

Task Order Request #TO24-007 - 200 South Bus Stop Comm & Fiber

Status	Open	Assignees	Carlie A Torres
Created Date	Nov 13, 2024	Issued Date	Nov 13, 2024
		Location	
TASK ORDER ID	ENTIFICATION		
Contract No	24-03814		
Contractor Name	ROCKY MOUNTAIN SYSTEMS SERVICES	Contract Start Date	06/14/24
Account Code(s)	40-7407.63000.2001 Bus Stops - \$192,148.64 40-7407.65000.5008 Hardware - \$17,614.98 40-7407.68000.8002 Engineering - \$4,231.23		

THE PURPOSE OF THIS TASK ORDER IS TO SPECIFICALLY DEFINE THE SCOPE, SCHEDULE, LUMP SUM PRICE, AND OTHER TERMS APPLICABLE TO THE WORK IDENTIFIED HEREIN.

UTA AND THE CONTRACTOR HEREBY AGREE AS FOLLOWS:

40-7407.68000.8003 PM for Design & Construction - \$76,837.19 40-7407.59000.9001 Unallocated Contingency - \$50,000.00

1.0 SCOPE OF SERVICES

 The contractor's scope letter and price estimate is hereby attached and incorporated into this Task Order
 RMSS-52720 - 028 - 200 South Bus Comm Fiber

2.0 SCHEDULE

The Substantial 06/30/25 The Final 06/30/25 **Completion Date for** Acceptance Date this Task is for this Task is **3.0 PRICING** Lump Sum + Provisional Sum (note: be sure to Invoices will be Lump Sum = \$290,832.04 Provisional Sum = The pricing agreement for this enter both amounts separately in the following billed on a monthly \$50,000 item is one of the basis for completed fields) following: work to date. The price for this item is in the amount of Independent Cost 24-007 200 S Bus Stop Com & Fiber ICE.pdf This item is under No Estimate (ICE) link, UTA's simplified if applicable acquisition threshold (\$200,000) and requires no ICE. The cost was determined to be fair and reasonable based on a review

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of contractor quotes and the original contract rates

This item is greater Yes than UTA's simplified acquisition threshold (\$200,000) and thus requires an Independent Cost Estimate (ICE). I have reviewed and found the ICE within the appropriate range for approval

4.0 APPLICABILITY OF FEDERAL CLAUSES

Does this Task No Order include federal assistance funds which requires the application of the Federal Clauses appended as Exhibit D to the Contract? If federal assistance N/A funds are anticipated, the UTA Civil Rights group has set a Disadvantaged Business Enterprises (DBE) participation goal for this Task Order of

IN WITNESS WHEREOF, THIS TASK ORDER HAS BEEN EXECUTED BY UTA AND CONTRACTOR OR ITS APPOINTED REPRESENTATIVE

UTAH TRANSIT AUTHORITY:

Required Signatures Explanation	Project Manager \$0 - 24,999 Legal Review \$25k or greater Dir. of Capital Projects \$25k - 74,999 Chief Service Dev. Ofcr. \$75k - 199,999 Executive Director \$200,000+ Procurement/Contracts (for all)
Signature (Legal)	Mike Bull Name: 11/22/2024
PM Approval	The costs associated with this item have been measured against the standard schedule of rates and the agreed contract pricing, (where applicable) and have been deemed consistent and appropriate for the proposed scope of work.
Signature (Project Manager)	By: Dean Hansen Dean Hansen Name: <u>Dean Hansen</u> Date: <u>11/22/2024</u> Date: <u>11/22/2024</u> Date: <u>11/22/2024</u> Date: <u>11/22/2024</u> Carlie Jones Carlie Jones

Signature (Director)

Task Order Request	#TO2 <u>4-007,</u>
	By: Jared Scarbrough Jared Scarbrough Name: 11/22/2024 Date:
Signature (Procurement)	By: Name:
	Date:
Signature (Chief Service Development Officer)	By: David Hancock, Chief Service Development Officer Date:
Signature (Executive Director)	By: Jay Fox, Executive Director
	Date:

COMPANY:

COMPANY: Signature (Contractor) ROCKY MOUNTAIN SYSTEMS SERVICES





Date 30-Oct-2024

On-Call Systems PTO 028 – 200 S Bus Stop Comm & Fiber Scope of Work Contract: 24-03814 UTA Project ID: SGR407

Background

Salt Lake City is reconstructing the 200 South Corridor between 400 West and 900 East. As part of this project, UTA has agreed to provide fiber connectivity for Phase II bus shelters and final power connections for both Phase I and Phase II bus shelters along the 200 South Corridor. The bus stop reconstruction will be completed in two phases. While UTA will support both phases, this scope of work is limited to Phase II only. All other UTA obligations will be managed under a separate task order or contract.

List of Phase I limits and bus stop locations: (For reference only)

- 200 S & 200 E, NE corner
- 200 S & 400 E, SW corner
- 200 S & 500 E, SW corner
- 200 S & 700 E, NE corner
- 200 S & 900 E, NW mid
- 200 S & 300 E, SW corner
 200 S & 400 E, NE corner
- 200 S & 600 E, SW corner
- 200 S & 700 E, SE corner
- 200 S & 300 E, NE corner
- 200 S & 500 E, NW corner
- 200 S & 600 W, NE corner

200 S & 200 W, NE corner

200 S & Main, SW corner

200 S & State St, NE corner

• 200 S & 800 E, SE corner

List of Phase II limits and bus stop locations: (Fiber connectivity and station power distribution are required)

corner

•

200 S & 300 W, NE corner

200 S & Main, NW corner

200 S & W Temple, SW

- 200 S & 300 W, SW corner
- 200 S & 200 W, SW corner
- 200 S & 200 E, SW corner
- 200 S & State St, SE corner
- Scope of Work

This Scope of Work entails the procurement, installation, and testing of fiber optic cables at Phase II bus stop locations along 200 South, with the goal of connecting all nodes to the FLHQ IT main center. The contractor is responsible for installing 48-strand single-mode fiber optic cables between the FLHQ IT main center and all bus stops within Phase II limits, utilizing existing spare UDOT fiber conduits to establish the fiber network. Additionally, the contractor is tasked with installing digital signs, NEMA boxes, and fiber distribution panels. The contractor must also establish power connections from the bus stop island junction box to the network equipment, bus stop lighting, and digital smart signs. It is important to note that SLC is responsible for installing conduits and power cables from the meter to the conduit stub on the bus stop island. If UTA opts to provide power to each piece of equipment individually with separate breakers, additional power cables may be needed from the meters to the bus stops. An additional power circuit breaker load panel might also be necessary at the bus stations. The attached exhibit includes electrical plans provided by SLC, which outline the layout of utility conduits and the incoming power







source.

Contractor Responsibilities:

<u>Design</u>

- Create and Provide High-Level design documents to be submitted to UDOT and UTA. This submittal must be submitted as soon as possible in order to obtain duct swap agreements with UDOT. Design should include:
 - Description of fiber cable and conduit sizes
 - Description of buffers
 - o Description of fiber path through UDOT spare conduits
 - o Description of junction and termination points
 - Description of conduit color

Materials (Contractor to determine actual amount or quantity in their proposal)

- 48-Strand single mode fiber optic cable
- Fiber distribution panels
- SM fiber patch jump cables
- Ethernet cables for digital signage
- Underground splice enclosure boxes
- Single mode type pig tails
- Fusion splice protection sleeves
- Power circuit breaker load panels
- Power circuit breakers
- AC receptacles
- Power line cables
- Mounting hardware

Construction

- Procure and install fiber cable as required to maintain the project
- Procure fiber distribution panels
- Contractor shall procure all necessary materials as required to maintain the project schedule
- Traffic coordination with Salt Lake City and UDOT to get access to all manholes/pull boxes
- Install 48-strand single mode fiber optic cable and establish all communication pathways from FLHQ to all bus stops within the Phase II limits
- Install a tracer wire within the conduits, ensuring it is securely fastened and properly positioned to facilitate the detection and tracking of the fiber
- The contractor should coordinate with the IT network department to determine the correct locations and quantities of fiber strands to be terminated
 - FLHQ: 48 strands
 - \circ $\;$ Bus stations between 300 W and State St along 200 S: 24 strands each
 - Bus station at 200 S & 200 E, SW: 48 strands
- Splice fibers
 - All necessary junction points or boxes





- Spares if necessary
- Label all strands of fiber optics that are in service
- Land fiber in NEMA communication boxes
- Install AC receptacles in the NEMA box for the network switch, digital sign, and structure power
- Install power circuit breaker load panel at the bus station, if required
- Run additional power cables from the meters to the bus station for each piece of equipment, if UTA prefers to provide power to each piece of equipment individually
 - o Run additional spare wires for future use, if needed
- Install a power circuit breaker load panel at each bus station, if necessary
 - o Install power breakers for the shelter lighting, digital sign, and network equipment
- Establish power lines from the bus station island junction box to stub-up conduit and final connections to supply power
 - To network equipment
 - To bus stop structure lighting
 - To smart digital sign
- Install the NEMA communication boxes provided by IT Department and the DIN rails at the Phase II bus stop locations
 - Coordinate with IT to figure out the right size and correct mounting locations
- Install Fiber Distribution Panels
 - Coordinate with IT to figure out the correct mounting location
- Install digital signs provided by the Network Department
 - o Coordinate with network team to determine the appropriate mounting location
 - \circ $\,$ Connect Ethernet cables from the network switch to the digital sign
 - Label all active Ethernet cables
- Coordinate with UTA throughout the project
 - o Test plan
 - o Quality inspection and acceptance forms for each location
 - Coordinate with UTA's IT, Network, and Systems Engineering departments to secure approval from all relevant stakeholders for the installation of hardware at designated locations

Deliverables

- Fiber test documents
- Product submittals
- High-Level design documents

Scope of work for the UTA IT Network Department

- Procure network switches
- Install network switches
- Configure network switches
- Connect fiber jumper cables to the ethernet switch
- Label all patch cables that are in service if necessary
- Procure NEMA communication boxes and din rail





 Provide the contractor with detailed information to ensure the precise installation of hardware at the designated locations

Scope of work for the UTA IT Department

- Procure digital signs
- Procure mounting brackets for the digital signs
- Configure digital signs
- Provide the contractor with detailed information to ensure the precise installation of hardware at the designated locations

Capital Assets:

Forty-eight strand SMF cable, covering a total of 12,000 linear feet was identified as a primary capital asset essential for supporting the network infrastructure. The Contractor will supply UTA with part numbers, serial numbers, and unit cost for all capital assets created as part of this project.

Project Schedule

The timetable below provides the anticipated timeline for construction as outlined by UTA. Please note that this schedule is subject to change due to unforeseen circumstances. Contractors must include a detailed schedule with their proposal.



