Application Summary

We are pleased to present for your consideration the application for State of Good Repair for Federal Str. No. 1032. The following items are included in this application:

- Project Narrative
- Preliminary Plan and Elevation
- Preliminary Transverse Section
 - Approximate Project Limits
 - Cost Estimate Summary

- PCES

- Existing Bridge Plans (only plan view and deck section shown due to CII-SII)
 - Latest Bridge Safety Inspection Report (not included due to CII-SII)

PAGE 1 OF 3 **REVIEWER CODES:** A. REQUIRED TO BE ADDRESSED. SIGNIFICANT ISSUE. **VIRGINIA DEPARTMENT OF TRANSPORTATION** B. REQUIRED TO BE ADDRESSED. POTENTIAL SIGNIFICANT ISSUE. **PROJECT REVIEW** C. SHOULD OR RECOMMENDED TO BE ADDRESSED. D. GOOD PRACTICE. COULD BE ADDRESSED **COMMENT AND RESOLUTION SHEET** E. BEST PRACTICE. COULD BE ADDRESSED DATE: VARIES SCOPE OF WORK: BRIDGE REPLACEMENT UPC NUMBER: N/A FEDERAL STRUCTURE ID: 1032 PER BELOW **REVIEW PHASE: PRE-SCOPING/FUNDING DESCRIPTION: RTE. 159 OVER DUNLAP CREEK** DISCIPLINE: VARIOUS - SEE BELOW **REVIEW TYPE: QA REVIEW** CODE⁽⁴⁾ DOCUMENT⁽¹⁾⁽⁴⁾ REVIEWER / DATE / COMMENT⁽⁴⁾⁽⁵⁾ DATE / RESPONSE⁽²⁾ No. 4 Prescoping Report **Consultant Reviewer (2/1/2021):** The significant scope elements А **PM/Designer** (2/3/2021): Although there is no specific section titled "Significant scope elements" in the report, the has not covered the items below. Please provide details on these scope elements. cost estimate accounted for the following items a. The report, indicates the proposed bridge configuration is two – a). The Plan and Transverse section are correct. b). Existing and proposed approach roadway cross sections 11-foot lanes with 4-foot shoulders (= 15'-0'' each direction). will be prepared during the scoping phase. however, the Plan and Transverse Section show 15'-1" each c). From as-built drawings and information from site visit, direction. Please verify and revise one accordingly. it is obvious that the bridge foundation will be shallow. See b. Approach Roadway – Please provide the Existing and proposed pictures in the project narrative. cross sections. d). The RW phase estimate provided by district RW&UT c. Geotechnical - Please discuss Site Soils/Geology and how that section incorporate costs for potential utility relocation. impacts potential foundation options. e). Not applicable at pre-scoping stage. This will be d. Utility Impacts - Not included in the report. addressed during the public involvement stage of project e. Stakeholders - Not included in the report. development process f. Complex project elements - Not included in the report. f). Not applicable to this project. **BMPA** (3/2/21) The amount of approach roadway work to be determined during pre-scoping and project selection. It appears that a minimal amount of work is needed to tie the exiting bridge into the existing approach roadway (say 150 ft). Also, the new bridge is skewed differently than the existing bridge which could cause an alignment shift. Please clarify why this is needed. Please clarify. IIM-LD-260/IIM-IID-11 requires that "All assumptions for the project cost estimate shall be clearly documented" and that "all items assumed to be covered by the cost estimate shall be included in the stated assumptions." Further requirements for SGR bridge projects were specifically outlined on the SGR bridge webpage.

| Indicate document reviewed or use "G" for general comment. To be filled out by Project Manager in conjunction with Designer. | (4) To be filled out by Reviewer.(5) Provide name of reviewer and the date of the comment. |
|---|---|
| (3) To be filled out by Reviewer based on review by Project Manager and Reviewer (list date resolved). | Mutual resolution requires concurrence by BOTH the Project Manager and the Reviewer. |
| | |

| Scor | VI PE OF WORK: Bridge R | PROJEC COMMENT AND R | T OF TRANSPORTATION TREVIEW ESOLUTION SHEET UPC NUMBER: N/A | | REVIEWER CODES: A. REQUIRED TO BE ADDRESSED. SIGNIFICA B. REQUIRED TO BE ADDRESSED. POTENTIA C. SHOULD OR RECOMMENDED TO BE ADDR D. GOOD PRACTICE. COULD BE ADDRESSED E. BEST PRACTICE. COULD BE ADDRESSED FEDERAL STRUCTURE ID: 1032 | AL SIGNIFICANT ISSUE. RESSED. D |
|------|----------------------------|---|---|---------------------|---|---------------------------------------|
| Desc | RIPTION: RTE. 159 OVE | R DUNLAP CREEK | REVIEW PHASE: PRE-SCOPING/FUNDING | Γ | DISCIPLINE: VARIOUS – SEE BELOW | REVIEW TYPE: QA REVIEW |
| No. | DOCUMENT ⁽¹⁾⁽⁴⁾ | Review | ver / Date / Comment ⁽⁴⁾⁽⁵⁾ | CODE ⁽⁴⁾ | DATE / RESPONSE ⁽²⁾ | |
| 7 | Cost Estimate | date for funding is for FY 2025. Also revise the PE 1 Project Development sche be updated accordingly. BMPA (3/2/21): Please in we can provide the full co Engineer. We will review is possible. If not possible phase that accommodates Program deficit of \$1 due to the impacts from 0 UPC 13285 CN start in H 0 UPC 104182 with CN start 0 UPCs 10417 | (Fed ID 16026): \$986,060 budget increase Y21 2 (Fed ID 16985): \$466,375 budget increase | A | PM/Designer (2/3/2021): This is a poster Fracture Critical elements, high economic political inquiries. The project has broug Bridge Engineer's attention. Therefore, to dates were customized for this project. | ic impact, and the state |
| 9 | Cost Estimate | Consultant Reviewer (2/ inflation computation to r | 1/2021) Comment: Please revise the effect more accurate duration for each PE, revised dates mentioned above. | A | PM/Designer (2/4/2021): The dates for the PE, RW, and CN phase intentionally modified. See response to c inflation costs were computed using real each phase. | comment 7. The |

| Indicate document reviewed or use "G" for general comment. To be filled out by Project Manager in conjunction with Designer. To be filled out by Reviewer based on review by Project Manager and Reviewer (list date resolved). | (4) To be filled out by Reviewer.(5) Provide name of reviewer and the date of the comment.Mutual resolution requires concurrence by BOTH the Project Manager and the Reviewer. | | | |
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| | | | | | | PAGE 3 OF 3 |
|------|---|--|--|--|---|--|
| | Vir | PROJEC | T OF TRANSPORTATION T REVIEW ESOLUTION SHEET | | REVIEWER CODES: A. REQUIRED TO BE ADDRESSED. SIGNIFICA B. REQUIRED TO BE ADDRESSED. POTENTIA C. SHOULD OR RECOMMENDED TO BE ADDR D. GOOD PRACTICE. COULD BE ADDRESSED E. BEST PRACTICE. COULD BE ADDRESSED | L SIGNIFICANT ISSUE. ESSED. D |
| Scor | SCOPE OF WORK: BRIDGE REPLACEMENT UPC NUMBER: N/A | | UPC NUMBER: N/A | | FEDERAL STRUCTURE ID: 1032 | DATE: VARIES PER BELOW |
| Desc | RIPTION: RTE. 159 OVER | R DUNLAP CREEK | REVIEW PHASE: PRE-SCOPING/FUNDING | EVIEW PHASE: PRE-SCOPING/FUNDING DISCIPLINE: VARIOUS – SEE BELOW | | REVIEW TYPE: QA REVIEW |
| No. | DOCUMENT ⁽¹⁾⁽⁴⁾ | Review | NER / DATE / COMMENT ⁽⁴⁾⁽⁵⁾ | CODE ⁽⁴⁾ | DATE / RESPONSE ⁽²⁾ | |
| 15 | Prescoping Report | | (1/2021): Discuss pedestrian-bicycle needs. bicycle corridor in the 2006 rural bicycle | D | PM/Designer (2/4/2021): Per IIM-S&B-95, bridge widening to acc or pedestrian facilities do not qualify for the approach roadway do not have such the | SGR funds since |
| 16 | Prescoping Report | | (1/2021): There are driveways immediately ting bridge. Explain how access will be action. | D | PM/Designer (2/4/2021): Temporary signals will be installed to ma during construction. | aintain access |
| 18 | Prescoping Report (Design Criteria) | Consultant Reviewer (2 , 2000, not 400 to 1500 as | (1/2021): For GS-3 the ADT range is 400 to indicated in the report. | D | PM/Designer (2/4/2021): Accepted | |
| 19 | Narrative | would force dropping the | 21): The proposed multi girder bridge low chord or a profile raise and hence ategory should be verified or full H&HA | A | PM/Designer (2/4/2021): Based on preliminary design of the girde neither drop the low chord nor raise the f HERS is warranted. Minor hydraulic ana conducted for the temporary bridge. | inish grade. Thus, |
| 20 | Cost estimate | S&B Reviewer (1/29/202 raise if applicable | 21): Please adjust cost related to profile | А | PM/Designer (2/4/2021): Not applicable. | |
| 21 | Cost estimate | | 21): CN costs should reflect temporary on costs related to the use of a temporary y VDOT | A | PM/Designer (2/4/2021): The lump sum price for bid item 60125 M Bridge) includes erection and dismantle Maybey bridge as well as installation & temporary abutments made of reinforced is based on a similar project currently un | of VDOT owned removal of soil fill. The cost |
| 22 | Narrative | federal funding due to the | rrative states the project is eligible for e sufficiency rating. As an FYI, the nger used or applicable for federal funds expected or required. | FYI | | |

| Indicate document reviewed or use "G" for general comment. To be filled out by Project Manager in conjunction with Designer. To be filled out by Reviewer based on review by Project Manager and Reviewer (list date resolved). | (4) To be filled out by Reviewer.(5) Provide name of reviewer and the date of the comment.Mutual resolution requires concurrence by BOTH the Project Manager and the Reviewer. |
|---|--|
| | |

UPC: XXXXX

Date: 12/15/2020

PROJECT NARRATIVE

PURPOSE:

The purpose of this project is to replace an existing posted, structurally deficient bridge consisting of Fracture Critical elements without added capacity on Route 159 over Dunlap Creek (Virginia Structure No. 1039, Fed ID. 1032). The project is located in Alleghany County approximately 1.4 miles from Route 311 and 0.95 to Route 717. Route 159 is a primary state highway that serves the southwestern part of Alleghany County. The area immediately adjacent to the project location is populated with residential properties. In 2018 the traffic count for Route 159 showed an ADT of 673 vehicles per day with 9% truck traffic.



DESCRIPTION OF EXISTING TRANSPORTATION ELEMENTS:

The width of Route 159 approach roadway to the bridge is predominately 20'and it has a 55 mph speed limit. The approach alignment has minor vertical curve variations and relatively straight horizontal alignment. The existing Route 159 Bridge was built in 1928. It is a 95'-0" long, single-span, 23.95 foot wide Thru-Truss structure with CIP concrete deck built on a 30 degree skew (RHB). See existing plans for additional information.

The Sufficiency Rating of the bridge is 45.1 on a scale from 0 to 99. Considering the condition of fracture critical members, the superstructure received a rating of 4 and the substructure rated 4 on a scale of 0 to 9. The structure classified as structurally deficient and posted for weight limits. The current facility has a scour rating of 8, indicating the site is not susceptible to scour. Refer to the current

Route 159 Over Dunlap Creek

Alleghany County

Pre-scoping Narrative by AMA

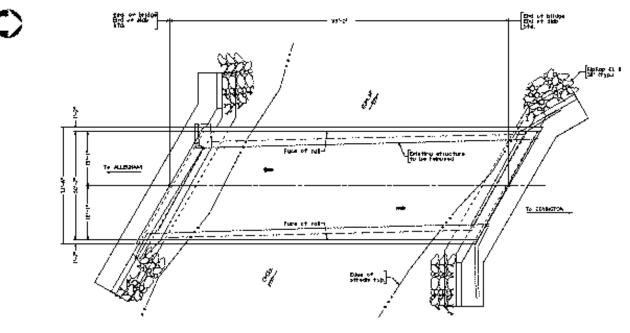
inspection report for more information. The condition of the existing bridge qualifies the structure as a candidate for Federal funds for replacement or rehab.



