COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS, UNLESS THE WALL IS DESIGNATED AS "SHEAR WALL" ON PLAN. THEN USE ATTACHMENT PATTERN SPECIFIED IN SHEAR WALL NOTES.

M. WOOD PRESERVATIVE TREATMENT:

1. WHERE LUMBER OR PLYWOOD IS INDICATED AS "TREATED", COMPLY WITH APPLICABLE REQUIREMENTS OF AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS C2 (LUMBER) AND C9 (PLYWOOD) AND WITH AWPB STANDARDS LISTED BELOW. MARK EACH TREATED ITEM WITH THE AWPB QUALITY MARK REQUIREMENTS.
2. PRESSURE TREAT ABOVE-GROUND ITEMS WITH WATER-BORNE PRESERVATIVES TO COMPLY WITH AMERICAN WOOD PRESERVERS BUREAU (AWPB) LP-2. AFTER TREATMENT, KILN-DRY LUMBER AND PLYWOOD TO A MAXIMUM MOISTURE CONTENT, RESPECTIVELY, OF 10 PERCENT AND 15 PERCENT.
3. TREAT INDICATED ITEMS AND WOOD SILLS, SLEEPERS, BLOCKING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.

DONALD W. WHITMIRE No. 6485

ENGINEERING CONSULTANTS, INC. No. 26

12 Aug 2011

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From Science to Solutions
SAIC ENERGY, ENVIRONMENT
& INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
GENERAL NOTES

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-100
REV	0

86 OF 120

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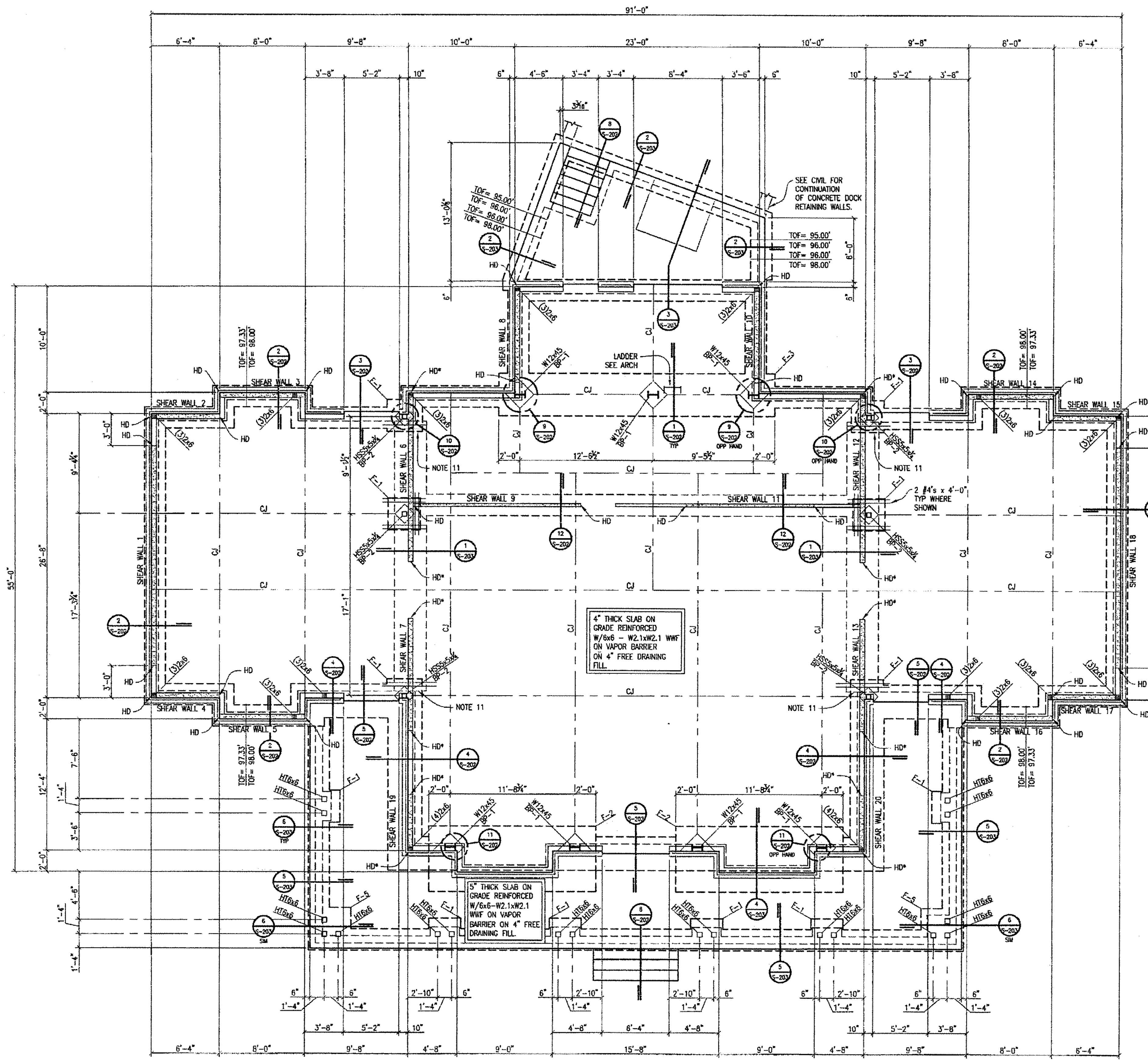


FOUNDATION PLAN

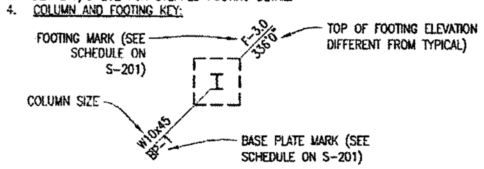
SCALE: 3/16" = 1'-0"

PLAN NORTH

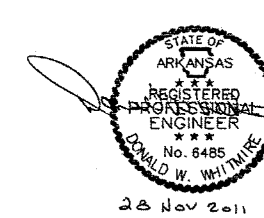
SEE ARCH FOR TRUE NORTH

PLAN NOTES:

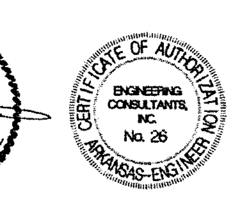
1. TOP OF SLAB REFERENCE ELEVATION = 100.00' UNLESS NOTED.
2. TOP OF INTERIOR FOOTING ELEVATION = 99.00' UNLESS NOTED.
3. TOP OF EXTERIOR FOOTING ELEVATION = 98.00" UNLESS NOTED. TOP OF WALL FOOTING ELEVATION TO MATCH ADJACENT COLUMN FOOTING. STEP FOOTING AS REQUIRED. SEE DETAIL 7/S-202 FOR STEPPED FOOTING DETAIL.
4. COLUMN AND FOOTING KEY:



5. ALL FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED.
6. SEE S-100 FOR GENERAL NOTES.
7. CJ REPRESENTS CONSTRUCTION JOINT OR CONTROL JOINT IN SLAB-ON-GRADE. SEE DETAIL 5/S-201 AND 6/S-201.
8. COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
9. EXTERIOR LOAD BEARING WALLS SHALL BE 2x6 WOOD STUDS AT 16" ON CENTERS UNLESS NOTED OTHERWISE.
10. INTERIOR LOAD BEARING WALLS SHALL BE 2x4 WOOD STUDS AT 16" ON CENTERS UNLESS NOTED OTHERWISE.
11. TURN THICKENED SLAB DOWN TO CONTINUOUS EXTERIOR FOOTING.
12. SEE S-201 FOR TYPICAL FOUNDATION DETAILS.
13. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE VAPOR BARRIER IS REQUIRED.



28 Nov 2011



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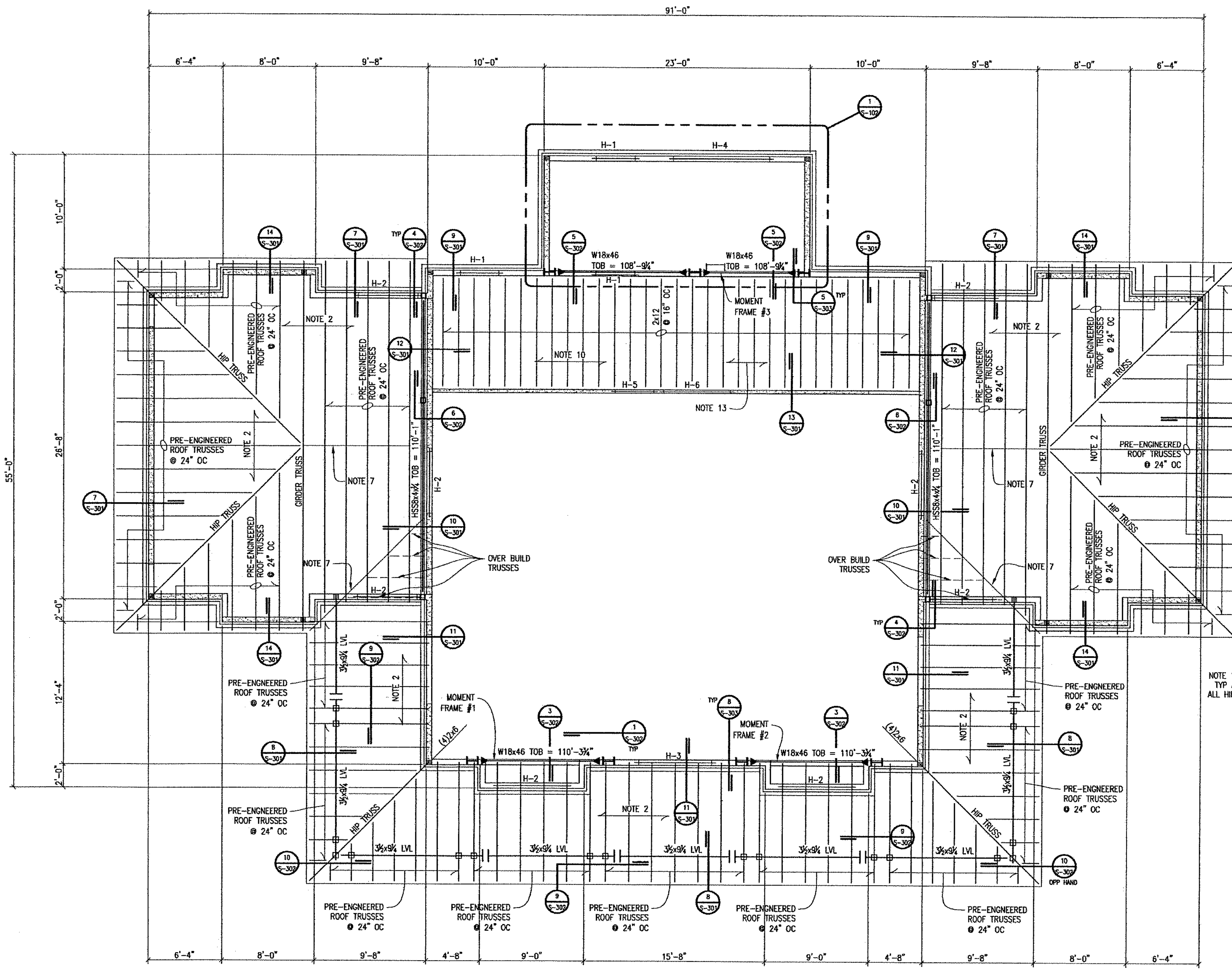
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FOUNDATION PLAN

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-101
REV	0



EQUIPMENT PLATFORM & LOW ROOF FRAMING PLAN

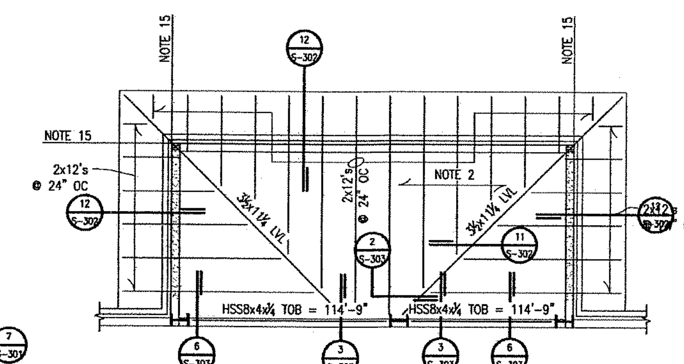
SCALE: 3/16" = 1'-0"

PLAN NORTH

SEE ARCH FOR TRUE NORTH

TRUSS NOTES.

1. ALL ROOF TRUSSES SHALL BE DESIGNED BY THE FABRICATOR TO SUPPORT 15 PSF DEAD LOAD ON TOP CHORD AND 10 PSF DEAD LOAD ON BOTTOM CHORD PLUS 20 PSF LIVE LOAD ON TOP CHORD PLUS 10 PSF LIVE LOAD ON BOTTOM CHORD UNLESS OTHERWISE NOTED, PLUS CODE WIND LOAD AND SNOW LOAD. WIND LOADINGS SHALL BE CALCULATED USING 6 PSF TOP CHORD DEAD LOAD AND 4 PSF BOTTOM CHORD DEAD LOAD.
2. SHOP DRAWINGS SHALL CONSIST OF LAYOUT PLANS, PERMANENT BRACING, AND CONNECTION DETAILS. STRUCTURAL CALCULATIONS AND COMPUTER PRINTOUTS SHOWING THE DESIGN FORCES IN EACH MEMBER AND REACTIONS FOR THE TRUSSES SHALL ACCOMPANY SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE RECOMMENDATIONS FOR TRUSS ERECTION AND TEMPORARY BRACING REQUIRED IN THE CONSTRUCTION PHASE.
3. SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE PROJECTS JURISDICTION SHALL BE SUBMITTED FOR APPROVAL. OBTAIN OWNER'S APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
5. NUMBER 3 GRADE LUMBER WILL NOT BE ALLOWED FOR CHORDS OR WEB MEMBERS.
6. MINIMUM TRUSS PLATE SIZE SHALL BE 3"x5" OR 4"x4" EACH SIDE OF TRUSS AT ALL JOINTS
7. MINIMUM CONTACT AREAS FOR TRUSS PLATES SHALL BE 3.75 SI ON EACH MEMBER AT ALL JOINTS, EACH SIDE OF TRUSS.
8. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.

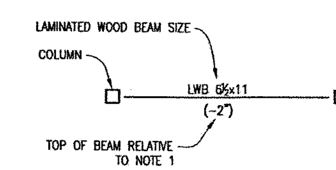


1 PARTIAL ROOF FRAMING PLAN

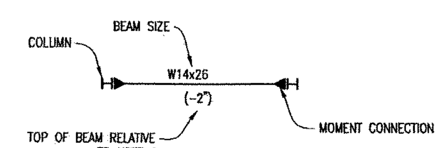
SCALE: 3/16" = 1'-0"

PLAN NOTES:

1. TOP OF STRUCTURAL BEAM ELEVATION IS DENOTED ON PLAN AS TOB = XXX'=X" UNLESS NOTED (±0'-0")
2. ROOF DECK TO BE 19/32" PLYWOOD SHEATHING.
3. STRUCTURAL FRAMING KEY:



4. ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
5. SEE S-100 FOR GENERAL NOTES.
6. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
7. WHERE WOOD MEMBER IS NOT FRAMED ALONG RIDGE OR VALLEY, PROVIDE 2x6 BETWEEN WOOD MEMBERS.
8. STRUCTURAL STEEL FRAMING KEY:



9. MOMENT FRAME #1, MOMENT FRAME #2, AND MOMENT FRAME #3 ARE PART OF THE SEISMIC LATERAL RESISTING SYSTEM (SLRS). ALL WELDS IN THE SLRS SHALL CONFORM TO ANSI/AWS D1.8.
10. FLOOR DECK TO BE 23/32" STRUD-I-FLOOR PLYWOOD SHEATHING.
11. SEE S-301 FOR HEADER SCHEDULE.
12. TRUSS BEARING ELEVATION = 109'-1" UNLESS OTHERWISE NOTED.
13. TOP OF FLOOR DECK ELEVATION = 109'-1".
14. START 2x8 FASCIA AT HIPS. FASCIA TO BE CONTINUOUS 10'-0" PAST END OF HIP BEFORE SPLICE.
15. JOIST BEARING ELEVATION = 112'-1".

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

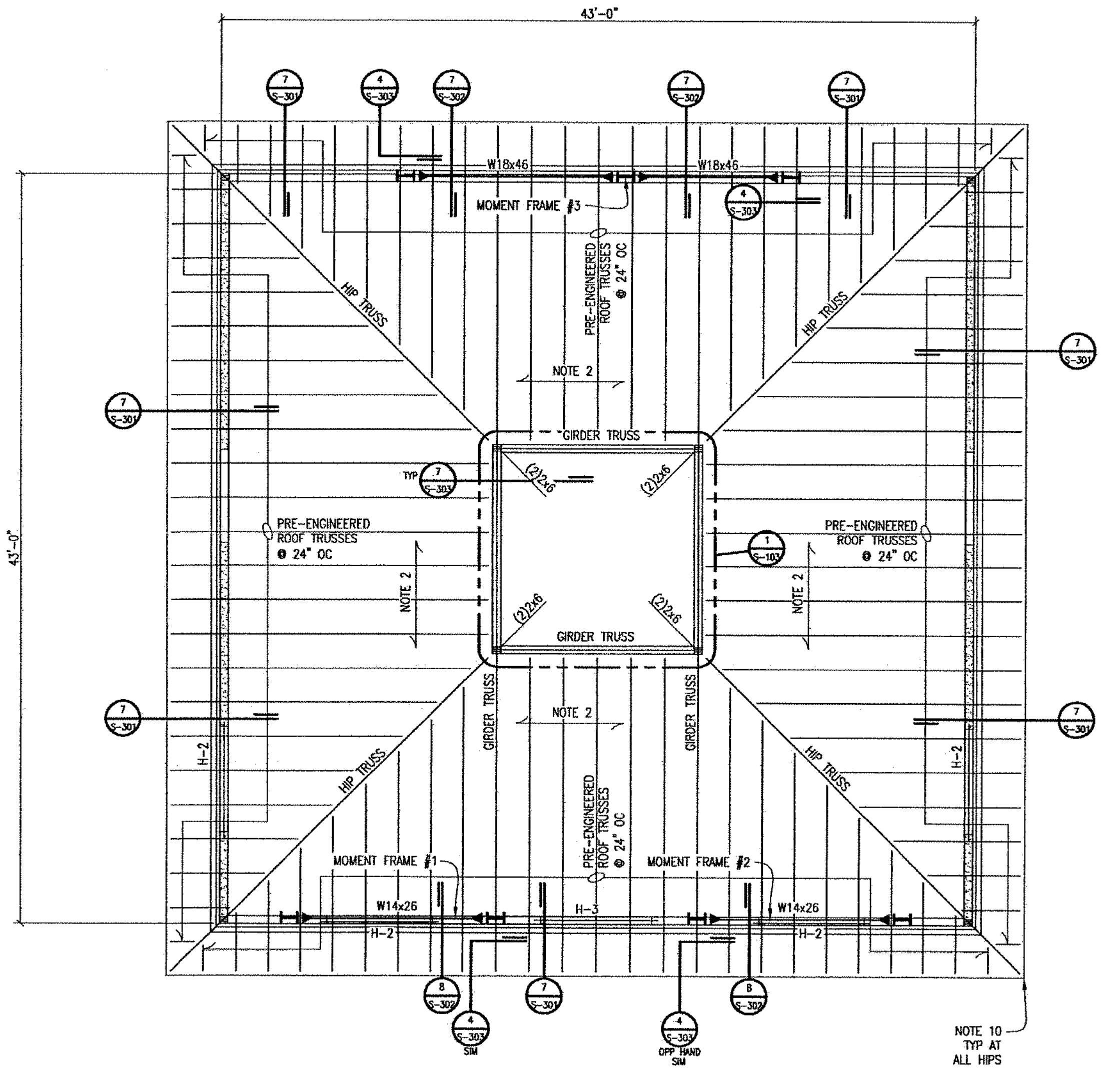
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

EQUIPMENT PLATFORM & LOW ROOF FRAMING PLAN

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-102
REV	0



ROOF FRAMING PLAN

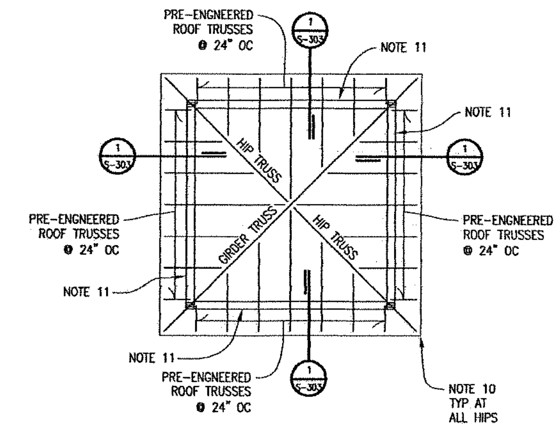
SCALE: 3/16" = 1'-0"

PLAN NORTH

SEE ARCH FOR TRUE NORTH

TRUSS NOTES.

1. ALL ROOF TRUSSES SHALL BE DESIGNED BY THE FABRICATOR TO SUPPORT 15 PSF DEAD LOAD ON TOP CHORD AND 10 PSF DEAD LOAD ON BOTTOM CHORD PLUS 20 PSF LIVE LOAD ON TOP CHORD PLUS 10 PSF LIVE LOAD ON BOTTOM CHORD UNLESS OTHERWISE NOTED, PLUS CODE WIND LOAD AND SNOW LOAD. WIND LOADINGS SHALL BE CALCULATED USING 6 PSF TOP CHORD DEAD LOAD AND 4 PSF BOTTOM CHORD DEAD LOAD.
2. SHOP DRAWINGS SHALL CONSIST OF LAYOUT PLANS, PERMANENT BRACING, AND CONNECTION DETAILS. STRUCTURAL CALCULATIONS AND COMPUTER PRINTOUTS SHOWING THE DESIGN FORCES IN EACH MEMBER AND REACTIONS FOR THE TRUSSES SHALL ACCOMPANY SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE RECOMMENDATIONS FOR TRUSS ERECTION AND TEMPORARY BRACING REQUIRED IN THE CONSTRUCTION PHASE.
3. SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE PROJECTS JURISDICTION SHALL BE SUBMITTED FOR APPROVAL. OBTAIN OWNER'S APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
5. NUMBER 3 GRADE LUMBER WILL NOT BE ALLOWED FOR CHORDS OR WEB MEMBERS.
6. MINIMUM TRUSS PLATE SIZE SHALL BE 3"x5" OR 4"x4" EACH SIDE OF TRUSS AT ALL JOINTS
7. MINIMUM CONTACT AREAS FOR TRUSS PLATES SHALL BE 3.75 SI ON EACH MEMBER AT ALL JOINTS, EACH SIDE OF TRUSS.
8. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.

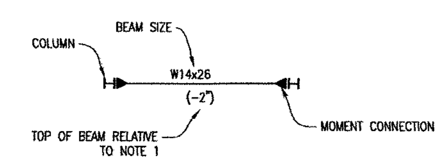


1 PARIAL PLAN – ROOF FRAMING

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

PLAN NOTES:

1. TOP OF STRUCTURAL BEAM ELEVATION IS 118'=2" UNLESS NOTED (±0'-0")
2. ROOF DECK TO BE 19/32" PLYWOOD SHEATHING.
3. ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
4. SEE S-100 FOR GENERAL NOTES.
5. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
6. WHERE WOOD MEMBER IS NOT FRAMED ALONG RIDGE OR VALLEY, PROVIDE 2x6 BETWEEN WOOD MEMBERS.
7. STRUCTURAL STEEL FRAMING KEY:



8. MOMENT FRAME #1, MOMENT FRAME #2, AND MOMENT FRAME #3 ARE PART OF THE SEISMIC LATERAL RESISTING SYSTEM (SLRS). ALL WELDS IN THE SLRS SHALL CONFORM TO ANSI/AWS D1.8.
9. TRUSS BEARING ELEVATION = 118'-5" UNLESS OTHERWISE NOTED.
10. START 2x8 FASCIA AT HIPS. FASCIA TO BE CONTINUOUS 10'-0" PAST END OF HIP BEFORE SPLICE.
11. TRUSS BEARING ELEVATION = 126'-10"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ROOF FRAMING PLAN

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-103
REV	0

Filename: S:\NWA Projects\11N034 West Helena Welcome Center\ECI Drawings\S-103.dwg Saved: 8/11/2011 3:35:53 PM By: Cad-1

SHEAR WALL SCHEDULE			
MARK	LENGTH (FT)	REMARKS	TYPES
SHEAR WALL 1	20'-8"	–	TYPE I
SHEAR WALL 2	6'-4"	–	TYPE I
SHEAR WALL 3	8'-0"	–	TYPE I
SHEAR WALL 4	6'-4"	–	TYPE I
SHEAR WALL 5	8'-0"	–	TYPE I
SHEAR WALL 6	15'-3"	OSB ON EAST SIDE OF WALL	TYPE II
SHEAR WALL 7	10'-6"	OSB ON EAST SIDE OF WALL	TYPE II
SHEAR WALL 8	9'-0"	–	TYPE I
SHEAR WALL 9	15'-9"	OSB ON SOUTH SIDE OF WALL	TYPE I
SHEAR WALL 10	9'-0"	–	TYPE I
SHEAR WALL 11	12'-0"	OSB ON SOUTH SIDE OF WALL	TYPE I
SHEAR WALL 12	15'-3"	OSB ON WEST SIDE OF WALL	TYPE II
SHEAR WALL 13	10'-6"	OSB ON WEST SIDE OF WALL	TYPE II
SHEAR WALL 14	8'-0"	–	TYPE I
SHEAR WALL 15	6'-4"	–	TYPE I
SHEAR WALL 16	8'-0"	–	TYPE I
SHEAR WALL 17	6'-4"	–	TYPE I
SHEAR WALL 18	20'-8"	–	TYPE I
SHEAR WALL 19	5'-3"	OSB ON EAST SIDE OF WALL	TYPE II
SHEAR WALL 20	5'-3"	OSB ON WEST SIDE OF WALL	TYPE II

(1) SHEAR WALL SCHEDULE
SCALE: NTS

TYPE I WOOD SHEAR WALLS:

1. WOOD SHEAR WALLS ARE TO EXTEND FROM SLAB ON GRADE TO ROOF DECK UNLESS NOTED OTHERWISE.
2. ALL OSB FOR SHEAR WALLS SHALL BE 19/32" THICK SPAN RATED 40/20. OSB TO BE ON ONE SIDE OF WOOD STUDS.
3. OSB SHEATHING SHALL BE ATTACHED TO WOOD STUDS WITH 10d NAILS PROVIDING 1½" PENETRATION INTO WOOD STUDS.
4. INDIVIDUAL OSB PANEL EDGES TO BE BLOCKED.
5. FASTENER SPACING AT SHEAR WALL BOUNDARY SHALL BE 6" ON CENTER MAXIMUM UNO.
6. FASTENER SPACING AT ALL INDIVIDUAL OSB PANEL EDGES SHALL BE 6" ON CENTER MAXIMUM UNO.
7. FASTENER SPACING FOR ALL INTERMEDIATE FRAMING MEMBERS SHALL BE 12" ON CENTER MAXIMUM.
8. PROVIDE HOLD DOWN ANCHORS AT EACH END OF EACH SHEAR WALL. ANCHOR SHALL BE HDU5-SDS2.5 BY SIMPSON STRONG-TIE WITH (1) ⅝" DIA SET EPOXY-TIE BY SIMPSON STRONG-TIE 9" INTO CONCRETE. NOTED AS HD ON PLAN. CENTER LINE OF ANCHOR ROD SHALL BE 3" FROM THE EDGE OF SLAB.
9. UNO ALL SHEAR WALLS AT EXTERIOR WALLS HAVE OSB ON THE OUTSIDE OF WOOD STUDS.
10. PROVIDE 2 FULL HEIGHT STUDS AT EACH HOLD DOWN UNLESS OTHERWISE NOTED.

