

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF FAA ADVISORY CIRCULAR 150/5370-10H, STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS, WHEREVER APPLICABLE.
2. REFER TO ADVISORY CIRCULAR AC-150/5370-2G FOR OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
3. REFER TO ADVISORY CIRCULAR AC-150/5340-1M FOR MARKING OF PAVED AREAS ON AIRPORTS. IF DETAIL IS NOT INCLUDED HEREIN.
4. REFER TO ADVISORY CIRCULAR AC-150/5210-5D FOR PAINTING, MARKING & LIGHTING OF VEHICLES ON AN AIRPORT.
5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
6. THE RPR SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING ANY PHASE OF CONSTRUCTION.
7. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE RPR AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR IS REQUIRED TO OBTAIN A HAUL PERMIT PRIOR TO HAULING TO OR FROM THE CONSTRUCTION SITE.
9. THE CONTRACTOR SHALL REMAIN WITHIN THE WORK AREAS AND NOT STRAY AROUND THE AIRPORT AIRSIDE AREAS.
10. ALL VEHICLES ARE TO BE PARKED AND SERVICED BEHIND THE CONSTRUCTION RESTRICTION LINE AND/OR IN AN AREA DESIGNATED BY THE AIRPORT MANAGER.
11. CONTRACTOR CONSTRUCTION EQUIPMENT SHALL BE STORED IN THE DESIGNATED CONTRACTOR STAGING AREA. STORAGE OF CONSTRUCTION EQUIPMENT IN THE CONSTRUCTION AREA IS NOT PERMITTED.
12. THE CONTRACTOR SHALL MAINTAIN SECURITY AT ALL ACCESS POINTS. ACCESS GATES SHALL BE LOCKED AT THE END OF EACH CONSTRUCTION DAY.
13. AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
14. THE CONTRACTOR WILL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION.
15. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION. FOR BLUE STAKE CALL 811 OR GO TO Arizona811.com.
16. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
17. THE CITY OF WILLIAMS IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION.
18. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL RECORD DRAWINGS, CERTIFIED BY THE RPR, ARE SUBMITTED TO THE CITY.
19. BACKFILLING SHALL NOT BEGIN UNTIL LINES ARE APPROVED BY THE RPR. ALL BACKFILL SHALL BE INSTALLED IN ACCORDANCE PLANS AND SPECIFICATIONS.
20. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY THE VARIOUS OWNERS OF FACILITIES AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED PRIOR TO INITIATION OF CONSTRUCTION.

	Aggregate Base	E	East	Max	Maximum
ABC	Aggregate Base Course	Ea	Each	MH	Manhole
AC	Asphaltic Concrete	EL	Elevation	Mi	Mile Or Miles
Agg	Aggregate	Elec, E	Electric Or Electricity	Min	Minimum
Alt	Alternate	ELEV	Elevation	MIRL	Medium Intensity Runway Lights
Appr	Approach	Emb	Embankment	Misc	Miscellaneous
Approx	Approximate	Engr	RPR	Mod	Modify Or Modified
Asph	Asphalt	Ent	Entrance	Mon	Monument
AZ	Azimuth	EP	Edge Of Pavement	Mtl	Material
BC	Begin Curve	Esmt	Easement	N	North
BC	Brass Cap	Est	Estimate	Natl	National
Bdy	Boundary	Ex	Excavation	NAVAID	Navigational Aid
Bgn	Begin	Exp Jt	Expansion Joint	No	Number
Bit	Bituminous	Exst	Existing	Obl	Obliterate
Bldg	Building	Ext	External	OD	Outside Diameter
BM	Bench Mark	FBO	Fixed Base Operator	OFA	Object Free Area
Brg	Bearing	Fed	Federal	OFZ	Obstacle Free Zone
BRL	Building Restriction Line	Fig	Figure	OH	Overhead
BW	Barbed Wire	Fin	Finish	Orig	Original
C&G	Curb And Gutter	Fl	Floor	P/L	Property Line
CL	Center Line	FL	Flow Line	PAPI	Precision Approach Path Indicator
CB	Catch Basin	Fnd	Found	PC	Point Of Curvature
CBC	Concrete Box Culvert	Ft	Feet Or Foot	PCC	Portland Cement Concrete
Cem	Cement	Ftg	Footing	PCCP	Portland Cement Concrete Pvmnt
CFS	Cubic Feet Per Second	Furn	Furnish Or Furnished	Ped	Pedestrian
CG	Cattle Guard	Fut	Future	PI	Point Of Intersection
C-I-P	Cast-In-Place	Fwy	Freeway	Pkwy	Parkway
Cl	Class	G	Gas	Pl	Place
Clr	Clear	Galv	Galvanize Or Galvanized	Prelim	Preliminary
Clv	Culvert	GB	Grade Break	Prj	Project
Co	County	GM	Gas Meter	Prop	Proposed
Comp	Compact Or Compaction	Gnd	Ground	Prt	Protection
Conc	Concrete	Govt	Government	PSI	Pounds Per Square Inch
Cond	Conduit	GPS	Global Positioning System	Pt	Point
Conn	Connection	Gr	Grade	PT	Point Of Tangency
Cont	Continuous	GR	Guard Rail	PVC	Polyvinyl Chloride
Coord	Coordinate	Grb	Grubbing	PVI	Point Of Vertical Intersection
Cor	Corner	Grd	Guard	PVMT	Pavement
Corr	Correction	GV	Gas Valve	Qty	Quantity
Cr	Crown	Hdwl	Headwall	R	Radius
Cst	Construct Or Construction	HIRL	High Intensity Runway Lights	R/W	Right Of Way
Ctr	Center	Hor	Horizontal	RC	Reinforced Concrete
Cu	Cubic	HT, H, h	Height	RCP	Reinforced Concrete Pipe
CWY	Clearway	HW	Head Water	Rd	Road
CY	Cubic Yard(s)	Hwy	Highway	Rdwy	Roadway
D	Degree Of Curve	ID	Inside Diameter	Rebar	Reinforcing Bar
DA	Drainage Area	In	Inch Or Inches	Reconst	Reconstruct
Dbl	Double	Incl	Include, Included Or Inclusive	Ref	Reference
Dcl	Deceleration	Inv	Invert	REIL	Runway End Identifier Lights
Dia	Diameter	Jt	Joint	Reinf	Reinforced Or Reinforcing
DIP	Ductile Iron Pipe	L	Length Or Length Of Curve	Reloc	Relocate, Relocation Or Relocated
Dist	Distance	Lat	Lateral	Rem	Remove
Dr	Drive	Lbs	Pounds	Reqd	Required
Dtl	Detail	Lin	Linear Or Lineal	Resv	Reservation
Dwg	Drawing	LF	Linear Feet	RPR	Resident Project Representative
Dwy	Driveway	Lt	Left	Ret	Retain Or Retaining

- | | |
|---|-----------------------|
|  | FIRE HYDRANT |
|  | WATER VALVE |
|  | SEWER MANHOLE |
|  | SEWER CLEAN OUT |
|  | TELEPHONE RISER |
|  | ELECTRIC EQUIPMENT |
| —TELE— | UNDERGROUND TELEPHONE |
| —UGE— | UNDERGROUND ELECTRIC |
| —SS— | UNDERGROUND SEWER |
| —W— | UNDERGROUND WATER |
| —C— | UNDERGROUND CABLE |
| — | SEDIMENT WATTLES |
| — | GRADING LIMITS |

Taxiway E Realignment - Summary of Quantities

No.	Spec. No.	Item Description	Unit	Quantity	As-Built
Civil					
1	C-100-14.1	Contractor Quality Control Program (CQCP)	LS	1	
2	C-102-5.1	Temporary Air and Water Pollution, Soil Erosion and Siltation Control (SWPPP)	LS	1	
3	C-105-6.1	Mobilization	LS	1	
4	M-005-7.1	Airport Safety and Security	LS	1	
5	M-102-3.1	Contractor Construction Staking and Layout	LS	1	
6	M-104-4.1	Construction Water	MGAL	50	
7	P-101-5.1	Pavement Removal	SY	2,475	
9	P-101-5.3	Removal of Pipe	LF	226	
10	P-101-5.4	Removal of Underdrain	LF	781	
11	P-101-5.5	Removal of Buried Structures	EA	5	
12	P-152-4.1	Unclassified Excavation	CY	2,220	
13	P-152-4.2	Compacted Subgrade	SY	1,930	
14	P-154-5.1	Subbase - (Recycled Pavement Materials 6")	SY	1,845	
15	P-154-5.2	Separation Geotextile	SY	1,845	
16	P-208-5.1	9" Aggregate Base Course	SY	1,770	
17	P-403-8.1	Asphalt Mixture Surface Course	TON	490	
18	P-620-5.1	Marking	SF	1,085	
19	P-620-5.2	Existing Pavement Marking Removal	SF	245	
20	D-701-5.1	24 inch CMP	LF	332	
21	D-701-5.2	24 inch Pipe End Treatment	EA	4	
22	D-705-5.4	Pipe Underdrains, Complete	LF	785	
23	T-901-5.1	Seeding	AC	1.0	
Electrical					
23	L-100-5.1	Remove and Salvage Existing Taxiway Edge Light and Isolation Transformer, Remove Existing Base Can	EA	19	
24	L-100-5.2	Excavate and Remove Existing Conduit and Conductor	LF	1,620	
25	L-100-5.3	Remove Existing Conductors, Conduit to Remain (225 LF)	LS	1	
26	L-100-5.4	Excavate and Remove Existing Concrete Encased Ductbank	LF	260	
27	L-100-5.5	Excavate and Remove Existing Pullbox/Handhole	EA	3	
28	L-100-5.6	Remove and Salvage Existing Taxiway Edge Light - Base Can to Remain	EA	1	
29	L-100-5.7	Remove Existing Lighted Airfield Guidance Sign and Isolation Transformer, Demo Sign Base	EA	3	
30	L-100-5.8	Temporary Airfield Lighting Cable Jumpers	LS	1	
31	L-108-5.1	L-824, Type C, 1/C #8 AWG, 5kV Cable	LF	1,375	
32	L-108-5.2	L-824, Type C, 2/C #8 AWG, 5kV Cable	LF	1,530	
33	L-110-5.1	Single-way, (1) - 2" Conduit, Direct Buried	LF	1,500	
34	L-110-5.2	Single-way, (1) - 2" Conduit, Concrete Encased	LF	180	
35	L-110-5.3	Multiple-way, (4) - 2" Conduit Concrete Encased	LF	90	
36	L-115-5.1	New 2"x3"x3" Handhole with Aircraft-Rated Lid with Spring Assisted Opening	EA	2	
37	L-115-5.2	New Blank Cover on Existing L-867 Base Can	EA	1	
38	L-115-5.3	New L-867B (12" DIA) Junction Can with Blank Cover	EA	1	
39	L-125-5.1	New L-861T(L) LED Taxiway Edge Light and Isolation Transformer On New L-867 Base Can	EA	26	
40	L-125-5.2	Install Salvaged Size 1, 2-Module Airfield Guidance Sign and Isolation Transformer on New Sign Base	EA	2	
41	L-125-5.3	Install Salvaged Size 1, 3-Module Airfield Guidance Sign and Isolation Transformer on New Sign Base	EA	1	
42	L-125-5.4	L-861T(L) LED Taxiway Edge Light and Isolation Transformer (Spare)	EA	2	
43	L-125-5.5	Light Vegetation Control Mats	EA	26	

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Appd

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Taxiway E Realignment
WILLIAMS, AZ U.S.A.

