

ADDENDUM NO. 2

To the Contract Document and Project Specifications for the

COUNTY ROAD 4 IMPROVEMENTS PROJECT

Elkhart County Highway

April 29, 2021

To: All holders of the contract documents for the above project.

The items in this addendum are to become a part of the original documents as if included therein. The remainder of the original contract document is to remain in its entirety. This Addendum modifies the Contract Documents and Specifications as follows:

- Part 1 – General Clarifications
- Part 2 – Specifications
- Part 3 – Construction Drawings/Details
- Part 4 - Appendices

PART 1 – General Clarifications

1. This addendum includes soil boring logs for the project and an updated Bid Form.

PART 2 – SPECIFICATIONS - CLARIFICATION

1. Technical Specs Item 6 – Pavement Removal
Line Item 6.1 – Pavement Removal, Mainline, Full Depth quantity has been revised to include all HMA pavement removal.
2. Technical Specs Item 8 – Hot Mixed Asphalt (HMA) Pavement
All proposed Hot Mix Asphalt pavement sections shall be Type ‘B’. Line Items 8.2 and 8.4 shall be changed from Type ‘C’ pavement to Type ‘B’. Refer to the attached revised Bid Form.
3. Technical Specs Item 18 – Traffic Signal Improvements
The following clarification is offered in response to questions received regarding proposed Traffic Signal Improvements
 - a. Mast Arms – Mast arms shall be truss style and shall be constructed with steel. Mast arm finish is to be galvanized.
 - b. Luminaire Arms – Luminaire arms shall be steel monotube. Steel finish shall be galvanized.
 - c. Luminaire Feeder – Cable is not shown in the plans and portions can be attached along the proposed span wire.
 - d. Conduit Installation for Traffic Signal – 2” PVC conduit shall be extended from CR 17 to CR 15, as indicated on Plan Sheets C101 thru C105. Handholes shall be provided at CR 15 and Atlas Drive. Fiber optic cable west of the CR 17 intersection shall not be included at this time.

- e. The County will not require a new MMU, provided existing equipment can handle the proposed improvements. The current MMU is a Reno 1600-G. The Contractor will be responsible for providing equipment capable of making the proposed signal function as intended.
- f. The Contractor shall provide a complete four (4) unit FLIR system.
- g. The Contractor shall provide a controller with a touch screen.
- h. The County will not require a new fiber switch.
- i. The advanced detection preformed loop lead-in shall go directly to the hand hole with no detector housing in the road. The loop shall be installed in the eastbound through lane.

PART 3 – CONSTRUCTION DRAWING – CLARIFICATION

1. Plan Sheet C106

Bid documents indicate that the proposed water main crossing of CR 17 shall be by jack and bore with a 20” steel casing pipe. The City of Elkhart and Elkhart County Highway will allow for the proposed water main crossing to be completed by horizontal directional drilling with a 24” DR 11 HDPE casing pipe. The HDPE casing pipe shall be fused. The carrier pipe shall remain Class 52 Ductile Iron.

Refer to the attached detail for the HDPE casing pipe.

2. Plan Sheet C602

Note 14 states that “All signal structure and wiring shall be installed in accordance with INDOT Specification and materials.”

Note 15 states that “Signal pole foundations shall be designed by the Pole Manufacturer and certified/stamped by a Registered Engineer.

These notes have been perceived to be contradictory. However, Note 14 still stands with respect to “installation” as specified for materials and specifications, which does not exclude Note 15, which refers to “design” only.

