

# CONSTRUCTION PLANS

FOR

# GREENVILLE AIRPORT

## T-HANGAR APRON REHABILITATION

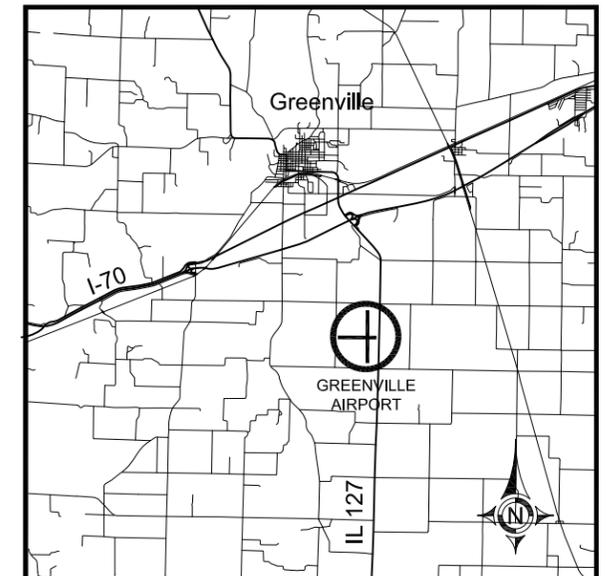


LOCATION MAP

ILLINOIS PROJECT NUMBER: GRE-4164  
 AIP PROJECT NUMBER: 3-17-0049-B9

GREENVILLE, ILLINOIS  
 BOND COUNTY

DATE: MARCH 2, 2012



VICINITY MAP

BROWN AND ROBERTS, INC.  
 CONSULTING ENGINEER  
 PRESIDENT

SUBMITTED BY: *J.W. Brown*  
 JIM W. BROWN

DATE SUBMITTED: 03/02/2012

LICENSE NUMBER: 184-002518  
 LICENSE EXPIRATION DATE: APRIL 30, 2013

PLANS PREPARED BY:



BROWN AND ROBERTS, INC.  
 1 WESTRIDGE ROAD  
 HARRISBURG, IL. 62946  
 (618) 252-8111

GREENVILLE AIRPORT AUTHORITY  
 ACTING CHAIRMAN

APPROVED BY: *Denny Willman*  
 DENNY WILLMAN DATE 03/02/12

SECRETARY

ATTESTED BY: *Randy Vasel*  
 RANDY VASEL DATE 03/02/12

## SUMMARY OF QUANTITIES

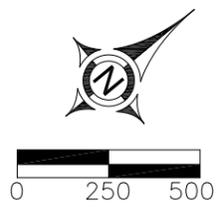
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
AR401613	BIT. SURF. CSE. - METHOD I, SUPERPAVE	TON	260
AR403613	BIT. BASE CSE. - METHOD I, SUPERPAVE	TON	260
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	2,200
AR501507	7" PCC PAVEMENT	S.Y.	100
AR602510	BITUMINOUS PRIME COAT	GAL	700
AR603510	BITUMINOUS TACK COAT	GAL	500
AR705504	4" PERFORATED UNDERDRAIN	L.F.	900
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	1
AR705645	UNDERDRAIN CONNECTION	EACH	5
AR801257	REMOVE & REPLACE UNSUITABLE SUBGRADE	S.Y.	220

## INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	SUMMARY OF QUANTITIES
3	RUNWAY SAFETY PLAN
4	TYPICAL SECTIONS
5	APRON PAVING PLAN
6	UNDERDRAIN LAYOUT & DETAILS

**GREENVILLE AIRPORT**  
**IL PROJECT NO. GRE-4164**  
**AIP NO. 3-17-0049-B9**  
**RUNWAY SAFETY PLAN**  
**SHEET 3 OF 6**

GR005



**SCOPE OF WORK**

THE PROJECT SCOPE CONSISTS OF THE REHABILITATION OF EXISTING T-HANGAR APRON PAVEMENT ALONG WITH OTHER NECESSARY AND RELATED WORK.

**PROPOSED SAFETY PLAN**

GENERAL- THE GREENVILLE AIRPORT CURRENTLY HAS A TURF RUNWAY 9-27 WHICH IS 2822 FT. x 250 FT. AND A PAVED RUNWAY 18-36 WHICH IS 4001 FT. x 75 FT.

