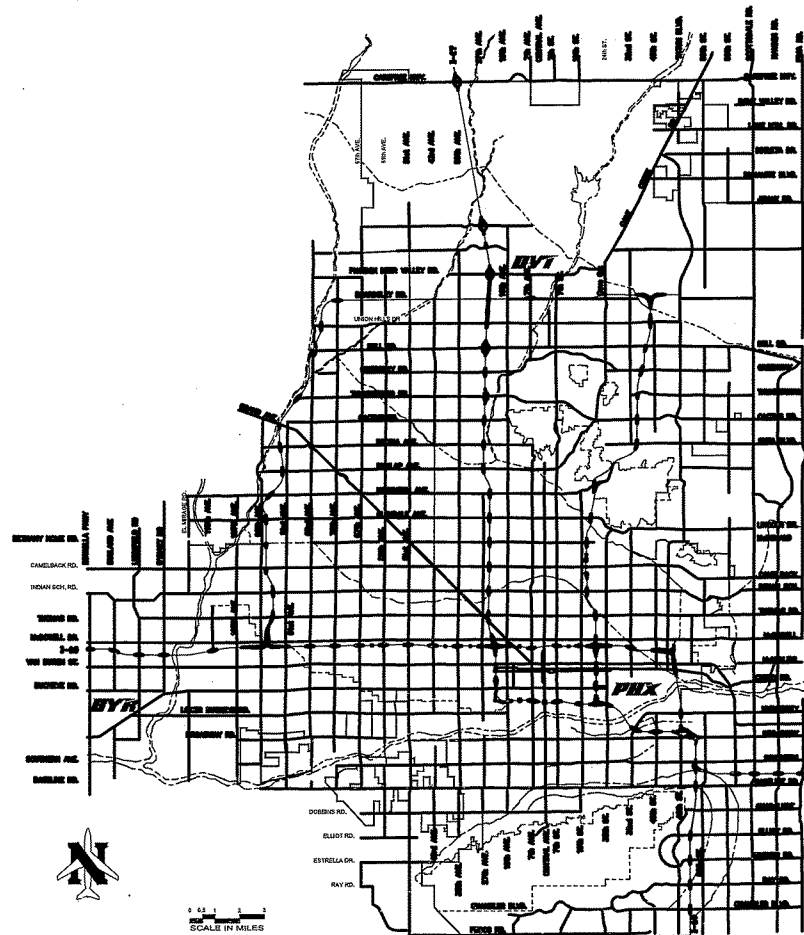


# CITY OF PHOENIX AVIATION DEPARTMENT DESIGN & CONSTRUCTION SERVICES



PROJECT NAME: DEER VALLEY BLAST PADS  
 ADDRESS: PHOENIX DEER VALLEY AIRPORT  
 PROJECT NUMBER: AV 31000094  
 ADOT NO. E1S1P01C



N  
 SCALE IN MILES  
 Vicinity Map

**Stantec**  
 Stantec Consulting Services Inc.  
 3311 West Frye Road, Suite 300  
 Chandler, AZ 85226



APPROVALS  
  
 DEPUTY AVIATION DIRECTOR  
 DESIGN & CONSTRUCTION SERVICES DIVISION  
  
 CITY ENGINEER

02-01-2023  
 DATE  
 2/2/2023  
 DATE

"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 THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

MAYOR  
 KATE GALLEGO

CITY COUNCIL

DISTRICT NO. 1 ANN O'BRIEN	DISTRICT NO. 5 BETTY GUARDADO
DISTRICT NO. 2 JIM WARING	DISTRICT NO. 6 SAL DICICCIO
DISTRICT NO. 3 DEBRA STARK	DISTRICT NO. 7 YASSAMIN ANSARI
DISTRICT NO. 4 LAURA PASTOR	DISTRICT NO. 8 CARLOS GARCIA

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AV 31000094 , ADOT No. E1S1P01C

PHX DVT EYB  
 CITY OF PHOENIX AVIATION DEPARTMENT

**GENERAL NOTES**

1. THE INFORMATION ON THESE DRAWINGS CONCERNING THE TYPE, SIZE AND LOCATION OF UTILITIES HAS BEEN SHOWN BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES IN PLACE UNLESS OTHERWISE NOTED OR SPECIFIED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. THE RPR WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.
3. THE CONTRACTOR SHALL CALL BLUE STAKE (602) 263-1100 FOR THE LOCATION OF ALL UNDERGROUND UTILITIES TWO (2) WORKING DAYS BEFORE DIGGING.
4. ALL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS AS DESCRIBED IN THE SPECIAL PROVISION SPECIFICATIONS AND THE CIVIL TECHNICAL CONSTRUCTION SPECIFICATIONS.
5. LANDSIDE TRAFFIC CONTROL SHALL USE THE LATEST VERSION OF THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
6. EXTREME CAUTION IS TO BE USED WHEN OPERATING EQUIPMENT AROUND LOCATIONS OF HWY VOLTAGE LINES.
7. EXISTING VEGETATION AND DEBRIS MAY NOT BE ACCURATELY/FULLY DEPICTED ON THESE PLANS. VEGETATION AND/OR DEBRIS SHALL BE CLEARED, GRUBBED, REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS AND PRIOR TO THE START OF EXCAVATION OPERATIONS UNLESS OTHERWISE APPROVED BY THE RPR.
8. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE CITY OF PHOENIX AVIATION DEPARTMENT ON THE PRECISE LOCATION AND LIMIT OF THE STAGING AREA AND OFFICE AREA, AS WELL AS ANY SPECIAL REQUIREMENTS FOR FENCING, SECURITY OR ACCESS.

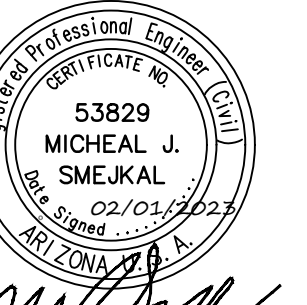
**OPERATIONAL NOTES**

1. THE AIRPORT WILL BE OPEN AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION UNLESS OTHERWISE AUTHORIZED. WORK OPERATIONS AND TRAFFIC COORDINATION WITH THE AIRPORT MANAGER IS REQUIRED. ALL DIRECTION SHALL COME FROM THE AIRPORT MANAGER OR RPR. NO COORDINATION OR DIRECTION FROM OR TO THE AIRPORT TENANTS WILL BE ACCEPTABLE.
2. ALL TRUCKS HAULING BORROW OR WASTE EXCAVATION SHALL BE COVERED.
3. THE CONTRACTOR SHALL MAINTAIN POSITIVE DUST CONTROL DURING ALL PHASES OF THIS CONTRACT. IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
4. THE CONTRACTOR IS REQUIRED TO OBTAIN A HAUL PERMIT PRIOR TO HAULING TO OR FROM THE STOCK PILE SITE.
5. AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY AT ALL TIMES.
6. THE CONTRACTOR SHALL REMAIN WITHIN THE WORK AREAS AND NOT STRAY AROUND THE AIRPORT AIRSIDE AREAS.
7. THE CONTRACTOR SHALL MAINTAIN SECURITY AT ALL ACCESS POINTS. ACCESS GATES SHALL BE LOCKED AT THE END OF EACH CONSTRUCTION DAY.
8. STOCKPILED MATERIAL SHALL BE STORED IN THE CONTRACTOR STAGING AREA. AS SHOWN ON THE PLANS
9. CONTRACTOR CONSTRUCTION EQUIPMENT SHALL BE STORED IN THE DESIGNATED CONTRACTOR STAGING AREA. STORAGE OF CONSTRUCTION EQUIPMENT IN THE RUNWAY/SAFETY AREA IS NOT PERMITTED.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF FAA ADVISORY CIRCULAR 150/5370-10, STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS. WHEREVER APPLICABLE, ITEMS OF WORK AND MATERIALS NOT COVERED BY FAA SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ALL CURRENT STATE AND LOCAL SPECIFICATIONS AND STANDARD DETAILS AS REQUIRED BY THE RPR.
11. THE RPR SHALL BE NOTIFIED 48 HOURS PRIOR TO STARTING ANY NEW PHASE OF CONSTRUCTION.
12. CONSTRUCTION ACTIVITIES ON THE AIRPORT WILL NOT BE PERMITTED WITHIN THE RUNWAY & TAXIWAY OBJECT FREE AREA WITHOUT PRIOR APPROVAL OF THE AIRPORT MANAGER.
13. 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.
14. UTILITY LOCATIONS SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD DETERMINE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES WITHIN THE WORK AREA PRIOR TO COMMENCEMENT OF ACTIVITIES IN THAT AREA.
15. ANY AREA IN WHICH A CHANGE OF ELEVATION OF 3 (THREE) INCHES OR MORE EXISTS WITHIN THE RUNWAY AND SAFETY AREA DURING CONSTRUCTION SHALL BE DELINEATED WITH LIGHTED BARRICADES.
16. DURING ANY AUTHORIZED CLOSURES THE CONTRACTOR WILL WAIT TO COMMENCE OPERATIONS UNTIL GIVEN CLEARANCE BY AIRPORT OPERATIONS.
17. THE MEANS AND METHODS OF EXCAVATION OF MATERIAL SHALL BE APPROVED BY THE CITY OF PHOENIX AND THE RPR.

**ABBREVIATIONS**

AB	AGGREGATE BASE	CONN	CONNECTION	FWY	FREEWAY	P/L	PROPERTY LINE	S	SOUTH
ABC	AGGREGATE BASE COURSE	CONT	CONTINUOUS	G	GAS	PAPI	PRECISION APPROACH PATH INDICATOR	SALV	SALVAGE
AC	ASPHALTIC CONCRETE	COORD	COORDINATE	GA	GAUGE	PC	POINT OF CURVATURE	SB	SOUTHBOUND
ACFC	AC FRICTION COURSE	COR	CORNER	GALV	GALVANIZE OR GALVANIZED	PCC	POINT OF COMPOUND CURVATURE	SC	SPIRAL TO CURVE
ACSC	AC SURFACE COURSE	CORR	CORRECTION	GM	GAS METER	PCC	PORTLAND CEMENT CONCRETE	SCT	SECTION
AGG	AGGREGATE	CPT	CONTROL POINT	GND	GROUND	PCCP	PORTLAND CEMENT CONCRETE PAVEMENT	SG	GRADE
AHD	AHEAD	CROWN	CROWN	GOVT	GOVERNMENT	PED	PEDESTRIAN	SGL	SINGLE
AL	ALUMINUM	CS	CURVE TO SPIRAL	GPS	GLOBAL POSITIONING SYSTEM	PI	POINT OF INTERSECTION	SH	SHEET
ALS	APPROACH LIGHTING SYSTEM	CSP	CORRUGATED STEEL PIPE	GR	GRADE	PKWY	PARKWAY	SHLDR	SHOULDER
ALT	ALTERNATE	CSPA	CORRUGATED STEEL PIPE ARCH	GR	GUARD RAIL	PL	PLACE	SPCL	SPECIAL
AMT	AMOUNT	CST	CONSTRUCT OR CONSTRUCTION	GRB	GRUBBING	POC	POINT ON CURVE	SPEC	SPECIFICATION
APPR	APPROACH	CTB	CONCRETE TREATED BASE	GRD	GUARD	POS	POINT ON SPIRAL	SQ	SQUARE
APPROX	APPROXIMATE	CTR	CENTER	GS	GRADE SEPARATION	POT	POINT ON TANGENT	SQ FT, SF	SQUARE FEET
ARP	AIRPORT REFERENCE POINT	CU	CUBIC	GV	GAS VALVE	PRC	POINT OF REVERSE CURVATURE	SQ YD, SY	SQUARE YARD
ASPH	ASPHALT	CWY	CLEARWAY	HDWL	HEADWALL	PRELIM	PRELIMINARY	SR	STATE ROUTE
ATC	AIR TRAFFIC CONTROL	CY	CUBIC YARD OR CUBIC YARDS	HERCP	HORIZONTAL ELLIPTICAL RCP	PRJ	PROJECT	ST	SPIRAL TO TANGENT
AVE	AVENUE	D	DEGREE OF CURVE	HRL	HIGH INTENSITY RUNWAY LIGHTS	PROP	PROPOSED	ST	STREET
AZ	AZIMUTH	DA	DRAINAGE AREA	HL	HEIGHT OF INSTRUMENT	PRT	PROTECTION	STA	STATION
BAL	BALANCE	DBL	DOUBLE	HOR	HORIZONTAL	PRV	PROVISION OR PROVIDE	STD	STANDARD
BC	BEGIN CURVE	DC	DEPRESSED CURB	HT, H, H	HEIGHT	PS	PRESTRESS, PRESTRESSED OR PRESTRESSING	STR	STRUCTURE OR STRUCTURAL
BC	BRASS CAP	DCL	DECELERATION	HW	HEAD WATER	PSI	POUNDS PER SQUARE INCH	SWLK	SIDEWALK
BCFL	BRASS CAP FLUSH	DIA	DIAMETER	HWY	HIGHWAY	PT	POINT	T	TANGENT LENGTH
BCR	BEGIN CURB RETURN	DIP	DUCTILE IRON PIPE	ID	INSIDE DIAMETER	PT	POINT OF TANGENCY	TAN	TOWNSHIP
BDY	BOUNDARY	DIST	DISTANCE	IN	INCH OR INCHES	PVC	POLYVINYL CHLORIDE	TC	TANGENT
BGN	BEGIN	DIV	DIVISION	INCL	INCLUDE, INCLUDED OR INCLUSIVE	PVMT	PAVEMENT	TC	TOP OF CURB
BIT	BITUMINOUS	DR	DRIVE	INV	INVERT	Q	QUANTITY OF DRAINAGE RUNOFF	TCE	TEMPORARY CST ESMT
BK	BACK	DRN	DRAIN OR DRAINAGE	IRR	IRRIGATION	Q	QUADRANT	TEL	TELEPHONE
BKFL	BACKFILL	DTL	DETAIL	JCT	JUNCTION	QTY	QUANTITY	TEMP	TEMPORARY
BLDG	BUILDING	DWG	DRAWING	JT	JOINT	R	RADIUS	TH	THRESHOLD
BLVD	BOULEVARD	DWY	DRIVEWAY	L	LENGTH OR LENGTH OF CURVE	R	RANGE	TL	TAXILANE
BM	BENCH MARK	EA	EACH	LAT	LATERAL	R/W	RIGHT OF WAY	TRNS	TRANSITION
BRG	BEARING	EB	EASTBOUND	LBS	POUNDS	RAIL	RUNWAY ALIGNMENT INDICATOR LIGHTS	TS	TANGENT TO SPIRAL
BRL	BUILDING RESTRICTION LINE	EC	EAST COVER TIE DOWNS	LIN	LINEAR OR LINEAL	RC	REINFORCED CONCRETE	TSA	TAXIWAY SAFETY AREA
BST	BITUMINOUS SURFACE TREATMENT	ECR	END CURB RETURN	LIN FT	LINEAR FEET	RCP	REINFORCED CONCRETE PIPE	TVOR	VERY HIGH FREQUENCY OMNIRANGE
BTB	BITUMINOUS TREATED BASE	EL	ELEVATION	LOC	LOCATION	RCFA	REINFORCED CONCRETE PIPE ARCH	TWY	TAXIWAY
BW	BARBED WIRE	ELEC, E	ELECTRIC OR ELECTRICITY	LD	LEFT	RD	ROAD	TYP	TYPICAL
C&G	CURB AND GUTTER	ELEV	ELEVATION	MAX	MAXIMUM	RDWY	ROADWAY	UG	UNDERGROUND
C/L	CENTER LINE	EMB	EMBANKMENT	MH	MANHOLE	REBAR	REINFORCING BAR	VAR	VARIABLE
CALC	CALCULATED	ENGR	ENGINEER	MILE	MILE OR MILES	RECAST	RECONSTRUCT	VC	VERTICAL CURVE
CAP	CORRUGATED ALUMINUM PIPE	ENT	ENTRANCE	MIN	MINIMUM	REF	REFERENCE	VCP	VETRIFIED CLAY PIPE
CAPA	CAP ARCH	EP	EDGE OF PAVEMENT	MIRL	MEDIUM INTENSITY RUNWAY LIGHTS	REIL	RUNWAY END IDENTIFIER LIGHTS	VERCP	VERT ELLIPTICAL REINF CONC PIPE
CBC	CATCH BASIN	EQ	EQUATION	MISC	MISCELLANEOUS	REINF	REINFORCED OR REINFORCING	VERT	VERTICAL
CEM	CEMENT	ESMT	EASEMENT	MOD	MODIFY OR MODIFIED	RELOC	RELOCATE, RELOCATION OR RELOCATED	VOL	VOLUME
CFS	CUBIC FEET PER SECOND	EST	ESTIMATE	MON	MONUMENT	REM	REMOVE	VOR	VERY HIGH FREQUENCY OMNIRANGE
CG	CATTLE GUARD	EX	EXCAVATION	MP	MILE POST	REQD	REQUIRED	VPI	VERTICAL POINT OF INTERSECTION
CI	CAST IRON	EXP JT	EXPANSION JOINT	MPH	MILES PER HOUR	RESV	RESERVATION	W	WATER
CIP	CAST IRON PIPE	EXST	EXISTING	MSL	MEAN SEA LEVEL	RET	RETAIN OR RETAINING	W	WEST
C-I-P	CAST-IN-PLACE	EXT	EXTERNAL	MTL	MATERIAL	REV	REVISED OR REVISION	W	WIDE OR WIDTH
CL	CLASS	FBO	FIXED BASE OPERATOR	N	NORTH	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE	WB	WESTBOUND
CLR	CLEAR	FED	FEDERAL	NATL	NATIONAL	ROFA	RUNWAY OBJECT FREE AREA	WC	WEST COVER TIE DOWNS
CLV	CULVERT	FIG	FIGURE	NAVAID	NAVIGATIONAL AID	RPZ	RUNWAY PROTECTION ZONE	WM	WATER METER
CD	COUNTY	FIN	FINISH	NB	NORTHBOUND	RR	RAILROAD	WV	WATER VALVE
COL	COLUMN	FL	FLOW LINE	NO	NUMBER	RSA	RUNWAY SAFETY AREA	WWF	WELDED WIRE FABRIC
COMP	COMPACT OR COMPACTION	FND	FOUND	OBL	OBSTITUTE	RT	RIGHT	X-ING	CROSSING
CONC	CONCRETE	FO	FIBER OPTIC	OD	OUTSIDE DIAMETER	RTE	ROUTE	X-SECT	CROSS SECTION
COND	CONDUIT	FR	FRAME	OFA	OBJECT FREE AREA	RT	ROUTE	YD	YARD
		FRT	FRONTAGE	OFZ	OBSTACLE FREE ZONE	RTE	ROUTE		
		FST	FOREST	OH	OVERHEAD	RT	ROUTE		
		FT	FEET OR FOOT	ORIG	ORIGINAL	RTE	ROUTE		
		FTG	FOOTING			RTE	ROUTE		
		FURN	FURNISH OR FURNISHED			RTE	ROUTE		
		FUT	FUTURE			RTE	ROUTE		

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PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: OAC  
Drawn by: RSC  
Checked by: MS  
Date: 2/1/2023  
Dwg scale: AS NOTED  
CIP NO(S): AV31000094

Sheet Overview Title  
**GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX**

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GENERAL NOTES (CONSTRUCTION)

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL 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...
3. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY, AND STATE TRAFFIC REGULATIONS...
4. THESE PLANS SHOW ITEMS TO BE CONSTRUCTED UNDER THIS CONTRACT. ACTUAL FIELD CONDITIONS, GRADES, LOCATIONS AND OTHER FEATURES MAY DIFFER FROM CONDITIONS INDICATED IN THESE DOCUMENTS...
5. HAUL ROUTES - LOCATIONS OF HAUL ROUTES ON THE AIRPORT, OTHER THAN DESIGNATED ON THE PROJECT PLANS, SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE COP AVIATION DEPARTMENT...
6. NO MATERIAL SHALL BE WASTED OR STOCKPILED ON THE AIRPORT UNLESS APPROVED BY THE AIRPORT. STOCKPILED MATERIAL SHALL MEET SWPPP REQUIREMENTS AND SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OPERATIONS OR WIND.
7. CONTRACTOR GENERATED DEBRIS, EXCESS AND LOOSE CONSTRUCTION MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR, PROPELLERS AND ROTORS OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON ACTIVE MOVEMENT AREAS...
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL COP PROPERTY AND SHALL LOCATE AND PROTECT CAREFULLY FROM DAMAGE OR DISTURBANCE ALL BENCHMARKS, LAND MONUMENTS AND PROPERTY MARKERS...
9. THE CONTRACTOR IS REQUIRED TO PROVIDE LIGHTING FOR CONSTRUCTION DURING THE HOURS OF DARKNESS AS REQUIRED TO PERFORM CONSTRUCTION AND RELATED ACTIVITIES.
10. THE CONTRACTOR SHALL VERIFY ALL EXISTING MATCHING GRADES SHOWN ON THE PLANS IN THE FIELD PRIOR TO CONSTRUCTION AND NOTIFY THE RPR IMMEDIATELY IF DIFFERENCES EXIST BETWEEN AS-SHOWN INFORMATION AND FIELD INFORMATION.
11. 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...
12. SPECIFICATIONS ARE PROVIDED WHICH REQUIRE THE CONTRACTOR TO APPLY WATER, CHEMICALS, VEGETATION OR OTHER MATERIALS TO PREVENT THE OCCURRENCE OF DUST WHICH IS OBJECTIONABLE TO THE OPERATIONS OR USERS OF THE AREA...
13. THE EXACT LIMITS, LIGHTING, AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE RPR AND AIRPORT IN THE AREAS GENERALLY AS SHOWN ON THE PLANS...

GENERAL NOTES (ENVIRONMENTAL, CONT.)

- 9. LEAD PAINT INSPECTIONS - CONTRACTOR SHALL COORDINATE WITH AVIATION ENVIRONMENTAL SECTION FOR THE TESTING, AND ABATEMENT OF LEAD-BASED PAINTS ON THE PROJECT SITE. FOR QUESTIONS, CONTACT CHRIS CISNEROS AT (602) 769-6476.
10. GENERAL HOUSEKEEPING - IF ANY MATERIALS, CHEMICALS, PAINTS WILL BE COMING ONTO THE PROJECT LOCATION:
10.A. CONTRACTOR SHALL HAVE SPILL KITS AVAILABLE IN WORK AREAS. CLEAN UP ALL SPILLS IMMEDIATELY.
10.B. ONLY WATER-BASED (WATER BORN) PAINTS ARE TO BE USED. EVEN THOUGH THE PAINT IS WATERBASED (WATERBORNE) THE CLEAN UP OF TOOLS AND EQUIPMENT MAY REQUIRE THE USE OF SOLVENTS...
10.C. ANY PRODUCTS IN 5 GALLON CONTAINERS OR LARGER MUST HAVE SECONDARY CONTAINMENT AND KEPT AWAY FROM STORM DRAINS...
10.D. CONTRACTOR TO ENSURE ALL PIAINT WASTE OR DEBRIS IS REMOVED OFF-SITE.
10.E. THE PRODUCT SHOULD NOT BE APPLIED DURING RAIN OR BEFORE ANTICIPATED RAIN.
10.F. CONTRACTOR SHALL PROTECT THE STORM DRAIN FROM ANY MATERIAL THAT MAY ENTER IT WITH THE EXCEPTION OF RAIN.
10.G. IF POWER WASHING, ALL WATER AND MATERIAL SHALL BE RECOVERED AND DISPOSED OF CORRECTLY.
10.H. ALL WASH WATER FROM THE TILE GROUT CLEANING AND FROM WASHING TOOLS THAT ARE USED TO APPLY JOINT COMPOUND TO THE DRYWALL MUST BE TAKEN OFF-SITE BY CONTRACTOR. DO NOT PLACE IN ANY DRAINS.
10.I. FOR QUESTIONS, CONTACT LAUREN BUSEMAN AT (602) 281-0631.
11. ASPHALT PAVEMENT CONSTRUCTION -
1. DETERGENT (SOAPY) WATER FOR WHEELS OR COMPACTORS OR ASPHALT EQUIPMENT SHALL NOT BE OVERAPPLIED, SPILLED, OR DUMPED.
2. CONTROL SITE ACCESS AND CONSIDER PLACING A 'TRACK-OUT PAD' PRIOR TOTHE ENTRY POINT TO PAVEMENT CONSTRUCTION AREA...
3. PER MAG AND COP SUPPLEMENTS, THE SURFACES SHALL BE CLEANED WITH A SELF-PROPELLED PICKUP SWEEPER.
4. THE SWEEPER CONTENTS TO BE DISPOSED TO SANITARY SEWER UNDER A TEMPORARY SEWER DISCHARGE PERMIT AND TO A PERMANENT SOLID WASTE LANDFILL.
5. PER MAG AND COP SUPPLEMENTS, WHEN NECESSARY, SELF-PROPELLED SWEEPER CLEANING SHALL BE SUPPLEMENTED BY HAND BROOMS.
6. IN THE EVENT THE CONTRACTOR PROPOSES A WATER TRUCK TO CLEAN SURFACES TO REMOVE EXCESSIVE OBJECTIONABLE MATERIAL, THEN
A. NOTIFY P&E 48 HOURS IN ADVANCE TO DISCUSS THE PLAN AND TO ARRANGE INSPECTION DURING ACTIVITY
B. IMPLEMENT THE FOLLOWING MEASURES:
I. BLOCK THE STORM DRAINS WITH MAGNETIC MATS TO AVOID ACCIDENTAL DISCHARGE.
II. DO NOT USE DISPERSANTS, SUCH AS RINSE-AID OR JET DRY, IN THE WATER.
III. USE A SELF-PROPELLED PICKUP SWEEPER IN TANDEM WITH WATER TRUCK TO PICK UP THE WASH WATER AND SOLIDS.
IV. PROPERLY DISPOSE ANY LIQUIDS TO SANITARY SEWER UNDER A TEMPORARY SEWER DISCHARGE PERMIT AND SOLIDS TO A PERMITTED SOLID WASTE LANDFILL. FOR QUESTIONS, CONTACT RICK ROGOWSKI AT (480) 387-8499.
12. CONCRETE WORK - ANY CONCRETE WASH OUT, RESIDUE AND DEBRIS MUST BE CONTAINED AND NOT DISPOSED DIRECTLY ON THE GROUND OR INTO DRAINAGE AREAS OR STORM DRAINS...
13. PRIOR TO START OF ANY GROUND DISTURBING ACTIVITY, THE CONTRACTOR SHALL COORDINATE WITH RPR TO CONFIRM SITE HAS BEEN CLEARED FROM CITY ARCHEOLOGY OFFICE AND CITY SECTION 404 COORDINATOR (MIGRATORY BIRD/BURROWING OWL).
14. DUST , CGP, AND SWPPP SHALL BE GIVEN TO AVIATION ENVIRONMENTAL DEPARTMENT PRIOR TO PRECONSTRUCTION MEETING FOR REVIEW.
15. STORMWATER PLAN REVIEW CHECK LIST - COMPLETE THE CURRENT VERSION OF THE CURRENT CITY OF PHOENIX STORMWATER PLAN REVIEW CHECKLIST AND USE THE SEND BUTTON TO SUBMIT TO OEP AND AVN ENVIRONMENTAL CONTACTS... FOR THE FORM AND ANY QUESTIONS, CONTACT RICK ROGOWSKI AT (480) 387-8499.

GENERAL NOTES (UTILITY)

- 1. EXISTING UTILITY INFORMATION, LIGHTING DUCTS, AND CABLES SHOWN ON THE PLANS CONCERNING THE TYPE, SIZE AND LOCATION WERE COMPILED BASED ON THE BEST AVAILABLE UTILITY RECORDS TO THE RPR AND AIRPORT. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION PRIOR TO CONSTRUCTION...
ARIZONA PUBLIC SERVICE (602) 371-6010, CONTACT: COLIN BARLEYCORN
SWISSPORT FUELING, INC. (602) 757-6843, CONTACT: BRUCE BUCKMASTER
FAA FACILITIES (602) 463-5368 CONTACT: PATRICK DELANEY
CENTURYLINK (602) 530-0496, CONTACT: JOHN O'DELL
GAS (SW GAS) (602) 484-5344, CONTACT: NORMA JARDIN
CITY WATER/SEWER (602) 261-8229, CONTACT: JAMI ERICKSON
COP P&E CONTACT: REBECCA GODLEY (602) 821-4341
ALL EMERGENCY, FIRE, POLICE, MEDICAL (602) 273-3311, CONTACT: OPERATOR
COP COMMUNICATIONS (602) 359-1955, CONTACT: CHAD BLOTKAMP
COP UTILITIES (602) 821-4285 OR (602) 821-4277 CONTACT: JAY DUPONT
COP FACILITIES (602) 397-3300 CONTACT: MARCOS ARANGO
COP MECHANICAL (602) 850-1590 CONTACT: RUSTY FRANSWORTH
COP ELECTRICAL (602) 540-7667 CONTACT: RUSTY FRANSWORTH

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND ELECTRICAL SYSTEMS TO REMAIN PRIOR TO COMMENCING ANY UNCLASSIFIED EXCAVATION OR EXCAVATION FOR STRUCTURES, MANHOLES, CATCH BASINS ETC. SEVERAL UTILITY OWNERS INCLUDING THE CITY OF PHOENIX AVIATION DEPARTMENT, SOLID WASTE MANAGEMENT DEPARTMENT, HUMAN SERVICES DEPARTMENT, THE FEDERAL AVIATION ADMINISTRATION, AIR NATIONAL GUARD AND OTHERS ARE NOT MEMBERS OF THE BLUESTAKE CENTER NOTIFICATION SYSTEM AND MUST BE NOTIFIED INDIVIDUALLY.

- 2. POWER, CONTROL CABLES AND FIXTURES FOR AIRFIELD LIGHTING AND NAVIGATIONAL AIDS ARE LOCATED IN THE CONSTRUCTION AREAS. THE CONTRACTOR'S PERSONNEL SHALL BECOME FAMILIAR WITH THESE CABLE AND FIXTURE LOCATIONS AND KEEP VEHICLES AND EQUIPMENT CLEAR OF THEM AT ALL TIMES...
3. ANY DAMAGE TO THE EXISTING AIRPORT LIGHTING SYSTEM CAUSED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY NOTED TO THE OWNER AND REPAIRED BY THE CONTRACTOR AT ITS OWN EXPENSE.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AND BACKFLOW PREVENTERS AT ALL TIMES.
5. THE CONTRACTOR SHALL NOT DRAW WATER FROM ANY FIRE HYDRANT FOR USE ON THE WORK WITHOUT FIRST OBTAINING A METER FROM THE WATER DEPARTMENT AND PERMISSION FROM THE FIRE DEPARTMENT...
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY ELECTRICAL TIE-OVERS THAT WILL BE REQUIRED TO KEEP TAXIWAY EDGE LIGHTS AND SIGNS IN OPERATION AT ALL TIMES WHEN THE PAVEMENT AREAS ARE AVAILABLE TO AIRCRAFT TRAFFIC.
7. CONTRACTOR SHALL NOTE IN THE RECORD DRAWINGS ANY AND ALL PIPES, DUCTS AND CABLES FOUND DURING EXCAVATION. INDICATE EXACT POSITION, ELEVATION, DIRECTION, SIZE, MATERIAL, PURPOSE AND ACTIVE STATUS, IF KNOWN. CONTRACTOR SHALL PROVIDE X, Y, AND Z COORDINATES ON THE DRAWINGS.

GENERAL NOTES (SAFETY AND SECURITY)

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTING EMPLOYEES TO AND FROM THE PROJECT SITE IF NECESSARY.
2. 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.
3. ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR EACH WORK SHIFT UNLESS TRAVELING TO OR FROM THE SITE. ALL VEHICLES AND EQUIPMENT SHALL BE PARKED IN STAGING AREAS AS APPROVED BY THE AIRPORT.
4. CONTRACTOR ACCESS TO AOA SHALL BE THROUGH APPROVED SECURITY GATES. THE CONTRACTOR WILL PROVIDE GATE GUARDS AT THE GATES TO ALLOW ONLY AUTHORIZED CONSTRUCTION TRAFFIC TO ENTER THE SITE...
5. CONSTRUCTION EQUIPMENT SHALL NOT PENETRATE THE HEIGHT RESTRICTIONS FOR FAR PART 77, UNLESS SUBMITTED FOR EXCEPTION BY 7460 PERMIT.
6. COP WILL INSTALL, MAINTAIN, AND REMOVE LIGHTED X'S. ALL OTHER TRAFFIC CONTROL WILL BE PROVIDED AND MAINTAINED BY CONTRACTOR.

GENERAL NOTES (ENVIRONMENTAL)

- 1. CONTRACTOR TO PROVIDE SUBMITTALS AND MATERIAL SAFETY DATA SHEET TO THE AIRPORT FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE A MEETING WITH AIRPORT OPERATIONS AND ENVIRONMENTAL DEPARTMENT PRIOR TO CONSTRUCTION.
2. THE PROJECT WILL DISTURB MORE THAN ONE ACRE. THE CONTRACTOR SHALL OBTAIN A MARICOPA COUNTY DUST CONTROL PERMIT PRIOR TO CONSTRUCTION. COP ENVIRONMENTAL SHALL REVIEW AND APPROVE PERMIT APPLICATION PRIOR TO SUBMITTAL TO MARICOPA COUNTY.
3. THE CONTRACTOR SHALL OBTAIN A CONSTRUCTION GENERAL PERMIT FROM ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). COP ENVIRONMENTAL SHALL REVIEW AND APPROVE PERMIT APPLICATION PRIOR TO SUBMITTAL TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY.
4. 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...
5. THE CONTRACTOR SHALL PROTECT EXISTING WELLS IN-PLACE, UNLESS OTHERWISE NOTED. COORDINATE WITH COP ENVIRONMENTAL FOR CASING ADJUSTMENTS TO FINAL GRADE...
6. IN THE EVENT OF A SPILL, DEER VALLEY OPERATIONS SHALL BE CONTACTED IMMEDIATELY AT (623) 869-0975; THEN AVIATION ENVIRONMENTAL SHALL BE CONTACTED AT (602) 273-3302.
7. EXCESS SOIL SHALL NOT BE HAULED OFF SITE, BUT SHALL REMAIN ON-SITE AND DISPOSED OF IN THE NORTHEAST QUADRANT OF AIRPORT (ADJACENT TO NE STAGING AREA)...
8. MARICOPA COUNTY ASBESTOS NATIONAL EMISSIONS STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)- ANY BUILDING MATERIALS OTHER THAN UNPAINTED WOOD, METAL OR GLASS THAT WILL BE DISTURBED BY THIS PROJECT NEED TO BE TESTED FOR THE PRESENTS OF ASBESTOS-CONTAINING MATERIALS...



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY BE USED FOR ANY OTHER PURPOSES EXCEPT AS AUTHORIZED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

Table with 4 columns: NO., REVISIONS / SUBMISSIONS, DATE. Contains a grid for tracking changes.

PHX DVT CYR City of Phoenix Aviation Department

PHOENIX DEER VALLEY AIRPORT RUNWAYS 7L/25R AND 7R/25L BLAST PADS 702 W. DEER VALLEY RD., PHOENIX, ARIZONA 85027

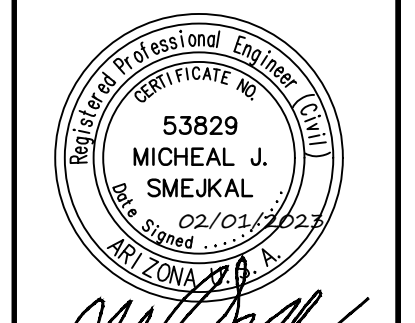
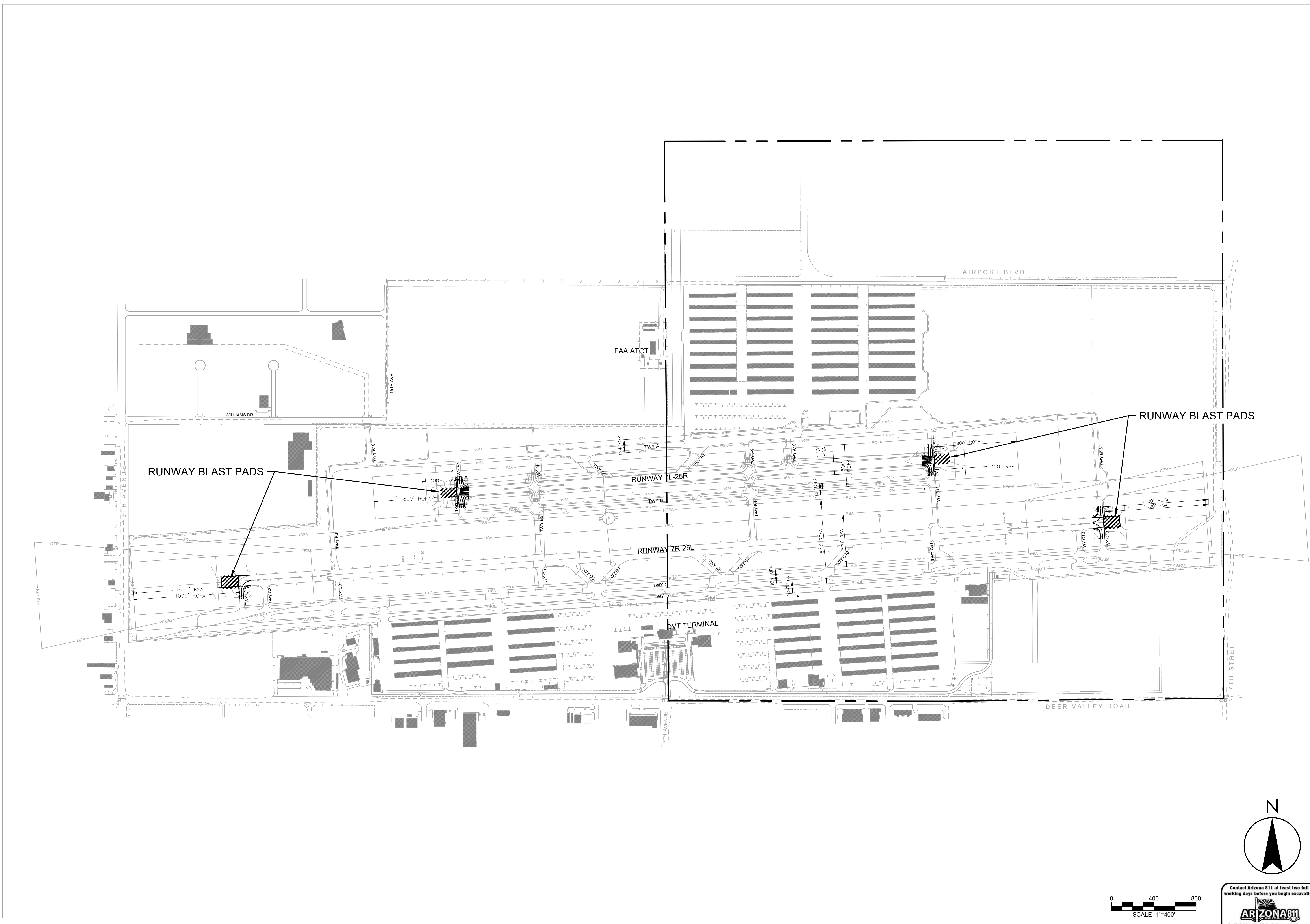
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GENERAL NOTES

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PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. CONTRACTOR'S OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

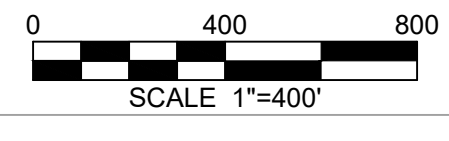
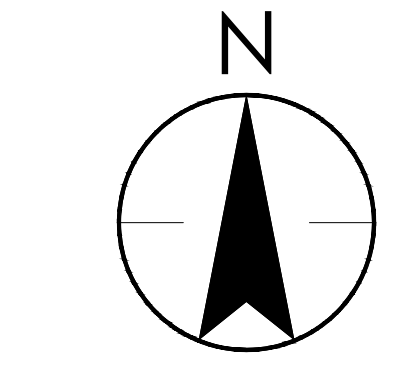
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC	RSC
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Sheet Overview Title  
**OVERALL SITEPLAN**

Sheet Reference Number:  
**G104**  
 Sheet 4 of 38





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**ESTIMATED EARTHWORK**

\*NO SHRINKAGE INCLUDED, BASED ON SURFACE COMPARISON LESS EXISTING PAVEMENT SECTION TO TOP OF NEW SUBGRADE (P-152).

RUNWAY 7L/25R		
CUT	FILL	NET
300 CY	418 CY	118 CY FILL

RUNWAY 7R/25L		
CUT	FILL	NET
490 CY	2 CY	488 CY CUT

NOTE: EITHER ALTERNATIVE 1 OR ALTERNATIVE 2 WILL BE AWARDED.

**DEER VALLEY AIRPORT  
 BLAST PADS  
 ESTIMATED QUANTITIES  
 May 1, 2023**

Item No.	Spec. No.	Item and Description	Unit	Estimated Quantities	As-Built Quantities
1	P-101-5.1	AC PAVEMENT REMOVAL	SY	573	
2	P-101-5.2	JOINT AND CRACK REPAIR (1/4"-1-1/2")	LF	2,900	
3	P-101-5.3	JOINT AND CRACK REPAIR (1-1/2"-2-1/2")	LF	600	
4	P-101-5.4	COLD MILLING (VARIABLE 0"-2")	SY	196	
5	P-101-5.5	COLD MILLING (2")	SY	3,268	
6	P-101-5.6	SAWCUT AC PAVEMENT	LF	1,809	
7	P-101-5.7	REMOVE, STORE AND RELAY ROCK MULCH	SY	6,755	
8	P-152-5.1	UNCLASSIFIED EXCAVATION	CY	790	
9	P-152-5.2	BORROW EXCAVATION	CY	118	
10	P-152-5.3	SUBGRADE PREPARATION - 8"	SY	4,154	
11	P-155-8.1	LIME TREATED SUBGRADE - 6"	SY	1,672	
12	P-155-8.2	LIME TREATED SUBGRADE - 7"	SY	1,672	
13	P-155-8.3	LIME	TONS	60	
14	P-209-5.1	CRUSHED AGGREGATE BASE COURSE 6"	SY	3,256	
15	P-209-5.2	CRUSHED AGGREGATE BASE COURSE 16"	SY	740	
16	P-403-8.1	ASPHALT PAVEMENT SUFACE COURSE	TONS	1,351	
17	P-403-8.2	ASPHALT PAVEMENT LEVELING COURSE	TONS	40	
18	P-620-5.1	PAVEMENT MARKING YELLOW WITH BEADS	SF	7,662	
19	P-620-5.2	PAVEMENT MARKING WHITE WITH BEADS	SF	3,415	
20	P-620-5.3	TEMPORARY RUNWAY AND TAXIWAY MARKING	SF	11,077	
21	L-100-5.1	REMOVE AND SALVAGE RUNWAY THRESHOLD / END LIGHT & ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	EA	28	
22	L-100-5.2	REMOVE AND SALVAGE TAXIWAY EDGE LIGHT & ISOLATION TRANSFORMER, REMOVE EXISTING BASE CAN	EA	2	
23	L-100-5.3	REMOVE AND SALVAGE TAXIWAY EDGE LIGHT & ISOLATION TRANSFORMER, EXISTING BASE CAN TO REMAIN, INSTALL TEMPORARY PLYWOOD COVER	EA	2	
24	L-100-5.4	EXCAVATE AND REMOVE EXISTING CONDUIT & CONDUCTOR	LF	1,030	
25	L-100-5.5	REMOVE EXISTING CONDUCTOR, CONDUIT TO REMAIN	LF	1,325	
26	L-100-5.7	REMOVE EXISTING CONCRETE HAND HOLE LID FOR ADJUSTING TO NEW GRADE	EA	2	
27	L-100-5.8	TEMPORARY AIRFIELD LIGHTING (RUNWAY 7R/25L THRESHOLD) AND CABLE JUMP	LS	1	
28	L-108-5.1	L-824, TYPE C, 1/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND	LF	1,455	
29	L-108-5.2	L-824, TYPE C, 2/C #8 AWG, 5KV CABLE, W/ #6 BARE COPPER GROUND	LF	885	
30	L-108-5.3	3-#10 #10 GROUND AND 2-#12 REIL TRIGGER CABLE	LF	490	
31	L-110-5.1	SINGLE-WAY, (1) - 2" CONDUIT, SLURRY ENCASED	LF	130	
32	L-110-5.2	SINGLE-WAY, (1) - 2" CONDUIT, CONCRETE ENCASED	LF	785	
33	L-110-5.3	MULTIPLE-WAY (2) - 2" CONDUIT, CONCRETE ENCASED	LF	120	
34	L-115-5.1	INSTALL NEW CABLE RACKS (4 EACH) AND DRILL SUMP IN EXISTING 4'X4' HAND HOLE	EA	4	
35	L-115-5.2	NEW PVC RGL ISOLATION BOXES AND CONDUITS IN EXISTING 4'X4' HAND HOLE (IF REQUIRED)	EA	2	
36	L-115-5.3	ADJUST EXISTING CONCRETE HAND HOLE LID TO NEW GRADE	EA	2	
37	L-125-5.1	NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD / END LIGHT (RED) & ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	16	
38	L-125-5.2	NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD / END LIGHT (RED/GREEN) & ISOLATION TRANSFORMER ON NEW L-867 BASE CAN	EA	8	
39	L-125-5.3	NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD LIGHT (RED/GREEN) & ISOLATION TRANSFORMER ON NEW L-868 BASE CAN WITH CONVERSION BASE PLATES	EA	4	
40	L-125-5.4	INSTALL EXISTING TAXIWAY EDGE LIGHT & ISOLATION TRANSFORMER ON EXISTING L-867 BASE	EA	2	
41	L-125-5.5	New 4.5" L-867B Extension Ring Adjustment & Concrete Surround On Existing Elevated Edge Light	EA	1	
42	50-07.1	CONSTRUCTION SURVEY AND LAYOUT	LS	1	
43	C-100	CONTRACTOR QUALITY CONTROL PROGRAM (QCQP)	LS	1	
44	C-102-5.1a	TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL (SWPPP)	LS	1	
45	C-102-5.1b	CONSTRUCTION WATER	LS	1	
46	C-105	MOBILIZATION - DEMOBILIZATION	LS	1	
47	M-003-8.1	AIRPORT SAFETY AND SECURITY	LS	1	

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REMOVE SEALCOAT ALTERNATE 1

5/01/23

NO.

DATE

REVISIONS / SUBMISSIONS

NO.

DATE

DESIGNED BY: OAC

DRAWN BY: RSC

CHECKED BY: MS

DATE: 2/1/2023

DWG SCALE: AS NOTED

CIP NO.(S): AV31000094

PHX DVT CYR  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

QUANTITIES

SHEET OVERVIEW TITLE

SHEET REFERENCE NUMBER:

G105

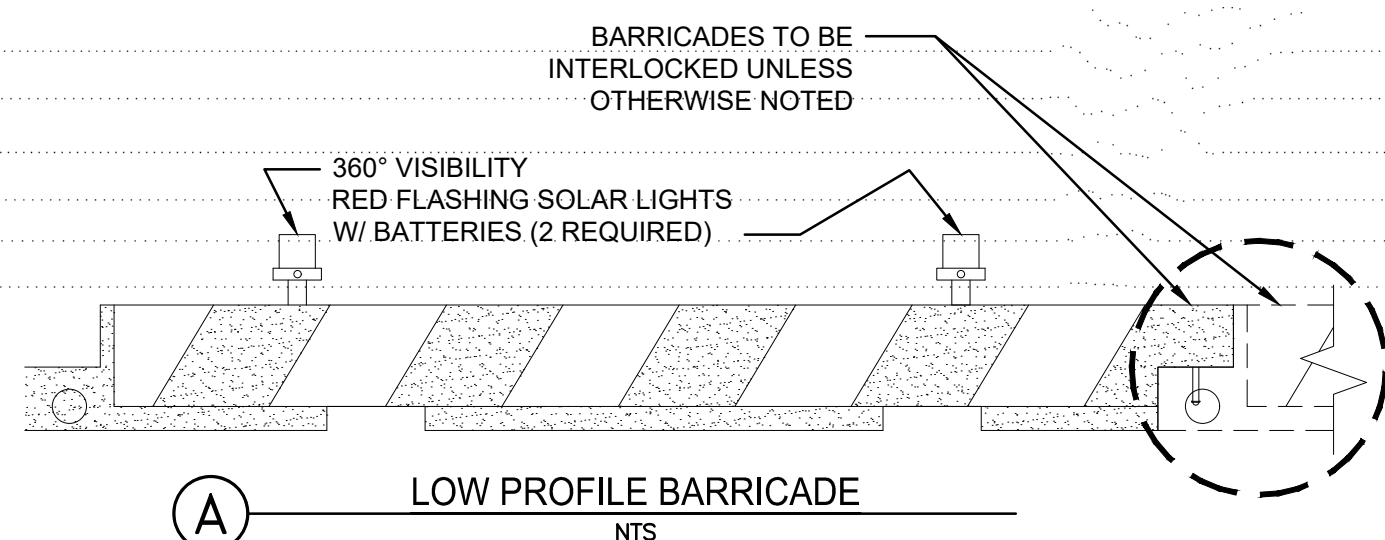
SHEET 5 OF 38





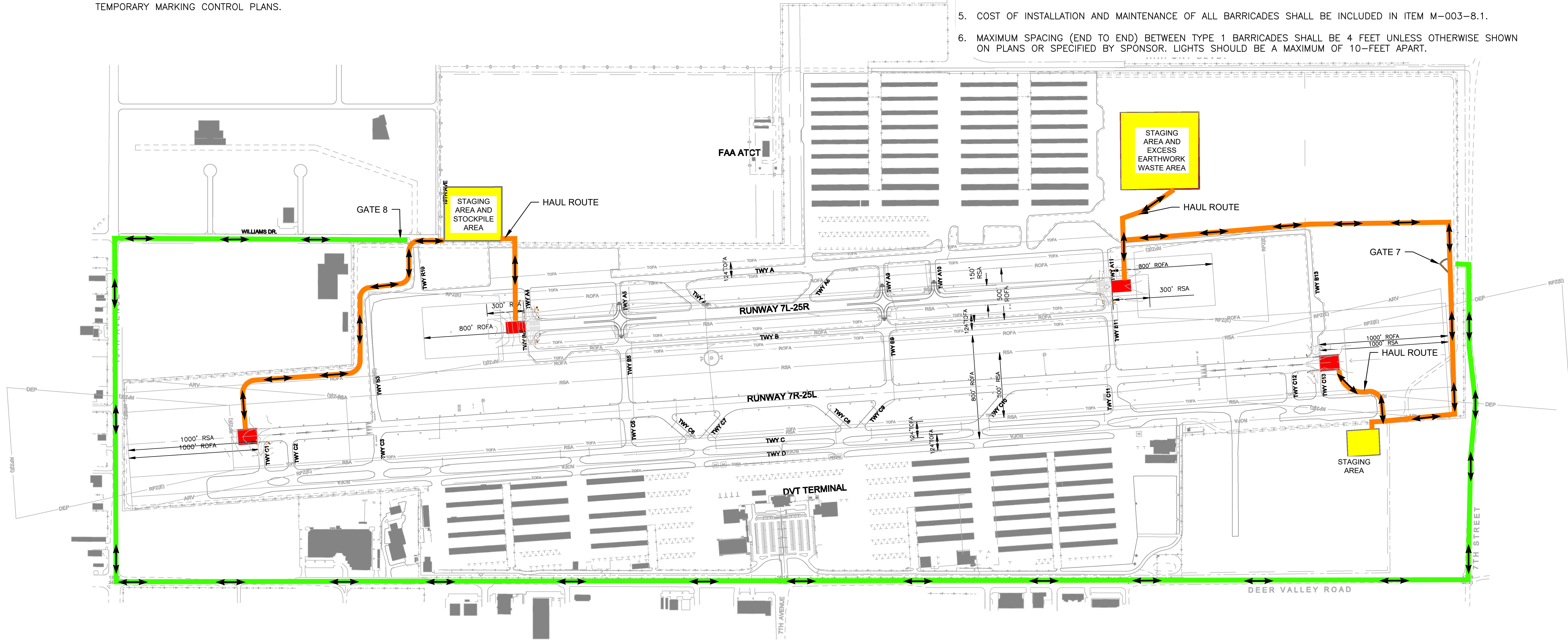
**GENERAL NOTES (PHASING)**

- HAUL ROUTES TO AND FROM SPECIFIC PORTIONS OF THE CONSTRUCTION SITE ARE LIMITED BY AIRCRAFT AND AIRPORT OPERATIONS. THE CONTRACTOR IS REQUIRED TO COORDINATE HAUL ROUTES TO AND FROM AS WELL AS IN THE CONSTRUCTION SITE AREA WITH THE DEER VALLEY AIRPORT OPERATIONS DEPARTMENT.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A SWPPP APPROVAL PRIOR TO HAULING TO OR FROM THE CONSTRUCTION SITE.
- CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE PARKED AND/OR OPERATED INSIDE THE BARRICADES AS SHOWN ON THE CONSTRUCTION PHASING PLANS.
- SAFETY BARRICADES SHALL BE PROVIDED AROUND ALL PHASES OF WORK TO SEPARATE CONSTRUCTION WORK FROM AIRPORT OPERATIONS. SEE CONSTRUCTION PHASING PLANS FOR LOCATIONS.
- CONSTRUCTION VEHICLE MOVEMENT THROUGH AND ADJACENT TO THE AIRCRAFT OPERATION ZONES SHALL BE CONTROLLED FOR SAFETY IN ACCORDANCE WITH THE CONSTRUCTION PHASING PLANS AND THE TEMPORARY MARKING CONTROL PLANS.
- ALL GATES SHOWN OUTSIDE THE PHASING LIMITS SHALL REMAIN OPERATIONAL AND UNDISTURBED THROUGHOUT THE DURATION OF THE PHASE, UNLESS OTHERWISE NOTED.
- PERMANENT MARKINGS RELOCATED DURING CONSTRUCTION SHALL BE RESTORED AT PROJECT COMPLETION AND ALL TEMPORARY MARKINGS SHALL BE REMOVED.
- AT THE BEGINNING AND END OF EACH SUBPHASE, THE CONTRACTOR SHALL RELOCATE THE BARRICADES TO MATCH THE LIMIT OF CONSTRUCTION ACCORDINGLY, ALL TEMPORARY MARKINGS AND BARRICADES SHALL BE INSPECTED AND APPROVED BY OPERATIONS OSCAR 30 PRIOR TO BEGINNING WORK FOR EACH SUBPHASE.



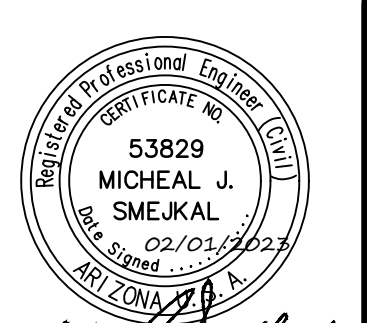
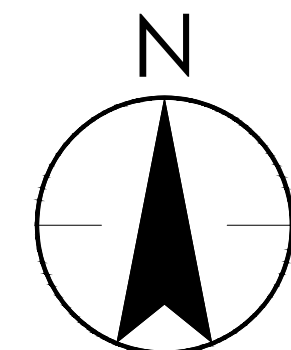
**BARRICADE NOTES:**

- UNLESS OTHERWISE SPECIFIED, TYPICAL BARRICADE SHALL BE PLACED 5' OFF THE WORK AREA ON PAVED SURFACES TO DELINEATE HAZARDOUS OR CLOSED MOVEMENT AREAS WHICH AN AIRCRAFT MAY NOT ENTER.
- BARRICADE SHALL BE IN ACCORDANCE WITH FAA ADVISORY CIRCULAR AC 150/5370-2G AND SHALL BE WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. SOLAR LIGHTS SHALL BE MODEL 630 SOLAR OR APPROVED EQUAL.
- BARRICADES SHALL BE MAINTAINED CONTINUOUSLY, KEPT FILLED WITH WATER AT ALL TIMES AND SECURED IN A MANNER AS TO PREVENT POSSIBLE DAMAGE OR INJURY DUE TO JET BLAST OR PROP WASH.
- ALL LIGHT FIXTURES SHALL BE VERIFIED OPERATIONAL BY CONTRACTOR DAILY.
- COST OF INSTALLATION AND MAINTENANCE OF ALL BARRICADES SHALL BE INCLUDED IN ITEM M-003-8.1.
- MAXIMUM SPACING (END TO END) BETWEEN TYPE 1 BARRICADES SHALL BE 4 FEET UNLESS OTHERWISE SHOWN ON PLANS OR SPECIFIED BY SPONSOR. LIGHTS SHOULD BE A MAXIMUM OF 10- FEET APART.



**LEGEND**

- AIRSIDE HAUL ROUTES
- LANDSIDE HAUL ROUTES



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHOENIX.

NO.	REVISIONS /	SUBMISSIONS	DATE

**PHX DVT CVR**  
 City of Phoenix Aviation Department  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC  
 Drawn by: RSC  
 Checked by: MS  
 Date: 2/1/2023  
 Dwg. scale: AS NOTED  
 CIP NO.(S): AV31000094

Sheet Overview Title  
**CONSTRUCTION SAFETY AND PHASING OVERALL**

Sheet Reference Number:  
**G106**  
 Sheet 6 of 38



PHASE 1 - RUNWAY 7L-25R BLAST PADS WORK WILL BE COMPLETED WITHIN 28 DAYS. PHASE 1 CANNOT OCCUR IN JULY OR AUGUST.

