US Army Corps
of Engineers®
St. Louis District

VALLEY PARK DRAINAGE AND LEVEE DISTRICT

SEEPAGE AND STONE PROTECTION REPAIR AT FISHPOT CREEK

VALLEY PARK, MISSOURI

Solicitation: W912P9-12-R-0703

NOVEMBER 2011

US Army Corps of Engineers®
Saint Louis District

MARK	DESCRIPTION	DATE	APPR

MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.MILLS
SUBMITTED BY: G. LEE
PLOT SCALE:
PLOT DATE: 04/02/2010
SIZE: ANSI D
FILE NAME:
DATE: SEPT 16, 2011
SOLICITATION NO.: WP12P9-12-R-0703
CONTRACT NO.:
FILE NUMBER:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK, MISSOURI

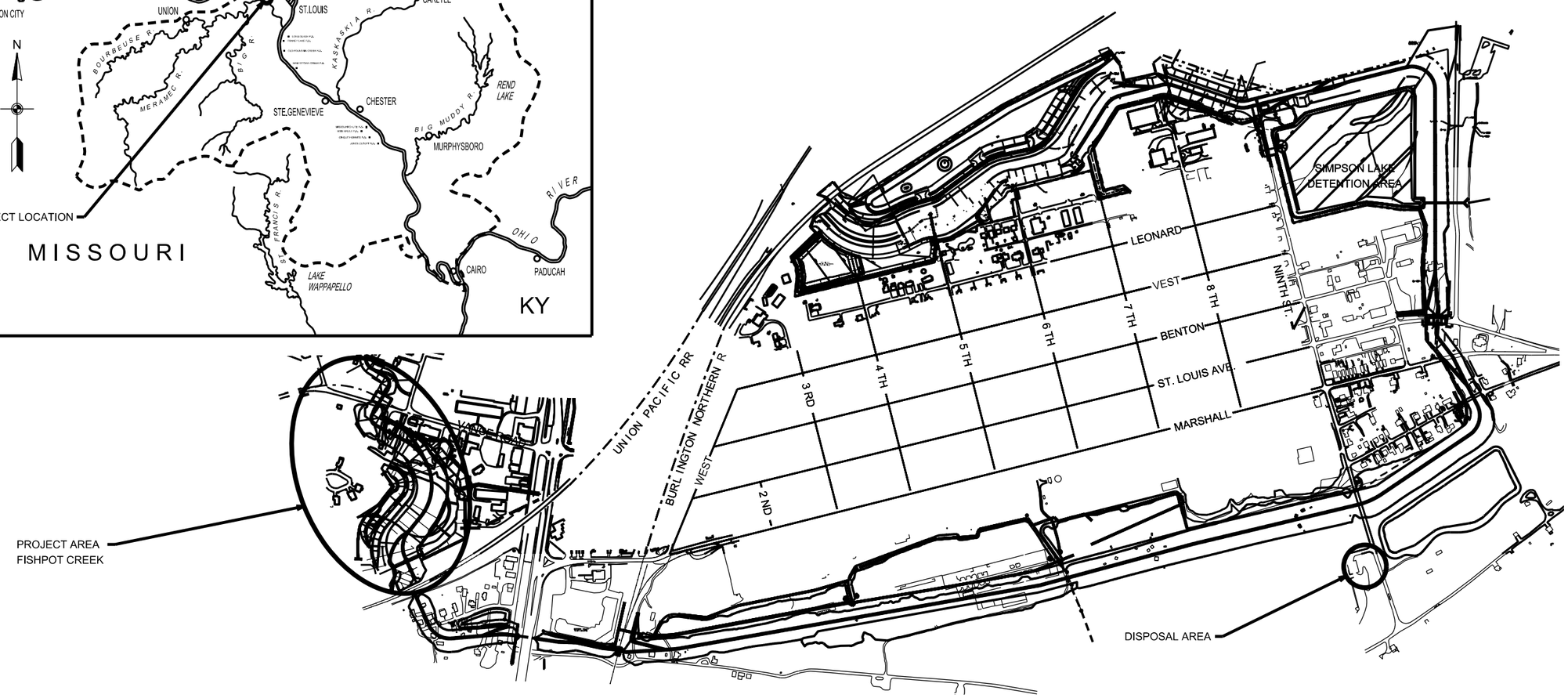
GENERAL
COVER SHEET

SHEET IDENTIFICATION
G-001

VICINITY MAP

PROJECT LOCATION MAP

NOT TO SCALE



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U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

PROJECT LOCATION

SHEET IDENTIFICATION
G-002

SHEET INDEX - SEEPAGE AND STONE PROTECTION REPAIR

SHEET	DESCRIPTION
GENERAL	
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G-002	PROJECT LOCATION AND VICINITY MAPS
G-003	INDEX SHEET, SYMBOLS, ABBREVIATIONS & GENERAL LEGEND
CIVIL	
CD101	DEMOLITION PLAN
CS101	EARTHWORK AND STONE PROTECTION PLAN
CS102	DISPOSAL PLAN
C-301	TYPICAL SECTIONS
C-302	TYPICAL SECTIONS
C-601	DATA TABLES
REFERENCE DRAWINGS	
COVER	COVER - FISHPOT CREEK BANK PROTECTION
ME-VP-14/G-1	INDEX OF DRAWINGS
ME-VP-14/G-2	PROJECT LOCATION
ME-VP-14/C-1	OVERALL PLAN
ME-VP-14/C-2	TYPICAL SECTIONS
ME-VP-14/C-3	CONSTRUCTION LIMITS
ME-VP-2/C-2	LEVEE PLAN STA 9+80 TO STA 20+00
ME-VP-2/C-3	LEVEE PLAN STA 20+00 TO UNION PACIFIC R.R.
ME-VP-2/C-4	LEVEE PROFILE STA. 0+00 TO UNION PARCIFIC R.R.
ME-VP-2/C-5	LEVEE SECTIONS AND PLAN - GRAVITY DRAIN
H-001	VALLEY PARK HYDROGRAPHS 1980 TO 1994
H-002	VALLEY PARK HYDROGRAPHS 1994 TO 2009
H-003	VALLEY PARK HYDROGRAPHS 2009 TO 2011

GENERAL NOTES

1. HORIZONTAL DATUM - MISSOURIE STATE PLANE EAST (ZONE 2401) NAD 83

VERTICAL DATUM- NATIONAL GEODETIC VERTICAL DATUM OF 1929

BOTH HORIZONTAL AND VERTICAL DATUM DETERMINED FROM EXISTING SURVEY CONTROL MONUMENTS SUPPLIED BY THE ST.LOUIS DISTRICT CORPS OF ENGINEERS.

2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION

3. AS-BUILT DESIGN FILES WERE USED FOR LAYOUT. THESE FILES MAY NOT ACCURATELY DEPICT THE LOCATION OF PROJECT FEATURES.

GENERAL CROSS-REFERENCING SYMBOLS

D — DETAIL/SECTION — SECTION/DETAIL TITLE ON SAME DRAWING (CENTERED UNDER SECTION/DETAIL)
SUPPLEMENTAL INFORMATION
SCALE: _____

_D / C-102 — DETAIL/SECTION — SECTION/DETAIL TITLE ON ANOTHER DRAWING (CENTERED UNDER SECTION/DETAIL)
SUPPLEMENTAL INFORMATION
SCALE: _____

TOP FRONT SIDE
ELEVATION SECTION _ — VIEW SUBTITLE (CENTERED UNDER EACH VIEW)

D — SECTION CUT W/ VIEW SHOWN ON SAME DRAWING

_D / C-302 — SECTION CUT W/ VIEW SHOWN ON ANOTHER DRAWING

1 — DETAIL SYMBOL W/ VIEW SHOWN ON SAME DRAWING

1 / C-501 — DETAIL SYMBOL W/ VIEW SHOWN ON ANOTHER DRAWING

ABBREVIATIONS

* UNLESS OTHERWISE NOTED ON EACH SHEET

APPROX	APPROXIMATE	HT	HEIGHT
ALT W/	ALTERNATE WITH	IF	INSIDE FACE
ALUM	ALUMINUM	LG	LONG
BITUM	BITUMINOUS	L/W	LANDWARD
BOT	BOTTOM	MAX	MAXIMUM
C/L	CENTER LINE	MIN	MINIMUM
C&G	CURB & GUTTER	MIRR	MIRRORED
CLR	CLEAR	MISC	MISCELLANEOUS
CJ	CONSTRUCTION JOINT	NF	NEAR FACE
CMP	CORRUGATED METAL PIPE	NO	NUMBER
CONC	CONCRETE	OF	OUTSIDE FACE
TOC	TOP OF CASTING	OC	ON CENTER
DIA	DIAMETER	R/W	RIVERWARD
DWG	DRAWING	SAN	SANITARY
EF	EACH FACE	SPEC	SPECIFICATIONS
EJ	EXPANSION JOINT	SST	STAINLESS STEEL
EL	ELEVATION	T&B	TOP AND BOTTOM
EW	EACH WAY	TYP	TYPICAL
EXIST	EXISTING	UNO	UNLESS NOTED OTHERWISE
FF	FAR FACE	UGND	UNDERGROUND
FES	FLARED END SECTION	W	WIDTH
GALV	GALVANIZED	WM	WATER MAIN

GENERAL LEGEND

P.I. POINT
FIRE HYDRANT
MANHOLE
CB — CATCHBASIN
WATER VALVE
REMOVED BUILDINGS
NEW SANITARY SEWER
NEW STORM SEWER
EXISTING SANITARY SEWER
EXISTING STORM SEWER
EXISTING WATERMAIN
EXISTING OVERHEAD P0WER
EXISTING UNDER-GROUND DUCT
EXISTING GAS

97-41M — BORING LOCATION AND NUMBER
M — MONITOR / INSPECTION MANHOLE
SHEETPILE
LIMITS OF WORK
FILL
CUT
SHEET ID X-000 — DWG OUTLINE AND NUMBER
EMBANKMENT
BM ____ — BENCHMARK

US Army Corps of Engineers®
Saint Louis District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

