

**CAMINO REAL REGIONAL MOBILITY AUTHORITY  
BOARD RESOLUTION**

**WHEREAS**, the Camino Real Regional Mobility Authority (CRRMA) entered into a Construction Agreement dated October 15, 2015 (Agreement) with Paso del Norte Trackworks for the construction of the infrastructure component of the El Paso Streetcar Project being developed by the CRRMA (Project);

**WHEREAS**, a change order, pursuant to the terms and conditions of the Agreement, is necessary to address various Project locations where unsuitable subgrade or unknown concrete was identified; and

**WHEREAS**, the parties therefore desire to execute a change order to memorialize the responsibilities of each party related to the additional work contemplated herein.

**NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:**

**THAT** the Executive Director is hereby authorized to execute Change Order No. 26 with Paso del Norte Trackworks, including any additional documents or materials as may be necessary, regarding the identification of unsuitable subgrade and buried concrete at various locations within the El Paso Streetcar Project limits.

**PASSED AND APPROVED THIS 13<sup>TH</sup> DAY OF DECEMBER, 2017.**

**CAMINO REAL REGIONAL  
MOBILITY AUTHORITY**

\_\_\_\_\_  
Susan A. Melendez, Chair

**ATTEST:**

\_\_\_\_\_  
Joe R. Fernandez, Board Secretary

**APPROVED AS TO CONTENT:**

\_\_\_\_\_  
Raymond L. Telles  
Executive Director



**RECOMMENDED FOR EXECUTION:**

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Name/Title	Date
APPROVAL	REQUEST APPROVAL

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Name/Title	Date
APPROVAL	REQUEST APPROVAL

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Name/Title	Date
APPROVAL	REQUEST APPROVAL

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Name/Title	Date
APPROVAL	REQUEST APPROVAL

Engineer's Seal:

**CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 0026.00**

Estimated Cost: SEE  
ATTACHED

Paid by \_\_\_\_\_ Paid by Invoice? ( Yes  No  )

**TABLE A: Force Account Work and Materials Placed into Stock**

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE
*SEE ATTACHED*			

**TABLE B: Contract Terms**

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
	*SEE ATTACHED*							



August 14, 2017

Camino Real Regional Mobility Authority  
300 N. Campbell, 2<sup>nd</sup> Floor  
El Paso, TX 79901



Attn: Gilbert Gardner PE, ASQ CMQ/OE  
Construction Manager

**RE: El Paso Streetcar Infrastructure Project**

Subject: Change Proposal 059 – Differing Site Conditions

Paso Del Norte Trackworks (PDNT) is submitting the following change proposal for differing site conditions encountered at various locations throughout the project.

(Item 10) During the roadway excavation and subgrade compaction operations unsuitable subgrade was encountered on Kansas between Paisano and Father Rahm. PDNT was directed to over excavate a 25ft x 15x area to a depth of 18in below subgrade and replace with geogrid and aggregate base course.

(Item 20) During the roadway excavation and subgrade compaction operations unsuitable subgrade was encountered at the Stanton between Crosby and 20ft North of Shuster. PDNT was directed to over excavate the first work area four feet below finish grade, install 1- 3in crushed stone to subgrade and install 6in of cement treated base course in place of the designed base course. Construction of Stanton between Crosby and 20ft north Shuster was split into 4 work areas to manage traffic. In the remaining work areas, PDNT was directed to over excavate 18in, install 1-3in crushed stone to subgrade elevation and install 6in cement treated base course in place of the designed base course.

(Item 30) throughout various locations of the project unknown concrete was encountered in the grade. The two primary locations of the concrete was at the MSF site and along Stanton north of I-10. During underground operations installing storm drain, water and sanitary sewer, concrete rubble was encountered in the native material. Along Stanton several slurry and concrete utility caps were discovered and required partial removal to allow sufficient clearance for the trackslab section. This item covers the costs for the miscellaneous concrete encountered throughout the project.

The additional installed material cost for the above mentioned scope is:

Item No	Description	Quantity	UM	Unit Price	Total
10	Unsuitable Subgrade Kansas (Father Rahm to Paisano)	1	LS	\$ 2,815.13	\$ 2,815.13
20	Unsuitable Subgrade Stanton (Crosby to Rim)	1	LS	\$ 189,082.92	\$ 189,082.92
30	Misc Concrete Removal	1	LS	\$ 42,696.14	\$ 42,696.14
					<b>\$ 234,594.19</b>



Paso Del Norte Trackworks is a joint venture between Granite Construction Company and RailWorks Track Systems, Inc.



