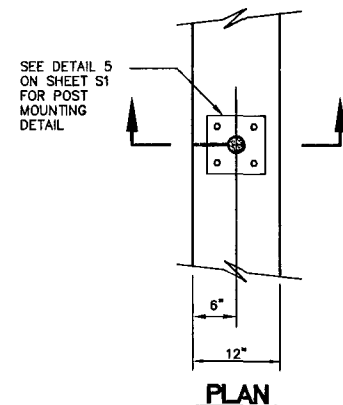
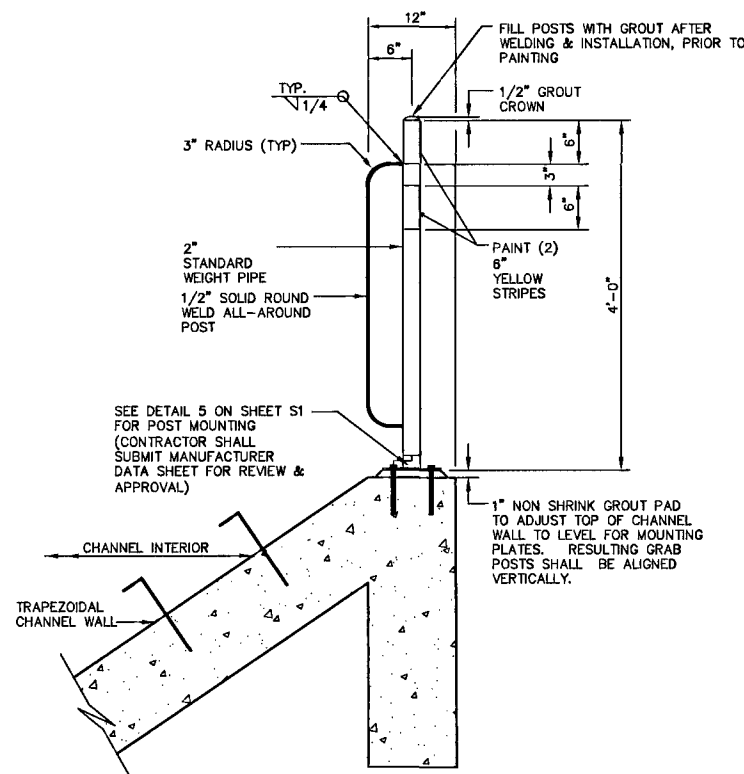
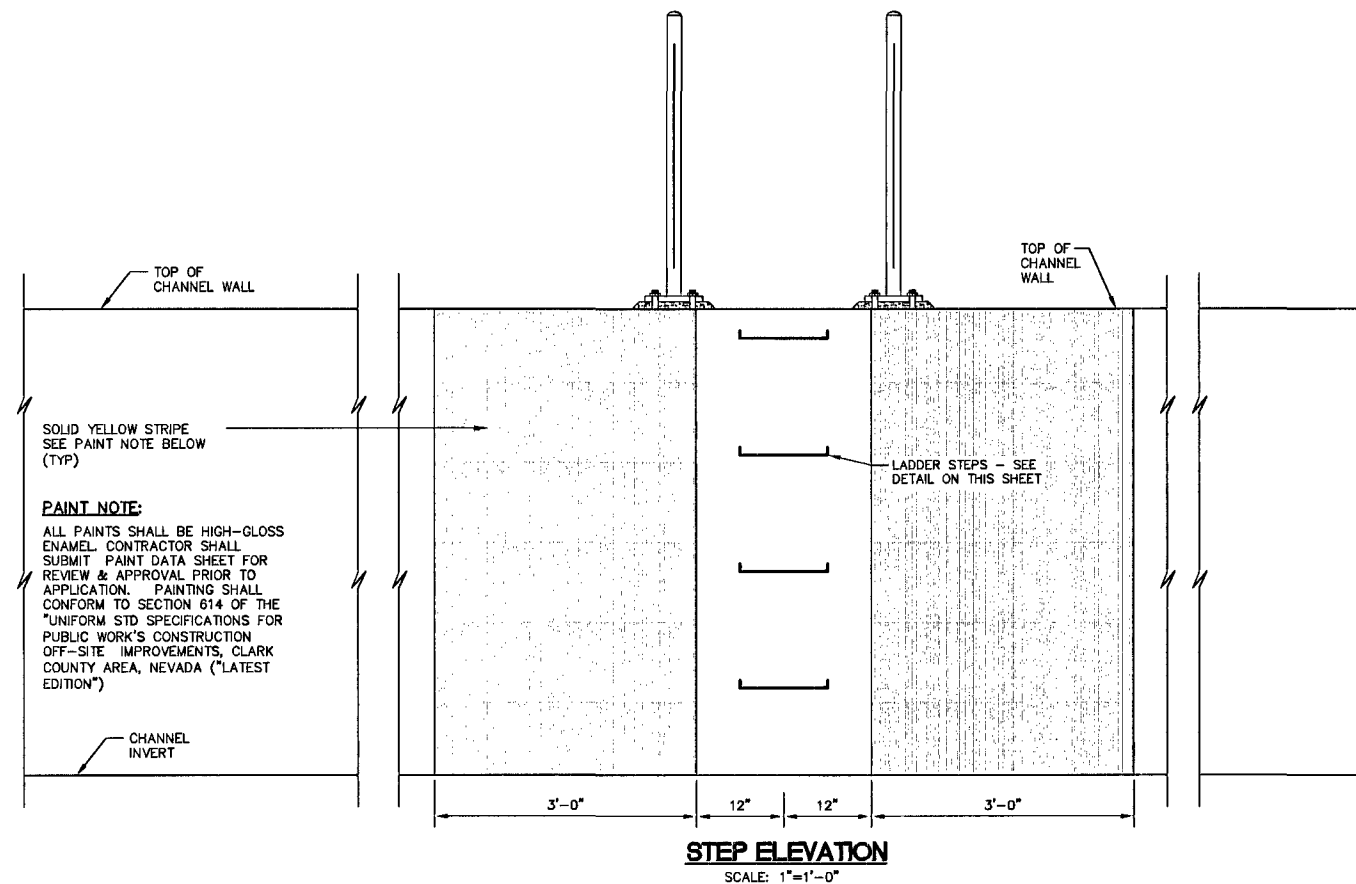




