

**Memorandum #09-76**

**To:** Doug Russell, City Manager  
**From:** Kevin Kuhl, Director of Public Services  
**Subject:** Change Order No.2 for Chan Gurney Airport Apron Project-Phase II  
**Date:** April 30, 2009

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In the fall of 2008, soft sub grade conditions were encountered on the Chan Gurney Apron Phase II reconstruction project. A number of contractual and weather related issues caused the postponement of paving. Change Order Number 2, attached, has been negotiated with the contractor, the FAA, and the State of South Dakota. The size of the Phase II project has been scaled back to ensure the available grant funds adequately cover increased project costs. This is important to the City since 95% of the project is covered by federal grant funding and expenses beyond the cap for the grant would be the sole responsibility of the City. The portion of the apron no longer part of the Phase II with A & R Construction Company is planned to be included in Phase III.

Change Order Number 2 is recommended by KLJ, signed by the contractor and approved by the State/FAA. It is recommended that the change be approved by the City Commission.


**Recommendation: Change order no. 2 is recommended for approval as outlined in Memorandum #09-76 and detailed in the attachments.**

Respectfully submitted,

  
 Kevin Kuhl, PE  
 Department of Public Services

I concur with this recommendation.

I do not concur with this recommendation.

  
 City Manager

Attachment

CHANGE ORDER - SECTION 1

Change Order Number 2  
Date 4/22/2009  
Airport Name Chan Gurney Municipal Airport, Yankton, SD  
Federal Grant No. AIP 3-46-0062-019-2008  
Eng. Proj. No. 1508800

Contractor A & R Construction Company (A&R)  
Contract Date 8/15/2008  
Contract Description Reconstruct Portion of Apron with Concrete Pavement, Construct Concrete Taxiway B1 and Miscellaneous Items

**General Reason for Change - Quantify and explain details in Sections 2 & 3.**

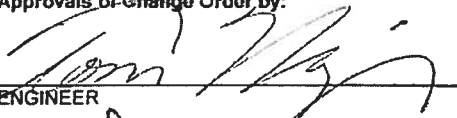


1. Stabilize subgrade by installing soil stabilization fabric.
2. Remobilization.
3. Revise project completion schedule.

Refer to Section 3 for a more detailed explanation.

**This change results in the following adjustment to the contract.**

Total contract amount prior to this change order:	TOTAL	<u>\$ 572,350.60</u>
Change resulting from this change order:	TOTAL	<u>\$ (132,998.80)</u>
Total contract amount including this change order:	TOTAL	<u>\$ 439,351.80</u>

Completion date prior to this change order:	<u>November 24, 2008</u>
Change resulting from this change order:	<u>20 working days</u>
Revised completion date resulting from this change order:	<u>20 working days</u>

Approvals of Change Order by:	Date Signed
 ENGINEER	<u>4/21/09</u>
 CONTRACTOR	<u>4-23-09</u>
<u>CITY OF YANKTON</u>  SDDOT OFFICE OF AERONAUTICS	<u>4/29/09</u>

