

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

NOTICE OF AND AGENDA FOR A SPECIAL MEETING TO BE HELD BY THE BOARD OF DIRECTORS

DATE: TUESDAY, JULY 9, 2024
TIME: 10:30 AM
PLACE: HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
203 W. NEWCOMBE AVE.
PHARR, TEXAS 78577
TELECONFERENCE MEETING

PRESIDING: S. DAVID DEANDA, JR, CHAIRMAN

MEMBERS OF THE PUBLIC ARE WELCOMED TO PARTICIPATE REMOTELY BY TELEPHONE

DIAL-IN NUMBER: +1 956-413-7950
CONFERENCE ID: 881 571 763#
WEB LINK: [Click here to join the meeting](#)

PRESIDING: S. DAVID DEANDA, JR, CHAIRMAN

An electronic copy of the agenda packet can be obtained at www.hcrma.net

PLEDGE OF ALLEGIANCE

INVOCATION

CALL TO ORDER AND ESTABLISHMENT OF A QUORUM FOR A REGULAR MEETING

PUBLIC COMMENT

1. REGULAR AGENDA

- A. Resolution 2024-27 – Consideration and Approval of Change Orders Number 6, 7, 8, 9, 10, 11, 12, and 13 Change to that Certain Construction Contract with Pulice Construction, Inc. for the 365 Tollway.
- B. Resolution 2024-34 – Consideration and Approval of award of Professional Service Agreements with ATSER, Alliance Geotechnical Group, Inc. and ECS Southwest, LLP to provide Construction Material Testing Lab and Forensic Services of the 365 Tollway Project.

2. CHAIRMAN'S REPORT

- A. None.

3. TABLED ITEMS

A. None.

4. EXECUTIVE SESSION, CHAPTER 551, TEXAS GOVERNMENT CODE, SECTION 551.071 (CONSULTATION WITH ATTORNEY), SECTION 551.072 (DELIBERATION OF REAL PROPERTY), AND SECTION 551.074 (PERSONNEL MATTERS)

- A. Consultation with Attorney on legal issues pertaining to Change Order Number 5 to that certain contract with Pulice Construction Inc. for the 365 Tollway Project (551.071 T.G.C.)
- B. Consultation with Attorney on legal issues pertaining to the Financial Assistance Agreement with the Texas Department of Transportation for the 365 Tollway Project (551.071 T.G.C.)
- C. Consultation with Attorney on legal issues pertaining to Professional Service Agreements for Inspection, Engineering, Surveying and Environmental Services to include construction material testing (Section 551.071 T.G.C.).
- D. Consultation with Attorney on legal issues pertaining to the voluntary acquisition of real property for various parcels for the 365 Tollway Project and International Bridge Trade Corridor Project (Sections 551.071 and 551.072 T.G.C.).
- E. Consultation with Attorney on legal issues pertaining to the acquisition, including the use of Eminent Domain, for property required to complete the project alignments of the 365 Tollway Project (Sections 551.071 and 551.072 T.G.C.).
- F. Consultation with Attorney on legal issues pertaining to the Environmental Clearance Document for the International Bridge Trade Corridor Project (Section 551.071 T.G.C.).
- G. Consultation with Attorney on legal issues pertaining to Professional Services Agreements (Section 551.071 T.G.C.).

ADJOURNMENT OF REGULAR MEETING

CERTIFICATION

I, the Undersigned Authority, do hereby certify that the attached agenda of the Hidalgo County Regional Mobility Authority Board of Directors is a true and correct copy and that I posted a true and correct copy of said notice on the Hidalgo County Regional Mobility Authority Web Page (www.hcrma.net) and the bulletin board in the Hidalgo County Regional Mobility Authority office (203 W. Newcombe Ave, Pharr, Texas 78577), a place convenient and readily accessible to the general public at all times, and said Notice was posted on the 3rd day of **July 2024** at **5:00 pm** and will remain so posted continuously for at least 72 hours preceding the scheduled time of said meeting in accordance with Chapter 551 of the Texas Government Code.

Maria E. Alaniz
Administrative Assistant

Note: If you require special accommodations under the Americans with Disabilities Act, please contact Maria E. Alaniz at 956-402-4762 at least 96 hours before the meeting.

PUBLIC COMMENT POLICY

Public Comment Policy: "At the beginning of each HCRMA meeting, the HCRMA will allow for an open public forum/comment period. This comment period shall not exceed one-half (1/2) hour in length and each speaker will be allowed a maximum of three (3) minutes to speak. Speakers addressing the Board through a translator will be allowed a maximum of six (6) minutes.

All individuals desiring to address the HCRMA must be signed up to do so, prior to the open comment period. For meetings being held by telephonic or videoconference, individuals may contact Maria. E. Alaniz at (956) 402-4762 before 5:00 pm day of the meeting.

The purpose of this comment period is to provide the public an opportunity to address issues or topics that are under the jurisdiction of the HCRMA. For issues or topics which are not otherwise part of the posted agenda for the meeting, HCRMA members may direct staff to investigate the issue or topic further. No action or discussion shall be taken on issues or topics which are not part of the posted agenda for the meeting. Members of the public may be recognized on posted agenda items deemed appropriate by the Chairman as these items are considered, and the same time limitations applies."

Note: Participation by Telephone/Video Conference Call – One or more members of the HCRMA Board of Directors may participate in this meeting through a telephone/video conference call, as authorized by Sec. 370.262, Texas Transportation Code.

Item 1A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS X
PLANNING COMMITTEE _____
FINANCE COMMITTEE _____
TECHNICAL COMMITTEE _____

AGENDA ITEM 1A
DATE SUBMITTED 07/05/24
MEETING DATE 07/09/24

1. Agenda Item: **RESOLUTION 2024-27 CONSIDERATION AND APPROVAL OF CHANGE ORDERS NUMBER 6, 7, 8, 9, 10, 11, 12 AND 13 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No

Consideration and Approval of Change Orders Number 6, 7, 8, 9, 10, 11, 12, and 13 Change to that Certain Construction Contract with Pulice Construction, Inc. for the 365 Tollway.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: X Yes No N/A
5. Staff Recommendation: **Motion to approve Resolution 2024-27 – Consideration and Approval of Change Orders Number 6, 7, 8, 9, 10, 11, 12, and 13 Change to that Certain Construction Contract with Pulice Construction, Inc. for the 365 Tollway.**
6. Program Manager’s Recommendation: Approved Disapproved X None
7. Planning Committee’s Recommendation: Approved Disapproved X None
8. Board Attorney’s Recommendation: Approved Disapproved X None
9. Chief Auditor’s Recommendation: Approved Disapproved None
10. Chief Financial Officer’s Recommendation: X Approved Disapproved None
11. Chief Development Engineer’s Recommendation: Approved Disapproved X None
12. Chief Construction Engineer’s Recommendation: X Approved Disapproved None
13. Executive Director’s Recommendation: X Approved Disapproved None



HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

Memorandum

To: Pilar Rodriguez, PE, Executive Director

From: Ramon Navarro IV, P.E., Chief Construction Engineer

Date: July 5, 2024

Re: **1A-CONSIDERATION AND APPROVAL OF CHANGE ORDERS NUMBER 6, 7, 8, 9, 10, 11, 12 AND 13 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**

Background

On October 19, 2021, the Board of Directors awarded the construction contract for the 365 Tollway Project to the lowest, responsive, and responsible bidder Pulice Construction, Inc. [PCI] in the amount of \$295,932,420.25 with issuance of NTP subject to bringing the project back into budget by implementing project's Value Engineering Change Proposals [VECP]. Board approval on November 10, 2021 of CO No.1 sanctioned the use of VECP by authorizing PCI to develop the schematics (30% of design), budget and savings; and, establishing compensation for such services to be the lesser of (a) the sum (5% of the Projected Savings x 30%), or (b) the direct costs to the Contractor in developing the acceptable Project Savings (the "Cost") within 30 days from the date of the Change Order 1 to present projected savings acceptable to the HCRMA.

On December 20, 2021, the Authority approved Change Order No. 2 which captured accepted conceptual plans and pricing, a "not-to-exceed" Contract Price, and solidified VECP specification terms. Net savings will be shared between Contractor 60% and Owner 40%. PCI's disbursement, of the CO#2 savings will be based on 20% increments of Project's progressive construction completion; and, stipulates that any overages due to errors, oversights, omissions, additions, or corrections to final units, quantities or unit pricing, attributable to PCI revisions, shall be deducted from Contractor's 60% portion of the net savings, as detailed in the terms of the Contract.

On April 19, 2022, Change Order No. 3 was considered and approved. Change Order No. 3 introduces finalized plan sheets from the VECP, and will further incorporate detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown. The Savings are based on detailed design work. Contractor's direct costs for preparation of the VECP, including final design, and Owner's reasonable costs to review and administer the VECP shall be deducted from the gross savings. The net savings of any accepted VECP concepts under the Contract shall be shared between the Owner 40% and Contractor 60%. Each new VECP concept shall follow the established process for the Board's consideration and approval on an individual basis.

On January 24, 2023, Change Order No. 4 removed 1,524LF of Item 416-6005 Drill Shaft (42") and introduced 48" drill shafts to incorporate detailed, finalized quantities and unit costs; and established State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Resolution 2023-05 exhibits provide current assessment and breakdown. The net cost of \$171,516.59 shall be fully paid by the Owner [HCRMA].

On July 25, 2023, Board approved Resolution 2023-30, Change Order No 5 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project: Change Order No. 5 proves a net cost increase of \$4,325,130.78 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,220,445.32 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract

GOAL

HCRMA, HDR, TxDOT, FHWA, and Pulice Construction Inc. have been negotiating various items since the implementation of Change Order #5. Initial discussions commenced with anticipated costs reflecting approximately \$2.6M. Upon extensive reviews, clarifications of plans, specifications, and negotiations all parties have concurred on the attached changes.

Change Order No. 6 - 13 Summary: July 9, 2024 Resolution 2024-27

Change Order No. 6 Summary: (-\$30,843.33)

The scope of this change is to compensate for changes related to Depot Road (southbound frontage road for SP115) which will remain in place at the directive of TxDOT. The existing SB frontage road (Depot) will be left in place in lieu of obliteration and cul-de-sac. As a result, the proposed levee will be reduced, guard rail and railing Ty T80PP will be added to protect columns. In addition, the TCP is revised to allow for the phased added work.

Change Order No. 7 Summary: \$13,075.83

This change resolves an unanticipated utility conflict between the city of Mission 16" waterline casing and proposed drainage line at station 649+00. In lieu of the proposed 5' x 5', an 8'x8' Conflict Manhole must be installed to accommodate construction.

Change Order No. 8 Summary: \$20,932.00

The 60" drill shafts from FM 494 Bent 2 conflict with placed 24" water line casing. The existing 24" RCP CL V water line casing would need to be removed and relayed using the same pipe. The estimated damaged pipe would need to be new RCP.

Change Order No. 9 Summary: (-\$1,782.00)

Due to existing field conditions, the irrigation line from station 752+36.15 to 760+66.11 increased from 18" Pressure Irrigation PVC pipe to 36" LHPP. CO#5 instrumented replacement to 36" LHPP. However, due to immediate material need and unavailability, a 30" LHPP was placed in lieu of 36".

Change Order No. 10 Summary: \$249,919.32

Pertinent plan sheets depicted traffic control plan implementing portable concrete traffic barriers and crash cushion appurtenances for safety of traveling public; however, items were not included in estimate.

Change Order No. 11 Summary: \$23,450.97

This change adjusts items per driveway revisions on McColl Rd. The proposed NW driveways were revised to provide better access for the local businesses and to add end treatment components for safety purposes at driveway intersections.

Change Order No. 12 Summary: \$135,487.78

The scope of this change is to add and adjust items related to the 18" waterline relocation. Items were accounted in plans but not placed on estimate.

Change Order No. 13 Summary: \$212,599.20

TS pole mounted cabinets (TY 2 CONF 2) to be installed, attached to the vertical mast of existing and proposed traffic signal poles. Installing ITS cabinets on traffic signal poles is not per TxDOT standard. Cabinets are to be installed as ground mounted to specifications.

Attached exhibits provide particular details, assessments, and breakdown of each [Exhibit A].

RECOMMENDATION:

HCRMA staff and HDR recommend approval of Resolution 2024-27 for authorization of Change Orders number six (6) through thirteen (13) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a net cost increase of \$622,839.77 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,843,285.09 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract.

HIDALGO COUNTY REGIONAL
MOBILITY AUTHORITY BOARD
RESOLUTION No. 2024-27

**CONSIDERATION AND APPROVAL OF CHANGE ORDERS NUMBER 6, 7, 8, 9,
10, 11, 12 AND 13 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH
PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**

THIS RESOLUTION is adopted this 9th day of July, 2024 by the Board of Directors of the Hidalgo County Regional Mobility Authority.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act"); and

WHEREAS, on November 17, 2005, the Texas Transportation Commission (the "Commission") created the Authority pursuant to (i) the Act; (ii) Title 43, Texas Administrative Code; (iii) a petition of the Hidalgo County Commissioners Court (the "County"); and (iv) findings by the Commission that the creation of the Authority would result in certain direct benefits to the State of Texas (the "State"), local governments, and the traveling public and would improve the State's transportation system; and

WHEREAS, the Act allows the Authority to construct transportation projects within the County, including the 365 Tollway Project (the "Project"); and

WHEREAS, the Texas Department of Transportation approved the Project's final design, contract letting and award procedures, and form of construction contract, including a post-award value engineering change proposal process; and

WHEREAS, on August 8, 2021, August 11, 2021, August 15, 2021, August 18, 2021, August 22, 2021, and August 25, 2021 the Authority published a solicitation for Bid #2021-00 I for the 365 Tollway Project (Segments I and 2), Contract No. 0921-02-368 for the Project; and

WHEREAS, bids for the Project were submitted electronically via Civcast Bid System; the first bid was received at 2:27 p.m. on October 13, 2021, and the last bid was received at 2:51 pm on October 13, 2021; and

WHEREAS, at 3:05 p.m. on October 13, 2021, the Authority opened and read into the record three (3) formal sealed, electronic bids for the Project from: (i) Pulice Construction, Inc., (ii) Webber, LLC., and Anderson Columbia Co., Inc., in amounts ranging from \$295,932,420.25 to \$340,409,415.64 for construction of the Project; and

WHEREAS, Pulice Construction, Inc. provided the lowest Project bid in the amount of \$295,932,420.25; and

WHEREAS, on October 19, 2021 the Board approved Resolution 2021-46 conditionally awarding the construction contract of the 365 Toll Project to the lowest, responsive, and responsible bidder Pulice Construction, Inc. in the amount of \$295,932,420.25; and

WHEREAS, on November 10, 2021 the Board approved Resolution 2021-54, approving Change Order No. I to the construction contract with Pulice Construction Inc.; provided, there was no issuance of an NTP to Pulice Construction Inc. until a Value Engineering Proposal ("VECP") was approved by the Board of Directors and TxDOT to establish the financeability of the Project. If, after the VECP process, the Project scope was not deemed feasible and additional revenue was not available to fully fund the Project, no NTP would be issued and the Authority would have terminated the contract without incurring any additional costs other than those approved under Change Order No. I. The VECP is structured to identify concepts and function oriented techniques to improve the value of the Project, or any component thereof, including improvements to schedule, operating costs, constructability, and risk mitigation; without altering scope or environmental justices; and

WHEREAS, on December 20, 2021 the Authority approved Resolution 2021-78, authorizing the VECP proposals to Change Order No. 2 and the revising the contract amount to \$281,723,797.95; and, the Authority also authorized a contingency fund for the Project in the amount of \$5,000,000, and established a total overall Project cost of \$286,723,797.95;

WHEREAS, the Authority and the Board amended the Contract through Amendment No. I to capture the risk allocations and make other Contract clarifications in support of VECP; and

WHEREAS on April 19, 2022 the Authority approved Resolution 2022-36, consideration and approval of Change Order No 3 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, in order to further establish the VECP concepts and supporting details hereto;

WHEREAS on November 4, 2021 Pulice Construction Inc, expressed concern on Engineer of Record's scour reports and calculated foundation loads. Upon discussions, data collection and research, November 16, 2022, the HCRMA requested HDR[GEC] provide investigative recommendation.

WHEREAS on December 7, 2022 HOR provided review and supporting documentation in upsizing particular bent foundations at PCI proposal and costs;

WHEREAS, on January 24, 2023 the Authority approved Resolution 2023-05, Change Order No 4 to the construction contract with Pulice Construction Inc. for the net cost increase of \$171,516.59, by removal of 1,524LF of Drill Shaft (42") and introducing 48" drill shafts to incorporate detailed, finalized quantities and unit costs; and established State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract; and,

WHEREAS, on July 25, 2023 the HCRMA Board approved Resolution 2023-30, Change Order No 5 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, Change Order No. 5 proves a net cost increase of \$4,325,130.78 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,220,445.32 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract;

WHEREAS, for Board's consideration and approval is Resolution 2024- 27, authorization of Change Orders number six (6) through thirteen (13) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders provides a net cost increase of \$622,839.77 to be fully paid by HCRMA [Owner] and establishes a new revised contract price of \$286,843,285.09 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby approves Change Orders No. 6 through No.13 (including Exhibits thereto) to the construction contract with Pulice Construction Inc. for the net cost increase of **\$622,839.77**.

Section 3. Construction of the 365 Toll Project in substantially final form as hereto detailed, establishing a unit bid construction amount of \$265,931,713.90, and an overall contract amount of **\$286,843,285.09**

Section 4. The contract price and savings established by the VECP process, as previously established, only applies Federal participation for items which were negotiated in accordance with Item 4 of the Standard Specification; and, TxDOT will only provide oversight for payment administered in accordance with Item 9 of the contract, otherwise costs shall be borne by HCRMA [owner].

Section 5. Upon final acceptance from FHWA/TxDOT and HCRMA's Legal review of final form; the Board hereby authorizes the Executive Director to execute the specific Change Orders.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING on the 9th day of July, 2024, at which meeting a quorum was present.

S. David Deanda, Jr., Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

EXHIBIT A
CHANGE ORDERS NUMBER
6 THROUGH 13
BETWEEN
PULICE CONSTRUCTION, INC.
AND
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
FOR
CONSTRUCTION
OF
365 TOLLWAY PROJECT

INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

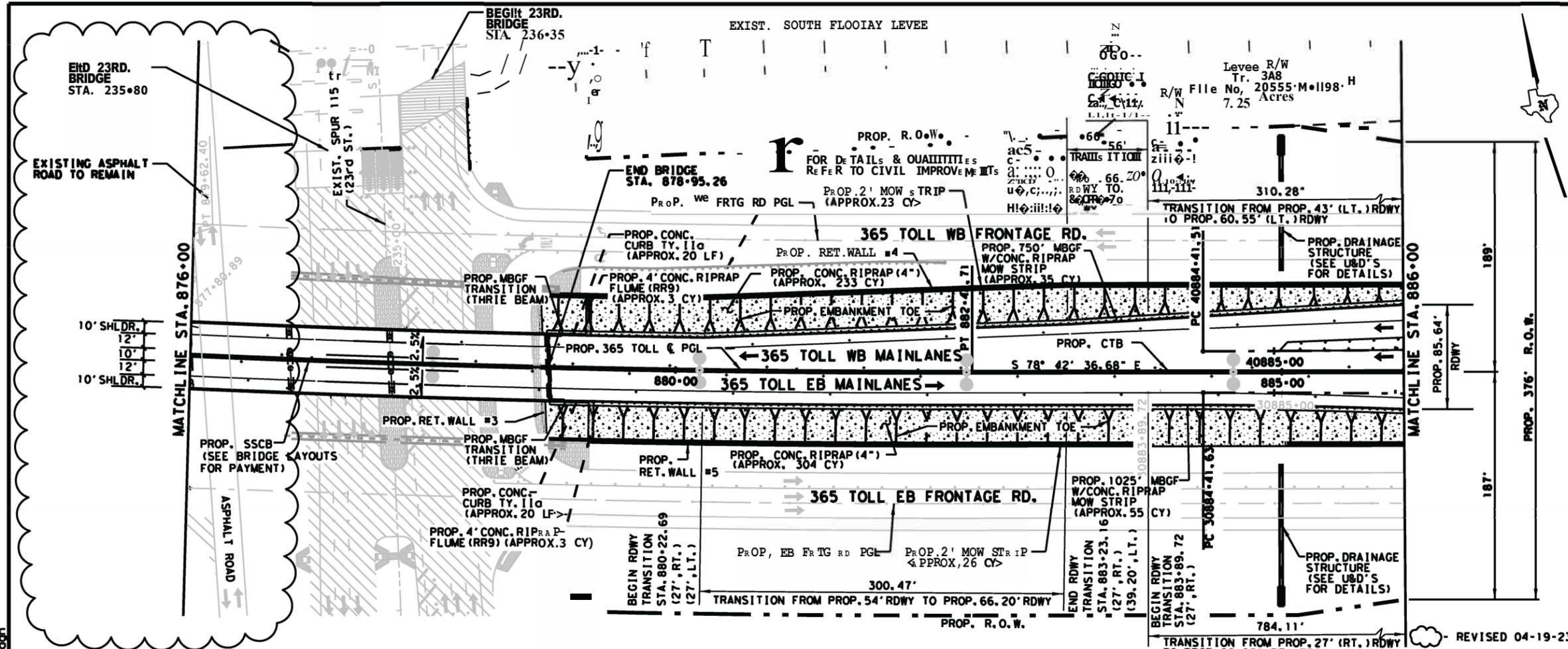
- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.

ITEM	DESCRIPTION	UNIT	QUANTITY
432	RIPRAP (MOW STRIP) (4")	CY	139
432	CONC. RIPRAP (4")	CY	537
432	CONC. RIPRAP FLUME	CY	6
514	PERM CTB (SGL SLOPE) (TY 1) (48)	LF	705
529	CONC. CURB TY. 11g	LF	40
540	MBGF	LF	1775
540	MBGF (THRIE-BEAM)	EA	2

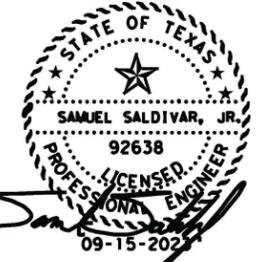
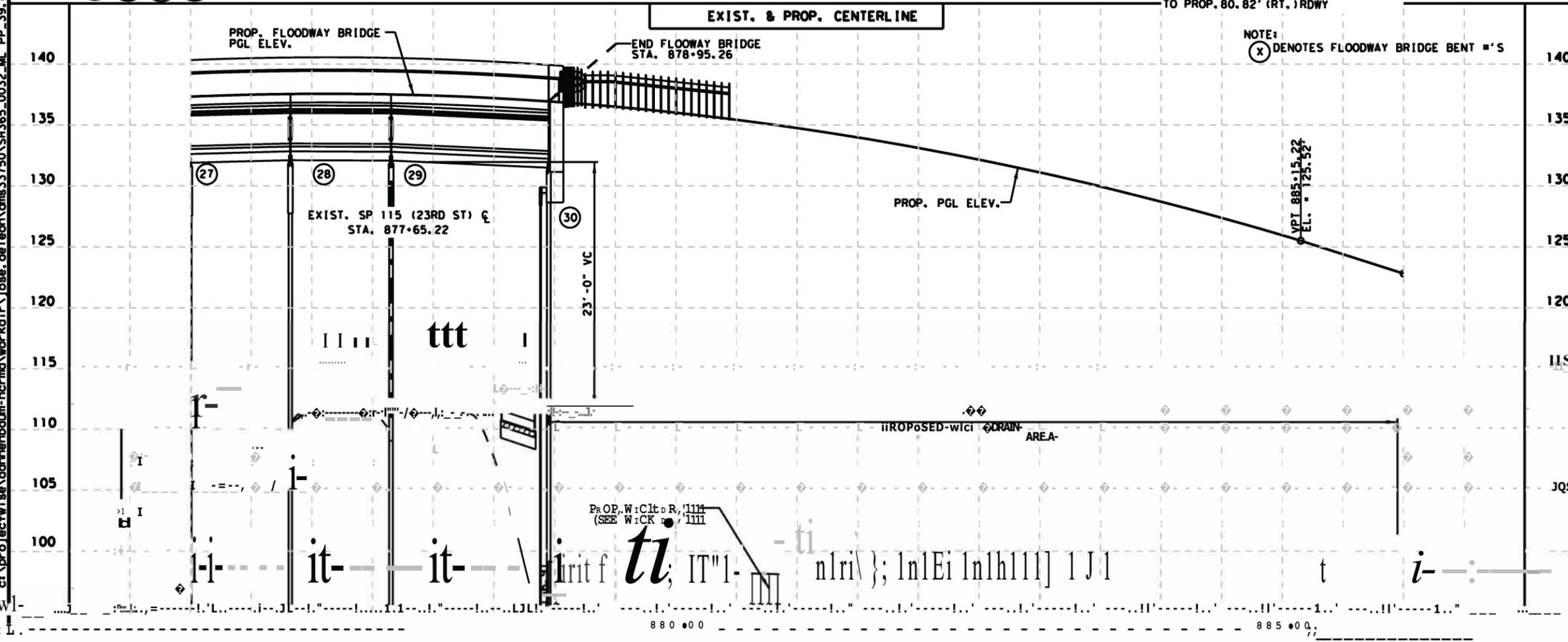
LEGEND 1

- PROP. DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR DIMENSIONS, RADIUS & QUANTITIES)
- PROPOSED PLANNING (0-1/2")
- PROPOSED WIDENING & OVERLAY
- OBLITERATE EXIST ROAD
- PROPOSED CONC. RIPRAP
- EXISTING ARCHAEOLOGICAL SITE
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED CURB RAMPS (TY 1)
- FLOW DIRECTION
- TRAFFIC FLOW DIRECTION

- NOTES:
- SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
 - SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV, ETC.
 - SEE SUPERELEVATION TABLE FOR TRANSITIONS AND SUPERELEVATIONS LIMITS.
 - SEE U & D'S AND HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES, AND ANY UTILITIES INFORMATION.
 - FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 - CONTRACTOR SHOULD BE CAUTIOUS AS TO NOT DISTURB ARCHAEOLOGICAL SITE AREAS.
 - SEE REMOVAL SHEETS FOR ITEM TO BE REMOVED.
 - SEE CULVERT LAYOUTS FOR DRAINAGE STRUCTURE DETAILS.
 - SEE IRRIGATION LAYOUT SHEETS FOR DETAILS.
 - FOR DETAILS & QUANTITIES REFER TO TRAFFIC MANAGEMENT SYSTEM (TMS) SHEETS.



REVISED 04-19-23



Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #332
 1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

L & G Engineering
 365 TOLL MAINLANES
 PLAN AND PROFILE
 STA. 876+00 TO STA. 886+00

SHEET 2

DIST	COUNTY	SHEET NO.
PER	HIDALGO	441

9/15/2023 2:10:53 PM c:\projectwise\dannenbaum-hcrma\workdir\jose.deleon\dms33750\SH365_0032.ML_PP_39.dgn

Southmost Farm L. P.
 Doc. No. 1092711 O.R.
 March 30, 2002
 813.07 Acre tract

TGS
 EXIST. 4" HP GAS LINE
 (TO BE ADJUSTED BY OTHERS)

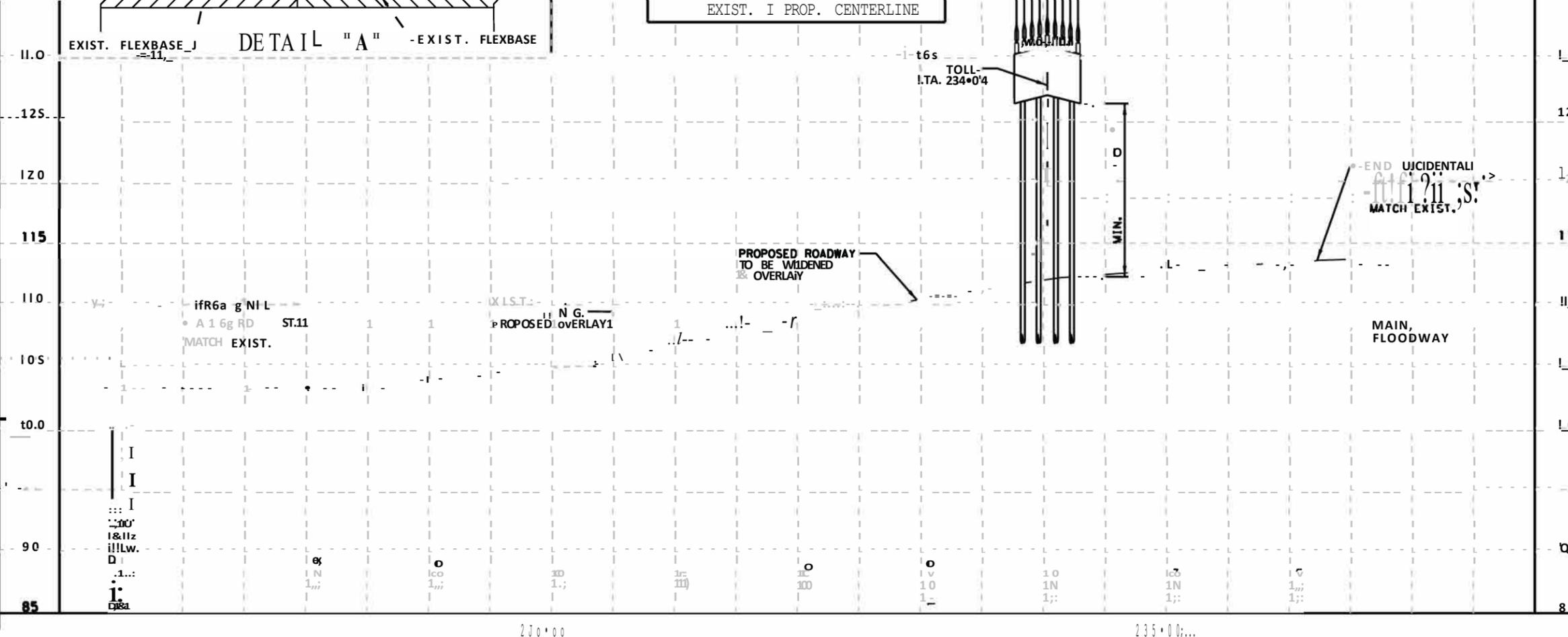
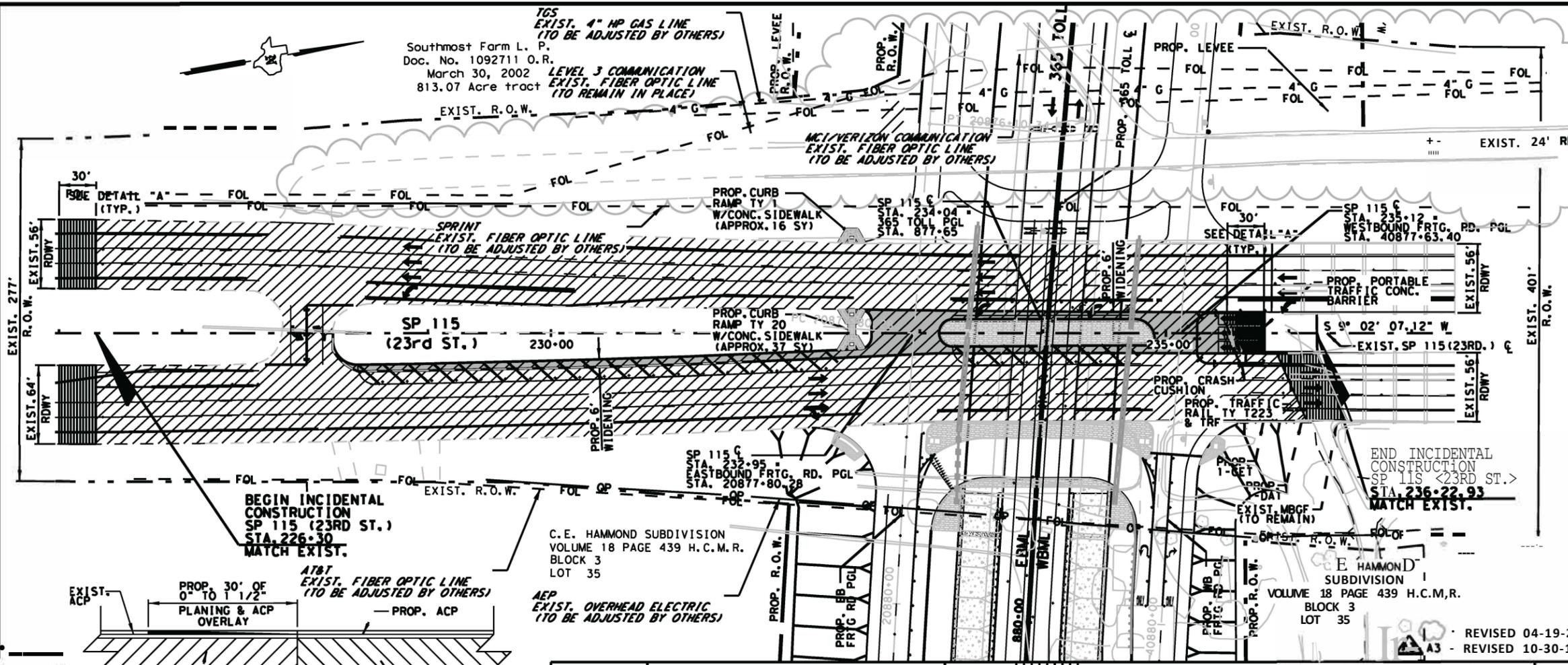
LEVEL 3 COMMUNICATION
 EXIST. FIBER OPTIC LINE
 (TO REMAIN IN PLACE)

MC/VERIZON COMMUNICATION
 EXIST. FIBER OPTIC LINE
 (TO BE ADJUSTED BY OTHERS)

SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
354	PLANE ACP (0" TO 1 1/2")	SY	777
420	CL C CONC (RAIL FOUNDATION)	CY	7
450	RAIL (TY T223)	LF	45
512	PORT CTB (FUR & INST)	LF	32
531	CURB RAMP (TY 1)	EA	1
531	CURB RAMP (TY 20)	EA	1
531	CONC. SIDEWALK (4")	SY	53
545	CRASH CUSH ATTEN (INST)	EA	3
540	MBGF (DAT)	EA	1
544	MBGF (GET)	EA	1

- LEGEND**
- PROF. DRIVEWAY OR TURNOUT
 - ISEE DRIVEWAY/TURNOUT TABLE FOR DIMENSIONS, RADIUS I QUANTITIES!
 - PROPOSED PLANING 10-11/2" 1
 - PROPOSED OVERLAY
 - OBLITERATE EXIST ROAD
 - PROPOSED CONC. RAMP
 - PROPOSED WIDENING
 - PROPOSED R.O.W
 - EXISTING R.O.W.
 - PROPOSED CURB RAMP (TY 1)
 - FLOW DIRECTION
 - TRAFFIC FLOW DIRECTION

1. SEE ALIGNMENT DATA SHEET FOR PROPOSED EXIST. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET ELEV. ETC.
3. SEE SUPERELEVATION TABLE FOR TRANSITIONS AND SUPERELEVATIONS LIMITS.
4. SEE U.I.D.'S AND HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES AND ANY UTILITIES INFORMATION. FOR OTHER UTILITY GRADES SEE DITCH PROFILE SHEETS.
5. CONTRACTOR SHOULD BE CAUTIOUS AS TO NOT DISTURB ARCHEOLOGICAL SITE AREAS.
6. SEE REMOVAL SHEETS FOR ITEM TO BE REMOVED.
7. SEE CULVERT LAYOUTS FOR DRAINAGE STRUCTURE DETAILS.
8. SEE IRRIGATION LAYOUT SHEETS FOR DETAILS.
9. FOR DETAILS I QUANTITIES REFER TO TRAFFIC MANAGEMENT SYSTEM ITMSI SHEETS.



HCRMA
 HUNTER COUNTY REGIONAL MOBILITY AUTHORITY

Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. REG. #392

L&G Engineering
 Highway/Civil
 Structural/Bridge
 Environmental
 Firm No.: F-4105

9005 Stewart Rd., Ste. 10
 Mission, TX 78172
 Phone: (512) 585-1909
 Fax: (512) 585-1927

SP 115 (23RD ST.)
 PLAN AND PROFILE
 STA. 238+00 TO STA. 248+00

SCALE: 1" = 100'
 VERT. 1" = 10'

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
	HUNTER	592	

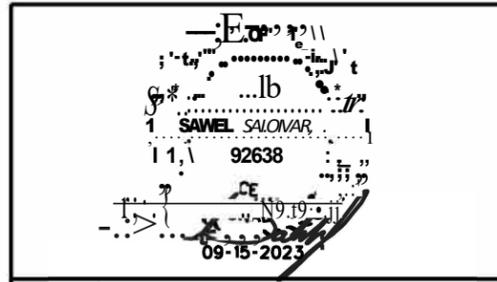
SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
100	PREP. R.O.W.	STA	6.25
247	FURNISH & PLACING TOPSOIL (6")	CY	810
247	FL. BS. (TY E OR 4" FINAL POSHS)	CY	185
280	LINE TRY (EXIST MATL) (6")	SY	5,147
280	LINE HYD. COIL OR DR. (SLURRY)	TON	25
280	HEAVY DUTY VEHICULAR GATE	EA	1

LEONDS

- a 1...1 & E *11E11MII...1
- raatJJ 1...E FLUJIN... IIIIM I ...IITISI
- K...IPIIJOSED coc.RIPMP
- aa.IEMIE EXST HOMO
- BBBIMEIA TOE FILLED
-JEIISTIIIG MCIIEILIGICIL SITE
- PIU'OIEO 11Dw
- EIIISTIIIG 11DW
- .. FLOW OIRECTIIII
- ..+ TRAFFIC FLOW OIRECTIIII
- TOLE TIJ or LEVEE ELEYATHIIII
- WIE WAIEA ... a ELEYATHIIII
- YZ VEIEIAIIIIII FREE ZONE
- IIIIII
- 1. REFER TO MYGIIILIGY MG HYORILIC REIORI MG FLIXIOLMI ... vsis FOR la i FLOWWAY ITTYIER 2114 FOR ADDITIONAL HYORILIC MCHMATHIIII.
- 2. IEE LEVEE ALDIMIIT OIMA MET FOR PROPOSEO CEITELIIE DITA.
- 3. IEE UY EY DITA MET FOR IN SIAIIIIII, OFFIEI ELEY.ETC.
- 4. IEE "IE NETS: FOR ITEM TO E REMOVED L IEE CAVERT LAYGITS FIR OMIAGE STIU:IIIE DETAILS.
- LIEE UIO METS I HYORILIC DATA MEIS FOR MYNEIII or ALL PROPOSEO OMIAGE SIU:IIIE.
- 7. FOR OTHER DITCH GMOES IEE DITCH PVIIE SHEETS.
- L IEE IINGATIIII LAYGIT METS FOR DETAILS.
- L IEE SIO METS FOR IETLMOS AND MCIIEILIGICIL MEAS.
- ILCIIIIICIOR IIOLO E. C. TIILIS AS 10 IIOI DIST. MCIIEILIGICIL SITE MEAS.
- ILSEE IIEELEYATHIIII Ha E FOR TMIISIIIIIS AND IIEELEYATHIIII LINTS

REVISED 14-111-23 £ A3 • REVISED 11-27-17



flexos Department of Transportation

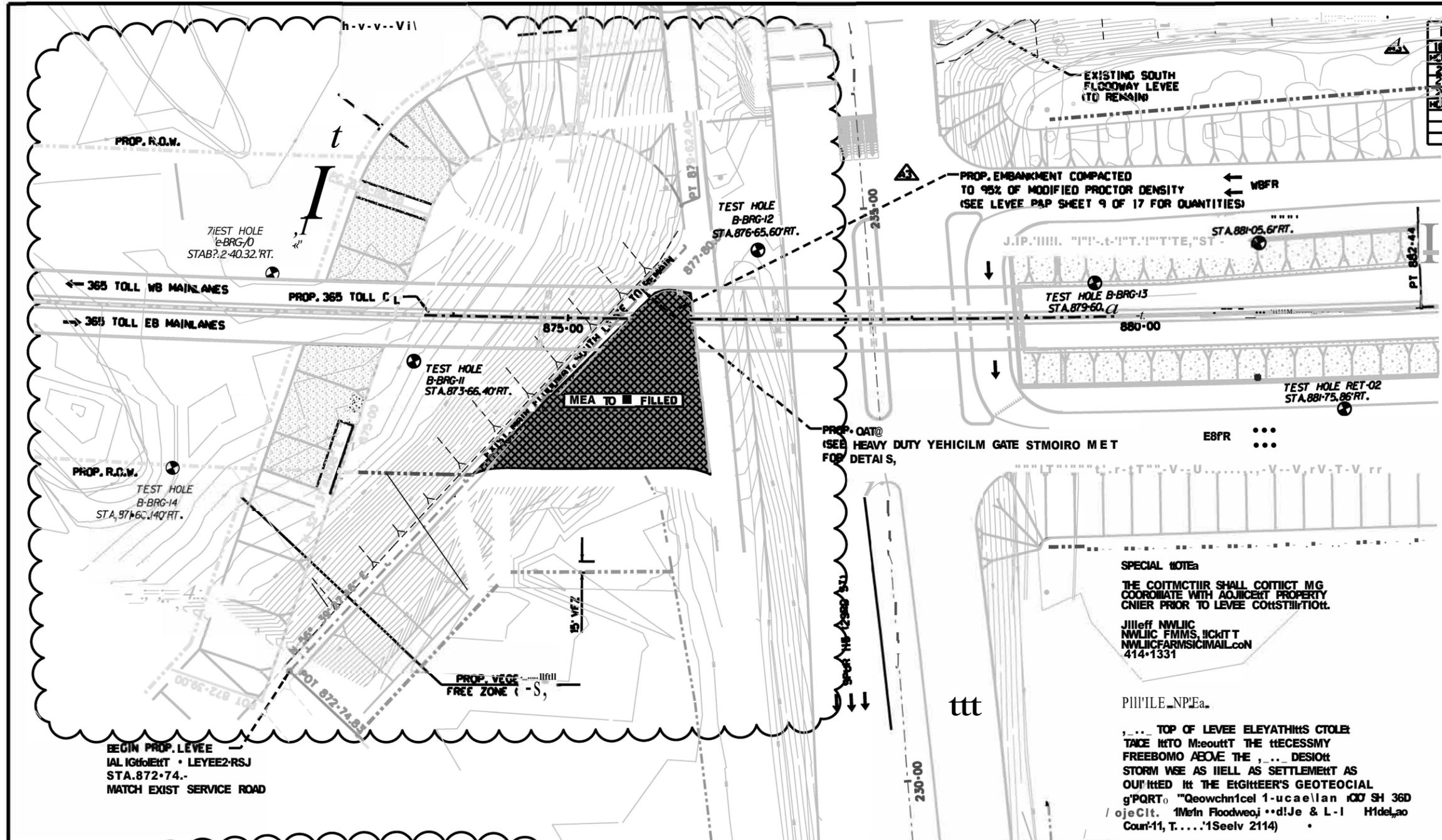
PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
T.B.-P.E. FIRM REGISTRATION #392
1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (361) 682-3877

L & G Engineering
m ghway 7-Civil
Structural/ Bridge
Environmental
Firm No.: F-4105
9805 Stewart Rd., Ste. 10
McAllen, TX 78504
Phone: (361) 585-1909
Fax: (361) 585-1927

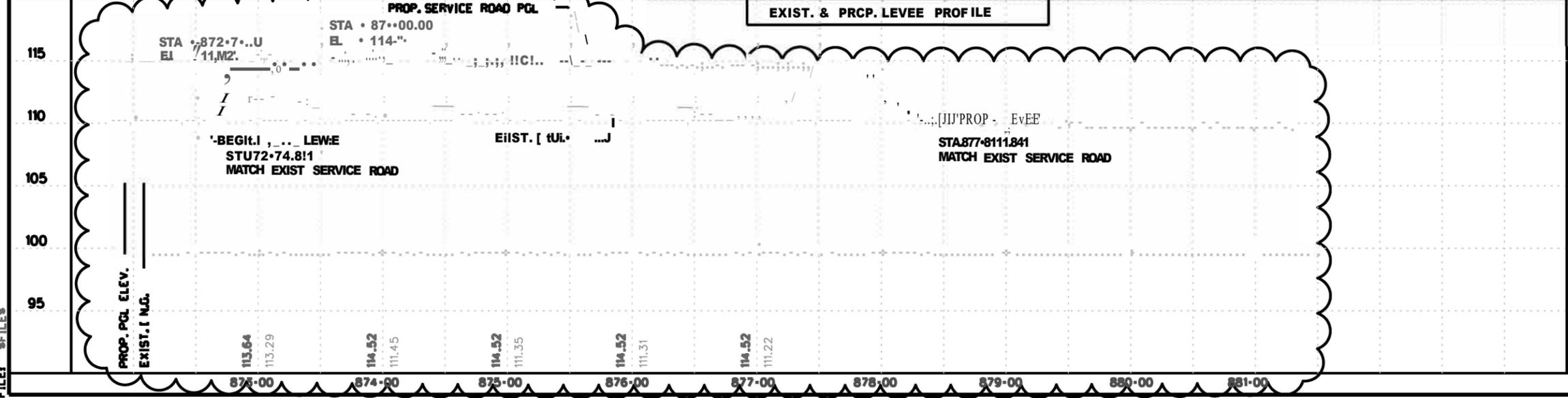
**365 TOLL - LEVEE
PLAN AND PROFILE**
STA. 872+74 TO STA. 878+00
<ALIGNMENT-LEVEE2-RS>

SCALE: HORIZONTAL 1" = 100'
VERTICAL 1" = 10'

DATE	DATE	DATE	DATE
FILE	FILE	FILE	FILE
CONT	SECT	JOB	HIGHWAY
021	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	704	



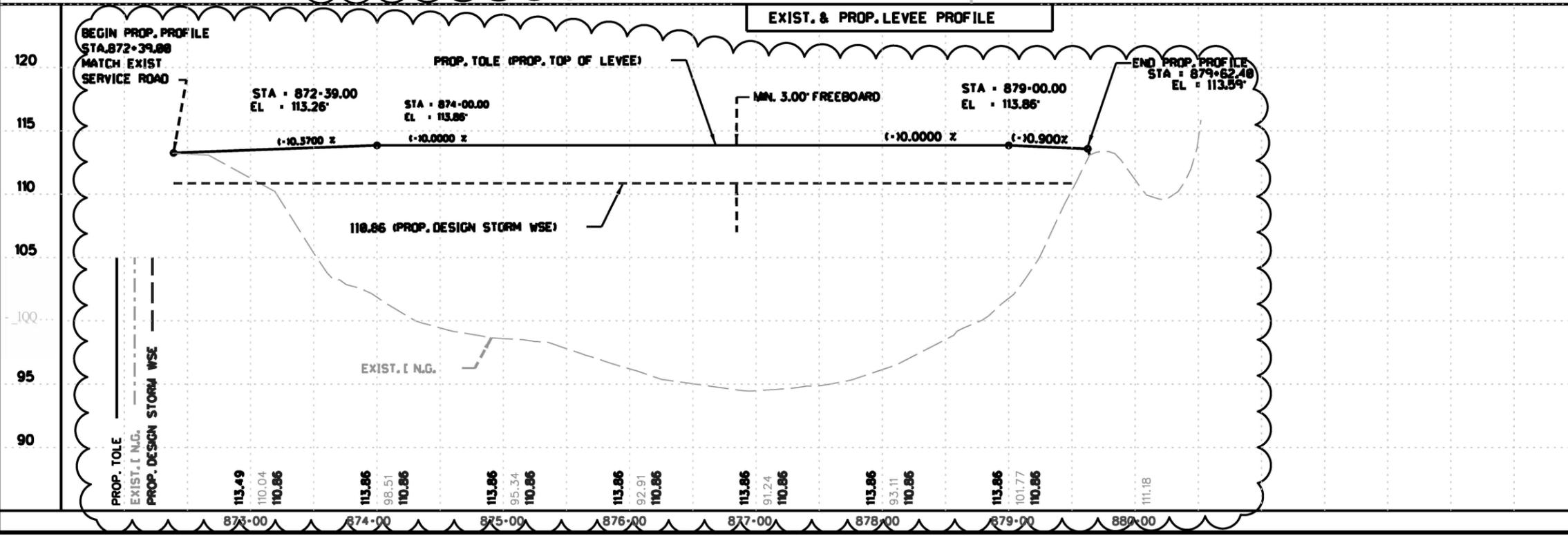
EXIST. & PRCP. LEVEE PROFILE



DATE: SDATES \$TIMES
FILE: \$FILES

SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
100	PREP R.O.W.	STA	7.78
HCRMA 3541	LEVEE EMBANKMENT CLAY LINER	CY	42,894
HCRMA 3541	LEVEE EXCAV. (EXIST. NATURAL GRD.)	CY	3,213
HCRMA 3541	FURNISH & PLACING TOPSOIL (6")	CY	2,800
247	FL BS (TY E GR 4XFNAL POSX6")	CY	1,008
250	LIME TRT (EXIST MATL) (6")	SY	20,871
250	LIME (HYD. COM. OR OK (SLURRY))	TON	100
432	CONC. RIPRAP (4")	CY	273

- LEGEND**
- TTTTTTTTJIU' LIMEWAY LI TJIIOT ISEE LIMEWAYTJIIOT
 LLLLLL TABLE FIJI OIKIISJIS, IIAOIS I WIITITIES
 PROPOSED CIK.RIPRAP
 081.ITERATE EXIST ROAD
- AREA TO BE FILLED**
- EXISTING ARCHEOLOGICAL SITE**
- PROPOSED R.O.W.
 - ... EXISTING R.O.W.
 - FLOW DIRECTION
 - TRAFFIC FLOW DIRECTION
 - TOLE TOP OF LEVEE ELEVATION
 - WSE WATER S ACE ELEVATION
 - VFZ VEIETAIIOTI FREE ZONE
- ImESI**
- REFER TO HYDROLOGY AIII HYDRAULIC REPORT AIII FLOODPLAIN ANALYSIS FOR IBWC FLOODWAY-CYIER 28141 FOR ADDITIONAL HYDRAULIC IIFORMATION.
 - SEE LEVEE ALIINENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
 - SEE SUIVEY DATA SIIET FOR BM STATIONS, OFFSET, ELEV, ETC.
 - SEE "REMOVAL SIIETS" FOR ITEM TO BE REMOVED.
 - SEE CII VERT LAYIITS FOR DRAINAGE STRUCTIIF DETAILS.
 - SEE IJD SIIETS & HYORAILIC DATA SIIETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTIIF, FOR OTIIE DITCH GRADES SEE DITCH PROFILE SIIETS.
 - SEE IRRIIATIOII LAYIIT SIIETS FOR DETAILS.
 - SEE SWIP SIIETS FOR WETLANDS AIII ARCHEOLOGICAL AREAS.
 - CONTRACTOR SHIJD BE CAUTIIIS AS TO IOT DISTIIB ARCHEOLOGICAL SITE AREAS.
 - SEE SUPERELEVATIOII TABLE FOR TRANSITIONS AIII SUPERELEVATIONS LIMITS



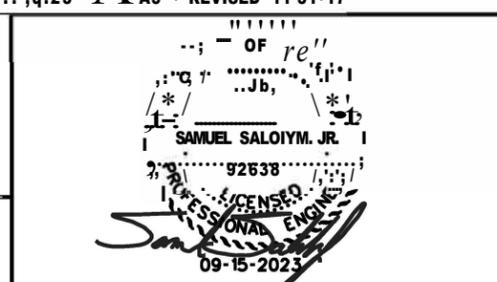
SPECIAL IGTEs

THE CONTRACTOR SHALL CONTACT M/G COORDINATE WITH HOJACETI PROPERTY DII:R PRIOR TO LEVEE CONSTRUCTION.

JIMMY NILLIC
 N I L I C FARMS, SOUTHICST
 NIT.IICFIIIIISaGMAIL.COM
 I'III&J4B4-1336

PROFILE

PROF. TOP OF LEVEE ELEVATIONS (TOLE) TAKE INTO ACCOUNT THE NECESSARY FREEBOARD ABOVE THE PROP. DESIGN STORM WSE AS WELL AS SETTLEMENT AS OUTLINED IN THE ENGINEER'S GEOTECHNICAL REPORT, "Geotechnical Investigation for SH 365 Project (Main Floodway Bridge & Levee) Hidalgo County, Texas, 2014)



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PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

L & G Engineering
 Structural/ Bridge
 Environmental
 Firm No.: F-4105
 9805 Stewart Rd., Ste. 10
 McAllen, TX 78504
 Phone: (956) 585-1909
 Fax: (956) 585-1927

365 TOLL - LEVEE PLAN AND PROFILE
 STA. 872+39 TO STA. 880+17.21
 (ALIGNMENT - LEVEE-4)

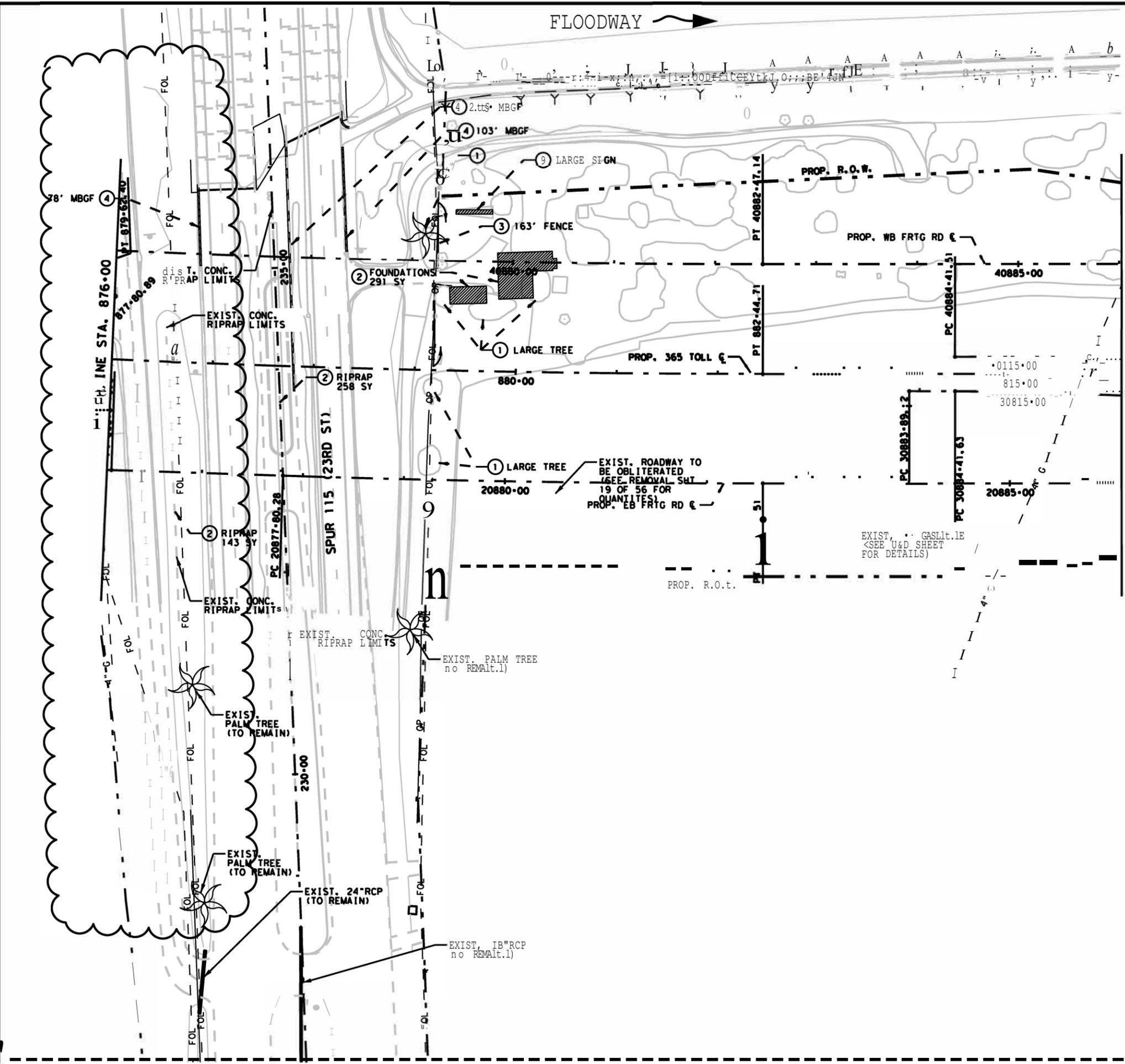
SCALE:
 HOR: 1" = 100'
 VERT: 1" = 10'

SHEET **q** OF 17

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	705	

DATE: 08/15/17
 FILE: 365_TOLL_LEVEE-4.qdw

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SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	TOTAL
104	REMOVE CONC. FENCE AT STA. 876+00	SY	291
104	REMOVE CONC. RIPRAP	SY	401
4 H	REMOVE STR. 1\"/>		

- FCH COMM:ICRI 1W 111011 011Y
- LEVEE 12
- ① REMOVE UT. LEVEE PREP R.O.W. <ITEM 1001
 - ① REMOVE CONC. <ITEM 1041
 - @ REMOVE STR. !ITEM 4961
 - ③ REMOVE MBGF <ITEM 5421
 - ③ REMOVE CHALK LIT. K. FENCE !ITEM 5501
 - ③ REMOVE GATE <ITEM 5501
 - ① REMOVE POST AL. ID CABLE FENCE !ITEM 7721
 - @ OBLITERATED ROAD !ITEM 1061
 - @ REMOVE STRUCTURE BY OTHERS
 - @ TRAIL PLANT !PALM TREE > !ITEM 10121
 - @ REMOVE IRR, WELL !ITEM 1031
- FLOW DIRECT 10111
- TOTAL**
- ALL WALL SIGNS TO BE REMOVED, SEE SIGNING SHEETS FOR DETAILS.
 - EXISTING LEVEE TO BE RELOCATED UNTIL THE LEVEE RELOCATION IS COMPLETED AND APPROVED BY IBIC.

REVISED -19-13

SAWEL SALDIVAR, JR.,
 LICENSED PROFESSIONAL ENGINEER
 09-15-2023



Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
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 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 200 MCALLEN, TX 78504 (956) 682-3677

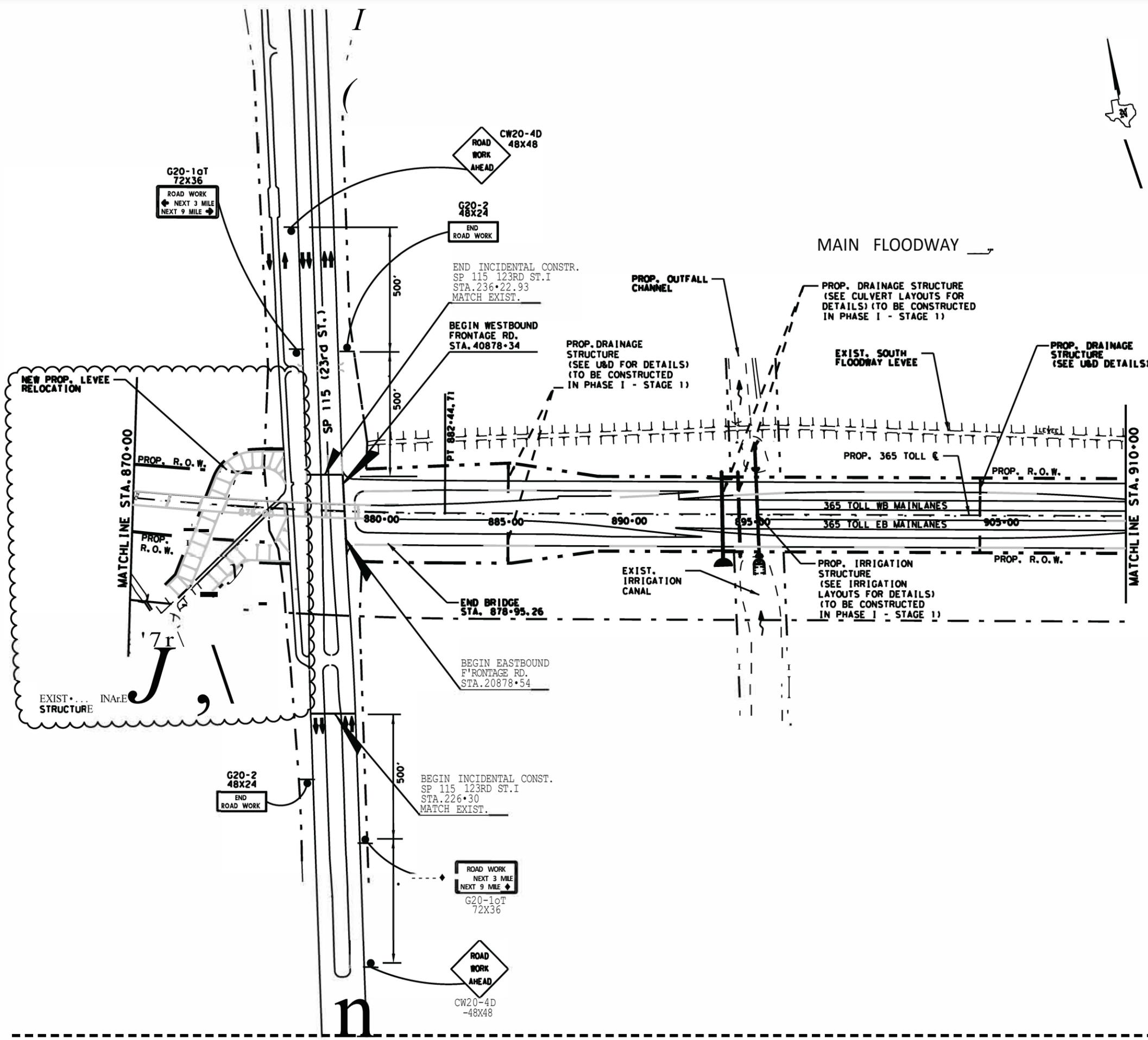
L&G Engineering
 Highway / Civil
 Structural / Bridge
 Environmental
 Firm No.: F-4105

365 TOLL
 REMOVAL LAYOUT
 STA. 876+00 TO STA. 886+00

SCALE 1" = 100' SHEET 19 OF 56

DATE	CONT	SECT	JOB	HIGHWAY
09/21/23	02	02	368	365 TOLL
CHDR	DIST	COUNTY	SHEET NO.	