Client/Project

Project No.: 181711365

File Name: 11365-002-G2-GM

Scale: AS NOTED			
<u>RSC</u>	<u>MJS</u>	<u>AC</u>	<u>2025.03.21</u>
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Title

GENERAL NOTES, QUANTITIES AND ABBREVIATIONS

Revision:0 Sheet: 2 of 30

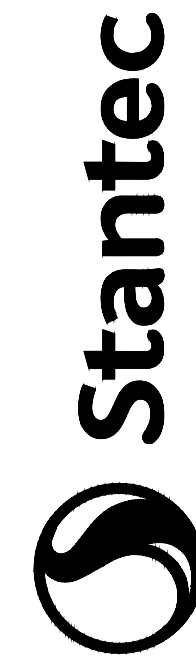
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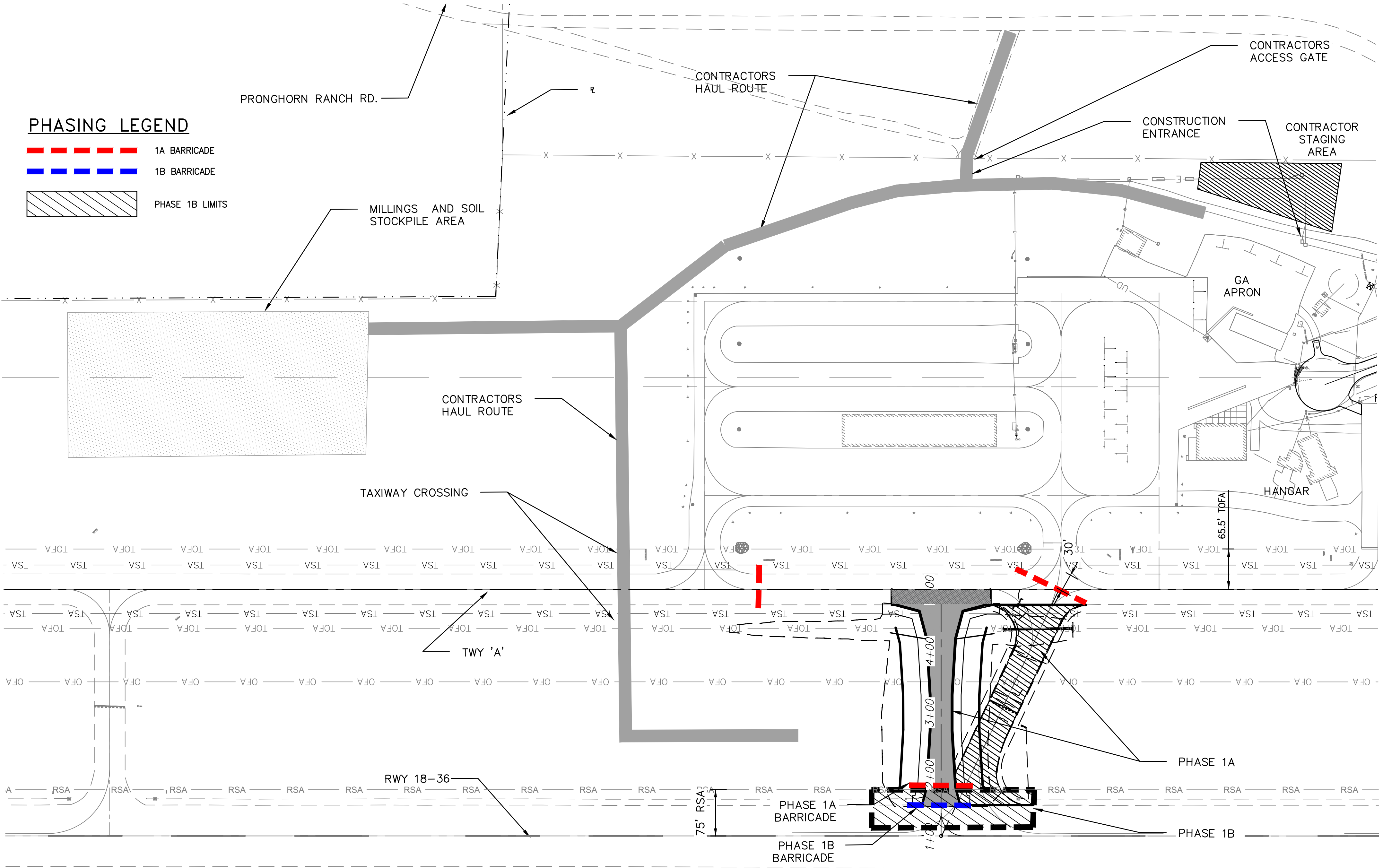
Taxiway E Realignment
WILLIAMS, AZ U.S.A.

G4

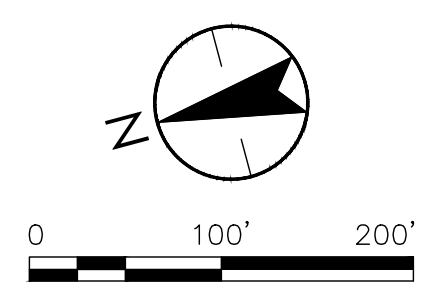


PHASING LEGEND

- 1A BARRICADE
- 1B BARRICADE
- PHASE 1B LIMITS



CONSTRUCTION SAFETY AND PHASING PLAN – PHASE 1A & 1B



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Project No.: 181711365
File Name: 11365-006-G6-SP
Scale: AS NOTED

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YTYTJMMDD	YTYTJMMDD	YTYTJMMDD

Title
CSPP -
PHASE 1A & PHASE 1B

Revision:0 Sheet: 6 of 30
Drawing No.

G6

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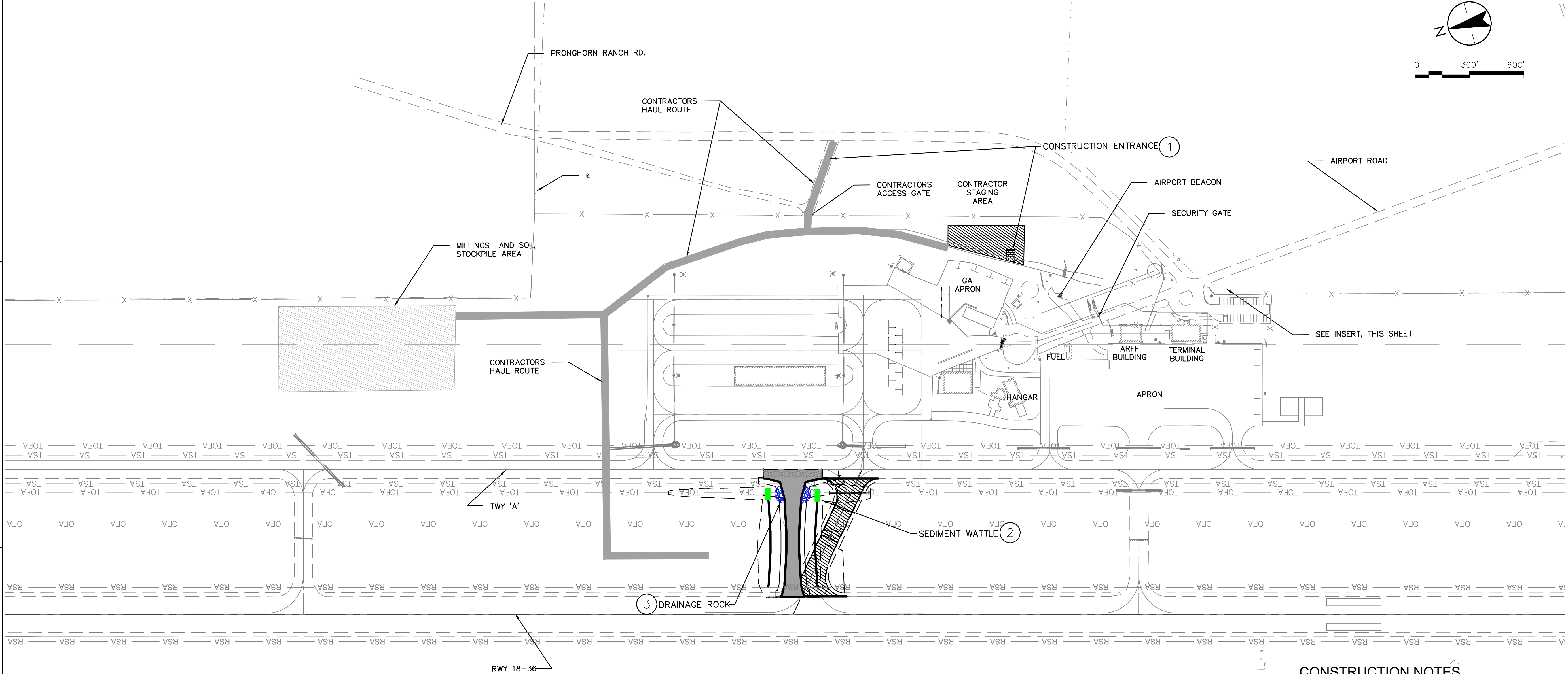
GENERAL NOTES

1. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS NEEDED AND WHEN THE RESIDENT PROJECT REPRESENTATIVE DIRECTS, AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE RUNWAY AND TAXIWAY AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE RESIDENT PROJECT REPRESENTATIVE.
3. SWEEPER SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES. SWEEPER SHALL BE VACUUM TYPE WITH WASH DOWN CAPABILITIES. SWEEPER SHALL BE CAPABLE OF CARRYING 240 GALLONS OF WATER (MIN.) WITH MAIN BROOM AND TWO SIDE BROOMS. SWEEPER SHALL NOT BE EQUIPPED WITH METAL BRISTLES. SWEEPER SHALL BE EQUIVALENT IN PERFORMANCE TO THAT OF THE TYMCO REGENERATIVE AIR SWEEPER MODEL 435/600. SWEEPER NOT MAINTAINING A FOD FREE AREA SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED AT THE SOLE

- EXPENSE OF THE CONTRACTOR AT THE DISCRETION OF THE RESIDENT PROJECT REPRESENTATIVE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF SILT AND MUD AT THE SITE DUE TO CONSTRUCTION ACTIVITY.
 5. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 6. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE OWNER AND THE RESIDENT PROJECT REPRESENTATIVE AFTER EACH RUN-OFF PRODUCING RAINFALL SHALL BE INSPECTED PER THE SWPPP.
 7. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT PROJECT REPRESENTATIVE

- DUE TO UNCOMPLETED GRADING OPERATION OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 9. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED PLANS SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT PROJECT REPRESENTATIVE.
 10. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT, AND SHOULD BE MAINTAINED DURING THE RAINY SEASON.
 11. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING DEMOLITION FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

12. SAND BAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE RESIDENT PROJECT REPRESENTATIVE SO DIRECTS, STORED UNDER COVER TO PROTECT FROM UV DEGRADATION. COORDINATE ALL EROSION CONTROL ITEMS WITH PHASING AND AIRPORT OPERATIONS.
13. UPON COMPLETION OF WORK, CONTRACTOR WILL RE-ESTABLISH THE STAGING AREA TO PRE-CONSTRUCTION CONDITION - OR TO THE ACCEPTANCE OF THE OWNER AND RPR.



