



Port of Port Arthur
P.O. Box 1428
Port Arthur, Texas, 77641



2925 Briarpark Drive
Houston, Texas 77042-3720
Tel 713-266-6900 Fax 713-266-7596

1

Revision 1 was prepared by Collins Engineers, Inc. and issued under the authority of Laurence R. Emsley (Tx Reg No. 71018) on April 7, 2017

Collins Engineers, Inc.
Texas Registered Engineering Firm F-9791

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	04/21/16
1	ISSUE FOR SEPARATE BID	04/07/17
2	MOORING BOLLARD MODIFICATIONS	01/10/18

FILE LOG

Manager	ETT
Design	PRJ
Draw	TMP
Check	IDI

STAMP



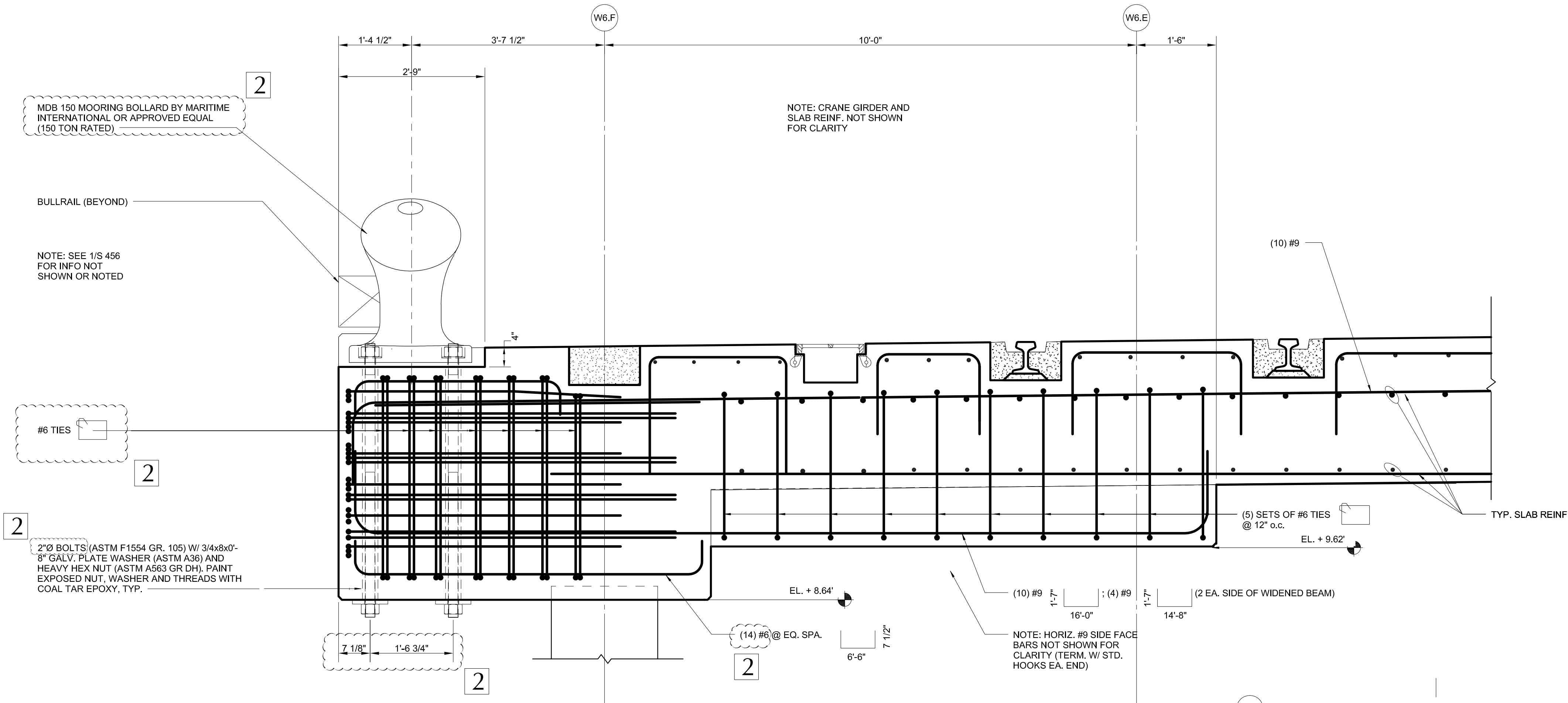
Lockwood, Andrews & Newnam, Inc.
Texas Registered Engineering Firm F-2614