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LEGEND	
-+	DIRECTION OF TRAFFIC NOW
ii-4	TYPE 3 BARRICADE
.A.	CONSTRUCTION SIGN

= EXIST. DRAINAGE STRUCTURE/CHANNEL
 = PROP. DRAINAGE STRUCTURE/CHANNEL
 = EXIST. IRRIGATION STRUCTURE
 = PROP. IRRIGATION STRUCTURE

NOTE: CONTRACTOR SHALL USE AN EXPERIENCE FLAGGER WHENEVER WORK INVOLVES PUBLIC ROAD TRAFFIC.

REVISED 04-19-23



Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
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L&G Engineering
 Highway / Civil
 Structural / Bridge
 Environmental
 Firm No.: F-4105
 2100 W. Expressway 83
 Mercedes, TX 78570
 Phone: (956) 565-9813
 Fax: (956) 565-9018
 900 S. Stewart Rd., Ste. 10
 Mission, TX 78572
 Phone: (956) 585-1909
 Fax: (956) 585-1927

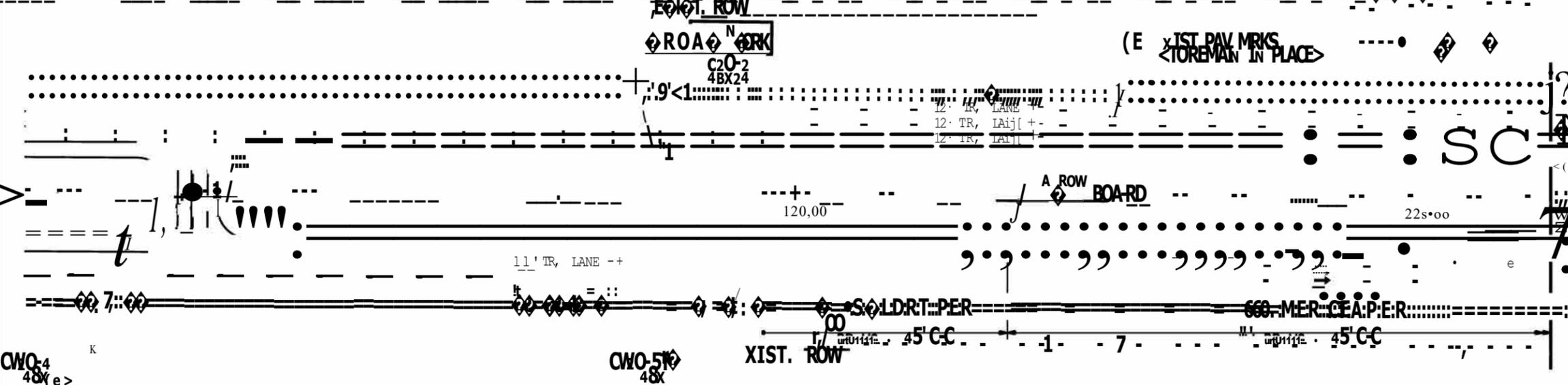
365 TOLL PHASE I-STAGE 1
 TRAFFIC CONTROL PLAN
 ADVANCE WARNING SIGNS
 LAYOUT
 STA. 870+00 TO STA. 910+00

SCALE: 1"=400' SHEET 6 OF 12

DATE	CONT	SECT	JOB	HIGHWAY
09/21/23	02		368	365 TOLL
DIST	COUNTY	SHEET NO.		
HRR	HIDALGO	169		

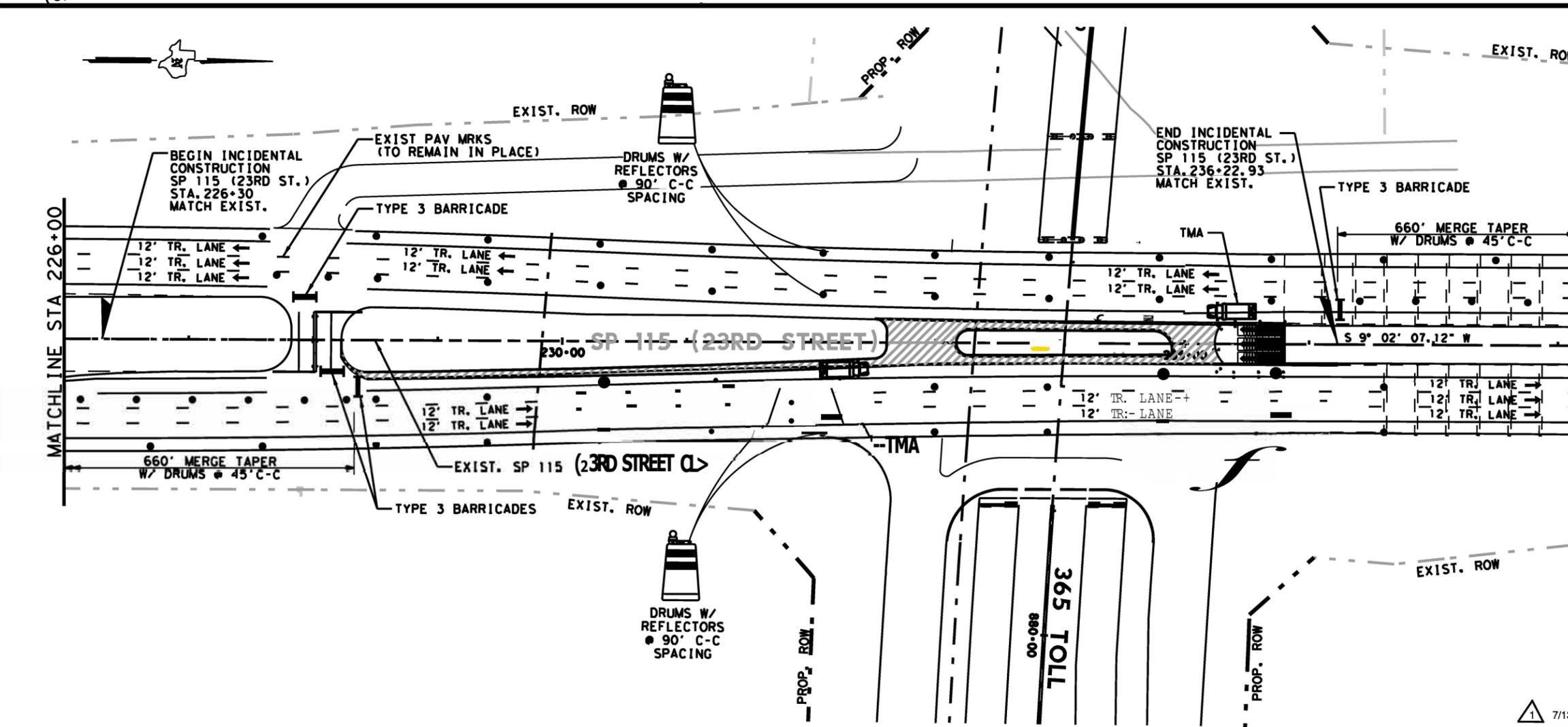
SHEET SUMMARY

STATION LIMITS	ITEM 508	PAVEMENT MARKINGS - ITEM 662								ITEM 677				ITEM 5-45		ITEM 512								
		CONSTRUCTING DETOURS ISYI	NON-REMOVABLE				REMOVABLE				REFLECTORS				SHORT TEAM 11A-B				ELIMINATING EXISTING PAVEMENT MARKINGS				CRASH CUSH	
		4" 11111E BROKEN ILFI	4" 11111E SOLID ILFI	4" YELLOW BROKEN ILF>	4" YELLOW SOLID ILF>	4" 11111E 1D011 ILFI	4" 11111E 1D011 SOLID ILFI	4" YELLOW 1D011 ILF>	4" YELLOW SOLID ILF>	TY 1-C IEA>	TY 11-A-A IEA>	TY W IEA>	TY Y-2 IEA1	4" PAV'MT MARKINGS ILFI	8" PAV'MT MARKINGS CLFI	12" PAV'MT MARKINGS ILFI	24" PAV'MT MARKINGS ILFI	TORD IEAI	ARROI IEAI	ATTEN INSTALL IEAI	ICV RESET IEAI	F INSTALL ILFI	ICV RESET ILFI	
1+00																								
SHEET TOTAL																								



LEGEND	
	CONSTRUCT 10M PHASE
	IORK ZONE PAVMT MARK IIION-REMI 4" WHITE SOLID
	IORK ZONE PAVMT MARK IIION-REMI 4" YELLOW SOLID
	IORK ZONE PAVMT MARK IIION-REMI 4" DOUBLE YELLOW SOLID W ONE TY 11-A-A PAYMENT MARKER SPACED AT EVERY 40'
	IORK ZONE PAVMT MARK IREMI 4" WHITE SOLID
	IORK ZONE PAVMT MARK IREMI 11111E 4- 1D011
	IORK ZONE PAVMT MARK IREMI 4" DOUBLE YELLOW SOLID W ONE TY 11-A-A PAYMENT MARKER SPACED AT EVERY 40'
	IORK ZONE PAVMT MARK IREMI 4" YELLOW 1D011
	IORK ZONE PAVMT MARK IIION-REMI 24" WHITE SOLID
	IORK ZONE PAVMT MARK IIION-REMI 11" WHITE SOLID
	IORK ZONE PAVMT MARK IREMI 6" WHITE 1D011
	IORK ZONE PAVMT MARK IIION-REMI 4" WHITE BROKEN W TIO TY 1-C PAYMENT MARKER SPACED U EVERY 40'
	DIRECTION OF TRAFFIC FLOW
	TYPE 1 BARRICADE
	CHANNELIZING DEVICE
	CONSTRUCT 10M SIGN
	TRAILER MOUNTED FLASHING ARROW BOARD
	HEAVY IORK VEHICLE WITH TRUCK EQUIPPED WITH ATTENUATOR

NOTE: CONTRACTOR SHALL USE AN EIPERIEICE FLAGGER WHENEVER IORK INVOLVES PUBLIC ROAD TRAFFIC,



REV	DATE	DESCRIPTION	APPROVED
1	7/13/23	CLOSED INSIDE LANES WITH BARRELS	MS

STATE OF TEXAS
 MARC H. SORIANO
 128318
 LICENSED PROFESSIONAL ENGINEER
 7/13/2023

HCRMA
 HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 308 McALLEN, TX 78124 (956) 682-3877

L&G Engineering
 Highway / Civil
 Structural / Bridge
 Environmental
 Firm No. - F-4185

PHASE II
 SP 115 <23 0 STREET>
 TRAFFIC CONTROL PLAN
 STA. 21+00 TO STA. 238+20

SCALE: 1" = 100'

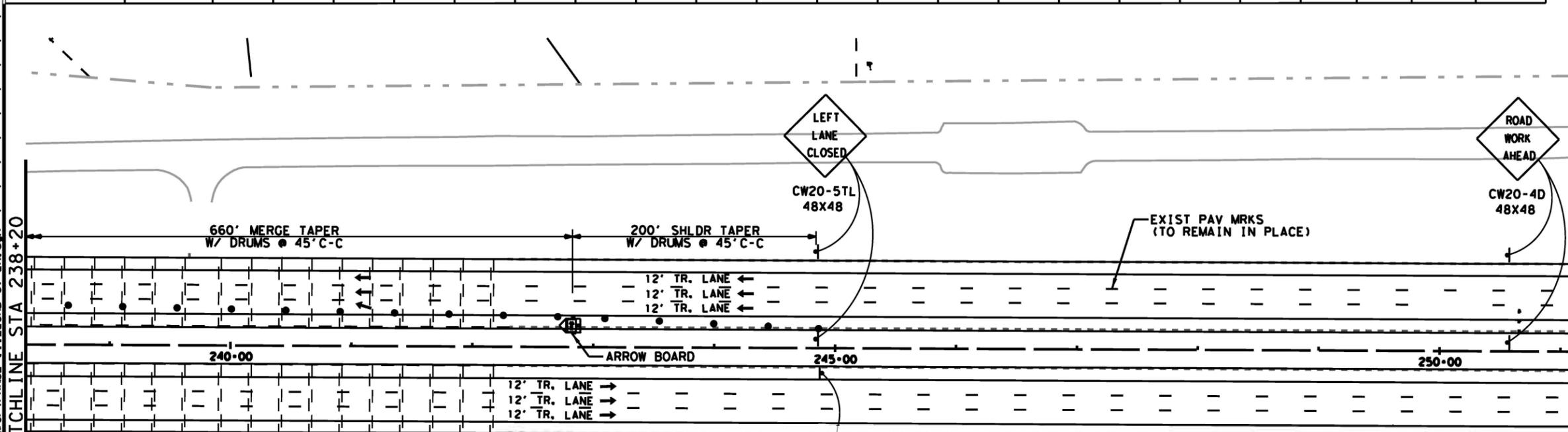
CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	227	

SHEET 1 OF 2

DATE: 7/13/2023 2:03:39 PM
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SHEET SUMMARY

STATION LIMITS	ITEM 508 CONSTRUCTING DETOURS ISYI	PAVEMENT MARKINGS - ITEM 662												ITEM 677						ITEM 5-45		ITEM 512	
		NON-REMOVABLE				REMOVABLE				REFLECTORS		SHORT TEAM 11A-B		ELIMINATING EXISTING PAVEMENT MARKINGS						CRASH CUSH		PORTABLE CTB	
		4-11111E BROKEN ILFI	4-11111E SOLID ILFI	4-YELLOI BROKEN ILF>	4-YELLOI SOLID ILF>	4-11111E 1D011 ILFI	4-11111E SOLID ILFI	4-YELLOI 1D011 ILF>	4-YELLOI SOLID ILF>	TY 1-C IEA>	TY 11-A-A IEA>	TY W IEA>	TY Y-2 IEAI	4-PAV'MT MARKINGS ILFI	a-PAV'MT MARKINGS CLFI	12-PAV'MT MARKINGS ILFI	24-PAV'MT MARKINGS ILFI	WORD IEAI	ARROI IEAI	ATTEN INSTALL IEAI	ICV I RESET IEAI	FUR & INSTALL (LF)	MOV & RESET (LF)
SHEET TOTAL																							



MATCHLINE STA 238+20

END 1 j /
ROAD WORK r
G20.4
48X24

LEGEND	
	CONSTRUCT 10M PHASE
III	10R K ZONE PVI/T MARK INON-REMI 4" WHITE SOL ID
III	10R K ZONE PVI/T MARK INON-REMI 4" YELLOI SOL ID
00III	10R K ZONE PVI/T MARK INON-REMI 4" DOUBLE YELLOI SOLID W ONE TY 11-A-A PAYMENT MARKER SPACED AT EVERY 40'
lg	10R K ZONE PVI/T MARK IREMI 4" WHITE SOL ID
D	10R K ZONE PVI/T MARK IREMI WHITE 4- 1D011
EE	10R K ZONE PVI/T MARK IREMI 4" DOUBLE YELLOI SOLID W ONE TY 11-A-A PAYMENT MARKER SPACED AT EVERY 40'
F	10R K ZONE PVI/T MARK IREMI 4" YELLOW 1D011
G	10R K ZONE PVI/T MARK INON-REMI 24- WHITE SOL ID
IE	10R K ZONE PVI/T MARK INON-REMI 11" WHITE SOL ID
II	10R K ZONE PVI/T MARK IREMI 8" WHITE 1D011
J	10R K ZONE PVI/T MARK INON-REMI 4" WHITE BROKEN W TIO TY 1-C PAYMENT MARKER SPACED U EVERY 40'
....	DIRECTION OF TRAFFIC FLOW
	TYPE I BARRICADE
	CHANNELIZING DEVICE
...	CONSTRUCTION SIGN
	TRAILER MOUNTED FLASHING ARROW BOARD
cm:::i	HEAVY 10R K VEHICLE WITH TRUCK MOUNTED ATTEN/JATOR ITMAI

NOTE: CONTRACTOR SHALL USE AN EIPERIECCE FLAGGER WHENEVER 10R K INVOLVES PUBLIC ROAD TRAFFIC.

DATE	DESCRIPTION	APPROVED
17/13/23	NEW SHEET	MS



rexxos Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION #392
1109 NOLANA LOOP, STE 200 MCALLEN, TX 78504 (956) 682-3677

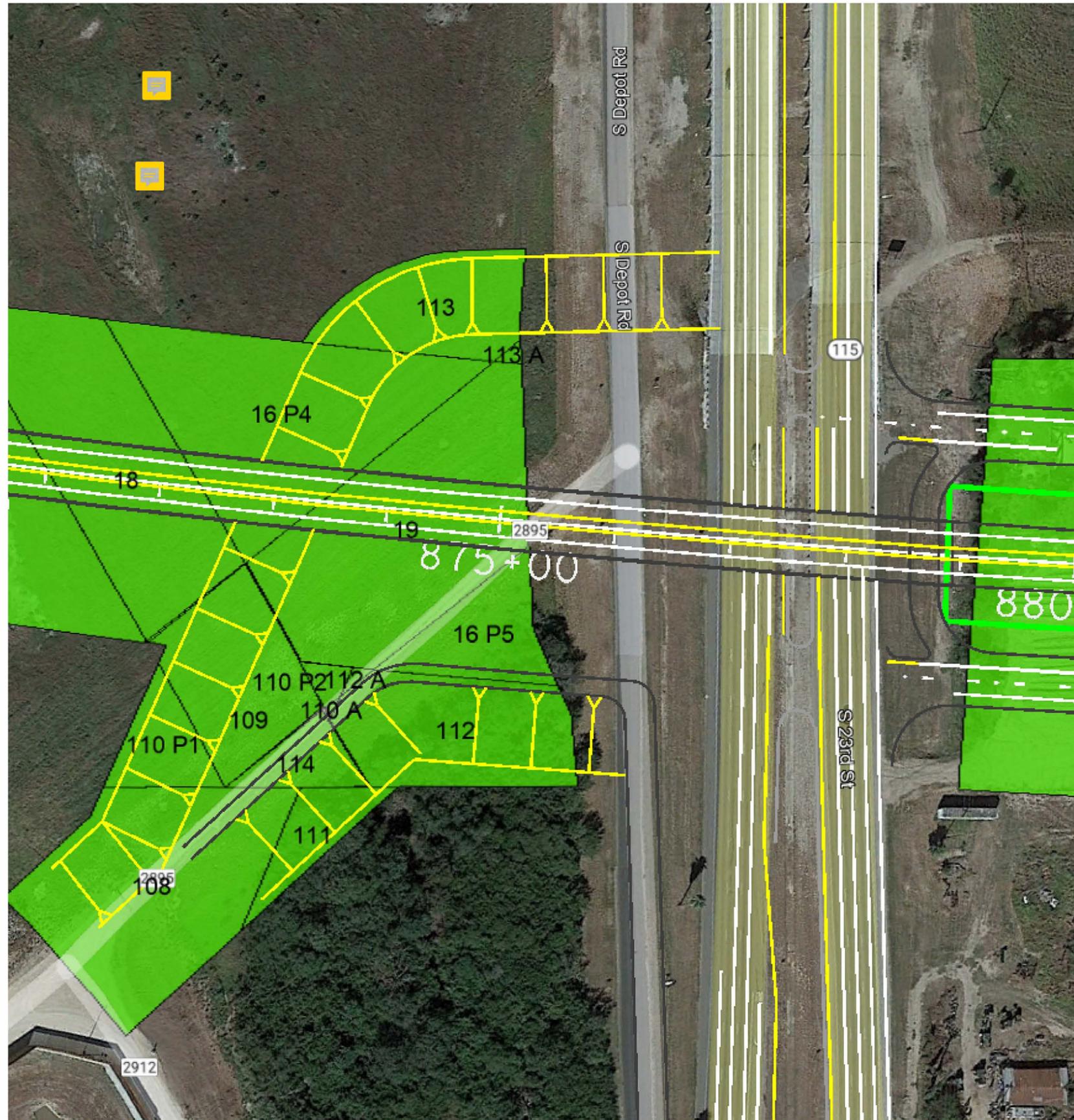
L&G Engineering
Highway / Civil
Structural / Bridge
Environmental
90 S Stewart Rd, Ste. D
McAllen, TX 78504
Phone: (956) 685-9818
Fax: (956) 685-1027

PHASE III
SP 115 <23 0 STREET>
TRAFFIC CONTROL PLAN
STA. 238+20 TO STA. 251+00

SCALE 11, 100' SHEET 2 OF 2

CONTRACT	SECTION	JOB	HIGHWAY
921	021	368	365 TOLL
DISTRICT	COUNTY	SHEET NO.	
PHR	Hidalgo	172107A	

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INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero '0' in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 7

1. CONTRACTOR: PULICE CONSTRUCTION INC.

2. Change Order Work Limits: Sta. 649+00 to Sta. _____

3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

(6H) ROW / UTILITIES - UNKNOWN UNADJUSTED UTILITY
This change resolves an unanticipated utility conflict between the city of Mission 16" waterline casing and proposed drainage line at station 649+00. In lieu of the proposed 5' x 5', an 8'x8' Conflict Manhole must be installed to accommodate construction.

CCSJ:	<u>0921-02-368</u>
Project:	<u>DMO2013(420)</u>
Highway:	<u>365 Tollway</u>
County:	<u>Hidalgo</u>
District:	<u>PHARR</u>
Contract Number:	_____

5. New or revised plan sheet(s) are attached and numbered: attachments

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: _____ Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$13,075.83</u></p>
	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	

RECOMMENDED FOR EXECUTION:

Ramon Navarro IV, Construction Engineer 07/08/24
Name/Title Date

Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

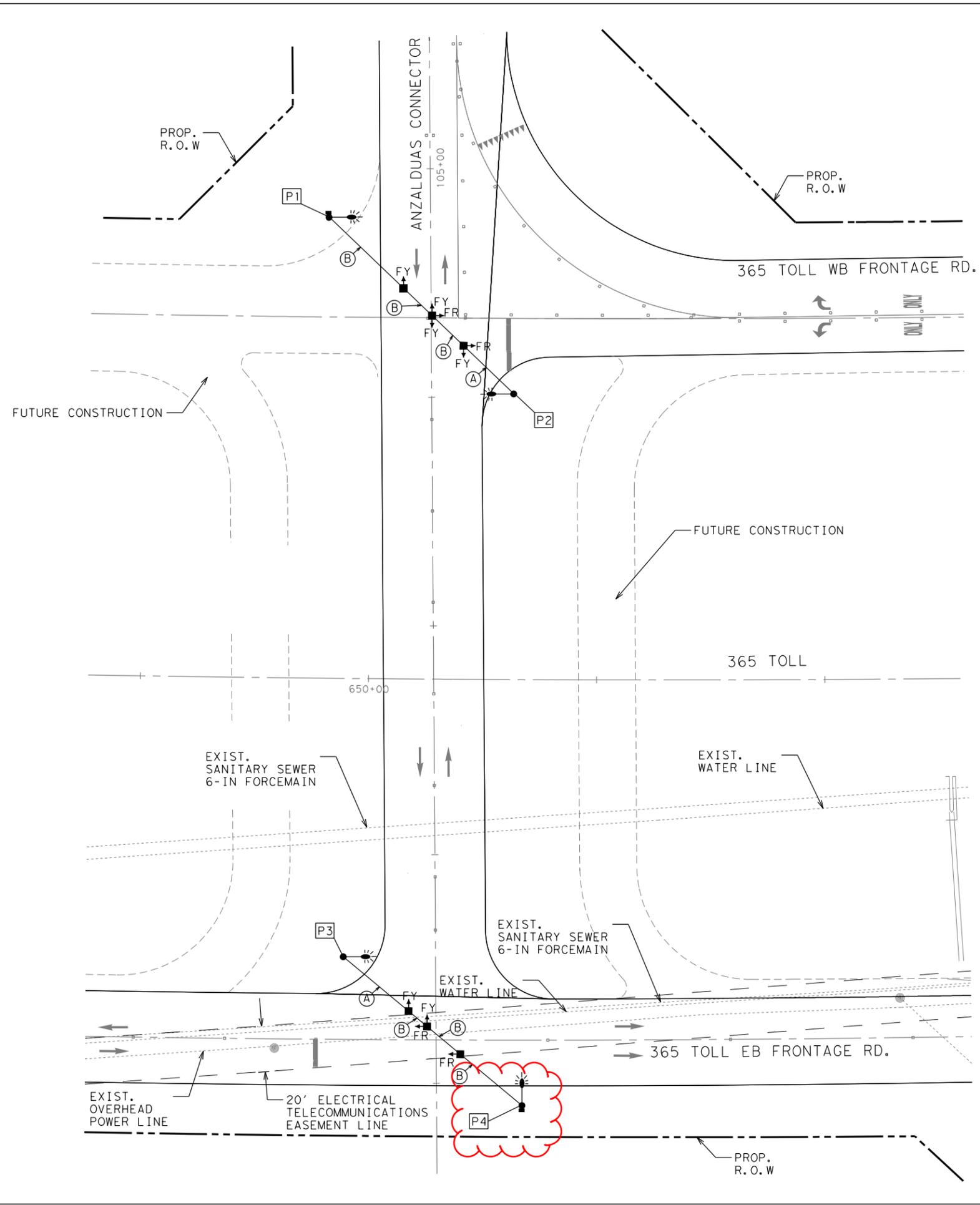
Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date
 APPROVED

Engineer's Seal:

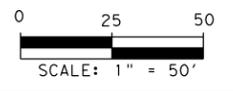
DATE: 6/16/2017
 FILE: c:\project\seid\dammenbaum-hcrma\work\robert.martin\dms34121\SH1365_0032_TraSig_Flash_07.dgn



LEGEND

- PROPOSED STRAIN POLE
- PROPOSED SPAN WIRE MOUNTED 12" FLASHING BEACON HEAD (1 WAY- 1 SECTION)
- PROPOSED SPAN WIRE MOUNTED 12" FLASHING BEACON HEAD (2 WAY- 1 SECTION)
- PROPOSED SPAN WIRE MOUNTED 12" FLASHING BEACON HEAD (3 WAY- 1 SECTION)
- PROPOSED POLE MOUNTED CONTROLLER WITH ELECTRICAL SERVICE
- PROPOSED LUMINAIRE ARM
- FR FLASHING RED
- FY FLASHING YELLOW
- ← DIRECTION OF TRAFFIC FLOW

- NOTES:**
- REFER TO UTILITY LAYOUTS FOR UTILITY RELOCATIONS
 - REFER TO ROADWAY PLANS FOR REMOVAL OF EXISTING ROADWAYS



STEEL STRAIN POLES				
POLE NO.	QUANTITY	POLE DESIGNATION	FOUNDATION	
			TYPE	DEPTH
P1	1	SPL 34 D-100	36-B	15.2'
P2	1	SPL 34 D-100	36-B	15.2'
P3	1	SPL 34 D-100	36-B	15.2'
P4	1	SPL 34 D-100	36-B	15.2'
TOTALS	4			60.8

PROPOSED ELECTRICAL SCHEDULE					
ITEM	TOTAL QTY.	RUN NUMBER	A		POLE
			95	155	
POWER*	120	1/C - # 6 INSULATED			2
GROUND	60	1/C - # 6 BARE			1
SIGNAL CABLE	215	5/C # 12		1	1
LUMINAIRE	370	4/C # 12 (TRAY CABLE)	1	1	2
CONDUIT	8	4" PVC**			

* LOAD CENTER/CONTROLLER SERVICE INTERCONNECT.
 ** PVC IN POLE FOUNDATION (SEE MISCELLANEOUS DETAILS PHARR DISTRICT STANDARD SHEET 2 OF 2).

POLE LOCATIONS			
POLE NO.	DESCRIPTION	STA. ***	OFFSET ***
P1	34' STEEL POLE WITH FLASHER CONTROLLER, LUMINAIRE, METER AND ELECTRIC SERVICE	649+80.56	201.6' L
P2	34' STEEL POLE WITH LUMINAIRE	650+62.69	123.5' L
P3	34' STEEL POLE WITH LUMINAIRE	649+90.27	121.7' R
P4	34' STEEL POLE WITH FLASHER CONTROLLER, LUMINAIRE, METER AND ELECTRIC SERVICE	650+69.30	186.3' R

*** NOTE: STATIONS AND OFFSETS ARE WITH REFERENCE TO THE CENTERLINE OF 365 TOLL. EXACT LOCATIONS SHALL BE DETERMINED AND VERIFIED WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION. POLE LOCATIONS MAY BE ADJUSTED TO AVOID POTENTIAL CONFLICTS WITH UTILITIES.

6/16/2017

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 280 MCALLEN, TX 78504 (956) 682-3677

L&G Engineering
 Highway / Civil Structural / Bridge Environmental
 Firm No. - F-4105
 900 S. Stewart Rd., Ste. 10 Mission, TX 78522
 Phone: (956) 585-9813 Fax: (956) 585-9818

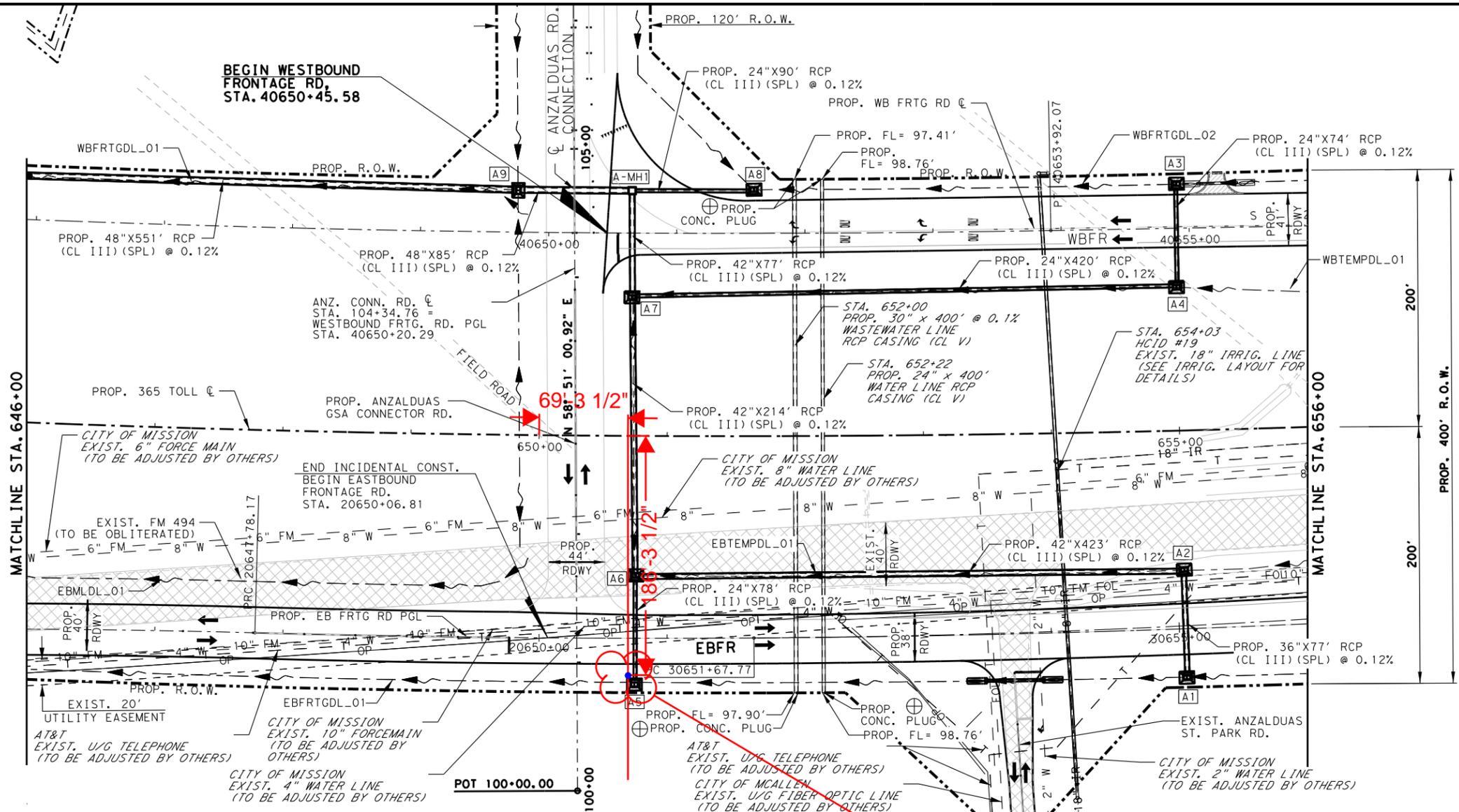
ETSI
 Ergonomic Transportation Solutions, Inc.
 TEXAS REGISTERED ENGINEERING FIRM NO. F - 625
 5300 Hollister Road, Suite 220 Houston, Texas 77040
 Tel: (713) 956-9601 Fax: (713) 956-9667

① 365 TOLL AT ANZALDUAS CONNECTOR ROAD FLASHING BEACON LAYOUT

SCALE: 1" = 50' SHEET 1 OF 1

DN:	RLM	CONT	SECT	JOB	HIGHWAY
CK DN:	HCS	0921	02	368	365 TOLL
CK DW:		DIST	COUNTY	SHEET NO.	
TR:		PHR	HIDALGO	1735	

DATE: 9/26/2017 11:01:04 AM
 FILE: c:\projects\wise\dannenbaum-hcrma\workdir\arvo\dms3376\SH365_0032_ML_UD_01B.dgn



- LEGEND:**
- PROP. CONC. PLUG (NON-PAY ITEM)
 - EXIST. RDWY. TO BE OBLITERATED
 - PROP. DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
 - PROP. CONC. RIPRAP
 - PROP. BRICK PAVERS
 - DRAINAGE STR. ID.
 - DIRECTION OF FLOW IN DITCH
- NOTES:**
1. SEE ALIGNMENT DATA SHEET FOR PROP CENTERLINE DATA.
 2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
 3. ALL OFFSETS GIVEN ARE TO THE CENTER OF THE STRUCTURE.
 4. RECONNECT ON OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. SEE HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES.
 6. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
 7. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
 8. SEE LATERAL X-SECTIONS FOR MORE DETAILED INFO.
 9. ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED OR REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY. REFER TO "INLET TY 'L' CONNECTOR DETAILS" FOR STRUCTURE DETAILS.
 11. ANY DISCREPANCIES IN MANHOLE/INLET ELEVATIONS BETWEEN U&D SHEETS AND HYDRAULIC DATA SHEETS, HYDRAULIC DATA SHEETS SHALL GOVERN. CAST IN PLACE INLET/MANHOLE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE CASTING OPERATIONS BEGIN. ANY ADJUSTMENTS SHALL BE SUBSIDIARY TO BID ITEMS.
 13. PRE-CAST INLETS THAT REQUIRE ELEVATION ADJUSTMENTS DUE TO DIFFERING FIELD CONDITIONS SHALL BE SUBSIDIARY TO BID ITEMS.
 14. FOR ADDITIONAL CASINGS REFER TO TRAFFIC MANAGEMENT SYSTEM SHEETS

- PROPOSED DITCH LINE
- EXISTING FENCE
- EXISTING UTILITIES**
- #W # (DIAM INCH) WATER LINE
- #IR (DIAM INCH) IRRIGATION LINE
- #FM # (DIAM INCH) FORCE MAIN
- #SS # (DIAM INCH) SANITARY SEWER LINE
- #G # (DIAM INCH) GAS PIPELINE
- FOL UNDERGROUND FIBER OPTIC CABLE
- T UNDERGROUND TELEPHONE CABLE
- OFOL OVERHEAD FIBER OPTIC LINE
- OP OVERHEAD ELECTRIC LINE
- OPT OVERHEAD ELECTRIC W/ TELEPHONE LINE
- HVTL HIGH VOLTAGE TRANSMISSION LINE
- P UNDERGROUND ELECTRIC LINE
- POWER POLE

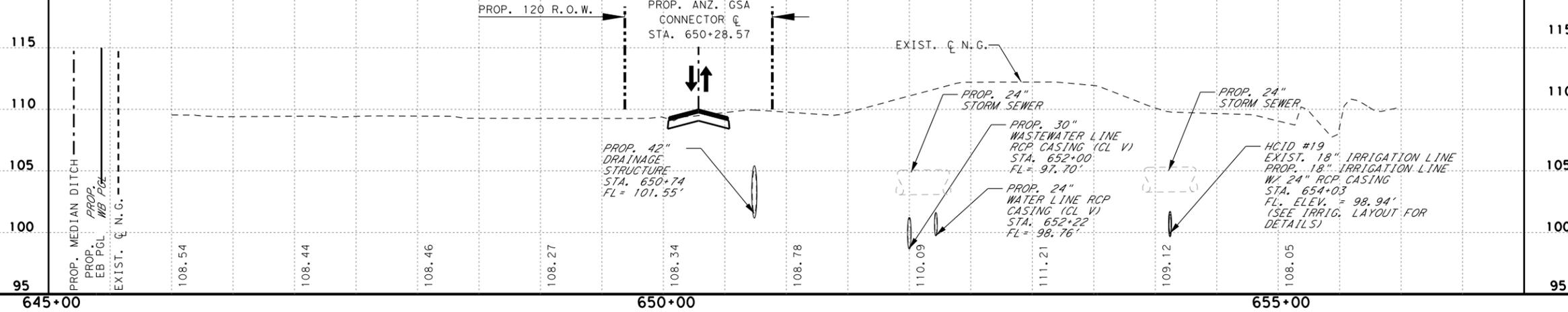


EXIST. & PROP. CENTERLINE AND PROP. CENTER DITCH

*SEE HYDRAULIC SHEETS FOR PAY ITEMS

STRUCTURE ID	DESCRIPTION	STATION / OFFSET TO FACE OF CURB	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
130	A1	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 20655+05, 37.00 RT.	108.67	102.80	-	-	-	-
	A2	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 20655+05, 45.00 LT.	108.67	102.70	-	102.70	-	102.20
	A3	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 40654+90.00, 32.50 LT.	107.31	103.53	-	103.53	-	-
125	A4	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 40654+90, 46.00 RT.	107.31	103.43	103.43	-	-	103.43
	A5	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 20650+75, 35.00 RT.	108.45	103.28	103.28	-	-	-
	A6	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 20650+75, 48.00 LT.	108.45	103.18	101.68	103.18	101.68	-
	A7	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 40650+65.79, 49.00 RT.	107.05	102.92	101.42	101.42	102.92	-
	A8	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 40651+60.28, 32.50 LT.	107.15	102.94	-	-	-	102.94
120	A9	INLET (PSL FG 5'x6' W/ 3'x5' GR) STA. 40649+75, 33.00 LT.	106.96	100.72	-	-	100.72	100.72
	A-MH1	MANHOLE (PSL SL 6'x6')	STA. 40650+65, 33.00 LT.	107.05	102.82	-	101.32	102.82

Traffic Signal Pole 4 will be in conflict with the inlet A5, existing waterline & Power lines.



HCRMA
 HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 200 MCALLEN, TX 78504 (956) 682-3677

L&G Engineering
 Highways / Civil
 Structural / Bridge
 Environmental
 Firm No. : F-4105

365 TOLL MAINLANES
 UTILITY AND DRAINAGE
 STA. 646+00 TO STA. 656+00

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 2 OF 68

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	930	

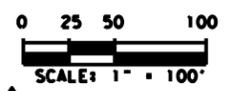
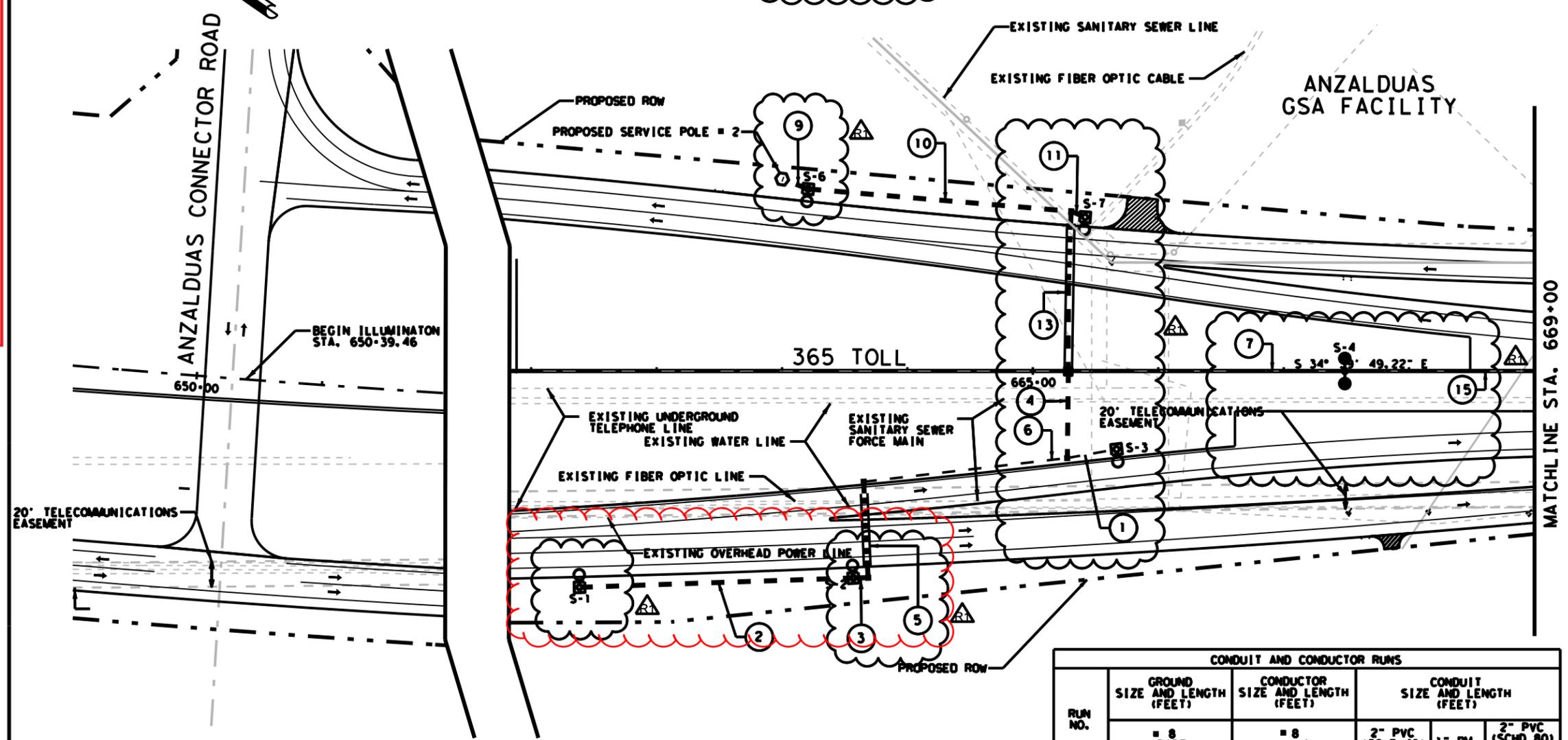
This sheet was not changed as part of the VECP design process and remains in its original IFC state.

DATE RECEIVED: 01/06/2023
 DATE ACCEPTED: 01/20/2023
 BY: Samuel Saldívar, Jr.

EFFECTIVE PLAN SHEET - RELEASED FOR CONSTRUCTION
 THE HCRMA HAS ACCEPTED THIS AS THE GOVERNING CONTRACT DOCUMENT UPON VERIFICATION FROM POLICE CONSTRUCTION, INC. THAT EITHER NO CHANGE WAS MADE, MINOR REVISION WAS MADE, OR A COMPLETE REPLACEMENT OF THE SHEET WAS MADE TO CONFORM TO THE EFFECTIVE CONTRACT FOR THE 365 TOLLWAY SEGMENTS 1 AND 2 (CSJ: 0921-02-368).

ROADWAY ILLUMINATION ASSEMBLY LOCATIONS			
LUM. NO.	STATION	OFFSET	ASSEMBLY STANDARD
S-1	661+38.61	171.93' RT	(SA 40T-12) (250W EO) LED
S-2	663+56.85	164.54' RT	(SA 40T-12) (250W EO) LED
S-3	665+68.72	0.00' RT	(SA 40T-12) (250W EO) LED
S-4	667+48.78	0.00' LT	(SP 48S-4-4) (400W EO) LED
S-6	663+20.81	144.76' LT	(SA 40T-12) (250W EO) LED
S-7	665+41.65	122.38' LT	(SA 40T-12) (250W EO) LED

LEGEND	
■	PROPOSED GROUND BOX
■	PROPOSED JUNCTION BOX
▲	PROPOSED U/P ROADWAY ILLUMINATION TYPE I (150W EO) LED
▲	PROPOSED U/P ROADWAY ILLUMINATION TYPE II (150W EO) LED
○	PROPOSED (TY SP 38S-4) (250W EO) LED
○	PROPOSED (TY SA 40T-12) (250W EO) LED
○	PROPOSED (TY SA 40T-12-12) (250W EO) LED
○	PROPOSED (TY SP 48S-4-4) (400W EO) LED
○	PROPOSED (TY SA 50T-12) (250W EO) LED
○	PROP. ELECTRICAL SERVICE (METERED) TY A 240/480 060 (NS) SS (E) SP (O)
○	CONDUIT RUN NUMBER
---	PROPOSED 1" (SCH 40) PVC CONDUIT
---	PROPOSED 1" RM CONDUIT
---	PROPOSED 2" (SCH 40) PVC CONDUIT
---	PROPOSED 2" (SCH 80) PVC CONDUIT BORE



REVISD 12-07-2022

NON-CLOUDED AREAS WILL BE RESPONSIBILITY OF THE ENGINEER OF RECORD, FOR THE RESPECTIVE CHANGES SHOWN IN PREVIOUS REVISIONS OF THIS SHEET.

OTHON INC. F-1471

HCRMA
 HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

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Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
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 1109 NOLANA LOOP, STE 200 MCALLEN, TX 78504 (956) 682-3877

TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

365 TOLL
 PROPOSED ROADWAY
 ILLUMINATION
 STA 649+00 TO STA 669+00

SCALE: 1" = 100' SHEET 1 OF 48

REV#	DATE	EOR	CONT	SECT	JOB	HIGHWAY
0	06/16/2017	CS			368	365 TOLL
1	12/07/2022	JB	0921	02		
			DIST		COUNTY	SHEET NO.
			PHR		HIDALGO	1787

ILLUMINATION QUANTITIES - SHEET TOTALS				
ITEM NO.	DESC. CODE	DESCRIPTION	UNIT	SHEET TOTAL
416	6029	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	50
432	6009	RIP-RAP (CONC) (6" x 1 1/2")	CY	1.75
610	6218	IN RD IL (TY SA) 40T-12 (250W EO) LED	EA	5
610	6261	IN RD IL (TY SP) 48S-4-4 (400W EO) LED	EA	1
618	6023	COND (PVC) (SCH 40) (2")	LF	1150
618	6047	COND (PVC) (SCH 80) (2") (BORE)	LF	205
620	6007	ELEC CONDR (NO. 8) BARE	LF	1355
620	6008	ELEC CONDR (NO. 8) INSULATED	LF	2710
624	6002	GROUND BOX TY A (122311) W/APRON	EA	4
		JUNCTION BOX	EA	1
628	6045	ELC SRV TY A 240/480 060 (NS) SS (E) SP (O)	EA	1

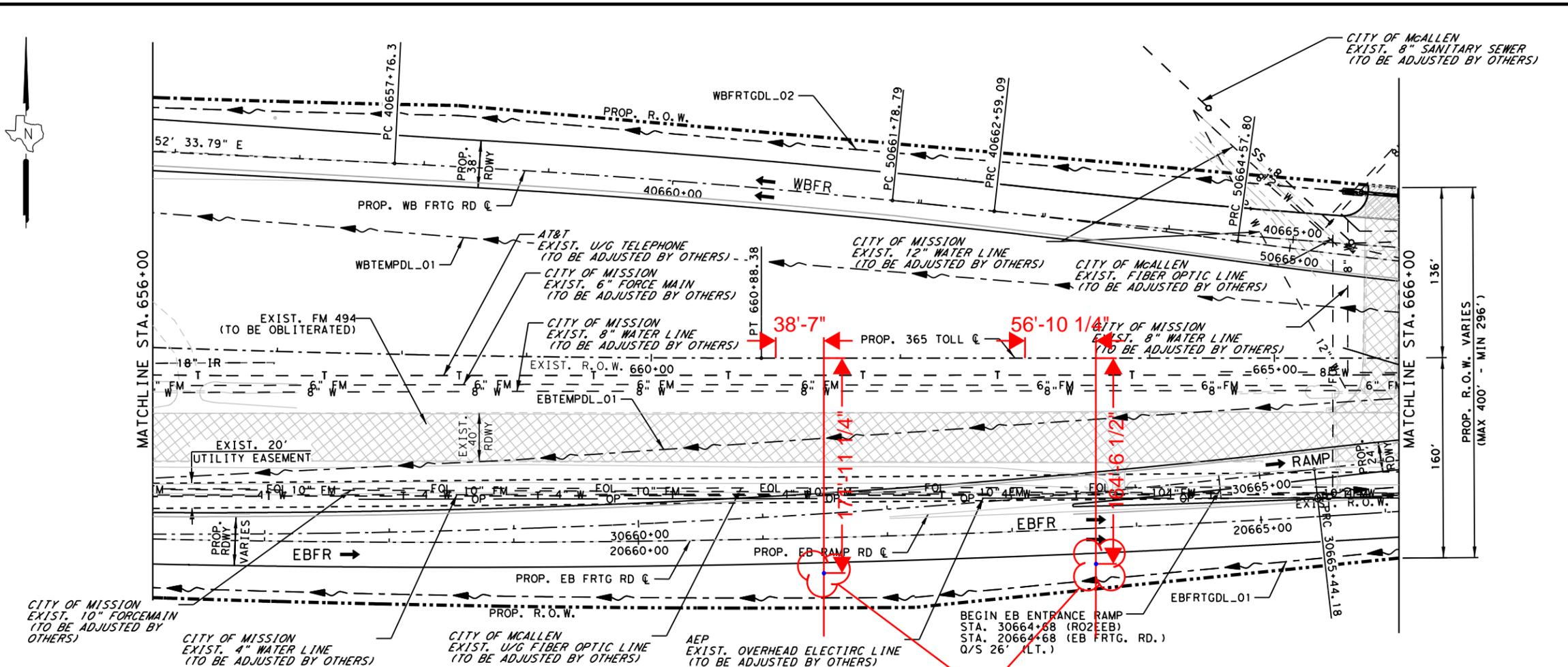
* FOR CONTRACTORS INFORMATION ONLY

- NOTES:
- POLE LOCATIONS MAY BE ADJUSTED BY 3' TO 5' IN ORDER TO AVOID THE EXISTING AND PROPOSED UTILITIES AND DRAINAGE STRUCTURES.
 - ALL INDICATED LENGTHS IN CONDUIT AND CONDUCTOR RUNS ARE HORIZONTAL ONLY. ALLOW FOR SPLICING AND VERTICAL REQUIREMENTS.
 - ALL STATION NUMBERS PRESENTED HERE ARE REFERENCED TO THE CENTERLINE OF 365 TOLL.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES BEFORE DRILLING FOR LUMINAIRE POLE FOUNDATIONS AND SERVICE POLES.
 - REFER TO UTILITY LAYOUTS FOR UTILITY RELOCATIONS.
 - FOR ADDITIONAL ILLUMINATION ITEMS REFER TO TRAFFIC MANAGEMENT SYSTEM SECTION ILLUMINATION LAYOUTS.

RUN NO.	GROUND SIZE AND LENGTH (FEET)		CONDUCTOR SIZE AND LENGTH (FEET)		CONDUIT SIZE AND LENGTH (FEET)	
	# 8 BARE	# 8 XHHW	2" PVC (SCHD 40)	1" RM	2" PVC (SCHD 80) BORE	
ELECTRICAL SERVICE POLE # 2 - CIRCUIT A						
1	40	80	40			
2	220	440	220			
3	15	30	15			
4	75	150	75			
5	75	150			75	
6	165	230	165			
9	25	50	25			
10	215	430	215			
11	15	30	15			
13	130	260			130	
ELECTRICAL SERVICE POLE # 2 - CIRCUIT B						
7	225	450	225			
15	155	310	155			

DATE: FILE:

DATE: 6/19/2017 6:42:20 PM
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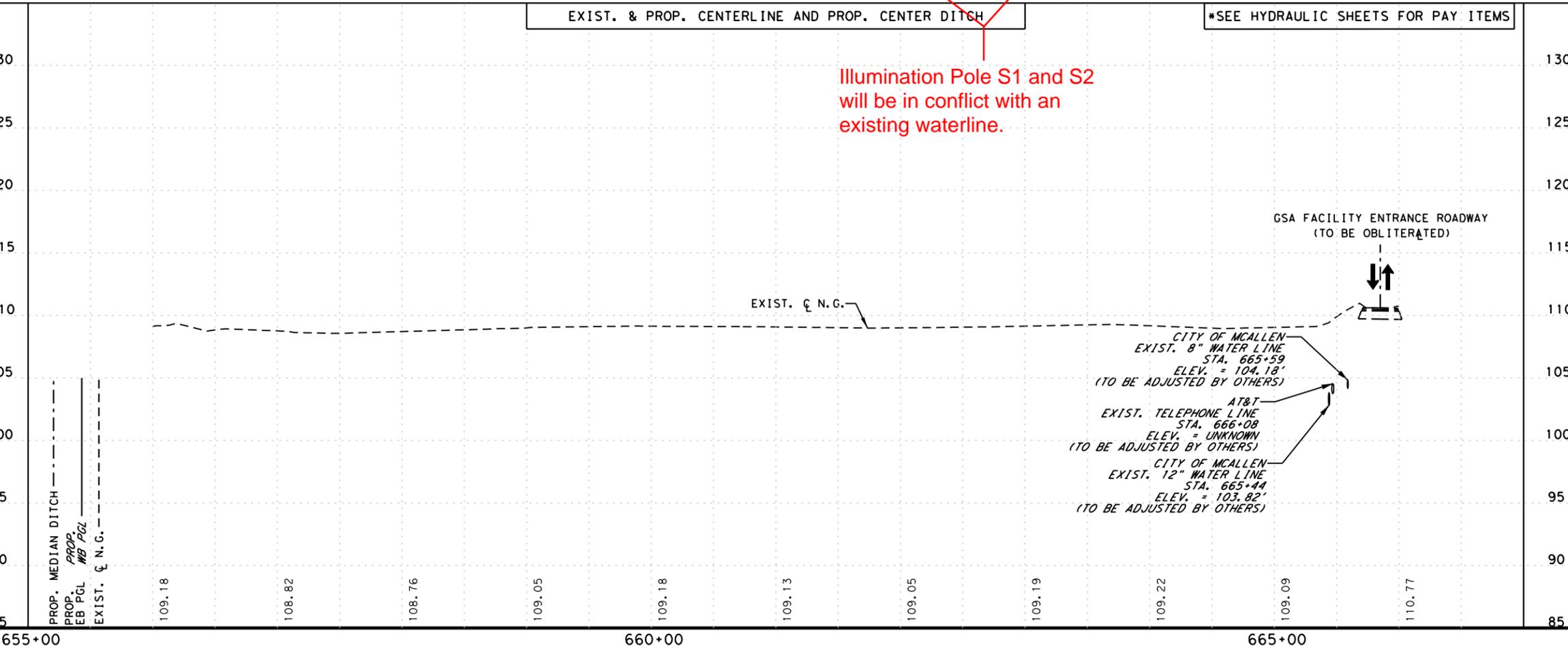
- ⊕ PROP. CONC. PLUG (NON-PAY ITEM)
- ▨ EXIST. RDWY. TO BE OBLITERATED
- ▨ PROP. DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
- ▨ PROP. CONC. RIPRAP
- ▨ PROP. BRICK PAVERS
- ▭ DRAINAGE STR. ID.
- DIRECTION OF FLOW IN DITCH

NOTES:

1. SEE ALIGNMENT DATA SHEET FOR PROP CENTERLINE DATA.
2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
3. ALL OFFSETS GIVEN ARE TO THE CENTER OF THE STRUCTURE.
4. RECONNECT ON OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
5. SEE HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES.
6. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
7. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
8. SEE LATERAL X-SECTIONS FOR MORE DETAILED INFO.
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11. PRE-CAST INLETS THAT REQUIRE ELEVATION ADJUSTMENTS DUE TO DIFFERING FIELD CONDITIONS SHALL BE SUBSIDIARY TO BID ITEMS.
12. FOR ADDITIONAL CASINGS REFER TO TRAFFIC MANAGEMENT SYSTEM SHEETS

EXISTING UTILITIES

- #W- # (DIAM INCH) WATER LINE
- #IR- (DIAM INCH) IRRIGATION LINE
- #FM- # (DIAM INCH) FORCE MAIN
- #SS- # (DIAM INCH) SANITARY SEWER LINE
- #G- # (DIAM INCH) GAS PIPELINE
- FOL- UNDERGROUND FIBER OPTIC CABLE
- T- UNDERGROUND TELEPHONE LINE
- C- UNDERGROUND CABLE
- OFOL- OVERHEAD FIBER OPTIC LINE
- OP- OVERHEAD ELECTRIC LINE
- OPT- OVERHEAD ELECTRIC W/ TELEPHONE LINE
- HVTL- HIGH VOLTAGE TRANSMISSION LINE
- P- UNDERGROUND ELECTRIC LINE
- POWER POLE



STATE OF TEXAS
 CHRISTOPHER R. RODRIGUEZ
 107692
 LICENSED PROFESSIONAL ENGINEER
 06/19/2017

HCRMA
 HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

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 Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
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 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 200 MCALLEN, TX 76904 (956) 982-3677

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 Mercedes, TX 78059
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 Fax: (956) 565-9018
 900 S. Stewart Rd., Ste. 10
 Mission, TX 78172
 Phone: (956) 585-1909
 Fax: (956) 585-1927

365 TOLL MAINLANES
 UTILITY AND DRAINAGE
 STA. 656+00 TO STA. 666+00

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 3 OF 68

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	931	

This sheet was not changed as part of the VECP design process and remains in its original IFC state.

INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 8

1. CONTRACTOR: PULICE CONSTRUCTION INC.

2. Change Order Work Limits: Sta. 732+94 to Sta. _____

3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

(6G) ROW / UTILITIES KNOWN UNADJUSTED UTILITY
The 60" drill shafts from FM 494 Bent 2 are in conflict with placed 24" water line casing. The existing 24" RCP CL V water line casing would need to be removed and relayed using the same pipe. Estimated damaged pipe would need to be new RCP.

