

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN

UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH 503 EXCEPT THAT THE BACKFILL MATERIAL BEHIND ABUTMENTS SHALL BE 203 GRANULAR MATERIAL PLACED IN 6 INCH LIFTS AND COMPACTED IN ACCORDANCE WITH 304.05.

FOUNDATION BEARING PRESSURE

THE PIER FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM BEARING PRESSURE OF 2.8 TONS PER SQUARE FOOT. THE ALLOWABLE BEARING PRESSURE IS 5.0 TONS PER SQUARE FOOT.

FOOTINGS

PIER FOOTINGS SHALL BE PLACED IN BEDROCK AT THE ELEVATION SHOWN.

REINFORCING STEEL

REINFORCING STEEL PLACING DRAWINGS, INCLUDING BAR SCHEDULES, SHALL BE DEVELOPED BY THE CONTRACTOR OR HIS SUPPLIER. THESE DRAWINGS SHALL REFLECT BAR SIZE, CONFIGURATION, SPACING AND LAPPING AS SHOWN ON THE STRUCTURE PLANS AND ODOT STANDARD DRAWING ICD-1-82 SHEETS 4 AND 5 OF 5. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, AND PROVIDING THEM AND THE REINFORCING STEEL ITSELF SHALL BE INCIDENTAL IN THE PRICE BID FOR STRUCTURAL CONCRETE.

ITEM 503 - BACKFILL, AS PER PLAN

DESCRIPTION:

BACKFILL AROUND THE PIER WALLS SHALL MEET THE REQUIREMENTS OF 503.10 WITH THE FOLLOWING CHANGES:

- BACKFILL MATERIAL SHALL BE CLASS F CONCRETE PROPORTIONED ACCORDING TO ODOT CMS 499.03.
- BACKFILL SHALL BE CARRIED TO THE LEVEL OF THE EXISTING RIVER BOTTOM AT THE EXCAVATION LIMITS AROUND THE PIER FOOTING.

CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 511.10, 511.11 AND 511.12.

METHOD OF MEASUREMENT:

THE VOLUME SHALL BE THE NUMBER OF CUBIC YARDS DETERMINED BY CALCULATIONS FROM PLAN DIMENSIONS, IN PLACE, COMPLETED AND ACCEPTED.

BASIS OF PAYMENT:

PAYMENT WILL BE MADE AT CUBIC YARD CONTRACT PRICE BID FOR ITEM 503 - BACKFILL, AS PER PLAN.

ITEM 601 - ROCK CHANNEL PROTECTION, GROUTED IN PLACE, AS PER PLAN (TYPE A WITH FILTER)

DESCRIPTION:

THIS ITEM SHALL CONSIST OF PROVIDING ROCK CHANNEL PROTECTION TYPE A WITH FILTER AS PER ODOT ITEM 601 AS SHOWN ON THE SITE PLAN AND DETAILS AND RIVER SECTIONS WITH THE FOLLOWING ADDITIONAL STIPULATIONS:

- A. ANY EMBANKMENT REQUIRED TO SUPPORT THE PROPOSED GROUTED ROCK AT THE ELEVATIONS SHOWN ON THE SITE PLAN SHALL BE CONSTRUCTED PER ODOT ITEM 203. EMBANKMENT CONSTRUCTED FOR THIS PURPOSE SHALL BE INCIDENTAL IN THE PRICE BID FOR ITEM 601.
- B. THE EXISTING SLOPE/PLACED EMBANKMENT SHALL BE EXCAVATED IN A STEPPED PATTERN, AND THE GROUTED ROCK "TOED IN" PER THE DETAIL SHOWN ON THE SITE PLAN. THIS EXCAVATION, INCLUDING REMOVING ANY SHALE AND DEBRIS THAT IS ENCOUNTERED, SHALL BE INCIDENTAL IN THE PRICE BID FOR ITEM 601.

