CALL NO. 300

CONTRACT ID. 121333

JEFFERSON COUNTY

FED/STATE PROJECT NUMBER JL04 056 0265 013-014

DESCRIPTION GENE SNYDER FREEWAY (I-265)

WORK TYPE SOUND BARRIER WALL

PRIMARY COMPLETION DATE 11/15/2012

LETTING DATE: July 13, 2012

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 13, 2012. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

ROAD PLANS

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I

SCOPE OF WORK

CONTRACT ID - 121333 ADMINISTRATIVE DISTRICT - 05

PROJECT(S) IDENTIFICATION AND DESCRIPTION:

COUNTY - JEFFERSON PCN - DE05602651233
JL04 056 0265 013-014
GENE SNYDER FREEWAY (I-265) CONSTRUCT SOUND BARRIER ALONG SOUTH SIDE OF GENE SNYDER FRWY BETWEEN MILEPOINTS 13.600 AND 14.000, APPROX. 2100 FEET, A DISTANCE OF 0.40 MILES. SOUND BARRIER WALL. SYP NO. 05-08613.00.
GEOGRAPHIC COORDINATES LATITUDE 38^07'03" LONGITUDE 85^38'30"

COMPLETION DATE(S):
COMPLETION DATE - November 15, 2012
APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/contract)

The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor is advised that the Underground Facility Damage Protection Act of 1994, became law January 1, 1995. It is the contractor's responsibility to determine the impact of the act regarding this project, and take all steps necessary to be in compliance with the provision of the act.

SPECIAL NOTE FOR PIPE INSPECTION

Contrary to Section 701.03.08 of the 2012 Standard Specifications for Road and Bridge Construction and Kentucky Method 64-114, certification by the Kentucky Transportation Center for prequalified Contractors to perform laser/video inspection is not required on this contract. It will continue to be a requirement for the Contractor performing any laser/video pipe inspection to be prequalified for this specialized item with the Kentucky Transportation Cabinet-Division of Construction Procurement.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by KRS 14A.9-010 to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under KRS 14A.9-030 unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in KRS 14A.9-010, the foreign entity should identify the applicable exception. Foreign entity is defined within KRS 14A.1-070.

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at https://secure.kentucky.gov/sos/ftbr/welcome.aspx .

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this

contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004. (See attachment)

10/18/2011

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

NATIONAL HIGHWAY

Be advised this project is on the NATIONAL HIGHWAY SYSTEM.

PROJECT TRAFFIC COORDINATOR (PTC)

Be advised this project is a significant project pursuant to section 112.03.12.

JEFFERSON COUNTY
Install Sound Barrier Wall on the South Side of I-265 from MP 13.6 to MP 14.0 (including portion of Smyrna Pkwy ramp)
Item No. 5-8613.00
JL04 056 0265 013-014
EMARS: 8475701 D

TABLE OF CONTENTS

SOUND BARRIER WALL PROJECT DESCRIPTION

JL04 056 0265 013-014
EMARS: 8475701 D

The purpose of this project is to construct a sound barrier wall on the south side of I-265 (Gene Snyder Parkway) from mile point 13.6 to mile point 14.0, including a portion of the Smyrna Pkwy ramp, as shown on the plan set. The project includes the following items:

- Installation of sound barrier wall which includes the design of the sound barrier wall and design of the foundation for the wall; and
- Construction of the ditch and drainage structures; and
- Removing and resetting of guardrail and guardrail treatment if needed for access; and
- Maintaining and controlling traffic; and
- Other miscellaneous items defined in the plans, notes, and estimated bid item quantities.

GENERAL NOTES

JL04 056 0265 013-014
EMARS: 8475701 D

EXISTING STORM DRAINAGE FACILITIES AND UNDERGROUND UTILITIES:

The contractor shall use all possible care in their operations to avoid damaging existing pipes and any underground existing utilities. They shall be responsible for any damages to the above mentioned items and shall repair or restore at their own expense any items damaged as the result of their operations.

The existing storm drainage facilities and underground utilities shown on the plans are based on record drawings provided by the respective agencies. It is the responsibility of the contractor to verify the accuracy (both location and elevation) of the facilities prior to fabrication of the sounds wall panels due to the potential impact with the proposed drilled shafts. This work is incidental to "Site Preparation."

OVERHEAD UTILITIES:

The minimum vertical clearance of existing overhead utilities should be 18 feet on state roads and 24 feet when crossing interstate or other limited access highway roadways and ramps. Clearance must also adhere to the requirements of the National Electric Safety Code, American Standards Institute, and Institute of Electrical and Electronic Engineers, Inc. Any questions concerning working around the existing facilities in the area can be addressed at the preconstruction meeting.

UTILITIES (HAZARDOUS OR FLAMMABLE MATERIAL):

The contractor is advised to exercise caution in his operations in areas of gas line or other lines carrying hazardous material.

CLEARING AND GRUBBING:

Contrary to Section 202 of the Standard Specifications, no direct payment will be allowed for Clearing and Grubbing on this project.

CONSTRUCTION MATERIAL DISPOSAL:

All material that is required to be removed shall be disposed of off the Right-of-Way at sites acquired by the contractor and approved by the engineer, at no additional cost to the department, per section 204.03.08 of current KYTC Standard Specifications.

EXISTING SIGNS:

It is the contractor's responsibility to reset any signs inside the project limits that are affected by the project. This includes moving signs, adjusting the height, etc. This work will be directed by the engineer and considered incidental to the project.

AVOIDANCE OF UNDERGROUND TRAFFIC DEVICES:

It is the contractor's responsibility to coordinate with Central Office traffic through the engineer to determine where underground traffic control devices are located for the project. Locations of existing traffic devices may not be accurately reflected on the plans and should be addressed before beginning construction. The contractor shall be responsible for any damages to the above mentioned items and shall repair or restore at their own expense any items damaged as a result of their operations.

BEFORE YOU DIG:

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

GEOTECHNICAL NOTES

JL04 056 0265 013-014
EMARS: 8475701 D

GEOTECHNICAL ENGINEERING STRUCTURE FOUNDATION REPORT:

The following twenty five pages encompass the geotechnical report as submitted to the Project Manager. It shall be noted that the report was compiled prior to a final change in the project alignment. As a result, the stationing on the Geotechnical Report and the Final Project Alignment has a discrepancy of approximately five feet from Station 118+00 to the end of the project. Due to the size of the discrepancy and the characteristics of the rock profile at this location, the information in the report is still considered relevant to the design.

S-004-2012

cc: K. Sandefur
R. Powell
S. Bertke
B. Meade
T. Wright
T. Layson
B. Farley

M E M O R A N D U M

TO: Mark Hite, P.E.
Division of Structural Design

FROM: Bart Asher, P.E.
Geotechnical Branch Manager

BY: Michael Carpenter, P.E. MC
Geotechnical Branch

DATE: March 8, 2012

SUBJECT: **Jefferson County**
I-265 at Smyrna Parkway
JL04 056 0265 013-014 01D
MARS# 8475701D
Noise Barrier Wall; (S-004-2012)
Item No. 05-8613.00
Geotechnical Engineering Structure Foundation Report

1.0 Introduction

This abbreviated geotechnical engineering structural foundation report addresses the geotechnical issues for the proposed design and construction of a sound barrier along the south side of the Gene Snyder Freeway between mileposts 13.6 and 14.0. This wall will be approximately 2100 feet long. The structure is located in the Brooks (#961) Geologic Quadrangle. The geologic mapping indicates that the bedrock at this site is part of the Jefferson Limestone Formation.

2.0 Subsurface Conditions

Twenty three borings were completed for this wall. Nine of the holes were rod soundings, seven were mechanical rockline soundings, three were soil sample and rock core holes, and four were rock core holes.

The overburden depths for the wall varied as shown below:

Approximate Station	Soil Overburden Depth
100+00 to 103+60	10 to 5 feet
103+60 to 118+50	< 5 feet
118+50 to 121+20	5 feet to 27 feet**
**Presence of boulders in fill may result in sounding refusal above bedrock	

Soil samples were determined to consist of lean clay, clayey sands and clayey gravel. Using the Unified Classification System they classified as CL, SC, and GC. The cores revealed gray limestone with shale laminations. Karst features such as drainage features, honeycombed structure, and calcite

filled voids were noted in all core samples and in the field. KY RQD and Standard RQD ranged from 0 % to 91 % and 0 % to 100%, respectively. The percent of core recovery was 80% to 100%. At approximate wall station 118+50 overburden transitions to fill material that contains limestone boulders.

3.0 Engineering Analysis

Drilled shafts are proposed for the noise barrier wall foundations. The shafts will be founded into bedrock. The Idealized Soil and Bedrock Profile Sheet and the Drilled Shaft Axial Tables are attached. An alternative foundation type of spreading footings founded on soil or bedrock is possible from approximate stations 100+00 through 118+50. Spread footings beyond station 118+50 are not recommended due to the proximity of the embankment side slope. Because of the structure type and pre-existing site conditions embankment stability and settlement analyses were not required.

4.0 Foundation Recommendations

Stations 100+00 through 103+60

4.1 Drilled shafts with the highest recommended tip embedded a minimum of 2 feet into sound bedrock. Lower tip elevations may be necessary in order to satisfy lateral capacity or other structural requirements.

4.2 **(Alternate Foundation)** Use a spread footing bearing on soil or granular replacement. The depth of granular material replacement required may be determined from the attached "Nominal Bearing Resistance at the Bottom of the Footing vs. Granular Replacement Depth for Various Footing Widths" chart. Size the footings at the service limit state using a resistance factor of 0.33. For checking strength and extreme limit states use resistance factors of 0.45 and 1.0 for the strength and extreme limit state analyses respectively.

Stations 103+60 through 118+50

4.3 Drilled shafts with the highest recommended tip embedded a minimum of 2 feet into sound bedrock. Lower tip elevations may be necessary in order to satisfy lateral capacity or other structural requirements.

4.4 **(Alternate Foundation)** Use a spread footing bearing on sound bedrock. Size the footing at service limit state using a presumptive factored nominal bearing resistance of 20 ksf. Contact this branch for a more detailed analysis if capacity issues arise.

Stations 118+60 through 121+20

4.5 Drilled shafts with the highest recommended tip embedded a minimum of 2 feet into sound bedrock. Lower tip elevations may be necessary in order to satisfy lateral capacity or other structural requirements.

5.0 General Recommendations

5.1 The drilled shafts shall be constructed in accordance with the Special Note for Drilled Shafts, current edition.

5.2 Perform lateral load analyses using the geotechnical parameters provided in the attached Idealized Soil and Bedrock Profile. These parameters may be used to perform analyses using LPILE Plus. Some of the parameters may not be required to be input, depending on the version of the program being used.

5.3 Evaluate the allowable axial capacities using the attached Drilled Shaft Axial Capacity Tables.

5.4 From station 103+00 through 118+50: Overburden soils shall be neglected for lateral support or axial resistance of drilled shafts. Permanent casing is not required. The contractor may elect to use temporary casing in deeper soil areas. Temporary casing may be omitted if the contractor can demonstrate the ability to maintain an open excavation without collapse of the side walls, fall back of material into the excavation, or fall back into and contamination of freshly placed concrete. In shallow overburden unsupported excavation or some other shoring method may be utilized at the contractor's discretion.

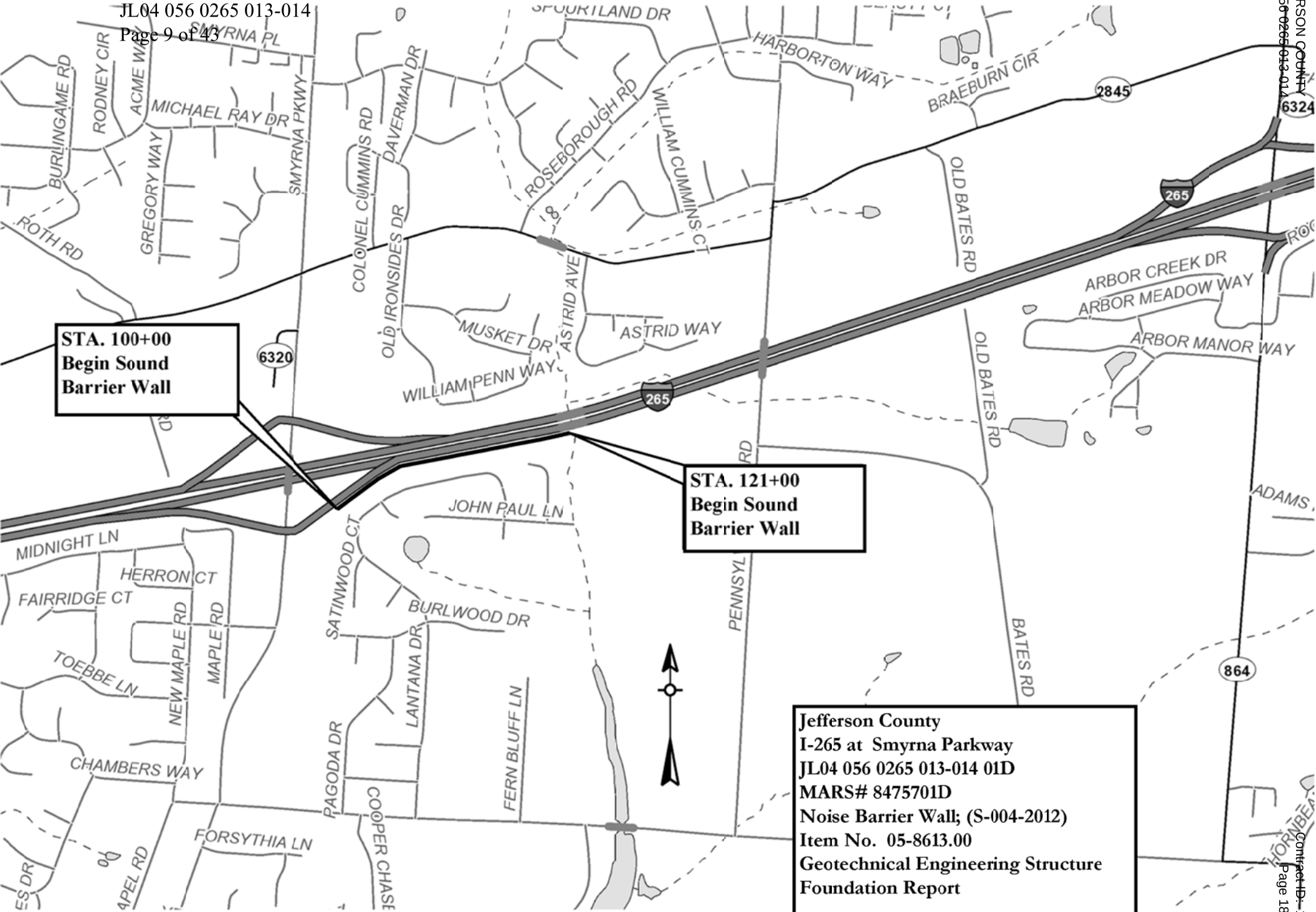
5.5 From station 118+50 through 121+20: Due to the presence of boulders through this interval permanent casing is required. Overburden soil properties may be considered for lateral support but shall be neglected for axial resistance.

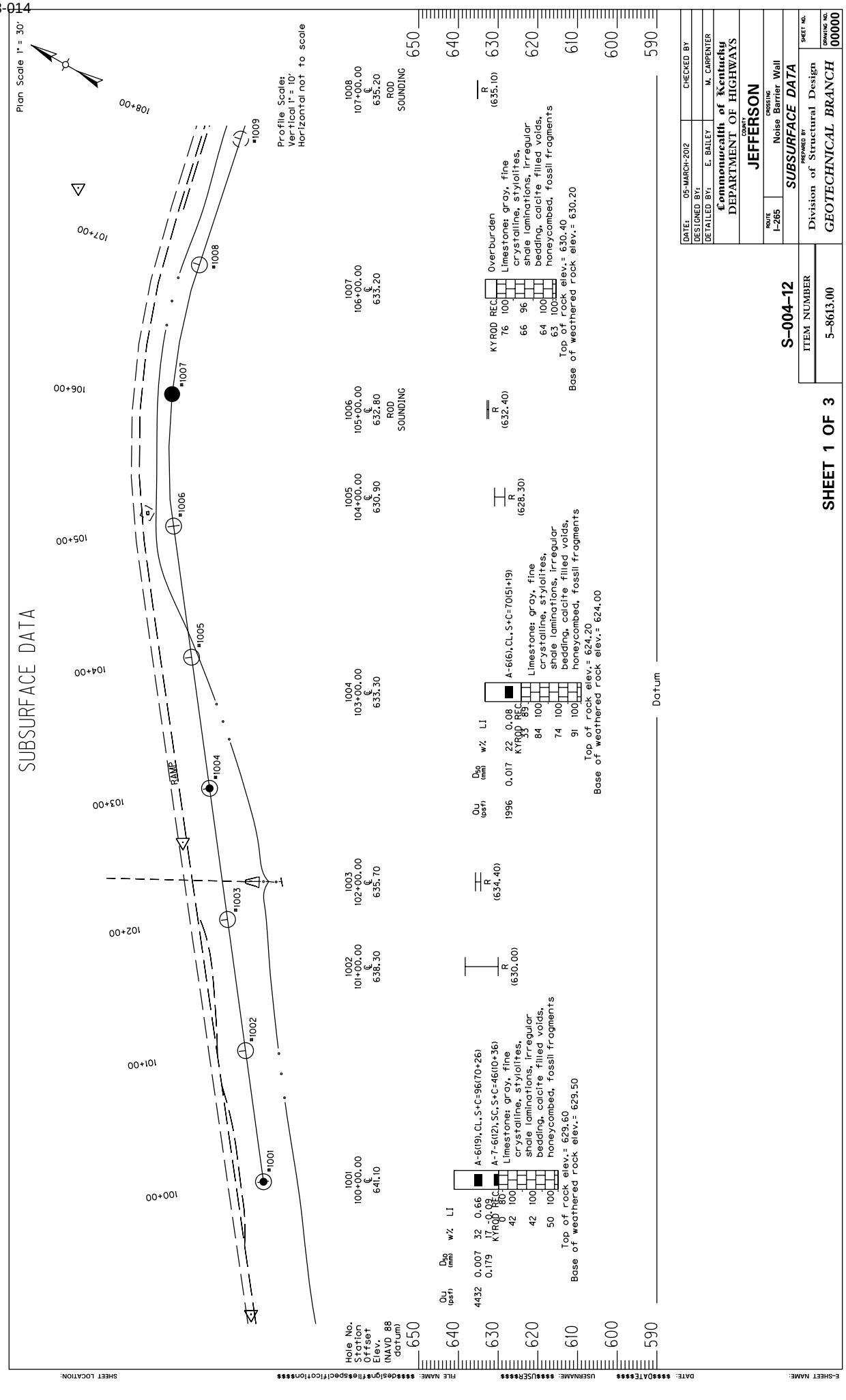
5.6 Solid rock excavation may be required for installation of this structure's spread footings.

