

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: December 20, 2016
Date of Addendum: December 5, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
109	86-C086-093	PCC OVERLAY - UNBONDED	TAMA	STP-S-C086(93)--5E-86	20DEC109A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0090 2310-5151251 PORTLAND CEMENT CONCRETE
OVERLAY, PLACEMENT ONLY (UNBONDED):

From: 89,518.088 SY

To: 74,098.900 SY

If the above changes are not made, they will be made as shown here.

Replace plan sheets 3 and 5 with the attached:

On Page 3 in Tabulation 100-1A (Estimated Project Quantities):

The quantity of Item 0090 2310-5151251 PCC OVERLAY PLACE ONLY (UNBONDED) was
changed from 89,518.088 SY to 74,098.900 SY.

On Page 5 in Tabulation 100-24B (PCC PAVEMENT UNBONDED OVERLAY):

The Total Intersection PCC (the second line from the bottom) Area was changed from 17,346.9
SY to 1,927.7 SY. The Total PCC Pavement (the bottom line) Area was changed from 89,518.1
SY to 74,098.9.

100-1A Modified					
ESTIMATED PROJECT QUANTITIES					
REF	CODE NO.	DESCRIPTION	UNIT	TOTAL PARTICIPATING	TOTAL NON-PARTICIPATING
0010	2102-0425070	SPECIAL BACKFILL	TONS	4,225.000	
0020	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	868.900	
0030	2121-7425020	GRANULAR SHOULDERS, TYPE B	TONS	12,188.000	
0040	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	20.580	
0050	2213-6745500	REMOVAL OF CURB	STA	19.210	
0060	2214-5145150	PAVEMENT SCARIFICATION	SY	74,060.000	
0070	2301-0690220	BRIDGE APPROACH, SECONDARY ROADS	SY	159.990	
0080	2310-5151040	PCC OVERLAY, FURNISH ONLY	CY	18,069.900	
0090	2310-5151251	PCC OVERLAY PLACE ONLY (UNBONDED)	SY	74,098.900	
0100	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TONS	1,770.000	
0110	2435-0250800	INTAKE, SW-508	EACH	1.000	
0120	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	4.000	
0130	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	43,498.000	
0140	2502-8221304	SUBDRAIN OUTLET, DR-304	EACH	96.000	
0150	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	425.000	
0160	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	2.000	
0170	2505-4008420	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-221	EACH	4.000	
0180	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	6.000	
0190	2505-4021710	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, LS-625	EACH	2.000	
0200	2505-4021722	STEEL BEAM GUARDRAIL FLARED END TERMINAL, BA-225	EACH	4.000	
0210	2510-6745850	REMOVAL OF PAVEMENT	SY	8,406.200	
0220	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	1.000	
0230	2511-6745900	REMOVAL OF SIDEWALK	SY	45.700	
0240	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	127.800	
0250	2511-7528101	DETECTABLE WARNING	SF	17.600	
0260	2512-1725306	CURB AND GUTTER, P.C. CONCRETE, 3.0 FT.	LF	2,528.000	
0270	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	67.100	
0280	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	67.100	
0290	2518-6910000	SAFETY CLOSURE	EACH	20.000	
0300	2526-8285000	CONSTRUCTION SURVEY	LS	1.000	
0310	2527-9263109	PAINTED PAVEMENT MARKINGS, WATERBORNE/SOLVENT BASED	STA	891.970	
0320	2528-8445110	TRAFFIC CONTROL	LS	1.000	
0330	2533-4980005	MOBILIZATION	LS	1.000	
0340	2555-0000010	DELIVER & STOCKPILE SALVAGED MATERIAL	LS		1.000