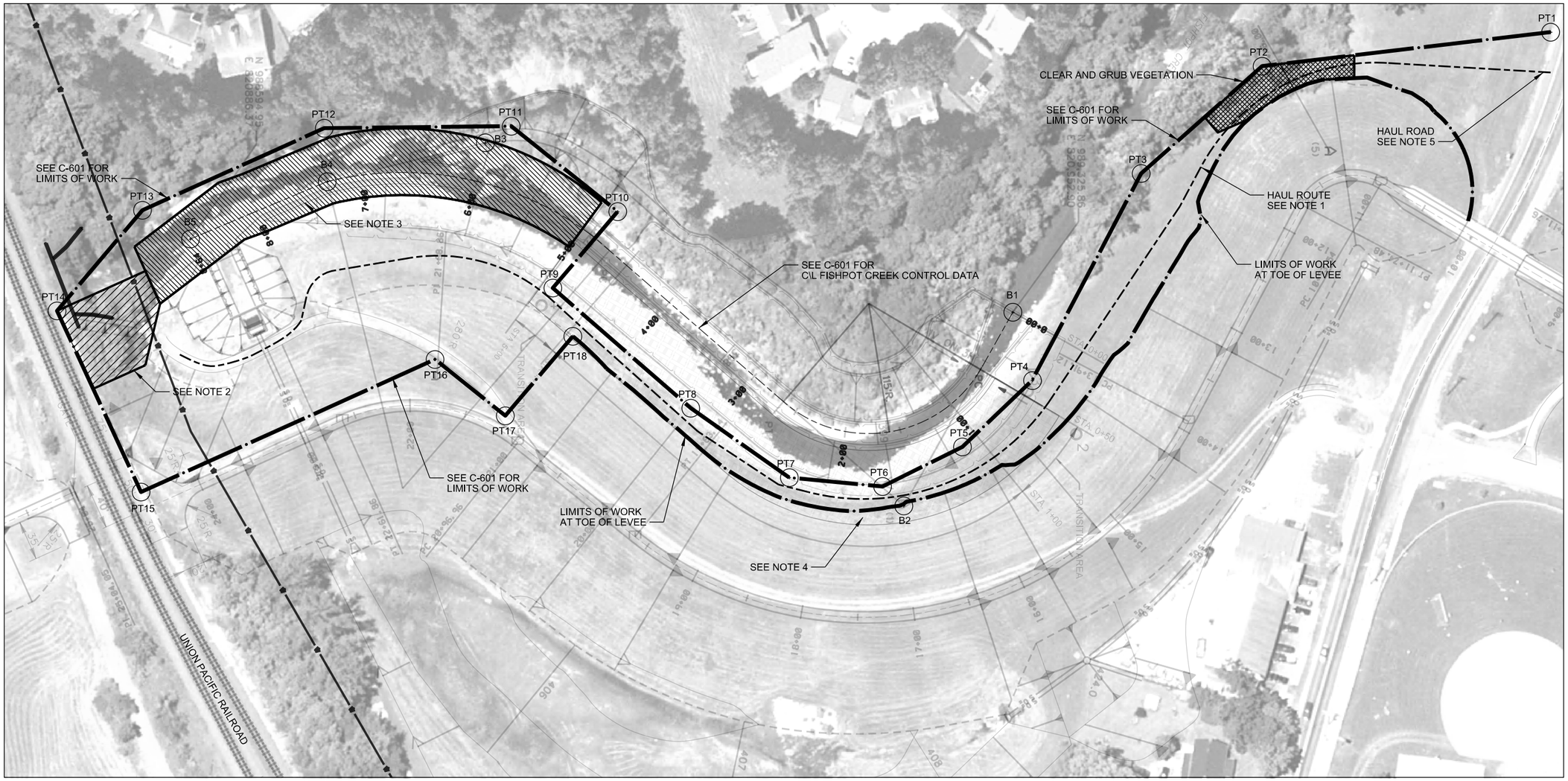
DESIGNED BY: D. RIELLY
DWN BY: K. HANNAH
CKD BY:
SUBMITTED BY: G. LEE
SIZE: ANSI D
FILE NAME:
PLOT SCALE: 1:1
PLOT DATE:
DATE:
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
WOOD RIVER DRAINAGE AND LEVEE DISTRICT
GRASSY LAKE GRAVITY DRAIN REPAIRS
MADISON COUNTY, ILLINOIS

INDEX SHEET, SYMBOLS, ABBREVIATIONS & GENERAL LEGEND

SHEET IDENTIFICATION
G-003



PLAN VIEW

0 50' 100'

SCALE:1"=50'

NOTES:

1. AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR SHALL RETURN DIRT HAUL ROUTE TO ITS PREXISTING CONDITION.
2. ALL VEGETATION SHALL BE CLEARED IN DESIGNATED AREA. ALL VEGETATION SHALL BE CLEARED AND GRUBBED WITHIN EXCAVATION LIMITS.
3. ROCK DEBRIS SHALL BE REMOVED AND DISPOSED TO EXPOSE THE BEDROCK OF CHANNEL.
4. DO NOT DISTURB CONCRETE MATTRESS. CONTRACTOR IS ALLOWED TO DRIVE ON CONCRETE BACKFILL. SEE REFERENCE DRAWINGS FOR CLARIFICATION OF CONCRETE BACKFILL.
5. THE CONTRACTOR SHALL PROVIDE DRAINAGE UNDER HAUL ROAD AT THE INTERSECTION OF VANCE ROAD AND HAUL ROAD.

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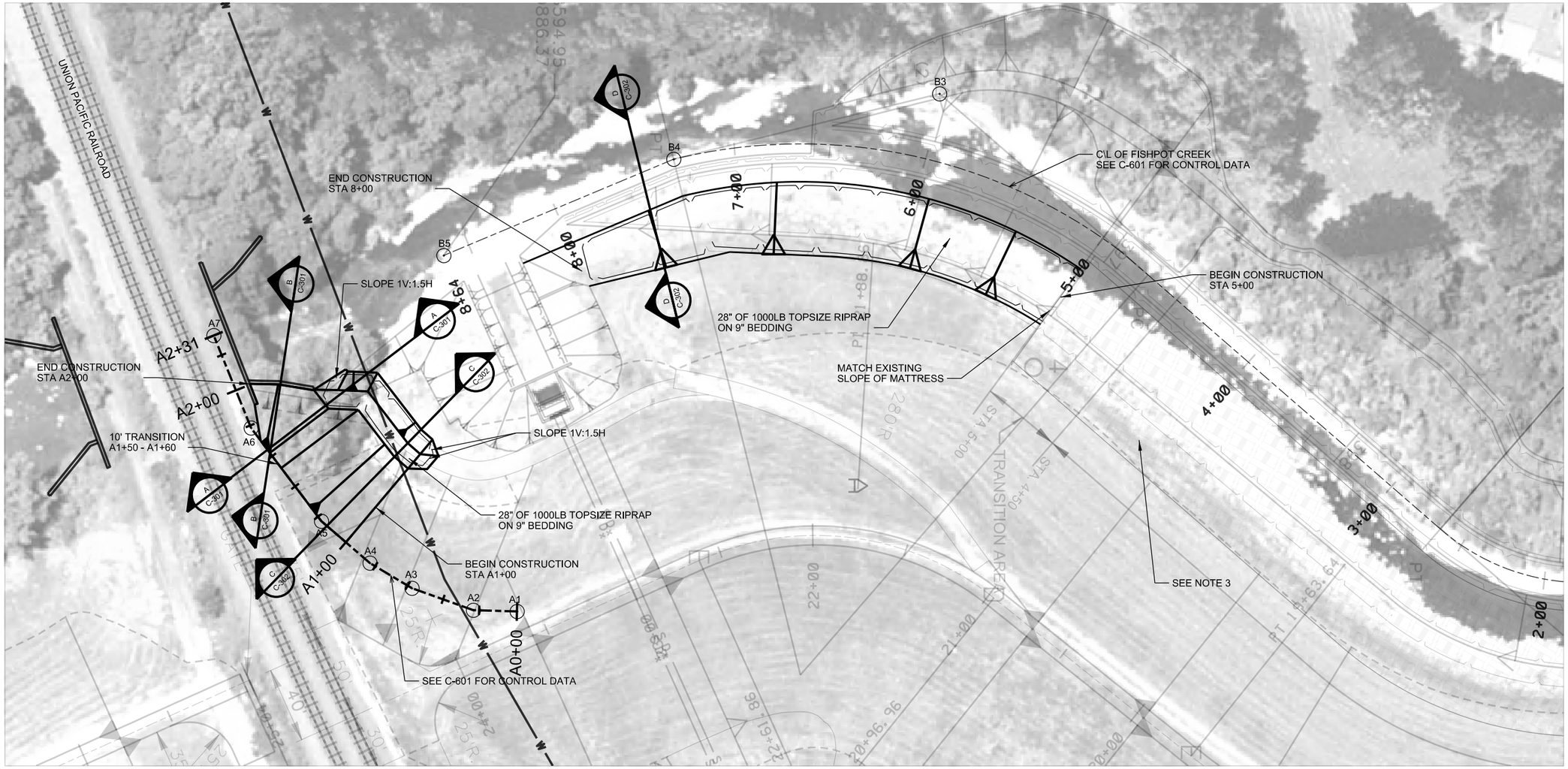
U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.MILLS
SUBMITTED BY: G. LEE
PLOT SCALE:
PLOT DATE: 9/28/2010
SIZE: ANSI D
FILE NAME:
DATE: SEPT 16, 2011
SOLICITATION NO.: W912P8-12-R-0703
CONTRACT NO.:
FILE NUMBER:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

DEMOLITION PLAN

SHEET IDENTIFICATION
CD101



PLAN VIEW

0 50' 100'

SCALE:1"=50'

N

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UTILITIES.
2. SEED ALL DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS.
3. CONCRETE MATTRESS. DO NOT DISTURB. CONTRACTOR IS ALLOWED TO DRIVE ON CONCRETE BACKFILL. SEE REFERENCE DRAWINGS FOR CLARIFICATION OF CONCRETE BACKFILL.
4. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF WATERLINE IN THE FIELD. APPROXIMATE LOCATION IS SHOWN. DO NOT DISTURB WATERLINE.

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SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

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CKD BY: J.MILLS
SUBMITTED BY: G. LEE
PLOT SCALE:
PLOT DATE: 09/07/2010
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DATE: SEPT 16, 2011
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CONTRACT NO.:
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SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

EARTHWORK AND STONE PROTECTION
PLAN

SHEET IDENTIFICATION
CS101

DISPOSAL SITE

N

0 100' 200'

SCALE:1"=100'

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH VALLEY PARK LEVEE DISTRICT TO DETERMINE EXACT LIMITS OF STOCKPILE AREA

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SAINT LOUIS, MISSOURI

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PLOT SCALE:
PLOT DATE: 04/02/2010
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FILE NAME:
DATE: SEPT 16, 2011
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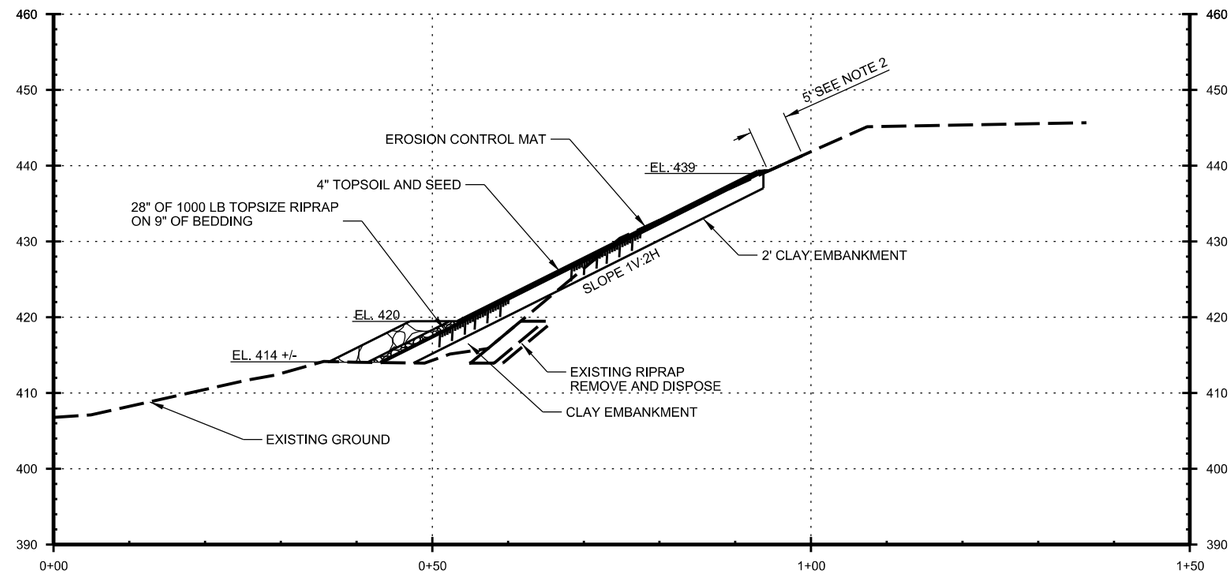
CONTRACT NO.:
FILE NUMBER:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

