CITY OF SAN ANGELO, TEXAS SAN ANGELO REGIONAL AIRPORT - MATHIS FIELD TAXIWAY RECONFIGURATION PROJECT

CITY RFB # AP-02-17 FAA AIP # 3-48-0191-035-2017

REMOVE EXISTING TAXIWAY C AND TAXIWAY E, CONSTRUCT RIGHT ANGLED TAXIWAY C AND TAXIWAY E, CONSTRUCT APRON ISLANDS, REPAIR APRON EDGE, AND REMARK TERMINAL APRON.

JULY 2017

OWNER

CITY OF SAN ANGELO, TX

CITY MANAGER

DANIEL VALENZUELA

AIRPORT DIRECTOR

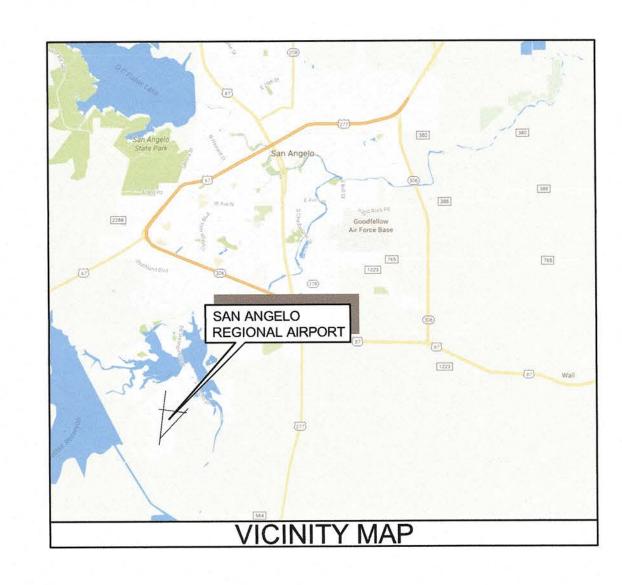
LUIS ELGUEZABAL, A.A.E.

MAYOR

BRENDA GUNTER

CITY COUNCIL MEMBERS

TOMMY HIEBERT TOM THOMPSON HARRY THOMAS **LUCY GONZALES** LANE CARTER CHARLOTTE FARMER



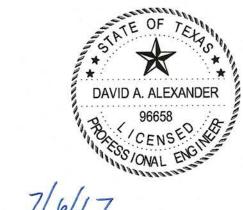


KSA

RECOMMENDED BY:



TBPE Firm Registration No. F-1356 58 Buick Street, San Angelo, Texas 76901 T. 325-947-1555 F. 325-947-1559 www.ksaeng.com



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DAVID A. ALEXANDER, P.E. PROJECT ENGINEER

DATE

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GENERAL NOTES

ADDITIONAL NOTES ON PLAN SHEETS

SAFETY NOTES:

- 1. WHILE THE AIRPORT IS OPEN, NO VEHICLE OR EQUIPMENT SHALL MOVE UPON APRONS, TAXIWAYS AND/OR RUNWAYS UNTIL THE VEHICLE IS GRANTED PERMISSION BY THE CONTROL TOWER. PERMISSION SHALL BE COORDINATED THROUGH THE AIRPORT DIRECTOR, LUIS ELGUEZABAL (325-659-6409). ONCE GRANTED PERMISSION, VEHICLE MAY PROCEED BY COORDINATING WITH THE TOWER ON THE APPROPRIATE GROUND CONTROL RADIO FREQUENCY, OR BE UNDER ESCORT BY A VEHICLE COORDINATING WITH THE TOWER ON THE APPROPRIATE GROUND CONTROL RADIO FREQUENCY. ALL VEHICLES MUST BE IDENTIFIED BY FLAG AND FLASHING AMBER LIGHT.
- 2. FLAGMEN WILL BE REQUIRED TO DIRECT THE CONTRACTOR'S VEHICLES AND EQUIPMENT WHICH ARE OPERATING IN THE AREA OF MOVING AIRCRAFT. FLAGMEN TO MONITOR UNICOM, FREQUENCY 122.95 MHz. AIRCRAFT ALWAYS HAVE THE RIGHT-OF-WAY.
- CONSTRUCTION PERSONNEL AND EQUIPMENT WILL NOT BE ALLOWED WITHIN THE AIRPORT OPERATIONS AREA (AOA) UNTIL THE AREA HAS BEEN CLOSED TO AIRCRAFT AND NOTAMS ISSUED.
- REFERENCE AC 150/5370-2F, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- 5. GENERAL SAFETY REQUIREMENTS: DURING PERFORMANCE OF THIS CONTRACT, THE AIRPORT RUNWAYS, TAXIWAYS, AND AIRCRAFT PARKING APRONS SHALL REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE. AIRCRAFT USE OF AREAS NEAR THE CONTRACTOR'S WORK WILL BE CONTROLLED TO MINIMIZE DISTURBANCE TO THE CONTRACTOR'S OPERATION. THE CONTRACTOR SHALL NOT ALLOW HIS/HER EMPLOYEES, SUBCONTRACTOR'S SUPPLIERS, OR ANY PERSON OVER WHOM HE/SHE HAS CONTROL TO ENTER OR REMAIN IN ANY PART OF THE AIRPORT WHICH WOULD BE HAZARDOUS TO PERSONS OR TO AIRCRAFT OPERATIONS. WHENEVER AIRCRAFT OPERATIONS REQUIRE, THE ENGINEER, MAY ORDER THE CONTRACTOR TO SUSPEND OPERATIONS, MOVE PLANT, PERSONNEL, EQUIPMENT, AND MATERIALS TO A SAFE LOCATION AND STAND BY UNTIL AIRCRAFT USE IS COMPLETED.
- 6. VEHICLE IDENTIFICATION AND PARKING: (A) CONTRACTOR VEHICLES AND EQUIPMENT SHALL BE IDENTIFIED BY FLAGS AND AMBER FLASHING LIGHTS. (B) EMPLOYEE PARKING SHALL BE IN THE CONTRACTOR'S STAGING AND STORAGE AREA.
- 7. THE CONTRACTOR SHALL NOT, FOR ANY REASON ENTER ACTIVE AIRFIELD AREAS WITHOUT EXPLICIT APPROVAL BY AIRPORT MANAGEMENT. THE CONTRACTOR SHALL LIMIT OPERATIONS TO LIMITS OF CONSTRUCTION ACTIVITIES.
- 8. RUNWAY 18/36 MUST BE CLOSED ANYTIME CONSTRUCTION ACTIVITY IS OCCURRING WITHIN 250' ON EITHER SIDE OF THE RUNWAY CENTERLINE. THE NUMBER AND THE DURATION OF RUNWAY CLOSINGS SHALL BE MINIMIZED. IN ORDER TO MINIMIZE RUNWAY CLOSURES, MULTIPLE CONSTRUCTION ACTIVITIES NEAR THE RUNWAY SHOULD OCCUR SIMULTANEOUSLY WHEN IT IS CLOSED.
- 9. THE CONTRACTOR SHALL EQUIP ALL CONSTRUCTION VEHICLES AND EQUIPMENT WITH A FLAG ON A STAFF ATTACHED TO THE VEHICLE AND READILY VISIBLE OR AMBER FLASHING LIGHT DURING DAY HOURS AND AMBER FLASHING LIGHT DURING NIGHT HOURS. THE FLAG SHALL BE NOT LESS THAN 3 FEET SQUARE CONSISTING OF A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE SQUARES NOT LESS THAN ONE FOOT ON EACH SIDE AND DISPLAYED IN FULL VIEW ABOVE THE VEHICLE.
- 10. ALL EQUIPMENT AND MATERIALS SHALL BE STORED IN THE CONTRACTORS STAGING AND STORAGE AREA WHEN NOT IN USE. EQUIPMENT AND MATERIALS SHALL NOT ENCROACH UPON ACTIVE OPERATIONAL AREAS. MINIMUM CLEARANCES SHALL BE MAINTAINED ON RUNWAYS IN ACCORDANCE WITH PART 77 OF THE FEDERAL AVIATION REGULATIONS.
- 11. ALL EXCAVATIONS, OPEN TRENCHES AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH FLAGS AND LIGHT UNITS ACCEPTABLE TO THE ENGINEER DURING HOURS OF RESTRICTED VISIBILITY OR
- 12. WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRPLANES MUST NOT BE PLACED ON ACTIVE AIRPLANE MOVEMENT AREAS. MATERIAL TRACKED ON THESE AREAS MUST BE REMOVED CONTINUOUSLY BY A SWEEPER OR VACUUM TRUCK SUPPLIED BY THE CONTRACTOR DURING THE PROJECT. NO DIRECT PAY IN BID

CONSTRUCTION NOTES:

- AIRPORT SECURITY IS OF UTMOST IMPORTANCE. THE CONTRACTOR SHALL SUPPLY HIS OWN LOCK FOR ACCESS GATES, AND SHALL KEEP THE GATES LOCKED OR GUARDED AT ALL TIMES, EXCEPT FOR THE BRIEF PERIOD REQUIRED FOR PASSAGE OF AUTHORIZED VEHICLES OR EQUIPMENT.
- 2. EACH CONSTRUCTION AREA SHALL BE SHAPED TO ALLOW DRAINAGE OF SURFACE WATER DURING EACH WORK OPERATION. THE CONTRACTOR SHALL PUMP SURFACE WATER IMMEDIATELY FROM EACH CONSTRUCTION AREA AFTER EACH RAIN.
- 3. THE MAJORITY OF THE WORK WILL BE ACCOMPLISHED DURING NORMAL DAYTIME WORKING HOURS, OR AS APPROVED BY THE ENGINEER.
- 4. STOCKPILE LOCATION SHALL BE ADJUSTED IN THE FIELD AND COORDINATED WITH THE ENGINEER. STOCKPILE SHALL NOT CREATE ANY PONDING OF WATER OR ALTER DRAINAGE PATTERNS OF THE AIRPORT PROPERTY EXCEPT AS SHOWN IN THESE PLANS.
- 5. ALL WASTE OR SPOIL MATERIAL SHALL BE DISPOSED OF OFF THE AIRPORT PROPERTY BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS AND DRAINAGE STRUCTURES TO CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT EACH POINT WHERE CONSTRUCTION CREWS OR EQUIPMENT WILL EXIT AIRPORT PROPERTY.
- 7. THE CONTRACTOR SHALL NOT, FOR ANY REASON ENTER ACTIVE AIRFIELD AREAS WITHOUT EXPLICIT APPROVAL BY AIRPORT MANAGEMENT. THE CONTRACTOR SHALL LIMIT OPERATIONS TO LIMITS OF CONSTRUCTION ACTIVITIES.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING PAVEMENTS, UNDERGROUND CABLES, PIPELINES, ETC. ENCOUNTERED DURING CONSTRUCTION. ALL REPAIRS MUST BE MADE IN COMPLIANCE WITH THE CITY OF SAN ANGELO, THE ENGINEER, AND THE FAA REQUIREMENTS.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND ACQUIRING AN ACCEPTABLE WATER SOURCE AS REQUIRED FOR CONSTRUCTION. CITY WATER IS AVAILABLE ON AIRPORT PROPERTY NEAR THE CONSTRUCTION SITE. CONTACT THE CITY OF SAN ANGELO WATER DEPARTMENT, (325-657-4323) FOR REQUIREMENTS FOR USING CITY WATER. THE CONTRACTOR SHOULD CHECK WITH THE REVENUE DEPARTMENT PRIOR TO PREPARING HIS BID IN ORDER TO DETERMINE ANY COST FOR WATER USED. NO DIRECT PAY PROVIDED IN BID PROPOSAL.
- 10. THE CONTRACTOR MUST PROVIDE A MINIMUM OF 72 HOURS NOTICE TO THE RESIDENT PROJECT REPRESENTATIVE (RPR), PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. A NOTICE TO AIRMEN (NOTAM) SHALL BE ISSUED. THE CONTRACTOR SHALL NOTIFY THE RPR WHO WILL THEN NOTIFY THE ENGINEER AND THE AIRPORT.

- 11. CONTRACTOR SHALL CLEAN UP ALL MUD, DIRT AND DEBRIS DROPPED ON EXISTING PAVEMENT AS A RESULT OF CONSTRUCTION ACTIVITIES ON A DAILY BASIS. ALL CLEANUP MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 12. ALL TRAFFIC CONTROL AND WARNING SIGNS SHALL BE IN ACCORDANCE WITH TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 13. CONTRACTOR SHALL PROVIDE RESTROOM FACILITIES FOR HIS EMPLOYEES.
- 14. THE CONTRACTOR, ON BEHALF OF THE OWNER, WILL OBTAIN ALL PERMITS REQUIRED BY THE CITY OF SAN ANGELO AND/OR TOM GREEN COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION.

ACCESS ROUTE NOTES:

- DAMAGE TO EXISTING PAVEMENTS WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION AT NO EXPENSE TO THE OWNER.
- ACCESS ROUTES FOR EACH CONSTRUCTION PHASE SHALL BE COORDINATED WITH THE ENGINEER. ROUTES SHOWN ARE PRELIMINARY ONLY, AND SUBJECT TO APPROVAL AND ADJUSTMENT BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ACCESS ROUTES (PAVED & UNPAVED). SEE PHASING PLANS FOR ADDITIONAL ACCESS ROUTE INFORMATION.
- 3. THE PAVEMENT ON THE ACCESS ROUTES MAY NOT SUPPORT CONSTRUCTION TRAFFIC. THE CONTRACTOR SHALL LIMIT LOADS AS NECESSARY TO PREVENT DAMAGE. IF PAVEMENTS TO REMAIN ARE DAMAGED OR REMOVED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE PAVEMENT TO ORIGINAL CONDITION OR BETTER, AT THE CONTRACTOR'S EXPENSE, AND IN ACCORDANCE WITH THE CITY OF SAN ANGELO'S SPECIFICATIONS.
- 4. AIRCRAFT ALWAYS HAVE THE RIGHT OF WAY.
- 5. CONTRACTOR SHALL SWEEP PAVEMENTS FREQUENTLY TO KEEP FREE OF DEBRIS.
- 6. CONTRACTOR SHALL WATER EXCAVATION, EMBANKMENT, BORROW AREAS AND ACCESS ROUTES AS REQUIRED TO MINIMIZE DUST ON THE RUNWAY, TAXIWAYS AND OTHER AIRCRAFT OPERATIONS AREAS AS DIRECTED BY THE ENGINEER OR HIS REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL OVER THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL LOCATE, MARK, AND PROTECT EXISTING ELECTRICAL CABLES, TELEPHONE CABLES, WATER UTILITIES, AND WASTE WATER UTILITIES. ANY DAMAGE TO THESE FACILITIES SHALL BE REPAIRED AT NO COST TO THE OWNER.

EXISTING UTILITY & PIPELINE NOTES:

- 1. TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING UTILITIES DURING CONSTRUCTION AND SHALL REPAIR ALL DAMAGES TO SAID UTILITIES AT NO EXPENSE TO THE OWNER.
- 2. CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITY LINES AND SHALL NOTIFY THE FOLLOWING AGENCY 48 HOURS PRIOR TO EXCAVATING NEAR EXISTING

NATIONAL ONE-CALL

8-1-1

ENVIRONMENTAL NOTES:

- IN THE EVENT THAT UNANTICIPATED ARCHEOLOGICAL DEPOSITS ARE ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL CEASE AND THE ENGINEER WILL CONTACT PROFESSIONAL ARCHEOLOGISTS TO INITIATE POST-REVIEW DISCOVERY PROCEDURES UNDER THE PROVISIONS OF 36 CRF 800.13.
- 2. IN THE EVENT THAT UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL CEASE AND THE ENGINEER WILL BE NOTIFIED.
- STOCKPILES AND STAGING AREAS WILL NOT BE PLACED WITHIN ANY WATER OF THE UNITED STATES, INCLUDING WETLANDS.
- 4. HAZARDOUS WASTE: ALL SPILLS MUST BE REPORTED IMMEDIATELY TO THE TXDOT

SUMMARY OF QUANTITIES

Item	Spec.			Estimated	Actual
No.	No.	Description	Units	Quantity	Quantity
1.01	KSA-100	Mobilization	LS	1	
1.02	KSA-105	Barricades and Markings for Pavement Closures	LS	1	
1.03	P-156	Stormwater Pollution Prevention Plan (SWP3) Document	LS	1	
1.04	P-156	Temporary Sediment Control Fence	LF	1500	
1.05	P-156	Rock Construction Exit	EA	2	
1.06	T-905	Topsoiling (Obtained on Site or Removed from Stockpile)	CY	1736	
1.07	T-901	Seeding	AC	6	
1.08	T-904	Sodding	SY	1362	

tem	Spec.			Estimated	Actual
No.	No.	Description	Units	Quantity	Quantity
2.01	P-152	Unclassified Excavation	CY	3934	
2.02	P-101	Asphaltic Concrete Pavement Removal	SY	11800	
2.03	P-155	8" Lime Treated Subgrade	SY	15010	
2.04	P-155	Hydrated Lime (7%)	TON	380	
2.05	P-403	11" HMA Base Course	TON	9322	
2.06	P-401	5" HMA Surface Course	TON	3886	
2.07	P-610	Portland Cement Concrete	CY	75	
2.08	P-602	Bituminous Prime Coat	GAL	2825	
2.09		Artificial Turf	SY	1965	
2.10	D-751	30" X 30" Inlet	EA	1	
2.11	D-701	24" Class III RCP	LF	32	
2.12	D-701	18" x 28.5" Class III RCP Arch Pipe	LF	204	
2.13	D-752	Sloped End Treatment for Arch Pipe	EA	2	
2.14	P-620	Yellow Markings (Reflective)	SF	20780	
2.15	P-620	Red Markings (Non-Reflective)	SF	2355	
2.16	P-620	Surface Painted Signs	EA	4	
2.17	P-620	Black Markings (Non-Reflective)	SF	14875	
2.18	P-620	Pavement Marking Removal	SF	18235	

tem	Spec.			Estimated	Actual
No.	No.	Description	Units	Quantity	Quantity
3.01	- The service of the service of the	Mobilization	LS	1	
3.02	L-108-5.1	No. 8 AWG, 5 KV, L-824, Type C Cable, Installed in Conduit	LF	7500	
3.03	L-108-5.2	No. 6 AWG, Solid Bare Counterpoise Wire, Installed in Trench, Including Ground Rods and Ground Connectors	LF	5000	
3.04	L-108-5.3	Remove Existing No. 8 AWG, L-824C in 2" Conduit	LF	8000	
3.05	L-108-5.4	Remove No. 6 AWG, Solid, Bare Counterpoise Wire, Installed in Trench, Including Ground Rods	LF	6000	
3.06	L-110-5.1	Install 2" PVC Schedule 40 Conduit In Trench Including Excavation and Backfill	LF	5000	
3.07	L-110-5.2	Install 2" HDPE SDR 11 Conduit Directional Boring under Pavement	LF	1200	
3.08	L-110-5.3	Remove Existing 2" Conduit	LF	7000	
3.09	L-110-5.4	Install 2" Conduit in Concrete Encased Duct Bank	LF	1200	
3.10	L-115-5.1	Install L-867E Electrical Handhole	EA	3	
3.11	L-115-5.2	Remove Existing Handhole	EA	2	
3.12	S-E125-5.1	Install Can-Mounted Elevated MITL/MIRL, Transformer, Base Can and Concrete Pad	EA	53	
3.13	S-E125-5.2	Install In-Pavement Elevated MITL, Transformer, Base Can in Existing PCC Pavement	EA	19	
3.14	S-E125-5.3	Install Base Mounted Sign L-858, Size 2 with Sign Legends per drawings, all in place	EA	13	
3.15	S-E125-5.4	Remove Existing Can-Mount Elevated MITL/MIRL including Transformer, Base Can, and Concrete Pad	EA	55	
3.16	S-E125-5.5	Remove Base Mounted Sign L-858, Size 2 and Concrete Pad	EA	9	
3.17	S-E890-5.1	Install Airfield Lighting Control and Monitoring System (ALCMS)	LS	1	
3.18	S-E890-5.2	Remove Existing Airfield Lighting Control and Monitoring System	LS	1	
3.19	S-E890-5.3	Install a Wireless WIFI Bridge Network System for the ALCMS	LS	1	

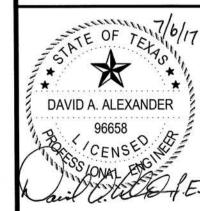
Item	Spec,			Estimated	Actual
No.	No.	Description	Units	Quantity	Quantity
AA1.01	P-152	Unclassified Excavation	CY	687	
AA1.02	P-101	Asphaltic Concrete Pavement Removal	SY	1000	
AA1.03	P-501	24" PCC Pavement	SY	1000	