**IT IS ANTICIPATED THAT BOTH RUNWAYS WILL REMAIN OPEN FOR THE DURATION OF THE PROJECT, AS NO CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT WILL BE WITHIN 200' OF THE RUNWAY CENTERLINES. ANY WORK WITHIN 200' OF THE CENTERLINE OF A RUNWAY WILL REQUIRE CLOSURE OF THAT RUNWAY.**

**CONTRACTOR'S RESPONSIBILITIES**

**IDENTIFICATION-** THE CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE PROPERLY MARKED WITH 3-FOOT SQUARE INTERNATIONAL ORANGE AND WHITE CHECKERED FLAGS ANYTIME THEY ARE ON AIRPORT PROPERTY.

THE CONTRACTOR AND HIS EMPLOYEES SHALL BE RESTRICTED TO THE WORK AREA.

**EQUIPMENT PARKING AND STORAGE-** THE CONTRACTOR'S EQUIPMENT PARKING, STORAGE, AND EMPLOYEE PARKING WILL BE AT THE LOCATION SHOWN ON THIS SHEET. ONLY CONTRACTOR VEHICLES AND EQUIPMENT REQUIRED FOR CONSTRUCTION WILL BE ALLOWED OUTSIDE THIS AREA.

**BARRICADES AND TRAFFIC CONES-** IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS REQUIRED AND AS DIRECTED BY THE RESIDENT ENGINEER. BARRICADES, THEIR MAINTENANCE, PLACEMENT, AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ANY WORK WITHIN 45' OF A TAXIWAY OR TAXILANE CENTERLINE SHALL REQUIRE CLOSURE OF THAT TAXIWAY OR TAXILANE USING LIGHTED BARRICADES AS SPECIFIED. NO WORK SHALL OCCUR WITHIN 45' OF THE CENTERLINE OF AN ACTIVE TAXIWAY OR TAXILANE.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING PAVEMENTS CAUSED BY HIS PERSONNEL OR EQUIPMENT.

**HAUL ROUTE AND EQUIPMENT PARKING**

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND EQUIPMENT PARKING AREA SHOWN ON THIS SAFETY PLAN. THE PROPOSED EQUIPMENT PARKING AREA WILL BE APPROXIMATELY 100-FT BY 50-FT. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ALL AREAS DISTURBED WILL BE RESTORED AS NEEDED TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND EQUIPMENT PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**UTILITY NOTE**

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND ORGANIZATIONS THAT HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR SHALL CALL JULIE (1-800-892-0123) TO ACCOMPLISH THESE REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UTILITIES ARE TO BE LOCATED PRIOR TO THE START OF CONSTRUCTION.

**J.U.L.I.E. INFORMATION**

COUNTY.....BOND  
 CITY.....GREENVILLE (4 MI SOUTHEAST)  
 TOWNSHIP.....CENTRAL  
 SECTION NO.....36  
 NEAREST MAJOR ROAD INTERSECTION...ILLINOIS RT. 127 & SKY LANE  
 AIRPORT ADDRESS...GREENVILLE AIRPORT  
 1374 SKY LANE  
 GREENVILLE, IL 62246

**NOTE:**

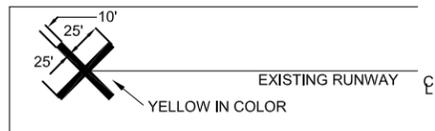
THE COST OF CONSTRUCTING, PLACING, MAINTAINING, AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE RESIDENT ENGINEER. THE CROSSES WILL BE PLACED AT THE ENDS OF THE RUNWAY AND SECURED IN A MANNER APPROVED BY THE RESIDENT ENGINEER. THE PROPOSED CROSSES WILL BE PLACED WHEN THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES AT NO ADDITIONAL COST TO THE CONTRACT.

**HEIGHT OF CONSTRUCTION EQUIPMENT**

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT IS 20 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A SEMI-TRUCK WITH TRAILER IN THE UP POSITION.

**AIRPORT SECURITY**

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE PROPOSED HAUL ROUTE SHOWN ON THIS SAFETY PLAN IS THE ONLY ACCESS CONTRACTOR EQUIPMENT AND PERSONNEL WILL BE ALLOWED TO USE. THE CONTRACTOR SHALL PROVIDE BARRICADES AT THIS ACCESS AND ENSURE THE BARRICADES ARE IN PLACE AT THE END OF EACH WORKING DAY.