CONSTRUCTION NOTES

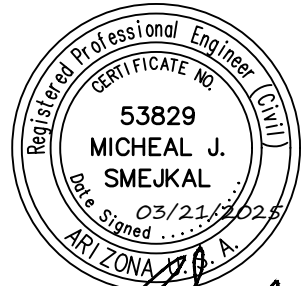
1. PLACE CONSTRUCTION ENTRANCE PER DETAIL ES11, SHEET G8.
2. PLACE SEDIMENT WATTLES PER DETAIL ES3, SHEET G8.
3. PLACE DRAINAGE ROCK PER DETAIL ES2, SHEET G8.



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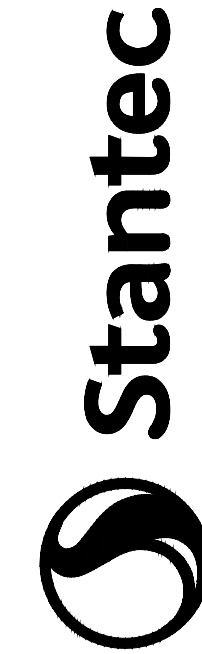
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File Name: 11365-008_9-G8_9-SP		
Scale: AS NOTED		
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2025.03.21		
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Title

TEMPORARY EROSION CONTROL PLAN

Revision:0 Sheet: 7 of 30
Drawing No.

G7



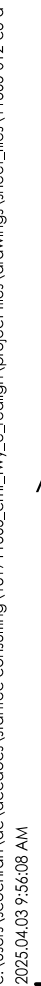
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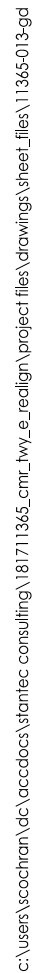
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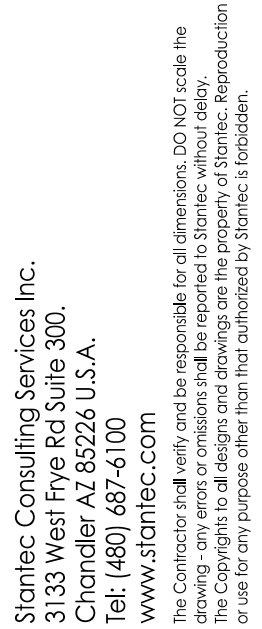
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	GRADING LIMITS
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	NEW MAJOR CONTOURS
	NEW MINOR CONTOURS
	NEW 24" CMP STORM DRAIN
 UD	EXISTING UNDERDRAIN
 UD	NEW UNDERDRAIN
	NEW PCC PAVEMENT
	MILL AND OVERLAY

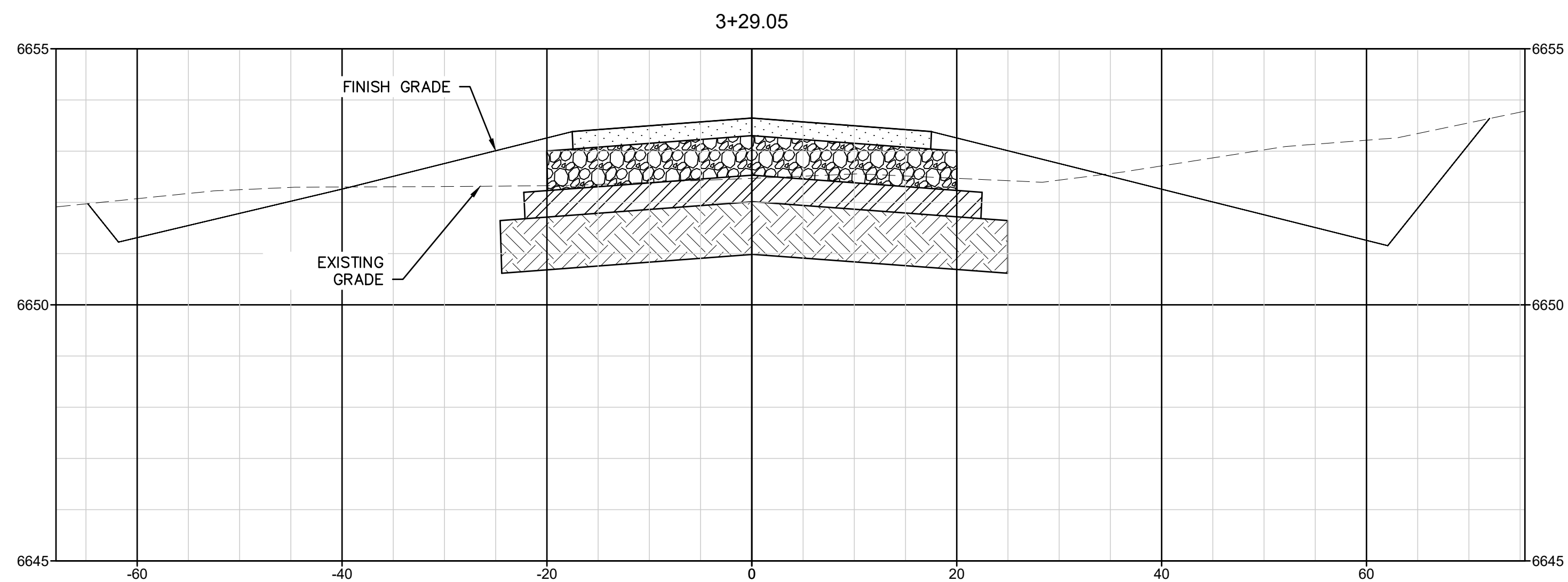
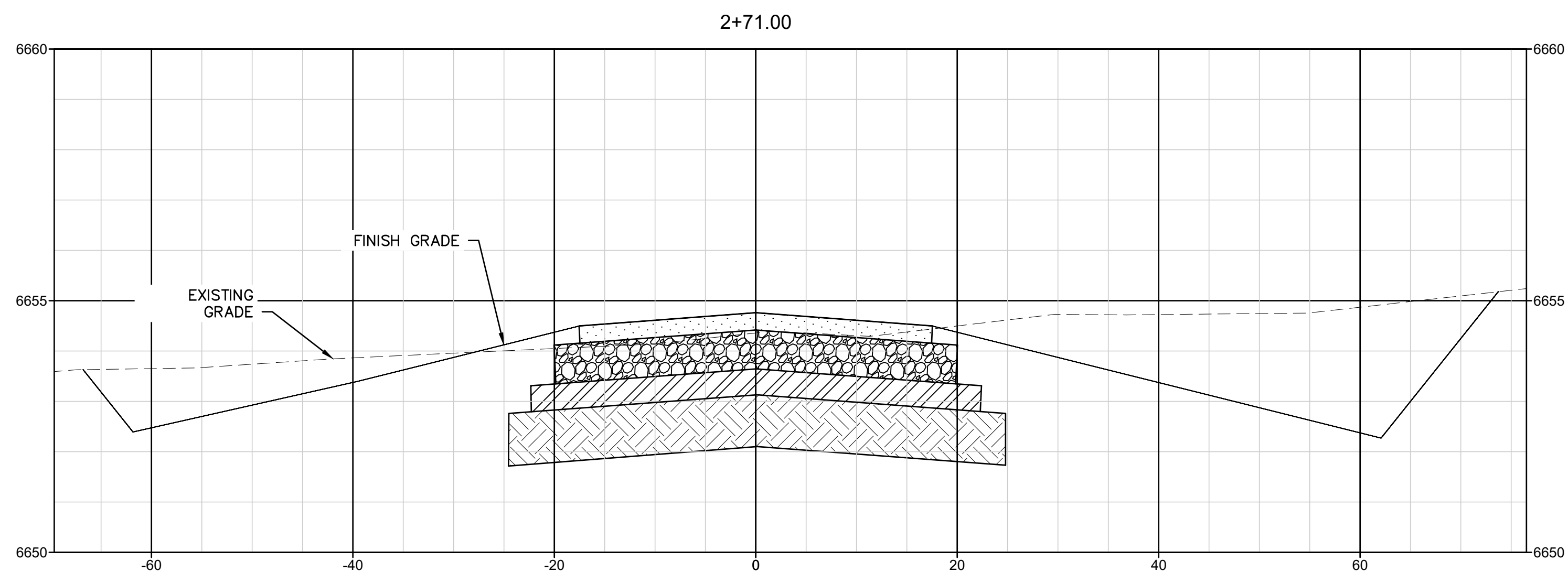
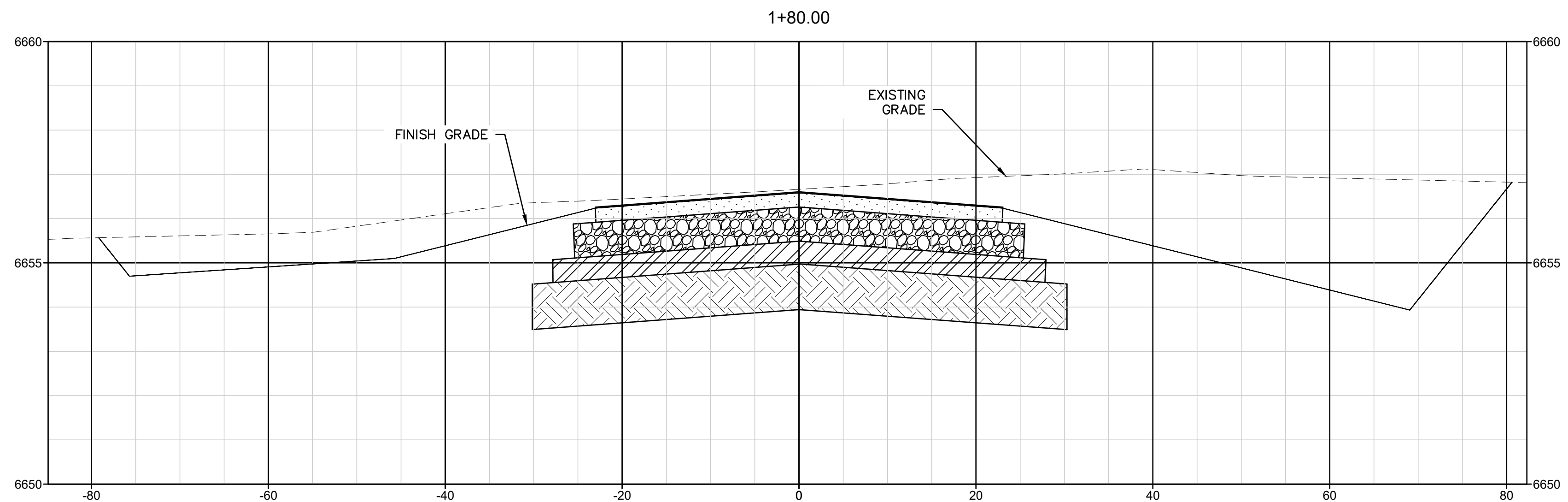
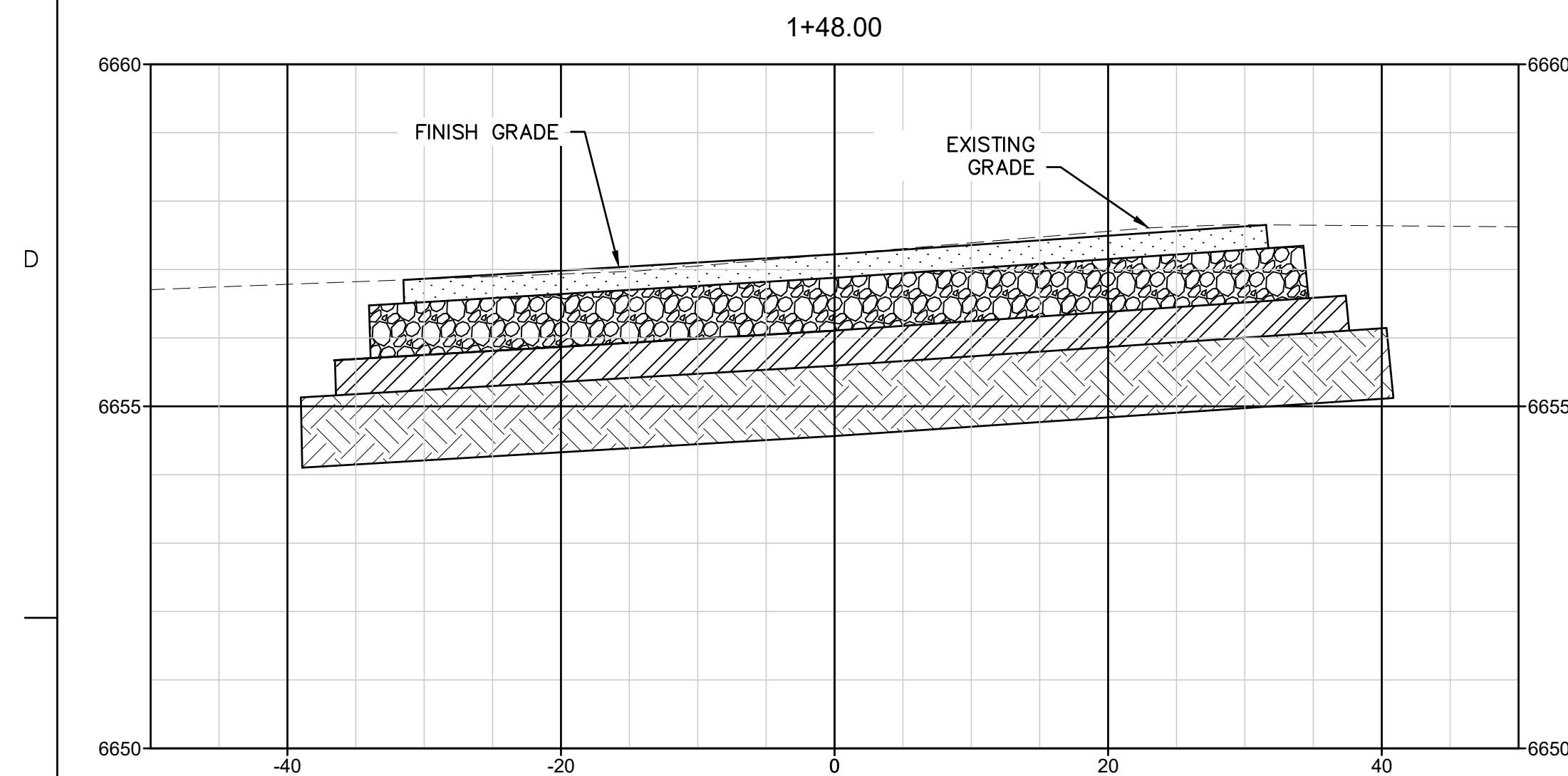
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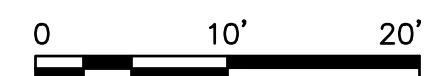
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Drawing No