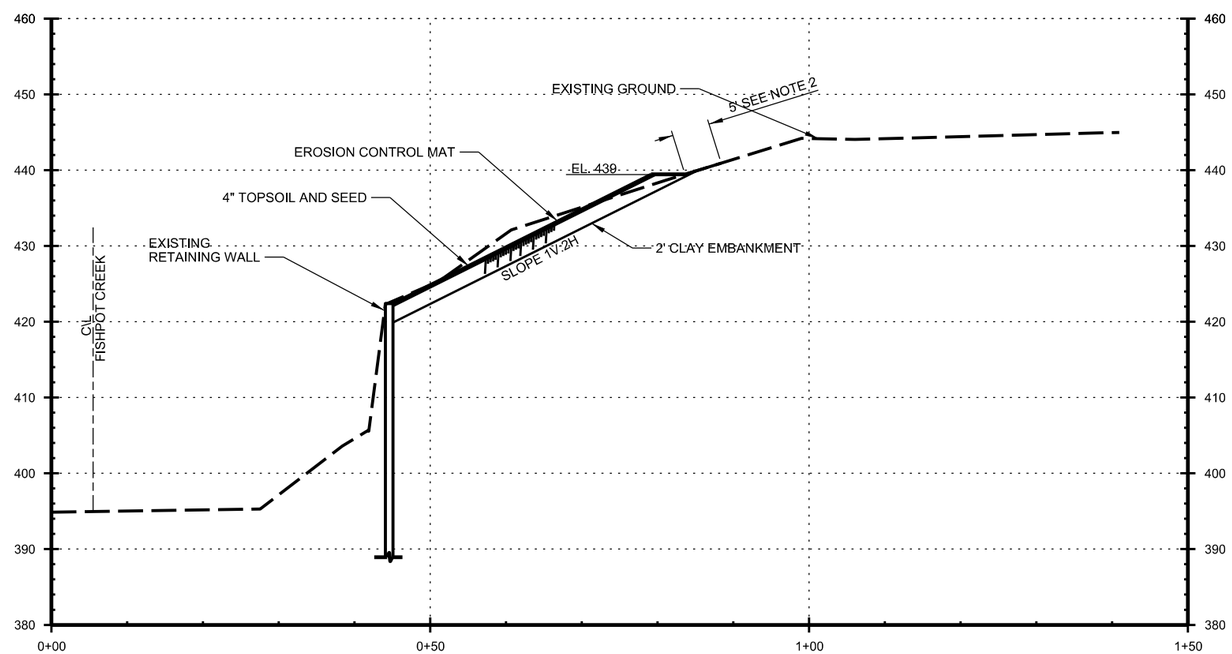
DISPOSAL AREA PLAN

SHEET IDENTIFICATION
CS102



A / CS101 TYPICAL SECTION

A1+50 TO A1+70



B / CS101 TYPICAL SECTION

A1+70 TO A2+00

NOTES:

1. SEE REFERENCE DRAWINGS FOR EXISTING RIPRAP THICKNESS.
2. EXTEND EROSION CONTROL MAT 5' PAST CLAY EMBANKMENT.

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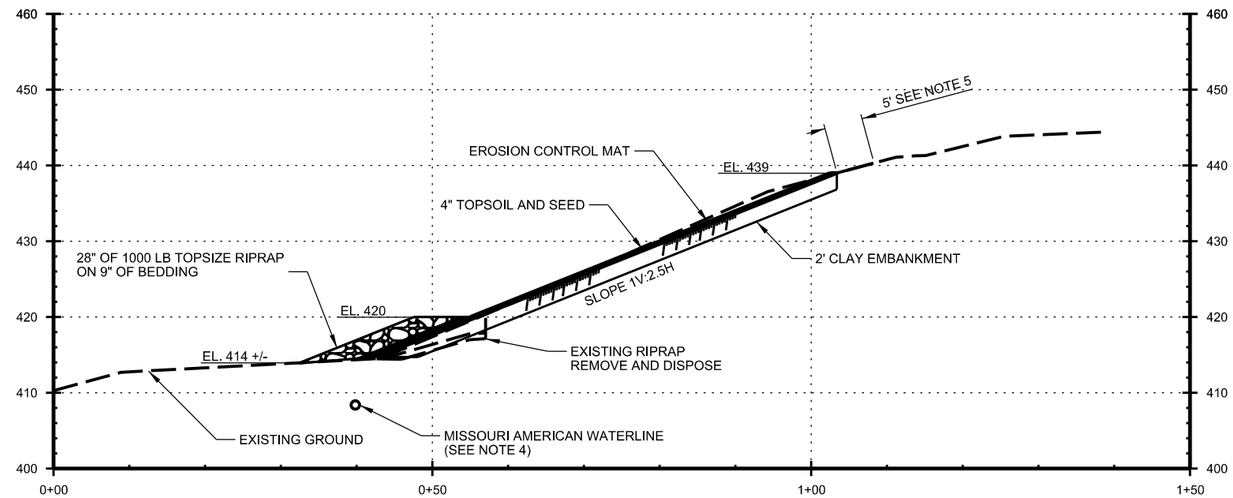
U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.MILLS
SUBMITTED BY: G. LEE
DATE: SEPT 16, 2011
SOLICITATION NO.: WP-12PS-12-R-0703
CONTRACT NO.:
PLOT SCALE:
PLOT DATE: 9/20/2010
FILE NUMBER:
SIZE: ANSI D
FILE NAME:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK, MISSOURI

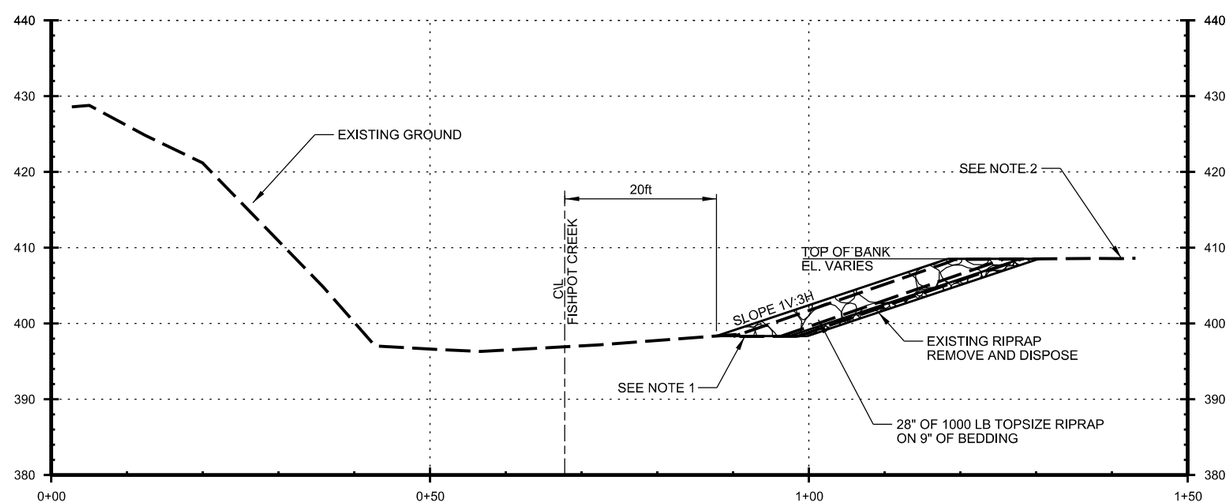
TYPICAL SECTIONS

SHEET IDENTIFICATION
C-301



C / CS101 TYPICAL SECTION

A1+00 TO A1+50



D / CS101 TYPICAL SECTION

5+00 TO 8+00

NOTES:

1. RIPRAP SHALL BE PLACED ON BEDROCK. ELEVATION OF BEDROCK VARIES
2. GRADE TO DRAIN TOWARDS CREEK.
3. SEE REFERENCE DRAWINGS FOR EXISTING RIPRAP THICKNESS.
4. VERIFY LOCATION AND DEPTH OF WATERLINE IN THE FIELD. APPROXIMATE DEPTH AND LOCATION SHOWN. DO NOT DISTURB WATERLINE.
5. EXTEND EROSION CONTROL MAT 5' PAST CLAY EMBANKMENT.

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SOLICITATION NO.: WP-12PS-12-R-0703
SUBMITTED BY: G. LEE
CONTRACT NO.:
PLOT SCALE: AS SHOWN
PLOT DATE: 9/20/2013
FILE NUMBER:
SIZE: ANSI D
FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK, MISSOURI

TYPICAL SECTION

SHEET IDENTIFICATION
C-302

CONTROL LINE DATA - CONSTRUCTION LIMITS				
POINT	BEARING	DISTANCE	NORTHING	EASTING
ID		(FEET)	(Y)	(X)
PT1	S 6°43'54" E	257.47 '	989800.55	820703.07
PT2	S 41°33'48" E	143.31 '	989544.85	820733.25
PT3	S 62°12'43" E	207.30 '	989437.63	820828.32
PT4	S 43°38'27" E	85.39 '	989340.98	821011.72
PT5	S 26°21'46" E	79.01 '	989279.19	821070.65
PT6	S 5°24'56" W	82.99 '	989208.4	821105.73
PT7	S 35°09'03" W	106.86 '	989125.78	821097.9
PT8	S 41°03'55" W	162.18 '	989038.41	821036.38
PT9	N 49°40'13" W	88.86 '	988916.13	820929.84
PT10	S 38°43'08" W	121.00 '	988973.64	820862.1
PT11	S 0°37'34" E	165.74 '	988879.23	820786.41
PT12	S 24°17'09" E	176.77 '	988713.5	820788.22
PT13	S 49°40'13" E	116.98 '	988552.37	820860.92
PT14	N 65°07'03" E	177.01 '	988476.67	820950.1
PT15	N 24°17'09" W	285.85 '	988551.14	821110.68
PT16	N 38°43'08" E	79.89 '	988811.69	820993.11
PT17	N 49°40'13" W	92.43 '	988874.03	821043.08
PT18			988933.84	820972.62

CONTROL LINE DATA - CLAY EMBANKMENT							
POINT	BEARING	DISTANCE	NORTHING	EASTING			
ID		(FEET)	(Y)	(X)	PC	PI	PT
A1	S 1°38'02" W	23.08 '	988633.57	821074		0+00.00	
A2	S 19°44'17" W	34.35 '	988610.51	821073.35		0+23.08	
A3	S 30°53'21" W	25.80 '	988578.17	821061.75		0+57.43	
A4	S 40°44'18" W	33.80 '	988556.03	821048.5		0+83.23	
A5	S 52°57'49" W	61.58 '	988530.42	821026.44		1+17.03	
A6	S 68°01'40" W	52.58 '	988493.33	820977.29		1+78.61	
A7			988473.65	820928.52		2+31.19	

CONTROL LINE DATA - FISHPOT CREEK CHANNEL											
POINT	BEARING	DISTANCE	NORTHING	EASTING							
ID		(FEET)	(Y)	(X)	PC	PI	PT	DELTA	R	L	T
B1	S 60°37'02" E	56.11 '	989323.88	820951.26		0+00.00					
B2	S 40°57'15" W	345.97 '	989227.2	821122.95	0+56.11		2+59.98	101°34'17"	115.00 '	203.87 '	140.93 '
B3	S 13°49'33" E	145.53 '	988856.35	820801.1	4+65.01		7+32.72	54°46'48"	-280.00 '	267.71 '	145.08 '
B4	S 22°48'20" E	130.27 '	988715.04	820835.88		7+33.17					
B5			988594.95	820886.37		8+63.44					

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SAINT LOUIS, MISSOURI

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SUBMITTED BY: G. LEE
DATE: SEPT 16, 2011
SOLICITATION NO.: W912P8-12-R-0703
CONTRACT NO.:
PLOT SCALE:
PLOT DATE: 9/16/2011
FILE NUMBER:
SIZE: ANSI D
FILE NAME:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

ALIGNMENTS AND LIMITS OF WORK
TABLES

SHEET IDENTIFICATION
C-601

MERAMEC RIVER BASIN

VALLEY PARK, MISSOURI

FLOOD PROTECTION PROJECT

FISHPOT CREEK BANK PROTECTION

SOLICITATION NO. W912P9-10-B-0207

REFERENCE

US Army Corps
of Engineers
St. Louis District ®

GATEWAY TO EXCELLENCE

FEBRUARY 2010

INDEX OF DRAWINGS

DRAWING NO.	TITLE
	GENERAL DRAWINGS
ME-VP-14/G-1	INDEX OF DRAWINGS
ME-VP-14/G-2	PROJECT LOCATION
	CIVIL DRAWINGS
ME-VP-14/C-1	OVERALL PLAN - FISHPOT CREEK BANK PROTECTION
ME-VP-14/C-2	TYPICAL SECTIONS
ME-VP-14/C-3	CONSTRUCTION LIMITS
	HYDRAULIC DRAWINGS
ME-VP-14/H-1	VALLEY PARK STAGE HYDROGRAPHS 1980 TO 1994
ME-VP-14/H-2	VALLEY PARK STAGE HYDROGRAPHS 1995 TO 2009
	REFERENCE DRAWINGS
ME-VP-2/C-2	LEVEE PLAN STA. 9+80 STA. 20+00
ME-VP-2/C-3	LEVEE PLAN STA. 20+00 TO UNION PACIFIC R.R.
ME-VP-2/C-5	LEVEE SECTIONS AND PLAN - GRAVITY DRAIN
ME-VP-2/F-1	BORING LOGS
ME-VP-2/F-2	SOIL AND ROCK LEGEND

GENERAL NOTES:

1. HORIZONTAL DATUM - MISSOURI STATE PLANE EAST (ZONE 2401) NAD 83

   VERTICAL DATUM - NATIONAL GEODETIC VERTICAL DATUM OF 1929

   BOTH HORIZONTAL AND VERTICAL DATUM DETERMINED FROM EXISTING SURVEY CONTROL MONUMENTS SUPPLIED BY THE ST. LOUIS DISTRICT CORPS OF ENGINEERS.