MARK

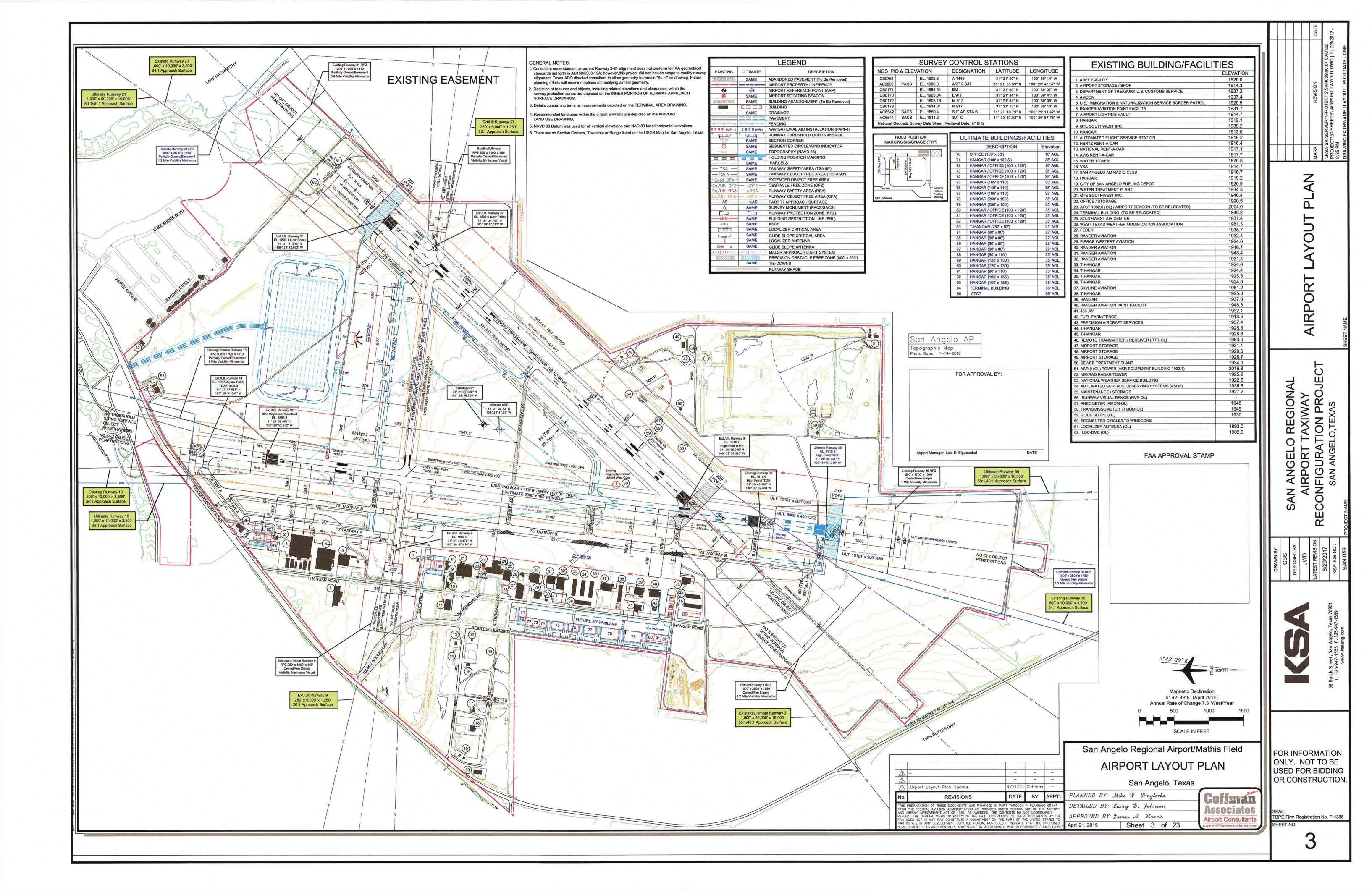
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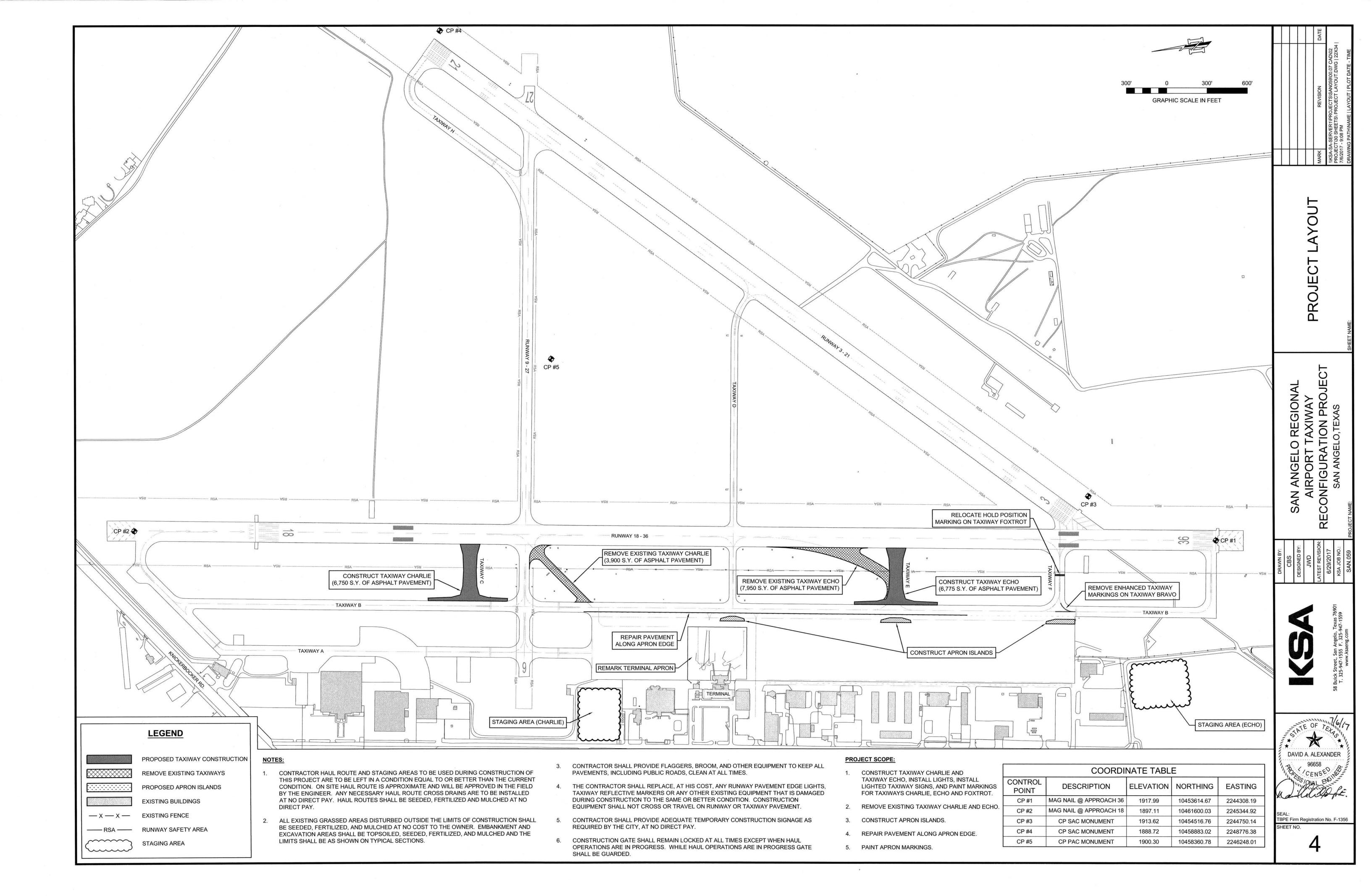
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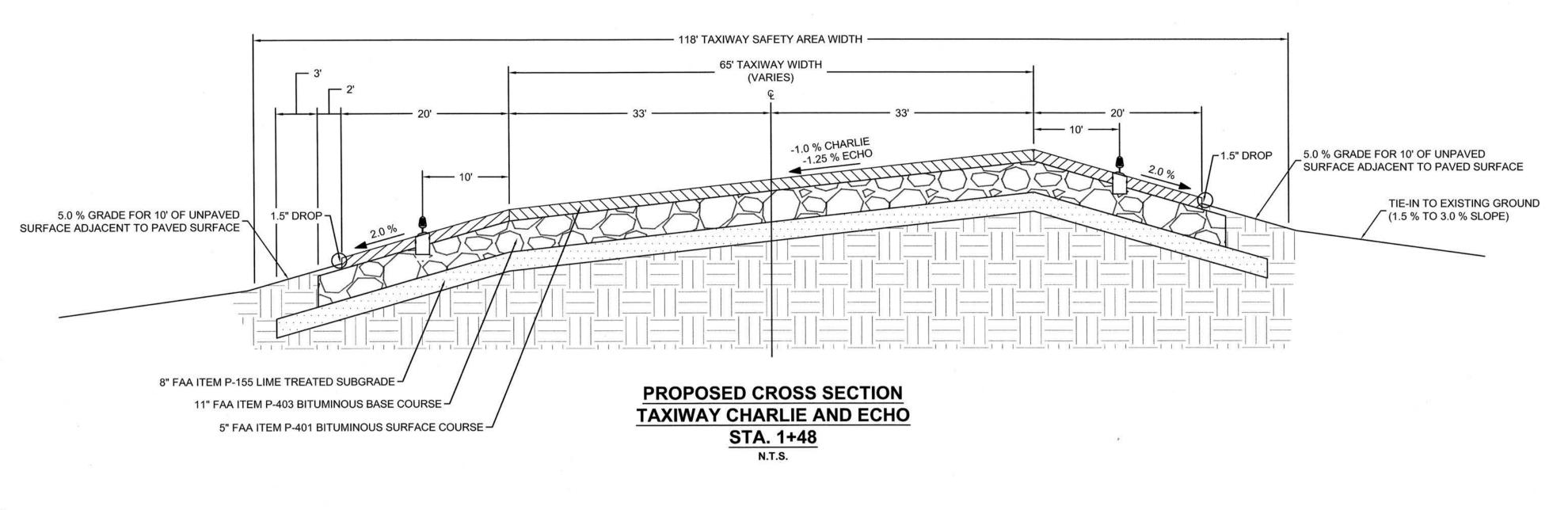




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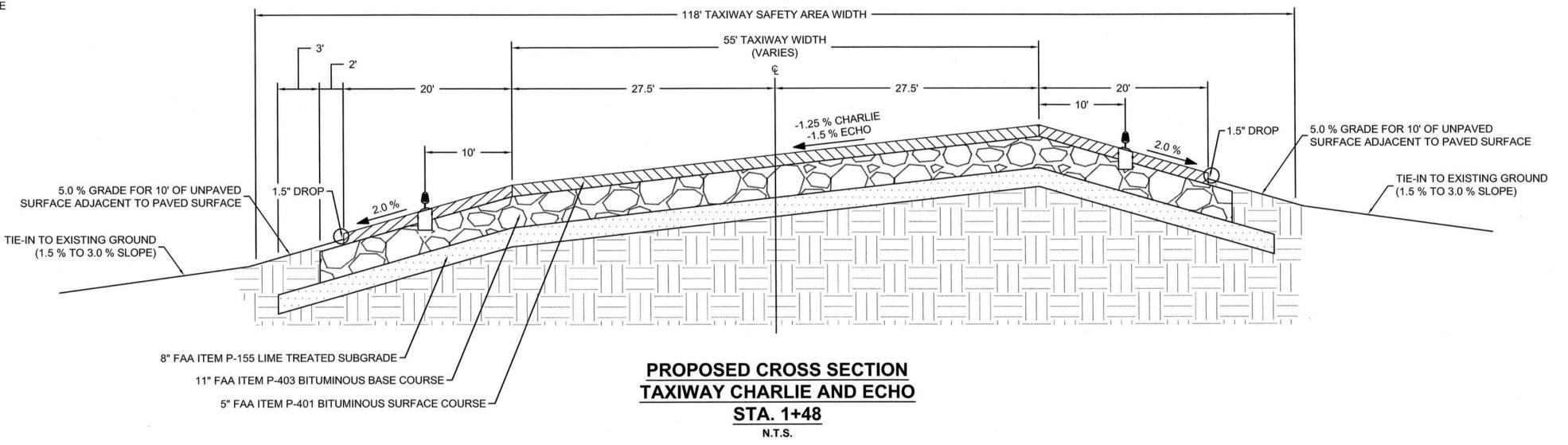


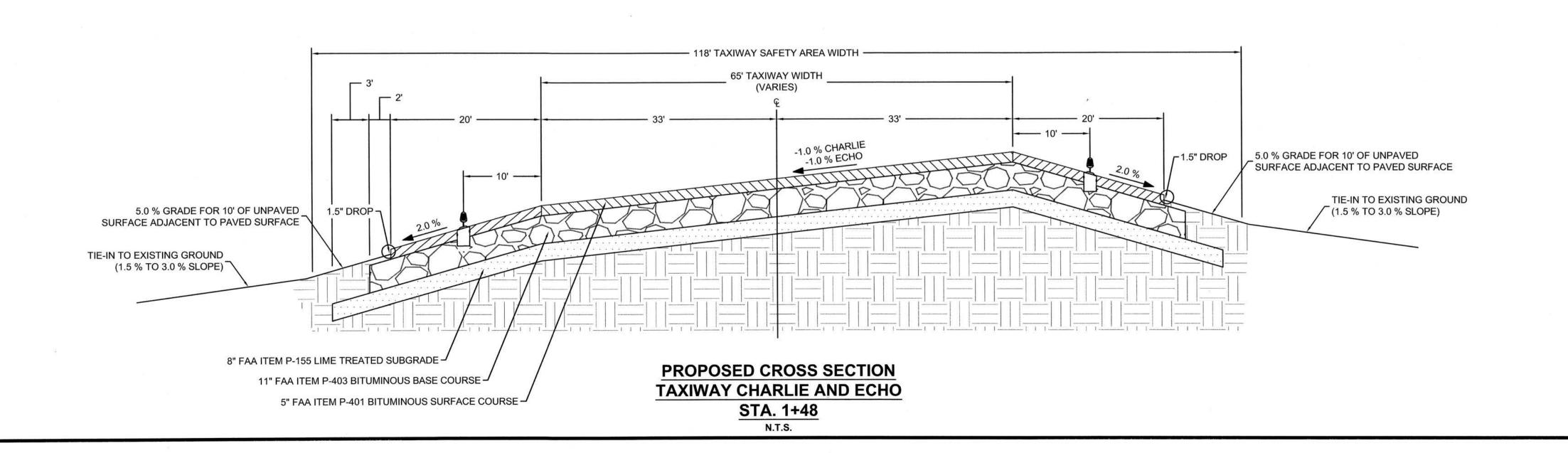




NOTE

- FOR PAVEMENT DESIGN THICKNESSES REFER TO THE GEOTECHNICAL REPORT BY RODRIGUEZ ENGINEERING LABORATORIES, MARCH 30TH, 2016.
- 2. PROPOSED CROSS SECTIONS ARE THE SAME FOR BOTH TAXIWAY ECHO AND TAXIWAY CHARLIE.





MARK

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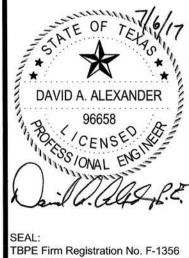
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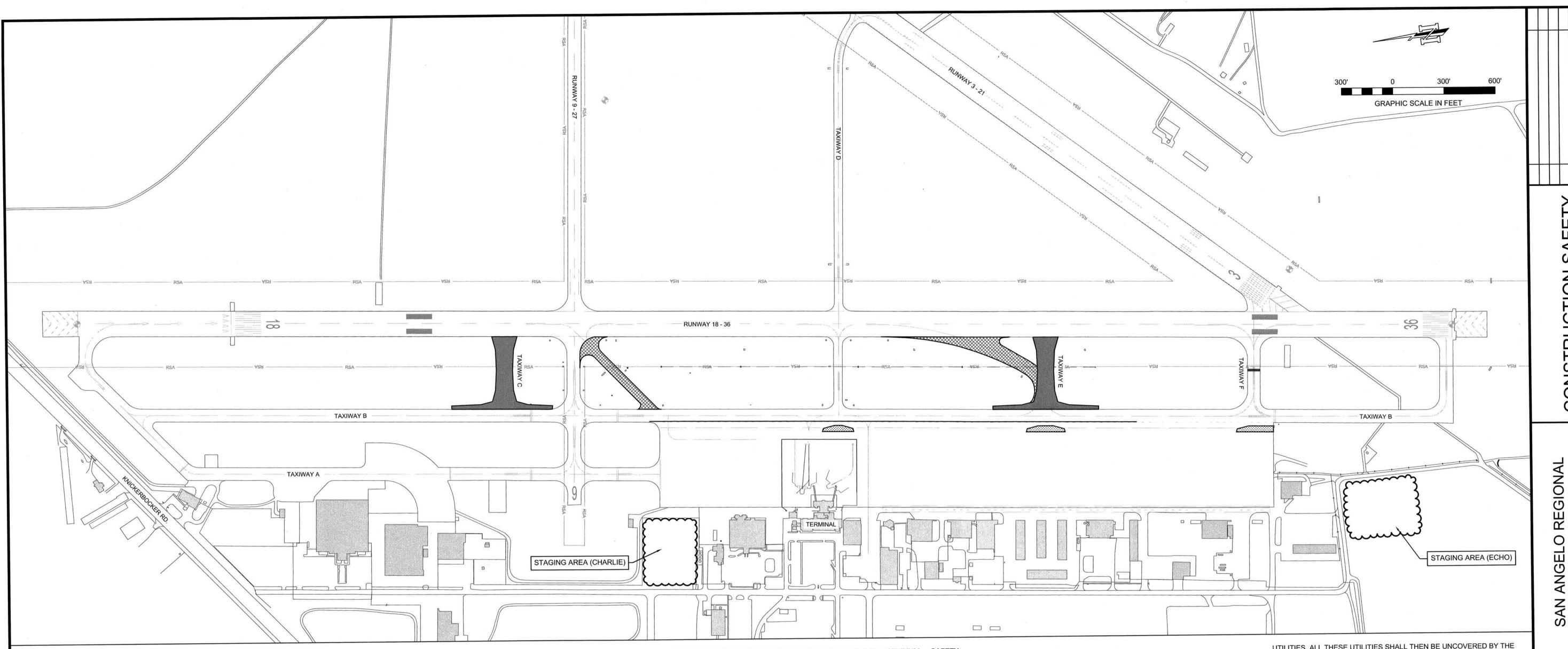
LATEST REVISION

6/29/2017





TBPE Firm Registration No. F-13
SHEET NO.



COMMUNICATIONS:

- 1. SAN ANGELO REGIONAL AIRPORT GROUND FREQUENCY 122.95. OTHER FREQUENCIES MAY BE USED PER AIRPORT TOWER DIRECTION.
- 2. THE CONTRACTOR WILL PROVIDE PORTABLE HAND HELD 2-WAY RADIOS (AVIATION BAND), SET TO THE APPROPRIATE FREQUENCIES, TO EACH FLAG MAN, SUPERVISORY INDIVIDUAL, AND RESIDENT PROJECT REPRESENTATIVE (RPR) SO THAT THEY MAY REMAIN IN CONSTANT CONTACT WITH THE AIR TRAFFIC CONTROL TOWER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL RADIOS IN WORKING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. UPON COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE OWNER, THE RPR WILL RETURN THE RADIO TO THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL PROVIDE THE NAME AND TELEPHONE NUMBER OF THE PERSON TO ATCT AND OWNER AS THE CONTRACTOR'S REPRESENTATIVE, AVAILABLE 24 HOURS PER DAY, SHOULD PROBLEMS PERTAINING TO THE CONSTRUCTION WORK ARISE WHICH WOULD REQUIRE THE CONTRACTOR'S IMMEDIATE ATTENTION.

COORDINATION:

- 1. CONTRACTOR PROGRESS MEETINGS THE OWNER, ENGINEER AND/OR THE ON-SITE REPRESENTATIVE AND THE CONTRACTOR WILL HOLD PROGRESS MEETINGS ON A COORDINATED SCHEDULE DURING CONSTRUCTION. THE CSPP WILL BE A STANDING AGENDA ITEM IN SUCH MEETINGS. AIRPORT TENANTS AND USERS SHALL BE INVITED TO ATTEND THESE MEETINGS.
- 2. SCOPE OR SCHEDULE CHANGES CHANGES IN THE SCOPE OR DURATION OF THE PROJECT MAY NECESSITATE REVISIONS TO THE CSPP AND REQUIRE REVIEW AND APPROVAL BY THE OWNER AND FAA.
- 3. FAA ATO COORDINATION COORDINATION WITH THE FAA WILL BE DIRECTED THROUGH THE OWNER. COORDINATION WILL BE MADE WHEN SCHEDULING AIRWAY FACILITY SHUTDOWN AND RESTARTS. CONTRACTOR WILL COORDINATE WITH OWNER REGARDING SPECIFIC REQUIREMENTS RELATED TO SHUTDOWNS AND RESTARTS.

1. REFER TO PLANS (SHEETS 7-12) FOR INDIVIDUAL PHASE ELEMENTS REGARDING PAVEMENT CLOSURES, DURATION, TAXI ROUTES, AND NAVAID IMPACTS.

NAVIGATION AID (NAVAID PROTECTION):

1. NOTICE TO AIRMEN (NOTAM) - CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 72 HOURS BEFORE NOTAMS ARE REQUIRED. OWNER WILL THEN ENSURE NOTAMS ARE PUBLISHED APPROPRIATELY. ALL OPENINGS AND

CLOSURES OF THE AOA OR RESTRICTION ON AIRPORT OPERATIONS SHALL BE INITIATED OR CANCELED BY THE OWNER. THE CONTRACTOR WILL NOT COMMENCE CONSTRUCTION UNTIL APPROPRIATE NOTAMS HAVE BEEN ISSUED.

CONTRACTOR ACCESS:

1. THE AIR OPERATIONS AREA (AOA) IS DEFINED AS ALL PAVED AND UNPAVED AREAS OF THE AIRPORT INSIDE THE PERIMETER FENCE AND INCLUDES BUT IS NOT LIMITED TO APRONS, TAXIWAYS, RUNWAYS AND RUNWAY SAFETY AREAS.

- a. IT IS THE INTENT OF THESE PLANS TO MINIMIZE INTERFERENCE TO AIRCRAFT MOVEMENT. IN ACTIVE PORTIONS OF THE AOA, AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO SUSPEND ALL CONSTRUCTION ACTIVITY IF REQUIRED FOR AIRCRAFT OPERATIONS. THIS WILL REQUIRE THE CONTRACTOR TO MOVE PERSONNEL, EQUIPMENT AND MATERIALS TO A SAFE LOCATION AND STAND BY UNTIL AIRCRAFT USE IS COMPLETED.
- b. DURING PERFORMANCE OF THIS CONTRACT, RUNWAYS, TAXIWAYS AND AIRCRAFT PARKING APRONS WILL REMAIN OPEN TO THE MAXIMUM EXTENT POSSIBLE.

2. CONSTRUCTION ACCESS AND HAUL ROUTES

- a. ACCESS TO THE JOB SITE SHALL BE THROUGH DESIGNATED ROUTES DEPICTED ON THE PHASING PLANS (SHEET 7-12).
- b. ACCESS ROUTES FOR EACH CONSTRUCTION PHASE WILL BE COORDINATED WITH THE OWNER. ACCESS ROUTES DEPICTED ON THE PLANS ARE PRELIMINARY ONLY AND ARE SUBJECT TO APPROVAL AND ADJUSTMENT BY THE OWNER.
- c. THE PAVEMENTS ON THE ACCESS ROUTES MAY NOT SUPPORT LOADS IMPOSED BY CONSTRUCTION EQUIPMENT OR VEHICLES. THE CONTRACTOR SHALL LIMIT LOADS AS NECESSARY TO PREVENT DAMAGE OR SHALL INCLUDE IN HIS BID ADEQUATE BUDGET TO REPAIR OR DAMAGE TO THE PAVEMENT.
- AIRCRAFT ALWAYS HAVE RIGHT OF WAY.
- e. SWEEP PAVEMENTS ADJACENT TO WORK AND ACCESS AREAS FREQUENTLY TO KEEP PAVEMENT FREE OF LOOSE DEBRIS AT ALL
- f. PRIVATELY OWNED VEHICLE (POV) PARKING SHALL BE DESIGNATED BY THE ENGINEER OR AS SHOWN.