Clarifications:

- The above scope of work may impact the baseline project schedule. By accepting this quote, the Camino Real Regional Mobility Authority acknowledges that there could be an impact and agrees that a contract time extension and/or additional overhead may need to be negotiated at a later date.
- Price includes Bonds, Builders Risk, and Franchise Tax.

If you have any questions regarding this submittal please feel free contact me at (520) 260-7779

Sincerely,

Anthony Alfonso  
Project Manager  
Paso Del Norte Trackworks



CHANGE PROPOSAL COST SUMMARY SHEET

Camino Real Regional Mobility Authority

El Paso Streetcar Infrastructure Project

CHANGE PROPOSAL NO. 59

DIFFERING SITE CONDITIONS KANSAS AND STANTON & MISC CONC REMOVAL THROUGHOUT

August 15, 2017

Item	Rate	Amount	Total Amount
<b>A. Direct Costs (1+2+3+4)</b>			\$ 183,059.52
1) Labor Cost		\$ 36,548.31	
2) Subcontractor Cost		\$ -	
3) Equipment		\$ 28,651.22	
4) Cost of Materials and Supplies		\$ 117,859.99	
<b>B. Indirect Cost (a+b)</b>			\$ 18,339.93
a) General Conditions		\$ 18,175.71	
b) Builder's Risk Insurance		164.22	
<b>C. Overhead and Profit (Self Performed) (A-SUB) x Rate</b>	15.00%		\$ 30,209.92
<b>D. Overhead and Profit (Subcontractor) (SUB) x Rate</b>	5.00%		\$ -
<b>E. Taxes (C+D) x Rate (Franchise Tax)</b>	0.950%		\$ 286.99
<b>Bonds (Reimbursable w/ 15% Markup) (A+B+C+D+E) x Rate</b>	1.150%		\$ 2,697.83
<b>COST OF WORK (A+B+C+D+Bonds)</b>			<b>\$ 234,594.19</b>

Prepared By:

Signature

Anthony Alfonso

Printed Name

Project Manager

Title

August 15, 2017





CHANGE PROPOSAL DIRECT COST SUMMARY SHEET  
 Camino Real Regional Mobility Authority  
 El Paso Streetcar Infrastructure Project  
 CHANGE PROPOSAL NO. 59  
 DIFFERING SITE CONDITIONS KANSAS AND STANTON & MISC CONC REMOVAL THROUGHOUT  
 August 15, 2017

Item #	Description	Quantity	Units	Unit Price	Labor	Material	Equipment	Subcontract	Amount
10	UNSUITABLE SUBGRADE KANASA	1	LS	\$ 2,175.58	\$ 790.67	\$ 788.58	\$ 596.33	\$ -	\$ 2,175.58
20	UNSUITABLE SUBGRADE STANTON	1	LS	\$ 147,461.28	\$ 19,286.60	\$ 110,471.41	\$ 17,703.27	\$ -	\$ 147,461.28
30	MISC CONCRETE RUBBLE	1	LS	\$ 33,422.66	\$ 16,471.04	\$ 6,600.00	\$ 10,351.62	\$ -	\$ 33,422.66
	<b>TOTALS</b>				<b>\$ 36,548.31</b>	<b>\$ 117,859.99</b>	<b>\$ 28,651.22</b>	<b>\$ -</b>	<b>\$ 183,059.52</b>

# Cost Report

Granite Construction, Inc. 12 Anthony Alfonso  
576965-059 Unsuitable Subgrade

Page 1 of 7  
07/10/2017 2:45 PM

**Notes:** Pumping Area on Kansas Between Piasano and Father Rahm  
25 x 15 - Over ex 18in / replace with geogrid  
Work completed 7/7/16 = crew matches time card

## Biditem UNSUITABLE SUBGRADE KANSAS

# 10

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	477.86	312.81	790.67	596.33	376.20	162.38	0.00	0.00	250.00	0.00	2,175.58
<b>Total</b>	<b>477.86</b>	<b>312.81</b>	<b>790.67</b>	<b>596.33</b>	<b>376.20</b>	<b>162.38</b>	<b>0.00</b>	<b>0.00</b>	<b>250.00</b>	<b>0.00</b>	<b>2,175.58</b>

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	20.5000	0.0488	20.5000	106.1259	23.3102	38.5693	0.2500