CCSJ:	<u>0921-02-368</u>
Project:	<u>DMO2013(420)</u>
Highway:	<u>365 Tollway</u>
County:	<u>Hidalgo</u>
District:	<u>PHARR</u>
Contract Number:	_____

5. New or revised plan sheet(s) are attached and numbered: ATTACHMENTS

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: _____ Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$20,932</u></p>
	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	

RECOMMENDED FOR EXECUTION:

RAMON NAVARRO IV, CONSTRUCTION ENG 07/08/24
Name/Title _____ Date _____

Name/Title _____ Date 07/08/24
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED

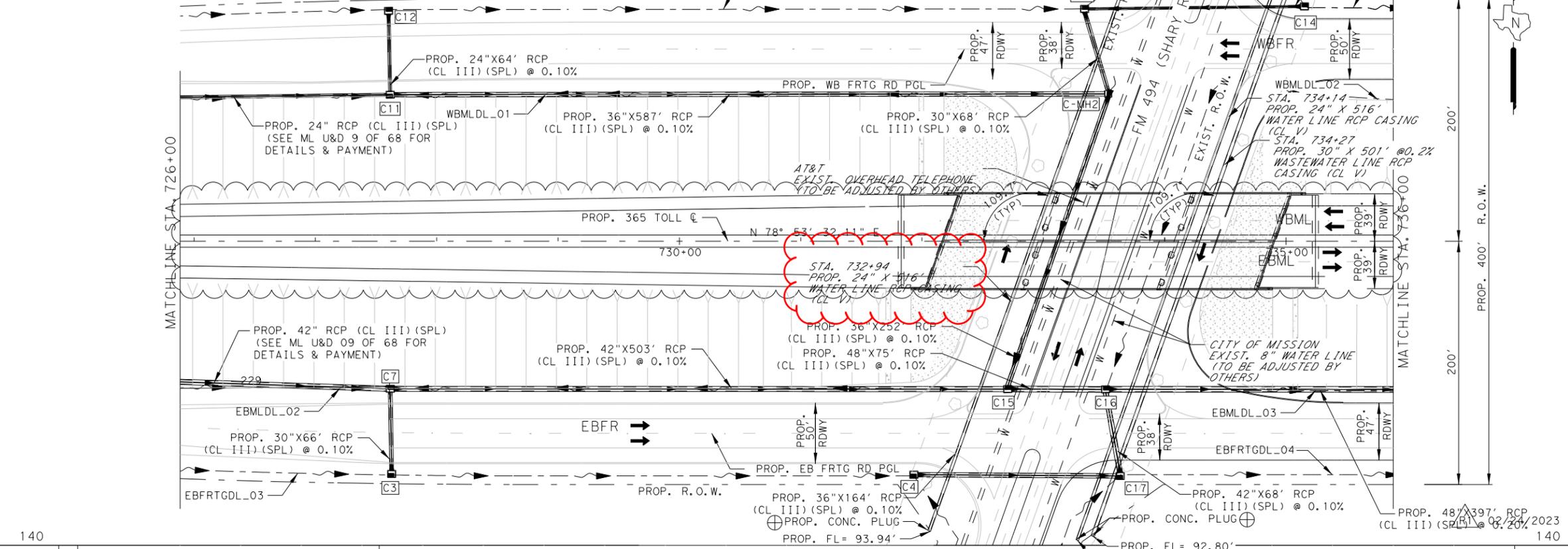
Engineer's Seal:

DATE RECEIVED: 02/24/2023
 DATE ACCEPTED: 03/07/2024
 BY: Samuel Saldívar, Jr.

EFFECTIVE PLAN SHEET - RELEASED FOR CONSTRUCTION
 THE HCRMA HAS ACCEPTED THIS AS THE GOVERNING CONTRACT
 DOCUMENT UPON VERIFICATION FROM PUBLIC CONSTRUCTION, INC.
 THAT EITHER: NO CHANGE WAS MADE, MINOR REVISION WAS MADE,
 OR A COMPLETE REPLACEMENT OF THE SHEET WAS MADE TO
 CONFORM TO THE EFFECTIVE CONTRACT FOR THE 365
 TOLLWAY SEGMENTS 1 AND 2 (CSJ: 092-1-02-368).

DATE: 24/02/2023 10:13:18
 FILE: c:\project\wise\dannenbaum-hcrma\work\kdr\sgonzalez\dms74251\SH365_0030PCI_ML_UD_07.dgn

STR. ID	DESCRIPTION	STATION / OFFSET TO PROP. B/C	TOP OF STR. EL.	PROP. FL. OF STR.	PROP. FL. (NORTH)	PROP. FL. (SOUTH)	PROP. FL. (EAST)	PROP. FL. (WEST)
C3	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 20729+10, 34 RT	104.62	98.72	-	-	-	-
C4	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 20733+40, 34 RT	104.06	97.80	-	-	97.80	-
C7	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 20729+08, 36 LT	104.62	98.65	-	98.65	-	97.65
C11	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 40726+05, 36 RT	102.76	98.85	98.85	-	-	97.85
C12	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 40726+05, 33 LT	104.52	98.92	-	-	98.92	-
C13	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 40731+78, 33 LT	103.83	98.83	-	-	97.83	98.83
C14	INLET (PSL FG 5'x6' W/ 3'x5' GR)	STA. 40733+59, 20, 35 LT	105.95	99.01	-	-	-	99.01



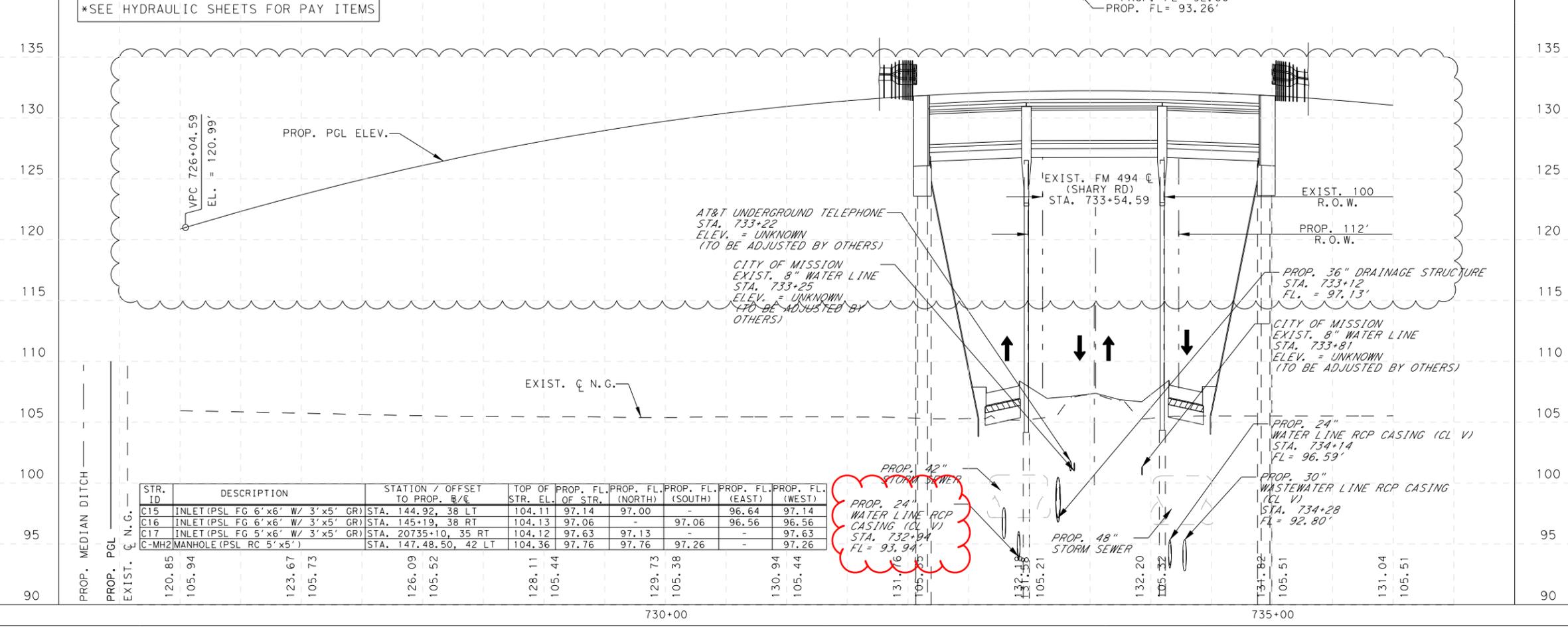
LEGEND:

- PROP. CONC. PLUG (NON-PAY ITEM)
- EXIST. ROWAY. TO BE OBLITERATED
- PROP. DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR SET'S & PIPE QUANTITIES)
- PROP. CONC. RIPRAP
- PROP. BRICK PAVERS
- DRAINAGE STR. ID.
- DIRECTION OF FLOW IN DITCH

NOTES:

- SEE ALIGNMENT DATA SHEET FOR PROP CENTERLINE DATA.
- ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
- ALL OFFSETS GIVEN ARE TO THE CENTER OF THE STRUCTURE.
- RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
- SEE "HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES."
- SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
- FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS.
- SEE LATERAL X-SECTIONS FOR MORE DETAILED INFO.
- ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED OR REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.
- REFER TO "INLET TY 'L' CONNECTOR DETAILS" FOR STRUCTURE DETAILS.
- ANY DISCREPANCIES IN MANHOLE/INLET ELEVATIONS BETWEEN U&D SHEETS AND HYDRAULIC DATA SHEETS, HYDRAULIC DATA SHEETS SHALL GOVERN.
- CAST IN PLACE INLET/MANHOLE ELEVATIONS SHALL BE FIELD VERIFIED BEFORE CASTING OPERATIONS BEGIN. ANY ADJUSTMENTS SHALL BE SUBSIDIARY TO BID ITEMS.
- PRE-CAST INLETS THAT REQUIRE ELEVATION ADJUSTMENTS DUE TO DIFFERING FIELD CONDITIONS SHALL BE SUBSIDIARY TO BID ITEMS.
- FOR ADDITIONAL CASINGS REFER TO TRAFFIC MANAGEMENT SYSTEM SHEETS.

PROPOSED DITCH LINE
 X ——— PROPOSED DITCH LINE
EXISTING UTILITIES
 #W — (DIAM INCH) WATER LINE
 #IR — (DIAM INCH) IRRIGATION LINE
 #FM — (DIAM INCH) FORCE MAIN
 #SS — (DIAM INCH) SANITARY SEWER LINE
 #G — (DIAM INCH) GAS PIPELINE
 #FOL — UNDERGROUND FIBER OPTIC CABLE
 #T — UNDERGROUND TELEPHONE LINE
 #C — UNDERGROUND CABLE
 #FOL — OVERHEAD FIBER OPTIC LINE
 #OP — OVERHEAD ELECTRIC LINE
 #OPT — OVERHEAD ELECTRIC W/ TELEPHONE LINE
 #HVTL — HIGH VOLTAGE TRANSMISSION LINE
 #P — UNDERGROUND ELECTRIC LINE
 # — POWER POLE



NON-CLOUDED AREAS WILL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD, FOR THE RESPECTIVE CHANGES SHOWN IN PREVIOUS REVISIONS OF THIS SHEET.

OTHON INC.
 F-1471

Michael Liang

2/28/23

©2023
 Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

L&G Engineering
 Highway / Civil
 Structural / Bridge
 Environmental
 Firm No. : F-4105

2100 W. Expressway 83
 Mercedes, TX 78570
 Phone : (956) 565-8013
 Fax : (956) 565-8018

900 S. Stewart Rd., Ste. 10
 Mission, TX 78572
 Phone : (956) 585-1909
 Fax : (956) 585-1927

365 TOLL MAINLANE
 UTILITY AND DRAINAGE
 STA. 726+00 TO STA. 736+00

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 10 OF 68

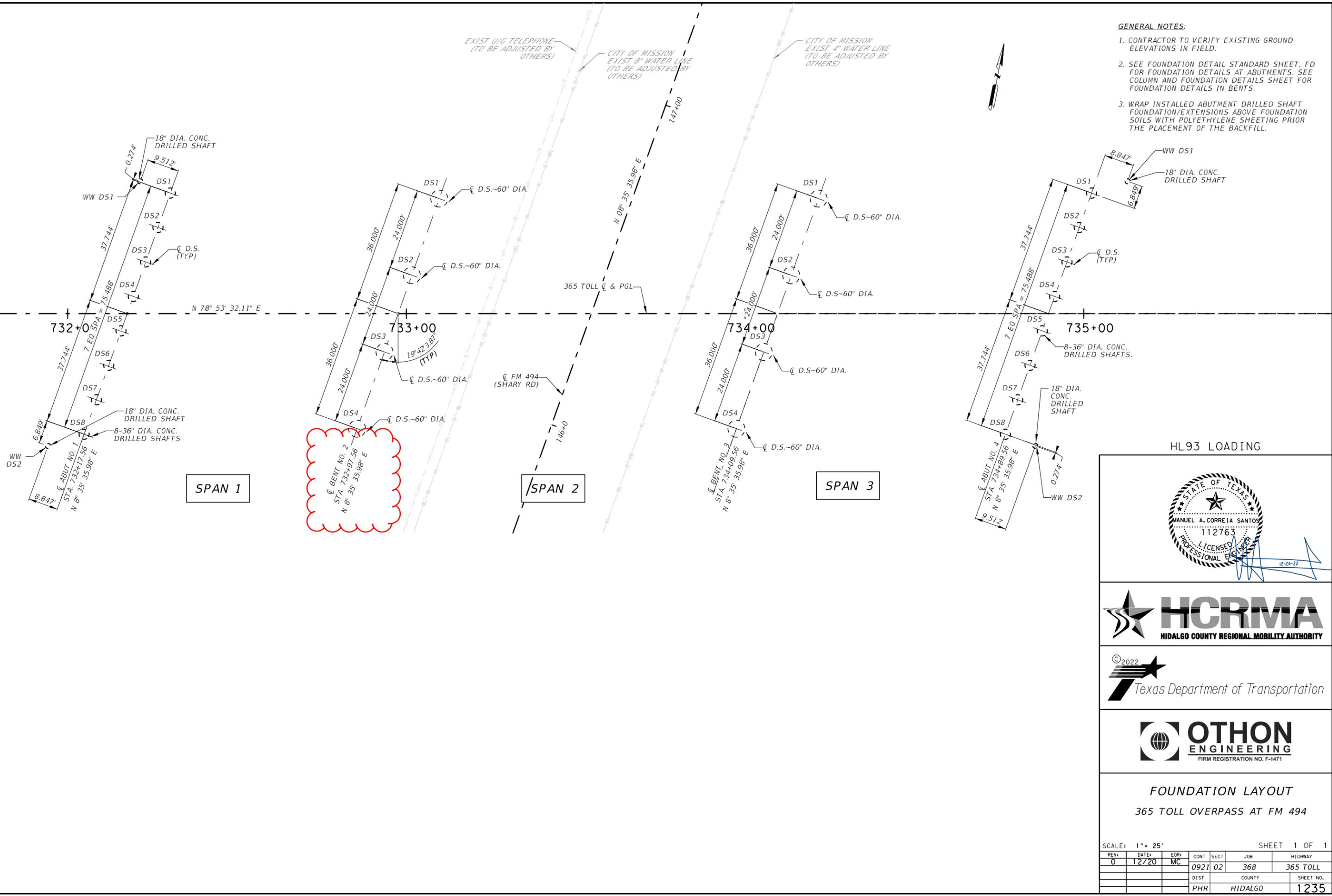
REV	DATE	EOR	CONT	SECT	JOB	HIGHWAY
0	09/26/2017	CR			368	365 TOLL
1	02/24/2023	ML	0921	02		

DIST	COUNTY	SHEET NO.
PHR	HIDALGO	938

DATE RECEIVED: 12/22/2022
 DATE ACCEPTED: 01/04/2023
 BY: Samuel Saldivar, Jr.

EFFECTIVE PLAN SHEET - RELEASED FOR CONSTRUCTION
 THE HCRMA HAS ACCEPTED THIS AS THE GOVERNING CONTRACT DOCUMENT UPON VERIFICATION FROM POLICE CONSTRUCTION, INC. THAT EITHER: NO CHANGE WAS MADE, MINOR REVISION WAS MADE, OR A COMPLETE REPLACEMENT OF THE SHEET WAS MADE TO CONFORM TO THE EFFECTIVE CONTRACT FOR THE 365 TOLLWAY SEGMENTS 1 AND 2 (CSJ: 0921-02-368).

DATE: 21/12/2022 12:33:06
 FILE: c:\projectwise\dannenbaum-hcrma\workdir\sgonzalez\dms74796\0030_105_SH365_BR01_ML_FNDPI.dwg



- GENERAL NOTES:**
- CONTRACTOR TO VERIFY EXISTING GROUND ELEVATIONS IN FIELD.
 - SEE FOUNDATION DETAIL STANDARD SHEET, FD FOR FOUNDATION DETAILS AT ABUTMENTS. SEE COLUMN AND FOUNDATION DETAILS SHEET FOR FOUNDATION DETAILS IN BENTS.
 - WRAP INSTALLED ABUTMENT DRILLED SHAFT FOUNDATION/EXTENSIONS ABOVE FOUNDATION SOILS WITH POLYETHYLENE SHEETING PRIOR THE PLACEMENT OF THE BACKFILL.

SPAN 1

SPAN 2

SPAN 3

CL BENT NO. 2
 STA. 732+97.36
 N 8° 35' 35.98" E

HL93 LOADING



FOUNDATION LAYOUT
 365 TOLL OVERPASS AT FM 494

SCALE: 1" = 25' SHEET 1 OF 1

REV:	DATE:	EOR:	CONT	SECT	JOB	HIGHWAY
0	12/20	MC	0921	02	368	365 TOLL
			DIST		COUNTY	SHEET NO.
			PHR		HIDALGO	1235

INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 9

Estimated Cost: -\$1,782

CCSJ: 0921-02-368

Paid by Invoice? (Yes No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

TABLE B: Contract Items

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		NEW		OVERRUN/ UNDERRUN	
				QUANTITY	ITEM COST	QUANTITY	ITEM COST		
4024-6004	RC LHPP(CLIII)(30")	LF	168.00	0.00	0.00	891.00	149,688.00	149,688.00	
4024-6005	RC LHPP(CLIII)(36")	LF	170.00	1,631.00	277,270.00	740.00	125,800.00	- 151,470.00	
TOTALS						277,270.00		275,488.00	- 1,782.00

CHANGE ORDER PROPOSAL

December 11, 2023

DCN: Pulice-HCRMA-0037

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
HC Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

FROM: Rafael Carmona
Project Manager
Pulice Construction Inc.
7902 S. 10th Street,
McAllen, TX 78503

RE: Project: CSJ 0039-02-063 – Change Order 30" LHPP

*TOTAL 391
157" ENCLOSED ON OS*

SCOPE: The scope of this change is to adjust Irrigation items per RFI 82.

CHANGE JUSTIFICATION: Per RFI 82 due to existing field conditions, the irrigation line from station 752+36.15 to 760+66.11 increased the size and type of pipe from 18" Pressure Irrigation PVC pipe to 30" LHPP or 36" LHPP (Depending on material availability). On Change Order 5, the 18" PVC was replaced by 36" LHPP. However, due to material availability the 30 LHPP was installed instead. This change is to add the 30" LHPP to replace the 36" LHPP.

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED: RFI 85

CHANGE TO CONTRACT PRICE: We're requesting additional compensation for these changes as detailed below. The detail breakdown of this amount is included with the change order for your information.

*INFO # 4235
CREATE ITEM*

Item	Description	Unit	Unit Price	Projected Qty	CO Qty	Revised Qty	CO Amount
4024 6004	RC LHPP (CL III) (30")	LF	\$ 170.00	0.00	891.00	891.00	\$ 151,470.00
4024 6005	RC LHPP (CL III) (36")	LF	\$ 170.00	1,631.00	-891.00	740.00	-\$ 151,470.00

168

ORIGINAL 151 LF

\$ 0.00

CHANGE TO CONTRACT TIME: No additional time requested with this work.

- 1780

If you have any questions or need additional information, please contact me at (346) 324-0781.

Sincerely,

Rafael Carmona
Project Manager
Pulice Construction Inc.

*891
151

1740*

*1631
891

740
151

891*

RECEIVED

By Ramon Navarro IV, P.E. at 3:10 pm, Jun 12, 2023



REQUEST FOR INFORMATION

No. HCRMA 365.RFI.082

TITLE: Sheet 1181 Discrepancy in RCP Size
PULICE PROJECT: 62-016-HCRMA 365 TOLL
OWNER PROJECT: CSJ: 0921-02-368

DATE: 6/12/2023
RESPONSE REQUIRED BY: 6/19/2023

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

WORK IMPACT: YES NO **SCHEDULE IMPACT:** YES NO **COST IMPACT:** YES NO

REQUEST: Please see attached IOC RFI regarding sheet 1181 and 1181A discrepancies. Can the HCRMA please confirm that the proposed pipe should be 18" even though the existing pipe is 30" and not 18" as called in the plans? Also, can the HCRMA confirm the size of the standpipe if there is a change in size to the pipe? Thank you.

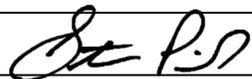
REF. DRAWINGS: 1181, 1181A

REQUESTED BY: Thomas Rodriguez

DATE: 6/12/2023

ANSWER:

See attached revisions to plan sheets 1181 and 1181A showing 30in RCLHPP in place of the planned 18in PVC. If material availability of 30in RCLHPP is an issue, 36in RCLHPP is an acceptable substitution. Use of 36in RCLHPP may also require 48in stand pipes at the tie-in locations.

ANSWER SIGNED BY: 

DATE: 06/26/2023

- CC:** Sergio Mandujano - HCRMA
- Ronald Reyes -HCRMA
- Rafael Carmona - Pulice
- Jose Rivera - Pulice
- Luis Salinas - Pulice

IOC Company, LLC
9312 E Curve Rd
Edinburg, Texas 78542
956-380-2897

Request For Information: _____ RFI# 53

Date: 6/8/2023

To: Pulice

Attn: Rafael Carmona

Project Name: HCRMA TOLLWAY 365

Reference: Sheet 1181 & 1181A

Questions:

Page 1181 & 1181A calls out for existing 18" irrigation, existing there is a 30" line. Also, please advise on the size of stand pipe to install due to the line being 30 and proposed stand pipe calls out for 36.

Attachments: 2 Attachement

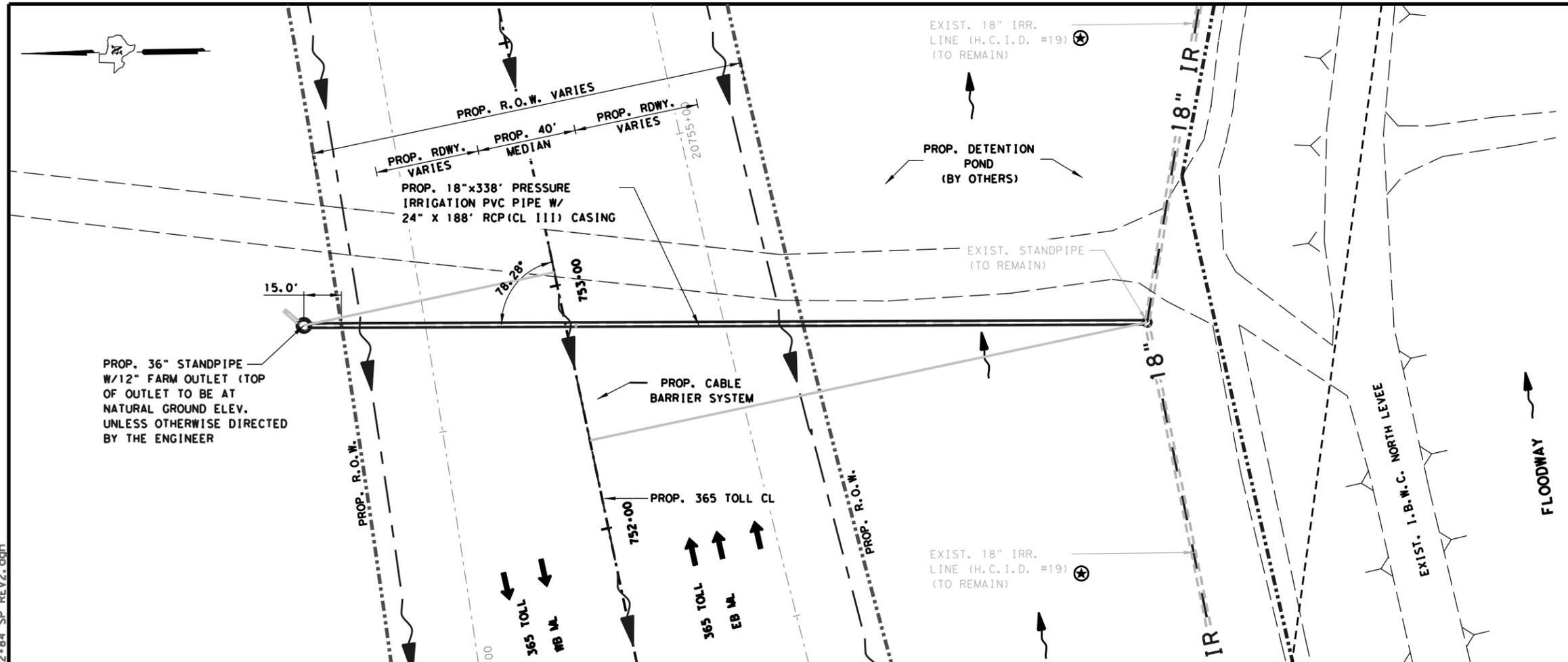
Requested By: Julian A. Cortez Date: 6/8/2023

Response:

Attachements: _____

Response by: _____ Date: _____

DATE: 6/26/2023 11:13:58 AM
 FILE: c:\projectwise\dannenbaum-hcrma\workdir\steve.peik\dms34009\SH365_Irr_Sta 752+84 SP REV2.dgn



SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCTURE EXCAVATION	CY	600
400	STRUCTURE EXCAVATION (SPL)	CY	54
400	SAND BACKFILL	CY	82
408	TRENCH EXCAVATION PROTECTION	LF	344
4035	RCP (CL-III) CASING (24")	LF	188
4269	PRESSURE IRR. PVC PIPE (18")	LF	324
4269	IRRIGATION WEL (36")	EA	1
4269	IRRIGATION VALVE (12")	EA	1

- LEGEND:**
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION OR HIGHER AS THE EXISTING STANDPIPE
 - ▣ SEE REMOVAL LAYOUTS SHEETS FOR DETAILS AND PAYMENT

- ⊖ ROCK FILTER DAM TY 2
 T.O.S. - TOP OF STRUCTURE
- NOTES:**
1. THE CONTRACTOR WILL COORDINATE WITH H.C.W.C. & I.D. NO.19 48 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES. CONTACT THE GENERAL MANAGER AT (956)618-9405.
 2. PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S). CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
 3. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
 4. ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. DURING CUT & RESTORE OPERATIONS, CONTRACTOR SHALL UTILIZE ADEQUATE TRAFFIC CONTROL MEASURES INCLUDING A FLAG PERSON. SEE TCP LAYOUTS FOR CONSTRUCTION PHASING.

REVISED: 06/26/2023



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY RAMIRO GUTIERREZ, P.E. No. 65948 DATE: 06/16/2017



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 208 McALLEN, TX 78504 (956) 682-3677

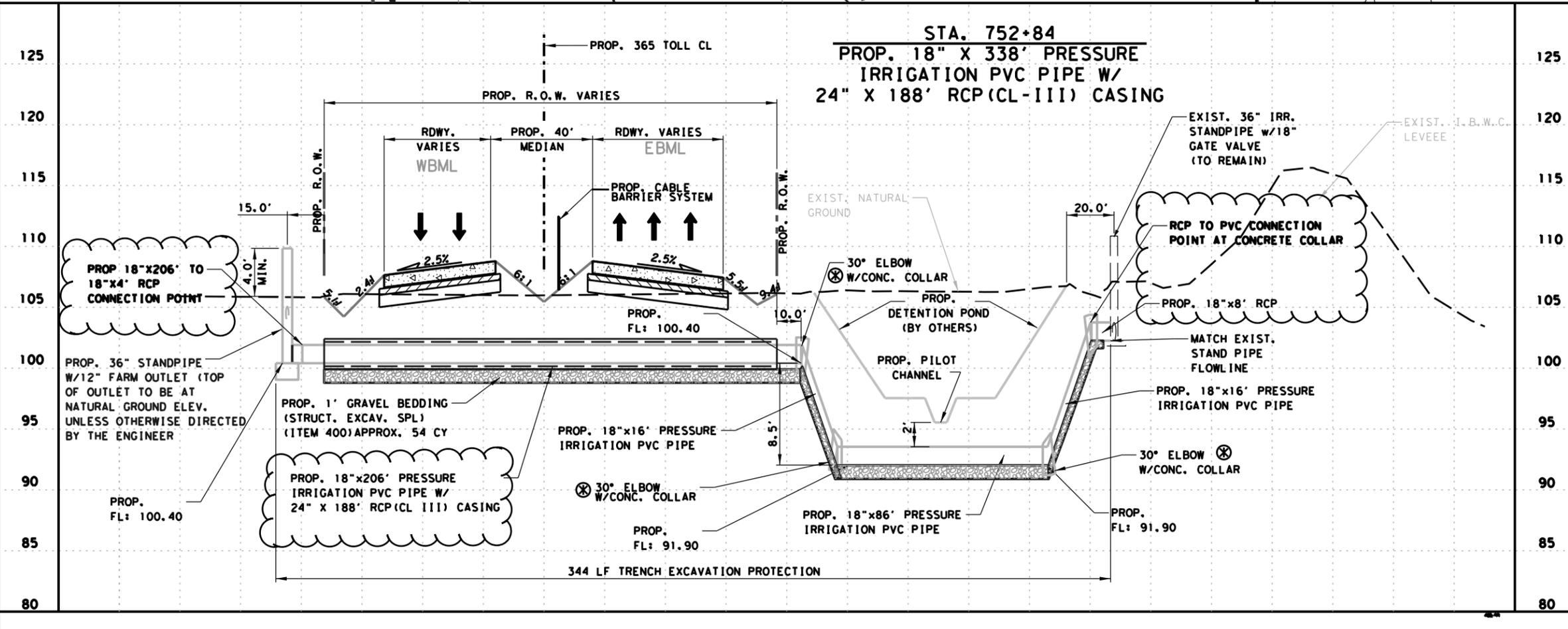
R. Gutierrez Professional Engineers & Land Surveyors
 130 E. PARK AVENUE • PHARR, TEXAS 78877
 (TEL) 956 782-2557 • (FAX) 956 782-2558
 FIRM No. 486

365 TOLL IRRIGATION CROSSING STA. 752+84

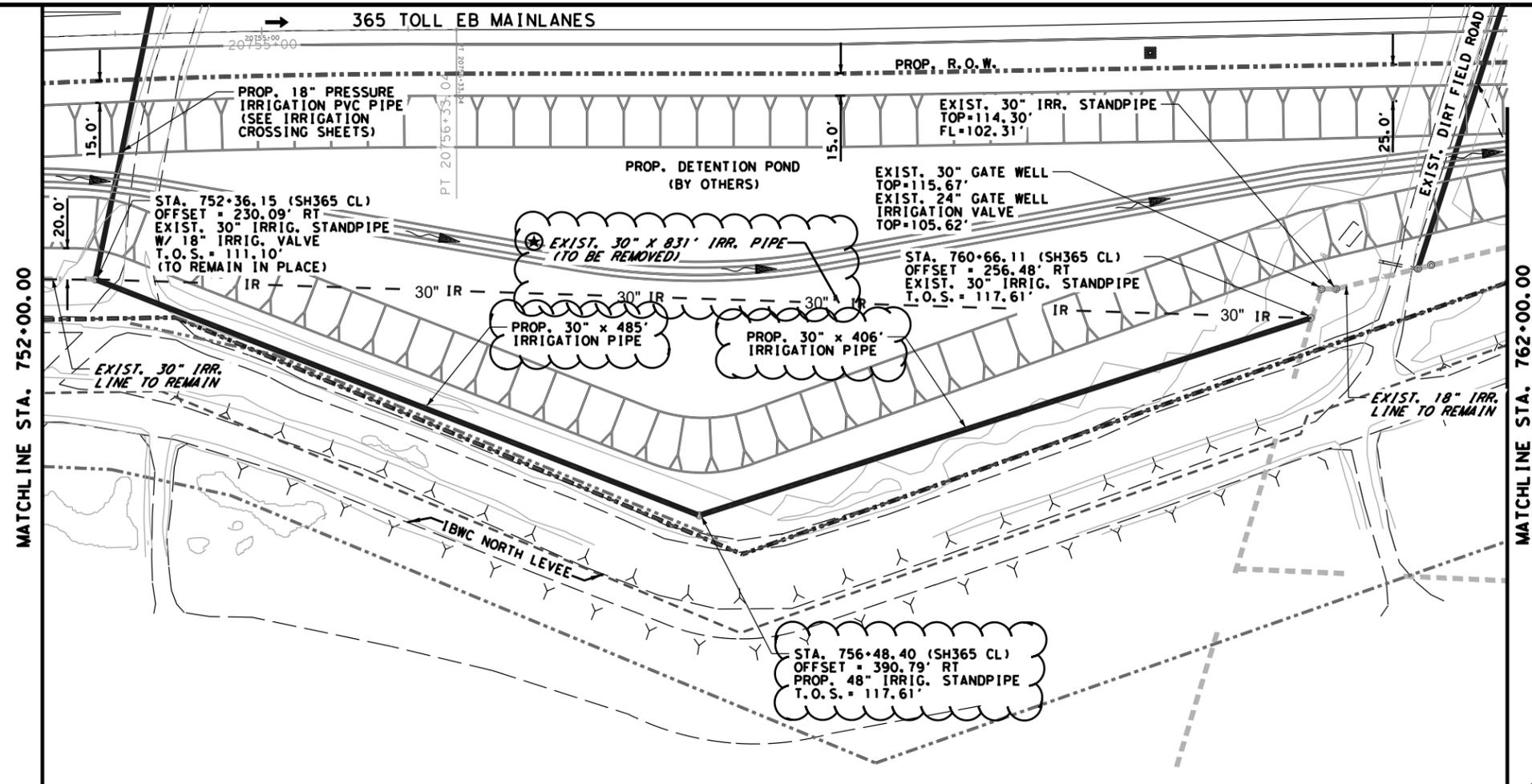
SCALE:
 HOR: 1" = 50'
 VER: 1" = 10'

SHEET 7 OF 17

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	1181	



DATE: 6/20/2023 1:54:05 PM
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SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCTURE EXCAVATION (NON-PAY)	CY	460
400	STRUCTURE EXCAVATION (SPL)	CY	70
400	SAND BACKFILL	CY	300
402	TRENCH EXCAVATION PROTECTION	LF	891
496	REMOV STRY (PIPE)	LF	831
1007	IRRIGATION WELL (48")	EA	1
4024	RCLHPP (CL111) (30")	LF	891

- LEGEND:**
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION OR HIGHER AS THE EXISTING STANDPIPE
 - SEE REMOVAL LAYOUTS SHEETS FOR DETAILS AND PAYMENT

- ⊕ ROCK FILTER DAM TY 2
- T.O.S. - TOP OF STRUCTURE
- NOTES:**
1. THE CONTRACTOR WILL COORDINATE WITH H.C.W.C. & I.D. NO.19 48 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES. CONTACT THE GENERAL MANAGER AT (956)618-9405.
 2. PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S). CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
 3. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
 4. ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 5. DURING CUT & RESTORE OPERATIONS, CONTRACTOR SHALL UTILIZE ADEQUATE TRAFFIC CONTROL MEASURES INCLUDING A FLAG PERSON. SEE TCP LAYOUTS FOR CONSTRUCTION PHASING.

REVISED DATE: 09/24/2021

REVISED DATE: 06/22/2023



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 208 McALLEN, TX 78504 (956) 682-9677

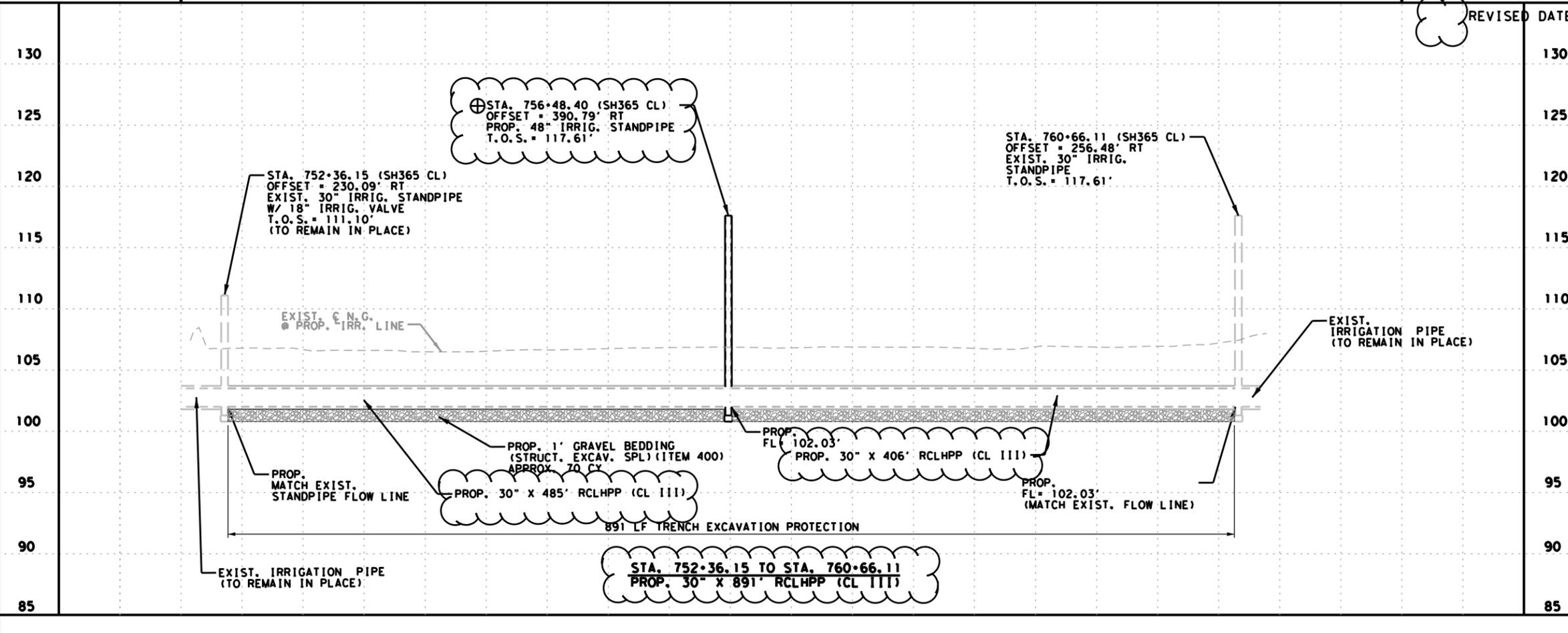
L & G Engineering
 Highway / Civil
 Structural / Bridge
 Environmental
 Firm No.: F-4105
 2100 W. Expressway 83
 Mercedes, TX 78757
 Phone: (956) 565-9813
 Fax: (956) 565-9818
 900 S. Stewart Rd., Ste. 10
 Mission, TX 79702
 Phone: (956) 585-1909
 Fax: (956) 585-1927

365 TOLL IRRIGATION CROSSING
 STA. 752+36.15 TO STA. 760+66.11

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 7A OF 17

CONTRACT NO.	0921 02	JOB NO.	368	HIGHWAY	365 TOLL
DISTRICT	PHR	COUNTY	HIDALGO	SHEET NO.	1181A



INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.

CHANGE ORDER PROPOSAL

PULICE

RE: Project: CSJ 0039-02-063 – Change Order TCP Jackson and Cage

SCOPE: The scope of this change is to adjust TCP items per the response to RFI 130.

CHANGE JUSTIFICATION: Per the response to RFI 82, the Portable CTB shown on sheets 202 and 205 should

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED: RFI 85

CHANGE TO CONTRACT PRICE: We're requesting additional compensation for these changes as detailed

Item	Description	Unit	Unit Price	Current Qty	CO Qty	Revised Qty	CO Amount
512 6001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	\$77.37	334.00	1,166.00	1,500.00	\$ 90,213.42
545 6001	CRASH CUSH ATTN (INSTL)	EA	\$37,228.22	7.00	4.00	11.00	\$ 148,912.88

\$ 239,126.30

CHANGE TO CONTRACT TIME: No additional time requested with this work.

Pulice Construction, Inc. • 10100 West Sam Houston Parkway South, Suite 300, Houston TX, 77099
8505 Freeport Parkway, Suite 250, Irving, TX 75063 • www.pulice.com





REQUEST FOR INFORMATION

No. HCRMA 365.RFI.130

TITLE: CTB Item & Crash Cushion Clarification used on Jackson & Cage **DATE:** 11/15/2023
PULICE PROJECT: 62-016-HCRMA 365 TOLL **RESPONSE REQUIRED BY:** 11/22/2023
OWNER PROJECT: CSJ: 0921-02-368

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

WORK IMPACT: YES NO **SCHEDULE IMPACT:** YES NO **COST IMPACT:** YES NO

REQUEST: Please advise if we can use Item 512-6001 (CTB SGL SLOPE TY 1) instead of CTB TY 2 for specified areas on sheets 202 & 205. In addition, what type of crash cushion will be used at cage (Sheet 205)? Is it the same REACT 350 (Sheet 653)?. Thanks.

REF. DRAWINGS: 202,205,653

REQUESTED BY: Luis Escalera

DATE: 11/15/2023

ANSWER: Please see red-lined sheet for response.

RECEIVED

By Ramon Navarro IV, P.E. at 4:01 pm, Nov 15, 2023

ANSWER SIGNED BY: _____

DATE: 12/5/2023

- CC:** Sergio Mandujano - HCRMA
Ronald Reyes -HCRMA
Rafael Carmona - Pulice
Jose Rivera - Pulice
Thomas Rodriguez - Pulice
Paola Morales - Pulice
Luis Salinas - Pulice

SHEET SUMMARY

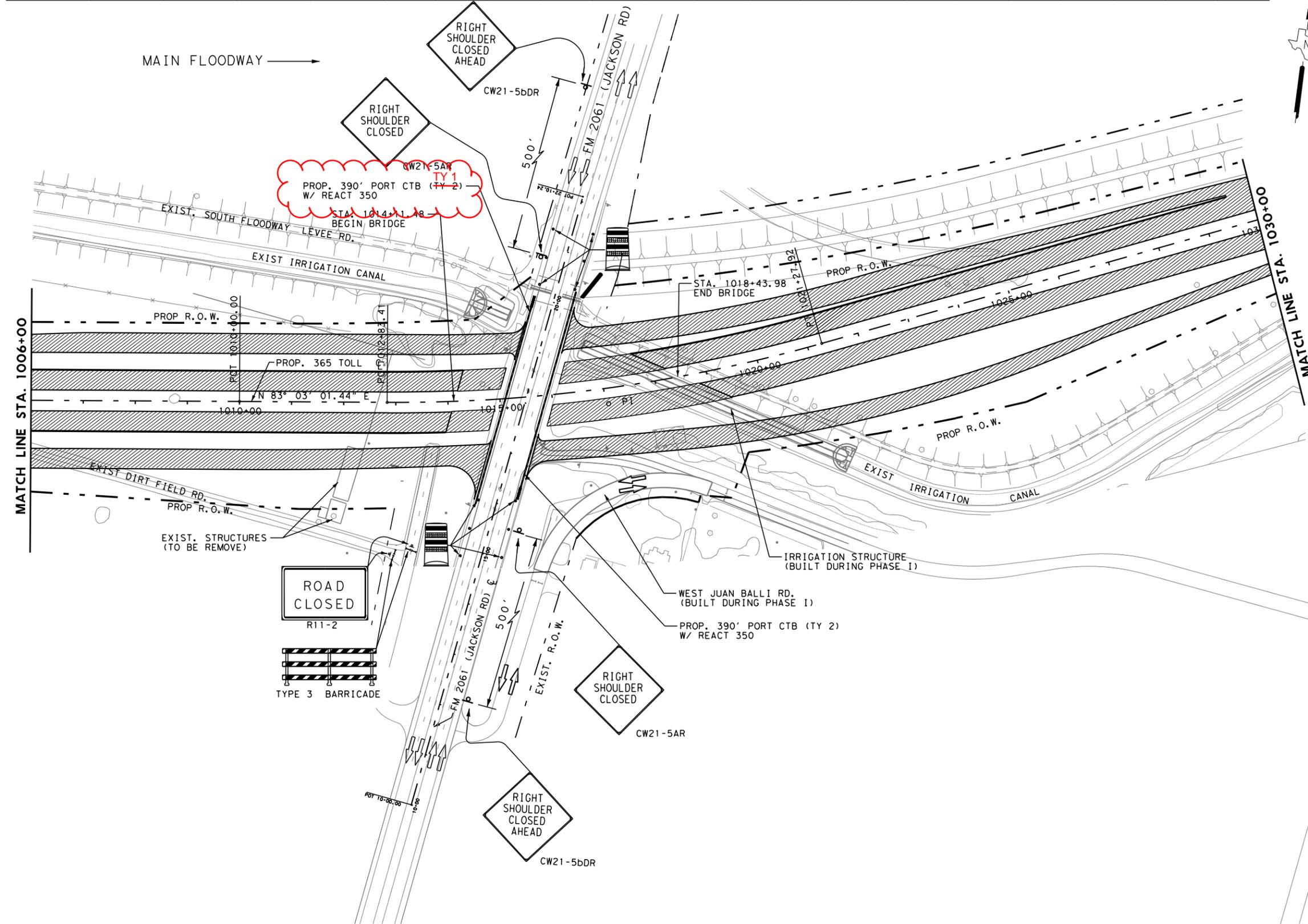
STATION LIMITS LOCATION	ITEM 508 CONSTRUCTING DETOURS (STA)	ITEM 512 PORT CTB (FUR & INST) (SNGL SLP) (TY 2) 1 (LF)	ITEM 512 PORT CTB (MOVE) (SNGL SLP) (TY 2) (LF)	ITEM 512 PORT CTB (REMOVE) (SNGL SLP) (TY 2) 1 (LF)	PAVEMENT MARKINGS (ITEM 662)								ITEM 677					
					NON-REMOVABLE				REMOVABLE				ELIMINATING EXISTING PAVEMENT MARKINGS					
					4" WHITE SOLID (LF)	8" WHITE SOLID (LF)	24" WHITE SOLID (LF)	WORD (EA)	ARROW (EA)	4" YELLOW SOLID (LF)	4" YELLOW BROKEN (LF)	4" WHITE (DOT) (LF)	4" WHITE SOLID (LF)	4" YELLOW (DOT) (LF)	4" YELLOW SOLID (LF)	4" PAV' MT MARKINGS (LF)	8" PAV' MT MARKINGS (LF)	12" PAV' MT MARKINGS (LF)
FM 2061 (JACKSON RD)		780		780														
TOTAL		780		780														

LEGEND	
	CONSTRUCTION PHASE
	WORK ZONE PVMT MARK (NON-REM) 4" WHITE SOLID
	WORK ZONE PVMT MARK (NON-REM) 4" YELLOW SOLID
	WORK ZONE PVMT MARK (NON-REM) 4" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMT MARKER SPACED AT EVERY 40'
	WORK ZONE PVMT MARK (REM) 4" WHITE SOLID
	WORK ZONE PVMT MARK (REM) WHITE 4" (DOT)
	WORK ZONE PVMT MARK (REM) 4" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMT MARKER SPACED AT EVERY 40'
	WORK ZONE PVMT MARK (REM) 4" YELLOW (DOT)
	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
	WORK ZONE PVMT MARK (NON-REM) 8" WHITE SOLID
	WORK ZONE PVMT MARK (REM) 8" WHITE (DOT)
	WORK ZONE PVMT MARK (NON-REM) 4" WHITE BROKEN W/ TWO TY I-C PAVMT MARKER SPACED AT EVERY 40'
	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
	CHANNELIZING DEVICE
	CONSTRUCTION SIGN

NOTE: CONTRACTOR SHALL USE AN EXPERIENCE FLAGGER WHENEVER WORK INVOLVES PUBLIC ROAD TRAFFIC.

NOTES:

- REFER TO TYPICAL SECTIONS FOR SIDE SLOPES. THE CONTRACTOR WILL SHOULDER UP DAILY.
- FOR CHANNELIZING DEVICE SPACING AND TAPER LENGTHS, SEE PHASE II DETOUR LAYOUTS AS PER BC (9) - 14 STANDARDS.
- FOR SIGN SPACING, SEE BC (2) - 14.



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PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION #392
1109 NOLANA LOOP, STE 200 McALLEN, TX 78504 (361) 582-3677



S&B INFRASTRUCTURE, LTD.
TEXAS BOARD OF PROFESSIONAL ENGINEERS # F-1582

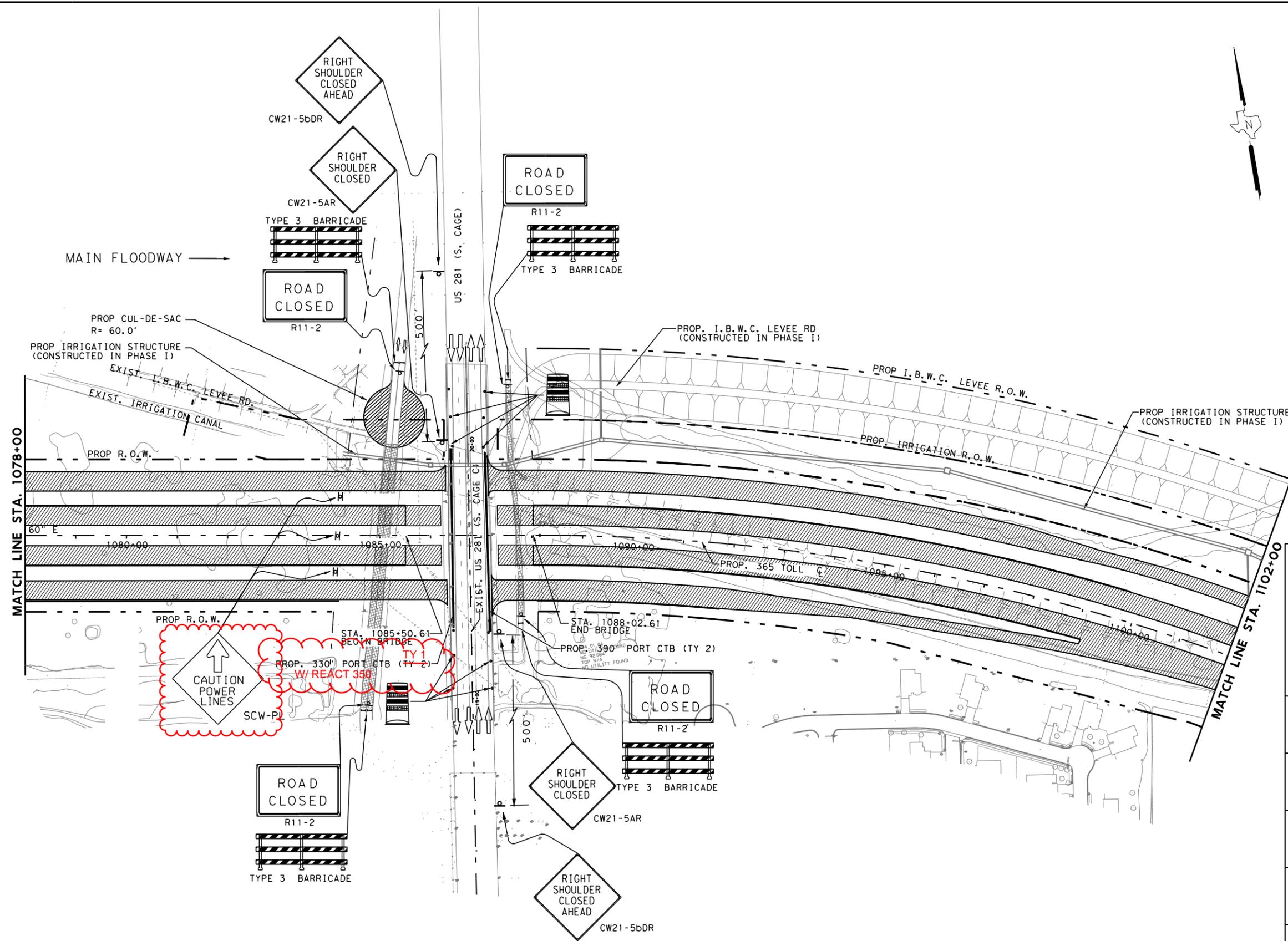
365 TOLL PHASE II-STAGE 1
TRAFFIC CONTROL PLAN
LAYOUT SHEETS
STA. 1006+00 TO STA. 1030+00

SCALE: HOR: 1" = 100'
VERT: 1" = 400'

SHEET 11 OF 23

DN:	CONT	SECT	JOB	HIGHWAY
CK DN:	0921	02	368	365 TOLL
DR:	DIST	COUNTY	SHEET NO.	
CK DR:	PHR	HIDALGO	202	

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LEGEND	
	CONSTRUCTION PHASE
	WORK ZONE PVMT MARK (NON-REM) 4" WHITE SOLID
	WORK ZONE PVMT MARK (NON-REM) 4" YELLOW SOLID
	WORK ZONE PVMT MARK (NON-REM) 4" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMT MARKER SPACED AT EVERY 40'
	WORK ZONE PVMT MARK (REM) 4" WHITE SOLID
	WORK ZONE PVMT MARK (REM) WHITE 4" (DOT)
	WORK ZONE PVMT MARK (REM) 4" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMT MARKER SPACED AT EVERY 40'
	WORK ZONE PVMT MARK (REM) 4" YELLOW (DOT)
	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
	WORK ZONE PVMT MARK (NON-REM) 8" WHITE SOLID
	WORK ZONE PVMT MARK (REM) 8" WHITE (DOT)
	WORK ZONE PVMT MARK (NON-REM) 4" WHITE BROKEN W/ TWO TY I-C PAVMT MARKER SPACED AT EVERY 40'
	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
	CHANNELIZING DEVICE
	CONSTRUCTION SIGN

NOTE: CONTRACTOR SHALL USE AN EXPERIENCE FLAGGER WHENEVER WORK INVOLVES PUBLIC ROAD TRAFFIC.

- NOTES:**
- REFER TO TYPICAL SECTIONS FOR SIDE SLOPES. THE CONTRACTOR WILL SHOULDER UP DAILY.
 - FOR CHANNELIZING DEVICE SPACING AND TAPER LENGTHS, SEE PHASE II DETOUR LAYOUTS AS PER BC (9)-14 STANDARDS.
 - FOR SIGN SPACING, SEE BC (2)-14.