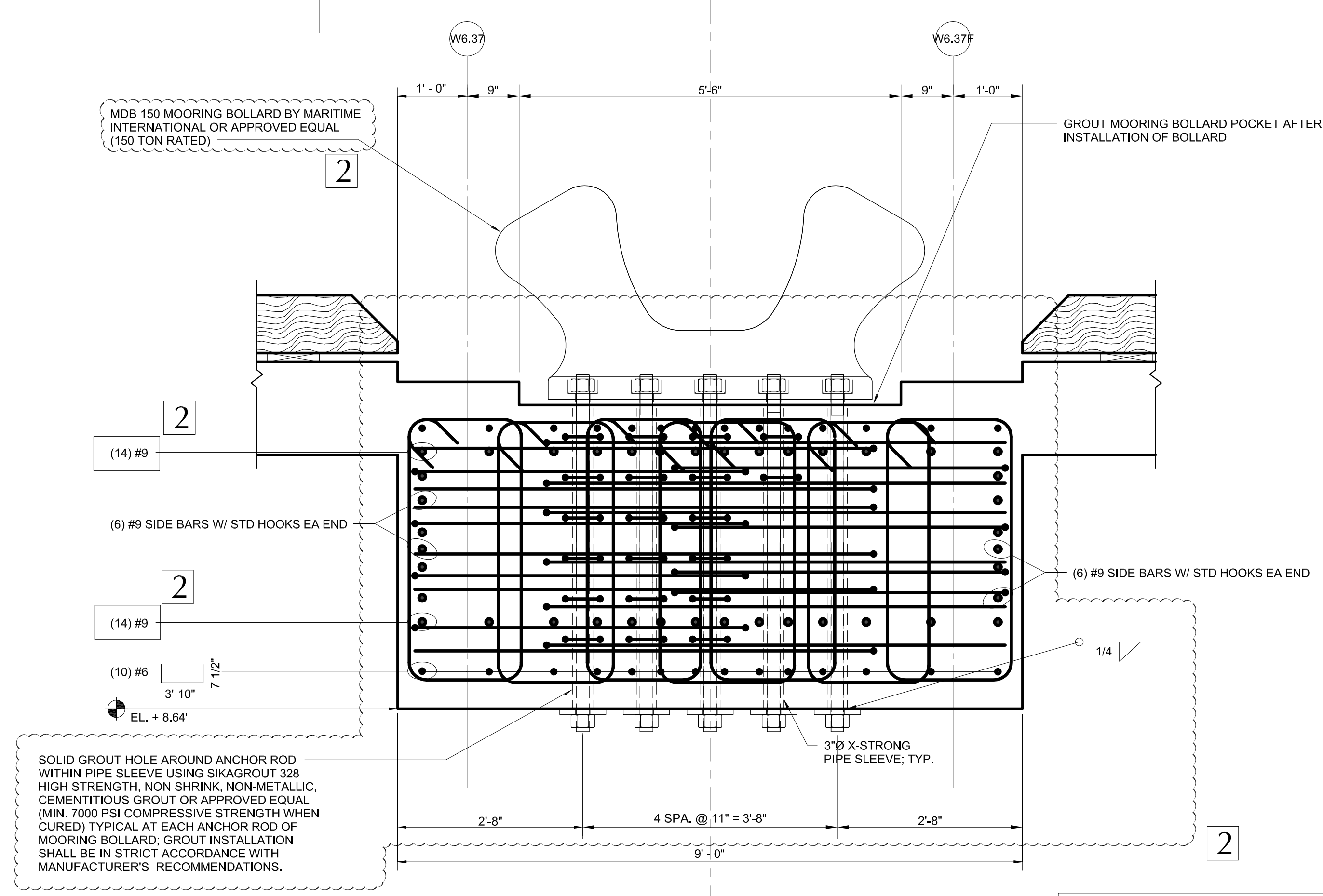
Project No. 120-10849-016
Date: April 21, 2016

MOORING BOLLARD BEAM
PLANS, SECTIONS AND DETAILS
(SHEET 2 OF 2)

S 457



1 TYPICAL LONGITUDINAL SECTION AT MOORING BOLLARD BEAM
SCALE: 3/4" = 1'-0"



2 TRANSVERSE REINFORCING SECTION AT TYPICAL BOLLARD
SCALE: 3/4" = 1'-0"

1 PLANS MODIFIED TO DELINEATE BERTH 5
LIMITS OF WORK FOR SEPARATE BID AND PLAN
MODIFICATIONS
APRIL 7, 2017
TEXAS REGISTERED ENGINEERING FIRM F-9791

1/9/2018 1:31:55 PM C:\Users\mparks\Documents\Autodesk\Revit\2016\Projects\120-10849-016 SS-POPA-LAN_imparks.rvt