



**City of Phoenix
Office of the City Engineer
Design and Construction Procurement**

**AV06000026 FAA
WEST AIR CARGO RECONSTRUCTION**

ADDENDUM NO. 1

ISSUE DATE: May 17, 2023

Bidders are hereby notified that the Bidding and Contract Documents for the above project, for which Bids are to be received on May 23, 2023, are amended as follows:

Q1.	Are there any restrictions for working in the RPZ?
A1.	No static equipment or materials may be staged or stored in the RPZ. General construction activities are permitted. Equipment higher than 15' shall not be used within the RPZ when the runway is operational. Sheets GC-100 through GC-104 have been updated to indicate the limit of the RPZ.
Q2.	Is the bid date expected to be the same?
A2.	Yes
Q3.	Is there a site available for setting up a batch plant?
A3.	A potential site is available on the west side of 24 th St just north of the Sky Train guideway and south of the Greyhound bus facility as a potential location for a temporary batch plant. The Contractor is responsible for identifying and establishing any needed utility services and permits. Sheet GI-401 has been updated to reflect the location of the potential batch plant graphically. After completion, the site needs to be restored to its original condition. See this addendum for details.
Q4.	Is there a waste site designated?
A4.	All surplus and/or waste material shall be disposed of by Contractor at and off-site location such as a landfill, per Civil Technical Provision SP-23.
Q5.	What is the anticipated NTP date?
A5.	NTP is anticipated between mid-July and mid-August.
Q6.	What is the anticipated Notice to proceed date for construction?
A6.	Council approval of the contract is planned for July 3, 2023. NTP is anticipated between mid-July and mid-August.
Q7.	What is the anticipated Award date and administrative NTP?
QA.	Council approval of the contract is planned for July 3, 2023. NTP is anticipated between mid-July and mid-August.
Q8.	Will there be a Fuel, Asphalt or steel index associated with this project?
A8.	No
Q9.	Is the project Tax Exempt?

A9.	All taxes associated with the contracted services are applicable as defined by local, state and federal regulations.
Q10.	Are there any known contaminated soils within the project limits?
A10.	None were identified through the project development process to date and there are no known historical contaminants within the project limits.
Q11.	What permits will be required from the contractor for this project?
A11.	All permits noted in the project design documents and all applicable permits required by local, state and federal regulations are required.
Q12.	Can the contractor erect a mobile concrete batch plant in the staging area limits shown on plan sheet GI 401?
A12.	No. See response to Item 3 discussion potential location for a temporary batch plant.
Q13.	Are there utilities at the staging area location? Water? Electricity?
A13.	No services in the vicinity have been identified, the contractor shall be responsible for any needed utility services.
Q14.	I did not see an item for the abandonment of the monitoring well. Where will this item be paid for?
A14.	Item 11 is for "ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS". Sheets GI-002, CD-106 and CD-107 have been updated to reflect the updated language of the work item. The Bid Tabulation has been updated to reflect the project bid items.
Q15.	Are there prescribed Liquidated Damages in the Specification with regard to opening sections to traffic?
A15.	Liquidated damages will be assessed in accordance with I.F.B Section 24 on a per phase basis.
Q16.	Can the Contractor staging and storage area shown on GI-401 be increased to accommodate the projects batch plant? Is there another site available airside to accommodate a batching facility?
A16.	No. See response to Item 3 discussion potential location for a temporary batch plant.
Q17.	For the PSHIA – West Cargo Apron project will there be a designated area that the City of Phoenix would like to stockpile Asphalt millings if we were to mill the existing asphalt? In the past the City of Phoenix has wanted/allowed stockpiled AC millings on or around the airport property. We wanted to clarify if the millings is a product that the City still wanted.
A17.	No, all millings must be hauled off site and disposed of properly per Civil Technical Specification P-101.3.5.
Q18.	Supplementary Conditions Aviation MAG FED Boilerplate Section 16 Audit and Records, has audit language that is inconsistent with a Design Bid Build Procurement. Please clarify that the City intended for this language to be include in this contract.
A18.	Yes it will be included.
Q19.	Sheet CD-106 includes an item to "Cut, cap and abandon existing monitoring well", per SP-41.1 payment for this work will be made by the each, however there is not item on the bid form for this scope.
A19.	Item 11 is for "ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS". Sheets GI-002, CD-106 and CD-107 have been updated to reflect the updated language of the work item. The Bid Tabulation has been updated to reflect the project bid items.
Q20.	Please clarify the allowable work hours for this project.
A20.	Added general note 56 to Sheet GI-003 which reads: "NIGHT WORK HOURS ARE BETWEEN 2300-0700 HOURS IN THE SUMMER AND 0000-0800 HOURS IN THE WINTER. WINTER HOURS BEGIN NOVEMBER 5, 2023."
Q21.	Please clarify if a location for batch plant will be provided by the owner. If so, please provide location.
A21.	A potential site is available on the west side of 24 th St just north of the Sky Train guideway and south of the Greyhound bus facility as a potential location for a temporary batch plant. The Contractor is responsible for

	identifying and establishing any needed utility services and permits. Sheet GI-401 has been updated to reflect the location of the potential batch plant graphically.
Q22.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – Should we build 12 working days of lead paint testing/removal for each Phase (1-4) into our schedule, or just Phase 1, which is approximately 15% of allotted time?
A22.	The intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q23.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – Can asphalt be removed that does not contain striping (lead paint) on it simultaneously while lead paint is being tested?
A23.	Yes, however, the intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q24.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – How long will the asbestos testing take for concrete samples?
A24.	Unknown, however, the intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q25.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – If asbestos is detected in concrete how will the removal be accounted for?
A25.	Bidders shall assume no asbestos is detected. The intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q26.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – If lead paint is removed at the same time as the asphalt, combined, is the lead percentage per volume high enough to be deemed a threat?
A26.	Unknown, however, the intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q27.	Sheet 229 of 523 (page SP-28), 35. Work Done By City Forces – Can the paint be tested and results received by City Forces prior to construction NTP?
A27.	The intent is for the City Environmental work for a particular phase to be completed in advance of the contractor initiating that phase.
Q28.	Panel 1258 S. 25 th Place, is a 400A, 277/480V, 3P-4W Panel. Who is the manufacture of this panel?
A28.	The manufacturer of the existing panel is Cutler-Hammer.
Q29.	Special Provisions 1.11 Vehicle Traffic Regulations 1.11.4 has language regarding traffic restrictions and Non Peak hours from 11:00pm to 5:00am. We assume this language is only dealing with Traffic Closures and not a work hour restriction for the construction of the West Cargo Apron. Is this correct?
A29.	Correct, it applies to closures only. We assume no lane or street closures will needed for this project.
Q30.	<p>1. Previously a contractor had an on-site concrete batch plant set up at an Airside location on the south side of E. Buckeye Road near Gate 220 in the formerly named “Snoopy’s nose” area. This location had both a power and water source to batch concrete.</p> <ul style="list-style-type: none"> ○ Is this Airside location available for concrete batching? ○ If the answer is yes, are there any costs for electrical connection(s) or the use of electricity? ○ Are there any costs for construction water connections or the purchasing of the water?
A30.	The area near Gate 220 is not available for this project.
Q31.	<p>If the Airside batch plant site location as described in the above question #1 is not available does the City have another location available to set up and batch concrete?</p> <ul style="list-style-type: none"> ○ If the answer is yes to this question can you provide a detailed location of this site?

	<ul style="list-style-type: none"> ○ Is there an electricity power source at this location? ○ Are there any costs for the electricity / power connection and usage at this location? ○ Is there a source for construction water suitable for batching concrete at this location? ○ Are there any costs for construction water connection(s) or the purchasing of the water? ○ Are there any costs associated with the land usage at this location?
A31.	A potential site is available on the west side of 24 th St just north of the Sky Train guideway and south of the Greyhound bus facility as a potential location for a temporary batch plant. The Contractor is responsible for identifying and establishing any needed utility services and permits. Sheet GI-401 has been updated to reflect the location of the potential batch plant graphically. After completion, the site needs to be restored to its original condition. See this addendum for details.
Q32.	Due to tight schedule constraints, would the City of Phoenix allow contractors to work a six (6) day work week?
A32.	Yes, only work restrictions are as specified in the plans and specs, and the typical work moratoriums at Sky Harbor around holidays and special events. Additional clarifying information is included in this addendum.
Q33.	Due to tight schedule constraints, would the City of Phoenix allow contractors to work a seven (7) day work week?
A33.	Yes, only work restrictions are as specified in the plans and specs, and the typical work moratoriums at Sky Harbor around holidays and special events. Additional clarifying information is included in this addendum.

Technical Specifications

1. **REPLACE:** Delete Pages P-2 through P-4, and replace with attached Pages P-2 through P-4.
2. **REPLACE:** Delete Section 6.e on Page SP-4 of the Civil Technical Special Provisions in its entirety and replace with the following:
 - e. **Availability of Water Trucks and Vacuum Sweepers.**
Vacuum sweepers and highway 4M water trucks shall be available and in operating condition to control dust and remove foreign object debris seven (7) days per week and twenty-four (24) hours per day, including Holidays. A minimum of two (2) vacuum sweepers (one airside, and one landside) and one (1) 4M highway water trucks shall be operating continuously at all times the Contractor or any subcontractor is working on the project.
3. **REPLACE:** Delete Special Provision Item 41 on Pages SP-59 and SP-60 of the Civil Technical Special Provisions in its entirety and replace with the following:

41. ABANDON EXISTING MONITORING WELL This item shall consist of the removal of concrete ring and valve box frame and cover and abandoning the monitoring well using the appropriate method as listed in the Arizona Department of Water Resources Well Abandonment Handbook, current version, and as approved by the City of Phoenix Aviation Department Planning and Environmental Division. The contractor performing this work shall meet the qualification requirements established by Arizona Department of Water Resources as stated in Form 55-38 (<http://www.azwater.gov>) and all other required stipulations.

See monitoring well data sheets as part of this section for additional information about the existing monitoring wells to be abandoned.

Measurement and payment for this item shall be per each; removal of frame, cover and abandonment of monitoring well. This price shall be full compensation for the item complete, including all labor, parts, equipment, permitting, and incidentals.

Payment will be made under:

Item SP-41.1 Abandon Existing Monitoring Well – per each

4. **APPEND:** Append pdfs *Monitoring Well Data Sheet 55-548686.pdf* and *Monitoring Well Data Sheet 55-548687.pdf* to Civil Technical Special Provision Item 41. See corresponding attached pdfs to this addendum.
5. **REPLACE:** Delete Section 24 on Page I.F.B -12 of the Information for Bidders in its entirety and replace with the following:

24. LIQUIDATED DAMAGES AND REMEDIES FOR BREACH

This section supersedes MAG Table 108-1 Liquidated Damages. If the Contractor fails to complete any completion milestones, the substantial completion milestone, or the project acceptance milestone within the Contract Times indicated here or on the plans, the City of Phoenix will sustain substantial damage.

As set forth below, the City will assess the Contractor liquidated damages for delays in the phase construction milestones, substantial completion milestone, and the project acceptance milestones. These damages are not a forfeiture or penalty, but liquidated damages for breach of the Contract. They are the City's estimate of the damages the City would suffer if the Contractor does not complete the project on time. The actual damages to the City, though certain to occur would be impractical and extremely difficult to determine precisely. In addition to any other remedy available to the City at law or in equity, Contractor shall be liable for and shall pay to the City the sum of one thousand seven hundred eighty dollars (\$1,780.00) per day for breach by Contractor of this Section. The parties further agree that the sum above is reasonable and approximates the actual or anticipated loss to the City at the time and making of this Agreement.

Plans:

1. **Sheet GI-002 (Quantity Summary & Sheet Index):** Replace this sheet with attached revised Sheet GI-002.
2. **Sheet GI-003 (General Notes):** Replace this sheet with the attached revised Sheet GI-003.
3. **Sheet GI-401 (Project Layout Plan):** Replace this sheet with the attached revised Sheet GI-401.
4. **Sheet GC-100 (Overall Construction Phasing Plan):** Replace this sheet with the attached revised Sheet GC-100.
5. **Sheet GC-101 (Construction Phasing Plan Phase 1):** Replace this sheet with the attached revised Sheet GC-101.
6. **Sheet GC-102 (Construction Phasing Plan Phase 2):** Replace this sheet with the attached revised Sheet GC-102.
7. **Sheet GC-103 (Construction Phasing Plan Phase 3):** Replace this sheet with the attached revised Sheet GC-103.
8. **Sheet GC-104 (Construction Phasing Plan Phase 4):** Replace this sheet with the attached revised Sheet GC-104.
9. **Sheet CD-106 (Civil Demolition Plan):** Replace this sheet with the attached revised Sheet CD-106.
10. **Sheet CD-107 (Civil Demolition Plan):** Replace this sheet with the attached revised Sheet CD-107.
11. **Sheet CT-502 (Airfield Marking Details):** Replace this sheet with the attached revised Sheet CT-502.

NOTE: Bidders must acknowledge receipt of this Addendum by listing the number and date, where provided, on the PROPOSAL P-1.

END OF ADDENDUM



LINE NO.	ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1		\$ -
2	C-102-4.1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	LS	1		\$ -
3	C-105	MOBILIZATION (4% MAXIMUM)	LS	1		\$ -
4	SP-30.1	CONSTRUCTION SURVEY LAYOUT	LS	1		\$ -
5	SP-31.1	UNFORESEEN UTILITY LOCATING (ALLOWANCE)	ALLOW	1	\$5,000.00	\$ 5,000.00
6	SP-32.1	OVEREXCAVATION OF UNSUITABLE MATERIALS AND BACKFILL WITH SELECT MATERIAL (ALLOWANCE)	ALLOW	1	\$125,000.00	\$ 125,000.00
7	SP-34.1	RPR FIELD OFFICE	LS	1		\$ -
8	SP-33.1	EXISTING UTILITY RELOCATIONS (ALLOWANCE)	ALLOW	1	\$75,000.00	\$ 75,000.00
9	SP-36-8.1	AIRPORT SAFETY AND SECURITY (M-003)	LS	1		\$ -
10	SP-40.1	CONSTRUCT TEMPORARY ASPHALT PAVEMENT TRANSITION	SY	497		\$ -
11	SP-41.1	ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS	EA	2		\$ -
12	P-101-5.1	REMOVE EXISTING ASPHALT PAVEMENT, FULL DEPTH (UP TO 10" DEPTH)	SY	93,572		\$ -
13	P-101-5.7	REMOVE EXISTING CONCRETE PAVEMENT	SY	722		\$ -
14	P-101-5.8	REMOVE EXISTING STORM DRAIN MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	2		\$ -
15	P-101-5.9	REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	1		\$ -
16	P-101-5.10	REMOVE EXISTING FAA COMMUNICATION MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	1		\$ -
17	P-101-5.11	REMOVE EXISTING INLET FRAME, GRATE AND REINFORCED CONCRETE APRON	EA	8		\$ -
18	P-101-5.12	REMOVE EXISTING CONCRETE TIE DOWN	EA	33		\$ -
19	P-151-4.1	CLEARING AND GRUBBING	LS	1		\$ -
20	P-152-4.1	UNCLASSIFIED EXCAVATION	CY	64,158		\$ -
21	P-209-5.2	CRUSHED AGGREGATE BASE COURSE (10" THICK)	SY	87,653		\$ -
22	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6" THICK)	SY	6,424		\$ -
23	P-401-8.1	ASPHALT CONCRETE SURFACE COURSE	TON	1,807		\$ -
24	P-401-8.2	ASPHALT CONCRETE BASE COURSE	TON	1,807		\$ -
25	P-501-8.1	CONCRETE PAVEMENT	SY	87,654		\$ -
26	P-603-5.1	BITUMINOUS TACK COAT	TON	50		\$ -
27	P-604-6.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1/2 INCH WIDE)	LF	79,310		\$ -
28	P-604-6.2	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1 INCH WIDE)	LF	1,868		\$ -
29	P-605-5.1	JOINT SEALING FILLER	LF	5,700		\$ -

