POOLS 25/26 HABITAT REHABILITATION AND ENHANCEMENT PROJECT

MISSISSIPPI RIVER
PIKE, LINCOLN AND ST. CHARLES COUNTIES, MISSOURI

HABITAT REHABILITATION

SOLICITATION NO. DACW43-03-R-XXXX

US Army Corps of Engineers®
St. Louis District

Gateway To Excellence

JANUARY 2008

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LIST OF ABBREVIATIONS:

BOT.	BOTTOM	N	NORTH
BRG.	BRIDGE	NO.	NUMBER
C/C	CENTER TO CENTER	N.T.S.	NOT TO SCALE
CIRC.	CIRCULAR	O.C.	ON CENTER
℄	CENTERLINE	OPNG.	OPENING
CMP	CORRUGATED METAL PIPE	P.C.	POINT OF CURVE
CO.	COUNTY	P.I.	POINT OF INTERSECTION
COL.	COLUMN	PL.	PLATE
CONC.	CONCRETE	P.O.C.	POINT ON CURVE
CONSTR.	CONSTRUCTION	P.O.T.	POINT ON TANGENT
DIA.	DIAMETER	PROP.	PROPOSED
DIM.	DIMENSION	P.S.I.	POUNDS PER SQUARE INCH
DWG.	DRAWING	P.S.F.	POUNDS PER SQUARE FOOT
E	EAST	P.T.	POINT OF TANGENCY
EA.	EACH	P.V.C.	POINT OF VERTICAL CURVE
E.F.	EACH FACE	P.V.I.	POINT OF VERTICAL INTERSECTION
EL.	ELEVATION	P.V.T.	POINT OF VERTICAL TANGENCY
ELEV.	ELEVATION	R.C.B.	REINFORCED CONCRETE BOX
EMBED.	EMBEDMENT	R.C.P.	REINFORCED CONCRETE PIPE
E.W.	EACH WAY	RD.	ROAD
ETC.	ET CETERA	RECT.	RECTANGLE
EXP.	EXPANSION	RT.	RIGHT
FL.	FLOOR	SIM.	SIMILAR
FRP	FIBER REINFORCED POLYMER	S.	SOUTH
FT.	FOOT	SP.	SPACE
GALV.	GALVANIZED	SQ.	SQUARE
H.S.	HIGH STRENGTH	S.R.	STRESS RELIEVED
HWL	HIGH WATER LEVEL	STA.	STATION
I.E.	INVERT ELEVATION	STD.	STANDARD
IN.	INCH	THK.	THICK
INV.	INVERT	T.O.S.	TOP OF STEEL
K.S.I.	KIPS PER SQUARE INCH	TYP.	TYPICAL
LBS.	POUNDS	U.A.C.	USE AS CONSTRUCTED
LIN.	LINEAR	VERT.	VERTICAL
L.R.	LOW RELAXATION	W.	WEST
LT.	LEFT	W/	WITH
LWL	LOW WATER LEVEL	WT.	WEIGHT
MAX.	MAXIMUM		
MFR.	MANUFACTURER		
MIN.	MINIMUM		
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES		

US Army Corps of Engineers St. Louis District

Symbol	Description	Date	Apv.
	Revisions		

Designed by: DAVIDSON MULFORD, P.E.
Date: JANUARY 2008
Dwn by: Will L Shields
Ckd by: Mulford J. Henrie
SUBMITTED: Michael R. Rector P.E. Chief, Civil Spec Section
Reviewed by: James E. Worts
APPROVED: Thomas J. Quigley P.E. Chief, Design Branch
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U.S. ARMY ENGINEER DIVISION
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ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
LINCOLN AND ST. CHARLES COUNTIES, MISSOURI

UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

ABBREVIATION LIST, LEGEND AND DRAWING INDEX

M-EMP-6

G-1

DRAWING NUMBER

VICINITY MAP

N

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St. Louis District

Symbol	Description	Date	Appr.
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Designed by: DARREN MULFORD, P.E.
Date: JANUARY 2008
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VICINITY MAP

M-EMP-6
G-2
DRAWING NUMBER

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POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

GENERAL SITE PLAN - BOLTERS ISLAND

M-EMP-6
G-3
DRAWING NUMBER

SCI PROJECT NO: 14574.04.00 R0

$$$$$$$$$$$$FILENAME$$$$$$$$$$$$

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GENERAL SITE PLAN - DARDENNE ISLAND