Activity: 284005 Cut/Export Loader Quantity: 21 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	22.76	14.90	37.65	28.40	0.00	0.00	0.00	0.00	0.00	0.00	66.05
<b>Total</b>	<b>477.86</b>	<b>312.81</b>	<b>790.67</b>	<b>596.33</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1,387.00</b>

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	66.0476	0.1905	5.2500	346.7500	0.5000	42.0000	0.0238	2,774.0000

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	20.5000	1.0244	0.9762	38.5693	22.7552

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading  
Crew: EX130 EX-Cut/Offhaul Loader Prod: UH 5.25 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 5.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80406WATER4	Water Truck, 2 - 4 mgal	0.50	2.00	HR	30.60	100.00	30.61	61.21
806PICKHROPE	Oper 4 Pickup, 3/4 100/Day	1.00	4.50	HR	10.81	100.00	10.81	48.65
80801JD710	Rubber Tire Backhoe	1.00	4.00	HR	46.89	100.00	46.89	187.57
80802CAT950	Loader, CAT 950 (3.75 - 4.0)	1.00	4.00	HR	46.78	100.00	46.78	187.12
812CAT140	Finish Motor Grader, CAT 140	0.50	2.00	HR	55.89	100.00	55.89	111.78
O0	4-MAN - OPERATOR	1.00	4.50	MH	27.67	105.56	46.82	210.67
O1GRDSET	OP-GRADESETTER	1.00	4.00	MH	21.20	100.00	36.41	145.64
O2FINBLADE	OP-FINISH BLADE	0.50	2.00	MH	23.90	100.00	39.97	79.94
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	4.00	MH	21.20	100.00	36.41	145.64
O6BCKHOE	OP-BACKHOE/LOADER	1.00	4.00	MH	21.20	100.00	36.41	145.64
TWATER	TEAM - WATER TRUCK DRIVER	0.50	2.00	MH	17.52	100.00	31.57	63.14

Activity: 284015 Haul Offsite (XX Miles) Quantity: 21 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	7.73	0.00	0.00	11.90	0.00	19.64
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>162.38</b>	<b>0.00</b>	<b>0.00</b>	<b>250.00</b>	<b>0.00</b>	<b>412.38</b>

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

**Notes:** 21cy = 3 LOAD @ 1.57hr/LD = 4.71 use 5 hr  
3 dump fees

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM06	Dump Fee - Soil, Wet	1.00	3.00	LD	50.00	108.25	54.13	162.38
5RTRASH	Trash Truck 2014	1.00	5.00	HR	50.00	100.00	50.00	250.00

Activity: 451005 Buy Aggregate Base ! Quantity: 38 Unit: TN

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: 21CY = 38tn AB

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2AG05.15	ABC PAG	1.00	38.00	TN	9.90	100.00	9.90	376.20

**Biditem**

**20**

**UNSUITABLE SUBGRADE STANTON**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	11,569.00	7,717.60	19,286.60	17,703.27	0.00	83,771.41	0.00	0.00	26,700.00	0.00	147,461.28
Total	11,569.00	7,717.60	19,286.60	17,703.27	0.00	83,771.41	0.00	0.00	26,700.00	0.00	147,461.28

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	513.5000	0.0019	513.5000	287.1690	22.5297	37.5591	0.0081

Activity: 252064 Dump Fees Quantity: 340 Unit: LD

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM05	Dump Fee - Soil, Dry	1.00	340.00	LD	50.00	100.00	50.00	17,000.00

Activity: 283905 Load Out Spoils (966) Quantity: 722 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	1.52	1.02	2.54	3.39	0.00	0.00	0.00	0.00	0.00	0.00	5.93
Total	1,095.58	738.07	1,833.65	2,448.05	0.00	0.00	0.00	0.00	0.00	0.00	4,281.70

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	5.9303	0.0332	30.0833	178.4042	3.0000	240.6667	0.0042	1,427.2333

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	49.5000	14.5859	0.0686	37.0434	1.5174

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: EX235 EX-Load Out Spoil Loader Prod: UH 30.0833 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 2.00 Equipment Pcs: 2.00

Notes: \*\*This item is only for the first cut to ex on 1/26/17 - Loaded out 722CY over two shifts. Remaining material hauled off under cut/export item.

