

March 18, 2024

Cindy Terwilliger
Regional Administrator
Federal Transit Administration Region 8 Office
Byron Rogers Federal Building
1961 Stout Street, Suite 13-301
Denver, CO 80294

RE: MidValley Bus Rapid Transit Project Letter of No Prejudice Request

Dear Regional Administrator Terwilliger:

As per the Federal Register Notice re: LONP, Utah Transit Authority (UTA) requests a Letter of No Prejudice (LONP) to begin early construction activities for the MidValley Bus Rapid Transit Project (Project). Full federal funding for the BRT project is not anticipated until later in 2024 and while UTA acknowledges FTA's approval of a LONP is neither an expressed nor an implied commitment that federal dollars will be approved for this project, UTA would still like to move forward with the project and remain in compliance with federal regulations.

This letter will include the following information to outline the needs of the project and justify the request for an LONP:

- Description of activities to be covered by the LONP
- Justification of activities including an assessment of consequences of the project scope, schedule, and budget if the LONP is not approved
- Allocated level of risk and contingency for the requested activities.

Summary of request

UTA is requesting an LONP in the amount of \$14,678,978 to construct critical project elements as follows: (details can be found in **Table 1**).

- Salt Lake Community College Hub Phase 1 Construction of Parking Lot
- Salt Lake Community College Hub Phase 2 Transit Hub Construction
- West Valley Transit Hub Phase 1 Transit Hub
- Station Platforms - 3800 S SB & NB, 4100 S SB, 4500 S NB & SB, 4700 S NB & SB, Atherton E WB, and Sunstone NB
- 4700 S Shoulder and Parkway Construction

The \$14 million requested for the LONP will allow UTA to begin construction in May and continue through the 2024 construction season. Requesting funds for most of 2024 provides a contingency if something delays the FFGA until later in the year.

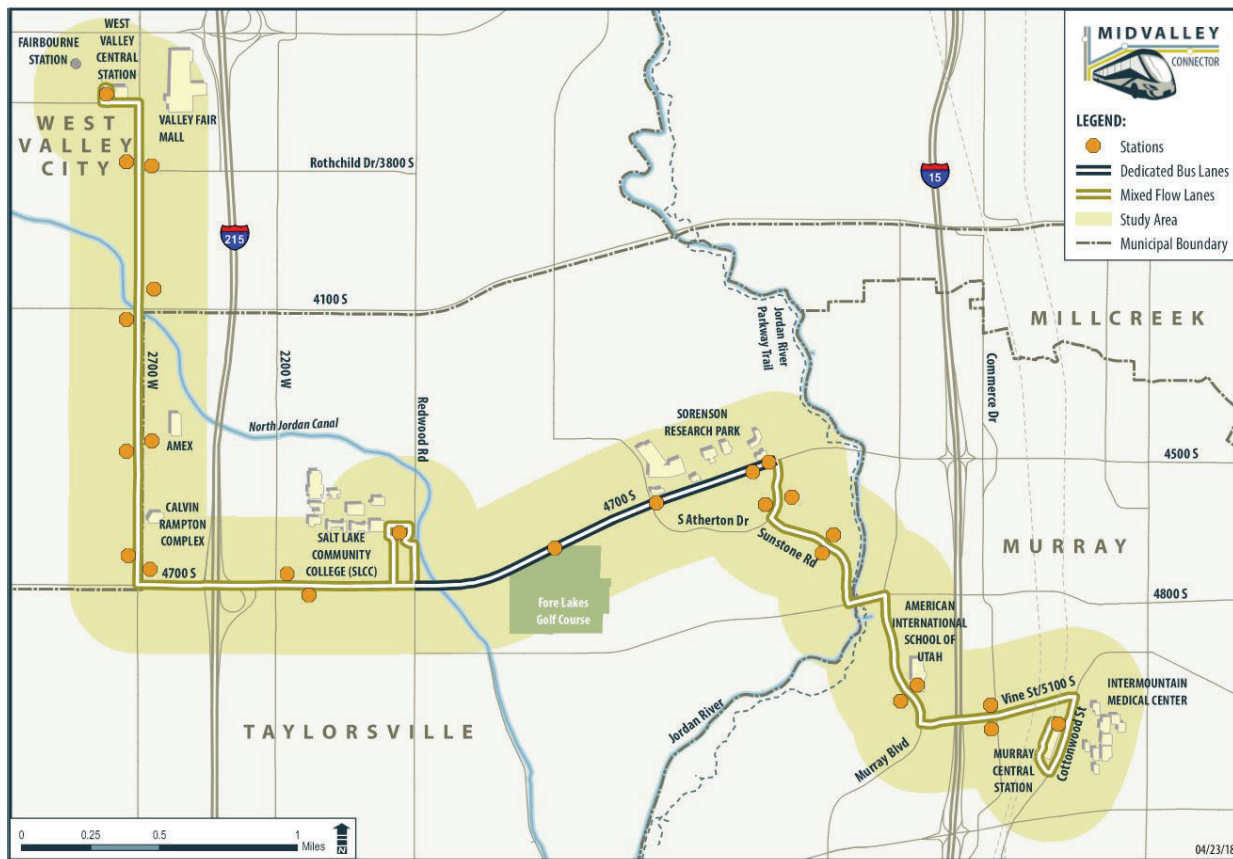
While full federal funding is currently anticipated in June of 2024 (when the construction went out to bid, funding was anticipated for early April), waiting for the funding will reduce the construction season by 70%. This could push the opening from August 2026 to April 2027.

UTA does have access to the state funds that make up the match for this project. These funds can be used while UTA is waiting for federal reimbursement if the LONP is approved. The intent of the LONP is to allow UTA to continue working and preserve the project schedule without jeopardizing federal funding.

Background

This MidValley BRT project will construct a 7.3 mile-long bus rapid transit project from our Murray Central FrontRunner commuter /TRAX station through Taylorsville to the West Valley Central TRAX station with a spur to SLCC. See **Figure 1 – MidValley BRT Alignment**. A locally preferred alternative (LPA) was selected in June 2019 and the project entered Small Starts Project Development in September 2022. A Finding of No Significant Impact was issued in September 2022. In October 2022 FTA allocated \$62.8M of Small Starts funds in fiscal year 2024 funding to this project which has an overall rating of *Medium-High*.

Figure 1 – MidValley BRT Alignment



The Project is being delivered using the Design/Bid/Build delivery method. UTA finalized the construction contract with Stacy and Witbeck, a civil construction contractor, in January 2024.

UTA has issued a Notice to Proceed (NTP) to the contractor for pre-award authority items such as utility and canal work in January 2024 and plan to update the NTP to for all remaining construction items once the grant has been approved. *Authorization of this LONP will allow construction to begin prior to the issuance of the*

grant to allow the project to remain on schedule by completing critical path items, take advantage of the full construction season, and abide by commitments made to property owners.

An executed single year grant agreement (Grant) is currently expected in June 2024 - following additional review from the Project Management Oversight Contractor (PMOC), FTA, additional Administration offices and a 10-day statutory congressional review provided a budget has been allocated for the project. All items required for this review have been submitted to the PMOC who is in the process of drafting the readiness report.

UTA has begun many of the pre-award authority activities for the project:

- Right of Way Acquisitions - Began in September of 2022 for full property acquisitions and partial takes.
- Final design completed July 2022.
- Early utility relocations.
- Relocation of a canal crossing scheduled to begin when water is shut off in the canal March 25, 2024.

Description and justification for proposed LONP activities

UTA is requesting an LONP for costs associated with the start of early construction activities identified in the project schedule in **Attachment 1. Table 1** below provides a list of the activities requested in this LONP, the justification for the work and discusses the impacts to the project cost and schedule. LONP work areas are shown in **Attachment 2**.

The ability to use an LONP to pursue the planned activities listed in **Table 1** is needed to avoid the delay of critical path items that would adversely affect project cost and schedule.

- Commitments made to property owners
 - Salt Lake Community College require that construction begins during the summer session to minimize disruptions to classes.
 - The Prince of Peace Lutheran Church School has requested that the disruption to the playground be completed during the very short window when school is out of session in July and August.
- Limited Construction Season
 - Utah has a limited construction season due to variable winter weather. Any given construction season could be cut short with excessive weather (winter 2022-2023 for example). The ability to begin construction earlier in 2024 ensures that there will be time to complete items before the snow falls.
 - A moratorium on work will be in place during extreme weather, cold and air quality episodes.
- Continuity of Construction Work
 - Stations are the critical path for this project. While we could begin the utility work on stations with pre-award authority, we would have to cover up the utilities we did because we would not be able to seamlessly move on to the next steps. This not only creates a remobilization out to the area, but it will also impact the adjacent property owners by having two disruptions and an incomplete frontage area between construction.