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
30	P-620-5.1a	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	SF	12,874		\$ -
31	P-620-5.1b	SURFACE PREPARATION OF NEW PAVEMENT SURFACES	SF	54,132		\$ -
32	P-620-5.3c	REFLECTIVE MEDIA	LS	1		\$ -
33	P-620-5.2a	YELLOW PAVEMENT MARKING	SF	16,128		\$ -
34	P-620-5.2b	WHITE PAVEMENT MARKING	SF	2,051		\$ -
35	P-620-5.2c	BLACK PAVEMENT MARKING	SF	35,479		\$ -
36	P-620-5.2d	RED PAVEMENT MARKING	SF	474		\$ -
37	P-620-5.4d	TEMPORARY MARKINGS	LS	1		\$ -
38	D-751-5.1	CONSTRUCT NEW CONCRETE STORM DRAIN MANHOLE APRON	EA	2		\$ -
39	D-751-5.2	CONSTRUCT NEW CONCRETE HANDHOLE APRON	EA	1		\$ -
40	D-751-5.3	CONSTRUCT NEW FAA COMMUNICATION MANHOLE APRON	EA	1		\$ -
41	D-751-5.4	CONSTRUCT NEW INLET FRAME, GRATE AND APRON	EA	8		\$ -
42	L-100-5.1	REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN	EA	9		\$ -
43	L-100-5.2	EXCAVATE AND REMOVE EXISTING HANDHOLE	EA	3		\$ -
44	L-100-5.3	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR	LF	1,125		\$ -
45	L-100-5.4	EXCAVATE AND REMOVE EXISTING CONDUCTOR. CONDUIT TO REMAIN	LF	127		\$ -
46	L-100-5.5	TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS	LS	1		\$ -
47	L-100-5.6	NEW 25A 2-POLE 480V CIRCUIT BREAKER INSTALLED (APRON LIGHTING CIRCUITS)	EA	4		\$ -
48	L-100-5.7	NEW 100' STEEL POLE WITH 12, 1200 WATT LED FIXTURES AND LED OBSTRUCTION LIGHT ON NEW CONCRETE FOUNDATION WITH GROUNDING COMPLETE	EA	2		\$ -
49	L-100-5.8	APRON LIGHTING CONTROL/CONTACTOR CABINET, WITH PHOTOCELL, NEMA 3R, OUTDOOR RATED COMPLETE	EA	1		\$ -
50	L-108-5.1	L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, #6 BARE COPPER GROUND	LF	855		\$ -
51	L-108-5.2	2-#4, #4 NEUTRAL, #4 GROUND THWN, 600V CABLE (APRON LIGHTING)	LF	3,050		\$ -
52	L-110-5.1	SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED RETROFIT IN EXISTING ASPHALT	LF	85		\$ -
53	L-110-5.2	SINGLE-WAY (1) - 2" CONDUIT, CONCRETE ENCASED	LF	675		\$ -
54	L-110-5.3	MULTIPLE-WAY, (2) - 2" CONDUIT, CONCRETE ENCASED	LF	460		\$ -
55	L-110-5.4	MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED	LF	423		\$ -
56	L-110-5.5	MULTIPLE-WAY (8) - 2" CONDUIT, SLURRY ENCASED, RETROFIT IN EXISTING ASPHALT	LF	85		\$ -
57	L-110-5.6	MULTIPLE-WAY (9) - 2" CONDUIT, CONCRETE ENCASED, RETROFIT IN EXISTING CONCRETE	LF	60		\$ -
58	L-110-5.7	MULTIPLE-WAY, (8) - 2" CONDUIT, CONCRETE ENCASED	LF	975		\$ -

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
59	L-110-5.8	MULTIPLE-WAY, (12) - 2" CONDUIT, CONCRETE ENCASED	LF	10		\$ -
60	L-110-5.9	MULTIPLE-WAY, (3) - 4" CONDUIT (COMMUNICATIONS), CONCRETE ENCASED, RETROFIT IN EXISTING CONCRETE	LF	60		\$ -
61	L-115-5.1	NEW HANDHOLE, PREFABRICATED CONCRETE 4' X 4' X 4' WITH AIRCRAFT RATED LID	EA	4		\$ -
62	L-115-5.2	NEW L-867D 16" DIAMETER JUNCTION CAN WITH BLANK COVER	EA	1		\$ -
63	L-115-5.3	NEW SIZE 5 TRAFFIC RATED PULLBOX	EA	2		\$ -
64	L-125-5.1	NEW ELEVATED L-861T(L) LED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-868 BASE CAN WITH CONVERSION RING	EA	9		\$
		BASE BID TOTAL (ITEMS 1 - 64)				
<div style="text-align: right;">_____ & ____/100 DOLLARS</div> <div style="text-align: center;">WRITTEN WORDS</div>						

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APPROXIMATE QUANTITIES

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)	LS	1
2	C-102-4.1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	LS	1
3	C-105	MOBILIZATION (4% MAXIMUM)	LS	1
4	SP-30.1	CONSTRUCTION SURVEY LAYOUT	LS	1
5	SP-31.1	UNFORESEEN UTILITY LOCATING (ALLOWANCE)	ALLOW	1
6	SP-32.1	OVEREXCAVATION OF UNSUITABLE MATERIALS AND BACKFILL WITH SELECT MATERIAL (ALLOWANCE)	ALLOW	1
7	SP-34.1	RPR FIELD OFFICE	LS	1
8	SP-33.1	EXISTING UTILITY RELOCATIONS (ALLOWANCE)	ALLOW	1
9	SP-36-8.1	AIRPORT SAFETY AND SECURITY (M-003)	LS	1
10	SP-40.1	CONSTRUCT TEMPORARY ASPHALT PAVEMENT TRANSITION	SY	497
11	SP-41.1	ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS 1	EA	2
12	P-101-5.1	REMOVE EXISTING ASPHALT PAVEMENT, FULL DEPTH (UP TO 10" DEPTH)	SY	93572
13	P-101-5.7	REMOVE EXISTING CONCRETE PAVEMENT	SY	722
14	P-101-5.8	REMOVE EXISING STORM DRAIN MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	2
15	P-101-5.9	REMOVE EXISTING ULITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	1
16	P-101-5.10	REMOVE EXISTING FAA COMMUNICATION MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	EA	1
17	P-101-5.11	REMOVE EXISTING INLET FRAME, GRATE AND REINFORCED CONCRETE APRON	EA	8
18	P-101-5.12	REMOVE EXISTING CONCRETE TIE DOWN	EA	33
19	P-151-4.1	CLEARING AND GRUBBING	LS	1
20	P-152-4.1	UNCLASSIFIED EXCAVATION	CY	64158
21	P-209-5.2	CRUSHED AGGREGATE BASE COURSE (10" THICK)	SY	87653
22	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6" THICK)	SY	6424
23	P-401-8.1	ASPHALT CONCRETE SURFACE COURSE	TON	1807
24	P-401-8.2	ASPHALT CONCRETE BASE COURSE	TON	1807
25	P-501-8.1	CONCRETE PAVEMENT	SY	87654
26	P-603-5.1	BITUMINOUS TACK COAT	TON	50
27	P-604-6.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1/2 INCH WIDE)	LF	79310
28	P-604-6.2	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1 INCH WIDE)	LF	1868
29	P-605-5.1	JOINT SEALING FILLER	LF	5700
30	P-620-5.1a	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	SF	12874
31	P-620-5.1b	SURFACE PREPARATION OF NEW PAVEMENT SURFACES	SF	54132
32	P-620-5.3c	REFLECTIVE MEDIA	LS	1
33	P-620-5.2a	YELLOW PAVEMENT MARKING	SF	16128
34	P-620-5.2b	WHITE PAVEMENT MARKING	SF	2051
35	P-620-5.2c	BLACK PAVEMENT MARKING	SF	35479
36	P-620-5.2d	RED PAVEMENT MARKING	SF	474
37	P-620-5.4d	TEMPORARY MARKINGS	LS	1
38	D-751-5.1	CONSTRUCT NEW CONCRETE STORM DRAIN MANHOLE APRON	EA	2
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42	L-100-5.1	REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN	EA	9
43	L-100-5.2	EXCAVATE AND REMOVE EXISTING HANDHOLE	EA	3
44	L-100-5.3	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR	LF	1125
45	L-100-5.4	EXCAVATE AND REMOVE EXISTING CONDUCTOR. CONDUIT TO REMAIN	LF	127
46	L-100-5.5	TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMPERS	LS	1
47	L-100-5.6	NEW 25A 2-POLE 480V CIRCUIT BREAKER INSTALLED (APRON LIGHTING CIRCUITS)	EA	4
48	L-100-5.7	NEW 100' STEEL POLE WITH 12, 1200 WATT LED FIXTURES AND LED OBSTRUCTION LIGHT ON NEW CONCRETE FOUNDATION WITH GROUNDING COMPLETE	EA	2
49	L-100-5.8	APRON LIGHTING CONTROL/CONTACTOR CABINET,WITH PHOTOCCELL, NEMA 3R, OUTDOOR RATED COMPLETE	EA	1
50	L-108-5.1	L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, #6 BARE COPPER GROUND	LF	855
51	L-108-5.2	2-#4, #4 NEUTRAL, #4 GROUND THWN, 600V CABLE (APRON LIGHTING)	LF	3050
52	L-110-5.1	SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED RETROFIT IN EXISTING ASPHALT	LF	85
53	L-110-5.2	SINGLE-WAY (1) - 2" CONDUIT, CONCRETE ENCASED	LF	675
54	L-110-5.3	MULTIPLE-WAY, (2) - 2" CONDUIT, CONCRETE ENCASED	LF	460
55	L-110-5.4	MULTIPLE-WAY, (4) - 2" CONDUIT, CONCRETE ENCASED	LF	423
56	L-110-5.5	MULTIPLE-WAY (8) - 2" CONDUIT, SLURRY ENCASED, RETROFIT IN EXISTING ASPHALT	LF	85
57	L-110-5.6	MULTIPLE-WAY (9) - 2" CONDUIT, CONCRETE ENCASED, RETROFIT IN EXISTING CONCRETE	LF	60
58	L-110-5.7	MULTIPLE-WAY, (8) - 2" CONDUIT, CONCRETE ENCASED	LF	975
59	L-110-5.8	MULTIPLE-WAY, (12) - 2" CONDUIT, CONCRETE ENCASED	LF	10
60	L-110-5.9	MULTIPLE-WAY, (3) - 4" CONDUIT (COMMUNICATIONS), CONCRETE ENCASED, RETROFIT IN EXISTING CONCRETE	LF	60
61	L-115-5.1	NEW HANDHOLE, PREFABRICATED CONCRETE 4' X 4' X 4' WITH AIRCRAFT RATED LID	EA	4
62	L-115-5.2	NEW L-867D 16" DIAMETER JUNCTION CAN WITH BLANK COVER	EA	1
63	L-115-5.3	NEW SIZE 5 TRAFFIC RATED PULLBOX	EA	2
64	L-125-5.1	NEW ELEVATED L-861T(L) LED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-868 BASE CAN WITH CONVERSION RING	EA	9

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PRIME CONSULTANT

DESIGNED BY: G. SHAW
DRAWN BY: A. SANTILLI
CHECKED BY: C. JHAVERI
DATE: 04/18/2023
DWG SCALE: AS SHOWN
APP NO.: 3-04-0029-106-2023
3-04-0029-107-2023

PHX **PHX** CITY OF PHOENIX AVIATION DEPARTMENT
PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
WEST AIR CARGO
RECONSTRUCTION
AV06000026 FAA

