

**August 17, 2016
ADDENDUM NO. 3:**

**Contract Documents, Project Specifications and Bid Plans For 49th Street,
Brantner Road and Industrial Parkway Project dated July 26, 2016**

To All Plan-holders:

This addendum shall become part of the Contract Documents as if originally included. The bidder shall acknowledge receipt of the addendum on the Bid Form.

AD3

See attached revised bid form, specifications and plan set pages changing the specification for hot mix asphalt from 403-34751 (PG 64-28) to 403-34741 (PG 64-22). This is the only change made by this addendum.

Gary Wilson
Project Manager
City of Evans, CO

1.5.2 BID PROPOSAL - Addendum 3 August 17, 2016

49th Street, Brantner Road and Industrial Parkway Project

Proposal of _____ (hereinafter called bidder), doing business as * _____ organized and existing under the laws of the State of _____, to the City of Evans (hereinafter called CITY).

In compliance with your Advertisement for Bids, bidder hereby proposes to perform all work for the **49th Street, Brantner Road and Industrial Parkway Project** in strict accordance with contract documents, within the time set forth therein, and at prices stated below.

By submission of this bid, each bidder certifies, and in cases of a joint bid, each party hereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

Bidder hereby agrees to commence work under this contract on or before a date specified in the Special Conditions. Bidder further agrees to pay liquidated damages as provided in the Special Conditions.

Bidder acknowledges receipt of the following Addendum:

Bid shall include all applicable taxes and fees.

Bidder agrees to perform all work described in the contract documents in accordance with the attached Bid Schedule.

*** Insert "a Corporation", "a Partnership", or "an Individual" as applicable.**

BID SCHEDULE

PROJECT NAME:	BRANTNER RD, INDUSTRIAL PKWY, & 49TH ST ENGINEERING SERVICES	CLIENT:		CITY OF EVANS	
PROJECT #	PW 00302	DATE:		22-Apr-16	
DESCRIPTION:	49TH St., Industrial Pkwy, Brantner Rd. - 2013 POST FLOOD REPAIRS	PHASE:		Bid Schedule	
ITEM NUMBER	ITEM DESCRIPTION	UNIT	PLAN QUANTITY	UNIT COST	TOTAL COST
201-00001	Clearing and Grubbing	LS	1		
202-00240	Removal of Asphalt Mat (Planing)	SY	648		
202-00810	Removal of Ground Sign	EACH	8		
203-00010	Unclassified Excavation (Complete In Place)	CY	716		
203-01500	Blading	HOUR	20		
203-01594	Combination Loader	HOUR	20		
203-01597	Potholing	HOUR	10		
203-02330	Laborer	HOUR	15		
207-00205	Topsoil	CY	753		
208-00002	Erosion Log (12inch)	LF	3110		
208-00035	Aggregate Bag	LF	100		
208-00045	Concrete Washout Structure	EACH	1		
208-00070	Vehicle Tracking Pad	EACH	3		
208-00103	Removal and Disposal of Sediment (Labor)	HOUR	20		
208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	20		
208-00106	Sweeping (Sediment Removal)	HOUR	40		
208-00206	Erosion Control Supervisor	DAY	30		

BID SCHEDULE

PROJECT NAME:	BRANTNER RD, INDUSTRIAL PKWY, & 49TH ST ENGINEERING SERVICES	CLIENT:		CITY OF EVANS	
PROJECT #	PW 00302	DATE:		22-Apr-16	
DESCRIPTION:	49TH St., Industrial Pkwy, Brantner Rd. - 2013 POST FLOOD REPAIRS	PHASE:		Bid Schedule	
210-00010	Reset Mailbox Structure	EACH	3		
210-00810	Reset Ground Sign	EACH	1		
212-00006	Seeding (Native)	ACRE	1.4		
212-00032	Soil Conditioning	ACRE	1.4		
213-00002	Mulching (Weed Free Hay)	ACRE	0.7		
213-00061	Mulch Tackifier	LB	140		
216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY	3750		
216-00303	Turf Reinforcement Mat (Class III)	SY	3750		
304-06000	Aggregate Base Course (Class 6)	TON	247		
310-00610	Full Depth Reclamation of Hot Mix Asphalt Pavement (8-12 Inch)	SY	4480		
403-34741	Hot Mix Asphalt (Grading SX) (75) (PG 64-22)	TON	119		
412-00600	Concrete Pavement (6 Inch)	SY	4706		
607-11525	Fence (Plastic)	LF	3742		
612-00001	Delineator (Type I)	EACH	43		
614-00011	Sign Panel (Class I)	SF	66.75		
614-00012	Sign Panel (Class II)	SF	8		
614-00066	Timber Sign Post 6x6 Inch	LF	14		
614-00200	Steel Sign Post (U-2)	LF	132		