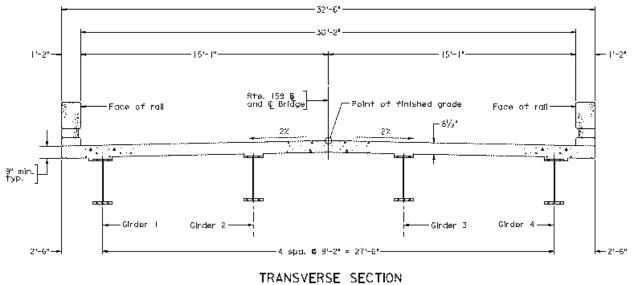
DESIGN CRITERIA:

This project will be designed using AASHTO Geometric Design Guidelines for Rural Collector Road System (GS-3) with (400<ADT<2,000) vehicles per day. The location meets the criteria contained in the design guide regarding traffic volume and roadway classification

The AASHTO LRFD Bridge Design Specifications, Eight Edition, 2017, will be used in the design of replacement structure. The proposed bridge will have 2 - 11 foot lanes with 4'-1" shoulder. The new bridge will be 32'-6" wide (out-to out) and 93'-0" long. The superstructure consists of steel plate girders with CIP concrete deck. The substructures will be semi-integral abutments on spread footing. Based on information from as-built drawings and site visit, there are exposed competent bedrocks (see pictures below) to support the bridge foundation. This will be further evaluated through subsurface exploration during the PE phase. The current horizontal alignment will be maintained. All scope elements are eligible for SGR per IIM-S&B-95. Also, waiver of the requirements in IIM-S&B-95 are not required.



PLAN



Scale: $\frac{3}{6}$ = 1'-0"

Project: 0159-003-1039, PXXX, RXXX, MXXX, BXX

UPC: XXXXX





MAINTENANCE OF TRAFFIC (MOT):

During construction, the existing Route 159 traffic will be maintained at all times. A temporary diversion will be constructed allowing single lane of traffic to be maintained during the construction of

Route 159 Over Dunlap Creek

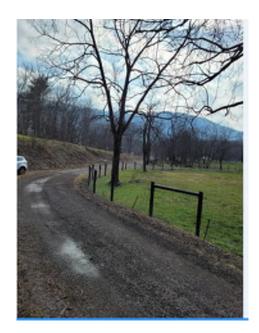
Alleghany County

Pre-scoping Narrative by AMA

UPC: XXXXX

this project. A 120 foot long, single lane VDOT owned MABEY Bridge will be constructed west or downstream of the existing bridge in order to maintain the required traffic flow. Portion of an existing private road will be upgraded and utilized. Pre-scoping level of coordination has been done with the residency engineers. The work zone will be marked and signed appropriately to allow for existing traffic to follow the temporary detoured traffic pattern. There are no commercial entrances impacted by this project.





PROJECT VALUE:

This project replaces an existing substandard, structurally deficient, fracture critical bridge with weight limit on it on a primary State route that serves both town and county residents along with local business concerns. If not replaced the existing bridge will continue to deteriorate and would eventually have to be closed to vehicular traffic.

ALTERNATIVE ANALYSIS:

Although a complete alternatives analysis as outlined in Chapter 32 of the Manual of the S&B Division is required for SGR Bridge applications, this project meets one of the mitigating factors listed on file No. 32.02-1. Therefore, we recommend a replacement since this can be justified than rehabilitating fracture critical bridge.

RISK ASSESMNET:

During the pre-scoping phase, some activities such as survey, hydraulic analysis, defining the bridge geometry and preliminary analysis etc have been done to well define the scope of the project and minimize the risk level. In addition, information obtained from available resources such as as-built plans and site visit utilized to alleviate uncertainties in bridge foundation. However, this information cannot guarantee depth to rock and it could be a potential risk that leads to cost overrun. Although property owners adjacent to the bridge site are in favor of the project, upgrading portion of the existing private road and use it as temporary detour may be another risk factor. Given these uncertainties, a medium risk

level is assigned to the RW and CN phases of this project while low risk is assumed for the PE phase. As such, appropriate contingencies have been applied to the total estimate.

PROPOSED SMART FLAG:

Given the fact that the existing structure is a truss bridge, a DRF-1 (Design Redundancy) Smart Flag was used in this project. The latest inspection report shows that the Fracture Critical elements are in Poor condition.

CONSTRUCTION AND FINANCING:

Assumed construction advertisement date is: Summer 2028. SYIP 2022-2027

The project cost is estimated as follows:

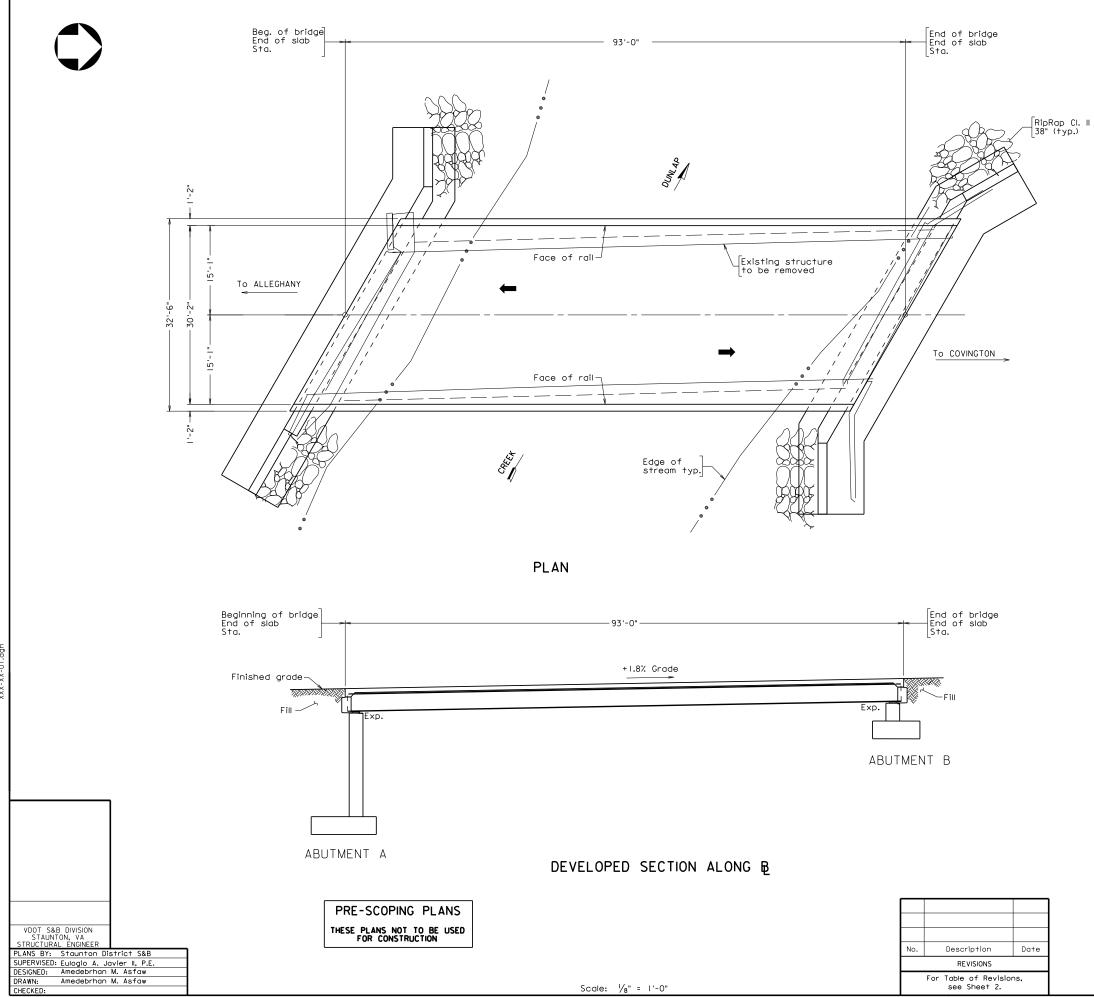
PE \$784,249 RW \$357,172 CN <u>\$6,547,845</u> Total = **\$7,689,266**

See supporting documents for detail breakdown of the above estimate and pertinent assumptions.

| Phase | Base (\$) * | Contingency (\$) * | Inflation (\$) ** | Total *** |
|-------------------|-------------|--------------------|-------------------|------------|
| PE Phase Estimate | \$615,000 | \$61,500 | \$107,749 | \$784,24 |
| RW Phase Estimate | \$237,000 | \$71,100 | \$49,072 | \$357,17 |
| CN Phase Estimate | \$4,054,544 | \$1,159,810 | \$1,333,491 | \$6,547,84 |
| Total Estimate | \$4,906,544 | \$1,292,410 | \$1,490,312 | \$7,689,26 |

** Obtain Inflation costs from SMART Portal or PCES workbook and enter into highlighted cells.

*** Total Costs shall match with total costs in SMART Portal or PCES.



| STATE | | FEDERAL AID | | STATE | SHEET |
|---------------|-------|-------------------|-------|---------------------|-------|
| STATE | ROUTE | PROJECT | ROUTE | PROJECT | NO. |
| VA. | _ | 1 | 159 | 0159-003-1039, BXXX | |
| NBIS I | Numbe | r: 000000000XXXXX | UPC | No. XXXXX | |
| F adar | | ersight Code: N/A | | Construction X071-S | 58 |

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 30'-2" face-to-face of rail.

Span layout: 93'-0" Single span steel plate girders or steel rolled beams. Capacity: HL-93 loading.

Drainage area: sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: ASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

This project is to be constructed in accordance with the Virginia Department of Transportation Work Area Protection Manual, August 2011 and latest revisions.

Design loading includes 20 $\ensuremath{\mathsf{psf}}$ allowance for construction tolerances and construction methods.

All structural steel, including bearings and anchor bolts, shall be ASTM A709 Grade 50W and shall be unpainted.

Concrete in superstructure, rails, terminal walls, and integral backwalls shall be Low Shrinkage Class A4 Modified Lightweight in accordance with Section 217.12; in abutments, Class A3.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60 except for steels noted as Corrosion Resistant Reinforcing (CRR) which shall conform to Section 223 of the Specifications. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

CRR steels shall conform to one or more of the three Classes listed in Section 223 of the Specifications. The Class(es) of CRR steel(s) required on this project is/are noted on plan sheets and in the reinforcing steel schedule. CRR Steel, Class II or Class III may be substituted for Class I. CRR Steel, Class III, may be substituted for Class II. Class II.

Bridge No. of existing bridge is 1032. Plan No ..

B.M.: See road plan.

