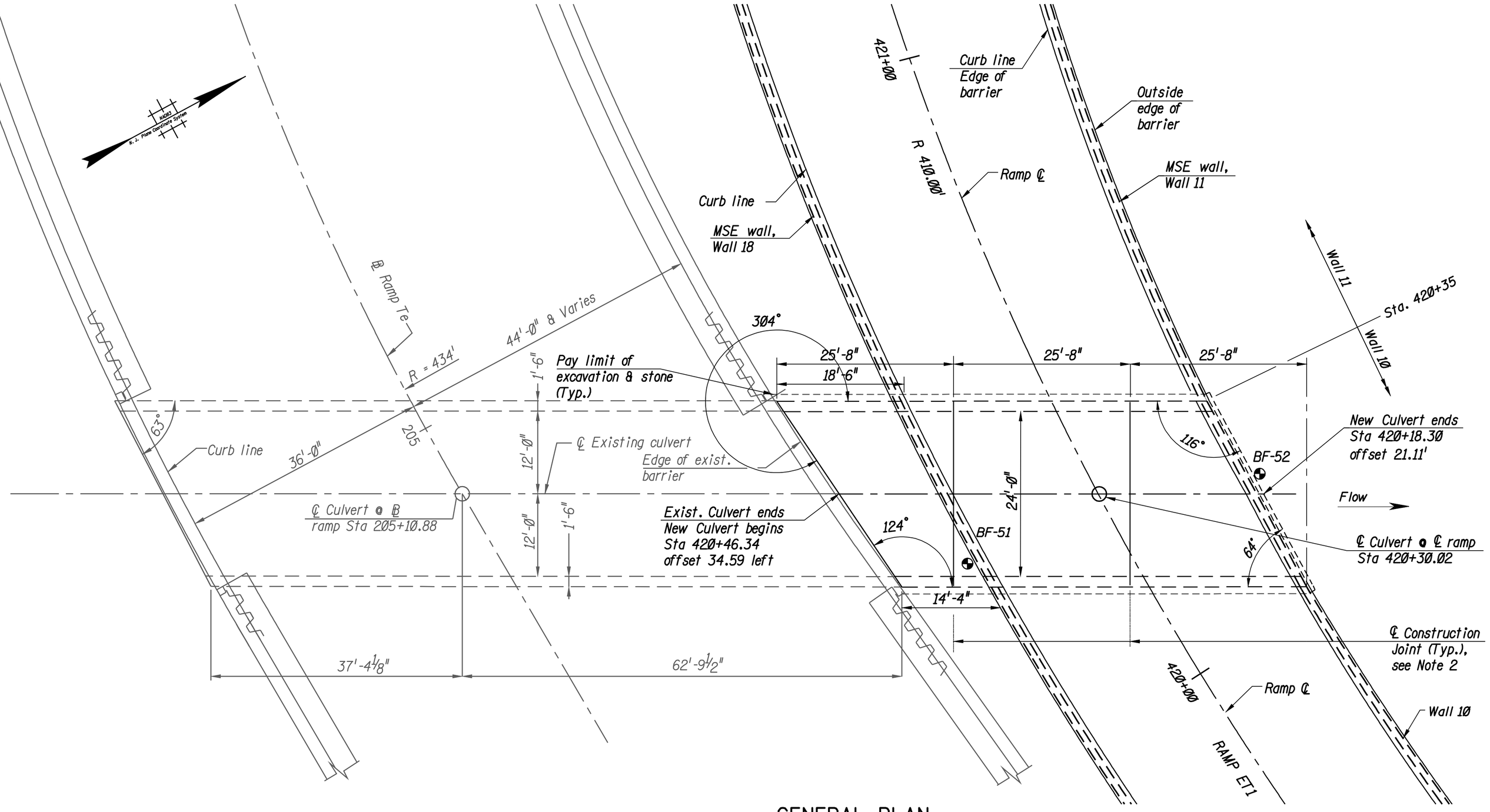
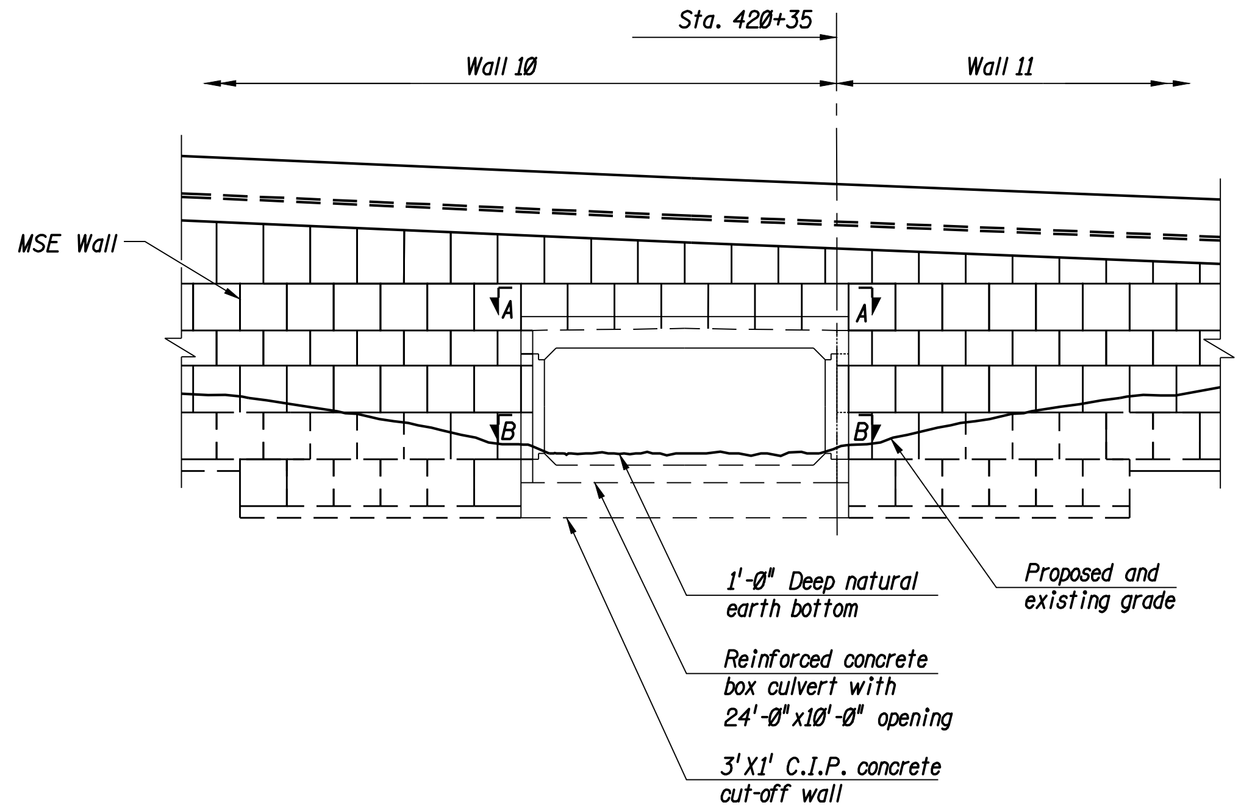