BID SCHEDULE

PROJECT NAME:	BRANTNER RD, INDUSTRIAL PKWY, & 49TH ST ENGINEERING SERVICES	CLIENT:	CITY OF EVANS		
PROJECT #	PW 00302	DATE:	22-Apr-16		
DESCRIPTION:	49TH St., Industrial Pkwy, Brantner Rd. - 2013 POST FLOOD REPAIRS	PHASE:	Bid Schedule		
625-00000	Construction Surveying	LS	1		
626-00000	Mobilization	LS	1		
627-00005	Epoxy Pavement Marking	GALLON	23		
627-30210	Thermoplastic Pavement Marking (Xwalk-Stopline)	SF	50		
630-00000	Flagging	HOUR	100		
630-00007	Traffic Control Inspection	DAY	10		
630-00012	Traffic Control Management	DAY	30		
630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	12		
630-80355	Portable Message Sign Panel	EACH	2		
630-80341	Construction Traffic Sign (Panel Size A)	EACH	27		
630-80342	Construction Traffic Sign (Panel Size B)	EACH	6		
630-80360	Drum Channelizing Device	EACH	20		
630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	20		
630-80380	Traffic Cone (36 Inch)	EACH	50		
				TOTAL	

- All materials shall be inspected upon arrival and any damage prior to delivery will be the responsibility of the manufacturer/seller.

Base Bid – Grand Total: \$ _____

The undersigned, if awarded the Contract, at the prices shown in the bid, agrees that the Work will

be substantially complete on or before November 15, 2016 and completed and ready for final payment on or before November 30, 2016.

Date _____

Company

Official Address:

Signature

Title

**CITY OF EVANS
49TH/BRANTNER/INDUSTRIAL
SPECIAL PROVISIONS**

The following document includes the applicable Project Special Provisions and Standard Special Provisions. The Project Special Provisions supplement or modify the 2011 CDOT Standard Specifications for Road and Bridge Construction, and take precedence over the Standard Specifications and plans.

<u>Project Special Provisions</u>	<u>Date Written</u>	<u>Page</u>
Revision of Section 216 – Turf Reinforcement Mat	December 2, 2015	1
Revision of Section 310 – Full Depth Reclamation of HMA Pavement	December 2, 2015	4
Revision of Section 403 – Hot Mix Asphalt	April 28, 2016	6
Traffic Control Plan – General	December 2, 2015	9
Utilities	May 2, 2016	10

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<u>Standard Special Provisions</u>	<u>Date Issued</u>	<u>Page</u>
Revision of Sections 101 and 630 – Construction Zone Traffic Control	April 30, 2015	11
Revision of Section 106 – Buy America Requirements	November 6, 2014	13
Revision of Section 106 – Certificates of Compliance and Certified Test Reports	February 3, 2011	14
Revision of Section 106 – Material Sources	October 31, 2013	15
Revision of Section 106 – Supplier List	January 30, 2014	16
Revision of Sections 106 and 412 – Surface Texture of Portland Cement Concrete Pavement	October 29, 2015	17
Revision of Sections 106, 627, and 713 – Glass Beads for Pavement Marking	May 12, 2016	20
Revision of Section 107 – Responsibility for Damage Claims, Insurance Types, and Coverage Limits	February 3, 2011	22
Revision of Section 107 – Warning Lights for Work Vehicles and Equipment	January 30, 2014	23
Revision of Section 107 – Water Quality Control (Contractor Obtained Stormwater Permit)	March 29, 2016	24
Revision of Section 108 – Delay and Extension of Contract Time	April 30, 2015	30
Revision of Section 108 – Holiday Weekend	February 18, 2016	32
Revision of Section 108 – Liquidated Damages	October 29, 2015	33
Revision of Section 108 – Notice to Proceed	July 31, 2014	34
Revision of Section 108 – Project Schedule	July 31, 2014	35
Revision of Section 108 – Subletting of Contract	January 31, 2013	41
Revision of Section 109 – Compensation for Compensable Delays	May 5, 2011	42
Revision of Section 109 – Measurement of Quantities	February 3, 2011	43
Revision of Section 109 – Measurement of Water	January 6, 2012	44
Revision of Section 109 – Scales	October 29, 2015	45
Revision of Sections 202, 627, and 708 – Pavement Marking Paint	May 12, 2016	46
Revision of Sections 203, 206, 304, and 613 – Compaction	July 19, 2012	49
Revision of Sections 206 and 601 – Maturity Meters and Concrete Form and Falsework Removal	December 18, 2015	51
Revision of Section 208 – Erosion Control	March 29, 2016	54
Revision of Section 212 – Seed	April 26, 2012	77
Revision of Section 213 – Mulching	January 31, 2013	78
Revision of Section 401 – Compaction of Hot Mix Asphalt	April 26, 2012	82
Revision of Section 401 – Temperature Segregation	February 3, 2011	83
Revision of Section 412 – Portland Cement Concrete Pavement Finishing	February 3, 2011	84
Revision of Sections 412, 601, and 711 – Liquid Membrane-Forming Compounds for Curing Concrete	May 5, 2011	85
Revision of Section 601 – Class B, BZ, D DT, and P Concrete	February 18, 2016	86
Revision of Section 601 – Concrete Batching	February 3, 2011	88
Revision of Section 601 – Concrete Finishing	February 3, 2011	89
Revision of Section 601 – Concrete Slump Acceptance	October 29, 2015	90
Revision of Section 601 – Structural Concrete Strength Acceptance	April 30, 2015	91
Revision of Sections 601 and 701 – Cements and Pozzolans	November 6, 2014	92