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 200 McALLEN, TX 78504 (361) 582-2677

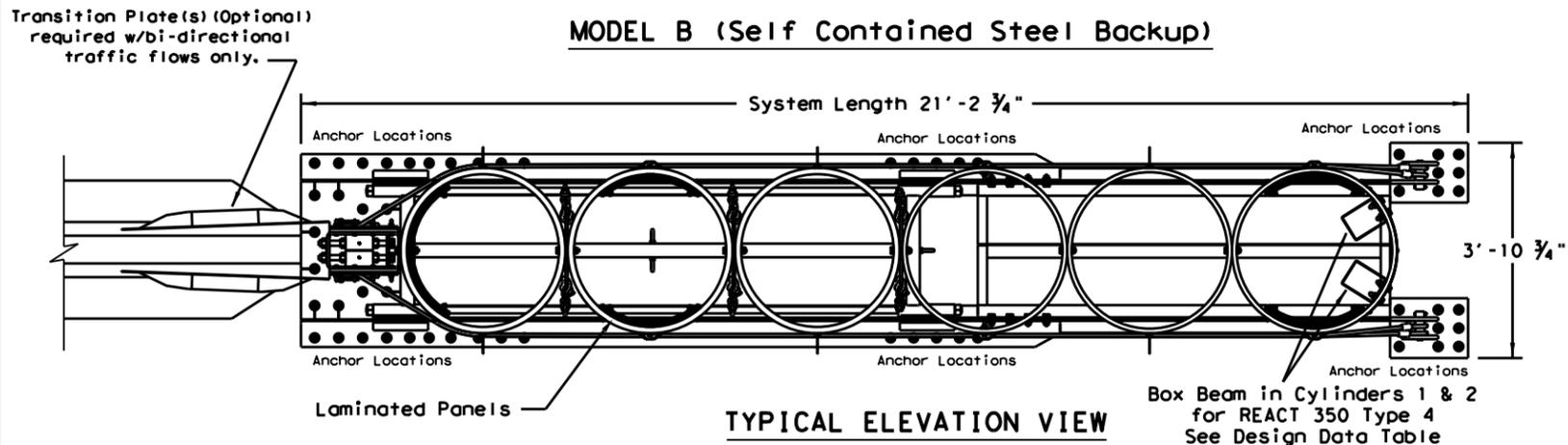


365 TOLL PHASE II-STAGE 1
TRAFFIC CONTROL PLAN
LAYOUT SHEETS
 STA. 1072+00 TO STA. 1102+00

SCALE: 1" = 200'		SHEET 14 OF 23	
DN:	CONT	SECT	JOB
CK DN:	0921	02	368
DR:	DIST		COUNTY
CK DR:	PHR		HIDALGO
TR:	SHEET NO.		205
CK TR:	HIGHWAY		365 TOLL

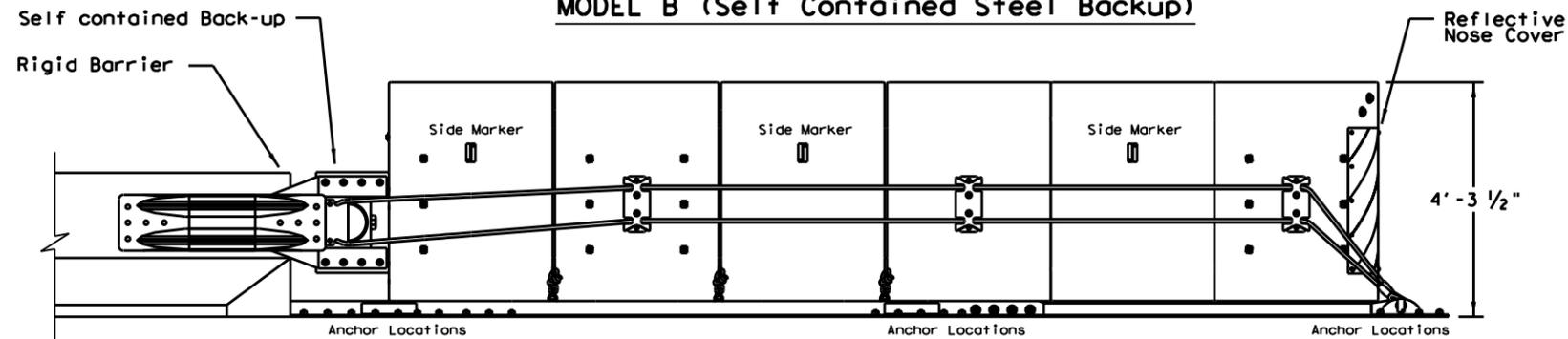
TYPICAL PLAN VIEW

MODEL B (Self Contained Steel Backup)



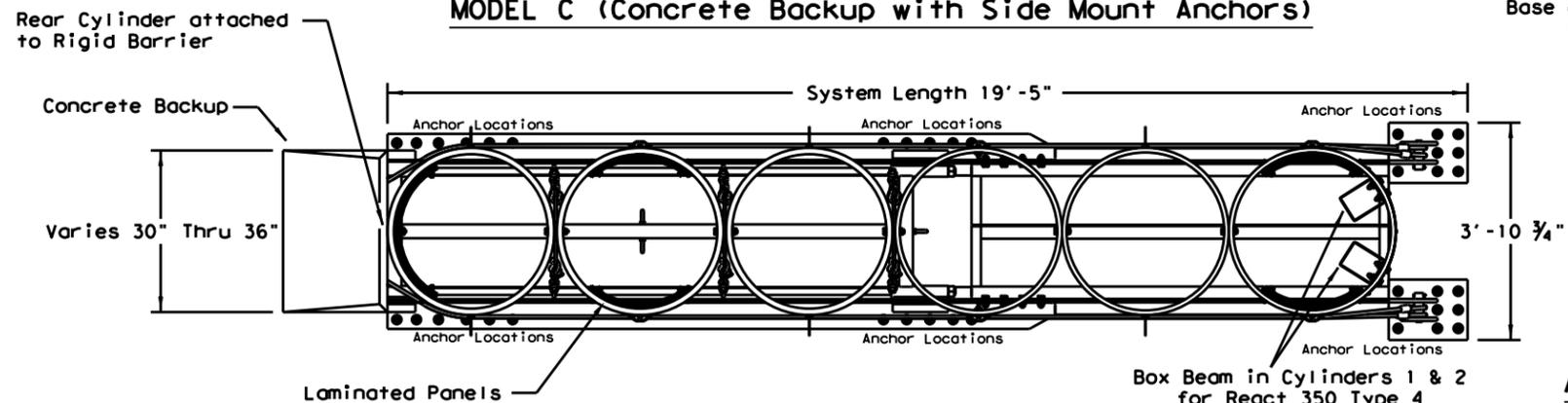
TYPICAL ELEVATION VIEW

MODEL B (Self Contained Steel Backup)



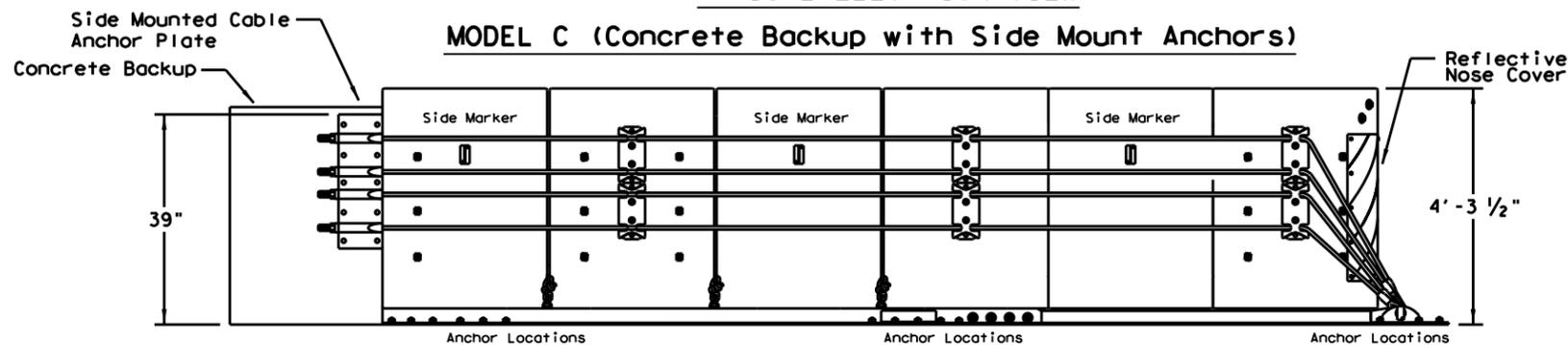
TYPICAL PLAN VIEW

MODEL C (Concrete Backup with Side Mount Anchors)



TYPICAL ELEVATION VIEW

MODEL C (Concrete Backup with Side Mount Anchors)

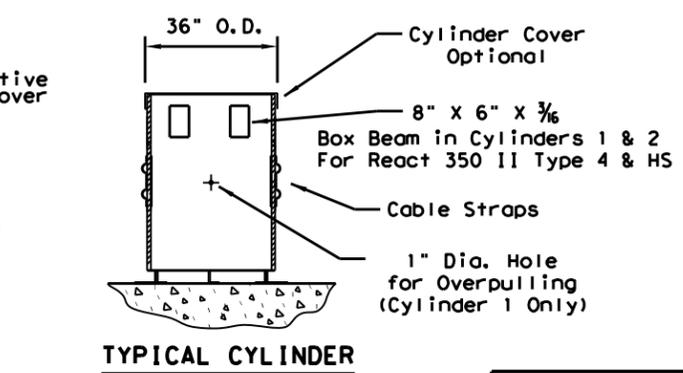
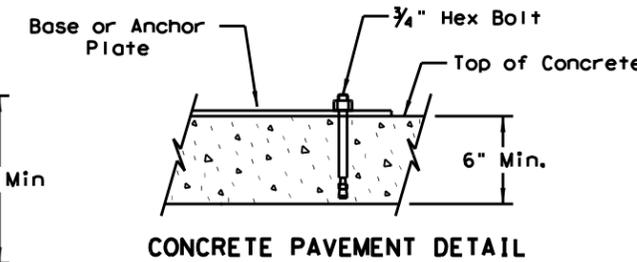
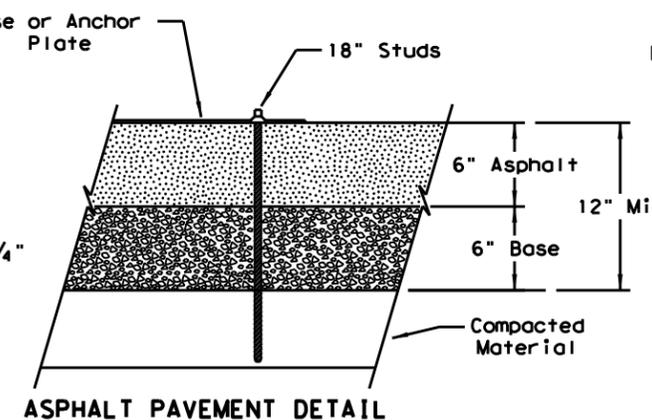


GENERAL NOTES

1. For specific information regarding installation and technical guidance of the system, contact: Trinity Highway - Energy Absorption at 1(888)323-6374, 70 W. Madison St. Suite 2350, Chicago, IL 60602
2. The nose of the REACT 350 shall be clad with a plastic wrap with standard delineation adhered to the wrap and shall have a series of side marker reflectors on both sides of the unit. See site plan views for marker and plastic wrap color orientation.
3. All steel components to be hot dipped galvanized except stakes, drive spikes, threaded bolts in backup unit, and wedge fittings on cables.
4. The installation area should be free from curbs, elevated objects, or depressions. If the REACT system is to span expansion joints contact the manufacturer.
5. The REACT system should be approximately parallel with the barrier or $\frac{1}{2}$ of merging barriers. The maximum permissible cross-slope is 8%.
6. REACT 350 II has laminated panels in cylinders 1, 5, & 6.

TYPE	REACT 350 4-B	REACT 350 4-C	REACT 350 II 6-B	REACT 350 II 6-C
Test Level	TL-2	TL-2	TL-3	TL-3
OVERALL LENGTH	15'-3"	13'-9"	21'-3"	19'-5"

FOUNDATION TYPE	MINIMUM THICKNESS	ANCHORAGE
A CONCRETE PAD OR ROADWAY	6"	MP-3 WITH 7" STUDS [5.5" EMBEDMENT]
B ASPHALT OVER CONCRETE PAVEMENT	6" CONCRETE PAVEMENT	ANCHOR LENGTH REQUIRED IS 7" STUD PLUS ASPHALT THICKNESS
C ASPHALT OVER BASE	6" ACP + 6" BASE	MP-3 WITH 18" STUDS [16.5" EMBEDMENT]
D ASPHALT ONLY	8"	MP-3 WITH 18" STUDS [16.5" EMBEDMENT]



DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of any other formats or for incorrect results or damages resulting from its use.
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Texas Department of Transportation		Design Division Standard	
TRINITY HIGHWAY ENERGY ABSORPTION (REACT 350 NARROW) (REACT 350 II NARROW) REACT (N) - 16			
FILE: reactn16.dgn	DN: TxDOT	CK: KM	DN: VP
© TxDOT February 1998	CONT	SECT	JOB
REVISIONS	0921	02	368
REVISED 06, 2013 (VP)	DIST	COUNTY	SHEET NO.
REVISED 03, 2016 (VP)	PHR	HIDALGO	653

LOW MAINTENANCE

INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 11

1. CONTRACTOR: PULICE CONSTRUCTION INC.

2. Change Order Work Limits: Sta. 986+07 to Sta. _____

3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

[2G] DIFFERING SITE CONDITION
This change adjusts items per driveway revisions on McColl Rd. The proposed NW driveways were revised to provide better access for the local businesses and to add end treatment components for safety purposes at driveway intersections.

CCSJ:	<u>0921-02-368</u>
Project:	<u>DMO2013(420)</u>
Highway:	<u>365 Tollway</u>
County:	<u>Hidalgo</u>
District:	<u>PHARR</u>
Contract Number:	_____

5. New or revised plan sheet(s) are attached and numbered: 596A, 596B, 596C, 596D

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: _____ Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$23,450.97</u></p>
	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	

RECOMMENDED FOR EXECUTION:

Ramon Navarro IV / Construction Engineer 07/08/24
Name/Title _____ Date _____

07/08/24
Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

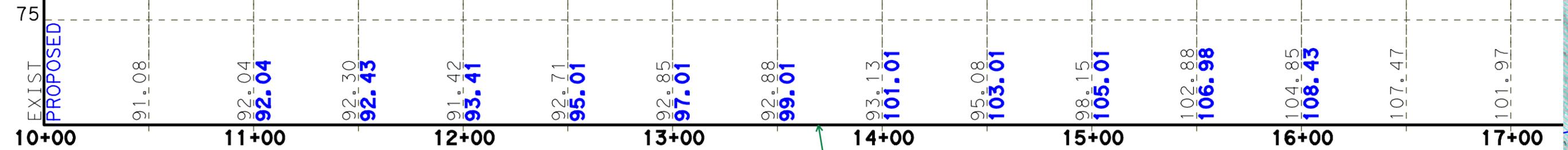
Name/Title _____ Date _____
 APPROVED REQUEST APPROVAL

Name/Title _____ Date _____

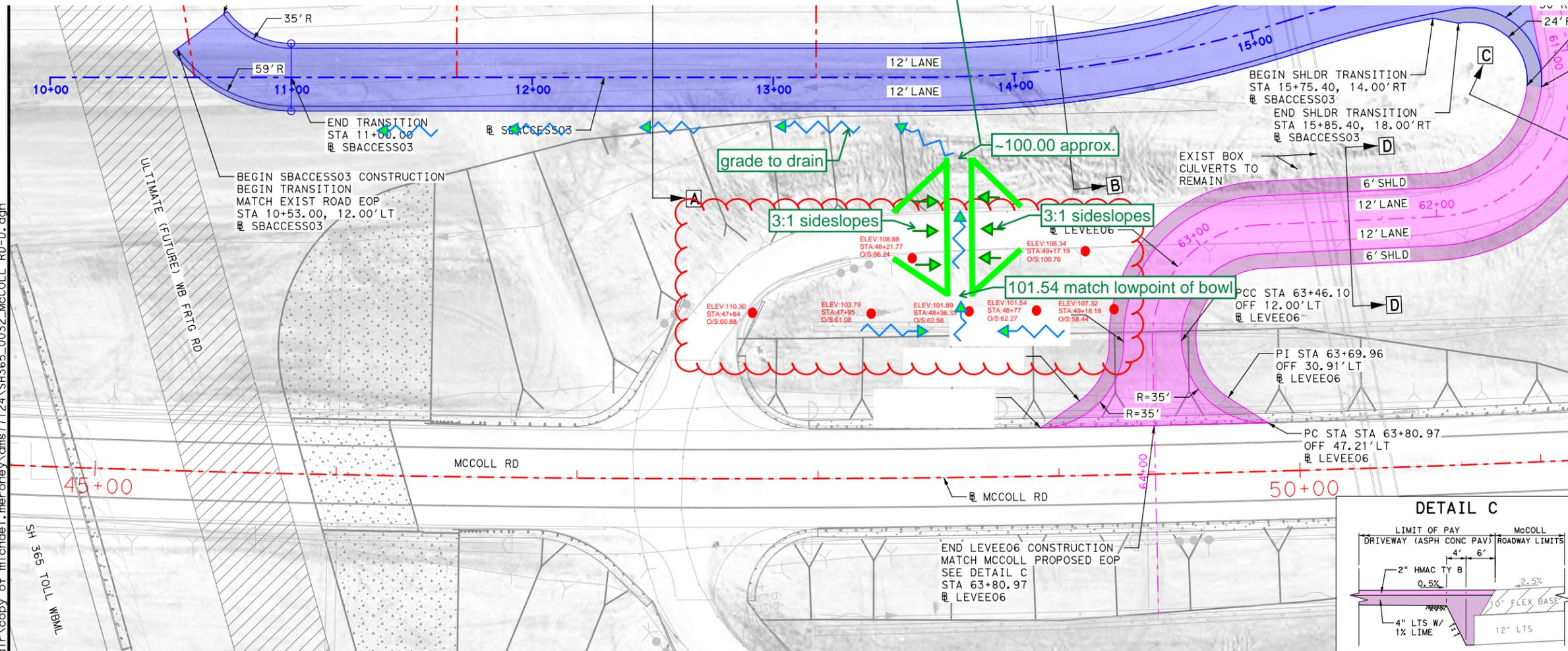
Name/Title _____ Date _____
 APPROVED

Engineer's Seal:

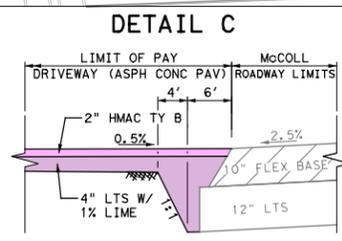
NOTE:
 PLAN DESIGN AND ESTIMATED QUANTITIES SHOWN ARE PER
 SURVEY INFORMATION PROVIDED BY THE CONTRACTOR.



SBACCESS03 PROPOSED PROFILE



ESTIMATED QUANTITIES						
I. D.	110	132	260	310	340	530
	6001	6006	-	6009	-	6005
SBACCESS	45	3192	1794	359	359	1656
LEVEE06	40	351	1358	272	272	1151
TOTAL	85	3543	3152	631	631	2807



STATE OF TEXAS
 MARC H. SORIANO
 128318
 LICENSED PROFESSIONAL ENGINEER
 11/01/2023



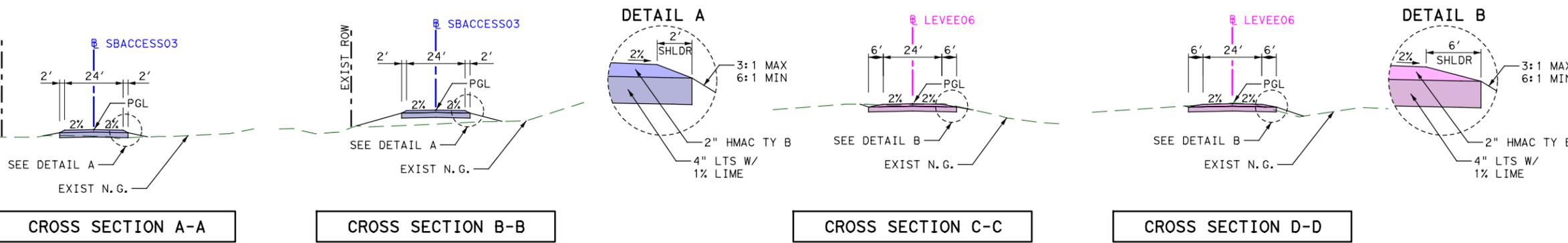
HDR Engineering, Inc.
 FIRM REGISTRATION No. 754

365 TOLL
 BUSINESS ACCESS RD PLAN
 AT MCCOLL RD
 SBACCESS03 & LEVEE06

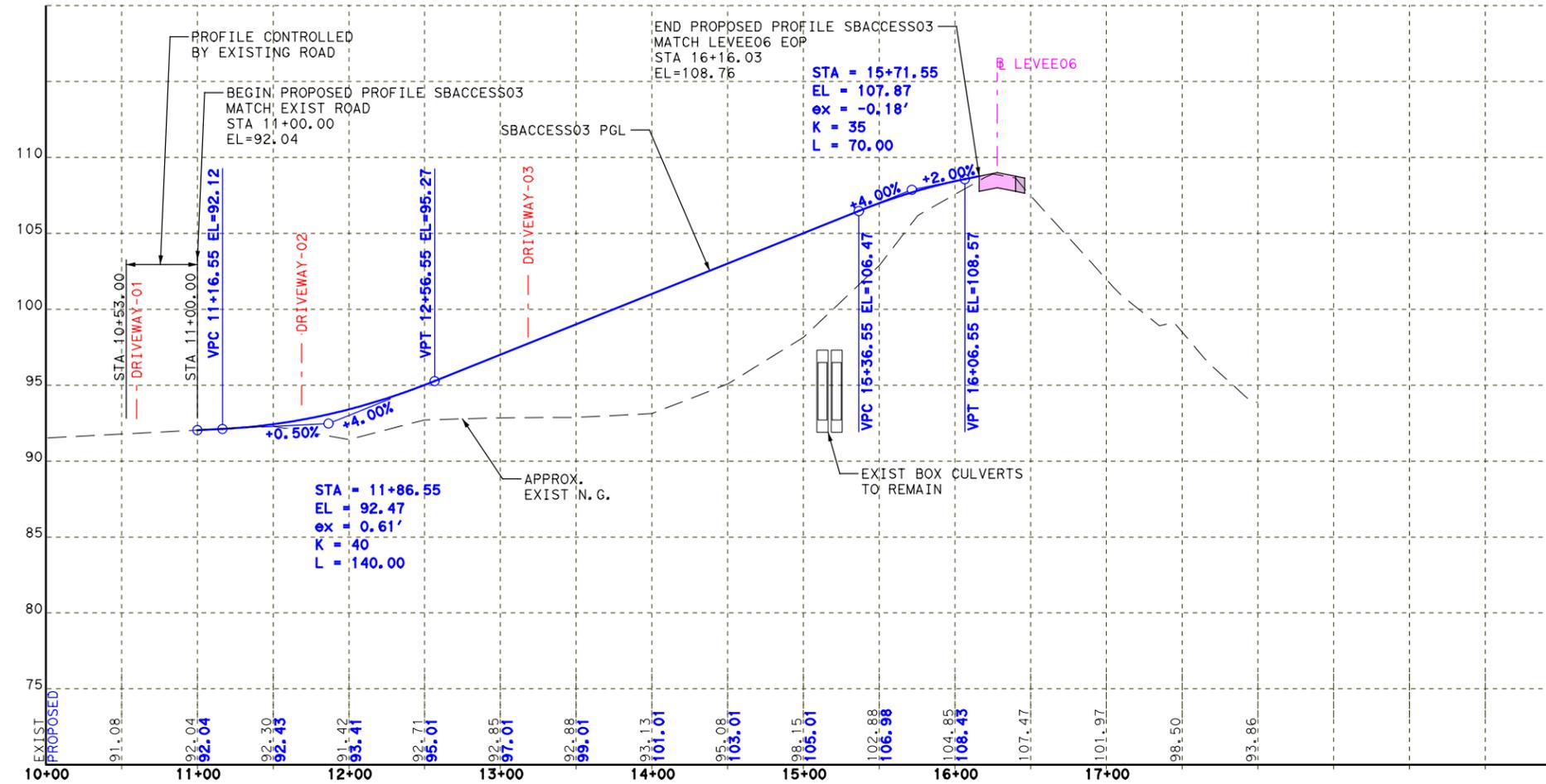
SCALE: 1" = 50' SHEET OF

REV:	DATE:	EOR:	CONT	SECT	JOB	HIGHWAY
			0921	02	368	365 TOLL
					COUNTY	SHEET NO.
			PHR		HIDALGO	

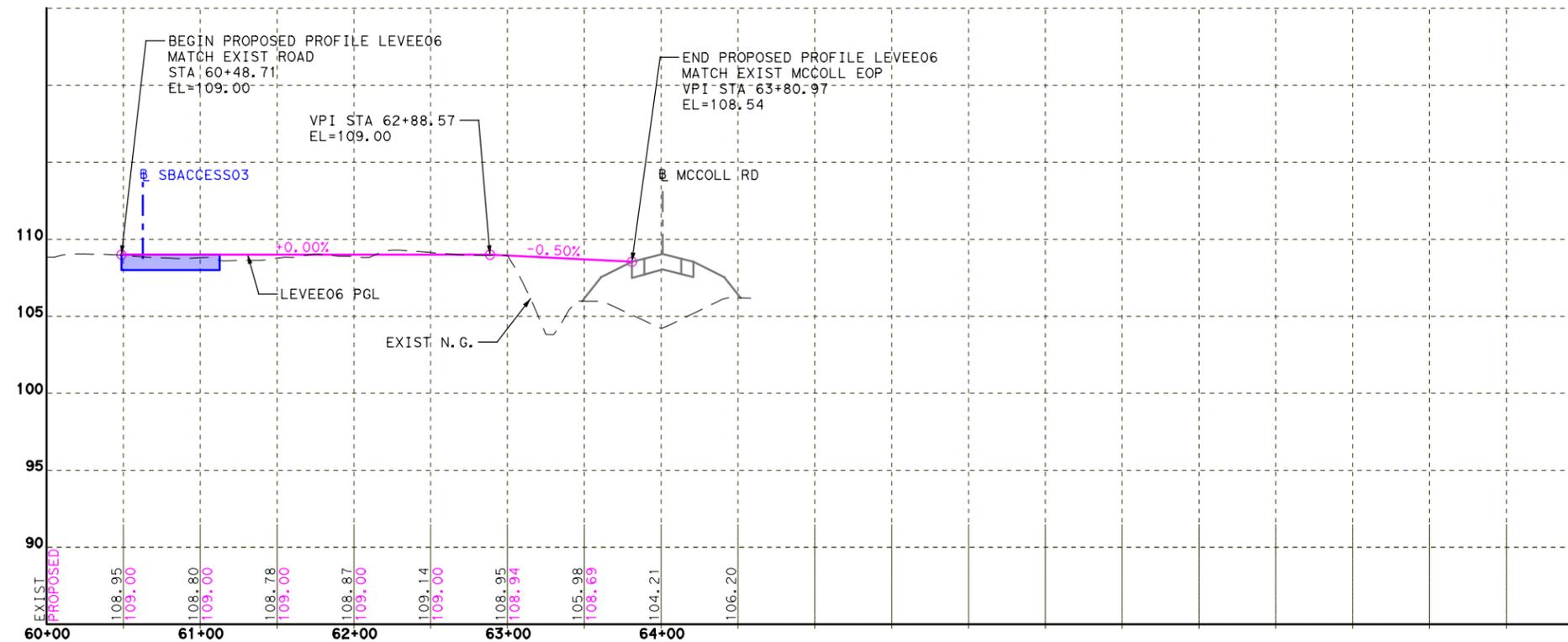
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SBACCESS03 PROPOSED PROFILE



LEVEE06 PROPOSED PROFILE



11/01/2023



HDR HDR Engineering, Inc.
 FIRM REGISTRATION No. 754

365 TOLL
BUSINESS ACCESS RD PROFILES
AT MCCOLL RD

SCALE: 1" = 100' SHEET OF

REV:	DATE:	EOR:	CONT	SECT	JOB	HIGHWAY
			0921	02	368	365 TOLL
			DIST		COUNTY	SHEET NO.
			PHR		HIDALGO	

Beginning chain SBACCESS03 description

Point SBACCESS03001 X 1,075,057.720912 Y16,576,819.098484 Sta 10+00.00
 Course from SBACCESS03001 to PC SBACCESS03-1 N 8° 39' 46.77" E Dist 362.006160

Curve Data

Curve SBACCESS03-1
 P.I. Station = 14+39.67 X 1,075,123.944815 Y 16,577,253.751137
 Delta = 17° 39' 28.20" (LT)
 Degree = 11° 27' 32.96"
 Tangent = 77.662504
 Length = 154.093667
 Radius = 500.000000
 External = 5.995518
 Long Chord = 153.484569
 Mid. Ord. = 5.924478
 P.C. Station = 13+62.01 X 1,075,112.247111 Y 16,577,176.974655
 P.T. Station = 15+16.10 X 1,075,111.802628 Y 16,577,330.458580
 C.C. = X 1,074,617.951419 Y 16,577,252.285802
 Back = N 8° 39' 46.77" E
 Ahead = N 8° 59' 41.43" W
 Chord Bear = N 0° 09' 57.33" W

Curve Data

Curve SBACCESS03-2
 P.I. Station = 15+45.78 X 1,075,107.161646 Y 16,577,359.777668
 Delta = 6° 47' 42.45" (RT)
 Degree = 11° 27' 32.96"
 Tangent = 29.684131
 Length = 59.298660
 Radius = 500.000001
 External = 0.880373
 Long Chord = 59.263913
 Mid. Ord. = 0.878825
 P.C. Station = 15+16.10 X 1,075,111.802628 Y 16,577,330.458580
 P.T. Station = 15+75.40 X 1,075,106.022284 Y 16,577,389.439925
 C.C. = X 1,075,605.653838 Y 16,577,408.631358
 Back = N 8° 59' 41.43" W
 Ahead = N 2° 11' 58.98" W
 Chord Bear = N 5° 35' 50.21" W

Course from PT SBACCESS03-2 to SBACCESS03002 N 2° 11' 58.98" W Dist 224.601540

Point SBACCESS03002 X 1,075,097.401433 Y16,577,613.875958 Sta 18+00.00

Ending chain SBACCESS03 description

Beginning chain LEVEE06 description

Point LEVEE06006 X 1,075,041.338091 Y16,577,439.625205 Sta 60+00.00
 Course from LEVEE06006 to PC LEVEE061 N 87° 48' 01.02" E Dist 100.261027

Curve Data

Curve LEVEE061
 P.I. Station = 61+67.21 X 1,075,208.421889 Y 16,577,446.043089
 Delta = 98° 11' 26.31" (RT)
 Degree = 98° 47' 08.98"
 Tangent = 66.945985
 Length = 99.397501
 Radius = 58.000000
 External = 30.576322
 Long Chord = 87.672800
 Mid. Ord. = 20.021453
 P.C. Station = 61+00.26 X 1,075,141.525236 Y 16,577,443.473511
 P.T. Station = 61+99.66 X 1,075,201.434672 Y 16,577,379.462734
 C.C. = X 1,075,143.751442 Y 16,577,385.516250
 Back = N 87° 48' 01.02" E
 Ahead = S 5° 59' 27.34" W
 Chord Bear = S 43° 06' 15.82" E

Course from PT LEVEE061 to PC LEVEE062 S 5° 59' 27.34" W Dist 73.509883

Curve Data

Curve LEVEE062
 P.I. Station = 63+19.02 X 1,075,188.976777 Y 16,577,260.752956
 Delta = 88° 34' 58.93" (LT)
 Degree = 121° 54' 21.29"
 Tangent = 45.851796
 Length = 72.665084
 Radius = 47.000000
 External = 18.661155
 Long Chord = 65.641076
 Mid. Ord. = 13.357582
 P.C. Station = 62+73.17 X 1,075,193.762374 Y 16,577,306.354330
 P.T. Station = 63+45.83 X 1,075,234.445867 Y 16,577,254.841184
 C.C. = X 1,075,240.505680 Y 16,577,301.448894
 Back = S 5° 59' 27.34" W
 Ahead = S 82° 35' 31.59" E
 Chord Bear = S 38° 18' 02.13" E

Course from PT LEVEE062 to LEVEE06007 S 82° 35' 31.59" E Dist 112.612992

Point LEVEE06007 X 1,075,346.118925 Y16,577,240.321744 Sta 64+58.45

Ending chain LEVEE06 description

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365 TOLL
 BUSINESS ACCESS RD PLAN
 AT MCCOLL RD
 HORIZONTAL ALIGNMENT DATA

SCALE: 1" = 100'			SHEET OF			
REV:	DATE:	EOR:	CONT	SECT	JOB	HIGHWAY
			0921	02	368	365 TOLL
			DIST	COUNTY	SHEET NO.	
			PHR	HIDALGO		

INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 12

1. CONTRACTOR: PULICE CONSTRUCTION INC.
2. Change Order Work Limits: Sta. 1087+93 to Sta. _____
3. Type of Change (on federal-aid non-exempt projects): Major (Major/Minor)
4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

[1E] DESIGN ERROR RESULTING IN INEFFICIENCIES
 The scope of this change is to add and adjust items related to the 12" AND 18" waterline relocations. Items for crossing at STA. 1087+93 were accounted in plans but not placed on estimate. 12" waterline at STA, 1232+71 has been omitted.

CCSJ: 0921-02-368

Project: DMO2013(420)

Highway: 365 Tollway

County: Hidalgo

District: PHARR

Contract Number: _____

5. New or revised plan sheet(s) are attached and numbered: 1227R;

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: _____ Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$135,487.78</u></p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>

RECOMMENDED FOR EXECUTION:

Ramon Navarro IV / Construction Engineer 07/08/24

Name/Title Date

Name/Title Date

APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date

APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date

APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date

APPROVED

Engineer's Seal:

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 12

Estimated Cost: \$135,487.78

CCSJ: 0921-02-368

Paid by Invoice? (Yes No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

TABLE B: Contract Items

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	ITEM COST	
0476-6019	JACK BOR 24" STL CASING	LF	1,657.72	100.00	165,772.00	0.00	0.00	- 165,772.00
0476-6023	JACK BOR OR TUN PIPE(30 IN)(STL	LF	1,540.80	0.00	0.00	200.00	308,160.00	308,160.00
5002-6005	12" PVC WTR LN DR18 C900	LF	80.00	440.00	35,200.00	0.00	0.00	- 35,200.00
5002-9004	WTR MAIN PIPE (PVC)(18IN)(C900)	LF	140.00	308.00	43,120.00	360.00	50,400.00	7,280.00
5002-9005	12IN 45DEG MJ BENDS	ea	1,250.00	7.00	8,750.00	0.00	0.00	- 8,750.00
5002-9006	18IN 45DEG MJ BENDS	EA	4,961.63	0.00	0.00	6.00	29,769.78	29,769.78
TOTALS						252,842.00	388,329.78	135,487.78

CHANGE ORDER PROPOSAL

PULICE

RE: Project: CSJ 0039-02-063 – Proposal Waterline at Cage

SCOPE: The scope of this change is to add and adjust items related to the 18” waterline relocation at

CHANGE JUSTIFICATION: Per Sheet 1227, the 18” waterline relocation at Sta. 1087+93 (Cage)

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED: Sheet 1227

CHANGE TO CONTRACT PRICE: We’re requesting additional compensation for these changes as

Item	Description	Unit	Unit Price	Original Qty	CO Qty	Rev Qty	CO Amount
0476-6018	JACK BOR OR TUN PIPE(30 IN)(STL CASING)	LF	\$ 1,540.80	0.00	300.00	300.00	\$ 306,160.00
5002-9004	WATER MAIN PIPE (PVC)(18IN) (DR18)(C90 0)	LF	\$ 140.00	308.00	52.00	360.00	\$ 7,280.00
5002-9006	18 IN 45 DEG MJ BENDS	EA	\$ 4,961.63	0.00	6.00	6.00	\$ 29,769.78
							\$ 345,209.78

CHANGE TO CONTRACT TIME: This additional work has the potential to delay the project. Pulice will

If you have any questions or need additional information, please contact me at (346) 324-0781.

Sincerely,

Rafael Carmona

Pulice Construction, Inc. • 10100 West Sam Houston Parkway South, Suite 300, Houston TX, 77099

8505 Freeport Parkway, Suite 250, Irving, TX 75063 • www.pulice.com






REQUEST FOR INFORMATION

No. HCRMA 365.RFI.095

TITLE: Water line relocation STA.1087+93 Bid Items discrepancy
PULICE PROJECT: 62-016-HCRMA 365 TOLL
OWNER PROJECT: CSJ: 0921-02-368

DATE: 8/22/2023
RESPONSE REQUIRED BY: 8/29/2023

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

WORK IMPACT: YES NO **SCHEDULE IMPACT:** YES NO **COST IMPACT:** YES NO

REQUEST: On Sheet No.1227, there is a couple bid items that are not in the contract. Please find attached sheet demonstrating which items are not shown in the estimate tables or contract. Since the abutment was pushed back per the VECF changes, the existing water line will no longer be in conflict with the abutment drill shafts, but it would still be in conflict with the proposed 72" irrigation line. Find below marked up sheet demonstrating the revised abutment location and proposed solution. Please provide direction on how to proceed. Thank you.

REF. DRAWINGS: 1227

REQUESTED BY: Luis Salinas

DATE: 8/22/2023

ANSWER: Sheet 1227 has been updated. Quantities on sheet 1227 are to be used and not E+Q sheet.

ANSWER SIGNED BY: _____

DATE: _____

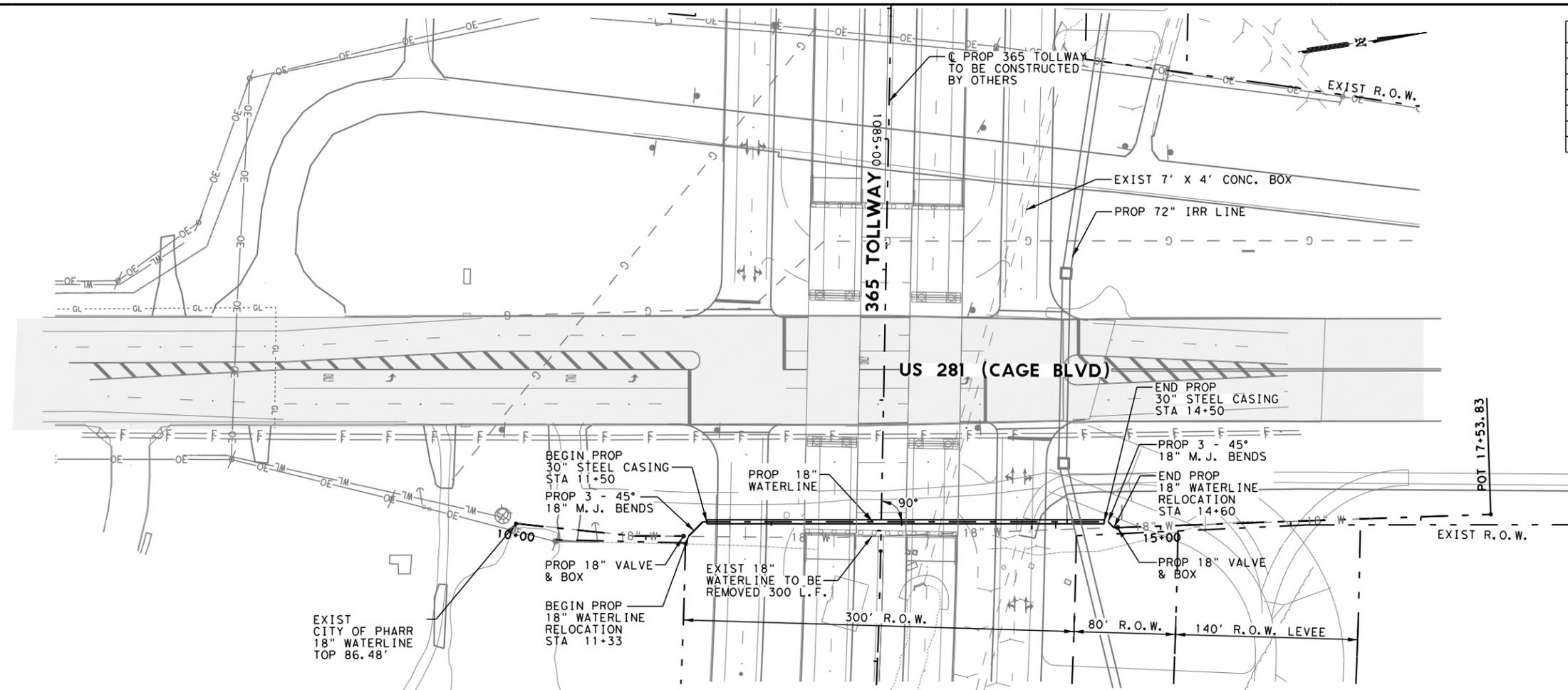
- CC:** Sergio Mandujano - HCRMA
- Ronald Reyes -HCRMA
- Rafael Carmona - Pulice
- Jose Rivera - Pulice
- Thomas Rodriguez - Pulice
- Paola Morales - Pulice
- Luis Escalera - Pulice

SHEET SUMMARY

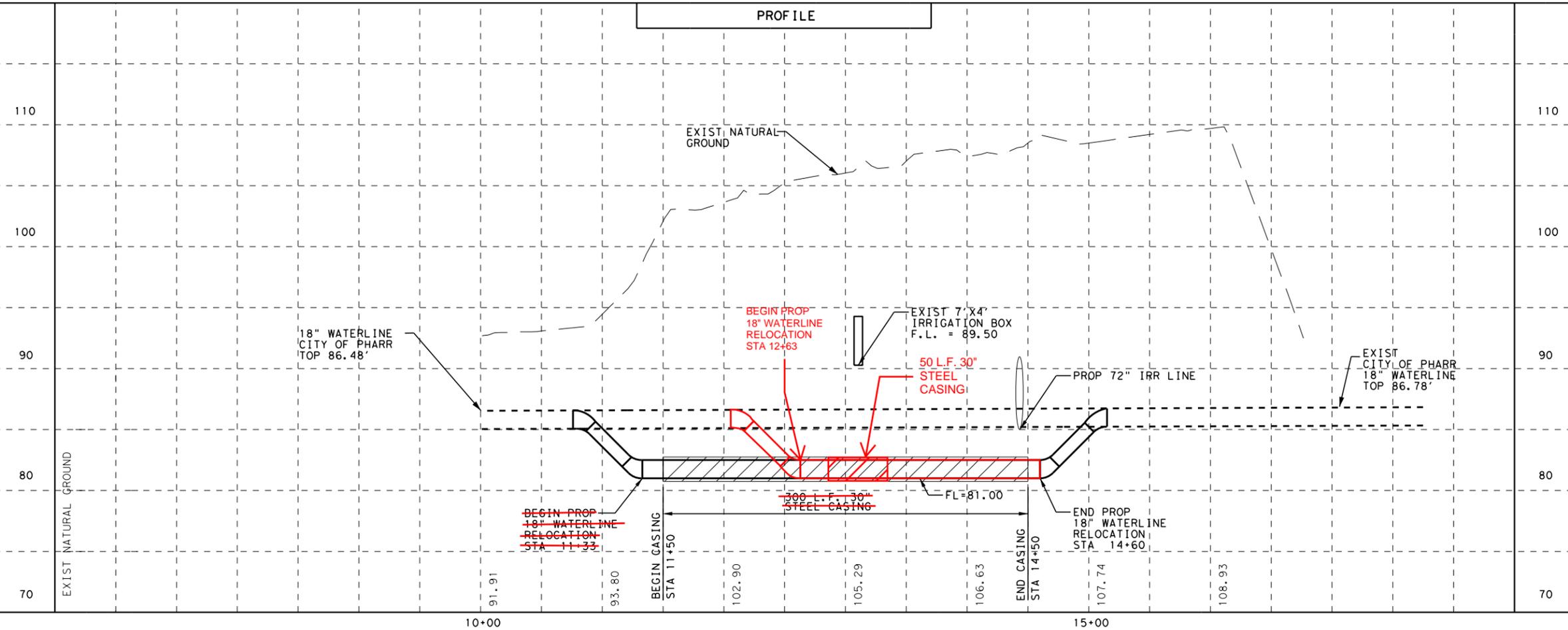
ITEM	DESCRIPTION	UNIT	QTY
402	TRENCH EXCAVATION PROTECTION	LF	300
5002	18" VALVE AND BOX	EA	2
5002	18" PVC WATERLINE DR 18 C900	LF	360
476	JACK BORE 30" STEEL CASING	LF	300 50
5002	18" 45° MJ BEND	EA	6
496	REMOVE STR PIPE	LF	300

LEGEND

- C OF ALIGNMENT
- - - R.O.W.
- EDGE OF ROAD/PAVEMENT
- WL — WATERLINE
- EXIST CLOSED BOARDED FENCE
- SS — EXIST SANITARY SEWER LINE
- GL --- EXIST GAS LINE
- UT --- EXIST UNDERGROUND TELEPHONE LINE
- FM --- EXIST FORCE MAIN LINE
- F — EXIST FIBER OPTIC LINE
- OE — EXIST OVERHEAD ELECTRICAL LINE
- ⊙ EXIST FIRE HYDRANT
- ⊙ EXIST SIGN
- ⊙ EXIST GUY WIRE
- ⊙ EXIST UTILITY POLE



PROFILE



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 200 McALLEN, TX 78504 (356) 682-3677



365 TOLL
 CAGE BLVD (US 281)
 18" WATERLINE
 RELOCATION
 STA. 1087+93

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 1 OF 1

DN:	CON:	SECT:	JOB:	HIGHWAY:
CK DN:	0921	02	368	365 TOLL
TR:	DIST:	COUNTY:	SHEET NO.	
CK TR:	PHR	HIDALGO	1227	

9/25/2017 11:31:59 AM c:\projects\wise\dannenbaum-hcrma\workdir\enr\ique_flores\dms28700\2421P&P02.dgn

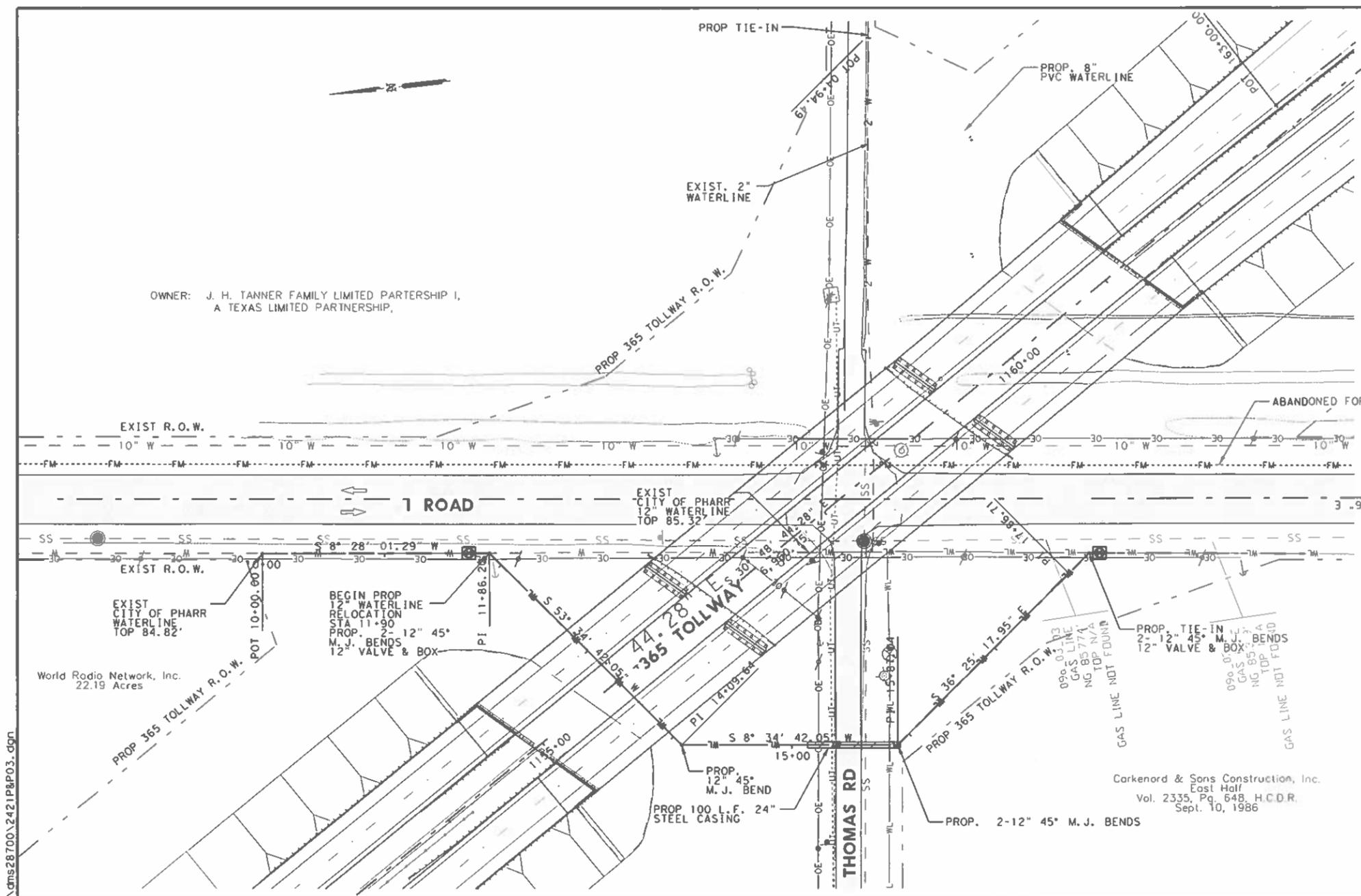
SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QTY
476	JACK BORE 24" STEEL CASING	LF	100
5002	12" PVC WATERLINE DR 18 C900	LF	440
402	TRENCH EXCAVATION PROTECTION	LF	300
5002	12" 45° M.J. BENDS	EA	7

#165,772
 #25,200
 #510
 #8750
 (#20,232)
 WATERLINE
 TO CITY ON PLACE

LEGEND

- €— OF ALIGNMENT
- - - R.O.W.
- — — EDGE OF ROAD/PAVEMENT
- WL— WATERLINE
- — — EXIST CLOSED BOARDED FENCE
- SS— EXIST SANITARY SEWER LINE
- GL— EXIST GAS LINE
- UT— EXIST UNDERGROUND TELEPHONE LINE
- FM— EXIST FORCE MAIN LINE
- F— EXIST FIBER OPTIC LINE
- OE— EXIST OVERHEAD ELECTRICAL LINE
- ⊙ EXIST FIRE HYDRANT
- ⊕ EXIST SIGN
- ⊙ EXIST GUY WIRE
- ⊙ EXIST UTILITY POLE



OWNER: J. H. TANNER FAMILY LIMITED PARTERSHIP I,
 A TEXAS LIMITED PARTERSHIP,

World Radio Network, Inc.
 22.19 Acres

Carkenord & Sons Construction, Inc.
 East Half
 Vol. 2335, Pg. 648, H.C.D.R.
 Sept. 10, 1986

PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
 ENGINEERING CORPORATION
 T.B.P.E. FIRM REGISTRATION #392
 1109 NOLANA LOOP, STE 208 MCALLEN, TX 78544 (956) 887-3877

365 TOLL
 "I" RD/THOMAS RD
 12" WATERLINE
 RELOCATION
 STA. 1232+71

SCALE:
 HOR: 1" = 100'
 VER: 1" = 10'

SHEET 1 OF 1

CONTRACT	0921	SECTION	02	JOB	368	HIGHWAY	365 TOLL
DISTRICT	PHR	COUNTY	HIDALGO	SHEET NO.	1228		

6/19/2017 7:29:29 PM
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INSTRUCTIONS FOR PREPARING THE CHANGE ORDER (Local Agency)

The following information is provided to assist you in preparing the Change Order (CO).

- 1 Insert the Contractor's name as it appears in the contract.
- 2 Insert the work limits for the Change Order.
- 3 Indicate if a change is major or minor.
- 4 Give a narrative of the revised work being authorized in the change order.

If the CO affects pedestrian elements, state in the narrative that a copy of this CO must be sent to the Field Coordination Section of the Design Division.

Address time by one of the following methods:

- 1) Add the time extension number and time in the box provided.
- 2) State in the narrative that no time is added by this CO.
- 3) State in the narrative that time will be addressed later in the project when the time impact of the change order is better known.

Methods 1 and 2 are preferred. Method 3 should not be a normal practice. If time can not be agreed on with the contractor upon execution of a CO, method 3 is acceptable. In this case, time associated with this CO will be non-participating until the time justification is provided.

- 5 Attach any new/revised plan sheet(s).
- 6 For TxDOT use only. The TxDOT representative must designate if this change order is participating by providing a value for the days and amount participating. If the change order is non-participating, enter a zero "0" in the fields.
- 7 Direct the contractor to sign in the contractor's signature block.
- 8 Affix the seal of the authorized local representative in the space located at the left corner of the bottom of the CO Form. Adhere to Change Order Approval Policy of local agency.



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 13

1. CONTRACTOR: PULICE CONSTRUCTION INC.

2. Change Order Work Limits: Sta. THROUGH PROJECT to Sta. _____

3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

[1E] DESIGN ERROR RESULTING IN INEFFICIENCIES
ITS pole mounted cabinets (TY 2 CONF 2) to be installed, attached to the vertical mast of existing and proposed traffic signal poles. Installing ITS cabinets on traffic signal poles is not per TxDOT standard. Cabinets are to be installed as ground mounted to specifications.

CCSJ:	<u>0921-02-368</u>
Project:	<u>DMO2013(420)</u>
Highway:	<u>365 Tollway</u>
County:	<u>Hidalgo</u>
District:	<u>PHARR</u>
Contract Number:	_____

5. New or revised plan sheet(s) are attached and numbered: _____

Each signatory hereby warrants that each has the authority to execute this Change Order.

<p>By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.</p>	<p>The following information must be provided</p> <p>Time Ext. #: _____ Days added on this C.O.: <u>0</u></p> <p>Amt. added by this change order: <u>\$212,599.20</u></p>
	<p>For TxDOT use only:</p> <p>Days participating: _____</p> <p>Amount participating: _____</p> <p>Signature _____ Date _____</p> <p>Name/Title _____</p>
<p>THE CONTRACTOR _____ Date _____</p> <p>By _____</p> <p>Typed/Printed Name _____</p> <p>Typed/Printed Title _____</p>	

RECOMMENDED FOR EXECUTION:

Ramon Navarro IV / Construction Engineer 07/08/24
Name/Title Date

Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date
 APPROVED REQUEST APPROVAL

Name/Title Date

Name/Title Date
 APPROVED

Engineer's Seal:

CHANGE ORDER PROPOSAL

PULICE

RE: Project: CSJ 0039-02-063 – Proposal Ground Mounted Cabinets

SCOPE: The scope of this change is to add items related to the ground mounted cabinets

CHANGE JUSTIFICATION: There are 16 ITS pole mounted cabinets (TY 2 CONF 2) that

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED: RFI 90

CHANGE TO CONTRACT PRICE: We're requesting additional compensation for these

Description	Unit	Unit Price	Projected Qty	CO Qty	Revised Qty	CO Amount
ITS GRND MNT CAB (TY 4) (CONF)	EA	\$ 12,788.35	0.00	16.00	16.00	\$ 204,613.60
CONDT (PVC) (SCH 80)	LF	\$ 11.48	11,500.00	280.00	11,780.00	\$ 3,214.40
CONDT (PVC) (SCH 80) (2") (BORE)	LF	\$ 19.88	2,420.00	240.00	2,660.00	\$ 4,771.20
						\$ 212,599.20

(*) Considering less than 300 LF from the GM cabinet to the Dome CCTV. The price of the cabinet includes ethernet cable

CHANGE TO CONTRACT TIME: No additional time requested with this work.

If you have any questions or need additional information, please contact me at (346) 324-

Sincerely,

Rafael Car Pulice Construction, Inc. • 10100 West Sam Houston Parkway South, Suite 300, Houston TX, 77099
8505 Freeport Parkway, Suite 250, Irving, TX 75063 • www.pulice.com



REQUEST FOR INFORMATION

No. HCRMA 365.RFI.090

TITLE: Clarification of ITS Cabinets On Traffic Signal Poles
PULICE PROJECT: 62-016-HCRMA 365 TOLL
OWNER PROJECT: CSJ: 0921-02-368

DATE: 7/25/2023
RESPONSE REQUIRED BY: 8/1/2023

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

WORK IMPACT: [X] YES [] NO SCHEDULE IMPACT: [X] YES [] NO COST IMPACT: [X] YES [] NO

REQUEST: There are 16 ITS pole mounted cabinets that the plans call to be installed on the vertical mast of traffic signal poles. SICE would like to inquire if this is allowable per TXDOT spec. Please refer to SICE RFI for further information on which cabinets are being referred to. Can the HCRMA please look into this and let the contractor know if this will be allowable per spec? Thank you.

REF. DRAWINGS:

REQUESTED BY: Thomas Rodriguez

DATE: 7/25/2023

ANSWER: Contractor is to install a ground mounted cabinet in the surrounding of the current location of each TS pole. Any Type 2 cabinets already installed are to remain in place.

APPROVED

By Ramon Navarro IV, P.E. at 1:54 pm, Oct 20, 2023

ANSWER SIGNED BY:

DATE: 10/13/2023

- CC: Sergio Mandujano - HCRMA
Ronald Reyes -HCRMA
Rafael Carmona - Pulice
Jose Rivera - Pulice
Luis Salinas - Pulice
Paola Morales - Pulice
Luis Escalera - Pulice



SICE
INC.

SICE, Inc.

3610 Willowbend Blvd., Suite 1026, Houston, TX 77054
Phone: (305) 222-7040

REQUEST FOR INFORMATION

Project:	<u>365 TOLLWAY</u>	Date:	<u>7/25/23</u>
RFI No.:	<u>002</u>	Subject:	<u>Clarification about ITS cabinets in Traffic Signal Poles</u>

<p>RFI Description</p> <p>SICE realized that there are 16 ITS pole mounted cabinets (TY 2 CONF 2) that will be installed, attached to the vertical mast of different Traffic Signal Poles (brand new and existing).</p> <p>As per conversations with our Steel Manufacturer (Structural & Steel Products), they informed us that <i>“installing ITS cabinets on traffic signal poles is not per the TxDot standard”</i>.</p> <p>Please advise on how to proceed.</p>
<p>Reference documents</p> <p>Please see the attached table for reference</p>

<p>Response</p>

<p>Comments:</p>



SICE
INC.

SICE, Inc.