M-EMP-6
G-4
DRAWING NUMBER

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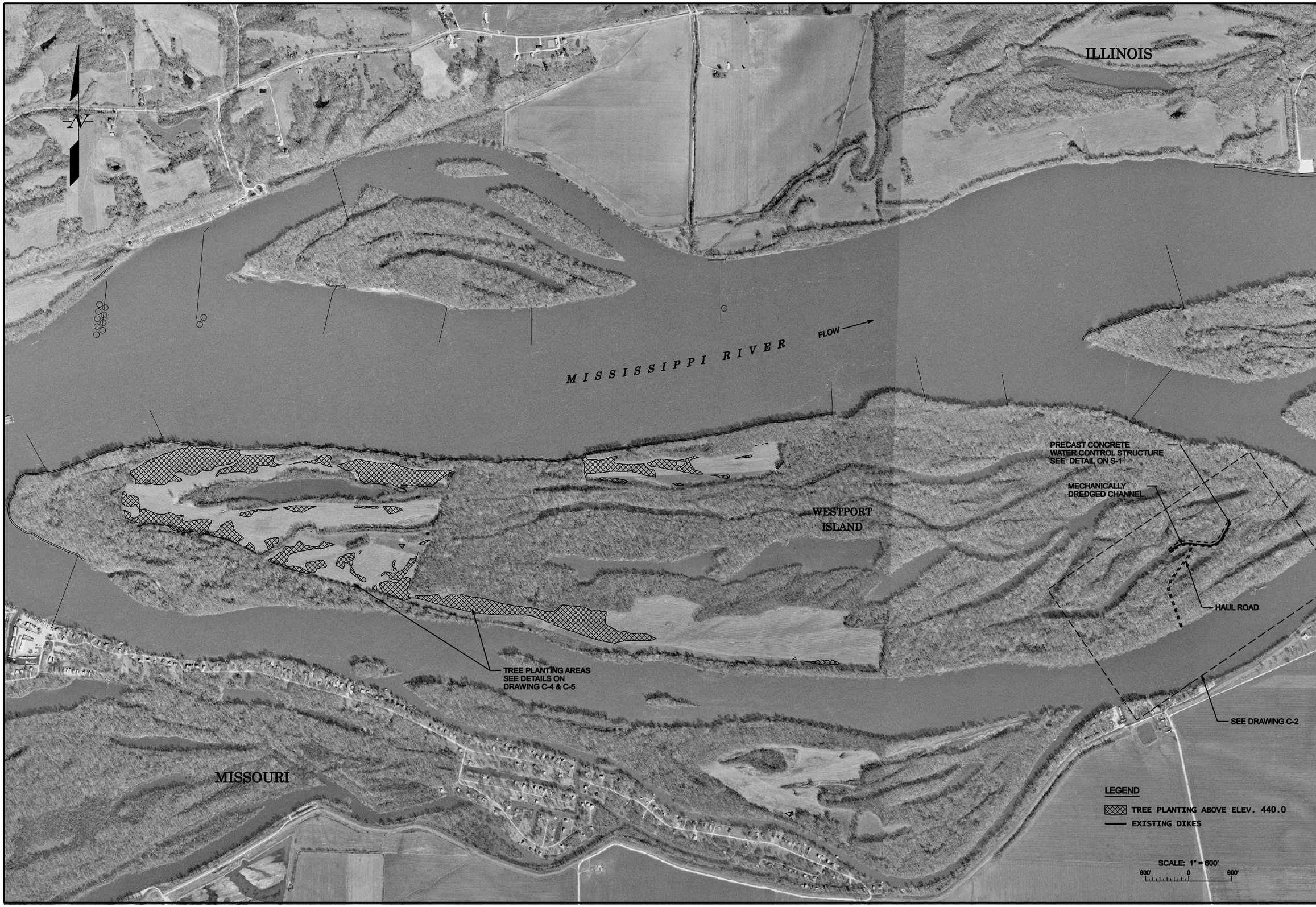

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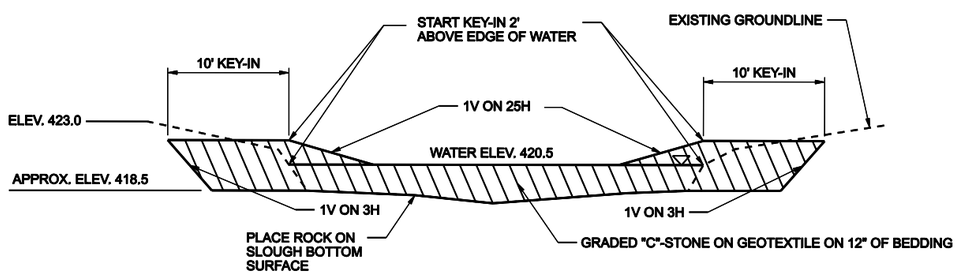
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

GENERAL SITE PLAN - WESTPORT ISLAND

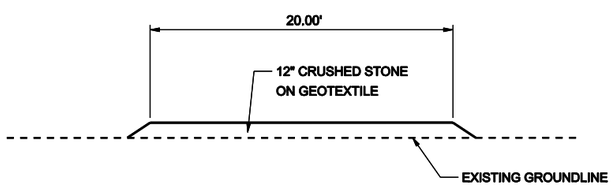
M-EMP-6
G-5
DRAWING NUMBER

MEMP6-G05.dgn 11/29/2007 9:15:17 AM



ROCK STRUCTURE PROFILE

NOT TO SCALE



HAUL ROAD

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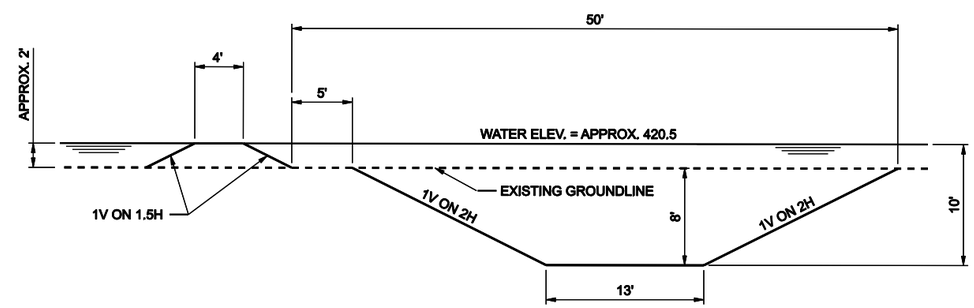

