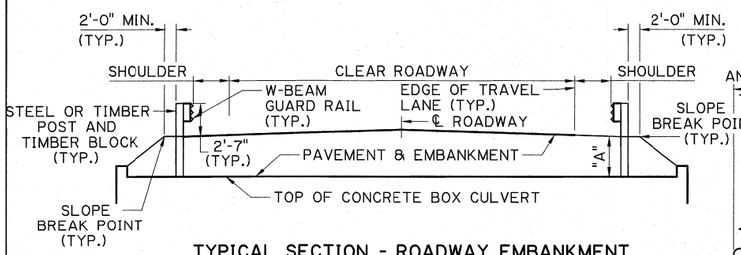
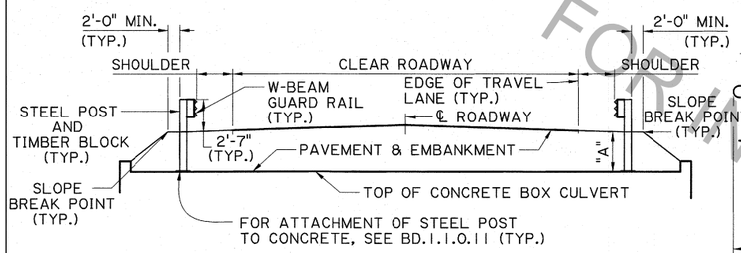
1/9/2019 08:52



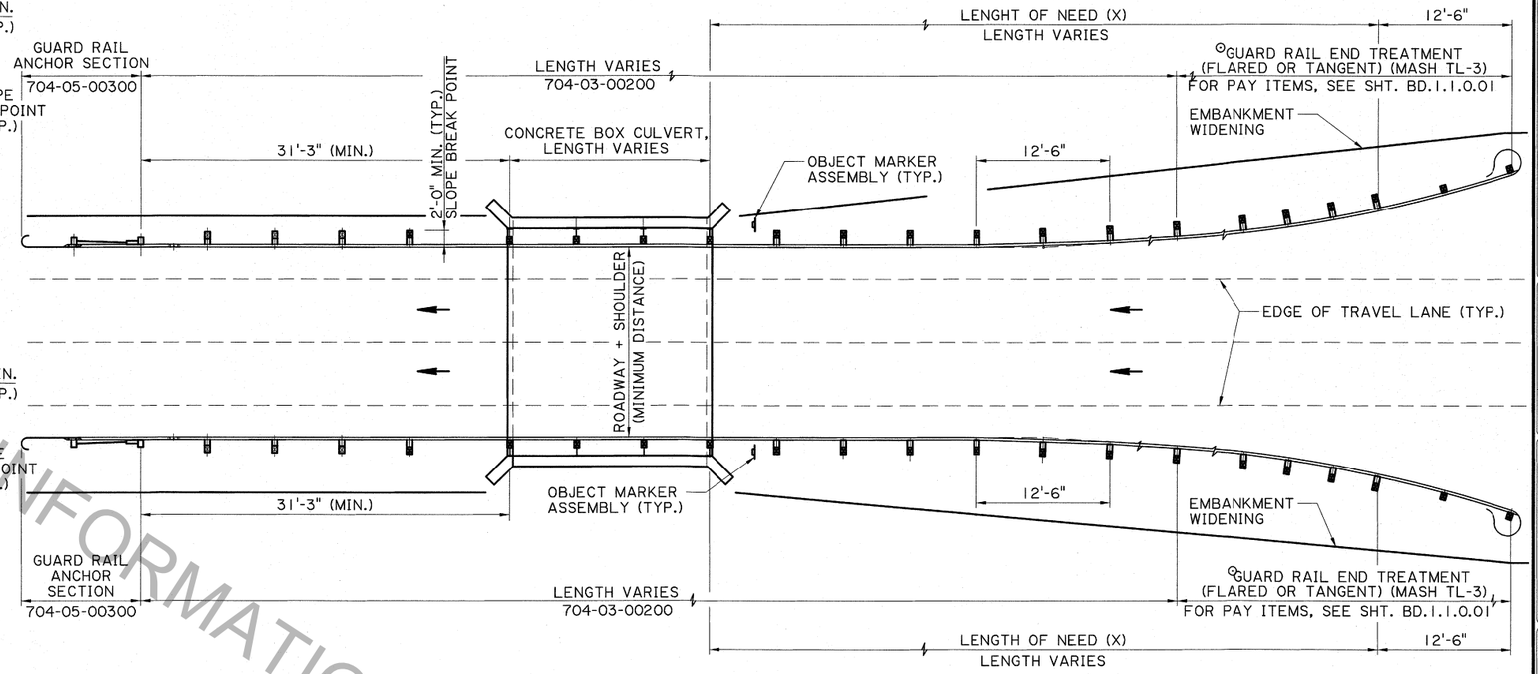
TYPICAL SECTION - ROADWAY EMBANKMENT OVER BOX CULVERT WITH STEEL OR WOOD POST

("A" = > 3'-4")
N.T.S.



TYPICAL SECTION - ROADWAY EMBANKMENT OVER BOX CULVERT WITH STEEL POST ATTACHMENT

("A" = < 3'-4", "A" = MIN. 9")
N.T.S.