- g. CONSTRUCTION EQUIPMENT AND VEHICLES SHALL TRAVEL A MINIMUM SAFETY: AMOUNT ON NEWLY CONSTRUCTED PAVEMENTS SO THAT THESE ARE NOT DAMAGED. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO THE NEWLY CONSTRUCTED PAVEMENTS AT THE CONTRACTOR'S EXPENSE.
- h. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO ORIGINAL OR BETTER CONDITION AT NO EXPENSE TO THE OWNER.

3. VEHICLE AND PEDESTRIAN OPERATIONS

FREQUENCY.

AUTHORIZED.

- a. NO VEHICLE OR EQUIPMENT SHALL MOVE INSIDE THE AOA UNLESS IT
 - i. LIGHTED OR MARKED / FLAGGED (FLAG OR LIGHT FOR DAY TIME ACTIVITY AND LIGHT FOR NIGHT TIME ACTIVITY). ii. MONITORING THE APPROPRIATE RADIO FREQUENCY OR IS UNDER THE ESCORT OF A VEHICLE MONITORING THE APPROPRIATE RADIO
- b. CONTRACTOR EMPLOYEES OR EMPLOYEES OF SUBCONTRACTORS OR SUPPLIERS, OR ANY OTHER PERSON UNDER THE CONTROL OF THE CONTRACTOR SHALL NOT ENTER ANY PART OF THE AIR OPERATIONS AREA (AOA) FROM THE CONSTRUCTION SITE UNLESS
- c. FLAG MEN OR ESCORTS WILL BE REQUIRED TO DIRECT THE CONTRACTOR'S TRUCKS AND EQUIPMENT THAT ARE OPERATING ON ACTIVE PORTIONS OF THE AOA.
- CONSTRUCTION EQUIPMENT AND VEHICLES SHALL NOT EXCEED A SPEED OF 15 MPH WITHIN AIRPORT PROPERTY.

4. STOCKPILED MATERIAL

- a. CONTRACTOR IS LIMITED TO PLACEMENT OF STOCKPILED MATERIALS AT DESIGNATED LOCATIONS DEPICTED IN THE PLANS.
- b. CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE OWNER PRIOR TO STOCKPILING MATERIALS.
- MATERIAL STOCKPILES WILL BE MANAGED BY THE CONTRACTOR SO THAT THEY DO NOT - ATTRACT WILDLIFE, GENERATE FOREIGN OBJECT DEBRIS (FOD) OR PENETRATE ANY AIRPORT OPERATION SURFACE LIKE THE APPROACH/DEPARTURE SURFACE ETC.

- 1. THE CONTRACTOR WILL ENSURE THAT AREAS OF AIRCRAFT OPERATION ARE CLEARLY AND VISIBLY SEPARATED FROM CONSTRUCTION AREAS.
- 2. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL SAFETY DEVICES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RPR.
- 3. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL SECURITY POLICIES OF THE AIRPORT INCLUDING ESCORTING PERSONNEL, BADGING AND ACCESS WITHIN THE SECURED AREAS OF THE AIRPORT. ACCESS OUTSIDE THE DEFINED CONSTRUCTION AREA IS STRICTLY PROHIBITED.
- 4. THE CONTRACTOR MUST TAKE CARE TO MAINTAIN SECURITY DURING CONSTRUCTION. THE CONTRACTOR SHALL KEEP THE GATES LOCKED OR GUARDED AT ALL TIMES TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL AND ANIMALS. THE CONTRACTOR MUST IMPLEMENT PROCEDURES TO ENSURE THAT ONLY AUTHORIZED PERSONS AND VEHICLES HAVE ACCESS TO THE AOA AND TO PROHIBIT "PIGGYBACKING" BEHIND AUTHORIZED VEHICLES.
- 5. FOD PREVENTION THE CONTRACTOR SHALL PROVIDE A MOTORIZED MECHANICAL SWEEPER ALONG WITH A "FOD PLAN" PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE FOD PLAN IS SUBJECT TO APPROVAL BY THE CONSTRUCTION MANAGER. THE FOD PLAN AND DAILY ACTIVITIES SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER.
- 6. THE CONTRACTOR SHALL PROTECT ALL EXISTING RUNWAY AND TAXIWAY LIGHTS OR REMOVE, STORE AND THEN RE-INSTALL THEM UPON COMPLETION OF THE PROJECT AT NO ADDITIONAL COST TO THE AIRPORT OWNER.

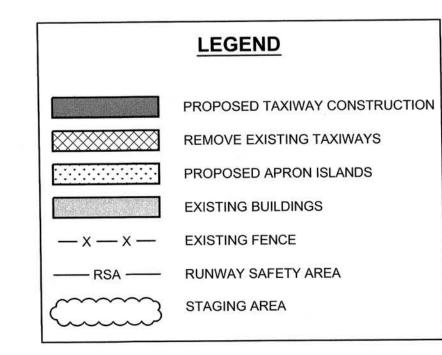
7. UTILITIES:

- a. THE CONTRACTOR WILL ANTICIPATE ALL UNDERGROUND STRUCTURES SUCH AS BUT NOT LIMITED TO WATER MAINS, GAS LINES, STORM AND SANITARY SEWERS, TELEPHONE OR ELECTRIC LIGHT OR POWER DUCTS, CONCRETE, DEBRIS. ANY UNDERGROUND STRUCTURE DEPICTED ON THE PLANS SHOWS AN APPROXIMATE LOCATION AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE OWNER AND CONSTRUCTION MANAGER WILL ENDEAVOR TO APPRIZE THE CONTRACTOR OF ALL UNDERGROUND STRUCTURES BUT THIS WILL NOT RELIEVE THE CONTRACTOR FROM COMPLETE RESPONSIBILITY IN LOCATING ALL UNDERGROUND STRUCTURES WHETHER DEPICTED ON THE PLANS OR NOT.
- b. THE CONTRACTOR AT HIS EXPENSE SHALL NOTIFY ALL UTILITY COMPANIES TO ACCURATELY LOCATE AND MARK ALL UNDERGROUND

UTILITIES. ALL THESE UTILITIES SHALL THEN BE UNCOVERED BY THE CONTRACTOR TO VERIFY THEIR LOCATION AND ELEVATION PRIOR TO COMMENCEMENT OF CONSTRUCTION AT NO COST TO THE OWNER. THE CONTRACTOR WILL COORDINATE WITH THE UTILITY OWNER IF A UTILITY INSPECTOR IS REQUIRED TO BE ON SITE WHEN LOCATING OR EXCAVATING NEAR UTILITIES.

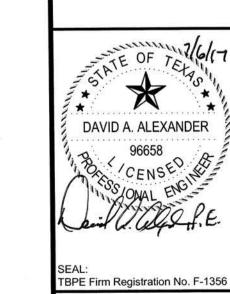
8. THE CONTRACTOR SHALL HANDLE ALL HAZARDOUS MATERIAL (HAZMAT) WITH THE RELEVANT AUTHORITIES AND PURSUANT TO LOCAL, STATE, AND

9. ALL ACTIVITIES WILL BE PERFORMED IN CONFORMANCE WITH FEDERAL AVIATION ADMINISTRATION'S (FAA) ADVISORY CIRCULAR (AC) 150/5370-2 TITLED "OPERATIONAL SAFETY ON AIRPORTS



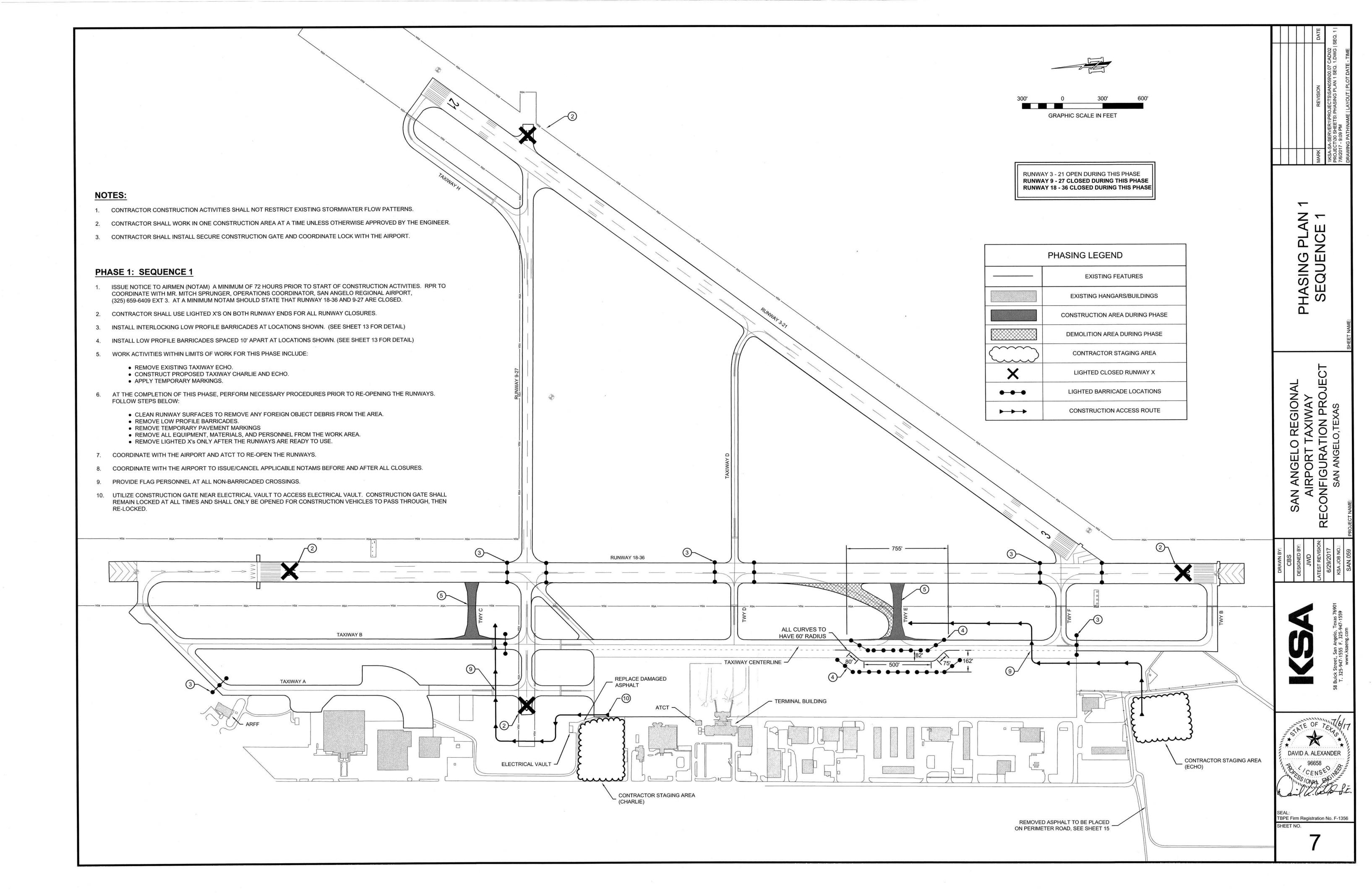
FEDERAL RULES AND REGULATIONS.

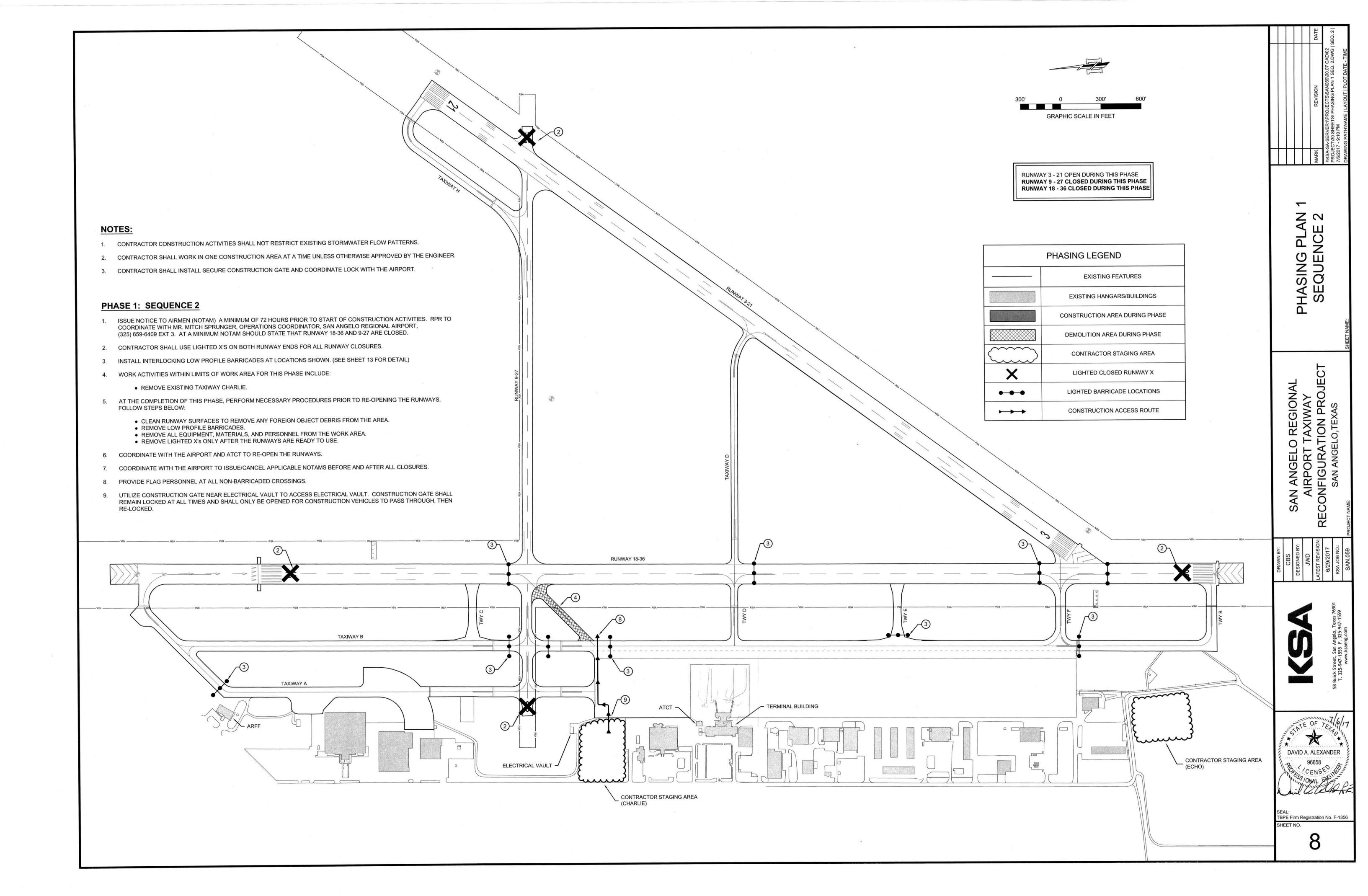
DURING CONSTRUCTION", LATEST VERSION. NOTHING ON THE PLANS WILL RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS SET FORTH THEREIN.

