

SUBJECT DESC.: MED-18-1404Project ID Number: 92953

NCI JOB NUMBER: _____

DESIGNED BY: DLC DATE: 6/14/18CHECKED BY: APM DATE: 6/14/18503-11100 - COFFERDAMS AND EXCAVATION BRACING

(lump)

B/ Footing Elevation RA= 910.1 ft

Depth Below Footing = 4 ft

Total Rear Substructure Width = 8.25 ft

Front of RA Footing to Embankment = 15 ft

Total Area = 34964.325 sft

Cost = \$0 /sft

Total = 503-21300 - UNCLASSIFIED EXCAVATION

(lump)

Embankment behind RA Footing = 922.03 RA Embankment Elevation = 914.844

B/ Footing Elevation RA= 910.10

Footing Toe = 2 ft

RA Footing Heel = 2.5 ft

Total Rear Substructure Length = 26.68 ft

Flat distance behind footing = 1 ft

Rear Abutment Volume = 3392.47 cft = 125.6 cyd

Total = 125.647 cyd = 126 cyd = 505-11100 - PILE DRIVING EQUIPMENT MOBILIZATION

(lump)

Estimate at \$10,000

507-00500 - 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN

(ft)

Estimate at 65 feet RA and 50 feet FA based on design information provided by S&ME.

Number of Piles at RA = 12 each

Number of Piles at FA = 12 each

Total Length =

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507-00550 - 12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED (ft)

Estimate at 65 feet RA and 50 feet FA based on design information provided by S&ME.

Number of Piles at RA = 12 each

Number of Piles at FA = 12 each

Total Length =

509-10000 - EPOXY COATED REINFORCING STEEL (lb)

Abutments = 9020 lb

Total =

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511-43510 - CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING (cyd)

RA footing length = 26.68 ft Footing Toe Thickness = 3.25 ft

FA footing length = 35.17 ft Toe Length = 2 ft

Footing thickness = 3 ft

RA footing width = 8.25 ft

FA footing width = 8.25 ft

Total = 1561.54 cft = 57.8348 cyd = 58 cyd

Rear Abutment:

Elevation of Top of Wingwall (Left) = 923.74

Elevation of Top of Wingwall (Center Left) = 926.55

Elevation of Top of Wingwall (Center Right) = 926.27

Elevation of Top of Wingwall (Right) = 924.15

Wingwall Thickness = 1.75 ft

Left Wingwall Length = 10 ft

Right Wingwall Length = 8.4373 ft

Top of Abutment El. = 923.24

Bottom of Abutment El. = 913.1

Abutment Length = 14.167 ft

Abutment Thickness = 3.75 ft

Backwall Volume = 78.5914 cft

Total = 874.533 cft = 32.3901 cyd = 33 cyd

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511-43510 - CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING (con't) (cyd)

Forward Abutment:

Elevation of Top of Wingwall (Left) = 925.21

Elevation of Top of Wingwall (Center Left) = 925.21

Elevation of Top of Wingwall (Center Right) = 925.49

Elevation of Top of Wingwall (Right) = 922.71

Wingwall Thickness = 1.75 ft

Left Wingwall Length = 10 ft

Right Wingwall Length = 11 ft

Top of Abutment El. = 922.21

Bottom of Abutment El. = 914.29

Abutment Length = 14.167 ft

Abutment Thickness = 3.75 ft

Backwall Volume = 77.8477 cft

Total = 769.48 cft = 28.4993 cyd = 29 cyd

Total = 120 cyd

512-10100 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (syd)

Average height of exposed rear substructure = 7.28 ft

Average height of exposed forward structure = 4.04 ft

Total rear wingwall length = 18.437 ft

Total forward wingwall length = 21 ft

RA length = 14.167 ft

FA length = 14.167 ft

Wingwall/Backwall Thickness = 1.75 ft

Abutment Side Thickness = 2 ft

Height along back of substructure = 0.5 ft

Total = 563.032 sft = 62.5592 syd = 63 syd

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512-33000 - TYPE 2 WATERPROOFING

(syd)

Width of Waterproofing = 3 ft

RA Height of Phase Joint = 11.05 ft

Total = 33.15 sft = 3.68333 syd = syd

516-13900 - 2" PREFORMED EXPANSION JOINT FILLER

(sft)

Length of filler = 11.05 ft

Depth of filler = 1.75 ft

Total = 19.3375 sft = sft

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518-21200 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

(cyd)

Thickness of Footing = 3 ft

Width of Backfill = 2 ft

Approach Slab Thickness = 0.33 ft

Aggregate Base Thickness = 0.50 ft

Depth from T/ Wingwall to T/ Backfill = 0.50 ft

PG Elevation at RA = 918.00

Length of RA = 32.60 ft

B/ Footing Elevation RA= 910.10

NW Wingwall Length = 8.437 ft

SW Wingwall Length = 10 ft

NW Wingwall Average Height = 12.11 ft

SW Wingwall Average Height = 12.05 ft

RA Backfill Volume = 691.996 cft

PG Elevation at FA = 921.00

Length of FA = 35.17

B/ Footing Elevation FA= 914.29

NE Wingwall Length = 10 ft

SE Wingwall Length = 11 ft

NE Wingwall Average Height = 7.92 ft

SE Wingwall Average Height = 6.81 ft

FA Backfill Volume = 489.55 cft

Total = 1181.55 cft = 43.76 cyd = 44 cyd

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518-40000 - 6" PERFORATED CORRUGATED PLASTIC PIPE (ft)

Length of RA = 32.6043 ft

Length of FA = 35.167 ft

Total = 67.7713 ft = ft

518-40010 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS (ft)

Length of Pipe in SE Corner = 20 ft

Length of Pipe in SW Corner = 38 ft

Additional Pipe Behind Wingwall = 1 ft (Typical Each Wingwall)

Total = 60 ft = ft

523-20000 - DYNAMIC LOAD TESTING (each)

Total =

523-20500 - RESTRIKE (each)

Total =

601-32204 - ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC (cyd)

Rear Abutment:

Length of RCP = 41.70 ft

Width of RCP = 24.00 ft

Thickness of RCP = 2.00 ft

Forward Abutment:

Length of RCP = 50.75 ft

Width of RCP = 18.80 ft

Thickness of RCP = 2.00 ft

Total = 3909.69 cft = 144.8 cyd = cyd