Table 1 – LONP Planned Activities, Justification, and Impacts

Location	Activities	Justification	Impacts
Salt Lake Community College Hub Phase 1 Construction of Parking Lot	Demolition, Underground Utilities, Grading, Concrete Flatwork, Paving, Signing and Pavement Markings	A new parking lot must be constructed to replace parking areas that are being taken to construct the BRT Transit Hub. The ROW agreement requires that this construction be completed during the summer school break due to the reduced pedestrian and vehicular traffic. If this cannot be constructed in the 2024 summer break, the schedule will be delayed until summer of 2025. The delay affects the over all project phasing and has cost escalations impacts.	Increased cost of labor, equipment, and material due to cost escalation for the one year delay, estimated at 5% of the construction cost
Salt Lake Community College Hub Phase 2 Transit Hub Construction	Demolition, Underground Utilities, Grading, Concrete Flatwork, Paving, and Station Construction	The SLCC Campus construction consists of 3 phases that must be constructed in sequence with only minor overlap. The overall schedule for the 3 phases is 1 year. If phase 1 is delayed until the summer of 2025 for the reason provided above, the over all schedule for SLCC will be extended to June of 2026. This will not allow enough time to allow for testing and commissioning for an August 2026 revenue ready date and thus delaying the entire schedule.	Increased cost of labor, equipment, and material due to cost escalation for one year, estimated at 5% Delayed revenue ready date by at least 6 months
West Valley Transit Hub Phase 1 Transit Hub	Demolition, Underground Utilities, Grading, and Station Construction	To balance and fully utilize project construction resources, construction of the West Valley Hub needs to begin as activities are completed on the SLCC Hub. Failure to keep resources utilize will result in additional cost due to, standby, inefficiencies and demobilization and re-mobilization costs.	Constructing multiply hubs simultaneously will require additional resources that will increase construction costs by up to 10%
Station Platforms - 3800 S SB & NB, 4100 S SB, 4500 S NB & SB, 4700 S NB & SB, Atherton E WB, and Sunstone NB	Demolition, Underground Utilities, Grading, Station Construction, Concrete Flatwork and Paving	The construction of the station platforms is the critical path for the project. The timing for constructing the stations is driven by multiple factors including; phasing to avoid concurrent lane closures at 2 adjacent stations, phasing with overall transit hubs and roadway construction, timing of ROW acquisition, and labor/equipment utilization. With these constraints it is not feasible to accelerate the construction of station platforms and therefore a delay in the stations will result in a day for day delay of the overall schedule.	Accelerating the construction of stations by building more simultaneously will increase traffic impacts, potentially require modifications to ROW agreements, and will require additional labor and equipment that will increase construction costs by up to 10%
4700 S Shoulder and Parkway Construction	Demolition, Underground Utilities, Retaining and Privacy Walls, Concrete Flatwork, HMA Paving, and Landscape Irrigation	The construction of 4700 S to add dedicated bus lanes requires 2 consecutive phases to comply with UDOT traffic requirements. The construction of both phases requires 23 months. As such there is only one month of float before the overall project begins being delayed. On the critical path of the 4700 S construction and early in the schedule is the installation of the privacy walls along the north side of the roadway. The ROW agreement with the Prince of Peace Lutheran Church, requires that this privacy wall be install along this parcel while the school is on summer break. If the casting of these custom made panels does not begin by early May, they will not be ready for installation for the 2024 summer break. Missing the 2024 window will cause added cost to remobilize the wall contractor in 2025 along with significant rephasing cost of succeeding activities including construction of the multi use path, irrigation, and landscaping.	Remobilization of privacy wall contractor along with one year of cost escalation for the Prince of Peace parcel. Rephasing/out of sequence construction for the adjacent scopes of work associated with the Prince of Peace parcel. Acceleration costs to maintain the schedule at up to 10% or a delay to the Revenue Ready date of six months to one year.

One of the biggest unknowns is when we will actually receive the FFGA. The contract went out to bid with the assumption that the federal funding would be available in April 2024. As of today, we anticipate the funding may be available in late June 2024, however, if that time frame doesn't occur, it would push the start of all these activities until award of the Grant and would delay planned project opening at a minimum from August 2026 to April. The later in 2024 the grant is awarded, the more the 2024 construction season is reduced.

Table 2 summarizes the Project cost impacts that would occur if work is delayed. These costs were based on 5% increase of all construction costs including administration and oversight. 5% was used as a general inflation factor to all items of work and materials. This inflation factor is an estimate that could vary over the time the delay occurs. The actual length of the delay can only be estimated based on today's knowledge so costs are estimates.

Specific line items that could potentially increase with the addition of a year for construction vary from all owner furnished items to fuel items. On the OGX project we saw an increase in fuel of 200% over 6 months.



Every line item would have cost increases because of how the schedule was built to accommodate the schools and the property owners to have the most efficient construction possible.

Table 2 – Potential Cost Impacts

	Project Construction Cost under Baseline Schedule, with an LONP (April 2024)	Project Construction Cost if Critical Path Work Delayed until Grant Awarded
Year of Expenditure Costs	\$67,100,000	\$70,300,000
Increased Costs over Baseline with Delay		\$3,200,000
Rate of Change from Baseline		4.8%

Risk and Contingency activities

A Risk and Cost Review was conducted from December 2023 for the Project. FTA, the Project Management Oversight Consultant and UTA discussed and agreed upon the acceptability of allocated risk and contingency for the Project. Additional unanticipated risk must be considered as the FFGA pushes.

- 2024 Construction Season reducing
 - It was never anticipated that the majority of a 2024 construction season would be impacted. The contingency submitted in the last round of reviews with the PMOC for the schedule was based on obtaining funding in June 2024. (The construction was bid out with the assumption the FFGA would be awarded in early April 2024). The further into the construction season before the FFGA is awarded the more the 2024 construction season reduces, pushing the project further out into the future.
- ‘Not Meeting Community Expectations’.
 - The community initially thought the project would kick off in 2023, and then were notified it was a 2024 project. Pushing again could create the need to redo right of way agreements.
- Cost impacts for missing a construction season.
 - By pushing this project one construction season into the future could increase overall costs. These costs are estimated currently at approximately 5% per year. However, inflation is variable and those items could escalate over and above our contingency. State and Owner furnished materials can increase in costs as well as administrative costs that go along with the extra time.

The project has planned for over \$9million in contingency. Without receiving an LONP, the contingency available for other items reduces to \$6million.



Standard Cost Category (SCC) Workbook

The Project has an estimated total cost of \$104M in Year of Expenditure (YOE) dollars. This cost includes \$74,355,000 for construction. A copy of the SCC Workbook is included with this letter as **Attachment 3**.

The cost breakdown of the direct activities associated with this LONP request is derived from the contractor as shown in summary in **Table 3** below and in detail in Attachment 3. The total LONP contractor construction costs are shown in **Attachment 4**. The LONP request is the amount needed to build during the entire 2024 construction season. This estimate allows for unanticipated delays with the FFGA and will keep construction moving until the grant is awarded.

Table 3 –LONP Summary Cost Breakdown

SCC #	DESCRIPTION	TOTAL COST	TOTAL LONP	% of Cost
10	GUIDEWAY & TRACK ELEMENTS	\$ 9,824,000	\$ 583,260	6%
20	STATIONS, STOPS, TERMINALS, INTERMODAL	\$ 12,280,000	\$ 1,179,139	10%
40	SITWORK & SPECIAL CONDITIONS	\$ 42,981,000	\$ 9,596,939	22%
50	SYSTEMS	\$ 9,270,000	\$ 1,269,640	14%
	CONSTRUCTION TOTAL	\$ 74,355,000	\$ 12,628,978	17%
60	RIGHT OF WAY	\$ 3,563,000	\$ -	0%
80	PROFESSIONAL SERVICES	\$ 17,148,000	\$ 700,000	4%
90	CONTINGENCY	\$ 9,046,000	\$ 1,350,000	15%
	TOTAL	\$ 104,112,000	\$ 14,678,978	14%

Source of Funds

The Project's local funds total \$41,312,000 which includes \$2,370,000 of land donations. The remaining \$62,800,000 is anticipated from the FTA 5309 Capital Investment Grant Small Starts Program. Local sources include:


- UTA Local Sales Tax \$2,642,000
- State Transit Transportation Investment Fund - \$22,800,000
- WFRC STP \$2,000,000
- HB 43354 \$11,000,000
- SB 277 \$500,000
- West Valley City Land Donation \$370,000
- SLCC Land Donation \$1,000,000
- UDOT Land Donation \$1,000,000

We appreciate FTA's review of this request as these components are critical to reduce overall risk to the project schedule and cost. Please contact Dave Hancock Chief Capital Service Officer with any questions regarding this information, at 801-227-3671 dhancock@rideuta.com.