REFERENCE

US Army Corps of Engineers
ST. LOUIS DISTRICT

Symbol	Description	Date	Appr.
	Revisions		

Date: FEBRUARY 2010
SUBMITTED: GARY E. LEE, P.E. Chief, Civil Specs. Section
File name:
Plot date: 23-FEB-2010 08:58
Plot scale:
Plot by:
SCALE NO. W013Pts1a5a2037
N:\PEAL_Dp_2008\Mo_Pro\MP-Fishpot Creek Bank Protection\PR-ME-P14G01.dgn

Designed by: J.R. HELFRICH
Drawn by: J.R. HELFRICH
Checked by: J.L.C.
Reviewed by: G. L.L.
APPROVED: THOMAS J. QUIGLEY, P.E. Chief, Design Branch

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

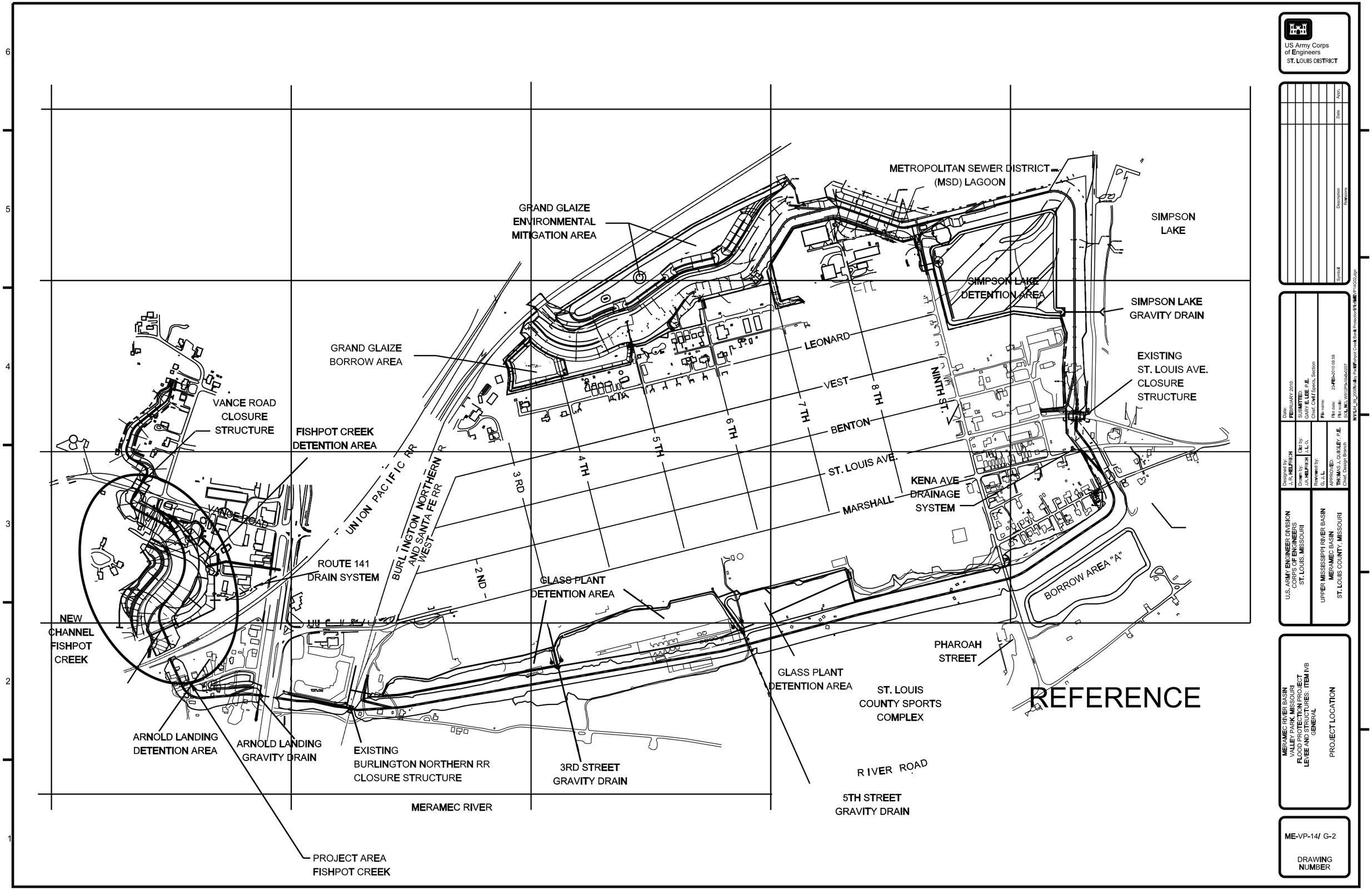
UPPER MISSISSIPPI RIVER BASIN
MERAMEC BASIN
ST. LOUIS COUNTY, MISSOURI

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM IVB
GENERAL

INDEX OF DRAWINGS

ME-VP-14/ G-1

DRAWING NUMBER



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ST. LOUIS DISTRICT

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Date: FEBRUARY 2010
SUBMITTED: GARY E. LEE, P.E. Chief, Civil Specs. Section
File name:
File date: 23-FEB-2010 08:58
Plot scale:
Sol. No.: W912PK15-A-0027
Designed by: J.R. HELFRICH
Drawn by: J.R. HELFRICH
Det by: J.A. O.
Reviewed by: G. L. L.
APPROVED: THOMAS L. CURLEY, P.E. Chief, Design Branch

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

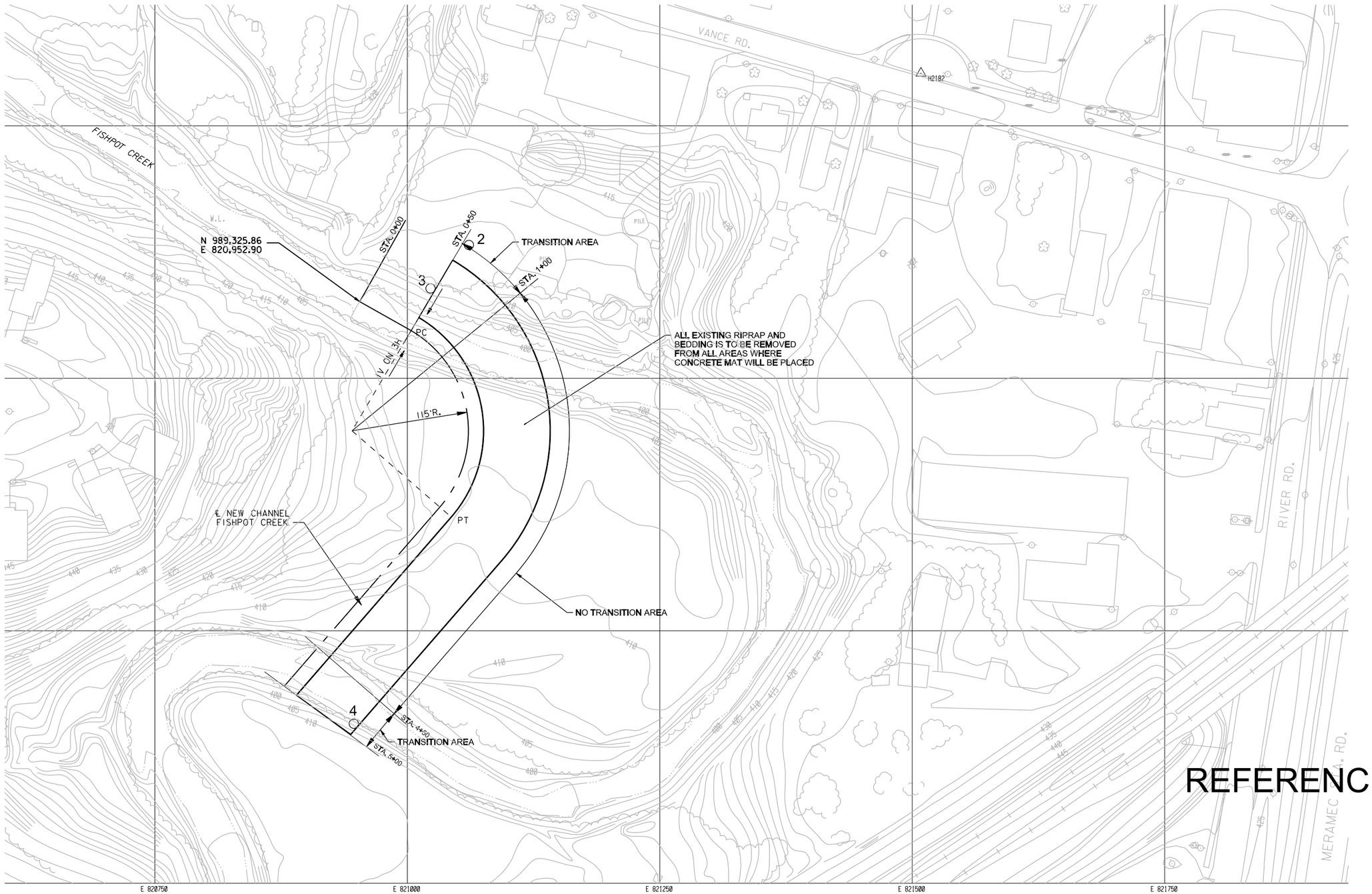
UPPER MISSISSIPPI RIVER BASIN
MERAMEC BASIN
ST. LOUIS COUNTY, MISSOURI

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM IVB
GENERAL

PROJECT LOCATION

ME-VP-14/ G-2

DRAWING NUMBER



OVERALL PLAN - FISHPOT CREEK EROSION PROTECTION

SCALE: 1" = 50'

50' 0 50'

NOTE:
1. FOR CONSTRUCTION LIMITS SEE DWG. C-3
2. FOR TYPICAL SECTIONS SEE DWG. C-1

US Army Corps of Engineers
ST. LOUIS DISTRICT

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	Revisions		

Date: FEBRUARY 2010
SUBMITTED: GARY E. LEE, P.E. Chief, Civil Specs. Section
File name:
File date: 23-FEB-2010 08:59
Plot date:
Plot scale:
SOL. NO.: W912PH-15-B-0037

Designed by: J. A. MILLS
Drawn by: J.R. HELFRICH
Checked by: L. L. O.
Reviewed by: G. L. L.
APPROVED: THOMAS J. CLUKLEY, P.E. Chief, Design Branch