TYPE II WOOD SHEAR WALLS:

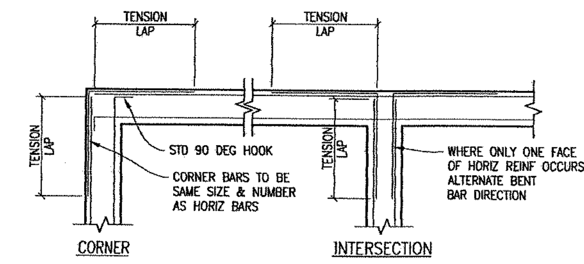
1. WOOD SHEAR WALLS ARE TO EXTEND FROM SLAB ON GRADE TO ROOF DECK UNLESS NOTED OTHERWISE.
2. ALL OSB FOR SHEAR WALLS SHALL BE 19/32" THICK SPAN RATED 40/20. OSB TO BE ON ONE SIDE OF WOOD STUDS.
3. OSB SHEATHING SHALL BE ATTACHED TO WOOD STUDS WITH 10d NAILS PROVIDING 1½" PENETRATION INTO WOOD STUDS.
4. INDIVIDUAL OSB PANEL EDGES TO BE BLOCKED WITH A 3" NOMINAL OR WIDER MEMBER.
5. FASTENER SPACING AT SHEAR WALL BOUNDARY SHALL BE 3" ON CENTER MAXIMUM STAGGERED UNO.
6. FASTENER SPACING AT ALL INDIVIDUAL OSB PANEL EDGES SHALL BE 3" ON CENTER MAXIMUM STAGGERED UNO.
7. FASTENER SPACING FOR ALL INTERMEDIATE FRAMING MEMBERS SHALL BE 12" ON CENTER MAXIMUM.
8. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER.
9. SILL PLATES SHALL BE 3" NOMINAL MEMBER. PROVIDE BEARING PLATE AT EACH SILL PLATE ANCHOR BOLT. BEAR PLATE SHALL BE BPS ½-3 BY SIMPSON STRONG-TIE.
10. PROVIDE TWO HOLD DOWN ANCHORS AT EACH END OF EACH SHEAR WALL. ANCHOR SHALL BE HDU5-SDS2.5 BY SIMPSON STRONG-TIE WITH (1) ⅝" DIA SET EPOXY-TIE BY SIMPSON STRONG-TIE 9" INTO CONCRETE. NOTED AS HD* ON PLAN. CENTER LINE OF ANCHOR ROD SHALL BE 3" FROM THE EDGE OF SLAB. HOLD DOWN ANCHORS SHALL BE 16" APART. SEE DETAIL 6/S-202.
11. UNO ALL SHEAR WALLS AT EXTERIOR WALLS HAVE OSB ON THE OUTSIDE OF WOOD STUDS.
12. PROVIDE 2 FULL HEIGHT STUDS AT EACH HOLD DOWN UNLESS OTHERWISE NOTED.

(2) SHEAR WALL NOTES
SCALE: NTS

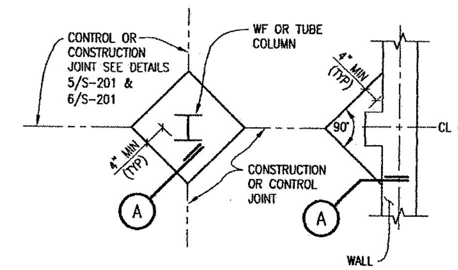
GRADE 60 BARS		CONCRETE STRENGTH, PSI				
		3000		4000		
BAR SIZE	CENTER TO CENTER BAR SPACING	LESS THAN 4db	4db OR MORE	LESS THAN 4db	4db OR MORE	4db
#3	TOP BAR	3'-6"	2'-4"	3'-0"	2'-0"	1½"
	OTHER BAR	2'-8"	1'-9"	2'-4"	1'-6"	
#4	TOP BAR	4'-8"	3'-1"	4'-0"	2'-8"	2"
	OTHER BAR	3'-7"	2'-4"	3'-1"	2'-1"	
#5	TOP BAR	5'-9"	3'-10"	5'-0"	3'-4"	2½"
	OTHER BAR	4'-5"	3'-0"	3'-10"	2'-7"	
#6	TOP BAR	6'-11"	4'-7"	6'-0"	4'-0"	3"
	OTHER BAR	5'-4"	3'-7"	4'-7"	3'-1"	
#7	TOP BAR	10'-1"	6'-9"	8'-9"	5'-10"	3½"
	OTHER BAR	7'-9"	5'-2"	6'-9"	4'-6"	
#8	TOP BAR	11'-7"	7'-9"	10'-0"	6'-8"	4"
	OTHER BAR	8'-11"	5'-11"	7'-8"	5'-2"	

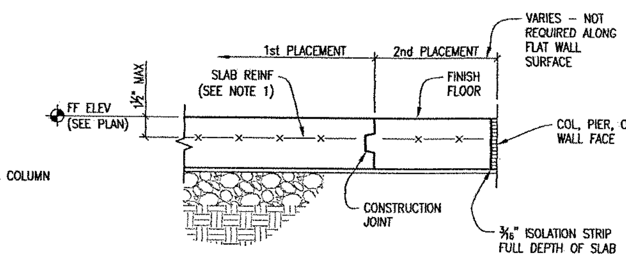
NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
2. MINIMUM COVER FOR BARS SPACED 4db OR MORE IS TO BE GREATER THAN db. OTHERWISE, USE LENGTH FOR LESS THAN 4db SPACING.

(3) CLASS B TENSION LAP SPLICE LENGTH FOR BEAM, SLAB, WALL AND CONCRETE JOIST REINFORCING BARS
SCALE: NTS



(4) TYPICAL CORNER BAR DETAIL
SCALE: NTS

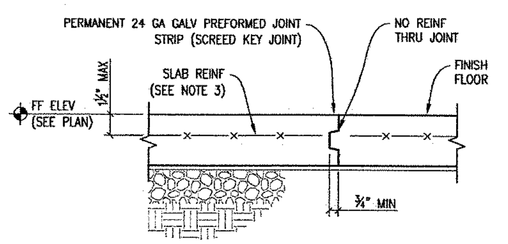




(A) DETAIL

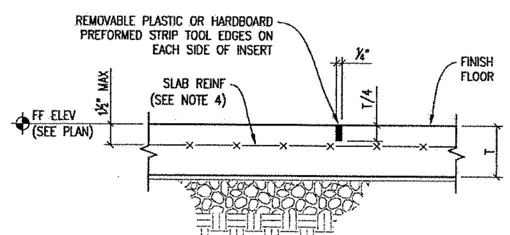
NOTE:
1. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REINF IN POSITION DURING CONCRETE PLACEMENT.

(7) JOINT AT COLUMNS AND PIERS FOR SLAB ON GRADE
SCALE: NTS



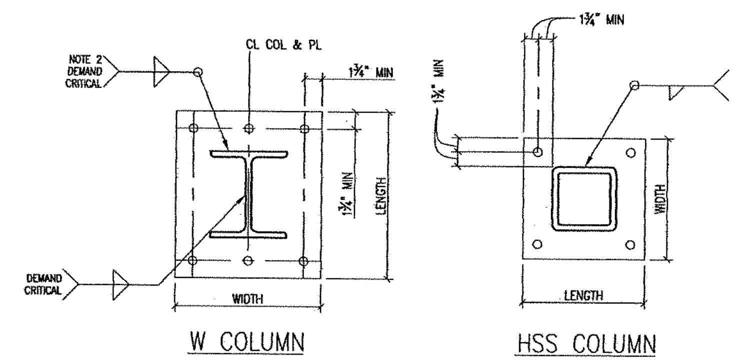
NOTES:
1. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.
2. REFER TO ARCHITECTURAL DETAILS FOR JOINT FILLER WHERE REQUIRED.
3. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REINF IN POSITION DURING CONCRETE PLACEMENT.

(5) SLAB ON GRADE CONSTRUCTION JOINT
SCALE: NTS



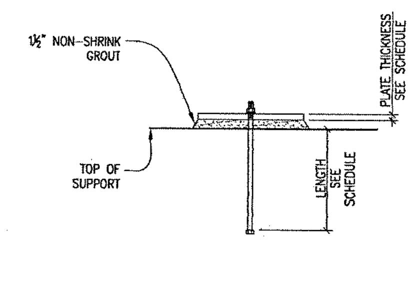
NOTES:
1. FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.
2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.
3. SAWCUT JOINTS ARE PERMITTED WITH THE APPROVAL OF THE OWNER'S PROJECT MANAGER ONLY. IF APPROVED, SAWCUT JOINTS USING A "SOFF-CUT" MACHINE OR EQUAL IMMEDIATELY AFTER FINISHING SLAB.
4. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REINF IN POSITION DURING CONCRETE PLACEMENT.

(6) SLAB ON GRADE CONTROL JOINT FOR TYPICAL SLABS
SCALE: NTS



NOTES:
1. SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES.
2. WELD AS REQUIRED TO DEVELOP FULL MOMENT CAPACITY OF COLUMN.
3. MINIMUM WELD TO BE 5/16" FILLET.

(11) COLUMN BASE PLATE
SCALE: NTS



NOTES:
1. SEE SCHEDULE FOR BOLT SIZE.
2. LEVELING PLATE MAY BE USED AT CONTRACTORS OPTION WITH ENGINEERS APPROVAL.
3. HEAVY WASHERS OR PLATES REQUIRED AT ALL OVERSIZED HOLES.

(10) BASE PLATE SETTING DETAIL
SCALE: NTS

COLUMN FOOTING SCHEDULE					
MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F-1	3'-0"	3'-0"	1'-3"	3 #5's BOTTOM	EACH WAY
F-2	4'-0"	SEE PLAN	2'-0"	#5's @ 6" LONG #5's @ 12" SHORT	TOP AND BOTTOM
F-3	5'-0"	SEE PLAN	2'-0"	#5's @ 6" LONG #5's @ 12" SHORT	TOP AND BOTTOM
F-4	4'-0"	4'-0"	1'-0"	4 #5's TOP & BOTTOM	EACH WAY
F-5	4'-0"	4'-0"	1'-3"	4 #5's BOTTOM	EACH WAY

(8) COLUMN FOOTING SCHEDULE
SCALE: NTS

COLUMN BASE PLATE SCHEDULE							
MARK	BASE PLATE SIZE			ANCHOR BOLT			REMARKS
	WIDTH	LENGTH	THICK	NO	SIZE	*LENGTH	
BP-1	1'-3"	1'-8"	1"	6	1"	1'-4"	
BP-2	1'-0"	1'-0"	3/4"	4	3/4"	9"	
BP-3	11"	11"	3/4"	4	3/4"	9"	

* LENGTH INDICATED IS MINIMUM EMBEDMENT

(9) COLUMN BASE PLATE SCHEDULE
SCALE: NTS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE
12 Aug 2011

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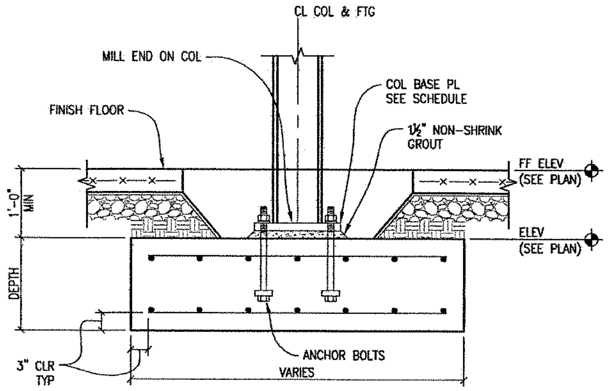
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536

TYPICAL FOUNDATION DETAILS

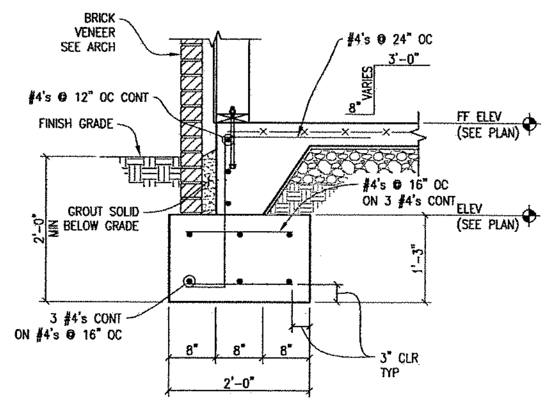
DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-201
REV	0

Filename: S:\WWA Projects\11N034 West Helena Welcome Center\ECI Drawings\S-201.dwg Saved: 8/11/2011 3:35:52 PM By: Cad-1

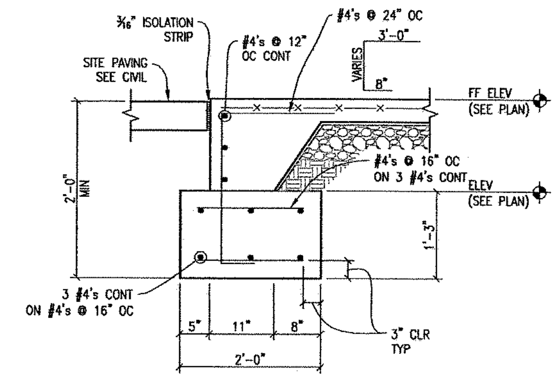


NOTES:
1. STEEL BELOW TOP OF FLOOR SLAB TO RECEIVE 2 COATS OF BITUMINOUS PAINT OR 3" MIN CONCRETE COVER.
2. LEVELING PLATES MAY BE USED (NOT SHOWN).
3. SEE SCHEDULES FOR DIMENSIONS AND REINFORCEMENT.

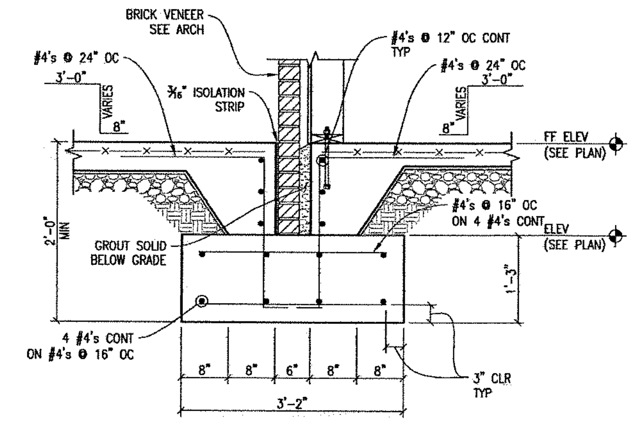
1 COLUMN FOOTING (STEEL COLUMN)
SCALE: NTS



2
SCALE: 3/4" = 1'-0"



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



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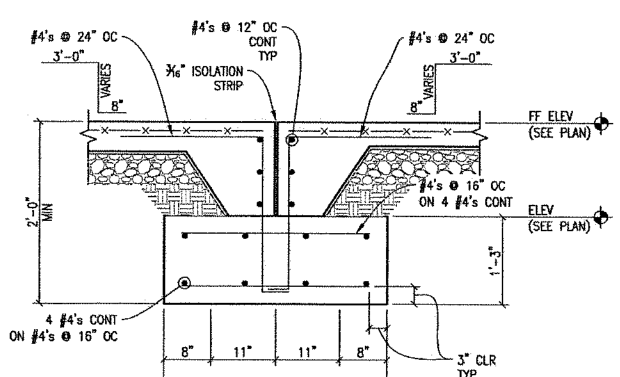
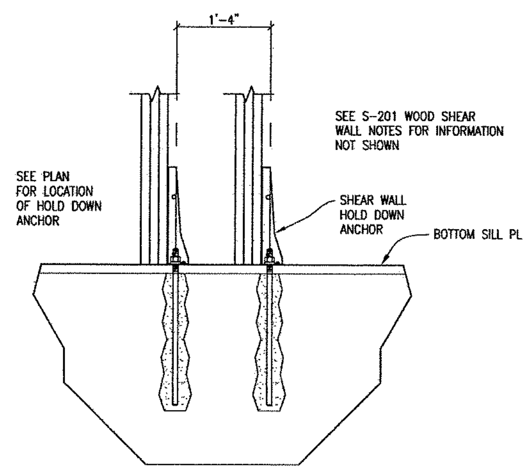
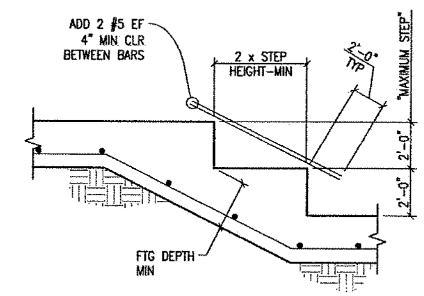
SCALE: 3/4" = 1'-0"



5
SCALE: 3/4" = 1'-0"

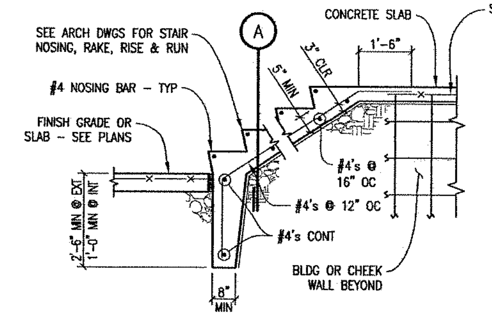


6
SCALE: 3/4" = 1'-0"

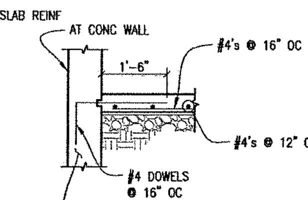


NOTES:
STEPS IN FOOTING ARE LIMITED TO GROUPS OF THREE WITH 4'-0" MINIMUM OF HORIZONTAL DISTANCE BETWEEN EACH GROUP.

7 STEPPED FOOTING – REINFORCED CONCRETE WALLS
SCALE: NTS

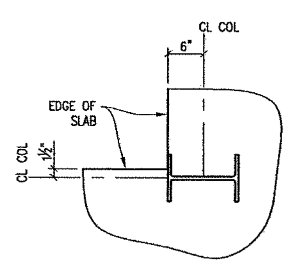


8 STAIR ON GRADE
SCALE: NTS

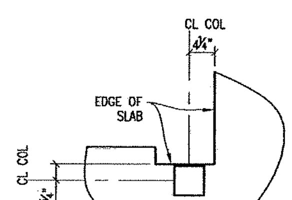


NOTE: WHERE CHEEK WALL IS NOT DETAILED, PROVIDE 8" THK CONC WALL w/#4's @ 10" EW & 10" DEEP BY 1'-6" WIDE STRIP FOOTING w/2 #4's CONT (HOOK VERTICAL WALL REINF INTO FOOTING).

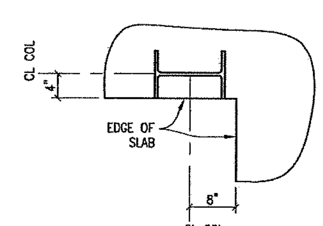
A SECTION BEYOND



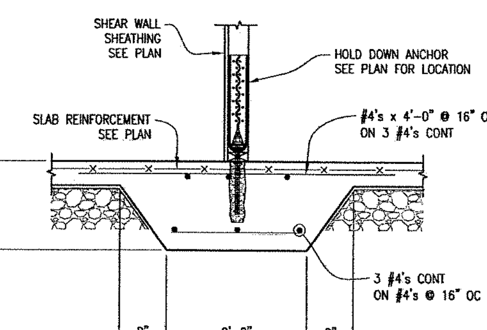
9
SCALE: 3/4" = 1'-0"



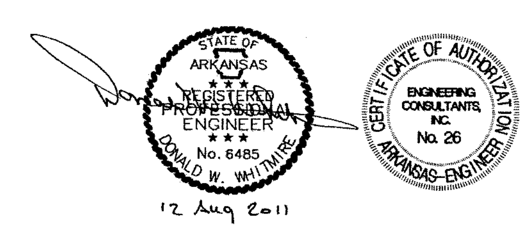
10
SCALE: 3/4" = 1'-0"



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



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



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(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536

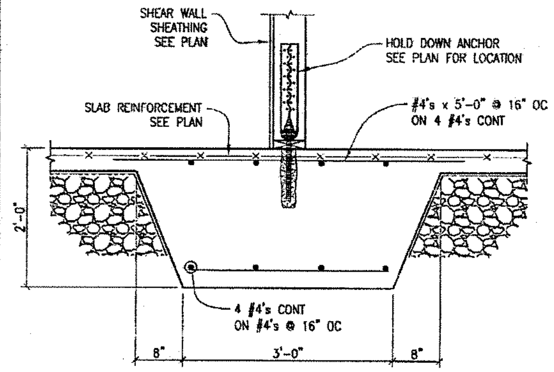
FOUNDATION DETAILS

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

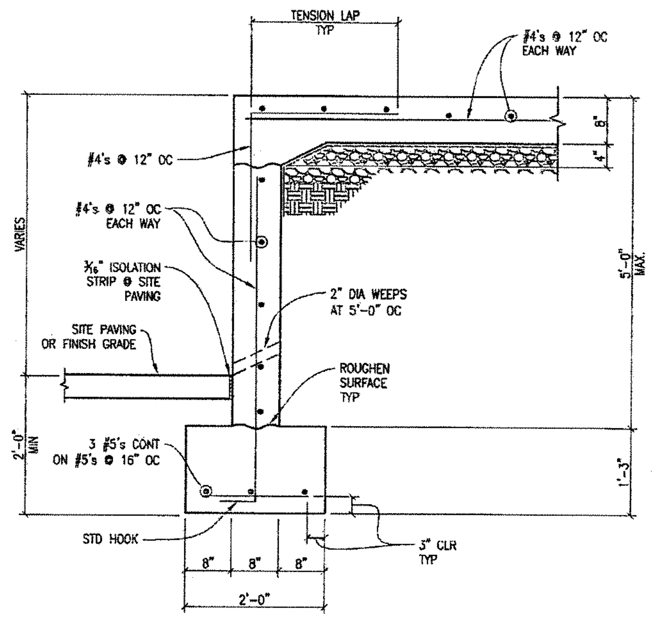
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-202
REV	0

91 OF 120

Filename: S:\NWA Projects\11N034 West Helena Welcome Center\ECI Drawings\S-202.dwg Saved: 8/11/2011 3:36:21 PM By: Cad-1

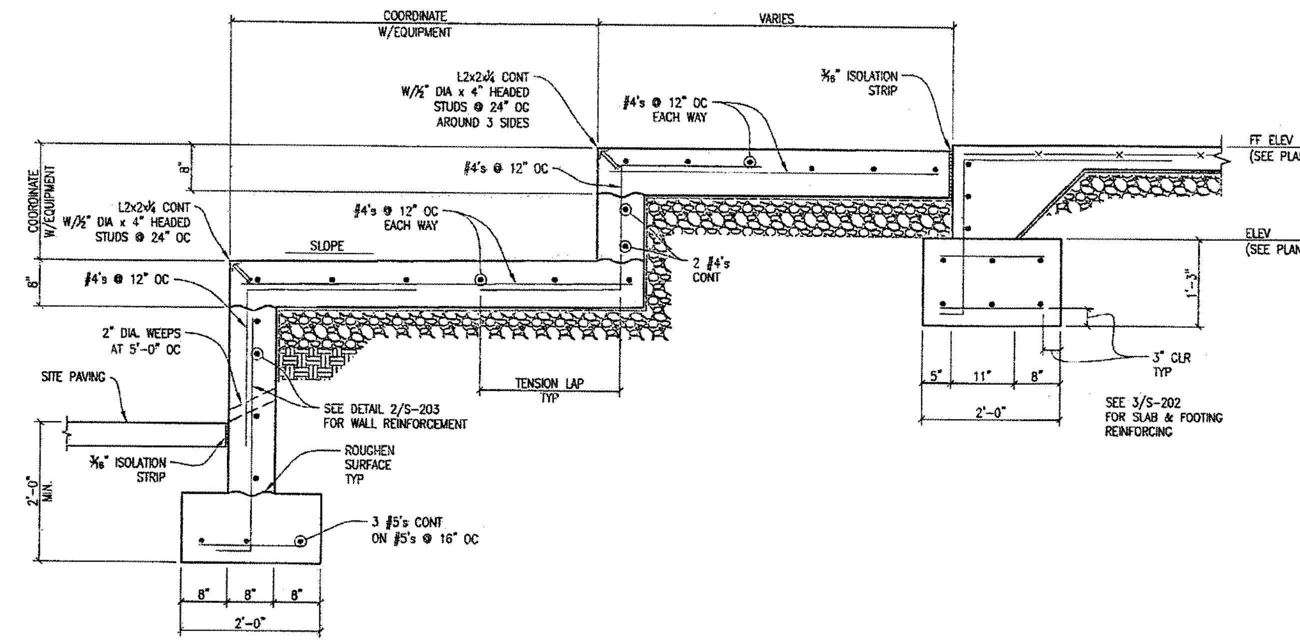


1 SCALE: 3/4" = 1'-0"



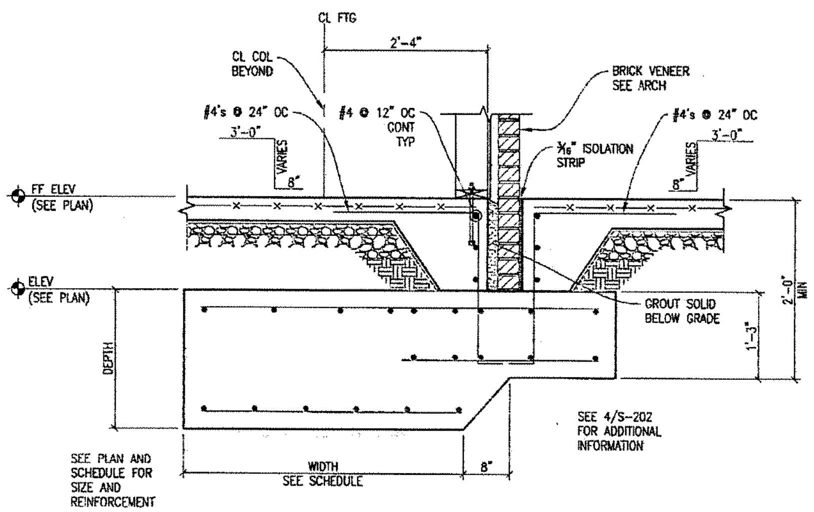
2 FOUNDATION WALL AT DOCK

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



3 DOCK LEVELOR DETAIL

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



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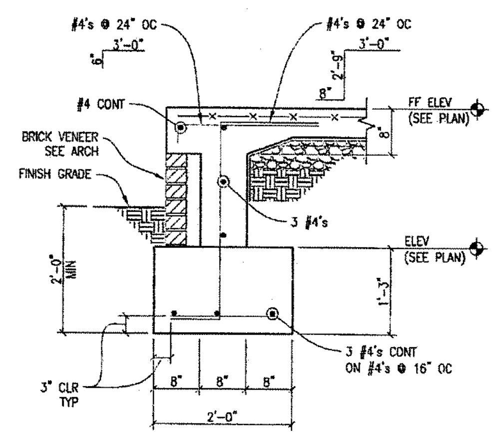
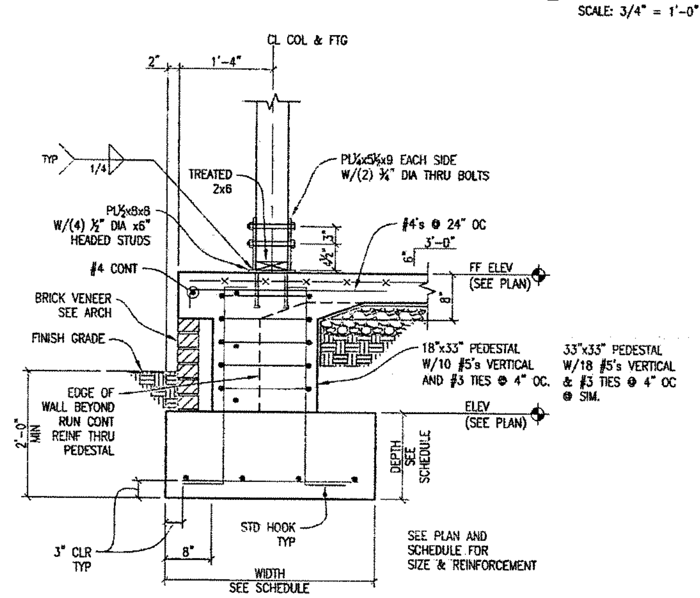


5 SCALE: 3/4" = 1'-0"



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

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0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FOUNDATION DETAILS

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-203
REV	0

92 OF 120

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

23 Nov 2011

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

Filename: S:\WA Projects\110334 West Helena Welcome Center\ECI Drawings\S-203.dwg Saved: 8/11/2011 3:35:49 PM By: Cad-1

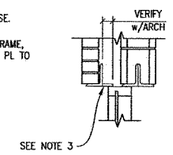
HEADER SCHEDULE				
MARK	OPENING SIZE	HEADER	#JACK STUDS	FULL HEIGHT STUDS
H-1	0'-0" TO 4'-0"	(3) 2x6	(2) 2x6	(2) 2x6
H-2	4'-0" TO 6'-0"	(3) 2x10	(2) 2x6	(2) 2x6
H-3	6'-0" TO 8'-0"	(3) 2x12	(3) 2x6	(3) 2x6
H-4	8'-4"	(3) 2x12	(3) 2x6	(3) 2x6
H-5	0'-0" TO 4'-0"	(2) 2x6	(2) 2x4	(2) 2x4
H-6	5'-9"	(2) 2x10	(2) 2x4	(2) 2x4

NOTES:
1. NUMBER OF JACK STUDS AND FULL HEIGHT STUDS ARE TO BE ON EACH SIDE OF OPENING.

