

<b>To:</b>	All Plan Holders	<b>Project:</b>	Taxiway Reconfiguration Project
<b>Airport:</b>	San Angelo Regional Airport	<b>KSA Project No.:</b>	SAN.059
<b>Date:</b>	07/24/2017	<b>Client Project No.:</b>	AP-02-17

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The plans, specifications, and contract documents are modified as described below. All bidders shall acknowledge receipt of this and all other addenda on the revised bid form. This addendum becomes a part of the contract documents. All provisions of the original plans, specifications, and contract documents shall remain in full force and effect, except as modified by this addendum.

I. **Contract Document Revisions**

A. **Bid Form**

Replace with the attached **Revised Bid Form**. Note that the award of bids will be based on the bid items and quantities as **listed** in the **Revised Bid Form**. Any variance in bid submittals from the **Revised Bid Form** will result in the bid being disqualified.

II. **Plan Revisions**

A. Plan Sheet 2, General Notes and Summary of Quantities

1. Replace with the attached Revised Plan Sheet 2, General Notes and Summary of Quantities

B. Plan Sheet 26, Marking Demo Plan Page 1

1. Replace with the attached Revised Plan Sheet 26, Marking Demo Plan Page 1

III. **Attachments**

- A. Plan Sheet 2, General Notes and Summary of Quantities
- B. Plan Sheet 26, Marking Demo Plan Page 1
- C. Pre-Bid Meeting Question and Answer Sheet
- D. Updated Bid Form (Add. 2)

Addendum No. 2 Issued By:  
KSA

  
David A. Alexander, P.E.  
Project Manager



TBPE Firm Registration No. F-1356

# GENERAL NOTES

ADDITIONAL NOTES ON PLAN SHEETS

## SAFETY NOTES:

- WHILE THE AIRPORT IS OPEN, NO VEHICLE OR EQUIPMENT SHALL MOVE UPON APRONS, TAXIWAYS AND/OR RUNWAYS UNTIL THE VEHICLE IS GRANTED PERMISSION BY THE CONTROL TOWER. PERMISSION SHALL BE COORDINATED THROUGH THE AIRPORT DIRECTOR, LUIS ELGUEZABAL (325-659-6409). ONCE GRANTED PERMISSION, VEHICLE MAY PROCEED BY COORDINATING WITH THE TOWER ON THE APPROPRIATE GROUND CONTROL RADIO FREQUENCY, OR BE UNDER ESCORT BY A VEHICLE COORDINATING WITH THE TOWER ON THE APPROPRIATE GROUND CONTROL RADIO FREQUENCY. ALL VEHICLES MUST BE IDENTIFIED BY FLAG AND FLASHING AMBER LIGHT.
- FLAGMEN WILL BE REQUIRED TO DIRECT THE CONTRACTOR'S VEHICLES AND EQUIPMENT WHICH ARE OPERATING IN THE AREA OF MOVING AIRCRAFT. FLAGMEN TO MONITOR UNICOM, FREQUENCY 122.95 MHZ. AIRCRAFT ALWAYS HAVE THE RIGHT-OF-WAY.
- CONSTRUCTION PERSONNEL AND EQUIPMENT WILL NOT BE ALLOWED WITHIN THE AIRPORT OPERATIONS AREA (AOA) UNTIL THE AREA HAS BEEN CLOSED TO AIRCRAFT AND NOTAMS ISSUED.
- REFERENCE AC 150/5370-2F, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- GENERAL SAFETY REQUIREMENTS: DURING PERFORMANCE OF THIS CONTRACT, THE AIRPORT RUNWAYS, TAXIWAYS, AND AIRCRAFT PARKING APRONS SHALL REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE. AIRCRAFT USE OF AREAS NEAR THE CONTRACTOR'S WORK WILL BE CONTROLLED TO MINIMIZE DISTURBANCE TO THE CONTRACTOR'S OPERATION. THE CONTRACTOR SHALL NOT ALLOW HIS/HER EMPLOYEES, SUBCONTRACTOR'S SUPPLIERS, OR ANY PERSON OVER WHOM HE/SHE HAS CONTROL TO ENTER OR REMAIN IN ANY PART OF THE AIRPORT WHICH WOULD BE HAZARDOUS TO PERSONS OR TO AIRCRAFT OPERATIONS. WHENEVER AIRCRAFT OPERATIONS REQUIRE, THE ENGINEER, MAY ORDER THE CONTRACTOR TO SUSPEND OPERATIONS, MOVE PLANT, PERSONNEL, EQUIPMENT, AND MATERIALS TO A SAFE LOCATION AND STAND BY UNTIL AIRCRAFT USE IS COMPLETED.
- VEHICLE IDENTIFICATION AND PARKING: (A) CONTRACTOR VEHICLES AND EQUIPMENT SHALL BE IDENTIFIED BY FLAGS AND AMBER FLASHING LIGHTS. (B) EMPLOYEE PARKING SHALL BE IN THE CONTRACTOR'S STAGING AND STORAGE AREA.
- THE CONTRACTOR SHALL NOT, FOR ANY REASON ENTER ACTIVE AIRFIELD AREAS WITHOUT EXPLICIT APPROVAL BY AIRPORT MANAGEMENT. THE CONTRACTOR SHALL LIMIT OPERATIONS TO LIMITS OF CONSTRUCTION ACTIVITIES.
- RUNWAY 18/36 MUST BE CLOSED ANYTIME CONSTRUCTION ACTIVITY IS OCCURRING WITHIN 250' ON EITHER SIDE OF THE RUNWAY CENTERLINE. THE NUMBER AND THE DURATION OF RUNWAY CLOSINGS SHALL BE MINIMIZED. IN ORDER TO MINIMIZE RUNWAY CLOSURES, MULTIPLE CONSTRUCTION ACTIVITIES NEAR THE RUNWAY SHOULD OCCUR SIMULTANEOUSLY WHEN IT IS CLOSED.
- THE CONTRACTOR SHALL EQUIP ALL CONSTRUCTION VEHICLES AND EQUIPMENT WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE AND READILY VISIBLE OR AMBER FLASHING LIGHT DURING DAY HOURS AND AMBER FLASHING LIGHT DURING NIGHT HOURS. THE FLAG SHALL BE NOT LESS THAN 3 FEET SQUARE CONSISTING OF A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES NOT LESS THAN ONE FOOT ON EACH SIDE AND DISPLAYED IN FULL VIEW ABOVE THE VEHICLE.
- ALL EQUIPMENT AND MATERIALS SHALL BE STORED IN THE CONTRACTOR'S STAGING AND STORAGE AREA WHEN NOT IN USE. EQUIPMENT AND MATERIALS SHALL NOT ENCRoACH UPON ACTIVE OPERATIONAL AREAS. MINIMUM CLEARANCES SHALL BE MAINTAINED ON RUNWAYS IN ACCORDANCE WITH PART 77 OF THE FEDERAL AVIATION REGULATIONS.
- ALL EXCAVATIONS, OPEN TRENCHES AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHT UNITS ACCEPTABLE TO THE ENGINEER DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRPLANES MUST NOT BE PLACED ON ACTIVE AIRPLANE MOVEMENT AREAS. MATERIAL TRACKED ON THESE AREAS MUST BE REMOVED CONTINUOUSLY BY A SWEEPER OR VACUUM TRUCK SUPPLIED BY THE CONTRACTOR DURING THE PROJECT. NO DIRECT PAY IN BID PROPOSAL.