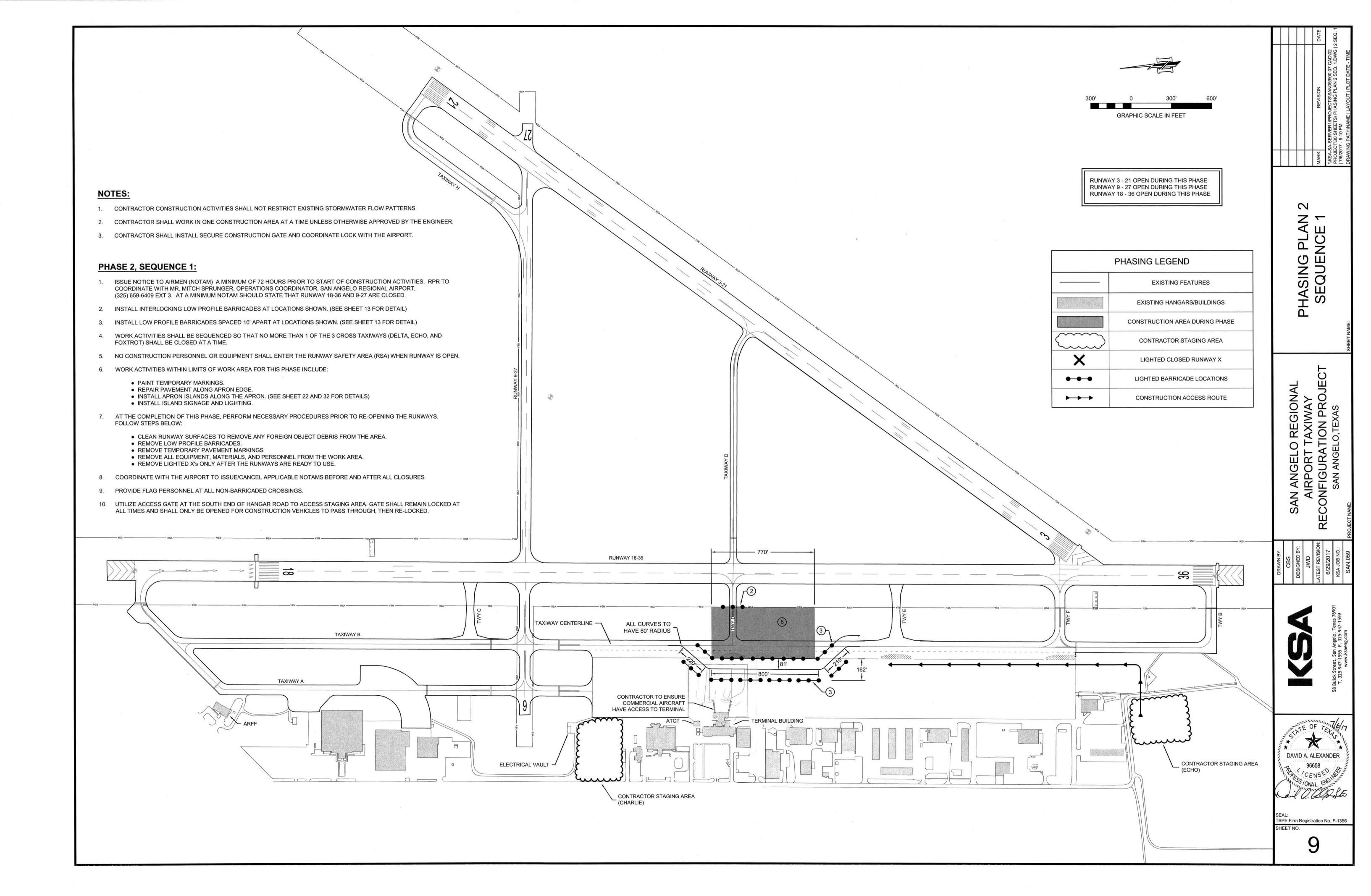


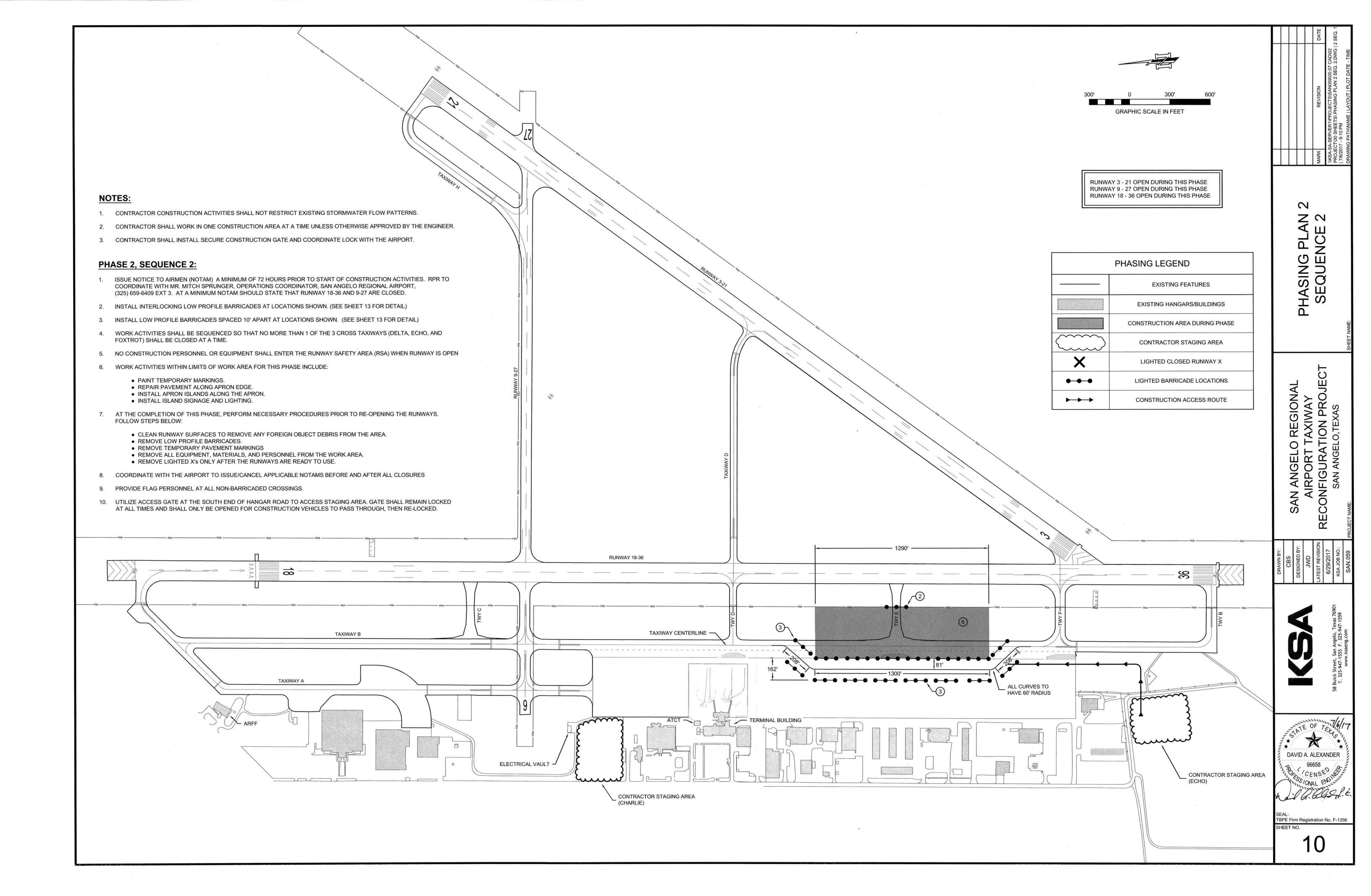
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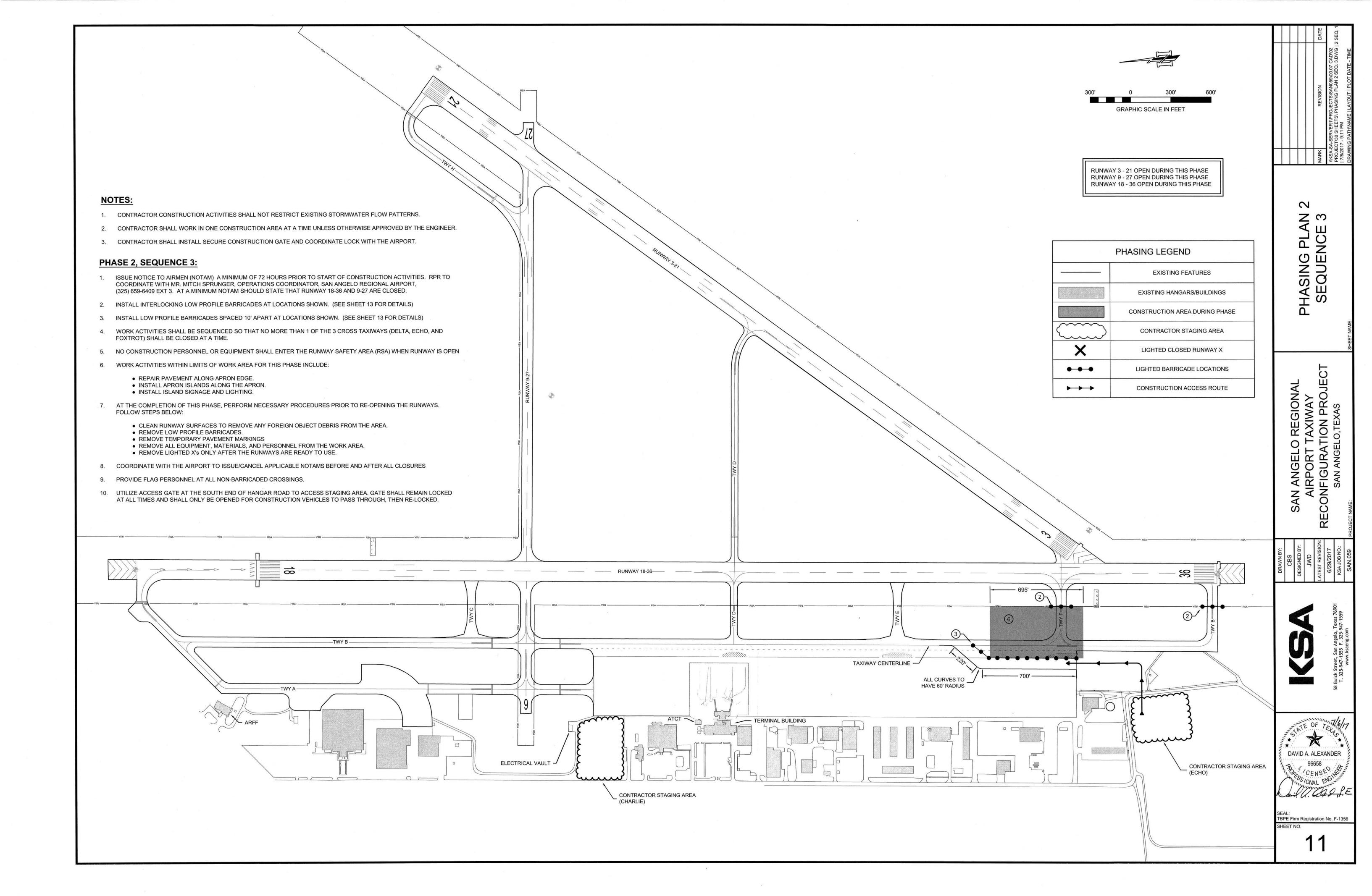
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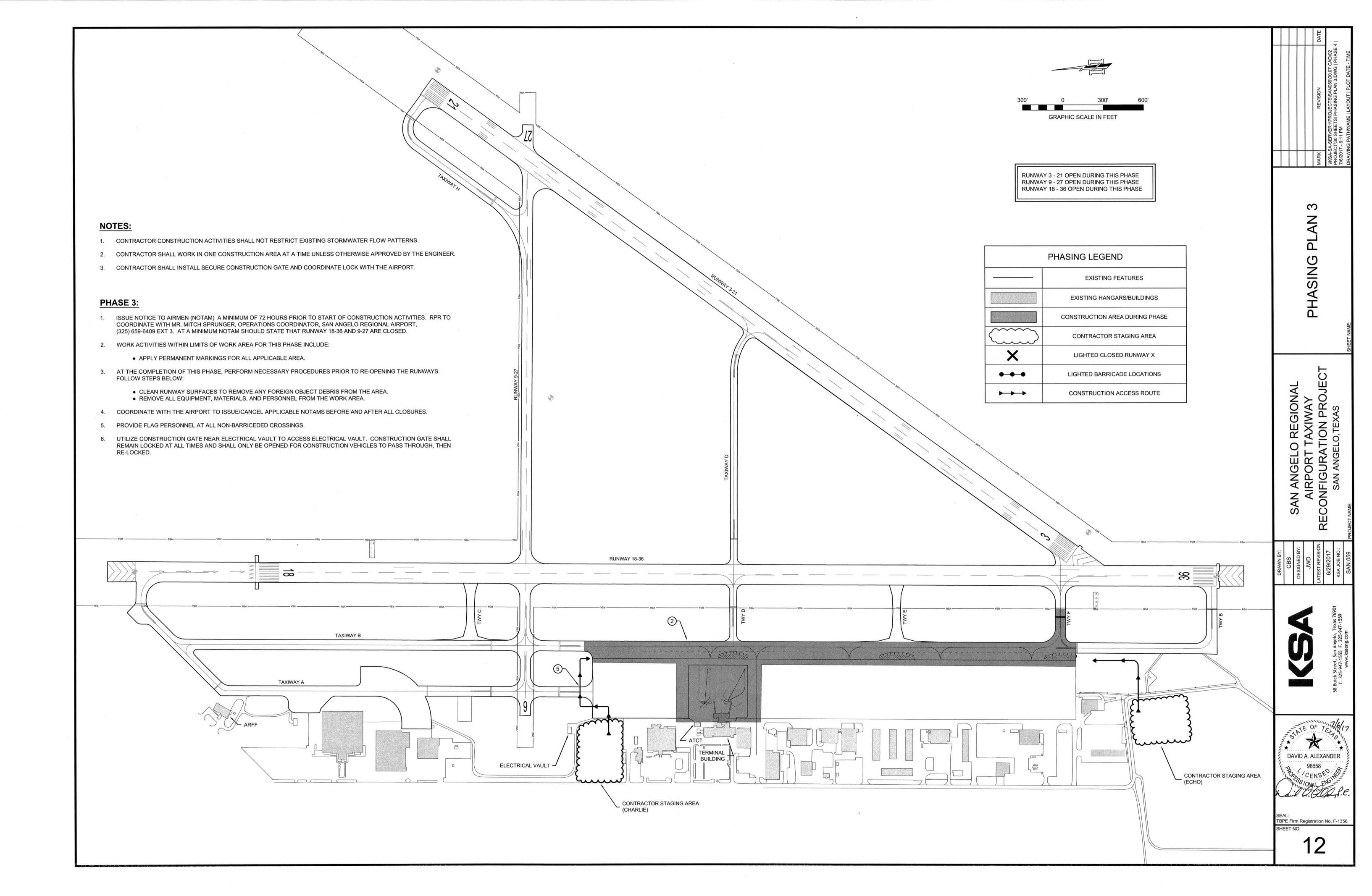


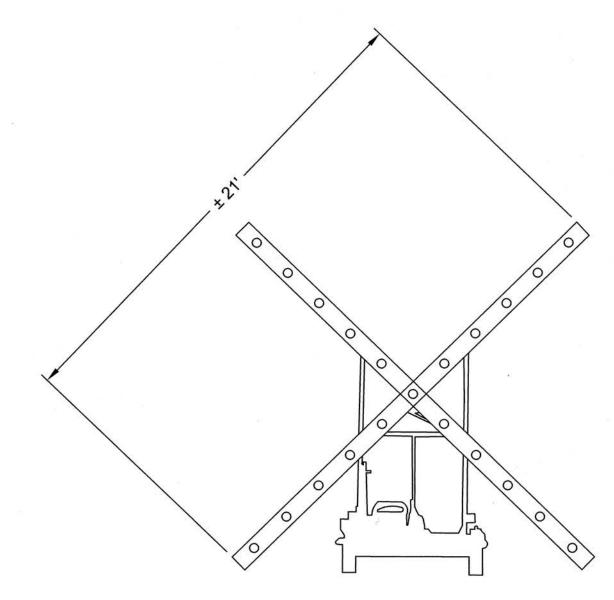








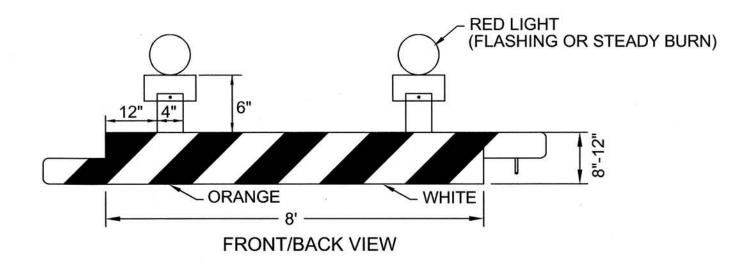




LIGHTED TEMPORARY CLOSED RUNWAY MARKER N.T.S

NOTE

- CONTRACTOR SHALL ERECT LIGHTED TEMPORARY CLOSED RUNWAY MARKERS DURING RUNWAY CONSTRUCTION. MARKERS SHALL BE POSITIONED OVER THE RUNWAY DESIGNATION NUMERALS OR AS DIRECTED BY THE AIRPORT OR ENGINEER.
- LIGHTED TEMPORARY CLOSED RUNWAY MARKERS SHALL CONFORM TO THE REQUIREMENTS OF AC 150/5345-55A.
- LIGHTED TEMPORARY CLOSED RUNWAY MARKERS SHALL BE PLACED INTO POSITION BY THE CONTRACTOR AND MAINTAINED AS INSTRUCTED BY THE ENGINEER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE CLOSED RUNWAY MARKERS, AND INSURE ADEQUATE FUEL IS AVAILABLE FOR CONTINUOUS OPERATION.
- CONTRACTOR SHALL PROMPTLY REMOVE MARKERS WHEN NO LONGER NEEDED OR WHEN SO INSTRUCTED BY THE ENGINEER.
- 5. LIGHTED TEMPORARY CLOSED RUNWAY MARKERS WILL NOT BE MEASURED FOR SEPARATE PAYMENT. PAYMENT WILL BE IN ACCORDANCE WITH SPECIFICATION KSA-105 BARRICADES, LIGHTS, AND CLOSED RUNWAY MARKINGS.



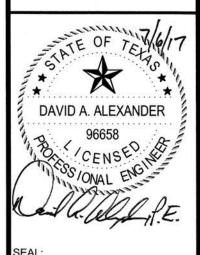
LOW PROFILE INTERLOCKING BARRICADE

N.T.S.

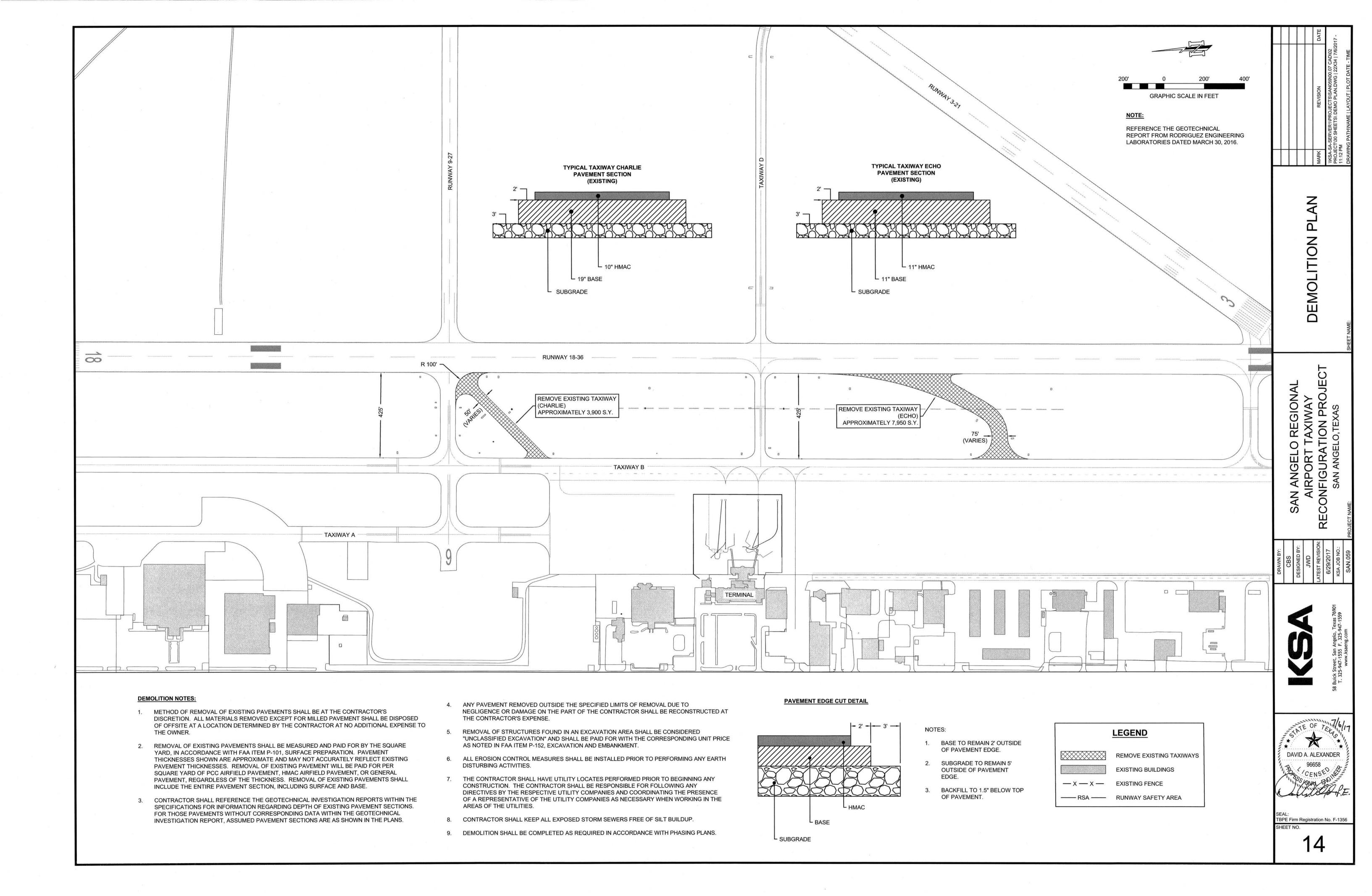
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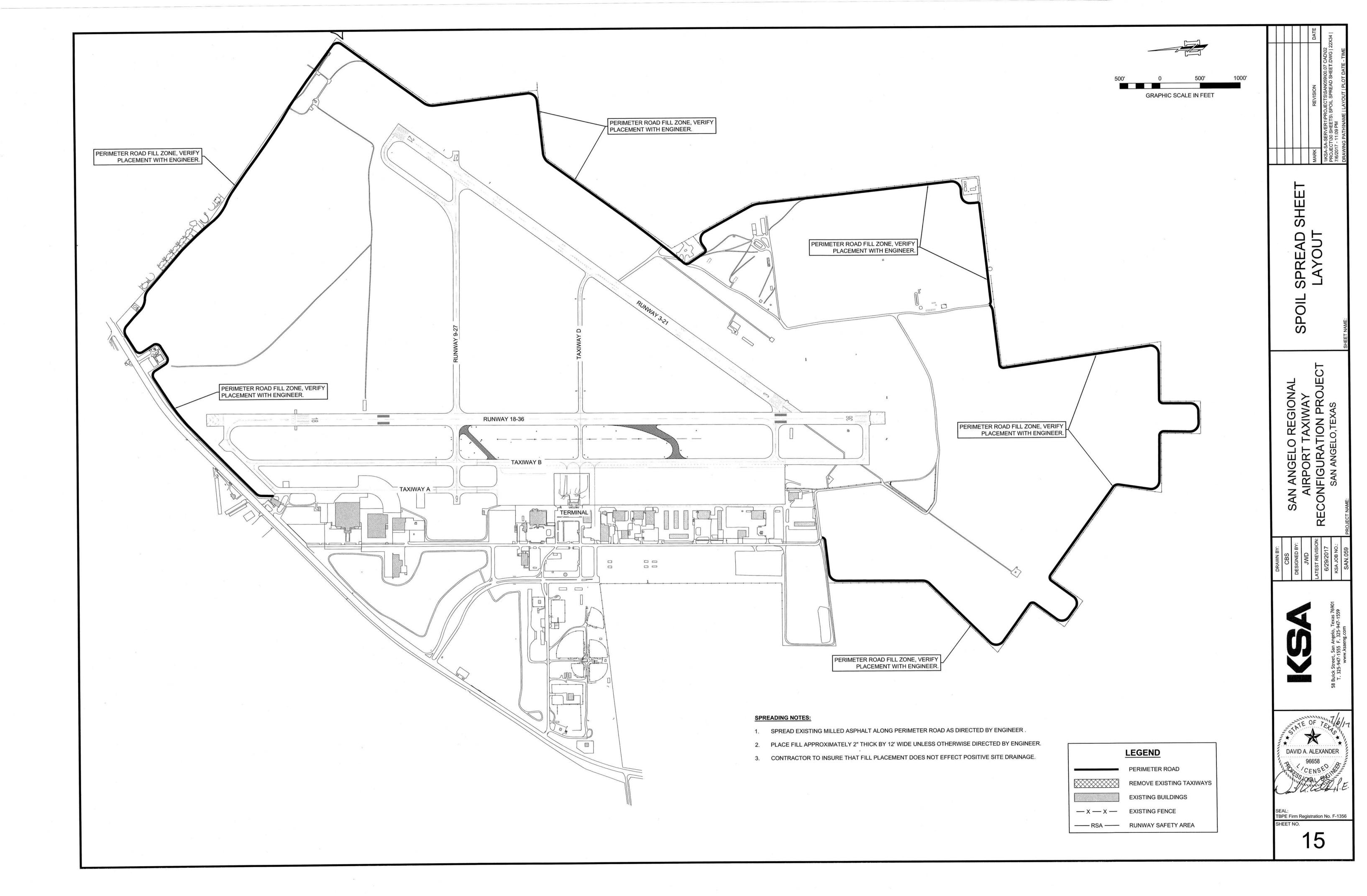
- 1. CONTRACTOR SHALL USE LOW-PROFILE BARRICADES, AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
- 2. BARRICADES SHALL BE INTERLOCKING AND WILL HAVE NO SPACE BETWEEN THEM WHEN INSTALLED.
- 3. BARRICADES SHALL BE EQUIPPED WITH TWO BATTERY OPERATED FLASHING LIGHTS FASTENED TO EACH END. FLASHER UNITS SHALL BE CHECKED AND CHARGED TO ENSURE CONTINUOUS OPERATION THROUGH DARK OR LOW VISIBILITY HOURS.
- PRE-FABRICATED (COMMERCIAL) BARRICADES THAT INTERLOCK CONFORMING TO THE REQUIREMENTS OF AC 150/5370-2F, ARE THE ONLY APPROVED BARRICADES FOR THIS PROJECT.
- 5. FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE ON THREE SIDES OF BARRICADE.
- 6. LOCATIONS FOR TEMPORARY BARRICADES ARE SHOWN IN THE PHASING PLAN. LOCATIONS FOR BARRICADES SHOWN IS A MINIMUM. CONTRACTOR SHOULD MAKE HIS OWN DETERMINATIONS AS TO LOCATION OF ADDITIONAL BARRICADES TO PROTECT WORK AND TO CONTROL THE FLOW OF AIRPLANE TRAFFIC.

