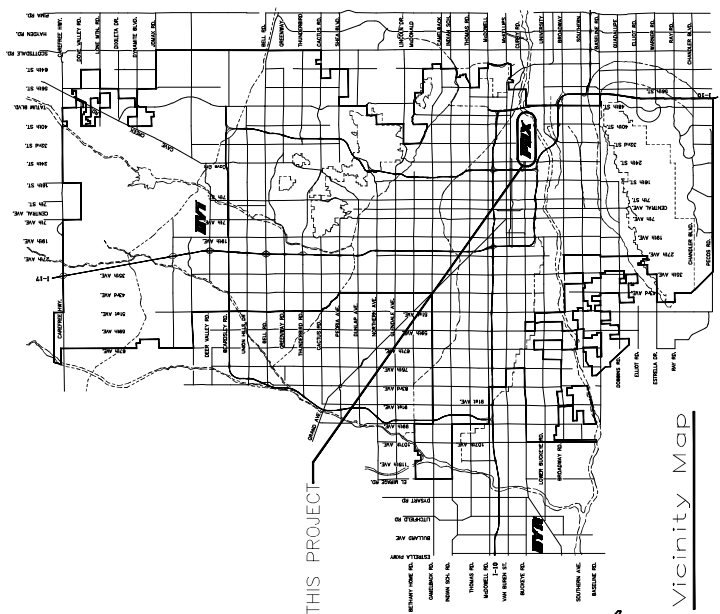


CITY OF PHOENIX AVIATION DEPARTMENT DESIGN & CONSTRUCTION SERVICES



PROJECT NAME
PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
WEST AIR CARGO RECONSTRUCTION

ADDRESS
3400 EAST SKY HARBOR BOULEVARD, PHOENIX, AZ 85034
PROJECT NUMBER
AV06000026 FAA
FAA AIP NUMBERS
3-04-0029-106-2023, 3-04-0029-107-2023



THIS PROJECT



Vicinity Map



MAYOR
KATE GALLEGO

VICE MAYOR
YASSAMIN ANSARI

CITY COUNCIL

- DISTRICT NO. 1 ANN O'BRIEN
- DISTRICT NO. 2 JIM WARING
- DISTRICT NO. 3 DEBRA STARK
- DISTRICT NO. 4 LAURA PASTOR
- DISTRICT NO. 5 BETTY GUARDADO
- DISTRICT NO. 6 KEVIN ROBINSON
- DISTRICT NO. 7 YASSAMIN ANSARI
- DISTRICT NO. 8 KESHA HODGE WASHINGTON

PHOENIX AVIATION ADVISORY BOARD

- VALENCIA FISHER, CHAIR
- SETH SCOTT, VICE CHAIR
- RUBEN ALONZO
- ANDREW M. COHN
- SANDRA FERNIZA

- VERMA PASTOR
- STEPHANIE FLEISCHMAN CHERNY
- RON PRICE
- BRIAN J. FOSTER
- CAMILO HENAO (EX-OFFICIO)

CITY MANAGER

JEFFREY BARTON

CITY ENGINEER

ERIC FROBERG, P.E.

DIRECTOR OF AVIATION SERVICES

CHAD R. MAKOVSKY

APPROVALS

DEPUTY AVIATION DIRECTOR
DESIGN & CONSTRUCTION SERVICES DIVISION

DATE _____

APPROXIMATE QUANTITIES

LINE NO.	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	C-100	CONTRACTOR QUALITY CONTROL (COQP)	LS	1
2	C-102-4.1	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL	LS	1
3	C-103	NOISE MITIGATION (48 MAXIMUM)	LS	1
4	SP-30.1	CONSTRUCTION SURVEY LAYOUT	ALLOW	1
5	SP-31.1	UNDERSOIL 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	IRF FIELD OFFICE	ALLOW	1
8	SP-33.1	EXISTING UTILITY RELOCATIONS (ALLOWANCE)	ALLOW	1
9	SP-36.8.1	AIRPORT SAFETY AND SECURITY (M-003)	LS	497
10	SP-40.1	CONSTRUCT TEMPORARY ASPHALT PAVEMENT TRANSITION	SY	497
11	SP-41.1	CUT AND CAP EXISTING MONITORING WELL	EA	2
12	P-101-5.1	REMOVE EXISTING ASPHALT PAVEMENT, FULL DEPTH (UP TO 10" DEPTH)	SY	93572
13	P-101-5.2	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-191-4.1	CLEARING AND GRUBBING	LS	1
20	P-192-4.1	UNCLASSIFIED EXCAVATION	CY	87653
21	P-209-5.2	CRUSHED AGGREGATE BASE COURSE (10" THICK)	SY	6424
22	P-209-5.1	CRUSHED AGGREGATE BASE COURSE (6" THICK)	SY	1807
23	P-401-8.1	ASPHALT CONCRETE SURFACE COURSE	TON	1807
24	P-401-8.2	ASPHALT CONCRETE BASE COURSE	TON	1807
25	P-601-8.1	CONCRETE PAVEMENT	SY	87654
26	P-602-5.1	BITUMINOUS TACK COAT	TON	50
27	P-604-6.1	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1/2 INCH WIDE)	LF	78310
28	P-604-6.2	COMPRESSION JOINT SEALS FOR CONCRETE PAVEMENT (1 INCH WIDE)	LF	1868
29	P-605-5.1	JOINT SEALING FILLER	SY	5700
30	P-620-5.1a	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	SF	12874
31	P-620-5.1b	MULTIPLE-WAY (9) - 2" CONDUIT, CONCRETE ENCASED, RETROFIT IN EXISTING ASPHALT	LF	54132
32	P-620-5.3a	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-791-5.1	CONSTRUCT NEW CONCRETE STORM DRAIN MANHOLE APRON	EA	2
39	D-791-5.2	CONSTRUCT NEW CONCRETE HANDHOLE APRON	EA	1
40	D-791-5.3	CONSTRUCT NEW FAA COMMUNICATION MANHOLE APRON	EA	1
41	D-791-5.4	CONSTRUCT NEW INLET FRAME, GRATE AND APRON	EA	8
42	L-100-5.2	REMOVE AND SALVAGE EXISTING TAIWAY EDGE LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN	EA	9
43	L-100-5.3	EXCAVATE AND REMOVE EXISTING HANDHOLE	EA	3
44	L-100-5.4	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR	EA	1125
45	L-100-5.5	EXCAVATE AND REMOVE EXISTING CONDUIT, CONDUIT TO REMAIN	LF	127
46	L-100-5.6	TEMPORARY AIRFIELD LIGHTING CIRCUIT JUMBERS	LS	1
47	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	4
48	L-100-5.8	APRON LIGHTING CONTROL/CONTRACTOR CABINET WITH PHOTOCELL, NEMA 3R, OUTDOOR RATED COMPLETE	EA	2
49	L-108-5.1	L-82A, TYPE C, 2 1/2" #8 AVG. SKY CABLE, #6 BARE COPPER GROUND	LF	855
50	L-108-5.2	2-#4, #4 NEUTRAL, #4 GROUND THIN, 600V CABLE (APRON LIGHTING)	LF	3050
51	L-108-5.3	SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED RETROFIT IN EXISTING ASPHALT	LF	85
52	L-110-5.1	MULTIPLE-WAY (1) - 2" CONDUIT, CONCRETE ENCASED	LF	675
53	L-110-5.2	MULTIPLE-WAY (2) - 2" CONDUIT, CONCRETE ENCASED	LF	463
54	L-110-5.3	MULTIPLE-WAY (4) - 2" CONDUIT, CONCRETE ENCASED	LF	420
55	L-110-5.4	MULTIPLE-WAY (6) - 2" CONDUIT, CONCRETE ENCASED	LF	85
56	L-110-5.5	MULTIPLE-WAY (8) - 2" CONDUIT, CONCRETE ENCASED, RETROFIT IN EXISTING ASPHALT	LF	60
57	L-110-5.6	MULTIPLE-WAY (9) - 2" CONDUIT, CONCRETE ENCASED, RETROFIT IN EXISTING ASPHALT	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 (13) - 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 AIRBRATT RATED LD	EA	4
62	L-115-5.2	NEW 18670 16" DIAMETER JUNCTION CAN WITH BLANK COVER	EA	1
63	L-115-5.3	NEW SIZE 8 BRACED RATED PULLBOX	EA	2
64	L-125-5.1	WITH CONVERSION RING	EA	9

INDEX OF SHEETS

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3	GI-003	GENERAL NOTES
4	GI-004	LEGEND & ABBREVIATIONS
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6	GI-100	SURVEY CONTROL PLAN
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8	GI-102	CONSTRUCTION PHASING PLAN PHASE 1
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12	GI-200	OVERALL CONSTRUCTION PHASING PLAN
13	GI-201	STORMWATER POLLUTION PREVENTION PLAN
14	GI-202	STORMWATER POLLUTION PREVENTION PLAN
15	GI-203	STORMWATER POLLUTION PREVENTION PLAN
16	GI-204	STORMWATER POLLUTION PREVENTION PLAN
17	GI-300	STORMWATER POLLUTION PREVENTION DETAILS
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19	GI-302	OVERALL CIVIL DEMOLITION PLAN
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108	GI-189	PAVING & JOINT DETAILS



PHOENIX SKY HARBOR INTERNATIONAL AIRPORT RECONSTRUCTION WEST AIR CARGO

City of Phoenix, Aviation Department
 2022-2023 SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY AND NOT TO BE REPRODUCED OR COPIED WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

ISSUED FOR BID / SUBMISSIONS / DATE

Drawn by: A. SANTILLI
Checked by: C. JAHVEN
Date: 04/18/2023
Dwg scale: AS SHOWN
Proj No: AV06000226 FAA

QUANTITY SUMMARY & SHEET INDEX

SHEET OVERVIEW TITLE

G1-002

SHEET NUMBER

SHEET 2 OF 108



GENERAL NOTES:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
- 2. CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION'S (FAA) STANDARDS AND SPECIFICATIONS, AND STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA.
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY, AND STATE TRAFFIC REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA.
- 4. THESE PLANS SHOW ITEMS TO BE CONSTRUCTED UNDER THIS CONTRACT. ACTUAL FIELD CONDITIONS, SHAGS, LOCATIONS AND OTHER FEATURES MAY DIFFER FROM CONDITIONS INDICATED IN THESE DOCUMENTS.
- 5. HAIL ROUTES - THE LOCATION OF HAIL ROUTES ON THE AIRPORT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE FAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE FAA.
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- 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.
- 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.
 - 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 COURSE.
- 39. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, CONSTRUCTION EQUIPMENT (IE. BACKHOES, EXCAVATORS, GENERATORS, COMPACTORS, CRANES, ETC.) MUST BE OPERATED WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAIL ROUTES. SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG, EACH CHECKERBOARD COLOR BEING A SQUARE WHEN OPENING DURING PERIODS OF DARKNESS OR AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
- 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.
- 41. CONTRACTOR SHALL PROVIDE TRAINED FLAGMEN TO COORDINATE AND CONTROL CONSTRUCTION ACTIVITIES. FLAGMEN SHALL BE VISIBLE AT ALL TIMES. FLAGMEN SHALL BE WEARING HIGH VISIBILITY VESTS AND CARRIES RED AND WHITE TRAFFIC CONTROL SIGNS. FLAGMEN SHALL BE TRAINED IN THE OPERATION OF AIR TRAFFIC CONTROL. TAXIS AND RUNWAYS ONLY UPON SPECIFIC AUTHORIZATION BY AIR TRAFFIC CONTROL. THIS AUTHORITY IS ALSO PROVIDED FOR CONTROLLING EQUIPMENT ENTERING AND LEAVING THE PROJECT AREA.
- 42. THE CONTRACTOR SHALL AT NO TIMES CROSS ANY ACTIVE RUNWAY OR TAXIWAY UNLESS ESCORTED BY COP. NO ESCORT VIOLATION COULD RESULT IN PERMANENT EJECTION FROM THE AIRPORT PROPERTY AND/OR THE ASSESSMENT OF FINES.
- 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.
- 44. CONSTRUCTION EQUIPMENT SHALL NOT PENETRATE THE HEIGHT RESTRICTIONS FOR FAR PART 47.
- 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.
- 46. NO ADJUSTMENT FOR ADDITIONAL COMPENSATION AND TIME WILL BE MADE FOR TIME LOST IN WORK AREAS CONTIGUOUS TO TAXIWAYS AND RUNWAYS DUE TO AIRPORT TRAFFIC.
- 47. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXAMINATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS, IF APPLICABLE.
- 48. ANY PAINT USED FOR NEW PAVEMENT MARKINGS SHALL BE LEAD FREE CERTIFIED. CONTRACTOR TO SUBMIT MATERIAL SAFETY DATA SHEET TO THE AIRPORT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 49. BEFORE ANY WORK COMMENCES AN ASBESTOS AND LEAD SURVEY NEEDS TO BE COMPLETED. THE CONTRACTOR SHALL CONTACT LAURA JARDEANU AT 602-273-4200 APPROXIMATELY 3-4 WEEKS PRIOR TO CONSTRUCTION ACTIVITIES TO HAVE THE ASBESTOS AND LEAD SURVEY DONE. BEFORE CONSTRUCTION COMMENCES THE CONTRACTOR SHALL NOTIFY LAURA JARDEANU FOR ANY SUBSURFACE DISTURBANCE. CONTRACTOR SHALL ALSO NOTIFY LAURA JARDEANU FOR ANY SUBSURFACE MATERIALS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL ASSUME ALL SURFACE DISTURBANCES ARE ASBESTOS UNLESS OTHERWISE NOTIFIED.
- 50. IF SOILS TO BE REMOVED FROM THE AIRPORT, THEN PRIOR TO ANY WORK COMMENCING, THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). SOIL SAMPLING COMPLETED. THE SOIL SHALL BE SAMPLED BY COP ENVIRONMENTAL ENGINEERS. CONTRACTOR SHALL SUBMIT TO THE AIRPORT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL SUBMIT TO THE AIRPORT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL SUBMIT TO THE AIRPORT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 51. IF THE PROJECT WILL DISTURB MORE THAN 1/10 OF AN ACRE, THE CONTRACTOR SHALL OBTAIN A MARICOPA COUNTY CONTROL PERMIT PRIOR TO CONSTRUCTION.
- 52. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT FROM AEDD 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.
- 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.
- 54. STORM DRAIN MAINTENANCE, AND SANITARY SEWER MANHOLES IF REQUIRED.
- 55. SERVICE ROAD ACCESS SHALL BE MAINTAINED AT ALL TIMES. ALIGNMENT FOR SERVICE ROAD DETOURS SHALL BE APPROVED BY AIRPORT OPERATIONS AND SECURITY.

TRAPE CONSULTING



NO	REVISIONS / SUBMISSIONS	DATE

PHOENIX SKY HARBOR INTERNATIONAL AIRPORT WEST AIR CARGO RECONSTRUCTION FAA AVO6000226 FAA

City of Phoenix Aviation Department
Checked By: J. HAVERTY
Date: 04/18/2023
Dwg Scale: AS SHOWN
No. 10
10-04-0029-106-2023

Designed By: C. SHAH
Drawn By: A. SANTILLI
Checked By: J. HAVERTY
Date: 04/18/2023
Dwg Scale: AS SHOWN
No. 10
10-04-0029-106-2023

GENERAL NOTES



G1-003

SHEET NUMBER

SHEET 3 OF 108



ABBREVIATIONS	DEFINITIONS
AT	INSTRUMENT LANDING SYSTEM
LS	HIGH POINT
HP	GALVANIZED
QALV	GAL
GA	GAUGE
EVC	END VERTICAL CURVE
ESMT	EASEMENT
CONSTR	CONSTRUCTION
CFS	CUBIC FEET PER SECOND
FC	BEGIN VERTICAL CURB
BTM	BOTTOM
BC	BEGIN CURVE
ATCT	AIR TRAFFIC CONTROL TOWER
APPROX	APPROXIMATE
ARFF	AIRPORT RESCUE AND FIRE FIGHTING
AOA	AIR OPERATIONS AREA
ALT	ALTERNATE
CTB	CEMENT TREATED BASE
SCHD	STORM WATER POLLUTION PREVENTION PLAN
PSHA	PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
KV	KILOVOLT
NAV	NORTH AMERICAN VERTICAL DATUM
CLSM	CONTROLLED LOW STRENGTH MATERIAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NOTAM	NOTICE TO AIRMAN
TBM	TEMPORARY BENCH MARKS
COP	CITY OF PHOENIX
PI	POINT OF INTERSECTION
PCC	PORTLAND CEMENT CONCRETE
PCPP	PORTLAND CEMENT CONCRETE PAVEMENT
PETRO	PETROLEUM
PT	POINT OF TANGENCY
PMI	POINT OF VERTICAL INTERSECTION
CPM	CRITICAL PATH METHOD
ADDO	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
ST	SQUARE FEET OR SQM-FLUSH
STD	STANDARD
VC	VERTICAL CURVE
V OR VERT	VERTICAL
TOFA	TAXIWAY OBJECT FREE AREA
N.O.I.	NOTICE OF INTENT
NO.I.	NOTICE OF INTENT
SIDA	SECURITY IDENTIFICATION DISPLAY AREA
DVI	DEER VALLEY AIRPORT
CPM	CRITICAL PATH METHOD

ABBREVIATIONS	DEFINITIONS
7L/2R	RUNWAY DESIGNATION
ABC	AGGREGATE BASE COURSE
AC	ASPHALTIC CONCRETE
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
AP	AIRPORT IMPROVEMENT PROGRAM
APS	ARIZONA PUBLIC SERVICE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
CL OR C	CENTER LINE
C TO C	CENTER TO CENTER
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CF OR CU FT	CUBIC FEET
CY	CUBIC YARDS
CZ	CLEAR ZONE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
D ₅₀	DIAMETER OF 50% SIEVE SIZE
E	EAST OR EASTING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EX OR EXST	EXISTING
FAA	FEDERAL AVIATION ADMINISTRATION
FIN	FINISHED
FL OR L	FLOW LINE
FT	FOOT
GPM	GALLONS PER MINUTE
D	INSIDE DIAMETER
IE	INVERT ELEVATION
JB	JUNCTION BOX
L	LENGTH OR LEFT
LBS	POUNDS
LF	LINEAL FOOT
LS	LUMP SUM
MAX	MAXIMUM
M&C	MATERIALS AND CONSTRUCTION OF GOVERNMENTS
MANHOLE	MANHOLE
MIN	MINIMUM
N	NORTH OR NORTHING
NO.	NUMBER
NPI	NON-PAV-ITEM
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
CC	ON CENTER
OD	OUTSIDE DIAMETER
CEZ	CRASHLE FREE ZONE
PROPP	PROPOSED
PVC	POLYVINYL CHLORIDE
PAVT	PAVEMENT
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
REMF	REINFORCING
ROFA	RUNWAY OBJECT FREE AREA
ROW	RIGHT-OF-WAY
RPT	RUNWAY PROTECTION ZONE
RSA	RUNWAY SAFETY AREA
RT	RIGHT
RWY	RUNWAY
S	SOUTH OR SLOPE
SAL	SAFETY AREA LIMITS
SD	STANDARD DETAIL OR STORM DRAIN
SECT	SECTION
SHT	SHEET
SPECS	SPECIFICATIONS
STA	STATION
SY	SQUARE YARDS
T	TANGENT LENGTH
TSK	TAXIWAY SAFETY AREA
TYP	TYPICAL
UG	UNDERGROUND
VCP	VITRIFIED CLAY PIPE
W	WEST OR WATER
WT	WEIGHT
#	REPAIR SIZE NUMBER

DESCRIPTION	EXISTING	PROPOSED
CONCRETE SIGN BASE	---	---
RUNWAY/TAXIWAY EDGE LIGHT	⊙	⊙
FLUSH RUNWAY/TAXIWAY EDGE LIGHT	⊙	⊙
RUNWAY GUARD LIGHT	⊙	⊙
SANITARY SEWER AND MANHOLE	SS	SS
STORM DRAIN, MANHOLE & INLET	SS	SS
RUNWAY/TAXIWAY CENTERLINE	---	---
CHAIN LINK FENCE	---	---
MAJOR CONTOUR LINES	1125	1125
MINOR CONTOUR LINES	---	---
FIBER OPTIC	FO	FO
GRADE BREAK	---	---
FLOW LINE	---	---
APS MANHOLE	⊙	⊙
MONITORING WELL	⊙	⊙
WATER LINE	W	W
TELEPHONE	CU	CU
GAS LINE	G	G
FAA	---	---
ELECTRICAL	---	---
RUNWAY SAFETY AREA	---	---
TAXIWAY SAFETY AREA	---	---
CONSTRUCTION NOTE	---	---
SWPPP NOTE	---	---
REFERENCE NOTE OR STORM DRAIN CONSTRUCTION NOTE	---	---
ADJUSTMENT/REMOVAL/DEMOLITION NOTE	---	---
SPOT ELEVATION	---	---
SPOT ELEVATION-CATCH-BASIN GRATE	---	---
SAWCUT FULL DEPTH AND MATCH-EXISTING	---	---
MATCH-EXISTING	---	---

ABBREVIATIONS	DEFINITIONS
7L/2R	RUNWAY DESIGNATION
ABC	AGGREGATE BASE COURSE
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ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
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IE	INVERT ELEVATION
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ROW	RIGHT-OF-WAY
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RSA	RUNWAY SAFETY AREA
RT	RIGHT
RWY	RUNWAY
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SD	STANDARD DETAIL OR STORM DRAIN
SECT	SECTION
SHT	SHEET
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STA	STATION
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TYP	TYPICAL
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W	WEST OR WATER
WT	WEIGHT
#	REPAIR SIZE NUMBER



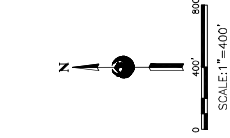
NO	ISSUED FOR	DATE

PHX DVT BYR
 CITY OF PHOENIX AIRPORT DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 AV06000026 FAA**

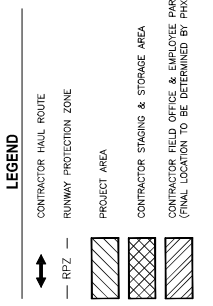
APR NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAN

PROJECT LAYOUT PLAN

SHEET NUMBER:
GI-401
 SHEET 5 OF 108



- 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 AIRPORT OPERATIONS TO 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 M-003 PRIOR TO ANY HAULING ACTIVITIES.



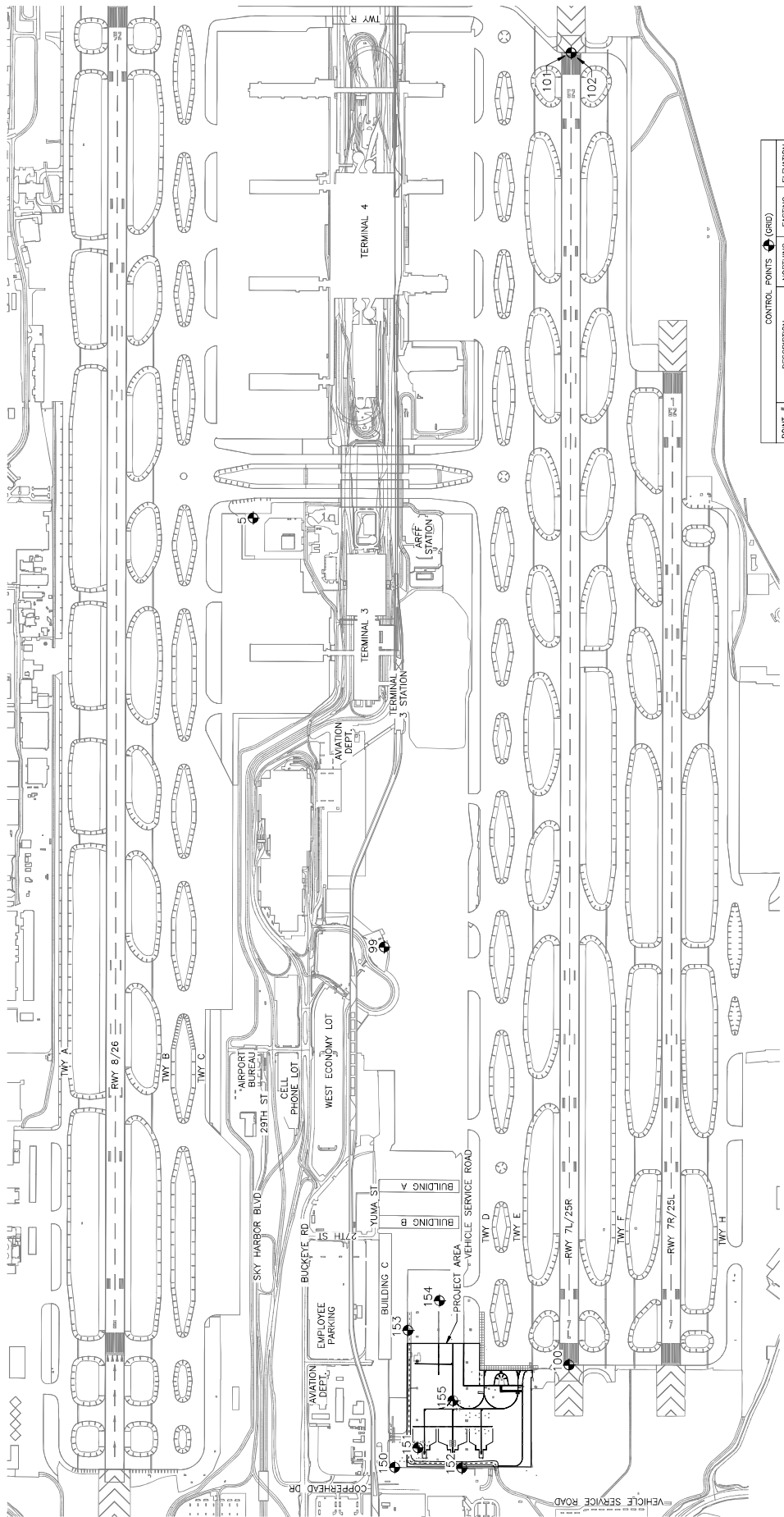


SURVEY CONTROL PLAN

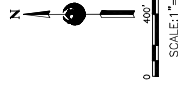
Designed by: C. SHAH
 Drawn by: A. SANTILLI
 Checked by: C. JAHVERI
 Date: 04/18/2023
 Dwg scale: AS SHOWN
 AIR NO. 2-04-0029-106-2023

**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**

PER CITY OF PHOENIX CITY CODE CHAPTER 22, 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.



POINT #	DESCRIPTION	CONTROL POINTS (GRID)		ELEVATION
		NORTHING	EASTING	
5	FOUND BRASS CAP FLUSH	886994.11	673056.02	1123.46
99	SET MAG NAIL	885965.19	668888.25	1117.05
100	FIDUCIAL 7L	884514.52	666407.99	1103.12
101	FIDUCIAL 25R	884497.14	676707.66	1133.93
102	FIDUCIAL 25R	884497.16	676707.30	1133.89
150	SET MAG NAIL	885700.70	665757.53	1108.37
151	SCRIBED "X"	885355.50	66601.05	1109.68
152	SET MAG NAIL	885776.07	666912.83	1109.48
154	SCRIBED "X"	88531.71	666912.83	1109.31
155	SET X ON 8" CONC PATCH	885425.39	666128.61	1108.31



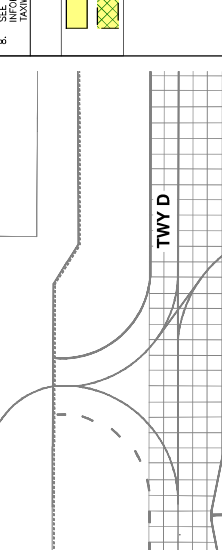
SURVEY CONTROL NOTES
 HORIZONTAL DATUM: NAD 83 ARIZONA STATE PLANE, CENTRAL ZONE.
 1,000,480.259 FEET FOR THE AZTEC AIRPORT CONTROL PLAN DATED 9/27/01.
 VERTICAL DATUM: NAVD83
 BENCHMARK: AZTEC CONTROL POINT #5 A BRASS CAP FLUSH.
 ELEVATION= 1123.46

GENERAL NOTES

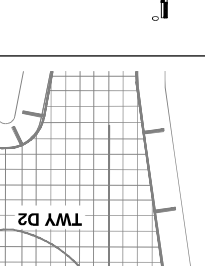
- UNLESS OTHERWISE NOTED, ALL REFERENCES TO PHASES ARE APPLICABLE TO EACH PHASE. PHASES ARE INDICATED WITH LETTERED PREFIXES (IE. 1A, 2B, ETC).
- SCHEDULE OF WORK AND SEQUENCE OF CONSTRUCTION PHASES SHALL BE COORDINATED WITH PSHA.
- CONTRACTOR SHALL NOT COMMENCE WORK AT THE AIRPORT UNTIL THE APPROVED DATE OF COMMENCEMENT IS COORDINATED WITH PSHA FOR SCHEDULING OF WORK ACTIVITIES.
- CONTRACTOR SHALL PROVIDE SUFFICIENT FLAG PERSONS TO MAINTAIN TRAFFIC CONTROL AND TO PREVENT AIRCRAFT FROM ENTERING CONSTRUCTION ZONES. FLAG PERSONS SHALL BE TRAINED AND EQUIPPED TO INTERRUPT TRAVEL OF AIRCRAFT TO AND FROM THE GATES DURING CONSTRUCTION. FLAG PERSONS SHOWN ON THESE PLANS SHALL BE TRAINED AND EQUIPPED TO INTERRUPT TRAVEL OF AIRCRAFT TO AND FROM THE GATES DURING CONSTRUCTION. FLAG PERSONS SHALL BE TRAINED AND EQUIPPED TO INTERRUPT TRAVEL OF AIRCRAFT TO AND FROM THE GATES DURING CONSTRUCTION. FLAG PERSONS SHALL BE TRAINED AND EQUIPPED TO INTERRUPT TRAVEL OF AIRCRAFT TO AND FROM THE GATES DURING CONSTRUCTION.
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LEGEND

- PHASE WORK LIMITS
- PHASE WORK LIMITS (WITH TAILLAINE/RUNWAY CLOSURE(S))



KEY MAP
 NTS





NO.	ISSUED FOR RFD	REVISIONS / SUBMISSIONS	DATE

APR NO. 3
Dwg No: AV06000026
Date: 04/18/2023
Checked by: C. JAHVET
Drawn by: A. SANTILLI
Designed by: C. SHAH
2-04-0029-106-2023
2-04-0029-106-2023

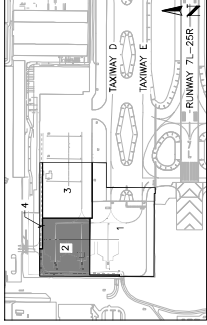
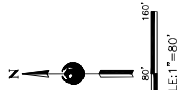
SHEET OVERVIEW TITLE
SHEET NUMBER
GC-102
SHEET 9 OF 108

PHASING NOTES

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

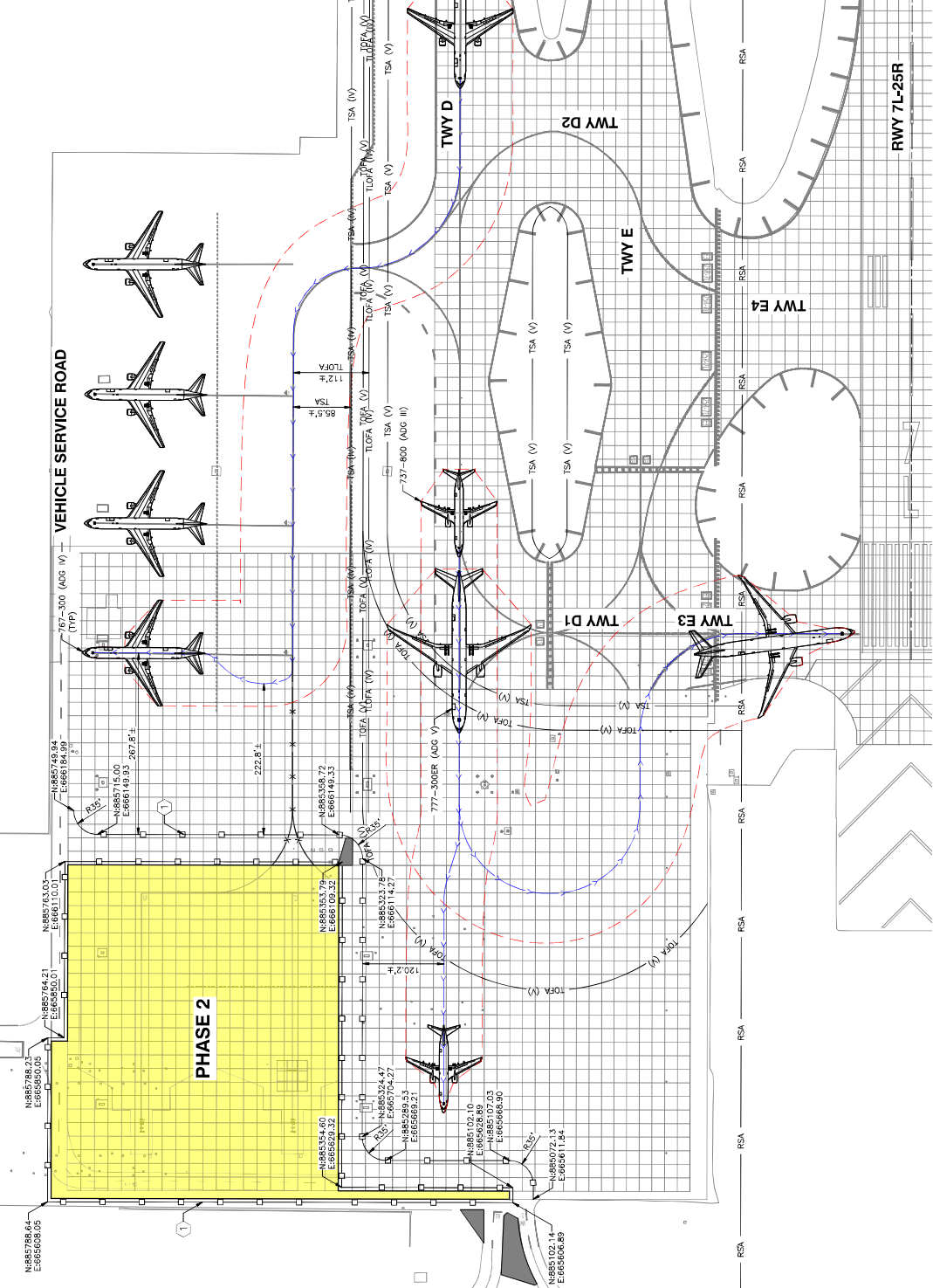
NOTES

PHASE 2 ELEMENTS:
PHASE 2 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFING, BARRICADE INSTALLATION, AC AND FCC PAVEMENT CONSTRUCTION, OBSTRUCTION REMOVAL, SIGNAGE, UTILITY INSTALLATION, AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS.
AREAS CLOSED TO AIRCRAFT OPERATIONS:
PHASE 2 ACTIVITIES WILL BE CLASSIFIED AS TO ALL AIRCRAFT OPERATIONS. AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 2 WORK AREA.
DURATION OF CLOSURES:
PHASE 2 ACTIVITIES WILL BE CLASSIFIED AS TO ALL AIRCRAFT OPERATIONS. AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 2 WORK AREA.
TAXI ROUTES ARE UNCHANGED.
AREF ACCESS ROUTES:
LIMITS WILL BE MAINTAINED AT ALL TIMES.
CONSTRUCTION STAGING, DISPOSAL, AND CLEANUP AREAS ARE IDENTIFIED IN THIS PLAN.
THERE IS NO ANTICIPATED IMPACT TO NAVIGATORS DURING THIS PHASE OF CONSTRUCTION.
NO LIGHTING, MARKINGS, AND SIGNING CHANGES ARE ANTICIPATED FOR THIS PHASE.
AVAILABLE RUNWAY LENGTH AND/OR REDUCED RSA/RSD/A TO REFLECT REDUCED USE.
THE FULL LENGTH OF RUNWAY 7L-25R IS AVAILABLE.
REQUIRED HAZARD MARKING, LIGHTING, AND SIGNING:
LOW PROFILE BARRICADES WITH RED (STEADY OR FLASHING) LIGHTS AND SIGNAGE ARE REQUIRED TO BE INSTALLED TO THE 10-FOOT-HEIGHT MARKING LIGHTING EXISTING 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.



LEGEND

	PHASE WORK LIMITS
	TEMPORARY ASPHALT
	AIRCRAFT MOVEMENT
	AIRCRAFT MOVEMENT WINGTIIP LIMITS
	10" HIGH, LOW PROFILE BARRICADE-TYPE 1 PER DETAIL A, SHEET GC-501
	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS



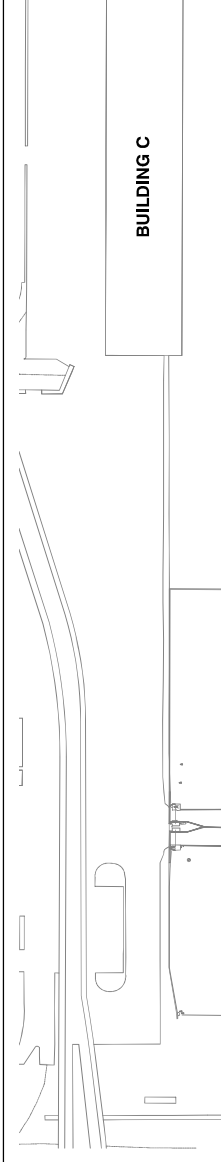
NO.	DESCRIPTION
1	INSTALL TYPE 1 BARRICADE
2	INSTALL VERTICAL BARRICADE

LEGEND

PHASE WORK LIMITS
 PHASE 3 WORK LIMITS

ACRAFT MOVEMENT
 ACRAFT MOVEMENT

ACRAFT MOVEMENT WINGTIP LIMITS
 10' HIGH, LOW PROFILE BARRICADE—TYPE 1 PER DETAIL A, SHEET GC-501



PHASING NOTES

NO. ISSUED FOR BID / SUBMISSIONS / DATE

NO. REVISIONS / SUBMISSIONS / DATE

NOTES

PHASE 3 ELEMENTS:

PHASE 3 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFING, GRADING, CONSTRUCTION OF CURBS, SIDEWALKS, UTILITY INSTALLATION AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS, AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS.

AREAS CLOSED TO AIRCRAFT OPERATIONS:

PHASE 3 WORK AREAS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 3 WORK AREA.

PHASE 3 WORK AREAS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 3 WORK AREA.

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PHASE 3 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFING, GRADING, CONSTRUCTION OF CURBS, SIDEWALKS, UTILITY INSTALLATION AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS, AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS.

AREAS CLOSED TO AIRCRAFT OPERATIONS:

PHASE 3 WORK AREAS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 3 WORK AREA.

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PHOX DVT BYR

CITY OF PHOENIX AIRPORT DEPARTMENT

PHOENIX SKY HARBOR
 WEST AIR CARGO
 INTERNATIONAL AIRPORT
 AV06000026 FAA

DESIGNED BY: C. SHAW
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 AIR NO. 2-04-0029-106-2023

PHASE 3 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFING, GRADING, CONSTRUCTION OF CURBS, SIDEWALKS, UTILITY INSTALLATION AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS, AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS.

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PHASE 3 WORK AREAS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS ON THE AIRPORT TO MAINTAIN PROPER CLEARANCE FROM PHASE 3 WORK AREA.

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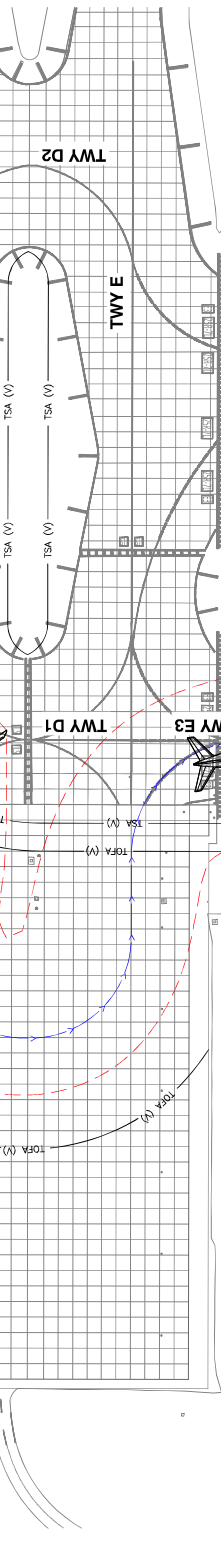
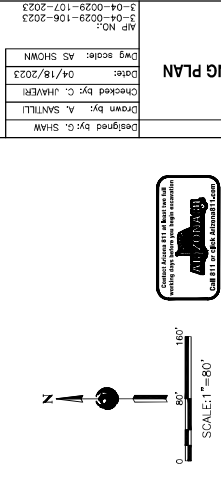
PHASE 3 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFING, GRADING, CONSTRUCTION OF CURBS, SIDEWALKS, UTILITY INSTALLATION AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS, AND UTILITY REMOVALS, INSTALLATIONS AND ADJUSTMENTS.

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CONSTRUCTION PHASING PLAN
 PHASE 3

DESIGNED BY: C. SHAW
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 AIR NO. 2-04-0029-106-2023

SHEET OVERVIEW TITLE

SHEET NUMBER: **GC-103**

SHEET OF 108

CONSTRUCTION PHASING PLAN
 PHASE 3

DESIGNED BY: C. SHAW
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 AIR NO. 2-04-0029-106-2023

SHEET OVERVIEW TITLE

SHEET NUMBER: **GC-103**

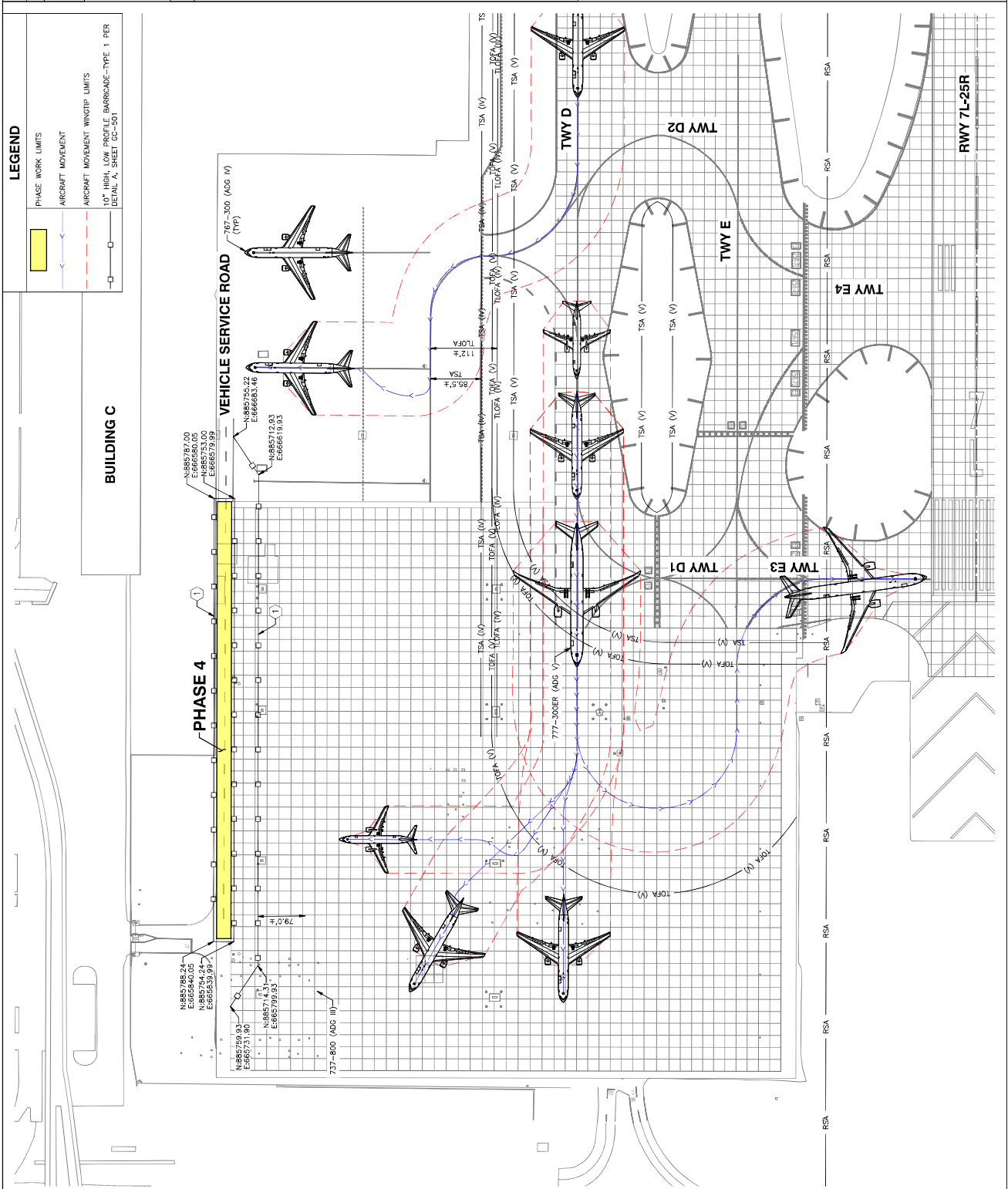
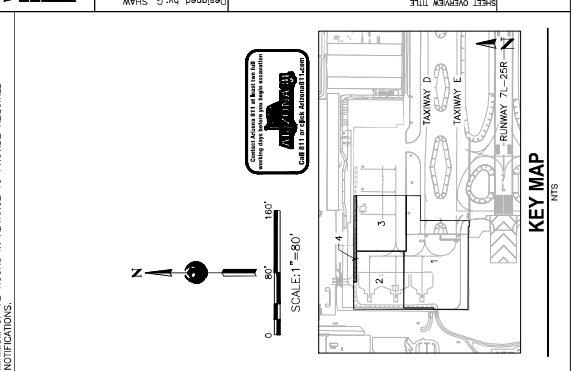
SHEET OF 108

PHASING NOTES

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

NOTES

PHASE 4 ELEMENTS:
 PHASE 4 ACTIVITIES GENERALLY CONSIST OF PAVEMENT SURFACING, UTILIZATION AND INSTALLATION, AND AC PAVEMENT CONSTRUCTION. AREAS CLOSED TO AIRCRAFT OPERATIONS:
 APRON AREA WITHIN PHASE 4 WORK LIMITS WILL BE CLOSED TO ALL AIRCRAFT OPERATIONS. CONTRACTOR SHALL 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 AOG USE; TAXI ROUTES ARE UNCHANGED.
 AOG 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, DISPOSAL, AND CLEANOUT AREAS ARE IDENTIFIED ON SHEET G-401.
 IMPACTS TO AIRWAYS:
 AS ANTICIPATED IMPACT TO AIRWAYS DURING THIS PHASE OF CONSTRUCTION.
 NO LIGHTING, MARKING, AND SIGNING CHANGES ARE ANTICIPATED FOR THIS PHASE.
 REQUIRED HAZARD MARKING, LIGHTING, AND SIGNING:
 REQUIRED HAZARD MARKING AND/OR REDUCED TSA/TOFA TO REFLECT REDUCED AOG USE.
 THE FULL LENGTH OF RUNWAY 7L-P/R IS AVAILABLE.
 REQUIRED HAZARD MARKING, LIGHTING, AND SIGNING:
 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 2 HOURS IN ADVANCE TO PROVIDE REQUIRED NOTIFICATIONS.





NO.	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

PHX DOT BYM
 CITY OF PHOENIX AVIATION DEPARTMENT
 PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION
 AV06000026 FAA

APR NO:	3-04-0029-106-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JHAVERI
Drawn by:	A. SANTILLI
Designed by:	C. SHAM

CONSTRUCTION PHASING
 DETAILS

SHEET NUMBER:
 GC-501
 SHEET 12 OF 108



NOTE: BARRICADES AND THEIR PLACEMENT SHALL MEET THE REQUIREMENTS OF FAA AC 150/5370-20 OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

B VERTICAL PANEL BARRICADE (FLASHING RED LIGHT)
 GC-501 N.T.S.



NOTE: BARRICADES AND THEIR PLACEMENT SHALL MEET THE REQUIREMENTS OF FAA AC 150/5370-20 OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.

A LOW PROFILE BARRICADE - TYPE 1 (TWO FLASHING RED LIGHTS)
 GC-501 N.T.S.



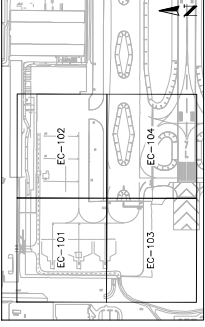
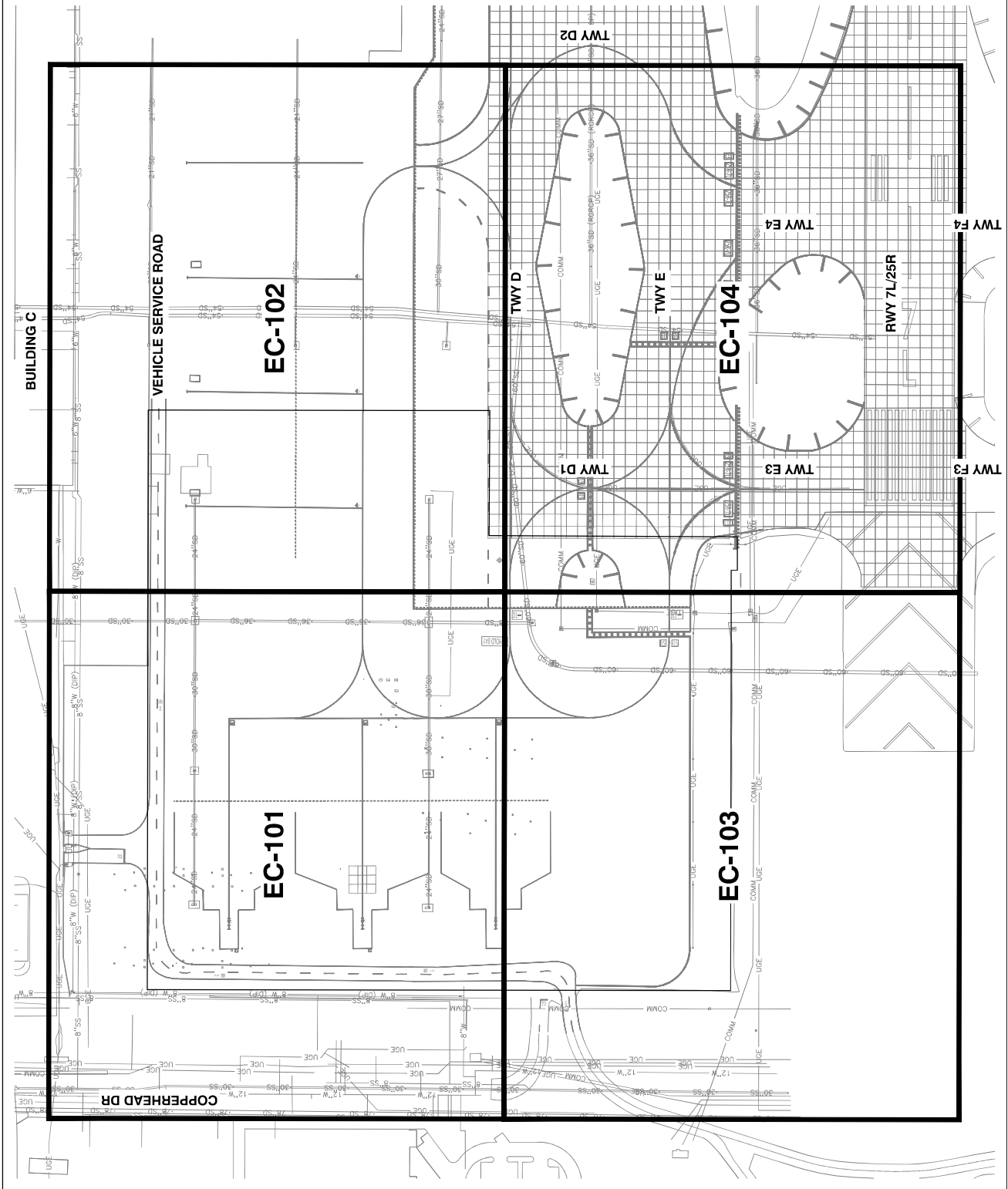
NO.	ISSUED FOR R/D	DATE
		04/23

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

APR NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

OVERALL POLLUTION PREVENTION PLAN
 SHEET OVERVIEW TITLE

SHEET NUMBER
EC-100
 SHEET 13 OF 108



KEY MAP
 NTS



NO.	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

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 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**
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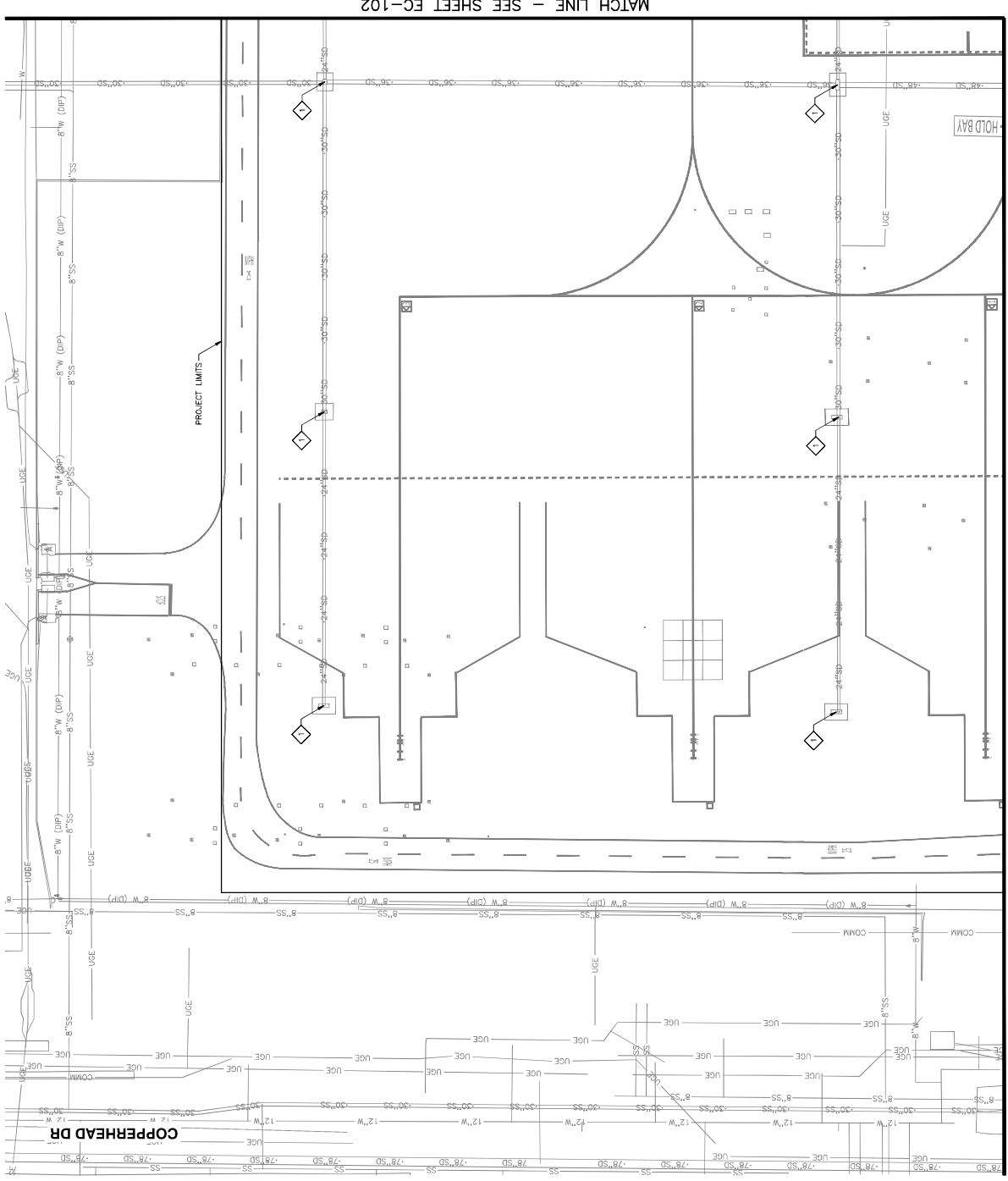
AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAM

**STORMWATER POLLUTION
 PREVENTION PLAN**

SHEET OVER SHEET TITLE
 SHEET NUMBER
EC-101
 SHEET 14 OF 105

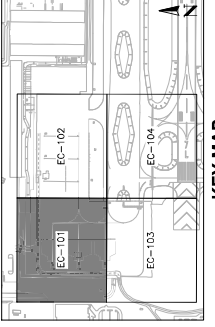
SWPPP NOTES

NO.	DESCRIPTION
1	FINISH AND INSTALL INLET PROTECTION PER DETAIL A, SHEET EC-301



MATCH LINE - SEE SHEET EC-102

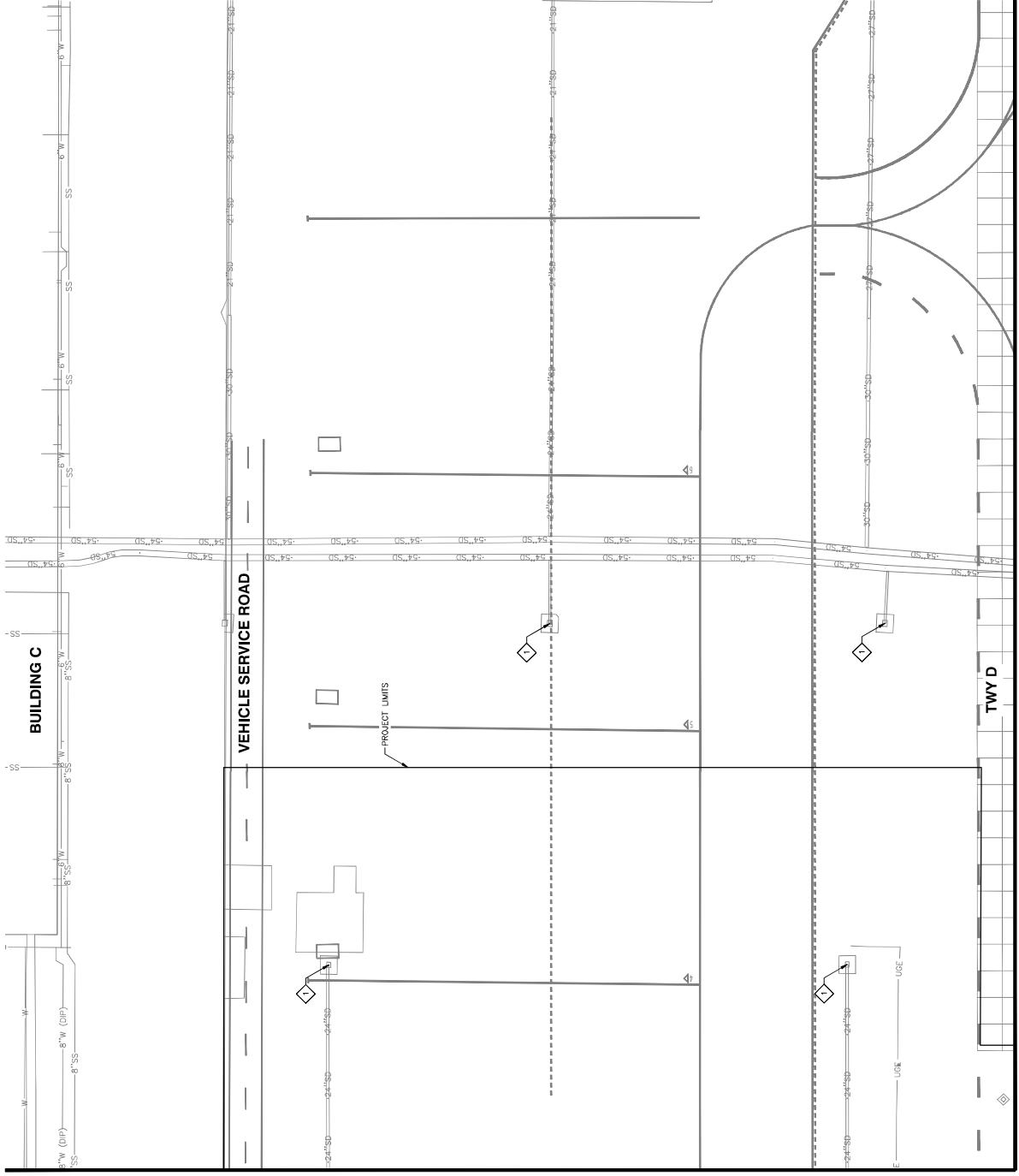
MATCH LINE -- SEE SHEET EC-103



KEY MAP
 NTS

SWPPP NOTES

NO.	DESCRIPTION
1	FURNISH AND INSTALL INLET PROTECTION PER DETAIL A, SHEET EC-501



SWPPP NOTES

DESCRIPTION

1 FURNISH AND INSTALL INLET PROTECTION PER DETAIL A, SHEET EC-501

STORMWATER POLLUTION PREVENTION PLAN

AP NO:	2-04-0029-107-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JHAVRI
Drawn by:	A. SANTI
Designed by:	C. SHAH

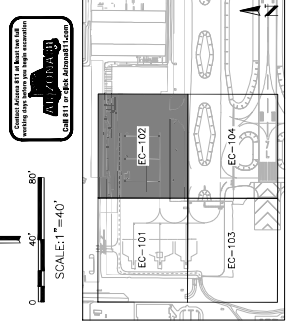
PHX DVT BYR
 CITY OF PHOENIX MAINTENANCE DEPARTMENT
PHOENIX SKY HARBOR RECONSTRUCTION
WEST AIR CARGO INTERNATIONAL AIRPORT
 AV06000026 FAA

NO.	ISSUED FOR R/D	DATE
		04/23



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.

