



PUBLIC NOTICE

**U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT**

BUILDING STRONG®

F-4 CHANNEL REHABILITATION PROJECT LAS VEGAS, NEVADA

The U.S. Army Corps of Engineers (Corps) is preparing a Project Information Report (PIR) following damage to the F-4 Channel, a rectangular concrete channel located southwest of the Las Vegas Beltway pursuant to Public Law 84-99, as amended. The PIR will identify the approximate extent of damage, the recommended rehabilitation plan, alternative design options, economic benefits, expected environmental permits and constraints, and the approximate construction cost.

The damaged F-4 Channel was constructed as part of the Tropicana and Flamingo Washes Project in 2007. Heavy rains in the vicinity of the channel on September 8, 2014 caused ponding adjacent to the channel access road. Continued rain and runoff caused the ponding to over flow across the access road and enter the channel. Damage includes stressed and failed wall panels (See Figures 4 and 5). The damaged segment of channel wall is approximately 4.3-m (14-ft) high by 18-m (59-ft) long and is located between approximate Sta. 25+25 and Sta. 25+43. The adjacent wall panel immediately upstream of the damaged segment also showed signs of stress and was close to falling.

Four build alternatives are being evaluated.

- Alternative No. 1 (Immediate Repair) consists of installing soldier piles (Figure 2) along the two damaged wall segments (36-m or 118-ft). The approximate stationing along the right channel wall (looking downstream) is Sta. 25+25 to Sta. 25+61. The pile lengths will be 10.7-m (35-ft) and 1.8-m (6-ft) on center with lagging and concrete facing.
- Alternative No. 2 (Temporary Repair) consists of installing soldier piles along the two damaged wall segments (36-m or 118-ft). Installation of tiebacks and whaler bracing (Figure 3) are proposed for the adjacent damaged channel segments that are considered to be inadequate of steel reinforcement. For the right channel wall (looking downstream), the temporary repair is recommended from Sta. 25+61 to Sta. 26+64 for a length of 103-m (338-ft). For the left channel wall (looking downstream), the length of temporary repair is 139-m (456-ft), from Sta. 25+25 to Sta. 26+64.
- Alternative No. 3 (Permanent Repair) would remove and replace channel walls (both sides) and invert that are considered to be structurally inadequate. The length of permanent repair is 139-m (456- ft).
- Alternative No. 4 (Permanent Repair) would remove and replace channel walls (both sides) and invert along the two damaged wall segments (36-m or 118-ft). The approximate stationing along the right channel wall (looking downstream) is Sta. 25+25 to Sta. 25+61.

Duration of construction of differs by alternative. The maximum construction duration is approximately six months.

U.S. ARMY CORPS OF ENGINEERS – LOS ANGELES DISTRICT



PUBLIC NOTICE

As part of the PIR, the Corps is preparing an environmental assessment (EA) pursuant to the National Environmental Policy Act. The EA will evaluate the impacts of the four build alternatives as well as the No Action Alternative. The document will also determine whether environmental impacts warrant the preparation of an Environmental Impact Statement.

The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this proposed project and alternatives.

Comments will be accepted from January 27, 2015 to February 9, 2015.

Comments should be mailed to:

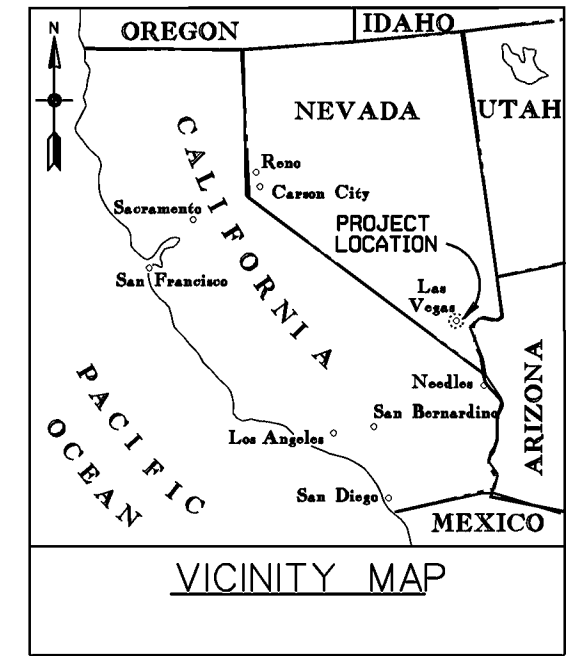
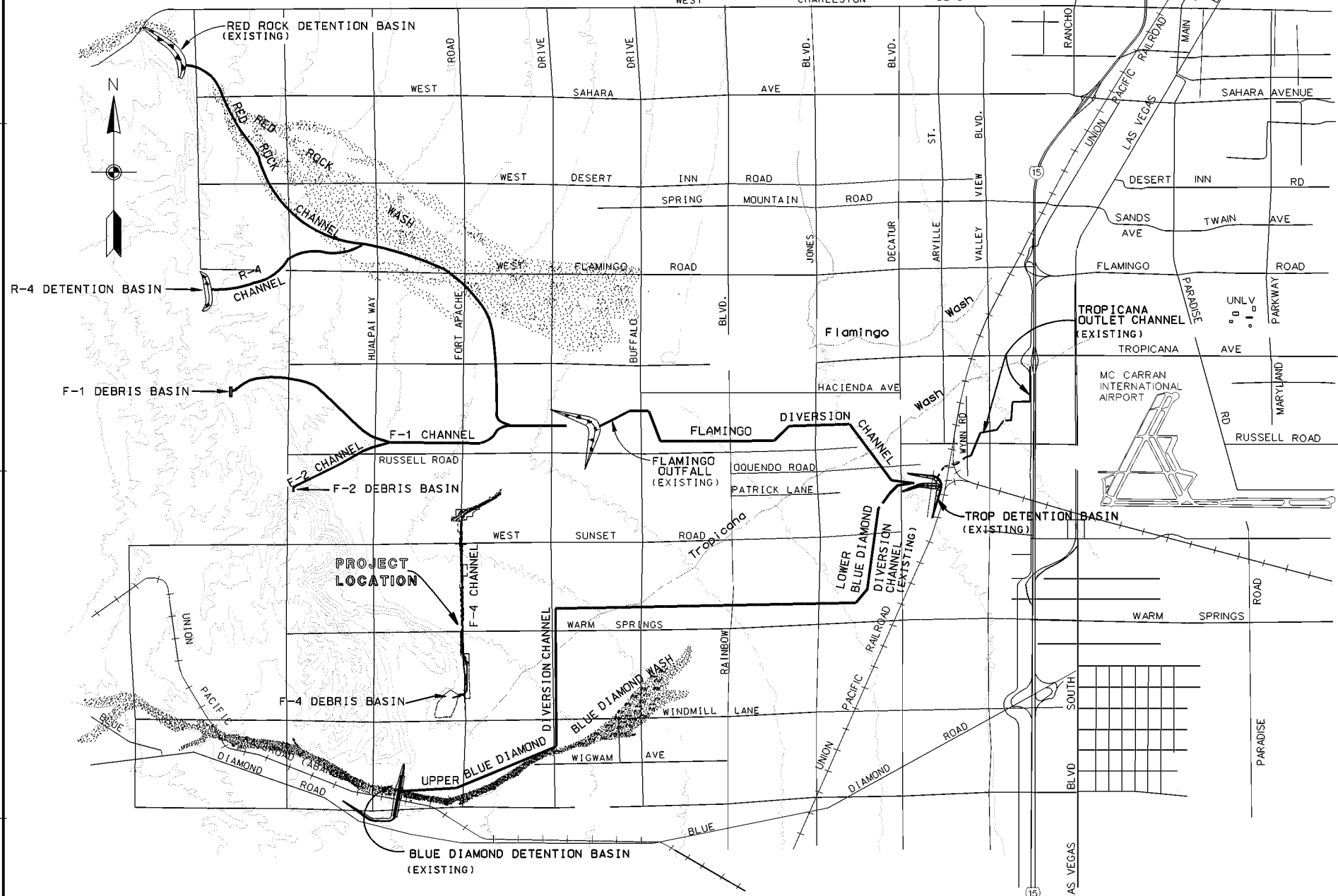
U.S. Army Corps of Engineers
Larry Smith, Planning Division
915 Wilshire Boulevard
Los Angeles, CA 90017