C4



H: 1"=10'
V: 1"=2'



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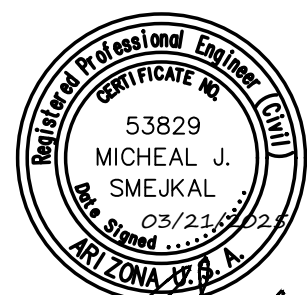


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Project No.: 181711365

File Name: 11365-014_15-C5_C6-XSEC

Scale: AS NOTED

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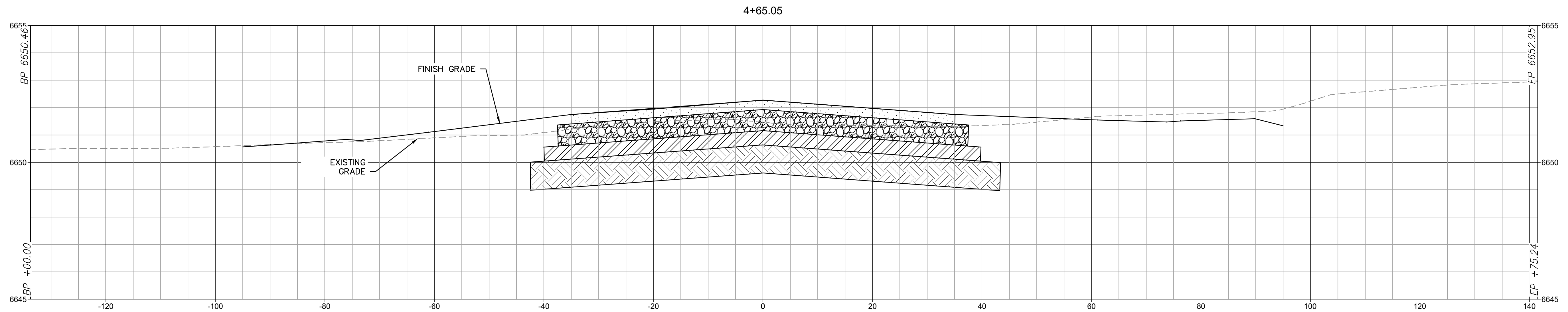
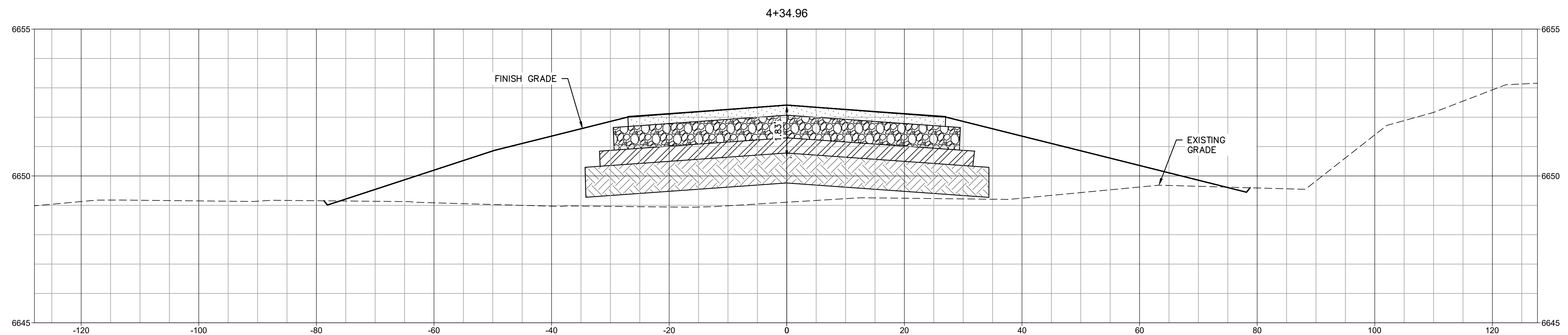
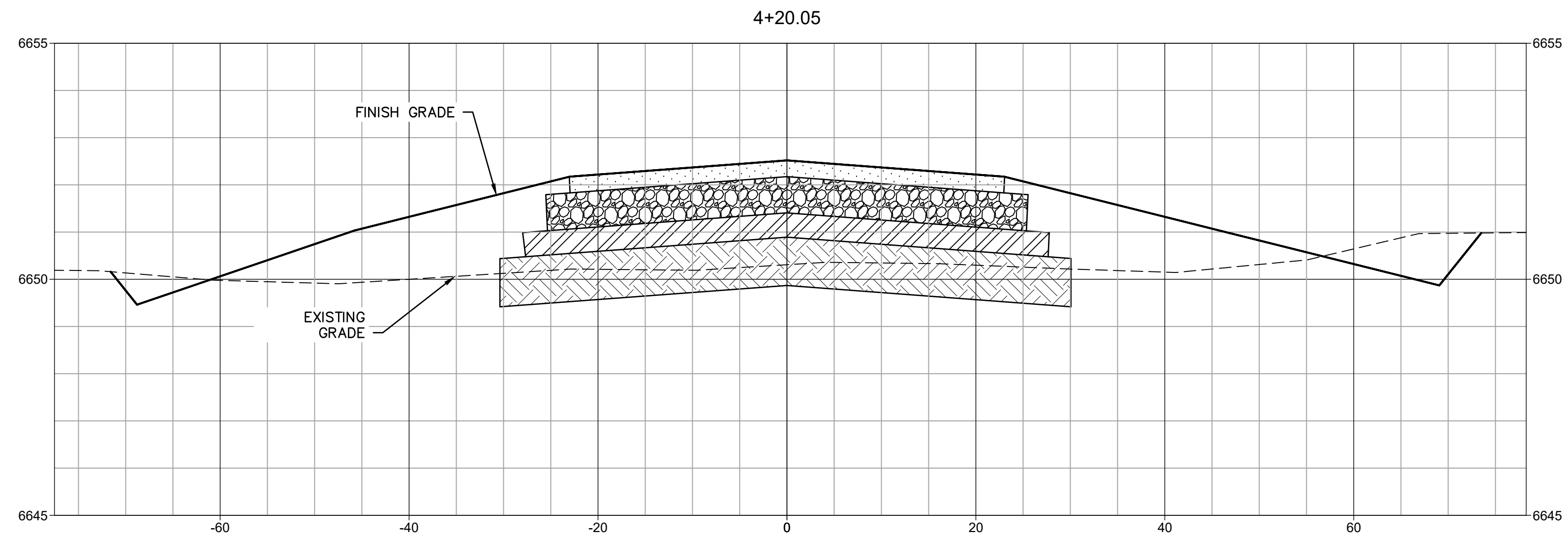
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CROSS SECTIONS
STA 1+48 TO 3+29

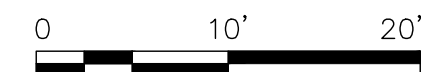
Revision:0 Sheet: 14 of 30

Drawing No.