Task Schedule					
Start	End	Duration	Label	Vert. Position	Vert. Line
9/1/2024	10/30/2024	60	Scope Definition	-18	-15
10/31/2024	11/29/2024	30	Proposal	-31	-15
11/30/2024	2/27/2025	90	Approvals	-44	-15
2/28/2025	3/29/2025	30	Procurement (Hardware)	-57	-15
3/30/2025	5/28/2025	60	Construction	-70	-15
5/29/2025	6/27/2025	30	Closeout	-83	-15

The rates and prices used to complete this task shall be in accordance with the rates as defined in the 24-03814 contract.

Please contact Dean Hansen at telephone number 801-687-3400 or via email at dhansen@rideuta.com if you have any questions.

Docusign Envelope ID: 0DB3DA8A-C02D-40C7-AB41-50B80152E232





Sincerely, Dean Hansen Digitally signed by Dean Hansen DN: C=US, E=dhansen@rideuta.com, O=Utah Transit Authority, OU="Systems Engineering", CN=Dean Hansen Date: 2024.10.31 08:32:38-06'00'
(Signature)

Dean Hansen Manager- Systems Engineering Utah Transit Authority

Stakeholder Review & Acknowledgement:

I have reviewed the attached Scope of Work document and approve its content as accurately reflecting the requirements of my department. I understand that this document outlines the specific work to be performed and serves as a basis for project planning and execution.

Department Name: Capital Design and Construction _{Signed by:} Department Representative (Print Name & Job Title): Carlie Torres, Project Manage Department Representative Signature and Date:	r 11/22/2024
Department Name: IT Network Support Department Representative (Print Name & Job Title), Tor Shuth / Manager Department Representative Signature and Date:	11/14/2024
Department Name: IT Department Representative (Print Name & Job Title): Justip Palmer / Manager Department Representative Signature and Date:	11/15/2024
Department Name: Customer Experience Department Representative (Print Name & Job Title) 54 John Ty / Manager Department Representative Signature and Date:	11/15/2024
Department Name: SLC Department Representative (Print Name & Job Title): Parker Bradley / SLC's Project I Department Representative Signature and Date:	Manager 11/20/2024

	SCHEDULE 6 - ELECTRICAL PHASE II									
Item	Specifications Reference Number Classification of Work	Units	UTA Power Quantity	SLC Power Quantity	SLC Fiber Quantity	UTA Fiber Quantity	EV Charging Quantity	Total		
601	WIRING	L.S.	0.75	0.25	-			1		
602	CONDUIT, PVC, 1 INCH DIAMETER, TRENCHED	L.F.	240			231		471		
603	CONDUIT, PVC, 1-1/4 INCH DIAMETER, BORED	L.F.			19252			19252		
604	CONDUIT, PVC, 2 INCH DIAMETER, BORED	L.F.	2223			2299		4522		
605	CONDUIT, PVC, 3 INCH DIAMETER, BORED	L.F.	5553	2531			286	8370		
606	JUNCTION BOX, TYPE II - ELECTRICAL	Each	18	4	e		2	24		
607	JUNCTION BOX, TYPE II - FIBER	Each			8	17		25		
608	METER/POWER PEDESTAL	Each	3	1				4		

GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT OF WAY AND BE COORDINATED WITH ENGINEER, ROCKY MOUNTAIN POWER, AND CITY ENGINEER. ELECTRICAL EQUIPMENT LOCATIONS SHALL BE STAKED IN THE FILED PRIOR TO INSTALLATION.
- 2. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
- 3. INFORMATION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR ADJUSTING THE WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT.
- 4. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH INFORMATION INDICATED ON THE DRAWINGS AND IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 5. PROVIDE ALL CUTTING, CHANNELING, CHASING, DRILLING, AND OTHER OPERATIONS AS MAY BE REQUIRED FOR THE ELECTRICAL WORK. ALL PATCHING AND FINISHING SHALL BE DONE BY THE CONTRACTOR.
- 6. SCHEDULE THE WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES. COORDINATE ALL ELECTRICAL INSTALLATION AND ROUGH-IN AS REQUIRED.
- COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES, AND THE LATEST APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) OF THE NATIONAL FIRE PREVENTION ASSOCIATION AS INTERPRETED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, LICENSES AND INSPECTIONS IN CONNECTION WITH THE ELECTRICAL WORK INCLUDING ANY CONNECTION FEES OR SERVICE MODIFICATION COSTS BY LOCAL UTILITIES.
- INSTRUCTIONS SUCH AS "PROVIDE..." SHALL MEAN, "CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING COMPLETE IN EVERY RESPECT."
- MAINTAIN A COMPLETE SET OF ELECTRICAL DRAWINGS AT THE JOB SITE WITH ALL CHANGES OR VARIATIONS IN THE WORK MARKED IN AN OBVIOUS MANNER. A COMPLETE AS-BUILT SET OF DRAWINGS INCORPORATING ALL MARK-UPS OF THE WORK SHALL BE DELIVERED TO THE OWNER UPON THE COMPLETION OF THE PROJECT.
- 11. POWER OUTAGES, WHEN NECESSARY, SHALL BE SCHEDULED SUFFICIENTLY IN ADVANCE WITH THE OWNER. POWER SHALL BE INTERRUPTED ONLY AT OWNER APPROVED TIMES.
- 12. ALL MATERIALS SHALL BE NEW, SHALL BE SUITABLE FOR THE PURPOSE, AND SHALL BEAR THE UL LABEL. DAMAGED OR DEFECTIVE MATERIALS SHALL BE REPLACED.
- 13. ENCLOSURES SHALL BE SUITABLE FOR THE ENVIRONMENT OF THE INSTALLATION.
- 14. ALL FUTURE FIBER CONDUIT RUNS AS SHOWN ON PLANS IS TO BE CONFIRMED BY THE OWNER, SALT LAKE CITY (SLC) OR UTAH TRANSIT AUTHORITY (UTA). ALL EMPTY CONDUIT CONNECTIONS SHOWN TO EXISTING UDOT BOXES AND/OR MANHOLES ARE TO BE CONFIRMED BY BOTH THE OWNER OF THE CONDUIT AND UDOT TO ENSURE A FUNCTIONING FUTURE COMMUNICATIONS NETWORK.
- 15. REFER TO UDOT SPECIFICATIONS REGARDING CONDUIT PROOFING AND MANDRELS WHEN USING A SPARE CONDUIT IN THE EXISTING UDOT FIBER BANK OR OTHERWISE. CONTRACTOR TO CONFIRM ANY USE OF EXISTING FIBER INFRASTRUCTURE WITH BOTH UTA AND UDOT PRIOR TO INSTALLATION. KEEP CONSISTENCY AMONG COLOR FOR SPARE WHEN FEASIBLE.
- 16. LABEL ALL CONDUITS AND THEIR LOCATE WIRES PER THEIR OWNERSHIP.

LIGHTING AND ELECTRICAL LEGEND

SYMBOL DESCRIPTION

- ____ NEW HDPE BORE POWER CONDUIT TO A DEPTH OF 48°. OWNED BY SALT LAKE CITY (SLC). SEE FEEDER SCHEDULE FOR SIZING.
 - NEW POWER CONDUIT TO A DEPTH OF 48". OWNED BY UTAH TRANSIT AUTHORITY (UTA). SEE FEEDER SCHEDULE FOR SIZING.
- NEW HDPE BORE FIBER CONDUIT TO A DEPTH OF 48". OWNED BY SALT LAKE CITY (SLC). SEE FEEDER SCHEDULE FOR SIZING.
- TRANSIT AUTHORITY (UTA). SEE FEEDER SCHEDULE FOR SIZING.
 - NEW NEMA 3R METER POWER PEDESTAL COMBINATION ALL-IN-ONE. SEE

 PLANS FOR OWNERSHIP.
 - E3 JTA NEW CAST POLYMER CONCRETE TYPE TWO SPLICE BOX HOUSING POWE FEEDS AND OWNED AND MAINTAINED BY UTAH TRANSIT AUTHORITY. INSTALLED FLUSH TO GRADE OR SIDEWALK WITH HEAVY DUTY TRAFFIC RATED COVER. BOX SHALL READ "UTA ELECTRICAL" S2 = LARGE BOX (24"X13"X12"Dp) ANSI TIER 22
 - SLC NEW CAST POLYMER CONCRETE TYPE TWO SPLICE BOX HOUSING POWI FEEDS AND OWNED AND MAINTAINED BY SALT LAKE CITY FOR FUTURE E CHARGING STATION. INSTALLED FLUSH TO GRADE OR SIDEWALK WITH HEAVY DUTY TRAFFIC RATED COVER. BOX SHALL READ "SLC ELECTRICA S2 = LARGE BOX (24"X13"X12"Dp) ANSI TIER 22
 - EI F-UTA FIBER. OWNED AND MAINTAINED BY UTAH TRANSIT AUTHORITY. INSTALL FLUSH TO GRADE OR SIDEWALK WITH HEAVY DUTY TRAFFIC RATED COVER. BOX SHALL READ "UTA COMM" S2 = 24"X36"X36"Dp ANSI TIER 22
 - NEW CAST POLYMER CONCRETE TYPE TWO SPLICE BOX FOR FUTURE FSLC FIBER. OWNED AND MAINTAINED BY SALT LAKE CITY. INSTALLED FLUSH GRADE OR SIDEWALK WITH HEAVY DUTY TRAFFIC RATED COVER. BOX SHALL READ "SLC COMM" S2 = 24"X36"X36"Dp ANSI TIER 22
 - EXISTING UDOT OWNED TYPE THREE SPLICE BOX FOR FIBER CONNECTIONS.
 - 8 STUB UP CONDUIT INTO BACK LEFT BUS SHELTER COLUMN FOR POWER AND FUTURE FIBER. THIS COLUMN SHALL ACT AS A RACEWAY FOR POW CONDUCTORS TO THE LIGHT FIXTURES. SEE DETAIL #5 ON SHEET EP120 FOR MORE INFORMATION.
 - EXISTING SINGLE PHASE POLE MOUNTED TRANSFORMER BY ROCKY MOUNTAIN POWER. SEE ELECTRICAL PLANS FOR DETAILS.
 - EXISTING THREE PHASE POLE MOUNTED TRANSFORMER BY ROCKY MOUNTAIN POWER. SEE ELECTRICAL PLANS FOR DETAILS.
 - **#####** FEEDER IDENTIFICATION. REFER TO FEEDER SCHEDULE.
 - IRRIGATION CONTROLLER. SEE IRRIGATION PLANS FOR DETAILS. COORDINATE EXACT LOCATION WITH GSBS LANDSCAPE ARCHITECTS.

