



Tri-Cities Airport  
Runway 3-21 Rehabilitation Construction  
MJ Project No. 17309.15  
Runway 21 RSA Improvements

### **Justification:**

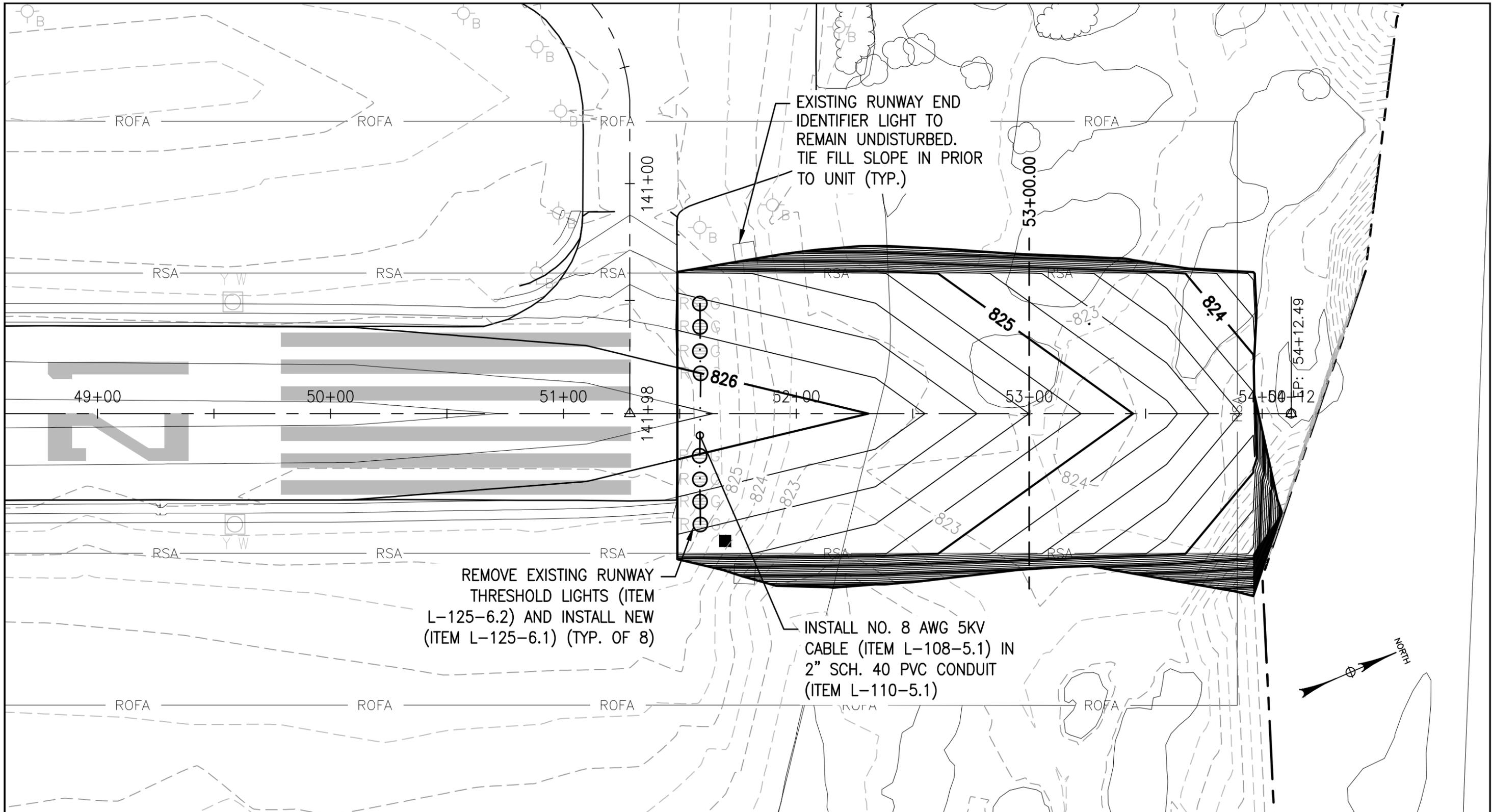
The existing Runway 21 Extended Runway Safety Area (RSA) does not meet the current FAA standards for grading. FAA AC 150/5300-13A requires an RSA that is 120 feet wide and 240 feet beyond the runway threshold for B-I aircraft. Grading restrictions within this area included the following:

- First 200 feet beyond the runway – maximum longitudinal grade between 0% and -3%
- Remaining RSA length - maximum allowable positive longitudinal grade is such that no part of the RSA penetrates any applicable approach surface or clearway plane. The maximum allowable negative grade is 5.0 percent.