C6



H: 1"=10'
V: 1"=2'



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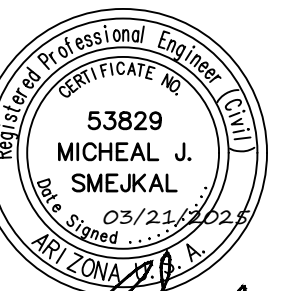


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File Name: 11365-014_15-C5_C6-XSEC

cale:AS NOTED

<u>RSC</u>	<u>BIS</u>	<u>RJZ</u>	<u>2025.03.21</u>
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itle

CROSS SECTIONS
STA 4+20 TO STA 4+65

Revision:0 Sheet: 15 of 30

Drawing No.

C7

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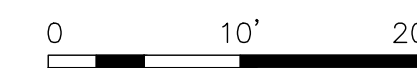
Registered Professional Engineer (Civil)
 CERTIFICATE NO.
 53829
 MICHEAL J.
 SMEJKAL
 Date Signed 03/21/2025
 ART ZONA, P.E.

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WILLIAMS, AZ U.S.A.

Project No.: 181711365			
File Name: 11365-014_15-C5_C6--XSEC			
Scale: AS NOTED			
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Revision:0	Sheet: 16 of 30
Drawing No.	

C8



1/C	SINGLE CONDUCTOR
2/C	TWO CONDUCTORS
BCC	BARE COPPER CONDUCTOR (GROUND)
CCR	CONSTANT CURRENT REGULATOR
CE	CONCRETE ENCASED
CKT	CIRCUIT
DEB	DIRECT EARTH BURIED
DIA	DIAMETER
FAA	FEDERAL AVIATION ADMINISTRATION
GRS	GALVANIZED RIGID STEEL
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
NPI	NON-PAY ITEM
PAPI	PRECISION APPROACH PATH INDICATOR
PVC	POLY-VINYL CHLORIDE
REIL	RUNWAY END INDICATOR LIGHT
SE	SLURRY ENCASED
SGN	SIGN
TYP	TYPICAL
XFMR	TRANSFORMER

(UNLESS OTHERWISE NOTED ON PLANS)

— PVC W/#8-5KV L-824 TYPE "C" CABLE PER INDICATED LIGHTING CIRCUIT.
(QUANTITY AND SIZE AS INDICATED ON PLAN SHEETS)
(/ - INDICATES NUMBER OF CONDUCTORS)

150/5340-18	STANDARDS FOR AIRPORT SIGN SYSTEMS
150/5340-30	DESIGN & INSTALLATION DETAILS FOR AIRPORT VISUAL AIDS
150/5345-7	SPECIFICATION FOR L-824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS
150/5345-26	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)

E1.1	ELECTRICAL LEGEND
E1.2	ELECTRICAL NOTES
E2.1	AIRFIELD ELECTRICAL DEMOLITION PLAN
E3.1	AIRFIELD ELECTRICAL PLAN
E4.1	AIRFIELD GUIDANCE SIGNAGE SCHEDULE
E5.1	ELECTRICAL DETAILS – DUCTBANKS
E5.2	ELECTRICAL DETAILS – GROUNDING
E5.3	ELECTRICAL DETAILS – 5KV CABLE SPLICE
E5.4	ELECTRICAL DETAILS – CONCRETE SIGN BASE
E5.5	ELECTRICAL DETAILS – 2'X3' HANDHOLE
E5.6	ELECTRICAL DETAILS – JUNCTION CAN
E5.7	ELECTRICAL DETAILS – ELEVATED EDGE LIGHT

ORIGINAL SHEET, AND NO.



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Project No.: 181711365

File Name: 23009 E1.1 TE

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ELECTRICAL LEGEND

Revision: 0 Sheet: 19 of 30

Drawing No.

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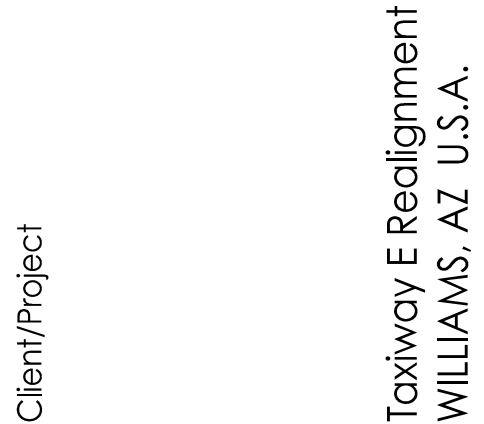


A

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE ENGINEER AS NECESSARY.
2. CONTRACTOR SHALL GIVE 72 HOURS NOTICE PRIOR TO WORKING ON OR AROUND ANY DUCTBANKS, HANDHOLES, ETC.
3. 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 AIRPORT MAINTENANCE SHOP.
4. THE CONTRACTOR SHALL MAINTAIN QUALIFIED PERSONNEL WITH THE APPROPRIATE EQUIPMENT, FOR THE INSTALLATION AND SPLICING OF AIRFIELD LIGHTING. SUCH PERSONNEL SHALL BE CAPABLE OF 60 MINUTE RESPONSE TIME IF THEY ARE NOT ALREADY PRESENT ON THE AIRFIELD.
5. 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 SECTIONS OF DARK COLORED TARP OR DOUBLE-LAYERED BURLAP THAT DOES NOT PERMIT VISIBILITY OF COVERED PORTION OF ARRAY DAY OR NIGHT. COVERS 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.
6. 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.
7. PROVIDE ANY TEMPORARY AIRFIELD CIRCUIT JUMPERS REQUIRED TO MAINTAIN OPERATION OF ALL CIRCUITS AFFECTED BY CONSTRUCTION PRIOR TO START OF DEMOLITION. TEMPORARY CIRCUIT 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.
8. UNCOVER SIGNS AND EDGE LIGHT FIXTURES, REMOVE TEMPORARY JUMPERS, AND VERIFY OPERATION AT THE END OF PROJECT.

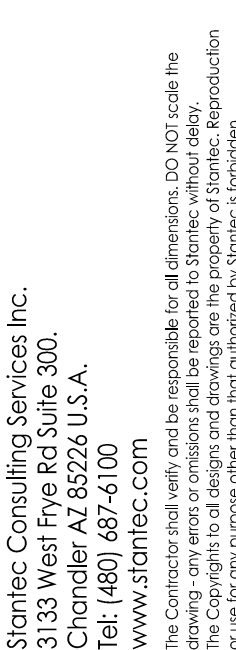
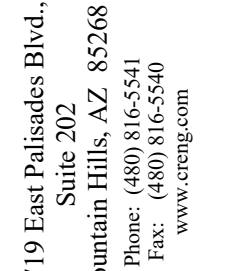
1. GROUNDS RODS AND COUNTERPOISE WIRE ARE CONSIDERED INCIDENTAL TO FIXTURE AND CONDUIT INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND CONSTRUCTION WITH CIVIL CONTRACTOR TO REDUCE CONFLICTS THAT AFFECT CONSTRUCTION PHASING AND SCHEDULING.
3. CONTRACTOR SHALL FIELD VERIFY ALL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

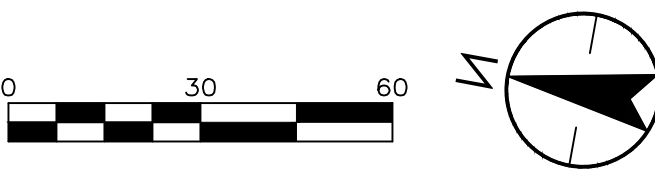
1. WITHIN AREAS OF DEMOLITION, AND AS OTHERWISE SHOWN, CONTRACTOR SHALL REMOVE IDENTIFIED LIGHT FIXTURES, BASES, ISOLATION TRANSFORMERS, HAND HOLES AND OTHER INDICATED ITEMS.
2. CABLE REMOVAL
 - A. DIRECT BURIAL: REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING.
 - B. IN CONDUIT: REMOVE COMPLETELY BETWEEN NEAREST BASES, HANDHOLES OR MANHOLES.
 - C. RUNWAYS: REMOVE AND REPLACE FOR RECONNECTION INCREMENTALLY DURING EACH SHIFT TO MAINTAIN CIRCUIT OPERATION AS REQUIRED BY AIRPORT.
3. AT INDICATED DEVICES TO BE REMOVED OR IN DEMOLITION AREAS INDICATED, REMOVE ALL CONDUCTORS BACK TO NEAREST FIXTURE BASE OR HANDHOLE OUTSIDE DEMOLITION AREA.
4. FIXTURES, 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.
5. CONTRACTOR SHALL VERIFY EQUIPMENT AND CABLE DESIGNATIONS AND STATUS PRIOR TO REMOVAL OR DISCONNECTING.
6. ALL REMOVED LIGHT FIXTURES, BASES, ISOLATION TRANSFORMERS, AND SIGNS SHALL BE SALVAGED AND DELIVERED TO AIRPORT OPERATIONS AND MAINTENANCE. ALL OTHER REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL ORDINANCES.
7. 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.
8. CONTRACTOR SHALL BE REQUIRED TO HAVE A PRIVATE "ON-SITE" UTILITY LOCATING COMPANY AND POTHOLE EXISTING UTILITY LINES AS NEEDED.