1/27/17 8HR = 1 shift -- Load trucks only  
1/28/17 8HR = 1 shift -- Load trucks only

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80406WATER4	Water Truck, 2 - 4 mgal	0.50	12.00	HR	30.60	100.00	30.60	367.25
806OPER4PU	Operator FM w/pickup 100/day	0.25	7.50	HR	10.81	100.00	10.81	81.09
80802CAT966	Loader, CAT 966 (4.25 - 5.0)	1.00	24.00	HR	69.35	100.00	69.35	1,664.38
812RUF140	Rough Motor Grader, CAT 140	0.25	6.00	HR	55.89	100.00	55.89	335.33
OO	4-MAN - OPERATOR	0.25	7.50	MH	27.67	110.00	48.33	362.44
O2RUFBLADE	OP-ROUGH BLADE	0.25	6.00	MH	21.20	100.00	36.41	218.48
O3CAT966	OP-CAT 966 LOADER (4.25 - 5.	1.00	24.00	MH	21.20	100.00	36.41	873.89
TWATER	TEAM - WATER TRUCK DRIVER	0.50	12.00	MH	17.52	100.00	31.57	378.84

Activity: 284005 Cut/Export Loader Quantity: 1 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	5,645.48	3,741.42	9,386.90	8,214.54	0.00	0.00	0.00	0.00	0.00	0.00	17,601.44
Total	5,645.48	3,741.42	9,386.90	8,214.54	0.00	0.00	0.00	0.00	0.00	0.00	17,601.44

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	17,601.4400	44.0000	0.0227	400.0327	5.5000	0.1818	5.5000	3,200.2618

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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247.5000	0.0040	247.5000	37.9269	5,645.4800
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: EX130 EX-Cut/Offhaul Loader Prod: UH 0.0227 Eff: 100.00 Crew Hrs: 44.00 Labor Pcs: 5.50 Equipment Pcs: 4.50

Notes: Cut to Ex

1/26/17 - 0.75 shift  
 4/11/2017 - 1 Shift  
 4/12/2017 - 0.5 shift  
 5/2/2017 - 1 shift = approx 105CY Cut/ex = Place rock = Place CTB (NE Corner) \*\*use .5 for Cut to ex  
 5/8/2017 - 0.5 shift = 132CY  
 5/20/2017 - 1 shift ex 250CY  
 5/22/2017 - 0.75 shift 76CY  
 6/1/2017 - 0.5 shift - Removed unsuitable material north of Shuster near rim and replaced with millings

5.5Shift total

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80406WATER4	Water Truck, 2 - 4 mgal	0.50	22.00	HR	30.60	100.00	30.60	673.29
806PICKHROPE	Oper 4 Pickup, 3/4 100/Day	0.75	38.50	HR	10.81	100.00	10.81	416.26
80801JD710	Rubber Tire Backhoe	1.00	44.00	HR	46.89	100.00	46.89	2,063.29
80802CAT950	Loader, CAT 950 (3.75 - 4.0	1.00	44.00	HR	46.78	100.00	46.78	2,058.36
810PNEUR9	Pneum 9-Whl Roller, 9-25 tn	0.50	22.00	HR	52.68	100.00	52.68	1,159.00
812CAT140	Finish Motor Grader, CAT 140	0.75	33.00	HR	55.89	100.00	55.89	1,844.34
O0	4-MAN - OPERATOR	0.75	38.50	MH	27.67	107.14	47.35	1,823.09
O1GRDSET	OP-GRADESETTER	1.00	44.00	MH	21.20	100.00	36.41	1,602.13
O2FINBLADE	OP-FINISH BLADE	0.75	33.00	MH	23.90	100.00	39.96	1,318.83
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	44.00	MH	21.20	100.00	36.41	1,602.13
O4PNEUR9	OP-PNEUMATIC 9 WHEEL ROLLER	0.50	22.00	MH	19.23	100.00	33.82	744.04
O6BCKHOE	OP-BACKHOE/LOADER	1.00	44.00	MH	21.20	100.00	36.41	1,602.13
TWATER	TEAM - WATER TRUCK DRIVER	0.50	22.00	MH	17.52	100.00	31.57	694.55

Activity: 284015	Haul Offsite (XX Miles)	Quantity: 340	Unit: LD
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Haul Soil offsite

1/26 - 46 LD  
 1/27 - 53 LD  
 1/28 - 28 LD  
 4/11 - 9 LD  
 4/12 - 26 LD  
 4/26 - 17 LD  
 5/2 - 21 LD  
 5/8 - 23 LD  
 5/9 - 35 LD  
 5/20 - 37 LD  
 5/22 - 30 LD  
 6/1 - 15 LD

TOTAL - 340 LD

Figure 1.57hr/ld = 533.80 hr use 534hr

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5RTRASH	Trash Truck 2014	1.00	534.00	HR	50.00	100.00	50.00	26,700.00