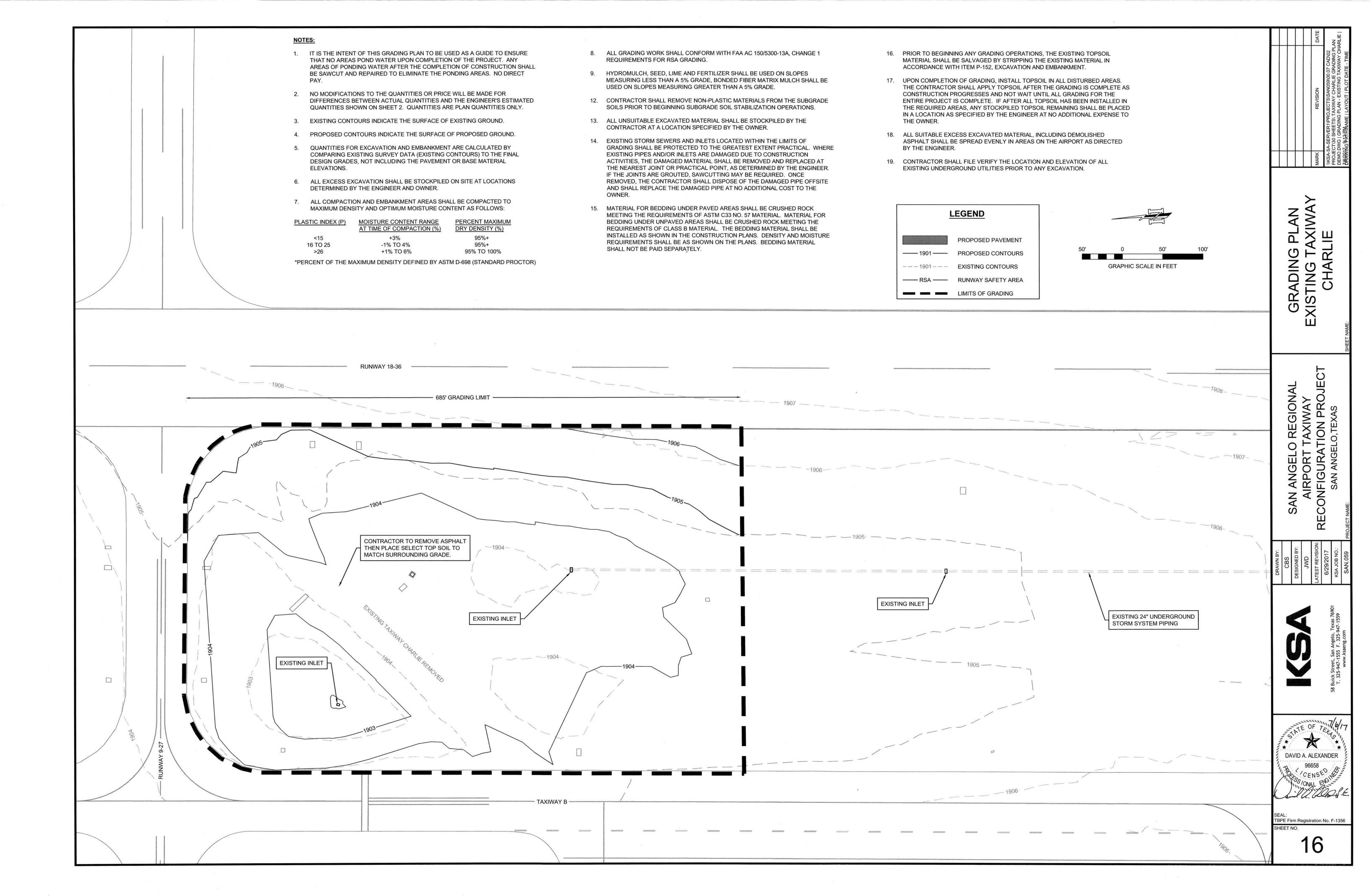
HASING PLAN DETAILS



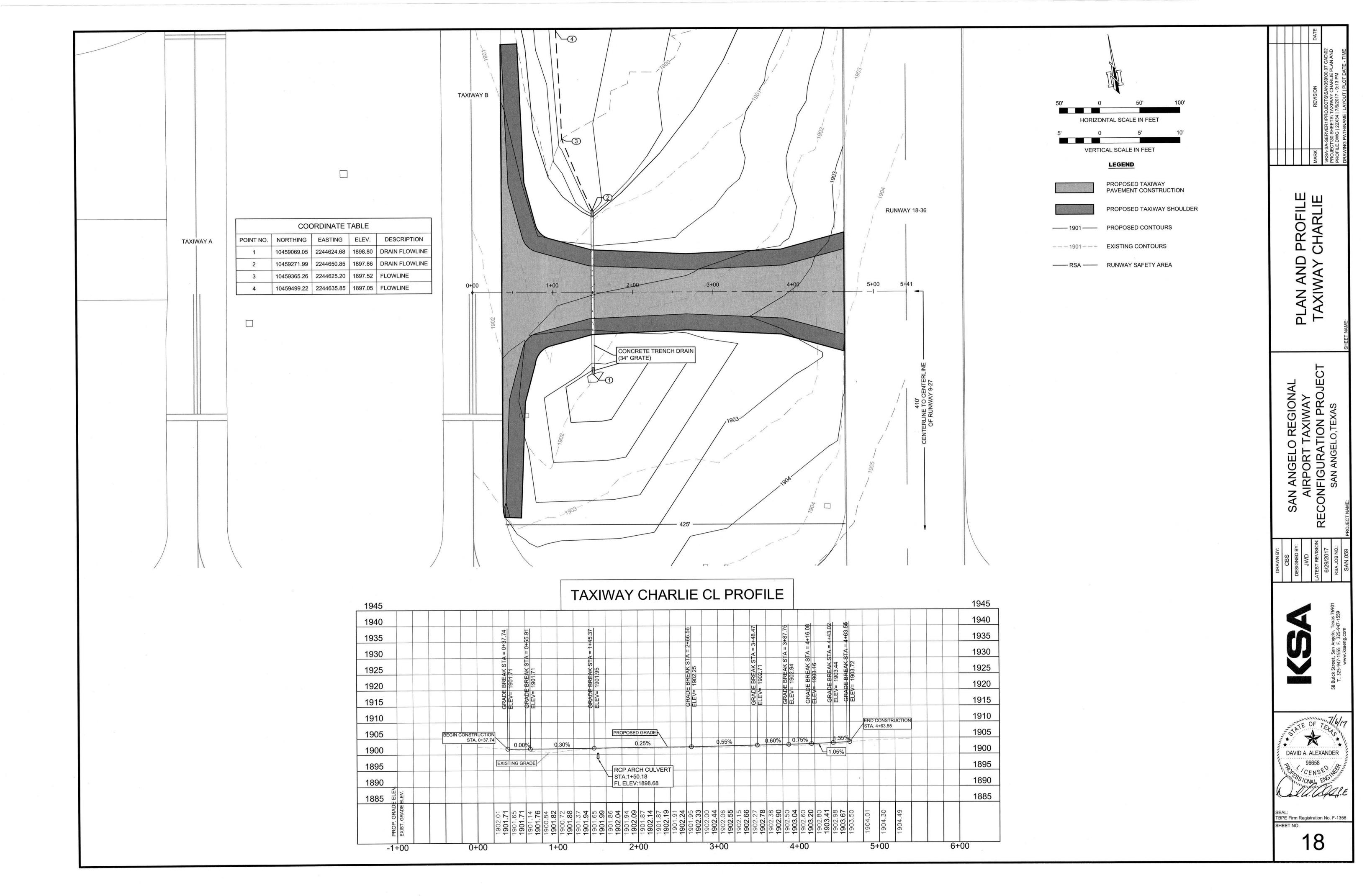
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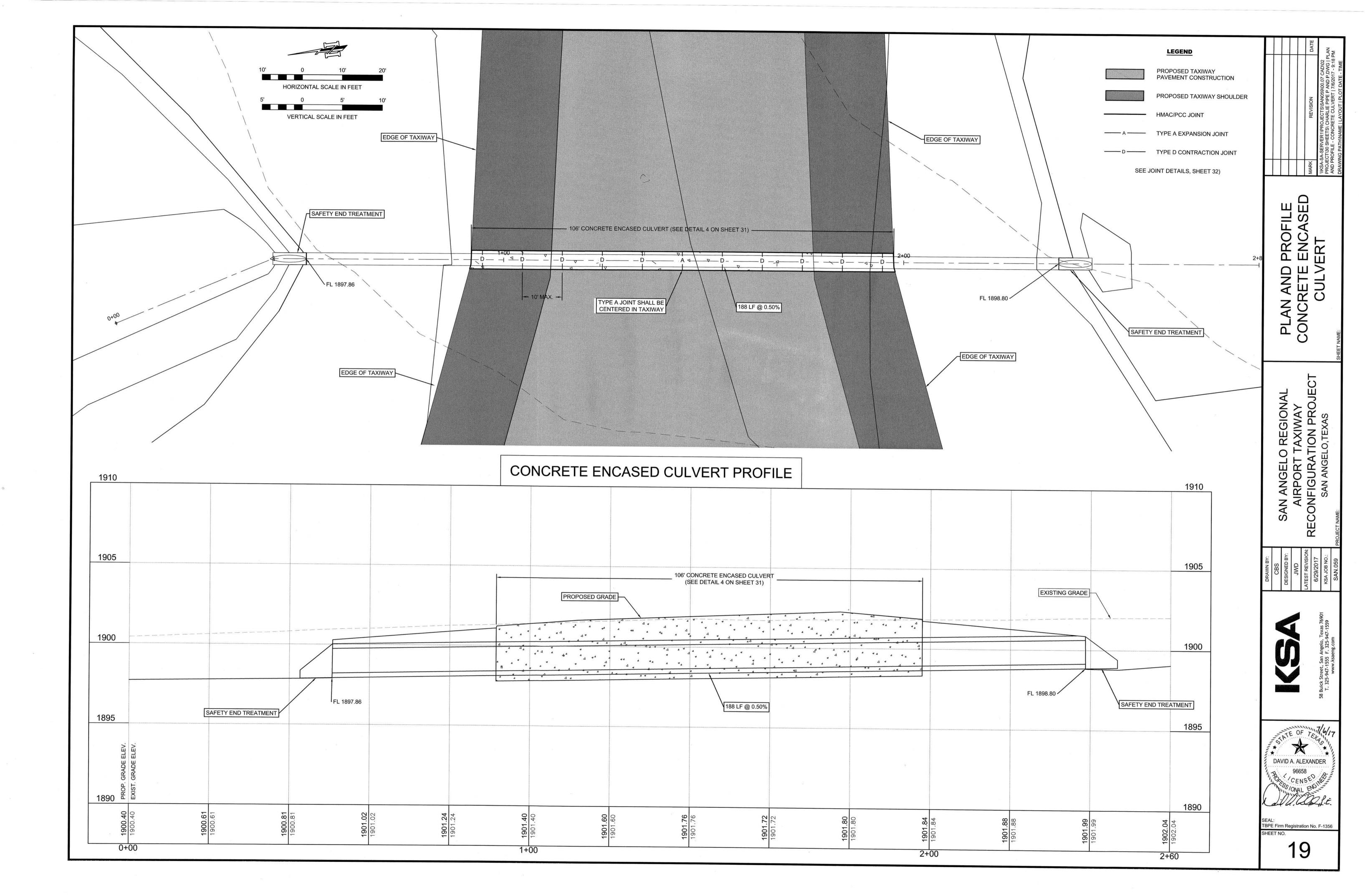


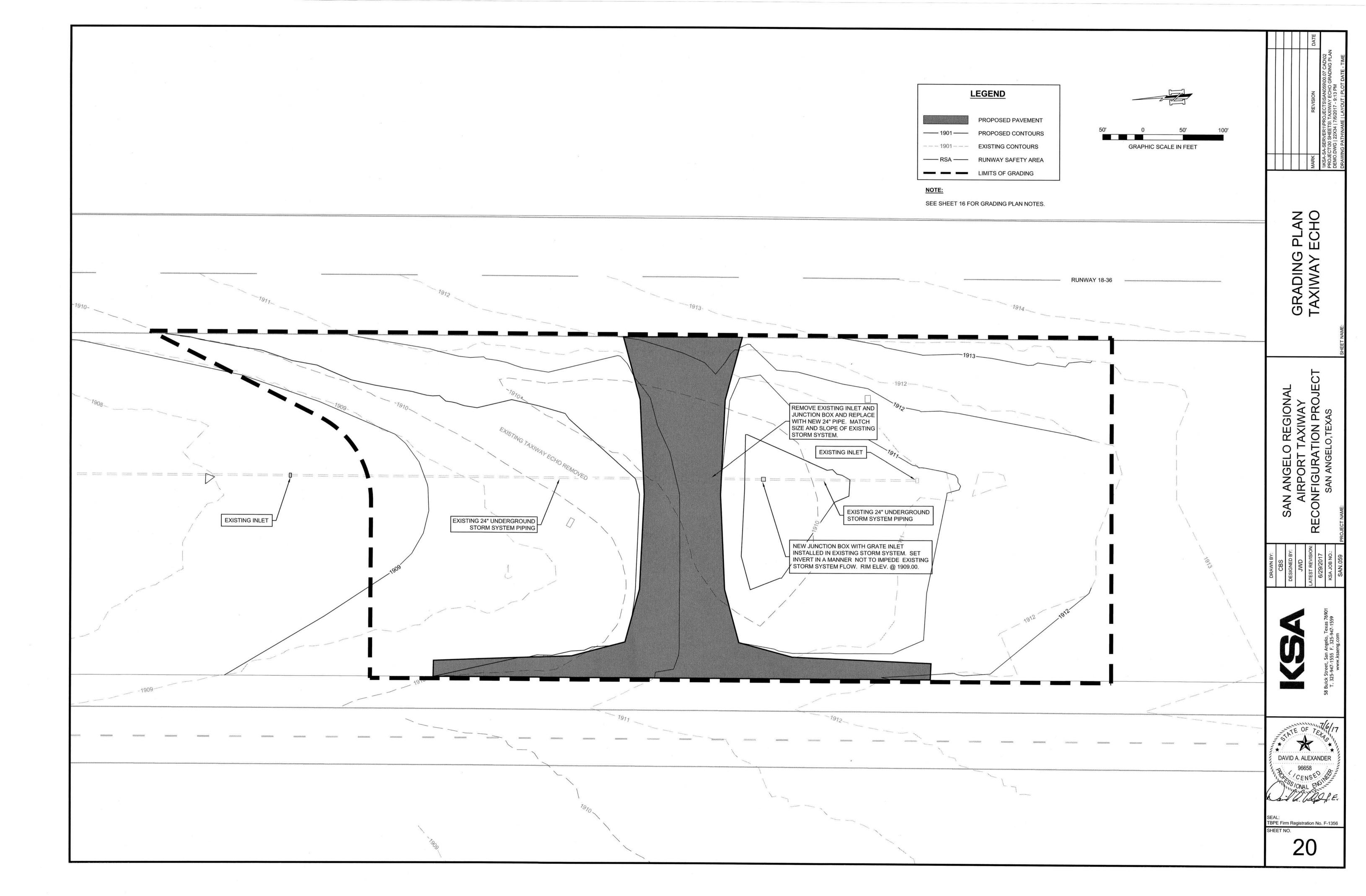


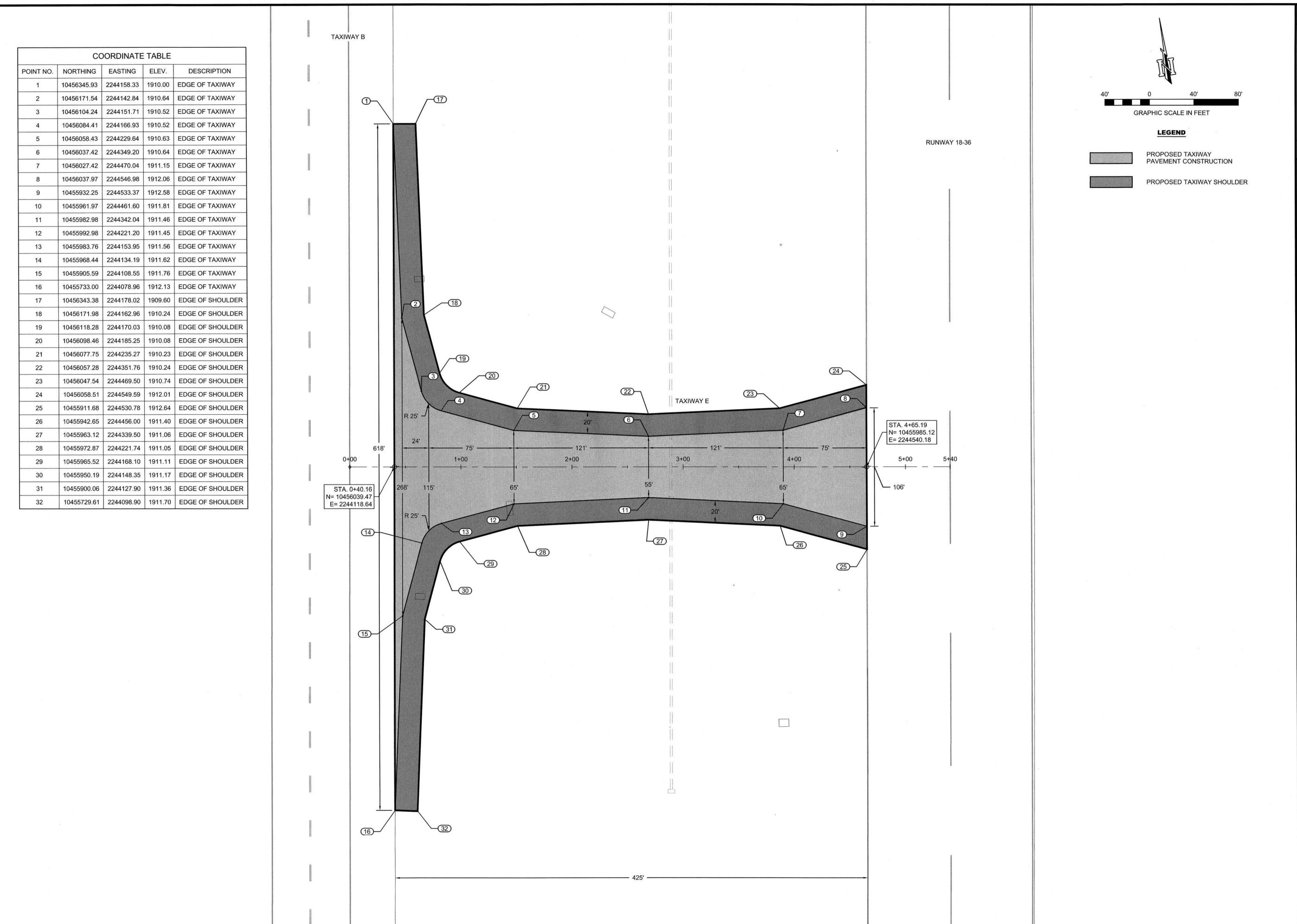


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SAN ANGELO REGIONAL
AIRPORT TAXIWAY
CONFIGURATION PROJECT
SAN ANGELO, TEXAS

