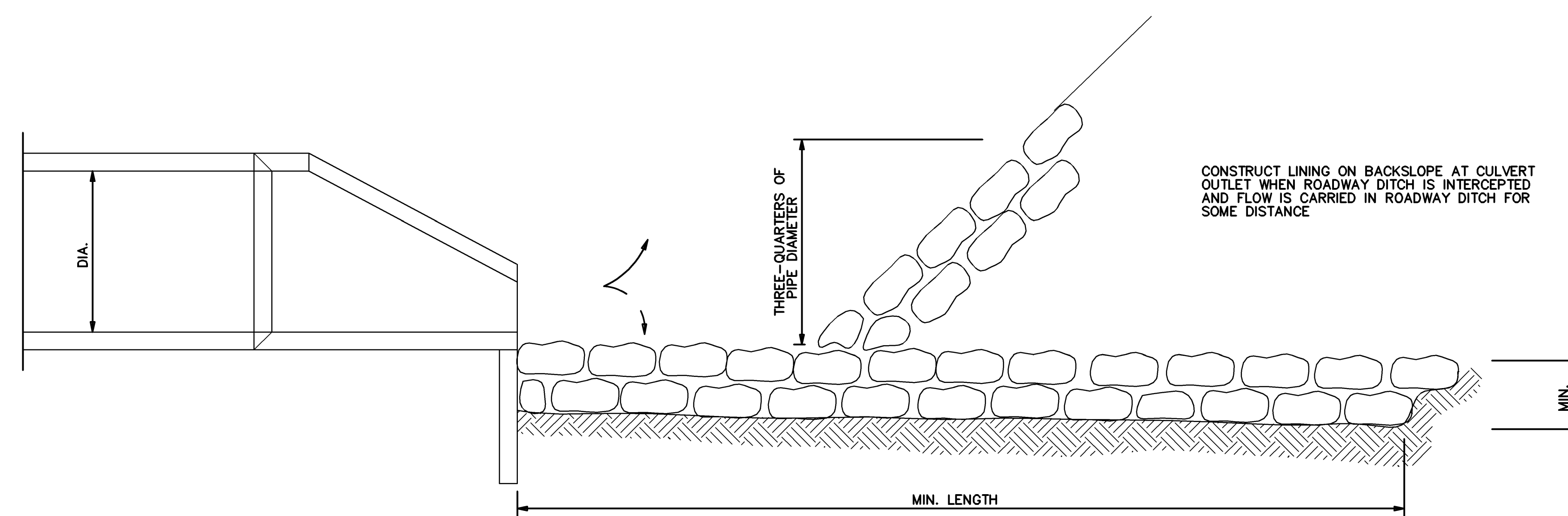
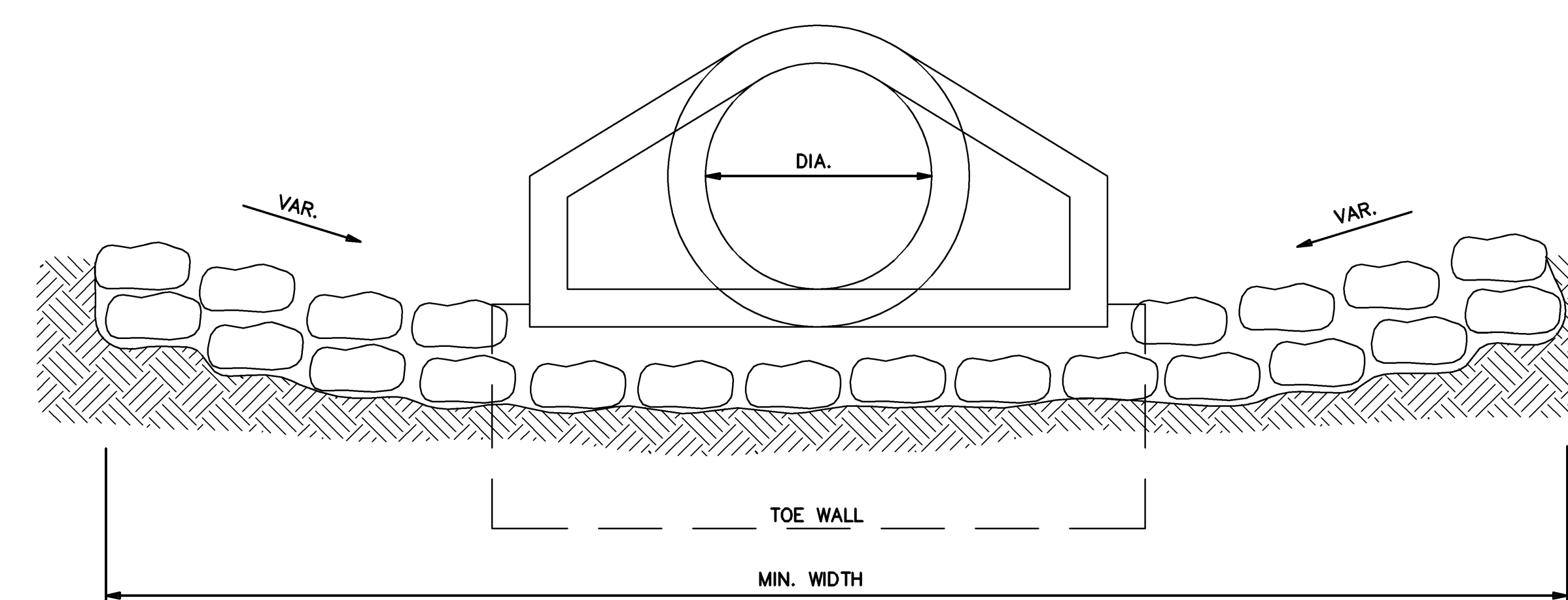


