



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

December 10, 2014

CALL NO. 100
CONTRACT ID NO. 141078
Addendum # 2

Subject: Letcher County, HSIP 9010 (162)
Letting December 12, 2014

(1) Revised - Plan Sheets - Drawing #25358 Sheet S001 and
Drawing #25359 Sheet S001

Proposal revisions are available at
<http://transportation.ky.gov/Construction-Procurement>

Plan Revisions are available at: <http://www.lynnimaging.com/kytransportation/>

If you have any questions, please contact us at (502) 564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Diana Castle Radcliffe".

Diana Radcliffe
Director
Division of Construction Procurement

RG:jj

Enclosures



An Equal Opportunity Employer M/F/D

FILE NAME: \\design\files\specifications\...
 USERNAME: \\pilot\tech\by...
 DATE: 2011-01-11
 SHEET LOCATION:

Sta. 230+31.497 Stream Line
 = Sta. 7+020.021(m) Stream Line
 = Sta 51+175.31(m) 98.82(m) Rt. US119
 (See Roadway Plans)

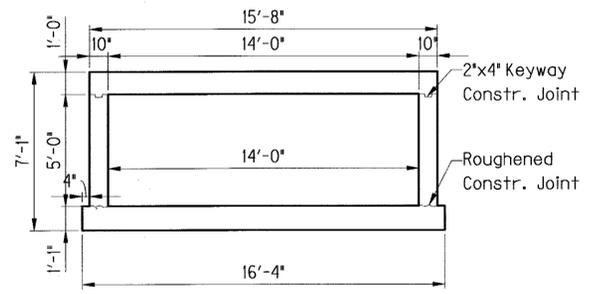
Sta. 229+65.88 Stream Line
 = Sta. 7+000(m) Stream Line
 = Sta 51+169.705(m) 114.515(m) Rt. US119
 (See Roadway Plans)

Sta. 229+12.497 Stream Line
 = Sta. 6+983.75(m) Stream Line
 = Sta 51+179.80(m) 127.31(m) Rt. US119
 (See Roadway Plans)

PLAN

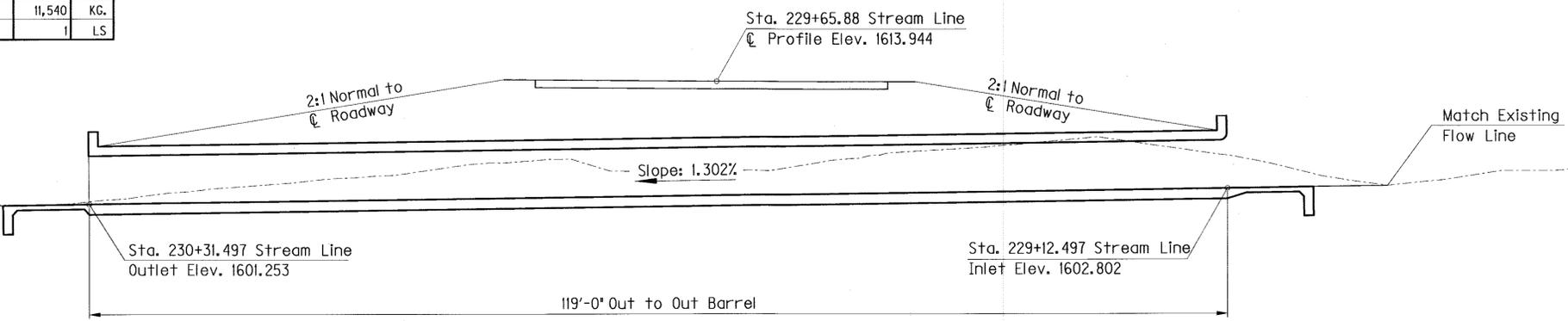
14'-0" x 5'-0" x 119'-0" R.C.B.C. UNYIELDING FOUNDATION - 49°54'55" SKEW RT.
 -ROADWAY OVER-
 24' PAVEMENT 2-4' SHOULDERS
 2:1 FILL SLOPES HS 25 LOADING
 SEE EMBANKMENT PLANS

TYPICAL SECTION THROUGH BARREL



SCALE: 1/4" = 1'-0"

ELEVATION ALONG C BOX CULVERT



ESTIMATE OF QUANTITIES		
Class 'AA' Concrete	215	C.Y.
Reinforcement Steel	25,441	LBS.
Foundation Preparation	1	LS
METRIC		
Class 'AA' Concrete	164.4	C.M.
Reinforcement Steel	11,540	KG.
Foundation Preparation	1	LS

SPECIFICATIONS:
 The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with Current Supplements, shall apply to this Project

DESIGN LOAD:
 Culvert slabs are designed for flexure in accordance with the AASHTO specifications, Current Edition, with Current Interims. The effective weight of Fill Material is 120 pounds per cubic foot and the Live Load is HS 25.