## CONSTRUCTION NOTES:

- AIRPORT SECURITY IS OF UTMOST IMPORTANCE. THE CONTRACTOR SHALL SUPPLY HIS OWN LOCK FOR ACCESS GATES, AND SHALL KEEP THE GATES LOCKED OR GUARDED AT ALL TIMES, EXCEPT FOR THE BRIEF PERIOD REQUIRED FOR PASSAGE OF AUTHORIZED VEHICLES OR EQUIPMENT.
- EACH CONSTRUCTION AREA SHALL BE SHAPED TO ALLOW DRAINAGE OF SURFACE WATER DURING EACH WORK OPERATION. THE CONTRACTOR SHALL PUMP SURFACE WATER IMMEDIATELY FROM EACH CONSTRUCTION AREA AFTER EACH RAIN.
- THE MAJORITY OF THE WORK WILL BE ACCOMPLISHED DURING NORMAL DAYTIME WORKING HOURS, OR AS APPROVED BY THE ENGINEER.
- STOCKPILE LOCATION SHALL BE ADJUSTED IN THE FIELD AND COORDINATED WITH THE ENGINEER. STOCKPILE SHALL NOT CREATE ANY PONDING OF WATER OR ALTER DRAINAGE PATTERNS OF THE AIRPORT PROPERTY EXCEPT AS SHOWN IN THESE PLANS.
- ALL WASTE OR SPOIL MATERIAL SHALL BE DISPOSED OF OFF THE AIRPORT PROPERTY BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS AND DRAINAGE STRUCTURES TO CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT EACH POINT WHERE CONSTRUCTION CREWS OR EQUIPMENT WILL EXIT AIRPORT PROPERTY.
- THE CONTRACTOR SHALL NOT, FOR ANY REASON ENTER ACTIVE AIRFIELD AREAS WITHOUT EXPLICIT APPROVAL BY AIRPORT MANAGEMENT. THE CONTRACTOR SHALL LIMIT OPERATIONS TO LIMITS OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING PAVEMENTS, UNDERGROUND CABLES, PIPELINES, ETC. ENCOUNTERED DURING CONSTRUCTION. ALL REPAIRS MUST BE MADE IN COMPLIANCE WITH THE CITY OF SAN ANGELO, THE ENGINEER, AND THE FAA REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND ACQUIRING AN ACCEPTABLE WATER SOURCE AS REQUIRED FOR CONSTRUCTION. CITY WATER IS AVAILABLE ON AIRPORT PROPERTY NEAR THE CONSTRUCTION SITE. CONTACT THE CITY OF SAN ANGELO WATER DEPARTMENT, (325-657-4323) FOR REQUIREMENTS FOR USING CITY WATER. THE CONTRACTOR SHOULD CHECK WITH THE REVENUE DEPARTMENT PRIOR TO PREPARING HIS BID IN ORDER TO DETERMINE ANY COST FOR WATER USED. NO DIRECT PAY PROVIDED IN BID PROPOSAL.
- THE CONTRACTOR MUST PROVIDE A MINIMUM OF 72 HOURS NOTICE TO THE RESIDENT PROJECT REPRESENTATIVE (RPR), PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. A NOTICE TO AIRMEN (NOTAM) SHALL BE ISSUED. THE CONTRACTOR SHALL NOTIFY THE RPR WHO WILL THEN NOTIFY THE ENGINEER AND THE AIRPORT.