A SECTION
ROCK STRUCTURE AND DEEP HOLE

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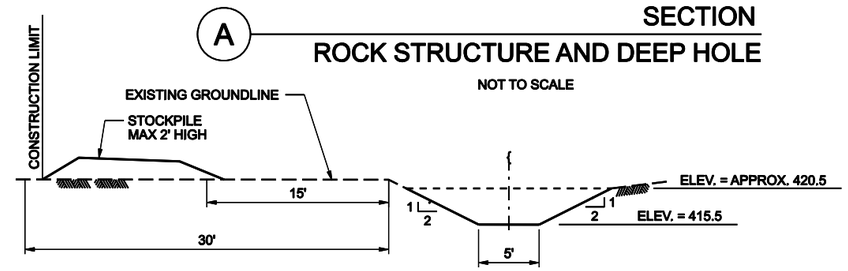

B SECTION
MECHANICAL DREDGE DETAIL

NOT TO SCALE

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Symbol	Description	Date	Apr.
	Revisions		

Designed by: DARREN MULFORD, P.E.
Date: JANUARY 2008
Drawn by: Will
Ckd by: Mulford
SUBMITTED:
Reviewed by:
APPROVED: Thomas J. Quigley P.E. Ckd. Design Branch
File name: M0EDSGMP6-EMP6PCN1CN1C0.dgn
Plot Scale: 1000000:1 Width
Plot date: 11/29/2007 1:59:26 PM
Plotted by: SCL, NO, WW3P0-N-8-0-0-0

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POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT
PLAN & DETAILS
BOLTERS ISLAND
ROCK STRUCTURE #1 & DEEP HOLE

M-EMP-6
C-1
DRAWING NUMBER

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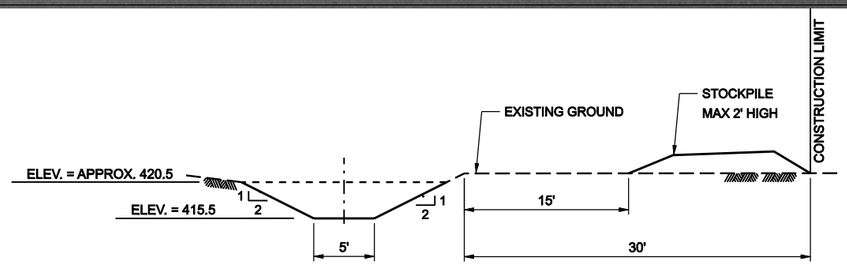

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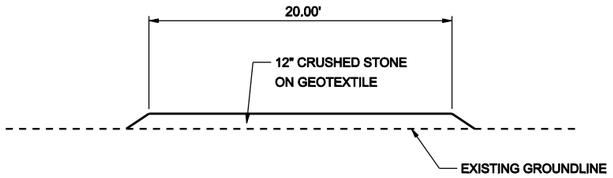
SECTION

MECHANICAL DREDGE DETAIL

NOT TO SCALE



HAUL ROAD

NOT TO SCALE

US Army Corps of Engineers
St. Louis District

Symbol	Description	Date	Apr.
	Revisions		

Date: JANUARY 2008
SUBMITTED:

Designed by:
Drawn by: WB
Ckd by: Mulford
Reviewed by:
APPROVED: Thomas J. Quigley P.E. Chief, Design Branch

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Model: BRANCH-MAIN
Plot scale:
Plot date:
SOL NO. W912P4-04-D-0029

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POOLS 25 / 26
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PLAN & DETAILS
WESTPORT ISLAND

M-EMP-6
C-2
DRAWING NUMBER

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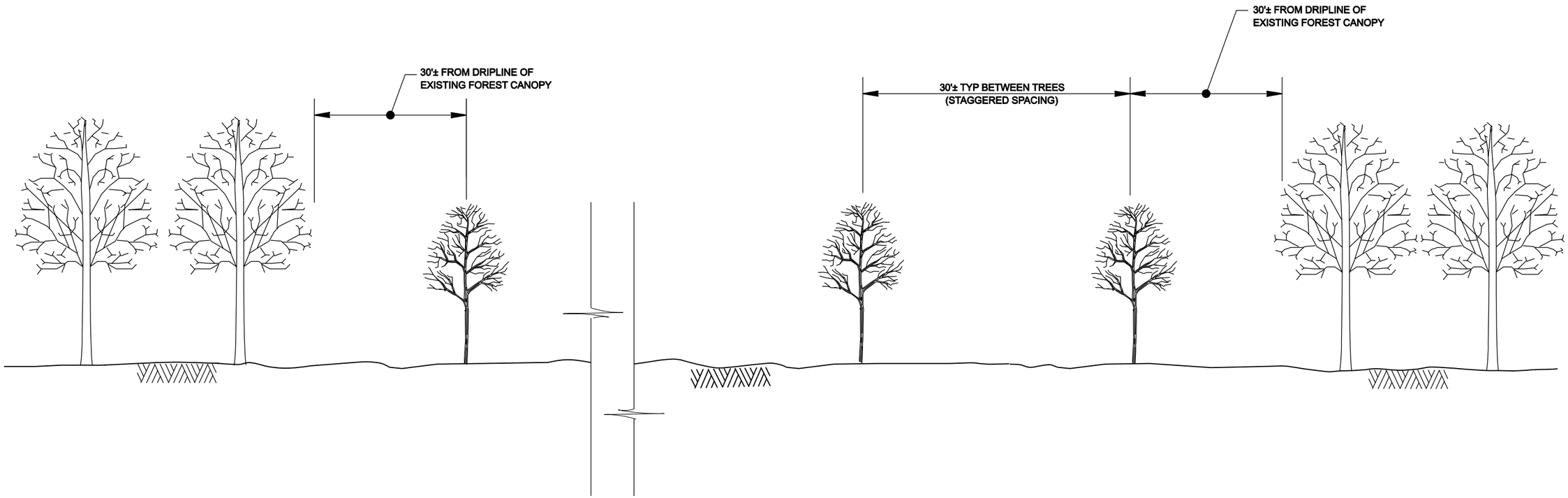

TYPICAL AGRICULTURAL FIELD AREA

NO SCALE

NOTES:

1. PLANT TREES ON STAGGERED SPACING.
   30'± TYPICAL SPACING BETWEEN TREES.
2. CLEAR UNWANTED WOODY ENCROACHMENT AND SEED CLEARED AREAS ONLY.
3. FOR AGRICULTURAL FIELD PLANTING DETAILS, SEE SHEET C-5.