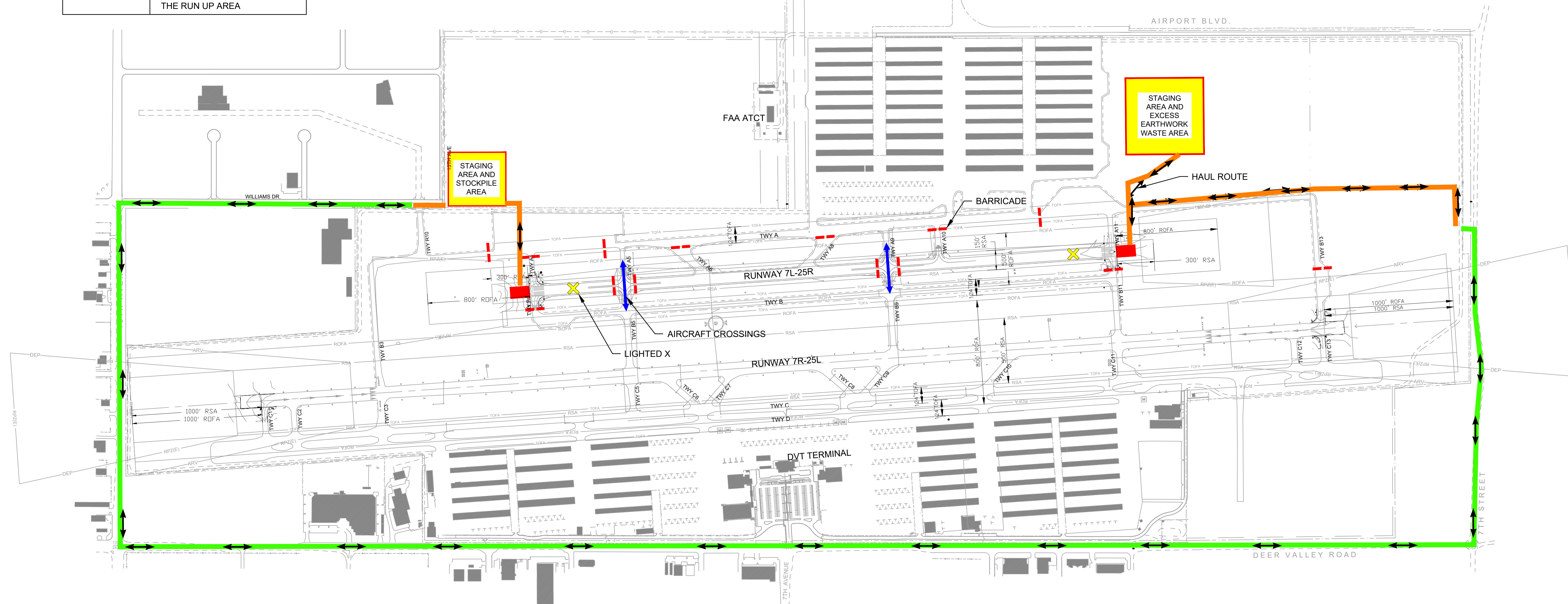
- SET UP BARRICADES AND TRAFFIC CONTROL
- REMOVE EXISTING ROCK SHOULDERS AND SALVAGE
- DEMOLISH PAVEMENTS AND THRESHOLD LIGHTS. LOCK OUT AND TAG OUT AIRFIELD ELECTRICAL CIRCUIT FOR RUNWAY THRESHOLD LIGHTING AND REMOVE FIXTURES AND BASES.
- EXCAVATION
- CONSTRUCT SUBBASE AND AGGREGATE BASE
- INSTALL NEW THRESHOLD CANS AND DUCT BANKS
- PLACE ASPHALT PAVEMENT
- INSTALL NEW LIGHTS, THRESHOLD LIGHTING FIXTURES, AND PULL CABLE
- INSTALL SALVAGED ROCK SHOULDERS
- PLACE TEMPORARY PAVEMENT MARKINGS

NOTES:

1. AIRPORT OPERATIONS WILL INSTALL AND MAINTAIN LIGHTED X'S THROUGHOUT DURATION OF PHASE.
2. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS AT THE BEGINNING OF EACH WORKSHIFT THAT PAVEMENTS HAVE BEEN CLOSED, BARRICADES AND LIGHTED X'S APPROPRIATELY PLACED PRIOR TO STARTING WORK.
3. AT THE END OF EACH SHIFT CONTRACTOR SHALL NOTIFY AIRPORT OPERATIONS PRIOR TO LEAVING WORKSITE TO ALLOW FOR INSPECTION.
4. PRIOR TO REOPENING PAVEMENTS TO AIRCRAFT TRAFFIC CONTRACTOR SHALL ASSURE THERE ARE NO DROP OFFS, RUTS, ETC GREATER THAN 3" WITHIN RUNWAY SAFETY AREAS.

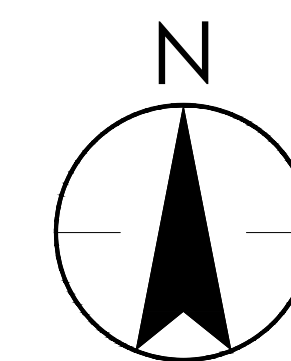
PHASE 1 PAVEMENT CLOSURES

PAVEMENT TYPE	CLOSED - CONTINUOUS
RUNWAYS	RUNWAY 7L-25R
TAXIWAYS	A4, A6, A8, A10, A11, A13, B4, B11, TW A BETWEEN A4 AND R10, AND TW B13 BETWEEN A11 AND THE RUN UP AREA

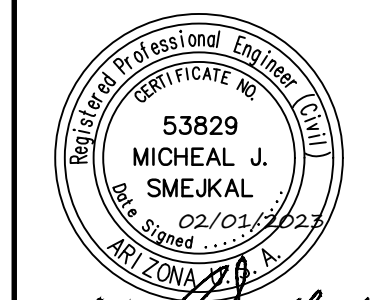


LEGEND

- LOW PROFILE BARRICADES
- LIGHTED X'S
- AIRCRAFT CROSSINGS
- AIRSIDE HAUL ROUTES
- LANDSIDE HAUL ROUTES



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PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
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Designed by: OAC  
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 CIP NO.(S): AV31000094

Sheet Overview Title  
**CONSTRUCTION SAFETY AND PHASING PLAN 1**

Sheet Reference Number:  
**G107**  
 Sheet 7 of 38



PHASE 2 - RUNWAY 7R-25L WORK WILL BE COMPLETED WITHIN 56 NIGHTLY CLOSURES

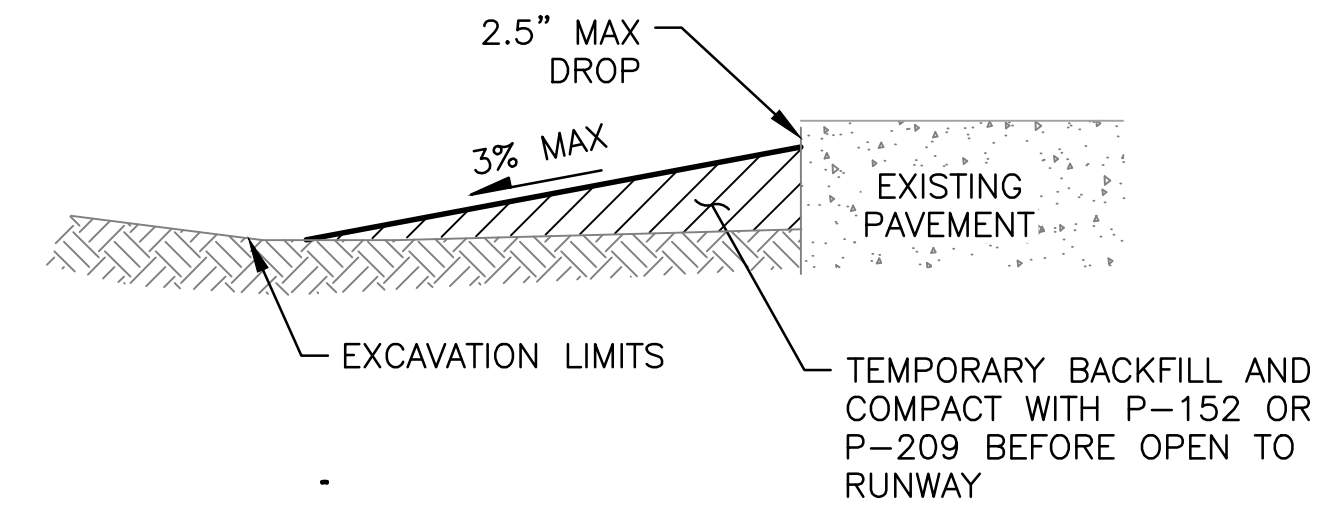
- SET UP BARRICADES TRAFFIC CONTROL AND TEMPORARY THRESHOLD LIGHTS AND JUMPERS
- REMOVE EXISTING ROCK SHOULDERS AND SALVAGE
- MILL PAVEMENTS AND DEMOLISH THRESHOLD LIGHTS
- EXCAVATION
- CONSTRUCT AGGREGATE BASE
- INSTALL NEW THRESHOLD CANS AND DUCT BANKS
- CRACK FILLING (ALTERNATE 2)
- PLACE ASPHALT PAVEMENT
- INSTALL NEW LIGHTS AND PULL CABLE
- INSTALL SALVAGED ROCK SHOULDERS
- PLACE TEMPORARY PAVEMENT MARKINGS

PHASE 2 PAVEMENT CLOSURES

PAVEMENT TYPE	CLOSED - NIGHTLY CLOSURES FROM 8PM-6AM
RUNWAYS	RUNWAY 7R-25L
TAXIWAYS	B3, B13, C1, C2, C3, C6, C7, C8, C9, C10, C12, C13

NOTES:

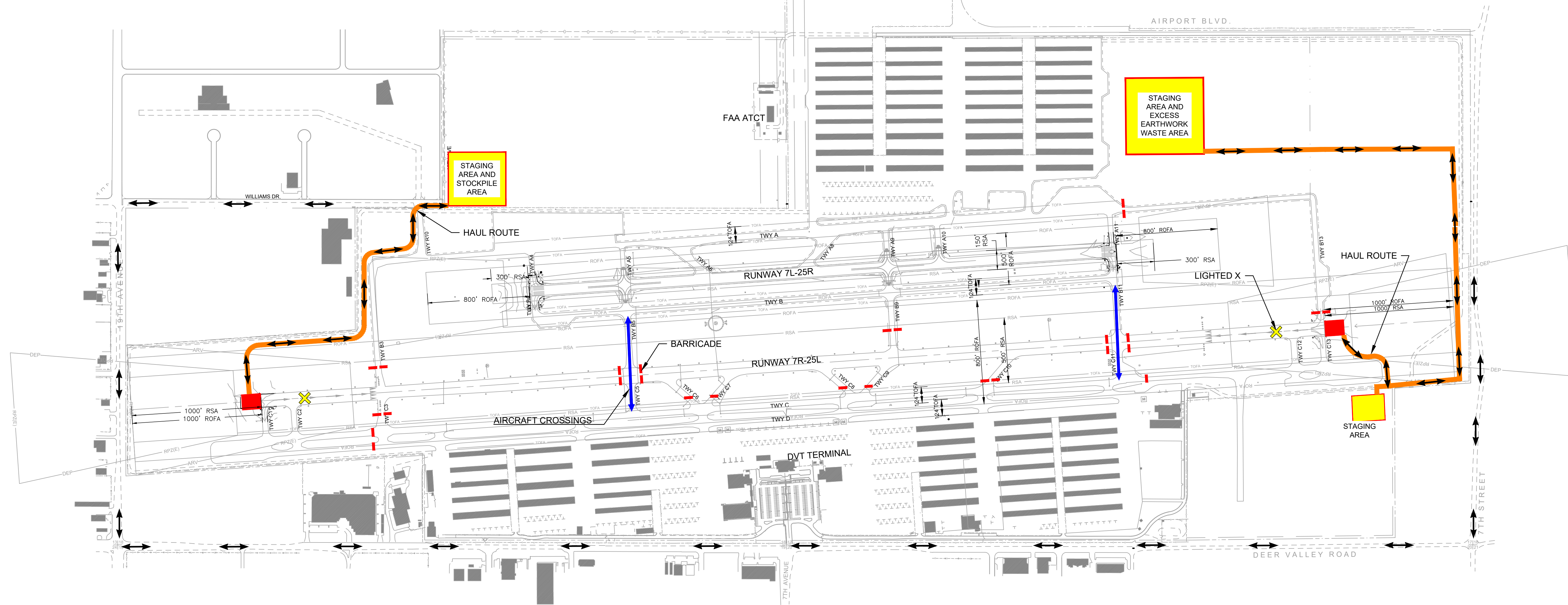
1. AIRPORT OPERATIONS WILL INSTALL AND MAINTAIN LIGHTED X'S THROUGHOUT DURATION OF PHASE.
2. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS AT THE BEGINNING OF EACH WORKSHIFT THAT PAVEMENTS HAVE BEEN CLOSED, BARRICADES AND LIGHTED X'S APPROPRIATELY PLACED PRIOR TO STARTING WORK.
3. AT THE END OF EACH NIGHTLY WORK SHIFT CONTRACTOR SHALL SAFE UP PAVEMENTS, SEE DETAIL THIS SHEET, AND SWEEP ALL PAVEMENTS. CONTRACTOR SHALL NOT REMOVE BARRICADES UNTIL THE PAVEMENTS AND SAFE UPS HAVE BEEN INSPECTED BY AIRPORT OPERATIONS AND THEY HAVE CONDUCTED A FOD SWEEP OF THE PAVEMENTS TO BECOME ACTIVE FOR AIRCRAFT OPERATIONS AND THEY HAVE ACCEPTED CONDITION OF WORKSITE.



SAFE-UP DETAIL

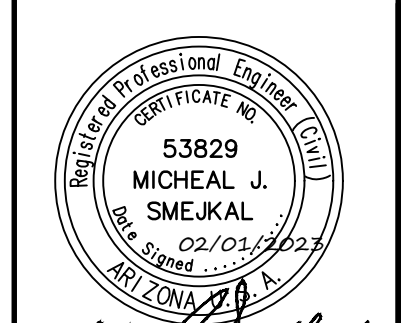
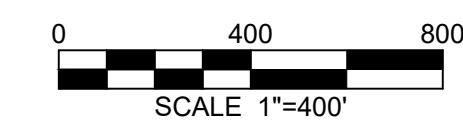
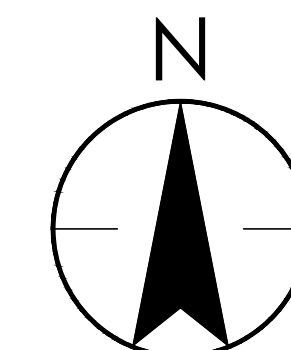
NOTES:

1. CONTRACTOR SHALL SAFE-UP WORK AREAS PRIOR TO REOPENING TO AIR TRAFFIC. DURING PHASE 2 THIS WILL BE AT END OF EACH SHIFT. CONTRACTOR SHALL HAVE AIRSIDE OPERATIONS INSPECT SAFE-UP PRIOR TO REOPENING.
2. CONTRACTOR MAY ALSO PLACE STEEL PLATES ACROSS EXCAVATION AT 3% MAXIMUM SLOPE IN LIEU OF TEMPORARY BACKFILL



LEGEND

- LOW PROFILE BARRICADES
- LIGHTED X'S
- AIRCRAFT CROSSINGS
- AIRSIDE HAUL ROUTES
- LANDSIDE HAUL ROUTES



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHOENIX AND THE AIRPORT OPERATIONS AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE
1	REMOVE SEALCOAT ALTERNATE	5/01/23

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC  
 Drawn by: RSC  
 Checked by: MS  
 Date: 2/1/2023  
 Dwg. scale: AS NOTED  
 CIP NO.(S): AV31000094

Sheet Overview Title  
**CONSTRUCTION SAFETY AND PHASING PLAN 2**

Sheet Reference Number:  
**G108**  
 Sheet 8 of 38



PHASE 3 – WORK WILL BE COMPLETED WITHIN UP TO 2 NIGHTLY CLOSURES

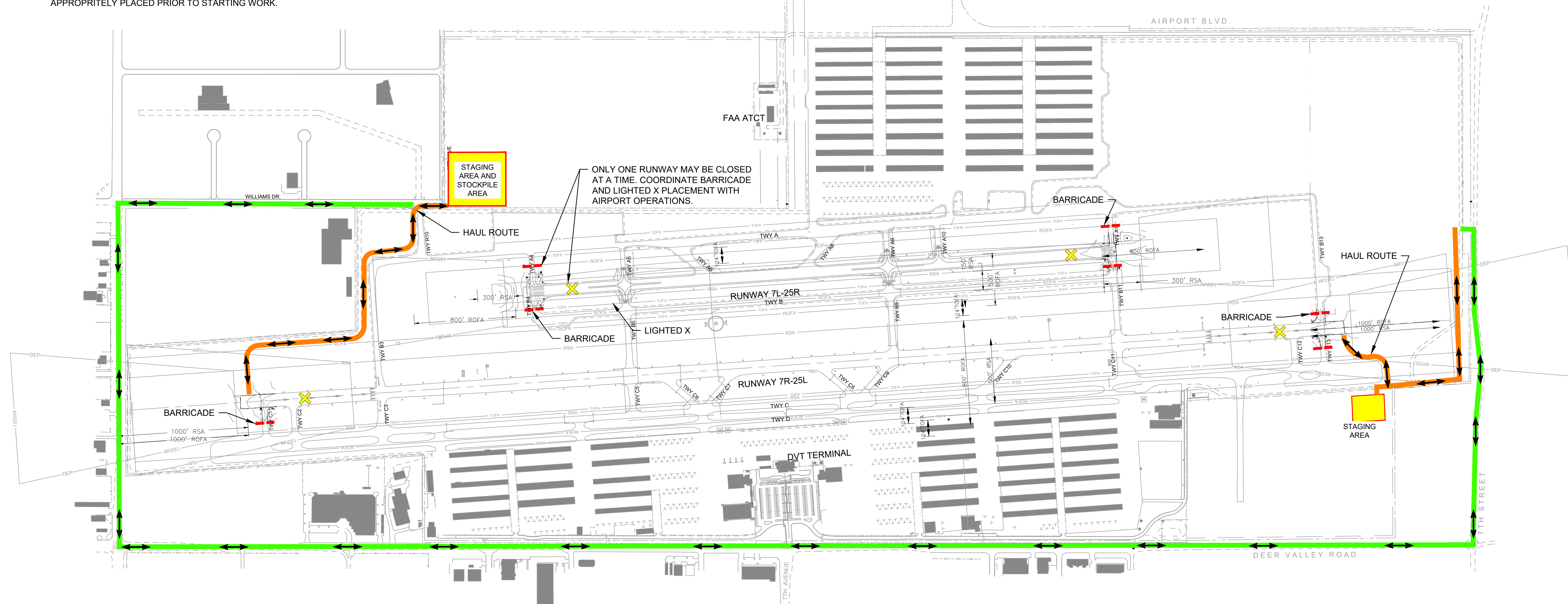
- PLACE FINAL PAVEMENT MARKINGS

PHASE 3 PAVEMENT NIGHTLY CLOSURES

PAVEMENT TYPE	CLOSED – NIGHTLY CLOSURES FROM 8PM-6AM
RUNWAYS	RUNWAY 7R-25L & RUNWAY 7L-25R BUT NOT AT THE SAME TIME. ONE RUNWAY MUST ALWAYS REMAIN OPEN
TAXIWAYS	A4,B4, A11, B11, B13, C1, C13

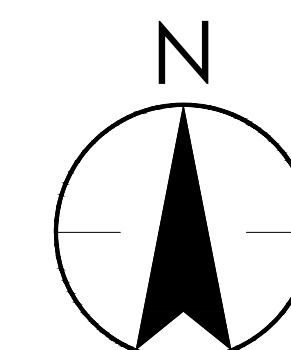
NOTES:

1. AIRPORT OPERATIONS WILL INSTALL AND MAINTAIN LIGHTED X'S THROUGHOUT DURATION OF PHASE.
2. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS AT THE BEGINNING OF EACH WORKSHIFT AND MOVEMENT TO NEXT WORK AREA THAT PAVEMENTS HAVE BEEN CLOSED. BARRICADES AND LIGHTED X'S APPROPRIATELY PLACED PRIOR TO STARTING WORK.

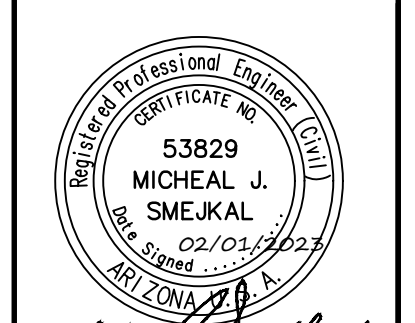


LEGEND

- LOW PROFILE BARRICADES
- LIGHTED X
- AIRSIDE HAUL ROUTES
- LANDSIDE HAUL ROUTES



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 2-28, THESE PLANS ARE FOR  
 OFFICIAL USE ONLY AND MAY  
 NOT BE REPRODUCED OR  
 COPIED IN ANY MANNER  
 WITHOUT THE WRITTEN  
 PERMISSION OF THE  
 CITY ENGINEER. THE  
 CONTRACTOR SHALL BE  
 RESPONSIBLE FOR OBTAINING  
 ALL NECESSARY PERMITS  
 AND APPROVALS FROM THE  
 CITY OF PHOENIX.  
 CONTRACTOR'S OBLIGATIONS  
 UNDER THESE PLANS SHALL  
 BE LIMITED TO THE OBLIGATIONS  
 OF THE CONTRACTOR'S CONTRACT  
 WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

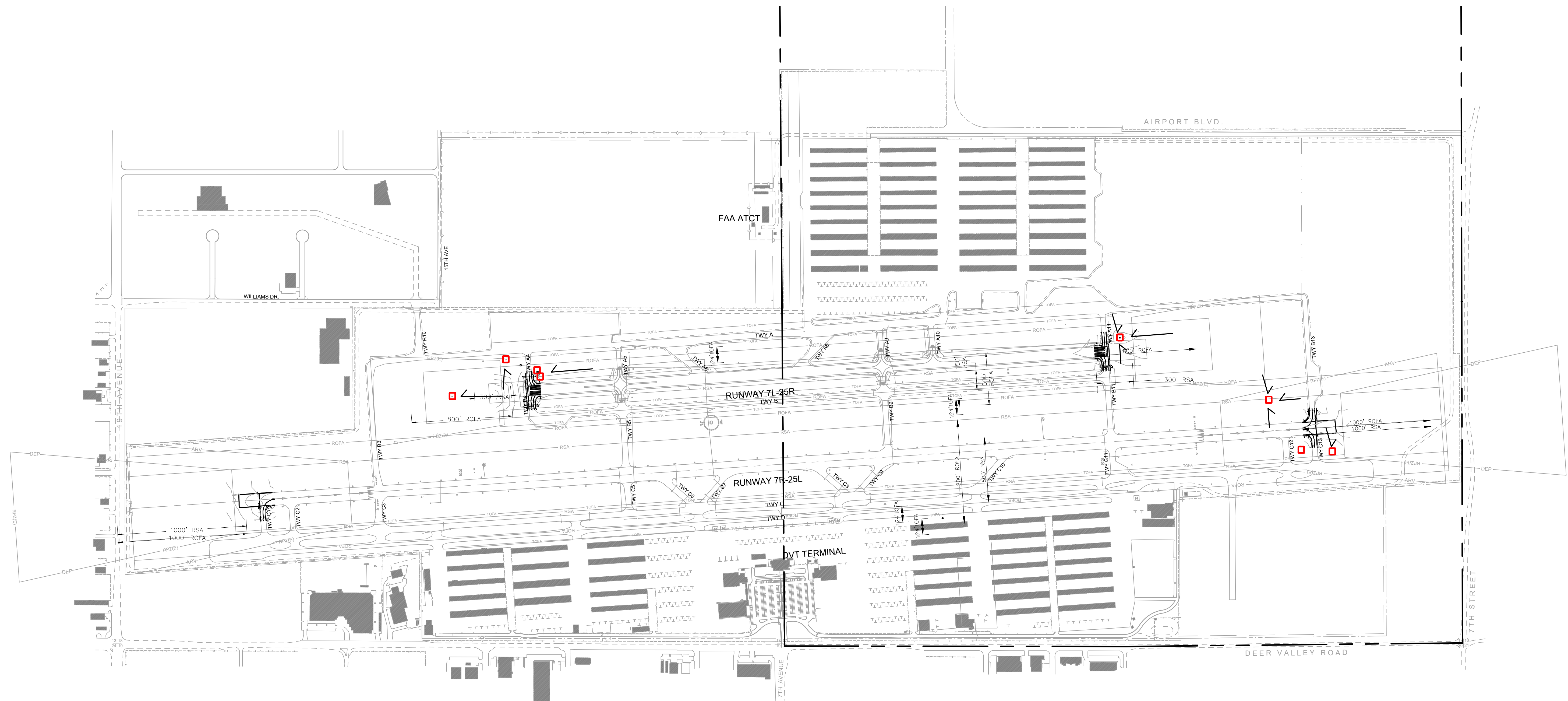
Designed by: OAC  
 Drawn by: RSC  
 Checked by: MS  
 Date: 2/1/2023  
 Dwg scale: AS NOTED  
 CIP NO.(S): AV31000094

Sheet Overview Title  
**CONSTRUCTION SAFETY  
 AND PHASING PLAN 3**

Sheet Reference Number:  
**G109**  
 Sheet 9 of 37



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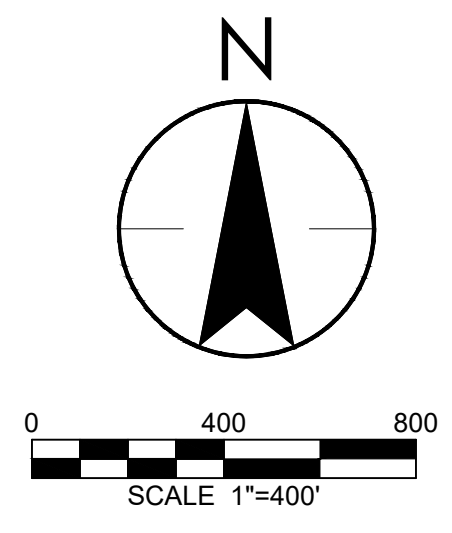


**LEGEND**

- EXISTING CATCH BASIN  
(CONTRACTOR TO VERIFY LOCATION)
- TEMPORARY SEDIMENT BARRIER AND  
FILTER FABRIC INLET PROTECTION.  
SEE DETAIL SHEET 1, SHEET G111.
- ← FLOW ARROW

**GENERAL NOTES:**

1. A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT AND THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.
2. THE CITY OF PHOENIX AVIATION ENVIRONMENTAL DEPARTMENT, REBECCA GODLEY 602-821-4341, SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS.
3. THE NOTICE OF INTENT (NOI) SHALL BE COMPLETED AND SUBMITTED TO THE CITY OF PHOENIX ENVIRONMENTAL DEPARTMENT 48 HOURS BEFORE ANY CONSTRUCTION ACTIVITY.
4. THE SWPPP AND RELATED RECORDS MUST BE MADE AVAILABLE UPON REQUEST TO ADEQ AND THE CITY OF PHOENIX AVIATION ENVIRONMENTAL DEPARTMENT.
5. THE PRIME CONTRACTOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY FOURTEEN DAYS AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF OF INCH (1/2 INCH). THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING THEIR FINDINGS ON THE CONDITIONS OF THE SWPPP CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE CONTRACTOR'S REPORT IS TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CONSTRUCTION IS COMPLETE, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED AS DETERMINED BY THE OWNER'S REPRESENTATIVE OR HIS DESIGNEE.
6. THE PRIME CONTRACTOR OR OWNER SHALL AMEND THIS PLAN AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.
7. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED.
8. THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. ADDITIONALLY, THEY MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING.
9. THE CONTRACTOR MUST HAVE THE APPROVED SWPPP ISSUED IN THEIR NAME.
10. THE CONTRACTOR MUST ALSO MAINTAIN RECORDS WITH THE FOLLOWING INFORMATION:
  - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR IN A PARTICULAR AREA;
  - THE DATES WHEN CONSTRUCTION ACTIVITIES CEASE IN AN AREA, TEMPORARILY OR PERMANENTLY; AND
  - THE DATES WHEN AN AREA IS STABILIZED, TEMPORARILY OR PERMANENTLY; AND
  - THE DATES WHEN ANY MAINTENANCE/REPLACEMENT OR REMOVAL OF REQUIRED BMPs.
11. CONSTRUCTION SITES ARE DYNAMIC IN NATURE. THE CONTRACTOR IS REQUIRED TO MAINTAIN FULL COMPLIANCE WITH THE GENERAL CONSTRUCTION PERMIT, AS ISSUED BY ADEQ, TO MAINTAIN AN EFFECTIVE SWPPP. AS SUCH, THIS PLAN MUST BE UPDATED TO ACCURATELY REFLECT SITE FEATURES AND OPERATIONS. THE PLAN MAY ALSO BE AMENDED IF IT IS DETERMINED BY THE OWNER'S REPRESENTATIVE AS NOT EFFECTIVE AT MINIMIZING POLLUTANT DISCHARGE FROM THE SITE.
12. ONCE THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS MET THE FINAL STABILIZATION REQUIREMENTS OF THE PERMIT, THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OF TERMINATION (NOT) WITH ADEQ, WITH A COPY TO THE CITY OF PHOENIX AVIATION ENVIRONMENTAL DEPARTMENT, TO TERMINATE COVERAGE UNDER THE PERMIT.



PER CITY OF PHOENIX CITY  
 CODE CHAPTER 2, SECTION  
 2-28, THESE PLANS ARE FOR  
 OFFICIAL USE ONLY AND MAY  
 BE USED FOR ANY OTHER  
 PURPOSES EXCEPT AS  
 SPECIFICALLY NOTED  
 OTHERWISE. THE CONTRACTOR  
 IS REQUIRED TO FULFILL THE  
 OBLIGATIONS OF THE  
 CONTRACTOR'S CONTRACT  
 WITH THE CITY OF PHOENIX.

NO.	REVISIONS /	SUBMISSIONS	DATE

**PHX DVT EYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
**PHOENIX DEER VALLEY AIRPORT**  
**RUNWAYS 7L/25R AND 7R/25L BLAST PADS**  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

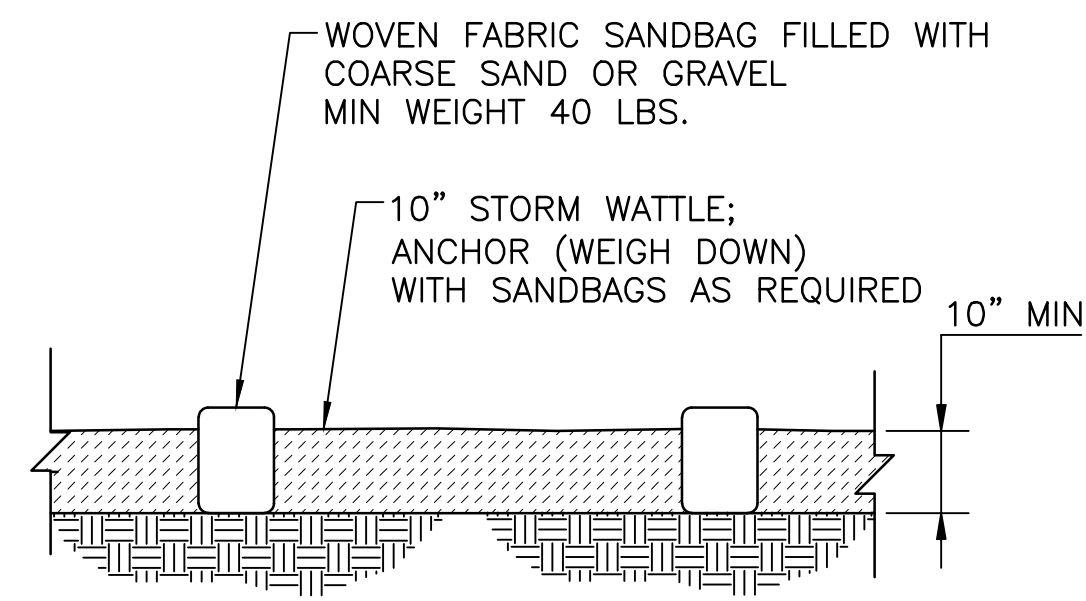
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			Dwg. scale: AS NOTED
CIP NO.(S): AV31000094			

Sheet Overview Title  
**(SWPPP) TEMPORARY  
 EROSION CONTROL PLAN**

Sheet Reference  
**G110**  
 Sheet 10 of 38



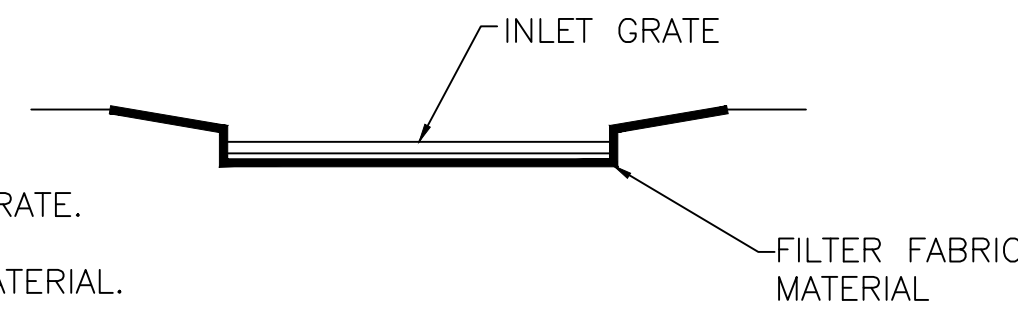
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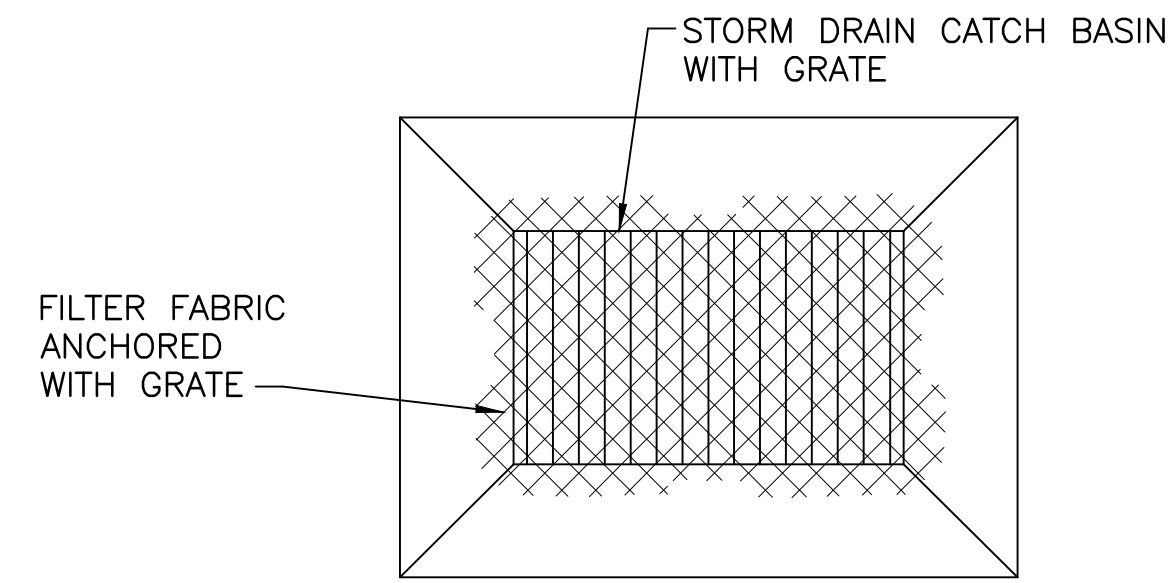
**DETAIL 1**  
**ORGANIC FILTER BARRIER**  
 NTS

NOTES:

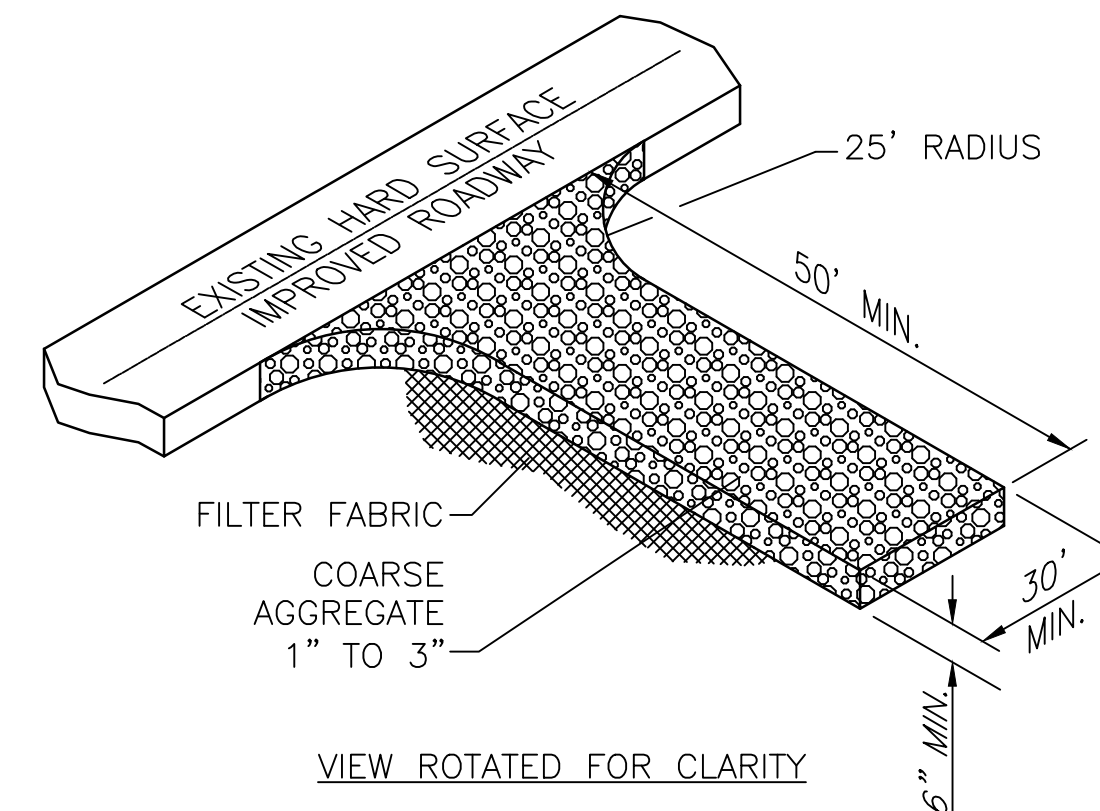
1. REMOVE CATCH BASIN GRATE.
2. PLACE FILTER FABRIC MATERIAL.
3. REPLACE TRENCH DRAIN GRATE.



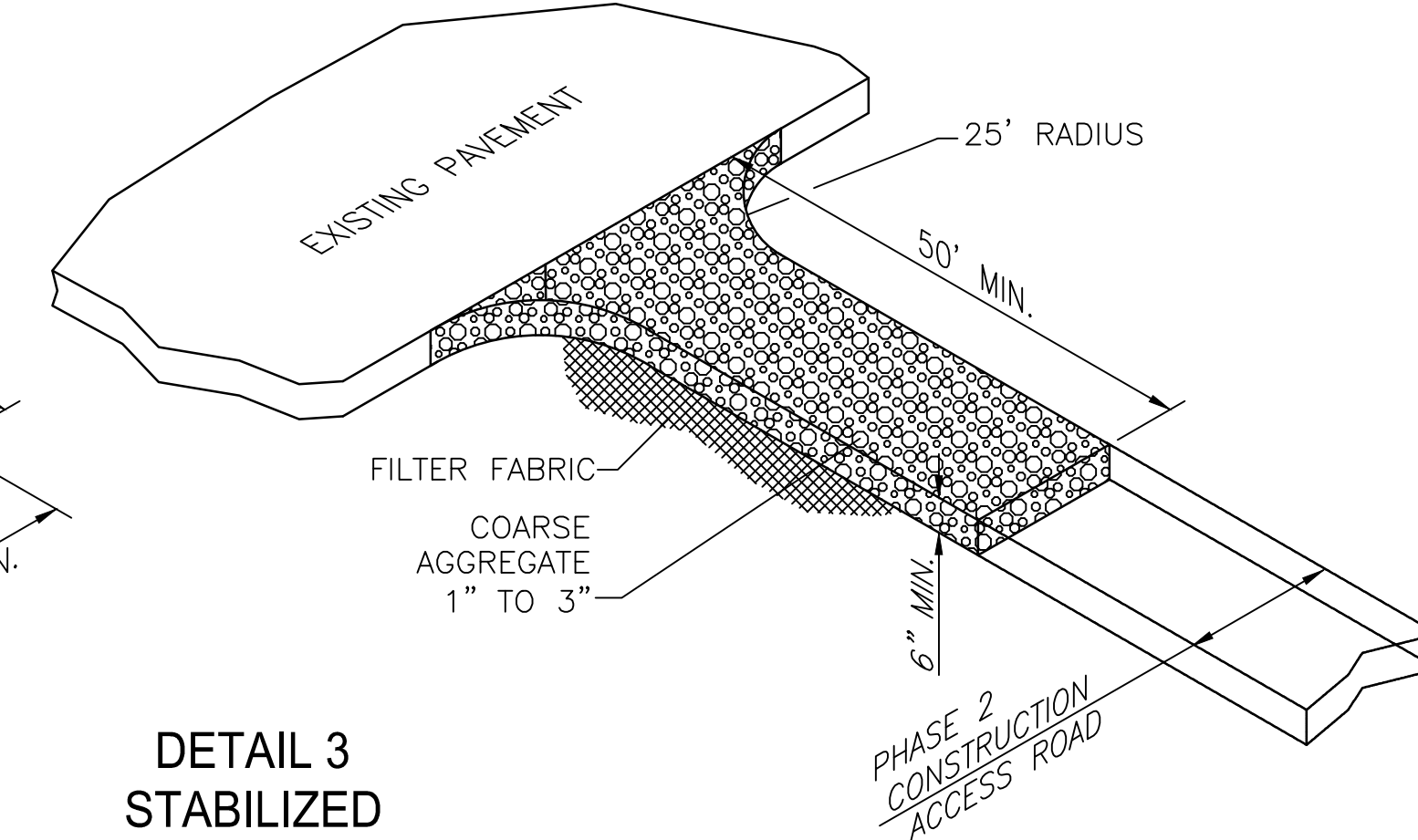
**CATCH BASIN CROSS-SECTION**



**DETAIL 2**  
**STORM DRAIN CATCH BASIN**  
**PROTECTION PLAN**  
 NTS



**DETAIL 3**  
**STABILIZED**  
**CONSTRUCTION ENTRANCE**  
 NTS



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NO.	REVISIONS / SUBMISSIONS	DATE

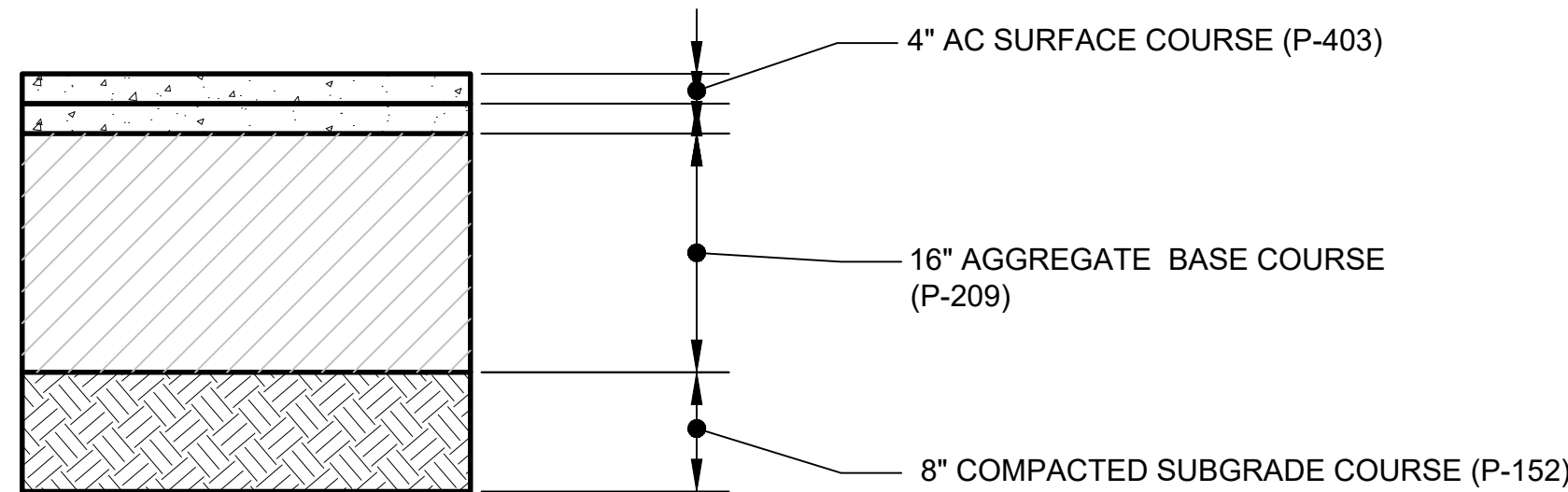
**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
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Designed by: OAC	Drawn by: RSC
Checked by: MS	Date: 2/1/2023
Dwg. scale: AS NOTED	CP No.(S): AV31000094

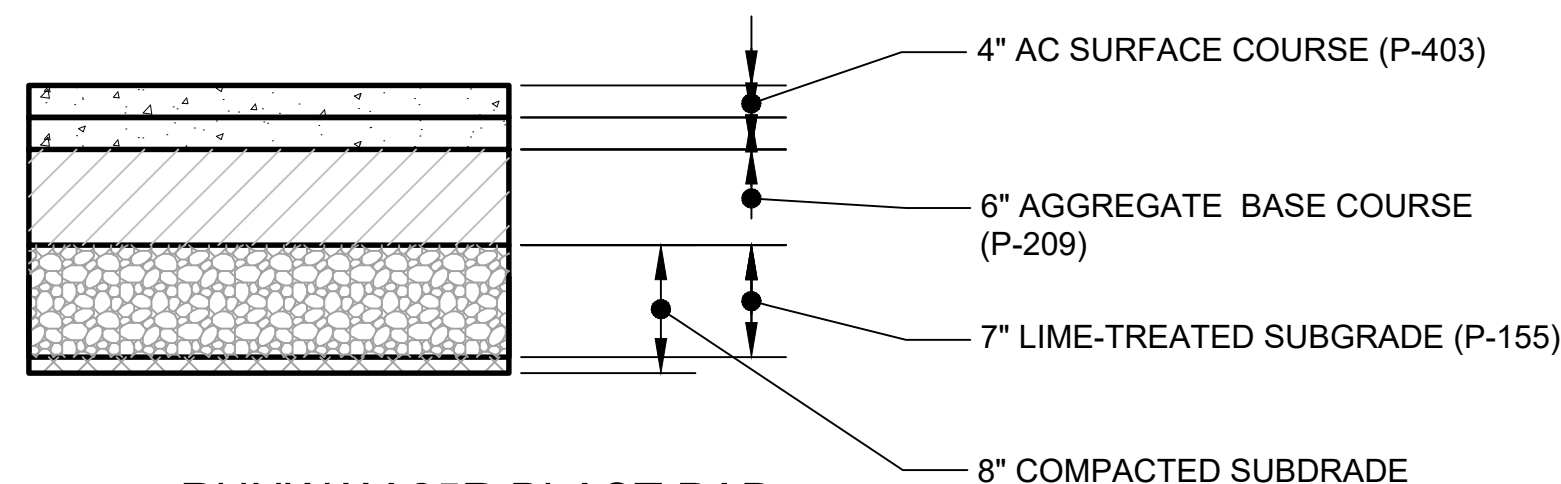
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**(SWPPP) TEMPORARY**  
**EROSION CONTROL DETAILS**

Sheet Reference Number:  
**G111**  
 Sheet 11 of 38



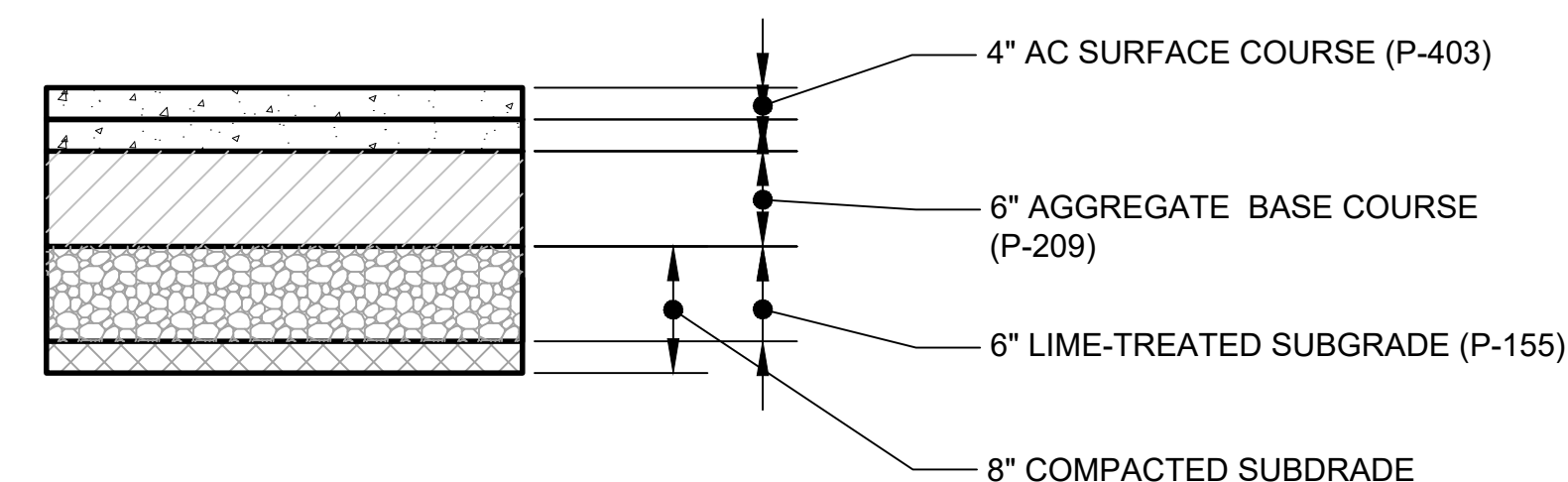


1 RUNWAY 7R/25L BLAST PADS  
PAVEMENT SECTION  
NTS

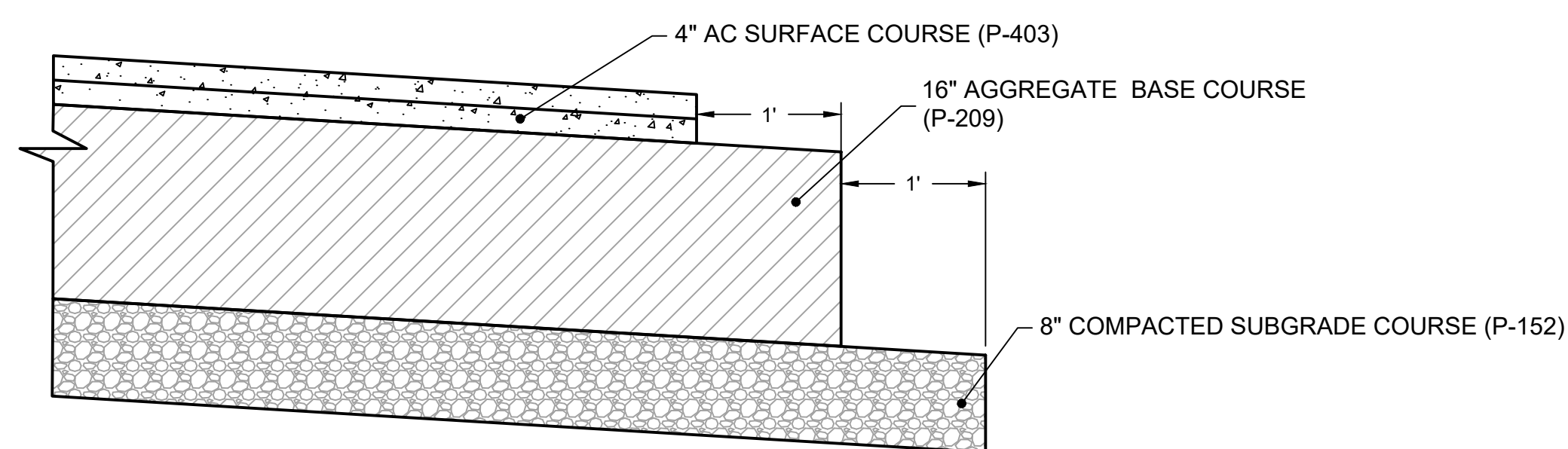


2 RUNWAY 25R BLAST PAD  
PAVEMENT SECTION  
NTS

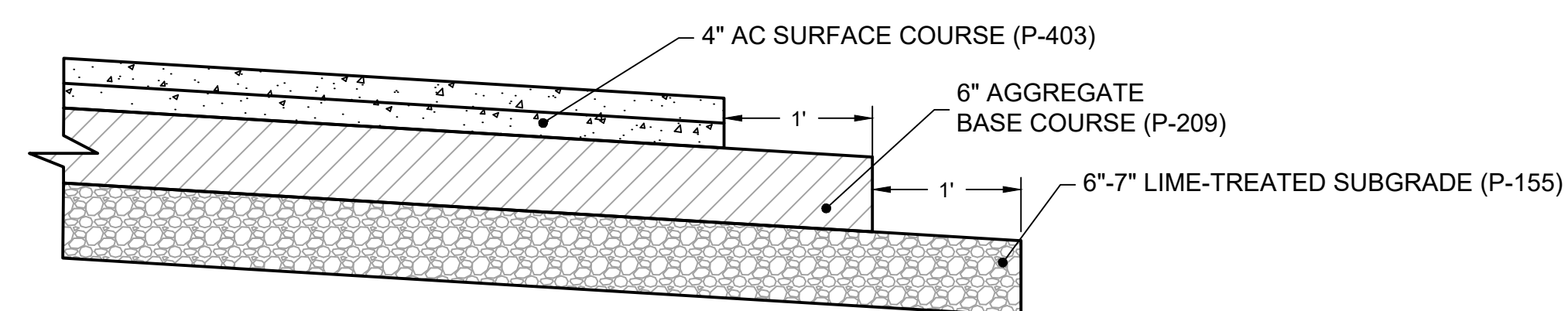
25R IS STRUCTURAL PAVEMENT FOR RUNWAY PAVEMENT



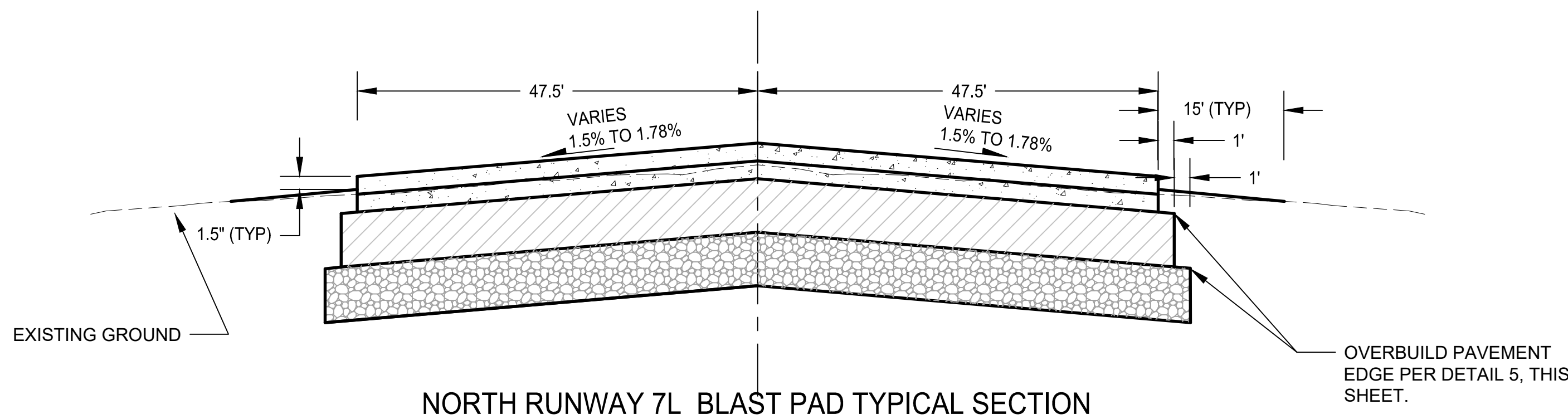
3 RUNWAY 7L BLAST PAD  
PAVEMENT SECTION  
NTS



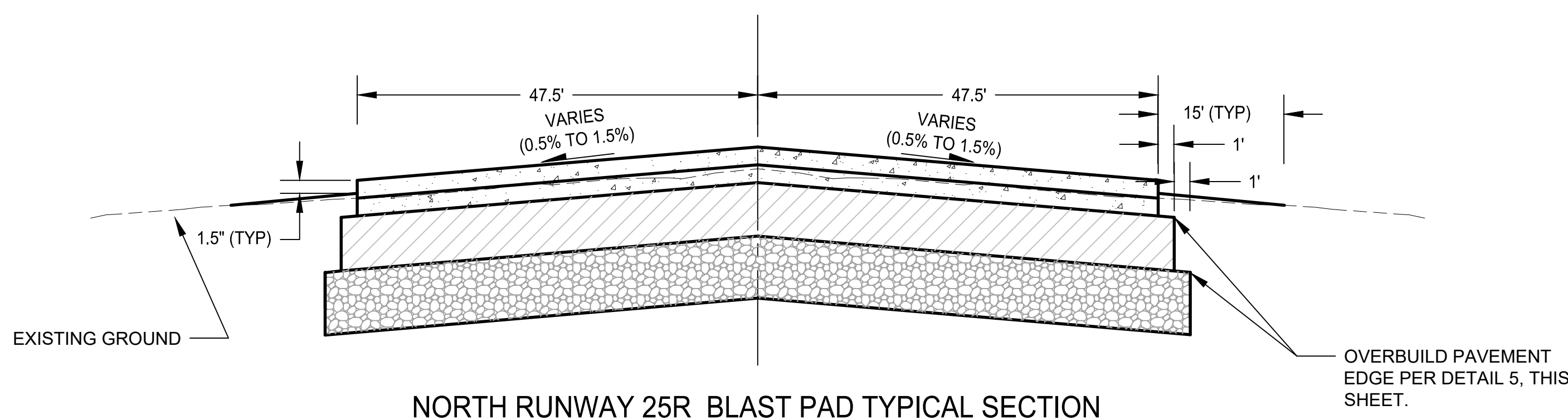
4 RUNWAY 7R/25L COURSE EDGE DETAIL  
N.T.S



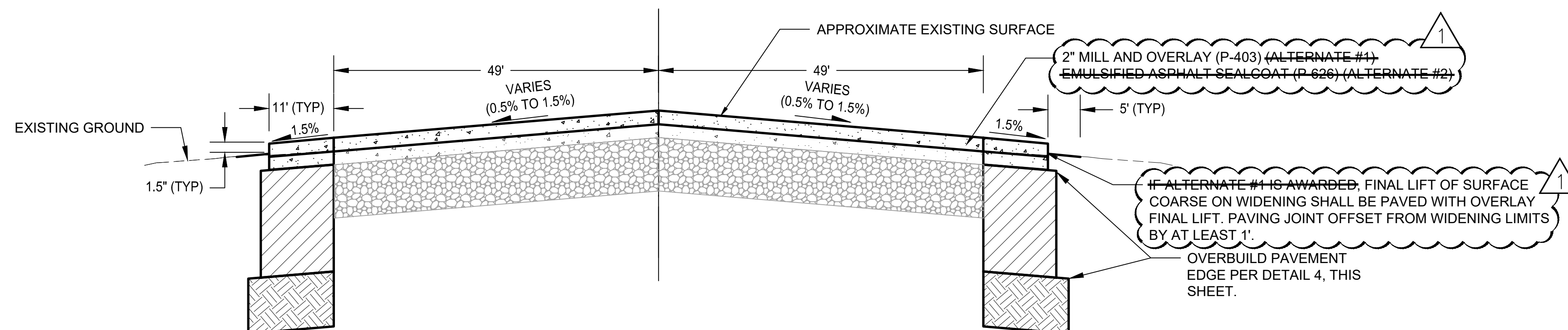
5 RUNWAY 7L/25R COURSE EDGE DETAIL  
N.T.S



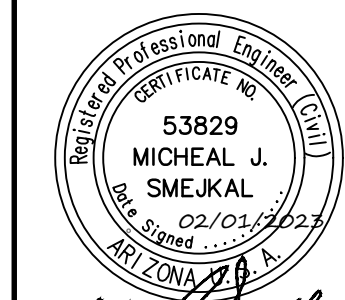
NORTH RUNWAY 7L BLAST PAD TYPICAL SECTION  
NTS  
STA 98+49 TO 99+99



NORTH RUNWAY 25R BLAST PAD TYPICAL SECTION  
NTS  
STA 144+64 TO 145+50



RUNWAY 7R/25L BLAST PADS WIDENING AND REHABILITATION  
TYPICAL SECTION  
NTS  
STA 8+46 TO STA 9+96 AND  
STA 91+93 TO STA 93+43



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY OF PHOENIX. CONTRACTOR'S OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE
1	REMOVE SEAL COAT ALTERNATE	5/01/23

**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: OAC	Drawn by: RSC	Checked by: MS	Date: 2/1/2023
		Dwg. scale: AS NOTED	

Sheet Overview Title  
**TYPICAL SECTIONS**

Sheet Reference Number:  
**G112**  
Sheet 12 of 38



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**BASIS OF SURVEY**

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE NAD83  
 ZONE: ARIZONA CENTRAL  
 DATUM: NORTH AMERICAN 1983

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)  
 TRIMBLE R8/R10 GPS EQUIPMENT AND TRIMBLE S6/S7 WAS USED FOR ALL FIELD MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY LAND SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00016 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00

ALL BEARINGS ARE GROUND/GRID BEARINGS  
 ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)  
 ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)

**BASIS OF BEARING**

THE BASIS OF BEARING FOR THIS SURVEY IS S0°07'15"E FOR THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 4 NORTH, RANGE 3 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, AS CALCULATED FROM A PLSS SUBDIVISION RECORD OF SURVEY MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORDED IN BOOK 704, PAGE 32, MARICOPA COUNTY RECORDS.

