



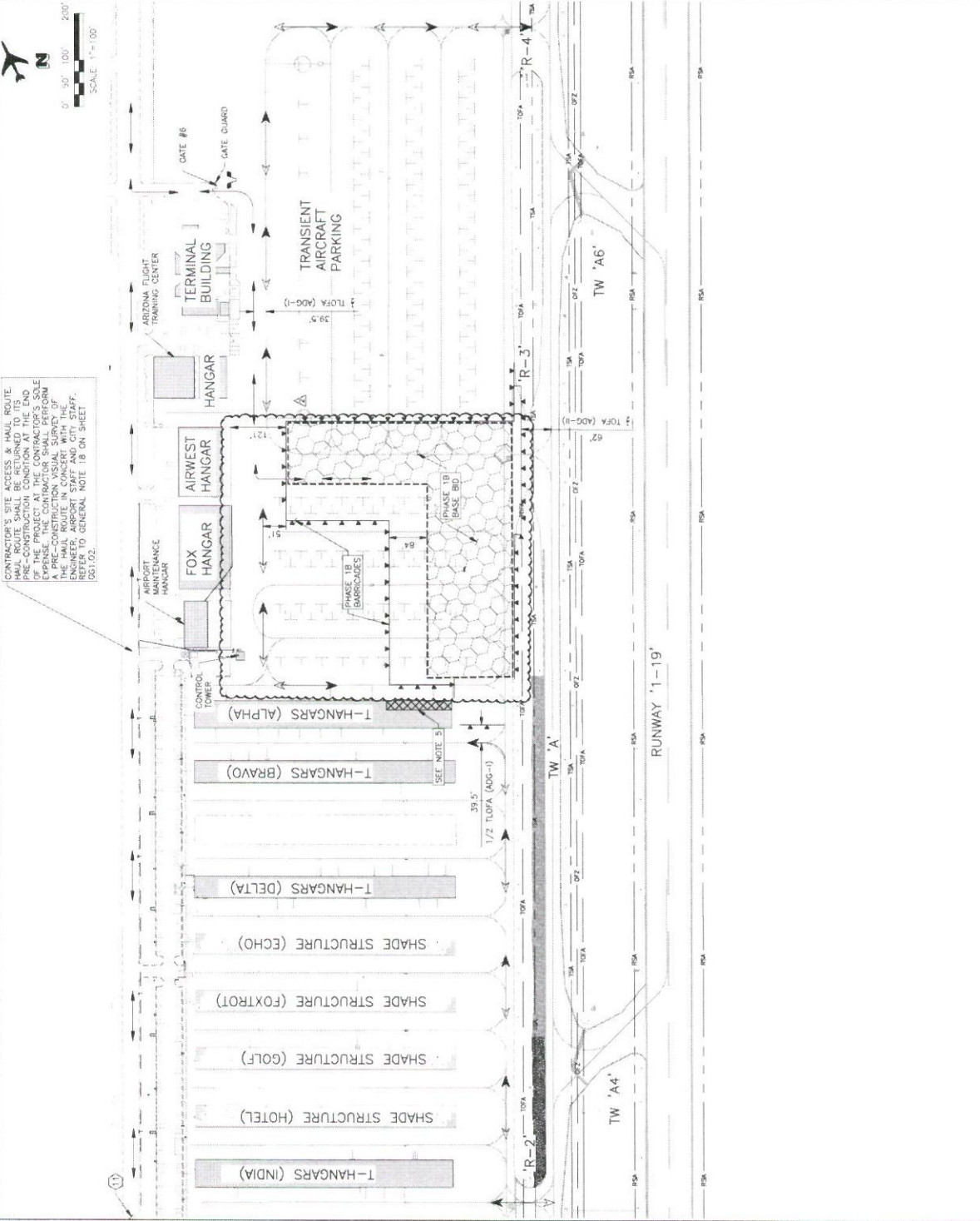
Sponsor: City of Glendale, AZ	Airport: Glendale Municipal Airport	ADOT Grant No. E2S5N01C
Project Description: GEU South Apron Reconstruction – Phase 1		
Contractor: Combs Construction Company	Change Order No. 2	

<u>Description of Change Order:</u> This change order adds additional work area to the scope, as identified in ESI #1 and Change Order #1 and is also the final quantity balancing Change Order.	Original Contract Amount: \$1,267,280.85
	Contract Amount Including Previous Change orders: \$1,267,280.85
	Change Order Amount: \$ 193,567.81
	Total Revised Contract Amount: \$1,460,848.66
	Contract Days: 42 calendar days
	Change Order Days: 10 calendar days
	Revised Contract Days: 52 calendar days

Change Order Justification:

ESI #1 added additional work area to the scope. The additional work is shown on the attached plan sheets and will be paid for using existing bid line items/unit prices. This final balancing change order details both the changes associated with ESI #1 as well as overall quantity over and underruns. Refer to the attached spreadsheet detailing the bid quantities and final construction quantities.