Sincerely,

DocuSigned by:



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3/18/2024

Jay Fox

Executive Director

DocuSigned by:



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3/18/2024

Mike Bell

UTA Legal Counsel

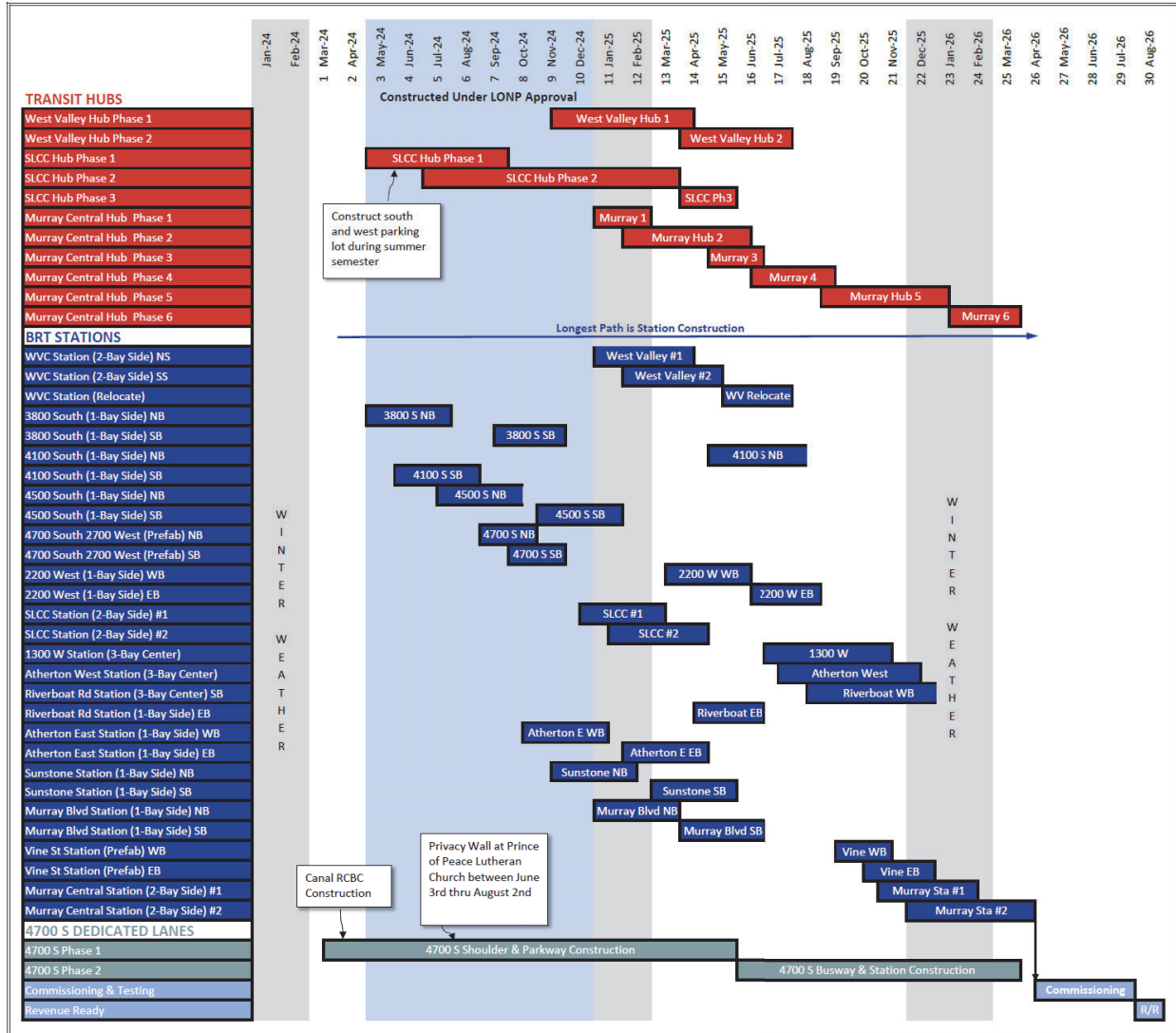
Attachments (4)

- 1- Project Schedule with LONP awarded
- 2- LONP Project Work Areas Map
- 3- Standard Cost Categories (SCC) Workbook
- 4- LONP Contractor Construction Costs

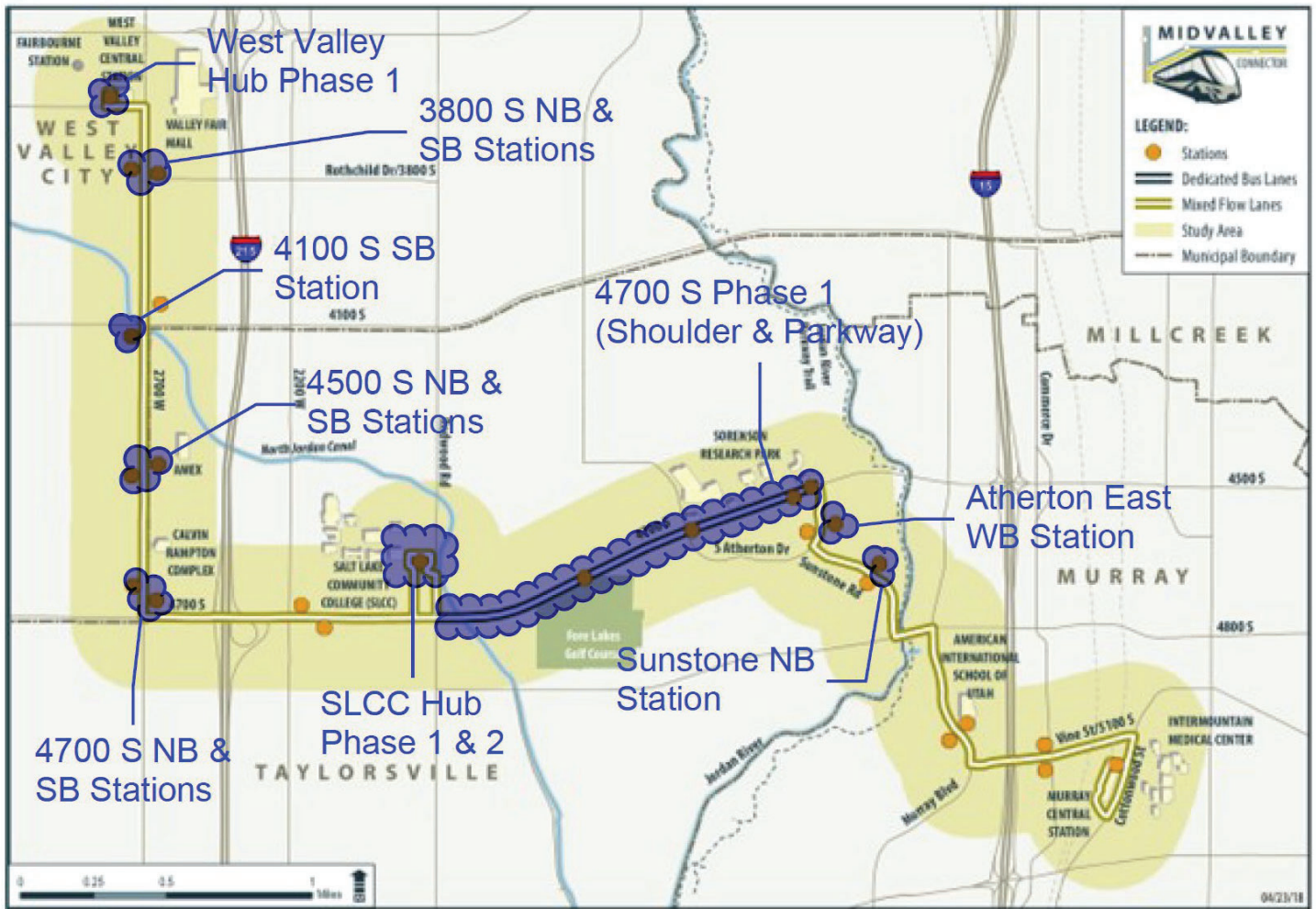
cc: David Beckhouse, FTA Region 8
Tiffany Gallegos, FTA Region 8
Mark Ferroni, FTA Headquarters
Sara Redd, FTA Headquarters
Kristina Evanoff, FTA Region 8
Tracy Young, UTA
Jared Scarbrough, UTA
Dave Hancock, UTA