DESIGN METHOD:
 All Reinforced Concrete members are designed by the Load Factor Method as specified in the Current AASHTO Specifications.

DESIGN STRESSES:
 For Reinforcement $F_y=60,000$ psi; For concrete $F'_c=3,500$ psi.

CONCRETE:
 Class "AA" CONCRETE SHALL BE USED THROUGHOUT

REINFORCEMENT:
 Dimensions shown from the face of concrete to bars are clear distances unless otherwise shown. Spacing of bars is from center to center of bars.

BEVELED EDGES:
 All exposed edges shall be beveled $7/8$ " unless otherwise shown.

CONSTRUCTION JOINTS:
 Vertical Construction Joints shall be located in the field, except that no construction joint shall be located in the barrel within six feet of the ends of the culvert.

FOOTING PRESSURE:
 Foundation materials are required to resist maximum Bearing Pressure of 1,300 psf.

SPECIAL NOTES:
 STENCILS FOR STRUCTURES: BGX-006-08
 GEOTECHNICAL LEGEND: BGX-012-02

NOTE:
 If solid rock is encountered above the bottom of the bottom slab, it shall be removed to 8" below the bottom of the bottom slab and replaced with Compacted Crushed Stone per Section 805 of the Kentucky Standard Specifications for Road and Bridge Construction (Current Edition). Cost of this work is to be incidental to the Unit Price Bid for Structural Excavation, Unclassified.

INCIDENTAL MATERIALS: The structure is to be completed in accordance with the plans and specifications. Materials or labor, not otherwise specified, are to be considered incidental to the contract.

SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to the Consultant. If any changes in the design plans are proposed by a fabricator or supplier, submit those changes to the Consultant. Submit all final, approved shop drawings to the Division of Structural Design.



REVISION		DATE
DATE:	DESIGNED BY: JJK	CHECKED BY: BLM
	DETAILED BY: RWH	
Commonwealth of Kentucky		
DEPARTMENT OF HIGHWAYS		
COUNTY		
LETCHER		
ROUTE	CROSSING	
US 119	BROWNS BRANCH	
LAYOUT STA. 229 + 65		
ITEM NUMBER	PREPARED BY	SHEET NO.
12-311.10	TETRA TECH, INC.	1
		DRAWING NO.
		25359

SPECIFICATIONS:
The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with Current Supplements, shall apply to this Project

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= Sta. 7+020.021(m) Stream Line
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(See Roadway Plans)