LINE No.	ITEM No.	DESCRIPTION	APPROX. QTY.	UNIT	UNIT PRICE	BID AMOUNT	FINAL QTY.	FINAL \$\$ AMOUNT	% OVER/UNDER
1	C-100-14.1	Contractor Quality Control Program (CQCP) (Base Bid)	1	LS	\$ 50,000.00	\$ 50,000.00	1.00	\$50,000.00	0%
2	C-102-5.1	Temporary Air & Water Pollution, Soil Erosion, & Siltation Control (Base Bid)	1	LS	\$ 10,000.00	\$ 10,000.00	1.00	\$10,000.00	0%
3	C-105-6.1	Mobilization (5% Max) (Base Bid)	1	LS	\$ 60,000.00	\$ 60,000.00	1.00	\$60,000.00	0%
4	GTP-10.01.1	Location of Underground Utilities (Base Bid)	1	AL	\$ 200.00	\$ 200.00	1.00	\$200.00	0%
5	GTP-20.05.1	Airfield Safety and Security (Base Bid)	1	LS	\$ 60,000.00	\$ 60,000.00	1.00	\$60,000.00	0%
6	GTP-30.01.1	Remove Aircraft Tie-Down Assembly (Base Bid)	46	EA	\$ 85.00	\$ 3,910.00	46.00	\$3,910.00	0%
7	GTP-30.02.1	Fill Aircraft Tie-Down Assembly (Base Bid)	17	EA	\$ 125.00	\$ 2,125.00	17.00	\$2,125.00	0%
8	GTP-40.01.1	Aircraft Tie-Down Anchor (Base Bid)	36	EA	\$ 475.00	\$ 17,100.00	36.00	\$17,100.00	0%
9	GTP-40.02.1	Shoulder Stabilization (2-inch Depth) (Base Bid)	3918	SY	\$ 3.20	\$ 12,537.60	3918.00	\$12,537.60	0%
10	GTP-40.03.1	Storm Drain Pipe Repair	1	AL	\$ 7,500.00	\$ 7,500.00	1.00	\$7,500.00	0%
11	P-101-5.1	Sawcut Asphalt Concrete Pavement (2.5" ± Depth) (Base Bid)	1842	LF	\$ 0.65	\$ 1,197.30	2451.00	\$1,593.15	33%
12	P-101-5.4	Mill & Remove Asphalt Concrete Pavement (2.5" ± Depth) (Base Bid)	13418	SY	\$ 2.00	\$ 26,836.00	17641.00	\$35,282.00	31%
13	P-101-5.7	Obliterate Pavement Markings (Base Bid)	1867	SF	\$ 2.00	\$ 3,734.00	336.50	\$673.00	-82%
14	P-151-4.1	Clearing and Grubbing (Base Bid)	1	AC	\$ 8,000.00	\$ 8,000.00	1.00	\$8,000.00	0%
15	P-152-4.1	Unclassified Excavation (Base Bid)	1	LS	\$ 280,000.00	\$ 280,000.00	1.00	\$280,000.00	0%
16	P-152-4.4	Subgrade Preparation (12" Depth) (Base Bid)	13572	SY	\$ 2.70	\$ 36,644.40	18017.00	\$48,645.90	33%
17	P-209-5.1	Aggregate Base Course (6" Depth) (Base Bid)	13572	SY	\$ 14.00	\$ 190,008.00	18017.00	\$252,238.00	33%
18	P-401-8.1	Bituminous Surface Course (FAA 3/4", 4" Thickness) (Base Bid)	13572	SY	\$ 26.00	\$ 352,872.00	18017.00	\$468,442.00	33%
19	P-401-8.4	Key-in (2' overlap of existing base course) (Base Bid)	1103	LF	\$ 9.00	\$ 9,927.00	1324.00	\$11,916.00	20%
20	P-603-5.1	Emulsified Asphalt Tack Coat for Shoulder & Infield Stabilization (Base Bid)	3,918	GAL	\$ 0.70	\$ 2,742.60	2004.30	\$1,403.01	-49%
21	P-608-8.1	Emulsified Asphalt Seal Coat (Base Bid)	115	SY	\$ 25.00	\$ 2,875.00	34.00	\$850.00	-70%
22	P-620-5.1	Permanent Pavement Markings (Yellow) (Base Bid)	2272	SF	\$ 2.00	\$ 4,544.00	2143.50	\$4,287.00	-6%
23	P-620-5.4	Permanent Pavement Markings (Black) (Base Bid)	144	SF	\$ 1.50	\$ 216.00	0.00	\$0.00	-100%
24	P-620-5.5	Tie-Down Designator Marking (Base Bid)	12	EA	\$ 200.00	\$ 2,400.00	12.00	\$2,400.00	0%