400 W	300 W		200 W	W TEMPLE	MAIN ST	REGENT ST PLUM ALLEY	STATE ST			300 E	400 E	500 E		600 E EMPRESS CT HAWKES CT	HEATHER ST 700 E		800 E Dooley ct	WINDSOK SI
EP101	EP102	EP103	EP104	EP105	EP106	EP107	EP108	EP109	EP110	EP111	EP112	EP113	EP114	EP115	EP116	EP117	EP118	
								EDISON ST										

		PREPARER.
		SALT LAKE CITY CORPORATION PUBLIC SERVICES DEPARTMENT
ER		ENGINEERING DIVISION 349 SOUR 200 EX5, SUITE 100 SUIT UKE CITY, UT 6411-2536 TELEPHORE: 801-535-7961 FX: 801-535-7961 WWW.SLOBOX.COM PREPARER: CONSULTANTS:
ER EV L"		LIGHTING DESIGN AND ENGINEERING
ED		PROFESSIONAL SEAL:
ER I		PROJECT IDENTIFICATION: 200 SOUTH RECONSTRUCTION 400 W - 200 E
		<u>PHASE 2</u>
		100% DESIGN PROJECT OWNER:
		ALL LARE CITY CORPORATION 461 SOUTH STATE STREET SALT LARE CITY, UT BAT11-2836 WWW.SLCGOV.COM
		MARK DATE DESCRIPTION
		UNITRACT #: N/A PROJECT #: RDW20016 FILE #: N/A DRAWING FILE: N/A DRAWIN BY: J. EHNERT CHECKED BY: D. SANDERS COPYRIGHT:
900 E		SHEET TITLE: ELECTRICAL COVER SHEET
EP119	Blue Stakesof	SHEET IDENTIFIER: EP100 BINDING ORDER

















		CORPORATION PUBLIC SERVICES DEPARTMENT SINCHEAD DE AST, SATE 100 SALEVICAE COT, UT 6111–2250 TELEVICAE SOL - 53-003 WIN.SCOV.COM PREPARER CONSULTANTS: CLANTON & ASSOCIATES
HEET EP109		PROFESSIONAL SEAL:
MATCH L SEE SI		200 SOUTH RECONSTRUCTION 400 W - 200 E <u>Phase 2</u> 100% Design
 _		PROJECT OWNER: SALT LAKE CITY CORPORATION 451 SOUTH STATE STREET SALT LAVE OTY, LIT 64111-2836 WWW.SLCGOV.COM
		MARK Description PREPARER #: N/A CONTRACT #: N/A PROJECT #: N/A DRAWING FILE: N/A
ш 88 ЕР119	Blue Stakestof	SHEET TITLE: Power Plan SHEET IDENTIFIER: EP108 BINDING ORDER



		7
	PLAN NOTES:	
	EXACT METER LOCATION TO BE COORDINATED WITH SALT LAKE CITY.	
	COIL ENOUGH CONDUCTOR AT THE BASE OF POLE TO REACH THE TRANSFORMER TERMINALS AT THE TOP OF THE POLE. FINAL ROUTING OF CONDUCTOR UP THE POLE AND CONNECTION TO THE TRANSFORMER TO BE MADE BY ROCKY MOUNTAIN POWER FORCES. SEE ONE-LINE AND FAULT CURRENT TABLE FOR SERVICE LATERAL WIRE SIZE AND CONDUIT SIZE.	SALT LAKE CITY CORPORATION
	SLC OWNED SPLICE BOX FOR (1) FUTURE EV CHARGING STATION INSTALLATION FEEDING (2) PARKING SPOTS. CONNECT TO NEW SLC OWNED METER POWER PEDESTAL. SEE PANEL SCHEDULE FOR DETAILS.	PUBLIC SERVICES DEPARTMENT ENGINEERING DIVISION 349 SOUTH 200 EAST, SUITE 100 SALT LAKE CITY, UT 84111-2836 THE FURMER: 801-335-7861
	CONNECTION FROM EXISTING PHASE I SLC OWNED FIBER SPLICE BOX ON NORTHEAST CORNER OF 200E AND 200S TO BE MADE PRIOR TO THE BEGINNING OF PHASE 2 CONSTRUCTION.	FAX: 601-535-6093 WWW.SLCGOV.COM PREPARER CONSULTANTS: CLANFION & ASSOCIATES
	ENSURE THIS UTA TO UDOT FIBER CONNECTION IS COMPATIBLE WITH NETWORK IMS REQUIRED FOR BUS SHELTERS.	LIGHTING DESIGN AND ENGINEERING
		PROFESSIONAL SEAL:
110 51+9		
ET EP		
ATCH LINE SEE SHEL		200 SOUTH RECONSTRUCTION 400 W - 200 E
Ŵ		<u>PHASE 2</u>
		100% DESIGN
		PROJECT OWNER:
		CORPORATION
		451 SOUTH STATE STREET SALT LAKE CITY, UT 84111-2836 WWW.SLCGOV.COM
		MARK DATE DESCRIPTION
		PREPARER #: N/A CONTRACT #: N/A
/ ,		PROJECT #: RDW20016 FILE #: N/A DRAWING FILE: N/A
		DRAWN BY: J. EHNERT CHECKED BY: D. SANDER COPYRIGHT:
ш		SHEET TITLE: Power Plan
8 P119		SHEET IDENTIFIER:
	UTAH811	EP109

BINDING ORDER



		PREPARER:	
AVAILABLE FAULT URRENT @ PANEL ISCA-P 5,263 ISCA 5,263 ISCA 8,143 ISCA 8,143 ISCA 5,422 ISCA		SALT LAKE CITY CORPORATION PUBLIC SERVICES PUBLIC SERVICES	
AVAILABLE FAULT CURRENT @ PANEL (ISCA-P) 5,263 ISCA 13,829 ISCA 3,595 ISCA 5,770 ISCA		ENGINEERING DIVISION 349 SOUTH 200 EAST, SUITE 100 SALT LAKE CITY, UT 44111–2336 INELEPINGE 801–533–7981 FXX: 801–535–6933 WILLIAMISSION PREPARER CONSULTANTS: CLARFICH & ASSOCIATES	
		PROFESSIONAL SEAL:	
- SEE PANEL R # OF POLES		PROJECT IDENTIFICATION: 200 SOUTH RECONSTRUCTION 400 W - 200 E <u>PHASE 2</u>	
		100% DESIGN PROJECT OWNER: SALT LAKE CITY CORPORATION 451 SOUTH STATE STREET SALT WEW GLOW, OF A4111-2836 WWW SLOW/COM	
		MARK DATE DESCRIPTION	
		CONTRACT #: N/A PROJECT #: RDW20016 FILE #: N/A DRAWING FILE: N/A DRAWING FILE: N/A DRAWING BY: J. EINERT CHECKED BY: J. SANDERS COPVRIGHT: SHEET TITLE: POWER DETAILS	
	Blue Stakesof UTA 1811. Utestikeer	SHEET IDENTIFIER: EP120 BINDING ORDER	