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Symbol	Description	Date	Appr.
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Designed by: DARREN MULFORD, P.E.
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POOLS 25 / 26
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DETAILS
AG FIELD PLANTING

M-EMP-6
C-3
DRAWING NUMBER

SCI PROJECT NO: 14574.04.00 R0

$$$$$$$$$$$$FILENAME$$$$$$$$$$$$$

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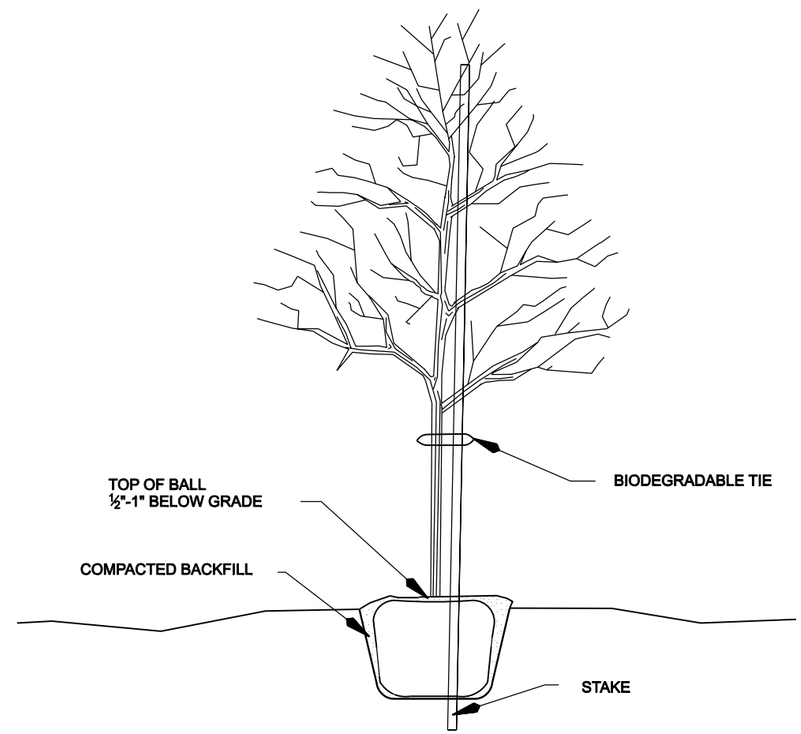
PLANTING AREAS						TREES					SHRUBS		TOTAL
LOCATION	APPROXIMATE AG FIELD AREAS ABOVE MIN. ELEV. (ACRES)	PLANTING ELEVATION	APPROXIMATE AREA TO BE CLEARED (ACRES)	APPROXIMATE AREA TO BE SEEDED (ACRES)	PLANTING DENSITY (STEMS/ACRE)	PIN OAK (QUERCUS PALUSTRIS)	SWAMP WHITE OAK (QUERCUS BICOLOR)	BUR OAK (QUERCUS MACROCARPA)	PECAN (CARYA ILLINOENSIS)	SCHUETTE OAK (QUERCUS X SCHUETTEI)	DECIDUOUS HOLLY (ILEX DECIDUA)	GREEN HAWTHORNE (CRATAEGUS VIRIDIS)	NO. OF TREES AND SHRUBS (APPROX. 30' x 30' SPACING)
WESTPORT ISLAND	59	ABOVE 440 FEET NGVD	59	59	49	542	542	241	542	542	241	241	2891
DARDENNE ISLAND	52	ABOVE 428 FEET NGVD	52	52	49	487	487	212	487	487	212	212	2548
TOTAL	111		111	111		1020	1020	453	1020	1020	453	453	5439



NOTE:

PIT MAY BE DUG THE SAME SIZE AS ROOT BALL OR JUST SLIGHTLY LARGER. (THIS WILL REDUCE TIPOVER DURING FLOODING)