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

UPPER MISSISSIPPI RIVER BASIN MERAMEC BASIN ST. LOUIS COUNTY, MISSOURI

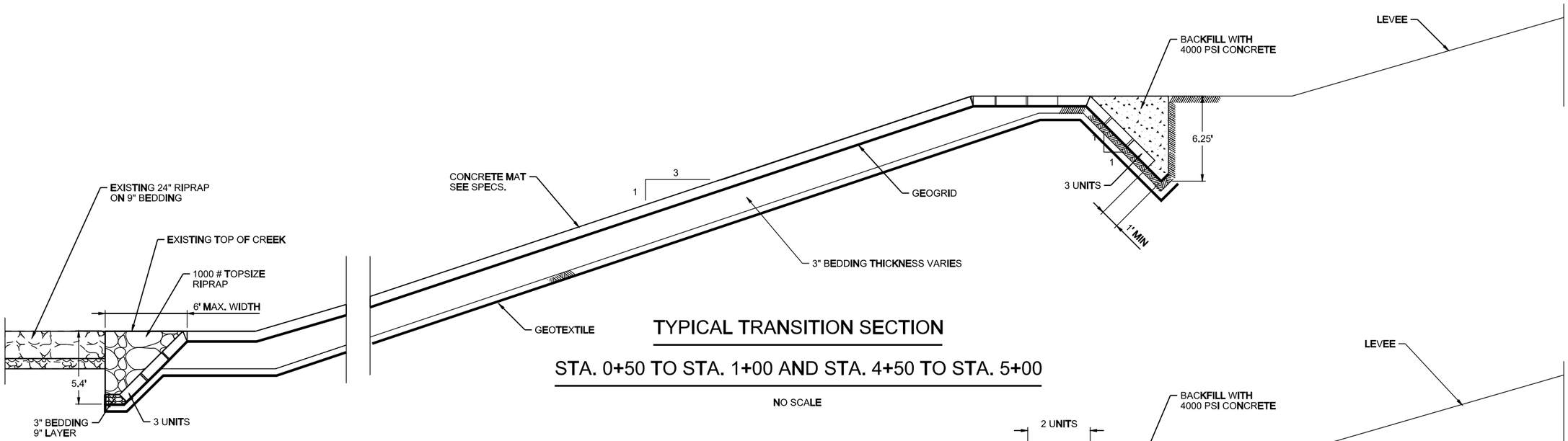
MERAMEC RIVER BASIN VALLEY PARK, MISSOURI FLOOD PROTECTION PROJECT LEVEE AND STRUCTURES: ITEM IVB CIVIL

OVERALL PLAN FISHPOT CREEK BANK PROTECTION

ME-VP-14/ C-1

DRAWING NUMBER

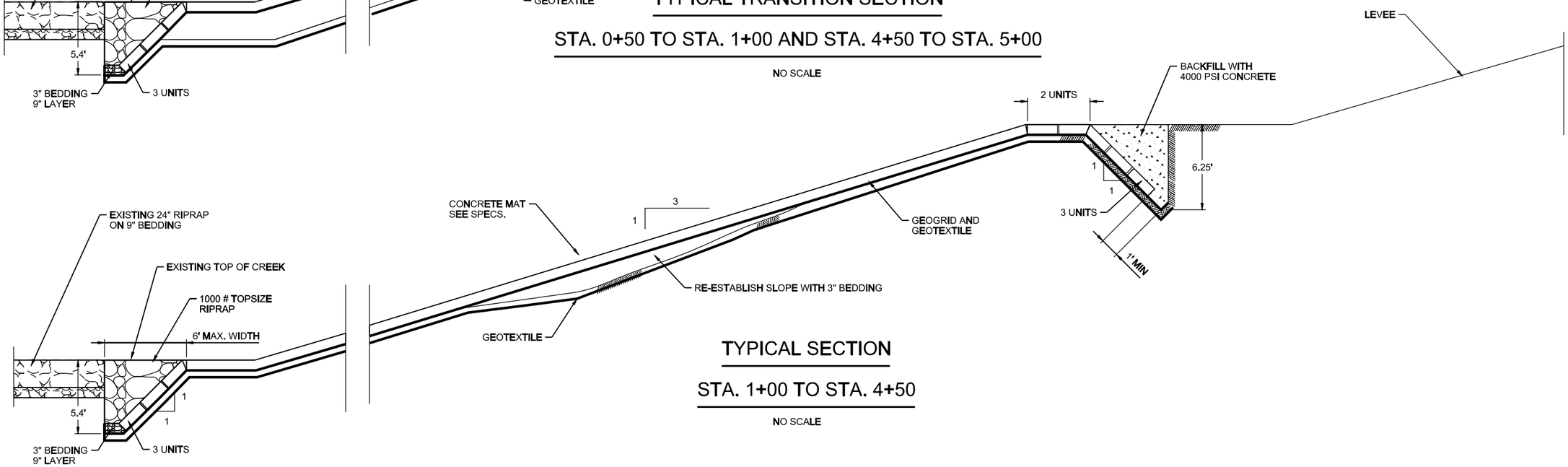
N:\PLA_Dp_20091\dlly Pr\MP-Fpnd Crk Bank Protection\PR-ME\P14C1.dgn



TYPICAL TRANSITION SECTION

STA. 0+50 TO STA. 1+00 AND STA. 4+50 TO STA. 5+00

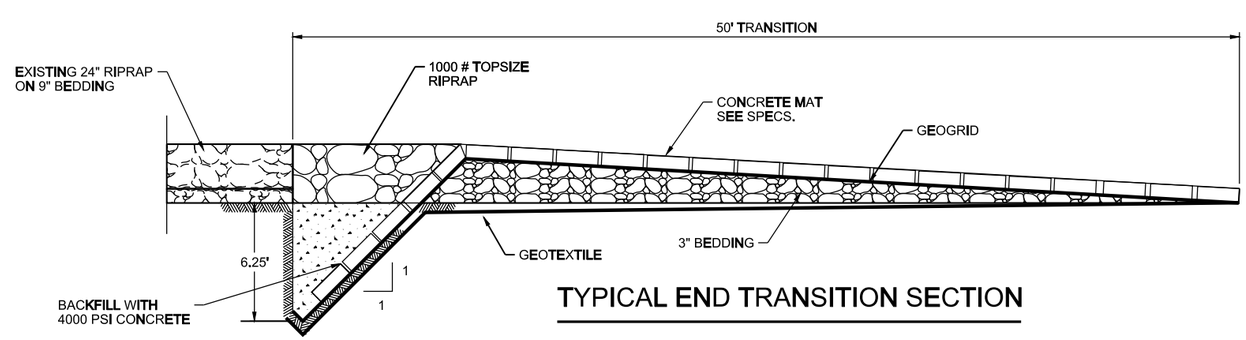
NO SCALE



TYPICAL SECTION

STA. 1+00 TO STA. 4+50

NO SCALE



TYPICAL END TRANSITION SECTION

STA. 0+50 TO STA. 1+00 AND STA. 4+50 TO STA. 5+00

NO SCALE

REFERENCE

NOTE:
IF BEDDING IS REQUIRED, THEN GEOGRID SHALL BE INSTALLED BETWEEN MATTRESS AND BEDDING, AND GEOTEXTILE SHALL BE INSTALLED BETWEEN BEDDING AND SUBGRADE.

US Army Corps of Engineers
ST. LOUIS DISTRICT

Symbol	Description	Date	Appr.
	Revisions		

Date: FEBRUARY 2010
SUBMITTED: GARY E. LEE, P.E. Chief, Civil Specs. Section
File name:
File date: 23-FEB-2010 08:59
Plot scale:
Plot date: 1=1
Designed by: C. L. MOORE
Drawn by: J.G. HELFRICH
Checked by: L. L. O.
Reviewed by: G. L. L.
APPROVED: THOMAS J. GUIKLEY, P.E. Chief, Design Branch

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

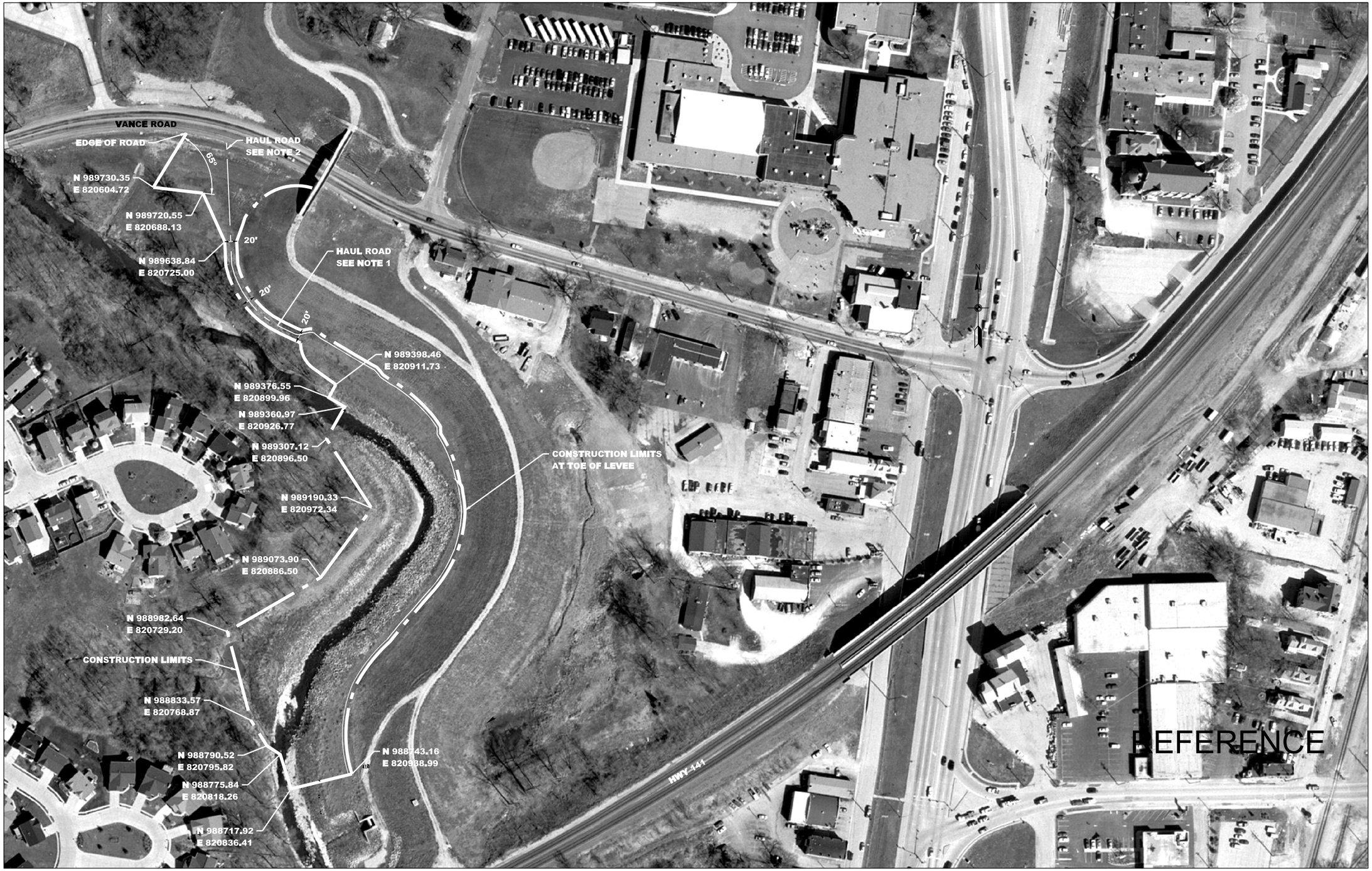
UPPER MISSISSIPPI RIVER BASIN
MERAMEC BASIN
ST. LOUIS COUNTY, MISSOURI

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM IVB
CIVIL

TYPICAL SECTIONS

ME-VP-14/ C-2

DRAWING NUMBER



CONSTRUCTION LIMITS

SCALE: 1" = 80'

80' 0 80'

NOTE:

1. THE HAUL ROAD CONSIST OF MODOT TYPE II AGGREGATE BASE COURSE IN A 6 INCH LAYER 12 FOOT WIDE PLACED ON NON-WOVEN GEOTEXTILE, (SEE SECTION 02382 PARAGRAPH 2.2).
2. THE CONTRACTOR SHALL PROVIDE DRAINAGE UNDER HAUL ROAD AT THE INTERSECTION OF VANCE ROAD AND THE HAUL ROAD.
3. THE CONTRACTOR SHALL REMOVE THE HAUL ROAD AFTER CONSTRUCTION.