3610 Willowbend Blvd., Suite 1026, Houston, TX 77054
Phone: (305) 222-7040

Reference documents:

Locations with ITS cabinet installed attached to Traffic Signal Poles

ITS cabinets (pole mounted)

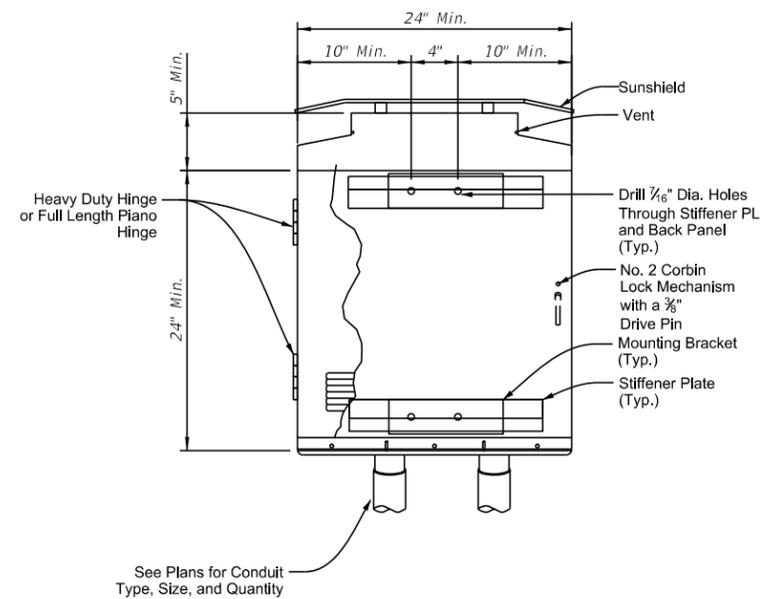
Anzalduas connector intersection ⁽¹⁾	2
Shary Rd. intersection ⁽¹⁾	2
23rd Rd. Intersection ⁽¹⁾	2
10th St. Intersection ⁽¹⁾	2
Jackson Rd. Intersection ⁽¹⁾	2
Cage Blvd. Intersection ⁽¹⁾	2
Dicker Rd. Intersection ⁽¹⁾	2
Military Hwy. Intersection ⁽²⁾	2

(1) Brand new traffic signal pole

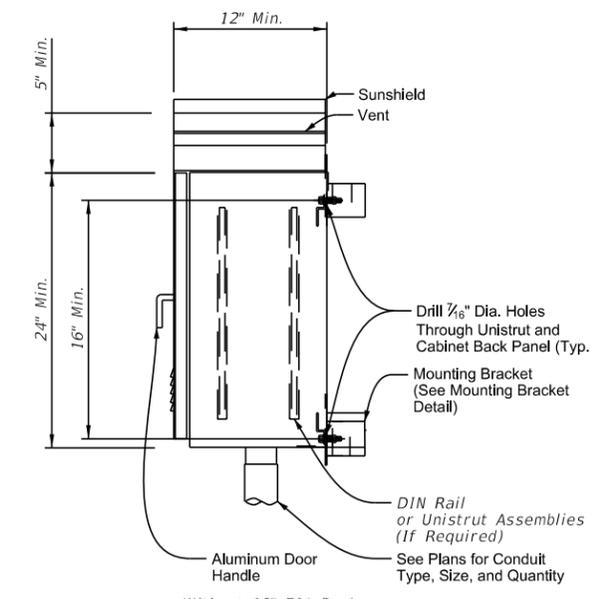
(2) Existing traffic signal pole

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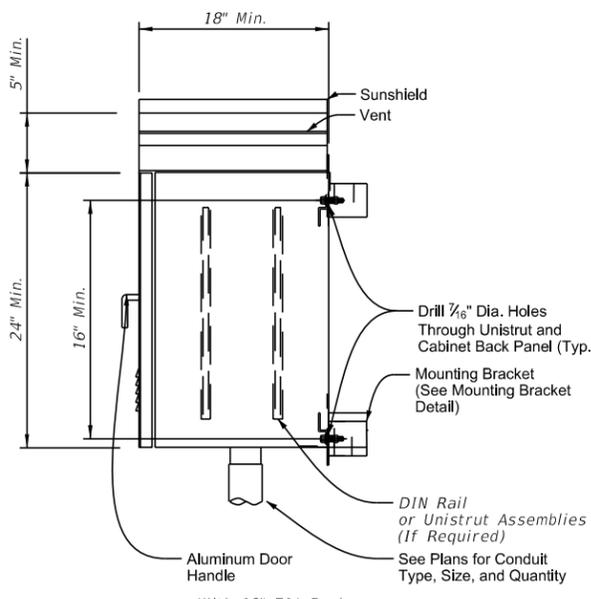
DATE: 7/19/2017 3:12:23 PM
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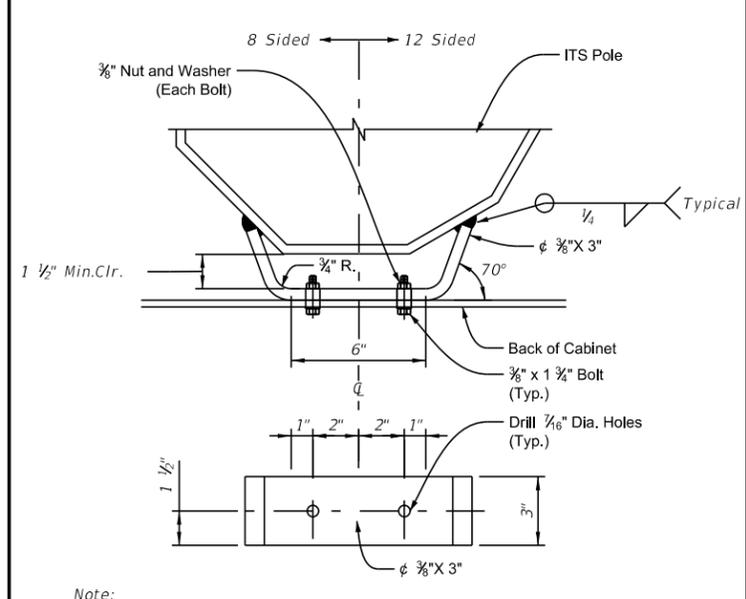
Pole Mounted Cabinet - Type 1 Front View
 Not to Scale



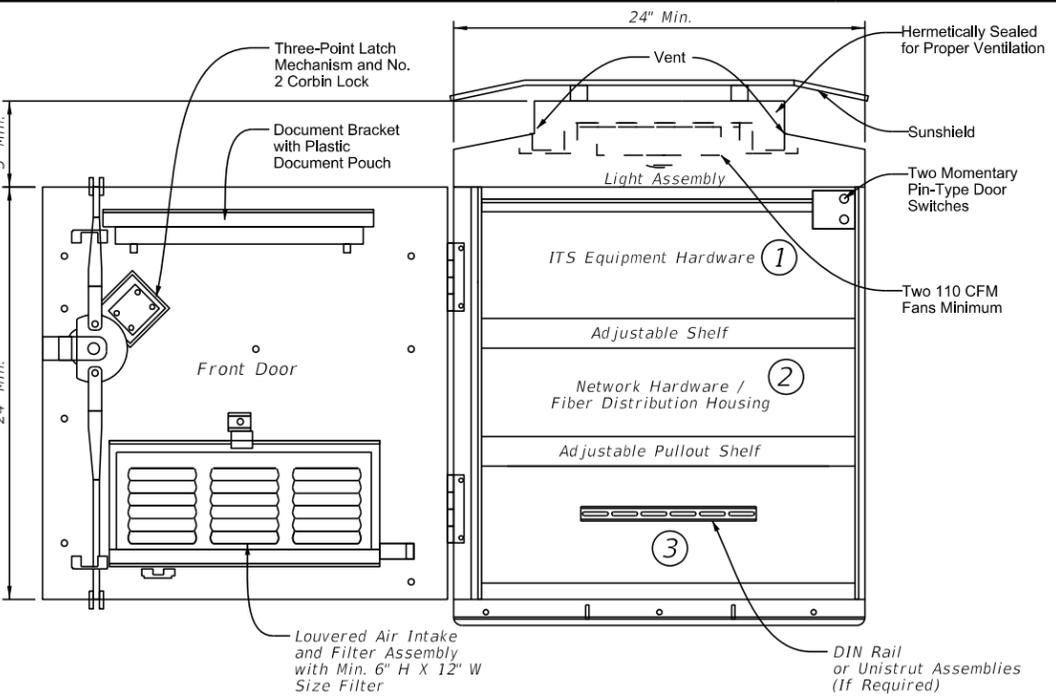
Without 19" EIA Rack Configuration 1



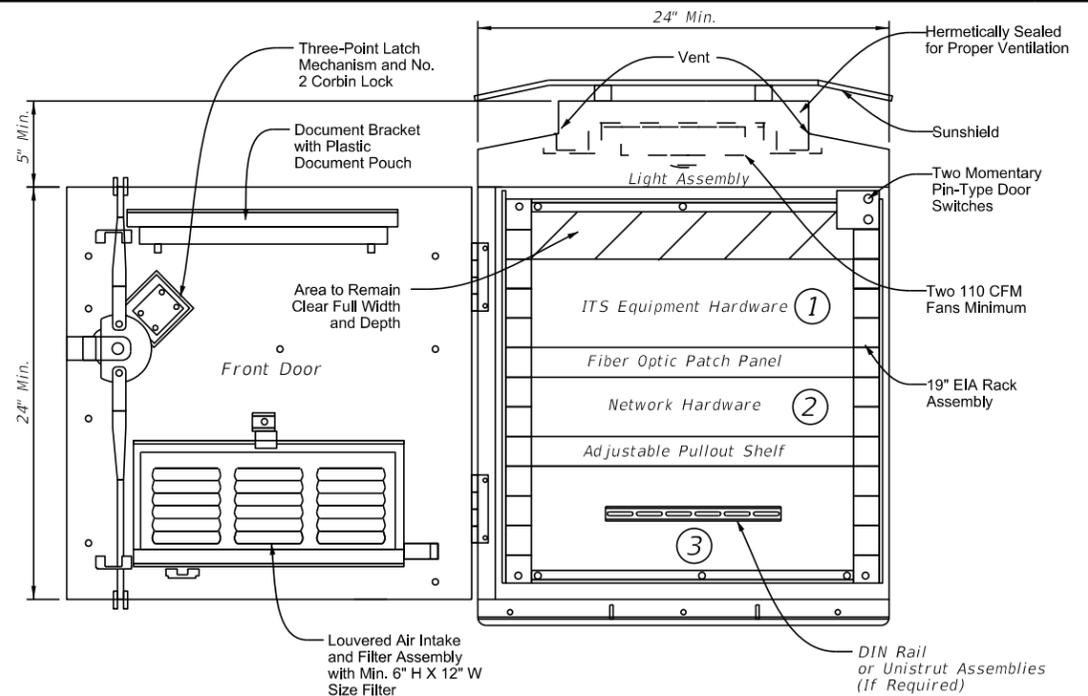
With 19" EIA Rack Configuration 2



Mounting Bracket Detail
 Not to Scale



Interior - Type 1 Without 19" EIA Rack - Front View
 Not to Scale

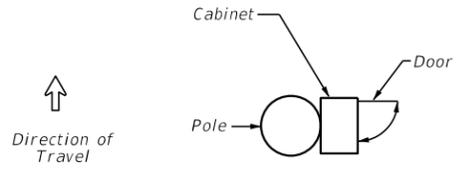
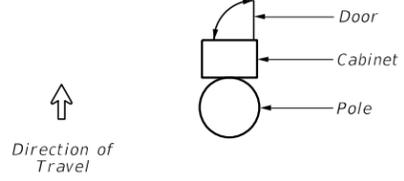


Interior - Type 1 With 19" EIA Rack - Front View
 Not to Scale

Typical Equipment Layout Legend	
①	Example Equipment CCTV Interface Panel, Radar Vehicle Sensing Device (RVSD) Equipment, Environmental Sensor Station (ESS) Equipment, Bluetooth Equipment, or ITS Radio Equipment (See General Note 1)
②	Ethernet Switch, Video Encoder, Terminal Server, Fiber Optic Transceivers, or Media Conversion Equipment (See General Note 1)
③	Power Distribution Assembly, Service Entrance Breakers, Primary AC Power, Auxiliary Power Strip, Ground Bus Bar Surge Protection Equipment

General Notes:

- Layout of hardware equipment and configuration shown is diagrammatic in nature and intended to represent a preferred Type 1 pole mounted cabinet setup. Hardware needed for each Type 1 cabinet varies and not all cabinet equipment may be shown. The contractor will be responsible for configuring cabinets with all appropriate ITS hardware and power supplies in accordance with the plans and specifications. The contractor may alter the cabinet configuration shown to maximize space and ensure easy access for maintenance.
- Mount cabinet as detailed on ITS(14) or ITS(17). Orientation of cabinet on ITS pole may vary depending on field conditions. Mount the pole mounted cabinet to the backside of the ITS pole, to allow maintenance personnel to access the cabinet while being able to view oncoming traffic.
- For ITS pole sites located on slopes greater than 4H:1V, mount the cabinet to the backside of the ITS pole as detailed on ITS(7). Mounting height to accommodate maintenance pad for easy access.
- All dimensions are approximate and represent minimum cabinet dimensions.
- Provide conduit entrances at the bottom of the cabinet.
- Paid under Special Specification "ITS Pole with Cabinet" (Configuration 1) without 19" EIA rack.
 Paid under Special Specification "ITS Pole with Cabinet" (Configuration 2) with 19" EIA rack.



Orientation of Type 1 Cabinet on ITS Pole (Typical)
 Not to Scale



ITS POLE MOUNTED CABINET TYPE 1 DETAILS

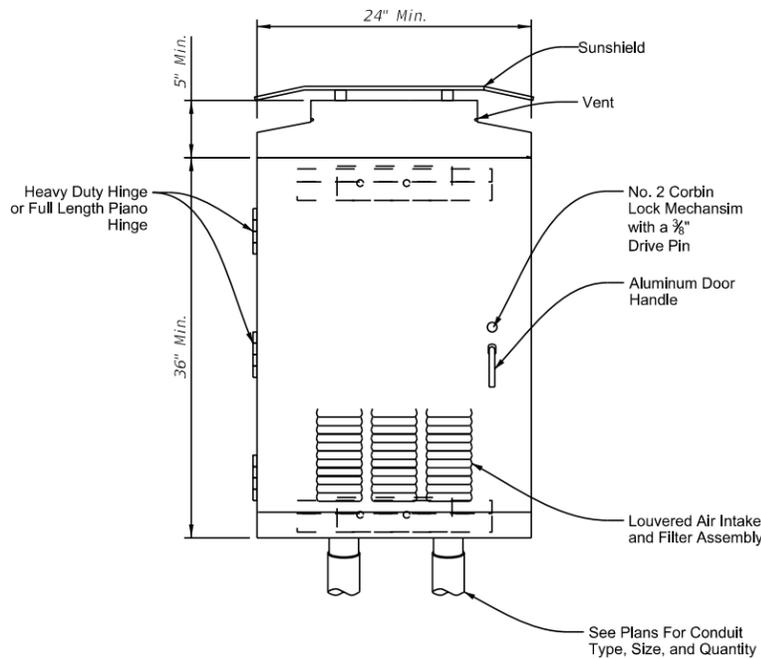
ITS(14)-15

FILE: ifs(14)-15.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT June 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS	0921	02	368	365 TOLL
DIST	COUNTY		SHEET NO.	
PHR	HIDALGO		2317	

This sheet was not changed as part of the VECP design process and remains in its original IFC state.

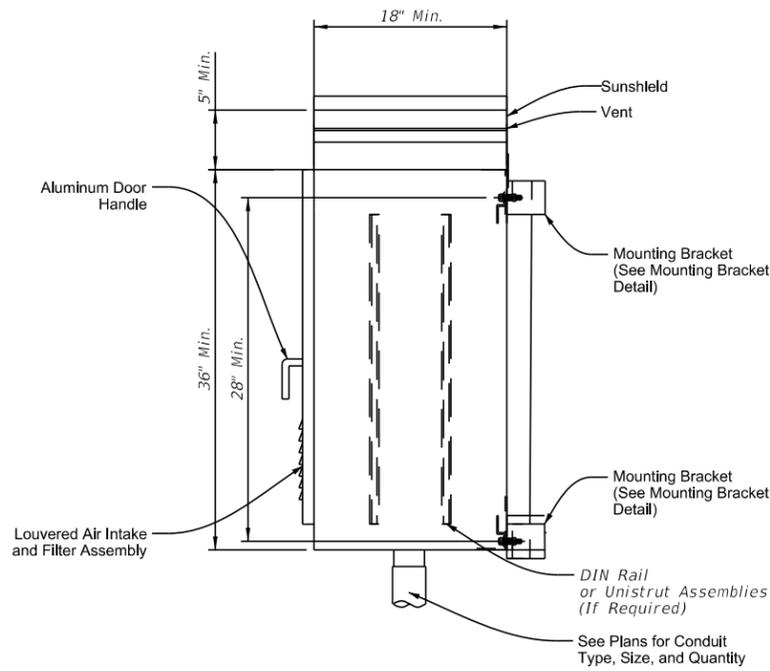
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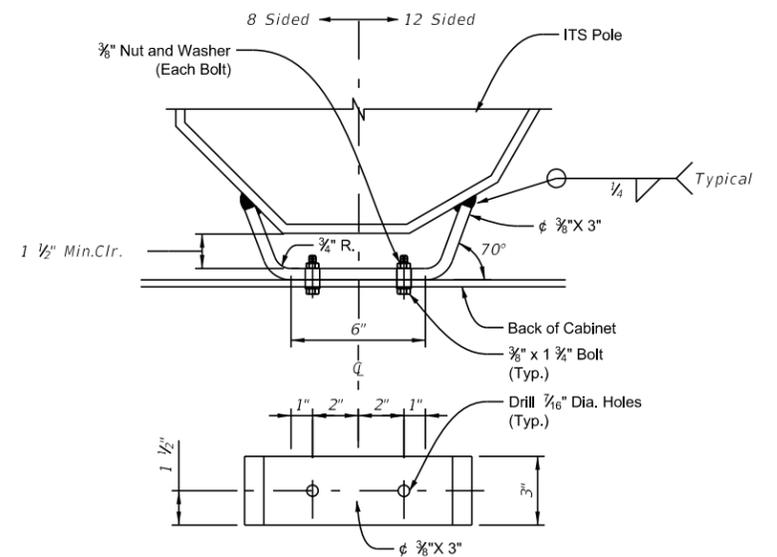
Pole Mounted Cabinet - Type 2 Front View

Not to Scale



Pole Mounted Cabinet - Type 2 Side View

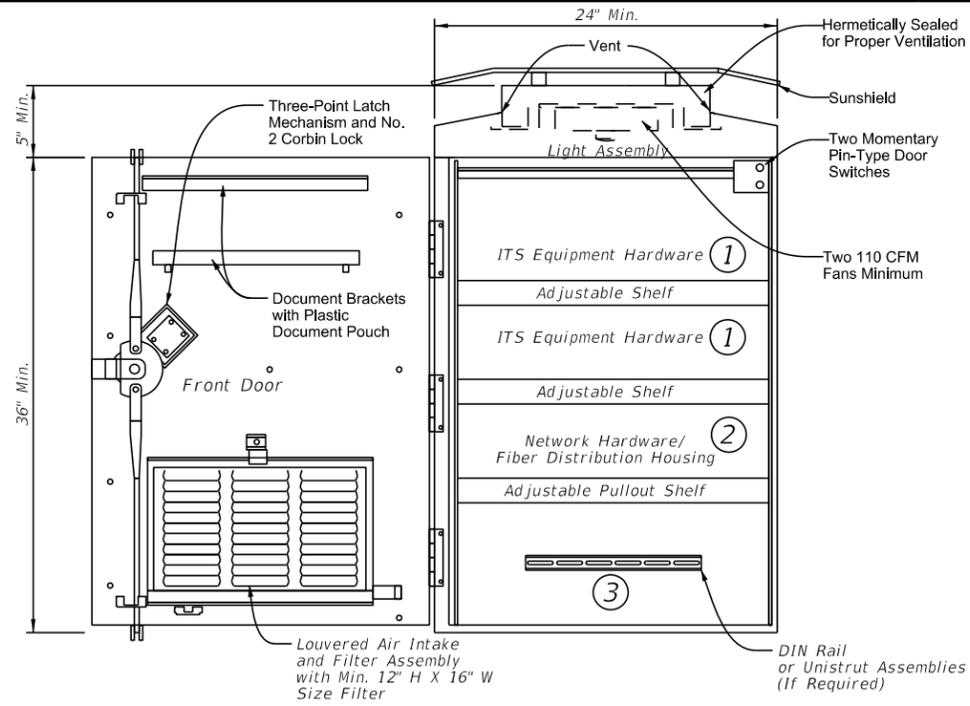
Not to Scale



Note: ITS Pole May be Round, Octagonal (8 Sided), or Dodecahedron (12 Sided). See ITS(1), and ITS(2) for Details.

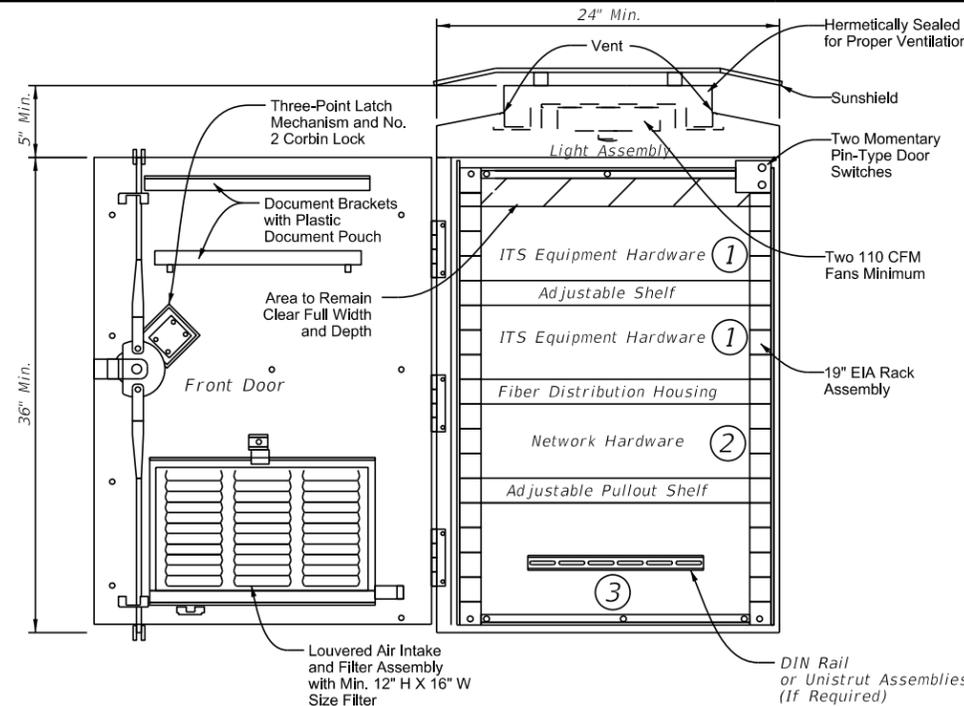
Mounting Bracket Detail

Not to Scale



Interior - Type 2 Without 19" EIA Rack - Front View

Not to Scale



Interior - Type 2 With 19" EIA Rack - Front View

Not to Scale

Typical Equipment Layout Legend	
Example Equipment	
①	CCTV Interface Panel, Radar Vehicle Sensing Device (RVSD) Equipment, DMS/LCS Controller, Environmental Sensor Station (ESS) Equipment, Bluetooth Equipment, or ITS Radio Equipment (See General Note 1)
②	Ethernet Switch, Video Encoder, Terminal Server, Fiber Optic Transceivers, or Media Conversion Equipment (See General Note 1)
③	Power Distribution Assembly, Service Entrance Breakers, Primary AC Power, Auxiliary Power Strip, Ground Bus Bar, Surge Protection Equipment

General Notes:

- Layout of hardware equipment and configuration shown is diagrammatic in nature and intended to represent a preferred Type 2 pole mounted cabinet setup. Hardware needed for each Type 2 cabinet varies and not all cabinet equipment may be shown. The contractor will be responsible for configuring cabinets with all appropriate ITS hardware and power supplies in accordance with the plans and specifications. The contractor may alter the cabinet configuration shown to maximize space and ensure easy access for maintenance.
- Mount cabinet as detailed on ITS(15) or ITS(17). Orientation of cabinet on ITS pole may vary depending on field conditions. Mount the pole mounted cabinet to the backside of the ITS pole, to allow maintenance personnel to access the cabinet while being able to view oncoming traffic.
- For ITS pole sites located on slopes greater than 4H:1V, mount the cabinet to the backside of the ITS pole as detailed on ITS(7). Mounting height to accommodate maintenance pad for easy access.
- All dimensions are approximate and represent minimum cabinet dimensions.
- Provide conduit entrances at the bottom of the cabinet.
- Paid under Special Specification "ITS Pole with Cabinet" (Configuration 1) without 19" EIA rack.
 Paid under Special Specification "ITS Pole with Cabinet" (Configuration 2) with 19" EIA rack.



Orientation of Type 2 Cabinet on ITS Pole (Typical)

Not to Scale

Texas Department of Transportation
 Traffic Operations Division Standard

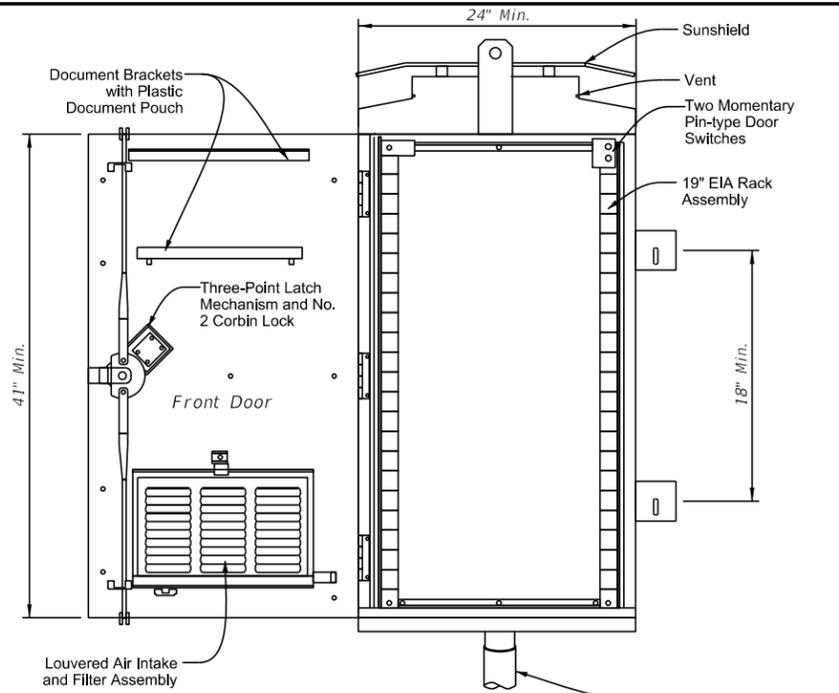
ITS POLE MOUNTED CABINET TYPE 2 DETAILS

ITS(15)-15

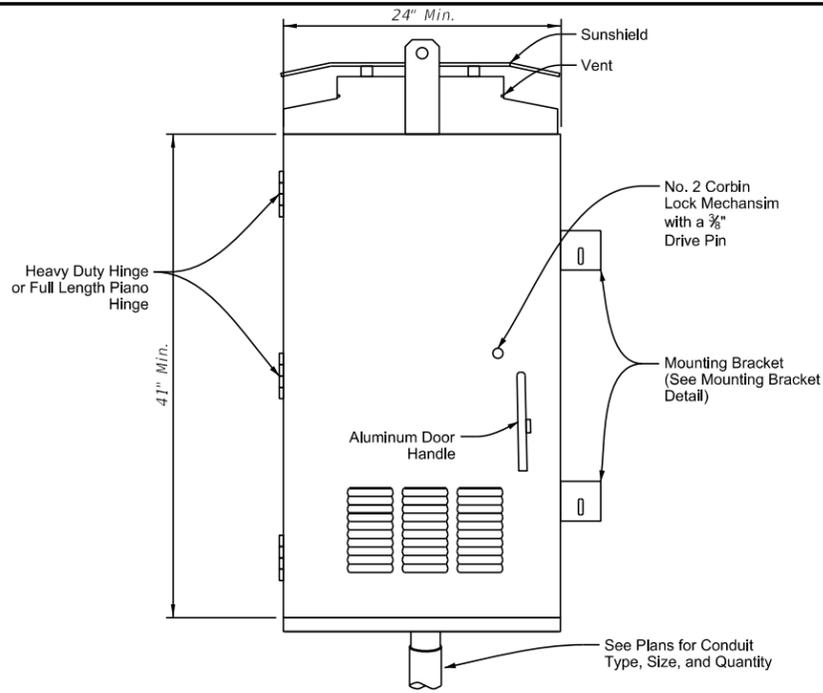
FILE: its(15)-15.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT June 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS	0921	02	368	365 TOLL
DIST	COUNTY		SHEET NO.	
PHR	HIDALGO		2318	

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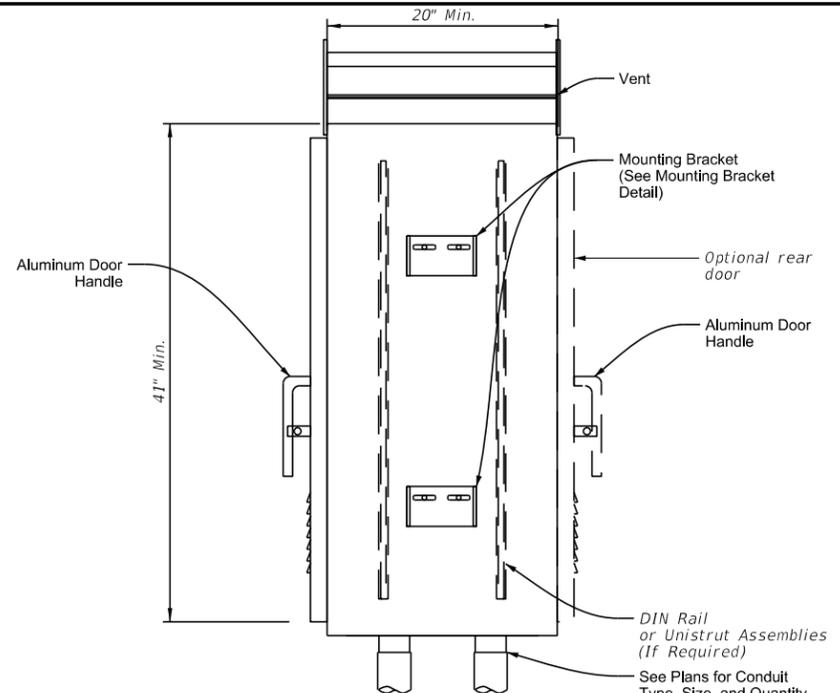
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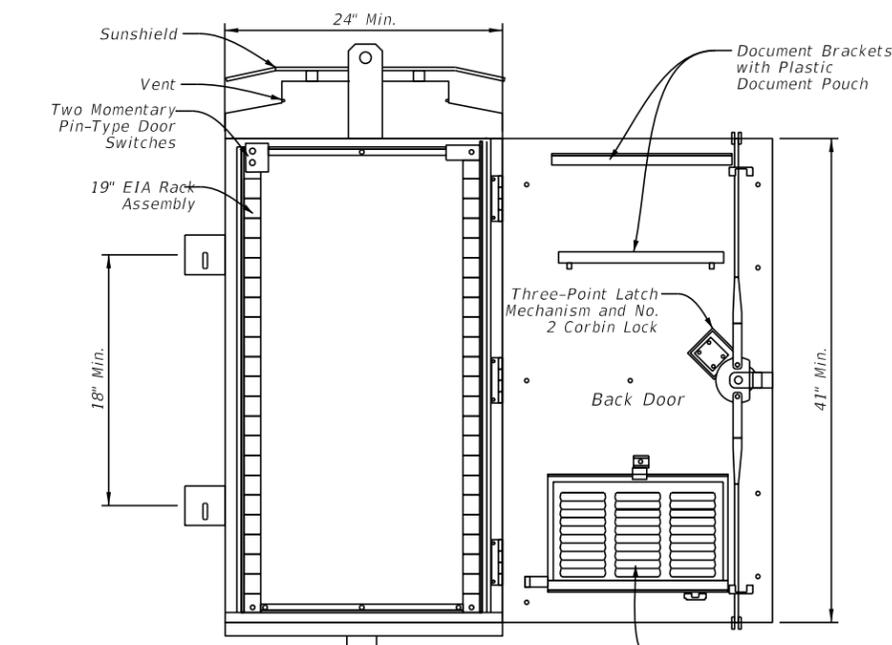
Interior - Type 3 Front View
 Not to Scale



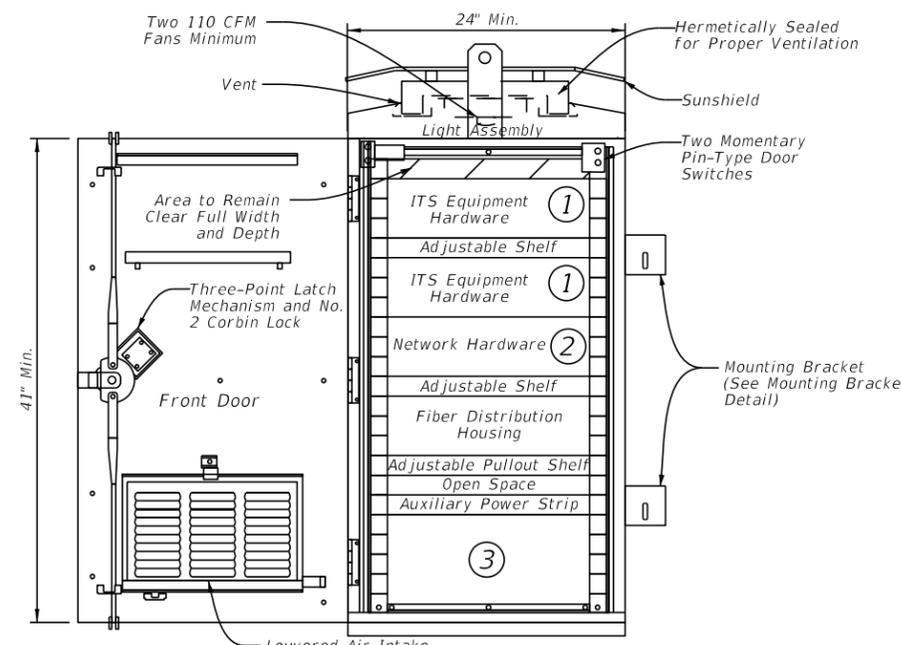
Pole Mounted Cabinet - Type 3 Front View
 Not to Scale



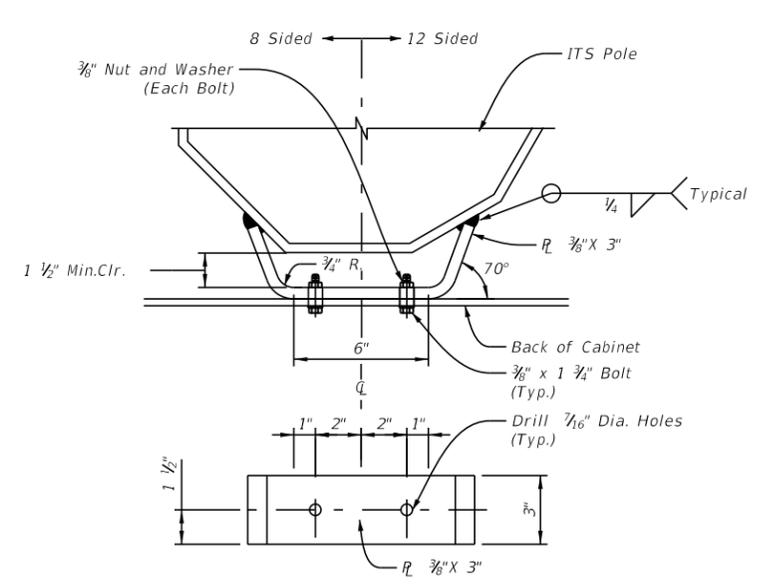
Pole Mounted Cabinet - Type 3 Side View
 Not to Scale



Interior - Type 3 Back View
 Not to Scale



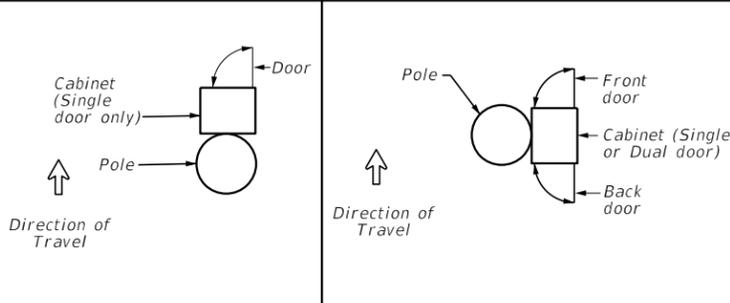
Interior - Type 3 With Rack Front View
 Not to Scale



Mounting Bracket Detail
 Not to Scale

General Notes:

- Layout of hardware equipment and configuration shown is diagrammatic in nature and intended to represent a preferred Type 3 pole mounted cabinet setup. Hardware needed for each Type 3 cabinet varies and not all cabinet equipment may be shown. The contractor will be responsible for configuring cabinets with all appropriate ITS hardware and power supplies in accordance with the plans and specifications. The contractor may alter the cabinet configuration shown to maximize space and ensure easy access for maintenance.
- Mount cabinet as detailed on ITS(16) or ITS(17). Orientation of cabinet on ITS pole may vary depending on field conditions. Mount the pole mounted cabinet to the backside of the ITS pole, to allow maintenance personnel to access the cabinet while being able to view oncoming traffic. A dual door configuration (configuration 2) is detailed above.
- For ITS pole sites located on slopes greater than 4H:1V, Mount the cabinet to the backside of the ITS pole as detailed on ITS(7). Mounting height to accommodate maintenance pad for easy access.
- All dimensions are approximate and represent minimum cabinet dimensions.
- Provide conduit entrances at the bottom of the cabinet.
- Paid under Special Specification "ITS Pole with Cabinet" (Configuration 1) with single door.
 Paid under Special Specification "ITS Pole with Cabinet" (Configuration 2) with dual door



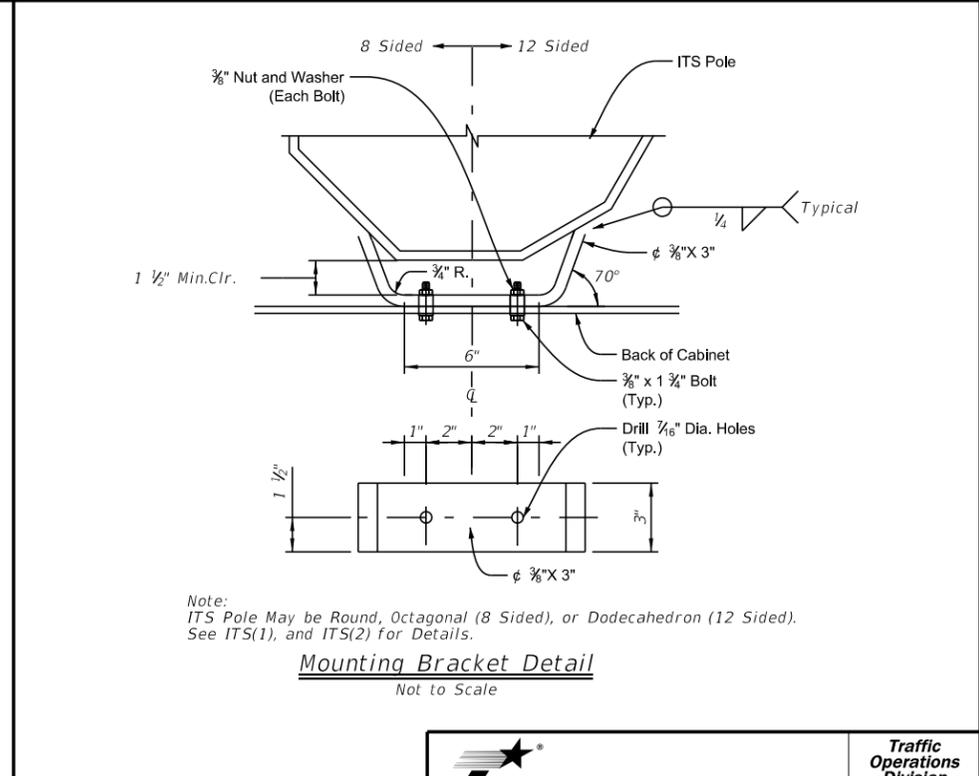
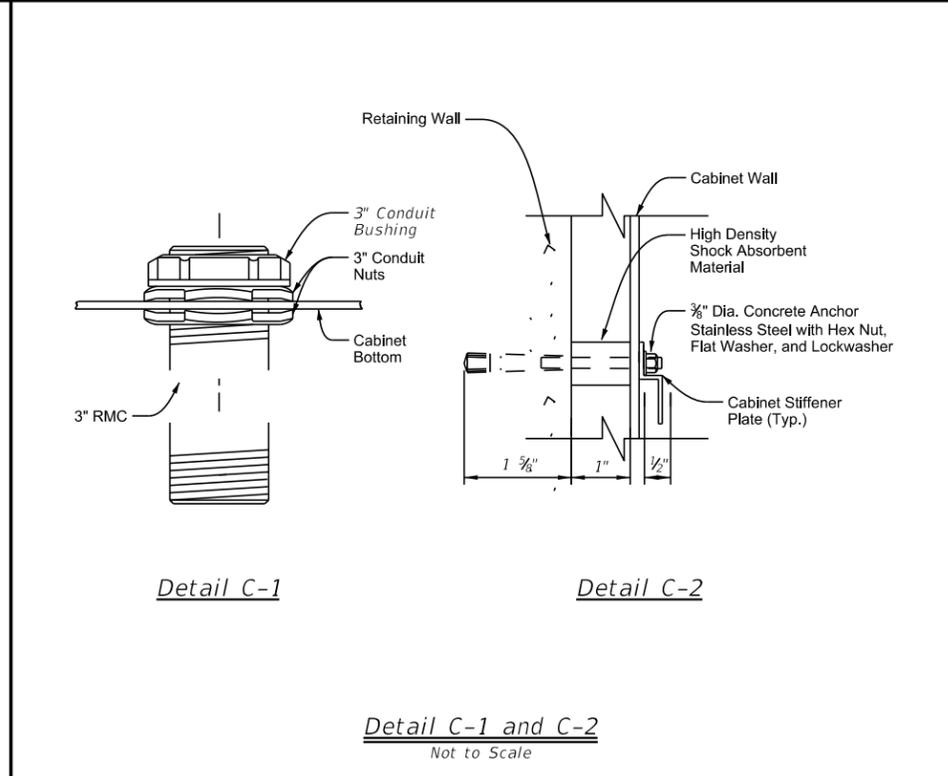
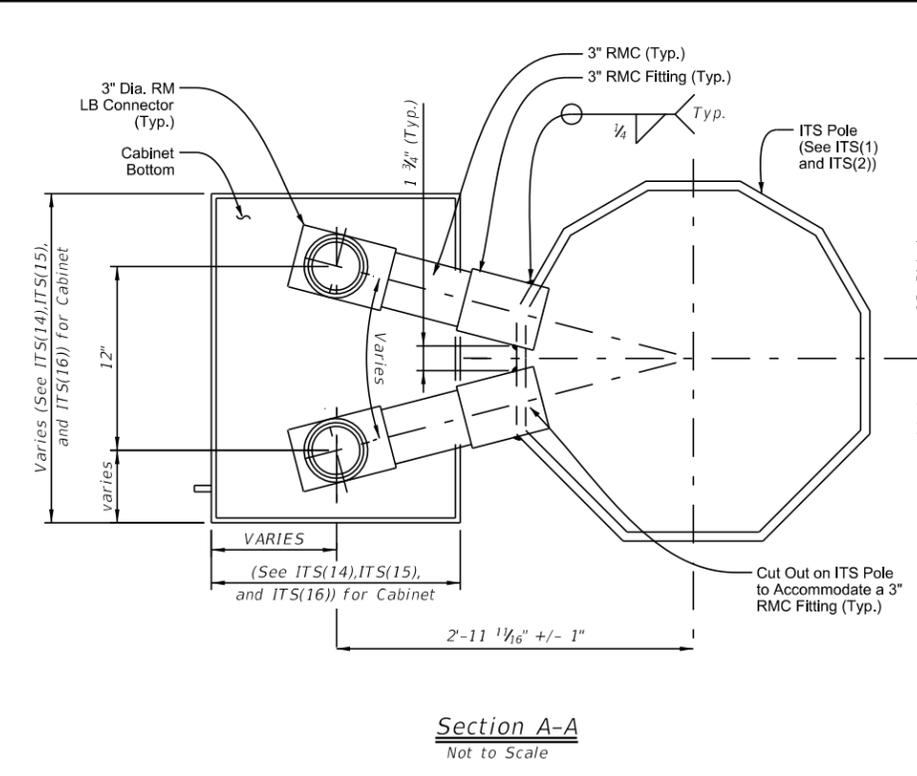
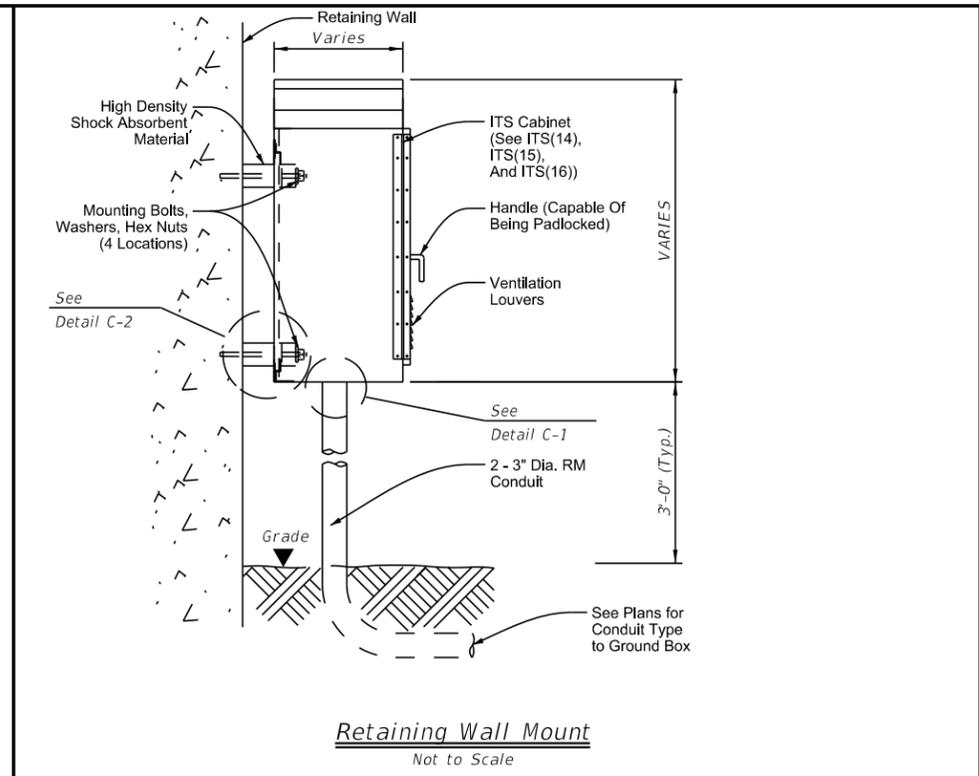
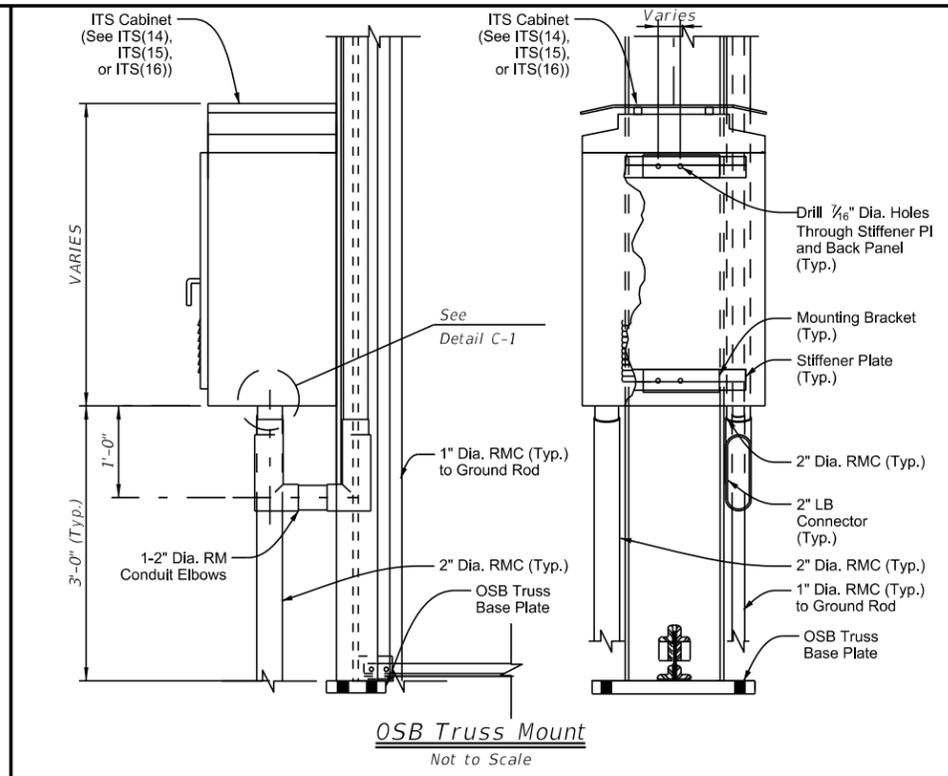
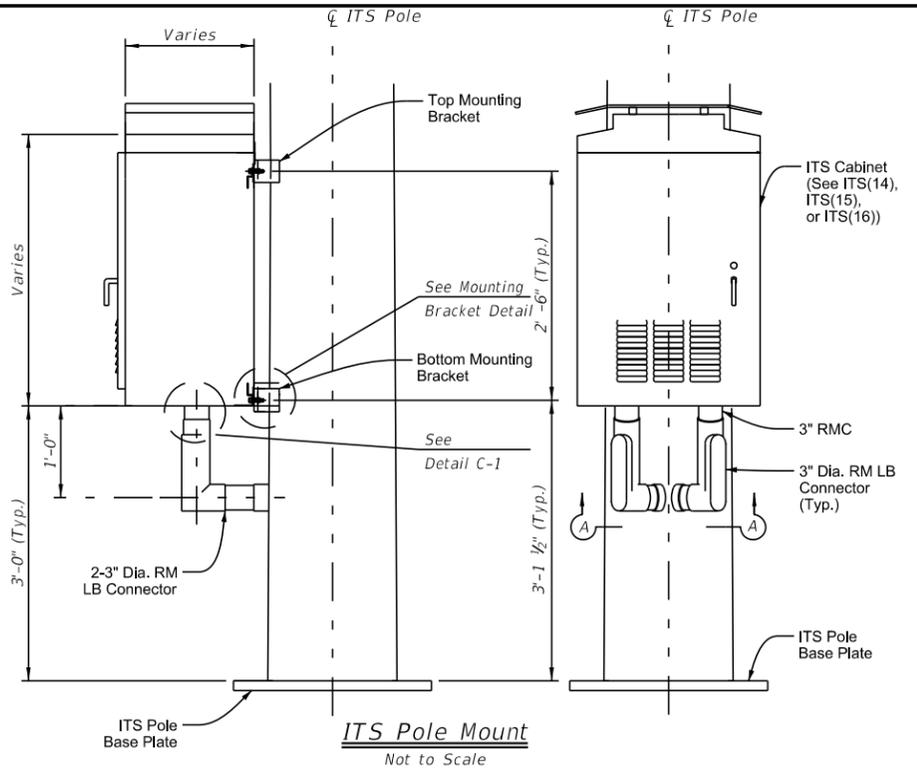
Orientation of Type 3 Cabinet on ITS Pole (Typical)
 Not to Scale

Typical Equipment Layout Legend	
Example Equipment	
①	CCTV Interface Panel, Radar Vehicle Sensing Device (RVSD) Equipment, DMS/LCS Controller, Environmental Sensor Station (ESS) Equipment, Bluetooth Equipment, or ITS Radio Equipment (See General Note 1)
②	Ethernet Switch, Video Encoder, Terminal Server, Fiber Optic Transceivers, or Media Conversion Equipment (See General Note 1)
③	Power Distribution Assembly, Service Entrance Breakers, Primary AC Power, Auxiliary Power Strip, Ground Bus Bar, Surge Protection Equipment

		Traffic Operations Division Standard	
<h2>ITS POLE MOUNTED CABINET TYPE 3 DETAILS</h2> <h3>ITS(16)-15</h3>			
FILE: its(16)-15.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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REVISIONS	0921	02	368
DIST: PHR	COUNTY: HIDALGO	SHEET NO.: 2319	

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- General Notes:**
1. Mount cabinet as detailed on ITS(14), ITS(15), ITS(16), or ITS(17). Orientation of cabinet on ITS pole may vary depending on field conditions. Mount the pole mounted cabinet to the backside of the ITS pole, to allow maintenance personnel to access the cabinet while being able to view oncoming traffic.
 2. For ITS pole sites located on slopes greater than 4V:1H, mount the cabinet to the backside of the ITS pole as detailed on ITS(7). Mounting height to accommodate maintenance pad for easy access.
 3. All dimensions are approximate and represent minimum dimensions.
 4. Provide conduit entrances at the bottom of the cabinet.

Section A-A
Not to Scale

Detail C-1 and C-2
Not to Scale

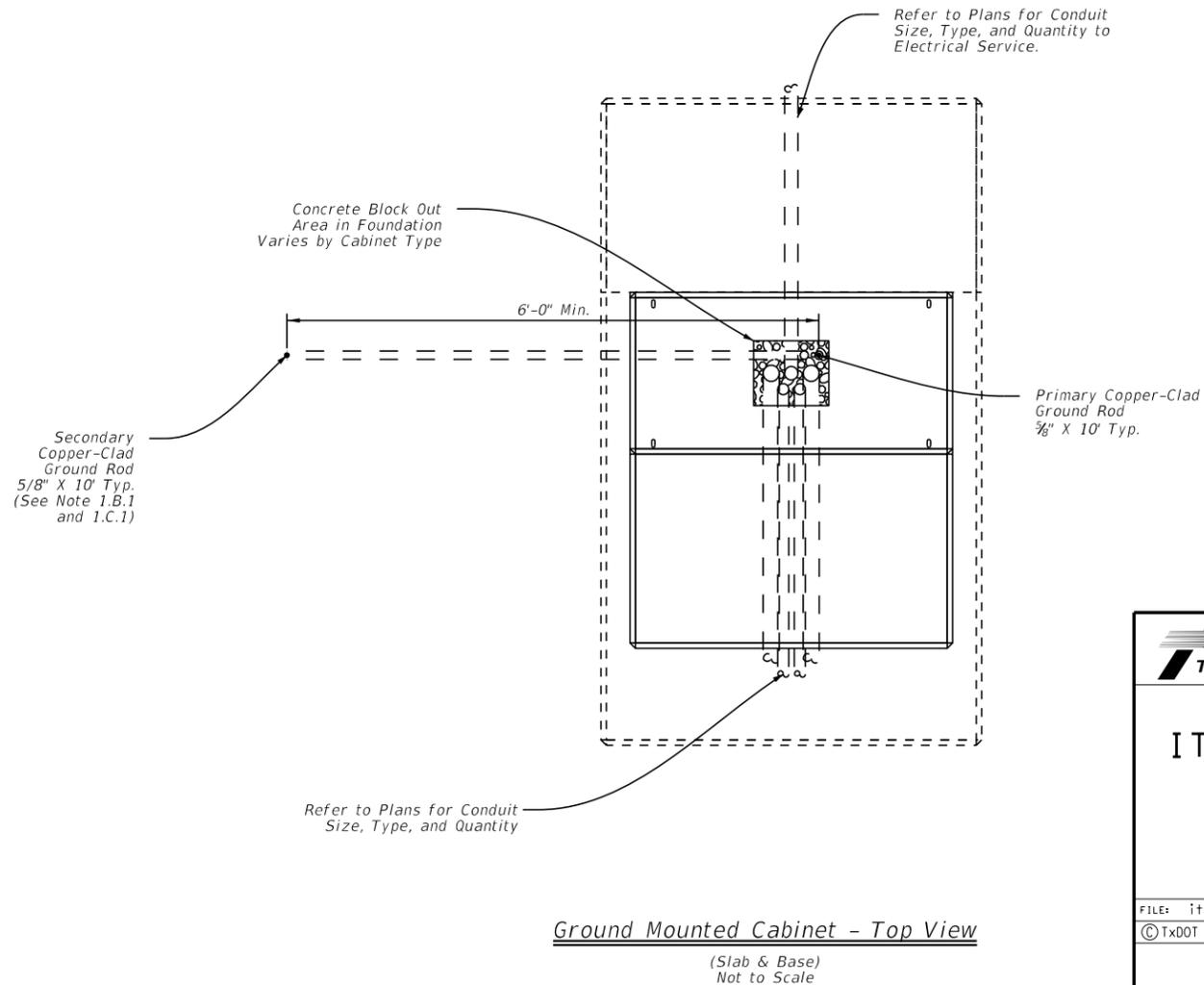
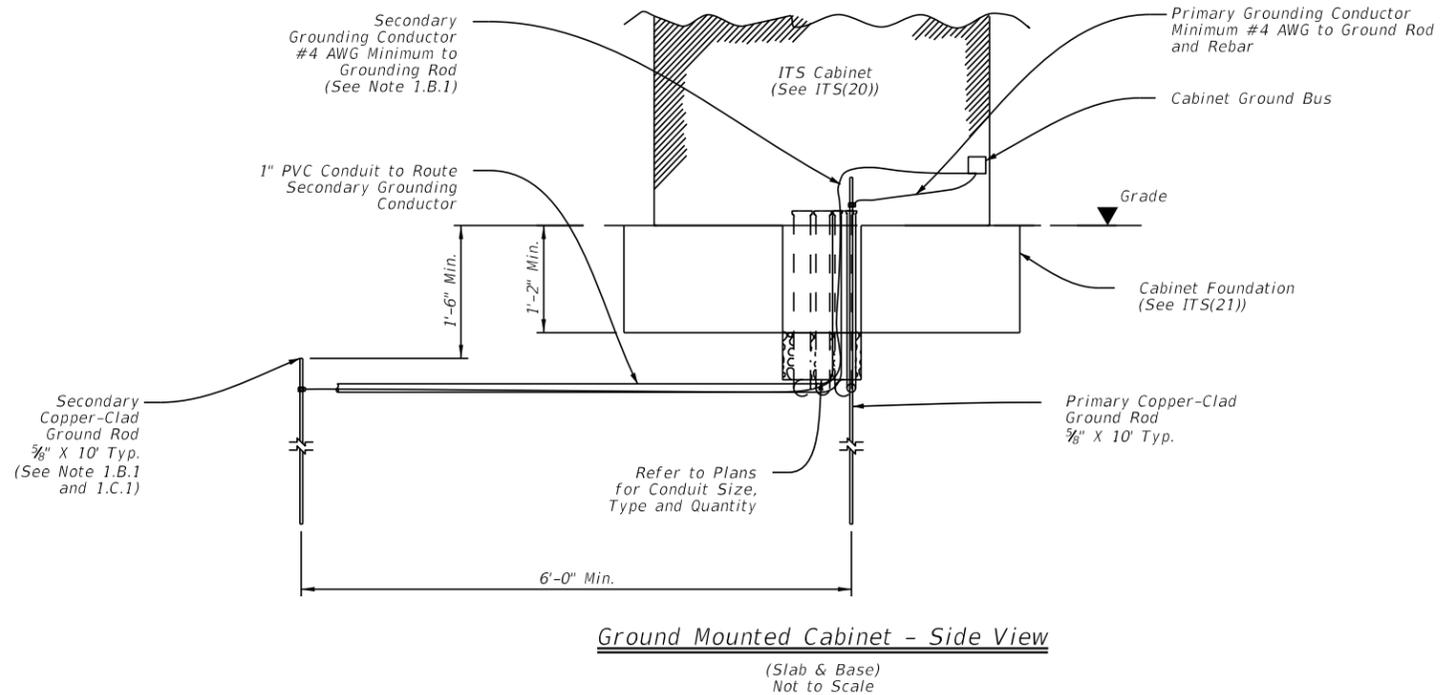
Mounting Bracket Detail
Not to Scale

		Traffic Operations Division Standard	
<h2>ITS POLE MOUNTED CABINET MISC. MOUNTING DETAILS</h2> <h3>ITS(17)-15</h3>			
FILE: ifs(17)-15.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
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	DIST	COUNTY	SHEET NO.
	PHR	HIDALGO	2320

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General Notes:

1. Grounding System:
 - A. Description:
 1. Provide ground system consisting of copper wires, ground rods, and concrete-encased grounding electrodes (Ufers), of the configuration shown to minimize potential gradient irregularities, drain leakage, and fault currents to earth.
 - B. Performance:
 1. Provide a grounding system, consisting of a minimum one ground rod, having a resistance not greater than 5 Ohms to ground. Additional ground rods may be added to the system to achieve less than 5 Ohms resistance.
 - C. Design Criteria:
 1. The combined ground resistance of separate systems bonded together below grade may be used to meet the specified ground resistance, but the minimum number of rods indicated shall still be provided.
 2. Measure the resistance of systems requiring separate ground resistance separately before bonding below grade.
 3. Only provide UL-approved materials listed for grounding systems.
 4. Do not combine materials that can form an electrolytic couple that will accelerate corrosion in the presence of moisture, unless moisture is permanently excluded from the junction of such materials.
 5. Submit product data for the materials and products used to perform the work of this section.
 - D. Materials:
 1. Conductors:
 - a. Bare Ground Conductor:
 - 1) For No. 8 AWG or larger bare ground wire sizes, provide soft drawn copper, Class A or Class B, stranded wire meeting the requirements of ASTM B 8.
 2. Ground Compression Connectors:
 - a. Provide molds, thermite packages, and other material for ground compression connectors that are full-rated to carry 100% of the cable rating and which meet IEEE 837.
 - 1) Provide the compression materials from a single manufacturer throughout the project.
 - 2) Provide the items necessary for connecting cable to ground rods.
 3. Ground Rods:
 - a. Provide copper-clad steel ground rods conforming to the requirements specified in UL 467.
 - 1) Diameter: 5/8 in.
 - 2) Length: 10 Ft.
 2. Installation:
 - A. Install grounding components and systems in accordance with the requirements specified in UL 467, IEEE 81, and IEEE 142.
 - B. System Grounding:
 1. Ground Rods:
 - a. Drive ground rods into the ground until the tops of the rods are approximately 18 in. below finished grade.
 - b. If multiple ground rods are needed to meet the minimum resistance of 5 Ohms, space ground rods as evenly as possible, at least 6 feet apart, and so conductors will be connected below grade.
 2. Conductors:
 - a. Provide minimum No. 4 AWG ground wire for system and equipment grounding.
 - b. Using suitable fasteners, securely attach exposed ground wires to structural supports at not more than 2 ft. intervals, where applicable.
 - c. Bends in ground wires greater than 45 degrees are unacceptable.
 3. Cable Connections:
 - a. Use approved exothermic-welded connections for conductor splices and connections between conductors and other components.
 3. Testing:
 - A. Resistance Test:
 1. Test Procedure:
 - a. The ground-resistance measurements of each ground Rod shall be taken.
 - 1) The resistance to ground shall be measured in accordance with the fall-of-potential method specified in IEEE 81 and IEEE 142.
 - 2) Ground-resistance measurements shall be made in normally dry weather, not less than 48 hours after rainfall, and with the ground under test isolated from other grounds.
 - b. Test reports shall be prepared that indicate the location of the ground rod, the grounding system, and the resistance and soil conditions at the time the test was performed.
 2. Acceptance Criteria:
 - a. The grounding system must have a resistance not greater than 5 Ohms.
 - b. Do not energize any part of the electrical distribution system prior to the resistance testing of that system's ground rods and grounding system, and submission of the test results for approval.
 3. Inspections:
 - a. Prepare and submit as-built record drawings of the grounding system as installed and test reports for approval.