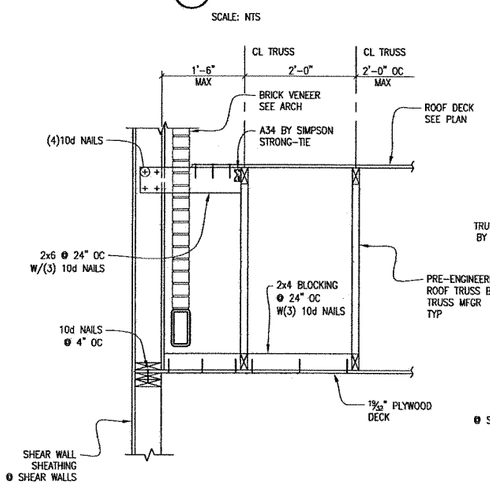
1 HEADER SCHEDULE
SCALE: NTS

LINTEL SCHEDULE			
WALL TYPE	UP TO 4'-0" OPENING	4'-1" TO 6'-0" OPENING	6'-1" TO 8'-6" OPENING
4" VENEER	L3½x3½x¼	L5x3½x5/16 (LLV)	L6x3½x5/16 (LLV)

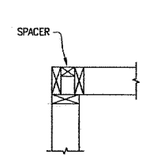
NOTES:
1. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
2. 8" BEARING @ EA END, MINIMUM.
3. PROVIDE ¼" CLOSURE PL BETWEEN LINTEL ANGLE AND WINDOW FRAME, DOOR FRAME OR BACK-UP WALL AS REQUIRED. WELD CLOSURE PL TO LINTEL ANGLE w/ CONTINUOUS WELD AND GRIND SMOOTH.



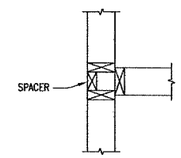
6 LINTEL SCHEDULE
SCALE: NTS



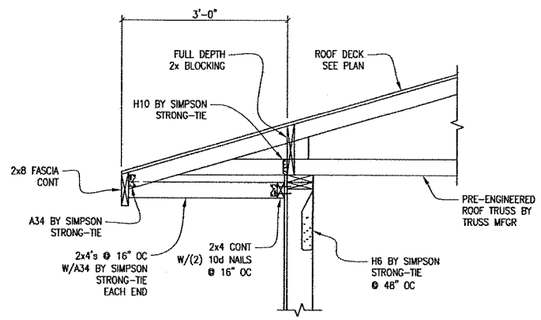
2 TYPICAL STUD WALL AT CORNER
SCALE: 3/4" = 1'-0"



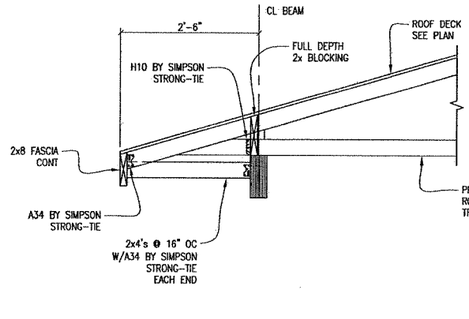
3 TYPICAL STUD WALL AT INTERSECTION
SCALE: 3/4" = 1'-0"

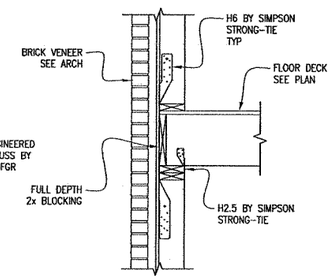


4 BEAM BEARING PERPENDICULAR TO WALL
SCALE: 3/4" = 1'-0"



5 BEAM BEARING PARALLEL TO WALL
SCALE: 3/4" = 1'-0"





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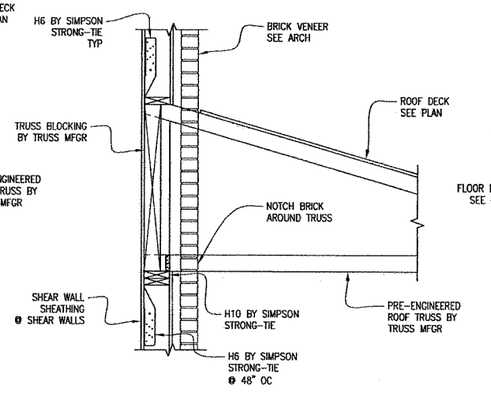

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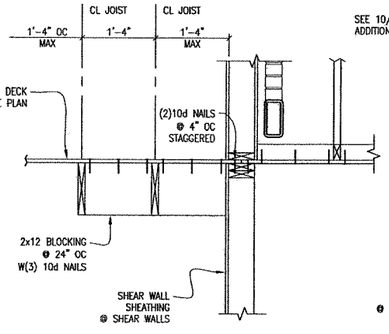
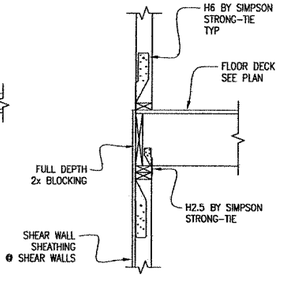


SEE 10/S-301 FOR ADDITIONAL INFORMATION



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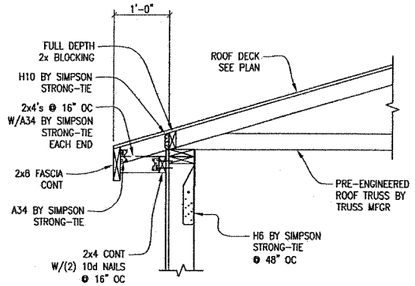

14
SCALE: 3/4" = 1'-0"

10
SCALE: 3/4" = 1'-0"

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

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

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

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE
12 Aug 2011

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

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Lowell, Arkansas
(479) 770-5800
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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
TYPICAL FRAMING DETIALS

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-301
REV	0

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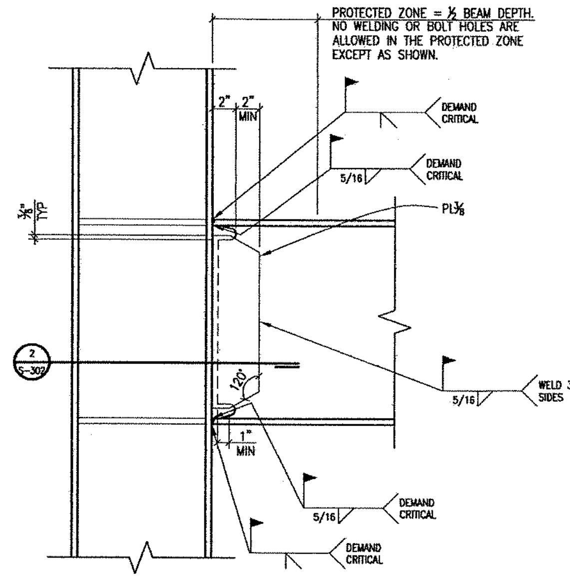
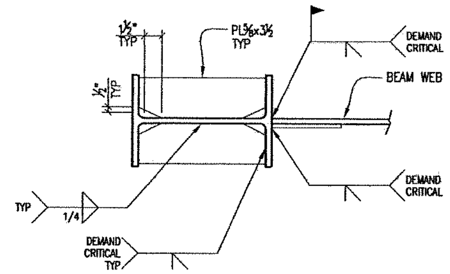


NOTE: SEE PLAN FOR SIZES & LOCATION.

1

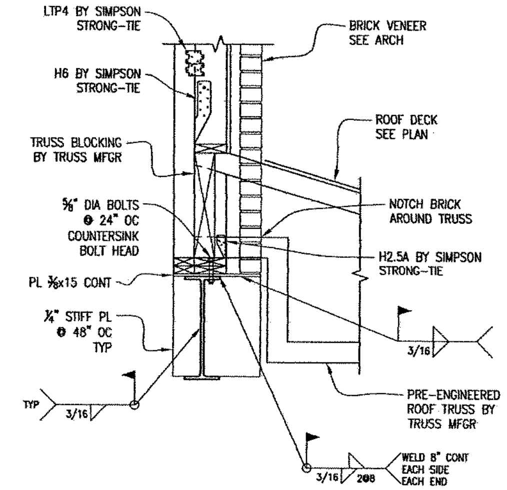
SCALE: 1 1/2" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

2

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



NOTE: SEE PLAN FOR SIZES & LOCATION.

3

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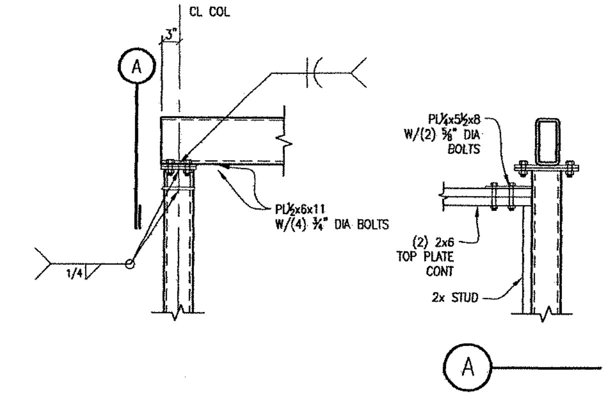
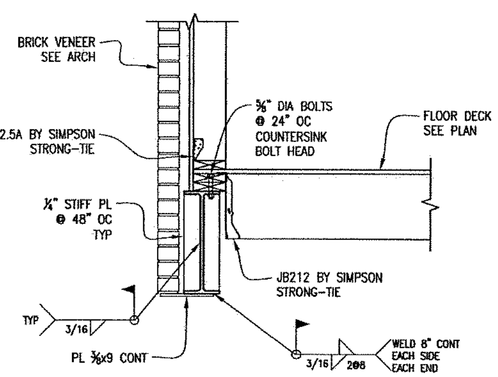


NOTE: SEE PLAN FOR SIZES & LOCATION.

4

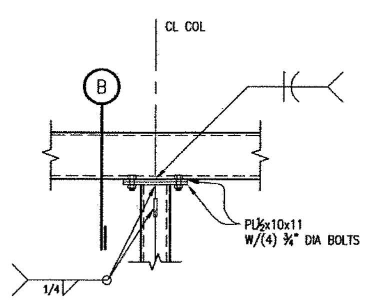
SCALE: 3/4" = 1'-0"

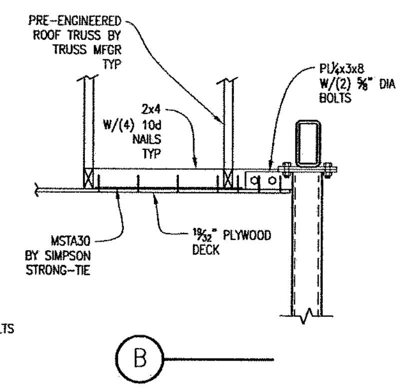


NOTE: SEE PLAN FOR SIZES & LOCATION.

5

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





NOTE: SEE PLAN FOR SIZES & LOCATION.

6

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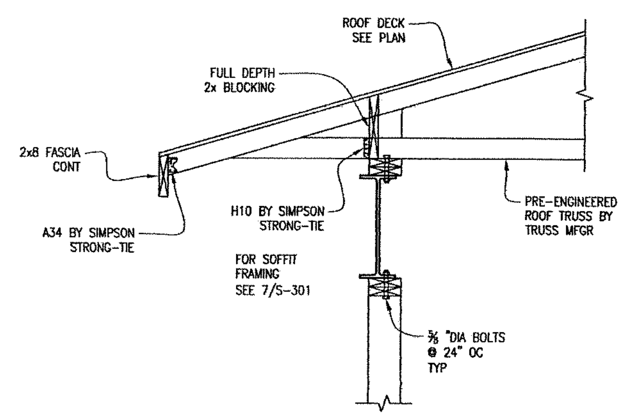
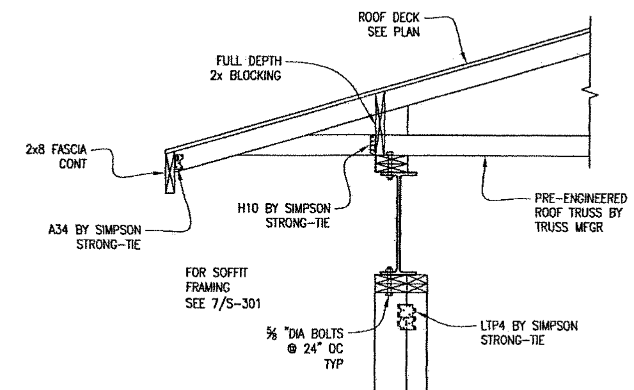


NOTE: SEE PLAN FOR SIZES & LOCATION.

7

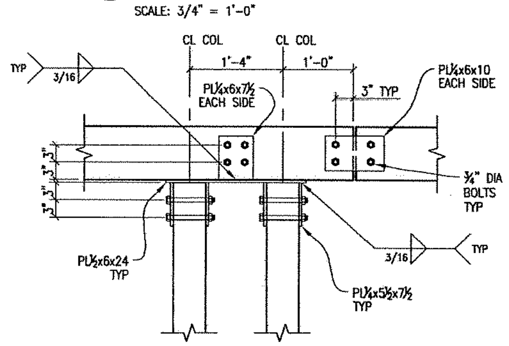
SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

8

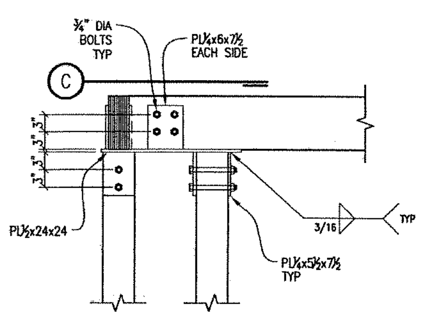
SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

9

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



NOTE: SEE PLAN FOR SIZES & LOCATION.

10

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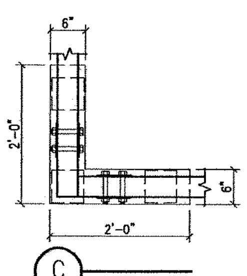

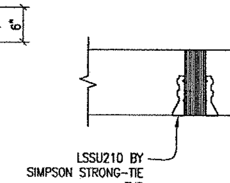

NOTE: SEE PLAN FOR SIZES & LOCATION.

11

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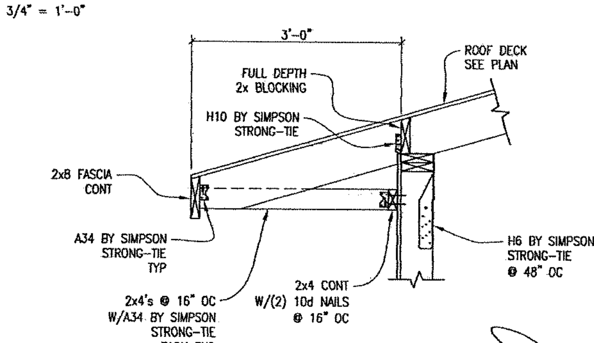

NOTE: SEE PLAN FOR SIZES & LOCATION.

12

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

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

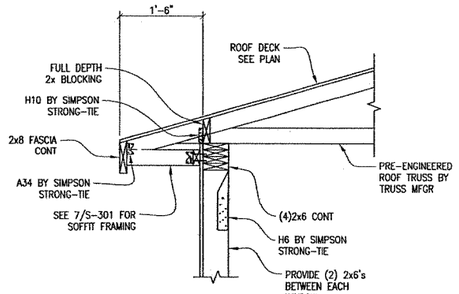
FRAMING DETAILS

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-302
REV	0

94 OF 120

Filename: S:\NWA Projects\11N034 West Helena Welcome Center\ECI Drawings\S-302.dwg Saved: 8/11/2011 3:35:45 PM By: Cad-1



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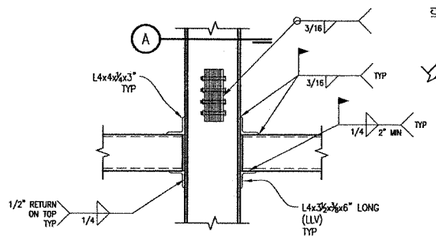
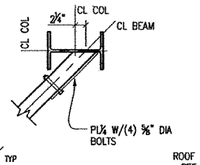
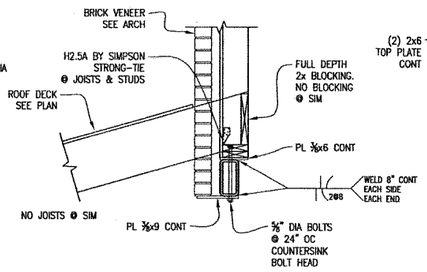
SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

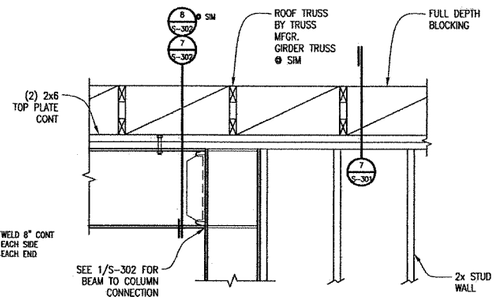
2
SCALE: 3/4" = 1'-0"





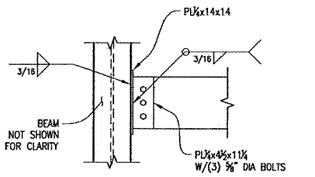
NOTE: SEE PLAN FOR SIZES & LOCATION.

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



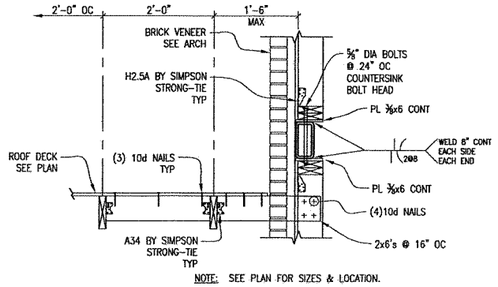
NOTE: SEE PLAN FOR SIZES & LOCATION.

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



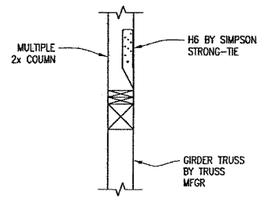
NOTE: SEE PLAN FOR SIZES & LOCATION.

5
SCALE: 3/4" = 1'-0"



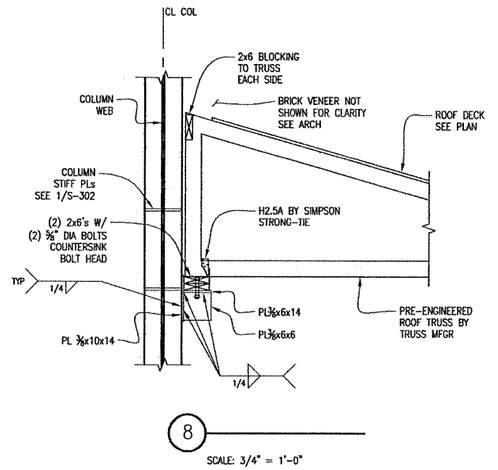
NOTE: SEE PLAN FOR SIZES & LOCATION.

6
SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

7
SCALE: 3/4" = 1'-0"



8
SCALE: 3/4" = 1'-0"

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

FRAMING DETAILS

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-303
REV	0
	95 OF 120

Filename: S:\WWA Projects\11NO34 West Helena Welcome Center\ECI Drawings\S-303.dwg Saved: 8/11/2011 3:35:44 PM By: Cad-1

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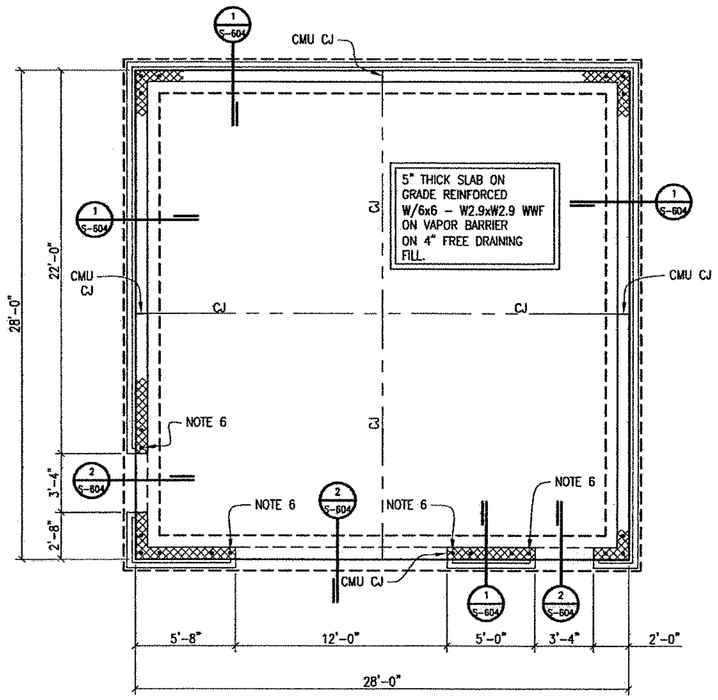


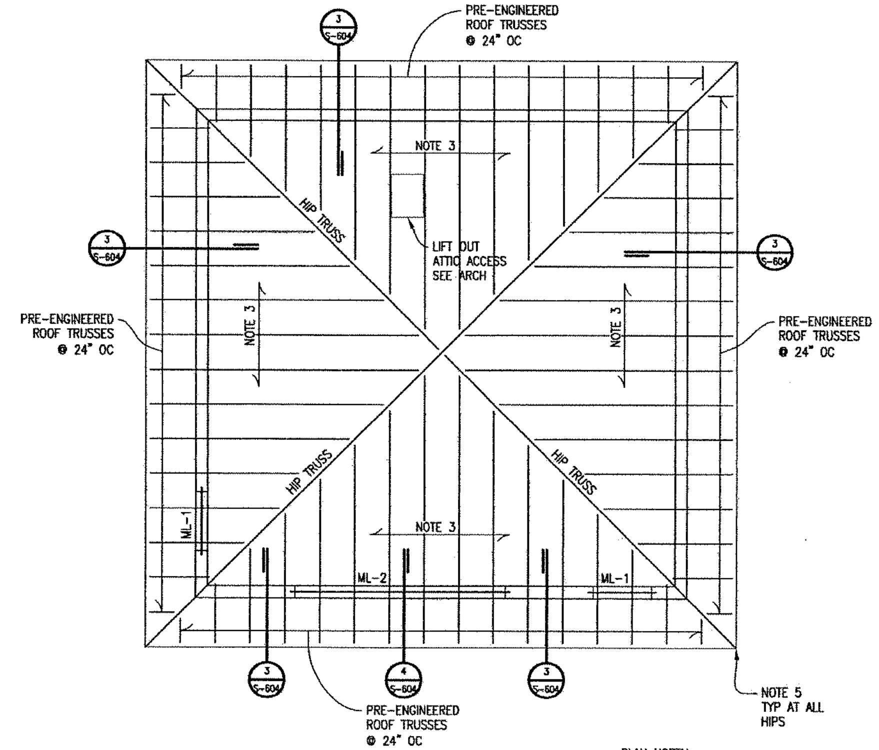
FOUNDATION PLAN

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

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:
1. TOP OF SLAB REFERENCE ELEVATION = 100.00' UNLESS NOTED.
2. TOP OF EXTERIOR FOOTING ELEVATION = 98.67' UNLESS NOTED.
3. SEE S-100 FOR GENERAL NOTES.
4. SEE S-201 FOR TYPICAL FOUNDATION DETAILS.
5. CJ REPRESENTS CONSTRUCTION JOINT OR CONTROL JOINT IN SLAB ON GRADE. SEE 5/S-201 & 6/S-201 FOR DETAILS.
6. PROVIDE 2 ADDITIONAL #4 VERTICAL BARS AT SIDE OF OPENING. GROUT CELLS SOLID.
7. SEE SITE PLAN FOR LOCATION OF MAINTENANCE BUILDING.
8. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.



ROOF FRAMING PLAN

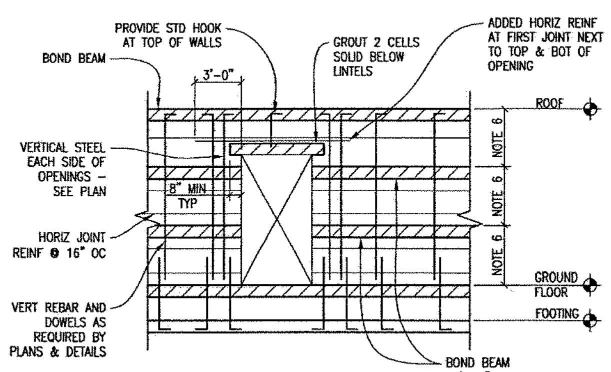
SCALE: 3/16" = 1'-0"

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:
1. TOP OF CMU ELEVATION = 110'-0".
2. TRUSS BEARING ELEVATION = 110'-3"
3. 19/32" PLYWOOD ROOF DECK.
4. SEE S-100 FOR GENERAL NOTES.
5. START 2x8 FASCIA AT HIPS. FASCIA TO BE CONTINUOUS 10'-0" PAST END OF HIP BEFORE SPLICE.

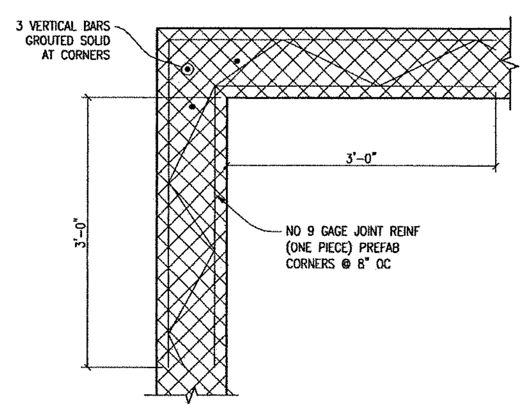
TRUSS NOTES.
1. ALL ROOF TRUSSES SHALL BE DESIGNED BY THE FABRICATOR TO SUPPORT 15 PSF DEAD LOAD ON TOP CHORD AND 10 PSF DEAD LOAD ON BOTTOM CHORD PLUS 20 PSF LIVE LOAD ON TOP CHORD PLUS 10 PSF LIVE LOAD ON BOTTOM CHORD UNLESS OTHERWISE NOTED, PLUS CODE WIND LOAD AND SNOW LOAD. WIND LOADINGS SHALL BE CALCULATED USING 6 PSF TOP CHORD DEAD LOAD AND 4 PSF BOTTOM CHORD DEAD LOAD.
2. SHOP DRAWINGS SHALL CONSIST OF LAYOUT PLANS, PERMANENT BRACING, AND CONNECTION DETAILS. STRUCTURAL CALCULATIONS AND COMPUTER PRINTOUTS SHOWING THE DESIGN FORCES IN EACH MEMBER AND REACTIONS FOR THE TRUSSES SHALL ACCOMPANY SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE RECOMMENDATIONS FOR TRUSS ERECTION AND TEMPORARY BRACING REQUIRED IN THE CONSTRUCTION PHASE.
3. SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE PROJECTS JURISDICTION SHALL BE SUBMITTED FOR APPROVAL. OBTAIN OWNER'S APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
5. NUMBER 3 GRADE LUMBER WILL NOT BE ALLOWED FOR CHORDS OR WEB MEMBERS.
6. MINIMUM TRUSS PLATE SIZE SHALL BE 3"x5" OR 4"x4" EACH SIDE OF TRUSS AT ALL JOINTS
7. MINIMUM CONTACT AREAS FOR TRUSS PLATES SHALL BE 3.75 SI ON EACH MEMBER AT ALL JOINTS, EACH SIDE OF TRUSS.
8. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.



NOTES:
1. HORIZONTAL JOINT REINF SHALL BE DUR-O-WAL OR APPROVED EQUAL. TRUSS TYPE FORMED OF NO 9 GAGE LONGITUDINAL & CROSS WIRES.
2. ALL CELLS CONTAINING VERTICAL REINF SHALL BE GROUTED SOLID.
3. BOND BEAM HORIZONTAL REINF SHALL BE CONTINUOUS THRU CONTROL JOINT.
4. ALL BARS TO BE CONTINUOUS AT WALL CORNERS AND INTERSECTIONS.
5. PROVIDE 48 BAR DIAMETER LAP SPLICES.
6. MAXIMUM SPACING OF BOND BEAMS SHALL BE THE SMALLER OF ⅓ THE WALL LENGTH, ⅓ THE WALL HEIGHT, OR 4'-0".

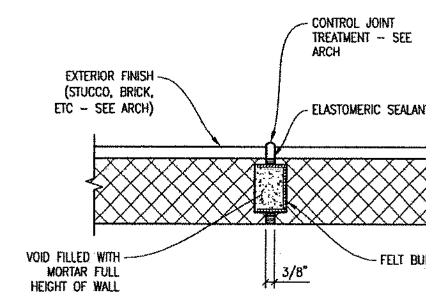
1 SPECIAL REINFORCED MASONRY WALL ELEVATION

SCALE: NTS



2 CORNER REINFORCING DETAIL

SCALE: NTS



3 CONTROL JOINT AT EXTERIOR WALL

NTS

CMU LINTEL SCHEDULE				
MARK	TYPE	WIDTH	DEPTH	REINFORCING
ML-1	A	8"	8"	2 #4's BOTTOM
ML-2	A	8"	24"	2 #4's TOP & BOTTOM

TYPE "A" BOND BEAM

1. MINIMUM CONCRETE STRENGTH f'c = 3000 Psi.
2. SHORING OF BOND BEAMS IS REQUIRED.
3. SEE DETAIL 4/S-604 FOR 24"DEEP BOND BEAM.