US Army Corps of Engineers
ST. LOUIS DISTRICT

Symbol	Description	Date	Appr.
	Revisions		

Date: FEBRUARY 2010
SUBMITTED: GARY E. LEE, P.E.
Chief, Civil Specs. Section

Designed by: J. A. MILLS
Drawn by: JA HELFRICH
Checked by: J. L. O.
Reviewed by: G. L. LEE
APPROVED: THOMAS J. CURLEY, P.E.
Chief, Design Branch

File name:
File date: 23-FEB-2010 08:59
Plot scale: 1:1
Sol. No.: W912PH15-A-0037

NVSA_Dp_20091 dgn / P:\MF-Bond Creek Bank Protection\PH-MED\PH1620.dgn

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

UPPER MISSISSIPPI RIVER BASIN
MERAMEC BASIN
ST. LOUIS COUNTY, MISSOURI

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM IVB
CIVIL

CONSTRUCTION LIMITS

ME-VP-14/ C-3

DRAWING NUMBER

LEGEND

— - - — - - CONSTRUCTION LIMIT

NOTES:

1. CONSTRUCT 3" (MIN.) DEEP SWALE AT MIDPOINT, 10' FROM TOE OF LEVEE. SLOPE EACH WAY AT 0.50% FOR DRAINAGE.
2. SAW CUT PAVEMENT ALONG CONSTRUCTION LIMIT LINE. REMOVE PAVEMENT AND REPLACE WITH EARTH EMBANKMENT FLUSH WITH REMAINING PAVEMENT.
3. MATCH CHANNEL WIDTH AND ELEV.

CONSTRUCTION LIMITS

P.I. NO	P.I. POINT COORDINATES NORTHING	EASTING
17L	989600.10	821043.10
18L	989564.96	821064.13
19L	989506.63	821166.52
20L	989480.50	821261.82
21L	989497.86	821308.87
22L	989436.96	821364.12
23L	989379.54	821347.93
24L	989254.37	821470.25
25L	989112.53	821472.59
26L	989089.86	821448.56
19R	989398.46	820911.73
20R	989376.55	820899.96
21R	989360.97	820926.77
22R	989307.12	820896.50
23R	989190.33	820972.34
24R	989073.90	820886.50
25R	988982.64	820729.20

L = LEFT OF CENTERLINE
R = RIGHT OF CENTERLINE

REFERNCE DRAWING

N

SCALE: 1" = 50'
50' 0 50'

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

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

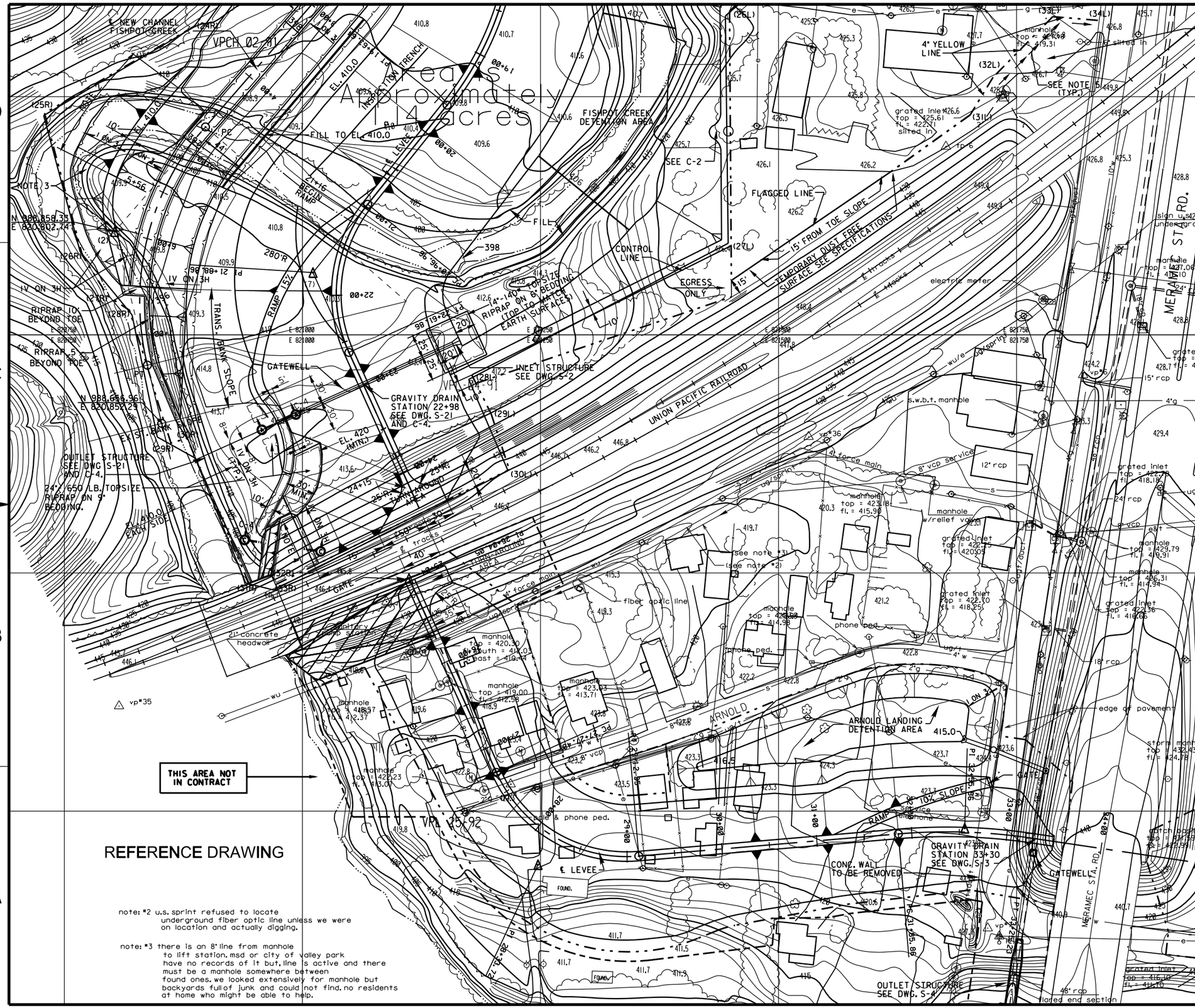
DESIGNED BY: R. L. JOHNSON
DRAWN BY: A.A. BIENKOWSKI
CHECKED BY: R. L. JOHNSON

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM 11
CIVIL
LEVEE PLAN
STA. 9+80 TO STA. 20+00

SUBMITTED: ROBERT L. JOHNSON, DESIGN ENGINEER
SUBMITTED: MICHAEL R. RECTOR, CHIEF, CIVIL ENG. / SPECS. SECTION
APPROVED: BOBBY R. HUGHEY, CHIEF, DESIGN BRANCH

SIZE	DWG. CODE	DRAWING NO.
D	DACW 43	ME-VP-2/ C-2

MVPMCP02 | PLOT DATE: 23-FEB-2010 09:00
PLOT SCALE: 50 | SOL. NO. DACW43-95-B-0220 | FILE NO. | SHEET X OF X



REFERENCE DRAWING

note: #2 u.s. sprint refused to locate underground fiber optic line unless we were on location and actually digging.

note: #3 there is an 8" line from manhole to lift station. msd or city of valley park have no records of it but, line is active and there must be a manhole somewhere between found ones. we looked extensively for manhole but backyards full of junk and could not find. no residents at home who might be able to help.

LEGEND

CONTRACTOR EGRESS SEE SPECIFICATIONS

CONSTRUCTION LIMIT

NOTES:

1. CENTERLINE OF PERMANENT CLAY PLUG 44' FROM LEFT EDGE OF REALIGNED FISHPOT CREEK. TOP EL. 410.0. SEE SPEC. SECTION 2F.
2. PERMANENT CLAY PLUG, 10' WIDE TOP AT EL. 407.25, 1V ON 3H SIDE SLOPES. COVER WITH 24" - 650LB. TOPSIZE RIPRAP ON 9" BEDDING MATERIAL.
3. 10' WIDE, ELEVATION VARIES. CONSTRUCT 9" LAYER OF BEDDING ON GROUNDLINE. REMAINDER OF DIKE TO BE CONSTRUCTED OF 650LB. TOPSIZE RIPRAP.
4. SLOPE VARIES FROM 1V ON 3H TO MATCH SLOPE OF EXISTING WINGWALL.
5. 4" WIDE YELLOW LINES WITH ARROWHEADS AS DIRECTED.

CONSTRUCTION LIMITS

P.I. NO	P.I. POINT COORDINATES NORTHING	EASTING
26L	989089.86	821448.56
27L	988843.52	821450.23
28L	988707.97	821177.85
29L	988667.12	821198.18
30L	988608.47	821217.27
31L	988980.86	821701.28
32L	989020.33	821725.29
33L	989083.99	821788.24
34L	989080.07	821835.37
24R	989073.90	820886.50
25R	988982.64	820729.20
26R	988833.57	820768.87
27R	988790.52	820795.82
28R	988775.84	820818.26
29R	988636.28	820862.00
30R	988634.12	820881.98
31R	988489.31	820943.82
32R	988498.11	820967.78
33R	988487.99	820972.25

L = LEFT OF CENTERLINE
R = RIGHT OF CENTERLINE

LEVEE ℄ - FISHPOT CREEK		
P.I. NO.	1	2
RADIUS	115.00	280.00
Δ	101°34'19"R	54°46'43"L
TANGENT	140.93	145.07
C. LENGTH	203.87	267.70
P.I. STA.	1+97.05	6+10.09
P.C. STA.	0+56.11	4+65.02
P.T. STA.	2+59.98	7+32.72
NORTHING	989229.18	988858.33
EASTING	821124.60	820802.74

N

SCALE: 1" = 50'
50' 0 50'

SYMBOL	DESCRIPTION	DATE	APPROVED
1	CHANGED TO AGREE WITH AMEND. 0003	7-95	R.L.J.

REVISIONS

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

DESIGNED BY: R. L. JOHNSON
DRAWN BY: A.A. BIENKOWSKI
CHECKED BY: R. L. JOHNSON
DATE: FEBRUARY 1995

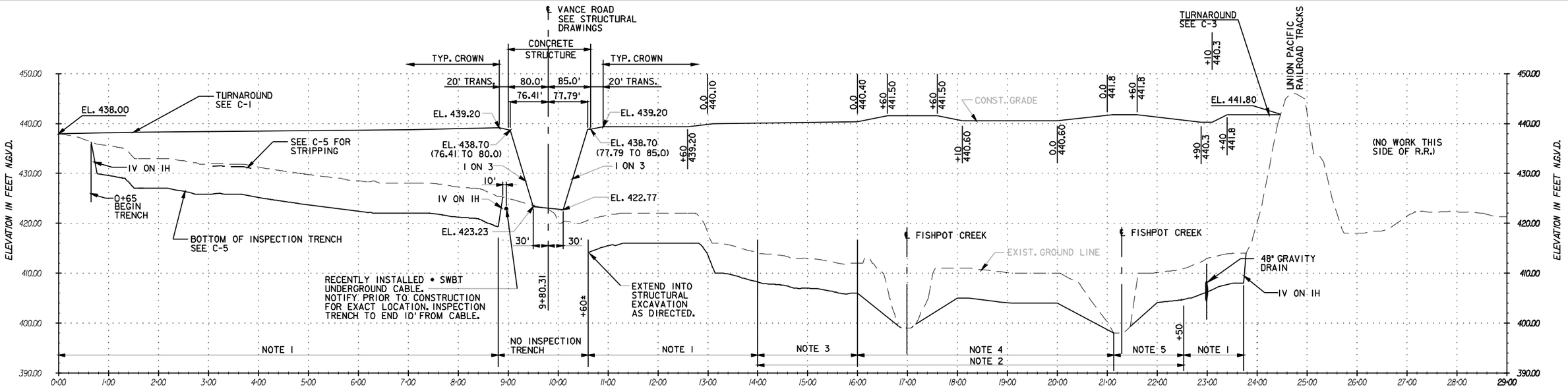
SUBMITTED: ROBERT L. JOHNSON, DESIGN ENGINEER
SUBMITTED: MICHAEL R. RECTOR, CHIEF, CIVIL ENG. / SPECS. SECTION
APPROVED: BOBBY R. HUGHEY, CHIEF, DESIGN BRANCH

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM II
CIVIL

LEVEE PLAN
STA. 20+00 TO UNION PACIFIC R.R.