- CONTRACTOR SHALL CLEAN UP ALL MUD, DIRT AND DEBRIS DROPPED ON EXISTING PAVEMENT AS A RESULT OF CONSTRUCTION ACTIVITIES ON A DAILY BASIS. ALL CLEANUP MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- ALL TRAFFIC CONTROL AND WARNING SIGNS SHALL BE IN ACCORDANCE WITH TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL PROVIDE RESTROOM FACILITIES FOR HIS EMPLOYEES.
- THE CONTRACTOR, ON BEHALF OF THE OWNER, WILL OBTAIN ALL PERMITS REQUIRED BY THE CITY OF SAN ANGELO AND/OR TOM GREEN COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION.

## ACCESS ROUTE NOTES:

- DAMAGE TO EXISTING PAVEMENTS WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION AT NO EXPENSE TO THE OWNER.
- ACCESS ROUTES FOR EACH CONSTRUCTION PHASE SHALL BE COORDINATED WITH THE ENGINEER. ROUTES SHOWN ARE PRELIMINARY ONLY, AND SUBJECT TO APPROVAL AND ADJUSTMENT BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ACCESS ROUTES (PAVED & UNPAVED). SEE PHASING PLANS FOR ADDITIONAL ACCESS ROUTE INFORMATION.
- THE PAVEMENT ON THE ACCESS ROUTES MAY NOT SUPPORT CONSTRUCTION TRAFFIC. THE CONTRACTOR SHALL LIMIT LOADS AS NECESSARY TO PREVENT DAMAGE. IF PAVEMENTS TO REMAIN ARE DAMAGED OR REMOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE PAVEMENT TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTOR'S EXPENSE, AND IN ACCORDANCE WITH THE CITY OF SAN ANGELO'S SPECIFICATIONS.
- AIRCRAFT ALWAYS HAVE THE RIGHT OF WAY.
- CONTRACTOR SHALL SWEEP PAVEMENTS FREQUENTLY TO KEEP FREE OF DEBRIS.
- CONTRACTOR SHALL WATER EXCAVATION, EMBANKMENT, BORROW AREAS AND ACCESS ROUTES AS REQUIRED TO MINIMIZE DUST ON THE RUNWAY, TAXIWAYS AND OTHER AIRCRAFT OPERATIONS AREAS AS DIRECTED BY THE ENGINEER OR HIS REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL OVER THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL LOCATE, MARK, AND PROTECT EXISTING ELECTRICAL CABLES, TELEPHONE CABLES, WATER UTILITIES, AND WASTE WATER UTILITIES. ANY DAMAGE TO THESE FACILITIES SHALL BE REPAIRED AT NO COST TO THE OWNER.

## EXISTING UTILITY & PIPELINE NOTES:

- TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING UTILITIES DURING CONSTRUCTION AND SHALL REPAIR ALL DAMAGES TO SAID UTILITIES AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES AND SHALL NOTIFY THE FOLLOWING AGENCY 48 HOURS PRIOR TO EXCAVATING NEAR EXISTING FACILITIES:

NATIONAL ONE-CALL

8-1-1

## ENVIRONMENTAL NOTES:

- IN THE EVENT THAT UNANTICIPATED ARCHEOLOGICAL DEPOSITS ARE ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL CEASE AND THE ENGINEER WILL CONTACT PROFESSIONAL ARCHEOLOGISTS TO INITIATE POST-REVIEW DISCOVERY PROCEDURES UNDER THE PROVISIONS OF 36 CRF 800.13.
- IN THE EVENT THAT UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL CEASE AND THE ENGINEER WILL BE NOTIFIED.
- STOCKPILES AND STAGING AREAS WILL NOT BE PLACED WITHIN ANY WATER OF THE UNITED STATES, INCLUDING WETLANDS.
- HAZARDOUS WASTE: ALL SPILLS MUST BE REPORTED IMMEDIATELY TO THE TxDOT PROJECT MANAGER.

# SUMMARY OF QUANTITIES

Base Bid Item 1: Mobilization, Temporary Access and Erosion/Sedimentation Control Measures					
Item No.	Spec. No.	Description	Units	Estimated Quantity	Actual Quantity
1.01	KSA-100	Mobilization	LS	1	
1.02	KSA-105	Barricades and Markings for Pavement Closures	LS	1	
1.03	P-156	Stormwater Pollution Prevention Plan (SWP3) Document	LS	1	
1.04	P-156	Temporary Sediment Control Fence	LF	1500	
1.05	P-156	Rock Construction Exit	EA	2	
1.06	T-905	Topsoling (Obtained on Site or Removed from Stockpile)	CY	1736	
1.07	T-901	Seeding	AC	6	
1.08	T-904	Sodding	SY	1362	