111-25 10-18-11		
INDEX OF TABULATIONS		
Tabulation	Tabulation Title	Sheet No.
100-1A	ESTIMATED PROJECT QUANTITIES	3
100-4A	ESTIMATE REFERENCE INFORMATION	3
100-24B TAMA	PCC PAVEMENT (UNBONDED OVERLAY)	5
102-1 TAMA	GRANULAR SURFACING (ENTRANCES)	5
102-18 TAMA	PCC INTERSECTION FILLETS	5
102-19 TAMA	6" SLOPED CURB & GUTTER, PCC	5
102-20 TAMA	NON-STANDARD CURB LOCATIONS	5
102-25 TAMA	PCC PAVED DRIVEWAYS	6
103-8 TAMA	SPECIAL BACKFILL FOR ROAD BASE	5
104-5C	LONGITUDINAL SUBDRAIN (SHOULDER AND BACKSLOPE)	6
104-5B TAMA	STORM SEWER	7
104-10	MANHOLE ADJUSTMENTS	8
105-4	STANDARD ROAD PLANS	1
108-8A TAMA	STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST	7
108-13A	SAFETY CLOSURES	6
108-22	PAVEMENT MARKING LINE TYPES	7
110-1	REMOVAL OF PAVEMENT	6
110-1B TAMA	PAVEMENT SCARIFICATION & CLEANING AND PREPARATION OF BASE	7
110-4	REMOVAL OF EXISTING CURB & GUTTER	6
110-5	SIDEWALK REMOVAL	8
110-7A	REMOVAL OF STEEL BEAM GUARDRAIL	7
110-17 TAMA	CLASS 13 EXCAVATION	8
112-6	BRIDGE APPROACH SECTION	8
112-9	SHOULDERS	8
113-1	SIDEWALKS	8

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
0010	2102-0425070	SPECIAL BACKFILL For placement under transitions, full depth pavement section, curb and gutter sections, and base widening through Garwin. See tabulation 103-8 TAMA.
0020	2102-2713090	EXCAVATION, CLASS 13, WASTE See Tabulation 110-17 TAMA. Excavation is necessary to provide adequate thickness of pavement and special backfill for paved shoulders, intersections, and driveways.
0030	2121-7425020	GRANULAR SHOULDERS, TYPE B Figured at a rate of 140 lb/cf. See Tabulation 112-9.
0040	2123-7450000	SHOULDER CONSTRUCTION, EARTH For use in backfilling behind new PCC curb and gutter sections. See Tabulation SHOULDERS and Typical Sections. Shoulders shall obtain a minimum slope of (+ or -) 2%. Shall also include minor shaping around intake in curb near old service station in order to achieve proper drainage.
0050	2213-6745500	REMOVAL OF CURB See Tabulation 110-4.
0060	2214-5145150	PAVEMENT SCARIFICATION Salvaged Material to remain property of Tama County. See Item 0340 for delivery location. Also see Tabulation 110-1B TAMA.
0070	2301-0690220	BRIDGE APPROACH, SECONDARY ROADS See Tabulation 112-6.
0080	2310-5151040	PCC OVERLAY, FURNISH ONLY Refer to the typical sections on page 3. This bid item covers all overlay work, including the transition sections. PCC Concrete shall be Class C and use Class 3 durability stone unless otherwise noted. No cement substitution will be allowed October 1 to April 30. Final quantity has been increased for overruns. See tabulations PCC PAVEMENT (UNBONDED OVERLAY), PCC INTERSECTION FILLETS, OVERLAY TO FULL DEPTH SECTION TRANSITION, OVERLAY TO UNMODIFIED SECTION TRANSITION, OVERLAY TRANSITION TO UNMODIFIED SECTION W/ COMPLETE REMOVAL, and FULL DEPTH TRANSITION W/ COMPLETE REMOVAL.
0090	2310-5151251	PCC OVERLAY PLACE ONLY (UNBONDED) Refer to the typical sections on page 3. Refer also to Standard Road Plan PV-101 for jointing and dowel placement. No dowel baskets are required. All transverse joints should be 'C' joints spaced at 12' unless otherwise noted. Pavement smoothness according to Section 2316 of the Standard Specifications shall not apply. Longitudinal grooving will be required according to Section 2301.03,H,3,a of the Standard Specifications. Transverse grooving may be substituted in place of longitudinal grooving with permission of the Engineer. See tabulations PCC PAVEMENT (UNBONDED OVERLAY), PCC INTERSECTION FILLETS, OVERLAY TO FULL DEPTH SECTION TRANSITION, OVERLAY TO UNMODIFIED SECTION TRANSITION, OVERLAY TRANSITION TO UNMODIFIED SECTION W/ COMPLETE REMOVAL, and FULL DEPTH TRANSITION W/ COMPLETE REMOVAL.
0100	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE Place Class A crushed stone at ends of intersection fillets and in unpaved entrances along mainline to bring entrances to an elevation that allows reasonable access. See tabulations GRANULAR SURFACING (ENTRANCES) and PCC INTERSECTION FILLETS.
0110	2435-0250800	INTAKE, SW-508 This intake shall replace the existing intake near the old service station in Montour. Wall height is 9 feet. New intake shall have surface intake openings on the north, west, and south sides. Use type 'G' casting. See tabulation 104-5B TAMA.
0120	2435-0600010	MANHOLE ADJUSTMENT, MINOR Manholes in City of Montour to be adjusted. See tabulation MANHOLE ADJUSTMENTS and sheet 6.
0130	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA. Placement of subdrains and outlets shall be verified and approved by the Engineer prior to placement. Refer to Road Standard DR-303. Use installation type 7A. See tabulation LONGITUDINAL SUBDRAIN (SHOULDER AND BACKSLOPE).
0140	2502-8221304	SUBDRAIN OUTLET, DR-304 Placement of subdrains and outlets shall be verified and approved by the Engineer prior to placement. The contractor may substitute earth fill for Class 'A' crushed stone over the porous backfill on outlets. See tabulation LONGITUDINAL SUBDRAIN (SHOULDER AND BACKSLOPE).
0150	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL See tabulation REMOVAL OF STEEL BEAM GUARDRAIL.
0160	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201 For the Raven Creek (east) bridge. See tabulation STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST.
0170	2505-4008420	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-221 For the west bridge. See tabulation STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST.
0180	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED For both bridges. Some of the existing guardrail has been retrofitted. Any retrofits that must be made to connect the new guardrail to the existing end posts shall be considered incidental to this item. See tabulation STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST.
0190	2505-4021710	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, LS-625 For the Raven Creek (east) bridge. See tabulation STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST.
0200	2505-4021722	STEEL BEAM GUARDRAIL FLARED END TERMINAL, BA-225 For the west bridge. See tabulation STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST.
0210	2510-6745850	REMOVAL OF PAVEMENT Includes removal of pavement at transition sections, bridge approaches, intersections, and mainline through City of Montour. Saw cuts necessary for pavement removal shall be considered incidental to this item. See tabulation REMOVAL OF PAVEMENT.
0230	2511-6745900	REMOVAL OF SIDEWALK Saw cuts necessary for removal of sidewalk shall be considered incidental to this item. See plan view on sheet 9 and tabulation 110-5.
0240	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN. See Tabulation , and plan sheet 9.
0250	2511-7528101	DETECTABLE WARNING See Tabulation 113-1, and plan sheet 9.
0260	2512-1725306	CURB AND GUTTER, P.C. CONCRETE, 3.0 FT. See Tabulation 102-19 TAMA, Tabulation 102-20 TAMA, and plan sheet 9.
0270	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN. See Tabulation 102-25 TAMA, and plan sheet 9.
0280	2515-6745600	REMOVAL OF PAVED DRIVEWAY See Tabulation 110-8, and plan sheet 9.
0290	2518-6910000	SAFETY CLOSURE See Tabulation 108-13A.
0300	2526-8285000	CONSTRUCTION SURVEY Shall also include preservation of property pins, cornerstones, and re-establishment of major cornerstones (mile and half-mile).
0310	2527-9263109	PAINTED PAVEMENT MARKINGS, WATERBORNE/SOLVENT BASED See Tabulation 108-22.
0340	2555-0000010	DELIVER & STOCKPILE SALVAGED MATERIAL Scarified material to be hauled to Tama County Shop located at 2038 280th Street.