QUANTITY SUMMARY
& SHEET INDEX

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GENERAL NOTES:	
<div>1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.</div> <div>2. CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION'S (FAA) STANDARDS AND SPECIFICATIONS, ADOT STANDARDS AND SPECIFICATIONS, CITY OF PHOENIX (COP) SUPPLEMENTARY CONDITIONS, COP SUPPLEMENTS, 2015 MAG UNIFORM STANDARD GOVERNMENTS' (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS. IN THE EVENT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS FOR THIS PROJECT AND THE STANDARDS, THE CONTRACT DOCUMENTS FOR THIS PROJECT SHALL PREVAIL.</div> <div>CALCULATED DIMENSIONS WILL GOVERN OVER SCALED DIMENSIONS.</div> <div>3. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY, AND STATE TRAFFIC REGULATIONS CONCERNING THE USE OF STREETS AND ROADWAYS FOR HAULING. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT NO COST TO THE OWNER.</div> <div>4. THESE PLANS SHOW ITEMS TO BE CONSTRUCTED UNDER THIS CONTRACT. ACTUAL FIELD CONDITIONS, GRADES, LOCATIONS AND OTHER FEATURES MAY DIFFER FROM CONDITIONS INDICATED IN THESE DOCUMENTS.</div> <div>5. HAUL ROUTES – THE LOCATION OF HAUL ROUTES ON THE AIRPORT SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE COP AVIATION DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF–SITE HAUL ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON–SITE HAUL ROUTES WILL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. TAXIWAY AND RUNWAY PAVEMENT CROSSINGS ALONG HAUL ROUTES SHALL BE PROTECTED. FENCING, DRAINAGE, GRADING OR OTHER WORK NECESSARY TO CONSTRUCT HAUL ROUTES ON THE AIRPORT IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER AND AIRPORT PRIOR TO THE WORK. EXCESS SOILS PLACEMENT – EXCESS SOILS, EXCESS MILLED ASPHALT CONCRETE, CONCRETE, RUBBLE, AND UNSUITABLE EXCAVATION SHALL BE DISPOSED OF OFF–SITE ACCORDING TO LOCAL LAWS AND REGULATIONS. MILLED ASPHALT CONCRETE IS TO BE PLACED IN THE LOCATIONS APPROVED BY THE AIRPORT.</div> <div>COSTS ASSOCIATED WITH THE MATERIALS AND TASKS ABOVE ARE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE COP AVIATION DEPARTMENT INDICATING THE LOCATION AND QUANTITY OF ALL MATERIAL DISPOSED OF OFF AIRPORT PROPERTY.</div> <div>ANY REMOVAL ITEMS OF VALUE ARE TO REMAIN THE PROPERTY OF THE COP UNLESS OTHERWISE INDICATED. ALL MATERIAL TO BE HAULED OFF–SITE SHALL BE SAMPLED PRIOR TO HAUL OFF. CONTRACTOR TO COORDINATE WITH COP AVIATION PLANNING AND ENVIRONMENTAL PRIOR TO START OF CONSTRUCTION.</div> <div>6. SALVAGED ITEMS – ANY SALVAGED ITEMS ARE TO REMAIN THE PROPERTY OF AIRPORT.</div> <div>7. NO MATERIAL SHALL BE WASTED OR STOCKPILED ON THE AIRPORT UNLESS APPROVED BY THE ENGINEER AND AIRPORT. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OPERATIONS OR WIND AND IN ACCORDANCE WITH FAA ADVISORY CIRCULARS.</div> <div>8. CONTRACTOR GENERATED DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE MOVEMENT AREAS. MATERIAL DROPPING WITHIN THESE AREAS SHALL BE REMOVED IMMEDIATELY AND CONTINUOUSLY BY THE CONTRACTOR DURING WORKING HOURS.</div> <div>9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL COP PROPERTY AND SHALL LOCATE AND PROTECT CAREFULLY FROM DAMAGE OR DISTURBANCE ALL BENCHMARKS, LAND MONUMENTS AND PROPERTY MARKERS. IF DAMAGE OR INJURY TO PROPERTY DOES OCCUR DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REBUILDING OR RESTORING AS DIRECTED BY THE COP AVIATION DEPARTMENT AND THE ENGINEER.</div> <div>10. THE CONTRACTOR IS ADVISED THAT OTHER CONSTRUCTION WILL BE IN PROGRESS DURING ALL OR PART OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS AT THE AIRPORT.</div> <div>11. EXISTING AIRPORT SURVEY MONUMENTS ARE LOCATED THROUGHOUT THE CONSTRUCTION AREA. THE CONTRACTOR SHALL AT HIS EXPENSE, HAVE A REGISTERED LAND SURVEYOR REPLACE ANY DISTURBED MONUMENT USING CITY OF PHOENIX STANDARDS. REPLACED MONUMENTS SHALL BE PLACED AT LEAST 10' BUT NOT MORE THAN 50' FROM THE ORIGINAL MONUMENT.</div> <div>12. SAFETY AND SECURITY – SAFETY AND SECURITY IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE COORDINATED WITH AIRPORT OPERATIONS, COP AVIATION DEPARTMENT AND THE ENGINEER. SEE SPECIAL CONDITIONS FOR SAFETY, SECURITY, BADGE AND OPERATING REQUIREMENTS IN THE CSPP.</div> <div>13. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS, STAGING AREA OR DESIGNATED HAUL ROUTES WITHOUT THE WRITTEN APPROVAL BY THE ENGINEER AND AIRPORT.</div> <div>14. THE CONTRACTOR SHALL NOTIFY THE COP AVIATION DEPARTMENT IN WRITING, THROUGH THE ENGINEER, A MINIMUM OF SEVENTY–TWO (72) HOURS IN ADVANCE TO OBTAIN CLEARANCE FOR WORK. THE CONTRACTOR SHALL SUBMIT A CPM SCHEDULE FOR APPROVAL AT THE PRE–CONSTRUCTION CONFERENCE.</div> <div>15. THE OWNER RESERVES THE RIGHT TO MAKE REVISIONS TO THE FINISHED ELEVATIONS AND GRADIENTS. IF CHANGES ARE NECESSARY, THE OWNER WILL FURNISH A REVISED GRADING OR PAVING PLAN. UNIT PRICES SHALL GOVERN FOR REVISED QUANTITIES.</div> <div>16. SPECIFICATIONS ARE PROVIDED WHICH REQUIRE THE CONTRACTOR TO APPLY WATER, CHEMICALS, VEGETATION OR OTHER MATERIALS TO PREVENT THE OCCURRENCE OF DUST WHICH IS OBJECTIONABLE TO THE OPERATIONS OR USERS OF THE AREA. THESE SHALL INCLUDE BUT NOT BE LIMITED TO AIRPORT AUTHORITY OPERATIONS, MAINTENANCE, AIRCRAFT OPERATIONS, AND AIRFIELD OPERATIONS, AND LAND SIDE OPERATIONS. THE CONTRACTOR SHALL ALSO DISCONTINUE OPERATIONS, WHICH VIOLATE EXISTING LAWS AND REGULATIONS OR CREATE A UNIQUE HAZARD TO AIR TRAFFIC. ALL COST FOR CONTROLLING DUST OR POLLUTANTS TO THE AIR OF ANY KIND SHALL BE INCIDENTAL TO THE CONTRACT.</div> <div>17. EXISTING UTILITY INFORMATION, LIGHTING DUCTS, AND CABLES SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE, AND LOCATION WERE COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS TO THE ENGINEER AND AIRPORT, AND ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OTHERWISE OR SPECIFIED. THE OWNER AND ENGINEER BEAR NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. ANY AND ALL DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXCAVATION IMMEDIATELY NEAR UTILITIES SHALL BE DONE BY HAND. UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE RESET OR RELOCATED BY THE UTILITY COMPANY CONCERNED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONTACT THE FOLLOWING UTILITY COMPANIES AT LEAST SEVENTY–TWO (72) HOURS PRIOR TO BEGINNING CONSTRUCTION:</div>	<div>ARIZONA PUBLIC SERVICE (602) 371–6451, CONTACT: DAVID McCASLAND FAA FACILITIES (602) 305–2532, CONTACT: ROGER GUSTAFSON LUMEN (602) 530–0496, CONTACT: JOHN O'DELL GAS (SW GAS) (602) 484–5344, CONTACT: NORMA JARDIN CITY WATER/SEWER (602) 261–8229, CONTACT: JAMI ERICKSON COP ENVIRONMENTAL (602) 273–3396, CONTACT: REBECCA GODLEY ALL EMERGENCY, FIRE, (602) 273–3311, CONTACT: OPERATOR POLICE, MEDICAL, (602) 540–7667, CONTACT: DAVID THORNTON COP ELECTRICAL (602) 540–7667, CONTACT: DAVID THORNTON COP COMMUNICATIONS (602) 708–0244, CONTACT: CHAD BLOTKAMP COP UTILITIES (602) 708–0244, CONTACT: CHAD BLOTKAMP</div> <div>18. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY OWNERS AND THE PROGRAM MANAGER TO LOCATE ALL EXISTING AND PROPOSED UTILITIES PRIOR TO PERFORMING TRENCHING, MASS EXCAVATION, OR OTHER EARTHWORK.</div> <div>19. SEVERAL UTILITY OWNERS INCLUDING THE COP AVIATION DEPARTMENT, SOLID WASTE MANAGEMENT DEPARTMENT, HUMAN SERVICES DEPARTMENT, FEDERAL AVIATION ADMINISTRATION, AND OTHERS ARE NOT MEMBERS OF THE BLUE STAKE CENTER NOTIFICATION SYSTEM AND MUST BE NOTIFIED INDIVIDUALLY. CONTRACTOR TO USE A THIRD PARTY UTILITY LOCATOR.</div> <div>20. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND ELECTRICAL SYSTEMS TO REMAIN PRIOR TO COMMENCING ANY DRAINAGE EXCAVATION.</div> <div>21. POWER, CONTROL CABLES AND FIXTURES FOR AIRFIELD LIGHTING AND NAVIGATIONAL AIDS ARE LOCATED IN THE CONSTRUCTION AREAS. THE CONTRACTOR'S PERSONNEL SHALL BECOME FAMILIAR WITH THESE CABLE AND FIXTURE LOCATIONS AND KEEP VEHICLES AND EQUIPMENT CLEAR OF THEM AT ALL TIMES. ADHERENCE TO AVIATION LOCKOUT/TAGOUT PROCEDURES SHALL BE STRICTLY ENFORCED.</div> <div>22. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT ITS OWN EXPENSE.</div> <div>23. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AT ALL TIMES.</div> <div>24. THE CONTRACTOR SHALL NOT DRAW WATER FROM ANY FIRE HYDRANT FOR USE ON THE WORK WITHOUT FIRST OBTAINING A WRITTEN PERMIT FROM THE CONTROLLING FIRE DEPARTMENT.</div> <div>25. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE COP AVIATION DEPARTMENT ON THE PRECISE LOCATION AND LIMITS OF THE STAGING AREA, AS WELL AS ANY SPECIAL REQUIREMENTS FOR FENCING, SECURITY OR ACCESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL UTILITIES AND HOOKUPS NECESSARY FOR THE CONTRACTOR'S USE AND FOR ALL PROJECT FIELD OFFICES AS REQUIRED IN THE SPECIAL PROVISIONS.</div> <div>26. THE EXACT LIMITS, LIGHTING, AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER AND AIRPORT IN THE AREAS GENERALLY AS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR AND PAID DIRECTLY TO THE APPROPRIATE UTILITY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND AIRPORT. THE CONTRACTOR SHALL USE THE STORAGE AND STAGING AREAS SHOWN ON THE PLANS FOR HIS/HER SHOP, MATERIAL AND EQUIPMENT STORAGE AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARING THE STORAGE AND STAGING AREA SITE SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO CLEARING AND GRADING OF THE SITE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, ALL SECURITY FENCING, CLEAN–UP AND RESTORATION OF SITE TO ORIGINAL CONDITION.</div> <div>27. THE CONTRACTOR SHALL SUBMIT A DRAWING SHOWING THE PROPOSED SITE LAYOUT OF ANY BATCH PLANTS. THE PLAN SHALL BE APPROVED BY THE ENGINEER AND AIRPORT PRIOR TO STARTING ANY WORK AT THE CONTRACTOR'S STAGING AREA.</div> <div>28. THE CONTRACTOR SHALL INVESTIGATE THE AVAILABILITY OF AN ADEQUATE SUPPLY OF SUITABLE WATER, MAKE ALL ARRANGEMENTS (PERMITS) FOR THE PURCHASE OF THE WATER, AND PROVIDE NECESSARY FACILITIES TO FURNISH WATER FOR USE DURING CONSTRUCTION, SOLELY AT HIS EXPENSE.</div> <div>29. BATCH PLANT SITES AND OTHER AREAS USED DURING CONSTRUCTION ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT NO COST TO THE OWNER.</div> <div>30. THE CONTRACTOR SHALL COMPLETE CLEAN UP AND RESTORATION OF ENTIRE PROJECT AREA, INCLUDING STAGING AND STORAGE AREAS, AS APPROVED BY THE ENGINEER AND AIRPORT WITHIN 10 DAYS OF CONTRACT COMPLETION DATE.</div> <div>31. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ELECTRICAL TIE–OVERS THAT WILL BE REQUIRED TO KEEP TAXIWAY EDGE LIGHTS AND SIGNS IN OPERATION AT ALL TIMES WHEN THE PAVEMENT AREAS ARE AVAILABLE TO AIRCRAFT TRAFFIC.</div> <div>32. THE CONTRACTOR SHALL CONDUCT THE FINAL CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING THE PAVEMENTS TO AIR TRAFFIC. CONTRACTOR TO PROTECT ALL EXISTING UTILITY VAULTS AND LIDS DURING CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ALL VAULT LIDS ARE OPERATIONAL FOLLOWING COMPLETION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS DAILY CLEAN UP OF HIS/HER WORK AREA. THE CONTRACTOR SHALL CONDUCT POWER VACUUM CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING EACH PHASE OF THE PAVEMENTS TO AIR TRAFFIC, AND FOR ACTIVE TAXIWAYS AND RUNWAYS IMMEDIATELY FOLLOWING ANY ACCESS ONTO OR CROSSING OF THE PAVEMENT BY CONSTRUCTION TRAFFIC.</div> <div>33. THE CONTRACTOR IS REQUIRED TO PROVIDE LIGHTING FOR CONSTRUCTION DURING THE HOURS OF DARKNESS AS REQUIRED TO PERFORM CONSTRUCTION AND RELATED ACTIVITIES. COSTS FOR LIGHTING SHALL BE INCIDENTAL TO THE CONTRACT.</div> <div>34. THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS WHILE THIS PROJECT IS IN PROGRESS. THE CONTRACTOR'S SUPERINTENDENT SHALL BE THE DESIGNATED RESPONSIBLE CONTRACTOR REPRESENTATIVE AND SHALL BE AVAILABLE IN CASE OF EMERGENCIES ON A 24–HOUR DAILY BASIS.</div> <div>35. MOST CONSTRUCTION WORK IN THIS PROJECT WILL OCCUR WITHIN THE AIR OPERATIONS AREA (AOA) AND IS SUBJECT TO OPERATIONAL SAFETY AND SECURITY REQUIREMENTS OF THE COP AND FAA. ANY ADDITIONAL REQUIREMENTS AS MAY BE DEEMED NECESSARY BY THE COP OR THE FAA WILL BE COMPLIED WITH BY THE CONTRACTOR AT NO COST TO THE OWNER.</div> <div>36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING EMPLOYEES TO AND FROM THE PROJECT SITE IF NECESSARY.</div> <div>37. ROADS USED AS CONTRACTOR ROUTES MAY BE USED BY OTHER AIRPORT VEHICLES. THE CONTRACTOR SHALL NOT INTERFERE WITH OTHER VEHICLE TRAFFIC AND SHALL YIELD TO EMERGENCY VEHICLES ALONG ANY OF THE AIRPORT OR PUBLIC ROADS.</div> <div>38. EACH CONTRACTOR/SUBCONTRACTOR, INCLUDING EACH CONTRACTOR/SUBCONTRACTOR EMPLOYEE, WHO OPERATES A GROUND VEHICLE ON ANY PORTION OF THE AOA AT THE AIRPORT MUST BE FAMILIAR WITH: •PHX RULES AND REGULATIONS. •PHX PROCEDURES FOR THE OPERATION OF GROUND VEHICLES. •FAILURE TO COMPLY WITH PHX RULES AND REGULATIONS AND/OR PROCEDURES FOR THE OPERATION OF GROUND VEHICLES, WILL REQUIRE THE PERSON TO ATTEND A MOVEMENT AREA OPERATING PROCEDURES CLASS. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, CONSTRUCTION EQUIPMENT (IE. ROLLERS, BACKHOES, SCRAPERS, ETC.) THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING 1' SQUARE, WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLES SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO SUPPLIED.</div> <div>40. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR EACH WORKSHIFT UNLESS TRAVELING TO OR FROM THE SITE. ALL VEHICLES AND EQUIPMENT SHALL BE PARKED IN STAGING AREAS AS APPROVED BY THE ENGINEER AND AIRPORT.</div> <div>41. CONTRACTOR SHALL PROVIDE TRAINED FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION TRAFFIC WHEN OPERATING ACROSS ANY ACTIVE TAXIWAY. FLAGMEN SHALL BE EQUIPPED WITH RADIOS ON GROUND CONTROL FREQUENCY AND SHALL ALLOW TRAFFIC CROSSINGS ON ACTIVE TAXIWAYS AND RUNWAYS ONLY UPON SPECIFIC AUTHORIZATION BY AIR TRAFFIC CONTROL. FLAGMEN SHALL ALSO BE PROVIDED FOR CONTROLLING EQUIPMENT ENTERING AND LEAVING THE PROJECT AREA.</div> <div>42. THE CONTRACTOR SHALL AT NO TIME CROSS AN ACTIVE RUNWAY OR TAXIWAY UNLESS ESCORTED BY A COP RADIO ESCORT. VIOLATION COULD RESULT IN PERMANENT EJECTION FROM THE AIRPORT PROPERTY AND/OR THE ASSESSMENT OF FINES.</div> <div>43. CONTRACTOR ACCESS GATE SHALL BE MANNED BY A CONTRACTOR SUPPLIED GATE GUARD OR REMAIN LOCKED AT ALL TIMES (WHEN NOT OCCUPIED). APPROVED GATE GUARD SHALL CONTROL ACCESS TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE.</div> <div>44. CONSTRUCTION EQUIPMENT SHALL NOT PENETRATE THE HEIGHT RESTRICTIONS FOR FAR PART 77.</div> <div>45. ALL SURFACE RUNOFF FROM THE STAGING AREA OR THE AREAS UNDER CONSTRUCTION SHALL BE COLLECTED AND ADEQUATELY FILTERED BEFORE DISCHARGE INTO THE EXISTING DRAINAGE SYSTEM. CONTRACTOR SHALL MITIGATE THE IMPACTS OF RUNOFF FROM THE SITE IN CONFORMANCE WITH THE SPECIFICATIONS.</div> <div>46. NO ADJUSTMENT FOR ADDITIONAL COMPENSATION AND TIME WILL BE MADE FOR TIME LOST IN WORK AREAS CONTIGUOUS TO TAXIWAYS AND RUNWAYS DUE TO AIRCRAFT TRAFFIC.</div> <div>47. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXCAVATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS, IF KNOWN.</div> <div>48. ANY PAINT USED FOR NEW PAVEMENT MARKINGS SHALL BE LEAD FREE CERTIFIED. CONTRACTOR TO PROVIDE MATERIAL SAFETY DATA SHEET TO THE AIRPORT FOR APPROVAL PRIOR TO CONSTRUCTION.</div> <div>49. BEFORE ANY WORK COMMENCES, AN ASBESTOS AND LEAD SURVEY NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT LAURA JARDIEANU AT 602–273–4300 APPROXIMATELY 3–4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE ASBESTOS AND LEAD SURVEY DONE. ANY ENVIRONMENTAL HAZARDS FOUND DURING THIS SURVEY SHALL BE ABATED PRIOR TO ANY DISTURBANCE. CONTRACTOR TO ALSO NOTIFY LAURA JARDIEANU FOR ANY SUBSURFACE MATERIALS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL ASSUME ALL SUSPECT MATERIALS CONTAIN ASBESTOS (ANYTHING OTHER THAN UNPAINTED WOOD, METAL, OR GLASS) UNLESS OTHERWISE NOTIFIED.</div> <div>50. IF SOIL IS TO BE REMOVED FROM THE AIRPORT, THEN PRIOR TO ANY WORK COMMENCING, SOIL SAMPLING NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT LAURA JARDIEANU APPROXIMATELY 3–4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE SOIL SAMPLING COMPLETED. THE SOIL SHALL BE SAMPLED BY COP ENVIRONMENTAL ON–CALL CONSULTANTS WITH ASSISTANCE FROM THE CONTRACTOR. CONTRACTOR SHALL PROVIDE BARRICADES, COMMUNICATE WITH OPERATIONS AND REPLACE THE CORED AREA AFTER SAMPLING IS COMPLETE PER AIRPORT SPECIFICATIONS.</div> <div>51. IF THE PROJECT WILL DISTURB MORE THAN 1/10 OF AN ACRE, THE CONTRACTOR SHALL OBTAIN A MARICOPA COUNTY DUST CONTROL PERMIT PRIOR TO CONSTRUCTION.</div> <div>52. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT FROM ADEQ AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE SUBMITTED TO COP AIRPORT ENVIRONMENTAL FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.</div> <div>53. ANY WASTE OR CONSTRUCTION DEBRIS MUST BE DISPOSED OF PROPERLY. THE DISPOSAL OF MATERIAL OFF–SITE SHALL BE DONE IN A LAWFUL MANNER AND AT A SITE HAVING CURRENT APPROVAL TO ACCEPT SOLID WASTE FOR DISPOSAL.</div> <div>54. CONTRACTOR TO OBTAIN PERMIT FROM THE WATER DEPARTMENT TO ACCESS STORM DRAINS, STORM DRAIN MANHOLES, AND SANITARY SEWER MANHOLES IF REQUIRED.</div> <div>55. SERVICE ROAD ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALIGNMENT FOR SERVICE ROAD DETOURS SHALL BE APPROVED BY AIRPORT OPERATIONS AND SECURITY.</div> <div>56. NIGHT WORK HOURS ARE BETWEEN 2300–0700 HOURS IN THE SUMMER AND 2359–0800 HOURS IN THE WINTER. WINTER HOURS BEGIN NOVEMBER 5, 2023.</div>
<div>Call Arizona 811 at least two full working days before you begin excavation</div> <div>ARIZONA811</div> <div>Call 811 or click Arizona811.com</div>	
<div>PRIME CONSULTANT</div> <div>TRACÉ CONSULTING</div> <div>1301 E. Jefferson St. Suite 3 Phoenix, AZ 85034</div> <div>PHX CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX</div> <div>05/23</div> <div>04/23</div> <div>DATE</div> <div>1</div> <div>ADDITION</div> <div>ISSUED FOR BID</div> <div>REVISIONS</div> <div>NO</div> <div>NO</div>	
<div>PHX CITY OF PHOENIX AVIATION DEPARTMENT</div> <div>PHOENIX SKY HARBOR INTERNATIONAL AIRPORT</div> <div>WEST AIR CARGO RECONSTRUCTION</div> <div>AV06000026 FAA</div>	
<div>Designed by: G. SHAW</div> <div>Drawn by: A. SANTILLI</div> <div>Checked by: C. JHIVERY</div> <div>Date: 04/18/2023</div> <div>Dwg scale: AS SHOWN</div> <div>AP NO: 3-04-0029-106-2023</div> <div>3-04-0029-107-2023</div>	
<div>SHEET OVERVIEW TITLE</div> <div>GENERAL NOTES</div> <div>SHEET REFERENCE NUMBER: GI-003</div> <div>SHEET 3 OF 108</div>	