MOUNTING SURFACE	NEMA 3P	MET	FD D		EDESTA	W/ SPI	IT BUS	SEDMOS	ERITR	NCE	RATED		120/240V-1PH-3W
FEEDER: TOP	In Date of		Utra	Minimur	nAIC=	10,000	AMPS	FR	CONTR	HUC	N - 20	100	AMPS MAIN BREAKER
				LEFT	PHASE	LOAD	RIGHT	T PHASE	LOAD	1			
DESCRIPTION	Size	P	Ott	11	12			L1	1.2	CI#	Size	P	DESCRIPTION
FUTURE DIGITAL SIGNAGE	20	1	P1	350	ALC: NO	-			1000	P2	1.00		SPACE ONLY
FUTURE DIGITAL SIGNAGE	20	1	P3	-	350	1		-	_	P4			SPACE ONLY
FUTURE DIGITAL SIGNAGE	20	1	P5	350				300	And in case of the local division of the loc	P6	15	1	LCC1 LIGHTING CONTROL CIRCUIT
SPARE	20	1	P7	Concession of	_				180	P8	20	1	LCC1 MAINT. RECEPTACLE
SPARE	20	1	P9	-	-			200	100	P10	60	4	BOTTOM SECTION
BOTTOM SECTION IS	S ON/OFF CO	NTRO	DL W	TH BUIL	T-IN 68A.	2-POLE	CONTAC	TOR, FE	ED FROM	ITHE	TOP SE	CTIC	N BREAKER OKT#P10.P12]
100	NTACTOR CO	DE IS	OPE	RATED 8	3Y4-20m	A CONTR	ROL REL	AY (ON/	OFF CO	TRO	L) WITH	HOP	SWITCH]
BUS STOP LIGHTING	20	1	1	100	No. of Concession, name	1		_	1	2	20	1	SPARE
BUS STOP LIGHTING	20	1	3		100	-			_	4	. 20	1	SPARE
BUS STOP LIGHTING	20	1	5	100	and the second value of th			_	1000	6	20	1	SPARE
SPACE ONLY	_	-	7		_	1		-		8	20	1	SPARE
SPACE ONLY			9		The second value of the se			_	1200	10			SPACE ONLY
SPACE ONLY		1	11			and the second value of				12			SPACE ONLY
				900	450	Tetal Co	heten	300 V A	180	1			
					1830	=Total C	amected	VA Both F	hases	1			
LOAD	CON	NECT	TED	DFACT	Est KVA	AMPS							
JIGHTING		600	D VA	1.25	0.75								
RECEPTACLES (1ST 10000)		180	D VA	1.00	0.18		180	V#=Tota	al Recept	tade L	beo		
RECEPTACLES (REMAINING)			VA.	0.50	0.00	1		NOTE:					
IOTOR (LARGEST)		- 4	0 VA.	1.25	0.00	1		ALL DO	HTING	CONT	ROLCE	NTE	RS AND ELECTRICAL EQUIPMENT
IOTORS (REMAINING)			D VA.	1.00	0.00	1	1 C C	SHALL	BE PRO	WIDED	WIH	ANU	-HLASH MAZAKU WARNING LABEL
ELECTRICAL HEATING	_	-	D VA	1.25	0.00			ALL OT	HEDIA	RELC	DECH	OF D	UUE NEC 110.16 AND NEPA (UE, ANI IV NEDA 78
ELECTRICAL MSC.		1050	U VA	1.00	1.05	-	100	ALLOI	IICA DA	DLLS	AL GOV	LDI	arra te.
TOTAL ESTIMATED	LOAD	1830	0 VA.		1.98	8							
					DAN		0.0						0000 (000) 000 (000)
OUNTING SURFACE	NEWA 3R	MET	ER PO	WER P	EDESTAL	W/SPL	IT BUS S	SERVICE		NCER	ATED		OWNER: UTA
EEDER: TOP			- 1	Minimus	ALC =	22,000 /	WPS					100	AMPS MAIN BREAKER
					B	RANCH	BREAK	ER	-				
				LEFT	PHASE	LOAD	RIGHT	PHASE	LOAD	L		_	
ESCRIPTION	Size	P	Ott#	A-PH	B-PH	C-PH	A-PH	B-PH	CIPH	0#	SEF	P	DESCRIPTION
UTURE DIGITAL SIGNAGE	20	1	P1	350	and the owned			1.000	1	P2			SPACE ONLY
UTURE DIGITAL SIGNAGE	20	1	P3	-	350	-	1	180	1	P4	20	1	LCC1 MAINT. RECEPTACLE
UTURE DIGITAL SIGNAGE	20	1	P5		-	350			300	P6	15	1	LCC1 LIGHTING CONTROL CIRCUIT
PARE	20	1	P7			-	100			P8	60	/	BOTTOM SECTION
SPACE ONLY	-	-	P9	-	_			100	10000	P10	/		
SPACE ONLY		L	P11	-	1000				100	P12	/	3	
BOTTOM SECTION IS C	DN/OFF CONT	ROL	WITH	BUILT-	N 60A3-	POLEC	ONT ACT	OR, FED	FROMT	THET	OP SEC	TION	BREAKER CKT#P8/P10/P12j
jco/	NTACTOR CO	ML IS	OPE	RALEDE	Y 4-20m	ACONTR	ROLREL	AY (ON	DEE COP	IROL	.) WITH	HOA	SWIICH
US STOP LIGHTING	20	1	1	100		-	-	-		2	20	1	SPARE
IUS STUP LIGHTING	20	12	3	-	100		_	-	-	4	20	1	SPARE
US STOP LIGHTING	20	1	3			100		-	-	6	-	-	SPACE ONLY
SPARE	20	1	1	-		-	-	and the owner of the		8			SPACE ONLY
SPACE ONLY	-	-	3	-	-	-	-	_	-	12		-	SPACE UNLY
OF AUC VIELT	-	-	1.00	450	450	450	0	180	300	141		-	SPACE UNET
				450	630	750	Total Co	nn ected 1	VA.	1			
					1830	=Total Co	mected	A All Pha	ses				
		NECT	ED	D.FACT.	Est KNA	AMPS							
LOAD	CON	-	NA .	1.25	0.75						_		
LOAD JGHTING	CON	600											
LOAD IGHTING IECEPTACLES (1ST 10000)	CON	600 180	VA.	1.00	0.18	1	180	VA=Tota	Recept	ade Lo	bad		
LOAD JGHTING RECEPTACLES (1ST 10000) RECEPTACLES (REMANING)	CON	600	VA VA	1.00	0.18		180	VA=Tota NOTE:	I Recept	ade Lo	tad		
LOAD JGHTING VECEPTACLES (1ST 10000) VECEPTACLES (REMAINING) JOTOR (LARGEST)	CON	600	VA VA VA	1.00 0.50 1.25	0.18		180	VA=Tota NOTE: ALL LIG	HTING (onte	ROL CE	NTER	SAND ELECTRICAL EQUIPMENT
LOAD JIGHTING RECEPTACLES (1ST 1000) RECEPTACLES (REMANING) MOTOR (LARGEST) MOTORS (REMANING)	CON	600 180 0	VA VA VA	1.00 0.50 1.25 1.00	0.18 0.00 0.00 0.00		180	VA=Tota NOTE: ALL LIG SHALL I DEP TH	HTING (BE PRO	CONTR NDED	ROL CE	NTER	RS AND ELECTRICAL EQUIPMENT FLASH HAZARD WARNING" LABEL
LOAD JGHTING KECEPTACLES (1ST 10000) HECEPTACLES (REMAINING) JOTOR (REMAINING) LECTING (REMAINING) LECTING (HATING)	CON	600 180 0 0	VA VA VA VA	1.00 0.50 1.25 1.00 1.25	0.18 0.00 0.00 0.00 0.00		180	VA=Tota NOTE: ALL LIG SHALL I PER TH ALL OT	HTING O BE PRO E NATIO	ade Lo Contre WDE D NAL E RELS F	ROL CE WITH ' LECTR	NTER ARC IC O	RS AND ELECTRICAL EQUIPMENT FLASH HAZARD WARNING" LABEL DDE NEC 110.16 AND NFPA 70E, AND IV NFPA 70.
LOAD IGHTING IECEPTACLES (1ST 10000) IECEPTACLES (IREMANING) IDTOR (LARGEST) IDTORS (REMANING) LECTRICAL (HEATING LECTRICAL (MSC. TITAL (ESTIMATED)	040	600 180 0 0 1050	VA VA VA VA VA	1.00 0.50 1.25 1.00 1.25 1.00	0.18 0.00 0.00 0.00 1.05 1.96	10	180	VA=Tota NOTE: ALL LIG SHALL I PER TH ALL OT	i Recept HTING (BE PRO E NATIO HER LAB	ONTE NOED NAL E BELS F	NOL CE WITH ' LECTR REQUIR	ARC ARC ED E	RS AND ELECTRICAL EQUIPMENT Flash Hazard Warning" Label Ode Nec 110.16 and NFPA 70E, and IV NFPA 70.
LOAD JGHTING HECEPTACLES (1ST 10000) HECEPTACLES (1ST 10000) JECTERCAL (AGGEST) JOTOR (LAGGEST) JOTORS (REMANING) ELECTRICAL (MSC. TOTAL ESTIMATED L	040	600 180 0 1050 1830	VA VA VA VA VA	1.00 0.50 1.25 1.00 1.25 1.00	018 0.00 0.00 0.00 1.05 1.98	10	180	VA=Tota NOTE: ALL LIG SHALL I PER TH ALL OT	i Recept httinig (be pro/ e natio her las	ade Lo Contr Vided NAL E Bells F	NOL CE WITH ' LECTR	NTER ARC IC O IED E	RS AND ELECTRICAL EQUIPMENT Frash Hazaro Warning" Label Ode Nec 110.16 and NFPA 70E, and Ry NFPA 70.
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LOAD IGHTING IECEPTACLES (IST 10000) IECEPTACLES (IST 10000) IECEPTACLES (IST 10000) IECEPTACLES (IREMANING) LECTRICAL MSC. TOTAL ESTIMATED L ICUNTING SURFACE IEEDER: TOP IEECRIPTION IEECRI	CON CON NEMA 3R State 20 20 20 20 20 20 20 20 20 20	600 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 VA P3 P5 P7 P11 WIPF 1 3 5 7 9 111 ED VA VA VA VA VA VA	1.00 0.50 1.25 1.00 1.25 1.00 1.25 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.18 0.000 0.000 0.000 0.000 0.000 1.05 1.98 PAN PAN PAN PAN PAN PAN PAN PAN	10 HEL "MW SPL 10 000 A CAPH 350 POLE CONTR 100 450 750 AMPS	180 PP3" IT BUS, 1 BREAK BREAK BREAK RUGHT A-PH A-PH A-PH A-PH A-PH A-PH A-PH A-PH	VA-Tota NOTE: ALL DIG SHALL I PER TH ALL OT SERVICE ER PHASE B-PH 180 OR, FED 0R, FED 0R, FED 0R, FED 180 OR, FED	I Recept HTING (DE PRO' HER LAD E ENTRA LOAD CAH 300 100 FROM 1 SFE CO 300 VA 300 VA 300 VA SES	ade Lo CONTR MUCE F PA PA PA PA PA PA PA PA PA PA PA PA PA	AND CEE	100 100 100 100 100 100 100 100	RS AND ELECTRICAL EQUIPMENT -RLASH HAZARO WARNING' LABEL -DDE NEC 110.16 AND NEPA TOE, AND NEPA TO. 208Y1120-3PH-4W OWNER: UTA AMPS MANI BREAKER: DESCRIPTION SPARE LCC1 MAINT, RECEPTACLE LCC1 MAINT, RECEPTACLE LCC1 MAINT, RECEPTACLE LCC1 MAINT, RECEPTACLE LCC1 MAINT, RECEPTACLE SPARE SPA
LOAD IGHTING IEICEPTACLES (I'ST 10000) IEICEPTACLES (I'ST 10000) IEICEPTACLES (I'ST 10000) IDTOR ILARGEST) IDTOR ILARGEST) IDTOR IS IREMANING) LECTRICAL HEATING IEICERICAL MSC. TOTAL ESTIMATED L IDUNTING SURFACE IEICERICAL MSC. IDUNTING SURFACE IEICERICAL MSC. IDUNTING SURFACE IEICERICAL SIGNAGE UTURE DIGITAL SIGNAGE IDTOR SECTIONIS C ISS STOP LIGHTING INS STOP	CON CON NEWA 3R Size 20 20 20 20 20 20 20 20 20 20	600 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VA P1 P3 P7 P91 VIA VA	1.00 0.50 1.25 1.00 0WER PI 1.25 1.00 0WER PI 1.25 1.00 0WER PI 1.25 1.00 0WER PI 1.25 1.00 0 0 0 1.25 1.00 1.00 1.00 1.00 1.00 1.25 1.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.181 0.000 0.000 0.000 0.000 0.000 0.000 1.165 1.989 PAIN PEDESTCH PAIN PEDESTCH PAIN PAIN PAIN PAIN PAIN PAIN PAIN PAIN	10 HEL "WW SPL 1000 J C-PH 380 POLE OL ACONTR 450 750 -Total C AMPS	100 PP3" IT BUS, S RIGHT A-PH 200 DMTACT RIGHT A-PH 200 RIGHT A-PH 200 RIGHT A-PH 200 RIGHT A-PH 100 0 Total Co mmetadV 180	VAFTota NOTE: ALL LIG SYMALL L PER TH ALL OT SERVICE BR PHASE BPH 180 OR, FED AP(OWN 180 OR, FED AP(OWN 180 180 OR, FED AP(OWN 180 OR, FED AP(OWN	I Recept HTING 6 DE PROV HER LAS E ENTRA LOAD CPH 300 100 FROM 1 OFF CO 100 FROM 1 FROM	ade Lo CONTR WOED MALE BELST P10 P11 P12 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P11 P12 P12	AATED AATED AATED AATED AATED DP SEC	100 100 100 100 100 100 100 100	RS AND ELECTRICAL EQUIPMENT -RLASH HAZARO WARNING' LABEL 3 ODE NEC 110.16 AND NEPA TOE, AND NEPA TO. 208Y1120V-3PH-4W OWNER, UTA AMPS MANU BREAKER DESCRIPTION SPARE LCC1 MANT. RECEPTACLE LCC1 MANT. RECEPTACLE LCC1 MANT. RECEPTACLE LCC1 MANT. RECEPTACLE LCC1 MANT. RECEPTACLE SPARE