<u>Standard Special Provisions cntd.</u>		
Revision of Section 612 – Delineators	February 3, 2011	96
Revision of Section 630 – Retroreflective Sign Sheeting	May 8, 2014	97
Revision of Section 702 – Bituminous Materials	March 29, 2016	98
Revision of Section 703 – Aggregate for Bases	October 31, 2013	109
Revision of Section 703 – Aggregate for Hot Mix Asphalt	November 1, 2012	110
Revision of Section 703 – Concrete Aggregates	July 28, 2011	112
Revision of Section 709 – Epoxy Coated Reinforcing Bars	February 18, 2016	113
Revision of Section 712 – Water for Mixing or Curing Concrete	February 3, 2011	114
Revision of Section 713 – Epoxy Pavement Marking	January 15, 2015	115
Revision of Section 713 – Reflectors for Delineators and Median Barrier	May 2, 2013	117
Revision of Section 713 – Sign Panel Backgrounds	November 6, 2014	118
Affirmative Action Requirements – Equal Employment Opportunity	February 3, 2011	119

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 REVISION OF SECTION 403
 HOT MIX ASPHALT

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Section 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 403.02 shall include the following:

The design mix for hot mix asphalt shall conform to the following:

Table 403-1							
Property	Test Method	Value For Grading					
		SX(100)					
Air Voids, percent at: N (design)	CPL 5115	3.5 – 4.5					
Lab Compaction (Revolutions): N (design)	CPL 5115	75					
Stability, minimum	CPL 5106	28					
Aggregate Retained on the 4.75 mm (No. 4) Sieve for S, SX and SG, and on the 2.36mm (No. 8) Sieve for ST and SF with at least 2 Mechanically Induced fractured faces, % minimum*	CP 45	60%					
Accelerated Moisture Susceptibility Tensile Strength Ratio (Lottman), minimum	CPL 5109 Method B	80					
Minimum Dry Split Tensile Strength, kPa (psi)	CPL 5109 Method B	205 (30)					
Grade of Asphalt Cement, Top Layer		PG 64-22					
Grade of Asphalt Cement, Layers below Top		PG 64-22					
Voids in the Mineral Aggregate (VMA) % minimum	CP 48	See Table 403-2					
Voids Filled with Asphalt (VFA), %	AI MS-2	65-80					
Dust to Asphalt Ratio Fine Gradation Coarse Gradation	CP 50	0.6 – 1.2 0.8 – 1.6					
Note: AI MS-2 = Asphalt Institute Manual Series 2 Note: Mixes with gradations having less than 40% passing the 4.75 mm (No. 4) sieve shall be approached with caution because of constructability problems. Note: Gradations for mixes with a nominal maximum aggregate size of one-inch or larger are considered a coarse gradation if they pass below the maximum density line at the #4 screen. Gradations for mixes with a nominal maximum aggregate size of 3/4" to 3/8" are considered a coarse gradation if they pass below the maximum density line at the #8 screen. Gradations for mixes with a nominal maximum aggregate size of #4 or smaller are considered a coarse gradation if they pass below the maximum density line at the #16 screen. *Fractured face requirements for SF may be waived by RME depending on project conditions.							