KEY MAP
NTS



MATCH LINE -- SEE SHEET EC-104

MATCH LINE - SEE SHEET EC-101

SHEET OVERVIEW TITLE

SHEET NUMBER EC-102

SHEET 15 OF 108



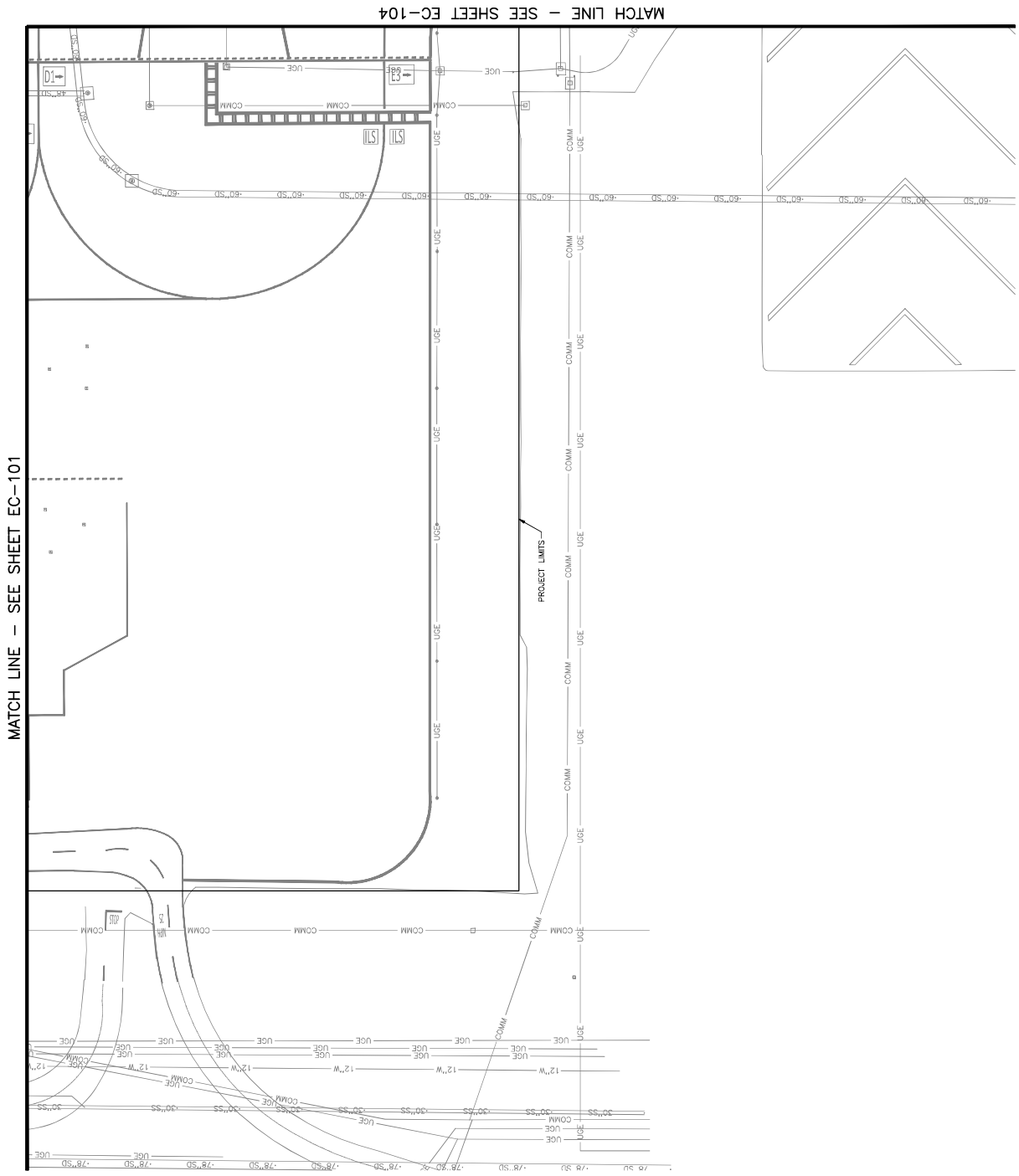
NO.	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

PHX DVI BYR
CITY OF PHOENIX AVIATION DEPARTMENT
PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

AP No: 2-04-0029-106-2023
3-04-0029-107-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVENI
Drawn by: A. SANTILLI
Designed by: C. SHAN

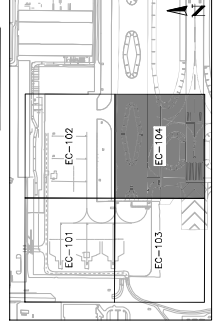
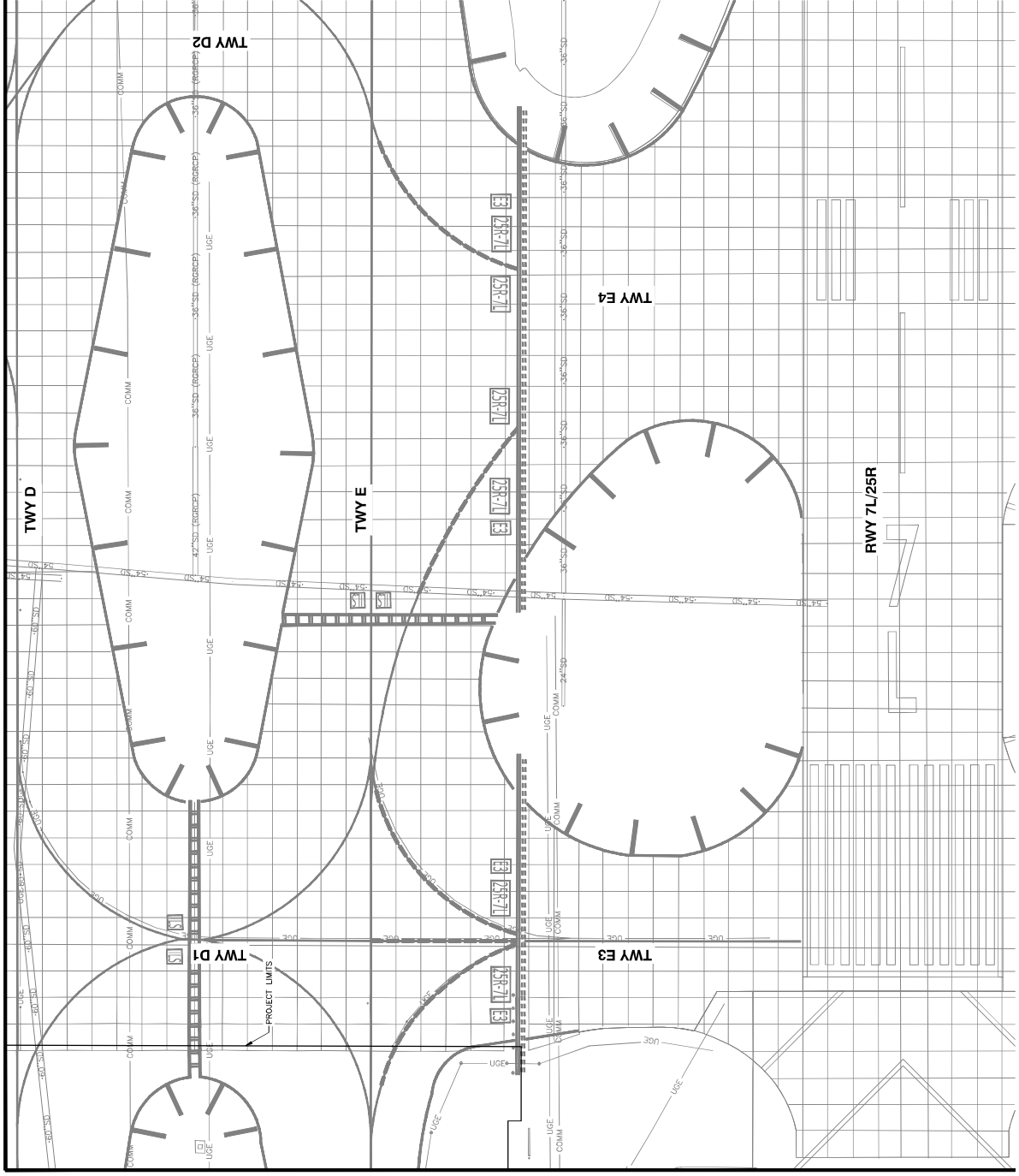
SHEET OVERVIEW TITLE
STORMWATER POLLUTION PREVENTION PLAN

SHEET NUMBER
EC-103
SHEET 16 OF 105



MATCH LINE - SEE SHEET EC-101

MATCH LINE - SEE SHEET EC-104



STORMWATER POLLUTION PREVENTION PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER EC-104

SHEET OF 108

AP NO: 2-04-0029-106-2023
 Date: 04/18/2023
 Checked by: C. JAHVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAN

PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 PHOENIX SKY HARBOR RECONSTRUCTION
 WEST AIR CARGO
 AV06000026 FAA

NO	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

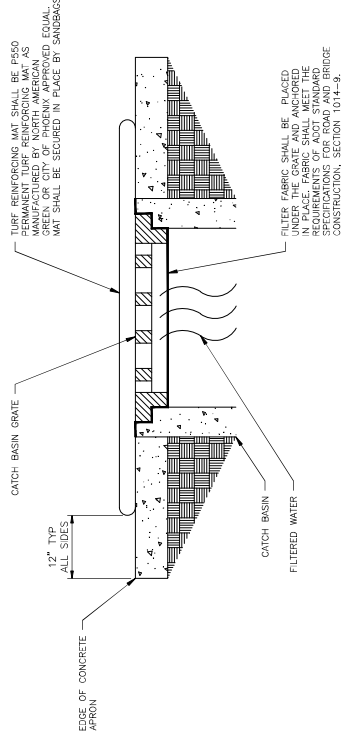
PER CITY OF PHOENIX CITY CODE CHAPTER 22, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.



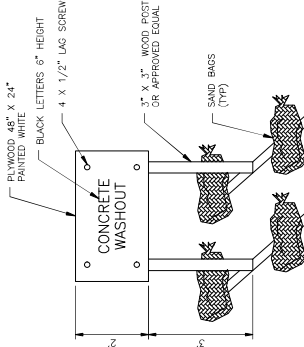
TRAGE
 CONSULTING

ENGINE CONSULTANT

1. AN AGREES CONSTRUCTION GENERAL PERMIT (CGP) AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE NEEDED.
2. A COPY OF THE GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (NOI) AND THE SWPPP SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW.
3. CONTRACTOR IS EXPECTED TO COMPLY WITH PHOENIX CITY CODE 32C.
4. A COPY OF THE GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE STORM WATER MANAGEMENT PLAN (SWMP) OR SWPPP, SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW.
5. THE DEPARTMENT ENVIRONMENTAL CONTACT SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE SOIL DISTURBANCE BEGINS.
6. THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY HEALTH DEPARTMENT AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.
7. THE CONTRACTOR SHALL PERFORM AT A MINIMUM A VISUAL INSPECTION OF THE CONSTRUCTION SITE AS REQUIRED UNDER THE CONSTRUCTION GENERAL PERMIT (CGP), WHERE APPLICABLE. THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE STORMWATER CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE CONTRACTOR'S RESPONSIBILITY IS TO MAINTAIN AND MONITOR THE STORMWATER CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
8. THE CONTRACTOR SHALL AVOID THE SWPPP/SWMP AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EXISTENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.
9. THE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (NOT) AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS. THE NOT IS TO BE SUBMITTED TO THE CITY'S DEPARTMENT ENVIRONMENTAL CONTACT.
10. THE CONTRACTOR SHALL SAVE ALL RECORDS, INCLUDING THE NOI, SWMP, NOT, AND INSPECTION REPORTS, ON FILE FOR A MINIMUM OF THREE YEARS FROM THE DATE OF FILING THE NOT.
11. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE OPERATOR/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND THE NOT IS SUBMITTED.
12. THE FACILITIES (CONTROLS) SHOWN ON THE PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT EROSION-LOADED WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE SURFACE WATER QUALITY STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SOIL CONTROL.



A INLET PROTECTION
N.T.S.



- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN WILL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. WASHOUT BASIN SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR.
 4. WHEN NEEDED, PLASTIC LINING AND DRY RESIDUE SHALL BE REMOVED AND PROPERLY DISPOSED OF AND A NEW LINER INSTALLED.
 5. CONTRACTOR TO USE PRE-FABRICATED LEAK RESISTANT CONCRETE WASH OUT BINS (SEE PHOTO BELOW).



SAMPLE CONCRETE WASHOUT BIN (SEE NOTE 5 ABOVE, PHOTO FOR REFERENCE ONLY)

B CONCRETE WASHOUT
N.T.S.

NO	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE

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

Proj No:	24-04-0029-106-2023
Drawn By:	A. SANTILLI
Checked By:	C. JAHVENI
Date:	04/18/2023
Drawn Scale:	AS SHOWN



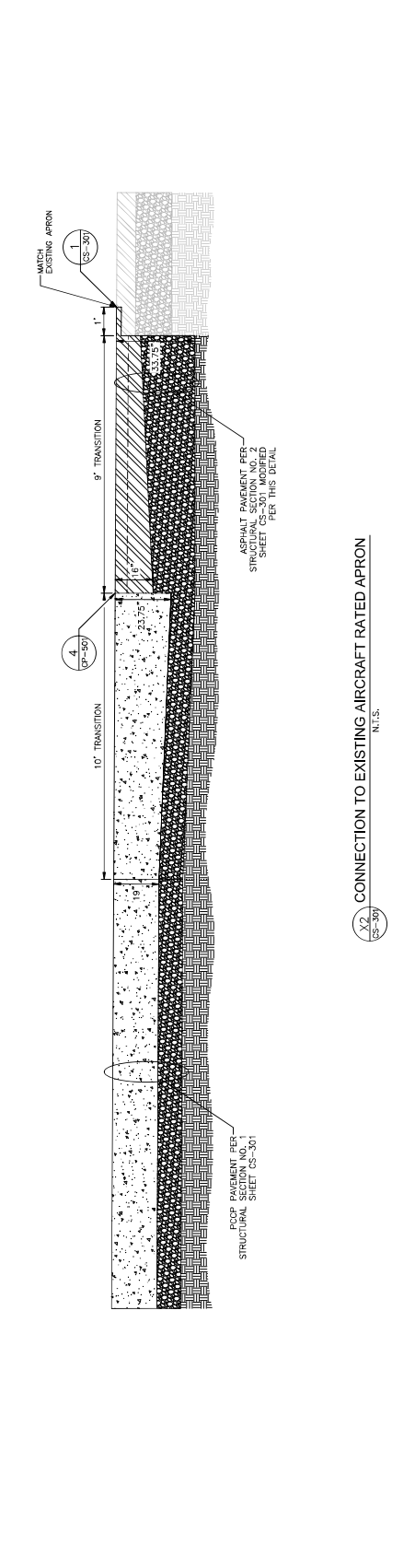
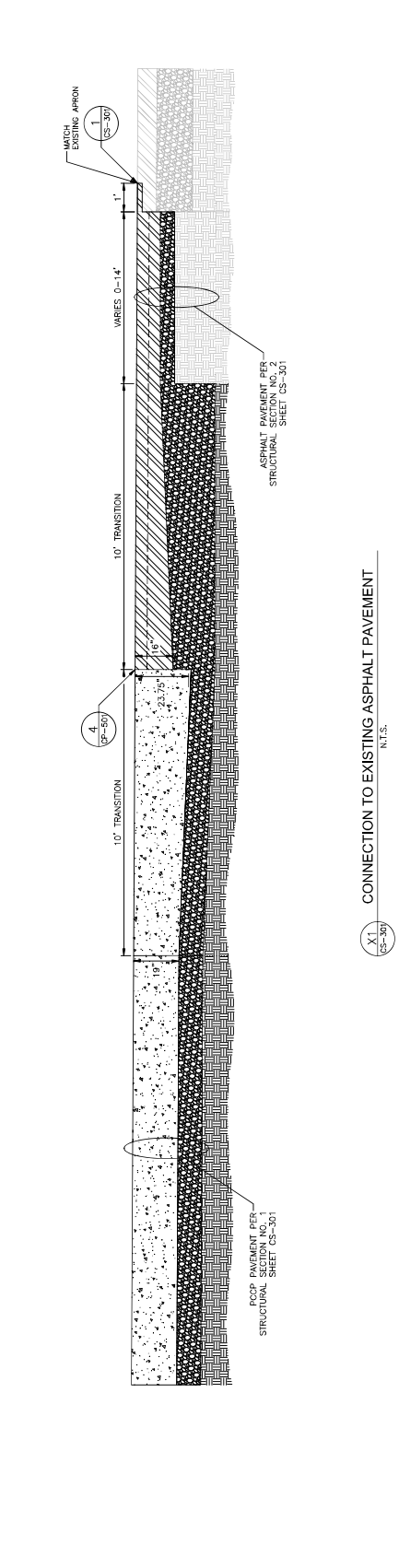
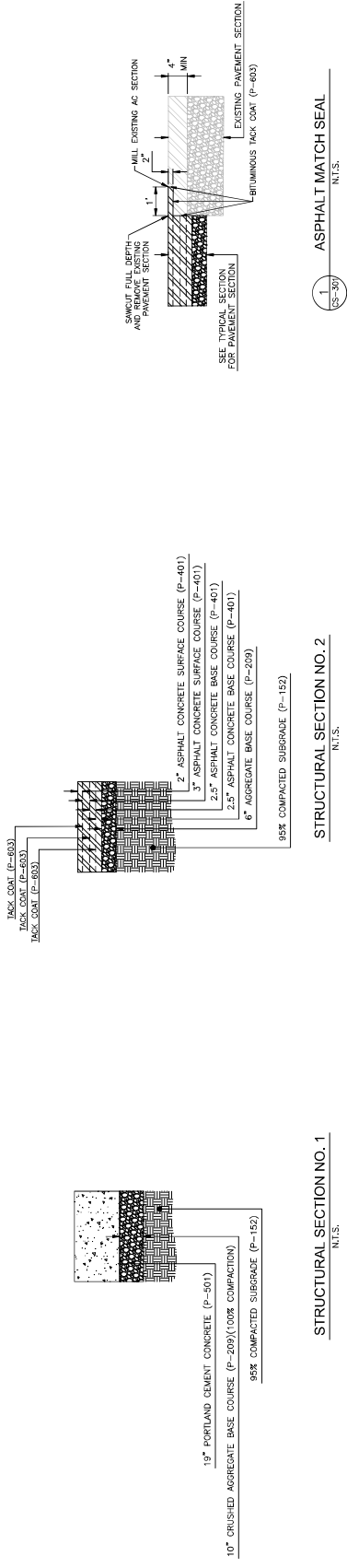
NO.	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYN
CITY OF PHOENIX AIRPORT DEPARTMENT
RECONSTRUCTION
WEST AIR CARGO
PHOENIX SKY HARBOR
AV06000026 FAA

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

TYPICAL SECTIONS
SHEET OVERVIEW TITLE

SHEET NUMBER:
CS-301
SHEET 19 OF 108





NO.	ISSUED FOR R/D	DATE

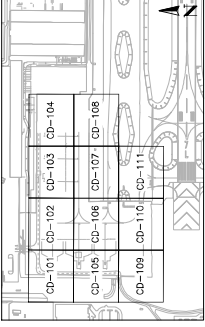
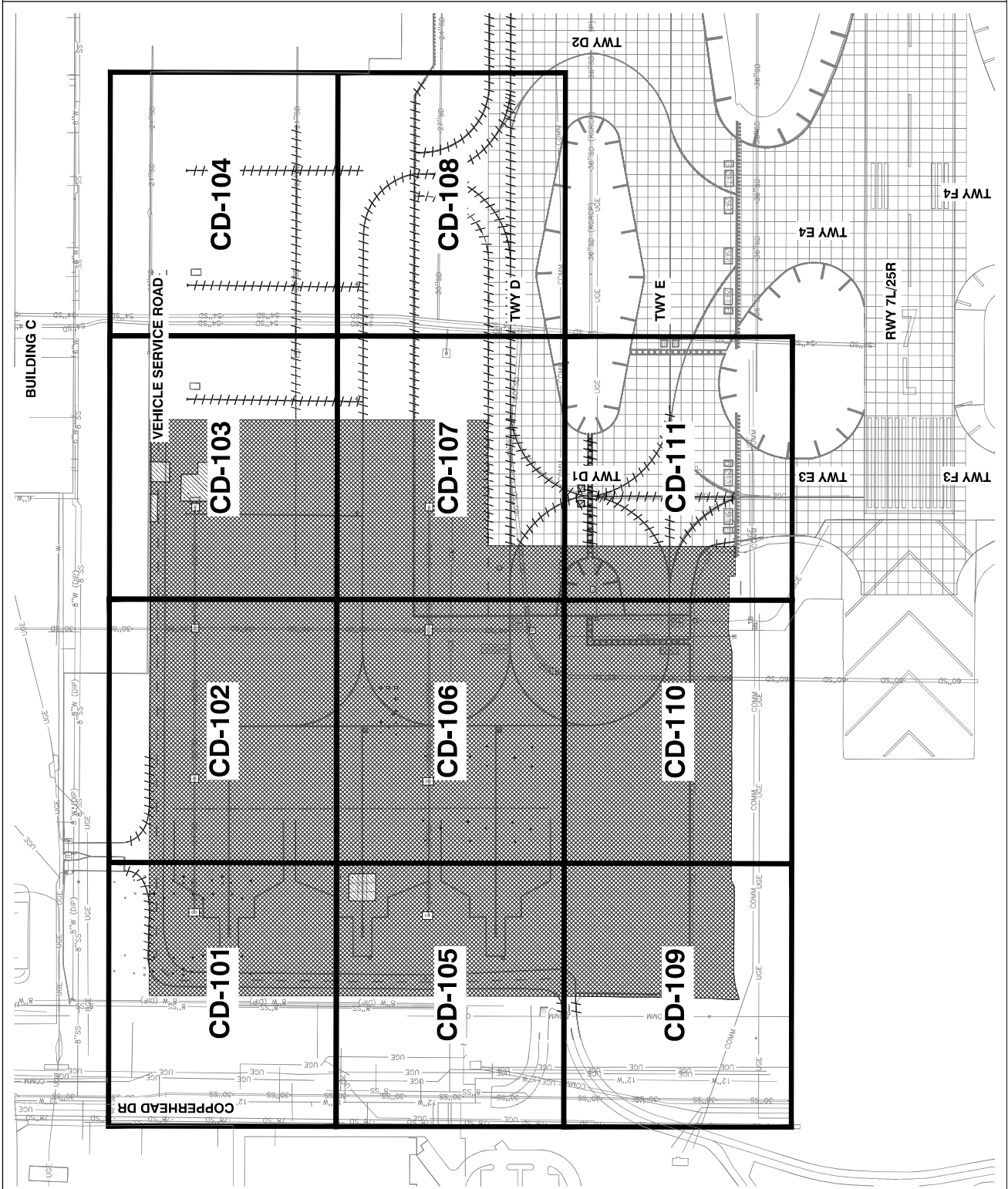
REVISIONS / SUBMISSIONS

PBX DVI BYN
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**
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AP No.: 2-04-0029-106-2023
 2-04-0029-107-2023
 Drawn by: A. SANTILLI
 Checked by: C. JAHVENI
 Date: 04/18/2023
 Dwg scale: AS SHOWN

**OVERALL CIVIL DEMOLITION
 PLAN**

SHEET OVERVIEW TITLE
 SHEET NUMBER
CD-100
 SHEET 20 OF 108



SHEET 21 OF 108

SHEET NUMBER:
CD-101

CIVIL DEMOLITION PLAN

APR NO:
2-04-0029-107-2023
2-04-0029-106-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVENI
Drawn by: A. SANTIJI
Designed by: C. SHAH

**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT**

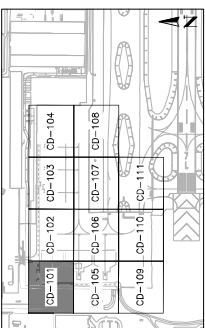
PHX DOT BYM
CITY OF PHOENIX AVIATION DEPARTMENT

NO	ISSUED FOR BID	REVISED / SUBMISSIONS	DATE
			04/23



TRAE
CONSULTING

SHEET OVERVIEW TITLE



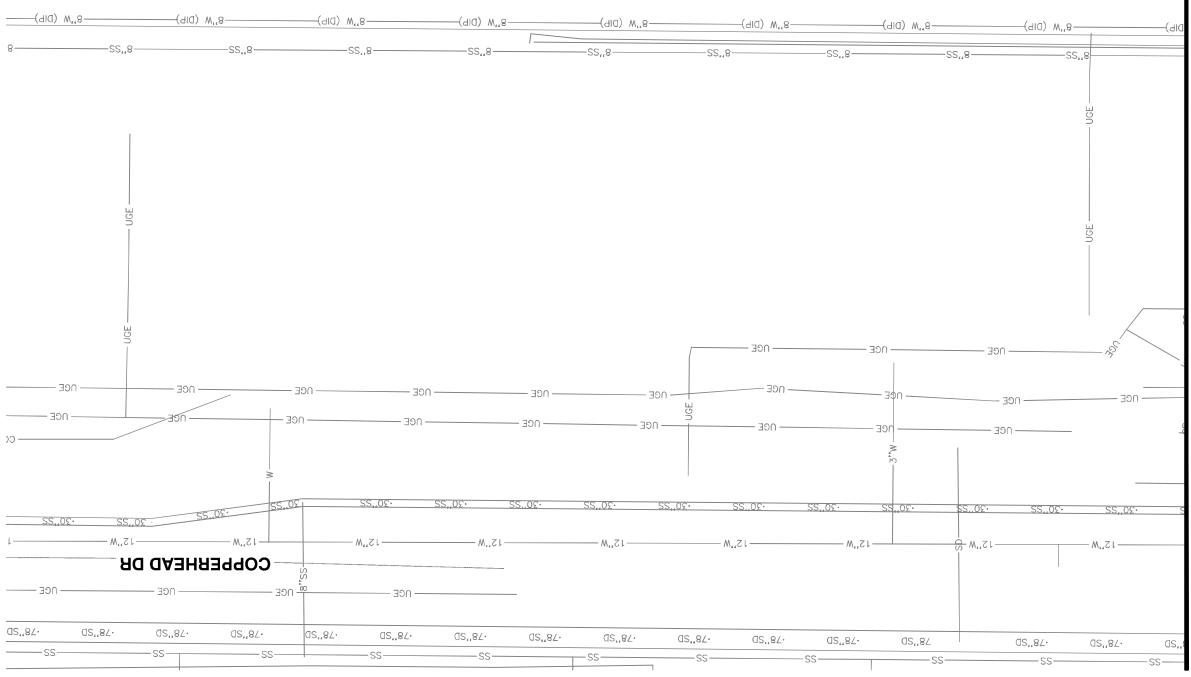
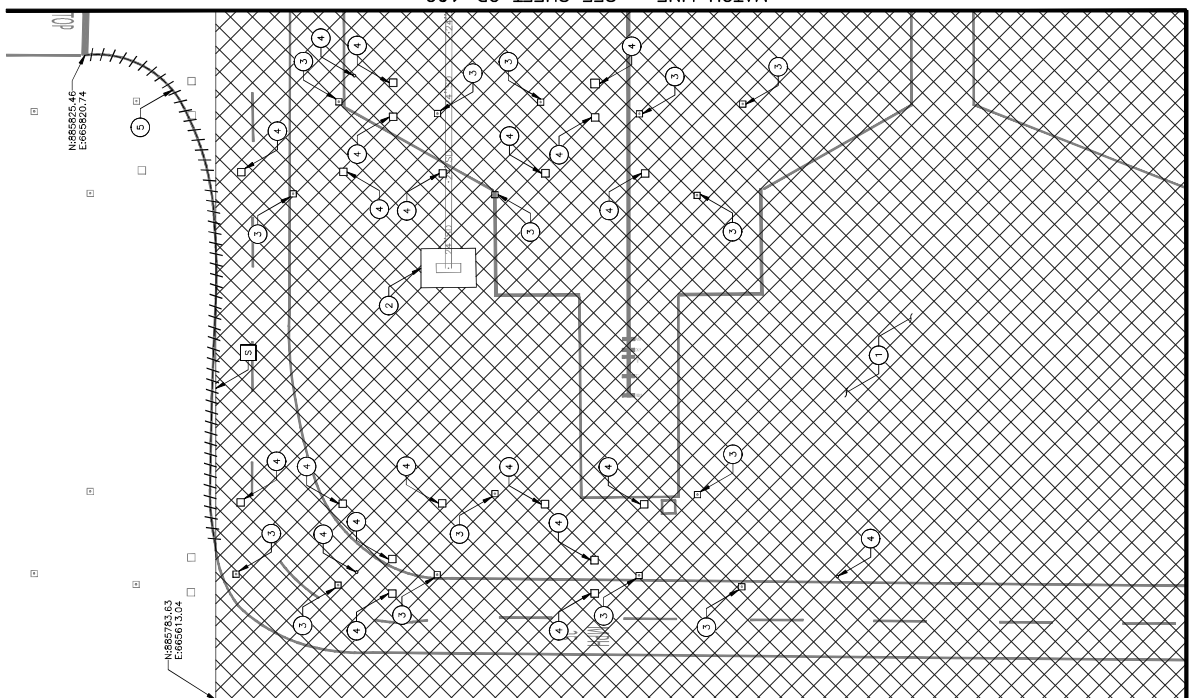
NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE (5\"/>	
2	REMOVE EXISTING INLET FRAME GRATE AND REINFORCED CONCRETE APRON	1 EA
3	REMOVE EXISTING CONCRETE TIE DOWN	15 EA
4	REMOVE EXISTING CONCRETE PAVEMENT	12 SY
5	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	92 SF
6	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

LEGEND



ASPHALT PAVEMENT REMOVAL

MATCH LINE - SEE SHEET CD-102



MATCH LINE - SEE SHEET CD-105

DEMOLITION NOTES

DEMOLITION NOTES	
NO.	DESCRIPTION
1	SAWOUT AND REMOVE EXISTING ASPHALT CONCRETE (15240 SY)
2	REMOVE EXISTING INLET FRAME, GRATE AND REINFORCED CONCRETE APRON
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
4	SEE ATTACHED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

LEGEND	
	ASPHALT PAVEMENT REMOVAL

NO.	ISSUED FOR BID	DATE
		04/23

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.

PHX DVI BYM
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION**
 AV06000026 FAA

APR NO:	3-04-0029-106-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JAHVERI
Drawn by:	A. SANTILLI
Designed by:	C. SHAH

CIVIL DEMOLITION PLAN

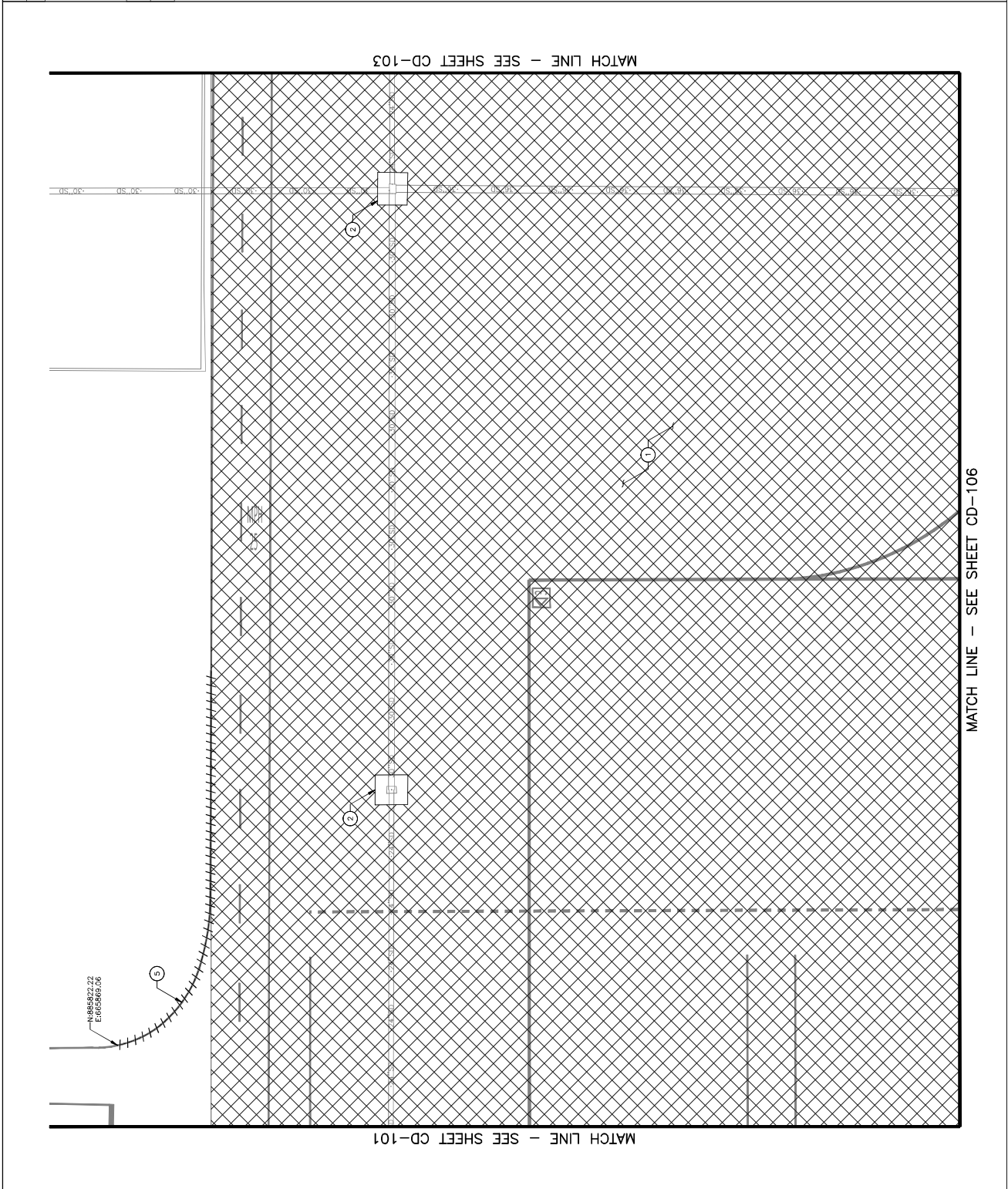
SCALE: 1" = 20'

SHEET OVERVIEW TITLE

DESIGNED BY: C. SHAH
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVERI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 APR NO: 3-04-0029-106-2023

SHEET NUMBER: **CD-102**

SHEET TITLE: **CIVIL DEMOLITION PLAN**

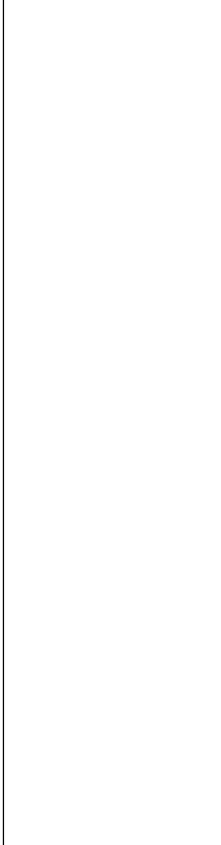


NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE (SEE FIELD PLAN)	9924 SY
2	REMOVE EXISTING INLET FRAME GRATE AND REINFORCED CONCRETE APRON	1 EA
4	REMOVE EXISTING CONCRETE PAVEMENT	474 SY
6	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING ASPHALT CONCRETE (SEE FIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES)	648 SF

DEMOLITION NOTES

LEGEND

ASPHALT PAVEMENT REMOVAL



MATCH LINE - SEE SHEET CD-104

NO.	REVISIONS / SUBMISSIONS	DATE
		04/23

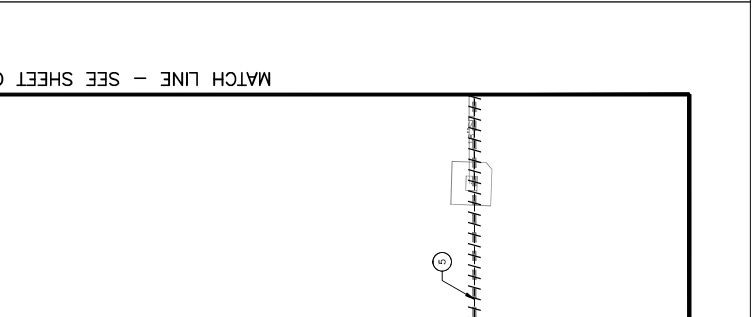
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

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

AP NO: 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAM

PHOENIX CONSULTING
 1001 N. CENTRAL AVENUE, SUITE 1000
 PHOENIX, AZ 85004
 TEL: 602.442.8800
 WWW.PHXCONSULTING.COM

SHEET OVERVIEW TITLE	
CIVIL DEMOLITION PLAN	CD-103



KEY MAP
 NTS

MATCH LINE - SEE SHEET CD-107

CIVIL DEMOLITION PLAN

SHEET OVERVIEW TITLE

APR. 2023
13-04-0029-106-2023
APR. 2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVENI
Drawn by: A. SANTI
Designed by: C. SHAN

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PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT
AY0600026 FAA

NO.	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE
			04/23

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CONSULTING

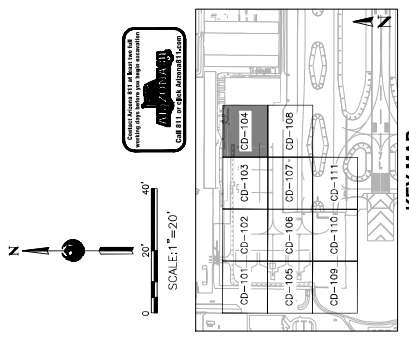
PHASE CONSULTANT

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
5	SURFACE PREPARATION OF PAVEMENT TO REMOVE SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	1373 SF

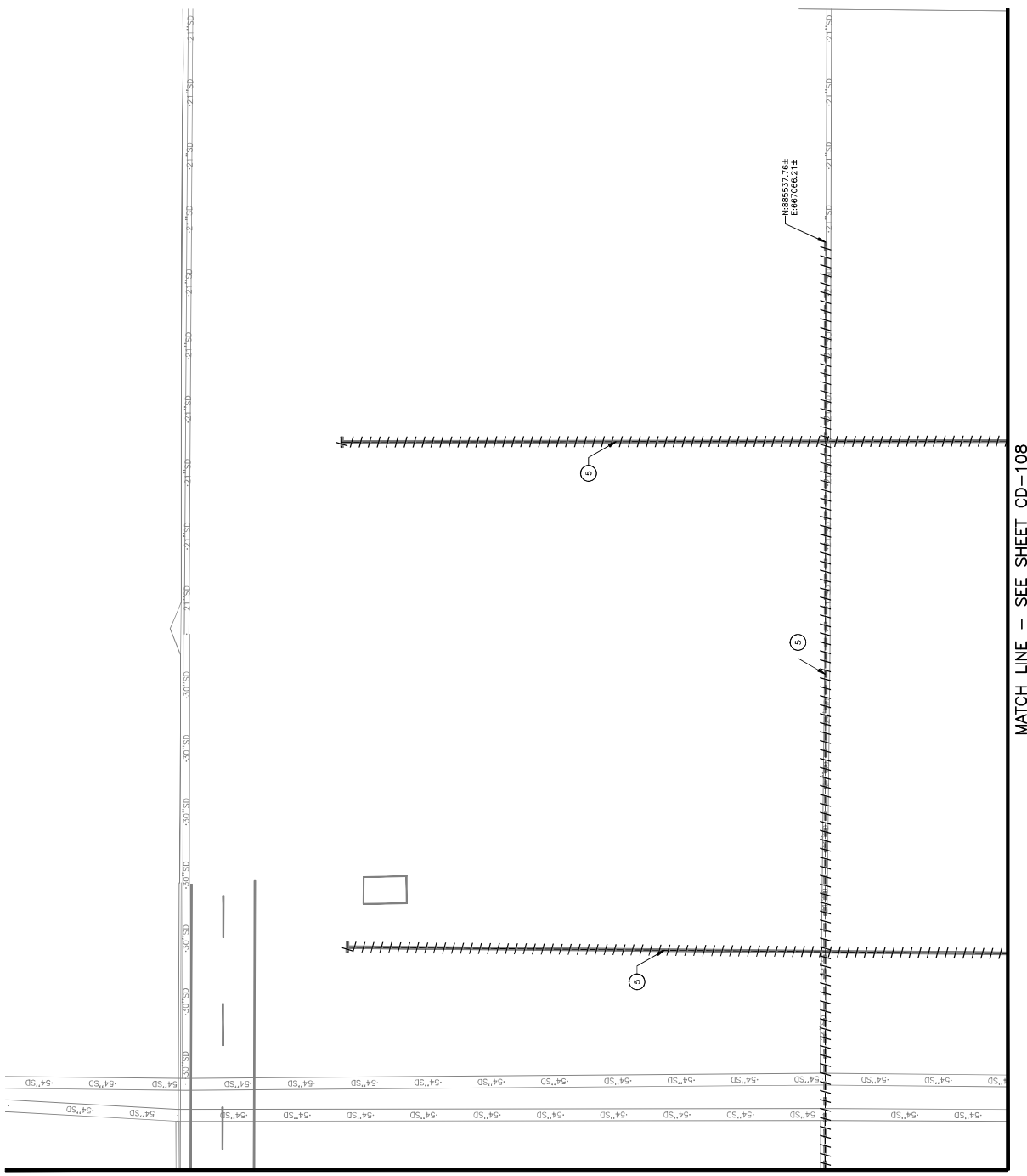
KEY MAP

NTS



MATCH LINE -- SEE SHEET CD-108

MATCH LINE - SEE SHEET CD-103



NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE (1" MIN. THICK)	9133 SY
2	REMOVE EXISTING INLET FRAME, GRADE AND REINFORCED CONCRETE APRON	1 EA
3	REMOVE EXISTING CONCRETE PAVEMENT	226 SY
4	REMOVE EXISTING CONCRETE PAVEMENT TO REMOVE UNDERLYING PREPARED PAVEMENT TO REMOVE	17 SF
5	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

LEGEND

ASPHALT PAVEMENT REMOVAL



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		04/23

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INTERNATIONAL AIRPORT
 AV06000026 FAA

APR NO. 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAM

CIVIL DEMOLITION PLAN

SHEET OVERVIEW TITLE

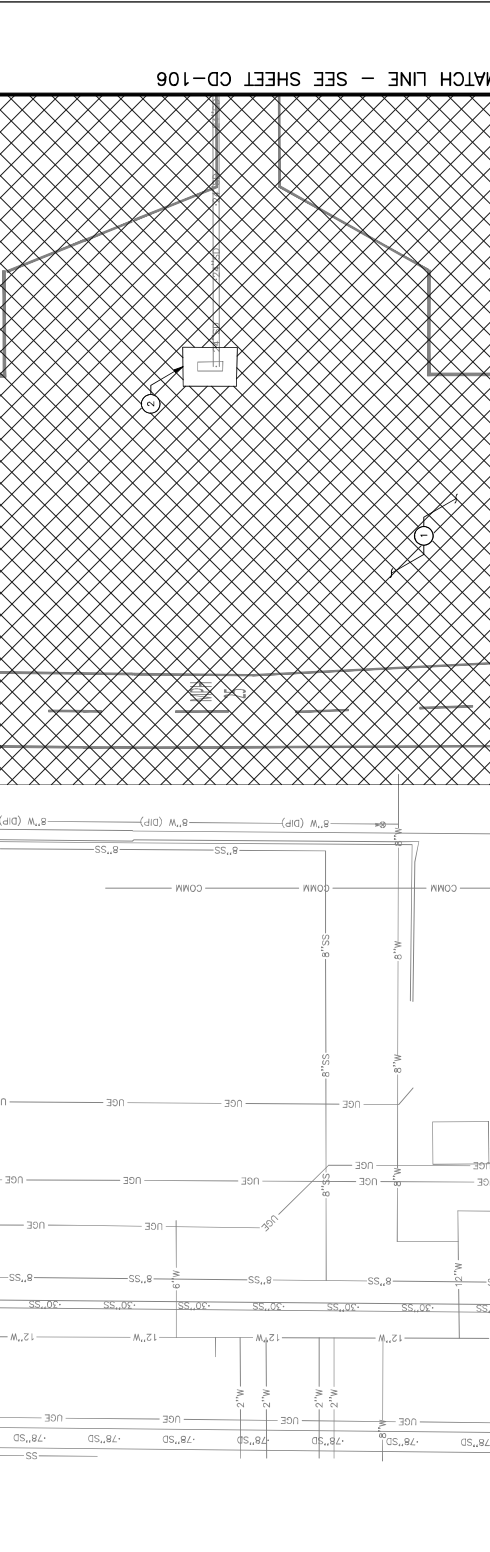
DESIGNED BY: C. SHAM
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 Dwg scale: AS SHOWN
 APR NO. 2-04-0029-106-2023

SHEET OVERVIEW NUMBER
CD-105
 SHEET 25 OF 105

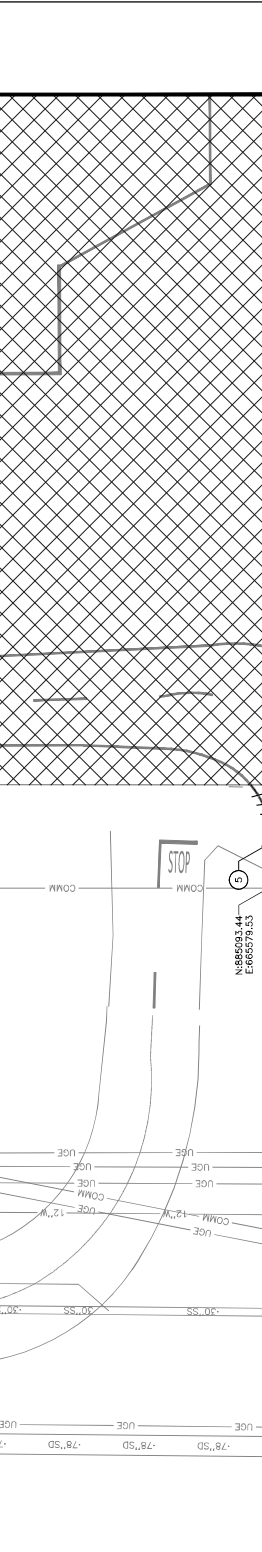
DEMOLITION NOTES

LEGEND

ASPHALT PAVEMENT REMOVAL

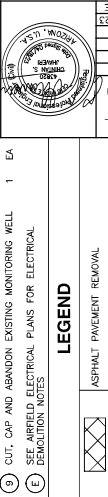


MATCH LINE - SEE SHEET CD-106



KEY MAP

NTS



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			04/23

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 AV06000026 FAA

AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAH

CIVIL DEMOLITION PLAN
 SHEET OVERVIEW TITLE
 SHEET NUMBER: **CD-106**
 NTS

DEMOLITION NOTES

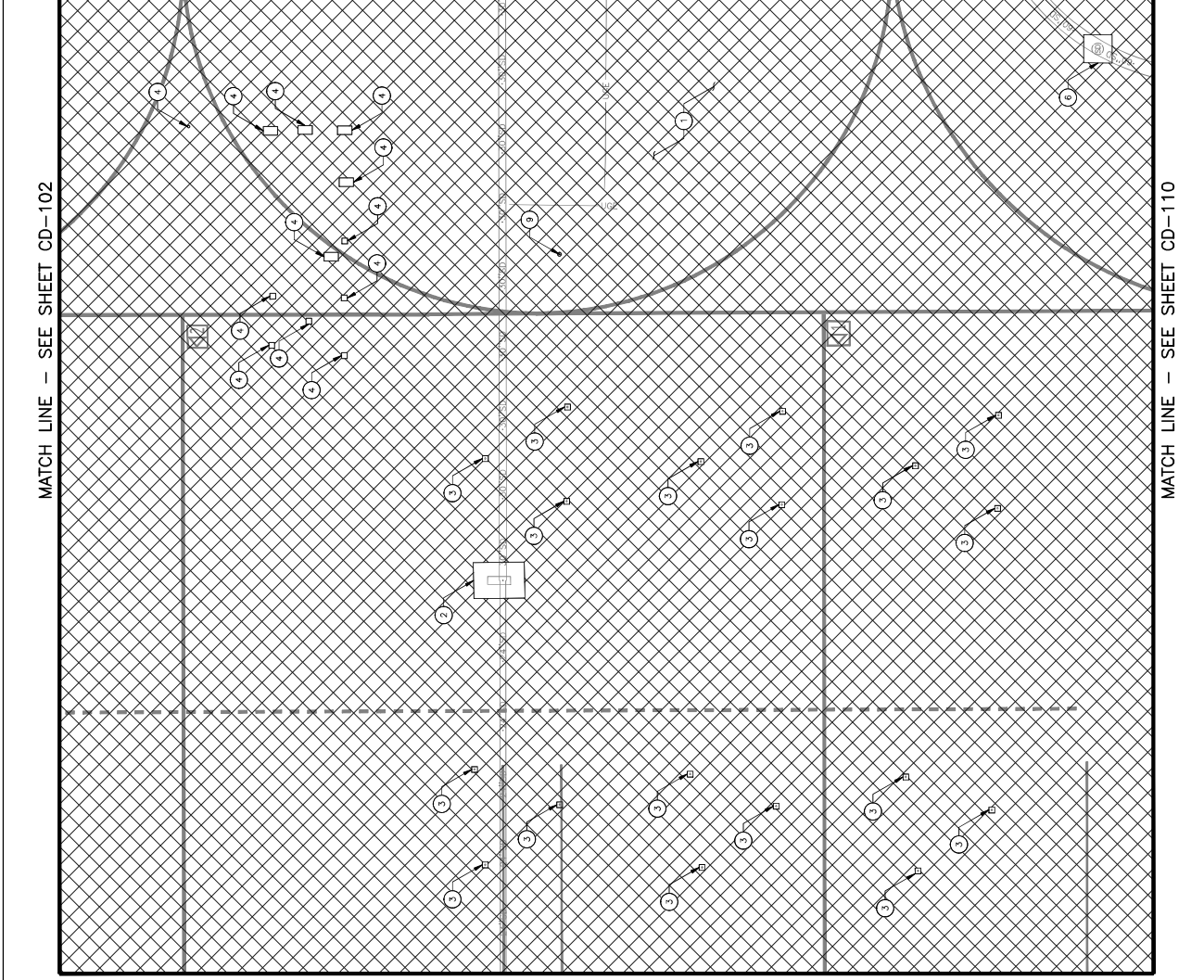
NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE (ASPHALT) (SEE CD-105)	18485 SY
2	REMOVE EXISTING INLET FRAME, GRADE AND REINFORCED CONCRETE APRON.	2 EA
3	REMOVE EXISTING CONCRETE TIE DOWN	18 EA
4	REMOVE EXISTING CONCRETE PAVEMENT	11 SY
5	REMOVE EXISTING STORM DRAIN MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON.	2 EA
6	REMOVE EXISTING FAA COMMUNICATION MANHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	1 EA
7	CUT, CAP AND ABANDON EXISTING MONITORING WELL	1 EA
8	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	1 EA

LEGEND

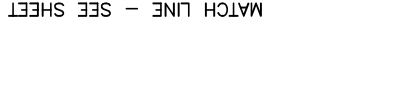
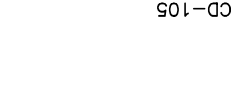
ASPHALT PAVEMENT REMOVAL

NOTES

1. WORK FOR REMOVAL SHALL BE DONE AND PARASONS EXISTING MONITORING WELL SHALL BE PERFORMED BY AN AUTHORIZED CONTRACTOR PER TECHNICAL SPECIAL PROVISION ITEM 41.
 USE ONLY AND NOT BE SHOWN WITH THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX CITY CODE CHAPTER 22.



KEY MAP
 NTS



MATCH LINE - SEE SHEET CD-105
 MATCH LINE - SEE SHEET CD-107
 MATCH LINE - SEE SHEET CD-110

DEMOLITION NOTES	
NO.	DESCRIPTION
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE (9646 SY)
2	REMOVE EXISTING INLET FRAME AND GRADE AND REINFORCED CONCRETE APRON
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
4	CUT, CAP AND ABANDON EXISTING MONITORING WELL
5	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

LEGEND	
	ASPHALT PAVEMENT REMOVAL

NOTES

1. WORK FOR DEMOLITION ITEMS IS FOR CITY OF PHOENIX ABANDON MONITORING WELL. CONTRACTOR SHALL VERIFY AND ABANDON AUTHORIZED CONTRACTOR PER TECHNICAL SPECIAL PROVISION ITEM 41.

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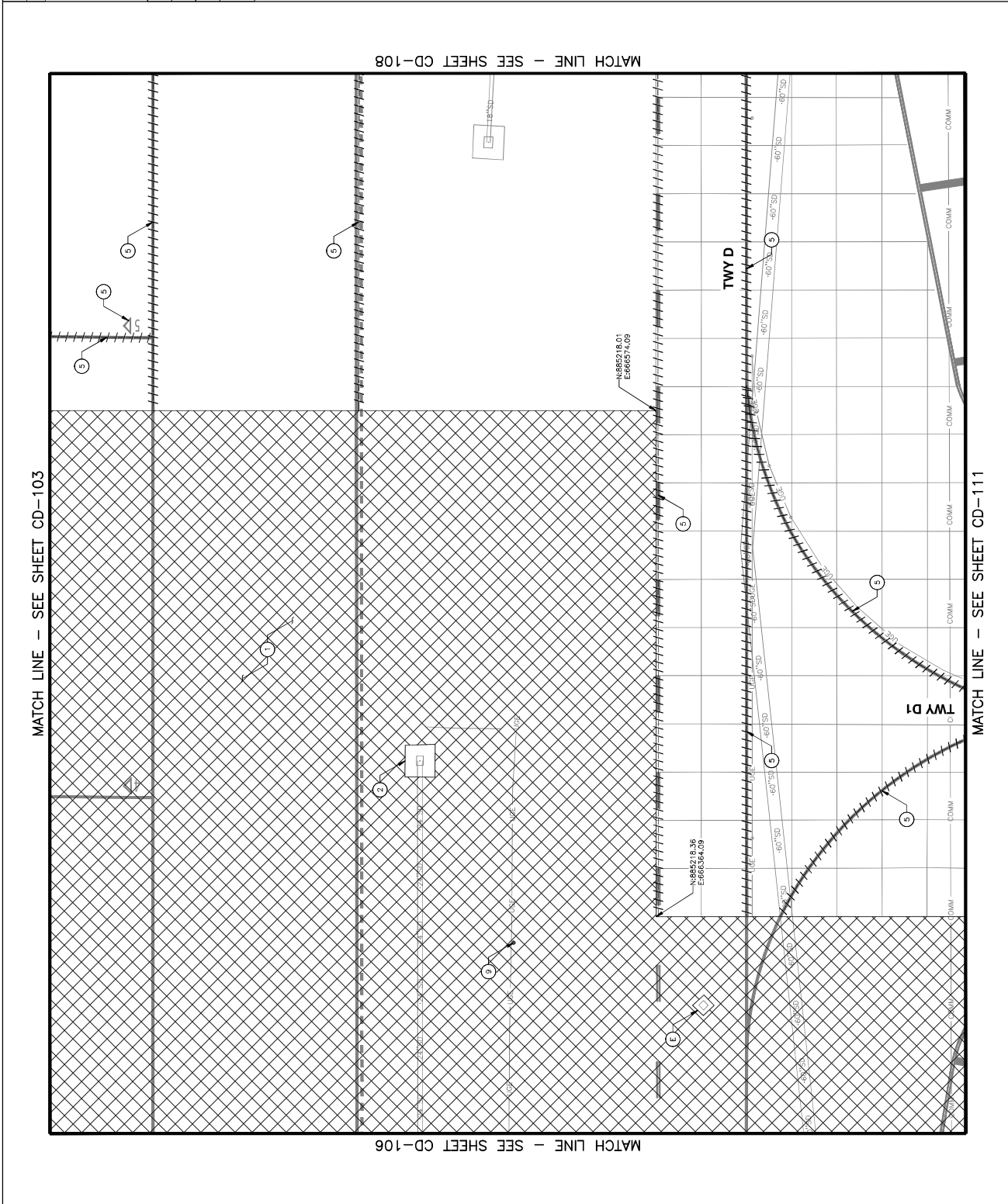
Designed by: C. SHAW
 Drawn by: A. SANTILLI
 Checked by: C. JAHVENI
 Date: 04/18/2023
 Dwg scale: AS SHOWN
 AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023

CIVIL DEMOLITION PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER: **CD-107**

NTS



TRAFFIC CONSULTING
 13131 N. 19th Avenue, Suite 100
 Phoenix, AZ 85022
 Phone: (602) 998-8888
 Fax: (602) 998-8889
 www.trafficconsulting.com

PHOENIX AIRPORT AUTHORITY
 1000 N. CENTRAL AVENUE
 PHOENIX, AZ 85004

DATE: 04/23
 NO. REVISIONS / SUBMISSIONS

ISSUED FOR BID

DESIGNED BY: C. SHAM
 CHECKED BY: A. SANTILLI
 DATE: 04/18/2023
 DRAWING SCALE: AS SHOWN

APR. NO. 2-04-0029-107-2023
 MAY. NO. 2-04-0029-106-2023

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NO.	DESCRIPTION	QTY
5	SURFACE PREPARATION OF PAVEMENT TO REMOVE	3807 SF
E	SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

DEMOLITION PLAN

SHEET OVERVIEW TITLE

DESIGNED BY: C. SHAM

DATE: 04/18/2023

CHECKED BY: A. SANTILLI

DRAWING SCALE: AS SHOWN

APR. NO. 2-04-0029-107-2023
 MAY. NO. 2-04-0029-106-2023

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KEY MAP
 NTS

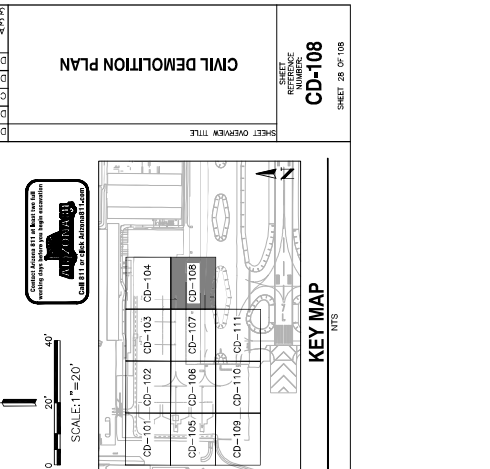
DEMOLITION NOTES

DESCRIPTION

QTY

5 SURFACE PREPARATION OF PAVEMENT TO REMOVE 3807 SF

E SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES



DEMOLITION PLAN

SHEET OVERVIEW TITLE

DESIGNED BY: C. SHAM

DATE: 04/18/2023

CHECKED BY: A. SANTILLI

DRAWING SCALE: AS SHOWN

APR. NO. 2-04-0029-107-2023
 MAY. NO. 2-04-0029-106-2023

**PHOENIX SKY HARBOR
 RECONSTRUCTION
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NO.	DESCRIPTION	QTY
5	SURFACE PREPARATION OF PAVEMENT TO REMOVE	3807 SF
E	SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

DEMOLITION PLAN

SHEET OVERVIEW TITLE

DESIGNED BY: C. SHAM

DATE: 04/18/2023

CHECKED BY: A. SANTILLI

DRAWING SCALE: AS SHOWN

APR. NO. 2-04-0029-107-2023
 MAY. NO. 2-04-0029-106-2023

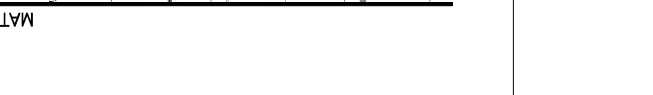
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 RECONSTRUCTION
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KEY MAP
 NTS



DEMOLITION NOTES	
NO.	DESCRIPTION
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE
2	REMOVE EXISTING ASPHALT CONCRETE
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
4	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

LEGEND	
	ASPHALT PAVEMENT REMOVAL

NO.	DESCRIPTION	QTY
7059	SY	7059
16	SF	16

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		04/23

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 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
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 RECONSTRUCTION**
 AV06000026 FAA

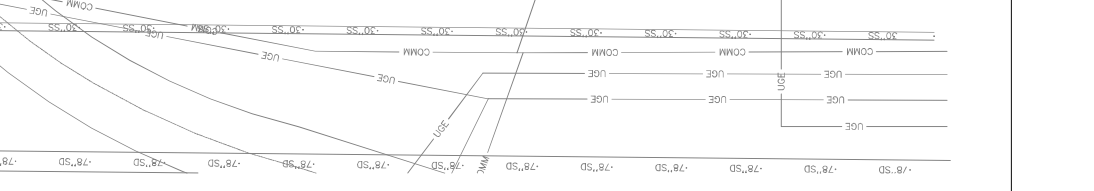
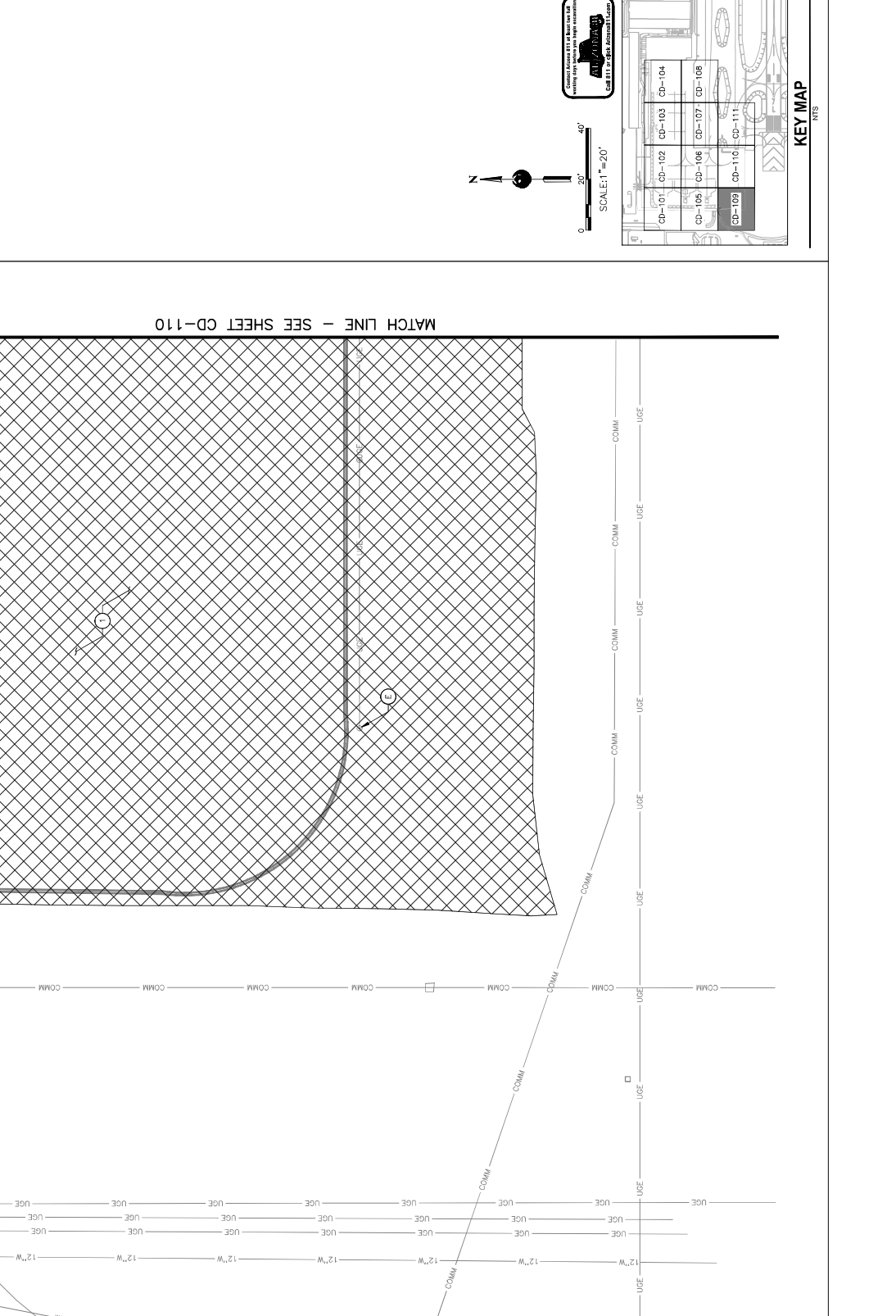
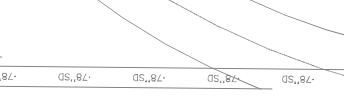
AP NO: 2-04-0029-106-2023
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 Designed by: C. SHAM

CIVIL DEMOLITION PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER: **CD-109**

SHEET 29 OF 108



MATCH LINE - SEE SHEET CD-105

MATCH LINE - SEE SHEET CD-110

N:\2022\22001 - PHX West Air Cargo Reconstruction\Drawings\A0600026 FAA-00-109.dwg - Rev 25/2023 11:28am

APR NO: 2-04-0029-106-2023
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**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**
 AV06000026 FAA

NO	REVISIONS / SUBMISSIONS	DATE
		04/23

ISSUED FOR BID



CIVIL DEMOLITION PLAN

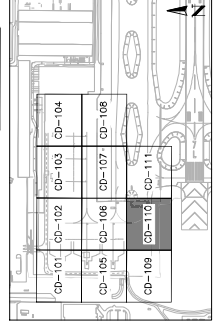
SHEET OVERVIEW TITLE
 SHEET NUMBER
CD-110
 SHEET 30 OF 108

DEMOLITION NOTES

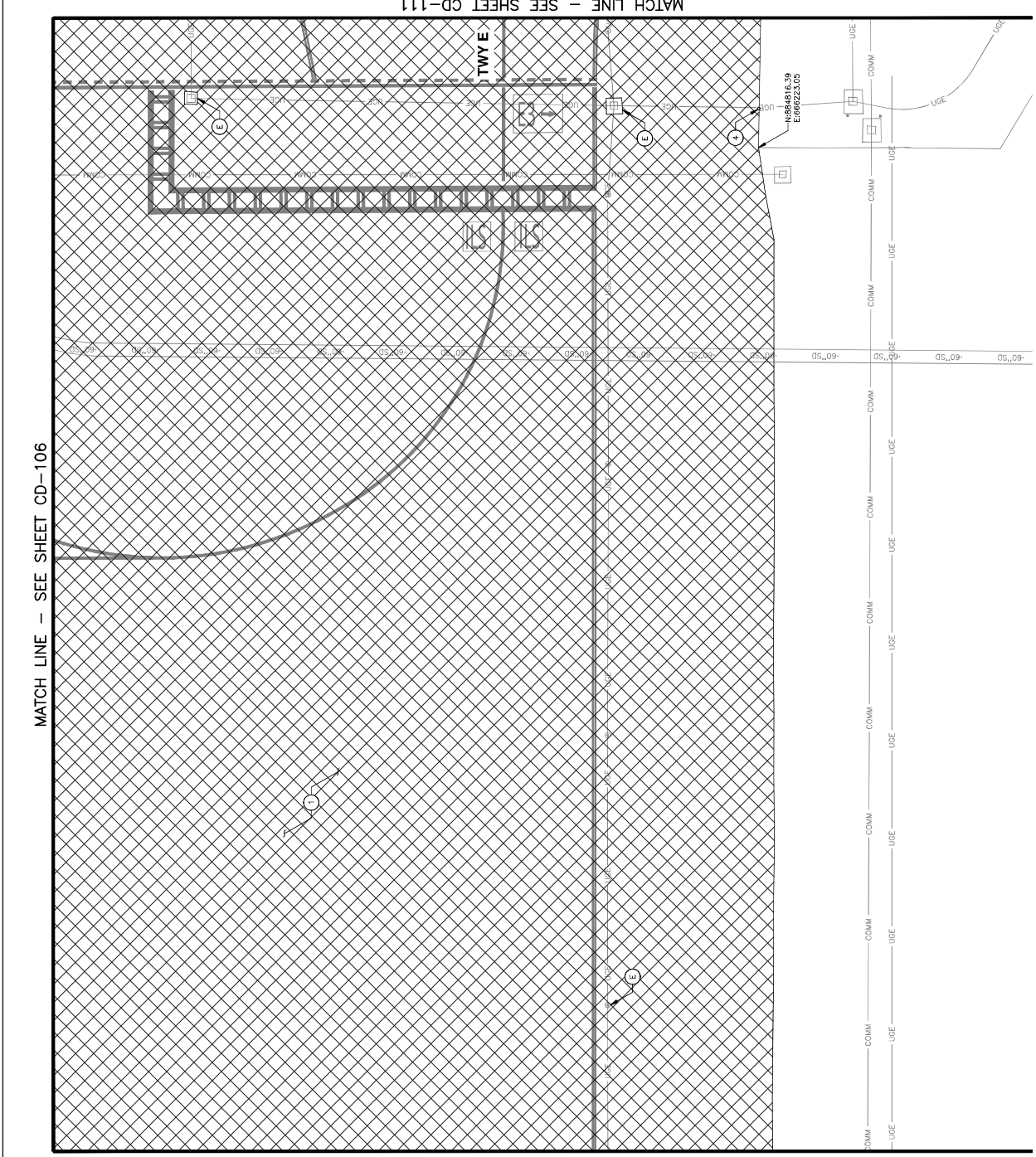
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1	SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE PAVEMENT, FULL DEPTH (UP TO 10' DEPTH)	1,9822 SY
4	REMOVE EXISTING CONCRETE PAVEMENT	1 SY
E	SEE AIRFIELD ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