4 CMU LINTEL SCHEDULE

SCALE: NTS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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(479) 770-5801

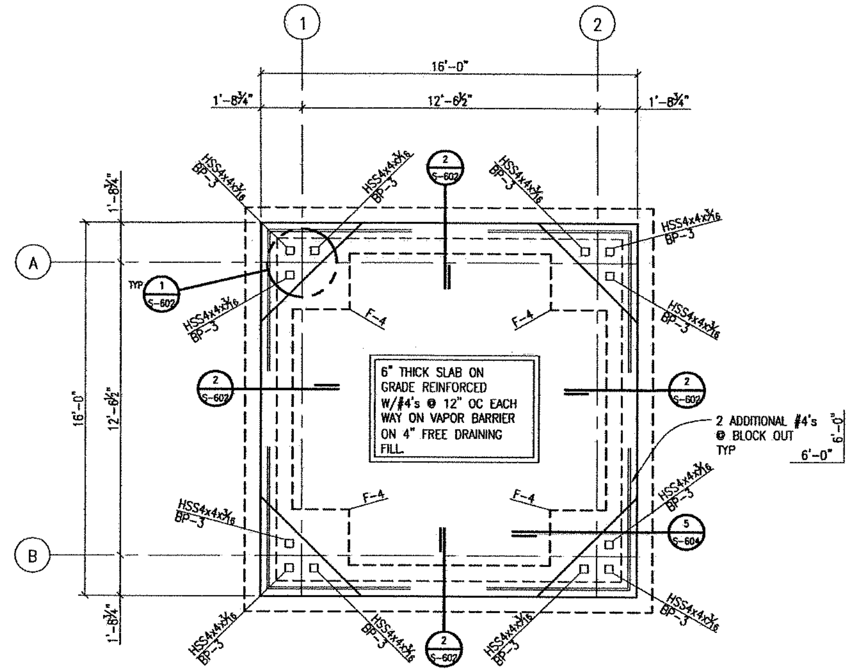
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MAINTENANCE BUILDING

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-601
REV	0



FOUNDATION PLAN

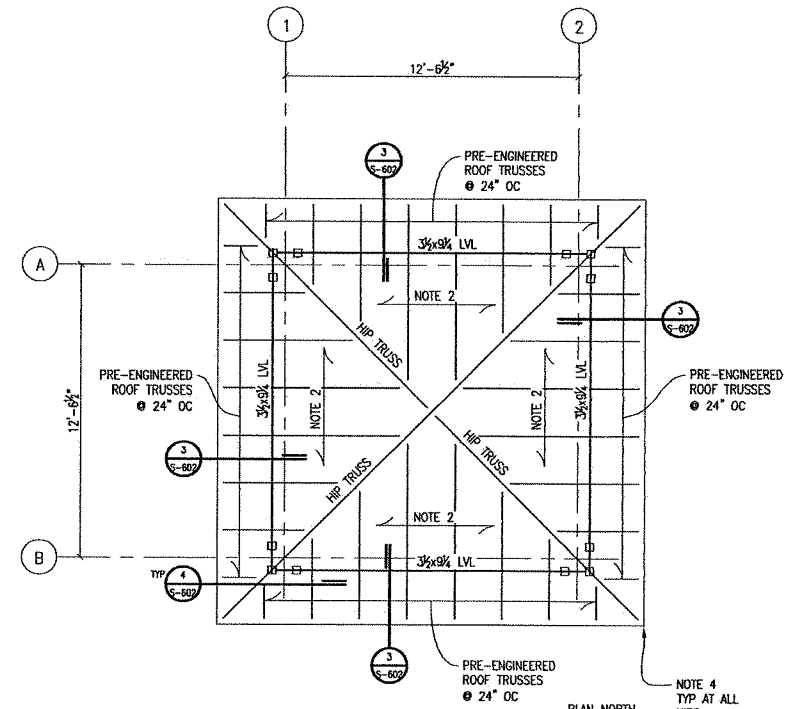
SCALE: 1/4" = 1'-0"

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:

1. TOP OF SLAB REFERENCE ELEVATION = 100.0' UNLESS NOTED.
2. TOP OF EXTERIOR FOOTING ELEVATION = 99.0' UNLESS NOTED.
3. SEE S-100 FOR GENERAL NOTES.
4. SEE S-201 FOR TYPICAL FOUNDATION DETAILS.
5. SEE S-201 FOR FOOTING SCHEDULE.
6. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
7. SEE SITE PLAN FOR PICNIC PAVILION LOCATIONS.
8. COLUMN FOOTINGS SHALL BE CENTERED ON COLUMN GRID UNLESS NOTED OTHERWISE.



ROOF FRAMING PLAN

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

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:

1. TOP OF BEAM ELEVATION IS 109'-2" UNLESS NOTED.
2. 19/32" PLYWOOD ROOF DECK.
3. SEE S-100 FOR GENERAL NOTES.
4. START 2x8 FASCIA AT HIPS. FASCIA TO BE CONTINUOUS 10'-0" PAST END OF HIP BEFORE SPLICE.

TRUSS NOTES.

1. ALL ROOF TRUSSES SHALL BE DESIGNED BY THE FABRICATOR TO SUPPORT 15 PSF DEAD LOAD ON TOP CHORD AND 10 PSF DEAD LOAD ON BOTTOM CHORD PLUS 20 PSF LIVE LOAD ON TOP CHORD PLUS 10 PSF LIVE LOAD ON BOTTOM CHORD UNLESS OTHERWISE NOTED, PLUS CODE WIND LOAD AND SNOW LOAD. WIND LOADINGS SHALL BE CALCULATED USING 6 PSF TOP CHORD DEAD LOAD AND 4 PSF BOTTOM CHORD DEAD LOAD.
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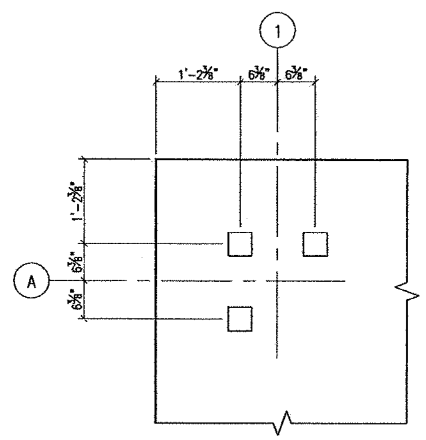
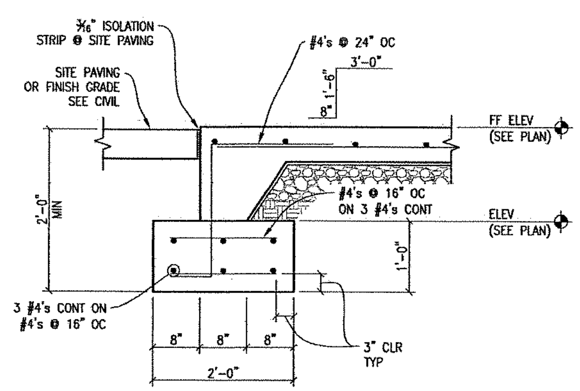
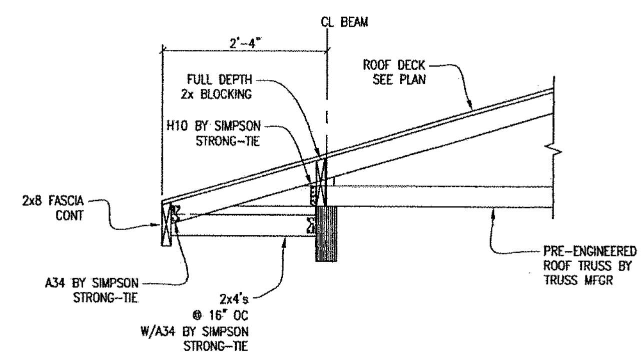
3. SHOP DRAWINGS BEARING THE SEAL AND SIGNATURE OF AN ENGINEER REGISTERED IN THE PROJECTS JURISDICTION SHALL BE SUBMITTED FOR APPROVAL. OBTAIN OWNER'S APPROVAL PRIOR TO FABRICATION.
4. CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
5. NUMBER 3 GRADE LUMBER WILL NOT BE ALLOWED FOR CHORDS OR WEB MEMBERS.
6. MINIMUM TRUSS PLATE SIZE SHALL BE 3"x5" OR 4"x4" EACH SIDE OF TRUSS AT ALL JOINTS
7. MINIMUM CONTACT AREAS FOR TRUSS PLATES SHALL BE 3.75 SI ON EACH MEMBER AT ALL JOINTS, EACH SIDE OF TRUSS.
8. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.



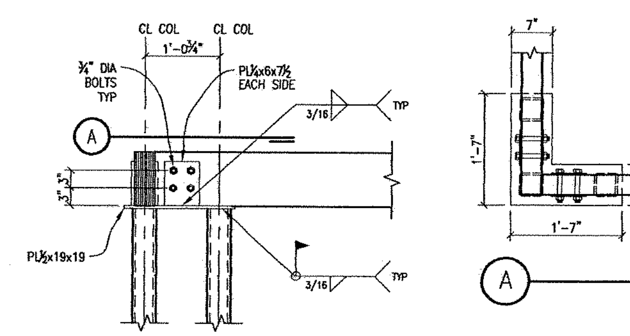
1 — SCALE: 3/4" = 1'-0"



2 — SCALE: 3/4" = 1'-0"



3 — SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

4 — SCALE: 3/4" = 1'-0"

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(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PICNIC PAVILION

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-602
REV	0

97 OF 120

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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

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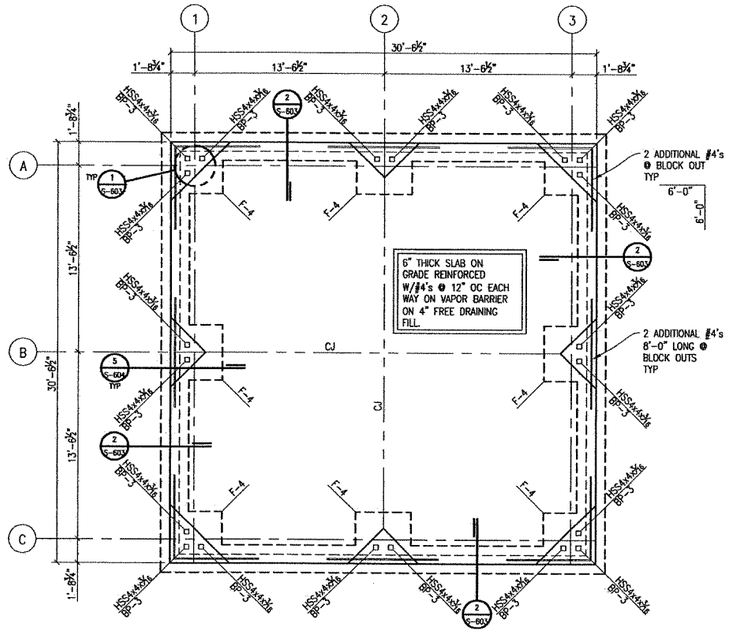


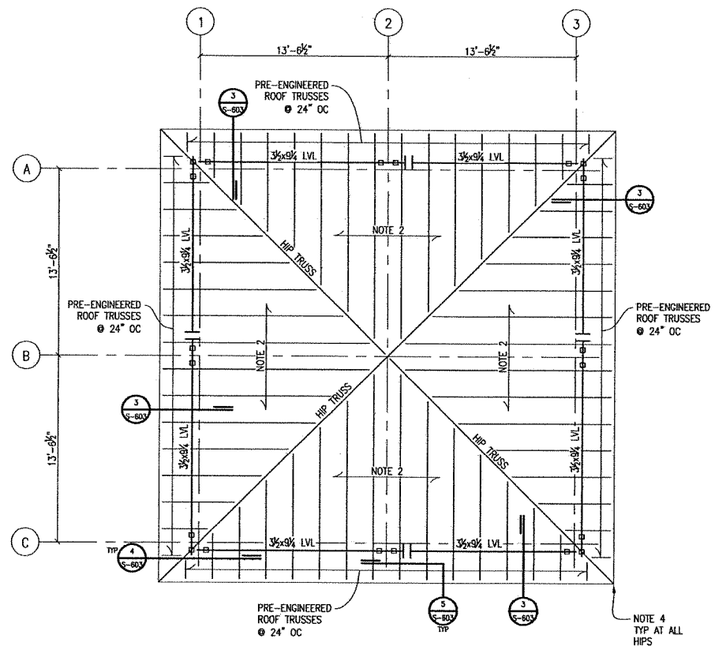
FOUNDATION PLAN

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

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:
1. TOP OF SLAB REFERENCE ELEVATION = 100.0' UNLESS NOTED.
2. TOP OF EXTERIOR FOOTING ELEVATION = 99.0' UNLESS NOTED.
3. SEE S-100 FOR GENERAL NOTES.
4. SEE S-201 FOR TYPICAL FOUNDATION DETAILS.
5. SEE S-201 FOR FOOTING SCHEDULE.
6. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
7. SEE SITE PLAN FOR FAMILY PICNIC PAVILION LOCATION.
8. CJ REPRESENTS CONSTRUCTION JOINT OR CONTROL JOINT IN SLAB-ON-GRADE. SEE DETAIL 5/S-201 AND 6/S-201.
9. COLUMN FOOTINGS SHALL BE CENTERED ON COLUMN GRIDS. UNLESS NOTED OTHERWISE.



ROOF FRAMING PLAN

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

PLAN NORTH

SEE ARCH FOR TRUE NORTH

PLAN NOTES:
1. TOP OF BEAM ELEVATION IS 109'-2" UNLESS NOTED.
2. 19/32" PLYWOOD ROOF DECK.
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4. START 2x8 FASCIA AT HIPS. FASCIA TO BE CONTINUOUS 10'-0" PAST END OF HIP BEFORE SPLICE.

TRUSS NOTES.
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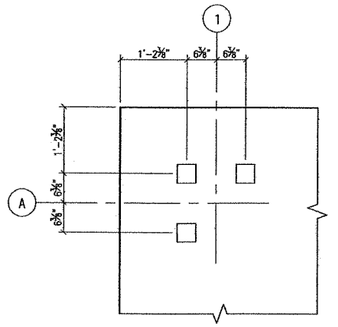
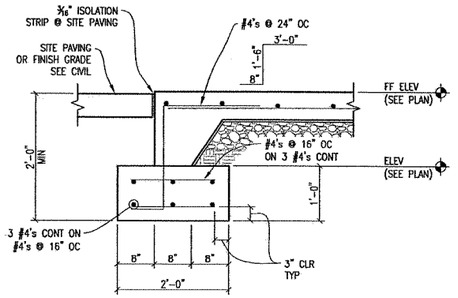
7. MINIMUM CONTACT AREAS FOR TRUSS PLATES SHALL BE 3.75 SI ON EACH MEMBER AT ALL JOINTS, EACH SIDE OF TRUSS.
8. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES.
9. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.



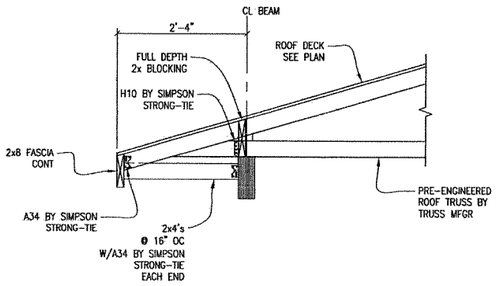
1

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



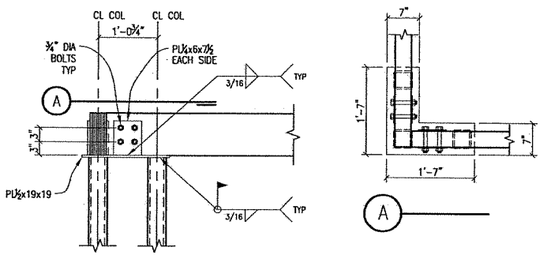
2

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



3

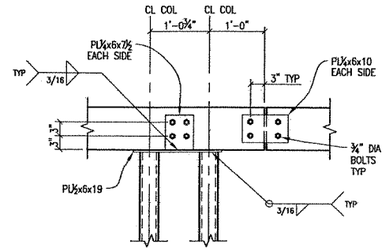
SCALE: 3/4" = 1'-0"



NOTE: SEE PLAN FOR SIZES & LOCATION.

4

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



NOTE: SEE PLAN FOR SIZES & LOCATION.

5

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

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 6485
DONALD W. WHITMIRE
12 Aug 2011

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

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(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUED FOR CONSTRUCTION	DWW	DWW

ARKANSAS WELCOME CENTER

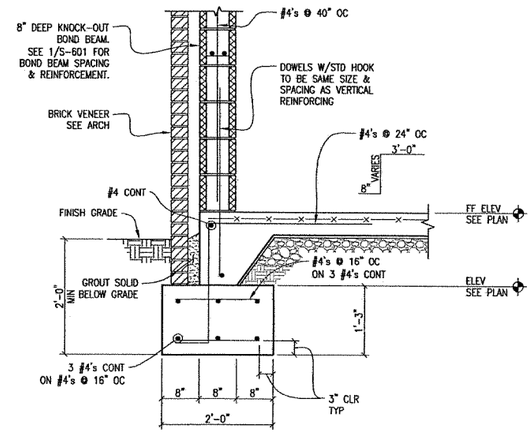
West Helena, Arkansas
AHTD Job No. 110536

FAMILY PICNIC PAVILION

DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

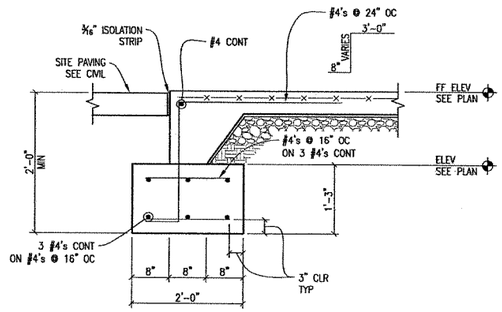
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-603
REV	0

98 OF 120



1

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



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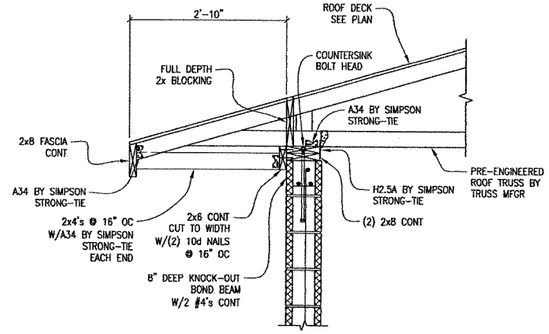
SCALE: 3/4" = 1'-0"



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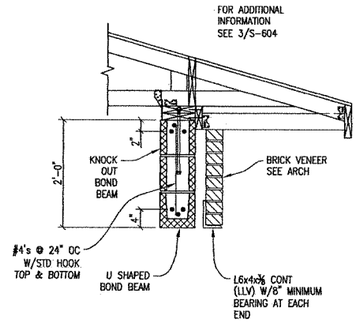
SCALE: 3/4" = 1'-0"



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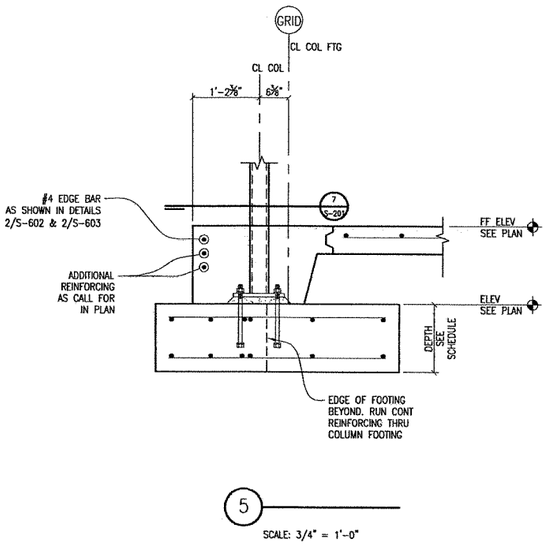
SCALE: 3/4" = 1'-0"



5

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

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

DETAILS

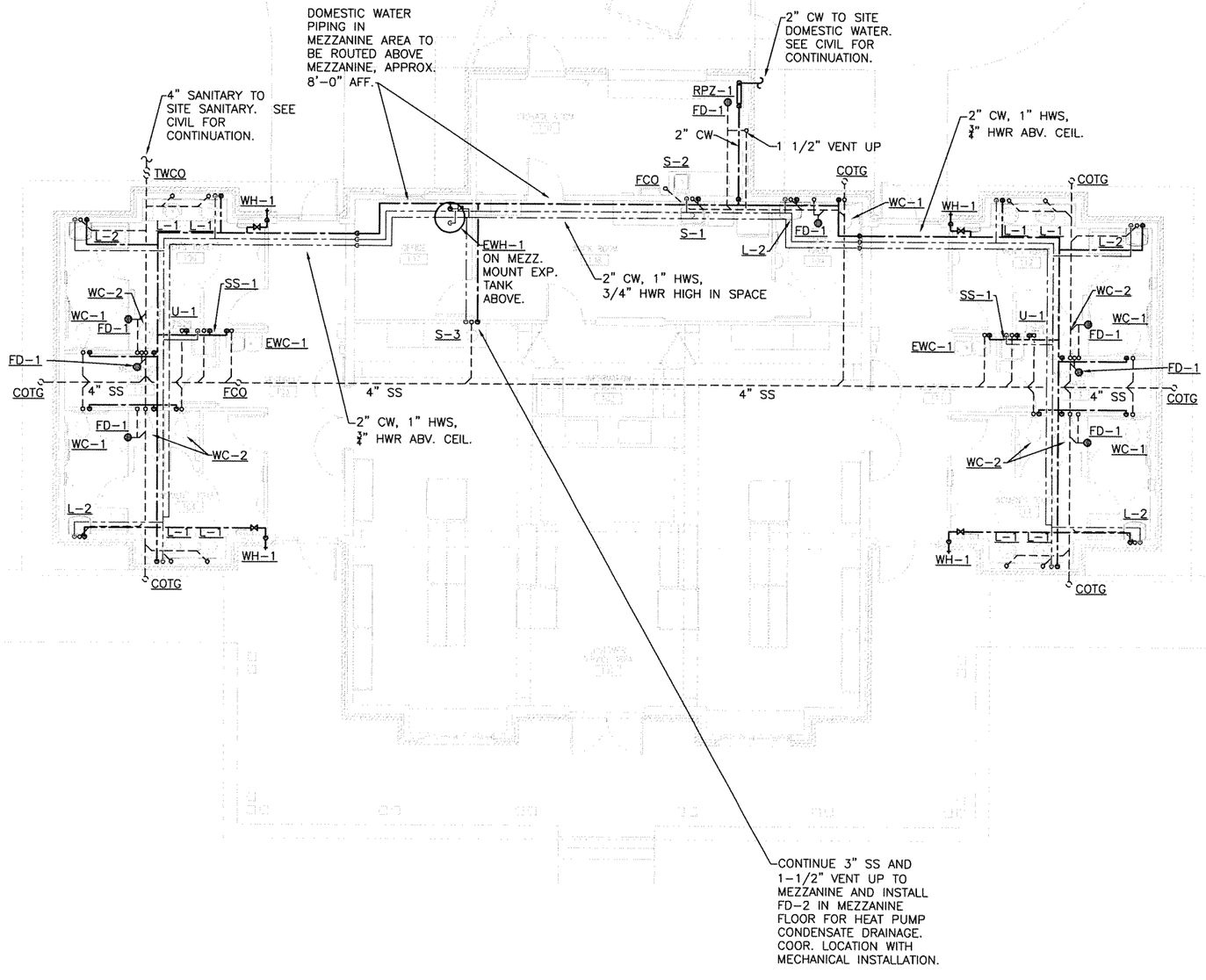
DESIGNED BY	JES
DRAWN BY	JES
CHECKED BY	DWW
APPROVED BY	DWW

DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	S-604
REV	0
	99 OF 120

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

12 Aug 2011

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



A P-101 FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

6' 3' 0 5' 10'
3/16" = 1'-0"

CERTIFICATE OF AUTHORIZATION
SAIC
Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11074
LEE E. SUGGS

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(479) 770-5800
(479) 770-5801

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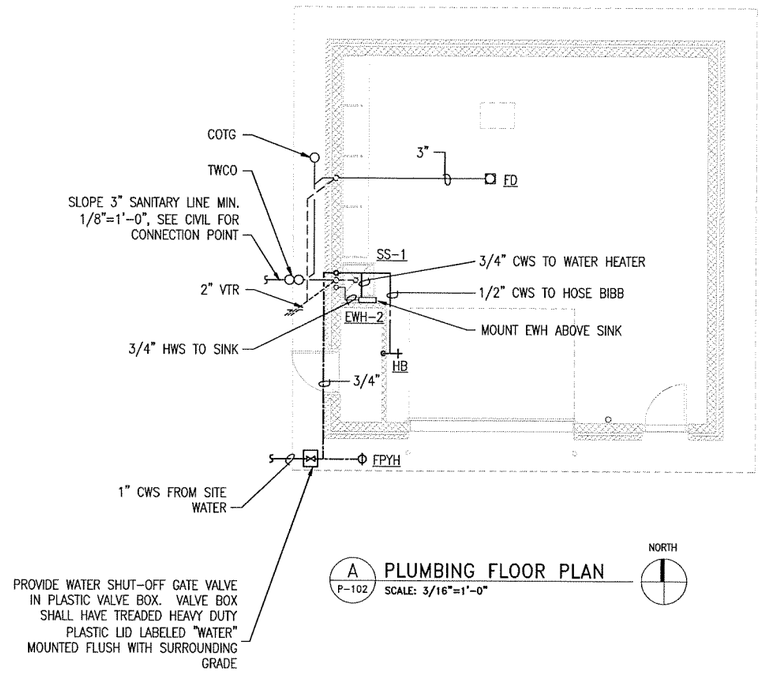
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PLUMBING FLOOR PLAN

DESIGNED BY	TBC
DRAWN BY	AMB
CHECKED BY	TBC
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	P-101
REV	0

100 OF 120



A / P-102 PLUMBING FLOOR PLAN
SCALE: 3/16"=1'-0"

6' 3' 0 5' 10'
3/16" = 1'-0"

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 17074
LEE E. SUGGS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MAINTENANCE BUILDING PLUMBING PLAN

DESIGNED BY	TBC
DRAWN BY	AMB
CHECKED BY	TBC
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	P-102
REV	0

101 OF 120

Filename: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\A\0160_A-101.dwg Saved: 3/11/2011 11:28:54 AM By: bradelhoeftms
Xrefs: P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\0160_G-BS01.dwg P:\LOW\FAC\6351016000_AHTDWestHelena\20_DESGN\40_CAD\0160_A-FP01.dwg

WATER HEATER SCHEDULE

MARK	TYPE	MANUFACTURER & MODEL	CAPACITY GALS	INPUT CAPACITY	GPM/HR	TEMP. RISE °F	NOTES
EWH-1	ELEC. - TANK	AO SMITH DRE-52	50	9.0 KW	46 GPM	90°	1, 2
EWH-2	ELEC. - INSTANT	BOSCH AE115	2.0 GPM	17.5 KW	---	60°	3

NOTES:
1. 230V/1ø, 38 AMPS. SET DISCHARGE TEMP. AT 110°F (ADJ).
2. PROVIDE HOT WATER CIRCULATOR PUMP HWCP-1.
3. 230V/1ø, 80 AMPS. SET DISCHARGE TEMP. AT 110°F (ADJ).

SPECIALTIES SCHEDULE

PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	PIPE SIZE	NOTES
WH-1	WALL HYDRANT	MIFAB	MHY-10	3/4"	1
HB-1	HOSE BIBB	MIFAB	MHY-90	3/4"	2
FPYH	NON-FREEZE YARD HYDRANT	WOODFORD	Y34	3/4"	3

NOTES:
1. ANTI-SYPHON, NON-FREEZE, W/LOOSE T-KEY OPERATOR. COORDINATE WALL THICKNESS.
2. ANTI-SYPHON HYDRANT WITH CAST IRON WHEEL HANDLE.
3. SELF-DRAINING NON-FREEZE YARD HYDRANT. MINIMUM 2' BURY DEPTH. PROVIDE 2'X2'X6" PIP CONCRETE PAD SURROUNDING BASE FLUSH WITH GRADE FOR ANCHORAGE.