Title
ELECTRICAL NOTES

E1.2





8 REMOVE AND SALVAGE EXISTING AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER – REMOVE EXISTING CONCRETE SIGN BASE (3 TOTAL)

8 APPROXIMATE SPLICE POINT OF EXISTING
CONDUIT AND CONDUCTOR

3 PAP

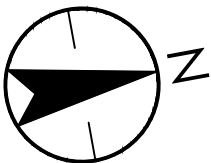
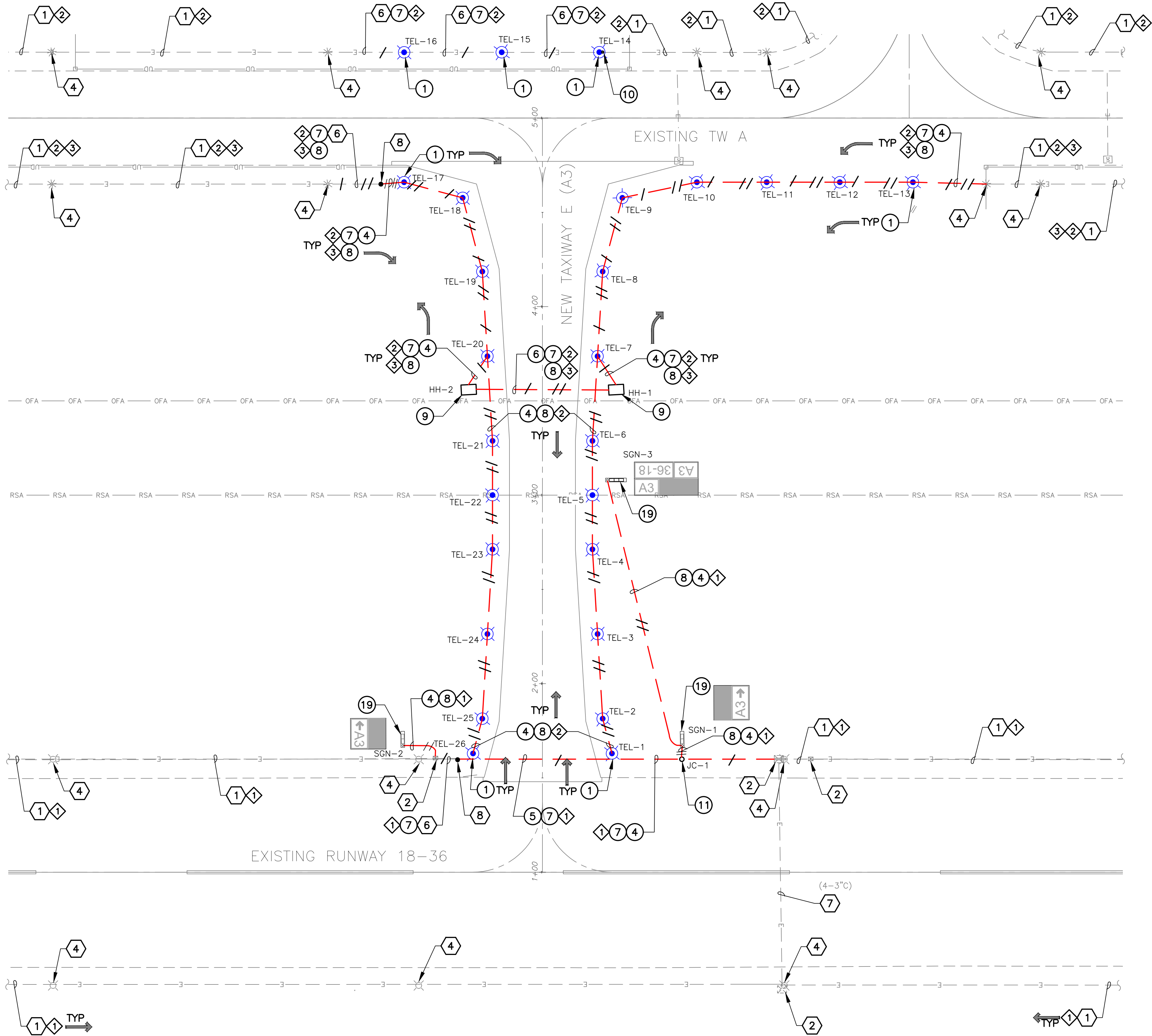
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E2.1

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ORIGINAL SHEET - ANSI/C



○ CONSTRUCTION NOTE ○

- 1 NEW L-861T(L) LED TAXIWAY EDGE LIGHT (24") AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN (26 TOTAL)
- 4 1-2"C DEB (1,241 LF)
- 5 1-2"C CE (95 LF)
- 6 4-2"C CE (90 LF)
- 7 NEW 1/C, #8 5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE (1,195 LF)
- 8 NEW 2/C, #8 5KV L-824, TYPE "C" AIRFIELD LIGHTING CABLE (1,530 LF)
- 9 NEW 2'x3'x3' HANDHOLE WITH AIRCRAFT-RATED LID WITH SPRING ASSISTED OPENING (2 TOTAL)
- 10 NEW BLANK COVER ON EXISTING L-867 BASE CAN (1 TOTAL)
- 11 NEW L-867B (12" DIA.) JUNCTION CAN WITH BLANK COVER (1 TOTAL)
- 19 INSTALL SALVAGED AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE. (3 TOTAL)

◇ REFERENCE NOTE ◇

- 1 EXISTING CONDUIT AND CONDUCTOR
- 2 EXISTING HANDHOLE/PULLBOX
- 3 EXISTING AIRFIELD GUIDANCE SIGN
- 4 EXISTING ELEVATED LIGHT FIXTURE
- 5 EXISTING JUNCTION CAN
- 6 EXISTING CONDUIT
- 7 EXISTING DUCTBANK
- 8 APPROXIMATE SPLICE OF POINT OF EXISTING CONDUIT AND COUNTERPOISE

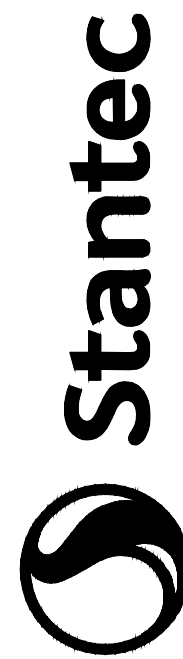
◇ CIRCUIT IDENTIFICATION ◇

- 1 RUNWAY
- 2 TAXIWAY
- 3 PAPI

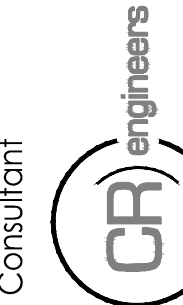
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Title
AIRFIELD ELECTRICAL
PLAN

Revision: 0 Sheet: 22 of 30
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E3.1

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H.A. CLARK MEMORIAL AIRPORT AIRFIELD GUIDANCE SIGN SCHEDULE											
SIGN NUMBER	CIRCUIT	SIGN WITH FACE DESIGNATIONS	FACE A MESSAGE	FACE B MESSAGE	FACE A COLOR	FACE B COLOR	SIZE	STYLE	CLASS	SHEET NUMBER	SCOPE OF WORK
SGN-1	RWY 36-18	A  B 	EXISTING							E3.1	INSTALL SALVAGED AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE.
SGN-2	RWY 36-18	A  B 	EXISTING							E3.1	INSTALL SALVAGED AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE.
SGN-3	RWY 36-18	A   B  	EXISTING							E3.1	INSTALL SALVAGED AIRFIELD GUIDANCE SIGN AND ISOLATION TRANSFORMER ON NEW SIGN BASE.

TAXIWAY EDGE LIGHTS

NUMBER	STATION	OFFSET
TEL-1	01+62.99	36.85' RT
TEL-2	01+81.45	31.93' RT
TEL-3	02+26.36	29.21' RT
TEL-4	02+71.27	26.50' RT
TEL-5	03+00.02	26.50' RT
TEL-6	03+28.77	26.50' RT
TEL-7	03+73.69	29.21' RT
TEL-8	04+18.60	31.93' RT
TEL-9	04+57.69	42.35' RT
TEL-10	04+65.98	81.92' RT
TEL-11	04+65.98	118.96' RT
TEL-12	04+65.98	157.75' RT
TEL-13	04+65.98	196.54' RT
TEL-14	05+34.95	30.14' RT
TEL-15	05+34.92	21.64' LT
TEL-16	05+34.89	73.41' LT
TEL-17	04+65.98	73.44' LT
TEL-18	04+57.69	42.35' LT
TEL-19	04+18.60	31.93' LT
TEL-20	03+73.69	29.22' LT
TEL-21	03+28.77	26.50' LT
TEL-22	03+00.02	26.50' LT
TEL-23	02+71.27	26.50' LT
TEL-24	02+26.36	29.22' LT
TEL-25	01+81.45	31.93' LT
TEL-26	01+62.99	36.85' LT

AIRFIELD GUIDANCE SIGNS DATA TABLE
(SEE NOTE 2)

SGN-#	STATION	OFFSET
SGN-1	01+68.23	74.13' RT
SGN-2	01+68.23	74.13' LT
SGN-3	03+08.01	35.50' RT

HANDHOLE DATA TABLE

HH-#	STATION	OFFSET	SIZE
HH-1	03+55.95	39.13' RT	2' X 3'
HH-2	03+55.95	39.13' LT	2' X 3'

JUNCTION CAN DATA TABLE

JC-#	STATION	OFFSET
JC-1	01+59.90	73.95' RT

EQUIPMENT LOCATION STANDARDS TABLE

EQUIPMENT TYPE	LOCATION STANDARD	NOTES
SIZE 1 AIRFIELD GUIDANCE SIGNS	10' – 20' (SEE NOTE 2)	MEASURE TO SIGN EDGE CLOSEST TO TAXIWAY EDGE/OUTER TAXIWAY EDGE MARKING (SEE FAA AC 1505340-18)
HANDHOLE		STATION/OFFSET GIVEN IS CENTER OF HANDHOLE LID
JUNCTION CAN		STATION/OFFSET GIVEN IS CENTER OF JUNCTION CAN LID
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

1. EQUIPMENT NUMBERS SHOWN ARE FOR CONSTRUCTION REFERENCE. COORDINATE WITH AIRPORT MAINTENANCE FOR LABELING OF ALL EQUIPMENT.
2. CONTRACTOR TO ENSURE AIRFIELD GUIDANCE SIGN LOCATIONS FALL WITHIN FAA SPECIFICATIONS. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF AIRFIELD GUIDANCE SIGN AND BASE IS BEING PERFORMED, WITH ENGINEER BEFORE SIGN BASE IS INSTALLED.
3. CONTRACTOR TO ENSURE NEW TAXIWAY EDGE LIGHT LOCATIONS DO NOT EXCEED 10 FEET FROM EDGE OF FULL STRENGTH PAVEMENT/OUTER EDGE OF TAXIWAY EDGE MARKING AND ARE IN-LINE WITH EXISTING TAXIWAY EDGE LIGHTING IF APPLICABLE – PERFORM FIELD ADJUSTMENTS AS NECESSARY. CONTRACTOR SHALL CONFIRM ANY DIFFERENCES OF MEASUREMENTS/DISCREPANCIES, WHEN SURVEY OF LIGHT LOCATIONS IS BEING PERFORMED, WITH ENGINEER BEFORE LIGHT BASE IS INSTALLED.
4. OFFSETS GIVEN FOR EACH EQUIPMENT TYPE ARE MEASURED FROM NEAREST TAXIWAY CENTERLINE (ALIGNMENT).