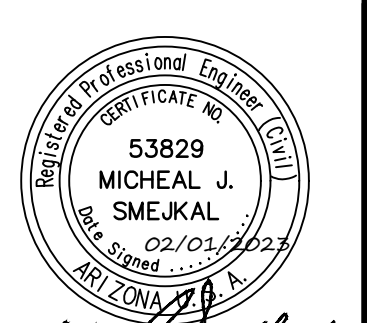
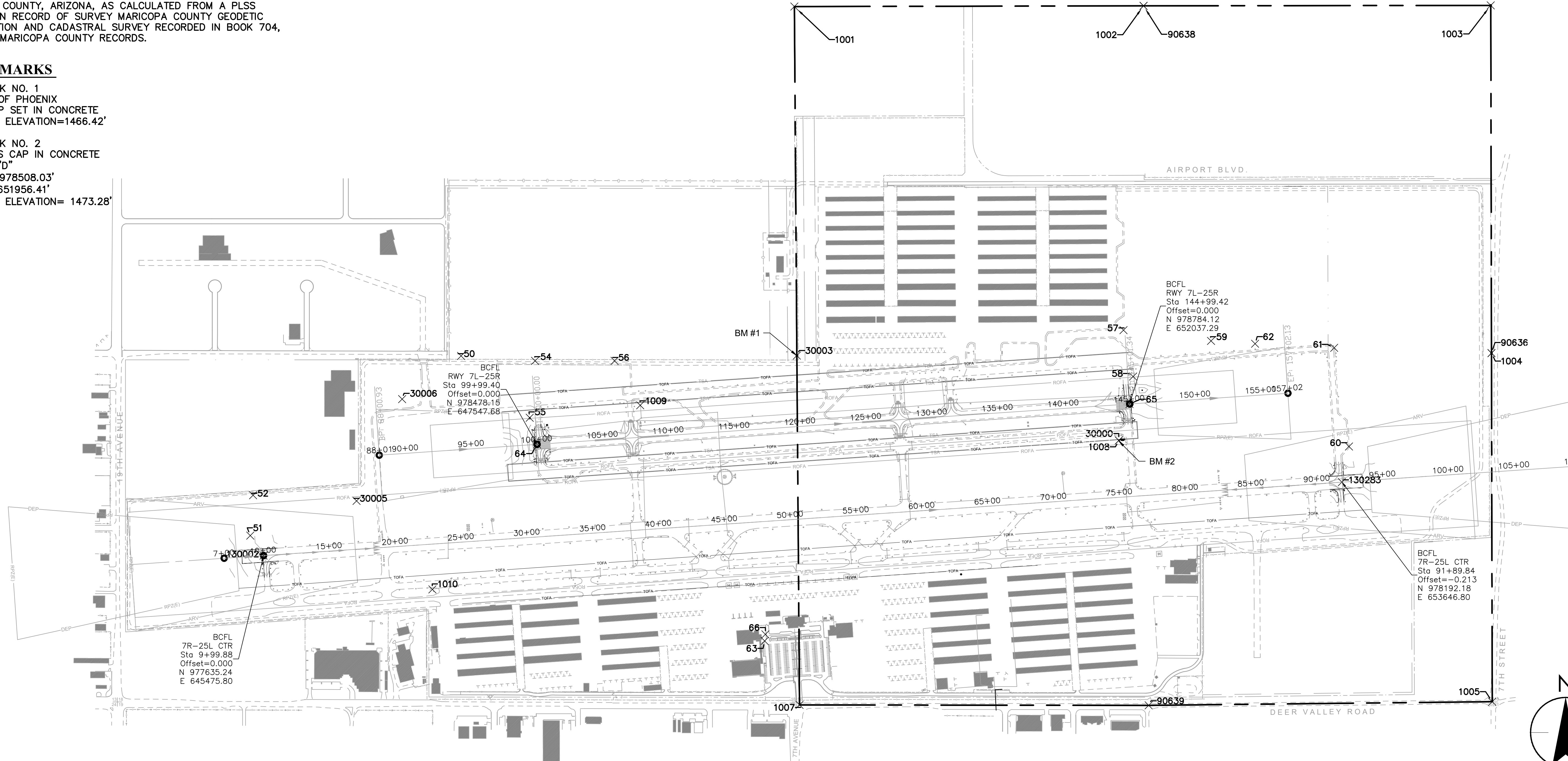
**BENCHMARKS**

BENCHMARK NO. 1  
 FND CITY OF PHOENIX  
 BRASS CAP SET IN CONCRETE  
 (NAVD 88) ELEVATION=1466.42'

BENCHMARK NO. 2  
 FND BRASS CAP IN CONCRETE  
 STAMPED "D"  
 NORTING: 978508.03'  
 EASTING: 651956.41'  
 (NAVD 88) ELEVATION= 1473.28'

Point #	Elevation	Northing	Easting	Description
50	1453.65	979148.89	646972.21	SM *LVL EL .625RBR CTRL CAP
51	1438.80	977786.67	645374.95	SM *LVL EL .5RBR CTRL CAP
52	1439.64	978093.00	645396.43	SM *LVL EL .5RBR CTRL CAP
54	1456.67	979111.27	647532.93	SM *LVL EL .5RBR CTRL CAP
55	1452.79	978679.88	647492.63	SM *LVL EL MAG/WASHER IN CONC GRT SURROUND
56	1460.30	979111.40	648135.41	SM *LVL EL .5RBR CTRL CAP
57	1476.47	979344.05	651992.00	SM *LVL EL .5RBR CTRL CAP
58	1475.43	978992.43	652064.42	SM *LVL EL MAG/WASHER IN CONC GRT SURROUND
59	1481.31	979262.37	652654.88	SM *LVL EL .5RBR CTRL CAP
60	1479.10	978462.00	653700.36	SM *LVL EL MAG/WASHER IN CONC CORE SAMPLE PATCH
61	1482.59	979209.87	653588.20	SM *LVL EL .5RBR CTRL CAP
62	1481.88	979241.09	652988.85	SM *LVL EL .5RBR CTRL CAP
63	1455.41	976988.05	649272.76	SM *MAG/WASHER IN T/C
64	1455.29	978478.15	647547.68	FM *3IN BCFL ADDED PUNCH "RUNWAY LENGTH 4500"
65	1476.97	978784.12	652037.29	FM *3IN BCFL ADDED PUNCH "RUNWAY LENGTH 4500"
66	1455.26	977038.13	649278.04	SM *MAG/WASHER IN PVMT
1001	1472.97	981797.16	649498.00	GDACS *3IN MC BC 44573-1M

Point #	Elevation	Northing	Easting	Description
1002	1491.88	981802.54	652143.70	GDACS *MC AC 44572-1M
1003	1523.96	981805.96	654774.67	GDACS *3IN MC BC 44571-1M VERT CHK
1004	1489.42	979169.75	654780.23	GDACS *3IN MC BC FL 44560-1M VERT CHK
1005	1472.04	976527.66	654785.86	GDACS *3IN MC BC FL 44555-21
1007	1450.33	976503.26	649536.87	GDACS *3IN COP BCHH 44557-1
1008	1473.00	978508.03	651956.41	CP *MON D AA3547 PAC HORIZ
1009	1458.20	978774.38	648329.79	CP *DVT C AA3549 SAC HORIZ CHK
1010	1443.80	977378.97	646754.94	CP *DVT B AA3548 SAC HORIZ CHK
30000	1473.28	978508.03	651956.41	FM *COP BC IN CONC STAMPED D HELD HZ
30003	1466.42	979151.24	649516.60	FM *3IN COP BC IN CONC 1/4 S18/S17 HELD VERT
30005	1442.53	978049.71	646180.15	FM *LVL EL CHZX ON NORTH HDWL
30006	1448.76	978821.18	646525.81	FM *LVL EL .5RBR NO ID
90636	1489.37	979169.81	654780.16	FM *MCBC RLS 33307 2004
90638	1492.03	981802.26	652143.69	FM *RBR BENT SLY CAP MISSING
90639	1461.04	976499.91	652182.30	FM *COP BCFL W/PUNCH MON REPLACED
130002	1440.08	977635.48	645475.78	FM *COP BCFL W/PUNCH
130283	1478.31	978192.16	653646.62	FM *COP BCFL W/PUNCH



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC  
 Drawn by: RSC  
 Checked by: MS  
 Date: 2/1/2023  
 Dwg scale: AS NOTED  
 CIP NO.(S): AV31000094

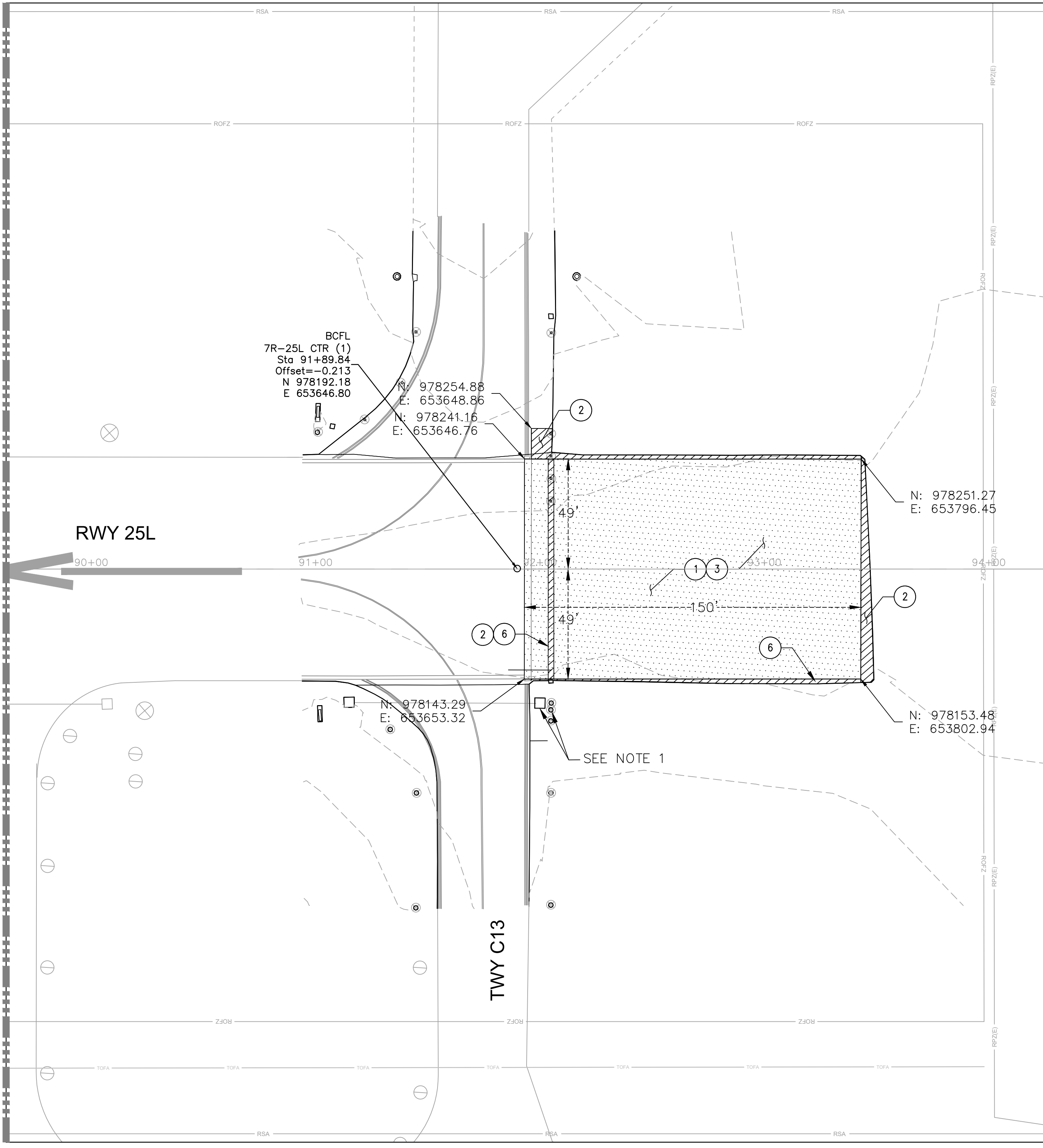
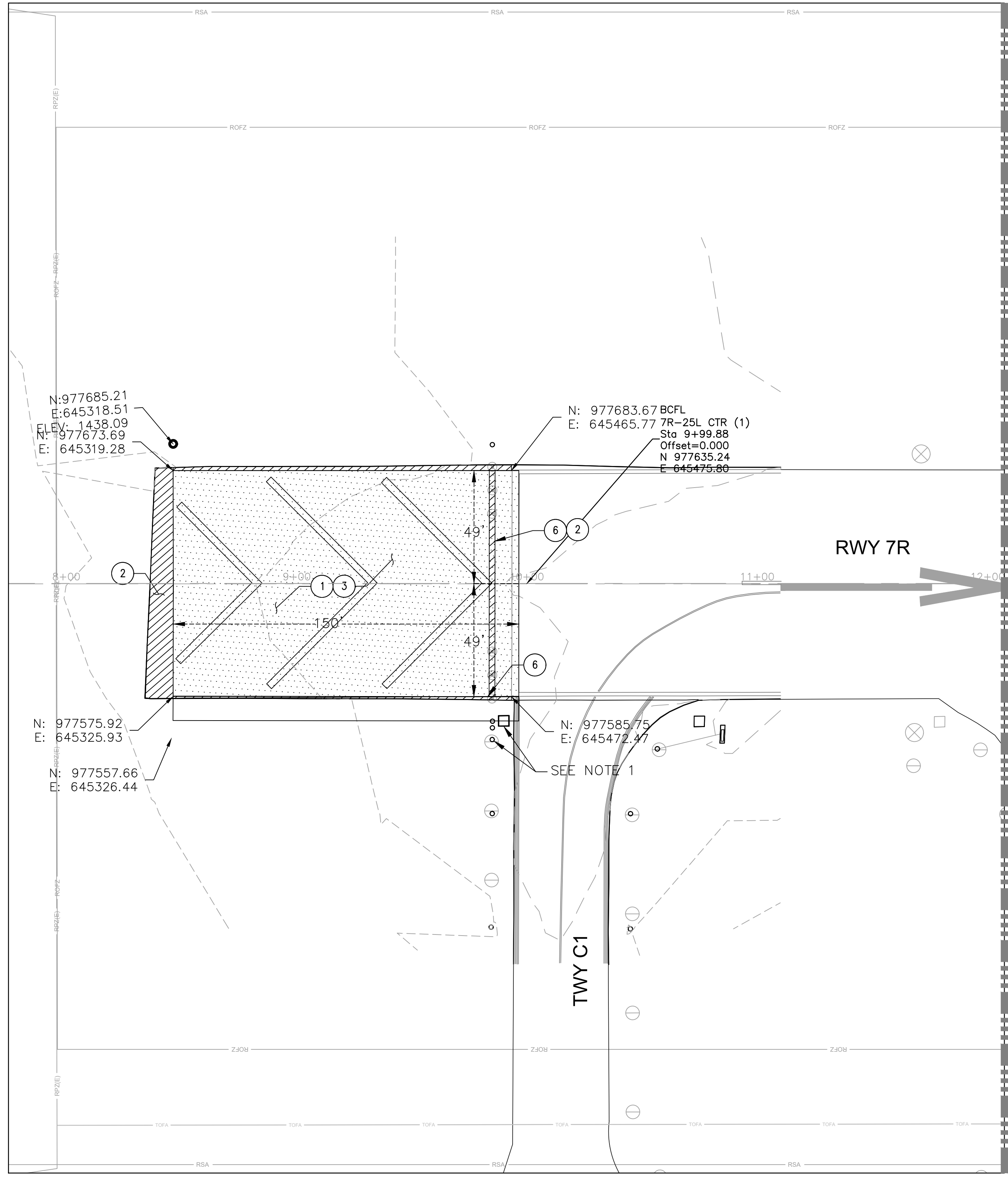
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**SURVEY CONTROL PLAN**

Sheet Reference Number:  
**C101**  
 Sheet 13 of 38

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**CONSTRUCTION NOTES**

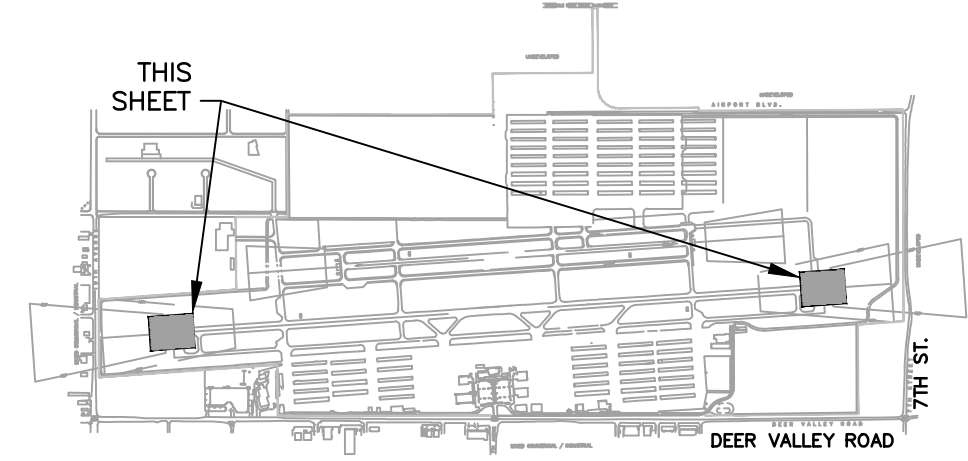
- ① 2" MILL TOP-MOST ASPHALT SECTION LIFT FROM EXISTING PAVEMENT SURFACE (ALT. 1) EMULSIFIED SEAL COAT (P 626) (ALT. 2)
- ② REMOVE EXISTING ASPHALT PAVEMENT SECTION, LIMITS PER PLAN
- ③ APPLY CRACK SEAL PRODUCT WHERE APPLICABLE/IF NEEDED
- ⑥ SAWCUT AC SECTION, LIMITS PER PLAN

**GENERAL NOTES**

1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
2. COLORED ROCK/MULCH SHOULDER MATERIAL SHALL BE CAREFULLY REMOVED AND REMAIN FREE OF CONTAMINATION AT ALL TIMES. REMOVED MATERIAL NOT IMMEDIATELY REPLACED DURING THIS PROJECT SHALL BE STORED AND STOCKPILED IN A LOCATION AS DIRECTED BY AIRPORT OFFICIALS FOR LATER USE.

**LEGEND**

- 2" MILL AND OVERLAY (ALT. 1) EMULSIFIED SEAL COAT (ALT. 2)
- AC PAVEMENT REMOVAL



**KEY MAP**  
NTS

N

0 30 60  
SCALE 1"=30'

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

Call 811 or click Arizona811.com



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NO.	REVISIONS / SUBMISSIONS	DATE
1	REMOVE SEALCOAT ALTERNATE	5/01/23

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 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
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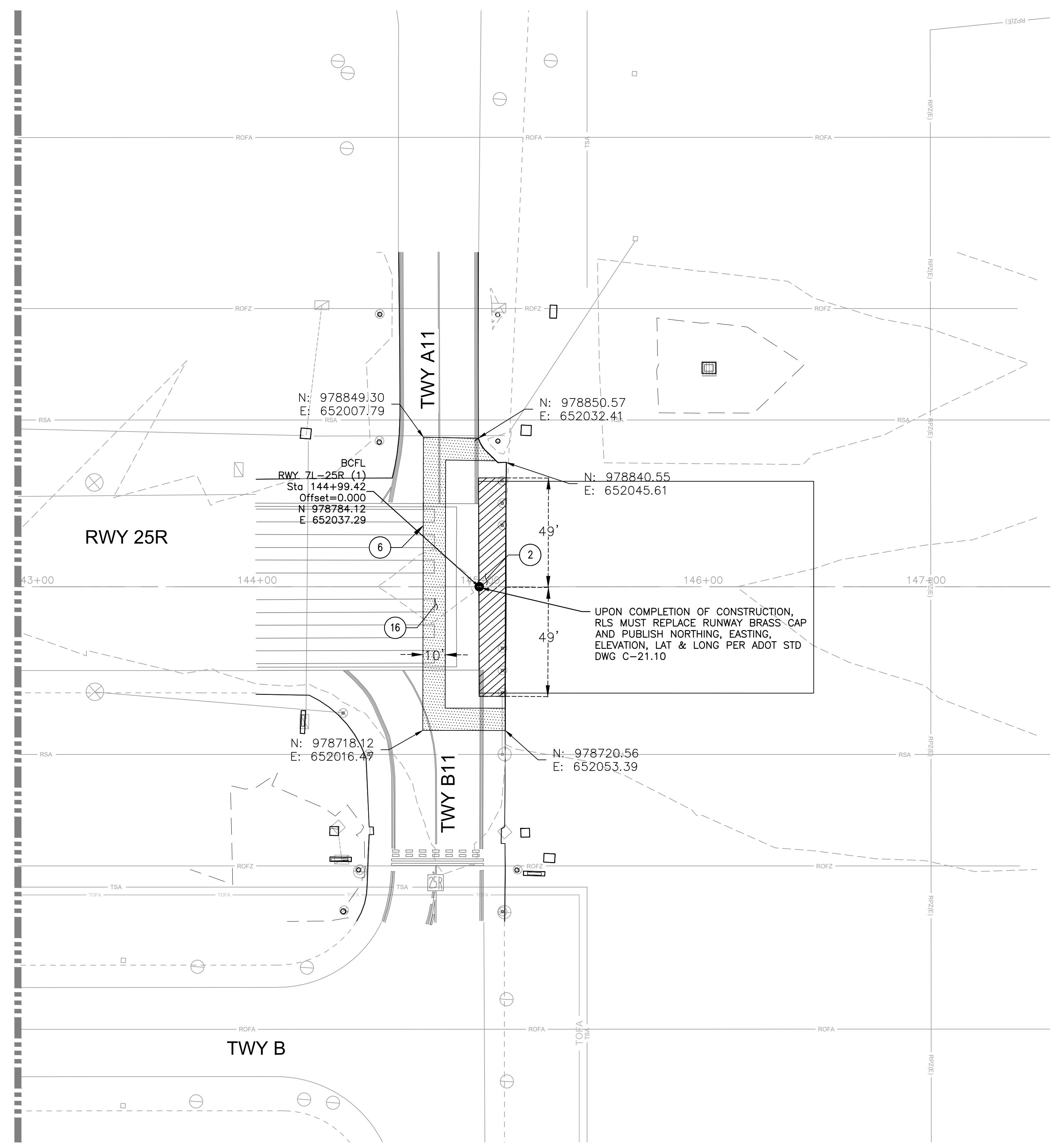
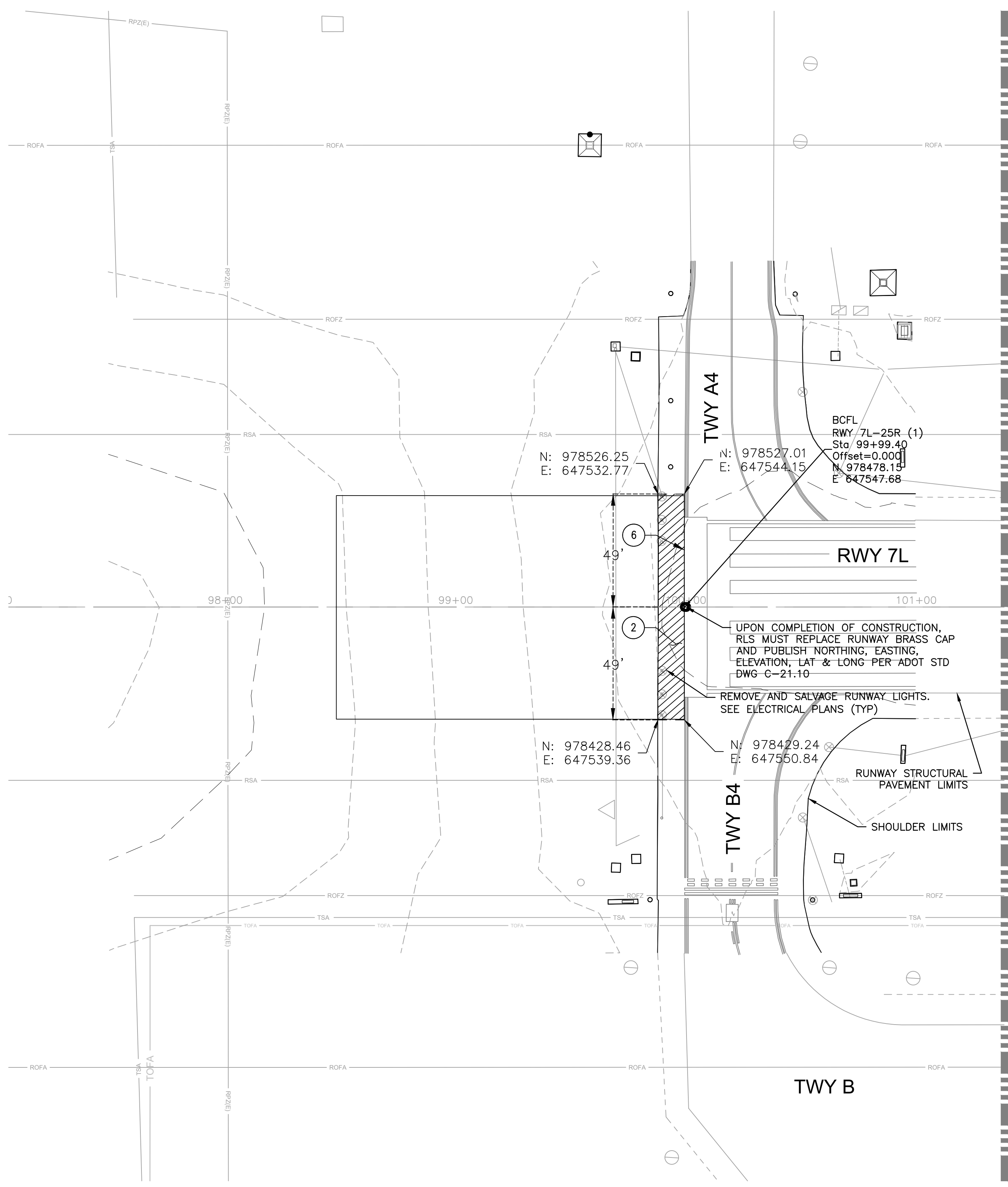
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Drawn by: MS	MS
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Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
 DEMOLITION PLAN 1**

Sheet Reference Number:  
**C201**  
 Sheet 14 of 38



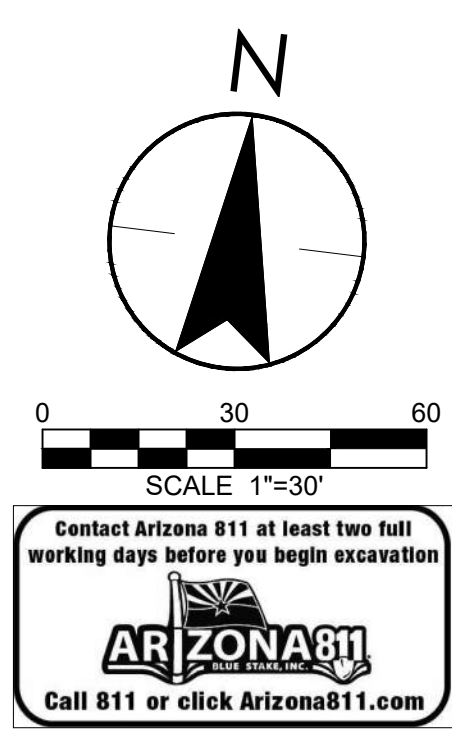
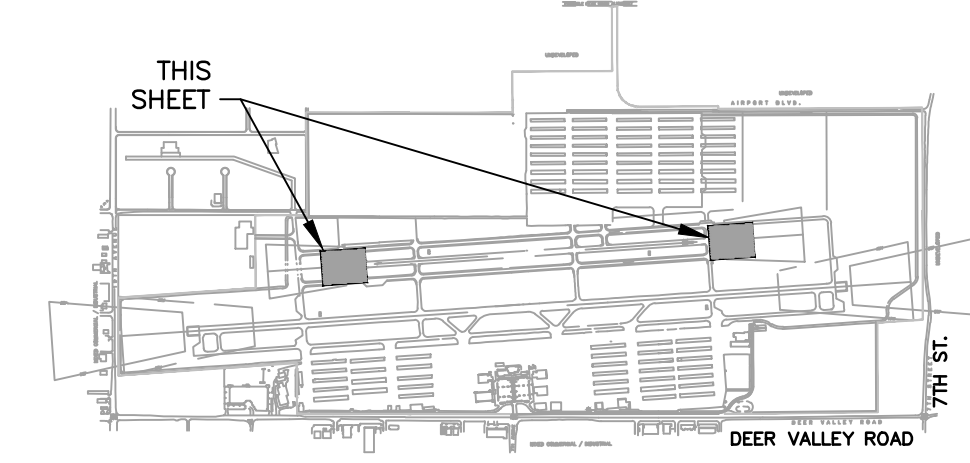
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- CONSTRUCTION NOTES**
- 16 — VARIABLE DEPTH MILL PAVEMENT (0"-2")
  - 2 — REMOVE EXISTING ASPHALT PAVEMENT SECTION, LIMITS PER PLAN
  - 6 — SAWCUT AC SECTION, LIMITS PER PLAN

- GENERAL NOTES**
1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
  2. COLORED ROCK/MULCH SHOULDER MATERIAL SHALL BE CAREFULLY REMOVED AND REMAIN FREE OF CONTAMINATION AT ALL TIMES. REMOVED MATERIAL NOT IMMEDIATELY REPLACED DURING THIS PROJECT SHALL BE STORED AND STOCKPILED IN A LOCATION AS DIRECTED BY AIRPORT OFFICIALS FOR LATER USE.

- LEGEND**
- VARIABLE DEPTH MILL (0"-2")
  - AC PAVEMENT REMOVAL



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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

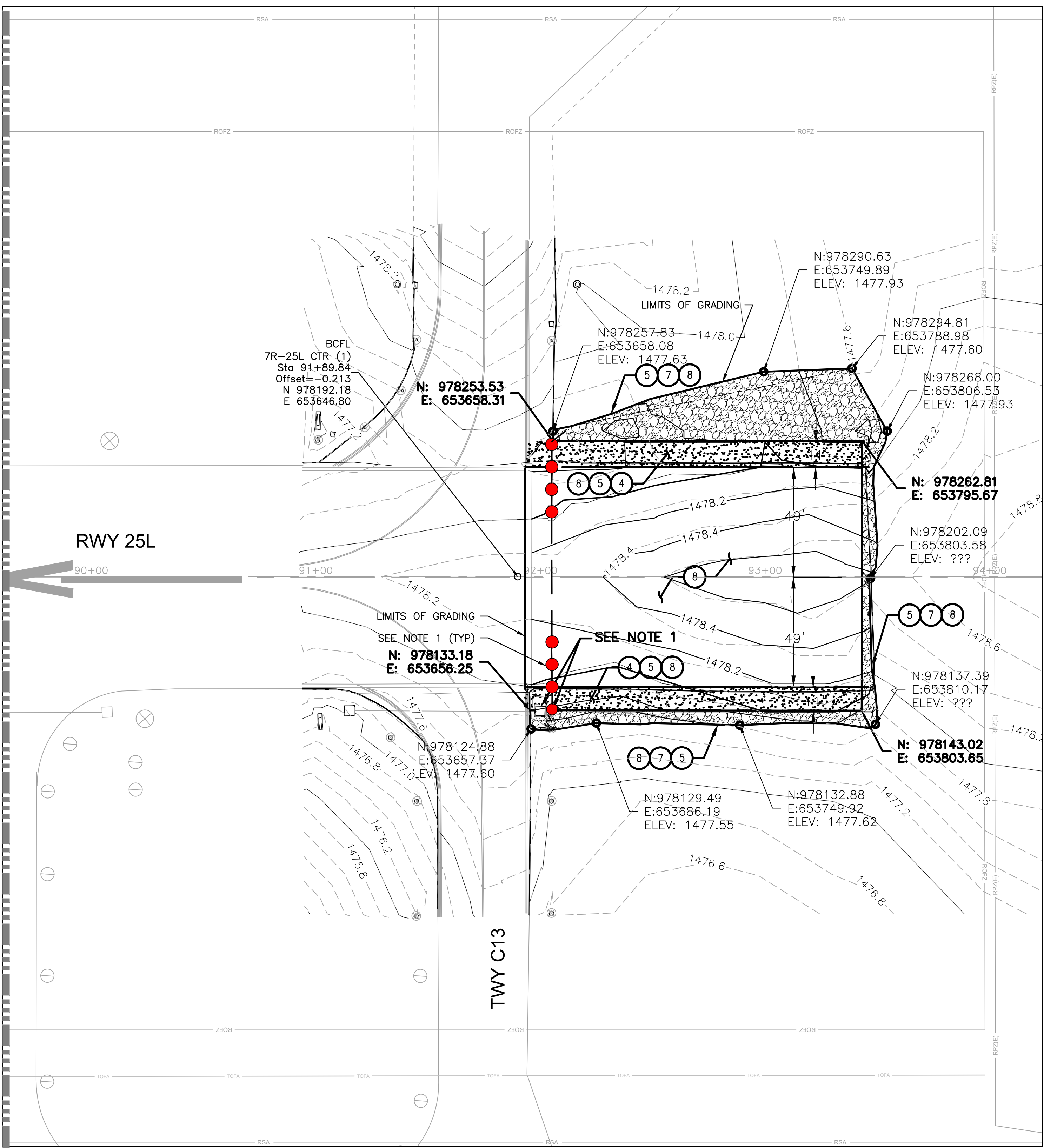
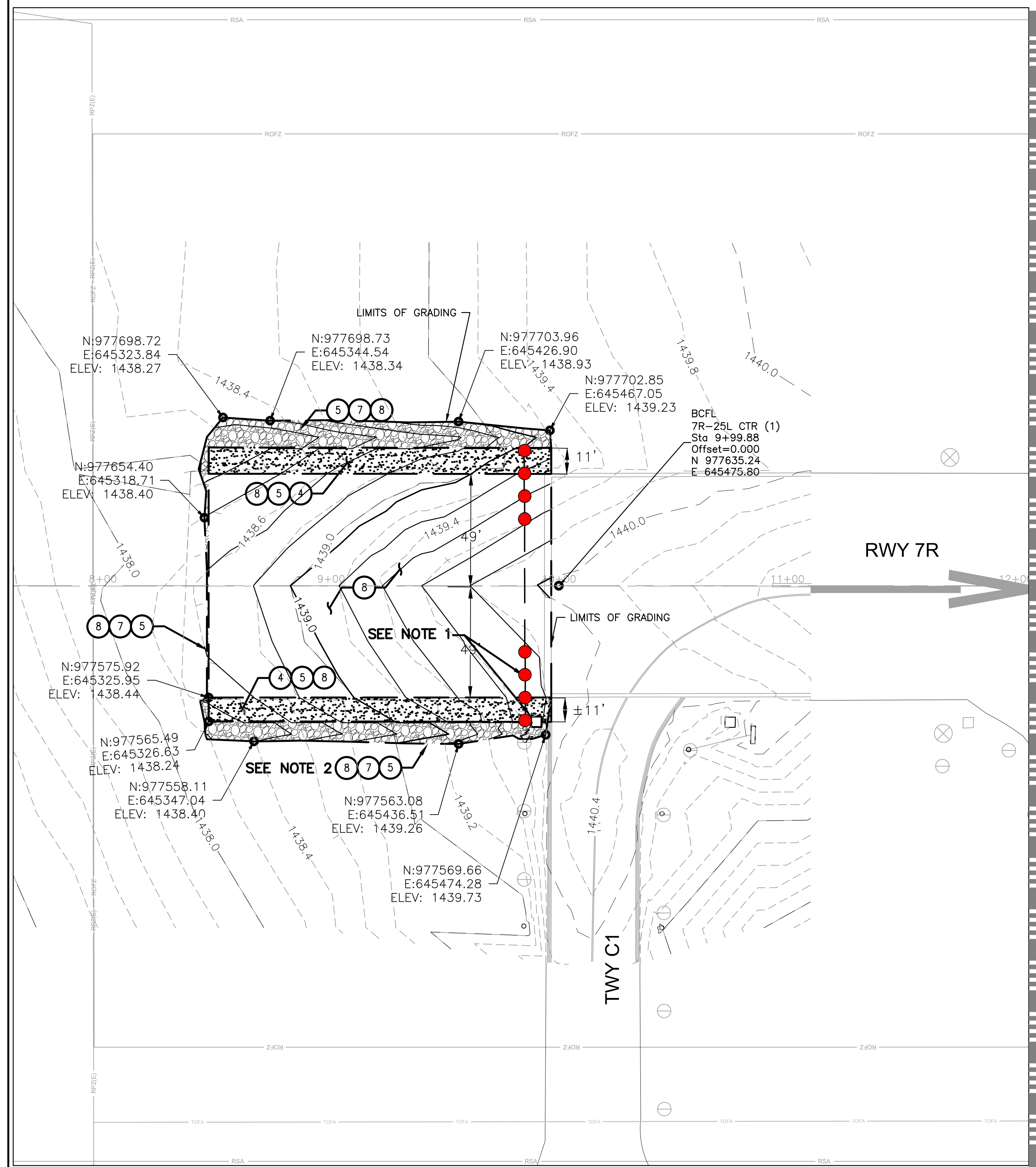
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 Drawn by: RSC  
 Checked by: MS  
 Date: 2/1/2023  
 Dwg scale: AS NOTED  
 CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
 DEMOLITION PLAN 2**

Sheet Reference Number:  
**C202**  
 Sheet 15 of 38



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**CONSTRUCTION NOTES**

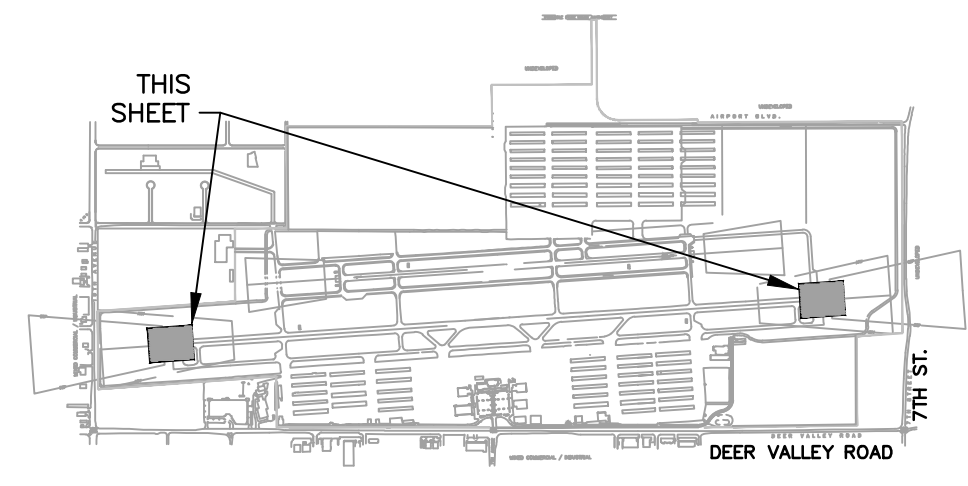
- ④ — CLEAR AND EXCAVATE EXISTING AREA TO MINIMUM DEPTH PER PAVEMENT DETAIL 1, SHEET G112
- ⑤ — REMOVE AND SALVAGE ROCK SHOULDER, LIMITS PER PLAN
- ⑦ — REPLACE ROCK SHOULDER WITH SALVAGED MATERIAL, LIMITS PER PLAN
- ⑧ — RE-GRADE AREA PER PROPOSED GRADES AND ELEVATIONS

**GENERAL NOTES**

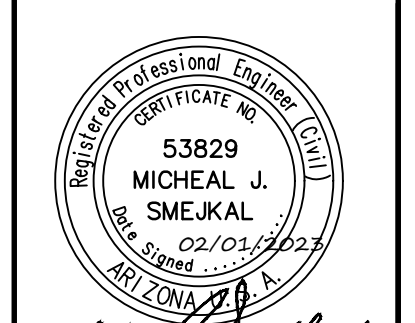
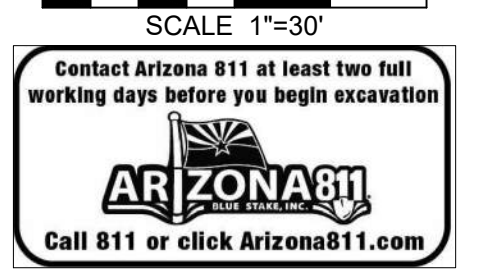
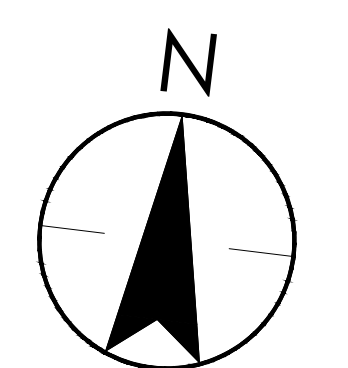
1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
2. COLORED ROCK/MULCH SHOULDER MATERIAL SHALL BE CAREFULLY REMOVED AND REMAIN FREE OF CONTAMINATION AT ALL TIMES. REMOVED MATERIAL NOT IMMEDIATELY REPLACED DURING THIS PROJECT SHALL BE STORED AND STOCKPILED IN A LOCATION AS DIRECTED BY AIRPORT OFFICIALS FOR LATER USE.
3. SEE SHEETS C601-C604 FOR CROSS SECTIONS.

**LEGEND**

- NEW AC PAVEMENT
- COLORED ROCK / MULCH TO BE SALVAGED AND REPLACED



**KEY MAP**  
NTS



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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC	Drawn by: RSC
Checked by: MS	Date: 2/1/2023
Dwg. scale: AS NOTED	CIP No.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
 GRADING AND DRAINAGE PLAN 1**

Sheet Reference Number:  
**C301**



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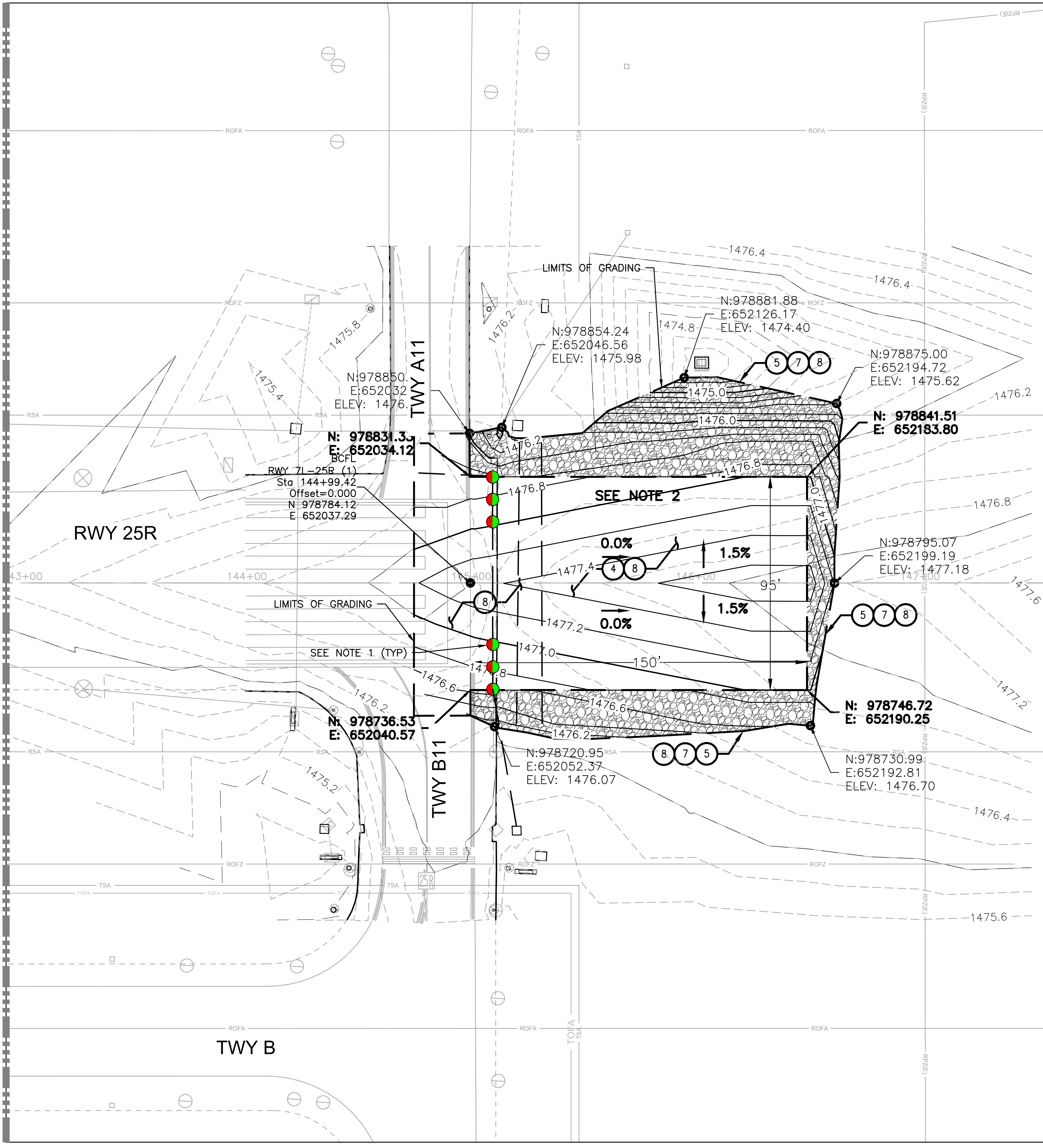
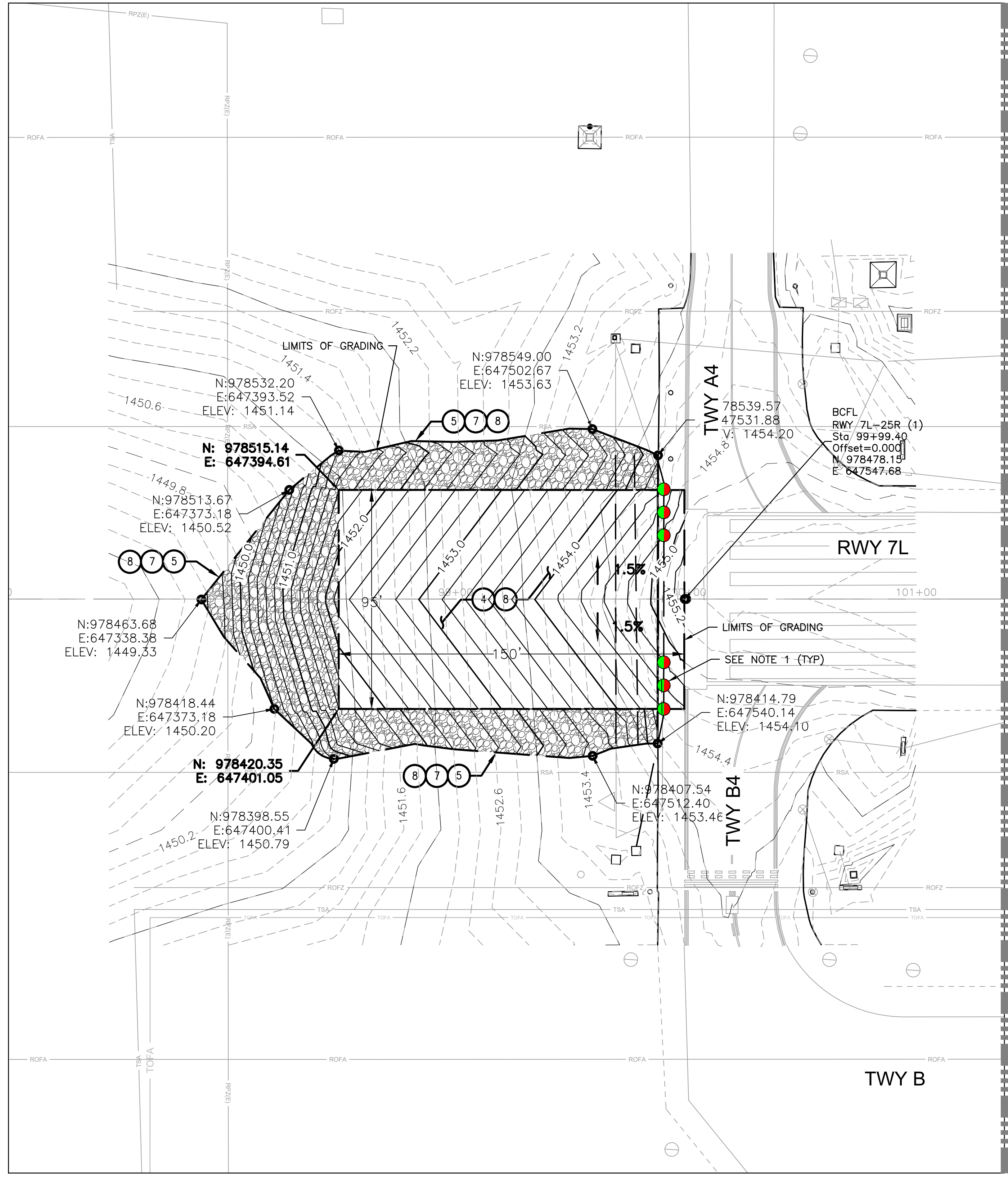
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC	Drawn by: RSC
Checked by: MS	Date: 2/1/2023
Dwg scale: AS NOTED	CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
 GRADING AND DRAINAGE PLAN 2**

Sheet Reference Number:  
**C302**  
 Sheet 17 of 38



**CONSTRUCTION NOTES**

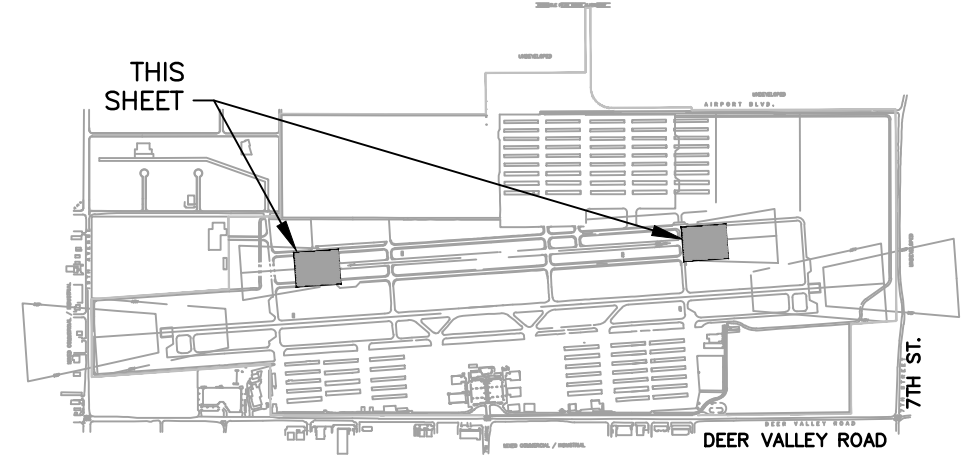
- ④ — CLEAR AND EXCAVATE EXISTING AREA TO MINIMUM DEPTH PER PAVEMENT DETAIL 2&3, SHEET G112
- ⑤ — REMOVE AND SALVAGE ROCK SHOULDER, LIMITS PER PLAN
- ⑦ — REPLACE ROCK SHOULDER WITH SALVAGED MATERIAL, LIMITS PER PLAN
- ⑧ — RE-GRADE AREA PER PROPOSED GRADES AND ELEVATIONS

**GENERAL NOTES**

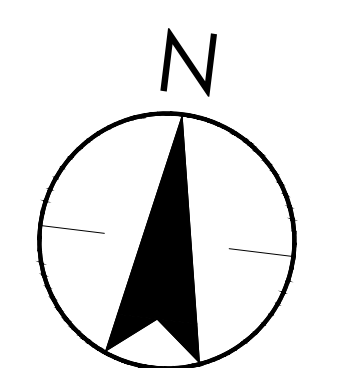
1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
2. NEW BLAST PAD EAST OF 25R TO HAVE 0.0% TRAVERSE GRADING IN PREPARATION FOR FUTURE RUNWAY EXTENSION.
3. COLORED ROCK/MULCH SHOULDER MATERIAL SHALL BE CAREFULLY REMOVED AND REMAIN FREE OF CONTAMINATION AT ALL TIMES. REMOVED MATERIAL NOT IMMEDIATELY REPLACED DURING THIS PROJECT SHALL BE STORED AND STOCKPILED IN A LOCATION AS DIRECTED BY AIRPORT OFFICIALS FOR LATER USE.