General Notes continued on next sheet

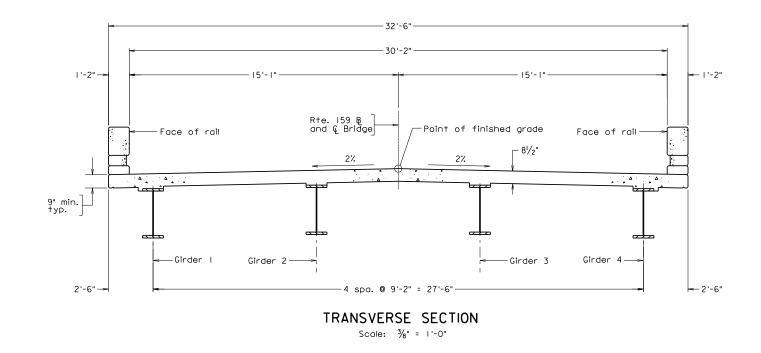


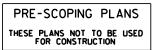
COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION PROPOSED BRIDGE ON

RTE. 159 (DUNLAP CREEK ROAD) OVER DUNLAP CREEK ALLEGHANY CO. - I.4 MI. TO RTE. 311 & 0.95 MI TO RTE. 717 PROJ. 0159-003-1039, BXXX

| late: | © 2019, Commonwealth of Virginia | Sheet I of X |
|---------------------------|-------------------------------------|--------------|
| ORIGINAL SIGNATURES ON | TITLE SHEET OF ROAD PLANS | XXX-XX |
| | District Administrator | Date |
| Approved: | | |
| Recommended for Approval | District Project Development Engine | |
| Performended for Approval | | |





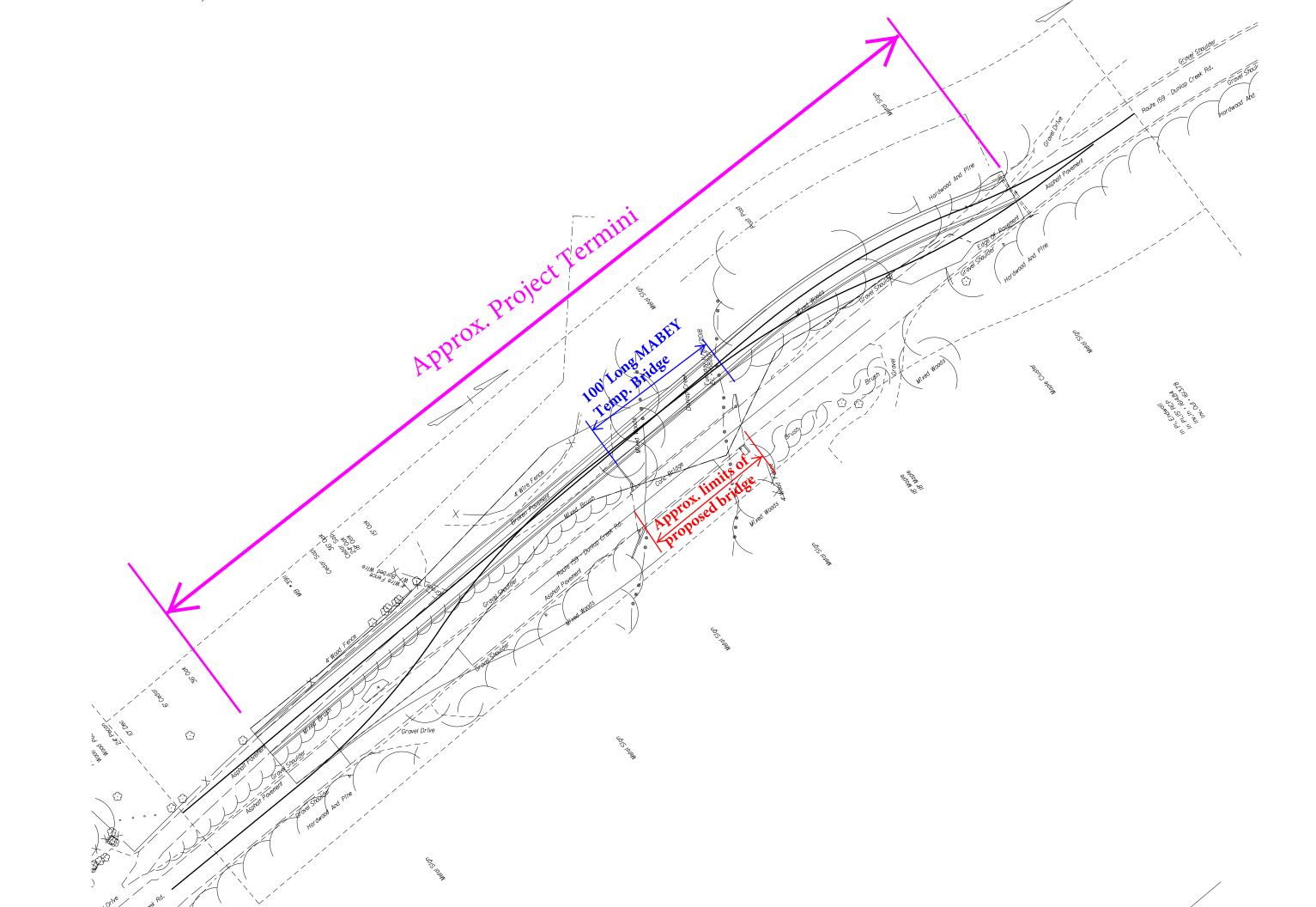
VDOT S&B DIVISION STAUNTON, VA STRUCTURAL ENGINEER

Scale: as shown

© 2019, Commonwealth of Virginia

| STATE | | FEDERAL AID | | STATE | SHEET |
|-------|-------|-------------|-------|---------------------|-------|
| STATE | ROUTE | PROJECT | ROUTE | PROJECT | N0. |
| VA. | — | | 159 | 0159-003-1039, B××× | |
| - | | | | | |

| | | | COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION | | | | |
|-----|-------------|------|--|------|----------|-----------|--|
| | | | STRUCTURE AND BRIDGE DIVISION | | | | |
| | | | TRANSVERSE SECTION | | | | |
| No. | Description | Date | Designed: AMA Drawn:AMA | Date | Plan No. | Sheet No. | |
| | Revisions | | Drawn:AMA Checked: Nov. 2019 X of X | | | | |



| | 0.45 | | | |
|--|--|-------------------------------|---|--------------------|
| | | PROJECTS COST ESTIMATE SUM | | |
| | | /2020 - CTS Modified | | |
| Portal ID: | X . | | Project UPC: | NA |
| Prepared By: | AM | A | Milestone | Creation/Pre Scope |
| Reviewed By: County/City/Town: | Alleghany Co | ounty (03) | Date: Tier Level | 12/15/2020 |
| Preliminary Engineeri | | Junty (03) | Tiel Level | |
| Project Estimate Co | • | Dress | and Decient Cost Estimat | |
| , , | Source | Base (\$) | osed Project Cost Estima Contingency (%) | Total |
| Discipline | | \$ 210,000 | 10.00% | \$231,000 |
| Roadway Hydraulics | Profess. Judgement Profess. Judgement | \$ 25,000 \$ | 10.00% | \$27,500 |
| In-plan Utilities | Profess. Judgement | \$ 15,000 | 10.00% | \$16,500 |
| Traffic | Profess. Judgement | \$ 30,000 | 10.00% | \$33,000 |
| Structures/Bridges | Profess. Judgement | \$ 230,000 | 10.00% | \$253,000 |
| Materials/Geotech | Profess. Judgement | \$ 50,000 | 10.00% | \$55,000 |
| Survey | Profess. Judgement | \$ 15,000 | 10.00% | \$16,500 |
| Environmental | Profess. Judgement | \$ 20,000 | 10.00% | \$22,000 |
| Right of Way | Profess. Judgement | \$ 20,000 | 10.00% | \$22,000 |
| Other | Profess. Judgement | | | \$0 |
| | VDOT Oversight Costs | | | \$0 |
| | Total PE Phase Estimate | \$ 615,000 | 10.00% | \$676,500 |
| PE Base Estimate Date PE Phase Dates (XX/XX/XXXX) | (12/15/2020) Start Date | 7/15/2022 | End Date | 7/15/2025 |
| · · · · · · | | //15/2022 | End Date | //15/2025 |
| Right-of-Way & Utilit | T | - (1) | | _ |
| Discipline | Source | Base (\$) | Contingency (%) | Total |
| Right-of-Way Out-of-Plan Utilities | Pre-Scoping Plans | \$87,000 | 30.00% | \$113,100 |
| (power, cable, gas, etc.) Pre-Scoping Plans | | \$150,000 | 30.00% | \$195,000 |
| VDOT Oversight Co | | | | \$0 |
| | Total RW Phase Estimate | \$237,000 | 30.00% | \$308,100 |
| RW Base Estimate Date | (XX/XX/XXXX) | | | |
| RW Phase Dates (XX/XX/XXXX) | Start Date | 7/15/2025 | End Date | 7/15/2026 |
| Construction | | | | |
| Discipline | Source | Base (\$) | Contingency (%) | Total |
| Mobilization | Norms | \$203,779 | 40.00% | \$285,291 |
| MOT | | | 40.00% | \$0 |
| Roadway Hydraulics | Pre-Scoping Plans | \$1,038,406 | 40.00% 40.00% | \$1,453,768 \$0 |
| In-plan Utilities | | | 40.00% | \$0 |
| Traffic | | | 40.00% | \$0 |
| Structures/Bridges Materials/Geotech | Pre-Scoping Plans | \$1,657,340 | 40.00% | \$2,320,276 |
| Soundwalls | | | 40.00% | \$0 \$0 |
| Other | Profess. Judgement | \$103,841 | 0.00% | \$103,841 |
| Incidental Claims & March O. J | Total Bid Items | \$3,003,366 | 38.62% | \$4,163,176 |
| Incidental-Claims & Work Orders (Percentage of Bid Items) | 5% to 10% max | 150,168 | | 150,168 |
| Railroad Flagging/Coordination | | | | 0 |
| State Forces | | | | 0 |
| State Police Contract Requirements | | | | 0 |
| (Incentive/Disincentive) | 5% | 300,337 | | 300,337 |
| | Environmental | 60,067 | | 60,067 |
| Construction Engineering | Inspection (\$) VDOT or Locality (\$) | , | | 0 |
| (Inspection) | VDOT OF Locality (\$) VDOT Oversight (\$) | 540,606 | | 540,606 |
| | Total CEI | | | 600,673 |
| | Total CN Phase Estimate | \$4,054,544 | 28.61% | \$5,214,354 |
| CN Base Estimate Date CN Phase Start Date () | . , | 12/15/2020 11/15/2026 | | |
| CN Phase End Date (X | | 6/15/2028 | | |
| Total Project Cost | Estimate | | | \$6,198,954 |

Notes / Assumption / Documentation

| Preliminary Engineering | Creation / Pre-scope (prior to project initiation) | Final Scopi |
|-------------------------|--|-------------|
| Roadway | | |
| Hydraulics | 1 | |
| In-plan Utilities | 1 | |
| Traffic | | |
| Structures/Bridges | | |
| Materials/Geotech | | |
| Survey | | |
| Environmental | | |
| Right of Way | | |
| Other | 1 | |
| Contingencies | 12% assuming low risk level | |

| Right-of-Way & Utilities | | |
|---------------------------|-----------------------------|--|
| Right-of-Way | | |
| Out-of-Plan Utilities | | |
| (power, cable, gas, etc.) | | |
| Contingencies | 30% assuming low risk level | |

| Construction | | |
|--------------------|--------------------------------|--|
| Mobilization | | |
| MOT | | |
| Roadway | | |
| Hydraulics | | |
| In-plan Utilities | | |
| Traffic | | |
| Structures/Bridges | | |
| Materials/Geotech | | |
| Soundwalls | | |
| Other | | |
| contingencies | 40% assuming medium risk level | |

| VDOT | SUMMARY | PAGE | - | - | | | | |
|-------------------------------------|---|-----------|----------------------------|--------|--|--|--|--|
| | | | | | | | | |
| | DISTRICT | S | FAUNTON | | | | | |
| | PROJECT NUMBER | PE | 18968442 | | | | | |
| CONST | RUCTION END YEAR | FY2030 | UPC | 111098 | | | | |
| | AD YEAR | FY2027 | RATE OF INFLATION TO AD | 18.25% | | | | |
| | ESTIMATE YEAR | FY2021 | INFLATION RATE | 4.64% | | | | |
| | Date of previous estimate | 12/16/20 | DURING CN | | | | | |
| | NAGER / DESIGNER | | ogio.Javie | , I | | | | |
| | | | | | | | | |
| Preliminary | Engineering Estimate: | MANU | AL | | | | | |
| (| Construction Estimate: | MANU | | | | | | |
| I | Right-of-Way Estimate: | MANU | | | | | | |
| | Utilities Estimate: | MANUAL | | | | | | |
| | DATE | 8/11/2021 | | | | | | |
| | G DATA WILL BE PROVIDED UPON VHICH IS ACCESSED BY SELECTIN | | | | | | | |
| | Bridge PE ESTIMATE | \$0 | | | | | | |
| | Bridge CN ESTIMATE | \$0 | | | | | | |
| | Bridge RW ESTIMATE | \$0 | | | | | | |
| PRELIMINARY ENGINEERING | ESTIMATE (excluding Bridge PE) | \$676,5 | 500 | | | | | |
| CONSTRUCTION | ESTIMATE (excluding Bridge CN) | \$6,457, | 712 | | | | | |
| RIGHT-OF-WAY & UTILITIES | ESTIMATE(excluding Bridge RW) | \$325,5 | | | | | | |
| TOTAL PROJECT ESTIMA | TE (excluding Bridge estimate) | \$7,459, | 712 | | | | | |
| C Virginia Department of Transporta | tion 2005 | | | | | | | |