MOUNTING SURFACE					PAN	VEL "MP	P4"			-			120/240V-1PH-3W
REEDER BOTTOM	EMA 3R	MET	ERPO	OWER P	EDESTA 1ALC =	10.000 A	T BUS,: MPS	SERVIC	EENTRA	ANCE	RATED	100	AMPS MAIN BREAKER
					В	RANCH	BREAK	ER					
	-	-		LEFT	PHASE	LOAD	RIGHT	PHASE	LOAD	-	-		Lances and some
DESCRIPTION	Size	P	Ot#	L1	L2	-	_	-11	L2	Cid#	Size	P	DESCRIPTION
SDADE	20	1	P1	200	-	12		-	-	P2	-	+	SPACE ONL
SPARE	20	ti	P5	-	-			300	1	PG	15	11	LOCT LIGHTING CONTR
SPARE	20	11	P7	Concession in which the		100			180	P8	20	11	LCC1 MAINT, RECEPTAG
SPACE ONLY	-	1	P9			1		100	100	P10	60	V	BOTTOM SECTION
SPACE ONLY	1.00		P11	Concession in the	1.00	1			0	P12	/	2	-
BOTTOM SECTION IS ON	OFF CO	NTR	DL W	TH BUILT	FIN 60A	2-POLE C	ONTAC	TOR, FI	ED FROM	A THE	TOP SI	ECTIC	ON BREAKER CKT#P10,P1
[CONTAC	TORCO	OLIS	OPE	RATED	1Y 4-20m	A CONTR	OL REL	AY (ON	OFF CO	NTRO	L) WITH	HOA	ASWITCH]
BUS STOP LIGHTING	20	1	1	100	-				Contract of	2	20	1	SPARE
SPARE	20	1	3	-	_	15		-	_	4	20	1	SPARE
SPACE ONLY	1	-	5	-				-	and the second value of th	6	-	-	SPACE ONL
SPACE ONLY	-	÷-	1	1	-	100		_	-	8	-	-	SPACE ONL
SPACE ONLY		÷	9	-	-	10		-	and the second s	10	-	-	SHACE ONL
SPACE ONLY] 31	2000		a subscription of the local division of the	_	200		12			SPACE ONL
				800	190	Total Cor	hereen	300 V A	100	1			
				000	780	=Total Co	mediad	VA Both 9	hases	1			
LOAD	CON	NECT	TED	DEACT	EST KVA	AMPS				-			
LIGHTING	-	40	AV 0	125	0.50								
RECEPTACLES (1ST 10000)		18	AV 0	1.00	0.18		180	VA=Tot	al Recep	tacle L	beo	1	
RECEPTACLES (REMAINING)	1.1		VA.	0.50	0.00			NOTE:	-				
MOTOR (LARGEST)	1.1		AV G	1.25	0.00			ALL UK	GHTING	CONT	ROLCE	ENTER	RS AND ELECTRICAL EQ
MOTORS (REMAINING)		- 0	AV 0	1.00	0.00			SHALL	BE PRO	MIDEO	D WITH	"ARC	-FLASH HAZARD WARNI
ELECTRICAL HEATING		1	AV C	1.25	0.00			PERTH	E NATIO	DNAL	ELECTR	RICC	ODE NEC 110.16 AND NFI
ELECTRICAL MISC.		20	AV 0	1.00	0.20			ALLUI	HER LA	DELS	ne qui	NEU S	DI NITA IV.
TOTAL ESTIMATED LOAD	4	78	AVIO		0.88	4							
MOUNTING: SURFACE					PAN	EL "MP	P5"						120/240V-1PH-3W
M	EMA 3R	MET	ER PO	DWER PE	EDESTAL	W/SPU	T BUS, S	SERVIC	EENTRA	ANCE I	RATED		
REEDER BOTTOM				Mnimun	IALC.=	10,000 A	MPS				_	100	AMPS MAIN BREAKER
			-	COLT	DUACE	LOAD I	DICUT	DUACE	100	-			
DECONDITION	0		low	LEFI	PHASE	LOAD	HUGHI	PTIASE	LUAU	0.44	Circ	Lo.	DECODITION
SONDE	302.e	F	04	LI	12		_	- L1	1.12	02	SEE	-	SDACE CALL
SPACE	20	÷	03	Common State	-	10		And in case of the	_	P2 D4	-	1	SPACE ONLY SPACE ONLY
SPLOF	20	1	I D S	-	-			300	and the second	DE	15	1	LOCALICHTING CONTROL
SPARE	20	14	P7	No. of Concession, Name	_	1.0			180	PR	20	1	LOCI MAINT RECEPTAG
SPACE ONLY	-		P9					100		P10	60		BOTTOM SECTION
SPACE ONLY	1		P11	Sec. B	-	1	1		100	P12	/	2	
BOTTOM SECTION IS ONV	DEF COL	NTRO	X WI	THRUT	UN 60A	2-POLE C	ONTAC	TOR FE	DEBON	THE	TOP SE	ECTIC	W BREAKER OKT#P10 P1
[CONTAC	TORICO	OIL IS	OPER	RATED B	Y 4-20m	A CONTR	OL REU	AY (ON)	OFF CO	TRO	UWITH	HOP	SWITCH]
BUS STOP LIGHTING	20	1	1	100				1.1	1	2	20	1	SPARE
BUS STOP LIGHTING	20	1	3	1000	100			1000		4	20	1	SPARE
SPARE	20	1	5						-	6			SPACE ONLY
SPARE	20	1	7	1000					_	8	0.5	1.1	SPACE ONLY
SPACE ONLY	20	1	9			-				10			SPACE ONLY
SPACE ONLY	1		11	1000		14		-	-	12			SPACE ONLY
				100	100	Tubel Com	and a da	300	180				
				400	200	Trial Co	Inected 1	A Deep C		1			
1040	CON	NECT	ED	DEACT	Ed Kilk	1MPS	1001001	IN DOM: I	1100000				
LIGHTING	-	500	AVIO	1.25	0.63								
RECEPTACLES (1ST 10000)		180	AVE	1.00	0.18		180	VA=Tot	a Recept	tacle L	bad	fir:	
RECEPTACLES (REMAINING)			NA.	0.50	0.00			NOTE:					
MOTOR (LARGEST)		1.0	A/ C	1.25	0.00			ALL LIG	HTING	CONTR	ROLCE	NTER	RS AND ELECTRICAL EQU
MOTORS (REMAINING)		- 0	AV C	1.00	0.00			SHALL	BE PRO	MDED	WITH '	ARC	FLASH HAZARD WARNIN
ELECTRICAL HEATING	1	- 0	AI	1.25	0.00			PERTH	ENATIO	DNAL B	LECTR	alc c	ODE NEC 110.16 AND NFI
ELECTRICAL MISC.		- 0	A/ C	1.00	0.00	-		ALL UI	HER LA	BELS	KEQUIP	CED B	ST NEPA /U.
TOTAL ESTIMATED LOAD		680	AVIO		0.81	4							
MOUNTING: SURFACE					PAN	EL "MPI	P6"						120/240V-1PH-3W
N	EMA 3R	MET	ER PC	WER PE	EDESTAL	W/SPU	T BUS, S	SERMO	EENTRA	NCE	RATED		
HEEDER: BOTTOM				Minimum	AJC=	10,000 A	MPS					100	AMPS MAIN BREAKER
				1007	DHACE	HUNHH	DICUT	DHACE	1045	1			
DESCRIPTION	Sea		Cotte	14	12	LUND 1	- NGLI	11	12	Com	Cira	P	DESCORTION
SPARE	20	1	P1	-		-		-	-	P2	ves	1	SPACE ONLY
SPARE	20	1	P3				1	-		P4		-	SPACE ONLY
SPARE	20	1	P5	1.2.1				300		P6	15	1	LOC1 LIGHTING CONTRO
SPARE	20	1	P7	No.					180	P8	20	1	LOC1 MAINT, RECEPTAD
SPACE ONLY			P9		distant in the			300	1 million	P10	60		BOTTOM SECTION
SPACE ONLY			P11					-	100	P12	/	2	
BOTTOM SECTION IS ONK	OFF COM	TRO	E WIT	TH BUILT	-IN 60A.	2POLE C	ONTAC	TOR, FE	D FROM	A THE	TOP SE	ECTIC	W BREAKER CKT#P10.P1
[CON TAC	TORCO	HL IS	OPER	ATED B	Y 4-20m	A CONTR	OL REL	AY (ON/	OFF CO	TRO) WITH	HOA	SWITCH
BUS STOP LIGHTING	20	1	11	100	10.5			100		2	20	1	BUS STOP LIGHTING
BUS STOP LIGHTING	20	1	3		100			-		4	20	1	SPARE
BUS STUP LIGHTING	20	1	0	100	and the second second			-	-	6		-	SPACE ONLY
SPARE	20	1	1						1	8		-	SPACE ONLY
SPACE ONLY		-	44							10	-	-	SPACE ONLY SPACE ONLY
STRUE UNLT	-		1.44	200	100			400	-190	14	-		SPACE ONLY
			1.1	600	280	Total Com	nected	400	100	1			
				300	880	=Total Cov	mechadi	A Both F	hases	1			
LOAD	CON	NECT	ED	O.FACT	Est. KVA	AMPS		- Andre I	- and	-			
LIGHTING		700	A/	1.25	0.88								
RECEPTACLES (1ST 10000)		180	A/	1.00	0.18	1.1	180	VA=Tot	al Recept	tacle Li	tad	1	
RECEPTACLES (REMANING)			NA.	0.50	0.00	1 1	1	NOTE:	-		_	-	
MOTOR (LARGEST)		0	A/ I	1.25	0.00	1.5.1		ALL UG	HTING	CONTR	ROLCE	NTEP	RS AND ELECTRICAL EQU
MOTORS (REMAINING)		0	A/ I	1.00	0.00	1.1		SHALL	BE PRO	VIDED	WITH	ARC	FLASH HAZARD WARNIN
ELECTRICAL HEATING		. (AF	1.25	0.00	1 1		PERTH	ENATIC	INAL B	LECTR	EIC CI	ODE NEC 110.16 AND NEE
ELECTRICAL MISC	-	0	A/	1.00	0.00	1.1		ALLOT	HER LA	BELSI	KEQUIR	KED E	ST NEPA 70.
TOTAL ESTIMATED LOAD		880	A/ I	1	1.06	5							