PCC PAVEMENT (UNBONDED OVERLAY)												
Refer to Sections 2301 & 2310 of the Standard Specifications. Smoothness does not apply.												
Location		STA Egn. +/-	Length	Width in Decimal	Width	Depth	Area	*Raw Volume	Possible Overrun on CY	Plan Volume	Remarks	
Station to Station	Side	FT	FT	FT	FT	IN	SY	CY	%	CY		
1410+00.0	1505+32.5	LT	-	9,532.5	12,000	12'-0"	8.0	12,710.1	2,824.5	10%	3,107.0	BOP to start of reinforced bridge approach for first bridge.
1410+00.0	1505+32.5	RT	-	9,532.5	12,000	12'-0"	8.0	12,710.1	2,824.5	10%	3,107.0	BOP to start of reinforced bridge approach for first bridge.
1506+51.5	1549+00.0	LT	-83.2	4,165.3	12,000	12'-0"	8.0	5,553.8	1,234.2	10%	1,357.6	End of reinforced bridge approach for first bridge to start of curb
1506+51.5	1549+00.0	RT	-83.2	4,165.3	12,000	12'-0"	8.0	5,553.8	1,234.2	10%	1,357.6	End of reinforced bridge approach for first bridge to start of curb
1549+00.0	1561+30.0	LT	-	1,230.0	9,000	9'-0"	8.0	1,230.0	273.3	10%	300.6	Start to end of curb & gutter section.
1549+00.0	1561+30.0	RT	-	1,230.0	9,000	9'-0"	8.0	1,230.0	273.3	10%	300.6	Start to end of curb & gutter section.
1561+30.0	1562+40.0	LT	-	110.0	12,000	12'-0"	8.0	146.7	32.6	10%	35.9	Start to end of paved shoulder on right.
1561+30.0	1562+40.0	RT	-	110.0	15,000	15'-0"	8.0	183.3	40.7	10%	44.8	Start to end of paved shoulder on right.
1562+40.0	1686+50.9	LT	-90.9	12,320.0	12,000	12'-0"	8.0	16,426.7	3,650.4	10%	4,015.4	End of paved shoulders to start of reinforced bridge approach at EOP.
1562+40.0	1686+50.9	RT	-90.9	12,320.0	12,000	12'-0"	8.0	16,426.7	3,650.4	10%	4,015.4	End of paved shoulders to start of reinforced bridge approach at EOP.
Total Mainline PCC (Whitetopping)							72,171.2	16,038.1			17,641.9	
Total Intersection PCC							1927.7	428.0			428.0	See tabulation 102-18 TAMA.
Total PCC Pavement							74,098.9	16,466.1			18,069.9	