**LEGEND**

 COLORED ROCK / MULCH TO BE SALVAGED AND REPLACED



KEY MAP  
NTS



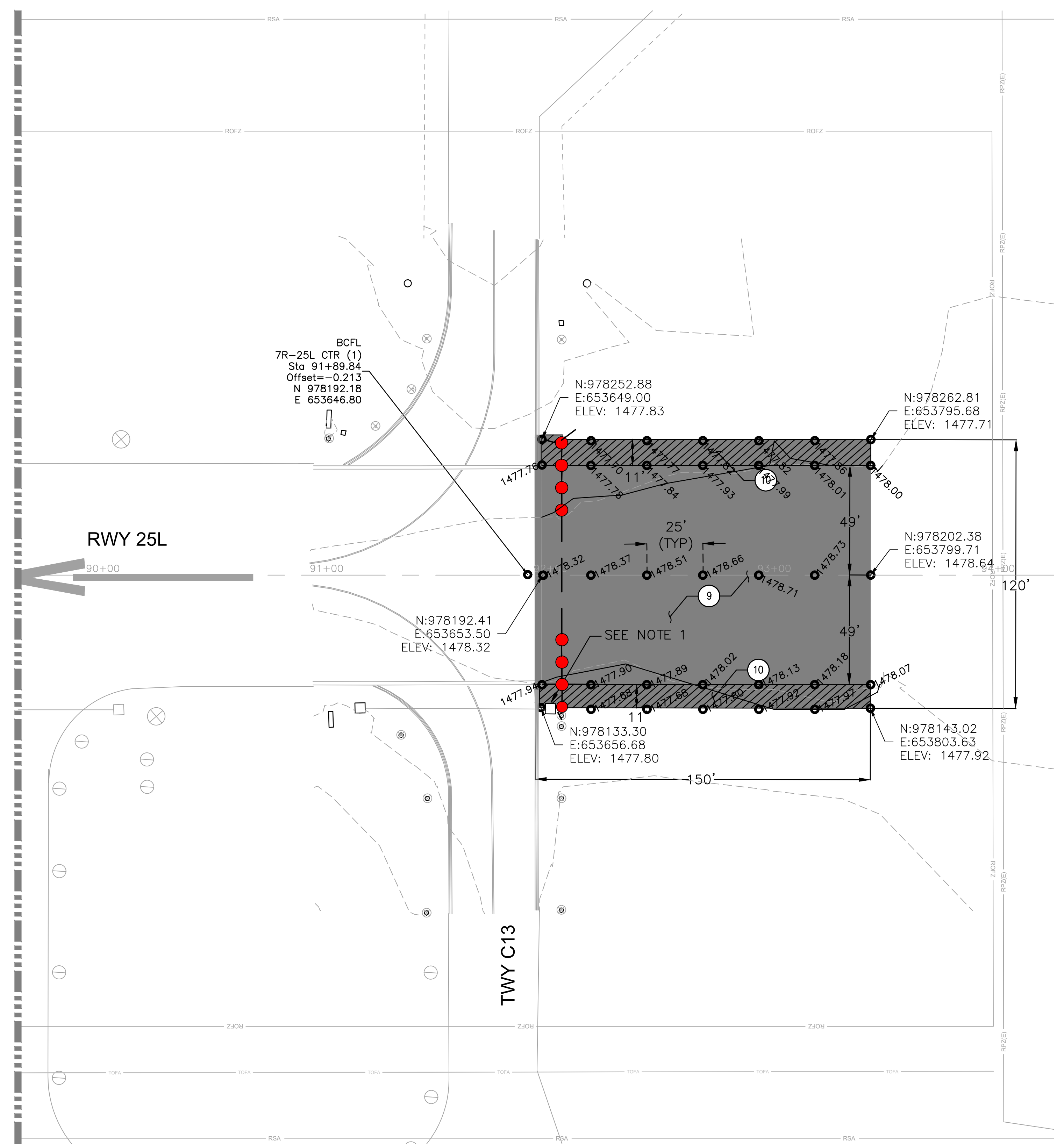
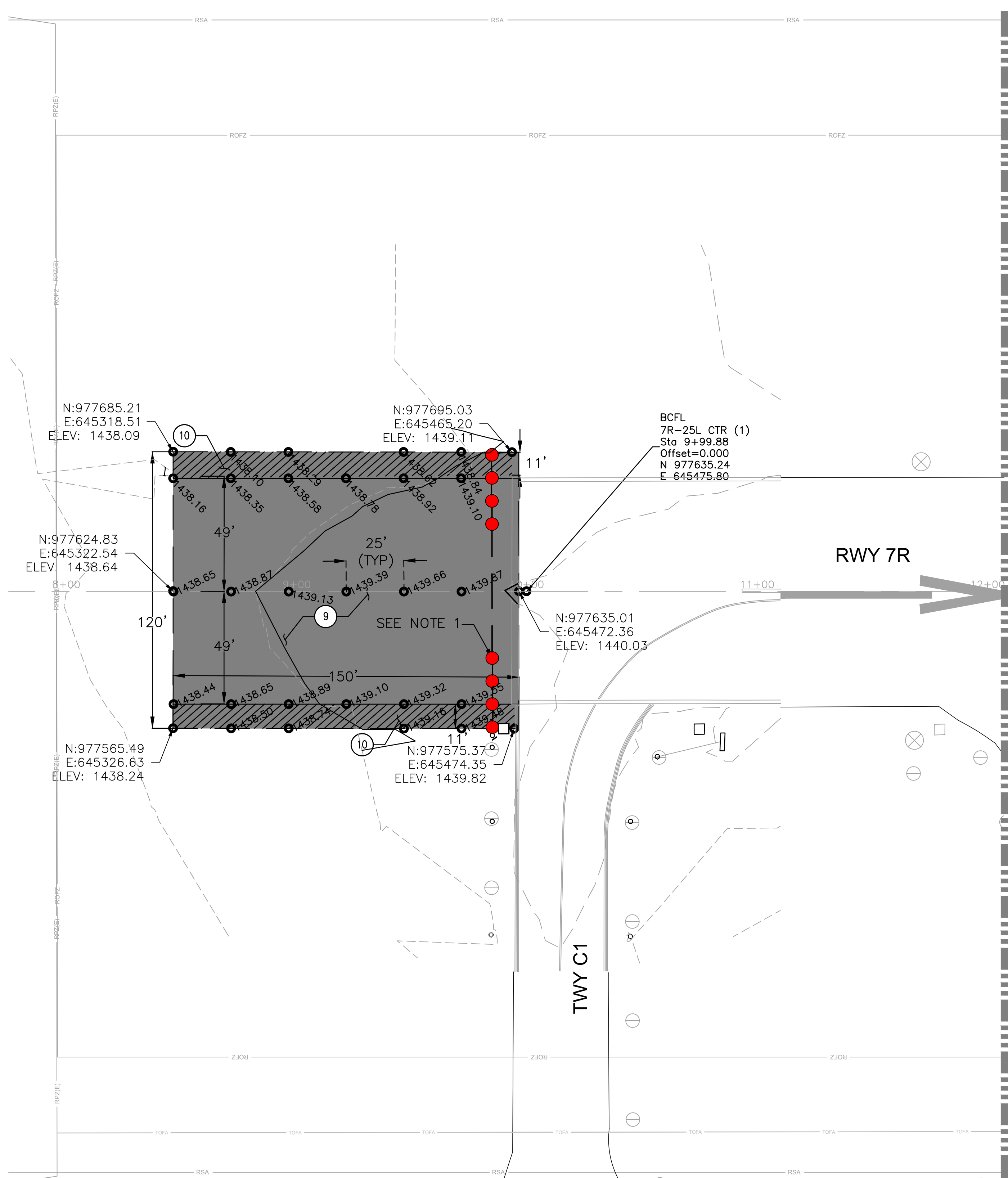
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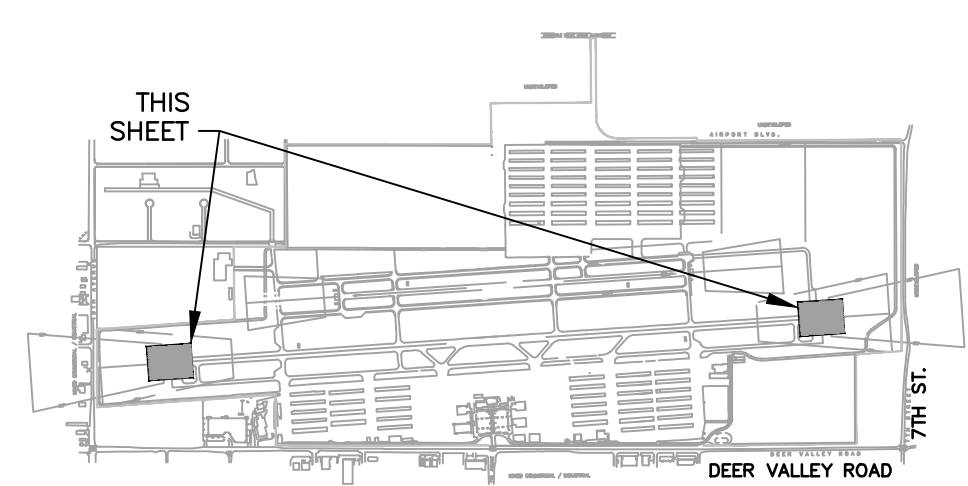


**CONSTRUCTION NOTES**

- ⑨ — CONSTRUCT ASPHALT SURFACE SECTION PER SOUTH RUNWAY SECTION, SHEET G112 (ALT. 1) OR PLACE EMULSIFIED SEALCOAT (ALT. 2)
- ⑩ — CONSTRUCT STRUCTURAL PAVEMENT SECTION PER DETAIL 1, SHEET G011

**GENERAL NOTES**

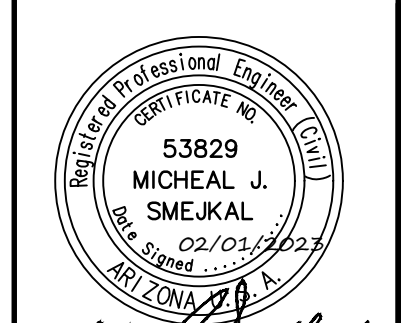
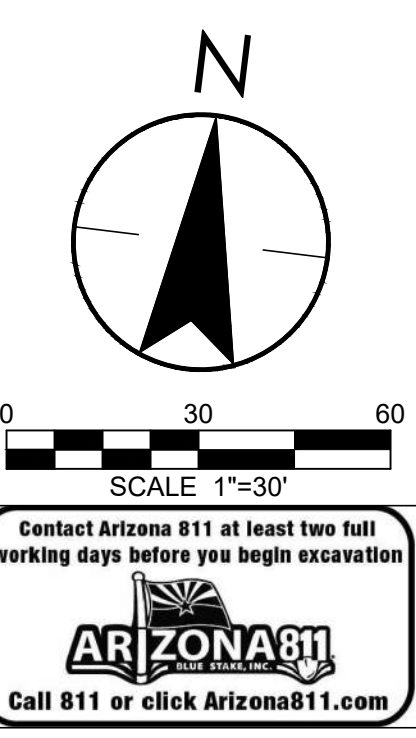
1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.



**KEY MAP**  
NTS

**LEGEND**

- ASPHALT OVERLAY (ALT. 1) OR EMULSIFIED SEALCOAT (ALT. 2)
- ASPHALT FULL DEPTH STRUCTURAL PAVEMENT



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NO.	REVISIONS / SUBMISSIONS	DATE

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 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

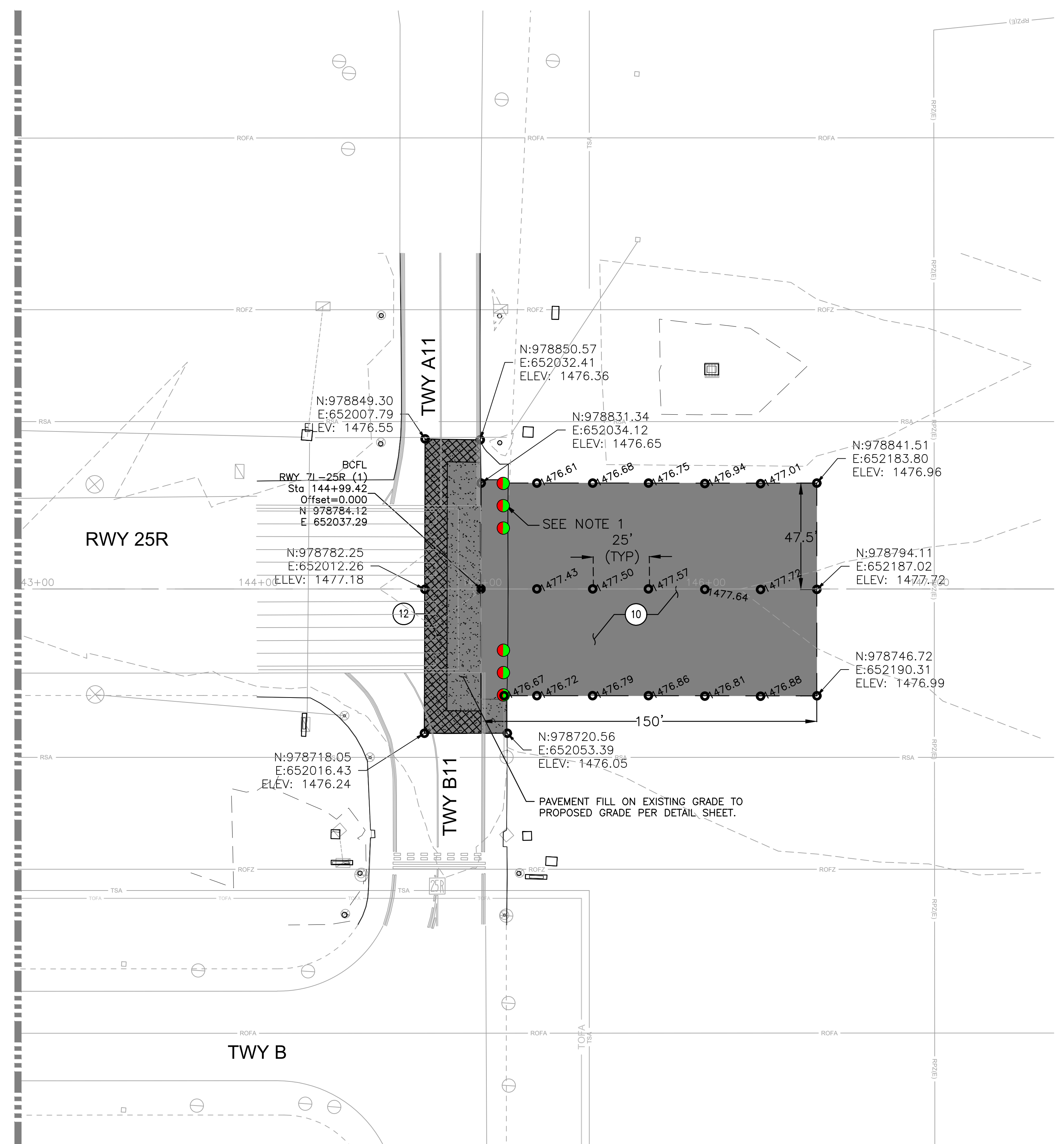
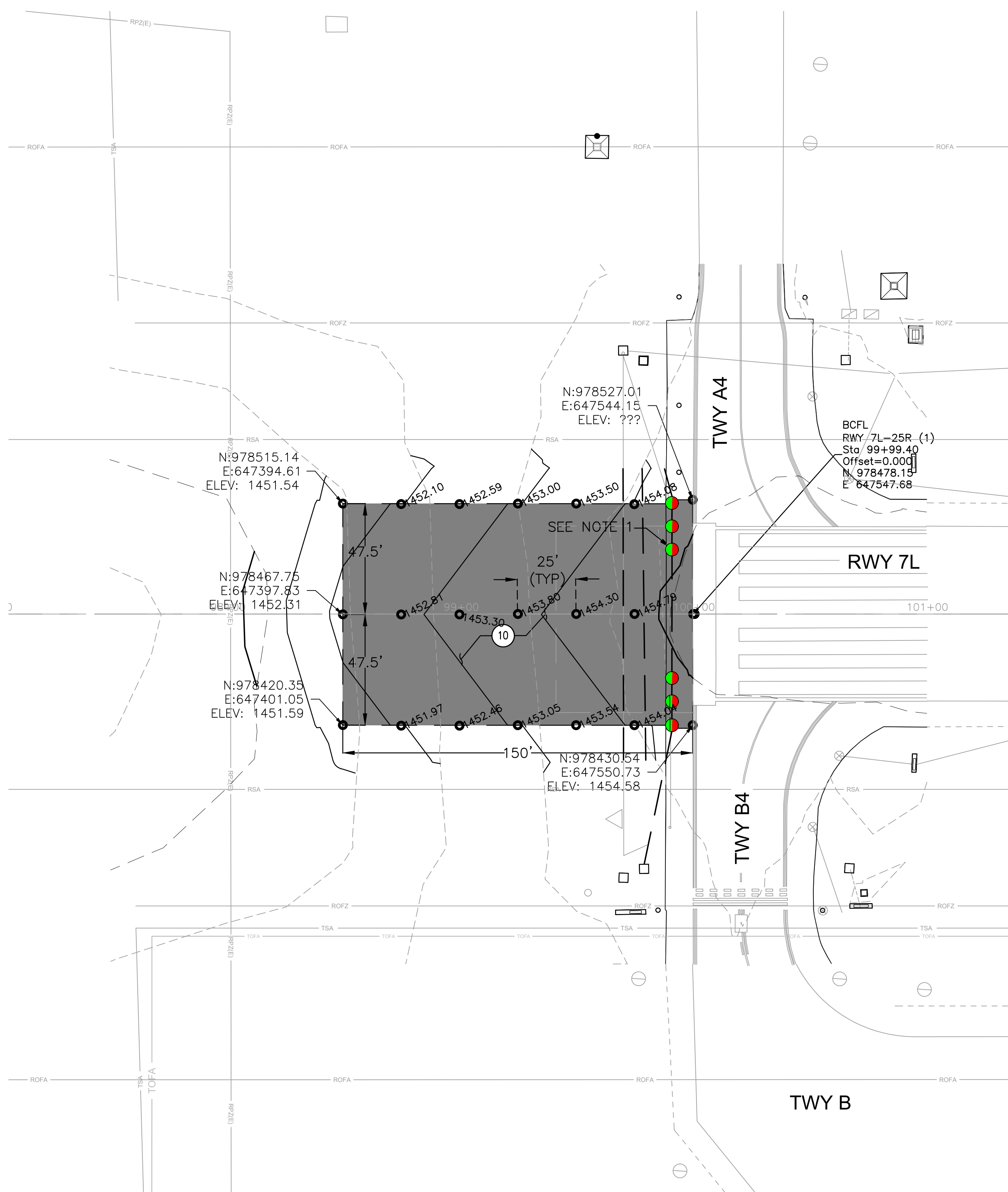
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Checked by: MS	Date: 2/1/2023
Dwg. scale: AS NOTED	CP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
 CONTROL AND PAVING PLAN 1**

Sheet Reference Number:  
**C401**  
 Sheet 18 of 38



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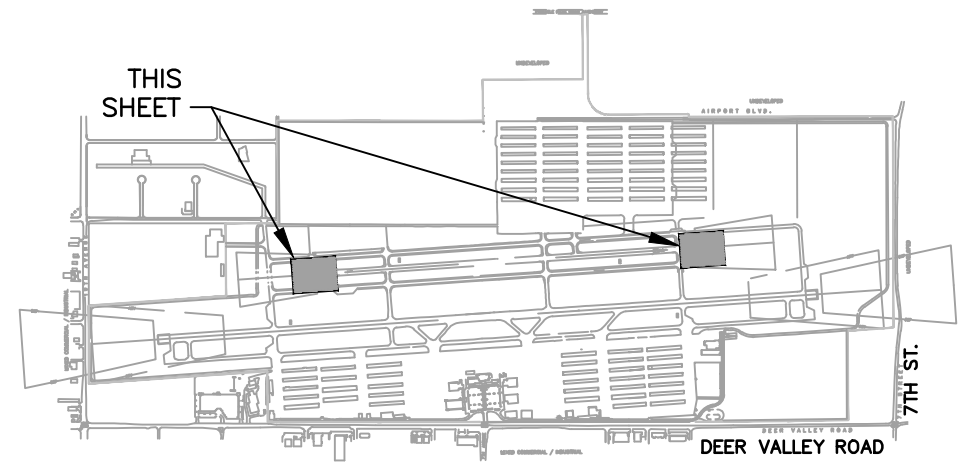


**CONSTRUCTION NOTES**

- ⑩ — CONSTRUCT STRUCTURAL PAVEMENT SECTION PER DETAIL 2&3, SHEET G012
- ⑫ — REPLACE EXISTING STRUCTURAL PAVEMENT SECTION SURFACE PER EXISTING CONDITIONS, LIMITS PER PLAN. CONSTRUCT VARIABLE DEPTH OVERLAY, LIMITS PER PLAN.

**GENERAL NOTES**

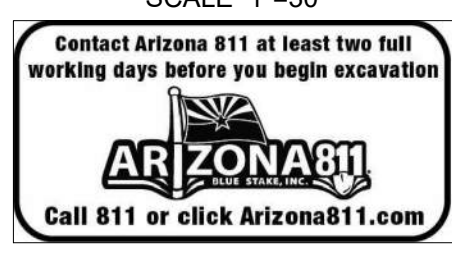
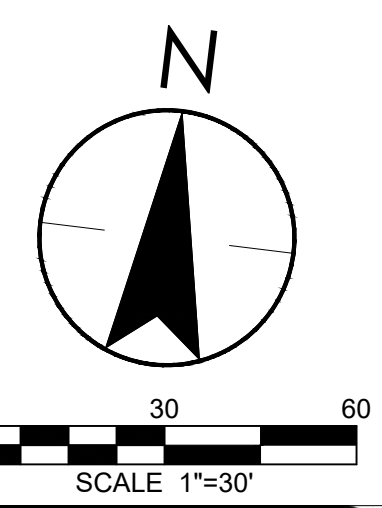
- 1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.



KEY MAP  
NTS

**LEGEND**

- ASPHALT OVERLAY
- ASPHALT FULL DEPTH STRUCTURAL PAVEMENT
- ASPHALT VARIABLE DEPTH OVERLAY FILL PAVEMENT



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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

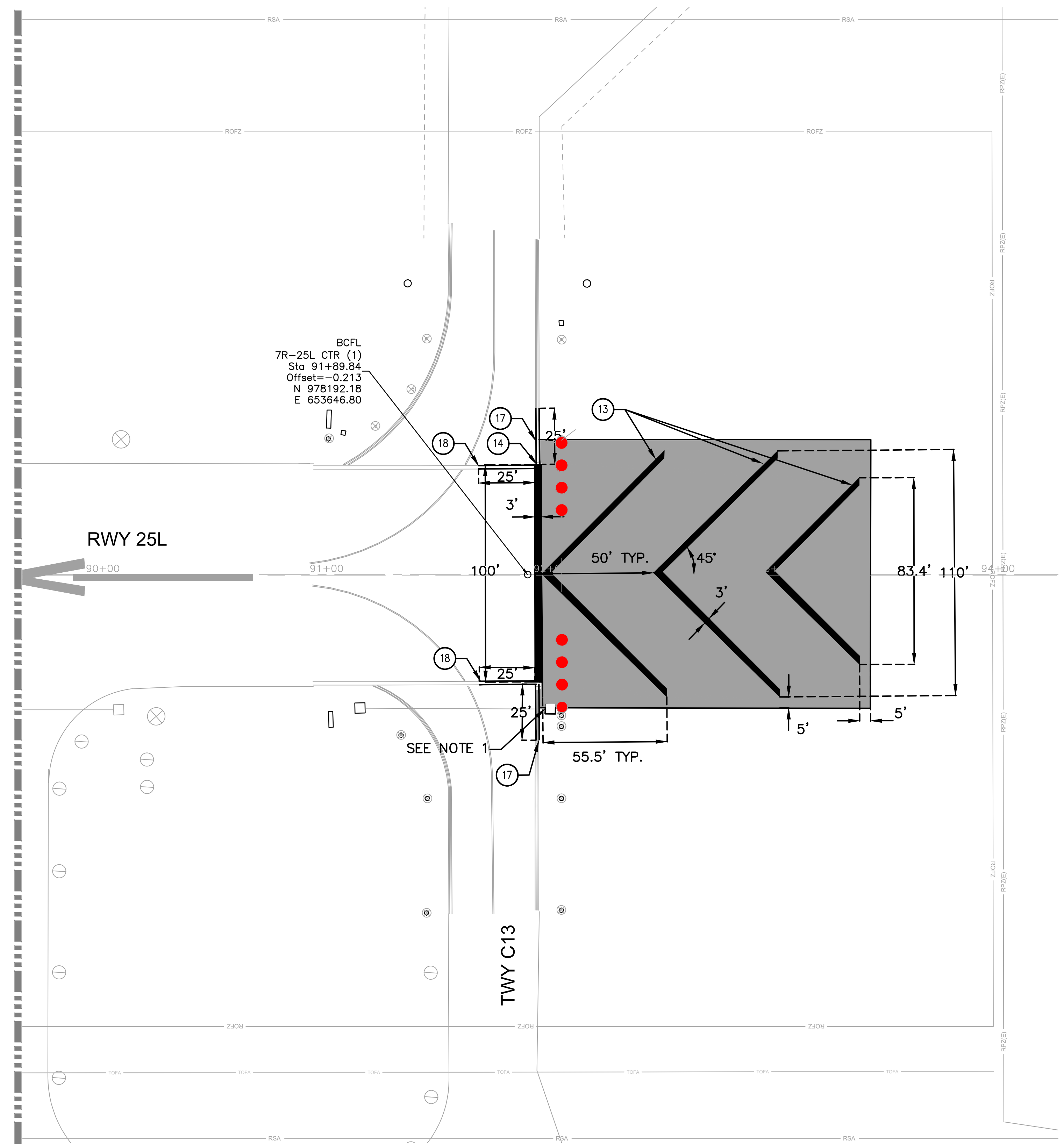
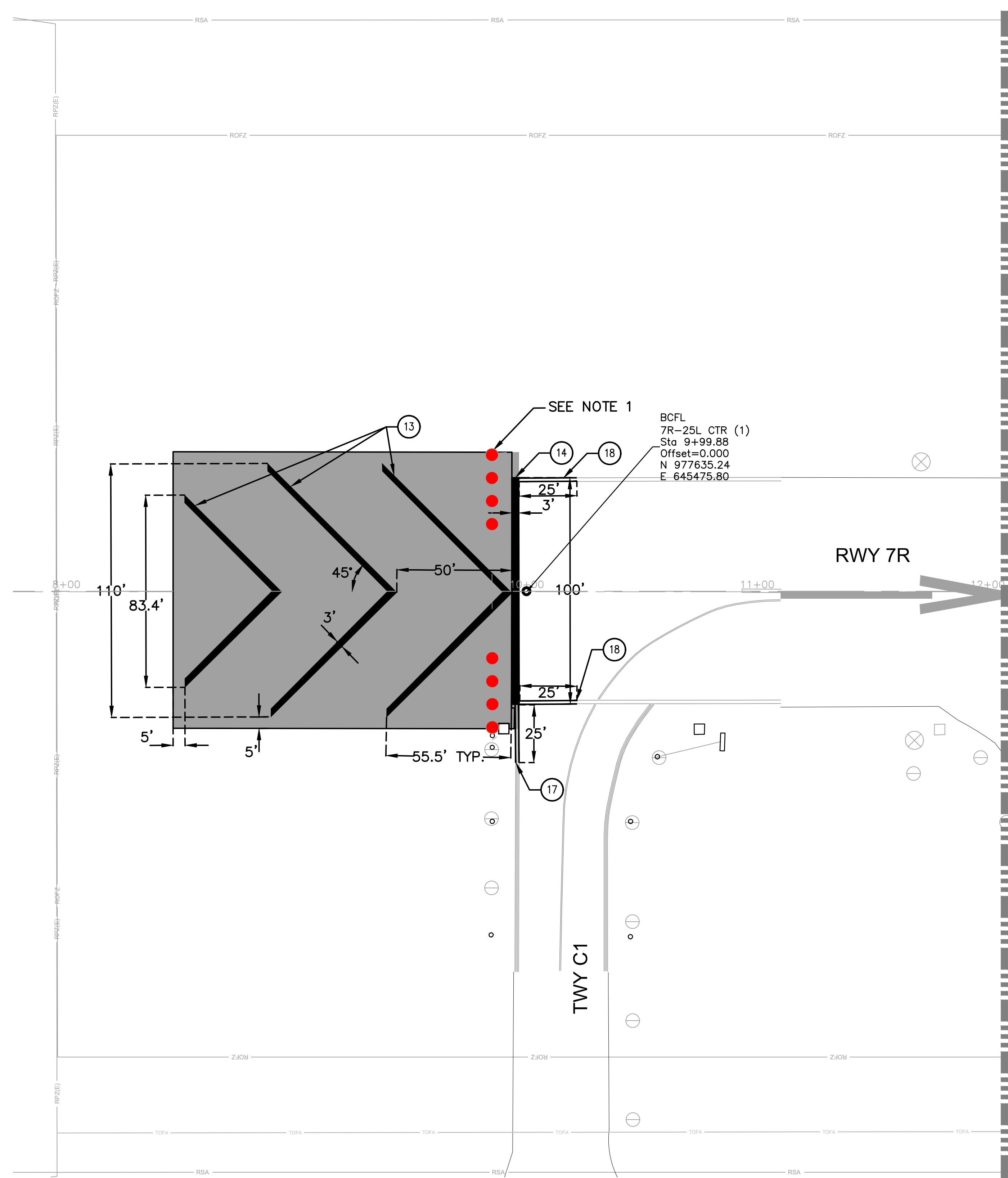
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CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
 CONTROL AND PAVING PLAN 2**

Sheet Reference Number:  
**C402**  
 Sheet 19 of 38



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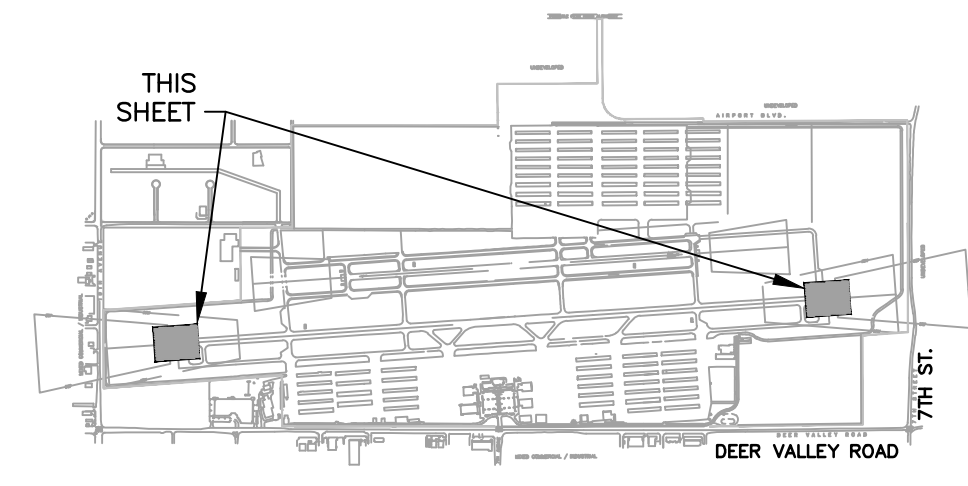


**CONSTRUCTION NOTES**

- 13 — PAINT YELLOW BLAST PAD CHEVRONS, LOCATION PER PLAN
- 14 — PAINT YELLOW DEMARCATION BAR, LOCATION PER PLAN
- 17 — PAINT YELLOW TAXIWAY EDGE STRIPE, LOCATION PER PLAN
- 18 — PAINT WHITE RUNWAY EDGE STRIPE, LOCATION PER PLAN

**GENERAL NOTES**

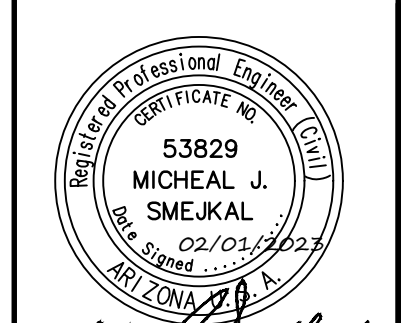
1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
2. SEE SHEET C501 FOR PAVEMENT MARKING DETAILS AND REQUIREMENTS.
3. PROJECT QUANTITIES INCLUDE REPAINTING EXISTING MARKINGS WITHIN 25' OF CONSTRUCTION LIMITS. IF CONTRACTOR'S OPERATIONS FOUL MARKINGS BEYOND 25' OF LIMITS THEY WILL BE REMARKED AT CONTRACTOR'S EXPENSE.
4. ALL MARKINGS ARE TO BE CONSTRUCTED PER SPECIFICATION P-620 AND FAA AC 150/5340-1M.



N

SCALE 1"=30'

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



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NO.	REVISIONS / SUBMISSIONS	DATE

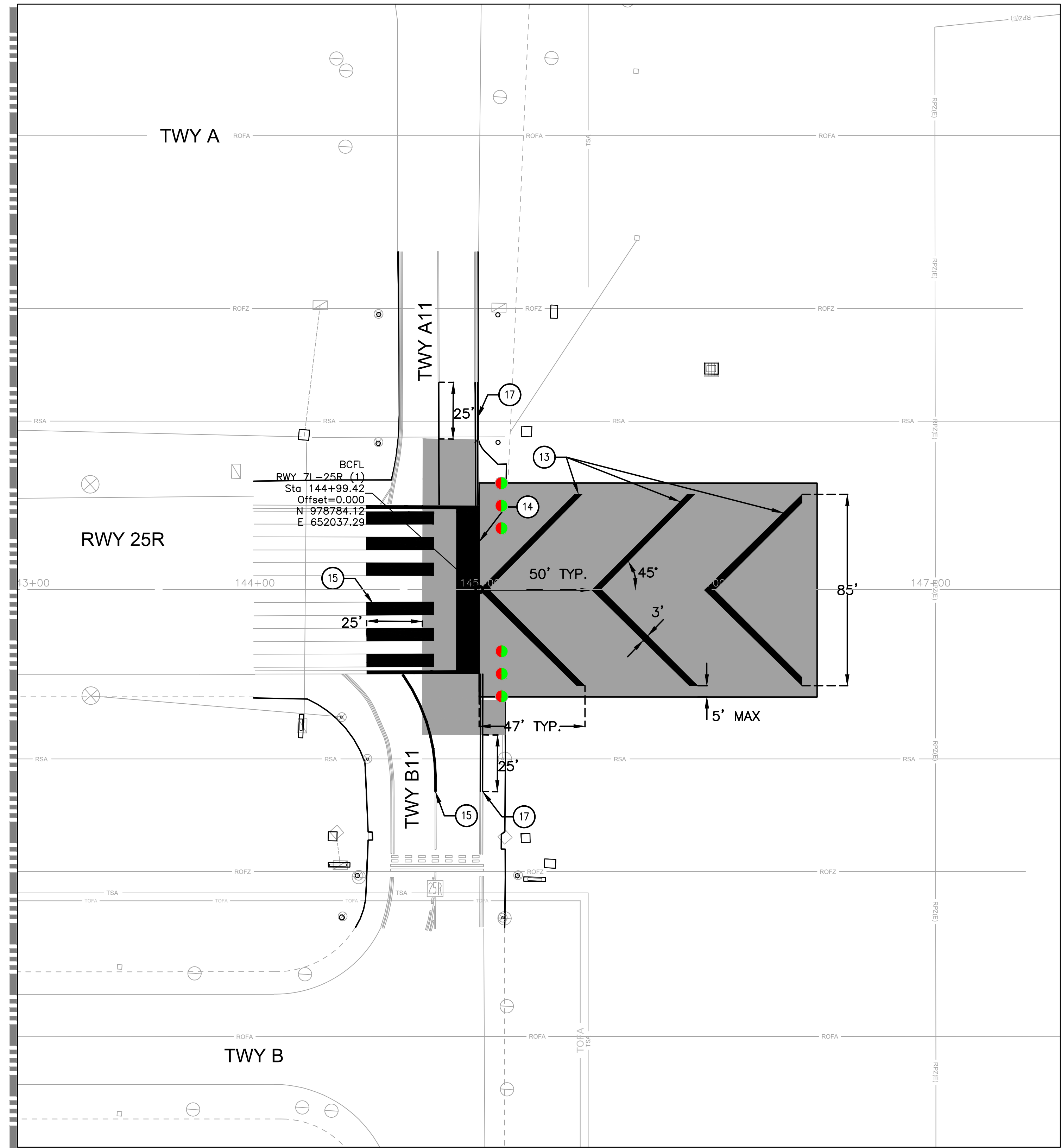
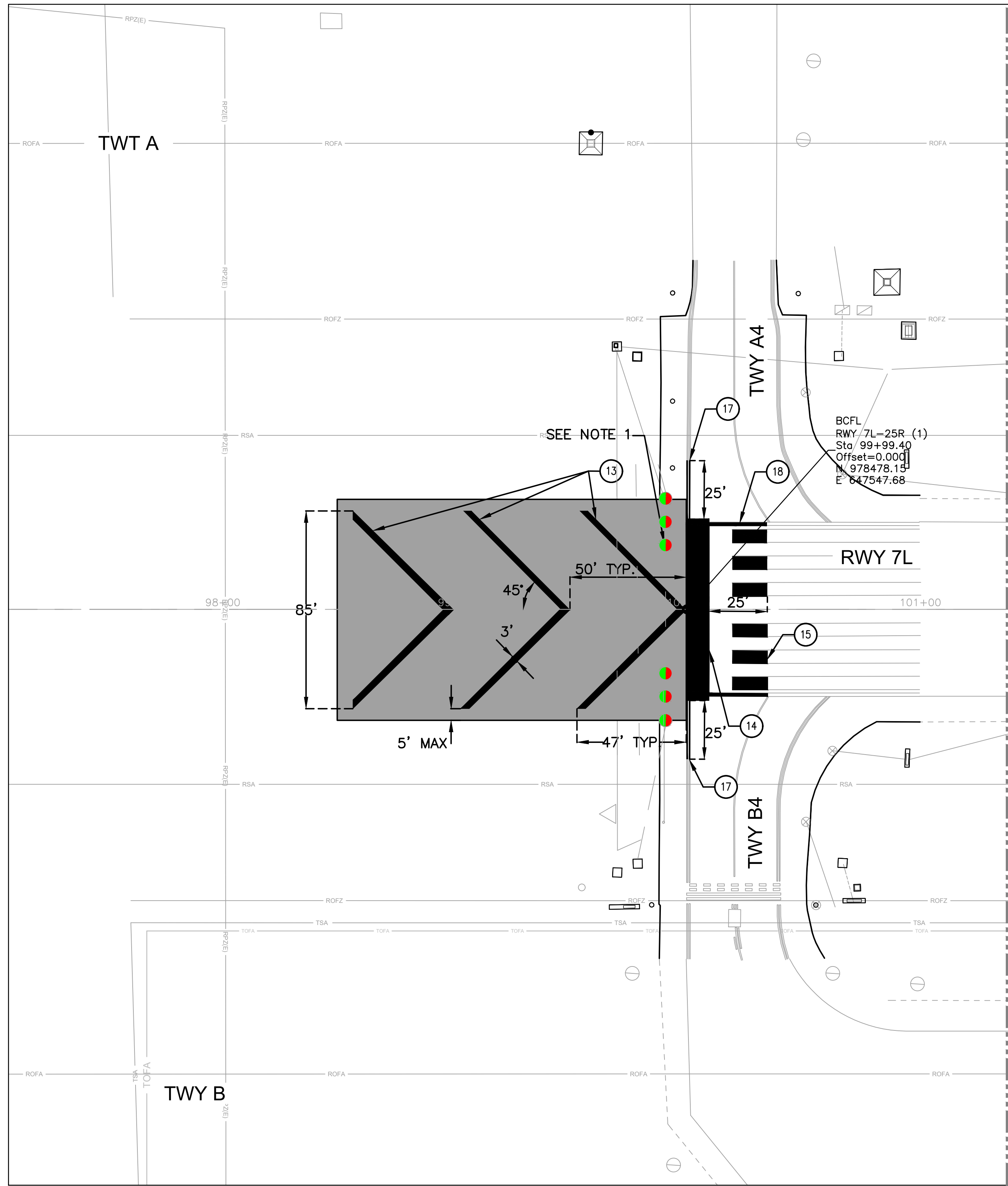
**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: OAC	Drawn by: RSC
Checked by: MS	Date: 2/1/2023
Dwg scale: AS NOTED	CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
 MARKING PLAN 1**

Sheet Reference Number:  
**C501**  
 Sheet 20 of 38



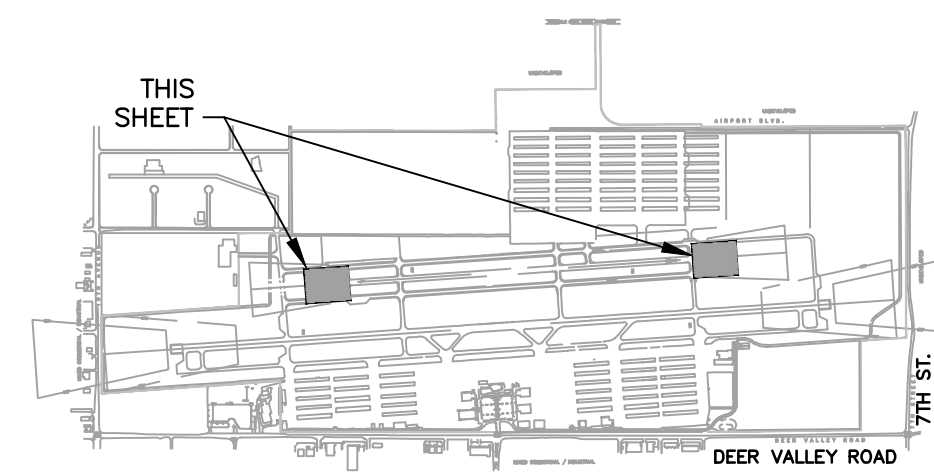


**CONSTRUCTION NOTES**

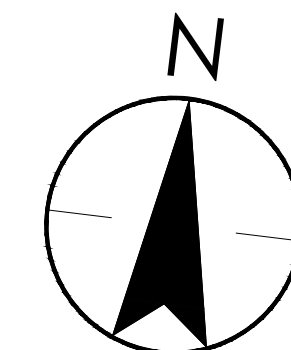
- 13 — PAINT YELLOW BLAST PAD CHEVRONS, LOCATION PER PLAN
- 14 — PAINT WHITE THRESHOLD LINE, LOCATION PER PLAN
- 15 — RE-ESTABLISH EXISTING FOULED PAVEMENT MARKINGS PER EXISTING CONDITIONS
- 17 — PAINT YELLOW TAXIWAY EDGE STRIPE, LOCATION PER PLAN
- 18 — PAINT WHITE RUNWAY EDGE STRIPE, LOCATION PER PLAN

**GENERAL NOTES**

1. SEE ELECTRICAL SHEETS FOR THRESHOLD LIGHTING WORK AND REQUIREMENTS.
2. SEE SHEET C501 FOR PAVEMENT MARKING DETAILS AND REQUIREMENTS.
3. PROJECT QUANTITIES INCLUDE REPAINTING EXISTING MARKINGS WITHIN 25' OF CONSTRUCTION LIMITS. IF CONTRACTOR'S OPERATIONS FOUL MARKINGS BEYOND 25' OF LIMITS THEY WILL BE REMARKED AT CONTRACTOR'S EXPENSE.
4. ALL MARKINGS ARE TO BE CONSTRUCTED PER SPECIFICATION P-620 AND FAA AC 150/5340-1M.



**KEY MAP**  
NTS



SCALE 1"=30'



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NO.	REVISIONS / SUBMISSIONS	DATE

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CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
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PHOENIX, ARIZONA 85027

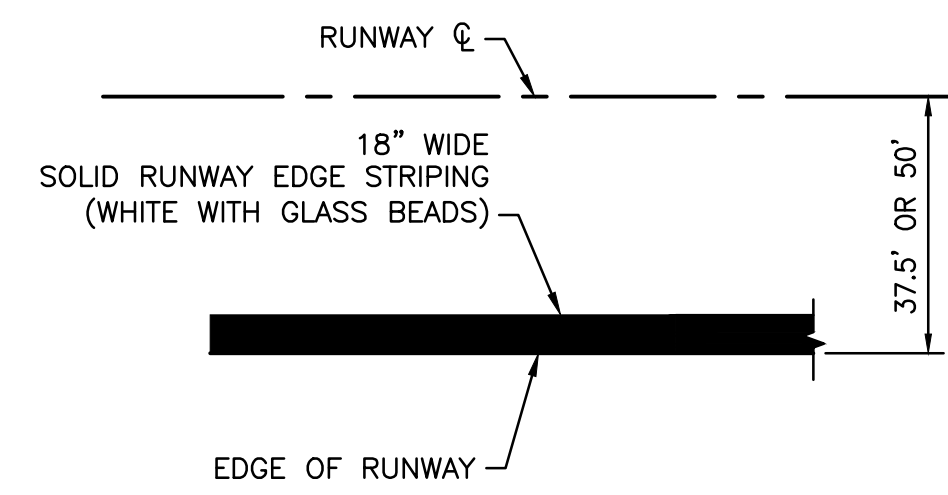
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Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
MARKING PLAN 2**

Sheet Reference Number:  
**C502**

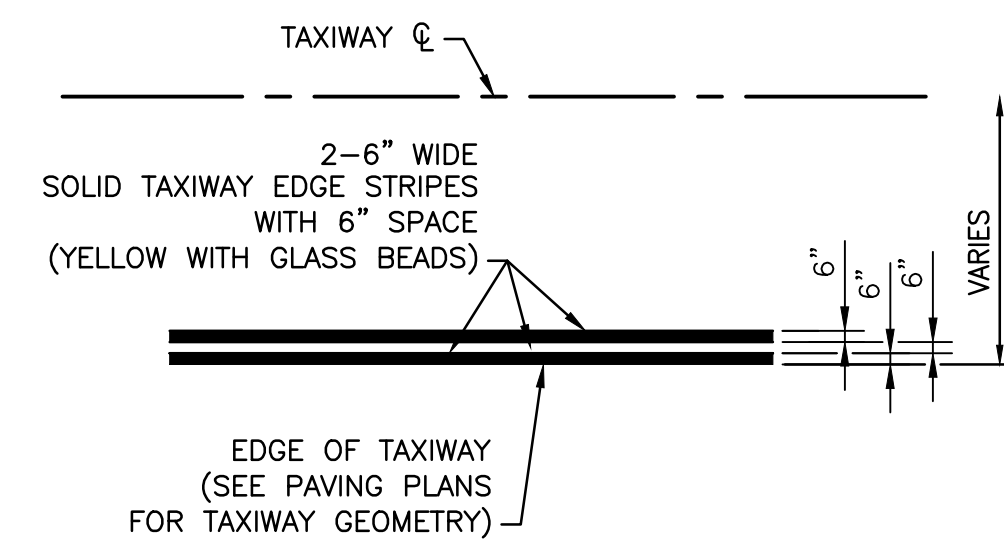
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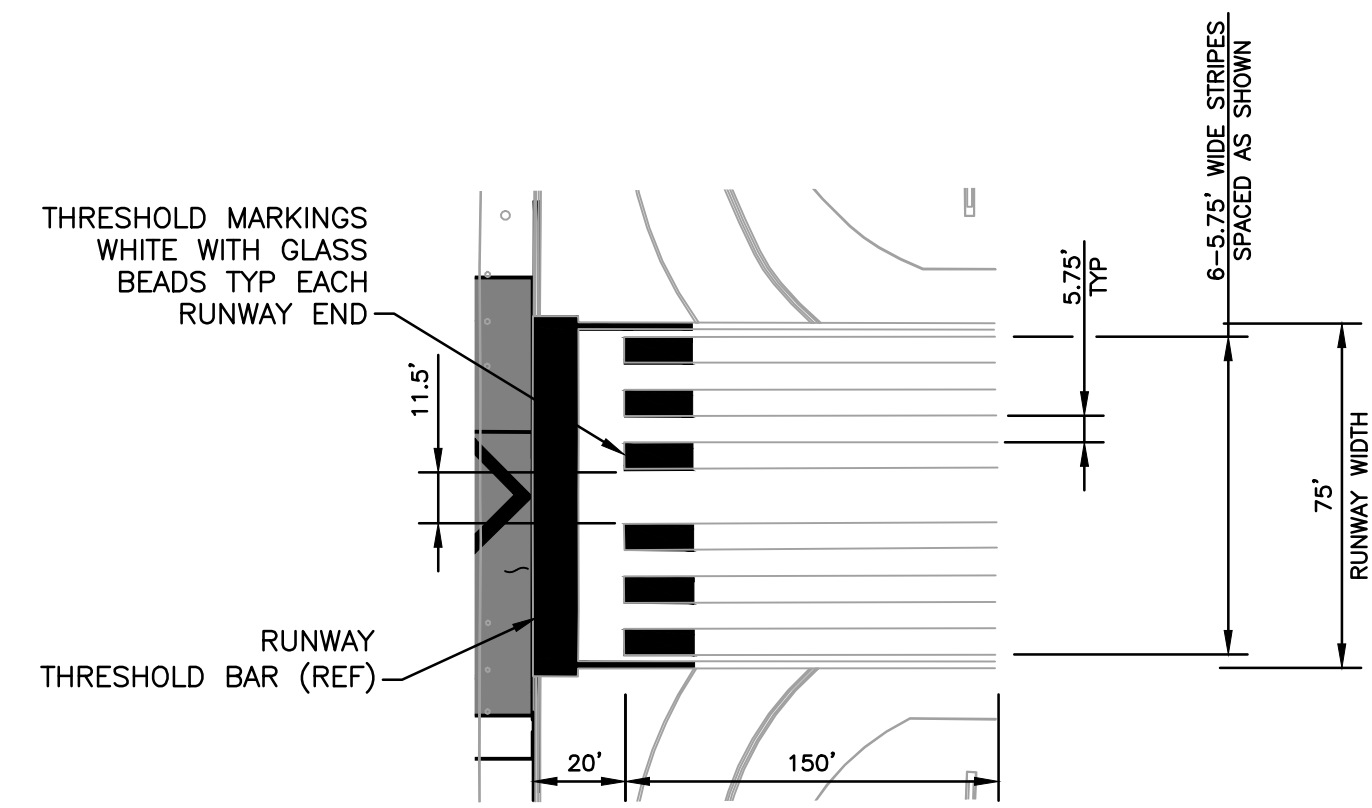
**RUNWAY EDGE STRIPING DETAIL**

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**TAXIWAY EDGE STRIPE DETAIL**

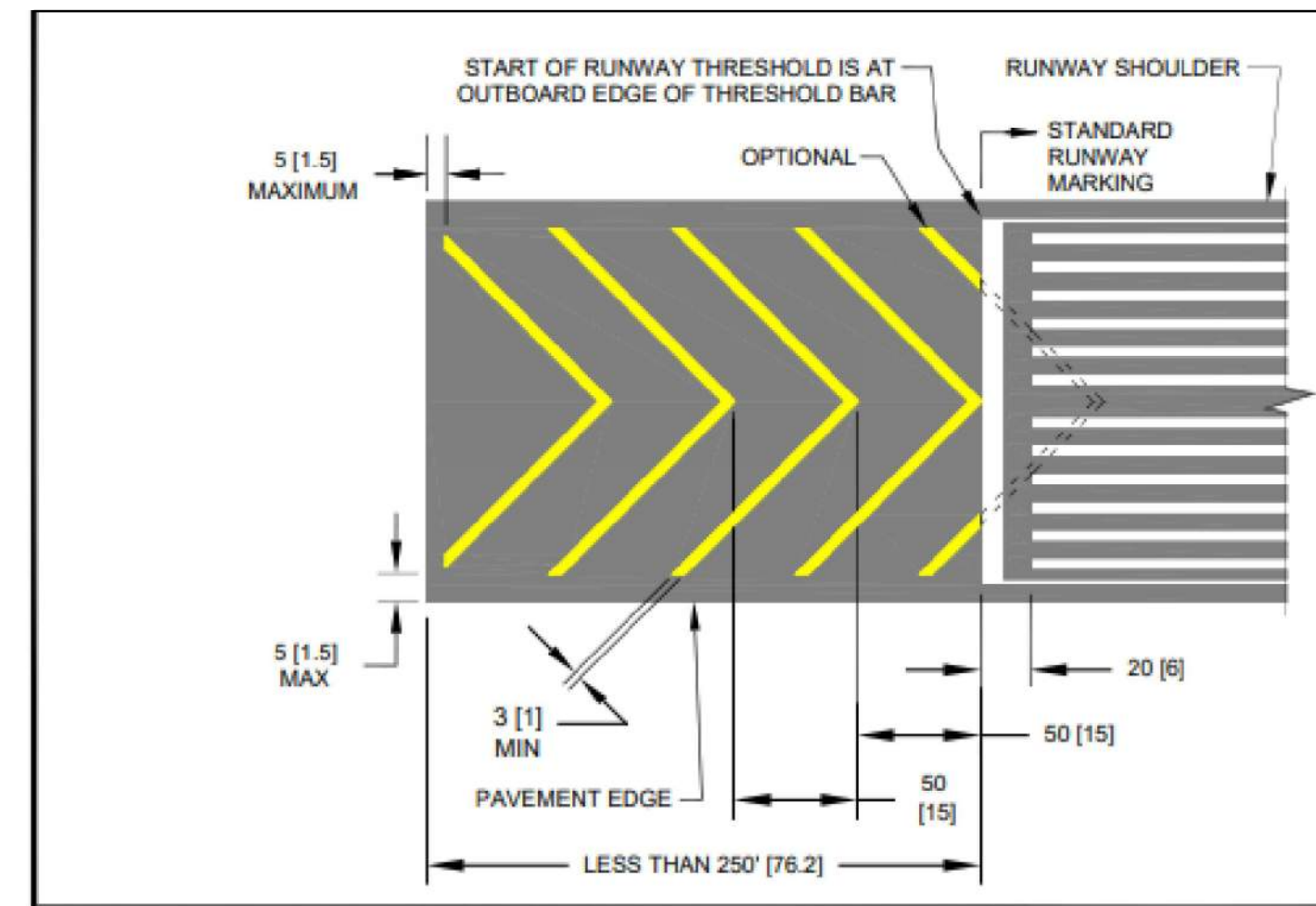
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**RUNWAY THRESHOLD MARKING DETAILS**

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NOTE: RUNWAY THRESHOLD MARKINGS TYPICAL FOR EACH RUNWAY 7L/25R END.