**CHANGE ORDER - SECTION 2**  
Summary of Changes

Change Order No. 2

Federal Grant No. AIP 3-46-0062-019-2008

ITEM NO.	SPEC. NO.	DESCRIPTION OF ITEM	QUANTITIES			UNIT	UNIT PRICE	REVISED COST	CHANGED COST
			PLANNED	REVISED	CHANGE				
<b>SCHEDULE 1 - CIVIL CONSTRUCTION</b>									
<b>DIVISION 1, BASE BID - Reconstruct Portion of Apron Area (Phase 1)</b>									
1	P-152	Unclassified Excavation	1,240	2,480	1,240	C.Y.	7.90	\$ 19,592.00	\$ 9,796.00
2	P-152	Water	22			M Gal	12.00	0.00	0.00
3	P-230	Geotextile Fabric	2,029	4,224	2,195	S.Y.	4.00	16,896.00	8,780.00
4	P-501	8-Inch PCC Pavement (Non-Reinforced unless shown)	2,029	2,112	83	S.Y.	41.00	86,592.00	3,403.00
5	P-605	Joint Sealing - 8-Inch PCC Pavement (New)	2,758	2,868	110	L.F.	3.00	8,604.00	330.00
6	P-620	Runway and Taxiway Painting	328			S.F.	5.00	0.00	0.00
7	P-620	Obliterate Pavement Markings	66			S.F.	5.00	0.00	0.00
8	SP-Gen.	Field Office/Laboratory	1			L.S.	5,000.00	0.00	0.00
9	SP-Gen.	Airside Traffic Control	1			L.S.	30,000.00	0.00	0.00
10	SP-Gen.	Mobilization	1			L.S.	15,000.00	0.00	0.00
<b>TOTAL SCHEDULE 1 - DIVISION 1 - BASE BID</b>								<b>\$ 131,684.00</b>	<b>\$ 22,309.00</b>
<b>SCHEDULE 1 - CIVIL CONSTRUCTION</b>									
<b>DIVISION 1, ALTERNATE B - Virgin Aggregate Base Course (Phase 1)</b>									
1	P-208	Crushed Aggregate Base Course	451	938	487	C.Y.	40.00	\$ 37,520.00	\$ 19,480.00
2	SP-P-405	Remove & Dispose of Bituminous Pavement	139			S.Y.	5.00	0.00	0.00
3	SP-P-505	Remove & Dispose of Concrete Pavement	1,974			S.Y.	6.00	0.00	0.00
<b>TOTAL SCHEDULE 1 - DIVISION 1 - ALTERNATE B</b>								<b>\$ 37,520.00</b>	<b>\$ 19,480.00</b>
<b>SCHEDULE 1 - CIVIL CONSTRUCTION</b>									
<b>DIVISION 2, BASE BID - Reconstruct Portion of Apron Area (Phase 2)</b>									
1	P-152	Unclassified Excavation	1,732	0	-1,732	C.Y.	10.00	\$ -	\$ (17,320.00)
2	P-152	Water	30	0	-30	M Gal	15.00	0.00	(450.00)
3	P-230	Geotextile Fabric	2,834	0	-2,834	S.Y.	4.00	0.00	(11,336.00)
4	P-501	8-Inch PCC Pavement (Non-Reinforced unless shown)	2,834	0	-2,834	S.Y.	41.00	0.00	(116,194.00)
5	P-605	Joint Sealing - 8-Inch PCC Pavement (New)	4,190	0	-4,190	L.F.	3.00	0.00	(12,570.00)
6	P-620	Runway and Taxiway Painting	394	0	-394	S.F.	5.00	0.00	(1,970.00)
7	T-901	Seeding	0.1	0.00	-0.10	Acre	2,000.00	0.00	(200.00)
8	T-908	Mulching (Fiber)	484	0	-484	S.Y.	5.00	0.00	(2,420.00)
<b>TOTAL SCHEDULE 1 - DIVISION 2 - BASE BID</b>								<b>\$ -</b>	<b>\$ (162,460.00)</b>
<b>SCHEDULE 1 - CIVIL CONSTRUCTION</b>									
<b>DIVISION 2, ALTERNATE B - Virgin Aggregate Base Course</b>									
1	P-208	Crushed Aggregate Base Course	630	0	-630	C.Y.	41.00	\$ -	\$ (25,830.00)
2	SP-P-405	Remove & Dispose of Bituminous Pavement	1,189	0	-1,189	S.Y.	6.00	0.00	(7,134.00)
3	SP-P-505	Remove & Dispose of Concrete Pavement	1,555	0	-1,555	S.Y.	5.00	0.00	(7,775.00)
<b>TOTAL SCHEDULE 1 - DIVISION 2 - ALTERNATE B</b>								<b>\$ -</b>	<b>\$ (40,739.00)</b>
<b>SCHEDULE 1 - CIVIL CONSTRUCTION</b>									
<b>DIVISION 3, BASE BID - Construct Connecting Taxiway B1</b>									
1	P-152	Unclassified Excavation	1,982			C.Y.	10.00	\$ -	\$ -
2	P-152	Water	26			M Gal	23.00	0.00	0.00
3	P-208	Crushed Aggregate Base Course	282			C.Y.	41.00	0.00	0.00
4	P-230	Geotextile Fabric	1,345			S.Y.	5.00	0.00	0.00
5	P-501	8-Inch PCC Pavement (Non-Reinforced unless shown)	1,266			S.Y.	41.00	0.00	0.00
6	P-605	Joint Sealing - 8-Inch PCC Pavement (New)	2,141			L.F.	3.00	0.00	0.00
7	P-620	Runway and Taxiway Painting	1,201			S.F.	5.00	0.00	0.00
8	D-701	13-Inch x 22-Inch Arch Reinforced Concrete Pipe, Cl. 3	80			L.F.	45.00	0.00	0.00
9	D-701	13-Inch x 22-Inch Arch RC End Section	2			Each	1,000.00	0.00	0.00
10	T-901	Seeding	1			Acre	5,766.00	0.00	0.00
11	T-905	Topsoling (On-Site)	715			C.Y.	5.00	0.00	0.00
12	T-908	Mulching (Fiber)	4,840			S.Y.	2.00	0.00	0.00
13	SP-T-910	Erosion Control Fiber Mat	71			S.Y.	20.00	0.00	0.00
14	SP-T-912	Wattles (As Needed)	125			L.F.	67.00	0.00	0.00
15	SP-Gen.	Tiedowns in Turf Area	6			Each	698.00	0.00	0.00
<b>TOTAL SCHEDULE 1 - DIVISION 3 - BASE BID</b>								<b>\$ -</b>	<b>\$ -</b>