Base Bid Item 2: Reconfiguration Taxiways C and E					
Item No.	Spec. No.	Description	Units	Estimated Quantity	Actual Quantity
2.01	P-152	Unclassified Excavation	CY	3934	
2.02	P-152	Unclassified Embankment	CY	3450	
2.03	P-101	Asphaltic Concrete Pavement Removal	SY	11800	
2.04	P-155	8" Lime Treated Subgrade	SY	15010	
2.05	P-155	Hydrated Lime (7%)	TON	380	
2.06	P-403	11" HMA Base Course	TON	9322	
2.07	P-401	5" HMA Surface Course	TON	3886	
2.08	P-610	Portland Cement Concrete	CY	75	
2.09	P-602	Bituminous Prime Coat	GAL	2825	
2.10	---	Artificial Turf	SY	1965	
2.11	D-751	4' X 4' Grate Inlet	EA	1	
2.12	D-701	24" Class III RCP	LF	32	
2.13	D-701	18" x 28.5" Class III RCP Arch Pipe	LF	204	
2.14	D-752	Sloped End Treatment for Arch Pipe	EA	2	
2.15	P-620	Yellow Markings (Reflective)	SF	20780	
2.16	P-620	Red Markings (Non-Reflective)	SF	2355	
2.17	P-620	Surface Painted Signs	EA	4	
2.18	P-620	Black Markings (Non-Reflective)	SF	14875	
2.19	P-620	Pavement Marking Removal	SF	18235	

Base Bid Item 3: Taxiway and Island Lighting, Other Electrical Improvements					
Item No.	Spec. No.	Description	Units	Estimated Quantity	Actual Quantity
3.01	-	Mobilization	LS	1	
3.02	L-108-5.1	No. 8 AWG, 5 KV, L-824, Type C Cable, Installed in Conduit	LF	7500	
3.03	L-108-5.2	No. 6 AWG, Solid Bare Counterpoise Wire, Installed in Trench, Including Ground Rods and Ground Connectors	LF	5000	
3.04	L-108-5.3	Remove Existing No. 8 AWG, L-824C in 2" Conduit	LF	8000	
3.05	L-108-5.4	Remove No. 6 AWG, Solid, Bare Counterpoise Wire, Installed in Trench, Including Ground Rods	LF	6000	
3.06	L-110-5.1	Install 2" PVC Schedule 40 Conduit in Trench including Excavation and Backfill	LF	5000	
3.07	L-110-5.2	Install 2" HDPE SDR 11 Conduit Directional Boring under Pavement	LF	1200	
3.08	L-110-5.3	Remove Existing 2" Conduit	LF	7000	
3.09	L-110-5.4	Install 2" Conduit in Concrete Encased Duct Bank	LF	1200	
3.10	L-115-5.1	Install L-887E Electrical Handhole	EA	3	
3.11	L-115-5.2	Remove Existing Handhole	EA	2	
3.12	S-E125-5.1	Install Can-Mounted Elevated MITL/MIRL, Transformer, Base Can and Concrete Pad	EA	53	
3.13	S-E125-5.2	Install In-Pavement Elevated MITL, Transformer, Base Can in Existing PCC Pavement	EA	19	
3.14	S-E125-5.3	Install Base Mounted Sign L-858, Size 2 with Sign Legends per drawings, all in place	EA	13	
3.15	S-E125-5.4	Remove Existing Can-Mount Elevated MITL/MIRL including Transformer, Base Can, and Concrete Pad	EA	55	
3.16	S-E125-5.5	Remove Base Mounted Sign L-858, Size 2 and Concrete Pad	EA	9	
3.17	S-E890-5.1	Install Airfield Lighting Control and Monitoring System (ALCMS)	LS	1	
3.18	S-E890-5.2	Remove Existing Airfield Lighting Control and Monitoring System	LS	1	
3.19	S-E890-5.3	Install a Wireless WIFI Bridge Network System for the ALCMS	LS	1	

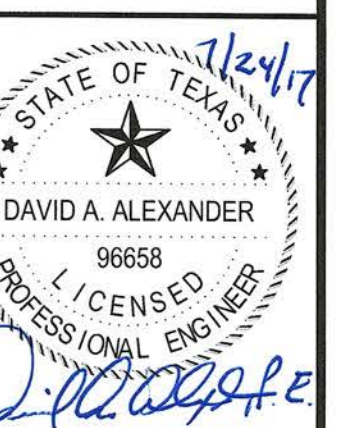
Additive Alternate Item 1: Apron Edge Repair					
Item No.	Spec. No.	Description	Units	Estimated Quantity	Actual Quantity
AA1.01	P-152	Unclassified Excavation	CY	575	
AA1.02	P-101	Asphaltic Concrete Pavement Removal	SY	1000	
AA1.03	P-501	24" PCC Pavement	SY	1000	