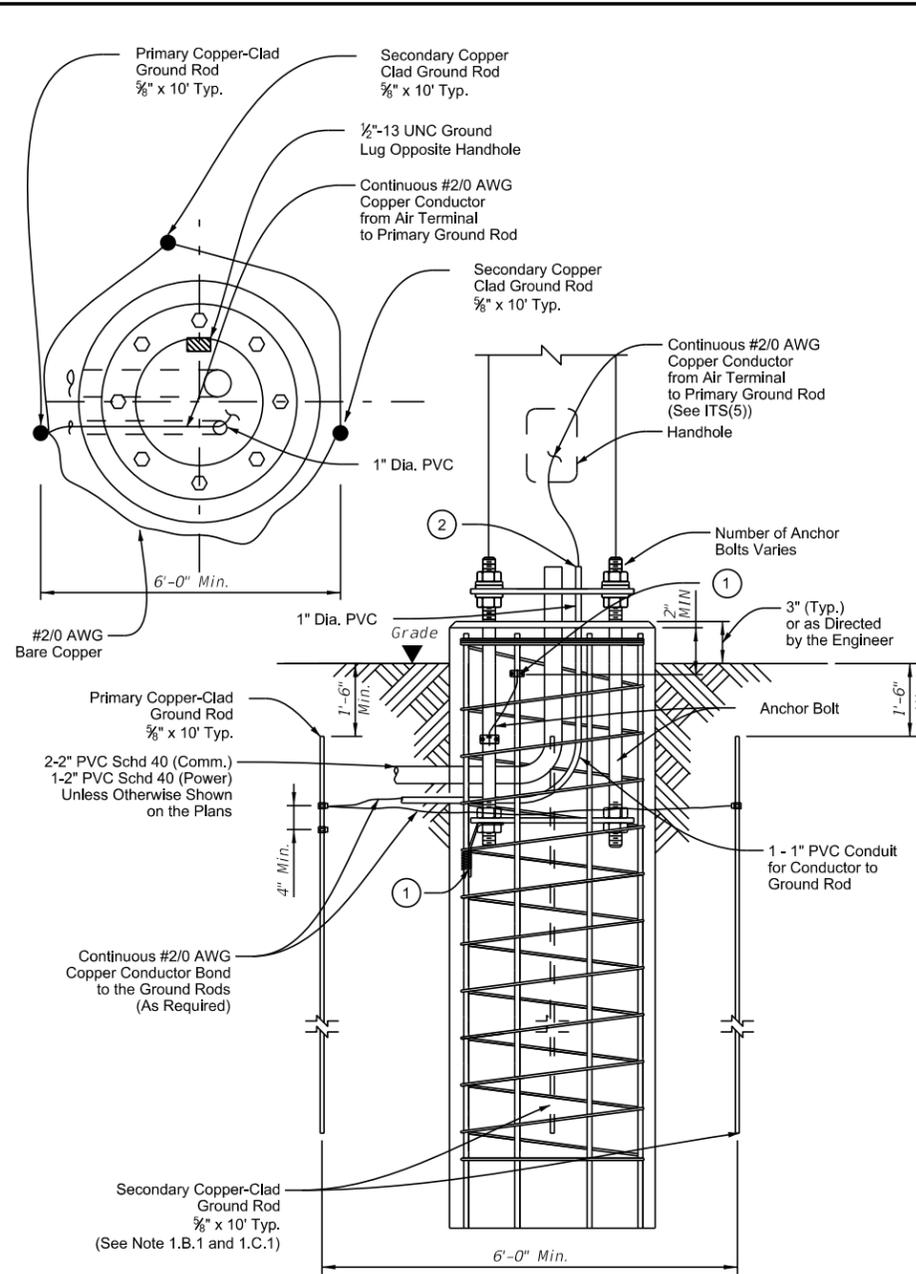


		Traffic Operations Division Standard	
<h2>ITS CABINET GROUNDING DETAILS</h2>			
<h3>ITS(18)-15</h3>			
FILE: ifs(18)-15.dgn	DN: TxDOT	CK: TxDOT	DR: TxDOT
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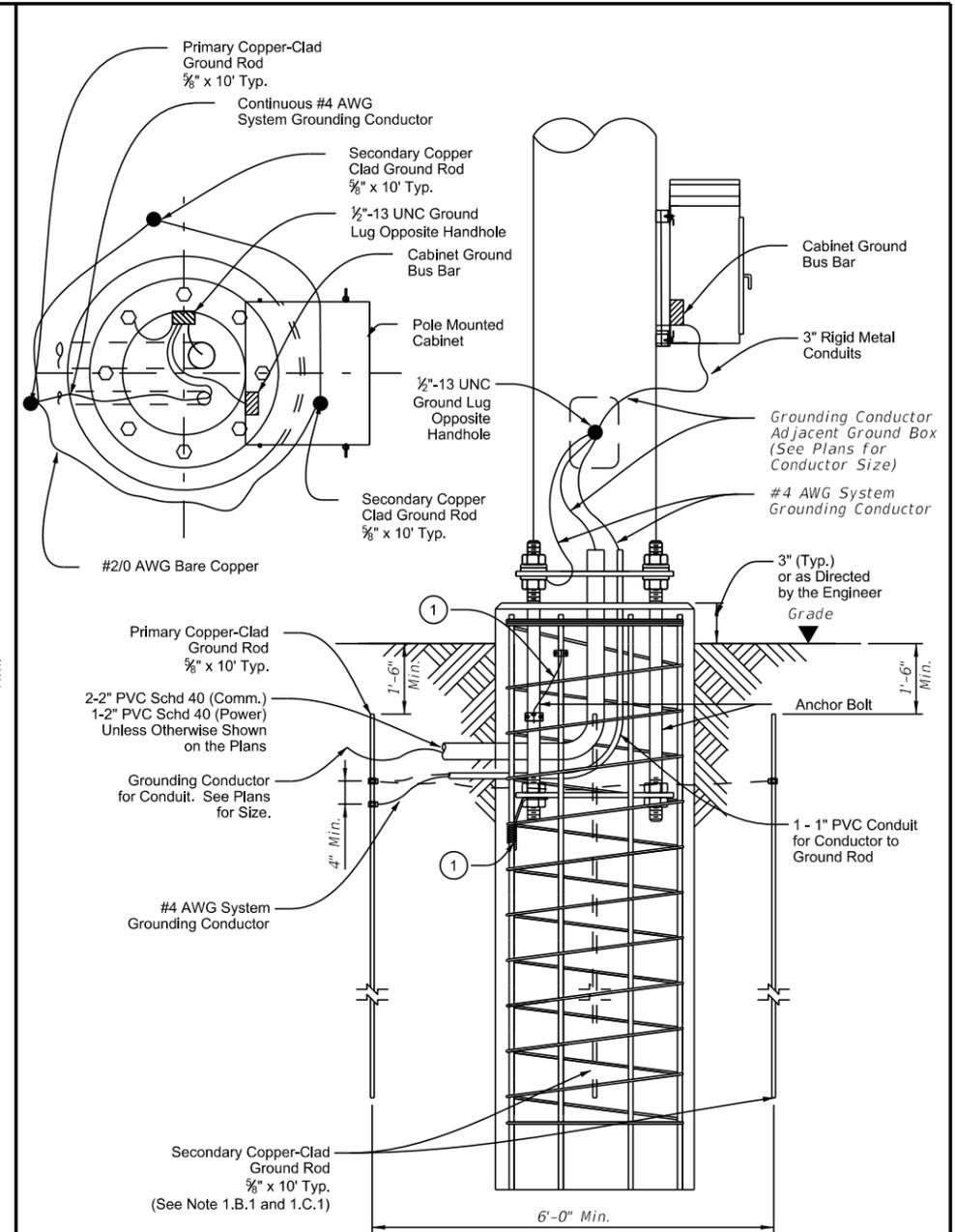
General Notes:

1. Grounding System:
 - A. Description:
 1. Provide ground system consisting of copper wires, ground rods, and concrete-encased grounding electrodes (Ufers), of the configuration shown to minimize potential gradient irregularities, drain leakage, and fault currents to earth.
 - B. Performance:
 1. Provide a grounding system, consisting of a minimum one ground rod, having a resistance not greater than 5 Ohms to ground. Additional ground rods may be added to the system to achieve less than 5 Ohms resistance.
 - C. Design Criteria:
 1. The combined ground resistance of separate systems bonded together below grade may be used to meet the specified ground resistance, but the minimum number of rods indicated shall still be provided.
 2. Measure the resistance of systems requiring separate ground resistance separately before bonding below grade.
 3. Only provide UL-approved materials listed for grounding systems.
 4. Do not combine materials that can form an electrolytic couple that will accelerate corrosion in the presence of moisture, unless moisture is permanently excluded from the junction of such materials.
 5. Submit product data for the materials and products used to perform the work of this section.
 - D. Materials:
 1. Conductors:
 - a. Bare Ground Conductor:
 - 1) For No. 8 AWG or larger bare ground wire sizes, provide soft drawn copper, Class A or Class B, stranded wire meeting the requirements of ASTM B 8.
 - b. Ground Compression Connectors:
 - a. Provide molds, thermite packages, and other material for ground compression connectors that are full-rated to carry 100% of the cable rating and which meet IEEE 837.
 - 1) Provide the compression materials from a single manufacturer throughout the project.
 - b. Provide the items necessary for connecting cable to ground rods.
 2. Ground Rods:
 - a. Provide copper-clad steel ground rods conforming to the requirements specified in UL 467.
 - 1) Diameter: 5/8 in.
 - 2) Length: 10 ft.
2. Installation:
 - A. Install grounding components and systems in accordance with the requirements specified in UL 467, IEEE 81, and IEEE 142.
 - B. System Grounding:
 1. Ground Rods:
 - a. Drive ground rods into the ground until the tops of the rods are approximately 18 in. below finished grade.
 - b. If multiple ground rods are needed to meet the minimum resistance of 5 Ohms, space ground rods as evenly as possible, at least 6 feet apart, so conductors will be connected below grade.
 2. Conductors:
 - a. Provide minimum No. 2/0 AWG ground wire for lightning protection from air terminal.
 - b. Provide minimum No. 4 AWG ground wire for system and equipment grounding.
 - c. Using suitable fasteners, securely attach exposed ground wires to structural supports at not more than 2 ft. intervals, where applicable.
 - d. Bends in ground wires greater than 45 degrees are unacceptable.
 3. Cable Connections:
 - a. Use approved exothermic-welded connections for conductor splices and connections between conductors and other components.
 3. Testing:
 - A. Resistance Test:
 1. Test Procedure:
 - a. The ground-resistance measurements of each ground Rod shall be taken.
 - 1) The resistance to ground shall be measured in accordance with the fall-of-potential method specified in IEEE 81 and IEEE 142.
 - 2) Ground-resistance measurements shall be made in normally dry weather, not less than 48 hours after rainfall, and with the ground under test isolated from other grounds.
 - b. Test reports shall be prepared that indicate the location of the ground rod, the grounding system, and the resistance and soil conditions at the time the test was performed.
 2. Acceptance Criteria:
 - a. The grounding system must have a resistance not greater than 5 Ohms.
 - b. Do not energize any part of the electrical distribution system prior to the resistance testing of that system's ground rods and grounding system, and submission of the test results for approval.
 3. Inspections:
 - a. Prepare and submit as-built record drawings of the grounding system as installed and test reports for approval.



Lightning Protection System

Not to Scale



Grounding Layout Typical Pole Mounted Cabinet

Not to Scale

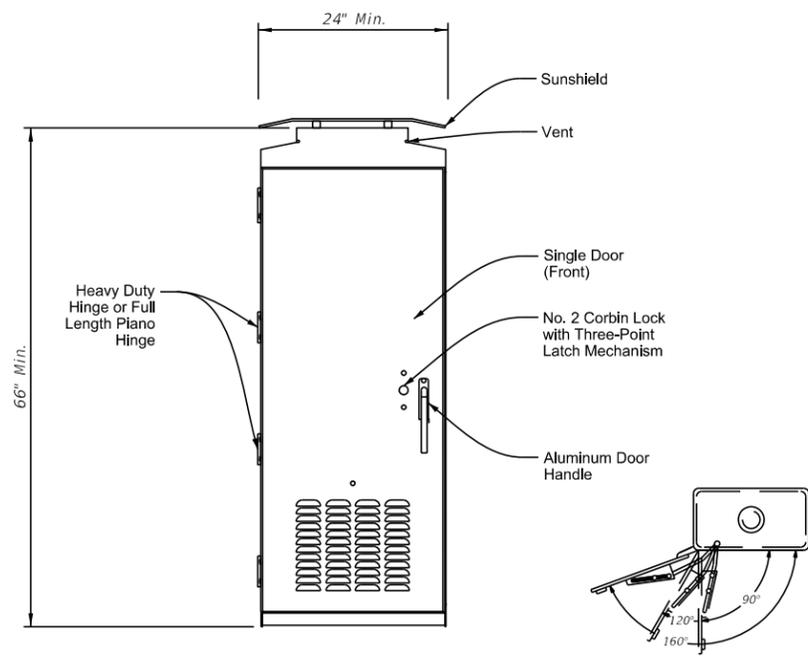
Reference Notes:

- ① Bond anchor bolts to rebar with #2/0 AWG jumper and two mechanical connectors or by bending No. 3 bar on bottom template as shown and wire tightly with ten turns of No. 10 wire or one mechanical connector. Mechanical connectors shall be UL Listed for concrete encasement.
- ② Cut PVC approximately 1 in. above concrete and install bell or bushing. Align conduit as close as possible to point of attachment to base plate to minimize bends in #2/0 wire.

				Traffic Operations Division Standard	
<h2>ITS POLE GROUNDING DETAILS</h2>					
<h3>ITS(19)-15</h3>					
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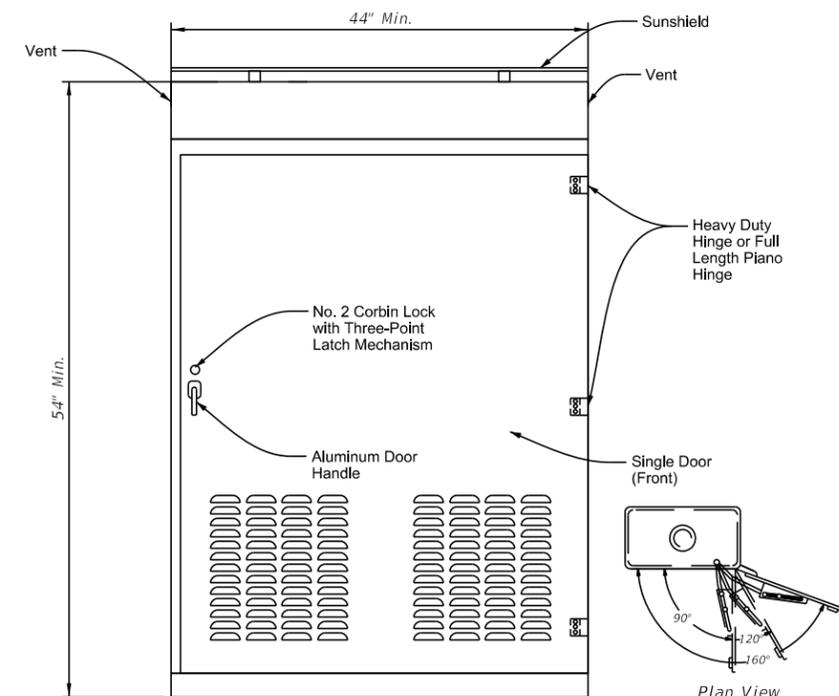
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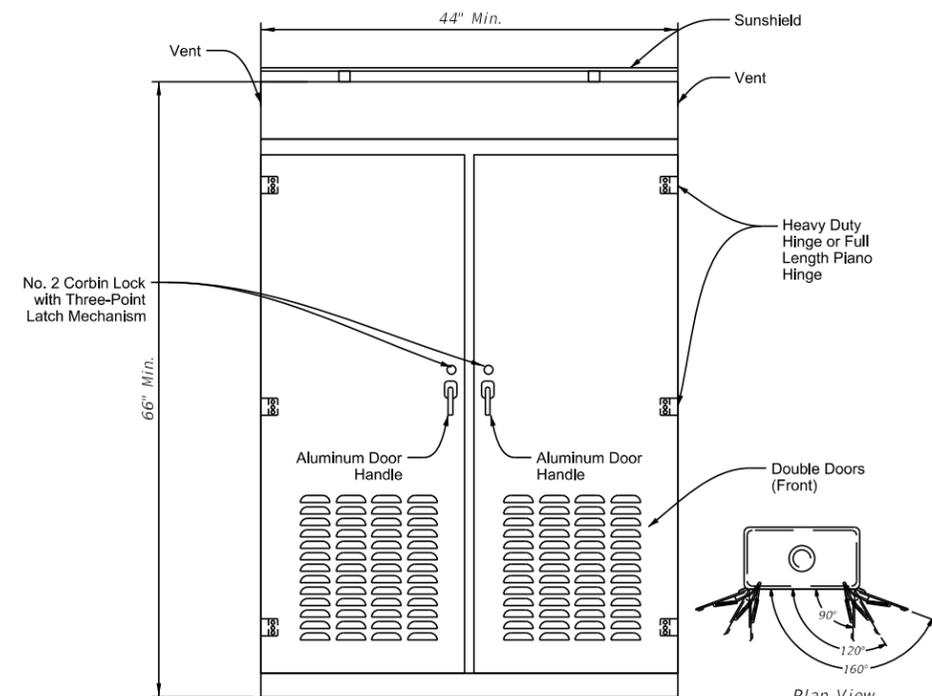
Type 4 (Small) Cabinet
 Front View

Plan View
 Door Stop Detail
 (3 Positions)



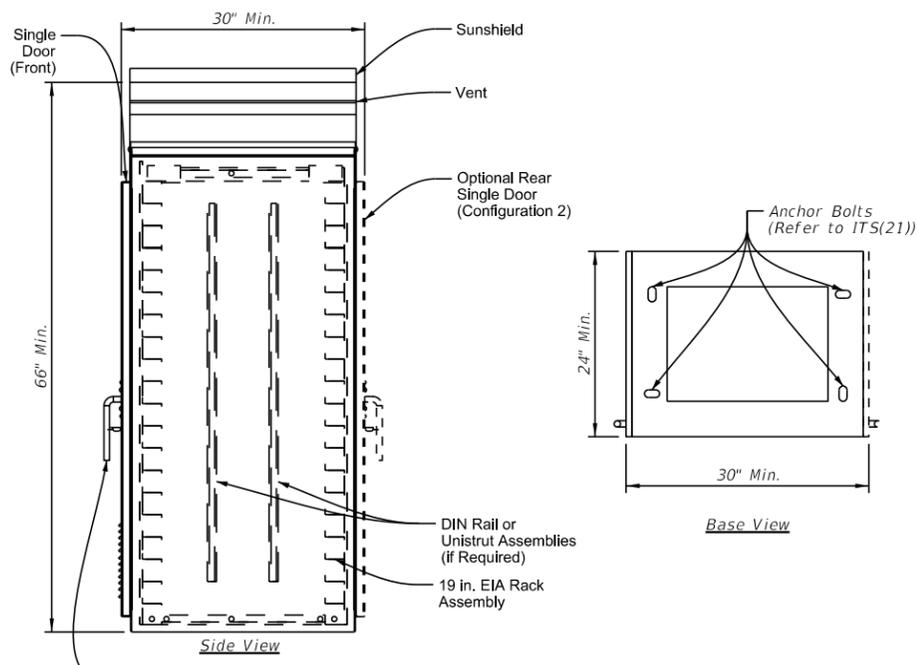
Type 5 (Medium) Cabinet
 Front View

Plan View
 Door Stop Detail
 (3 Positions)



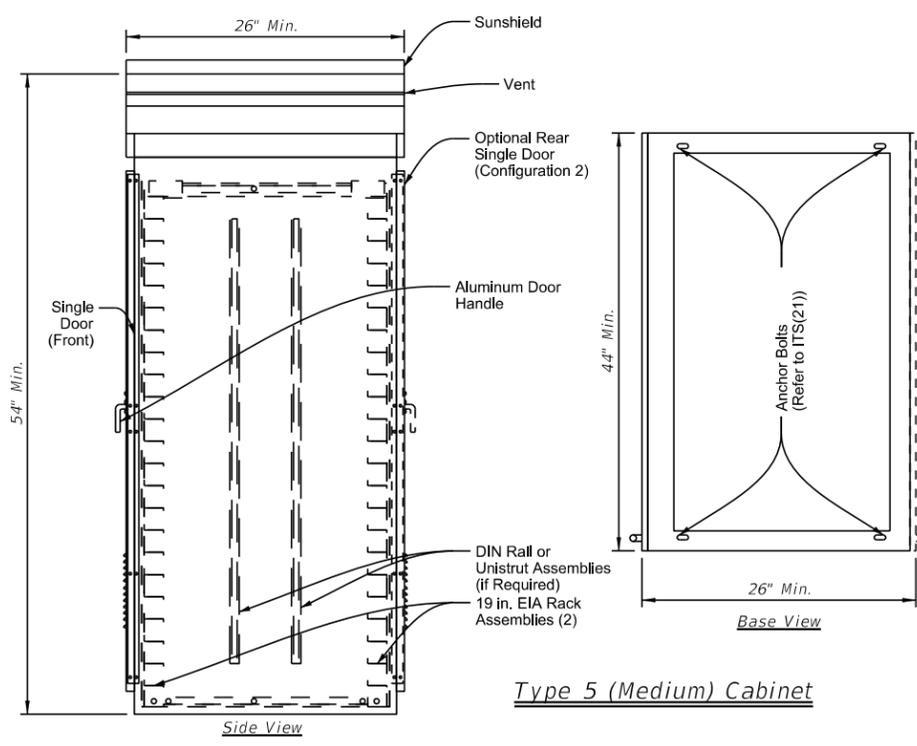
Type 6 (Large) Cabinet
 Front View

Plan View
 Door Stop Detail
 (3 Positions)



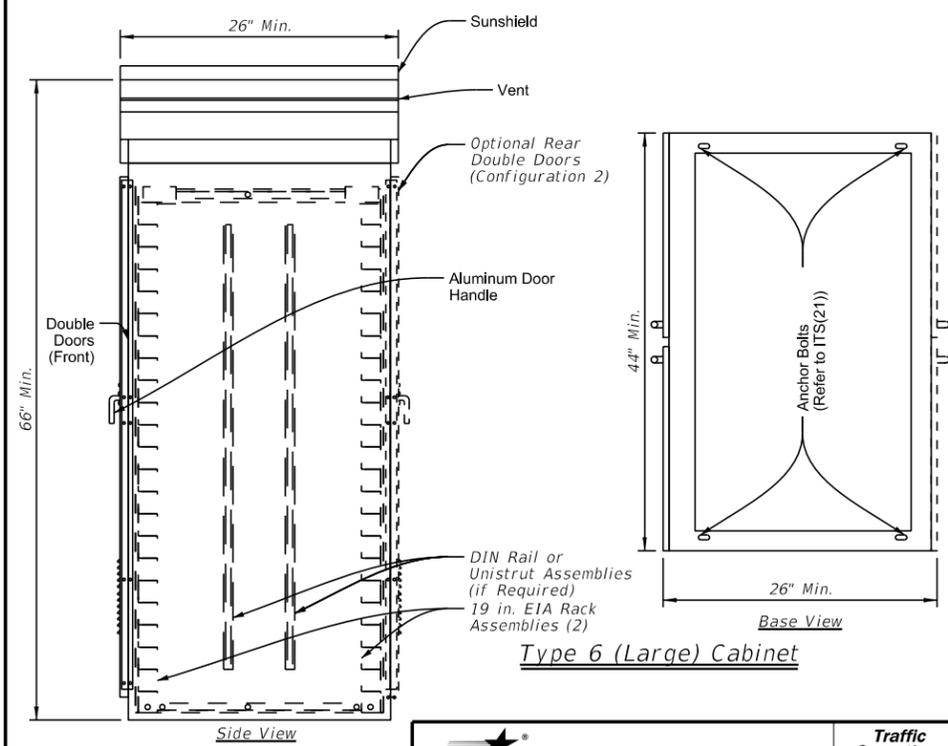
Type 4 (Small) Cabinet
 Side View

Base View



Type 5 (Medium) Cabinet
 Side View

Base View



Type 6 (Large) Cabinet
 Side View

Base View

General Notes:

1. Cabinet hardware equipment and door configuration shown is diagrammatic in nature and intended to represent a preferred ground mounted cabinet setup. Door orientation may vary and will be noted in the plans. The contractor will be responsible for configuring cabinets with all appropriate ITS hardware and power supplies in accordance with the plans and specifications. The contractor may alter the cabinet configuration shown to maximize space and ensure easy access for maintenance.
2. All dimensions are approximate and represent minimum dimensions.
3. Provide conduit entrances at the bottom of the cabinet.
4. Paid under Special Specification "ITS Ground Mounted Cabinet" (Configuration 1) with single door. Paid under Special Specification "ITS Ground Mounted Cabinet" (Configuration 2) for rear door option.
5. Sunshield to be mounted to cabinet using nuts, bolts, and spacers. Water proof sealant to be used at cabinet surface/bolt contact points.



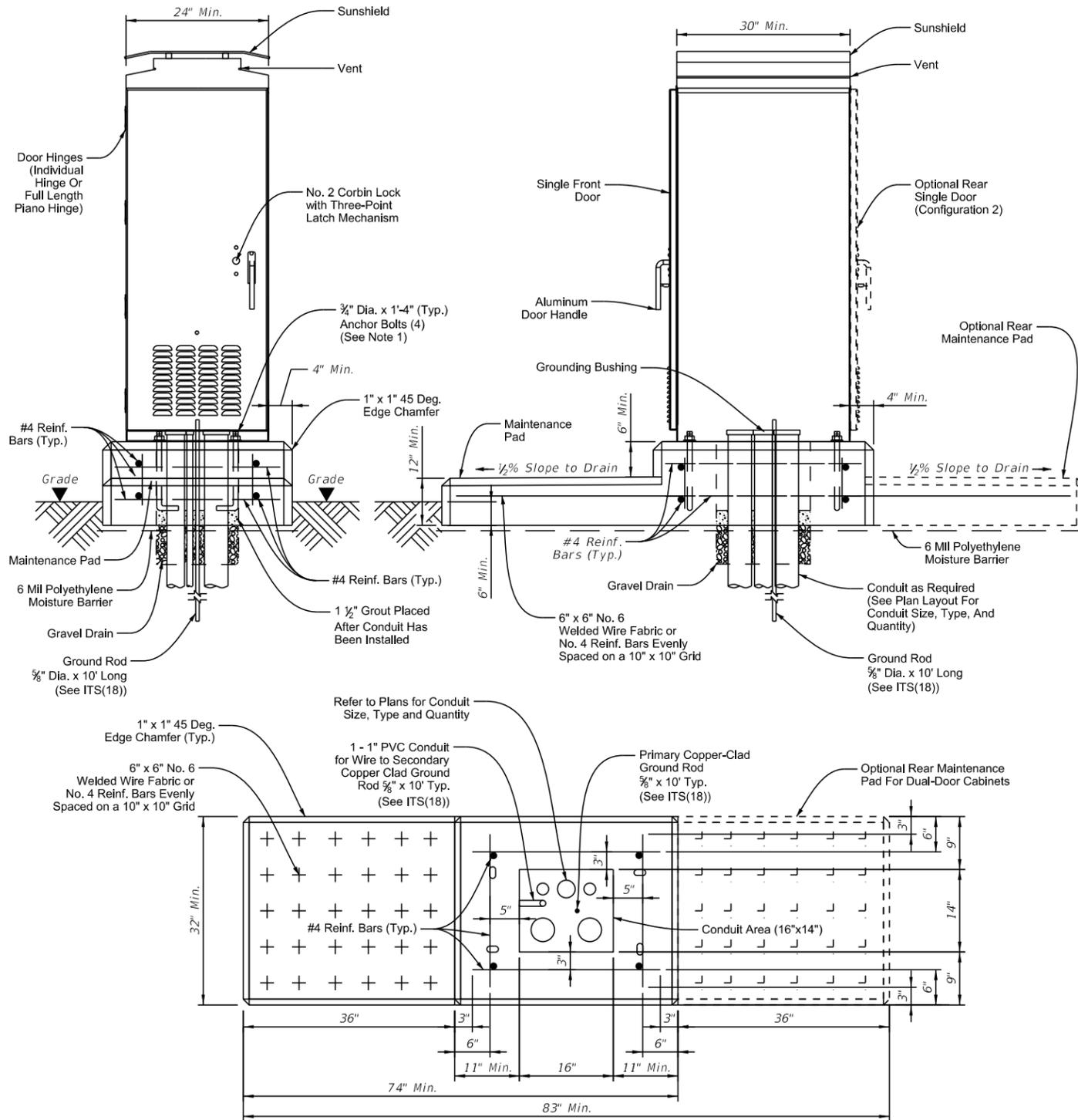
**ITS GROUND MOUNTED
 CABINET ELEVATION
 DETAILS**

ITS(20)-15

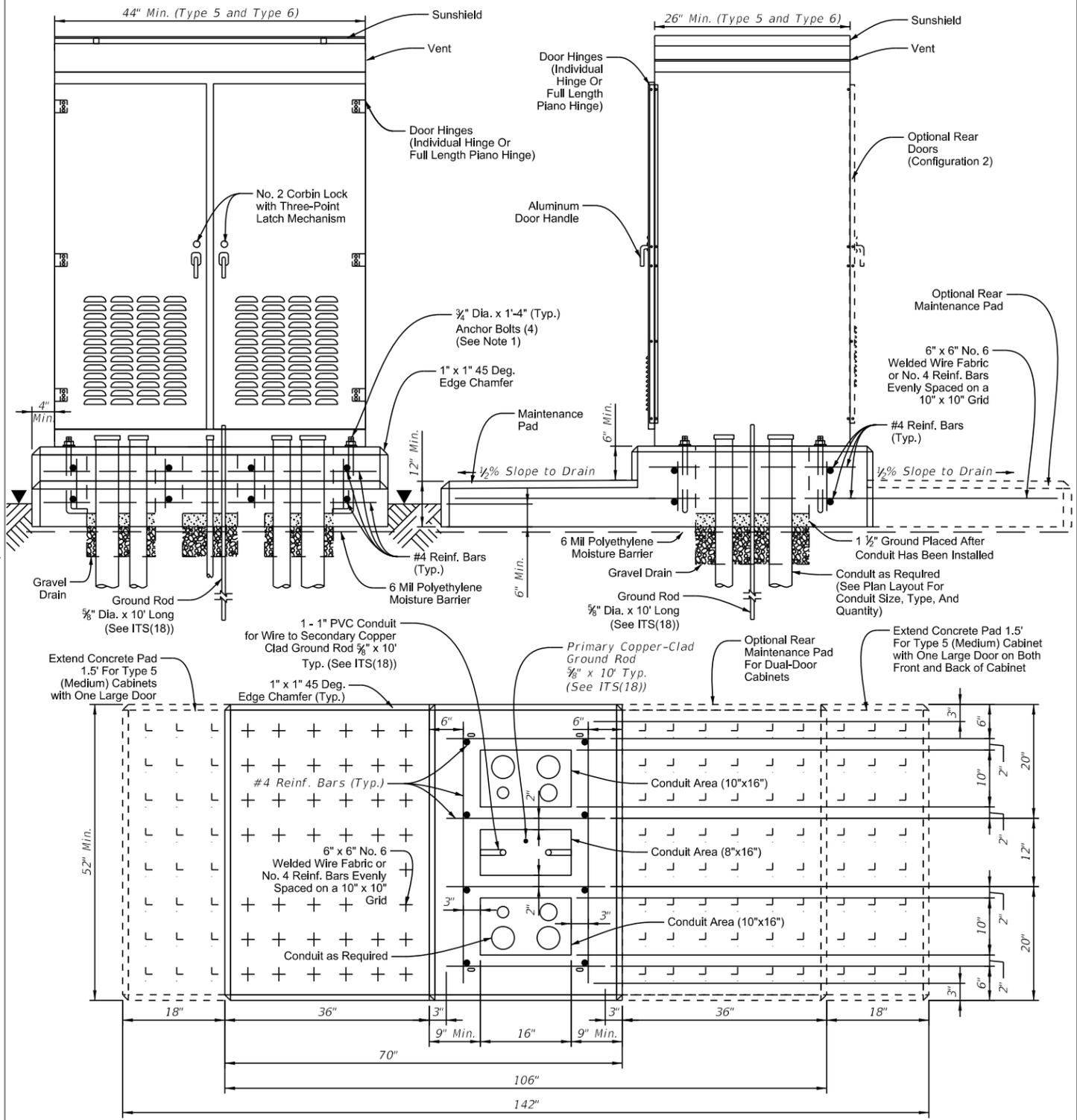
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Type 4 (Small) Cabinet



Type 5 (Medium) & Type 6 (Large) Cabinet

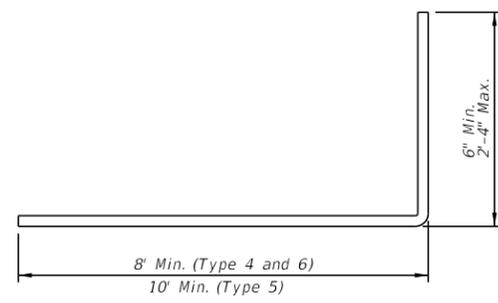
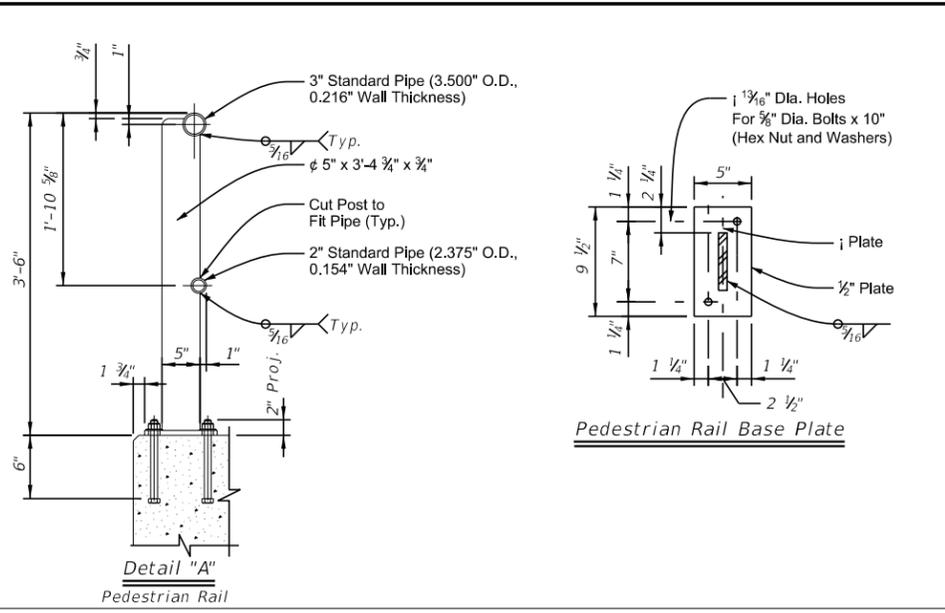
General Notes:

1. Details of anchor bolt location to be furnished by the cabinet manufacturer. Size and length of anchor bolts shown in details may vary by manufacturer.
2. Modify concrete base dimensions to fit required cabinet type.
3. Ensure conduit area has gravel drain, 12" depth, coarse aggregate, grade No. 1.
4. All concrete to be Class "A" in accordance with Item 421.
5. Set the cabinet foundation level with the pavement surface, in unpaved area. The foundation shall be a minimum of 4" above surrounding grade, or as approved by the Engineer.
6. Furnish any additional concrete which may be necessary to stabilize foundation at unusual locations.
7. Foundation will be subsidiary to Special Specification "ITS Ground Mounted Cabinet."
8. Ground cabinet as required in cabinet specifications and as detailed on ITS(18) in accordance with the National Electric Code (NEC).
9. Treat cabinet foundation with moisture sealant.
10. Type 5 cabinet foundation will have a slightly larger foundation than Type 6. See foundation notes on details.
11. Drain pipe shall be screened for drainage portion below foundation in gravel.

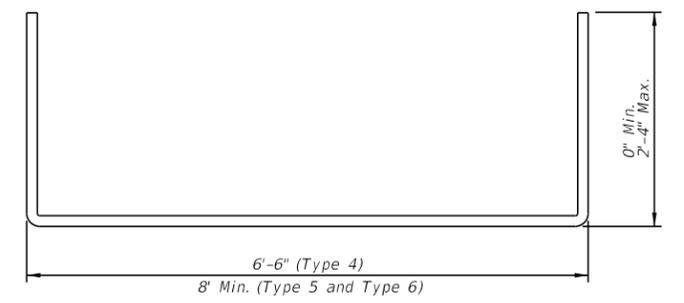
		Traffic Operations Division Standard	
<h2>ITS GROUND MOUNTED CABINET FOUNDATION DETAILS</h2> <h3>ITS(21)-15</h3>			
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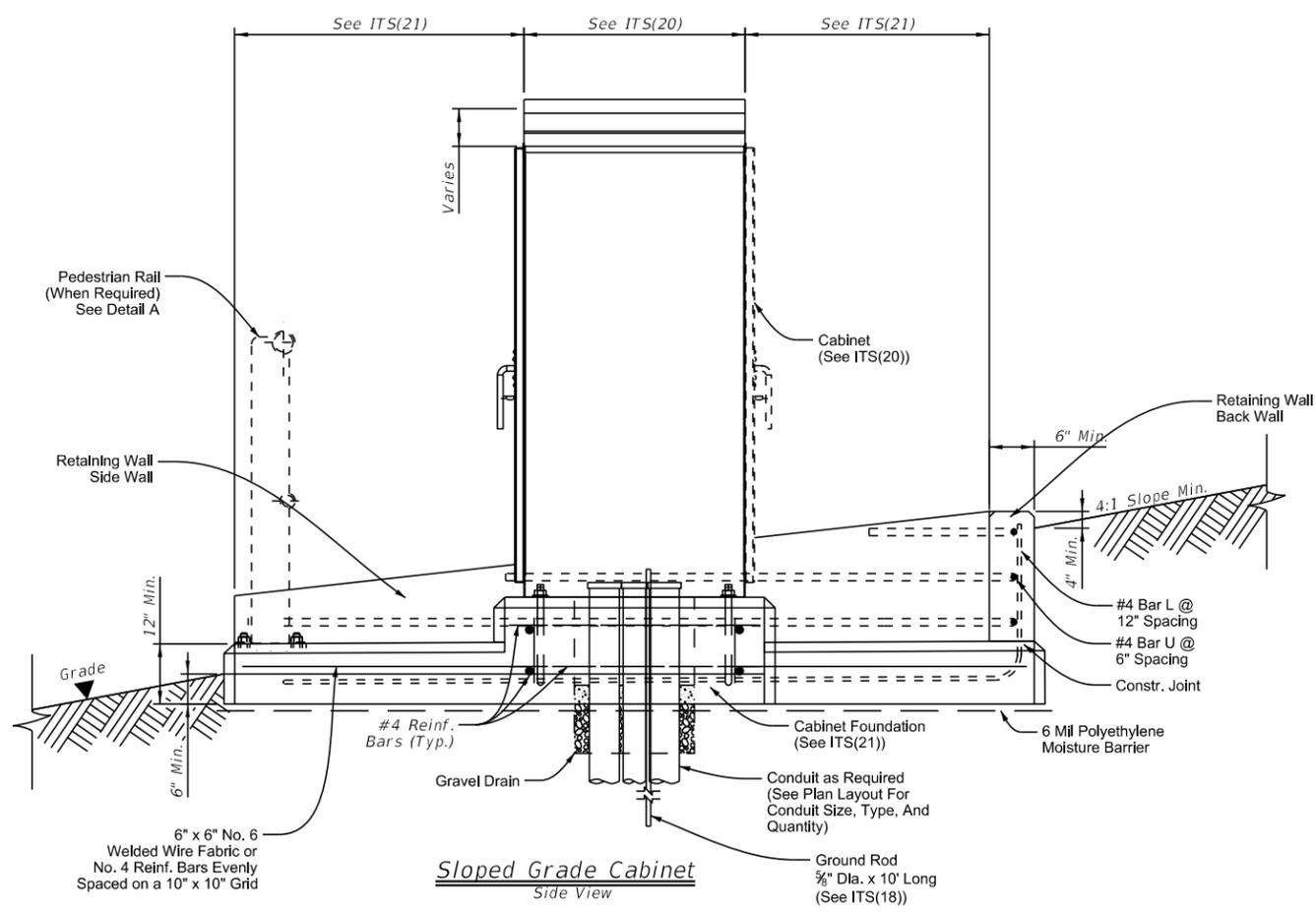
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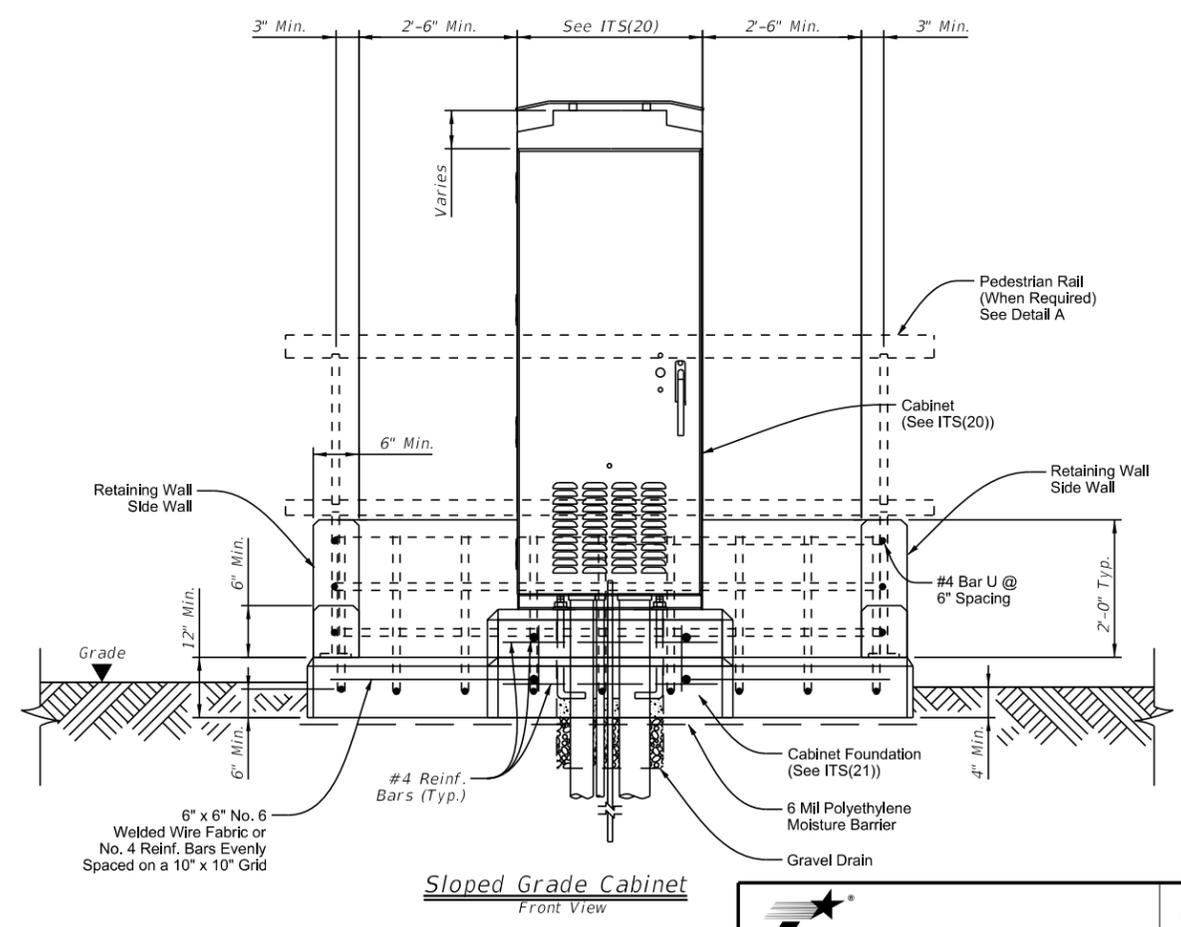
Reinforcement Bar L
 #4 Bar @ 12" Spacing



Reinforcement Bar U
 #4 Bar @ 6" Spacing



Sloped Grade Cabinet
 Side View



Sloped Grade Cabinet
 Front View

General Notes:

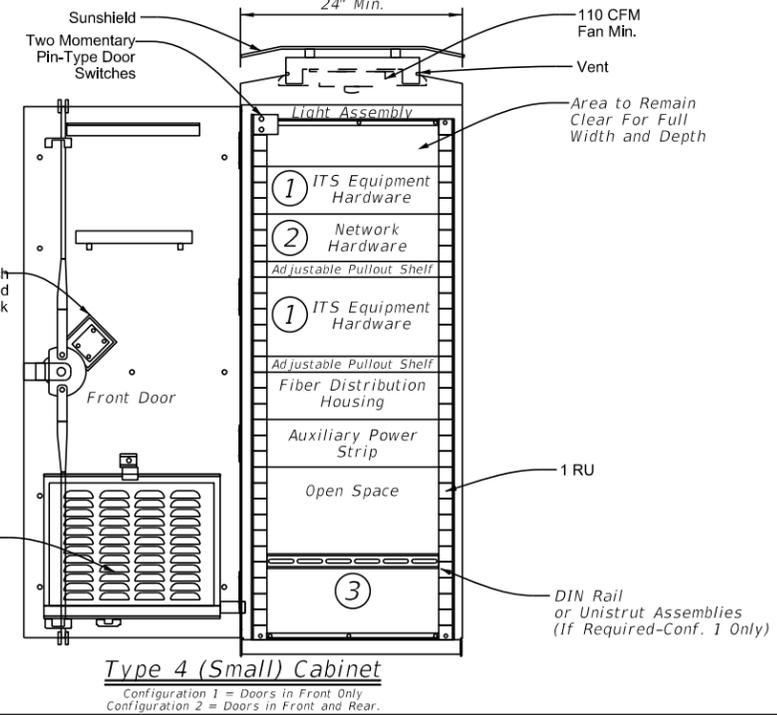
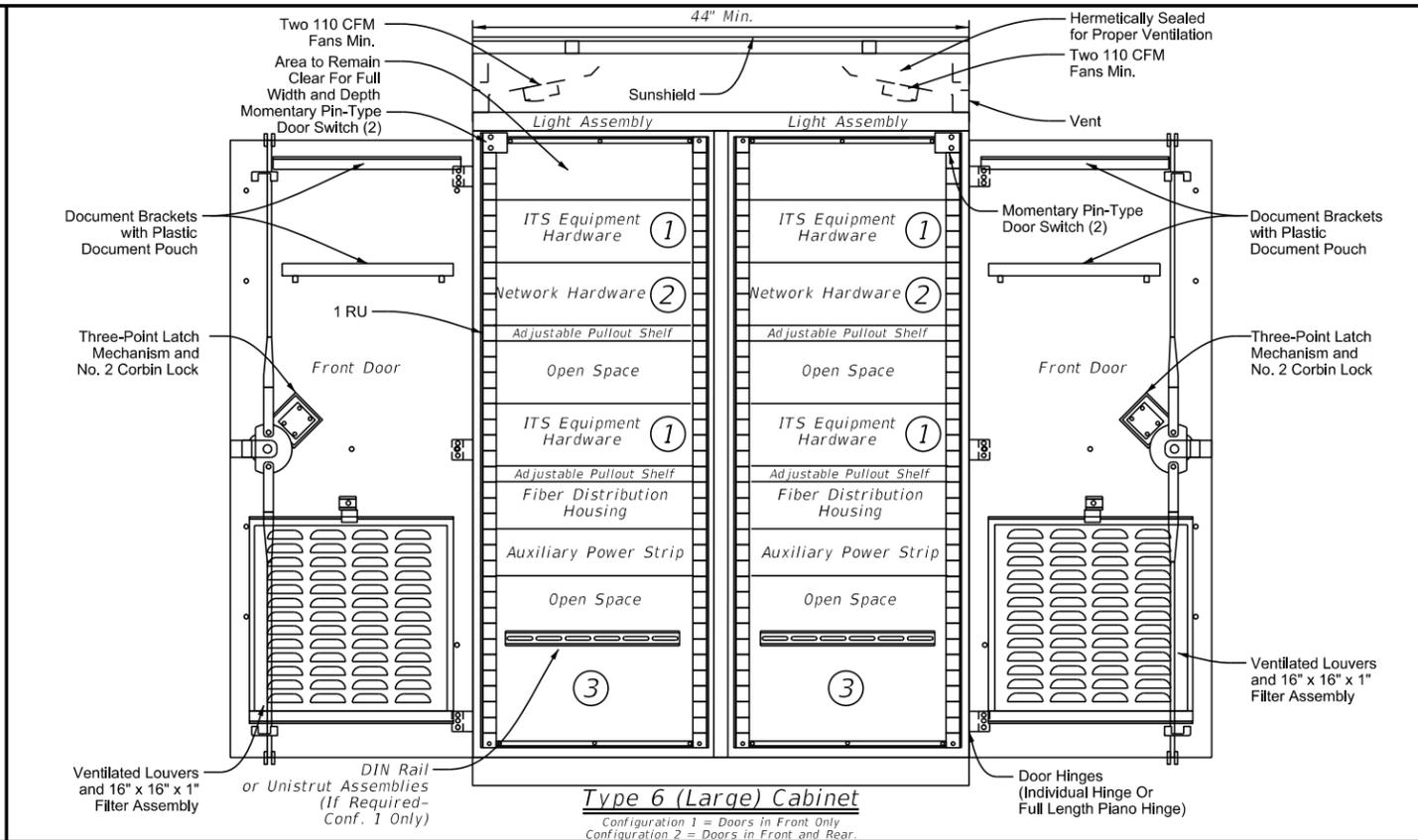
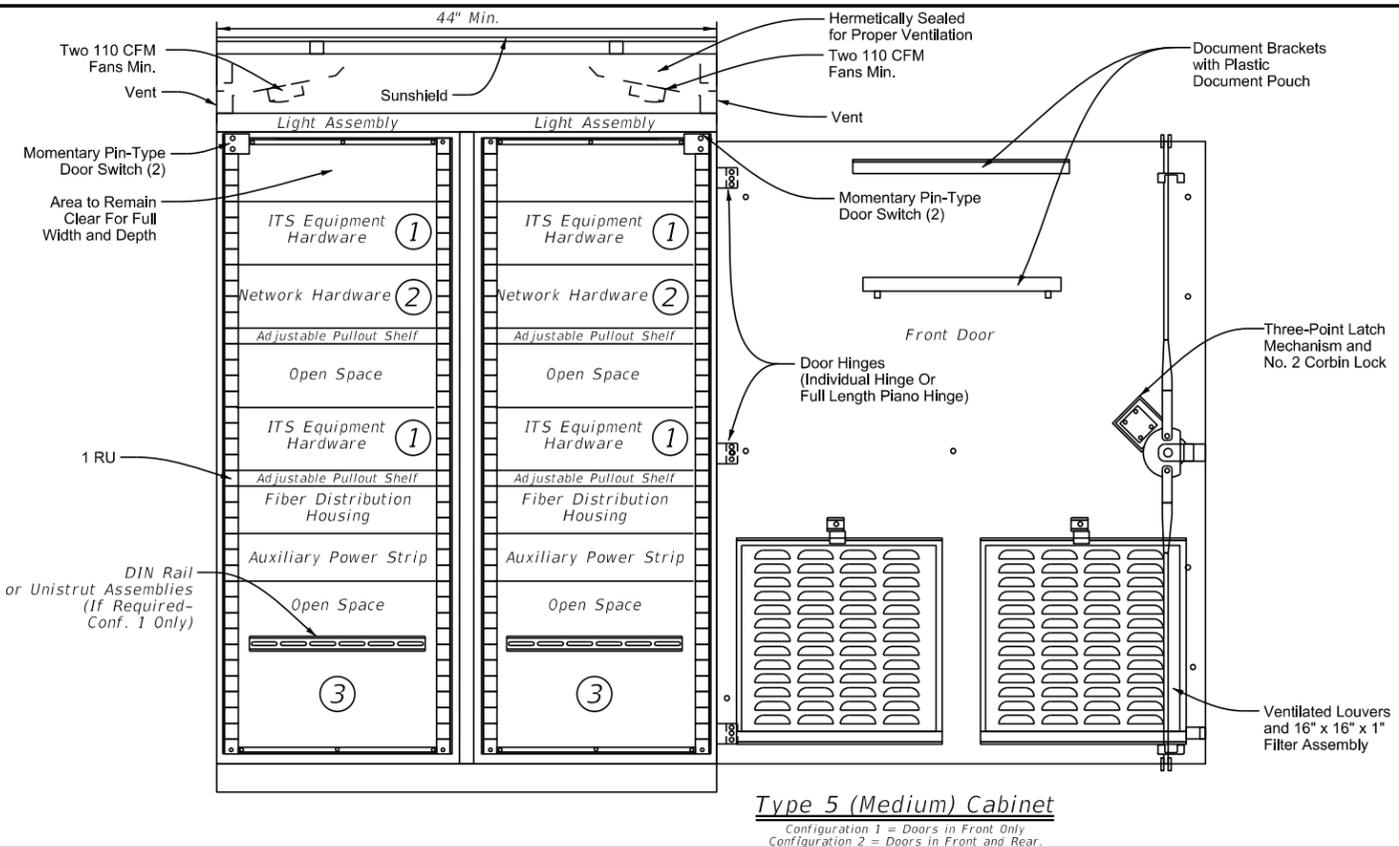
- Details of anchor bolt location to be furnished by the cabinet manufacturer. See ITS(21) for size and type of anchor bolts. May vary by manufacturer.
- Modify concrete base dimensions to fit required cabinet type.
- Ensure conduit area has gravel drain, 12" depth, coarse aggregate, Grade No. 1.
- All concrete to be Class "A" in accordance with Item 421.
- Set the cabinet foundation level with the pavement surface, in unpaved area. The foundation shall be a minimum of 6" above surrounding grade, or as approved by the Engineer.
- Furnish any additional concrete which may be necessary to stabilize foundation at unusual locations.
- Foundation will be considered subsidiary to Special Specification "ITS Ground Mounted Cabinet."
- Ground cabinet as required in cabinet specifications and as per National Electric Code (NEC).
- Treat cabinet foundation with moisture sealant.
- Type 5 cabinet foundation will have a slightly larger foundation than Type 6. See foundation notes on details.
- Drain pipe shall be screened for drainage portion below foundation in gravel.
- Pipe for pipe rail must conform to ASTM A53 GR B, or A500 GR B. Posts and plates must be ASTM A36. All steel components to be galvanized unless otherwise shown in plans.
- Pedestrian rail anchor bolts must be 5/8" diameter ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Threaded rods may be 0.557" minimum diameter with rolled threads. Nuts must conform to A563 requirements.
- Exposed edges of pipe rail and pipe rail posts must be rounded or chamfered to approximately 1/16" by grinding. Provide an end cap at either end of pipe railing.
- Welded wire mesh not required in maintenance pad area when retaining wall rebar is integrated into maintenance pad.

		Traffic Operations Division Standard	
<h2>ITS GROUND MOUNTED CABINET FOUNDATION ON SLOPE DETAILS</h2>			
<h3>ITS(22)-15</h3>			
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Typical Equipment Layout Legend	
Example Equipment	
①	CCTV Interface Panel, Radar Vehicle Sensing Device (RVSD) Equipment, DMS/LCS Controller, Environmental Sensor Station (ESS) Equipment, Bluetooth Equipment, Highway Advisory Radio (HAR), Ramp Meter or Inductive Loop Card Rack, Automatic Vehicle Identification (AVI) Equipment, or ITS Radio Equipment (See General Note 1)
②	Ethernet Switch, Video Encoder, Terminal Server, Fiber Optic Transceivers, or Media Conversion Equipment (See General Note 1)
③	Power Distribution Assembly, Service Entrance Breakers, Primary AC Power, Auxiliary Power Strip, Ground Bus Bar, Surge Protection Equipment, Solar Power System (If Required)

General Notes:

- Layout of hardware equipment and configuration shown is diagrammatic in nature and intended to represent a preferred ground mounted cabinet setup. Hardware needed for each cabinet varies and not all cabinet equipment may be shown. The contractor will be responsible for configuring cabinets with all appropriate ITS hardware and power supplies in accordance with the plans and specifications. The contractor may alter the cabinet configuration shown to maximize space and ensure easy access for maintenance.
- All dimensions are approximate and represent minimum dimensions.
- Provide conduit entrances at the bottom of the cabinet.
- Paid under Special Specification "ITS Ground Mounted Cabinet" (Configuration 1) with single door.
 Paid under Special Specification "ITS Ground Mounted Cabinet" (Configuration 2) for rear door option.
- RU = rack unit.
- Contractor to remove the cabinet removable center support, which ensures cabinet rigidity during shipping, during installation.

Texas Department of Transportation Traffic Operations Division Standard

ITS GROUND MOUNTED CABINET INTERIOR DETAILS

ITS(23)-15

FILE: its(23)-15.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT June 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS	0921	02	368	365 TOLL
	DIST	COUNTY	SHEET NO.	
	PHR	HIDALGO	2326	

Item 1B

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS X
PLANNING COMMITTEE _____
FINANCE COMMITTEE _____
TECHNICAL COMMITTEE _____

AGENDA ITEM 1B
DATE SUBMITTED 07/05/24
MEETING DATE 07/09/24

1. Agenda Item: **RESOLUTION 2024-34 – CONSIDERATION AND APPROVAL OF AWARD OF PROFESSIONAL SERVICE AGREEMENTS WITH ATSER, ALLIANCE GEOTECHNICAL GROUP, INC. AND ECS SOUTHWEST, LLP TO PROVIDE CONSTRUCTION MATERIAL TESTING LAB AND FORENSIC SERVICES OF THE 365 TOLLWAY PROJECT.**

2. Nature of Request: (Brief Overview) Attachments: X Yes No

Consideration and Approval of award of Professional Service Agreements with ATSER, Alliance Geotechnical Group, Inc. and ECS Southwest, LLP to provide Construction Material Testing Lab and Forensic Services of the 365 Tollway Project.

3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy

4. Budgeted: X Yes No N/A

5. Staff Recommendation: **Motion to approve Resolution 2024-34**

6. Program Manager’s Recommendation: Approved Disapproved X None

7. Planning Committee’s Recommendation: Approved Disapproved X None

8. Board Attorney’s Recommendation: Approved Disapproved X None

9. Chief Auditor’s Recommendation: Approved Disapproved None

10. Chief Financial Officer’s Recommendation: X Approved Disapproved None

11. Chief Development Engineer’s Recommendation: Approved Disapproved X None

12. Chief Construction Engineer’s Recommendation: X Approved Disapproved None

13. Executive Director’s Recommendation: X Approved Disapproved None



Memorandum

To: Pilar Rodriguez, P.E
HCRMA, Executive Director

From: Ramon Navarro, IV, P.E., C.F.M.
HCRMA, Chief Construction Engineer

Date: July 5, 2024

Subject: **RESOLUTION 2024-34 – CONSIDERATION AND APPROVAL OF AWARD OF PROFESSIONAL SERVICE AGREEMENTS WITH ATSER, ALLIANCE GEOTECHNICAL GROUP, INC. AND ECS SOUTHWEST, LLP TO PROVIDE CONSTRUCTION MATERIAL TESTING LAB AND FORENSIC SERVICES OF THE 365 TOLLWAY PROJECT.**

GOAL

Consideration and Approval of award of Professional Service Agreements with ATSER, Alliance Geotechnical Group, Inc. and ECS Southwest, LLP to provide Construction Material Testing Lab and Forensic Services of the 365 Tollway Project.

HISTORY

The HCRMA requested Statements of Qualification (SOQ) from Construction Material Testing (CMT) Laboratory Services to support efforts in the development of transportation-related projects of the Hidalgo County Loop Roadway Network (solicitation and requirements attached). On June 14, 2024 the HCRMA received five (5) sealed statements of qualification packets. An internal committee of three HCRMA staff engineers ranked and reviewed each proposal with the following results:

ASTER	1150 Richcrest Dr Houston, TX 77060
Alliance Geotechnical Group, Inc.	3228 Halifax Street Dallas, TX 75247
ECS Southwest LLP	3033 Kellway Drive Suite 110 Carrollton, TX 75006

RECOMMENDATION

Staff recommends the Executive Director be authorized to enter into negotiations with each of the solicited firms and award and distribution of work in accordance to acceptable terms and conditions of assignments.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

BOARD RESOLUTION No. 2024-34

CONSIDERATION AND APPROVAL OF AWARD OF PROFESSIONAL SERVICE AGREEMENTS WITH ATSER, ALLIANCE GEOTECHNICAL GROUP, INC. AND ECS SOUTHWEST, LLP TO PROVIDE CONSTRUCTION MATERIAL TESTING LAB AND FORENSIC SERVICES OF THE 365 TOLLWAY PROJECT.

THIS RESOLUTION is adopted this 9th day of July by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act");

WHEREAS, the Authority is authorized by the Act to address mobility issues in and around Hidalgo County;

WHEREAS, on May 3, 2024, the Authority issued a solicitation for Statements of Qualification for Construction Material Testing Services for the Authority (the "Solicitation"); and

WHEREAS, on June 14, 2024 the Authority received responses to the Solicitation; and

THEREFORE, for Board's consideration and approval is Resolution 2024- 34, requesting authorization be granted to the Executive Director to enter negotiations with each of the qualifying firms and request testing rates and fees for professional services; and distribute work in accordance to acceptable terms and conditions of assignments.;

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board authorizes the Executive Director to enter into negotiations with each of the qualified, firms and further enter into specific terms and conditions via contract with each; and,

Section 3. The Board authorizes the Executive Director to distribute work in accordance to acceptable terms and conditions of assignments on a work order basis.

* * * * *

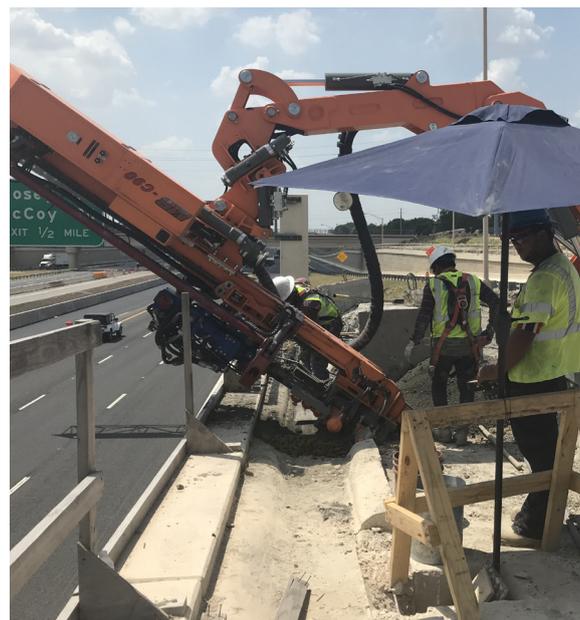
PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING on the 9th day of July, 2024, at which meeting a quorum was present.

