

ADDENDUM NO. 1

April 18, 2014

St. Charles County Transportation Department

Gateway Green Light  
CMAQ 7302 (638)  
Bid # 14-099

This Addendum No. 1 modifies original issued bid documents as follows:

*Bid Form*

This addendum deletes Bid Item 212.00 COORDINATION PROGRAMMING from the project. A revised Bid Form, dated April 18, 2014, is included.

*Plan Set*

This addendum replaces Sheet G-1, Summary of Quantities & General Notes, with a revised sheet noting elimination of Bid Item 212.00 COORDINATIONPROGRAMMING from the project. Revised plan sheet is dated April 18, 2014. A copy of the revised sheet is attached for reference.

**BID FORM**

REVISED 4-18-14

**Federal Project No. CMAQ 7302 (638)**

**Project Title: Gateway Green Light Phase 2 - Package 2  
Fiber and Network improvements**

**BID PACKAGE #2 - Fiber and Network Improvements**

Line	Item No.	Item Description	Unit	Quantity	Unit Price	Extension
200.00	618-10.00	MOBILIZATION	LS	1		
202.00	616-10.05	CONSTRUCTION SIGNS	Sq Ft	170		
204.00	616-10.40	FLASHING ARROW PANEL	Each	2		
206.00	616-10.34	DIRECTIONAL INDICATOR BARRICADE	Each	20		
208.00	612-30.00a	TRUCK OR TRAILER ATTENUATOR	Each	1		
210.00	616-10.25	CHANNELIZER (TRIM LINE)	Each	225		
212.00	910-99.02	COORDINATION PROGRAMMING	Each	65	NA	NA
214.00	910-99.03	12 CT SMFO CABLE	LF	675		
216.00	910-99.03	48 CT SMFO CABLE	LF	109,950		
218.00	910-99.03	REMOVE EXISTING FO CABLE AND REPLACE WITH 48 CT SMFO CABLE	LF	4,490		
220.00	910-99.02	FIBER OPTIC JUMPER (ST to ST)	Each	100		
222.00	910-99.02	FIBER OPTIC EQUIPMENT PATCH CABLE (St to LC)	Each	320		
224.00	910-99.02	LEGACY FIBER TERMINATION/SPLICE (PER LOCATION)	Each	82		
226.00	910-99.02	GGL FIBER SPLICING (PER SPLICE)	Each	90		
228.00	910-99.02	GGL FIBER TERMINATION (PER TERMINATION)	Each	1,242		
230.00	910-99.02	FURNISH & INSTALL ETHERNET LAN SWITCH (2 DIRECTIONAL)	Each	56		
232.00	910-99.02	ETHERNET LAN SWITCH (2 DIRECTIONAL) EXPANSION MODULE	Each	60		
234.00	910-99.02	ETHERNET LAN SWITCH (4 DIRECTIONAL)	Each	17		
236.00	910-99.02	ENTERPRISE LAYER III SWITCH	Each	7		
238.00	910-99.02	SFP (10KM)	Each	285		
240.00	910-99.02	SFP (40KM)	Each	30		
242.00	910-99.02	ETHERNET LAN SWITCH (2 DIRECTIONAL) INSTALL ONLY	Each	58		
244.00	910-99.02	TYPE 336S GROUND MOUNT CABINET (CROSS CONNECT)	Each	9		
246.00	910-91.00	BASE, CONCRETE	Each	9		
248.00	910-52.00	CONDUIT, 2 IN RIGID, IN TRENCH	LF	52,547		
250.00	910-72.00	CONDUIT, 2 IN, RIGID, PUSHED	LF	9,563		
252.00	910-75.02	CONDUIT, 2 IN, ON STRUCTURE	LF	240		
254.00	910-99.02	COMMUNICATIONS SYSTEM MANAGEMENT HARDWARE AND SOFTWARE	Each	1		
256.00	910-99.01	ITS ASSET MANAGEMENT TOOL	LS	1		
				<b>Bid Package #2 Base Bid Total</b>		