7/24/17	ADDITIONAL 2	MARK	REVISION	DATE

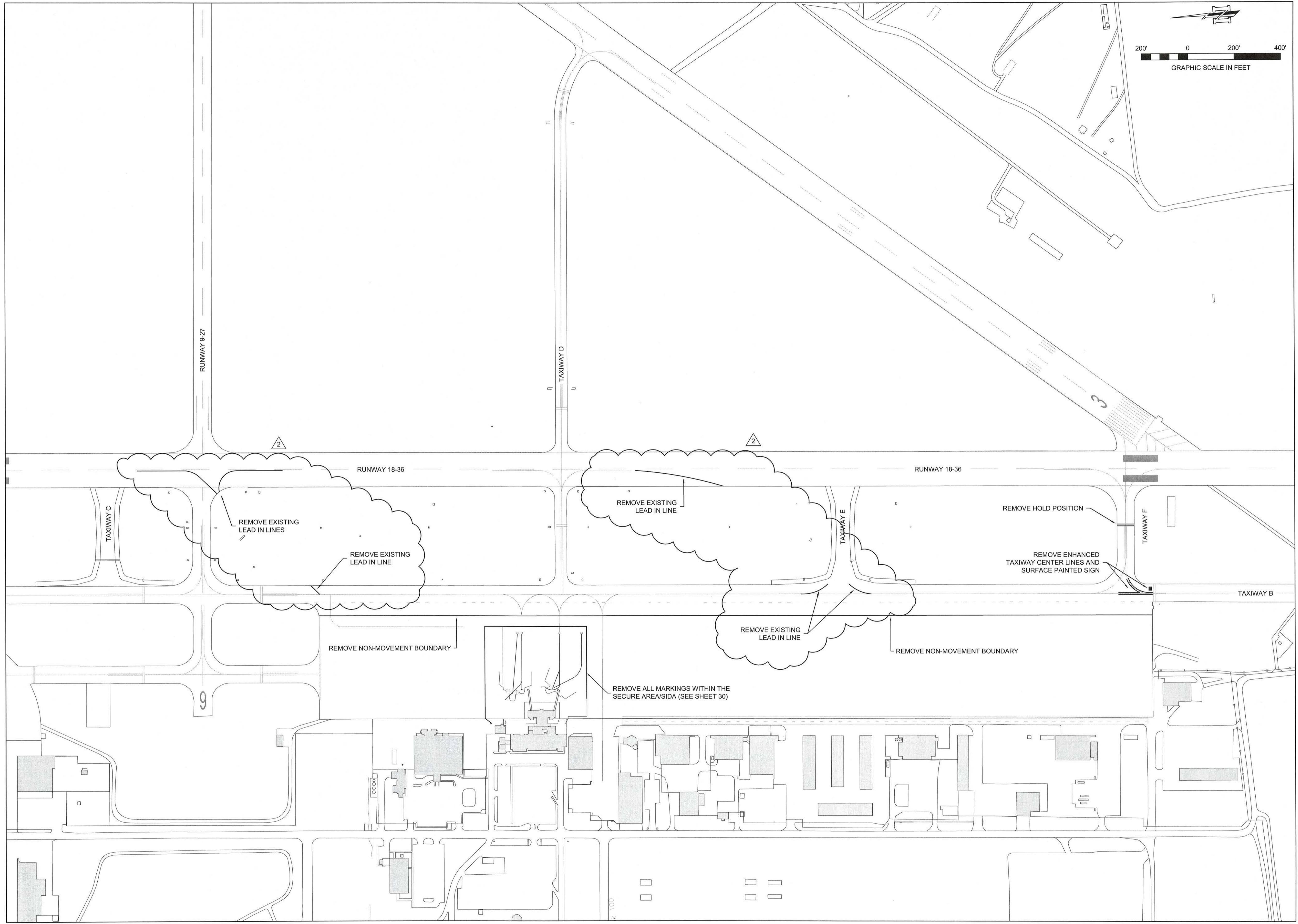
## GENERAL NOTES AND SUMMARY OF QUANTITIES

## SAN ANGELO REGIONAL AIRPORT TAXIWAY RECONFIGURATION PROJECT SAN ANGELO, TEXAS

DRAWN BY:	CBS
DESIGNED BY:	JWD
LATEST REVISION:	07/24/2017
KSA JOB NO.:	KSA
SAN 059	



SEAL: TBPE Firm Registration No. F-1356  
SHEET NO.



7/24/17					
APPENDIX 2					
MARK			REVISION		DATE
<small>         KSA-SERVER\PROJECTS\SAN ANGELO\07 CAD\02          PROJECT\02 RECORD DRAWINGS\APPENDIX\MARKING          REMOVAL.DWG   17/07/2017 - 4:03 PM          DRAWING PATHNAME   LAYOUT   PLOT DATE - TIME       </small>					

**MARKING DEMO PLAN**  
**PAGE 1**

**SAN ANGELO REGIONAL  
AIRPORT TAXIWAY  
RECONFIGURATION PROJECT  
SAN ANGELO, TEXAS**

DRAWN BY:	CBS
DESIGNED BY:	JWD
LATEST REVISION:	07/24/2017
KSA JOB NO.:	SAN 059
PROJECT NAME:	

**KSA**  
 58 Burck Street, San Angelo, Texas 76901  
 T. 325-354-1339  
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STATE OF TEXAS  
 DAVID A. ALEXANDER  
 96658  
 LICENSED PROFESSIONAL ENGINEER

SEAL:  
 TBPE Firm Registration No. F-1356  
 SHEET NO.