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 REVISION OF SECTION 403
 HOT MIX ASPHALT

All mix designs shall be run with a gyratory compaction angle of 1.25 degrees and properties must satisfy Table 403-1.

Table 403-2

Nominal Maximum Size*, mm (inches)	Minimum Voids in the Mineral Aggregate (VMA)			
	***Design Air Voids **			
	3.5%	4.0%	4.5%	5.0%
37.5 (1½)	11.6	11.7	11.8	N/A
25.0 (1)	12.6	12.7	12.8	
19.0 (¾)	13.6	13.7	13.8	
12.5 (½)	14.6	14.7	14.8	
9.5 (⅜)	15.6	15.7	15.8	
4.75 (No. 4)	16.6	16.7	16.8	16.9
	* The Nominal Maximum Size is defined as one sieve larger than the first sieve to retain more than 10%. ** Interpolate specified VMA values for design air voids between those listed. *** Extrapolate specified VMA values for production air voids beyond those listed.			

The Contractor shall prepare a quality control plan outlining the steps taken to minimize segregation of HMA. This plan shall be submitted to the Engineer and approved prior to beginning the paving operations. When the Engineer determines that segregation is unacceptable, the paving shall stop and the cause of segregation shall be corrected before paving operations will be allowed to resume.

Delete subsection 403.05 and replace with the following:

403.05 The accepted quantities of hot mix asphalt will be paid for in accordance with subsection 401.22, at the contract unit price per ton for the bituminous mixture.

Payment will be made under:

Pay Item	Pay Unit
Hot Mix Asphalt (Grading SX)(75)(PG 64-22)	Ton

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Aggregate, asphalt recycling agent, asphalt cement, additives, hydrated lime, and all other work and materials necessary to complete each hot mix asphalt item will not be paid for separately, but shall be included in the unit price bid. No additional compensation will be considered or paid for any additional asphalt cement, plant modifications and additional personnel required to produce the HMA as a result in a change to the mix design asphalt cement content.

Excavation, preparation, and tack coat of areas to be patched will not be measured and paid for separately, but shall be included in the work.

PoDI / NHS	
FHWA PROJECT OF DIVISION INTEREST (PoDI)?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
NATIONAL HIGHWAY SYSTEM?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES

Related Projects:

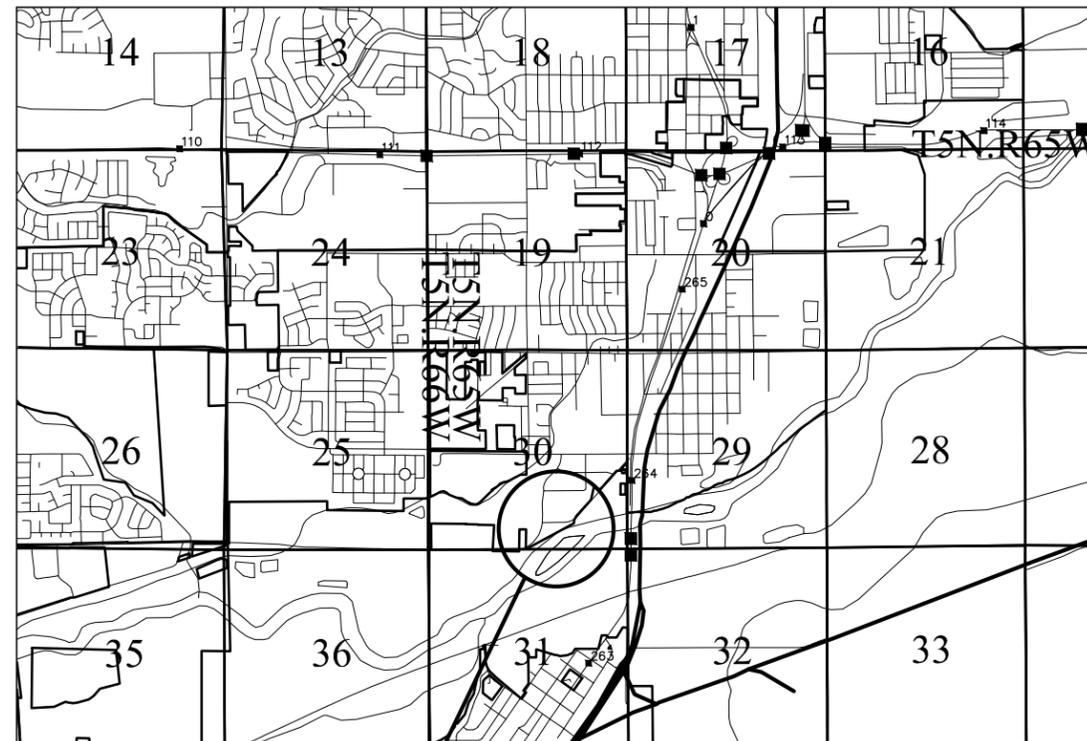
R.O.W. Projects:

CITY OF EVANS STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED COLORADO PROJECT NO. PW 00302 EVANS 09 - 49TH, INDUSTRIAL AND BRANTNER ROAD WELD COUNTY

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	MAJOR STRUCTURE
	LIN. FT.	LIN. FT.
<u>49TH ST. & INDUSTRIAL PKWY</u> STA. 14+25.00 BEGIN ROADWAY CONSTRUCTION	1,325	
STA. 27+50.00 END ROADWAY CONSTRUCTION		
<u>BRANTNER RD.</u> STA. 51+14.00 BEGIN ROADWAY CONSTRUCTION	386	
STA. 55+00.00 END ROADWAY CONSTRUCTION		
TOTAL	1,711	
<u>SUMMARY</u>	<u>LIN. FT.</u>	<u>MILES</u>
ROADWAY	1,711	0.32
MAJOR STRUCTURE	0	0
ROADWAY NET LENGTH	1,711	0.32
PROJECT GROSS LENGTH	1,711	0.32
<u>DESIGN DATA</u>		
MAXIMUM DEGREE OF CURVE	91° 12' 31"	
MAXIMUM GRADE	> 2.36%	
MINIMUM S.S.D. - HORIZONTAL		
MINIMUM S.S.D. - VERTICAL		
MAXIMUM DESIGN SPEED	40 MPH	
2030 DESIGN TRAFFIC VOLUME	{ AADT = DHV = TRUCKS =	
2003 INDUSTRIAL	AADT = 11,400	
2003 49TH	AADT = 2,400	
2003 BRANTNER	AADT = 8,500	



INDEX OF SHEETS		
Sheet Number	Sheet Number	Sheet Title
(R-1) 1	GN-001	Title Sheet
2	GN-002	General Notes
(R-1) 3	GN-003	Summary of Approximate Quantities
(R-1) 4	GN-004	Tabulations
(R-1) 5	GN-005	Typical Sections & Pavement Sections
6	GN-006	Geometrics & Survey
7	DM-101	Demolition Plan
8	PP-201	Plan & Profile
9	PP-202	Plan & Profile
10	PP-203	Plan & Profile
11	PP-204	Plan & Profile
12	GR-301	Grading Plan
13	GR-302	Grading Plan
14	GR-303	Grading Plan
15	SW-401	Storm Water Management Plans
16	SW-402	Storm Water Management Plans
17	SW-403	Storm Water Management Plans
18	SW-404	Storm Water Management Plans
19	SW-405	Storm Water Management Plans
20	SW-406	Storm Water Management Plans
21	TC-501	Detour Plan
22	DT-601	Details
23	JT-701	Concrete Jointing Plan
24	JT-702	Concrete Jointing Plan
25	JT-703	Concrete Jointing Plan
26	SN-801	Signing & Striping
27	SN-802	Signing & Striping
28	XS-901	CROSS SECTIONS
29	XS-902	CROSS SECTIONS
30	XS-903	CROSS SECTIONS
31	XS-904	CROSS SECTIONS
32	XS-905	CROSS SECTIONS
33	XS-906	CROSS SECTIONS
34	XS-907	CROSS SECTIONS
35	XS-908	CROSS SECTIONS
36	XS-909	CROSS SECTIONS
37	XS-910	CROSS SECTIONS
38	XS-911	CROSS SECTIONS
39	XS-912	CROSS SECTIONS
40	XS-913	CROSS SECTIONS
41	MS-1000	STANDARD PLANS LIST

PROJECT: EVANS 09 - 49TH ST. / INDUSTRIAL PKWY / BRANTNER RD.
 49TH / INDUSTRIAL ROADWAY CONSTRUCTION STA. 14+25 TO STA. 27+50
 BRANTNER ROADWAY CONSTRUCTION STA. 51+14 TO STA. 55+00



Know what's below.
Call before you dig.