Alternatively, comments can be sent electronically to: Lawrence.J.Smith@usace.army.mil

LAS VEGAS WASH AND TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES), NEVADA

F-4 BASIN AND CHANNEL

(F-4 DEBRIS BASIN TO LAS VEGAS BELTWAY)
(FINAL SUBMITTAL)



AGENCY	PLANS REVIEWED BY	DATE
LAS VEGAS VALLEY WATER DISTRICT		
SOUTHERN NEVADA WATER AUTHORITY	N/A	
SPRINT/CENTRAL TELEPHONE COMPANY	<i>[Signature]</i>	11/20/04
SOUTHWEST GAS CORPORATION	<i>[Signature]</i>	9/19/04
NEVADA POWER COMPANY	<i>[Signature]</i>	08/20/04
CLARK COUNTY WATER RECLAMATION DISTRICT	<i>[Signature]</i>	08/18/04
WILLIAMS GAS PIPE LINE - WEST KEEN RIVER	<i>[Signature]</i>	8-17-04
AT&T	N/A	
COX COMMUNICATIONS LAS VEGAS, INC.	<i>[Signature]</i>	8-18-04

PROJECT LOCATION MAP

Clark County Department of Public Works
Approved by: *[Signature]*
M.J. Manning, P.E., Director

Clark County Regional Flood Control District
Approved by: *[Signature]*
Gabe Wainwright, P.E., General Manager

County Manager
Thom F. Reilly

County Commissioners
Chip Maxfield, Chair
Myrna Williams, Vice-Chair
Yvonne Atkinson Gates
Lynette Boggs McDonald
Mary J. Kincaid-Chauncey
Rory Reid
Bruce L. Woodbury

NOTE:
1. ALL ROADS SHOWN ON THIS DRAWING MAY NOT HAVE BEEN CONSTRUCTED YET. THE ROUTE FOR SITE ACCESS AND DISPOSAL OF MATERIALS SHALL BE VERIFIED BY THE CONTRACTOR.

THIS PROJECT WAS DESIGNED BY THE LOS ANGELES DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY E.R. 1110-1-8152. SIGNATURES AFFIXED HEREON INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL THE DRAWINGS IN THIS SET.

DESIGNED BY: HMN	DATE: 3/16/04	APPROVED BY: <i>[Signature]</i>	DATE: 9/15/04
DRAWN BY: AGM	CHECKED BY: CED	U.S. ARMY ENGINEER DISTRICT LOS ANGELES CORPS OF ENGINEERS	DISTRICT FILE NO. 214/247
PREPARED UNDER THE DIRECTION OF: COL. ALEX C. DORNSTAUER	CHEF DESIGN BRANCH	FILE NAME: T01AM_8.DGN	