6" SLOPED CURB & GUTTER, PCC					
Refer to Standard Road Plan PV-102					
Station to Station	Side	Width	Length	Remarks	
		FT	FT		
1549+00.0	1549+58.5	LT	3.0	74	Beginning of curb and gutter section to Main Street. Length includes 1 radius at Main Street.
1549+00.0	1549+58.5	RT	3.0	72	Beginning of curb and gutter section to Main Street. Length includes 1 radius at Main Street.
1549+88.5	1553+46.5	LT	3.0	388	Main Street to Division Street. Length includes 1 radius at each Main Street and Division Street.
1549+88.5	1553+46.5	RT	3.0	438	Main Street to Division Street. Length includes 1 radius at each Main Street and Division Street.
1553+70.5	1557+34.2	LT	3.0	392	Division Street to Franklin Street. Length includes 1 radius at each Division Street and Franklin Street.
1553+70.5	1557+34.2	RT	3.0	392	Division Street to Franklin Street. Length includes 1 radius at each Division Street and Franklin Street.
1557+58.2	1561+30.0	LT	3.0	390	Franklin Street to 307 E. Lincoln Hwy. Length includes 1 radius at Franklin Street.
1557+58.2	1561+30.0	RT	3.0	382	Franklin Street to 307 E. Lincoln Hwy. Length includes 1 radius at Franklin Street.
Total			2,528		

PCC INTERSECTION FILLETS																					
Calculations based on a Special Backfill unit weight (lb/cf) of 140. ** Class 13 Excavation figured at a depth of 16 inches.																					
Location			Type of Intersecting Road / Drive	*W ₁	*W ₂	*W ₃	*L ₁	*L ₂	*L ₃	*R	PCC Depth	PCC Area	PCC Area	PCC Volume	Rock (Class A, Driveway)	Area of Rock Removal	Special Backfill Depth	Special Backfill	**Class 13 Excavation	Remarks	
Station	Side	Street / Drive		FT	FT	FT	FT	FT	FT	FT	IN	SF	SY	CY	TONS	SF	IN	TONS	CY		
1410+00.0	LT	Abbott Ave.	Rock	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	75.0	79.0	See Detail 002.	
1410+00.0	RT	Abbott Ave.	Rock	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	75.0	79.0	See Detail 002.	
1462+86.1	LT	B Ave.	Rock	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	75.0	79.0	See Detail 002.	
1462+86.1	RT	B Ave.	Rock	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	75.0	79.0	See Detail 002.	
1514+46.8	RT	C Ave.	Rock	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	75.0	79.0	See Detail 002.	
1549+73.5	LT	T47(North) / Main St.	HMA	25.0	0.0	3.0	80.0	24.0	3.0	25.0	8.0	1,008.5	112.1	24.9	---	1485.0	8.0	69.0	37.0	See Detail 001.	
1549+73.5	RT	Main St.	Rock	15.0	0.0	3.0	54.0	18.0	3.0	15.0	8.0	463.1	51.5	11.4	30.0	770.5	8.0	36.0	38.0	See Detail 001.	
1553+58.5	LT	Division St.	HMA	15.0	4.0	3.0	54.0	18.0	3.0	15.0	8.0	535.1	59.5	13.2	---	858.5	8.0	40.0	21.0	See Detail 001.	
1553+58.5	RT	Division St.	Rock	15.0	4.0	3.0	54.0	18.0	3.0	15.0	8.0	535.1	59.5	13.2	30.0	858.5	8.0	40.0	42.0	See Detail 001.	
1557+46.2	LT	Franklin St.	HMA	15.0	4.0	3.0	54.0	18.0	3.0	15.0	8.0	535.1	59.5	13.2	---	858.5	8.0	40.0	21.0	See Detail 001.	
1557+46.2	RT	Franklin St.	Rock	15.0	4.0	3.0	54.0	18.0	3.0	15.0	8.0	535.1	59.5	13.2	30.0	858.5	8.0	40.0	42.0	See Detail 001.	
1567+68.5	LT	T47(South)	HMA	---	---	---	---	---	---	---	8.0	5,705.4	633.9	140.9	---	6512.5	8.0	304.0	161.0	See Detail 003.	
1630+15.0	RT	E Ave.	Dirt	30.0	0.0	2.0	86.0	26.0	0.0	30.0	8.0	1,338.3	148.7	33.0	30.0	1596.5	8.0	62.0	79.0	See Detail 002.	
Total												17346.9	1927.7	428.0	270.0			1006.0	836.0		