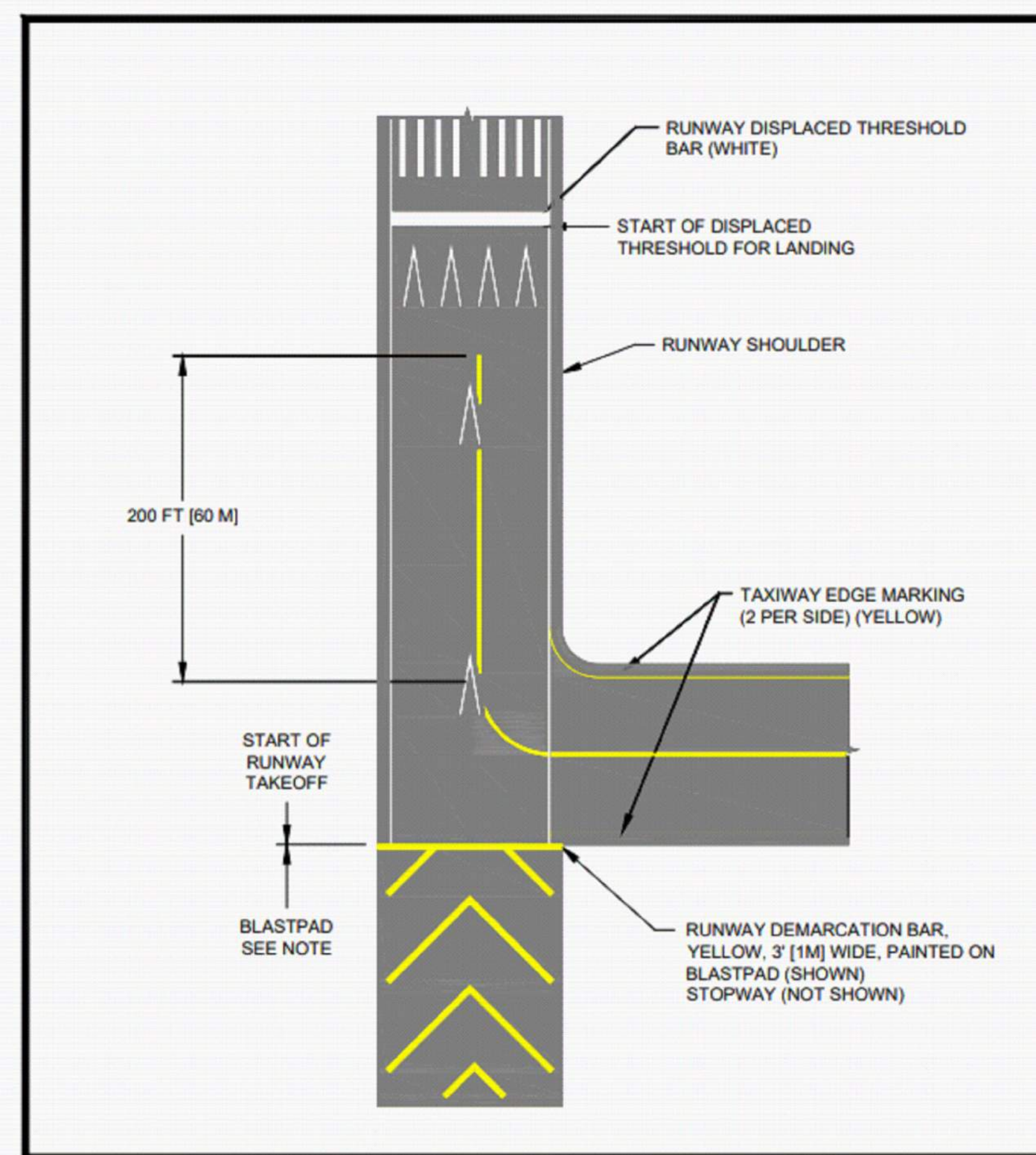


**Notes:**

1. Dimensions are expressed in feet (meters).
2. The widths of the stopways and blast pads are not the same. Stopways equal runway width. Blast pads equal runway width plus runway shoulders. See AC 150/5300-13.
3. 50 ft (15m) spacing must be used when length of area is less than 250 ft (76 m) in which case the first full chevron starts at the index point (intersection of runway centerline and runway threshold).
4. Chevrons are painted yellow and at an angle of 45° to the runway centerline.
5. Chevron spacing may be doubled if length of area exceeds 1000 ft (305m).
6. For stopways of less than 250 ft (76 m) in length, full chevrons are required with the option to paint partial chevrons.

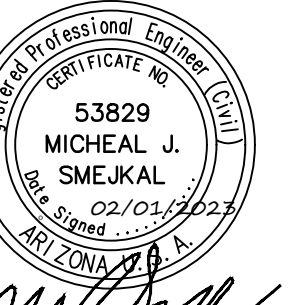
**BLAST PAD MARKING DETAILS**

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**RUNWAY DEMARCATON LINE DETAILS**

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

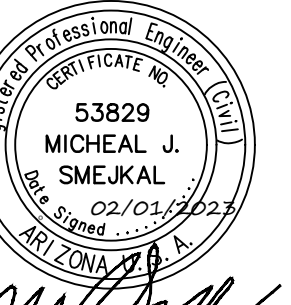
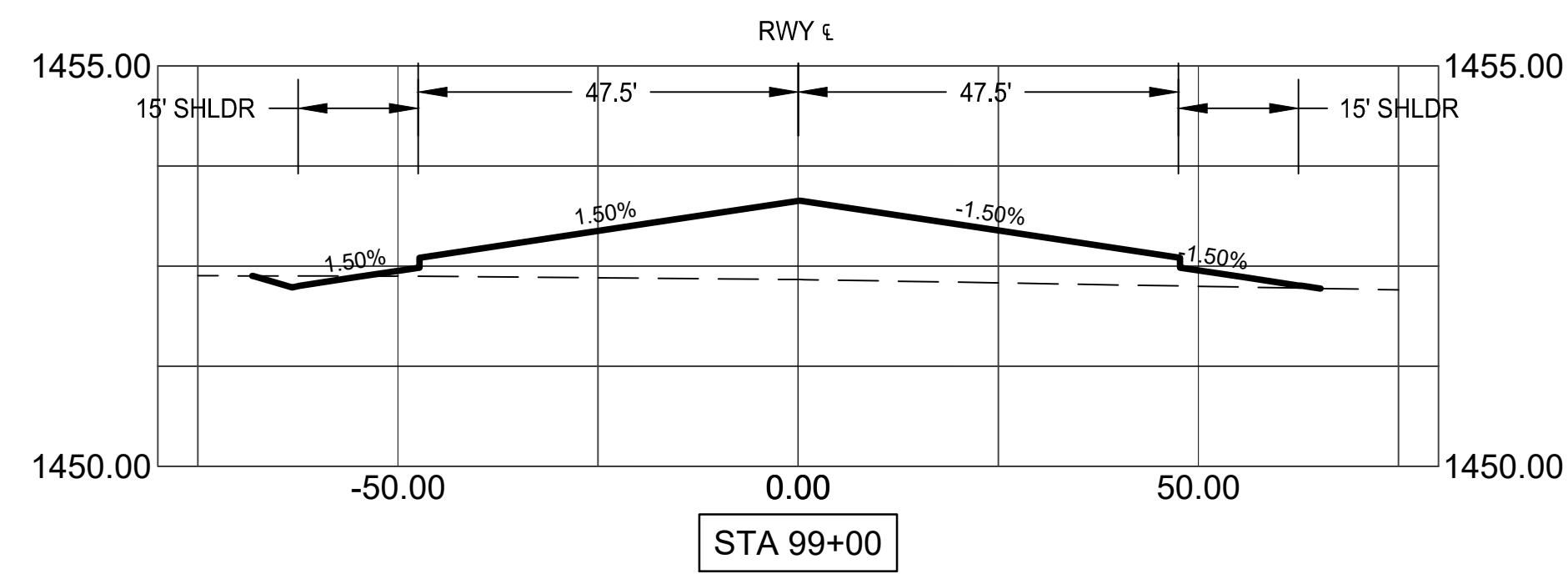
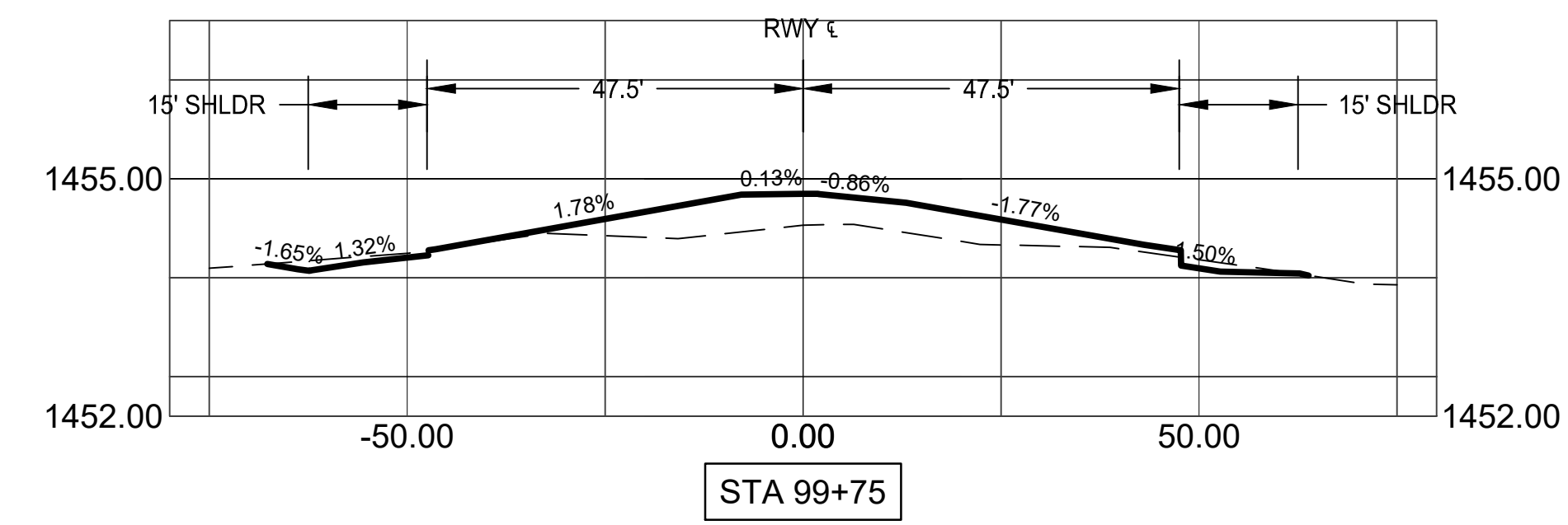
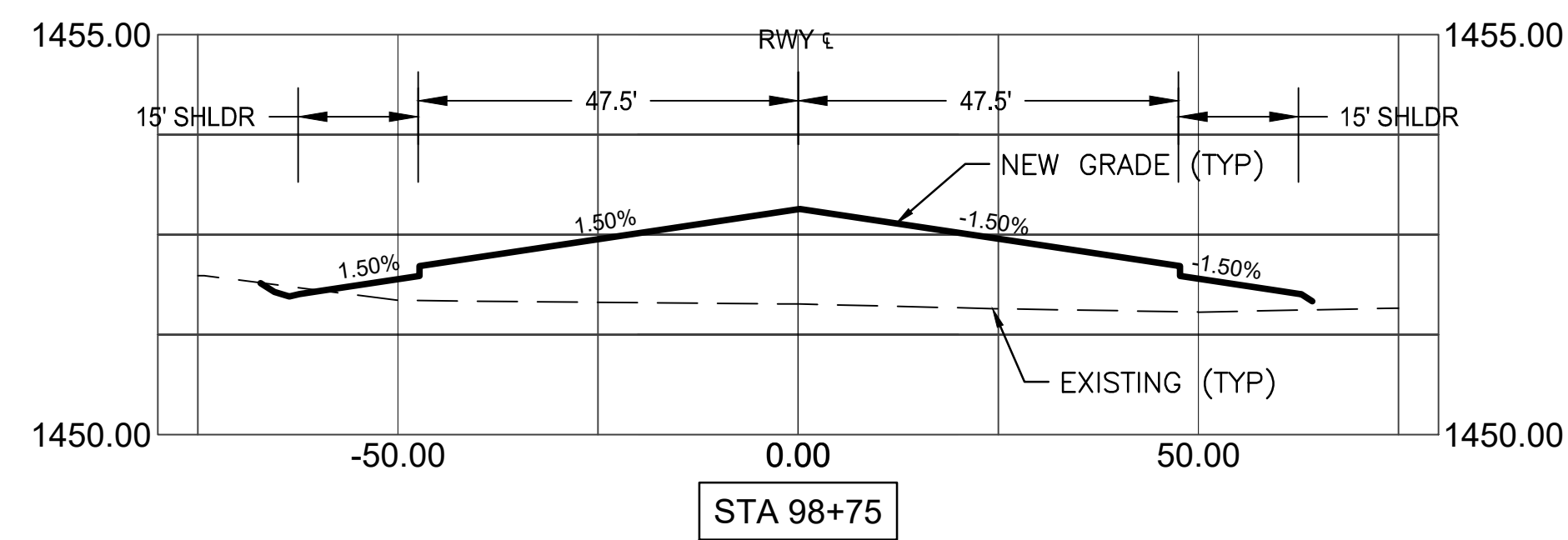
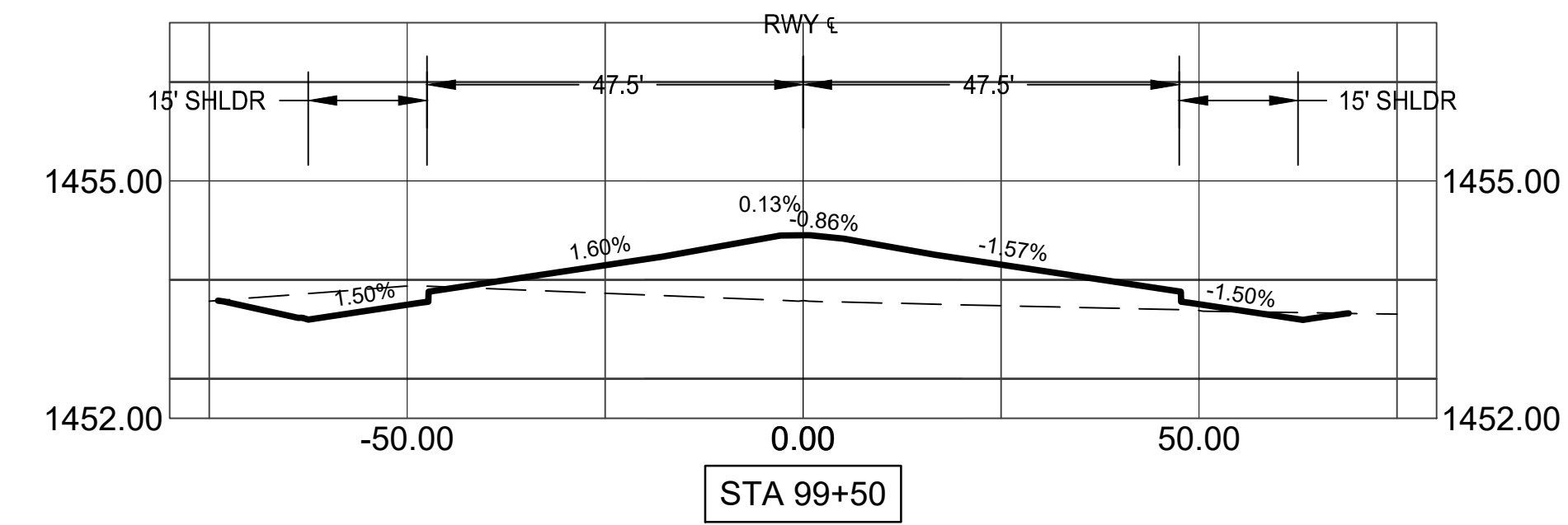
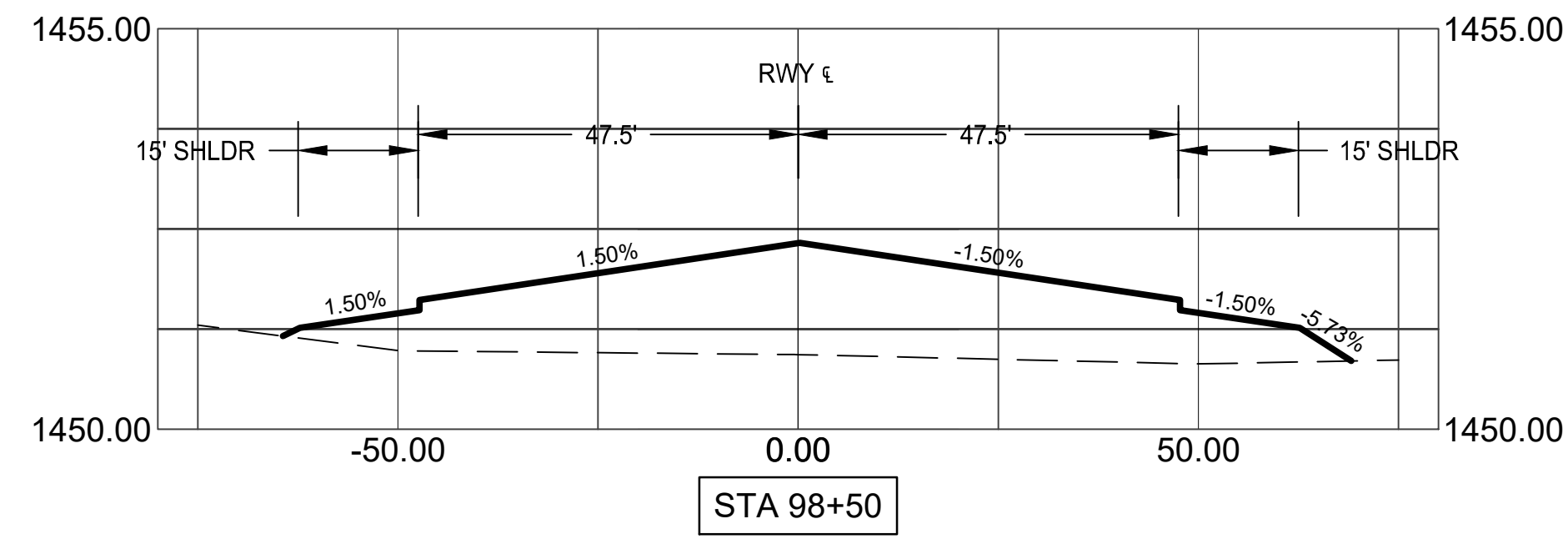
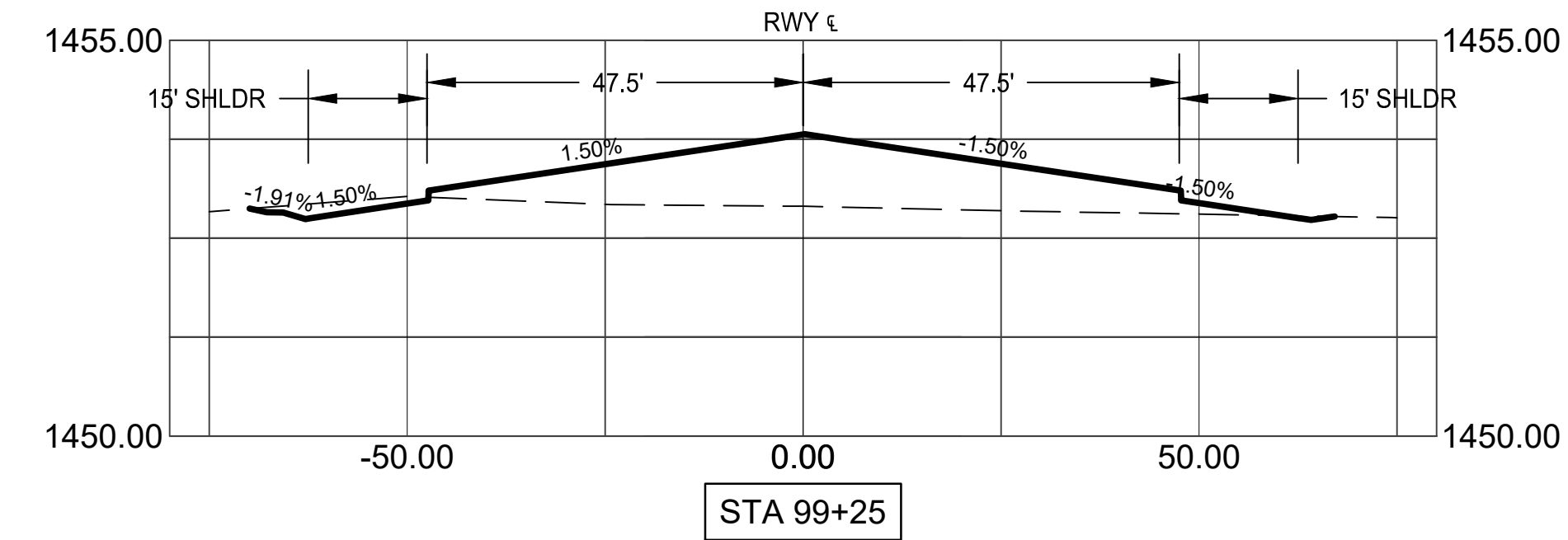
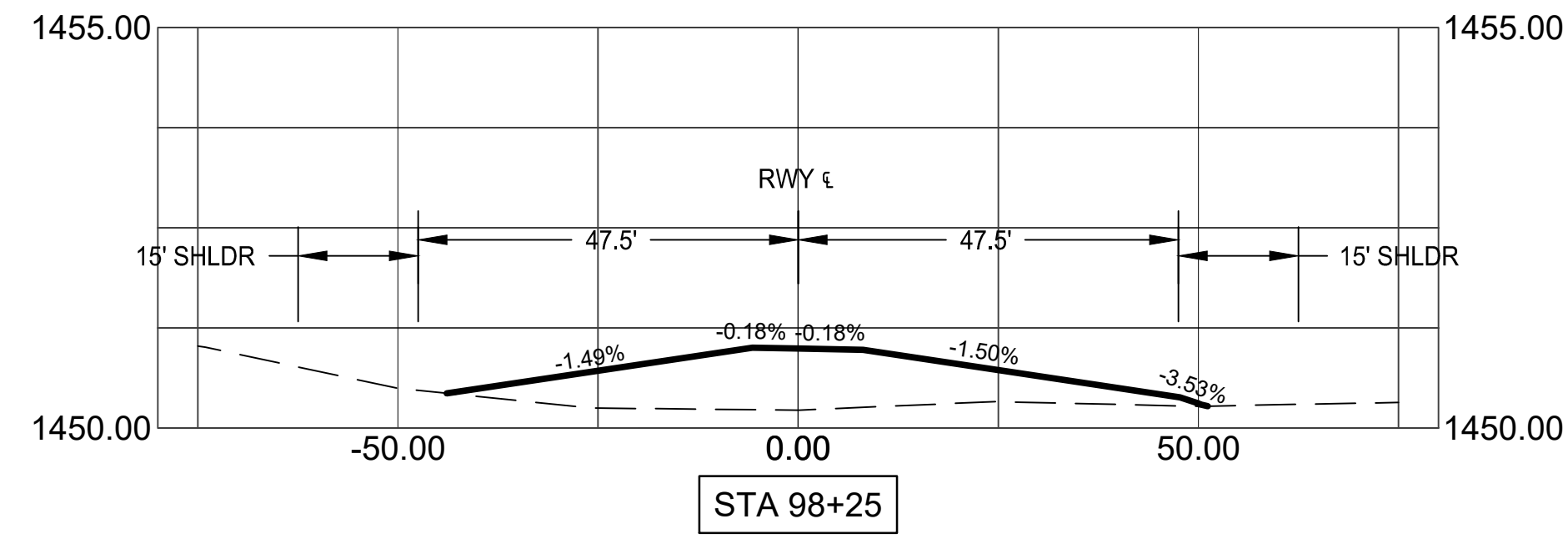
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Sheet Overview Title  
**PAVEMENT MARKING DETAILS**

Sheet Reference Number:  
**C503**  
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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
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 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
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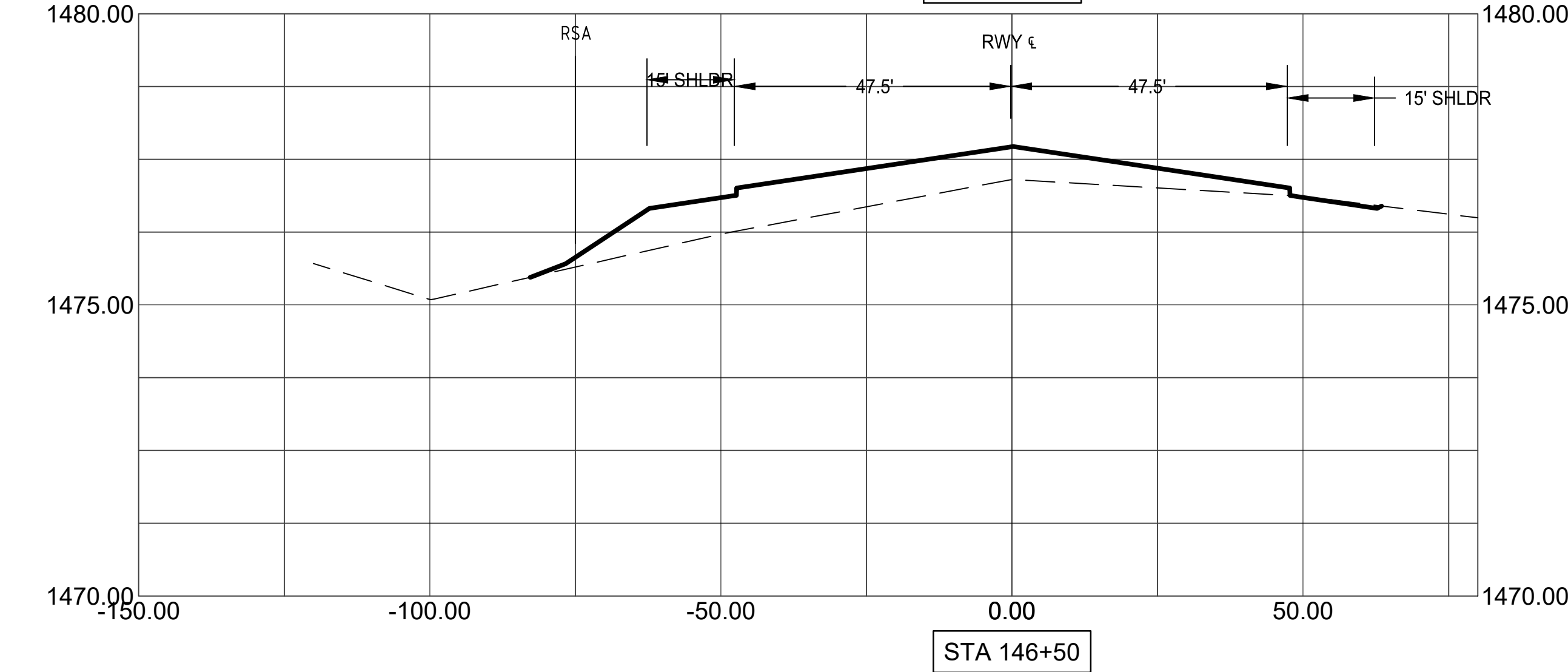
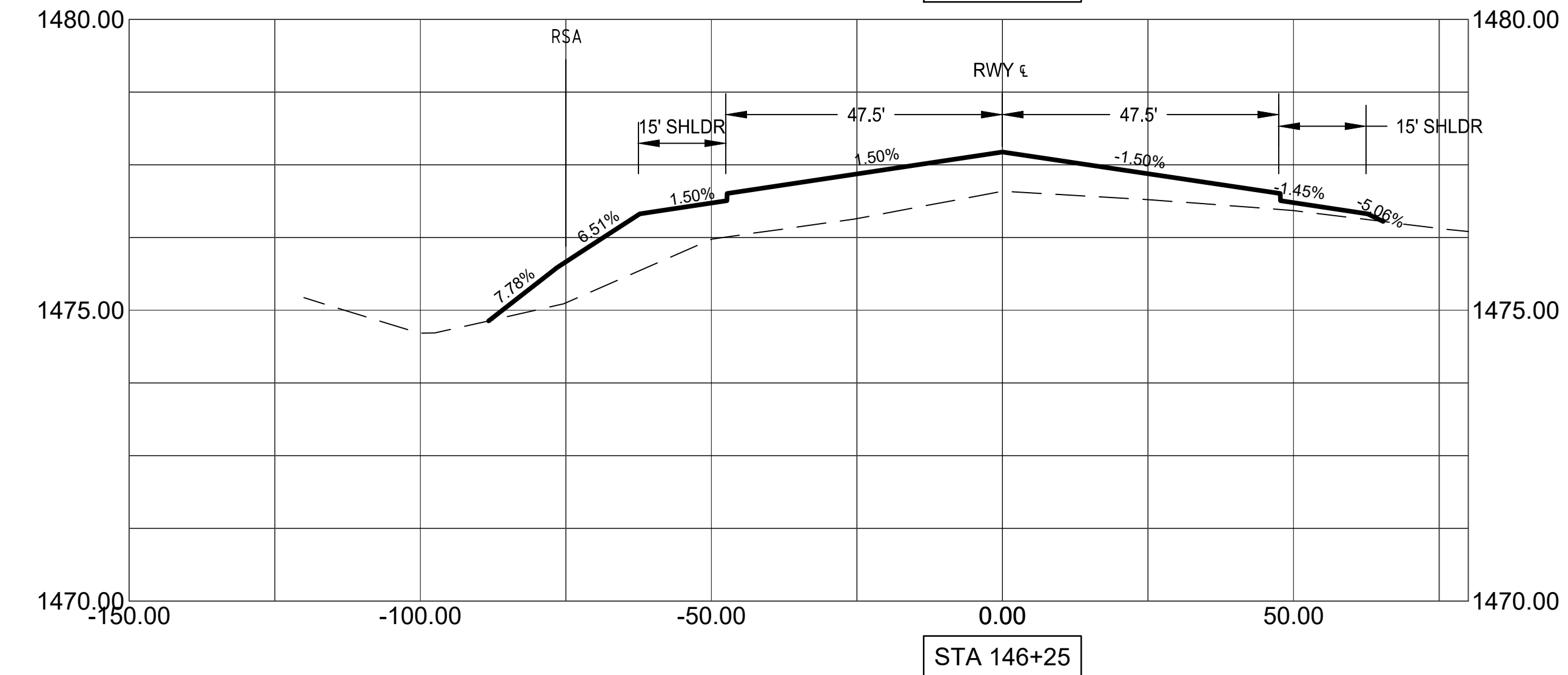
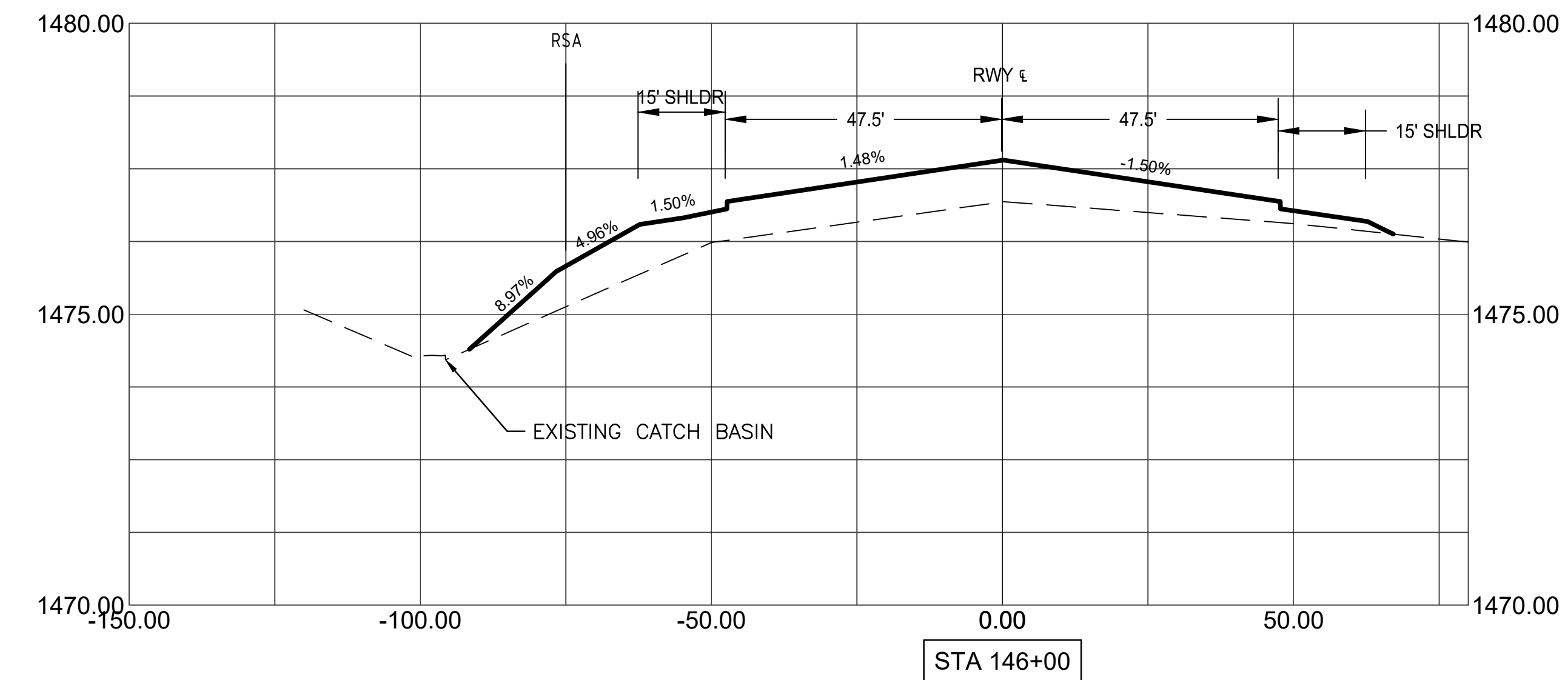
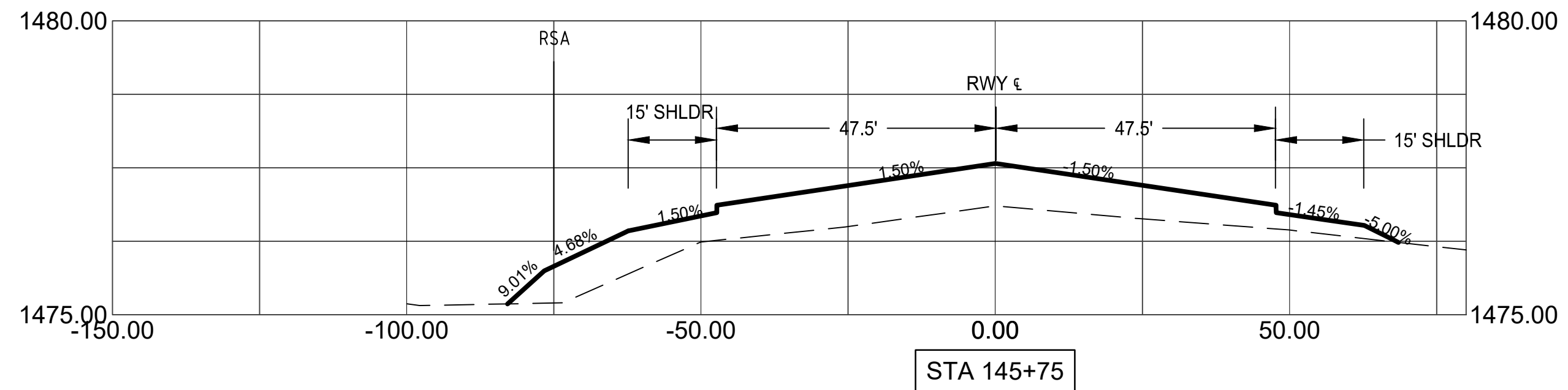
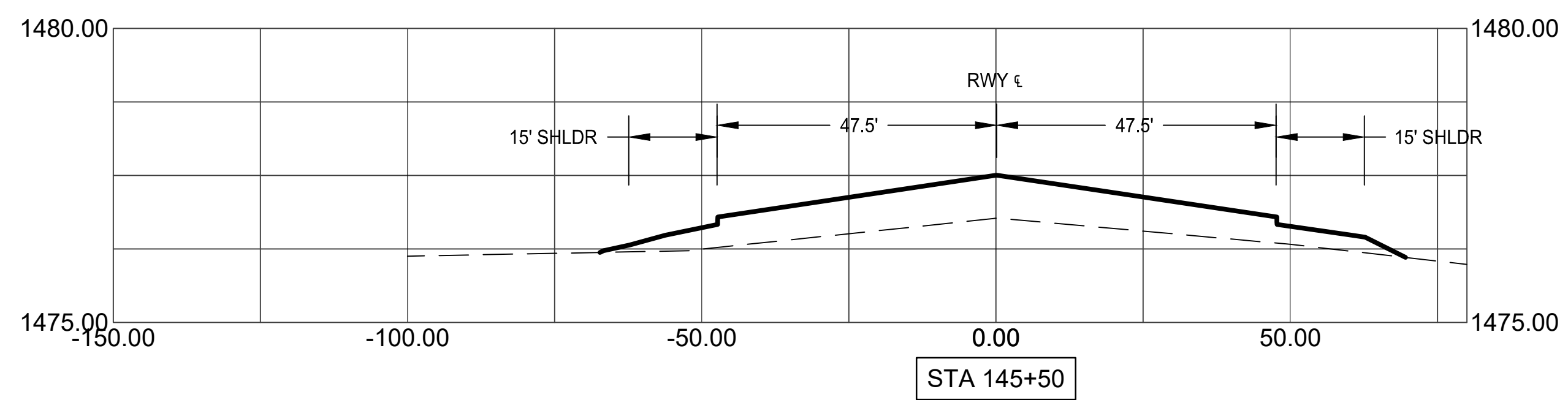
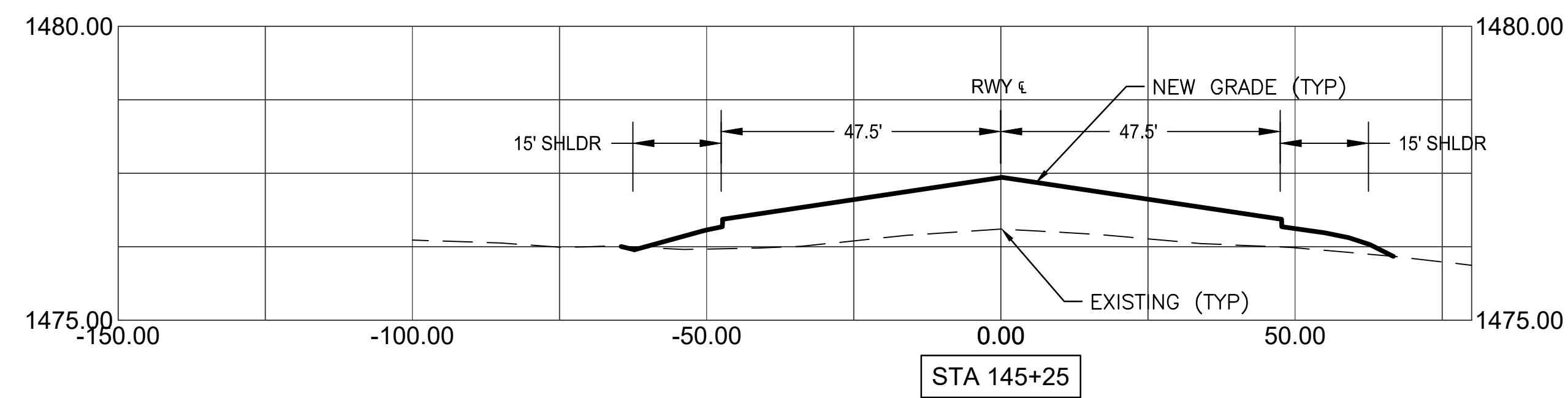
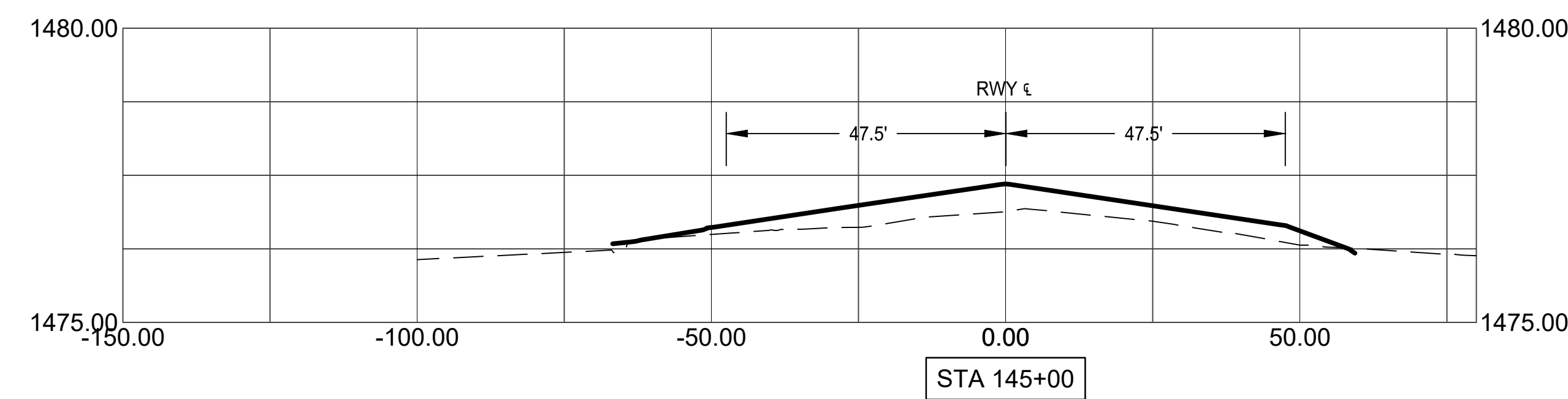
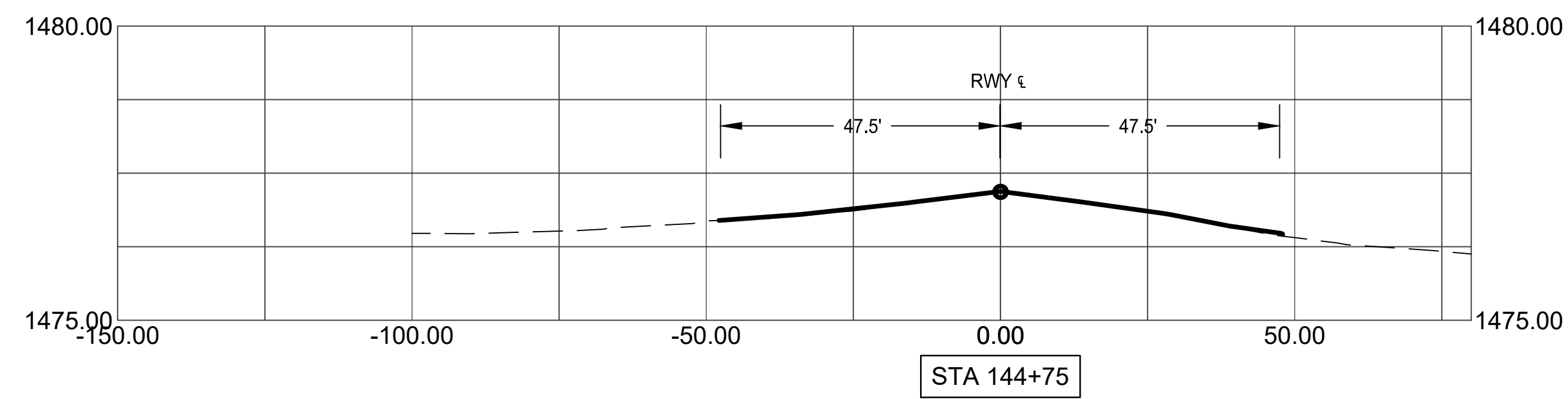
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Sheet Overview Title  
**CROSS SECTIONS 7L**

Sheet Reference Number:  
**C601**  
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Professional Engineer  
MICHAEL J. SWEKAL  
53829  
02/01/2023  
PHOENIX, ARIZONA