S. David Deanda, Jr., Chairman

Juan Carlos Del Ángel, Secretary/Treasurer



SUBMITTED TO:
**Mr. Pilar Rodriguez, P.E.,
Executive Director,
Hidalgo County Regional
Mobility Authority
203 W. Newcombe Avenue
Pharr, Texas 78577**



STATEMENT OF QUALIFICATIONS FOR:
**CONSTRUCTION MATERIALS TESTING LABORATORY
SERVICES AND FORENSIC INVESTIGATION AND
EVALUATION OF IN-PLACE CONSTRUCTION MATERIALS**

365 TOLLWAY PROJECT

June 14, 2024

SUBMITTED BY:





CONSTRUCTION MATERIALS ENGINEERING & TESTING
GEOTECHNICAL ENGINEERING
CONSTRUCTION INSPECTION SERVICES
FORENSIC STUDIES

June 14, 2024

Mr. Pilar Rodriguez, P.E., Executive Director
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, Texas 78577

RE: Statement of Qualifications to perform
Construction Materials Testing Laboratory Services and
Forensic Evaluation of In-Place Construction Materials – 365 Tollway Project
“SOQ – CMT Lab and Forensic Services – 2024-05”

Mr. Rodriguez:

Alliance Geotechnical Group, Inc. (AGG) is pleased to submit our Statement of Qualifications to Hidalgo County Regional Mobility Authority (HCRMA) to provide Construction Materials Testing Laboratory Services and Forensic Evaluation of In-Place Construction Materials for the 365 Tollway Project. AGG has extensive experience and involvement in all aspects of materials testing, inspection, and forensic services. AGG is DBE, MBE, and SBE HUB Certified. AGG’s unique qualifications to serve HCRMA on this project include:

- **DBE, MBE, and SBE Certified** – AGG is certified as a DBE, MBE and SBE company by the NCTRCA, and an MBE company by the National Minority Supplier Development Council.
- **Staff Commitment to this Project** - AGG offers a key, unique quality that truly sets it apart from most other consulting firms. AGG has a very generous profit-sharing program. Each employee shares in the profits of the firm. This company structure allows AGG to hire and maintain the most capable individuals who are then assigned to your project. Each team member operates with a keen sense of responsibility and ownership of their project. They recognize that Client Satisfaction is fundamental. This allows AGG to provide superior performance on each assignment.
- **On-Site Laboratory** – AGG is prepared to provide an on-site laboratory with full time technicians and a Project Manager / Engineer to manage and perform construction materials testing for projects as required for this contract. Alliance offers significant experience in setting up on-site labs and is committed to providing current, calibrated equipment, housed in an environmentally controlled setting to ensure compliance with ASTM E329 and with AASHTO standards. AGG staff understands the requirements of setting up a fully operational on-site laboratory, including coordination for communications, electrical and water supply.

AGG is eager to assist you in accomplishing the goals established for this contract. We are confident in our ability to assist you with construction materials testing professional services and look forward to that opportunity in the near future. If you have any questions, please contact either of the undersigned.

Respectfully submitted,

ALLIANCE GEOTECHNICAL GROUP, INC.

Roger Cisneros

Roger Cisneros, P.E.
Houston Office Manager
rcisneros@aggengr.com

Robert P. Nance
President
rnance@aggengr.com



Dallas • Fort Worth • Frisco • Houston • Huntsville • Longview
9101 Jameel Road, Suite 130 • Houston, Texas 77040
Tel: 713-936-9619 • www.aggengr.com





Executive Summary

Alliance Geotechnical Group, Inc. is pleased to submit this Statement of Qualifications in consideration of providing Construction **Materials Testing Laboratory Services and Forensic Investigation and Evaluation of In-Place Construction Materials** for Hidalgo County Regional Mobility Authority (HCRMA) on the 365 Tollway Project.

Firm History

Alliance Geotechnical Group (AGG) was established in 1999 to provide professional services in the areas of:

- **Construction Materials Engineering & Inspection Services**

- Concrete Inspection & Testing
- Pre-Cast Concrete Inspection & Testing
- Post-Tension Inspection & Testing
- Asphalt Inspection & Testing
- Concrete Floor Flatness Testing
- Roadway Profiling
- Soils Inspection & Testing
- Aggregate Inspection & Testing
- Foundation Piers and Shallow Foundation Inspection and Testing
- Structural Steel Inspection & Testing
- Welding Certification
- Structural Steel Fab Shop Inspection & Testing
- Various Types of Non-Destructive Testing
- Masonry, Reinforcing Steel & Soils ICC Special Inspector
- Concrete Penetrating Radar
- Roofing & Fireproofing Materials Inspection & Testing
- Steel & Concrete X-Ray Testing
- Waterproofing Inspection

- **Forensic Studies**

- **Geotechnical Engineering Services**

- Engineering
- Value Engineering Studies
- Drilling
- Barge Drilling over Water
- Laboratory Services
- Inspection and Testing
- Foundation and Specialty Analysis
- Site Dewatering/Infiltration Prevention
- Roadway/Transportation Studies
- Foundation Pre-stress Investigation
- Value Engineering

AGG is certified by the Texas Board of Professional Engineers, Firm No. F-1970.



AGG is a Texas based corporation. Drawing from the collective experience of Principals and senior staff, AGG offers a background of service to a broad client base, in both the public and private sectors, dating back to 1975. Client groups include:

- Transportation – Highways, Roadways, Bridges, etc.
- Municipalities
- Educational Institutions
- Airports
- State and Local Government Agencies,
- Water / Wastewater Treatment Facilities
- Utilities / Distribution Systems
- Developers,
- Architects,
- Civil Engineers
- Construction Management

On-site Laboratory - AGG is prepared to provide an on-site laboratory with a full time technician to perform construction materials testing for projects as required for this contract. Alliance offers significant experience in setting up on-site labs and is committed to providing current, accurate, equipment, housed in an environmentally controlled setting to ensure compliance with ASTM E329 and to AASHTO standards.



AGG staff understands the requirements of setting up a fully operational on-site laboratory, including coordination for communications, power, and water supply.

AGG recognizes the importance of quality engineering, construction inspection and the value associated with it. AGG offers a comprehensive program of Engineering and Construction Inspection Services to provide the Quality Management & Documentation needed for Quality Construction & Specification Compliance, including:

- ▶ Ability to Provide Multi-Disciplined Services
- ▶ Fast Turnaround and Accurate Report-Ready Results
- ▶ Clear and Timely Communication of Test Results
- ▶ Cost-Effective Services
- ▶ Flexible Laboratory Schedules (24 hours per day and 7 days per week)
- ▶ Ability to Mobilize Personnel & Equipment Resources to meet the Client’s Project needs regardless of size.

AGG offers a key, unique quality that truly sets it apart from most other consulting firms. AGG has a very generous profit sharing program. Each employee shares in the profits of the firm. This company structure allows AGG to hire and retain the most capable engineers, geologists, project managers and engineering technicians who are then assigned to your project. Each team member operates with a keen sense of responsibility and ownership of their project. It means that AGG is able to attract and keep the best employees – individuals who are true partners with a vested interest in the outcome of every project. Through this approach, Client Service moves beyond a business philosophy and becomes the basis of business practice. This manifests into each and every employee assigned to a project being fully committed to that project and the client.

Unique Qualifications - Alliance Geotechnical Group is uniquely qualified to serve HCRMA on this contract. Specific qualifications include:

Extensive Related Experience – The AGG team and its senior staff offer extensive experience with highway and transportation projects in a broad range of project types including Roadways and Highways, Maintenance Facilities, Bridges, Retaining Walls, Sign Structures, Toll Booths, and Drainage Structures. Many of these projects have been located in highly congested areas requiring us to work with numerous other groups in close proximity. AGG’s projects with TxDOT follow the TxDOT Manual of Testing Procedures and meet the requirements of TxDOT’s Quality Assurance Program.

Premier Soils and Construction Materials Laboratory – AGG will provide construction materials testing services from our office located at 9101 Jameel Road in Houston, Texas. AGG’s Houston Laboratory is certified by AASHTO and by A2LA. The lab is equipped for conducting tests of soils, concrete, aggregates, and asphalt. AGG’s laboratory is high-tech and fully accredited with state-of-the-art equipment and is supervised by our highly qualified laboratory manager (Matt Moody) with over 27 years of experience performing and supervising laboratory testing. Mr. Moody has qualified laboratory assistants including geologists and staff engineers. AGG laboratory is certified by AMRL (AASHTO Materials Reference Laboratory); CCRL (Concrete, Cement Reference Laboratory); AASHTO (American Association of State Highway and Transportation Officials); U.S. Army Corps of Engineers (USACE); A2LA, NTA and TxDOT. AGG’s Laboratory is a member of the Texas Council of Engineering Laboratories (TCEL), DFI (Deep Foundations Institute), SAME, ACI, and the Post Tension Institute (PTI). AGG’s laboratory is inspected every 12 to 18 months for **compliance with ASTM E329**, and is an active participant in TxDOT, CCRL, and AASHTO Proficiency Sample Programs. AGG’s modern testing equipment is regularly calibrated and maintained in quality working condition.





AGG's laboratory staff is trained and certified in Construction Materials Testing. All senior technicians are certified by the **American Concrete Institute (ACI)**, the **National Institute of Construction Engineering Technology (NICET)**, special inspectors, and/or the **TxDOT Hot Mix Asphalt Center**.

Unique State-of-the-Art Pavement Testing Equipment – AGG has pavement testing equipment that includes the Dynatest Portable Road Surface Profiler Mark IV (RSP), the SuperPave™ Machine, Pavement Quality Indicator 301 and the PMW Hamburg Machine.

Qualification of Technicians - AGG has identified a team of highly specialized professionals to provide full service in a flexible fashion to cover all the requirements and expectations throughout the life of this contract. AGG technicians are certified by ACI, NICET, and TxDOT. AGG technicians also hold PTI and PCI Certifications.

Communications Systems - Clear and ongoing communication is vital to the success of this effort. To facilitate this communication, all personnel are equipped with internet capable cell phones and tablets. In addition, the field personnel have the ability to immediately contact the Senior Project Manager or Project Engineers for questions and trouble shooting.

Value Engineering Experts - The AGG Engineers are known for their value engineering approaches and ideas. AGG has been successful in achieving significant cost savings for numerous projects over the years while improving the construction schedule and improving the function of the structures and facilities.

Ability to Meet Schedule Demands – The AGG team understands that the ability to meet and maintain project schedules is crucial to each project, especially for municipal projects. In our years of service on engineering projects, AGG Engineers have often been brought in to alleviate a serious concern that threatened a project. Through this experience, the AGG focuses on the need to conduct our activities in a manner that allows the project to continue on time and within budget. Our engineers and project managers are experienced in providing multi-disciplined services in a way as to assist in timely project completions. The AGG team has significant numbers of personnel and equipment resources and is committed to use these resources in order to ensure project completion on schedule. Compliance with schedules and the ability to respond to issues in a timely manner will be the focus of our efforts.

State of the Art QA/QC Program – AGG has developed a thorough QA/QC program that is a vital part of every aspect of the projects and is a major factor in the difference between the way AGG performs projects and many other Geotechnical / CME firms perform their projects. First, the Geotechnical and Construction Materials Engineering Departments work closely together on every project. Second, QA/QC Managers are assigned to each project performed by AGG to review reports and lab results on all foundations and earthwork, as well as concrete and materials testing. This formal system of checks and balances places an engineer on site at the outset of every project. This ensures that technicians, contractors, and subcontractors know precisely the intentions of the design team so that the project is constructed as designed. In addition, all field testing equipment is routinely inspected and calibrated. Logs of the inspections are maintained in the lab and are available for review. AGG will provide the full QA/QC document for review at HCRMA's request.

Availability and Commitment - AGG is immediately available to work on contract for HCRMA. For this contract, principals of AGG will serve in meaningful, hands-on roles to ensure the highest performance possible from the AGG team. Mr. Robert P. Nance, President, will serve as the Principal-in-Charge to ensure corporate resources are made available and that HCRMA's goals and objectives are met. Mr. Michael Roland, P.E., Vice President, will serve as the QA/QC Engineer. The assignment of these senior individuals stands as a commitment by the AGG team to HCRMA for the highest possible quality performance to be delivered.

Statement of Qualifications

- 1) **Firm Name:** Alliance Geotechnical Group, Inc. (AGG)
 - 2) **Contact Person:** Mr. Robert P. Nance, President
Phone: (972) 444-8889
Email: RNance@aggengr.com
 - 3) **Principals:** Mr. Robert P. Nance, President
 Mr. Frank Shirazi, Sr. Vide President
 Mr. Mark J. Farrow, P.E., Sr. Vice President
 Mr. Michael D. Roland, P.E., Vice President
Years in Business: 25 Years
 - 4) **Number of staff by Discipline:**

Professional Engineers:	10
Engineering Technicians:	100
Engineers-in-Training:	5
Graduate Geologists:	4
Drilling Personnel:	8
Project Managers:	13
Administrative:	12
- Appointed Project Manager:** Mr. Roger Cisneros, P.E.

Resumes

Through the assignment of the following individuals, we have sought to provide HCRMA with:

- Senior, Experienced Personnel
- Specialized Geotechnical and Construction Materials Testing and Inspection Expertise
- Senior, Certified Technicians

All individuals proposed for this contract are committed to this effort and will remain on this assignment for its duration. Mr. Roger Cisneros will be the main point of contact working with HCRMA. If for any unforeseen reason an individual is unable to complete this assignment, no replacement will be assigned without the approval of HCRMA. AGG maintains adequate staffing to undertake and execute this contract with HCRMA. Key personnel assigned to this project include:



Robert P. Nance | Principal-In-Charge, Contract Oversight

Proposed Responsibilities – For this project, Mr. Nance will serve as Oversight of Contract and oversight of Quality Assurance effort for AGG. As Principal-In-Charge/Program Manager, Mr. Nance will be responsible for the commitment of firm resources, as well as ensuring that HCRMA’s goals and objectives are met.

Certifications: NICET Level IV – Soil, Concrete & Asphalt, TxDOT – Tex-418-A, 447-A, -PT-2, & 448-A, ACI-Grade 1 and Concrete Technology; Hot Mix Asphalt Level I-

A; CPN Radiation Certified; Radiation Safety Officer; Troxler Radiation Certified, PTI, Level I/II, Floor Flatness Testing, Firestone Roofing Inspector

Experience: Robert Nance has over 32 years experience in construction materials engineering and geotechnical engineering for a broad project involvement with both the public and private sectors.

Experience Includes:

- | | |
|--|--|
| <ul style="list-style-type: none"> • North Texas Tollway Authority • SH 99 Grand Parkway, Houston, Texas • Texas Department of Transportation • City of Dallas IDC • City of Richardson IDC | <ul style="list-style-type: none"> • City of Grand Prairie IDC • City of Irving IDC • Dallas TxDOT IDC • Fort Worth TxDOT IDC • Statewide TxDOT IDC |
|--|--|



Roger Cisneros, P.E. | Construction Materials Project Engineer/Project Manager

Proposed Responsibilities: Mr. Cisneros will provide the day-to-day management and testing activities and provide special inspections as required. He will attend all pre-construction meetings. Mr. Cisneros will also be responsible for signing and sealing any reports that require a professional engineering seal for AGG.

Education: University of Texas / BS Civil Engineering / 1979

Professional Registration: Registered Professional Engineer, Texas, #56115

Experience: Mr. Cisneros offers over 40 years of experience in the design and construction of major transportation facilities. With almost 20 years of prior service at TxDOT, he has worked in both the private and public sector as an owner and consultant. His experience spans all aspects of project delivery including planning, design, right-of-way, utilities, and construction management. Mr. Cisneros has significant experience managing the execution of projects delivered by both traditional and alternative delivery methods including design-build.

Mr. Cisneros offers extensive technical and operational experience in successful design-build project delivery and FHWA requirements in various quality roles. A transportation and Construction Quality Professional with extensive experience in quality control, quality assurance, and owner verification testing and inspection. Mr. Cisneros areas of expertise include the development and implementation of Construction Quality Assurance Programs and development and implementation of Owner Verification Testing and Inspection Plans and Statistical Validations of QA and OV Test Results and Reporting. Project experience includes:

- SH 99 Grand Parkway, Houston, Texas
- Brazoria County Expressway
- TxDOT Horseshoe
- NTTA Chisholm Trail, Section 6
- CTRMA US 290 Manor Expressway Phase 2
- TxDOT El Paso Spur 601 Pass Through Toll Road
- TxDOT SH-130, Segments 1-4
- Williamson County Road Bond Program
- I-35W / Speedway Interchange
- TxDOT Construction Division
- City of Dayton
- Harris County
- City of Huntsville
- City of Conroe



Alan Thomas, SET | Deputy Construction Materials Project Manager

Education/Certifications: NICET Level IV Concrete, NICET Level II Soils, NICET Level I Asphalt, ACI Concrete Strength Testing Technician, PCI Level 1, PTI Level 2 Unbonded PT Inspector, HMAAC, Soils SB 101, 102, 103, 201, 202, HAZMAT, Nuclear Gauge Operator

Proposed Responsibilities: For this project, Mr. Thomas will assist Mr. Cisneros with the day-to-day management and testing activities and provide special inspections as required. Mr. Thomas will attend all pre-construction meetings.

Experience: Mr. Thomas has over 25 years of experience in construction materials inspection and testing. Mr. Thomas works closely with designers, project managers, as well as program managers to assist in the leadership and problem-solving at construction sites. Mr. Thomas performs site observations of earthwork and foundation construction, collects samples, performs tests to monitor compliance, monitor concrete batching and testing procedures with construction specifications. Experience Includes:

- FM 521, Fort Bend County
- FM 1960, Harris County
- FM 565, Chambers County
- FM 105, Orange County
- SH 124, Asphalt
- City of Dallas Public Works Contract
- City of Dallas Elm Fork Phase 1
- City of Dallas DWU Eastside WTP
- City of Dallas DWU Southside WWTP



Michael D. Roland, P.E. | QA/QC Review

Proposed Responsibilities: As Geotechnical Project Manager, Michael will work closely with HCRMA and the design team to ensure that the geotechnical consulting and construction materials engineering services being performed by AGG meet and exceeds the teams expectations. Mr. Roland will also remain fully apprised of all quality assurance/control aspects of this contract to ensure the construction proceeds in accordance with the project plans and specifications.

Education: University of Texas at Arlington / BS Civil Engineering / 1989

Professional Registration: Registered Professional Engineer, Texas, #96043

Experience: Mr. Roland has been a key member of AGG since being established in 1999. Mr. Roland has over 34 years of experience in management, geotechnical consulting, QA/QC, soil exploration for numerous building and project types, specifically including school districts and educational facilities. His duties have included management and QA/QC responsibilities for major projects. Project experience includes:

- Texas Department of Transportation
- City of Dallas IDC
- City of Richardson IDC
- City of Grand Prairie IDC
- TxDOT North Region IDC
- City of Irving IDC
- City of Rowlett IDC
- City of Cedar Hill IDC
- City of DeSoto IDC
- City of Lancaster IDC



Matt Moody, S.E.T. | Laboratory Manager

Proposed Responsibilities: Mr. Moody will be responsible for day-to-day testing, coordination of all laboratory work, supervision and training of personnel and the review of all lab test results.

Certifications: NICET Level IV in Concrete; NICET Level III in Asphalt, NICET Level III in Soils, NICET Level II Geotechnical in Laboratory, NICET Level I Geotechnical in Exploration, NICET Level II Geotechnical in Construction, TxDOT 1A, TxDOT Soils SB 101, TxDOT Soils SB 102,

TxDOT Soils SB 103, TxDOT Soils SB 201, TxDOT Soils SB 202, Radiation Safety, ACI Concrete Strength Testing Technician, ACI Aggregate Testing Technician – Level 1, ACI Concrete Laboratory Testing Technician – Level 1

Experience: Mr. Moody serves as AGG’s Senior Laboratory Manager with 27 years of experience and is responsible for all Geotechnical Testing and Construction Materials Testing. Mr. Moody has been involved in all areas of laboratory testing, concrete, and soils field inspection. His primary responsibilities are performance of day-to-day testing, coordination of laboratory work, supervision and training of personnel, and review of all lab test results. He works closely with senior engineers and department managers to ensure accuracy and compliance with project requirements.



Awards/Special Qualifications and Expertise

- ▶ 2013 and 2016 NCTRCA DBE of the Year Award recognizing the ingenuity, creativity, tenacity, and hard work of local companies that are successfully competing and succeeding in the marketplace
- ▶ 2019 Zeb Strong Pillar Award for Business Excellence – The Arlington Black Chamber of Commerce
- ▶ 2020 Graduate of the North Texas Tollway Authority's Diversity ROAD Program
- ▶ 2021 Dallas Fort Worth Minority Supplier Development Council Supplier of the Year – Class 3
- ▶ 2021 Construction Company of the Year Award – The Arlington Black Chamber of Commerce
- ▶ 2023 DFW Airport Champions of Diversity Award

5) Related Projects

SH-99 Grand Parkway, Segments H, I-1 and I-2, Harris County, Texas



AGG performed construction materials testing on this \$850 million SH-99 Grand Parkway, Segments H, I-1, and I-2 Construction Project. The project spanned 56 miles around northeast Houston within the following Counties: Chambers, Harris, Liberty, and Montgomery.

The construction along the corridor stretched from the US 59 / 69 Interchange to the north and SH 146 in Baytown to the South. Segments H and I-1 are approximately 37.5 miles of a two-lane toll facility with intermittent four-lane sections for passing. Segment I-2 is made up of Segments I-2A and I-2B. Segment I-2A consisted of toll equipment, upgrades, and other improvements for approximately 8.7 miles of an existing four-lane facility from FM 1405 to Interstate 10. Segment I-2B is approximately 6.1 miles of a new four-lane toll facility from SH 146 in Baytown to FM 1405.

The project included 74 bridges and overpasses, 4 million cubic yards of embankment and over 375,000 cubic yards of paving.

Southern Gateway OVTI (DB)



AGG performed owner verification and testing for this project. The project consists of full reconstruction of I-35E to 10 general purpose lanes and 2 reversible non-tolled Express Lanes. The scope includes 22 new bridges, 12 bridge widenings, and retaining walls, operational improvements consisting of collector-distributor roads (north and south bound), direct connectors, and reconstructed ramps and bridge structures as necessary to accommodate the interim improvements. This project was completed in October 2022.

North Texas Tollway Authority PGBT Section XXIII-XXVII Construction Management 4th Lane inside widening, from North of Beltline Road to IH 35E. Contract #04402-PGB-00-CN-PD.



This project consisted of sampling, testing, and reporting material used in construction of pavement, embankment, and structures. AGG performed inspection of portable concrete plant following industry standards (NRMCA) and performed aggregate testing, field densities, soil testing, fresh concrete testing on CRCP, traffic barrier, and drill shaft for sign support. Both moisture treated and lime treated subgrade were required and we performed a lime series to determine that the percent lime needed to stabilize the different materials encountered during construction in each section was sufficient for what was recommended in the plans. We also performed HMAC testing for Type “B” bond breaker and Type C surface mix. Roadway cores for asphalt were tested for field placement density and we performed tests on crushed stone to determine engineering properties and its Triaxial Class for NTTA acceptance.

6) Current Workload of Staff and Laboratory Personnel

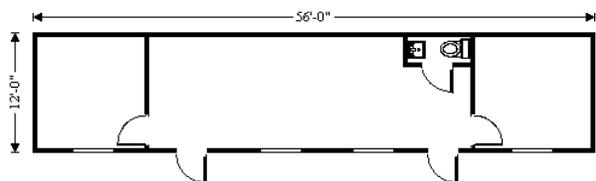
Alliance Geotechnical Group, Inc. (AGG) is readily available to begin work on this contract. AGG anticipated growth in recent years and has increased our staff by 30 percent, allowing us to handle upcoming workloads. AGG has a staff of approximately 100 Engineering Technicians available for this contract. We have the capacity to increase our staff as needed. AGG routinely performs inspections on projects through the assignment of multiple, continuous shifts to accommodate construction phasing, aggressive scheduling, etc., to ensure client schedules are met.

The scheduling of this project will be established according to the needs of HCRMA. AGG maintains the depth of resources to assign full-time inspectors on this contract if required by the scope of work. AGG routinely performs inspections on projects through the assignment of multiple, continuous shifts to accommodate construction phasing, aggressive scheduling, etc., to ensure client schedules are met. AGG has enough qualified, highly skilled engineering technicians to fully serve HCRMA’s needs for this contract.

On-Site Laboratory - AGG could, if necessary, provide current, accurate, equipment, housed in an environmentally controlled setting to ensure compliance with ASTM D3666, D3740, and C1077 (to include test procedure C78 and other ASTM and AASHTO standards). If an on-site laboratory is deemed necessary, AGG will invite AASHTO inspection once the on-site lab is established. Equipment would be calibrated once the on-site lab is fully established. In addition, AGG would have equipment inspected and recalibrated at 6 month intervals.

AGG staff fully understands the requirements of setting up a fully operational on-site laboratory, including coordination for communications, power, and water supply. AGG recently operated an on-site lab established for the Trinity River Authority in Livingston, Texas, and an on-site laboratory was established for the Chisholm Trail Parkway project in Tarrant County. If it is determined an on-site laboratory is necessary, the AGG lab will include the following (at a minimum):

- Temperature-controlled job site trailer of sufficient size to house all testing and administrative equipment. The trailer will include offices for project personnel and room for the testing equipment.
- Concrete curing facility, environmentally controlled to maintain temperatures and humidity specifications for ASTM standards. The curing facility will be a temperature controlled container capable of housing 10 large curing tanks and will be air conditioned and heated.
- Testing equipment to include:
 - A concrete compression machine with load capability in excess of that anticipated for the project
 - A flexural test machine for concrete beams
 - Concrete Cylinder capping equipment
 - Automatic soil compaction machine
 - Atterberg Limit (PI) Machine
 - Ovens
 - Scales and Balances
 - Straightedge Testing Equipment
 - Calipers and micrometers
 - Sieves and Sample Splitters
 - Sieve Shakers
 - Cylinder and Beam Molds
 - Concrete Slump Equipment
 - Concrete Air Meters
 - Standard and Modified Proctor Molds
 - Soil Stabilization Gradation Equipment
 - Appropriate Hot Mix Asphaltic Concrete (HMAC) Physical Testing Equipment
 - Texas Department of Health Approved Radioactive Materials Storage Facility for the storage of Nuclear Moisture Density Gauges



On-Site Environmentally Controlled Curing Facility
8' Wide X 40' Long
Capable Of Storing Up to Ten 3' X 8' Curing Tanks



7) Proposed Subconsultants

AGG proposes to utilize All-Terra Engineering as our subconsultant to provide support services in the area of construction materials testing.

All-Terra Engineering (HUB Subcontractor) All-Terra Engineering is a full-service geotechnical and construction materials engineering/testing lab serving the Greater Houston Area. Established in 2006, All-Terra's senior staff brings over 50 years of experience and knowledge of the locale's construction requirements. The senior staff has served clients including the University of Houston, Texas Southern University, Harris County, City of Houston, HISD, TxDOT, Fort Bend County, City of Sugar Land, Bush Intercontinental Airport, and other government agencies, as well as numerous land developers and contractors.

All-Terra Engineering is eager to provide prompt, cost-effective, and comprehensive geotechnical engineering, construction materials testing, and forensic evaluation services to the Greater Houston Area. All-Terra Engineering prides themselves on their responsive, knowledgeable, and experienced staff of registered engineers, NICET and ACI certified technicians, and accredited laboratory.

8) Disadvantaged Business Enterprise (DBE) and Affirmative Action

As the proud owner of an SBE/MBE/DBE certified firm, Robert P. Nance is committed to maximizing contract opportunities by proactively engaging and building partnerships with other minority firms like ourselves. This commitment is intentional, as it allows our firm to be part of the bigger picture of helping minority firms grow their business and gain a reputation in their area of expertise.

By growing our supplier/contractor base and seeking an optimal balance between the right-size supplier/contractor to the right mix of HUB/D/M/WBE suppliers, we ensure that our projects are populated with diverse firms that can attract and maintain innovation. We showcase these efforts when we perform cohesively as a team and complete the project on-time and within budget. Keeping with the philosophy to endorse minority firms that we know can perform and exceed the owner's expectation, we carry on and "pay it forward" to a system that facilitated in AGG's growth and success. Ensuring the success of firms that started like AGG is our company motto. To that end, AGG has long since formed a successful teaming/mentoring relationship with numerous firms, including the firm on our team for this contract All-Terra Engineering, Inc. We have worked with this firm on numerous major projects across Texas.

We are dedicated to using other HUB/M/WBE firms in meaningful roles on our projects, paying forward the mentoring that has been given to us throughout the years, and will fulfill the HUB participation goal established for this contract using these strategic teaming partnerships.

With AGG's knowledge and familiarity, along with our previous project success, our team will continue to be accountable by communicating all of the required project specifications, objectives, special needs, and mandatory deadlines to our team members. This will allow our team to be an integral unit in performing our services to the best interest of all stakeholders.

Affirmative Action

Alliance Geotechnical Group, Inc. (AGG) is committed to providing equal employment opportunity without regard to race, color, religion, sex, sexual orientation, national origin, age, disability, or any other protected status with respect to recruitment, hiring, upgrades, training, promotion, and other terms and conditions of employment. AGG takes affirmative action in support of this policy to employ and advance in employment individuals over 40 years of age, minorities, women, the handicapped, and veterans. Furthermore, there is no discrimination in hiring, compensation, access to training, promotion, termination, or retirement based on race, class, nationality, religion, age, disability, gender, marital status, sexual orientation, union membership or political affiliation.



AGG does not condone or tolerate the harassment of any employee, including those placed through affirmative action efforts. It is a violation of AGG policy for any employee to engage in any activity that could be deemed as sexual harassment or as any other form of harassment. AGG intends that all matters related to recruitment, hiring, training, compensation, benefits, promotions, upgrades, transfers, and terminations, as well as AGG-sponsored social and recreational programs be free of unlawful discriminatory practices.

9) Litigation

Since our inception, AGG has emphasized quality, honesty, integrity, and competence in every aspect of its operations, and it has paid off. Throughout our entire 25 year history, AGG has never been sued for any reason, or been fired from any contract. AGG has also never filed any claims against any project owner as a result of a contract dispute.

10) Insurance

The table below lists AGG’s insurance coverage. AGG has maintained coverage for professional liability, general liability, auto liability and umbrella liability, and worker’s compensation/employer’s insurance coverage since our formation in 1999. This insurance will be maintained for the duration of the contract.

Type of Insurance	Policy Number	Limits	Expiration	Insurer
Professional Liability	DPX30001629504	\$3,000,000	11/04/2024	Endurance Amer Spec Ins Company
Workers Compensation	UB2R660722	\$1,000,000	11/04/2024	Charter Oak Fire Insurance Company
Employers Liability	UB2R660722	\$1,000,000	11/04/2024	Charter Oak Fire Insurance Company
General Liability	6302R661903	\$2,000,000	11/04/2024	Phoenix Insurance Company
Bodily Injury Liability	6302R661903	\$1,000,000	11/04/2024	Phoenix Insurance Company
Personal Injury Liability	6302R661903	\$1,000,000	11/04/2024	Phoenix Insurance Company
Property Damage Liability	8102R549036	\$1,000,000	11/04/2024	Travelers Indemnity of America
Automobile Liability	8102R549036	\$1,000,000	11/04/2024	Travelers Indemnity of America
Umbrella Liability	CUP2R843803	\$10,000,000	11/04/2024	Travelers Prop Cas Co of America
Contractors Equipment	6302R661903	\$25,000	11/04/2024	Phoenix Insurance Company
Cyber Liability	F16606765002	\$1,000,000	11/04/2024	Ace American Insurance Company

Agent:

Patterson & Associates Insurance Agency, Inc.
 Post Office Box 852037, Richardson, Texas 75085-2037
 Email: certificate@piainsure.com ; Phone: 972-669-2431 Fax: 972-783-0831

11) Bank Reference

Contact Name: Mr. Sam Gunn
Title: Vice President – Lending
Institution: North Dallas Bank & Trust
Address: 12900 Preston Road, Dallas, Texas 75230
Phone: 972.716.7232
Email: sam.gunn@ndbt.com



12) Additional Information

Construction Materials Project Approach

Alliance has a clearly defined Project Management Program which has been refined over the years to facilitate efficient, effective management of each assignment performed. The program is easily tailored to meet the unique requirements of any project.

The project manager is the primary point of contact, reachable at the phone numbers and email shown on Page 1 of this document. The project manager will be available to HCRMA during all project phases, as needed, to ensure that services are efficiently performed.

At the beginning of each inspection assignment, a project folder is prepared for use by field personnel. This folder includes, at a minimum, the following items:

- ▶ Project / contract number, job number and inspection site
- ▶ Contact personnel and phone numbers
- ▶ Testing specifications
- ▶ Report forms (as appropriate)
- ▶ Approved plans

After reviewing the specifications, Alliance' s project manager will consult with the project coordinator to determine staffing assignments. The project coordinator will work closely with the project manager to review reports, handle calls, schedule, review time sheets, and invoicing. In addition, the project manager is available to support the efforts of the Team Leaders as needed.

All testing on this contract will be performed in accordance with the HCRMA Standards, TxDOT' s latest **Manual of Testing Procedures**, and/or **Standard Specifications for Construction of Highways, Streets, and Bridges** and all other applicable policies, guidelines procedures and specifications.

AGG will provide experienced, certified individuals to perform inspections, in accordance with HCRMA' s specifications.

If requested, at the end of each working day, copies of all tests and daily receipts for time charges will be e-mailed to the appropriate office. Written reports will be submitted to the HCRMA within the required timeframe after the completion of all laboratory testing.

Test results that do not meet specifications will be immediately reported, by email, telephone and/or in person to HCRMA's personnel.

HCRMA will be responsible for final decisions regarding rejection of materials, specification interpretations, mix design modification, and will be the final authority in all matters concerning project inspection, material sampling, and testing.

Alliance will furnish HCRMA with copies of daily receipts for time charges, copies of reports, log sheets, and a detailed monthly summary, if requested.

The specific approach taken by Alliance to each work authorization / project issued will be primarily determined by the complexity of the individual assignment. What remains unchanged for each assignment is Alliance' s commitment to HCRMA and the goal to perform detailed testing and investigations that reveal, as well as anticipate, any potential construction issue or concern, thus ensuring the HCRMA the highest quality construction product, provided on time and within budget.



Exchange of Information - Clear and ongoing *communication* is vital to the success of this effort. To facilitate this communication, all personnel are equipped with cell phones. The field personnel have the ability to immediately contact one of the Senior Project Managers and / or geotechnical engineers for questions and trouble shooting. At the completion of each day, the reports are reviewed by one of the Project Managers before being sent to Word Processing. Pier Reports are reviewed by one of Alliance’s geotechnical engineers.

Final reports are reviewed a final time by a Senior Project Manager and then distributed typically within 3 days of the inspection. All reports will typically be submitted within 3 days. The Contractor and HCRMA (if desired) are immediately notified of all non-compliant items either by phone or in person, with a follow-up in writing. All non-compliant items are logged so that a follow-up inspection can take place for final project review by Alliance’s Professional Engineer. **Responsiveness** is a key factor for Alliance. Alliance takes pride in being available to the client twenty-four hours a day, seven days a week. To facilitate this, at the outset of every project, Alliance prepares a “Project Directory” that includes **all** project personnel. This is provided to the in-house Alliance Team as well as e Client and Subconsultants. For the benefit of the client and to undergird our commitment to Availability 24 / 7, all Alliance personnel are listed with:

- ▶ Office Phone Number
- ▶ Home Phone Number
- ▶ Cell Phone Number.

Safety Awareness and Training - It is the policy of Alliance to provide its employees with a workplace free of recognized hazards and to comply with and abide by all governmental regulations, laws, orders, and rules pertaining to workplace safety. Safe work practices take precedence over any other work activity. Every attempt is made to provide employees with equipment in safe working order. Alliance’s Safety Program includes:

- ▶ Background Check
- ▶ Drug-free Environment
- ▶ Random Drug Testing
- ▶ Driving Record Routinely Checked and Maintained
- ▶ Safety Attire includes:
 - Hard Hats
 - Goggles
 - Safety Vest
 - Steel-Toe Boots
 - Routinely Held Safety Meetings
 - All Trucks equipped with GPS

Ability to Deliver Quality Testing On-Time and at the Least Cost to Owner

Cost Control Methods - AGG believes a successful project is completed with the highest quality workmanship and within budget. Cost control measures start with an accurate budget estimate submitted at the beginning of the project. When we submit an estimate for testing, we perform due diligence to get schedules, quantities, and specialty testing needs requirements from the contractor beforehand. By providing an accurate and realistic budget at project start, we can prevent costly change orders later. All monthly invoices include the total monthly billing, total billing for the project to date, and the amount remaining in the budget.

AGG understands that a large part of effective services lies in the ability to maintain compliance with project schedules. Delays cause a variety of problems. In our years of service on a broad range of projects, AGG’s Engineers have often been brought in to alleviate a serious concern that threatened a project. Through this experience, AGG focuses on the need to conduct our activities in a manner that allows the project to continue on time and within budget. We understand the importance of schedule compliance related to construction projects and ongoing facility operations. Our ability to provide multi-disciplined services is an asset in timely project

completion. AGG will mobilize personnel and equipment resources as needed to ensure project completion on schedule.

AGG believes that the most crucial factor in meeting schedules is a collective and individual determination to get the job done. Before the start of all projects, AGG's Project Manager will review the project drawings, construction bid schedule, and quantity sheets to develop a detailed budget for the project. He will routinely check the project budget status during construction and set all projects to alert him at 50% of the billed budget to inform the client that we are over 50% of the project budget.

Additionally, the Project Manager sets an alert at 75% to hold a budget meeting to discuss project/budget status and ensure the appropriate priority is given to any outstanding testing needs. AGG uses our "ElmTree" Project Management Software to provide these notifications when the budget reaches a pre-determined amount. If unforeseen circumstances affect the budget, HCRMA will be notified promptly for direction. The project budget will not be exceeded without written authorization. All invoices are generated by ElmTree and include the current invoice total, as well as the invoiced amount to date and the total remaining budget. Furthermore, we distribute monthly statements as a tool to track project budgets. This tool also helps to compare employee time sheets to actual hours billed for each project. All of our vehicles are equipped with GPS which are used for scheduling efficiency.

Key elements of the ElmTree program include:

- ▶ ElmTree provides our clients the ability to view reports via a customized website set up exclusively for them.
- ▶ Clients are prompted to enter a username and password to access secure reports generated for them.
- ▶ Clients can download and print reports and invoices that have been generated for them. These reports are in a locked PDF format and cannot be altered.
- ▶ When reports are marked signed in ElmTree, they are automatically posted to the website or emailed directly to the client.



ElmTree's features coordinate all the staff and most of the daily operations of the materials testing lab: dispatching and sample entry by technicians, client information and data input by clerical personnel, report reviews, and quality checks by engineers and managers, and invoicing by accounting personnel.

In addition, all reports can be accessed through AGG's website (www.alliancerpts.com). The Contractor is immediately notified of all non-compliant items by phone or in person, with a written follow-up. All non-compliant items are logged so that a follow-up inspection can take place for the final project review by AGG's Project Manager.

Ability to Maintain Ethical Standards and Industry Best Practices as it Pertains to Conflicts of Interest

AGG's basic philosophy of excellence and quality in project delivery and client service is undergirded by its ownership structure. AGG offers a key, unique quality that truly sets it apart from most other consulting firms. AGG has a very generous profit sharing program. Each employee shares in the profits of the firm. This company structure allows AGG to hire and maintain the most capable individuals who are then assigned to your project. Each team member operates with a keen sense of responsibility and ownership of their project. They recognize that Client Satisfaction is fundamental. To clients this means that AGG is able to attract and keep the best employees - individuals who are true partners with a stake in the outcome of every project. AGG recognizes the importance of quality construction inspection and geotechnical engineering and the value associated with it. AGG



offers a comprehensive program of Construction Inspection Services to provide the Quality Management & Documentation needed for Quality Construction & Specification Compliance.

AGG’s team of field and laboratory technicians, senior level personnel and Professional Engineers all have extensive experience performing construction materials engineering services on similar university projects. Our engineering technicians that will work on this contract all will have a minimum of five (5) years experience each. Through this group of highly qualified technicians, AGG’s specialized expertise includes in-place density tests, gradations, moisture/density relationships, Atterberg limits, concrete and masonry inspection and testing, asphalt inspection and testing, reinforcement bar inspection, pier installation inspections, lime and cement stabilization tests, soil suction, and other tests as required. AGG has extensive, experienced staff available, as needed for *your* project. We will commit sufficient personnel to serve HCRMA’s needs, and will have additional staff available in case of unexpected need. In order to ensure effective project management, AGG will assign individual tasks based on the particular expertise of the individuals on this team.

AGG has no conflict of interest on this project.

Technician Certifications

Certification	Number of Resources
ACI Field Grade 1	83
ICC Special Inspectors	22
NICET Level I	25
NICET Level II	13
NICET Level III	7
NICET Level IV	4
TxAPA 1A	23
TxAPA 1B	15
TxAPA Level 2	4
TxAPA SB 101	13
TxAPA SB 102	68
TxAPA SB 103	13
TxAPA SB 201	13
TxAPA SB 202	13
TxDOT Concrete	83

AGG'S AVAILABLE EQUIPMENT

Concrete

- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> • Concrete Beam Tester • Coring Machine with Trailer • Air Meters • Roll-a-Meter | <ul style="list-style-type: none"> • Unit Weight Buckets • Ovens • Maturity Meter • Concrete Vibrator • Unit Weight Measures | <ul style="list-style-type: none"> • Manual Hammers • Concrete Mixers • Outside Micrometer • Rebound Hammer • Windsor Probe Kit | <ul style="list-style-type: none"> • Ferro-Scan Meter • Flex. Beam Machine • Concrete Tile Saw |
|---|---|--|---|

Asphalt

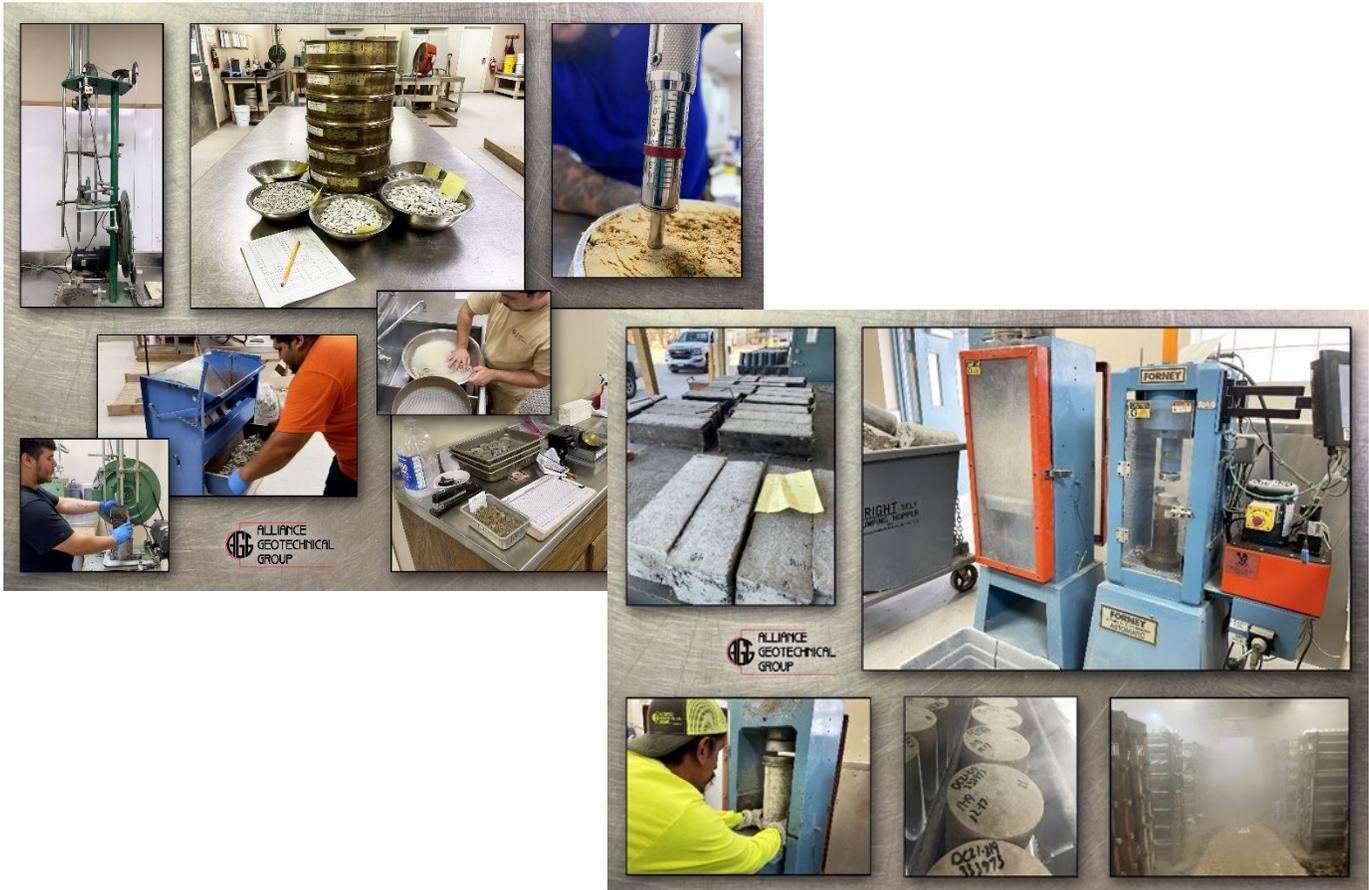
- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> • Texas Gyrotory Press • Marshall Compactor • Lottman Breaking Head • Marshall Stability Head • Marshall Flow Gauge • Constant Temperature Water Bath | <ul style="list-style-type: none"> • Marshall Load Press • Ovens • Vacuum Pump • Sand Equivalent Shaker • Vibro D-Aerator • Troxler AC Content Gauge • Flakiness Index Tester | <ul style="list-style-type: none"> • Elongation Index Tester • Hveem Stabilometer • Gyrotory Compactor • Hamburg Wheel Tracker • Ignition Oven • Marshall Pedestal • Marshall Hammer | <ul style="list-style-type: none"> • Dynatest Portable Road Surface Profiler Mark IV (RSP) • SuperPave™ Machine, Pavement Quality Indicator 380 |
|--|--|---|---|

Soils

- | | | | |
|---|--|--|---|
| <ul style="list-style-type: none"> • Manual Hammers • Digital Balances • Load Master Compression • Load Cells • pH Meter | <ul style="list-style-type: none"> • Soil Compaction Devices • Resistivity Meter • Liquid Limit Devices • Gilson Shaker • Wet Ball Mill Machine | <ul style="list-style-type: none"> • Nuclear MD Gauges • Hydrometers • TxDOT Height Measure • Soil Hydrometer • Direct Shear Machines | <ul style="list-style-type: none"> • Soil Grinder • Ovens • Electronic Balance • Relative Density • Sieves |
|---|--|--|---|

Multiple Uses

- | | | | |
|---|---|--|--|
| <ul style="list-style-type: none"> • Compression Machine • Ovens • Laboratory Digital Balances | <ul style="list-style-type: none"> • Wetball Mill Test Equipment • Field Digital Balances | <ul style="list-style-type: none"> • LA Abrasion Machine • Sulfate Testing Equipment | <ul style="list-style-type: none"> • Asphalt/Concrete Coring Rig • Abrasion Resistance of Concrete (Underwater Method) |
|---|---|--|--|



AGG'S IN-HOUSE CAPABILITIES

Aggregates (Coarse and Fine)

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> • Sampling • Sieve Analysis • Absorption • Specific Gravity • L.A. Abrasion | <ul style="list-style-type: none"> • Sulfate Soundness (Sodium or Magnesium) • THD Triaxial • Stockpile Survey • Organic Impurities | <ul style="list-style-type: none"> • Flakiness Index • Dry Loose Unit Weight • Water Absorption • Fineness Modulus of Aggregate | <ul style="list-style-type: none"> • Concrete Abrasion Test • Decantation • Sand Equivalent • Texas Wet Ball Mill • Flat & Elongated Particles |
|---|---|---|---|

Soils Testing

- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> • Atterberg Limits • Water Content • Sieve Analysis • Organic Content Moisture Density Relationship | <ul style="list-style-type: none"> • Cement Treated Base (CTB) • Field & Lab Gradation • Field Lime Depth Check | <ul style="list-style-type: none"> • Soil Analysis • Resistivity of Soils • Sulfate Content • Lime/PI Series • Hydrometer Analysis | <ul style="list-style-type: none"> • Linear Shrinkage Bar • PH Test • Field C.B.R. • Laboratory C.B.R. • Load Tests |
|--|--|---|--|

Asphaltic Concrete (HMAC)

- | | | | |
|---|--|---|--|
| <ul style="list-style-type: none"> • Mix Design by Marshall Method • Mix Design by TxDOT II Certified • Field Inspection (Lay down) by TxDOT I-B Certified | <ul style="list-style-type: none"> • Plant Inspection and Testing by TxDOT I-A Certified • In-Place Nuclear Density Test • Lab Density • Extraction & Gradation by Ignition Oven | <ul style="list-style-type: none"> • Theoretical Maximum Specific Gravity • Hamburg Wheel Test • Stability, Marshall Hveem | <ul style="list-style-type: none"> • Asphalt Content • Asphalt Coring for Lab Testing • Boil Tests • Indirect Tensile Strength (TSR) • Establish Asphalt Roll Pattern |
|---|--|---|--|

Portland Cement Concrete and Masonry

- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> • Mix Design (Trial Batch) • Mix Design Reviews • Plant Inspection • Pre-Cast Inspection • Post-Tension Inspection & Testing • Concrete & Masonry Field Inspection & Testing • Add Mixtures • Concrete Coring & Testing | <ul style="list-style-type: none"> • Reinforcing Steel Inspection • Mortar Cube Casting & Testing • Grout Prisms Casting & Testing • Concrete Cylinder Casting & Testing (6" x 12" & 4" x 8") • CMU Prism Testing • Floor Moisture Testing | <ul style="list-style-type: none"> • Flexural Strength Casting & Testing (6" x 6" x 20" or 4" x 4" x 14") • Center Point & Third Point Loading • Petrographic Testing • Air Content Test, Slump Test, Temperature • Unit Weight Test | <ul style="list-style-type: none"> • Concrete Shrinkage Test • Splitting Tensile Strength • Windsor Probe • Floor Flatness Analysis • Swiss Hammer/ Schmidt Rebound Hammer • Concrete Penetrating Radar |
|--|--|---|---|

Structural Steel (NDT)

- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> • Welder Qualifications • Visual Inspection (VT) • Ultrasonic Examination (UT) | <ul style="list-style-type: none"> • Magnetic Particle Testing • Torque Testing • Tension Testing | <ul style="list-style-type: none"> • Dye Penetrate Testing • Radiographic Testing (RT) • Paint Thickness Testing | <ul style="list-style-type: none"> • Metal Decking Inspection • Structural Steel Joists Inspection • Tension Testing (Bolts) |
|--|--|---|---|

Retaining Structure Wall Inspection

- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> • Stability Analysis • Back Fill Testing | <ul style="list-style-type: none"> • Tie-Back Testing & Inspection | <ul style="list-style-type: none"> • Seepage Analysis • Material Evaluations | <ul style="list-style-type: none"> • Slope Stability Studies |
|---|---|--|---|

Sprayed-On Fire Proofing Inspection

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> • Thickness Measurement | <ul style="list-style-type: none"> • Density | <ul style="list-style-type: none"> • Bond Test | <ul style="list-style-type: none"> • Adhesive Test |
|---|---|---|---|

Roofing Inspection and Testing

- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> • Comprehensive Visual Observation | <ul style="list-style-type: none"> • Roofing Observation Inspection | <ul style="list-style-type: none"> • Core Cut Analysis | <ul style="list-style-type: none"> • Non-Destructive Moisture Testing |
|--|--|---|--|

Specialty Testing

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> • Sonic Echo / Impulse Response (SE/IR) | <ul style="list-style-type: none"> • Crosshole Sonic (CSL) Testing | <ul style="list-style-type: none"> • Inclinometers | <ul style="list-style-type: none"> • |
|---|---|---|---|

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

Alliance Geotechnical Group, Inc.

2 Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

N/A

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

N/A

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

Yes No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

Yes No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 _____
Signature of vendor doing business with the governmental entity

June 14, 2024

Date



Disadvantaged Business Enterprise (DBE)
Alliance Geotechnical Group, Inc.

Alliance Geotechnical Group, Inc.

has filed with the Agency an Affidavit as defined by NCTRCA Disadvantaged Business Enterprise (DBE) 49 CFR Part 26 and is hereby certified to provide service(s) in the following areas:

NAICS 237310: AIRPORT RUNWAY CONSTRUCTION
NAICS 541330: ENGINEERING CONSULTING SERVICES
NAICS 541330: ENGINEERING DESIGN SERVICES
NAICS 541330: GEOLOGICAL ENGINEERING SERVICES
NAICS 541330: GEOPHYSICAL ENGINEERING SERVICES
NAICS 541380: GEOTECHNICAL TESTING LABORATORIES OR SERVICES
NAICS 541380: SOIL TESTING LABORATORIES OR SERVICES
NAICS 541380: TESTING LABORATORIES AND SERVICES

This Certification commences January 8, 2024 and supersedes any registration or listing previously issued. This certification must be updated annually by submission of an Annual Update Affidavit. At any time there is a change in ownership, control of the firm or operation, notification must be made immediately to the North Central Texas Regional Certification Agency for eligibility evaluation.

Issued Date: January 8, 2024
CERTIFICATION NO. BMDB39145N0125



Certification Administrator



9101 Jameel Road #130
Houston, Texas 77040

EGS SOUTHWEST, LLP: ECS GROUP OF COMPANIES



GEOTECHNICAL



CONSTRUCTION MATERIALS



ENVIRONMENTAL



FACILITIES

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY (HCRMA)

Request for Statement of Qualifications
Construction Material Testing (CMT)
Services and Forensic Investigation and
Evaluation of In-Place Construction
Materials for The 365 Tollway Project

SOQ – CMT Lab and Forensic Services –
2024-05

June 14, 2024, 4:30 PM

POINT OF CONTACT

James Dedrick, PE
CMT Department Manager, Associate Principal

📞 210.528.1430 ✉️ jdedrick@ecslimited.com

🌐 ecslimited.com





June 14, 2024

Hidalgo County Regional Mobility Authority
c/o Ramon Navarro IV, PE, CFM
203 W. Newcombe
Pharr, TX 78577

RE: Response to Request for Statement of Qualifications Construction Material Testing (CMT) Services and Forensic Investigation and Evaluation of In-Place Construction Materials for The 365 Tollway Project

ECS Southwest, LLP (ECS) is pleased to submit the our Statement of Qualifications for Construction Material Testing (CMT) Services and Forensic Investigation and Evaluation of In-Place Construction Materials for The 365 Tollway Project. ECS is a premier provider of geotechnical engineering, construction materials testing, environmental consulting and facilities engineering services. With over 35 years of experience and 400 employees across Texas, ECS is uniquely qualified to provide the Construction Materials Testing Laboratory Services and Forensic Investigation and Evaluation of In-Place Construction Materials required for the 365 Tollway Project.

ECS and our proposed team members have extensive experience with large transportation infrastructure projects for clients such as TxDOT, the North Texas Tollway Authority, and municipalities across Texas. Our experience with roadway, highway, and tollway projects, specifically, will enable us to hit the ground running and lend valuable expertise to this contract. ECS is committed to delivering high quality and cost-effective solutions tailored to the needs of the 365 Tollway Project. We leverage industry-leading technology and digital reporting systems to provide rapid communication and transparency.

ECS is the ideal choice for this contract, leveraging extensive experience both locally and nationally in managing a diverse range of large and small projects in construction materials testing. We have assembled our Statement of Qualifications to demonstrate that we have reviewed the provided documents and carefully crafted our approach to successfully perform services for this contract, benefiting both the HCRMA and ECS.

Our ability to provide the scope of services to meet the HCRMA's expectations is the result of our Point of Contact's experience and an effective project team. Mr. James Dedrick, PE has vast experience providing construction materials testing services and will serve as an extension of HCRMA's staff so that project requirements are met on-time, within budget, and up to the standards set forth by the HCRMA.

ECS is greatly interested in the opportunity to contribute to the success of this infrastructure project. We hope to forge a long-term partnership with HCRMA through the successful delivery of services for the 365 Tollway Project.

Respectfully submitted,
ECS Southwest, LLP

James Dedrick, PE
CMT Department Manager, Associate Principal
210.528.1430 (office)
512.364.1113 (cell)
jdedrick@ecslimited.com

Frank M. Munoz, MBA
Office Manager
210.528.1430 (office)
210.557.0573 (cell)
fmunoz@ecslimited.com

STATEMENT OF QUALIFICATION



1) Firm name, including the addresses of all firm offices identifying in which office the work will be performed

ECS Southwest, LLP

The ECS San Antonio office will be the primary office location. Our Texas locations are listed below.

San Antonio

431 Isom Road, Suite 114
San Antonio, TX 78216
T. 210.528.1430

Corpus Christi

433 Sun Belt Drive, Suite D
Corpus Christi, TX 78408
T. 210.528.1430

Austin

14050 Summit Drive, Suite 101
Austin, TX
T. 512.837.8005

Houston

1000 N. Post Oak Road, Suite 240
Houston, TX 77055
T. 713.955.1980

Dallas (Carrollton)

3033 Kellway Drive, Suite 110
Carrollton, TX 75006
T. 972.392.3222

Fort Worth

2621 White Settlement Road
Fort Worth, TX 76107
T. 862.350.2250

McKinney

1600 Redbud Boulevard
McKinney, TX 75069
T. 469.659.7638

San Marcos

320 Barnes Drive, Suite 109
San Marcos, TX 78666
T. 737.301.3625

Waxahachie

115 Park Place Boulevard, Suite 500,
Waxahachie, TX 75165
T. 972.392.3222

2) Name, position, phone, email, and fax numbers of contact person



We look forward to coordinating our services with your team through our **single point-of-contact, James Dedrick, PE**. Mr. Dedrick serves as CMT Department Manager, Associate Principal for ECS. He is a technical and operational leader with over 30 years of experience in the geotechnical, construction material testing, Special Inspection, and consulting fields. Mr. Dedrick's responsibilities include providing technical expertise and supporting the Materials Testing staff across ECS Southwest.

Contact Information

210.528.1430 (office) | 512.364.1113 (cell) | 214.483.9684 (fax) | jdedrick@ecslimited.com

3) Names of principals in the firm; years firm has been in business

35+ years in business; Founded in 1988, ECS is a leader in geotechnical engineering, construction materials testing, environmental, and facilities consulting. We are currently ranked 64 in Engineering News-Record's Top 500 Design Firms (April 2024) and number two in Zweig Group's 2023 Hot Firms (June 2023). ECS Southwest, LLP is one of the operating entities of the ECS Group of Companies and a Texas-registered engineering firm (No. F-8461).

Mark Zortman, PE	President/Secretary	Garrett Klingensmith, PE	Vice President
Robert Mashewske, PE	Executive Vice President	Joseph Botte, CWI	Vice President
Siddharth Neekhara, PE	Senior Vice President	Sri Dinakaran, PE, BC.GE, DBIA	Vice President
Stephen Geraci, PE CHMM	Senior Vice President	Richard Webb, PE	Vice President
Matthew Olsen, PE	Senior Vice President	Michael Sorgenfrei, PE, PG	Vice President
Vince Elizarde, PE	Vice President	Michael Batuna, PE	Vice President
Jay Jayatilaka, PE	Vice President		



GEOTECHNICAL



MATERIALS TESTING



ENVIRONMENTAL



FACILITIES

STATEMENT OF QUALIFICATION



4) Number of staff by discipline in the office that will be working on project, copies of their resumes and appointed project manager for proposed projects

ECS is structured and operationally prepared to manage and execute the project work, field services, management, and testing services from our local San Antonio office. The management of this group of professionals is geographically based to enable the appropriate staff to be assigned to a particular project based on that project's specific needs. We are not limited by operating areas, which enables local project managers to rely on the technical and managerial expertise of the Southwest Team. Our San Antonio office is regionally supported and reinforced by our Austin, Corpus Christi, Dallas, Fort Worth, Houston, McKinney, San Marcos, and Waxahachie, Texas offices. Further, ECS Southwest, LLP is nationally backed by 2,700+ employees across 90+ offices where experts in many different fields can be accessed as resources or project involvement and laboratory testing can be performed. This structure allows team assignments to be commensurate with the project's needs.