The current RSA has an existing longitudinal grade of approximately 6% in the first 50 feet of the extended RSA, and consists of a combination of paved and unpaved surfaces with significant fluctuations in surface gradient. The proposed improvements will bring the airport into compliance with current FAA requirements, and the finished product will be a contiguous, paved RSA.

### **Proposed Work Change Description:**

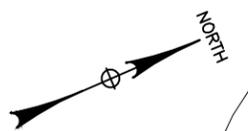
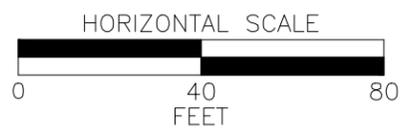
- Provide a paved RSA surface consisting of 2" bituminous top course, 3" bituminous binder course, and minimum of 12" crushed aggregate base course.
- Installed yellow chevron pavement markings on the RSA.
- Remove and install new runway threshold lights at the proposed RSA finished grade.



EXISTING RUNWAY END IDENTIFIER LIGHT TO REMAIN UNDISTURBED. TIE FILL SLOPE IN PRIOR TO UNIT (TYP.)

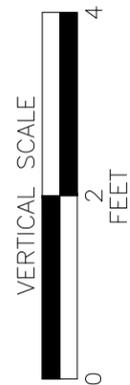
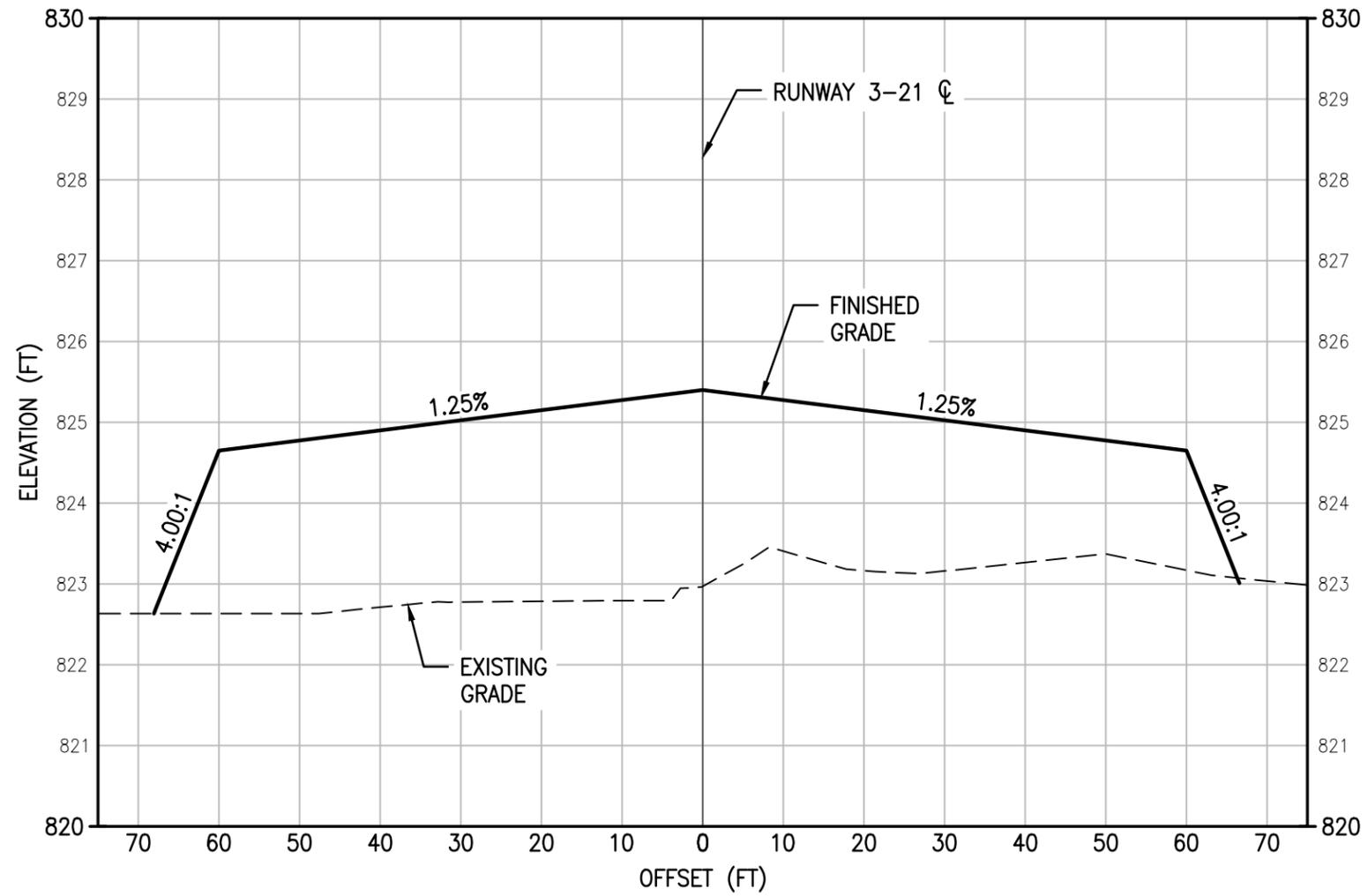
REMOVE EXISTING RUNWAY THRESHOLD LIGHTS (ITEM L-125-6.2) AND INSTALL NEW (ITEM L-125-6.1) (TYP. OF 8)