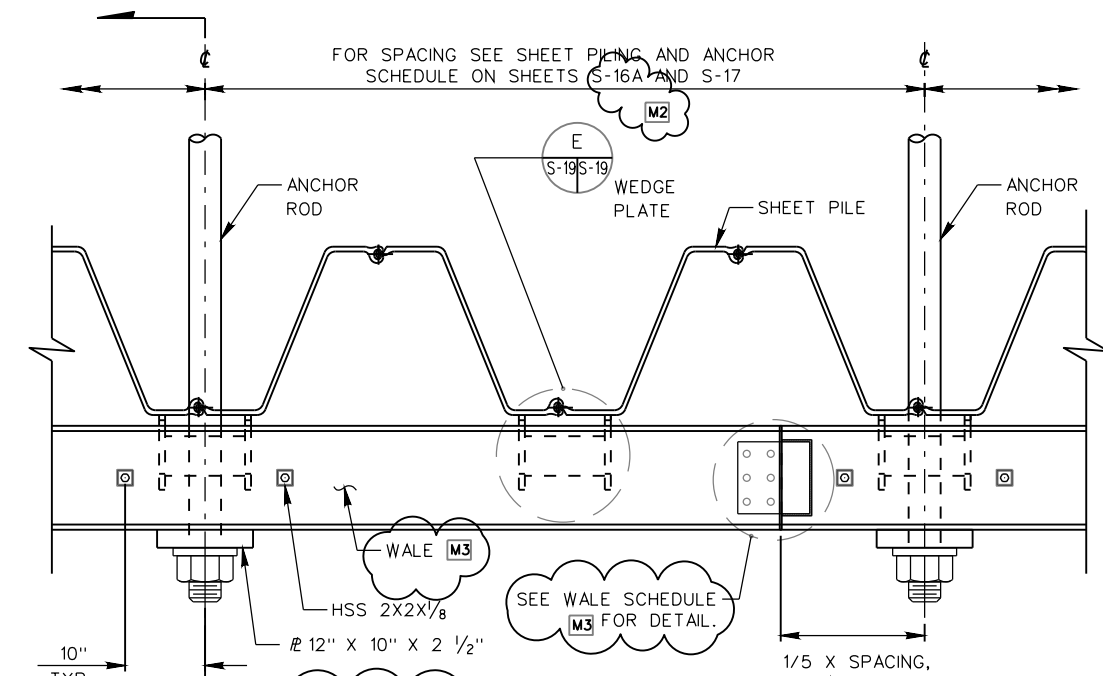
SYMBOL	DESCRIPTIONS	DATE	APPROVAL

LAS VEGAS WASH AND TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES), NEVADA
F-4 BASIN AND CHANNEL
VICINITY MAP, PROJECT LOCATION MAP