FIXTURE SCHEDULE

PLAN MARK	FIXTURE TYPE	HW	CW	WASTE	VENT	FIXTURE DESCRIPTION	FAUCET/VALVE	ACCESSORIES/REMARKS
WC-1	WATER CLOSET	-	1"	4"	2"	FLOOR MOUNTED SIPHON JET, HIGH EFFICIENCY - MAXIMUM 1.28 GPF, ELONGATED RIM, 2-1/4" MIN. PASSAGEWAY, 1-1/2" TOP SPUD AMERICAN STANDARD MADERA FLOWISE 15" HEIGHT OR EQUAL	EXPOSED, HARDWIRED, SENSOR OPERATED, VACUUM BREAKER, MANUAL OVERRIDE, 1.28 GPF ZURN ZEMS6000 OR EQUAL	WHITE FIXTURE HEAVY DUTY OPEN FRONT SEAT (WHITE) - LESS COVER
WC-2	WATER CLOSET (ADA)	-	1"	4"	2"	FLOOR MOUNTED SIPHON JET, HIGH EFFICIENCY - MAXIMUM 1.28 GPF, ELONGATED RIM, 2-1/4" MIN. PASSAGEWAY, 1-1/2" TOP SPUD AMERICAN STANDARD MADERA FLOWISE 17" HEIGHT OR EQUAL	SAME AS WC-1	SAME AS WC-1
U-1	URINAL (ADA)	-	3/4"	3"	2"	WALL MOUNTED, HIGH EFFICIENCY - MAXIMUM 0.5 GPF, ELONGATED FLUSHING RIM, 3/4" TOP SPUD AMERICAN STANDARD WASHBROOK FLOWISE OR EQUAL	EXPOSED, HARDWIRED, SENSOR OPERATED, VACUUM BREAKER, MANUAL OVERRIDE, 0.5 GPF ZURN ZEMS6003 OR EQUAL	WHITE FIXTURE - MOUNT TO ADA REQUIREMENTS. STAINLESS STEEL STRAINER FLOOR SUPPORTED CARRIER
L-1	LAVATORY COUNTER MOUNT	1/2"	1/2"	1 1/2"	1 1/2"	20"x17" OVAL, VITREOUS CHINA, SELF RIMMING, 4" CENTERS, OVERFLOW KOHLER K-2196 OR EQUAL	HARDWIRED, SENSOR OPERATED, MOUNTED ON 4" CENTERS, 4" COVER PLATE, 0.5 GPM AERATOR, THERMOSTATIC MIXING VALVE. ZURN Z6915 OR EQUAL	WHITE FIXTURE OPEN GRID STRAINER WITH TAIL PIECE PROVIDE TRANSFORMER FOR HARDWIRED OPERATION
L-2	LAVATORY WALL MOUNT	1/2"	1/2"	1 1/2"	1 1/2"	19"x17" BOWL, VITREOUS CHINA, WALL MOUNT, 4" CENTERS, OVERFLOW KOHLER K-1722 OR EQUAL MOUNT TO ADA REQUIREMENTS	HARDWIRED, SENSOR OPERATED, MOUNTED ON 4" CENTERS, 4" COVER PLATE, 0.5 GPM AERATOR, THERMOSTATIC MIXING VALVE. ZURN Z6915 OR EQUAL	WHITE FIXTURE W/ HEAVY DUTY WALL CARRIER OPEN GRID STRAINER WITH TAIL PIECE PROVIDE TRANSFORMER FOR HARDWIRED OPERATION INSULATE SUPPLIES/DRAIN W/ TRUBRO LAV-SHIELD OR EQUAL
EWC-1	ELECTRIC WATER COOLER	-	1/2"	1 1/2"	1 1/2"	REFRIGERATED, BI-LEVEL, LEAD-FREE WATERWAY, FRONT AND SIDE PUSH PADS OASIS MODEL P8ACSL OR EQUAL		ADA COMPLIANT INSTALLATION VINYL FINISH COLOR SELECTED BY ARCHITECT
SS-1	JANITORS SINK	3/4"	3/4"	3"	2"	24"x24"x12" HIGH MOLDED STONE JANITORS SINK, 3" DRAIN, STAINLESS EDGE CAPS FIAT TSB-100 OR EQUAL	CHICAGO FAUCET #835-CP OR EQUAL.	INTEGRAL STOPS, PAIL HOOK, VACUUM BREAKER, CHROME PLATED, WALL MOUNTED AT 24" A.F.F., WALL BRACE, 3/4" HOSE END CONNECTION.
S-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"	15"X15"X6" DEEP SELF RIMMING, SINGLE BOWL, 18 GAUGE 304 STAINLESS STEEL, 3 HOLES AT 4" CENTERS ELKAY BLH15C OR EQUAL.	DECK MOUNTED WIDE SPREAD FAUCET, 2.2 GPM AERATOR, WRISTBLADE HANDLES, 8" SWING SPOUT ELKAY LKD2438 OR EQUAL	ANGLE STOPS, CHROME ESCUTCHEONS, 1/2" OD FLEXIBLE RISERS BASKET STRAINER WITH TAIL PIECE.
S-2	SINK	1/2"	1/2"	1 1/2"	1 1/2"	25"X22"X6" DEEP SELF RIMMING, SINGLE BOWL, 18 GAUGE 304 STAINLESS STEEL, 3 HOLES AT 4" CENTERS ELKAY LRAD2522 OR EQUAL.	DECK MOUNTED WIDE SPREAD FAUCET, 2.2 GPM AERATOR, WRISTBLADE HANDLES, 8" SWING SPOUT ELKAY LKD2438 OR EQUAL	ANGLE STOPS, CHROME ESCUTCHEONS, 1/2" OD FLEXIBLE RISERS BASKET STRAINER WITH TAIL PIECE.
S-3	COFFEE SINK	1/2"	1/2"	1 1/2"	1 1/2"	18 GA. STAINLESS STEEL ROUND ADA UNDERMOUNT SINK KOHLER K-2610-S OR EQUAL.	COUNTER MOUNTED POLISHED CHROME ADA GOOSENECK FAUCET, DECORATIVE BLADE HANDLES, 2.2 GPM AERATOR KOHLER K-16112-A4-BN OR EQUAL	
FD-1	FLOOR DRAIN (TOILET ROOM)	-	-	3"	2"	WADE 1103STD5 OR EQUAL		JOSAM 88300 SERIES TRAP PRIMER W/ INTEGRAL BACKFLOW PREVENTER, AND VACUUM BREAKER DISTRIBUTION UNIT FOR USE WITH 2-4 FLOOR DRAINS
FD-2	FLOOR DRAIN (GENERAL LIGHT DUTY)	-	-	3"	2"	WADE 1103STD5 OR EQUAL		
HWCP-1	HOT WATER CIRC. PUMP	3/4"	-	-	-	TACO MODEL INLINE 110 CIRCULATOR PUMP BRONZE PUMP BODY, 120V 10 GPM AT 7.5 FT HEAD	PROVIDE WITH 24HR ADJUSTABLE TIMECLOCK CONTROLLER	
TP-1	TRAP PRIMER	-	1/2"	-	-	AUTOMATIC TRAP PRIMER PPP MODEL P1 OR EQUAL PROVIDE DISTIRUBUTION MANIFOLD WHERE REQUIRED		ROUTE $\frac{1}{2}$" CW TO EACH FLOOR DRAIN PRIMER CONNECTION

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11074 LEE E. SUGGS

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

PLUMBING SCHEDULES

DESIGNED BY	TBC
DRAWN BY	AMB
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APPROVED BY	TBC

DATE	08/15/11
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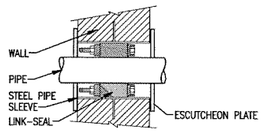
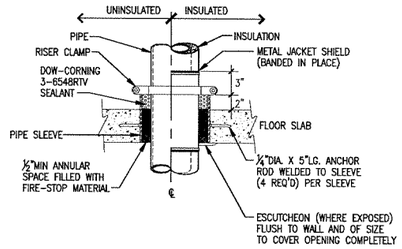
SHEET	P-201
REV	0

102 OF 120

COPPER TUBING TYPE K-L-M	
PIPE SIZES	SLEEVE OPENING
⅜"-3"	1"LARGER THAN PIPE O.D.
4"	1½"LARGER THAN PIPE O.D.
CAST IRON-CLASS "A"	
PIPE SIZES	SLEEVE OPENING
2"-3"	1½"LARGER THAN PIPE O.D.
4"-6"	3"LARGER THAN PIPE O.D.
STEEL PIPE	
PIPE SIZES	SLEEVE OPENING
½"-1½"	1"LARGER THAN PIPE O.D.
2"-3"	1½"LARGER THAN PIPE O.D.
4"-8"	2"LARGER THAN PIPE O.D.



1 P-301 TYPICAL EXTERIOR WALL PIPE PENETRATION DETAIL
NO SCALE



2 P-301 TYPICAL PIPE THRU FLOOR
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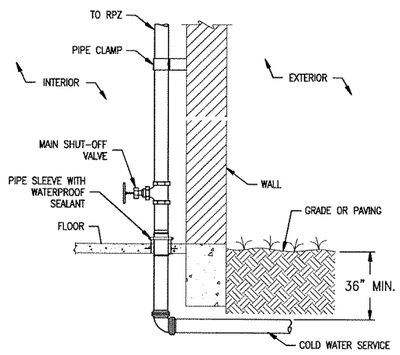

3 P-301 TYPICAL COLD WATER ENTRY DETAIL
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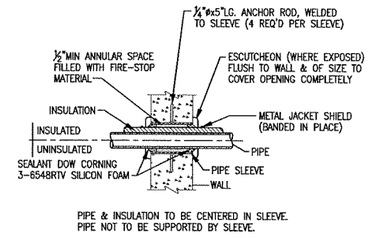
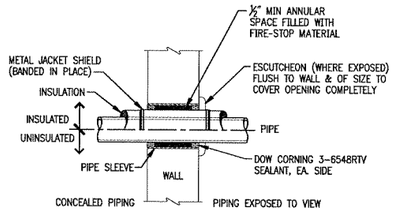


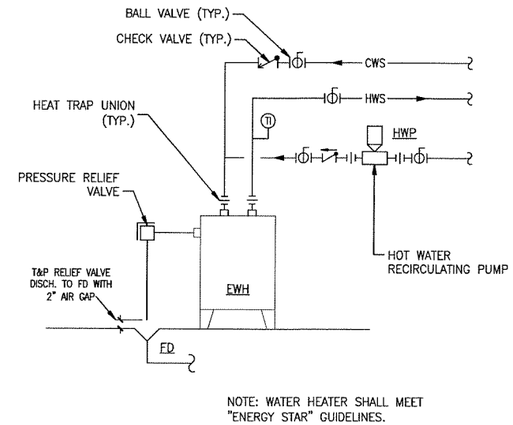
PIPE & INSULATION TO BE CENTERED IN SLEEVE.
PIPE NOT TO BE SUPPORTED BY SLEEVE.

4 P-301 TYPICAL PIPE THRU INTERIOR CONCRETE WALL
NO SCALE



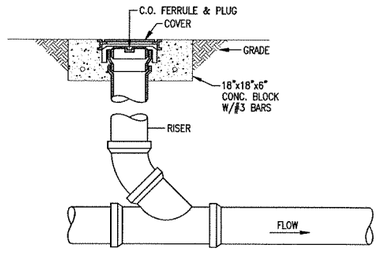
NOTE: SUPPORT PIPE INDEPENDENTLY OF SLEEVE AND WALL. CENTER PIPE AND INSULATION IN SLEEVE.

5 P-301 TYPICAL PIPE THRU WALL
NO SCALE

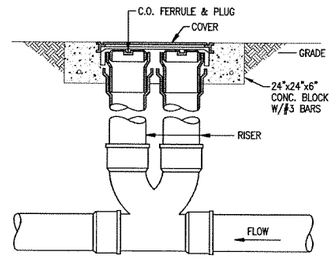


NOTE: WATER HEATER SHALL MEET "ENERGY STAR" GUIDELINES.

6 P-301 TYPICAL HOT WATER HEATER DIAGRAM
NO SCALE



7 P-301 TYPICAL EXTERIOR CLEANOUT DETAIL
NO SCALE



8 P-301 TYPICAL TWO-WAY CLEANOUT DETAIL
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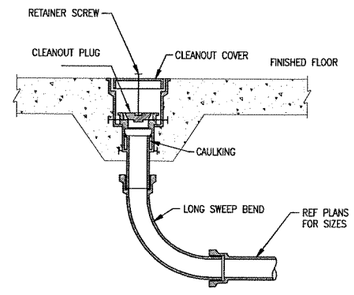

9 P-301 TYPICAL INTERIOR CLEANOUT DETAIL
NO SCALE

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ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
PLUMBING DETAILS

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APPROVED BY	TBC
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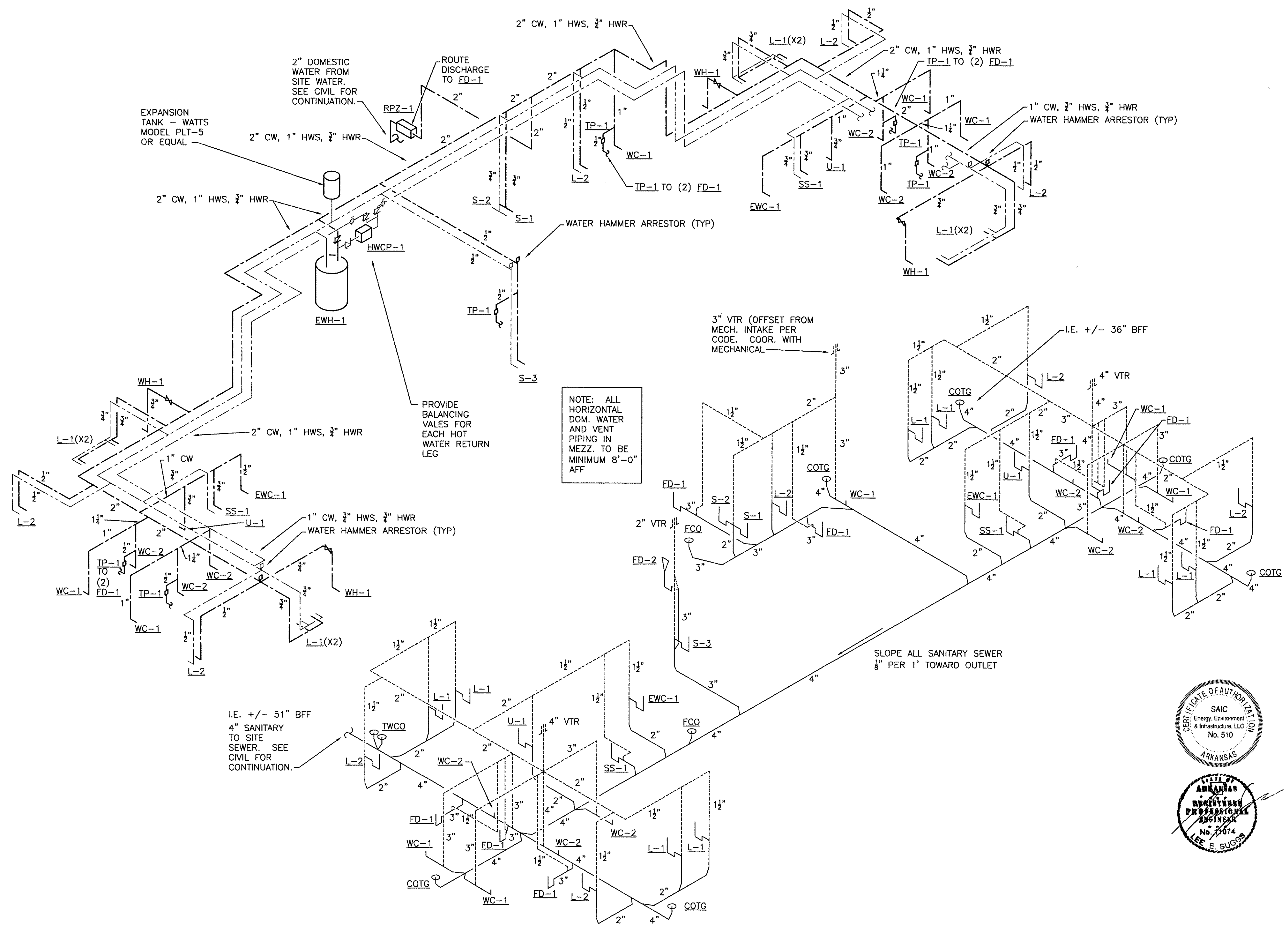
REV	0



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PLUMBING RISER DIAGRAMS

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REV	0

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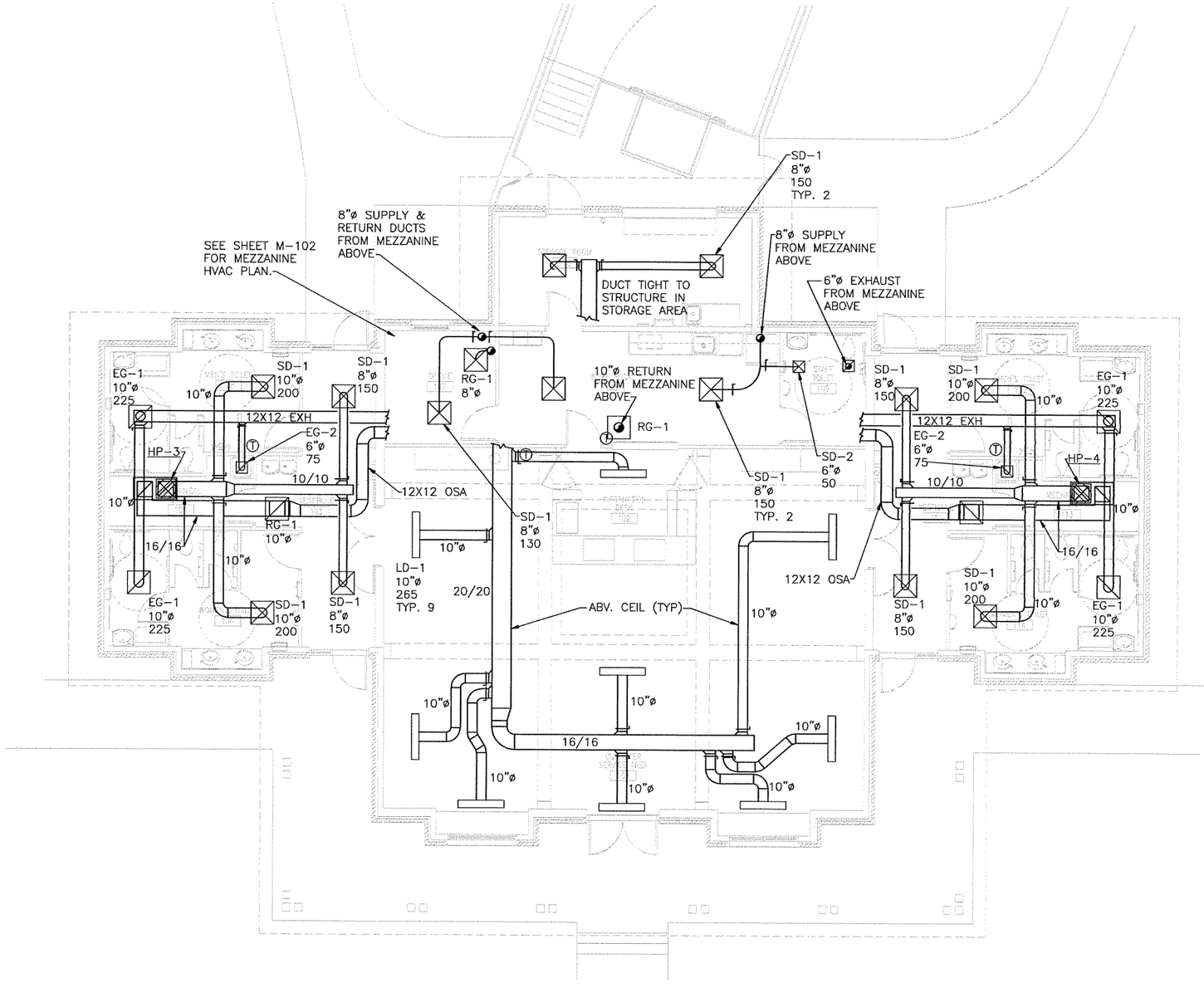

A M-101 FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

6' 3' 0 5' 10'
3/16" = 1'-0"

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MECHANICAL FLOOR PLAN

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SCALE	AS NOTED
PROJECT NUMBER	6351016000
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REV	0

105 OF 120

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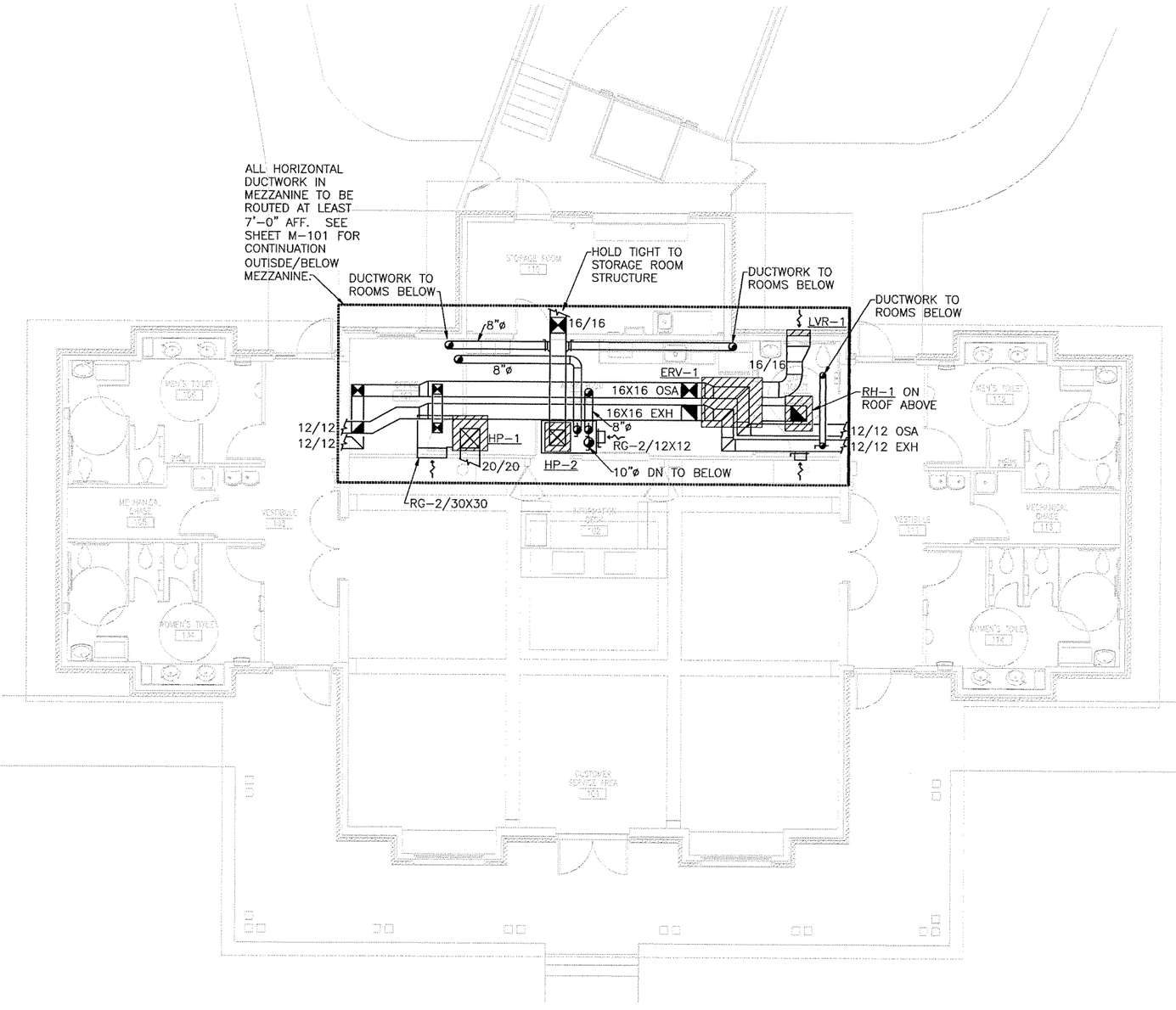

A M-102 FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

6' 3' 0 5' 10'
3/16" = 1'-0"

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MECHANICAL MEZZANINE PLAN

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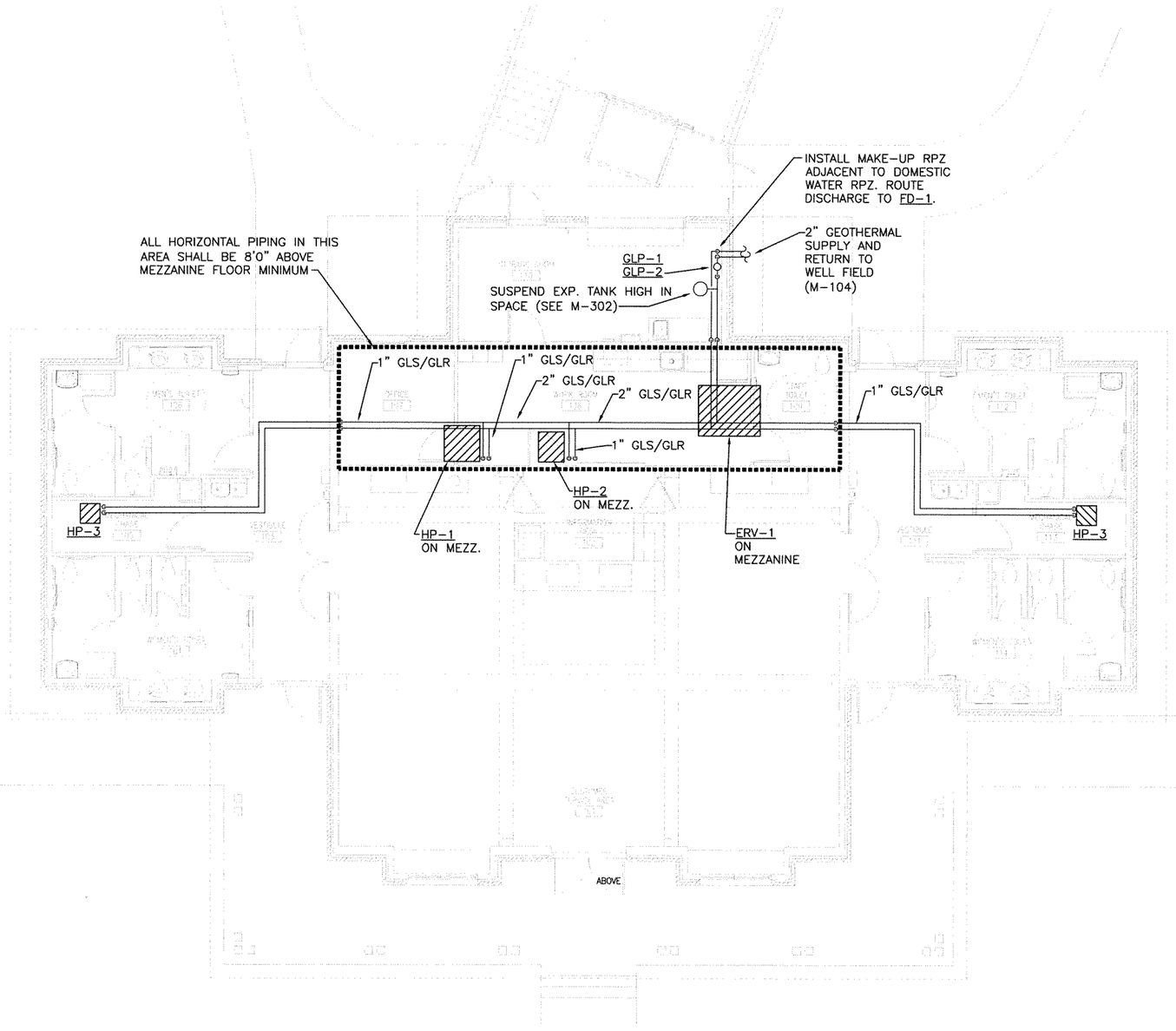

A M-103 FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

6' 3' 0 5' 10'
3/16" = 1'-0"

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MECHANICAL PIPING PLAN

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DATE	08/15/11
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REV	0

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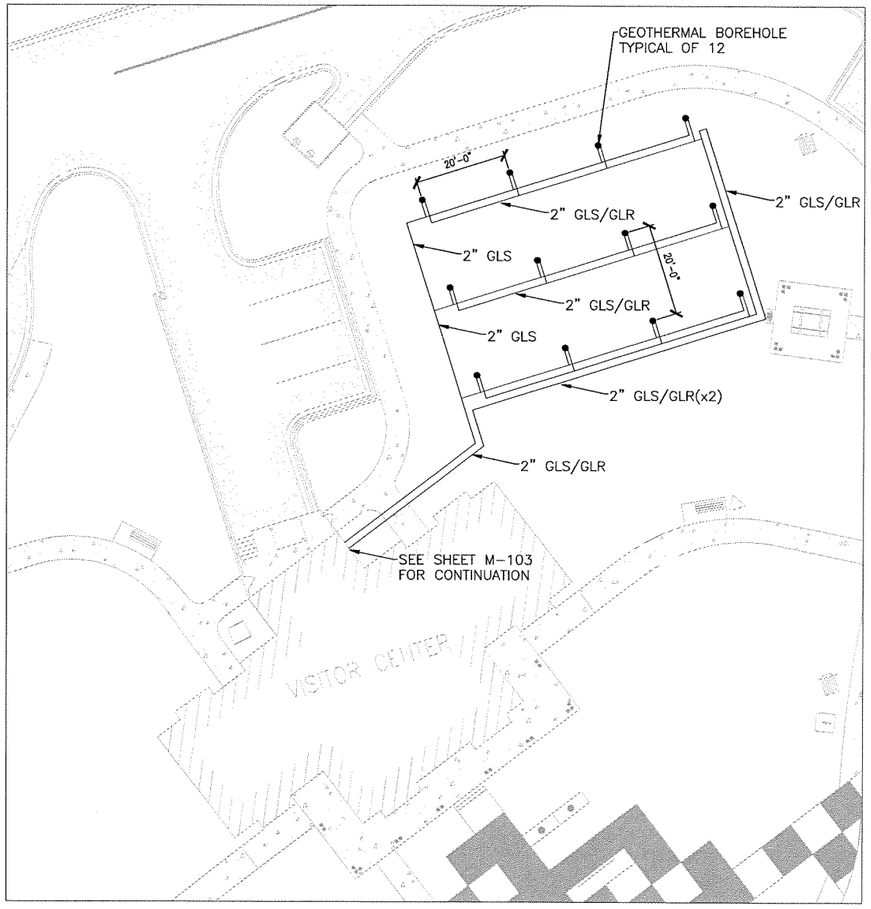
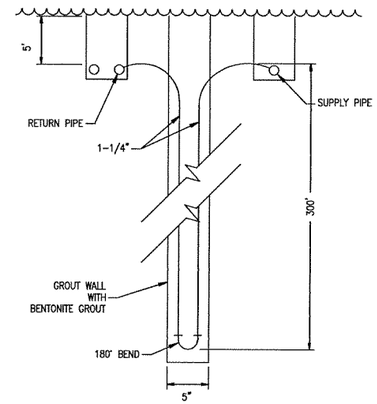


A M-104 MECHANICAL SITE PLAN
SCALE: 1/16"=1'-0"

NORTH

GEOTHERMAL WELL FIELD NOTES:

1. WELL FIELD SHALL BE INSTALLED BY GEOTHERMAL WELL FIELD CONTRACTOR WITH A MINIMUM OF 5 YEARS PRIOR DOCUMENTABLE EXPERIENCE WITH INSTALLATION OF GEOTHERMAL WELL FIELDS.
2. ALL GEOTHERMAL WELL FIELD OUTSIDE OF THE MECHANICAL ROOM SHALL BE SDR 11 HDPE PIPING, DESIGN SPECIFICALLY FOR USE IN GEOTHERMAL DIRECT-BURIAL APPLICATIONS.
3. WELLFIELD DESIGN IS BASED ON PRELIMINARY SITE INFORMATION. OWNER WILL COMPLETE A SOIL CONDUCTIVITY TEST PRIOR TO CONSTRUCTION. WELLFIELD LAYOUT MAY BE MODIFIED BASED ON THE RESULTS OF THIS TESTS. CONTRACTOR SHALL VERIFY FINAL DESIGN WITH A/E PRIOR TO STARTING WELLFIELD CONSTRUCTION.
4. ALL WELL HOLES SHALL BE 5" IN DIAMETER AND DRILLED TO A DEPTH OF 300' ALL HOLES SHALL REMAIN OPEN FOR A MINIMUM OF 7 DAYS BEFORE GROUTING.
5. ALL WELL HOLES SHALL BE GROUTED WITH A BENTONITE MIXTURE PER SPECIFICATIONS.
6. WELL PIPING SHALL BE HDPE PIPING SPECIFICALLY DESIGNED FOR GEOTHERMAL WELL FIELD, WITH PREFABRICATED U-BENDS, AND INSTALLED AS A CONTINUOUS NO JOINT SECTION INTO THE WELL HOLE.
7. ALL HORIZONTAL PIPING SHALL BE BURIED AT A MINIMUM DEPTH OF 60" BELOW FINISHED GRADE.