| | | | UPC: 111098 |
|--|---|-------------------------------|---------------------------|
| VDOT | Project Cost Estimation CONSTRUCTION / | | VDOT |
| Project No. | PE18968442 | | |
| Interstate Project ? | 0 | 0 | |
| Route Number | | | |
| Geometric Standard Construction Base Bridge Removal | CONST-1 | CONST-2 \$0 | Total \$0 |
| To AdYear Inflation Mid-point construction Inflation Total Construction Estimate | | | |
| CONS | TRUCTION | & PE TOTALS | |
| | struction Estimate Roadway plus Bridge) | <mark>\$6,45</mark> | 7,712 Manual |
| Total Preliminary Eng (I | <mark>jineering Estimate</mark> Roadway plus <mark>Bridg</mark> e) | \$67 | <mark>6,500</mark> Manual |
| Virginia Department of Transportation 2005 © Revised 07/01/20 | | Today's Date: 08/11/21 | Version 10.00 |

| | | | | | UPC: 11109 |
|---------------|---|--|-------|--|---|
| VDOT | - | stimating System ON / BRIDGE / PE | | | VDOT |
| | Project No. Interstate Project ? Maintenance Project ? Route Number Geometric Standard | PE18968442 | * * * | | o All Applicable White om Top to Bottom) |
| | Ad Date Design Year ADT OR Current (Recent) ADT | | * | Project Terrain | |
| Total | Box Must Be Empty Box Must Be Empty Box Must Be Empty Project Length (mi.) | | * | Design Speed = Number of Additional Lanes: | Length of Add'l. Lanes (mi.): |
| Total L To | Length -Adding or Building <u>Two Lanes</u> (mi.) Length - Adding or Building <u>Four Lanes</u> (mi.) tal Length - Building <u>Ramps</u> and <u>Loops</u> (mi.) oulder or Curb & Gutter ? (Select S or C&G) Median Type - Graded, Raised, or None ? | | * * * | None None Enter Lane Width (ft) Normal Lane Width(ft) | |
| Lengt | ber of Crossovers (Divided Highways ONLY) h - Curb & Gutter - Left PLUS Right Side (ft.) Length - Sidewalk - Left PLUS Right Side (ft.) Bike / Pedestrian Type | () [] [| * | | |
| | Total Length - Raised Median (ft.) r of <u>Right Turn Lanes</u> - Left PLUS Right Side umber of Left Turn Lanes - (Undivided Only) | | * | 90% | STAUNTON 6 Cost Factor used |
| , | Signals, ITS, Signs and Lighting Costs* Cost of Large Drainage Structures In-Plan Utility Costs* Adjustment for Unusual Construction Costs * Totals include district factor calculations | \$0 \$0 \$0 \$0 \$0 | | Construction Costs Base #1 Base #2 Enter Const CE Cost CE Estimate (2021) | \$0 \$0 \$0 \$0 \$0 \$0 |
| | Additional (or Unusual) P. E. Costs | | | | |

PE Cost

| Select % of PE to be performed by Consultants | PE Cost | \$0 |
|--|---------------------------------------|---------------|
| Note: Do Not Include Bridge P. E. Costs Here | Roadway P. E. / Roadway Const. = 0.0% | |
| © Virginia Department of Transportation 2005 Revised 07/01/20 | Today's Date: 08/11/21 | Version 10.00 |

| | | | | UPC: 111098 |
|--|---|--------------------|--------------------------|----------------------|
| VDOT | | Estimating System | | VDOT |
| | | TION / BRIDGE / PE | | |
| | Project No. | PE18968442 | Select / Enter Data into | All Applicable White |
| | Interstate Project ? | * | Boxes (in order fror | |
| | Route Number | * | • | |
| | Geometric Standard | * | ¢ | |
| | Ad Date | 2027 | | |
| | Design Year ADT OR | * | Project Terrain | |
| | Current (Recent) ADT | | ¢ | |
| | Box Must Be Empty | | Design Speed = | |
| | Box Must Be Empty | | Design Opeen - | |
| | Box Must Be Empty | | | |
| | Project Length (mi.) | · | Number of Additional | Length of Add'l. |
| Total | Length -Adding or Building <u>Two Lanes</u> (mi.) | | Lanes: None | Lanes (mi.): |
| | _ength - Adding or Building Four Lanes (mi.) | | None | |
| | tal Length - Building <u>Ramps</u> and <u>Loops</u> (mi.) | | None | |
| | oulder or Curb & Gutter ? (Select S or C&G) | | Enter Lane Width (ft.) | |
| | Median Type - Graded, Raised, or None ? | · | Normal Lane Width (ft.) | 0 |
| Num | ber of Crossovers(Divided Highways ONLY) | · | · · · | |
| | th - Curb & Gutter - Left PLUS Right Side (ft.) | | | |
| J. J | Length - Sidewalk - Left PLUS Right Side (ft.) | | | |
| | Bike / Pedestrian Type | None | | |
| | | | | |
| | Total Length - Raised Median (ft.) | | | |
| Numbe | r of <u>Right Turn Lanes</u> - Left PLUS Right Side | · | ¢ | |
| Nu | umber of Left Turn Lanes - (Undivided Only) | * | e | |
| | | | Construction Costs | |
| | | | Base #2 | \$0 |
| © Virginia Department of Revised 07/01/20 | Transportation 2005 | Today's Date: 08 | 8/11/21 | Version 10.00 |

| V | рат | Project Cost Estimating System Miscellaneous Cost Estimates | VDOT |
|------|-----------|--|------------|
| | | COST OF LARGE DRAINAGE STRUCTURES | |
| Job# | Descripti | on | Cost () |
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| | A | DJUSTMENT FOR UNUSUAL CONSTRUCTION COST | S |
| Туре | | Description | Cost () |
| | | Unsuitable Material Excavation / Backfill | |
| | | MOT / Concrete Barrier / Temporary Pavement | |
| | | Soundwalls | |
| | | Retaining Walls / MSE Walls | |
| | | Unusual Borrow / Fill (Anything over 3ft of cut/fill) | |
| | | Wetlands / Stream relocation / Nutrient Credits | |
| | | Stormwater Management Costs | |
| | | Unusual Risks / Contingency for unknowns | |
| | | Railway Flagger | |
| | | Pavement Resurfacing / Buildup | |
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|----------------------|----------------------------|---------------------|-------------------|-------------|
| | DATE | PE | RW | CN |
| EXPENDITURES RUMS | 09/17/20 | , , | \$0 \$0 | \$0 |
| TRNS*PORT | 12/10/20 | | Φ Ο | \$0 |
| AWARD | 12/16/20 | | | \$0 |
| PROJECTION | 12/16/20 | | | \$0 |
| | | ESTIMATE YEAR | | AD YEAR |
| | | FY2021 | 18.25% | FY2027 |
| | | \$676,500 | PE | \$676,500 |
| | | \$325,500 | RW | \$325,500 |
| | | \$5,219,145 | CN | \$6,171,651 |
| | | \$6,221,145 | TOTAL | \$7,173,651 |
| Job # Phase | Comment | | - | Estimate |
| | | | | |
| PE | | hann and contingen | w agata from the | \$676,500 |
| | workbook | base and contingend | by costs from the | |
| | | | | · |
| RW | | | | \$325,500 |
| | workbook | base and contingend | cy costs from the | |
| | | | | J |
| CN | | | | \$5,219,145 |
| | Use combined I workbook | base and contingend | cy costs from the | |
| | WORKBOOK | | | 1 |
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| Job # | Phase | Comment | Estimate |
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PROJECT COST ESTIMATE