ALL DIMENSIONS ARE MINIMUM

NOTES

1. SEE CIVIL SHEETS FOR PAVEMENT STRUCTURAL SECTION

1. PROVIDE PULL STRING IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES.
2. P-610 CONCRETE ENCASE UNDER PAVEMENT AND DRAINAGE CHANNELS AS INDICATED ON PLANS.
3. INSTALL A #6 BARE COPPER (Cu) COUNTERPOISE ABOVE EACH DUCT ASSEMBLY FROM HANDHOLE-TO-HANDHOLE AND EXOTHERMICALLY WELD TO GROUND RODS AT EACH HANDHOLE.
4. INSTALL LIGHTING SERIES CIRCUITS AS FOLLOWS:
 - A. ONE CIRCUIT (1 OR 2 CONDUCTORS) PER 2'C. LIMIT 4'C TO NO MORE THAN (8) CONDUCTORS.
 - B. START INSTALLATION IN BOTTOM CONDUITS OF DUCT ARRAY, LEAVING THE UPPER CONDUITS EMPTY.
5. ALL UNDERGROUND CONDUITS SHALL MAINTAIN A 12" (MIN.) SEPARATION FROM ALL OTHER (EXISTING OR NEW) UNDERGROUND FACILITIES (I.E. WATER, SEWER, AND GAS LINES, INCLUDING BOTH PUBLIC AND PRIVATE), UNLESS NOTED OTHERWISE ON DRAWINGS.
6. CONDUIT IN DUCTBANK(S) ARE TO BE STACKED NO MORE THAN FOUR (4) CONDUITS. IF MORE CONDUITS ARE NEEDED, THE WIDTH OF THE TRENCH IS TO BE INCREASED.

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Project No.: 181711365

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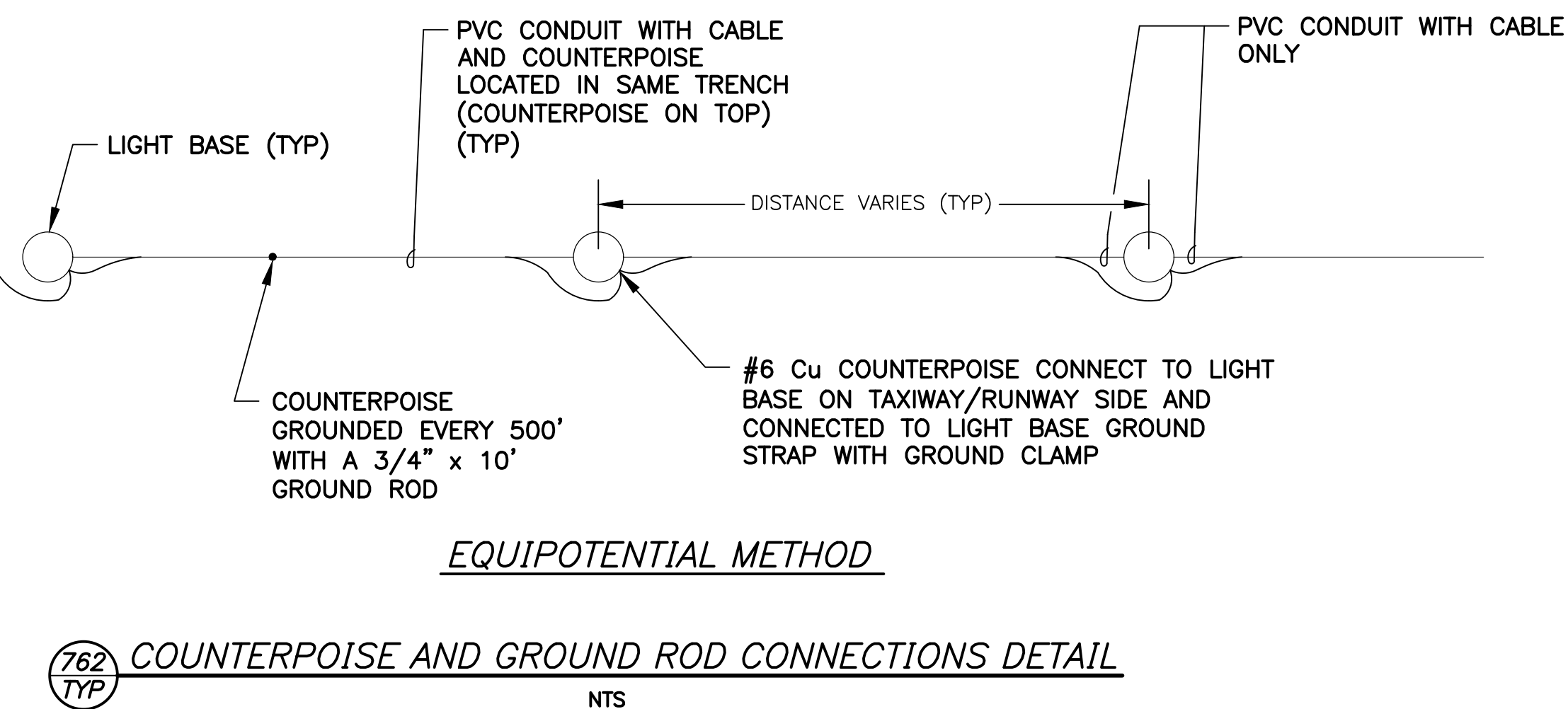
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ELECTRICAL DETAILS - DUCTBANKS

Revision: 0 Sheet: 24 of 30

Drawing No.

E5.1



1. COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
2. WHERE POSSIBLE, NEW COUNTERPOISE SYSTEM SHALL BE CONNECTED TO ANY EXISTING COUNTERPOISE SYSTEM ENCOUNTERED.
3. GROUNDING ELECTRODES INSTALLED AS PART OF THE COUNTERPOISE SYSTEM SHALL BE SPACED AT DISTANCES NO GREATER THAN 500 FT. (MAX).
4. REFER TO CONDUIT/DUCT BANK DETAILS FOR DEPTHS.





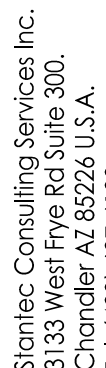
1. PROVIDE MALE AND FEMALE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR IN EACH BASE, HANDHOLE, OR MANHOLE TO ALLOW ISOLATION OF HOMERUN CIRCUIT, NO STRAIGHT-THROUGH ALLOWED.
2. ALL CABLE ENDS SHALL BE PREPARED WITH THE USE OF A TAPERING TOOL SPECIFICALLY DESIGNED FOR USE WITH L-824 CABLES.
3. PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED RATCHETING TYPE CRIMPING TOOL.
4. 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 AND EXISTING CABLES AND COORDINATE WITH TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.
5. INSTALL SCOTCH 33+ VINYL ELECTRICAL TAPE ON CONNECTION AFTER PULLING SLEEVE OVER COMPLETE KIT.
6. THERE SHALL BE NO SPLICES BETWEEN LIGHTS, ONLY IN BASES OR HANDHOLES.
7. PROVIDE AND INSTALL NON-CONDUCTIVE CIRCUIT IDENTIFICATION TAGS ATTACHED TO EACH SIDE OF ALL CONNECTOR KITS.
8. ON THE CABLES FOR THE RUNWAY CIRCUIT, TAPE FROM THE BACK END OF THE CONNECTOR KIT ONTO CABLE FOR 3" EACH, RED OR WHITE CIRCUIT TAPE FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.
9. 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 CIRCUIT TAPE FOR SIGNS, BLUE ONLY CIRCUIT TAPE FOR TAXIWAY EDGE LIGHTS, FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.