B M-104 GEOTHERMAL WELL DETAIL
SCALE: N.T.S.

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Energy, Environment & Infrastructure, LLC
No. 510
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 17074
LEE E. SUGGS

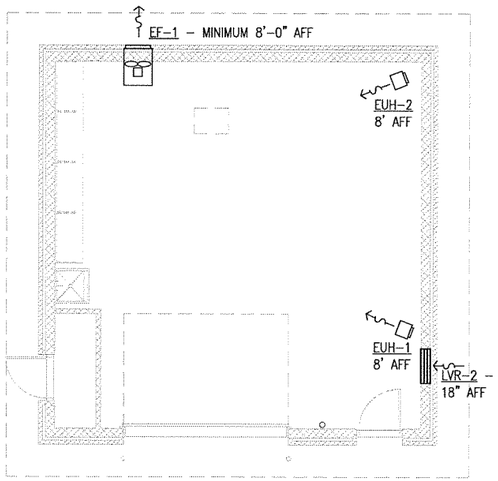
ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MECHANICAL SITE PLAN

DESIGNED BY	TBC
DRAWN BY	AMB
CHECKED BY	TBC
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	M-104
REV	0

108 OF 120



A / M-105 MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

NORTH

6' 3' 0 5' 10'
3/16" = 1'-0"

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11074
LEE E. SUGGS

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

MAINTENANCE BUILDING MECHANICAL PLAN

DESIGNED BY	TBC
DRAWN BY	AMB
CHECKED BY	TBC
APPROVED BY	TBC
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	M-105
REV	0

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GEOTHERMAL LOOP PUMP SCHEDULE

MARK	SERVICE	LOCATION	TYPE	DESIGN GPM	DESIGN HEAD FT.	WATER TEMP.	MOTOR HP	MOTOR RPM	NOM. SIZE SUCT.	NOM. SIZE DISCH.	ISOLATION TYPE	ISOLATION DEFLECTION	RECEIVER SIZE	MANUFACTURER	REMARKS
GLP–1	LOOP PUMP	MECH. ROOM	END SUCTION	30	25	80°	.5	1750	1.5"	1.5"	FLEX	PER SPEC	–	TACO KV1506	1, 2, 3
GLP–2	LOOP PUMP	MECH. ROOM	END SUCTION	30	25	80°	.5	1750	1.5"	1.5"	FLEX	PER SPEC	–	TACO KV1506	1, 2, 3

NOTES:

1. ELECTRICAL – 240V/1ø/60HZ
2. VERTICAL INLINE CLOSE COUPLED PUMP. PROVIDE PUMP SUPPORT PER MANUF. REQUIREMENTS.
3. MOTORS GLP–1 AND GLP–2 SHALL ALTERNATE WEEKLY AS THE PRIMARY LOOP PUMP

HEAT PUMP SCHEDULE

MARK	LOCATION \ SERVES	BASIS OF DESIGN	AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	WATER FLOW (GPM)	MAX.WATER ΔP (FEET)	UNIT CONFIGURATION	COOLING 68°F CAPACITY (MBH)	COOLING 68°F EER	HEATING 55°F CAPACITY (MBH)	HEATING 55°F COP	BACKUP HEAT KW	VOLT/PH	MCA/MOCP	NOTES
HP–1	MEZZANINE MAIN LOBBY	TRANE EXVE070	2400	275	15.4	12.9	SIDE RETURN TOP DISCHARGE	69.4	16.8	72.1	4.2	8	240V/1ø	52.2/70	1,2,3,4,5,6
HP–2	MEZZANINE WORK ROOMS	TRANE EXVE030	950	175	7.0	14.5	SIDE RETURN TOP DISCHARGE	27.5	18.8	31.6	4.8	6	240V/1ø	36.1/40	1,2,3,4,5,6
HP–3	RESTROOM MECHANICAL RESTROOMS	TRANE EXVE018	800	450	4.2	11.3	SIDE RETURN TOP DISCHARGE	18.8	18.0	19.8	4.6	3	240V/1ø	18.8/20	1,2,3,4,5,6
HP–4	RESTROOM MECHANICAL RESTROOMS	TRANE EXVE018	800	450	4.2	11.3	SIDE RETURN TOP DISCHARGE	18.8	18.0	19.8	4.6	3	240V/1ø	18.8/20	1,2,3,4,5,6

NOTES:

1. COOLING CAPACITIES BASED UPON 80°F DB, 67°F WB ENTERING AIR TEMPERATURE. HEATING CAPACITIES BASED UPON 68°F DB, 59°F WB ENTERING AIR TEMPERATURE.
2. PROVIDE 1" ACOUSTICALLY LINED PLENUM SIZED TO MATCH UNIT RETURN INTAKE FOR CONNECTION OF OUTSIDE AIR AND RETURN AIR BALANCING DAMPERS. BALANCE TO AIRFLOWS INDICATED.
3. PROVIDE FILTER FRAME ON HEAT PUMP INLET UNLESS OTHERWISE NOTED. PROVIDE MINIMUM 1" FILTER OF MERV 8 CAPACITY, 2 EXTRA SETS OF FILTERS PER UNIT.
4. ALL UNITS RATED AT 0.50" EXTERNAL STATIC PRESSURE FOR AIR FLOW.
5. PROVIDE ALL UNITS WITH TWO VALVE KITS WITH WATER SHUT–OFF CONTROLS. WATER FLOW TO UNIT SHALL BE SHUT–OFF WHEN UNIT IS INACTIVE.
6. PROVIDE UNIT WITH BACK–UP HEAT STRIP SIZED AS INDICATED. HEAT STRIP SHALL ONLY ACTIVATE AS EMERGENCY HEAT IN THE EVENT OF HEAT PUMP COMPRESSOR OR GEOTHERMAL LOOP FAILURE. PROVIDE UNIT WITH 7 PROGRAMMABLE THERMOSTAT WITH AUTO–CHANGEOVER. LOCATE THERMOSTAT IN MECHANICAL AREA ADJACENT TO UNIT. LOCATE REMOTE TEMPERATURE SENSOR AS INDICATED ON PLANS.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	LOCATION	BASIS OF DESIGN	OUTSIDE AIR FLOW (CFM)	EXHAUST AIR FLOW (CFM)	OSA DB/WB	SUPP. DB/WB	UNIT CONFIGURATION	FANS SUPPLY ESP/HP	FANS EXHAUST ESP/HP	FILTERS	VOLT/PH	MCA/MOCP	NOTES
ERV–1	MECHANICAL MEZZANINE	GREENHECK ERV–361S	1350	1200	98/76	81/67	HORIZONTAL FLOOR MOUNT	0.5" WC/0.75	0.5" WC/0.5	MERV 8	240V/1ø	14.6 / 20	1,2,3,4,5

NOTES:

1. UNIT SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES.
2. UNIT TO HAVE LIGHT–WEIGHT POLYMER WHEEL WITH PERMANENTLY BONDED SILICA GEL COATING.
3. PROVIDE 2" FILTERS, MERV 13 MINIMUM. PROVIDE 2 EXTRA SETS OF FILTERS TO OWNER.
4. PROVIDE REMOTE CONTROL PANEL WITH 7 DAY PROGRAMMABLE OCCUPIED/UNOCCUPIED SCHEDULE AND STATUS/ALARM NOTIFICATION PER SPECIFICATIONS.

INTAKE & EXHAUST LOUVER/PENTHOUSE SCHEDULE

MARK	TYPE	SERVES	CFM	SP IN. WC	DAMPER	WIDTH X HEIGHT (INCHES)	FREE AREA (SQ. FT.)	VELOCITY (FT./MIN.)	BIRD SCREEN	MANUFACTURER/ MODEL NO.
LVR–1	INTAKE	ERV–1	1,350	0.05	NONE	24X30	2.50	540	YES	RUSKIN ELF6375DX
LVR–2	INTAKE	MAINT.	1,500	0.05	GRAVITY	30X24	2.50	600	YES	RUSKIN ELF6375DX
RH–1	EXHAUST	ERV–1	1,200	0.05	NONE	20X20 NECK	2.78	430	YES	GREENHECK FGR

NOTE: FINAL FINISH COLOR TO BE SELECTED BY ARCHITECT. PROVIDE CURB TO MATCH ROOF CONSTRUCTION AS APP.

GRILLE AND REGISTER SCHEDULE

SYMBOL	DESCRIPTION	BASIS OF DESIGN	FRAME TYPE	DAMPER	NOTES
SD–1	CEILING DIFFUSER	TITUS TDC	SURFACE 24"x24" FACE	–	1, 2, 5
SD–1	CEILING DIFFUSER	TITUS TDC	SURFACE 12"X12" FACE	–	1, 2, 5
LD–1	SLOT DIFFUSER	TITUS TBD–30	SURFACE 48" LENGTH	–	5, 6
RG–1	RETURN GRILLE	TITUS 50F	SURFACE 24"x24" FACE	–	1, 5
RG–2	RETURN GRILLE	TITUS 300–FL	SURFACE MOUNT SIZE PER PLAN	–	1, 3, 5
EG–1	EXHAUST GRILLE	TITUS 50F	SURFACE 24"x24" FACE	–	1, 5
EG–2	EXHAUST GRILLE	TITUS 50F	SURFACE 12"X12" FACE	–	1, 5

NOTES:

1. FURNISH WITH MANUFACTURER'S STANDARD OFF–WHITE FINISH.
2. DUCT RUNOUT SIZE SHALL MATCH DIFFUSER NECK SIZE.
3. FINAL FINISH COLOR TO BE SELECTED BY ARCHITECT TO MATCH SURROUNDINGS.
4. DOUBLE DEFLECTION.
5. MAXIMUM NC LEVEL OF 30 AND MAXIMUM VELOCITY PRESSURE OF 25Pa [0.05wg].
6. 1" SLOT WIDTH, 3 PARALLEL SLOTS, WITH PLENUM.

ELECTRIC UNIT HEATER SCHEDULE

MARK	EUH–1	EUH–2
MANUFACTURER	MARKEL	MARKEL
MODEL	82UH5	82UH5
LOCATION	MAINTENANCE AREA	MAINTENANCE AREA
HEAT OUTPUT (KW)	5	5
POWER (V/PH/HZ)	230/1/60	230/1/60
TOTAL AMP LOAD	21	21
AIRFLOW (CFM)	400	400
MOUNTING HEIGHT (FT. AFF)	8'–0"	8'–0"
NOTES	1	1

1. UNIT MOUNTED DISCONNECT AND THERMOSTAT WITH WALL MOUNTING BRACKET.

EXHAUST FAN SCHEDULE

MARK	EF–1
MANUFACTURER	COOK
MODEL	20XMP
TYPE	WALL PROPELLER
LOCATION	MAINTENANCE SHED
AIRFLOW (CFM)	1500
ESP (IN.)	0.25
FAN RPM	920
HORSEPOWER (HP)	1/4
ELECTRICAL (V/PH/HZ)	120/1/60
NOTES	3

1. PROVIDE WALL MOUNTED SWITCH, GRAVITY DAMPER, AND OSHA GUARD

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West Helena, Arkansas
AHTD Job No. 110536
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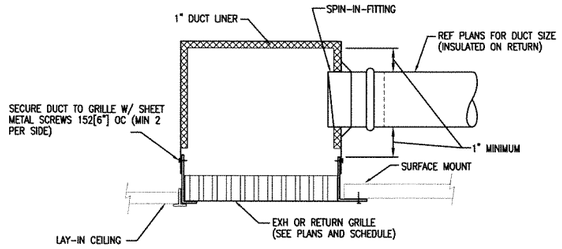
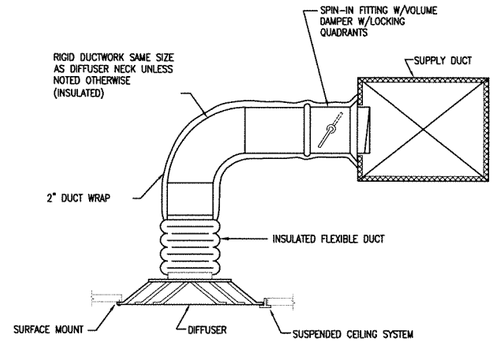
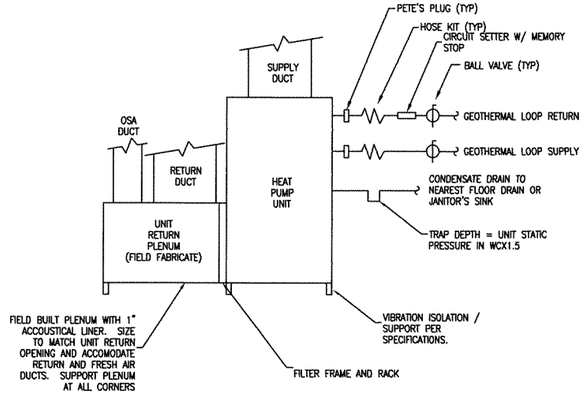
REV	0
	110 OF 120



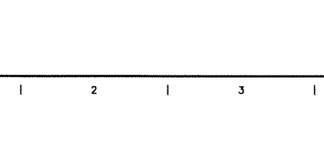
A M-301 TYPICAL RETURN OR EXHAUST GRILLE DETAIL
SCALE: NONE



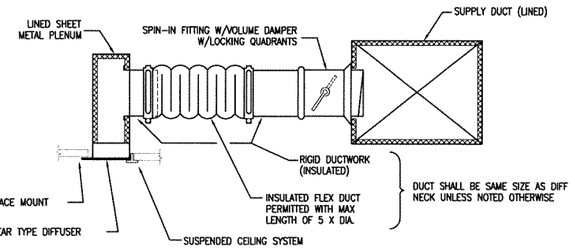
D M-301 TYPICAL SUPPLY DIFFUSER DETAIL
SCALE: NONE



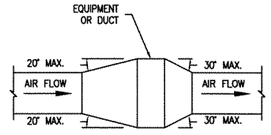
G M-301 HEAT PUMP DETAIL
NO SCALE



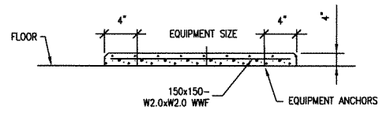
B M-301 SUPPLY BRANCH CONNECTION DETAIL
SCALE: NONE



E M-301 TYPICAL LINEAR SUPPLY DETAIL
SCALE: NONE



C M-301 TYPICAL DUCT TRANSFORMATION
SCALE: NONE



F M-301 TYPICAL HOUSEKEEPING PAD DETAIL
SCALE: NONE

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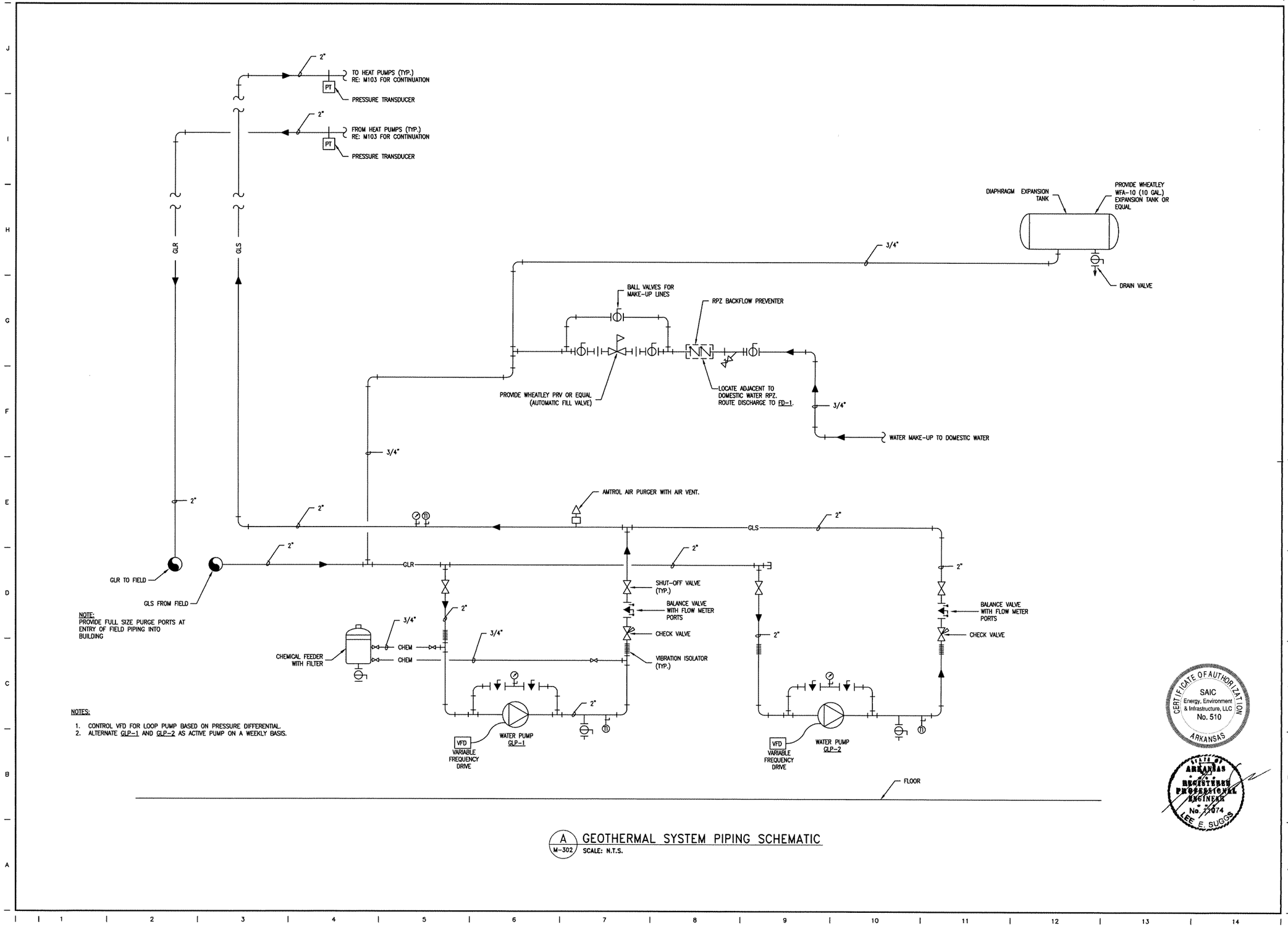

A M-302 GEOTHERMAL SYSTEM PIPING SCHEMATIC
SCALE: N.T.S.

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GEOTHERMAL PIPING SYSTEM DETAILS

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REV	0

ELECTRICAL SYMBOLS LEGEND

CEILING / WALL

- A / A — FLUORESCENT FIXTURE, A = FIXTURE TYPE, SEE FIXTURE SCHEDULE E-601
- A — FLUORESCENT FIXTURE, E/F = FIXTURE TYPE, SEE FIXTURE SCHEDULE E-601
- A / A — HID, COMPACT FLUORESCENT LIGHT FIXTURE
- X — EXIT SIGN, DARKENED SECTION(S) DENOTE FACE(S). USE DIRECTIONAL ARROWS WHERE INDICATED. EQUAL TO NAVILITE NXD (WHITE)
- E — EMERGENCY FIXTURE
- A — PEDESTRIAN WALKWAY LIGHT
- A — PARKING LOT LIGHTING STANDARD

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION

- CONDUIT CONCEALED
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT BELOW GRADE
- LOW VOLTAGE CONTROL WIRING
- JUNCTION BOX
- JUNCTION BOX WALL MOUNTED
- HOMERUN TO PANEL BOARD OR DEVICE. TICK MARKS DENOTE NUMBERS OF CIRCUITS. HOMERUN WITH NO TICK MARKS SHALL BE A SINGLE CIRCUIT.
- SPLIT-WIRED CCT.
- T — TRANSFORMER
- HH — HANDHOLE
- GROUND
- M — METER
- SWITCHBOARD, DISTRIBUTION PANEL
- PANEL BOARD
- HEAVY DUTY SAFETY SWITCH. MOUNT WITH ℄ OF HANDLE AT 60" A.F.F. REFER TO EQUIPMENT SCHEDULE FOR AMPACITY, NEMA CONFIGURATION, FUSING, ECT.
- SINGLE RECEPTACLE OUTLET, MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE.
- C — DUPLEX GFCI RECEPTACLE OUTLET, MOUNTED COUNTER HEIGHT, UNLESS NOTED OTHERWISE
- WP — DUPLEX GFI RECEPTACLE W/ WEATHERPROOF "IN-USE" TYPE COVER MOUNTED @ 18" A.F.F.
- GFI — HOSPITAL GRADE GFI RECEPTACLE MOUNTED AT 18" A.F.F.
- FLOOR MOUNTED RECEPTACLE
- CEILING MOUNTED RECEPTACLE
- QUADPLEX RECEPTACLE OUTLET, MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE.
- SPECIAL RECEPTACLE
- $ — SINGLE POLE SWITCH, MOUNTED AT 48" A.F.F.
- $3 — 3-WAY SWITCH, MOUNTED AT 48" A.F.F.
- $4 — 4-WAY SWITCH, MOUNTED AT 48" A.F.F.
- $M — MOTOR RATED SWITCH MOUNTED AT MOTOR, UNLESS NOTED OTHERWISE.
- MOTOR LOAD

- $OS — COMBINATION OCCUPANCY/SENSOR/SWITCH, MOUNTED AT 48" A.F.F
- D$ — DIMMER SWITCH, MOUNTED AT 48" A.F.F.
- TC — TIME CLOCK
- SMOKE DETECTOR
- AUTOMATIC FLUSH/FAUCET VALVE
- AUTOMATIC FLUSH/FAUCET VALVE LOW VOLTAGE TRANSFORMER

GENERAL NOTES

1. FOR ALL ELECTRICAL WORK, REFER TO DIVISION 26 SPECIFICATION SECTION.
2. HEIGHTS INDICATED ARE TO THE CENTERLINE OF BOX, UNLESS INDICATED OTHERWISE.
3. ALL SYMBOLS MAY NOT BE USED.
4. FOR ALL ELECTRICAL EQUIPMENT INDICATED TO BE SUSPENDED FROM BUILDING FRAMING (TRANSFORMERS, LIGHTING, ETC.), THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUPPLEMENTAL FRAMING, HANGERS, ETC. NECESSARY TO SUPPORT ELECTRICAL ITEMS IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S RECOMMENDATIONS. REFER TO STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF HANGERS FOR ELECTRICAL ITEMS WITH ROOF INSTALLATION SEQUENCE.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, COORDINATE AND CONFIRM WITH THE MECHANICAL AND PLUMBING CONTRACTOR ALL OF THE FOLLOWING:
   A. VERIFY EXACT FEED LOCATIONS AND NUMBER OF CONNECTIONS TO ALL A/C UNITS, FAN COILS, CHILLERS, COOLING TOWERS, SYSTEM PUMPS, EVAP. COOLERS, MAKE-UP AIR UNITS, DAMPER MOTORS, ETC.
   B. ELECTRICAL CHARACTERISTICS (E.G., KW, HP, AMPS, VOLTAGE, PHASE, ETC.): CONFIRM WITH APPROVED MECHANICAL/PLUMBING EQUIPMENT SHOP DRAWINGS.
   C. EXACT LOCATION OF ALL CONTROL PANELS, CONTROL DEVICES, THERMOSTATS, DAMPER MOTORS, ETC.
6. COORDINATE EXHAUST FAN CONTROLS WITH MECHANICAL DRAWINGS. PROVIDE POWER TO MOTORIZED DAMPERS FROM EXHAUST FAN CIRCUIT UNLESS INDICATED OTHERWISE.

