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PRECAST BOX CULVERT WITH ANCHOR TYPE WINGWALLS - RIGID FRAME

OPTIONAL HEADWALL
PER JOB SPECIFICATIONS

MANHOLE ACCESS OPENING AS
REQUIRED PER JOB SPECIFICATIONS
CSI CAN PROVIDE 48"Ø OR 30"Ø RISER
AS WELL AS 24"Ø OR 30"Ø GRADE RINGS

PIPE PENETRATION
PER JOB CONDITIONS

OPTIONAL PRECAST
FOOTINGS

RECESSED BOLT POCKET
PLATED CONNECTION
AT EACH JOINT

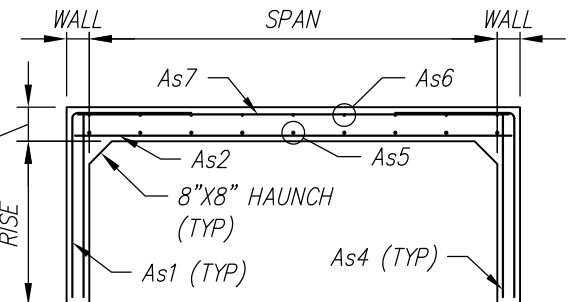
TOP SLAB

WEEP HOLES AS REQUIRED

GENERAL NOTES:

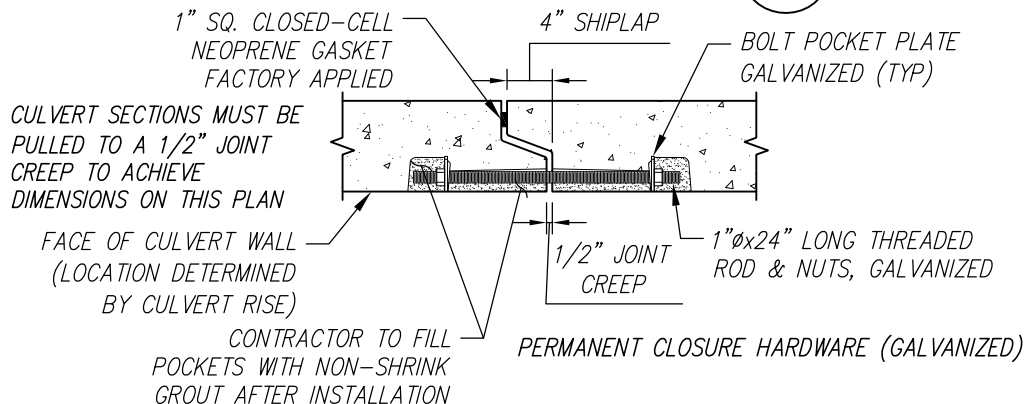
1. REFERENCE STANDARDS:
AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS"
ASTM C1577
2. DESIGN PARAMETERS:
LIVE LOAD: AS SPECIFIED
EARTH COVER: PER JOB CONDITIONS
CONCRETE: DESIGN STRENGTH $f'_c = 5000$ PSI
UNIT WEIGHT = 150 PCF
REINFORCING: ASTM A615 (REBAR) GR 60
ASTM A1064 (WWF) $F_y = 65$ KSI
SOIL UNIT WEIGHT = 120 PCF
MINIMUM LATERAL PRESSURE = 30 PCF
MAXIMUM LATERAL PRESSURE = 60 PCF
COVER TO REINFORCING: 1 1/2" U.N.O.
3. EXTERIOR DAMPPROOFING CAN BE SUPPLIED BY CSI.

ANCHOR TYPE WINGWALL WITH
PRECAST OR C.I.P. FOOTING



REINFORCING SECTION

Scale: N.T.S.



CONNECTION HARDWARE DETAIL

Scale: N.T.S.