PROJ.: 0159-003-1039

SITE: Alleghany County

PROJ.: 0159-003-1039

SITE: Alleghany County

| 25565 PROGRESS SCHEDULE BASELINE LS 1 10000 \$ 10,000.00 Locked ENGINEERING \$ 177,020.58 25567 PROGRESS SCHEDULE UPDATES EA 17 \$740.40 \$ 12,586.80 Locked EA EA 17 \$740.40 \$ 12,586.80 Locked EA EA 17 \$740.40 \$ 12,586.80 Locked EA 17 < | TEM ITEM DESCRIPTION | <u>UNITS</u> | <u>QUAN.</u> | UNIT PRICE | AMOUN | <u>[</u> | Locked | MOBILIZATION | \$ 112,866. | 95 = \$80,000 |
|--|---|--------------|--------------|--------------|-------|------------|--------|--------------------|----------------|---------------------------|
| Segge Full OFFICE TY1 MO 18 \$2.10.00 fLoor \$3 7.70.00.00 Lower Segge Procenses Scienciful exactine LS 1 10000 fS \$10.000.00 Lower ENSINEERING \$1 T7.020.58 Segge Procenses Scienciful exactine LS 1 \$520.000.00 \$250.000.00 Lower ENSINGECK Recoving Segge Frider Ans Prover TemP Bilder) LS 1 \$520.000.00 \$250.000.00 Lower CONTINCENCES \$3.354.001.17 Segge Frider Ans Prover TemP Bilder) LS 15 \$154.000.00 Lower TOTAL \$2.000.00 Current Segge Frider Ans Prove TemP Bilder) LS 8110.00 \$3.52 \$7.040.00 Lower Prove Signer District Non-Lineer Statistic Conscional Prove Temp Bilder LS 8110.00 \$3.52 \$3.50.00.00 Lower Prove Lineer District Non-Lineer Statistic Conscional Prove Temp Bilder LS 8110.00 \$3.50.00.00 Lower Prove Lineer Prove Lineer Statistic Conscional Prove Temp Bilder LS 1 \$30.00 | 101 CONSTRUCTION SURVEYING (CONSTR.) | LS | 1 | 15000 | \$ | 15,000.00 | Locked | SUBTOTAL | \$ 1,770,205. | <mark>85</mark> \$ 1,657, |
| Serger Proceedings Schedule UPDATES EA 17 \$740.40 S 12586.80 Loaded DB211 Son Songer (Refort Ano Review) TEMP BININAGE CY 110 \$51,400.00 \$250.000.00 Loaded DB411 CONC. CLASS AM MOL LIGHTWEIGHT LOW SHRINKAGE CY 110 \$51,400.00 \$250.000.00 Loaded DB411 SCRCCHER CARDONING RESISTART REPORTEL CL.1 LB 20000.00 \$35.52 7.95.00 Loaded D111 CORRGIDS SUPERSTRUCTURE (FIP) SUPERSTRUCTURE (FIP) SUPERSTRUCTURE (FIP) SUPERSTRUCTURE (LOW RPORTE BARINO FIP) \$15 \$17.734 \$25.00.00 Loaded D121 STRUCTURE (LOW RPORTE BARINO FIP) SY 15 \$17.734 \$25.00.00 Loaded Price Model Date: 11/2/2020 Current D2525 NB BRIDGE SUPERSTRUCTURE (LOW RPORTE BARINO FIE) S 1 \$30.00.00 Loaded Price Model Date: 11/2/2020 Current D2525 NB BRIDGE SUPERSTRUCTURE (LOW RPORTE BARINO FIE) S 1 \$30.00.00 Loaded Price Model Date: 11/2/2020 Current D2525 NB BRIDGE SUPERSTRUCTURE (LOW RPORTE EXAVATON CY 14/20 S50.00 S 1000.00 Loaded D2505 NB BRIDGE SUPERSTRUC | 25506 FIELD OFFICE TY.II | MO | 18 | \$2,100.00 | \$ | 37,800.00 | Locked | - | | |
| Seed Proceeds Schedule UPDATES EA 17 \$740.40 S 12586.80 Loosed Openance (Refort Ans Revisor) LS 1 \$250.000.00 S 250.000.00 Conservation Seed 10 CONC CLASS ALMOND TEMP RINK AGE CY 110 \$140.000.0 S 1250.000.00 Conservation CONTINGENCIES 354.041.17 Seed 20 COVER DEPTH SURVEY SY 317 \$15.00 S 7.95.00 Loosed S111 CORRGINESSIANT REINF STELL CL LB 20000 S5.52 7.04.00.00 Loosed Mon-Linear S112 STR STPLATE GRIDER ASTM ATTIG GRISON LS 81100 \$3.10 S 25.868.800 Loosed Mon-Linear S2523 NB BRIDES SUPERSTRUCTURE (LOW PROFILE BEARING EA 14 \$2.500.00 S 3.000.00 Loosed Mon-Linear S253 NB BRIDE SUPERSTRUCTURE (LOW PROFILE BEARING EA 14 \$2.500.00 S 3.000.00 Loosed 17.02.00 Loosed S253 NB BRIDE SUPERSTRUCTURE (LOW PROFILE BEARING EA 14 \$2.500.00 S 3.100.00 Loosed 3.000.00 Loosed 17.02.00 Loosed 17.02.00 Loos | 25565 PROGRESS SCHEDULE BASELINE | LS | 1 | 10000 | \$ | 10,000.00 | Locked | ENGINEERING | \$ 177,020. | 58 |
| BALLI CONC. CLASS A4 MOD. LIGHTWEIGHT LOW SHRINKAGE CV 110 \$1,400.00 \$ 1140.00 \$ 1140.00 \$ 1140.00 \$ 7,955.00 koded BAUEL COVER OEPTH SURVEY SY 317 \$15.00 \$ 7,955.00 koded ST11 CORNEGATOR RESISTANT FEWER STEEL CL L B 20000 \$5.52 704.00.00 koded ST11 CORNEGATOR RESISTANT FEWER STEEL CL L B 20000 \$5.52 704.00.00 koded ST2022 RAILINGKANSS CORPAL, 29W WOLHE LF 81100 \$5.10 \$2.850.00 koded S2223 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LS 11 \$2.200.00 \$3.000.00 Loded S2223 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$2.000.00 S3.000.00 Loded S2223 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LF 100 \$3.000.00 Loded Fricing Model Date: 11.02.2020 Current S2223 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LF 100 \$2.000.00 Loded Fricing Model Date: 11.02.2020 Current S2220 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LF </td <td>25567 PROGRESS SCHEDULE UPDATES</td> <td>EA</td> <td>17</td> <td>\$740.40</td> <td>\$</td> <td>12,586.80</td> <td>Locked</td> <td></td> <td></td> <td></td> | 25567 PROGRESS SCHEDULE UPDATES | EA | 17 | \$740.40 | \$ | 12,586.80 | Locked | | | |
| 8041 CONC. CLASS A4 MOD. LIGHTWEIGHT LOW SHRINKAGE CV 110 \$1,400,00 \$ 17,450,00 Looked 80409 BRIDGE EXCR (RDOVING) SY 317 \$15,00 \$ 7,495,00 Looked 8111 CORREGIST STELLCI, L LB 2000 S5,22 7,04,00,00 Looked Ferression Model: Non-Linear 8112 CORREGIST WERT FEWER STELLCI, L LB 2000 S1,00 S45,187 S 65,855,30 Looked 8112 CORREGIST WERT FEWER STELLCI, L LB 2000 S1,00 S 2,000,10 Looked 8110 CORSCILLST WERT FEWER STELLCI, L LB 2000 S1,00 S 2,000,10 Looked 8110 CORSCILLST WERT FEWER STELLCI, L LB 2,000,00 S 2,000,00 Looked 8222 S0 SUBERSTEUCTURE (FEWE SHORE) S 15 \$1,000,00 S 30,000,00 Looked 8223 NB SRIDGE SUPERSTEUCTURE (FEWE SHORE) TYN 2,000 S \$2,000,00 Looked Friding Model Date: 11,22020 Current 8223 NB SRIDGE SUPERSTELUCTURE (FEWE SHORE) LF 100 \$2,500,00 S \$2,000,00 Looked S \$2,000,00 <td>60125 NS BRIDGE (ERECT AND REMOVE TEMP BRIDGE)</td> <td>LS</td> <td>1</td> <td>\$250,000.00</td> <td>\$</td> <td>250,000.00</td> <td></td> <td>CONTINGENCIES</td> <td>\$ 354,041.</td> <td>17</td> | 60125 NS BRIDGE (ERECT AND REMOVE TEMP BRIDGE) | LS | 1 | \$250,000.00 | \$ | 250,000.00 | | CONTINGENCIES | \$ 354,041. | 17 |
| 00199 BNDGE DECK GROOVING SY 317 \$25.00 5 7.925.00 Londerd 01995 COVER DEPT HSURVEY SY 317 \$15.00 \$47.05 Londerd 21711 CORROSION REGISTANT REINS TEEL CL. I LB 8 8100 \$3.52 \$ 7.0400.00 Londerd 2022 RALING KANEAS CORRAL 32 "WOURB LF 190 \$451.87 \$ 86.865.30 Londerd 2023 SINDEGE SUPERSTRUCTURE (LCP) PROFILE BEARING) EA 14 \$2.500.00 \$ 33.000.00 Londerd 2023 SINDEGE SUPERSTRUCTURE (TLM PROFILE BEARING) EA 14 \$2.500.00 \$ 33.000.00 Londerd 2023 SINDEGE SUPERSTRUCTURE (TLM PROFILE BEARING) EA 14 \$2.500.00 \$ 30.000.00 Londerd 2023 SINDEGE SUPERSTRUCTURE (TLM PROFILE BEARING) EA 14 \$2.500.00 \$ <td>60411 CONC. CLASS A4 MOD. LIGHTWEIGHT LOW SHRINKAGE</td> <td>CY</td> <td>110</td> <td>\$1 400 00</td> <td>\$</td> <td></td> <td>Locked</td> <td>-</td> <td>· · ·</td> <td></td> | 60411 CONC. CLASS A4 MOD. LIGHTWEIGHT LOW SHRINKAGE | CY | 110 | \$1 400 00 | \$ | | Locked | - | · · · | |
| 020092 COURT DEPTH SURVEY SY 317 \$15.00 \$4 4755.00 Lowes 020092 COURT DEPTH SURVEY SY 317 \$15.00 \$2514.09.99 Lowes Regression Model: Non-Linear 020092 RALING KARSAS CORRAL 32 WOURS LF 1900 \$351.0 \$2514.09.99 Lowes Pricing Model Date: 11.220.20 Current 020092 RALING KARSAS CORRAL 32 WOURS LF 1900 \$351.00 \$350.00 Based Status Pricing Model Date: 11.220.20 Current 02003 REINDER SUPERSTRUCTURE (ICMP PROFILE ELARING) LS 1 \$30.000.00 Sastistic Linear Sastistic Sasti | | | | | | | | τοται | \$ 2 301 267 | 60 |
| 8111 CORROSION RESISTANT RUM-STELL CL1 LB 20000 \$3.52 \$ 70.400.00 Loaded Regression Model: Non-Linear 8121 STR STPATT EGROPE ARSIN ADD 65, Solve LS #110 \$3.10 \$ 25.40.00 Loaded Divin:: Statistant 2023 ALINGKANISAS CORRAL 22' WURB LF 190 \$451.87 \$ 85.855.30 Loaded Pricing Model Date: 11/2/2020 Current 2023 ALINGKANISAS CORRAL 22' WURB LS 1 \$30,000.00 \$ 35,000.00 Loaded Pricing Model Date: 11/2/2020 Current 2023 ALINGKANISAS CORRAL 22' WURB LF 100 \$22,000.00 \$ 35,000.00 Loaded F 11/2/2020 Current 2023 IN SENICOE SUPERSTRUCTURE (PEMP SHORING) LS 1 \$30,000.00 \$ 37,000.00 Loaded F 100 \$22,000 \$30,000.00 Loaded F 100 \$22,000 \$30,000.00 Loaded \$40,000.00 Loaded 10000.00 E 10000.00 E 10000.00 E 10000.00 E 10000.00 E 10000.00 E 10000 | | | | | - | | | TOTAL | φ 2,001,201. | |
| Bill 2 Bill 00 \$3.10 \$ 251.409.99 Losed District: Staurion 2023 RULENKASSCORALUZE WOURS LF 190 \$45.17 \$ 85.65.30 Used District: Staurion 2023 NULENKASSCORALUZE WOURS SY 15 \$17.734 \$ 2660.10 Used District: Staurion 2233 NS BRIOGE SUPERSTRUCTURE (DW PROFLE BEARING) LS 1 350.000.00 \$ 35.000.00 Losed 112/2020 Current 2233 NS BRIOGE SUPERSTRUCTURE (DW PROFLE BEARING) LS 1 350.000.00 \$ 35.000.00 Losed 112/2020 Current 3401 STUCTURE EXAMINON CY 142.0 \$50.00.00 \$ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Regression Model</td> <td>Non-Linear</td> <td></td> | | | | | | | | Regression Model | Non-Linear | |
| E20202 RALLING-KANSAS OCRAL 32 WUCURB LF 190 \$451.87 85.855.30 Locked Pricing Model Date: 11/2/2020 Current 20232 SA IS REPOCE SUPERSTRUCTURE (CMV PROFILE ERARNO) EA 14 \$25.500.00 \$35.000.00 Locked 11/2/2020 Current 2023 SA IS REPOCE SUPERSTRUCTURE (CMV PROFILE ERARNO) EA 1 \$20.000.00 \$35.000.00 Locked 11/2/2020 Current 2023 SI IN COLDE SUPERSTRUCTURE (CMV PROFILE ERARNO) EA 1 \$20.000.00 \$35.000.00 Locked 11/2/2020 Current 2023 SI INCOLDE SUPERSTRUCTURE (CMV PROFILE ERARNO) EA 1 \$20.000.00 S45.000.00 Locked 11/2/2020 Current 2023 SI INCOLDE SUPERSTRUCTURE (CMV PROFILE ERARNO) EX 1 \$20.000.00 Locked 11/2/2020 Current 2023 SI INCOLDE SUPERSTRUCTURE (CMV PROFILE ERARNO) EX 1 \$20.000.00 Locked 1/2/2020 Current 1/2/2020 Current 1/2/2020 Locked 1/2/2020 Locked 1/2/2020 S20.000.00 Locked 1/2/2020 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> | | | | | | | | - | | |