ABBREVIATIONS

A	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMP INTURUPTING CAPACITY
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
B	
BKR	CIRCUIT BREAKER
BLDG	BUILDING
C	
CKT	CIRCUIT
℄	CENTERLINE
CLG	CEILING
COL	COLUMN
CU	COPPER
°C	DEGREES CELSIUS
D	
DEG	DEGREES
DIA, ø	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DW	DISH WASHER
DWG	DRAWING
E	
EA.	EXHAUST AIR, EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRICAL WATER COOLER
EX	EXISTING
F	
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE (CONDUIT)
FLR	FLOOR
FT	FOOT, FEET
°F	DEGREES FAHRENHEIT
G	
GA	GAUGE
GD	GARBAGE DISPOSAL
GALV	GALVANIZED
GFI, GFCI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL (CONDUIT)
H	
HID	HIGH INTENSITY DISCHARGE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & A/C
HZ	HERTZ
I	
ID	INSIDE DIAMETER, IDENTIFICATION
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH, INCHES
J	
J-BOX	JUNCTION BOX
K	
KCMIL	THOUSAND CIRCULAR MILS (AREA)
KVA	KILOVOLT-AMPS
KW	KILOWATTS
KWH	KILOWATT-HOUR
L	
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
M	
MAX	MAXIMUM
MC	MULTI CONDUCTOR (CABLE)
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MOCP, MOP	MAXIMUM OVER CURRENT PROTECTION
MH	MANHOLE, METAL HALIDE
MIL, MILS	1/1000 INCH
MIN	MINIMUM

N	
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OEP	OVERHEAD ELECTRICAL PRIMARY
OES	OVERHEAD ELECTRICAL SECONDARY
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
P	
PE	PHOTO ELECTRIC, PROFESSIONAL ENGINEER
PF	POWER FACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE
PWR	POWER
Q	
QTY	QUANTITY
R	
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
REF:	REFERENCE, REFER TO
REFRIG.	REFRIGERATOR
REQD	REQUIRED
REV	REVISION, REVISE
RLA	RUNNING LOAD AMPS
RM	ROOM
RMS	ROOT MEAN SQUARE
RPM	REVOLUTION PER MINUTE
S	
SCH	SCHEDULE, SCHEDULED
SF	SQUARE FEET, SQUARE FOOT
SPEC	SPECIFICATION, SPECIFY
SS	STAINLESS STEEL, STATIONARY SEWER
STD	STANDARD
SUSP	SUSPEND, SUSPENDED
T	
TELECOM	TELECOMMUNICATIONS
THRU	THROUGH
TSTAT	THERMOSTAT
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
U	
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UEP	UNDERGROUND ELECTRICAL PRIMARY
UES	UNDERGROUND ELECTRICAL SECONDARY
UL	UNDERWRITER'S LABORATORIES, INC.
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	
V	VOLT, VENT, VERTICAL
VA	VOLT-AMPERE
VERT	VERTICAL
W	
W	WATT, WIDTH, WIRE
W/	WITH
W/O	WITHOUT
X	
XFMR	TRANSFORMER

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13428 — JOSEPH W. JOYCE

SAIC — From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	08/15/11	ISSUE FOR CONSTRUCTION	JJ	JJ

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
ELECTRICAL LEGEND ABBR. GENERAL NOTES

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	NONE
PROJECT NUMBER	6351016000
SHEET	E-001
REV	0
	113 OF 120

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SECURITY CAMERA SYSTEM

A. SYSTEM SHALL HAVE MINIMUM ONE WEEK RECORDING CAPABILITY.

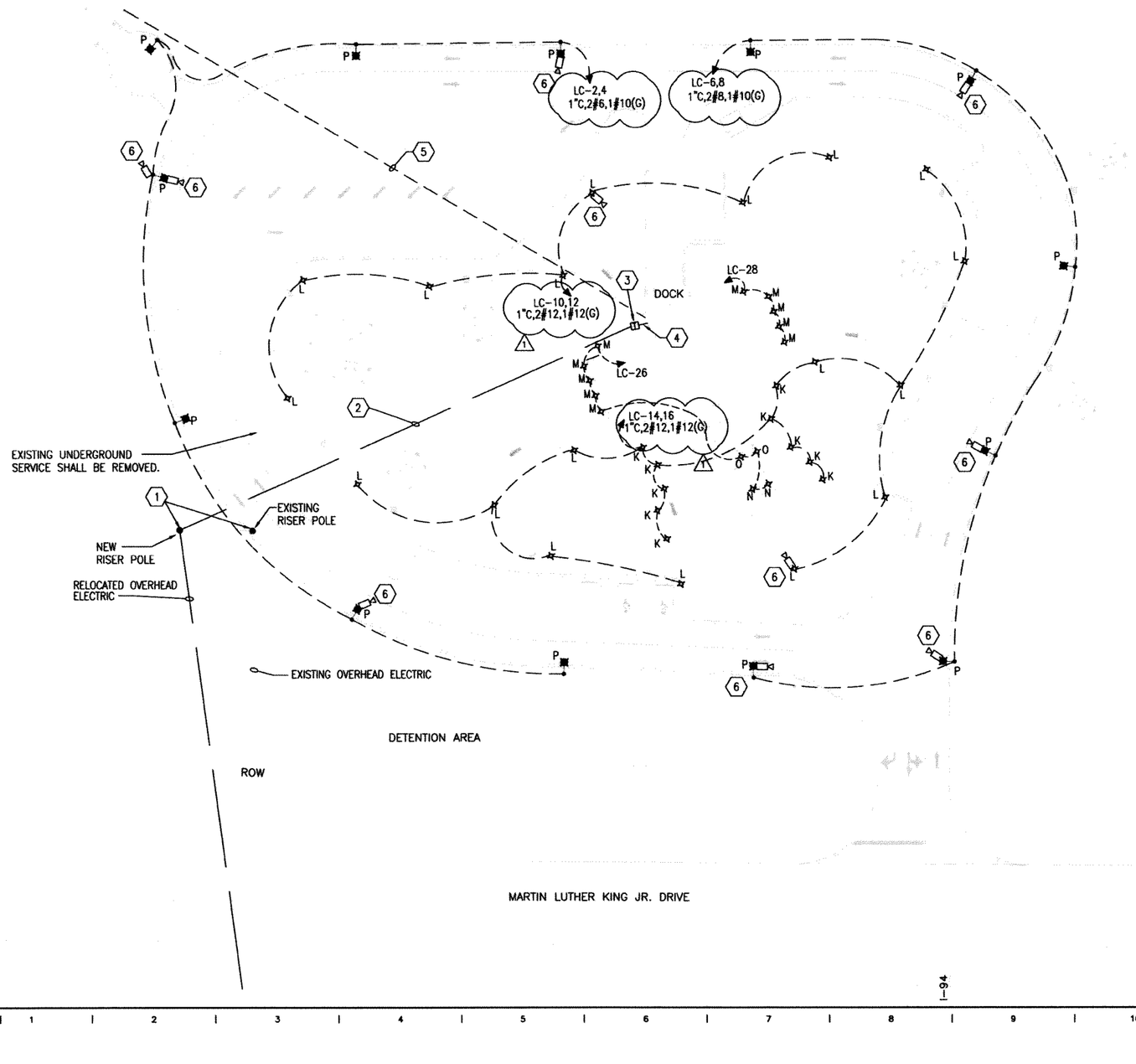
B. SYSTEM SHALL HAVE CAPABILITY OF BEING MONITORED REMOTELY OVER THE INTERNET.

C. REFER TO SPECIFICATIONS FOR ALLOWANCE FOR SECURITY CAMERA SYSTEM, EQUIPMENT AND INSTALLATION.

PLAN NORTH

30 0 15 30

SCALE: 1"=30'



GENERAL NOTES

A. REFER TO CIVIL SHEET C-503 FOR CONCRETE LIGHT POLE BASE INSTALLATION DETAILS.

B. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH EXTENDING NEW UNDERGROUND ELECTRICAL SERVICE TO THE WELCOME CENTER. ALL ITEMS INDICATED TO BE 'BY UTILITY' SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BASE BID PRICE.

C. PROVIDE A 12"X12" CONCRETE MOUNTING PAD FOR EACH GROUND MOUNTED TYPE 'M' AND 'O' FIXTURES.

D. HANDHOLES ARE NOT SHOWN ON THIS SHEET. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HANDHOLES AS REQUIRED FOR PULLING CONDUCTORS. APPROXIMATELY 1 EACH 100' TO 150'.

E. REFER TO SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.

F. ALL UNDERGROUND SITE LIGHTING CONDUITS SHALL BE SCH. 80 PVC BURIED A MINIMUM 24" BELOW FINISHED GRADE WITH DETECTABLE WARNING TAPE PER SPECIFICATIONS.

KEYED NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRIC UTILITY (ENTERGY) TO REMOVE THE EXISTING RISER POLE AND INSTALL A NEW RISER POLE AS INDICATED. NEW UNDERGROUND SERVICE SHALL EXTEND TO THE BUILDING FROM THIS NEW RISER POLE.

2. 2-EA. 3" SCH. 80 PVC CONDUIT WITH PULL STRING BY CONTRACTOR. PRIMARY CONDUCTORS BY ENTERGY. CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE LOCAL UTILITY COMPANY REGARDING REQUIRED BURIAL DEPTH AND TRENCHING REQUIREMENTS. CONDUITS SHALL BE CONCRETE ENCASED AT ROAD CROSSING. THIS NEW UNDERGROUND PRIMARY RUN FOLLOWS A SIMILAR PATH AS THE UNDERGROUND SEWER LINE. CONTRACTOR SHALL MAINTAIN A MINIMUM 10' SEPARATION BETWEEN SEWER LINE AND UNDERGROUND PRIMARY.

3. NEW UTILITY TRANSFORMER SHALL BE SIZED AND PROVIDED BY ENTERGY AT THE CONTRACTORS EXPENSE. COORDINATE EXACT LOCATION WITH LOCAL UTILITY COMPANY. CONTRACTOR SHALL PROVIDE METER BASE, CT CABINET AND UNISTRUT MOUNTING STRUCTURE PER UTILITY REQUIREMENTS. ENTERGY WILL PROVIDE THE TRANSFORMER, PAD, AND TRANSFORMER GROUNDING ROD.

4. ALL SECONDARY CONDUIT AND CONDUCTORS BY THE CONTRACTOR. REFER TO POWER RISER DIAGRAM ON SHEET E-602.

5. REFER TO THE POWER RISER DIAGRAM FOR FEEDER TO MAINTENANCE BUILDING INFORMATION.

6. MOUNT SECURITY CAMERAS ON POLES INDICATED AT 30' ABOVE GRADE MAXIMUM. AT PEDESTRIAN POLES, MOUNT AS HIGH AS POSSIBLE. PROVIDE 1" CONDUIT WITH PULL WIRE TO EACH CAMERA NOTED. TERMINATE CONDUITS IN OFFICE WHERE SECURITY SYSTEM MONITOR AND HARDWARE ARE LOCATED. REFER TO E-101.

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13428 JOSHUA W. JOYCE

SAIC From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
1	02/02/12	ADDENDUM NO. 1	JJ	JJ
0	08/15/11	ISSUE FOR CONSTRUCTION	JJ	JJ

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ELECTRICAL SITE PLAN

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	E-100
REV	1

114 OF 120

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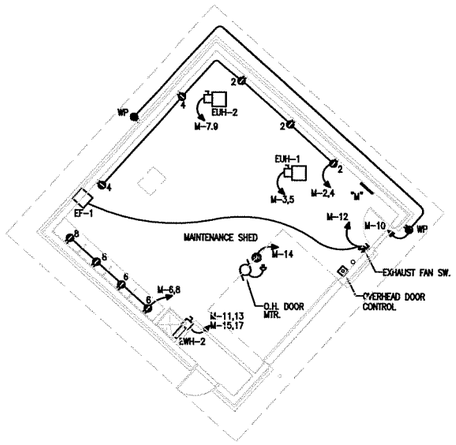
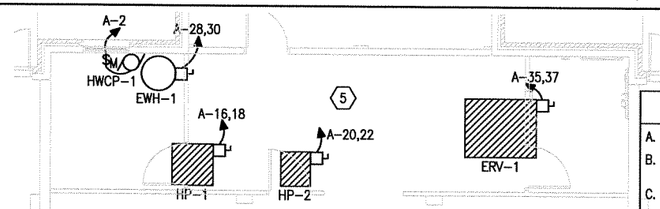


B E-101 **MAINTENANCE SHED POWER PLAN** SCALE: 1/8" = 1'-0" NORTH



B E-101 **MEZZ. POWER PLAN** SCALE: 3/16"= 1'-0" NORTH

SECURITY CAMERA SYSTEM

A. SYSTEM SHALL HAVE MINIMUM ONE WEEK RECORDING CAPABILITY.

B. SYSTEM SHALL HAVE CAPABILITY OF BEING MONITORED REMOTELY OVER THE INTERNET.

C. REFER TO SPECIFICATIONS FOR ALLOWANCE FOR SECURITY CAMERA SYSTEM, EQUIPMENT AND INSTALLATION.

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES APPLICABLE TO ALL DRAWINGS.

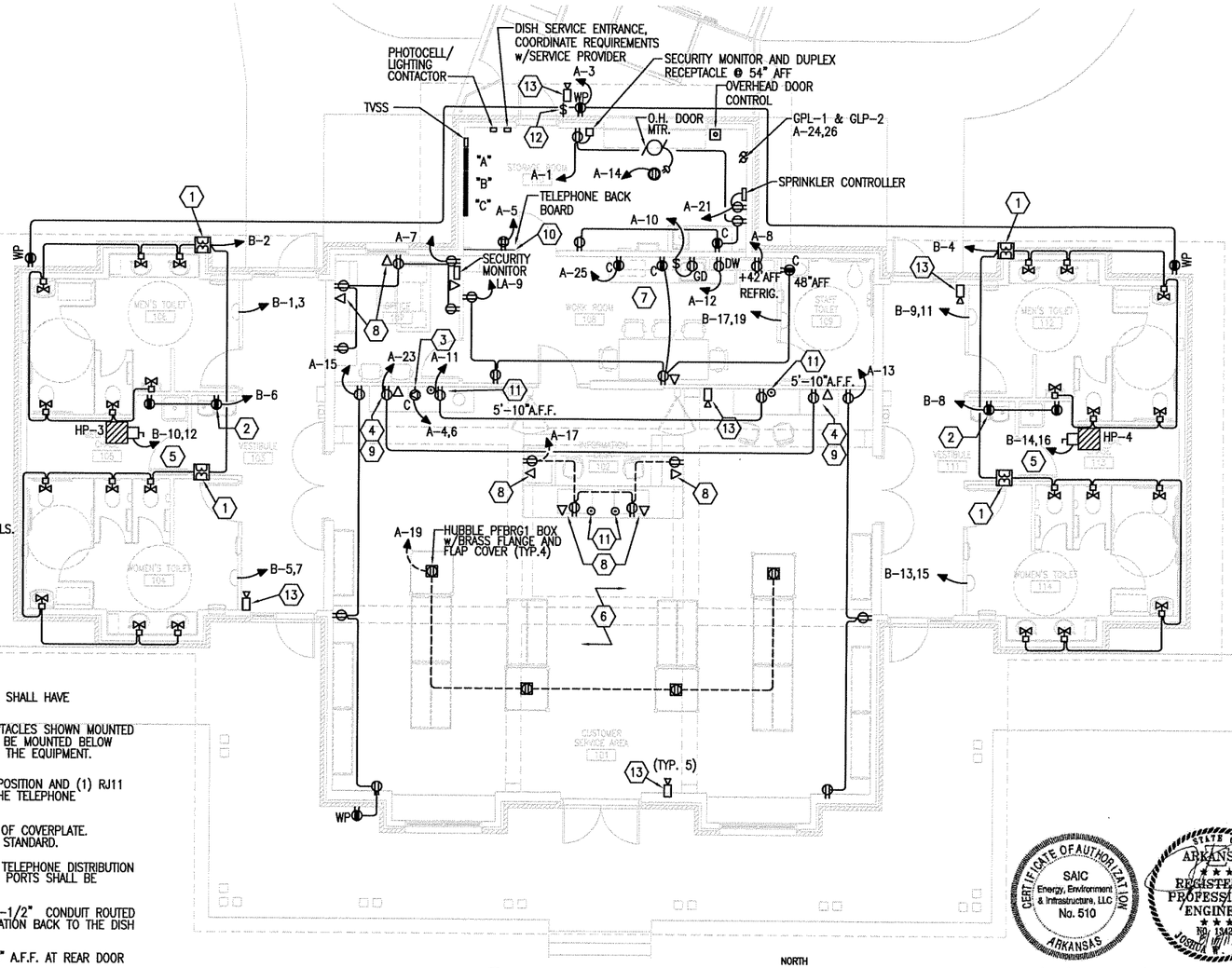
B. ALL CONDUCTORS SHALL BE IN CONDUIT AS SPECIFIED.

C. UNLESS NOTED OR SCHEDULED OTHEWISE, ALL CONDUITS SHALL BE A MINIMUM 3/4" SIZE AND ALL CONDUCTORS SHALL BE #12AWG.

D. CONTRACTOR SHALL PROVIDE PULL BOXES WHERE NEEDED FOR PULLING CONDUCTORS.

KEYED NOTES

1. AT EACH GROUP OF AUTOMATIC FAUCETS/FLUSH VALVES, PROVIDE MANUFACTURER'S BOX MOUNTED LOW VOLTAGE TRANSFORMER AND PREFORM LOW VOLTAGE WIRING TO EACH VALVE AS INDICATED. ALL WIRING, CONNECTIONS AND TRANSFORMERS SHALL BE CONCEALED BEHIND LAVATORY ACCESS PANEL OR WALL PANELS. LOW VOLTAGE WIRING SHALL BE PER MANUFACTURER'S REQUIREMENTS.
2. COORDINATE EXACT MOUNTING LOCATION WITH WATER COOLER.
3. COORDINATE COFFEE MAKER ELECTRICAL OUTLET WITH EQUIPMENT PROVIDED.
4. COMPUTER RECEPTACLES ABOVE TABLE TOP. MOUNT BOTTOM OF RECEPTACLE AT 3'-2" A.F.F. DATA OUTLETS SHALL BE MOUNTED AT THE SAME ELEVATION, ONE ALONGSIDE EACH RECEPTACLE., SEE KEYED NOTE #9 BELOW.
5. EXPOSED CONDUIT PERMITTED IN THIS SPACE.
6. OUTLETS LOCATED THROUGHOUT THE CUSTOMER SERVICE AREA, INCLUDING THOSE MOUNTED IN THE FLOOR, SHALL HAVE COVERPLATES WITH BRUSHED BRASS FINISH.
7. REFER TO ARCHITECTURAL DRAWING A-403 FOR KITCHEN ELEVATION AND EQUIPMENT IDENTIFICATION. RECEPTACLES SHOWN MOUNTED ABOVE COUNTER SHALL BE INSTALLED IN APPROXIMATE AREAS SHOWN. RECEPTACLE FOR DISPOSAL SHALL BE MOUNTED BELOW SINK AND SWITCHED AS SHOWN. RECEPTACLE FOR THE MICROWAVE SHALL BE INSTALLED AT THE BASE OF THE EQUIPMENT. COORDINATE THE RECEPTACLE TYPE WITH THE EQUIPMENT PROVIDED.
8. IN LOCATIONS SHOWN (TYPICAL OF 6), PROVIDE DEVICES SPECIFIED WITH (1) RJ45 (DATA) IN THE UPPER POSITION AND (1) RJ11 (PHONE) IN THE LOWER POSITION OF COVERPLATE. PROVIDE CAT5E CABLES FROM EACH JACK BACK TO THE TELEPHONE DISTRIBUTION BOARD. 568-B WIRING STANDARD.
9. IN LOCATIONS SHOWN (TYPICAL OF 2), PROVIDE DEVICES SPECIFIED WITH (1) RJ45 (DATA) IN THE CENTER OF COVERPLATE. PROVIDE CAT5E CABLES FROM EACH JACK BACK TO THE TELEPHONE DISTRIBUTION BOARD. 568-B WIRING STANDARD.
10. PROVIDE AN 18"X48" SHELF FOR MOUNTING OF TELECOM EQUIPMENT (BY OTHERS). MOUNT SHELF ABOVE TELEPHONE DISTRIBUTION BOARD. AT TELECOM SHELF, PROVIDE A MINIMUM 16-PORT PATCH PANEL FOR CABLE CONNECTIONS. TEN PORTS SHALL BE LABELED FOR 'STATE' AND SIX SHALL BE 'PUBLIC'. SPARES SHALL BE LEFT UNMARKED.
11. PROVIDE COAX CONNECTIONS FOR TV INSTALLATIONS ALONGSIDE RECEPTACLES IN AREA NOTED. PROVIDE 1-1/2" CONDUIT ROUTED TO COUNTER WHERE DISH RECEIVERS ARE MOUNTED. PROVIDE 1-1/2" CONDUIT FROM THE RECEIVER LOCATION BACK TO THE DISH SERVICE ENTRANCE POINT. PROVIDE COAX CABLE COMPATIBLE WITH SERVICE PROVIDERS EQUIPMENT.
12. PROVIDE BROAN (OR EQUAL) RC533 PILOT LONG RANGE WIRELESS DOORBELL. MOUNT PUSHBUTTON AT 48" A.F.F. AT REAR DOOR AND DOORBELL AT 78" A.F.F. AT DOOR ACROSS FROM KITCHEN EQUIPMENT.
13. SECURITY CAMERA LOCATION. EXTEND 1" CONCEALED CONDUIT WITH PULL STRING FROM THIS LOCATION BACK TO SECURITY MONITOR IN OFFICE 107.



A E-101 **ELECTRICAL POWER PLAN** SCALE: 3/16"= 1'-0" NORTH

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13428 — JOSHUA J. JOYCE

4' 2' 0 4' 8' 12'

SCALE IN FEET (3/16"=1'-0")

SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

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0	08/15/11	ISSUE FOR CONSTRUCTION	JJ	JJ

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ELECTRICAL POWER PLAN

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	3/16"=1'-0"
PROJECT NUMBER	6351016000
SHEET	E-101
REV	0
	115 OF 120

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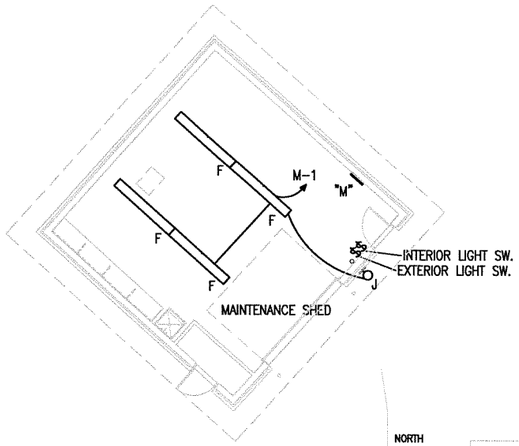
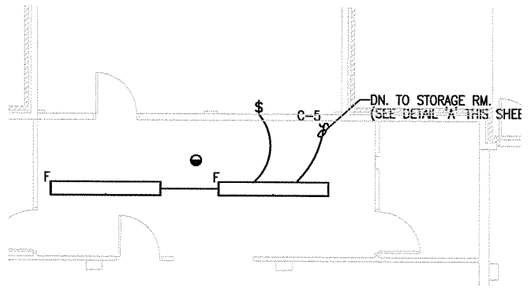
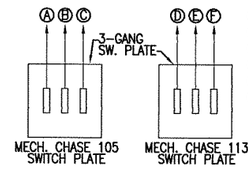


B E-102 MAINTENANCE SHED LIGHTING PLAN
SCALE: 1/8" = 1'-0"



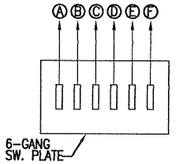
C E-102 MECH. LOFT LIGHTING PLAN
SCALE: 3/16"= 1'-0"



A TOILET 104
B TOILET 106
C MECH. CHASE 105
D TOILET 112
E TOILET 114
F MECH. CHASE 113

PROVIDE ENGRAVED LABELS TO IDENTIFY EACH SWITCH

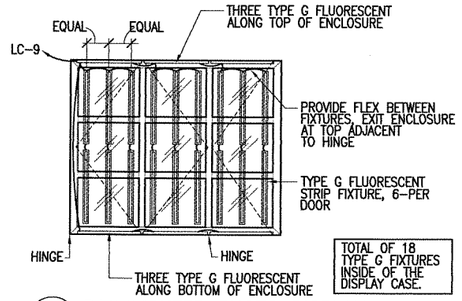
D E-102 SWITCHING DETAIL
SCALE: N.T.S.



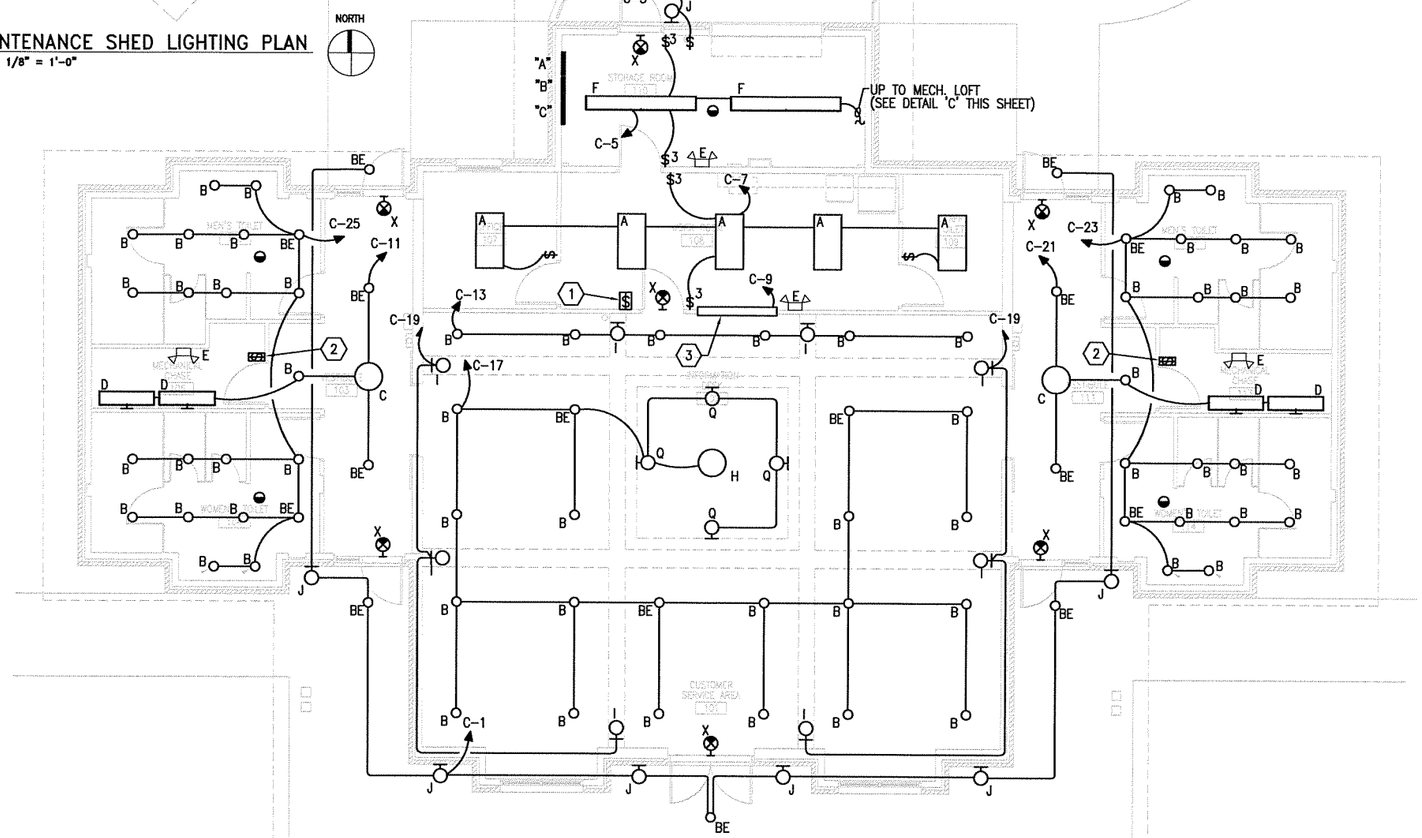
A LIGHT BOX
B RM 101 NORTH WALL
C RM 101 WALL SCONCE
D RM 101 CEILING
E VESTIBULE 111
F VESTIBULE 103

PROVIDE ENGRAVED LABELS TO IDENTIFY EACH SWITCH

E E-102 SWITCHING DETAIL
SCALE: N.T.S.



F E-102 BACKLIGHTED PHOTO DISPLAY CASE
SCALE: N.T.S.



A E-102 ELECTRICAL LIGHTING PLAN
SCALE: 3/16"= 1'-0"

SCALE IN FEET (3/16"=1'-0")

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES APPLICABLE TO ALL DRAWINGS.
B. ALL EXIT FIXTURES AND EMERGENCY WALL PACK FIXTURES SHALL BE POWERED FROM AN UNSWITCHED LIGHTING CIRCUIT SHARING THE SAME SPACE. REFER TO SHEET E-001 FOR EMERGENCY AND EXIT FIXTURE INFORMATION.
C. PROVIDE AN UNSWITCHED 'HOT' CONDUCTOR TO ALL FLUORESCENT LIGHTING FIXTURES EQUIPPED WITH AN EMERGENCY BATTERY BACKUP BALLAST.
D. CIRCUITING BETWEEN LIGHTING FIXTURES AND SWITCHES ARE NOT SHOWN FOR CLARITY.
E. POWER EACH SMOKE DETECTOR FROM AN UNSWITCHED LIGHTING CIRCUIT SERVING THE SAME SPACE.
F. REFER TO SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.

KEYED NOTES

1. SWITCH BANK, REFER TO DETAIL 'E' ON THIS SHEET.
2. SWITCH BANK, REFER TO DETAIL 'D' ON THIS SHEET.
3. REFER TO DETAIL 'F' ON THIS SHEET FOR BACKLIGHTED PHOTO DISPLAY CASE LIGHTING CONFIGURATION.