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
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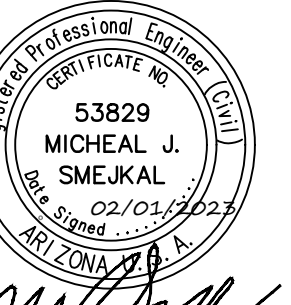
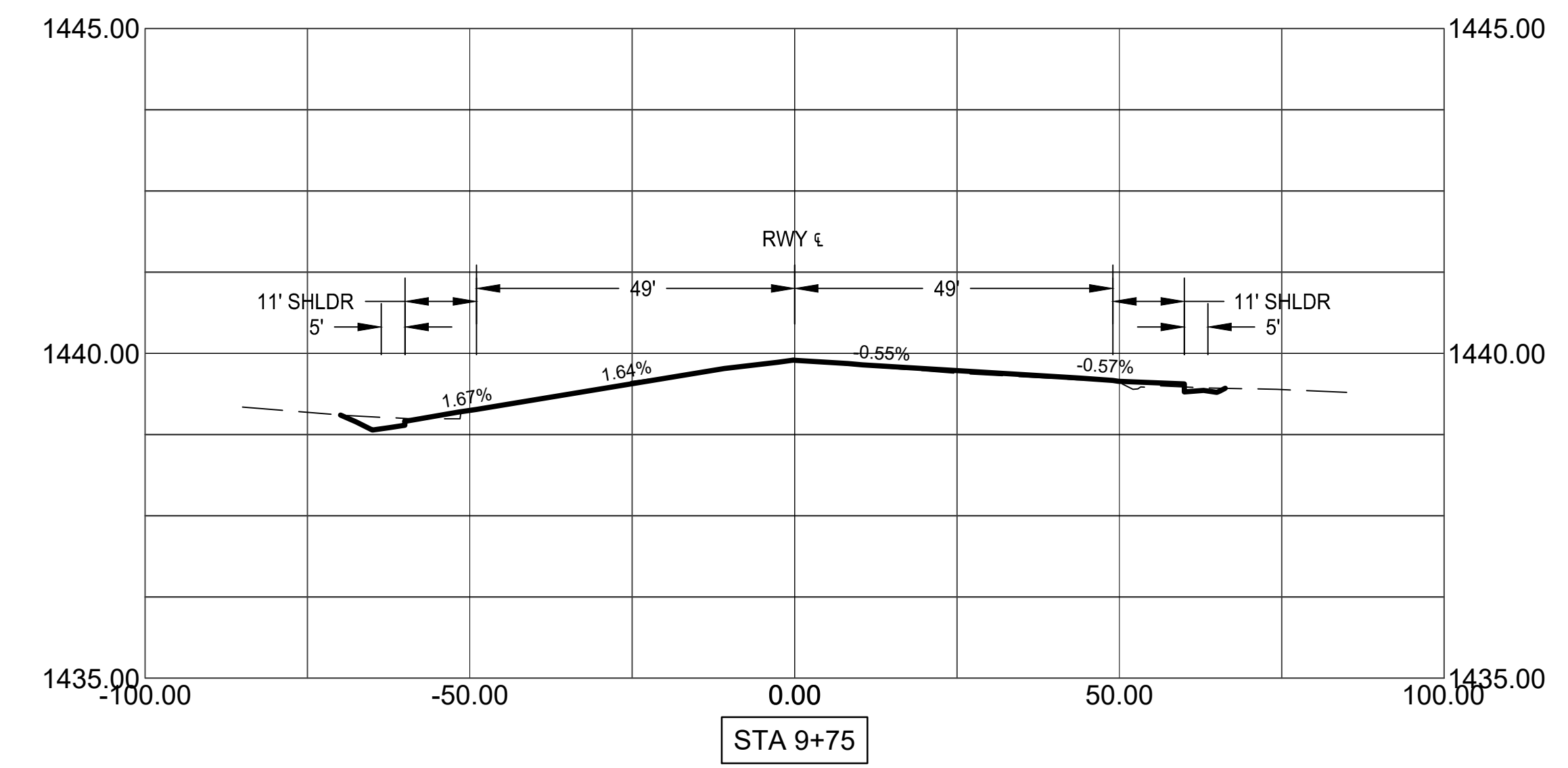
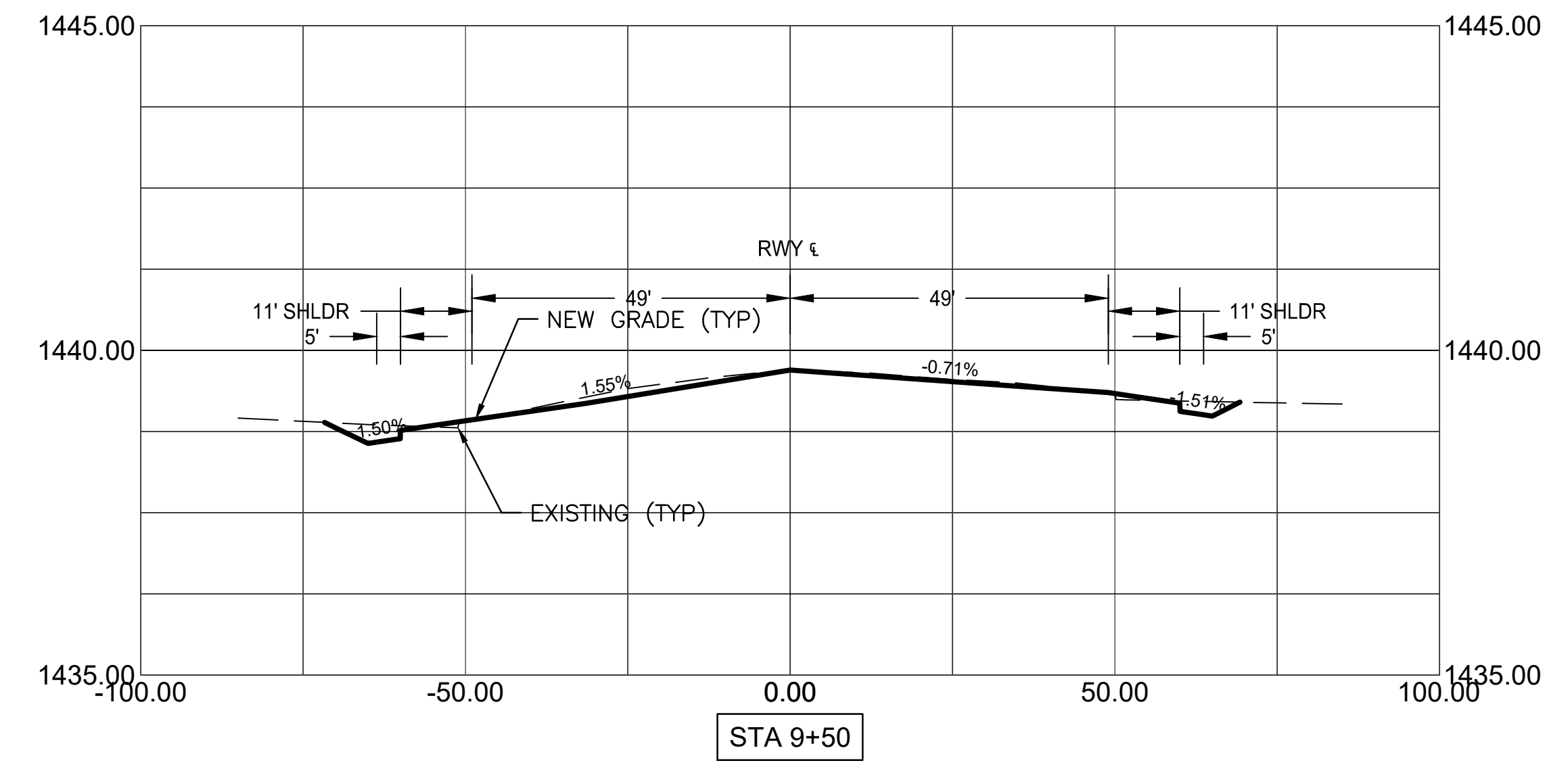
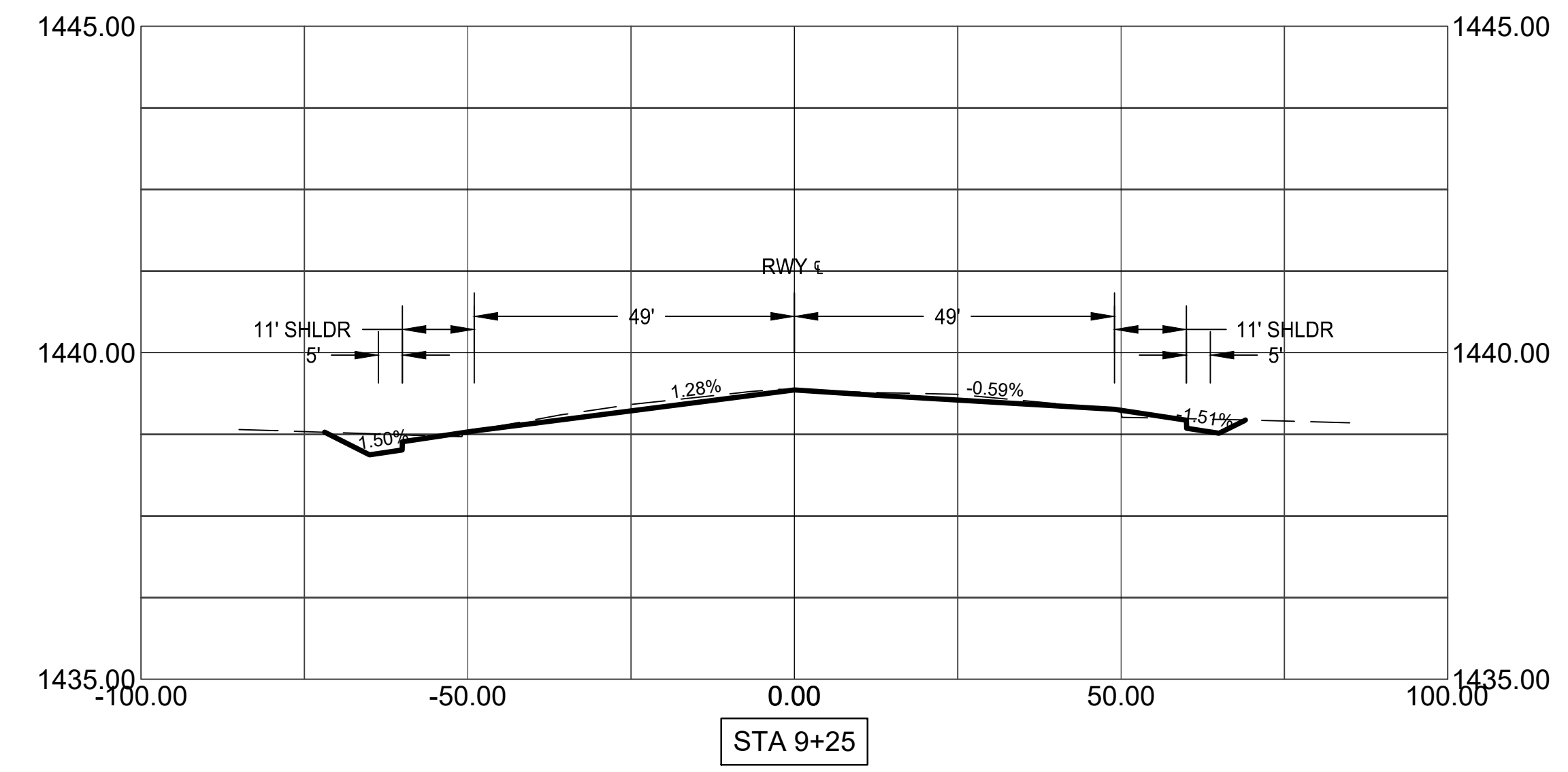
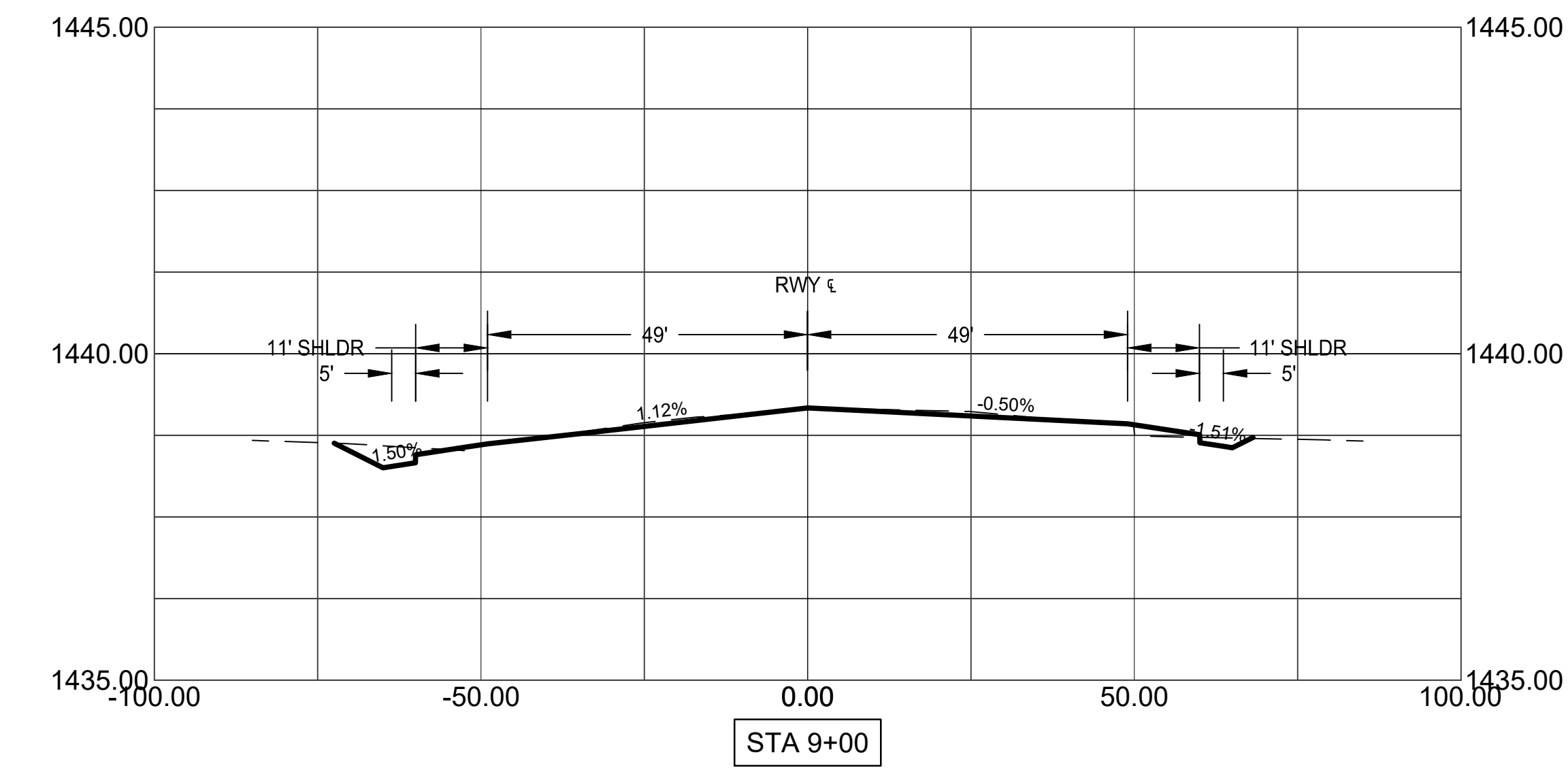
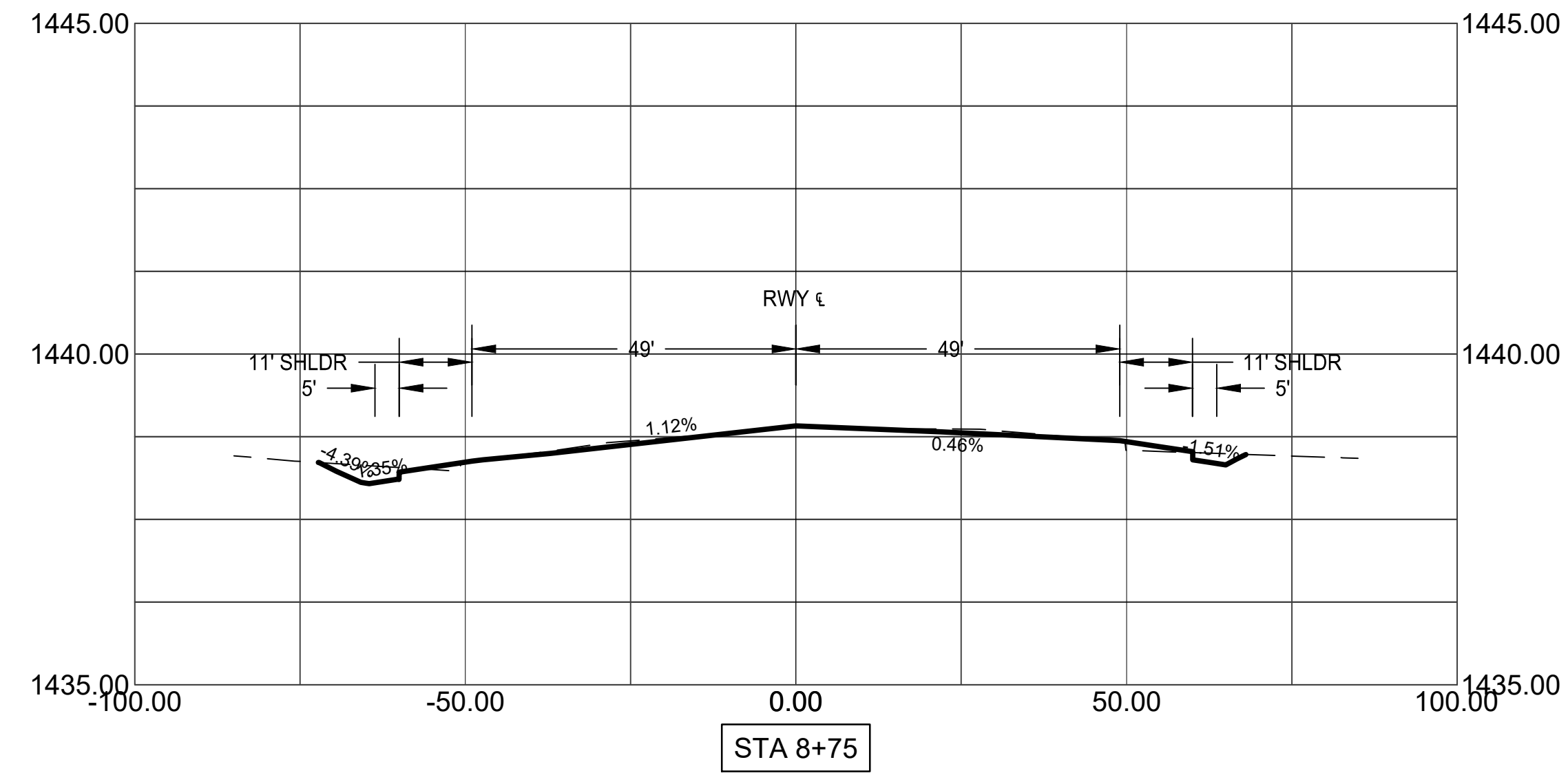
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Sheet Overview Title  
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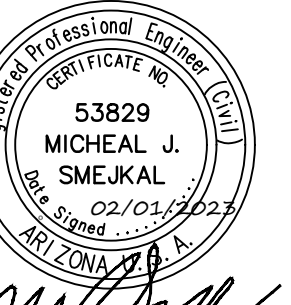
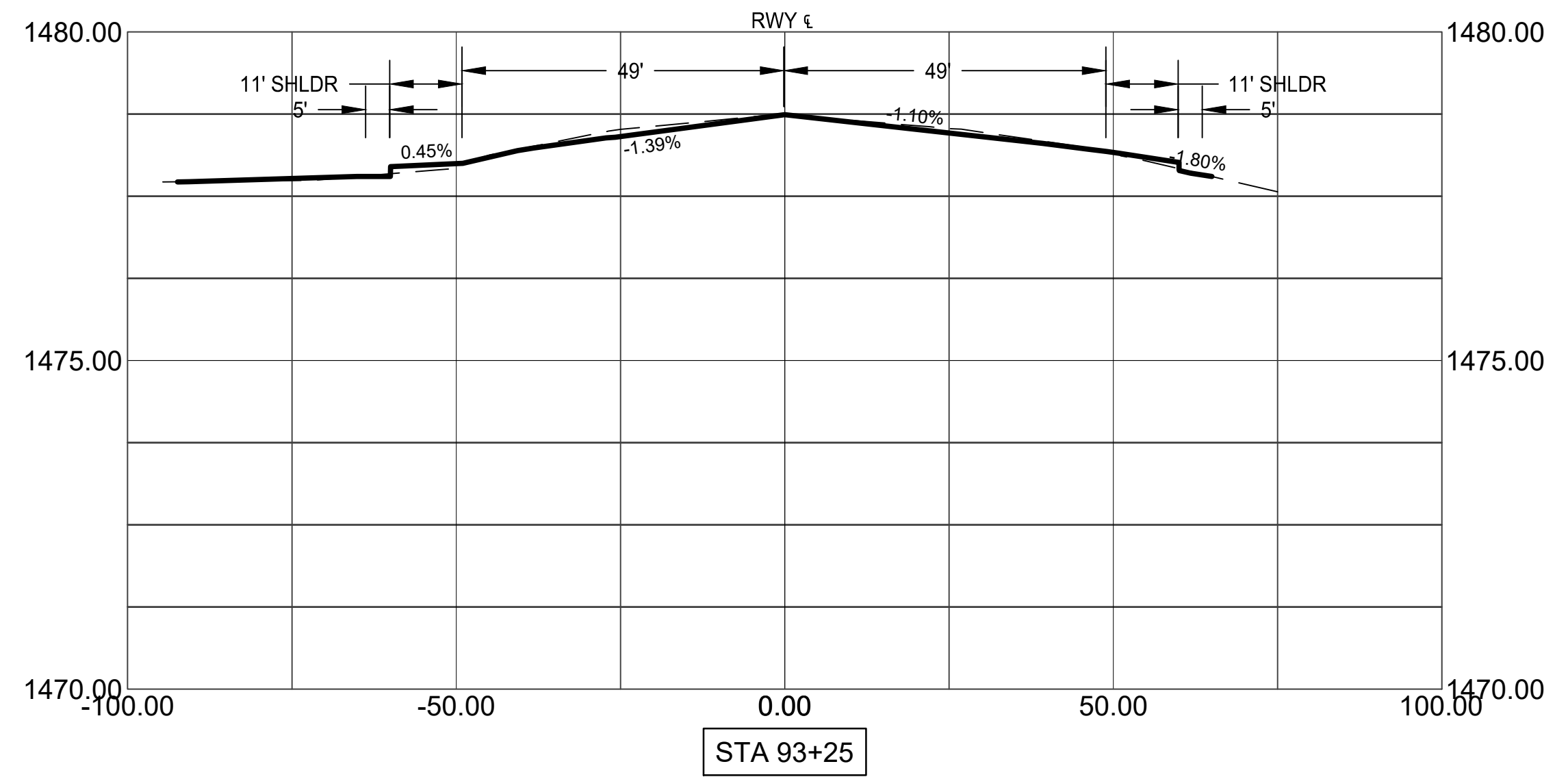
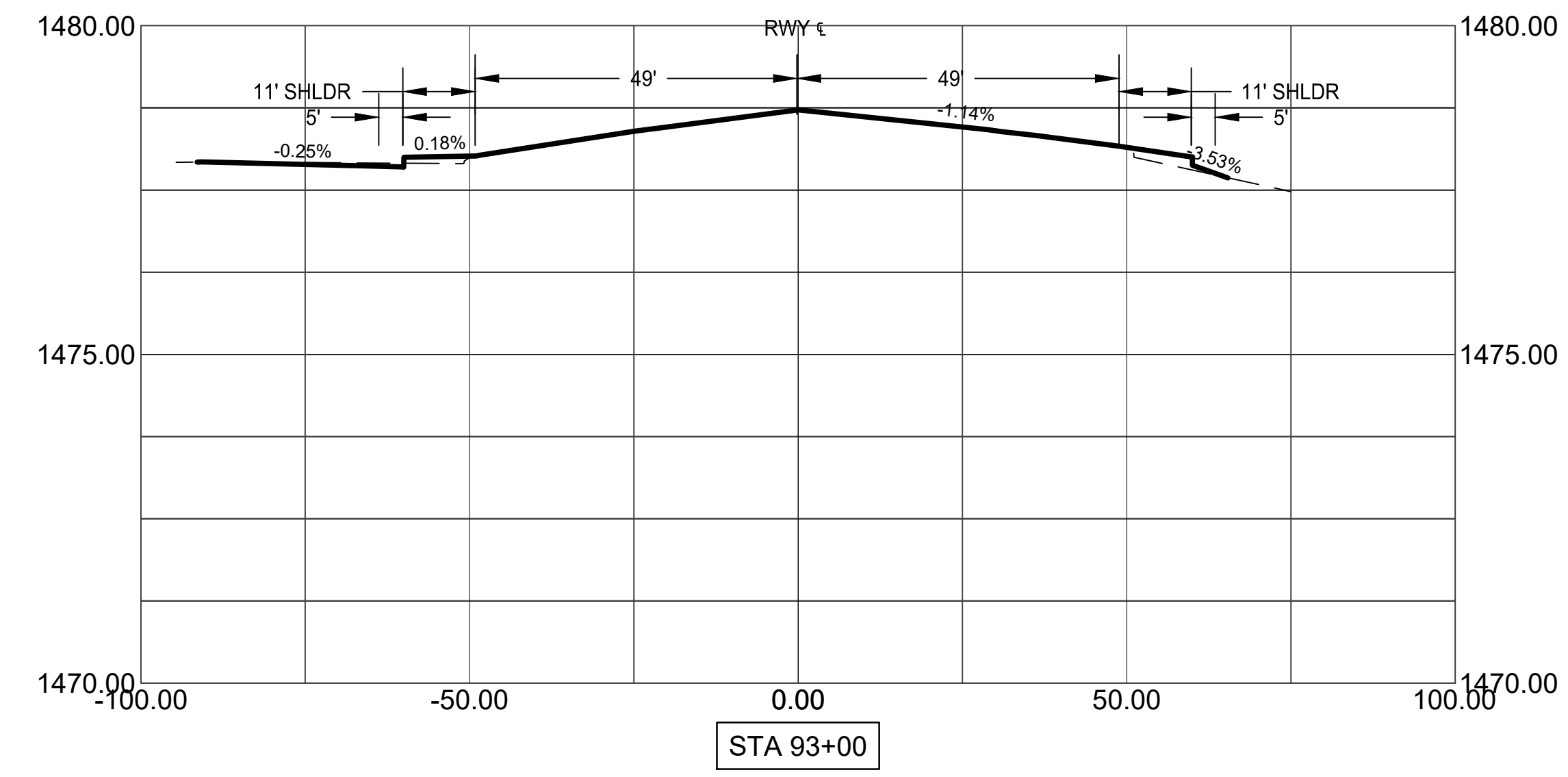
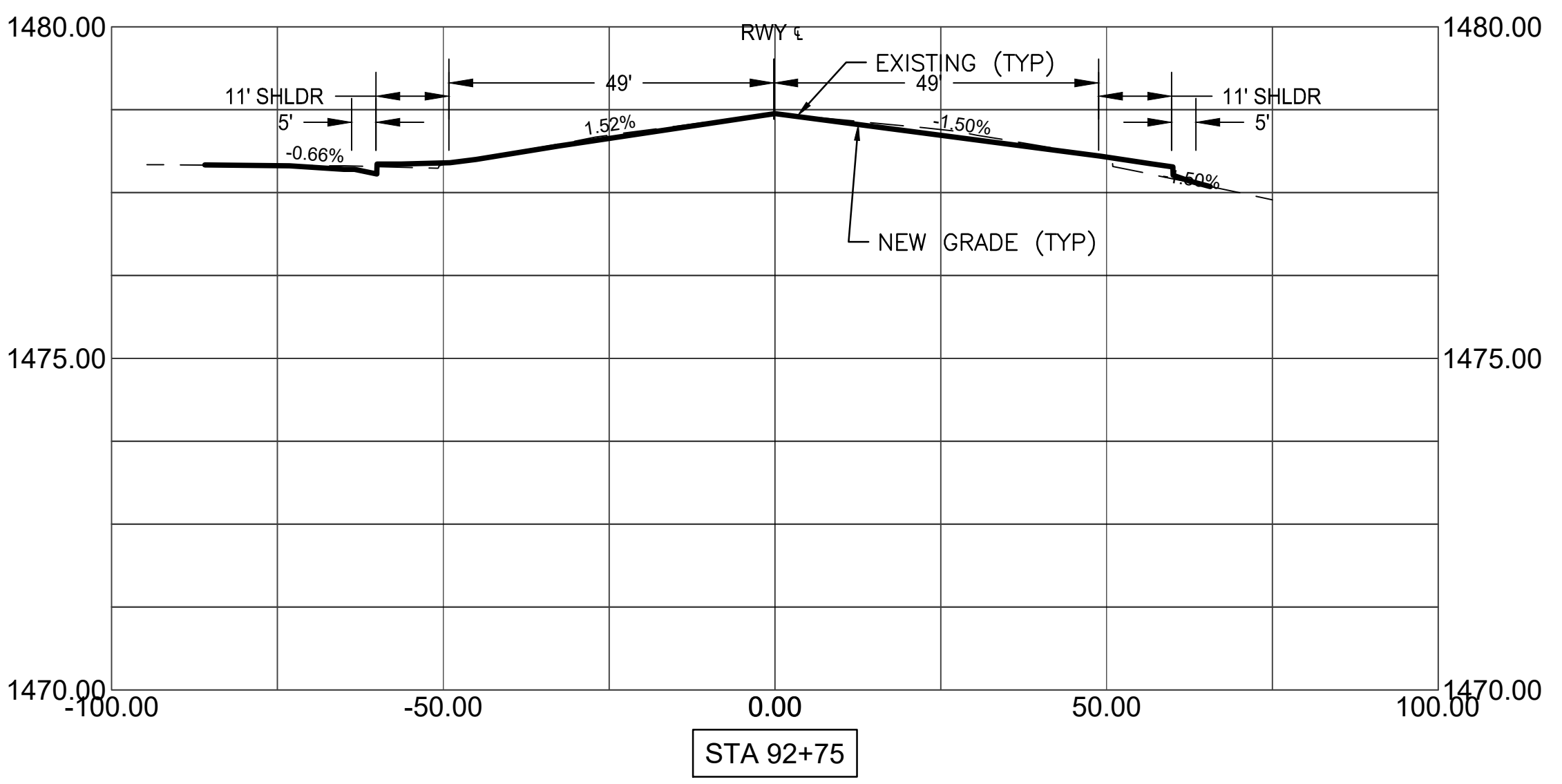
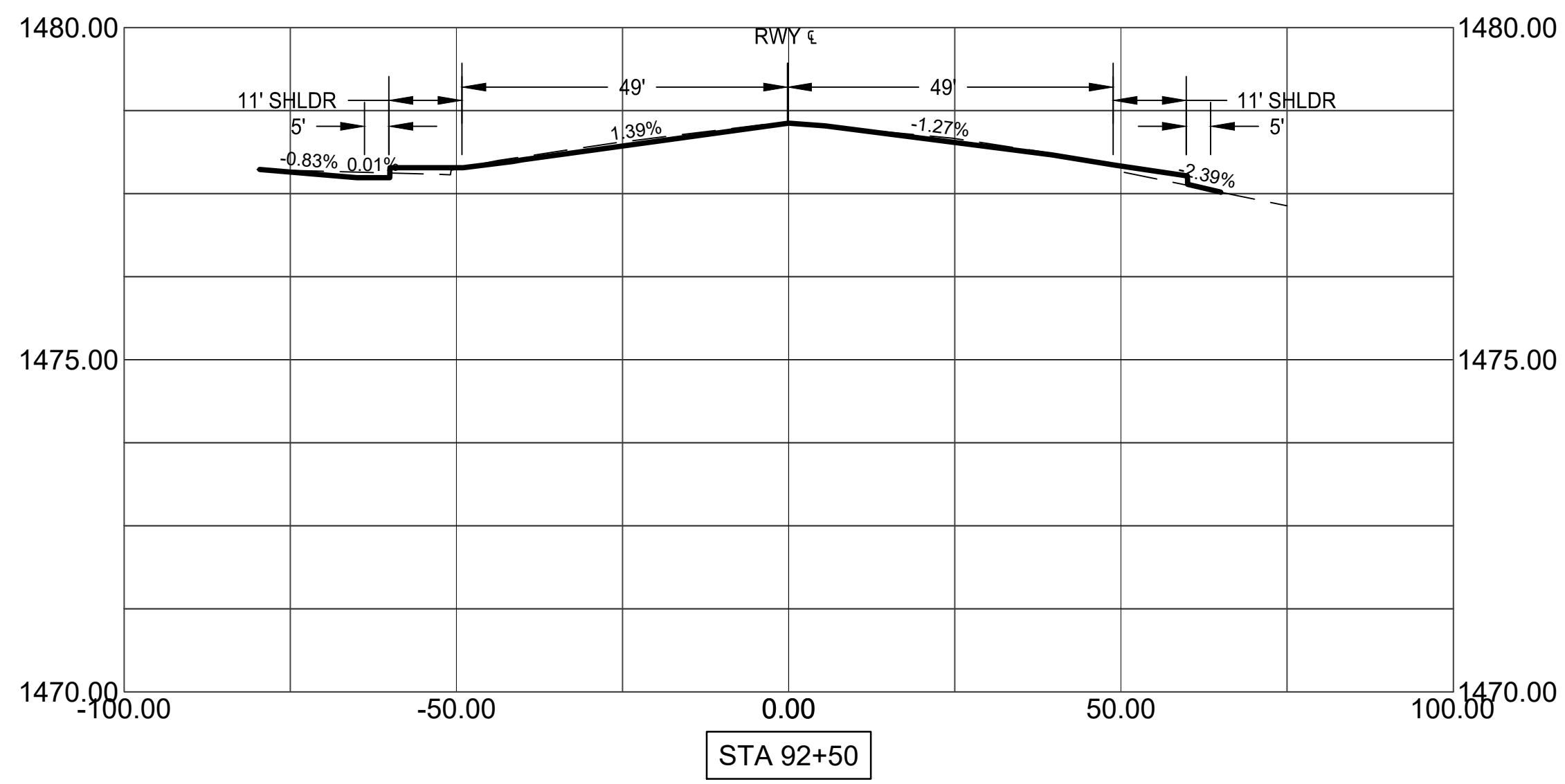
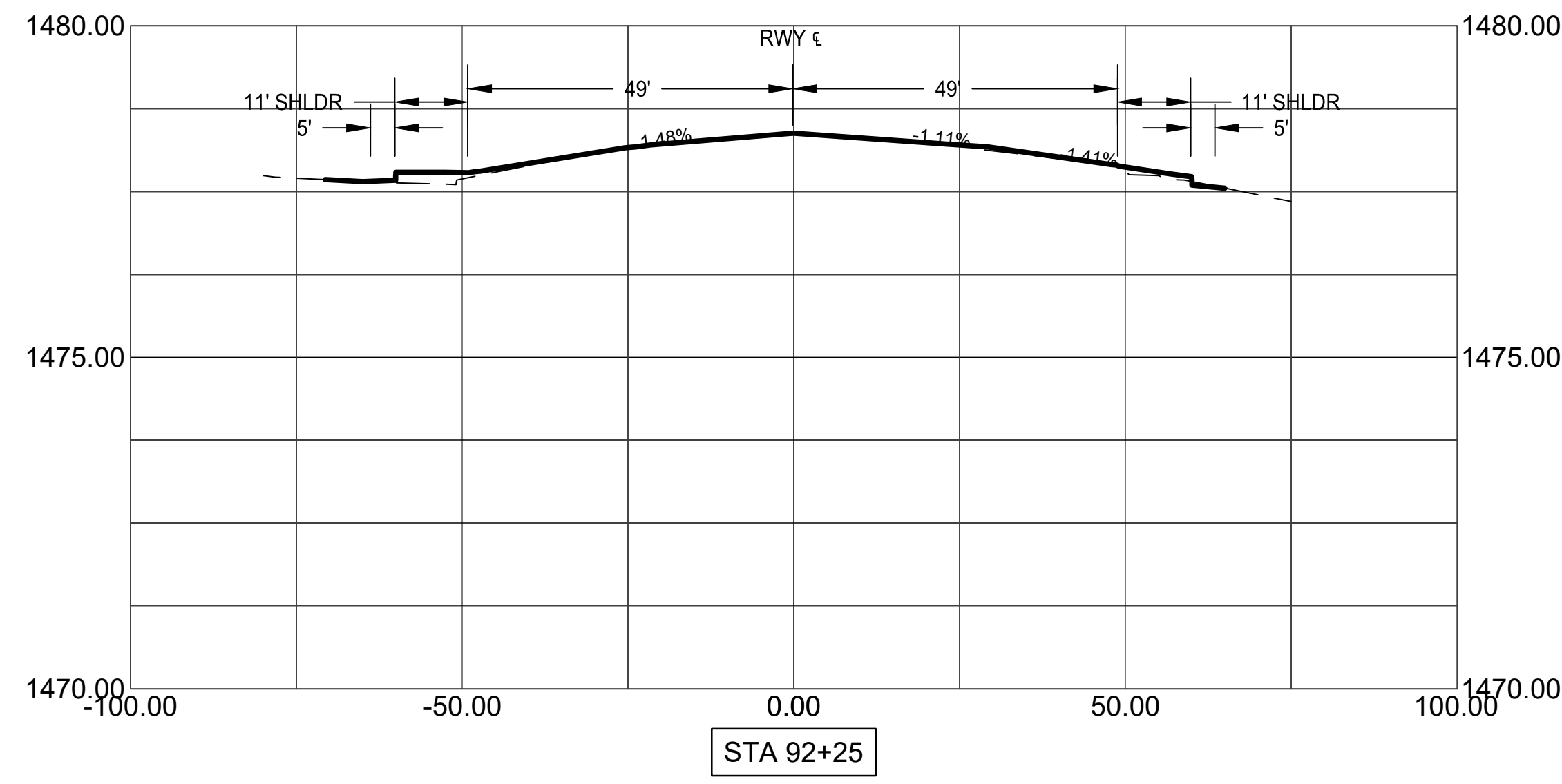
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Sheet Overview Title  
**CROSS SECTIONS 7R**

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Sheet Overview Title  
**CROSS SECTIONS 25L**

Sheet Reference Number:  
**C604**  
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**ELECTRICAL LEGEND:**

(UNLESS OTHERWISE NOTED ON PLANS)

- / - / - / - / - / - EXISTING ELECTRICAL CONDUIT AND CONDUCTOR
- E<sub>u</sub>----- PVC W/#8-5KV L-824 TYPE "C" CABLE PER INDICATED LIGHTING CIRCUIT. (QUANTITY AND SIZE AS INDICATED ON PLAN SHEETS)
- E<sub>n</sub>----- NEW ELECTRICAL CONDUIT AND CONDUCTOR
- ⊕ EXISTING TAXIWAY EDGE LIGHT
- ⊗ EXISTING RUNWAY EDGE LIGHT
- ▣ / ▣ EXISTING AIRFIELD GUIDANCE SIGN
- □ EXISTING ELECTRICAL HANDHOLE
- NEW L-861E INCANDESCENT/QUARTZ RUNWAY THRESHOLD/END LIGHT (RED)
- NEW L-861E INCANDESCENT/QUARTZ RUNWAY THRESHOLD/END LIGHT (RED/GREEN)

**ELECTRICAL ABBREVIATIONS:**

- BCC BARE COPPER GROUND
- CE CONCRETE ENCASED
- CKT CIRCUIT
- FAA FEDERAL AVIATION ADMINISTRATION
- GND GROUND
- KW KILOWATT
- LED LIGHT EMITTING DIODE
- LF LINEAR FEET
- NPI NON-PAY ITEM
- PVC POLY-VINYL CHLORIDE
- REIL RUNWAY END IDENTIFIER LIGHT
- RGL RUNWAY GUARD LIGHT
- SE SLURRY ENCASED
- SGN SIGN
- TYP TYPICAL

**ELECTRICAL DEMOLITION GENERAL NOTES**

1. WITHIN AREAS OF DEMOLITION AND AS OTHERWISE SHOWN, REMOVE IDENTIFIED LIGHT BASES, ISOLATION TRANSFORMERS AND OTHER INDICATED ITEMS.
2. **CABLE REMOVAL**
  - A. **DIRECT BURIAL:** REMOVE FROM WITHIN MANHOLES AND HANDHOLES AND REMOVE IN AREAS WHERE EXCAVATION REQUIRES DISTURBING, ABANDON ELSEWHERE.
  - B. **IN CONDUIT:** REMOVE COMPLETELY BETWEEN NEAREST BASES, HANDHOLES OR MANHOLES.
3. AT INDICATED DEVICES TO BE REMOVED OR IN DEMOLITION AREAS INDICATED, REMOVE ALL CONDUCTORS BACK TO NEAREST MANHOLE OR HANDHOLE OUTSIDE DEMOLITION AREA.
4. 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.
5. CONTRACTOR SHALL VERIFY EQUIPMENT AND CABLE DESIGNATIONS AND STATUS PRIOR TO REMOVAL OR DISCONNECTING.
6. UNLESS OTHERWISE NOTED, ALL REMOVED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES. REMOVED LIGHT FIXTURE AND SIGNS NOT DESIGNATED FOR RE-INSTALLATION SHALL BE OFFERED TO AIRPORT FOR RETURN UNLESS OTHERWISE NOTED.
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. 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.

**ADVISORY CIRCULARS FOR AIRPORT PROJECTS (MOST RECENT VERSION):**

- 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
- 150/5345-44 SPECIFICATION FOR RUNWAY AND TAXIWAY SIGNS
- 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)

**ELECTRICAL SHEET INDEX**

- E100 ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX
- E101 - E102 AIRFIELD ELECTRICAL DEMOLITION PLANS
- E201 - E202 AIRFIELD LIGHTING AND ELECTRICAL PLANS
- E301 ELECTRICAL DETAILS - CONDUIT DUCTBANKS AND DUCT MARKER
- E302 ELECTRICAL DETAILS - COUNTERPOISE AND GROUNDING
- E303 ELECTRICAL DETAILS - RGL ISOLATION AND HANDHOLE ADJUSTMENT
- E304 ELECTRICAL DETAILS - RUNWAY THRESHOLD/END LIGHT AND 5KV CABLE SPLICE
- E305 ELECTRICAL DETAILS - ELEVATED RUNWAY THRESHOLD/END LIGHT ON L-868 BASE
- E306 ELECTRICAL DETAILS - RUNWAY 7R-25L TEMPORARY THRESHOLD/END LIGHTING
- E401 EQUIPMENT DATA TABLE

**AIRFIELD LIGHT LOCKOUT/TAGOUT POLICY**

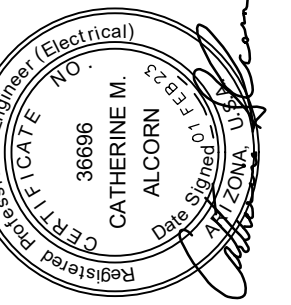
THE PURPOSE OF THIS POLICY IS TO STANDARDIZE THE LOCKOUT/TAGOUT PROCEDURES BETWEEN ELECTRICAL CONTRACTORS, DEER VALLEY ELECTRICIANS, OPERATIONS AND AIR TRAFFIC CONTROL TOWER (ATCT).

1. DEER VALLEY ELECTRICIANS RESPONDING TO A LOCK-OUT/TAG-OUT REQUEST WILL COORDINATE WITH THE ATCT THROUGH OPERATIONS.
2. AFTER OPERATIONS NOTIFIES ELECTRICIANS OF CLOSURES, THE DEER VALLEY ELECTRICIANS WILL TURN OFF THE CLOSED RUNWAYS/TAXIWAYS USING THE AIRFIELD COMPUTER SYSTEM.
3. THE CONTRACTOR WILL SUPPLY AN APPROVED BREAKER-LOCKING DEVICE AND LOCK, THEN LOCK OF THE INDIVIDUAL BREAKERS FOR THE CIRCUITS TO BE LOCKED OUT. THESE ITEMS WILL REMAIN IN THE VAULTS IN A LOCK BOX PROVIDED BY DEER VALLEY ELECTRICAL SECTION.
4. DEER VALLEY ELECTRIC SECTION WILL LOCK THE PANEL DOORS SHUT WITH A HASP AND AN ELECTRICAL SECTION LOCK.
5. THE S-1 CUTOUTS WILL BE PULLED, LOCKED AND PLACED ON THE CORRESPONDING REGULATOR BY THE ELECTRICAL CONTRACTOR.
6. THE ELECTRICAL CONTRACTOR AND DEER VALLEY ELECTRICIANS MUST FILL OUT LOCK-OUT FORMS BEFORE LEAVING THE VAULT.
7. UPON COMPLETION OF THE LOCKOUT, THE CONTRACTOR WILL REMOVE ALL LOCKS AND INSTALL THE S-1 CUTOUTS. 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.
8. WHEN THAT HAS BEEN COMPLETED, DEER VALLEY 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.
9. COMPLETE LOCK-OUT/LOCK-IN FORMS.

\*THIS PROCEDURAL CHECKLIST MUST BE FOLLOWED TO THE LETTER.

**ELECTRICAL CONSTRUCTION PHASING NOTES**

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT MAINTENANCE, AIRPORT OPERATIONS, AND THE ENGINEER AS NECESSARY.
2. CONTRACTOR SHALL GIVE 48 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 DVT 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. TEMPORARILY MOUNT AND FEED EXISTING RUNWAY 7R/25L END/THRESHOLD LIGHTS FOR MAINTAINING OPERATIONS DURING NON-CONSTRUCTION HOURS. CONTRACTOR WILL BE REQUIRED TO MOVE DURING PAVEMENT RECONSTRUCTION.
9. UNCOVER SIGNS AND EDGE LIGHT FIXTURES, REMOVE TEMPORARY JUMPERS, AND VERIFY OPERATION AT THE END OF PROJECT.



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY BE USED FOR ANY OTHER PURPOSES EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

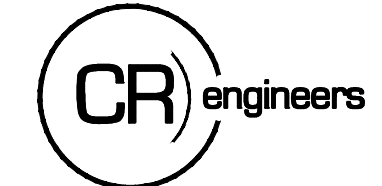
**PHX DVT EYR**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PHOENIX DEER VALLEY AIRPORT  
 RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
 702 W. DEER VALLEY RD.,  
 PHOENIX, ARIZONA 85027

Designed by: SW	Drawn by: JBW	Checked by: CA	Date: 02/01/23	Dwg. scale: AS NOTED
CIP NO.(S): AV31000094				

Sheet Overview Title  
**ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX**

Sheet Reference Number:  
**E100**

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12.13.2022

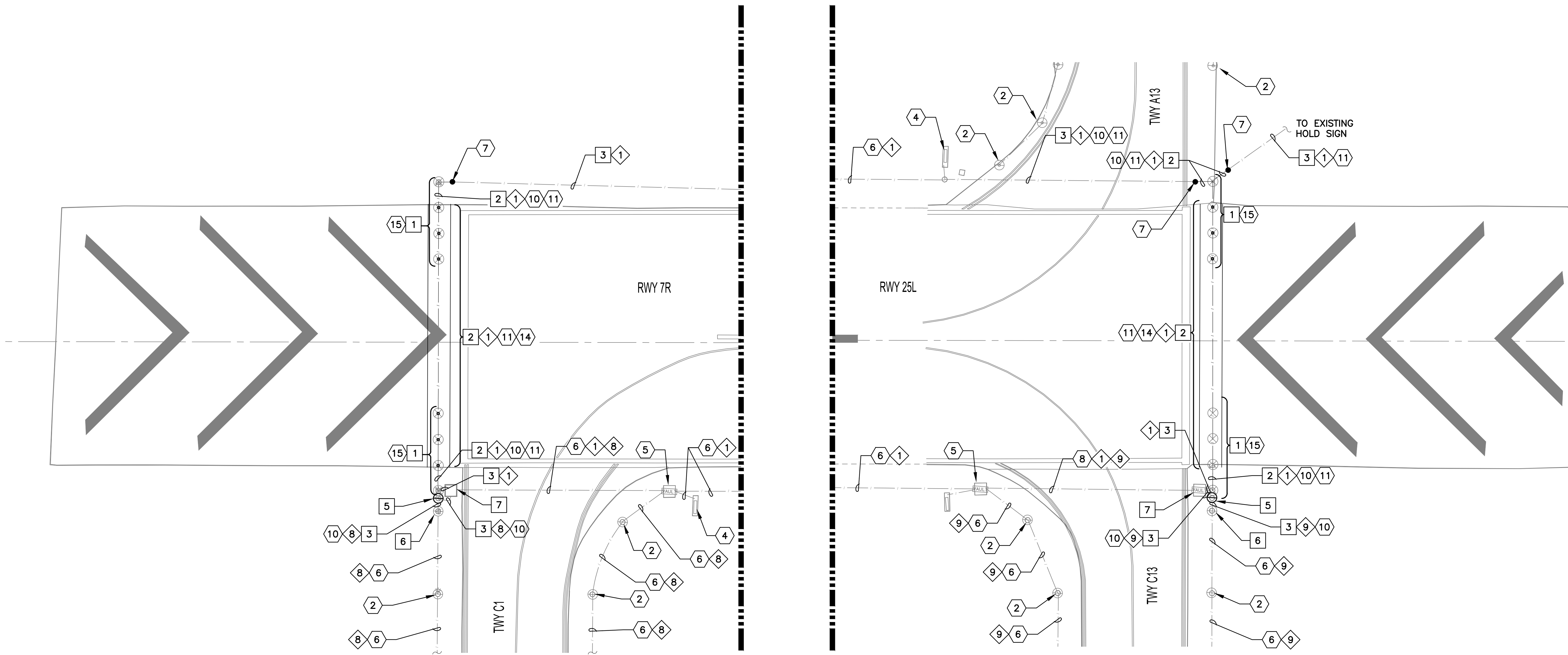


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1.17.2023



☐ DEMOLITION NOTES ☐

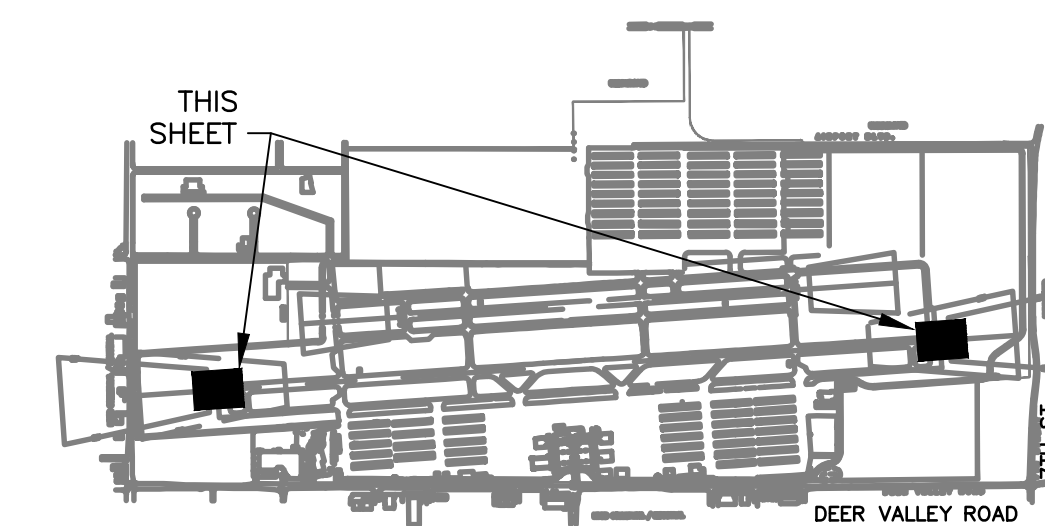
- 1 REMOVE AND SALVAGE RUNWAY THRESHOLD/END LIGHT AND ISOLATION TRANSFORMER - REMOVE BASE CAN. TEMPORARILY MOUNT FIXTURES DURING CONSTRUCTION. SEE SHEET E306. (16 TOTAL)
- 2 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR (245 LF)
- 3 REMOVE EXISTING CONDUCTOR TO NEXT ADJACENT LIGHT BASE OR HANDHOLE - CONDUIT TO REMAIN (555 LF)
- 5 REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER - REMOVE BASE CAN (2 TOTAL)
- 6 REMOVE AND SALVAGE EXISTING TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER - BASE CAN TO REMAIN. INSTALL TEMPORARY COVER. (2 TOTAL)
- 7 REMOVE EXISTING HANDHOLE LID FOR ELEVATION ADJUSTMENT TO NEW GRADE (2 TOTAL)

○ REFERENCE NOTES ○

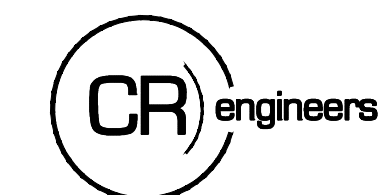
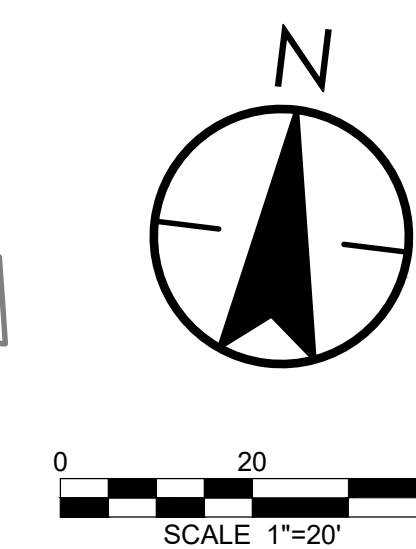
- 2 EXISTING TAXIWAY EDGE LIGHT TO REMAIN - PROTECT IN PLACE
- 4 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE
- 5 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE
- 6 EXISTING CONDUIT AND CONDUCTOR - PROTECT IN PLACE
- 7 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
- 8 EXISTING DUCTBANK - PROTECT IN PLACE
- 10 COORDINATE WITH AIRPORT FOR LOCKOUT/TAGOUT OF AFFECTED CIRCUIT(S).
- 11 INSTALL TEMPORARY AIRFIELD CIRCUIT JUMPER TO MAINTAIN OPERATION OF CIRCUIT(S).
- 14 COORDINATE WITH GENERAL CONTRACTOR AND CIVIL PLANS FOR FULL DEPTH SAWCUT OF EXISTING PAVEMENT FOR REMOVAL OF EXISTING (AND INSTALLATION OF NEW) RUNWAY END LIGHT BASES AND CONDUIT FOR ~~SEALCOAT~~ MILL AND OVERLAY OF EXISTING BLAST PADS.
- 15 INSTALL TEMPORARY RUNWAY END LIGHTS AND CIRCUIT JUMPERS TO MAINTAIN OPERATION OF CIRCUIT DURING NON-CONSTRUCTION HOURS. MOVE TEMPORARY LIGHTING AS REQUIRED DURING CONSTRUCTION. REFER TO SHEET E306 FOR DETAILS.

◇ CIRCUIT IDENTIFICATION ◇

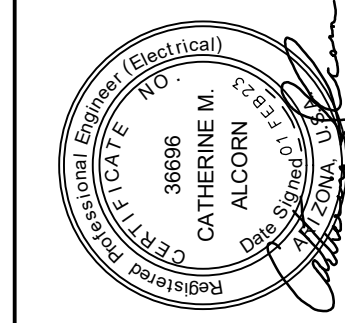
- 1 RW 7R/25L
- 8 TAXIWAY C WEST
- 9 TAXIWAY C EAST



KEY MAP  
NTS



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NO.	REVISIONS / SUBMISSIONS	DATE
1	REMOVE SEALCOAT ALTERNATIVE	5/1/23

**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
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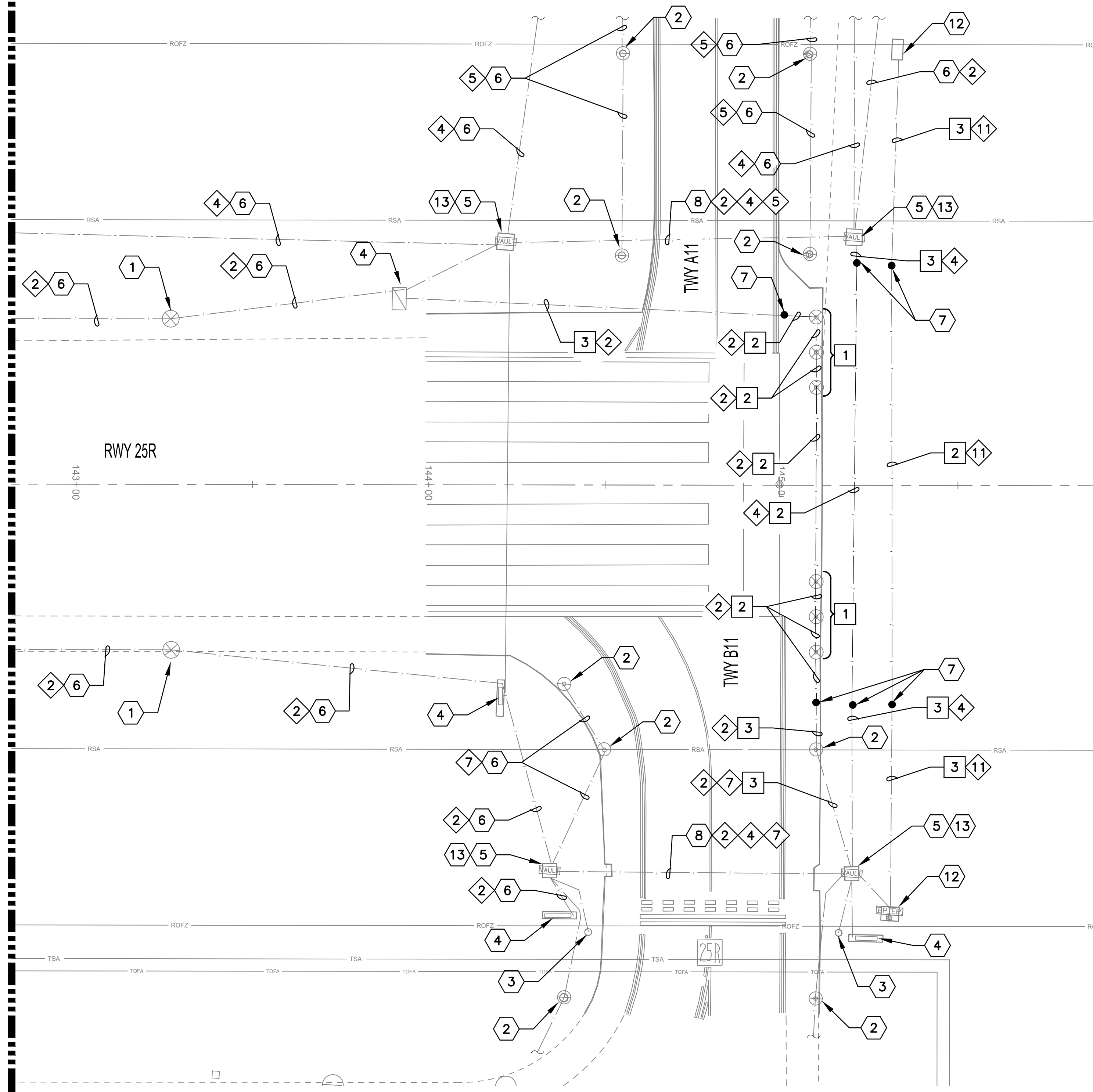
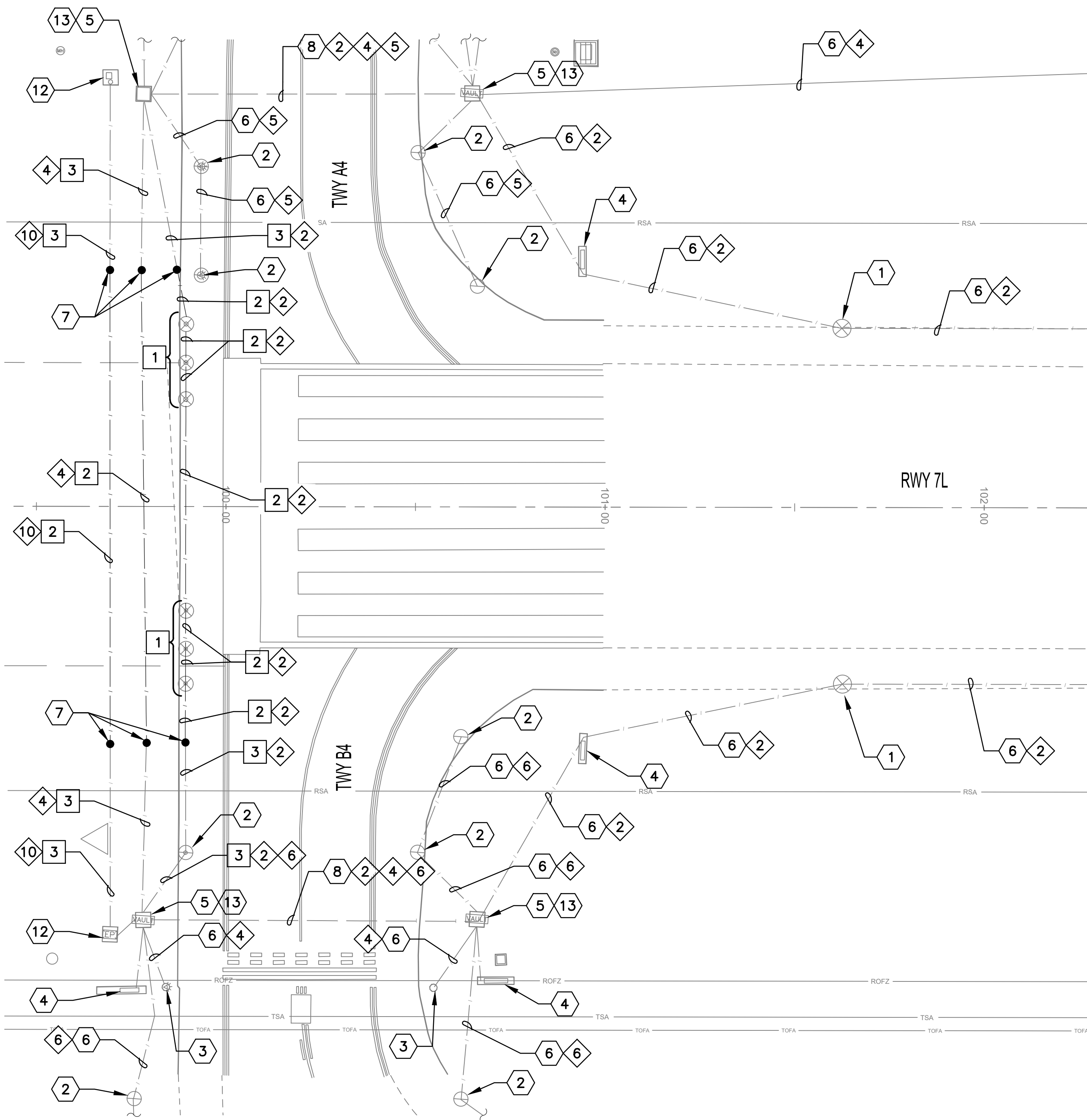
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Drawn by: JBW  
Checked by: CA  
Date: 02/01/23  
Dwg. scale: AS NOTED  
CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
AIRFIELD ELECTRICAL DEMOLITION  
PLAN**

Sheet Reference Number:  
**E101**  
Sheet 28 of 38



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1.17.2023

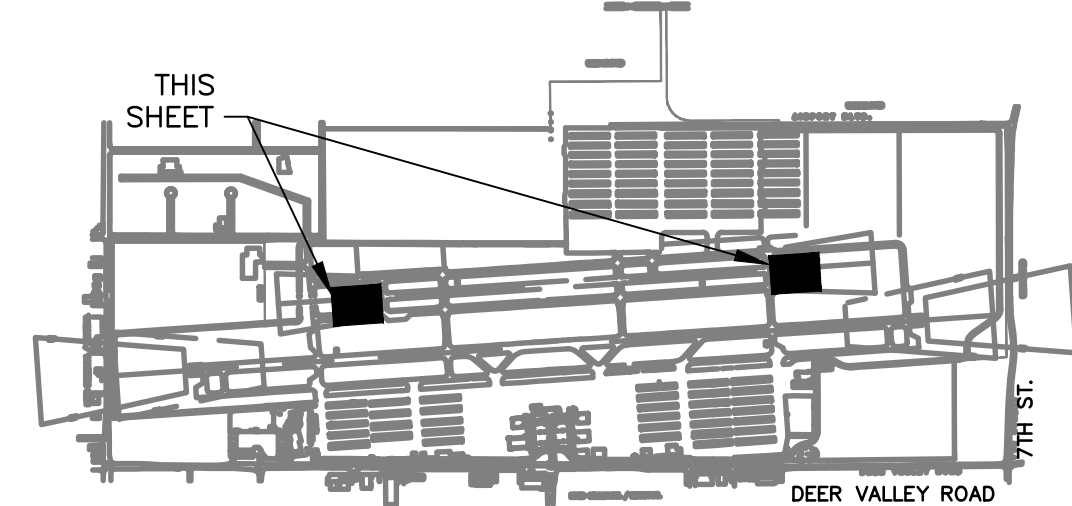


- DEMOLITION NOTES**
- 1 REMOVE AND SALVAGE RUNWAY THRESHOLD/END LIGHT AND ISOLATION TRANSFORMER - REMOVE BASE CAN (12 TOTAL)
  - 2 EXCAVATE AND REMOVE EXISTING CONDUIT AND CONDUCTOR (785 LF)
  - 3 REMOVE EXISTING CONDUCTOR TO NEXT ADJACENT LIGHT BASE OR HANDHOLE - CONDUIT TO REMAIN (770 LF)

- REFERENCE NOTES**
- 1 EXISTING RUNWAY EDGE LIGHT TO REMAIN - PROTECT IN PLACE
  - 2 EXISTING TAXIWAY EDGE LIGHT TO REMAIN - PROTECT IN PLACE
  - 3 EXISTING ELEVATED RUNWAY GUARD LIGHT TO REMAIN - PROTECT IN PLACE
  - 4 EXISTING AIRFIELD GUIDANCE SIGN TO REMAIN - PROTECT IN PLACE
  - 5 EXISTING HANDHOLE TO REMAIN - PROTECT IN PLACE
  - 6 EXISTING CONDUIT AND CONDUCTOR - PROTECT IN PLACE

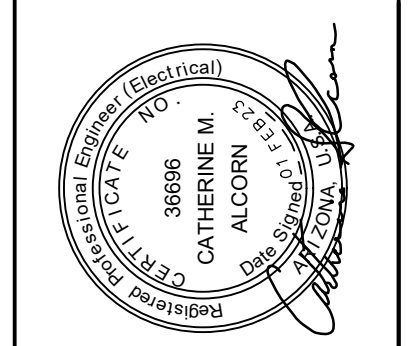
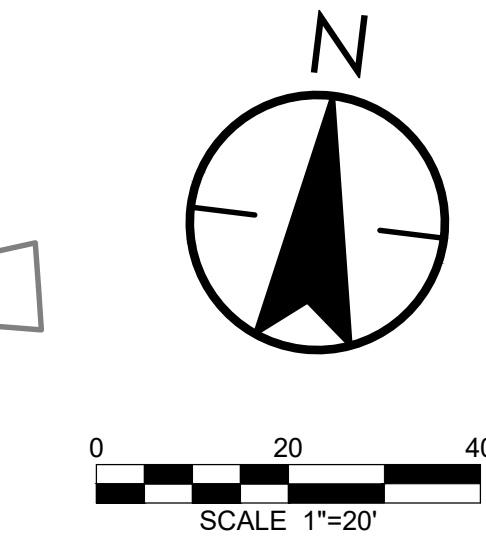
- 7 APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
- 8 EXISTING DUCTBANK - PROTECT IN PLACE
- 10 COORDINATE WITH AIRPORT FOR LOCKOUT/TAGOUT OF AFFECTED CIRCUIT(S)
- 11 INSTALL TEMPORARY AIRFIELD CIRCUIT JUMPER TO MAINTAIN OPERATION OF CIRCUIT(S)
- 12 EXISTING REIL TO REMAIN - PROTECT IN PLACE
- 13 MAINTAIN EXISTING RGL BOXES AND CONDUIT IN EXISTING HANDHOLE

- CIRCUIT IDENTIFICATION**
- 2 RW 7L/25R
  - 4 RGL 7L/25R
  - 5 TAXIWAY A
  - 6 TAXIWAY B WEST
  - 7 TAXIWAY B EAST
  - 10 REIL 7L
  - 11 REIL 25R



**KEY MAP**  
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NO.	REVISIONS / SUBMISSIONS	DATE

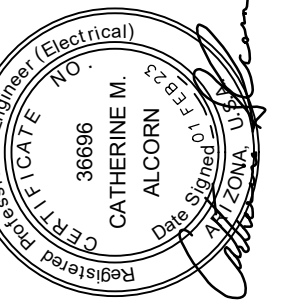
**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: SW  
Drawn by: JBW  
Checked by: CA  
Date: 02/01/23  
Dwg scale: AS NOTED  
CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
AIRFIELD ELECTRICAL DEMOLITION  
PLAN**

Sheet Reference Number:  
**E102**  
Sheet 29 of 38

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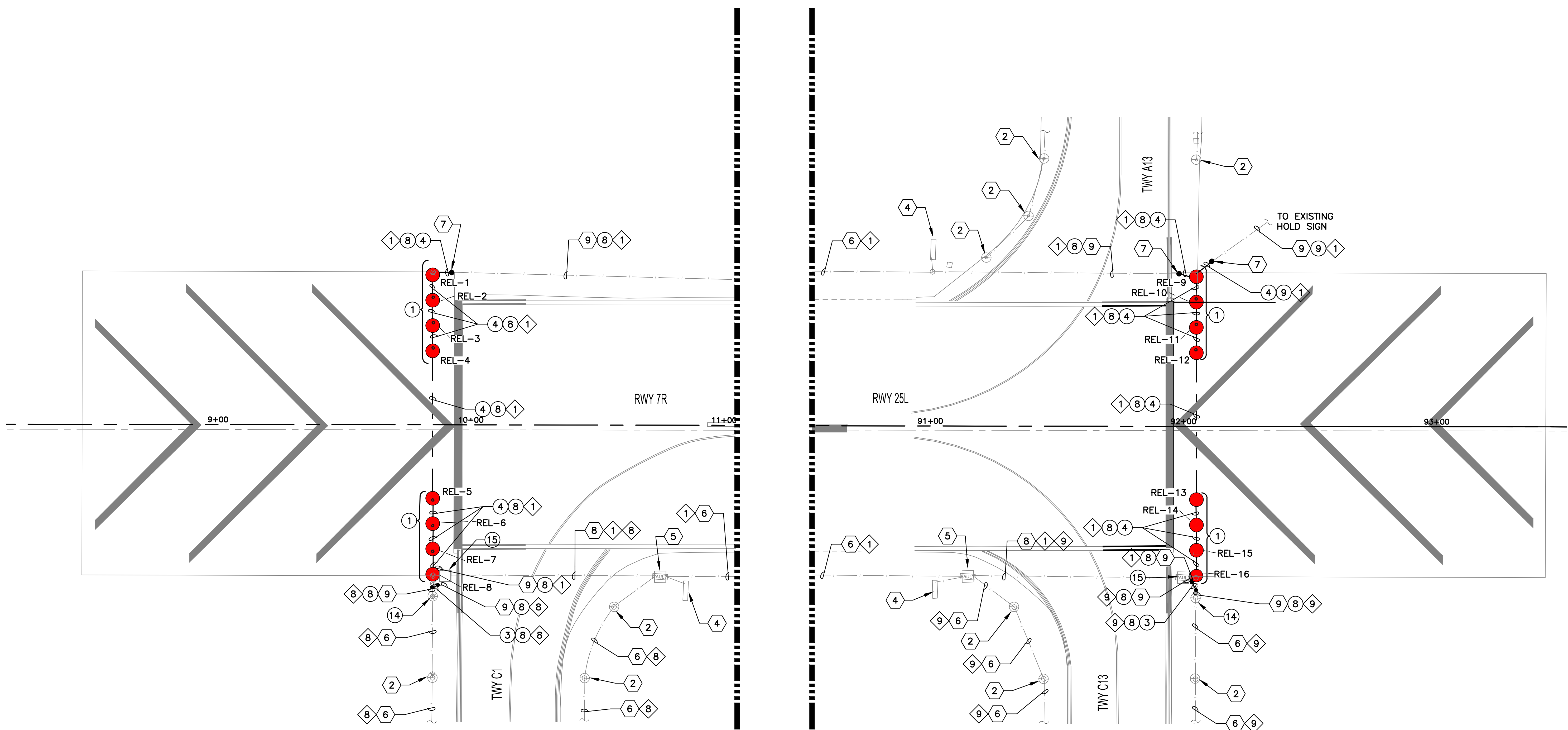
NO.	REVISIONS / SUBMISSIONS	DATE