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LEGEND

CONTRACTOR HAUL ROUTE

RUNWAY PROTECTION ZONE

PROJECT AREA

CONTRACTOR STAGING & STORAGE AREA

CONTRACTOR FIELD OFFICE & EMPLOYEE PARKING
(FINAL LOCATION TO BE DETERMINED BY PHX)

POSSIBLE LOCATION OF TEMPORARY BATCH PLANT

NOTES:

1. AREAS SHOWN ARE INTENDED TO BE AN APPROXIMATE GEOGRAPHICAL REPRESENTATION.

2. THE CONTRACTOR SHALL COORDINATE THE LIMITS OF THE STAGING AND STORAGE AREA, THE LIMITS OF THE EMPLOYEE PARKING AND TEMPORARY FENCING WITH AIRPORT OPERATIONS PRIOR TO CONSTRUCTION.

3. CONTRACTOR CAN ACCESS THE SITE USING GATE 200F. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM AIRPORT OPERATIONS REGARDING USE OF ANY GATE. AIRPORT OPERATIONS MAY ALLOW ACCESS FROM OTHER GATES, BASED ON AVAILABILITY OF SECURITY STAFF.

4. CONTRACTOR TO ENSURE THAT NO CONSTRUCTION TRAFFIC ENTERING SITE BACKS UP ON OR BLOCKS ANY PUBLIC STREET.

5. ANY EXISTING PAVEMENT AREA ALONG ANY HAUL ROUTE SHALL BE ADEQUATELY PROTECTED PER CIVIL TECHNICAL SPECIFICATION ITEM (SP-36) PRIOR TO ANY HAULING ACTIVITIES.

6. CONTRACTOR RESPONSIBLE FOR ESTABLISHING ALL UTILITY SERVICES AND PERMITS FOR MOBILIZING A TEMPORARY BATCH PLANT.

N

0

400'

800'

SCALE: 1"=400'

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION

ARIZONA811

Call 811 or click Arizona811.com

PRIME CONSULTANT

TRACE CONSULTING

1201 E. JEFFERSON ST. SUITE 3 | PHOENIX, AZ 85034

THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

1

ADDITION 1

ISSUED FOR BID

NO

05/23

04/23

REVISIONS / SUBMISSIONS

DATE

PHX DOT BYR

CITY OF PHOENIX AVIATION DEPARTMENT

PHOENIX SKY HARBOR INTERNATIONAL AIRPORT

WEST AIR CARGO RECONSTRUCTION

AV06000026 FAA

Designed by: G. SHAW

Drawn by: A. SANTILLI

Checked by: C. JHAVERI

Date: 04/18/2023

Dwg scale: AS SHOWN

AP NO: 3-04-0029-106-2023

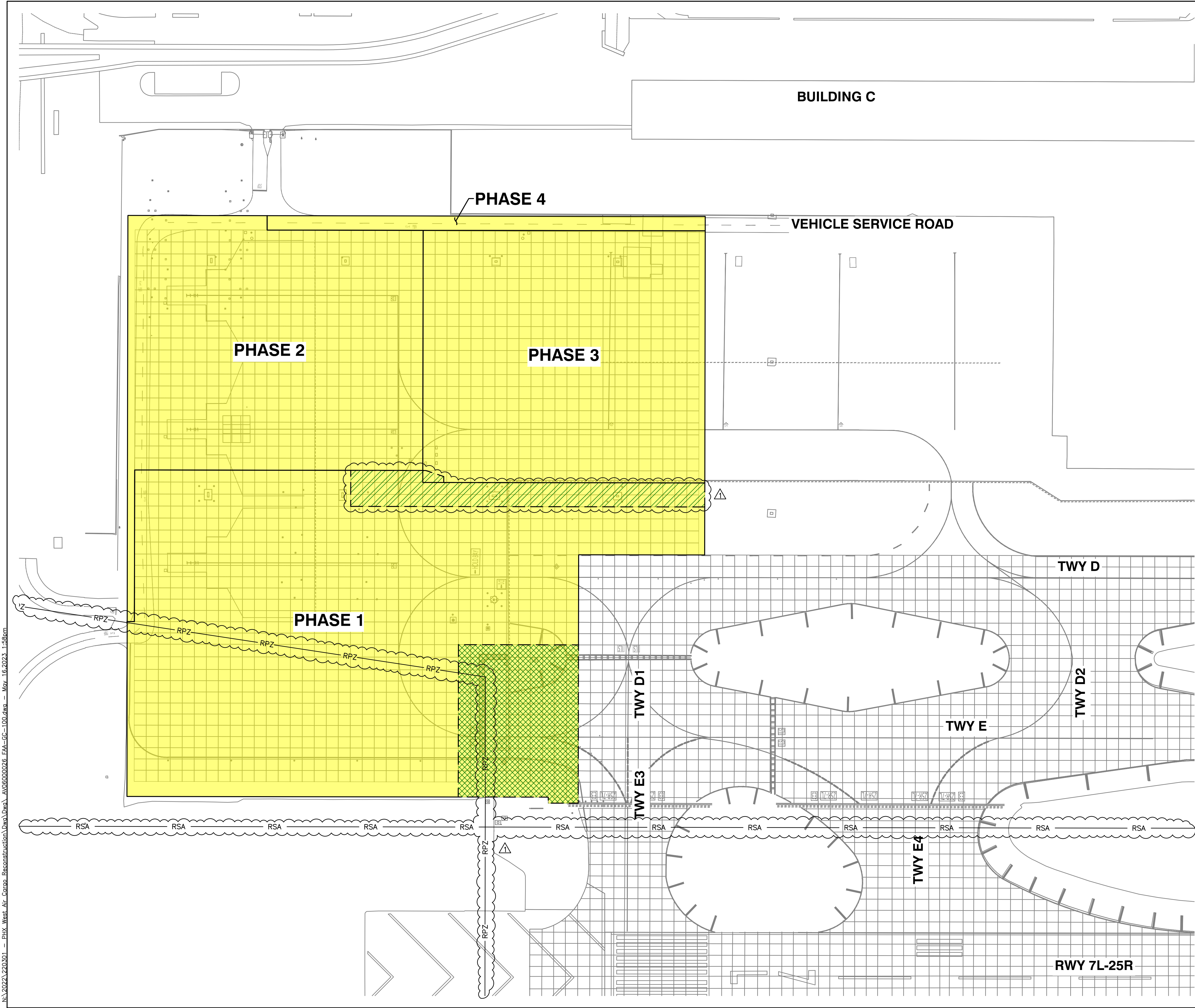
3-04-0029-107-2023

SHEET OVERVIEW TITLE

PROJECT LAYOUT PLAN

SHEET REFERENCE NUMBER: GI-401

SHEET 5 OF 108



BUILDING C

✓ PHASE 4

VEHICLE SERVICE ROAD

PHASE 2

PHASE 3

PHASE 1

TWY D

TWY E

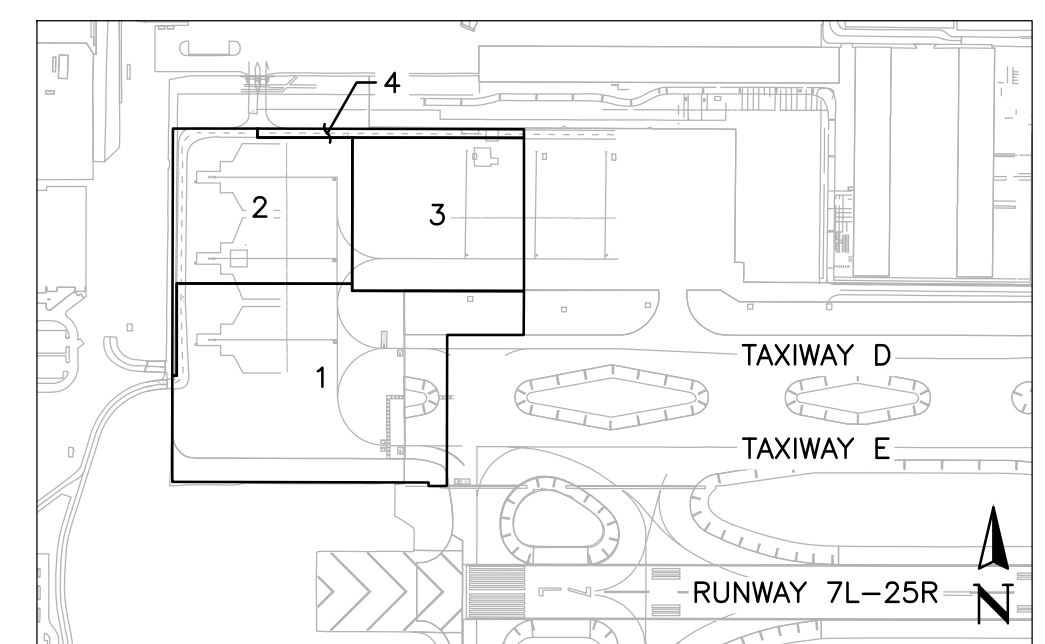
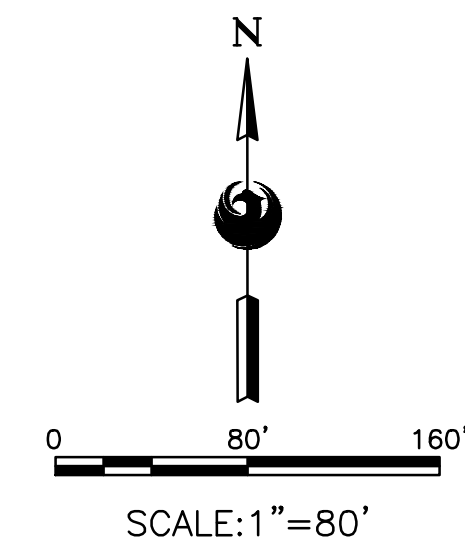
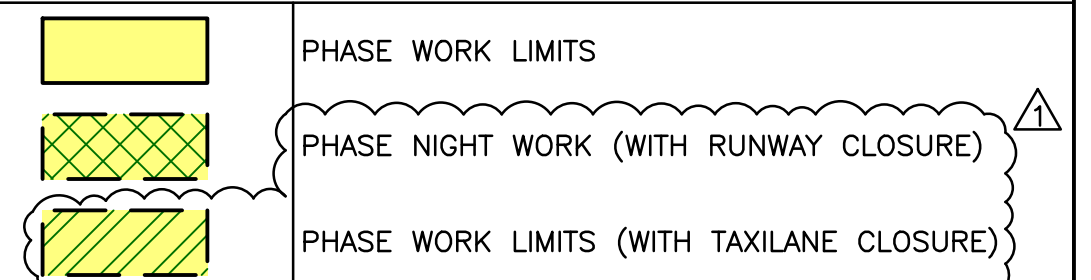
TWY D2

RWY 7L-25R

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL NOTES AND REFERENCES TO PHASES ARE APPLICABLE TO EACH SUB-PHASE. SUB-PHASES ARE INDICATED WITH LETTERED SUFFIXES (I.E. 1A, 2B, ETC).
2. SCHEDULE OF WORK AND SEQUENCE OF CONSTRUCTION PHASES SHALL BE COORDINATED WITH PSHIA.
3. CONSTRUCTION ACTIVITIES ARE NOT PERMITTED AT THE AIRPORT DURING PSHIA MORATORIUM DATES. CONTRACTOR SHALL COORDINATE WITH PSHIA FOR SCHEDULING OF WORK ACTIVITIES.
4. CONTRACTOR SHALL PROVIDE SUFFICIENT FLAG PERSONS TO ENSURE CONSTRUCTION VEHICLES USING THE CONSTRUCTION HAUL ROAD DO NOT INTERRUPT TRAVEL OF AIRCRAFT TO AND FROM THE GATES DURING CONSTRUCTION. FLAG PERSONS SHOWN ON THESE PLANS ARE THE MINIMUM THE CONTRACTOR MUST PROVIDE. SEE INDIVIDUAL PHASES FOR ADDITIONAL FLAG PERSONS REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AIRPORT PERSONNEL IF FIELD CONDITIONS WARRANT ADDITIONAL FLAG PERSONS OR ESCORT VEHICLES. TWO FLAG PERSONS SHALL BE USED DURING ALL OFF SITE HAULING OPERATIONS AND NEW DELIVERIES OF MATERIALS.
5. CONTRACTOR SHALL WORK ON A SINGLE PHASE AT A TIME. EACH PHASE OF WORK MUST BE RETURNED TO FULL OPERATIONAL LEVELS PRIOR TO BEGINNING WORK ON NEXT PHASE.
6. THE CONTRACTOR SHALL PERFORM THE WORK IN THE PHASING SEQUENCES SHOWN ON THE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROVIDE A MAXIMUM OF 3 DAYS BETWEEN COMPLETING ONE PHASE AND BEGINNING WORK IN THE NEXT PHASE OF WORK TO ALLOW AIRLINE EQUIPMENT TO BE RELOCATED/REMOVED FROM THE NEXT PHASE OF WORK.
8. SEE THE INDIVIDUAL PHASING SHEETS FOR ADDITIONAL INFORMATION ON IMPACTS TO OPERATIONS ON TAXIWAY D AND TAXIWAY E FOR EACH PHASE.