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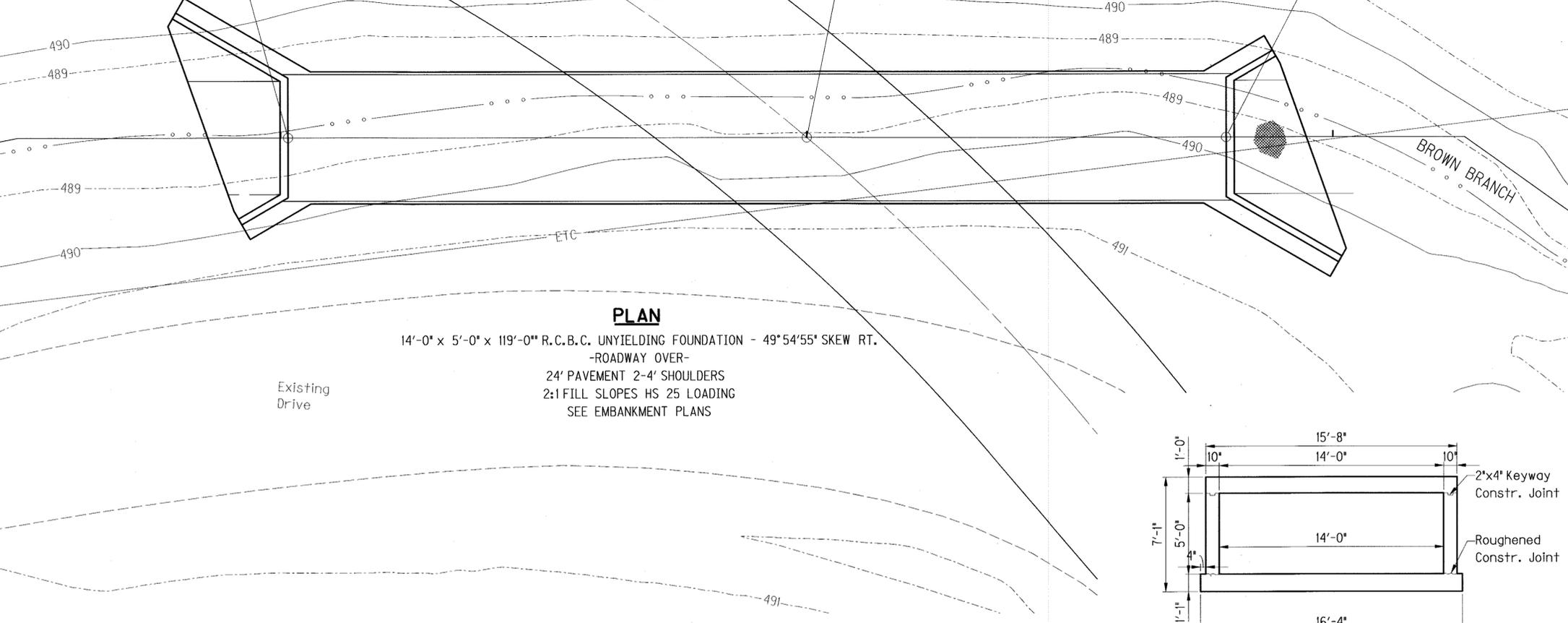
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= Sta. 6+983.75(m) Stream Line
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(See Roadway Plans)

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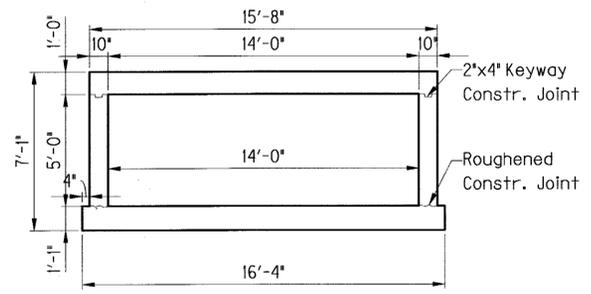
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DATE: 12/9/14

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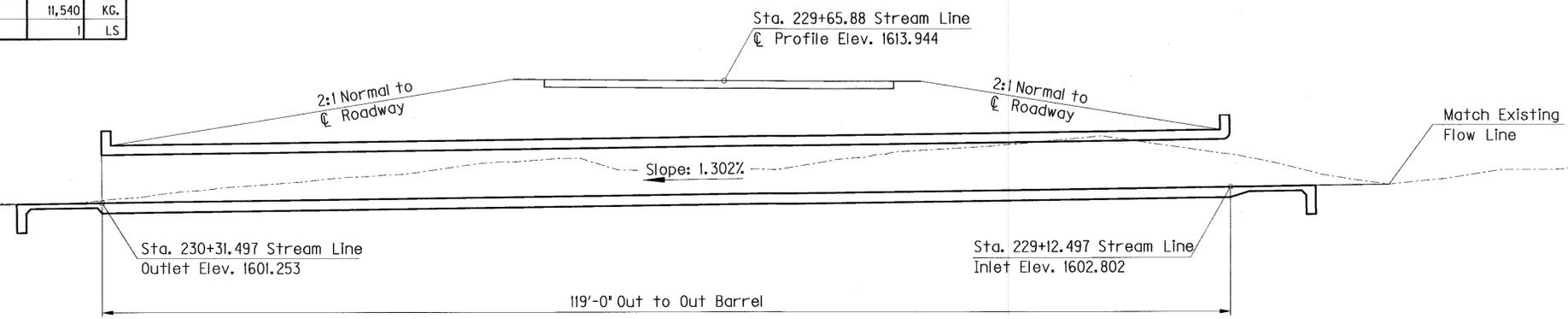