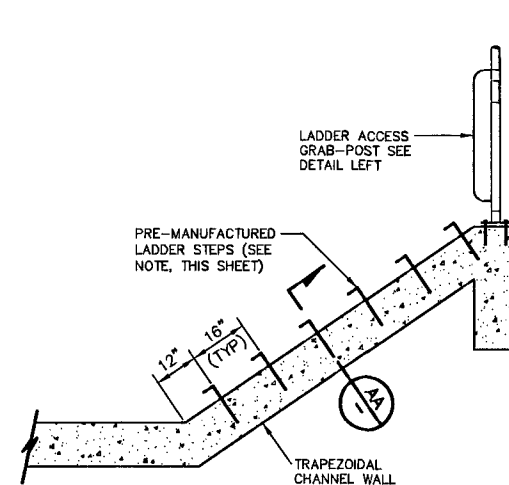
CHANNEL LADDER LOCATION SCHEDULE	
STATION	OFFSET
SD1 14+36	12' RT
SD1 14+60	12' LT
SD1 19+86	12' RT
SD1 20+10	12' LT
SD1 25+21	12' RT
RB 111+59.72	105.09' RT
SD1 25+45	12' LT
WS 18+03.78	127.79' LT



SECTION

LADDER ACCESS GRAB-POST NOTE:
ALL GRAB-POST COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. PAINT STRIPES WITH YELLOW ENAMEL AFTER INSTALLATION (SEE PAINT NOTE). GRAB-POSTS SHALL BE INSTALLED AT ALL LADDER LOCATIONS ON ALL RECTANGULAR CHANNEL SECTIONS.