LEGEND

ASPHALT PAVEMENT REMOVAL



KEY MAP
 NTS



MATCH LINE - SEE SHEET CD-109

MATCH LINE - SEE SHEET CD-111

N:\2022\220201 - PHX West Air Cargo Reconstruction\Drawings\A0600026 FAA-CD-110.dwg - Rev 2/2/2023 11:38am

NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE	2800 SY
2	REMOVE EXISTING ASPHALT CONCRETE	4525 SF
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	1 EA
4	REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	1 EA
5	SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

DEMOLITION NOTES

1 SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE
 2 REMOVE EXISTING ASPHALT CONCRETE
 3 SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
 4 REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON
 5 SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

LEGEND

ASPHALT PAVEMENT REMOVAL

NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE	2800 SY
2	REMOVE EXISTING ASPHALT CONCRETE	4525 SF
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	1 EA
4	REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	1 EA
5	SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

DEMOLITION NOTES

1 SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE
 2 REMOVE EXISTING ASPHALT CONCRETE
 3 SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
 4 REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON
 5 SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

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PHOENIX SKY HARBOR RECONSTRUCTION
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 Drawn by: A. SANTILLI
 Designed by: C. SHAH

NO.	DESCRIPTION	QTY
1	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE	2800 SY
2	REMOVE EXISTING ASPHALT CONCRETE	4525 SF
3	SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS	1 EA
4	REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON	1 EA
5	SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES	

DEMOLITION NOTES

1 SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE
 2 REMOVE EXISTING ASPHALT CONCRETE
 3 SURFACE PREPARATION OF PAVEMENT TO REMOVE EXISTING MARKINGS
 4 REMOVE EXISTING UTILITY HANDHOLE FRAME, COVER AND REINFORCED CONCRETE APRON
 5 SEE APPLIED ELECTRICAL PLANS FOR ELECTRICAL DEMOLITION NOTES

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 Drawn by: A. SANTILLI
 Designed by: C. SHAH

CIVIL DEMOLITION PLAN

DESIGNED BY: C. SHAH
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JHAVRI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 APR NO.: 2-04-0029-106-2023

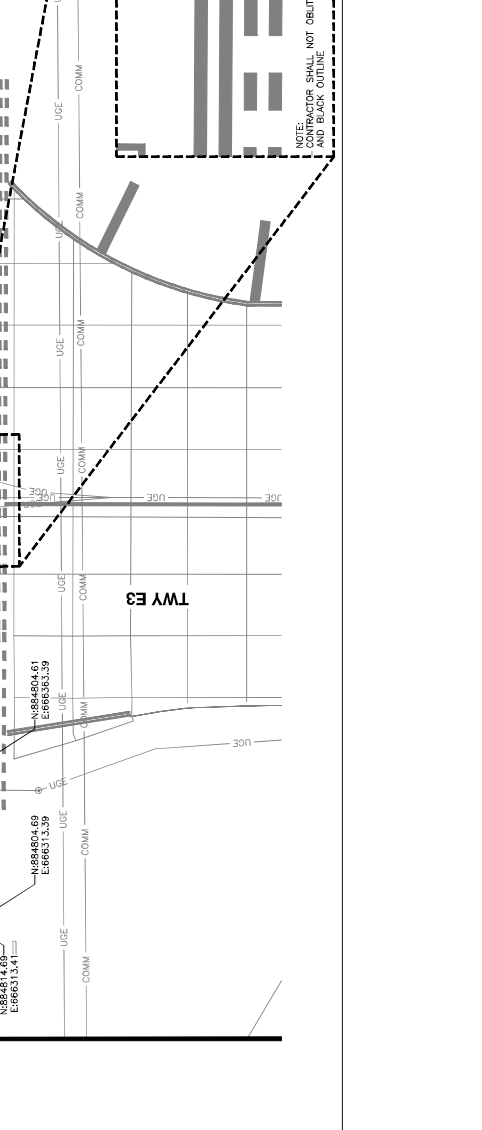
PHOENIX SKY HARBOR RECONSTRUCTION
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 AV06000026 FAA

CITY OF PHOENIX AVIATION DEPARTMENT
 PHX DVT BYR

KEY MAP
 NTS

SCALE: 1" = 20'

0 20' 40'





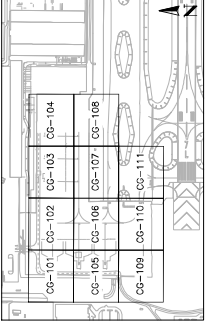
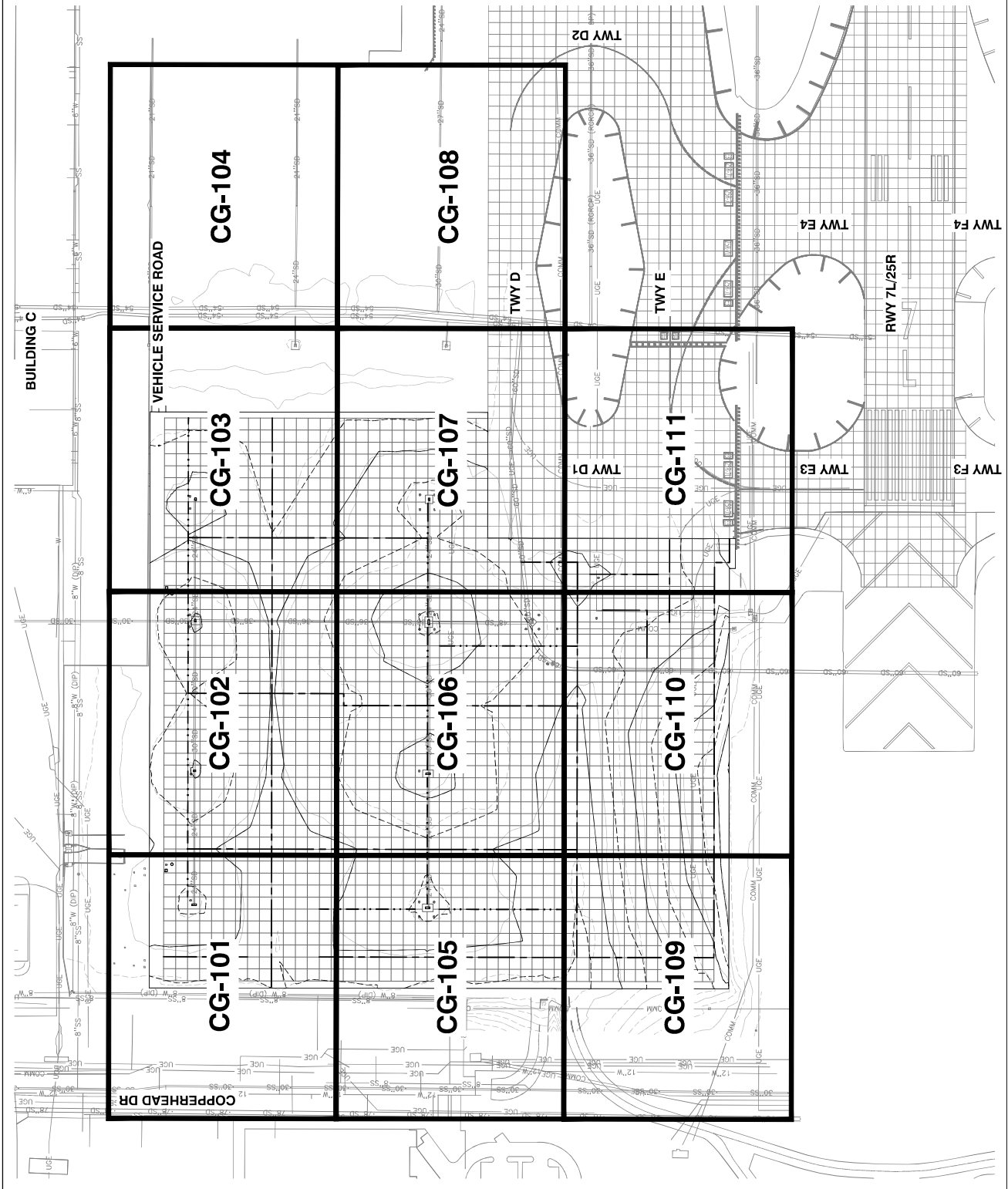
NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

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**PHOENIX SKY HARBOR
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AP No.: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

OVERALL GRADING & DRAINAGE PLAN

SHEET OVERVIEW TITLE
 SHEET NUMBER
CG-100
 SHEET 32 OF 108



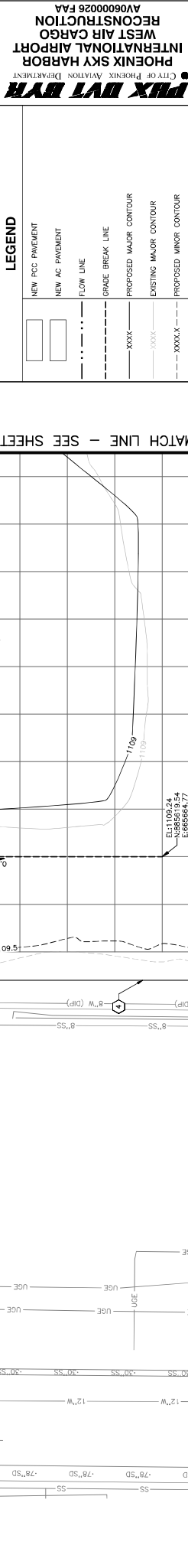
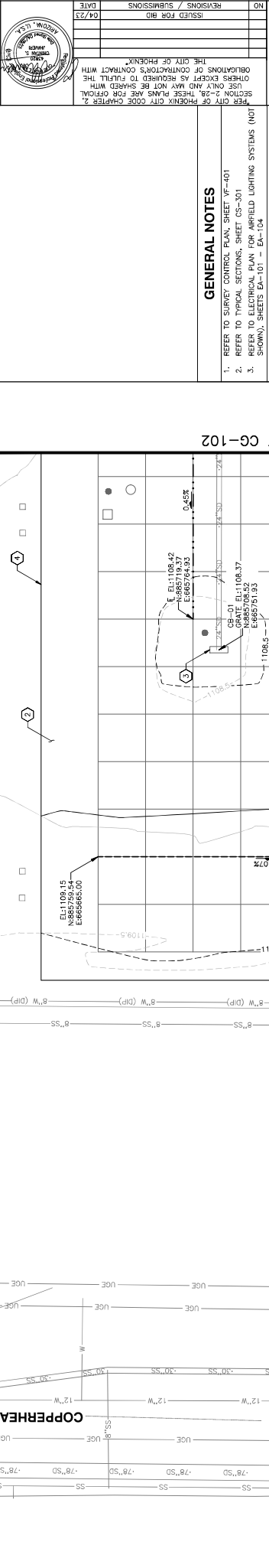
NO.	DESCRIPTION
1	CONSTRUCT POB SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-30
3	CONSTRUCT CONCRETE STORM DRAIN INLET PER DETAILS, SHEET CS-501
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301

CONSTRUCTION NOTES

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

NO.	ISSUED FOR	DATE
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Date: 04/18/2023
Checked by: C. JAHVERI
Drawn by: A. SANTILLI
Designed by: C. SHAH

SHEET OVERVIEW TITLE: **GRADING & DRAINAGE PLAN**
SHEET NUMBER: **CG-101**
SHEET TOTAL: 35 OF 105

TRAFFIC CONSULTING
 1000 N. CENTRAL AVENUE, SUITE 100
 PHOENIX, AZ 85004
 (602) 442-1111

PHOENIX CITY ENGINEERING DEPARTMENT
 1000 N. CENTRAL AVENUE, SUITE 100
 PHOENIX, AZ 85004
 (602) 442-1111

NO. _____ DATE _____
 REVISIONS / SUBMISSIONS

ISSUED FOR BID 04/23

PHOENIX SKY HARBOR WEST AIR CARGO INTERNATIONAL AIRPORT RECONSTRUCTION
 AV06000026 FAA

PHX DVT BYR
 CITY OF PHOENIX MAINTENANCE DEPARTMENT

Designed by: C. SHAH
 Drawn by: A. SANTILLI
 Checked by: C. JAHVENI
 Date: 04/18/2023
 Dwg scale: AS SHOWN
 AP NO: 2-04-0029-107-2023
 2-04-0029-106-2023

SHEET OVERVIEW TITLE
GRADING & DRAINAGE PLAN

SHEET NUMBER
CG-102

SHEET OF
 108

CONSTRUCTION NOTES

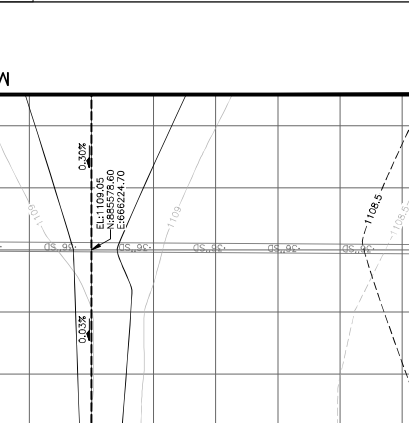
NO.	DESCRIPTION
1	CONSTRUCT POB SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT CONCRETE STORM DRAIN INLET PER DETAILS, SHEET CU-501
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
5	CONSTRUCT DOUBLE GRATE INLET AND APPROX PER DETAIL 3, SHEET CU-502

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR



CONSTRUCTION NOTES

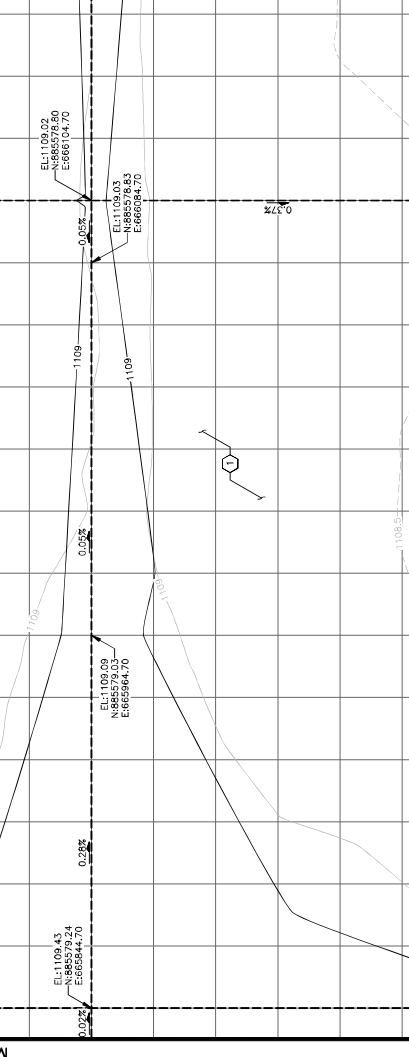
NO.	DESCRIPTION
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2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT CONCRETE STORM DRAIN INLET PER DETAILS, SHEET CU-501
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
5	CONSTRUCT DOUBLE GRATE INLET AND APPROX PER DETAIL 3, SHEET CU-502

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR



CONSTRUCTION NOTES

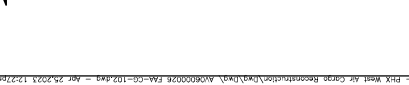
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2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT CONCRETE STORM DRAIN INLET PER DETAILS, SHEET CU-501
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
5	CONSTRUCT DOUBLE GRATE INLET AND APPROX PER DETAIL 3, SHEET CU-502

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR



TRAFFIC CONSULTING
 1000 N. CENTRAL AVENUE, SUITE 100
 PHOENIX, ARIZONA 85004
 PHONE: 602.441.1111
 FAX: 602.441.1112
 WWW.TRAFFICCONSULTING.COM

NO.	REVISIONS / SUBMISSIONS	DATE
04/23	ISSUED FOR BID	

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

PHX DVI BYR
 CITY OF PHOENIX MAINTENANCE DEPARTMENT
RECONSTRUCTION WEST AIR CARGO PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
 AV06000026 FAA

APR NO: 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

GRADING & DRAINAGE PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER: **CG-103**

NTS

SCALE: 1" = 20'

0 20' 40'

North arrow pointing up.

CONSTRUCTION NOTES

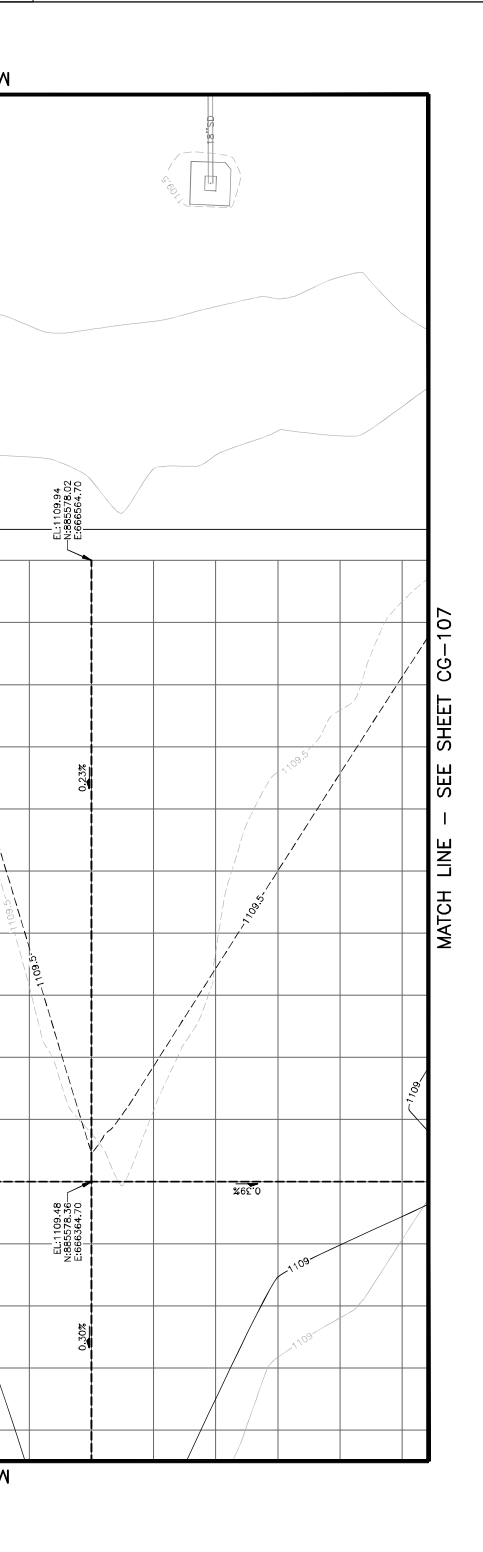
NO.	DESCRIPTION
1	CONSTRUCT POB SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT CONCRETE STORM DRAIN INLET PER DETAILS, SHEET CS-501
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR



CONSTRUCTION NOTES

NO. DESCRIPTION

TRAGE CONSULTING



NO.	DATE	REVISIONS / SUBMISSIONS
04/23		ISSUED FOR BID

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

AP NO:
 2-04-0029-107-2023
 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTIJI
 Designed by: C. SHAH

GRADING & DRAINAGE PLAN

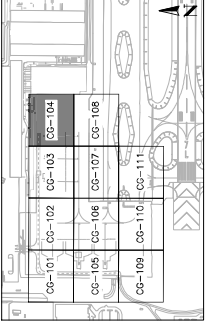
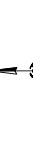
SHEET OVERVIEW TITLE
 SHEET NUMBER
CG-104
 SHEET 36 OF 105

GENERAL NOTES

1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401
2. REFER TO TYPICAL SECTIONS, SHEET CS-301
3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR

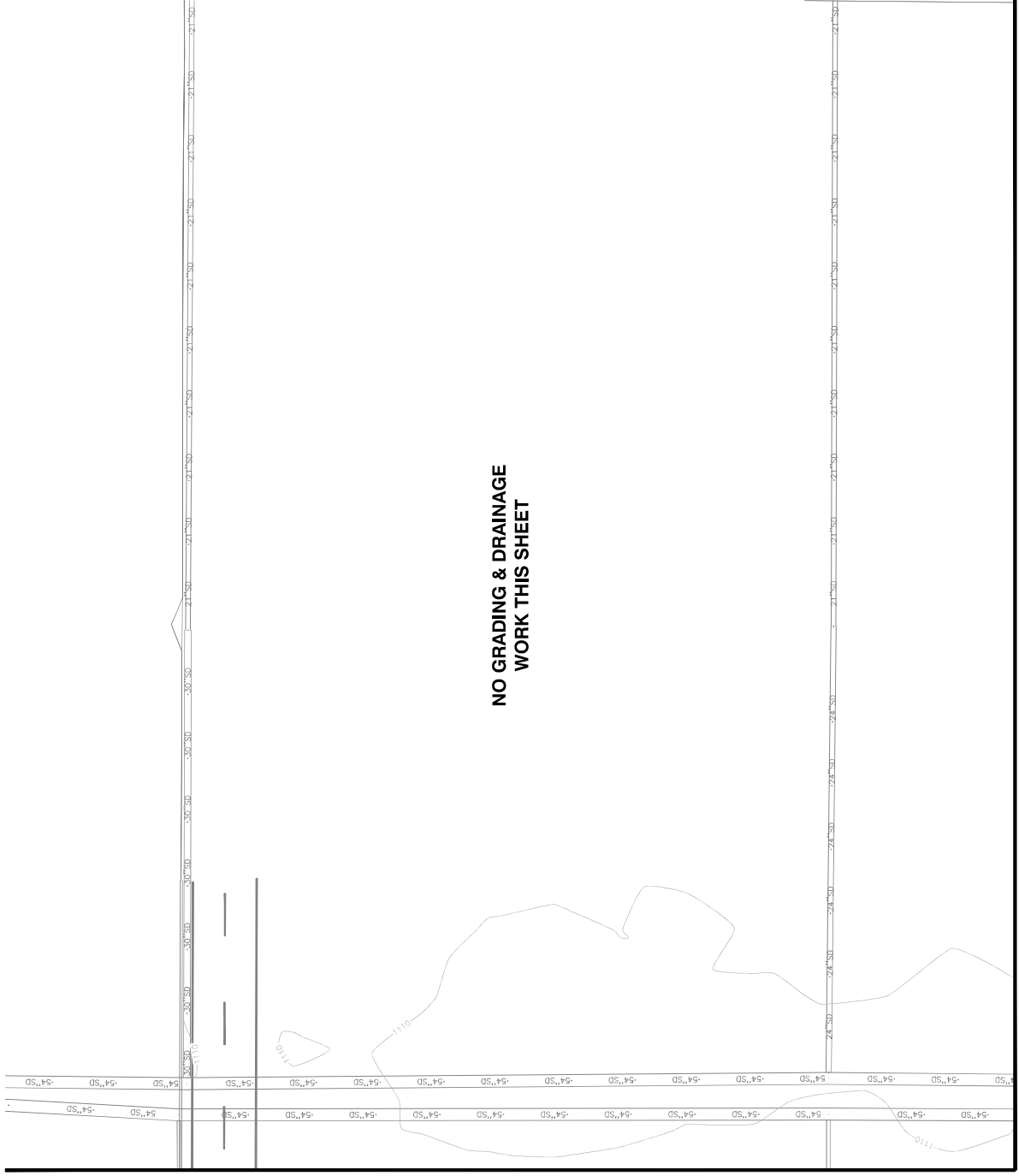


KEY MAP
 NTS

MATCH LINE - SEE SHEET CG-103

**NO GRADING & DRAINAGE
 WORK THIS SHEET**

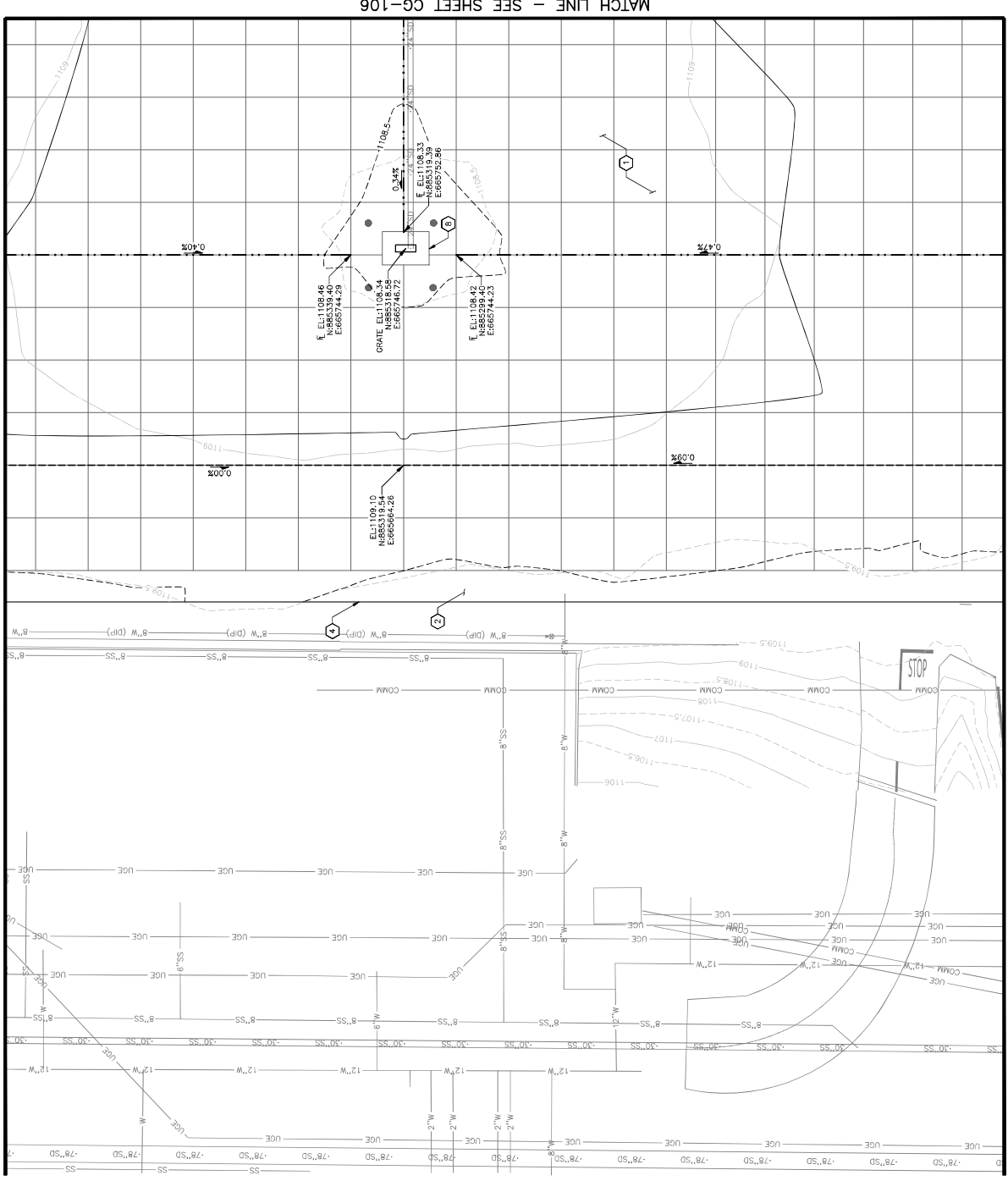
MATCH LINE -- SEE SHEET CG-108



NO. DESCRIPTION

- 1. CONSTRUCT POOR SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
- 2. CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-30
- 3. CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-501
- 4. CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-501
- 5. CONSTRUCT FOUR GRATE INLET AND APRON PER DETAIL 2, SHEET CG-502

CONSTRUCTION NOTES



DESIGNED BY: C. SHAH
DRAWN BY: A. SANTILLI
CHECKED BY: C. JHAVERI
DATE: 04/18/2023
DWG SCALE: AS SHOWN
APP NO: 2-04-0029-106-2023
2-04-0029-107-2023

PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

CITY OF PHOENIX MAINTENANCE DEPARTMENT
SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

ISSUED FOR BID / SUBMISSIONS
DATE: 04/23

APPROVED
PHOENIX CITY ENGINEER
PHOENIX, ARIZONA

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR

GENERAL NOTES

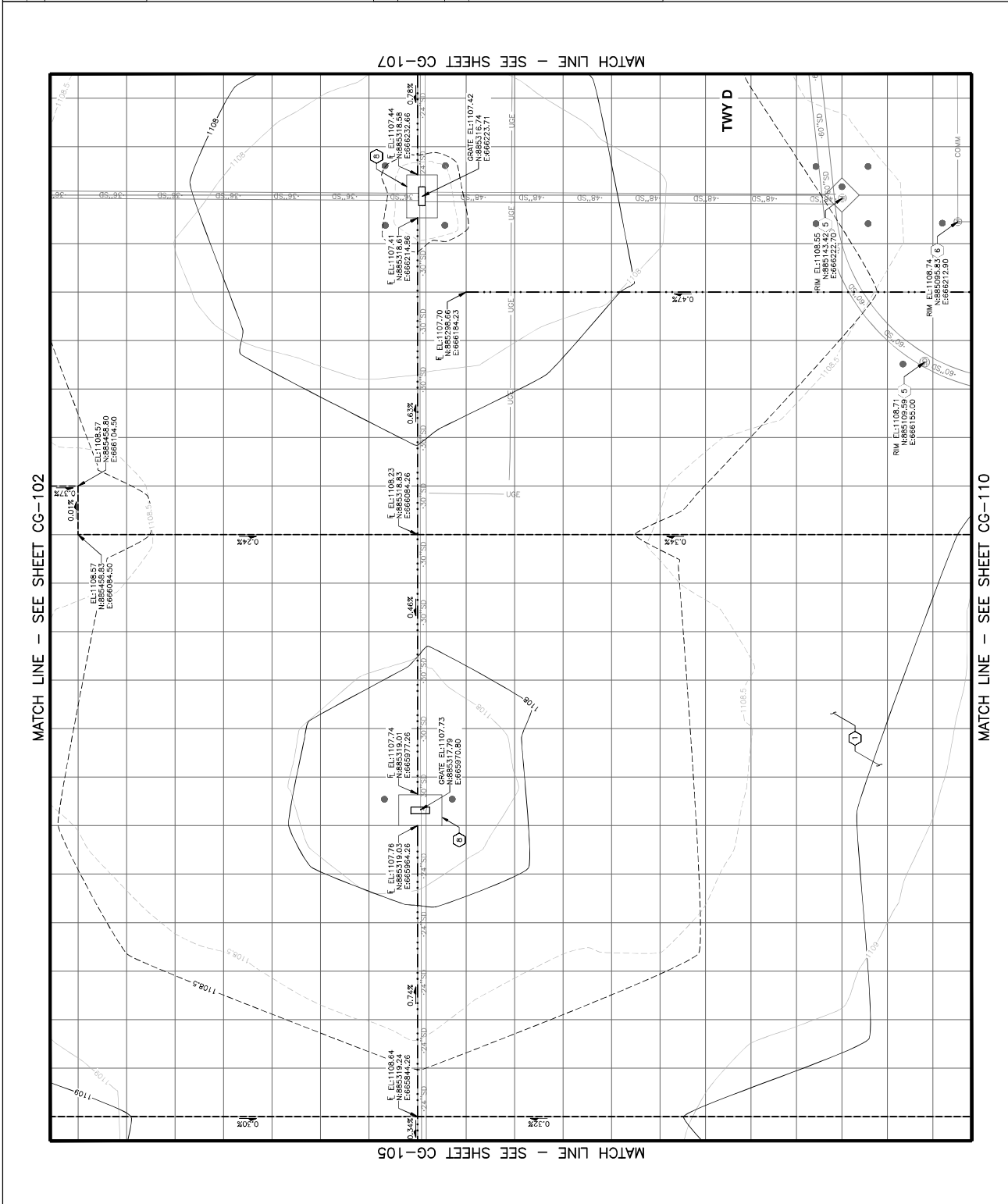
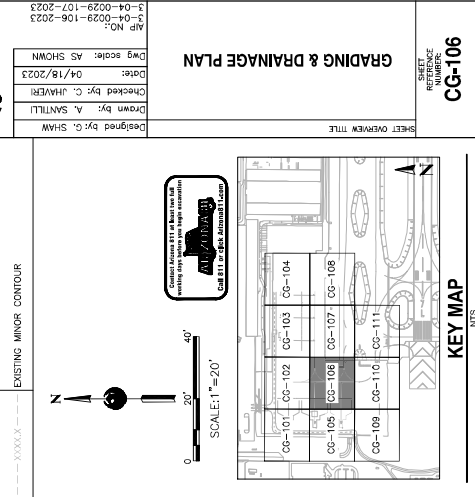
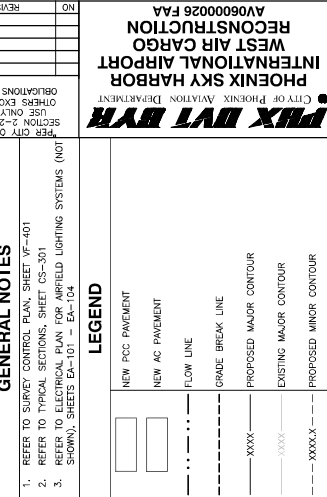
- 1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- 2. REFER TO TYPICAL SECTIONS, SHEET CS-301
- 3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

SCALE: 1" = 20'

KEY MAP

SHEET OVERVIEW TITLE

SHEET NUMBER: CG-105
SHEET 37 OF 108



NO.	DESCRIPTION
1	CONSTRUCT POOR SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-501
4	CONSTRUCT DOUBLE GRADE INLET AND APRON PER DETAIL 3, SHEET CU-502

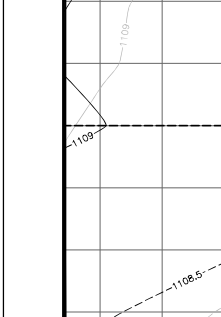
CONSTRUCTION NOTES

GENERAL NOTES

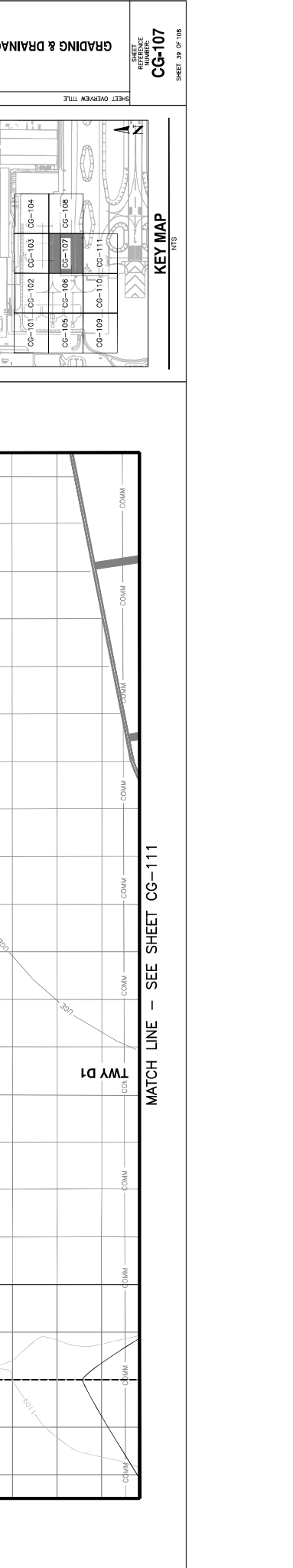
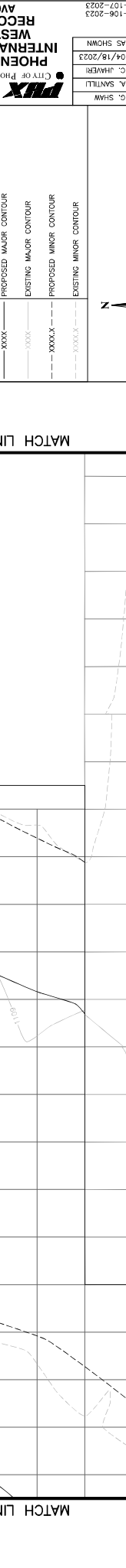
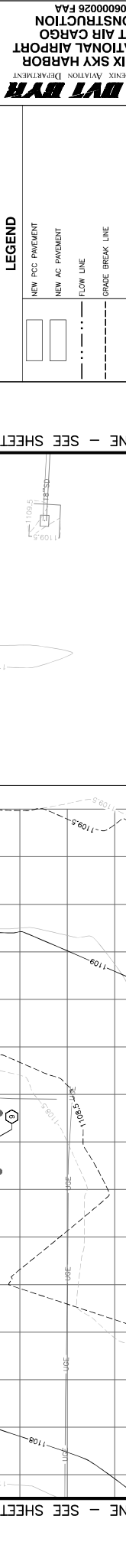
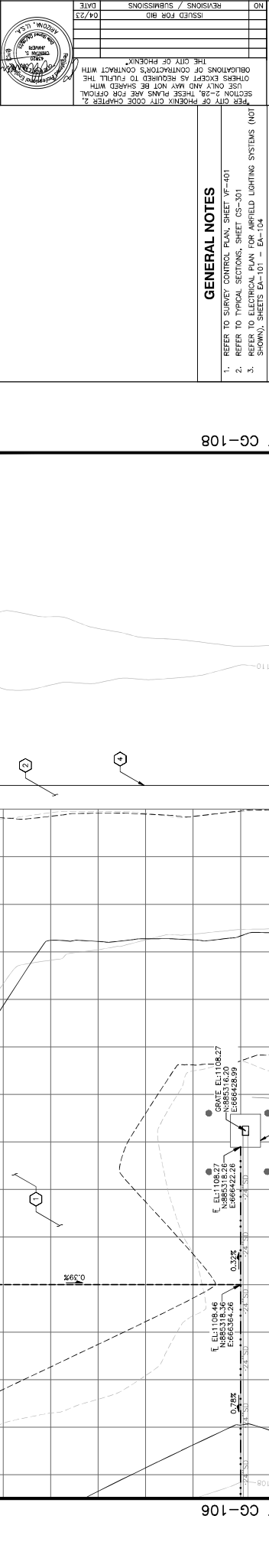
- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR



KEY MAP
NTS



PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT
AV06000026 FAA

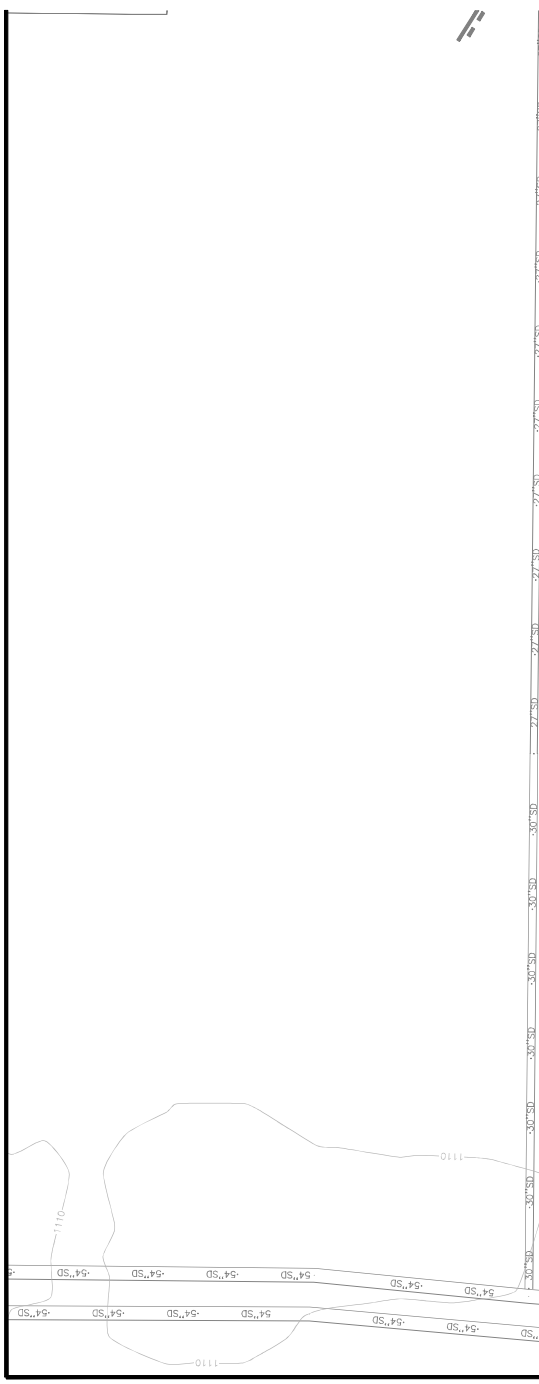
DESIGNED BY: C. SHAH
CHECKED BY: A. SANTILLI
DATE: 04/18/2023
DRAWN BY: C. JAHVERI
SCALE: AS SHOWN
SHEET OVERVIEW TITLE: GRADING & DRAINAGE PLAN

AP NO: 2-04-0029-106-2023
SHEET NUMBER: CG-107
SHEET 39 OF 108

CONSTRUCTION NOTES

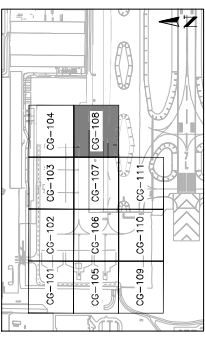
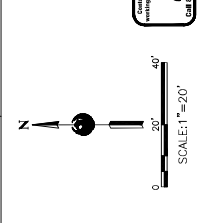
DESCRIPTION

NO.



**NO GRADING & DRAINAGE
WORK THIS SHEET**

- LEGEND**
- NEW PCC PAVEMENT
 - NEW AC PAVEMENT
 - FLOW LINE
 - GRADE BREAK LINE
 - PROPOSED MAJOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - EXISTING MINOR CONTOUR



KEY MAP
NTS



NO.	ISSUED FOR	DATE
04/23	REVISIONS / SUBMISSIONS	

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

Designed by: C. SHAH
Drawn by: A. SANTILLI
Checked by: C. JAHVERI
Date: 04/18/2023
Dwg scale: AS SHOWN
AP NO: 3-04-0029-106-2023
3-04-0029-107-2023

GRADING & DRAINAGE PLAN

SHEET OVERVIEW TITLE
SHEET NUMBER
CG-108
SHEET 40 OF 108

TRAFFIC CONSULTING
1000 N. CENTRAL AVENUE, SUITE 1000
PHOENIX, AZ 85004
TEL: 602.441.1111

PHOENIX SKY HARBOR RECONSTRUCTION WEST AIR CARGO INTERNATIONAL AIRPORT
AV06000026 FAA

City of Phoenix Aviation Department
Phoenix Sky Harbor International Airport
Phoenix, Arizona

CONSTRUCTION NOTES

NO. DESCRIPTION

1. CONSTRUCT POB SECTION PER STRUCTURAL SECTION 1, SHEET CS-301

2. CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301

GENERAL NOTES

1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401

2. REFER TO TYPICAL SECTIONS, SHEET CS-301

3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

NEW PCC PAVEMENT

NEW AC PAVEMENT

FLOW LINE

GRADE BREAK LINE

PROPOSED MAJOR CONTOUR

EXISTING MAJOR CONTOUR

PROPOSED MINOR CONTOUR

EXISTING MINOR CONTOUR

KEY MAP
NTS

SCALE: 1" = 20'

ISSUED FOR BID 04/23

REVISIONS / SUBMISSIONS

NO.

AP NO. 2-04-0029-106-2023

Dwg scale: AS SHOWN

Date: 04/18/2023

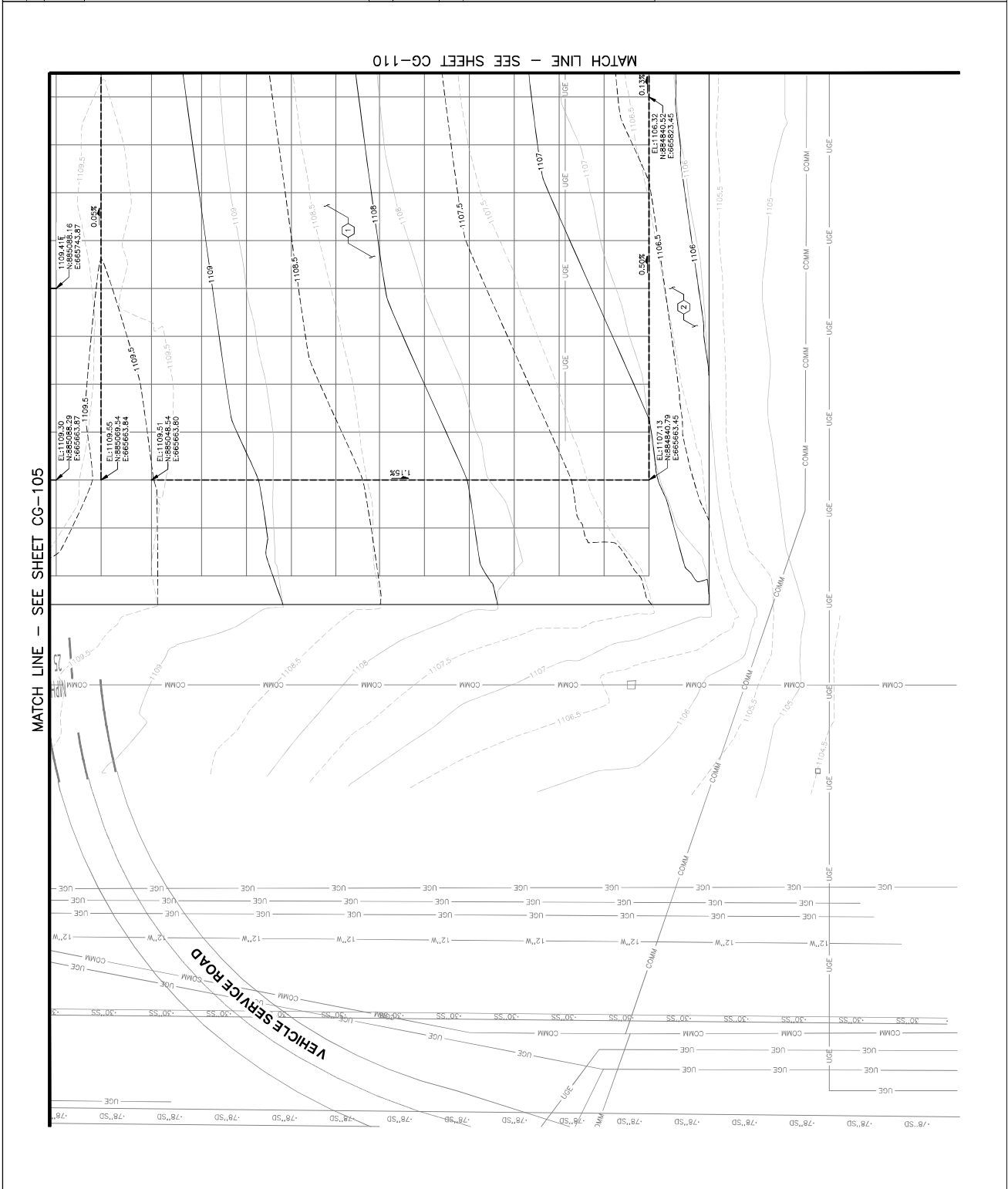
Checked by: C. JAHVENI

Drawn by: A. SANTILLI

Designed by: C. SHAH

SHEET OVERVIEW TITLE

SHEET NUMBER: **CG-109**
SHEET TOTAL: 41 OF 108



CONSTRUCTION NOTES

NO.	DESCRIPTION
1	CONSTRUCT POOR SECTION PER STRUCTURAL SECTION 1, SHEET CS-301
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
4	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
5	CONSTRUCT ELECTRICAL PLANS FOR ELECTRICAL CONSTRUCTION NOTES

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR

KEY MAP

CONSTRUCTION NOTES

1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401

2. REFER TO TYPICAL SECTIONS, SHEET CS-301

3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR

KEY MAP

DESIGNED BY: C. SHAW
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DRAWING SCALE: AS SHOWN
 DRAWING NO.: 2-04-0029-106-2023

CONSTRUCTION NOTES

1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401

2. REFER TO TYPICAL SECTIONS, SHEET CS-301

3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
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KEY MAP

CONSTRUCTION NOTES

1. REFER TO SURVEY CONTROL PLAN, SHEET VF-401

2. REFER TO TYPICAL SECTIONS, SHEET CS-301

3. REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR

KEY MAP

DESIGNED BY: C. SHAW
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DRAWING SCALE: AS SHOWN
 DRAWING NO.: 2-04-0029-106-2023

NO. 2022/22001 - PHX WEST AIR CARGO RECONSTRUCTION

PHX INTL AIRPORT

PHOENIX SKY HARBOR

WEST AIR CARGO RECONSTRUCTION

AV06000026 FAA

ISSUED FOR BID 04/23

REVISIONS / SUBMISSIONS

TRAFFIC CONSULTING
 1000 N. CENTRAL AVENUE, SUITE 100
 PHOENIX, AZ 85004
 PHONE: 602.441.1111
 FAX: 602.441.1112
 WWW.TRAFFICCONSULTING.COM



NO.	REVISIONS / SUBMISSIONS	DATE

PHX DVT BYR
 CITY OF PHOENIX MAINTENANCE DEPARTMENT
RECONSTRUCTION WEST AIR CARGO PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
 AV06000026 FAA

APR NO: 2-04-0029-106-2023
 DWG NO: 04/18/2023
 DATE: 04/18/2023
 CHECKED BY: C. JAHVENI
 DRAWN BY: A. SANTILLI
 DESIGNED BY: C. SHAW

GRADING & DRAINAGE PLAN

DESIGNED BY: C. SHAW
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DWG NO: 04/18/2023
 APR NO: 2-04-0029-106-2023

SHEET OVERVIEW TITLE

SHEET NUMBER: **CG-111**
 SHEET OF: 105

CONSTRUCTION NOTES

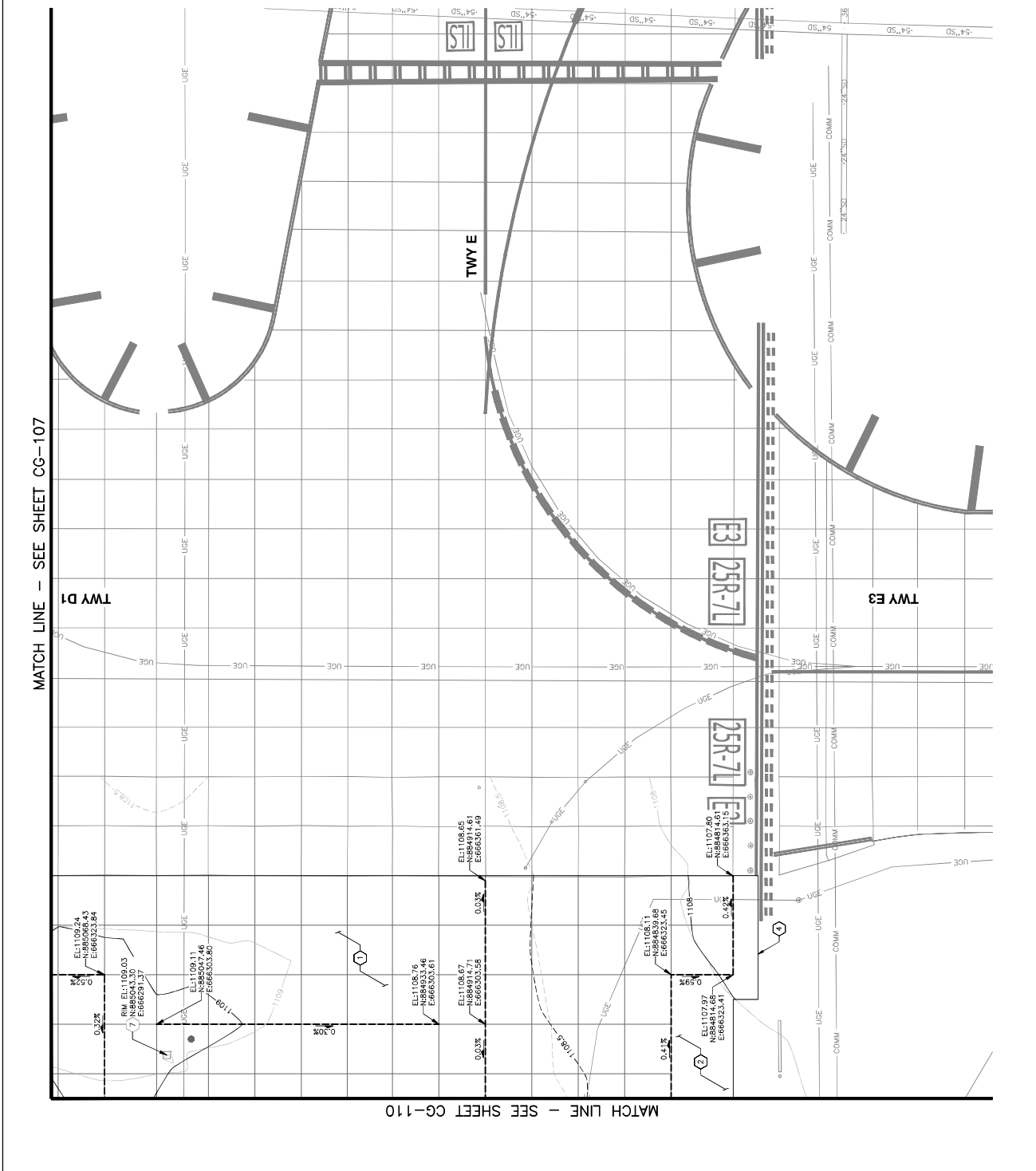
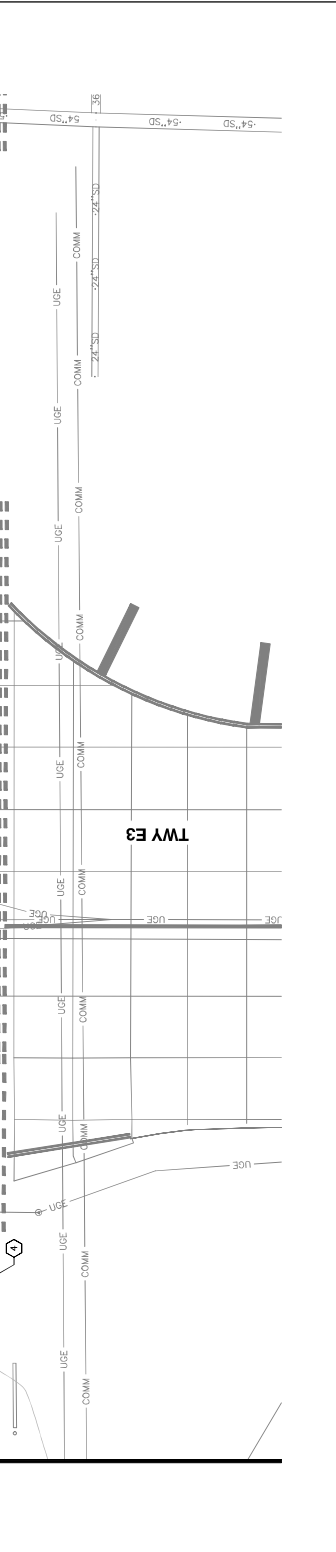
NO.	DESCRIPTION
1	CONSTRUCT POB SECTION PER STRUCTURAL SECTION 1, SHEET CS-30
2	CONSTRUCT ASPHALT CONCRETE SECTION PER STRUCTURAL SECTION 2, SHEET CS-301
3	CONSTRUCT ASPHALT PAVEMENT MATCH SEAL PER DETAIL 1, SHEET CS-301
4	CONSTRUCT CONCRETE HANGHOLE APRON PER DETAIL 2, SHEET CS-502

GENERAL NOTES

- REFER TO SURVEY CONTROL PLAN, SHEET VF-401
- REFER TO TYPICAL SECTIONS, SHEET CS-301
- REFER TO ELECTRICAL PLAN FOR AIRFIELD LIGHTING SYSTEMS (NOT SHOWN), SHEETS EA-101 - EA-104

LEGEND

- NEW PCC PAVEMENT
- NEW AC PAVEMENT
- FLOW LINE
- GRADE BREAK LINE
- PROPOSED MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MINOR CONTOUR





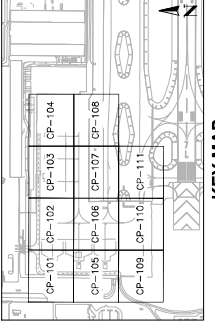
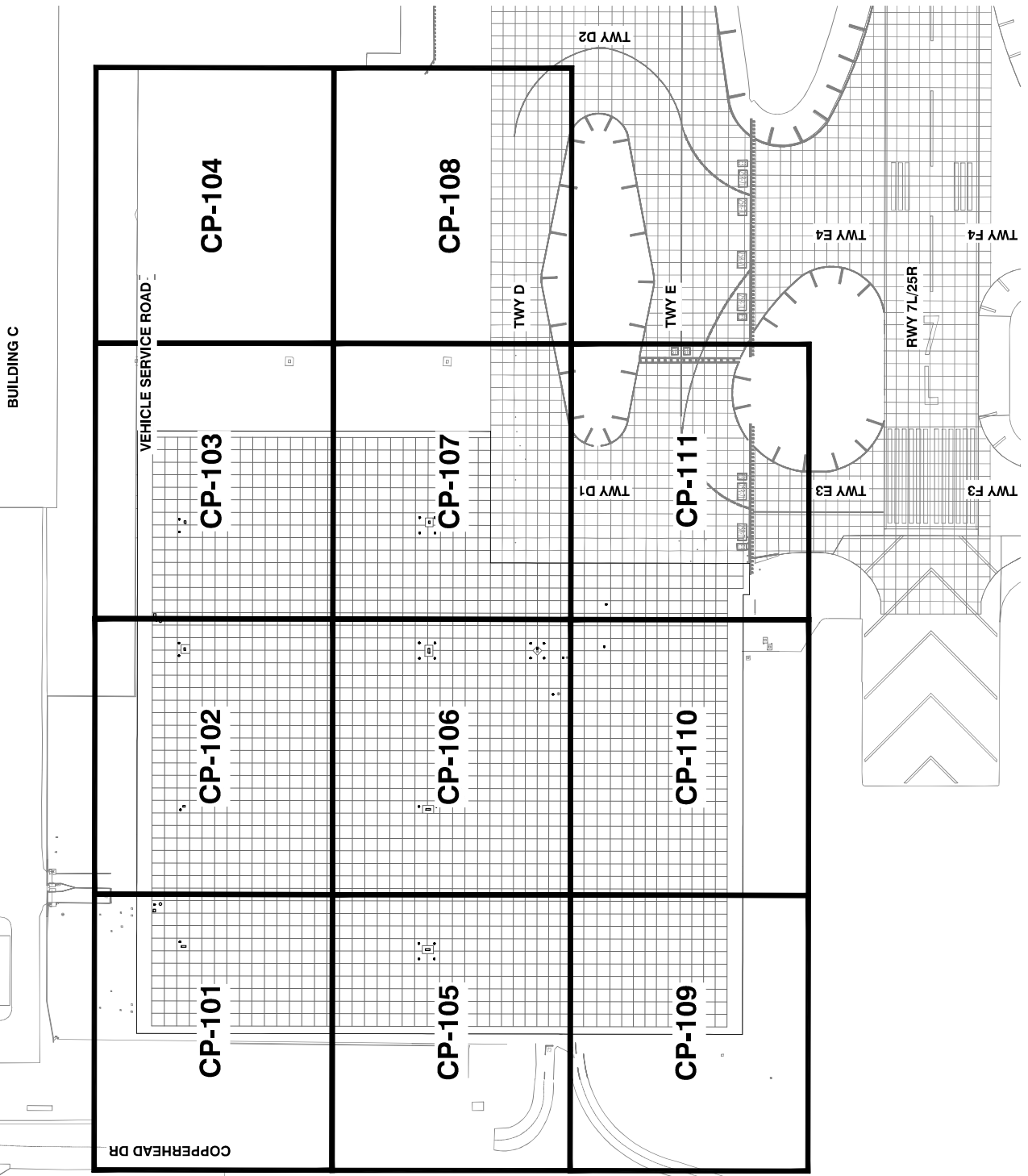
NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT
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AP NO: 2-04-0029-106-2023
2-04-0029-107-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAVIER
Drawn by: A. SANTILLI
Designed by: C. SHAW

**OVERALL PAVING & JOINT
LAYOUT PLAN**

SHEET OVERVIEW TITLE
SHEET NUMBER
CP-100
SHEET 44 OF 108



COPPERHEAD DR

BUILDING C

VEHICLE SERVICE ROAD

CP-104

CP-108

CP-103

CP-107

CP-102

CP-106

CP-101

CP-105

CP-110

CP-109

CP-111

TWY D

TWY D1

TWY D2

TWY E

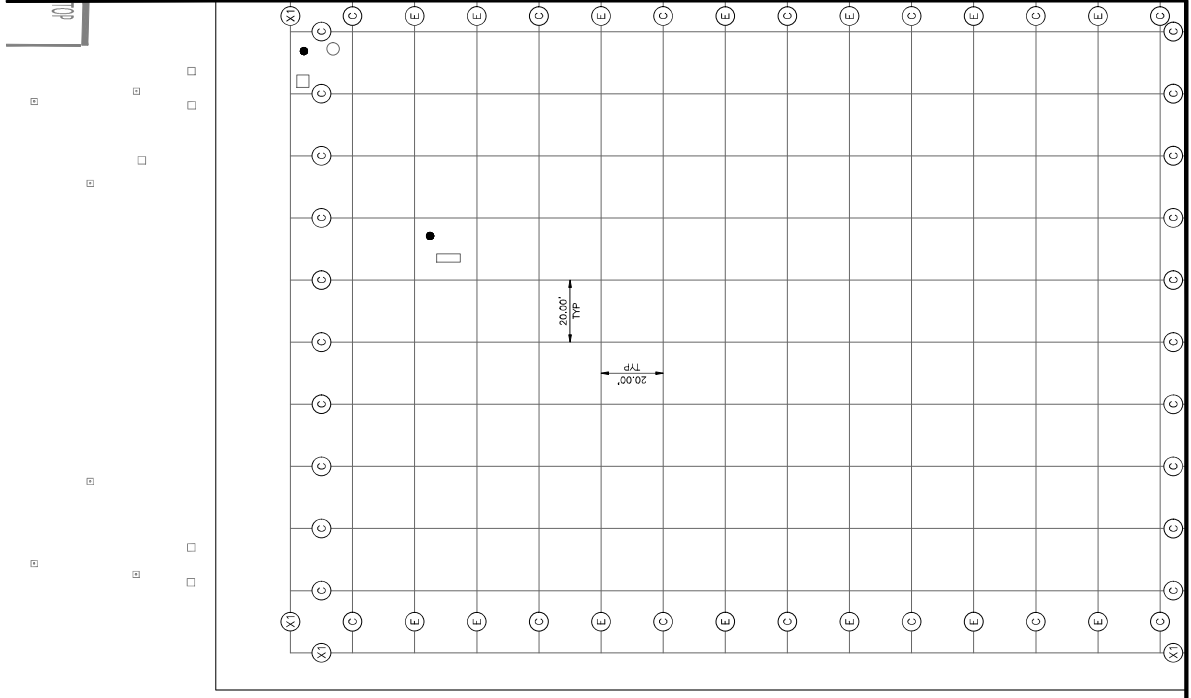
TWY E3

TWY E4

TWY F3

TWY F4

RWY 7L/25R



- LEGEND**
- (X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
 - (X2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
 - (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
 - (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
 - (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
 - REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

- GENERAL NOTES**
1. FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
 2. ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED
 3. ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED
 4. TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR
 5. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE INTERCHANGED WITH TYPE E JOINTS UNLESS SPECIFIED OTHERWISE BY THE RFR. JOINTS SHALL BE PLACED AT 10-FOOT SPACING UNLESS OTHERWISE SPECIFIED. JOINTS SHALL BE PLACED PERPENDICULAR TO THE DIRECTION OF TRAFFIC UNLESS OTHERWISE SPECIFIED BY THE CONTRACTOR WITH AN ADDITIONAL COST TO THE OWNER
 6. ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH #4 BARS. BEERS SHALL BE IMMEDIATELY AFTER SAWCUTTING BY VACUATING THE SLURRY
 7. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 0.50" IN EACH PANEL. UNWELDED DOWEL BARS SHALL BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER
 8. ALL JOINTS SHALL BE REINFORCED WITH #4 BARS FOR JOINTS AROUND LEGS/COMA MANHOLES THAT ARE TO REMAIN IN PLACE AFTER RELOCATIONS
 9. CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT ALL JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION

TRAFFIC CONSULTING

REGISTERED PROFESSIONAL ENGINEER
 STATE OF ARIZONA
 LICENSE NO. 12345

NO.	ISSUED FOR RFD	REVISIONS / SUBMISSIONS	DATE

PHOENIX SKY HARBOR RECONSTRUCTION WEST AIR CARGO INTERNATIONAL AIRPORT

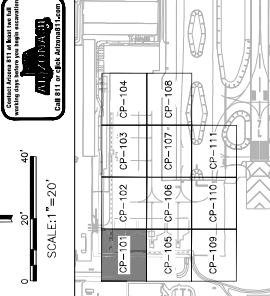
PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 SECTION 2-08, THESE PLANS ARE FOR OFFICIAL OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

AP NO: 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVRI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