Attachment 1 Project Schedule With LONP awarded



Attachment 2 LONP Project Work Areas



Areas highlighted are the work areas in the proposed LONP



Attachment 3 SCC Workbook

MAIN WORKSHEET - BUILD ALTERNATIVE (Rev.23, May 2022)								
Utah Transit Authority					Today's Date	2/9/24		
Midvalley Connector BRT					Yr of Base Year \$	2023		
Application for SSGA					Yr of Revenue Ops	2027		
	Quantity	Base Year Dollars w/o Contingency (X000)	Base Year Dollars Allocated Contingency (X000)	Base Year Dollars TOTAL (X000)	Base Year Dollars Unit Cost (X000)	Base Year Dollars Percentage of Construction Cost	Base Year Dollars Percentage of Total Project Cost	YOE Dollars Total (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	7.00	8,000	800	8,800	\$1,257	13%	9%	9,824
10.01 Guideway: At-grade exclusive right-of-way				0				0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	7.00	8,000	800	8,800	\$1,257			9,824
10.03 Guideway: At-grade in mixed traffic				0				0
10.04 Guideway: Aerial structure				0				0
10.05 Guideway: Built-up fill				0				0
10.06 Guideway: Underground cut & cover				0				0
10.07 Guideway: Underground tunnel				0				0
10.08 Guideway: Retained cut or fill				0				0
10.09 Track: Direct fixation				0				0
10.10 Track: Embedded				0				0
10.11 Track: Ballasted				0				0
10.12 Track: Special (switches, turnouts)				0				0
10.13 Track: Vibration and noise dampening				0				0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	15	10,000	1,000	11,000	\$733	17%	12%	12,280
20.01 At-grade station, stop, shelter, mall, terminal, platform	15	10,000	1,000	11,000	\$733			12,280
20.02 Aerial station, stop, shelter, mall, terminal, platform				0				0
20.03 Underground station, stop, shelter, mall, terminal, platform				0				0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.				0				0
20.05 Joint development				0				0
20.06 Automobile parking multi-story structure				0				0
20.07 Elevators, escalators				0				0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	7.00	0	0	0	\$0	0%	0%	0
30.01 Administration Building: Office, sales, storage, revenue counting				0				#DIV/0!
30.02 Light Maintenance Facility				0				#DIV/0!
30.03 Heavy Maintenance Facility				0				#DIV/0!
30.04 Storage or Maintenance of Way Building				0				#DIV/0!
30.05 Yard and Yard Track				0				#DIV/0!
40 SITEWORK & SPECIAL CONDITIONS	7.00	35,000	3,500	38,500	\$5,500	58%	41%	42,981
40.01 Demolition, Clearing, Earthwork		3,000	300	3,300				3,684
40.02 Site Utilities, Utility Relocation		7,000	700	7,700				8,596
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments				0				0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks				0				0
40.05 Site structures including retaining walls, sound walls		3,000	300	3,300				3,684
40.06 Pedestrian / bike access and accommodation, landscaping		5,000	500	5,500				6,140
40.07 Automobile, bus, van accessways including roads, parking lots		4,000	400	4,400				4,912
40.08 Temporary Facilities and other indirect costs during construction		13,000	1,300	14,300				15,964
50 SYSTEMS	7.00	7,500	750	8,250	\$1,179	12%	9%	9,270
50.01 Train control and signals				0				0
50.02 Traffic signals and crossing protection		1,500	150	1,650				1,854
50.03 Traction power supply: substations		2,500	250	2,750				3,090
50.04 Traction power distribution: catenary and third rail				0				0
50.05 Communications		3,500	350	3,850				4,326
50.06 Fare collection system and equipment				0				0
50.07 Central Control				0				0
Construction Subtotal (10 - 50)	7.00	60,500	6,050	66,550	\$9,507	100%	71%	74,355
60 ROW, LAND, EXISTING IMPROVEMENTS	7.00	3,000	500	3,500	\$500		4%	3,563
60.01 Purchase or lease of real estate		3,000	500	3,500				3,563
60.02 Relocation of existing households and businesses				0				0
70 VEHICLES (number)	0	0	0	0			0%	0
70.01 Light Rail				0				#DIV/0!
70.02 Heavy Rail				0				#DIV/0!
70.03 Commuter Rail				0				#DIV/0!
70.04 Bus				0				#DIV/0!
70.05 Other				0				#DIV/0!
70.06 Non-revenue vehicles				0				#DIV/0!
70.07 Spare parts				0				#DIV/0!
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	7.00	14,950	758	15,708	\$2,244	24%	17%	17,148
80.01 Project Development		4,000	27	4,027				4,396
80.02 Engineering (not applicable to Small Starts)								
80.03 Project Management for Design and Construction		3,300	220	3,520				3,843
80.04 Construction Administration & Management		6,500	434	6,934				7,570
80.05 Professional Liability and other Non-Construction Insurance		100	7	107				116
80.06 Legal, Permits; Review Fees by other agencies, cities, etc.		300	20	320				349
80.07 Surveys, Testing, Investigation, Inspection		300	20	320				349
80.08 Start up		450	30	480				524
Subtotal (10 - 80)	7.00	78,450	7,308	85,758	\$12,251		91%	95,066
90 UNALLOCATED CONTINGENCY				8,160			9%	9,046
Subtotal (10 - 90)	7.00			93,918	\$13,417		100%	104,112
100 FINANCE CHARGES				0			0%	0
Total Project Cost (10 - 100)	7.00			93,918	\$13,417		100%	104,112
Allocated Contingency as % of Base Yr Dollars w/o Contingency								9.32%
Unallocated Contingency as % of Base Yr Dollars w/o Contingency								10.40%
Total Contingency as % of Base Yr Dollars w/o Contingency								19.72%
Unallocated Contingency as % of Subtotal (10 - 80)								9.52%



