



JEFFERSON COUNTY, TEXAS PURCHASING DEPARTMENT

1149 Pearl Street – First Floor
Beaumont, Texas 77701
409-835-8593 phone

ADDENDUM TO IFB

IFB Number: IFB 22-011/JW

IFB Title: Taxiway A Rehabilitation at the Jack Brooks Regional Airport

IFB Due: **11:00 am CT, Wednesday, April 6, 2022**

Addendum No.: 2

Issued (Date): March 29, 2022

TO BIDDER: This Addendum is an integral part of the IFB package under consideration by you as a Bidder in connection with the subject matter herein identified. Jefferson County deems all sealed proposals to have been proffered in recognition and consideration of the entire IFB package – **including all addenda.** For purposes of clarification, **receipt of this present Addendum by a Bidder should be evidenced by returning it (signed) as part of the Bidder's sealed proposal.** If the Proposal has already been received by the Jefferson County Purchasing Department, Bidder should return this addendum in a separate sealed envelope, clearly marked with the IFB Title, IFB Number, and Opening Date and Time, as stated above.

Reason for Issuance of this Addendum:

- Included Pre-Bid Sign in Sheet
- Answering prospective bidder questions:

Q	<p>Please clarify that you want the 1 original and all 3 copies to be returned with each in a complete spec book, thus making us return 4 complete spec books. That is how it is being said on SPECIAL REQUIREMENTS/BID SUBMISSION INSTRUCTIONS Page 12, 1. BID REQUIREMENT, 4th paragraph.</p>
A	<p>That is correct.</p>
Q	<p>Can you provide the engineer's estimate?</p>
A	<p>Engineer's estimate will not be provided.</p>
Q	<p>Can you confirm we are to submit bidder qualifications as described in Section 20-Proposal Requirements Conditions?</p>
A	<p>Per section 20 contractor is required to submit bidder's qualifications.</p>
Q	<p>Can you confirm this project has Buy American requirements?</p>
A	<p>That is correct, this project is subject to Buy American Requirements.</p>
Q	<p>Can we get a copy of the Pre-Bid Meeting sign-in sheet?</p>

A	Sign in sheet will be posted here and on Jefferson County Procurement website. https://co.jefferson.tx.us/Purchasing/NoticesForBid/View/ADD/163
Q	The contract time already includes a large amount of assumed "normal" weather related events as described in Section C-06 of the Terms Conditions. Given the already tight timeframe, we request that the time of completion be revised to 300 calendar days since we essentially will not be provided any relief for weather delays.
A	We will review request however the statement is incorrect. Should average weather days in any given month exceed those listed in Section C-06 of the specifications, and work cannot take place, those days would be reviewed and added to the contract time if warranted.
Q	As discussed at the pre-bid meeting, will the contractor be allowed to access Phase 2 through the first Phase area? or is the back road that leads to Phase Two entrance is the only way?
A	Alternative staging areas and access routes have been provided. See drawing sheets GC-100 to GC-103.
Q	If the prime contractor makes a ligament intent to request DBE/HUB participation but due to uncontrol circumstances DBE/HUB vendors do not provide a proposal would the prime contractor not be at fault if the DBE goal is not met?
A	The prime contractor should make a good-faith effort to meet the DBE requirement of 10.73% and CLEARLY document the good-faith efforts taken to meet the requirements. We encourage the prime contractor to submit documentation showing the efforts to obtain DBE subcontractor(s). At a minimum documentation should include all emails/letters sent to proposed DBE subs and their responses and reasons why they are unable to perform work. Should the contractor not be able to meet the DBE requirements, the documentation provided will be reviewed for good-faith effort and possible reduction of the DBE requirement.
Q	Can you clarify the difference between the areas designated as concrete pavement and reinforced concrete pavement?
A	The pavement designated as reinforced contains #4 Bars @12" O.C. This is noted in details 3-7 on Sheet 31, Drawing Number CJ-301
Q	As discussed in the pre-bid meeting, the total days to complete the job are 210 calendar days. To add on to the previous question asked, rain days are built in the 210 total? Also, if we have 17 rain days in August and the AVG rain days for August are 16 we are only being credited 1 day? Let me know I have the correct understanding.
A	That is correct. Should average weather days in any given month exceed those listed in Section C-06 of the specifications, and work cannot take place, those days would be reviewed and added to the contract time if warranted.
Q	To confirm work hours, no night work is expected?
A	Correct, night work will not be required.
Q	Sheet 69 in the bid documents, Vendor Reference Sheet. Is the sheet only for selected material vendors or also for subcontractors?
A	This sheet is for the prime contractor /bidder to fill out.

Updated Specifications:

- **Updated minority and female participation goals on page 25**
- **Updated Construction Contract Time on page 46**
- **Updated Construction Contract Time on page 49**
- **Removed footer annotation on page 52**
- **Updated Construction Contract Time on page 68**
- **Updated cement requirements on specification P-501 sheet 4**

Updated Drawings:

- **Added sheet GC-100 “CONSTRUCTION SAFETY AND PHASING PLAN – OVERALL” laying out primary and secondary construction staging areas.**
- **Updated Construction Safety and Phasing notes on sheets GC-001 and GC-002**
- **Updated Construction Contract Time on sheets GC-101, GC-102, and GC-103**
- **Removed the need for night work on sheet GC-101**
- **Updated Reinforcement Requirements on sheet CJ-301**

The information included herein is hereby incorporated into the documents of this present Bid matter and supersedes any conflicting documents or portion thereof previously issued.

Receipt of this Addendum is hereby acknowledged by the undersigned Bidder:

ATTEST:

Authorized Signature (Bidder)

Witness

Title of Person Signing Above

Witness

Typed Name of Business or Individual

Approved by _____ Date: _____

Address



JEFFERSON COUNTY PURCHASING DEPARTMENT

Sign-In Sheet

Pre-Bid Conference & Walk-Through

Invitation for Bid (IFB 22-011/JW) Taxiway A Rehabilitation at the Jack Brooks Regional Airport

2:00 pm CT, Thursday, March 17, 2022 / Location: Jack Brooks Regional Airport (Administration Conference Room)

Please Print.

NAME	COMPANY/FIRM	ADDRESS	OFFICE/CELL # (s)	EMAIL
Todd Jackson	BRIZO Constructors	9100 CANNIFF Houston 15150 Memorial Drive Houston TX 77079	801-554-3753 713-845-4633	Todd.Jackson@RECONSTRUCTION.COM Red.F.Sunderman@
Frederick Sunderman	SB Infrastructure	24624 1H45N #200 260 CR 3003 NEWTON TX 75966	713-724-3341 936-590-0722	SB-INFRA.COM Cynthia.Straughan@ VXL global.com
Cynthia Straughan	VRX Inc.	24624 1H45N #200 260 CR 3003 NEWTON TX 75966	713-724-3341 936-590-0722	Cynthia.Straughan@ VXL global.com
Daren Smith	T AND L Industries	2455 (W) 14th Cardinal Drive Benham TX 77005		Dsmith@TANDL.NET gdewberryjr@twinc.com
Matt Dewberry	Talony Wong Engineers	2455 (W) 14th Cardinal Drive Benham TX 77005	409-781-9706	
Wayne Holman	Spudtop Concrete	5000 1st Ferry Rd Port Arthur, TX 77642	409-960-8537	Wayne.Holman@ Texagp.com
Aaron Hatcher	Airport	222 CR 888 Buna, TX 77612	409-454-1604	ahatcher@co.Jefferson.texas.gov
JASON FRANK	GPVER	12141 WICKSHESTER LN SUITZ 200, HOUSTON, TX	713-895-4282	jefrank@GPVER.COM



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NAME	COMPANY/FIRM	ADDRESS	OFFICE/CELL # (s)	EMAIL
Christie Cure	Knife River	4825 Romeda Beaumont	409.284.6118	christie.cure@kniferiver.com
Brooke Ramsey	Knife River	4825 Romeda Beaumont	409.239.8324 409.981.7671	brooke.ramsey@kniferiver.com
Terry McGee	Knife River	4825 Romeda Beaumont,	409.832-6655 409.239.9133	terry.mcgee@kniferiver.com
James West	Jefferson Cty. Purchasing	1149 Pearl, 1st flr BMT, TX 77701	409-035-8793	jwest@co.jefferson. tx.us
Jose Lora	Gulf Coast	12917 Hwy 90 BMT, TX 7772	409-284-4798	jose.lora@gc-texas.com
Shawn Thurnman	SPAWGLASS	13800 West Road HOUSTON, TX 77041	281-970-5300	shawn.thurnman@spawglass.com



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Please Print.

NAME	COMPANY/FIRM	ADDRESS	OFFICE/CELL # (s)	EMAIL
Thomas (Tommy) Kelley Bryon Glenn For Mike Kelley	A11CO MK Constructors	P.O.Box 3687 Bmt, 77704 16736 IH-10 Welder TX 77670	409-860-4459 409-769-0089	bharrison@A11co.com Sales@MKconstructors.com
Gus Harris	Harris Const. Co.	7505 Gilbert Rd Bmt. 4484 Hodgeson Rd Nederland, TX	409-791-2170 409-728-9037	G.Harris (6620) 477, H.t
Markie Hawkins	RT Technical	11988 FM 365, BMT TX 8585 Chemical Rd BMT, TX 77705	409-796-1344 409-842-6768	MHawkins@rttechnical.com
McCain McDonado	L&L General Contractors	11988 FM 365, BMT TX 8585 Chemical Rd BMT, TX 77705	409-796-1344 409-842-6768	Landline@att.net
Ron Lane	Brystar Contracting	5000 Semibreve Bmt 77705	409-719-4900 479-301-0733	Ron@Brystar.com
Alex Rupp	Airport	5000 Semibreve Bmt 77705	409-719-4900 479-301-0733	ARupp@co.Jefferson.TX.US
KEN RUTBANK	GARVER			KRUTBANK@GARVER.COM
DAVID GRANAN	GARVER		713 491 8333	D.GRANAN@GARVER.COM
DUKE YOUNGANS	Airport		409-719-4900	DYOUNGANS@CO.JEFFERSON.TX.US
Esther Salazar	RAMTEX	905 Jade Ave. Port Arthur	409-983-5555	Esther@deztex.com
Megan Kitchens	Airport		409-719-4900	mkitchens@co.Jefferson.TX.US

Executive Order 11246 has set a goal of 6.9% nationally for female participation for all construction projects. This value remains constant for all counties and states.

Contract Types:

Construction: The sponsor must incorporate this notice in all solicitations for bids or requests for proposals for AIP funded construction work contracts and subcontracts that exceed \$10,000.

Equipment: The sponsor must incorporate this notice in all solicitations for equipment project exceeding \$10,000 that involves installation of equipment onsite (e.g. electrical vault equipment, generators). This provision does not apply to equipment acquisition projects where the manufacturer of the equipment takes place offsite at a manufacturer's plant (e.g. firefighting and vehicles).

Professional Services: The sponsor must incorporate this notice in any professional service agreement if the agreement includes tasks that meet the definition of construction work, as defined by the DOL, and exceeds \$10,000.

Use of Provision: When applicable, the sponsor's language in the contract must fully satisfy the requirements of 41 CFR Part 60-4. The following will be in applicable contracts:

Solicitation Clause:

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION
TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractors aggregate workforce in each trade on all construction work in the covered area, are as follows:
 - a. Goals for minority participation for each trade: **10.73%**
 - b. Goals for female participation in each trade: **N/A**

These goals are applicable to all of the contractor's construction work, whether or not it is federal or federally assisted, performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR Part 60-4.3(a) and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with these goals will be measured against the total work hours performed.

The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of these subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

CONTRACT

THIS AGREEMENT made this _____ day of _____, 2021, by and between **TBD**, a Corporation organized and existing under the laws of the State of **Texas** hereinafter called the "Contractor", and **JEFFERSON COUNTY, TEXAS**, hereinafter called the "Owner".

WITNESSETH:

That the Contractor and the Owner for the consideration stated herein mutually agree as follows:

ARTICLE 1. Statement of Work. The Contractor shall furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment, incidentals and services, including utility and transportation services and perform and complete all work required for the construction of **Taxiway A Rehabilitation** in strict accordance with the Contract Documents.

ARTICLE 2. The Contract Price. The Owner will pay the Contractor, because of his performance of the Contract, for the total quantities of work performed at the lump sum and unit prices stipulated in the Proposal for the **Base Bid**, **not to exceed a total contract value of: COST IN WORDS (\$XXX,XXX,XXX)** subject to additions, and deductions as provided in the Section entitled "CHANGES IN THE WORK" under GENERAL PROVISIONS.

ARTICLE 3. Contract Time. The Contractor agrees to begin work within ten (10) calendar days after issuance by the Owner of a "Work Order" or "Notice to Proceed" and to complete the work within **Two Hundred and Forty (240)** consecutive calendar days thereafter (except as modified in accordance with the GENERAL PROVISIONS of these Contract Documents). If the Contractor shall fail to complete the work within the time specified, he and his Surety shall be liable for payment to the Owner, as liquidated damages ascertained and agreed, and not in the nature of a penalty, the amount specified in the PROPOSAL of these Contract Documents for each day of delay. To the extent sufficient in amount, liquidated damages shall be deducted from the payments to be made under this Contract.

ARTICLE 4. Contract. The executed Contract Documents shall consist of the following:

1. General Conditions of Bidding and Award of Contract
2. Special Requirements/Bid Submission Instructions
3. Federal Mandated Contract Provisions
4. Title VI Solicitation Notice
5. Bidder Information Form
6. Statement Of Bidder's Qualifications
7. Conflict Of Interest Questionnaire
8. Local Government Officer
9. Good Faith Effort (GFE) Determination Checklist
10. Notice Of Intent (NOI) To Subcontract with Disadvantaged Business Enterprises (DBE)
11. Disadvantaged Business Enterprises (DBE) Subcontracting Participation Declaration Form
12. Residence Certification/Tax Form
13. House Bill 89 Verification
14. Senate Bill 252 Certification
15. Bid Surety
16. Contract
17. Notice Of Award
18. Notice To Proceed
19. Performance And Payment Bonds
20. Offer And Acceptance Form
21. Bid Form and Proposal
22. Vendor References Form
23. Signature Page
24. Certification Regarding Lobbying
25. Bid Affidavit
26. Addenda
27. Wage Rates

XXXXXXXXXXXX
XXXXXXXXXXXX
XXXXXXXXXXXX
XXXXXXXXXXXX

Re: Jack Brooks Regional Airport
Taxiway A Rehabilitation; Jefferson County Contract 22-011/JW
AIP No. **X-XX-XXXX-XXX-XXXX**
Notice to Proceed

Dear Mr. _____:

Please consider this letter as your Notice to Proceed with construction on the above referenced project, effective XXXXXX, 2021.

Under the terms of the Contract, contract time will start when construction begins or ten (10) days after the effective date of this Notice to Proceed, whichever comes first. Work must be completed within 240 calendar days of the start of contract time, and construction phase 2 must be completed within 60 calendar days. Before you start work at the site, Special Provisions Section C-01 requires that you must deliver to the Engineer and Owner Certificates of Insurance which you are required to purchase and maintain in accordance with the Contract. As stipulated in the Contract Proposal, failure to complete the work within the contract time (including phase 2) shall result in the assessment of liquidated damages. The damages are therein set in the amount of \$1,500.00 per calendar day.

Please call me if you have any questions.

Sincerely,

GARVER, LLC

Jason Frank, P.E.
Sr. Project Manager

CC: Alex Rupp, Jack Brooks Regional Airport (via email)

ACCEPTANCE OF OFFER

The Offer is hereby accepted for the following items: Taxiway A Rehabilitation at the Jack Brooks Regional Airport

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the Invitation for Bid, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by Jefferson County.

This contract shall henceforth be referred to as **Contract No. 22-011/JW, Taxiway A Rehabilitation at the Jack Brooks Regional Airport**. The Contractor has not been authorized to commence any billable work or to provide any material or service under this contract until Contractor receives a purchase order and/or a notice to proceed from the Jefferson County Purchasing Agent.

COUNTERSIGNED:

Jeff R. Branick
Jefferson County Judge

Date

ATTEST:

Laurie Leister
Interim Jefferson County Clerk

It is understood the quantities of work to be done at unit prices are approximate and are intended for bidding purposes only. Amounts are to be shown in both words and figures. In case of discrepancy the amount shown in words shall govern.

Contract Award will be based on the lowest qualified bidder, depending on the availability of funds.

Bidders understand the Owner reserves the right to reject any irregular proposal and the right to waive technicalities if such waiver is in the best interest of the Owner and conforms to State and local laws and ordinances pertaining to the letting of construction contracts. Funding availability will be considered in selecting the bid award. The bidder agrees this bid shall be honored and may not be withdrawn for a period of 90 calendar days after the scheduled closing time for receiving bids.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" and to fully complete the project within:

240 Calendar Days thereafter.

- Construction Phase 2 shall be completed within **60 Calendar Days** thereafter.

Bidder further agrees to pay as liquidated damages the sum of **one thousand five hundred dollars (\$1500.00)** for each calendar day to complete the work beyond the allotted time (including Phase 2) or as extended by an approved Change Order or Supplemental Agreement.

the CF and WF may be adjusted during production ± 3 WF and ± 5 CF. Adjustments to gradation may not take the point outside of the parallelogram.

e. Contractors combined aggregate gradation. The Contractor shall submit their combined aggregate gradation using the following format:

Contractor's Combined Aggregate Gradation

Sieve Size	Contractor's Concrete mix Gradation (Percent passing by weight)
2 inch (50 mm)	*
1-1/2 inch (37.5 mm)	*
1 inch (25.0 mm)	*
3/4 inch (19.0 mm)	*
1/2 inch (12.5 mm)	*
3/8 inch (9.5 mm)	*
No. 4 (4.75 mm)	*
No. 8 (2.36 mm)	*
No. 16 (1.18 mm)	*
No. 30 (600 μ m)	*
No. 50 (300 μ m)	*
No. 100 (150 μ m)	*

501-2.2 Cement. Cement shall conform to the requirements of:

- ASTM C150 Type II.
- ASTM C595 Type IP, IS, IL

501-2.3 Cementitious materials.

a. Fly ash. Fly ash shall meet the requirements of ASTM C618, with the exception of loss of ignition, where the maximum shall be less than 6%. Fly ash shall have a Calcium Oxide (CaO) content of less than 15% and a total alkali content less than 3% per ASTM C311. The Contractor shall furnish the previous three most recent, consecutive ASTM C618 reports for each source of fly ash proposed in the concrete mix, and shall furnish each additional report as they become available during the project. The reports can be used for acceptance or the material may be tested independently by the Resident Project Representative (RPR).

b. Slag cement (ground granulated blast furnace (GGBF)). Slag cement shall conform to ASTM C989, Grade 100 or Grade 120. Slag cement shall be used only at a rate between 25% and 55% of the total cementitious material by mass.

c. Raw or calcined natural pozzolan. Natural pozzolan shall be raw or calcined and conform to ASTM C618, Class N, including the optional requirements for uniformity and effectiveness in controlling Alkali-Silica reaction and shall have a loss on ignition not exceeding 6%. Class N pozzolan for use in mitigating Alkali-Silica Reactivity shall have a total available alkali content less than 3%.

501-2.4 Joint seal. The joint seal for the joints in the concrete pavement shall meet the requirements of Item P-605 and shall be of the type specified in the plans.

CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) - PAGE 1 OF 2

1. COORDINATION
 - A. CONTRACTOR PROGRESS MEETINGS - THE OWNER, ENGINEER AND CONTRACTOR WILL HOLD PROGRESS MEETINGS ON A COORDINATED SCHEDULE DURING CONSTRUCTION. OPERATIONAL SAFETY WILL BE A STANDING AGENDA ITEM IN SUCH MEETINGS.
 - B. SCOPE OR SCHEDULE CHANGES - THE OWNER AND/OR ENGINEER WILL CALL SUCH COORDINATION CONFERENCES AS MAY SEEM EXPEDIENT TO HIM FOR THE PURPOSE OF ASSURING COORDINATION OF THE WORK COVERED BY THIS CONTRACT AND/OR SCOPE OR SCHEDULE CHANGES. THE CONTRACTOR SHALL ATTEND ALL SUCH CONFERENCES.
 - C. FAA ATO COORDINATION - THERE ARE NO DIRECT IMPACT TO  FAA EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE FAA TECH OPS WHEN WORKING IN THE VICINITY OF PAPI'S AND REIL'S.
 - D. THE CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS 150/5370-10H (OR LATEST EDITION)
2. PHASING

DURING PERFORMANCE OF THIS PROJECT, THE AIRPORT RUNWAYS, TAXIWAYS, AND AIRCRAFT PARKING APRONS SHALL REMAIN IN USE BY AIRCRAFT TO THE MAXIMUM EXTENT POSSIBLE. THE PROJECT SHALL BE PHASED TO REDUCE OPERATIONAL IMPACTS AT THE AIRPORT.

 - A. PHASE ELEMENTS - IF NECESSARY FOR A GIVEN PHASE, EACH PHASE OF THE CONSTRUCTION SAFETY DRAWINGS SHALL DETAIL THE AREAS CLOSED TO AIRCRAFT OPERATIONS, ESTIMATED DURATION OF CLOSURES, TAXI ROUTES, ARFF ACCESS ROUTES, CONSTRUCTION STAGING AREAS, CONSTRUCTION ACCESS AND HAUL ROUTES, NAVAID IMPACTS, LIGHTING AND MARKING CHANGES, AVAILABLE RUNWAY LENGTH, DECLARED DISTANCES, HAZARD MARKING AND LIGHTING, AND REQUIRED LEAD TIME FOR NOTAMS.
 - B. CONSTRUCTION SAFETY DRAWINGS - SEE SHEET GC-101 THROUGH GC-103 FOR CONSTRUCTION SAFETY DRAWINGS.
3. AREAS OF OPERATIONS AFFECTED BY CONSTRUCTION ACTIVITY
 - A. IDENTIFICATION OF AFFECTED AREAS - SEE "AIRFIELD AREAS OF OPERATION AFFECTED BY CONSTRUCTION" TABLE AND CONSTRUCTION SAFETY DRAWINGS FOR AIRFIELD AREAS OF OPERATIONS AFFECTED BY CONSTRUCTION.
 - B. MITIGATION EFFORTS - SEE TABLE ON PAGE 2 OF THE CSPP AND CONSTRUCTION SAFETY DRAWINGS FOR MITIGATION EFFORTS OF OPERATIONS AFFECTED BY CONSTRUCTION.
4. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

THE CONTRACTOR MUST NOT CONDUCT ANY CONSTRUCTION ACTIVITY WITHIN NAVIGATIONAL AID RESTRICTED AREAS WITHOUT PRIOR APPROVAL FROM THE LOCAL FAA AIRWAY FACILITIES SECTOR REPRESENTATIVE. NAVIGATIONAL AIDS INCLUDE INSTRUMENT LANDING SYSTEM COMPONENTS, VERY HIGH-FREQUENCY OMNI-DIRECTIONAL RANGE STATIONS, AND AIRPORT SURVEILLANCE RADAR. SUCH RESTRICTED AREAS ARE DEPICTED ON CONSTRUCTION PLANS.
5. CONTRACTOR ACCESS
 - A. LOCATION OF STOCKPILED MATERIALS - THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE AROUND HIS CONSTRUCTION STAGING AREA TO SEPARATE HIS BATCH PLANT, MATERIAL STOCKPILE, EQUIPMENT STORAGE, AND PARKING AREAS FROM THE PUBLIC. NO PERSONAL VEHICLES OF CONTRACTOR'S EMPLOYEES WILL BE ALLOWED INSIDE THE SECURED AREA OF THE AIRPORT. ALL MATERIAL DELIVERIES SHALL BE RECEIVED IN THE STAGING AREA RESERVED BY THE CONTRACTOR. NO DELIVERY TRUCKS WILL BE ALLOWED ACCESS TO A SECURED AREA OF THE AIRPORT BEYOND THIS STAGING AREA. STOCKPILED MATERIALS AND EQUIPMENT ARE NOT PERMITTED WITHIN THE ACTIVE RUNWAY SAFETY AREA AND OBSTACLE FREE ZONE. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER AND FAA AIR SPACING OFFICE PRIOR TO LOCATING STOCKPILES OR EQUIPMENT WITHIN THE OBJECT FREE AREA, SAFETY AREA, OR OBSTACLE FREE ZONE. NO STOCKPILE SHALL BE GREATER THAN 15-FT IN HEIGHT.
 - B. VEHICLE AND PEDESTRIAN OPERATIONS - SEE THE CONSTRUCTION SAFETY DRAWINGS FOR CONSTRUCTION SITE PARKING, EQUIPMENT STORAGE AREAS, AND ACCESS AND HAUL ROUTES. VEHICULAR TRAFFIC SHALL ALWAYS YIELD TO AIRCRAFT TRAFFIC.

WHEN ANY VEHICLE, OTHER THAN ONE THAT HAS PRIOR APPROVAL FROM THE AIRPORT OPERATOR, MUST TRAVEL OVER ANY PORTION OF AN AIRCRAFT MOVEMENT AREA, IT WILL BE ESCORTED AND PROPERLY IDENTIFIED. TO OPERATE IN THOSE AREAS DURING DAYLIGHT HOURS, THE VEHICLE MUST HAVE A FLAG OR BEACON ATTACHED TO IT. ANY VEHICLE OPERATING ON THE MOVEMENT AREAS DURING HOURS OF DARKNESS OR REDUCED VISIBILITY MUST BE EQUIPPED WITH A FLASHING DOME-TYPE LIGHT, THE COLOR OF WHICH IS IN ACCORDANCE WITH LOCAL OR STATE CODES.

ALL CONSTRUCTION VEHICLES SHALL BE CLEARLY IDENTIFIED FOR CONTROL PURPOSES BY PROMINENTLY DISPLAYING THE COMPANY NAME ON EACH SIDE OF THE VEHICLE. THE IDENTIFICATION SYMBOLS SHOULD BE A MINIMUM 8-INCH BLOCK-TYPE CHARACTERS OF A CONTRASTING COLOR AND EASY TO READ. THEY MAY BE APPLIED EITHER BY USING TAPE OR A WATER-SOLUBLE PAINT TO FACILITATE REMOVAL. MAGNETIC SIGNS ARE ALSO ACCEPTABLE. IN ADDITION, VEHICLES MUST DISPLAY IDENTIFICATION MEDIA, AS SPECIFIED IN THE APPROVED SECURITY PLAN.

AT 14 CFR PART 139 CERTIFIED AND TOWERED AIRPORTS, ALL VEHICLE OPERATORS HAVING ACCESS TO THE MOVEMENT AREA MUST BE FAMILIAR WITH AIRPORT PROCEDURES FOR THE OPERATION OF GROUND VEHICLES AND THE CONSEQUENCES OF NONCOMPLIANCE OR BE ESCORTED BY SOMEONE WHO IS.

 VEHICULAR TRAFFIC LOCATED IN OR CROSSING AN ACTIVE MOVEMENT AREA MUST HAVE A WORKING TWO-WAY RADIO IN CONTACT WITH THE CONTROL TOWER OR BE ESCORTED BY A PERSON IN RADIO CONTACT WITH THE TOWER. THE DRIVER, THROUGH PERSONAL OBSERVATION, SHOULD CONFIRM THAT NO AIRCRAFT IS APPROACHING THE VEHICLE POSITION. CONSTRUCTION PERSONNEL MAY OPERATE IN A MOVEMENT AREA WITHOUT TWO-WAY RADIO COMMUNICATION PROVIDED A NOTAM IS ISSUED CLOSING THE AREA AND THE AREA IS PROPERLY MARKED TO PREVENT INCURSIONS. TWO-WAY RADIO COMMUNICATIONS ARE REQUIRED BETWEEN CONTRACTORS AND THE AIRPORT TRAFFIC CONTROL TOWER.
6. WILDLIFE MANAGEMENT

IF APPLICABLE, THE CONTRACTOR SHALL REVIEW AND ADHERE TO THE CONTENTS OF THE AIRPORT OPERATOR'S WILDLIFE HAZARD MANAGEMENT PLAN. THE CONTRACTOR SHALL ALSO REVIEW AC 150/5000-33, HAZARDOUS WILDLIFE ATTRACTANTS ON OR NEAR AIRPORTS, AND CERTALERT 98-05, GRASSES ATTRACTIVE TO HAZARDOUS WILDLIFE (www.faa.gov). THE CONTRACTOR SHALL CAREFULLY CONTROL AND CONTINUOUSLY REMOVE WASTE OR LOOSE MATERIALS THAT MIGHT ATTRACT WILDLIFE. CONTRACTOR PERSONNEL MUST BE AWARE OF AND AVOID CONSTRUCTION ACTIVITIES THAT CAN CREATE WILDLIFE HAZARDS ON AIRPORTS. THE CONTRACTOR SHALL MITIGATE THE FOLLOWING ITEMS.

 - A. TRASH - THE CONTRACTOR SHALL PERFORM TRASH CLEAN-UP ON A DAILY BASIS.
 - B. STANDING WATER - THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION TO AVOID STANDING WATER.
 - C. TALL GRASS AND SEEDS - THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF SECTION T-901, SEEDING OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

THE CONTRACTOR SHALL ENSURE THAT THE PAVEMENT SURFACES ARE KEPT CLEAN FROM DIRT, MUD, AND OTHER DEBRIS FROM THE CONTRACTOR'S EQUIPMENT. FREQUENT CLEAN UP IN THE VICINITY OF CONTRACTOR'S WORK AREAS IS REQUIRED. SEE AC 150/5210-24, FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT (www.faa.gov) FOR FURTHER INSTRUCTION.
8. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

IF ANY CONSTRUCTION VEHICLE OR EQUIPMENT IS OPERATED WITHIN AIRPORT PROPERTY, THE CONTRACTOR MUST BE ADEQUATELY PREPARED TO EXPEDITIOUSLY CONTAIN AND CLEAN-UP SPILLS RESULTING FROM FUEL OR HYDRAULIC FLUID LEAKS. SPECIAL CARE MUST ALSO BE TAKEN WHEN HANDLING OR TRANSPORTING HAZARDOUS MATERIALS ON AIRPORT PROPERTY. SEE AC 150/5320-15, MANAGEMENT OF AIRPORT INDUSTRIAL WASTE (www.faa.gov), FOR FURTHER INSTRUCTION.
9. NOTIFICATION OF CONSTRUCTION ACTIVITIES
 - A. LIST OF RESPONSIBLE REPRESENTATIVES - A POINT OF CONTACT LIST WILL BE COMPLETED AS PART OF THE SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) AND WILL BE DELIVERED TO ALL PARTIES PRIOR TO CONSTRUCTION.
 - B. NOTICES TO AIRMEN (NOTAM) - BEFORE BEGINNING ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR MUST, THROUGH THE AIRPORT OPERATOR, GIVE NOTICE USING THE NOTAM SYSTEM OF PROPOSED LOCATION, TIME, AND DATE OF COMMENCEMENT OF CONSTRUCTION. UPON COMPLETION OF WORK AND RETURN OF ALL SUCH AREAS TO STANDARD CONDITIONS, THE CONTRACTOR MUST, THROUGH THE AIRPORT OPERATOR, VERIFY THE CANCELLATION OF ALL NOTICES ISSUED VIA THE NOTAM SYSTEM.
 - C. EMERGENCY NOTIFICATION PROCEDURES - IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911, THEN NOTIFY THE ENGINEER AND AIRPORT MANAGER (409) 719-4900.
 - D. COORDINATION WITH ARFF PERSONNEL - ANY DEACTIVATION OF WATER LINES OR HYDRANTS, REROUTING OF ACCESS ROUTES, OR USE OF HAZARDOUS MATERIALS ON THE AIRFIELD SHALL BE COORDINATED AND APPROVED BY THE AIRPORT'S ARFF PERSONNEL PRIOR TO EXECUTION OF SUCH ACTIVITIES.
 - E. NOTIFICATION TO THE FAA - THE CONTRACTOR SHALL ENSURE, THROUGH THE ENGINEER, THAT ALL CONSTRUCTION EQUIPMENT OVER 15 FT IN HEIGHT IS AIR SPACED THROUGH THE APPROPRIATE FAA REGIONAL OR DISTRICT OFFICE PRIOR TO USING SUCH EQUIPMENT ON SITE.
 - F. SHUTDOWN OF ANY NAVAID (AIRPORT OR FAA OWNED) SHALL BE COORDINATED WITH THE FAA ATO 45 DAYS PRIOR TO THE PROPOSED SHUTDOWN. THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL SEVEN DAYS ADVANCE NOTICE TO THE AIRPORT TO COORDINATE WITH THE FAA ATO TECH OPS OFFICE RESPONSIBLE FOR THE FAA FACILITIES. SHUTDOWN OF AN AIRPORT OWNED AND FAA MAINTAINED NAVAID OF 24 HOURS OR GREATER, OR MORE THAN 4 HOURS DAILY ON CONSECUTIVE DAYS, SHALL BE COORDINATED WITH THE FAA ATO A MINIMUM OF 45 DAYS PRIOR TO THE SHUTDOWN  (ATO CENTRAL SERVICE CENTER) (817) 222-4013.
 - G. ATCT CONTACT: (281) 443-5844 : (281) 443-5888
10. INSPECTION REQUIREMENTS
 - A. DAILY INSPECTIONS - THE CONTRACTOR SHALL PERFORM DAILY SAFETY INSPECTIONS TO VERIFY ALL CONSTRUCTION OPERATIONS ARE IN CONFORMANCE WITH THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP).
 - B. INTERIM INSPECTIONS - PRIOR TO OPENING ANY PORTION OF THE AIRPORT TO TRAFFIC, THE CONTRACTOR, ENGINEER, AND AIRPORT OPERATOR SHALL PERFORM A SAFETY INSPECTION OF THE AREA TO BE OPENED TO TRAFFIC TO VERIFY CONFORMANCE WITH THE CSPP AND FAA STANDARDS.
 - C. FINAL INSPECTIONS - PRIOR TO OPENING ANY PORTION OF THE AIRPORT TO TRAFFIC, THE CONTRACTOR, ENGINEER, AND AIRPORT OPERATOR SHALL PERFORM A SAFETY INSPECTION OF THE AREA TO BE OPENED TO TRAFFIC TO VERIFY CONFORMANCE WITH THE CSPP AND FAA STANDARDS.
11. UNDERGROUND UTILITIES

UNDERGROUND UTILITIES EXIST WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS. HOWEVER, ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM THE LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES ON THE GROUND. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

TEXAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT, REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ONE-CALL SYSTEM CENTER BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM PHONE NUMBER IS 1-800-344-8377. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITY COMPANIES ARE MEMBERS OF THE TEXAS ONE-CALL SYSTEM; THEREFORE, THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.
12. PENALTIES

FAILURE OF THE CONTRACTOR (INCLUDING EMPLOYEES) OR ANY OF HIS SUBCONTRACTORS (INCLUDING EMPLOYEES) TO COMPLY WITH ATCT INSTRUCTIONS, THE AIRPORT SAFETY PLAN, OR ANY OF THE OTHER REQUIREMENTS OF THE AIRPORT WHILE OPERATING ON AIRPORT PROPERTY, SHALL BE SUBJECT TO THE FOLLOWING:

 - A. FIRST OFFENSE - THE CONTRACTOR SHALL RECEIVE A FINE OF \$1,000.00, AND THE VEHICLE OPERATOR WILL RECEIVE A LOSS OF DRIVING PRIVILEGES ON THE AIRPORT. IN ADDITION, ANY FINES OR PENALTIES IMPOSED ON THE AIRPORT AS A RESULT OF THE INCIDENT WILL BE ASSESSED TO THE CONTRACTOR.
 - B. SECOND OFFENSE - THE CONTRACTOR SHALL RECEIVE A FINE OF \$5,000.00 TO BE DEDUCTED FROM ANY MONIES DUE HIM, AND THE VEHICLE OPERATOR WILL RECEIVE A LOSS OF DRIVING PRIVILEGES ON THE AIRPORT. IN ADDITION, ANY FINE OR PENALTIES IMPOSED ON THE AIRPORT AS A RESULT OF THE INCIDENT WILL BE ASSESSED TO THE CONTRACTOR.
 - C. THIRD OFFENSE - WORK WILL BE SUSPENDED. THE CONTRACTOR (INCLUDING EMPLOYEES) AND ANY OF HIS SUBCONTRACTORS (INCLUDING EMPLOYEES) WHO WILL OPERATE GROUND VEHICLES ON THE AIRPORT SHALL SUCCESSFULLY COMPLETE, FOR A SECOND TIME, FORMALIZED AIRPORT SAFETY TRAINING, TO BE CONDUCTED BY AIRPORT STAFF. WHEN THE CONTRACTOR'S EMPLOYEES HAVE COMPLETED AIRPORT SAFETY TRAINING TO THE SATISFACTION OF THE OWNER, WORK MAY CONTINUE AT THE DISCRETION OF THE OWNER.
13. SPECIAL CONDITIONS

NONE
14. RUNWAY AND TAXIWAY VISUAL AIDS
 - A. GENERAL - ALL AIRPORT MARKINGS, LIGHTING, SIGNS, AND VISUAL NAVAIDS THAT ARE IN OPERATION MUST BE CLEAR FROM ALL OBSTRUCTIONS. ALL



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AGREEMENT FOR THIS WORK.

REGISTRATION NO.

F-5713



BY	DATE	DESCRIPTION	ADDITION NO. 2	REV.
	03/22/22			1



JACK BROOKS REGIONAL AIRPORT JEFFERSON COUNTY, TEXAS	TAXIWAY A REHABILITATION
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CONSTRUCTION SAFETY & PHASING NOTES 1	JOB NO.: 20A12501 DATE: MARCH. 2022 DESIGNED BY: KKR DRAWN BY: KKR
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BAR IS ONE INCH ON ORIGINAL DRAWING 0  1 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DRAWING NUMBER GC-001
SHEET NUMBER 4	

CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) - PAGE 2 OF 2

TEMPORARY MARKINGS, SIGNS, LIGHTS, OR OTHER VISUAL AIDS MUST BE SECURED IN PLACE TO PREVENT PROP WASH, JET BLAST, WING VORTICES, OR OTHER WIND CURRENTS.

B. MARKINGS - ALL TEMPORARY OR PERMANENT RUNWAY AND TAXIWAY VISUAL AIDS SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF FAA AC 150/5340-1 (www.faa.gov). MARKINGS FOR THIS PROJECT INCLUDE THE FOLLOWING:

- TEMPORARILY CLOSED RUNWAYS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING RUNWAY CLOSURE MARKERS ON TOP OF THE RUNWAY DESIGNATION MARKERS. SEE DETAILS ON CONSTRUCTION SAFETY DRAWINGS FOR CLOSED RUNWAY MARKER DETAIL.
- PARTIALLY CLOSED RUNWAYS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING TEMPORARY MARKING AND LIGHTING FOR THE PARTIALLY CLOSED RUNWAY. SEE DETAILS ON CONSTRUCTION SAFETY DRAWINGS FOR PARTIALLY CLOSED RUNWAY DETAIL.
- DISPLACED THRESHOLDS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING TEMPORARY MARKING AND LIGHTING FOR THE DISPLACED THRESHOLD, INCLUDING RELOCATING EXISTING NAVIGATIONAL AIDS. SEE DETAILS ON CONSTRUCTION SAFETY DRAWINGS FOR TEMPORARY DISPLACED THRESHOLD DETAIL.
- TEMPORARILY CLOSED TAXIWAYS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING TAXIWAY CLOSURE MARKERS AT THE ENTRANCE TO THE CLOSED TAXIWAY FROM THE ADJACENT RUNWAY. THE TAXIWAY CLOSURE MARKERS SHALL BE INSTALLED INSIDE THE RUNWAY SAFETY AREA. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL LOW PROFILE BARRICADES AT THE ENTRANCE TO THE CLOSED TAXIWAY FROM AN ADJACENT TAXIWAY. BARRICADES SHALL BE INSTALLED OUTSIDE ALL ACTIVE TAXIWAY SAFETY AREAS. SEE DETAILS ON CONSTRUCTION SAFETY DRAWINGS FOR CLOSED TAXIWAY MARKER AND LOW-PROFILE AIRCRAFT BARRICADE DETAILS.

C. LIGHTING AND VISUAL NAVAIDS - ALL TEMPORARY LIGHTING FOR RUNWAY AND TAXIWAY SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION OF FAA AC 150/5340-30 AND 150/5345-50 (www.faa.gov). THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ISOLATION TRANSFORMERS ASSOCIATED WITH ANY RUNWAY OR TAXIWAY LIGHT FIXTURES THAT ARE BEING DISCONNECTED.

IF APPLICABLE, ALL CONSTRUCTION, ALTERATION, OR REMOVAL OF FAA OWNED EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE APPROVED FAA REIMBURSABLE AGREEMENT. NO WORK SHALL BE COMPLETED ON FAA OWNED EQUIPMENT PRIOR TO COMPLETION OF THE FAA REIMBURSABLE AGREEMENT.

D. SIGNS - THE CONTRACTOR SHALL INSTALL ALL SIGNS IN ACCORDANCE WITH THE MOST RECENT EDITION OF FAA AC 150/5345-44 AND 150/5340-18. ANY SIGN THAT IS NOT PERFORMING ITS NORMAL FUNCTION MUST BE COVERED OR REMOVED TO PREVENT MISLEADING PILOTS.

15. MARKING AND SIGNS FOR ACCESS ROUTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY MARKINGS AND SIGNAGE FOR ALL ACCESS ROUTES TO AND FROM THE SITE TO BE USED BY CONTRACTOR PERSONNEL, SUBCONTRACTOR PERSONNEL, OR DELIVERY OPERATIONS. ALL SIGNAGE IN THE AIR OPERATIONS AREA SHALL BE FRANGIBLY MOUNTED.

16. HAZARD MARKING AND LIGHTING

A. PURPOSE - HAZARD MARKING AND LIGHTING PREVENTS PILOTS FROM ENTERING AREAS CLOSED TO AIRCRAFT AND PREVENTS CONTRACTOR PERSONNEL FROM ENTERING AREAS OPEN TO AIRCRAFT.

B. EQUIPMENT - THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN LOW-PROFILE BARRICADES IN HAZARDOUS AREAS INSIDE MOVEMENT AREAS. BARRICADES SHALL RESTRICT ACCESS AND MAKE HAZARDS OBVIOUS TO AIRCRAFT, PERSONNEL, AND VEHICLES. DURING PERIODS OF LOW VISIBILITY AND AT NIGHT, BARRICADES SHALL BE EQUIPPED WITH RED FLASHING OR STEADY BURNING LIGHTS. THE SPACING OF BARRICADES SHALL BE SUCH THAT A BREACH IS PHYSICALLY PREVENTED BARRING A DELIBERATE ACT. IF BARRICADES ARE INTENDED TO PREVENT PEDESTRIANS, THEN THEY SHALL BE LINKED. SEE DETAILS ON CONSTRUCTION SAFETY DRAWINGS FOR LOW-PROFILE AIRCRAFT BARRICADE DETAIL. (THE CONTRACTOR SHALL PROVIDE A REPRESENTATIVE CONTACT AVAILABLE 24 HOURS A DAY FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES.)

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17. WORK ZONE LIGHTING FOR NIGHTTIME CONSTRUCTION

ALL WORK CONDUCTED AT NIGHT SHALL BE ACCCOMPANIED BY ADEQUATE LIGHT FACILITIES TO COMPLETE THE WORK. ALL LIGHT FACILITIES SHALL BE AIMED OR SHIELDED AS NECESSARY TO AVOID IMPACTING AIRCRAFT OR ATCT OPERATIONS. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A LIGHTING PLAN SHOWING THE LOCATION AND AIMING DIRECTION OF ALL LIGHT FACILITIES PRIOR TO THE COMPLETION OF ANY NIGHT WORK.

18. PROTECTION OF SAFETY AREAS, OBJECT FREE AREAS, OBJECT FREE ZONES, AND APPROACH/DEPARTURE SURFACES.

A. RUNWAY SAFETY AREAS (RSA) - NO WORK SHALL BE PERMITTED WITHIN AN ACTIVE RUNWAY SAFETY AREA. IF REQUIRED, ADJUSTMENTS TO THE RSA DIMENSIONS THROUGH RESTRICTED OPERATIONS SHALL BE COORDINATED WITH THE FAA AIRPORTS REGIONAL OR DISTRICT OFFICE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ENSURE ADEQUATE DISTANCE PROTECTION FOR BLAST PROJECTION, AS NEEDED. ALL OPEN TRENCHES OR EXCAVATIONS WITHIN THE LIMITS OF THE RSA SHALL BE PROMINENTLY MARKED WITH RED OR ORANGE FLAGS AND BACK FILLED OR COVERED PRIOR TO OPENING THE RUNWAY TO OPERATIONS. IN ADDITION, EROSION CONTROL MEASURES SHALL BE PROVIDED IN THE RSA TO PREVENT RUTS, HUMPS, OR DEPRESSIONS INSIDE THE LIMITS OF THE RSA.

B. RUNWAY OBJECT FREE AREAS (ROFA) - NO MATERIAL SHALL BE STOCKPILED INSIDE THE LIMITS OF THE ACTIVE ROFA UNLESS APPROVED BY AIR SPACING THROUGH THE APPROPRIATE FAA AIRPORTS REGIONAL OR DISTRICT OFFICE.

C. TAXIWAY SAFETY AREAS (TSA) - NO WORK SHALL BE PERMITTED WITHIN AN ACTIVE TSA. IF REQUIRED, ADJUSTMENTS TO THE TAXIWAY TSA DIMENSIONS THROUGH RESTRICTED OPERATIONS SHALL BE COORDINATED WITH THE FAA AIRPORTS REGIONAL OR DISTRICT OFFICE PRIOR TO CONSTRUCTION. ALL OPEN TRENCHES OR EXCAVATIONS WITHIN THE LIMITS OF THE TSA SHALL BE PROMINENTLY MARKED WITH RED OR ORANGE FLAGS AND BACK FILLED OR COVERED PRIOR TO OPENING THE TAXIWAY TO OPERATIONS. IN ADDITION, EROSION CONTROL MEASURES SHALL BE PROVIDED IN THE TSA TO PREVENT RUTS, HUMPS, OR DEPRESSIONS INSIDE THE LIMITS OF THE TSA.

D. TAXIWAY OBJECT FREE AREAS (TOFA) - NO CONSTRUCTION SHALL BE PERMITTED INSIDE AN ACTIVE TOFA UNLESS THE TAXIWAY HAS BEEN RESTRICTED TO OPERATIONS REQUIRING A TOFA EQUAL TO THAT OF THE TOFA AVAILABLE. IF REQUIRED, CONSTRUCTION MAY BE PERMITTED INSIDE THE TOFA IF THE TAXIWAY CENTERLINE MARKINGS ARE OFFSET WITH CENTERLINE REFLECTORS OR LIGHTING, OR APPROPRIATE NOTAMS ARE ISSUED. CONSTRUCTION MAY ALSO BE PERMITTED INSIDE THE TOFA IF A FIVE FOOT WING TIP CLEARANCE IS MAINTAINED FOR ALL CONSTRUCTION EQUIPMENT AND VEHICLES. IN THIS SCENARIO, FLAGGERS AND WING WALKERS MUST BE USED TO DIRECT TRAFFIC THROUGH THE CONSTRUCTION SITE.

E. OBSTACLE FREE ZONE (OFZ) - NO PERSONNEL, MATERIAL, OR EQUIPMENT SHALL PENETRATE THE OFZ WHILE THE RUNWAY IS OPEN TO OPERATIONS. THE DIMENSIONS OF THE OFZ ARE AS DEFINED IN FAA AC 150/5300-13 (www.faa.gov). (THE CONTRACTOR SHALL PROVIDE FLAGGERS TO ENSURE NO EQUIPMENT OR PERSONNEL IS PRESENT INSIDE AN ACTIVE OFZ.)

F. APPROACH/DEPARTURE SURFACES - ALL CONTRACTOR PERSONNEL, MATERIALS, AND EQUIPMENT SHALL REMAIN CLEAR OF THE APPLICABLE THRESHOLD SITING SURFACES AS DEFINED IN APPENDIX 2, "RUNWAY END SITING REQUIREMENTS" OF FAA AC 150/5300-13 (www.faa.gov). CONSTRUCTION ACTIVITIES THAT REQUIRE PENETRATION INTO THE THRESHOLD SITING SURFACE SHALL BE ACCOMPLISHED THROUGH DISPLACING OR PARTIALLY CLOSING THE RUNWAY. SUCH CONSTRUCTION ACTIVITIES SHALL REQUIRE COORDINATION WITH THE FAA AIRPORTS REGIONAL OR DISTRICT OFFICE.

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19. OTHER LIMITATIONS ON CONSTRUCTION

A. PROHIBITIONS - THE USE OF TALL EQUIPMENT (I.E. CRANES, CONCRETE PUMPS) SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

OPEN FLAME WELDING AND TORCH CUTTING OPERATIONS ARE NOT PERMITTED UNLESS ADEQUATE FIRE SAFETY PRECAUTIONS ARE PROVIDED AND THESE OPERATIONS ARE AUTHORIZED BY THE AIRPORT OPERATOR AND THE ENGINEER.

ELECTRICAL BLASTING CAPS SHALL NOT BE PERMITTED WITHIN 1,000-FT OF THE AIRPORT PROPERTY. FLARE POTS ARE NOT PERMITTED WITHIN THE AIR OPERATIONS AREA.

B. RESTRICTIONS - WORK INSIDE THE GA APRON OBJECT FREE AREA SHALL BE PERFORMED DURING NIGHTTIME UNLESS OTHERWISE APPROVED BY THE AIRPORT.

AIRFIELD AREAS AFFECTED BY CONSTRUCTION

OPERATIONAL REQUIREMENT	EXISTING CONDITION	PHASE 1	Phase 2A	Phase 2B	BY	DATE	DESCRIPTION	ADDITION NO. 2	REV.
RUNWAY 12-30 ARC	C-III	SAME	SAME	SAME	RUNWAY 12 DECLARED DISTANCES	TORA: 6,750 TODA: 6,750 ASDA: 6,675 LDA: 6,675	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590
RUNWAY 16-34 ARC	B-III	CLOSED	SAME	SAME					
					RUNWAY 30 DECLARED DISTANCES	TORA: 6,750 TODA: 6,750 ASDA: 6,750 LDA: 6,750	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590	TORA: 5,590 TODA: 5,590 ASDA: 5,590 LDA: 5,590
					RUNWAY 16 DECLARED DISTANCES	TORA: 5,070 TODA: 5,070 ASDA: 5,070 LDA: 5,070	CLOSED CLOSED CLOSED CLOSED	SAME SAME SAME SAME	SAME SAME SAME SAME
					RUNWAY 34 DECLARED DISTANCES	TORA: 5,070 TODA: 5,070 ASDA: 5,070 LDA: 5,070	CLOSED CLOSED CLOSED CLOSED	SAME SAME SAME SAME	SAME SAME SAME SAME
					RUNWAY 12 APPROACH MINIMUMS RUNWAY 30 APPROACH MINIMUMS RUNWAY 16 APPROACH MINIMUMS RUNWAY 34 APPROACH MINIMUMS	PRECISION ¾ MILE ¾ MILE ¾ MILE	SAME SAME CLOSED CLOSED	SAME SAME SAME SAME	SAME SAME SAME SAME
					RUNWAY 12 NAVAIDS RUNWAY 30 NAVAIDS RUNWAY 16 NAVAIDS RUNWAY 34 NAVAIDS	LOC, ILS, RNAV RNAV VOR VOR/DME, RNAV	SAME SAME CLOSED CLOSED	LOC SAME SAME SAME	LOC SAME SAME SAME
					TAXIWAY A TAXIWAY B TAXIWAY D TAXIWAY E TAXIWAY F	ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III	CLOSED CLOSED ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III	ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III ADG-III / TDG-III	ADG-III / TDG-III ADG-III / TDG-III CLOSED ADG-III / TDG-III ADG-III / TDG-III

RUNWAY DATA					
RUNWAY END NUMBER	AIRPLANE DESIGN GROUP	AIRCRAFT APPROACH CATEGORY	MINIMUM SAFETY AREA PRIOR TO THE THRESHOLD	MINIMUM UNOBSTRUCTED APPROACH SLOPE	RSA WIDTH DIVIDED BY 2
RUNWAY 12	III	C	1,000-FT	50:1	250-FT
RUNWAY 30	III	C	1,000-FT	34:1	250-FT
RUNWAY 16	III	B	600-FT	34:1	150-FT
RUNWAY 34	III	B	600-FT	34:1	150-FT

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REV.	DATE	DESCRIPTION	BY
1	03/22/22	ADDITION NO. 2	JEF

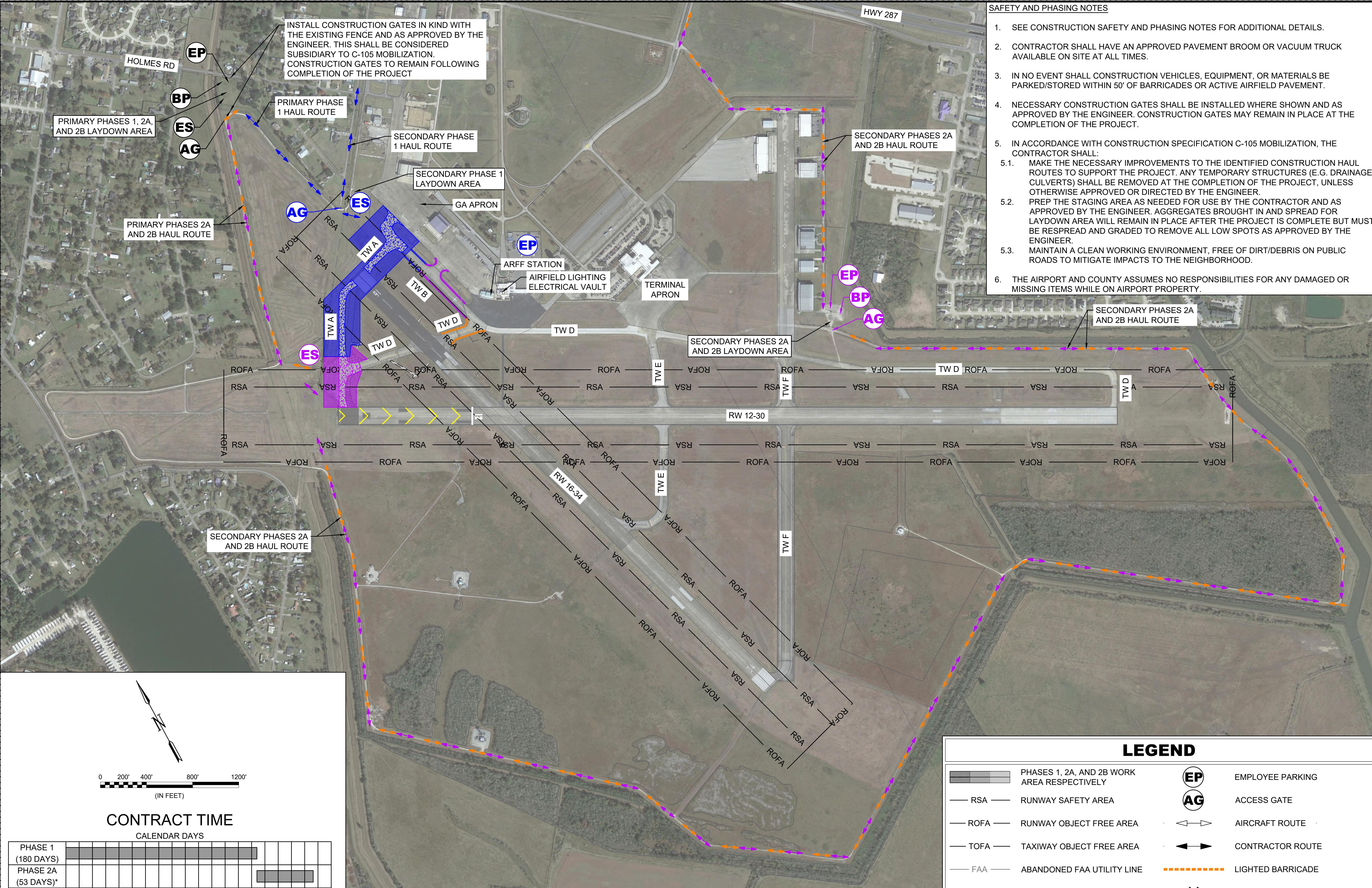


JACK BROOKS
REGIONAL AIRPORT
JEFFERSON COUNTY, TEXAS

TAXIWAY A REHABILITATION

SAFETY AND PHASING NOTES

- SEE CONSTRUCTION SAFETY AND PHASING NOTES FOR ADDITIONAL DETAILS.
- CONTRACTOR SHALL HAVE AN APPROVED PAVEMENT BROOM OR VACUUM TRUCK AVAILABLE ON SITE AT ALL TIMES.
- IN NO EVENT SHALL CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS BE PARKED/STORED WITHIN 50' OF BARRICADES OR ACTIVE AIRFIELD PAVEMENT.
- NECESSARY CONSTRUCTION GATES SHALL BE INSTALLED WHERE SHOWN AND AS APPROVED BY THE ENGINEER. CONSTRUCTION GATES MAY REMAIN IN PLACE AT THE COMPLETION OF THE PROJECT.
- IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION C-105 MOBILIZATION, THE CONTRACTOR SHALL:
 - MAKE THE NECESSARY IMPROVEMENTS TO THE IDENTIFIED CONSTRUCTION HAUL ROUTES TO SUPPORT THE PROJECT. ANY TEMPORARY STRUCTURES (E.G. DRAINAGE CULVERTS) SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT, UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER.
 - PREP THE STAGING AREA AS NEEDED FOR USE BY THE CONTRACTOR AND AS APPROVED BY THE ENGINEER. AGGREGATES BROUGHT IN AND SPREAD FOR LAYDOWN AREA WILL REMAIN IN PLACE AFTER THE PROJECT IS COMPLETE BUT MUST BE RESPREAD AND GRADED TO REMOVE ALL LOW SPOTS AS APPROVED BY THE ENGINEER.
 - MAINTAIN A CLEAN WORKING ENVIRONMENT, FREE OF DIRT/DEBRIS ON PUBLIC ROADS TO MITIGATE IMPACTS TO THE NEIGHBORHOOD.
- THE AIRPORT AND COUNTY ASSUMES NO RESPONSIBILITIES FOR ANY DAMAGED OR MISSING ITEMS WHILE ON AIRPORT PROPERTY.



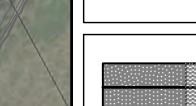
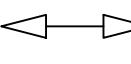
CONTRACT TIME

CALENDAR DAYS

PHASE 1 (180 DAYS)	0	50	100	150	200	250
PHASE 2A (53 DAYS)*						
PHASE 2B (7 DAYS)*						

*PHASE 2 SHALL BE COMPLETED WITHIN 60 DAYS TO MINIMIZE CONSTRUCTION IMPACT ON RUNWAY 12-30 OPERATIONS. LIQUIDATED DAMAGES IN THE AMOUNT OF \$1,500/DAY SHALL BE ASSESSED FOR DELAYS BEYOND THIS SCHEDULE.

LEGEND

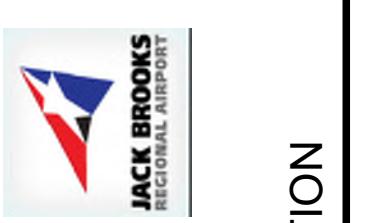
	PHASES 1, 2A, AND 2B WORK AREA RESPECTIVELY		EMPLOYEE PARKING
	RUNWAY SAFETY AREA		ACCESS GATE
	RUNWAY OBJECT FREE AREA		AIRCRAFT ROUTE
	TAXIWAY OBJECT FREE AREA		CONTRACTOR ROUTE
	ABANDONED FAA UTILITY LINE		LIGHTED BARRICADE
	FAA UTILITY LINE (BY OTHERS)		RUNWAY CLOSURE MARKER
	EQUIPMENT STORAGE		TAXIWAY CLOSURE MARKER
	BATCH PLANT		ELECTRICAL JUMPER

GC-100

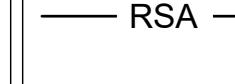
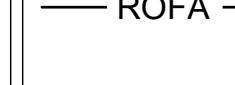
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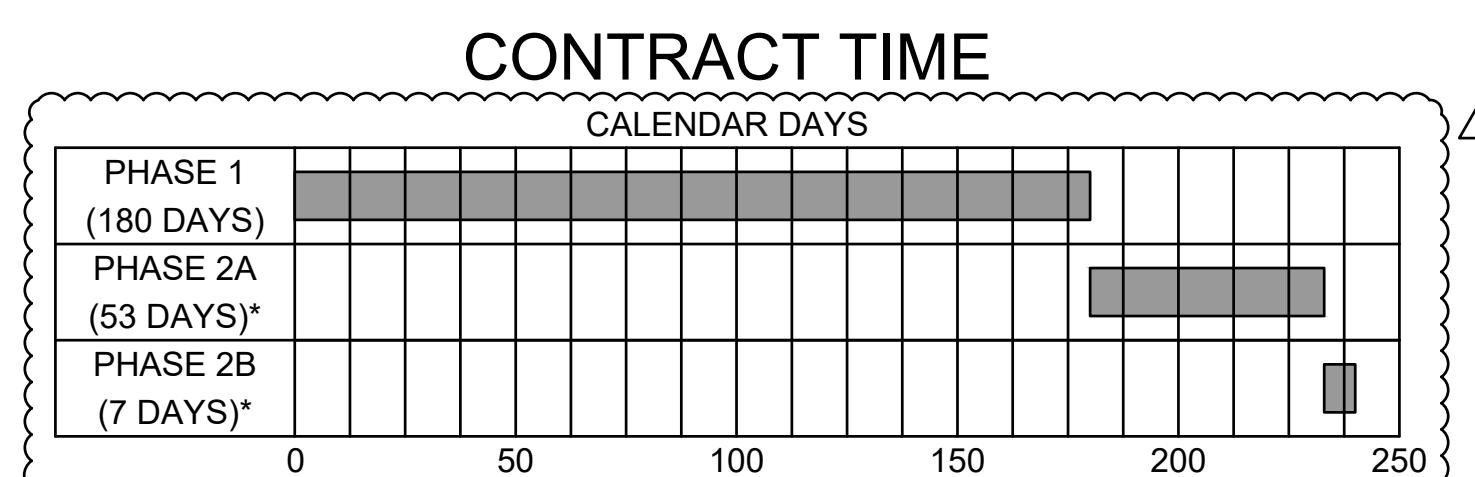


REV.	DATE	DESCRIPTION	BY
1	03/22/22	ADDENDUM NO. 2	JEF

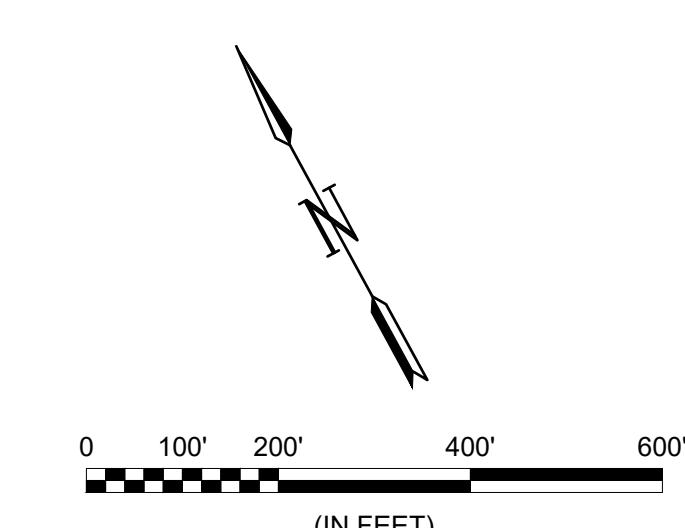


JACK BROOKS
REGIONAL AIRPORT
JEFFERSON COUNTY, TEXAS
TAXIWAY A REHABILITATION

LEGEND	
	PHASE 1 WORK AREA
	EMPLOYEE PARKING
	RUNWAY SAFETY AREA
	RUNWAY OBJECT FREE AREA
	TAXIWAY OBJECT FREE AREA
	ABANDONED FAA UTILITY LINE
	FAA UTILITY LINE (BY OTHERS)
	EQUIPMENT STORAGE
	BATCH PLANT
	ACCESS GATE
	AIRCRAFT ROUTE
	CONTRACTOR ROUTE
	LIGHTED BARRICADE
	RUNWAY CLOSURE MARKER
	TAXIWAY CLOSURE MARKER
	ELECTRICAL JUMPER



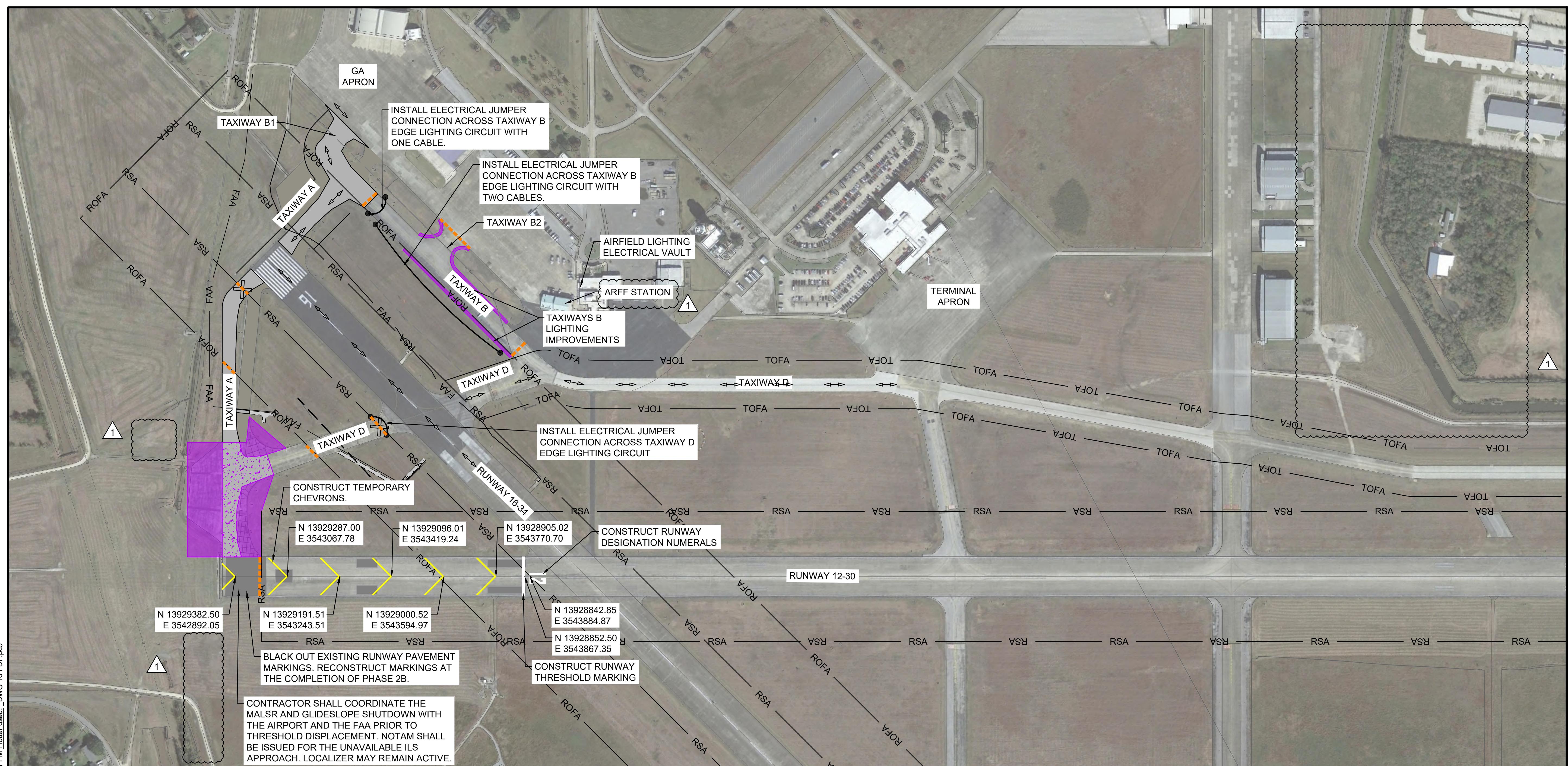
ITEMS OF WORK	
1. ISSUE NOTAM FOR PROPOSED WORK. 2. CONSTRUCT TEMPORARY TAXILANE CENTERLINE ON THE GA APRON. 3. INSTALL BARRICADES AND PAVEMENT CLOSURE MARKERS. 4. REMOVE EXISTING TAXIWAY A PAVEMENT EAST OF RUNWAY 12 RSA. 5. CONSTRUCT CONCRETE TAXIWAY A PAVEMENT SECTION EAST OF RUNWAY 12 RSA. 6. INSTALL ELECTRICAL IMPROVEMENTS, DRAINAGE IMPROVEMENTS, AND PAVEMENT MARKINGS IN WORK AREA.	



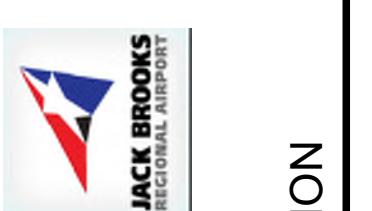
PHASING NOTES

- SEE CONSTRUCTION SAFETY AND PHASING NOTES FOR ADDITIONAL DETAILS.
- LIGHTED BARRICADES SHOWN ARE FOR GRAPHIC PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF LIGHTED BARRICADES REQUIRED TO COMPLETE THE WORK AS SHOWN AND MUST BE IN ACCORDANCE WITH CURRENT FAA ADVISORY CIRCULARS.
- CONTRACTOR SHALL HAVE AN APPROVED PAVEMENT BROOM OR VACUUM TRUCK AVAILABLE ON SITE AT ALL TIMES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SUFFICIENT LIGHTING TO ADEQUATELY ILLUMINATE THE WORK AREA DURING NIGHTTIME OPERATIONS. PORTABLE LIGHTING SHALL NOT BE ORIENTED IN SUCH A WAY TO CAUSE IMPACT TO AIRPORT OPERATIONS.
- IN NO EVENT SHALL CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS BE PARKED/STORED WITHIN 50' OF BARRICADES OR ACTIVE AIRFIELD PAVEMENT.

JOB NO.: 20A12501
DATE: MARCH. 2022
DESIGNED BY: KKR
DRAWN BY: KKR
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DRAWING NUMBER
GC-101
SHEET NUMBER
6B



REV.	DATE	DESCRIPTION	BY
1	03/22/22	ADDENDUM NO. 2	JEF



JACK BROOKS REGIONAL AIRPORT JEFFERSON COUNTY, TEXAS	TAXIWAY A REHABILITATION
--	--------------------------

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2A

JOB NO.: 20A12501 DATE: MARCH. 2022 DESIGNED BY: KKR DRAWN BY: KKR

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DRAWING NUMBER
GC-102

SHEET
NUMBER
7

LEGEND

	PHASE 2A WORK AREA
	RUNWAY SAFETY AREA
	ROFA
	TOFA
	FAA
	FAA
	EQUIPMENT STORAGE
	BATCH PLANT
	EMPLOYEE PARKING
	ACCESS GATE
	AIRCRAFT ROUTE
	CONTRACTOR ROUTE
	LIGHTED BARRICADE
	RUNWAY CLOSURE MARKER
	TAXIWAY CLOSURE MARKER
	ELECTRICAL JUMPER

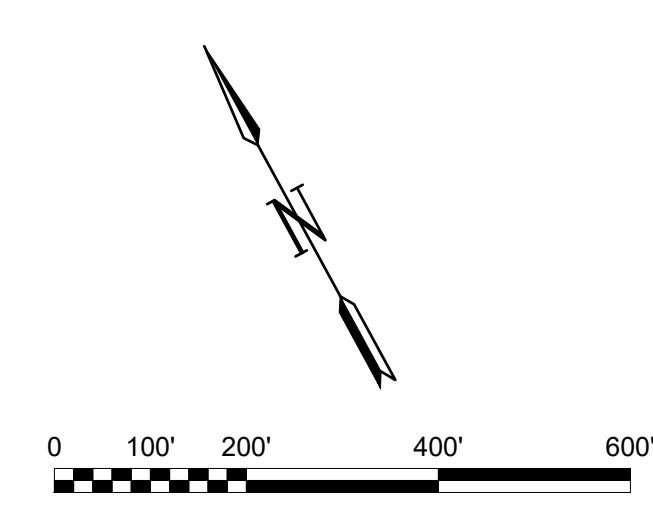
CONTRACT TIME



*PHASE 2 SHALL BE COMPLETED WITHIN 60 DAYS TO MINIMIZE CONSTRUCTION IMPACT ON RUNWAY 12-30 OPERATIONS. LIQUIDATED DAMAGES IN THE AMOUNT OF \$1,500/DAY SHALL BE ASSESSED FOR DELAYS BEYOND THIS SCHEDULE.

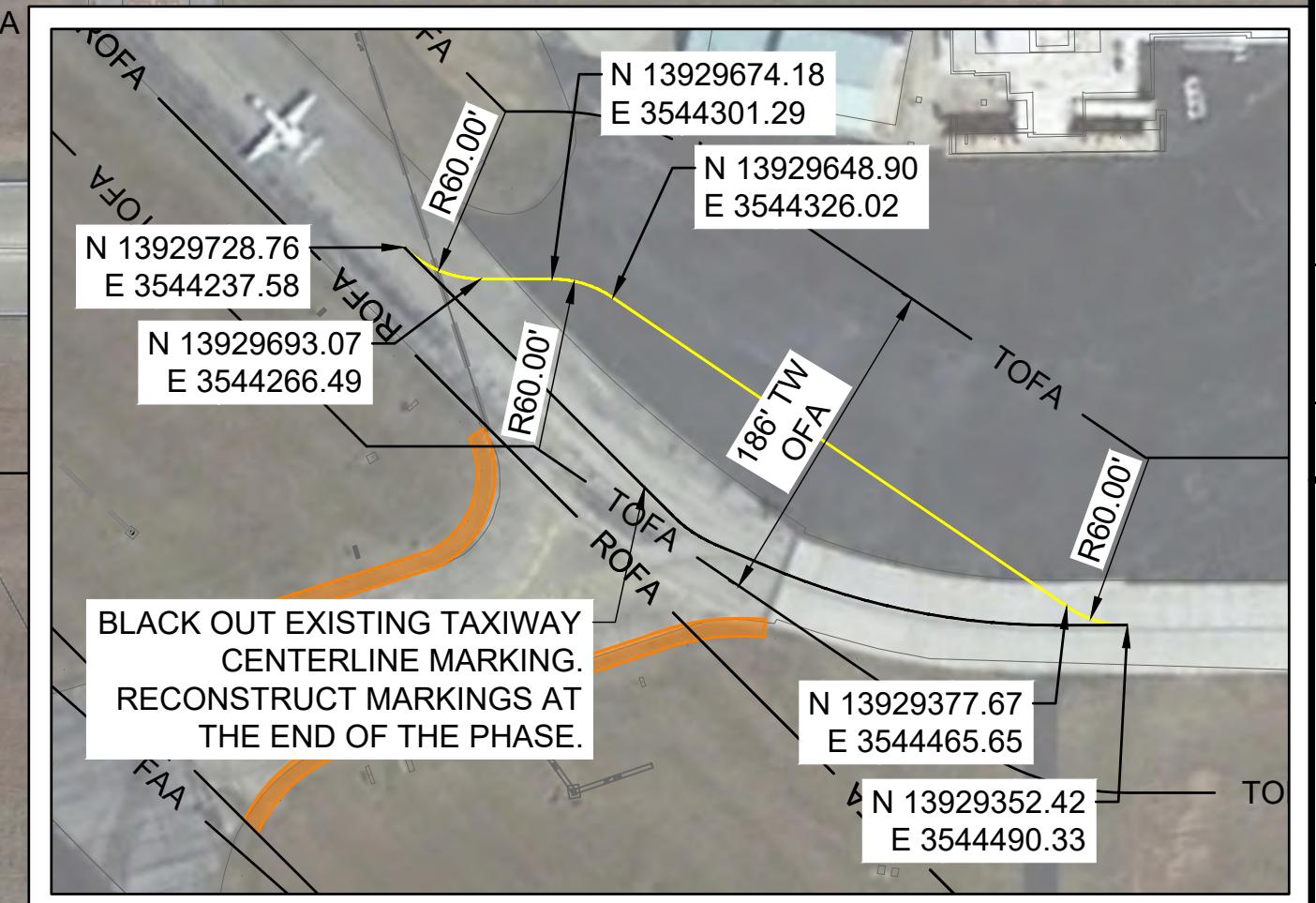
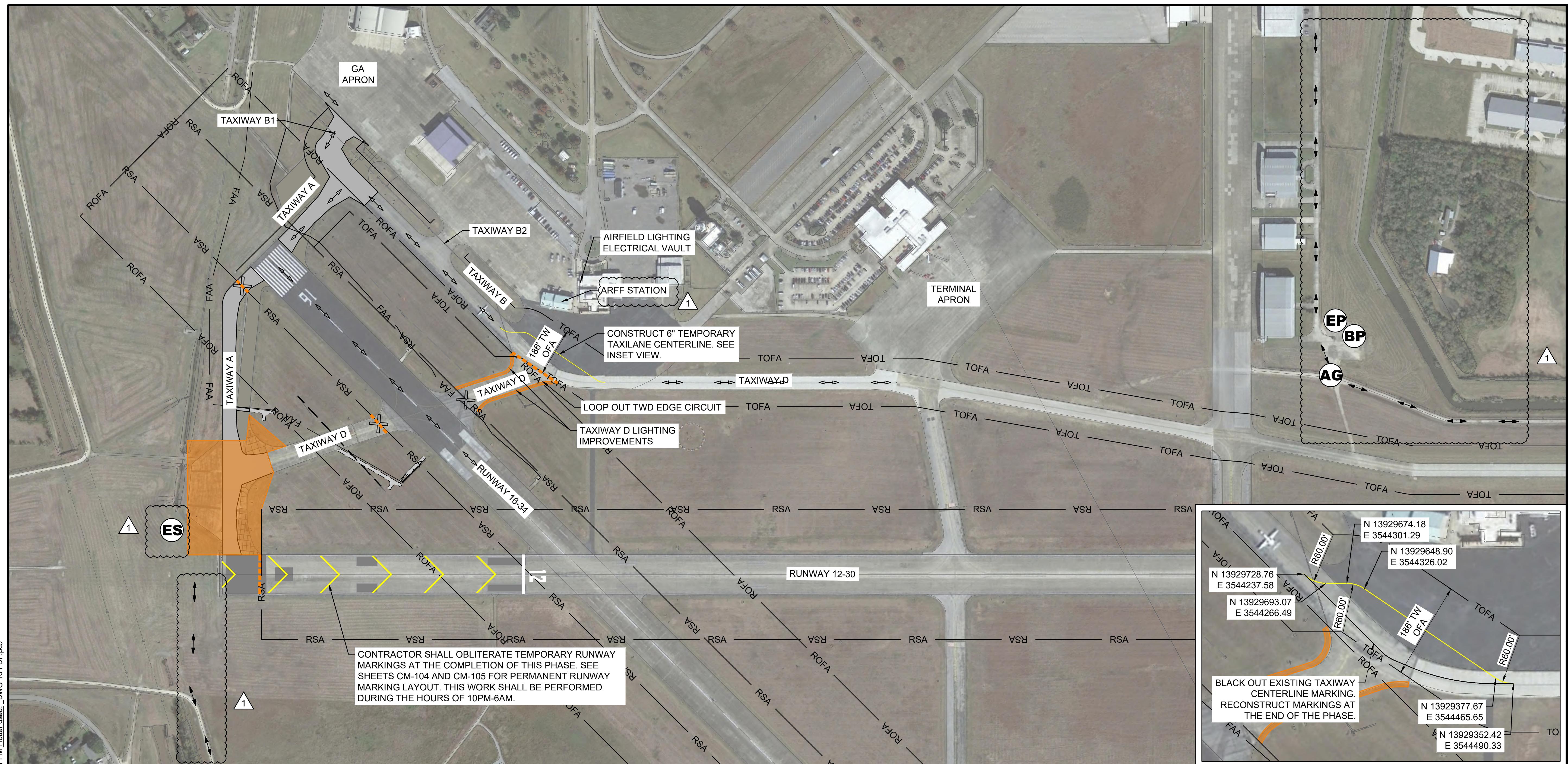
ITEMS OF WORK

- ISSUE NOTAM FOR PROPOSED WORK.
- TEMPORARILY PARTIALLY CLOSE RUNWAY 12-30. THIS WORK SHALL BE PERFORMED DURING THE HOURS OF 10PM-6AM.
- INSTALL BARRICADES AND PAVEMENT CLOSURE MARKERS.
- REMOVE REMAINDER OF EXISTING TAXIWAY A PAVEMENT.
- CONSTRUCT REMAINDER OF CONCRETE TAXIWAY A PAVEMENT SECTION.
- INSTALL ELECTRICAL IMPROVEMENTS, DRAINAGE IMPROVEMENTS, AND PAVEMENT MARKINGS IN WORK AREA.

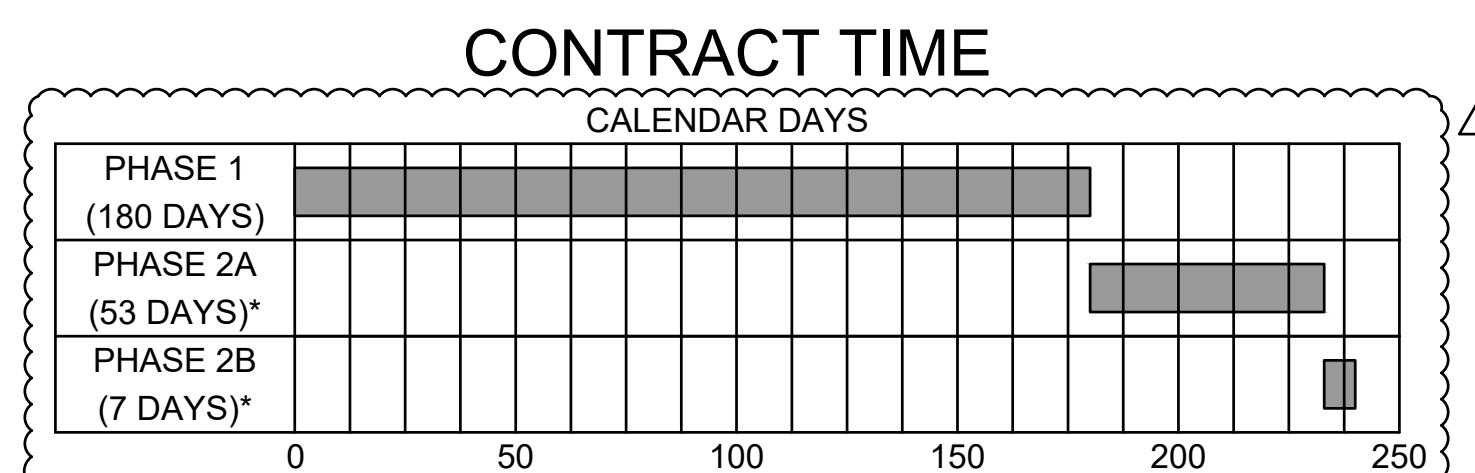


PHASING NOTES:

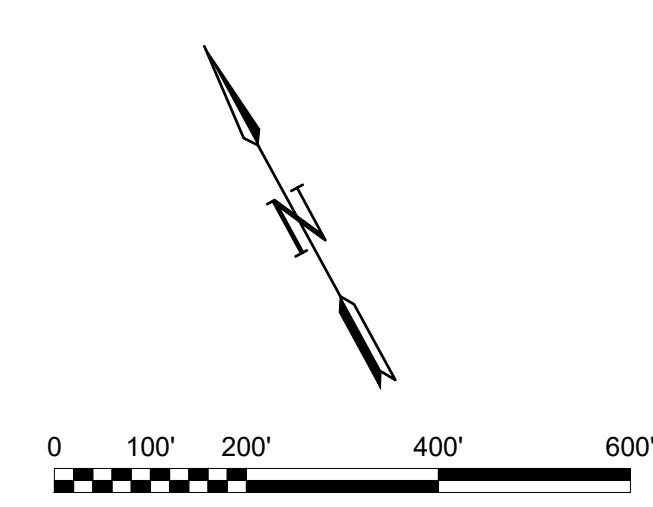
- SEE CONSTRUCTION SAFETY AND PHASING NOTES FOR ADDITIONAL DETAILS.
- LIGHTED BARRICADES SHOWN ARE FOR GRAPHIC PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF LIGHTED BARRICADES REQUIRED TO COMPLETE THE WORK AS SHOWN AND MUST BE IN ACCORDANCE WITH CURRENT FAA ADVISORY CIRCULARS.
- CONTRACTOR SHALL HAVE AN APPROVED PAVEMENT BROOM OR VACUUM TRUCK AVAILABLE ON SITE AT ALL TIMES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SUFFICIENT LIGHTING TO ADEQUATELY ILLUMINATE THE WORK AREA DURING NIGHTTIME OPERATIONS. PORTABLE LIGHTING SHALL NOT BE ORIENTED IN SUCH A WAY TO CAUSE IMPACT TO AIRPORT OPERATIONS.
- IN NO EVENT SHALL CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS BE PARKED/STORED WITHIN 50' OF BARRICADES OR ACTIVE AIRFIELD PAVEMENT.



LEGEND	
	PHASE 2B WORK AREA
	RSA — RUNWAY SAFETY AREA
	ROFA — RUNWAY OBJECT FREE AREA
	TOFA — TAXIWAY OBJECT FREE AREA
	FAA — ABANDONED FAA UTILITY LINE
	FAA — FAA UTILITY LINE (BY OTHERS)
	EMPLOYEE PARKING
	ACCESS GATE
	AIRCRAFT ROUTE
	CONTRACTOR ROUTE
	LITED BARRICADE
	RUNWAY CLOSURE MARKER
	TAXIWAY CLOSURE MARKER
	EQUIPMENT STORAGE
	BATCH PLANT
	ELECTRICAL JUMPER



ITEMS OF WORK	
1. ISSUE NOTAM FOR PROPOSED WORK.	
2. CONSTRUCT TEMPORARY TAXIWAY CENTERLINE MARKING ON TAXIWAY D.	
3. INSTALL BARRICADES AND PAVEMENT CLOSURE MARKERS.	
4. REMOVE REMAINDER OF EXISTING TAXIWAY A PAVEMENT.	
5. CONSTRUCT REMAINDER OF CONCRETE TAXIWAY A PAVEMENT SECTION.	
6. INSTALL ELECTRICAL IMPROVEMENTS, DRAINAGE IMPROVEMENTS, AND PAVEMENT MARKINGS IN WORK AREA.	

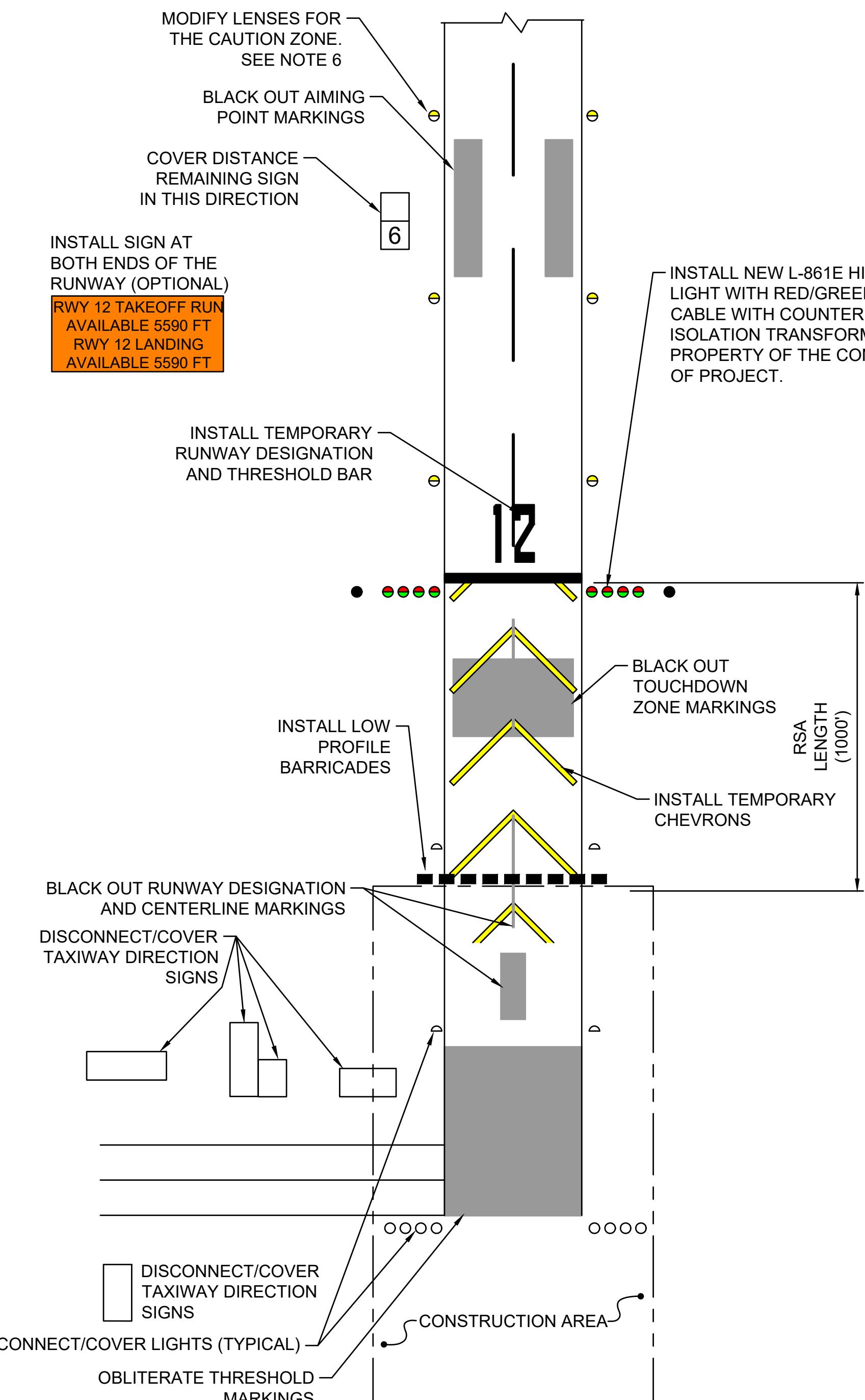


PHASING NOTES:

1. SEE CONSTRUCTION SAFETY AND PHASING NOTES FOR ADDITIONAL DETAILS.
2. LIGHTED BARRICADES SHOWN ARE FOR GRAPHIC PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF LIGHTED BARRICADES REQUIRED TO COMPLETE THE WORK AS SHOWN AND MUST BE IN ACCORDANCE WITH CURRENT FAA ADVISORY CIRCULARS.
3. CONTRACTOR SHALL HAVE AN APPROVED PAVEMENT BROOM OR VACUUM TRUCK AVAILABLE ON SITE AT ALL TIMES.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SUFFICIENT LIGHTING TO ADEQUATELY ILLUMINATE THE WORK AREA DURING NIGHTTIME OPERATIONS. PORTABLE LIGHTING SHALL NOT BE ORIENTED IN SUCH A WAY TO CAUSE IMPACT TO AIRPORT OPERATIONS.
5. IN NO EVENT SHALL CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS BE PARKED/STORED WITHIN 50' OF BARRICADES OR ACTIVE AIRFIELD PAVEMENT.

JACK BROOKS REGIONAL AIRPORT JEFFERSON COUNTY, TEXAS	TAXIWAY A REHABILITATION
CONSTRUCTION SAFETY AND PHASING PLAN - PHASE 2B	
JOB NO.: 20A12501	
DATE: MARCH. 2022	
DESIGNED BY: KKR	
DRAWN BY: KKR	
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DRAWING NUMBER	GC-103
SHEET NUMBER	8

<p>STAGING AREA NOTES</p> <ol style="list-style-type: none"> THE CONTRACTOR'S EMPLOYEES AND VISITORS VEHICLES SHALL PARK IN THE CONTRACTOR'S EMPLOYEE PARKING AREA. ONLY OWNER APPROVED PERSONNEL WILL BE ALLOWED TO ACCESS AND/OR PARK ON AIRPORT PROPERTY. ALL DELIVERIES, MATERIAL OR OTHERWISE, SHALL BE MADE TO THE DELIVERY ADDRESS OF THE CONTRACTOR'S STAGING AREA. THE NAME "JACK BROOKS REGIONAL AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS. THE LOCATION AND SIZE OF THE CONTRACTOR'S STAGING AREA IS SHOWN FOR REFERENCE ONLY. THE EXACT LIMITS OF THE CONTRACTOR'S PARKING AND STAGING AREA FOR MATERIAL STOCKPILING, OFFICE TRAILERS, AND DELIVERIES SHALL BE PROPOSED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER. THE CONTRACTOR STAGING PLANS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMIT(S) TO DEVELOP AND USE THE SITE FOR STAGING AND OTHER ACTIVITIES AS REQUIRED. THE STAGING AREA SHALL BE PREPARED TO A STABLE AND DRAINABLE CONDITION. THE CONTRACTOR MAY HAVE THE OPTION OF ERECTING ADDITIONAL CHAIN-LINK SECURITY FENCING TO DELINEATE AND PROTECT THE AREA. THE CONTRACTOR MAY DO SOME GRADING AND DRAINAGE WORK TO ADAPT THE AREA TO SPECIFIC NEEDS. UPON COMPLETION OF THE WORK, THE AREA WILL BE GRADED AND DRESSED TO THE SATISFACTION OF THE ENGINEER AND OWNER UPON COMPLETION OF THE CONTRACT WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS TO THE STAGING AREA. ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S STAGING AREA SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY AGENCY BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE METERS AND PERMITS. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. NO SEPARATE PAY ITEM SHALL BE MADE FOR ANY ITEM REQUIRED FOR THE CONTRACTOR TO ENCLOSE AND DEVELOP THEIR STAGING AREA. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY LOST OR STOLEN PROPERTY. NO EQUIPMENT OR VEHICLES SHALL BE PARKED WITHIN 10 FEET OF ANY AIRPORT OPERATIONS AREA (AOA) PERIMETER FENCE. <p>BARRICADE NOTES:</p> <ol style="list-style-type: none"> BARRICADES SHALL BE FURNISHED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. BARRICADES SHALL MEET THE REQUIREMENTS OF THE CURRENT FAA ADVISORY CIRCULAR 150/5370-2 AND BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL WEIGHT BARRICADE TO PREVENT DISPLACEMENT. THE METHOD SHALL BE APPROVED BY THE ENGINEER. BARRICADES SHALL BE LOCATED AS DEFINED IN THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP). UNLESS OTHERWISE NOTED, MAXIMUM BARRICADE SPACING SHALL BE 10' O.C. <p>LOW PROFILE AIRCRAFT BARRICADE (MOVEMENT AREAS)</p> <p>SCALE: NONE</p>	<p>BADGING AND SECURITY</p> <ol style="list-style-type: none"> CONTRACTOR SHALL BE RESPONSIBLE FOR AIRPORT SECURITY AT ALL TIMES WHEN IN THE AIRPORT OPERATIONS AREA (AOA). CONTRACTOR SHALL FOLLOW ALL AIRPORT SECURITY POLICIES, PROCEDURES, RULES, AND REGULATIONS WHILE OPERATING VEHICLES AND EQUIPMENT ON THE AOA. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL EMPLOYEES AND SUBCONTRACTORS MEET THE AIRPORT SECURITY REQUIREMENTS WHILE OPERATING VEHICLES AND EQUIPMENT ON THE AOA. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A GATE GUARD AT ALL AOA ENTRANCES. ALL GATE GUARDS MUST OBTAIN AN AIRPORT BADGE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINES ASSESSED TO THE AIRPORT DUE TO THE FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO FOLLOW AIRPORT SECURITY REQUIREMENTS. THE AIRPORT RESERVES THE RIGHT TO SUSPEND AND/OR REVOKE DRIVING PRIVILEGES AND/OR BADGES FOR FAILURE TO COMPLY WITH THE AIRPORT SECURITY REQUIREMENTS. AIRPORT BADGES SHALL BE VISIBLE AT ALL TIMES. 	<p>JACK BROOKS REGIONAL AIRPORT REGISTRATION NO. F-5713</p> <p>JASON E. FRANK 87979 LICENSED PROFESSIONAL ENGINEER</p>	
<p>1</p> <p>GC-201</p>			
<p>2</p> <p>GC-201</p>			
<p>3</p> <p>GC-201</p>	<p>TAXIWAY CLOSURE MARKER</p> <p>SCALE: NONE</p>		
<p>4</p> <p>GC-201</p>	<p>RUNWAY CLOSURE MARKER NOTES:</p> <ol style="list-style-type: none"> LIGHTED RUNWAY CLOSURE MARKER SHALL CONFORM TO THE REQUIREMENTS OF FAA AC 150/5345-55A SPECIFICATION FOR L-893, LIGHTED VISUAL AID TO INDICATE TEMPORARY RUNWAY CLOSURE. DETAIL SHOWS MINIMUM LIGHT SPACING REQUIREMENTS. LIGHTED RUNWAY CLOSURE MARKER SHALL BE INSTALLED ON TOP OF RUNWAY NUMERAL DESIGNATOR OR AS DIRECTED BY THE ENGINEER WHEN WORK IS TAKING PLACE NEAR THE RUNWAY NUMERALS. LIGHTED RUNWAY CLOSURE MARKINGS ARE TO BE SUPPLIED BY THE CONTRACTOR. THE AIRPORT DOES NOT HAVE LIGHTED RUNWAY CLOSURE MARKERS AVAILABLE FOR THE CONTRACTOR. 		
<p>5</p> <p>GC-201</p>			
<p>6</p> <p>GC-201</p>	<p>PORTABLE LIGHTED RUNWAY CLOSURE MARKER (LIGHTED X)</p> <p>SCALE: NONE</p>		
<p>7</p> <p>GC-201</p>	<p>JACK BROOKS REGIONAL AIRPORT CONSTRUCTION SAFETY DETAILS 1</p>		<p>JOB NO.: 20A12501 DATE: MARCH. 2022 DESIGNED BY: KKR DRAWN BY: KKR</p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p> <p>DRAWING NUMBER GC-201</p> <p>SHEET NUMBER 9</p>
<p>8</p> <p>GC-201</p>			
<p>9</p> <p>GC-201</p>			

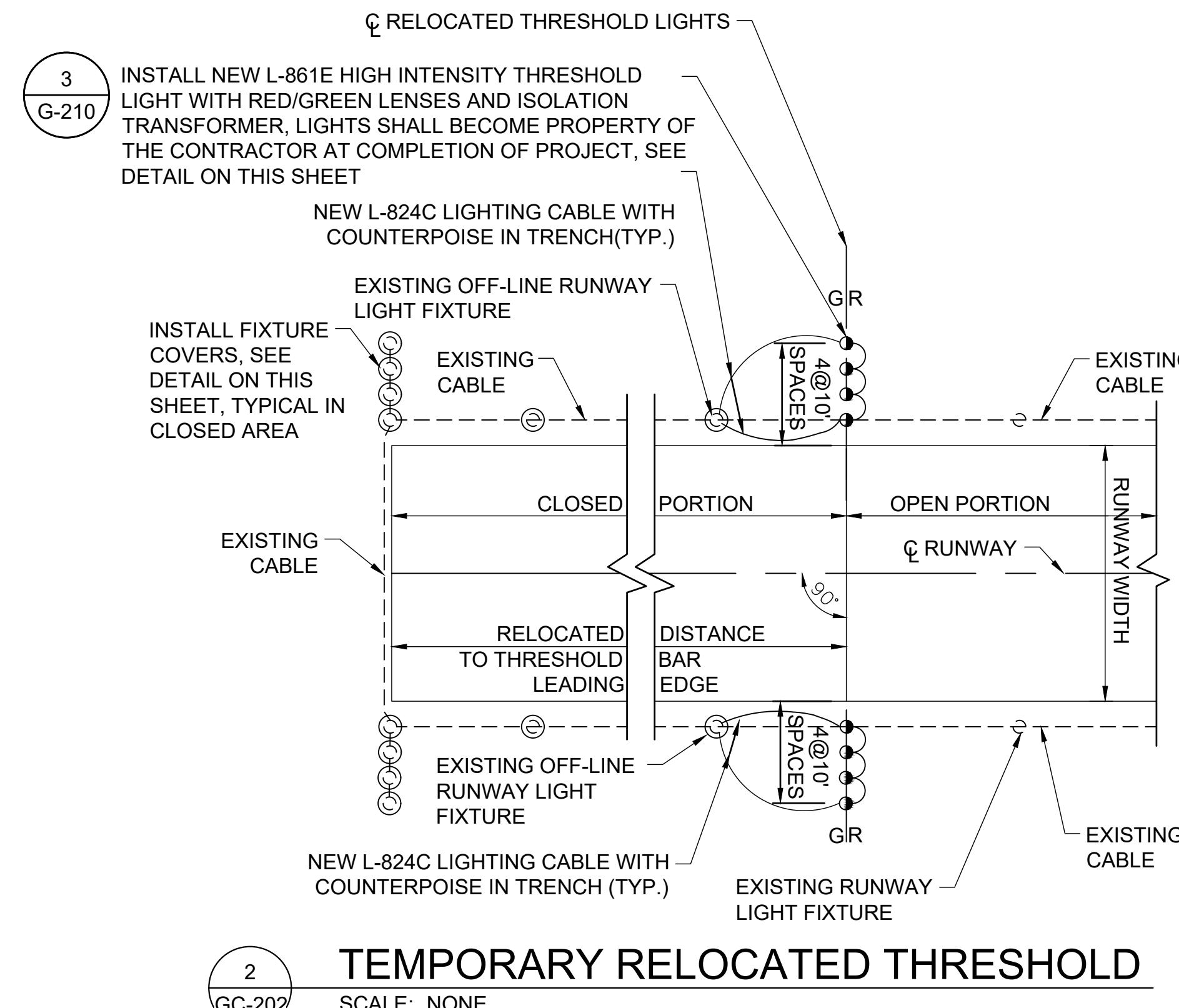


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Last plotted by: Rulabana, Ken K Plot Style: NE Chrono.ctb Plot Scale: 1:1 Plot Date: 3/29/2022 5:12 PM Plotter used: _DWC To PDF.pc3

CLOSED RUNWAY NOTES:

1. PLACE LOW PROFILE BARRICADES AT ALL ACCESS POINTS TO CLOSED SECTION OF RUNWAY.
2. ALL LIGHTS SHALL BE DISCONNECTED OR COVERED BY METHOD APPROVED BY THE ENGINEER.
3. SEE SHEET CM-203 FOR RUNWAY MARKING DETAILS.
4. DISCONNECT CABLES AND CONNECT TEMPORARY AT EXISTING FIXTURES AS DIRECTED BY THE ENGINEER. DISCONNECT TRANSFORMERS IN FIXTURES BETWEEN NORMAL THRESHOLD AND RELOCATED THRESHOLD. CHECK REGULATOR LOADING TO ENSURE PROPER OPERATION. PROTECT ALL CABLE ENDS.
5. TEMPORARY ELECTRICAL BYPASS MAY BE REQUIRED DURING MODIFICATIONS TO RUNWAY CIRCUIT AT TAXIWAY/RUNWAY INTERSECTIONS.
6. RECONFIGURE CAUTION ZONE AND MOVE LIGHTS WITH WHITE/AMBER LENSES TO INDICATE LAST 2,000 FEET OR ONE-HALF THE AVAILABLE RUNWAY LENGTH, WHICHEVER IS LESS, RESTORE WHEN WORK IS COMPLETED.
7. MOW GRASS AND THOROUGHLY PREPARE GROUND AREA PRIOR TO CONSTRUCTION OF DISPLACED THRESHOLD.
8. CONTRACTOR SHALL MAINTAIN THE DISPLACED THRESHOLD IN ACCEPTABLE CONDITIONS AT ALL TIMES.
9. COORDINATE PLACING PAPIS, ILS, AND OTHER NAVIGATIONAL AIDS OFF-LINE DURING PHASES OF WORK WITH TEMPORARY RELOCATED THRESHOLD.
10. ALL NEW FIXTURES AND/OR LENSES TO UPDATE THE RELOCATED THRESHOLD AND CAUTION ZONE EDGE LIGHTING AREAS SHALL BE PAID FOR BY TEMPORARY AIRFIELD LIGHTING.

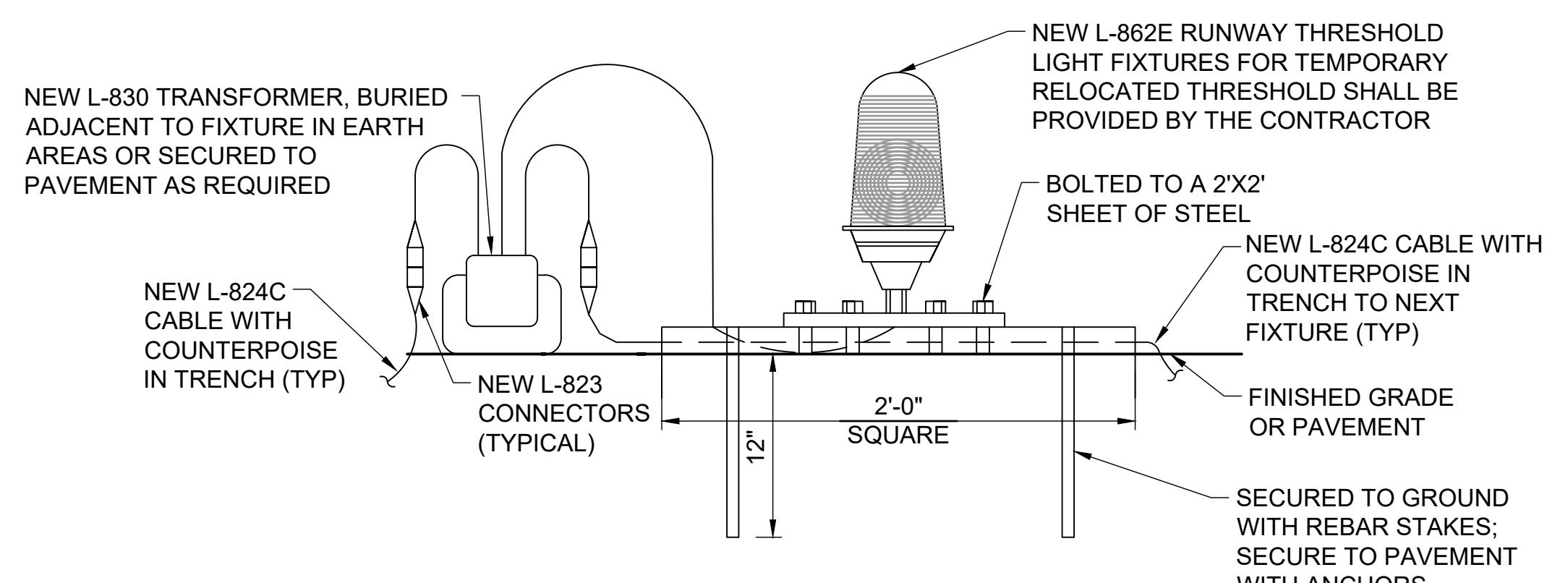
1
GC-202
TEMPORARY PARTIALLY CLOSED RUNWAY
SCALE: NONE



2
GC-202
TEMPORARY RELOCATED THRESHOLD
SCALE: NONE

RELOCATED THRESHOLD NOTES:

1. DISCONNECT CABLES AND CONNECT TEMPORARY AT EXISTING FIXTURES AS DIRECTED BY THE ENGINEER. DISCONNECT TRANSFORMERS IN FIXTURES BETWEEN NORMAL THRESHOLD AND RELOCATED THRESHOLD. CHECK REGULATOR LOADING TO ENSURE PROPER OPERATION. PROTECT ALL CABLE ENDS.
2. TEMPORARY ELECTRICAL BYPASS CIRCUIT MAY BE REQUIRED DURING MODIFICATIONS TO RUNWAY CIRCUIT AT TAXIWAY/RUNWAY INTERSECTIONS.
3. RECONFIGURE CAUTION ZONE AND MOVE WHITE/AMBER LENSES TO INDICATE LAST 2,000 FEET OR ONE-HALF THE AVAILABLE RUNWAY LENGTH, WHICHEVER IS LESS. RESTORE WHEN WORK IS COMPLETED.
4. MOW GRASS AND THOROUGHLY PREPARE GROUND AREA PRIOR TO CONSTRUCTION OF RELOCATED THRESHOLD.
5. CONTRACTOR SHALL MAINTAIN THE RELOCATED THRESHOLD IN ACCEPTABLE CONDITIONS AT ALL TIMES.
6. COORDINATE PLACING REILs AND OTHER NAVIGATIONAL AIDS OFF-LINE DURING PHASES OF WORK WITH TEMPORARY RELOCATED THRESHOLD.



RELOCATED THRESHOLD FIXTURE NOTES:

1. SECURE CABLES IN CONDUIT AND TRANSFORMER NEAR LIGHT TO PAVEMENT TO PREVENT MOVEMENT.
2. BURY CABLES AND TRANSFORMER IN EARTH AREAS.
3. ALTERNATE TO TRENCHING, INSTALL CABLE IN RIGID STEEL CONDUIT, SECURED TO GROUND AND BONDED TO GROUND RODS. INSTALL FLAGS AT 5' INTERVALS TO IDENTIFY LOCATION.

3
GC-202
L-862 HIGH INTENSITY THRESHOLD LIGHT WITH RED/GREEN LENSES AND ISOLATION TRANSFORMER
SCALE: NONE



JACK BROOKS
REGIONAL AIRPORT
JEFFERSON COUNTY, TEXAS

CONSTRUCTION
SAFETY DETAILS 2

JOB NO.: 20A12501
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DRAWN BY: KKR

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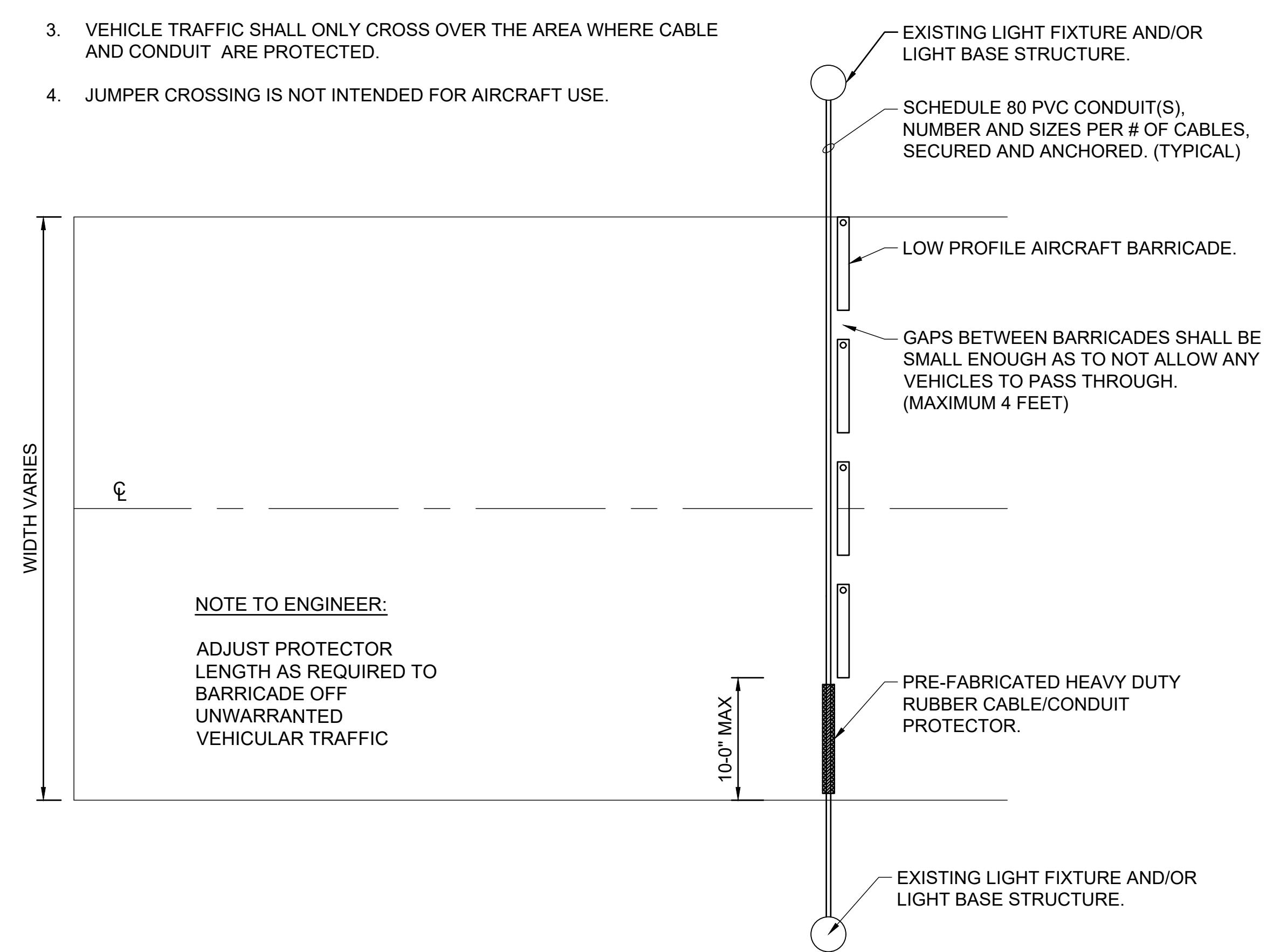
GC-202

SHEET
NUMBER

10

CROSSING PROTECTOR NOTES:

1. CABLE SHALL REMAIN IN CONDUIT FOR ENTIRE JUMPER LENGTH.
2. CONTRACTOR SHALL SUBMIT SUPPORT PROTECTOR PRODUCT DATA SHEETS.
3. VEHICLE TRAFFIC SHALL ONLY CROSS OVER THE AREA WHERE CABLE AND CONDUIT ARE PROTECTED.
4. JUMPER CROSSING IS NOT INTENDED FOR AIRCRAFT USE.

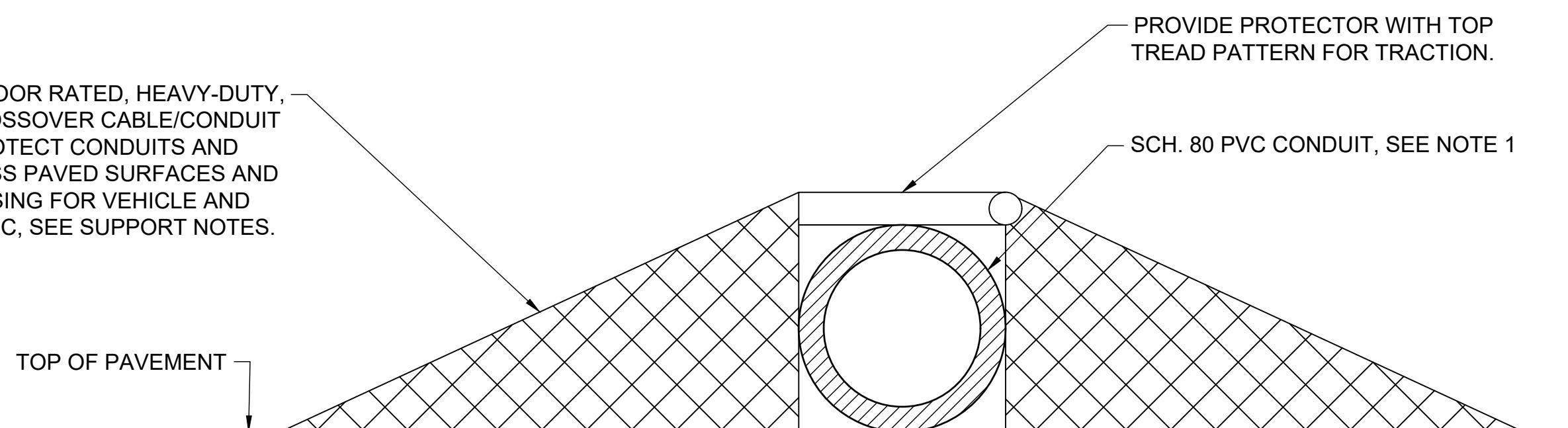


1
GC-203

TYPICAL PAVEMENT JUMPER CROSSING FOR TEMPORARY AIRFIELD LIGHTING

SCALE: NONE

INSTALL NEW OUTDOOR RATED, HEAVY-DUTY, NON-METALLIC, CROSSOVER CABLE/CONDUIT PROTECTOR TO PROTECT CONDUITS AND CABLES RUN ACROSS PAVED SURFACES AND ALLOW SAFE CROSSING FOR VEHICLE AND PEDESTRIAN TRAFFIC, SEE SUPPORT NOTES.



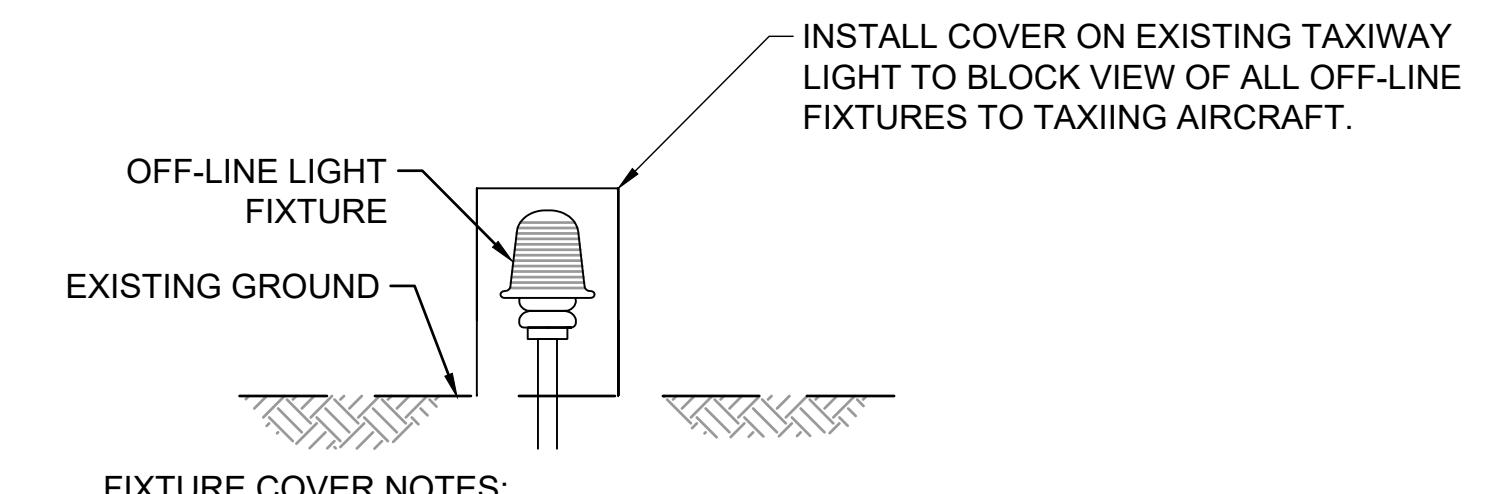
SUPPORT NOTES:

1. SIZE CONDUIT PER NUMBER OF CABLES.
2. SIZE PROTECTOR PER CONDUIT NUMBER AND SIZES.
3. PROTECTOR SHALL EXTEND PARALLEL TO THE CONDUIT FOR THE ENTIRE LENGTH OF THE CONDUIT WHERE SUBJECT TO LIGHT VEHICULAR TRAFFIC.
4. BOLTS SHALL BE INSTALLED AND TORQUED PER MANUFACTURERS RECOMMENDATIONS TO SECURE AND ANCHOR THE COMPLETE PROTECTION SYSTEM.

3
GC-203

ABOVE GROUND TEMPORARY CONDUIT PROTECTOR

SCALE: NONE



Fixture Cover Notes:

1. CONTRACTOR SHALL MAINTAIN THE FIXTURE COVERS IN ACCEPTABLE CONDITIONS AT ALL TIMES.
2. WHEN NO LONGER REQUIRED, THE FIXTURE COVERS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
3. FIXTURE COVERS SHALL BE SECURED TO PREVENT MOVEMENT BY PROP WASH, JET BLAST, OR OTHER WIND CURRENTS.
4. COST FOR PROVIDING, INSTALLING, MAINTAINING AND REMOVING PVC EDGE LIGHT MASK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR TEMPORARY AIRFIELD LIGHTING.

2
GC-203

LIGHT FIXTURE COVER

SCALE: NONE

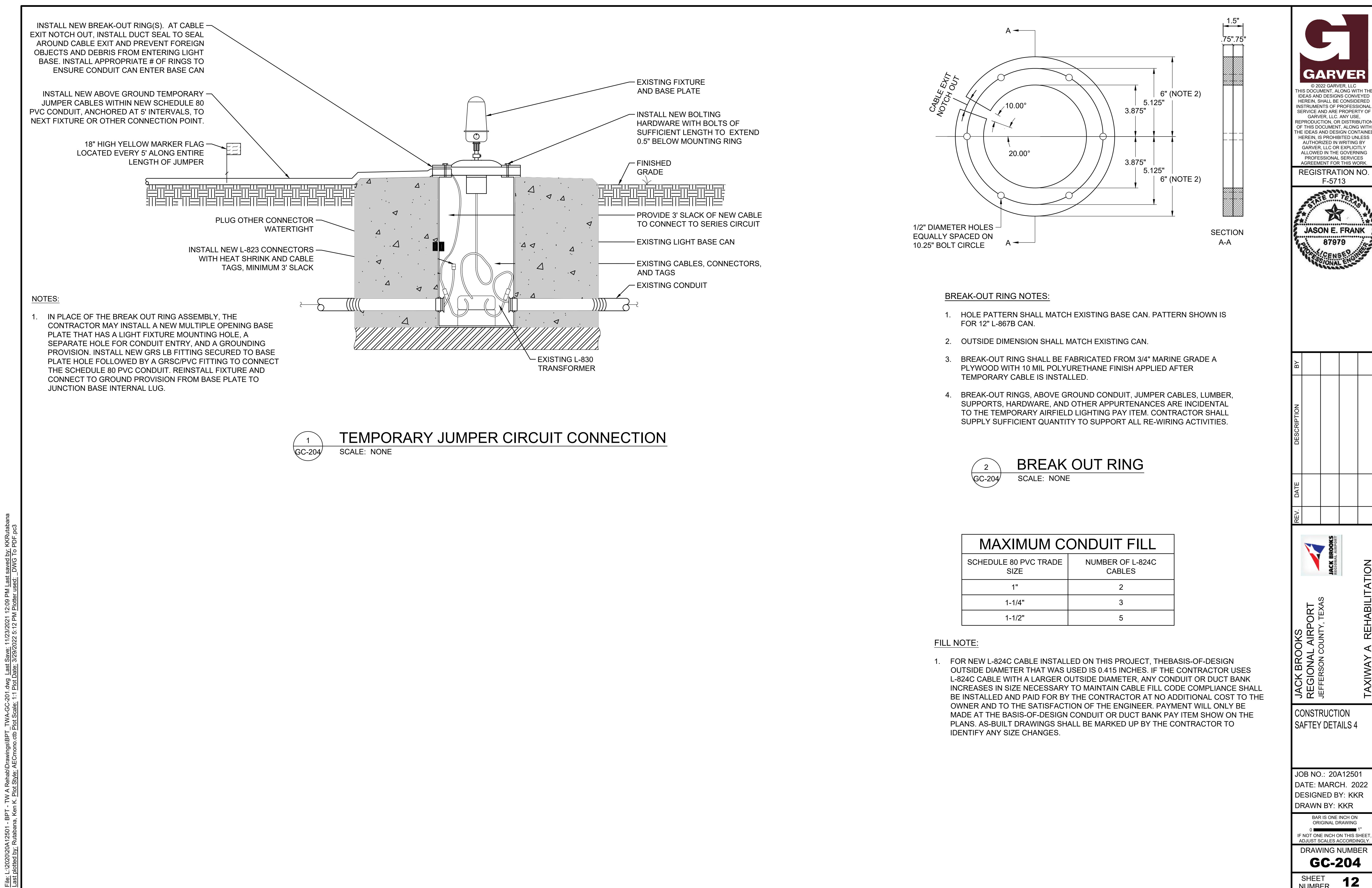


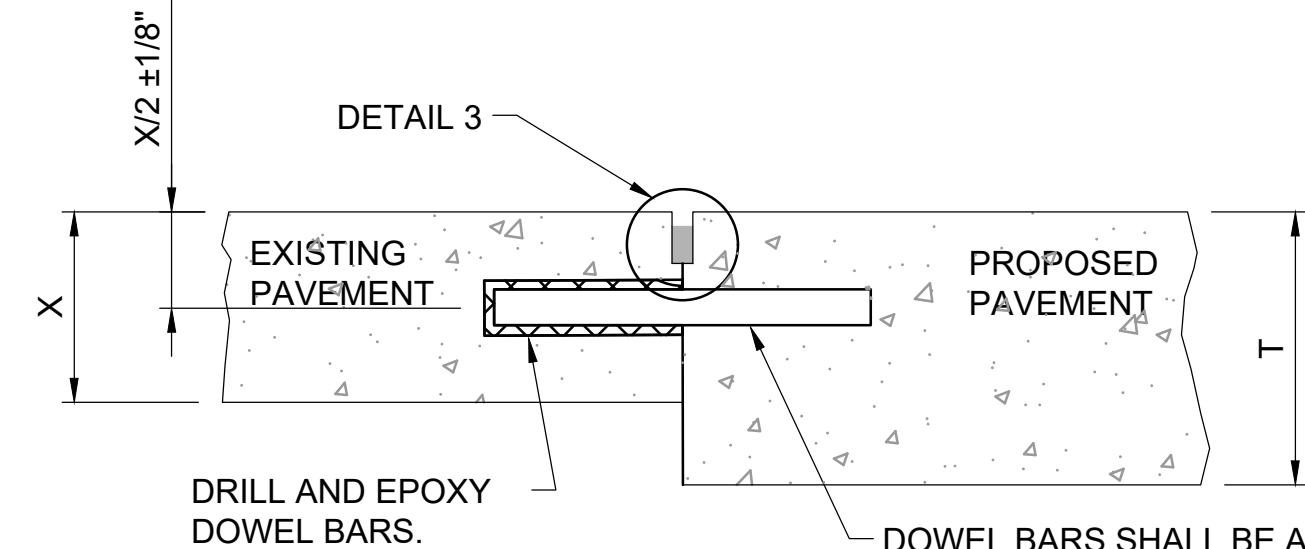
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REGISTRATION NO.
F-5713



| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 |
<th
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |





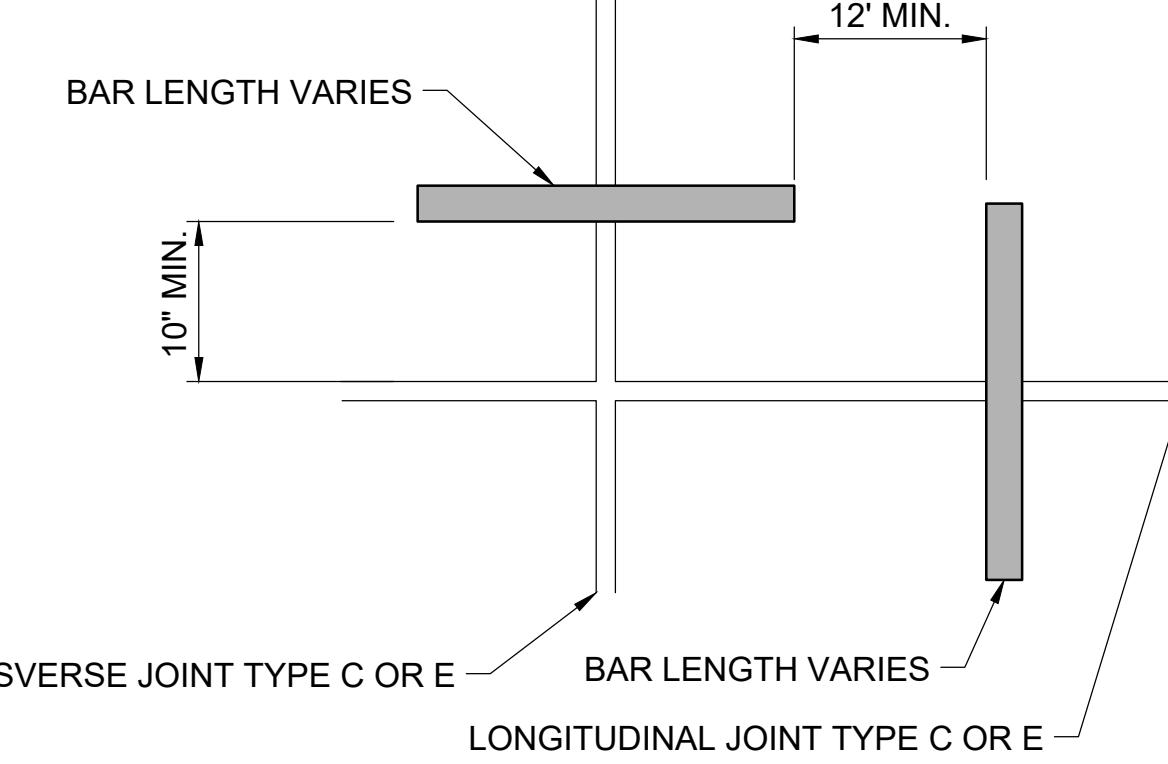
NOTE:
THICKNESS "X" OF EXISTING
PAVEMENT IS UNKNOWN.

TYPE E - DOWELED CONSTRUCTION JOINT AT EXISTING/PROPOSED PAVEMENT

1
CJ-301

SCALE: NONE

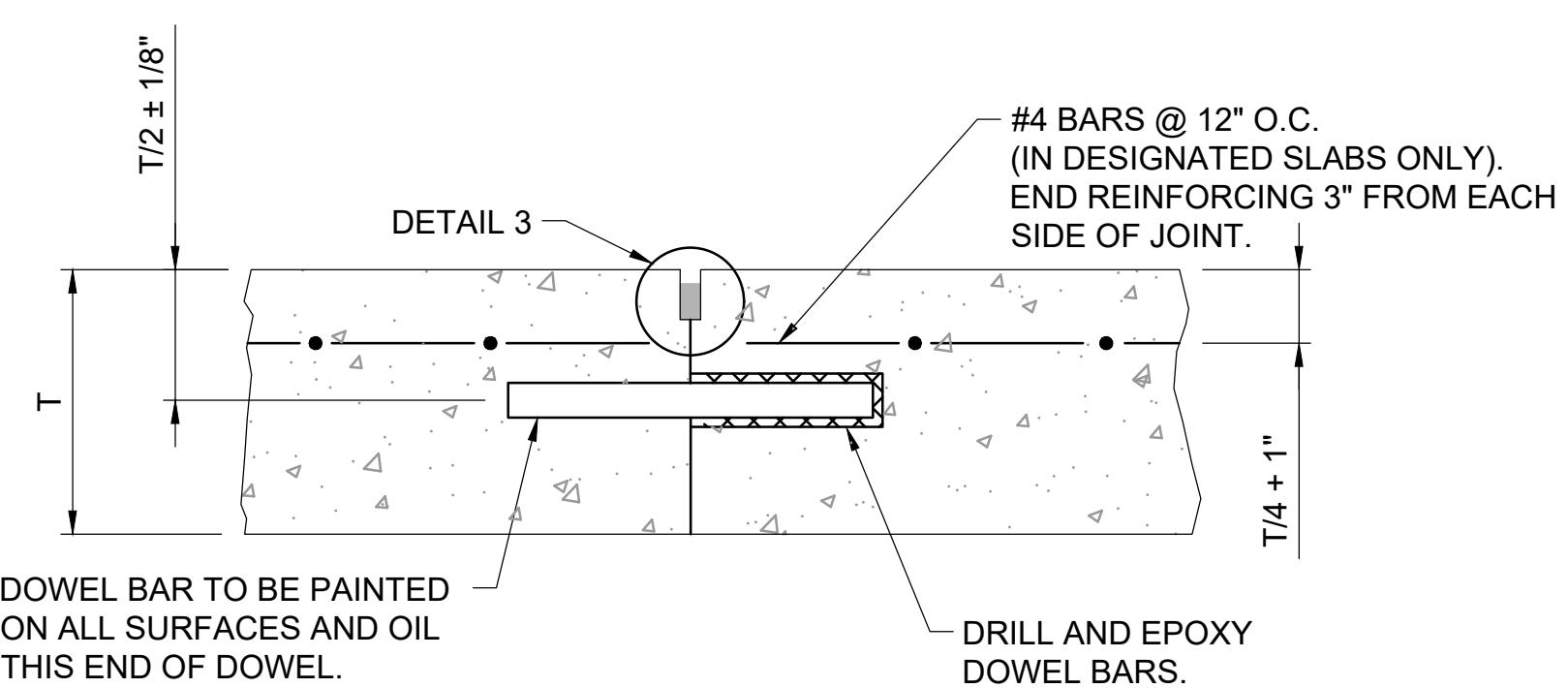
DOWEL BARS SHALL BE AS
SHOWN FOR THE THINNER
PAVEMENT SECTION.



DOWEL BARS AT SLAB CORNERS (PLAN VIEW)

2
CJ-301

SCALE: NONE



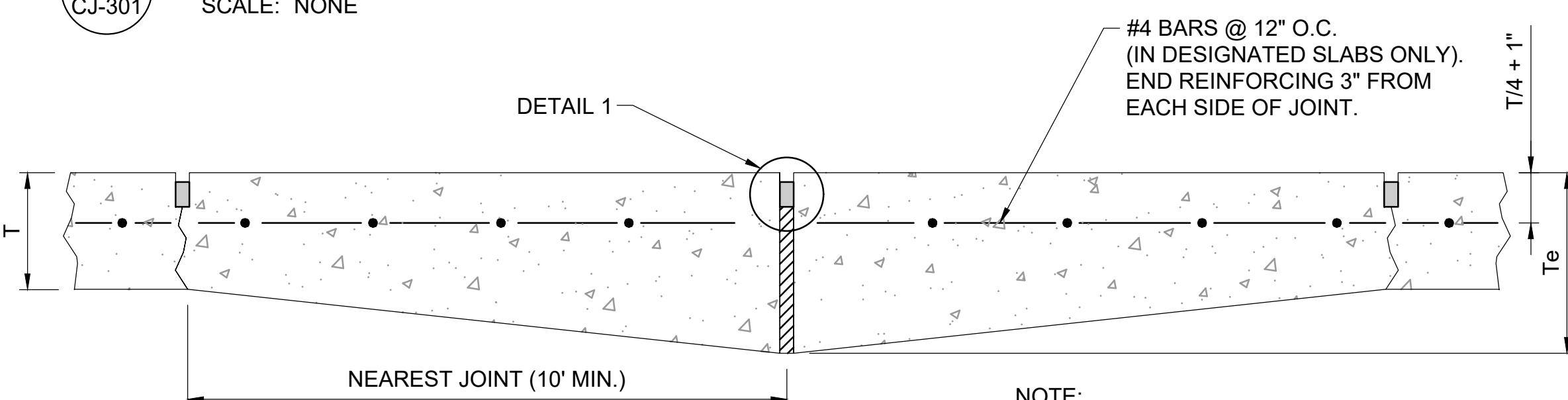
DOWEL BAR TO BE PAINTED
ON ALL SURFACES AND OIL
THIS END OF DOWEL.

TYPE E - DOWELED CONSTRUCTION JOINT

3
CJ-301

SCALE: NONE

#4 BARS @ 12" O.C.
(IN DESIGNATED SLABS ONLY).
END REINFORCING 3" FROM
EACH SIDE OF JOINT.



NOTE:
 $T_e = 1.25(T) \pm 1"$ (MIN. $T + 2"$)

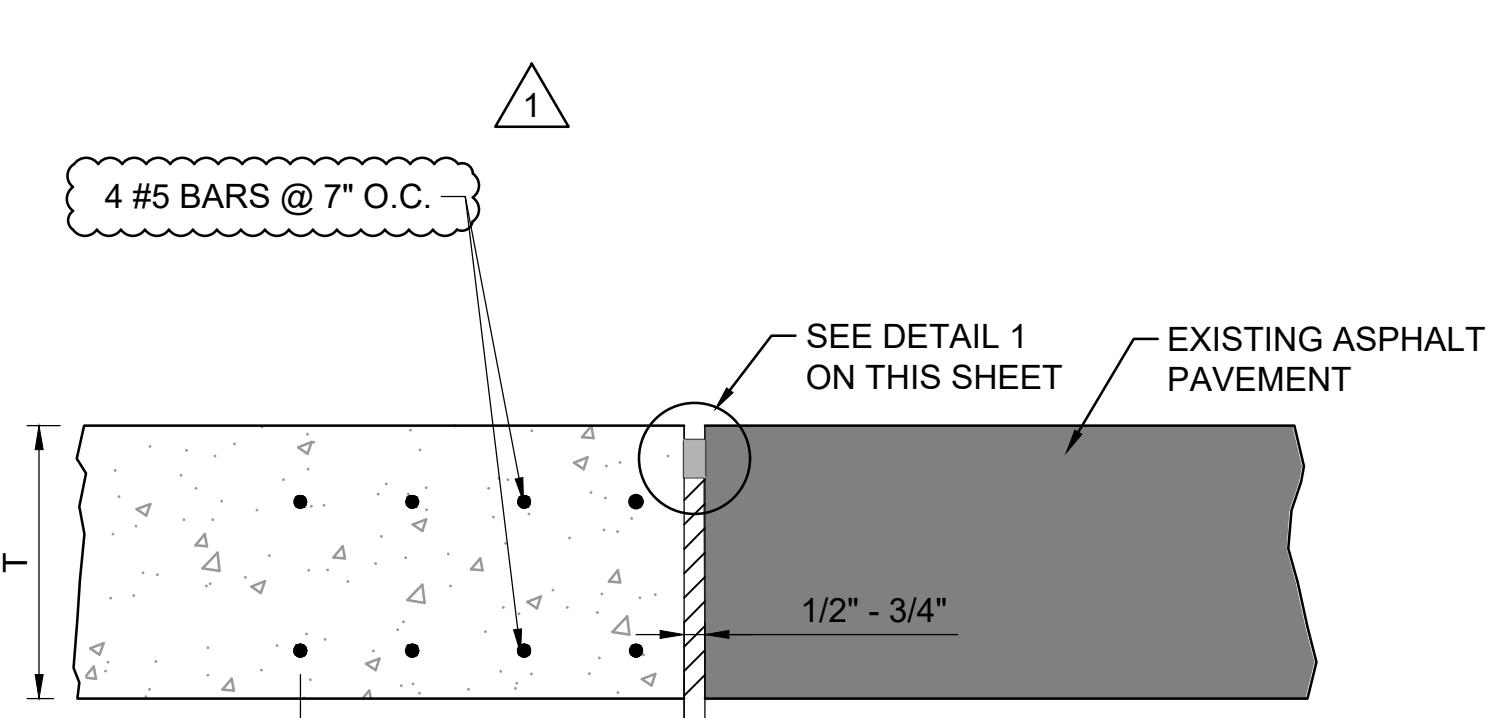
TYPE A THICKENED EDGE JOINT

5
CJ-301

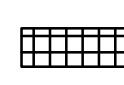
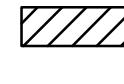
SCALE: NONE

TIE BAR SPECIFICATIONS

SLAB THICKNESS	BAR SIZE	BAR LENGTH	BAR SPACING
≤ 6"	NO. 4	20"	36" O.C.
6" < T < 9"	NO. 5	30"	30" O.C.



SYMBOLS

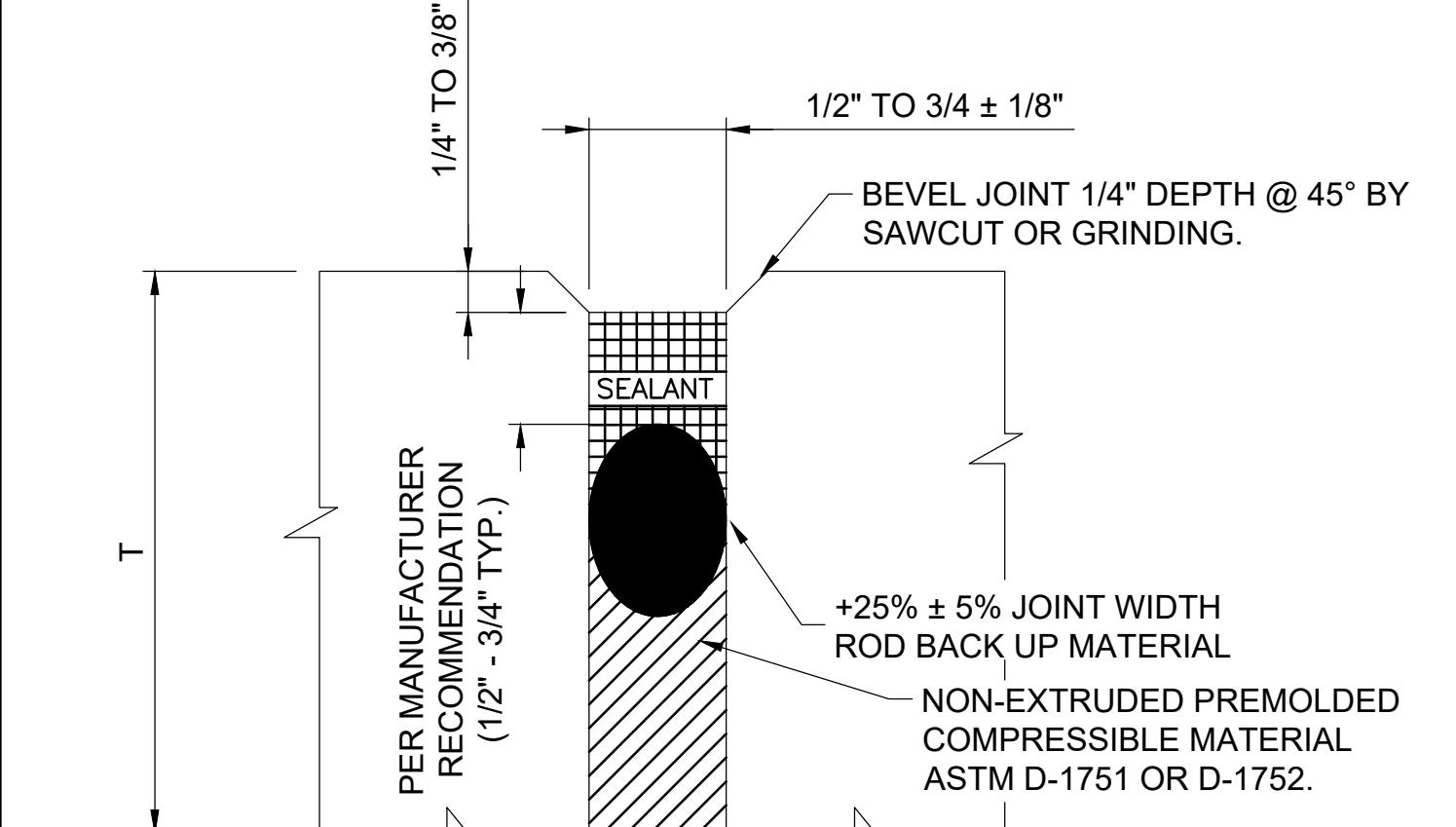
-  SEALANT
-  ROD BACK-UP MATERIAL
CLOSED-CELL RESILIENT FOAM
OR SPONGE RUBBER
-  RESILIENT FILLER

TYPE A-1 REINFORCED ISOLATION JOINT AT EXISTING ASPHALT PAVEMENT

7
CJ-301

SCALE: NONE

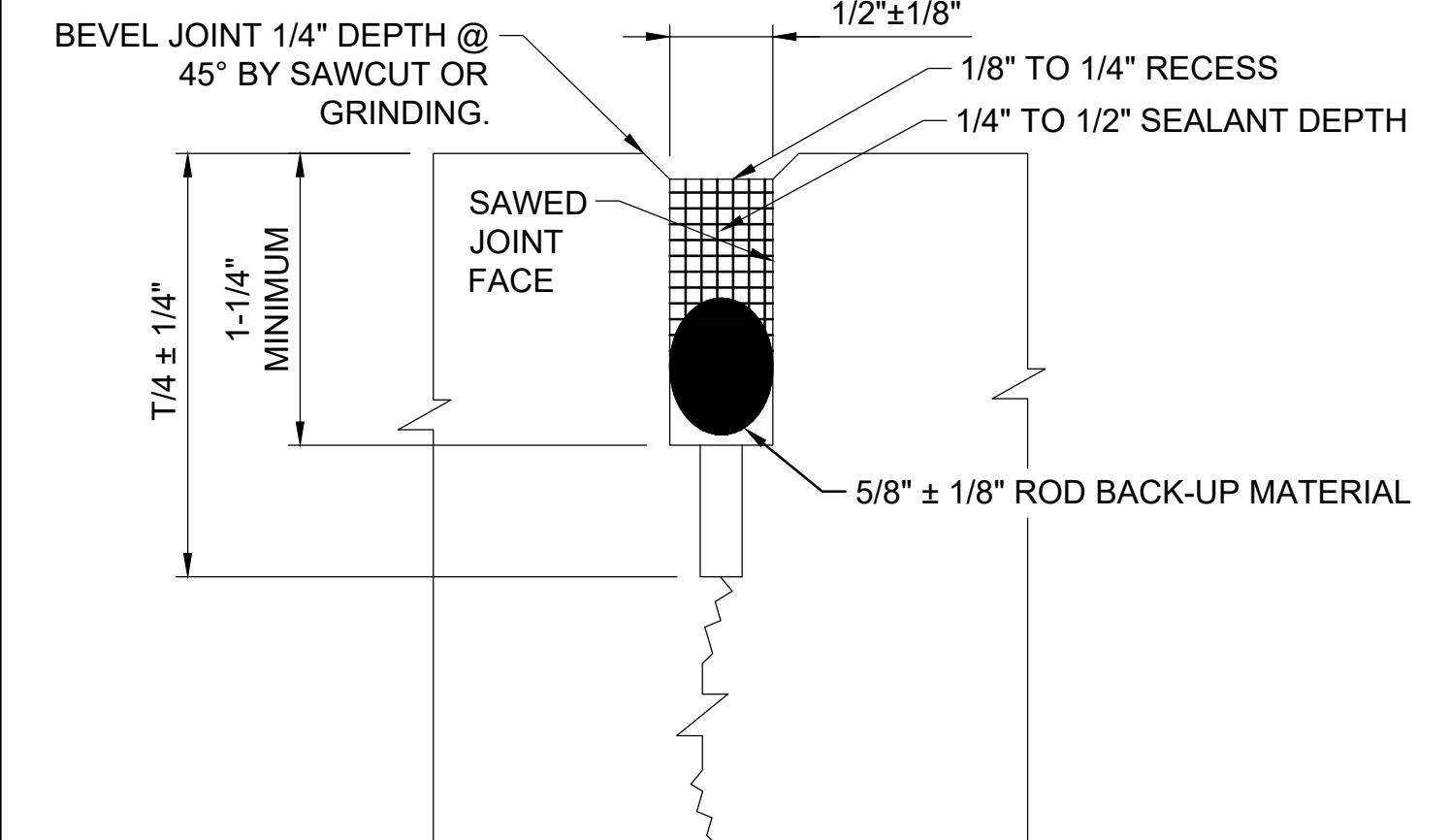
NOTE:
1. REINFORCING STEEL SHALL ONLY BE INSTALLED IN SLABS IDENTIFIED IN
THE JOINT LAYOUT PLAN SHEETS.



DETAIL 1 - ISOLATION JOINTS

A
CJ-301

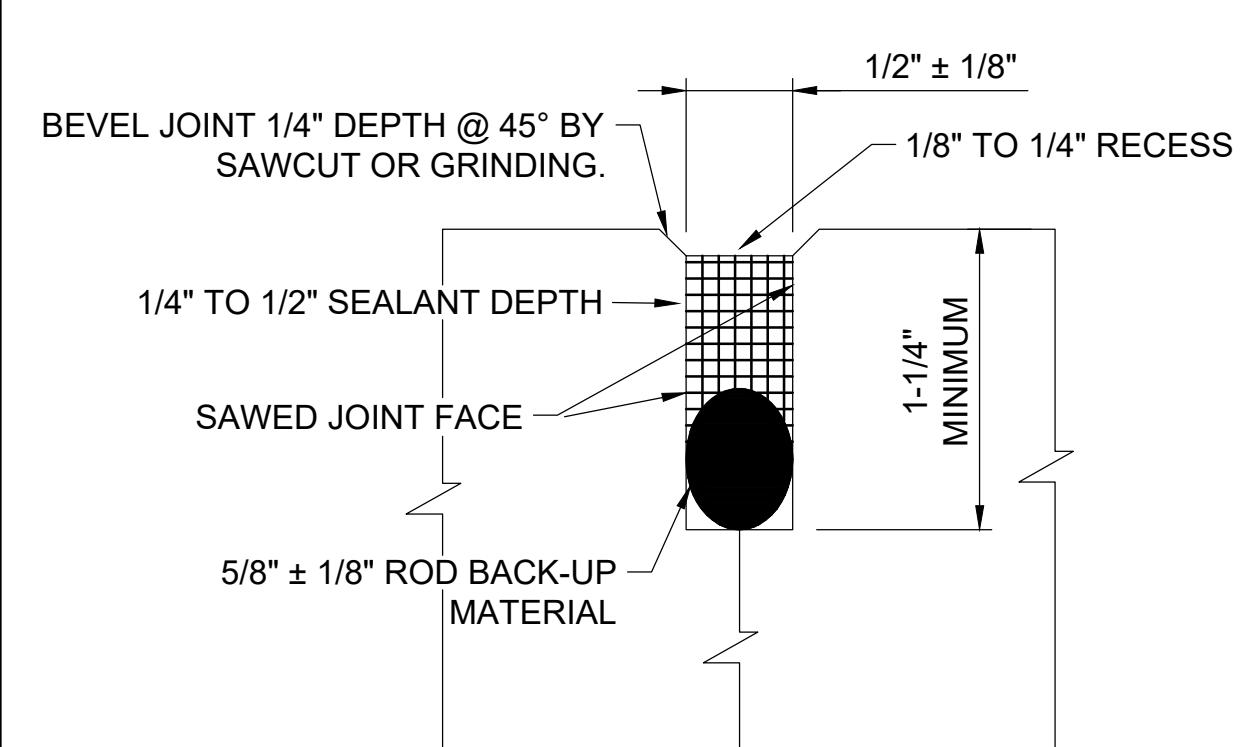
SCALE: NONE



DETAIL 2 - CONTRACTION JOINTS

B
CJ-301

SCALE: NONE



DETAIL 3 - CONSTRUCTION JOINTS

C
CJ-301

SCALE: NONE

DOWEL BAR SPECIFICATIONS

SLAB THICKNESS	DOWEL DIAMETER	DOWEL LENGTH	DOWEL SPACING
6" TO 7"	3/4"	18"	12"
7.5" TO 12"	1"	18"	12"
12.5" TO 16"	1 1/4"	20"	15"
16.5" TO 20"	1 1/2"	20"	18"
20.5" TO 24"	2"	24"	18"

JOINT DETAILS

JOB NO.: 20A12501
DATE: MARCH. 2022
DESIGNED BY: KKR
DRAWN BY: KKR

BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

CJ-301

SHEET
NUMBER

31