DETAIL OF CROSS FOR CLOSED RUNWAY

"NOT TO SCALE"

**RUNWAY CLOSURE PROCEDURES:**

- \* CONTACT THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- \* ISSUANCE OF NOTAM BY THE AIRPORT MANAGER OR HIS ASSIGNED REPRESENTATIVE.
- \* PLACEMENT OF CROSSES (SEE DETAIL THIS SHEET).
- \* PLACEMENT OF LIGHTED BARRICADES. ONLY AT THE TIME THAT ALL OF THE ABOVE ARE COMPLETED MAY ANY CONSTRUCTION OPERATIONS WITHIN 200' OF THE RUNWAY CENTERLINE BEGIN.
- \* RUNWAY LIGHTS SHALL BE DISABLED

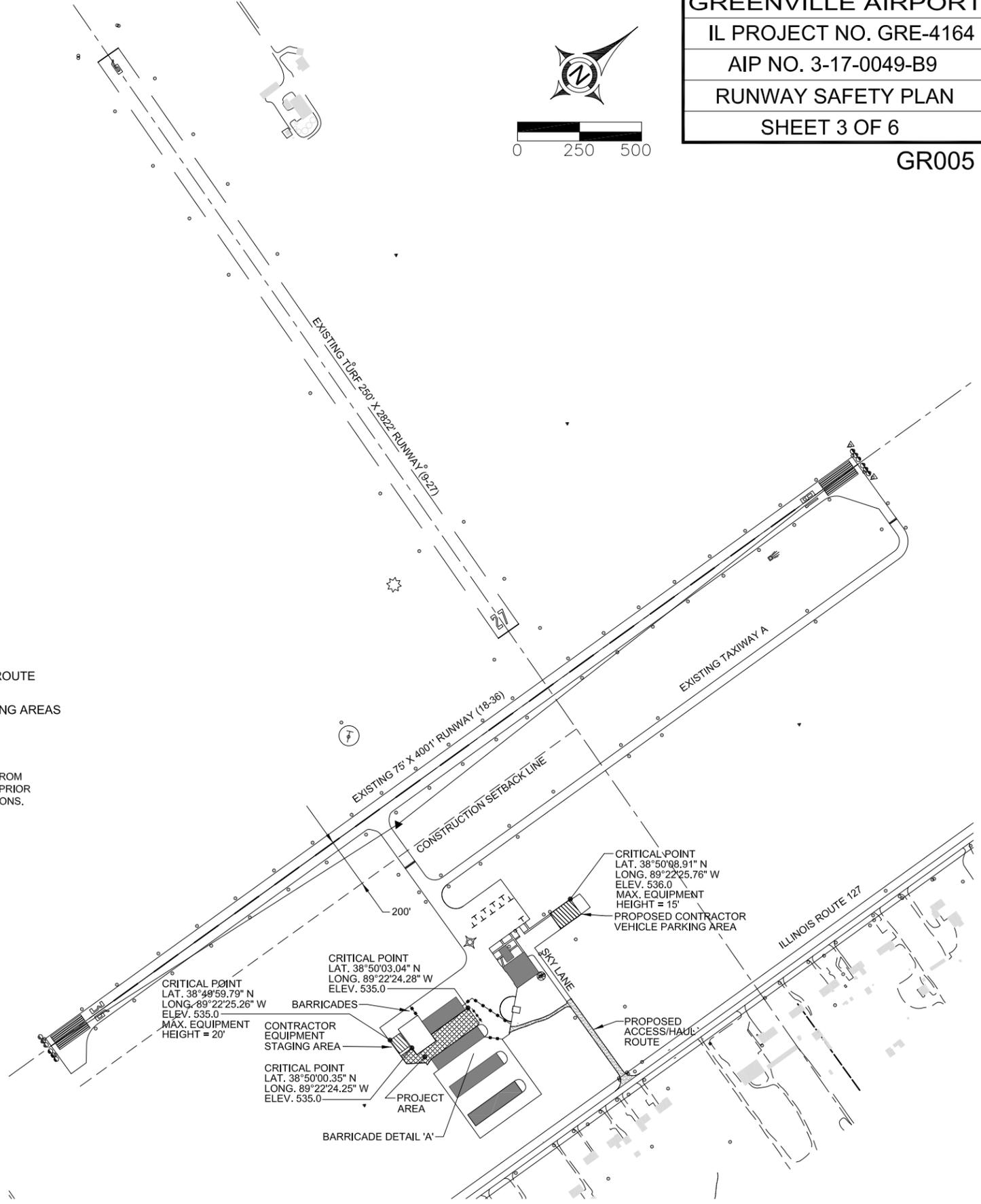
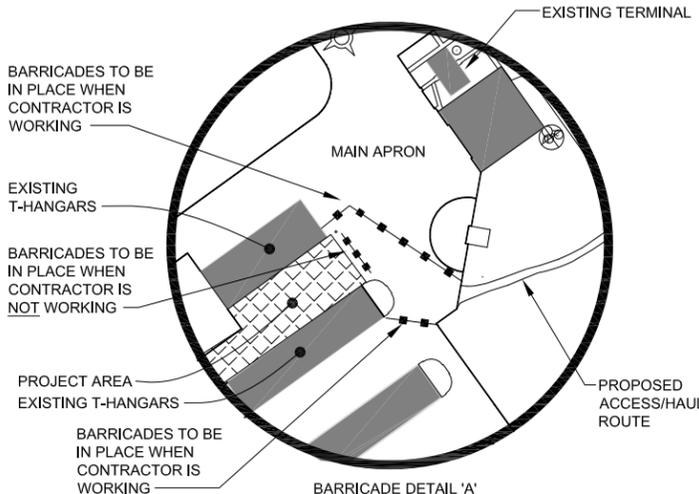
**RUNWAY RE-OPENING PROCEDURES:**