Attachment 4
LONP Contractor Construction Cost

SCC #	ITEM No.	PAY ITEM NO.	DESCRIPTION	UOM	Total Cost			LONP Cost		
					QTY	UP	TOTAL	QTY	TOTAL	% of Cost
10	GUIDEWAY & TRACK ELEMENTS						\$ 7,826,716.00		\$ 583,260.00	7%
10.02	GUIDEWAY: AT-GRADE IN MIXED TRAFFIC						\$ 7,826,716.00		\$ 583,260.00	7%
10.02	1000	020567015	Granular Borrow (Plan Quantity)	Cubic Yard	14,332.00	74.00	\$ 1,060,568.00	463.00	\$ 34,262.00	3%
10.02	1010	020567020	Granular Borrow	Ton	7,717.00	22.00	\$ 169,774.00	-	-	0%
10.02	1020	020757010	Separation Geotextiles	Square Yard	42,999.00	1.00	\$ 42,999.00	-	-	0%
10.02	1025	023167020	Roadway Excavation (Plan Quantity)	Cubic Yard	35,229.00	47.00	\$ 1,655,763.00	8,529.00	\$ 400,863.00	24%
10.02	1030	023167025	Roadway Excavation (Unsuitable)	Cubic Yard	4,234.00	32.00	\$ 135,488.00	-	-	0%
10.02	1040	027217020	Untreated Base Course (Plan Quantity)	Cubic Yard	9,436.00	92.00	\$ 868,112.00	723.00	\$ 66,516.00	8%
10.02	1050	027417050	HMA - 1/2 inch	Ton	16,818.00	122.00	\$ 2,051,796.00	653.00	\$ 79,666.00	4%
10.02	1060	027527008	Portland Cement Concrete Pavement 8 Inch Thick	Square Yard	1,090.00	137.00	\$ 149,330.00	-	-	0%
10.02	1070	027767007	Concrete Curb Type B4	Foot	434.00	56.00	\$ 24,304.00	-	-	0%
10.02	1080	027767017	Concrete Curb Type B5	Foot	2,246.00	31.00	\$ 69,626.00	-	-	0%
10.02	1090	027767025	Concrete Curb and Gutter Type B1	Foot	232.00	125.00	\$ 29,000.00	-	-	0%
10.02	1100	027767035	Concrete Curb and Gutter Type M1	Foot	12,756.00	48.00	\$ 612,288.00	-	-	0%
10.02	1110	027767036	Concrete Curb and Gutter Type M1 (Special)	Foot	31.00	63.00	\$ 1,953.00	31.00	\$ 1,953.00	100%
10.02	1120	027767100	Plowable End Section	Each	10.00	3,220.00	\$ 32,200.00	-	-	0%
10.02	1130	028437010	Crash Cushion Type B (MASH)	Each	7.00	33,000.00	\$ 231,000.00	-	-	0%
10.02	1140	028447030	Cast-in-Place Concrete Constant Slope Barrier - 42 Inch	Foot	4,915.00	130.00	\$ 638,950.00	-	-	0%
10.02	1150	028447330	Cast-in-Place Concrete Constant Slope Half Barrier - 42 Inch	Foot	168.00	286.00	\$ 48,048.00	-	-	0%
10.02	1160	029637010	Profile Rotomilling	Square Yard	613.00	9.00	\$ 5,517.00	-	-	0%
20	STATIONS, STOPS, TERMINALS, INTERMODAL						\$ 9,513,350.00		\$ 1,179,139.00	12%
20.01	AT-GRADE STATION, STOP, SHELTER, MALL, TERMINAL, PLATFORM						\$ 9,513,350.00		\$ 1,179,139.00	12%
20.01	1170	022217205	Relocate Canopy Structure	Each	1.00	70,000.00	\$ 70,000.00	-	-	0%
20.01	1180	027731000	Station Docking Guide Strip	Foot	359.00	125.00	\$ 44,875.00	-	-	0%
20.01	1190	028881000	Real Time Sign	Each	27.00	1,200.00	\$ 32,400.00	4.00	\$ 4,800.00	15%
20.01	1200	028881005	Station Map Display	Each	25.00	316.00	\$ 7,900.00	4.00	\$ 1,264.00	16%
20.01	1210	028881010	Station Name Sign	Each	25.00	1,000.00	\$ 25,000.00	4.00	\$ 4,000.00	16%
20.01	1220	088001005	Station Windscreen Glass (Clear Side)	Square Foot	299.00	500.00	\$ 149,500.00	33.00	\$ 16,500.00	11%
20.01	1230	088001010	Station Windscreen Glass (Clear Back)	Square Foot	2,211.00	125.00	\$ 276,375.00	189.00	\$ 23,625.00	9%
20.01	1240	088001020	Station Windscreen Glass (Art Back)	Square Foot	2,211.00	135.00	\$ 298,485.00	-	-	0%
20.01	1250	088002000	Station Windscreen Mullions	Foot	1,197.00	250.00	\$ 299,250.00	108.00	\$ 27,000.00	9%
20.01	1260	129341001	Bench (Canopy)	Each	43.00	425.00	\$ 18,275.00	-	-	0%
20.01	1270	129341002	Bench (Temporary)	Each	12.00	400.00	\$ 4,800.00	-	-	0%
20.01	1280	129341003	Trash Receptacle	Each	37.00	420.00	\$ 15,540.00	-	-	0%
20.01	1290	172400005	Prefabricated Bus Shelter (5'X8')	Each	3.00	6,000.00	\$ 18,000.00	2.00	\$ 12,000.00	67%
20.01	1300	172400010	Prefabricated Bus Shelter (8'X11')	Each	9.00	7,000.00	\$ 63,000.00	-	-	0%
20.01	1310	174251000	Operator Restroom (Driver Relief Building)	Each	2.00	240,000.00	\$ 480,000.00	0.50	\$ 120,000.00	25%
20.01	1320	174321001	Station Canopy Columns (1-Bay)	Each	16.00	32,000.00	\$ 512,000.00	4.00	\$ 128,000.00	25%
20.01	1330	174321002	Station Canopy Columns (2-Bay)	Each	6.00	50,500.00	\$ 303,000.00	-	-	0%
20.01	1340	174321003	Station Canopy Columns (3-Bay)	Each	3.00	88,400.00	\$ 265,200.00	-	-	0%
20.01	1350	174322001	Station Canopy Frame (1-Bay)	Each	16.00	30,300.00	\$ 484,800.00	4.00	\$ 121,200.00	25%
20.01	1360	174322002	Station Canopy Frame (2-Bay)	Each	6.00	51,600.00	\$ 309,600.00	-	-	0%
20.01	1370	174322003	Station Canopy Frame (3-Bay)	Each	3.00	81,900.00	\$ 245,700.00	-	-	0%
20.01	1380	174323001	Station Canopy Finish (1-Bay)	Each	16.00	10,100.00	\$ 161,600.00	3.00	\$ 30,300.00	19%
20.01	1390	174323002	Station Canopy Finish (2-Bay)	Each	6.00	17,200.00	\$ 103,200.00	-	-	0%
20.01	1400	174323003	Station Canopy Finish (3-Bay)	Each	3.00	27,300.00	\$ 81,900.00	-	-	0%
20.01	1410	174324001	Station Flatwork (1-Bay)	Each	17.00	22,000.00	\$ 374,000.00	4.00	\$ 88,000.00	24%
20.01	1420	174324002	Station Flatwork (2-Bay)	Each	6.00	29,000.00	\$ 174,000.00	-	-	0%
20.01	1430	174324002	Station Flatwork (3-Bay)	Each	3.00	49,000.00	\$ 147,000.00	-	-	0%
20.01	1440	174325000	Station Mockup	Lump	1.00	38,000.00	\$ 38,000.00	-	-	0%
20.01	1450	174501001	Station Electrical (1-Bay)	Each	16.00	161,400.00	\$ 2,582,400.00	3.00	\$ 484,200.00	19%
20.01	1460	174501002	Station Electrical (2-Bay)	Each	6.00	112,400.00	\$ 674,400.00	-	-	0%
20.01	1470	174501003	Station Electrical (3-Bay)	Each	3.00	168,000.00	\$ 504,000.00	-	-	0%
20.01	1480	174501004	Station Electrical (Prefab)	Each	9.00	50,800.00	\$ 457,200.00	2.00	\$ 101,600.00	22%
20.01	1490	174501010	Station Electrical (Modify Existing Network Cabinet)	Each	2.00	7,000.00	\$ 14,000.00	-	-	0%
20.01	1500	174501050	Station Canopy Snow Melt (Electric)	Each	25.00	5,550.00	\$ 138,750.00	3.00	\$ 16,650.00	12%
20.01	1510	174501070	Station Platform Snow Melt (Hydronic)	Each	3.00	46,400.00	\$ 139,200.00	-	-	0%
40	SITELWORK & SPECIAL CONDITIONS						\$ 26,112,216.00		\$ 9,596,938.88	37%
40.01	DEMOLITION, CLEARING, EARTHWORK						\$ 1,810,803.50		\$ 763,460.00	42%
40.01	1520	015717026	Check Dam - Fiber Roll	Each	3.00	2,170.00	\$ 6,510.00	1.00	\$ 2,170.00	33%
40.01	1530	015717030	Silt Fence	Foot	16,463.00	6.00	\$ 98,778.00	5,000.00	\$ 30,000.00	30%
40.01	1540	015717076	Drop-Inlet Barrier - Fiber Roll	Each	46.00	300.00	\$ 13,800.00	10.00	\$ 3,000.00	22%
40.01	1550	015717100	Gutter-Inlet Barrier	Each	106.00	300.00	\$ 31,800.00	20.00	\$ 6,000.00	19%
40.01	1560	015717116	Pipe-Inlet Barrier-Fiber Roll	Each	3.00	1,450.00	\$ 4,350.00	1.00	\$ 1,450.00	33%
40.01	1570	015717130	Stabilized Construction Entrance	Each	4.00	10,400.00	\$ 41,600.00	2.00	\$ 20,800.00	50%
40.01	1580	020570001	Granular Borrow APWA (Plan Quantity)	Cubic Yard	2,718.00	71.00	\$ 192,978.00	320.00	\$ 22,720.00	12%
40.01	1590	022217050	Remove Tree	Each	143.00	490.00	\$ 70,070.00	103.00	\$ 50,470.00	72%
40.01	1600	022217080	Remove Fence	Foot	4,628.00	9.00	\$ 41,652.00	3,273.00	\$ 29,457.00	71%
40.01	1610	022217110	Remove Concrete Sidewalk	Square Yard	5,752.00	8.00	\$ 46,016.00	2,636.00	\$ 21,088.00	46%
40.01	1620	022217115	Remove Concrete Driveway	Square Yard	309.00	20.00	\$ 6,180.00	132.00	\$ 2,640.00	43%
40.01	1630	022217120	Remove Concrete Curb	Foot	3,589.00	11.00	\$ 39,479.00	47.00	\$ 517.00	1%
40.01	1640	022217125	Remove Concrete Curb and Gutter	Foot	10,002.00	9.00	\$ 90,018.00	6,689.00	\$ 60,201.00	67%
40.01	1650	022217150	Remove Concrete Pavement	Square Yard	2,869.00	16.00	\$ 45,904.00	67.00	\$ 1,072.00	2%
40.01	1660	022217165	Remove Asphalt Pavement	Square Yard	45,830.00	14.00	\$ 641,620.00	24,027.00	\$ 336,378.00	52%
40.01	1670	022217170	Remove Precast Concrete Barrier	Foot	100.00	30.00	\$ 3,000.00	100.00	\$ 3,000.00	100%
40.01	1680	022217191	Remove Concrete Waterway	Each	14.00	950.00	\$ 13,300.00	10.00	\$ 9,500.00	71%
40.01	1690	022217192	Remove Bench	Each	5.00	300.00	\$ 1,500.00	3.00	\$ 900.00	60%
40.01	1700	022217193	Remove Trash Enclosure	Each	1.00	2,200.00	\$ 2,200.00	-	-	0%
40.01	1710	022217194	Remove Seat Wall	Foot	38.00	150.00	\$ 5,700.00	-	-	0%
40.01	1720	022217195	Remove Privacy Wall	Foot	142.00	70.00	\$ 9,940.00	-	-	0%
40.01	1730	022217196	Remove Light	Each	3.00	3,000.00	\$ 9,000.00	2.00	\$ 6,000.00	67%
40.01	1740	022217197	Remove Concrete Flatwork	Square Foot	3,589.00	1.50	\$ 5,383.50	23.00	\$ 34.50	1%
40.01	1750	022217198	Remove Concrete Planter Box	Each	4.00	400.00	\$ 1,600.00	4.00	\$ 1,600.00	100%
40.01	1760	022217199	Remove Concrete Wall	Foot	247.00	50.00	\$ 12,350.00	200.00	\$ 10,000.00	81%
40.01	1770	022217200	Relocate Bike Rack	Each	13.00	225.00	\$ 2,925.00	6.50	\$ 1,462.50	50%
40.01	1780	022217201	Relocate Flag Pole	Each	1.00	1,150.00	\$ 1,150.00	-	-	0%
40.01	1790	022217202	Relocate Electronic Sign Assembly	Each	2.00	2,500.00	\$ 5,000.00	-	-	0%
40.01	1800	022217203	Relocate Locker	Each	1.00	600.00	\$ 600.00	-	-	0%