**CHANGE ORDER - SECTION 2**  
**Summary of Changes**

Change Order No. 2

Federal Grant No. AIP 3-45-0062-010-2008

ITEM NO.	SPEC. NO.	DESCRIPTION OF ITEM	QUANTITIES			UNIT	UNIT PRICE	REVISED COST	CHANGED COST
			PLANNED	REVISED	CHANGE				
<b>SCHEDULE 2 - ELECTRICAL CONSTRUCTION</b>									
<b>DIVISION 1, BASE BID - Electrical Lighting</b>									
1	L-108	Cable Trenching/Plowing	440			L.F.	3.10	\$ -	\$ -
2	L-108	#8, 5KV, L-824, Type C Cable	435			L.F.	5.00	0.00	0.00
3	L-108	#4 AWG Cu, Type USE	2,200			L.F.	2.40	0.00	0.00
4	L-108	#8 AWG Cu Ground	286			L.F.	3.35	0.00	0.00
5	L-110	1x3x3", Sch. 80 PVC, Electrical Duct (Sand Encased)	90			L.F.	25.00	0.00	0.00
6	L-110	2", Sch. 40 PVC, Electrical Conduit (includes Trenching)	220			L.F.	10.00	0.00	0.00
7	L-999	L-867B Base Can	2			Each	800.00	0.00	0.00
8	L-999	Junction Box	1			Each	1,000.00	0.00	0.00
9	L-999	Retroreflective Marker	10			Each	710.00	0.00	0.00
10	L-999	Airport Lighted Sign, Size 2	3			Each	3,500.00	0.00	0.00
<b>TOTAL SCHEDULE 2 - DIVISION 1 - BASE BID</b>								\$ -	\$ -
<b>CHANGE ORDER #2 - DIVISION 1</b>									
1	C.O. #2	Soil Stabilization Fabric	0	2,112	2,112	S.Y.	6.35	\$ 13,411.20	\$ 13,411.20
2	C.O. #2	Remobilization	0	1	1	L.S.	15,000.00	\$ 15,000.00	\$ 15,000.00
<b>TOTAL CHANGE ORDER 2 - DIVISION 1</b>								\$ 28,411.20	\$ 28,411.20

<b>TOTAL CHANGE</b>	<b>-\$132,998.80</b>
<b>NON-AIP CHANGE</b>	<b>\$0.00</b>
<b>AIP CHANGE</b>	<b>-\$132,998.80</b>

CHANGE ORDER - SECTION 3

Change Order No. 2  
Federal Grant No. AIP 3-46-0062-019-2008

a. Change Order Item No.: 1 Description: Stabilize subgrade by installing soil stabilization fabric.