Activity: 290025	Place & Compact rock	Quantity: 1	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	2,451.37	1,684.38	4,135.75	4,047.88	0.00	0.00	0.00	0.00	0.00	0.00	8,183.63
Total	2,451.37	1,684.38	4,135.75	4,047.88	0.00	0.00	0.00	0.00	0.00	0.00	8,183.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8,183.6300	34.0000	0.0294	240.6950	4.2500	0.2353	4.2500	1,925.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
114.7500	0.0087	114.7500	36.0414	2,451.3700

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: EM020 Emb-Plc/Comp 815 Prod: UH 0.0294 Eff: 100.00 Crew Hrs: 34.00 Labor Pcs: 3.25 Equipment Pcs: 2.25

Notes: 2/6/2017 -- Dump Place Rock 1 shift  
 2/7/2017 -- Dump Place Rock 1/2 shift  
 4/13/2017 -- Dump Place Rock 1 shift shuster intersection  
 4/26/2017 -- Dump Place Rock 1/2 shift 71.2tn rock  
 5/8/2017 -- full shift = approx 105CY Cut/ex = Place rock = Place CTB (NE Corner) \*\*use .25  
 5/24/2017 -- Dump Place Rock 1 shift 309.08tn  
 Total 4.25 shift

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80406WATER4	Water Truck, 2 - 4 mgal	0.25	8.50	HR	30.60	100.00	30.60	260.13
806OPER4PU	Operator FM w/pickup 100/day	0.50	21.25	HR	10.81	100.00	10.81	229.76
810CAT815	Compactor, CAT 815 10-24 ton	0.50	17.00	HR	97.52	100.00	97.52	1,657.76
812CAT140	Finish Motor Grader, CAT 140	1.00	34.00	HR	55.89	100.00	55.89	1,900.23
L1DUMP	LAB - DUMPMAN	1.00	34.00	MH	12.81	100.00	25.37	862.68
OO	4-MAN - OPERATOR	0.50	21.25	MH	27.67	110.00	48.33	1,026.91
O2FINBLADE	OP-FINISH BLADE	1.00	34.00	MH	23.90	100.00	39.97	1,358.81
O4SCOMPACTOR	OP-815/825/824 COMPACTOR	0.50	17.00	MH	21.20	100.00	36.41	619.00
TWATER	TEAM - WATER TRUCK DRIVER	0.25	8.50	MH	17.52	100.00	31.57	268.35

Activity: 451005 Buy Aggregate Base ! Quantity: 2399.14 Unit: TN

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	27.83	0.00	0.00	0.00	0.00	27.83
Total	0.00	0.00	0.00	0.00	0.00	66,771.41	0.00	0.00	0.00	0.00	66,771.41

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Rock

2/2 - 409.16 TN (\$6,751.19)  
 2/6 - 314.49 TN (\$5,189.13)  
 2/7 - 168.63 TN (\$2,782.41)  
 4/13 - 98.82 TN (\$1,630.54)  
 4/26 - 71.71 TN (\$1,183.22)  
 5/8 - 190.77 TN (\$3,147.72)  
 5/24 - 309.08 TN (\$5,099.85)

TOTALS - 1,562.66 TN (\$25,784.06)

CTB

2/9 - 303.17 TN (\$14,855.33)  
 4/14 - 100.73 TN (\$4,935.77)  
 4/27 - 55.72 TN (\$2,730.28)  
 5/2 - 74.39 TN (\$3,645.11)  
 5/9 - 152.33 TN (\$7,464.17)  
 5/25 - 150.14 TN (\$7,356.86)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3JOBECTB	CTB	1.00	836.48	TN	49.00	100.00	49.00	40,987.52
3JOBEROCK	Rock	1.00	1,562.66	TN	16.50	100.00	16.50	25,783.89

Activity: 451020 Dump/Compact/Finish CTB Quantity: 1 Unit: TN

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	2,376.57	1,553.73	3,930.30	2,992.80	0.00	0.00	0.00	0.00	0.00	0.00	6,923.10
Total	2,376.57	1,553.73	3,930.30	2,992.80	0.00	0.00	0.00	0.00	0.00	0.00	6,923.10

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6,923.1000	22.0000	0.0455	314.6864	2.7500	0.3636	2.7500	2,517.4909

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
101.7500	0.0098	101.7500	38.6270	2,376.5700

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: AG010 Place/Compact Mainline Prod: UH 0.0455 Eff: 100.00 Crew Hrs: 22.00 Labor Pcs: 4.50 Equipment Pcs: 3.50