PLAN
14'-0" x 5'-0" x 119'-0" R.C.B.C. UNYIELDING FOUNDATION - 49° 54' 55" SKEW RT.
-ROADWAY OVER-
24' PAVEMENT 2-4' SHOULDERS
2:1 FILL SLOPES HS 25 LOADING
SEE EMBANKMENT PLANS



TYPICAL SECTION THROUGH BARREL
SCALE: $\frac{1}{4}" = 1'-0"$

ESTIMATE OF QUANTITIES		
Class "AA" Concrete	215	C.Y.
Reinforcement Steel	25,441	LBS.
Foundation Preparation	1	LS
METRIC		
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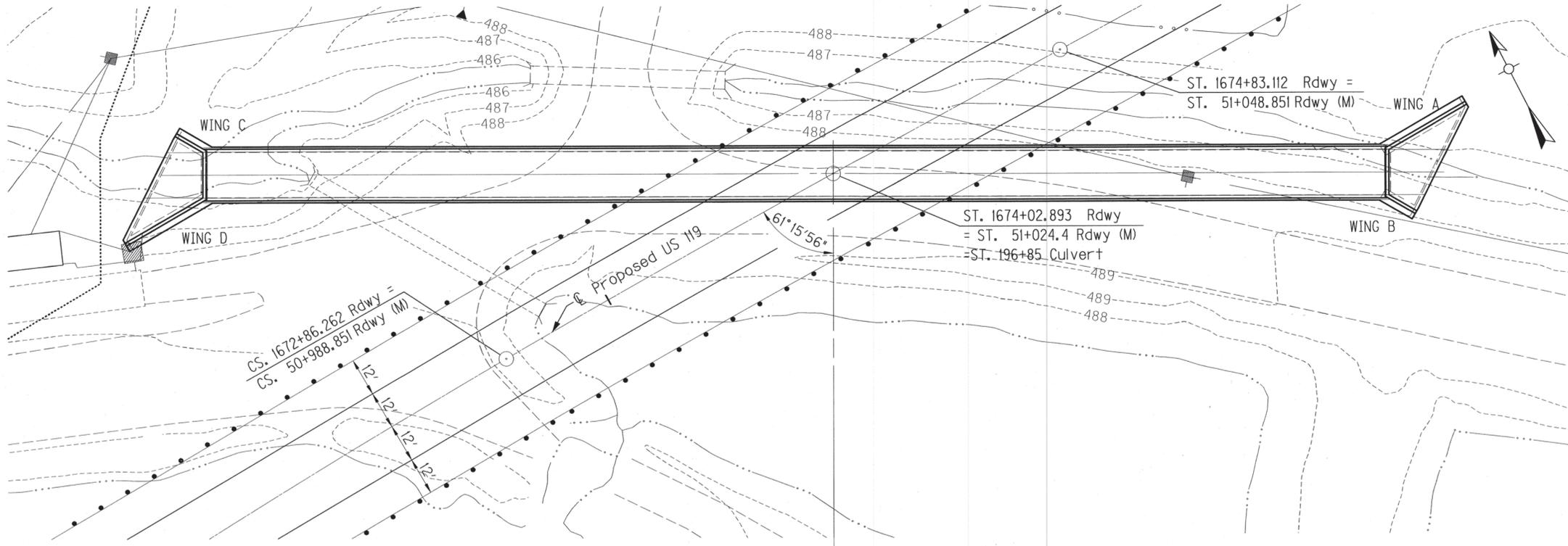


ELEVATION ALONG C BOX CULVERT



REVISION		DATE
DATE:	DESIGNED BY: JJK	CHECKED BY: BLM
	DETAILED BY: RWH	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY LETCHER		
ROUTE US 119	CROSSING BROWNS BRANCH	
LAYOUT STA. 229 + 65		
ITEM NUMBER	PREPARED BY	SHEET NO.
12-311.10	TETRA TECH, INC.	1
		DRAWING NO. 25359

FILE NAME: \\design\files\specifications\\$\$\$
 USERNAME: \\plotted\by\\$\$\$
 DATE: \\DATE\\$\$\$
 SHEET LOCATION:

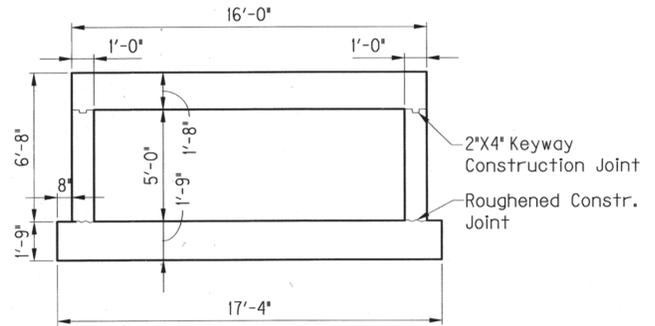


Bid Code	ESTIMATE OF QUANTITIES		
24693ED	Box Culvert - 14 FT x 5 FT	429.46	LF
8003	Foundation Preparation	1	LS

LAYOUT

14'-0" x 5'-0" x 368'-5 1/8" R.C.B.C. UNYIELDING FOUNDATION 61°15'35" SKEW LEFT
 -ROADWAY OVER-
 24' PAVEMENT, 2-12' SHOULDERS
 2:1 FILL SLOPES HS25 LOADING
 SEE EMBANKMENT PLANS

BOX CULVERT 14 FT x 5 FT: The unit price for 14' x 5' culvert includes all labor and materials to construct the culvert paid for per Linear Foot. No direct payment will be made for Class "A" Concrete or Steel Reinforcement.



TYPICAL SECTION

SCALE: 1/4" = 1'-0"

SPECIFICATIONS:
 The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with current supplementals shall apply to this Project

DESIGN LOAD:
 Culvert slabs are designed for flexure in accordance with the AASHTO specifications, Current Edition with current interim's. The effective weight of Fill Material is 120 pounds per cubic foot and the Live Load is HS 25.

DESIGN METHOD:
 All Reinforced Concrete members are designed by the Load Factor Method as specified in the Current AASHTO Specifications.

DESIGN STRESSES:
 For Reinforcement Fy=60,000 psi; For Class "A" concrete F'c=4,500 psi.

CONCRETE:
 Class "AA" CONCRETE SHALL BE USED THROUGHOUT

REINFORCEMENT:
 Dimensions shown from the face of concrete to Bars are clear distances unless otherwise shown. Spacing of Bars is from Center to Center of Bars.

BEVELED EDGES:
 All exposed edges shall be beveled 1/8" unless otherwise shown.

CONSTRUCTION JOINTS:
 Vertical Construction Joints shall be located in the field, except that no construction joint shall be located in the barrel within six feet of the ends of the culvert.

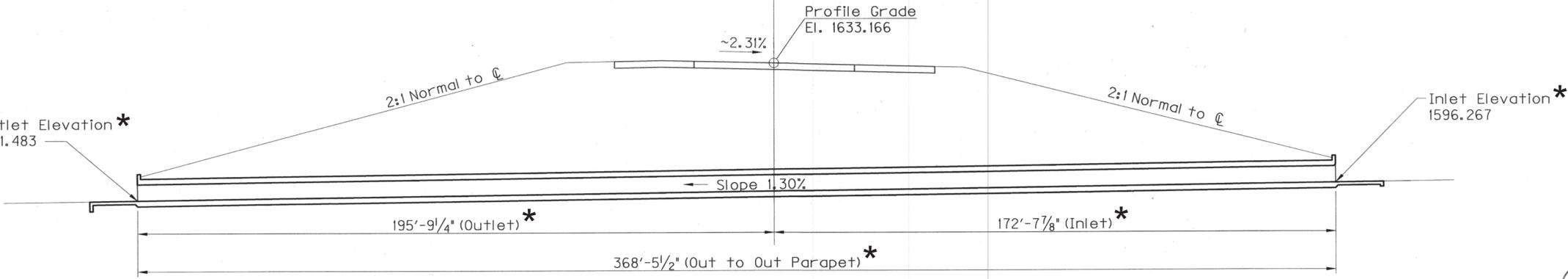
FOOTING PRESSURE:
 Foundation materials are required to resist maximum Bearing Pressure of 18,000 psf.

SPECIAL NOTES:
 STENCILS FOR STRUCTURES

STANDARD DRAWINGS:
 BGX-006-09

NOTE:
 If solid rock is encountered above the bottom of the bottom slab, it shall be removed 8" below the bottom slab and replaced with Compacted Crushed Limestone. Cost of this work is to be incidental to the Unit Price Bid for Structural Excavation, Unclassified.