PART 4 – Appendices

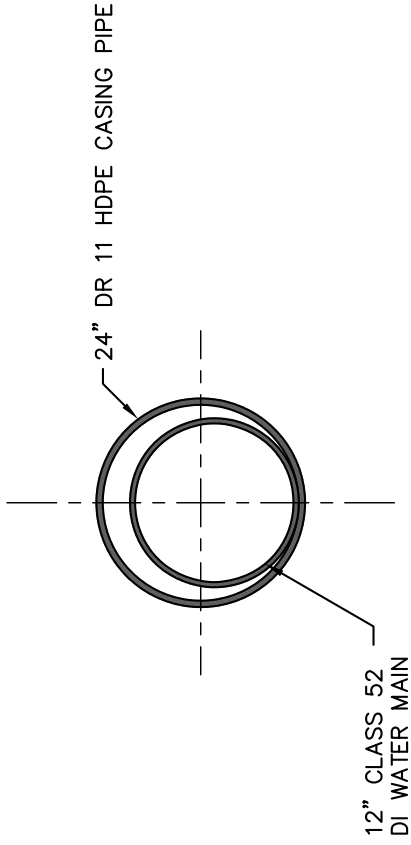
1. Appendix A – Soil Boring Logs and Map

- A. **ADD:** Appendix A – Soil Boring Logs. Soil borings were performed in locations indicated on Plan Sheets C103 and C104.

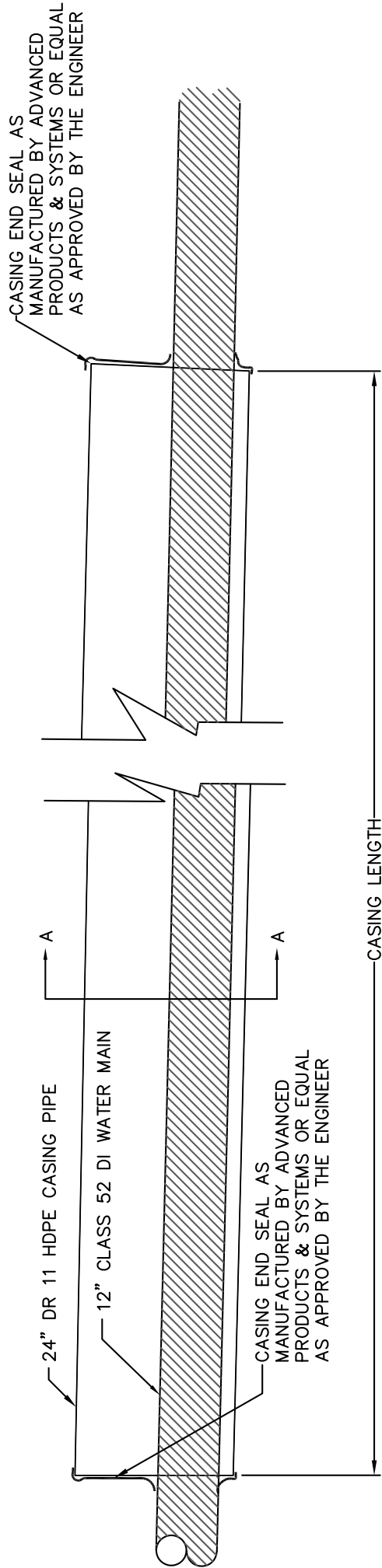
A signed copy of this addendum shall be submitted with the proposal.

Acknowledged by: _____ <div style="text-align: center; margin-top: 5px;">Signature of Bidder</div>	_____ <div style="text-align: center; margin-top: 5px;">Date</div>
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SECTION A-A