| 22224 NS BRIDGE SUPERSTRUCTURE (ICW PROFILE EEARING) EA 14 52:500.00 \$ 35:000.00 Locked 22236 NS BRODGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$30:000.00 \$ 35:000.00 Locked 22237 NS BRODGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$30:000.00 \$ 35:000.00 Locked 22328 NS BRODGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$30:000.00 \$ 35:000.00 Locked 22103 SELECT BACKELL (ABUTKENT ZONE) TON 2000 \$ 35:200.00 \$ 4:74:4.0 Locked 2023 GPC INFORMANE* LF 100 \$ 25:00.00 \$ 25:00.00 Locked 25:00 SISIS CV 350 \$ 4:74:4.0 Locked 25:00 FILE CV 25 \$ 5:200.00 Locked 25:00 SISIS CV 350 \$ 4:00:00.00 Locked 25:00 SISIS CONCRETE CV 25 \$ \$ 4:00:00.00 Locked 27:00 NSIGNA REM EXISISTR: LS 1 | | | | | | | | | | Current |
| B3233 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$2500.000 Lobert B2233 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$50,000.00 \$30,000.00 Lobert B2015 BELCT BACKFLL (ABUTHENT ZONE) TON 2500 \$350.00 \$71,000.00 Lobert B2015 BELCT BACKFLL (ABUTHENT ZONE) TON 2500 \$350.00 \$37,500.00 Lobert B2015 BELCT BACKFLL (ABUTHENT ZONE) TON 2500 \$35,000.00 \$315,000.00 Lobert B2015 BELCT BACKFLL (ABUTHENT ZONE) TON 2500 \$315,000.00 Lobert B2015 BELCT BACKFLL (ABUTHENT ZONE) CY 25 \$500.00 \$12,500.00 Lobert B2015 BELCT BACKFL LB 20000.00 \$10,000.00 Lobert Lobert B2015 BELCT BACKFL (ABUTHENT ZONE) LS 1 \$10,000.00 Lobert B10,000.00 Lobert B2015 BELCH BAUNES (STEM) LS 1 \$10,000.00 Lobert B10,000.00 Lobert B10,000.00 Lobert B2010 SENA WORK | | | | | - | - | | Thenny would bate. | 11/2/2020 | Current |
| 22235 NS BRIDGE SUPERSTRUCTURE (TEMP SHORING) LS 1 \$330,000,00 Locked 20211 STEUTURE EXCAVATION CY 1420 \$50,000,05 \$77,000,00 Locked 20202 GEOCOMPOSITE WALL DRAIN SY 76 \$62,40 \$47,42,40 Locked 20202 GEOCOMPOSITE WALL DRAIN SY 76 \$62,40 \$47,42,40 Locked 20202 GEOCOMPOSITE WALL DRAIN SY 76 \$62,40 \$47,42,40 Locked 20202 GEOCOMPOSITE WALL DRAIN SY 76 \$62,00 \$2,500,00 Locked 20202 GEOCOMPOSITE WALL DRAIN LF 100 \$2,500,00 Locked Locked 5513 CY 350 \$90,000 Locked Locked Locked 10,000,00 Locked 52020 RENF STEL LB 200,000,00 \$40,000,00 Locked Locked 10,000,00 Lo | | | | | | | | | | |
| BAD11 STRUCTURE EXCAVATION CY 1420 \$50.00 \$ 71.000.00 Locked BAD13 SELECT BACKELL (ABUNKINT ZONE) SAD32 GEOCOMPOSITE WALL DRAIN SY 76 \$52.40 \$ 4742.40 Locked BAD33 GEOCOMPOSITE WALL DRAIN SY 76 \$52.40 \$ 4742.40 Locked S2005 PPE INDERDRAIN 6' LF 100 \$25.00 \$ 12,500.00 Locked B3005 REINE STEEL LB 20000 \$ 2.00 \$ 12,500.00 Locked B3015 TEMP. CAUSEWAY LS 1 \$10,000.00 \$ 10,000.00 Locked B3029 RY RIPRAP CLI3* TON 80 \$107.11 \$ 8,568.00 Locked B3030 REINE, SYEM LS 1 \$15,000.00 \$ 15,000.00 Locked B3030 SUBM A REM. EXIST. STR. LS 1 \$16,626.65 \$ 16,626.55 Locked B3032 NS MATERIAL DISPOSAL LS 1 \$16,626.65 \$ 16,626.55 Locked Total Number of Bid items = 28 Total Number of Bid items = 28 | <u></u> | | 14 | | - | | | | | |
| Select BACKFUL (ABUTMENT ZONE) TON 2500 \$35,000 Locked S032 GEOCOMPOSITE VALLO DRAIN 6' LF 100 \$25,000 \$25,000 Locked S032 GEOCOMCRETE CLASS A3 CY 330 \$500,000 \$315,000,000 Locked S032 BCOCOMCRETE CLASS A3 CY 330 \$500,000 \$315,000,000 Locked S032 BCOCOMCRETE CLASS A3 CY 255 \$500,000 \$312,500,000 Locked S032 BCOCOMCRETE CLASS A3 CY 25 \$500,000 \$40,000,000 Locked S032 BCR NERVACUSEWAY LS 1 \$10,000,000 \$40,000,000 Locked S032 BCR NERMAR PCLI I33" TON 80 \$107,110 \$8,568,000 Locked S7200 DECK DRAINGE SYSTEM LS 1 \$16,626,555 \$16,626,555 Locked S7200 DYS DISMA REM_EXIST.STR. LS 1 \$6,509,76 Locked Locked S7202 DYS DISMA REM_EXIST.STR. LS 1 \$6,509,76 Locked Locked S822 BR WIMPERAL DISPOSAL LS 1 \$6,509,76 S6,509,76 Locked Locked <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | 1 | | | | | | | |
| 26032 GEOCOMPOSITE WALL DRAIN SY 76 \$\$2.40 \$ 4,742.40 Looked 26035 FIPE INDERDRAIN 6' LF 100 \$\$25.00 \$ 2.50.00 Looked 25015 BOOK DRETE CLASS A3 CY 25 \$\$50.00 \$ 12,500.00 Looked 25015 BK CONCRETE CY 25 \$\$50.00 \$ 12,500.00 Looked 35015 REM. STELL LB 2000 \$\$2.00 \$ 40,000.00 Looked 36115 TEMP. CAUSEWAY LS 1 \$10,000.00 \$ 40,000.00 Looked 36220 ORY RIPRAP CLI 38' TON 80 \$107.10 \$ 8,568.00 Looked 36230 DRX RIM EXIST. STR. LS 1 \$16,000.00 \$ 60,000.00 Looked 382420 ORK ARMAGE SYSTEM LS 1 \$16,626.55 \$ 16,626.55 Looked 382420 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 \$ 382420 NS MATERIAL DISPOSAL < | | | | | | | | | | |
| 26325 PPE UNDERDRANN 6" LF 100 \$25.00 \$ 2.500.00 Locked 52013 CONCRETE CY 25 \$500.00 \$ 12,500.00 Locked 52020 NS CONCRETE CY 25 \$500.00 \$ 12,500.00 Locked 52020 REINF. STEEL LB 20000 \$\$ 10,000.00 Locked 56120 COFFERDAM EA 2 \$20,000.00 \$ 10,000.00 Locked 56120 COFFERDAM EA 2 \$20,000.00 \$ 10,000.00 Locked 56230 DRY RIPRAP CLII 38" TON 80 \$107.10 \$ 8,568.00 Locked 57200 No DISMA REM. EXIST. STR. LS 1 \$6,509.76 \$ 6,509.76 Locked 58247 N SMATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 Locked 5023 Dev More Fold items = 28 V S 10,000.00 Locked 100% 100% 40% | | | | | | | | | | |
| 55013 COVRETTE CLASS A3 CY 350 \$300,000 \$ 315,000,00 Locked 55029 NS CONCRETTE CY 25 \$500,000 \$ 40,000,00 Locked 56115 TEMP. CAUSEWAY LS 1 \$110,000,00 \$ 40,000,00 Locked 56202 OPY. RIP.RAP.CLI.38' TON 80 \$107,10 \$ 8,568,00 Locked 56203 NS NIMARE SYSTEM LS 1 \$15,000,00 Locked 57200 NS DISM.& REM. EXIST. STR. LS 1 \$15,000,00 S 40,000,00 57200 NS DISM.& REM. EXIST. STR. LS 1 \$16,626,55 S 16,626,55 Locked 57200 NS MATERIAL DISPOSAL LS 1 \$16,626,55 Locked 16,509,76 Locked 58429 NS MATERIAL DISPOSAL LS 1 \$6,509,76 Locked 100% Asphalt Type Distribution 95% - - - - - - - - 00% - - - - | | | | | | | | | | |
| 55095 NS CONCRETE CY 25 \$500.00 \$12,500.00 Locked 55200 REINF. STEEL LB 20000 \$2,00 \$40,000.00 Locked 56125 COFFERDAM EA 2 \$22,000.00 \$40,000.00 Locked 56200 PENP. STEEL LS 1 \$10,000.00 \$500.00 Locked 56210 COFFERDAM EA 2 \$22,000.00 \$40,000.00 Locked 56220 DRX PRAP CLI 38* TON 80 \$107.10 \$8,568.00 Locked 57200 NS DISM.& REM. EXIST. STR. LS 1 \$16,626.55 \$6,600.00 Locked 582492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$6,509.76 Locked Gover and thems = 28 | | | | | | - | | | | |
| 55200 REINF, STEEL LB 20000 \$ \$ 40,000.00 Locked 66115 TEMP. CAUSEWAY LS 1 \$10,000.00 \$ \$ 10,000.00 Locked 66120 COFFERDAM EA 2 \$20,000.00 \$ 40,000.00 Locked 56220 DEY RIPRAP CLII 38" TON 80 \$107.10 \$ 8,568.00 Locked 57200 DS DAM.A REM. EXST. STR. LS 1 \$15,000.00 \$ 60,000.00 Locked 582402 DS MA.R REM. EXST. STR. LS 1 \$16,626.55 \$ 16,626.55 Locked 582492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 Locked | | | | | | - | | | | |
| B6115 TEMP, CAUSEWAY LS 1 \$10,000.00 \$ 10,000.00 Locked B6120 COFFERDAM EA 2 \$20,000.00 \$ 40,000.00 Locked B6120 COFFERDAM LS 1 \$10,000.00 \$ 8,568.00 Locked B6230 DRY RIPRAP CLII 38" TON 80 \$10,710 \$ 8,568.00 Locked B6240 DECK DRAINAGE SYSTEM LS 1 \$15,000.00 \$ 15,000.00 Locked B62470 NS RNA REME.XENT.STR. LS 1 \$16,626.55 \$ Locked B6242 NS MATERIAL DISPOSAL LS 1 \$16,626.55 Locked \$ B6429 NS MATERIAL DISPOSAL LS 1 \$6,509.76 Locked \$ 100% Asphalt Type Distribution \$ 1 \$ \$ \$ 100% - - - - - - - 100% - - - - - - - 100% - - - - - - - - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> | | | | | | - | | | | |
| 56120 COFFERDAM EA 2 \$20,000.00 \$ 40,000.00 Locked 56232 DRY RIPAP CLII 38' TON 80 \$107.10 \$ 8,568.00 Locked 57400 DECK DRAINAGE SYSTEM LS 1 \$15,000.00 \$ 60,000.00 Locked 57400 DS DISM& REM. EXIST. STR. LS 1 \$16,626.55 \$ 16,626.55 Locked 58476 NS ENV.8 WORKER PROTECT. LS 1 \$16,626.55 \$ 16,626.55 Locked 58492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 Locked Total Number of Bid items = 28 | | | | | | | | | | |
| DECISION Dry RIPRAP CLII 33" TON 80 \$107.10 \$ 8,568.00 Locked 67400 DECK DRAINAGE SYSTEM LS 1 \$15,000.00 \$ 600.00.00 Locked 27900 NS DIWA REME KSTS STR. LS 1 \$15,000.00 \$ 600.00.00 Locked 27900 NS DIWA REME KSTS STR. LS 1 \$16,626.55 16,626.55 Locked 28942 NS MATERIAL DISPOSAL LS 1 \$16,626.55 Locked B8492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 Locked Total Number of Bid items = 28 | | | | | | - | | 0% | Estimate Bre | акаомп |
| EXAMPLE I ST 1 St 15,000.00 \$ I St 0,000.00 Locked 67:400 DEOK DRAINAGE SYSTEM LS 1 \$15,000.00 \$ 10,000 Locked 67:400 NS DISM & REM. EXIST. STR. LS 1 \$56,000.00 \$ 60,000.00 Locked 8:8476 NS ENV& WORKER PROTECT. LS 1 \$16,626.55 Locked 6,509.76 Locked 8:8476 NS ENV& WORKER PROTECT. LS 1 \$16,626.55 Locked 95% Total Number of Bid items = 28 | | | | | | | | 070 | 0% 0% | |
| ST900 NS DISM.& REM. EXIST. STR. LS 1 \$60,000.00 \$ 60,000.00 Locked 88476 NS ENV.& WORKER PROTECT. LS 1 \$16,626.55 \$ 16,526.55 Locked 58492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 Locked Total Number of Bid items = 28 1 \$6,509.76 \$ 6,509.76 Locked 95% | | | 80 | | | | | | 4% | |
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| BB492 NS MATERIAL DISPOSAL LS 1 \$6,509.76 \$ 6,509.76 Locked Total Number of Bid items = 28 95% 95% 100% Asphalt Type Distribution 100% 60% - - - - 40% - - - - - | | | 1 | | | - | | | | |
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| 100% - 80% - 60% - 40% - | Total Number of Bid items = 28 | | | | | | | 95% | | |
| 60% | | | | | | | | 100% | Asphalt Type E | istributior |
| 60% | | | | | | | | | - | |
| 40% | | | | | | | | 80% | - | |
| 40% | | | | | | | | 60% | - | |
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| | | | | | | | | 40% | | |
| | | | | | | | | 20% | | |