Figure 1 Project Location



Figure 3 Tieback



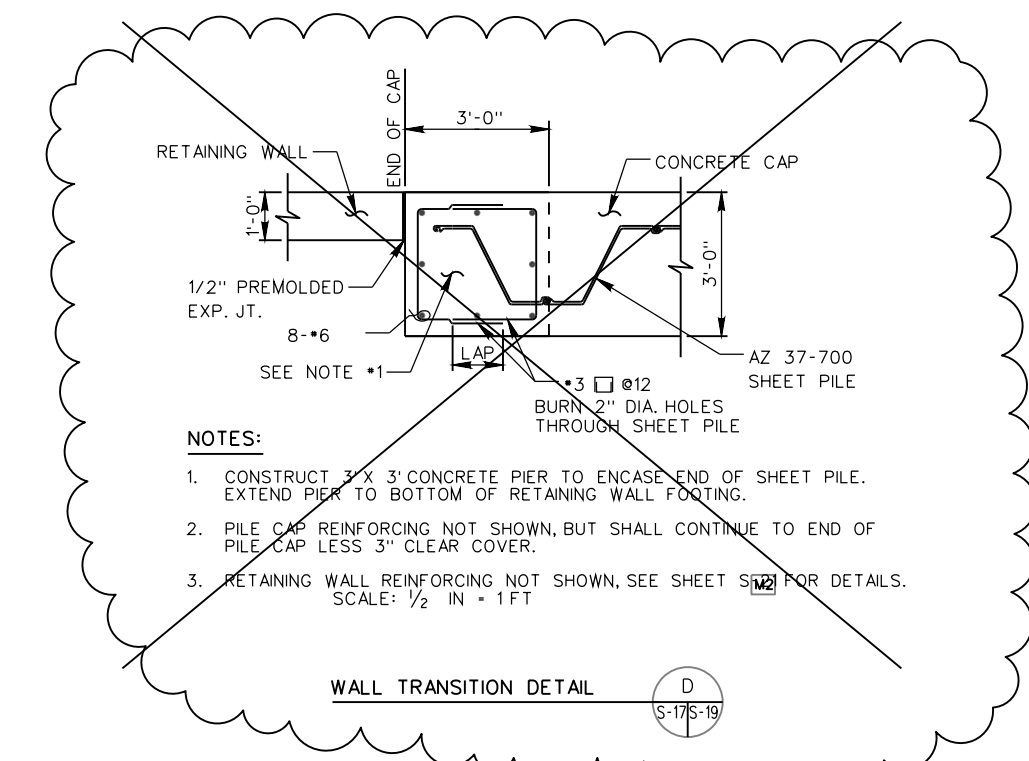
WALE SCHEDULE M3

ZONE	WALE SECTION	WALE SPLICE DETAIL
2, 3, 8B, 9, 10, 12, 13, 14, 15	2-C15X40	SHEET S-19, DETAIL F
4, 5A, 5B, 5C, 7, 8A	2-C15X50	SHEET S-19A, DETAIL A

1 FOR 2-C15X40 TO 2-C15X50 SPLICE: USE SHEET 19A, DETAIL A.

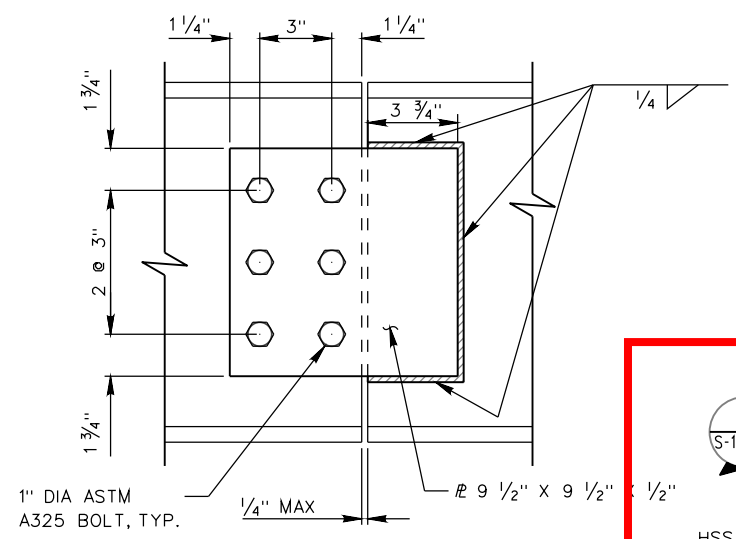
- NOTES:
- CONCRETE CAP NOT SHOWN.
 - WALE AND ANCHOR CONNECTIONS ARE SHOWN IN TOP VIEW FOR CLARITY.
 - WALES SHALL SPAN AT LEAST 4 ANCHORS AND BE SPLICED TO FORM A CONTINUOUS BEAM. SPLICES SHALL BE LOCATED AT 1/5 THE ANCHOR SPACING WHEN NECESSARY AND CONSIST OF PLATES CONNECTING THE CHANNEL WEBS.

TYPICAL PLAN DETAIL A
NOT TO SCALE
S-16A/S-19
S-17



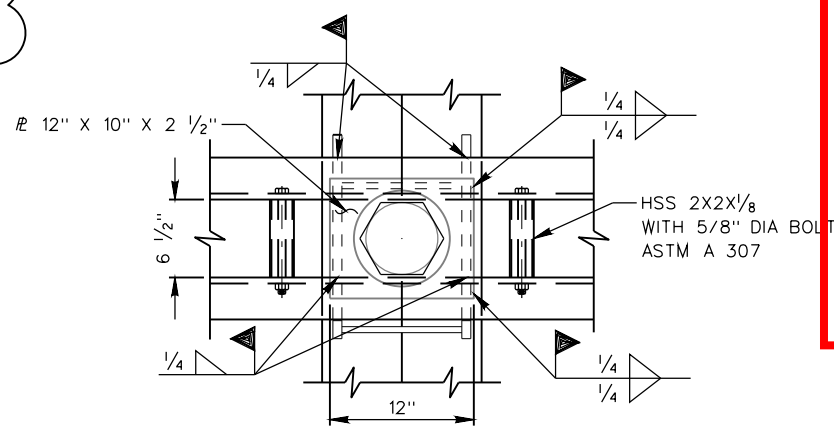
- NOTES:
- CONSTRUCT 3' X 3' CONCRETE PIER TO ENCASE END OF SHEET PILE. EXTEND PIER TO BOTTOM OF RETAINING WALL FOOTING.
 - PILE CAP REINFORCING NOT SHOWN, BUT SHALL CONTINUE TO END OF PILE CAP LESS 3" CLEAR COVER.
 - RETAINING WALL REINFORCING NOT SHOWN, SEE SHEET S-17 FOR DETAILS.