**ADVERTISEMENT SET
JULY 2016**



Print Date: 8/17/2016	Sheet Revisions			As Constructed	Contract Information		Project No./Code
File Name: GN-001 - Title Sheet.dwg	Date:	Comments	Init.	No Revisions:	Contractor:	PW 00302 /	
Horiz. Scale: N/A Vert. Scale: N/A	08/17/2016	CHANGE HMA TYPE		Revised:	Program Manager: ML	Drawing Number GN-001	
RockSol Consulting Group, Inc. 6510 W. 91st Avenue, Westminster, CO 80031 Ph: (303) 962-9300 Fax: (303) 962-9350				Void:	Project Engineer: DT	Sheet Number 1	
					PROJECT STARTED: ___/___/___ ACCEPTED: ___/___/___	Comments:	

Plot Date: 8/17/2016 11:48 AM Plotted By: Dennis Gonzalez
 C:\Users\dgonzalez\Documents\PROJECTS\2016\ADVERTISING FILES\2016\CITY OF EVANS BRANTNER RD\800 COMPUTER DESIGN FILES\802 CAD SHEET FILES\GN001 - TITLE SHEET.DWG

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	Units	ROADWAY			PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST		PLAN	AS CONST
			201-00001	Clearing and Grubbing	LS	1			1	
			202-00240	Removal of Asphalt Mat (Planing)	SY	648			648	
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			208-00070	Vehicle Tracking Pad	EACH	3			3	
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			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	20			20	
			208-00106	Sweeping (Sediment Removal)	HOUR	40			40	
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			614-00200	Steel Sign Post (U-2)	LF	132			132	
			625-00000	Construction Surveying	LS	1			1	
			626-00000	Mobilization	LS	1			1	
			627-00005	Epoxy Pavement Marking	GALLON	23			23	
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			630-80342	Construction Traffic Sign (Panel Size B)	EACH	6			6	
			630-80360	Drum Channelizing Device	EACH	20			20	
			630-80363	Drum Channelizing Device (With Light)(Flashing)	EACH	20			20	
			630-80380	Traffic Cone (36 Inch)	EACH	50			50	

R-1



Plot Date: 7/13/2016 11:49 AM Plotted By: Dennis Gonzales
 File Name: GN-003 - SAQ.DWG
 Horiz. Scale: N/A Vert. Scale: N/A
 RockSol Consulting Group, Inc.
 6510 W. 91st Ave., Westminster, CO 80031
 Ph: (303) 962-9300 Fax: (303) 962-9350

Print Date: 7/13/2016	
File Name: GN-003 - SAQ.DWG	
Horiz. Scale: N/A	Vert. Scale: N/A
RockSol Consulting Group, Inc. 6510 W. 91st Ave., Westminster, CO 80031 Ph: (303) 962-9300 Fax: (303) 962-9350	

Sheet Revisions		
Date:	Comments	Init.
08/17/2016	CHANGE HMA TYPE	



As Constructed	49TH/BRANTNER/INDUSTRIAL		Project No./Code
No Revisions:	SUMMARY OF APPROXIMATE QUANTITIES		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-003
Void:	Detailer: D.GONZALES	Sheet Subset: GENERAL	Subset Sheets: 3 of 6
			Sheet Number 3 of 41

REMOVALS, ADJUSTMENTS, RELOCATES, AND RESET ITEMS				
STATION/LOCATION	REMOVAL OF ASPHALT PLANING (SY)	REMOVAL OF GROUND SIGN (EACH)	RESET MAILBOX STRUCTURE (EACH)	RESET GROUND SIGN (EACH)
49TH ST.				
STA. 14+25 TO STA. 15+00	217			
STA. 15+00 TO STA. 24+54.44		7		
STA. 15+00 TO STA. 24+54.44			3	
INDUSTRIAL ST.				
STA. 25+34.08, 18.56' RT				1
STA. 26+50.00 TO STA. 27+50.00	297			
BRANTNER RD.				
STA. 54+50.00 TO STA. 55+00.00	134			
STA. 52+10.34 TO STA. 54+50.00				
STA. 51+58.10 LT.		1		
TOTALS	648	8	3	1

SURFACE ITEMS					
STATION / LOCATION	AREA (SF)	3" GRADING SX (75) (PG 64-22)	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (8-12 INCH)	CONCRETE PAVEMENT (6 INCH)	AGGREGATE BASE COURSE (CLASS 6)
		TON	SY	SY	TON
49TH AND INDUSTRIAL					
STA. 14+25.00 TO 15+00.00 & 26+50.00 TO 27+50.00	4626	86			
STA. 15+00.00 TO 26+50.00	32057		3327	3562	
STA. 14+25.00 RT. TO 15+75.00 RT.	1898				63
STA. 18+50.00 LT. TO 19+00.00 LT.	892				30
STA. 20+00.00 RT. TO 24+45.00, 130' RT. (INCLUDES SHOULDER ON BRANTNER RD.)	2919				97
STA. 23+40.00 LT. TO 23+60.00 LT.	634				21
STA. 24+41.47 LT. TO 24+77.61 LT.	330				11
STA. 27+00.00 LT. TO 27+50.00 LT.	758				25
BRANTNER					
STA. 51+14.00 TO 54+50.00	10294		1153	1144	
STA. 54+50.00 TO 55+00.00	1203	22			
SUBTOTALS		108			
10% IRREGULARITIES (FOR ASPHALT ONLY)		11			
TOTAL	55611	119	4480	4706	247