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000 + 5% OF (THE SUM OF BID ITEMS - \$1 MILLION)

57,338.90

- 10.0% OF SUBTOTAL
- 20.0% OF SUBTOTAL

Enter % based on Proj. specific conditions & requirements

Network Version

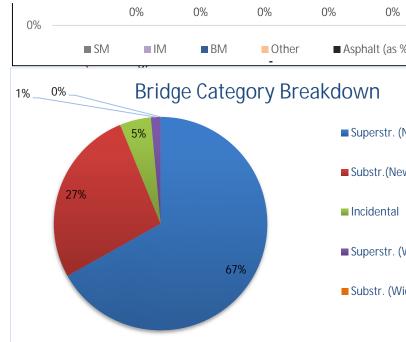
nt To 10/2020 Letting

n (no PE or CEI)

- Grading& Pavement
- Utilities
- GR&Traffic
- Landscaping
- Signs&Signals
- Bridge
- Incidentals
- E&S

on

PROJECT COST ESTIMATE



8/11/2021 9:28 AM

■ Asphalt (as % of Proj Total)

- Superstr. (New)
- Substr.(New)
- Incidental
- Superstr. (Widening)
- Substr. (Widening)

| Note of the first sector in the fir | ITEM | ITEM DESCRIPTION | UNITS | | QUANT | | | |] | | AMOUNT |
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| No. 000100 No. 000 | 400 | | 014 | <u>Rt. 159</u> | | 0 | <u>0</u> | Temp | | | |
| Def Conditioner (1 - 10) Def Conditioner (2 - 10) <thdef (2="" -="" 10)<="" conditioner="" th=""> <thdef condi<="" td=""><td></td><td></td><td>CY</td><td></td><td></td><td></td><td></td><td></td><td>9600.00</td><td></td><td></td></thdef></thdef> | | | CY | | | | | | 9600.00 | | |
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| 1000 PCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | 13286 | Guardrail Terminal Gr-MGS2 | EA | 4.00 | | | | | | | • |
| | | | EA | | | | | | 4.00 | | |
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| 1000 PP 0 3000 600 0 75 100 | 580 | UNDERDRAIN UD-1 | LF | | | 0.00 | 0.00 | Temp | | 21.24 | \$ 743.40 |
| 2000 CONNECTION CONCE 01 33000 0 3000 0 3000 < | 1060 | 6" PIPE | LF | 30.00 | 45.00 | | | | 75.00 | 100.00 | \$ 7,500.00 |
| 2410 OPULINA CONV Ø 3000 Q 3000 ZOD Q <td></td> <td>STORM SEWER PIPE 15"</td> <td></td> <td>35.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | STORM SEWER PIPE 15" | | 35.00 | | | | | | | |
| 2113 Prim Laking Mark A | | | | | | | | | | | |
| Image: Product Inter Mathematical Inter Mathmatical Inter Mathematical Inter Mathematical Inter Mathematical I | 24152 | TYPE III BARRICADE 8' | EA | | 4.00 | | | | 4.00 | 450.00 | \$ 1,800.00 |
| SAU2 I 24000 24600 I 500 m0 5 | | | HR | | | | | | 240.00 | 30.00 | \$ 7,200.00 |
| State Reveneended 1 10000000 10000000 10000000 | 54022 | TY A PAVEMENT LINE MARKING 6" | LE | 2400.00 | 2660.00 | | | | | | • |
| Image: second | | | LF | 2400.00 | | | | | | | |
| No. Config EAX.Damage I | | | EA | 4.00 | | | | | 4.00 | 40000.00 | \$ 160,000.00 |
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| Mobilization | | | | | | | | | | Mobilization | \$ 103,840.59 \$ 87,112.32 |
| \$ 1,229,3 | | | | | | | | | | Mobilization | |
| | | | | | | | | | | | \$ 1,229,358.76 |

| | | | | | | PAV | EMEN | Γ SU№ | íMAR | Y | | | |
|------------------------------------|--------------|-------------------------------------|------------------------------------|------------------------------------|--------------------------------------|---------|---------------------------|-------|-------------|---|--|------|--|
| Project No. 0623-034- 882, M501 | Sheet No. | ASPHALT CONCRETE TY. BM-25.0A | ASPHALT CONCRETE TY. SM-9.5A | FLEXIBLE PAVE.PLANIN G 0"-2" | AGGR. BASE MATL. TY. I NO. 21B | | DEMOLITION OF PAVEMENT | | | | | | |
| | | TON | TON | SY | TON | LF | SY | | | | | | |
| Rt. 159 | | 146.67 | 385.00 | 1778.00 | 222.22 | 1556.00 | 140.00 | | | | | | |
| Rt. 159 Diversion | | 244.44 | 195.56 | | 395.06 | | 511.11 | | | | | | |
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| Temp | | | | | | | | | | | | | |
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| Total | | 391.11 | 580.56 | 1778.00 | 617.28 | 1556.00 | 651.11 | | | | | | |

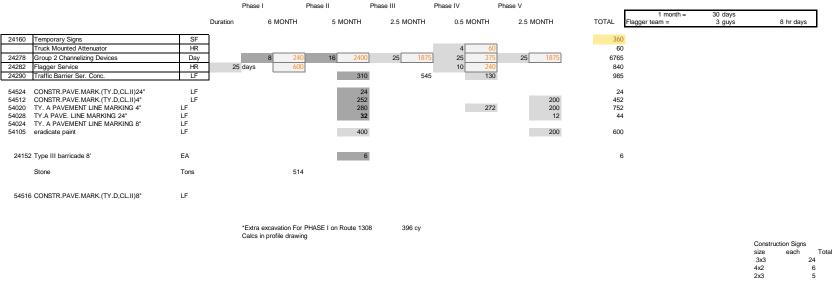
P Denotes Item(s) to be paid for on the basis of plan quantities in accordance with current road and bridge specifications

X Denotes Item(s) to be included in the price bid of other items

S Denotes Subtotal, add to other subtotals of the same item for total Quantity

| | | | | | | | | ľ | VCIDEN | TAL SU | JMMAI | RY | | | | | | |
|------------------------------|--------------|---------|----------------------|-------------------------|--|-----------------------------------|--|---|--------|--------|-------|----|------|--|------|--|------|----------|
| Project No. | Sheet No. | | BORROW EXCAVATION | CONSTRUCTIO N SURVEY | | Guardrail Terminal Gr- MGS2 | FIXED OBJECT ATTACH. GR- FOA-1 TY. I | | | | | | | | | | | |
| Rt. 159 | | CY | CY | LS | | EA | EA | | | | | | | | | | | <u> </u> |
| Rt. 159 Rt. 159 Diversion | - | 1318.00 | 9600.00 | 1.00 | | 4.00 | 4.00 | | | | | | | | | | | |
| Rt. 139 Diversion | | 1318.00 | 9000.00 | | | | | | | | | | | | | | | |
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| Total | 1 | 1318.00 | 9600.00 | 1.00 | | 4.00 | 4.00 | | | | | | | | | | | |
| Iotal | | 1318.00 | 9600.00 | 1.00 | | 4.00 | 4.00 | | | | | | | | | | | · |

| | | | | | | | TEM | PORA | ARY T | RAFF. | IC CON | TROL | AND D | RAIN | AGE | SUM | MARY | Z | | | | |
|-------------------|-------|--------------------|----------|---------------------|------------------------|------------------------|--------------------------|---------|-------|----------------------------------|-----------------------------|----------------------------|-------|------|---------------------------------|-----|------|---|--|--|--|--|
| Project No. | Sheet | UNDERDRAIN UD-1 | 6" PIPE | STORM SEWER PIPE | GROUP 2 CHANNELIZIN | CONSTRUCTIO N SIGNS | TYPE III BARRICADE 8' | FLAGGER | | TY. A PAVEMENT LINE | ERAD. OF EXIST.PAVE.MARK | Temporary Signalization | | | Misc Seeding, E&SC,Draina | | | | | | | |
| Rt. 159 | NU. | LF 20 | LF 30 | 15" LF 35 | G DEVICES DAY | SF | EA | HR | | LINE MARKING 6" LF 2400 | ING LF | EA | | | ge LS | | | | | | | |
| Rt. 159 Diversion | | 15 | 45 | 25 | 3200 | 320 | 4 | 240 | | 2660 | 1860 | | | | | | | | | | | |
| Temp | | | | | | | | | | | | | | | | | | | | | | |
| | _ | | | | | | | | | | | | | | | | | | | | | |
| Total | | 35 | 75 | 60 | 3200 | 320 | 4 | 240 | | 5060 | 1860 | 4 | | | 1 | | | | | | | |



STAGE 1

| 24160 | Temporary Signs | SF |
|-------|------------------------------|-----|
| | Truck Mounted Attenuator | HR |
| 24278 | Group 2 Channelizing Devices | Day |
| 24282 | Flagger Service | HR |
| 24290 | Traffic Barrier Ser, Conc. | LF |

stage 2

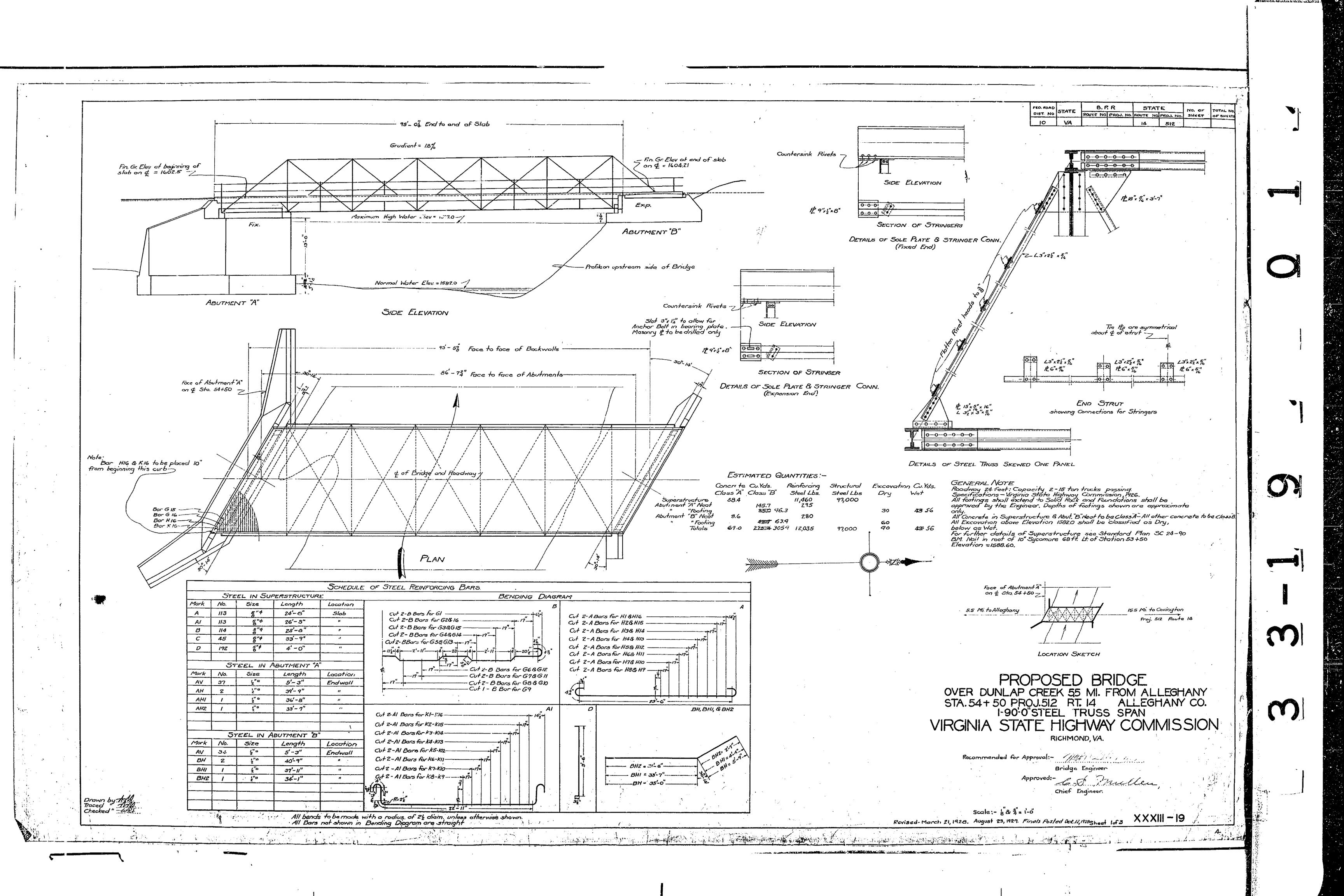
| VDOT | Project C | ost Estim | ating S | System |
|---|---|-------------------|----------------------------|--------------|
| V D D I | SUMMARY | PAGE | | |
| | DISTRICT | S ⁻ | FAUNTON | |
| | PROJECT NUMBER | PE | 18968442 | |
| CONSTR | RUCTION END YEAR | FY2020 | UPC | 111098 |
| | AD YEAR | FY2020 | RATE OF INFLATION TO AD | N/A |
| | ESTIMATE YEAR | FY2020 | INFLATION RATE | N/A |
| | Date of previous estimate | 12/05/19 | | |
| PROJECT MA | NAGER / DESIGNER | Eul | ogio.Javie | r |
| Preliminary | Engineering Estimate: | PCE | S | |
| (| Construction Estimate: | PCE | S | |
| l i i i i i i i i i i i i i i i i i i i | Right-of-Way Estimate: | PCE | S | |
| | Utilities Estimate: | PCE | S | |
| | DATE | 8/11/2021 | | |
| | G DATA WILL BE PROVIDED UPON WHICH IS ACCESSED BY SELECTIN | | | |
| | Bridge PE ESTIMATE | \$0 | | |
| | Bridge CN ESTIMATE | \$0 | | |
| | Bridge RW ESTIMATE | \$0 | | |
| PRELIMINARY ENGINEERING | ESTIMATE (excluding Bridge PE) | \$0 | | |
| CONSTRUCTION | ESTIMATE (excluding Bridge CN) | \$0 | | |
| RIGHT-OF-WAY & UTILITIES | ESTIMATE(excluding Bridge RW) | \$236,9 | 967 | |
| TOTAL PROJECT ESTIMA | TE (excluding Bridge estimate) | \$236,9 | 067 | |
| C Virginia Department of Transporta Revised 06/05/19 | ation 2005 | Estimate Class: E | Blank | Version 9.00 |

| | | | | UPC: 111098 |
|---------------------|---|---|---|------------------|
| | | ect Cost Estimating GHT-OF-WAY EST | | VDOT |
| | Project No.: | | PE18968442 | |
| | VDOT Construction District : | | STAUNTON | # 8 |
| | Select Project Area Real Estate Costs : | | | _ |
| | Define Project Land Use Characteristics : | Agricul | tural : | _ |
| | | Reside | | |
| | Instructions: Please fill-in all applicable White Boxes or make a choice from the Drop-down Lists | Indus Comme | strial : rcial : | |
| | | | 100% | _ |
| | Enter the Approximate Number of Parcels on the Project : | | | |
| 1 | LAND VALUE | | | |
| 7 | Total Right-of-Way Project Length (ML + Connections) Average width of Existing RW | ft | Computed RW Cos Enter Right-of-Way Estimator's Right- | |
| f-Wa | Average width of Proposed RW | ft | Enter Right-of-way Estimator's Right- | per sq ft : |
| Prop. Right-of-Way | Total area of all additional Prop. Right-of-Way | sf | Enter total sq ft (override | |
| p. Ri | Approx. % of Prop. CL wi | thin ft | 0 sq ft = | 0.000 Ac. |
| Pro | Approx. % of Prop. CL betw | een ft | & ft of Exist. CL | |
| | Approx. % of Prop. CL greater t | | from Exist. CL | |
| ise. | Average Width of parallel Temporary Easements Left Total Length of parallel Temporary Easements Left | | Comp. Temp. Ease. (Enter Right-of-Way Estimator's Temp | |
| Temp. Ease. | Average Width of parallel Temporary Easements Right | ft | | per sq ft : |
| Tem | Total Length of parallel Temporary Easements Right | ft | Enter total sq ft (override 16,000 sq ft = | |
| | Total Area of All Replacement Utility Easements | sf | 16,000 sq ft = Comp. Utility Ease. (| |
| Perm. & Util. Ease. | AND Select % of RW Cost for Util. Ease. | 51 | RW Est's. Utility Ease. Co | |
| Util. I | This Day March Da Franch | | 15,000 sq ft = | 0.344 Ac. |
| n. & | This Box Must Be Empty > | ea | Comp. Perm. Ease. C RW Est's. Perm. Ease. Co | |
| Peri | Total area of All Permanent Easements | sf | 18,000 sq ft = | 0.413 Ac. |
| | COST OF LAND (Item a | # 1) \$5,967 | | |
| 2 | BUILDING VALUE | | r, occupied Residential Dwellings | |
| | | in the Project Area, enter the Nu A. Low Cost Residential Dwelling | | Computed: \$0 |
| | | B. Moderately Low Cost Dwelling | | \$0 \$0 |
| | | C. Average Cost Residential Dwo D. Moderately High Cost Dwellin | | \$0 \$0 |
| | | E. High Cost Residential Dwellin | | \$0 \$0 |
| | | | Total Residential Dwelling Cos | |
| | | | Total Residential Dwelling Co | |
| | | | NDUSTRIAL BUILDINGS to be ta le. Use User Defined Costs Be | |
| | | | ercial / Industrial Buildings Cos | |
| 3 | B. OTHER IMPROVEMENTS | | ed cost of ALL OTHER IMPROVEMENT | |
| | | | Total Other Improvements Cos Total Other Improvements Cos | |
| 4 | . DAMAGES | Lotimator o | | |
| | | els Affected by Damages to | Remainder : | |
| | Anticipated Relative | Cost Impact of Damages to | Remainder : | |
| | | pproximate Number of Parce outed Cost of Damages to I | | 3 \$7,040 |
| | | Total Cost of Damages to I | | \$7,500 |
| | TOTAL ACQUISITIONS (Items # 1 | - 4) \$21,967 | | |
| _ | | | | |

| 5. ADMINISTRATIVE SETTLEMENTS | |
|---|------------------|
| Anticipated % of Parcels Affected by Administrative Settlements : | 60% |
| Anticipated Relative Cost Impact of Administrative Settlements : | Low |
| Approximate Number of Parcels Affected : | 3 |
| Computed Cost of Administrative Settlements : | \$11,734 |
| Estimator's Total Cost of Administrative Settlements : | \$12,500 |
| 6. CONDEMNATION INCREASES | |
| Anticipated % of Parcels Affected by Condemnation Increases : | 20% |
| Anticipated Relative Cost Impact of Condemnation Increases : | Moderate |
| Approximate Number of Parcels Affected : | 1 |
| Computed Cost of Condemnation Increases : | \$21,121 |
| Estimator's Total Cost of Condemnation Increases : | \$20,000 |
| ADMINISTRATIVE COSTS & INCIDENTAL EXPENSES | |
| Anticipated Relative Cost Impact of Admin. Costs & Incidental Expenses : | Very High |
| Computed Administrative Costs & Incidental Expenses : | \$19 ,946 |
| Estimator's Total Administrative Costs & Incidental Expenses : | \$32,500 |
| 8. DEMOLITION CONTRACTS | |
| Anticipated Relative Cost Impact of Demolition Contracts : | |
| Computed Costs of Demolition Contracts : | \$O |
| Estimator's Total Cost of Demolition Contracts : | \$0 |
| . HAZARDOUS MATERIALS REMOVAL | |
| Anticipated Number of Demolished Buildings Requiring Asbestos Removal : | |
| Anticipated Relative Cost of Asbestos Removal from Demolished Buildings : | |
| Anticipated Number of Other Hazardous Materials Removal Sites : | |
| Anticipated Relative Cost Impact of Other Hazardous Materials Removal : | |
| Computed Cost of Hazardous Materials Removal : | \$0 |
| Estimator's Total Costs of Hazardous Materials Removal : | \$0 |
| 10. PROPERTY MANAGEMENT | |
| Anticipated Relative Cost Impact of Property Management : | |
| Computed Costs of Property Management : | \$O |
| Estimator's Total Cost of Property Management : | \$0 |
| TOTAL OTHER ITEMS (Items # 5 - 10) \$65,000 | |

| 11. RELOCATION ASSISTANCE | |
|--|---|
| Residential Relocation Costs: | |
| Anticipated Relative Cost Impact of Reside | lential Relocation Expenses : |
| Computed Res | sidential Relocation Costs : \$0 |
| Estimator's Total Residen | tial Relocation Costs : \$0 |
| Commercial Relocation Costs: | |
| Note: No Computed Costs Available. Use | User Defined Costs Below: |
| Estimator's Total Comm/Ind | lust Relocation Costs : \$0 |
| Total Displacements: 0 | Farms: |
| Families: | Non-Profit: |
| Businesses: | Personal Property Only: |
| TOTAL RELOCATION ASSISTANCE (Item # 11) | \$0 |

| 12. YEAR OF RIGHT-OF-WAY AUTHORIZATIO | N FY2020 |) | | |
|--|--|--|--------------|---------------|
| 13. MANUAL INFLATION RATE | | | | |
| | | Today's Cost | Factor | Inflated Cost |
| SUB-TOTAL RIGHT-OF-WAY COSTS | | \$86,967 | N/A | \$86,967 |
| UTILITY COSTS TO RIGHT-OF-WAY PROJECT * | (PCES) | \$150,000 | N/A | \$150,000 |
| | | | | |
| TOTAL RIGHT-OF-WAY COSTS | (PCES) | \$236,967 | | \$236,967 |
| * Utility Data display requires completion of U | Jtilities Estimate Worksheet | (tab below) | | |
| COMMENTS: | | | | |
| | | | | |
| Proposed acquisition areas calculated and Assumptions: No Total Takes; No well / septic re | | easonable acces | • | |
| Assumptions: No Total Takes; No well / septic | impacts; All parcels to retain r ecent attorney involvement. [D | easonable acces | • | |
| Assumptions: No Total Takes; No well / septic | impacts; All parcels to retain r ecent attorney involvement. [D | easonable acces DWL] | • | |
| Assumptions: No Total Takes; No well / septic | impacts; All parcels to retain r ecent attorney involvement. [D Right-of-Wa | easonable acces DWL] ay Estimate Date : [pproved Plans ? : [| • | |
| Assumptions: No Total Takes; No well / septic | impacts; All parcels to retain r ecent attorney involvement. [D Right-of-Wa Based on Approved / Una | easonable acces DWL] ay Estimate Date : [pproved Plans ? : [| ss; Condemna | |



Note the full Bridge Safety Inspection Report was included in the application. Due to CII, this report has not been included in this public sample application.