**BID FORM**

**Federal Project No. CMAQ 7302 (638)**

**Project Title: Gateway Green Light Phase 2 - Package 2**  
**Fiber and Network improvements**

Line	Item No.	Item Description	Unit	Quantity	Unit Price	Extension
200.00	618-10.00	MOBILIZATION	LS	1		
202.00	616-10.03	CONSTRUCTION SIGNS	Sq Ft	170		
204.00	616-10.40	FLASHING ARROW PANEL	Each	2		
206.00	616-10.34	DIRECTIONAL INDICATOR BARRICADE	Each	20		
208.00	612-30.00a	TRUCK OR TRAILER ATTENUATOR	Each	1		
210.00	616-10.25	CHANNELIZER (TRIM LINE)	Each	225		
212.00	910-99.02	COORDINATION MEETING	Each	69		
214.00	910-99.03	12 CT SWFO CABLE	LF	675		
216.00	910-99.03	48 CT SWFO CABLE	LF	109,950		
218.00	910-99.03	REMOVE EXISTING FO CABLE AND REPLACE WITH 48 CT SWFO CABLE	LF	4,450		
220.00	910-99.02	FIBER OPTIC JUMPER (S1 to S7)	Each	100		
222.00	910-99.02	FIBER OPTIC EQUIPMENT PATCH CABLE (S1 to LC)	Each	320		
224.00	910-99.02	LEAD-4V FIBER TERMINATIONS/PLCE (PER LOCATION)	Each	82		
226.00	910-99.02	GGL FIBER SPLICING (PER SPLICE)	Each	90		
228.00	910-99.02	GGL FIBER TERMINATION (PER TERMINATION)	Each	1,242		
230.00	910-99.02	FURNISH & INSTALL ETHERNET LAN SWITCH (2 DIRECTIONAL)	Each	56		
232.00	910-99.02	ETHERNET LAN SWITCH (2 DIRECTIONAL) EXPANSION MODULE	Each	60		
234.00	910-99.02	ETHERNET LAN SWITCH (4 DIRECTIONAL)	Each	17		
236.00	910-99.02	ENTERPRISE LAYER III SWITCH	Each	7		
238.00	910-99.02	SFP (10KM)	Each	285		
240.00	910-99.02	SFP (40KM)	Each	30		
242.00	910-99.02	ETHERNET LAN SWITCH (2 DIRECTIONAL) INSTALL ONLY	Each	58		
244.00	910-99.02	TYPE 386S GROUND MOUNT CABINET (CROSS CONNECT)	Each	9		
246.00	910-91.00	BASE, CONCRETE	Each	9		
248.00	910-52.00	CONDUIT, 2 IN RIGID, IN TRENCH	LF	52,547		
250.00	910-72.00	CONDUIT, 2 IN RIGID, PUSHED	LF	9,363		
252.00	910-75.02	CONDUIT, 2 IN ON STRUCTURE	LF	240		
254.00	910-99.02	COMMUNICATION SYSTEM MANAGEMENT HARDWARE AND SOFTWARE	Each	1		
256.00	910-99.01	ITS ASSET MANAGEMENT TOOL	LS	1		
				Bid Package #2 Base Bid Total		