CASING PIPE INSTALLATION DETAIL

NOT TO SCALE

COUNTRY ROAD 4 IMPROVEMENTS PROJECT

ELKHART COUNTY HIGHWAY DEPARTMENT

ADDENDUM #2 - FIGURE 1

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ELKHART COUNTY BOARD OF COMMISSIONERS
COUNTY ROAD 4 IMPROVEMENTS

ITEMIZED PROPOSAL - REVISED

Item No.	Quantity	Unit	Description	Unit Price	Total Price
1.1	1	LSUM	Clearing Right of Way		
2.1	1	LSUM	Construction Staking		
3.1	1	LSUM	Site Grading		
4.1	1	LSUM	Maintenance of Traffic		
5.1	1	LSUM	Erosion Control		
6.1	7,300	SYD	Pavement Removal, Mainline, Full Depth		
6.2	700	SYD	Pavement Removal, Approach, Full Depth		
6.3	445	SYD	HMA Surface Milling		
7.1	4,530	TON	Dense Graded Subbase, 6 in, Compacted Aggregate, INDOT NO 53, Over Compacted Subgrade		
8.1	2,030	TON	HMA Base, Type B, 330#/SYD, Mainline Pavement		
8.2	2,030	TON	HMA Intermediate, Type B, 330#/SYD, Mainline		
8.3	36	TON	HMA Intermediate, Type B, 330#/SYD, Shoulder		
8.4	1,015	TON	HMA Surface, Type B, 165#/SYD, Mainline Pavement		
8.5	18	TON	HMA Surface, Type B, 165#/SYD, Shoulder Pavement		
8.6	12,260	SYD	Asphalt for Tack Coat		
9.1	1,115	SYD	PCCP for Approaches, 6 in		
10.1	4,450	LFT	Concrete Curb and Gutter		
10.2	1,152	LFT	Concrete Curb		
11.1	12	EA	Storm Inlet, 30" Diam		
11.2	6	EA	Catch Basin, 4' Diam		
11.3	5	EA	Storm Manhole, 4' Diam		
12.1	138	LFT	12" PVC Storm Sewer		
12.2	240	LFT	12" RCP Storm Sewer		
12.3	361	LFT	15" PVC Storm Sewer		
12.4	675	LFT	15" RCP Storm Sewer		
13.1	1,054	LFT	12" Ductile Iron Water Main		
13.2	195	LFT	12" Ductile Iron Water Main by Bore and Jack		
14.1	1	EA	12" Tapping Valve & Sleeve		
15.1	2	EA	12" Gate Valve & Box		
16.1	3	EA	Fire Hydrant Assembly		
17.1	500	LFT	Line, Paint, Solid, White 4"		
17.2	1,110	LFT	Line, Thermoplastic, Solid, White, 4"		
17.3	150	LFT	Line, Thermoplastic, Solid, White 24" Stop Bar		
17.4	3,950	LFT	Line, Thermoplastic, Solid, Yellow, 4"		
17.5	1,125	LFT	Line, Thermoplastic, Solid, Yellow, 8"		
17.6	450	LFT	Line, Thermoplastic, Solid, Yellow, 12"		
17.7	10	EA	Pavement Message Marking, Thermoplastic, Turn Arrowhead		

ELKHART COUNTY BOARD OF COMMISSIONERS
COUNTY ROAD 4 IMPROVEMENTS

ITEM NO	Quantity	Unit	Description	Unit Price	Total Price
17.8	6	EA	Pavement Message Marking, Thermoplastic, Straight & Turn Arrowheads		
18.1	1	LSUM	Traffic Signal Improvements		
19.1	2,630	LFT	Communication Conduit, 2-inch		
20.1	2	EA	ATMS Handhole		
20.2	2	EA	ATMS Vault		
21.1	1	LSUM	CR 17 Landscape Improvements		
22.1	10	EA	Sign, Sheet, Relocate		
23.1	1	LSUM	Landscape Restoration		
24.1	1	LSUM	Mobilization & Demobilization (5% Max)		
25.1	1	LSUM	Reset Section Corner Monument		
				Total	



BORING LOG 1: ELKHART EAST - CR4 IMPROVEMENTS

325 S. Lafayette Blvd.
 South Bend, IN 46601
 (574) 232-4388
 jpr1source.com

Project Name: : ELKHART EAST - CR4
 PROJECT NO.: : 2018-0012
 Location: : CR4
 Client: : ELKHART COUNTY HWY
 Engineer's Initials: : MEW

Date Drilled: : 5-4-2019
 Drilling Contractor: : D&T DRILLING
 Depth Drilled (ft): : 20.0'
 Ground Elevation (ft): : N/A

