DESIGN CRITERIA

1. GRAVITY LOADS
   A. UNIFORMLY DISTRIBUTED LIVE LOAD. .100 PSF RIVER TERACES, PEDESTRIAN BRIDGES
      200 PSF BULKHEADS, RETAINING WALLS
   B TRUCK LOADS .HS20-44 BULKHEADS, RETAINING WALLS
2. DESIGN DREDGE DEPTH (NEW BULKHEADS) .EL 228 0 NGVD

CONCRETE AND REINFORCING STEEL:

1. MINIMUM 28 DAY CONCRETE STRENGTHS SHALL BE AS FOLLOWS
   A. CAST-IN-PLACE CONCRETE 5,000 PSI
   B PRECAST CONCRETE - NON PRESTRESSED. . 6,000 PSI
2 CHAMFER ALL EXPOSED CORNERS WITH 1/2", 45° CHAMFER, UON
3 ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED
4. ALL CAST-IN-PLACE CONCRETE SHALL BE A NORMAL WEIGHT CONCRETE (145 PCF)
5. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315 AND ACI 301
6. PROVIDE BROOM FINISH FOR ALL WALKING SURFACES, UON
7. CONCRETE COVER FOR REINFORCEMENT, 2" CLR, UON
8 ALL CONSTRUCTION JOINTS BETWEEN CAST-IN-PLACE CONCRETE SHALL BE BONDED WITH EPOXY BONDING AGENT AND BE CLEANED WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE
9 LIFTING INSERTS SHALL BE PROVIDED IN ALL PRECAST MEMBERS TO FACILITATE LIFTING AND SUPPORTING MEMBERS DURING ERECTION PROVIDE ANY ADDITIONAL REINFORCING NECESSARY TO PREVENT CRACKS DURING HANDLING AND ERECTION
10 REINFORCING . . ASTM A615, GRADE 60
11. ALL REINFORCING BAR SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES, UON
12 CONSTRUCTION LOADS GREATER THAN 50% OF THE DESIGN LOAD FOR ANY PORTION OF THE STRUCTURE SHALL NOT BE IMPOSED UNTIL THE CONCRETE CYLINDER STRENGTH FOR THOSE MEMBERS AND CONNECTING POURS HAVE REACHED 80% OF THE 28 DAY CONCRETE STRENGTH
13 ALL DIMENSIONS AND ANGLES ASSOCIATED WITH PRECAST MEMBERS SHALL BE FIELD VERIFIED PRIOR TO PRECAST FABRICATION

STRUCTURAL AND MISCELLANEOUS STEEL

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
2 ALL WELDING SHALL CONFORM TO AWS D 1 1
3 MATERIAL SHALL CONFORM TO THE FOLLOWING, UON
   A. MACHINE BOLTS .ASTM A325, GALV
   B STEEL SHAPES . .ASTM A36, GALV
   C STEEL PLATES . .ASTM A36, GALV
   D TIE RODS. .ASTM A36, GALV
   E. ADHESIVE ANCHORS, STAINLESS STEEL. .ASTM A593
4 ALL STEEL SHAPES, PLATES, OTHER FABRICATIONS, AND ALL HARDWARE SHALL BE ZINC-COATED OR GALVANIZED BY THE HOT-DIP PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND / OR A153, AS APPLICABLE, AFTER FABRICATION, UNLESS OTHERWISE INDICATED ITEMS TO BE COMPLETELY EMBEDDED IN CONCRETE NEED NOT BE GALVANIZED
5. FIELD TREAT DAMAGED GALVANIZED STEEL FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZED COMPOUNDS OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A780 IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT

FOUNDATION

1 STEEL H-PILES AND PIPE PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 75 TONS TIP ELEVATIONS INDICATED ON PLANS ARE FOR BIDDING PURPOSES ONLY USE A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED

2 STEEL SHEET PILES SHALL CONSIST OF FULL INTERLOCKING SHEETS CONFORMING TO THE MATERIAL REQUIREMENTS OF ASTM A328

3 STEEL SHEET PILING SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED ON THE PLANS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF PILE AND CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED

4 KING PILES INDICATED ON PLANS ARE FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL PROBE SHEET PILE LINE AS OUTLINED BY SPECIFICATIONS TO TOP OF ROCK AND REPORT FINDINGS TO CONTRACTING AGENT CONTRACTING AGENT WILL THEN PROVIDE CONTRACTOR WITH REQUIRED QUANTITY AND LOCATIONS OF KING PILES

5 PREJETTING OF BEARING PILES WILL NOT BE ALLOWED

6 PREAUGERING OF BEARING PILES WILL BE ALLOWED, AS APPROVED BY CONTRACTING AGENT

7 THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS

8 MATERIALS
   STEEL HP PILES, PIPE PILES, AND KING PILES. .ASTM A36
   STEEL SHEET PILES ASTM A328
   MISCELLANEOUS SHAPES AND PLATES ASTM A36
   NUTS, BOLTS, AND WASHERS. ASTM A325 / A490