## GENERAL NOTES

1. ALL WORK WILL BE COMPLETED WITHIN THE EXISTING ROADWAY RIGHT-OF-WAY. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY AND KEEP INSTALLATION OF ALL EQUIPMENT AND DEVICES WITHIN THE EXISTING ROADWAY RIGHT-OF-WAY.
2. FOR STREET COMMUNICATION REQUIREMENTS SEE COMMUNICATION PLANS, DETAILS AND SPECIAL PROVISIONS.
3. CONTRACTOR SHALL MAINTAIN 2' CONDUIT CLEARANCE FROM ALL UNDESIGNED FEATURES EXISTING WITHIN THE RIGHT-OF-WAY. ANY LANDSCAPING DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
4. CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH OTHER CONTRACTORS AND OTHER ONGOING PROJECTS IN THE AREA.
5. ALL UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING UTILITIES AND LOCAL SERVICES AND SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.
6. PROPOSED CROSS CONNECT CABINET/PULL BOX LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS.
7. LOCATION OF ITS EQUIPMENT ON THE PLANS BY THE ENGINEER HAS BEEN PERMITTED WITHOUT FULL CONSIDERATION OF EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ANY CONFLICTS WITH EXISTING UTILITIES AT SITES IN THE FIELD PRIOR TO INITIATION OF CONSTRUCTION PER SITE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ENGINEER UPON DETERMINATION OF ANY UTILITY CONFLICTS.
8. ALL ITS EQUIPMENT CALLED OUT BY PLANS AND SPECIFICATIONS AS "INSTALL," "REMOVE," "REPAIR," "REPLACE," "TEST," "INSPECT," "VERIFY," "ADJUST," "TRANSPORTATION," INSULATION AND TESTING OF EQUIPMENT FURNISHED TO THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
9. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES SHALL BE PRE-APPROVED BY THE ENGINEER.
10. ALL WORK SHALL INCLUDE THE RESTORATION OF ANY DISTURBED AREAS AS DIRECTED BY THE ENGINEER. ALL GRADING WORK SHALL PROVIDE POSITIVE DRAINAGE.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY EXISTING CONDUIT, CONDUCTORS OR OTHER FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING IMPROVEMENTS REMOVED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR, WITH NO ADDITIONAL COMPENSATION. EXISTING CONDUIT OR CONDUCTORS DAMAGED PRIOR TO CONTRACTOR'S OPERATIONS AND DISCOVERED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE DIRECTION OF THE ENGINEER, WITH NO ADDITIONAL COMPENSATION.
12. THE PLANS DEPict CONDUIT ROUTING IN SCHEMATIC FORM ONLY. THE CONTRACTOR SHALL DETERMINE FINAL ROUTING BASED ON ACTUAL FIELD CONDITIONS PRIOR TO CONSTRUCTION AT EACH SITE INCLUDING UTILITY LOCATION SERVICE MARKINGS, TO PREVENT CONFLICTS WITH EXISTING UTILITIES, CABLE AND FIBER LENGTHS, INCLUDING QUANTITIES FOR SLACK AND SPlicing REQUIREMENTS AS DESCRIBED IN THE SPECIFICATIONS, WILL BE VERIFIED PRIOR TO PULLING AND WILL BE PAID FOR AT THE UNIT BID PRICE BASED ON THE ACTUAL REQUIRED LENGTH.
13. PULL ROPES ARE REQUIRED IN ALL EMPTY CONDUIT CELLS. PULL ROPES SHALL BE POLYPROPYLENE WITH A MINIMUM TENSILE STRENGTH OF 600 POUNDS.
14. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING OF CONDUIT AND LOCATION OF NEW AND EXISTING PULL ROSES PRIOR TO SUBMITTAL, IF BID TO DETERMINE THE TYPES AND EXTENT OF INCIDENTAL REMOVAL, RELOCATION AND REPLACEMENT ITEMS TO BE INCLUDED IN THE UNIT PRICE OF CONDUIT AND PULL BOXES.
15. WARNING TAPE IS REQUIRED IN ALL TRENCHES CONTAINING CONDUIT.
16. JACKETED 0.10" THICK SOLID BLUE LOCATOR WIRE SHALL BE PLACED CONTIGUOUSLY IN ALL UNDERGROUND NON-METALLIC CONDUITS BOUNDED TO GROUNDING ROOS WITHIN A PULL BOX. APPROVED LOCATOR WIRE SHALL BE MOUNTED TO THE SIDE WALL OF EACH PULL BOX.
17. ALL NON-METALLIC CONDUIT SHALL BE PULLED, OR OTHERWISE INSERTED, THROUGH THE RIGID CONDUIT IN ALL FOUNDATIONS. NON-METALLIC CONDUIT SHALL BE INSERTED TO THE TOP OF EACH FOUNDATION.
18. THE MINIMUM MANUFACTURER'S SPECIFICATIONS OR THE NATIONAL ELECTRICAL CODE (NEC) TABLE.
19. CONTRACTOR MAY BORE OR HORIZONTAL DRILL WHEREVER TRENDING IS SHOWN.
20. SEE SPECIAL DETAILS FOR ADDITIONAL NOTES AND REQUIREMENTS.
21. HIGH VOLTAGE POWER LINES MAY BE WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMANCE WITH ALL STATE, LOCAL, FEDERAL, UTILITY AND CONTRACT REQUIREMENTS. ST. CHARLES COUNTY HAS NO CONTROL OVER THE MEANS, METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF WORK, AND SAFETY PRACTICES USED WHEN WORKING IN, ON, OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES AS THESE ITEMS ARE THE RESPONSIBILITY OF THE PARTIES CONTROLLING THE PHYSICAL PERFORMANCE OF THE WORK.
22. ALL GROUNDING SYSTEMS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). THE CONTRACTOR SHALL FOLLOW SPECIFICATIONS, FOLLOWING APPLICABLE NEC REQUIREMENTS FOR INSTALLATION OF ALL PROJECT MATERIALS. THE CONTRACTOR SHALL PROVIDED, GROUND ALL EQUIPMENT CABINET AND GROUND ROOS PER APPLICABLE STANDARDS OR AS DIRECTED BY ENGINEER.
23. THE CONTRACTOR SHALL PROVIDE A FLAGMAN DURING ALL HOURS OF OPERATION WHEN CONTRACTOR OPERATIONS ARE WITHIN 25 FEET OF ANY ACTIVE RAIL LINE, WITH NO ADDITIONAL COMPENSATION.
24. ANY SITE GRADING REQUIRED TO ADHERE REQUIREMENTS SHOWN ON THESE PLANS SHALL BE DONE IN ACCORDANCE WITH MODOT STANDARD DRAINAGES AND SPECIFICATIONS AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT (NO DIRECT PAYMENT).
25. ALL CONDUITS SHALL BE NEW UNDERGROUND CONDUITS. ALL CONDUITS SHALL BE FLEXIBLE EXCEPT FOR RIGID CONDUIT BETWEEN POWER SUPPLY PEDestal AND DIRECT SOURCE OF POWER OR BUILDING PENETRATIONS.