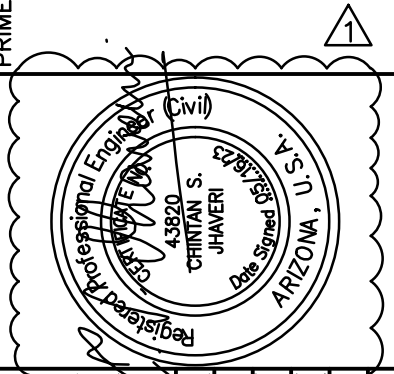
LEGEND



KEY MAP

NTS

PRIME CONSULIANI



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX"

1	ADDENDUM 1	05/23
	ISSUED FOR BID	04/26
NO	REVISIONS / SURMISSIONS	DATE

PHX DOT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
WEST AIR CARGO
RECONSTRUCTION**
AV060000026 FAA

Designed by: G. SHAW

Drawn by: A. SANTILLI

Checked by: C. JHAVERI

Date: 04/18/2021

Dwg scale: AS SHOWN

AIP NO.:
3-04-0029-106-2023

3-04-0029-107-2023

SHEET OVERVIEW TITLE

OVERALL CONSTRUCTION PHASING PLAN

SHEET
REFERENCE
NUMBER:

GC-100

SHEET 7 OF 108



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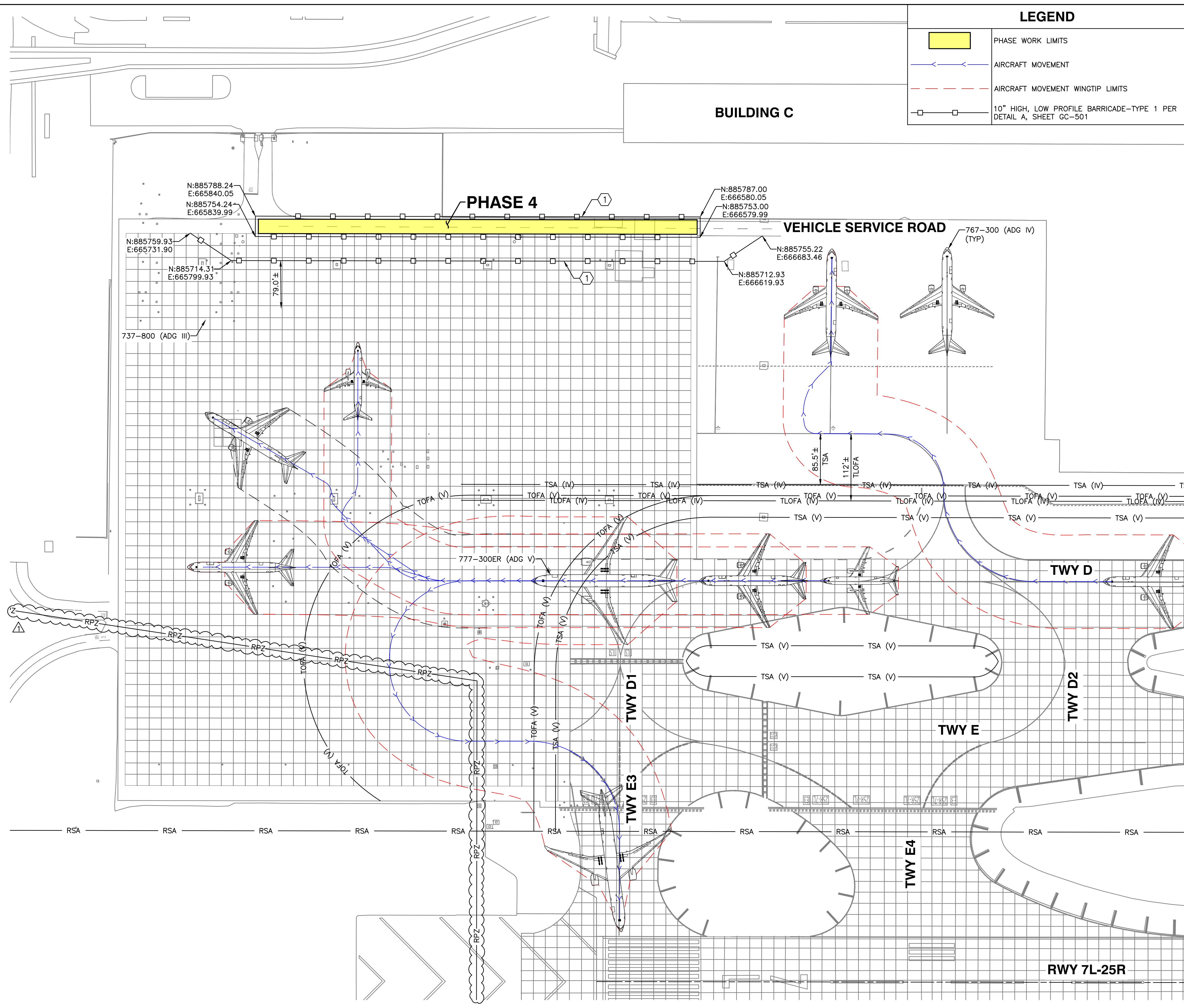






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LEGEND	
	PHASE WORK LIMITS
	AIRCRAFT MOVEMENT
	AIRCRAFT MOVEMENT WINGTIP LIMITS
	10" HIGH, LOW PROFILE BARRICADE-TYPE 1 PER DETAIL A, SHEET GC-501

NO.	DESCRIPTION
①	INSTALL TYPE 1 BARRICADE
②	INSTALL VERTICAL BARRICADE

NOTES

PHASE 4 ELEMENTS:

PHASE 4 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SAWCUT, REMOVING EXISTING AC AND PCC PAVEMENT, PAVEMENT MARKING OBLITERATION AND INSTALLATION, AND AC PAVEMENT CONSTRUCTION.

PHASE WORK LIMITS:

CONTRACTOR MAY SCHEDULE WORK OUTSIDE OF TOFA AND TLOFA 24 HOURS PER DAY.

AREAS CLOSED TO AIRCRAFT OPERATIONS:

APRON AREA WITHIN PHASE 4 WORK LIMITS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS. AIRCRAFT OPERATIONS ON THE APRON TO MAINTAIN PROPER CLEARANCE FROM PHASE 4 WORK AREA.

DURATION OF CLOSURES:

TAXIWAY RESTRICTIONS AND CLOSURES EXPECTED FOR THE ENTIRE PHASE DURATION OF APPROXIMATELY 21 CALENDAR DAYS.

TAXI ROUTES OF REDUCED TSA/TOFA TO REFLECT REDUCED ADG USE:

TAXI ROUTES ARE UNAFFECTED.

ARFF ACCESS ROUTES:

ARFF ACCESS ROUTES TO ALL AREAS INCLUDING THE PHASE 4 WORK LIMITS WILL BE MAINTAINED AT ALL TIMES.

CONSTRUCTION STAGING, DISPOSAL, AND CLEANOUT AREAS:

CONTRACTOR STAGING AND CLEANOUT AREAS ARE IDENTIFIED ON SHEET GI-401. ALL DISPOSAL OF WASTE MATERIALS SHALL BE OFFSITE PER PROJECT SPECIFICATIONS.

IMPACTS TO NAVAIDS:

THERE IS NO ANTICIPATED IMPACT TO NAVAIDS DURING THIS PHASE OF CONSTRUCTION.

LIGHTING, MARKING, AND SIGNING CHANGES:

NO LIGHTING, MARKING, AND SIGNING CHANGES ARE ANTICIPATED FOR THIS PHASE.

AVAILABLE RUNWAY LENGTH AND/OR REDUCED RSA/ROFA TO REFLECT REDUCED ADG USE:

THE FULL LENGTH OF RUNWAY 7L-25R IS AVAILABLE.

REQUIRED HAZARD MARKING, LIGHTING, AND SIGNING:

INTERLOCKING LOW PROFILE BARRICADES WITH RED (STEADY OR FLASHING) LIGHTS MOUNTED ON THE BARRICADES SPACED NO MORE THAN 10- FEET.

WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCTION:

NOT APPLICABLE DURING THIS PHASE.

LEAD TIMES REQUIRED FOR NOTIFICATIONS:

THE CONTRACTOR IS REQUIRED TO NOTIFY AIRPORT OPERATIONS A MINIMUM OF 72 HOURS IN ADVANCE TO PROVIDE REQUIRED NOTIFICATIONS.

1	ADDENDUM 1	05/23	
	ISSUED FOR BID	04/23	
NO	REVISIONS / SUBMISSIONS	DATE	

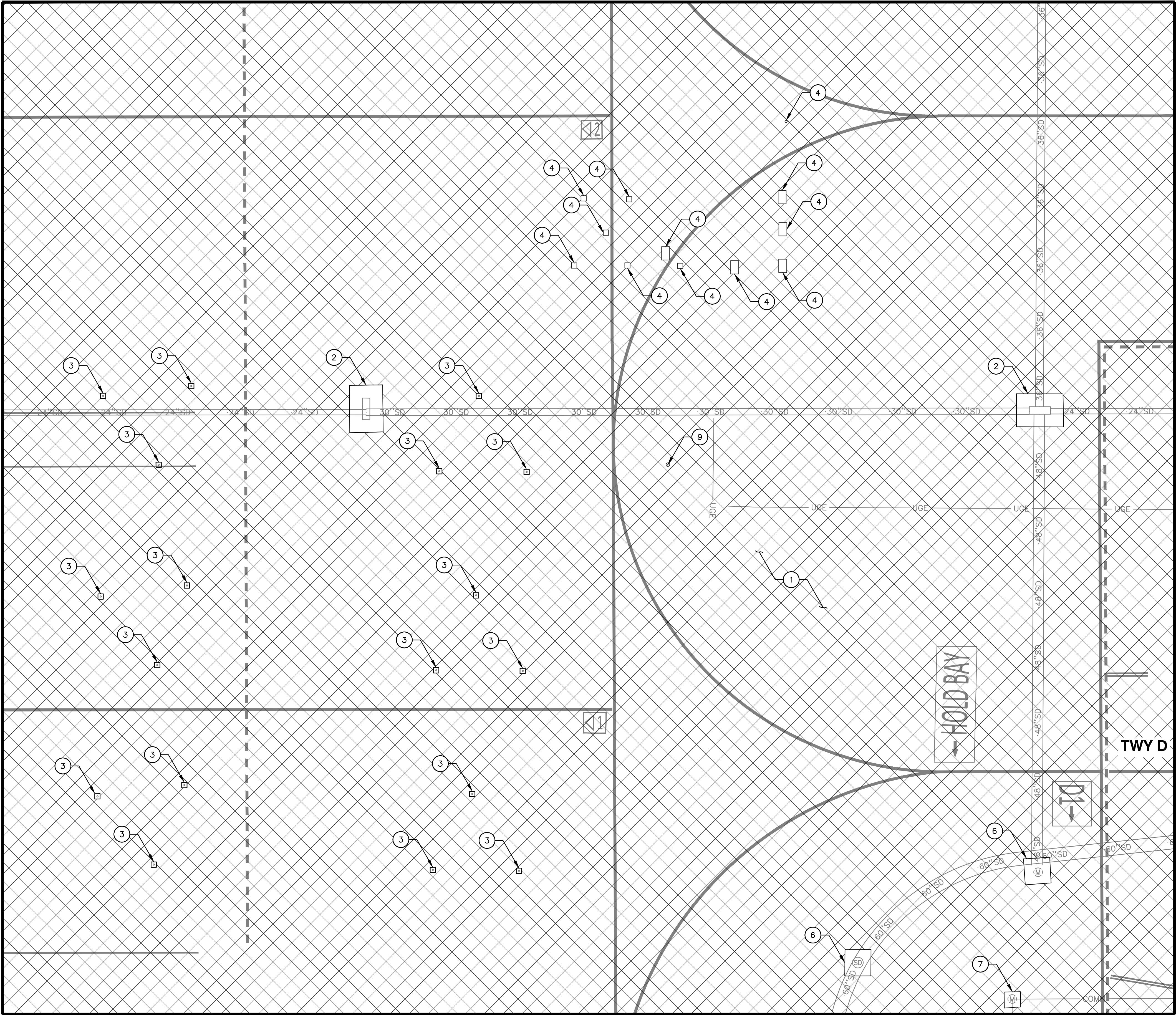
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Drawn by: A. SANTILLI	
Checked by: C. JHAWERI	
Date: 04/18/2023	
Dwg scale: AS SHOWN	

AIP NO.:
 3-04-0029-106-2023
 3-04-0029-107-2023

SHEET OVERVIEW TITLE	CONSTRUCTION PHASING PLAN PHASE 4
	SHEET REFERENCE NUMBER: GC-104
SHEET 11 OF 108	

N:\2022\220301 - PHX West Air Cargo Reconstruction\Drawings\AV06000026 FAA-CD-106.dwg - May 16, 2023 1:05pm

MATCH LINE - SEE SHEET CD-105



MATCH LINE - SEE SHEET CD-107

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT, FULL DEPTH (UP TO 10" DEPTH)	18485 SY
2	REMOVE EXISTING INLET FRAME, GRATE AND REINFORCED CONCRETE APRON	2 EA
3	REMOVE EXISTING CONCRETE TIE DOWN	18 EA
4	REMOVE EXISTING CONCRETE PAVEMENT	11 SY
6	REMOVE EXISTING STORM DRAIN MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	2 EA
7	REMOVE EXISTING FAA COMMUNICATION MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	1 EA
9	ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS	1 EA
E	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

LEGEND

	ASPHALT PAVEMENT REMOVAL
--	--------------------------

NOTES

1. WORK FOR DEMOLITION ITEM 9 FOR CUT, CAP, AND ABANDON EXISTING MONITORING WELL SHALL BE PERFORMED BY AN AUTHORIZED CONTRACTOR PER TECHNICAL SPECIAL PROVISION ITEM 41.