NOT AS BUILT



SIDE VIEW



END VIEW

ROCK LINING FOR CULVERT OUTLETS					
CULVERT SIZE, DIA. INCH.	MIN. DEPTH AND WIDTH FEET	MIN. LENGTH FEET	ROCK LINING CU. YD.	EQUIVALENT PIPE ARCH CULVERT (APPROX.)	EQUIVALENT CONC. BOX CULV. (APPROX.)
18	1 X 4	12	2		
24	1 X 6	14	3		2' X 1-1/2'
30	1 X 7	16	4	B-5	2' X 2'
36	1.5 X 9	18	9	B-6	3' X 2'
42	2 X 10	20	15	B-7	3' X 3'
48	2 X 12	20	18	B-8	4' X 3'
54	2 X 13.5	22	22	B-9	4' X 4'
60	2 X 15	25	28	B-10	5' X 4'
66	2 X 18	25	33	B-11	5' X 5'
72	2 X 20	30	44	B-12	5' X 6'
84	2.5 X 25	35	81		6' X 6'
96	2.5 X 30	40	111		7' X 7'
108	3 X 32	40	142		8' X 8'

GENERAL NOTE:  
THE DIMENSIONS SHOWN IN THE TABLE CAN BE APPLIED TO BOX OR ARCH CULVERTS OF EQUIVALENT WATERWAY AREA.

ROCK LINING FOR CULVERT OUTLET

LAND DISTURBANCE DETAILS

CENTERPOINT-KCS INTERMODAL CENTER

STATE OF MISSOURI  
ROBERT J. SUNTA  
E-25751  
PROFESSIONAL ENGINEER

Reviewed By: S.E.C.  
Designed By: R.J.S.  
Drafted By: J.W.W.  
Lutjen Project No.: 07168

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engineering  
landscape architecture

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**37**

Location: N:\Engineering\Richard Gebaur - 07165 & 07166\07166\07166-Submittal\071 - 07166.dwg

10-01-07 Prepared for Review.  
11-16-07 Issued for bid  
12-07-07 (A) Removed erosion control details, added riprap detail

R.J.S.  
R.J.S.  
R.J.S.

DATE P.E. INITIALS DESCRIPTION