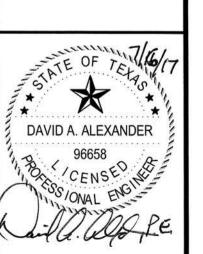
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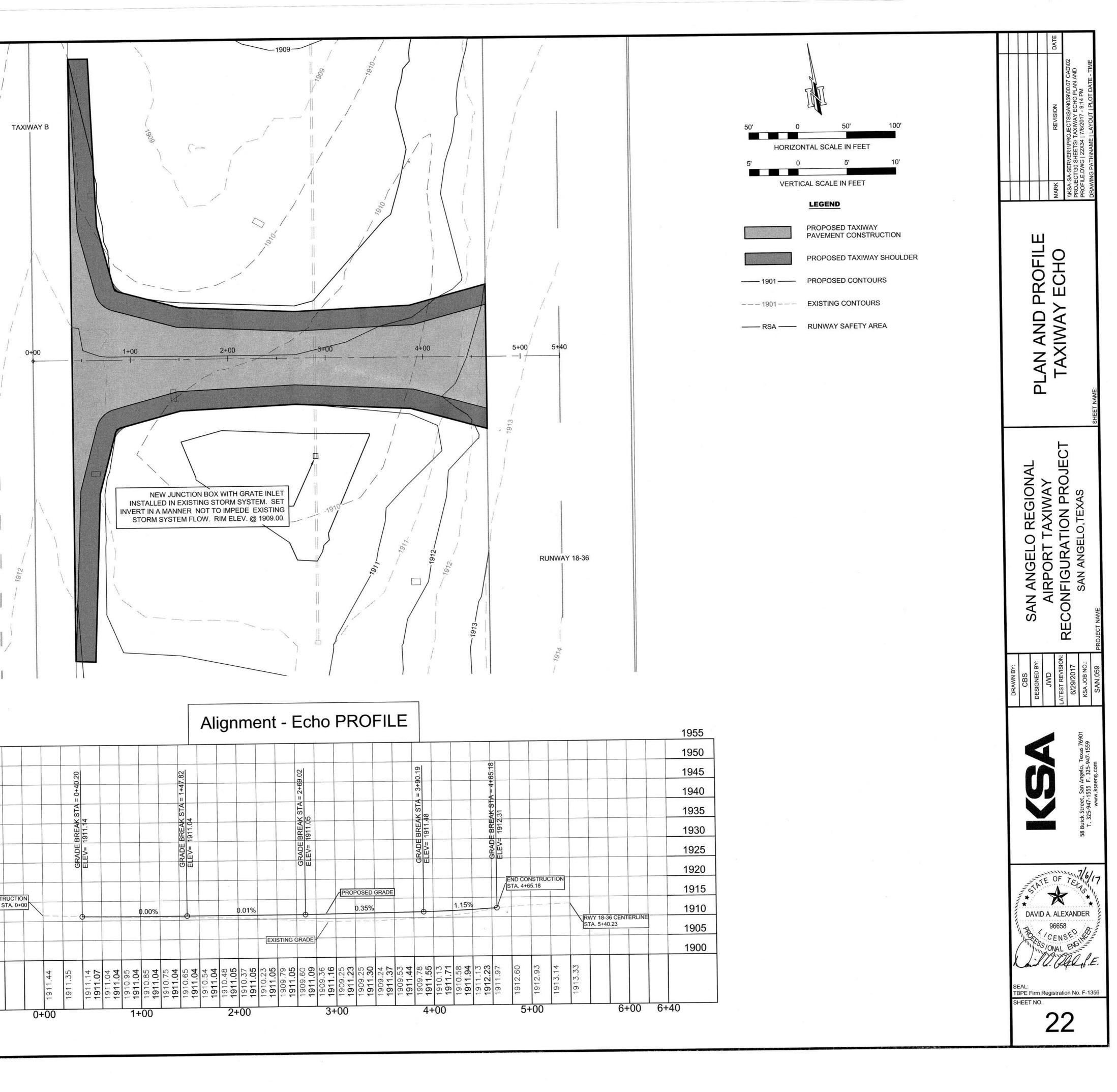
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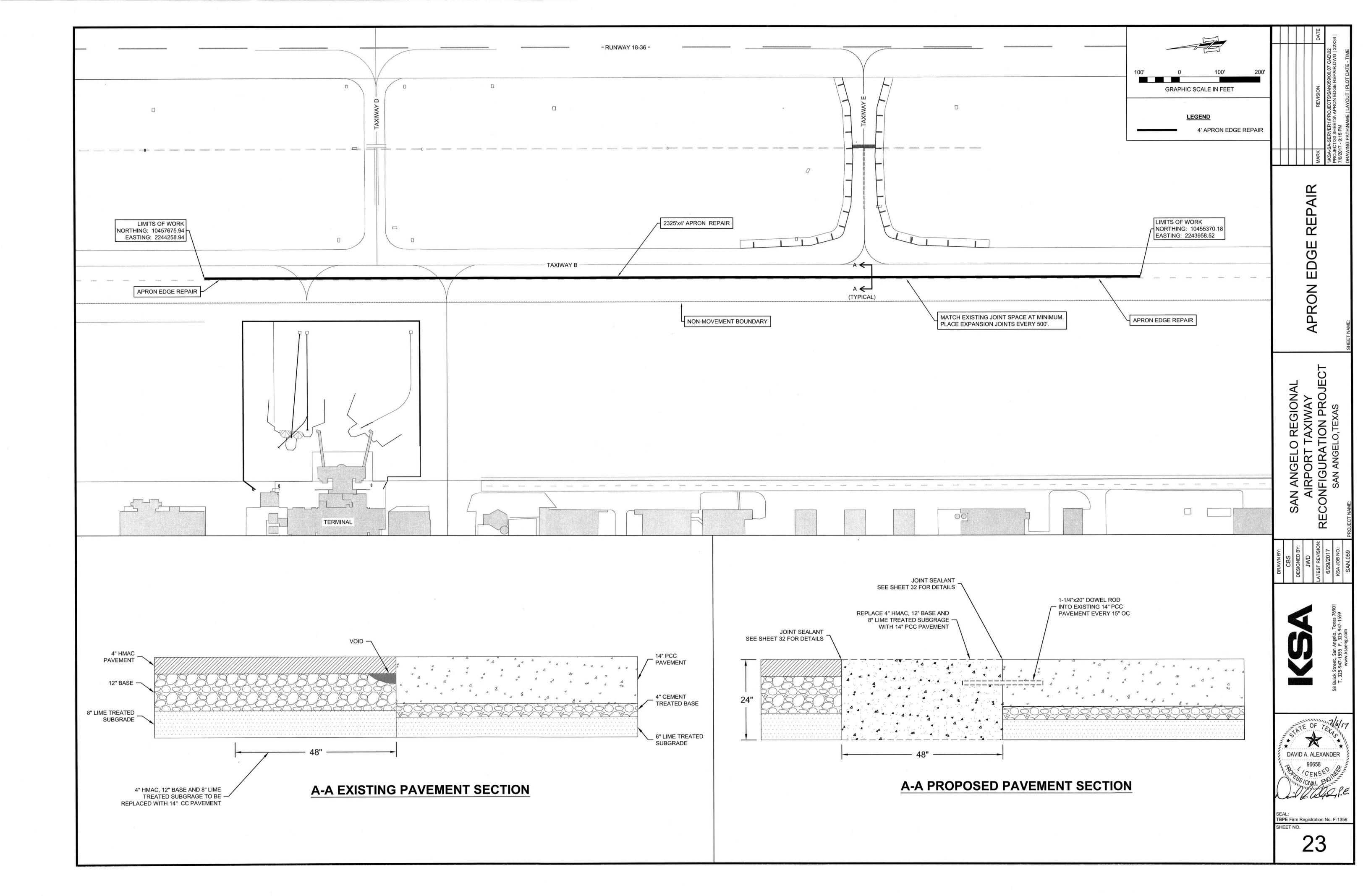
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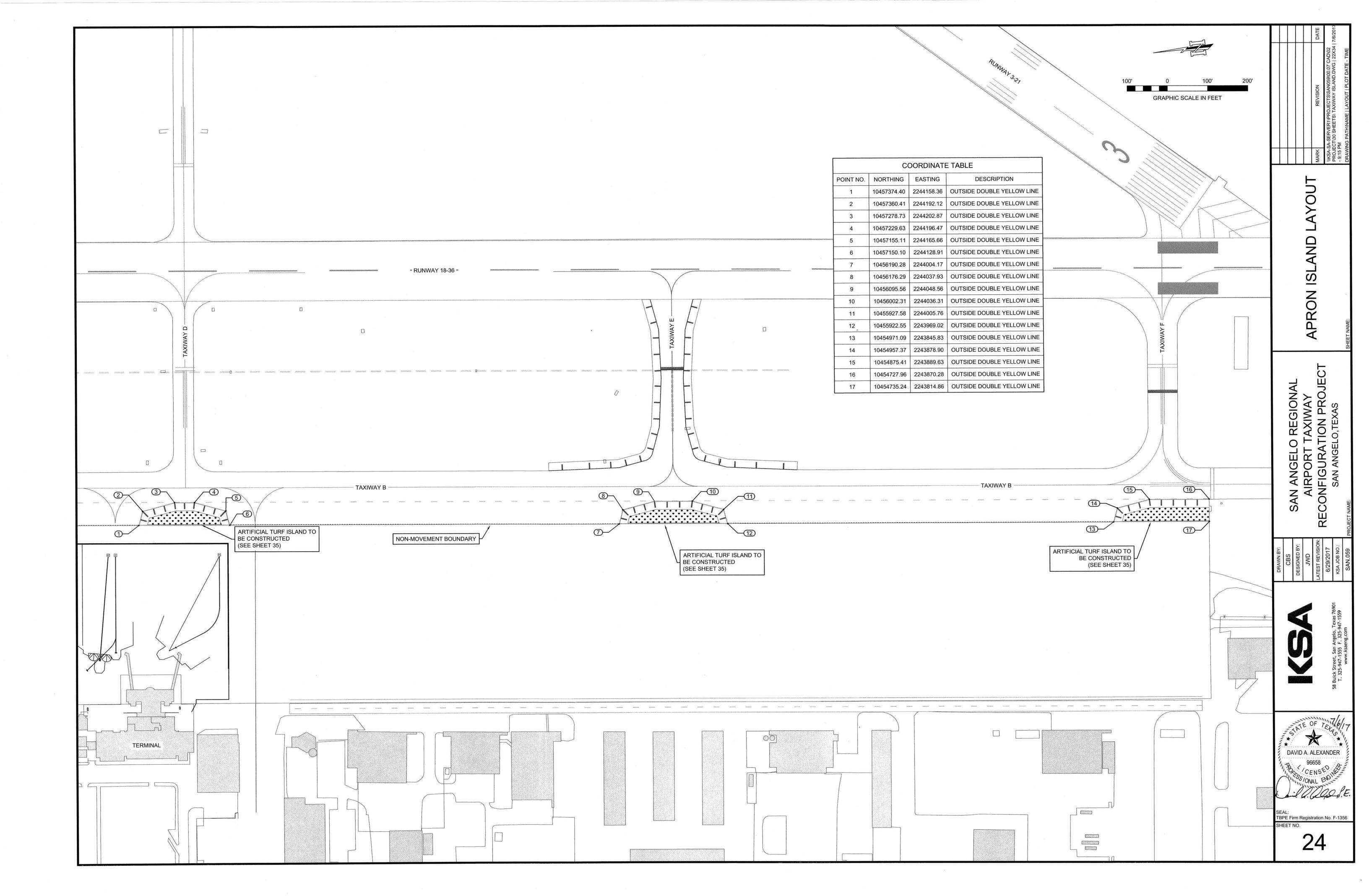
Buick Street, San Angelo, Texas 76901 T. 325-947-1555 F. 325-947-1559 www.ksaeng.com

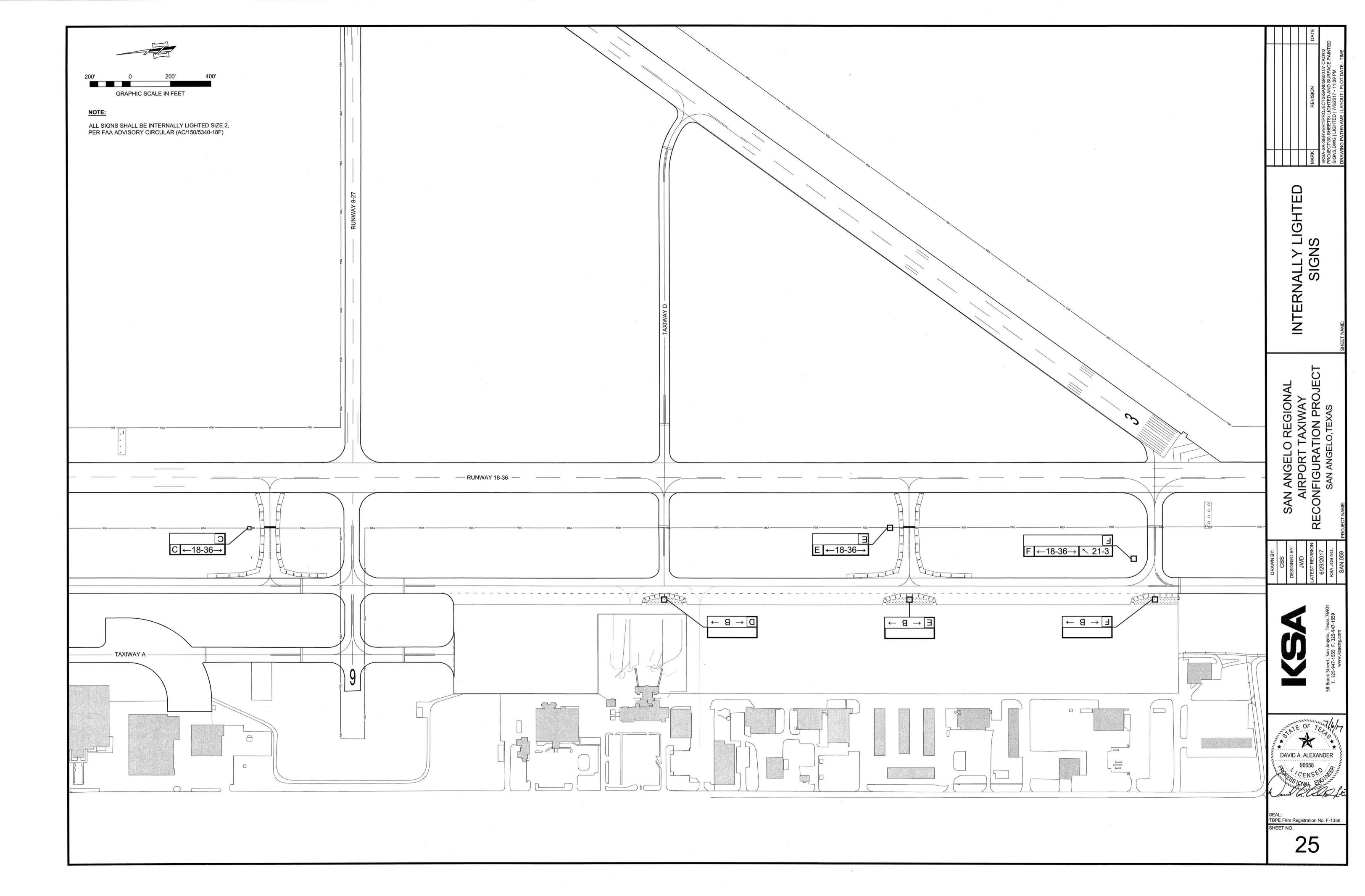


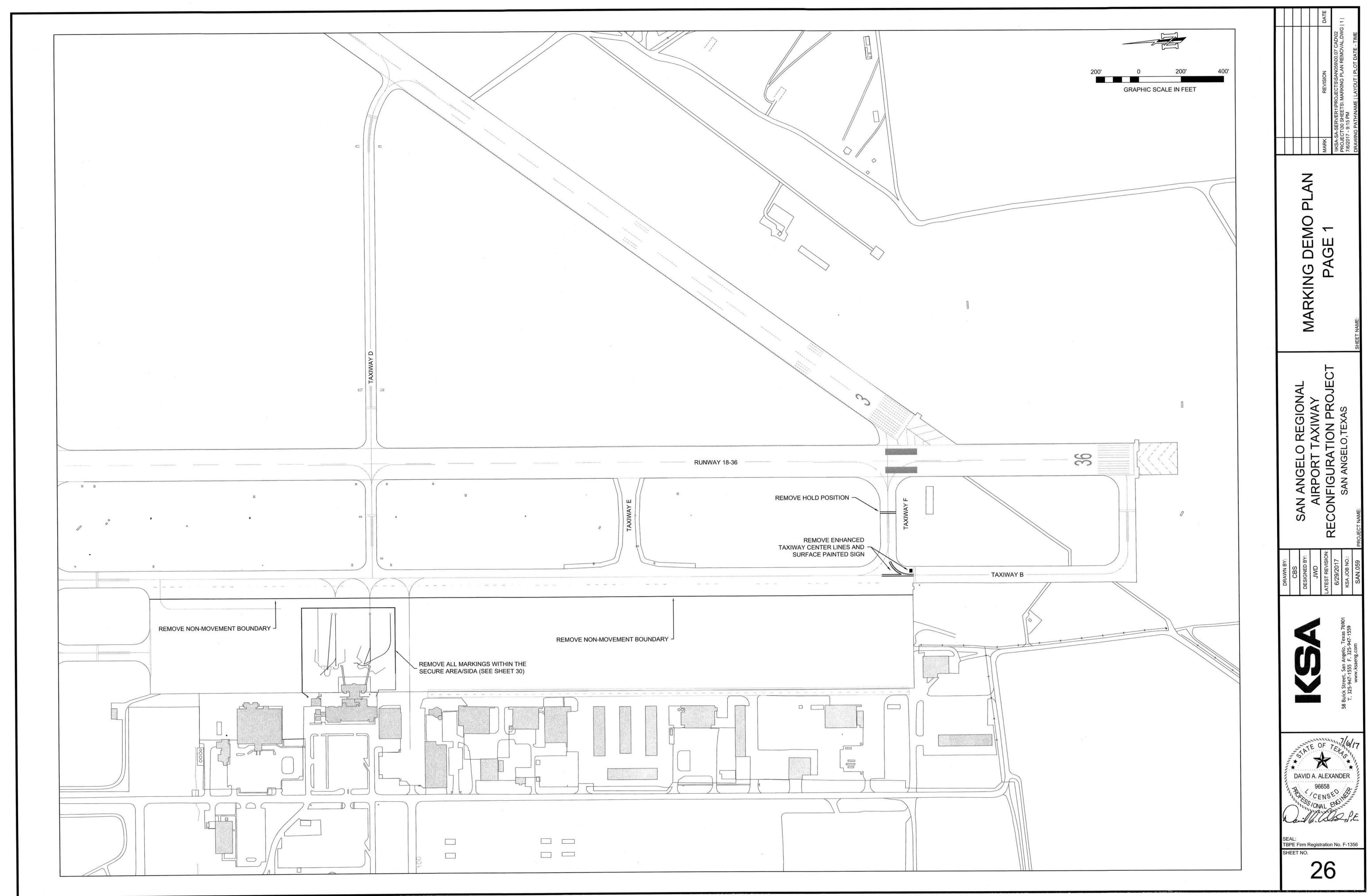
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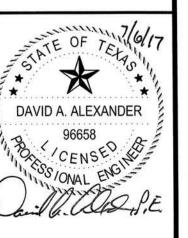