	PREPARER:
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	CORPORATION
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IE	ENGINEERING DIVISION
1E	SAUTI 200 ESSI, SUTE 100 SAUT LAKE CITY, UT 84111-2836 TELEPUNKE 801-55-7061
DNLY.	FAX: 801-535-6093
WLY	PREPARER CONSULTANTS:
DNLY	
	CLANION & ABSOCIATES
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	LIGHTING DESIGN AND ENGINEERING
EQUIPMENT	
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	CORPORATION
	Som Sharion
	451 SOUTH STATE STREET
	SALT LAKE CITY, UT 84111-2836
	NWN.SLUGOT.COM
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E	PREPARER #: N/A
WLY	CONTRACT #: N/A
WLY.	PROJECT #: RDW20016
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MOUNTING SURFACE	PANEL "MPP7"					120/240V-1PH-3W						
FEEDER: BOTTOM	EMA3R	MET	ERPO	WER P	EDESTAL	W/ SPL 10,000 A	IT BUS, SERVIC WIPS	EENTR	ANCE	RATED	10	AMPS MAIN BREAKER
					B	RANCH	BREAKER					
				LEFT	PHASE	LOAD	RIGHT PHASE	ELOAD				
DESCRIPTION	Size	P	0#	L1	12		13	1.2	Ote	Sze	P	DESCRIPTION
SPARE	20	1	P1				100	1000	P2	1.00		SPACE ONLY
SPARE	20	1	P3						P4	-	1	SPACE ONLY
SPARE	20	1	P5		1		300	Statistics.	P6	15	1	LCC1 LIGHTING CONTROL CIRCUIT
SPARE	20	1	P7					180	P8	20	1	LCC1 MAINT. RECEPTACLE
SPACE ONLY			P9	· · · · ·			300	and the second second	P10	60		BOTTOM SECTION
SPACE ONLY			P11				-	100	P12	/	2	
BOTTOM SECTION IS ON ICONTAC	OFF CO	NTRO	OPER	TH BUILT	F-IN 60A.2	2-POLE C	CONTACTOR, F	ED FROM	ATHE	TOP S	ECTI 1 HO	ON BREAKER CKT#P10.P12] A SWITCH[
BUS STOP LIGHTING	20	1	1	100	1		100	Summer Street	2	20	1	BUS STOP LIGHTING
BUS STOP LIGHTING	20	1	3	100 24	100		1000		4	20	1	SPARE
BUS STOP LIGHTING	20	1	5	100	House of			1000	6			SPACEONLY
SPARE	20	1	7						8			SPACE ONLY
SPACE ONLY	1.1		9		1		100	10000	10			SPACE ONLY
SPACE ONLY		1.1	11	100.00					12		1	SPACE ONLY
			1	200	100	-	400	180				
				600	280	Total Co	A.V betoenn					
					880	=Total Co	innected VA. Both	P-3585				
LOAD	CON	NECT	ED	DEACT	Ed. KilA	AMPS						
LIGHTING		700	AV I	1.25	0.88							
RECEPTACLES (1ST 10000)		180	AV 9	1.00	0.18	1.1-0	180 VA=Tot	al Recep	tacle L	cad	1	
RECEPTACLES (REMAINING)		-	MA.	0.50	0.00		NOTE:					
MOTOR (LARGEST)		- 10	A/ I	1.25	0.00		ALLU	GHTING	CONT	ROLCE	ENTE	RSAND ELECTRICAL EQUIPMENT
MOTORS (REMAINING)		- 10	A/ I	1.00	0.00	SHALL BE PROVIDED WITH "ARC-FLASH HAZARD WARNING" LABEL						
ELECTRICAL HEATING	1.1	1.3	AV 1	1.25	0.00	10 PER THE NATIONAL ELECTRIC CODE NEC 110.16 AND NFPA TOE, AN					CODE NEC 110.16 AND NEPA 70E, AND	
ELECTRICAL MISC.		1.1	AV I	1.00	0.00		ALL OTHER LABELS REQUIRED BY NFPA 70.					BY NEPA /0.
TOTAL ESTIMATED LOAD		880	A/ I		1.06	5	-					

MOUNTING: SURFACE					PAN	IEL "MP	P9"						120/240V-1PH-3W
	NE	MA 3	R ME	TER PO	WER PE	DESTAL.	SERVIC	E ENTR	ANCE R	ATED			OWNER: SLC
FEEDER: TOP				Minimun	n AI.C.=	10,000 A	MPS					100	AMP MAIN BREAKER
					В	RANCH	BREAK	ER					
	LEFT PHASE LOAD RIGHT PHASE LOAD												
DESCRIPTION	Size	Р	C kt#	L1	L2			L1	L2	Ckt#	Size	P	DESCRIPTION
EV CHARGING STATION	40		1	3328				3328		2	40		EV CHARGING STATION
		2	3		3328				3328	4		2	
IRRIGATION CONTROLLER	20	1	5	135						6	20	1	SPARE
IRRIGATION CONTROLLER	20	1	7		135					8	20	1	SPARE
IRRIGATION CONTROLLER	20	1	9	135						10	20	1	SPARE
SPACE ONLY			11							12	20	1	SPARE
SPACE ONLY			13					180		14	20	1	MAINT. RECEPTACLE
SPACE ONLY			15						200	16	15	1	LIGHTING CONTROL
				3598	3463			3508	3528				
				7106	6991 Total Connected V.A.								
					14097	=Total Co	onnected 1	A Both P	hases]			
LOAD	CONI	NECTI	D	D.FACT.	Est. KVA	AMPS				-			
LIGHTING		0	VA	1.25	0.00								
RECEPTACLES (1ST 10000)		180	VA	1.00	0.18	1	180	VA=Tota	Recept	acle L	oad	1	
RECEPTACLES (REMAINING)			VA	0.50	0.00	1		NOTE:					
MOTOR (LARGEST)		0	VA	1.25	0.00	1		ALLIG	HTING	ONT	ROL CE	NTE	RS AND ELECTRICAL EQUIPMENT
MOTORS (REMAINING)	0 VA 1.00 0.00 SHALL BE PROVIDED WITH "ARC-FLASH HAZARD WARNING"							-FLASH HAZARD WARNING"					
ELECTRICAL HEATING		0	VA	1.25	0.00	1		LABELS	PER TH	IE NA	TIONAL	ELE	CTRIC CODE NEC 110.16 AND
ELECTRICAL MISC.	13917 VA 1.00 13.92 NFPA 70E, AND ALL OTHER LABELS REQUIRED BY NFPA 70.							LS REQUIRED BY NFPA 70.					
TOTAL ESTIMATED LOAD	1	4097	V/A		14 10	69							

		MPP1 F	EEDER SCHE	DULE	
KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE
	MPP1-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	
	MPP1-3	120V-HOT.NEU	2#10-THWN CU	RED,WHT	3" HDPE
	MPP1-5	120V-HOT.NEU	2#10-THWN CU	BLK, WHT	30" BELOW GRADE
MPP1-A	GROUND	120/240V-GND	1#10-THWN CU	GREEN	
		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE US	SE. N
	MPP1-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	3* H DPE
	MPP1-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	48" BELOW GRADE
MPP1-B	GROUND	120/240V-GND	1#10-THWN CU	GREEN	TO BELON GIGIDE
		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE US	SE.
	MPP1-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	3"HDPE
MPP1-C	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE
		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE US	SE. N.
HODE D	MPP1-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	1" PVC
MPP1-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
	MPP1-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	2* HDPE
-	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE
MPPIE		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE US	SE. N.
	MPP1-1	120V-HOT.NEU	2#10-THWN CU	BLK, WHT	1"PVC
MEE1-E	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
	MPP1-5	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	2" HDPE
	GROUND	120/240V -GND	1#10-THWN CU	GREEN	48" BELOW GRADE
MPP1-G		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N
HODA H	MPP1-5	120V-HOT,NEU	2#10-THWN CU	BLK WHT	1" PVC
MPP1-H	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE

MOUNTING SURFACE					PAN	IEL "MP	PP8"						120/240V-1PH-3W
12	EMA 3R	MET	ERP	OWER P	EDESTA	W/SPL	IT BUS, SER	RACE	ENTRA	NICE	RATED	6. I.	
FEEDER: BOTTOM			1	Mnimur	nAI.C.=	10,000 A	AMPS .	_				10	AMPSMAIN BREAKER
					B	RANCH	BREAKER	_					
		_		LEFT	PHASE	LOAD	RIGHT PH	ASE	LOAD	L			
DESCRIPTION	Size	P	03	11	12			L1	12	0#	See.	P	DESCRIPTION
SPARE	20	1	P1							P2			SPACE ONLY
SPARE	-20	1	P3						1.1.1	P4			SPACE ONLY
SPARE	20	1	P5	1	Const.		3	00		P6	15	1	LCC1 LIGHTING CONTROL CIRCUIT
SPARE	20	1	P7	And in case of the local division of the loc		1 m			180	P8	20	1	LCC1 MAINT RECEPTACLE
SPACE ONLY	110		P9		No. of Concession, Name		2	00		P10	60	1	BOTTOM SECTION
SPACE ONLY	1.1		P11	Name of Concession, or					100	P12	/	2	
BOITTOM SECTION IS ONK [CONTAC	OFF CO	NTRO	OPE	TH BUILT RATED B	F-IN 60A) Y 4-20m	2-POLEO	CONTACTOR ROL RELAY	R, FE	D FROM	ATHE	TOP S	ECTI (HO	ON BREAKER CKT#P10,P12] A SWITCH]
BUS STOP LIGHTING	20	1	1	100	1		100			2	20	1	SPARE
BUS STOP LIGHTING	20	1	3	Design of the local division of the local di	100					4	20	1	SPARE
BUS STOP LIGHTING	20	1	5	100						6		1.1	SPACE ONLY
SPARE	20	1	7							8			SPACE ONLY
SPACE ONLY	121	1.1	9		-		100			10			SPACE ONLY
SPACE ONLY	1.1	1	11	Contrast,		1			1000	12			SPACE ONLY
				200	100		3	00	180				
				500	280	Total Co	nnected V.A.						
					780	=Total Co	onnected VA B	Stith P	hases	1			
LOAD	CON	NECT	ED	D.FACT.	ES. KVA	AMPS							
LIGHTING	· · · ·	600	NA.	1.25	0.75								
RECEPTACLES (1ST 10000)	1.1	180	AV.	1.00	0.18		180 VA:	=Tota	Recept	tade L	cad		
RECEPTACLES (REMAINING)		-	VA.	0.50	0.00	1	NO	TE:	-			-	
MOTOR (LARGEST)		10	AV 0	1.25	0.00	ALL LIGHTING CONTROL CENTERS AND ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH "ARC-FLASH HAZARD WARNING" LABELS PER THE NATIONAL ELECTRIC CODE NEC 110.16 AND NFPA 70E, AND ALL OTHER LABELS REQUIRED BY NFPA 70.							
MOTORS (REMAINING)		- 10	I VA	1.00	0.00								
ELECTRICAL HEATING		1.1	AVI.	1.25	0.00								
ELECTRICAL MISC		110	AV 9	1.00	0.00								
TOTAL ESTIMATED LOAD	11.1	780	AV G	1	0.93	4							