DEPTH (ft)	SYMBOL	USCS	Water Levels Legend:		NUMBER	SPT BLOWS	RECOVERY	WATER LEVEL	COMMENTS
			▼ During Drilling	▽ After Completion					
			DESCRIPTION						
0			7" TOPSOIL						
			TAN, VERY LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 0.6' TO 3' BELOW GRADE		1	2,2,3-5	16"		
			TAN, LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 3' TO 6.5' BELOW GRADE		2	3,3,4-7	15"		
5			TAN & GRAY, VERY LOOSE, WET, FINE, SLIGHTLY CLAYEY SAND & GRAVEL, 6.5' TO 9' BELOW GRADE		3	2,2,1-3	15"	▽	
			TAN & GRAY, LOOSE, WET, FINE, SLIGHTLY CLAYEY SAND & GRAVEL, TO COARSE SAND & GRAVEL, 9.5' TO 12' BELOW GRADE		4	2,4,5-9	12"	▼	
10			TAN & GRAY, MEDIUM DENSE, WET SAND & GRAVEL, 12' TO 16' BELOW GRADE		5	3,4,8-12	18"		
15			TAN & GRAY, LOOSE, WET SAND & GRAVEL w/ ROCKS, 16' TO 20' DEPTH LIMIT OF BORING		6	4,4,5-9	18"		
20									

Drilling Rig: Diedrich Drill Rig
 Drilling Method: Hollow Stem Auger
 Sampler Type: Split Spoon
 Hammer Weight: 140 lb
 Hammer Drop: 30"

WATER LEVEL OBSERVATIONS:
 During Drilling: 7 ft
 After Completion: 6 ft
 Cave-In Depth: 7 ft
 Misc Notes: N/A



BORING LOG 2: ELKHART EAST - CR4 IMPROVEMENTS

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Project Name: : ELKHART EAST - CR4
 PROJECT NO.: : 2018-0012
 Location: : CR4
 Client: : ELKHART COUNTY HWY
 Engineer's Initials: : MEW

Date Drilled: : 5-4-2019
 Drilling Contractor: : D&T DRILLING
 Depth Drilled (ft): : 20.0'
 Ground Elevation (ft): : N/A

DEPTH (ft)	SYMBOL	USCS	Water Levels Legend:		NUMBER	SPT BLOWS	RECOVERY	WATER LEVEL	COMMENTS
			▼ During Drilling	▽ After Completion					
			DESCRIPTION						
0			4" TOPSOIL						
			TAN, VERY LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 0.3' TO 3' BELOW GRADE		1	2,2,3-5	16"		
			TAN, LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 3' TO 6.5' BELOW GRADE		2	3,3,7-10	16"		
5			TAN, LOOSE, WET, FINE, CLAYEY SAND & GRAVEL, 6.5' TO 8' BELOW GRADE		3	4,3,3-6	18"	▽	
			TAN & GRAY, LOOSE, WET, COARSE, SLIGHTLY CLAYEY SAND & GRAVEL, TO COARSE SAND & GRAVEL, 8' TO 12' BELOW GRADE		4	1,4,4-8	12"	▼	
10			TAN & GRAY, MEDIUM DENSE, WET SAND & GRAVEL w/ ROCK, 12' TO 16' BELOW GRADE		5	4,6,8-14	16"		
15			TAN & GRAY, MEDIUM DENSE, WET SAND & GRAVEL w/ ROCKS, 16' TO 20' DEPTH LIMIT OF BORING		6	6,6,8-14	18"		
20									

Drilling Rig: Diedrich Drill Rig
 Drilling Method: Hollow Stem Auger
 Sampler Type: Split Spoon
 Hammer Weight: 140 lb
 Hammer Drop: 30"

WATER LEVEL OBSERVATIONS:
 During Drilling: 7 ft
 After Completion: 6 ft
 Cave-In Depth: 9 ft
 Misc Notes: N/A



BORING LOG 3: ELKHART EAST - CR4 IMPROVEMENTS

325 S. Lafayette Blvd.
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 jpr1source.com

Project Name: : ELKHART EAST - CR4
 PROJECT NO.: : 2018-0012
 Location: : CR4
 Client: : ELKHART COUNTY HWY
 Engineer's Initials: : MEW