PAVING & JOINT LAYOUT PLAN

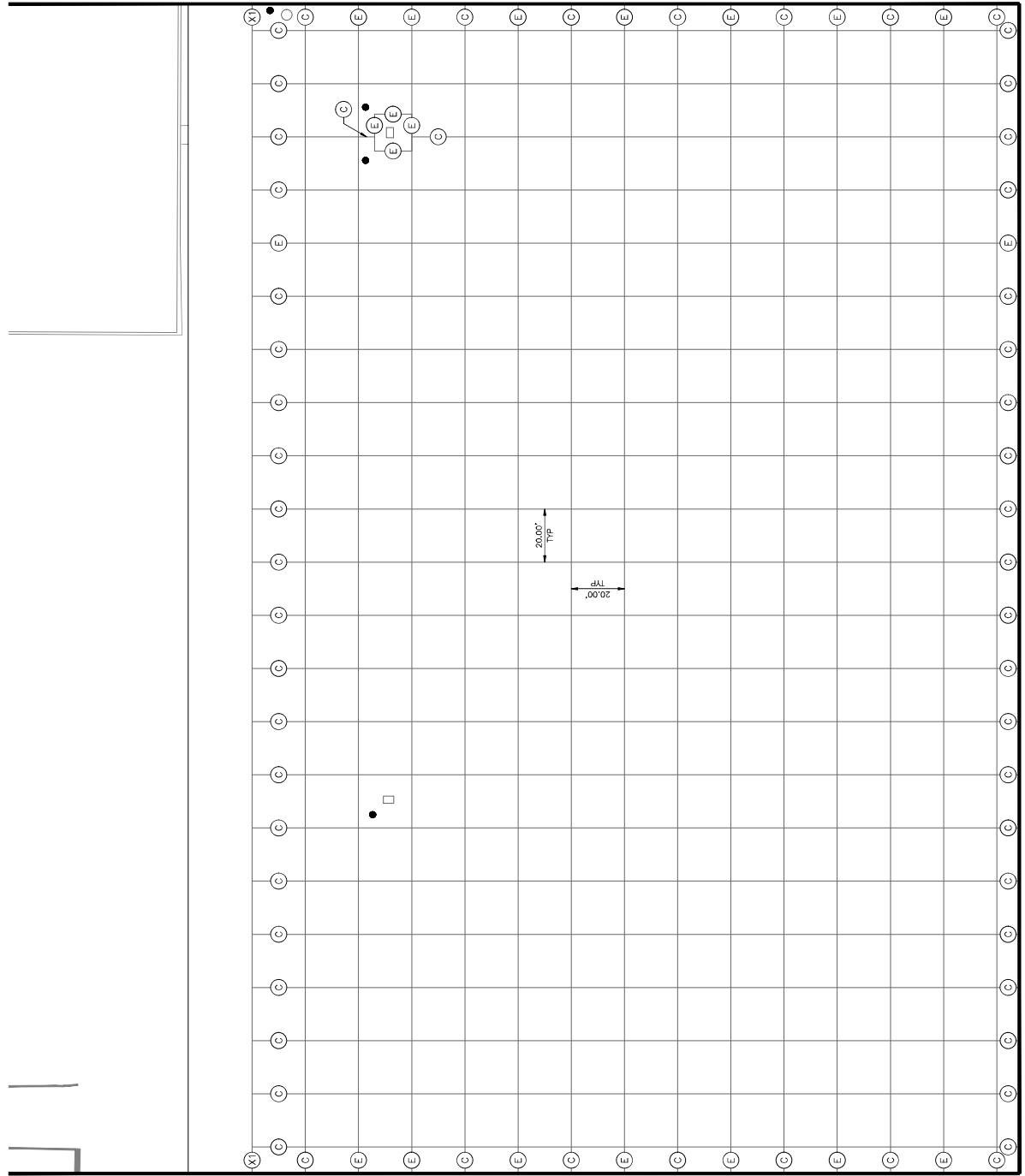
SHEET OVERVIEW TITLE

SHEET NUMBER: CP-101
 SHEET OF: 108



COPPERHEAD DR

MATCH LINE -- SEE SHEET CP-105



LEGEND

- TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
- TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
- TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
- TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
- TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
- REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

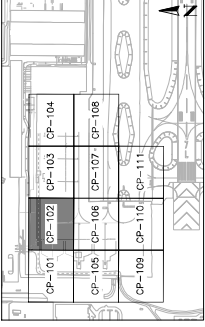
1. FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
2. ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED AND REINFORCED WITH REINFORCING BARS.
3. ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED AND REINFORCED WITH REINFORCING BARS.
4. TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
5. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE LOCATED BY THE CENTERLINE OF THE PAVEMENT. JOINTS SHALL BE PLACED AT A MINIMUM OF 10 FEET FROM THE CENTERLINE. JOINTS SHALL BE PLACED AT A MINIMUM OF 1 1/2-INCH VARIATION IN 10-FEET ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN REGULAR SLABS SHALL BE RELOCATED AT THE DISCRETION OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
6. ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REMOVED IMMEDIATELY AFTER THE JOINTS ARE SAWCUT BY VACUATING THE SLURRY.
7. DOWEL BARS SHALL NOT WARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 50' IN EACH PANEL. UNLOADED DOWEL BARS SHALL BE PLACED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
8. AFTER RELOCATIONS, ALL JOINTS SHALL BE REINFORCED WITH REINFORCING BARS AND BARS SHALL REMAIN IN PLACE AROUND ELEG/COMA MANHOLES THAT ARE TO REMAIN IN PLACE.
9. CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS AND SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

TRAFFIC CONSULTANTS
CONSULTING



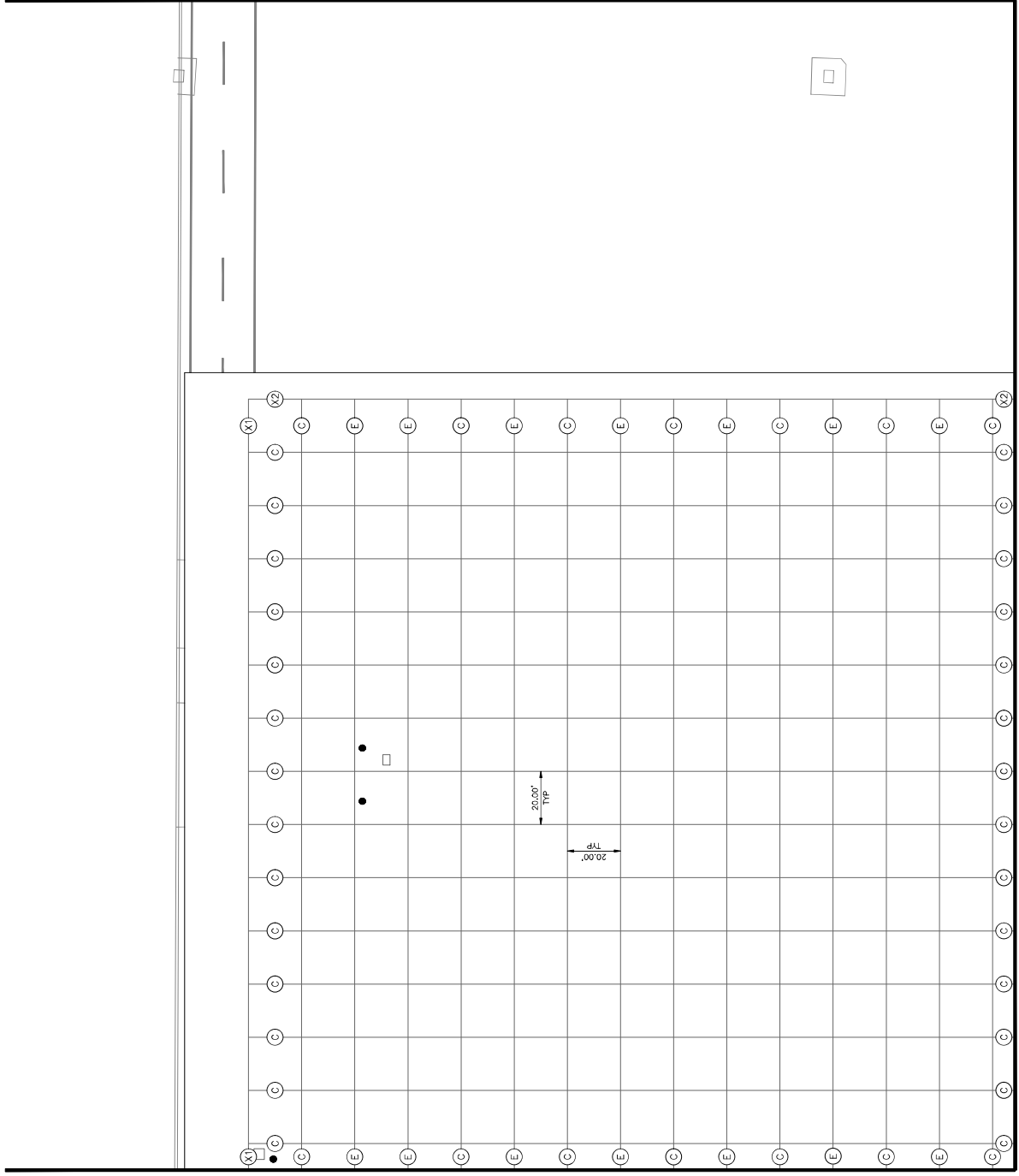
NO	ISSUED FOR RFD	REVISIONS / SUBMISSIONS	DATE

PHOENIX SKY HARBOR RECONSTRUCTION WEST AIR CARGO INTERNATIONAL AIRPORT
PHX INT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 SECTION 2-28 THESE PLANS ARE FOR OFFICIAL OBLIGATIONS OF CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.
 OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.
 AP NO: 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVRI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW



KEY MAP
NTS

SHEET OVERVIEW TITLE
PAVING & JOINT LAYOUT PLAN
 SHEET NUMBER
CP-102
 SHEET NO. OF TOTAL SHEETS
46 OF 108



MATCH LINE - SEE SHEET CP-104

MATCH LINE -- SEE SHEET CP-107

- LEGEND**
- (X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
 - (X2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
 - (C) TYPE C DOWELED CONSTRUCTION JOINT, SEE DETAIL C, SHEET CP-501
 - (E) TYPE E DOWELED CONSTRUCTION JOINT, SEE DETAIL E, SHEET CP-501
 - (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
 - REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

- GENERAL NOTES**
1. FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
 2. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE DOWELED PER DETAIL C.
 3. ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED PER DETAIL E.
 4. TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
 5. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE INTERCHANGED WITH PERFORATED CONCRETE PAVEMENT (P-502) JOINTS. PERFORATED CONCRETE SHALL BE 7/8" TO 1" THICK WITH A MINIMUM 1/4-INCH VARIATION IN 10-FOOT ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN REGULAR SLABS. PERFORATED CONCRETE JOINTS SHALL BE APPROVED BY THE CONTRACTOR WITH AN ADDITIONAL COST TO THE OWNER.
 6. ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 2#4 BARS. THE BEERS SHALL BE IMMEDIATELY AFTER SAWCUTTING BY VACUATING THE SLURRY.
 7. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 0.50" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REWORKED TO BE IN ALIGNMENT WITH THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
 8. AFTER RELOCATIONS, ALL MANHOLES SHALL BE REWORKED FOR JOINTS, AROUND ELEC/COM MANHOLES THAT ARE TO REMAIN IN PLACE.
 9. CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT ALL JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

TRAFFIC CONSULTING

REGISTERED PROFESSIONAL ENGINEER
 STATE OF ARIZONA
 LICENSE NO. 12000

NO.	ISSUED FOR RFD	REVISIONS / SUBMISSIONS	DATE

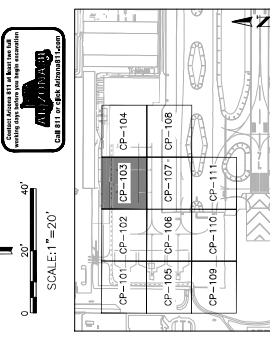
PHX DVI BYR
 CITY OF PHOENIX MAINTENANCE DEPARTMENT
RECONSTRUCTION WEST AIR CARGO INTERNATIONAL AIRPORT
 PHOENIX SKY HARBOR
 AV06000026 FAA

APR NO:	2-04-0029-106-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JAHVENI
Drawn by:	A. SANTILLI
Designed by:	C. SHAH

SHEET OVERVIEW TITLE
PAVING & JOINT LAYOUT PLAN

SHEET NUMBER
CP-103

SHEET 47 OF 108





NO	REVISIONS / SUBMISSIONS	DATE

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

AP NO:	2-04-0029-106-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JHAVERI
Drawn by:	A. SANTILLI
Designed by:	C. SHAH

DESIGNED BY: C. SHAH
DRAWN BY: A. SANTILLI
CHECKED BY: C. JHAVERI
DATE: 04/18/2023
DWG SCALE: AS SHOWN
AP NO: 2-04-0029-106-2023

SHEET OVERVIEW TITLE
PAVING & JOINT LAYOUT PLAN
SHEET NUMBER
CP-104
SHEET 48 OF 108

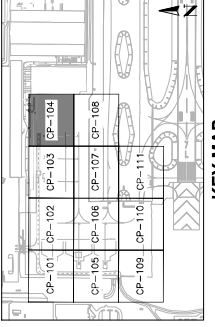
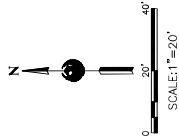
LEGEND

- (X) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
- (Z) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
- (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
- (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
- (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
- REINFORCED RCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

1. FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
2. ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED AS SHOWN.
3. ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED AS SHOWN.
4. TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
5. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT VARY MORE THAN 1/8" FROM THEIR SPACED POSITION. JOINTS SHALL BE TRUED TO WITHIN 1/4" TOLERANCE. 1/4"-INCH VARIATION IN 10'-FEET ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN REGULAR SLABS SHALL BE CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
6. ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REWORKED TO THE ORIGINAL JOINT SIZE IMMEDIATELY AFTER SAWCUTTING BY VACUATING THE SLURRY.
7. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 10'-0" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REWORKED TO THE ORIGINAL JOINT POSITION. THE PC/PF TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
8. AFTER RELOCATIONS, ALL JOINTS SHALL BE REWORKED FOR JOINTING AROUND LEG/CORNER MANHOLES THAT ARE TO REMAIN IN PLACE.
9. CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT ALL JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

NO PAVING & JOINT
WORK THIS SHEET



KEY MAP
NTS

MATCH LINE - SEE SHEET CP-103

MATCH LINE -- SEE SHEET CP-108

LEGEND

- (X) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
- (Z) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
- (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
- (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
- (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
- REINFORCED RCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
- ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED WITH TYPE E JOINTS UNLESS OTHERWISE NOTED.
- TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
- PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE MORE THAN 12 FEET FROM THE PREVIOUS JOINT. JOINTS SHALL BE 7 FEET TO 10 FEET FROM CURBS AND 1/4-INCH VARIATION IN 10-FEET ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN IRREGULAR SLABS SHALL BE CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 1#4 BARS AND SHALL BE IMMEDIATELY AFTER SAWCUTTING BY VACUUMING THE SLURRY.
- DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 0.50" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
- ALL JOINTS SHALL BE REINFORCED WITH 1#4 BARS FOR JOINTS AROUND LEG/CORNER MANHOLES THAT ARE TO REMAIN IN PLACE AFTER RELOCATIONS.
- CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION
 AV06000026 FAA

AP NO:	2-04-0029-106-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JHAVERI
Drawn by:	A. SANTILLI
Designed by:	C. SHAH

PAVING & JOINT LAYOUT PLAN

SECTION 2-08, THESE PLANS ARE FOR OFFICIAL OBLIGATIONS OF CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.

OTHERS EXCEPT AS REQUIRED BY CONTRACTOR TO FULFILL THE OBLIGATIONS OF CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.

NO REVISIONS / SUBMISSIONS

DATE: 04/23

ISSUED FOR BID

DESIGNED BY: C. SHAH

CHECKED BY: A. SANTILLI

DATE: 04/18/2023

DRAWN BY: C. JHAVERI

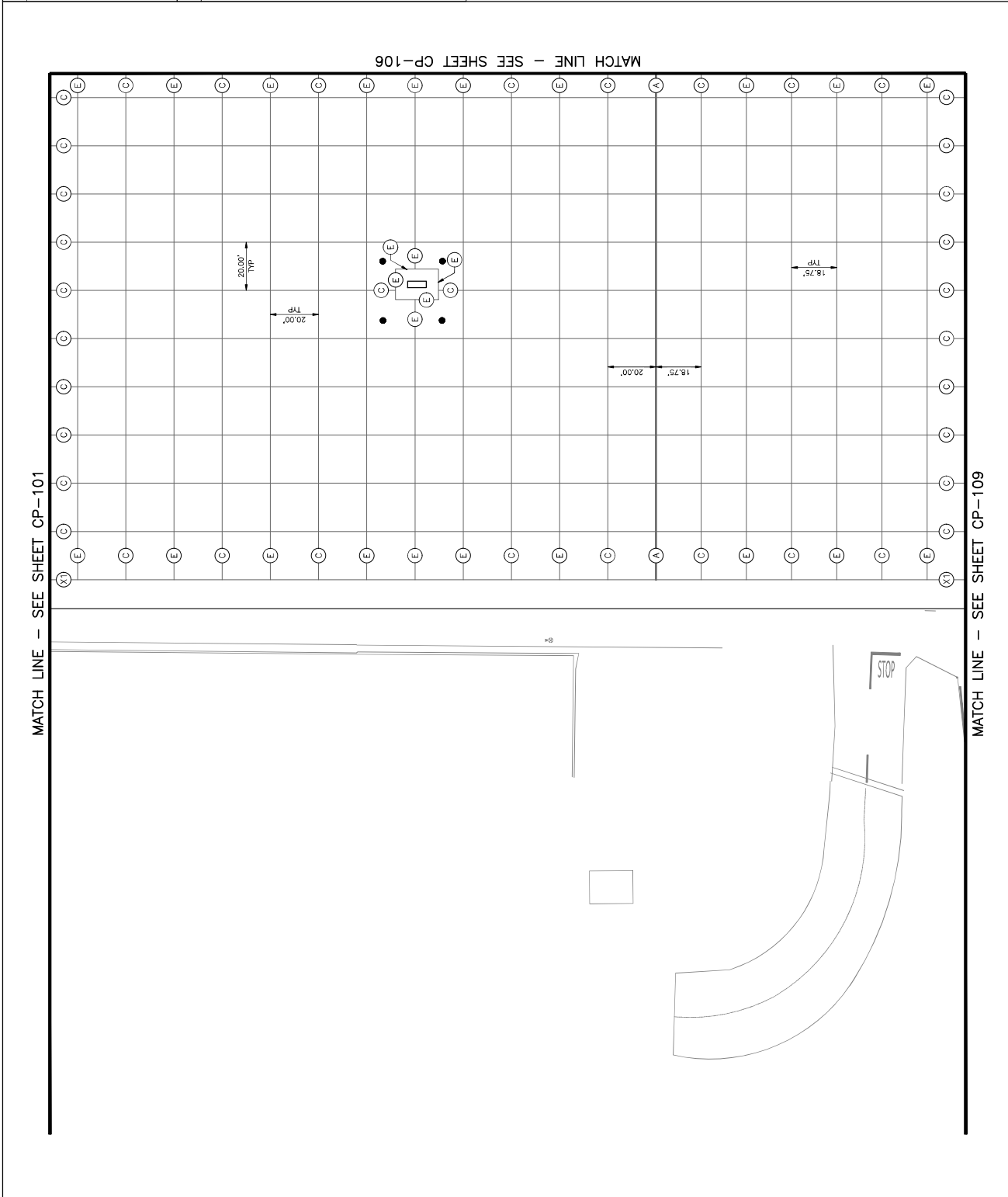
SCALE: AS SHOWN

AP NO: 2-04-0029-106-2023

SHEET OVERVIEW TITLE

SHEET NUMBER: CP-105

SHEET OF: 105



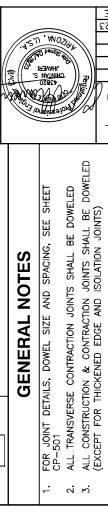
KEY MAP
 NTS

SCALE: 1" = 20'

0 20' 40'

CONTRACT SECTION 211 IS NOT TO BE CONSIDERED UNLESS SHOWN ON THIS LAYOUT.

CP-101 CP-102 CP-103 CP-104
 CP-105 CP-106 CP-107 CP-108
 CP-109 CP-110 CP-111



NO.	REVISIONS / SUBMISSIONS	DATE

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

AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVRI
 Drawn by: A. SANTILLI
 Designed by: C. SHAH

PAVING & JOINT LAYOUT PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER: **CP-106**

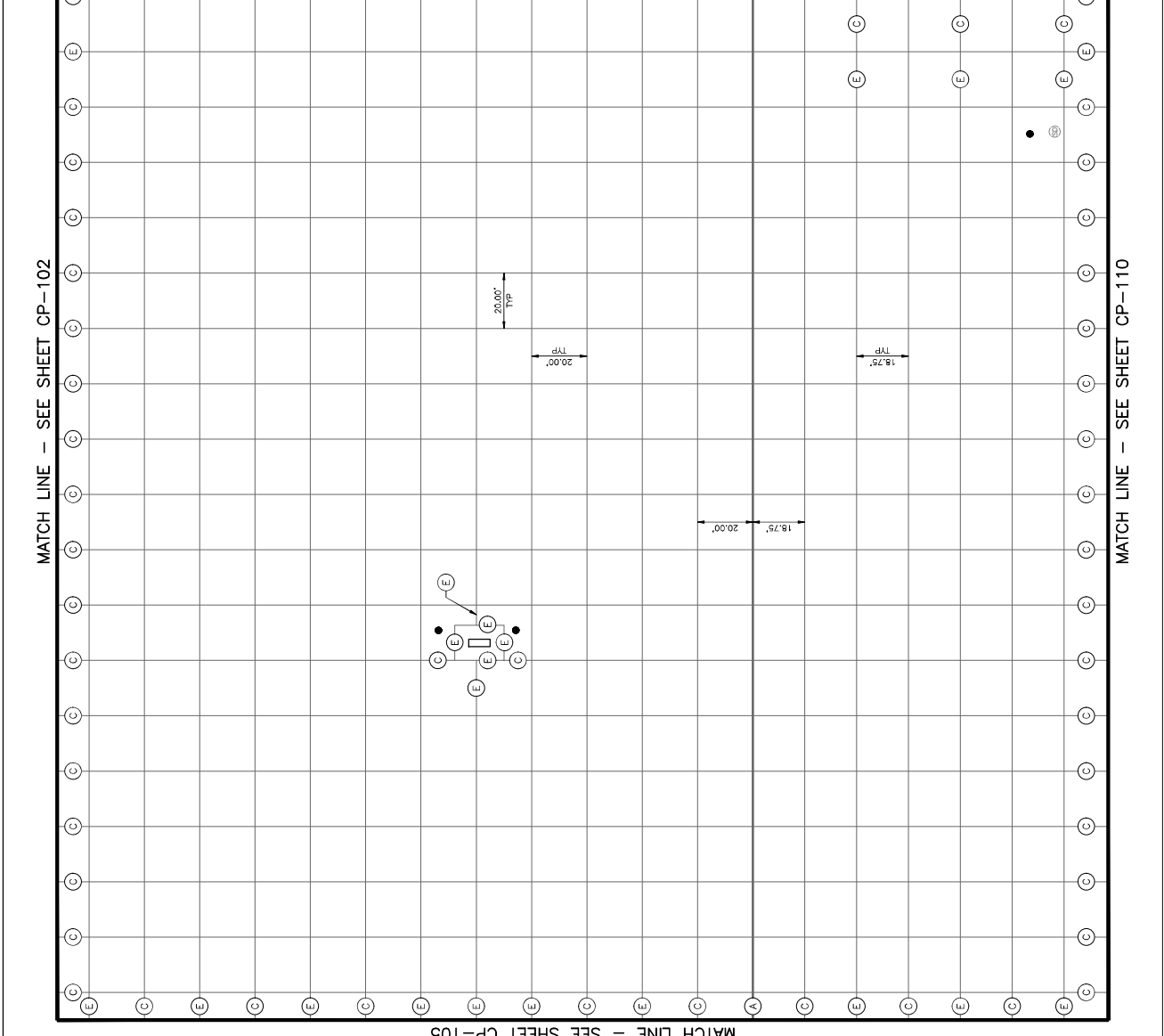
SHEET OF: 106

SCALE: 1"=20'

KEY MAP
NTS

- LEGEND**
- (X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
 - (Z2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
 - (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
 - (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
 - (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
 - (●) REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

- GENERAL NOTES**
- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
 - ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED WITH TYPE E JOINTS UNLESS OTHERWISE NOTED.
 - ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED WITH TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RPR.
 - PORTLAND CEMENT CONCRETE PAVEMENT (P-C) JOINTS SHALL NOT BE MORE THAN 10 FEET FROM THE CENTERLINE OF THE PAVEMENT. JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR.
 - ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR. JOINTS SHALL BE PLACED PER THE RPR.
 - CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT ALL JOINTS. CONTRACTOR SHALL OBTAIN APPROVAL FROM RPR PRIOR TO CONSTRUCTION.



LEGEND

(X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301

(X2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301

(C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501

(E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501

(A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501

REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
- ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED WITH TYPE C OR E JOINTS UNLESS OTHERWISE NOTED.
- TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
- PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE INTERCHANGED WITH TYPE C OR E JOINTS UNLESS OTHERWISE NOTED.
- ALL JOINTS SHALL BE PLACED AT 10-FOOT INTERVALS WITH A 1/4-INCH VARIATION IN 10-FOOT ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN REGULAR SLABS SHALL BE APPROVED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
- ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 1/2" X 6" BARS PLACED IMMEDIATELY AFTER SAWCUTTING BY VACUATING THE SLURRY.
- DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 10'-0" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED AND REPLACED WITH CORRECTLY PLACED PCBP TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
- AFTER RELOCATIONS, ALL MANHOLES SHALL BE RELOCATED TO AROUND LEG/COMA MANHOLES THAT ARE TO REMAIN IN PLACE.
- CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AND ALIGNMENT. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

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

DESIGNED BY: C. SHAW
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JAHVENI
 DATE: 04/18/2023
 DWG SCALE: AS SHOWN
 AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023

PAVING & JOINT LAYOUT PLAN

SHEET OVERVIEW TITLE

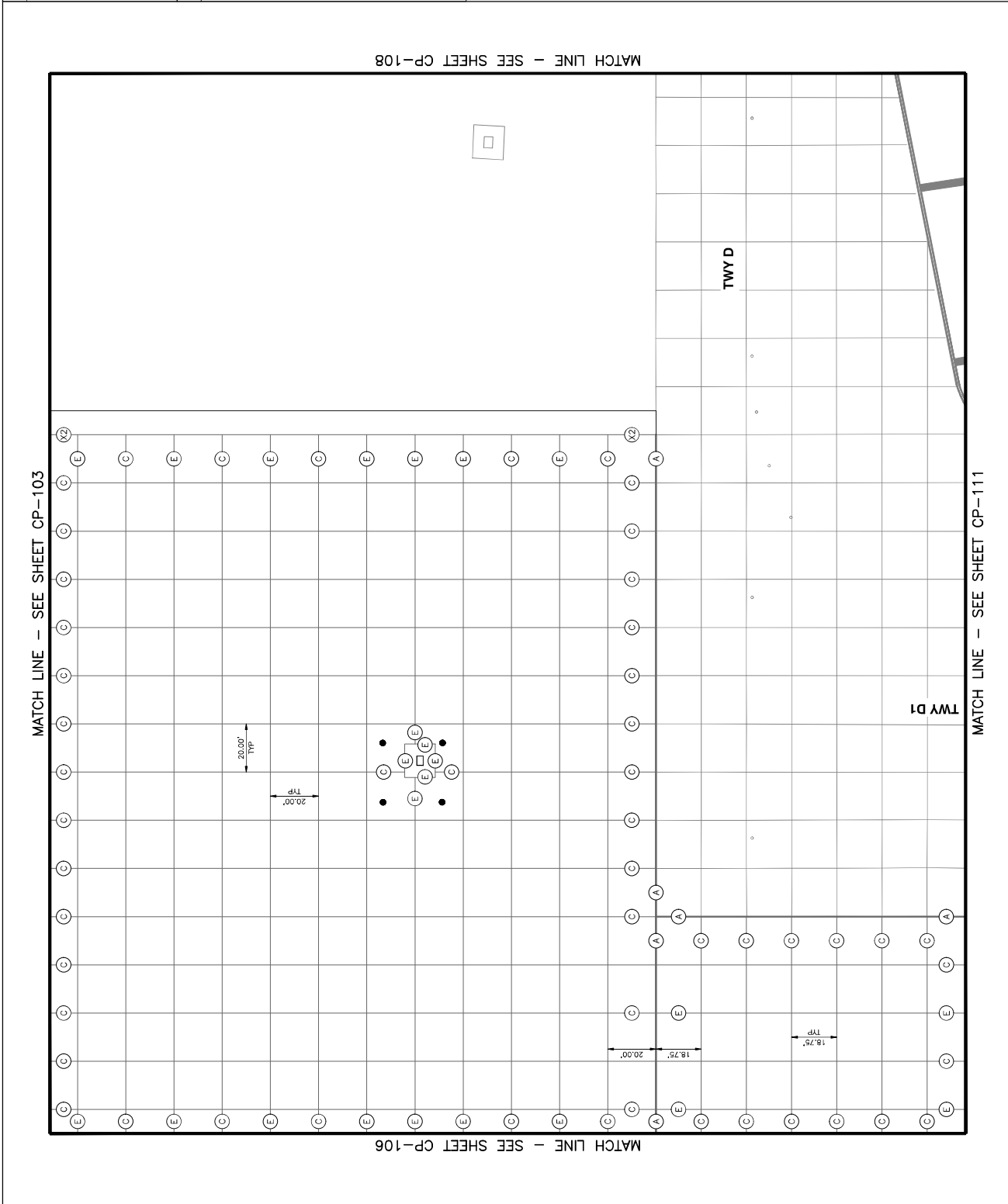
SHEET NUMBER: CP-107
 SHEET NUMBER OF CP-108

NTS

KEY MAP

SCALE: 1" = 20'

0 20' 40'



MATCH LINE - SEE SHEET CP-104

LEGEND

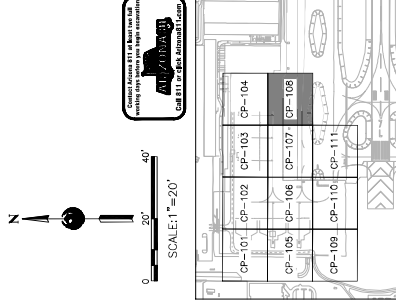
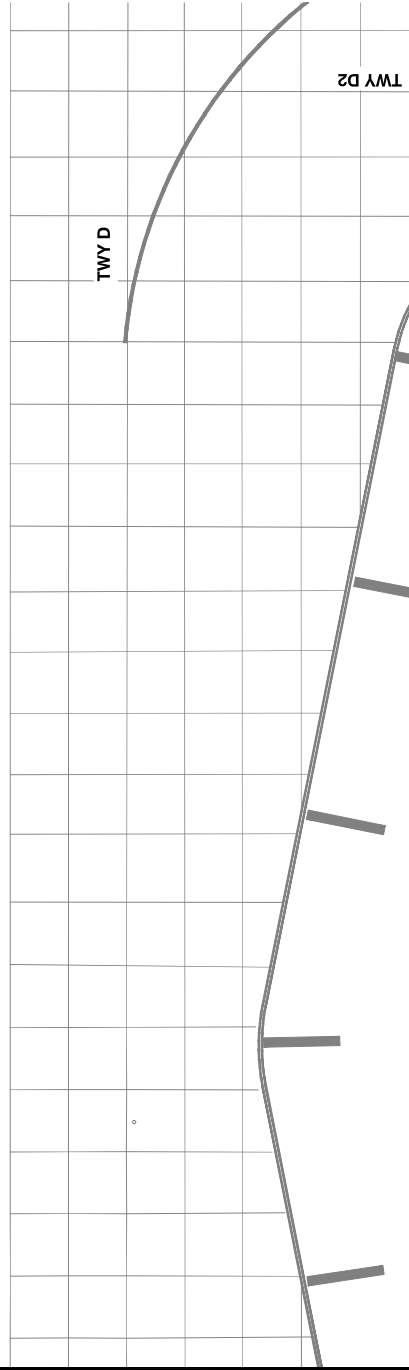
- (X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
- (X2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
- (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
- (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
- (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
- REINFORCED RCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

1. FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
2. ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED WITH THE FOLLOWING REQUIREMENTS:
 - a. ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED WITH 2#5 BARS
 - b. JOINTS SHALL BE INTERCHANGED WITH APPROVAL FROM THE RFR
3. PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT VARY MORE THAN 1/4" FROM THE SPACING INDICATED ON THE RFR. JOINTS SHALL BE 7/8" TO 1" FROM THE CURB. JOINTS SHALL BE 1/4" INCH VARIATION IN 10- FEET ANY JOINT(S) THAT ARE NOT PARALLEL OR PERPENDICULAR TO OTHER THAN REGULAR SLABS SHALL BE RECONSTRUCTED AT THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
4. ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE RECONSTRUCTED WITH THE SAME MIXTURE AND SIZE IMMEDIATELY AFTER SAWCUTTING BY VACUUMING THE SLURRY.
5. DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 0.50" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED AND REPLACED WITH THE CORRECT TYPE. THE PC/POT TO BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL VERIFY DOWEL SPACING AT ALL JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

**NO PAVING & JOINT
WORK THIS SHEET**

MATCH LINE - SEE SHEET CP-107



KEY MAP
NTS

TRAFFIC CONSULTING



NO	REVISED / SUBMISSIONS	DATE

**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO**

PHX DOT BYN
CITY OF PHOENIX AVIATION DEPARTMENT

AP NO: 2-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

PAVING & JOINT LAYOUT PLAN

SHEET NUMBER:
CP-108

SHEET OVERVIEW TITLE

SECTION 2-08, THESE PLANS ARE FOR OFFICIAL OBLIGATIONS OF CONTRACTORS TO FULFILL THE REQUIREMENTS OF THE CITY OF PHOENIX.

OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS TO FULFILL THE REQUIREMENTS OF THE CITY OF PHOENIX.

DESIGNED BY: C. SHAW
DRAWN BY: A. SANTILLI
CHECKED BY: C. JAHVENI
DATE: 04/18/2023
DWG SCALE: AS SHOWN
AP NO: 2-04-0029-106-2023

SHEET 52 OF 108

PHX DVT BVM
 CITY OF PHOENIX AVIATION DEPARTMENT
RECONSTRUCTION
WEST AIR CARGO
PHOENIX SKY HARBOR
 AV06000026 FAA

AP NO: 2-04-0029-106-2023
 3-04-0029-106-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVRI
 Drawn by: A. SANTILLI
 Designed by: C. SHAH

NO. _____ REVISIONS / SUBMISSIONS
 DATE _____

SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. THE CITY OF PHOENIX ASSUMES NO LIABILITY FOR OBLIGATIONS OF CONTRACTORS' CONTRACT WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.

TRAFFIC CONSULTING
 1000 N. CENTRAL EXPRESSWAY, SUITE 100
 PHOENIX, AZ 85004
 (602) 498-8888

GENERAL NOTES

- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
- ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED
- ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED
- TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR
- PORTLAND CEMENT CONCRETE PAVEMENT (P-C) JOINTS SHALL NOT BE INTERCHANGED WITH TYPE E JOINTS UNLESS SPECIFIED OTHERWISE BY THE RFR. JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED. JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED. JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED. JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED.
- ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 1/2" X 12" BARS. BEERS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED. BEERS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED.
- DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO PERCENT (2%) OF 0.50" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
- ALL JOINTS SHALL BE REINFORCED WITH 1/2" X 12" BARS. BARS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED. BARS SHALL BE SPACED AT 10-FOOT INTERVALS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

LEGEND

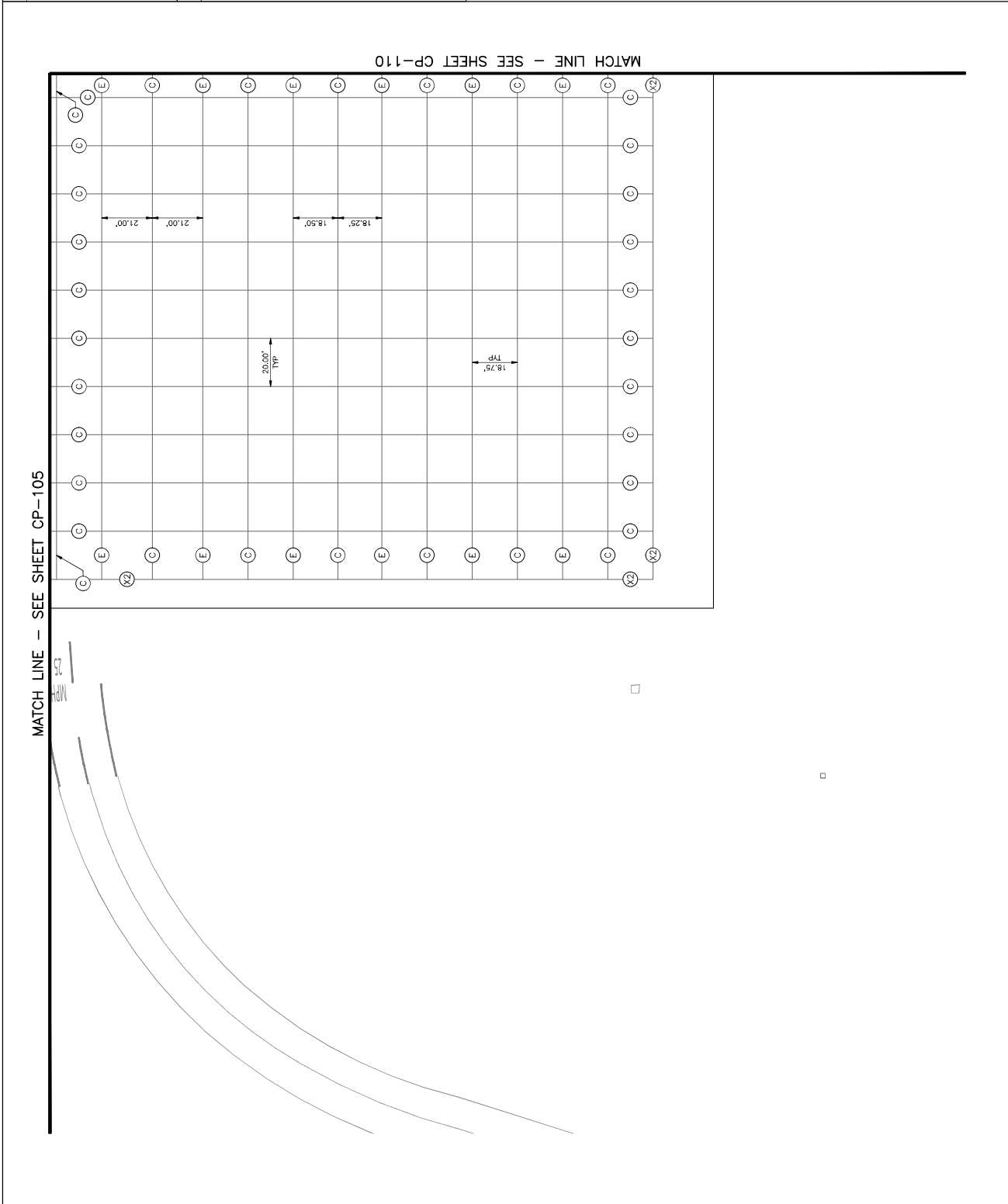
(X1) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301
 (X2) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301
 (C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501
 (E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501
 (A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501
 (●) REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

KEY MAP
 NTS

SCALE: 1" = 20'

0' 20' 40'

CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.



LEGEND

(X) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301

(Z) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301

(C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501

(E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501

(A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501

● REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

GENERAL NOTES

- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
- ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED
- ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED
- TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR
- PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT VARY MORE THAN 1/4" FROM THEERESPECIFIED JOINT SPACING. JOINTS SHALL BE PLACED AT 1/4" INCH VARIATION IN 10- FEET ANY JOINT(S) THAT ARE NOT PARALLEL TO THE PERPENDICULAR OTHER THAN REGULAR SLABS SHALL BE PERMITTED. JOINTS SHALL BE PLACED AT 1/4" INCH VARIATION FROM THE CENTERLINE OF THE JOINTS BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER
- ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 1" DIA. BARS. THE BARS SHALL BE SWAGCUTTING BY VACUUMING THE SLURRY IMMEDIATELY AFTER SAWCUTTING
- DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO-TENTHS (2/10) OF 1" IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER
- ALL JOINTS SHALL BE REINFORCED WITH 1" DIA. BARS FOR JOINTS AROUND LEGS/COMA MANHOLES THAT ARE TO REMAIN IN PLACE
- AFTER RELOCATIONS
- CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION

PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT
 AV06000026 FAA

AP NO: 2-04-0029-106-2023
 Dwg scale: AS SHOWN
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 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAH

NO. ISSUED FOR BID
 DATE

REVISIONS / SUBMISSIONS
 NO. DATE

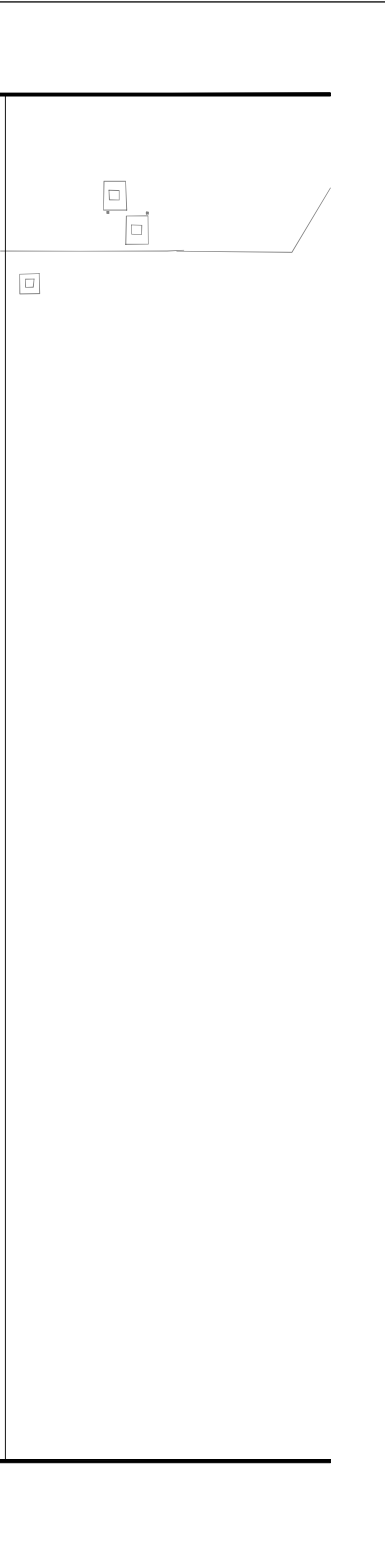
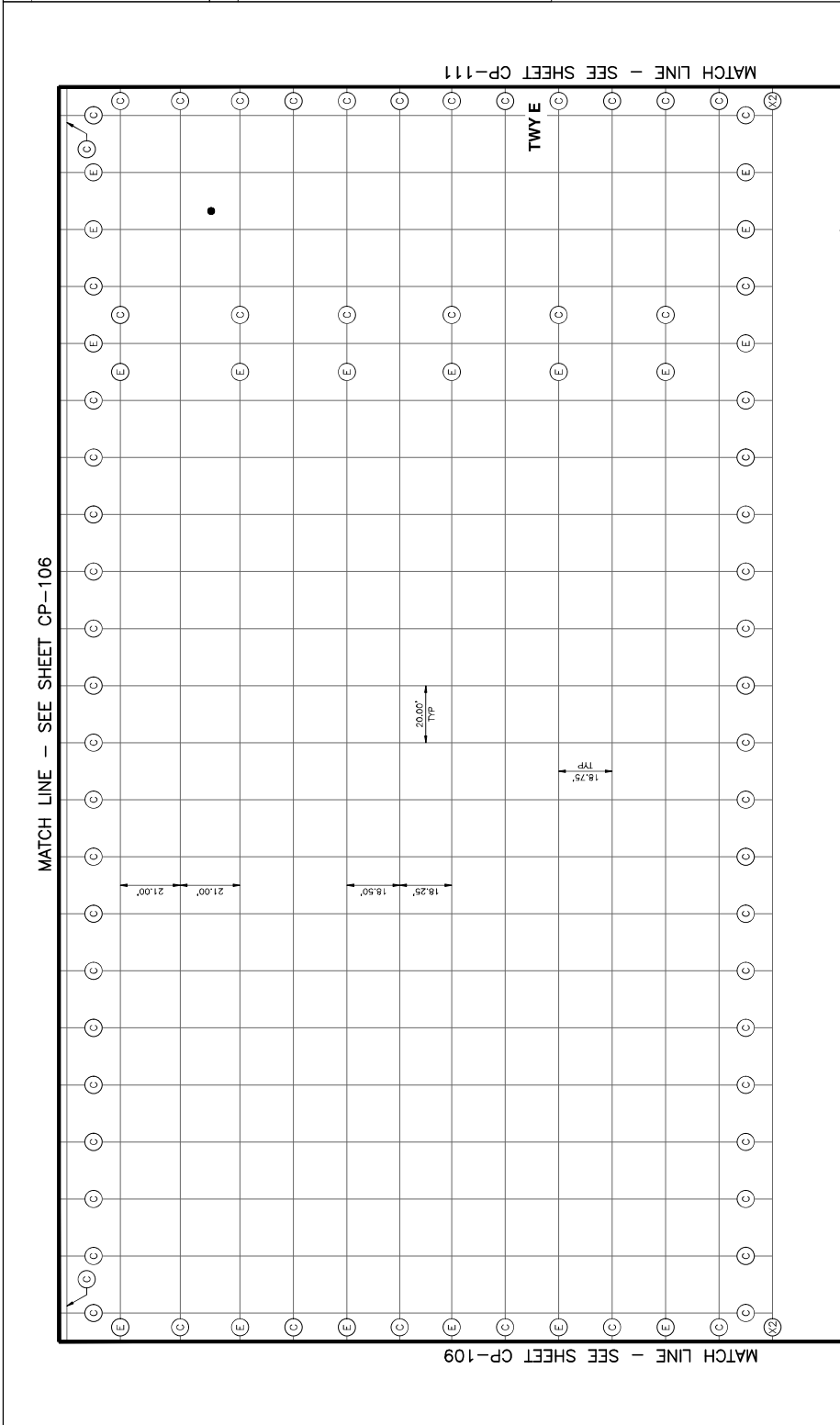
SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND ARE NOT TO BE REPRODUCED OR COPIED WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. THE CITY OF PHOENIX ASSUMES NO LIABILITY FOR OBLIGATIONS OF CONTRACTORS' CONTRACT WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.

PAVING & JOINT LAYOUT PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER: CP-110
 SHEET NUMBER: NTS

KEY MAP



LEGEND

(X) TRANSITION TYPE X1, SEE DETAIL X1, SHEET CS-301

(Z) TRANSITION TYPE X2, SEE DETAIL X2, SHEET CS-301

(C) TYPE C DOWELED CONTRACTION JOINT, SEE DETAIL C, SHEET CP-501

(E) TYPE E DOWELED CONTRACTION JOINT, SEE DETAIL E, SHEET CP-501

(A) TYPE A THICKENED EDGE ISOLATION JOINT, SEE DETAIL A, SHEET CP-501

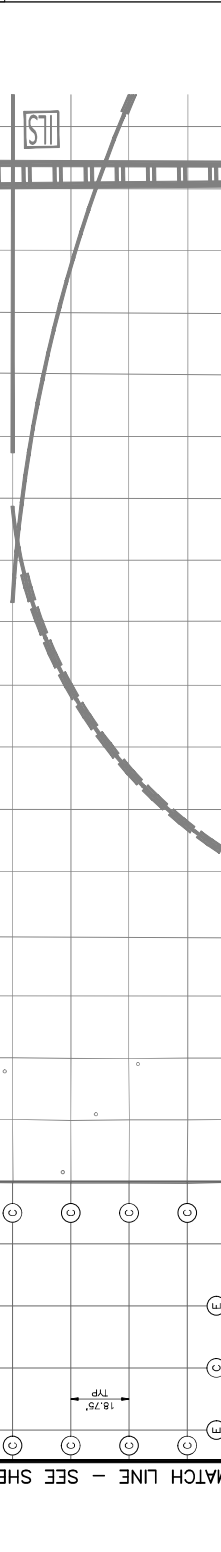
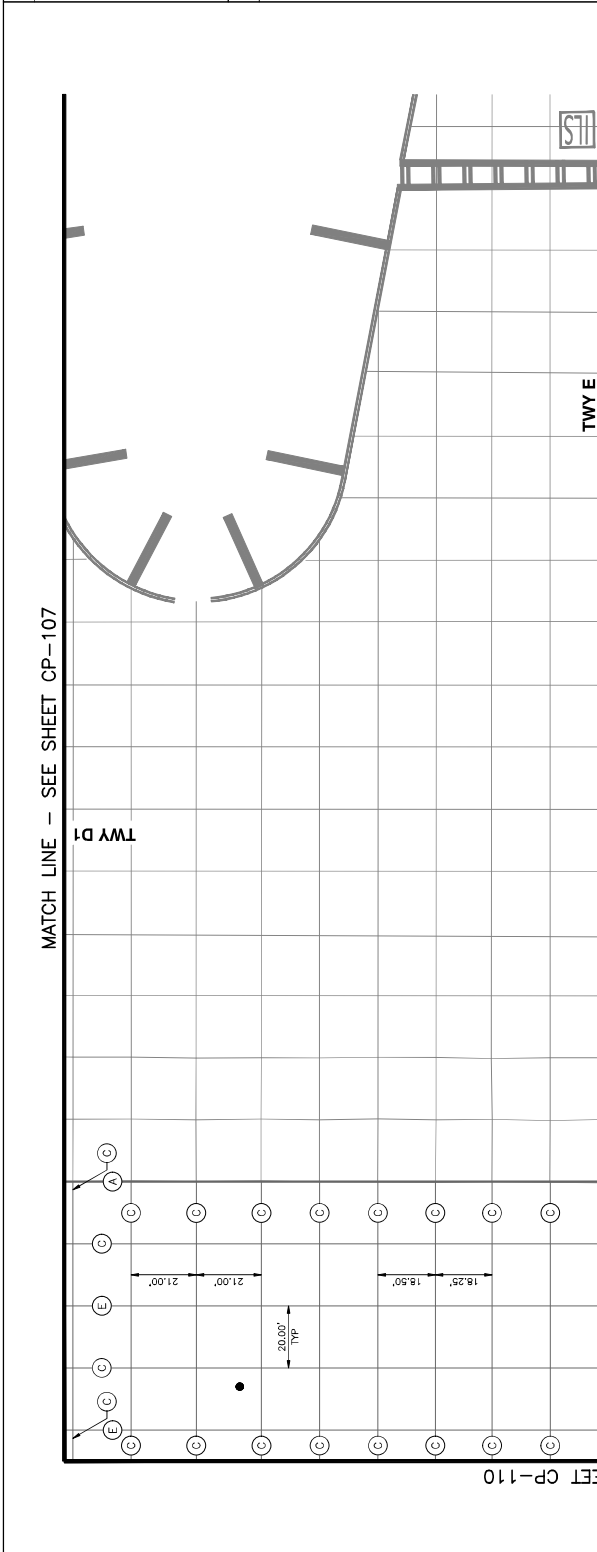
● REINFORCED PCC PAVEMENT PANEL, SEE DETAIL 6, SHEET CP-502

- GENERAL NOTES**
- FOR JOINT DETAILS, DOWEL SIZE AND SPACING, SEE SHEET CP-501
 - ALL TRANSVERSE CONTRACTION JOINTS SHALL BE DOWELED AS SHOWN IN THIS SHEET.
 - ALL CONSTRUCTION & CONTRACTION JOINTS SHALL BE DOWELED AS SHOWN IN THIS SHEET.
 - TYPE C AND E JOINTS MAY BE INTERCHANGED WITH APPROVAL FROM THE RFR.
 - PORTLAND CEMENT CONCRETE PAVEMENT (P-501) JOINTS SHALL NOT BE INTERCHANGED WITH TYPE C OR E JOINTS UNLESS OTHERWISE NOTED. JOINTS SHALL BE PLACED FROM THE CENTERLINE OF THE PAVEMENT TO THE CENTERLINE OF THE JOINT(S) THAT ARE NOT PARALLEL TO OR PERPENDICULAR TO THE CENTERLINE OF THE PAVEMENT. JOINTS SHALL BE PLACED BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
 - ALL SAWCUT BEERS FROM THE WIDENING OF THE JOINTS SHALL BE REINFORCED WITH 1# BARS. BEERS SHALL BE IMMEDIATELY AFTER SAWCUTTING BY VACUATING THE SLURRY.
 - DOWEL BARS SHALL NOT VARY IN ALIGNMENT BY MORE THAN TWO-TENTHS (0.2) OF AN INCH IN EACH PANEL. MISALIGNED DOWEL BARS SHALL BE REMOVED ON EACH SIDE OF THE DOWEL BARS AT NO ADDITIONAL COST TO THE OWNER.
 - ALL JOINTS SHALL BE REINFORCED WITH 1# BARS FOR JOINTS AROUND ELEC/COM MANHOLES THAT ARE TO REMAIN IN PLACE AFTER RELOCATIONS.
 - CONTRACTOR SHALL FIELD VERIFY DOWEL SPACING AT JOINTS. CONTRACTOR SHALL CORRECT AND OBTAIN APPROVAL FROM RFR PRIOR TO CONSTRUCTION.

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

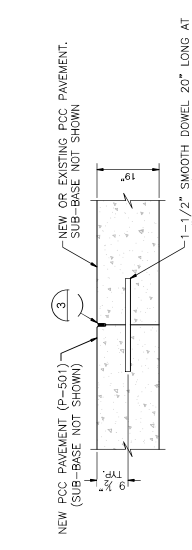
AP NO:	2-04-0029-107-2023
Dwg scale:	AS SHOWN
Date:	04/18/2023
Checked by:	C. JHAVERI
Drawn by:	A. SANTILLI
Designed by:	C. SHAH

SHEET OVERVIEW TITLE
PAVING & JOINT LAYOUT PLAN
 SHEET NUMBER
CP-111
 SHEET OF 108

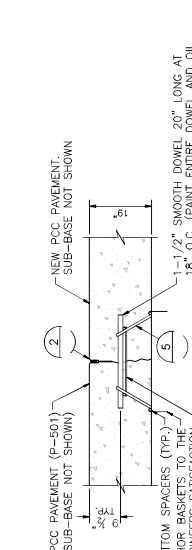


KEY MAP
 NTS

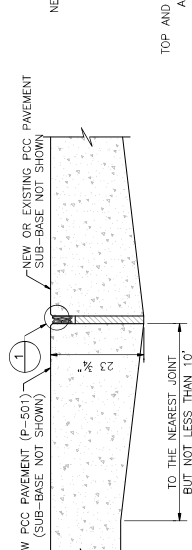
NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23



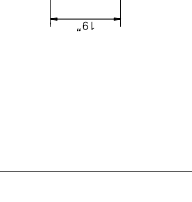
(A) TYPE A — THICKENED EDGE EXPANSION JOINT
N.T.S.



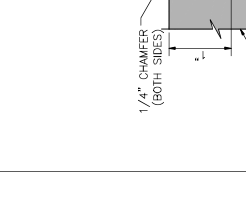
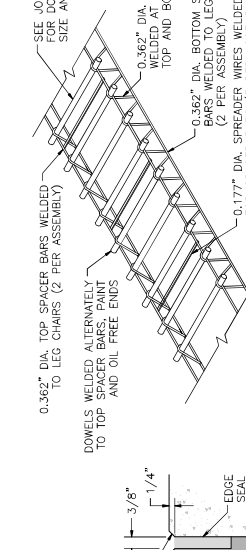
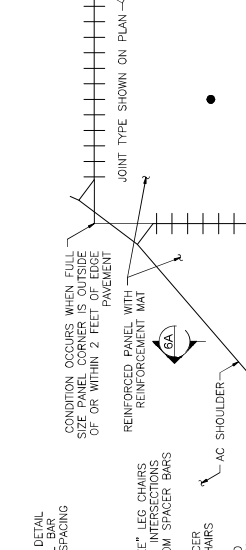
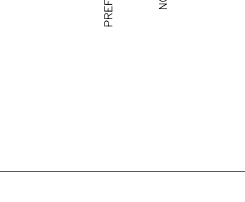
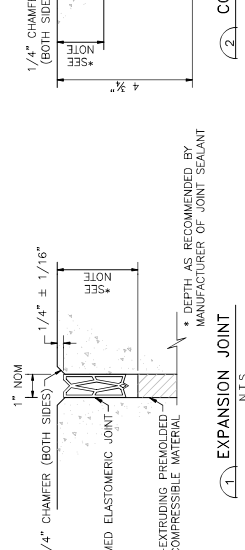
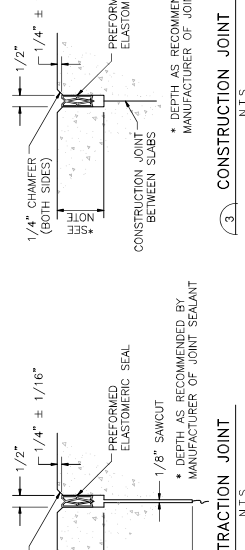
(B) TYPE B — DOWELED EDGE EXPANSION JOINT
N.T.S.



(C) TYPE C — DOWELED CONTRACTION JOINT
N.T.S.



(D) TYPE D — DOWELED CONSTRUCTION JOINT
N.T.S.



(5) DOWEL BASKET ASSEMBLY
N.T.S.

(6) REINFORCED PCC PAVEMENT PANEL
N.T.S.

(7) SECTION PAVEMENT SHOULDER
N.T.S.

(8) SECTION PAVEMENT SHOULDER
N.T.S.

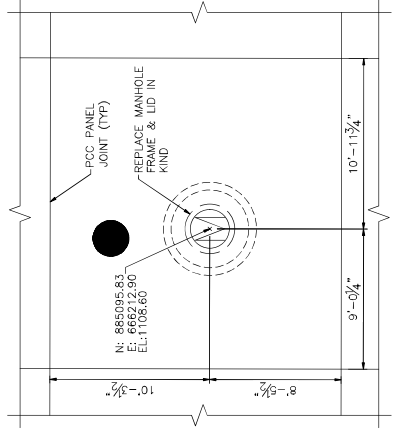
GENERAL NOTES:

1. ALL JOINT CONSTRUCTION, MATERIALS AND JOINT SEALER SHALL BE IN ACCORDANCE WITH FAA SPECS P-501 AND P-604 OR AS NOTED.
2. ALL MATERIALS AND WORK REQUIRED FOR NEW JOINTS ARE INCIDENTAL TO ITEM P-501.
3. THE MATERIALS AND METHODS SHOWN HERE ARE THE MINIMUM REQUIREMENTS.
4. DOWELS SHALL BE SHOP PAINTED WITH ONE COAT OF LEAD OR TAR PAINT AND THE DOWEL SHALL BE OILED IN THE FIELD, AS NOTED ON DETAILS.
5. DOWEL BAR INSTALLATION DEVICE (DOWEL BASKET) AND METHOD OF ANCHORING INTO POSITION SHALL BE APPROVED BY THE ENGINEER.
6. EDGES OF THE SLAB SHALL BE SPRAYED WITH AN APPROVED CURING MATERIAL BEFORE MAKING AN ADJACENT POUR. A TRANSVERSE CONSTRUCTION JOINT SHALL BE INSTALLED WHEN PAVING OPERATIONS ARE INTERRUPTED FOR MORE THAN THIRTY (30) MINUTES OTHER THAN WORK AT TRANSVERSE JOINTS OR ENDS OF SLABS. INTERSECTIONS SHALL BE REINFORCED WITH (8) FEET FROM EACH JOINT. FREE CONCRETE SHALL BE REMOVED FROM THE JOINT. THE JOINT SHALL BE PREVIOUSLY INSTALLED JOINT OR A MINIMUM OF EIGHT (8) FEET TO THE NEXT PLANNED JOINT.
7. THE CONTRACTOR SHALL MAKE SPECIAL PROVISIONS TO KEEP THE FINISHED CONCRETE SURFACE FREE FROM OIL, GREASE, AND OTHER CONTAMINANTS. SWEEPERS AND VACUUM TRUCKS SHALL BE UTILIZED AS NECESSARY BY THE CONTRACTOR AND/OR AS DIRECTED BY THE ENGINEER TO MAINTAIN THIS PROVISION.
8. THE PAVEMENT SURFACE AND JOINT SHALL BE CLEANED, OF SAW CUTTING RESIDUE IMMEDIATELY AFTER EACH JOINT SAWING OPERATION. THE JOINT LOCATION SHALL BE CLEANED OF ALL DEBRIS AND DUST. ALL JOINTS SHALL BE CLEANED PRIOR TO THE APPLICATION OF JOINT SEALANT. MEANS AND METHODS WHICH CREATE NO FLOTTING DUST.
9. ALL CONSTRUCTION JOINTS THAT ARE NOT OPEN AND FREE OF FOREIGN MATERIAL SHALL BE CLEANED BY SAWING FULL WIDTH AND DEPTH.
10. SHOULD ANY ITEM IN THESE PLANS CONFLICT WITH THE TECHNICAL SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN.
11. DOWEL BARS SHALL NOT BE PLACED MECHANICALLY.
12. THE CONTRACTOR SHALL BE ATTENTIVE TO THE TIMING OF SAWCUTTING TO AVOID CRACKING. SEE DETAIL 2, THIS SHEET, FOR DEPTH OF SAWCUT.
13. CONTRACTOR SHALL SAWCUT EXISTING PCC PAVEMENT FULL DEPTH WHERE EXISTING SURFACE EDGE IS NOT VERTICAL.
14. PCC PAVEMENT THICKNESS SHOWN BASED ON GEOTECHNICAL EVALUATION REPORT — PHOENIX SKY HARBOR INTERNATIONAL AIRPORT WEST AIR CARGO APRON RECONSTRUCTION PREPARED BY WESTERN TECHNOLOGIES, INC. WT REF. NO 21E10427, DATED 3/27, 2022.

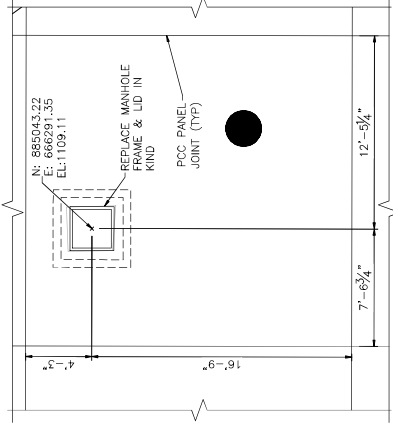
NOTE:
FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 18" ON CENTER. DOWEL BARS SHALL BE SPACED AT LEAST 10" FROM ANY SUB CORNER.

NOTE:
FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 18" ON CENTER. DOWEL BARS SHALL BE SPACED AT LEAST 10" FROM ANY SUB CORNER.

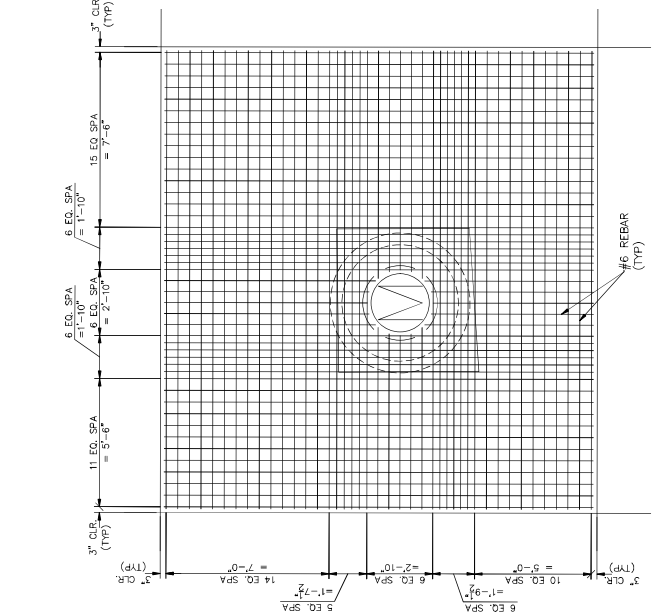
NOTE:
FOR SLAB SIZES NOT CONFORMING TO THE DETAILS SHOWN, DOWEL BARS SHALL BE SPACED 18" ON CENTER. DOWEL BARS SHALL BE SPACED AT LEAST 10" FROM ANY SUB CORNER.



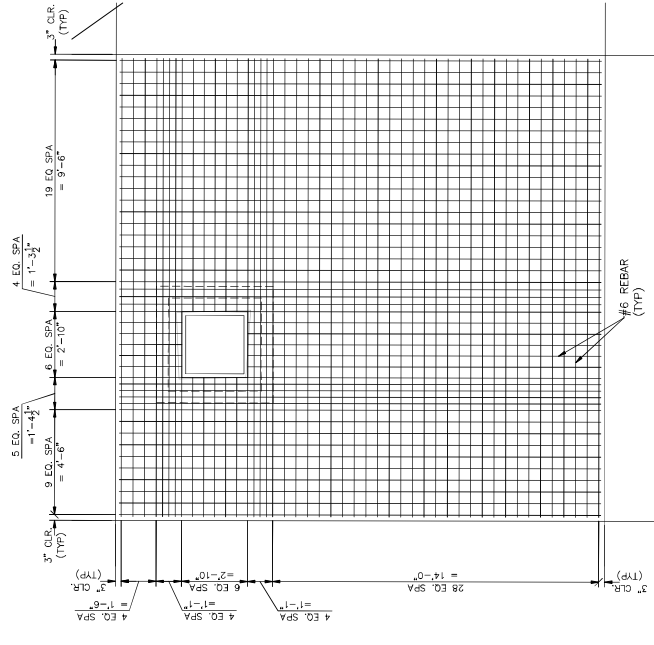
1. EXISTING ELECTRICAL MANHOLE (SHEET CG-106)
SCALE: 1/4" = 1'-0"



2. EXISTING FAA COMM. VAULT (SHEET CG-111)
SCALE: 1/4" = 1'-0"



3. BOTTOM MAT REINFORCING PLAN
SCALE: 3/8" = 1'-0"



4. BOTTOM MAT REINFORCING PLAN
SCALE: 3/8" = 1'-0"

- NOTES:**
- REFER TO GRADING & DRAINAGE SHEETS FOR LOCATIONS OF INLETS AND ADDITIONAL INFORMATION.
 - REFER TO PAVING AND JOINT DETAILS SHEET FOR REINFORCED PCC PAVEMENT PANEL DETAILS AND ADDITIONAL INFORMATION.
 - LOCATION SHOWN SHALL BE CENTER OF EXISTING STRUCTURE TO BE BELOW GRADE. CONTINUE TO BE BELOW GRADE. NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - REFER TO STORM DRAIN INLET DETAILS 1 OF SHEET CU-503 FOR CONCRETE AND REINFORCEMENT SPECIFICATIONS AND ADDITIONAL DETAILS.
 - TOP MAT REINFORCING TO BE #4 @ 6" EA. REFER TO DETAIL A, SHEET CU-504 FOR TYPICAL SECTION.



NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION
AV06000026 FAA

Designed by: R/W
Drawn by: R/W
Checked by: BMS
Date: 04/18/2023
Dwg. No.: AS SHOWN
AP No.: 3-04-0029-106-2023

SHEET OVERVIEW TITLE
PAVING AND JOINT DETAILS



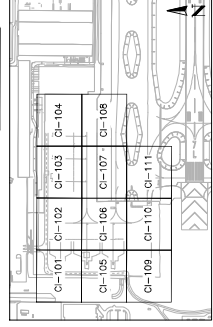
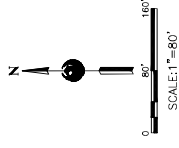
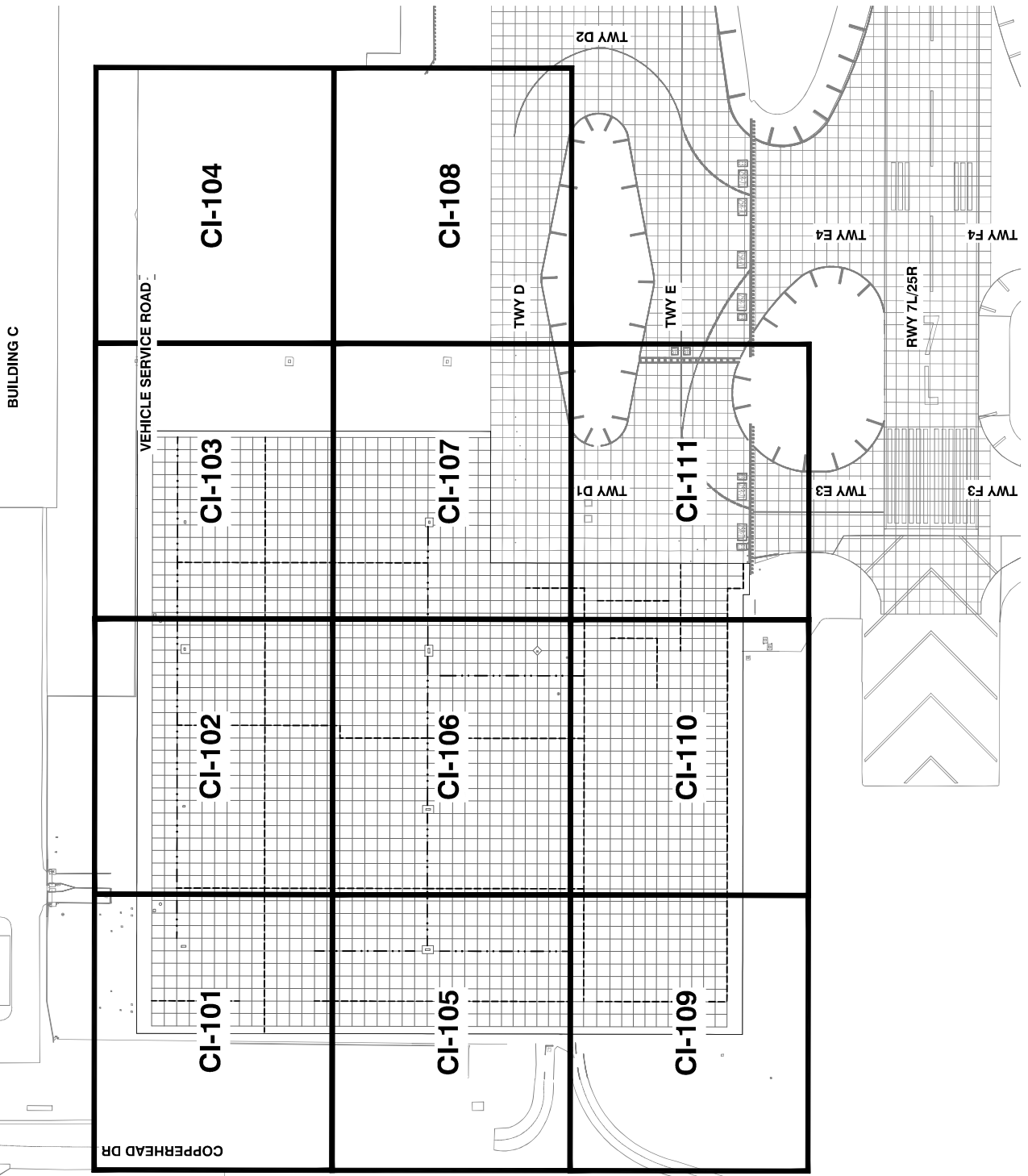
NO	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

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

APR NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

**OVERALL PAVEMENT
 STAKING PLAN**

SHEET OVERVIEW TITLE
 SHEET NUMBER
CI-100
 SHEET OF 105



KEY MAP
 NTS

COPPERHEAD DR

BUILDING C

VEHICLE SERVICE ROAD

CI-104

CI-103

CI-102

CI-101

CI-108

CI-107

CI-106

CI-105

CI-111

CI-110

CI-109

TWY D2

TWY D

TWY D1

TWY E

TWY E4

TWY E3

RWY 7L/25R

TWY F4

TWY F3

PAYMENT STAKING PLAN

DESIGNED BY: C. SHAN

DRAWN BY: A. SANTILLI

CHECKED BY: C. JAHVERI

DATE: 04/18/2023

DWG SCALE: AS SHOWN

APP NO: 2-04-0029-106-2023

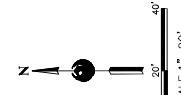
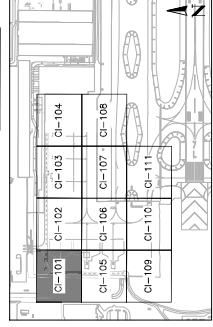
2-04-0029-107-2023

PHX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION**
AV06000026 FAA

NO	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

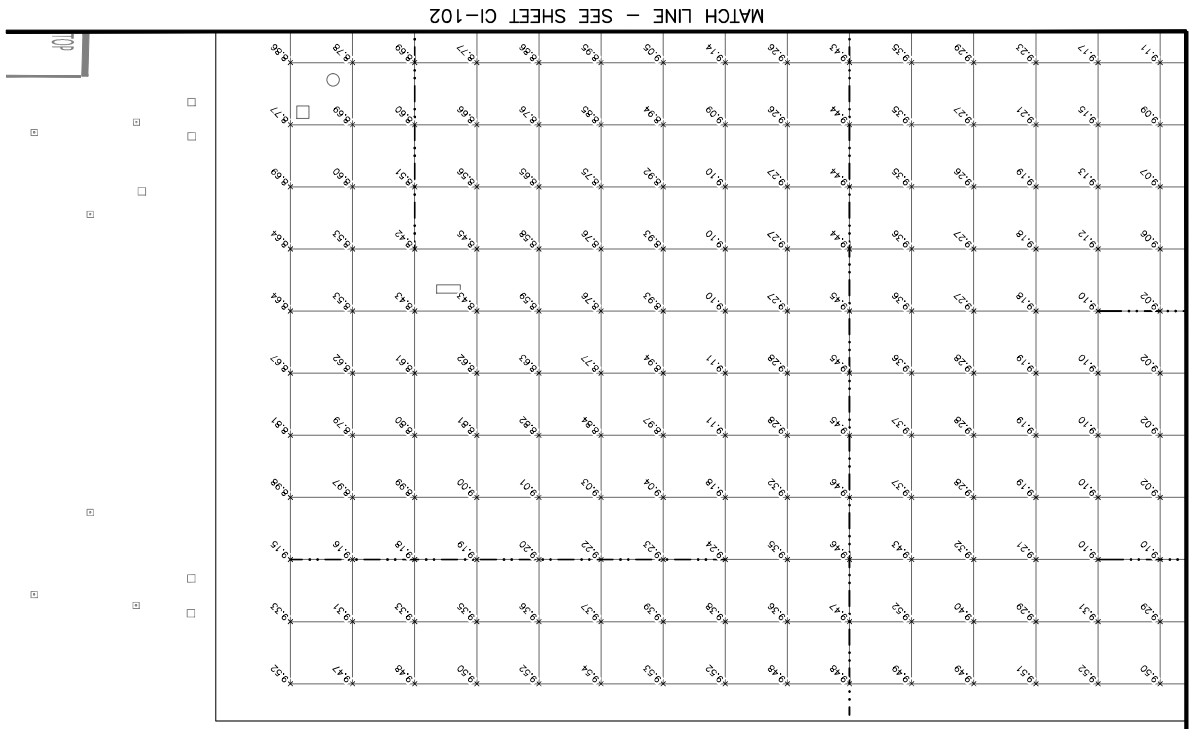


PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MUST NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.



GENERAL NOTES

- 1. ADD 1100 TO ALL ELEVATIONS



MATCH LINE - SEE SHEET CI-105

COPPERHEAD DR

PAYEMENT STAKING PLAN

AP NO: 2-04-0029-106-2023
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAN

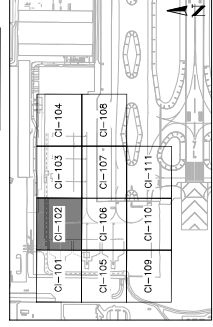
PHOENIX SKY HARBOR
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 CITY OF PHOENIX AVIATION DEPARTMENT
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			04/23

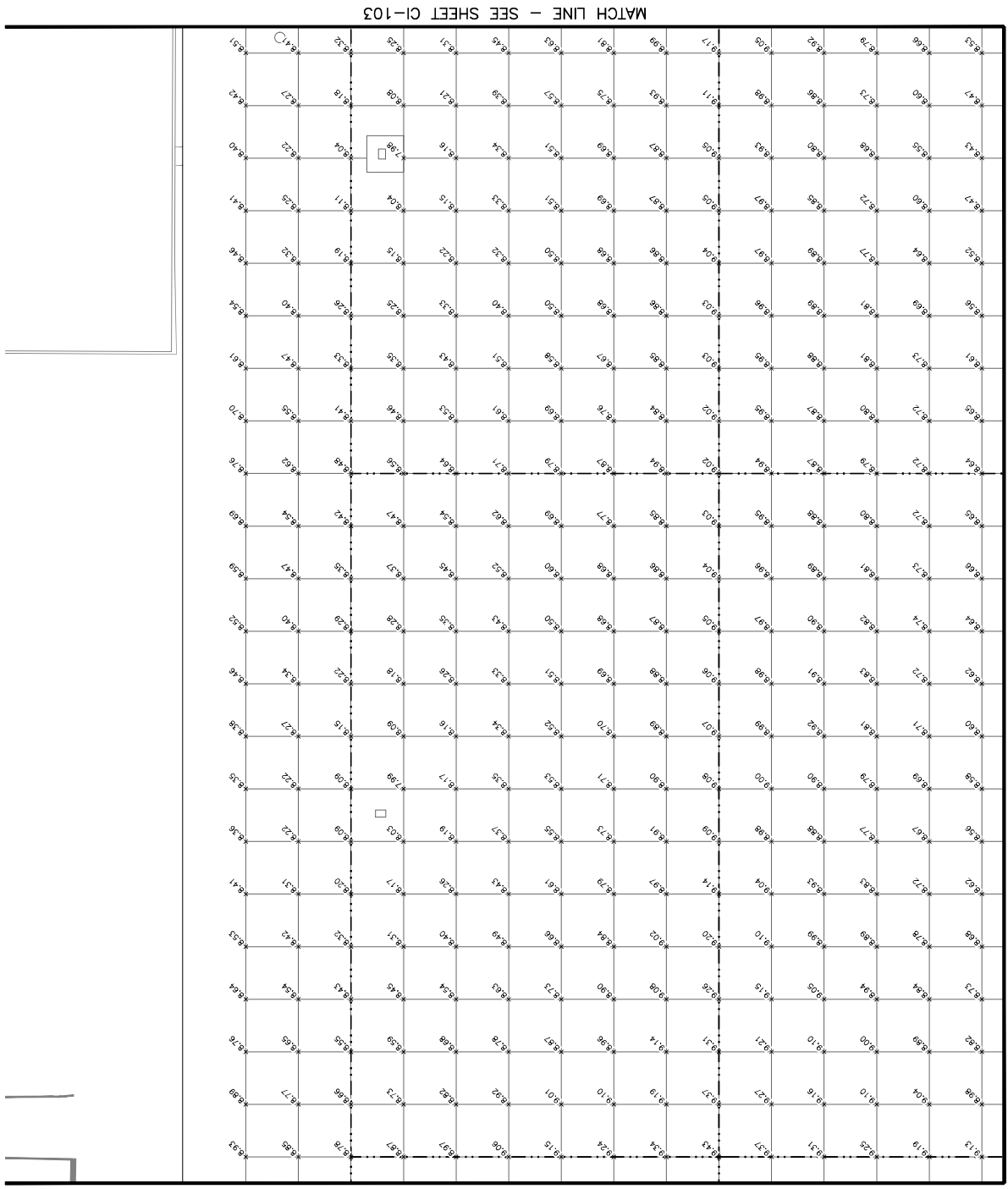


PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-08, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

KEY MAP



GENERAL NOTES
 1. ADD 1100 TO ALL ELEVATIONS



MATCH LINE - SEE SHEET CI-103

MATCH LINE - SEE SHEET CI-101

MATCH LINE - SEE SHEET CI-106

PAYMENT STAKING PLAN

APR NO. 104
 2-04-0029-106-2023
 3-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
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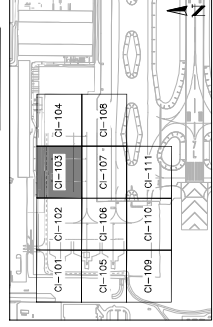
PBX DVT BYM
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
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 INTERNATIONAL AIRPORT**
 AV06000026 FAA

NO	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE
			04/23

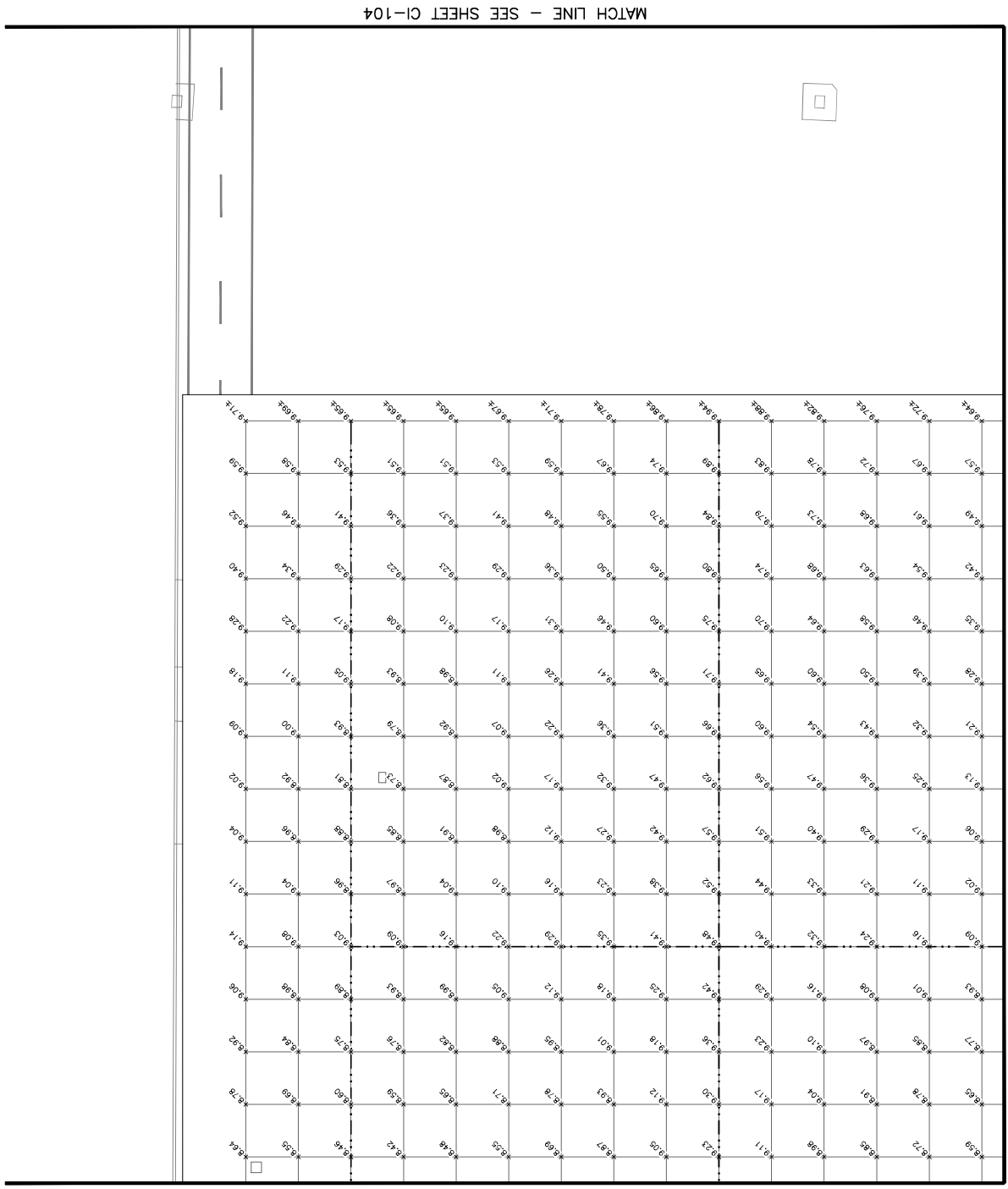


PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

SHEET OVERVIEW TITLE



GENERAL NOTES
 1. ADD 1100 TO ALL ELEVATIONS



MATCH LINE - SEE SHEET CI-104

MATCH LINE - SEE SHEET CI-102

MATCH LINE - SEE SHEET CI-107

KEY MAP
 NTS

TRADE CONSULTANT



NO	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

PBX DVT BYR
CITY OF PHOENIX AVIATION DEPARTMENT
PHOENIX SKY HARBOR
WEST AIR CARGO
RECONSTRUCTION
AV06000026 FAA

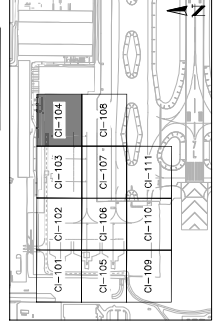
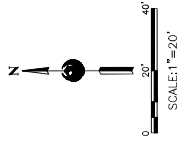
AP NO: 3-04-0029-106-2023
3-04-0029-107-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JHAVRI
Drawn by: A. SANTILLI
Designed by: C. SHAN

PAYEMENT STAKING PLAN

SHEET OVERVIEW TITLE
SHEET NUMBER
CI-104
SHEET 62 OF 105

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.

PHONE CONSULTANT



KEY MAP
NTS

**NO PAVEMENT STAKING
WORK THIS SHEET**

MATCH LINE - SEE SHEET CI-103

MATCH LINE - SEE SHEET CI-108



NO	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

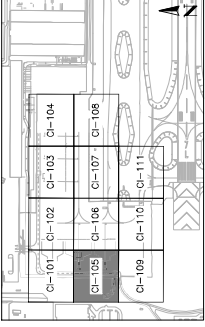
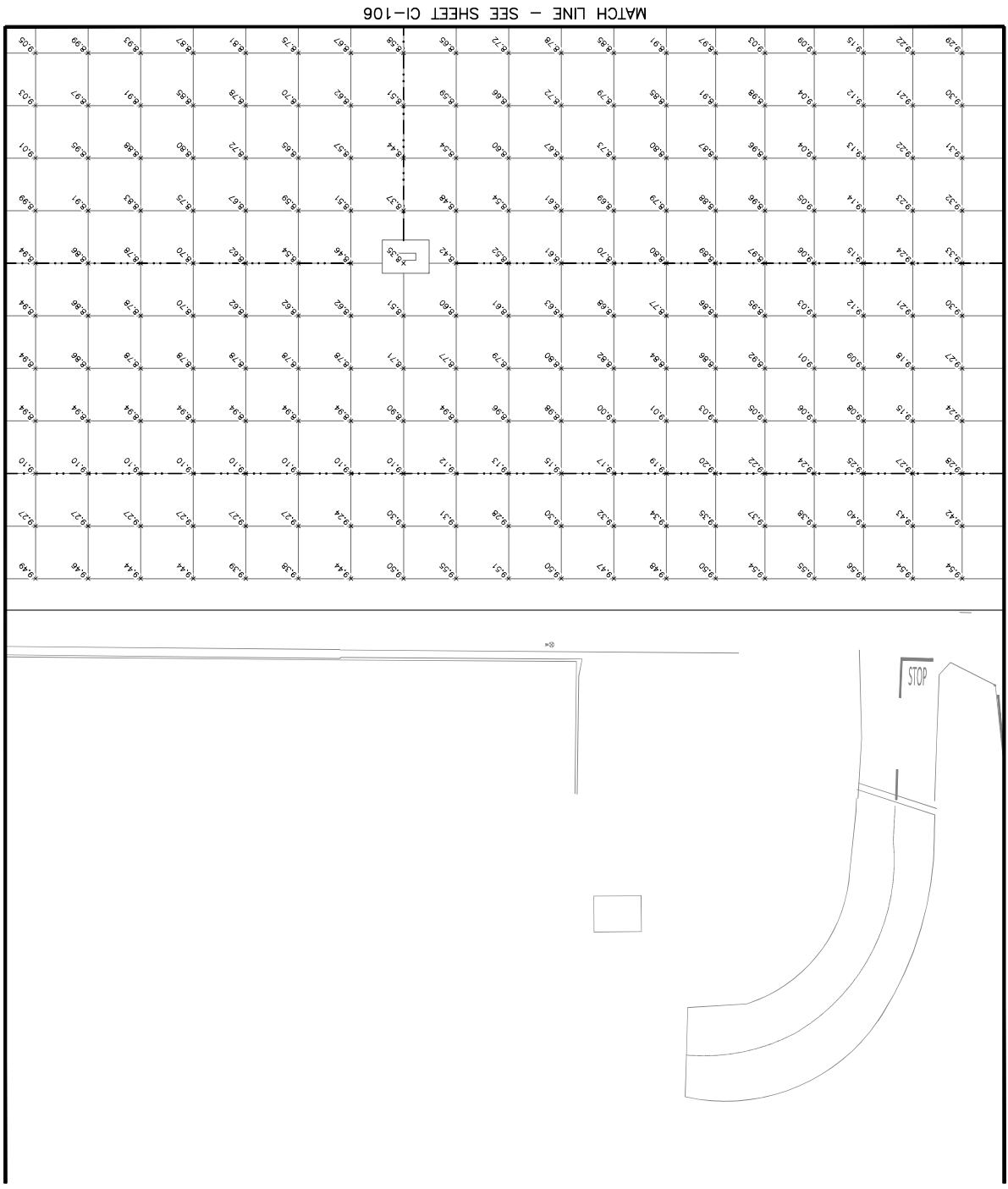
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 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**
 AV06000026 FAA

APR NO: 2-04-0029-106-2023
 3-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAN

PAYEMENT STAKING PLAN

SHEET OVERVIEW TITLE
 SHEET NUMBER: **CI-105**
 SHEET 63 OF 105

GENERAL NOTES
 1. ADD 1100 TO ALL ELEVATIONS



KEY MAP
 NTS

PAYMENT STAKING PLAN

Designed by: C. SHAN
 Drawn by: A. SANTILLI
 Checked by: C. JAHVERI
 Date: 04/18/2023
 Dwg scope: AS SHOWN
 AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023

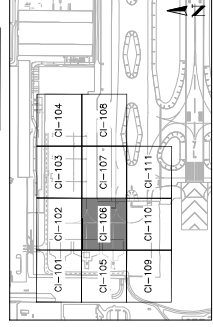
PHX DOT BYW
 CITY OF PHOENIX AVIATION DEPARTMENT
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 AV06000026 FAA

NO	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE
			04/23

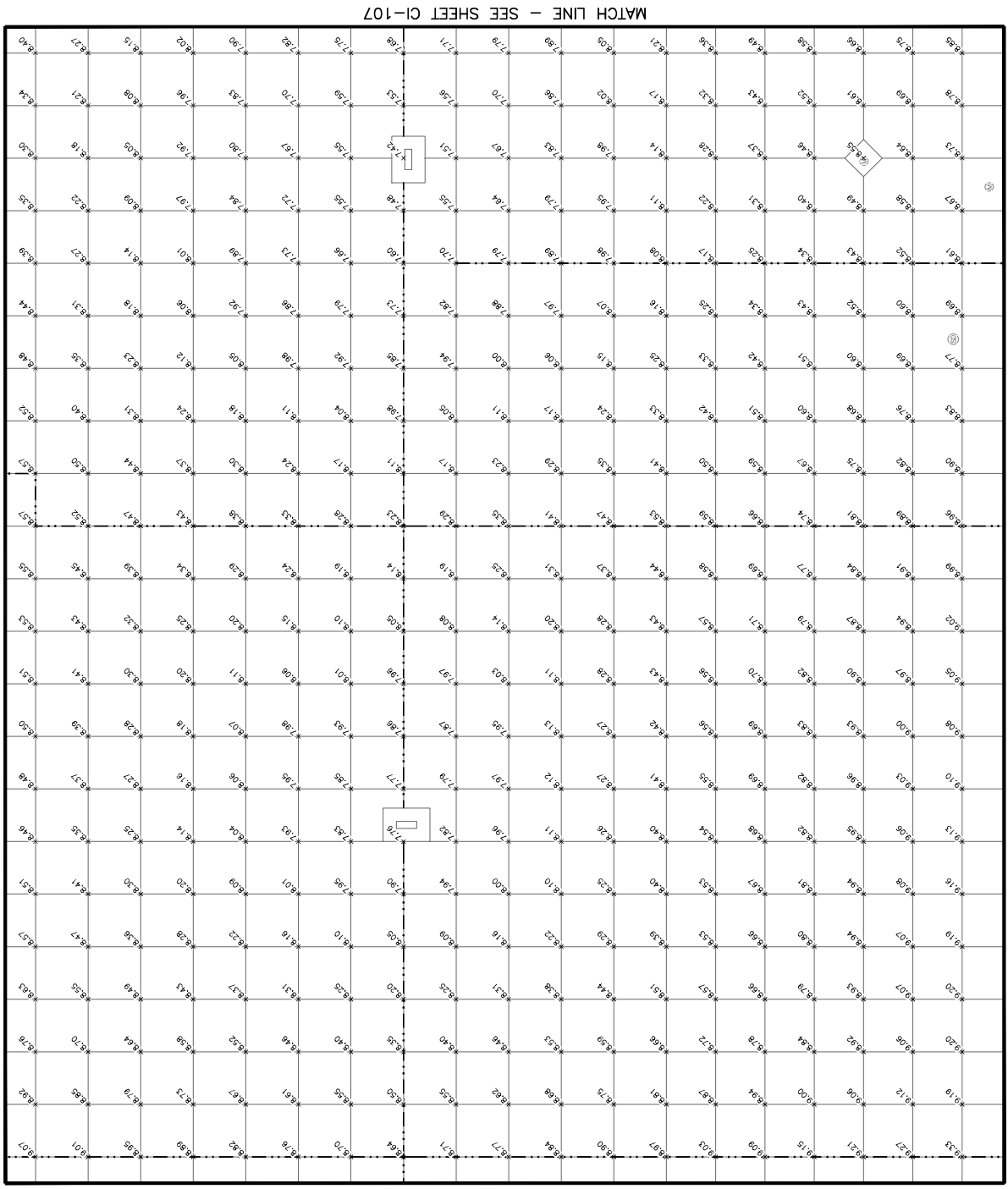


PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

SHEET OVERVIEW TITLE



GENERAL NOTES
 1. ADD 1100 TO ALL ELEVATIONS



AP NO: 2-04-0029-106-2023
 Date: 04/18/2023
 Checked by: C. JAHVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAN

Dwg scale: AS SHOWN
 PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION
 AV06000026 FAA
 CITY OF PHOENIX AVIATION DEPARTMENT
PBX INT BYR

NO	ISSUED FOR BID	DATE
		04/23

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.

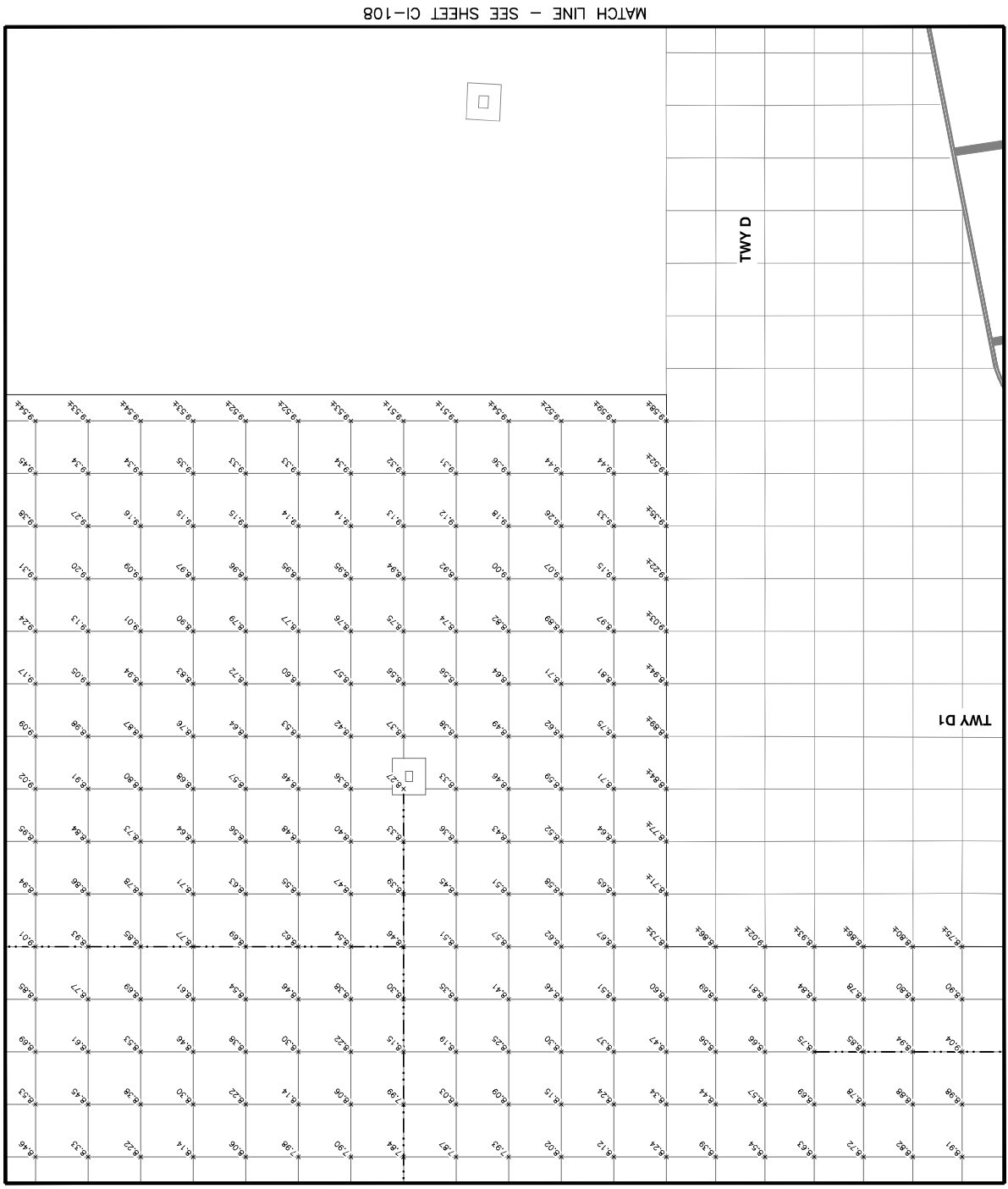
TRAPE CONSULTING
 1000 N. CENTRAL EXPRESSWAY, SUITE 1000
 PHOENIX, AZ 85004
 (602) 442-1111
 www.trapeconsulting.com

SHEET OVERVIEW TITLE: PAVEMENT STAKING PLAN
 SHEET NUMBER: CI-107
 SHEET 65 OF 105

KEY MAP
 NTS

SCALE: 1"=20'
 0' 20' 40'

GENERAL NOTES
 1. ADD 1100 TO ALL ELEVATIONS





NO	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

PFX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
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 AV06000026 FAA

AP No: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

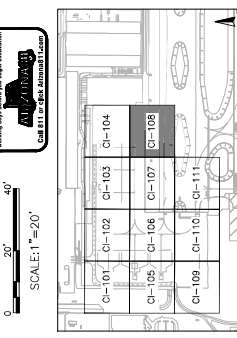
PAYEMENT STAKING PLAN

SHEET OVERSET TITLE
 SHEET NUMBER
CI-108
 SHEET OF 108

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.

PFX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION**
 AV06000026 FAA

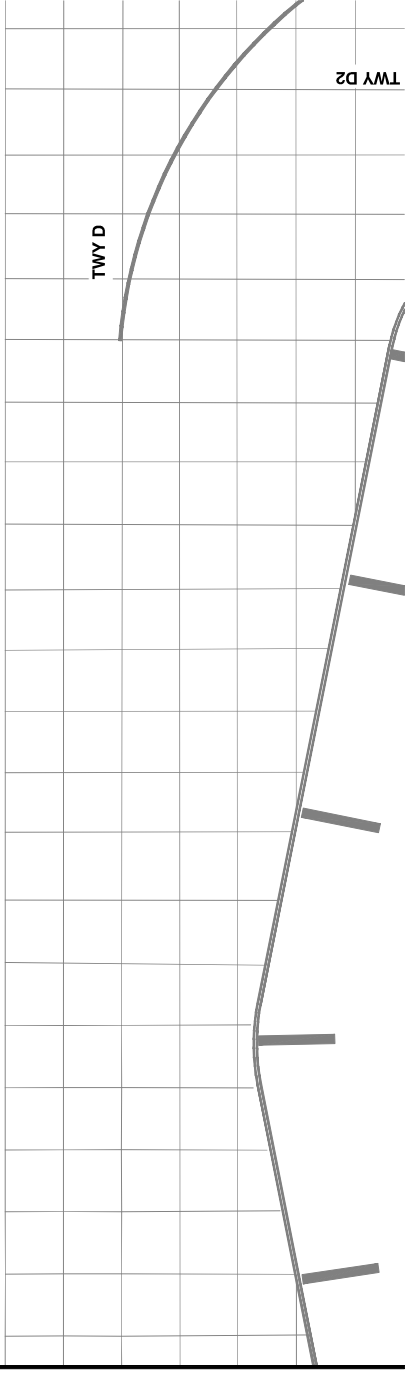
AP No: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW



KEY MAP
 NTS

MATCH LINE - SEE SHEET CI-104

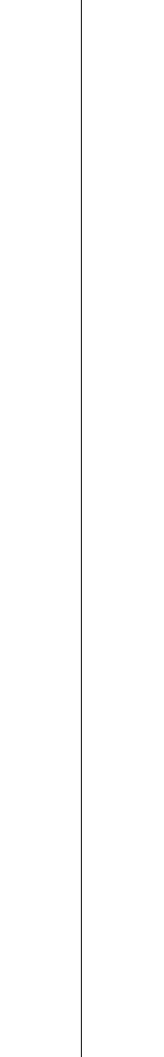
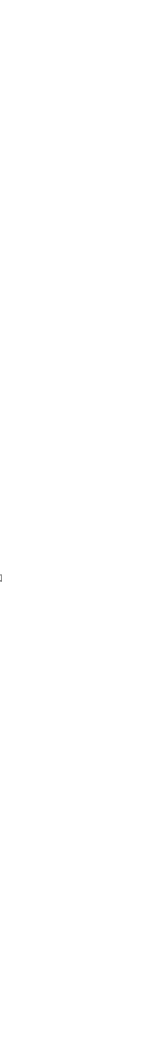
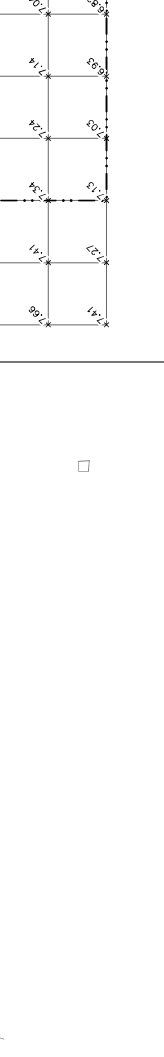
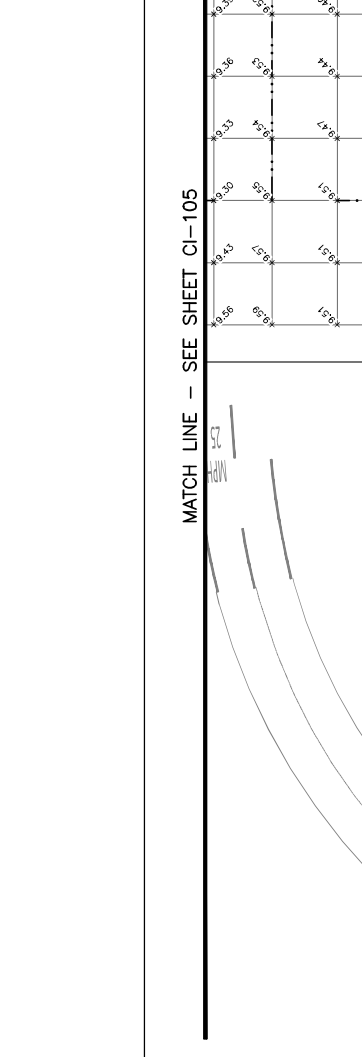
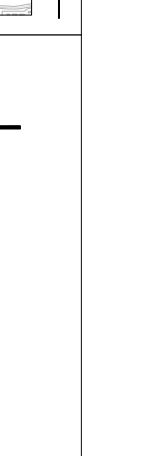
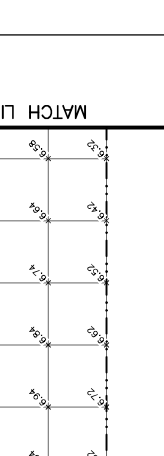
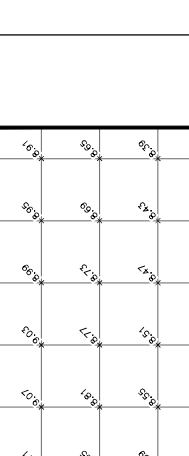
**NO PAVEMENT STAKING
 WORK THIS SHEET**



MATCH LINE - SEE SHEET CI-107

GENERAL NOTES

1. ADD 1100 TO ALL ELEVATIONS



PAYEMENT STAKING PLAN

APR NO: 2-04-0029-106-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVENI
Drawn by: A. SANTILLI
Designed by: C. SHAH

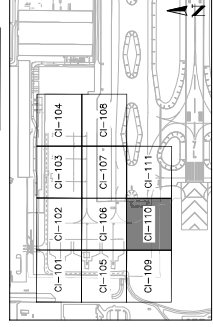
PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION
AV06000026 FAA

NO	REVISIONS / SUBMISSIONS	DATE
04/23	ISSUED FOR BID	

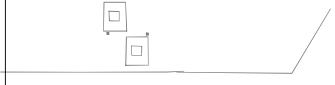
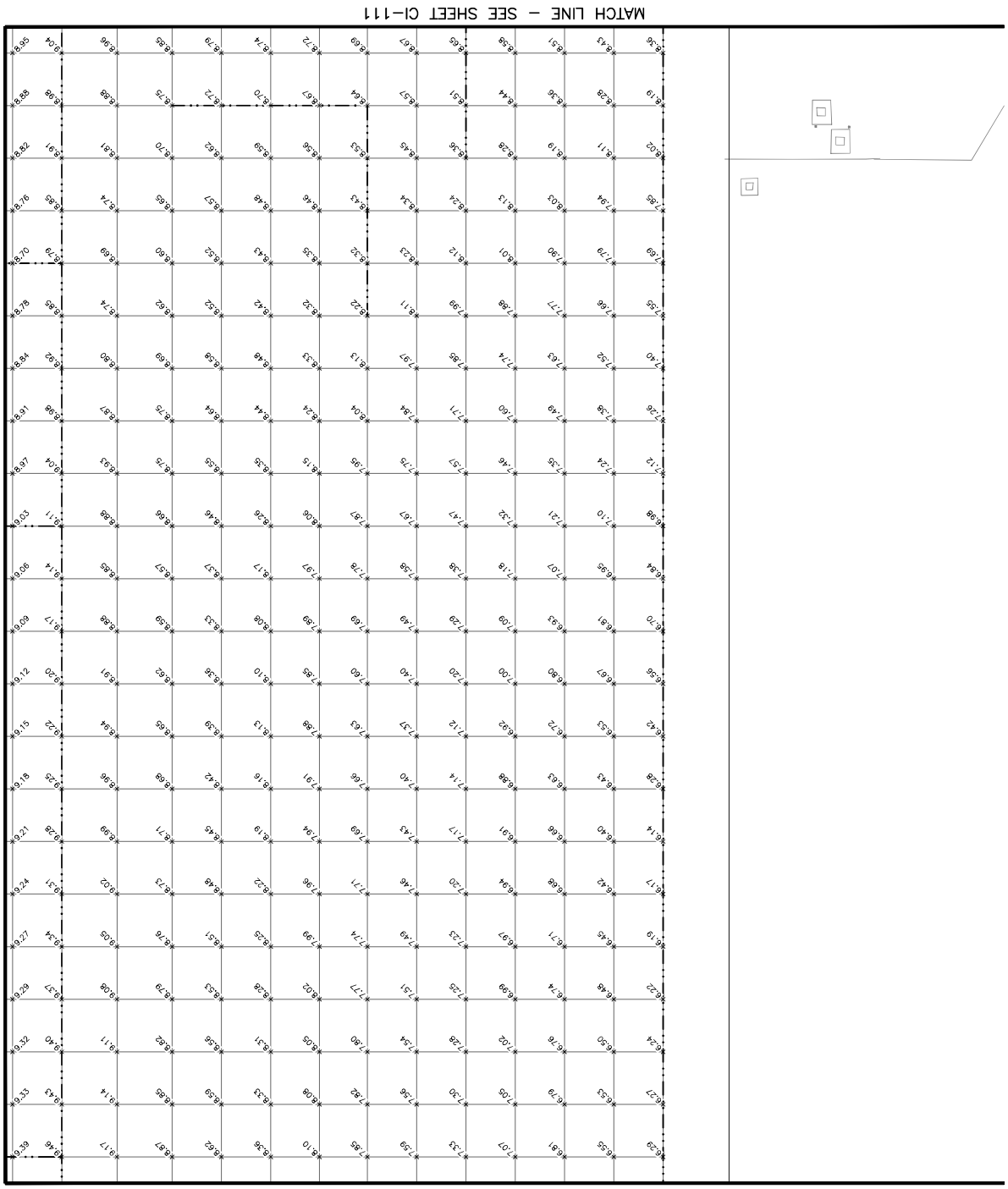


PHASE CONSULTANT

SHEET OVERVIEW TITLE



GENERAL NOTES
1. ADD 1100 TO ALL ELEVATIONS



AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JHAVERI
 Drawn by: A. SANTILLI
 Designed by: C. SHAH

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

NO	REVISIONS / SUBMISSIONS	DATE
04/23	ISSUED FOR BID	

PER CITY OF PHOENIX CITY CODE CHAPTER 22, 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.

REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 STATE OF ARIZONA
 No. 12345
 C. SHAH

TRAPE CONSULTING
 1000 N. CENTRAL EXPRESSWAY, SUITE 100
 PHOENIX, ARIZONA 85004

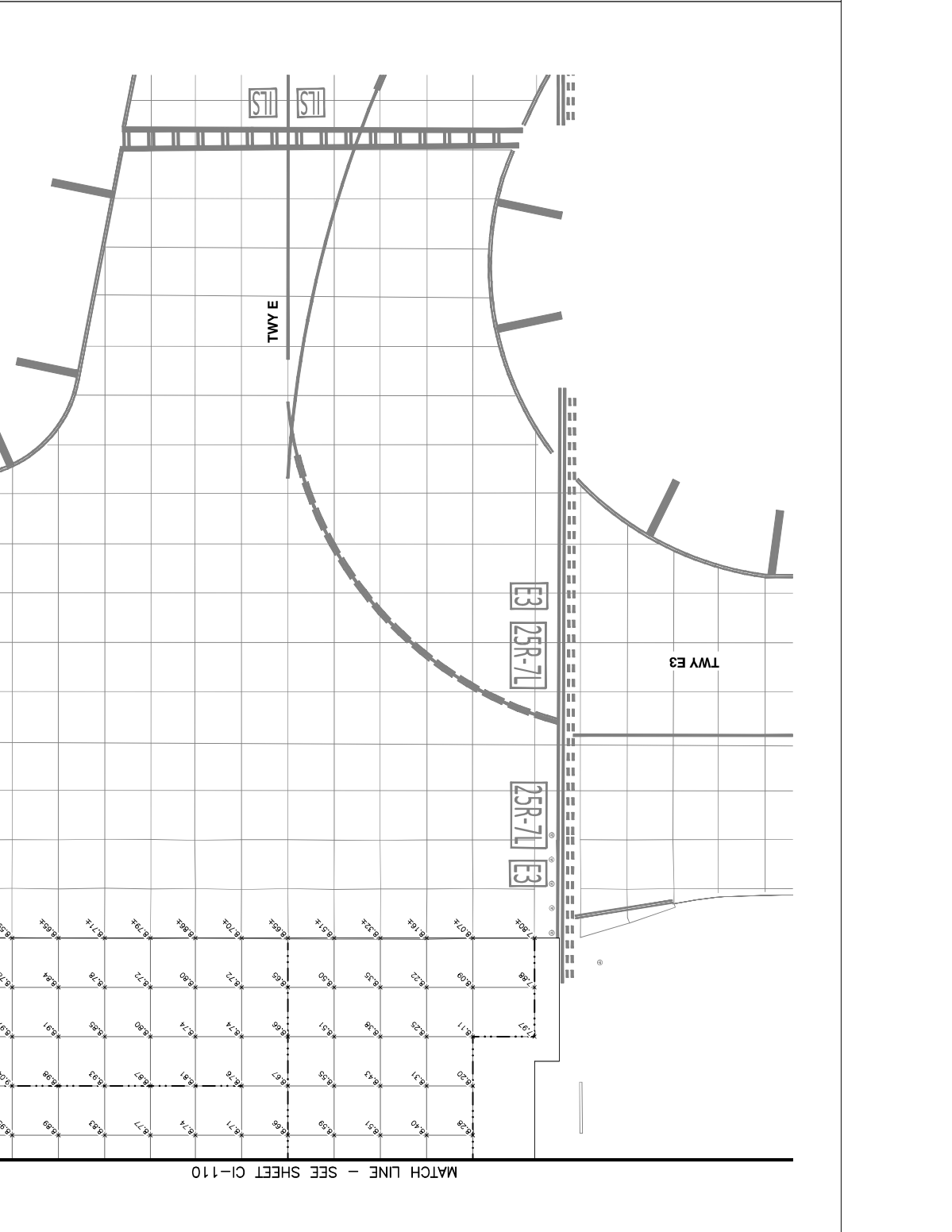
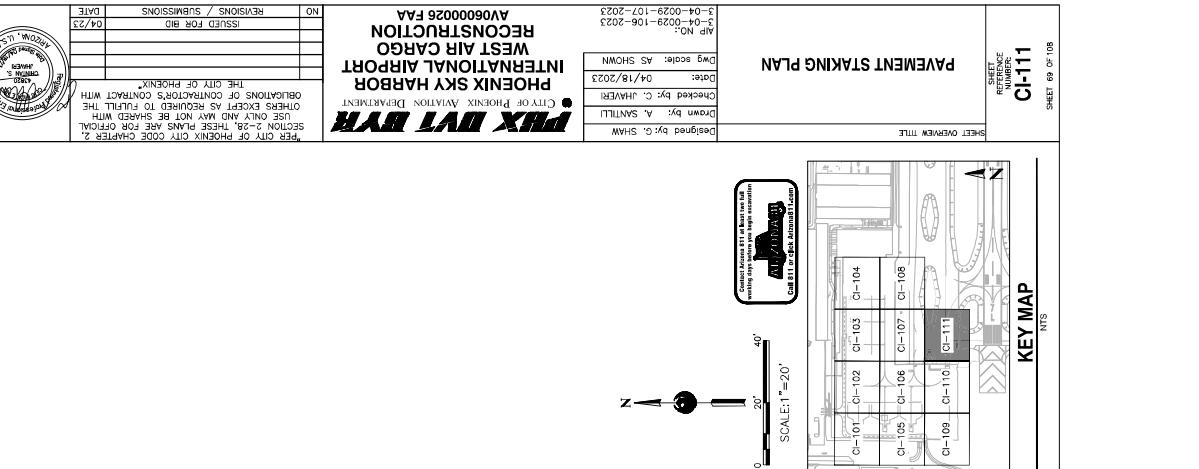
SHEET OVERVIEW TITLE
PAYEMENT STAKING PLAN

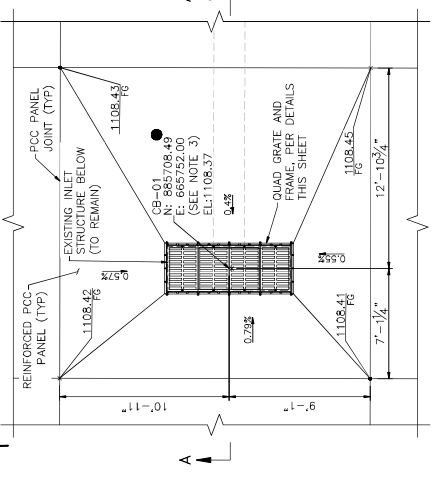
SHEET NUMBER
CI-111

SHEET OF 105

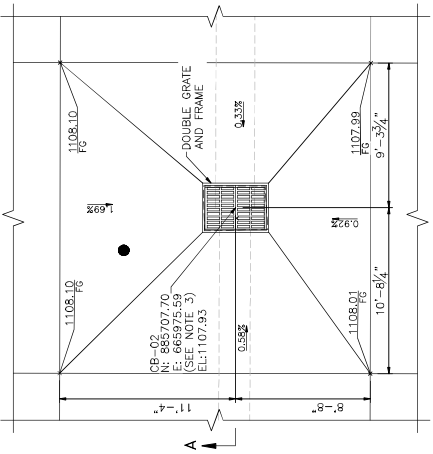
GENERAL NOTES

1. ADD 1100 TO ALL ELEVATIONS

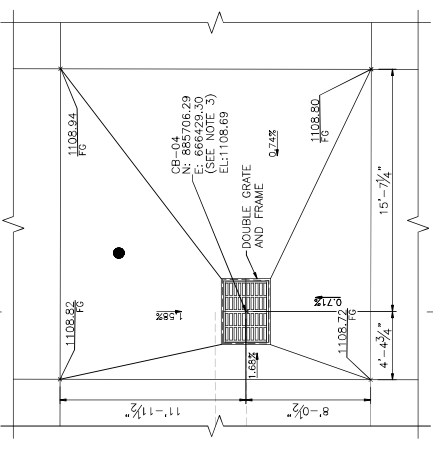




1 STORM DRAIN INLET NO.1 PLAN
SCALE: 1/4" = 1'-0"
REF. SHEET (CG-101)



2 STORM DRAIN INLET NO.2 PLAN
SCALE: 1/4" = 1'-0"
REF. SHEET (CG-102)



3 STORM DRAIN INLET NO. 3 PLAN
SCALE: 1/4" = 1'-0"
REF. SHEET (CG-103)

- NOTES:
- REFER TO GRADING & DRAINAGE SHEETS FOR LOCATIONS OF INLETS AND ADDITIONAL INFORMATION.
 - REFER TO PAVING AND JOINT DETAILS SHEET FOR REINFORCED PCC PAVEMENT PANEL DETAILS AND ADDITIONAL INFORMATION.
 - LOCATION SHOWN SHALL BE CENTER OF EXISTING INLET STRUCTURE BELOW GRADE. CONTRACTOR TO VERIFY LOCATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - REFER TO STORM DRAIN INLET DETAILS 3 OF REINFORCEMENT SPECIFICATIONS AND ADDITIONAL DETAILS.



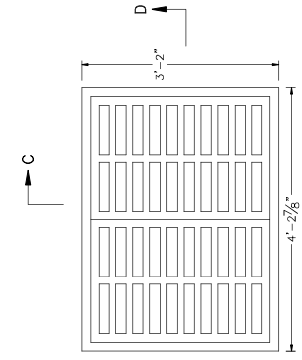
NO.	ISSUED FOR	DATE

PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
WEST AIR CARGO
RECONSTRUCTION
AV06000026 FAA

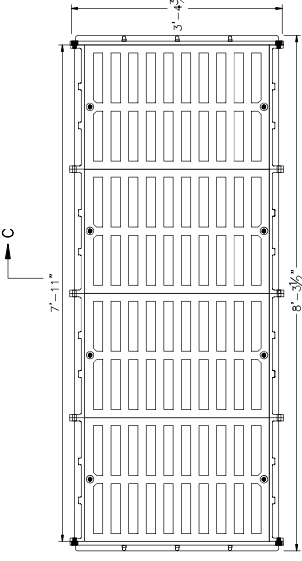
Designed by: R/W
Drawn by: R/W
Checked by: BMS
Date: 04/18/2023
Dwg score: AS SHOWN
AP No: 23-0000000000
3-04-0029-107-2023

SHEET OVERVIEW TITLE
STORM DRAIN INLET
DETAILS 1 OF 3

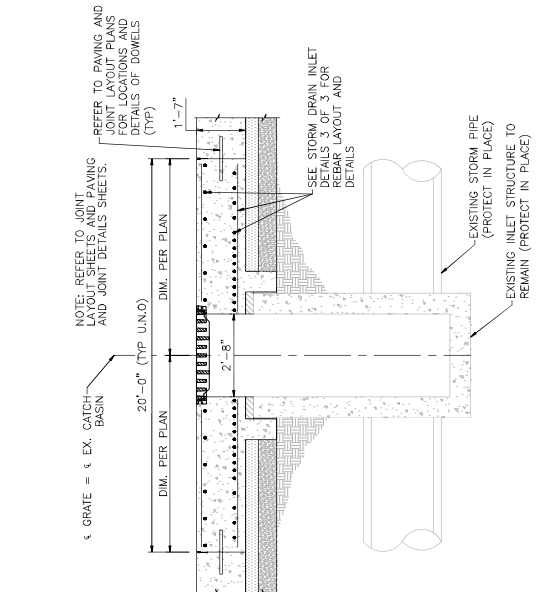
SHEET NUMBER
CU-501
SHEET 79 OF 108



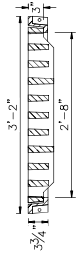
5 DOUBLE GRATE AND FRAME PLAN (NEENAH R-3475-F)
SCALE: 1" = 1'-0"



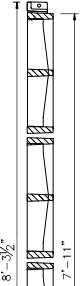
4 QUAD GRATE AND FRAME PLAN (NEENAH R-3475-H)
SCALE: 1" = 1'-0"



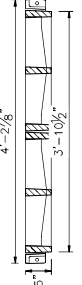
6 ADJUST EXISTING DRAINAGE STRUCTURE
SCALE: 1" = 1'-0"



7 GRATE AND FRAME
SCALE: 1" = 1'-0"



8 QUAD GRATE AND FRAME
SCALE: 1" = 1'-0"



9 DOUBLE GRATE AND FRAME
SCALE: 1" = 1'-0"



NO.	REVISIONS / SUBMISSIONS	DATE

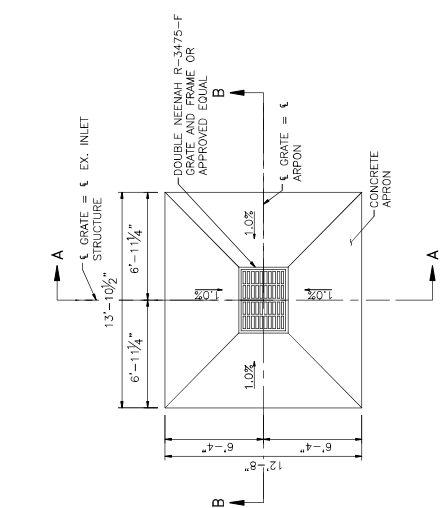
PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION
 INTERNATIONAL AIRPORT
 CITY OF PHOENIX AVIATION DEPARTMENT
 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX

Designed by: R/W
 Drawn by: R/W
 Checked by: BMS
 Date: 04/18/2023
 Dwg score: AS SHOWN
 AP NO: 3-04-0029-106-2023
 3-04-0029-106-2023

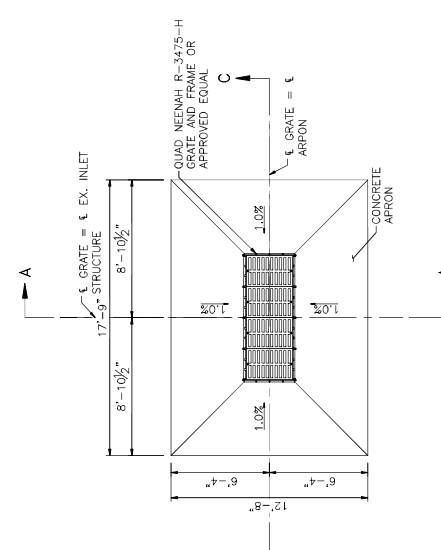
SHEET OVERVIEW TITLE
 STORM DRAIN INLET
 DETAILS 2 OF 3

SHEET NUMBER
 CU-502
 SHEET 71 OF 108

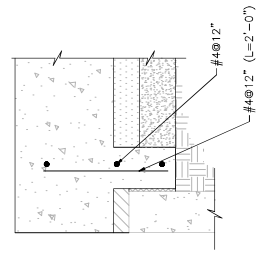
- NOTES:**
1. REFER TO STORM DRAIN INLET DETAILS 1 OF 3 SHEET FOR GRATE AND FRAME DETAILS.
 2. REFER TO STORM DRAIN INLET DETAILS 3 OF 3 SHEET FOR CONCRETE AND REINFORCEMENT SPECIFICATIONS AND ADDITIONAL DETAILS.
 3. REFER TO GRADING & DRAINAGE SHEETS FOR LOCATIONS OF INLETS, APRONS, AND ADDITIONAL INFORMATION.
 4. REFER TO PAVING AND JOINT DETAILS SHEET FOR JOINT LOCATION AND JOINT DETAILS AND ADDITIONAL INFORMATION.



3. DOUBLE GRATE INLET AND APRON PLAN
 SCALE: 3/8" = 1'-0"

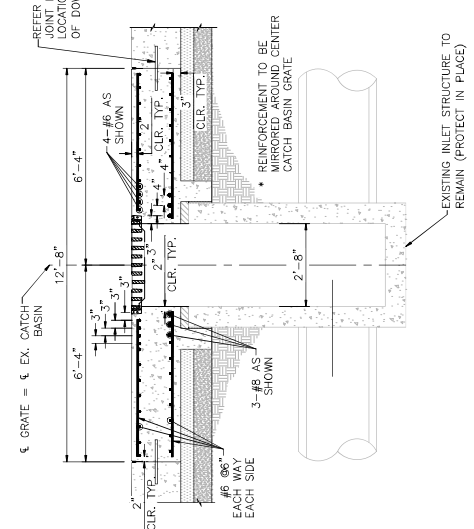


2. FOUR GRATE INLET AND APRON PLAN
 SCALE: 3/8" = 1'-0"



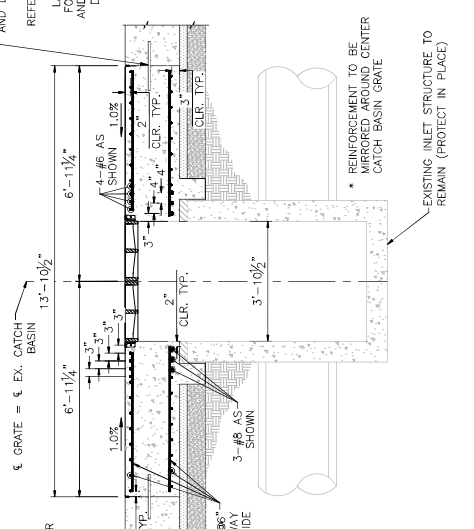
3. INLET TURN DOWN DETAIL
 SCALE: 3" = 1'-0"

NOTE: REFER TO JOINT LAYOUT SHEETS AND PAVING AND JOINT DETAILS SHEETS.



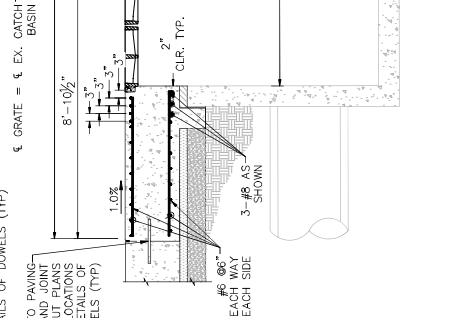
A. INLET APRON SECTION
 SCALE: 3/8" = 1'-0"

NOTE: REFER TO JOINT LAYOUT SHEETS AND PAVING AND JOINT DETAILS SHEETS.



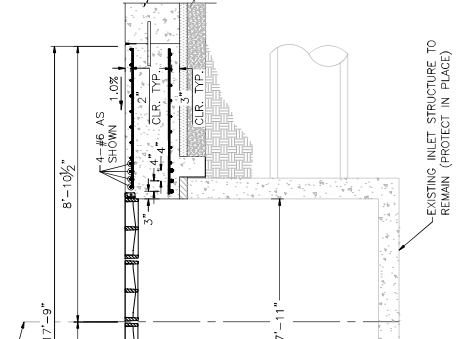
B. INLET APRON SECTION
 SCALE: 3/8" = 1'-0"

REFER TO PAVING AND JOINT LAYOUT PLANS FOR LOCATIONS AND DETAILS OF DOWELS (TYP)



C. INLET APRON SECTION
 SCALE: 3/8" = 1'-0"

NOTE: REFER TO JOINT LAYOUT SHEETS AND PAVING AND JOINT DETAILS SHEETS.