TYPICAL CONTAINER TREE PLANTING DETAIL- AGRICULTURAL FIELD AREAS

NO SCALE

US Army Corps of Engineers
St. Louis District

Symbol	Description	Date	Appr.
	Revisions		

Designed by: DARREN MULFORD, P.E.
Drawn by: WR
Chk'd by: MulfordDate: JANUARY 2008
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APPROVED: Thomas J. Cadigan P.E. Chief, Design Branch
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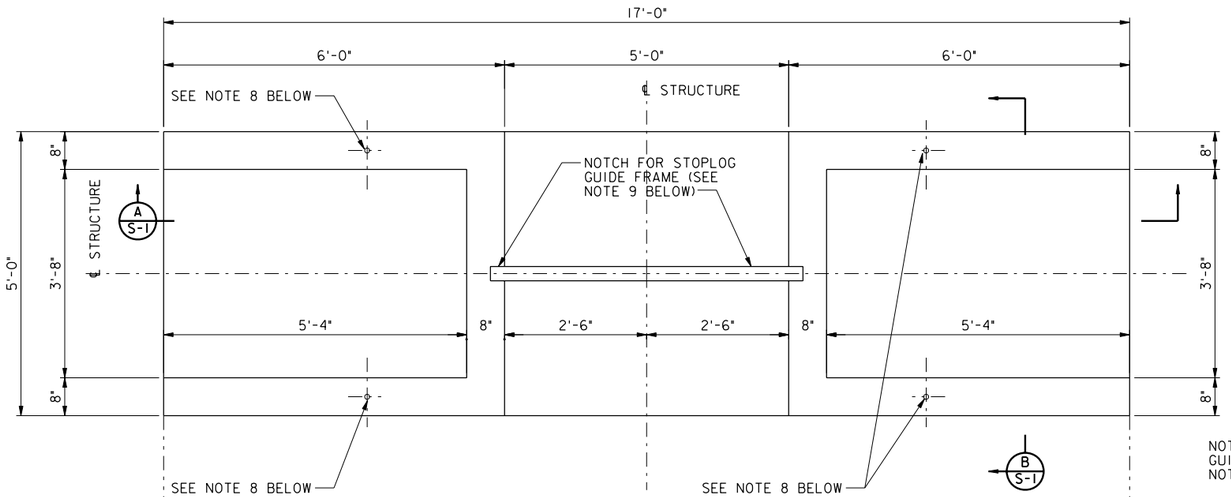
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 26 / 26
HABITAT REHABILITATION AND ENHANCEMENT

TREE PLANTING SCHEDULE AND DETAILS

M-EMP-6

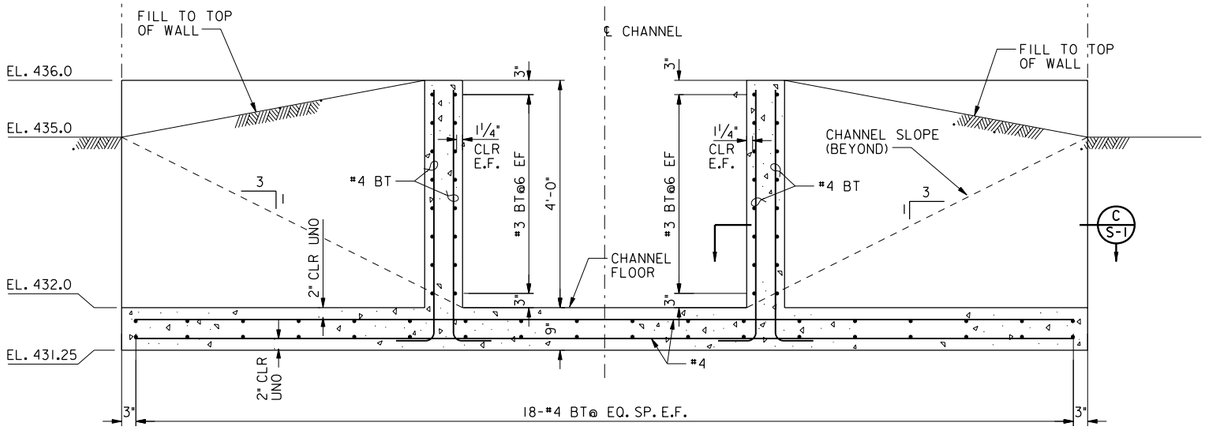
C-4

DRAWING NUMBER



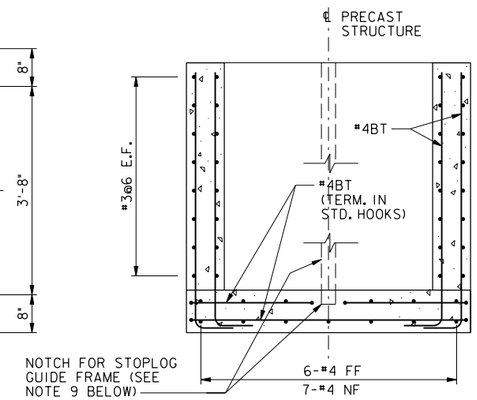
PLAN

SCALE: $\frac{3}{4}$" = 1'-0"



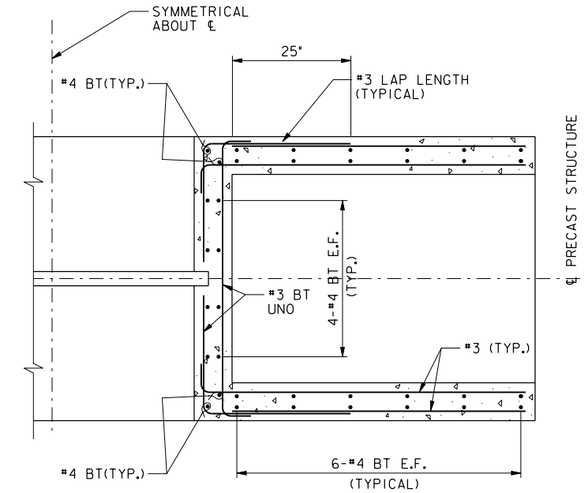
A SECTION S-1

SCALE: $\frac{3}{4}$" = 1'-0"



B SECTION S-1

SCALE: $\frac{3}{4}$" = 1'-0"



C SECTION S-1

SCALE: $\frac{3}{4}$" = 1'-0"

GENERAL NOTES

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 4000 PSI AT MAXIMUM OF 28 DAYS AND A MINIMUM DENSITY OF 145 PSI. SEE SPECIFICATIONS FOR SPECIFIC STRENGTH REQUIREMENTS.
2. ALL REINFORCING, UNLESS OTHERWISE INDICATED, SHALL HAVE A CONCRETE COVER AS SHOWN.
3. REBAR HOOKS AND BENDS NOT DIMENSIONED SHALL CONFORM TO A.C.I. RECOMMENDED SIZES.
4. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1" CHAMFER, U.N.O..
5. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, GRADE 60.
6. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE ON DRAWINGS.

