EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK

STA-30-1878 (TRUMP AVE OVER US 30)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- REPAIR EMBANKMENT EROSION AT REAR LEFT AND FORWARD RIGHT WINGWALLS
- REPLACE APPROACH GUARDRAIL AT FORWARD RIGHT AND REAR RIGHT OF STRUCTURE.
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1636 (OVER WARNER AVE)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE.
- SEAL ABUTMENTS, WINGWALLS, PIER COLUMNS AND PIER CAPS. WITH EPOXY-URETHANE
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE. - PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1642 (OVER PRIVATE DRIVE)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

PROPOSED WORK (CONT...)

STA-30-1648 (OVER WHEELING & LAKE ERIE RR)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL WITH EPOXY-URETHANE.

CLEAN EXISTING SCUPPERS

- REPAIR EROSION AT RIGHT REAR AT EXPOSED TOP OF FOOTER. - PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW. CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1751R (OVER MARIETTA AVE)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- REPLACE DAMAGED GUARDRAIL AT FORWARD RIGHT END OF
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1751L (OVER MARIETTA AVE)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- REPLACE DAMAGED GUARDRAIL AT FORWARD RIGHT END OF
- REPLACE BRIDGE TERMINAL ASSEMBLY AT FORWARD RIGHT END OF STRUCTURE
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1792R (OVER WHEELING & LAKE ERIE RR)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- REPLACE DAMAGED GUARDRAIL AT RIGHT REAR APPROACH.
- REMOVE GRAFFITI FROM MSE AND ABUTMENT WALLS.
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS.

STA-30-1793L (OVER WHEELING & LAKE ERIE RR)

- PATCH ALL UNSOUND AREAS OF EXISTING CONCRETE WEARING SURFACE, INCLUDING APPROACH SLABS.
- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY-FED RESIN CONCRETE TREATMENT.
- REPLACE DAMAGED GUARDRAIL AT LEFT REAR APPROACH.
- REMOVE GRAFFITI FROM MSE AND ABUTMENT WALLS.
- PROVIDE CLEARING AND GRUBBING 15' AROUND THE STRUCTURE.

OBJECT MARKERS AND STRUCTURE IDENTIFICATION SIGNS

OBJECT MARKERS WILL BE PLACED ON EACH APPROACH OFF THE LEFT AND RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. ONE OM-3L AND ONE OM-3R WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND SHALL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41 20 MOST CURRENT REVISION EACH POST WILL BE 10.5 FT IN LENGTH.

STRUCTURE IDENTIFICATION SIGNS (I-H25b) WILL BE INSTALLED ON THE SAME POST AND DIRECTLY BELOW THE OBJECT MARKER OFF THE RIGHT SHOULDER ON EACH APPROACH. A QUANTITY OF ONE SIGN WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES.

STA-30-1878 (2 APPROACHES)

STA-30-1636 (2 APPROACHES) STA-30-1642 (2 APPROACHES)

STA-30-1648 (2 APPROACHES)

STA-30-1751R

STA-30-1751L STA-30-1792R

STA-30-1793L

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT

ITEM 630 - SIGN, FLAT SHEET, 6 SQ FT

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 21 FT ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 3 EACH

ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 2 EACH

CORRECTING BRIDGE IDENTIFICATION SIGN NUMBERS:

THE EXISTING BRIDGE NUMBER SIGNS HAVE INCORRECT BRIDGE NUMBERS ON THEM. THE FOLLOWING BRIDGE NUMBERS ARE THE CORRECT ONES AND WILL BE USED ON THE NEW BRIDGE IDENTIFICATIONS SIGNS.

STRUCTURE STA-30-1878 (SFN:7601077) THE EXISTING SIGN SHOWS 1842. THE CORRECT BRIDGE IDENTIFICATION NUMBER

STRUCTURE STA-30-1636 (SFN:7601018) THE EXISTING SIGN SHOWS 1634. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1636.

STRUCTURE STA-30-1642 (SFN:7601026) THE EXISTING SIGN SHOWS 1640. THE CORRECT BRIDGE IDENTIFICATION NUMBER

STRUCTURE STA-30-1648 (SFN:7601042) THE EXISTING SIGN SHOWS 1646. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1648

STRUCTURE STA-30-1751R (SFN:7603746) THE EXISTING SIGN SHOWS 1751. THE CORRECT BRIDGE IDENTIFICATION NUMBER

STRUCTURE STA-30-1751L (SFN:7603738) THE EXISTING SIGN SHOWS 1751. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1751L

STRUCTURE STA-30-1792R (SFN:7603681) THE EXISTING SIGN SHOWS 17.92. THE CORRECT BRIDGE IDENTIFICATION NUMBER

STRUCTURE STA-30-1793L (SFN:7603673) THE EXISTING SIGN SHOWS 1792. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 17931

SPECIAL - STRUCTURES: CONCRETE SPALL REMOVAL

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM OF DECK OF STRUCTURE(S) STA-30-1636 & STA-30-1648 WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-(IRFTHANE)

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

STA-30-1636.