INSTALL NO. 8 AWG 5KV CABLE (ITEM L-108-5.1) IN 2" SCH. 40 PVC CONDUIT (ITEM L-110-5.1)

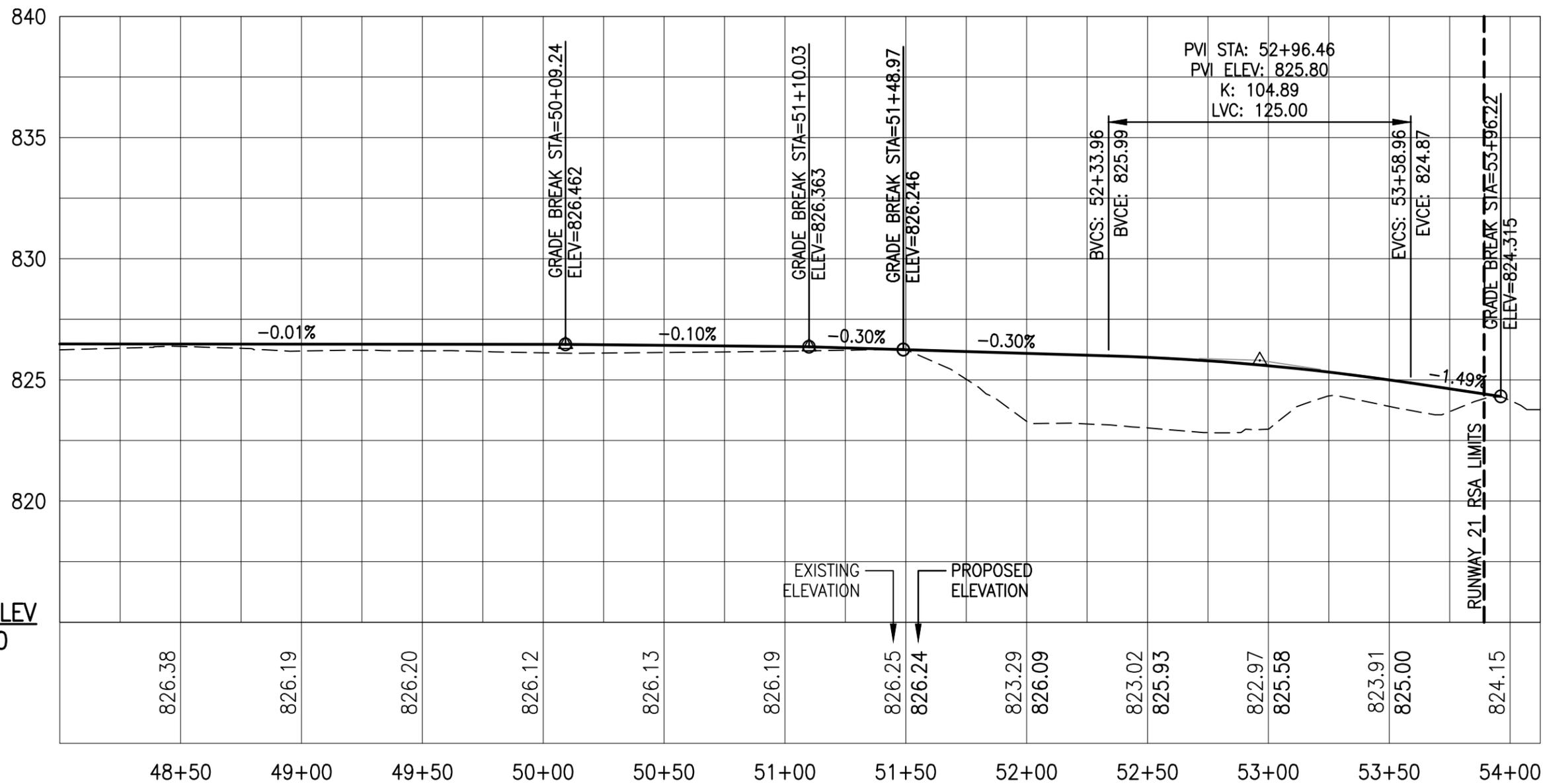


TRI CITIES AIRPORT ENDICOTT, NEW YORK		
RUNWAY 21 RSA IMPROVEMENTS		
SCALE: 1" = 40'	DATE: MAY 2015	FIGURE: 1

### CROSS SECTION – STA. 53+00



TRI CITIES AIRPORT ENDICOTT, NEW YORK		
<b>RUNWAY 21 RSA IMPROVEMENTS</b>		
SCALE: AS SHOWN	DATE: JANUARY 2015	FIGURE: 2
		

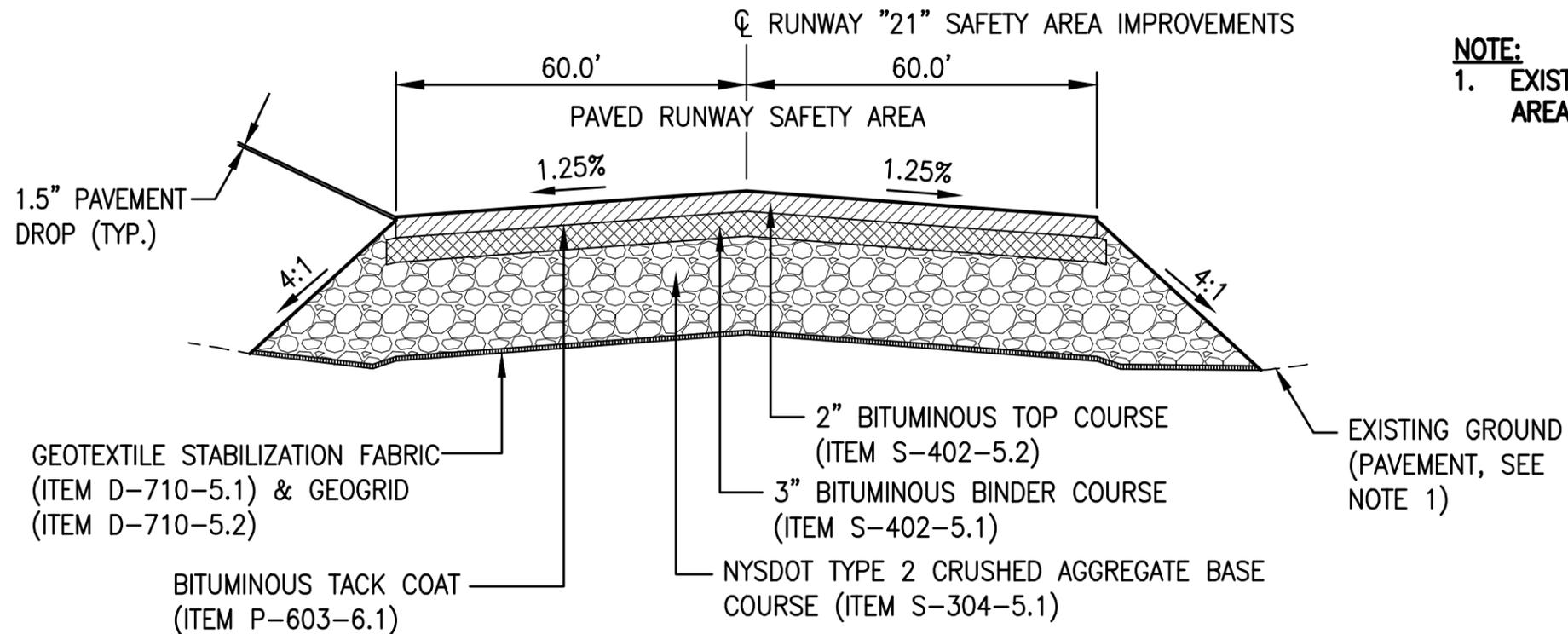


TRI CITIES AIRPORT  
ENDICOTT, NEW YORK

**RUNWAY 21 RSA  
IMPROVEMENTS**

SCALE: AS SHOWN    DATE: JANUARY 2015    FIGURE: 3

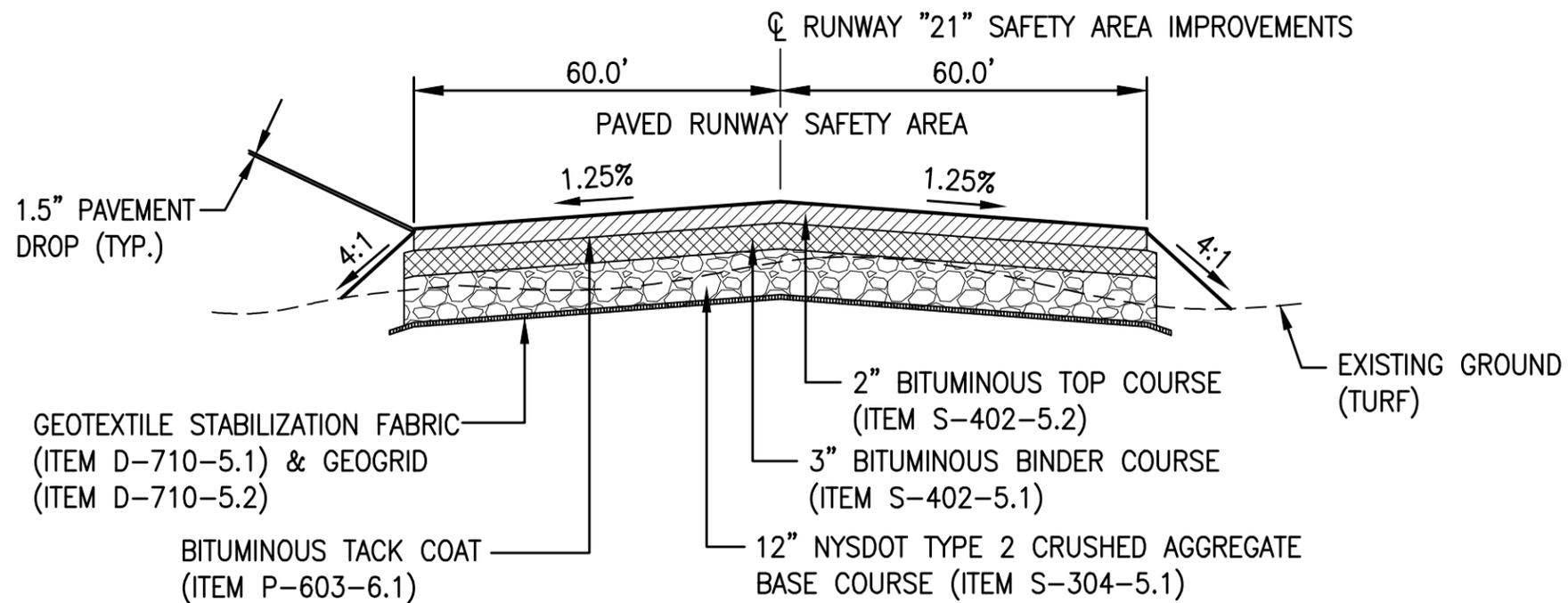




**NOTE:**  
 1. EXISTING PAVED RUNWAY SAFETY AREA SHALL NOT BE DISTURBED.

**RUNWAY 21 SAFETY AREA TYPICAL SECTION (PAVED AREA)**

STA. 52+35 TO 53+95  
 NOT TO SCALE



**RUNWAY 21 SAFETY AREA TYPICAL SECTION (TURF AREA)**

STA. 51+50 TO 52+35  
 NOT TO SCALE

TRI CITIES AIRPORT ENDICOTT, NEW YORK		
RUNWAY 21 RSA IMPROVEMENTS		