**Airport:** San Angelo Regional Airport – Mathis Field

**Project:** Taxiway Reconfiguration Project

**Date:** July 19<sup>th</sup>, 2017

## Answers to Questions Presented at the July 19<sup>th</sup> Pre-Bid Meeting

1. Q - There is no Embankment bid item, but I assume that the taxiways being removed will be backfilled with the excavation from the new taxiways. How is this work paid for?  
**A – See Item 2.02 added in updated bid form.**
2. Q – Where can we stockpile the excavation from Taxiways Charlie & Echo (Ph. 1, Seq. 1) to be used to backfill the Old Taxiway Charlie (Ph. 1, Seq. 2)?  
**A – Excavation can be stockpiled in the project staging areas.**
3. Q – It appears that there might be some milled asphalt (RAP) left over after the perimeter road gets plated. What do you want to do with any left-over RAP?  
**A – All milled asphalt shall be placed on the perimeter road.**
4. Q - What work, in addition to milling, hauling and spreading, will the contractor be expected to do in association with installing the milled asphalt on the perimeter road (i.e. clearing, blading off grass, grading & compacting RAP etc.)?  
**A – Contractor shall mill, haul, spread, and compact asphalt millings on the existing perimeter road.**
5. Q - Is there any required phasing within Phase 3, to complete the permanent markings for the Apron?  
**A – Yes. All taxiways shall remain passable to aircraft and 1 terminal gate shall remain open all times during Phase 3.**
6. Q - Note on the proposed pavement section says to replace 4" HMAC, 12" base and 8" lime treated subgrade with 14" of PCC. I assume that this should read 24" of PCC?  
**A – Delete note and replace with the following: "Replace 4" HMAC, 12" base and 8" lime treated subgrade with 24" PCC Pavement".**
7. The quantity for Bid Item AA1.01 appears to include the 4" of asphalt being removed in Bid Item AA1.02.  
**A - See Item AA1.01 in updated bid form for revised quantity.**
8. Can the Engineer provide details and specifications for the Artificial Turf and the turf base course?  
**A – Specifications for Artificial Turf is located in AC 150/5370-15 provided in the back of the Technical Specifications Book. Turf is to be applied directly on the existing PCC pavement of the apron using adhesive in accordance with the manufacturer's recommendations.**
9. The 24" PCC pavement in the Add Alternate is listed as Specification No. P-501, but there is no P-501 provided on the specifications. Should this actually be under Item P-610?  
**A – Yes. Delete Spec No. "P-501" for Bid Item AA1.03 and replace with "P-610".**

10. A plan note on Sheet 18 calls out a concrete trench drain with a 34" grate, but is not mentioned or detailed anywhere else. What is this?  
A – Delete note reading "Concrete Trench Drain (34" Grate)" from Sheet 18. Replace with note reading "Concrete Culvert (See Sheet 19)"
11. Where does the Sodding go?  
A – Sod shall be placed per Spec T-904 starting at the edge of pavement and extending out 5' from pavement. All disturbed area beyond this shall be seeded per Spec T-901.
12. Can Taxiway Charlie and Echo be removed at the same time?  
A – Yes. Additional flagmen will be required as directed by the engineer and owner.
13. Is there a bid item for temporary markings?  
A – No, both application and removal of temporary markings shall be subsidiary to Bid Item 1.02 – Barricades and Markings for Pavement Closures.
14. Who is doing the testing?  
A – Rodriguez Engineering Laboratories will be doing acceptance testing for the Owner. Contractor is responsible for providing their own Quality Control testing laboratory.
15. Are any test strips required?  
A – Yes. Area used for the test strips can be included as part of the placement for the Taxiway.
16. P-501 or P-610?  
A – All Portland cement concrete shall be item P-610.
17. Is blading P-403 acceptable?  
A – Blade or lay-down machine placement of P-403 shall be acceptable. All acceptance testing (air voids, density, thickness) will be done regardless of contractor's choice of placement method, however. All P-401 material shall be placed using a lay-down machine.
18. What is the intent of the Phasing Plan and Runway Closures?  
A – The intent of the Phasing Plan is to close Runway 18 for a maximum of 30 days. There will not be a penalty to the contractor but the intent is to minimize the impact on air carriers as much as possible.
19. What size base cans are required for the signs? Spec method of measurement S-E125-4.1b calls for 867d; the detail on drawing E08 shows 867b.  
A - Base can for signs shall be L-867B.
20. Since this project is AIP funded I assume an approved equal to ALCO and AGM will be acceptable for the lights and signs.  
A – Curved signs and lights can be of any manufacturers listed on FAA approved equipment list. However, if the light color is not uniform with the existing airfield lighting (at the Owners discretion) then the lights shall be replaced at the contractor's expense.

21. Are anti-rotation fins required on L867b cans for edge lights? Drawing E10 does not show them, but spec S-E125-2.6c note 2 calls for them.  
**A - No anti-rotation fin for L-867 cans.**
22. Are the taxiway edge light cans in bid item 3.12 one piece or telescoping? Drawing E10 shows one piece, spec S-E125-2.6c note 3 references both types.  
**A - Taxiway edge lights located on shoulder of taxiway are one piece L-867B and taxiway lights located in existing apron shall be L-868B telescoping two piece can.**
23. The description for Bid item 3.14 is for new signs with sign legends. Do the existing signs on E11 require new legend panels? If so, will those be owner furnished?  
**A - The existing signs that are to be removed as indicated in the sign schedule.**
24. Are the replacement lamps mentioned in the method of measurement intended to be spares? If so, what quantity are required? Spec S-E125-4.1b  
**A - Provide 100% spare lamp of same lamp wattage and type for each new sign.**
25. Who is to provide and maintain lighted X's?  
**A – Contractor is responsible for providing and maintaining lighted X's for duration of project.**
26. Sign Pad Sizing: Detail on sheet E08 calls for 3' width minimum.  
**A – Sign pads shall be 6' wide. Length shall vary based on the length of the sign.**
27. How is cable, signs, and fixtures from existing signs to be disposed of?  
**A – Contractor shall turn all cable, sign panels, and sign fixtures over to owner. Other materials (such as concrete) shall be disposed of at the contractor's expense.**
28. Sizing of Bid Item 2.11 – Grate Inlet  
**A – Delete “ 30”x30” Inlet” and replace with “ 4’x4’ Grate inlet”**