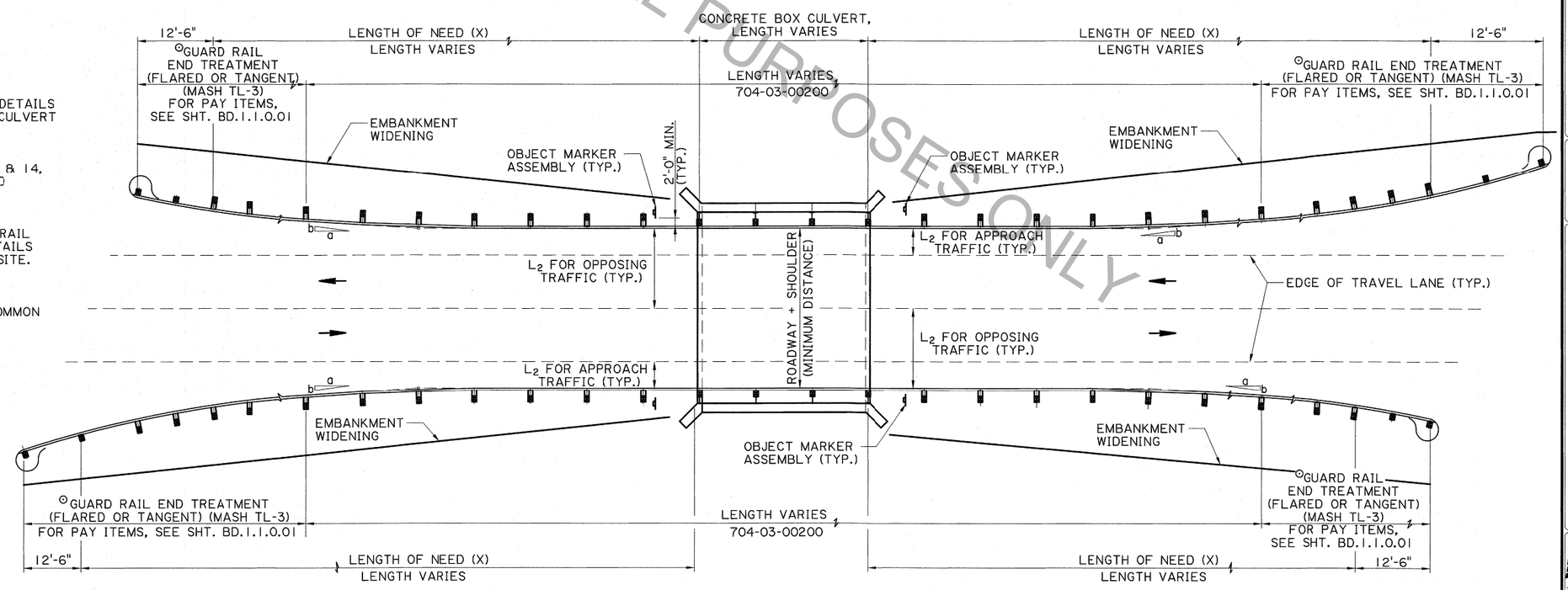
GUARD RAIL LAYOUT OVER CONCRETE BOX CULVERTS - DIVIDED HIGHWAY

HALF PLAN FOR DIVIDED HIGHWAY (LAYOUT SAME FOR OPPOSITE SIDE OF RDWY.)
N.T.S.

FOR INFORMATIONAL PURPOSES ONLY

NOTES:

1. LENGTH OF NEED (X) AND PLAN LAYOUT DETAILS ARE TO BE DETERMINED FOR EACH BOX CULVERT AT EACH SPECIFIC SITE.
2. ⊙ FOR END TREATMENTS SEE NOTES 9, 13, & 14, ON BD.1.1.0.01. FLARED OR TANGENT END TREATMENT MAY BE USED.
3. IN ADDITION TO THESE DETAILS, GUARD RAIL LAYOUT AND EMBANKMENT WIDENING DETAILS ARE REQUIRED FOR EACH BOX CULVERT SITE. SEE OTHER PLAN DETAILS.
4. FOR ALL OTHER DETAILS, REFERENCE COMMON DETAILS, BD.1.1.0.01 - BD.1.1.0.11.



GUARD RAIL LAYOUT OVER CONCRETE BOX CULVERTS - UNDIVIDED HIGHWAY

N.T.S.

SHEET NUMBER

PARISH	CONTROL SECTION	STATE PROJECT

DESIGN	P. FOSSIER	DETAIL	J. DOUCET
CHECK	K. BRAUNER	CHECK	K. BRAUNER
REVIEW	C. GUIDRY	SERIES #	1 OF 1

STATE OF LOUISIANA
KURT M. BRAUNER
License No. 30567
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
12/18/18

APPROVED BY CHIEF ENGINEER:
DATE: 1/3/19

STATE OF LOUISIANA

HIGHWAY GUARD RAIL (MASH) APPLICATION FOR BOX CULVERT

BD.1.3.0.01

STANDARD R.A.N. GR-MASH-BC

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

BRIDGE AND STRUCTURAL DESIGN

IP_PWP:d0840094\BD.1.3.0.01 - Raster.dgn