SCALE: AS SHOWN	DATE: MAY 2015	FIGURE: 4
		



TRI-CITIES AIRPORT - RSA MODIFICATIONS  
SUPPLEMENTAL WORK

Item #	Description	Qty	Unit	Unit Price	Total Price
M100-5.1	Mobilization (3%)	\$ 1.00	LS	\$8,581.50	\$8,581.50
M150-5.1	Project Survey & Stakeout	\$ 1.00	LS	\$10,000.00	\$10,000.00
P-154-4.1	Unclassified Excavation	\$ 430.00	CY	\$25.00	\$10,750.00
D-710-5.1	Tensar Geogrid	\$ 3,600.00	SY	\$3.00	\$10,800.00
D-710-5.2	Geotextile Stabilization fabric	\$ 3,600.00	SY	\$2.50	\$9,000.00
P-620-6.1	Perm Pavt Mrkg Reflectorized	\$ 1,600.00	SF	\$1.00	\$1,600.00
L-108-6.1	No. 8, 5KVA cable	\$ 220.00	LF	\$5.00	\$1,100.00
L-110-6.1	2" Sch 40 PVC Conduit	\$ 110.00	LF	\$20.00	\$2,200.00
L-125-6.1	New Med Intensity Runway Threshold Lights	\$ 8.00	EA	\$1,100.00	\$8,800.00
L-125-6.2	Remove Existing Runway Threshold Lights	\$ 8.00	EA	\$100.00	\$800.00
S-304-5.1	Crushed Aggregate Subbase Course	\$ 1,600.00	CY	\$75.00	\$120,000.00