Notes: 2/9/2017 -- Dump Place Finish 300tn CTB 1/2 shift  
 4/14/2017 -- Dump place Finish CTB shuster intx 1/2 shift  
 4/27/2017 -- Dump Place Finish 75tn CTB 1/2 shift Shuster intx  
 5/2/2017 -- full shift = approx 105CY Cut/ex = Place rock = Place CTB (NE Corner) \*\*use .25  
 5/9/2017 -- Dump place rock and CTB 1/2 shift  
 5/25/2017 --Dump place finish CTB 1/2 shift

Total 2.75shifts

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
80406WATER4	Water Truck, 2 - 4 mgal	0.50	11.00	HR	30.60	100.00	30.60	336.64
806OPER4PU	Operator FM w/pickup 100/day	1.00	24.75	HR	10.81	100.00	10.81	267.60
810PNEUR9	Pneum 9-Whl Roller, 9-25 tn	1.00	22.00	HR	52.68	100.00	52.68	1,159.00
812CAT140	Finish Motor Grader, CAT 140	1.00	22.00	HR	55.89	100.00	55.89	1,229.56
O0	4-MAN - OPERATOR	1.00	24.75	MH	27.67	105.56	46.82	1,158.68
O1GRDSET	OP-GRADESETTER	1.00	22.00	MH	21.20	100.00	36.41	801.07
O2FINBLADE	OP-FINISH BLADE	1.00	22.00	MH	23.90	100.00	39.97	879.23
O4PNEUR9	OP-PNEUMATIC 9 WHEEL ROLLER	1.00	22.00	MH	19.23	100.00	33.82	744.04
TWATER	TEAM - WATER TRUCK DRIVER	0.50	11.00	MH	17.52	100.00	31.57	347.28

**Biditem**

**30**

**MISC CONCRETE RUBBLE**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	9,729.23	6,741.81	16,471.04	10,351.62	0.00	2,200.00	0.00	0.00	4,400.00	0.00	33,422.66
Total	9,729.23	6,741.81	16,471.04	10,351.62	0.00	2,200.00	0.00	0.00	4,400.00	0.00	33,422.66

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
461.2600	0.0022	461.2600	72.4595	21.0927	35.7088	0.0114

Activity: 252016 Remove MISC Conc MSF Quantity: 54.22 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	82.86	58.58	141.44	99.08	0.00	0.00	0.00	0.00	0.00	0.00	240.52
Total	4,492.76	3,176.05	7,668.81	5,371.94	0.00	0.00	0.00	0.00	0.00	0.00	13,040.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
240.5155	0.7562	1.3224	318.0671	5.1250	10.5795	0.0945	2,544.5366

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
220.3800	0.2460	4.0646	34.7981	82.8617

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Crew: 252016 Remove Curb/Flatwork Prod: UH 1.3224 Eff: 100.00 Crew Hrs: 41.00 Labor Pcs: 5.25 Equipment Pcs: 3.25

Notes: 10/14/2016 0.25 1 1 Shuster/oregon slurry cap  
 10/20/2016 0.5 1 1 Misc Demo Mills and Kansas for OCS foundations  
 11/2/2016 0.75 6.22 1 Encasement Kansas between San Antonio and Overland - Hammer 12' x 14' x 1'  
 11/14/2016 0.75 7 7 Removed concrete cap off of conduits. 7 loads total - Father Rahm  
 11/30/2016 0.25 1 1 breaking misc concrete with wood ties in conflict with new AT&T trench on Rio Grande  
 12/1/2016 0.25 15 3 breaking misc concrete with wood ties in conflict with new AT&T trench on Rio Grande  
 2/5/2017 0.125 3 0 misc brick sewer trench at MSF - stockpiled to load later  
 2/7/2017 0.625 10 2 Remove concrete in sewer trench at MSF - 2 loads (includes rubble from 2/5 in ld count)  
 2/8/2017 0.5 12 2 Remove concrete in sewer trench at MSF - 2 loads (MH4)  
 2/28/2017 0.25 2 0 Remove concrete in trench for 6in fire service line MSF  
 3/20/2017 0.25 1 1 Remove Conc and repair unmarked SD in conflict with OCS  
 4/24/2017 0.25 1 1 Removed 2 abandoned light pole foundations (no pay item)  
 5/22/2017 0.125 2 1 Removed concrete SD manholes - Stanton/Kerby  
 6/2/2017 0.25 2 1 remove concrete in conflict with OCS foundation on Kansas at UP Bridge