D. INLET APRON SECTION
 SCALE: 3/8" = 1'-0"



NO.	ISSUED FOR R/P	DATE

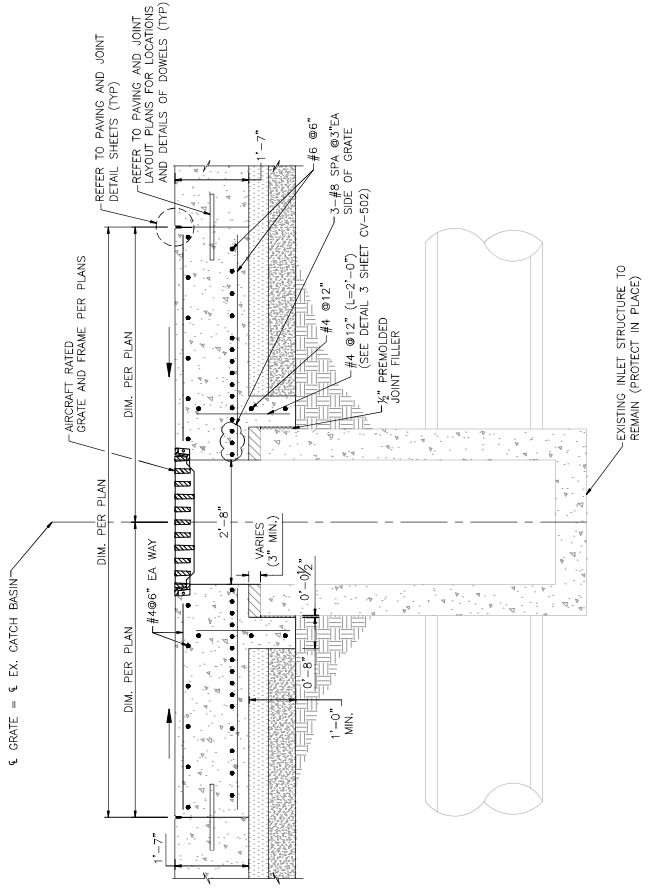
PDX DOT BYM
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT**
 AV06000026 FAA

APR NO:	3-04-0029-107-2023
Dwg score:	AS SHOWN
Date:	04/18/2023
Checked by:	BMS
Drawn by:	RLW
Designed by:	RLW

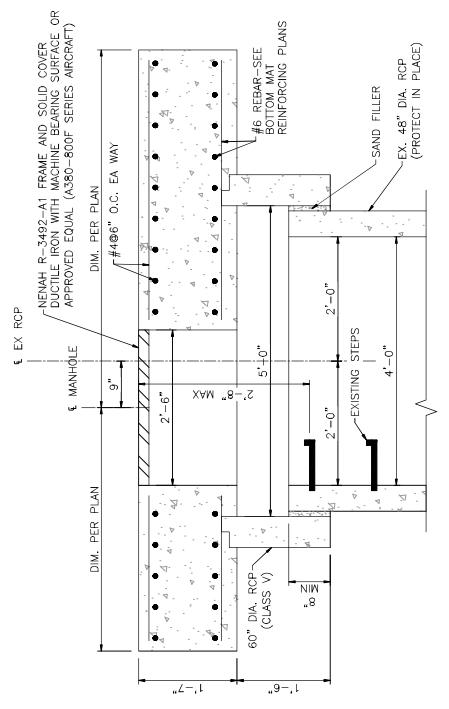
STORM DRAIN INLET
 DETAILS 3 OF 3

SHEET NUMBER
CU-503
 SHEET 77 OF 108

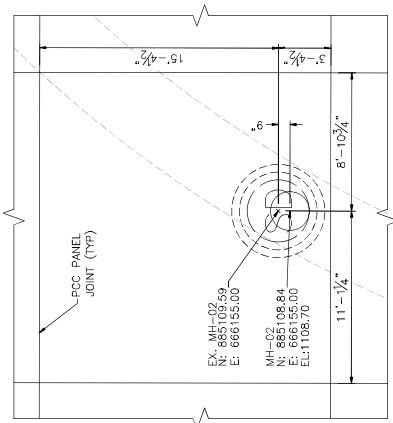
- GENERAL NOTES:**
- CONTRACTOR IS TO VERIFY DIMENSIONS OF EXISTING INLET STRUCTURES. IF THE EXISTING INLET STRUCTURE IS NOT AS SHOWN IN THESE DETAILS, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION OF SLAB REVISION.
 - TOP SLAB SHALL BE CENTERED OVER EXISTING INLET STRUCTURE OPENING. THE EXISTING INLET STRUCTURE SHALL NOT EXCEED 2'-8 1/2" - 11" SAW CUTTING OF THE EXISTING INLET STRUCTURE MAY BE REQUIRED FOR SETTING THE TOP SLAB AT PROPER GRADE.
 - REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF A305-800F. ALL REINFORCING BARS SHALL BE PLACED AGAINST EXPOSED SURFACES SHALL BE GALVANIZED OR PROVIDED WITH PLASTIC FEET.
 - MINIMUM COVER FOR REINFORCING SHALL BE THE CLEAR DISTANCE TO THE FACE OF BARS AS FOLLOWS: 2" UNLESS NOTED OTHERWISE.
 - ALL REINFORCING STEEL SHALL BE ACCURATELY POSITIONED AND ADEQUATELY TIED USING PROPER CHAIRS OR BOLSTERS AND SHALL BE INSPECTED PRIOR TO POURING CONCRETE.
 - CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH, $F_c = 4000$ PSI.
 - ALL CONCRETE EDGES, CORNERS, AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAN 1/2" UNLESS NOTED OTHERWISE.
 - ASSUMED LIVE LOAD: A WHEEL LOAD OF 62 KIPS BASED ON ARBUS A380-800F MODEL FOR ALL TOP SLABS. MAX BEARING PRESSURE (DEAD + LIVE) = 1500 PSF. ALLOWABLE BEARING CAPACITY OF SOILS = 2000 PSF.
 - SEE GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES INC., WT REF. NO. 2121A227, DATED SEPTEMBER 28, 2022.



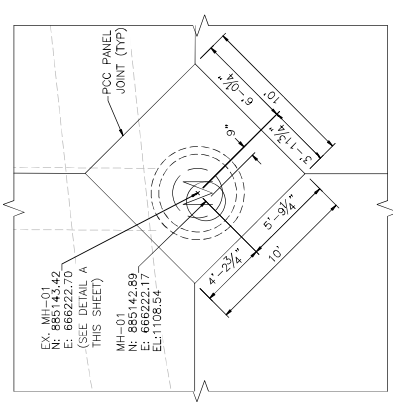
1 STORM DRAIN INLET SLAB TYPICAL SECTION
 SCALE: 3/4" = 1'-0"



EXISTING MANHOLE STRUCTURE
SCALE: 1" = 1'-0"

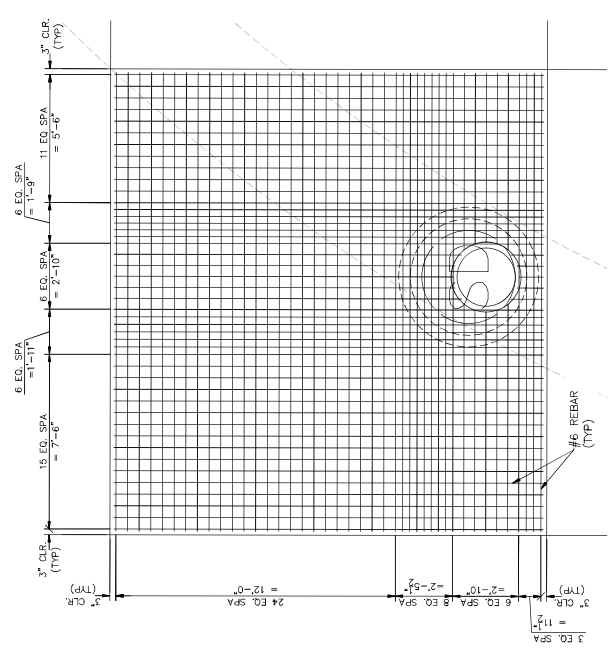


EXISTING MANHOLE PLAN (SHEET CG-106)
SCALE: 1/4" = 1'-0"

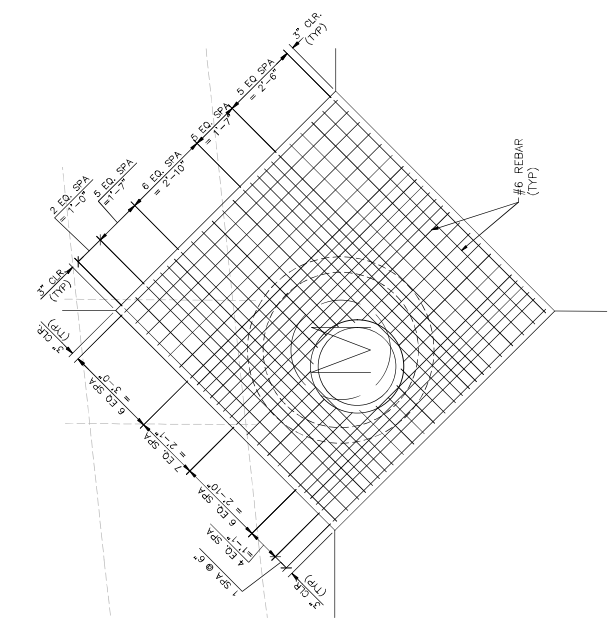


EXISTING MANHOLE PLAN (SHEET CG-106)
SCALE: 1/4" = 1'-0"

- NOTES:**
- REFER TO GRADING & DRAINAGE SHEETS FOR LOCATIONS OF INLETS AND ADDITIONAL INFORMATION.
 - REFER TO PAVING AND JOINT DETAILS SHEET FOR REINFORCED PCC PAVEMENT PANEL DETAILS AND ADDITIONAL INFORMATION.
 - LOCATION SHOWN SHALL BE CENTER OF EXISTING STRUCTURE UNLESS OTHERWISE NOTED TO BE BELOW GRADE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - REFER TO STORM DRAIN INLET DETAILS 3 OF 3 SHEET FOR CONCRETE AND REINFORCEMENT SPECIFICATIONS AND ADDITIONAL DETAILS.
 - CONTRACTOR TO VERIFY LOCATIONS OF EXISTING MANHOLE AND ADJUST THE ENGINEER OF ANY DISCREPANCIES. PROPOSED MANHOLE OPENING TO BE SHOWN OVER EXISTING ACCESS STEPS AS SHOWN.



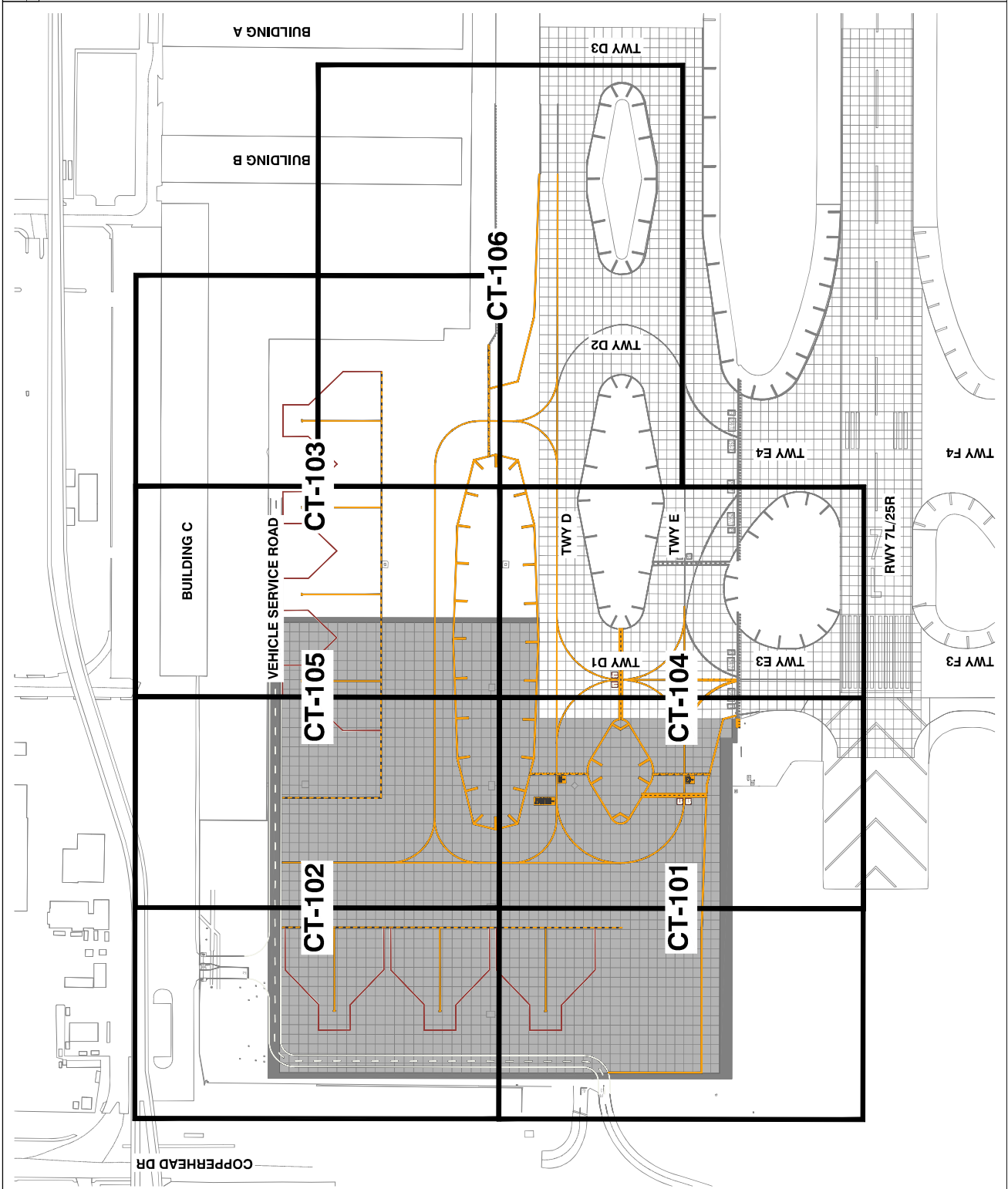
BOTTOM MAT REINFORCING PLAN
SCALE: 3/8" = 1'-0"



BOTTOM MAT REINFORCING PLAN
SCALE: 1/2" = 1'-0"



GENERAL NOTES
 1. THESE PLANS SHALL BE PRINTED IN COLOR



OVERALL AIRFIELD MARKING PLAN

APR NO:	2-04-0029-106-2023
DATE:	04/18/2023
Checked by:	C. JAHVENI
Drawn by:	A. SANTILLI
Designed by:	C. SHAW
Dwg scale:	AS SHOWN

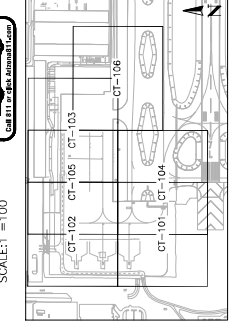
PHOENIX SKY HARBOR RECONSTRUCTION WEST AIR CARGO INTERNATIONAL AIRPORT
PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
 AV06000026 FAA

NO	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23



TRAEGE CONSULTING
 1000 N. CENTRAL AVENUE, SUITE 1000
 PHOENIX, ARIZONA 85004

SHEET OVERVIEW TITLE
CT-100
 SHEET NUMBER OF NUMBER



PER CITY OF PHOENIX CITY CODE CHAPTER 22, 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.

GENERAL NOTES

1. THESE PLANS SHALL BE PRINTED IN COLOR

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	45.76'	30.00'	87° 23' 58"	28.67'
C2	64.07'	42.00'	87° 23' 58"	40.14'
C3	92.37'	54.00'	87° 23' 58"	51.60'

PHOENIX AIRPORT AUTHORITY
 AIRPORT CONSTRUCTION
 PHOENIX, ARIZONA

NO.	ISSUED FOR	DATE

PER CITY OF PHOENIX CITY CODE CHAPTER 22, 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 CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.

PHX DOT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION**
 AV06000026 FAA

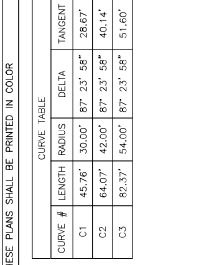
AP NO: 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

SHEET OVERVIEW TITLE

SHEET NO. **CT-101**
 SHEET OF NUMBER

SHEET 75 OF 105

ARFIELD MARKING PLAN

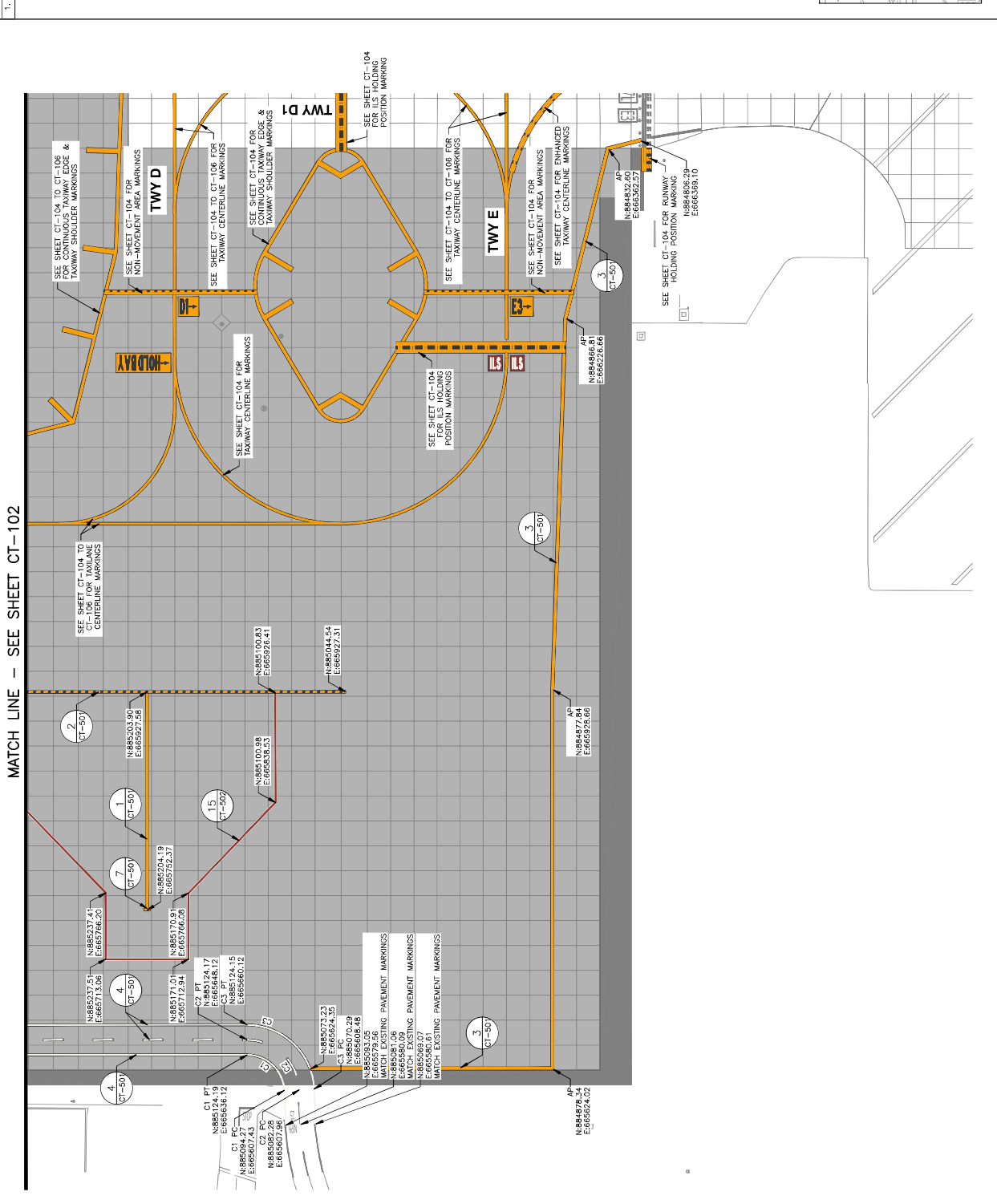


SCALE: 1"=40'



0 40' 80'

GENERAL NOTE: ALL MARKINGS SHALL BE SET TO THE CENTERLINE UNLESS OTHERWISE NOTED.



MATCH LINE - SEE SHEET CT-102

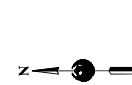
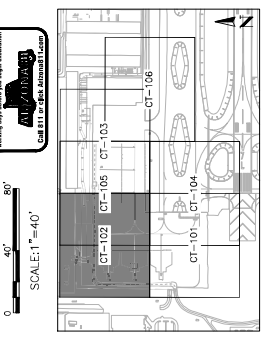
DESIGNED BY: C. SHAW
DRAWN BY: A. SANTILLI
CHECKED BY: C. JAHVEN
DATE: 04/18/2023
DWG SCALE: AS SHOWN
APP NO.: 2022-0001
APP DATE: 04-0029-107-2023

PHX DVT BYN
CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT**
AV0000026 FAA

NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23



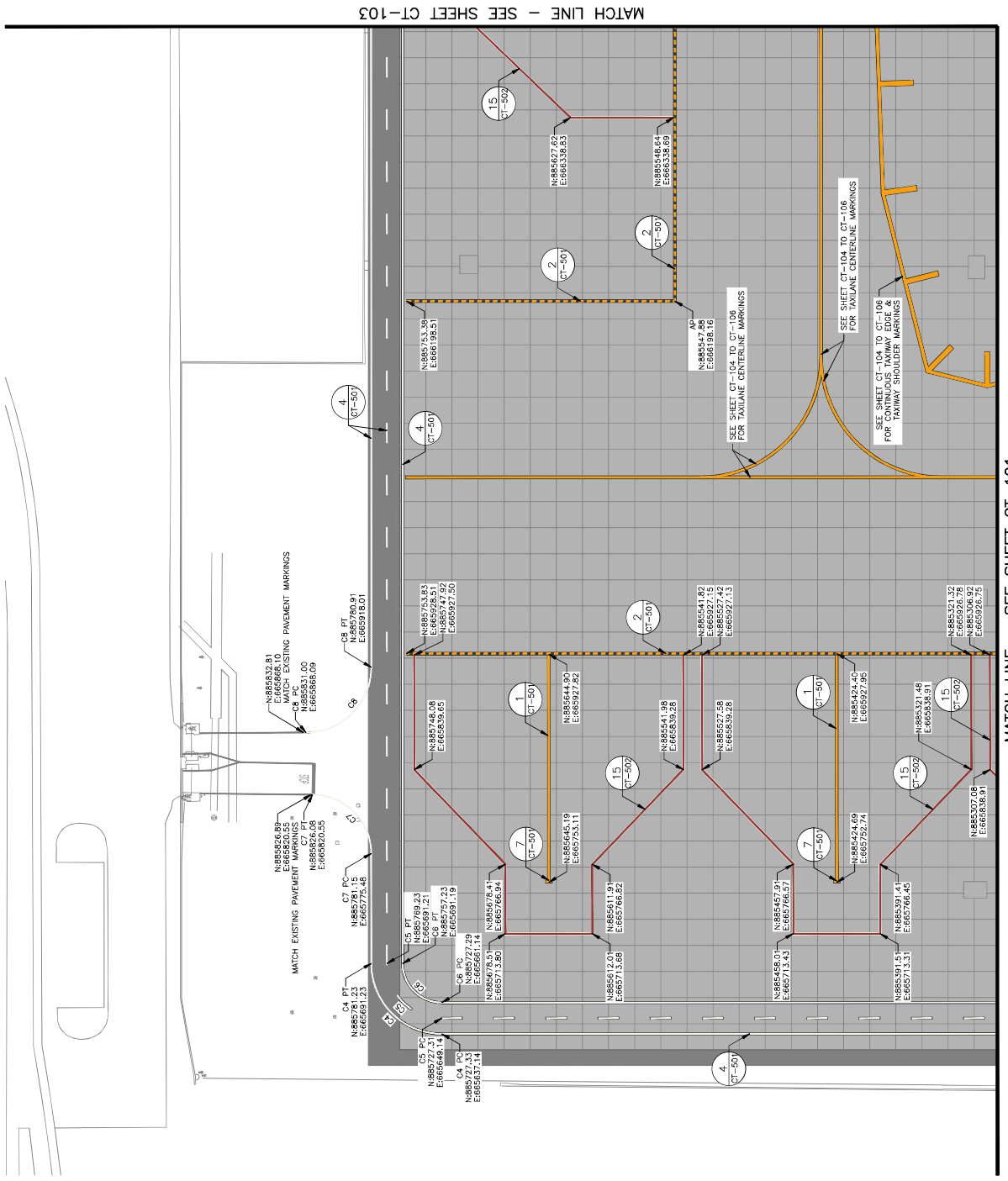
PER CITY OF PHOENIX CITY CODE CHAPTER 22, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTORS' CONTRACT WITH THE CITY OF PHOENIX.



CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C4	84.82'	54.00'	89° 00' 00"	54.00'
C5	65.97'	42.00'	89° 00' 00"	42.00'
C6	47.12'	30.00'	89° 00' 00"	30.00'
C7	70.69'	45.00'	89° 00' 00"	45.00'
C8	78.54'	50.00'	89° 00' 00"	50.00'

GENERAL NOTES
1. THESE PLANS SHALL BE PRINTED IN COLOR



MATCH EXISTING PAVEMENT MARKINGS*
 N+88526.69
 E+665968.10
 C7 PT
 N+885831.00
 E+665966.09

MATCH EXISTING PAVEMENT MARKINGS*
 N+885532.81
 E+665968.10
 C8 PC
 N+885831.00
 E+665966.09

C4 PT
 N+885721.31
 E+665949.14

C5 PT
 N+885771.29
 E+665961.14

C6 PC
 N+885721.31
 E+665949.14

C7 PC
 N+885771.29
 E+665961.14

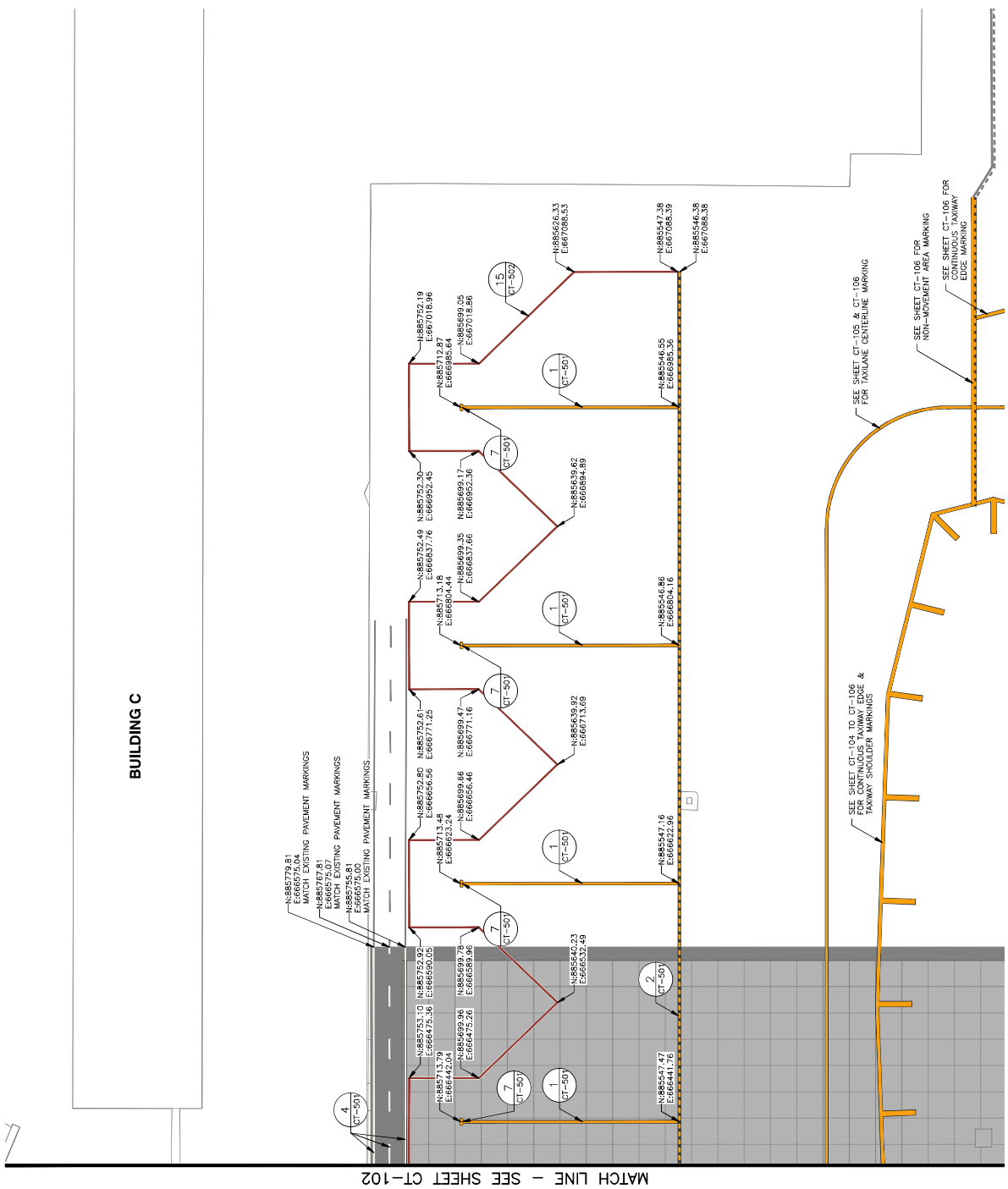
C8 PT
 N+885771.29
 E+665961.14

MATCH LINE - SEE SHEET CT-101

MATCH LINE - SEE SHEET CT-103

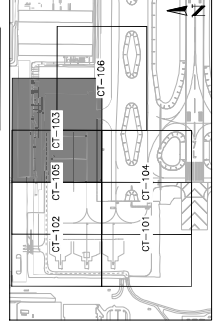
GENERAL NOTES

1. THESE PLANS SHALL BE PRINTED IN COLOR



MATCH LINE - SEE SHEET CT-102

BUILDING C



KEY MAP
NTS

DESIGNED BY: C. SHAW
DRAWN BY: A. SANTILLI
CHECKED BY: C. JAHVENI
DATE: 04/18/2023
DWG SCALE: AS SHOWN
APP NO: 2-04-0029-106-2023

PHX DOT BYN
CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA**

NO	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE
			04/23



TRAUGE
CONSULTING

SHEET OVERVIEW TITLE
CT-103

SHEET NUMBER
SHEET 77 OF 108

PER CITY OF PHOENIX CITY CODE CHAPTER 22, 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 THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.



NO.	ISSUED FOR	DATE
	REVISIONS / SUBMISSIONS	04/23

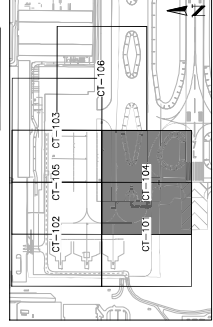
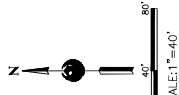
PHX DVT BYR
CITY OF PHOENIX AIRPORT DEPARTMENT
**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT**
AV0600026 FAA

AP NO: 2-04-0029-106-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVEN
Drawn by: A. SANTILLI
Designed by: C. SHAW

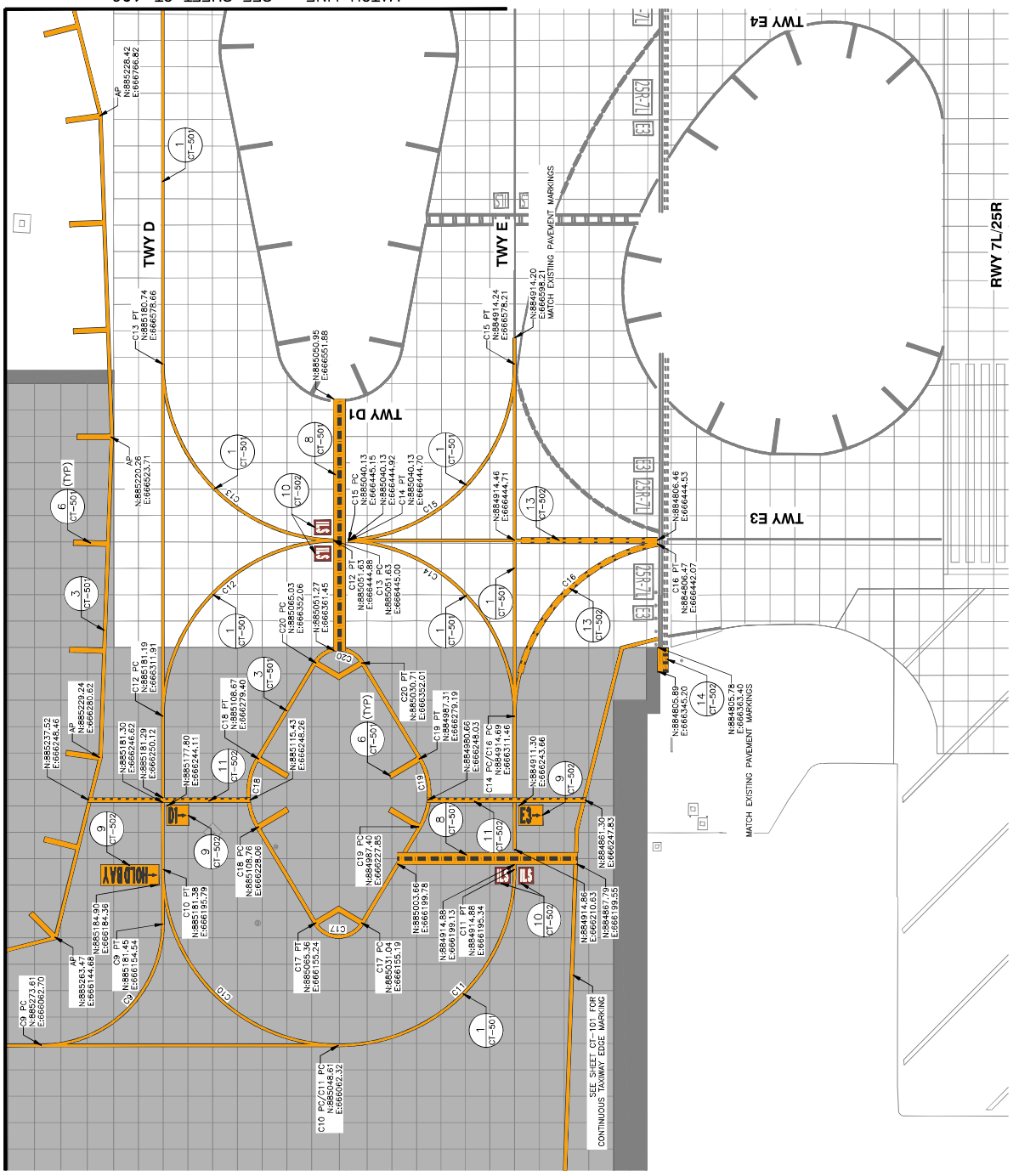
SHEET OVERVIEW TITLE
ARFIELD MARKING PLAN
SHEET NUMBER
CT-104
SHEET 78 OF 105

GENERAL NOTES
1. THESE PLANS SHALL BE PRINTED IN COLOR

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C9	144.51'	92.00'	90° 00' 00"	92.00'
C10	209.31'	133.25'	90° 00' 00"	133.25'
C11	209.31'	133.25'	90° 00' 00"	133.25'
C12	205.59'	133.25'	88° 18' 59"	129.39'
C13	205.54'	133.50'	88° 12' 44"	129.40'
C15	201.86'	133.50'	86° 38' 08"	125.88'
C16	184.24'	133.50'	78° 59' 18"	110.03'
C17	41.27'	200.00'	118° 13' 00"	33.43'
C18	53.92'	50.00'	61° 47' 00"	29.91'
C19	53.92'	50.00'	61° 47' 00"	29.91'
C20	41.27'	200.00'	118° 13' 00"	33.43'



MATCH LINE - SEE SHEET CT-105



MATCH LINE - SEE SHEET CT-106

DESIGNED BY: C. SHAM
 DRAWN BY: A. SANTILLI
 CHECKED BY: C. JHAVERI
 DATE: 04/18/2023
 Dwg scale: AS SHOWN
 AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023

PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION
 AV06000026 FAA

CITY OF PHOENIX AVIATION DEPARTMENT
 PHX DOT BYR

FOR CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL ORDINATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

ISSUED FOR BID 04/23

NO. _____

REVISIONS / SUBMISSIONS

DATE

PHOENIX CONSULTANT

TRAPE CONSULTING

PHOENIX, U.S.A.

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL ORDINATIONS OF CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

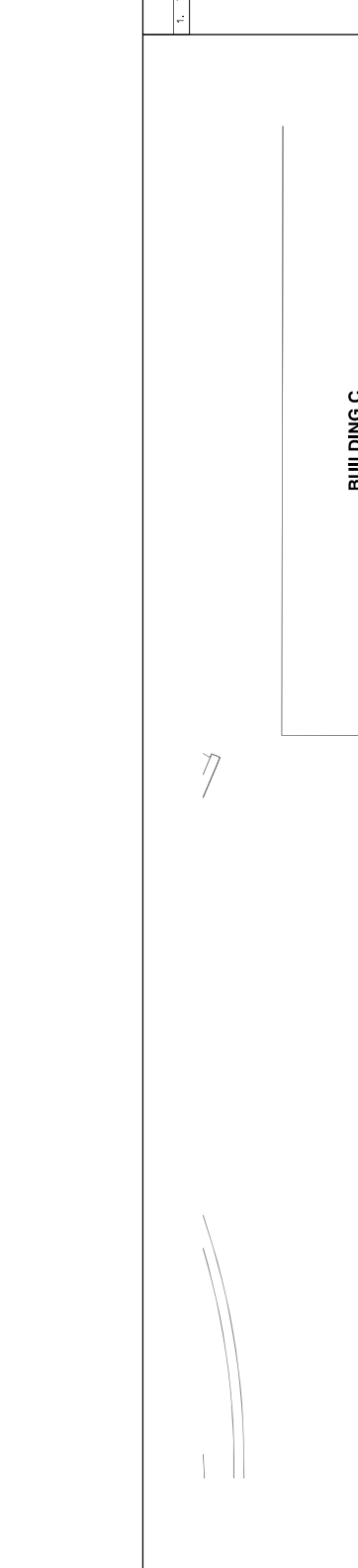
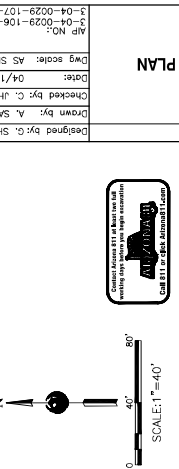
APRIL 18, 2023

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C21	144.51'	92.00'	90° 00' 00"	92.00'
C22	144.51'	92.00'	90° 00' 00"	92.00'

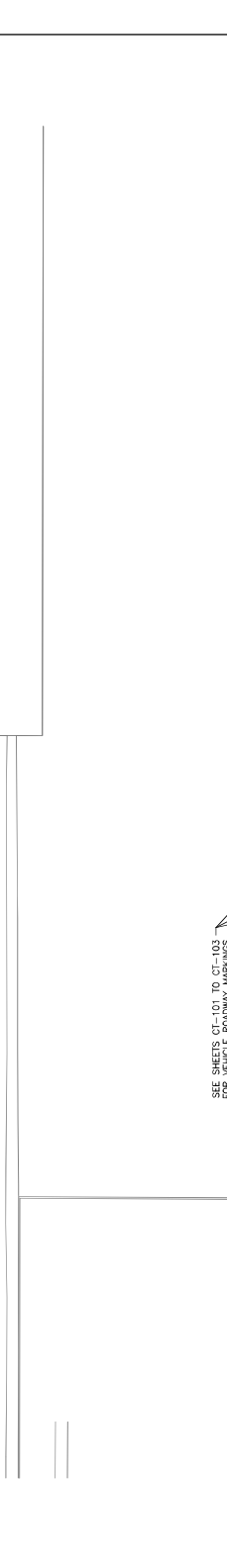
1. THESE PLANS SHALL BE PRINTED IN COLOR

GENERAL NOTES

1. THESE PLANS SHALL BE PRINTED IN COLOR



BUILDING C



SEE SHEETS CT-101 TO CT-103 FOR VEHICLE ROADWAY MARKINGS

SEE SHEET CT-102 & CT-103 FOR APRON PARKING MARKING

SEE SHEETS CT-102 & CT-103 FOR INTERMEDIATE HOLDING POSITION MARKING

SEE SHEET CT-103 FOR APRON PARKING MARKING

SEE SHEET CT-103 FOR APRON PARKING MARKING

SEE SHEETS CT-102 & CT-103 FOR INTERMEDIATE HOLDING POSITION MARKING

SEE SHEET CT-103 FOR APRON PARKING MARKING

SEE SHEETS CT-102 & CT-103 FOR INTERMEDIATE HOLDING POSITION MARKING

SEE SHEET CT-103 FOR APRON PARKING MARKING

SEE SHEETS CT-101 TO CT-103 FOR VEHICLE ROADWAY MARKINGS

N:\2022\22001 - BH West Air Cargo Reconstruction\Drawings - Apr 25, 2023 11:50am

AP N885753.67
E:66603511
C21 PC
N885529.11
E:66603513
C21 PT
N885450.95
E:666154.97
AP N885387.74
E:666290.89
C21 PT
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AP N885387.42
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C21 PC
N885374.22
E:666144.83
AP N885306.74
E:666133.45
C21 PC
N885344.11
E:666052.82



PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

AP NO: 2-04-0029-106-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVEN
Drawn by: A. SANTILLI
Designed by: C. SHAW

NO. _____
ISSUED FOR BID _____
REVISIONS / SUBMISSIONS _____
DATE 04/23

FOR CITY OF PHOENIX CITY CODE CHAPTER 22, 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.

PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

AP NO: 2-04-0029-106-2023
Dwg scale: AS SHOWN
Date: 04/18/2023
Checked by: C. JAHVEN
Drawn by: A. SANTILLI
Designed by: C. SHAW

NO. _____
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REVISIONS / SUBMISSIONS _____
DATE 04/23

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PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

AP NO: 2-04-0029-106-2023
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Designed by: C. SHAW

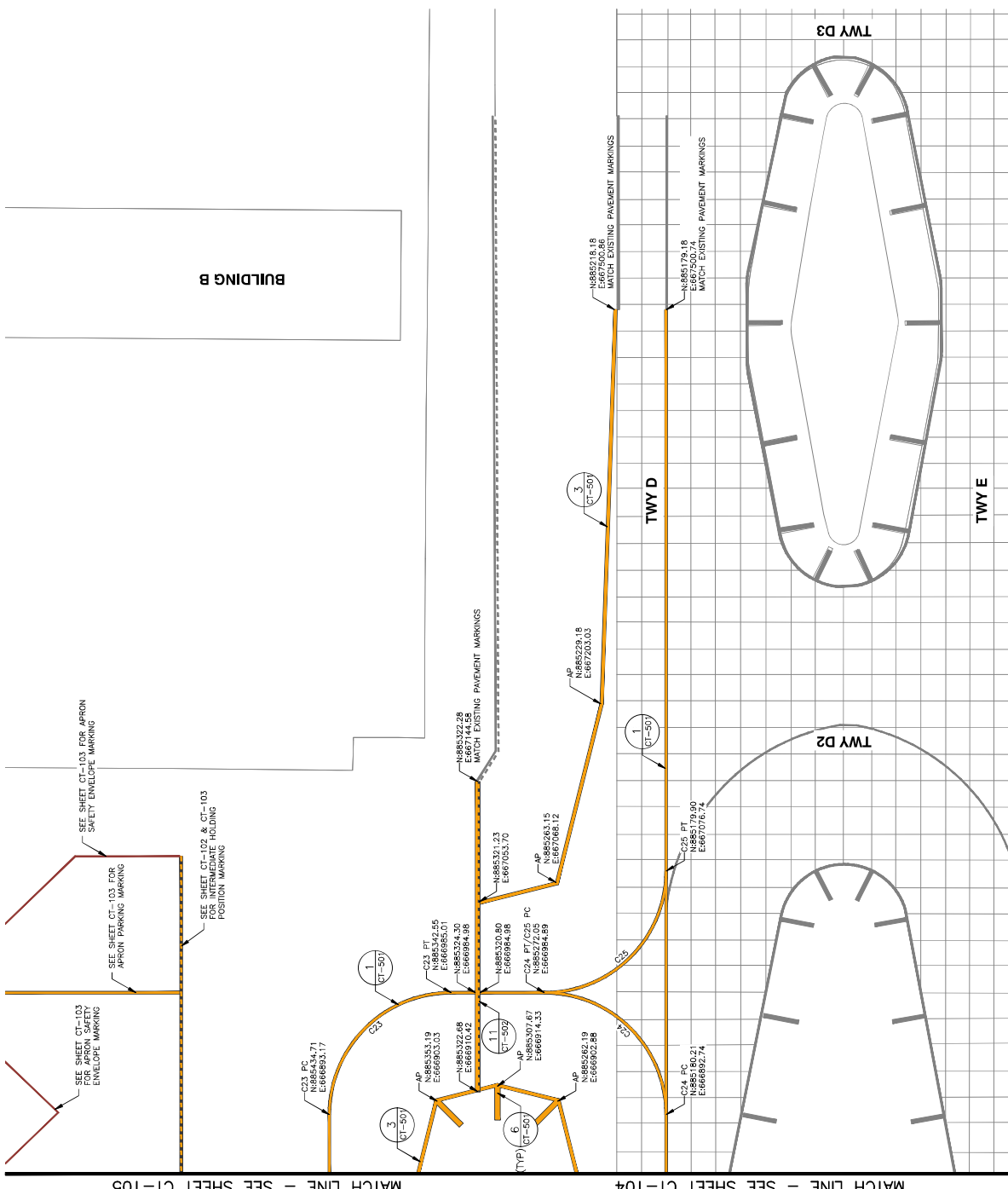
NO. _____
ISSUED FOR BID _____
REVISIONS / SUBMISSIONS _____
DATE 04/23

FOR CITY OF PHOENIX CITY CODE CHAPTER 22, 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.

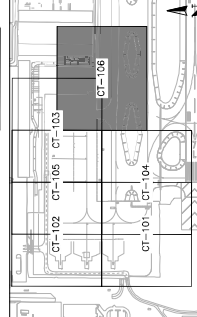
GENERAL NOTES

1. THESE PLANS SHALL BE PRINTED IN COLOR

CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C23	144.51'	92.00'	90° 00' 00"	92.00'
C24	144.51'	92.00'	90° 00' 00"	92.00'
C25	144.51'	92.00'	90° 00' 00"	92.00'



MATCH LINE - SEE SHEET CT-105 (Left) / MATCH LINE - SEE SHEET CT-104 (Right)



KEY MAP
NTS

ARFIELD MARKING PLAN

SHEET OVERVIEW TITLE

SHEET NUMBER
CT-106

SHEET 80 OF 108

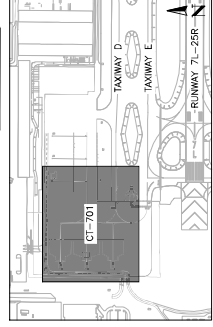
APR NO:	2-04-0029-106-2023
DATE:	04/18/2023
DWG SCALE:	AS SHOWN
CHECKED BY:	C. JAHVERI
DRAWN BY:	A. SANTILLI
DESIGNED BY:	C. SHAW

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

NO.	ISSUED FOR BID	REVISIONS / SUBMISSIONS	DATE
			04/23

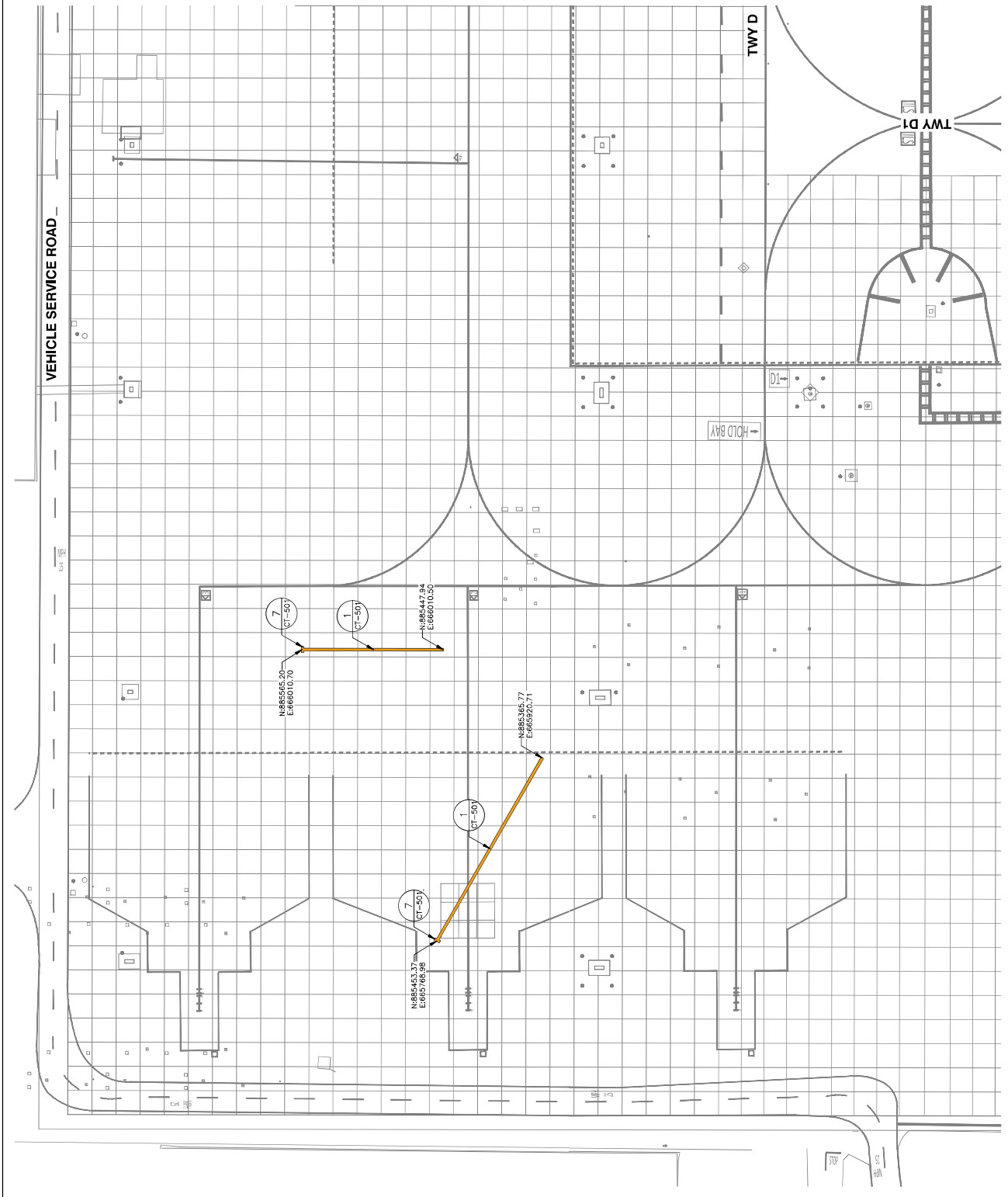


PHASE CONSULTANT



KEY MAP
NTS

GENERAL NOTES
 1. THESE PLANS SHALL BE PRINTED IN COLOR



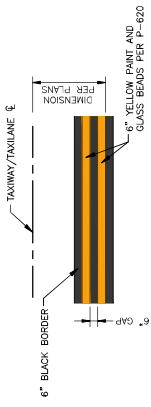


NO.	REVISIONS / SUBMISSIONS	DATE

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

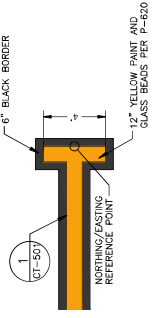
Drawn by:	A. SANTILLI
Checked by:	C. JAHVERI
Date:	04/18/2023
Drawn scale:	AS SHOWN
Proj. No.:	2-04-0029-106-2023

Designed by: C. SHAH
SHEET OVERVIEW TITLE
AIRFIELD MARKING DETAILS



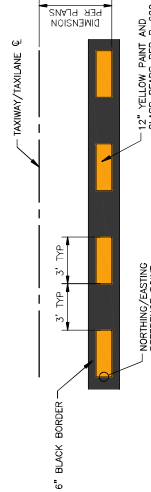
CONTINUOUS TAXIWAY EDGE MARKING
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



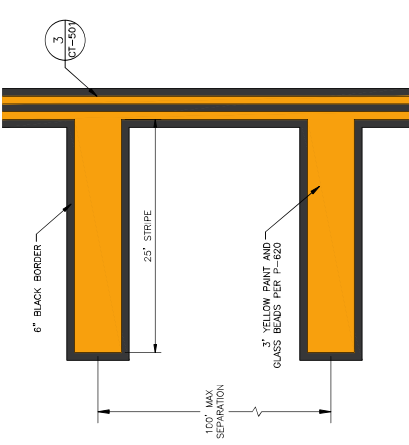
PARKING POSITION END LINE
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



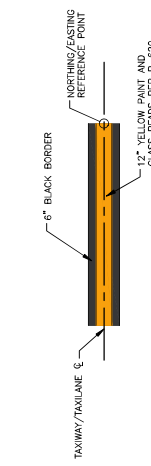
PATTERN C INTERMEDIATE HOLDING POSITION MARKING
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



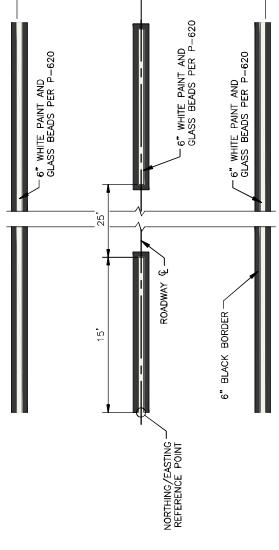
TAXIWAY SHOULDER MARKING
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



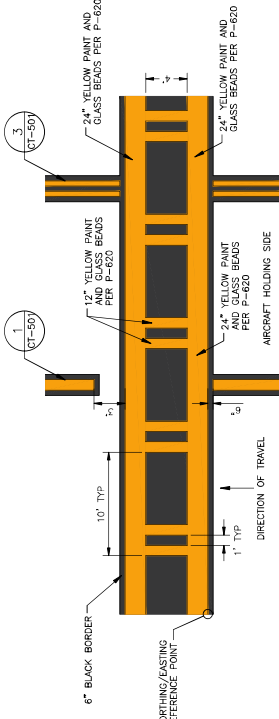
TAXIWAY CENTERLINE MARKING
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



VEHICLE ROADWAY MARKINGS
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

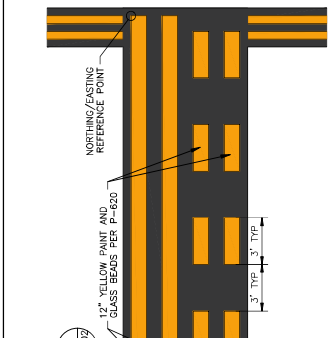


PATTERN B ILS HOLDING POSITION MARKING
CT-501 N.T.S.

- NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

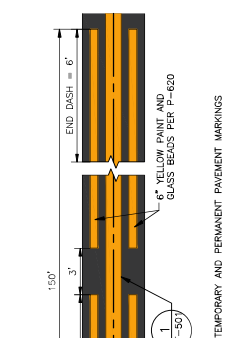
GENERAL NOTES

1. THESE PLANS SHALL BE PRINTED IN COLOR.
2. ALL MARKINGS ARE SUBJECT TO FINAL APPROVAL BY AIRPORT OPERATIONS.
3. FINAL MARKING SHALL ALIGN WITH EXISTING MARKING AT EDGE OF NEW PAVEMENT.
4. YELLOW AND WHITE PAINT SHALL HAVE TYPE III GLASS BEADS PER P-620.
5. ALL NEW PAVEMENT MARKINGS UNLESS OTHERWISE SHOWN SHALL HAVE A 6" BLACK BORDER ON THE OUTSIDE OF THE MARKINGS. GLASS BEADS SHALL BE USED ON THE BLACK BORDER.
6. OBLIQUE EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED PAVEMENT MARKING LAYOUT AND CLEARANCES.

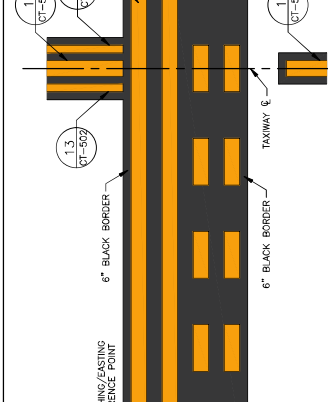


NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

1.4. RUNWAY HOLDING POSITION MARKING
N.T.S.

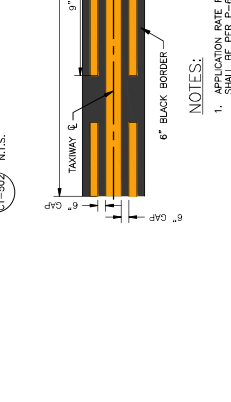


NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.
3. ENHANCED TAXIWAY CENTERLINE MARKINGS
CT-502 N.T.S.

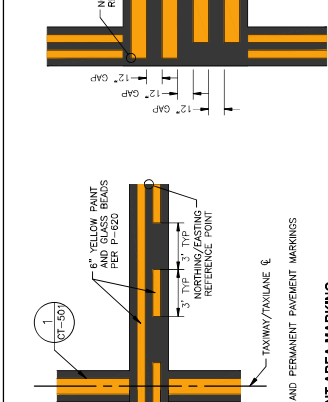


NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.

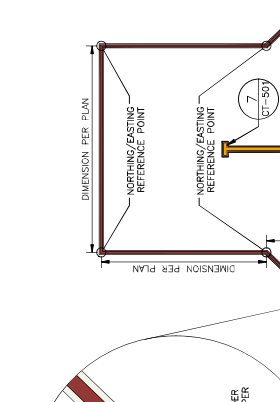
1.1. NON-MOVEMENT AREA MARKING
N.T.S.



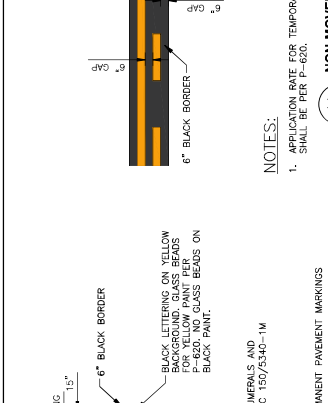
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. E3 SIGN SHOWN FOR REFERENCE, SEE MARKING PLANS FOR INSCRIPTIONS AND LOCATIONS.
3. SURFACE PAINTED TAXIWAY DIRECTION SIGN
CT-502 N.T.S.



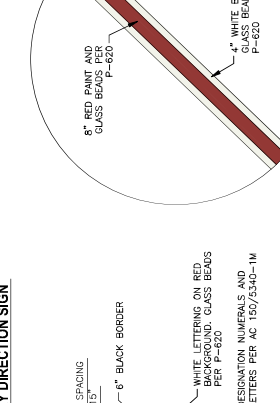
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. SURFACE PAINTED ILS HOLDING POSITION SIGN
CT-502 N.T.S.



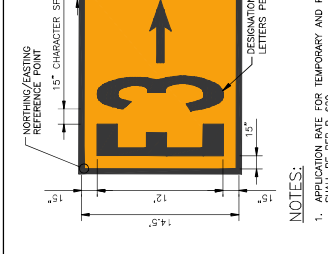
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. SAFETY ENVELOPE MARKING
CT-502 N.T.S.



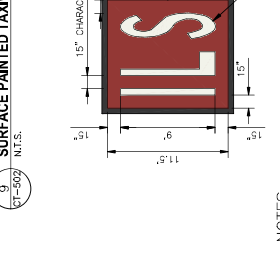
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ILS HOLDING POSITION SIGN DIMENSIONS
CT-502 N.T.S.



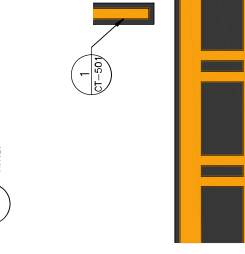
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ILS HOLDING POSITION SIGN DIMENSIONS
CT-502 N.T.S.



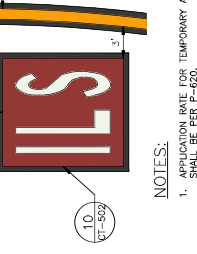
NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.
3. ENHANCED TAXIWAY CENTERLINE MARKINGS
CT-502 N.T.S.



NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ENHANCED TAXIWAY CENTERLINE MARKING DIMENSIONS TAKEN ALONG TAXIWAY CENTERLINE.
3. ENHANCED TAXIWAY CENTERLINE MARKINGS
CT-502 N.T.S.



NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.



NOTES:
1. APPLICATION RATE FOR TEMPORARY AND PERMANENT PAVEMENT MARKINGS SHALL BE PER P-620.
2. ILS HOLDING POSITION SIGN DIMENSIONS
CT-502 N.T.S.



BORING MAP

AP NO: 2-04-0029-106-2023
 2-04-0029-107-2023
 Dwg scale: AS SHOWN
 Date: 04/18/2023
 Checked by: C. JAHVENI
 Drawn by: A. SANTILLI
 Designed by: C. SHAW

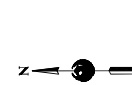
PHX DVT BYA
 CITY OF PHOENIX AVIATION DEPARTMENT
**PHOENIX SKY HARBOR
 WEST AIR CARGO
 RECONSTRUCTION**
 AV06000026 FAA

NO	ISSUED FOR RFD	REVISIONS / SUBMISSIONS	DATE
			04/23

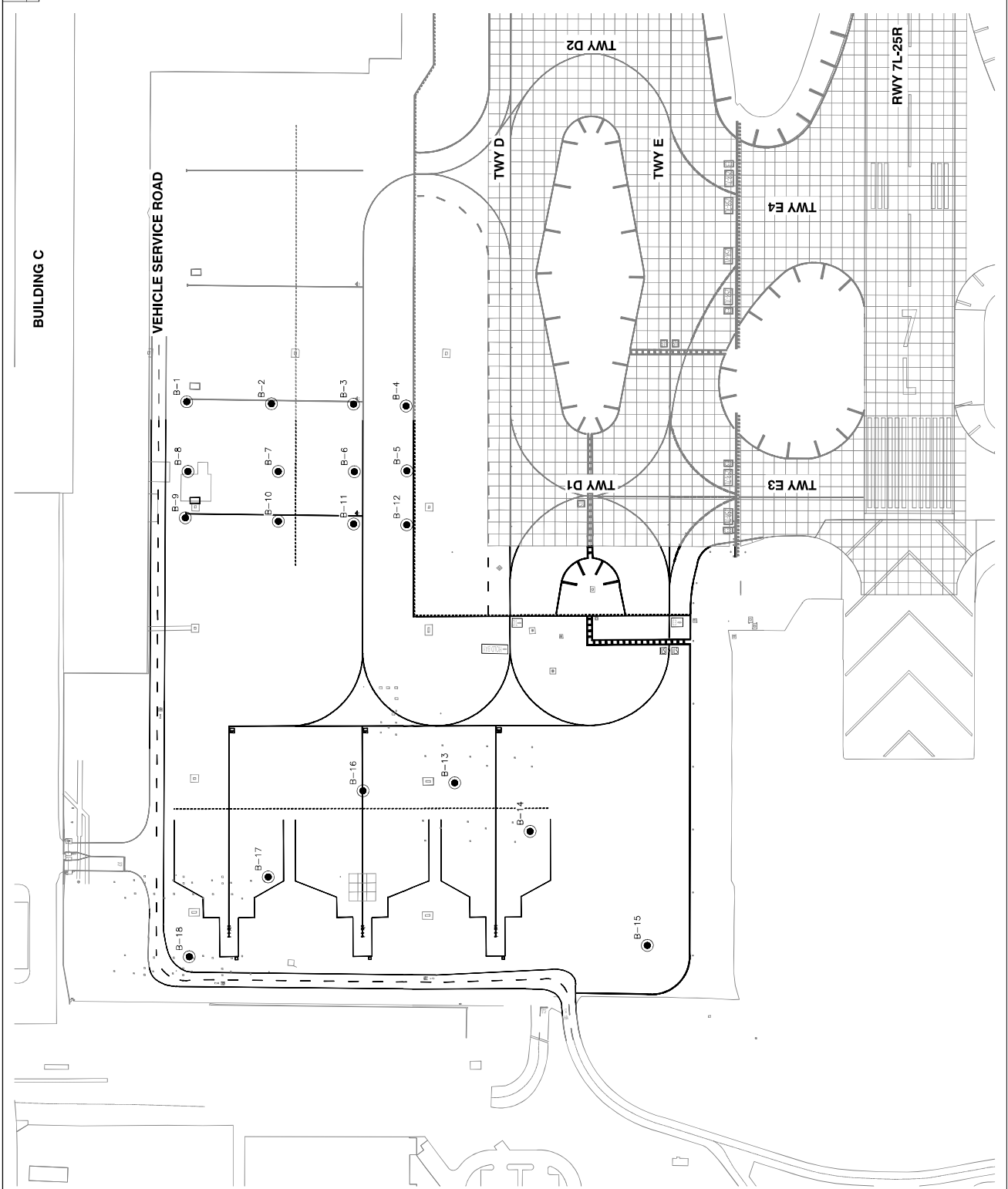


TRAPE
 CONSULTING

PHASE CONSULTANT



GENERAL NOTES
 1. BORING MAP PROVIDED FOR REFERENCE ONLY



GENERAL NOTES

1. BORING HOLE DATA PROVIDED FOR REFERENCE ONLY

BORING NO. 3		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 8.5 in.	0-10	GM
ELEVATION: Not Determined	Poorly Graded GRAVEL with silt and sand; light brown, moist	10-15	GM
	medium dense	15-20	GM
	Silty SAND with gravel; light brown, loose, moist	20-25	SM
	medium dense	25-30	SM
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-6 BORING LOG			

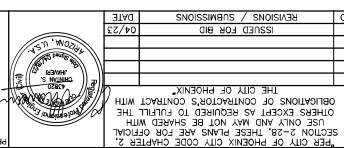
BORING NO. 2		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 7.5 in.	0-10	GM
ELEVATION: Not Determined	Poorly Graded GRAVEL with silt and sand; light brown, moist	10-15	GM
	medium dense	15-20	GM
	Silty SAND, light brown, medium dense, moist	20-25	SM
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-5 BORING LOG			

BORING NO. 1		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 8.1 in.	0-10	GM
ELEVATION: Not Determined	Poorly Graded GRAVEL with silt and sand; light brown gray, moist	10-15	GM
	dense	15-20	GM
	Silty SAND; light brown gray, medium dense, moist	20-25	SM
	Auger refusal at 7.5 Feet on Cobbles		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-4 BORING LOG			

BORING NO. 6		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 9.0 in.	0-10	GM
ELEVATION: Not Determined	Well Graded SAND with silt and sand; light brown, moist	10-15	GM
	medium dense	15-20	GM
	Silty SAND; light brown, medium dense, moist	20-25	SM
	Auger refusal at 6.0 Feet on Cobbles		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-9 BORING LOG			

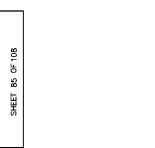
BORING NO. 5		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 9.0 in.	0-10	GM
ELEVATION: Not Determined	Well Graded GRAVEL with silt and sand; light brown, moist	10-15	GM
	very dense	15-20	GM
	Silty SAND; light brown, medium dense, moist	20-25	SM
	Auger refusal at 6.0 Feet on Cobbles		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-8 BORING LOG			

BORING NO. 4		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-12-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
DRILLING TYPE: 7" A.S.A.	Asphalt concrete 8.5 in.	0-10	GM
ELEVATION: Not Determined	Silty SAND with gravel; light brown, moist	10-15	GM
	dense	15-20	GM
	Silty Clayey SAND; light brown, loose, moist	20-25	SM
	increase sand content, very dense	25-30	SM
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered Western Technologies Inc. (In Ring) Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA227			
PLATE A-7 BORING LOG			



PHOENIX SKY HARBOR INTERNATIONAL AIRPORT RECONSTRUCTION WEST AIR CARGO

BORE LOG
 Designed by: C. SHAW
 Drawn by: A. SANTILLI
 Checked by: C. JAHVENI
 Date: 04/18/2023
 Dwg scale: AS SHOWN
 AP NO. 0029-106-2023
 2-04-0029-107-2023



GENERAL NOTES

- BORING HOLE DATA PROVIDED FOR REFERENCE ONLY

BORING NO. 9		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 7.5 ft.	0	GM
ELEVATION: Not Determined	Poorly graded GRAVEL with silt and sand; light brown, damp	0.5	GM
	medium dense	0.5	GM
	Silty SAND; light brown, medium dense, damp	5	SM
	Sandy lean CLAY; brown, moist	10	CL
	Silty SAND; brown-gray, moist	15	SM
	loose	15	SM
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-12 BORING LOG			

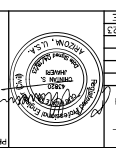
BORING NO. 8		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 9 ft.	0	GM
ELEVATION: Not Determined	Poorly graded GRAVEL with silt and sand; light brown, moist	0	GM
	dense	0	GM
	Clayey SAND with gravel; light brown, loose, moist	5	SC
	Sandy lean CLAY; brown, moist	10	CL
	very stiff	10	CL
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-11 BORING LOG			

BORING NO. 7		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 2 ft.	0	GM
ELEVATION: Not Determined	Poorly graded GRAVEL with silt and sand; light brown, moist	0	GM
	medium dense	0	GM
	hard drilling	0	GM
	very dense	0	GM
	Auger refusal at 4.5 Feet on Cobbles	4.5	
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-10 BORING LOG			

BORING NO. 12		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 8.3 ft.	0	GM
ELEVATION: Not Determined	Well Graded GRAVEL with silt and sand; light brown, moist	0	GM
	dense	0	GM
	Silty SAND with gravel; light brown, very dense, moist	5	SM
	Auger refusal at 6.0 Feet on Cobbles	6.0	
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-15 BORING LOG			

BORING NO. 11		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 9.4 ft.	0	GM
ELEVATION: Not Determined	Well Graded GRAVEL with silt and sand; light brown, moist	0	GM
	dense	0	GM
	Silty SAND; light brown, medium dense, moist	5	SM
	Auger refusal at 6.0 Feet on Cobbles	6.0	
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-14 BORING LOG			

BORING NO. 10		EQUIPMENT TYPE: CMR-75 FIELD ENGINEER: A. Gonzalez	
DATE DRILLED: 11-13-21	SOIL DESCRIPTION	DEPTH (FEET)	USCS
LOCATION: See Location Diagram	Asphalt concrete 8 ft.	0	GM
ELEVATION: Not Determined	Well Graded GRAVEL with silt and sand; light brown, moist	0	GM
	dense	0	GM
	Silty Clayey SAND; light brown, medium dense, moist	5	SM
	Boring terminated at 11.0 Feet		
NOTES: Groundwater Not Encountered			
Western Technologies Inc. (in ring) Geotechnical Engineering Materials Since 1955			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212A227			
PLATE A-13 BORING LOG			



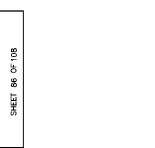
NO.	REVISIONS / SUBMISSIONS	DATE
04/23		

WEST AIR CARGO RECONSTRUCTION PHOENIX SKY HARBOR INTERNATIONAL AIRPORT

Designed by: C. SHAW
Checked by: C. JAHVEN
Date: 04/18/2023
Dwg scale: AS SHOWN

BORE LOG

PROJECT NUMBER: GT-602
SHEET OVERVIEW TITLE



GENERAL NOTES

1. BORING HOLE DATA PROVIDED FOR REFERENCE ONLY

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-18 BORING LOG			

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-17 BORING LOG			

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-16 BORING LOG			

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-21 BORING LOG			

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-20 BORING LOG			

DATE DRILLED: 11-12-21		EQUIPMENT TYPE: CMR-75	
OPERATOR: Not Determined		FIELD ENGINEER: A. Gonzalez	
ELEVATION: Not Determined		SOIL DESCRIPTION	
DEPTH (FEET)	USCS	GRAPHIC	
10			
5			
0			
Boring Terminated at 6.0 Feet			
NOTES: Groundwater Not Encountered			
N- STANDARD SAMPLER R- RING SAMPLER B- BUCKET SAMPLE G- GRAB SAMPLE M- OPEN SAMPLER - (no rings)			
Western Technologies Inc. Geotechnical Engineering 1000 N. 10th Street Phoenix, AZ 85005 Since 1985			
PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT LOCATION: PHOENIX, ARIZONA PROJECT NO.: 212JA27			
PLATE A-19 BORING LOG			



NO.	REVISIONS / SUBMISSIONS	DATE
04/23		

FOR CITY OF PHOENIX CITY CODE CHAPTER 22, 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.