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PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: SW  
Drawn by: JBW  
Checked by: CA  
Date: 02/01/23  
Dwg. scale: AS NOTED  
CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7R/25L BLAST PADS  
AIRFIELD LIGHTING AND  
ELECTRICAL PLAN**

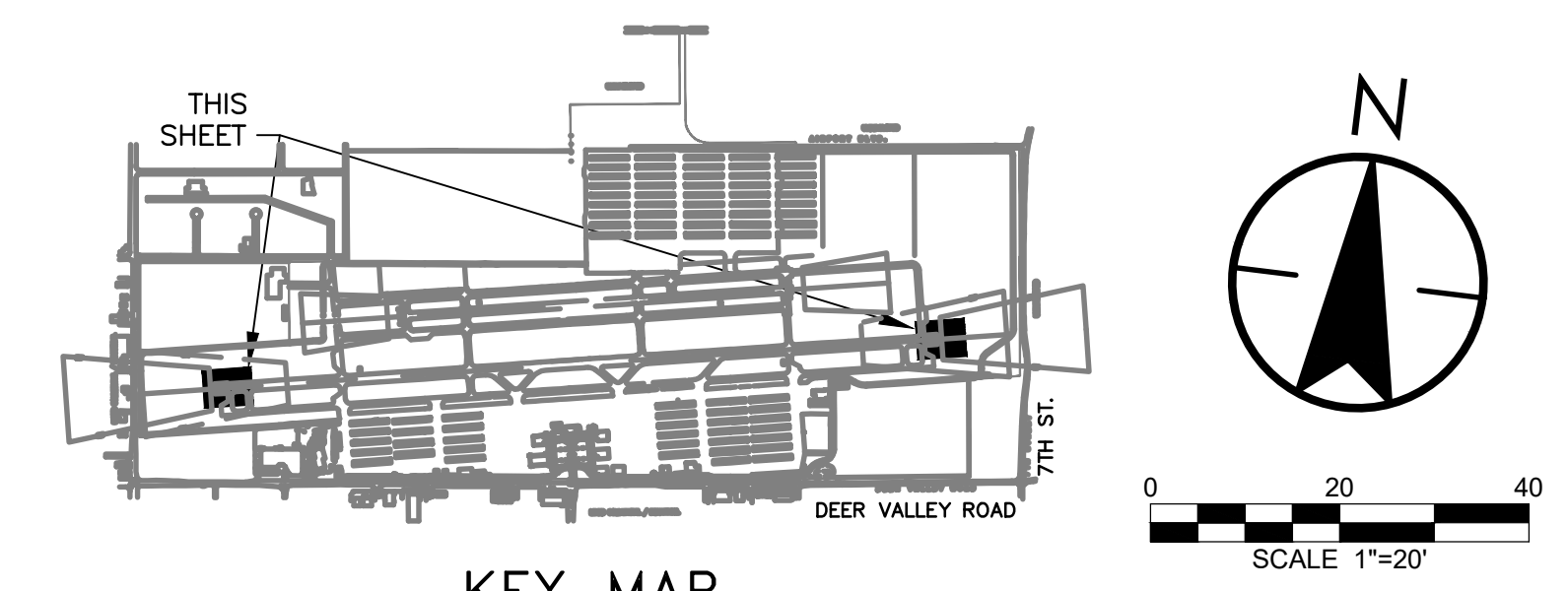
Sheet Reference Number:  
**E201**  
Sheet 30 of 38



- CONSTRUCTION NOTES ○
- ① INSTALL NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD/END LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN (16 TOTAL)
  - ③ 1-2" C SE (10 LF)
  - ④ 1-2" C CE (275 LF)
  - ⑧ 1/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (810 LF)
  - ⑨ 2/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (235 LF)
  - ⑭ INSTALL SALVAGED TAXIWAY EDGE LIGHT AND ISOLATION TRANSFORMER ON EXISTING L-867 BASE CAN (2 TOTAL)
  - ⑮ ADJUST EXISTING HANDHOLE LID TO NEW GRADE AS REQUIRED (2 TOTAL)

- ◇ REFERENCE NOTES ◇
- ② EXISTING TAXIWAY EDGE LIGHT
  - ④ EXISTING AIRFIELD GUIDANCE SIGN
  - ⑤ EXISTING HANDHOLE
  - ⑥ EXISTING CONDUIT AND CONDUCTOR
  - ⑦ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
  - ⑧ EXISTING EXISTING DUCTBANK
  - ⑨ EXISTING CONDUIT

- ◇ CIRCUIT IDENTIFICATION ◇
- ① RW 7R/25L
  - ⑧ TAXIWAY C WEST
  - ⑨ TAXIWAY C EAST

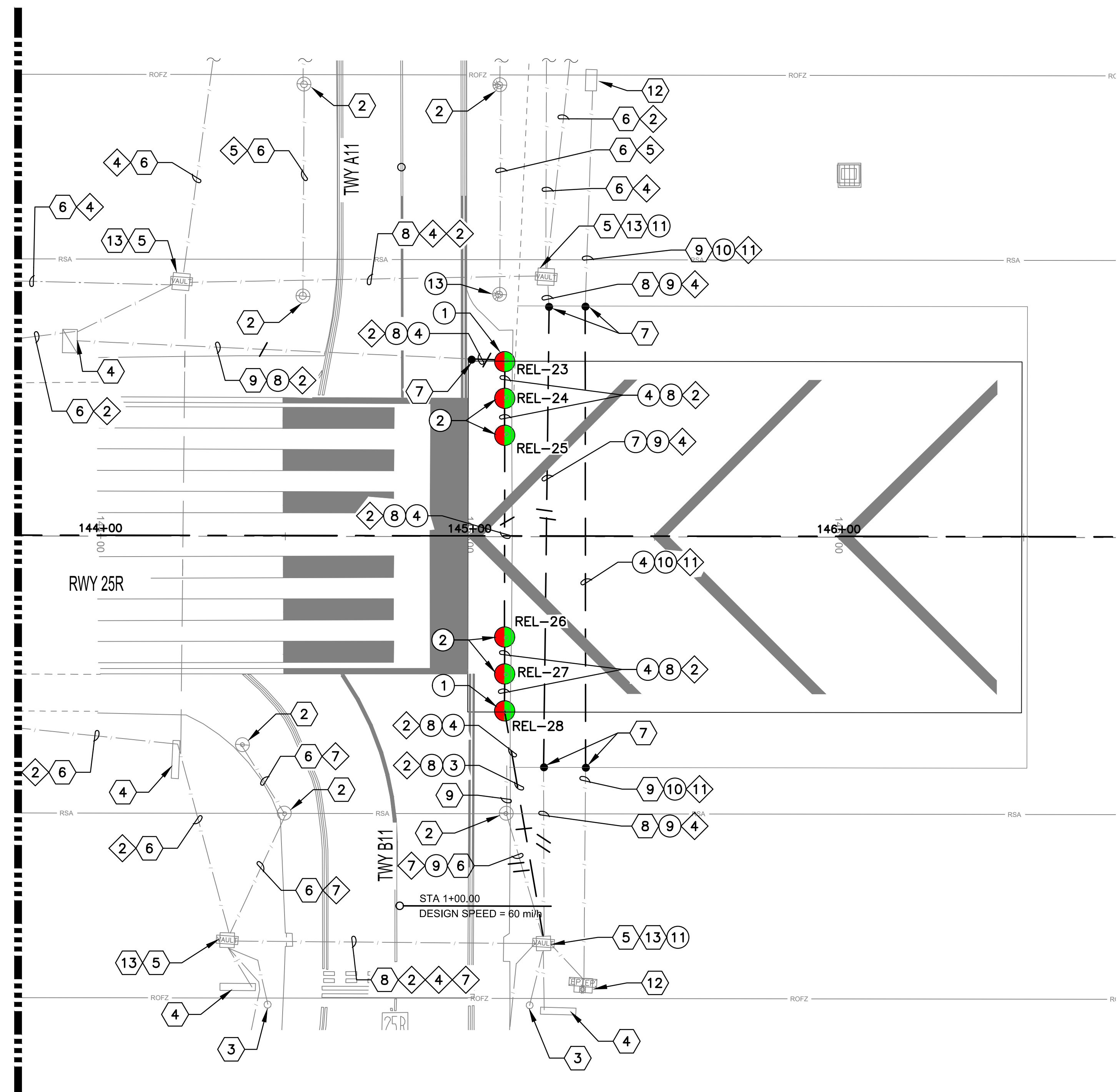
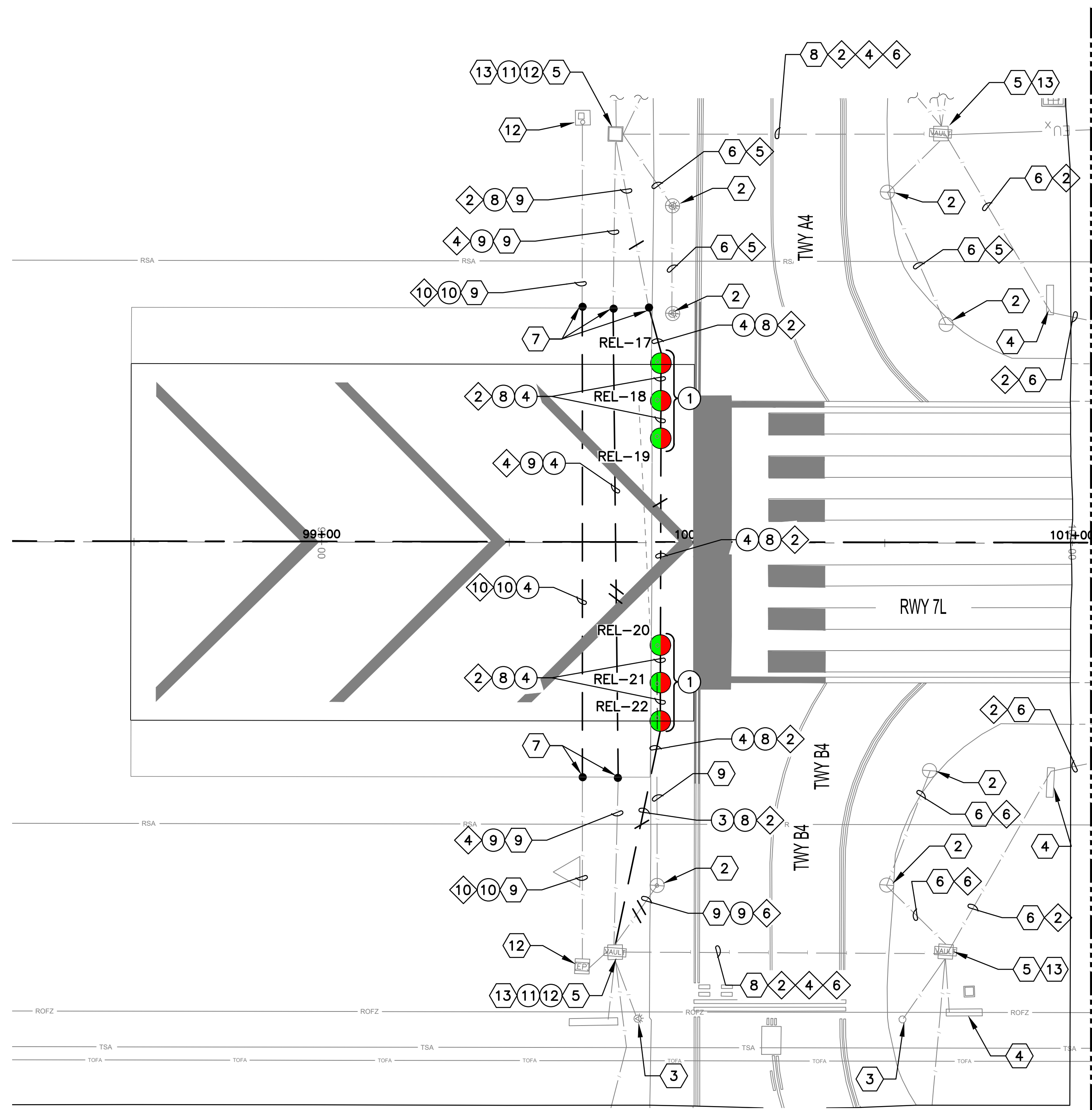


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○ CONSTRUCTION NOTES ○

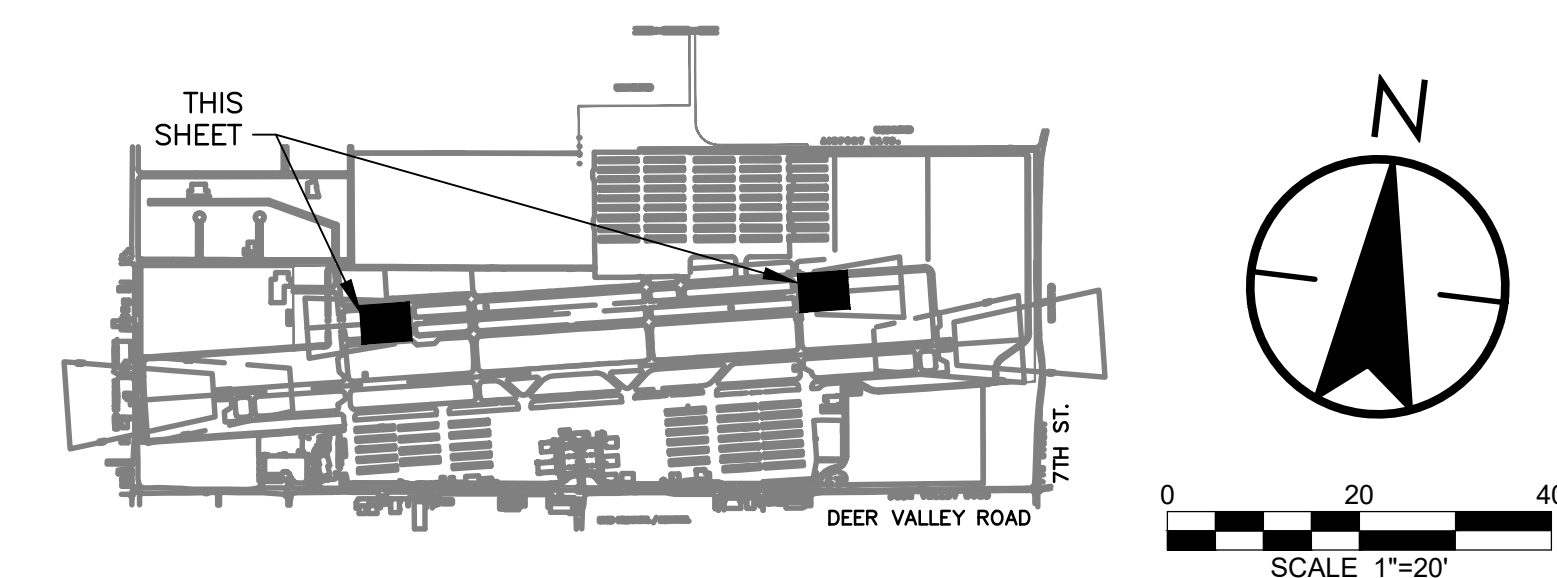
- ① INSTALL NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD/END LIGHT AND ISOLATION TRANSFORMER ON NEW L-867 BASE CAN (8 TOTAL)
- ② INSTALL NEW ELEVATED L-861E QUARTZ RUNWAY THRESHOLD/END LIGHT AND ISOLATION TRANSFORMER ON NEW L-868 BASE CAN WITH CONVERSION PLATE (4 TOTAL)
- ③ 1-2" C SE (120 LF)
- ④ 1-2" C CE (610 LF)
- ⑦ 2-2" C CE (120 LF)
- ⑧ 1/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (645 LF)
- ⑨ 2/C, #8-5KV, TYPE C AIRFIELD LIGHTING CABLE WITH #6 GROUND (550 LF)
- ⑩ NEW 3-#10, #10 GND, REIL MASTER TO SLAVE UNIT POWER AND 2/C TRIGGER CABLES (490 LF)
- ⑪ INSTALL NEW CABLE RACKS AND REMOVE CONCRETE FOR SUMP DRAIN OR DRILL HOLES IN FLOOR OF EXISTING HANDHOLE (4 TOTAL)
- ⑫ INSTALL NEW CIRCUIT ISOLATION BOXES AND CONDUIT IN HANDHOLE FOR RGL CIRCUIT IF REQUIRED (2 TOTAL)
- ⑬ INSTALL 4 1/2" L-867 EXTENSION RING WITH CONCRETE SURROUND ON EXISTING TAXIWAY EDGE LIGHT BASE FOR GRADE ADJUSTMENT. (1 TOTAL)

◇ REFERENCE NOTES ◇

- ① EXISTING RUNWAY EDGE LIGHT
- ② EXISTING TAXIWAY EDGE LIGHT
- ③ EXISTING ELEVATED GUARD LIGHT
- ④ EXISTING AIRFIELD GUIDANCE SIGN
- ⑤ EXISTING HANDHOLE
- ⑥ EXISTING CONDUIT AND CONDUCTOR
- ⑦ APPROXIMATE SPLICE POINT OF CONDUIT AND COUNTERPOISE
- ⑧ EXISTING EXISTING DUCTBANK
- ⑨ EXISTING CONDUIT
- ⑫ EXISTING REIL
- ⑬ MAINTAIN EXISTING RGL BOXES AND CONDUIT IN EXISTING HANDHOLE

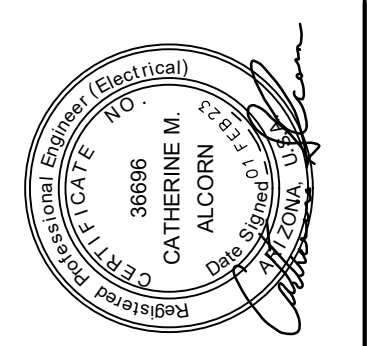
◇ CIRCUIT IDENTIFICATION ◇

- ② RW 7L/25R
- ④ RGL 7L/25R
- ⑤ TAXIWAY A
- ⑥ TAXIWAY B WEST
- ⑦ TAXIWAY B EAST
- ⑩ REIL 7L
- ⑪ REIL 25R



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NO.	REVISIONS / SUBMISSIONS	DATE

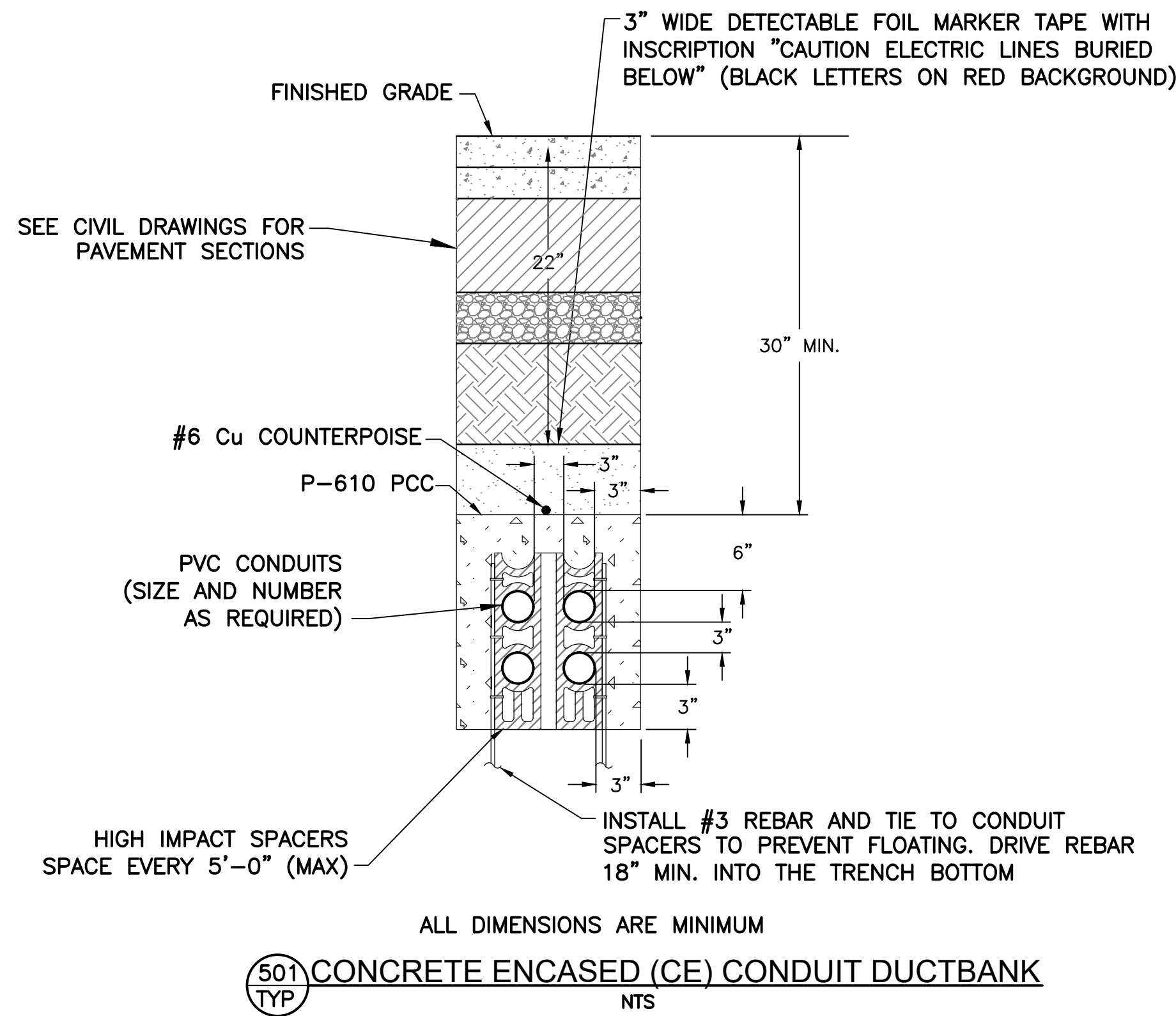
**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: SW  
Drawn by: JBW  
Checked by: CA  
Date: 02/01/23  
Dwg. scale: AS NOTED  
CIP NO.(S): AV31000094

Sheet Overview Title  
**RUNWAY 7L/25R BLAST PADS  
AIRFIELD LIGHTING AND  
ELECTRICAL PLAN**

Sheet Reference Number:  
**E202**  
Sheet 31 of 38

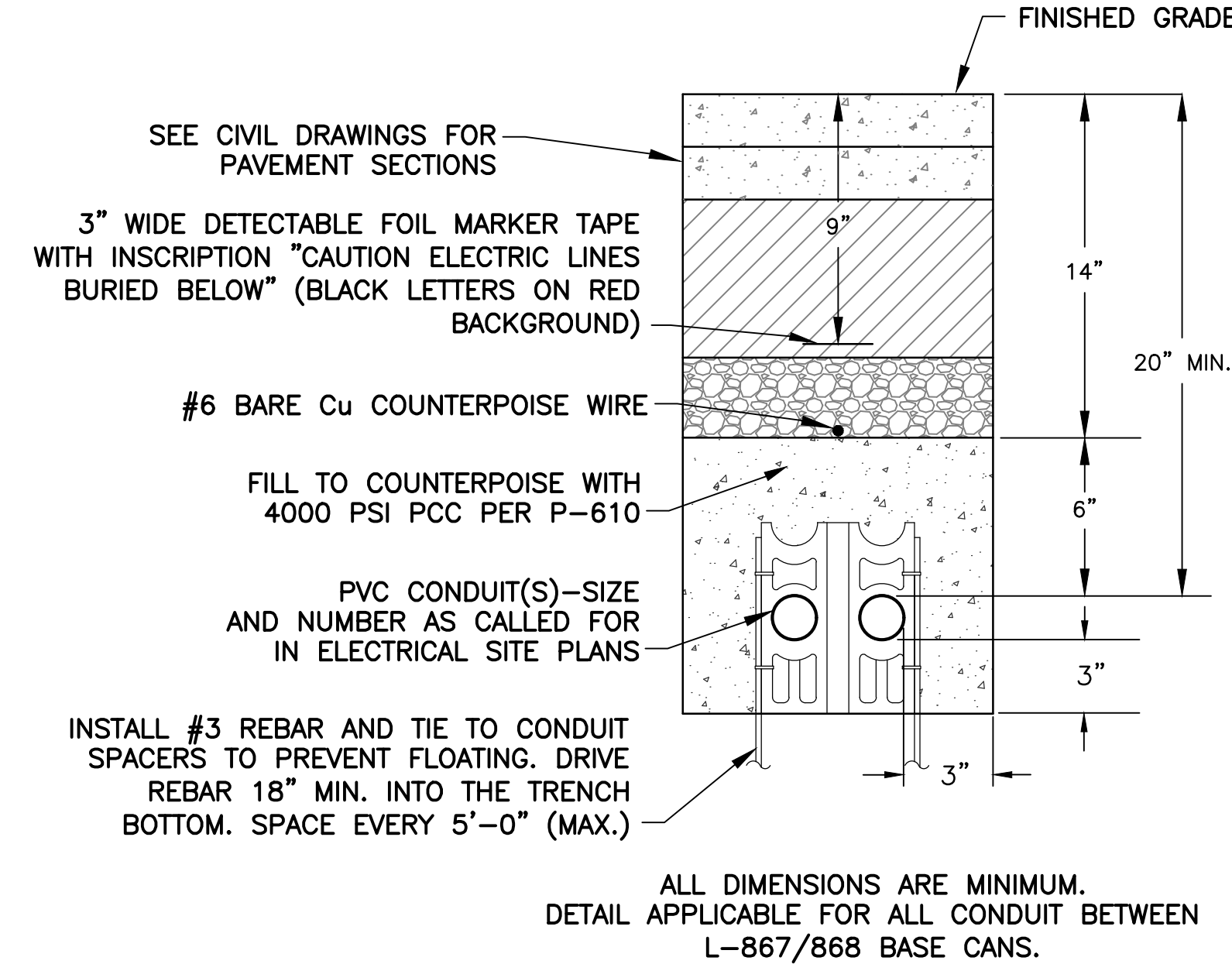
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**501**  
TYP  
CONCRETE ENCASED (CE) CONDUIT DUCTBANK  
NTS

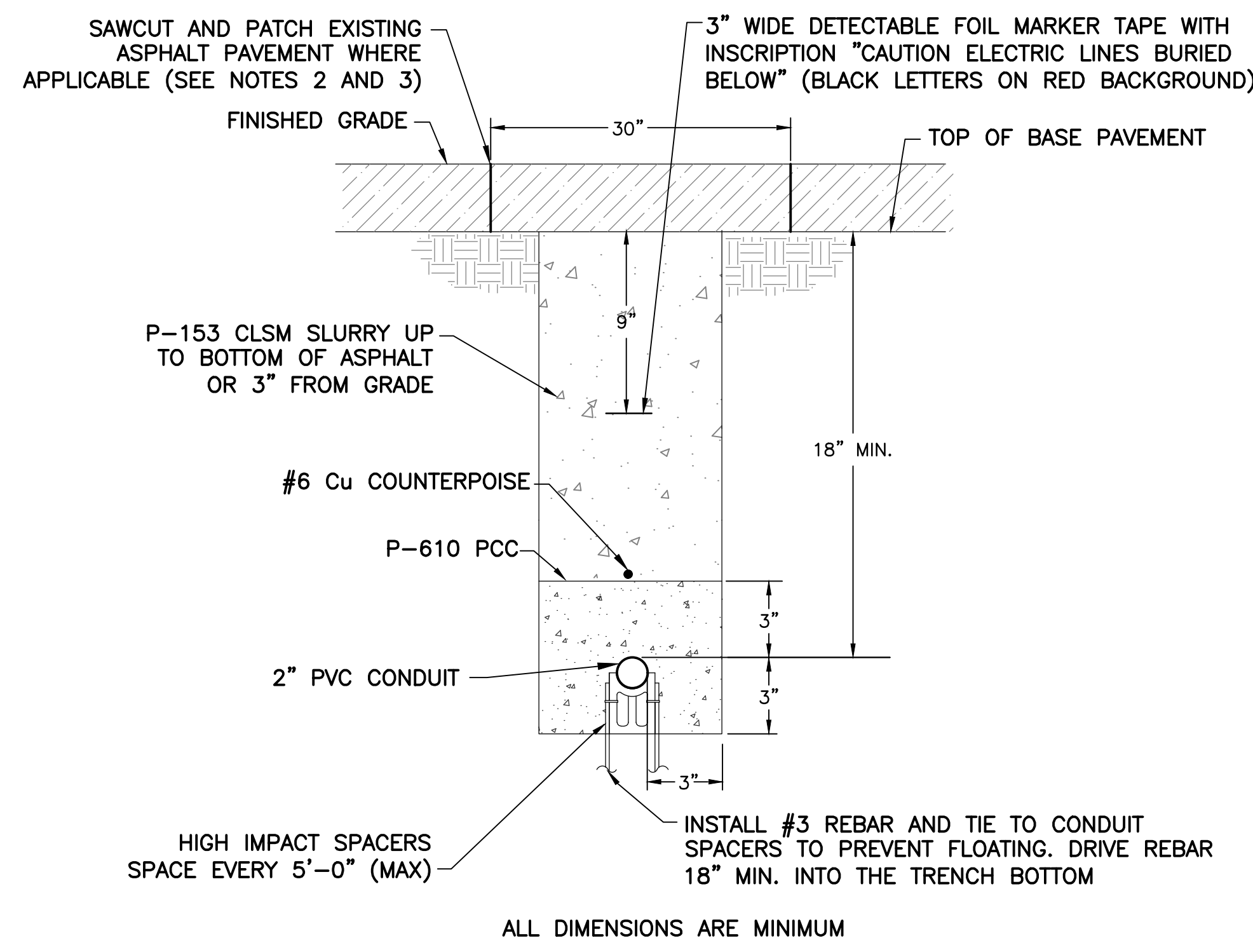
**GENERAL NOTES FOR CONDUIT INSTALLATION**

1. PROVIDE PULL STRING IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES.
2. P-610 CONCRETE ENCASE UNDER PAVEMENT AND AS OTHERWISE INDICATED ON PLANS.
3. INSTALL A #6 BARE COPPER (Cu) COUNTERPOISE IN 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.
  - 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 TWO (2) CONDUITS. IF MORE CONDUITS ARE NEEDED, THE WIDTH OF THE TRENCH IS TO BE INCREASED.
7. ADJUST DEPTH TO 18-24\" TOTAL FOR CONDUIT INSTALLATION BETWEEN OR INTO L-867/868 BASE CAN. INSTALL COUNTERPOISE AT 12\" BELOW GRADE FOR THESE SECTIONS



ALL DIMENSIONS ARE MINIMUM.  
DETAIL APPLICABLE FOR ALL CONDUIT BETWEEN L-867/868 BASE CANS.

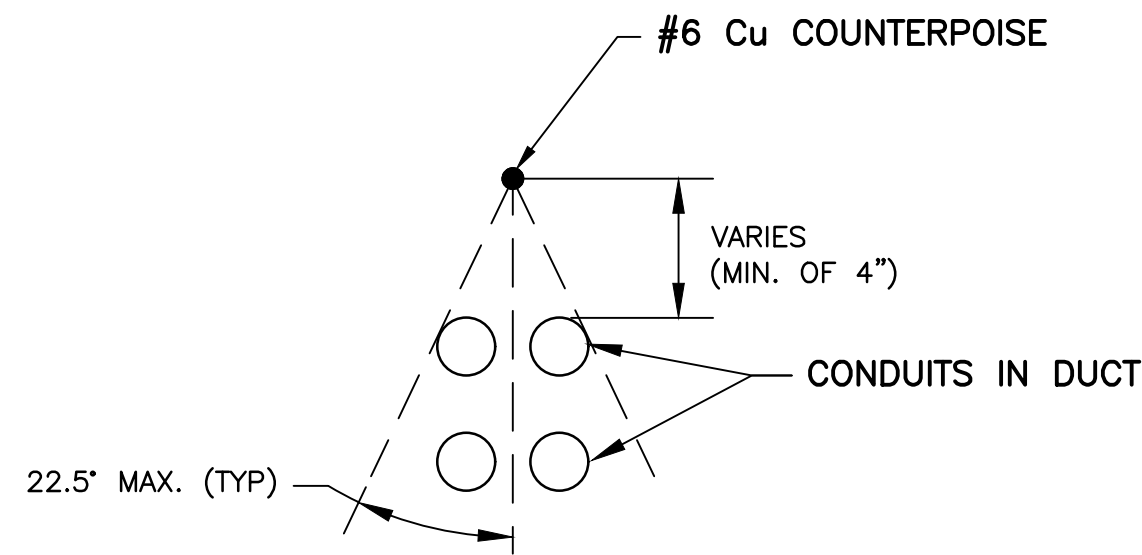
**505**  
TYP  
CONDUIT DETAIL  
NTS



**502**  
TYP  
RETROFIT CONCRETE ENCASED (CE) CONDUIT  
NTS

**NOTES**

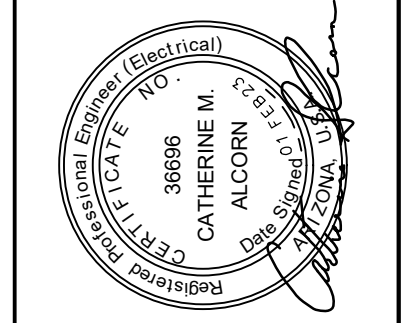
1. COORDINATE WITH GENERAL CONTRACTOR AND CIVIL PLANS FOR SAW-CUTTING SOUTH RUNWAY BLAST PADS TO REMOVE AND INSTALL NEW RUNWAY END LIGHT CANS AND CONDUIT.
2. ~~SAW CUT AND PATCH REQUIRED IF EXISTING BLAST PAD PAVEMENT GETS SEAL COAT.~~
2. ~~IF SOUTH RUNWAY BLAST PADS GET MILL AND OVERLAY,~~ INSTALL NEW CANS AND CONDUIT PRIOR TO SOUTH RUNWAY OVERLAY TO PREVENT PATCHING NEW PAVEMENT.



**506**  
TYP  
COUNTERPOISE COVERAGE  
NTS

**NOTE**

1. ADJUST COUNTERPOISE OFFSET ABOVE CONDUIT/DUCT (MIN. OF 4\") TO PROVIDE A CONE OF PROTECTION (MAX. OF 22.5' EACH SIDE OF VERTICAL) ABOVE ALL CONDUITS.



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NO.	REVISIONS / SUBMISSIONS	DATE
1	REMOVE SEAL COAT ALTERNATIVE	5/1/23

**PHX DVT CYR**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHOENIX DEER VALLEY AIRPORT  
RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
702 W. DEER VALLEY RD.,  
PHOENIX, ARIZONA 85027

Designed by: SW	JBW
Drawn by: CA	CA
Checked by: AS	AS
Date:	02/01/23
Dwg. scale:	AS NOTED
CP NO.(S):	AV31000094

Sheet Overview Title  
**ELECTRICAL DETAILS - CONDUIT DUCTBANKS AND DUCT MARKER**

Sheet Reference Number:  
**E301**  
Sheet 32 of 38

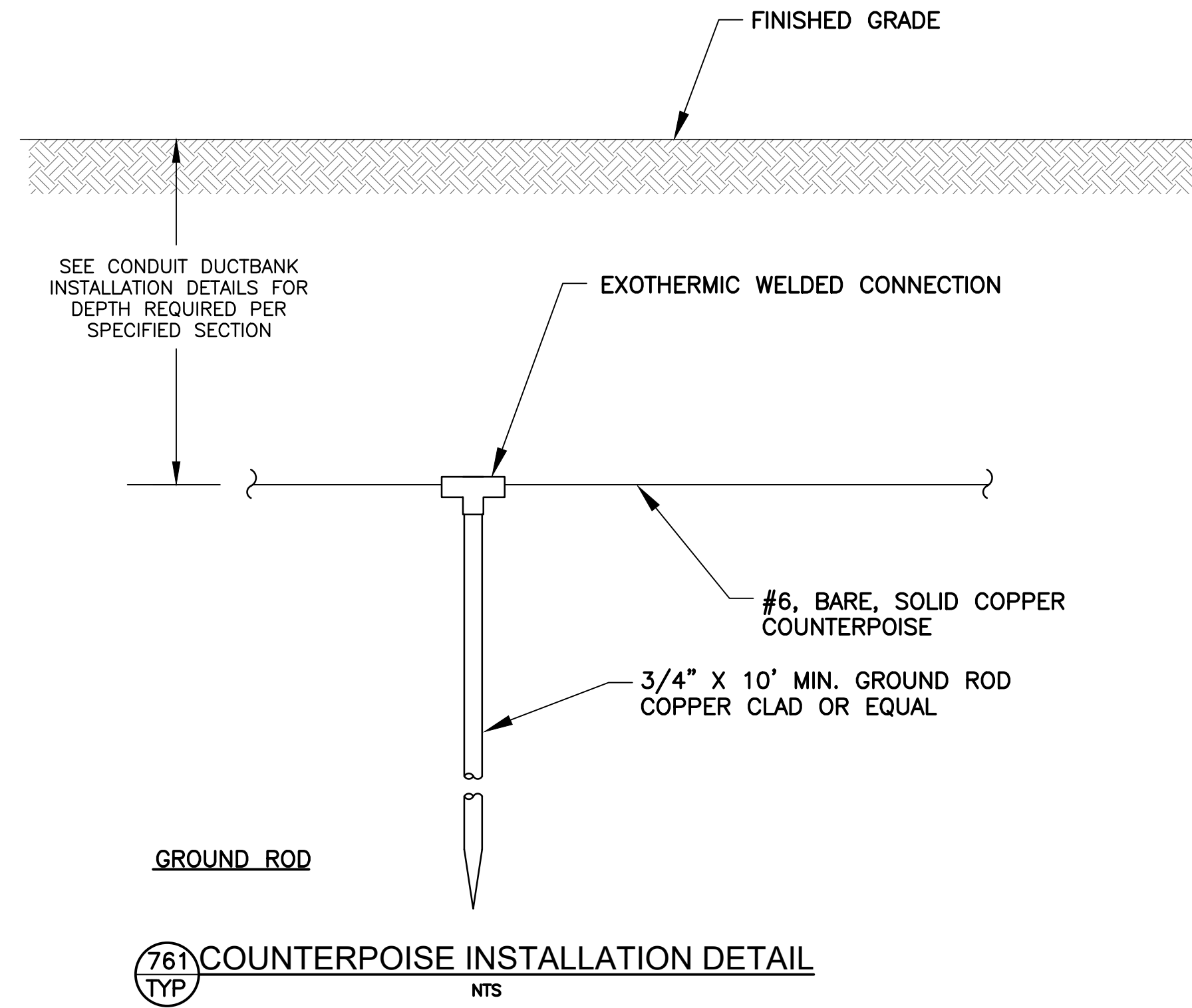


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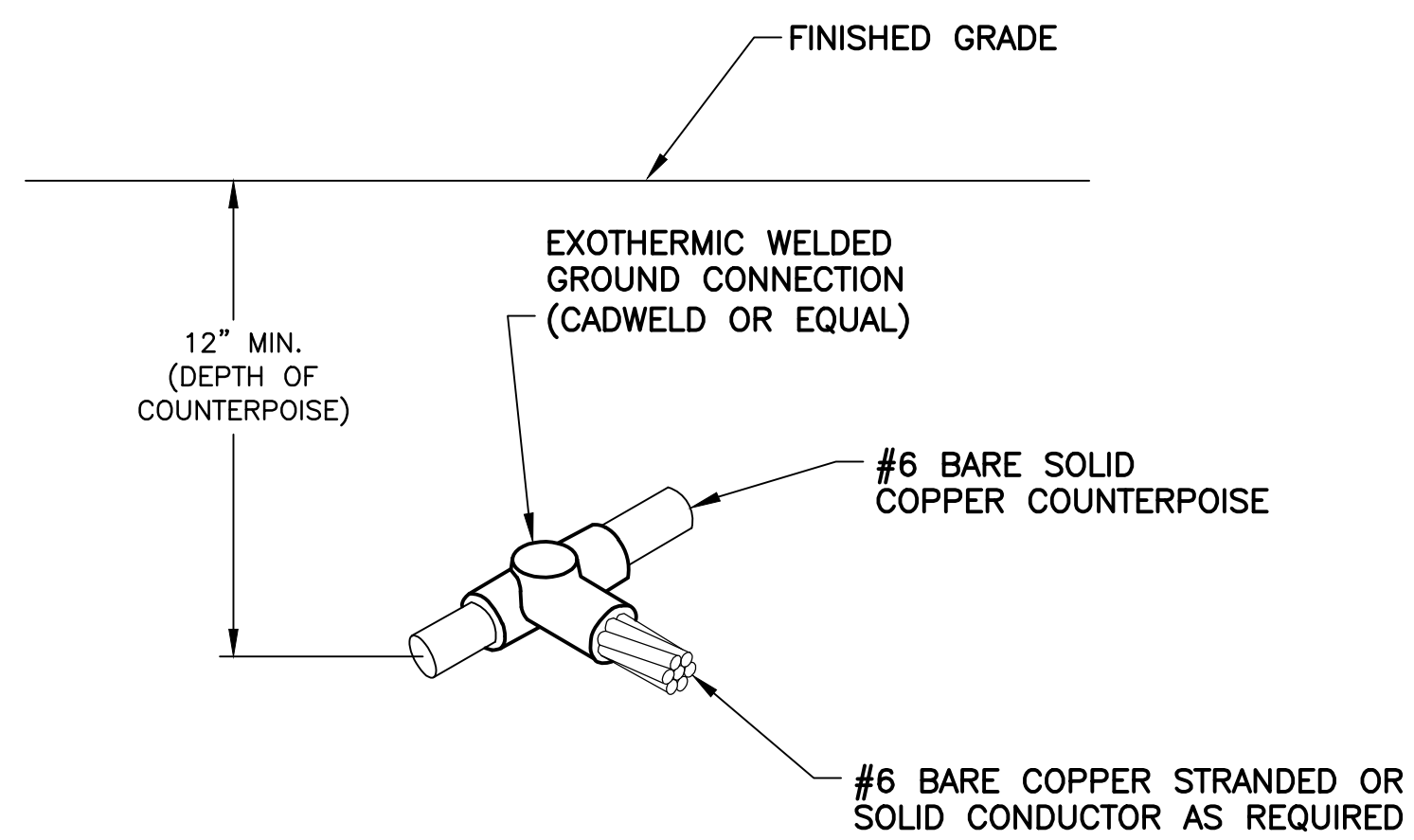
G:\PROJECTS\21000\21042 DVT Blast Pods\CAD\CAD SHEETS\21042 E302 - COUNTERPOISE AND GROUNDING.dwg  
10.18.2022



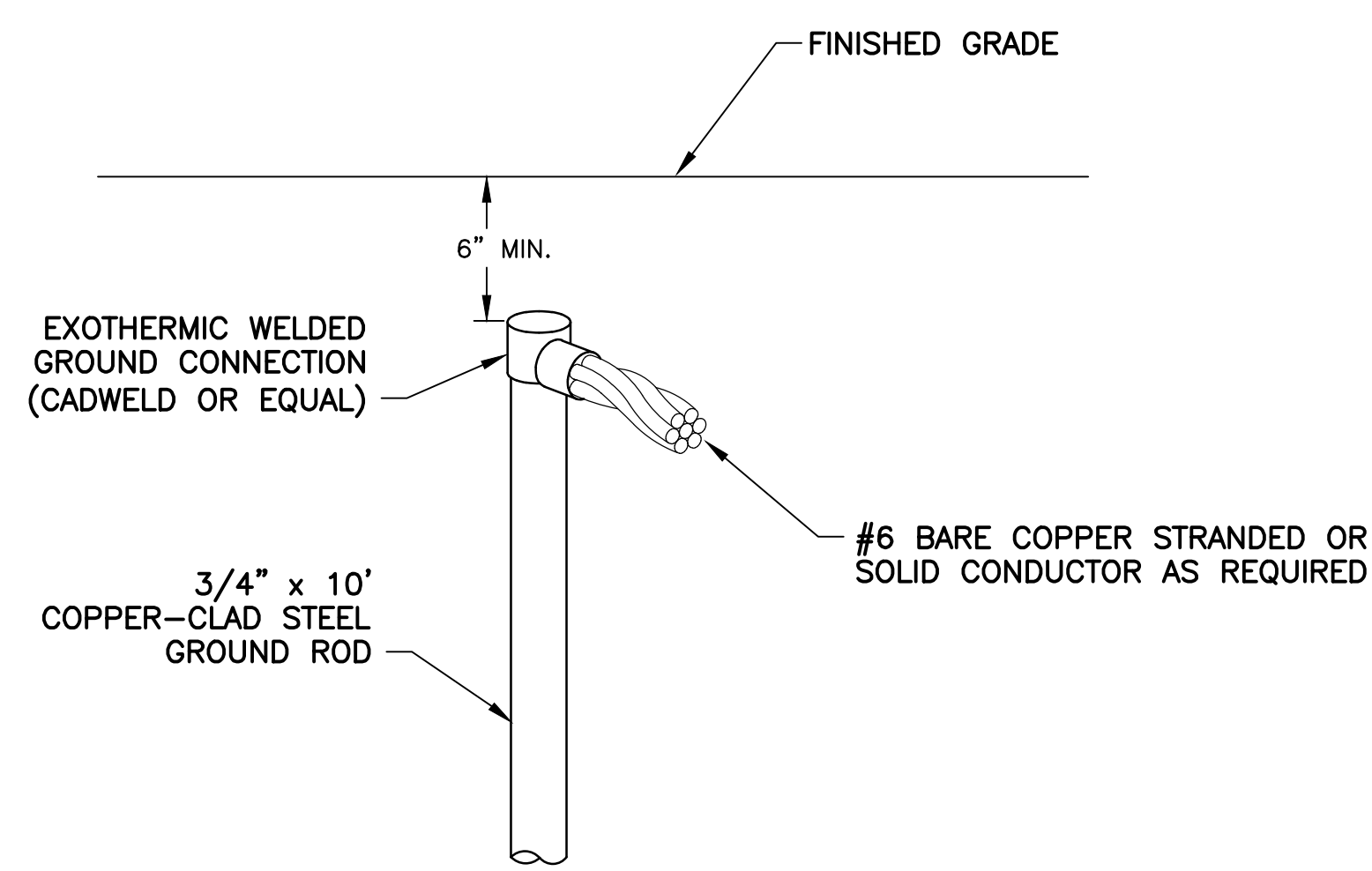
**761**  
TYP COUNTERPOISE INSTALLATION DETAIL  
NTS

**NOTES**

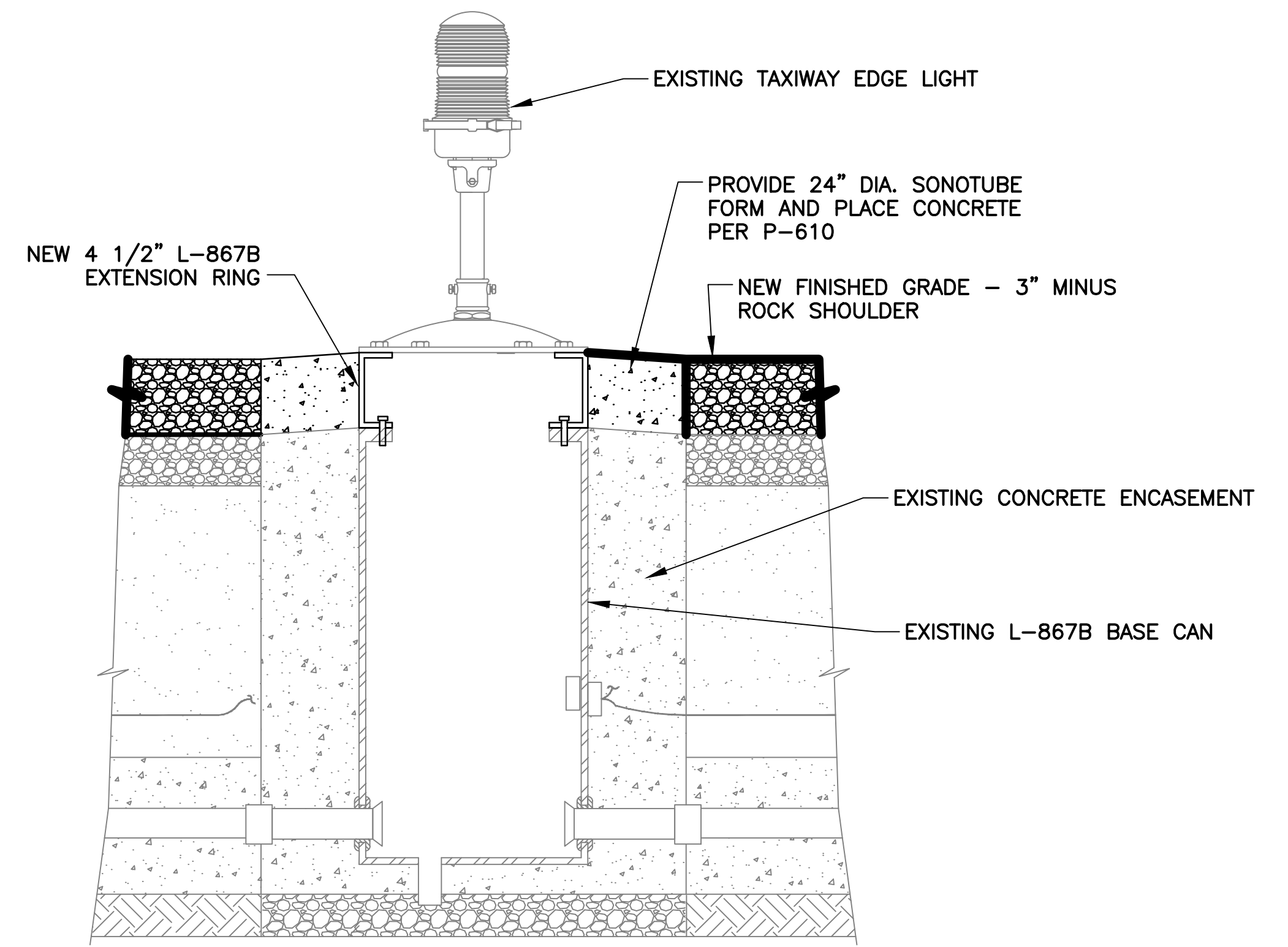
1. COST OF GROUND RODS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.
2. WHERE POSSIBLE, NEW COUNTERPOISE SYSTEM SHALL BE CONNECTED TO ANY EXISTING COUNTERPOISE SYSTEM ENCOUNTERED.
3. GROUNDING ELECTRODES INSTALLED AS PART OF THE COUNTERPOISE SYSTEM SHALL BE SPACED AT DISTANCES NO GREATER THAN 500 FT. (MAX).
4. REFER TO DETAILS 501 AND 505, SHEET E301, FOR CONCRETE ENCASED CONDUITS.
5. MAINTAIN SIX INCH (MINIMUM) VERTICAL SEPARATION BETWEEN COUNTERPOISE AND TYPE "C" CABLE IN 2" CONDUIT.
6. PROVIDE GROUND ROD FOR EXOTHERMICALLY WELDING TO COUNTERPOISE AT END OF SINGLE CONDUITS TERMINATING AT FIXTURE OR SIGN BASES IF DISTANCE IS GREATER THAN 100' FROM HANDHOLE OR LAST INSTALLED COUNTERPOISE ROD.



**766**  
TYP COUNTERPOISE TO CABLE CONNECTION DETAIL  
NTS



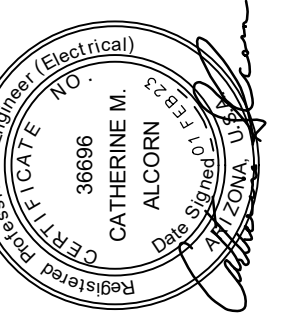
**767**  
TYP CABLE TO GROUND ROD CONNECTION DETAIL  
NTS



**902**  
TYP EXISTING EDGE LIGHT BASE ADJUSTMENT DETAIL  
NTS

**NOTES**

1. FOR EDGE LIGHT ADJUSTMENT, INSTALL 4 1/2" EXTENSION RING.
2. PROVIDE ADDITIONAL GASKET BETWEEN EXTENSION RING AND L-867 BASE CAN.