TRACE CONSULTING

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NO.	REVISIONS / SUBMISSIONS	DATE
1	ADDENDUM 1 ISSUED FOR BID	05/23/2023

PHX

PHOENIX AVIATION DEPARTMENT

INTERNATIONAL AIRPORT

WEST AIR CARGO RECONSTRUCTION

AV06000026 FAA

Designed by: G. SHAW

Drawn by: A. SANTILLI

Checked by: C. JHAVERI

Date: 04/18/2023

Dwg scale: AS SHOWN

AP NO: 3-04-0029-106-2023

3-04-0029-107-2023

SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER: CD-106

SHEET 26 OF 108

0 20' 40'

SCALE: 1"=20'

N

KEY MAP

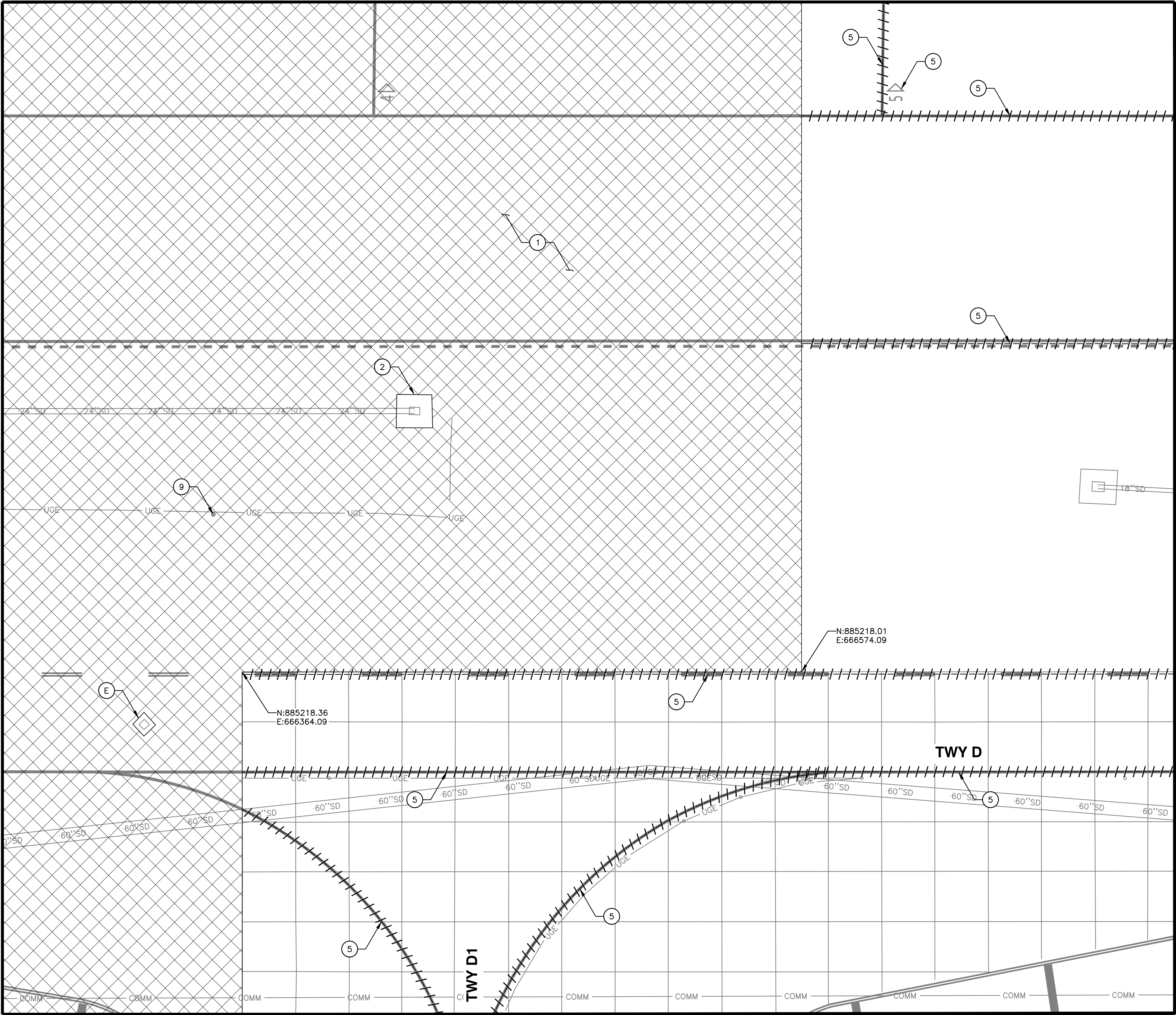
NTS

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

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MATCH LINE - SEE SHEET CD-106



MATCH LINE - SEE SHEET CD-103

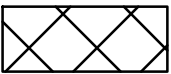
MATCH LINE - SEE SHEET CD-108

MATCH LINE - SEE SHEET CD-111

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
1	SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT, FULL DEPTH (UP TO 10" DEPTH)	9646 SY
2	REMOVE EXISTING INLET FRAME, GRATE AND REINFORCED CONCRETE APRON	1 EA
5	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	2309 SF
9	ABANDON EXISTING MONITORING WELL PER SPECIAL PROVISIONS	1 EA
E	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

LEGEND

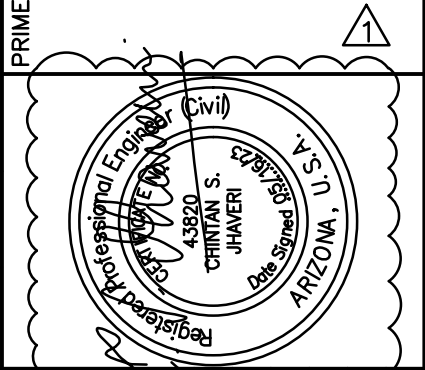


ASPHALT PAVEMENT REMOVAL

NOTES

1. WORK FOR DEMOLITION ITEM 9 FOR CUT, CAP, AND ABANDON EXISTING MONITORING WELL SHALL BE PERFORMED BY AN AUTHORIZED CONTRACTOR PER TECHNICAL SPECIAL PROVISION ITEM 41.

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NO	REVISIONS / SUBMISSIONS
1	ADDITION 1
	ISSUED FOR BID
	DATE
	05/23
	04/23

PHX **AVIATION** **BYR**

CITY OF PHOENIX AVIATION DEPARTMENT
PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
WEST AIR CARGO
RECONSTRUCTION
AV06000026 FAA

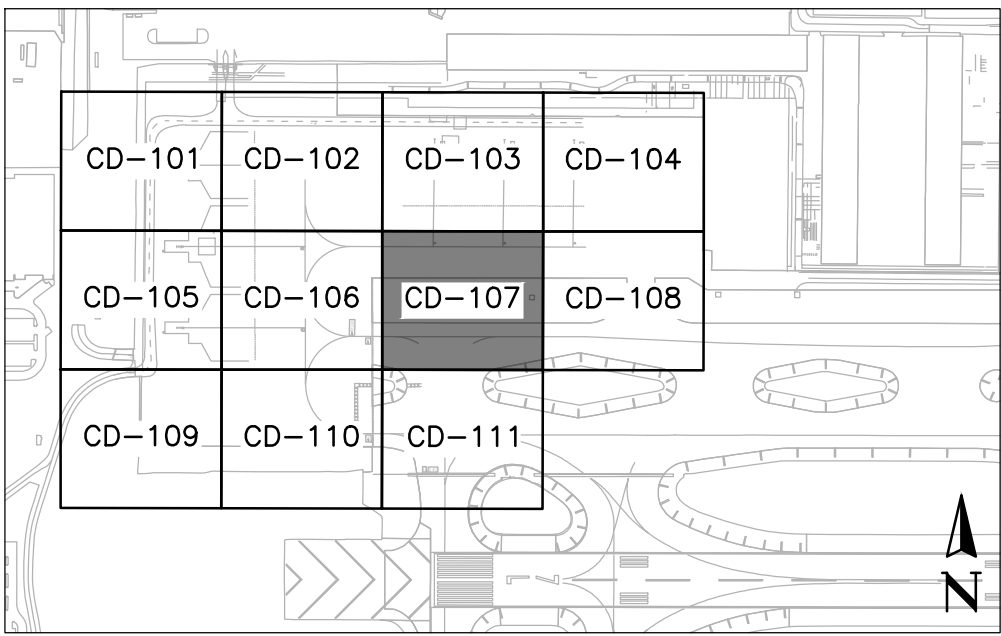
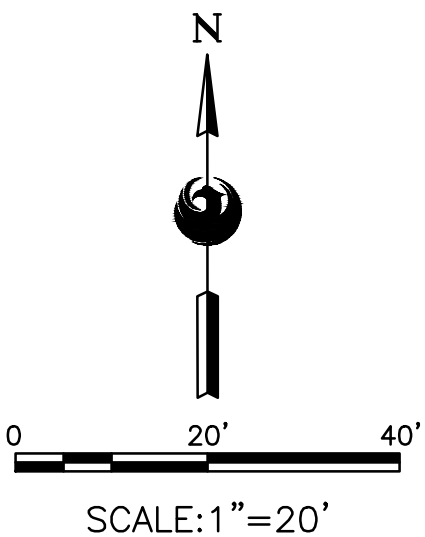
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Date: 04/18/2023
Dwg scale: AS SHOWN
AIP NO.: 3-04-0029-106-2023
3-04-0029-107-2023

SHEET OVERVIEW TITLE

CIVIL DEMOLITION PLAN

SHEET REFERENCE NUMBER:
CD-107

SHEET 27 OF 108



KEY MAP

NTS

Phoenix, Arizona 85004

MAY 4 1995

OPERATIONS DIV

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well

- 1 Owner Name City of Phoenix(Aviation Dept.)
Address 3400 Sky Harbor Blvd. Phoenix AZ 85034
Street City State Zip
- 2 Driller Name Layne Environmental Services
Address 9002 S. Hardy Drive Tempe AZ 85284
Street City State Zip
- 3 Location: 1N N/S 3E E/W 14 1/4 SE 1/4 NW 1/4 NW
Township Range Section 10-acre 40-acre 160-acre
- 4 Well Registration No. 55- 548686 (Required)
- 5 Permit No _____ (If issued)

DESCRIPTION OF WELL.

- 6 Total depth of hole 105' ft
- 7 Type of casing SCH. 40 PVC
- 8 Diameter and length of casing 4 in from 0 to 45 in from _____ to _____
- 9 Method of sealing at reduction points N/A
- 10 Perforated from 45 to 105 from _____ to _____ from _____ to _____
- 11 Size of cuts .010 Number of cuts per foot 288
- 12 If screen was installed Length 600 ft Diam 4 in Type PVC
- 13 Method of construction DRILLED
(drilled, dug, driven, bored, jetted, etc)
- 14 Date started 4 3 95
Month Day Year
- 15 Date completed 4 4 95
Month Day Year
- 16 Depth to water 55' ft (If flowing well, so state)
- 17 Describe point from which depth measurements were made, and give sea-level elevation if available
GROUND SURFACE
- 18 If flowing well state method of flow regulation

19 Remarks PW-1

DWR 55 55 10/94 (Rev)

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

Registration No 55-548686

File No A (1-3) 14bbd

Received _____ By _____

Entered **ENTERED JUN 6 1995**

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If well is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me (or under my supervision), and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name Layne Environmental Services

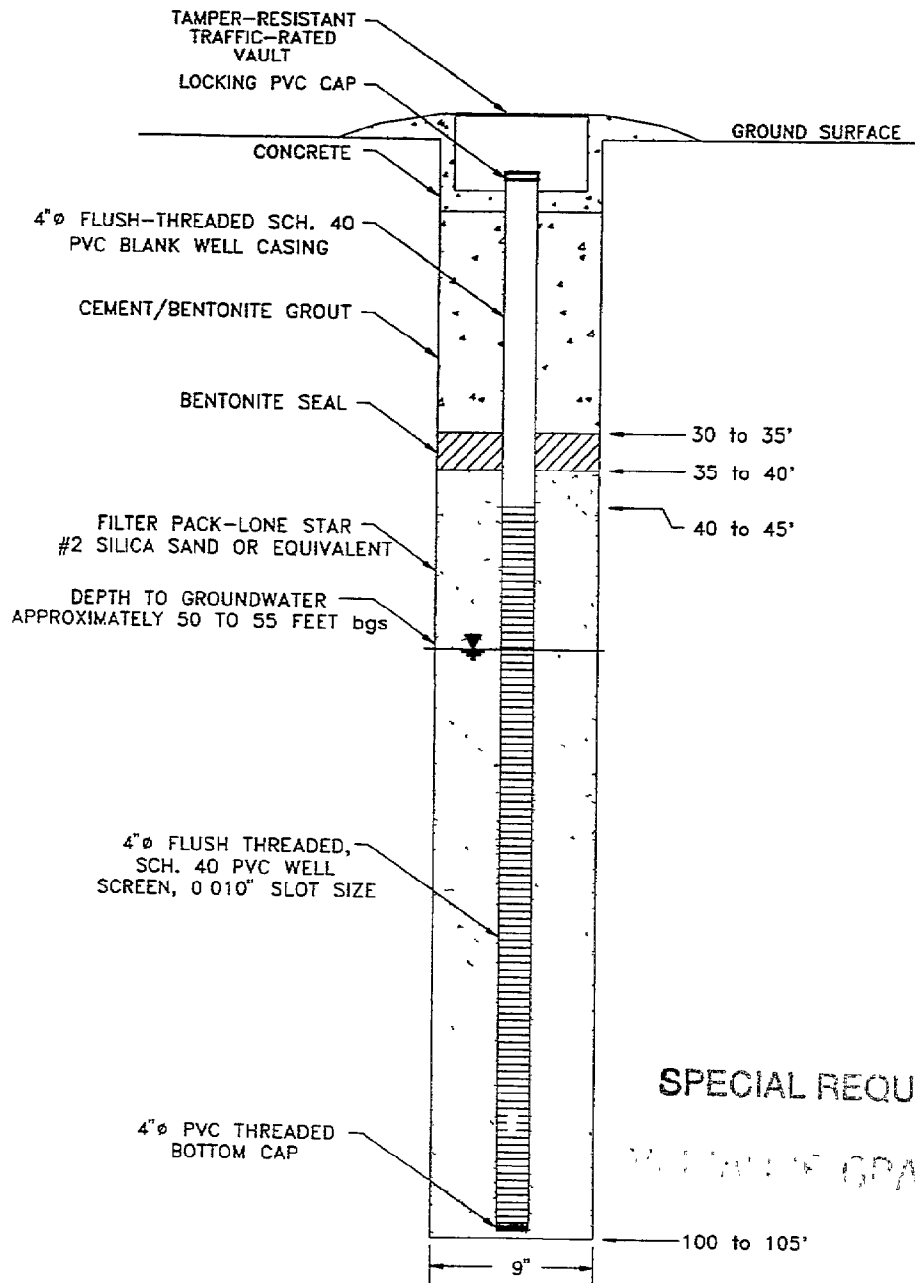
9002 S. Hardy Drive
Street

Tempe	AZ	85284	496-b500
City	State	Zip	Phone No

City _____ State _____ Zip _____ Phone No _____
Date 5/1/95

NW-1 DWG


MAR 17 1995



SPECIAL REQUIREMENT

WARRANTY GRANTED

NOT TO SCALE

<p>EARTH  TECH</p>	<p>PROJECT NO 923621-01 COP/SHIA WQARF</p>
<p>CITY OF PHOENIX SKY HARBOR INTERNATIONAL AIRPORT PROPOSED MONITOR WELL CONSTRUCTION DIAGRAM</p>	
<p>FIGURE 1</p>	<p>PW-1</p>

1984 EARTH TECH
Rev Info Date 10-27-94 By J O
Created 4-26-94
Drafted By TOTMM Graphics J Olson
Desc 0102 Sid Upd

frame base hatch gw bxl dim

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL

PW-1

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

1 WELL LOCATION:

T10NS R30EW 14
Township Range Section

SE 1/4 NW 1/4 NW 1/4
10 ACRE 40 ACRE 160 ACRE

2. Position location of the well on the land:

Latitude 33 0 25 .59 "

Longitude 112 0 1 .39 "

3 County: MARICOPA

4. Owner of the land of wellsite:

CITY OF PHOENIX
Name AVIATION DEPARTMENT
Address 3400 SKY HARBOR BLVD
PHOENIX AZ 85034
City State Zip

5. Lessee of the land of wellsite:

Name N/A*
Address
City State Zip

6 Owner of well:

CITY OF PHOENIX
Name AVIATION DEPARTMENT
Address 3400 SKY HARBOR BLVD
PHOENIX AZ 85034
City State Zip

7. Consulting Firm: EARTH TECH

Contact Person: SHARON LAGAS / MARTIN WINTER

Phone: (602) 894-8482

8. Purpose of well drilled pursuant to this notice

Monitor ☒

Piezometer ☐

9. If for deepening or modifying, Well Registration Number

55- N/A

10. Construction will start:

APRIL 3 95
Month Day Year

11. Period well will remain in

use ~ 10 Months ☒ Years

12. For monitoring wells, is pump equipment to be installed?

Yes ☐ No ☒

(a) If yes, design pump capacity

(b) What use will be made of the water

13. Drilling firm:

LAYNE ENVIRONMENTAL
Name
900 S. HARDY
Address
TEMPE AZ 85284
City State Zip

DWR License No. 473

A-04, DEB337
ROC License classification

14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?

Yes ☐ No ☒

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No. A(1-3)14 BBD

Filed 3-17-95 By ek

Input ENTERED APR 5 1995

DUPLICATE

Mailed 3-29-95 By ek

Registration 55- 548686

AMA/INA Ph

W/S 07 S/B 04

SPECIAL REQUIREMENT

16 Proposed method of abandonment of well after project is completed: VARIANCE GRANTED
AND R12-15-816. IN ACCORDANCE WITH A.A.C. R12-15-811

17 Is this well to monitor existing contamination? NO Potential contamination YES Please explain: THIS WELL
WILL ASSESS AN AREA OF POTENTIAL CONTAMINATION.