PHOENIX SKY HARBOR INTERNATIONAL AIRPORT RECONSTRUCTION

City of Phoenix, Aviation Department
 Phoenix Sky Harbor International Airport
 West Air Cargo
 RECONSTRUCTION
 AV06000026 FAA

Designed by: C. SHAH
 Drawn by: A. SANTILLI
 Checked by: C. JHAVRI
 Date: 04/18/2023
 Dwg scale: AS SHOWN
 Job No.: 04-0029-106-2023

BORE LOG

SHEET OVERVIEW TITLE

PROJECT NUMBER: **GT-603**
 SHEET 87 OF 108



Western Technologies Inc.
 Geotechnical Engineering
 1000 N. 10th Street
 Phoenix, AZ 85005
 Since 1985

PROJECT: PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
 LOCATION: PHOENIX, ARIZONA
 PROJECT NO.: 212JA27

PLATE
 A-18
 BORING LOG

PLATE
 A-21
 BORING LOG

PLATE
 A-17
 BORING LOG

PLATE
 A-20
 BORING LOG

PLATE
 A-16
 BORING LOG

PLATE
 A-19
 BORING LOG

PLATE
 A-18
 BORING LOG

PLATE
 A-17
 BORING LOG

PLATE
 A-20
 BORING LOG

PLATE
 A-16
 BORING LOG

PLATE
 A-19
 BORING LOG

PLATE
 A-18
 BORING LOG

PLATE
 A-17
 BORING LOG

ELECTRICAL ABBREVIATIONS:

2/C	TWO CONDUCTORS
ATCT	AIR TRAFFIC CONTROL TOWER
BCC	BARE COPPER GROUND
CE	CONCRETE ENCASED
CKT	CIRCUIT
COMM	COMMUNICATIONS
DIA	DIAMETER
FAA	FEDERAL AVIATION ADMINISTRATION
FMC	FLEXIBLE METAL CONDUIT
GRS	GALVANIZED RIGID STEEL
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
NPI	NON PAY ITEM
OFA	OBJECT FREE AREA
PVC	POLY-VINYL CHLORIDE
RSA	RUNWAY SAFETY AREA
SE	SLURRY ENCASED
SES	SERVICE ENTRANCE SECTION
TSA	TAXIWAY SAFETY AREA
TYP	TYPICAL

ELECTRICAL LEGEND:
(UNLESS OTHERWISE NOTED ON PLANS)

---	EXISTING ELECTRICAL CONDUIT AND CONDUCTOR
---	EXISTING SPADE CONDUIT DUCTBANKS EXTENDED FIVE (5) FEET BEYOND EDGE OF NEW PAVEMENT AND CAPPED
⊙	EXISTING TAXIWAY EDGE LIGHT
□	EXISTING HANDHOLE
■	NEW HANDHOLE
⊙	NEW L-861T(LED) ELEVATED TAXIWAY EDGE LIGHT ON NEW L-867 BASE
	NEW APRON LIGHT
○	NEW JUNCTION CAN
□	NEW PULLBOX

AIRFIELD CIRCUITS:

◇	(E) TE-WE
◇	(N) TE-WE
◇	(E) NAV
◇	RT1
◇	ASR
◇	F.O
◇	(E) FAA COMM
◇	APRON LIGHTS

ADVISORY CIRCULARS FOR AIRPORT PROJECTS (USE LATEST VERSION):

150/5340-30	DESIGN AND INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS
150/5345-7	SPECIFICATION FOR L-824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS
150/5345-28	SPECIFICATION FOR L-823 PLUG AND RECEPTACLE CABLE CONNECTORS
150/5345-42	SPECIFICATION FOR AIRPORT LIGHT BASES, TRANSFORMER HOUSINGS, JUNCTION BOXES, AND ACCESSORIES
150/5345-46	SPECIFICATION FOR RUNWAY AND TAXIWAY LIGHT FIXTURES
150/5345-47	SPECIFICATION FOR SERIES TO SERIES ISOLATION TRANSFORMERS FOR AIRPORT LIGHTING SYSTEMS
150/5345-53	AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM
150/5370-2	OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION
150/5370-10	STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS
ADDENDUM	AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM (PUBLISHED MONTHLY AND LISTING APPROVED SUPPLIERS)

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E-101	ELECTRICAL LEGEND
E-102	ELECTRICAL NOTES
ED-101 - ED-104	ELECTRICAL DEMOLITION PLAN
EA-101 - EA-104	ELECTRICAL INSTALLATION PLAN
EA-401	PHOTOMETRICS
EA-501	ELECTRICAL DUCTBANK DETAILS
EA-502	GROUNDING DETAILS
EA-503	4'x4'x4' HANDHOLE DETAIL
EA-504	LIGHTING CONTROL CABINET DETAILS
EA-505	APRON LIGHT DETAILS
EA-506	JUNCTION CAN DETAIL
EA-507	TAXIWAY EDGE LIGHT DETAIL
EA-508	PULLBOX DETAIL
EA-601	SINGLE LINE DIAGRAM, PANEL SCHEDULE AND LOAD CALCULATIONS
EA-602	EQUIPMENT DATA TABLES

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PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

DESIGNED BY: JCA
DRAWN BY: JCA
CHECKED BY: CA
DATE: 04/18/23
DWG NO: NTS
REV NO: 0029-107-2023

ELECTRICAL LEGEND

SHEET OVERVIEW TITLE
SHEET NO. OF TOTAL
E-101

ELECTRICAL DEMOLITION GENERAL NOTES

- WITHIN AREAS OF DEMOLITION AND AS OTHERWISE SHOWN, REMOVE IDENTIFIED SIGN BASES, ISOLATION TRANSFORMERS AND OTHER INDICATED ITEMS.
- CABLE REMOVAL**
 - DIRECT BURIAL REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING, AVOID ON ELSEWHERE.
 - IN CONDUIT: REMOVE COMPLETELY BETWEEN NEAREST BASES, HANDHOLES OR MANHOLES.
- AT INDICATED DEVICES TO BE REMOVED OR IN DEMOLITION AREAS INDICATED, REMOVE ALL CONDUCTORS BACK TO NEAREST MANHOLE OR HANDHOLE OUTSIDE DEMOLITION AREA.
- SIGNS AND/OR SIGN BASES, CABLES, CONDUITS, DUCTS, ETC. WHICH ARE NOT SPECIFICALLY INDICATED TO BE REMOVED OR WHICH ARE SHOWN TO REMAIN WITHIN AREAS OF GENERAL DEMOLITION) SHALL REMAIN IN-PLACE AND FUNCTIONAL.
- CONTRACTOR SHALL VERIFY EQUIPMENT AND CABLE DESIGNATIONS AND STATUS PRIOR TO REMOVAL OR DISCONNECTING.
- UNLESS OTHERWISE NOTED, ALL REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE AIRFIELD AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE CITY ORDINANCES. REMOVED LIGHT FIXTURES AND SIGNS NOT DESIGNATED FOR RE-INSTALLATION SHALL BE OFFERED TO AIRPORT FOR RETURN UNLESS OTHERWISE NOTED.
- DRAWINGS MAY NOT DETAIL ALL EXISTING FACILITIES IN AREAS OF DEMOLITION. CONTRACTOR SHALL REVIEW THE SITE AND RECORD DRAWINGS TO VERIFY THE DEMOLITION EFFORT INVOLVED.
- EXISTING SIGNS MUST REMAIN OPERATIONAL DURING CONSTRUCTION. TEMPORARY CONNECTIONS TO EXISTING SIGNS REQUIRED DURING RELOCATION. TEMPORARY MOUNTING OF EXISTING SIGNS REQUIRED WHERE NEW LOCATION CONFLICTS WITH EXISTING LOCATION.
- CONTRACTOR SHALL BE REQUIRED TO HAVE A PRIVATE ON-SITE UTILITY LOCATING COMPANY AND POTHOLE EXISTING UTILITY LINES AS NEEDED.

AIRFIELD LIGHT LOCKOUT/TAGOUT POLICY

- THE PURPOSE OF THIS POLICY IS TO STANDARDIZE THE LOCKOUT/TAGOUT PROCEDURES BETWEEN ELECTRICAL CONTRACTORS, PHOENIX SKY HARBOR AIRPORT ELECTRICIANS, OPERATIONS AND AIR TRAFFIC CONTROL TOWER (ATCT).
- PSHA ELECTRICIANS RESPONDING TO A LOCK-OUT/TAG-OUT REQUEST WILL COORDINATE WITH THE ATCT THROUGH OPERATIONS.
 - AFTER OPERATIONS NOTIFIES ELECTRICIANS OF CLOSURES, THE PSHA ELECTRICIANS WILL TURN OFF THE CLOSED RUNWAYS/TAXIWAYS USING THE AIRFIELD COMPUTER SYSTEM.
 - THE CONTRACTOR WILL SUPPLY AN APPROVED BREAKER-LOOKING DEVICE AND LOCK, THEN LOCK OF THE INTERRUPTER/LOCKING DEVICE CIRCUIT. THESE ITEMS WILL REMAIN IN THE VAULTS IN A LOCK BOX PROVIDED BY PSHA ELECTRICAL SECTION.
 - PSHA ELECTRIC SECTION WILL LOCK THE PANEL DOORS SHUT WITH A HASP AND AN ELECTRICAL SECTION LOCK.
 - THE S-1 CUTOUPS WILL BE PULLED, LOCKED AND PLACED ON THE CORRESPONDING REGULATOR BY THE ELECTRICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR AND PSHA ELECTRICIANS MUST FILL OUT LOCK-OUT FORMS BEFORE LEAVING THE VAULT.
 - UPON COMPLETION OF THE LOCKOUT, THE CONTRACTOR WILL REMOVE ALL LOCKS AND INSTALL THE S-1 CUTOUPS. ALL CIRCUITS MUST BE VERIFIED OPERATIONAL IN THE MANUAL MODE ON THE REGULATOR. OPERATIONS WILL PERFORM A COMPLETE CHECK OF THE LIGHTS IN THE FIELD, TO VERIFY ACTUAL OPERATION.
 - WHEN THAT HAS BEEN COMPLETED, PSHA ELECTRICIANS WILL NOTIFY OPERATIONS WHEN LOCK-IN IS COMPLETE AND REGULATORS ARE IN REMOTE CONTROL. OPERATIONS WILL NOTIFY THE ATCT THAT HAVE CONTROL OF THE AIRFIELD LIGHTING.
 - COMPLETE LOCK-OUT/LOCK-IN FORMS.

THIS PROCEDURAL CHECKLIST MUST BE FOLLOWED TO THE LETTER

ELECTRICAL CONSTRUCTION PHASING NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE ENGINEER AS NECESSARY.
- CONTRACTOR SHALL GIVE 72 HOURS NOTICE PRIOR TO WORKING ON OR AROUND ANY DUCTBANKS, HANDHOLES, ETC.
- CONTRACTOR SHALL MAINTAIN OR HAVE SUFFICIENT MATERIAL/ EQUIPMENT REQUIRED TO PROVIDE TEMPORARY LIGHTING AND CIRCUIT EXTENSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, FIXTURES, TRANSFORMERS, BASES, CONDUIT, L-824 CABLE & L-823 SPLICE KITS. THESE ITEMS WILL NOT BE AVAILABLE FROM THE PSHA MAINTENANCE SHOP.
- THE CONTRACTOR SHALL MAINTAIN QUALIFIED PERSONNEL WITH THE APPROPRIATE EQUIPMENT, FOR THE INSTALLATION AND SPACING OF AIRFIELD LIGHTING. SUCH PERSONNEL SHALL BE CAPABLE OF 60 MINUTE RESPONSE TIME IF THEY ARE NOT ALREADY PRESENT ON THE AIRFIELD.
- TURN OFF AND COVER EXISTING SIGNAGE THAT MAY POTENTIALLY MISDIRECT AIRCRAFT MOVEMENT INTO CLOSED AREAS BARRICADED FOR CONSTRUCTION. SIGNAGE REQUIRING PARTIAL COVERAGE WITH TAXIWAY LOCATION PANELS REMAINING VISIBLE SHALL REMAIN ON WITH ONLY DIRECTIONAL PORTIONS COVERED WITH SIGNAGE. WORK SHALL BE COMPLETED WITHIN 24 HOURS. SIGNAGE SHALL BE SECURELY HELD IN PLACE BY RATCHETING LASHING STRAPS, NO TAPE OR ADHESIVES WILL BE PERMITTED. SEE PHASING PLANS FOR PLACEMENT OF SIGN COVERS.
- COVER EXISTING ELEVATED EDGE LIGHT FIXTURES IN CLOSED AREA BARRICADED FOR CONSTRUCTION WITH 4" PVC PIPE. COVER SHALL EXTEND 2" MIN. ABOVE TOP OF FIXTURE.
- PROVIDE ANY TEMPORARY AIRFIELD CIRCUIT JUMPERS REQUIRED TO MAINTAIN OPERATION OF ALL CIRCUITS THROUGHOUT CONSTRUCTION. ALL JUMPERS SHALL BE SECURED TO TOP OF CONDUIT. ALL JUMPERS SHALL BE SLEEVED IN 2" CONDUIT, SANDBAGGED OR SECURED TO LOW-LEVEL BARRICADES. TEMPORARY CIRCUIT JUMPERS MAY BE ROUTED THROUGH NEW TAXIWAY CROSSINGS OR EXISTING SPARE CONDUITS AS REQUIRED AND SHALL BE COMPLETELY REMOVED WHEN NO LONGER REQUIRED FOR OPERATION. TEMPORARY JUMPER PLACEMENT SHALL NOT AFFECT AIRCRAFT MOVEMENT OR AIRPORT OPERATIONS.
- UNCOVER SIGNS AND EDGE LIGHT FIXTURES. REMOVE TEMPORARY JUMPERS, AND VERIFY OPERATION AT THE END OF PROJECT.

ELECTRICAL GENERAL NOTES

- GROUND RODS AND COUNTERPOISE WIRE ARE CONSIDERED INCIDENTAL TO FIXTURE AND CONDUIT INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND CONSTRUCTION WITH CIVIL CONTRACTOR TO REDUCE CONFLICTS THAT AFFECT CONSTRUCTION PHASING AND SCHEDULING.
- CONTRACTOR SHALL FIELD VERIFY ALL FIXTURE STATION AND OFFSETS AND CONFIRM ALL LOCATIONS ARE WITHIN SPECIFICATION TOLERANCES.



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AV0600026 FAA

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Checked by: CA
Date: 04/18/23
Dwg scale: NTS

AP No: 23-04-0029-106-2023
3-1-1-106-2023
SHEET NUMBER:
E-102
SHEET 89 OF 108

ELECTRICAL NOTES
SHEET OVERVIEW TITLE

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APR. NO. 2-04-0029-107-2023
 SHEET OVERVIEW TITLE: ELECTRICAL DEMOLITION PLAN

NO.	DESCRIPTION
1	EXISTING CONDUIT AND CONDUCTORS TO REMAIN - PROTECT IN PLACE

KEYED NOTES

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.

PHOENIX SKY HARBOR RECONSTRUCTION WEST AIR CARGO
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DEMOLITION NOTES

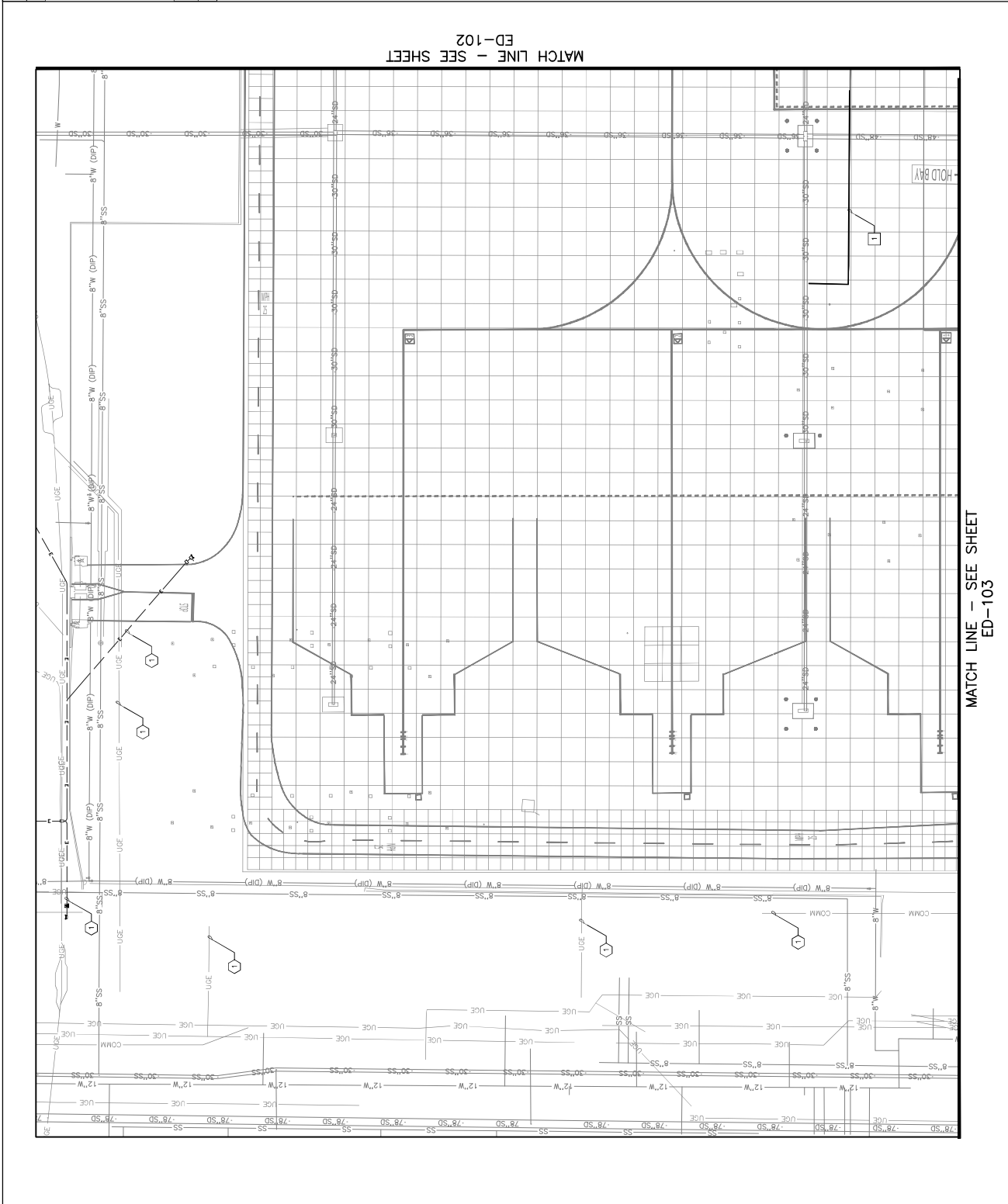
1 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTORS

QTY 214 LF

KEY MAP
 NTS

SCALE: 1"=40'

0 40' 80'



MATCH LINE - SEE SHEET ED-102

MATCH LINE - SEE SHEET ED-103

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NO.	REVISIONS / SUBMISSIONS	DATE
		04/23

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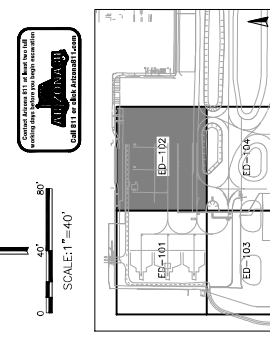
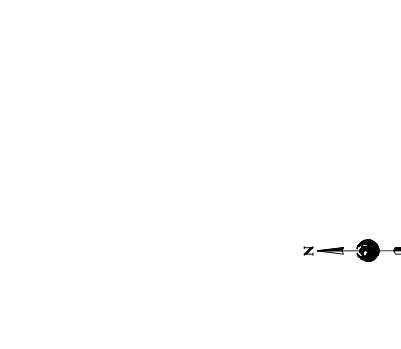
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 2-04-0029-107-2023

SHEET OVERVIEW TITLE
ELECTRICAL DEMOLITION PLAN

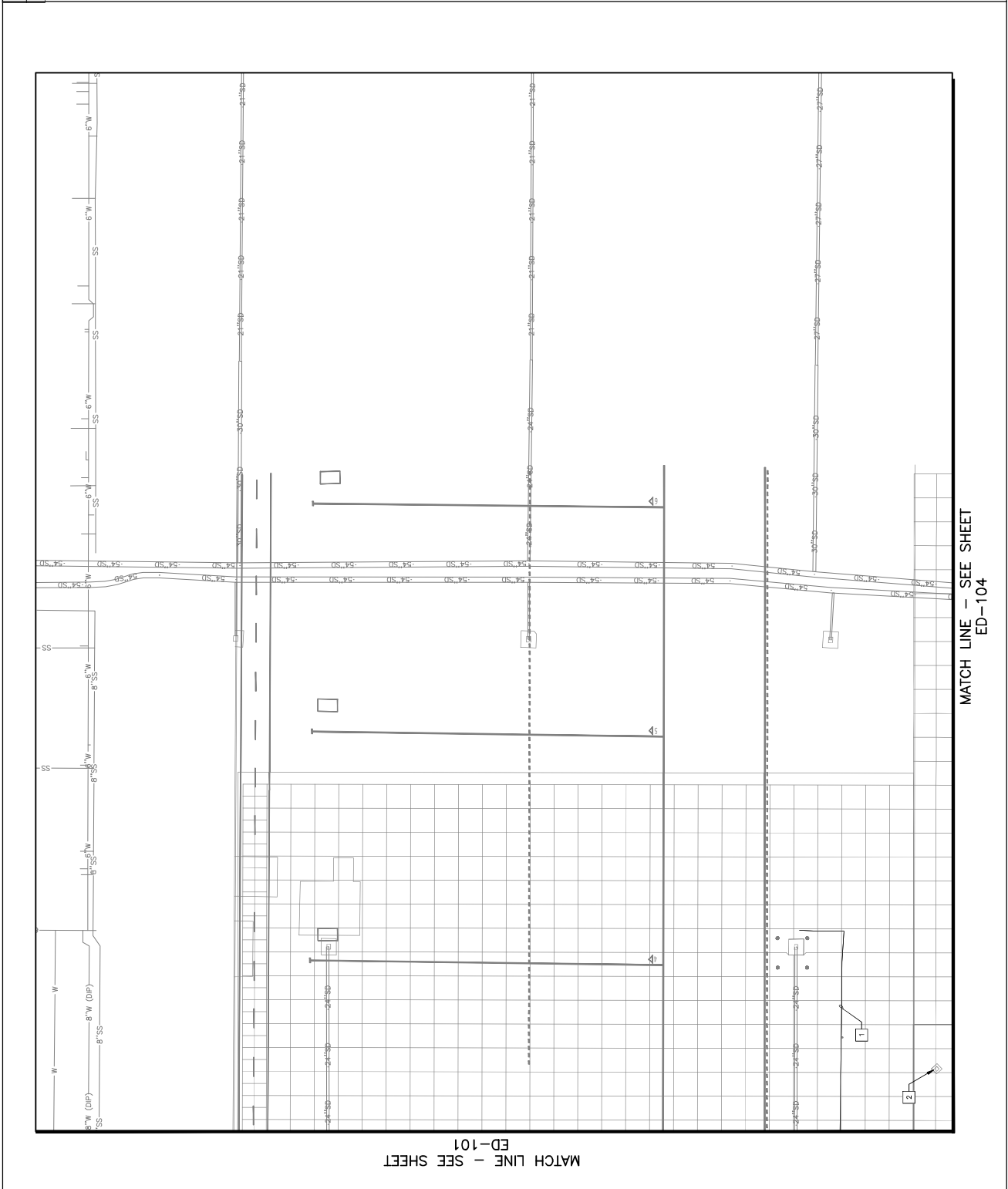
SHEET NUMBER
ED-102
 SHEET 91 OF 98

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
1	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUITORS	197 LF
2	EXISTING HANDHOLE TO BE REMOVED	1 EA



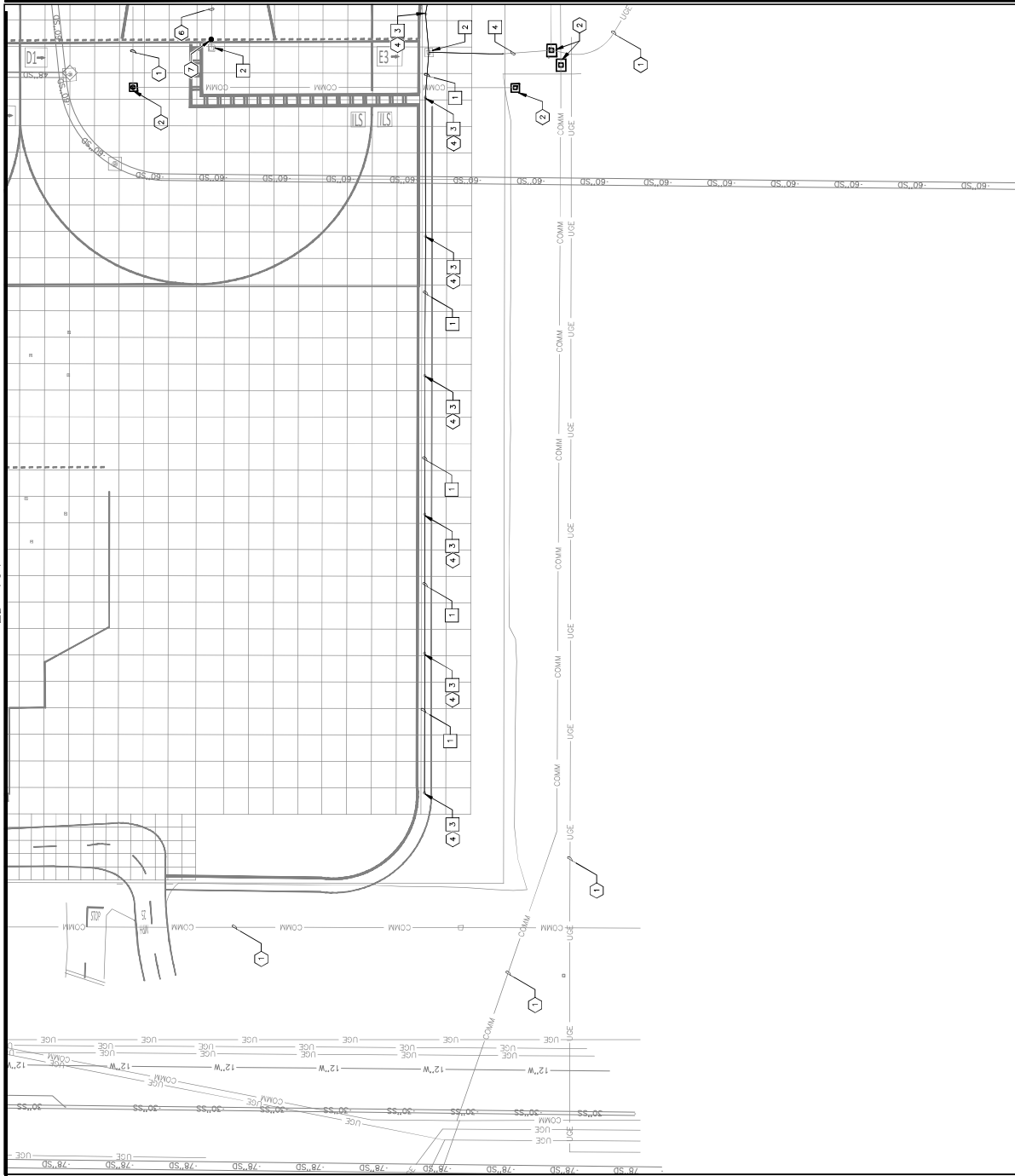
MATCH LINE - SEE SHEET
 ED-104



MATCH LINE - SEE SHEET
 ED-101

MATCH LINE - SEE SHEET
 ED-104

MATCH LINE - SEE SHEET ED-101



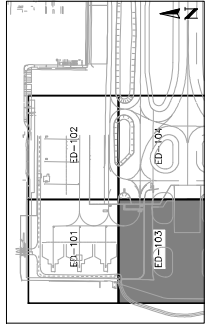
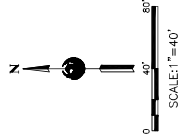
MATCH LINE - SEE SHEET ED-104

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
1	EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTORS	596 LF
2	EXISTING HANDHOLE TO BE REMOVED	2 EA
3	REMOVE AND SALVAGE EXISTING TOWERWAY EDGE LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN	7 EA
4	REMOVE EXISTING TOWERWAY LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN TO ADJACENT LIGHT FIXTURE OR HANDHOLE. CONDUIT TO REMAIN.	92 LF

KEYED NOTES

- ① EXISTING CONDUIT AND CONDUCTORS TO REMAIN - PROTECT IN PLACE
- ② EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE
- ③ ALL SALVAGED TW EXCHANGES TO BE RETURNED TO THE PHX ELECTRICAL SECTION
- ④ EXISTING DUCTBANK - PROTECT IN PLACE
- ⑤ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE



KEY MAP
NTS

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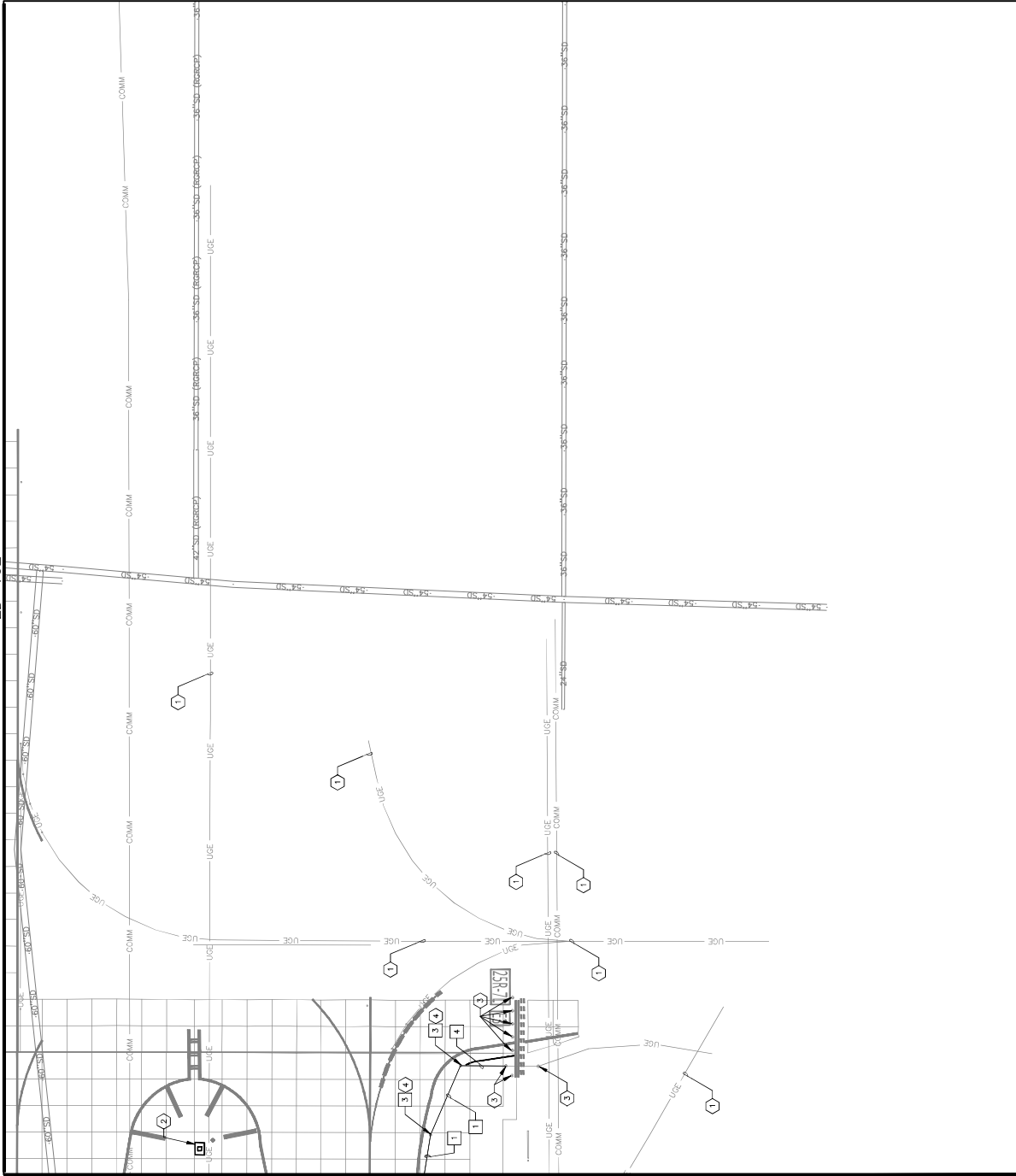
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PHOENIX SKY HARBOR
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WEST AIR CARGO
AV06000026 FAA

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SHEET OVERVIEW TITLE
ELECTRICAL DEMOLITION PLAN
SHEET NUMBER
ED-103
SHEET 92 OF 108

MATCH LINE - SEE SHEET ED-102



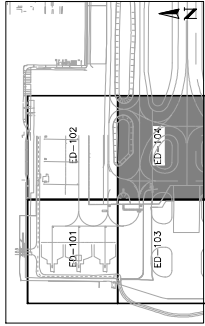
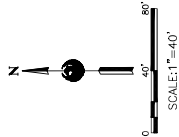
MATCH LINE - SEE SHEET ED-103

DEMOLITION NOTES

NO.	DESCRIPTION	QTY
1	EXCAVATE AND REMOVE EXISTING CONDUIT AND HANDHOLE	118 LF
2	REMOVE AND SALVAGE EXISTING TAYWAY EDGE LIGHT AND ISOLATION TRANSFORMER, DEMO BASE CAN	2 EA
4	REMOVE EXISTING CONDUCTORS BACK TO NEXT ADJACENT LIGHT FIXTURE OR HANDHOLE. CONDUIT TO REMAIN.	35 LF

KEYED NOTES

- | NO. | DESCRIPTION |
|-----|----------------------------------------------------------------------------|
| 1 | EXISTING CONDUIT AND CONDUCTORS TO REMAIN - PROTECT IN PLACE |
| 2 | EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE |
| 3 | EXISTING ELEVATED OR IMPAVEMENT LIGHT FIXTURE TO REMAIN - PROTECT IN PLACE |
| 4 | ALL SALVAGED TW FIXTURES TO BE RETURNED TO THE PHX ELECTRICAL SECTION |



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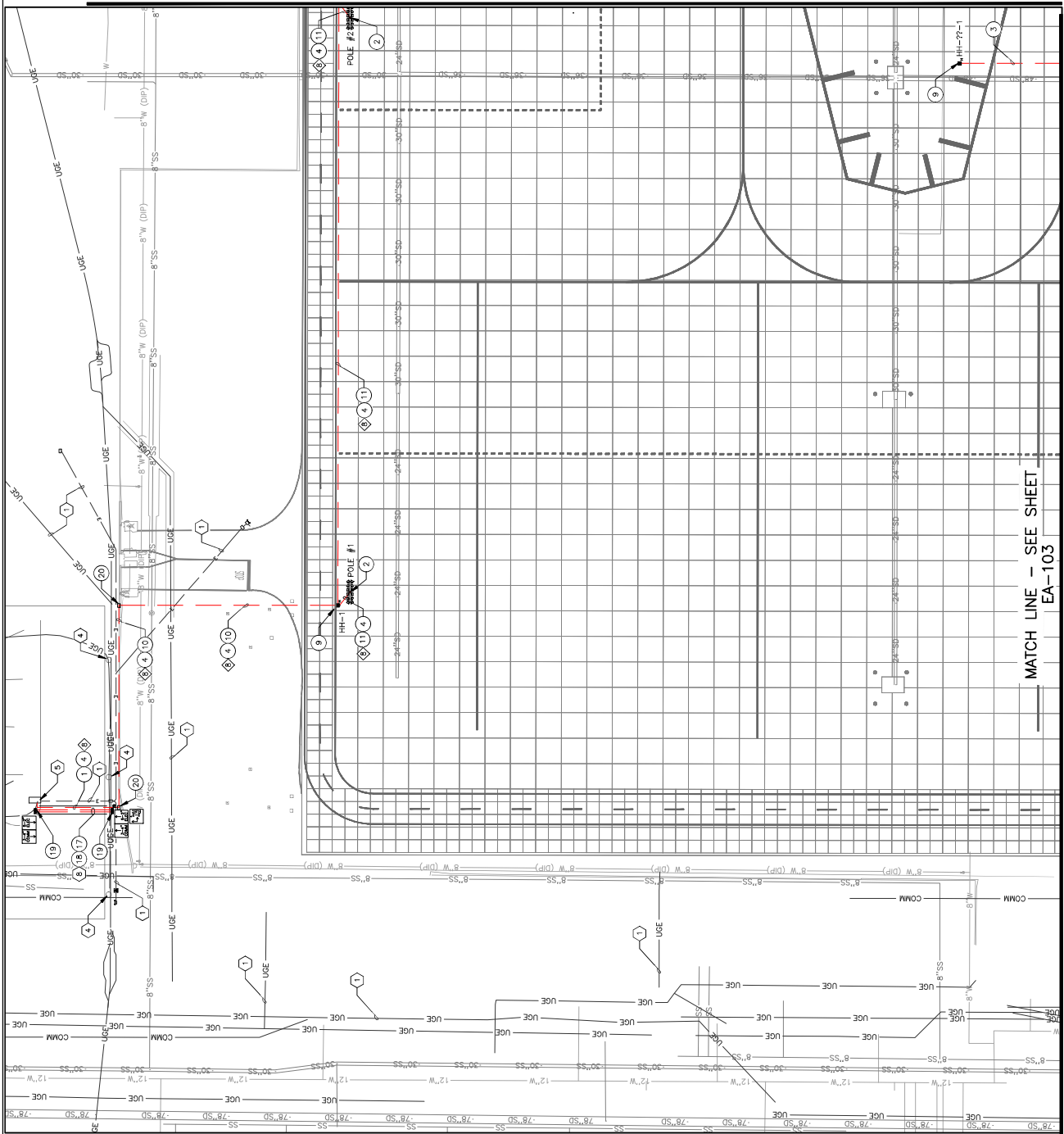
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RECONSTRUCTION WEST AIR CARGO PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
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APR NO:	3-04-0029-106-2023
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DESIGNED BY:	JCA

ELECTRICAL DEMOLITION PLAN

SHEET OVERVIEW TITLE
 SHEET NUMBER:
ED-104
 SHEET 95 OF 105



MATCH LINE - SEE SHEET
EA-102

MATCH LINE - SEE SHEET
EA-103

INSTALLATION NOTES

NO.	DESCRIPTION	QTY
1	4-2" CE RETROFIT IN EXISTING CONCRETE	60 LF
2	NEW 100' APRON LIGHTING POLE WITH 12-1200W CONSTRUCTION LIGHT ON CONCRETE FOUNDATION	2 EA
3	8-2" CE	75 LF
4	4" INSURAL #4 END FEEDER SET INSTALLED IN 2" CONDUIT TO EACH POLE	2886 LF
5	NEW 4" X 4" X 4" AIRCRAFT RATED HANDHOLE	2 EA
6	4-2" CE	423 LF
7	2-2" CE	455 LF
8	3-4" CE RETROFIT IN EXISTING CONCRETE (CONDUIT STUB FOR FUTURE COMMUNICATIONS)	60 LF
9	5-2" CE RETROFIT IN EXISTING CONCRETE (CONDUIT STUB FOR FUTURE POWER)	60 LF
10	INSTALL DUCT MARKER IN ACCORDANCE WITH L-110-34.	NPI
11	NEW NO. 5 PULLBOX	2 EA

KEYED NOTES

NO.	DESCRIPTION
1	EXISTING CONDUIT AND CONDUCTORS TO REMAIN - PROTECT IN PLACE
2	EXISTING LIGHTPOLE TO REMAIN
3	EXISTING 400A 480/277V 3% 4 WIRE COMPACTING AREA PANEL LOCATED LANDSIDE OF GATE 101 TO FEED NEW APRON LIGHTS.
4	ENSURE 12" MINIMUM HORIZONTAL SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS IN JOINT TRENCH AS REQUIRED.

CIRCUIT IDENTIFICATION

NO.	DESCRIPTION
1	APRON LIGHTS

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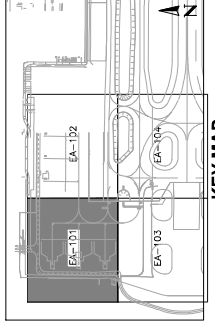
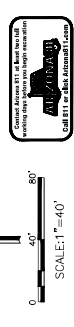
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**PHOENIX SKY HARBOR
RECONSTRUCTION
WEST AIR CARGO
INTERNATIONAL AIRPORT**
CITY OF PHOENIX AVIATION DEPARTMENT
SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND ARE NOT BE SHARED WITH ORATIONS OF CONTRACTORS OF THE CITY OF PHOENIX.

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DATE: 04/18/23
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SHEET OVERVIEW TITLE
ELECTRICAL INSTALLATION
PROJECT NUMBER
EA-101
SHEET 94 OF 108



KEY MAP
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PHOENIX SKY HARBOR

INTERNATIONAL AIRPORT

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ELECTRICAL INSTALLATION

PLAN

 SHEET OVERVIEW TITLE

SHEET NUMBER: EA-102

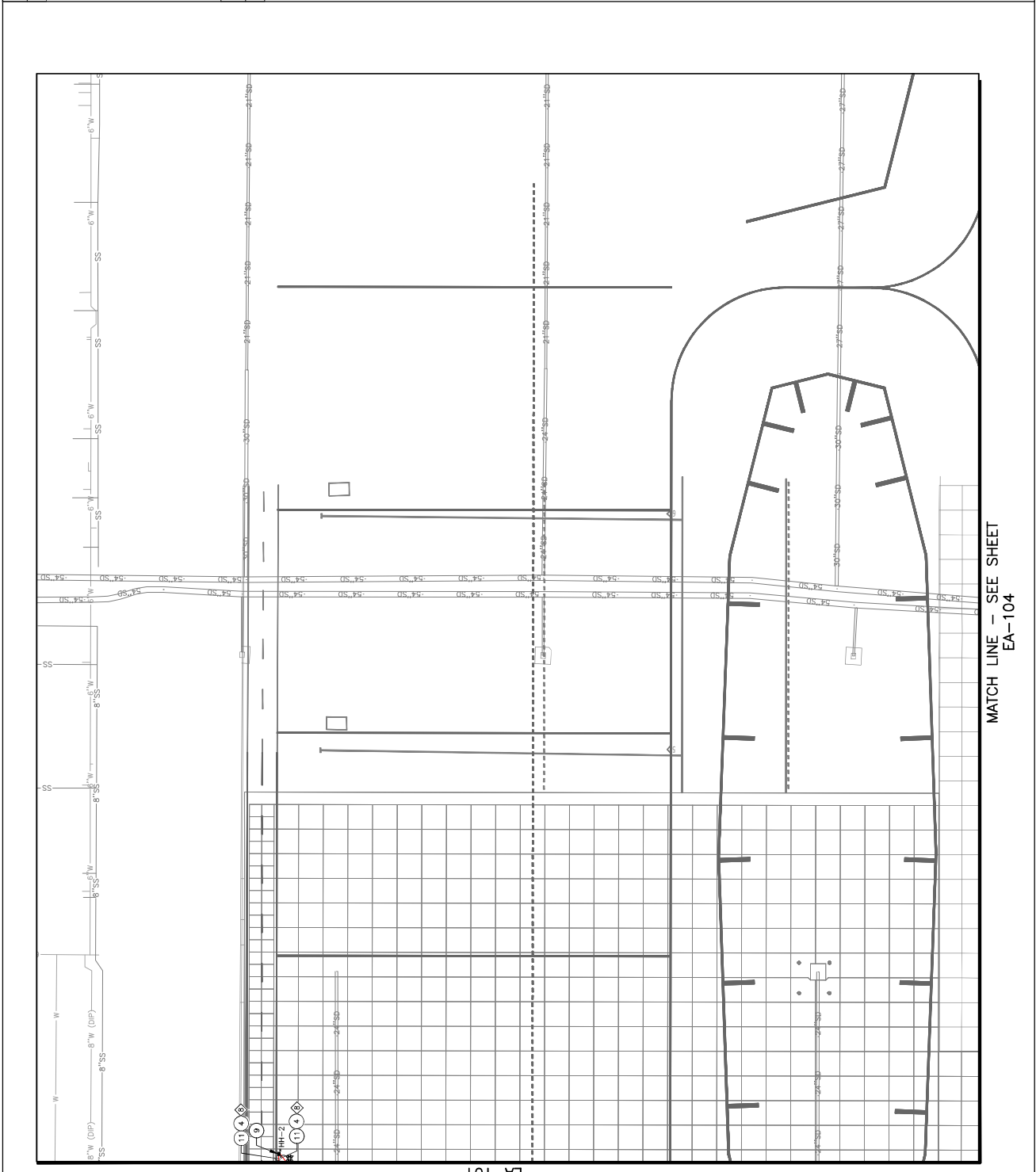
 SHEET OF: 105

INSTALLATION NOTES

NO.	DESCRIPTION	QTY
①	NEW 4" X 4" X 4' AIRCRAFT RATED HANDHOLE.	1 EA
②	2-#4 #4 NEUTRAL #4 COND FEEDER SET INSTALLED IN 2" CONDUIT TO EACH POLE	164 LF
③	2-2" CE	5 LF

CIRCUIT IDENTIFICATION

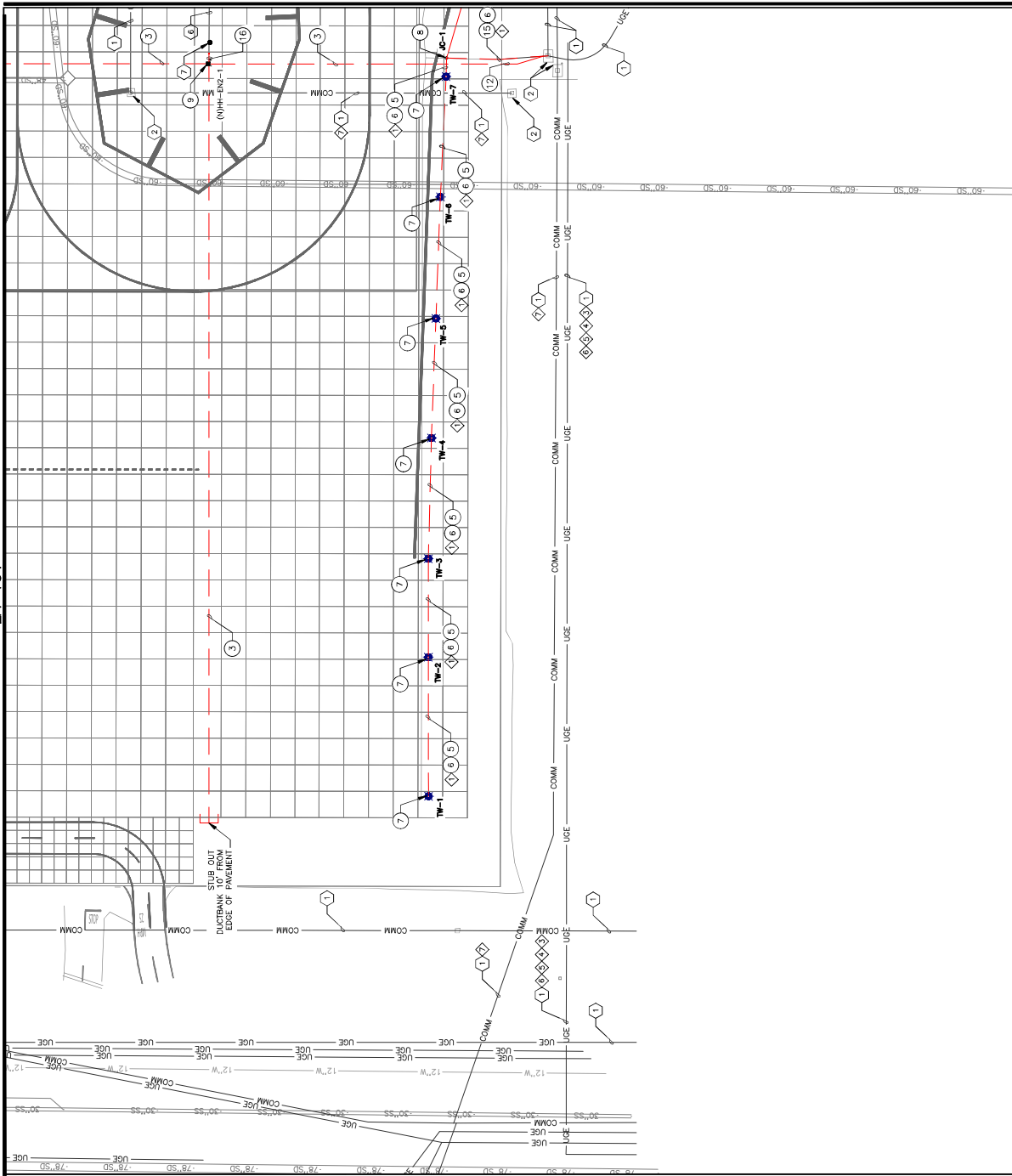
NO.	DESCRIPTION
①	APRON LIGHTS



MATCH LINE - SEE SHEET EA-101

MATCH LINE - SEE SHEET EA-104

MATCH LINE - SEE SHEET
EA-101



INSTALLATION NOTES

NO.	DESCRIPTION	QTY
3	8 - 2" CE	905 LF
4	1 - 2" CE	580 LF
5	2/C #8-8KV L-B24 TYPE "C" AIRFIELD LIGHTING CABLE, #6 GND	740 LF
6	NEW ELEVATED L-861T (L) LED EDGE LIGHT AND POWER ON NEW L-668 BASE WITH CONVERSION RING	7 EA
7	NEW L-867D JUNCTION CAN	1 EA
8	NEW 4" X 4" X 4" AIRCRAFT RATED HANDBOLE	1 EA
9	8 - 2" SE RETROFIT IN EXISTING ASPHALT	85 LF
10	1 - 2" SE RETROFIT IN EXISTING ASPHALT	85 LF
11	12 - 2" CE	10 LF

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KEYED NOTES

NO.	DESCRIPTION
1	EXISTING CONDUIT AND CONDUCTORS
2	EXISTING HANDBOLE
3	EXISTING DUCTBANK
4	APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE

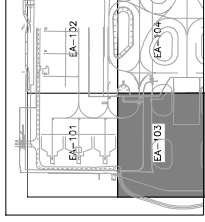
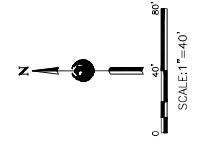
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CIRCUIT IDENTIFICATION

NO.	DESCRIPTION
1	(E) TE-WE
2	(N) TE-WE
3	(E) IMV
4	RT1
5	ASR
6	F.O
7	(E) FAA COMM



ELECTRICAL INSTALLATION PLAN

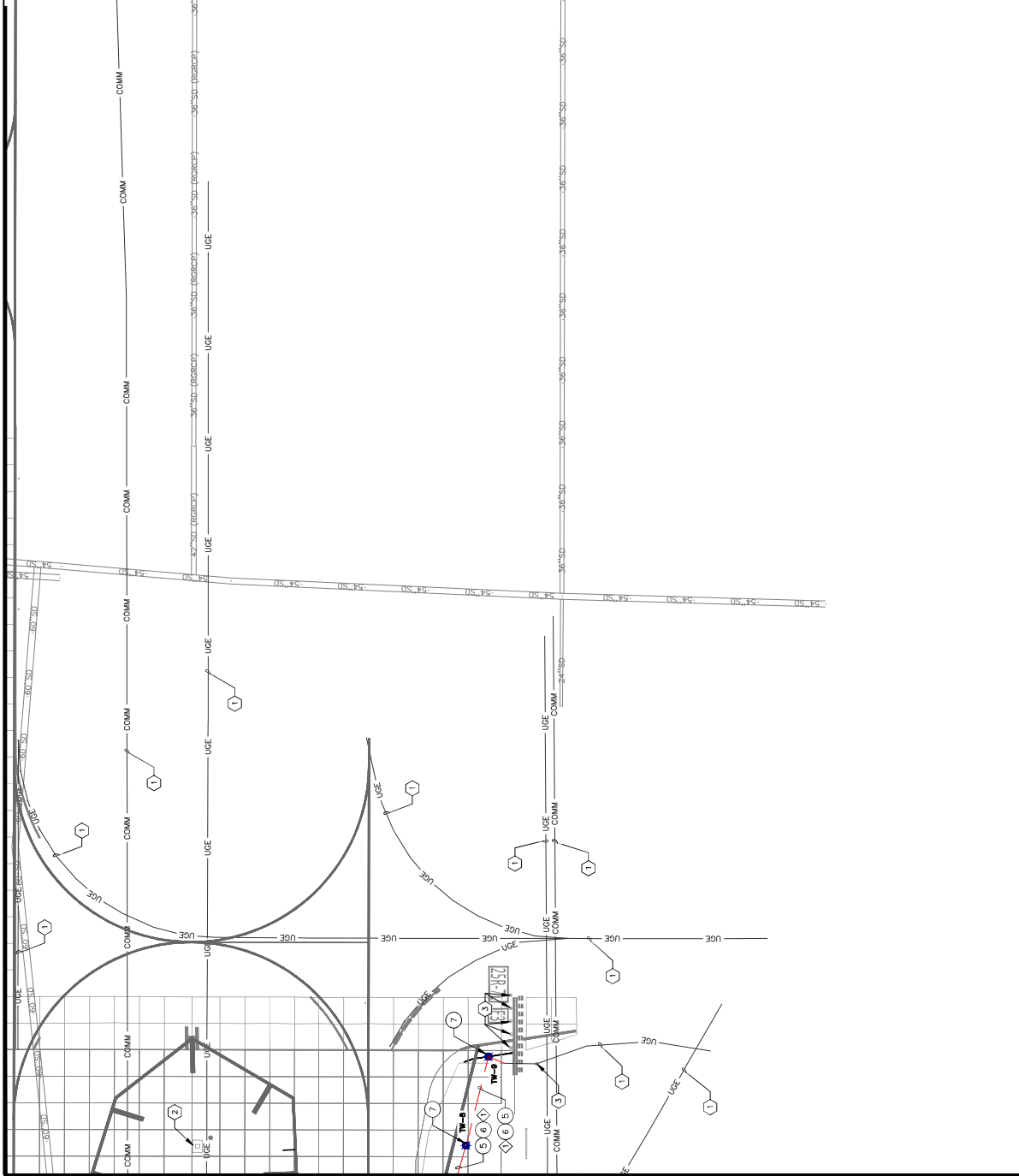
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PROJECT NUMBER: **EA-103**

SHEET 96 OF 108

MATCH LINE - SEE SHEET
EA-102



MATCH LINE - SEE SHEET
EA-103

INSTALLATION NOTES

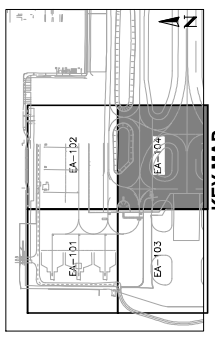
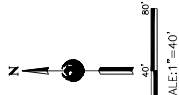
NO.	DESCRIPTION	QTY
5	1 - 2" CE	100 LF
6	2-C #8-5KV L-824 TYPE "C" AIRFIELD LIGHTING	120 LF
7	CABLE, #6 GND NEW ELEVATED L-861T (L) LED EDGE LIGHT AND ISOLATION TRANSFORMER ON NEW L-868 BASE WITH CONVERSION RING	2 EA

KEYED NOTES

- DESCRIPTION
- EXISTING CONDUIT AND CONDUCTORS
 - EXISTING HANDHOLE
 - EXISTING ELEVATED OR IMPAVMENT LIGHT FIXTURE

CIRCUIT IDENTIFICATION

- DESCRIPTION
- | | |
|---|--------------|
| ◇ | (E) TE-WE |
| ◇ | (N) TE-WE |
| ◇ | (E) NAV |
| ◇ | RTI |
| ◇ | ASSR |
| ◇ | F.O |
| ◇ | (E) FAA COMM |



KEY MAP
NTS

**ELECTRICAL INSTALLATION
PLAN**

Designed by: JCA
Drawn by: JCA
Checked by: CA
Date: 04/18/23
Dwg scale: AS SHOWN
APP NO: 2-04-0029-106-2023
2-04-0029-107-2023

PHX DVT BYN
CITY OF PHOENIX AVIATION DEPARTMENT
**RECONSTRUCTION
WEST AIR CARGO
PHOENIX SKY HARBOR**
AV06000026 FAA

NO	ISSUED FOR BID	DATE
		04/23

REVISIONS / SUBMISSIONS



TRAFFIC CONSULTANTS
SUB CONSULTANT

SHEET OVERVIEW TITLE
EA-104

SHEET NUMBER
EA-104

SHEET 97 OF 108

Lighting System

Pole / Fixture Summary	Pole ID	Pole Height	Fixture Qty	Fixture Type	Luminaire Type	Avg Load	Max Load	Circuit
P1-P2	100'	100'	12	TLC-LED-1200	TLC-LED-1200	12.64 KW	14.04 KW	A
			24			26.27 KW	28.08 KW	

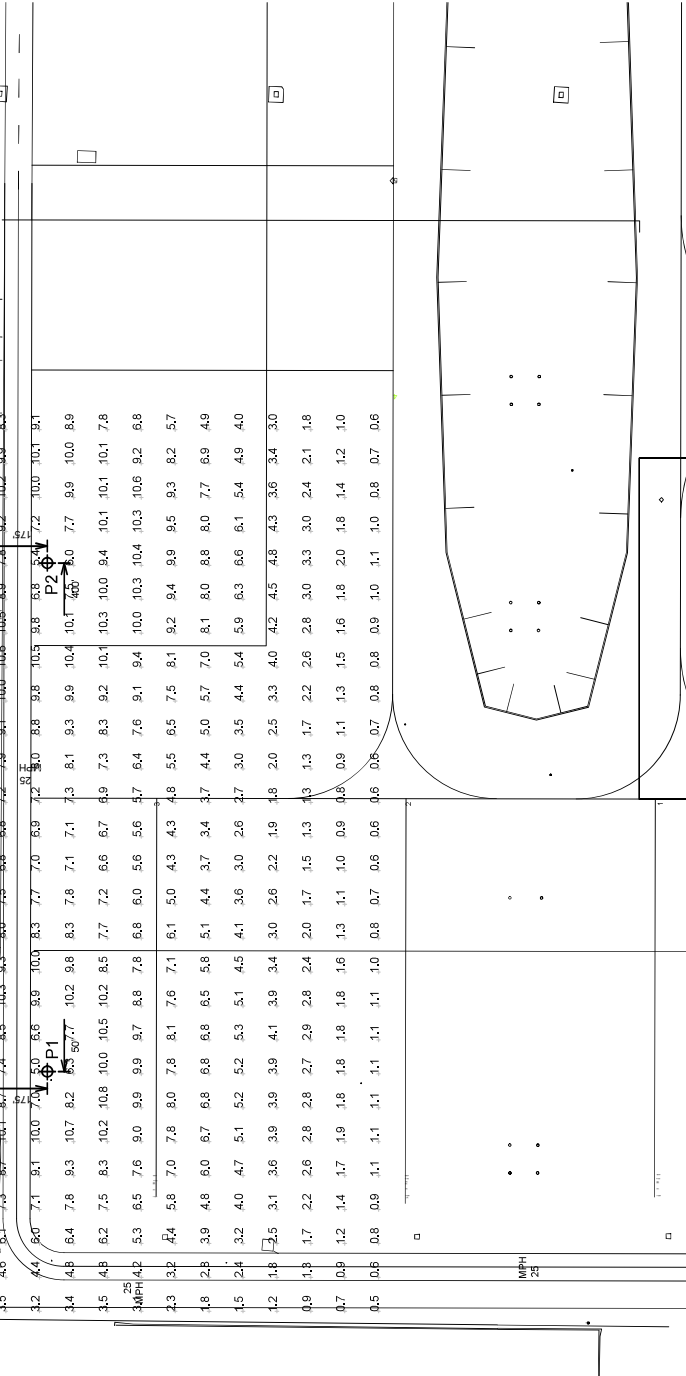
Circuit Summary	Circuit	Description	Avg Load	Max Load	Fixture Qty
A	Cargo Apron - Hz		25.27 KW	28.08 KW	24

Fixture Type Summary	Type	Source	Avg Voltage	Max Voltage	Constant Lumens	Application	Quantity
TLC-LED-1200	LED 5700K-75 CRI	LED 5700K-75 CRI	105.9V	117.0V	115,600	100K	24

Light Level Summary

Grid Name	Calculation Metric	Avg	Min	Max	Avg/Min	Clients	Fixture Qty
Cargo Apron - Hz	Horizontal	9.97	0.47	10.9	11.64	A	24
Cargo Apron - Vt	Max Vert Illuminance (by Light Banks)	9.97	1.14	18.1	8.75	A	24

1.1	1.5	1.8	2.2	2.6	3.2	3.4	3.2	3.3	3.0	2.4	2.1	1.9	1.8	1.9	2.1	2.4	3.0	3.7	4.1	4.3	4.4	4.1	3.3	2.7	2.4	
1.5	2.1	2.7	3.0	3.5	4.1	4.4	4.4	4.2	3.8	3.3	3.0	2.8	2.5	2.7	3.1	3.7	4.2	4.9	5.7	6.0	6.1	5.6	4.6	4.0	3.4	
1.9	2.7	3.4	4.1	4.5	5.2	5.6	5.8	6.0	6.5	6.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2.3	3.1	4.2	5.0	5.8	6.3	6.9	7.0	6.7	6.1	5.6	5.0	4.5	4.2	4.4	5.0	6.0	7.4	8.2	9.0	9.6	9.7	8.8	8.3	7.2	5.2	
2.9	3.7	4.8	6.0	6.9	7.3	8.1	8.4	8.3	7.5	7.2	6.7	5.9	5.3	5.4	5.7	6.2	7.2	8.6	9.6	9.9	10.7	10.8	10.2	9.7	8.5	5.9
3.4	4.4	5.6	6.7	7.6	8.1	8.8	8.9	8.9	8.3	8.1	7.3	6.7	6.3	6.5	6.8	7.3	8.5	9.2	10.1	10.8	10.9	10.9	10.6	9.3	7.0	
3.5	4.6	5.7	7.0	8.1	8.7	9.4	9.4	9.4	8.5	8.3	7.4	6.8	6.6	6.8	7.2	7.9	9.4	10.0	10.6	10.6	10.6	10.2	9.6	8.3		
4.2	4.4	6.0	7.1	8.1	10.0	10.7	10.7	10.7	10.0	9.8	8.3	7.7	7.0	6.9	7.2	8.0	9.8	10.5	9.8	9.8	9.8	9.2	7.2	10.0	10.1	9.1
3.4	4.6	6.4	7.8	9.3	10.7	8.2	8.5	8.7	10.2	9.8	8.3	7.8	7.1	7.1	7.3	8.1	9.3	9.9	10.4	10.1	10.1	10.1	10.1	9.9	10.0	8.9
3.5	4.8	6.2	7.5	8.3	10.2	10.8	10.0	10.5	10.2	8.5	7.7	7.2	6.6	6.7	6.9	7.3	8.3	9.2	10.1	10.3	10.0	9.4	10.1	10.1	7.8	
2.3	3.2	4.4	5.8	7.0	8.0	7.8	8.1	7.9	7.1	6.1	5.0	4.3	4.3	4.8	5.5	6.5	7.5	8.1	9.2	9.4	9.9	9.5	9.3	8.2	5.7	
1.8	2.8	3.9	4.8	6.0	6.7	6.8	6.8	6.5	5.8	5.1	4.4	3.7	3.4	3.7	4.4	5.0	5.7	7.0	8.1	8.0	8.8	8.0	7.7	6.9	4.9	
1.5	2.4	3.2	4.0	4.7	5.1	5.2	5.2	5.3	5.1	4.5	4.1	3.6	3.0	2.6	2.7	3.0	3.5	4.4	5.4	5.9	6.3	6.6	6.1	5.4	4.9	4.0
1.2	1.8	2.5	3.1	3.6	3.9	3.9	4.1	3.9	3.4	3.0	2.6	2.2	1.9	1.8	2.0	2.5	3.3	4.0	4.2	4.5	4.8	4.3	3.6	3.4	3.0	
0.9	1.3	1.7	2.2	2.6	2.8	2.7	2.9	2.8	2.4	2.0	1.7	1.5	1.3	1.3	1.3	1.7	2.2	2.6	2.8	3.0	3.0	2.4	2.1	1.8		
0.7	0.9	1.2	1.4	1.7	1.9	1.8	1.8	1.8	1.6	1.3	1.1	1.0	0.9	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	1.8	1.4	1.2	1.0	
0.5	0.8	0.8	0.9	1.1	1.1	1.1	1.1	1.1	1.0	0.8	0.7	0.6	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.0	0.8	0.7	0.6		



Pole location(s) dimensions are relative to 0,0 reference point(s)

Phoenix Sky Harbor Intl Airport West Air Cargo Phoenix, AZ

GRID SUMMARY

Name: Cargo Apron - Hz
 Size: 6' x 0'
 Spacing: 30.0' x 30.0'
 Height: 0.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 5.47
 Maximum: 10.89
 Minimum: 0.47
 Avg / Min: 11.64
 Max / Min: 23.08
 UG (adjacent pts): 1.79
 CU: 0.88
 No. of Points: 486

LUMINAIRE INFORMATION

Applied Circuits: A
 Design Usage Hours: 100,000
 No. of Luminaires: 24
 Avg Load: 25.27 KW
 Max Load: 28.08 KW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.96 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical zoning.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

This structure utilizes a back-to-back mounting configuration

Pole	GRADE	SIZE	HEIGHT	QUANTITY	OTHER
1	100'	100'	100'	24	0
2	100'	100'	100'	24	0
TOTALS				24	0

EQUIPMENT LAYOUT

INCLUDES:

- West Cargo

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical zoning.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole	LOCATION	SIZE	ELEVATION	HEIGHT	QUANTITY	OTHER
1	P1-P2	100'	100'	100'	24	0
2	P1-P2	100'	100'	100'	24	0
TOTALS						24

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Line Amperage Per Luminaire

Single Phase Voltage	208	240	277	347	380	480
TLC-LED-1200	7.0	5.6	5.1	5.2	4.2	3.0



THE CITY OF PHOENIX CITY CODE CHAPTER 21, SECTIONS 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE PHOENIX CITY OF PHOENIX CONTRACT.