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NO.	REVISIONS / SUBMISSIONS	DATE

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RUNWAYS 7L/25R AND 7R/25L BLAST PADS  
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Sheet Overview Title  
**ELECTRICAL DETAILS - COUNTERPOISE AND GROUNDING**

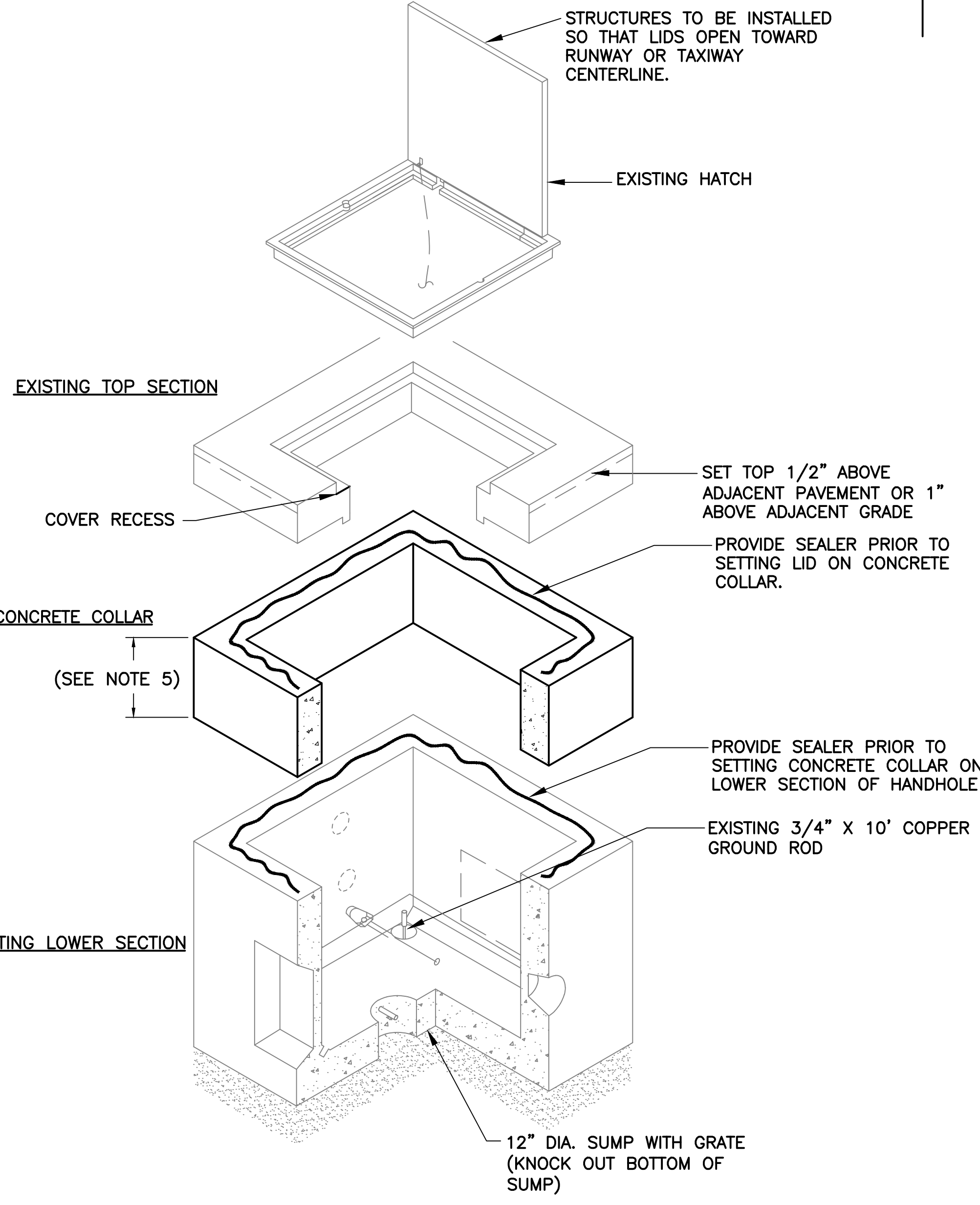
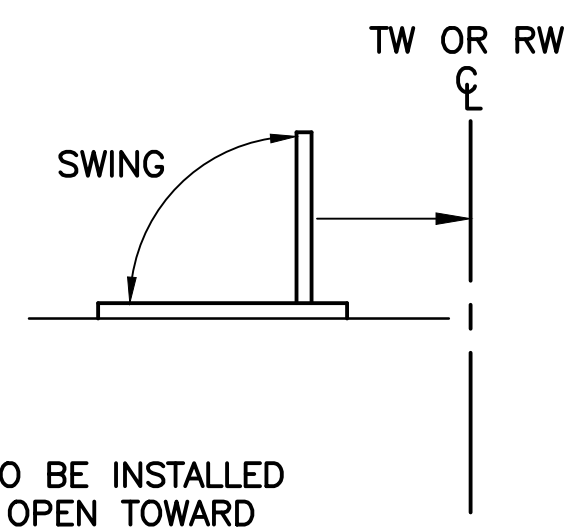
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**E302**  
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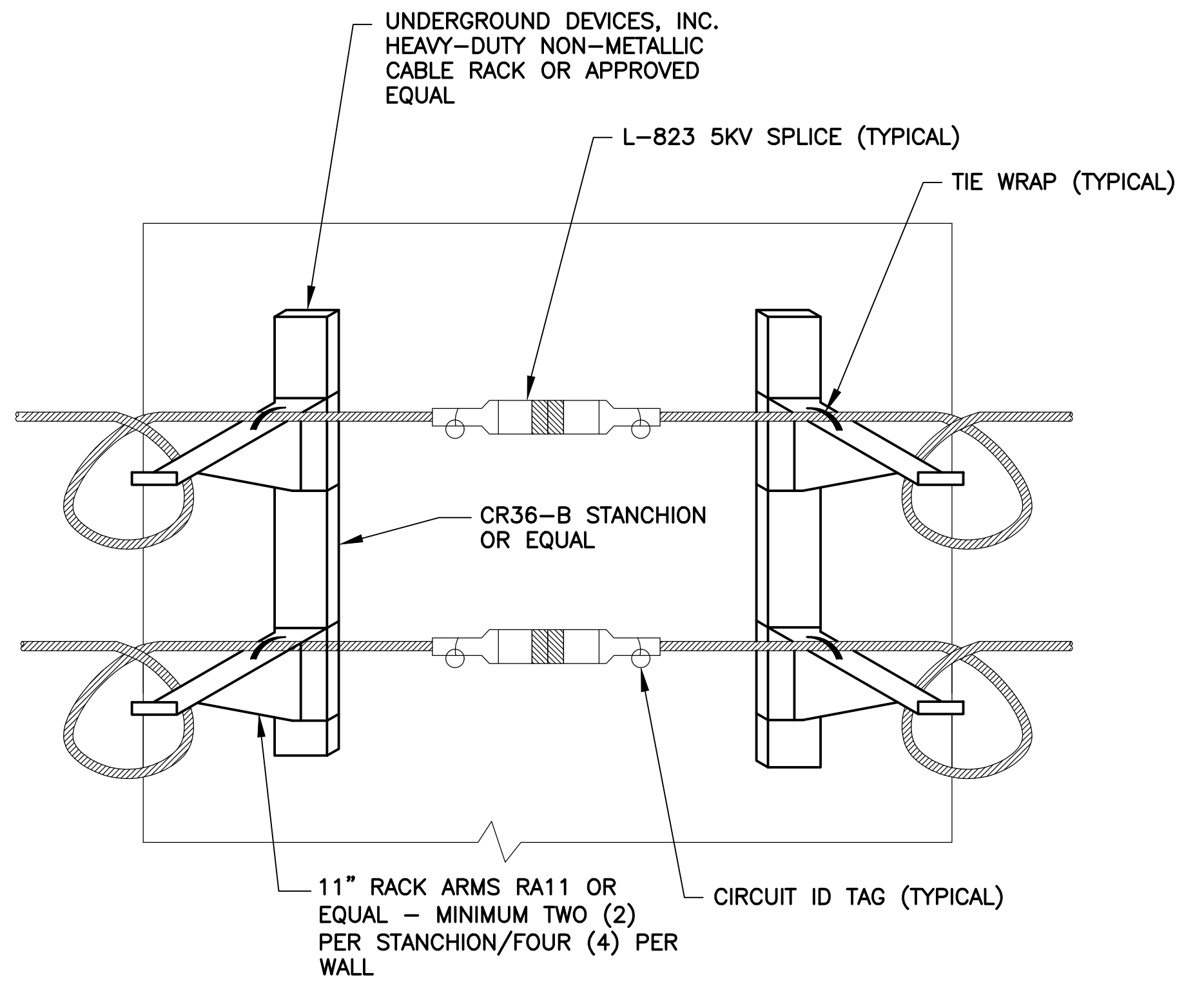
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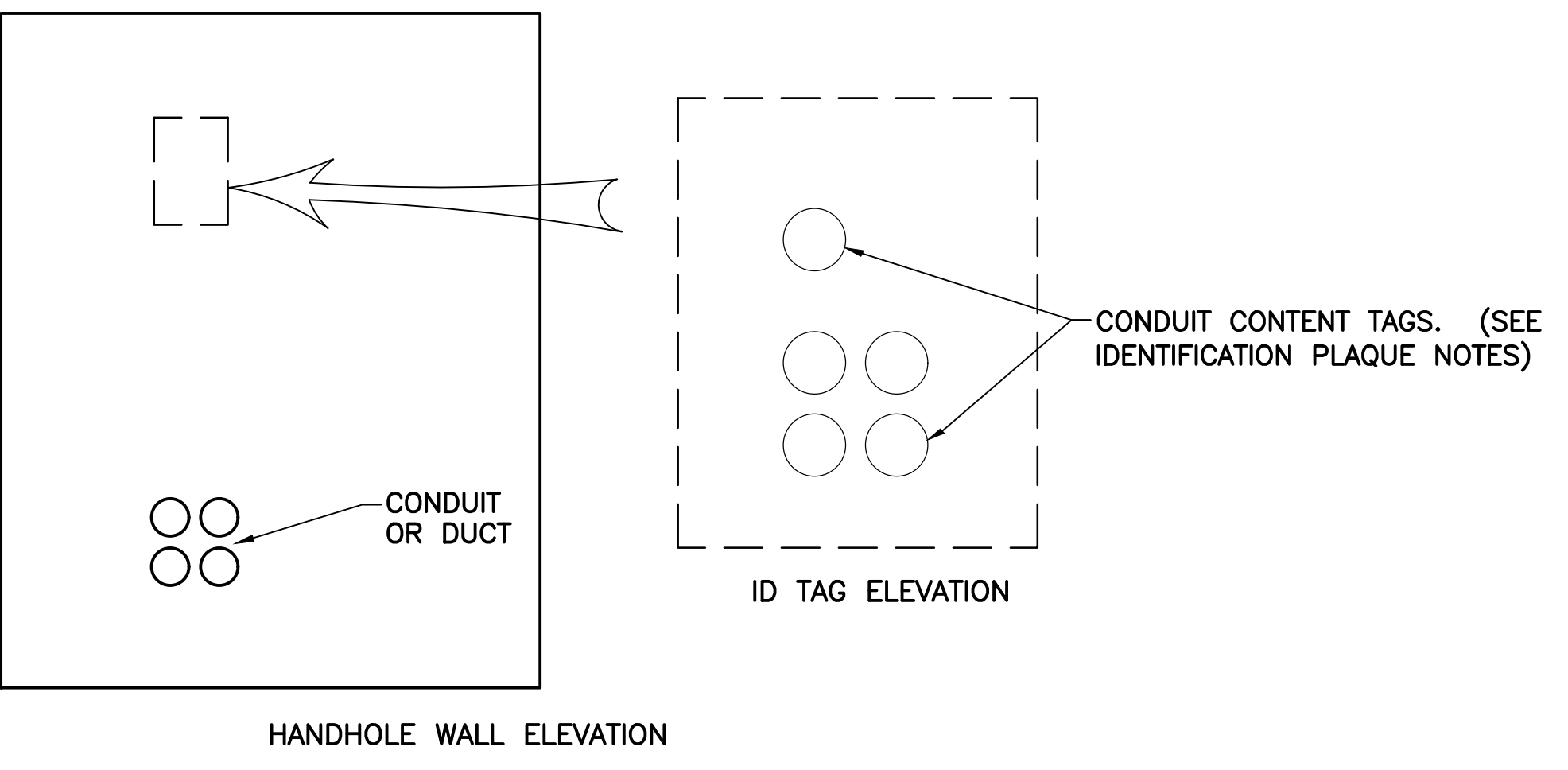
**960**  
TYP  
EXISTING CONCRETE HANDHOLE ADJUSTMENT DETAIL  
NTS

**GENERAL HANDHOLE ADJUSTMENT NOTES**

1. ALL CABLE THROUGH HANDHOLE SHALL HAVE SUFFICIENT SLACK SO CABLE AND CONNECTOR CAN BE BROUGHT TO SURFACE FOR SPLICING, PROVIDE MINIMUM 15 FEET OF SLACK FOR EACH CABLE ENTERING HANDHOLE.
2. EACH CABLE SHALL BE IDENTIFIED WITH CIRCUIT TAPE AND WIRE TAGS GIVING CIRCUIT IDENTIFICATION.
3. RACK AND SECURE ALL CABLES.
4. TAG LIGHTING CIRCUIT CABLES IN ALL CONCRETE STRUCTURES (TWO REQUIRED PER CABLE).
5. CONTRACTOR TO REMOVE TOP AND MEASURE EXISTING STRUCTURE TO PROVIDE DIMENSIONS FOR PRECAST CONCRETE COLLAR TO RAISE LID.
6. COVER SHALL BE FLUSH WITH ASPHALT OR PAVEMENT 1" MAXIMUM ABOVE FINISHED GRADE. AREA SURROUNDING HANDHOLE SHALL BE GRADED 10' IN ALL DIRECTIONS, SUCH TO PREVENT WATER AND DIRT ACCUMULATION ACROSS THE TOP OF THE COVER AND ALLOW WATER TO DRAIN AWAY FROM THE HANDHOLE - INCIDENTAL (NPI).



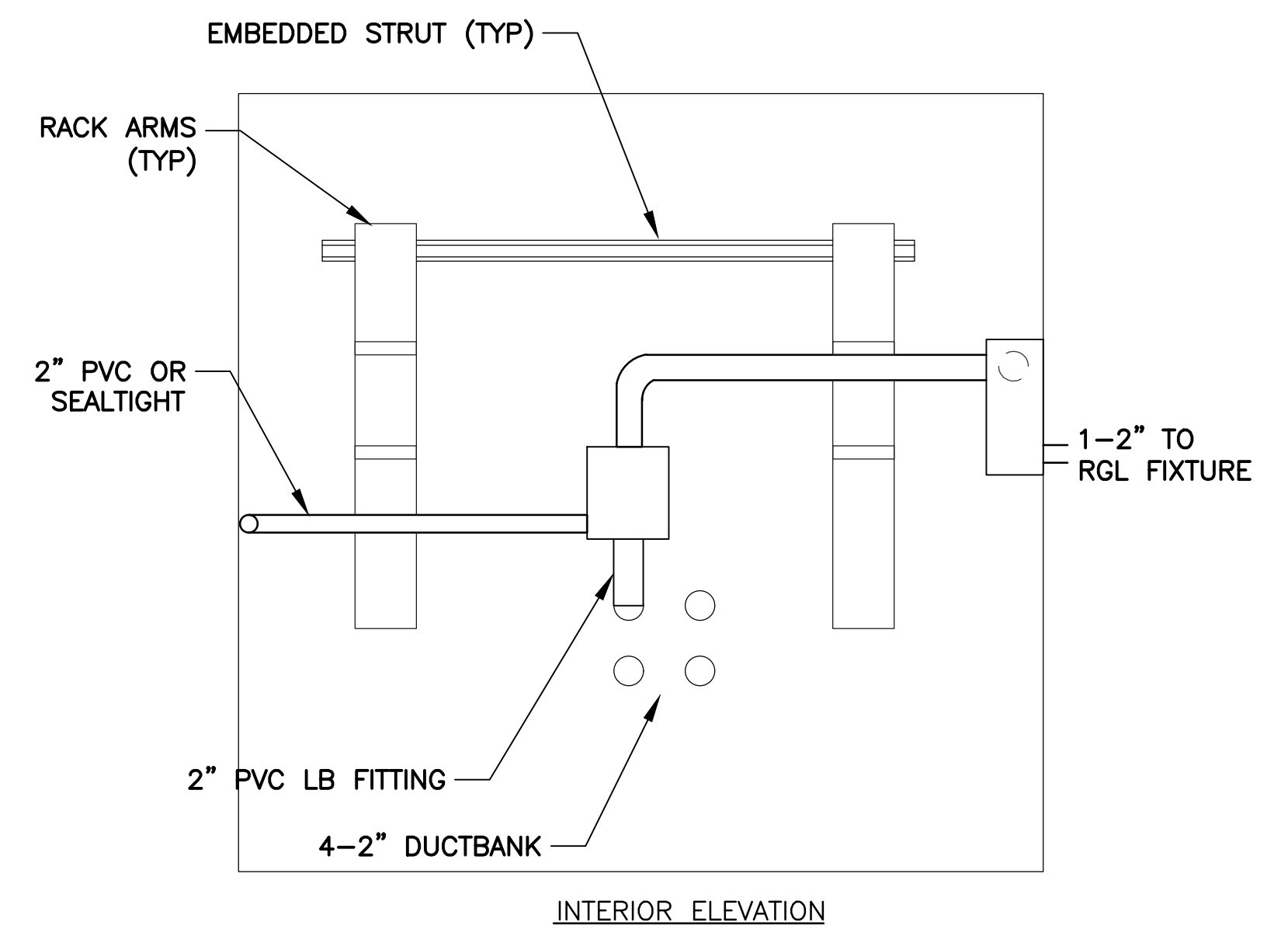
**A**  
CABLE RACKING DETAIL  
NTS



**B**  
CABLE ROUTING IDENTIFICATION TAG DETAIL  
NTS

**IDENTIFICATION PLAQUE NOTES:**

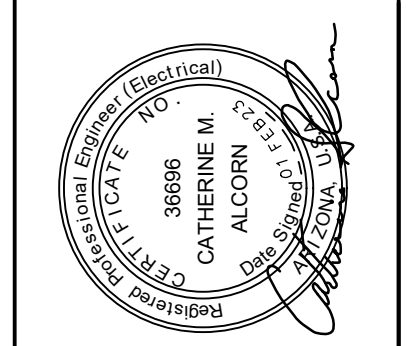
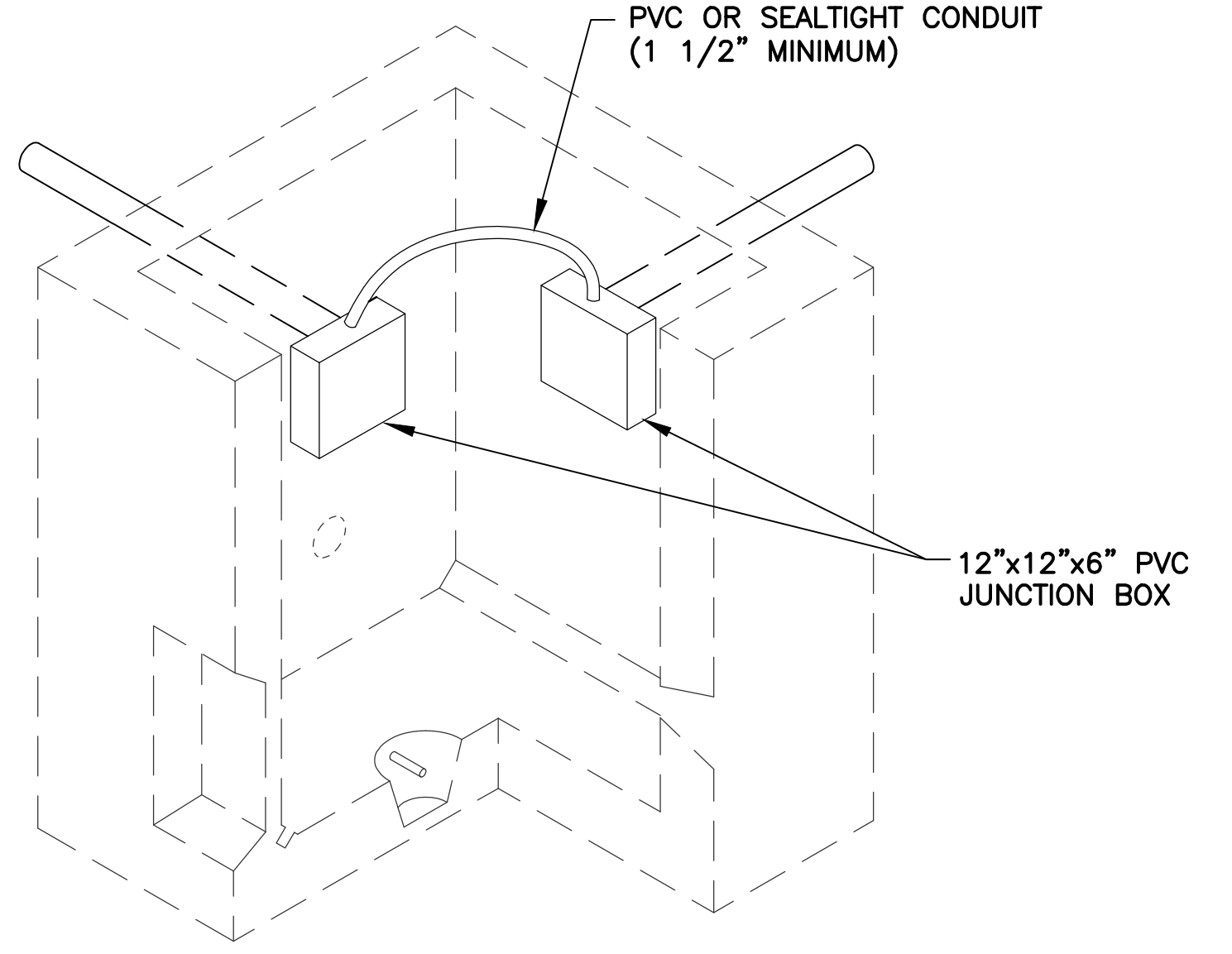
1. AFFIX ENGRAVED PHENOLIC TAGS TO THE WALL WITH SILICONE SEALANT ABOVE THE DUCT OR CONDUIT ENTRY IN A WAY THAT MIMICS THE ARRAY. WIRE BRUSH CONCRETE WALL TO ASSURE ADHESION.
2. THE TAGS SHALL BE APPROX 1 1/2" DIA. AND SHALL HAVE MINIMUM 1/4" LETTERING.



**571**  
TYP  
RGL CIRCUIT ISOLATION SYSTEM DETAIL  
NTS

**NOTES:**

1. RUNWAY GUARD LIGHT CIRCUITS SHALL BE CONTAINED IN PVC JUNCTION BOXES OR CONDUIT BODIES CONNECTED WITH 2" PVC CONDUIT FOR SEALTIGHT CONDUIT BETWEEN RGL CIRCUIT CONDUIT ENTRIES WITHIN ALL MANHOLES/HANDHOLES.
2. INSTALL NEW CONDUITS WITHIN HANDHOLES AGAINST WALLS AND ROUTE AS REQUIRED TO AVOID RACK ARMS.
3. CONNECT NEW RGL BYPASS ROUTE CONDUIT TO EXISTING PVC JUNCTION BOXES AT EXISTING HANDHOLES.



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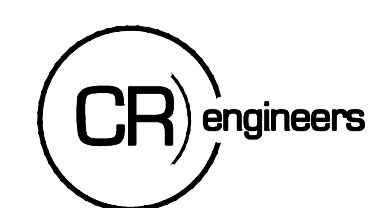
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Dwg scale: AS NOTED	CP NO.(S): AV31000094

Sheet Overview Title  
**ELECTRICAL DETAILS - RGL ISOLATION AND HANDHOLE ADJUSTMENT**

Sheet Reference Number:  
**E303**  
Sheet 34 of 38

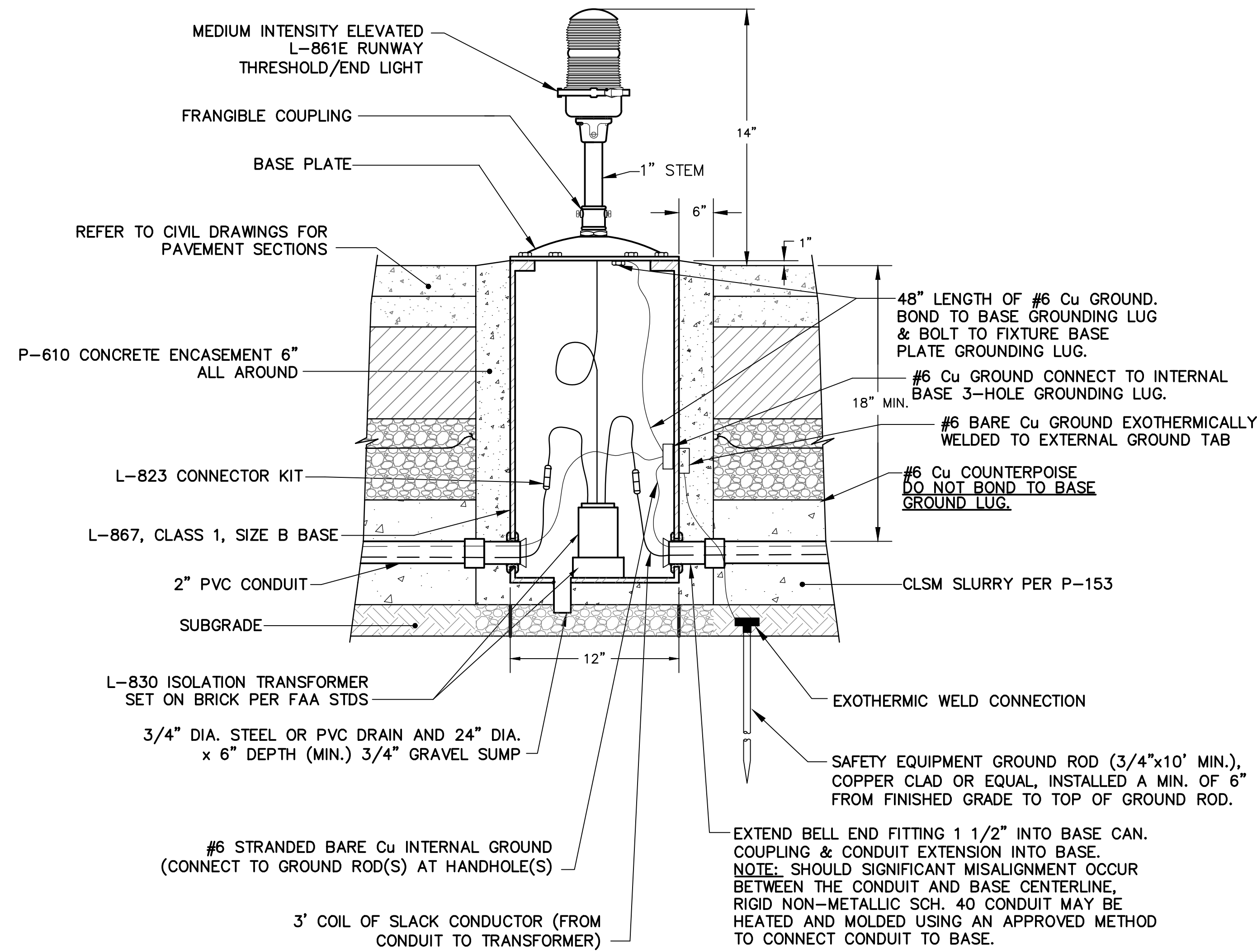


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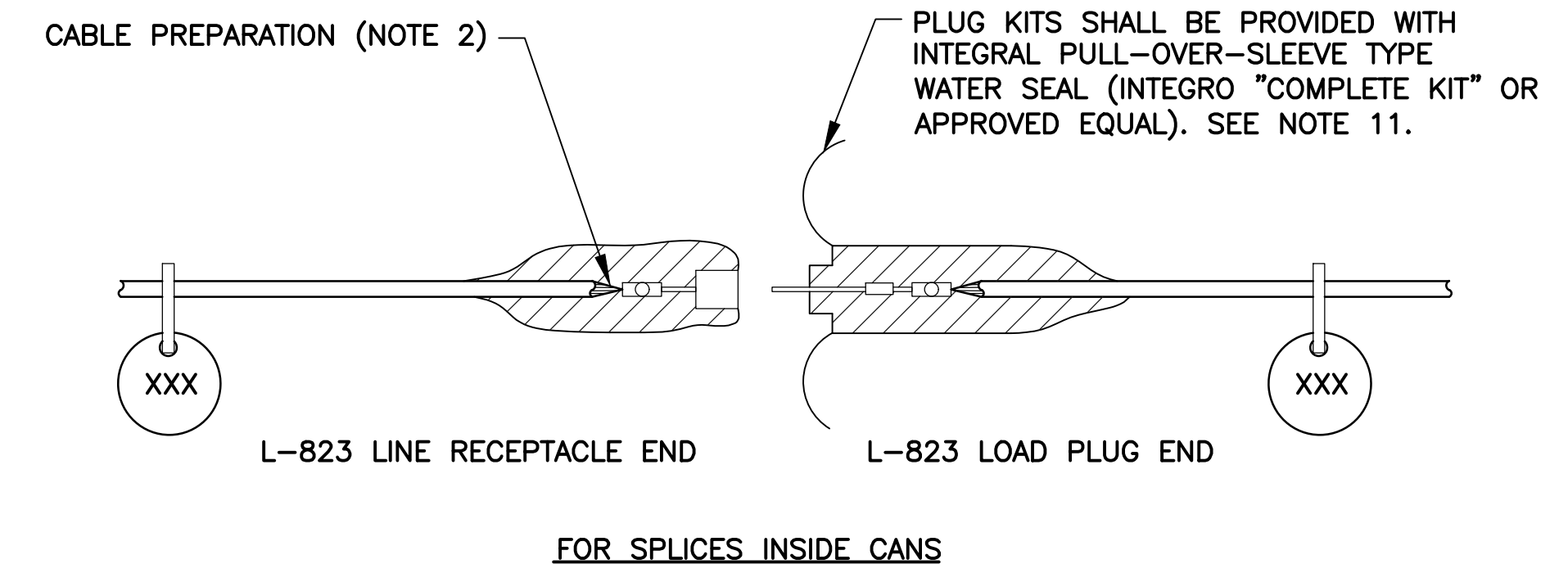
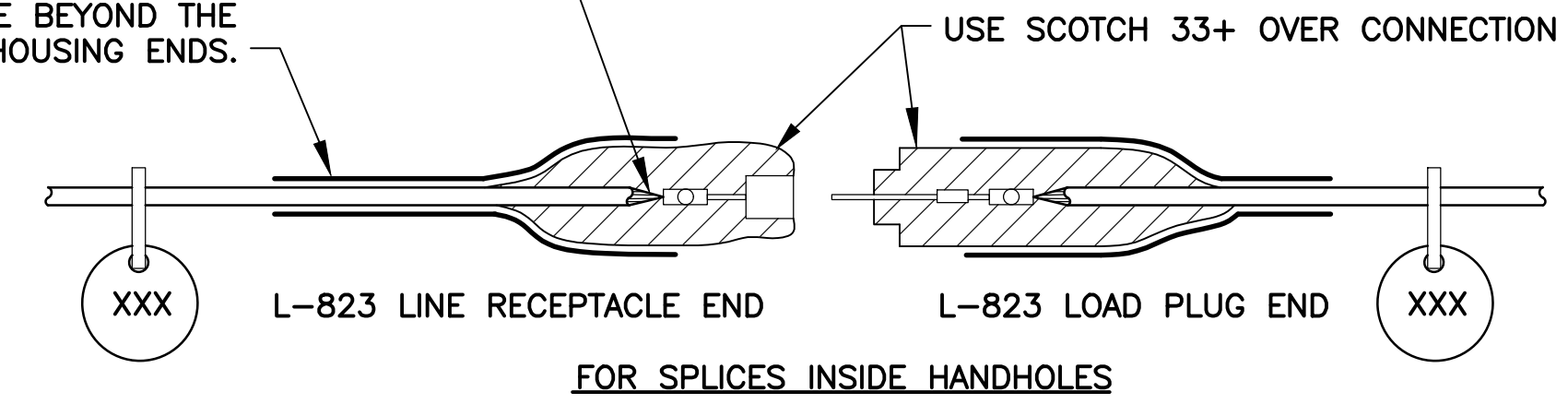
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10.19.2022



**891**  
TYP ELEVATED RUNWAY THRESHOLD/END LIGHT DETAIL  
NTS

**NOTE**  
1. SECTIONAL LIGHT BASES RECOMMENDED FOR INSTALLATION UNDER NEW PAVEMENT.

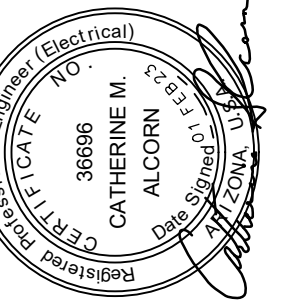
CABLE PREPARATION (NOTE 2)  
THE SPLICE KIT PIN AND RECEPTACLE HOUSING ENDS SHALL BE COVERED WITH AN 8" MIN. SECTION OF APPROVED HEAT-SHRINKABLE TUBING WITH INTERNAL ADHESIVE BEYOND THE PIN AND RECEPTACLE HOUSING ENDS.



**NOTES**

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 & 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 PHASE 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 PHASE TAPE FOR SIGNS, BLUE ONLY PHASE TAPE FOR TAXIWAY EDGE LIGHTS, FOR FASTER IDENTIFICATION AND MATCH EXISTING MANHOLE LAYOUTS.
10. PRIMARY CONNECTOR KITS TYPES SHOWN ARE PER COP AIRFIELD MAINTENANCE STANDARDS.
11. IF AMERACE "SUPER" KITS ARE USED, COP REQUIRES REMOVAL OF ALL SLIP FIT PLASTIC SLEEVES USED TO SEAL KIT ENDS TO CABLE FROM THE L-824 CABLE.

**925**  
TYP TYPICAL 5KV CABLE SPLICE  
NTS



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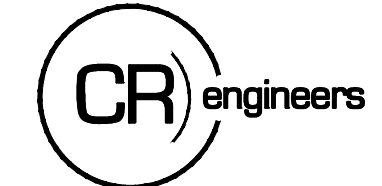
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Sheet Overview Title  
**ELECTRICAL DETAILS - ELEVATED RUNWAY THRESHOLD/END LIGHT AND 5KV CABLE SPLICE**

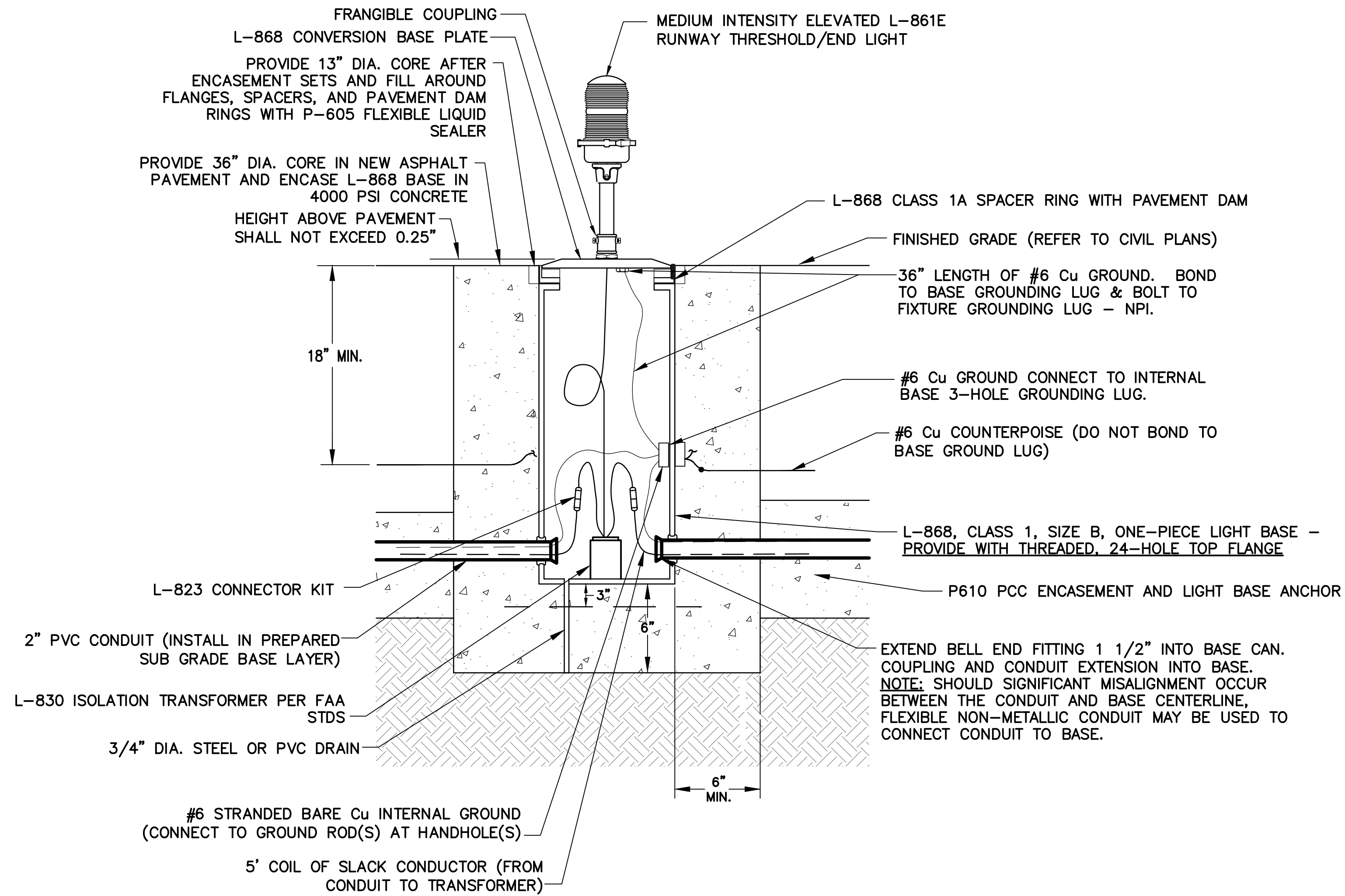
Sheet Reference Number:  
**E304**  
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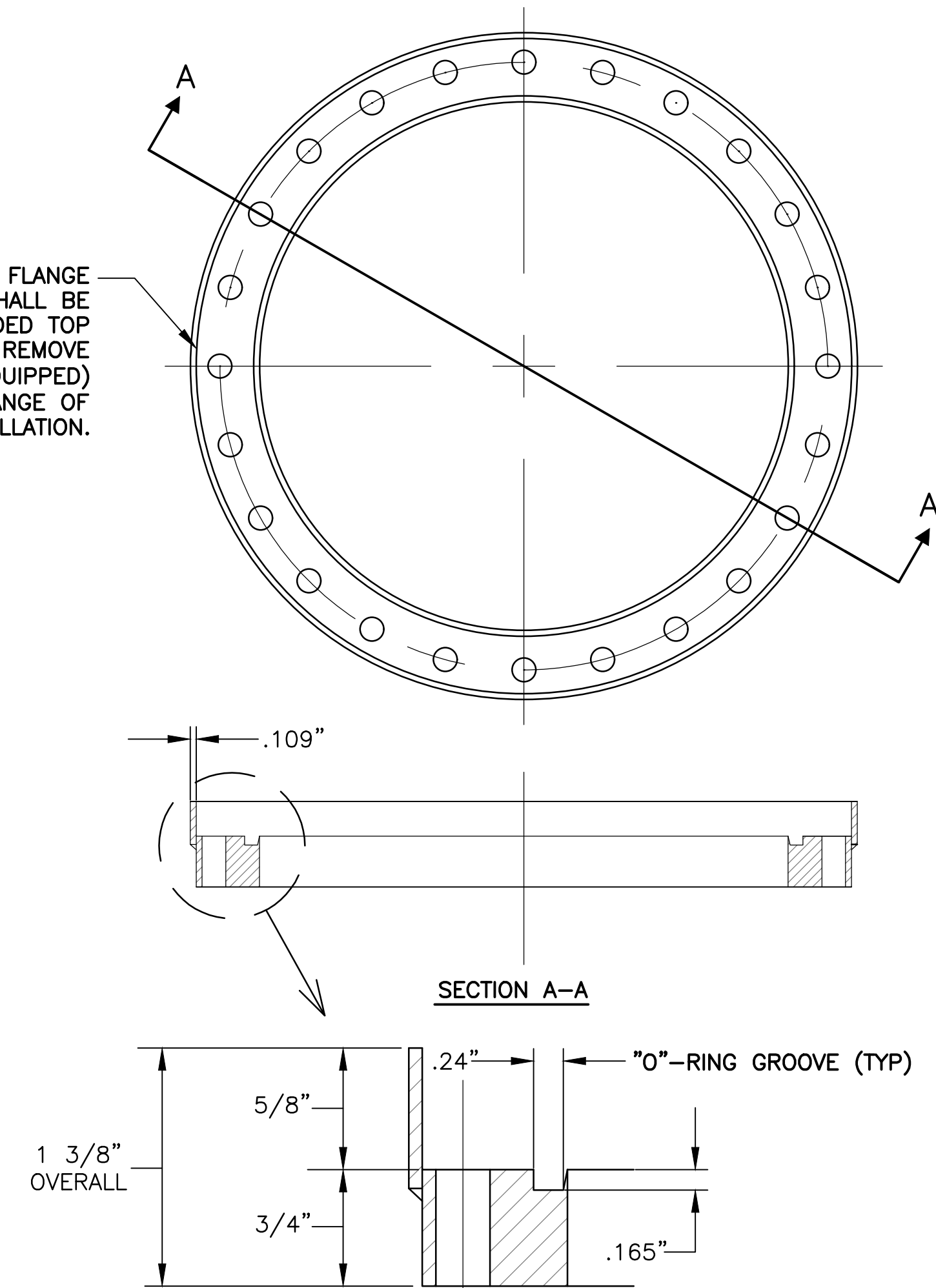


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10.25.2022



**893** ELEVATED LIGHT FIXTURE ON L-868 BASE INSTALLATION DETAIL  
NTS

PROVIDE 24-HOLE UN-THREADED FLANGE RING. L-868B BASES SHALL BE FURNISHED WITH 24-HOLE THREADED TOP FLANGES. CONTRACTOR SHALL REMOVE ANY THREADED PLUGS (IF EQUIPPED) FROM BOLT HOLES IN TOP FLANGE OF L-868 BASES BEFORE INSTALLATION.

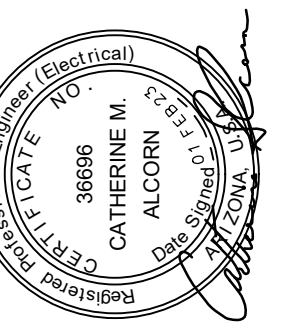


**NOTE**  
1. 5/8" TALL PAVEMENT DAM FOR ELEVATED FIXTURE INSTALLED WITH L-868 CONVERSION RING.

**A** FLANGE RING WITH PAVEMENT DAM  
NTS

**NOTES**

1. THE BASIC EQUIPMENT TO BE USED ON ALL BASE CANS INSTALLED IN FULL STRENGTH ASPHALT PAVEMENT IS: (1) 3/4" FLANGE RING WITH (1) 5/8" TALL PAVEMENT DAM 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) SPACE RINGS UNDER EACH FLANGE RING WITH PAVEMENT DAM.
3. REFER TO CIVIL PLANS FOR NEW PAVEMENT AND BASE SECTIONS.



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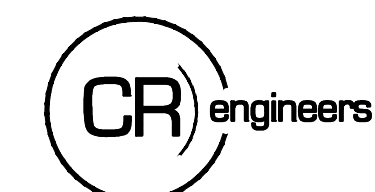
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Sheet Overview Title  
**ELECTRICAL DETAILS -  
ELEVATED RUNWAY THRESHOLD/END  
LIGHT ON L-868 BASE**

Sheet Reference Number:  
**E305**

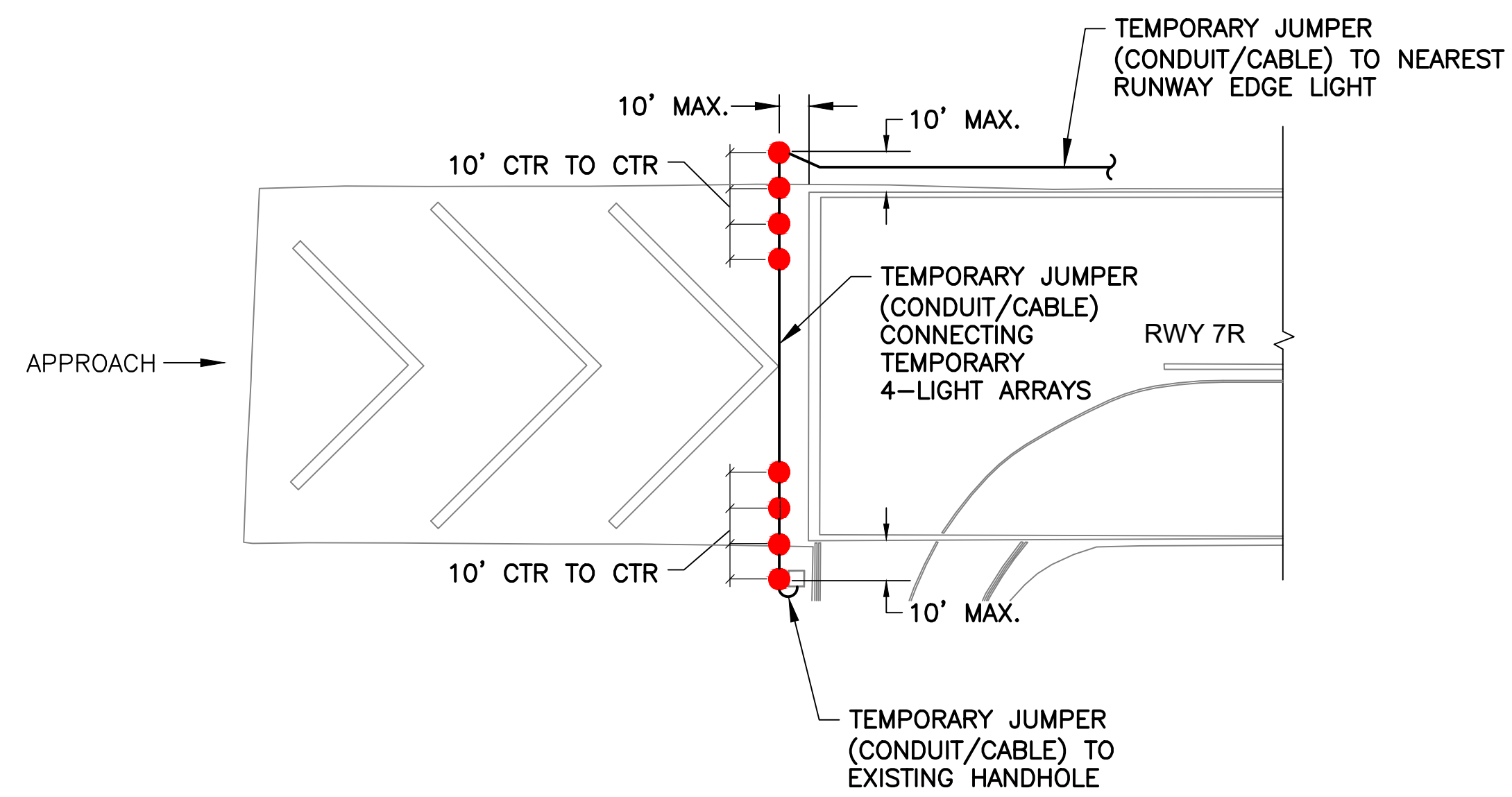


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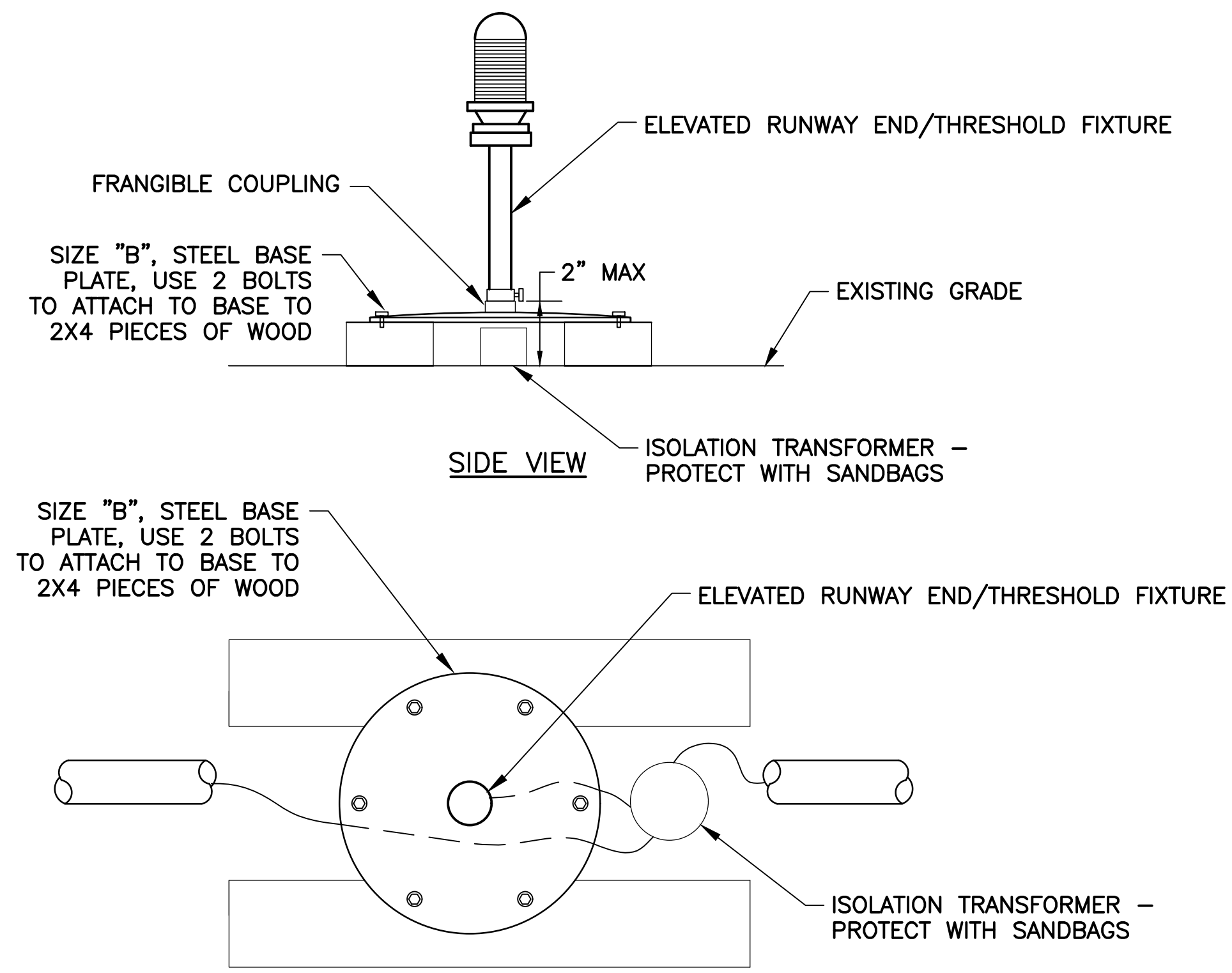




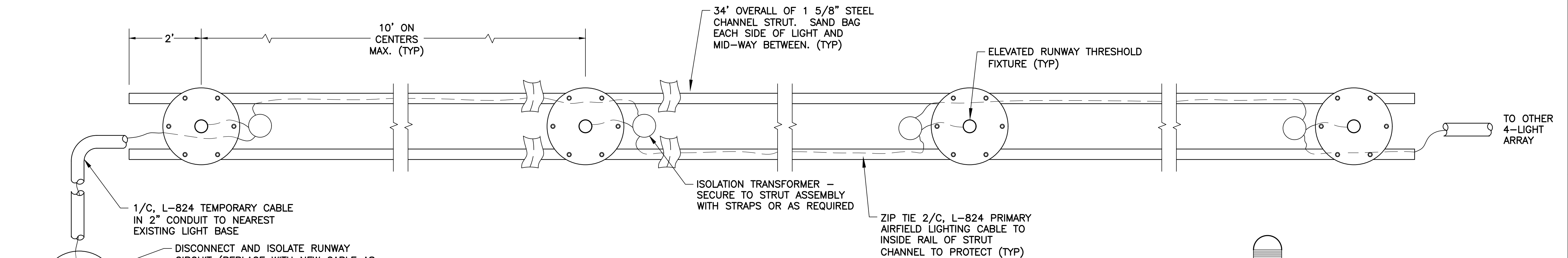
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**TYPICAL TEMPORARY 4-LIGHT ARRAY LOCATION DETAIL**  
NTS



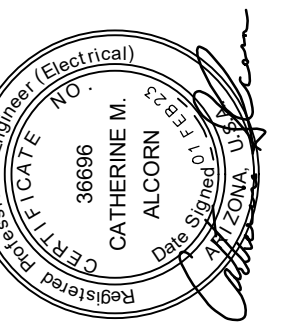
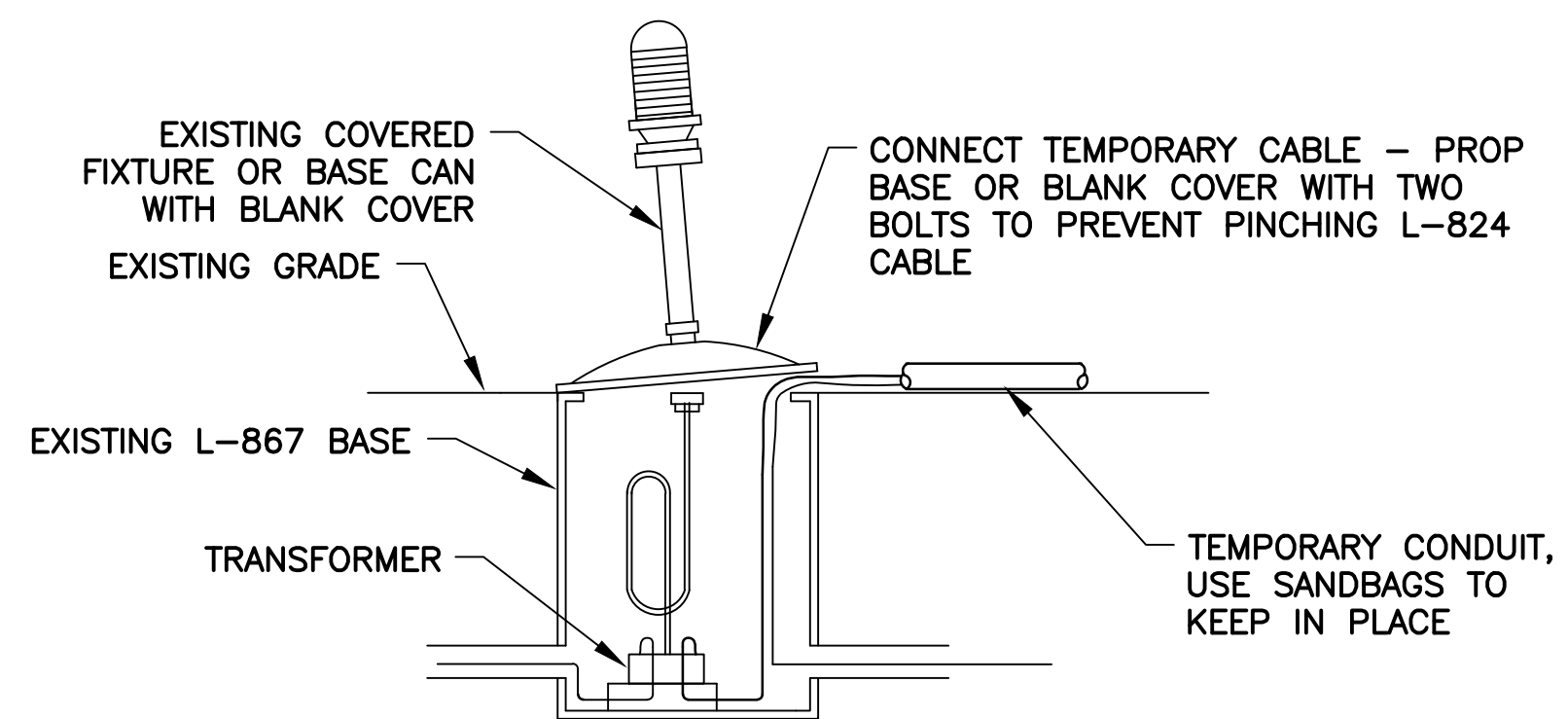
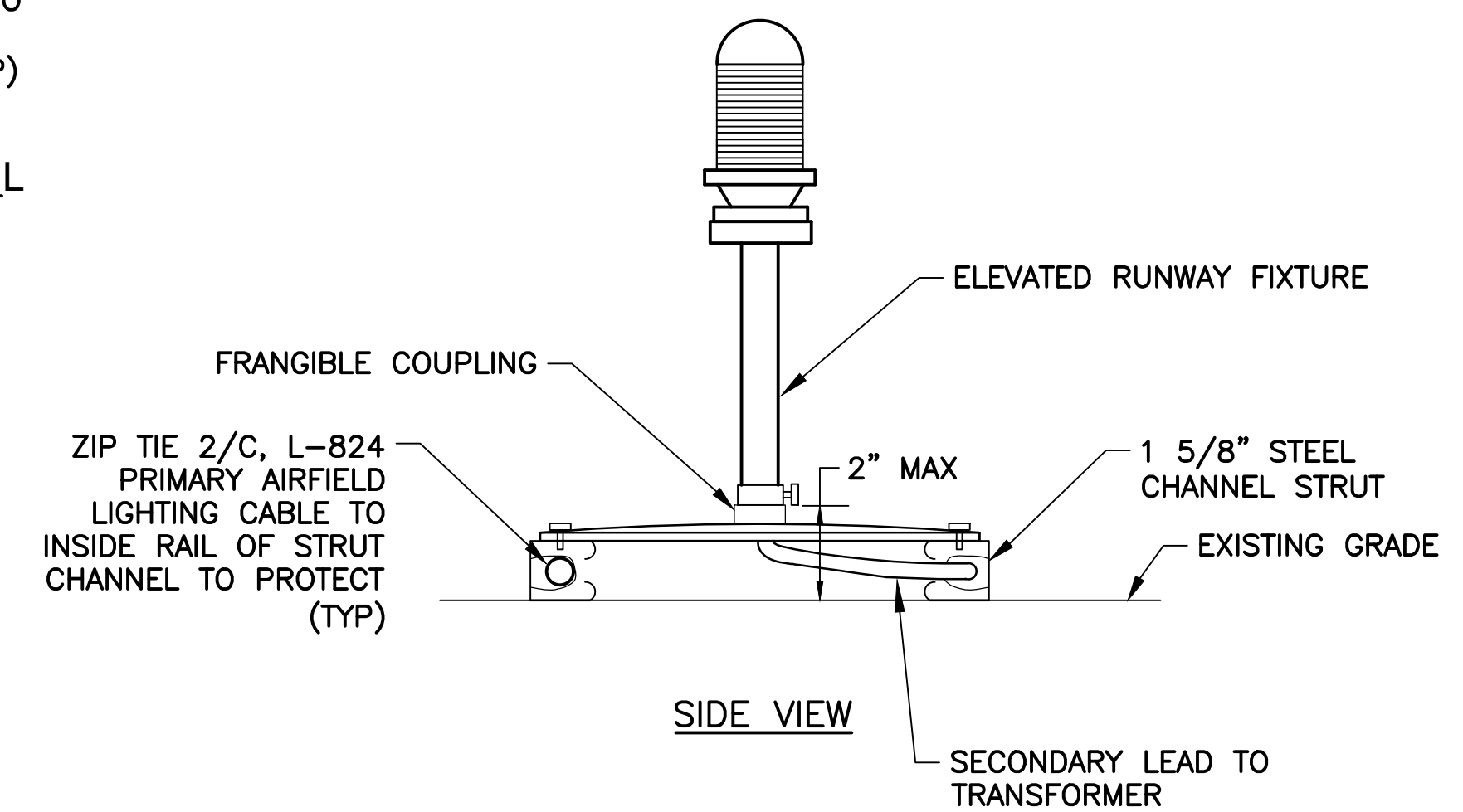
**103 TYP ELEVATED RUNWAY END/THRESHOLD LIGHT - TEMPORARY MOUNTING DETAIL**  
NTS



**101 TYP ELEVATED RUNWAY THRESHOLD LIGHTS - TEMPORARY MOUNTING DETAIL**  
NTS

**NOTES**

1. REMOVE EXISTING END/THRESHOLD LIGHTS AND ISOLATION TRANSFORMERS FOR TEMPORARY MOUNTING AT RUNWAY THRESHOLD DURING PAVEMENT RECONSTRUCTION.
2. TEMPORARY THRESHOLD LIGHTING SHALL BE 10' OFF OF APPROACH SIDE OF RUNWAY THRESHOLD/END MARKING.
3. RUNWAY 7R/25L EDGE LIGHTING CIRCUIT IS A 6.6A, 3-STEP MEDIUM-INTENSITY SERIES CIRCUIT.



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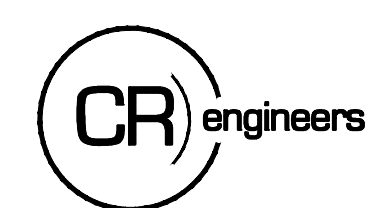
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Sheet Overview Title  
**ELECTRICAL DETAILS -  
RUNWAY 7R-25L TEMPORARY  
THRESHOLD/END LIGHTING**

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