Date Drilled: : 5-4-2019
 Drilling Contractor: : D&T DRILLING
 Depth Drilled (ft): : 20.0'
 Ground Elevation (ft): : N/A

DEPTH (ft)	SYMBOL	USCS	Water Levels Legend:		NUMBER	SPT BLOWS	RECOVERY	WATER LEVEL	COMMENTS
			▼ During Drilling	▽ After Completion					
			DESCRIPTION						
0			10" TOPSOIL						
			TAN, VERY LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 0.8' TO 3' BELOW GRADE		1	2,2,3-5	16"		
			TAN, LOOSE, MOIST, FINE TO MEDIUM SAND & GRAVEL, 3' TO 6' BELOW GRADE		2	2,4,5-9	18"		
5			TAN, LOOSE, WET, MEDIUM TO COARSE, CLAYEY SAND & GRAVEL, 6' TO 8' BELOW GRADE		3	2,2,3-5	16"	▼	
			TAN & GRAY, VERY LOOSE, WET, MEDIUM TO COARSE SAND & GRAVEL, 8' TO 12' BELOW GRADE		4	1,0,0-0	16"		
10			TAN & GRAY, MEDIUM DENSE, WET, MEDIUM TO COARSE SAND & LOTS OF GRAVEL, 12' TO 16' BELOW GRADE		5	5,5,7-12	6"		
15			TAN & GRAY, LOOSE, WET, MEDIUM TO COARSE SAND & GRAVEL, 16' TO 20' DEPTH LIMIT OF BORING		6	3,5,5-10	16"		
20									

Drilling Rig: Diedrich Drill Rig
 Drilling Method: Hollow Stem Auger
 Sampler Type: Split Spoon
 Hammer Weight: 140 lb
 Hammer Drop: 30"

WATER LEVEL OBSERVATIONS:
 During Drilling: 6 ft
 After Completion: 6 ft
 Cave-In Depth: 6 ft
 Misc Notes: N/A



BORING LOG 4: ELKHART EAST - CR4 IMPROVEMENTS

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Project Name: : ELKHART EAST - CR4
 PROJECT NO.: : 2018-0012
 Location: : CR4
 Client: : ELKHART COUNTY HWY
 Engineer's Initials: : MEW

Date Drilled: : 5-4-2019
 Drilling Contractor: : D&T DRILLING
 Depth Drilled (ft): : 20.0'
 Ground Elevation (ft): : N/A

DEPTH (ft)	SYMBOL	USCS	Water Levels Legend:		NUMBER	SPT BLOWS	RECOVERY	WATER LEVEL	COMMENTS
			▼ During Drilling	▽ After Completion					
			DESCRIPTION						
0			11" TOPSOIL						
			TAN, LOOSE, MOIST, FINE SAND, 0.9' TO 3' BELOW GRADE		1	2,2,3-5	16"		
			TAN, LOOSE, MOIST, FINE SAND, 3' TO 6' BELOW GRADE		2	2,4,5-9	18"		
5			TAN, VERY LOOSE, WET, MEDIUM, SLIGHTLY CLAYEY SAND & GRAVEL, 6' TO 9' BELOW GRADE		3	2,2,3-5	16"	▼	
			TAN, LOOSE, WET, MEDIUM TO COARSE, SAND & GRAVEL 9' TO 13' BELOW GRADE		4	1,0,0-0	16"		
10			TAN, MEDIUM DENSE, WET, COARSE SAND & GRAVEL, 13' TO 16' BELOW GRADE		5	5,5,7-12	6"		
15			TAN, MEDIUM DENSE, WET, COARSE SAND & GRAVEL, 16' TO 20' DEPTH LIMIT OF BORING		6	3,5,5-10	16"		
20									

Drilling Rig: Diedrich Drill Rig
 Drilling Method: Hollow Stem Auger
 Sampler Type: Split Spoon
 Hammer Weight: 140 lb
 Hammer Drop: 30"

WATER LEVEL OBSERVATIONS:
 During Drilling: 6 ft
 After Completion: 6 ft
 Cave-In Depth: 9 ft
 Misc Notes: N/A