Attachment 4
LONP Contractor Construction Cost

SCC #	ITEM No.	PAY ITEM NO.	DESCRIPTION	UOM	Total Cost			LONP Cost		
					QTY	UP	TOTAL	QTY	TOTAL	% of Cost
40.01	1810	022217209	Remove Bus Shelter	Each	6.00	7,500.00	\$ 45,000.00	-	\$ -	0%
40.01	1820	022317010	Clearing and Grubbing	Lump	1.00	286,000.00	\$ 286,000.00	0.50	\$ 143,000.00	50%
40.01	1830	023167041	Excavation (Type 1)	Cubic Yard	480.00	55.00	\$ 26,400.00	-	\$ -	0%
40.01	1840	023167042	Excavation (Type 2)	Cubic Yard	30.00	300.00	\$ 9,000.00	-	\$ -	0%
40.02			SITE UTILITIES, UTILITY RELOCATION				\$ 4,631,984.00		\$ 3,124,997.00	67%
40.02	1850	018927010	Reconstruct Catch Basin	Each	19.00	3,000.00	\$ 57,000.00	14.00	\$ 42,000.00	74%
40.02	1860	018927050	Reconstruct Manhole	Each	13.00	3,500.00	\$ 45,500.00	12.00	\$ 42,000.00	92%
40.02	1870	022217025	Remove Manhole	Each	2.00	1,700.00	\$ 3,400.00	2.00	\$ 3,400.00	100%
40.02	1880	022217030	Remove Catch Basin	Each	22.00	900.00	\$ 19,800.00	22.00	\$ 19,800.00	100%
40.02	1890	022217095	Remove Pipe	Foot	3,677.00	55.00	\$ 202,235.00	3,500.00	\$ 192,500.00	95%
40.02	1900	022217186	Abandon Pipe	Foot	194.00	58.00	\$ 11,252.00	-	\$ -	0%
40.02	1910	026107189	Drainage Pipe - 30 Inch, Metal, Silt Tight	Foot	5.00	2,200.00	\$ 11,000.00	5.00	\$ 11,000.00	100%
40.02	1920	026107300	Drainage Pipe - 23 x 14 inch, Reinforced Concrete, Silt-Tight	Foot	98.00	390.00	\$ 38,220.00	98.00	\$ 38,220.00	100%
40.02	1930	026107302	Drainage Pipe - 30 x 19 inch, Reinforced Concrete, Silt-Tight	Foot	22.00	655.00	\$ 14,410.00	-	\$ -	0%
40.02	1940	026107382	Drainage Pipe - 12 inch, Smooth, Leak-Resistant	Foot	62.00	175.00	\$ 10,850.00	-	\$ -	0%
40.02	1950	026107384	Drainage Pipe - 15 inch, Smooth, Leak-Resistant	Foot	483.00	165.00	\$ 79,695.00	373.00	\$ 61,545.00	77%
40.02	1960	026107386	Drainage Pipe - 18 inch, Smooth, Leak-Resistant	Foot	4,088.00	200.00	\$ 817,600.00	4,088.00	\$ 817,600.00	100%
40.02	1970	026107398	Drainage Pipe - 8 inch, Thermoplastic, Leak-Resistant	Foot	87.00	572.00	\$ 49,764.00	87.00	\$ 49,764.00	100%
40.02	1980	026107399	Drainage Pipe - 12 Inch, Thermoplastic, Leak-Resistant	Foot	4.00	575.00	\$ 2,300.00	4.00	\$ 2,300.00	100%
40.02	1990	026107613	Drainage Pipe - 12 inch, Reinforced Concrete, Leak Resistant	Foot	67.00	170.00	\$ 11,390.00	67.00	\$ 11,390.00	100%
40.02	2000	026107614	Drainage Pipe - 15 inch, Reinforced Concrete, Leak Resistant	Foot	139.00	140.00	\$ 19,460.00	139.00	\$ 19,460.00	100%
40.02	2010	026107616	Drainage Pipe - 18 inch, Reinforced Concrete, Leak Resistant	Foot	286.00	193.00	\$ 55,198.00	286.00	\$ 55,198.00	100%
40.02	2020	026107618	Drainage Pipe - 24 inch, Reinforced Concrete, Leak Resistant	Foot	90.00	156.00	\$ 14,040.00	90.00	\$ 14,040.00	100%
40.02	2030	026337025	Manhole Riser	Each	3.00	16,400.00	\$ 49,200.00	-	\$ -	0%
40.02	2040	026337030	4 Foot Standard Manhole - CB 11	Each	2.00	8,400.00	\$ 16,800.00	1.00	\$ 8,400.00	50%
40.02	2050	026337120	Concrete Drainage Structure 3 ft to 5 ft Deep - CB 9	Each	46.00	4,900.00	\$ 225,400.00	42.00	\$ 205,800.00	91%
40.02	2060	026337130	Concrete Drainage Structure 5 ft to 7 ft deep - CB 9	Each	11.00	6,200.00	\$ 68,200.00	10.00	\$ 62,000.00	91%
40.02	2070	026337140	Concrete Drainage Structure 7 ft to 9 ft deep - CB 9	Each	8.00	7,800.00	\$ 62,400.00	8.00	\$ 62,400.00	100%
40.02	2080	026337200	Concrete Drainage Structure 3 ft to 5 ft Deep - CB 12	Each	16.00	5,500.00	\$ 88,000.00	16.00	\$ 88,000.00	100%
40.02	2090	026337380	Concrete Drainage Structure Shallow Catch Basin - CB 3	Each	2.00	3,900.00	\$ 7,800.00	2.00	\$ 7,800.00	100%
40.02	2100	026341001	Concrete Drainage Structure Murray Catch Basin Details C-3	Each	4.00	4,400.00	\$ 17,600.00	-	\$ -	0%
40.02	2110	026341002	Concrete Drainage Structure APWA 315 Single	Each	3.00	4,200.00	\$ 12,600.00	3.00	\$ 12,600.00	100%
40.02	2120	026341003	Concrete Drainage Structure APWA 331, Type A	Each	3.00	4,200.00	\$ 12,600.00	3.00	\$ 12,600.00	100%
40.02	2130	026341004	Concrete Drainage Structure WVC 316	Each	1.00	7,800.00	\$ 7,800.00	1.00	\$ 7,800.00	100%
40.02	2140	026341005	Concrete Drainage Structure WVC 331	Each	1.00	7,300.00	\$ 7,300.00	1.00	\$ 7,300.00	100%
40.02	2150	026357030	Manhole Cover and Frame - Solid	Each	4.00	190.00	\$ 760.00	1.00	\$ 190.00	25%
40.02	2160	026357040	Rectangular Grate and Frame - Bicycle Safe	Each	68.00	1,100.00	\$ 74,800.00	8.00	\$ 8,800.00	12%
40.02	2170	027770005	Concrete 4 Foot Waterway (APWA)	Foot	40.00	138.00	\$ 5,520.00	-	\$ -	0%
40.02	2180	027770006	Concrete Waterway Transition Structure (APWA)	Square Foot	61.00	30.00	\$ 1,830.00	-	\$ -	0%
40.02	2190	027770007	Concrete Waterway Transition Structure (WVC)	Square Foot	282.00	30.00	\$ 8,460.00	-	\$ -	0%
40.02	2200	16525701D	Highway Lighting System (WVC)	Lump	1.00	187,900.00	\$ 187,900.00	-	\$ -	0%
40.02	2210	16525702D	Highway Lighting System (MC)	Lump	1.00	170,200.00	\$ 170,200.00	-	\$ -	0%
40.02	2220	16525703D	Highway Lighting System (SLCC)	Lump	1.00	321,500.00	\$ 321,500.00	0.50	\$ 160,750.00	50%
40.02	2230	16525704D	Highway Lighting System (COT 4700S)	Lump	1.00	1,775,400.00	\$ 1,775,400.00	0.60	\$ 1,065,240.00	60%
40.02	2240	16525705D	Highway Lighting System (WVC 2700W)	Lump	1.00	46,800.00	\$ 46,800.00	0.75	\$ 35,100.00	75%
40.05			SITE STRUCTURES INCLUDING RETAINING WALLS, SOUND WALLS				\$ 1,543,764.00		\$ 1,086,590.00	70%
40.05	2250	018917015	Reset Sign Special	Each	2.00	2,800.00	\$ 5,600.00	1.00	\$ 2,800.00	50%
40.05	2260	028357100	Modular Block MSE Retaining Wall	Square Foot	315.00	110.00	\$ 34,650.00	250.00	\$ 27,500.00	79%
40.05	2270	028600001	Privacy Wall (WVC)	Foot	77.00	330.00	\$ 25,410.00	77.00	\$ 25,410.00	100%
40.05	2280	028600002	Privacy Wall (Concrete & Vinyl)	Foot	56.00	580.00	\$ 32,480.00	-	\$ -	0%
40.05	2290	028617140	Precast Privacy Wall 9 ft	Foot	2,926.00	280.00	\$ 819,280.00	2,300.00	\$ 644,000.00	79%
40.05	2300	028617150	Precast Privacy Wall 11 ft	Foot	840.00	332.00	\$ 278,880.00	840.00	\$ 278,880.00	100%
40.05	2310	028617160	Precast Privacy Wall (2700 W)	Foot	481.00	344.00	\$ 165,464.00	-	\$ -	0%
40.05	2320	028627100	Modular Block Gravity Wall	Lump	1.00	108,000.00	\$ 108,000.00	1.00	\$ 108,000.00	100%
40.05	2330	172421000	Trash Enclosure	Lump	1.00	74,000.00	\$ 74,000.00	-	\$ -	0%
40.06			PEDESTRIAN / BIKE ACCESS AND ACCOMMODATION, LANDSCAPING				\$ 3,732,596.00		\$ 470,686.00	13%
40.06	2340	025117080	Quick Coupler	Each	25.00	6,000.00	\$ 150,000.00	6.00	\$ 36,000.00	24%
40.06	2350	027717059	Perpendicular/Parallel Pedestrian Access Ramp	Each	34.00	3,610.00	\$ 122,740.00	8.00	\$ 28,880.00	24%
40.06	2360	027721000	Detectable Warning Surface	Each	8.00	320.00	\$ 2,560.00	-	\$ -	0%
40.06	2370	027767001	Seat Wall	Foot	28.00	926.00	\$ 25,928.00	-	\$ -	0%
40.06	2380	027767010	Concrete Sidewalk	Square Foot	22,868.00	13.00	\$ 297,284.00	6,000.00	\$ 78,000.00	26%
40.06	2390	027770007	Mid-Block Curb Cut Assembly (APWA) (SPECIAL)	Each	1.00	3,620.00	\$ 3,620.00	-	\$ -	0%
40.06	2400	027770008	Mid-Block Curb Cut Assembly (APWA)	Each	24.00	3,550.00	\$ 85,200.00	-	\$ -	0%
40.06	2410	027770009	Colored Concrete Pavement	Square Foot	1,466.00	20.00	\$ 29,320.00	-	\$ -	0%
40.06	2420	027770010	Concrete Mowstrip	Foot	4,472.00	36.00	\$ 160,992.00	-	\$ -	0%
40.06	2430	028100000	Irrigation System	Lump	1.00	786,100.00	\$ 786,100.00	0.33	\$ 259,413.00	33%
40.06	2440	028227001	Decorative Fence	Foot	337.00	60.00	\$ 20,220.00	337.00	\$ 20,220.00	100%
40.06	2450	028227105	Reset Gate	Each	1.00	675.00	\$ 675.00	1.00	\$ 675.00	100%
40.06	2460	028227115	Reset Fence	Foot	425.00	14.00	\$ 5,950.00	425.00	\$ 5,950.00	100%
40.06	2470	028447500	Bollard System	Each	13.00	4,800.00	\$ 62,400.00	-	\$ -	0%
40.06	2480	028700001	Bike Rack	Each	26.00	500.00	\$ 13,000.00	-	\$ -	0%
40.06	2490	028700002	Bike Maintenance Station	Each	6.00	1,200.00	\$ 7,200.00	-	\$ -	0%
40.06	2500	028700003	Metal Edging	Foot	4,660.00	20.00	\$ 93,200.00	-	\$ -	0%
40.06	2510	028740001	Restore Landscaping and Irrigation	Square Foot	32,897.00	4.00	\$ 131,588.00	10,000.00	\$ 40,000.00	30%
40.06	2520	029127010	Contractor Furnished Topsoil	Square Yard	11,667.00	7.00	\$ 81,669.00	-	\$ -	0%
40.06	2530	029127015	Contractor Furnished Topsoil - 24" Depth	Square Yard	3,015.00	77.00	\$ 232,155.00	-	\$ -	0%
40.06	2535		Contractor Furnished Topsoil - 24" Depth (Provisional for 4700)	Square Yard	1,000.00	77.00	\$ 77,000.00	-	\$ -	0%
40.06	2540	029227025	Turf Seed	Square Foot	12,845.00	0.20	\$ 2,569.00	-	\$ -	0%
40.06	2550	029227035	Broadcast Seed	Square Foot	150.00	2.00	\$ 300.00	-	\$ -	0%
40.06	2560	029227060	Turf Sod	Square Foot	83,167.00	1.00	\$ 83,167.00	-	\$ -	0%
40.06	2570	029250001	Artificial Turf	Square Foot	810.00	36.00	\$ 29,160.00	-	\$ -	0%
40.06	2580	029327001	Bark Mulch	Square Foot	70,150.00	1.20	\$ 84,180.00	-	\$ -	0%
40.06	2590	029327002	Rock Mulch	Square Foot	201,034.00	2.00	\$ 402,068.00	-	\$ -	0%
40.06	2600	029327030	Plant - No. 1 Container	Each	1,744.00	20.00	\$ 34,880.00	-	\$ -	0%
40.06	2610	029327050	Plant - No. 5 Container	Each	2,427.00	49.00	\$ 118,923.00	-	\$ -	0%
40.06	2620	029327090	Plant - 1-1/2 Inch Caliper	Each	32.00	588.00	\$ 18,816.00	-	\$ -	0%
40.06	2630	02932708D	Plant - 3 Inch Caliper	Each	325.00	740.00	\$ 240,500.00	-	\$ -	0%
40.06	2640	029387010	Tree Pruning	Each	8.00	258.00	\$ 2,064.00	6.00	\$ 1,548.00	75%