925 TYPICAL 5KV CABLE SPLICE
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E5.3



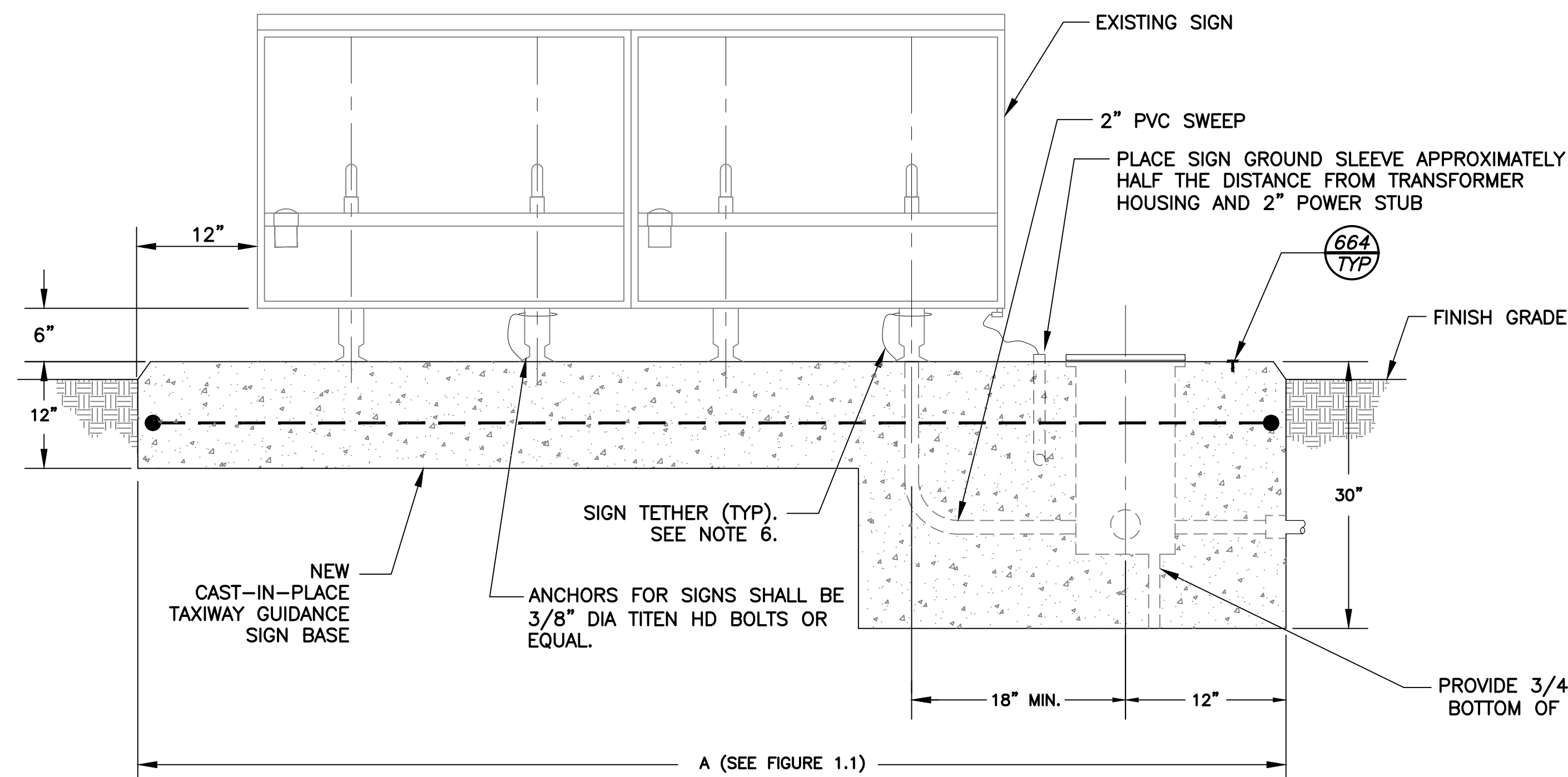
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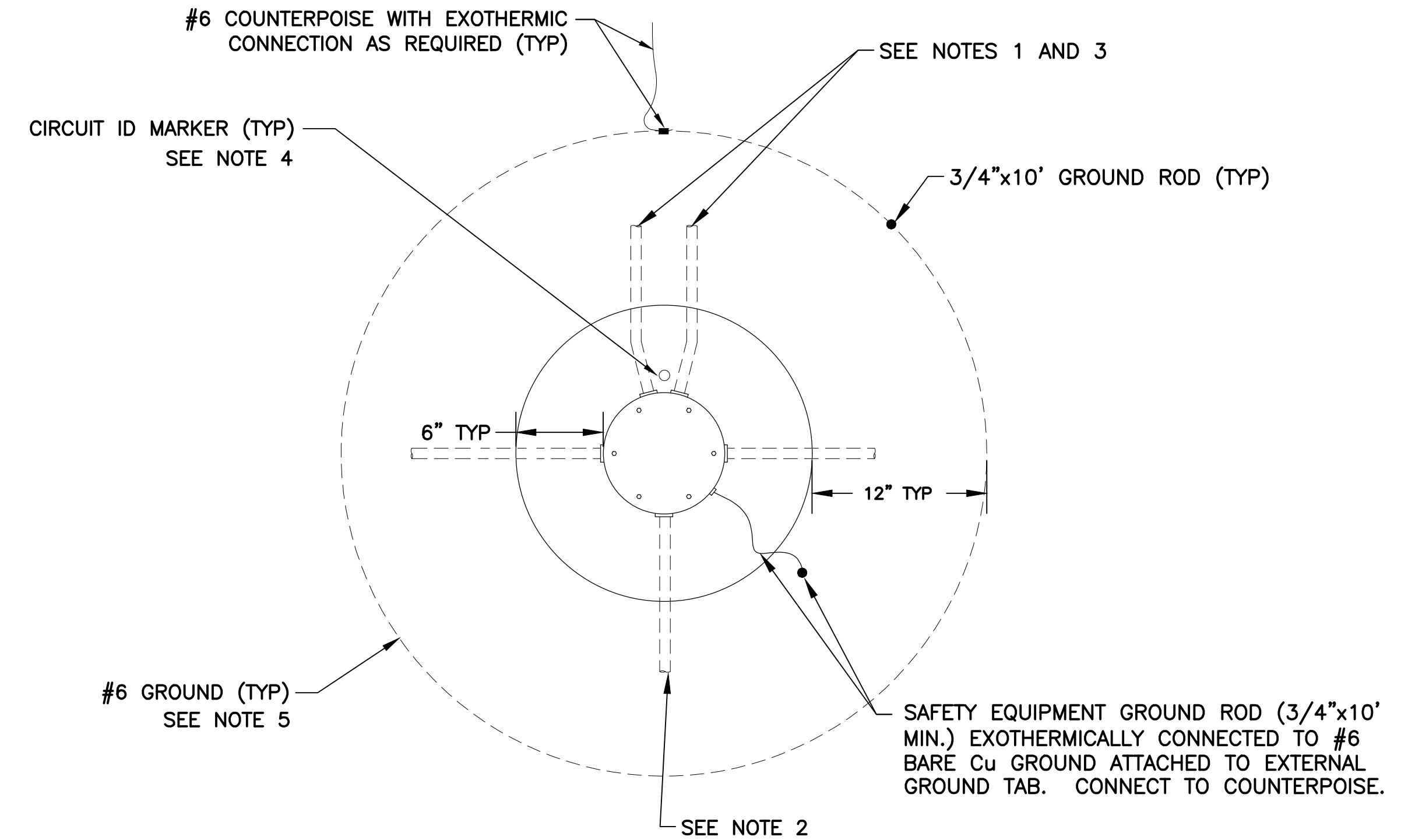
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NOTES:

- GENERAL NOTES:

1. 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 CAN.
2. 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.
3. 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.
4. CONTRACTOR SHALL INSTALL L-823 CONNECTORS IN A CONSISTENT MANNER FROM JUNCTION CAN TO THE NEXT. EACH SEGMENT OF #8 L-824C, 5KV CABLE IN THE AIRFIELD SHALL HAVE A MALE L-823 CONNECTOR ON ONE END AND A FEMALE CONNECTOR ON THE OTHER.



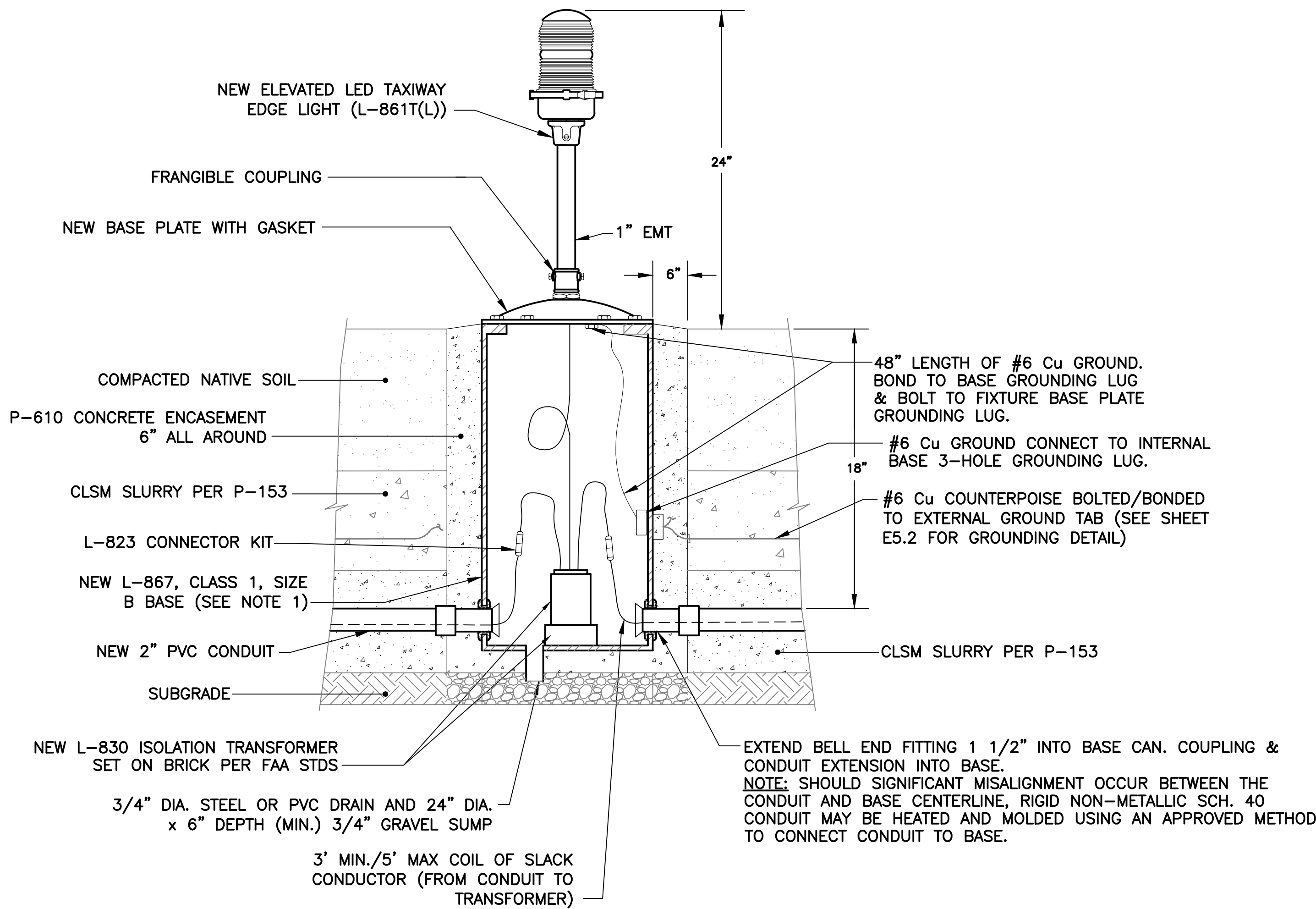
- NOTES:

1. 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.
2. ONE-PIECE SONOTUBES OF CORRECT DIAMETER FOR 6" MIN. CONCRETE SURROUND MAY BE UTILIZED FOR ONE-TIME USE ONLY. ROUND COLUMN FORMS SPECIFICALLY DESIGNED FOR MULTIPLE USE MAY BE USED.
3. CONTRACTOR SHALL SUBMIT ON SPECIFIC PRE-CAST MEANS AND METHODS FOR ENGINEER REVIEW AND APPROVAL.
4. REFER TO ELEVATED TAXIWAY AND/OR RUNWAY GUARD LIGHT FIXTURE AND COUNTERPOISE INSTALLATION DETAILS.



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ORIGINAL SHEET - ANS/CL



901 ELEVATED EDGE LIGHT DETAIL
TYP NTS

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



Call 811 or click Arizona811.com

Client/Project

Taxiway E Realignment
WILLIAMS, AZ U.S.A.

Project No.: 181711365

File Name: 23009 E5.7 - TAXIWAY LIGHT.TE

Scale: NTS

JBW	RD	CA	2025.03.21
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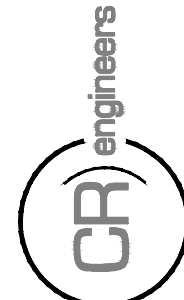
ELECTRICAL DETAILS -
ELEVATED EDGE LIGHT

Revision: 0 Sheet: 30 of 30

Drawing No.

E5.7

Consultant



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Permit/Seal