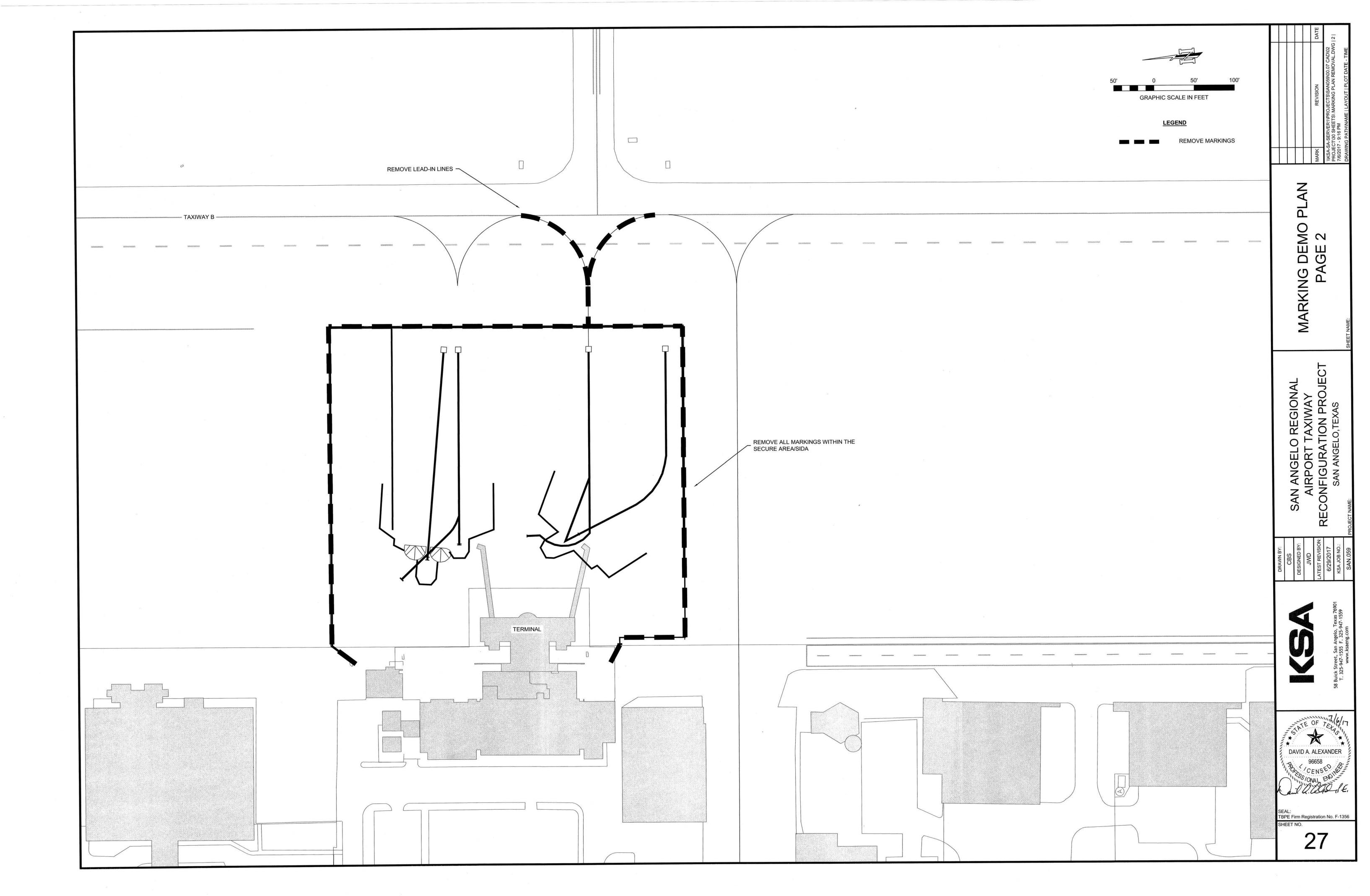


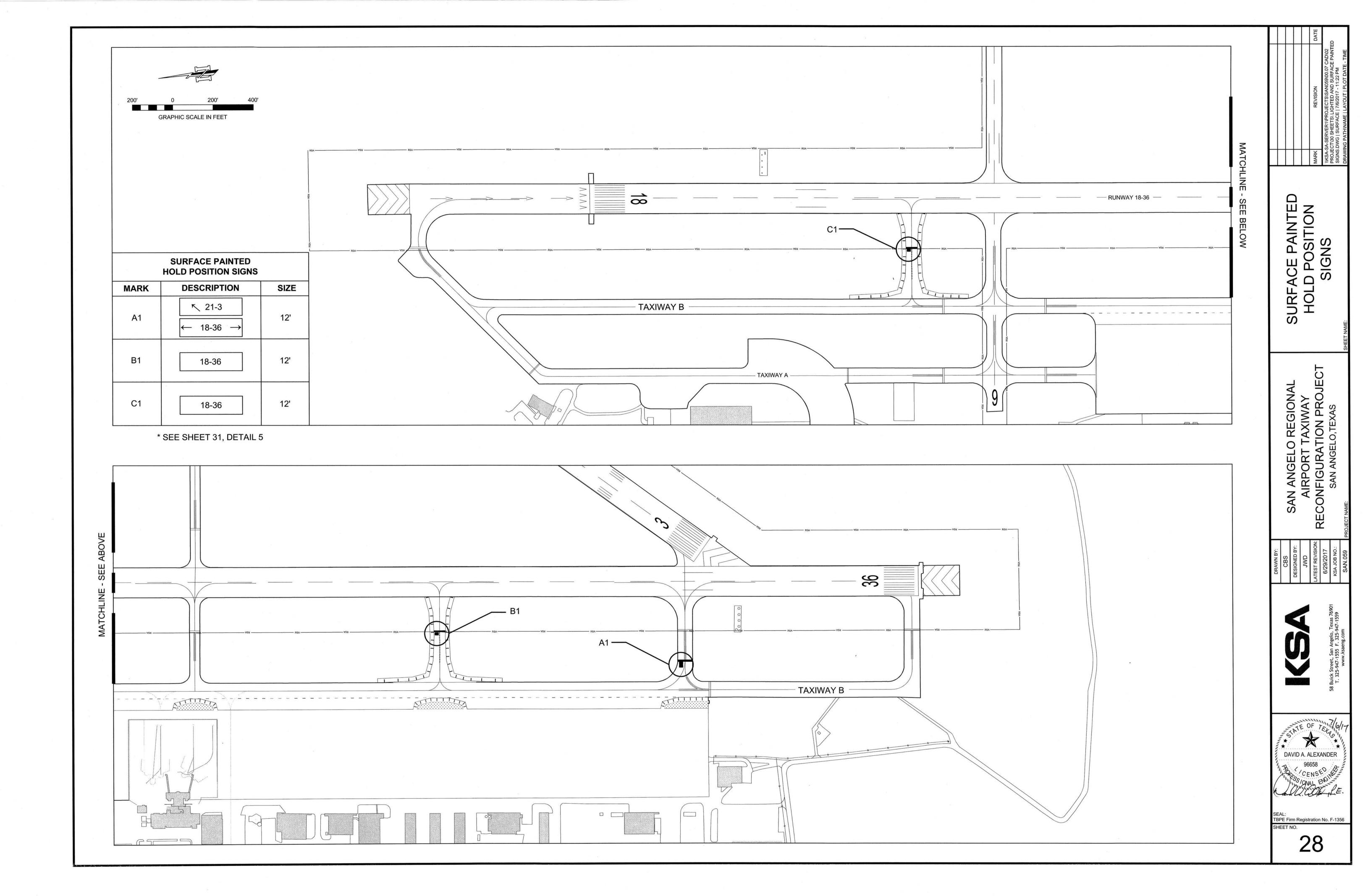


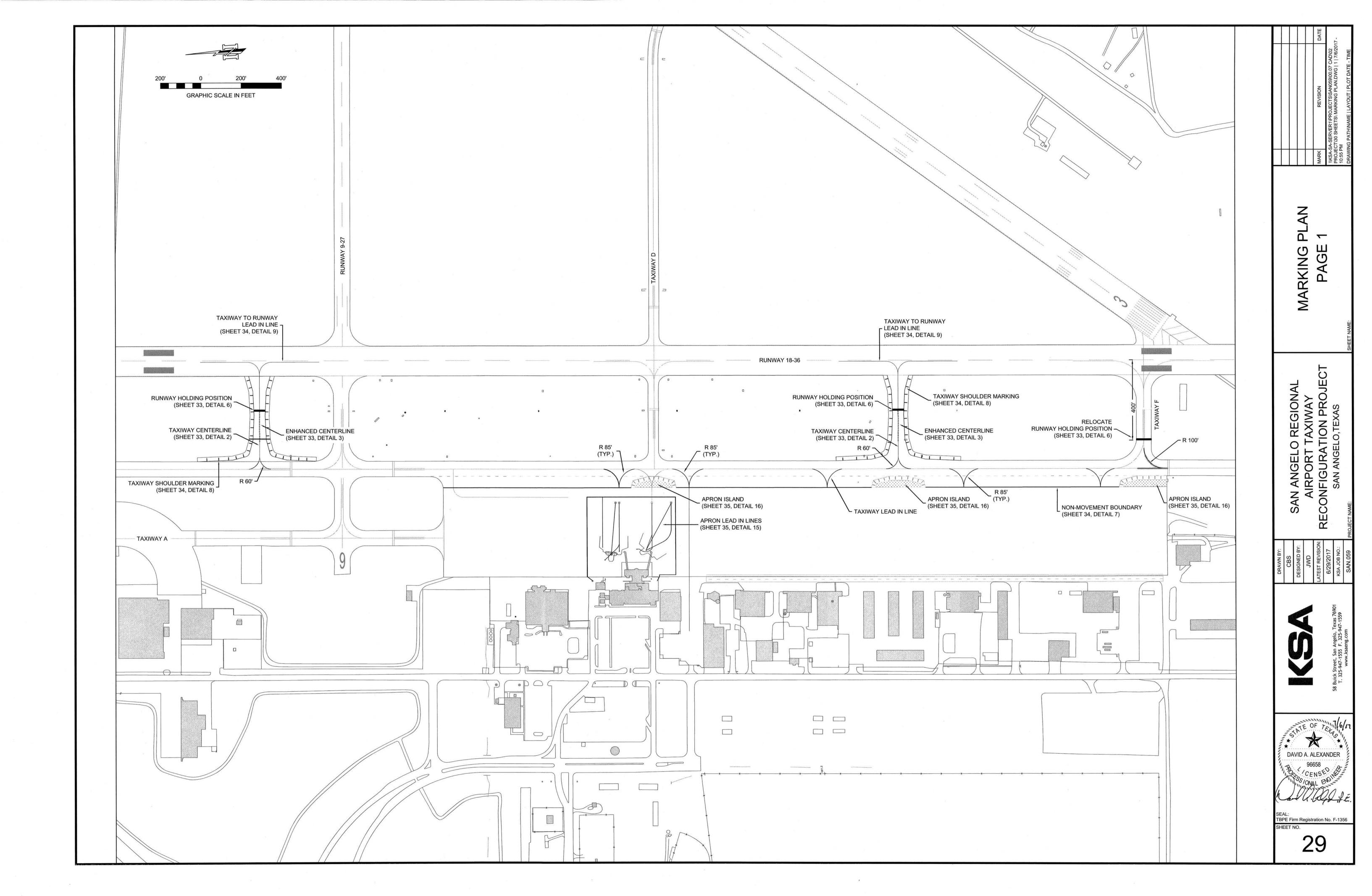




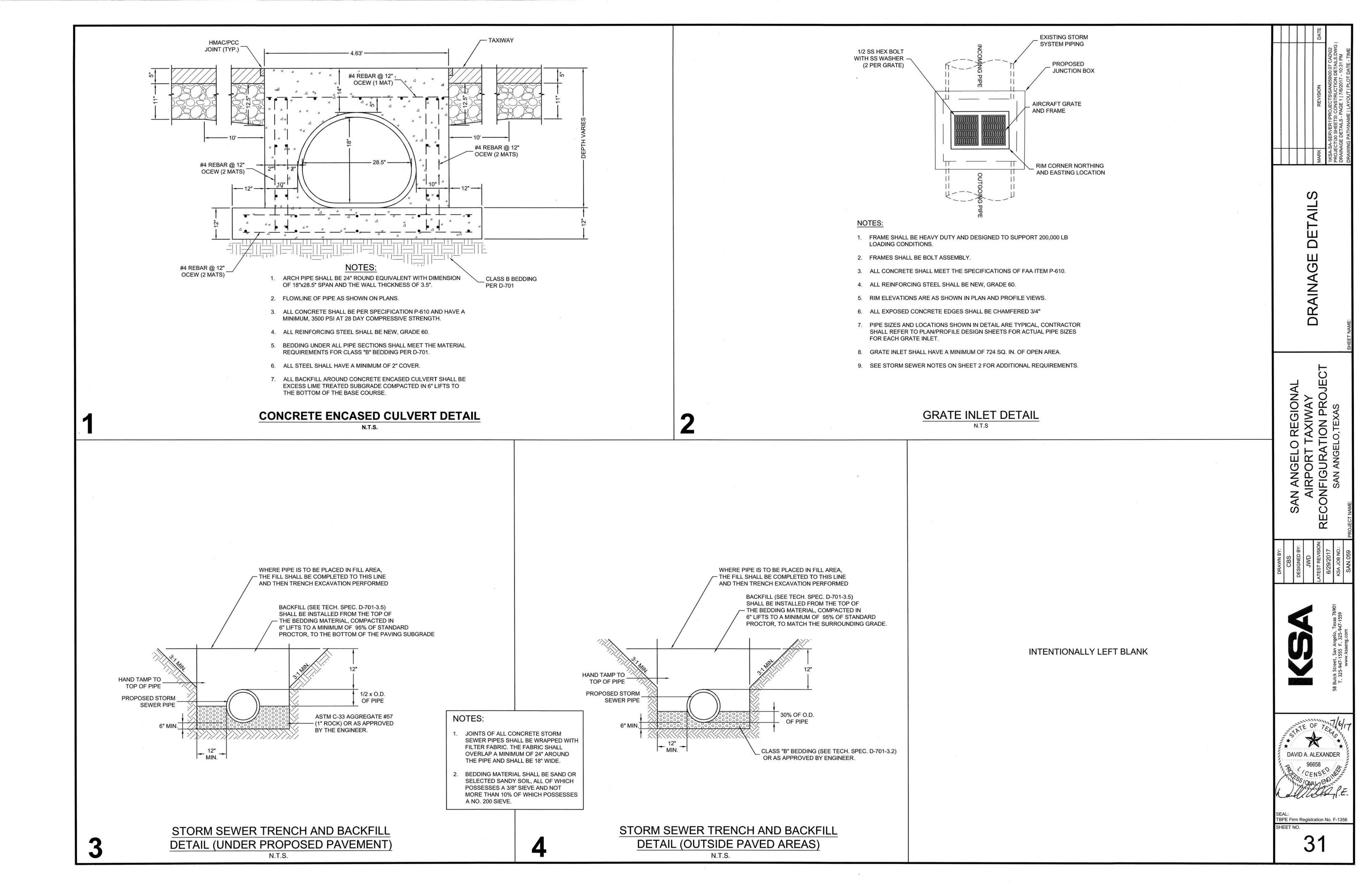


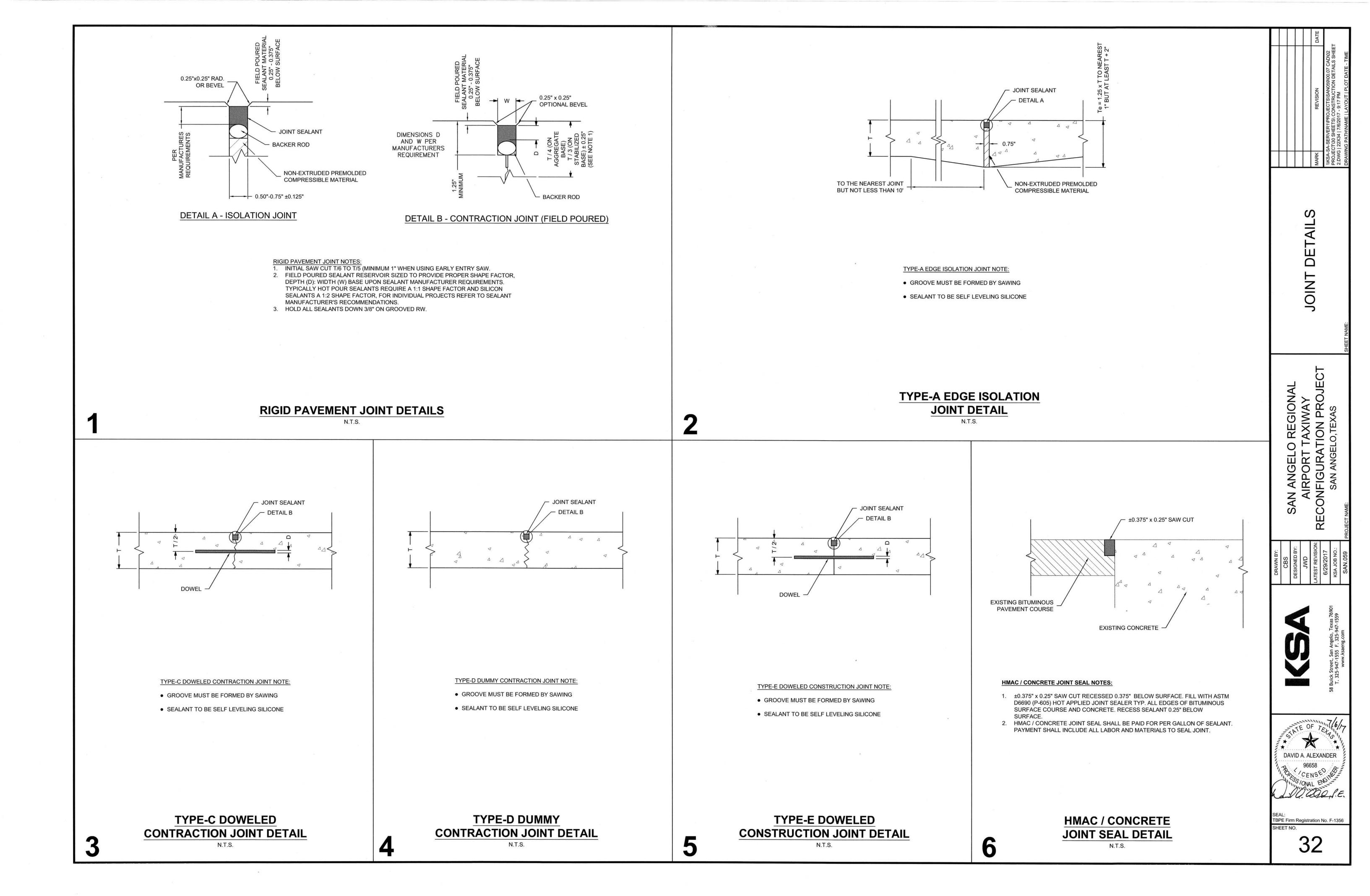






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6. PREPARATION OF EXISTING SURFACES: A. MIMEDIATELY SEFORE APPLICATION OF THE PAINT, THE EXISTING SURFACE SHALL BE DRY AND ENTIRELY FREE FROM DIRT, GREASE, OIL, ACIDS, OR OTHER FOREIGN MATTER THAT WOULD REDUCE THE BOND BETWEEN THE COAT OF PAINT AND THE PAVEMENT. B. SURFACE SHALL BE THOROUGHLY CLEANED AS REQUIRED TO REMOVE ALL DIRT AND LOOSE MATERIALS. THE OWNER SHALL APPROVE CONDITIONS OF THE SURFACE PROVIDE TO THE SURFACE PROVIDE TO PAINT C. EXISTING MARKING OR STRIPES TO BE ABANDONED OR REMOVED SHALL BE OBLITERATED BY WATER BLASTING OR OTHER APPROVE CONTROL OF THE PAINT SHALL BE MILE AND THAT THE ADDITION OF THE PAINT SHALL BE MILE ADDITION OF THE PAINT SHALL BE ADDITION OF THE PAINT SHALL BE MILE ADDITION OF THE PAINT SHALL BE ADDIT	ARKING WARKING WASA-SERVER10 WARKING WASA-SERVER10 WARKING WARKING
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4) CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO THE PAVEMENT, SURFACE TEXTURE, JOINT SEALANT, OR APPURTENANCES CAUSED BY THE REMOVAL WORK. METHODS TO REPAIR DAMAGES SHALL BE ACCEPTABLE TO THE CITY. ANY MATERIAL NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS OR PLANS THAT HAS BEEN DELIVERED TO THE ANY MATERIAL NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS OR PLANS THAT HAS BEEN DELIVERED TO THE ANY MATERIAL NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS OR PLANS THAT HAS BEEN DELIVERED TO THE ANY MATERIAL NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS OR PLANS THAT HAS BEEN DELIVERED TO THE PROJECT OR INCORPORATED IN THE WORK, OR ANY WORK PERFORMED THAT IS OF INFERIOR QUALITY, SUCH MATERIAL OR WORK 15 10457532.08 2243819.48 APRON MARKING SHALL BE CONSIDERED DEFECTIVE AND SHALL BE CORRECTED BY THE OWNER OR ENGINEER, AT THE EXPENSE OF THE SHALL BE CONSIDERED DEFECTIVE AND SHALL BE CORRECTED BY THE OWNER OR ENGINEER, AT THE EXPENSE OF THE	ARKING C
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D. PAINT SHALL NOT BE APPLIED TO NEW PORTLAND CEMENT CONCRETE PAVEMENT UNTIL THE CONCRETE IN THE AREAS TO BE 11. REFLECTIVE MEDIA SHALL MEET FEDERAL SPECIFICATIONS TT-B-1325D, TYPE III, AND SHALL BE TREATED WITH COMPATIBLE AGENTS 17. 10457514.69 2243806.74 APRON MARKING APPROVE CURING MATERIAL SANDRIAGE CONCRETE IN THE AREAS TO BE 18. REFLECTIVE MEDIA TO ENSURE PROPER ADJUSTAND REFLECTIVE PR	— I = a
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ENGINEER'S SATISFACTION. UPON APPLICATION TO PROPERLY PREPARED SURFACES AFTER CURING, THE PAINT SHALL NOT BLEED 5. SWARCO (swarco.com) MPN: 2/9/ EXCESSIVELY, BLISTER, PEEL, CURL OR DISCOLOR. 12. REFLECTIVE MEDIA SHALL BE APPLIED AT A MINIMUM RATE OF 10 LBS/GAL. ENSURE REFLECTIVE MEDIA APPLICATION IS DISTRIBUTED 20. 10457486.90 2243844.57 APRON MARKING 52. 10457333.08 2243825.65 APRON MARKING	— I 1
7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINTING AND SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO APPLYING PAINT. THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED TECHNICIAN TO SUPERVISE THE LOCATION, ALIGNMENT, LAYOUT, DIMENSIONS AND APPLICATION OF THE PAINT. SINGLE STRIPES SHALL BE APPLIED 5. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINTING AND SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO APPLYING PAINT. THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED TECHNICIAN TO SUPERVISE THE LOCATION, ALIGNMENT, LAYOUT, DIMENSIONS AND APPLICATION OF THE PAINT. SINGLE STRIPES SHALL BE APPLIED 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINTING AND SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO APPLYING PAINT. THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED TECHNICIAN TO SUPERVISE THE LOCATION, ALIGNMENT, LAYOUT, DIMENSIONS AND APPLICATION OF THE PAINT. SINGLE STRIPES SHALL BE APPLIED 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCOMPLISHED WELL IN ADVANCE OF PAINT AS REQUIRED. 7. ALL STRIPES SHALL BE ACCURATELY SURVEYED AND LAYOUT ACCURAT	RKING
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END OF LINE GATE I.D. (SHEET 35, DETAIL 13)	N O
MARK NEW, RECONFIGURED LEAD 56	<u> </u>
NOTE: IN LINE MARKINGS FOR GATE 1	
POINT #35 - CURVED RADIUS 13.5' POINT #36 - CURVED RADIUS 13.5'	WN BY: BS WD WD WD WZO17
POINT #54 - CURVED RADIUS 74' SECURE AREA/SIDA MARKING (SHEET 34, DETAIL 10) LEAD-IN LINES (SHEET 35, DETAIL 15)	DRA C DESIG J J SAZEST 6/28
(SHEET 35, DETAIL 15)	
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54 EXISTING MARKING	xas 769
RE-MARK ALL LEAD IN LINE MARKINGS FOR GATE 2 26	jelo, Te
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GRAPHIC SCALE IN FEET	MANAGEN STATES
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	SEAL: TBPE Firm Registration No. F-13
	SHEET NO.
	30





PAVEMENT MARKING GENERAL NOTES:

- 1. ALL RUNWAY STRIPING, INCLUDING RUNWAY DESIGNATION, CENTERLINE, AIMING POINT, TOUCHDOWN ZONE, AND THRESHOLD BARS, SHALL BE WHITE RETROREFLECTIVE PAINT AS PER SPECIFICATIONS.
- 2. ALL TAXIWAY STRIPING, INCLUDING HOLD POSITION MARKINGS AND TAXIWAY CENTERLINE, SHALL BE YELLOW RETROREFLECTIVE PAINT AS PER
- 3. PAINT SHALL CONFORM TO FEDERAL SPECIFICATIONS TT-P-1952 (WATER BASED) AND SHALL BE APPLIED AT THE RATE OF 105 TO 115 SQUARE FEET PER GALLON.
- 4. REFLECTIVE MEDIA SHALL BE HIGH INDEX OF REFRACTION GLASS SPHERES CONFORMING TO FEDERAL SPECIFICATIONS TT-B-1325, TYPE I, GRADE A AND SHALL BE APPLIED AT THE RATE OF 12 POUNDS PER GALLON OF PAINT MINIMUM.
- 5. HOLD ALL DIMENSIONS FOR STRIPING FROM THE CENTERLINE OF RUNWAY OR TAXIWAY (AS APPLICABLE).

PAVEMENT MARKING NOTES

TAXIWAY &

BACKGROUND

TAXIWAY CENTERLINE MARKING DETAIL

BLACK MARKING

TAXIWAY CENTERLINE MARKING NOTES:

PAINT REQUIREMENTS.

1. TAXIWAY CENTERLINE MARKINGS SHALL BE YELLOW

2. SEE PAVEMENT MARKINGS GENERAL NOTES FOR

TAXIWAY &

BLACK MARKING

BORDER

TAXIWAY CENTERLINE

WITH BLACK BORDER

TAXIWAY 4 **AIRCRAFT HOLDING SIDE**

TAXIWAY &

TAXIWAY CENTERLINE

WITHOUT BLACK BORDER

SURFACE PAINTED HOLDING POSITION SIGNS FOR TAXIWAYS ≥ 35' MARKING NOTES: 1. INSCRIPTIONS FOR SURFACE PAINTED HOLDING POSITION SIGNS FOR

- TAXIWAYS ≥ 35' MARKINGS SHALL BE WHITE WITH RED BACKGROUND. 2. ENHANCED TAXIWAY CENTERLINE AND HOLD POSITION BAR MARKINGS SHALL
- BE YELLOW. SEE MARKING DETAILS.
- 3. SEE PAVEMENT MARKINGS GENERAL NOTES FOR PAINT REQUIREMENTS.

SURFACE PAINTED HOLDING POSITION SIGNS FOR TAXIWAYS ≥ 35' MARKING DETAIL

N.T.S.

RUNWAY HOLDING POSITION MARKING DETAIL N.T.S.

2.5' (3 LINES AND 4 SPACES AT 6" EACH) **BLACK MARKING BACKGROUND**

ENHANCED TAXIWAY CENTERLINE MARKING NOTES:

TAXIWAY &

- 1. ENHANCED TAXIWAY CENTERLINE MARKINGS SHALL BE YELLOW WITH SOLID MIDDLE STRIPE AND 9' LONG, 6" WIDE DASHED LINES WITH 4' GAPS ON EITHER SIDE.
- 2. SEE PAVEMENT MARKINGS GENERAL NOTES FOR PAINT REQUIREMENTS.

ENHANCED TAXIWAY CENTERLINE MARKING DETAIL

DISTANCE TO RUNWAY CENTERLINE 7' (4 LINES AND 3 SPACES AT 1' EACH) TAXIWAY & STRIPE 6" GAP TAXIWAY EDGE STRIPES -

INTENTIONALLY LEFT BLANK

REC(

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MARKING

TBPE Firm Registration No. F-1356

YELLOW. SEE MARKING DETAILS.

REQUIREMENTS.

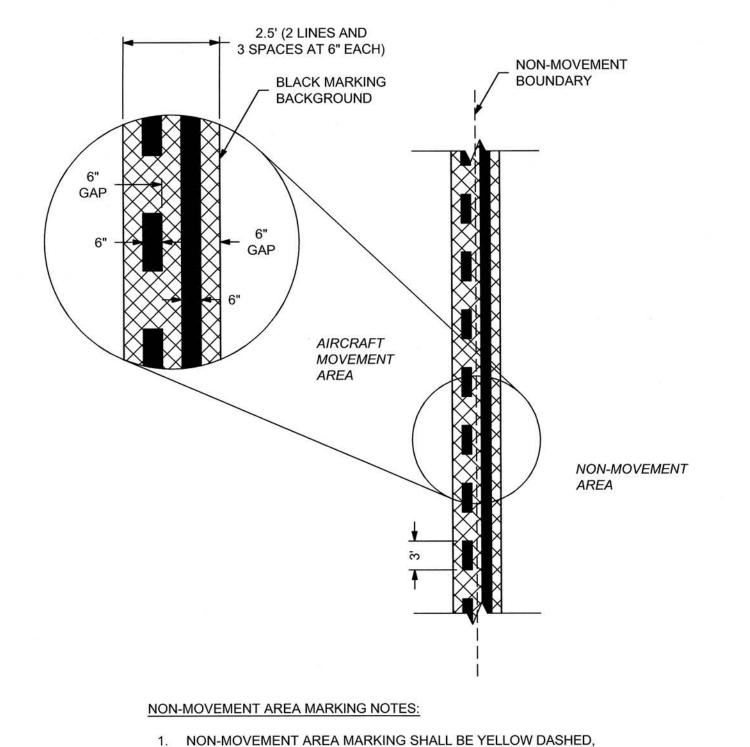
EDGE OF PAVEMENT

RUNWAY HOLDING POSITION MARKING NOTES:

1. RUNWAY HOLDING POSITION MARKING SHALL BE YELLOW, 3' LONG, 1' WIDE WITH 3' GAPS ON RUNWAY SIDE AND TWO SOLID, 1' WIDE STRIPES ON AIRCRAFT HOLDING SIDE.