* N/A = NOT APPLICABLE

GENERAL INSTRUCTIONS

- Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 500 NORTH THIRD STREET, PHOENIX, AZ 85004
- For specific instructions, limitations and conditions, see the reverse side of this form.
- Must be signed by **land owner or lessee**.
- Section §45 596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may **not** proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

SCOTT MARS
Typed or Printed Name

Scott Mars for COP AV DEPT
Signature [X] Land Owner [] Lessee of wellsite

3-17-95
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? N/A*
If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? N/A

19. WELL CONSTRUCTION PLAN

- a) Drilling method (mud rotary, hollow-stem auger, etc.) PERCUSSION HAMMER
b) Borehole diameters: 9 inches from 0 feet to 105 feet.
_____ inches from _____ feet to _____ feet
c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material Sch. 40 PVC diameter 4 inches from 0 feet to 45 feet
material _____ diameter _____ inches from _____ feet to _____ feet
d) Method of sealing at reductions None - threaded
e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
material Grout method Tremie from 0 feet to 35 feet
material Bentonite method Tremie from 35 feet to 40 feet
f) Filter packs (state material):
material Low Star # 2 Silica Sand from 40 feet to 105 feet
material _____ from _____ feet to _____ feet
g) Perforations or screen specifications:
type Sch. 40 PVC 0.010 Slot from 45 feet to 105 feet
type _____ from _____ feet to _____ feet
h) Method of well development (bail, air lift, surge) SURGE + BAIL
i) Will surface or conductor casing extend above grade: Yes _____ No ✓

SEE ATTACHED
WELL CONSTRUCTION
DIAGRAM

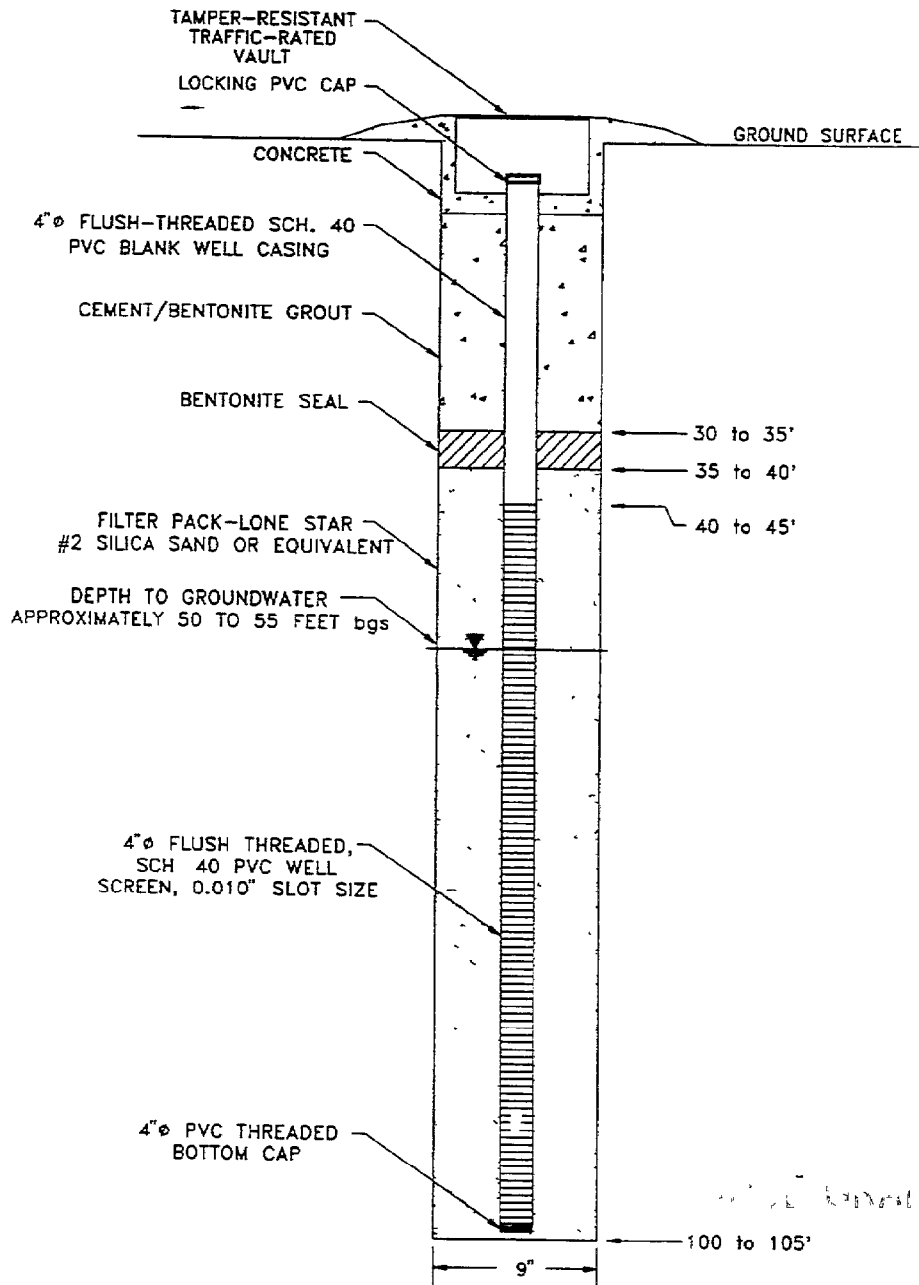
- 20 Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

* N/A = NOT APPLICABLE

CONDITIONS

- I Construction and abandonment standards for all wells shall be in accordance with A A C R12 15 811 and R12-15-816.
- II. Drilling of the well shall be completed within one (1) year after the date of Notice
- III A Well Driller Report, is required within 30 days of completion of drilling. A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells
- IV Pump equipment may not be installed on a well drilled for piezometer purposes. If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total
- V A.A.C. Rule R12-15-811 H 2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing. Identification information will include well registration number "
- VI Special construction standards required pursuant to A.A.C. Rule R12-15 821. _____

MAR 17 1995



NOT TO SCALE

EARTH TECH

PROJECT NO 923621-01
COP/SHIA WQARF

CITY OF PHOENIX
SKY HARBOR INTERNATIONAL AIRPORT
PROPOSED MONITOR WELL
CONSTRUCTION DIAGRAM

FIGURE 1

PW-1

3/95

Layne® Environmental Services

9002 S Hardy Drive • Tempe, Arizona 85284 • 602 496 6500 • Fax 602 496 4936

March 17, 1995

MAR 17 1995

Ms. Ellen Kane
Operations Division
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004-3903

RE: Request for Variance

Dear Ms. Kane:

On behalf of The Earth Technology Corporation, Layne Environmental Services would like to request a variance for the construction of one monitor well (PW-1), located at Township 1N, Range 3E, Section 14 for City of Phoenix - Aviation Department, in Maricopa County.

We request the following construction variances:

- * SCH 40 PVC casing will be used in lieu of the 20-foot steel surface casing.
- * The wells will be installed in sealed, flush-grade, traffic-rated vaults because above-grade protective casings would interfere with traffic flow.

Please feel free to contact me if you have any questions. Thank you for your attention to this Request for Variance.

Sincerely,

LAYNE ENVIRONMENTAL SERVICES



Eric J. Brue
Sales Coordinator



MONITORING WELL, HAZARDOUS WASTE & SOIL INVESTIGATION

Layne® Environmental Services

9002 S Hardy Drive • Tempe, Arizona 85284 • 602 496 6500 • Fax 602 496 4936

March 17, 1995

MAR 17 1995

Ms. Ellen Kane
Operations Division
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004-3903

RE: Request for Variance

Dear Ms. Kane:

On behalf of The Earth Technology Corporation, Layne Environmental Services would like to request a variance for the construction of one monitor well (PW-1), located at Township 1N, Range 3E, Section 14 for City of Phoenix - Aviation Department, in Maricopa County.

We request the following construction variances:

- * SCH 40 PVC casing will be used in lieu of the 20-foot steel surface casing.
- * The wells will be installed in sealed, flush-grade, traffic-rated vaults because above-grade protective casings would interfere with traffic flow.

Please feel free to contact me if you have any questions. Thank you for your attention to this Request for Variance.

Sincerely,

LAYNE ENVIRONMENTAL SERVICES



Eric J. Brue
Sales Coordinator



MONITORING WELL, HAZARDOUS WASTE & SOIL INVESTIGATION

ARIZONA DEPARTMENT OF WATER RESOURCES

Hydrology Division

Park Place

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2448

Fax (602) 417-2401



FIFF SYMINGTON
Governor

RITA P PEARSON
Director

March 28, 1995

Layne Environmental Services
9002 South Hardy Drive
Tempe, Arizona 85284

ATTN: Eric J. Brue

**Re: Variance for Construction of Five Monitor Wells
Registration Numbers 55-548686 through 55-548690**

Dear Mr. Brue:

The Arizona Department of Water Resources received your request dated March 17, 1995, for a variance for construction of five monitor wells to be located in Maricopa County. The purpose of these wells will be to evaluate potential groundwater contamination.

The Arizona Department of Water Resources approves this request for the following variance:

- Thermoplastic casings (risers) with a watertight cap may be used in lieu of steel casings (R12-15-811.B.1).

The following *special requirements* are conditions for this variance (R12-15-821.):

- The wells shall be completed flush-to-ground with vandalproof, traffic-rated vaults per ASTM Standard Guide D5092, Section 8.9.2.3.
- The PVC inner casings (risers) shall comply with ASTM Standard Guide D5092, Section 6.5.
- The wells shall be constructed per the "Variance Granted" Notice of Intention to Drill.
- The wells shall be abandoned (decommissioned) per ASTM Standard Guide D5299, Section 7.3.8.

If you have any questions, please contact Abe Malek of my Staff at (602) 417-2400 ext.# 7335.

Sincerely,

Greg Wallace
Chief Hydrologist

GW/AM/tm

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N 3RD ST., PHOENIX, AZ. 85004

Telephone (602) 417-2470

Fax (602) 417-2401



FIFE SYMINGTON
Governor

RITA P PEARSON
Director

March 29, 1995

CITY OF PHOENIX (AVIATION DEPT.)
3400 SKY HARBOR BLVD.
PHOENIX, AZ. 85034

RE: Registration No. 55-548686 THRU 55-548690

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Ellen Kane
Ellen Kane

Groundwater Permit Specialist

**ARIZONA DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION**

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-548686 THRU 55-548687

AUTHORIZED DRILLER: LAYNE ENVIRONMENTAL SERVICES

LICENSE NO. 473

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

CITY OF PHX (AVIATION DEPT.) 3400 SKY HARBOR BLVD

PHOENIX

AZ 85034

The well(s) is/are to be located in:

SE 1/4 NW 1/4 NW 1/4 Section 14 Township 1.0 NORTH Range 3.0 EAST
10 acre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT: 2

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 16TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.



**VARIANCE
GRANTED**


CHIEF, OPERATIONS DIVISION

RECEIPT

18462

THE EARTH TECHNOLOGY CORPORATION
1501 W. FOUNTAINHEAD PKWY. STE.350
TEMPE, AZ 85282

CITY OF PHOENIX

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE 55

FILE NO. 55-548686

THRU 55-548693

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO DRILL A WELL	10.00	80.00
REG. NO. 55-548686 THRU 55-548693		
FILE NO. VARIOUS		

PAID

CHECK NO. 11972 FEE ACCOUNT NO. TOTAL \$ 80.00
CHIT NO. RECEIVED BY DB DATE 03-20-95
IPS 1821 - Rev 4/91

MAY 24 1995

OPERATIONS DIV

WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well

- 1 Owner Name City Of Phoenix (Aviation Dept.)
Address 3400 Sky Harbor Blvd. Phoenix AZ 85034
Street City State Zip
- 2 Driller Name Layne Environmental Services
Address 9002 S. Hardy Drive Tempe AZ 85284
Street City State Zip
- 3 Location 1N N/S 3E E/W 14 1/4 SE 1/4 NW 1/4 NW
Township Range Section 10-acre 40 acre 160 acre
- 4 Well Registration No. 55- 548687 (Required)
- 5 Permit No _____ (If issued)

DESCRIPTION OF WELL

- 6 Total depth of hole 180' ft
- 7 Type of casing SCH. 40 PVC
- 8 Diameter and length of casing 4 in from 0 to 45 in from _____ to _____
- 9 Method of sealing at reduction points N/A
- 10 Perforated from 45 to 105 from _____ to _____ from _____ to _____
- 11 Size of cuts .010 Number of cuts per foot 288
- 12 If screen was installed Length 60 ft. Diam 4 in Type PVC
- 13 Method of construction DRILLED
(drilled, dug, driven, bored, jetted, etc)
- 14 Date started 4 4 95
Month Day Year
- 15 Date completed 4 6 95
Month Day Year
- 16 Depth to water 55' ft (If flowing well, so state)
- 17 Describe point from which depth measurements were made, and give sea-level elevation if available
GROUND SURFACE
- 18 If flowing well state method of flow regulation _____
- 19 Remarks PW-2

DO NOT WRITE IN THIS SPACE
OFFICE RECORDRegistration No 55-548687File No A(1-3)14bdd

Received _____ By _____

Entered ENTERED JUN 6 1995 By _____

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If water is artesian, indicate depth at which encountered, and depth to which it rose in well.

[illegible]

I hereby certify that this well was drilled by me (or under my supervision) and that each and all statements herein contained are true to the best of my knowledge and belief.

Driller Name Layne Environmental Services

9002 S. Hardy Drive
Street

Tempe	AZ	85284	496-6500
City	State	Zip	Phone No

Date _____

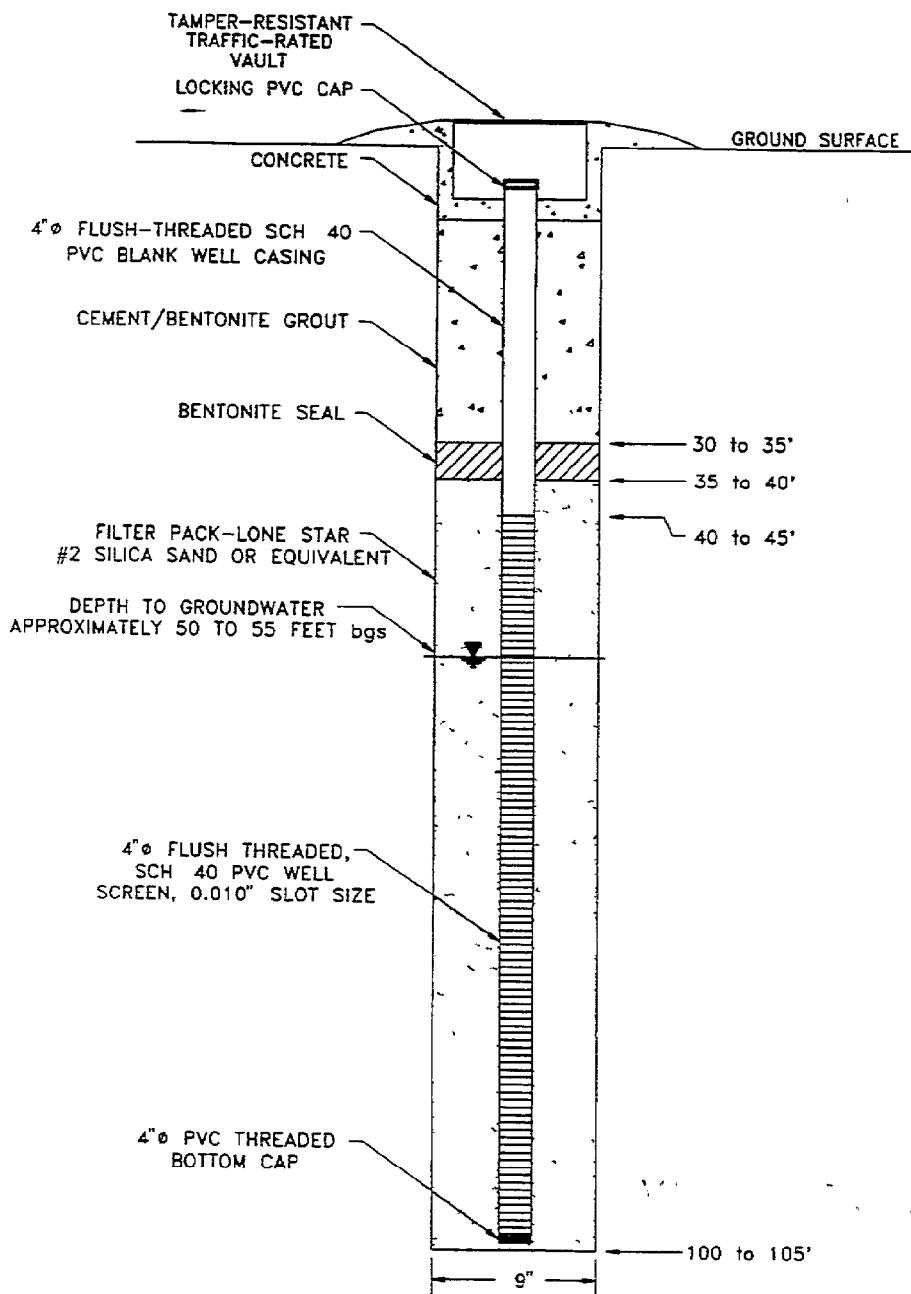
MW-1 DWG

frame base hatch gw lxt dlm

Drafted By TOTUM Graphics J. Olson
Desc 01 02 Std Upd

Created 4-26-94
10-27-94 By J.O

1994 EARTH TECH
Rev info Date



MAR 17 1995

NOT TO SCALE

EARTH TECH

PROJECT NO 923621-01
COP/SHIA WQARF

CITY OF PHOENIX
SKY HARBOR INTERNATIONAL AIRPORT
PROPOSED MONITOR WELL
CONSTRUCTION DIAGRAM

FIGURE 1

PWL-2

3/95

PW-2

Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well, a Notice of Intention to Drill shall be filed with the Department.