		MPP2 F	EEDER SCHE	DULE	
KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE
	MPP2-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	
	MPP2-3	120V-HOT.NEU	2#10-THWN CU	RED.WHT	3"HDPE
	MPP2-5	120V-HOT.NEU	2#10-THWN CU	BLU.WHT	30" BELOW GRADE
MPP2-A	GROUND	120/240V-GND	1#10-THWN CU	GREEN	
		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
	MPP2-1	120V-HOT,NEU	2#10-THWN CU	BLK WHT	3" HDPE
1000 D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48* BELOW GRADE
MFF2-0		SPARE PARAL CONDUIT TYP	LELRUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
NDD2 C	MPP2-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	1" PVC
arrz-c	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
	MPP2-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	3"HDPE
0.000	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE
MFF2-U		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
	MPP2-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	2" HDPE
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE
MPP2-E	-	SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
NDD2 E	MPP2-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	1* PVC
ILLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
	MPP2-5	120V-HOT,NEU	2#10-THWN CU	BLU,WHT	2" HDPE
0.000	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE
mr F 2-0		SPARE PARAL CONDUIT TYP	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE.
NDD2 P	MPP2-5	120V-HOT,NEU	2#10-THWN CU	BLU,WHT	1* PVC
MPP2-H	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE

		MPP3 F	EEDER SCHE	DULE	
KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE
	MPP3-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	2110.05
	MPP3-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	
MPP3-A	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 BELOW GRADE
		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE
	MPP3-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	45110.05
	MPP3-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	3"HUPE
MPP3-B	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48 BELOW GRADE
		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE
	MPP3-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	3" HDPE
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE
MPP3-C		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE N.
MPP2 D	MPP3-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	1* PVC
MFF3-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
MPP3.F	MPP3-1	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	1* PVC
millo L	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
	MPP3-5	120V-HOT,NEU	2#10-THWN CU	BLU,WHT	2" HDPE
	MPP3-7	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	36" BELOW GRADE
MPP3-F	GROUND	120/240V-GND	1#10-THWN CU	GREEN	
		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
	MPP3-5	120V-HOT,NEU	2#10-THWN CU	BLU,WHT	2" HDBE
	MPP3-7	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	48" BELOW GRADE
MPP3-G	GROUND	120/240V-GND	1#10-THWN CU	GREEN	TO BELOW GIVE
		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE.
	MPP3-7	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	3" HDPE
MPP3-H	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE
		SPARE PARAL CONDUIT TY	LEL RUN OF 3" COND PE AND DEPTH TO MA	UIT FOR FUTURE U	SE. N.
MPP3J	MPP3-5	120V-HOT,NEU	2#10-THWN CU	BLU,WHT	1" PVC
and 1 ort	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE
MPP3-J	MPP3-7	120V-HOT,NEU	2#10-THWN CU	BLK, WHT	1* PVC
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE



CONDUIT S	COLOR	WIRE SIZE	VOLTAGE	CKT. NUMBERS	KEY
	BLKWHT	2#10-THWN CU	120V-HOT.NEU	MPP7-1	
-	RED.WHT	2#10-THWN CU	120V-HOT.NEU	MPP7-3	
2.4	BLKWHT	2#10-THWN CU	120V-HOT.NEU	MPP7-5	MPP7-A
30 BELO	RED WHT	2#10-THWN CU	120V-HOT NEU	MPP7-7	
1	GREEN	1#10-THWN CU	120/240V-GND	GROUND	
	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-1	
21	RED,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-3	MPP7-B
30 BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	
3*1	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-1	1007.0
48" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-C
3*1	RED,WHT	2#10-THWN CU	120V-HOT NEU	MPP7-3	
48" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-D
2010	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-5	
3 H	RED,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-7	MPP7-E
1 48 BELU	GREEN	1#10-THWN CU	120/240V-GND	GROUND	
3"1	BLKWHT	2#10-THWN CU	120V-HOT,NEU	MPP7-5	U007.5
48" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-F
2*1	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-5	1007.0
36" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-G
2"	RED,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-7	100711
36" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-H
1-1	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-1	10071
30" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP/4
1*1	RED,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-3	1007
30" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP/J
1-1	BLK,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-5	UDD7 V
30" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	MPP7-K
1-1	RED,WHT	2#10-THWN CU	120V-HOT,NEU	MPP7-7	MDD71
30" BELO	GREEN	1#10-THWN CU	120/240V-GND	GROUND	NU-F/-L

MPP7-M

CONDUIT SIZE, TYPE AND DEPTH TO MATCH PARALLEL RUN PER SECTION.

MPP8 FEEDER SCHEDULE

KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT
	MPP8-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	
	MPP8-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	2"
WIFF0-A	MPP8-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	30" BEL
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	
	MPP8-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	
	MPP8-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	2
WIFF0-D	MPP8-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	36" BEL
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	
	MPP8-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	2
MPP8-C	MPP8-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	40" DEL
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	40 DLL
	MPP8-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	2
MPP8-D	MPP8-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	26" BEI
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 DLL
MDD8 E	MPP8-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	1
WITTO-L	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BEL
MDD8 E	MPP8-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	1
WITT O-I	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BEL
MPP8-G	MPP8-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	1
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BEL
MPP8-H		SP/	ARE CONDUIT FOR FU	TURE USE.	
		CONDUIT SIZE, TYPE A	ND DEPTH TO MATCH	PARALLEL RUN PER	SECTION.

MPP9 FEEDER SCHEDULE

KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT
	MPP9-1,3	240V-HOT,HOT	2#6-THWN CU	BLK,RED	
	MPP9-2,4	240V-HOT,HOT	2#6-THWN CU	BLK,RED	
	MPP9-5	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	2"1
WIPP9-A	MPP9-7	120V-HOT,NEU	2#10-THWN CU	RED,WHT	30" BELC
	MPP9-9	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	
	GROUND	120/240V-GND	1#6-THWN CU	GREEN	
MDD0 P	MPP9-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	3" I
MPP9-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELC
MDD0.C	MPP9-5	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	2"1
WIPP9-C	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELC
	MPP9-7	120V-HOT, NEU	2#10-THWN CU	RED,WHT	3" I
MIFF9-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELC
	MPP9-9	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	3"1
WII I S-L	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELC

MPP4 FEEDER SCHEDULE

KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE		
	MPP4-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	2" LIDDE		
MPP4-A	MPP4-P1	120V-HOT,NEU	120V-HOT,NEU 2#10-THWN CU BLK,WI				
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 BEEOW GIGEBE		
	MPP4-1	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	2" DVC		
MPP4-B	MPP4-P1	120V-HOT,NEU	2#10-THWN CU	BLK,WHT			
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	40 DELOW GRADE		
MDD4 C	MPP4-1	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	1" PVC		
WIFF4-0	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE		
	MPP4-P1	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	3" PVC		
MPP4-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE		
	MPP4-P1	120V-HOT,NEU	2#10-THWN CU	BLK,WHT	2" PVC		
WIFF4-E	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE		
	SPARE CONDUIT FOR FUTURE USE.						
MPP4-F		CONDUIT SIZE, TYPE AND D	EPTH TO MATCH I	PARALLEL RUN PER	SECTION.		

MPP5 FEEDER SCHEDULE

KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE			
	MPP5-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT				
MPP5-A	MPP5-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT				
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 BELOW GRADE			
	MPP5-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	2" PVC			
MPP5-B	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE			
MODE	MPP5-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	3" PVC			
MFF9-0	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE			
MPP5-D	MPP5-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	1" PVC			
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE			
MPP5-E	MPP5-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	1" PVC			
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE			
MPP5-F		SPARE	CONDUIT FOR FUT	TURE USE.				
	CONDUIT SIZE TYPE AND DEPTH TO MATCH PARALLEL PUN PER SECTION							

CONDULT SIZE, TYPE AND DEPTH TO MATCH PARALLEL RUN PER S

MPP6 FEEDER SCHEDULE

KEY	CKT. NUMBERS	VOLTAGE	WIRE SIZE	COLOR	CONDUIT SIZE & TYPE			
	MPP6-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT				
MPP6-A	MPP6-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT				
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 BELOW GRADE			
	MPP6-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	3" PVC			
WPP0-D	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE			
MDD6 C	MPP6-3	120V-HOT, NEU	2#10-THWN CU	RED,WHT	3" PVC			
WIFF0-C	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE			
	MPP6-5	120V-HOT,NEU	2#10-THWN CU	BLK,WHT				
MPP6-D	MPP6-7	120V-HOT, NEU	2#10-THWN CU	RED,WHT				
	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30 BELOW GRADE			
MDD6 E	MPP6-5	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	1" PVC			
WIFFO-E	GROUND	120/240V-GND	1#10-THWN CU	GREEN	36" BELOW GRADE			
MDD6 E	MPP6-7	120V-HOT, NEU	2#10-THWN CU	RED,WHT	3" PVC			
WIFF0-F	GROUND	120/240V-GND	1#10-THWN CU	GREEN	48" BELOW GRADE			
MDD6 C	MPP6-1	120V-HOT, NEU	2#10-THWN CU	BLK,WHT	1" PVC			
WIFF0-0	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE			
	MPP6-3	120V-HOT,NEU	2#10-THWN CU	RED,WHT	1" PVC			
WIFF0-II	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE			
MDD61	MPP6-7	120V-HOT, NEU	2#10-THWN CU	RED,WHT	1" PVC			
IVIEP0-I	GROUND	120/240V-GND	1#10-THWN CU	GREEN	30" BELOW GRADE			
MPP6-J		SPAR	CONDUIT FOR FU	TURE USE.				
		CONDUIT SIZE, TYPE AND	DEPTH TO MATCH	PARALLEL RUN PER	R SECTION.			

CALCAULATED ADDITIONAL LOAD AT 300W/200S ELECTRICAL VAULT PANEL

	VII/2000	LELÓ	INQAL	TAVEL	ANCE
1) IRRIGATIC	ON CONTROLLE	R ON NEW	120V+1PH CIR	CUIT WITH 20	A BRFAKER:

(1) IRRIGATION CONTROLLER	-135VA
NEC DEMAND FACTOR: 25%	=125VA
(1) TOTAL	= 260V A
260VA/120V = 2.16 AMP	
{2} EVSE CHARGING STATIONS O BRFAKERS:	IN (2) NEW 240V-1PH CIRUITS WITH (2) 40A/2P
(1) EVSE CHARGING STATION	-6656VA
(1) NEC DEMAND FACTOR: 25%	=125VA
(1) TOTAL	=6781VA @ 240V-1PH
(2) TOTAL	=2*6781VA = 13562VA
13562VA/240VA - 56.51 AMP	

TOTAL NEW INSTALLED LOAD = 13822VA 58.67 AMP

* CONSULT ELECTRICAL ENGINEER IF PANEL IS 208V-3PH

CALCAULATED ADDITIONAL LOAD AT 125W/200S ELECTRICAL VAULT PANEL [3] IRRIGATION CONTROLLERION (3) NEW 120V-1PH C ROUITS WITH (3) 20A-1P-BREAKERS: 11 IRRIGATION CONTROLLER =135VA NEC DEMAND FACTOR: 25% =125VA 1 TOTAL =260VA 3| TOTAL =3*260VA = **780VA**

780VA/120V = 6.50 AMP

TOTAL NEW INSTALLED LOADS - 780VA 6.50 AMP

* CONSULT ELECTRICAL ENGINEER IF PANEL IS 208V-3PH.