FULL DEPTH OF RECLAMATION OF HOT MIX ASPHALT PAVEMENT BASED ON 10 INCH DEPTH.

SUMMARY OF EARTHWORK QUANTITIES		CUBIC YARDS
EXCAVATION MATERIAL		
	<u>49th St. & Industrial Pkwy.</u>	
	STA. 14+25 TO STA. 27+50 (FULL DEPTH RECLAMATION)	106
	STA. 16+30 TO BRANTNER STA. 53+00 (TURF REINFORCEMENT MAT)	273
	STA. 25+10 TO STA. BRANTNER 52+00 (TURF REINFORCEMENT MAT)	18
	STA. 14+25 TO STA. 27+50 (LEFT ROADWAY SLOPE)	97
	STA. 25+10 TO STA. 27+50 (RIGHT ROADWAY SLOPE)	101
	<u>Brantner Rd.</u>	
	STA. 51+15 TO STA. 55+00 (FULL DEPTH RECLAMATION)	74
	STA. 53+00 TO STA. 55+00 (RIGHT ROADWAY SLOPE)	26
	STA. 52+00 TO STA. 55+00 (LEFT ROADWAY SLOPE)	21
	TOTAL	716
EMBANKMENT MATERIAL (NET)		
	<u>49th St. & Industrial Pkwy.</u>	
	STA. 14+25 TO STA. 27+50	0
	<u>Brantner Rd.</u>	
	STA. 51+15 TO STA. 55+00	0
	TOTAL	0
COMPACTION (AASHTO T 99)		
	TOTAL EMBANKMENT (NET) BASES OF CUTS AND FILLS	0
	TOTAL	0
BORROW		
	FROM PIT	0
	TOTAL	0
FOR INFORMATION ONLY UNCLASSIFIED EXCAVATION		
	Total Unclassified Excavation	716
	Total Borrow	0
	UNCLASSIFIED TOTAL	716



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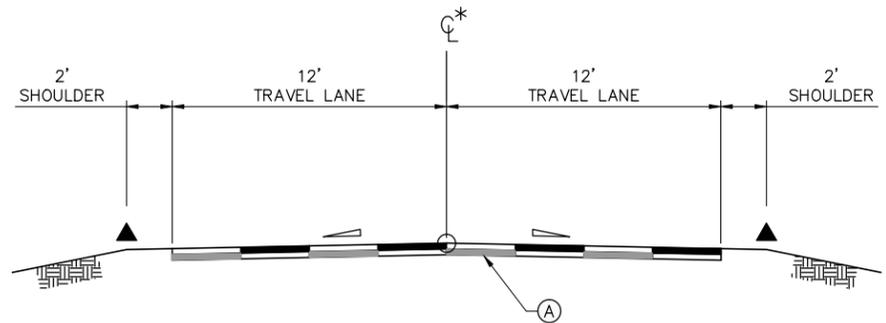
RockSol Consulting Group, Inc.
 6510 W. 91st Ave., Westminster, CO 80031
 Ph: (303) 962-9300 Fax: (303) 962-9350

Sheet Revisions		
Date:	Comments	Init.
08/17/2016	CHANGE HMA TYPE	



As Constructed	49TH/BRANTNER/INDUSTRIAL TABULATIONS		Project No./Code
No Revisions:			PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-004
Void:	Detailer: D.GONZALES	Sheet Subset: GENERAL	Subset Sheets: 4 of 6
			Sheet Number 4 of 41

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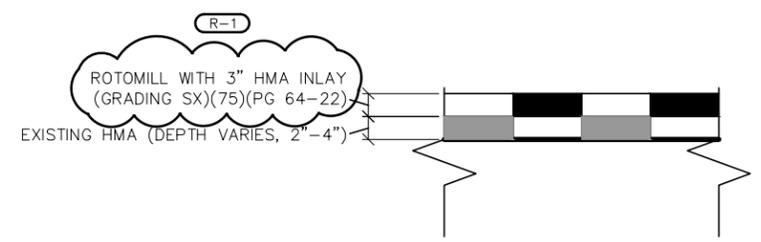
TYPICAL SECTIONS:

49TH ST:
 * STA: 14+25.00 TO STA: 15+00.00
 INDUSTRIAL PKWY:
 STA: 26+50.00 TO STA: 27+50.00
 BRANTNER RD:
 STA: 54+50.00 TO STA: 55+00.00

* ROADWAY NOT CENTERED ON CONTROL LINE FROM STA. 14+25 TO STA. 15+00. SEE DRAWING PP-201 FOR ROADWAY GEOMETRICS.