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SAIC
From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

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0	08/15/11	ISSUE FOR CONSTRUCTION	JJ	JJ

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
ELECTRICAL LIGHTING PLAN

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ

DATE	08/15/11
SCALE	3/16"=1'-0"
PROJECT NUMBER	6351016000
SHEET	E-102
REV	0
	116 OF 120

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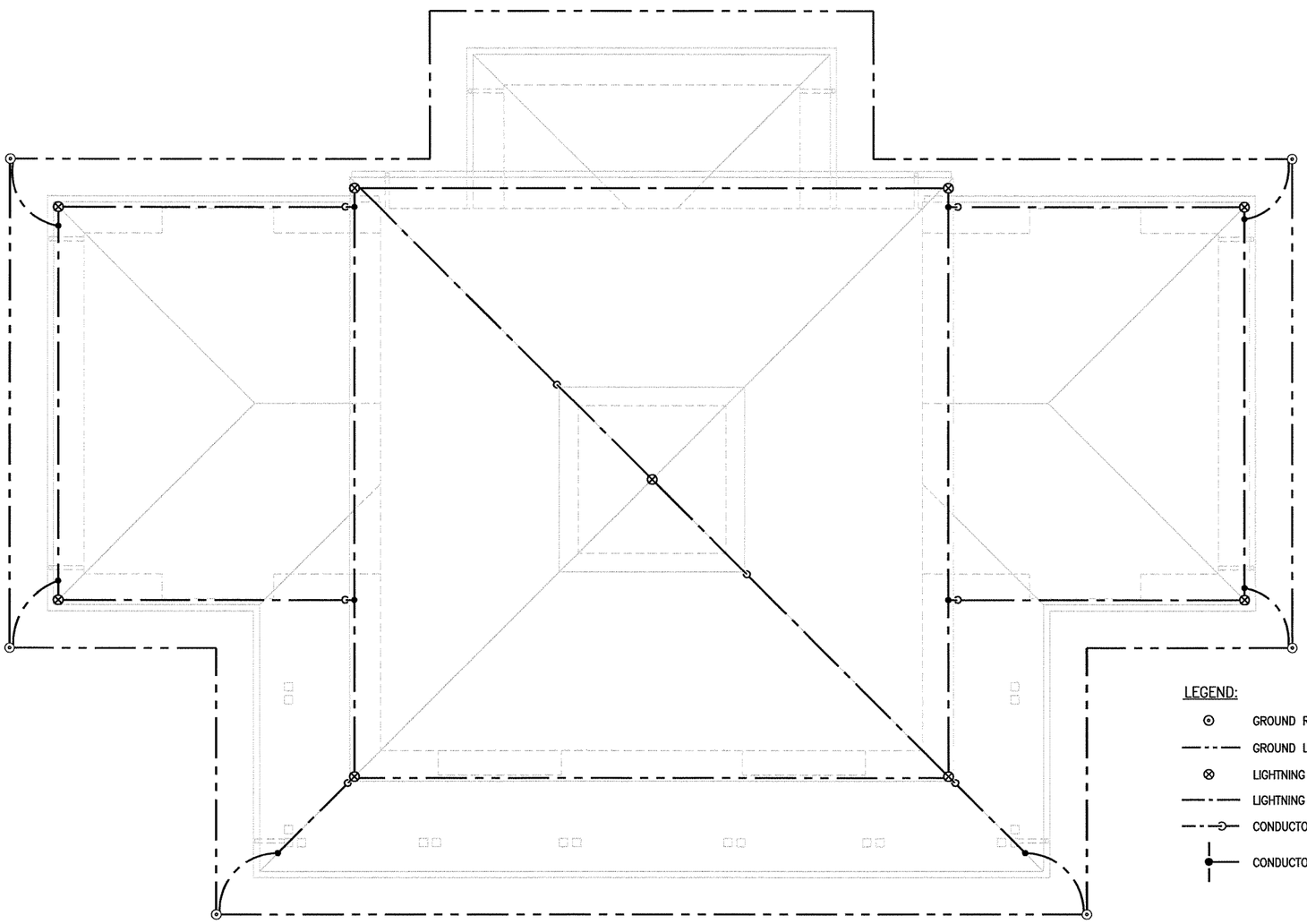

GENERAL NOTES: (THIS DRAWING)

A. ALL ROOF MOUNTED EQUIPMENT, FLUES, STACKS, LIGHTS, ETC SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM BY A #6 BARE COPPER BONDING CONDUCTOR OR COPPER BONDING STRAP PER NFPA 780.

B. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO ENSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS. MAXIMUM SPACING SHALL NOT EXCEED 20'-0".

C. AIR TERMINALS SHALL PROJECT A MINIMUM OF 10" ABOVE ANY PROTECTED OBJECT.

D. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR. ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90°.

E. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 36" ON CENTER, MAX. VERIFY COMPATIBILITY OF ADHESIVE ON ROOFING MATERIAL PRIOR TO INSTALLATION.

F. GROUNDING RODS SHALL NOT BE LESS THAN 12" BELOW FINISHED GRADE AND 24" FROM FOUNDATION WALL.

G. BOND LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN AND AS REQUIRED BY CODE.

H. SYSTEM SHALL BE INSTALLED AS SHOWN TO ENSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCES SHALL BE SUBMITTED FOR ENGINEERING APPROVAL PRIOR TO CONSTRUCTION.

I. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES. UL AND LPI CERTIFICATION MUST BE PROVIDED AT THE END OF PROJECT.

J. ALL MATERIALS SHALL BE UL LISTED AND LABELED.

K. ALL BELOW GRADE CONNECTIONS AND BUILDING STEEL BONDING POINTS SHALL BE EXOTHERMIC WELDS.

LEGEND:

- GROUND ROD
- GROUND LOOP
- LIGHTNING TERMINAL
- LIGHTNING PROTECTION CONDUCTOR
- CONDUCTOR TURNING DOWN
- CONDUCTOR CONNECTION

A E-103 LIGHTNING PROTECTION PLAN
SCALE: 3/16"= 1'-0"

NORTH

SCALE IN FEET (3/16"=1'-0")

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From Science to Solutions
SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE, LLC
201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

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CERTIFICATE OF AUTHORIZATION — SAIC Energy, Environment & Infrastructure, LLC No. 510 — ARKANSAS

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 13428 — JOSHUA W. JOYCE

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

LIGHTNING PROTECTION PLAN

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	E-103
REV	0

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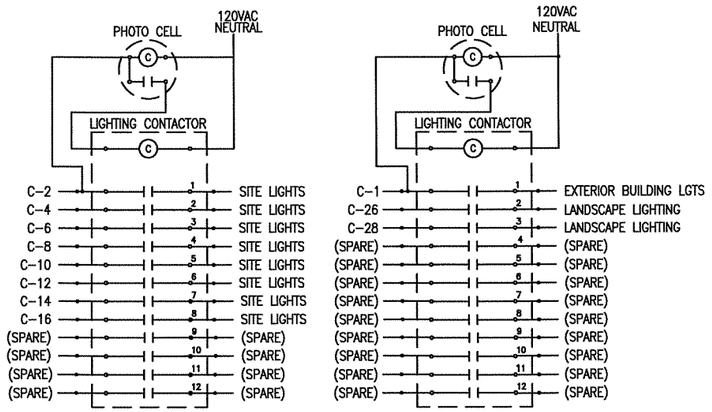
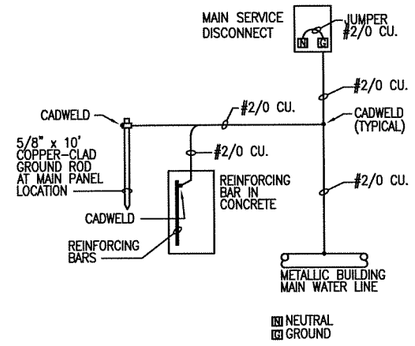
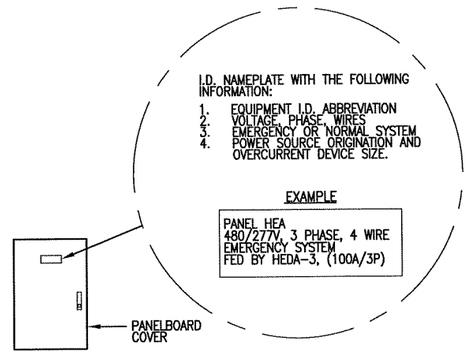


NOTES:
1. PHOTOELECTRIC CELLS SHALL BE INTERMATIC #K4221C WITH ADJUSTABLE SENSITIVITY, OR EQUAL. THE CONTRACTOR SHALL ADJUST DURING NIGHT HOURS TO INSURE PROPER OPERATION.
2. LIGHTING CONTACTORS SHALL BE 30 AMP, 120V COIL, MECHANICALLY HELD WITH THE REQUIRED NUMBER OF POLES SHOWN.

A E-501 OUTDOOR LIGHTING CONTACTORS
SCALE: N.T.S.

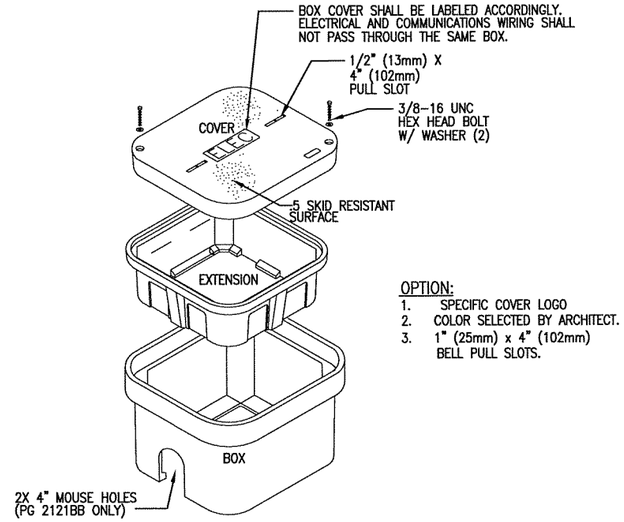


B E-501 GROUNDING DIAGRAM
SCALE: N.T.S.



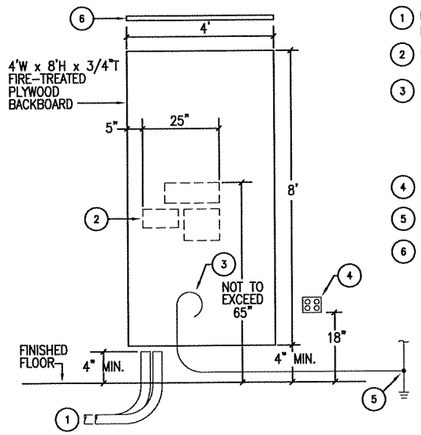
PANEL IDENTIFICATION NOTES:
1. SIMILAR FOR DISCONNECTS, MOTOR CONTROLLERS, TRANSFORMERS, LIGHTING CONTROL PANEL, AUTOMATIC TRANSFER SWITCHES, ETC.

C E-501 PANELBOARD IDENTIFICATION DETAIL
SCALE: N.T.S.



OPTION:
1. SPECIFIC COVER LOGO
2. COLOR SELECTED BY ARCHITECT.
3. 1" (25mm) x 4" (102mm) BELL PULL SLOTS.

D E-501 IN-GRADE HANDHOLE DETAIL
SCALE: N.T.S.



KEYED NOTES:
1. UNDERGROUND TELEPHONE SERVICE CONDUIT TO FIVE FEET OUTSIDE BUILDING.
2. EQUIPMENT FURNISHED & INSTALLED BY TELEPHONE UTILITY.
3. (1) #6 AWG INSULATED SOLID COPPER GROUND WIRE CONDUCTOR IN IN 3/4" CONDUIT TO BUILDING ELECTRIC SERVICE GROUND CONDUCTOR, (LENGTH AS REQUIRED – FIELD-VERIFY). LEAVE A MINIMUM OF 10'-0" COILED UP AT BASE OF TELEPHONE BOARD.
4. QUADPLEX OUTLET ON DEDICATED 20A, 120V CIRCUIT. REFER TO ELECTRICAL POWER PLANS, E-101.
5. EXOTHERMIC WELD CONNECTION AT BUILDING ELECTRIC SERVICE GROUND CONDUCTOR.
6. TELECOM SHELF ABOVE TELEPHONE BOARD. REFER TO KEYED NOTE #10 ON SHEET E-101.

E E-501 TELEPHONE BOARD DETAIL
SCALE: N.T.S.

CERTIFICATE OF AUTHORIZATION SAIC Energy, Environment & Infrastructure, LLC No. 510 ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13428 JOSHUA J. JUTTE

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201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

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0	08/15/11	ISSUE FOR CONSTRUCTION	JJ	JJ

ARKANSAS WELCOME CENTER

West Helena, Arkansas
AHTD Job No. 110536

ELECTRICAL DETAILS

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	E-501
REV	0

118 OF 120

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EQUIPMENT SCHEDULE

EQUIPMENT	DESCRIPTION	VOLTAGE	PHASE	AMPS	CONDUIT	WIRE SIZE	DISCONNECT ENCLOSURE	DISCONNECT SIZE	DISCONNECT FUSING	NOTES
ERV-1	ENERGY RECOVERY VENT.	240	1	11.7	3/4"	2#12, 1#12(G)	NEMA 1	30A2P	NON-FUSIBLE	
HP-1	HEAT PUMP	240	1	41.8	1"	2#4,1#8(G)	NEMA 1	60A2P	NON-FUSIBLE	
HP-2	HEAT PUMP	240	1	29.3	3/4"	2#8, 1#10(G)	NEMA 1	60A2P	NON-FUSIBLE	
HP-3	HEAT PUMP	240	1	14.5	3/4"	2#10, 1#10(G)	NEMA 1	30A2P	NON-FUSIBLE	
HP-4	HEAT PUMP	240	1	14.5	3/4"	2#10, 1#10(G)	NEMA 1	30A2P	NON-FUSIBLE	
GLP-1	GROUND LOOP PUMP	240	1	4.9	3/4"	2#12, 1#12(G)	NEMA 1	30AMP	NON-FUSIBLE	
GLP-2	GROUND LOOP PUMP	240	1	4.9			NEMA 1	30AMP	NON-FUSIBLE	
EUH-1	ELECTRIC UNIT HEATER	240	1	20.9	3/4"	2#10, 1#10(G)	INTEGRAL			
EUH-2	ELECTRIC UNIT HEATER	240	1	20.9	3/4"	2#10, 1#10(G)	INTEGRAL			
EF-1	EXHAUST FAN	120	1	5.6	3/4"	1#12, 1#12(G)	BRANCH CIRCUIT BREAKER			NOTE 1
EWH-1	WATER HEATER	240	1	37.5	3/4"	2#6, 1#10(G)	NEMA 1	60A2P	NON-FUSIBLE	
EWH-2	WATER HEATER	240	1	69	1"	4#8, 1#8(G)	NEMA 1	60A4P	NON-FUSIBLE	
HWCP-1	HOT WTR. RECIR PUMP	120	1		3/4"	2#12, 1#12(G)	MOTOR STARTER SWITCH			NOTE 1
	DUAL COFFEE BREWER	240	1	25	3/4"	2#10, 1#10(G)	OUTLET PLUG			
	RANGE	240	1	40	3/4"	2#6, 1#10(G)	OUTLET PLUG			
	HAND DRYERS (5 TOTAL)	240	1	8	3/4"	2#12, 1#12(G)	BRANCH CIRCUIT BREAKER			NOTE 1

NOTES:
1. PROVIDE BRANCH CIRCUIT BREAKER HANDLE LOCKOUT DEVICE.

LIGHTING FIXTURE SCHEDULE

TYPE	MFGR.	MODEL	DESCRIPTION	MOUNTING TYPE	MOUNTING HEIGHT	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	VOLTS	FINISH	NOTES
A	LIGHTOLIER	SPS2GFSVA332	3-LAMP 2'x4' FLUORESCENT TROFFER	RECESSED		3	32	F32T8	120	-	
B	LIGHTOLIER	8096-FCLW-S7226H-U	7" LENSED DOWNLIGHT	RECESSED		2	26	CFL	120	-	NOTE 1
BE	LIGHTOLIER	8096-FCLW-S7226H-U w/B75C	7" LENSED DOWNLIGHT w/BODINE BATT. PKG	RECESSED		2	26	CFL	120	-	NOTE 1
C	KICHLER	42617OZ	DECORATIVE CEILING FIXTURE	SURFACE		2	23	T2 CFL	120	BRONZE	
D	LIGHTOLIER	SM232-HPF-120-H1	4' STRIP FLUORESCENT	SURFACE		2	32	F32T8	120	-	NOTE 5
E	CHLORIDE	C850	EMERGENCY LIGHT UNIT BATT. POWERED	WALL	8' AFF	2	9	PAR36	120	-	NOTE 4
F	LIGHTOLIER	SWBT232HPF-120-H1-2AWG3WCSP	8' STRIP FLUORESCENT	SUSPENDED	10' AFF	4	32	F32T8	120	-	NOTE 3
G	LIGHTOLIER	C17-MV-120	2' STRIP FLUORESCENT, DISPLAY CASE	SURFACE		1	17	F17T8	120	-	
H	KICHLER	42160Z	CUPOLA PENDANT	PENDANT	18' AFF	3	23	T2 CFL	120	BRONZE	
I	KICHLER	45161OZ	DECORATIVE SCONCE	WALL	6' AFF	1	60	KRYPTON	120	BRONZE	
J	PROGRESS	P5880-20	EXTERIOR FLUORESCENT SCONCE	WALL	5' AFF	1	26	CFL	120	ANTIQUE BRONZE	NOTE 2
K	HANOVER LANTERN	6382-BRZ-M-F-18F	LIGHTED BOLLARD	BOLLARD		1	18	CFL	240	BRONZE	NOTE 2
L	HADCO	CL32-M-D-K-N-H-3K-L55	PEDESTRIAN WALWAY LIGHTS	POLE	12' AFG	-	50	LED	240	BRONZE	NOTE 2
M	KIM LIGHTING	EL733-15LED120-DB	SITE ACCENT LIGHT	GROUND	8" AFG	1	15	LED	120	DARK BRONZE	NOTES 2,8
N	KIM LIGHTING	AFL17-70PMH120-CC-P	SITE SIGNAGE LIGHT	GROUND	8" AFG	1	70	PSMH	120	DARK BRONZE	NOTES 2,8
O	KIM LIGHTING	AFL15-70PMH120-CC-P	FLAG POLE LIGHT	GROUND	8" AFG	1	70	PSMH	120	DARK BRONZE	NOTES 2,8
P	HOLOPHANE	MS-2-A-400PM-24-H-3-LS-Z-F1	PARKING LOT LIGHTING STANDARD	POLE	35'-0"	1	400	PSMH	240	DARK BRONZE	NOTE 2
	HOLOPHANE	SSS3555G-D2-H-BZ	STRAIGHT SQUARE STEEL POLE FOR TYPE P							DARK BRONZE	
Q	LIGHTOLIER	CS6132	6" WALL MOUNT DOWNLIGHT	WALL	19' AFF	1	32	CFL	120	WHITE	
X	CHLORIDE	CALIBER SERIES	EDGE-LIT LED EXIT SIGN	WALL	8' AFF	-	-	LED	120	ORNAMENTAL BRONZE	NOTE 4

NOTES:
1. UL LISTED FOR DAMP LOCATIONS.
2. UL LISTED FOR WET LOCATIONS.
3. PROVIDE WIRE GUARD
4. POWER FIXTURE FROM UNSWITCHED LIGHTING CIRCUIT SERVING THE SAME SPACE.
5. MOUNT A BOTTOM EDGE OF MECHANICAL EQUIPMENT.
8. PROVIDE MANUFACTURER'S STANDARD CAST IN PLACE STANCTION MOUNT.

Panel 'A'

120 Volts L-N 1Ø, 3W; 240 Volts L-L; 22,000 AIC BRANCH BRKRS; 600A MAIN LUGS ONLY; COPPER BUS; EQUIP. GROUNDING BAR; TYPE: NQOD; NEMA 1 ENCLOSURE; SURFACE MOUNTED

Service	Ckt. No.	Conn. Load	Brkr.	Phase AØ	Phase CØ	Brkr.	Conn. Load	Ckt. No.	Service
RCPT - STORAGE	1	720	20/1			20/1	100	2	HWCP-1
RCPT - EXTERIOR	3	540	20/1			30/2	3000	4	COFFEE MAKER
RCPT - TELEPHONE BOARD	5	360	20/1				3000	6	
RCPT - OFFICE	7	900	20/1			20/1	1000	8	REFRIGERATOR
RCPT - WORK ROOM	9	540	20/1			20/1	1200	10	GARBAGE DISPOSER
RCPT - TV	11	1000	20/1			20/1	1000	12	DISHWASHER
RCPT - CUSTOMER SERVICE	13	540	20/1			20/1	1200	14	OVERHEAD DOOR
RCPT - CUSTOMER SERVICE	15	720	20/1			70/2	5016	16	HP-1
RCPT - INFO DESK	17	720	20/1				5016	18	
RCPT - FLOOR	19	720	20/1			40/2	3516	20	HP-2
RCPT - SPRINKLER CONTROLS	21	300	20/1				3516	22	
RCPT - INTERNET KIOSK	23	360	20/1			20/2	1176	24	GLP-1 & GLP-2
REPT - MICROWAVE	25	180	20/1				1176	26	
SPARE	27	0	20/1			50/2	4500	28	EWH-1
SPARE	29	0	20/1				4500	30	
SPARE	31	0	20/1			100/2	8930	32	PANLE 'B'
SPARE	33	0	20/1				8930	34	
ERV-1	35	1752	20/1			100/2	7973	36	PANEL 'C'
	37	1752					6054	38	
TVSS	39	0	30/2			200/2	12254	40	PANEL 'M'
3/4"C.2#10,1#10(N)1#10(G)	41	0					10706	42	
PROVIDE IDENTIFIED HANDLE TIES FOR	Totals	AØ		CØ		Totals	DIVERSIFIED LOAD		
ALL MULTIWIRE BRANCH CIRCUITS PER	VA	50 510		54 357		VA	101 498		
NEC 210.4	AMPS	420.9		453.0		AMPS	422.9		

Panel 'C'

120 Volts L-N 1Ø, 3W; 240 Volts L-L; 22,000 AIC BRANCH BRKRS; 225A MAIN LUGS ONLY; COPPER BUS; EQUIP. GROUNDING BAR; TYPE: NQOD; NEMA 1 ENCLOSURE; SURFACE MOUNTED

Service	Ckt. No.	Conn. Load	Brkr.	Phase AØ	Phase CØ	Brkr.	Conn. Load	Ckt. No.	Service
LGTS - EXTERIOR FRONT	1	458	20/1			20/2	1320	2	LGTS - SITE POLES
LGTS - EXTERIOR REAR	3	26	20/1				1320	4	
LGTS - STOR. 108, MECH. LOFT	5	565	20/1			20/2	1320	6	LGTS - SITE POLES
LGTS - RMS.107,108,109	7	530	20/1				1320	8	
LGTS - PHOTO DISPLAY CASE	9	337	20/1			20/2	200	10	LGTS - PEDESTRIAN POLES
LGTS - RMS. 103,105	11	326	20/1				200	12	
LGTS - RM. 101	13	480	20/1			20/2	403	14	LGTS - PEDESTRIAN POLES
SPARE	15	0	20/1				403	16	
LGTS - RM. 101	17	1330	20/1			20/2	0	18	SPARE
LGTS - RM. 101	19	400	20/1				0	20	
LGTS - RMS. 111,113	21	326	20/1			20/2	0	22	SPARE
LGTS - RMS. 112, 114	23	1144	20/1				0	24	
LGTS - RMS. 104, 106	25	1144	20/1			20/1	90	26	LTGS. - LANDSCAPE/WALKWAY
SPARE	27	0	20/1			20/1	385	28	LTGS. - LANDSCAPE/WALKWAY
SPARE	29	0	20/1			20/1	0	30	SPARE
SPARE	31	0	20/1			20/1	0	32	SPARE
SPARE	33	0	20/1			20/1	0	34	SPARE
SPARE	35	0	20/1			20/1	0	36	SPARE
SPARE	37	0	20/1			20/1	0	38	SPARE
SPARE	39	0	20/1			20/1	0	40	SPARE
SPARE	41	0	20/1			20/1	0	42	SPARE
PROVIDE IDENTIFIED HANDLE TIES FOR	Totals	AØ		CØ		Totals			
ALL MULTIWIRE BRANCH CIRCUITS PER	VA	7 973		6 054		VA			
NEC 210.4	AMPS	66.4		50.5		AMPS			

Panel 'B'

120 Volts L-N 1Ø, 3W; 240 Volts L-L; 22,000 AIC BRANCH BRKRS; 225A MAIN LUGS ONLY; COPPER BUS; EQUIP. GROUNDING BAR; TYPE: NQOD; NEMA 1 ENCLOSURE; SURFACE MOUNTED

Service	Ckt. No.	Conn. Load	Brkr.	Phase AØ	Phase CØ	Brkr.	Conn. Load	Ckt. No.	Service
HAND DRYER - TOILET RM. 106	1	950	20/2			20/1	50	2	FAUCETS/FLUSH RM. 104,106
	3	950				20/1	50	4	FAUCETS/FLUSH 112,114
HAND DRYER - TOILET RM. 104	5	950	20/2			20/1	650	6	RCPT - RMS. 103,105
	7	950				20/1	650	8	RCPT - RMS. 111,113
HAND DRYER - TOILET RM. 112	9	950	20/2			20/2	1740	10	HP-3
	11	950					1740	12	
HAND DRYER - TOILET RM. 114	13	950	20/2			20/2	1740	14	HP-4
	15	950					1740	16	
HAND DRYER - TOILET RM. 109	17	950	20/2			20/1	0	18	SPARE
	19	950				20/1	0	20	SPARE
SPARE	21	0	20/1			20/1	0	22	SPARE
SPARE	23	0	20/1				0	24	SPACE
SPARE	25	0	20/1				0	26	SPACE
SPACE	27	0					0	28	SPACE
SPACE	29	0					0	30	SPACE
PROVIDE IDENTIFIED HANDLE TIES FOR	Totals	AØ		CØ		Totals			
ALL MULTIWIRE BRANCH CIRCUITS PER	VA	8 930		8 930		VA			
NEC 210.4	AMPS	74.4		74.4		AMPS			

Panel 'M'

120 Volts L-N 1Ø, 3W; 240 Volts L-L; 10,000 AIC BRANCH BRKRS; 200A2P MAIN BREAKER; COPPER BUS; EQUIP. GROUNDING BAR; TYPE: NQOD; NEMA 1 ENCLOSURE; SURFACE MOUNTED

Service	Ckt. No.	Conn. Load	Brkr.	Phase AØ	Phase CØ	Brkr.	Conn. Load	Ckt. No.	Service
LGTS	1	300	20/1			20/1	540	2	RCPT
EUH-1	3	2500	30/2			20/1	360	4	RCPT
	5	2500				20/1	540	6	RCPT
EUH-2	7	2500	30/2			20/1	360	8	RCPT
	9	2500				20/1	360	10	RCPT
EWH-2	11	2157	40/2			20/1	672	12	EF-1
	13	2157				20/1	1200	14	OVERHEAD DOOR
EWH-2	15	2157	40/2			20/1	0	16	SPARE
	17	2157				20/1	0	18	SPARE
SPARE	19	0	20/1			20/1	0	20	SPARE
SPARE	21	0	20/1			20/1	0	22	SPARE
SPARE	23	0	20/1				0	24	SPACE
SPACE	25	0					0	26	SPACE
SPACE	27	0					0	28	SPACE
SPACE	29	0					0	30	SPACE
PROVIDE IDENTIFIED HANDLE TIES FOR	Totals	AØ		CØ		Totals			
ALL MULTIWIRE BRANCH CIRCUITS PER	VA	12 254		10 706		VA			
NEC 210.4	AMPS	102.1		89.2		AMPS			

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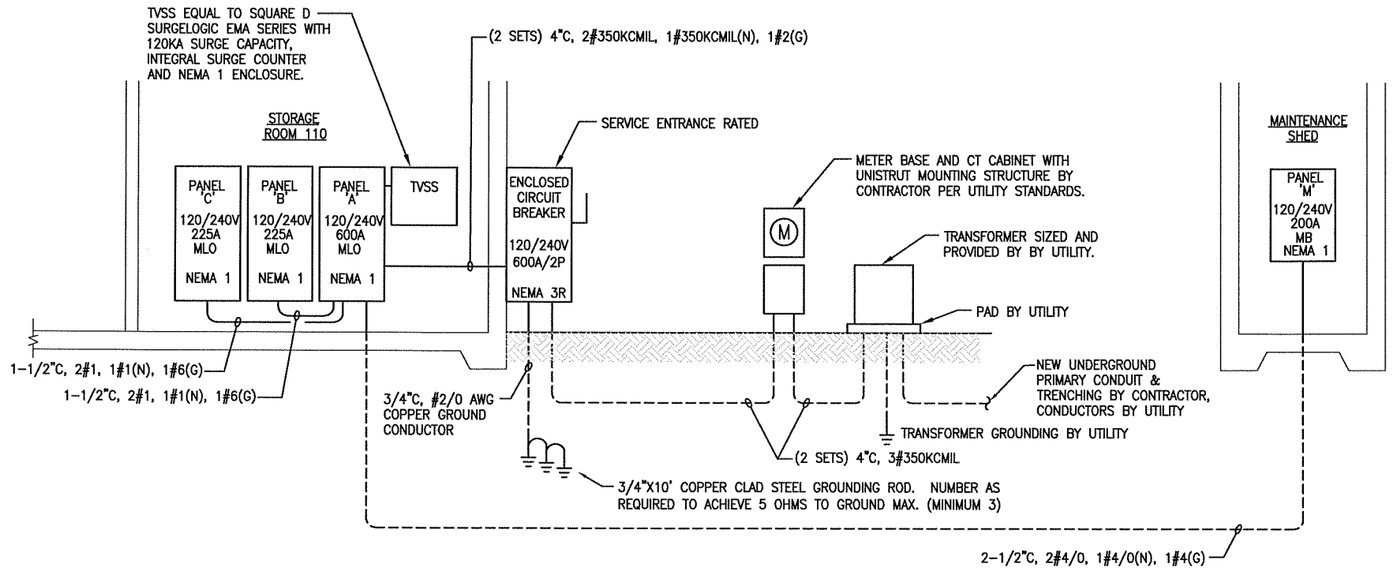
0	08/15/11		JJ	

ARKANSAS WELCOME CENTER
West Helena, Arkansas
AHTD Job No. 110536
ELECTRICAL SCHEDULES

DESIGNED BY	JWP
DRAWN BY	SLS
CHECKED BY	DWM
APPROVED BY	JWJ
DATE	08/15/11
SCALE	AS NOTED
PROJECT NUMBER	6351016000
SHEET	E-601
REV	0
	119 OF 120

CERTIFICATE OF AUTHORIZATION SAIC Energy, Environment & Infrastructure, LLC No. 510 ARKANSAS

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 13420 JOSHUA T. JOYCE



A E-602 POWER RISER DIAGRAM
SCALE: N.T.S.

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201 Presidential Drive
Lowell, Arkansas
(479) 770-5800
(479) 770-5801

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ARKANSAS WELCOME CENTER

West Helena, Arkansas
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POWER RISER DIAGRAM

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