		PREPARER:
		KE KE
SIZE & TYPE		SALT LAKE CITY
HDPE OW GRADE		
PVC OW GRADE		349 SOUTH 200 EAST, SUITE 100 SALT LAKE CITY, UT 84111-2836 TELEPHONE: 801-535-7961 FAX: 801-535-6093
* PVC OW GRADE		WWW.SLCGOV.COM PREPARER CONSULTANTS:
" PVC OW GRADE		CLANTON & ASSOCIATES
HDPE OW GRADE		LIGHTING DESIGN AND ENGINEERING
PVC		
PVC		
PVC		
OW GRADE * PVC		PROFESSIONAL SEAL:
OW GRADE		
		PROJECT IDENTIFICATION:
SIZE & TYPE		200 SOUTH RECONSTRUCTION
HDPE OW GRADE		400 W - 200 E Phase 2
' PVC OW GRADE		<u></u>
' PVC OW GRADE		100% DESIGN
' PVC OW GRADE		PROJECT OWNER:
' PVC OW GRADE		SALT LAKE CITY Corporation
' PVC OW GRADE		451 SOUTH STATE STREET
' PVC OW GRADE		SALT LAKE CITY, UT 84111-2836 WWW.SLCGOV.COM
SIZE & TYPE		
HDPE OW GRADE		MARK DATE DESCRIPTION
HDPE		
OW GRADE		
OW GRADE		DRAWN BY: J. EHNERT
HDPE OW GRADE		CHECKED BY: D. SANDERS COPYRIGHT:
OW GRADE		SHEET TITLE:
		FEEDER SCHEDULES
	BlueStakesof	SHEET IDENTIFIER:
	Bluestakes.org	BINDING ORDER



October 15th, 2024

RMSS-52720-028

Mr. Dean Hansen Manager of Systems Engineering 2264 South 900 West Salt Lake City, UT 84119

Reference: Utah Transit Authority - Systems On-Call Services

Subject: 200 South Bus Comm and Fiber

Dean,

Rocky Mountain Systems Services (RMSS) is pleased to provide a proposal for incorporating fiber connectivity for Phase II bus shelters along the 200 South Corridor between 400 West and 200 East.

Our lump sum price for this proposal is \$290,832.04

RMSS recommends that UTA include a provisional sum amount of **\$50,000.00** for potential material escalation and unidentified parts. This provisional sum is also intended to cover any conduit paths that are not adequately connected to completed fiber and power paths by Salt Lake City. Any unused amount of this provisional sum amount will be deducted from the contract upon substantial completion of the task order.

The grand total amount including the provisional sum amount is \$340,832.04

The Scope of Work covered in this proposal is as follows:

This Scope of Work entails the procurement, installation, and testing of fiber optic cables at ten (10) Phase II bus stop locations along 200 South, with the goal of connecting all nodes to the FLHQ IT main center.



Procurement

This Scope of Work assumes materials in the table below:

Generation Cable	Part #	Unit Cost	Quantity	Lead Time
48FOC. SMF-28 ULTRA FIBER,	CORNING	FT	12,000	4-5 Weeks
LOOSE TUBE, MINIXTEND	048ZM4-T3F22A20			
MICRODUCT - FUTUREPATH	DURALINE	FT	12,000	2-3 Weeks
LOCATABLE W/ ORANGE	10010083			
HDPE - 0.020-in SHEATH, 1-WAY x				
18/14 mm				
CO MD 18/14MM STRAIGHT	DURALINE	EA	12	2-3 Weeks
COUPLER	20001518			
HT MD 18MM END CAP	DURALINE	EA	60	2-3 Weeks
	20001485			
FS				
Fiber Optical Splice Tray 24 Fusion	FHD-FOSMF-24F	EA	10	In Stock
for FHD Rack Mount Fiber Enclosure	#64246			
FHD Blanking Fiber Adapter Panel	FHD-FAPB #35526	EA	10	In Stock
FHD Blanking Fiber Adapter Panel,	FHD-	EA	10	In Stock
12 Fibers OS2 Single Mode 6x SC	FAP6SCDXSMF			
UPC Duplex (Blue)	#35484			
FHD High Density 1U Rack Mount	FHD-1UFMT-N	EA	10	In Stock
Enclosure Unloaded	#96427			

RMSS and our electrical subcontractor will procure AC power distribution finished conduit, circuit cabling, and overcurrent devices required for power lighting and communication equipment at the ten bus stop locations.

RMSS is using underground splice enclosures purchased under a separate task order.

Construction

It is important to note that SLC is responsible for installing conduits and power cables from the meter to the conduit stub on the bus stop island. If UTA opts to provide power to each piece of equipment individually with separate breakers, additional wire will be needed from the meters to the bus stops. An additional power circuit breaker load panel might also be necessary at the bus stops.

RMSS will perform the following installation under the scope of this proposal:

- Installation of a single 18/14mm micro duct along the main duct bank
- Installation of 48-strand Single-Mode Fiber Optic Cable including tracer wire
- Installation of NEMA Boxes provided by others
- Installation of Fiber Distribution Panels at ten (10) station stop locations
- Splice Fibers at each bus stop location described in the table below, and provide any necessary spares:
- RMSS will terminate the following fibers at each location as described below:



Location	# Fiber Terms	Underground Splices
FLHQ	48	48
200 S & 300 W, SW corner	24	24
200 S & 300 W, NE corner	24	24
200 S & 200 W, NE corner	24	24
200 S & 200 W, SW corner	24	24
200 S & Main, NW corner	24	24
200 S & Main, SW corner	24	24
200 S & 200 E, SW corner	48	48
200 S & W Temple, SW corner	24	24
200 S & State St, NE corner	24	24
200 S & State St, SE corner	24	24

- Label all strands of fiber optics that are in service
- Install / mount and provide power to the following equipment:
 - Network Equipment
 - Bus Stop Lighting
 - Digital Smart Signs

Work will be performed at the following bus stop locations:

- 200 S & 300 W, SW corner
- 200 S & 300 W, NE corner
- 200 S & 200 W, NE corner
- 200 S & 200 W, SW corner
- 200 S & Main, NW corner
- 200 S & Main, SW corner
- 200 S & 200 E, SW corner
- 200 S & W Temple, SW corner
- 200 S & State St, NE corner
- 200 S & State St, SE corner

Coordination and deliverables

- Coordination:
 - o Test plan
 - Quality inspection and acceptance
 - Coordinate with UTA to develop High level design for each location. Design to include:
 - Description of fiber cable and conduit sizes
 - Description of buffers
 - Description of fiber path through UDOT spare conduits
 - Description of junction and termination points
 - Description of conduit color
 - Traffic coordination with SLC and UDOT
- Deliverables:



SUBMITTAL ID	DELIVERABLE DESCRIPTION	REV LEVEL
SUB-PTO-028-001	Fiber test documents	N/A
SUB-PTO-028-002	Product submittals	N/A
SUB-PTO-028-003	High-Level design documents	IFC

Project Schedule

The project schedule shown below provides approximate durations of the Scope of Work. Please note that this schedule is subject to change due to unforeseen circumstances, delays in approvals and procurement.

PROJECT SCHE	DULE										
	Notos	Dur (mo)									
	Notes	Dui (iiio)	1	2	3	4	5	6	7	8	9
Scope Definition		1.5	1	0.5							
Proposal		1.0		1							
Approvals		3.0			1	1	1				
Procurement		1.0						1			
Construction		1.0							0.5	0.5	
Closeout		1.0		1				1		0.5	0.5
Systems Testing		0.0									
Substantial Completion		0.0									
Final Completion		0.0									
Total Project Duration		9.0	1	1	1	1	1	1	1	1	1

Capital Assets

Forty-eight strand SMF cable, covering a total of 12,000 linear feet. The Contractor will supply UTA with part numbers, serial numbers, and unit cost for all capital assets created as part of this project.

Assumptions

- 1. UTA to get approval for RMSS use of UDOT spare conduit pathway within in their duct bank
- 2. RMSS reserves the right to recover costs that exceed the provisional sum amount for changes in material costs that occur while awaiting task order execution and issuance, or if additional duct bank connections are required if SLC does not connect all locations, to complete fiber and power paths.

Exclusions

- 1. The following scope to be provided by UTA IT Network Department
 - Procurement of network switches
 - Installation of network switches
 - Configuration of network switches
 - Connection of fiber jumper cables to the ethernet switch
 - Labeling of all patch cables that are in service if necessary
 - Procurement of NEMA communication boxes and din rail
 - Procurement of digital signs



- Procurement of mounting brackets for digital signs
- Configuration of digital signs
- Provide RMSS with detailed information to ensure the precise installation of hardware at the designated locations
- 2. Salt Lake City's scope is to install new conduit from the UDOT's Comm boxes to the UTA Bus shelters for every Bus platform

This proposal is valid for 60 days, unless extended in writing by RMSS.

If you need any additional information, please don't hesitate to contact us.

Sincerely,

Devin Bombalicky-Tingle Dit: C=US, E=dbombalickyt-Tingle Dit: C=US, E=dbombalickyt-Tingle@modrallsystems.com. O=Modern Rallway Systems. CN=Devin Bombalicky-Tingle Date: 2024 10.15 15: 15: 85-06000

Devin Bombalicky-Tingle Field Engineer Rocky Mountain Systems Services

cc:

Marshall Wilson – RMSS Anthony Ortolani – RMSS Josh LaFleur – RMSS Doug Jones – RMSS

Our pricing is in U.S. Dollars, F.O.B. Salt Lake City UT, and excludes all allowances, taxes, tariffs, licenses, and permits

Attachments:

- 200 South Bus Shelter Fiber Plan
- 200 South Bus Shelter Fiber Connections

UTA - On Call PTO 028 - 200 S Bus Stop Comm & Fiber Task Order Estimate Summary



10/11/2024

Subcontractors	\$ 163,285.90
Materials	\$ 17,614.98
Administrative	\$ 41,079.03
Design/Engineering	\$ 4,231.23
Construction/Testing	\$ 27,832.73
Other Costs and Fee	\$ 36,788.17
Total:	\$ 290,832.04
Provisional Sum	\$ 50,000.00
Grand Total Including Provisional Sums	\$ 340,832.04



October 15th, 2024

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Devin Bombalicky-Tingle Dit C=US, E=dombalickytinge@modralisystems.com. O=Modern Railway Systems. CN=Devin Bombalicky-Tingle Date: 2021 10.15 16:156-04000

Devin Bombalicky-Tingle Field Engineer Rocky Mountain Systems Services

cc:

Marshall Wilson – RMSS Anthony Ortolani – RMSS Josh LaFleur – RMSS Doug Jones – RMSS

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