

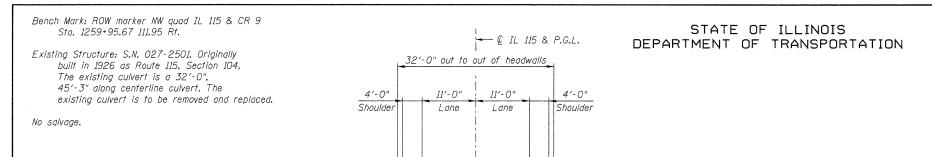
Drainage Aggregate (CA-18) full

length of both headwalls. To be

placed by Grading Contractor.

Cost included with Precast

Concrete Box Culvert.



ELEVATION

45°0′0

Lane

4'-0"-

Shoulder

Lane 4'-0"

PLAN

Shoulder

4'-04'

Typ.)

(V:H)

(V:H)

Limits of

Existing

Structure

Sta.1255+49.88 Elev. 694.77

© Structure

Elev. 694.45' ---

D.S. Invert Elev. 689.7

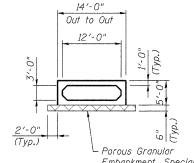
D.S. Flowline Elev. 689.95

CIP Apron-

Stone Riprap,-

Class A4 (Typ.)

Limits of Pourous Granular Embankment, Special



SECTION THRU BARREL

3" x 6" Formed Opening Embankment, Special

34" Drip Notch-DRAIN DETAIL

Up Stream

End Only

R = 6"

1'-0" _1'-0"

Bedding

Filter Fabric

TOTAL BILL OF MATERIAL

Unit	Total
Cu Yd	95
Cu Yd	34
Sq Yd	88
Sq Yd	88
Each	1
Cu Yd	199
Each	1
Each	2
Foot	25
Each	2
	Cu Yd Cu Yd Sq Yd Sq Yd Each Cu Yd Each Each Foot

GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See special provision.
- 2. Reinforcement bars designated (E) shall be epoxy coated.
- 3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 4. Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.
- 5. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place. 6. Class SI Concrete shall be used for cast-in-place concrete.
- 7. Exposed edges shall be beveled $\frac{3}{4}$ ".
- 8. For backfilling and embankment see standard specifications.
- 9. Precast End Sections are not allowed.
- 10. All construction joints shall be bonded.
- 11. The cast-in-place end section shall be poured monolithically with the wingwall.

H.W. Elev. 694.8' (50 yr.)

EXPIRATION DATE 11-30-2010 DATE 01\13\2010

Range O9F - 3rd, PM

LOCATION SKETCH

GENERAL PLAN AND ELEVATION ILLINOIS 115 OVER DRAINAGE DITCH F.A.P. ROUTE 796 SEC. NO. 104 I

FORD COUNTY STATION 1255+49.88 STRUCTURE NO. 027-2551

Drainage Area = 0.52 mi² (P) & (E) Low Grade Elev. 694.18 ft. © Sta. 1258+49.88 Nat. Head - Ft. Headwater El. H.W.E. Exist. Prop. Exist. Prop. 694.1 0.5 0.4 694.6 694.5 7. 0 Opening Sq. Ft. C.F.S. Exist. Prop. 333 30 36 573 30 36

-Elev. 694.65'

U.S. Invert Elev. 689.9

U.S. Flowline Elev. 690.15'

-3" ∮ Weep Holes at ±7′-0" Cts.

or Min. One Per Section

Culvert

Limits of

Existing

(V:H)

4'-458

 $A \not\bowtie$

Structure

3" x 6"

Opening

CIP Apron

Formed

(Typ.)

-3" ϕ Weep Hole at Center of Wingwall (Typ.)

4%

- € IL 115 & P.G.L.

694.8	0.2	0.1	695.0	694.9	Design	115	DS
695.0	0.2	0.1	695.2	695.1	Scour	03	03
-	-	-	-	-	Elev.	686.9	686 7
695.2	0.1	0.1	695.3	695.3	Elev.	000.5	000.7

1:2 (V:H)

benesch

alfred benesch & company Engineers • Surveyors • Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60801 312-565-0450 Job # 3938.02

SHEET NO. S1	F.A.P. RTE.	SECTION					COUNTY	TOTAL SHEETS		SHEET NO.
511EE7 110. 31	796	104	I &	105 BR-	1		FORD	51		37
SHEETS S7							CONTRACT	NO.	66	3848
	FED. R	OAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT			

DESIGNED CHECKED PT DRAWN CHECKED -MFB

WATERWAY INFORMATION - DISTRICT APPROVED

Flood

Design

Overtopping Max. Calc.

(along € roadway)

INDEX OF SHEETS

S1 General Plan and Elevation

S3 Cast In Place Box Details S4 Cast In Place Apron Details

S7 Soil Boring Logs

S2 Precast Concrete Box Section

S5 Section Through Box Culvert S6 Grating for Culverts with Wingwalls

STATION 1255+49.88

BUILT 20__ BY

STATE OF ILLINOIS

F.A.P. RT. 796 SEC. 104 I

LOADING HS20 STR. NO. 027-2551

NAME PLATE

See Std. 515001

-0.16%

PROFILE GRADE