GRANULAR SURFACING (ENTRANCES)				
Station	Side	Approx. Width	Driveway Surfacing Material	Remarks
			TON	
1414+00	LT	500.00	90.0	Coop Driveway
1414+00	RT	20.00	30.0	Field
1436+20	RT	20.00	30.0	Field
1436+50	LT	20.00	30.0	Field
1445+50	RT	20.00	30.0	Field
1450+60	RT	30.00	30.0	Field
1662+30	LT	20.00	30.0	Field
1463+30	RT	20.00	30.0	Field
1475+20	RT	20.00	30.0	1127 Hwy E49
1502+40	LT	20.00	30.0	Field
1517+10	LT	20.00	30.0	Field
1530+70	RT	20.00	30.0	1236 Hwy E49
1537+60	LT	20.00	30.0	Field
1539+10	LT	20.00	30.0	Home
1539+60	RT	20.00	30.0	Field
1545+90	RT	20.00	30.0	Field
1547+00	RT	20.00	30.0	Shed
1551+60	LT	20.00	30.0	Alley
1552+50	LT	20.00	30.0	Home
1554+70	LT	20.00	30.0	Home
1558+70	RT	20.00	30.0	Home
1559+30	LT	20.00	30.0	Home
1559+30	RT	20.00	30.0	Home
1561+60	RT	20.00	30.0	Home
1563+80	RT	20.00	30.0	Home
1565+80	RT	20.00	30.0	Home
1567+68	RT	20.00	30.0	Field
1576+20	RT	20.00	30.0	Field
1581+90	LT	30.00	30.0	Field
1581+90	RT	20.00	30.0	Field
1593+30	RT	20.00	30.0	1340 Hwy E49
1598+00	LT	20.00	30.0	Field
1601+40	LT	30.00	30.0	Field
1604+10	LT	20.00	30.0	1359 Hwy E49
1609+30	RT	20.00	30.0	Field
1621+70	RT	20.00	30.0	1380 Hwy E49
1622+30	LT	20.00	30.0	Field
1625+40	LT	20.00	30.0	1395 Hwy E49
1631+90	LT	20.00	30.0	1403, 1415, 1435 Hwy E49
1639+70	LT	20.00	30.0	1421 Hwy E49
1649+10	LT	30.00	30.0	Field
1658+20	LT	20.00	30.0	Field
1658+20	RT	20.00	30.0	Field
1666+10	RT	20.00	30.0	1458 Hwy E49
1666+60	RT	20.00	30.0	Field
1678+30	RT	20.00	30.0	Field
1678+30	RT	20.00	30.0	Field
1685+70	RT	20.00	30.0	Field
Total			1500.0	