25	P-620-5.8	Tie-Down Space Marking (Base Bid)	12	EA	\$ 75.00	\$ 900.00	12.00	\$900.00	0%
26	P-620-5.11	Temporary Pavement Markings (Yellow) (Base Bid)	227	SF	\$ 1.60	\$ 363.20	0.00	\$0.00	-100%
27	L-100-5.1	Remove and Salvage Taxiway Edge Light & Isolation Transformer, Remove Existing Base Can	11	EA	\$ 100.00	\$ 1,100.00	11.00	\$1,100.00	0%
28	L-100-5.2	Remove and Salvage Taxiway Edge Light & Isolation Transformer, Existing Base Can to Remain	3	EA	\$ 70.00	\$ 210.00	1.00	\$70.00	-67%
29	L-100-5.3	Excavate and Remove Existing Conduit & Conductor	765	LF	\$ 2.50	\$ 1,912.50	720.00	\$1,800.00	-6%
30	L-100-5.5	Remove Existing Conductor, Conduit to Remain	410	LF	\$ 0.75	\$ 307.50	410.00	\$307.50	0%
31	L-100-5.6	Remove and Salvage Existing Lighted Airfield Guidance Sign and Isolation Transformer, Demo Sign Base	4	EA	\$ 350.00	\$ 1,400.00	4.00	\$1,400.00	0%
32	L-100-5.7	Remove and Salvage Existing Unlighted Airfield Guidance Sign and Isolation Transformer, Demo Sign Base	2	EA	\$ 300.00	\$ 600.00	2.00	\$600.00	0%
33	L-100-5.8	Remove and Salvage Existing 30' & 40' Apron Light Poles and Fixtures for Reinstallation, Demo Concrete Foundation to 24" Below Grade	1	EA	\$ 7,000.00	\$ 7,000.00	1.00	\$7,000.00	0%
34	L-100-5.11	Install Salvaged 30' & 40' Apron Light Pole and Fixtures on New Concrete Foundation	1	EA	\$ 25,000.00	\$ 25,000.00	1.00	\$25,000.00	0%
35	L-100-5.12	Temporary Airfield Lighting Cable Jumpers	1	LS	\$ 8,000.00	\$ 8,000.00	1.00	\$8,000.00	0%
36	L-108-5.1	L-824, Type C, 1/C #8 AWG, 5kV Cable	1195	LF	\$ 2.25	\$ 2,688.75	1342.00	\$3,019.50	12%
37	L-108-5.2	L-824, Type C, 2/C #8 AWG, 5kV Cable	275	LF	\$ 4.00	\$ 1,100.00	306.00	\$1,224.00	11%
38	L-108-5.3	3-#6, #6 Ground - Apron Lighting Cable, 3-#10 Apron Dimming Control Cables	280	LF	\$ 9.00	\$ 2,520.00	280.00	\$2,520.00	0%
39	L-110-5.1	Single-way, (1) - 2" Conduit, Slurry Encased	855	LF	\$ 26.00	\$ 22,230.00	950.00	\$24,700.00	11%
40	L-110-5.2	Single-way, (1) - 2" Conduit, Concrete Encased	170	LF	\$ 29.00	\$ 4,930.00	95.00	\$2,755.00	-44%
41	L-125-5.1	Salvaged Size 1, 2-Module, Airfield Guidance Sign on New Concrete Sign Base	2	EA	\$ 2,500.00	\$ 5,000.00	2.00	\$5,000.00	0%
42	L-125-5.2	Salvaged Size 1, 3-Module, Airfield Guidance Sign on New Concrete Sign Base	2	EA	\$ 2,700.00	\$ 5,400.00	2.00	\$5,400.00	0%
43	L-125-5.3	Salvaged Size 2, 2-Module, Unlighted Airfield Guidance Sign on New Concrete Sign Base	2	EA	\$ 1,800.00	\$ 3,600.00	2.00	\$3,600.00	0%
44	L-125-5.4	New Elevated L-861T Quartz Taxiway Edge Light and Isolation Transformer on New L-867 Base Can	17	EA	\$ 1,600.00	\$ 27,200.00	17.00	\$27,200.00	0%
45	L-125-5.5	New Steel Blank Cover and Gasket on Existing L-867 Edge Light Base Can	3	EA	\$ 150.00	\$ 450.00	1.00	\$150.00	-67%
						ORIGINAL BID AMOUNT	FINAL CONTRACT AMOUNT	CHANGE ORDER AMOUNT	
						\$1,267,280.85	\$1,460,848.66	\$193,567.81	



CONTRACTOR'S SITE ACCESS & HAUL ROUTE TO BE DETERMINED BY THE CONTRACTOR AT THE END OF THE PROJECT. THE CONTRACTOR'S SOLE RESPONSIBILITY IS TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GLENDALE AND THE AIRPORT AUTHORITY. THE HAUL ROUTE IN CONCERT WITH THE ENGINEER, AIRPORT STAFF AND CITY STAFF. REFER TO GENERAL NOTE 18 ON SHEET 051.02.

DIBBLE
ENGINEERING DEPARTMENT
5985 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

PHASE 1B NOTES
1. CONSTRUCTION SHALL BE HELD TO AIRPORT TRAFFIC AT ALL TIMES.
2. BARRICADES, FLAGGERS AND TEMPORARY MARKING OPERATIONS MAY BE ADJUSTED AT THE DISCRETION OF THE CITY AND/OR AIRPORT STAFF TO ACCOMMODATE SPECIFIC AIRPORT INCIDENT NEEDS.
3. THE CONSTRUCTION DURATION FOR PHASE 1B BASE BID SHALL BE 28 CALENDAR DAYS.
4. PHASE 1B IS SEQUENTIAL WITH PHASE 1A.
5. T-HANGARS (A-20, A-22, A-23) WILL BE INACCESSIBLE TO AIRCRAFT DURING APRON CONSTRUCTION.
6. FOR PERMANENT MARKING QUANTITIES ON NEW PAVEMENT, SEE DWG CG1-06 FOR QUANTITIES OUTSIDE OF SCOPE OF WORK SHOWN ON PHASING SHEETS.
7. PHASE 1(A AND 1B) TEMPORARY MARKING APPLICATION AND REMOVAL ORDER SHALL BE COMPLETED AT THE BEGINNING OF PHASE 1A. PHASE 1B SHALL BE COMPLETED AT THE END OF PHASE 1A. TEMPORARY MARKINGS IN THE PHASE 1 AREA TO BE COMPLETED AT THE BEGINNING OF PHASE 1A. TEMPORARY MARKINGS IN THE PHASE 3 AREA TO BE COMPLETED AT THE BEGINNING OF PHASE 1B. TEMPORARY OBLITERATION IN THE PHASE 1 AREA TO BE COMPLETED AT THE END OF PHASE 1A. PERMANENT MARKING IN THE PHASE 1 AREA TO BE COMPLETED AT THE END OF PHASE 1B.

PHASE I
SOUTH APRON RECONSTRUCTION
GLENDALE MUNICIPAL AIRPORT
CONSTRUCTION PHASING PLAN-PHASE 1B BASE BID
6801 N GLEN HARBOR BLVD SITE 201, GLENDALE, AZ 85307

NO.	DATE	REVISIONS
6/23	6/23/2023	ISSUED FOR PERMITS
6/23	6/23/2023	ISSUED FOR PERMITS

CMR

AS C.A.C.

JA

CS1 NO. 1

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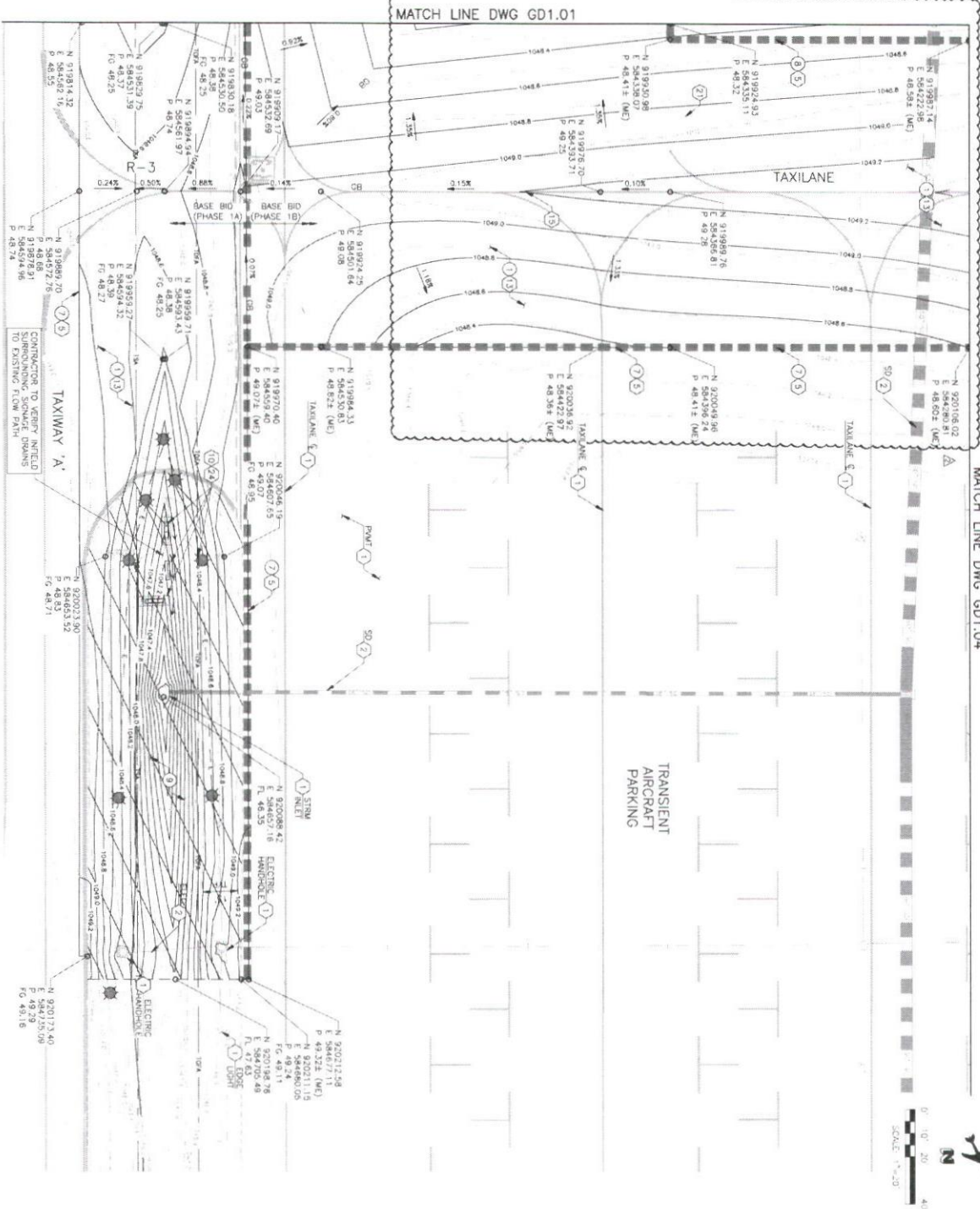
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DIBBLE

CONSTRUCTION NOTES

- 1 PAVEMENT SECTION
- 2 VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION
- 3 MATCH EXISTING PAVEMENT ELEVATIONS
- 4 REFER TO DWG. E31-E32 FOR AIRFIELD ELECTRICAL SITE PLAN
- 5 REFER TO DWG. G02-01 FOR PAVEMENT ELEVATION PLANS
- 6 IF ONLY BASE BID IS AWARDED, A 15'-FOOT TRANSITION GRADING DESIGN WILL BE PROVIDED WITH THE PHASE 1 CONSTRUCTION DETAILS.
- 7 REFER TO DET. 5, DWG. G03-01 FOR TRACK SIGN GRADING DETAIL.

REFERENCE NOTES

- 1 PROJECT IN PLACE
- 2 VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION
- 3 MATCH EXISTING PAVEMENT ELEVATIONS
- 4 REFER TO DWG. E31-E32 FOR AIRFIELD ELECTRICAL SITE PLAN
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LEGEND

EXISTING AC PAVEMENT

EXISTING CONCRETE

PHASE 1A SECTION

PHASE 1B SECTION

PHASE 1C SECTION

PHASE 1D SECTION

PHASE 1E SECTION

PHASE 1F SECTION

PHASE 1G SECTION

PHASE 1H SECTION

PHASE 1I SECTION

PHASE 1J SECTION

PHASE 1K SECTION

PHASE 1L SECTION

PHASE 1M SECTION

PHASE 1N SECTION

PHASE 1O SECTION

PHASE 1P SECTION

PHASE 1Q SECTION

PHASE 1R SECTION

PHASE 1S SECTION

PHASE 1T SECTION

PHASE 1U SECTION

PHASE 1V SECTION

PHASE 1W SECTION

PHASE 1X SECTION

PHASE 1Y SECTION

PHASE 1Z SECTION

KEY MAP

GLENDALE MUNICIPAL AIRPORT SOUTH APRON RECONSTRUCTION PHASE I

6801 N CLEN HARBOR BLVD. STE 201, GLENDALE, AZ 85307

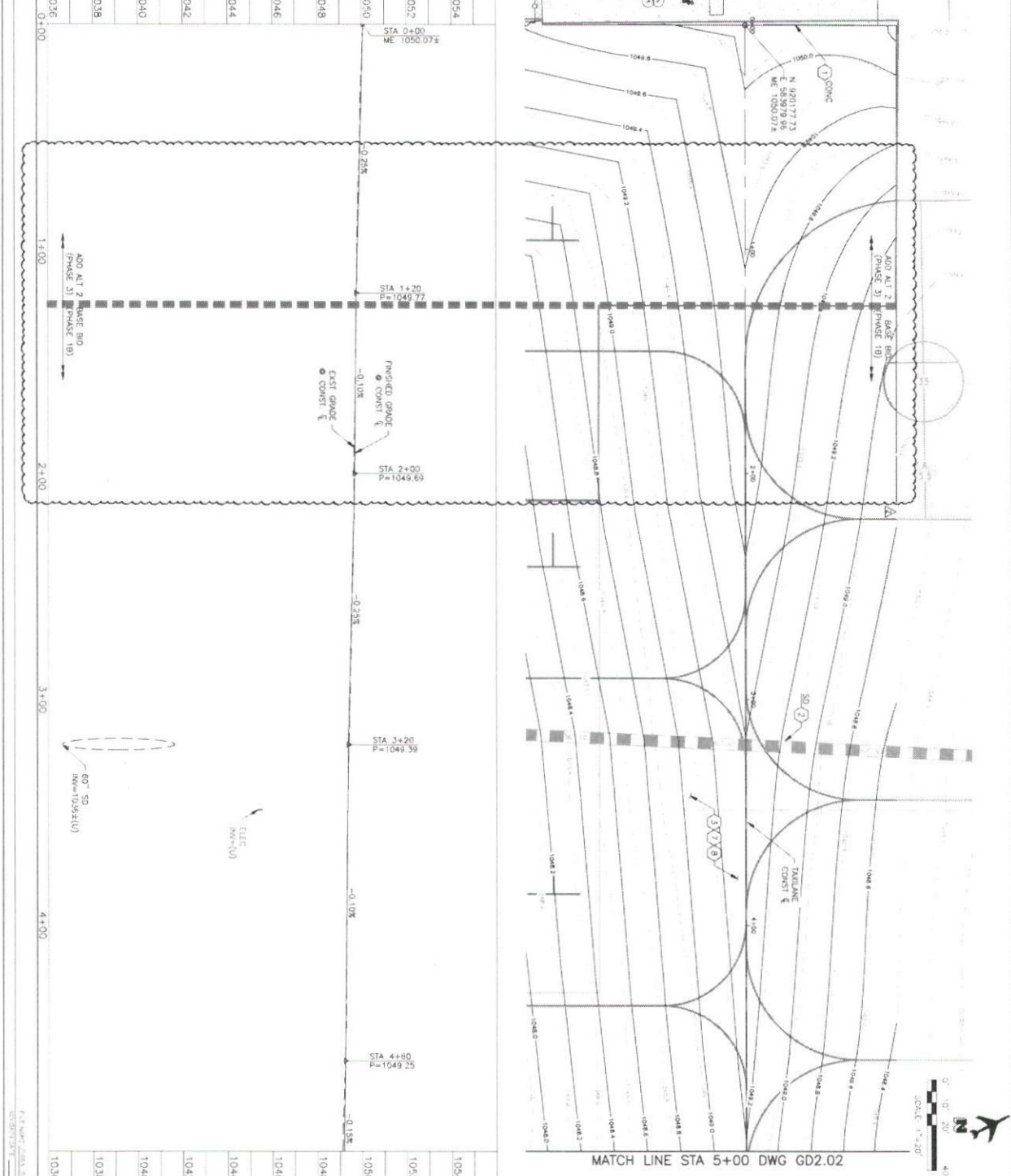
PAVEMENT & GRADING PLAN 2 (BASE BID)

CITY OF GLENDALE

ENGINEERING DEPARTMENT

5850 W. GLENDALE AVE.

GLENDALE, ARIZONA 85301 (623) 930-3630



MATCH LINE STA 5+00 DWG GD2.02

SCALE 1"=20'

DIBBLE

REFERENCE NOTES

- 1) "PROTECT" IN PLACE
- 2) VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION
- 3) REFER TO DWG 001.05 FOR SURVEY CONTROL PLAN
- 4) REFER TO DWG 001.01-001.06 FOR GRADING & DRAINAGE PLAN
- 5) REFER TO DWG 001.01-001.06 FOR PRELIMINARY EROSION PLAN

KEY MAP

GSD PROJECT #230982

PLOT DATE: 08/23/2011 10:22:21 AM

DRAWN BY: J.A. CAC

CHECKED BY: CMR

DATE: 8/23/11

ESI NO. 1

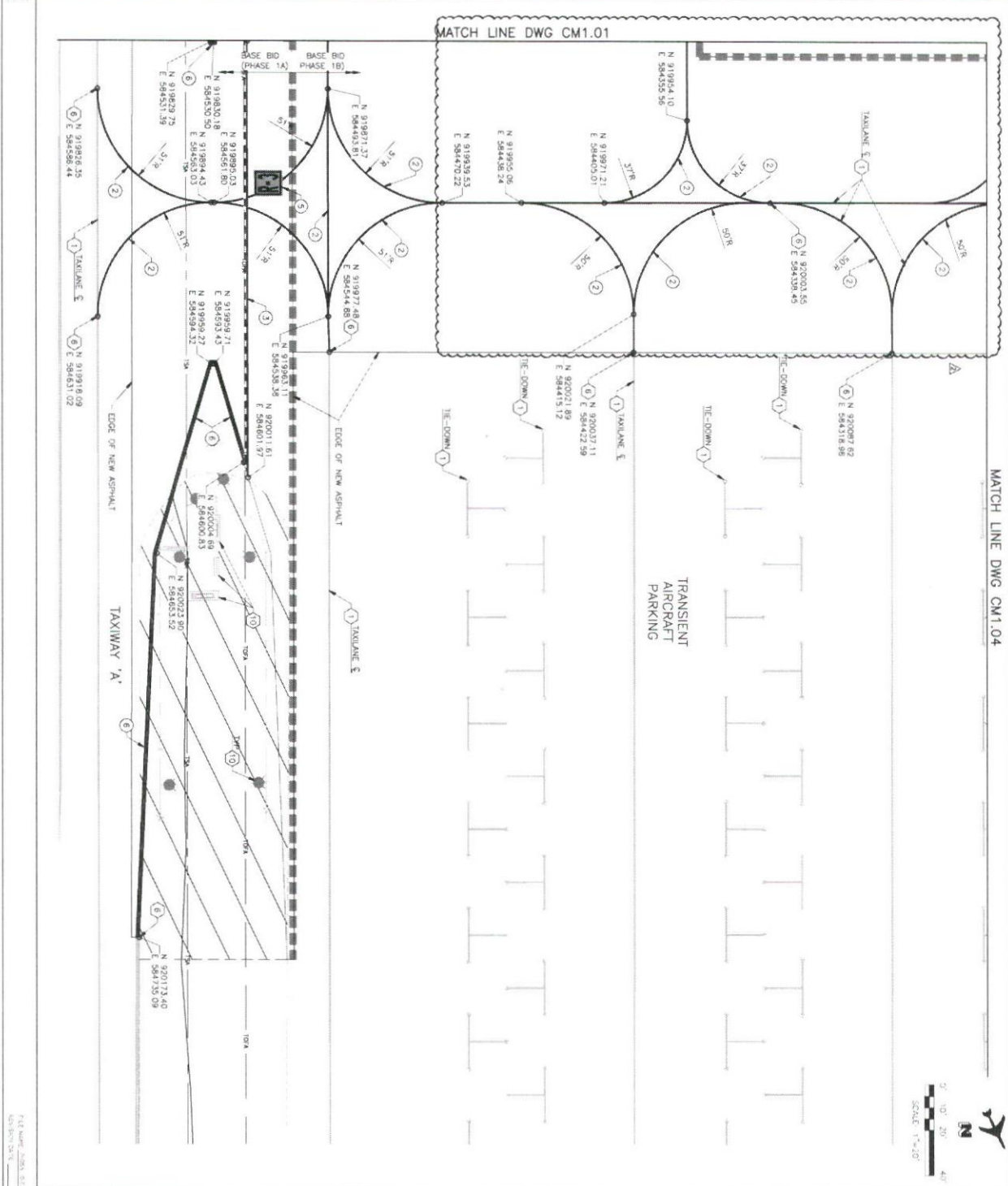
PROJECT: R-3 RAMP ACCESS PLAN & PROFILE

SHEET: 27 OF 61

GLENDALE MUNICIPAL AIRPORT
SOUTH APRON RECONSTRUCTION
PHASE I

6801 N GLEN HARBOR BLVD. STE 201, GLENDALE, AZ 85307
R-3 RAMP ACCESS PLAN & PROFILE

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630



DIBBLE

CONSTRUCTION NOTES

- 1 TAXIWAY CENTERLINE MARKING DET 1 DWG CM2.01 610 SF
- 2 MOVEMENT/STOP MARKING DET 1 DWG CM2.01 148 SF
- 3 RAMP ACCESS RESERVATION MARKING DET 6 DWG CM2.01 1 EA
- 4 CONTINUOUS TAXIWAY MARKING DET 5 DWG CM2.01 311 SF