Attachment 4
LONP Contractor Construction Cost

SCC #	ITEM No.	PAY ITEM NO.	DESCRIPTION	UOM	Total Cost			LONP Cost		
					QTY	UP	TOTAL	QTY	TOTAL	% of Cost
40.06	2650	033050001	Seat Wall (SLCC)	Foot	280.00	591.00	\$ 165,480.00	-	\$ -	0%
40.06	2660	033090001	Seat Wall (with Stone Veneer)	Foot	124.00	762.00	\$ 94,488.00	-	\$ -	0%
40.06	2670	033090002	Signage Kiosk	Each	6.00	10,200.00	\$ 61,200.00	-	\$ -	0%
40.06	2680	033090003	Signage at Signage Kiosk	Each	6.00	1,000.00	\$ 6,000.00	-	\$ -	0%
40.07			AUTOMOBILE, BUS, VAN ACCESSWAYS INCLUDING ROADS, PARKING LOTS				\$ 3,697,704.00		\$ 533,808.00	14%
40.07	2690	027220001	Untreated Base Course APWA (Plan Quantity)	Cubic Yard	4,160.00	67.00	\$ 278,720.00	423.00	\$ 28,341.00	10%
40.07	2700	027491045	HMA - 3/8 inch (APWA)	Ton	1,693.00	140.00	\$ 237,020.00	-	\$ -	0%
40.07	2710	027491055	HMA - 1/2 inch (APWA)	Ton	1,756.00	155.00	\$ 272,180.00	579.00	\$ 89,745.00	33%
40.07	2720	027657020	Pavement Message Paint	Each	347.00	95.00	\$ 32,965.00	-	\$ -	0%
40.07	2725	027657030	Remove Pavement Message	Foot	34,376.00	1.00	\$ 34,376.00	15,000.00	\$ 15,000.00	44%
40.07	2730	027657040	Remove Pavement Message	Each	22.00	80.00	\$ 1,760.00	11.00	\$ 880.00	50%
40.07	2740	027657050	Pavement Marking Paint	Gallon	870.00	120.00	\$ 104,400.00	5.00	\$ 600.00	1%
40.07	2750	027657055	Pavement Marking Durable	Gallon	216.00	540.00	\$ 116,640.00	-	\$ -	0%
40.07	2760	027657075	Pavement Marking Paint (Stop line, Crosswalks-12 inch)	Foot	5,264.00	10.00	\$ 52,640.00	50.00	\$ 500.00	1%
40.07	2770	027767030	Concrete Flatwork 4 inch Thick	Square Foot	5,074.00	15.00	\$ 76,110.00	1,467.00	\$ 22,005.00	29%
40.07	2780	027770001	Concrete Sidewalk (APWA)	Square Foot	49,908.00	19.00	\$ 948,252.00	7,450.00	\$ 141,550.00	15%
40.07	2790	027770002	Concrete Curb and Gutter APWA Type A	Foot	4,947.00	50.00	\$ 247,350.00	1,629.00	\$ 81,450.00	33%
40.07	2800	027770003	Concrete Curb and Gutter APWA Type A - Spill	Foot	1,902.00	52.00	\$ 98,904.00	-	\$ -	0%
40.07	2810	027770004	Concrete Curb and Gutter APWA Type E	Foot	831.00	52.00	\$ 43,212.00	-	\$ -	0%
40.07	2820	027770011	Concrete Flatwork 4 inch Thick (APWA)	Square Foot	329.00	15.00	\$ 4,935.00	-	\$ -	0%
40.07	2830	027770012	Concrete Curb APWA Type P	Foot	206.00	57.00	\$ 11,742.00	-	\$ -	0%
40.07	2840	027770013	Concrete Curb APWA Type R	Foot	124.00	57.00	\$ 7,068.00	-	\$ -	0%
40.07	2850	027770020	Concrete Driveway Dip, 8 inch Thick (APWA)	Square Foot	448.00	15.00	\$ 6,720.00	-	\$ -	0%
40.07	2855	027770025	Concrete Driveway Flare, 8 inch Thick (APWA)	Square Foot	1,662.00	15.00	\$ 24,930.00	-	\$ -	0%
40.07	2860	027770030	Concrete Driveway Open, 8 inch Thick (APWA)	Square Foot	339.00	15.00	\$ 5,085.00	-	\$ -	0%
40.07	2870	027780001	Patterned Concrete Parkstrip	Square Foot	2,780.00	20.00	\$ 55,600.00	941.00	\$ 18,820.00	34%
40.07	2880	028917022	Sign Type A-1, 12 inch X 6 Inch	Each	3.00	41.00	\$ 123.00	1.00	\$ 41.00	33%
40.07	2890	028917028	Sign Type A-1, 12 inch X 36 Inch	Each	4.00	108.00	\$ 432.00	-	\$ -	0%
40.07	2900	028917029	Sign Type A-1, 18 inch x 12 inch	Each	16.00	76.00	\$ 1,216.00	1.00	\$ 76.00	6%
40.07	2910	028917031	Sign Type A-1, 18 inch x 18 inch	Each	7.00	100.00	\$ 700.00	-	\$ -	0%
40.07	2920	028917040	Sign Type A-1, 24 inch x 12 inch	Each	7.00	92.00	\$ 644.00	-	\$ -	0%
40.07	2930	028917042	Sign Type A-1, 24 inch x 24 inch	Each	1.00	126.00	\$ 126.00	-	\$ -	0%
40.07	2940	028917045	Sign Type A-1, 24 inch x 18 inch	Each	1.00	106.00	\$ 106.00	-	\$ -	0%
40.07	2950	028917050	Sign Type A-1, 24 inch x 30 inch	Each	2.00	142.00	\$ 284.00	-	\$ -	0%
40.07	2960	028917051	Sign Type A-1, 24 inch X 42 Inch	Each	2.00	207.00	\$ 414.00	-	\$ -	0%
40.07	2970	028917060	Sign Type A-1, 30 inch X 30 Inch	Each	9.00	279.00	\$ 2,511.00	-	\$ -	0%
40.07	2980	028917061	Sign Type A-1, 30 inch X 36 Inch	Each	7.00	237.00	\$ 1,659.00	-	\$ -	0%
40.07	2990	028917062	Sign Type A-1, 30 inch X 42 Inch	Each	5.00	328.00	\$ 1,640.00	-	\$ -	0%
40.07	3000	028917064	Sign Type A-1, 36 inch X 18 Inch	Each	3.00	251.00	\$ 753.00	-	\$ -	0%
40.07	3010	028917065	Sign Type A-1, 36 inch X 36 Inch	Each	2.00	362.00	\$ 724.00	-	\$ -	0%
40.07	3020	028917068	Sign Type A-1, 84 inch X 78 Inch	Each	1.00	1,399.00	\$ 1,399.00	-	\$ -	0%
40.07	3030	028917270	Remove Sign Less Than 20 SQ.FT	Each	49.00	119.00	\$ 5,831.00	-	\$ -	0%
40.07	3040	028917285	Relocate Sign Less Than 20 SQ.FT	Each	9.00	211.00	\$ 1,899.00	8.00	\$ 1,688.00	89%
40.07	3050	028917300	Small Sign Tubular Steel Post Base (B1)	Each	53.00	207.00	\$ 10,971.00	2.00	\$ 414.00	4%
40.07	3060	028917320	Slipbase Sign Base (B3)	Each	2.00	565.00	\$ 1,130.00	-	\$ -	0%
40.07	3070	028917360	Sign Post P2	Each	53.00	199.00	\$ 10,547.00	2.00	\$ 398.00	4%
40.07	3080	028917375	Sign Post P5	Each	2.00	623.00	\$ 1,246.00	-	\$ -	0%
40.07	3090	030590001	Portland Cement Concrete Pavement 8 Inch Thick (APWA)	Square Yard	7,091.00	140.00	\$ 992,740.00	945.00	\$ 132,300.00	13%
40.08			TEMPORARY FACILITIES AND OTHER INDIRECT COSTS DURING CONSTRUCTION				\$ 10,695,364.50		\$ 3,617,397.88	34%