ISSUED FOR BIDS / SUBMISSIONS

NO. _____

REVISIONS / SUBMISSIONS

DATE 04/23/23

PHX DVT BYR
 CITY OF PHOENIX AVIATION DEPARTMENT
PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
WEST AIR CARGO RECONSTRUCTION
 AV0600026 FAA

AP NO. 2023-0029-106-2023
 2023-04-09-106-2023

Designed by: JCA
 Drawn by: JCA
 Checked by: CA
 Date: 04/19/23
 Dwg scale: NTS

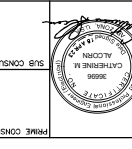
PHOTOMETRICS

SHEET OVERVIEW TITLE

SHEET NO. OF 108

EA-401

SHEET NUMBER

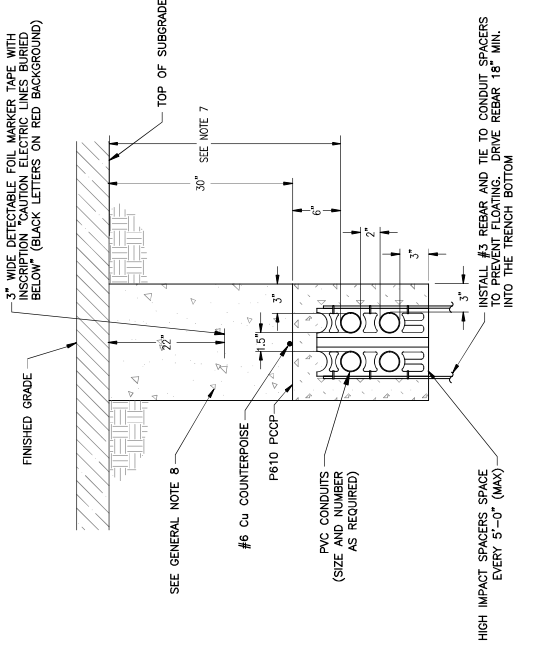


NO.	REVISIONS / SUBMISSIONS	DATE
	ISSUED FOR BID	04/23

PHOENIX SKY HARBOR
 RECONSTRUCTION
 WEST AIR CARGO
 INTERNATIONAL AIRPORT
 AV06000026 FAA
 CITY OF PHOENIX AVIATION DEPARTMENT
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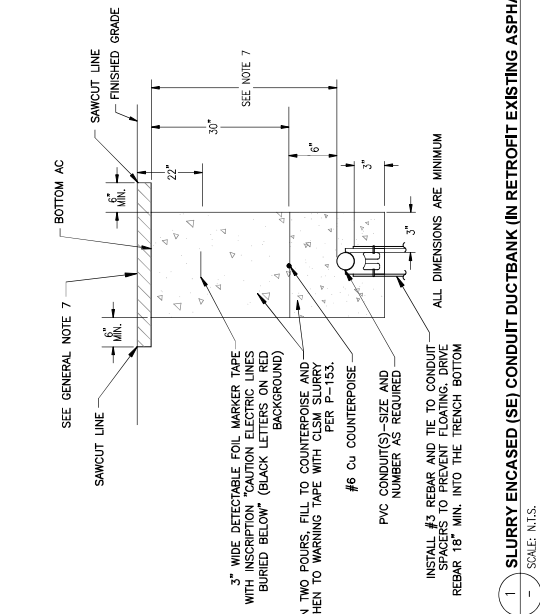
APR. NO.	3-04-0029-107-2023
DATE	04/18/23
DWG. NO.	AS SHOWN
CHECKED BY:	CA
DRAWN BY:	JCA
DESIGNED BY:	JCA

ELECTRICAL DUCTBANK DETAILS
 SHEET OVERVIEW TITLE

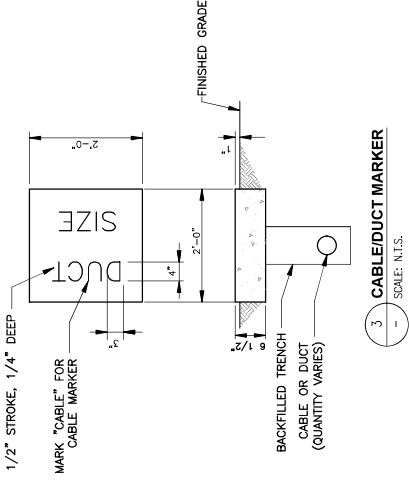


2 CONCRETE ENCASED (CE) CONDUIT DUCTBANK
 SCALE: N.T.S.

- GENERAL NOTES FOR CONDUIT INSTALLATION**
- PROVIDE PULL STRINGS IN ALL (NEW) UNUSED CONDUITS. PLOG ENDS IN HANDHOLES.
 - P-610 CONCRETE ENCASE UNDER PAVEMENT AND AS OTHERWISE INDICATED ON PLANS.
 - INSTALL A #6 BARE COPPER (Cu) COUNTERPOISE RODS TO EACH HANDHOLE AND ELECTRICALLY WELD TO GROUND RODS AT EACH HANDHOLE.
 - INSTALL LIGHTING SERIES CIRCUITS AS FOLLOWS:
 - ONE CIRCUIT (1 OR 2 CONDUCTORS) PER 2°C. LIMIT 4°C TO NO MORE THAN (6) CONDUCTORS.
 - START INSTALLATION IN BOTTOM CONDUITS OF DUCT ARRAY, LEAVING THE UPPER CONDUITS EMPTY.
 - ALL UNDERGROUND CONDUITS SHALL MAINTAIN A MINIMUM 18" CLEARANCE FROM EXISTING OR NEW UNDERGROUND FACILITIES (i.e., water, sewer, and gas lines, including both public and private), UNLESS NOTED OTHERWISE ON DRAWINGS.
 - CONDUIT IN DUCTBANK(S) ARE TO BE STACKED NO MORE THAN TWO (2) CONDUITS. IF MORE CONDUITS ARE NEEDED, THE WIDTH OF THE TRENCH IS TO BE INCREASED.
 - ADJUST DEPTH TO 18"-24" TOTAL FOR CONDUIT INSTALLATION BETWEEN OR INTO L-867/L-868 CONDUIT COUNTERPOISE AT 1/2" BELOW FINISHED GRADE FOR THESE SECTIONS:
 - BENEATH PAVED SURFACES, CONDUIT SHALL BE SPACED WITH P-610 STRUCTURAL PORTLAND CEMENT CONCRETE. TRENCHES SHALL BE BACKFILLED WITH P-153 CLSM UP TO THE BOTTOM OF THE CONDUIT COUNTERPOISE. REFER TO SHEET CP-501 FOR PROPOSED PAVEMENT SECTION THICKNESSES. BENEATH INFIELD AREAS, CONDUIT SHALL BE ENCASED WITH P-153 CLSM AND THE TRENCH BACKFILLED WITH CLSM UP TO THE LAST OF THE CONDUITS. THE TOP SURFACES OF MATERIAL SHALL BE COMPACTED NATIVE SOIL.
 - BENEATH GRADE SURFACES, CONDUIT SHALL BE SPACED WITH P-610 STRUCTURAL PORTLAND CEMENT CONCRETE. TRENCHES SHALL BE BACKFILLED WITH P-153 CLSM UP TO THE BOTTOM OF THE CONDUIT COUNTERPOISE. REFER TO SHEET CP-501 FOR PROPOSED PAVEMENT SECTION THICKNESSES. BENEATH INFIELD AREAS, CONDUIT SHALL BE ENCASED WITH P-153 CLSM AND THE TRENCH BACKFILLED WITH CLSM UP TO THE LAST OF THE CONDUITS. THE TOP SURFACES OF MATERIAL SHALL BE COMPACTED NATIVE SOIL.

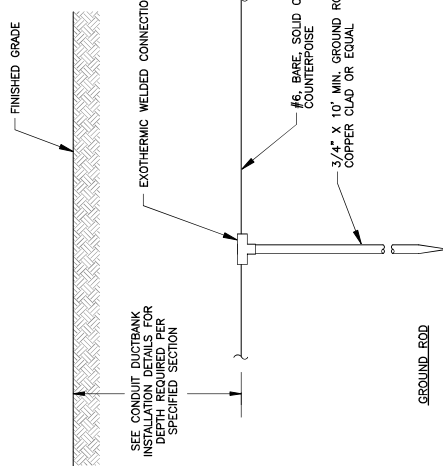


1 SLURRY ENCASED (SE) CONDUIT DUCTBANK (IN RETROFIT EXISTING ASPHALT)
 SCALE: N.T.S.



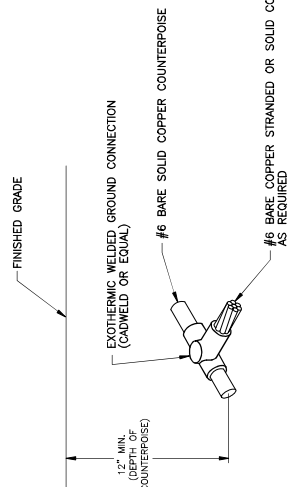
3 CABLE/DUCT MARKER
 SCALE: N.T.S.

- NOTES**
- LOCATE THE MARKERS ABOVE THE ENDS OF ALL DUCTS OR DUCT BANKS, EXCEPT WHERE DUCTS TERMINATE IN THE HANDHOLE, MANHOLE, OR TRENCH. THE MARKERS MUST BE IMPRESSED INTO THE ASPHALT SURFACE WITH THE NUMBER AND SIZE OF DUCTS BENEATH THE MARKER.
 - FURNISHING AND INSTALLATION OF DUCT MARKER IS INCIDENTAL TO THE RESPECTIVE PAY ITEM L-110-3.4.



1 COUNTERPOISE INSTALLATION DETAIL
SCALE: N.T.S.

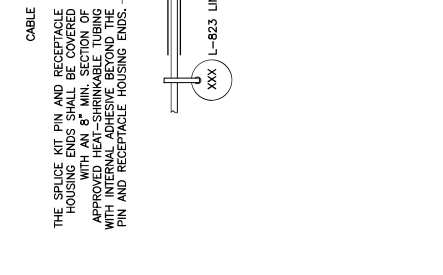
- NOTES
- COST OF GROUND RODS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
 - WHERE POSSIBLE, NEW COUNTERPOISE SYSTEM SHALL BE CONNECTED TO ANY EXISTING COUNTERPOISE SYSTEM ENCOUNTERED.
 - GROUNDING ELECTRODES INSTALLED AS PART OF THE COUNTERPOISE SYSTEM SHALL BE SPACED AT DISTANCES NO GREATER THAN 500 FT. (MAX).
 - REFER TO DETAILS 2, SHEET EA-501, FOR CONCRETE ENGAGED CONDUITS. REFER TO DETAIL 1, SHEET EA-501 FOR SLURRY ENGAGED CONDUITS.
 - MAINTAIN SIX INCH (MINIMUM) VERTICAL SEPARATION BETWEEN COUNTERPOISE AND TYPE "C" CABLE IN 2" CONDUIT.
 - PROVIDE GROUND ROD FOR EXOTHERMICALLY WELDING TO COUNTERPOISE AT END OF SINGLE CONDUITS TERMINATING AT FIXTURE OR SIGN BASES IF DISTANCE IS GREATER THAN 1' FROM HANDHOLE OR LAST INSTALLED COUNTERPOISE ROD.



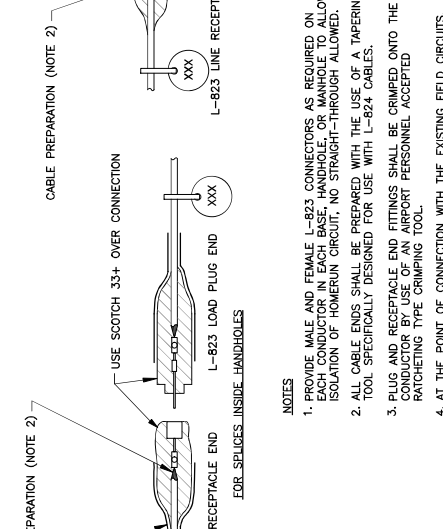
2 COUNTERPOISE TO CABLE CONNECTION DETAIL
SCALE: N.T.S.



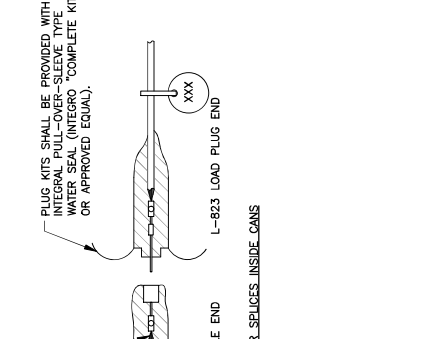
3 CABLE TO GROUND ROD CONNECTION DETAIL
SCALE: N.T.S.



4 TYPICAL SKV CABLE SPLICE
SCALE: N.T.S.



FOR SPLICES INSIDE HANDHOLES



FOR SPLICES INSIDE CANS

- NOTES
- PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE, HANDHOLE, OR MANHOLE TO ALLOW ISOLATION OF HOMERUN CIRCUIT, NO STRAIGHT-THROUGH ALLOWED.
 - ALL CABLE ENDS SHALL BE PREPARED WITH THE USE OF A TAPERING TOOL SPECIFICALLY DESIGNED FOR USE WITH L-824 CABLES.
 - PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED RATCHETING TYPE CRIMPING TOOL.
 - AT THE POINT OF CONNECTION WITH THE EXISTING FIELD CIRCUITS, INSTALL NEW L-823 PLUGS ON BOTH THE NEW AND EXISTING CABLES. VERIFY INSULATION TYPES OF BOTH NEW & EXISTING CABLES AND USE THE CORRECT TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.
 - INSTALL 33+VINYL-130C ELECTRICAL TAPE AND A SECOND LAYER OF RUBBER-33+VINYL ON CONNECTION AFTER PULLING SLEEVE OVER COMPLETE KIT.
 - THERE SHALL BE NO SPLICES BETWEEN LIGHTS, ONLY IN BASES OR HANDHOLES.
 - PROVIDE AND INSTALL NON-CONDUCTIVE CIRCUIT IDENTIFICATION TAGS ATTACHED TO EACH SIDE OF ALL CONNECTOR KITS.
 - ON THE CABLES FOR THE RUNWAY CIRCUIT, TAPE FROM THE BACK END OF THE CONNECTOR KIT ONTO CABLE FOR 3" EACH RED PHASE TAPE FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.
 - ON THE CABLES FOR THE TAXIWAY AND SIGNAGE CIRCUITS, TAPE FROM THE BACK END OF THE CONNECTOR KIT ONTO CABLE FOR 3" EACH. BLUE THEN WHITE PHASE TAPE FOR SIGNS, BLUE ONLY PHASE TAPE FOR LIGHTS. MATCH EXISTING MANHOLE LAYOUTS.

DESIGNED BY: JCH
DRAWN BY: JCH
CHECKED BY: CA
DATE: 04/18/23
DWG NO: 04-0029-106-2023

PHOENIX SKY HARBOR
INTERNATIONAL AIRPORT
RECONSTRUCTION
WEST AIR CARGO
AV06000026 FAA

PHOENIX AVIATION DEPARTMENT
CITY OF PHOENIX

REVISIONS / SUBMISSIONS
DATE
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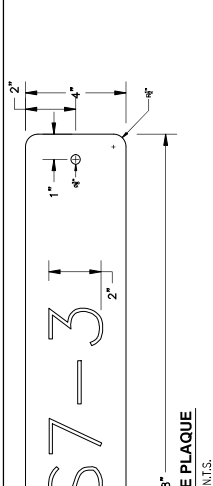
TRAEF CONSULTANTS
1000 N. CENTRAL AVENUE, SUITE 100
PHOENIX, AZ 85004
PH: 602.442.1111
WWW.TRAEF.COM

3100 CONSULTANT
3100 CONSULTANT

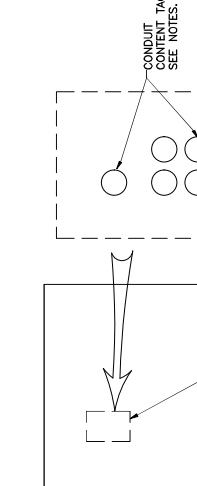


NO.	REVISIONS / SUBMISSIONS	DATE

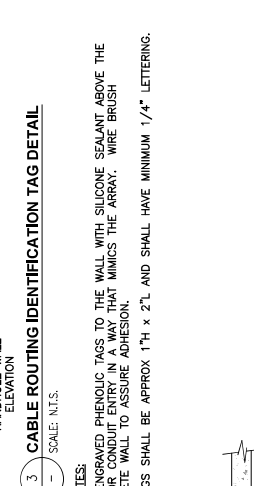
Project No.	23-04-0029-106-2023
Date:	04/18/23
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Designed by:	JCA



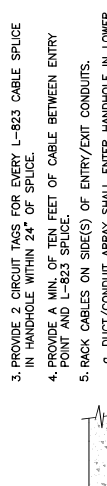
- 576 NAME PLAQUE**
 TYP SCALE: N.T.S.
- NAME PLAQUE IS TO BE 4" IN HEIGHT, 28" IN WIDTH, AND 1/8" THICK. THE NAME PLAQUE SHALL BE ALUMINUM.
 - LETTERING IS TO BE 2" IN HEIGHT, AND 1 1/4" IN WIDTH, AND IS TO BE CENTERED VERTICALLY AND HORIZONTALLY ON THE PLAQUE.
 - LETTERING SHOULD BE CUT BY A COMPUTER-AIDED PLASMA CUTTER, OR SIMILAR DEVICE, TO INSURE THE EDGES ARE STRAIGHT AND CLEAN.
 - 3/8" DIA. HOLES WILL BE PROVIDED ON BOTH ENDS, TO ALLOW THE USE OF CONCRETE ANCHOR SCREWS, TO ATTACH TO THE CONCRETE TOP SECTION OF THE MANHOLE/HANDHOLE.
 - NEW NAME PLAQUES ARE REQUIRED WHERE NEW MANHOLE/HANDHOLE DESIGNATIONS HAVE BEEN ASSIGNED.
 - REFER TO CIVIL PLAN SHEETS FOR MANHOLE/HANDHOLE LOCATIONS AND ELEVATIONS.



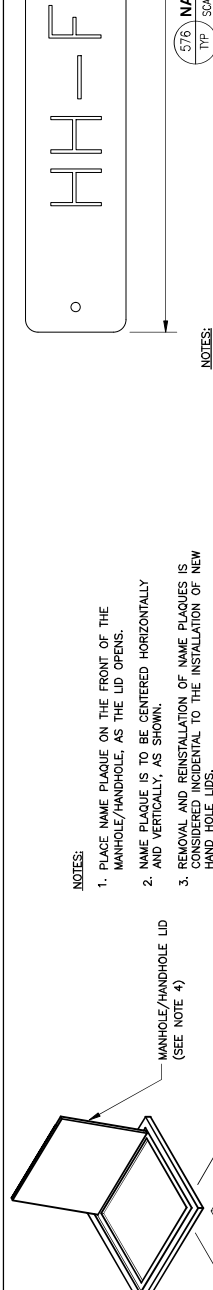
- 2 HANDHOLE COUNTERPOISE DETAIL**
 SCALE: N.T.S.
- NOTES:**
 ALL COUNTERPOISE WIRES FOR DUCTBANKS AND CONDUITS TO BE EXOTHERMICALLY WELDED TO COUNTERPOISE LOOP AROUND STRUCTURE.



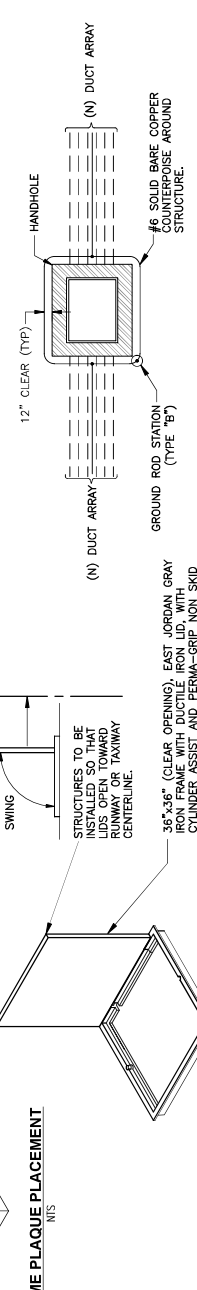
- 3 CABLE ROUTING IDENTIFICATION TAG DETAIL**
 SCALE: N.T.S.
- PLAQUE NOTES:**
- AFFIX ENGRAVED PHENOLIC TAGS TO THE WALL WITH SILICONE SEALANT ABOVE THE DUCT OR CONDUIT ENTRY IN A WAY THAT MIMICS THE ARRAY. WIRE BRUSH CONCRETE WALL TO ASSURE ADHESION.
 - THE TAGS SHALL BE APPROX 1" H X 2" L AND SHALL HAVE MINIMUM 1/4" LETTERING.



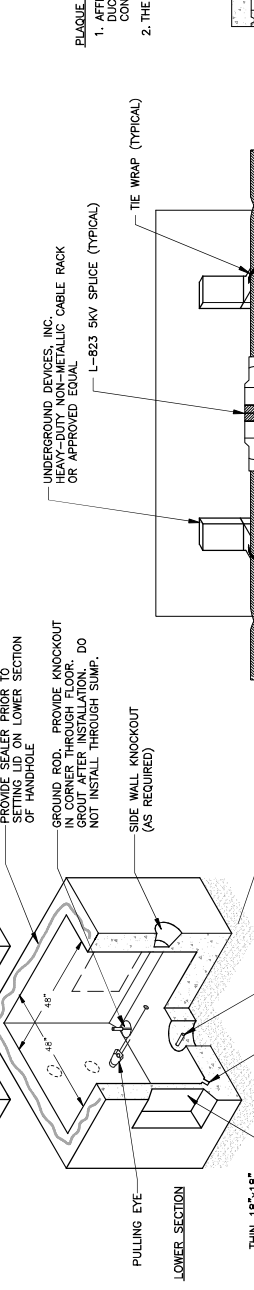
- 4 CABLE RACKING DETAIL**
 SCALE: N.T.S.
- HANDHOLE NOTES:**
- ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - PROVIDE ALL HANDHOLES WITH CABLE RACKS AND PULLING EYES PER SPECIFICATIONS.
 - PROVIDE CABLE ROUTING ID TAGS AT EACH HANDHOLE.
 - PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECIFICATIONS.
 - GROUT ALL CONDUIT PENETRATIONS.
 - PROVIDE MANUFACTURER DRAWINGS AND STRUCTURAL CALCULATIONS FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED AIRCRAFT RATED LIDS.
 - NOTE: DO NOT CONNECT COUNTERPOISE TO GROUNDING SYSTEM. ROUTE AROUND HANDHOLES.



- NOTES:**
- PLACE NAME PLAQUE ON THE FRONT OF THE MANHOLE/HANDHOLE, AS THE LID OPENS.
 - NAME PLAQUE IS TO BE CENTERED HORIZONTALLY AND VERTICALLY, AS SHOWN.
 - REMOVAL AND REINSTALLATION OF NAME PLAQUES IS CONSIDERED INCIDENTAL TO THE INSTALLATION OF NEW HAND HOLE LIDS.
 - ALL HATCH/LID HINGES SHALL BE ORIENTED ON RUNWAY OR TAXIWAY SIDE OF STRUCTURE.



- 1 4'x4'x4' HANDHOLE DETAIL**
 SCALE: N.T.S.
- (AIRCRAFT LOAD RATED - SEE SPEC. L-115)
- HANDHOLE NOTES:**
- ALL STEEL, OTHER THAN REBAR, TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - PROVIDE ALL HANDHOLES WITH CABLE RACKS AND PULLING EYES PER SPECIFICATIONS.
 - PROVIDE CABLE ROUTING ID TAGS AT EACH HANDHOLE.
 - PROVIDE GROUND ROD FOR EACH HANDHOLE PER SPECIFICATIONS.
 - GROUT ALL CONDUIT PENETRATIONS.
 - PROVIDE MANUFACTURER DRAWINGS AND STRUCTURAL CALCULATIONS FOR ALL CONCRETE ELEMENTS OF HANDHOLES AND FABRICATED AIRCRAFT RATED LIDS.
 - NOTE: DO NOT CONNECT COUNTERPOISE TO GROUNDING SYSTEM. ROUTE AROUND HANDHOLES.



- NOTES:**
- STRUCTURES TO BE INSTALLED SO THAT LIDS OPEN TOWARD RUNWAY OR TAXIWAY CENTERLINE.
 - 36" x 36" (CLEAR OPENING), EAST JORDAN GRAY IRON FRAME WITH DUCTILE IRON LID, WITH REINFORCING BARS, 3/4" THICK, 3/16" SURFACE AIRCRAFT RATED TO 100,000 LBS (EJ8197 ASSEMBLY OR APPROVED EQUAL), MARKED "ELECTRIC" OR "COMMUNICATIONS" AS REQUIRED.
 - SET TOP 1/2" ABOVE ADJACENT GRADE.
 - PROVIDE SEALER PRIOR TO SETTING LID ON LOWER SECTION OF HANDHOLE.
 - GROUND ROD. PROVIDE KNOCKOUT IN CORNER THROUGH FLOOR GROUT AFTER INSTALLATION. DO NOT INSTALL THROUGH SUMP.
 - SIDE WALL KNOCKOUT (AS REQUIRED).
 - MINIMUM 12" BED OF 3/4" NOMINAL CRUSHED ROCK.
 - FLUSH PULL IRON.
 - 1" THREADED INSERTS.
 - THIN 18" x 18" WALL KNOCKOUTS (AS REQUIRED).



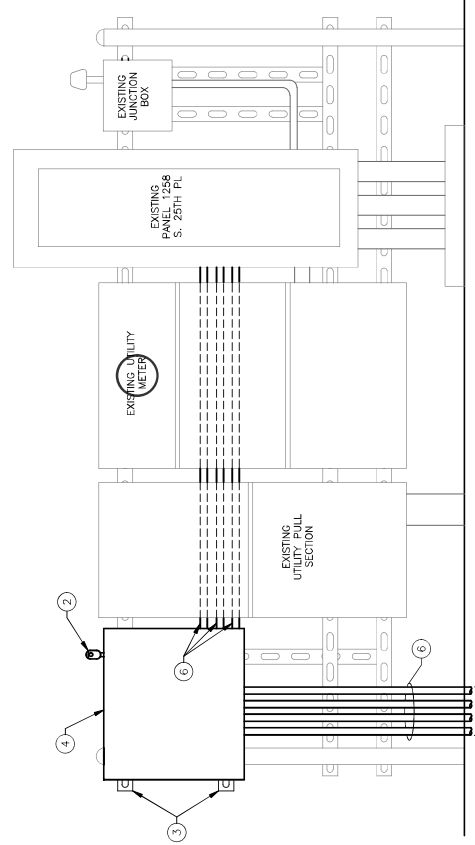
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**PHOENIX SKY HARBOR
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 WEST AIR CARGO
 INTERNATIONAL AIRPORT
 AV06000026 FAA**

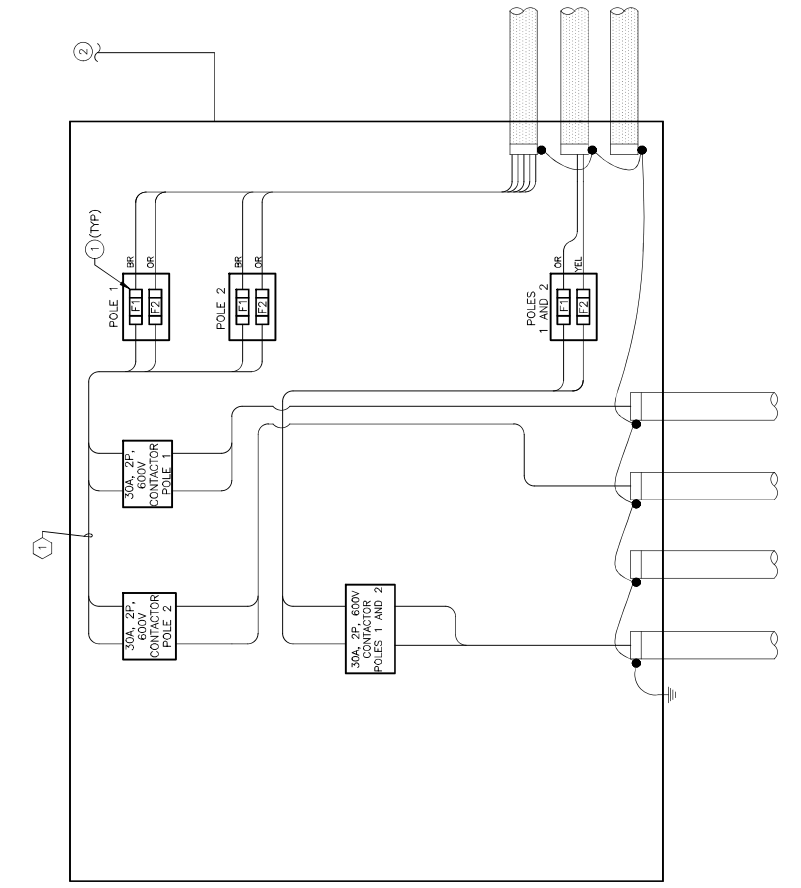
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DATE:	04/18/23
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CHECKED BY:	CA
DWG NO.:	AS SHOWN

DESIGNED BY: JCA
 CHECKED BY: CA
 DATE: 04/18/23
 DRAWING NO.: AS SHOWN
 SHEET OVERVIEW TITLE: LIGHTING CONTROL CABINET DETAILS

SECRET NUMBER: EA-504
 SHEET 103 OF 108



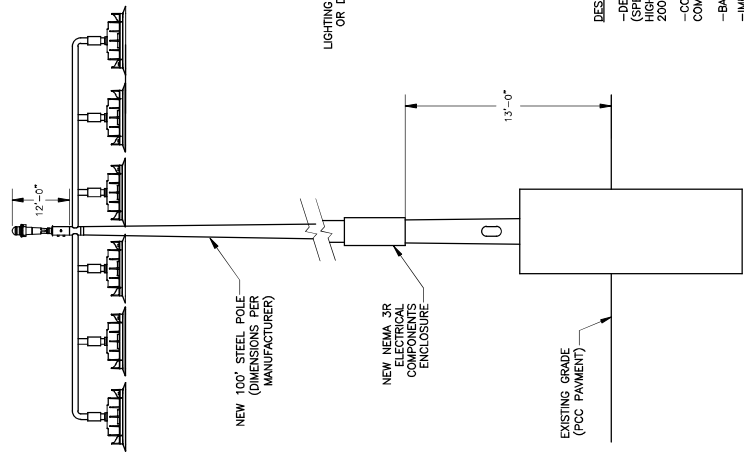
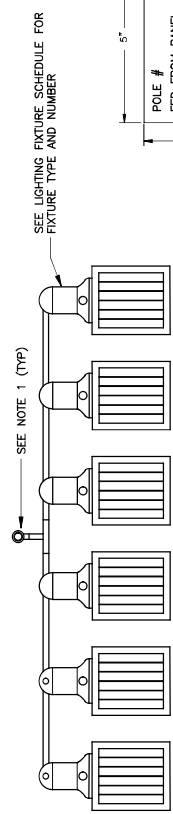
NEW CONTACTOR ELEVATION VIEW
 SCALE: N.T.S.



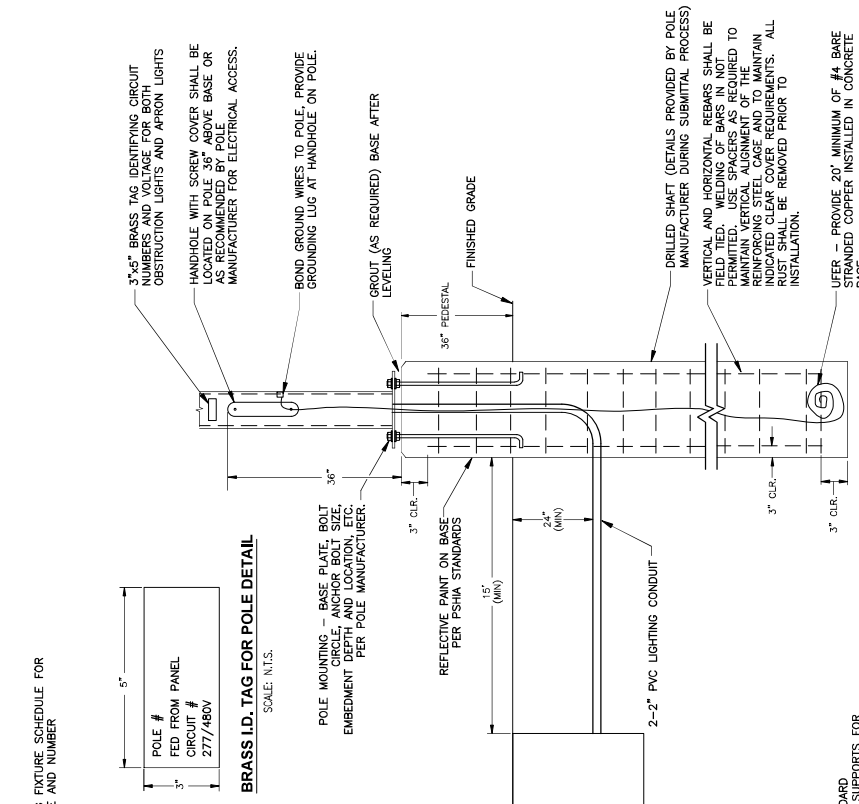
LIGHTING CONTACTOR WIRING DIAGRAM
 SCALE: N.T.S.

- | KEYED NOTES | INSTALLATION NOTES |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 REFER TO SHEET EA-101 FOR CONDUCTOR SIZES TO LIGHT POLES.</p> | <p>1 NEW 30A, CLASS J, 600V, CURRENT LIMITING FUSE</p> <p>2 TO NEW 277V PHOTOCELL TO CONTROL NEW LIGHTING CONTACTORS. MOUNT PHOTOCELL SO THAT THE LENS FACES AWAY FROM ARTIFICIAL LIGHT SOURCES. PLACE PHOTOCELL ABOVE EQUIPMENT. INSTALL STRUT AS NEEDED FOR CONDUIT AND CABINET SUPPORTS</p> <p>3 NEW SURFACE MOUNTED NEMA 3R LIGHTING CONTACTOR/CONTROL CABINET.</p> <p>4 NEW 4-27C DUCTBANK - REFER TO SHEET EA-101</p> <p>5 2" GR5</p> |

UNIT	QTY.
EA	6
EA	1
LS	1
EA	1
LF	80



2 APRON LIGHTING
SCALE: N.T.S.



1 TYPICAL APRON LIGHTING POLE FOUNDATION DETAIL
SCALE: N.T.S.

DESIGN CRITERIA
 -DESIGN STANDARD: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAYS SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 2008 5TH EDITION WITH INTERIMS TO 2011.
 -CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH $f'_c = 4000$ PSI.
 -BASIC WIND SPEED: 90 MPH (3 SECOND GUST)
 -IMPORTANCE FACTOR: 1.0
 -ELEVATION USED FOR WIND PRESSURE DESIGN: 60 FT.
 -POLE DESIGN ATTACHMENTS OF ALL MEMBERS AND ANCHOR BOLTS SHALL BE DESIGNED BY POLE MANUFACTURER TO SATISFY THE ABOVE DESIGN CRITERIA.

NOTE FOR DETAIL 1
 1. THE POLE CONCRETE BASE DETAIL IS SHOWN FOR ELECTRICAL ROUGH-IN AND SHALL NOT BE USED FOR THE ACTUAL BASE CONSTRUCTION. STRUCTURAL DETAILS PROVIDED BY MANUFACTURER, SEALED AND SIGNED BY LICENSED ARIZONA STRUCTURAL ENGINEER.
 2. GENERAL DIMENSIONS FOR 100' POLES ARE 4" DIAMETER X 22' EMBEDMENT DEPTH.

NOTES
 1. CONTRACTOR TO PROVIDE NEW FAA APPROVED 277V LED OBSTRUCTION LIGHT FIXTURES MOUNTING ASSEMBLIES AND INSTALLATION.
 2. APRON LIGHTING OR POLE MANUFACTURER SHALL PROVIDE MOUNTING PROVISIONS FOR OBSTRUCTION LIGHTS.

DRAWING CALLOUT	PICTORIAL	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER MODEL No.	REMARKS
		12-LED 1170 WATTS 5700K 75 CRI	POLE	SLIM, LOW PROFILE DESIGN: LOW COPPER DIECAST ALUMINUM, POWDER-COAT PAINTED CABINET, 100' TALL, 4" DIA. ADJUSTING CURRENT FEED, UL LISTED, IP65 RATED,	MUSCO LIGHTING TLC-LED-1200	FIXTURE OR DRIVER CABINET SHALL BE PROVIDED WITH SEVEN PIN LABEL/GATEWAY CONTROL WITH SHORTING CAPS.
					OR EQUAL	



RESERVE NUMBER
EA-505
SHEET 103 OF 108

APRON LIGHT DETAILS

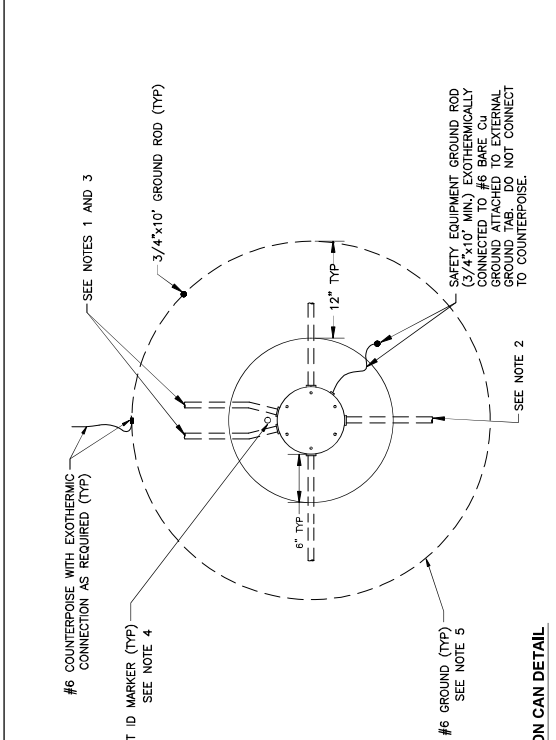
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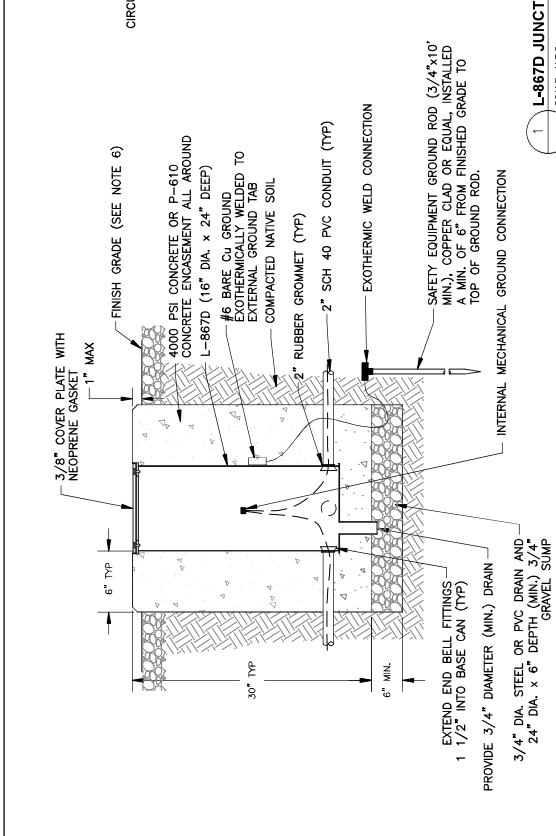


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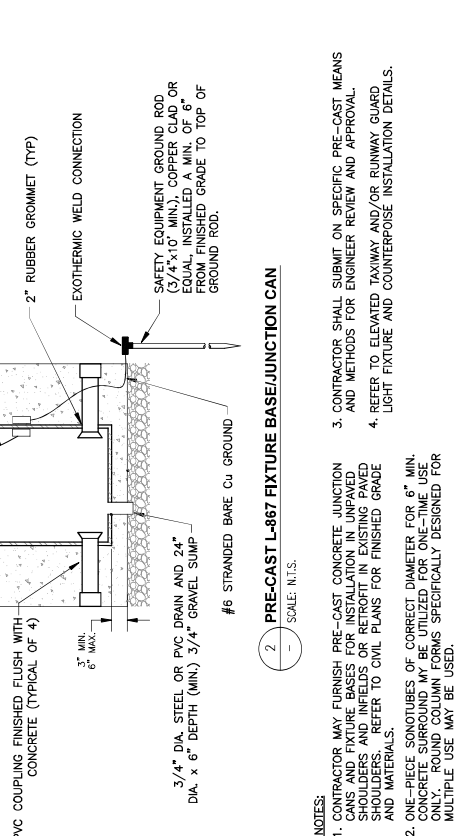
GENERAL NOTES:

- LEAVE APPROXIMATELY SIX (6) FEET OF EACH CABLE COILED IN JUNCTION CAN SO THAT EACH CABLE MAY BE RAISED A MINIMUM OF TWO (2) FEET ABOVE TOP OF CONCRETE.
- CONTRACTOR SHALL PROVIDE CABLE CIRCUIT IDENTIFICATION (ID) MARKERS ATTACHED TO EACH CABLE ENTERING AND LEAVING JUNCTION CANS. IF NO L-823 CONNECTOR IS PRESENT, INSTALL ONE (1) ID MARKER.
- TRANSITION FROM MULTI-WAY CONDUIT TRENCH TO JUNCTION CAN REQUIRES DISTRIBUTION OF 2" SCH 40 PVC TO EACH JUNCTION CAN. CONTRACTOR SHALL LIMIT CONDUIT BENDS TO 45 DEG. MAXIMUM.
- CONTRACTOR SHALL INSTALL L-823 CONNECTORS IN A CONSISTENT MANNER FROM JUNCTION CAN TO THE APPROXIMATE CENTERLINE OF EACH 24\"/>



PRE-CAST L-867 FIXTURE BASE/JUNCTION CAN
 SCALE: N.T.S.

- CONTRACTOR MAY FURNISH PRE-CAST CONCRETE JUNCTION CANS AND FIXTURE BASES FOR INSTALLATION IN UNPAVED SHOULDERS AND INFIELDS OR RETROFIT IN EXISTING PAVED SHOULDERS. REFER TO CIVIL PLANS FOR FINISHED GRADE AND MATERIALS.
- ONE-PIECE SONOTUBES OF CORRECT DIAMETER FOR 6" MIN. HEIGHT WITH SLIGHTLY FLARED TOPS SPECIFICALLY DESIGNED FOR MULTIPLE USE MAY BE USED.
- CONTRACTOR SHALL SUBMIT ON SPECIFIC PRE-CAST MEANS AND METHODS FOR ENGINEER REVIEW AND APPROVAL.
- REFER TO ELEVATED TAXIWAY AND/OR RUNWAY GUARD LIGHT FIXTURE AND COUNTERPOISE INSTALLATION DETAILS.



PRE-CAST L-867 FIXTURE BASE/JUNCTION CAN
 SCALE: N.T.S.

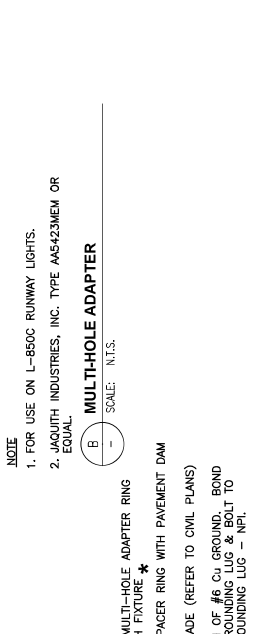
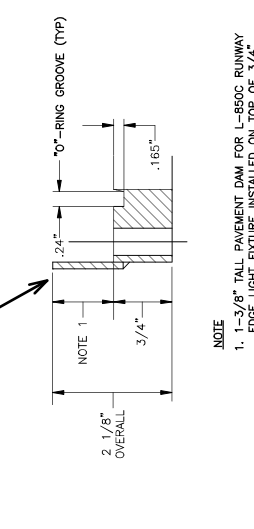
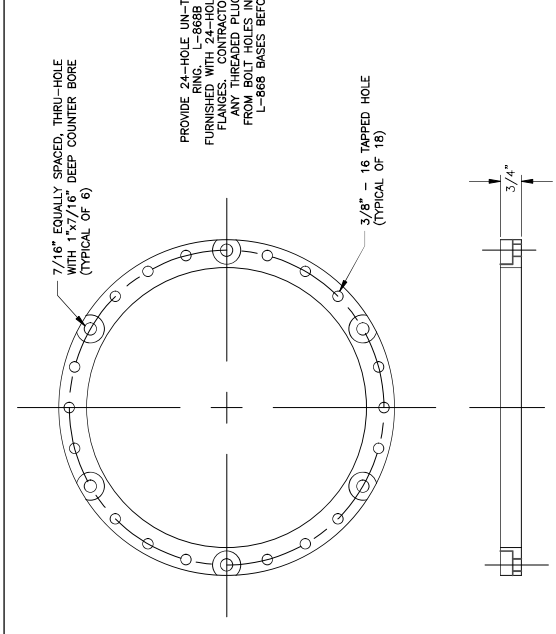
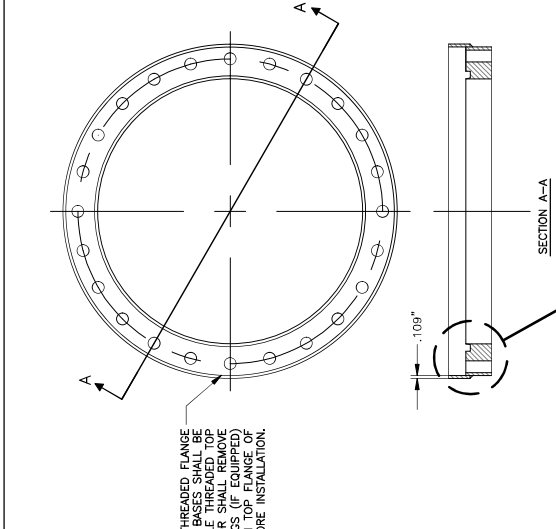
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- ONE-PIECE SONOTUBES OF CORRECT DIAMETER FOR 6" MIN. HEIGHT WITH SLIGHTLY FLARED TOPS SPECIFICALLY DESIGNED FOR MULTIPLE USE MAY BE USED.
- CONTRACTOR SHALL SUBMIT ON SPECIFIC PRE-CAST MEANS AND METHODS FOR ENGINEER REVIEW AND APPROVAL.
- REFER TO ELEVATED TAXIWAY AND/OR RUNWAY GUARD LIGHT FIXTURE AND COUNTERPOISE INSTALLATION DETAILS.

NO	REVISIONS / SUBMISSIONS	DATE

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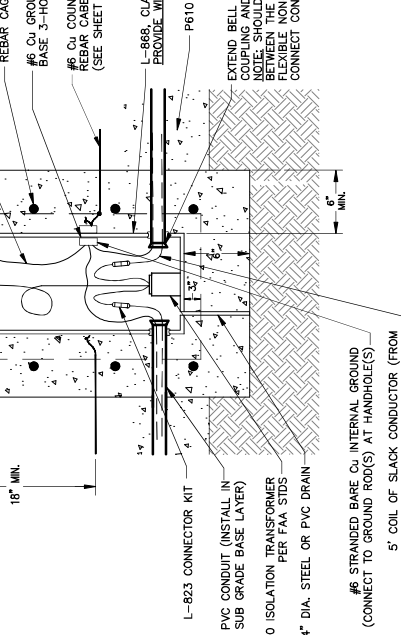
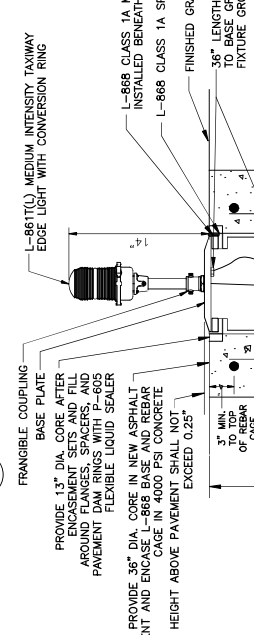
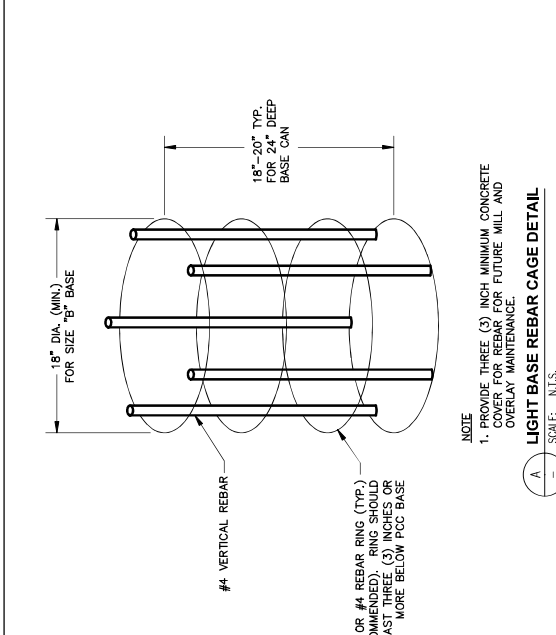
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 Date: 04/18/23
 Checked by: JCA
 Drawn by: JCA
 Designed by: JCA

SHEET OVERVIEW TITLE
TAXWAY EDGE LIGHT DETAILS
 SHEET NUMBER:
EA-507
 SHEET 105 OF 108



NOTE
 1. 1-3/8" TALL PAVEMENT DAM FOR L-850C RUNWAY EDGE LIGHT FIXTURE INSTALLED ON TOP OF 3/4" THICK MULTI-HOLE ADAPTER RING.

FLANGE RING WITH PAVEMENT DAM
 SCALE: N.T.S.

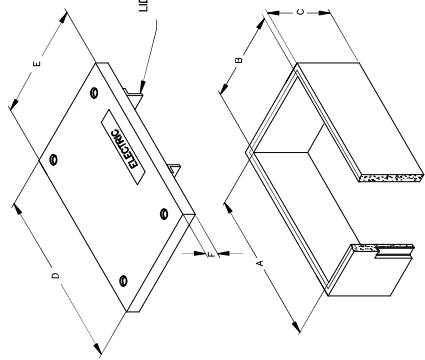


NOTE
 1. FOR USE ON L-850C RUNWAY LIGHTS.
 2. JAQUITH INDUSTRIES, INC. TYPE AA5423MEM OR EQUAL.

MULTI-HOLE ADAPTER
 SCALE: N.T.S.

NOTE
 1. THE BASIC EQUIPMENT TO BE USED ON ALL BASE CANS INSTALLED IN FULL STRENGTH PCC PAVEMENT IS: (1) 7/16" FLANGE RING WITH 1-3/8" ADAPTER RING ON TOP OF THE L-868 BASE CAN, AND (1) 3/4" MULTI-HOLE ADAPTER RING ON TOP OF THE L-868 BASE CAN.
 2. IF REQUIRED, PROVIDE ADEQUATE SPACER RINGS (MAX. 3/8" THICKNESS, MIN. 1/16" THICKNESS) TO ALLOW FOR ADJUSTMENT UP OR DOWN TO MEET FINAL GRADE REQUIREMENTS. CONTRACTOR SHALL NOT USE MORE THAN THREE (3) SPACER RINGS UNDER EACH FLANGE RING WITH PAVEMENT DAM.
 3. REFER TO CIVIL PLANS FOR NEW PAVEMENT AND BASE SECTIONS.

NEW ELEVATED TAXIWAY EDGE LIGHT FIXTURE INSTALLATION DETAIL
 SCALE: N.T.S.



PULL BOX TYPE	PULL BOX LENGTH	PULL BOX WIDTH	PULL BOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
#1	17'-1/4"	10'-1/2"	12"	15'-1/2"	10'-1/8"	1'-3/4"
#2	12"	12"	12"	21'-3/4"	11'-3/4"	2"
#3	30"	17"	12"	30'-9/8"	17'-5/8"	2"
#4	36"	36"	36"	24"	24"	6"

*THIS SIZING CHART TO BE USED FOR A GUIDELINE ONLY. CONTRACTOR IS RESPONSIBLE FOR SIZING JUNCTION BOXES PER NOTE 2 BELOW.

PULL BOX NOTES

- ENCLOSURE SHALL BE LISTED FOR UNDERGROUND SERVICES. ENCLOSURE SHALL BE SIZED TO ALLOW PERSONNEL TO REACH INTO, BUT NOT ENTER, FOR THE PURPOSE OF INSTALLING, OPERATING OR MAINTAINING EQUIPMENT OR WIRING OR BOTH.
- PULL BOX ENCLOSURE SHALL BE SIZED PER N.E.C. ARTICLE 314.22(A) (2008 NEC).
- UNDERGROUND RACEWAY AND/OR CABLE ENTERING THE PULL BOX ENCLOSURE SHALL PENETRATE INTO THE ENCLOSURE WITHOUT BEING MECHANICALLY CONNECTED TO ENCLOSURE.
- PULL BOX ENCLOSURE COVER SHALL HAVE AN IDENTIFYING MARK OR LOGO THAT PROMINENTLY IDENTIFIES THEIR FUNCTION, SUCH AS "ELECTRIC ENCLOSURE". ENCLOSURE SHALL BE DESIGNED TO RESIST THE USE OF TOOLS TO OPEN AND THEY SHALL WEIGH OVER 100lbs. METAL COVERS AND OTHER EXPOSED CONDUCTIVE SURFACES SHALL BE BONDED IN ACCORDANCE WITH N.E.C. ARTICLE 250.96(A) (2008 NEC).
- PULL BOX ENCLOSURES SHALL BE DESIGNED TO WITHSTAND THE LOAD LIKELY TO BE IMPOSED WITH MINIMUM LOAD RATINGS AS FOLLOWS:
 - FOR DELIBERATE VEHICULAR TRAFFIC - ASHTO H-20
 - FOR DRIVEWAY, PARKING LOT AND OFF-ROAD APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC - AASHTO/SC17 TIER 15 (SEE TIER 15)
- PULL BOX ENCLOSURES SHALL BE SUPPORTED ON SUITABLE FOUNDATIONS AND SPECIFICATIONS.
- PULL BOXES SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- CONDUIT BENDS SHALL BE GRS 90 DEGREE BEND CONDUIT WITH A RADIUS OF NO LESS THAN 18" (FACTORY BENDS ONLY SHALL BE USED).
- CONDUIT BUSHINGS SHALL BE INSTALLED BEFORE PULLING WIRE.
- 3/4" AGGREGATE SUMP SHALL BE INSTALLED.

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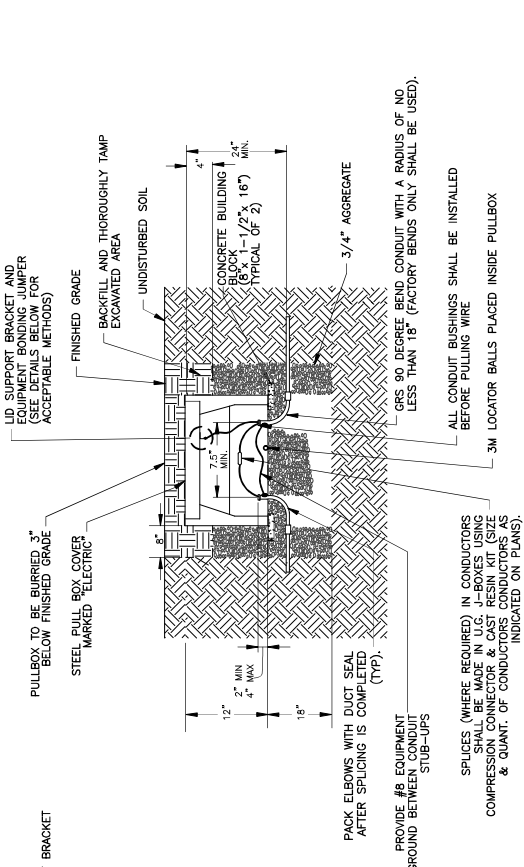
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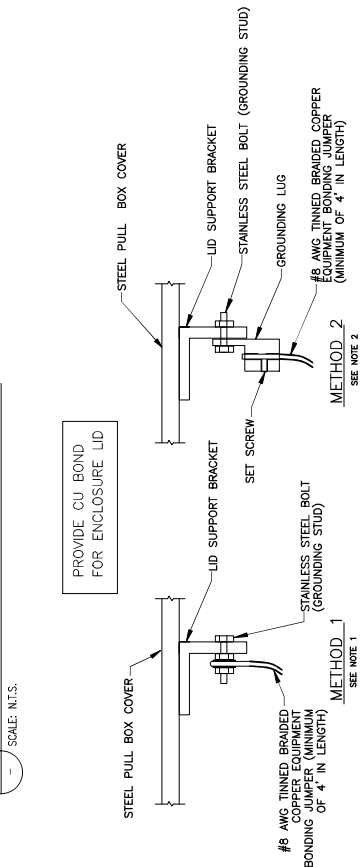
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Checked by: CA	Design score: AS SHOWN
Designed by: JCH	Rev No: 1
	Rev Date: 04-0029-107-2023

PULLBOX DETAIL

SHEET OVERVIEW TITLE
SHEET NUMBER: EA-508
SHEET 106 OF 108



UNDERGROUND CONCRETE JUNCTION/PULLBOX
SCALE: N.T.S.



NOTES

- INSTALL A 1/4"-20 NC x 3/4" STAINLESS STEEL GROUNDING LUG TO THE LID SUPPORT MEMBER(S) ON THE BOTTOM OF LID BY DRILLING A HOLE THROUGH THE LUG OR T-SHAPED SUPPORT THROUGH THE LUG OR T-SHAPED SUPPORT WITH TWO (2) STAINLESS STEEL NUTS AND FLAT WASHERS.
- SECURE GROUNDING LUG TO THE LID SUPPORT MEMBER(S) ON THE BOTTOM OF LID BY DRILLING A HOLE THROUGH THE LUG OR T-SHAPED SUPPORT WITH TWO (2) STAINLESS STEEL NUTS AND FLAT WASHERS.



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 2-04-0029-107-2023
 2-04-0029-106-2023
 Dwg No: NTS
 Date: 04/18/23
 Checked by: CA
 Drawn by: JCA
 Designed by: JCA

HANDHOLE DATA TABLE

TW-#	NORTHING	EASTING
(N)HH-EN2-1	885037.22	666224.59
HH-??-1	885266.31	666224.95
HH-1	885755.30	665809.00
HH-2	885754.49	666281.01

APRON POLE DATA TABLE

TW-#	NORTHING	EASTING
POLE-1	885745.54	665919.41
POLE-2	885745.50	666270.84

TAXIWAY EDGE LIGHT DATA TABLE

TW-#	NORTHING	EASTING
TW-1	884870.22	665679.84
TW-2	884870.36	665785.19
TW-3	884870.36	665859.93
TW-4	884867.99	665951.28
TW-5	884864.66	666041.89
TW-6	884861.24	666133.99
TW-7	884856.93	666225.15
TW-8	884841.34	666291.99
TW-9	884824.27	666358.80

JUNCTION CAN DATA TABLE

TW-#	NORTHING	EASTING
JC-1	884856.56	666239.28

EQUIPMENT LOCATION STANDARDS TABLE

EQUIPMENT TYPE	LOCATION STANDARD	NOTES
TAXIWAY EDGE LIGHT	2'-10" (SEE NOTE 3)	MEASURE TO CENTER OF LIGHT FIXTURE - STATION/OFFSET GIVEN IS CENTER OF LIGHT FIXTURE (SEE FAA AC 150/5340-30)

GENERAL NOTES

- EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE ONLY. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
- CONTRACTOR TO ENSURE NEW TAXIWAY EDGE LIGHT LOCATIONS DO NOT EXCEED 10 FEET FROM EDGE OF FULL STRENGTH PAVEMENT OR OUTER EDGE OF TAXIWAY EDGE MARKING AND ARE IN-LINE WITH EXISTING TAXIWAY EDGE LIGHTING (IF APPLICABLE). CONTRACTOR TO VERIFY ALL MEASUREMENTS AND RECORD THEM. CONTRACTOR TO VERIFY ALL MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF LIGHT LOCATIONS IS BEING PERFORMED, WITH ENGINEER BEFORE LIGHT BASE IS INSTALLED.