S-402-5.1	Hot Mix Asph Top Course	\$ 400.00	TON	\$120.00	\$48,000.00
S-402-5.2	Hot Mix Asph Binder Course	\$ 600.00	TON	\$105.00	\$63,000.00
<b>\$294,631.50</b>					

Construction Schedule - Completed within 3 weeks of NTP.

Construction Administration - 15 days of Full Time Inspection

\$27,500.00

Total

\$322,131.50

Available Funding Remaining on Contract

\$335,438.35

## Michael Churchill

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**From:** Farmer, Tom [TFarmer@DalHolding.com]  
**Sent:** Thursday, July 09, 2015 8:12 AM  
**To:** Michael Churchill  
**Cc:** Farmer, Betsy  
**Subject:** Tri-Cities Airport

Attached find revised pricing for the R/W Ext at Tri-Cities  
This pricing is for the items listed only.  
Price based on wasting excess excavation on airport site.  
Price based on a mutually agreeable schedule.  
Price based on Series 80 asphalt paving.

<u>Item #</u>	<u>Description</u>	<u>Qty</u>	<u>Unit Price</u>	<u>Total Price</u>
M100-5.1	Mobilization (3%)	1.00 ls	\$8,581.50	\$8,581.50
M150-5.1	Project Survey & Stakeout	1.00 ls	\$10,000.00	\$10,000.00
P-154-4.1	Unclassified Excavation	430.00 cy	\$25.00	\$10,750.00
D-710-5.1	Tensar Geogrid	3,600.00 sy	\$3.00	\$10,800.00
D-710-5.2	Geotextile Stabilization fabric	3,600.00 sy	\$2.50	\$9,000.00
P-620-6.1	Perm Pavt Mrkg Reflectorized	1,600.00 sf	\$1.00	\$1,600.00
L-108-6.1	No. 8, 5KVA cable	220.00 lf	\$5.00	\$1,100.00
L-110-6.1	2" Sch 40 PVC Conduit	110.00 lf	\$20.00	\$2,200.00
L-125-6.1	New Med Intensity Runway Threshold Lights	8.00 ea	\$1,100.00	\$8,800.00
L-125-6.2	Remove Existing Runway Threshold Lights	8.00 ea	\$100.00	\$800.00
S-304-5.1	Crushed Aggregate Subbase Course	1,600.00 cy	\$75.00	\$120,000.00
S-402-5.1	Hot Mix Asph Top Course	400.00 tn	\$120.00	\$48,000.00
S-402-5.2	Hot Mix Asph Binder Course	600.00 tn	\$105.00	\$63,000.00
Estimated Total				\$294,631.50