40.08	3100	005557000	Partnering Cost Reimbursement	Lump	1.00	8,500.00	\$ 8,500.00	-	\$ -	0%
40.08	3101		Partnering Incentive	Each	7.00	36,000.00	\$ 252,000.00	1.00	\$ 36,000.00	14%
40.08	3110	005557005	Quality Control and Assurance	Lump	1.00	791,780.00	\$ 791,780.00	0.25	\$ 197,945.00	25%
40.08	3120	015017010	Mobilization	Lump	1.00	3,890,727.00	\$ 3,890,727.00	0.50	\$ 1,945,363.50	50%
40.08	3130	015407010	Public Information Services	Lump	1.00	42,500.00	\$ 42,500.00	0.25	\$ 10,625.00	25%
40.08	3140	015547005	Traffic Control	Lump	1.00	1,070,330.00	\$ 1,070,330.00	0.25	\$ 267,582.50	25%
40.08	3150	015547010	Temporary Pedestrian Access Route	Lump	1.00	52,600.00	\$ 52,600.00	0.25	\$ 13,150.00	25%
40.08	3160	017217010	Survey	Lump	1.00	410,000.00	\$ 410,000.00	0.25	\$ 102,500.00	25%
40.08	3170	017240000	Contractor Indirects	Lump	1.00	3,513,627.50	\$ 3,513,627.50	0.25	\$ 878,406.88	25%
40.08	3180	017250000	Misc Insurance/Bond/Contingencies	Lump	1.00	663,300.00	\$ 663,300.00	0.25	\$ 165,825.00	25%
50			SYSTEMS				\$ 4,835,824.00		\$ 1,269,640.00	26%
50.02			TRAFFIC SIGNALS AND CROSSING PROTECTION				\$ 704,400.00		\$ 97,350.00	14%
50.02	3190	02892701D	Traffic Signal System (4430 S & S Riverboat Rd)	Lump	1.00	166,000.00	\$ 166,000.00	-	\$ -	0%
50.02	3200	02892702D	Traffic Signal System (4530 South & S Atherton Dr)	Lump	1.00	172,000.00	\$ 172,000.00	0.25	\$ 43,000.00	25%
50.02	3210	02892703D	Traffic Signal System (4700 South & Driveway)	Lump	1.00	134,000.00	\$ 134,000.00	0.25	\$ 33,500.00	25%
50.02	3220	02892704D	Traffic Signal System (4700 South & Redwood Rd)	Lump	1.00	83,400.00	\$ 83,400.00	0.25	\$ 20,850.00	25%
50.02	3230	02892705D	Traffic Signal System (Sunstone Rd & 4800 South)	Lump	1.00	105,000.00	\$ 105,000.00	-	\$ -	0%
50.02	3240	02892706D	Traffic Signal System (Transit System Priority)	Lump	1.00	44,000.00	\$ 44,000.00	-	\$ -	0%
50.03			TRACTION POWER SUPPLY: SUBSTATIONS - BUS CHARGING				\$ 1,168,800.00		\$ -	0%
50.03	3250	175001010	Charge Pole Foundation (WVC)	Lump	1.00	45,000.00	\$ 45,000.00	-	\$ -	0%
50.03	3260	175001020	Charge Pole Foundation (MC)	Lump	1.00	45,000.00	\$ 45,000.00	-	\$ -	0%
50.03	3270	175001030	Power Cabinet Foundation (WVC)	Lump	1.00	48,000.00	\$ 48,000.00	-	\$ -	0%
50.03	3280	175001040	Power Cabinet Foundation (MC)	Lump	1.00	48,000.00	\$ 48,000.00	-	\$ -	0%
50.03	3290	175001110	Pantograph Charging Station (WVC)	Lump	1.00	340,000.00	\$ 340,000.00	-	\$ -	0%
50.03	3295		Charge Pole & Power Cabinet Foundation w/Conduit (WVC)	Lump	1.00	80,000.00	\$ 80,000.00	-	\$ -	0%
50.03	3300	175001120	Pantograph Charging Station (MC)	Lump	1.00	416,000.00	\$ 416,000.00	-	\$ -	0%
50.03	3305		Charge Pole & Power Cabinet Foundation w/Conduit (MC)	Lump	1.00	96,000.00	\$ 96,000.00	-	\$ -	0%
50.03	3310	175001130	Pantograph	Each	2.00	25,400.00	\$ 50,800.00	-	\$ -	0%
50.05			COMMUNICATIONS				\$ 2,962,624.00		\$ 1,172,290.00	40%
50.05	3320	022217038	Remove ATMS Junction Box	Each	6.00	1,750.00	\$ 10,500.00	3.00	\$ 5,250.00	50%
50.05	3330	022217039	Remove SMFO Cable	Foot	16,685.00	1.50	\$ 25,027.50	-	\$ -	0%
50.05	3340	135537020	Two 2-Inch Conduit	Foot	3,555.00	35.00	\$ 124,425.00	1,000.00	\$ 35,000.00	28%
50.05	3350	135537025	One 3-Inch Conduit	Foot	270.00	33.00	\$ 8,910.00	100.00	\$ 3,300.00	37%
50.05	3360	135537026	One 3-Inch Conduit, Attached to Structure	Foot	295.00	204.00	\$ 60,180.00	295.00	\$ 60,180.00	100%
50.05	3370	135537027	One 5-Inch Conduit, Attached to Structure	Foot	295.00	248.00	\$ 73,160.00	295.00	\$ 73,160.00	100%
50.05	3380	135537035	1D Conduit	Foot	23,885.00	65.00	\$ 1,552,525.00	8,000.00	\$ 520,000.00	33%
50.05	3390	135537040	2D Conduit	Foot	5,155.00	72.00	\$ 371,160.00	5,000.00	\$ 360,000.00	97%
50.05	3400	135537060	Three Individual Microducts	Foot	8,005.00	6.00	\$ 48,030.00	2,000.00	\$ 12,000.00	25%
50.05	3410	135547030	Polymer Concrete Junction Box, Tier 22, Type II	Each	3.00	3,800.00	\$ 11,400.00	3.00	\$ 11,400.00	100%

Attachment 4

LONP Contractor Construction Cost

SCC #	ITEM No.	PAY ITEM NO.	DESCRIPTION	UOM	Total Cost			LONP Cost		
					QTY	UP	TOTAL	QTY	TOTAL	% of Cost
50.05	3420	135547040	Polymer Concrete Junction Box, Tier 22, Type III	Each	66.00	4,600.00	\$ 303,600.00	20.00	\$ 92,000.00	30%
50.05	3430	135947070	24 Strand SMFO Cable	Foot	8,445.00	3.50	\$ 29,557.50	-	\$ -	0%
50.05	3440	135947110	144 Strand SMFO Cable	Foot	45,850.00	4.00	\$ 183,400.00	-	\$ -	0%
50.05	3450	135947130	Fusion Splice	Each	882.00	37.00	\$ 32,634.00	-	\$ -	0%
50.05	3460	135947140	6 Strand Pre-terminated Drop Cable Unit	Foot	1,650.00	4.50	\$ 7,425.00	-	\$ -	0%
50.05	3470	135947150	Fiber Optic Cable Splice Enclosure	Each	19.00	1,480.00	\$ 28,120.00	-	\$ -	0%
50.05	3480	135947151	Fiber Distribution Unit, 48 Strand	Each	20.00	3,450.00	\$ 69,000.00	-	\$ -	0%
50.05	3490	135947152	Fiber Distribution Unit, 144 Strand	Each	2.00	9,625.00	\$ 19,250.00	-	\$ -	0%
50.05	3500	135947160	6 SMFO Drop Cable Termination	Each	5.00	864.00	\$ 4,320.00	-	\$ -	0%
Subtotal							\$ 48,288,106.00		\$ 12,628,977.88	26%