5.7 The front face of the spread footing shall be located approximately 5 feet back from the cut wall face.

Attachments:

- **Project Location Map**
- **Subsurface Data Sheets**
- **Idealized Soil and Bedrock Profile Sheets**
- **Nominal Bearing Resistance at the Bottom of the Footing vs. Granular Replacement Depth for Various Footing Widths Chart**
- **Coordinate Data Sheet**

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Profile Scale:
Vertical 1" = 10'
Horizontal not to scale
RAMP
Datum
Hole No.
Station
Offset
Elev.
(NAVD 88 datum)
Qu (psf)
D50 (mm)
w%
L1
1001 100+00.00 ℄ 641.10
1002 101+00.00 ℄ 638.30
1003 102+00.00 ℄ 635.70
1004 103+00.00 ℄ 633.30
1005 104+00.00 ℄ 630.90
1006 105+00.00 ℄ 632.80 ROD SOUNDING
1007 106+00.00 ℄ 633.20
1008 107+00.00 ℄ 635.20 ROD SOUNDING
R (634.40)
R (630.00)
R (628.30)
R (632.40)
R (635.10)
KYROD REC
A-6(19),CL,S+C=96(70+26)
A-7-6(12),SC,S+C=46(10+36)
A-6(6),CL,S+C=70(51+19)
Overburden
Limestone: gray, fine crystalline, stylolites, shale laminations, irregular bedding, calcite filled voids, honeycombed, fossil fragments
Top of rock elev.= 629.60
Base of weathered rock elev.= 629.50
Top of rock elev.= 624.20
Base of weathered rock elev.= 624.00
Top of rock elev.= 630.40
Base of weathered rock elev.= 630.20
S–004–12
ITEM NUMBER
5–8613.00
SHEET 1 OF 3
DATE: 05-MARCH-2012
DESIGNED BY:
DETAILED BY: E. BAILEY
CHECKED BY
M. CARPENTER
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY
JEFFERSON
ROUTE
I-265
CROSSING
Noise Barrier Wall
SUBSURFACE DATA
PREPARED BY
Division of Structural Design
GEOTECHNICAL BRANCH
SHEET NO.
DRAWING NO.
00000
E-SHEET NAME:
DATE: $$$$DATE$$$$
USERNAME: $$$$USER$$$$
FILE NAME: $$$$designFilesSpecification$$$$
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SUBSURFACE DATA

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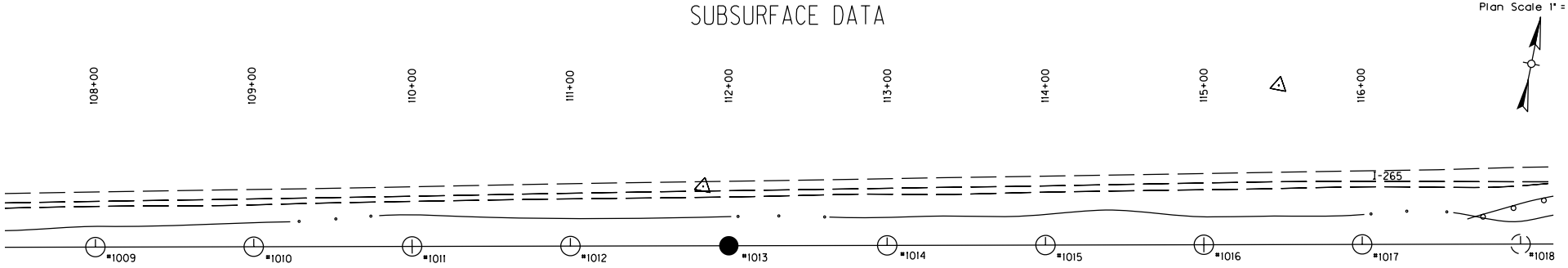

Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.	1009	1010	1011	1012	1013	1014	1015	1016	1017
Station	108+00.00	109+00.00	110+00.00	111+00.00	112+00.00	113+00.00	114+00.00	115+00.00	116+00.00
Offset	℄	℄	℄	℄	℄	℄	℄	℄	℄
Elev. (NAVD 88 datum)	635.30	635.10	635.30	635.00	634.20	635.00	638.10	638.00	635.20
	ROD SOUNDING	ROD SOUNDING	ROD SOUNDING	ROD SOUNDING				ROD SOUNDING	ROD SOUNDING
	R (635.00)	R (634.80)	R (635.20)	R (633.60)		R (633.00)	R (634.70)	R (637.40)	R (634.90)

650 640 630 620 610 600 590

KYROD REC
76 100
64 100
70 100

Overburden

Limestone: gray, fine crystalline, stylolites, shale laminations, irregular bedding, calcite filled voids, honeycombed, fossil fragments

Top of rock elev.= 632.90
Base of weathered rock elev.= 632.80

Datum

DATE: 05-MARCH-2012	CHECKED BY
DESIGNED BY:	
DETAILED BY: E. BAILEY	M. CARPENTER

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY: JEFFERSON

ROUTE: I-265 | CROSSING: Noise Barrier Wall

SUBSURFACE DATA

PREPARED BY: Division of Structural Design
GEOTECHNICAL BRANCH

SHEET NO.

DRAWING NO. 00000

S-004-12
ITEM NUMBER
5-8613.00

SHEET 2 OF 3

SHEET LOCATION:
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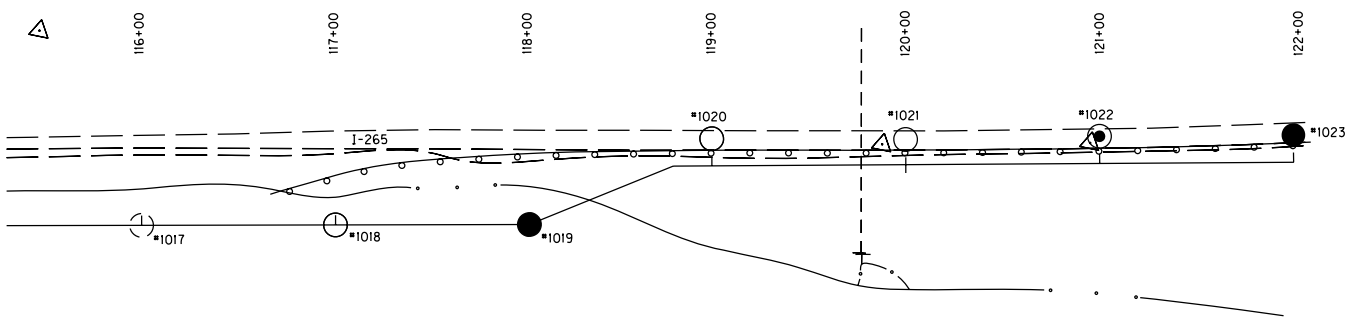
SUBSURFACE DATA

Plan Scale 1" = 30'



Profile Scale:
Vertical 1" = 10'
Horizontal not to scale

Hole No.	1018	1019	1020	1021	1022	1023
Station	117+00.00	118+00.00	119+00.00	120+00.00	121+00.00	122+00.00
Offset	℄	℄	14.00 ft. Lt.	13.00 ft. Lt.	14.00 ft. Lt.	14.00 ft. Lt.
Elev. (NAVD 88 datum)	626.40	621.30	623.00	622.20	620.70	622.60
	ROD SOUNDING					

630 620 610 600 590 580 570

R (625.60)

KYROD REC
52 86
62 98
Overburden
Cored Overburden: w/limestone boulders
Limestone: gray, fine crystalline, stylolites, shale laminations, irregular bedding, calcite filled voids, honeycombed, fossil fragments
Top of rock elev.= 619.00
No weathered rock

R (614.30)

R (595.50)

D_{50} (mm) w% LI
4.876 15 0.15 N=29 N=15 A-2-6(2),GC,S+C=31(27+4)
5.697 6 -0.73 N=17 A-2-6(1),GC,S+C=31(23+8)
KYROD REC
30 40
0 8
8 44
0 10
62 96
90 100
Cored Overburden: limestone boulders
Limestone: gray, fine crystalline, stylolites, shale laminations, irregular bedding, calcite filled voids, honeycombed, fossil fragments
Top of rock elev.= 583.80
No weathered rock

Overburden: w/limestone boulders
KYROD REC
58 100
72 98
58 100
Limestone: gray, fine crystalline, stylolites, shale laminations, irregular bedding, calcite filled voids, honeycombed, fossil fragments
Top of rock elev.= 600.80
Base of weathered rock elev.= 599.10

Datum

DATE: 05-MARCH-2012	CHECKED BY
DESIGNED BY:	
DETAILED BY: E. BAILEY	M. CARPENTER

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY: JEFFERSON

ROUTE: I-265 | CROSSING: Noise Barrier Wall

SUBSURFACE DATA

PREPARED BY: Division of Structural Design
GEOTECHNICAL BRANCH

SHEET NO.

DRAWING NO. 00000

S-004-12
ITEM NUMBER
5-8613.00

SHEET 3 OF 3

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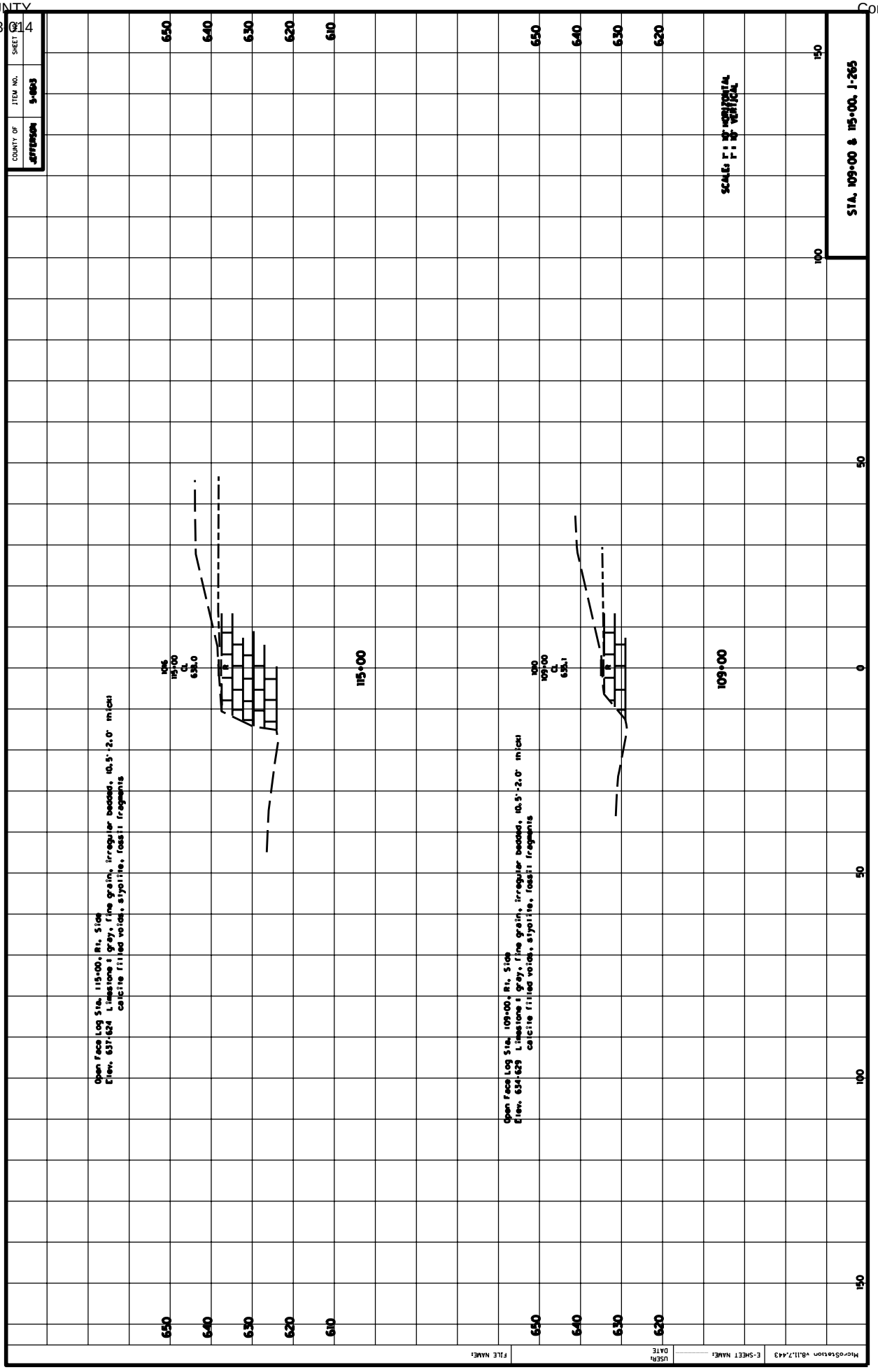

COUNTY OF
ITEM NO.
SHEET NO.
STA. 109+00 & 115+00, I-265
SCALE: F: 10' HORIZONTAL
F: 10' VERTICAL
Open face Log Sta. 115+00, Rt. Side
Elev. 637-624 Limestone : grey, fine grain, irregular bedded, 10.5'-2.0' inch
calcite filled voids, olyolite, fossil fragments
Open face Log Sta. 109+00, Rt. Side
Elev. 634-629 Limestone : grey, fine grain, irregular bedded, 10.5'-2.0' inch
calcite filled voids, olyolite, fossil fragments
115+00
109+00
650
640
630
620
610
100
50
0
150
FILE NAME:
USER
DATE
E-SHEET NAME:
MicroStation V8.11.7.443

IDEALIZED SOIL AND BEDROCK PROFILE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 100+00 through 103+60

DPB 7/20/2007

Approximate Elevation:

638 (ft.) — **Top of Shaft** — Parameters for Lateral Load Analyses

Fill Material / Overburden, Neglect for Support

γ_t (lb/ft^3) = 125
γ_e (lb/ft^3) = 125
C_u (psf) = 900

Stiff Clay without freewater
Effective Unit Weight, γ_e (lb/in^3) = 0.072
Cohesive Strength, C_u (psi) = 6.2
Soil Strain Parameter, ε_{50} = 0.01
Soil Modulus Parameter, K (lb/in^3) = 100

630 (ft.) — **Top of Rock Socket**

Strata		Parameters for Lateral Load Analyses		
Limestone		**Strong Rock (Vuggy Limestone)**		
γ_t (lb/ft^3) =	140	Effective Unit Weight,	γ_e (lb/in^3) =	0.081
q_u (psi) =	4000	Elastic Modulus,	E_r (psi) =	400,000
q_{eb} (ksf) =	120	Uniaxial Compressive Strength,	q_u (psi) =	4000
f_s (ksf) =	21.2	Cohesive Strength,	c_u (psi) =	2000

Shaft Tip

ADDITIONAL DATA FOR GEOTECHNICAL CALCULATIONS ONLY:	
min. f'$_c$ (psi) =	3500
p_a (psi) =	14.7

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 100+00 through 103+60

Rock Socket Diameter = 1.5 feet
Rock Socket Diameter = 18 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	100	212	50	106	156	40
>>>	2.0	21.2	120	200	212	100	106	206	80
	3.0	21.2	120	300	212	150	106	256	120
	4.0	21.2	120	400	212	200	106	306	160
	5.0	21.2	120	500	212	250	106	356	200
	6.0	21.2	120	600	212	300	106	406	240
	7.0	21.2	120	700	212	350	106	456	280
	8.0	21.2	120	800	212	400	106	506	320
	9.0	21.2	120	900	212	450	106	556	360
	10.0	21.2	120	1000	212	500	106	606	400
	11.0	21.2	120	1101	212	550	106	656	440
	12.0	21.2	120	1201	212	600	106	706	480
	13.0	21.2	120	1301	212	650	106	756	520
	14.0	21.2	120	1401	212	700	106	806	560
	15.0	21.2	120	1501	212	750	106	856	600
	16.0	21.2	120	1601	212	800	106	906	640
	17.0	21.2	120	1701	212	850	106	956	680
	18.0	21.2	120	1801	212	900	106	1006	720
	19.0	21.2	120	1901	212	950	106	1056	760
	20.0	21.2	120	2001	212	1000	106	1107	800
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 1.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 100+00 through 103+60

Rock Socket Diameter = 2.0 feet
Rock Socket Diameter = 24 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	133	377	67	188	255	53
>>>	2.0	21.2	120	267	377	133	188	322	107
	3.0	21.2	120	400	377	200	188	389	160
	4.0	21.2	120	534	377	267	188	455	213
	5.0	21.2	120	667	377	333	188	522	267
	6.0	21.2	120	800	377	400	188	589	320
	7.0	21.2	120	934	377	467	188	655	374
	8.0	21.2	120	1067	377	534	188	722	427
	9.0	21.2	120	1201	377	600	188	789	480
	10.0	21.2	120	1334	377	667	188	855	534
	11.0	21.2	120	1467	377	734	188	922	587
	12.0	21.2	120	1601	377	800	188	989	640
	13.0	21.2	120	1734	377	867	188	1056	694
	14.0	21.2	120	1868	377	934	188	1122	747
	15.0	21.2	120	2001	377	1000	188	1189	800
	16.0	21.2	120	2134	377	1067	188	1256	854
	17.0	21.2	120	2268	377	1134	188	1322	907
	18.0	21.2	120	2401	377	1201	188	1389	960
	19.0	21.2	120	2535	377	1267	188	1456	1014
	20.0	21.2	120	2668	377	1334	188	1522	1067
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.0

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 100+00 through 103+60

Rock Socket Diameter = 2.5 feet
Rock Socket Diameter = 30 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	167	589	83	295	378	67
>>>	2.0	21.2	120	333	589	167	295	461	133
	3.0	21.2	120	500	589	250	295	545	200
	4.0	21.2	120	667	589	333	295	628	267
	5.0	21.2	120	834	589	417	295	711	333
	6.0	21.2	120	1000	589	500	295	795	400
	7.0	21.2	120	1167	589	584	295	878	467
	8.0	21.2	120	1334	589	667	295	962	534
	9.0	21.2	120	1501	589	750	295	1045	600
	10.0	21.2	120	1667	589	834	295	1128	667
	11.0	21.2	120	1834	589	917	295	1212	734
	12.0	21.2	120	2001	589	1000	295	1295	800
	13.0	21.2	120	2168	589	1084	295	1378	867
	14.0	21.2	120	2334	589	1167	295	1462	934
	15.0	21.2	120	2501	589	1251	295	1545	1000
	16.0	21.2	120	2668	589	1334	295	1629	1067
	17.0	21.2	120	2835	589	1417	295	1712	1134
	18.0	21.2	120	3001	589	1501	295	1795	1201
	19.0	21.2	120	3168	589	1584	295	1879	1267
	20.0	21.2	120	3335	589	1667	295	1962	1334
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 100+00 through 103+60

Rock Socket Diameter = 3.0 feet
Rock Socket Diameter = 36 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	200	848	100	424	524	80
>>>	2.0	21.2	120	400	848	200	424	624	160
	3.0	21.2	120	600	848	300	424	724	240
	4.0	21.2	120	800	848	400	424	824	320
	5.0	21.2	120	1000	848	500	424	924	400
	6.0	21.2	120	1201	848	600	424	1024	480
	7.0	21.2	120	1401	848	700	424	1124	560
	8.0	21.2	120	1601	848	800	424	1225	640
	9.0	21.2	120	1801	848	900	424	1325	720
	10.0	21.2	120	2001	848	1000	424	1425	800
	11.0	21.2	120	2201	848	1101	424	1525	880
	12.0	21.2	120	2401	848	1201	424	1625	960
	13.0	21.2	120	2601	848	1301	424	1725	1041
	14.0	21.2	120	2801	848	1401	424	1825	1121
	15.0	21.2	120	3001	848	1501	424	1925	1201
	16.0	21.2	120	3202	848	1601	424	2025	1281
	17.0	21.2	120	3402	848	1701	424	2125	1361
	18.0	21.2	120	3602	848	1801	424	2225	1441
	19.0	21.2	120	3802	848	1901	424	2325	1521
	20.0	21.2	120	4002	848	2001	424	2425	1601
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

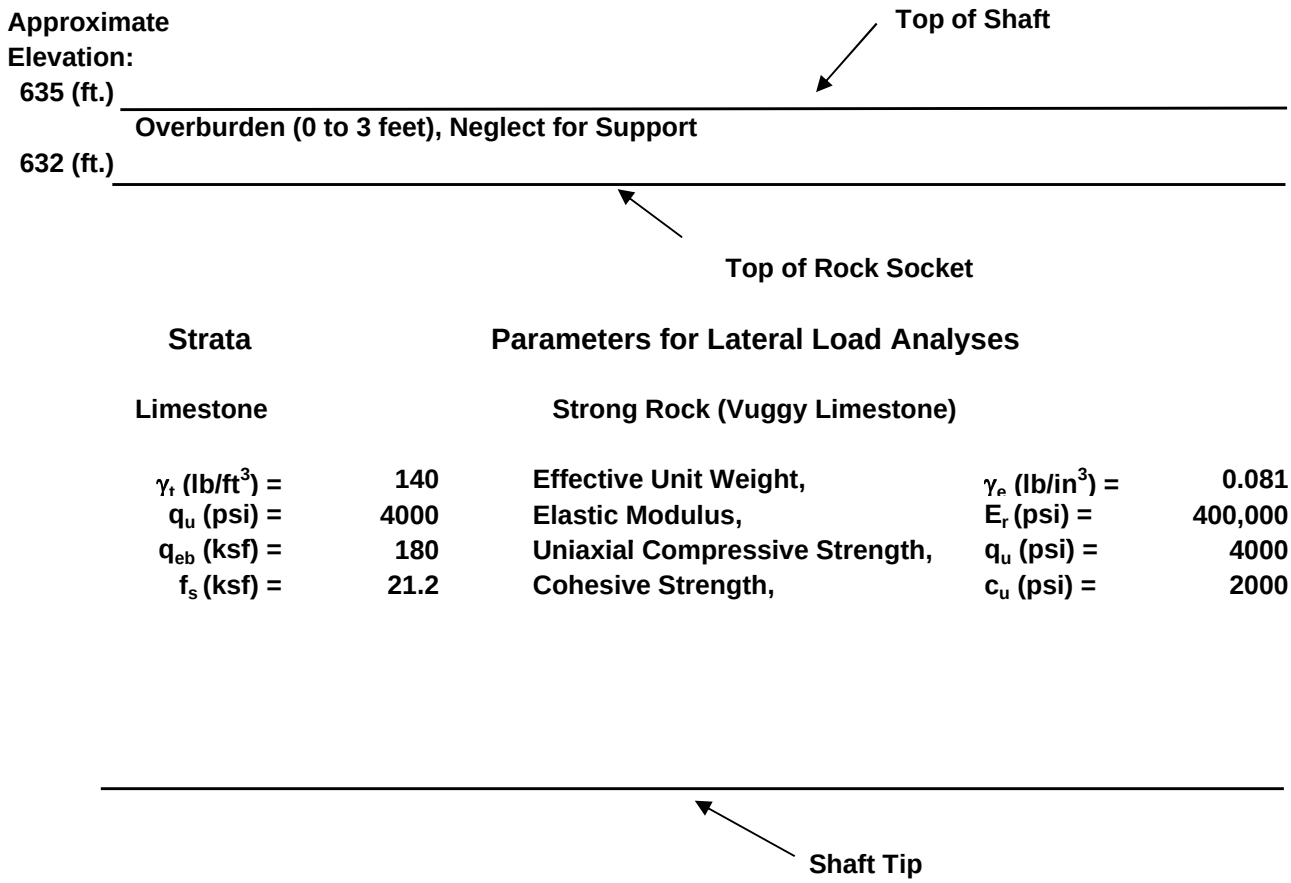
>>> indicates minimum socket length into sound bedrock

D (ft.) = 3.0

IDEALIZED SOIL AND BEDROCK PROFILE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 103+60 through 118+50

DPB 7/20/2007



Strata		Parameters for Lateral Load Analyses		
Limestone		Strong Rock (Vuggy Limestone)		
γ_t (lb/ft^3) =	140	Effective Unit Weight,	γ_e (lb/in^3) =	0.081
q_u (psi) =	4000	Elastic Modulus,	E_r (psi) =	400,000
q_{eb} (ksf) =	180	Uniaxial Compressive Strength,	q_u (psi) =	4000
f_s (ksf) =	21.2	Cohesive Strength,	c_u (psi) =	2000

ADDITIONAL DATA FOR GEOTECHNICAL CALCULATIONS ONLY:	
min. f'_c (psi) =	3500
p_a (psi) =	14.7

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 103+60 through 118+50

Rock Socket Diameter = 1.5 feet
Rock Socket Diameter = 18 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	180	100	318	50	159	209	40
>>>	2.0	21.2	180	200	318	100	159	259	80
	3.0	21.2	180	300	318	150	159	309	120
	4.0	21.2	180	400	318	200	159	359	160
	5.0	21.2	180	500	318	250	159	409	200
	6.0	21.2	180	600	318	300	159	459	240
	7.0	21.2	180	700	318	350	159	509	280
	8.0	21.2	180	800	318	400	159	559	320
	9.0	21.2	180	900	318	450	159	609	360
	10.0	21.2	180	1000	318	500	159	659	400
	11.0	21.2	180	1101	318	550	159	709	440
	12.0	21.2	180	1201	318	600	159	759	480
	13.0	21.2	180	1301	318	650	159	809	520
	14.0	21.2	180	1401	318	700	159	859	560
	15.0	21.2	180	1501	318	750	159	909	600
	16.0	21.2	180	1601	318	800	159	959	640
	17.0	21.2	180	1701	318	850	159	1009	680
	18.0	21.2	180	1801	318	900	159	1059	720
	19.0	21.2	180	1901	318	950	159	1110	760
	20.0	21.2	180	2001	318	1000	159	1160	800
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 1.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 103+60 through 118+50

Rock Socket Diameter = 2.0 feet
Rock Socket Diameter = 24 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	180	133	565	67	283	349	53
>>>	2.0	21.2	180	267	565	133	283	416	107
	3.0	21.2	180	400	565	200	283	483	160
	4.0	21.2	180	534	565	267	283	550	213
	5.0	21.2	180	667	565	333	283	616	267
	6.0	21.2	180	800	565	400	283	683	320
	7.0	21.2	180	934	565	467	283	750	374
	8.0	21.2	180	1067	565	534	283	816	427
	9.0	21.2	180	1201	565	600	283	883	480
	10.0	21.2	180	1334	565	667	283	950	534
	11.0	21.2	180	1467	565	734	283	1016	587
	12.0	21.2	180	1601	565	800	283	1083	640
	13.0	21.2	180	1734	565	867	283	1150	694
	14.0	21.2	180	1868	565	934	283	1217	747
	15.0	21.2	180	2001	565	1000	283	1283	800
	16.0	21.2	180	2134	565	1067	283	1350	854
	17.0	21.2	180	2268	565	1134	283	1417	907
	18.0	21.2	180	2401	565	1201	283	1483	960
	19.0	21.2	180	2535	565	1267	283	1550	1014
	20.0	21.2	180	2668	565	1334	283	1617	1067
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.0

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 103+60 through 118+50

Rock Socket Diameter = 2.5 feet
Rock Socket Diameter = 30 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	180	167	884	83	442	525	67
>>>	2.0	21.2	180	333	884	167	442	609	133
	3.0	21.2	180	500	884	250	442	692	200
	4.0	21.2	180	667	884	333	442	775	267
	5.0	21.2	180	834	884	417	442	859	333
	6.0	21.2	180	1000	884	500	442	942	400
	7.0	21.2	180	1167	884	584	442	1025	467
	8.0	21.2	180	1334	884	667	442	1109	534
	9.0	21.2	180	1501	884	750	442	1192	600
	10.0	21.2	180	1667	884	834	442	1276	667
	11.0	21.2	180	1834	884	917	442	1359	734
	12.0	21.2	180	2001	884	1000	442	1442	800
	13.0	21.2	180	2168	884	1084	442	1526	867
	14.0	21.2	180	2334	884	1167	442	1609	934
	15.0	21.2	180	2501	884	1251	442	1692	1000
	16.0	21.2	180	2668	884	1334	442	1776	1067
	17.0	21.2	180	2835	884	1417	442	1859	1134
	18.0	21.2	180	3001	884	1501	442	1943	1201
	19.0	21.2	180	3168	884	1584	442	2026	1267
	20.0	21.2	180	3335	884	1667	442	2109	1334
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 103+60 through 118+50

Rock Socket Diameter = 3.0 feet
Rock Socket Diameter = 36 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	180	200	1272	100	636	736	80
>>>	2.0	21.2	180	400	1272	200	636	836	160
	3.0	21.2	180	600	1272	300	636	936	240
	4.0	21.2	180	800	1272	400	636	1036	320
	5.0	21.2	180	1000	1272	500	636	1136	400
	6.0	21.2	180	1201	1272	600	636	1236	480
	7.0	21.2	180	1401	1272	700	636	1337	560
	8.0	21.2	180	1601	1272	800	636	1437	640
	9.0	21.2	180	1801	1272	900	636	1537	720
	10.0	21.2	180	2001	1272	1000	636	1637	800
	11.0	21.2	180	2201	1272	1101	636	1737	880
	12.0	21.2	180	2401	1272	1201	636	1837	960
	13.0	21.2	180	2601	1272	1301	636	1937	1041
	14.0	21.2	180	2801	1272	1401	636	2037	1121
	15.0	21.2	180	3001	1272	1501	636	2137	1201
	16.0	21.2	180	3202	1272	1601	636	2237	1281
	17.0	21.2	180	3402	1272	1701	636	2337	1361
	18.0	21.2	180	3602	1272	1801	636	2437	1441
	19.0	21.2	180	3802	1272	1901	636	2537	1521
	20.0	21.2	180	4002	1272	2001	636	2637	1601
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 3.0

IDEALIZED SOIL AND BEDROCK PROFILE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 118+50 through 121+20

DPB 7/20/2007

Approximate Elevation:

622 (ft.) — **Top of Shaft**

Parameters for Lateral Load Analyses

Fill Material with Boulders / Overburden

γ_t (lb/ft^3) = 125
γ_e (lb/ft^3) = 125
C_u (psf) = 900

Stiff Clay without freewater

Effective Unit Weight, γ_e (lb/in^3) = 0.072
Cohesive Strength, C_u (psi) = 6.2
Soil Strain Parameter, ε_{50} = 0.01
Soil Modulus Parameter, K (lb/in^3)= 100

600 (ft.) — **Top of Rock Socket**

Strata		Parameters for Lateral Load Analyses		
Limestone		**Strong Rock (Vuggy Limestone)**		
γ_t (lb/ft^3) =	140	Effective Unit Weight,	γ_e (lb/in^3) =	0.081
q_u (psi) =	4000	Elastic Modulus,	E_r (psi) =	400,000
q_{eb} (ksf) =	120	Uniaxial Compressive Strength,	q_u (psi) =	4000
f_s (ksf) =	21.2	Cohesive Strength,	c_u (psi) =	2000

Shaft Tip

ADDITIONAL DATA FOR GEOTECHNICAL CALCULATIONS ONLY:	
min. f'_c (psi) =	3500
p_a (psi) =	14.7

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 118+50 through 121+20

Rock Socket Diameter = 1.5 feet
Rock Socket Diameter = 18 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	200	848	100	424	524	80
>>>	2.0	21.2	120	400	848	200	424	624	160
	3.0	21.2	120	600	848	300	424	724	240
	4.0	21.2	120	800	848	400	424	824	320
	5.0	21.2	120	1000	848	500	424	924	400
	6.0	21.2	120	1201	848	600	424	1024	480
	7.0	21.2	120	1401	848	700	424	1124	560
	8.0	21.2	120	1601	848	800	424	1225	640
	9.0	21.2	120	1801	848	900	424	1325	720
	10.0	21.2	120	2001	848	1000	424	1425	800
	11.0	21.2	120	2201	848	1101	424	1525	880
	12.0	21.2	120	2401	848	1201	424	1625	960
	13.0	21.2	120	2601	848	1301	424	1725	1041
	14.0	21.2	120	2801	848	1401	424	1825	1121
	15.0	21.2	120	3001	848	1501	424	1925	1201
	16.0	21.2	120	3202	848	1601	424	2025	1281
	17.0	21.2	120	3402	848	1701	424	2125	1361
	18.0	21.2	120	3602	848	1801	424	2225	1441
	19.0	21.2	120	3802	848	1901	424	2325	1521
	20.0	21.2	120	4002	848	2001	424	2425	1601
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ	0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 1.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 118+50 through 121+20

Rock Socket Diameter = 2.0 feet
Rock Socket Diameter = 24 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	200	848	100	424	524	80
>>>	2.0	21.2	120	400	848	200	424	624	160
	3.0	21.2	120	600	848	300	424	724	240
	4.0	21.2	120	800	848	400	424	824	320
	5.0	21.2	120	1000	848	500	424	924	400
	6.0	21.2	120	1201	848	600	424	1024	480
	7.0	21.2	120	1401	848	700	424	1124	560
	8.0	21.2	120	1601	848	800	424	1225	640
	9.0	21.2	120	1801	848	900	424	1325	720
	10.0	21.2	120	2001	848	1000	424	1425	800
	11.0	21.2	120	2201	848	1101	424	1525	880
	12.0	21.2	120	2401	848	1201	424	1625	960
	13.0	21.2	120	2601	848	1301	424	1725	1041
	14.0	21.2	120	2801	848	1401	424	1825	1121
	15.0	21.2	120	3001	848	1501	424	1925	1201
	16.0	21.2	120	3202	848	1601	424	2025	1281
	17.0	21.2	120	3402	848	1701	424	2125	1361
	18.0	21.2	120	3602	848	1801	424	2225	1441
	19.0	21.2	120	3802	848	1901	424	2325	1521
	20.0	21.2	120	4002	848	2001	424	2425	1601
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ		0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.0

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 118+50 through 121+20

Rock Socket Diameter = 2.5 feet
Rock Socket Diameter = 30 inches **DPB 7/20/2007**

	Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
	0.0								
	1.0	21.2	120	200	848	100	424	524	80
>>>	2.0	21.2	120	400	848	200	424	624	160
	3.0	21.2	120	600	848	300	424	724	240
	4.0	21.2	120	800	848	400	424	824	320
	5.0	21.2	120	1000	848	500	424	924	400
	6.0	21.2	120	1201	848	600	424	1024	480
	7.0	21.2	120	1401	848	700	424	1124	560
	8.0	21.2	120	1601	848	800	424	1225	640
	9.0	21.2	120	1801	848	900	424	1325	720
	10.0	21.2	120	2001	848	1000	424	1425	800
	11.0	21.2	120	2201	848	1101	424	1525	880
	12.0	21.2	120	2401	848	1201	424	1625	960
	13.0	21.2	120	2601	848	1301	424	1725	1041
	14.0	21.2	120	2801	848	1401	424	1825	1121
	15.0	21.2	120	3001	848	1501	424	1925	1201
	16.0	21.2	120	3202	848	1601	424	2025	1281
	17.0	21.2	120	3402	848	1701	424	2125	1361
	18.0	21.2	120	3602	848	1801	424	2225	1441
	19.0	21.2	120	3802	848	1901	424	2325	1521
	20.0	21.2	120	4002	848	2001	424	2425	1601
AASHTO Table 10.5.5.2.4-1					Resistance Factor, ϕ	0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 2.5

Load and Resistance Factor Design (LRFD)

DRILLED SHAFT AXIAL RESISTANCE TABLE

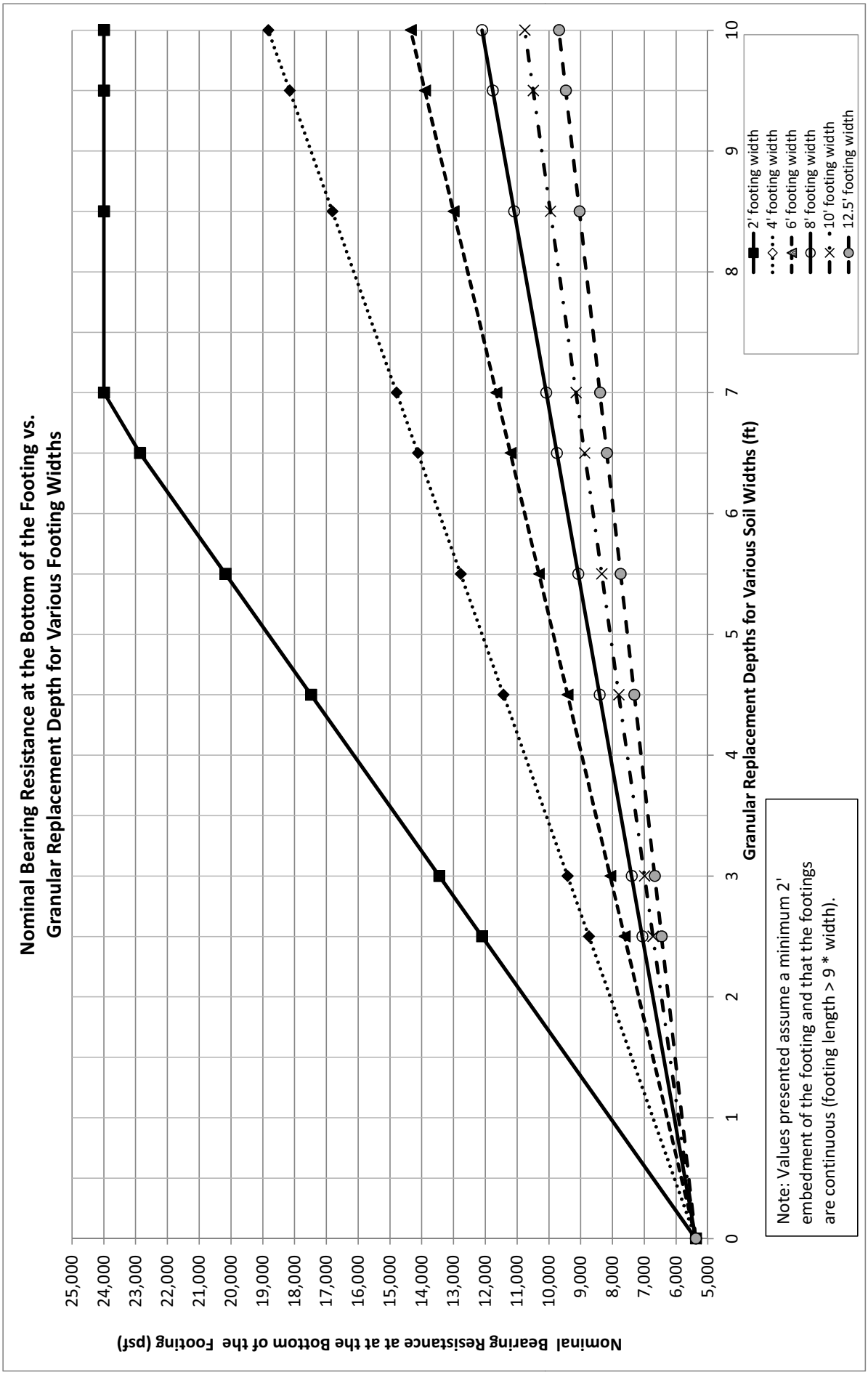
Jefferson Co. S-004-2012; Noise Barrier Wall I-265 at Smyrna Parkway
Station 118+50 through 121+20

Rock Socket Diameter = 3.0 feet
Rock Socket Diameter = 36 inches **DPB 7/20/2007**

Rock Socket Length (ft.)	Nominal Unit Side Shear q_{ss} (ksf)	Nominal Unit End Bearing q_{eb} (ksf)	Nominal Side Resistance R_{sr} (kips)	Nominal End Bearing Resistance R_{eb} (kips)	Factored Side Resistance ϕR_{sr} (kips)	Factored End Bearing Resistance ϕR_{eb} (kips)	Total Factored Axial Resistance ϕR_t (kips)	Total Factored Uplift Resistance ϕR_{tu} (kips)
0.0								
1.0	21.2	120	200	848	100	424	524	80
>>> 2.0	21.2	120	400	848	200	424	624	160
3.0	21.2	120	600	848	300	424	724	240
4.0	21.2	120	800	848	400	424	824	320
5.0	21.2	120	1000	848	500	424	924	400
6.0	21.2	120	1201	848	600	424	1024	480
7.0	21.2	120	1401	848	700	424	1124	560
8.0	21.2	120	1601	848	800	424	1225	640
9.0	21.2	120	1801	848	900	424	1325	720
10.0	21.2	120	2001	848	1000	424	1425	800
11.0	21.2	120	2201	848	1101	424	1525	880
12.0	21.2	120	2401	848	1201	424	1625	960
13.0	21.2	120	2601	848	1301	424	1725	1041
14.0	21.2	120	2801	848	1401	424	1825	1121
15.0	21.2	120	3001	848	1501	424	1925	1201
16.0	21.2	120	3202	848	1601	424	2025	1281
17.0	21.2	120	3402	848	1701	424	2125	1361
18.0	21.2	120	3602	848	1801	424	2225	1441
19.0	21.2	120	3802	848	1901	424	2325	1521
20.0	21.2	120	4002	848	2001	424	2425	1601
AASHTO Table 10.5.5.2.4-1				Resistance Factor, ϕ	0.50	0.50		0.40

>>> indicates minimum socket length into sound bedrock

D (ft.) = 3.0


Nominal Bearing Resistance at the Bottom of the Footing vs.
Granular Replacement Depth for Various Footing Widths
Nominal Bearing Resistance at at the Bottom of the Footing (psf)
25,000
24,000
23,000
22,000
21,000
20,000
19,000
18,000
17,000
16,000
15,000
14,000
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
0
1
2
3
4
5
6
7
8
9
10
Granular Replacement Depths for Various Soil Widths (ft)
2' footing width
4' footing width
6' footing width
8' footing width
10' footing width
12.5' footing width
Note: Values presented assume a minimum 2' embedment of the footing and that the footings are continuous (footing length > 9 * width).

Sound Barrier Wall
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COORDINATE DATA SUBMISSION FORM
KYTC DIVISION OF STRUCTURAL DESIGN -- GEOTECHNICAL BRANCH

County JEFFERSON **Date** 01/25/12

Road Number I-265

Survey Crew / Consultant D-5, SURVEY CREW

Contact Person TOMMY SHOUSE

Item # 5-8613.00

Mars # 8475701D

Project # JL04 056 0265 013-014 01 D

Notes:
HOLE **#1010** & HOLE **#1011**: THE STAKES ARE OFFSET, POINTS ARE PK'S IN ROCK AT LOCATION REQUESTED.

Elevation Datum **(circle one)** **NAVD88** **Assumed**

HOLE NUMBER	LATITUDE (Decimal Degrees)	LONGITUDE (Decimal Degrees)	HOLE NUMBER	STATION	OFFSET	ELEVATION (ft)
1001	38.117290609	-85.642373384	1001	100+00	CL (WALL)	641.1
1002	38.117456852	-85.642096826	1002	101+00	CL (WALL)	638.3
1003	38.117623001	-85.641820128	1003	102+00	CL (WALL)	635.7
1004	38.117789242	-85.641543376	1004	103+00	CL (WALL)	633.3
1005	38.117955150	-85.641266460	1005	104+00	CL (WALL)	630.9
1006	38.118121410	-85.640989994	1006	105+00	CL (WALL)	632.8
1007	38.118258773	-85.640689730	1007	106+00	CL (WALL)	633.2
1008	38.118340905	-85.640358906	1008	107+00	CL (WALL)	635.2
1009	38.118394752	-85.640017468	1009	108+00	CL (WALL)	635.3
1010	38.118447911	-85.639676847	1010	109+00	CL (WALL)	635.1
1011	38.118501685	-85.639336160	1011	110+00	CL (WALL)	635.3
1012	38.118554938	-85.638995017	1012	111+00	CL (WALL)	635.0
1013	38.118608471	-85.638654064	1013	112+00	CL (WALL)	634.2
1014	38.118661991	-85.638313306	1014	113+00	CL (WALL)	635.0
1015	38.118715495	-85.637972442	1015	114+00	CL (WALL)	638.1
1016	38.118769361	-85.637630841	1016	115+00	CL (WALL)	638.0
1017	38.118822360	-85.637290009	1017	116+00	CL (WALL)	635.2
1018	38.118876231	-85.636949401	1018	117+00	CL (WALL)	626.4
1019	38.118929426	-85.636608613	1019	118+00	CL (WALL)	621.3
1020	38.119061057	-85.636307975	1020	119+00	CL (WALL)	622.1
1021	38.119115491	-85.635967100	1021	120+00	CL (WALL)	621.3
1022	38.119170322	-85.635626509	1022	121+00	CL (WALL)	619.8
1023	38.119224614	-85.635285828	1023	122+00	CL (WALL)	617.2

SPECIAL NOTES FOR SOUND BARRIER WALL CONSTRUCTION

JL04 056 0265 013-014
EMARS: 8475701 D

THIS PROJECT IS A FULLY CONTROLLED ACCESS HIGHWAY

GENERAL

All work shall be performed in accordance with the Department's 2008 Standard Specifications, current Standard Drawings, and the Manual on Uniform Traffic Control Devices (MUTCD), except as specified in these notes or elsewhere in this proposal. Section references are to the Standard Specifications.

SITE PREPARATION

Contractor will be responsible for filing KPDES Notice of Intent permit. Site Preparation will be measured as Lump Sum. This work will include, but is not limited to, clearing and grubbing, incidental excavation, grading, backfilling, embankment, and ditching and shouldering; removal of obstructions or any other items; disposal of materials, waste, and debris; temporary and permanent erosion control; restoration, final dressing, and seeding and protection. The Department has not determined the area of clearing and grubbing and the Contractor shall make his own determination. Construct silt traps and temporary silt fence as directed by the Engineer. Perform all site preparation only as approved or directed by the Engineer. Other than the items listed, all site preparation will be incidental to the lump sum bid for Site Preparation.

ON-SITE INSPECTION

Each Contractor submitting a bid for this work shall make a thorough inspection of the site prior to submitting his bid and shall thoroughly familiarize himself with existing conditions so that the work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

RIGHT-OF-WAY LIMITS

The Department has not established the exact limits of right-of-way. Limit activities to obvious Right-of-Way and work areas, if any, secured by the Department through consent and release of the adjacent property owners. Be responsible for all encroachments onto private lands.

PROPERTY DAMAGE AND RESTORATION

The Contractor shall be responsible for all damage to public and/or private property resulting from the work. All disturbed features shall be restored in like kind materials and designed at no additional cost to the Department.

SOUND BARRIER WALLS

See Special Notes for Sound Barrier Walls and the Plans.

MAINTAINING AND CONTROLLING TRAFFIC

See Traffic Management Plan and Traffic Maintenance sheets in the Roadway Plan Set.

SPECIAL NOTE FOR SOUND BARRIER WALLS

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EMARS: 8475701 D

I. DESCRIPTION

All work shall be performed in accordance with the Department's latest Standard and Supplemental Specifications and applicable Special Provisions and Standard and Sepia Drawings, except as specified in these notes or elsewhere in this proposal. Section references are to the Standard Specifications. This work shall consist of the sound barrier wall and foundation design, construction plans for the foundation, shop drawing preparation, and construction of precast concrete sound barrier walls, including construction of the drilled shaft foundations, in reasonably close conformity with the lines and grades shown on the contract plans and the Contractor's approved plans.

All references to AASHTO are to the AASHTO Standard Specifications for Highway Bridges, Current Edition with Interims.

All references to the Guide Specifications are to the AASHTO Guide Specifications for Structural Design of Barriers Current Edition with Interims.

The appendix to this Special Note contains the project specific requirements.

II. DESIGN

A. General

Furnish plans for sound barrier walls and drilled shaft foundations or spread footing (see attached geotechnical report) designed by a Registered Professional engineer licensed to practice in the Commonwealth of Kentucky. Design according to the Guide Specifications, AASHTO, and the Contract plans and documents. Design for an 84-mph wind velocity. Design for exposure category in accordance with the Guide Specifications, see the Appendix. Design for wind pressure based on the Exposure Category and the height to the centroid (mid-height) of the loaded area. Apply the wind pressure as a uniform load.

The Contractor's design shall comply with all restrictions imposed by the site conditions and the proposal notes and plan sheets such as drainage, accommodation of existing and proposed utilities, limitations on dimensions or sound barrier wall location, fire hydrant access, and other conditions noted or

found in the field. The top and bottom of the sound barrier wall elevation throughout shall be as shown on the contract plans.

Design a free standing sound barrier wall finished on both sides. The maximum precast panel length shall be 40 feet. Design all sound barrier walls for the same appearance and materials.

B. Site Conditions

Be advised that Section 102.06 of the Specifications applies to this project. It shall be distinctly understood that any references in the contract plans and other contract documents to rock, rock disintegration zone, earth, or any other subsurface material whether in numbers, words, letters, or lines is solely for the Department's information. The Bidder draws own conclusions as to the field conditions to be encountered.

Tops of footings or drilled shafts are to be a minimum of 6 inches below finished grade and the bottoms of footings and sound barrier walls are to be a minimum of two feet below finished grade unless otherwise shown on the contract plans or Appendix.

C. Utilities

Take into consideration existing and proposed utilities and the Department’s electrical service for interchange lighting in the vicinity of the sound barrier walls when developing sound barrier wall details. Show on the Contractor’s plans and shop drawings additional work or materials necessary to construct the sound barrier wall without disturbing the utilities. Repair or replace features damaged during construction in like kind materials and design at no additional cost to the Department.

D. Contractor Submittals

Submit design calculations and plans to the Engineer for review within thirty calendar days of the 'Notice to Begin Work'. Submit adequate documentation of proprietary designs and/or products to the Engineer for review.

Submit three complete sets of the design calculations and five complete sets of the plans for the sound barrier wall to the Engineer for approval. Design calculations shall include the design for each component of the wall and the wall as a unit. Include the design for the horizontal connection (dowels, etc.) between panels. One set of design calculations and plans, with any corrections noted will be returned to the Contractor. Each time corrections are made, three copies of the

revised calculation sheets and/or five copies of the revised plan sheets shall be submitted.

The Department will review the design calculations and plans for general conformance with the Guide Specifications, AASHTO, this Special Note, and the Contract Documents. The design calculations, plans, details and dimensions may not be completely checked. The Contractor shall be responsible for the accuracy of his design calculations and for compatibility with the contract plans. The Department's review will not relieve the Contractor of responsibility for the accuracy and completeness of the design calculations and plans.

Upon final approval by the Department, furnish original Mylar reproducible drawings of the Contractor's approved plans to the Engineer. The Department will provide copies of the approved plans to the Contractor.

Do not produce shop drawings before the Department's approval of the design calculations and Contractor's plans are completed. The Contractor's wall design engineer providing the design calculations and plans shall be responsible for shop drawing review. The Contractor's wall design engineer shall provide the Engineer ten sets of reviewed and approved shop drawings for the wall and provide the Department with a statement of assurance that the shop drawings are accurate and that they satisfy the project requirements. Each sheet of two copies of the shop drawings shall be dated, sealed, and signed by the wall design engineer providing the Contractor's design for the wall. Place the Drawing Number on the lower right hand side of all shop drawings.

Do not order materials or begin fabrication or construction before the Department's review of the shop drawings is completed. The Contractor may request permission from the Engineer to begin foundation construction at his own risk. Written permission from the engineer is required.

After acceptance by the Department, submit requests for changes to the design calculations, Contractor's approved plans and shop drawings to the Engineer. Obtain written acceptance from the Engineer before incorporating any of the requested changes into the work.

Allow fourteen working days for the Department's review of each submission of the design calculations, Contractor's plans, and shop drawings for the sound barrier wall. The fourteen day period begins when the design calculations, Contractor's plans, or shop drawings are received by the Engineer. Additional time required by the Department to review re-submissions shall not be cause for extending the specified completion date. Provide additional re-submissions as requested at no additional cost to the Department and with no extension of the specified completion date.

III. SOUND BARRIER WALLS

See the Appendix for permitted wall type and architectural treatment.

Precast Concrete panels may be pilaster, (post), and panel design or connected panels.

Precast concrete panels, pilasters, and other precast elements shall comply with Section 605 of the Standard Specifications. Precast concrete shall be Class D with a minimum 28-day compressive strength of 5000 p.s.i. All materials and reinforcement shall conform to the Department's Standard Specifications.

Precast panels, pilasters, and other precast elements may be prestressed. Prestress fabrication shall be in accordance with Section 605 of the Standard Specifications. Prestressing tendons may be either bar or strand. Prestressing bars shall conform to ASTM A722 'Uncoated Steel Bars for Prestressed Concrete'. Prestressing strands shall be seven wire strands conforming to ASTM A416, 'Uncoated Seven-wire Stress-Relieved Strand for Prestressed Concrete'.

The Contractor’s design shall be in accordance to the Special Note for Drilled Shafts (1IC) of the Standard Specifications when drilled shaft foundations are used. The Contractor’s plans shall indicate whether or not permanent casings will be required. Drilled Shaft Common, Drilled Shaft Solid Rock, Rock Sounding, and Rock Coring will be incidental to the Sound Barrier Wall and will not be measured for separate payment.

Use preformed joint filler complying with AASHTO M153 for types I, II, or III or AASHTO M213.

Use epoxy coated steel dowels to provide positive horizontal alignment of panels coated in accordance with Section 811.10.

Provide positive means of alignment between panels. Use tongue and groove joints or steel dowels. If steel dowels are used at horizontal joints between panels, install no less than one dowel at the mid-point for panels up to 20 feet long and no less than two dowels at the third point for panels over 20 feet long.

Seal all joints between panels and between pilasters and panels to prevent sound leaks. Obtain the Engineer’s approval of the sealant before use.

Step elevation changes at the top of the sound barrier wall except for end panels. Construct the top of sound barrier level between steps. Make steps only at the pilasters. Construct the top of the sound barrier wall at or above the elevation of the top of the sound barrier shown on the contract plans. Taper end panels six feet vertically in eight to ten feet horizontally.

Construct reinforced concrete pilasters. Cast using metal forms. Construct pilasters that protrude a maximum of twelve inches from the front face of the precast panels. Connect pilasters to drilled shaft foundations above the finish grade. Use bolted galvanized steel for the connections; the Engineer will not allow or permit field welding.

Obtain the Engineer's approval of joint materials and details before use.

IV. MATERIALS APPROVAL

All materials shall be sampled and tested in accordance with the Department's Sampling Manual and the materials shall be available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing. Unless otherwise specified in these Notes, obtain acceptance of materials from the Engineer before use.

V. CONSTRUCTION

Perform site preparation necessary to construct the sound barrier wall in accordance with the Standard Specifications, contract plans, Contractor's approved plans, and notes in the proposal. Clear and grub the minimum area required to construct the wall. Sound standing trees and shrubs within the construction limits shall be trimmed or removed only as directed or approved by the Engineer. The Engineer may direct minor alignment changes to avoid damage to existing trees or shrubs.

Construct sound barrier walls in accordance with the contract plans, the Contractor's approved plans, and the approved shop drawings. Construct vertical and horizontal joints so that the sound barrier wall is structurally sound and has no sound leaks. Construct the face of the completed sound barrier wall without deviation from the vertical of more than ½ inch in ten feet and with horizontal alignment conforming to the neat line shown on the contract plans.

Transport, store, handle, and erect precast units in accordance with Section 605 of the Standard Specifications.

Protect all masonry materials from the weather from the time of manufacture until they are in the finished sound barrier walls.

Construction of the ditches shown on the plans will not be measured for payment but shall be incidental to Site Preparation.

After constructing the wall, clean all sound barrier wall surfaces. Clean from the top of the wall to twelve inches below finished grade on both sides. Use a cleaner selected by the Contractor and approved by the Engineer.

VI. MEASUREMENT

The Department will measure sound barrier walls in square feet of surface area in a vertical plane between the vertical and horizontal limits, top of wall elevations, and lateral limits shown on the Contractor's approved plans or approved changes; however, tops of footings may be above the minimum depth of burial with no reduction in area to be measured.

Any area of the sound barrier wall outside the approved vertical and horizontal plan limits as shown on the approved plans or changes approved or directed by the Engineer will not be measured for payment. Approved adjustments in the area will be measured in square yards and the final quantity will be increased or decreased as applicable.

The Department will not measure caps, copings, joint sealants, void fill material, weep holes, connectors, trim, surface finish, concrete stain, cleaning, fire hydrant access panel and post mounted sign, sample panels, and incidental items that are a normal part of the sound barrier wall construction, but shall be incidental to Sound Barrier Wall.

Contrary to Section 603.04.03, Foundation Preparation will be measured as lump sum. Structure Excavation Common, Structure Excavation Solid Rock, Structure Excavation Unclassified, and Foundation Undercut for removal of unsuitable foundation materials, and refill will not be measured for separate payment but shall be incidental to Foundation Preparation. Removal and resetting of guardrail if needed for access will not be measured for separate payment and shall be incidental to Foundation Preparation.

VII. PAYMENT

Payment at the contract unit price per square foot shall be full complete compensation for all labor, materials, equipment, and incidentals to design and construct the sound barrier walls, including construction of the drilled shaft foundations.

Drilled Shaft Common, Drilled Shaft Solid Rock, Rock Sounding, and Rock Coring will be incidental to the Sound Barrier Wall.

CODE	PAY ITEM	PAY UNIT
21120EC	Sound Barrier Wall	Square Feet
08003	Foundation Preparation	Lump Sum

APPENDIX

Standard Specifications: Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, latest Edition.

AASHTO: AASHTO Standard Specifications for Highway Bridges, latest Edition with Current Interims.

Guide Specifications: AASHTO Guide Specifications for Structural Design of Barriers, latest Edition with Interims.

The Exposure Category is C.

The permitted Wall Type is precast concrete panels mounted on reinforced concrete pilasters, with drilled shaft foundation. Spread footing foundation may be used where applicable. See Geotechnical Report for specifications.

Finish Requirements:

The finish on all exposed concrete shall match the texture and finish on the existing sound wall on westbound I-265 protecting the Wesley Manor Retirement Community.

Precast Panels – Provide the finish on all exposed concrete on the front face (face toward the roadway) and rear face of precast panels. Place form lining to assure that the grooves, lines, and striations are normal to joints and lined up with adjacent panels with no offset.

Pilasters – Cast pilasters using metal forms. Provide smooth finish on all exposed surfaces.

Color – Tint all exposed faces of concrete pilasters and panels by applying an approved concrete stain. Use outdoor grade coloring agents applied according to the manufacturer's instructions. Apply the stain to all exposed faces of the entire structure after the sound barrier wall has been erected, extending from the top of the wall to twelve inches below finish grade on both sides. Provide uniform color in each continuous sound barrier.

Provide two samples of the precast concrete panels, a minimum of four feet by eight feet, cast using same form liners as proposed for production for the Department’s approval. Retain one sample at the casting yard for a standard of comparison for the production panels. Deliver the second sample to the project site.

Casting and delivering the samples to the job site will not be measured for separate payment, but shall be incidental to Sound Barrier Wall.

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SPECIAL NOTE FOR LIQUIDATED DAMAGES

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Liquidated Damages in the following amounts will be assessed for each hour or part of an hour a lane closure remains in place during periods prohibited by the Traffic Management Plan:

1ST HOUR	EACH HOUR THEREAFTER
$3,000	$10,000

Contrary to KYTC Standard Specifications Section 108.09, Liquidated Damages will be assessed regardless of whether seasonal limitations prohibit the Contractor from performing work on the controlling operation.

All liquidated damages will be applied accumulatively.

All other applicable portions of KYTC Standard Specifications Section 108 apply.

PROJECT COMPLETION DATE

JL04 056 0265 013-014
EMARS: 8475701 D

The specified completion date for this project is November 15, 2012. See Special Note for Liquidated Damages.

STANDARD DRAWINGS

JL04 056 0265 013-014
EMARS: 8475701 D

RBI 001-09	TYPICAL GUARDRAIL INSTALLATIONS
RBI 002-06	TYPICAL GUARDRAIL INSTALLATIONS
RBR 001-11	STEEL BEAM GUARDRAIL (“W” BEAM)
RBR 005-10	GUARDRAIL COMPONENTS
RBR 035-10	GUARDRAIL END TREATMENT TYPE 4A
RBR 100-06	STEEL BEAM GUARDRAIL (THRIE BEAM)
RDB 005-08	DRP BOX INLET TYPE 5D
RDD 040-04	CHANNEL LINING CLASS II AND III
RDI 001-08	CULVERT, ENTRANCE & STORM SEWER PIPE TYPES & COVER HEIGHTS
RDI 020-08	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER PIPE
RDI 021	PIPE BEDDING FOR CULVERTS, ENTRANCE AND STORM SEWER REINFORCED CONCRETE PIPE
RDX 210-02	TEMPORARY SILT FENCE
RDX 225	SILT TRAP TYPE B
TTC 135-01	SHOULDER CLOSURE

Right-of-Way Certification Form

Revised 2/22/11

☐ Federal Funded
☑ State Funded
☑ Original
☐ Re-Certification

This form must be completed and submitted to FHWA with the PS&E package for federal-aid funded Interstate, Appalachia, and Major projects. This form shall also be submitted to FHWA for all federal-aid projects that fall under Conditions No. 2 or 3 outlined elsewhere in this form. When Condition No. 2 or 3 apply, KYTC shall resubmit this ROW Certification prior to construction contract Award. For all other federal-aid projects, this form shall be completed and retained in the KYTC project file.

Date: 5/23/12

Project Name: Sound Barrier I-265
Project #: 1381 JL04 056 475701D
Item #: 5-8613
Letting Date:
County: Jefferson
Federal #:

Description of Project: sound barrier along the south side of I-265 (Gene Snyder Freeway) between milepost 13.6 and 14.0

Projects that require NO new or additional right-of-way acquisitions and/or relocations

☐ The proposed transportation improvement will be built within the existing rights-of -way and there are no properties to be acquired, individuals, families, and businesses ("relocatees") to be relocated, or improvements to be removed as a part of this project.

Projects that require new or additional right-of-way acquisitions and/or relocations

☐ Per 23 CFR 635.309, the KYTC hereby certify that all relocatees have been relocated to decent, safe, and sanitary housing or that KYTC has made available to relocatees adequate replacement housing in accordance with the provisions of the current FHWA directive(s) covering the administration of the Highway Relocation Assistance Program and that at least one of the following three conditions has been met. (Check those that apply.)

☐ **Condition 1.** All necessary rights-of-way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Fair market value has been paid or deposited with the court.

☐ **Condition 2.** Although all necessary rights-of-way have not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Trial or appeal of some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Fair market value has been paid or deposited with the court for most parcels. Fair market value for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract. (See note 1 below.)

Note 1: The KYTC shall re-submit a right-of-way certification form for this project prior to AWARD of **all** Federal-Aid construction contracts. Award must not to be made until after KYTC has obtained full legal possession and fair market value for all parcels has been paid or deposited with the court and FHWA has concurred in the re-submitted right-of-way certification.

Right-of-Way Certification Form

Revised 2/22/11

☐ **Condition 3.** The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. However, all remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. The KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary rights-of-way will not be fully acquired, and/or some occupants will not be relocated, and/or the fair market value will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction. A full explanation and reason for this request, including identification of each such parcel and dates on which acquisitions, payments, and relocations will be completed, is attached to this certification form for FHWA concurrence. (See note 2.)

Note 2: The KYTC may request authorization on this basis only in unique and unusual circumstances. Proceeding to bid letting shall be the exception and never become the rule. In all cases, the KYTC shall make extraordinary efforts to expedite completion of the acquisition, payment for all affected parcels, and the relocation of all relocatees prior to AWARD of all Federal-Aid construction contracts or force account construction.

Approved: _____ Date 5/23/2012
Kentucky Transportation Cabinet
Project Manager

Approved: Ron Geveden _____ _____ 5/23/12
Printed Name Signature Right-of-Way Supervisor

Approved: DAVID L. ORR _____ _____ 6/8/12
Printed Name Signature KYTC, Director of ROW &Utilities

Approved: _____ _____ _____
Printed Name Signature FHWA, ROW Officer (when applicable)

Right-of-Way Certification Form

Revised 2/22/11

Date: 5-23-12

Project Name: Sound Barrier on I-265
Project #: 1381 JL04 056 475701D
Item #: 5-8613
Letting Date: _____

County: JEFFERSON
Federal #: _____

This project has 0 total number of parcels to be acquired, and 0 total number of individuals or families to be relocated, as well as 0 total number of businesses to be relocated.

0 Parcels where acquired by a signed fee simple deed and fair market value has been paid

_____ Parcels have been acquired by IOJ through condemnation and fair market value has been deposited with the court

_____ Parcels have not been acquired at this time (*explain below for each parcel*)

_____ Parcels have been acquired or have a "right of entry" but fair market value has not been paid or has not been deposited with the court *(explain below for each parcel)*

_____ Relocatees have not been relocated from parcels ____, ____, ____, ____, ____, ____, and ____ *(explain below for each parcel)*

Parcel #	Name/Station	Explanation for delayed acquisition, delayed relocation, or delayed payment of fair market value	Proposed date of payment or of relocation

There are 0 billboards and/or 0 cemeteries involved on this project.

There are 0 water or monitoring wells on parcels ____, ____, ____, ____, and ____. All have been acquired and are the responsibility of the project contractor to close/cap.

Form Effective Date: April 1, 2006
Last Revised: February 22, 2011

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
SYP ITEM NUMBER 5-8613.00

GENERAL PROJECT NOTE ON UTILITY PROTECTION
Utility coordination efforts determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS:
LG&E KU has overhead facilities consisting of distribution lines that cross diagonally over I-265/KY 841 Gene Snyder at approximate Station 121+30; low wire elevation 651.49 (29.63 above road). **Metropolitan Sewer District (MSD)** has a 24" sanitary sewer line crossing diagonally under I-265/KY 841 Gene Snyder at approximate Station 121+75.
The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION
N/A

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY A 3RD PARTY IN COORDINATION WITH THIS CONTRACT
N/A

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED AS INCLUDED IN THIS CONTRACT
N/A

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
SYP ITEM NUMBER 5-8613.00

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

The Kentucky Transportation Cabinet makes no guarantees regarding the existence of utilities, the location of utilities, the utility companies in the project scope, or the potential for conflicts encountered during construction. Any location of utilities provided herein has been furnished by the facility owners, field inspection, and/or reviewing record drawings. The accuracy of the information provided is undetermined. It will be the contractor's responsibility to locate utilities before excavating. If necessary, the roadway contractor shall determine the exact location and elevation of utilities by hand digging to expose utilities before excavating in the area of a utility.

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
SYP ITEM NUMBER 5-8613.00

Utility Owners and Contact Person

For

Jefferson County

1. LG&E KU (Electric)
820 West Broadway
Louisville, KY 40202
LG&E Emergency Number (502) 589-1444
KU Emergency Number 1-800-331-7370

Greg Geiser
work: (502) 627-3708
Greg.Geiser@LGE-KU.com

2. LG&E (Gas)
820 West Broadway
Louisville, KY 40202
Emergency Number (502) 589-5511

Greg Geiser
work: (502) 627-3708
Greg.Geiser@LGE-KU.com

3. Louisville Water Company
550 South Third Street
Louisville, KY 40202

Daniel Tegene, PE
(502) 569-3649
DTegene@LWCky.com

4. AT&T KY
3719 Bardstown Road - 2nd Floor
Louisville, KY 40218

Morgan Herndon
Morgan.Herndon@att.com
(502) 458-7312

5. Metropolitan Sewer District
700 West Liberty Street
Louisville, KY 40203-1911

Steve Emly
Emly@MSDLouky.org
(502)540-6509

Brad Selch
SelchB@MSDLouky.org
(502) 540-6614
Send to both contacts

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
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Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
SYP ITEM NUMBER 5-8613.00

6. Insight Communications Company
4701 Commerce Crossings Dr.
Louisville, KY 40229

Deno Barbour
Cell: (502) 664-7395
Office(502) 357-4376
Dwight.Barbour@TWCable.com
Nathen Howerton
Cell: (502) 639-6838
Office: (502) 357-4318
Nathen.Howerton@TWCable.com
Forrest Antique
Cell: (502) 817-6519
Office: (502) 357-4724
Forrest.Antique@TWCable.com

7. Texas Gas Transmission Corporation
10327 Gaslight Way
Louisville, KY 40299

John Weaver
(502) 438-2407
John.Weaver@BWPMLP.com

8. Marathon Pipeline, LLC
539 S Main St, Rm 7642
Findlay, OH 45840

David Wisner
DSWisner@MarathonPetroleum.com
(419) 421-2211

9. Indiana Gas Company Inc
d.b.a. Vectren Energy Delivery of Indiana, Inc
or
Ohio River Pipeline Corporation
2520 Lincoln Drive
Clarksville, Indiana 47129

Mary Barber
MBarber@Vectren.com
(812) 948-4952

Line Maintained By
Texas Gas Transmission, LLC
3800 Frederica Street
Owensboro, Kentucky 42302

Tim Turner
(270) 688-6461
Tim.Turner@bwpmlp.com
Cell: (270) 485-1152

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
SYP ITEM NUMBER 5-8613.00

10. Indiana Utilities Corporation
123 West Chestnut Street
Corydon, Indiana 47112

Kevin Kinney
Ron Timberlake
Jackie Rogers
(812) 738-3235
JackieR@IndianaUtilitiesCorp.com

11. Sprint - Fiber Optics
11370 Enterprise Park Dr.
Sharonville, OH 45241

Joe Thomas
Joe.Thomas@Ericsson.com
Office (513) 612-4204
Cell (937) 209-9754

12. Mid-Valley Pipeline Company
4910 Limaburg Road
Burlington, KY 41005

Todd Calfee (Richard)
(859) 371-4469x14
(859) 630-8271
FAX (866) 699-1185
RTCALFEE@SunocoLogistics.com

13. Level 3 Communications (Transmission)
848 S. 8th St.
Louisville, KY 40203

Kevin Webster
Kevin.Webster@Level3.com
Office (502) 777-8622
Cell (502) 777-8622
Fax (502) 561-6950

Level 3 Communications (Transmission)
848 S. 8th St.
Louisville, KY 40203

Tim Morphew
Tim.Morphew@Level3.com
Office (502) 561-6935
Cell (502) 221-1785
Fax (502) 561-6950

Level 3 Communications (Distribution)
962 South Third Street
Louisville, KY 40203

Mark Sewell
Mark.Sewell@Level3.com
Office (502) 515-9142
Cell (502) 295-0939

Send to all 3 contacts

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
Sound Barrier Wall south side of I-265 @ Smyrna Pkwy
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14. Jefferson County Public Schools (JCPS)
C B Young
Building 7
3001 Crittenden Dr.
Louisville. KY 40209

Jeff Hardy
Jeff.Hardy@Jefferson.kyschools.us
502-485-7975

15. Kentucky Data Link (KDL now Windstream)
Project Manager
3701 Communications Way
Evansville, IN 47715
(Address envelopes ATTN Melissa Gugino)

Rick Cunico (Maintenance)
ph: (618) 648-2420
cell: (812) 760-6602
Fax: (812) 456-4731
(812) 759-7844(Maintenance)
Melissa.gugino@windstream.com
WCI.Maintenance.South@windstream.com

KDL (Windstream)

Timothy Gibson (Fiber location /relocation)
Timothy.Gibson@Windstream.com
(812) 454-6756

Send to both contacts

16 AT&T Legacy
4500 Johnston Pkwy.
Cleveland, OH 44128

Mike Diederich
MD4145@att.com
(216)-587-6267
(216)-212-8556

Don Garr
DRGarr@Hughes.net
Cell: (502) 741-8374

Send to both contacts

17. TWTelecom
Medinger Tower
462 S. 4th St., Suite 2400
Louisville, KY 40202

Jeremy Cornell
Jeremy.Cornell@TWTelecom.com
(502) 992-1168

333 West Vine Street, Suite 330
Lexington, KY 40507

Gerald Long
Gerald.Long@TWTelecom.com
(859) 550-2201

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
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18. City of Taylorsville Sewer & Water
70 Taylorsville Rd., P O Box 279
Taylorsville, KY 40071

Harold Compton
HCompton@TaylorsvilleWater.org
(502) 477-3235
Fax: (502) 477-1310

19. Qwest Communications Company, LLC
700 W Mineral Ave, UTD2734
Littleton, Colorado 80120

George McElvain
George.McElvain@Qwest.com
(303) 992-9931
Cell:720-260-2514
Fax:303-707-3252

20. Shelby Energy Cooperative
P.O. Box 311, 620 Old Finchville Road
Shelbyville, KY 40065

Jason Ginn
Jason@ShelbyEnergy.com
cell: (502) 643-2778
(502) 633-4420

21. Atmos Energy
130 Stonecrest Road Suite105
Shelbyville, KY 40065

Bernie Anderson
cell: (502) 321-8073
Bernie.Anderson@AtmosEnergy.com
(502) 633-2831 ext. 104
OR
Earl Taylor
Earl.Taylor@AtmosEnergy.com
Cell: 859-583-0306
Office: 859-236-2300
Send to both contacts

22. Zayo
701 W. Henry Street
Suite 201
Indianapolis, IN 46225

Bill Hales
Bill.Hales@zayo.com
(502) 500-3661

SPECIAL NOTES FOR UTILITY CLEARANCE
IMPACT ON CONSTRUCTION

Jefferson County
JL04 056 0265 013-014
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23. Crown Castle Network Operations
10170 Linn Station Road
Suite 525
Louisville, KY 40223
(builds cell towers and leases space on them)

Brian Watkins
Brian.Watkins@CrownCastle.com
(502) 318-1323
Brandy Bowling (Brian's supervisor)
Brandy.Bowling@CrownCastle.com
(502) 318-1322
Cindy Shaffer
Cynthia.Shaffer@CrownCastle.com
(502) 318-1313
Chris Gladstone
Chris.Gladstone@CrownCastle.com
(502)689-2162

25. MCI/Verizon(Owns WUTEL)
MCI/Verizon
730 West Henry Street
Indianapolis, IN 46225

Chris Fowler
chris.fowler@verizon.com
Office: (317) 685-8050
Cell: (317) 435-6225

Dave Wiley (Field(502) 439-8783
dave.wiley@one.verizon.com

AIRPORT CONTACTS

Steve Stoker (502) 375-7360 – FFA Location Manager
Jack Stauble (502) 664-9637 cell – FFA Location Technician

Chuck Hensley (502) 380-8356 EXT 356 – Construction Manager
Louisville Regional Airport Authority

Andy Hepfinger (502) 329-3706 – UPS Construction
Brian Knesco (502) 741-2922 – UPS Construction

SPECIAL NOTES FOR UTILITY CLEARANCE
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Jefferson County
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Railroad Companies

1. **C.S.X. Transportation, Inc.**
Contacts:
David Hall, KY Liaison, (502) 815-1865
Milton Holder – crossings – cell (502) 817-2011
John Williams – crossings – cell (502) 376-8745, Office (502) 364-1133
Joe Malandruco (Florida) – signals (904) 245-1160

2. Norfolk - Southern Railway Company
Norfolk - Southern Railway Company (Roy Johnson to provide contact data)
Mr. J. N. Carter, Jr. Chief Engineer
Bridges and Structures
Norfolk Southern Corporation
1200 Peachtree Street
Atlanta, Georgia 30309

3. Paducah and Louisville Railway, Inc.
Gerald Gupton, Office: (270) 444-4386

Kentucky Transportation Cabinet

Highway District 5 (1)

And

_____(2), Construction

Kentucky Pollutant Discharge Elimination System Permit KYR10 Best Management Practices (BMP) plan

Groundwater protection plan

For Highway Construction Activities

For

[Project Description](1)

Project: PCN 05-8613.00

Project information

Note – (1) = Design (2) = Construction (3) = Contractor

1. Owner – Kentucky Transportation Cabinet, District 5 (1)

2. Resident Engineer: (2)

3. Contractor name: (2)
   Address: (2)

   Phone number: (2)
   Contact: (2)
   Contractors agent responsible for compliance with the KPDES permit requirements (3):

4. Project Control Number (2)

5. Route (Address) I-265 Gene Snyder Freeway @ Smyrna Ramp

6. Latitude/Longitude (project mid-point) dd/mm/ss, dd/mm/ss 38/07/3.45, 85/38/30.75

7. County (project mid-point) JEFFERSON

8. Project start date (date work will begin): (2)

9. Projected completion date: (2)

KyTC BMP Plan for Project PCN 05-8613.00

A. Site description:

1. Nature of Construction Activity (from letting project description) Construct Sound Barrier Wall along south side of I-265 Gene Snyder Freeway between MP 13.6 and 14.0 for approximately 2100 ft.

2. Order of major soil disturbing activities (2) and (3)

3. Projected volume of material to be moved: 101 CY

4. Estimate of total project area (acres) 0.3 acres

5. Estimate of area to be disturbed (acres) 0.3 acres

6. Post construction runoff coefficient will be included in the project drainage folder. Persons needing information pertaining to the runoff coefficient will contact the resident engineer to request this information.

7. Data describing existing soil condition (2)

8. Data describing existing discharge water quality (if any) (2)

9. Receiving water name McNeely Lake via Pennsylvania Run Creek

10. TMDLs and Pollutants of Concern in Receiving Waters: Penn Run is an impaired water with a TMDL under development (concerning sedimentation).

11. Site map – Project layout sheet plus the erosion control sheets in the project plans that depict Disturbed Drainage Areas (DDAs) and related information. These sheets depict the existing project conditions with areas delineated by DDA (drainage area bounded by watershed breaks and right of way limits), the storm water discharge locations (either as a point discharge or as overland flow) and the areas that drain to each discharge point. These plans define the limits of areas to be disturbed and the location of control measures. Controls will be either site specific as designated by the designer or will be annotated by the contractor and resident engineer before disturbance commences. The project layout sheet shows the surface waters and wetlands.

12. Potential sources of pollutants:

The primary source of pollutants is solids that are mobilized during storm events. Other sources of pollutants include oil/fuel/grease from servicing and operating construction equipment, concrete washout water, sanitary wastes and trash/debris. (3)

B. Sediment and Erosion Control Measures:

1. Plans for highway construction projects will include erosion control sheets that depict Disturbed Drainage Areas (DDAs) and related information. These plan sheets will show the existing project conditions with areas delineated by DDA within the right of way limits, the discharge points and the areas that drain to each discharge point. Project managers and designers will analyze the DDAs and identify Best Management Practices (BMPs) that are site specific. The balance of the BMPs for the project will be listed in the bid documents for selection and use by the contractor on the project with approval by the resident engineer.

   Projects that do not have DDAs annotated on the erosion control sheets will employ the same concepts for development and managing BMP plans.

2. Following award of the contract, the contractor and resident engineer will annotate the erosion control sheets showing location and type of BMPs for each of the DDAs that will be disturbed at the outset of the project. This annotation will be accompanied by an order of work that reflects the order or sequence of major soil moving activities. The remaining DDAs are to be designated as “Do Not Disturb” until the contractor and resident engineer prepare the plan for BMPs to be employed. The initial BMP’s shall be for the first phase (generally Clearing and Grubbing) and shall be modified as needed as the project changes phases. The BMP Plan will be modified to reflect disturbance in additional DDA’s as the work progresses. <u>All DDA’s will have adequate BMP’s in place before being disturbed.</u>

3. As DDAs are prepared for construction, the following will be addressed for the project as a whole or for each DDA as appropriate:

   - Construction Access – This is the first land-disturbing activity. As soon as construction begins, bare areas will be stabilized with gravel and temporary mulch and/or vegetation.
   - At the beginning of the project, all DDAs for the project will be inspected for areas that are a source of storm water pollutants. Areas that are a source of pollutants will receive appropriate cover

or BMPs to arrest the introduction of pollutants into storm water. Areas that have not been opened by the contractor will be inspected periodically (once per month) to determine if there is a need to employ BMPs to keep pollutants from entering storm water.

- Clearing and Grubbing – The following BMP's will be considered and used where appropriate.
  - Leaving areas undisturbed when possible.
  - Silt basins to provide silt volume for large areas.
  - Silt Traps Type A for small areas.
  - Silt Traps Type C in front of existing and drop inlets which are to be saved
  - Diversion ditches to catch sheet runoff and carry it to basins or traps or to divert it around areas to be disturbed.
  - Brush and/or other barriers to slow and/or divert runoff.
  - Silt fences to catch sheet runoff on short slopes. For longer slopes, multiple rows of silt fence may be considered.
  - Temporary Mulch for areas which are not feasible for the fore mentioned types of protections.
  - Non-standard or innovative methods.
- Cut & Fill and placement of drainage structures - The BMP Plan will be modified to show additional BMP's such as:
  - Silt Traps Type B in ditches and/or drainways as they are completed
  - Silt Traps Type C in front of pipes after they are placed
  - Channel Lining
  - Erosion Control Blanket
  - Temporary mulch and/or seeding for areas where construction activities will be ceased for 21 days or more.
  - Non-standard or innovative methods
- Profile and X-Section in place – The BMP Plan will be modified to show elimination of BMP's which had to be removed and the addition of new BMP's as the roadway was shaped. Probably changes include:
  - Silt Trap Type A, Brush and/or other barriers, Temporary Mulch, and any other BMP which had to be removed for final grading to take place.
  - Additional Silt Traps Type B and Type C to be placed as final drainage patterns are put in place.
  - Additional Channel Lining and/or Erosion Control Blanket.
  - Temporary Mulch for areas where Permanent Seeding and Protection cannot be done within 21 days.
  - Special BMP's such as Karst Policy
- Finish Work (Paving, Seeding, Protect, etc.) – A final BMP Plan will result from modifications during this phase of construction. Probably changes include:

- Removal of Silt Traps Type B from ditches and drainways if they are protected with other BMP's which are sufficient to control erosion, i.e. Erosion Control Blanket or Permanent Seeding and Protection on moderate grades.
- Permanent Seeding and Protection
- Placing Sod
- Planting trees and/or shrubs where they are included in the project

➢ BMP's including Storm Water Management Devices such as velocity dissipation devices and Karst policy BMP's to be installed during construction to control the pollutants in storm water discharges that will occur after construction has been completed are :

C. Other Control Measures

1. No solid materials, including building materials, shall be discharged to waters of the commonwealth, except as authorized by a Section 404 permit.

2. Waste Materials

All waste materials that may leach pollutants (paint and paint containers, caulk tubes, oil/grease containers, liquids of any kind, soluble materials, etc.) will be collected and stored in appropriate covered waste containers. Waste containers shall be removed from the project site on a sufficiently frequent basis as to not allow wastes to become a source of pollution. All personnel will be instructed regarding the correct procedure for waste disposal. Wastes will be disposed in accordance with appropriate regulations. Notices stating these practices will be posted in the office.

3. Hazardous Waste

All hazardous waste materials will be managed and disposed of in the manner specified by local or state regulation. The contractor shall notify the Resident Engineer if there any hazardous wastes being generated at the project site and how these wastes are being managed. Site personnel will be instructed with regard to proper storage and handling of hazardous wastes when required. The Transportation Cabinet will file for generator, registration when appropriate, with the Division of Waste Management and advise the contractor regarding waste management requirements.

4. Spill Prevention

The following material management practices will be used to reduce the risk of spills or other exposure of materials and substances to the weather and/or runoff.

- **Good Housekeeping:**

The following good housekeeping practices will be followed onsite during the construction project.

- An effort will be made to store only enough product required to do the job
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure
- Products will be kept in their original containers with the original manufacturer's label
- Substances will not be mixed with one another unless recommended by the manufacturer
- Whenever possible, all of the product will be used up before disposing of the container
- Manufacturers' recommendations for proper use and disposal will be followed
- The site contractor will inspect daily to ensure proper use and disposal of materials onsite

- **Hazardous Products:**

These practices will be used to reduce the risks associated with any and all hazardous materials.

- Products will be kept in original containers unless they are not resealable
- Original labels and material safety data sheets (MSDS) will be reviewed and retained
- Contractor will follow procedures recommended by the manufacturer when handling hazardous materials
- If surplus product must be disposed of, manufacturers' or state/local recommended methods for proper disposal will be followed

The following product-specific practices will be followed onsite:

- **Petroleum Products:**

Vehicles and equipment that are fueled and maintained on site will be monitored for leaks, and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products onsite will be stored in tightly sealed containers, which are clearly labeled and will be protected from exposure to weather.

The contractor shall prepare an Oil Pollution Spill Prevention Control and Countermeasure plan when the project that involves the storage of petroleum products in 55 gallon or larger containers with a total combined storage capacity of 1,320 gallons. This is a requirement of 40 CFR 112.

This project (will / will not) (3) have over 1,320 gallons of petroleum products with a total capacity, sum of all containers 55 gallon capacity and larger.

- **Fertilizers:**

Fertilizers will be applied at rates prescribed by the contract, standard specifications or as directed by the resident engineer. Once applied, fertilizer will be covered with mulch or blankets or worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

- **Paints:**

All containers will be tightly sealed and stored indoors or under roof when not being used. Excess paint or paint wash water will not be discharged to the drainage or storm sewer system but will be properly disposed of according to manufacturers' instructions or state and local regulations.

- **Concrete Truck Washout:**

Concrete truck mixers and chutes will not be washed on pavement, near storm drain inlets, or within 75 feet of any ditch, stream, wetland, lake, or sinkhole. Where possible, excess concrete and wash water will be discharged to areas prepared for pouring new concrete, flat areas to be paved that are away from ditches or drainage system features, or other locations that will not drain off site. Where this approach is not possible, a shallow earthen wash basin will be excavated away from ditches to receive the wash water

- **Spill Control Practices**

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup**:**

- Manufacturers' recommended methods for spill cleanup will be clearly posted. All personnel will be made aware of procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area. Equipment and materials will include as

appropriate, brooms, dust pans, mops, rags, gloves, oil absorbents, sand, sawdust, and plastic and metal trash containers.

- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contract with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state/local agency as required by KRS 224 and applicable federal law.
- The spill prevention plan will be adjusted as needed to prevent spills from reoccurring and improve spill response and cleanup.
- Spills of products will be cleaned up promptly. Wastes from spill clean up will be disposed in accordance with appropriate regulations.

D. Other State and Local Plans

This BMP plan shall include any requirements specified in sediment and erosion control plans, storm water management plans or permits that have been approved by other state or local officials. Upon submittal of the NOI, other requirements for surface water protection are incorporated by reference into and are enforceable under this permit (even if they are not specifically included in this BMP plan). This provision does not apply to master or comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit issued for the construction site by state or local officials.

E. Maintenance

1. The BMP plan shall include a clear description of the maintenance procedures necessary to keep the control measures in good and effective operating condition.

- Maintenance of BMPs during construction shall be a result of weekly and post rain event inspections with action being taken by the contractor to correct deficiencies.

- Post Construction maintenance will be a function of normal highway maintenance operations. Following final project acceptance by the cabinet, district highway crews will be responsible for identification and correction of deficiencies regarding ground cover and cleaning of storm water BMPs. The project manager shall identify any BMPs that will be for the purpose of post construction storm water management with specific guidance for any non-routine maintenance.

F. Inspections

Inspection and maintenance practices that will be used to maintain erosion and sediment controls:

- All erosion prevention and sediment control measures will be inspected at least once each week and following any rain of one-half inch or more.
- Inspections will be conducted by individuals that have received KyTC Grade Level II training or other qualification as prescribed by the cabinet that includes instruction concerning sediment and erosion control.
- Inspection reports will be written, signed, dated, and kept on file.
- Areas at final grade will be seeded and mulched within 14 days.
- Areas that are not at final grade where construction has ceased for a period of 21 days or longer and soil stock piles shall receive temporary mulch no later than 14 days from the last construction activity in that area.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of being reported.
- Built-up sediment will be removed from behind the silt fence before it has reached halfway up the height of the fence.
- Silt fences will be inspected for bypassing, overtopping, undercutting, depth of sediment, tears, and to ensure attachment to secure posts.
- Sediment basins will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 70 percent of the design capacity and at the end of the job.
- Diversion dikes and berms will be inspected and any breaches promptly repaired. Areas that are eroding or scouring will be repaired and re-seeded / mulched as needed.
- Temporary and permanent seeding and mulching will be inspected for bare spots, washouts, and healthy growth. Bare or eroded areas will be repaired as needed.
- All material storage and equipment servicing areas that involve the management of bulk liquids, fuels, and bulk solids will be inspected weekly for conditions that represent a release or possible release of pollutants to the environment.

G. Non – Storm Water discharges

It is expected that non-storm water discharges may occur from the site during the construction period. Examples of non-storm water discharges include:

- Water from water line flushings.
- Water form cleaning concrete trucks and equipment.
- Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
- Uncontaminated groundwater and rain water (from dewatering during excavation).

All non-storm water discharges will be directed to the sediment basin or to a filter fence enclosure in a flat vegetated infiltration area or be filtered via another approved commercial product.

H. Groundwater Protection Plan (3)

This plan serves as the groundwater protection plan as required by 401 KAR 5:037.

- Contractors statement: (3)

The following activities, as enumerated by 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan, will or may be may be conducted as part of this construction project:

_____ 2. (e) land treatment or land disposal of a pollutant;

_____ 2. (f) Storing, …, or related handling of hazardous waste, solid waste or special waste, …, in tanks, drums, or other containers, or in piles, (This does not include wastes managed in a container placed for collection and removal of municipal solid waste for disposal off site);

_____ 2. (g) …. Handling of materials in bulk quantities (equal or greater than 55 gallons or 100 pounds net dry weight transported held in an individual container) that, if released to the environment, would be a pollutant;

_____ 2. (j) Storing or related handling of road oils, dust suppressants, …., at a central location;

_____ 2. (k) Application or related handling of road oils, dust suppressants or deicing materials, (does not include use of chloride-based deicing materials applied to roads or parking lots);

_____ 2. (m) Installation, construction, operation, or abandonment of wells, bore holes, or core holes, (this does not include bore holes for the purpose of explosive demolition);

KyTC BMP Plan for Project PCN 05-8613.00

Or, check the following only if there are no qualifying activities

_____ There are no activities for this project as listed in 401 KAR 5:037 Section 2 that require the preparation and implementation of a groundwater protection plan.

The contractor is responsible for the preparation of a plan that addresses the

401 KAR 5:037 Section 3. (3) Elements of site specific groundwater protection plan:

(a) General information about this project is covered in the Project information;
(b) Activities that require a groundwater protection plan have been identified above;
(c) Practices that will protect groundwater from pollution are addressed in section C. Other control measures.
(d) Implementation schedule – all practices required to prevent pollution of groundwater are to be in place prior to conducting the activity;
(e) Training is required as a part of the ground water protection plan. All employees of the contractor, sub-contractor and resident engineer personnel will be trained to understand the nature and requirements of this plan as they pertain to their job function(s). Training will be accomplished within one week of employment and annually thereafter. A record of training will be maintained by the contractor with a copy provide to the resident engineer.
(f) Areas of the project and groundwater plan activities will be inspected as part of the weekly sediment and erosion control inspections
(g) Certification (see signature page.)

KyTC BMP Plan for Project PCN 05-8613.00

Contractor and Resident Engineer Plan certification

The contractor that is responsible for implementing this BMP plan is identified in the Project Information section of this plan.

The following certification applies to all parties that are signatory to this BMP plan:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Further, this plan complies with the requirements of 401 KAR 5:037. By this certification, the undersigned state that the individuals signing the plan have reviewed the terms of the plan and will implement its provisions as they pertain to ground water protection.

Resident Engineer and Contractor Certification:

(2) Resident Engineer signature

Signed _____title_____, _____
Typed or printed name[2] signature

(3) Signed _____title_____, _____
Typed or printed name[1] signature

1. Contractors Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

2. KyTC note: to be signed by the Chief District Engineer or a person designated to have the authority to sign reports by such a person (usually the resident engineer) in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601 Reference the Project Control Number (PCN) and KPDES number when one has been issued.

Sub-Contractor Certification

The following sub-contractor shall be made aware of the BMP plan and responsible for implementation of BMPs identified in this plan as follows:

Subcontractor

Name:
Address:
Address:

Phone:

The part of BMP plan this subcontractor is responsible to implement is:

I certify under penalty of law that I understand the terms and conditions of the general Kentucky Pollutant Discharge Elimination System permit that authorizes the storm water discharges, the BMP plan that has been developed to manage the quality of water to be discharged as a result of storm events associated with the construction site activity and management of non-storm water pollutant sources identified as part of this certification.

Signed _____title_____, _____
Typed or printed name[1] signature

1. Sub Contractor Note: to be signed by a person who is the owner, a responsible corporate officer, a general partner or the proprietor or a person designated to have the authority to sign reports by such a person in accordance with 401 KAR 5:060 Section 9. This delegation shall be in writing to: Manager, KPDES Branch, Division of Water, 14 Reilly Road, Frankfort Kentucky 40601. Reference the Project Control Number (PCN) and KPDES number when one has been issued.

KENTUCKY TRANSPORTATION CABINET

COMMUNICATING ALL PROMISES (CAP)

JEFFERSON COUNTY

5-8613.00

(NO CAPS INVOLVED IN PROJECT)

June 8, 2012

PART II

SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2012 with the 2012 Revision.*

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SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
3) Provide a controller consisting of:
   a) Keyboard or keypad.
   b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
   c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
   d) Logic circuitry to control the sequence of messages and flash rate.
4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
11) Provide a photocell control to provide automatic dimming.

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12) Allow an on-off flashing sequence at an adjustable rate.
13) Provide a sight to aim the message.
14) Provide a LED display color of approximately 590 nm amber.
15) Provide a controller that is password protected.
16) Provide a security device that prevents unauthorized individuals from accessing the controller.
17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/⇒⇒⇒/
/KEEP/LEFT/⇐⇐⇐/
/LOOSE/GRAVEL/AHEAD/
/RD WORK/NEXT/**MILES/
/TWO WAY/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/
/REDUCE/SPEED/**MPH/
/BRIDGE/WORK/***0 FT/
/MAX/SPEED/**MPH/
/SURVEY/PARTY/AHEAD/
/MIN/SPEED/**MPH/
/ICY/BRIDGE/AHEAD/ /ONE LANE/BRIDGE/AHEAD/
/ROUGH/ROAD/AHEAD/
/MERGING/TRAFFIC/AHEAD/
/NEXT/***/MILES/
/HEAVY/TRAFFIC/AHEAD/
/SPEED/LIMIT/**MPH/
/BUMP/AHEAD/
/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

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the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

Code	Pay Item	Pay Unit
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS

LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. NONDISCRIMINATION OF EMPLOYEES

AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age (between forty and seventy). The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, disability or age (between forty and seventy), except that such notice or advertisement may indicate a preference, limitation, or specification based on religion, or national origin when religion, or national origin is a bona fide occupational qualification for employment.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age (between forty and seventy), in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

III. PAYMENT OF PREDETERMINED MINIMUM WAGES

1. These special provisions are supplemented elsewhere in the contract by special provisions which set forth certain predetermined minimum wage rates. The contractor shall pay not less than those rates.

2. The minimum wage determination schedule shall be posted by the contractor, in a manner prescribed by the Department of Highways, at the site of the work in prominent places where it can be easily seen by the workers.

IV. STATEMENTS AND PAYROLLS

1. All contractors and subcontractors affected by the terms of KRS 337.505 to 337.550 shall keep full and accurate payroll records covering all disbursements of wages to their employees to whom they are required to pay not less than the prevailing rate of wages. Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of one (1) year from the date of completion of this contract.

2. The payroll records shall contain the name, address and social security number of each employee, his correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid.

3. The contractor shall make his daily records available at the project site for inspection by the State Department of Highways contracting office or his authorized representative.

Periodic investigations shall be conducted as required to assure compliance with the labor provisions of the contract. Interrogation of employees and officials of the contractor shall be permitted during working hours.

Aggrieved workers, Highway Managers, Assistant District Engineers, Resident Engineers and Project Engineers shall report all complaints and violations to the Division of Contract Procurement.

The contractor shall be notified in writing of apparent violations. The contractor may correct the reported violations and notify the Department of Highways of the action taken or may request an informal hearing. The request for hearing shall be in writing within ten (10) days after receipt of the notice of the reported violation. The contractor may submit

records and information which will aid in determining the true facts relating to the reported violations.

Any person or organization aggrieved by the action taken or the findings established as a result of an informal hearing by the Division of Contract Procurement may request a formal hearing.

4. The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payments, the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

5. No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

6. No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

7. Every employee on the work covered by this contract shall be permitted to lodge, board, and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

8. Every employee on the project covered by this contract shall be an employee of either the prime contractor or an approved subcontractor.

9. No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

10. No individual shall be employed as a laborer or mechanic on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other equipment from individuals.

No Covered employee may be employed on the work except in accordance with the classification set forth in the schedule mentioned above; provided, however, that in the event additional classifications are required, application shall be made by the contractor to the Department of Highways and (1) the Department shall request appropriate classifications and rates from the proper agency, or (2) if there is urgent need for additional classification to avoid undue delay in the work, the contractor may employ such workmen at rates deemed comparable to rates established for similar classifications provided he has made written application through the Department of Highways, addressed to the proper agency, for the supplemental rates. The contractor shall retroactively adjust, upon receipt of the supplemental rates schedule, the wages of any employee paid less than the established rate and may adjust the wages of any employee overpaid.

11. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any work-week in which he is employed on such work, to work in excess of eight hours in any calendar day or in excess of forty hours in such work-week unless such laborer or mechanic receives compensation at a rate not less than one and one half times his basic rate of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in such work-week. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. This agreement shall be in writing and shall be executed prior to the employee working in excess of eight (8) hours, but not more than ten (10) hours, in any one (1) calendar day.

12. Payments to the contractor may be suspended or withheld due to failure of the contractor to pay any laborer or mechanic employed or working on the site of the work, all or part of the wages required under the terms of the contract. The Department may suspend or withhold payments only after the contractor has been given written notice of the alleged violation and the contractor has failed to comply with the wage determination of the Department of Highways.

13. Contractors and subcontractors shall comply with the sections of Kentucky Revised Statutes, Chapter 337 relating to contracts for Public Works.

Revised 2-16-95

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (6) provides:

No present or former public servant shall, within six (6) months of following termination of his office or employment, accept employment, compensation or other economic benefit from any person or business that contracts or does business with the state in matters in which he was directly involved during his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved in state government. This subsection shall not prohibit the performance of ministerial functions, including, but not limited to, filing tax returns, filing applications for permits or licenses, or filing incorporation papers.

KRS 11A.040 (8) states:

A former public servant shall not represent a person in a matter before a state agency in which the former public servant was directly involved, for a period of one (1) year after the latter of:

a) The date of leaving office or termination of employment; or
b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, Room 136, Capitol Building, 700 Capitol Avenue, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address: **https://www.eProcurement.ky.gov**.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

General Decision Number: KY120125 06/22/2012 KY125

Superseded General Decision Number: KY20100211

State: Kentucky

Construction Type: Highway

Counties: Anderson, Bath, Bourbon, Boyd, Boyle, Bracken, Breckinridge, Bullitt, Carroll, Carter, Clark, Elliott, Fayette, Fleming, Franklin, Gallatin, Grant, Grayson, Greenup, Hardin, Harrison, Henry, Jefferson, Jessamine, Larue, Lewis, Madison, Marion, Mason, Meade, Mercer, Montgomery, Nelson, Nicholas, Oldham, Owen, Robertson, Rowan, Scott, Shelby, Spencer, Trimble, Washington and Woodford Counties in Kentucky.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Modification Number	Publication Date
0	01/06/2012
1	01/13/2012
2	01/20/2012
3	04/13/2012
4	05/11/2012
5	05/25/2012
6	06/01/2012
7	06/22/2012

BRIN0004-003 06/01/2011

BRECKENRIDGE COUNTY

	Rates	Fringes
BRICKLAYER	$ 24.11	10.07

BRKY0001-005 06/01/2011

BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, & TRIMBLE COUNTIES:

	Rates	Fringes
BRICKLAYER	$ 24.11	10.07

BRKY0002-006 06/01/2011

BRACKEN, GALLATIN, GRANT, MASON & ROBERTSON COUNTIES:

	Rates	Fringes
BRICKLAYER	$ 26.57	10.26

BRKY0007-004 06/01/2011

BOYD, CARTER, ELLIOT, FLEMING, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
BRICKLAYER	$ 28.29	16.80

BRKY0017-004 06/01/2009

ANDERSON, BATH, BOURBON, BOYLE, CLARK, FAYETTE, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, OWEN, SCOTT, WASHINGTON & WOODFORD COUNTIES:

	Rates	Fringes
BRICKLAYER	$ 24.11	9.97

CARP0064-001 07/01/2011

	Rates	Fringes
CARPENTER	$ 25.95	13.26
Diver	$ 39.30	13.26
PILEDRIVERMAN	$ 26.20	13.26

ELEC0212-008 05/31/2011

BRACKEN, GALLATIN and GRANT COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 26.11	14.94

ELEC0212-014 06/27/2011

BRACKEN, GALLATIN & GRANT COUNTIES:

	Rates	Fringes
Sound & Communication Technician	$ 21.55	8.46

ELEC0317-012 06/01/2011

BOYD, CARTER, ELLIOT & ROWAN COUNTIES:

	Rates	Fringes
Electricians:		
Cable Splicer	$ 32.68	18.13
Electrician	$ 31.87	19.96

ELEC0369-007 05/30/2012

ANDERSON, BATH, BOURBON, BOYLE, BRECKINRIDGE, BULLITT, CARROLL, CLARK, FAYETTE, FRAONKLIN, GRAYSON, HARDIN, HARRISON, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER,

MONTGOMERY, NELSON, NICHOLAS, OLDHAM, OWEN, ROBERTSON, SCOTT, SHELBY, SPENCER, TRIMBLE, WASHINGTON, & WOODFORD COUNTIES:

	Rates	Fringes
ELECTRICIAN	$ 29.32	13.78

ELEC0575-002 05/30/2011

FLEMING, GREENUP, LEWIS & MASON COUNTIES:

	Rates	Fringes
ELECTRICIAN	$ 30.69	13.32

ENGI0181-018 07/01/2011

	Rates	Fringes
Operating Engineer:		
GROUP 1	$ 26.50	13.00
GROUP 2	$ 24.08	13.00
GROUP 3	$ 24.46	13.00
GROUP 4	$ 23.82	13.00

OPERATING ENGINEER CLASSIFICATIONS

GROUP 1 - A-Frame Winch Truck; Auto Patrol; Backfiller; Batcher Plant; Bituminous Paver; Bituminous Transfer Machine; Boom Cat; Bulldozer; Mechanic; Cableway; Carry-All Scoop; Carry Deck Crane; Central Compressor Plant; Cherry Picker; Clamshell; Concrete Mixer (21 cu. ft. or Over); Concrete Paver; Truck-Mounted Concrete Pump; Core Drill; Crane; Crusher Plant; Derrick; Derrick Boat; Ditching & Trenching Machine; Dragline; Dredge Operator; Dredge Engineer; Elevating Grader & Loaders; Grade-All; Gurries; Heavy Equipment Robotics Operator/Mechanic; High Lift; Hoe-Type Machine; Hoist (Two or More Drums); Hoisting Engine (Two or More Drums); Horizontal Directional Drill Operator; Hydrocrane; Hyster; KeCal Loader; LeTourneau; Locomotive; Mechanic; Mechanically Operated Laser Screed; Mechanic Welder; Mucking Machine; Motor Scraper; Orangepeel Bucket; Overhead Crane; Piledriver; Power Blade; Pumpcrete; Push Dozer; Rock Spreader, attached to equipment; Rotary Drill; Roller (Bituminous); Rough Terrain Crane; Scarifier; Scoopmobile; Shovel; Side Boom; Subgrader; Tailboom; Telescoping Type Forklift; Tow or Push Boat; Tower Crane (French, German & other types); Tractor Shovel; Truck Crane; Tunnel Mining Machines, including Moles, Shields or similar types of Tunnel Mining Equipment

GROUP 2 - Air Compressor (Over 900 cu. ft. per min.); Bituminous Mixer; Boom Type Tamping Machine; Bull Float; Concrete Mixer (Under 21 cu. ft.); Dredge Engineer; Electric Vibrator; Compactor/Self-Propelled Compactor; Elevator (One Drum or Buck Hoist); Elevator (When used to Hoist Building Material); Finish Machine; Firemen & Hoist (One Drum); Flexplane; Forklift (Regardless of Lift Height); Form Grader; Joint Sealing Machine; Outboard Motor

Boat; Power Sweeper (Riding Type); Roller (Rock); Ross Carrier; Skid Mounted or Trailer Mounted Conrete Pump; Skid Steer Machine with all Attachments; Switchman or Brakeman; Throttle Valve Person; Tractair & Road Widening Trencher; Tractor (50 H.P. or Over); Truck Crane Oiler; Tugger; Welding Machine; Well Points; & Whirley Oiler

GROUP 3 - All Off Road Material Handling Equipment; Greaser on Grease Facilities servicing Heavy Equipment

GROUP 4 - Bituminous Distributor; Burlap & Curing Machine; Cement Gun; Concrete Saw; Conveyor; Deckhand Oiler; Grout Pump; Hydraulic Post Driver; Hydro Seeder; Mud Jack; Oiler; Paving Joint Machine; Power Form Handling Equipment; Pump; Roller (Earth); Steerman; Tamping Machine; Tractor (Under 50 H.P.); & Vibrator

CRANES - with booms 150 ft. & Over (Including JIB), and where the length of the boom in combination with the length of the piling leads equals or exceeds 150 ft. - $1.00 over Group 1 rate

EMPLOYEES ASSIGNED TO WORK BELOW GROUND LEVEL ARE TO BE PAID 10%
ABOVE BASIC WAGE RATE. THIS DOES NOT APPLY TO OPEN CUT WORK.

IRON0044-009 06/01/2012

BRACKEN, GALLATIN, GRANT, HARRISON, ROBERTSON,
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);
CARROLL (Eastern third, including the Township of Ghent);
FLEMING (Western part, excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains, Ringos Mills, Tilton & Wallingford);
MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);
NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);
OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);
SCOTT (Northern two-thirds, including Townships of Biddle, Davis, Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall)

	Rates	Fringes
IRONWORKER		
Fence Erector	$ 22.50	15.10
Structural	$ 24.80	15.10

IRON0070-006 06/01/2012

ANDERSON, BOYLE, BRECKINRIDGE, BULLITT, FAYETTE, FRANKLIN, GRAYSON, HARDIN, HENRY, JEFFERSON, JESSAMINE, LARUE, MADISON, MARION, MEADE, MERCER, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE, WASHINGTON & WOODFORD
BOURBON (Southern two-thirds, including Townships of Austerlity, Centerville, Clintonville, Elizabeth, Hutchison, Littlerock, North Middletown & Paris);
CARROLL (Western two-thirds, including Townships of Carrollton, Easterday, English, Locust, Louis, Prestonville & Worthville);
CLARK (Western two-thirds, including Townships of Becknerville, Flanagan, Ford, Pine Grove, Winchester & Wyandotte);
OWEN (Eastern eighth, including Townships of Glenmary, Gratz, Monterey, Perry Park & Tacketts Mill);
SCOTT (Southern third, including Townships of Georgetown, Great Crossing, Newtown, Stampling Ground & Woodlake);

	Rates	Fringes
IRONWORKER	$ 26.34	18.58

IRON0372-006 01/01/2012

BRACKEN, GALLATIN, GRANT, HARRISON and ROBERTSON
BOURBON (Northern third, including Townships of Jackson, Millersburg, Ruddel Mills & Shawhan);
CARROLL (Eastern third, including the Township of Ghent);
FLEMING (Western part, Excluding Townships of Beechburg, Colfax, Elizaville, Flemingsburg, Flemingsburg Junction, Foxport, Grange City, Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton, Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains,
Ringos Mills, Tilton & Wallingford);
MASON (Western two-thirds, including Townships of Dover, Lewisburg, Mays Lick, Maysville, Minerva, Moranburg, Murphysville, Ripley, Sardis, Shannon, South Ripley & Washington);
NICHOLAS (Townships of Barefoot, Barterville, Carlisle, Ellisville, Headquarters, Henryville, Morningglory, Myers & Oakland Mills);
OWEN (Townships of Beechwood, Bromley, Fairbanks, Holbrook, Jonesville, Long Ridge, Lusby's Mill, New, New Columbus, New Liberty, Owenton, Poplar Grove, Rockdale, Sanders, Teresita & Wheatley);
SCOTT (Northern two-thirds, including Townships of Biddle, Davis,Delaplain, Elmville, Longlick, Muddy Ford, Oxford, Rogers Gap, Sadieville, Skinnersburg & Stonewall) COUNTIES

	Rates	Fringes
IRONWORKER, REINFORCING		
Beyond 30-mile radius of Hamilton County, Ohio Courthouse	$ 26.75	17.55
Up to & including 30-mile radius of Hamilton County, Ohio Courthouse	$ 26.50	17.55

IRON0769-007 06/01/2012

BATH, BOYD, CARTER, ELLIOTT, GREENUP, LEWIS, MONTGOMERY & ROWAN
CLARK (Eastern third, including townships of Bloomingdale,
Hunt, Indian Fields, Kiddville, Loglick, Rightangele & Thomson);
FLEMING (Townships of Beechburg, Colfax, Elizaville,
Flemingsburg, Flemingsburg Junction, Foxport, Grange City,
Hillsboro, Hilltop, Mount Carmel, Muses Mills, Nepton,
Pecksridge, Plummers Landing, Plummers Mill, Poplar Plains,
Ringos Mills, Tilton & Wallingford);
MASON (Eastern third, including Townships of Helena, Marshall,
Orangeburg, Plumville & Springdale);
NICHOLAS (Eastern eighth, including the Township of Moorefield
Sprout)

	Rates	Fringes
IRONWORKER		
ZONE 1	$ 30.52	20.08
ZONE 2	$ 30.92	20.08
ZONE 3	$ 32.52	20.08

ZONE 1 - Up to 10 mi. radius of union hall, Ashland, Ky.,
1643 Greenup Avenue
ZONE 2 - 10 to 50 mi. radius of union hall;
ZONE 3 - 50 mi. radius and beyond

LABO0189-003 07/01/2011

BATH, BOURBON, BOYD, BOYLE, BRACKEN, CARTER, CLARK, ELLIOTT,
FAYETTE, FLEMING, FRANKLIN, GALLATIN, GRANT, GREENUP, HARRISON,
JESSAMINE, LEWIS, MADISON, MASON, MERCER, MONTGOMERY, NICHOLAS,
OWEN, ROBERTSON, ROWAN, SCOTT, & WOOLFORD COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1	$ 20.81	10.85
GROUP 2	$ 21.06	10.85
GROUP 3	$ 21.11	10.85
GROUP 4	$ 21.71	10.85

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement
Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter
Tender; Cement Mason Tender; Cleaning of Machines;
Concrete; Demolition; Dredging; Environmental - Nuclear,
Radiation, Toxic & Hazardous Waste - Level D; Flagperson;
Grade Checker; Hand Digging & Hand Back Filling; Highway
Marker Placer; Landscaping, Mesh Handler & Placer; Puddler;
Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail
& Fence Installer; Signal Person; Sound Barrier Installer;
Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper;
Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer);
Brickmason Tender; Mortar Mixer Operator; Scaffold Builder;

Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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LABO0189-008 07/01/2011

ANDERSON, BULLITT, CARROLL, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1	$ 21.26	10.40
GROUP 2	$ 21.51	10.40
GROUP 3	$ 21.56	10.40
GROUP 4	$ 22.16	10.40

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder

Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman; Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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LABO0189-009 07/01/2011

BRECKINRIDGE & GRAYSON COUNTIES

	Rates	Fringes
Laborers:		
GROUP 1	$ 21.51	10.15
GROUP 2	$ 21.76	10.15
GROUP 3	$ 21.81	10.15
GROUP 4	$ 22.41	10.15

LABORERS CLASSIFICATIONS

GROUP 1 - Aging & Curing of Concrete; Asbestos Abatement Worker; Asphalt Plant; Asphalt; Batch Truck Dump; Carpenter Tender; Cement Mason Tender; Cleaning of Machines; Concrete; Demolition; Dredging; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level D; Flagperson; Grade Checker; Hand Digging & Hand Back Filling; Highway Marker Placer; Landscaping, Mesh Handler & Placer; Puddler; Railroad; Rip-rap & Grouter; Right-of-Way; Sign, Guard Rail & Fence Installer; Signal Person; Sound Barrier Installer; Storm & Sanitary Sewer; Swamper; Truck Spotter & Dumper; Wrecking of Concrete Forms; General Cleanup

GROUP 2 - Batter Board Man (Sanitary & Storm Sewer); Brickmason Tender; Mortar Mixer Operator; Scaffold Builder; Burner & Welder; Bushammer; Chain Saw Operator; Concrete Saw Operator; Deckhand Scow Man; Dry Cement Handler; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Level C; Forklift Operator for Masonary; Form Setter; Green Concrete Cutting; Hand Operated Grouter & Grinder Machine Operator; Jackhammer; Pavement Breaker; Paving Joint Machine; Pipelayer; Plastic Pipe Fusion; Power Driven Georgia Buggy & Wheel Barrow; Power Post Hole Digger; Precast Manhole Setter; Walk-Behind Tamper; Walk-Behind Trencher; Sand Blaster; Concrete Chipper; Surface Grinder; Vibrator Operator; Wagon Driller

GROUP 3 - Asphalt Luteman & Raker; Gunnite Nozzleman;

Gunnite Operator & Mixer; Grout Pump Operator; Side Rail Setter; Rail Paved Ditches; Screw Operator; Tunnel (Free Air); Water Blaster

GROUP 4 - Caisson Worker (Free Air); Cement Finisher; Environmental - Nuclear, Radiation, Toxic & Hazardous Waste - Levels A & B; Miner & Driller (Free Air); Tunnel Blaster; & Tunnel Mucker (Free Air); Directional & Horizontal Boring; Air Track Drillers (All Types); Powdermen & Blasters; Troxler & Concrete Tester if Laborer is Utilized

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PAIN0012-005 06/11/2005

BATH, BOURBON, BOYLE, CLARK, FAYETTE, FLEMING, FRANKLIN, HARRISON, JESSAMINE, MADISON, MERCER, MONTGOMERY, NICHOLAS, ROBERTSON, SCOTT & WOODFORD COUNTIES:

	Rates	Fringes
PAINTER		
Bridge/Equipment Tender and/or Containment Builder	$ 18.90	5.90
Brush & Roller	$ 21.30	5.90
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement	$ 22.30	5.90
Sandblasting & Waterblasting	$ 22.05	5.90
Spray	$ 21.80	5.90

PAIN0012-017 05/01/2012

BRACKEN, GALLATIN, GRANT, MASON & OWEN COUNTIES:

	Rates	Fringes
PAINTER (Heavy & Highway Bridges - Guardrails - Lightpoles - Striping)		
Bridge Equipment Tender and Containment Builder	$ 20.49	8.33
Brush & Roller	$ 23.10	8.33
Elevated Tanks; Steeplejack Work; Bridge & Lead Abatement	$ 24.10	8.33
Sandblasting & Water Blasting	$ 23.85	8.33
Spray	$ 23.60	8.33

PAIN0118-004 05/01/2010

ANDERSON, BRECKINRIDGE, BULLITT, CARROLL, GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES:

	Rates	Fringes
PAINTER		

Brush & Roller	$ 18.50	10.30
Spray, Sandblast, Power Tools, Waterblast & Steam Cleaning	$ 19.50	10.30

PAIN1072-003 12/01/2011

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS and ROWAN COUNTIES

	Rates	Fringes
Painters:		
Bridges; Locks; Dams; Tension Towers & Energized Substations	$ 29.33	14.20
Power Generating Facilities	$ 26.09	14.20

PLUM0248-003 06/01/2012

BOYD, CARTER, ELLIOTT, GREENUP, LEWIS & ROWAN COUNTIES:

	Rates	Fringes
Plumber and Steamfitter	$ 33.00	16.93

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* PLUM0392-007 06/01/2012

BRACKEN, CARROLL (Eastern Half), GALLATIN, GRANT, MASON, OWEN & ROBERTSON COUNTIES:

	Rates	Fringes
Plumbers and Pipefitters	$ 29.30	16.59

PLUM0502-003 08/01/2011

BRECKINRIDGE, BULLITT, CARROLL (Western Half), FRANKLIN (Western three-fourths), GRAYSON, HARDIN, HENRY, JEFFERSON, LARUE, MARION, MEADE, NELSON, OLDHAM, SHELBY, SPENCER, TRIMBLE & WASHINGTON COUNTIES

	Rates	Fringes
PLUMBER	$ 31.00	16.13

SUKY2010-160 10/08/2001

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 16.57	7.34
GROUP 2	$ 16.68	7.34
GROUP 3	$ 16.86	7.34
GROUP 4	$ 16.96	7.34

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Mobile Batch Truck Tender

GROUP 2 - Greaser; Tire Changer; & Mechanic Tender

GROUP 3 - Single Axle Dump; Flatbed; Semi-trailer or Pole Trailer when used to pull building materials and equipment; Tandem Axle Dump; Distributor; Mixer; & Truck Mechanic

GROUP 4 - Euclid & Other Heavy Earthmoving Equipment & Lowboy; Articulator Cat; 5-Axle Vehicle; Winch & A-Frame when used in transporting materials; Ross Carrier; Forklift when used to transport building materials; & Pavement Breaker

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union

rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an

interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Fringe benefit amounts are applicable for all hours worked except when otherwise noted.

These rates are listed pursuant to the Kentucky Determination No. CR-11-III- HWY dated August 04, 2011

No laborer, workman or mechanic shall be paid at a rate less than that of a Journeyman except those classified as bona fide apprentices.

Apprentices or trainees shall be permitted to work as such subject to Administrative Regulations adopted by the Commissioner of Workplace Standards. Copies of these regulations will be furnished upon request from any interested person.

Before using apprentices on the job the contractor shall present to the Contracting Officer written evidence of registration of such employees in a program of a State apprenticeship and training agency approved and recognized by the U. S. Bureau of Apprenticeship and Training. In the absence of such a State agency, the contractor shall submit evidence of approval and registration by the U. S. Bureau of Apprenticeship and Training.

The contractor shall submit to the Contracting Officer, written evidence of the established apprenticeship-journeyman ratios and wage rates in the project area, which will be the basis for establishing such ratios and rates for the project under the applicable contract provisions.

TO: EMPLOYERS/EMPLOYEES

PREVAILING WAGE SCHEDULE:

The wages indicated on this wage schedule are the least permitted to be paid for the occupations indicated. When an employee works in more than one classification, the employer must record the number of hours worked in each classification at the prescribed hourly base rate.

OVERTIME:

Overtime is to be paid after an employee works eight (8) hours a day or forty (40) hours a week, whichever gives the employee the greater wages. At least time and one-half the base rate is required for all overtime. A laborer, workman or mechanic and an employer may enter into a written agreement or a collective bargaining agreement to work more than eight (8) hours a calendar day but not more than ten (10) hours a calendar day for the straight time hourly rate. Wage violations or questions should be directed to the designated Engineer or the undersigned.

Ryan Griffith, Director
Division of Construction Procurement
Frankfort, Kentucky 40622

PART IV

INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

1) Commercial General Liability-Occurrence form – not less than $2,000,000 General aggregate, $2,000,000 Products & Completed Aggregate, $1,000,000 Personal & Advertising, $1,000,000 each occurrence.

2) Automobile Liability- $1,000,000 per accident

3) Employers Liability:

   a) $100,000 Each Accident Bodily Injury
   b) $500,000 Policy limit Bodily Injury by Disease
   c) $100,000 Each Employee Bodily Injury by Disease

4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
   a) "policy contains no deductible clauses."
   b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."

5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V

BID ITEMS

CONTRACT ID: 121333 PAGE: 1
COUNTY: JEFFERSON LETTING: 07/13/12
PROPOSAL: JL04 056 0265 013-014 CALL NO: 300

LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
	SECTION 0001	PAVING			
0010	00001	DGA BASE	120.000 TON		
0020	00100	ASPHALT SEAL AGGREGATE	5.000 TON		
0030	00103	ASPHALT SEAL COAT	0.600 TON		
	SECTION 0002	ROADWAY			
0040	02014	BARRICADE-TYPE III	3.000 EACH		
0050	02562	SIGNS	96.000 SQFT		
0060	02596	FABRIC-GEOTEXTILE TYPE I	20.000 SQYD		
0070	02650	MAINTAIN & CONTROL TRAFFIC	(1.00) LS		
0080	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EACH		
0090	02726	STAKING	(1.00) LS		
0100	02775	ARROW PANEL	1.000 EACH		
0110	08003	FOUNDATION PREPARATION	(1.00) LS		
0120	20257NC	SITE PREPARATION	(1.00) LS		
0130	21590EN	SOUND BARRIER WALL	33,198.500 SQFT		
	SECTION 0003	DRAINAGE			
0140	00521	STORM SEWER PIPE-15 IN	20.000 LF		
0150	01503	DROP BOX INLET TYPE 5A MOD	1.000 EACH		
0160	02483	CHANNEL LINING CLASS II	3.000 TON		
0170	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	20.000 SQYD	2.00	40.00
	SECTION 0004	DEMOBILIZATION			

KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
FRANKFORT, KY 40622

CONTRACT ID: 121333 PAGE: 2
COUNTY: JEFFERSON LETTING: 07/13/12
PROPOSAL: JL04 056 0265 013-014 CALL NO: 300

LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0180	02569	DEMOBILIZATION (AT LEAST 1.5%)	LUMP		
		TOTAL BID			