- \* REMOVE CROSSES.
- \* REMOVE LIGHTED BARRICADES.
- \* NOTIFY THE AIRPORT MANAGER OR HIS REPRESENTATIVE TO CANCEL THE NOTAM.
- \* CANCELLATION OF THE NOTAM. A CLOSED RUNWAY WILL NOT BE RE-OPENED UNTIL ALL EQUIPMENT AND WORK ARE NOT WITHIN 200' OF THE RUNWAY CENTERLINE.
- \* RUNWAY LIGHTS SHALL BE REACTIVATED.

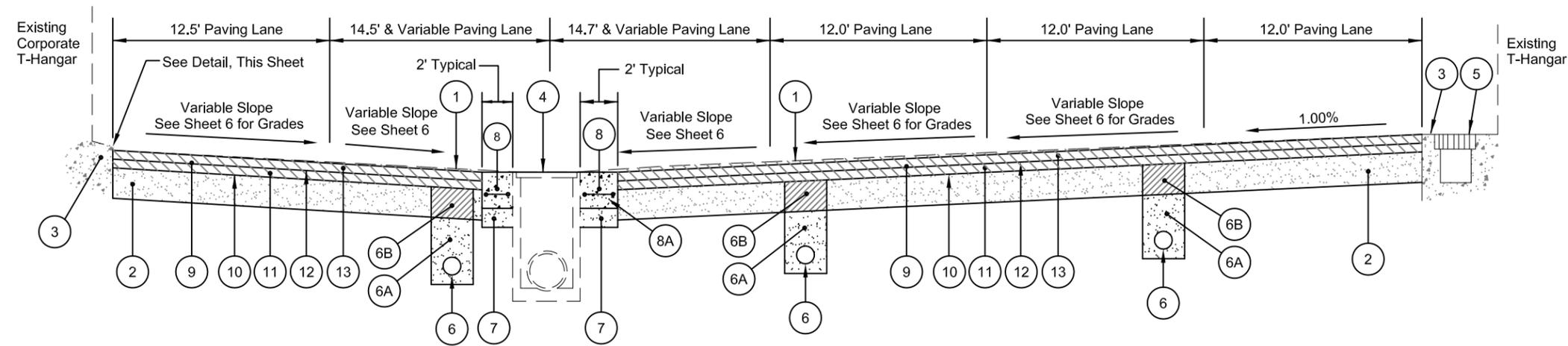
**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED CONTRACTOR ACCESS AND HAUL ROUTE
- PROPOSED CONTRACTOR PARKING AND STAGING AREAS
- BARRICADES

THE AIRPORT MANAGER WILL BE RESPONSIBLE FOR RELOCATING AIRCRAFT FROM HANGARS WITHIN THE BARRICADED AREA TO THE AIRCRAFT PARKING APRON PRIOR TO PLACEMENT OF THE BARRICADES AND PRIOR TO CONSTRUCTION OPERATIONS.