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
806PICKHROPE	Oper 4 Pickup, 3/4 100/Day	1.00	46.13	HR	10.81	100.00	10.81	498.76
80801PECKER	Rental Backhoe w/hoeram	0.25	10.25	HR	81.73	100.00	81.73	837.76
80802CAT950	Loader, CAT 950 (3.75 - 4.0	1.00	41.00	HR	46.78	100.00	46.78	1,918.02
830CAT312	Excavator, CAT 312 1.0 cy	1.00	41.00	HR	51.64	100.00	51.64	2,117.40
L1LAB	LAB - GENERAL LABORER	2.00	82.00	MH	12.81	100.00	25.37	2,080.57
O0	4-MAN - OPERATOR	1.00	46.13	MH	27.67	105.56	46.82	2,159.60
O3CAT950	OP-CAT 950 LOADER (3.75 - 4.	1.00	41.00	MH	21.20	100.00	36.41	1,492.91
O6BCKHOE	OP-BACKHOE/LOADER	0.25	10.25	MH	21.20	100.00	36.41	373.23

O6CAT312	OP-CAT 312 EXCAVATOR, 1.0 CY	1.00	41.00	MH	22.49	100.00	38.11	1,562.50
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Activity:	252037	Remove Slury Caps Stanton	Quantity:	117.87	Unit:	CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	44.43	30.25	74.68	42.25	0.00	0.00	0.00	0.00	0.00	0.00	116.92
Total	5,236.47	3,565.76	8,802.23	4,979.68	0.00	0.00	0.00	0.00	0.00	0.00	13,781.91

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
116.9247	0.3987	2.5079	293.2321	5.8750	20.0630	0.0498	2,345.8570

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.8800	0.4893	2.0436	36.5420	44.4258

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading  
 Crew: 252037 Remove PCCP Buck & Load Prod: UH 2.5079 Eff: 100.00 Crew Hrs: 47.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Notes:

Shift	CY	LD
1/27/2017	0.5	12 2
1/28/2017	0.5	9 2
1/30/2017	0.5	9 2
1/31/2017	0.5	5 1
2/1/2017	0.5	5 1
2/2/2017	0.5	5 1
5/19/2017	0.5	21.67 4
5/23/2017	0.5	4.5 1
5/30/2017	0.5	36.5 6
5/31/2017	0.125	4.11 1
6/9/2017	0.25	1 1
6/12/2017	0.5	2.5 0
6/20/2017	0.25	1.111111111 0
6/21/2017	0.25	1.48 1
	5.875	118 23

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
806PICKHROPE	Oper 4 Pickup, 3/4 100/Day	1.00	52.88	HR	10.81	100.00	10.81	571.74
80801JD710	Rubber Tire Backhoe	2.00	94.00	HR	46.89	100.00	46.89	4,407.94
L1LAB	LAB - GENERAL LABORER	1.00	47.00	MH	12.81	100.00	25.37	1,192.51
O0	4-MAN - OPERATOR	1.00	52.88	MH	27.67	105.56	46.82	2,475.60
O1GRDSET	OP-GRADESETTER	1.00	47.00	MH	21.20	100.00	36.41	1,711.37
O6BCKHOE	OP-BACKHOE/LOADER	2.00	94.00	MH	21.20	100.00	36.41	3,422.75

Activity:	252061	Haul Off Demo	Quantity:	44	Unit:	LD
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Figure 2HR per round on misc rubble

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5RTRASH	Trash Truck 2014	1.00	88.00	HR	50.00	100.00	50.00	4,400.00

Activity:	252064	Dump Fees	Quantity:	44	Unit:	LD
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Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3RM02	Dump Fee - Concrete	1.00	44.00	LD	50.00	100.00	50.00	2,200.00

Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Hauling	GC Matl	JV Partner	Total
Total	21,776	14,772	36,548	28,651	376	86,134	0	0	31,350	0	183,060

Job Notes

2015 AZ Equipment

Labor Rates Updated on 10-28-14 by RP.  
 W/C = \$8.55 / \$100/payroll  
 PL/PD = \$9.93 / \$100/payroll  
 H & W = \$8.31 / MH

# Cost Report

Granite Construction, Inc. 12  
576965-059 Unsuitable Subgrade

Anthony Alfonso

Page 1 of 3  
07/10/2017 2:55 PM

**Biditem** **BASE BID GENERAL ACCOUNT**  
**910000**  
Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	14,358.95	520.58	14,879.53	0.00	2,488.15	808.03	0.00	0.00	0.00	0.00	18,175.71
<b>Total</b>	<b>14,358.95</b>	<b>520.58</b>	<b>14,879.53</b>	<b>0.00</b>	<b>2,488.15</b>	<b>808.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>18,175.71</b>