GENERAL PLAN



ELEVATION - CULVERT OPENING AT MSE WALLS

SUMMARY OF QUANTITIES - CAST-IN-PLACE CULVERT		
ITEM	UNIT	QUANTITY
Foundation Excavation	CY	320
Coarse Aggregate Layer	CY	140
Concrete in Culvert, Class B	CY	260
Reinforcement Steel	LBS	50,000
Reinforcement Steel, Epoxy Coated	LBS	31,000

SUMMARY OF QUANTITIES - PRECAST CULVERT		
ITEM	UNIT	QUANTITY
Foundation Excavation	CY	320
Coarse Aggregate Layer	CY	140
Concrete in Culvert, Class B	CY	260
Reinforcement Steel	LBS	50,000
Reinforcement Steel, Epoxy Coated	LBS	31,000
Precast Culvert, 24'x10'	LF	46

NOTES:

1. For Sections A-A and B-B, see Sheet No. C-2.
2. For Construction Joint Detail, see Sheet No. C-4.

GENERAL NOTES:

DESIGN SPECIFICATIONS:

2004 NEW JERSEY TURNPIKE AUTHORITY STANDARD SPECIFICATIONS, AND SUPPLEMENTARY SPECIFICIATIONS.
2007 NEW JERSEY TURNPIKE AUTHORITY DESIGN MANUAL (WITH UPDATES)

Design Method:

Load and resistance factor design

Live loadings:

LRFD design: HL-93 and NJDOT permit vehicle (200k)
allowable stress design: HS-25 and alt. military vehicle loading class w/20 kip wheel load.

Materials:

Concrete	Class
All Concrete	B

All culvert corners shall be chamfered 1"x1" unless specifically noted other wise.

All concrete cover for reinforcement shall be 3" unless noted otherwise.

Reinforcement Steel, Epoxy Coated
ASTM A 615, Grade 60, Yield Stress, Fy 60,000 psi

All reinforcement below grade shall be epoxy coated as per NJTA Standard Specifications.

Design strengths:

Concrete Compressive Strength, f'c
All Concrete 4,500 psi

Foundations:

Soil Bearing: 2.0 tsf
Borings: ⊕ denotes location and identification

Elevation datum:

North American Vertical Datum (NAVD 88)

Grid System:

NJ plane Coordinate System (NAD 83)

0 1/2 1 2 3 4
ORIGINAL SIZE IN INCHES

S-6
S-8

NEW JERSEY TURNPIKE AUTHORITY
ROADWAY NAME
PROJECT DESCRIPTION

CONTRACT NO.

CULVERT NO. XX, M.P. XX
GENERAL PLAN AND ELEVATION -1-

NAME OF CONSULTANT
ADDRESS
CERTIFICATE OF AUTHORIZATION NO. XXXXXXXXX

SCALE: 1" = 10'
DATE: MAY 2008

48
69

JOHN DOE
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. XXXXXXXXXXX

No.	DATE	REVISION

No.	DATE	SAMPLE PLAN REVISION
0	5-08	ORIGINAL SHEET

	BY	DATE
MADE	XXX	XX-XX-XX
TRACED	XXX	XX-XX-XX
CHECKED	XXX	XX-XX-XX
SUPERVISED	X.XXXX	

FILE NAME: XXXXX