**Reason for Change:**

The Contractor proceeded with Phase 1 of the apron reconstruction. After the geotextile fabric and aggregate base were installed, the section was 'proof rolled' and found to have substantial movement under the weight of construction equipment. In order to help stabilize the subgrade, a soil stabilization fabric shall be added to the subgrade. The soil stabilization fabric shall be Mirafi HP 570, Woven Geotextile for Soil Stabilization and Reinforcement Applications.

The subgrade shall be excavated down to the level as shown in the accompanying drawing (as per original plans and specifications). The Contractor shall remove and salvage the existing aggregate base course and blend it with the subgrade that is brought in on top of the Mirafi HP-570. Payment will be made under P-152 Unclassified Excavation. Subgrade and unsalvagable aggregate base shall be removed as Unclassified Excavation and disposed of off-site at the location designated by the Owner as described in SP-P-152-2.2. The bottom twelve inches of subgrade shall be scarified, moisture conditioned, and recompactd as shown in the typical section and as per the original specifications (P-152). The Mirafi HP 570 shall be placed on the subgrade as shown in the attached plans and protected from damage until backfill material can be placed on it. Backfill materials shall be end dumped or pushed onto the soil stabilization fabric a minimum thickness of six (6) inches. No equipment shall be driven on the fabric before backfilling. The fabric shall be overlapped at seams a minimum of one foot or as per manufacturer's recommendation. Any damaged material shall be removed and a new piece installed over the area of damage. The new material shall extend the lap three (3) feet beyond the damaged areas on all sides. Damaged areas in material shall be patched. Material shall be placed and overlapped in the direction that fill is to be placed. The material shall be secured at the "upstream" roll ends only by driving stakes, staples, hooks or nails with washers through the material and into the ground. The method of securing the soil stabilization fabric shall be as per manufacturer's recommendation. The quantity of material to be paid for shall be the number of square yards measured in place of the area covered. No allowance will be made for laps or seams. Payment shall be made at the unit price per square yard of material. This price shall include full compensation for furnishing all labor, equipment, materials, tools and incidentals necessary to place the material as indicated on the attached plans. Twelve inches of subgrade shall be brought in on top of the Mirafi HP-570. The subgrade shall be moisture conditioned and compacted as shown in the typical section and as per the original specifications (P-152). The surface shall then be staked and finish graded. New geotextile fabric shall then be installed as per specification SP-P-230 and as per manufacturer's recommendation. New aggregate base shall be installed on top of the geotextile fabric as described in P-208 and shall meet the requirements of the specifications. Survey costs are included in the price of the bid for the various items of the Contract as stated in the General Special Provision Item 7. Costs for all items are as per original bid prices for each respective unit of work, with the exception of the soil stabilization fabric.