THE FOLLOWING SPECIAL PROVISIONS SHALL ALSO BE INCLUDED IN THIS ITEM OF WORK:

- C. GROUTING ROCK CHANNEL PROTECTION - ALL ROCK CHANNEL PROTECTION SHALL BE GROUTED, AS PER ODOT CMS 601.03.
- D. FILTER FABRIC - THE FILTER FABRIC SHALL BE AS PER CMS 712.09, TYPE B AND SHALL BE INSTALLED AS PER THE DETAIL ON THE SITE PLAN. THE CONTRACTOR IS ADVISED TO USE EXTREME CAUTION WHEN PLACING ROCK CHANNEL PROTECTION ON ALL FILTER FABRIC. ANY FILTER FABRIC WHICH IS DAMAGED, TORN, OR PUNCTURED SHALL BE REPLACED IN FULL LENGTH BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

METHOD OF MEASUREMENT: ROCK CHANNEL PROTECTION, GROUTED IN PLACE, (TYPE A WITH FILTER) SHALL BE MEASURED FOR PAYMENT BY THE ENGINEER IN PLACE AND ACCEPTED. THE CUBIC YARD VOLUME FOR PAYMENT SHALL BE TAKEN FROM CONVERSION OF TRUCK WEIGHTS DELIVERED AND PLACED. CONVERSION OF WEIGHTS TO VOLUME SHALL BE CALCULATED USING 95 POUNDS/CU.FT. (1.3 TONS/CU.YD.)

REGARDING THE REPAIR OF EXISTING GROUTED ROCK DISLOCATED BY EXCAVATION WORK AT THE PROPOSED S.R. 615 BRIDGE ABUTMENTS, PAYMENT SHALL BE BASED ON THE MEASURED VOLUME OF GROUTED ROCK IN PLACE AND ACCEPTED WITHIN THESE LIMITS:

- 1) FOUR FEET (MAXIMUM) OUTSIDE THE OUTER EDGES OF THE BREASTWALL/WINGWALL;
- 2) FOUR FEET (MAXIMUM) TRENCH WIDTH FOR THE 6" PLASTIC DRAINAGE PIPE.

ANY EXISTING GROUTED ROCK DISLOCATED BY THE CONTRACTOR'S ACTIVITIES BEYOND THESE LIMITS SHALL BE REPAIRED (I.E., REPLACED AND RE-GROUTED) AT HIS EXPENSE AND NO ADDITIONAL COMPENSATION SHALL BE MADE.

BASIS OF PAYMENT: THE ACCEPTED VOLUME WILL BE PAID FOR AT THE CONTRACT BID PRICE FOR ITEM 601-ROCK CHANNEL PROTECTION, GROUTED IN PLACE, AS PER PLAN (TYPE A WITH FILTER). THIS PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EXCAVATION, EMBANKMENT, DISPOSAL OF SURPLUS MATERIALS AND DEBRIS, AND INCIDENTALS NECESSARY FOR COMPLETION OF THIS ITEM.

ITEM 614 - MAINTAINING TRAFFIC

SEE SHEETS T1 AND T13 THRU T16 FOR INFORMATION. SEE GENERAL SUMMARY FOR PAYMENT.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES

SEALER SHALL BE APPLIED TO THE BRIDGE DECK SURFACES SHOWN ON SHEET 14/19.

SEE PROPOSAL NOTE FOR SEALER MATERIAL, SURFACE PREPARATION REQUIREMENTS, AND APPLICATION RATES AND PROCEDURES.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES, EPOXY-URETHANE

AN EPOXY-URETHANE SEALER SHALL BE APPLIED TO THE SUBSTRUCTURE SURFACES SHOWN ON SHEET 9/19 AND TO THE SUPERSTRUCTURE SURFACES SHOWN ON SHEET 13/19.

THE COLOR OF THE SEALER (SECOND COAT ONLY) SHALL BE TINTED TO FEDERAL STANDARD NO.37722 (BUFF). SEE PROPOSAL NOTE FOR SEALER MATERIAL, SURFACE PREPARATION REQUIREMENTS, AND APPLICATION RATES AND PROCEDURES.

CORPS OF ENGINEERS PERMIT

A CORPS OF ENGINEERS NATIONWIDE PERMIT HAS BEEN ISSUED ON FEBRUARY 10, 1999. THE CONTRACTOR SHALL RESTRICT HIS ACTIVITIES TO THOSE AUTHORIZED BY THE NATIONWIDE PERMIT. A COPY OF THE PERMIT IS INCLUDED IN THE BID DOCUMENTS.

SUBSURFACE EXPLORATION

A SUBSURFACE EXPLORATION REPORT, INCLUDING BORING LOGS, HAS BEEN PREPARED BY EDP CONSULTANTS, INC. IT IS AVAILABLE FOR EXAMINATION AT: CT CONSULTANTS, INC. 35000 KAISER COURT, WILLOUGHBY, OHIO 44094.

THE CONTRACTOR MAY PERFORM HIS OWN SUBSURFACE INVESTIGATION AT THE PROPOSED BRIDGE SITE.

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