SEDIMENT AND EROSION CONTROL

1 SEE CIVIL DRAWINGS FOR SEDIMENT & EROSION CONTROL PLANS
2 ALL TEMPORARY ITEMS SHALL BE REMOVED AT END OF CONSTRUCTION

DEMOLITION ITEMS

1 ITEMS BEYOND THE SHORELINE (TIMBER PILES, DOLPHINS, POSTS, ETC) BE REMOVED TO THE MUDLINE OR TO THE DREDGE LINE AS REQUIRED

2 CONTRACTOR TO PROBE AND/OR DIG TEST PITS AS REQUIRED TO DETERMINE TYPE AND EXTENTS OF ROCK ISLAND RAILROAD BRIDGE ABUTMENT AND REPORT FINDINGS TO CONTRACTING AGENT CONTRACTOR SHALL AWAIT APPROVAL BY CONTRACTING AGENT PRIOR TO PARTIAL DEMOLITION OF BRIDGE ABUTMENT OR CONSTRUCTION OF AMPHITHEATER WALL

UTILITIES

1 EXTREME CARE MUST BE TAKEN FOR ALL WORK NEAR THE LITTLE ROCK WASTE WATER UTILITY 54" SANITARY SEWER MAIN EXCAVATION NEAR THE 54" MAIN SHALL NOT EXPOSE MORE THAN ONE JOINT (APPROXIMATELY 16') AT ONE TIME COORDINATE ALL WORK WITH THE LITTLE ROCK WASTE WATER UTILITY

ABBREVIATIONS

ACI = AMERICAN CONCRETE INSTITUTE
AISC = AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX = APPROXIMATE
ASTM = AMERICAN SOCIETY FOR TESTING MATERIALS
AWS = AMERICAN WELDING SOCIETY
BOTT = BOTTOM
CJ = CONSTRUCTION JOINT
CF = CUBIC FEET
CI = CAST IRON
CLR = CLEAR
CM = CORRUGATED METAL
CMP = CORRUGATED METAL PIPE
CONC = CONCRETE
COND = CONDUIT
CONST = CONSTRUCTION
CONT = CONTINUOUS
CORR = CORRUGATED
CTS = CENTERS
CY = CUBIC YARDS
DBL = DOUBLE
DEFL = DEFLECTION
DESC = DESCRIPTION
DET = DETAIL
DI = DUCTILE IRON
DISCONT = DISCONTINUOUS
E = EAST
EA = EACH
EL = ELEVATION
ELEV = ELEVATION
EQ = EQUAL
EW = EACH WAY
EXIST = EXISTING
EXP = EXPANSION
FT = FEET
GALV = GALVANIZED
GRND = GROUND
HORIZ = HORIZONTAL
IN = INCHES
INFO = INFORMATION
INV = INVERT ELEVATION
JT = JOINT
L = ANGLE
LF = LINEAR FEET
LG = LONG
LT = LEFT
MAX = MAXIMUM
MH = MANHOLE
MHW = MEAN HIGH WATER
MIN = MINIMUM
MISC = MISCELLANEOUS
MLW = MEAN LOW WATER
MTD = MOUNTED
N = NORTH
N T S = NOT TO SCALE
NO = NUMBER
O C = ON CENTER
OUTBD = OUTBOARD
P/S = PRESTRESSED
PERF = PERFORATED
PL = PLATE
PLATF = PLATFORM
PSI = POUND PER SQUARE INCH
PVC = POLYVINYL CHLORIDE
QTY = QUANTITY
RCP = REINFORCED CONCRETE PIPE
REQ'D = REQUIRED
RT = RIGHT
S = SOUTH
SCH = SCHEDULE
SHT = SHEET
SPA = SPACES
SQ = SQUARE
STA = STATION
T = TON
T O C = TOP OF CAP
T O S. = TOP OF SLAB
T O W = TOP OF WALL
TBR = TO BE REMOVED
TYP = TYPICAL
U/G = UNDERGROUND
UON = UNLESS OTHERWISE NOTED
VERT = VERTICAL
W = WEST
W/ = WITH
WP = WORK POINT
WWF = WELDED WIRE FABRIC
" = SECONDS OR INCH
' = MINUTES OR FEET
* = ASTERISK
□ = SQUARE
= NUMBER OR POUNDS
& = AND
@ = AT
℄ = CENTERLINE
ø = DIAMETER OR PHASE
° = DEGREES
PL = PLATE

WILLIAM J. CLINTON PRESIDENTIAL CENTER & PARK

LITTLE ROCK, ARKANSAS

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DAN EUSER WATERARCHITECTURE INC.
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Playground Design
PLAY SITE ARCHITECTURE
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978 263 1090

Signage Design
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Seal
STATE OF ARKANSAS 2342 REGISTERED PROFESSIONAL ENGINEER CIVIL JAMES M. SIDNEY C. SMITH

Issue		Date
03	100% Site Package 2 CD	09/27/02
02	90% Site Package 2 CD	08/16/02
01	60% Site Package 2 CD	08/29/02

Job No. 4913
Scale NONE
Date SEPTEMBER 27, 2002
Title SITE PACKAGE 2
100% CONSTRUCTION DOCUMENTS
Marine General Notes and Abbreviations
Sheet No
MC001

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