b. Change Order Item No.: 2 Description: Remobilization

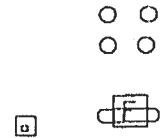
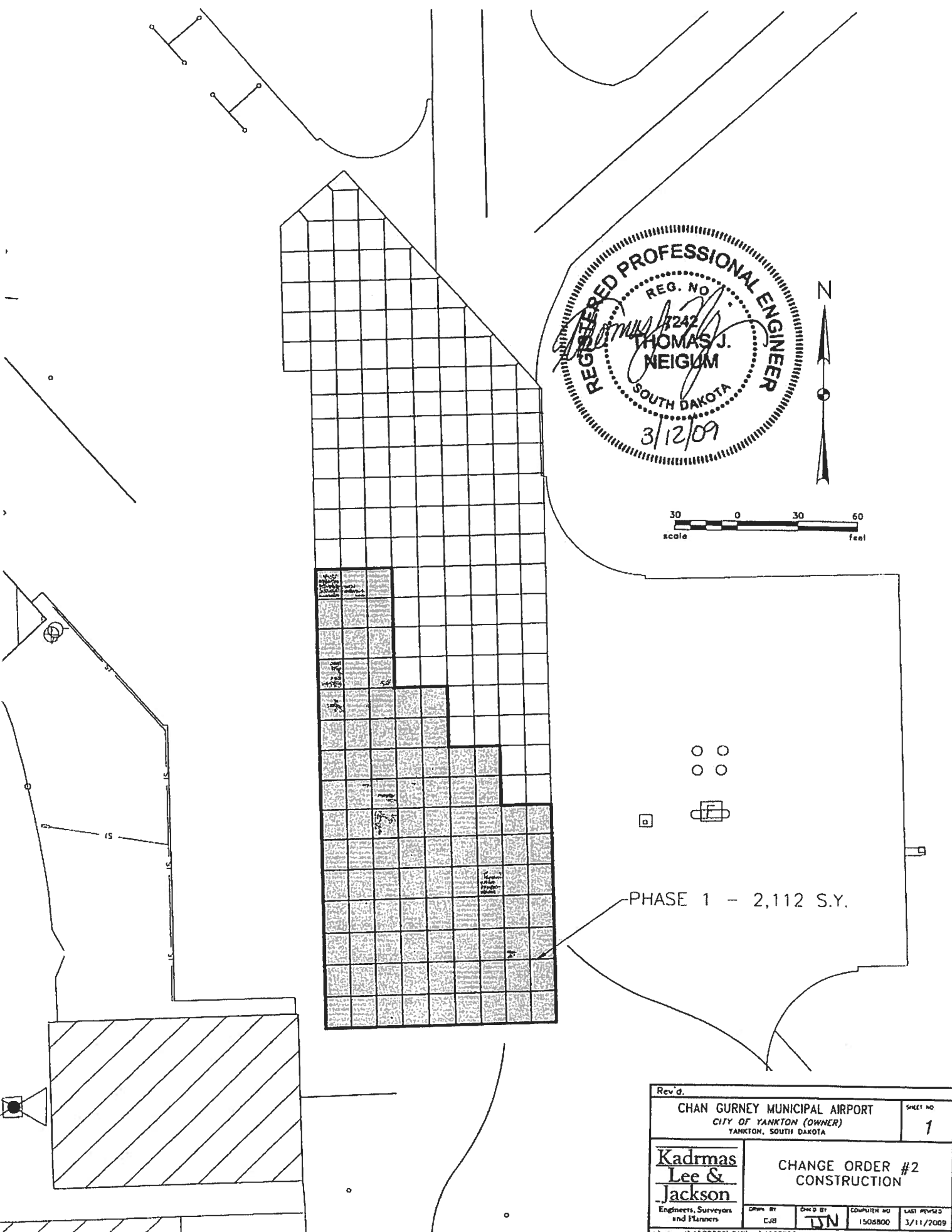
**Reason for Change:**

The cost to remobilize the paver to this project will be paid for at \$15,000.00.

c. Change Order Item No.: 3 Description: Revise project completion schedule

**Reason for Change:**

The Contractor requested 20 working days to complete Phase 1 of the apron. Phase 2 will be removed from the project. Work shall resume in the spring of 2009 within 20 calendar days after a Notice to Resume Work is issued by the Owner. Working days shall begin to be assessed on the date work actually begins or 20 calendar days after a Notice to Resume Work is issued by the Owner, whichever date is earlier. Final punchlist items are to be completed within 28 calendar days after the date of substantial completion or liquidated damages shall be assessed. The Prerequisites to Final Acceptance are to be completed within 49 calendar days after the date of substantial completion or liquidated damages shall be assessed.



PHASE 1 - 2,112 S.Y.

Rev'd.		CHAN GURNEY MUNICIPAL AIRPORT		SHEET NO
		CITY OF YANKTON (OWNER)		1
		YANKTON, SOUTH DAKOTA		
<b>Kadmas Lee &amp; Jackson</b>		CHANGE ORDER #2 CONSTRUCTION		
Engineers, Surveyors and Planners	Drawn BY EJB	Check BY TJN	COMPUTER NO 1508800	LAST REVISED 3/11/2009
J:\airport\1508800\CAD\wp\1508800.dwg				(quickplot 8.5x11)
Plotted - 3/11/2009 - 4:19pm				© Kadmas, Lee & Jackson 2009