SIZE: D | DWG. CODE: DACW 43 | DRAWING NO. ME-VP-2/ C-3

DESIGN FILE: MVPMCP03 | PLOT DATE: 23-FEB-2010 09:00
PLOT SCALE: 50 | SOL. NO. DACW43-95-B-0220 | FILE NO. | SHEET X OF X



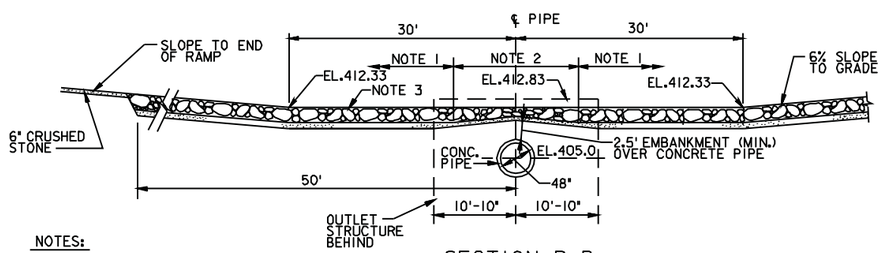
• SWBT - SOUTH WESTERN BELL TELEPHONE

LEVEE PROFILE

SCALE: HORIZ.: 1" = 100'
VERT.: 1" = 10'

NOTES: INSPECTION TRENCH LOCATION

1. INSPECTION TRENCH ON LEVEE ℄.
2. SEE DRAWINGS C-2 AND C-3.
3. TRANSITION INSPECTION TRENCH TO 60' RIGHT.
4. INSPECTION TRENCH 60' RIGHT.
5. TRANSITION INSPECTION TRENCH 60' TO LEVEE ℄.



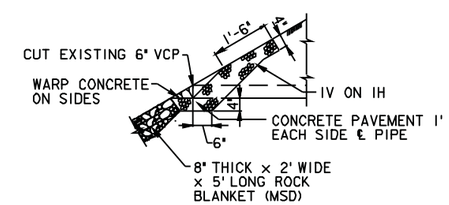
NOTES:

1. 24" - 650 LB. TOPSIZE RIPRAP ON 9" BEDDING.
2. 140 LB. TOPSIZE RIPRAP (THICKNESS VARIES) ON 6" BEDDING.
3. FILL VOIDS IN RIPRAP WITH BEDDING 10' WIDE FROM 6" CRUSHED STONE TO WING WALL.

SECTION B-B

(BELOW)

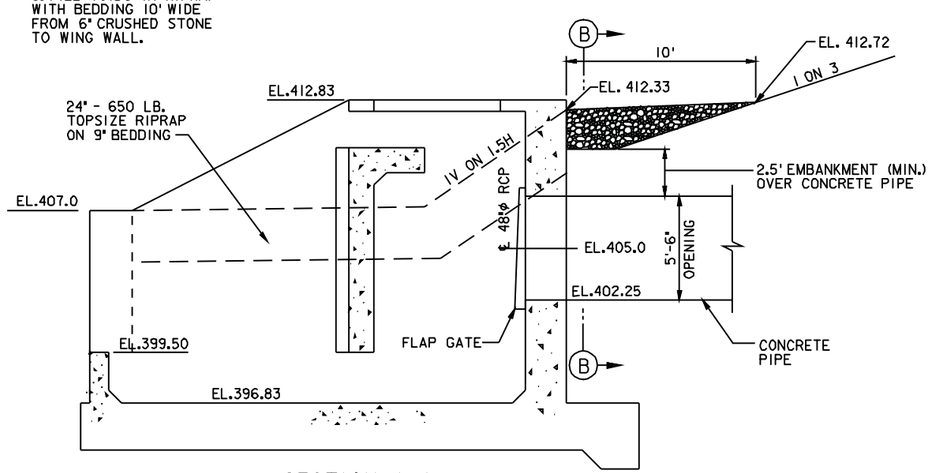
SCALE: 1" = 10'



SECTION A-A

C-2

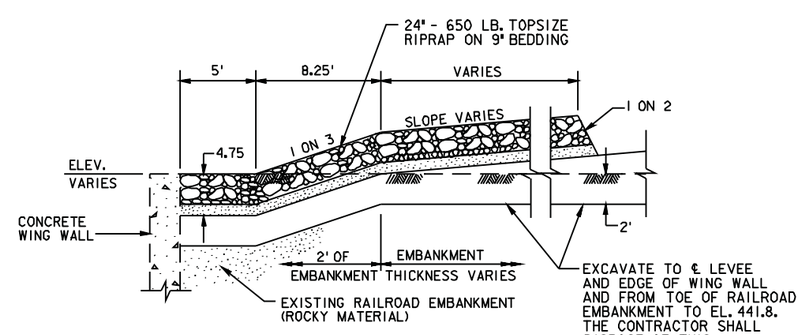
NO SCALE



SECTION A-A

C-3

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



SECTION C-C

C-3

SCALE: 1" = 5'

SYMBOL	DESCRIPTION	DATE	APPROVED
1	CHANGED TO AGREE WITH AMEND. 0002	7-95	R.L.J.

REVISIONS

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

DESIGNED BY: R. L. JOHNSON
DRAWN BY: A.A. BIENKOWSKI
CHECKED BY: R. L. JOHNSON
DATE: FEBRUARY 1995

SUBMITTED: ROBERT L. JOHNSON, DESIGN ENGINEER

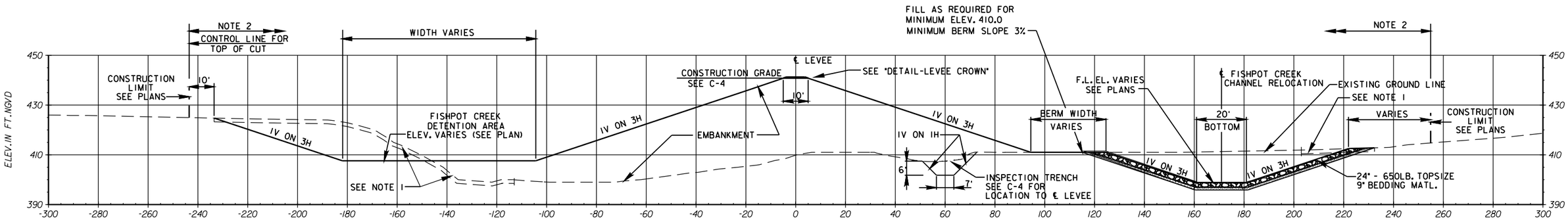
SUBMITTED: MICHAEL R. RECTOR, CHIEF, CIVIL ENG. / SPECS. SECTION

APPROVED: BOBBY R. HUGHEY, CHIEF, DESIGN BRANCH

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM II
CIVIL
LEVEE PROFILE
STA. 0+00 TO
UNION PACIFIC R.R.

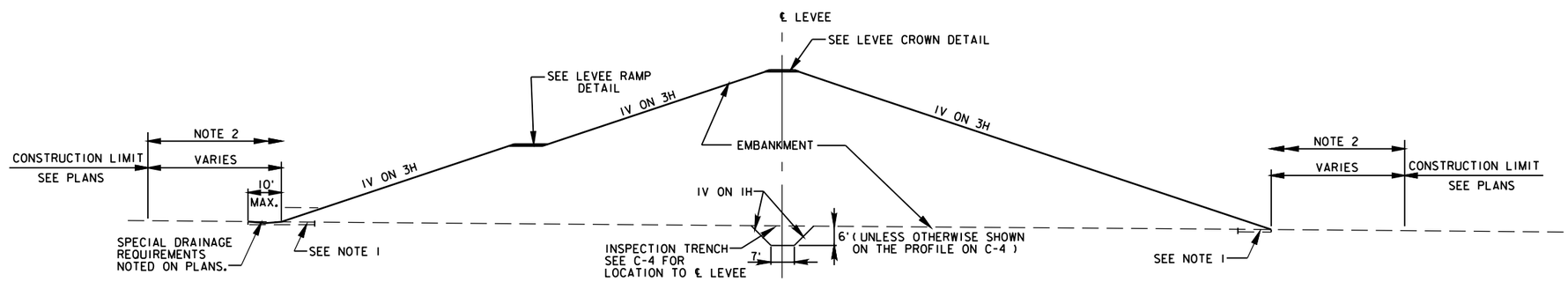
SIZE	DWG. CODE	DRAWING NO.
D	DACW 43	ME-VP-2/ C-4

DESIGN FILE: MVPMCPRI | PLOT DATE: 19-FEB-2008 08:20
PLOT SCALE: 50 | SOL. NO. DACW43-95-B-0220 | FILE NO. | SHEET X OF X



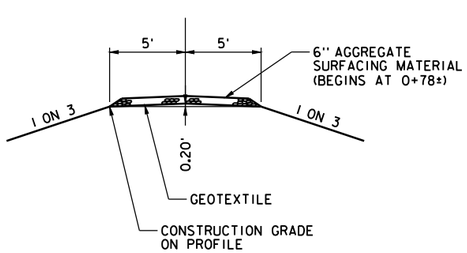
SECTION B-B (17+50.00)

SCALE: 1" = 20'



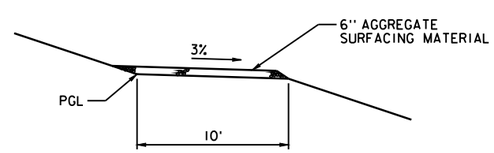
SECTION A-A (TYPICAL)

SCALE: 1" = 20'



LEVEE CROWN DETAIL

SCALE: 1" = 5'



LEVEE RAMP DETAIL

SCALE: 1" = 5'

NOTES:

1. STRIPPING REQUIRED FOR ALL EXCAVATION AND EMBANKMENT AREAS. SEE SPECIFICATIONS.
2. SEE SPECIFICATION SECTION 2L FOR ESTABLISHMENT OF TURF.