1. WELL LOCATION:

T. 10 N. R. 30 E. 14
Township Range Section

SE 1/4 NW 1/4 NW 1/4
10 ACRE 40 ACRE 160 ACRE

2. Position location of the well on the land

Latitude 33 0 26 '01 "

Longitude 112 0 1 '39 "

3 County: MARICOPA

4 Owner of the land of wellsite:

CITY OF PHOENIX
Name AVIATION DEPARTMENT
Address 3400 SKY HARBOR BLVD
City PHOENIX State AZ Zip 85034

5 Lessee of the land of wellsite:

Name N/A*
Address
City State Zip

6 Owner of well:

CITY OF PHOENIX
Name AVIATION DEPARTMENT
Address 3400 SKY HARBOR BLVD
City PHOENIX State AZ Zip 85034

7. Consulting Firm: EARTH TECH

Contact Person: SHARON LAGAS / MARTIN MINTER

Phone: (602) 894-8482

8. Purpose of well drilled pursuant to this notice

Monitor ☒

Piezometer ☐

9. If for deepening or modifying, Well Registration Number

55- N/A

10. Construction will start:

Month Day Year
~ APRIL 3 95

11. Period well will remain in

use ~ 10 Months Years

12. For monitoring wells, is pump equipment to be installed?

Yes ☐ No ☒

(a) If yes, design pump capacity

(b) What use will be made of the water

13. Drilling firm:

LAYNE ENVIRONMENTAL
Name
Address 900 S. HARDY
City TEMPE State AZ Zip 85284

DWR License No. 473

A-04, 088337
ROC License classification

14. Is the proposed wellsite within 100 feet of a septic tank system, sewage disposal area, landfill, hazardous waste facility, storage area of hazardous material or petroleum storage areas and tanks?

Yes ☐ No ☒

DO NOT WRITE IN THIS SPACE
OFFICE RECORD

File No. A(1-3)14BBD

Filed 3-17-95 By JH

Input ENTERED APR 5 1995

DUPLICATE

Mailed 3-29-95 By JH

Registration 55- 548687

AMA/INA PH

W/S 07 S/B 04

VARIANCE GRANTED

SPECIAL REQUIREMENT

16 Proposed method of abandonment of well after project is completed: IN ACCORDANCE WITH A.A.C. R12-15-811 AND R12-15-816.

17 Is this well to monitor existing contamination? NO Potential contamination YES Please explain: THIS WELL WILL ASSESS AN AREA OF POTENTIAL CONTAMINATION.

* N/A = NOT APPLICABLE

GENERAL INSTRUCTIONS

1 Fill out this form in **DUPLICATE** and send **WITH \$10.00 FEE** to 500 NORTH THIRD STREET, PHOENIX, AZ 85004

2 For specific instructions, limitations and conditions, see the reverse side of this form.

3 Must be signed by land owner or lessee.

4 Section §45-596(D), provides that the Director shall determine that all information required on form has been submitted. If not, the person filing will be notified and the drilling, deepening, or modification of the well may not proceed.

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I understand the conditions set forth on the reverse side of this form.

SCOTT MARS
Typed or Printed Name

Scott Mars for COP AV DEPT.
Signature [X] Land Owner [] Lessee of wellsite

3-17-95
Date

18. If construction plans have been coordinated with Arizona Department of Environmental Quality, who is the agency contact? N/A*
If construction plans have been coordinated with Arizona Department of Water Resources, who is the agency contact? N/A

19. WELL CONSTRUCTION PLAN

- a) Drilling method (mud rotary, hollow-stem auger, etc.) PERCUSSION HAMMER
- b) Borehole diameters: 9 inches from 0 feet to 105 feet.
_____ inches from _____ feet to _____ feet.
- c) Casing materials (PVC, steel, hollow-stem auger, etc.)
material Sch. 40 PVC diameter 4 inches from 0 feet to 45 feet
material _____ diameter _____ inches from _____ feet to _____ feet
- d) Method of sealing at reductions Non-Threaded
- e) Annular seal materials (cement, grout, etc.); method of placement (tremied, circulated)
material grout method TREMIE from 0 feet to 35 feet
material Bentonite method TREMIE from 35 feet to 40 feet
- f) Filter packs (state material):
material Long Star #2 Silica Sand from 40 feet to 105 feet
material _____ from _____ feet to _____ feet
- g) Perforations or screen specifications:
type Sch. 40 PVC 0.010 Slot from 45 feet to 105 feet
type _____ from _____ feet to _____ feet
- h) Method of well development (bail, air lift, surge) SURGE + BAIL
- i) Will surface or conductor casing extend above grade: Yes _____ No ✓

SEE ATTACHED
WELL CONSTRUCTION
DIAGRAM

- 20 Include detailed construction diagram showing expected water depth in feet below land surface, and details of vault, if specified.

*N/A= NOT APPLICABLE

CONDITIONS

- I Construction and abandonment standards for all wells shall be in accordance with A A C R12 15 811 and R12 15 816
- II Drilling of the well shall be completed within one (1) year after the date of Notice
- III A Well Driller Report, is required within 30 days of completion of drilling A Completion Report, is required to be filed with the Department within 30 days after installation of pump equipment for monitor wells
- IV Pump equipment may not be installed on a well drilled for piezometer purposes If a monitor well is pumped, pumping is limited to the maximum amount required for monitor purposes, but in no case may exceed 35 gallons per minute and an annual volume of 10 acre feet total
- V A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well shall be identified as such on the vault cover or at the top of the steel casing Identification information will include well registration number "
- VI Special construction standards required pursuant to A.A.C Rule R12-15-821: _____

Layne® Environmental Services

9002 S Hardy Drive • Tempe, Arizona 85284 • 602 496 6500 • Fax 602 496 4936

MAR 17 1995

March 17, 1995

Ms. Ellen Kane
Operations Division
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004-3903

RE: Request for Variance

Dear Ms. Kane:

On behalf of The Earth Technology Corporation, Layne Environmental Services would like to request a variance for the construction of one monitor well (PW-2), located at Township 1N, Range 3E, Section 14 for City of Phoenix - Aviation Department, in Maricopa County.

We request the following construction variances:

- * SCH 40 PVC casing will be used in lieu of the 20-foot steel surface casing.
- * The wells will be installed in sealed, flush-grade, traffic-rated vaults because above-grade protective casings would interfere with traffic flow.

Please feel free to contact me if you have any questions. Thank you for your attention to this Request for Variance.

Sincerely,

LAYNE ENVIRONMENTAL SERVICES



Eric J. Brue
Sales Coordinator



————— MONITORING WELL, HAZARDOUS WASTE & SOIL INVESTIGATION —————

ARIZONA DEPARTMENT OF WATER RESOURCES

Hydrology Division

Park Place

500 North Third Street, Phoenix, Arizona 85004

Telephone (602) 417-2448

Fax (602) 417-2401



FIFE SYMINGTON
Governor

RITA P PEARSON
Director

March 28, 1995

Layne Environmental Services
9002 South Hardy Drive
Tempe, Arizona 85284

ATTN: Eric J. Brue

**Re: Variance for Construction of Five Monitor Wells
Registration Numbers 55-548686 through 55-548690**

Dear Mr. Brue:

The Arizona Department of Water Resources received your request dated March 17, 1995, for a variance for construction of five monitor wells to be located in Maricopa County. The purpose of these wells will be to evaluate potential groundwater contamination.

The Arizona Department of Water Resources approves this request for the following variance:

- Thermoplastic casings (risers) with a watertight cap may be used in lieu of steel casings (R12-15-811.B.1).

The following *special requirements* are conditions for this variance (R12-15-821.):

- The wells shall be completed flush-to-ground with vandalproof, traffic-rated vaults per ASTM Standard Guide D5092, Section 8.9.2.3.
- The PVC inner casings (risers) shall comply with ASTM Standard Guide D5092, Section 6.5.
- The wells shall be constructed per the "Variance Granted" Notice of Intention to Drill.
- The wells shall be abandoned (decommissioned) per ASTM Standard Guide D5299, Section 7.3.8.

If you have any questions, please contact Abe Malek of my Staff at (602) 417-2400 ext.# 7335.

Sincerely,

Greg Wallace
Chief Hydrologist

GW/AM/tm

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N 3RD ST., PHOENIX, AZ. 85004

Telephone (602) 417-2470

Fax (602) 417-2401



FIFE SYMINGTON
Governor

RITA P PEARSON
Director

March 29, 1995

CITY OF PHOENIX (AVIATION DEPT.)

3400 SKY HARBOR BLVD.

PHOENIX, AZ. 85034

RE: Registration No. 55-548686 THRU 55-548690

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

A handwritten signature in cursive script that reads "Ellen Kane".
Ellen Kane

Groundwater Permit Specialist

RECEIPT

18462

THE EARTH TECHNOLOGY CORPORATION
1501 W. FOUNTAINHEAD PKWY. STE.350
TEMPE, AZ 85282

CITY OF PHOENIX

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE 55

FILE NO. 55-548686

THRU 55-548693

ITEM DESCRIPTION	RATE	AMOUNT
FILING FEE FOR NOI TO DRILL A WELL	10.00	80.00
REG. NO. 55-548686 THRU 55-548693		
FILE NO. VARIOUS		

PAID

CHECK NO. 11972 FEE ACCOUNT NO. _____ TOTAL \$ 80.00

CHIT NO. _____ RECEIVED BY DB DATE 03-20-95

**ARIZONA DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION**

500 North Third Street
Phoenix, Arizona 85004-3903
Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 55-548686 THRU 55-548687

AUTHORIZED DRILLER: LAYNE ENVIRONMENTAL SERVICES

LICENSE NO. 473

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)

CITY OF PHX (AVIATION DEPT.) 3400 SKY HARBOR BLVD

PHOENIX

AZ 85034

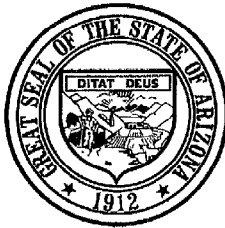
The well(s) is/are to be located in:

SE 1/4 NW 1/4 NW 1/4 Section 14 Township 1.0 NORTH Range 3.0 EAST
10 acre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT: 2

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON MAR 16TH, 1996

THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF
COMPLETION OF DRILLING.



**VARIANCE
GRANTED**


CHIEF, OPERATIONS DIVISION

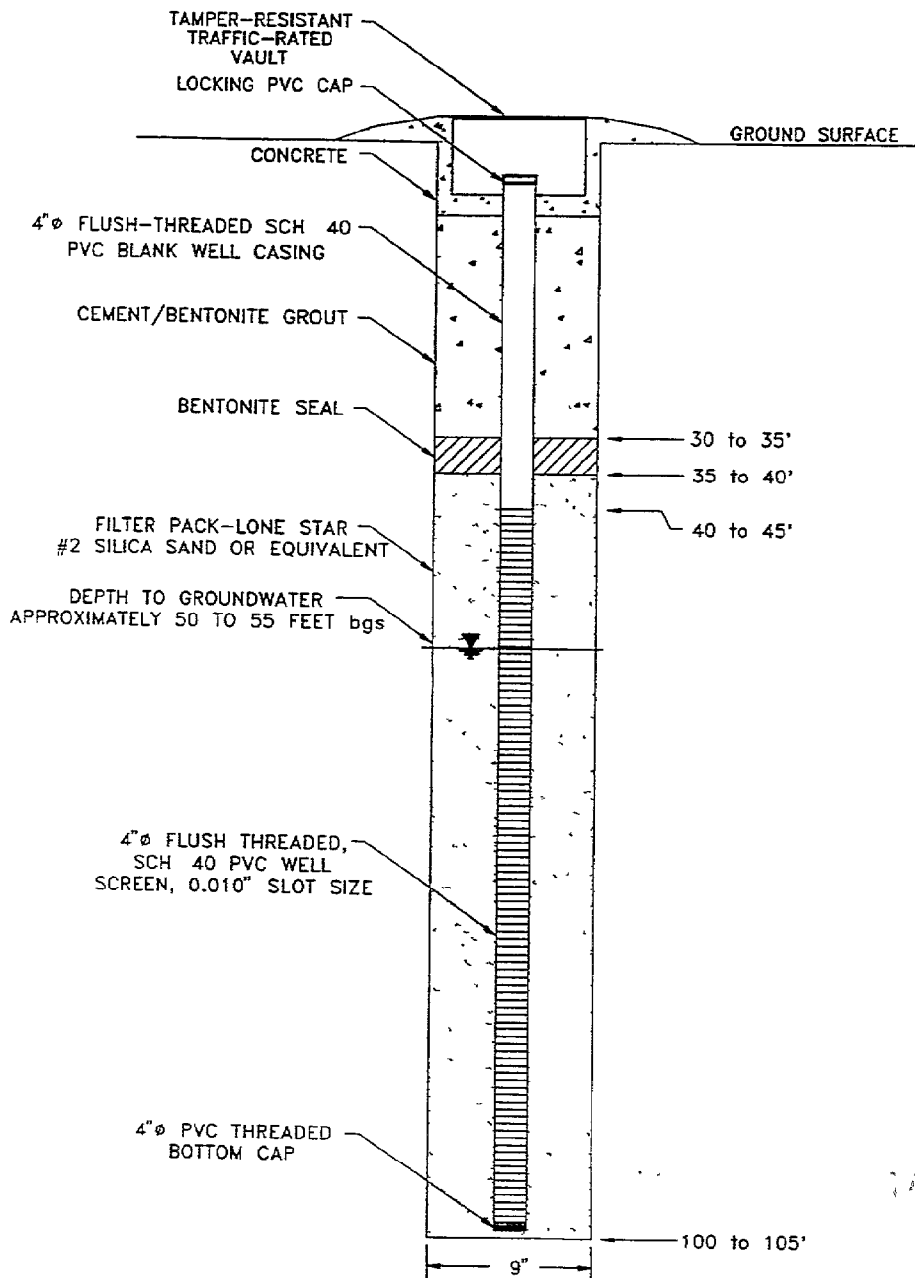
WP-1 DWG

frame base hatch gw lxt dlm

Drafted By TDTMM Graphics J Olson
Date 01 02 Sid Upd

Created 4-26-94
By JO

1994 EARTH TECH
Rev Info Date



MAR 17 1995

DATE

SPECIAL REQUIREMENT

NOT TO SCALE

EARTH TECH	PROJECT NO 923621-01
	COP/SHIA WQARF
CITY OF PHOENIX SKY HARBOR INTERNATIONAL AIRPORT PROPOSED MONITOR WELL CONSTRUCTION DIAGRAM	
FIGURE 1	3/95

PW-2