### Thomas J. Farmer

Dalrymple Gravel & Contracting Co., Inc.  
2105 South Broadway  
Pine City, NY 14871

phone: (607) 737-6200, ext 115

cell: (607) 738-9026

fax: (607) 767-0841

[www.dalrymplegravel.com](http://www.dalrymplegravel.com)

**EXHIBIT B**  
**Runway 3-21 Rehabilitation CA**

Village of Endicott

8/1/15



**FEE SUMMARY**

	<b>CONSTRUCTION SERVICES</b>
<b>1. DIRECT TECHNICAL LABOR</b>	<b>\$7,423.00</b>
<b>2. ESTIMATED OVERHEAD EXPENSES AND PAYROLL BURDEN</b> Based on Percentage of Direct Salary Cost (exclusive of Premium Pay) with the estimated Percentage being 175.00 %	<b>\$12,990.25</b>
<b>3. SUBTOTAL OF ITEMS 1 &amp; 2</b>	<b>\$20,413.25</b>
<b>4. FIXED FEE / PROFIT</b>	<b>\$3,061.99</b>
<b>5. DIRECT EXPENSES</b>	<b>\$593.00</b>
<b>6. SUBCONSULTANT COSTS</b>	
Subconsultant 1 Name	
Subconsultant 2 Name	
<b>7. SUBCONTRACT COSTS - (ESTIMATE )</b>	<b>\$2,500.00</b>
Materials Testing	\$2,500
Geotechnical Services	
<b>8. OVERTIME PREMIUM</b>	<b>\$500.00</b>
<b>9. TOTAL FEE ESTIMATE</b>	<b>\$27,068.24</b>

**10. TOTAL FEE FOR ALL SERVICES**

<b>\$27,069</b>
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**NOTE: Authorized hours worked in excess of forty per week are subject to a premium time charge**

# Runway 3-21 Rehabilitation CA

## Village of Endicott

8/1/15



**McFarland Johnson**

### DIRECT COSTS

	CONSTRUCTION SERVICES
Travel Related Costs:	
Vehicle Cost Plus Fuel	\$323
Per Diem	\$270
Reproduction	
CADD Plots	
Prints	
Photocopies	
Photo Costs	
Telephone/Fax:	
Postage/Delivery	
Miscellaneous	
	\$593
	<b>\$593</b>

Runway 3-21 Rehabilitation CA

Village of Endicott



8/1/15

ESTIMATED HOURS

		HOURS BY CLASSIFICATION									
		VP	DM	SPM	SE	ST	AT	CS	SI	I	SUM
		\$84.47	\$67.98	\$61.37	\$36.96	\$28.82	\$22.34	\$46.20	\$36.66	\$31.02	
PHASE/TASK	DESCRIPTION										
	Administration and Project Management Phase			16	4				8		28
BTCONS	Consultation			4							4
BTSITE	Site Visit			4					4		8
BTMEET	Meetings				4				4		8
BTSHOP	Shop Drawing / Submittal Review										
BTADMN	Project Management			8							8
	Construction Observation Phase			2					154		156
BTPAYM	Applications for Payment			2					4		6
BTINSP	Resident Engineer								150		150
	Grant Administration / Project Closeout Phase					8					8
BTGRNT	Grant Administration					8					8
BTCLOT	Project Closeout										
BTRECP	Prepare Record Plans										
<b>Total Hours - Construction Services</b>				18	4	8			162		192
<b>Total Labor Cost - Construction Services</b>				\$1,105	\$148	\$231			\$5,939		\$7,423