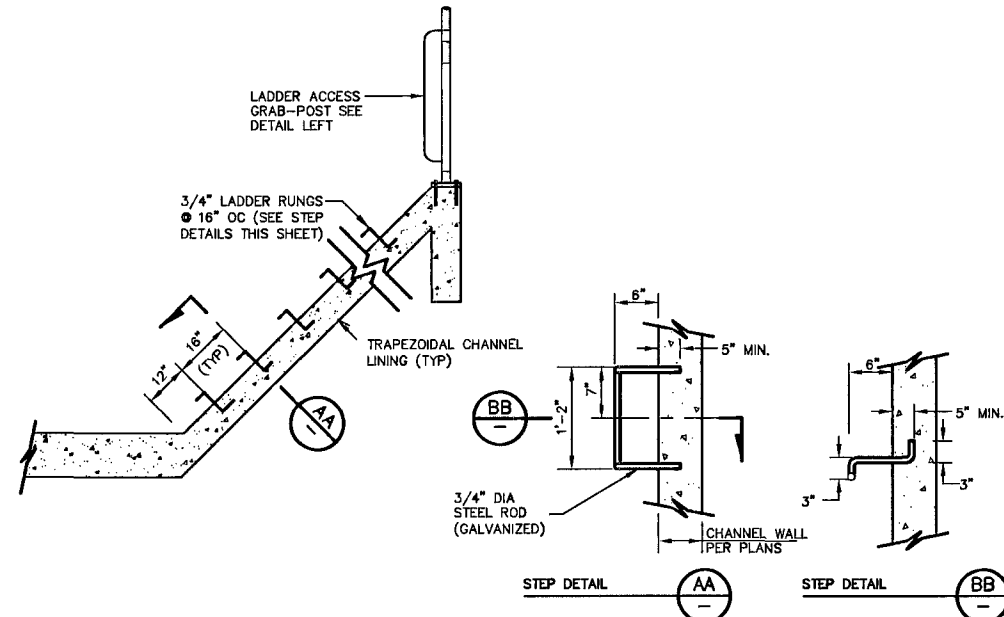
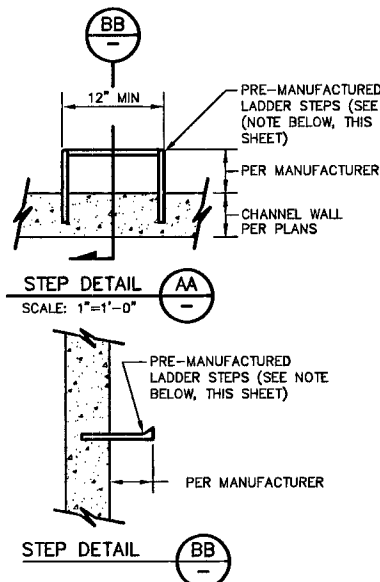
TYPICAL LADDER ACCESS GRAB-POST
SCALE: 1"=1'-0"



TRAPEZOIDAL CHANNEL LADDER

PRE-MANUFACTURED LADDER NOTE:
LADDER STEPS SHALL BE "NEENAH R-1982-F" OR APPROVED EQUIVALENT. THEY SHALL BE UV RESISTANT (NO POLYPROPYLENE WILL BE ALLOWED.) PRE-MANUFACTURED COMPONENTS DESIGNED SPECIFICALLY FOR FOR INSTALLATION INTO EXISTING CONCRETE STRUCTURES TO RESIST PULLOUT FORCES OF A MINIMUM OF 1500 POUNDS. CONTRACTOR SHALL SUBMIT MANUFACTURER DATA SHEET FOR REVIEW AND APPROVAL. ONCE APPROVAL IS OBTAINED, THE STEPS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PULLOUT RESISTANCE TESTS MAY BE PERFORMED AFTER INSTALLATION AT THE OWNER'S AND/OR ENGINEER'S DISCRETION. PULLOUT TESTS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.

TYPICAL CHANNEL LADDER DETAIL - DRILL AND EPOXY (OPTION 1)
NOT TO SCALE



TYPICAL CHANNEL LADDER DETAIL - CAST IN-PLACE (OPTION 2)
NOT TO SCALE

Call before you Dig
1-702-227-2929
NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
1-811
CIVIL

PUBLIC WORKS DEPARTMENT 400 E. STEWART AVE. LAS VEGAS, NV 89101 702-227-2929 WWW.VTNV.COM		LAS VEGAS WASH - MIDDLE BRANCH RAINBOW STORM DRAIN ELKHORN TO GRAND TETON	
DRAWN BY: BH/JAM	DESIGNED BY: DAS	CHECKED BY: KGS/TMM/CH	PROJECT NO.: 6892
JUNE 15, 2009	JUNE 15, 2009	JUNE 15, 2009	SCALE: HORIZ. N/A VERT. N/A
SHEET D2 29 OF 70 SHEETS		DRAWING NO. 731-57-1	