REFERENCE NOTES

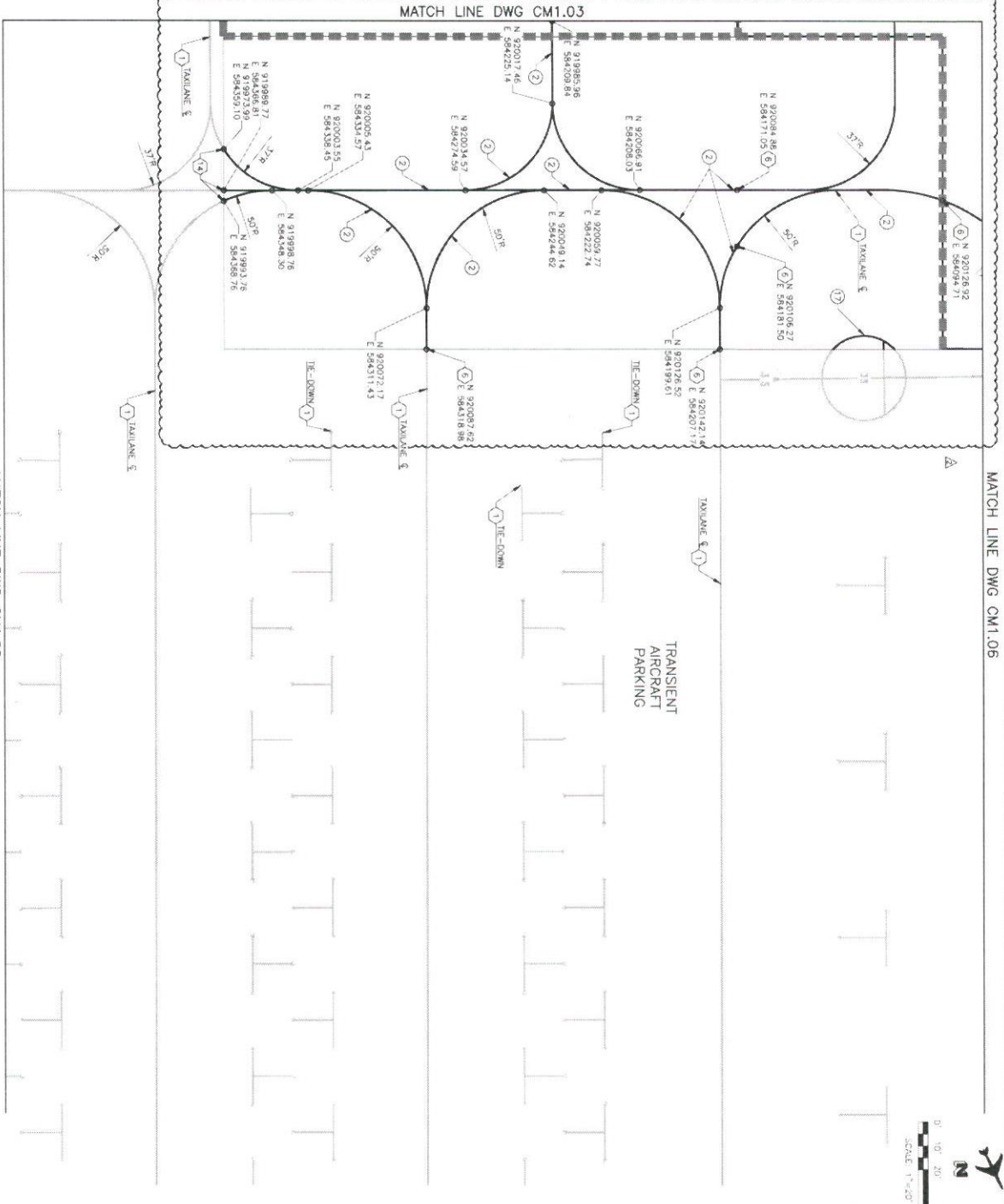
- 1 PROJECT IN PLACE
- 2 MATCH EXISTING PAVEMENT MARKING
- 3 REFER TO DWG E1-1E12 FOR AIRFIELD ELECTRICAL SITE PLAN

KEY MAP

**GLENDALE MUNICIPAL AIRPORT
SOUTH APRON RECONSTRUCTION
PHASE I**

6801 N GLEN HARBOR BLVD. STE 201, GLENDALE, AZ 85307
PAVEMENT MARKING PLAN 2 (BASE BID)

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630



DIBBLE

CONSTRUCTION NOTES

- 225 SF
- TAXILANE CENTERLINE MARKING
- SEE T1 DWG, CALLOUT (PART)
- REFERENCE DWG, CALLOUT FOR CONTROL, RESTRIKE OVER EXISTING.

REFERENCE NOTES

- 1 PROTECT IN PLACE
- 2 MATCH EXISTING PAVEMENT MARKING
- 3 MATCH BASE BID PAVEMENT MARKINGS

KEY MAP

GLENDALE MUNICIPAL AIRPORT SOUTH APRON RECONSTRUCTION PHASE I

6801 N GLEN HARBOR BLVD, STE 201, GLENDALE, AZ 85307
PAVEMENT MARKING PLAN 4 (ADD ALT 1)

CM1.04

SHT. 38 OF 61

DATE: 8/23

ESI NO. 1

DESIGNED BY: JA

CHECKED BY: AS: CAC

DATE: 8/23

PROJECT NO: CMR

CITY OF GLENDALE ENGINEERING DEPARTMENT

5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (623) 930-3630

NO. BUILT DATE