SPEC, STRUCTURES: CONCRETE SPALL REMOVAL, 20 SY 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 20 SY

STA-30-1648:

SPEC, STRUCTURES: CONCRETE SPALL REMOVAL, 45 SY 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 45 SY

STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF RELEASE.

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPT-ABLE METHODS INCLUDE: HIGH-PRESSURE WATER BLAST-ING WITH, OR WITHOUT, ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT OR VACUUM ABRASIVE BLASTING.

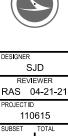
THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE **ESTIMATED QUANTITIES SHEET:**

STA-30-1636

ITEM 519. PATCING CONCRETE STRUCTURES. AS PER PLAN 150 SF

STA-30-1648

ITEM 519, PATCING CONCRETE STRUCTURES, AS PER PLAN 400 SF



P.30 34

STA-30-1648

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STRUCTURE

ITEM 518 - SCUPPER MISC.: CLEANOUT

THIS WORK WILL CONSIST OF REMOVING ALL DEBRIS FROM ON TOP AND INSIDE OF THE SCUPPERS. SCUPPER CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 518, SCUPPER MISC.: CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

CLEAN SCUPPERS FOR THE FOLLOWING STRUCTURE:

STA-30-1648

GUARDRAIL

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE ESTIMATED QUANTITIES SHEET:

STA-30-1878

ITEM 202, GUARDRAIL REMOVED, 50 FT
ITEM 202, ANCHOR ASSEMBLY REMOVED, TYPE E, 1 EACH
ITEM 606, ANCHOR ASSEMBLY, TYPE E, 1 EACH
ITEM 606, GUARDRAIL, TYPE 5, 50 FT

STA-30-1751R

ITEM 202, GUARDRAIL REMOVED, 37.5 FT ITEM 606, GUARDRAIL, TYPE 5, 37.5 FT

STA-30-1751L

ITEM 202, GUARDRAIL REMOVED, 31.25 FT
ITEM 202, BRIDGE TERMINAL ASSEMBLY REMOVED, 1 EACH
ITEM 606, BRIDGE TERMINAL ASSEMBLY, TYPE 1, 1 EACH
ITEM 606, GUARDRAIL, TYPE 5, 31.25 FT

STA-30-1792R

ITEM 202, GUARDRAIL REMOVED, 25.0 FT ITEM 606, GUARDRAIL, TYPE 5, 25.0 FT

STA-30-1793L

ITEM 202, GUARDRAIL REMOVED, 25.0 FT ITEM 606, GUARDRAIL, TYPE 5, 25.0 FT

EROSION REPAIR

THIS WORK WILL CONSIST OF REPAIRING THE EROSION OR SLOPE PROTECTION AT THE LOCATIONS DETAILED IN THE PROPOSED WORK NOTES FOR STRUCTURES STA-30-1878 AND STA-30-1648. REPAIR WORK WILL BE PAID FOR BY THE FOLLOWING ITEMS:

STA-30-1878

ITEM 203, BORROW, 2 CY
ITEM 601, DUMPED ROCK FILL, TYPE B, 5 CY
ITEM 613, LOW STRENGTH MORTAR BACKFILL, 3 CY

STA-30-1648

ITEM 203, BORROW, 5 CY

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN, (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED
ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE
WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED.
APPLY THE GRAFFITI COATING IN ACCORDANCE WITH THE
MANUFACTURER'S PRINTED INSTRUCTIONS.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE ESTIMATED QUANTITIES SHEET:

STA-30-1792R

ITEM 512, SEALING OF CONCRETE SURFACES, AS PER PLAN, 200 SY
ITEM 512, REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, 200 SY

STA-30-1793L

ITEM 512, SEALING OF CONCRETE SURFACES, AS PER PLAN, 200 SY ITEM 512, REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, 200 SY

Removed Jacking and Bearing Work -For STA-30-1648

, STA-30-1648, -30-1793L)-1636, STA-30-1642, STA-30-1792R, STA-STRUCTURE GENERAL NOTES 30-1878, STA-30-1636, STA-30-1751L, STA-30 STA-30-1878, BRIDGE NO.: STA-3 STA-30-1751R,

DESIGN AGENC



DESIGNER
SJD

REVIEWER
RAS 04-21-21
PROJECT ID
110615
SUBSET TOTAL
2 5
SHEET TOTAL
P.31 34

ESTIMATED QUANTITIES

DESCRIPTION

CLEARING AND GRUBBING, AS PER PLAN

GUARDRAIL REMOVED

UNIT

LS

FT

CALC:

CHECKED:

SJD

RAS

DATE

DATE:

1/27/2021

4/21/2021

SEE

SHEET



SJD RAS 04-21-21

110615

P.32 TOTAL 34

STA-30/43-16.46/10.74

BRIDGE NO. / STRUCTURE FILE NO.

STA-30-1648 7601042 06/NHS/BR

LUMP

STA-30-1642 7601026 06/NHS/BR

LUMP

STA-30-1636 7601018 06/NHS/BR

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STA-30-1751R 7603746 06/NHS/BR

LUMP

37.5

STA-30-1792R 7603681 06/NHS/BR

LUMP

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25

ITEM

201

202

EXTENSION

11001

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STA-30-1751L 7603738 06/NHS/BR

LUMP

31.25