NON-STANDARD CURB LOCATIONS					
Refer to Standard Road Plan PV-102					
Station to Station	Side	Drop Curb Height	Length	Remarks	
		1/2" 1 1/2" 3"	FT		
1549+20.0	1549+40.0	LT	X	20	Church driveway & Sidewalk
1549+35.5	1549+40.5	RT	X	5	Sidewalk entering onto E49
1549+57.0		LT	X	5	Sidewalk entering onto Main St. (T47)
1549+85.5	1550+10.0	RT	X	40	Parking for old service station
1549+90.0		LT	X	5	Sidewalk entering onto Main St. (T47)
1551+55.0	1551+75.0	LT	X	20	Alley between Main St. & Division St.
1552+45.0	1552+65.0	LT	X	20	Driveway for 207 S Division St.
1553+27.5	1553+32.5	LT	X	5	Sidewalk entering onto E49
1553+27.5	1553+32.5	RT	X	5	Sidewalk entering onto E49
1553+46.5		LT	X	5	Sidewalk entering onto Division St.
1553+46.5		RT	X	5	Sidewalk entering onto Division St.
1553+70.5		LT	X	5	Sidewalk entering onto Division St.
1553+70.5		RT	X	5	Sidewalk entering onto Division St.
1554+62.0	1554+82.0	LT	X	20	Driveway
1554+92.0	1555+07.0	LT	X	15	Driveway
1557+34.2		LT	X	5	Sidewalk entering onto Franklin St.
1557+34.2		RT	X	5	Sidewalk entering onto Franklin St.
1557+58.2		LT	X	5	Sidewalk entering onto Franklin St.
1557+58.2		RT	X	5	Sidewalk entering onto Franklin St.
1557+72.0	1557+77.0	LT	X	5	Sidewalk entering onto E49
1557+72.0	1557+77.0	RT	X	5	Sidewalk entering onto E49
1558+15.0	1560+40.0	LT	X	225	Driveway for 302 E Lincoln Hwy (E49) & Alley. To accommodate parking behind curb.
1558+62.0	1558+82.0	RT	X	20	Driveway for 303 E Lincoln Hwy (E49)
1559+30.0	1559+45.0	RT	X	15	Driveway for 305 E Lincoln Hwy (E49)
Total				470	

SPECIAL BACKFILL FOR ROAD BASE							
Calculations based on a Special Backfill unit weight (lb/cf) of 140.							
Station to Station	Side	Width	Length	Depth	Quantity	Remarks	
		FT	FT	IN	TON		
1410+00.0	1413+00.0	LT	12.0	300.0	8.0	168.0	Transition area at BOP. To be placed under mainline.
1410+00.0	1413+00.0	RT	12.0	300.0	8.0	168.0	Transition area at BOP. To be placed under mainline.
1501+72.5	1504+72.5	LT	12.0	300.0	8.0	168.0	Transition area at start of non-reinforced approach for first bridge.
1501+72.5	1504+72.5	RT	12.0	300.0	8.0	168.0	Transition area at start of non-reinforced approach for first bridge.
1507+11.5	1510+11.5	LT	12.0	300.0	8.0	168.0	Transition area at end of non-reinforced approach for first bridge.
1507+11.5	1510+11.5	RT	12.0	300.0	8.0	168.0	Transition area at end of non-reinforced approach for first bridge.
1547+50.0	1549+00.0	LT	12.0	150.0	8.0	84.0	Transition area at west side of Montour. To be placed under mainline.
1547+50.0	1549+00.0	RT	12.0	150.0	8.0	84.0	Transition area at west side of Montour. To be placed under mainline.
1549+00.0	1561+30.0	LT	12.0	1,230.0	8.0	689.0	To be placed under mainline and curb & gutter section in Montour. See typical section.
1549+00.0	1561+30.0	RT	12.0	1,230.0	8.0	689.0	To be placed under mainline and curb & gutter section in Montour. See typical section.
1561+30.0	1562+40.0	LT	12.0	110.0	8.0	62.0	Paved shoulder on right. To be placed under mainline. See typical section.
1561+30.0	1562+40.0	RT	15.0	110.0	8.0	77.0	Paved shoulder on right. To be placed under mainline & paved shoulder. See typical section.
1562+40.0	1563+90.0	LT	12.0	150.0	8.0	84.0	Transition area at east side of Montour. To be placed under mainline.
1562+40.0	1563+90.0	RT	12.0	150.0	8.0	84.0	Transition area at east side of Montour. To be placed under mainline.
1682+90.9	1685+90.9	LT	12.0	300.0	8.0	168.0	Transition area to start of non-reinforced bridge approach at EOP.
1682+90.9	1685+90.9	RT	12.0	300.0	8.0	168.0	Transition area to start of non-reinforced bridge approach at EOP.
Total Mainline Special Backfill					3,197.0		
Total Intersection Special Backfill					1006.0		
Total PCC Drive Special Backfill					22.0		
Total Special Backfill					4,225.0		