3. SEE PAVEMENT MARKINGS GENERAL NOTES FOR PAINT

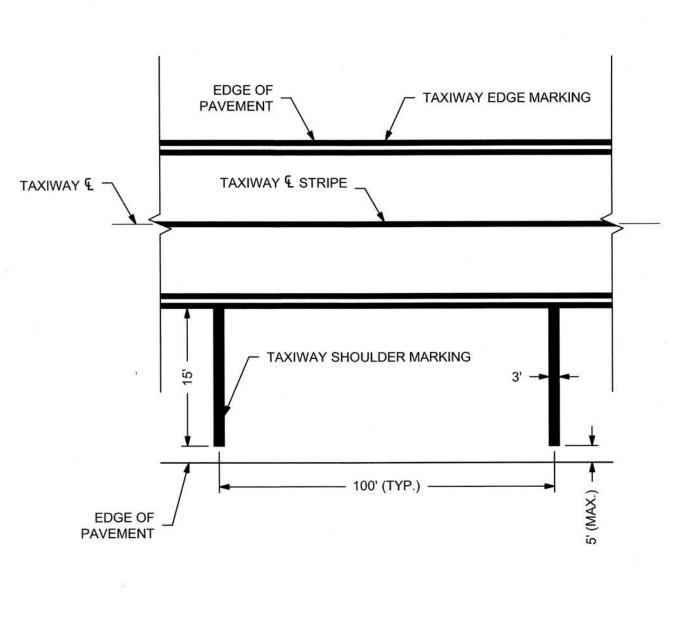
2. TAXIWAY EDGE AND CENTERLINE MARKINGS SHALL BE



- 1. NON-MOVEMENT AREA MARKING SHALL BE YELLOW DASHED, 3' LONG AND 6" WIDE, ON AIRCRAFT MOVEMENT SIDE AND CONTINUOUS 6" WIDE STRIPE ON NON-MOVEMENT SIDE.
- 2. SEE PAVEMENT MARKINGS GENERAL NOTES FOR PAINT REQUIREMENTS.

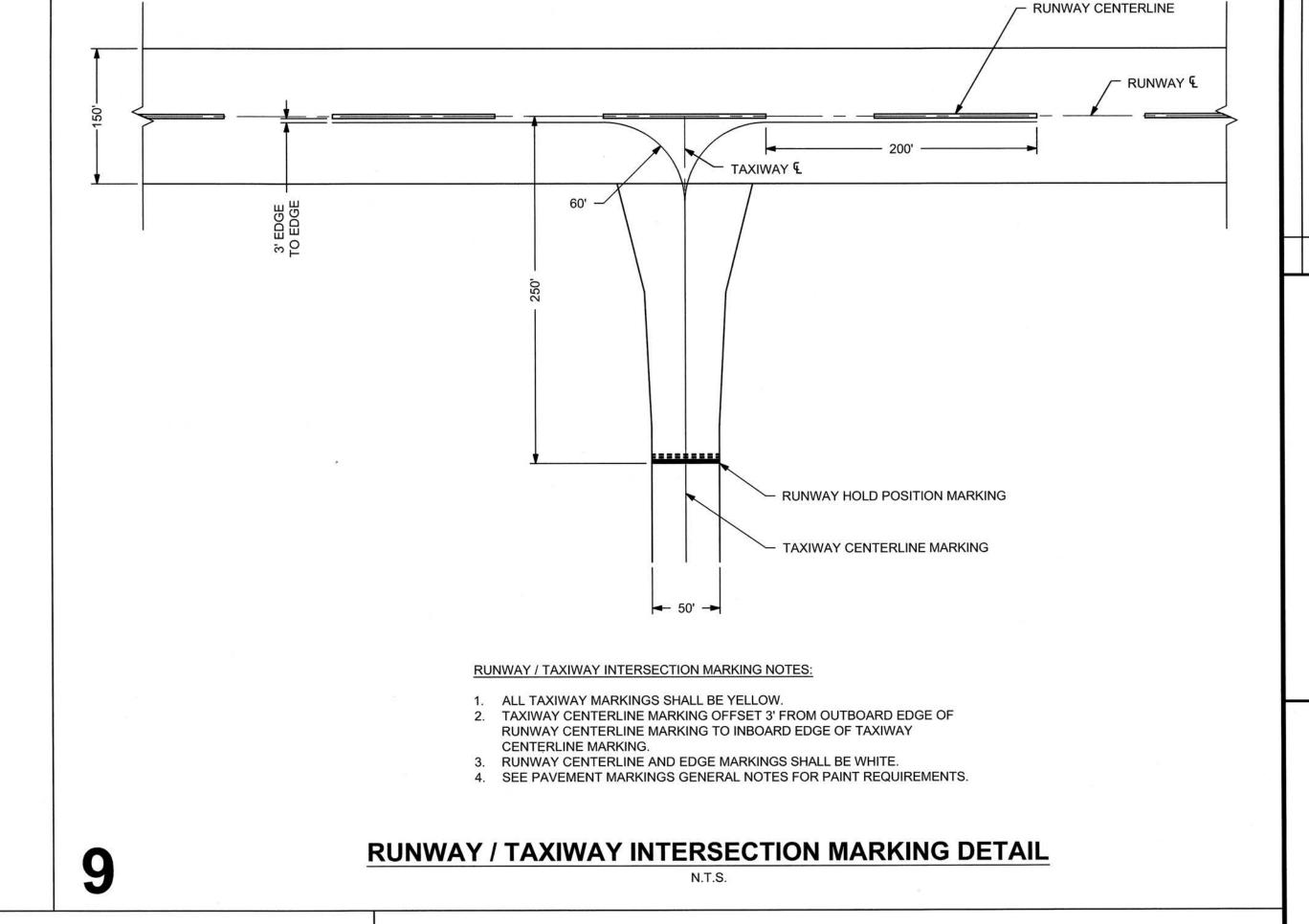
NON-MOVEMENT AREA MARKING DETAIL

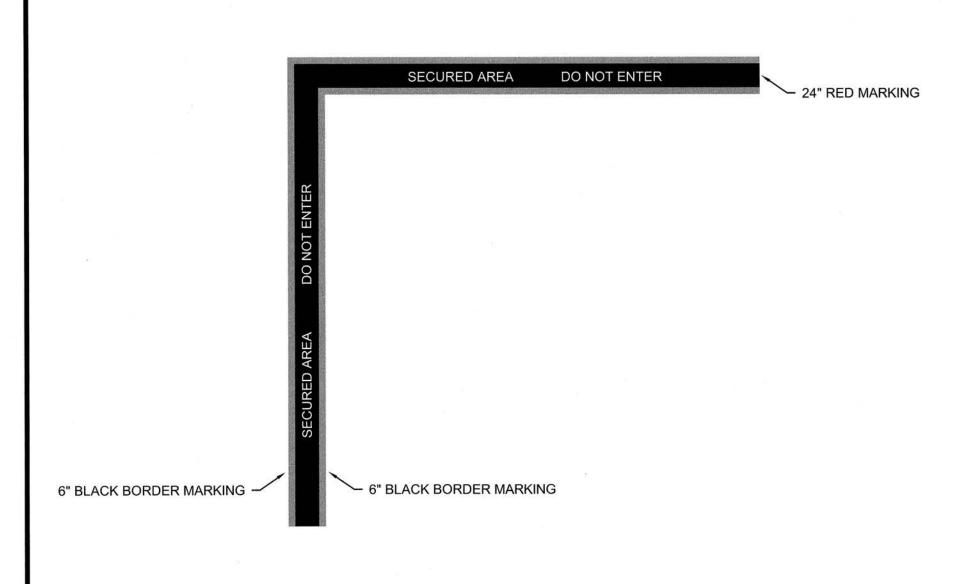
TAXIWAY SHOULDER MARKING DETAIL N.T.S.



TAXIWAY SHOULDER MARKING NOTES:

- 1. TAXIWAY SHOULDER MARKINGS SHALL BE YELLOW, 3' WIDE AND EXTEND TO 5' OF EDGE OF PAVEMENT OR 25' IN LENGTH, WHICHEVER IS LESS.
- 2. TAXIWAY CENTERLINE AND EDGE MARKINGS SHALL BE YELLOW AND 6" WIDE. SEE MARKING DETAILS.
- 3. SEE PAVEMENT MARKINGS GENERAL NOTES FOR PAINT REQUIREMENTS.





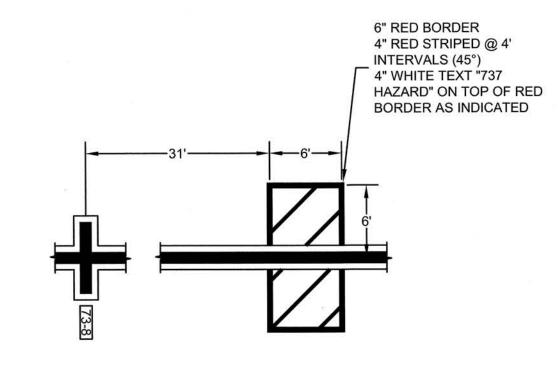
SECURE AREA/SIDA MARKING NOTES:

2. SEE PAVEMENT MARKINGS GENERAL NOTES FOR

ON MIXED WIDE BODY/NARROW BODY BUILDING GATES, THE NO TUG ZONE STARTS AT THE FORWARD MOST NARROW BODY STOP MARK THE "737 HAZARD" ZONE SHALL NOT CROSS OVER THE LEAD-IN LINE. THE HAZARD ZONE — SHOULD TERMINATE AT THE EDGE OF THE LEAD IN LINE OR BLACK BORDER (IF PRESENT) (SEE NOTE 6A) TERMINATE HATCH WHEN CROSSING -OTHER RAMP MARKINGS LEAD IN LINE WITH BLACK -BORDER **GATE ID MARKING** (NUMBER FOR -REFERENCE ONLY) 4" WIDE WHITE LINE (BORDER) 4" WIDE WHITE LINE (CROSSHATCH) NOTES: 6A. IN LOCATIONS WHERE THE LEAD IN LINE

IS SHORTER THAN 150', THE NO TUG/BAG CART ZONE SHALL TERMINATE AT THE GATE ID MARKING.

NO TUG/BAG CART ZONE N.T.S.



73-8 RAM AIR VENT HAZARD ZONE

 THE SECURE AREA/SIDA LINE MARKING IS RED AND 24" WIDE WITH A 6" BLACK BORDER ON BOTH SIDES.

PAINT REQUIREMENTS.

SECURE AREA/SIDA DETAIL

34

DAVID A. ALEXANDER

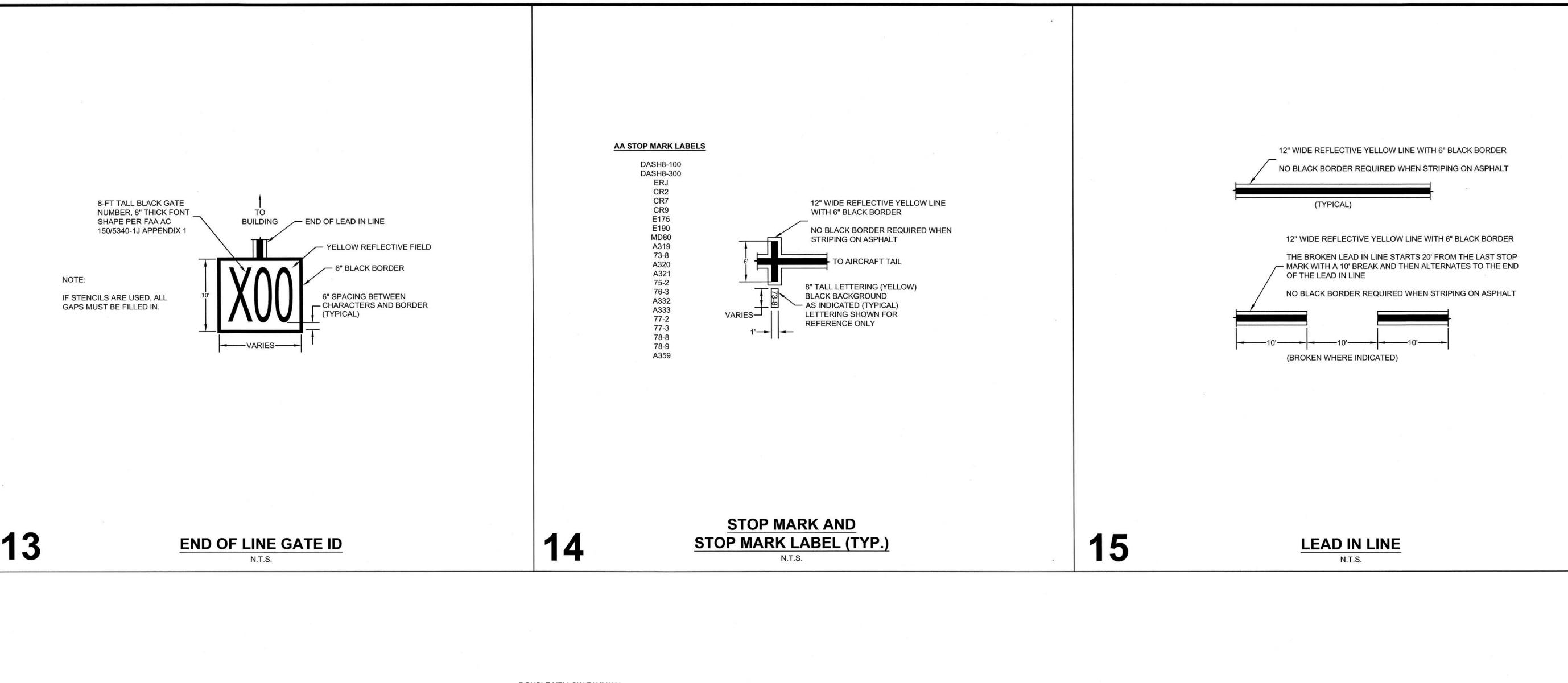
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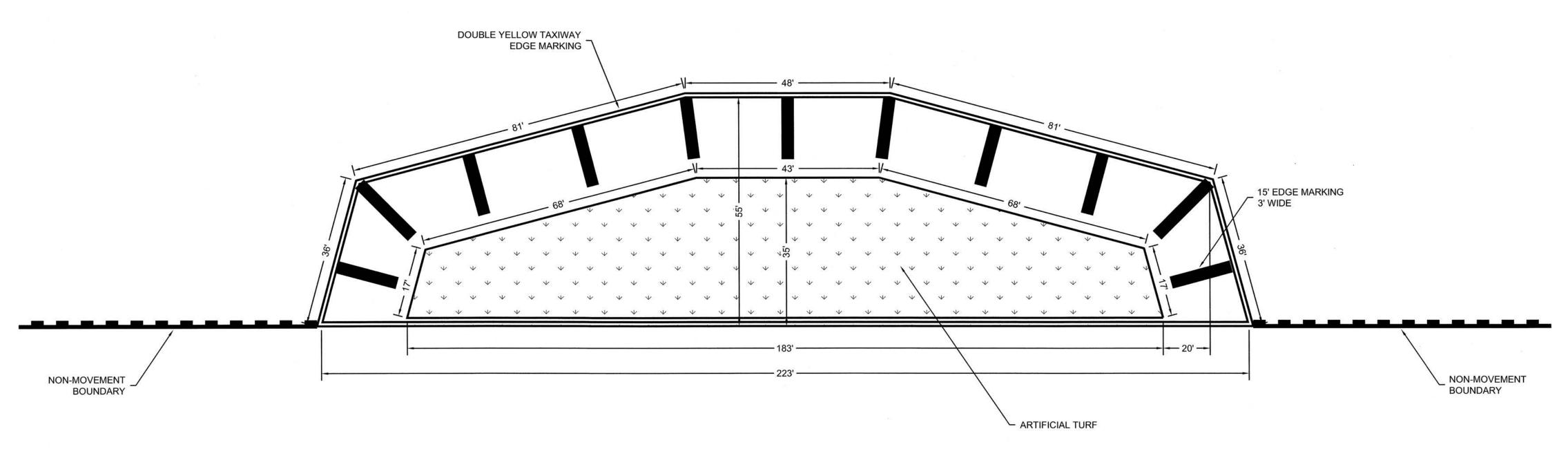
AIRPORT TAXIWAY

NFIGURATION PROJEC

SAN ANGELO, TEXAS

C





APRON ISLAND DETAIL

35

AIRPORT TAXIWAY
CONFIGURATION PROJECT
SAN ANGELO, TEXAS S

TAIL

MARKING DET PAGE 3

SITE DESCRIPTION

REMOVE	SCRIPTION: THE EXISTING TAXIWAYS ECHO AND CHARLIE AND REPLACE WITH RIGHT TAXIWAYS. CONSTRUCT APRON ISLANDS, REPAIR APRON EDGE AND
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EROSION AND SEDIMENT CONTROLS

V TELEBOOK OF TOUR CONTROL OF A LEGERCY DUE TO CEACON)	AAAINITENIANIOE
X TEMPORARY SEEDING (ONLY IF NECESSARY DUE TO SEASON)	MAINTENANCE: EROSION AND SEDIMENT CONTROLS WILL BE CHECKED BY THE RESIDENT PROJECT
X PERMANENT PLANTING, SODDING, OR SEEDING	REPRESENTATIVE ON A REGULAR BASIS AND MAINTAINED BY THE CONTRACTOR.
MULCHING	
SOIL RETENTION BLANKET	CONTRACTOR WILL CHECK CONTROLS DAILY AND AFTER EACH RAINFALL.
BUFFER ZONES	
PRESERVATION OF NATURAL RESOURCES	
OTHER:	INSPECTION:
	INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS WILL BE PERFORMED
STRUCTURAL PRACTICES:	EVERY 7 DAYS (MINIMUM), AND AFTER EACH 0.5 INCH RAIN, BY THE CONTRACTO
	AND RESIDENT PROJECT REPRESENTATIVE. INSPECTION REPORTS SHALL BE
X SILT FENCES	CREATED BY THE CONTRACTOR AND THE RESIDENT PROJECT REPRESENTATIVE AND REPORT TYPO 150000
X HAY BALES	DEFICIENCIES NOTED AND CORRECTED PER GENERAL PERMIT TXR0150000.
ROCK FILTER DAMS	
ROCK BERMS	
DIVERSION, INTERCEPTOR, OR PERIMETER DIKES	WASTE MATERIALS:
DIVERSION, INTERCEPTOR, OR PERIMETER SWALES	ALL COLLECTED WASTE MATERIALS WILL BE STORED IN CONTAINERS FOR LEGAL
DIVERSION DIKE AND SWALE COMBINATIONS PIPE SLOPE DRAINS	DISPOSAL BY THE CONTRACTOR.
PAVED FLUMES	
X ROCK BEDDING AND CONSTRUCTION EXIT	
TIMBER MATTING AT CONSTRUCTION EXIT	HAZARDOUS WASTE (INCLUDING SPILL REPORTING):
CHANNEL LINERS	POTENTIAL HAZARDOUS WASTES INCLUDE FUEL, PAINTS, ACIDS, SOLVENTS,
SEDIMENT TRAPS	ASPHALTS, AND OTHER ITEMS NEEDED FOR CONSTRUCTION. ALL SPILLS WILL
SEDIMENT BASINS	BE REPORTED AS SOON AS POSSIBLE TO THE APPROPRIATE AGENCY. ALL
X STORM INLET SEDIMENT TRAP	SPILLS MUST BE REPORTED IMMEDIATELY TO THE TXDOT PROJECT MANAGER.
STONE OUTLET STRUCTURES	
CURBS AND GUTTERS	
X STORM SEWERS	SANITARY WASTE:
X VELOCITY CONTROL DEVICES	THE CONTRACTOR WILL PROVIDE TEMPORARY RESTROOM FACILITIES FOR EMPLOYE
OTHER:	THE PROVIDER OF THE FACILITIES WILL LEGALLY DISPOSE OF SANITARY WASTE.
NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:	OFFSITE VEHICLE TRACKING:
EROSION AND SEDIMENT CONTROLS WILL BE INSTALLED PRIOR TO THE BEGINNING	2003-200 SQ-200-200
OF CONSTRUCTION AND WILL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT	X HAUL ROADS DAMPENED FOR DUST CONTROL
THE CONSTRUCTION PERIOD. ONCE INSTALLED, THESE DEVICES WILL BE	XLOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
MAINTAINED DURING THE DURATION OF THE PROJECT. EROSION AND SEDIMENT	X EXCESS DIRT ON ROAD REMOVED DAILYX STABILIZED CONSTRUCTION EXIT
CONTROLS WILL BE REMOVED WHEN DIRECTED BY THE ENGINEER.	STABILIZED CONSTRUCTION EXIT
	OTHER:
	1. IN THE EVENT THAT UNANTICIPATED ARCHEOLOGICAL DEPOSITS ARE
	ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL CEASE AND THE ENGINEER WILL CONTACT PROFESSIONAL ARCHEOLOGISTS TO
	INITIATE POST-REVIEW DISCOVERY PROCEDURES UNDER THE PROVISIONS OF
	36 CFR 800.13.
	2. IN THE EVENT THAT UNANTICIPATED HAZARDOUS MATERIALS ARE
	ENCOUNTERED DURING CONSTRUCTION, WORK IN THE IMMEDIATE AREA WILL
	CEASE AND THE PROJECT MANAGER WILL BE NOTIFIED.
STORM WATER MANAGEMENT:	3. STOCKPILES AND STAGING AREAS WILL NOT BE PLACED WITHIN ANY WATER (
EXISTING AND PROPOSED DITCHES AND STORM SEWER WILL BE USED TO	THE UNITED STATES, INCLUDING WETLANDS.
REMOVE WATER FROM THE SITE.	
	REMARKS:

