



FIELD PROCEDURES

- RESTRICT/PROHIBIT THE PUSHING EMISSION CAR FROM TRAVELING WITHIN THE WORK AREA UNTIL ALL REPAIRS HAVE BEEN IMPLEMENTED AND THE CONCRETE/GROUT HAS HAD SUFFICIENT CURING TIME.
 - CAISSON # 8 - DEAD LOAD OF SUPPORT = 340 KIPS (NO LIVE LOADS)
 - REMOVE ALL EXCESS COKE AND DEBRIS FROM THE AREA AROUND EXISTING CAISSON # 8, AND GRADE TO SOLID UNDISTURBED EARTH. UNDERGROUND UTILITIES EXIST WITHIN THE AREA, AND CAUTION/CARE SHALL BE TAKEN WHILE GRADING; IF CONCRETE SLAB IS REVEALED ON THE SOUTHERN SIDE OF THE CAISSON DEFINE THE LIMITS OF THE SLAB AND DO NOT DISTURB THE SLAB. THE CONDITION OF THE SLAB SHOULD BE INVESTIGATED TO ESTABLISH SUITABILITY FOR SHORING/JACKING.
 - BACK FILL AREA AROUND CAISSON # 8 WITH WELL GRADED CRUSHED STONE (COMPACTED TO A MINIMUM BEARING CAPACITY OF 3000 PSF AND GRADED TO EL. +13'-0")
 - INSTALL NEW 3/4" STIFF PLATES ON EXISTING SUPPORT
 - INSTALL WOOD CRIBBING AND SHORING/JACKING FRAMING STEEL. FIELD VERIFY COLUMN HEIGHT REQUIRED PRIOR TO COLUMN FABRICATION.
 - INSTALL FOUR 150 TON JACKS. JACKS TO BE CONTROLLED/OPERATED SIMULTANEOUSLY AND SHALL HAVE LOAD INDICATORS & SAFETY VALVES.
 - JACK EXISTING SUPPORT UP TO PROPER ELEVATION, AS DETERMINED BY OWNER AND VERIFIED BY CONTRACTOR & LOCK-OUT JACKS. (PERIODICALLY MONITOR ELEVATION OF SUPPORT AS REQUIRED TO IDENTIFY IF SETTLEMENT OCCURS)
 - REMOVE TOP 4'-0" OF EXISTING STEEL JACKET PLATE FROM CAISSON. IF A CONCRETE SLAB FORMS AROUND THE SOUTHERN SIDE OF THE CAISSON ABOVE THE 4'-0" HEIGHT, CUT EXISTING JACKET PLATE 3" +/- ABOVE THE TOP OF THE SLAB.
 - REMOVE ALL LOOSE/BROKEN CONCRETE OF CAISSON DOWN TO SOUND CONCRETE, BEING CAREFUL NOT TO DAMAGE EXISTING REBARS. IT IS ANTICIPATED THAT SOUND CONCRETE WILL BE OBTAINED WITHIN THE TOP 4'-0" AREA OF THE CAISSON. IF THE EXISTING CONDITIONS EXCEED THIS 4'-0" VERTICAL AREA, THE CONTRACTOR SHALL NOTIFY THE ACME ENGINEER PRIOR TO PROCEEDING.
 - CUT EXISTING ANCHOR BOLTS WHERE FULL SECTION IS OBTAINED AND WELD ON NEW THREADED RODS AS REQUIRED. (FOUR NEW RODS REQUIRED SEE DETAIL "1" AND DETAIL "6" ON DWG C-8765)
 - SANDBLAST/CLEAN ALL EXPOSED REBARS.
 - INSTALL A NEW 1/2" STEEL JACKET PLATE AROUND THE CAISSON AND FILL THE CAISSON WITH A HIGH EARLY STRENGTH CONCRETE (3000 PSI AT 72 HOURS) TO WITHIN 1" FROM THE BOTTOM OF THE EXISTING BASE PLATE. FIELD CHECK ALIGNMENT OF EXISTING BASE PRIOR TO POURING CONCRETE. VIBRATE CONCRETE AS REQUIRED TO AVOID AIR POCKETS. (SEE DETAILS #1, #2, #4 AND #5 ON DWG C-8765)
 - AFTER CONCRETE HAS CURED FIELD VERIFY/CHECK ELEVATION OF SUPPORT. IF THE PROPER ELEVATION EXISTS, INSTALL A HIGH STRENGTH NON-SHRINK GROUT (EMBECCO 636 OR APPROVED EQUAL) UNDER THE BASE PLATE. IF THE PROPER ELEVATION DOES NOT EXIST, THE CONTRACTOR SHALL NOTIFY THE ACME ENGINEER PRIOR TO PROCEEDING FURTHER.
 - AFTER THE GROUT HAS CURED REMOVE THE SHORING/JACKING FRAME.
- CAISSON # 9**
- AT THE NORTHERN PORTION OF THE EXISTING BASE PLATE, REMOVE ALL LOOSE GROUT AND CONCRETE DOWN TO SOLID MATERIAL AS REQUIRED TO EXPOSE THE 2 NORTH ANCHOR BOLTS. IT IS ANTICIPATED THAT SOUND CONCRETE WILL BE OBTAINED WITHIN 3" FROM THE TOP OF THE CAISSON. (DO NOT DISTURB THE EXISTING GROUT AND CONCRETE AT THE SOUTHERN PORTION OF THE EXISTING BASE PLATE.) INSTALL SHIM PLATES AS REQUIRED TO MAINTAIN ELEVATION OF EXISTING BASE PLATE. CUT EXISTING ANCHOR BOLTS WHERE FULL SECTION IS OBTAINED AND WELD ON NEW THREADED ANCHOR BOLTS AS REQUIRED. (SEE DETAILS #1 AND #6 ON DWG C-8765)
 - FILL AREA UNDER BASE PLATE WITH A NON-SHRINK HIGH STRENGTH GROUT (EMBECCO 636 OR APPROVED EQUAL). AFTER GROUT HAS CURED, INSTALL NEW ANCHOR BOLT NUTS.
 - CLAD THE TOP 4'-0" AREA OF THE EXISTING CAISSON JACKET WITH A NEW 1/2" STEEL PLATE JACKET. (SEE DETAILS #1, #3, #4 AND #5 ON DWG C-8765)
 - AFTER ALL REPAIR WORK HAS BEEN COMPLETED AND THE CONCRETE & GROUT HAS CURED, THE PUSHING EMISSION CONTROL CAR CAN RESUME OPERATIONS WITHIN THE SUBJECT AREA.
- CAISSONS # 8 AND # 9 - PROTECTIVE BARRIERS (TO BE INSTALLED AFTER IMPLEMENTING ABOVE REPAIRS)**
- CAREFULLY EXCAVATE AREA AROUND THE CAISSONS AS REQUIRED TO INSTALL A NEW PROTECTIVE BARRIER. THE BARRIER SHALL BE 6'-0" IN DEPTH FROM THE TOP OF THE EXISTING CAISSONS, AND SHALL BE BOXED OUT BY 2'-0" FROM THE OUTER FACE OF THE CAISSON, USING 1" FORM PLATES. (SEE DETAIL "1" ON DWG C-8765). AFTER THE FORM PLATES ARE IN PLACE, FILL THE AREA WITHIN THE PLATES WITH CONCRETE. IF THE CONCRETE CONDUIT BANK IS EXPOSED, CUT & FORM THE 1" PLATES TO PROVIDE AT LEAST 12" OF CLEARANCE FROM THE CONDUIT BANK. BACK FILL AREA AROUND PLATES AFTER CONCRETE HAS CURED.