REFERENCE DRAWING

SYMBOL	DESCRIPTION	DATE	APPROVED

REVISIONS

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

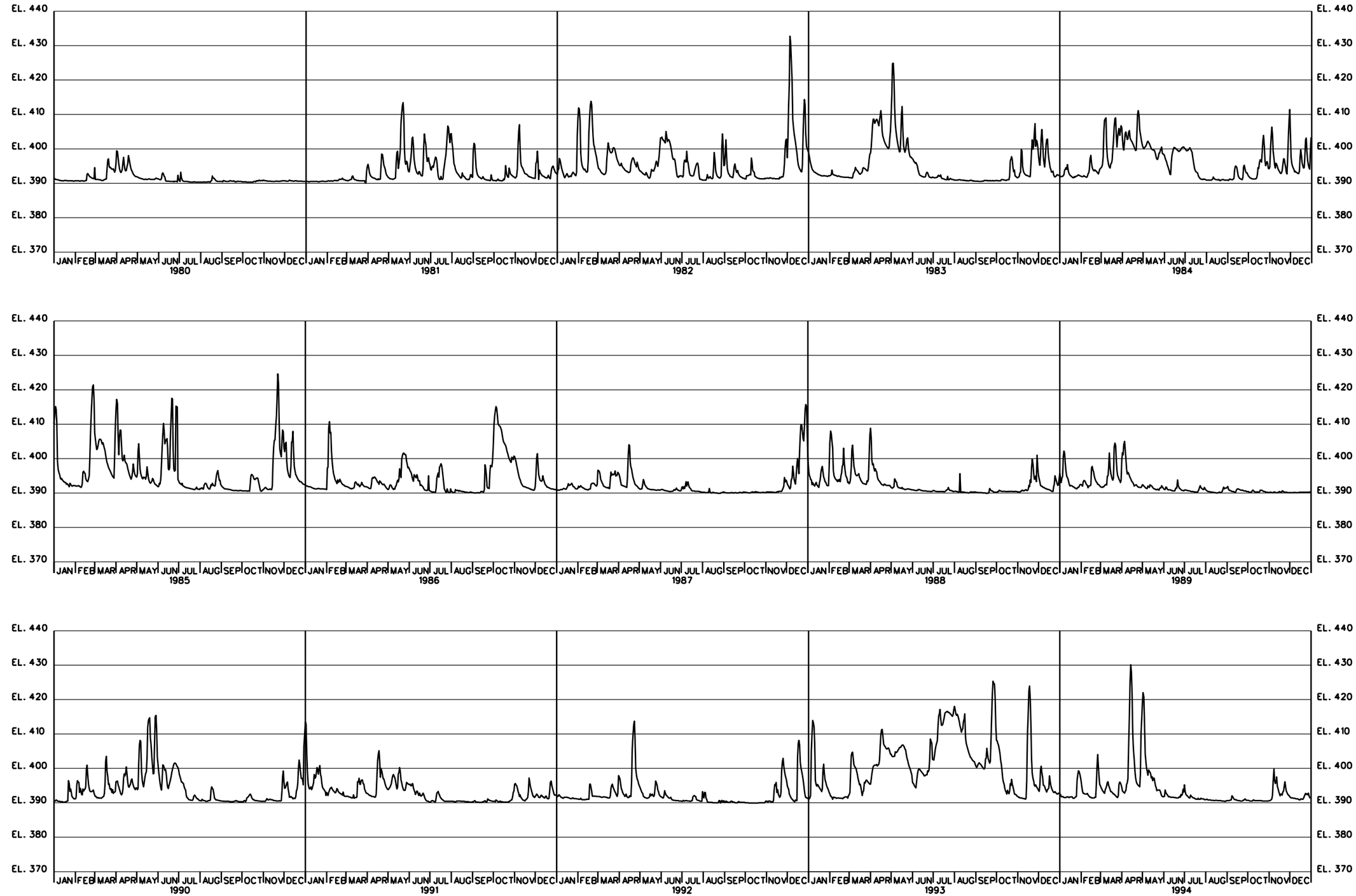
DESIGNED BY: R. L. JOHNSON
DRAWN BY: A. A. BIENKOWSKI
CHECKED BY: R. L. JOHNSON
DATE: FEBRUARY 1995

SUBMITTED: ROBERT L. JOHNSON, DESIGN ENGINEER
SUBMITTED: MICHAEL R. RECTOR, CHIEF, CIVIL ENG. / SPECS. SECTION
APPROVED: BOBBY R. HUGHEY, CHIEF, DESIGN BRANCH

MERAMEC RIVER BASIN
VALLEY PARK, MISSOURI
FLOOD PROTECTION PROJECT
LEVEE AND STRUCTURES: ITEM II
CIVIL
LEVEE SECTIONS AND PLAN - GRAVITY DRAIN

SIZE	DWG. CODE	DRAWING NO.
D	DACW 43	ME-VP-2/ C-5

DESIGN FILE: MVPMCSCI | PLOT DATE: 23-FEB-2010 09:00
PLOT SCALE: 20 | SOL. NO. DACW43-95-B-0220 | FILE NO. | SHEET X OF X



LEGEND:

PERIOD OF RECORD 1980 - 1994

US Army Corps of Engineers
Saint Louis District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

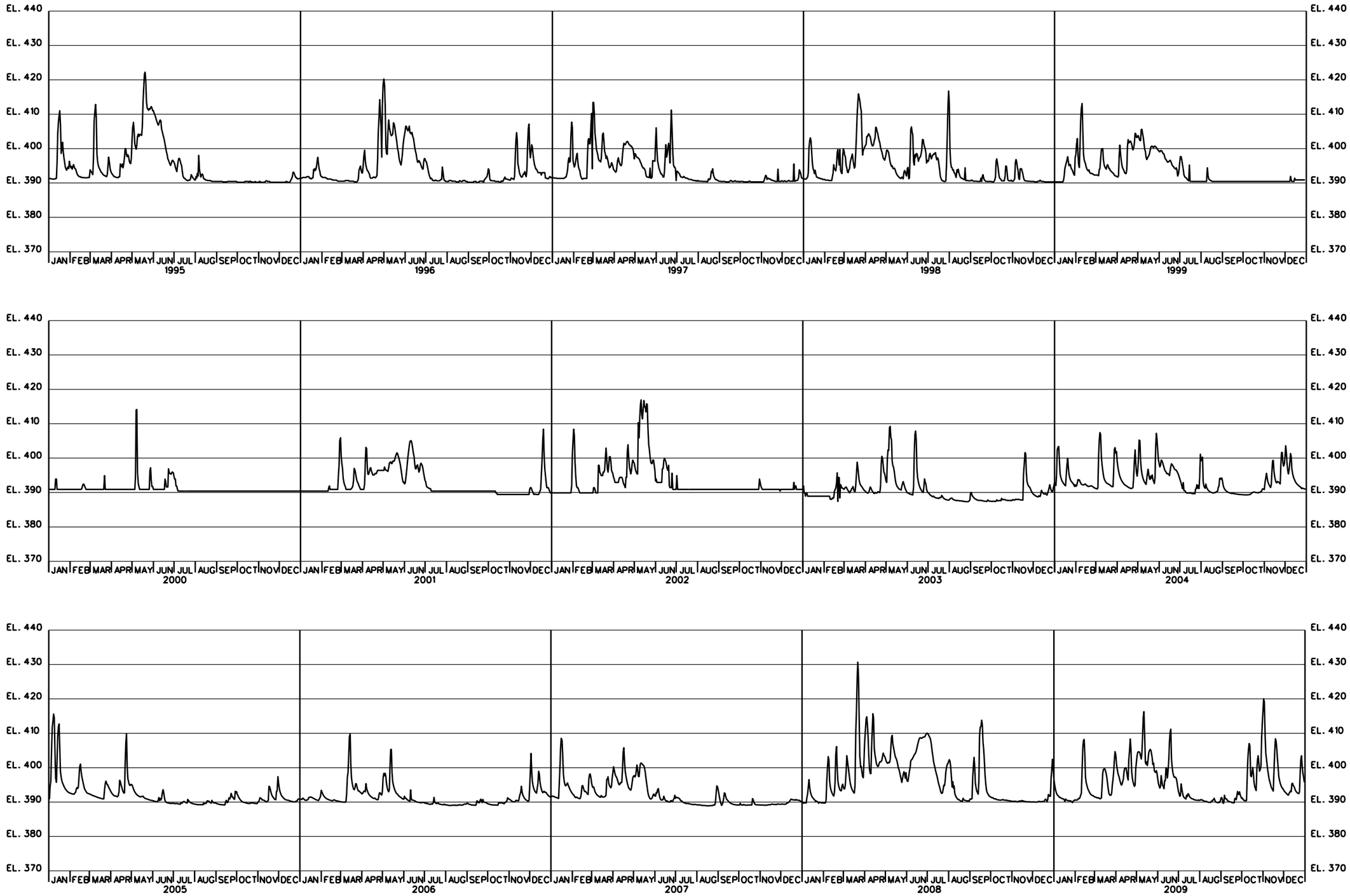
U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.MILLS
SUBMITTED BY: G. LEE
PLOT SCALE: AS NOTED
PLOT DATE: AS NOTED
SIZE: ANSI D
FILE NAME:
DATE: SEPT 16, 2011
SOLICITATION NO.: W912P9-12-R-0703
CONTRACT NO.:
FILE NUMBER:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK , MISSOURI

VALLEY PARK STAGE HYDROGRAPHS
1980 TO 1994

SHEET IDENTIFICATION
H-001



LEGEND:

——— PERIOD OF RECORD 1995 - 2009

US Army Corps of Engineers
Saint Louis District

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

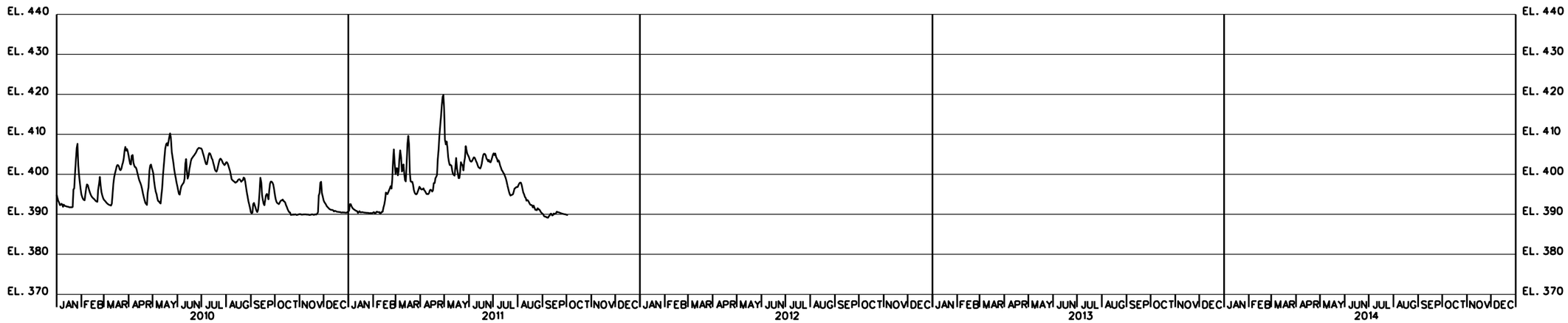
U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.WILLS
SUBMITTED BY: G. LEE
DATE: SEPT 16, 2011
SOLICITATION NO.: W912PS-12-R-0703
CONTRACT NO.:
FILE NUMBER:
PLOT SCALE: AS SHOWN
PLOT DATE: 09/20/2010
SIZE: ANSI D
FILE NAME:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK, MISSOURI

VALLEY PARK STAGE HYDROGRAPHS
1995 TO 2009

SHEET IDENTIFICATION
H-002



LEGEND:

—— PERIOD OF RECORD 2010 - PRESENT

US Army Corps of Engineers®
Saint Louis District

MARK	DESCRIPTION	DATE	APPR

MARK	DESCRIPTION	DATE	APPR

U.S. ARMY CORPS OF ENGINEERS
SAINT LOUIS DISTRICT
SAINT LOUIS, MISSOURI

DESIGNED BY: D. REILLY
DWN BY: D. REILLY
CKD BY: J.MILLS
SUBMITTED BY: G. LEE
PLOT SCALE:
PLOT DATE: 04/02/2010
SIZE: ANSI D
FILE NAME:
DATE: SEPT 16, 2011
SOLICITATION NO.: WP12PS-12-R-0703
CONTRACT NO.:
FILE NUMBER:

SEEPAGE AND STONE PROTECTION ALTERATIONS
MERAMAC RIVER BASIN
FISHPOT CREEK
VALLEY PARK, MISSOURI

VALLEY PARK STAGE HYDROGRAPHS
2009 TO 2011

SHEET IDENTIFICATION
H-003