**Bid Sheet**

Vendor Name \_\_\_\_\_  
AP-02-17 / Taxiway Reconfiguration

<u>Item Number</u>	<u>Description</u>	<u>Total Bid for Each Item</u>
1	Item 1: Mobilization	\$ _____
2	Item 2: Reconfigure Taxiways C and E	\$ _____
3	Item 3: Taxiway & Island Lighting, Misc. Electrical Work	\$ _____
<b>TOTAL BASE BID (ITEMS 1-3)</b>		<b>\$ _____</b>
4	Alternate 1: Apron Edge Repair	\$ _____
<b>TOTAL BASE BID + ALTERNATE 1 (ITEMS 1-4)</b>		<b>\$ _____</b>

Respondent agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" and to fully complete the project within **210 consecutive calendar days** thereafter. Respondent further agrees to pay as liquidated damages the sum of **\$1,000.00** for each consecutive calendar day to complete the work beyond the allotted time or as extended by an approved Change Order.

The respondent hereby proposes to do all work and furnish all necessary superintendence, labor, machinery, equipment, tools, and materials, and whatever else may be necessary to complete all work upon which he bids, as provided by the attached specifications and shown on the plans, and binds himself on acceptance of this proposal to execute a Contract and Bonds according to the accompanying forms, for performing and completing the said work within the time stated, and furnishing all required guarantees, for the following prices to-wit:

Note: Funding availability will be considered in selecting the bid proposal to be awarded.

It is understood the quantities of work to be done at unit prices are approximate and are intended for bidding purposes only. Amounts are to be shown in both words and figures. In case of discrepancy, the amounts shown in words shall govern.

Unit quantities may be adjusted to determine final contract amount. Final Contract amount will be based on availability of funding.



**Base Bid Item 1: Mobilization, Temporary Access and Erosion/Sedimentation Control Measures**

Item	Qty	Unit	Specification	Description (Written & Numeric Price)	Unit Price	Total Price
1.01	1	LS	KSA-100	Mobilization _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
1.02	1	LS	KSA-105	Barricades and Markings for Pavement Closures _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
1.03	1	LS	P-156	Stormwater Pollution Prevention Plan (SWP3) Document _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
1.04	1,500	LF	P-156	Temporary Sediment Control Fence _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
1.05	2	EA	P-156	Rock Construction Exit _____ dollars and _____ cents per each	\$ _____	\$ _____
1.06	1,736	CY	T-905	Topsoiling (Obtained on Site or Removed from Stockpile) _____ dollars and _____ cents per cubic yard	\$ _____	\$ _____
1.07	6	AC	T-901	Seeding _____ dollars and _____ cents per acre	\$ _____	\$ _____
1.08	1,362	SY	T-904	Sodding _____ dollars and _____ cents per square yard	\$ _____	\$ _____

**Subtotal**

**Base Bid Item 1: Mobilization, Temporary Access and Erosion/Sedimentation Control Measures**      \$ \_\_\_\_\_





**Base Bid Item 2: Reconfiguration Taxiways C and E**

Item	Qty	Unit	Specification	Description (Written & Numeric Price)	Unit Price	Total Price
2.01	3,934	CY	P-152	Unclassified Excavation _____ dollars and _____ cents per cubic yard	\$ _____	\$ _____
2.02	3,450	CY	P-152	Unclassified Embankment _____ dollars and _____ cents per cubic yard	\$ _____	\$ _____
2.03	11,800	SY	P-101	Asphaltic Concrete Pavement Removal _____ dollars and _____ cents per square yard	\$ _____	\$ _____
2.04	15,010	SY	P-155	8" Lime Treated Subgrade _____ dollars and _____ cents per square yard	\$ _____	\$ _____
2.05	380	TON	P-155	Hydrated Lime (7%) _____ dollars and _____ cents per ton	\$ _____	\$ _____
2.06	9,322	TON	P-403	11" HMA Base Course _____ dollars and _____ cents per ton	\$ _____	\$ _____
2.07	3,886	TON	P-401	5" HMA Surface Course _____ dollars and _____ cents per ton	\$ _____	\$ _____
2.08	75	CY	P-610	Portland Cement Concrete _____ dollars and _____ cents per cubic yard	\$ _____	\$ _____
2.09	2,825	GAL	P-602	Bituminous Prime Coat _____ dollars and _____ cents per gallon	\$ _____	\$ _____
2.10	1,965	SY	---	Artificial Turf _____ dollars and _____ cents per square yard	\$ _____	\$ _____
2.11	1	EA	D-751	4' X 4' Grate Inlet _____ dollars and _____ cents per each	\$ _____	\$ _____



2.12	32	LF	D-701	24" Class III RCP _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
2.13	204	LF	D-701	18" x 28.5" Class III RCP Arch Pipe _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
2.14	2	EA	D-752	Sloped End Treatment for Arch Pipe _____ dollars and _____ cents per each	\$ _____	\$ _____
2.15	20,780	SF	P-620	Yellow Markings (Reflective) _____ dollars and _____ cents per square foot	\$ _____	\$ _____
2.16	2,355	SF	P-620	Red Markings (Non-Reflective) _____ dollars and _____ cents per square foot	\$ _____	\$ _____
2.17	4	EA	P-620	Surface Painted Signs _____ dollars and _____ cents per each	\$ _____	\$ _____
2.18	14,875	SF	P-620	Black Markings (Non-Reflective) _____ dollars and _____ cents per square foot	\$ _____	\$ _____
2.19	18,235	SF	P-620	Pavement Marking Removal _____ dollars and _____ cents per square foot	\$ _____	\$ _____

**Subtotal**

**Base Bid Item 2: Reconfiguration Taxiways C and E**      \$ \_\_\_\_\_



**Base Bid Item 3: Taxiway and Island Lighting, Other Electrical Improvements**

Item	Qty	Unit	Specification	Description (Written & Numeric Price)	Unit Price	Total Price
3.01	1	LS	-	Mobilization _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
3.02	7,500	LF	L-108-5.1	No. 8 AWG, 5 KV, L-824, Type C Cable, Installed in Conduit _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.03	5,000	LF	L-108-5.2	No. 6 AWG, Solid Bare Counterpoise Wire, Installed in Trench, Including Ground Rods and Ground Connectors _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.04	8,000	LF	L-108-5.3	Remove Existing No. 8 AWG, L-824C in 2" Conduit _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.05	6,000	LF	L-108-5.4	Remove No. 6 AWG, Solid, Bare Counterpoise Wire, Installed in Trench, Including Ground Rods _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.06	5,000	LF	L-110-5.1	Install 2" PVC Schedule 40 Conduit In Trench Including Excavation and Backfill _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.07	1,200	LF	L-110-5.2	Install 2" HDPE SDR 11 Conduit Directional Boring under Pavement _____ dollars and _____ cents per linear foot	\$ _____	\$ _____



3.08	7,000	LF	L-110-5.3	Remove Existing 2" Conduit _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.09	1,200	LF	L-110-5.4	Install 2" Conduit in Concrete Encased Duct Bank _____ dollars and _____ cents per linear foot	\$ _____	\$ _____
3.10	3	EA	L-115-5.1	Install L-867E Electrical Handhole _____ dollars and _____ cents per each	\$ _____	\$ _____
3.11	2	EA	L-115-5.2	Remove Existing Handhole _____ dollars and _____ cents per each	\$ _____	\$ _____
3.12	53	EA	S-E125-5.1	Install Can-Mounted Elevated MITL/MIRL, Transformer, Base Can and Concrete Pad _____ dollars and _____ cents per each	\$ _____	\$ _____
3.13	19	EA	S-E125-5.2	Install In-Pavement Elevated MITL, Transformer, Base Can in Existing PCC Pavement _____ dollars and _____ cents per each	\$ _____	\$ _____
3.14	13	EA	S-E125-5.3	Install Base Mounted Sign L-858, Size 2 with Sign Legends per drawings, all in place _____ dollars and _____ cents per each	\$ _____	\$ _____
3.15	55	EA	S-E125-5.4	Remove Existing Can-Mount Elevated MITL/MIRL including Transformer, Base Can, and Concrete Pad _____ dollars and _____ cents per each	\$ _____	\$ _____
3.16	9	EA	S-E125-5.5	Remove Base Mounted Sign L-858, Size 2 and Concrete Pad _____ dollars and _____ cents per each	\$ _____	\$ _____



3.17	1	LS	S-E890-5.1	Install Airfield Lighting Control and Monitoring System (ALCMS) _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
3.18	1	LS	S-E890-5.2	Remove Existing Airfield Lighting Control and Monitoring System _____ dollars and _____ cents per lump sum	\$ _____	\$ _____
3.19	1	LS	S-E890-5.3	Install a Wireless WIFI Bridge Network System for the ALCMS _____ dollars and _____ cents per lump sum	\$ _____	\$ _____

**Subtotal**

**Base Bid Item 3: Taxiway and Island Lighting, Other Electrical Improvements**      \$ \_\_\_\_\_



**Additive Alternate Item 1: Apron Edge Repair**

Item	Qty	Unit	Specification	Description (Written & Numeric Price)	Unit Price	Total Price
AA1.01	575	CY	P-152	Unclassified Excavation _____ dollars and _____ cents per cubic yard	\$ _____	\$ _____
AA1.02	1,000	SY	P-101	Asphaltic Concrete Pavement Removal _____ dollars and _____ cents per square yard	\$ _____	\$ _____
AA1.03	1,000	SY	P-501	24" PCC Pavement _____ dollars and _____ cents per square yard	\$ _____	\$ _____

**Subtotal**  
**Additive Alternate Item 1: Apron Edge Repair**      \$ \_\_\_\_\_



CITY OF SAN ANGELO  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

*Note: Should there be any differences between the unit price and the extended pricing calculations, the unit price will prevail.*

- Are these prices based on a purchasing cooperative contract? Yes \_\_\_\_\_ No \_\_\_\_\_
  - If yes, name of cooperative: Contract No: (Texas DIR, TXMAS, BuyBoard, etc.)
- Will vendor accept the City credit card (p-card) as a method of payment? Yes \_\_\_\_\_ No \_\_\_\_\_ %Disc \_\_\_\_\_
- Payment Terms/Discounts (if any): \_\_\_\_\_