WALL TRANSITION DETAIL D
S-17/S-19

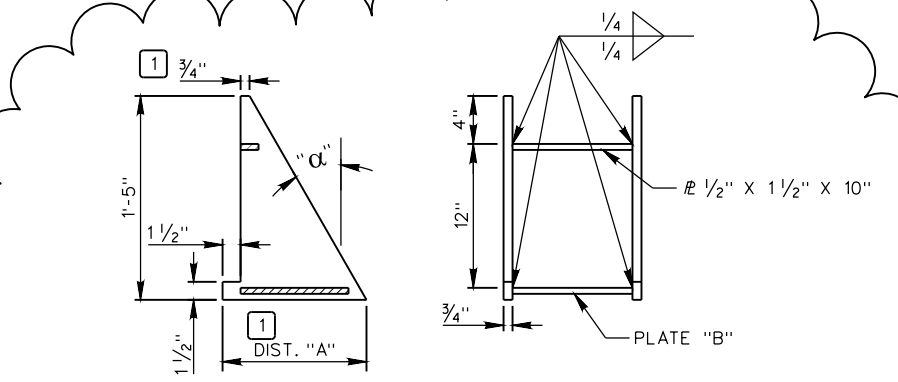


- NOTES:
- SINGLE PLATE SPLICES SHALL BE PROVIDED FOR BOTH CHANNEL SHAPES.
 - BOLTS ARE PERMITTED TO BE INSTALLED TO THE SNUG-TIGHT CONDITION.