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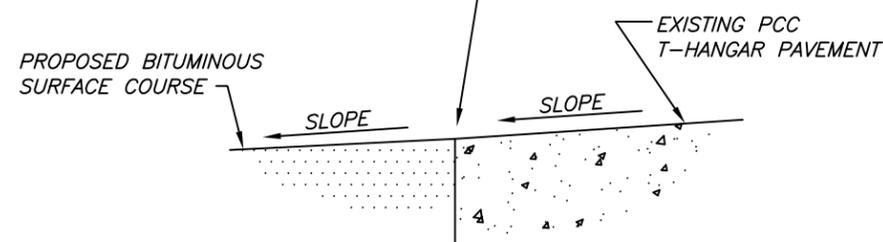
**TYPICAL SECTION (EAST - WEST)**

NO SCALE

**LEGEND**

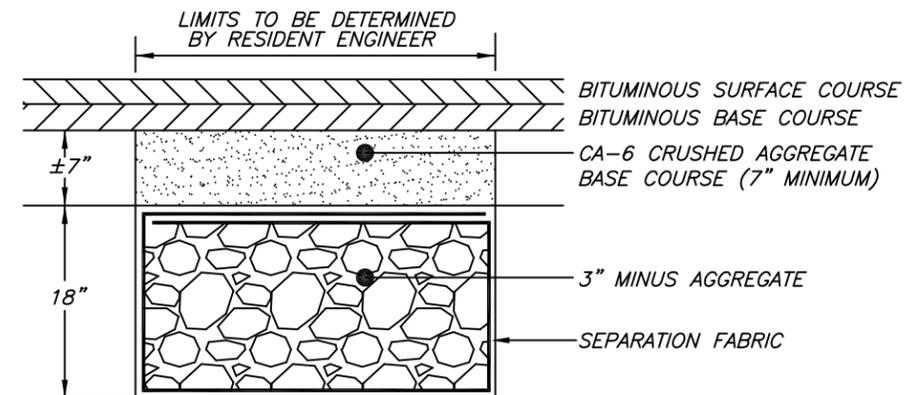
- |  |   |
|--|---|
| ① EXISTING BITUMINOUS SURFACE                              | ⑦ 4" COMPACTED CA-6 AGGREGATE (PART OF AR501507 PAY ITEM)               |
| ② EXISTING AGGREGATE BASE TO REMAIN                        | ⑧ AR501507 - 7" PCC PAVEMENT  |
| ③ EXISTING PCC PAVEMENT                                    | ⑧A WELDED WIRE FABRIC - 6 X 6 - W6.0 X W6.0 (PART OF AR501507 PAY ITEM) |
| ④ EXISTING DRAINAGE STRUCTURE TO REMAIN                    | ⑨ AR401650 - BITUMINOUS PAVEMENT MILLING                                |
| ⑤ EXISTING TRENCH DRAIN TO REMAIN                          | ⑩ AR602510 - BITUMINOUS PRIME COAT                                      |
| ⑥ AR705504 - 4" PERFORATED UNDERDRAIN                      | ⑪ AR403613 - BITUMINOUS BASE COURSE - METHOD I, SUPERPAVE (2")          |
| ⑥A CA-7 UNDERDRAIN BACKFILL (PART OF AR705504 PAY ITEM)    | ⑫ AR603510 - BITUMINOUS TACK COAT                                       |
| ⑥B 8" COMPACTED CA-6 AGGREGATE (PART OF AR705504 PAY ITEM) | ⑬ AR401613 - BITUMINOUS SURFACE COURSE - METHOD I, SUPERPAVE (2")       |

THE PROPOSED BITUMINOUS SURFACE COURSE SHALL EITHER MATCH OR BE SLIGHTLY LOWER THAN THE EXISTING T-HANGAR CONCRETE PAVEMENT. THE PROPOSED BITUMINOUS SURFACE COURSE SHALL NOT BE HIGHER THAN THE EXISTING PCC.



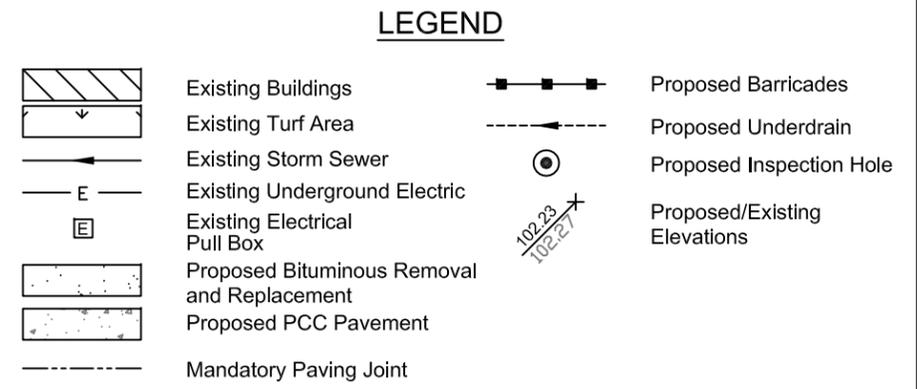
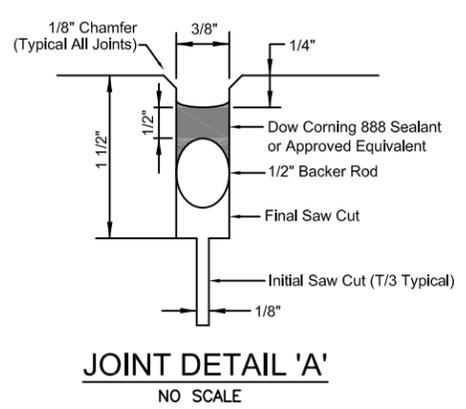
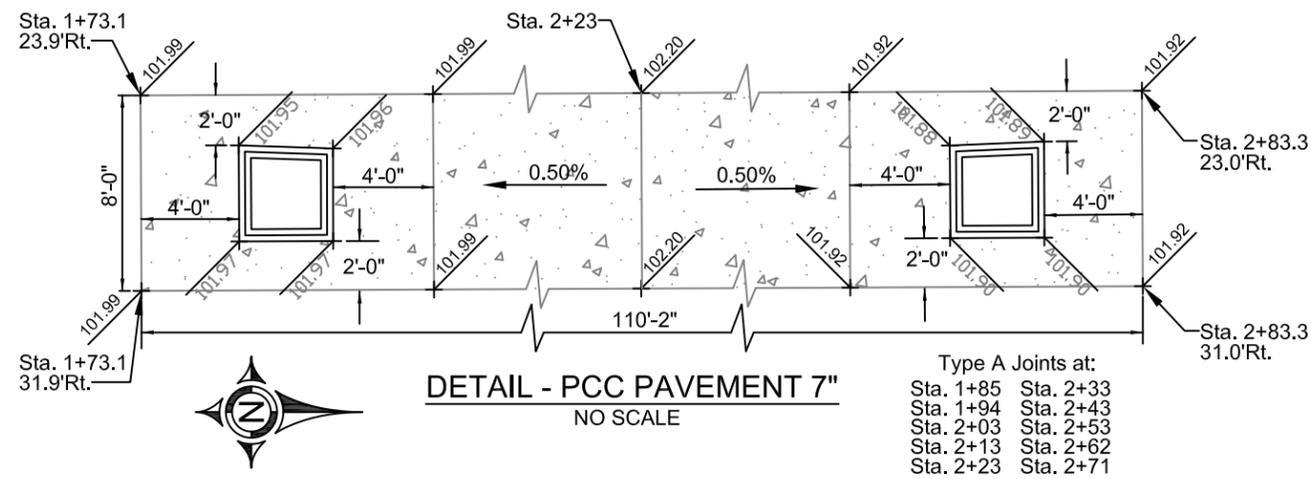
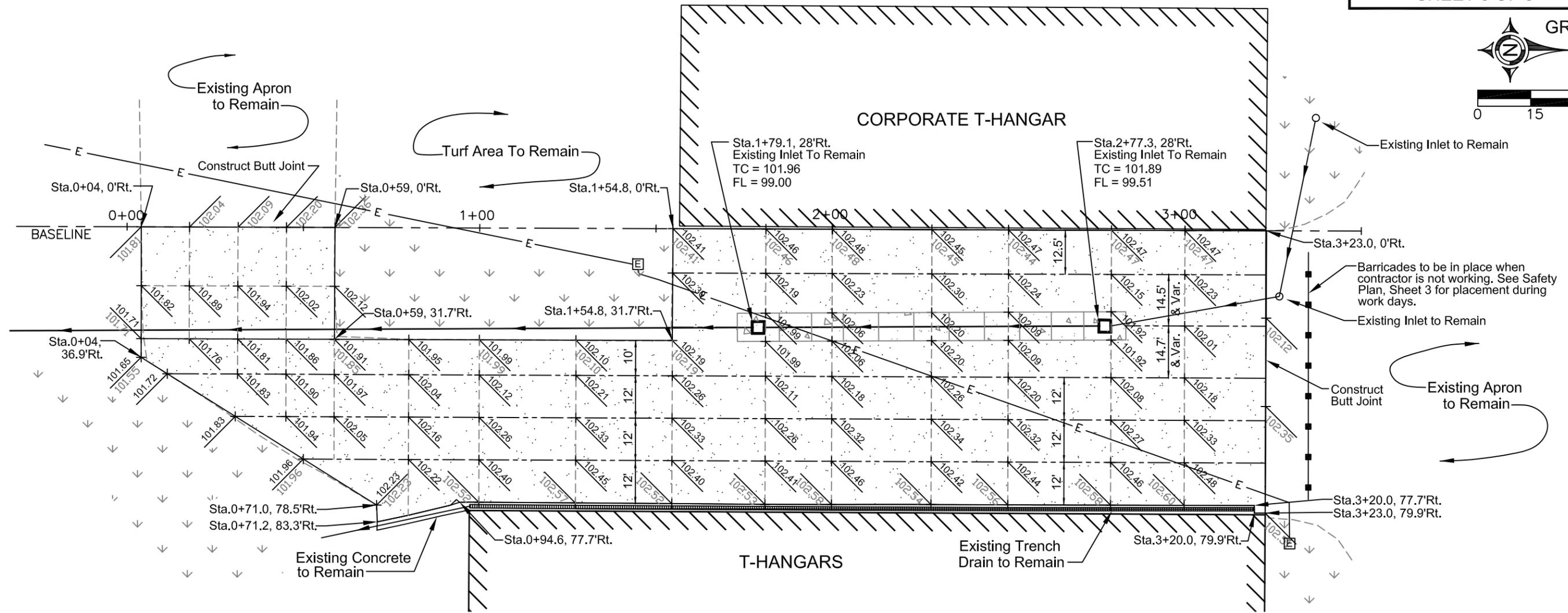
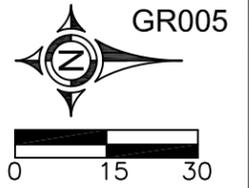
**T-HANGAR PAVEMENT DETAIL**

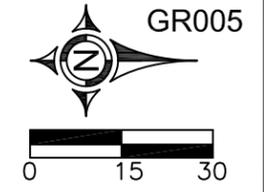
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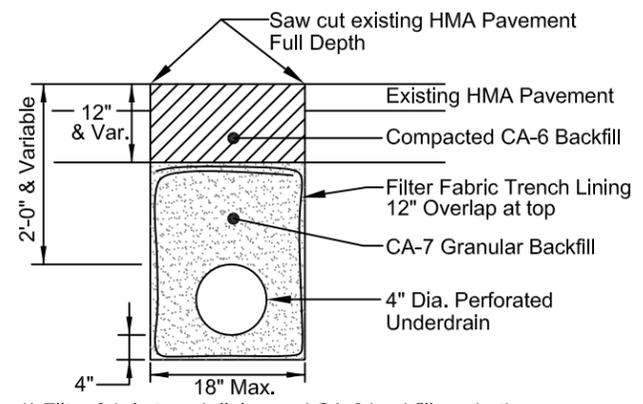
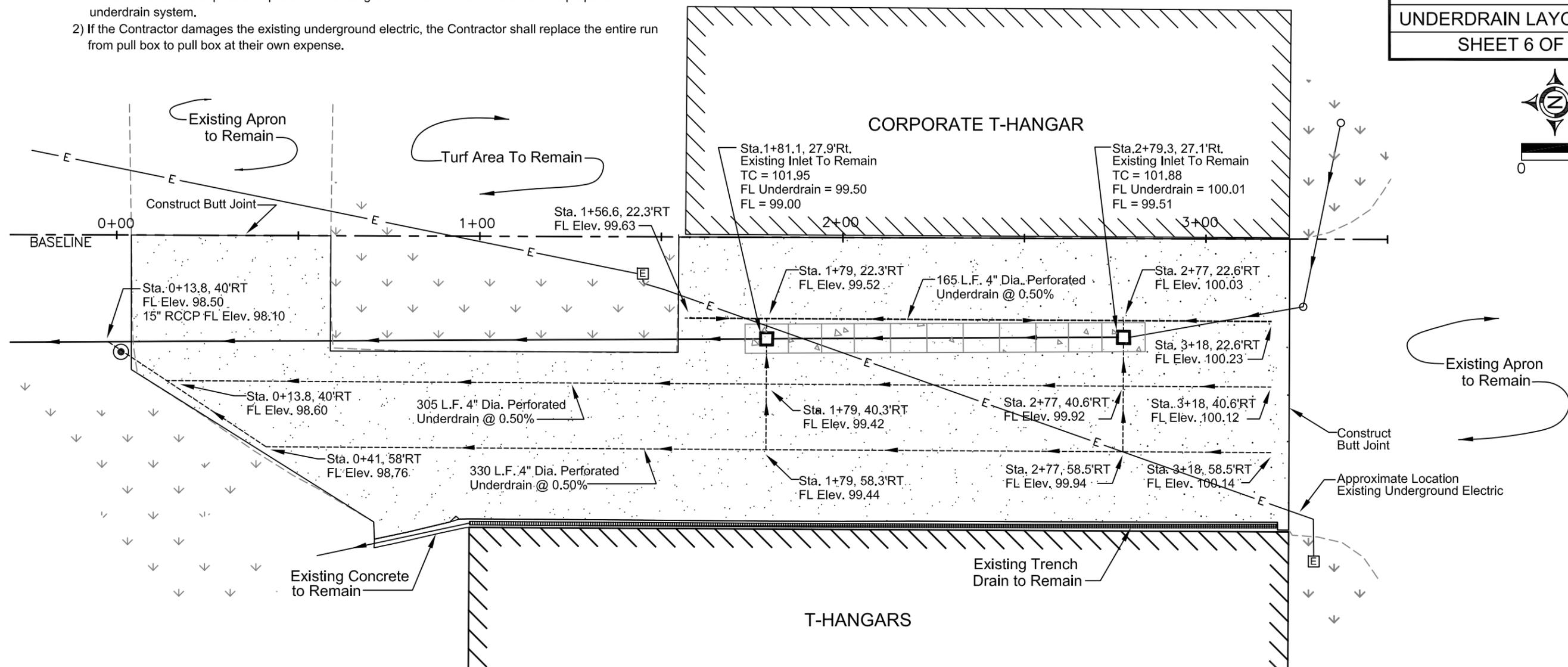
**REMOVE AND REPLACE UNSUITABLE SUBGRADE DETAIL**

NO SCALE



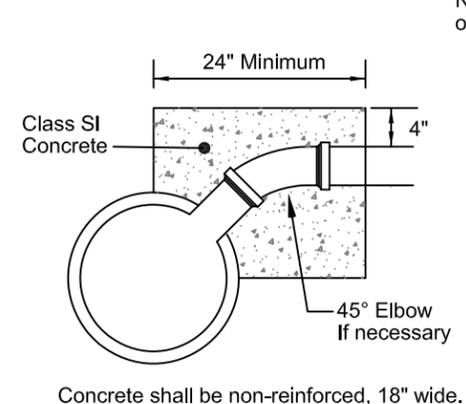


Notes: 1) The Greenville Airport shall mark the location of the underground electric. It shall be the responsibility of the Contractor to expose and protect the underground electric where it crosses the proposed underdrain system.  
 2) If the Contractor damages the existing underground electric, the Contractor shall replace the entire run from pull box to pull box at their own expense.



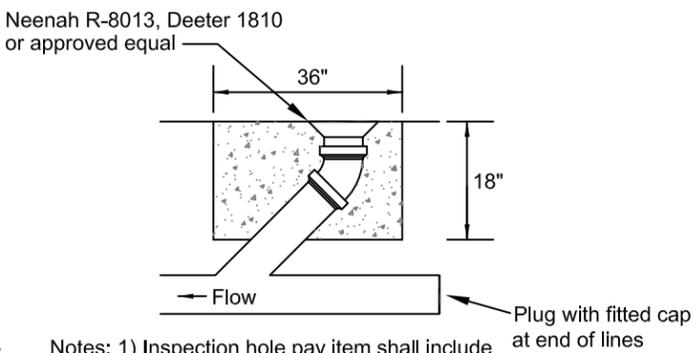
Notes: 1) Filter fabric trench lining and CA-6 backfill are both considered included with the underdrain pay item.

**TYPICAL UNDERDRAIN DETAIL**  
NO SCALE



Concrete shall be non-reinforced, 18" wide.

**UNDERDRAIN CONNECTION DETAIL**  
NO SCALE



Notes: 1) Inspection hole pay item shall include all fittings, casting, concrete and other materials and labor necessary to construct the inspection hole as detailed.  
 2) Concrete shall be non-reinforced, 18" wide.

**INSPECTION HOLE DETAIL**  
NO SCALE

**LEGEND**

	Existing Buildings		Proposed Barricades
	Existing Turf Area		Proposed Underdrain
	Existing Storm Sewer		Proposed Inspection Hole
	Existing Underground Electric		Proposed/Existing Elevations
	Existing Electrical Pull Box		
	Proposed Bituminous Removal and Replacement		
	Proposed PCC Pavement		
	Mandatory Paving Joint		