Initial Baseline Schedule Narrative

► 95 Express Lanes Opitz Boulevard Project Preliminary Baseline Schedule Narrative

The Team has reviewed in detail the 95 Express Lanes Opitz Boulevard Project and schedule requirements and has developed a Preliminary Baseline Schedule outlining our plan to successfully manage all phases of the work. This schedule has been optimized to deliver the Project on time while meeting the requirements of the RFP and Technical Requirements, minimizing impacts to road users and stakeholders, protecting the environment, avoiding utilities, and ensuring the safety of workers and the public. A summary of the Contract and Schedule Milestones are shown in Table 01.

Table	01.	Contract an	d Sched	ule N	Milestones
Table	\// .	CAMBIDACE AB	α	uic i	villeationica

Contract and Schedule Milestones	Date
Notice to Proceed	August 15, 2022
Start Stage 1 Work on Slip Ramp / Opitz Blvd Bridge	November 15, 2022
Start TMS Level A Testing – Slip Ramp	June 19, 2023
Start TMS Level B Testing – Slip Ramp	August 1, 2023
Open Pedestrian Facility on Opitz Blvd	July 14, 2023
Open New Slip Ramp to Traffic	December 5, 2023
Start TMS Level A Testing – Opitz Reversible Ramp	February 1, 2024
Start TMS Level B Testing – Opitz Reversible Ramp	March 14, 2024
Service Commencement Date	July 15, 2024
Final Completion	October 13, 2024

Work Breakdown Structure

The Team has developed a Preliminary Baseline Schedule in accordance with the RFP requirements and has organized the Schedule into a hierarchical Work Breakdown Structure (WBS), shown in Table 02, in order to demonstrate the relationships and activity durations amongst the milestones, permitting and contractor design(if needed), material procurement, utility relocation, and construction. All elements of the process are captured under these Level 1 tasks and are described below:

- A. Schedule Milestones: Area reserved for easy review of the Project status. TMS Level A and B testing, Service Commencement and Final Completion dates will be tracked closely in this section to provide goals for keeping the project on schedule.
- **B.** Design and Permitting Phase: Includes any design activities or permits required to be obtained after Plan Approval and Notice to Proceed is provided by Transurban. This includes both Owner and Contractor activities for obtaining permits or completing any additional design. This includes obtaining VPDES permit from DEQ for land disturbing activities. We have included time for revising and submitting alternate Maintenance of Traffic Plans for Transurban and VDOT to approve if necessary. This will be determined after the Final Plans are received if this is required or not.
- C. Stakeholder / Adjacent Project Coordination: This section was added to track any coordination efforts with adjacent projects or other stakeholders within the project limits. Currently we are not aware of any other adjacent projects that would impact this project schedule and therefore there are currently no activities for this section.
- **D.** Material Procurement: This section has been included to track the major and long lead time material procurement items from shop drawing to fabrication and delivery. As there are numerous items that will require long lead times to obtain, these activities are critical to start early in the project and to monitor to ensure the materials are delivered to the project on time to meet the schedule requirements. We will continue to update this section after NTP once more detailed

- information is provided from our subcontractor and suppliers for shop drawings, fabrication and delivery timeframes.
- **E.** Utilities: This section will outline third part utility relocations including field investigation, third party designs and relocation work. Activities will be tied to Construction activities for which can not start until an existing utility has been relocated or moved out of conflict with the proposed work. It is currently unknown if there will be any utility relocations required until additional test pit information is provided. However, we are prepared to manage the process and determine what impacts (if any) to the schedule these utility conflicts may have.
- F. Construction: The Construction section of the schedule is segmented by additional levels of WBS structure to divide the construction activities into Stages and elements of work for the Project. This grouping of work packages is proven to allow for easy and clear tracking of activity progress to ensure on-time completion of the Project and the Critical Milestones. We have distinguished the major phases of the project into four distinct areas: 1) New SB Slip Ramp, 2) Opitz Bridge Widening/Repairs, 3) Reversible T-Ramp Construction, and 4) Project Finishes. Each major area of work is then broken down further into the individual MOT stages to correspond with the project plans provided. Activities cover the scope of work necessary to complete the project on time and will be further broken down into additional shorter duration activities once the Final Plans are provided in the Final Baseline Schedule.

Table 02: WBS Structure

	2. WDS Structure						
WBS Path	WBS Name						
95EXPRESS-OPTIZBS-2	PRELIMINARY BASELINE SCHEDULE						
95EXPRESS-OPTIZBS-2.I-95 NB RRC	OPTIZ BLVD - I-95 EXPRESS LANES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.A	SCHEDULE MILESTONES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.A.A	PROJECT MILESTONES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.B	DESIGN PHASE						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.B.A	CONCESSIONAIRE PLANS						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.B.B	CONTRACTOR PLANS						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.D	PERMITTING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.D.A	CONCESSIONAIRE PERMITTING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.D.B	CONTRACTOR PERMITTING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.C	STAKEHOLDER / ADJACENT PROJECT COORDINATION						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.E	MATERIAL PROCUREMENT						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.E.A	ITS / TMS						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.E.B	SIGNAGE / SIGNALS / LIGHTING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.E.C	STRUCTURAL STEEL / PILING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.F	UTILITIES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.F.1	PRIVATE UTILITY RELOCATIONS						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.F.2	NEW UTILITY SERVICES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.F.2.1	POWER						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.F.2.2	COMM						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G	CONSTRUCTION						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.A	RELOCATION OF EXIST. SB SLIP RAMP - STAGE 1A						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.A.A	ROADWAY / MOT						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.A.B	ITS / TMS / LIGHTING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.A.C	SIGNAGE / STRIPING						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.A.D	FINISHES						
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B	OPTIZ BRIDGE WIDENING						

Optiz	Tellimary Baseline Senedule Warrative
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B.A	STAGE 1
95EXPRESS-OPTIZBS-2.I-95 NB	ROADWAY WORK
95EXPRESS-OPTIZBS-2.I-95 NB	DEMO
95EXPRESS-OPTIZBS-2.I-95 NB	SUBSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB	UTILITIES
95EXPRESS-OPTIZBS-2.I-95 NB	SUPERSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B.B	STAGE 2
95EXPRESS-OPTIZBS-2.I-95 NB	ROADWAY WORK
95EXPRESS-OPTIZBS-2.I-95 NB	DEMO
95EXPRESS-OPTIZBS-2.I-95 NB	SUBSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB	UTILITIES
95EXPRESS-OPTIZBS-2.I-95 NB	SUPERSTRUTURE
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B.C	STAGE 3A
95EXPRESS-OPTIZBS-2.I-95 NB	ROADWAY WORK
95EXPRESS-OPTIZBS-2.I-95 NB	DEMO
95EXPRESS-OPTIZBS-2.I-95 NB	SUBSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB	UTILTIES
95EXPRESS-OPTIZBS-2.I-95 NB	SUPERSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B.1	STAGE 3B
95EXPRESS-OPTIZBS-2.I-95 NB	ROADWAY WORK
95EXPRESS-OPTIZBS-2.I-95 NB	SUBSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB	UTILTIES
95EXPRESS-OPTIZBS-2.I-95 NB	SUPERSTRUCTURE
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.B.D	STAGE 4
95EXPRESS-OPTIZBS-2.I-95 NB	ROADWAY WORK
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.C	REVERSIBLE T-RAMP
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.C.B	STAGE 3
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.C.C	STAGE 4
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.D	PROJECT CLOSEOUT
95EXPRESS-OPTIZBS-2.I-95 NB RRC.G.D.B	PROJECT COMPLETION

Construction Sequencing

Our Schedule is organized by Four Major Areas of work. Within each Area, the Schedule is further divided into the specific MOT Stages to follow the approved plans. The Four Areas are broken out in the Schedule to identify the three main features of work with the fourth area to focus on Project Finishes as detailed below:

- 1) Relocation of Existing SB Slip Ramp All work required for construction of the new Slip Ramp from I-95 Southbound to the Express Lanes is included in this area of work to include MOT, Demolition Work, Roadway/Drainage Construction, TMS/Lighting/Signage and Finishes required to open the new Slip Ramp to traffic. All of this work will be completed in MOT Stage 1. During this stage, minor lane shifts will be performed on the existing 95 Southbound and Express Lanes to create room and access to construct the new SB Slip Ramp and associated elements.
- 2) Opitz Bridge Widening Work in this area will consist of all work to be performed on the Opitz Bridge Structure and roadway approaches. This includes MOT, Demolition Work, Bridge Rehabilitation/Repairs, Bridge Widenings, TMS/Lighting/Signals/Signage and Finish Work to complete all work on Opitz Boulevard including accommodation for access to the new reversible ramp to the Express Lanes. This work is scheduled to be completed in four MOT Stages:
 - Stage 1 Traffic for both EB and WB Opitz Boulevard will be shifted to the outside of the existing roadway including reducing lane widths. Work will be focused on demolition and new

- construction of median area on the bridge and roadway approaches. This will include bridge substructure and joint reconstruction, bridge superstructure work and installation of utility infrastructure for future signal, lighting, signage and TMS elements.
- Stage 2 In this stage, traffic will be shifted to the South side of Opitz Blvd. utilizing work completed in Stage 1. Work will focus on demolition and reconstruction of the bridge structure and approaches on the North Side of Opitz Blvd. Bridge rehab and repairs will continue in this stage including substructure repairs, bearing replacement and superstructure repairs at abutments and joints as well as new superstructure construction to construct the new pedestrian facilities, parapets, and fencing. Work will continue on installation of infrastructure and devices for signals, lighting, signage and TMS elements. On the roadway approaches, drainage, roadway widenings, sidewalks and work at the existing signal at Telegraph Road will be completed in this phase. Some work on 95 will also be completed in this phase to include modifications to the existing SWM Pond, grading and drainage work in the medians and construction of new OH sign foundations, guardrails and barrier walls. Bridge substructure work for the bridge widening on Opitz Blvd will also commence in this stage. New pedestrian facilities will be opened in this stage across the bridge and the approaches on Opitz Blvd including modifications made at Telegraph Road intersection for pedestrian crossings.
- Stage 3 In this stage, traffic will be shifted to the North side of Optiz Blvd. utilizing work completed in previous stages. Work will focus on demolition and reconstruction of the bridge structure and approaches on the South Side of Opitz Blvd. This will include widening of Opitz Blvd Bridge and construction of new Abutments, Piers and Retaining Walls to accommodate the bridge and roadway widenings. Once the substructure work is completed, work will commence on installation of new bridge girders, bridge deck, parapet walls and completion of roadway approaches. This work will be accelerated to ensure there is ample time to complete the TMS work on schedule for Level A and B testing. Bridge rehab and repairs will continue in this stage on substructure elements, bearing replacements as well as at the abutments and deck joints. At the roadway approaches new roadway widening to tie into the bridge structure will be completed with new drainage, signage, guardrails and other roadway components. New TMS gates, signage and signal poles, cabinets and other components will be installed as well as remaining infrastructure in the approaches and on the bridge for wiring to tie to these components. Lighting components will be completed on the bridge and new lighting installed. Traffic will be configured in few minor shifts for EB Opitz Blvd to complete all the permanent components for the new reversible ramp while also completing all the new bridge work and repairs and accommodating construction of the new reversible ramp which is covered in the final major area of work section. During all minor shifts, the same number of travel lanes will be maintained on Opitz Blvd. Work on 95 to accommodate new signage, median grading and drainage, guardrails and barrier wall will be completed in this stage.
- Stage 4 In this stage, traffic lanes will be shifted to their final configuration on Opitz Blvd while leaving the turning lanes to the new reversible ramp closed. Work in this stage will focus on permanent finish work to complete all construction on Opitz Blvd prior to opening all lanes to traffic including access to the new reversible ramp. This will include final milling and asphalt paving, striping and any remaining signage, grading and stabilization on the roadway approaches. All bridge repairs will be completed in previous stages so any remaining bridge deck milling and latex overlay including the final striping will be completed in this stage. This work will be concurrent with final testing of TMS equipment and any remaining work for the new signal at the intersection with the new reversible ramp. At the end of this stage, all work will be completed on Opitz Blvd and the area will be ready to open to traffic.
- 3) Reversible T-Ramp Work in this area will focus on construction of the new Reversible T-Ramp to tie Opitz Blvd. to the Express Lanes. This area will also include the subsequent work required on the Express Lanes and 95 NB/SB General Purpose Lanes to accommodate this new ramp. This work will be completed in Stages 3 and 4 of the overall MOT phasing. Work in this area will commence after the new SB Slip Ramp is completed and opened to traffic. The work will include demolition of existing facilities for the old SB Slip Ramp, construction of the new MSE Walls and roadway work for the new ramp,

installation of new lighting, TMS, Signage components and roadway work for 95 SB and Express lanes to include drainage, roadway, barrier walls, guardrail and signage work. Work in this area will be coordinated with work on Opitz Blvd Stage 3 as superstructure work will tie into the abutment constructed with the new Reversible Ramp. Traffic lanes will be shifted on 95 SB and Express lanes in Stage 3 to accommodate the ramp construction. The focus will be completion of the ramp work to install all TMS, Signage and Lighting components to accommodate the start of Level A and B testing. In subsequent stage, work will focus on finishing roadway construction on 95 and Express Lanes to include pavement sections, barrier walls, guardrail, final grading and stabilization and signage. At the end of this stage the temporary MOT devices will be removed and all lanes will be shifted to their final configuration prior to the start of final milling, surface paving and striping on 95 SB and the Express Lanes.

4) Project Finishes – Work in this area will focus on completing any remaining work to reach both Service Commencement dates and Final Completion of the project. This will include final milling, surface paving and striping of 95 General Purpose Lanes and Express Lanes. Any remaining grading, stabilization and signage work. Final video inspections of storm drains and underdrains and Final Inspections with Transurban and VDOT and completion of any punchlist items. Review of all documentation required for closing out the project will be accomplished during this time and all required paperwork will be submitted for final approval including As-built Plans, Material Notebooks, Approved Submittals, O&M Manuals as well as finishing required burn in periods, Level A and B testing and performing any remaining field training or demonstrations for new equipment installed.

Schedule Calendars

The following is a description of the calendars used for this Project.

Standard 5-Day Holidays No Weather Calendar

This calendar is based on five working days per week with holidays inserted as non-work days. This calendar is used for all design and administrative activities in the CPM network.

Standard 5-Day Holiday w/Weather Calendar

This calendar is used for the majority of construction activities. It includes holidays inserted in the "Standard 5-Day Holidays No Weather" calendar as well as 'block-out' days for the anticipated normal weather in the region.

Winter Shutdown Calendar

Assigned to activities that are unable to be performed during mid-December through mid-March due to cold weather. Activities such as roadway paving and permanent striping are included in this restricted calendar.

Standard 7-Day Calendar

Assigned to activities that have durations based on calendar days instead of work days. Activities such as Material Fabrication, Level A and B Testing, Third Party Utility Work, Transurban and VDOT's Reviews are included in this calendar.

Plan to Accomplish the Work / Means and Methods

The narrative below describes our Team's overall plan and sequence of operations grouped by the Level I WBS Project disciplines. These include Design/Permitting, Material Procurement, Utilities and Construction. The sequencing of each discipline was developed by considering the construction phasing and determining the longest path to Project Completion. All factors were considered including utility work, manpower, subcontractors, materials, permitting constraints, TMS testing requirements and most importantly, public and workforce safety.

Design/Permitting

This section of the schedule includes those activities that will be required for any remaining design and permitting acquisitions. This work will commence as soon as Notice to Proceed is received. Obtaining the permit from DEQ for land disturbing activities is on the critical path so focus will be on completed this first.

Material Procurement

Obtaining long lead time materials will be critical to the overall schedule. We have identified the most critical elements and including activities with obtain, submitting and approving shop drawings, fabricating and purchasing materials and delivery of materials to the project. These activities are then tied to installation activities in the Construction section. We have committed with Transurban to start on locking in certain elements prior to NTP as well as starting on shop drawings to ensure this work is completed on time. We will continue to monitor this closely with our subcontractors and suppliers to ensure the materials are tracking to be delivered per the schedule.

Utilities

It is anticipated that the impacts to existing utilities will be minimal and will likely not be on the critical path. However, we do have extensive experience working with all private utility owners in this region and will identify any utility conflicts early on in the project and coordinate relocation designs with the private utility owners so that their work can be completed well before it will impact any of the permanent work. This section is also being utilized to track work necessary for new services to be provided for the new electric services to TMS/Lighting/Signage equipment as well as for new VDOT Signal and lighting on Opitz Blvd. We will start all coordination efforts as soon as NTP is provided to ensure this work is never on the critical path.

Construction

Construction requires substantial resource coordination and management while working simultaneously in different areas, and sometimes in different stages. Our Project Team will employ a very detailed CPM to manage the multiple features of work. Field resource efficiency, planning and communication will be maximized utilizing three-week schedules in addition to the CPM, production planners, machine control, GPS and Field Data Capture. The sequence of work by Stage is described above.

Critical Path

Critical path is highlighted in the Preliminary Baseline CPM Schedule. In summary, the Critical Path runs directly through obtaining the DEQ permit to start initial land disturbing activities to include mobilization, initial MOT, clearing and E&S Controls. Procurement of OH Sign Structures necessary for work in Stage 1 for New SB Slip Ramp is also on the Critical Path.

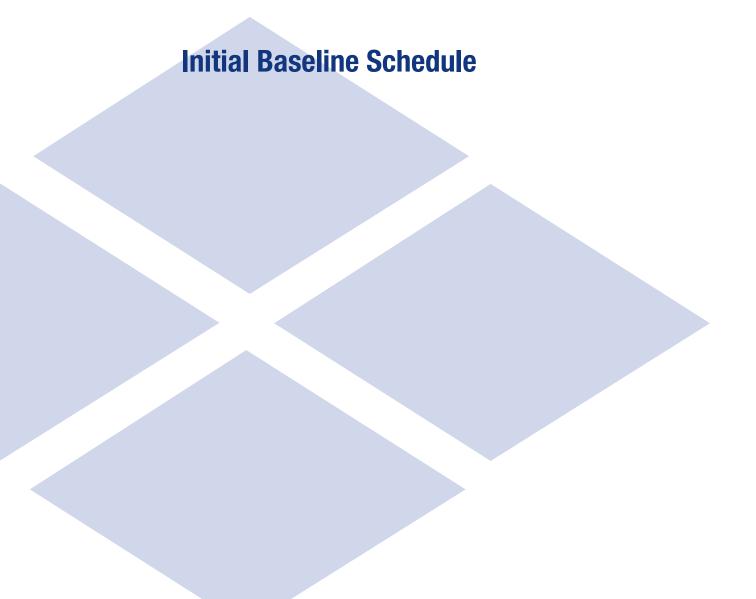
Construction of the new SB Slip Ramp including the major grading, drainage, roadway, pavement section work is on the critical path leading to installation of TMS/Signage Components and installation of new OH Sign structures for Variable Message Signs. This work is proceeding the Level A and B testing which will proceed the opening of the new SB Slip Ramp. Completion and opening of the new SB Slip Ramp is on the Critical Path as this is needed to start construction on the new Reversible Ramp at Opitz Blvd.

Opening of the new SB Slip Ramp ties to decommissioning of the existing equipment at the existing SB Slip Ramp near Opitz Blvd. Once this equipment is removed, work will immediately commence on construction of the new reversible ramp which is on the critical path. This includes any new TMS/Lighting/Signage work on 95/Express Lanes and Opitz for the reversible ramp, MSE walls, abutment construction, structural steel and superstructure work that will tie into Opitz Blvd Bridge. This ties to Level A and B testing required for the new components installed at the new Reversible Ramp which ties to opening of the new ramp. Opening of the new ramp is the predecessor for Service

Commencement Date and will include completion of all work as detailed in the RFP for this milestone. This will also kickoff any remaining work permissible to be completed after service commencement and all final inspections and punchlist work which is also on the Critical Path leading to Final Completion of the project.

Key Scheduling Assumptions

- Limited NTP will be provided by Transurban in order to lock in material fabrication dates and start shop drawings for long lead time items.
- Full NTP and Approved Plans will be provided by Transurban by August 15, 2022.
- Utility Relocations are minimal and will only be necessary for communication lines crossing I-95 north of Opitz Blvd and utility companies/owners will coordinate their relocations and provide new services in accordance with our Proposal Schedule.
- Coordination between Transurban TMS Contractor and Shirley's TMS contractor will be such that Level A and B testing can commence as soon as necessary equipment and infrastructure is installed and will take no more than 30 calendar days and 120 calendar days respectively.
- There are no hazardous materials, threatened & endangered species, permits or unforeseen environmental constraints, other than those identified in the RFP, that could delay the work.
- Any contaminated materials found onsite will have a concentration suitable for onsite fills.
- Crew leveling has been developed through crew-flow relationships between like activities.
- Crews are based on an 8-hour workday and 5-day workweek calendar. A detailed description of the calendars is included in this narrative.
- Generally, the schedule has been built with work in certain Areas of the Project starting when access is available and/or at the completion of a prior stage of work. We have provided some crew flow predecessor relationships in several locations throughout the schedule mainly where adjacent work is available and crew flow is logical as to not 'stack' too many construction elements within a stage.
- Finish-Start relationships are used as much as possible to create a logical flow of work in each area. There is some overlapping of activities such as with earthwork and drainage activities performed by different crews as required to work in multiple areas within the stages.



BIT O - INITIAL BASEL ID	Activity Name	Budgeted Total	Dur	Start	OULEVARD P	Total	1 2022 2024 2
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XHIBIT O - INIT	TIAL BASELINE SCHEDULE	\$59,127,675.84	595	05-31-22	10-13-24	0	
		\$59.127.675.84	595	05-31-22	10-13-24	0	10-13-24, 0
	-95 EXPRESS LANES	, , , , , , , , , , , , , , , , , , ,					
SCHEDULE MILI		\$135,000.00	867	05-31-22	10-13-24	0	V 10-13-24, \$
PROJECT MILE		\$135,000.00	867		10-13-24	0	10-13-24, F
MS-1000	ANTICIPATED NOTICE OF INTENT TO AWARD	\$0.00	0	05-31-22*		0	ANTICIPATED NOTICE OF INTENT TO AWARD
MS-1100	CONTRACT EXECUTION	\$0.00	76	05-31-22	08-14-22	0	CONTRACT EXECUTION
MS-1200	NOTICE TO PROCEED	\$0.00	0	08-15-22		0	◆ NOTICE TO PROCEED
MS-1250	START STAGE 1A WORK ON SLIP RAMP	\$0.00	0	11-15-22		0	♦ START STAGE 1A WORK ON SLIP RAMP
MS-1300	COMPLETE CONTRACTOR MOT PLANS	\$0.00	0		11-15-22	105	◆ COMPLETE CONTRACTOR MOT PLANS
MS-1350	START ITS / TMS FINAL TESTING/INTEGRATION - SLIP RAMP (LEVEL A)	\$0.00	0	06-19-23		0	◆ START IT\$ / TMS FINAL TESTING/INTEGRATION - SLIP RAMP (LE
MS-1400	START TMS CONTRACTOR PROGRAMMING/INTEGRATION - SLIP RAMP (LEVEL B)	\$0.00	0	08-01-23		0	◆ START TMS CONTRACTOR PROGRAMMING/INTEGRATION
MS-1450	OPEN PEDESTRIAN FACILITY ON OPITZ	\$0.00	0		07-14-23	367	◆ OPEN PEDESTRIAN FACILITY ON OPITZ
MS-1500	OPEN NEW SLIP RAMP TO TRAFFIC	\$0.00	0		12-05-23	0	◆ OPEN NEW SLIP RAMP TO TRAFFIC
MS-1550	START STAGE 1 WORK ON OPTIZ BLVD	\$0.00	0	11-15-22		20	◆ START STAGE 1 WORK ON OPTIZ BLVD
MS-1600	START CONSTRUCTION OF REVERSIBLE T-RAMP	\$0.00	0	12-06-23		29	♦ START CONSTRUCTION OF REVERSIBLE T-R
MS-1650	START ITS / TMS FINAL TESTING/INTEGRATION - REVERSIBLE RAMP (LEVEL A)	\$0.00	0	02-01-24		0	♦ START ITS / TMS FINAL TESTING/INTEG
MS-1700	START TMS CONTRACTOR PROGRAMMING/INTEGRATION - REVERSIBLE RAMP (\$0.00	0	03-14-24		0	START TMS CONTRACTOR PROG
MS-1800	OPEN REVERSIBLE RAMP TO TRAFFIC	\$0.00	0		07-15-24	0	◆ OPEN REVERSIBLE
MS-1900	SERVICE COMMENCEMENT DATE	\$0.00	0		07-15-24*	0	→ SERVICE COMMENC
MS-1950	COMPLETE BRIDGE WIDENING WORK	\$0.00	0		05-08-24	68	→ ¢ompleté bridge wideni
MS-2000	FINAL INSPECTIONS / COMPLETE PUNCHLIST	\$135,000.00	90	07-16-24	10-13-24	0	FINAL INS
MS-2100	ADMINISTRATIVE END OF CONTRACT	\$0.00	0	00 = .	10-13-24	0	→ ADMINISTE
MS-2200	FINAL COMPLETION DATE	\$0.00	0		10-13-24	0	♦ FINAL CON
DESIGN PHASE		\$0.00	119	05-31-22	11-15-22	67	11-15-22. DESIGN PHASE
CONCESSIONA		\$0.00	0	00 01 22	11 10 22	0	VIII 10 22, DEGICINI III/OL
CONTRACTOR		\$0.00	169	05-31-22	11-15-22	105	11-15-22, CONTRACTOR PLANS
DES-1000	PREPARE/SUBMIT 1ST SUBMISSION MOT PLANS	\$0.00	90	05-31-22	08-28-22	92	PREPARE/SUBMIT 1ST SUBMISSION MOT PLANS
DES-1100	OWNER / VDOT REVIEW / COMMENT MOT PLANS	\$0.00	17	08-29-22	09-14-22	92	OWNER / VDOT REVIEW / COMMENT MOT PLANS
DES-1200	COMMENT REPSONSES - 1ST SUBMISSION PLANS	\$0.00	20	09-15-22	10-04-22	92	COMMENT REPSONSES - 1ST SUBMISSION PLANS
DES-1300	PREPARE SUBMIT FINAL MOT PLANS	\$0.00	25	10-05-22	10-29-22	92	PREPARE SUBMIT FINAL MOT PLANS
DES-1400	OWNER / VDOT REVIEW / APPROVE FINAL MOT PLANS	\$0.00	17	10-30-22	11-15-22	105	OWNER /VDOT REVIEW / APPROVE FINAL MOT PLANS
	OWNER/ VDOT REVIEW / AFFROVET INAL MOTE LANG	\$0.00		05-31-22	11-13-22		
PERMITTING	ADE DEDMITTING	- 1	182			92	▼ 11-28-22, PERMITTING
PRMT-1300	OWNER OBTAIN VDOT LUP - SLIP RAMP (IF REQUIRED)	\$0.00 \$0.00	55 55	05-31-22	07-24-22 07-24-22	21	OV-24-22, CONCESSIONAIRE PERMITTING OWNER OBTAIN VOOT LUP - SLIP RAMP (IF REQUIRED)
CONTRACTOR		\$0.00	106		11-28-22		VIII-28-22, CONTRACTOR PERMITTING
PRMT-1200	CONTRACTOR OBTAIN DEQ PERMIT FOR LAND DISTURBANCE	\$0.00	60	08-15-22	10-13-22	92	CONTRACTOR OBTAIN DEQ PERMIT FOR LAND DISTURBANCE
PRMT-1400	CONTRACTOR OBTAIN DEG PERMIT FOR LAND DISTORBANCE CONTRACTOR OBTAIN PW COUNTY PERMIT (IF REQUIRED)	\$0.00	30	10-30-22	11-28-22	92	CONTRACTOR OBTAIN PW COUNTY PERMIT (IF REQUIRED)
PRMT-1400 PRMT-1500	CONTRACTOR OBTAIN PW COUNTY PERMIT (IF REQUIRED) CONTRACTOR OBTAIN VDOT LUP - BRIDGE AND REVERSIBLE RAMP (IF REQUIRE			10-30-22		92	CONTRACTOR OBTAIN PW COUNTY PERMIT (IF REQUIRED) CONTRACTOR OBTAIN VOOT LUP BRIDGE AND REVERSIBLE RAMP (IF REQUIRED)
		\$0.00	30	10-30-22	11-28-22		CONTRACTOR OBTAIN VOOT LUP - BRIDGE AND REVERSIBLE RAWF (IF REQUIRED)
	/ ADJACENT PROJECT COORDINATION	\$0.00	0	00.45.00	07.47.00	0	TOTAL TO MATERIAL PROPERTY.
MATERIAL PRO	CUREMENT	\$4,250,000.00	337		07-17-23	155	V 7 07-17-23, MATERIAL PROCUREMENT
ITS / TMS	OLIDMIT (ADDDOVE OLIOD DDAWINGO	\$2,000,000.00	260	08-15-22	05-01-23	232	05-01-23, ITS / TMS
MATL-1000	SUBMIT / APPROVE SHOP DRAWINGS	\$0.00	80	08-15-22	11-02-22	42	SUBMIT / APPROVE SHOP DRAWINGS
MATL-1100	FABRICATE DELIVER ITS/TMS FOR SLIP RAMP	\$1,000,000.00	120	11-03-22	03-02-23	42	FABRICATE DE LIVER (TS / TIMS FOR SLIP RAMP
MATL-1200	FABRICATE DELIVER ITS/TMS FOR REVERSIBLE RAMP	\$1,000,000.00	120	01-02-23	05-01-23	232	FABRICATE DELIVER ITS / TMS FOR REVERSIBLE RAMP
	NALS/LIGHTING	\$1,000,000.00	337			125	
MATL-1300	SUBMIT / APPROVE SHOP DRAWINGS	\$0.00	77	08-15-22	10-30-22	0	SUBMIT / APPROVE SHOP DRAWINGS
MATL-1400	FABRICATE DELIVER SIGN/POLE STRUCTURES FOR SLIP RAMP	\$500,000.00	200	10-31-22	05-18-23	0	FABRICATE DELIVER SIGN/POLE STRUCTURES FOR SLIP RAMP
Actual Work	Critical Remaining Work Summary		D-	ago 1 of 6			TASK filter: All Activities
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	Activity Name	Budgeted Total Cost	Dur	Start	Finish	Total Float	2022
MATL-1500	FABRICATE DELIVER MATERIALS FOR REVERSIBLE RAMP	\$500,000.00	200	12-30-22	07-17-23	125	FABRICATE DELIVER MATERIALS FOR REVERSIBLE RAMP
STRUCTURAL S		\$1,250,000.00	320	08-15-22	06-30-23	172	▼ 06-30-23, STRUCTURAL STEEL / PILING
MATL-1600	SUBMIT / APPROVE SHOP DRAWINGS	\$0.00	80	08-15-22	11-02-22	172	SUBMIT / APPROVE SHOP DRAWINGS
MATL-1700	FABRICATE DELIVER FOUNDATION / WALL PILING	\$250,000.00	120	11-03-22	03-02-23	175	FABRICATE DELIVER FOUNDATION / WALL PILING
MATL-1800	FABRICATE DELIVER STRUCTURAL STEEL	\$1,000,000.00	240	11-03-22	06-30-23	172	FABRICATE DELIVER STRUCTURAL STEEL
UTILITIES		\$100,000.00	376	05-31-22	06-10-23	372	▼ 06-10-23, UTILITIÈS
	YRELOCATIONS	\$0.00	280	05-31-22	03-06-23	105	03-06-23, PRIVATE UTILITY RELOCATIONS
UTIL-1300	FINALIZE UTILITY RELOCATION PLANS / COORDINATE WITH UTILITY OWNERS	\$0.00	120	05-31-22	09-27-22	105	FINALIZE UTILITY RELOCATION PLANS/ COORDINATE WITH UTILITY/OWNERS
UTIL-1400	RELOCATE EXISTING THIRD PARTY UTILITIES (TBD)	\$0.00	160	09-28-22	03-06-23	105	RELOCATE EXISTING THIRD PARTY UTILITIES (TBD)
NEW UTILITY SE	ERVICES	\$100,000.00	376	05-31-22	06-10-23	372	▼ 06-10-23, NEW UTILITY \$ERVICES
POWER		\$90,000.00	320	05-31-22	04-15-23	428	▼ 04-15-23, POWER
UTIL-2000	SUBMIT LOAD LETTERS / WORK ORDERS FOR NEW POWER SERVICES	\$0.00	30	05-31-22	06-29-22	142	SUBMIT LOAD LETTERS / WORK ORDERS FOR NEW POWER SERVICES
UTIL-2100	DESIGN FOR POWER FEED TO PANEL H118A	\$30,000.00	60	06-30-22	08-28-22	142	DESIGN FOR POWER FEED TO PANEL H118A
UTIL-2200	POWER COMPANY INSTALL METER / POWER SERVICE TO H118A	\$0.00	150	08-29-22	01-25-23	142	POWER COMPANY INSTALL METER / POWER SERVICE TO H118A
UTIL-2300	DESIGN FOR POWER FEED TO PANEL H117A	\$30,000.00	90	06-30-22	09-27-22	298	DESIGN FOR POWER FEED TO PANEL H117A
UTIL-2400	POWER COMPANY INSTALL METER / POWER SERVICE TO H117A	\$0.00	150	10-08-22	03-06-23	288	POWER COMPANY INSTALL METER / POWER SERVICE TO H117A
UTIL-2500	DESIGN FOR POWER FEED FOR REVERSIBLE RAMP SIGNAL	\$30,000.00	120	06-30-22	10-27-22	448	DESIGN FOR POWER FEED FOR REVERSIBLE RAMP SIGNAL
UTIL-2600	POWER COMPANY INSTALL METER / POWER SERVICE TO SIGNAL	\$0.00	150	11-17-22	04-15-23	428	POWER COMPANY INSTALL METER / POWER SERVICE TO SIGNAL
COMM		\$10,000.00	300	08-15-22	06-10-23	372	▼ 06-10-23, COMM
UTIL-2700	COORDINATE WITH VDOT / COMM COMPANY FOR SIGNAL COMM DESIGN	\$0.00	120	08-15-22	12-12-22	372	COORDINATE WITH VDOT / COMM COMPANY FOR SIGNAL COMM DESIGN
UTIL-2800	INSTALL SERVICE FOR SIGNAL COMMATREVERSIBLE RAMP	\$10,000.00	180	12-13-22	06-10-23	372	INSTALL SERVICE FOR SIGNAL COMMAT REVERSIBLE RAMP
CONSTRUCTION		\$54,642,675.84	520	08-15-22	09-11-24	22	▼ 09-11-24, CON
GEN-1000	MOBILZATION / SET UP FIELD OFFICE / LAYDOWN YARDS	\$2,985,500.00	45	09-06-22	11-07-22	0	MOBILZATION / SET UP FIELD OFFICE / LAYDOWN YARDS
GEN-1100	PRELIMINARY SURVEY/ RECOVER CONTROL	\$20,000.00	30	10-04-22	11-14-22	0	PRELIMINARY SURVEY / RECOVER CONTROL
GEN-1200	INSTALL PRELIMINARY MOT SIGNAGE / E&S CONTROLS	\$28,010.00	5	11-08-22	11-14-22	0	INSTALL PRELIMINARY MOT SIGNAGE / E&S CONTROLS
GEN-1220	CLEAR AND GRUB / INSTALL ADDITIONAL E&S CONTROLS	\$75,000.00	7	11-15-22	11-23-22	91	☐ CLEAR AND GRUB / INSTALLADDITIONAL E&S CONTROLS
GEN-1250	EROSION AND SEDIMENT CONTROL MAINTENANCE	\$477.933.00	450	11-15-22	09-04-24	27	EROSION AND
GEN-1300	CONSTRUCTION SURVEY	\$325,000.00	450	11-15-22	09-04-24	27	CONSTRUCTI
GEN-1350	DAILY MOT NEEDS AND MAINTENANCE	\$2.520.857.00	450	11-15-22	09-04-24	27	DAILY MOT NE
GEN-1400	QA-QC	\$6.000.000.00	520	08-15-22	09-11-24	22	QA-QC
	F EXIST. SB SLIP RAMP - STAGE 1A	\$9,675,505.00					to of ab Dirich Carron of thirty
ROADWAY / N		\$2,807,359.00	180	11-15-22	08-07-23	68	V (2-05-23, RELOCATION OF EXIST. SB SLIP RATE OF THE PROPERTY
SLIP-2700	SHIFT LANES INSTALL STAGE 1A MOT	\$84,029.00	15	11-15-22	12-07-22	0	SHIFT LANES INSTALL STAGE 1A MOT
SLIP-2800	DEMO EXISTING ELEMENTS	\$95,759.00	15	12-08-22	01-05-23	0	DEMO EXISTING ELEMENTS
SLIP-2900	INSTALL PERMANENT DRAINAGE - PH. 1	\$264,170.00	20	01-06-23	02-02-23	0	INSTALL PERMANENT DRAINAGE - PH 1
SLIP-3000	CUT / FILL ROUGH FINISH GRADE - PH. 1	\$95,759.00	15	02-03-23	02-23-23	5	CUT / FILL ROUGH FINISH GRADE - PH. 1
SLIP-3100	INSTALL PERMANENT DRAINAGE - PH. 2	\$250,267.00	20	02-03-23	03-02-23	0	INSTALL PERMANENT DRAINAGE - PH. 2
SLIP-3200	CUT / FILL ROUGH FINISH GRADE - PH. 2	\$127,679.00	20	03-03-23	03-30-23	0	CUT / FILL ROUGH FINISH GRADE - PH. 2
SLIP-3300	PLACE SUB-BASE AGGREGATE	\$429,102.00	15	03-03-23	03-30-23	0	PLACE SUB-BASE AGGREGATE
SLIP-3400	INSTALL UNDERDRAIN / ADJUST STRUCTURES TO GRADE	\$143,034.00	5	03-31-23	04-20-23	0	I INSTALL UNDERDRAIN / ADJUST STRUCTURES TO GRADE
SLIP-3450	FPS BARRIER WALL FOOTINGS	\$146,034.00	8	04-21-23	05-02-23	0	FPS BARRIER WALL FOOTINGS
SLIP-3500	PAVEMENT SECTION	\$429,102.00	15	04-21-23	05-02-23	0	PAVEMENT SECTION
SLIP-3600	BARRIER WALL / GUARDRAIL	\$429,102.00	-	05-19-23	06-23-23	73	BARRIER WALL / GUARDRAIL
			25			-	44
SLIP-3800	COMPLETE ROADWAY WORK AT OH SIGN FOUNDATION	\$286,068.00	10	07-25-23	08-07-23	68	COMPLETE ROADWAY WORK AT OH SIGN FOUNDATION
ITS / TMS / LIC SLIP-1000	REMOVE EXISTING POLES AND EQUIPMENT	\$4,271,604.00	243	12-08-22	11-28-23	5	▼ 11-28-23, IT\$ / TM\$ / LIGHTING □ REMOVE EXISTING POLE\$ AND EQUIPMENT
		\$145,348.00	10	12-08-22	12-21-22	5	4
SLIP-1400	INSTALL LIGHT POLE FOUNDATIONS	\$218,022.00	15	02-24-23	03-16-23	15	INSTALL NEW LIGHT POLE FOUNDATIONS
SLIP-1700	INSTALL LIGHTING CONDUIT / JB	\$218,022.00	15	03-17-23	04-06-23	15	□ INSTALL LIGHTING CONDUIT / JB
Actual Work	Critical Remaining Work Summary		Pa	ige 2 of 6			TASK filter: All Activities
Remaining Work	♦ Milestone						© Oracle Corpo

	INITIAL BASELINE S	<u> </u>				DULEVARD P		2022	SHIRLEY CONTRACTING COMPANY, LLC 07-28-22		
D		Activity Name	Budgeted Total Cost	Dur	Start	Finish	Total Float	JIJIAIS	2023 2024 202 S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F		
			Cost				libat				
	SLIP-1800	PULL WIRE / INSTALL LIGHT POLES	\$145,348.00	10	05-19-23	06-02-23	103		PULL WIRE/ INSTALL LIGHT POLES		
	SLIP-1900	INSTALL GATE / POLE FOUNDATIONS	\$553,885.00	25	02-24-23	03-30-23	10		INSTALL GATE / POLE FOUNDATIONS		
	SLIP-2000	INSTALL ITS / TMS CONDUITS / JB	\$664,662.00	30	03-10-23	04-20-23	10		INSTALL ITS / TMS CONDUITS / JB		
	SLIP-2100	INSTALL SERVICE PANEL / BACKUP GENERATOR - 95 SB	\$664,662.00	30	03-24-23	05-04-23	30		INSTALL SERVICE PANEL / BACKUP GENERATOR - 95 SB		
	SLIP-2200	INSTALL ITS / TMS EQUIPMENT / PULL WIRE	\$996,993.00	45	03-31-23	06-02-23	10		INSTALL IT\$ / TMS EQUIPMENT / PULL WIRE		
	SLIP-2300	ITS / TMS INTEGRATION TO EXISTING SYSTEM / SYSTEM TESTING (LEVEL A)	\$664,662.00	30	06-19-23	07-31-23	0		ITS / TMS INTEGRATION TO EXISTING SYSTEM / SYSTEM TES		
	SLIP-2500	TMS PROGRAMMING / INTEGRATION (TMS CONTRACTOR) (LEVELB)	\$0.00	120	08-01-23	11-28-23	0		TMS PROGRAMMING / INTEGRATION (TM\$ CON		
	SIGNAGE / STRIP	PING	\$2,011,751.00	105	02-24-23	07-24-23	68		▼ 07-24-23, SIGNAGE / STRIPING		
	SLIP-1100	INSTALL OH SIGN FOUNDATIONS	\$804,700.00	40	02-24-23	04-20-23	20		INSTALL OH SIGN FOUNDATIONS		
	SLIP-1200	ERECT NEW OH SIGN STRUCTURES	\$402,350.00	20	05-19-23	06-16-23	0		ERECT NEW OH SIGN STRUCTURES		
	SLIP-1300	INSTALL DMS CONDUIT / CABINETS / EQUIPMENT	\$201,175.00	10	06-19-23	06-30-23	0		■ INSTALL DMS CONDUIT / CABINETS / EQUIPMENT		
	SLIP-1600	INSTALL GROUND MOUNT SIGNAGE	\$301,763.00	15	06-26-23	07-17-23	73		INSTALL GROUND MOUNT SIGNAGE		
	SLIP-3700	REMOVE EXISTING SIGN STRUCTURES / FOUNDATIONS	\$301,763.00	15	07-03-23	07-24-23	68		REMOVE EXISTING SIGN STRUCTURES / FOUNDATIONS		
	FINISHES	NEIMOTE EXICTING CIGIT OTTIOG OFFICE / TO CITED/THORIC	\$584,791.00	98	07-18-23	12-05-23	0		12-05-23, FINISHES		
Г	SLIP-1500	FNISH GRADE SLOPES / DITCHES / FINAL STABILIZATION	\$127,679.00	20	07-18-23	08-14-23	73		FNISH GRADE SLOPES / DITCHES / FINAL STABILIZATION		
	SLIP-1550	MIL/OVERLAY AND STRIPING EXPRESS LANES AT NEW SLIP RAMP	\$429,102.00	15	11-13-23	12-05-23	0		MIL/OVERLAY AND STRIPING EXPRESS LANES		
	SLIP-2400	REMOVE MOT DEVICES / SHIFT TRAFFIC TO FINAL CONFIGURATION	\$28,010.00	5	11-29-23	12-05-23	0		REMOVE MOT DEVICES / SHIFT TRAFFIC TO FI		
	SLIP-2600	OPEN NEW SLIP RAMP TO TRAFFIC	\$0.00	0	11-23-23	12-05-23	0		◆ OPEN NEW SLIP RAMP TO TRAFFIC		
			\$24.944.040.00		44.45.00		0				
	OPTIZ BRIDGE WIDI STAGE 1	ENING	\$1,401,962.00	56	11-15-22 11-15-22	06-13-24 02-10-23	12		▼ 06-13-24, ÓPTIZ BRIÐGE V ▼ 02-10-23, STAGE 1		
	ROADWAY WO	DRK	\$445.615.00		11-15-22	01-20-23	27		▼ 01-20-23, TAGE!		
) SHIFT TRAFFIC / INSTALL STAGE 1A MOT	\$61,621.00	11	11-15-22	12-01-22	12		☐ SHIFT TRAFFIÇ / INSTALL STAGE 1AMOT		
		MODIFY EXISTING SIGNAL	\$97,926.00	6	11-22-22	12-01-22	12		☐ MODIFY EXISTING SIGNAL		
		D DEMO EXISTING APPROACH MEDIANS / INSTALL TEMPORARY PAVEMENT	\$286,068.00	10	01-09-23	01-20-23	27		DEMO EXISTING APPROACH MEDIANS / INSTALL TEMPORARY PAVEMENT		
	DEMO	SEMO EXISTINO ALL TROMOTIME BINANO / INCITALE FEMILIOTO INTO TAKE IT IN CONTINUE ALL TROMOTIME BINANO / INCITALE FEMILION IN CONTINUE BINANO / INCITALE FEMILION / INCITALE FEMILION / INCITALE FEMIL	\$110,855.00	20	12-02-22	01-06-23	17		▼ 01-06-23, DEMO		
		DEMO EXISTING MEDIAN / BRIDGE DECK	\$63,346.00	20	12-02-22	01-06-23	12		DEMO EXISTING MEDIAN / BRIDGE DECK		
		D DEMO EXISTING ABUTMENT BACKWALLS	\$31,673.00	10	12-09-22	12-22-22	12		DEMO EXISTING ABUTMENT BACKWALLS		
		DEMO EXISTING JOINTS	\$15,836.00	5	12-23-22	01-06-23	17		D PEMO EXISTING JOINTS		
	SUBSTRUCTU		\$367,358.00	10	12-23-22	01-00-23	12		VTV 01-13-23, SUBSTRUCTURE		
		FPS ABUT A BACKWALL	\$183,679.00	10	12-23-22	01-13-23	12		FP\$ ABUT A BACKWALL		
		FPS ABUT B BACKWALL	\$183,679.00	10		01-13-23	12		FPS ABUT B BACKWALL		
		THOADOT B BACKWALL	\$110,777.00	- TO	01-09-23		12		▼ 01-13-23, ÚTILITIES		
	OPT71-1400	INSTALL CONDUITS / JB FOR FUTURE DEVICES	\$110,777.00	5	01-09-23	01-13-23 01-13-23	12		I INSTALL CONDUITS / JB FOR FUTURE DEVICES		
	SUPERSTRUCT		\$367,357.00	20	01-09-23	02-10-23	12		VV 02-10-23, \$UPERSTRUCTURE		
		FPS NEW BRIDGE DECK AND JOINTS	\$367,357.00	20	01-16-23	02-10-23	12		FP\$ NEW BRIDGE DECK AND JOINTS		
	STAGE 2	THOREW BRIDGE BEORNING CONTIN	\$6,000,828.00	98	02-13-23	06-29-23	144		▼ 06-29-23, STAGE 2		
	ROADWAY WO	DRK	\$2,710,876.00	98	02-13-23	06-29-23	12		▼ 06-29-23, ROADWAY WORK		
		SWITCH TRAFFIC / INSTALL STAGE 2A MOT	\$56,019.00	10	02-13-23	02-24-23	12		SWITCH TRAFFIC / INSTALL STAGE 2A MOT		
) MODIFY EXISTING SIGNAL	\$81,605.00	5	02-20-23	02-24-23	12		I MODIFY EXISTING SIGNAL		
		D DEMO / GRADE WORK FOR SIDEWALK/CURB/PAVEMENT SECTION	\$63,840.00	10	02-27-23	03-10-23	32		DEMO / GRADE WORK FOR SIDEWALK/CURB/PAVEMENT SECTION		
		INSTALL NEW SIGNAL EQUIPMENT	\$244,816.00	15	04-10-23	04-28-23	45		INSTALL NEW SIGNAL EQUIPMENT		
) INSTALL STORM DRAINAGE - OPITZ BLVD	\$111,230.00	Q	04-10-23	04-19-23	12		■ INSTALL STORM DRAINAGE - OPITZ BLVD		
				10	_		-				
		PLACE AGGREGATE / UNDERDRAIN / CURB & GUTTER - OPTIZ BLVD	\$343,282.00	12	04-20-23	05-05-23	12		PLACE AGGREGATE / UNDERDRAIN / CURB & GUTTER - OPTIZ BLVD		
		INSTALL PAVEMENT SECTION - OPITZ BLVD	\$143,034.00	5	05-08-23	05-12-23	12		INSTALL PAVEMENT SECTION - OPITZ BLVD		
		INSTALL SIDEWALK / GUARDRAIL - OPITZ BLVD	\$273,814.00	15	05-15-23	06-05-23	12		INSTALL SIDEWALK / GUARDRAIL - OPITZ BLÝD		
		MODIFY RAMPS/SIDEWALK AT TELEGRAPH RD	\$146,034.00	8	06-06-23	06-15-23	12		MODIFY RAMPS/SIDEWALK AT TELEGRAPH RD		
	OPTZ2-2700	FINAL GRADING / STABILIZATION	\$63,840.00	10	06-16-23	06-29-23	12		☐ FINAL GRADING / STABILIZATION		
	OPTZ2-2800	INSTALL NEW OH SIGN FOUNDATIONS 95 NB / BARRIER WALL / BPPS WALL / GUA	\$603,525.00	30	02-27-23	04-07-23	50		INSTALL NEW OH SIGN FOUNDATIONS 95 NB / BARRIER WALL / BPPS WAL		
Δς	tual Work	Critical Remaining Work ▼ Summary		Dr	2 of 6				TASK filter: All Activities		
- AC	tuai VV OI K	Childa Itemaning Work 🔻 🔻 Juninary		Pa	age 3 of 6				TASK filter: All Activities		

ty ID	NITIAL BASELINE SO				ANES OPITZ E	Finish	Total	
טו		Activity Name	Budgeted To Cost	otal D	ui Start	FINISH	Float	
	OPT72 2000	MODIFY EXIST SWM POND ON 95 NB	\$278,074.0	20 2	0 04-10-23	05-05-23	50	MODIFY EXIST SWM POND ON 95 NB
		INSTALL OH SIGN STRUCTURE / GROUND MOUNTED SIGNS						INSTALL OH SIGN STRUCTURE / GROUND MOUNTED SIGNS - 95
	DEMO	INSTALL OF SIGN STRUCTURE / GROUND MOUNTED SIGNS	\$677,727.0		0 02-27-23		26 50	<u></u>
		DEMO EXISTING BRIDGE PARAPETS / DECK / SUBSTRUCTUR					12	DEMO EXISTING BRIDGE PARAPETS / DECK / \$UBSTRUCTURE
		DEMO EXISTING ABUTMENT BACKWALLS / WINGWALLS	\$47,509.0		5 03-06-23		12	DEMO EXISTING ABUTMENT BACKWALLS / WINGWALLS
		DEMO EXISTING JOINTS	\$15,836.0				50	DEMO EXISTING JOINTS
		REHAB EXISTING BEARING ASSEMBLIES	\$551,036.0				50	REHAB EXISTING BEARING ASSEMBLIES
	SUBSTRUCTUR		\$734,714.0				12	V 04-21-23, SUBSTRUCTURE
		FPS ABUTMENT A BACKWALL / WINGWALL	\$367,357.0			_	12	FPS ABUTMENT A BACKWALL / WINGWALL
		FPS AUBTMENT B BACKWALL/ WINGWALL	\$367,357.0		0 03-27-23		12	FPS AUBTMENT B BACKWALL/ WINGWALL
	UTILITIES	TTO AGDINIENT B BAGKWALE, WINGWALE	\$775,439.0		5 04-10-23		177	▼ 05-12-23, UTILITIES
		INSTALL CONDUITS / JB FOR FUTURE DEVICES	\$221,554.0		0 04-10-23		22	□ INSTALL CONDUITS / JB FOR FUTURE DEVICES
		INSTALL ELECTRICAL PANEL / BACKUP GENERATOR - 95 NB	\$553,885.0				177	INSTALL ELECTRICAL PANEL / BACKUP GENERATOR - 95 NB
	SUPERSTRUTU		\$1,102,072				25	V 06-12-23, \$UPER\$TRUTURE
		FPS BRIDGE DECKS / JOINTS	\$367,357.0		0 04-10-23		12	FPS BRIDGE DECKS/JOINTS
		FPS APPROACH SLABS / PARAPET WALLS / BLISTERS / CPSR			0 05-08-23		12	FPSAPPROACH SLABS / PARAPET WALLS / BLISTERS / CPSR WAI
		INSTALL DECK OVERLAY ON EXISTING BRIDGE DECK	\$183,679.0		0 05-22-23		30	INSTALL DECK OVERLAY ON EXISTING BRIDGE DECK
		INSTALL BRIDGE RAILING / FENCE	\$183,679.0		0 05-30-23		25	INSTALL BRIDGE RAILING / FENCE
	STAGE 3A	INOTALE BRIDGE RAILING / I LINGE	\$3,729,251				94	■ 11/31/ALE BINDGE INAICH O71 ENGE 01:17-24, STAGE 3A
	ROADWAY WOR	K	\$1,523,573		34 06-30-23		94	▼ 101-17-24, STAGL 3A
		SWITCH TRAFFIC / INSTALL STAGE 3A MOT	\$56,019.0		0 06-30-23		12	SWITCH TRAFFIC / INSTALL STAGE 3A MOT
		MODIFY EXISTING SIGNAL	\$81,605.0				12	I MODIFY EXISTING SIGNAL
		CONSTRUCT BPPS / BARRIER WALL / GUARDRAIL ON 95	\$547,628.0		0 07-17-23		158	- - - - - - - - - -
		INSTALL OH SIGN FOUNDATIONS / OH SIGN STRUCTURES	\$603,525.0		0 08-28-23		158	
		INSTALL STORM DRAINAGE ON 95	\$139,037.0		0 12-06-23		94	☐ INSTALL STORM DRAINAGE ON 95
		FINAL GRADING / STABILIZATION ON 95	\$95,759.0		5 12-20-23		94	FINAL GRADING/ STABILIZATION ON 95
	DEMO	THE STADING OF STADISHEST OF STADISHEST	\$1,010,058		62 05-08-23		0	▼ 01-03-24, DEMO
		DECOMISSION / REMOVE TMS / ITS EQUIPMENT	\$332,331.0		5 12-06-23	_	0	DECOMISSION / REMOVE TMS / IT'S EQUI
	OPTZ3A-17(DEMO EXISTING BRIDGE PARAPETS / DECK / SUBSTRUCTUR			0 07-17-23		12	DEMO EXISTING BRIDGE PARAPETS / DECK / SUBSTRUCT
	OPTZ3A-18(DEMO EXISTING ABUTMENT BACKWALLS / WINGWALLS	\$47,509.0		5 07-24-23		19	DEMO EXISTING ABUTMENT BACKWALLS / WINGWALLS
		DEMO EXISTING JOINTS	\$15,836.0		5 08-07-23		12	D DEMO EXISTING JOINTS
		REHAB EXISTING BEARING ASSEMBLIES	\$551,036.0		0 05-08-23		127	
	SUBSTRUCTUR		\$367,357.0		0 08-14-23		19	▼ 09-11-23, SUBSTRUCTURE
		RECONSTRUCT ABUTMENT BACKWALLS / APPROACH SLAB			0 08-14-23		19	RECONSTRUCT ABUTMENT BACKWALLS / APPROACH
	UTILTIES		\$332,331.0		5 08-14-23		24	▼▼ 09-01-23. UTILTIES
	OPTZ3A-10(INSTALL CONDUITS / JB FOR FUTURE DEVICES	\$332,331.0	00 1	5 08-14-23	09-01-23	24	INSTALL CONDUITS / JB FOR FUTURE DEVICES
	SUPERSTRUCT	JRE	\$495,932.0	00 2	7 08-14-23	09-20-23	12	▼ 09-20-23, SUPERSTRUCTURE
	OPTZ3A-21(RECONSTRUCT BRIDGE JOINTS	\$275,518.0	00 1	5 08-14-23	09-01-23	12	■ RECONSTRUCT BRIDGE JOINTS
	OPTZ3A-22(DECK OVERLAY ON EXISTING BRIDGE	\$220,414.0	00 1	2 09-05-23	09-20-23	12	□ DECK OVERLAY ON EXISTING BRIDGE
	OPTZ3A-23(SHIFT LANES TO STAGE 3B	\$0.00	()	09-20-23	12	◆ SHIFT LANE\$ TO STAGE 3B
	STAGE 3B		\$13,068,818	3.00 23	34 06-30-23	06-06-24	26	▼ 06-06-24, STAGE 3B
	ROADWAY WOR	K	\$1,565,478	.00 8	8 09-21-23	02-01-24	83	▼ 02-01-24, ROADWAY WORK
	OPTZ3B-23(SWITCH TRAFFIC / INSTALL STAGE 3B MOT	\$56,019.0	0 1	0 09-21-23	10-04-23	12	SWITCH TRAFFIC / INSTALL STAGE 3B MOT
	OPTZ3B-24(MODIFY EXISTING SIGNAL TO FINAL CONFIGURATION	\$163,210.0	00 1	0 09-28-23	10-11-23	12	☐ MODIFY EXISTING SIGNAL TO FINAL CONFIGURAT
	OPTZ3B-24 ⁻	DEMO / GRADE WORK FOR SIDEWALK/CURB/PAVEMENT SEC	CTION \$63,840.0	0 1	0 10-05-23	10-18-23	83	□ DEMO / GRADE WORK FOR SIDEWALK/CURB/PAVI
	OPTZ3B-242	INSTALL STORM DRAINAGE - OPITZ BLVD	\$111,230.0	00	3 10-19-23	10-30-23	-23 83	☐ INSTALL STORM DRAINAGE - OPITZ BLVD
	OPTZ3B-24	PLACE AGGREGATE / UNDERDRAIN / CURB & GUTTER - OPT	TIZ BLVD \$343,282.0	\$343,282.00	2 10-31-23	11-15-23	83	D PLACE AGGREGATE / UNDERDRAIN / CURB & C
	OPTZ3B-24	INSTALL PAVEMENT SECTION - OPITZ BLVD	\$143,034.0	00 5	5 11-16-23	11-22-23	83	□ INSTALL PAVEMENT SECTION - OPITZ BLVD
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		Activity Name	Budgeted Total Cost	Dur	Start	Finish		J J					
	ODT700 044		000.							2023 2024 2 N D J F M A M J J A S O N D J F M A M J J A S O N D J			
	ODTZOD CAL	<u>L</u>											
(OP1Z3B-24(MODIFY RAMPS/SIDEWALK AT TELEGRAPH RD	\$146,034.00	8	11-27-23	12-06-23	83			☐ MODIFY RAMPS/SIDEWALK AT TELEGRAPH			
	OPTZ3B-300	INSTALL REMAINING SIGANGE - OPITZ BLVD	\$201,175.00	10	12-07-23	12-20-23	83			☐ IN\$TALL REMAINING SIGANGE - OPITZ BL			
(OPTZ3B-31(BACKFILL RET. WALLS / GRADE & STABILIZE SLOPES/DITCHES - OPITZ BLVD	\$63,840.00	10	12-21-23	01-11-24	83			BACKFILLRET. WALLS / GRADE & STABI			
(OPTZ3B-320	INSTALL GUARDRAIL/HANDRAIL - OPITZ BLVD	\$273,814.00	15	01-12-24	02-01-24	83			☐ INSTALL GUARDRAIL/HANDRAIL - OPI			
SU	IBSTRUCTUR	E	\$4,587,630.00	100	06-30-23	11-20-23	128			▼ 11-20-23, SUBSTRUCTURE			
	OPTZ3B-100	PIER FOUNDATIONS	\$551,036.00	30	06-30-23	08-11-23	39			PIER FOUNDATIONS			
(OPTZ3B-11(PIER STEMS / CAPS	\$551,036.00	30	07-24-23	09-01-23	39			PIER STEMS/CAPS			
(OPTZ3B-120	ABUTMENT A FOUNDATION	\$275,518.00	15	08-07-23	08-25-23	54			□ ABUTMENT À FOUNDATION			
(OPTZ3B-13(ABUTMENT A STEM / BACKWALL	\$275,518.00	15	08-28-23	09-18-23	54			ABUTMENT A STEM / BACKWALL			
(OPTZ3B-140	ABUTMENT A RETAINING WALL	\$1,161,677.00	45	09-19-23	11-20-23	54			ABUTMENT A RETAINING WALL			
(OPTZ3B-15(ABUT B FOUNDATION	\$275,518.00	15	08-14-23	09-01-23	59			ABUT B FOUNDATION			
(OPTZ3B-16(ABUT B STEM / BACKWALL	\$275,518.00	15	09-05-23	09-25-23	59			□ ABUT B \$TEM / BACKWALL			
(OPTZ3B-17(ABUT B RETAINING WALL	\$774,452.00	30	09-26-23	11-06-23	64			ABUT B RETAINING WALL			
(OPTZ3B-29(FPS SLOPE PROTECTION AT ABUTMENTS	\$367,357.00	20	09-26-23	10-23-23	148			FPS SLOPE PROTECTION AT ABUTMENTS			
(OPTZ3B-500	CONCRETE SURFACE / CRACK REPAIRS	\$80,000.00	30	09-26-23	11-06-23	138			CONCRETE SURFACE / CRACK REPAIRS			
UT	TILTIES		\$1,329,324.00	60	10-12-23	01-15-24	12			▼ ▼ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○			
(OPTZ3B-19(INSTALL CONDUITS / JB FOR FUTURE DEVICES	\$332,331.00	15	10-12-23	11-01-23	12			IŅSTALL CONDUITS / JB FOR FÜTURE DEVICES			
(OPTZ3B-28(COMPLETE OH SIGNS / GATES / CABINETS / LIGHTING ON OPITZ/95	\$996,993.00	45	11-02-23	01-15-24	12			COMPLETE OH SIGNS / GATES / CABINI			
SU	JPERSTRUCT	URE	\$5,586,386.00	162	10-12-23	06-06-24	26			V 06-06-24, SUPERSTRUC			
(OPTZ3B-18(COMPLETE BRIDGE MEDIAN / WALLS / ATTENUATOR / GUARDRAIL ON BRIDGE	\$551,036.00	30	10-12-23	11-22-23	12	1		COMPLETE BRIDGE MEDIAN / WALLS / ATTEN			
(OPTZ3B-200	ERECT STRUCTURAL STEEL	\$1,102,071.00	60	12-20-23	03-20-24	0			ERECT STRUCTURAL STEEL			
(OPTZ3B-20 ⁻	INSTALL UNDERBRIDGE CONDUIT SYSTEMS	\$332,331.00	15	01-11-24	01-31-24	0			■ INSTALL UNDERBRIDGE CONDUIT SY			
(OPTZ3B-21(FPS BRIDGE DECKS	\$1,102,071.00	60	01-18-24	04-10-24	0			FPS BRIDGE DECKS			
(OPTZ3B-22(FPS APPROACH SLABS / PARAPET WALLS	\$826,553.00	45	02-15-24	04-17-24	0			FPS APPROACH SLABS / PAR			
(OPTZ3B-22	INSTALL TMS/GATES ON BRIDGE DECK	\$332,331.00	15	02-22-24	03-13-24	0	†j		INSTALL TMS/GATES ON BRIDGE			
(OPTZ3B-222	GROOVING / STRIPING BRIDGE DECKS	\$91,839.00	5	04-18-24	04-24-24	56			☐ GROOVING/STRIPING BRID			
(OPTZ3B-25(INSTALL FENCE / RAILINGS	\$275,518.00	15	04-11-24	05-01-24	19	- i		INSTALL FENCE / RAILINGS			
(OPTZ3B-252	STRIP OVERHANGS / FINAL PATCHING AND RUBBING	\$275,518.00	15	04-18-24	05-08-24	26			STRIP OVERHANGS / FINA			
(OPTZ3B-26(COMPLETE SIGNAL FOR REVERSIBLE RAMP	\$326,421.00	20	04-11-24	05-08-24	46	1		COMPLETE SIGNAL FOR R			
	-	PAINT/COAT STRUCTURAL STEEL/ SUBSTRUCTURE ELEMENTS	\$80,000.00	20	05-09-24	06-06-24	26			PAINT/COAT STRUCTU			
		INSTALL BRIDGE LIGHT POLES	\$290,697.00	20	04-18-24	05-15-24	41			INSTALL BRIDGE LIGHT PO			
		REVERSIBLE RAMP READY TO OPEN	\$0.00	0	011021	05-15-24	41	-		◆ REVERSIBLE RAMP READ			
STAGI		REVERSIBLE TO WIT REVER TO OTEN	\$743,181.00	30	05-02-24	06-13-24	19	i		▼ 06-13-24, \$TAGE 4			
	DADWAY WOR	RK	\$743,181.00	30	05-02-24	06-13-24	19			06-13-24, ROADWAY;W			
		REMOVE REMAIING MOT DEVICES / SHIFT TRAFFIC TO PERMANENT CONFIGURA	\$28,010.00	5	05-02-24	05-08-24	19			☐ REMOVE REMAIING MOT D			
(OPTZ4-1100	FINAL MILLAND OVERLAY/ STRIPING - BRIDGE / OPITZ APPROACHES	\$715,171.00	25	05-09-24	06-13-24	19			FINAL MILLAND OVERI			
REVERS	SIBLE T-RAME		\$6,264,554.00	151	12-06-23	07-15-24	0			▼ 07-15-24, REVERSIE			
STAGI			\$5,013,254.00	151	12-06-23	07-15-24	0			▼ 07-15-24, \$TAGE 3			
TRI	RMP-1000	SAW CUT / DEMO ASPHALT ON 95 / EXPRESS LANE SHOULDERS	\$143,034.00	5	12-06-23	12-12-23	0			SAW CUT/ DEMO ASPHALT ON 95 / EXPRES			
TR!	RMP-1020	INITIAL GRADING FOR REVERSIBLE RAMP WORK	\$63,840.00	10	12-13-23	01-03-24	0	1		IŅITIAL GRADING FOR REVERSIBLE RAN			
TR!	RMP-1080	INSTALL ABUT C FOUNDATION PILES	\$220,414.00	12	01-04-24	01-19-24	0		1 1	INSTALL ABUT C FOUNDATION PILES			
TR	RMP-1100	INSTALL DEEP DRAINAGE PIPE IN MEDIAN 95	\$139,037.00	10	01-04-24	01-17-24	2			☐ INSTALL DEEP DRAINAGE PIPE IN MEDI			
TR	RMP-1200	INSTALL MSE WALLS / DRAINAGE	\$645,376.00	30	01-22-24	03-01-24	0		1 1	INSTALL MSE WALLS / DRAINAGE			
TR/	RMP-1300	FPS ABUT C FTG / STEM	\$367,357.00	25	02-12-24	03-15-24	0			FP\$ ABUT C FTG / STEM			
TR!	RMP-1500	INSTALL MOMENTS SLABS / PARAPET WALLS / BARRIER WALLS	\$774,452.00	28	03-04-24	04-10-24	0			INSTALL MOMENTS \$LABS / P.			
		INSTALL LIGHTING CONDUIT, JB	\$218,022.00	15	03-25-24	04-12-24	16			INSTALL LIGHTING CONDUIT,			
		COMPLETE APPROACH SLAB / PAVEMENT SECTION	\$572,137.00	18	04-11-24	05-06-24	0			COMPLETE APPROACH \$L			

EXHIBIT C	O - INITIAL BASELINE	SCHEDULE	THE 95 EXPRES	SS LANI	ES OPITZ BO	DULEVARD P	ROJECT			SHIRLEY CONTRACTING COMPANY, LLC 07-28-22		
Activity ID		Activity Name	Budgeted Total Cost	Dur	Start	Finish	Total Float	2022 J J A	 S O N I		2023 	2024 2025 J F M A M J J A S O N D J F M
	TRMP-1800	INSTALL GUARDRAIL, SIGNAGE, LIGHT POLES ON REVERSIBLE RAMP	\$290,697.00	18	05-07-24	05-31-24	0					INSTALL GUARDRAIL, SIGNAG
	TRMP-1850	INSTALL ITS/TMS, LIGHTING, SIGNAGE FOUNDATIONS/INFRASTRUCTURE	\$443,108.00	25	12-06-23	01-17-24	0					💻 INSTALL ITS/TM\$, LIGHTING, \$IGNAGE FOUN
	TRMP-1900	INSTALL ITS/TMS EQUIPMENT	\$443,108.00	25	12-20-23	01-31-24	0] [INSTALL ITS/TMS EQUIPMENT
	TRMP-2200	ITS / TMS INTEGRATION / SYSTEM TESTING (LEVEL A)	\$664,662.00	30	02-01-24	03-13-24	0					ITS / TMS INTEGRATION / SYSTEM TES
	TRMP-2300	TMS PROGRAMMING / TMS INTEGRATION (TMS CONTRACTOR) (LEVEL B)	\$0.00	120	03-14-24	07-11-24	0					TM\$ PROGRAMMING / TM
	TRMP-2400	REMOVE MOT DEVICES / SHIFT LANES TO OPEN RAMP	\$28,010.00	4	07-12-24	07-15-24	0					■ REMOVE MOT DEVICES /
	STAGE 4		\$1,251,300.00	55	03-04-24	05-17-24	9					▼ 05-17-24, STAGE 4
	TRMP-3000	INSTALL PAVEMENT SECTION ON 95 / EXPRESS LANE SHLDR WORK AT T-RAMP	\$858,205.00	30	03-04-24	04-12-24	9					INSTALL PAVEMENT SECTION ON 9
	TRMP-3100	INSTALL BARRIER WALL / GUARDRAIL ON 95 / EXPRESS LANE SHLDR WORK AT T	- \$365,085.00	20	04-15-24	05-10-24	9					INSTALL BARRIER WALL/GUARI
	TRMP-3600	REMOVE MOT DEVICES ON 95 / EXPRESS LANES - SHIFT TO FINAL CONFIGURAT	\$28,010.00	5	05-13-24	05-17-24	9					REMOVE MOT DEVICES ON 95 /
	PROJECT CLOSEO	UT	\$1,326,276.84	64	04-15-24	07-15-24	20					▼ 07-15-24, PROJECT CLOS
	PROJECT COMP	LETION	\$1,326,276.84	64	04-15-24	07-15-24	20					V 07-15-24, PRÓJECT COM
	GEN-2450	CLEAN / VIDEO INSPECT STORM PIPE AND UNDERDRAIN	\$200,000.00	25	04-15-24	05-17-24	39					CLEAN / VIDEO INSPECT STORM
	GEN-2500	FINAL MILLAND OVERLAY / STRIPING - 95 / EXPRESS LANES	\$1,001,239.00	30	06-03-24	07-15-24	0					FINAL MILLAND OVERLAY
	GEN-2700	FINAL GRADING / STABILIZATION	\$125,037.84	20	06-03-24	06-28-24	30					FINAL GRADING / STABILIZ

Monthly Payment Schedule and Cash Curve

Monthly Payment Schedule

Period Ending (Month)	Projecte	d Monthly Total:	Pro	jected Cumulative Total:
September 2022	\$	1,579,886	\$	1,579,886
October 2022	\$	1,849,159	\$	3,429,045
November 2022	\$	1,072,060	\$	4,501,105
December 2022	\$	1,764,570	\$	6,265,674
January 2023	\$	3,884,786	\$	10,150,460
February 2023	\$	3,767,429	\$	13,917,889
March 2023	\$	2,465,257	\$	16,383,147
April 2023	\$	1,902,693	\$	18,285,840
May 2023	\$	4,029,892	\$	22,315,732
June 2023	\$	3,552,054	\$	25,867,786
July 2023	\$	3,865,526	\$	29,733,312
August 2023	\$	3,204,136	\$	32,937,448
September 2023	\$	2,935,529	\$	35,872,977
October 2023	\$	1,920,389	\$	37,793,366
November 2023	\$	1,805,221	\$	39,598,587
December 2023	\$	2,017,137	\$	41,615,724
January 2024	\$	1,550,779	\$	43,166,503
February 2024	\$	2,729,302	\$	45,895,805
March 2024	\$	2,720,752	\$	48,616,557
April 2024	\$	2,021,123	\$	50,637,680
May 2024	\$	2,310,147	\$	52,947,827
June 2024	\$	2,670,330	\$	55,618,157
July 2024	\$	1,921,350	\$	57,539,507
August 2024	\$	819,759	\$	58,359,265
September 2024	\$	447,958	\$	58,807,223
October 2024	\$	320,453	\$	59,127,676
	\$	59,127,675.84		

95 Express Lanes Optiz Boulevard Ramp Project SHIRLEY CONTRACTING COMPANY, LLC