**Biditem** **ADMINISTRATIVE SALARIES**  
**910101**  
Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	808.03	0.00	0.00	0.00	0.00	808.03
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>808.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>808.03</b>

Activity: 170308 T&D Allocation Quantity: 995 Unit: MH

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.81
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>808.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>808.03</b>

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3*THEDI	Craft EDI	2015	1.00	995.26	MH	0.75	108.25	808.03
3AA3401	Salary EDI	2015	1.00	0.00	MO	126.00	108.25	0.00

**Biditem** **FIELD OPERATIONS & WAGES**  
**910110**  
Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Activity: 110100 Quality Control Personnel Quantity: 23 Unit: MO

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: All additional testing was by the hour // Technitian onsite already

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3MISC.CORE	Core Barrel Allowance	1.00	0.00	DY	60.00	108.25	0.00	0.00
4685.005	QC Tech ST W/ Pickup	1.00	0.00	HR	40.00	100.00	0.00	0.00
4685.010	QC Tech OT W/ Pickup	1.00	0.00	HR	65.00	100.00	0.00	0.00
4685.015	QC Tech Trip Charges	1.00	0.00	EA	20.00	100.00	0.00	0.00
4685.020	QC Tech Per Diem	1.00	0.00	DY	70.00	100.00	0.00	0.00
4685.025	QC Proctor Standard	1.00	0.00	EA	135.00	100.00	0.00	0.00
4685.030	QC Concrete Compression Test	1.00	0.00	EA	20.00	100.00	0.00	0.00
4685.035	QC PI/Gradation	1.00	0.00	EA	130.00	100.00	0.00	0.00
4685.065	QC Weekly Reports	1.00	0.00	WK	0.00	100.00	0.00	0.00



**Biditem**

**910170**

**GENERAL PROJECT EXPENSES**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	8,270.35	0.00	8,270.35	0.00	2,488.15	0.00	0.00	0.00	0.00	0.00	10,758.50
<b>Total</b>	<b>8,270.35</b>	<b>0.00</b>	<b>8,270.35</b>	<b>0.00</b>	<b>2,488.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>10,758.50</b>

Activity: 120203 Hourly Subsistence Quantity: 995 Unit: HR

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Notes: Hourly Subsistence = \$7.50/MH

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	995.26	LBHR	7.50	100.00	7.65	7,610.75

Activity: 170100 Small Tools Quantity: 995 Unit: MH

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Notes: \$2.5/MH

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	995.26	LBHR	2.50	100.00	2.50	2,488.15

Activity: 170399 Holiday Pay Quantity: 995 Unit: MH

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZZERO WC Set to Zero Indirect Calc

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	995.26	LBHR	0.65	100.00	0.66	659.60

**Biditem**

**910175**

**LICENSES/FEES/BONDS**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

Activity: 175300 Contract Bond Quantity: 19.1 Unit: M\$

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Cost calculated on cover sheet

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
ZBOND	Granite Bon 4.71/1000 + Marg	1.00	0.00	M\$	5.23	100.00	0.00	0.00

**Biditem**

**910190**

**CLEARING/OFFSET ACCOUNTS**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
U. Cost	6,088.60	520.58	6,609.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,609.18
<b>Total</b>	<b>6,088.60</b>	<b>520.58</b>	<b>6,609.18</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6,609.18</b>

Activity: 175210 Builders Risk Premium Quantity: 19.1 Unit: M\$

Calendar: 401 5 DPW-8 HPS-1 SPD Hrs/Shift: 8 WC: AZ5507 Street/Road Grading

Notes: Cost calculated on the cover sheet.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
ZZ	ALLOWANCES	1.00	0.00	LS	0.00	100.00	0.00	0.00

Activity:	190995	Area/Region	Supervision	Quantity:	995	Unit:	MH
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Calendar: 401    5 DPW-8 HPS-1 SPD    Hrs/Shift: 8    WC:    AZ8742    Salesmen

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z*TH	Total Labor Hours	1.00	995.26	LBHR	6.00	100.00	6.64	6,609.18

**Report Summary**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Hauling	GC Matl	JV Partner	Total
Total	14,359	521	14,880	0	2,488	808	0	0	0	0	18,176

**Job Notes**