INCIDENTAL MATERIALS: The structure is to be completed in accordance with the plans and specifications. Materials or labor, not otherwise specified, are to be considered incidental to the contract.



ELEVATION ALONG CULVERT

* CONTRARY TO STRUCTURE PLANS, SEE SHEET R55 FOR THE TOTAL STRUCTURE LENGTH, LENGTHS LEFT AND RIGHT OF CENTERLINE, AND INLET AND OUTLET ELEVATIONS.



REVISION		DATE
DATE:	CHECKED BY	
DESIGNED BY: JJK	BLM	
DETAILED BY: RWH	BLM	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY LETCHER		
ROUTE US 119	CROSSING POOR FORK OF CUMBERLAND RIVER	
LAYOUT STA. 196+85		
ITEM NUMBER	PREPARED BY	SHEET NO.
12-311.10	Division of Bridge Design	1
	TETRA TECH, INC.	DRAWING NO. 25358

SPECIFICATIONS:
The Kentucky Department Of Transportation Standard Specifications for Road and Bridge Construction, Current Edition, with current supplementals shall apply to this Project

DESIGN LOAD:
Culvert slabs are designed for flexure in accordance with the AASHTO specifications, Current Edition with current interim's. The effective weight of Fill Material is 120 pounds per cubic foot and the Live Load is HS 25.

DESIGN METHOD:
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DESIGN STRESSES:
For Reinforcement $F_y=60,000$ psi; For Class "A" concrete $F'_c=4,500$ psi.

CONCRETE:
Class "AA" CONCRETE SHALL BE USED THROUGHOUT

REINFORCEMENT:
Dimensions shown from the face of concrete to Bars are clear distances unless otherwise shown. Spacing of Bars is from Center to Center of Bars.

BEVELED EDGES:
All exposed edges shall be beveled $\frac{1}{8}$ " unless otherwise shown.

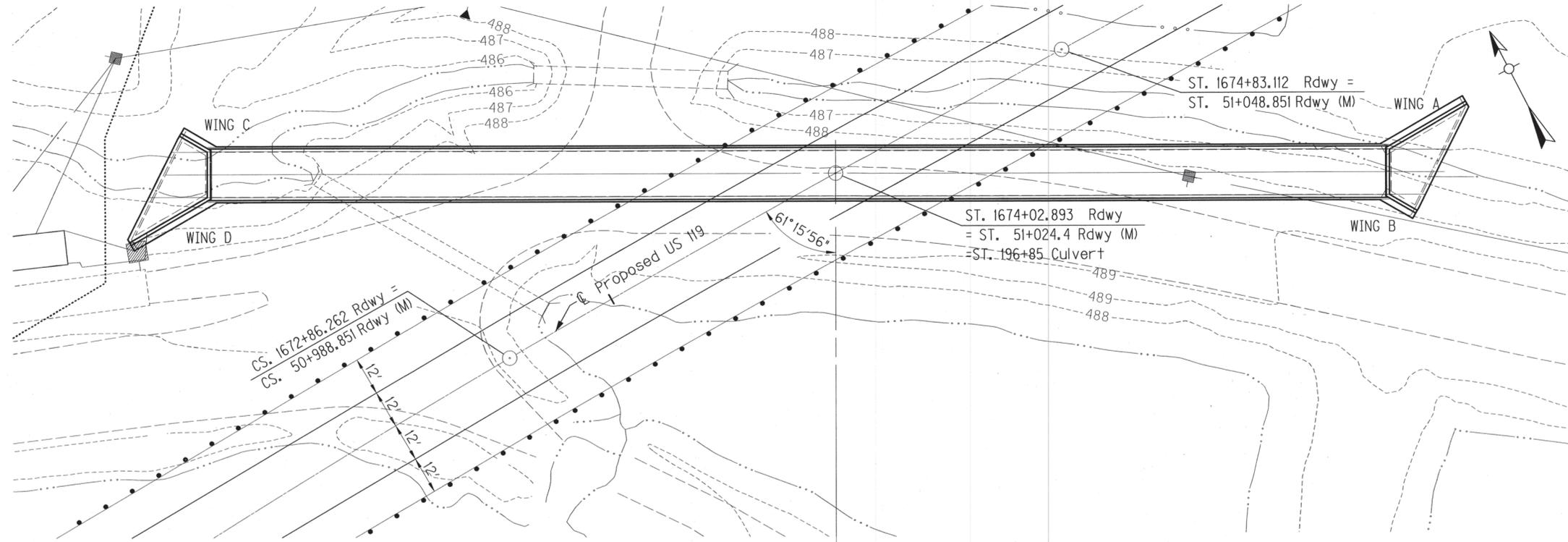
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SPECIAL NOTES: STANDARD DRAWINGS
BGX-006-09