C15X40 WALE SPLICE PLATE DETAIL F
SCALE: 3 IN = 1 FT
S-19S-19



ANCHOR ELEVATION C
SCALE: 1 1/2 IN = 1 FT
S-19S-19

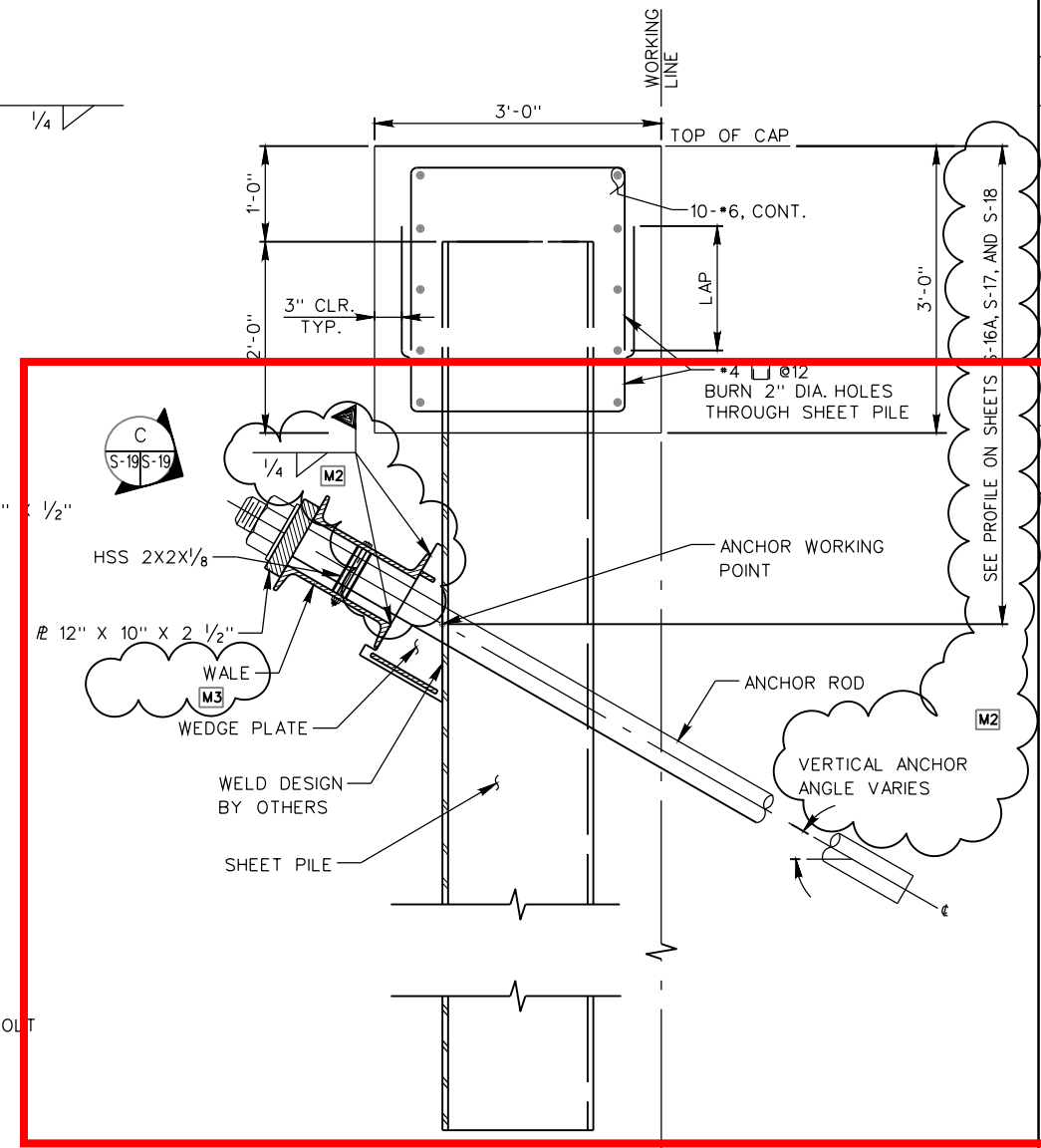


NOTE: INCREASE AS REQUIRED TO ACCOUNT FOR MISALIGNED SHEET PILES.

WEDGE PLATE SCHEDULE

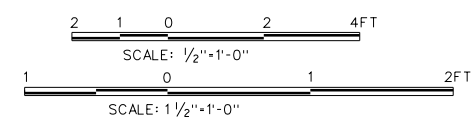
ANGLE "α"	DIST. "A"	PLATE "B"
15°	6 3/4"	# 1/2" X 4" X 10"
30°	12"	# 1/2" X 9" X 10"

WEDGE PLATE DETAIL E
SCALE: 1 1/2 IN = 1 FT
S-19S-19



TYPICAL SECTION DETAIL B
NOT TO SCALE
S-19S-19

- NOTES:
- CONTRACTOR IS RESPONSIBLE FOR ALL ANCHOR DESIGN AND CONNECTIONS AS SPECIFIED.
 - STEEL FOR WALES, PLATES, AND MISC. SHAPES SHALL MEET REQUIREMENTS ASTM A572, GRADE 50, UNLESS APPROVED OTHERWISE.
 - PROVIDE WEATHER COVER TO PROTECT ANCHOR ROD, NUT, AND THREADS.



DESIGNED BY: J. MAJORS
DRAWN BY: J. MAJORS
CHECKED BY: R. CONLEY
FILE NAME: S-19-M-3.dgn

U.S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS
ARTHUR Y. JUNG, PE
CHIEF, DESIGN BRANCH

REVISIONS

NO.	DATE	DESCRIPTION	BY	APPROVED
M3	10/11/12	REV. WALE SECTION AND WALE SPLICE DETAIL	GG	
M2	5/2/12	MISC. REVISIONS	RJC	
A	8/19/11	REVISED WALE SPLICE DETAIL	RJC	

DATE APPROVAL

SHEET S-19



Figure 4. Failed Panel



Figure 5. Upstream Panel