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26. THE CONTRACTOR SHALL MAINTAIN POWER AND COMMUNICATIONS TO ALL EXISTING ITS DEVICES. THE ONLY DEVIATIONS SHALL BE WHEN THE CONTRACTOR IS CUTTING OVER FROM THE EXISTING COMMUNICATIONS LINK TO THE IMPROVED COMMUNICATIONS LINK. THESE CUT OVERS SHALL BE MADE ONLY AFTER ALL EXISTING COMMUNICATIONS LINES HAVE BEEN OPERATIONAL AND HAVE BEEN SUCCESSFULLY TESTED. NOTIFY THE ENGINEER AT LEAST 2 DAYS BEFORE ANY CUT OVER.
27. ALL ELECTRICAL CABLES IN PULL BOXES AND EQUIPMENT CABINETS SHALL BE PROVIDED WITH INDIVIDUAL LABELS WITH PHASE AND CIRCUIT IDENTIFICATIONS. THE TYPE OF LABELS SHALL BE APPROVED BY THE ENGINEER.
28. EXISTING SIGNAL POLE, CONTROLLER AND PULL BOX LOCATIONS ARE APPROXIMATE AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR (NOT ADDITIONAL PAYMENT).
29. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION'S "MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2017" OR LATEST VERSION.
30. ALL BRIDGE CONDUIT RUNS SHALL NOT EXCEED 270 DEGREES OF BENDS, CONDUITS OR OTHER REMOVABLE FITTINGS SHALL BE INCLUDED IN COST OF CONDUIT.
31. ALL CONDUITS SHALL BE NEW SINGLE CELL CONDUITS ON BRIDGES SHALL BE ALUMINUM.
32. THE CONTRACTOR SHALL FIELD REVIEW NECESSARY ROUTING AND MOUNTING HARDWARE, INCLUDING BRIDGE HANGERS, FITTINGS, EXPANSION JOINTS AND JUNCTION BOXES FOR ALL EXTERNALLY MOUNTED CONDUITS PRIOR TO SUBMITTAL OF BID. THE TYPE, MAKE, SIZE AND EXTENT OF INCIDENTAL ITEMS TO BE INCLUDED IN THE UNIT PRICE OF THE FITTINGS SHALL BE DETERMINED BY THE CONTRACTOR.
33. EXPANSION FITTINGS SHALL BE PROVIDED WHEN CONDUIT PASSES ACROSS EXISTING DEVICES AND FILED JOINTS ON BRIDGES INCLUDING FILED JOINTS IN SAFETY BARRIER CURBS. THE DISTANCE BETWEEN EXPANSION FITTINGS SHALL NOT BE GREATER THAN 150 FEET. EXPANSION FITTINGS ON CONDUIT SHALL PROVIDE A MINIMUM MOVEMENT IN EITHER DIRECTION OF 4" AT OPEN JOINTS. BETWEEN MINIMUM MOVEMENT AND SPHERICAL JOINTS BECOMING A FLAT JOINT. THE GROUND SHALL BE LEVEL AND SPHERICAL JOINTS BECOMING A FLAT JOINT. WHEN THE GROUND IS NOT LEVEL, THE JOINT SHALL BE ADJUSTED TO BE FLAT. THE JOINT SHALL BE USED IN CONDUIT MATERIAL. A TIGHT FITTING METAL CONDUIT SHALL BE USED IN LOCATIONS WHERE CONDUIT CROSSES OVER BRIDGE SUPERSTRUCTURE, SUBSTRUCTURE OR SIGN STRUCTURES, OR AS OTHERWISE SHOWN ON THE PLANS.
34. THE GALVANIZED CONE EXPANSION ANCHOR SYSTEM SHALL BE USED FOR ATTACHING CONDUIT SUPPORTS AND JUNCTION BOXES TO STRUCTURAL CONCRETE.
35. TRENCH EXCAVATION AND DIRECTIONAL DRILLING REQUIRED FOR THE INSTALLATION OF CONDUITS SHALL INCLUDE THE RESTORATION OF THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS. THE RESTORATION SHALL INCLUDE FENCE REMOVAL AND REPLACEMENT, SIGN RELOCATION, UNDERPAVING, AND RIPRAP OR OTHER EXISTING SLOPE PROTECTION APPROPRIATE.
36. SEE SPECIFICATION FOR FIBER/CONDUIT INSTALLATION INFORMATION AND FOR INFORMATION REGARDING FIBER TERMINATION.
37. SEE ASP N FOR RADIO DEPLOYMENT DETAILS AND QUANTITIES.

**REMOVE BID ITEM**  
**4/18/14**

**GENERAL NOTES**  
**SHEET 1 OF 1**