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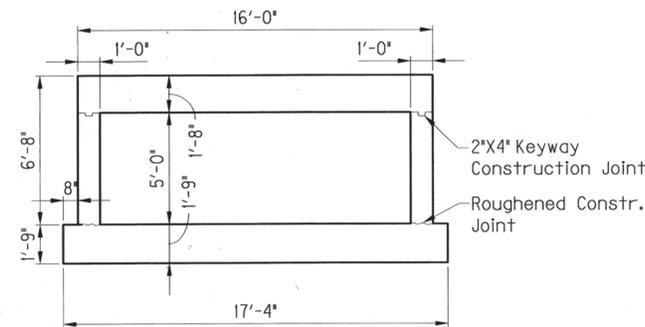
INCIDENTAL MATERIALS: The structure is to be completed in accordance with the plans and specifications. Materials or labor, not otherwise specified, are to be considered incidental to the contract.



Bid Code	ESTIMATE OF QUANTITIES		
24693ED	Box Culvert - 14 FT x 5 FT	429.46	LF
8003	Foundation Preparation	1	LS

LAYOUT

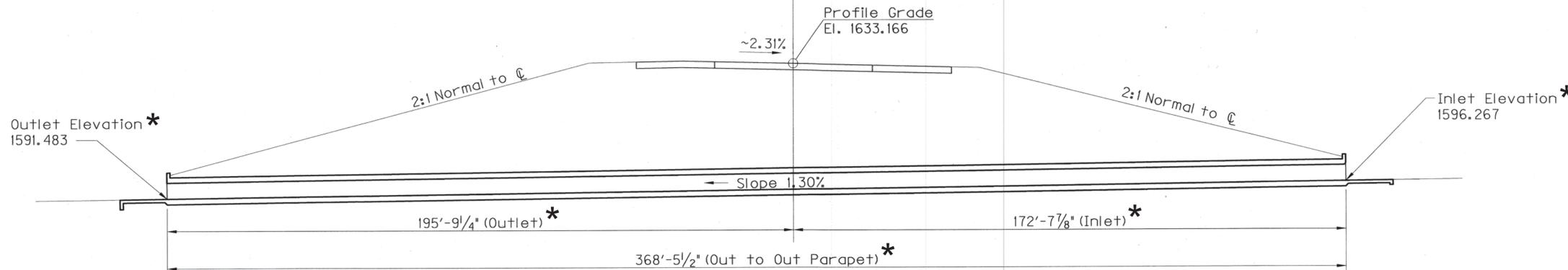
14'-0" x 5'-0" x 368'-5 $\frac{1}{8}$ " R.C.B.C. UNYIELDING FOUNDATION 61°15'35" SKEW LEFT
-ROADWAY OVER-
24' PAVEMENT, 2-12' SHOULDERS
2:1 FILL SLOPES HS25 LOADING
SEE EMBANKMENT PLANS



TYPICAL SECTION

SCALE: 1/4" = 1'-0"

BOX CULVERT 14 FT x 5 FT: The unit price for 14' x 5' culvert includes all labor and materials to construct the culvert paid for per Linear Foot. No direct payment will be made for Class "A" Concrete or Steel Reinforcement.



ELEVATION ALONG CULVERT

* CONTRARY TO STRUCTURE PLANS, SEE SHEET R55 FOR THE TOTAL STRUCTURE LENGTH, LENGTHS LEFT AND RIGHT OF CENTERLINE, AND INLET AND OUTLET ELEVATIONS.



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FILE NAME: \$\$\$designsfiles\$specifications\$\$\$
USER NAME: \$\$\$plottedby\$\$\$
DATE: \$\$\$DATE\$\$\$
SHEET LOCATION: