

| HIG-041-0040 ESTIMATED QUANTITIES | | | | | MADE BY BTJ | CHECKED BY | | |
|-----------------------------------|-----------|--------------------|-------|---|---------------|----------------|---------|-----|
| | | | | | DATE 7/1/2020 | DATE 7/2/20 | | |
| ITEM | ITEM EXT. | TOTAL 01/STR/BR | UNITS | DESCRIPTION | HIG-041-0040 | | | |
| | | | | | ABUTMENTS | SUPERSTRUCTURE | GENERAL | |
| 202 | 11003 | LUMP | | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN | | | | \$: |
| 202 | 22900 | 123 | SQ YD | APPROACH SLAB REMOVED | | | 123 | |
| 202 | 23500 | 432 | SQ YD | WEARING COURSE REMOVED | | | 432 | |
| 503 | 11100 | LUMP | | COFFERDAMS AND EXCAVATION BRACING | LUMP | | | |
| 503 | 21101 | 190 | CU YD | UNCLASSIFIED EXCAVATION, AS PER PLAN | 190 | | | \$: |
| 509 | 10000 | 62172 | LB | EPOXY COATED REINFORCING STEEL | 9906 | 21848 | 30418 | |
| 511 | 33500 | 2 | EACH | SEMI-INTEGRAL DIAPHRAGM GUIDE | 2 | | | |
| 511 | 34444 | 91 | CU YD | CLASS QC2 CONCRETE, BRIDGE DECK | | 91 | | |
| 511 | 43510 | 74 | CU YD | CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING | 74 | | | |
| 511 | 46210 | 47 | CU YD | CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING | 47 | | | |
| | 10100 | 85 | SQ YD | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | 62 | 23 | | |
| 512 | 33001 | 136 | SQ YD | TYPE 2 WATERPROOFING, AS PER PLAN | 136 | | | |
| 513 | 10261 | 54710 | LB | STRUCTURAL STEEL MEMBERS, LEVEL 3, AS PER PLAN | | 54710 | | |
| 513 | 20000 | 990 | EACH | WELDED STUD SHEAR CONNECTORS | | 990 | | |
| 516 | 13600 | 2 | SQ FT | 1" PREFORMED EXPANSION JOINT FILLER | 2 | | | |
| 516 | 13900 | 42 | SQ FT | 2" PREFORMED EXPANSION JOINT FILLER | 42 | | | |
| 516 | 14020 | 128 | FT | SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL | 128 | | | |
| 516 | 44100 | 12 | EACH | ELASTOMERIC BEARING WITH INTERNAL LAMINATES (11"x12"x2.02") AND LOAD PLATES (12"x13"x1.5") (NEOPRENE) | 12 | | | |
| 517 | 70000 | 110 | FT | RAILING (TWIN STEEL TUBE) | 110 | | | |
| 518 | 21200 | 42 | CU YD | POROUS BACKFILL WITH GEOTEXTILE FABRIC | 42 | | | |
| SPECIAL | 518E22300 | 110 | FT | SPECIAL - STEEL DRIP STRIP | | 110 | | |
| 518 | 40000 | 131 | FT | 6" PERFORATED CORRUGATED PLASTIC PIPE | 131 | | | |
| 518 | 40010 | 63 | FT | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS | 63 | | | |
| 524 | 94704 | 96 | FT | DRILLED SHAFTS 36" DIAMETER, INTO BEDROCK | 96 | | | |
| | 94802 | 63 | FT | DRILLED SHAFTS 42" DIAMETER, ABOVE BEDROCK | 63 | | | |
| 512 | 95100 | 2 | EACH | DRILLED SHAFTS MISC.: THERMAL INTEGRITY PROFILER, (T.I.P.) WIRE CABLE TESTING OF DRILLED SHAFTS | 2 | | | |
| 526 | 25000 | 71 | SQ YD | REINFORCED CONCRETE APPROACH SLAB (T=15") | | | 71 | |
| 526 | 90010 | 88 | FT | TYPE A INSTALLATION | | | 88 | |
| 613 | 41201 | 130 | CU YD | LOW STRENGTH MORTAR, AS PER PLAN | | | 130 | \$: |



Project: ODOT
 Bridge: HIG-041-0040

Date: 11/11/19
 By: BTJ
 Checked: AMT
 Sheet: _____

QUANTITY COMPUTATIONS

DESCRIPTION: PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM NO. 202E11003
 QUANTITY 1
 UNIT LUMP

Portions of Structure Removal (Breastwall):

| Portion | Area (SF) | Height (ft) | Avg. Ht. | # | Volume (cu. Ft.) | |
|------------------------|-----------|-------------|----------|---|------------------|--|
| Area for all Backwalls | 56.1 | 1.4 | Avg. Ht. | 2 | 157.1 | These backwalls are above the slab seat over the wingwalls |
| Piers | 83.8 | 11.03 | Avg. Ht. | 2 | 1848.6 | |
| Sub Total= | | | | | 2005.7 | CU. FT. = 74.29 CY |

| | | |
|--|----------------|----------------------------|
| Portions of Structure Removed (Superstructure): | | (CU. FT) |
| Deck | 3478.50 | |
| Approach Slabs | 1375.00 | |
| TOTAL | 4853.50 | CU. FT. = 179.76 CY |

TOTAL CY = 254.04 CY

Cost Factor (\$) = 200 per CY removed **Cost = 50808.95**

TOTAL = 50809 LUMP



Project: ODOT
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QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: APPROACH SLAB REMOVED

ITEM NO. 202E22900
QUANTITY 123
UNIT SY

| | | | | |
|--------------------|------|------|--------|--------|
| Rear Area = | 550 | SF | 61.11 | SY |
| Forward Area = | 550 | SF | 61.11 | SY |
| Total Area = | 1100 | SF | 122.22 | SY |
| Cost for Removal = | | \$30 | | per SY |

TOTAL = 123 SY



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QUANTITY COMPUTATIONS

DESCRIPTION: WEARING COURSE REMOVED

ITEM NO. 202E23500
QUANTITY 432
UNIT SY

Wearing Surface Area (Deck) = 2785.00 SF
Rear Appr. Slab = 552.79 SF
Forward Appr. Slab = 550.00 SF
Total = 3887.79 SF 431.98 SY

Cost for Removal = \$14.00 per SY

TOTAL = 432 SY



Project: ODOT
Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: COFFERDAMS AND EXCAVATION BRACING

ITEM NO. 503E11100
QUANTITY 1
UNIT LUMP

Total Cost = \$60,000.00

Say = **\$60,000**



Project: ODOT
 Bridge: HIG-041-0040

Date: 11/11/19
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QUANTITY COMPUTATIONS

DESCRIPTION: UNCLASSIFIED EXCAVATION, AS PER PLAN

ITEM NO. 503E21101
 QUANTITY 190
 UNIT CY

| | AREA OF End Trapazoid (SQ. FT.) | Length along skew Plus 1 ft Each End (FT) | VOL (CF) | VOL (CY) |
|-----------------------|---------------------------------------|---|----------|----------|
| Rear Abut. Footing | 34.6 | 66.8 | 2311.28 | 85.60 |
| Forward Abut. Footing | 31.8 | 67.3 | 2138.55 | 79.21 |

| Area under Existing Approach slab: Area (Sq. Ft.) | | Depth (Ft.) | VOL (CF) | VOL (CY) |
|---|-------|-------------|----------|----------|
| RA | 243.2 | 0.42 | 102.144 | 3.78 |
| FA | 243.2 | 0.42 | 102.144 | 3.78 |

| Area under Proposed Approach slab: Area (Sq. Ft.) | | Depth (Ft.) | VOL (CF) | VOL (CY) |
|---|------|-------------|----------|----------|
| RA (LT.) | 88.4 | 1.33 | 117.572 | 4.35 |
| RA (RT.) | 88.4 | 1.33 | 117.572 | 4.35 |
| FA (LT.) | 88.4 | 1.33 | 117.572 | 4.35 |
| FA (RT.) | 88.4 | 1.33 | 117.572 | 4.35 |

Abut Total= 190.00 C.Y.
TOTAL= 190 CY

Note: Not including any excavation for 2' wide porous backfill



Project: ODOT
 Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
 By: BTJ
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DESCRIPTION: EPOXY COATED REINFORCING STEEL

ITEM NO. 509E10000
 QUANTITY 62172
 UNIT LB

| | Assumed pounds per (CY) | Total | |
|----------------|--|---------------|-----------|
| Deck | 15839 | 15839 | LB |
| Abutments | 9906 | 9906 | LB |
| End Diaphragm | 6009 | 6009 | LB |
| Drilled Shafts | 8277 | 8277 | |
| Approach Slabs | 22141 | 22141 | |
| | | TOTAL= | |
| | | 62172 | LB |



Project: ODOT
Bridge: HIG-041-0040

Date: 6/26/20
By: BTJ
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QUANTITY COMPUTATIONS

DESCRIPTION: SEMI-INTEGRAL DIAPHRAGM GUIDE

ITEM NO. 511E33500
QUANTITY 2
UNIT EACH

| Location | Number Required |
|------------------|-----------------|
| Rear Abutment | 1 |
| Forward Abutment | 1 |
| Total Required | 2 |

TOTAL = 2.0 Each



Project: ODOT
 Bridge: HIG-041-0040

Date: 11/11/19
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QUANTITY COMPUTATIONS

DESCRIPTION: CLASS QC2 CONCRETE, SUPERSTRUCTURE

ITEM NO. 511E34444
 QUANTITY 91
 UNIT CY

Main Slab

| Length (ft) ovhg. | Transv. Xsec Area, incl. haunches and | Trapaz. Area above Appr. Seat and below slab (ft.^2) | Length of Trapaz. Area Parallel to C/L Brg. (ft.) | Total (CF) | Convert to CY | |
|-------------------|---------------------------------------|--|---|------------|---------------|----|
| 56.31 | 30.12 | 1.6 | 43.88 | 1836.5 | 68.0 | CY |

Integral End Diaphragm

| | Area Diaph. Face btwn. Bm seat and App. Slab Seat incl. beams (ft^2) | Thkness of diaph. Below Appr. Slab Seat (ft.) | Number of Beams | Partial Volume for Beam Below App. Slab seat | Beam Volume to Subtract from Diap. | Diaphragm (CF) | Diaphragm (CY) |
|------------------|--|---|-----------------|--|------------------------------------|----------------|----------------|
| Rear Abutment | 101.3 | 3.00 | 6 | 0.214 | 1.284 | 302.62 | 11.2 |
| Forward Abutment | 101.5 | 3.00 | 6 | 0.214 | 1.284 | 303.22 | 11.2 |
| Total Superst | | | | | | | 90.5 |

TOTAL = 91.0 CY



Project: ODOT
 Bridge: HIG-041-0040

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QUANTITY COMPUTATIONS

DESCRIPTION: CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING

ITEM NO. 511E43510
 QUANTITY 74
 UNIT CY

Beam Seat

| | Area (ft^2) | Ht (ft.) | Width (ft) | Len (ft) | # | Total (CF) | Total (CY) |
|------------------|-------------|----------|------------|----------|---|------------|------------|
| Rear Abutment | | 2.06 | 3.00 | 43.88 | 1 | 271.18 | 10.0 |
| Forward Abutment | | 2.10 | 3.00 | 43.88 | 1 | 276.44 | 10.2 |

Footing

| | Area (ft^2) | Ht (ft.) | Width (ft) | Len (ft) | # | Total (CF) | Total (CY) |
|------------------|-------------|----------|------------|----------|---|------------|------------|
| Rear Abutment | | 3.00 | 5.50 | 43.88 | 1 | 724.02 | 26.8 |
| Forward Abutment | | 3.00 | 5.50 | 43.88 | 1 | 724.02 | 26.8 |

Concrete Total= 1995.66 73.91

TOTAL= 74.0 CY



Project: ODOT
 Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: CLASS QC1 CONCRETE, WINGWALL INCLUDING FOOTING

ITEM NO. 511E46210
 QUANTITY 47
 UNIT CY

Wingwalls

| | Face Area of sloped portion (ft ²) | Width of sloped portion (ft.) | Top Area un-sloped portion (ft ²) | Height of un-sloped portion (ft.) | Volum of 2" sliver under beam seat (ft ³ .) | # | Total (CF) | Total (CY) |
|---------------|--|-------------------------------|---|-----------------------------------|--|---|------------|------------|
| Left Rear | 31.35 | 2.50 | 9.97 | 5.62 | 1.25 | 1 | 135.65 | 5.0 |
| Right Rear | 33.05 | 2.50 | 6.37 | 5.74 | 1.25 | 1 | 120.44 | 4.5 |
| Left Forward | 31.19 | 2.50 | 6.37 | 5.65 | 1.27 | 1 | 115.23 | 4.3 |
| Right Forward | 35.64 | 2.50 | 9.97 | 5.76 | 1.27 | 1 | 147.79 | 5.5 |

Footing

| | Top Area (ft ²) | Ht (ft.) | Width (ft) | Len (ft) | # | Total (CF) | Total (CY) |
|---------------|-----------------------------|----------|------------|----------|---|------------|------------|
| Left Rear | 60.13 | 3.00 | | | 1 | 180.39 | 6.7 |
| Right Rear | 54.98 | 3.00 | | | 1 | 164.94 | 6.1 |
| Left Forward | 52.97 | 3.00 | | | 1 | 158.91 | 5.9 |
| Right Forward | 64.5 | 3.00 | | | 1 | 193.50 | 7.2 |

TOTAL = 47.0 CY



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QUANTITY COMPUTATIONS

DESCRIPTION: SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ITEM NO. 512E10100
 QUANTITY 85
 UNIT SY

SUBSTRUCTURE:

| | Left WW Area (ft ²) | Right WW Area (ft ²) | AbutmentFace Area (ft ²) | Subtotal Area (ft ²) | Subtotal Area (SY) |
|---------------------------------------|---------------------------------------|-------------------------------------|---|--|-----------------------|
| Rear Abutment | | | | | |
| Rear Abutment Face incl. Wingalls | | | 199.80 | 199.80 | 22.2 |
| Top of Wingwall Flat | 9.97 | 6.37 | | 16.34 | 1.8 |
| Top of Wingwall Sloped | 17.80 | 20.40 | | 38.20 | 4.2 |
| End of Wingwall above ground | 1.98 | 1.93 | | 3.90 | 0.4 |
| Corner of Beam Seat | 2.28 | 2.31 | | 4.59 | 0.5 |
| Back of Wingwall above ground | 5.34 | 5.60 | | 10.93 | 1.2 |
| Forward Abutment | | | | | |
| Forward Abutment Face incl. Wingwalls | | | 205.04 | 205.04 | 22.8 |
| Top of Wingwall Flat | 6.37 | 9.97 | | 16.34 | 1.8 |
| Top of Wingwall Sloped | 18.90 | 20.35 | | 39.25 | 4.4 |
| End of Wingwall above ground | 4.00 | 4.00 | | 8.00 | 0.9 |
| Corner of Beam Seat | 2.28 | 2.33 | | 4.60 | 0.5 |
| Back of Wingwall above ground | 5.09 | 5.42 | | 10.50 | 1.2 |
| Abutment Total= | | | | 557.49 ft ³ | 61.9 |

SUPERSTRUCTURE:

| | Wrap | Number | Length | | |
|--------------------------|------|--------|--------|-------------------------|------|
| Beam Sides and Slab Edge | 2.00 | 2.00 | 51.60 | | |
| Superstructure Total= | | | | 206.40 ft. ² | 22.9 |

TOTAL= 763.89 85.0



Project: ODOT
Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: TYPE 2 WATERPROOFING, AS PER PLAN

ITEM NO. 512E33001
QUANTITY 136
UNIT SY

Area (Sq. Ft.)
Rear Abutment 608.10
Forward Abutment 613.93

Total = 1222.03 Sq. Ft.

OR 135.78 SY

TOTAL= 136.0 SY



Project: ODOT
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QUANTITY COMPUTATIONS

DESCRIPTION: WELDED STUD SHEAR CONNECTORS

ITEM NO. 513E20000
QUANTITY 990
UNIT EACH

| Number of Beams | Number per Beam | Total No. of Studs |
|--------------------|--------------------|-----------------------|
| 6 | 165 | 990 |

ALL STEEL IS GALVANIZED

TOTAL = 990 EA



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QUANTITY COMPUTATIONS

DESCRIPTION: 1" PREFORMED EXPANSION JOINT FILLER

ITEM NO. 516E13600
QUANTITY 2
UNIT SQ.FT.
SF

| | | LENGTH | | |
|---------|---|--------|------------|-----------|
| | # | (FT) | WIDTH (FT) | AREA (SF) |
| REAR | 2 | 0.5 | 1.54 | 0.8 |
| FORWARD | 2 | 0.5 | 1.54 | 0.8 |
| | | | TOTAL= | 1.5 |

TOTAL = 2 FT



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QUANTITY COMPUTATIONS

DESCRIPTION: 2" PREFORMED EXPANSION JOINT FILLER

ITEM NO. 516E13900
QUANTITY 42
UNIT SF

| | <i>Length (ft)</i> | <i>Height (ft)</i> | <i>Number</i> | Area | |
|----------------------|--------------------|--------------------|---------------|-------------|----|
| <i>Left Rear</i> | 2.89 | 3.56 | 1.0 | 10.3 | SF |
| <i>Right Rear</i> | 2.89 | 3.68 | 1.0 | 10.6 | SF |
| <i>Left Forward</i> | 2.89 | 3.55 | 1.0 | 10.3 | SF |
| <i>Right Forward</i> | 2.89 | 3.68 | 1.0 | 10.6 | SF |

ABUTMENT TOTAL= 41.8 SF

TOTAL = 42.0 SF



Project: ODOT
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QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

ITEM NO. 516E14020
 QUANTITY 128.00
 UNIT FT

| | Length (ft) | Number | Total (ft) |
|---|----------------|--------|------------|
| Ends of Integral End Diaphragm (avg.) | 4.2 | 4 | 16.8 * |
| Horizontal Joint | 46.88 | 2 | 93.76 |
| Add'l vertical sheets to cover behind diaphragm guide | 4.2 | 4 | 16.8 * |
| | | Total= | 127.36 |

* = Vertical sheet height, is average distance from bottom of Appr. Slab to beam seat plus 1.5' overlap

TOTAL = 128 FT



Project: ODOT
Bridge: CR338 OVER MILL CR

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: ELASTOMERIC BEARING WITH INTERNAL LAMINATES
(11"X12"X2.02") AND LOAD PLATES (12"X13"X1.5") (NEOPRENE)

ITEM NO. 516E44100
QUANTITY 12
UNIT EA

| Number of Beams | Bearings per beam | Total |
|--------------------|----------------------|-------|
| 6 | 2 | 12 |

TOTAL = 12 EA



Project: ODOT
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QUANTITY COMPUTATIONS

DESCRIPTION: RAILING (TWIN STEEL TUBE)

ITEM NO. 517E70000
QUANTITY 110
UNIT FT

| | Begin | End | Length | |
|------------------|---------|---------|--------|----|
| Left Stations = | 2151.39 | 2205.97 | 54.58 | FT |
| Right Stations = | 2174.02 | 2228.6 | 54.58 | FT |
| | | Total = | 109.16 | FT |

TOTAL = 110 FT



Project: ODOT
 Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: POROUS BACKFILL WITH FILTER FABRIC

ITEM NO. 518E21200
 QUANTITY 42
 UNIT CY

| | <i>Area behind wall (ft*2)</i> | <i>Thicknes s of fill</i> | # | Sub totals (ft*3) | CY |
|-----------------------|------------------------------------|-------------------------------|------------------|------------------------------|----------------|
| Rear abut and ww's | 276.8 | 2 | 1 | 553.60 | 20.50 |
| Forward abut and ww's | 280.4 | 2 | 1 | 560.80 | 20.77 |
| | | | ABUTMENTS TOTAL= | 1114.40 | 41.27 |
| | | | | TOTAL = | 42.0 CY |



Project: ODOT
Bridge: HIG-041-0040

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QUANTITY COMPUTATIONS

DESCRIPTION: SPECIAL - STEEL DRIP STRIP

ITEM NO. 518E22300
QUANTITY 110
UNIT FT

| | Begin | End | Length | |
|------------------|---------|---------|--------|----|
| Left Stations = | 2151.39 | 2205.97 | 54.58 | FT |
| Right Stations = | 2174.02 | 2228.6 | 54.58 | FT |
| | | Total = | 109.16 | FT |

TOTAL = 110 FT



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QUANTITY COMPUTATIONS

DESCRIPTION: 6" DIA. PERFORATED CORRUGATED PLASTIC PIPE

ITEM NO. 518E40000
QUANTITY 131
UNIT FT

| | | | | Total Length (FT) |
|--|-----------------|-----------------|----------|----------------------------------|
| | Location | Len (ft) | # | |
| | Rear Abut. | 65 | 1 | 65.0 |
| | Forward Abut. | 66 | 1 | 66.0 |
| | Total | | | 131.0 |
| | TOTAL = | | | 131.0 FT |



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QUANTITY COMPUTATIONS

DESCRIPTION: 6" DIA. NONPERFORATED CORRUGATED PLASTIC PIPE

ITEM NO. 518E40010
QUANTITY 63
UNIT FT

| | Len (ft) | # |
|---------------|----------|---|
| Left Rear | 18 | 1 |
| Right Rear | 14 | 1 |
| Left Forward | 14 | 1 |
| Right Forward | 17 | 1 |

Total Length (FT)
18
14
14
17
Total= 63.0
TOTAL = 63.0 FT



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QUANTITY COMPUTATIONS

DESCRIPTION: DRILLED SHAFTS 36" DIAMETER, INTO BEDROCK

ITEM NO. 524E94704
QUANTITY 96
UNIT FT

| | <i>SHAFT</i> | | |
|---------|-----------------|---------------|--------------|
| | <i># SHAFTS</i> | <i>LENGTH</i> | <i>TOTAL</i> |
| REAR | 6 | 8.0 | 48.0 |
| FORWARD | 6 | 8.0 | 48.0 |
| | TOTAL= | | 96.0 |

TOTAL = 96 FT



Project: ODOT
Bridge: HIG-041-0040

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QUANTITY COMPUTATIONS

DESCRIPTION: DRILLED SHAFTS 42" DIAMETER, ABOVE BEDROCK

ITEM NO. 524E94802
QUANTITY 63
UNIT FT

| | <i>ORDER</i> | | |
|---------|-----------------|---------------|--------------|
| | <i># SHAFTS</i> | <i>LENGTH</i> | <i>TOTAL</i> |
| REAR | 6 | 5.1 | 30.8 |
| FORWARD | 6 | 5.3 | 31.7 |

TOTAL= 62.5

TOTAL = 63 FT



Project: ODOT
Bridge: HIG-041-0040

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QUANTITY COMPUTATIONS

DESCRIPTION: DRILLED SHAFTS MISC.: THERMAL INTEGRITY PROFILER (T.I.P.), WIRE CABLE TESTING OF
DRILLED SHAFTS, 42" DIAMETER SHAFTS

ITEM NO. 524E95100
QUANTITY 2
UNIT EACH

| Number of Req'd Test Shafts per Substructure Units | Number of Substructure Units | Total No. of Test Shafts |
|---|---------------------------------|-----------------------------|
| 1 | 2 | 2 |

TOTAL = 2 EA



Project: ODOT
Bridge: HIG-041-0040

QUANTITY COMPUTATIONS

Date: 11/11/19
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DESCRIPTION: REINFORCED CONCRETE APPROACH SLABS (T=15")

ITEM NO. 526E25000
QUANTITY 71
UNIT sy

| Length (ft) | Width (ft) | # | Total (SF) | Total (SY) | |
|-------------|------------|---|------------|------------|----|
| 25 | 38 | 2 | 1900.0 | 70.4 | SY |

TOTAL = 71.0 SY



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QUANTITY COMPUTATIONS

DESCRIPTION: TYPE A INSTALLATION

ITEM NO. 526E90010
QUANTITY 88
UNIT FT

| Length (ft) | # | Total (ft) |
|-------------|---|------------|
| 43.88 | 2 | 87.8 |

TOTAL = 87.8 FT



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QUANTITY COMPUTATIONS

DESCRIPTION: ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER

ITEM NO. 601E32200
QUANTITY 270
UNIT CY

| | Length | Avg. Width | Height | Total (CF) | Total (CY) |
|------------------|--------|------------|--------|------------|------------|
| Rear Abutment | 75.26 | 16 | 2.5 | 3476 | 128.7 |
| Forward Abutment | 87.6 | 15 | 2.5 | 3793 | 140.5 |
| TOTAL= | | | | 7269 | 269.2 |

TOTAL = 7269.3 270.0



Project: ODOT
Bridge: HIG-041-0040

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QUANTITY COMPUTATIONS

DESCRIPTION: LOW STRENGTH MORTAR BACKFILL, AS PER PLAN

ITEM NO. 613E41201
QUANTITY 130
UNIT CY

| Area Xsec Btwn Existing and Proposed Abutments (Sq. Ft.) | Length of Backfill Along Skew (Ft.) | | Total (Cu. Ft.) |
|---|--|------|------------------------|
| Rear | 26.46 | 43.9 | 1161.59 |
| Forward | 26.46 | 43.9 | 1161.59 |

| Plan Area Behind Face of Existing Abutment Below Proposed Approach Slab (Sq. Ft.) | | | |
|--|-------|------|--------|
| Rear | 13.54 | 43.9 | 594.27 |
| Forward | 13.54 | 43.9 | 594.27 |

GRAND TOTAL 3511.73 Cu. Ft.

GRAND TOTAL C.Y. 130 C.Y. **TOTAL = 130 C.Y.**