   SPLICE TABLE FOR f'c = 4000 PSI, Fy = 60,000, CONCRETE DENSITY > 145 PSI

   REINFORCING SPLICES (INCHES)

BAR SIZE	TOP BAR	OTHER BARS
#3	25	19
#4	33	25

7. A 'TOP BAR' IS ANY HORIZONTAL BAR WITH MORE THAT 12" OF FRESH CONCRETE CAST BELOW THE BOTTOM OF THE BAR.
8. PICKUP POINTS TO BE DETERMINED BY FABRICATOR. REINFORCING SHOWN FOR SERVICE LOADS. SEE SPECIFICATIONS SECTION 03410 FOR ADDITIONAL REQUIREMENTS
9. STOPLOGS AND GUIDE FRAME TO BE BY PLASTI-FAB, INC. OR APPROVED EQUAL. WORK GUIDE REINFORCING LAYOUT WITH GUIDE FRAME DIMENSIONS AND EMBEDMENT DETAILS.

ABBREVIATIONS AND SYMBOLS:

BT	BENT
EA	EACH
EF	EACH FACE
EL	ELEVATION
EQ. SP.	EQUALLY SPACED
FS	FAR SIDE
NS	NEAR SIDE
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
℄	CENTER LINE
@	AT

US Army Corps of Engineers St. Louis District

Symbol	Description	Date	Apr.
	Revisions		

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APPROVED: Thomas J. Quigley P.E. Chief, Design Branch

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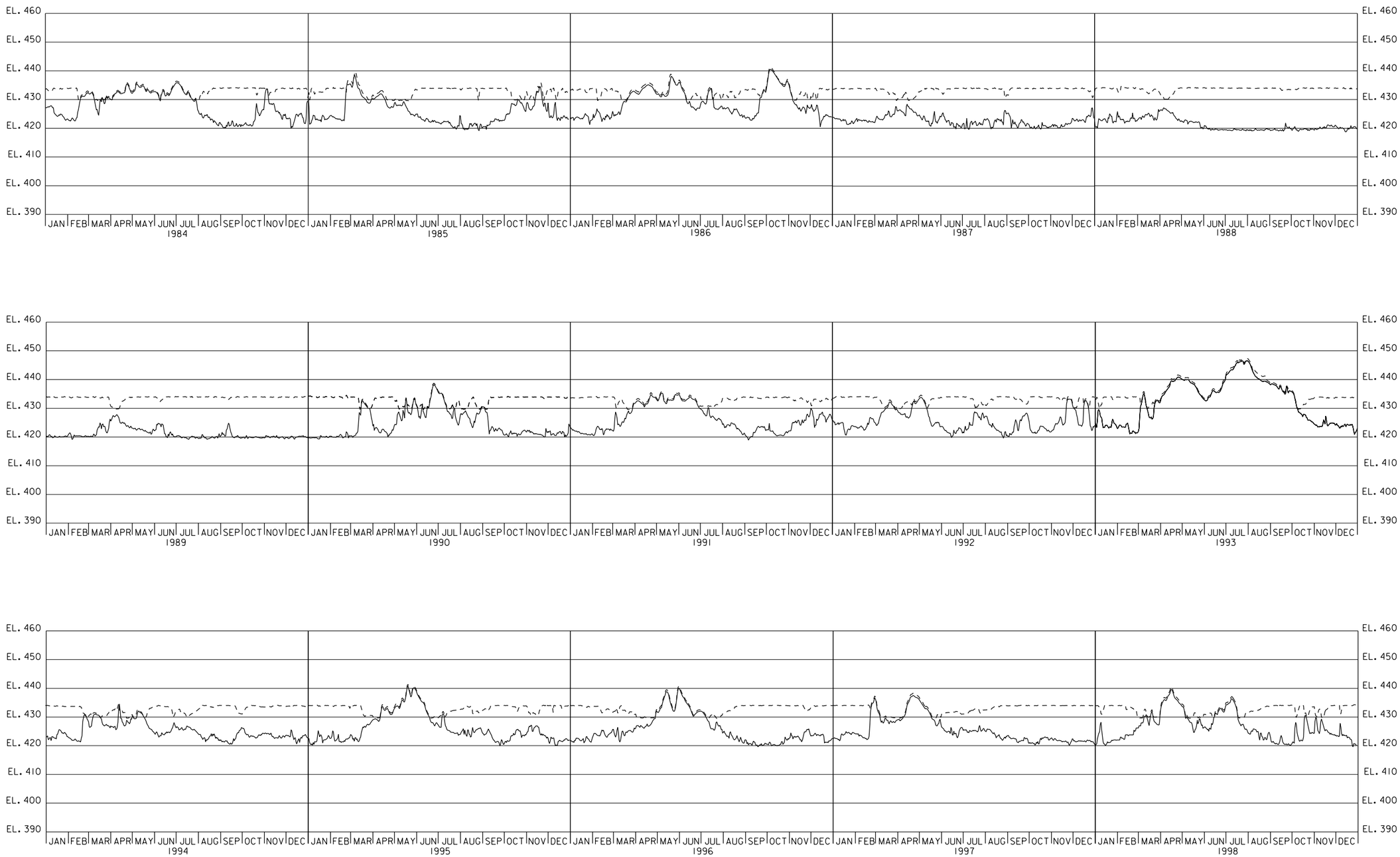
UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT
WATER CONTROL STRUCTURE
PLAN, SECTIONS AND GENERAL NOTES

M-EMP-6
S-1
DRAWING NUMBER



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File date: $$$DATE-TIME$$$
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ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

LOCK & DAM NO. 25 POOL
AND TAILWATER STAGE HYDROGRAPH
1984 TO 1998

M-EMP-6
H-1
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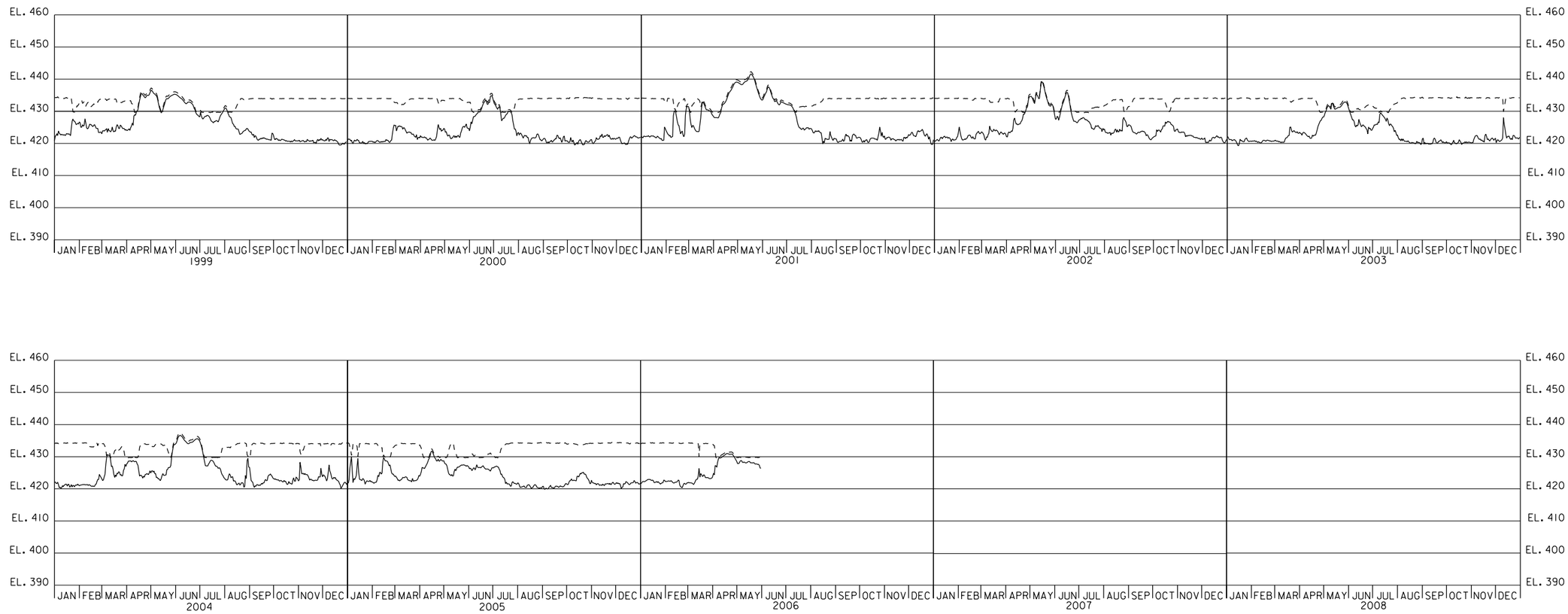

LEGEND:

- - - - POOL STAGE

——— TAILWATER STAGE

US Army Corps of Engineers St. Louis District

Symbol	Description	Date	Appr.
	Revisions		

Designed by:

Drawn by: WB | Ckd by: Mulford

Reviewed by:

APPROVED: Thomas J. Quigley P.E. Chief, Design Branch

Date: JANUARY 2009

SUBMITTED:

File name: M:\MISSISSIPPI\ESMP\CAD\FIGURES

File No. MEMP-6-H-02

Plot date:

SCL NO. MVS2PS-04-0-0209

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
LINCOLN AND ST. CHARLES COUNTIES, MISSOURI

UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

LOCK & DAM NO. 25 POOL
AND TAILWATER STAGE HYDROGRAPH
1999 TO PRESENT

M-EMP-6

H-2

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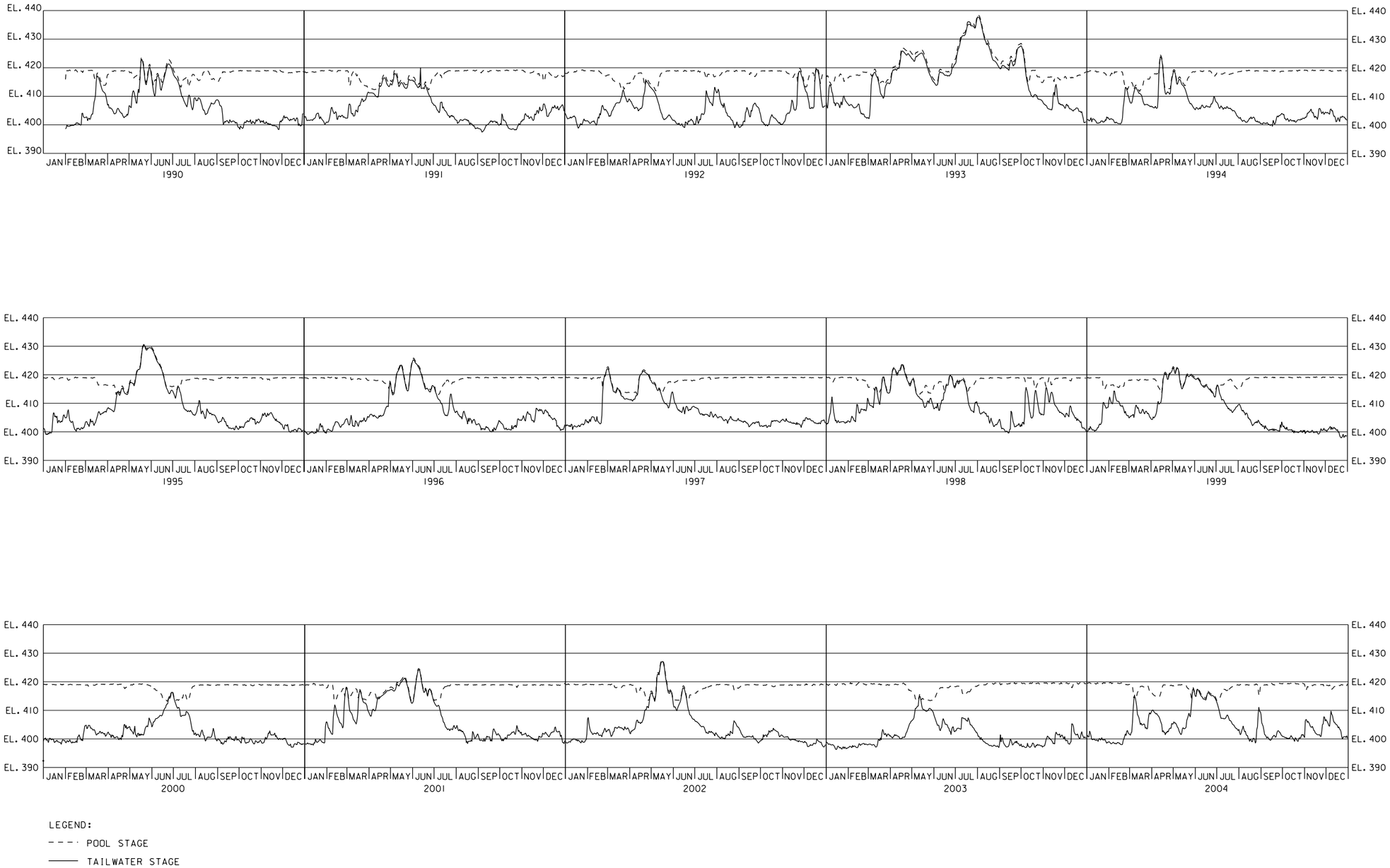

US Army Corps of Engineers
St. Louis District

Symbol	Description	Date	Appr.
	Revisions		

Designed by: DARREN MULFORD, P.E.
Drawn by: Wtt
Ckd by: Mulford
Reviewed by:
APPROVED: Thomas J. Quigley P.E. Chief, Design Branch
Date: JANUARY 2008
SUBMITTED:
File name: $$$DESIGN$FILES$PROPICATION$$$
Plot date: $$$DATE-TIME$$$
Plot scale: SOL. NO. W912F9-04-B-0039

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
LINCOLN AND ST. CHARLES COUNTIES, MISSOURI

UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT

LOCK & DAM NO. 26 POOL
AND TAILWATER STAGE HYDROGRAPH
1990 TO 2004

M-EMP-6
H-3
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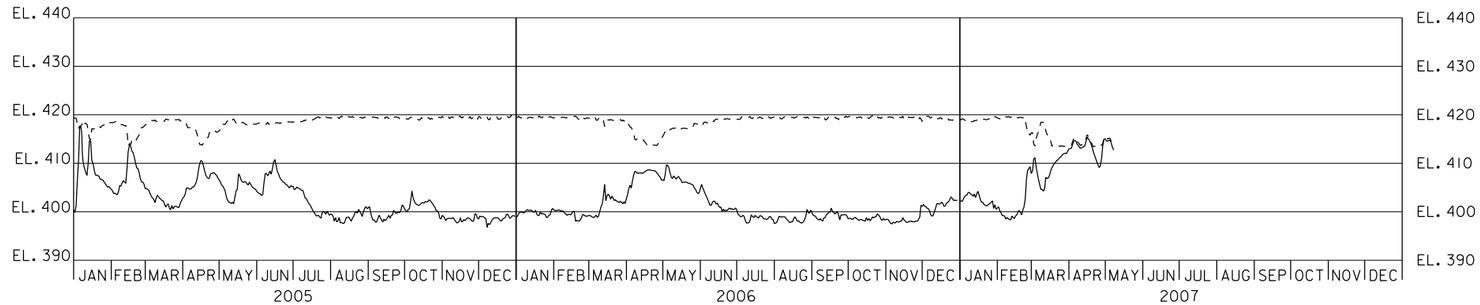

LEGEND:

---- POOL STAGE

——— TAILWATER STAGE

US Army Corps of Engineers
St. Louis District

Symbol	Description	Date	App.
	Revisions		

Designed by: DARREN MULFORD, P.E.
Drawn by: WB
Ckd by: Mulford
Reviewed by:
APPROVED: Thomas J. Quigley P.E. Chief, Design Branch
Date: JANUARY 2008
SUBMITTED:
File name: $$$DESIGN$FILES$PROJECTION$$$
Plot date: $$$DATE-TIME$$$
Plot scale:
SOL. NO. W912FP-04-B-0209

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
LINCOLN AND ST. CHARLES COUNTIES,
MISSOURI

UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMENT PROGRAM
POOLS 25 / 26
HABITAT REHABILITATION AND ENHANCEMENT
LOCK & DAM NO. 26 POOL
AND TAILWATER STAGE HYDROGRAPH
2005 TO PRESENT

M-EMP-6
H-4
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