TYPICAL SECTION NOTES:

- THE CONTRACTOR WILL BE REQUIRED TO PLACE 4 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
- BREAK POINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION.
- ROADWAY SLOPE VARIES. SEE GRADING PLAN AND CROSS SECTIONS FOR DETAILS.
- VERTICAL ALIGNMENT CONTROL POINTS.

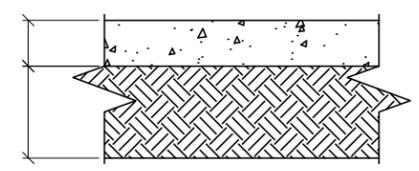


A ROTOMILL ASPHALT TRANSITION
 SCALE: N.T.S

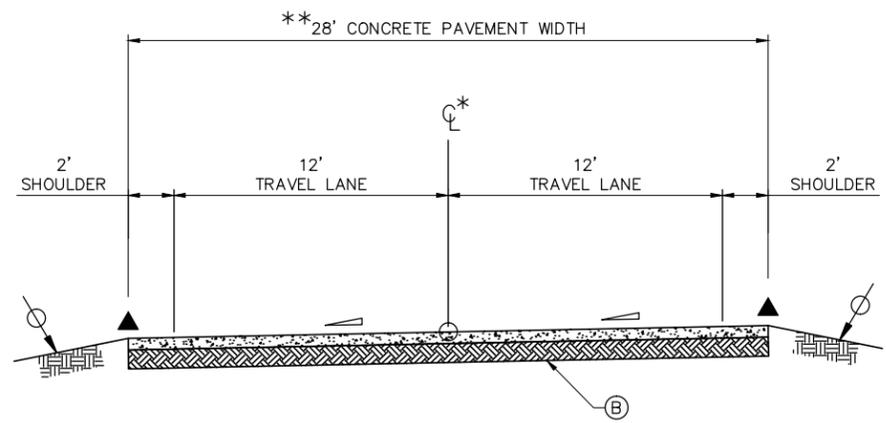
NOTES:

1. REFER TO PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PAVEMENT TRANSITIONS.
2. REFER TO GEOTECHNICAL REPORT ENTITLED:
 "Geotechnical Pavement Design Report
 Brantner Road, Industrial Parkway and 49th Street Project
 City of Evans Project No. PW-00302 Evans09"
 PREPARED BY ROCKSOL CONSULTING GROUP.
 DATED: NOVEMBER 5, 2015
3. REFER TO DRAWINGS GR-301 TO GR-303 FOR GRADING PLANS.

CONCRETE PAVEMENT (6 INCH)
 10" FULL DEPTH RECLAMATION



B FULL DEPTH - CONCRETE PAVEMENT SECTION
 SCALE: N.T.S



TYPICAL SECTIONS:

49TH ST AND INDUSTRIAL:
 * STA: 15+00.00 TO STA: 26+50.00
 BRANTNER RD:
 * * STA: 51+14.00 TO STA: 51+66.00
 STA: 51+66.00 TO STA: 54+50.00

* ROADWAY NOT CENTERED ON CONTROL LINE FROM STA. 15+00 TO STA. 17+50. SEE DRAWING PP-201 FOR ROADWAY GEOMETRICS.
 * * FROM STA. 51+14 TO STA. 51+66.00
 ROADWAY SECTION VARIES AT INTERSECTION
 SEE DRAWING PP-203 & PP-204 FOR LAYOUT



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Sheet Revisions		
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As Constructed	49TH/BRANTNER/INDUSTRIAL		Project No./Code
No Revisions:	TYPICAL SECTIONS & PAVEMENT SECTIONS		PW 00302 /
Revised:	Designer: D.TUTTLE	Structure Numbers	Drawing Number GN-005
Void:	Detailer: D.GONZALES	Sheet Subset: GENERAL	Sheet Number 5 of 41
		Subset Sheets: 5 of 6	