NUMBER OF STAFF BY DISCIPLINE		
SKILL	ECS SOUTHWEST	ECS SAN ANTONIO
Administrative	34	3
Architect	2	1
Construction Materials Manager	8	1
Drillers	1	0
Environmental Scientist	11	2
Field Technicians	214	24
Geologist	5	1
Industrial Hygiene	7	0
Lab Manager/Technician	36	3
Professional Engineer	34	3
Project Manager	58	8

PROFESSIONAL ENGINEERS		
NAME	TITLE	TEXAS PE NO.
Matt Robbins, PE	Vice President, Subsidiary Regional Manager	119352
Robert Mashewske, PE	Senior Vice President, Subsidiary Regional Manager	120975
James Dedrick, PE	CMT Department Manager, Associate Principal	104012
Richard Webb, PE	Geotechnical Principal Engineer	60460
Michael Sorgenfrei, PE, PG	Vice President, Office Manager	99639
Richard Webb, PE	Geotechnical Principal Engineer	60460
Mark Zortman, PE	Subsidiary President	99872
Noel Janacek, PE	Principal	103586
Sri Dinakaran, PE, BGE, DBIA, F.ASCE	Vice President, Sr. Principal Engineer	85434

RESUMES

JAMES R. DEDRICK, PE | POINT OF CONTACT, PROJECT MANAGER, PRINCIPAL ENGINEER



REGISTRATIONS

Professional Engineer: TX
TX PE No. 104012

CERTIFICATIONS

TxDOT: 12.1.1; 12.1.2; 12.3.1; 12.2.5

SKILLS

Construction Materials Testing
Special Inspection
Geotechnical Design Implementation
Problem Solving

EDUCATION

Master of Science, 2012,
Geotechnical Engineering, University
of Wisconsin, Platteville, WI
Bachelor of Science, 1995, Civil
Engineering, University of Illinois at
Urbana-Champaign, Champaign, IL

PROFESSIONAL PROFILE

Mr. Dedrick serves as the CMT Associate Principal. He is a technical and operational leader with over 30 years of experience in the geotechnical, construction material testing, Special Inspection, and consulting fields. Mr. Dedrick's responsibilities include providing technical expertise and supporting the Materials Testing staff across ECS Southwest.

PROJECT EXPERIENCE

TxDOT 183 South Bergstrom Expressway, Austin, TX – The roadway includes three tolled lanes and two-three general purpose non-tolled lanes along US 183 between US 290 and SH71. Mr. Dedrick, the certifying engineer (construction services manager), confirmed soils, concrete, and aggregate test results. Responsible for overall execution of the quality management plan (QMP), this role includes verifying certification of personnel, calibration of equipment, and maintaining QCMP timeframes for completion of test results.

SH 130 Forensic Investigation, Austin, TX – SH130 pavement movements were investigated by sampling lime-treated soils and measuring pH, plasticity, and moisture content to identify possible causes of pavement distress. Mr. Dedrick, the certifying engineer (construction services manager), was responsible for soil test results related to verifying the physical properties of lime-treated soils, including moisture content, plasticity index, and pH testing.

City of Austin Permitting and Development Center, Austin, TX – Mr. Dedrick, as the Construction Services Manager, was responsible for third-party quality verification and the overall execution of construction material testing and Special Inspection services for the \$120,000,000 project, demonstrating his meticulous approach and commitment to quality.

City of Austin, Pearl Retreat Lane, Austin, TX – Mr. Dedrick served as Project Principal for the construction materials observations and testing. He conducted investigations, evaluations and testing of soils, aggregates, structural steel welding and erections, asphaltic concrete and Portland cement concrete, as needed, for roadways, utilities, buildings, parking lots and other engineered structures.

City of Austin, Stassney Lane at Congress Avenue, Austin, TX – Mr. Dedrick provided a senior review for the project. The planned improvements include raised medians for access management, reconfiguration of the intersection, signal phasing changes, enhanced pedestrian and bicycle facilities, and associated signing, stripping, and paving. He also provided a principal review of the observation and testing of structural masonry.

MATTHEW ROBBINS, PE | PRINCIPAL / VICE PRESIDENT



REGISTRATIONS

Professional Engineer: TX
TX PE No. 119352

SKILLS

Slope Stability and Retaining Wall Analysis (Slide 6.0-Rocscience)
Settlement Analysis (Settle3D-Rocscience)
Boring Logs (Gint and AutoCAD)
PTI (Volflo 1.5) Lateral Pier Analysis (LPile) Pavement Design (Darwin & SpectraPave4 Pro)
Map Creation (ArcMap and Google Earth)

EDUCATION

Master of Science, 2014,
Civil Engineering, University of Texas, San Antonio, TX
Bachelor of Science, 2011,
Civil Engineering, Texas A&M University, College Station, TX

MEMBERSHIPS

Texas Council of Engineering Laboratories (TCEL) San Antonio Chapter - President

PROFESSIONAL PROFILE

Mr. Robbins is a Subsidiary Regional Manager serving the Central Texas Region. His experience includes managing geotechnical and construction materials testing operations, developing business development strategies, producing geotechnical reports, managing drilling operations and laboratory testing and managing construction materials testing projects. Mr. Robbins' experience includes various construction projects such as commercial, retail, residential, municipal, infrastructure, industrial and institutional facilities.

PROJECT EXPERIENCE

City of San Antonio Public Works On-Call Contract, San Antonio, TX – Mr. Robbins currently serves as the City of San Antonio Contract Manager. The ECS team currently provides geotechnical and construction materials testing services to the City of San Antonio's project. This contract is on an on-call basis. ECS works in coordination with the city's architectural, engineering, and construction teams to assess site conditions and project quality through technical observations and testing.

USCIS Field Office, Edinburg, TX – Mr. Robbins served as the Project Principal for construction materials observation services for the U.S. Citizenship and Immigration Services field office. ECS' services consisted of providing a Certified Welding Inspector to provide structural steel observations for the subject building.

Department of Veterans Affairs, Administration Building, Corpus Christi, TX – Mr. Robbins served as the Geotechnical Principal Engineer, providing technical oversight of the subsurface exploration, laboratory testing and engineering analysis. The purpose of this study was to provide geotechnical information for the design of foundations for the proposed building, pavements, and associated utilities and appurtenances.

Transportation Department Renovation, San Antonio, TX – ECS provided construction materials testing services on the Southwest Independent School District's Transportation Department Renovation. Mr. Robbins served as the Project Principal. The project involves structural enhancements to the current transport facility, including repairs to the frame and modifications to footings, plus adding a steel canopy at the wash bay. ECS' role focuses on construction materials testing and Special Inspections, covering soils, foundations, concrete, and steel structures. Our qualified team will confirm compliance with project specifications on an as-needed basis.

RENE GONZALES, PE | PRINCIPAL ENGINEER



REGISTRATIONS

Professional Engineer: TX
TX PE No. 86259

CERTIFICATIONS

TxDOT: 12.1.2; 14.1.1; 14.2.1; 14.3.1
ASFE/The Best People on Earth
Fundamentals of
Professional Practice
Radiation Safety Officer

SKILLS

Subsurface Evaluations
Foundation Design and Analysis
Subgrade and Pavement Evaluations
Slope Stability Evaluations
Retaining Wall Design
Reinforced Earth Structures
Probabilistic Site Hazard Analysis
Forensic Evaluations

EDUCATION

Bachelor of Science, 1993,
Civil Engineering, Texas A&M
University, College Station, TX

PROFESSIONAL PROFILE

Mr. Gonzales is a Senior Geotechnical Engineer serving our San Antonio office. He is a registered professional engineer in Texas with over 29 years of experience working on geotechnical and construction materials testing projects. He provides oversight and technical review for Special Inspection services. Mr. Gonzales manages and conducts geotechnical evaluations for schools, retail and office projects, residential developments, multi-story structures, hotels, water and wastewater facilities, hospitals and healthcare facilities. Other project experience includes bridges, storage tanks, pipelines, power plants, site utilities, airports, railroads, military installations, marine near-shore dock facilities and various local, state and federal government projects.

PROJECT EXPERIENCE

City of San Antonio, Ingram Road Intersection Improvements, San Antonio, TX – Mr. Gonzales is serving as the Project Principal for geotechnical services to provide information for the design and reconstruction of two city streets in San Antonio. The two subject streets include Military Drive, approximately one mile, and Ingram Road, approximately 0.6 miles. ECS provided field exploration services, laboratory testing, and design recommendations for the construction of the two subject streets.

City of Floresville, Roadway Reconstruction of Peach Street and F-Street, Floresville, TX – ECS provided a geotechnical evaluation to assist with the design and reconstruction of two existing city streets. The study included soil borings along the existing roadways to assess the existing pavement sections and review the subgrade soils along the alignment. ECS developed design alternatives for use by the project civil engineer to select the most economical design section for use on the project. Mr. Gonzales served as Principal Reviewer for the project.

SH 46 Expansion (Bulverde Road to Smithson Valley Road), Comal County, TX – Mr. Gonzales was the project engineer responsible for a geotechnical evaluation to provide soil borings and pavement cores to assist with the design of a roadway reconstruction project in Comal County, TX. The project included Texas Cone Penetrometer (TCP) testing to identify the depth of limestone and provide information on the interlayered Glen Rose limestone encountered along the alignment.

RICHARD WEBB, PE | PRINCIPAL



REGISTRATIONS

Professional Engineer: TX, CO, AZ
TX PE No. 60460

CERTIFICATIONS

TXDOT: 11.1.1, 12.1.1, 12.1.2,
14.1.1, 14.2.1
Radiation Safety Officer

SKILLS

Subsurface Evaluations
Foundation Design and Analysis
Subgrade and Pavement
Evaluations
Slope Stability Evaluations
Retaining Wall Design
Reinforced Earth Structures
Forensic Evaluations

EDUCATION

Master of Science, 1988, Civil
Engineering, Texas A&M University,
College Station, TX

PROFESSIONAL PROFILE

Mr. Webb is a Principal serving our San Antonio and Austin offices. He is a registered professional engineer in the state of Texas with over 38 years of experience working on construction management, geotechnical and construction materials testing projects. Mr. Webb provides oversight and technical review for geotechnical engineering services and has extensive experience providing analysis and design of shallow and deep foundations; pavement design for new roadways and rehabilitation of existing pavements; value-engineering design solutions for foundations on expansive and soft soils; global stability of natural and engineered slopes, design and analysis of retaining walls and mechanically stabilized earth walls; and geotechnical design.

PROJECT EXPERIENCE

New Bridge, TX-107 (16 ½ Mile Road North), La Villa, TX – Mr. Webb served as the Project Principal for geotechnical services for the design of the foundation for the proposed Linn Tower Project. The subject site was approximately a 2,714 sf lot, and the area for the new proposed building was undeveloped grassy land. The proposed equipment building consisted of a one-story, 220 feet storage building. ECS' field and laboratory testing consisted of drilling a boring 25 feet below the existing surface, subsurface characterization, and groundwater observations.

Project Navy Phase II, 6500 Nita Way, Baytown, TX – The project consists of the construction of an approximate 800,000 sf warehouse with about 20 acres of reinforced Portland cement concrete pavement for truck parking, aprons, and access drives. The building was constructed using concrete tilt-walls supported using drilled shafts. Pavement thicknesses range from 5 inches to 9 inches over the treated subgrade. Mr. Webb reviewed and confirmed concrete compressive strength testing and test results.

Highway 6 Turn Lane & Traffic Signal, Highway 6 & Vicksburg Boulevard, Missouri City, TX – The project consists of adding a right-turn lane off Highway 6 near Vicksburg Boulevard and the installation of a new traffic signal at the intersection of Highway 6 and Vicksburg Boulevard. The turn lane is approximately 70 feet long and consists of a 10-inch reinforced Portland cement concrete pavement on a prepared subgrade. The signal poles are supported on 36-in and 48-inch drilled shafts. He reviewed and confirmed concrete compressive strength testing and test results.

Department of Veteran Affairs, Houston National Cemetery, TX – The project consists of the design and construction of a roadway extension and associated site improvements. ECS collected soil samples at the site for Atterberg Limits (PI Index) testing. Mr. Webb was the principal engineer responsible for soil analysis in the area.

SIDDHARTH NEEKHRA, PE | SENIOR VICE PRESIDENT / QUALITY CONTROL



REGISTRATIONS

Professional Engineer: TX
TX PE No. 102284

CERTIFICATIONS

TXDOT: 14.1.1 Soil Exploration,
14.2.1 Geotechnical Testing, 14.3.1
Transportation Foundation Studies,
14.4.1 Building Foundation Studies

SKILLS

Construction Testing
In Situ and Laboratory Testing
Deep and Shallow Foundations
Geotechnical Design
Reinforced and Pre-Stressed
Concrete Structures
Earth Retention Systems

EDUCATION

Master of Science, 2004,
Civil Engineering, Texas A&M
University, College Station, TX
Bachelor of Engineering, 2001,
Civil Engineering, National Institute
of Technology, Raipur, India

PROFESSIONAL PROFILE

Mr. Neekhra serves as Principal Engineer at the Dallas office of ECS Southwest, LLP. With over 20 years of experience in heavy civil design and construction, Mr. Neekhra has been involved in geotechnical design and construction materials testing for various projects of various sizes. Mr. Neekhra has provided senior consultation, peer review and management on hundreds of projects involving geotechnical engineering and construction testing services for reinforced and pre-stressed concrete structures, structural masonry, structural steel, fireproofing, and asphalt pavement systems.

PROJECT EXPERIENCE

LBJ East Design-Build Project, Dallas County, TX – The project consisted of complete reconstruction and widening of I-635 from US 75 to I-30, including the I-30 Interchange, at approximately 11 miles. When complete, there will be 10 general purpose lanes and two tolled managed lanes. ECS responsibilities included proposal phase geotechnical design of various bridges, retention systems, pavement subgrades, embankments, slopes, and noise walls for the northern 5.7-mile section. The project will also feature the construction of continuous frontage roads and numerous intersection improvements.

Trinity River Authority 40TM-5 Relief Interceptor, DeSoto, TX – The project involved the excavation along the interceptor alignment, installation of the pipeline and supporting and connecting structures, and backfilling of the installed pipeline and structures. Mr. Neekhra served as a principal reviewer for the construction materials testing services for the project. ECS' extensive scope of services includes soils laboratory physical property tests, in-place moisture/density tests on compacted soils, concrete placement observation, field testing, lab compressive strength testing, and pipe infill material sampling and testing, showcasing our comprehensive capabilities in construction materials testing.

FM 455 and IH 35 Improvements, Sanger, TX – ECS completed the subsurface exploration and geotechnical engineering analysis for the proposed widening of FM 455 (Chapman Road.) from FM 2450 to Marion Road, east of IH 35. The approximate length of the improvement is about 5.5 miles. A complete reconstruction of IH 35 overpass at FM 455 is also planned which includes lengthening the bridge and reconstruction of embankment and ramps extending north and south along IH 35 for approximately 800 lf. ECS' integrated services included drilling soil borings, laboratory testing of representative soil samples for pertinent engineering properties and preparation of an engineering report.

NOEL JANACEK, PE | PRINCIPAL REVIEWER



REGISTRATIONS

Professional Engineer: TX, NC, OK,
NV, KY; TX PE No. 103586

CERTIFICATIONS

TxDOT: 11.1.1- Roadway
Construction Management And
Inspection
14.1.1.1- Soil Exploration
14.2.1- Geotechnical Testing
14.3.1- Transportation Foundation
Studies
14.5.1- Evaluation and Design of
Geotechnical Related Structures

SKILLS

Geotechnical Engineering
Project Management
Retaining Wall Analysis
Deep Foundations

EDUCATION

Master of Science, 2012,
Civil Engineering, University of Texas
at Arlington, Arlington, TX
Bachelor of Science, 1999,
Civil Engineering, Texas A&M
University, College Station, TX

PROFESSIONAL PROFILE

Mr. Janacek serves as a Principal for ECS Southwest, LLP. He has extensive experience in geotechnical and structural assessment and design. Mr. Janacek's areas of expertise include retaining wall design/assessment/stabilization/asset management, ground improvement, underpinning, and deep foundation design. He has served as a technical lead in multiple design-build projects, design engineer of record, owner's reviewer, expert witness, and resident engineer for construction.

PROJECT EXPERIENCE

Dallas North Tollway, Frisco, TX – Engineer of record for the assessment and stabilization of 8 MSE walls along the Dallas North Tollway. Designed and led the geotechnical investigation and structural assessment of existing conditions and the development of multiple stabilization alternatives (soil nails, anchors, and drilled shafts) to restore the walls to the design factors of safety using the 2001 FHWA methods of the original contract. Stabilization accounted for construction access and future roadway expansions. Access was limited by service roads at the base of the walls and landscaped slopes on top of the walls. Although the MSE walls have varying failure modes, the firm identified consistent stabilization systems that could be used at each location to optimize schedule, traffic impacts, and construction costs.

President George Bush Turnpike (PGBT) Walls 3L, 3R, 4L, 4R Stabilization, NTTA, Irving, TX – As Engineer of Record, Mr. Janacek provided turnkey investigation; alternatives development; construction plans; and construction support to stabilize the existing walls with minimal interference to tollway operations using post-tensioned soil anchors and soil nails.

Sam Rayburn Tollway 4th Lane Expansion, Frisco, TX – Mr. Janacek was responsible for construction oversight of MSE walls adjacent to the existing SRT mainlanes. He performed submittal reviews for compliance with plans and specifications and provided/oversaw on-site observation during construction.

President George Bush Turnpike Eastern Extension, NTTA, Rowlett/Garland, TX – Mr. Janacek oversaw the design and construction of MSE walls for Sections 28, 29, and 31, and reviewed design and construction for Section 30. He collaborated with geotechnical engineers to optimize wall designs, analyzed wall stability, reviewed various retaining wall designs, and coordinated field support with section managers. Additionally, he evaluated construction quality and managed responses to submittals, RFIs, and change orders.

SRI DINAKARAN, PE, BCGE, DBIA, F.ASCE | PRINCIPAL REVIEWER



REGISTRATIONS

Professional Engineer: TX
TX PE No. 85434

CERTIFICATIONS

Board Certified Geotechnical Engineering (BCGE), Academy of Geo-Professionals, 2016
Design-Build Institute of America (DBIA), 2021
TxDOT Precertification: 14.1.1, 14.2.1, 14.3.1, 14.4.1, 14.5.1

SKILLS

Deep and Shallow Foundations
Geotechnical Investigation
Pavement Design
Construction Materials Testing

EDUCATION

Master of Science, 1994,
Civil Engineering (Geotechnical),
Texas A&M University, College
Station, TX

Bachelor of Science, 1991,
Civil Engineering, South Gujarat
University, Surat, India

PROFESSIONAL PROFILE

Mr. Dinakaran serves as a Senior Principal Engineer for ECS Southwest's Dallas/Fort Worth area. He is a registered professional engineer in the state of Texas with over 30 years of experience working on geotechnical and construction materials testing projects. Mr. Dinakaran's experience includes project management and leading staff across a variety of projects for transportation, municipalities, schools, universities, residential subdivisions, commercial structures, distress investigations, and water/wastewater treatment plants.

PROJECT EXPERIENCE

North Texas Tollway Authority, Multiple Counties, TX – Mr. Dinakaran was the Geotechnical Engineer for Segment I (Sections XV, XVI and XVII) of the President George Bush Turnpike, 190T. The project is a segment of the proposed 26-mile turnpike in Dallas, Collin and Denton counties. The project included 5-highway bridge overpasses or underpasses, 1-railroad bridge underpass, pavement subgrades, barrier plazas and ramp toll plazas. He performed analysis and calculations for the bridge foundation, retaining walls, pavement sections, and pavement subgrade modifications.

North Texas Tollway Authority, FM2499, Denton County, TX – Project Engineer for FM 2499 in Denton County crossing sections of Lake Lewisville. The project is a 4.6-mile extension of the existing roadway beginning near the intersection of FM 407 and continuing to the intersection of FM 2181. The project is a four-lane divided highway and features twin structure bridges crossing Hickory Creek (3,300-length) and Poindexter Branch (2,758-foot length) and a railroad underpass with associated retaining walls. Provided recommendations for drilled shafts, MSE retaining walls, noise walls, and pavement sections.

TxDOT IH 35 and 51st Street Interchange, Austin, TX – Mr. Dinakaran served as the Project Manager. The project consisted of proposed improvements of the southbound lanes of Interstate 35 (IH-35) in the vicinity of the 51st Street interchange in Austin, Texas. The anticipated improvements included widening of the IH-35 southbound main lanes from the US 290 direct connector to just north of the existing Airport Boulevard Bridge; realignment of the existing Southbound frontage road; addition of a southbound collector-distributor road under 51st Street (approximately 1,500 ft. in length); improvement of the southbound frontage road connection to the existing northbound U-turn structure; reversal of the existing Southbound ramps between 51st Street and Airport Boulevard (two ramps); and construction of a multi-lane roundabout on the east side of I-35 at 51st Street and the southbound I-35 frontage road.

FRANK M. MUNOZ, MBA | TASK MANAGER



CERTIFICATIONS

ICC Spray Applied Fire Proofing
Special Inspector
PT Level I and II Unbonded Inspector
FACE Certified Floor Profiler
ACI Certified Field Grade I
Nuclear Density Gauge Operator
Project Manager Certification

SKILLS

CMT Field and Laboratory Testing
Special Inspection Observations
Project Management

EDUCATION

Master of Business Administration,
2021, Texas A&M University,
San Antonio, TX
Bachelor of Business Administration,
2019, Texas A&M University,
San Antonio, TX

PROFESSIONAL PROFILE

Mr. Munoz serves as the Office Manager for the ECS San Antonio office. He has 25 years of laboratory and field experience in the construction materials testing industry. His responsibilities include project oversight and specification conformance and attending pre-construction meetings to facilitate a cost-effective testing program. In addition, he reviews project budgetary tracking and performs new project bid reviews.

PROJECT EXPERIENCE

City of Floresville, Roadway Reconstruction of Peach Street and F-Street, Floresville, TX – ECS provided construction materials testing and observation for a complete roadway reconstruction of Peach Street from 4th Street to Goliad Street and F Street from 3rd Street to State Highway 97. ECS' scope included roadway depth reconstruction for subgrade, flexible base, and asphalt. Mr. Munoz served as Project Manager for the project.

SAWS 8" Public Water Main Loop, San Antonio, TX – ECS provided construction materials testing and observation for quality control on the proposed 8" Public Water Main Loop. The project consisted of the installation of an 8" public water main loop that included excavation, placement, and backfill of the public water main loop. The line included bedding material, initial backfill, testing of secondary soil backfill, asphalt treated base and Type D asphalt. Mr. Munoz served as project manager.

USCIS Field Office, Edinburg, TX – Mr. Munoz served as the Project Manager for construction materials observation services for the U.S. Citizenship and Immigration Services field office. ECS' services consisted of providing a Certified Welding Inspector to provide structural steel observations for the subject building.

Methodist Hospital Cath and OR Expansion, San Antonio, TX – Mr. Munoz is currently serving as the Project Manager for construction materials testing and observation services for the Methodist Hospital Stone Oak expansion. The project consists of a single-story brick expansion supported by a drilled pier foundation system and steel canopy structure. In addition to the building, there is associated site work, including site grading, asphaltic paving, and sidewalks. ECS' current services scope includes earthwork/foundations, cast-in-place concrete, reinforcing steel, masonry, fireproofing, structural steel, and field and laboratory services.

MARC GOMEZ | FIELD SERVICES MANAGER, TASK MANAGER

CERTIFICATIONS

TXDOT: 12.1.1, 12.1.4
ACI Concrete Testing Laboratory
Technician, Grade 1
HMAC Level 1A Plant Mix Specialist
HMAC Level 1B Roadway Specialist
HMAC SB102 Field Specialist
OSHA 10-hour

SKILLS

Construction Materials Testing
Masonry
Plan Grid
Pro Core
Blue Beam
BIM 360

PROFESSIONAL PROFILE

Mr. Gomez serves as Field Services Manager for ECS and is responsible for project management of construction materials testing projects, field and laboratory testing, and observations of construction materials, which includes testing of soils, foundations, reinforced and post-tensioned concrete, masonry, structural steel, fireproofing, and asphalt pavement.

PROJECT EXPERIENCE

Hwy 71 Expansion (12.1.4), Austin, TX – Toll Lane Additions: While on this project near Austin Bergstrom Airport, Mr. Gomez performed concrete placement and Thin Overlay Mix observation.

Various Plants (12.1.1), Various Locations, TX – From county state roads to in-town state roads and various state highways. Mr. Gomez worked with various TxDOT Offices from Corpus Christi District, working out of the Victoria, TX and Three Rivers Plant. San Antonio and Austin District out of the San Marcos, TX Plant. Yoakum District office is out of Victoria Plant, and the TARMAC Plant is in Rosenberg. He worked with multiple mix designs: TY-D, Ty-B, Ty-C, Ty-F, TOM, LRA, SMA, and PFC, along with different compaction methods: Super Pave, TGC, and Marshall.

City of Austin, Highland Park Water and Wastewater Improvements – Phase 2, Austin, TX – ECS provided construction materials observation and testing services for the City of Austin, Highland Park Water and Wastewater Improvements – Phase 2. Our scope of work included earthwork, concrete, and asphalt. Mr. Gomez served as a field technician.

Plum Creek Uptown Phase 1B Infrastructure, Kyle, TX – ECS provided construction materials observation and testing services for the Plum Creek Uptown Phase 1B Infrastructure project in Kyle, Texas. It involved extending two rights of way to connect new multifamily lots within the Plum Creek PUD. This project includes necessary improvements in transportation, grading, drainage, and utilities. Mr. Gomez served as a field technician.

State Highway Improvements for FM 973, Austin, TX – ECS provided construction materials observation and testing services for construction of dual left turn lanes along FM 973. Construction consisted of grading, base, asphalt pavement, embankment, signage and pavement markings. The limits of construction are approximately 942 linear feet. Our scope of services included fill and backfill, lime treated subgrade, cast-in-place concrete, and HMAC testing. Mr. Gomez served as a field technician.

THOMAS HARTNAGEL | ASSISTANT LAB MANAGER

CERTIFICATIONS

TXDOT: 12.1.6
ACI Aggregate Testing Technician,
Level 1
ACI Concrete Testing Laboratory
Technician, Grade 1
TXDOT SB101 Properties Specialist
TXDOT SB102 Field Specialist
TXDOT SB103 Materials Analyst
TXDOT SB201 Moisture Density
Specialist

SKILLS

Asphalt Testing
Concrete and Soil Testing
Geotechnical Reporting
Special Inspections

PROFESSIONAL PROFILE

Mr. Hartnagel currently serves as a Lead Field Technician. He is responsible for testing soils, foundations, concrete and asphalt. Mr. Hartnagel also monitors contractor operations and reviews confirmed drawings, specifications, and geotechnical reports to confirm compliance with project requirements. He is responsible for writing daily reports on the construction materials testing and observation work completed in the field to provide clients, contractors, engineers, architects, and code officials with a clear audit trail for projects.

PROJECT EXPERIENCE

TxDOT Quarries, Central Texas – Multiple TxDOT Quarries: In Base production, Mr. Hartnagel pretested samples for TxDOT for many quarries in Central Texas, such as TCS, Texas Material, Colorado Material, etc. That included running TEX-100-E, TEX-101-E, TEX-104-E, TEX-105-E, TEX-106-E TEX-110-E, TEX-113-E, TEX-116-E, TEX-117-E.

City of Austin, Brentwood W&WW Pipeline Renewal Arcadia Avenue – The project replaced about 9,500 LF of water lines and 6,500 LF of wastewater lines. In addition, approximately 1,200 LF of wastewater lines were rehabilitated. ECS provided construction materials testing services for the project, including earthwork monitoring and testing, concrete and hot-mixed asphalt testing, and observations. Mr. Hartnagel served as a field technician.

Oak Hill Parkway, Austin, TX – ECS provided construction materials observation and testing services for the construction for the Oak Hill Parkway Improvement. It included several upgrades to existing US 290 and Texas 71 mainlanes, new overpasses, flyovers, U-Turn lanes, intersections, bicycle and pedestrian accommodations, an off-site stormwater detention pond, multiple water quality treatment ponds, and new landscapes. Our scope of services included soils tests, concrete and cement tests, field services, and engineering/support services. Mr. Hartnagel served as a field technician.

City of Austin, Emergency Right-of-Way Repairs Austin Hilton, Austin, TX – Emergency Right-Of-Way Repairs Austin Hilton was a mitigation project comprised of a series of piers, in the Right-of-Way, along the perimeter of the existing Austin Hilton Hotel building with concrete beams cast on top of the piers. ECS staffed the project with an Engineer in Training to observe the excavation of drilled shafts, ACI certified technicians to observe reinforcing steel and monitor concrete placements for piers and grade beams, NICET Soils Level II technicians to observe the placement and compaction of select fill soils beneath the voids below the concrete beams, and a Project Manager to attend weekly progress meeting on-site with the construction team. Mr. Hartnagel served as a field technician.

CERTIFICATIONS

AWS CWI (Certified Welding Inspector)

ASNT Level III: Ultrasound, Penetrant, Magnetic Particle, Radiology, and Visual Testing

BILL PARKER, CWI

PATRIOT NDT, LLC - CWI SERVICES

Mr. Parker has been in the Non-Destructive Testing field for 21 years. He has extensive experience in the steel building construction industry and with pipelines, power plants, nuclear plants, and bridge inspections for TxDOT. Mr. Parker holds ASNT Level III certifications in ultrasound, penetrant, magnetic particle, radiation, and visual testing. He also has an AWS CWI (Certified Welding Inspector) certification.

PROJECT EXPERIENCE

- Toyota Motor Manufacturing Plant, San Antonio, TX
- SpaceX, Boca Chica, TX
- AT&T Center, San Antonio, TX
- I-10 410 Interchange, San Antonio, TX
- University of Texas El Paso, El Paso, TX
- Land Bridge at Phil Hardberger Park, San Antonio, TX

CERTIFICATIONS

AWS CWI (Certified Welding Inspector)

City of San Antonio Special Inspector No. 5068

Non-Destructive Weld Evaluation Level III VT, Level II UT, MT, PT

City of Houston Deputy Inspector

Certified HDPE Pip Fusion Inspector

FAA-Certified Repairman AC 65-24 CHG1

EDWARD LEE, CWI

PATRIOT NDT, LLC - CWI SERVICES

Mr. Lee is the Vice President of Patriot NDT, LLC. He is responsible for coordinating and performing third-party structural steel and HVAC piping inspections, quality control audits in accordance with AISC Chapter N and AISC 360, and HVAC piping inspections in accordance with ASME specifications. He also interprets engineering, quality assurance, and quality control instructional codes for structural weld codes (AWS D1.1) and HVAC piping (ASME B31.XX).

PROJECT EXPERIENCE

- Toyota Motor Manufacturing Plant, San Antonio, TX
- AT&T Center, San Antonio, TX
- Amazon, San Antonio, TX
- Northside ISD, San Antonio, TX
- City of Laredo, El Pico Water Plant
- Fort Bliss Army Southern Command HQ, El Paso, TX
- Midland Express Pipeline, Midland, TX

5) List at least three related testing verification projects with TxDOT, USACE, Toll Authority/Regional Mobility Authority Projects of a transportation nature conducted within last five (5) years



SERVICES PROVIDED

Construction Materials Testing

YEAR SERVICES COMPLETED

Ongoing

CLIENT CONTACT

Harrison Walker & Harper
Stoney Johnson
903.517.5955
sjohnson@hwh1887.com

FSH MILITARY WORKING DOG KENNELS

SAN ANTONIO, TEXAS

ECS is currently providing construction materials testing and observation for the proposed FSH Military Working Dog Kennel in San Antonio, TX. Our proposal includes the anticipated construction materials testing for contractor quality control on a call out as needed basis. This project involves the development of a 5,100 sf pre-engineered metal building that is supported by a robust concrete drilled pier and slab on grade foundation system. Key components of the associated site work include the construction of a bleacher foundation, an obstacle course, comprehensive underground utilities, as well as the development of pavement parking and drive sections. Our involvement is specifically tailored to offer contractor quality control through construction materials testing, which will be conducted on a call-out basis as required. Our team is committed to delivering high-quality services and will provide experienced and qualified technical personnel to perform the necessary testing services. These services will be conducted as requested by the onsite representative and will adhere strictly to the project specifications. Our services are designed to align with typical quality control standards set by testing agencies, adhering to ASTM E329 standards. The scope of services includes earthwork/foundations, cast-in-place concrete, reinforcing steel, masonry, fireproofing, and structural steel.



SERVICES PROVIDED

Construction Materials Testing

YEAR SERVICES COMPLETED

2019

CLIENT CONTACT

USACE - Fort Worth District (SWF)
David Dickson
210.673.5169
david.j.dickson@usace.army.mil

ENERGY AEROSPACE OPERATIONS FACILITY (LACKLAND AIR FORCE BASE)

SAN ANTONIO, TEXAS

ECS provided construction materials testing and special observation services for the new operations facility project at Lackland Air Force Base in San Antonio, Texas. This project features the construction of an approximately 21,500 sf facility, designed to enhance operational capacities at the base. The superstructure of the facility is primarily composed of structural steel framing, providing robust support and durability. The exterior walls are constructed from cold-formed metal framing adorned with a brick veneer, offering both aesthetic appeal and structural integrity. A significant foundation component is the 30-inch thick cast-in-place steel-reinforced concrete mat foundation, designed to confirm stability and longevity. The scope of services included foundations, reinforcing steel, cast-in-place concrete, pre-cast concrete panels, masonry (screen wall), fill and backfill for the building pad.



SERVICES PROVIDED

Geotechnical

YEAR SERVICES COMPLETED

2021

CLIENT CONTACT

Villagomez Engineering Company
Jose Villagomez
210.724.0816
jlvillagomez@
villagomezengineering.com

LAREDO BORDER PATROL CHECKPOINT

LAREDO, TEXAS

ECS completed the subsurface exploration, laboratory testing, and geotechnical engineering analyses for the Laredo Checkpoint facility upgrade project. The primary focus of this project is to enhance the existing Laredo Checkpoint facility. Proposed improvements include the upgrading and maintenance of the on-site administration facility and the widening of existing concrete pavements at the off-ramps and on-ramps to IH-35. Additionally, the existing canopy system will be extended to accommodate new traffic lanes, aligning with the existing construction. Further enhancements will involve the creation of new site parking and a secure impound parking lot for improved operational efficiency. Our comprehensive report details the procedures and findings from our subsurface exploration and laboratory testing initiatives. The report provides strategic recommendations for the development of foundations, earthworks, and parking/drive areas tailored to the proposed upgrades.



SERVICES PROVIDED

Construction Materials Testing

YEAR SERVICES COMPLETED

Ongoing

CLIENT CONTACT

Colorado River Constructors
Sudeep Mukherjee
737.226.6431
Sudeep.Mukherjee@crcjv.com

QC TESTING FOR TXDOT OAK HILL PARKWAY

AUSTIN, TEXAS

ECS is currently providing quality control testing services during the construction phase of the TxDOT Oak Hill Parkway project. The Oak Hill Parkway Improvement will include several upgrades to existing US 290 and Texas 71 mainlanes, new overpasses, flyovers, U-Turn lanes, intersections, bicycle and pedestrian accommodations, an offsite stormwater detention pond, multiple water quality treatment ponds, and new landscapes. Our scope of services includes bonded PT observation and testing, concrete and grout trial batch mix verification, qualification testing of aggregates related to alkali silica reaction, proof load testing, concrete mix properties and strength verification, drilled pier observation and testing, hot mix asphalt mix verification, proctor and density testing. We are performing quality control testing of soils, aggregates, and concrete for the TxDOT project. ECS also performs specialty inspections utilizing PTI Level II, ACI, and SB102-certified inspection personnel.

6) Current workload of the staff and laboratory personnel that would be responsible for the project(s)

Our experience managing multiple projects similar to this enables us to successfully execute even the most complex geotechnical and materials testing contracts. This has given us a broad background using a multitude of techniques and has provided our team with a solid understanding of project management and delivery. Our ability to generate timely field reports through our wireless and paperless technology provides significant advantages to the HCRMA and helps the project team respond quickly and appropriately to field conditions and project requirements. Our in-house developed suite of software assists in effectively managing a number of simultaneously active projects. The systems provide real time data on project performance indicators and notify project team members of outstanding items or items that require attention to meet response time and project deadlines. **Our ECS San Antonio office is currently managing 220+ active projects with budgets ranging from a few hundred dollars to over \$300 thousand, each meeting project deadlines and budgets on a daily basis.**

Construction Services: Seasonal weather conditions have considerable impact on staffing requirements, with summer months the months of greatest construction activity. Our local office staff of technical personnel absorb the demands of periods of greatest construction activity. Technicians from other ECS offices in Texas are able to assist in periods of high demand in a seamless manner. In this regard, we would not expect to become overtaxed on large projects. ECS also uses internal programs to track anticipated activity of our construction testing projects and project staffing requirements to accommodate hiring practices.

ECS' CURRENT PROJECTS	
PROJECT NAME	SERVICE
IH-35 NEX South Project 60713630, San Antonio, TX	Geotechnical
DCP-005 Texas Infrastructure for Del Rio Sector, Quemado, TX	Materials Testing
City of San Antonio, Summer Fest (N. Foster to Old Seguin), San Antonio, TX	Materials Testing
City of San Antonio, Mystic Sunrise(Binz Engleman-Jackies Farm), San Antonio, TX	Materials Testing
City of San Antonio, Wyanoke Dr. (Burr Rd. to Raphail Dr.), San Antonio, TX	Materials Testing
City of San Antonio, E. Hathaway (Raphail Dr. to Cul-de-sac), San Antonio, TX	Materials Testing
City of San Antonio, Misty Springs (Summer Fest to Spring Sun), San Antonio, TX	Materials Testing
City of San Antonio, Sunrise Pass (Glacier Sun-Cactus Sun) ARPA, San Antonio, TX	Materials Testing
City of San Antonio, Las Puertas (Cul-de-sac to Las Puertas), San Antonio, TX	Materials Testing
City of San Antonio, New Valley Hi Dr (SW LP 410-Ray Ellison), San Antonio, TX	Materials Testing
City of San Antonio, Medford Dr. (Burr Rd. to E. Hathaway), San Antonio, TX	Materials Testing
City of San Antonio, Tres Caminos (Hunt Ln to Las Puertas), San Antonio, TX	Materials Testing
City of San Antonio, Fire Sun (Glacier Sun to Cul de sac) ARPA, San Antonio, TX	Materials Testing
City of San Antonio, W. Brandon (W. Hathaway to E. Brandon), San Antonio, TX	Materials Testing
City of San Antonio, Concio (Dead-end to Dead-end), San Antonio, TX	Materials Testing
City of San Antonio, W Gramercy PI (Buckeye to IH10W Access Rd), San Antonio, TX	Materials Testing
City of San Antonio, Jamaica Dr. (Horal St. to Tarasco St.), San Antonio, TX	Materials Testing
City of San Antonio, Downing Dr. (W. Hathaway to E. Hathaway), San Antonio, TX	Materials Testing
City of San Antonio, Hickory Trail (Honey Tree Ln-Boling Brook), San Antonio, TX	Materials Testing
City of San Antonio, W. Hathaway (Burr Rd. to Dead End), San Antonio, TX	Materials Testing
City of San Antonio, Cactus Sun (Winter Sunrise to Mystic Sun), San Antonio, TX	Materials Testing
City of San Antonio, Threadneedle (Ray Ellison Blvd-Cul de sac), San Antonio, TX	Materials Testing

STATEMENT OF QUALIFICATION



PROJECT NAME	SERVICE
City of San Antonio, Remuda (Harness Ln to Big Rock Dr), San Antonio, TX	Materials Testing
City of San Antonio, E. Brandon (Medford to E. Hathaway), San Antonio, TX	Materials Testing
City of San Antonio, Santiago St (SW 19th St to S Hamilton Ave), San Antonio, TX	Materials Testing
City of San Antonio, Winter Sunrise (Cactus Sun to Glacier Sun), San Antonio, TX	Materials Testing
City of San Antonio, Esma (Siluria to Esma), San Antonio, TX	Materials Testing
City of San Antonio, Prairie Sun (Glacier Sun-Cul de sac) ARPA, San Antonio, TX	Materials Testing
City of San Antonio, Colonial Sun (Glacier Sun-Cul de sac) ARPA, San Antonio, TX	Materials Testing
City of San Antonio, Sun Harbor (Glacier Sun-Hidden Sunris)ARPA, San Antonio, TX	Materials Testing
City of San Antonio, Centro Hermosa(Tres Caminos-Centro Grande), San Antonio, TX	Materials Testing
City of San Antonio, Centro Grande(Centro Hermosa-Tres Caminos), San Antonio, TX	Materials Testing
City of San Antonio, Price (Carmel St to Holder Ave), San Antonio, TX	Materials Testing
City of San Antonio, Centro Bonito (Centro Hermosa-C. Hermosa), San Antonio, TX	Materials Testing
City of San Antonio, Dannelly Fld. (Liberty Island-McGowen Fld), San Antonio, TX	Materials Testing
City of San Antonio, Raphail Dr. (Burr Rd. to Harry Wurzbach), San Antonio, TX	Materials Testing
City of San Antonio, Burning Sunrise-Mystic Sunrise-Sunrise Crk, San Antonio, TX	Materials Testing
City of San Antonio, Castle Bridge Dr. (Midcrown to Cul de sac), San Antonio, TX	Materials Testing
City of San Antonio, Sunrise Bluff (Glacier Sun-Cul de sac)ARPA, San Antonio, TX	Materials Testing
City of San Antonio, Threadneedle (SW LP 410 to Ravenswood), San Antonio, TX	Materials Testing
City of San Antonio, Dakota Sun (Cactus Sun to Cul de Sac), San Antonio, TX	Materials Testing
City of San Antonio, S Hamilton (W Martin to W Travis), San Antonio, TX	Materials Testing
City of San Antonio, Lagoon (Niagara to Cul de sac), San Antonio, TX	Materials Testing
City of San Antonio, Castle Mt. (Castle Bridge to Cul de sac), San Antonio, TX	Materials Testing
City of San Antonio, W. Huisache (Morning Glory to Manor), San Antonio, TX	Materials Testing
RGV Barrier - Starr County, Rio Grande City, TX	Geotechnical
USCG Station Port O'Connor - Rebuild, Port O'Connor, TX	Materials Testing
FSH Military Working Dog Kennels, San Antonio, TX	Materials Testing
JBSA FSH CDC B-2530, San Antonio, TX	Materials Testing
JBSA Turf Field Improvements, San Antonio, TX	Geotechnical
N. Padre Island Tower Foundations, Corpus Christi, TX	Geotechnical
558th Flying Training Squadron B473, Universal City, TX	Materials Testing
Geronimo Creek WWTP Exp/ Walnut Branch WWTP Abandonment, Seguin, TX	Materials Testing
SAWS Randolph Pump Station Improvements, San Antonio, TX	Materials Testing
SAWS Echtle Off-site Sewer Extension, San Antonio, TX	Materials Testing
Fox Falls Off-site Gravity Sewer, Boerne, TX	Materials Testing
SAWS Artesia Pump Station Improvements, San Antonio, TX	Materials Testing
SAWS Randolph Pump Station Improv. Additional Services, San Antonio, TX	Materials Testing

STATEMENT OF QUALIFICATION

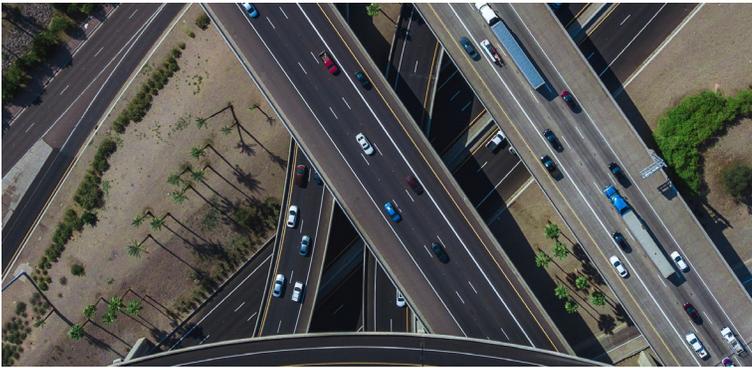


PROJECT NAME	SERVICE
Kingsville Tower Foundations, Corpus Christi, TX	Geotechnical
Seguin Lift Station, Seguin, TX	Geotechnical
TVT TX1043 New Braunfels HS Site, New Braunfels, TX	Geotechnical
Valvoline, Mission, TX	Geotechnical
AutoZone #5761, Edinburg, TX	Materials Testing
Valvoline, McAllen, TX	Geotechnical
7-Eleven, McAllen, TX	Geotechnical
2024 Kimco Coring Las Tiendas S.C., Mission, TX	Geotechnical
2024 Kimco Coring Trenton Crossing - North, McAllen, TX	Geotechnical
300 Main, San Antonio, TX	Materials Testing
PHTX Pumphouse Car Wash, Lytle, TX	Materials Testing
Deer Valley Ranch, Kerrville, TX	Materials Testing
Vantage Data Center (TX21), San Antonio, TX	Materials Testing
Atlantica Alamo Ranch Apts, San Antonio, TX	Materials Testing
Blue Wing BESS, San Antonio, TX	Materials Testing
Artesia at Medina Valley, San Antonio, TX	Materials Testing
Bulverde Oaks - Trac 15, San Antonio, TX	Materials Testing
Kimpton Hotel, San Antonio, TX	Materials Testing
Project Dentist, San Antonio, TX	Materials Testing
CV Schertz TX BTR, Schertz, TX	Materials Testing
Tobin Estates - Phase III, San Antonio, TX	Materials Testing

Note: This is not a comprehensive list. One can be provided if requested.

ECS' PROJECT MANAGEMENT AND QUALITY CONTROL - CONSTRUCTION MATERIALS TESTING (CONSTRUCTION)

1. ECS Field Technician performs test on materials at job site
2. Enter test data into ETHEL
3. Transmitted via wireless technology called FRED
4. Reviewed by the Project Manager and the Principal Engineer
5. Electronic signatures and professional seal added to report
6. Client verbally notified of issues that require attention
7. ECS personnel assist in identifying the appropriate party involved in resolving issues
8. Laboratory results are reported to the client by Project Manager
9. Reports are forwarded to each party designated by the client



ECS offers our sincere commitment to dedicate our staff and the necessary resources of our offices to serve the client and to the successful execution of the project. ECS is excited about this opportunity to help accomplish your mission and exceed your goals. We see ourselves as an extension of the client's staff and our mission is to meet your needs at every level.

7) Names, disciplines, and firm profiles (with resumes listed under key personnel) for any sub-consultants (if any) proposed for the project and 8) Disadvantaged Business Enterprise (DBE) and Affirmative Action status of firm and sub-consultants

While our firm is not a DBE-certified Firm, we have a longstanding commitment to the support of Disadvantaged Business Enterprise (DBE). We regularly utilize these businesses to support our services with additional field support and Steel Inspections. In developing our DBE plan for this contract, ECS took into account the type of work that may be accomplished during the life of the contract, the apparent technical capability of companies necessary to accomplish the goals of the HCRMA, and the availability of local, capable subcontractors that are experienced in providing services similar to those required. We reached out a subcontractor that we are familiar with and requested that they join our team for this pursuit. **ECS will perform 94% of the work required for this contract while using the following sub for 6%.**

PATRIOT NDT, LLC - Certified Welding Inspection Services

Patriot NDT, LLC is a small, veteran-owned and operated welding inspection company in San Antonio, TX. They specialize in visual inspections, mag particles, fluorescent penetrants, ultrasound and eddy current. Patriot NDT, LLC has over 30 years of Certified Welding Inspector (CWI) experience. We have used Patriot NDT on several construction materials testing projects throughout San Antonio and continue to use them for their continued success in Central Texas.



AFFIRMATIVE ACTION PROGRAM

ECS has been and will continue to be an equal opportunity employer. To uphold comprehensive implementation of this equal employment policy, we will take steps to see that.

- Persons are recruited, hired, assigned and promoted without regard to race, national origin, religion, age, color, sex, sexual orientation, gender identity, disability, or protected veteran status, or other characteristics protected by local, state, or federal laws, rules, or regulations.
- Other personnel actions, such as compensation, benefits, transfers, layoffs and recall from layoffs, access to training, education, tuition assistance and social recreation programs are administered without regard to race, national origin, religion, age, color, sex, sexual orientation, gender identity, disability, or protected veteran status, or other characteristics protected by local, state, or federal laws, rules, or regulations.
- Employees and applicants must not be subjected to harassment, intimidation, threats, coercion or discrimination because they have: (1) filed a complaint; (2) assisted or participated in an investigation, compliance review, hearing or other activities related to the administration of federal, state or local laws requiring equal employment opportunity; (3) opposed acts or practices made unlawful by federal, state or local laws requiring equal opportunity or (4) exercised other rights protected by federal, state or local law requiring equal opportunity.



ECS CLIMBS MOUNTAINS!

“Thanks so much for accommodating our needs for our Deck Expansion!

Not only myself, but Capital Projects really appreciate ECS revising your schedules and **climbing mountains** to do the borings this week!

We truly appreciate your efforts and assistance to help move this project forward on an expedited schedule. Thank you again and again!”

- Jeanine Bachtel
UNC Charlotte

9) Listing of all pending litigation against or involving the firm or its agents or employees with respect to any work performed

PROPRIETARY AND CONFIDENTIAL INFORMATION

FIVE-YEAR LOOKBACK FOR CLAIMS INVOLVING ECS SOUTHWEST, LLP CURRENT AS OF JUNE 11, 2024

Pease Place Condo Mediation	NA	Settled for Nominal Sum	Construction defect allegations at condominium development involving 23 parties. No expert identified any deficiency in ECS' services.	Austin	December 2019
Lawton Metropolitan Area Airport Authority v. Rich Construction, et al	Comanche County (OK), District Court	In Discovery	Professional negligence claim of unspecified cause for damage to flooring of fire containment facility	Oklahoma City	February 2023
City of Hutto, TX v Brooklands Partners, et al.	Williamson County (TX) District Court;	Motion to Dismiss Pending	Vague allegations about the breach of the standard of care	Austin	October 2023

Employment matters, bankruptcy claims, collection suits, and lien enforcement actions involving ECS Southwest, LLP are not included on this list.

STATEMENT OF QUALIFICATION



10) Amount of professional liability insurance coverage carried by your firm.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/14/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Arthur J. Gallagher Risk Management Services, LLC 14026 Thunderbolt Pl Chantilly VA 20151	CONTACT NAME: PHONE (A/C, No, Ext): 703-988-0900 FAX (A/C, No): 703-988-9498 E-MAIL ADDRESS: Randi.Swisher@ajg.com	
	INSURER(S) AFFORDING COVERAGE INSURER A : Cincinnati Insurance Company INSURER B : Cincinnati Indemnity Company INSURER C : Bankers Standard Insurance Company INSURER D : Federal Insurance Company INSURER E : ACE American Insurance Company INSURER F :	NAIC # 10677 23280 18279 20281 22667

COVERAGES

CERTIFICATE NUMBER: 1139847845

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab <input checked="" type="checkbox"/> X C U GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			ENP 0219990	12/1/2023	12/1/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/>			EBA 0463057	12/1/2023	12/1/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$ 0			ENP 0219990	12/1/2023	12/1/2024	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	71764164	12/1/2023	12/1/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D E	Excess Umbrella Pollution Liability			56719442 CPMG28192289	12/1/2023 12/1/2023	12/1/2024 12/1/2024	Occurrence/Aggregate Occurrence/Aggregate 2,000,000 15,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

N/A United States	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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ACORD 25 (2016/03)

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11) Name and phone number of person to contact at the bank where the firm does business

EDWARD BYRNE – WELLS FARGO BANK

1753 Pinnacle Drive, McLean, VA

P: 571.341.2925 | F: 866.235.3268 | edward.byrne@wellsfargo.com

12) Any other items, which the consultant deems necessary

CONSTRUCTION MATERIALS TESTING

Construction Materials Testing (CMT) primarily involves testing structural materials used to build new projects from the ground up, materials and components used to construct new additions or new components being added to an existing facility. These include earthwork, shallow and deep foundations, destructive and non-destructive concrete testing, wood construction observations, structural masonry, structural steel, sprayed-on fireproofing, Exterior Insulation and Finish Systems (EIFS), roofing evaluation and testing and asphalt pavement evaluation and testing. Our unique electronic reporting system delivers field and laboratory reports rapidly, giving the construction team valuable information on a timely basis. The majority of test reports are reviewed by ECS engineers and delivered via email to the project team within 24- to 36 hours of the test and/or observation.

SERVICES INCLUDE:

OBSERVATION SERVICES - help document that construction materials within new elements meet the designer's intent

SPECIAL INSPECTIONS - test items that require a construction materials testing and inspection program to be conducted by a third party, specifically including new buildings

THIRD-PARTY CODE COMPLIANCE - is jurisdictionally approved evaluations performed in place of services usually conducted by a local building code inspector which can only be requested / approved by local municipal code inspectors

CIVIL CONSTRUCTION TESTING - observes and tests civil elements such as parking lots, utilities, stormwater ponds, drainage systems, asphalt, concrete curbs, pavement and some retaining walls

WHY ECS:

- Certified personnel
- Accredited facilities
- Industry-leading electronic reporting (compliance/non-compliance reporting) within 24- to 36 hours
- Rapid providers of innovative solutions for earthwork and foundation construction
- Experienced construction materials testing/special inspection professional and technical staff
- Industry-leading project budget management systems
- Advanced soil and materials testing capability





ECS CLIMBS MOUNTAINS!

“ECS was cooperative in every way. On every occasion, no matter the short notice, ECS made every effort to accommodate the situation and make a technician available... In my lifetime, I have worked with hundreds of labs and never experienced the desire to make things happen that ECS displayed.”

- Stephyn Holland, City of Austin



TRANSPORTATION EXPERIENCE

ECS has completed over 6,100 transportation projects company-wide in the last five years and our team members have experience with TxDOT. We are confident that our team’s knowledge of TxDOT procedures and requirements, combined with our successful past performance and strong technical team qualification enables us to fulfill and exceed the HCRMA’s expectations in this contract. Our goal and commitment are to support TxDOT in a manner that confirms the completion of the project in a high-quality, time-sensitive and cost-effective manner. We have meticulously prepared and tailored our approach to successfully perform these services to the mutual benefit of the HCRMA and ECS.

ECS CERTIFICATION SUMMARY

CERTIFICATION	# OF EMPLOYEES IN TEXAS
TXAPA Level 1A - Plant Production Specialist	2
TXAPA Level 1B - Roadway Specialist	11
TXAPA Level 2 - Mix Design Specialist	0
AGG101 - Aggregate Specialist	1
TXAPA Level SB 101 - Properties Specialist	10
TXAPA Level SB 102 - Field Specialist	112
TXAPA Level SB 103 - Material Analyst Specialist	2
TXAPA Level SB 201 - Strength Specialist	1
TXAPA Level SB 202 - Compressive Strength Specialist	1
ACI Concrete Field-Testing Technician - Grade 1	96
ACI Concrete Strength Testing Technician	14

ECS TXDOT PRE-CERTIFICATION SUMMARY

AREAS OF CERTIFICATION	ECS
11.1.1 Roadway Construction Management and Inspection	X
11.3.1 Construction Superintendent	X
12.1.1 Asphaltic Concrete Production	X
12.1.2 Portland Cement Concrete	X
12.1.3 Materials Engineering	X
12.1.4 Asphaltic Concrete Placement	X
12.1.5 Portland Cement Concrete Placement	X
12.1.6 Embankment/Subgrade/Backfill/Base Production	X
12.1.7 Embankment/Subgrade/Backfill/Base Placement	X
12.2.1 Concrete Plant Inspection and Testing	X
12.2.5 Hot Mix Asphalt (HMA) Plant Inspection and Testing	X
14.1.1 Soil Exploration	X
14.2.1 Geotechnical Testing	X
14.3.1 Transportation Foundation Studies	X
14.4.1 Building Foundation Studies	X
14.5.1 Evaluation & Design of Geotechnical Related Structures	X



STAFF / TECHNICIAN CERTIFICATIONS

ECS is structured to effectively assemble a highly qualified team to respond to the assignment, regardless of size, location, or complexity. Our professional staff at each level has extensive experience working on public and private projects around the state. We employ multiple International Code Conference (ICC) Reinforced Concrete certified technicians who have experience on complicated projects. In addition, we also have multiple technicians that are certified by the American Concrete Institute (ACI). Our technicians are both experienced and qualified to provide a high level of observation expertise. Our technicians are knowledgeable and adherent to project specifications, plan requirements, and adopted versions of the building code, including IBC1704, and ACI 318 standard reinforcing details. Our qualified and certified technicians routinely report and notify the general contractor of the non-conforming items through careful documentation and photographic records, as well as adding these items to non-conformance logs to keep the parties informed.

LABORATORY CERTIFICATIONS

ECS has a full-service laboratory in our San Antonio office. In addition, our sister offices in Austin and Houston provides HCRMA with the benefit of an additional full-service laboratory if needed. ECS laboratories conduct soil and concrete testing with our geotechnical consulting and construction materials engineering testing services. In addition to our internal training and certification programs, ECS laboratories participate in proficiency sample testing certification programs for aggregate, soils, concrete, and masonry. These programs are administered by various external agencies long recognized as leaders who set consistent industry standards, such as the American Association of State Highway and Transportation Officials (AASHTO), Materials Reference Laboratory (AMRL), United States Army Corps of Engineers (USACE) and the Cement and Concrete Reference Laboratory. Our San Antonio laboratory maintains accreditation from AMRL, CCRL, and USACE.

Laboratory Test Procedures Accredited by AMRL/AASHTO

Quality Management System: R18, C1077 (Aggregate), C1077 (Concrete), D3740 (Soil), E329 (Aggregate), E329 (Concrete), E329 (Soil)

Soil: R58, R74, T88, T89, T90, T99, T180, T191, T265, T310, D421, D422, D698, D1140, D1556, D1557, D2216, D2487, D2488, D4318, D4718, D6938

Aggregate: R76, R90, T11, T21, T27, T84, T85, T255, C40, C117, C127, C128, C136, C566, C702, D75

Concrete: M201, R60, R100, T22, T97, T119, T121, T152, T196, T231 (8000 psi and below), T309, C31, C39, C78, C138, C143, C172, C173, C231, C511, C617 (8000 psi and below), C1064, C1231 (12000 psi and below)

Masonry: C511 (Moist Cabinets, Moist Rooms and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes); C780 (Annex 1) (Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Consistency by Cone Penetration); C780 (Annex 6) (Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry - Compressive Strength); C1019 (Sampling and Testing Grout)

COPIES OF LAB CERTIFICATIONS



CERTIFICATE OF ACCREDITATION



ECS Southwest, LLP - an Engineering Consulting Services, Ltd. company

in

San Antonio, Texas, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).


Erin Tymon,
AASHTO Executive Director


Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 06/02/2023 at 12:39 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



USACE CERTIFICATE OF LABORATORY VALIDATION



ECS Southwest, LLC- an Engineering Consulting Services, Ltd. Company

431 Isom Road, Suite 114
San Antonio, TX, United States
Matthew Robbins
(210) 528-1430

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

**THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:
15 MAY 2024 AT 09:27 HOURS**

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 08/25/2024

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>


Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

ECS' EQUIPMENT AND FACILITIES		
EQUIPMENT NAME	CALIBRATION FREQUENCY	CALIBRATION PROCEDURES
Concrete Compression Break Machines	Annual	Outside Agency (Recal)
Lab Scales	Annual	Outside Agency (Recal)
Drying Ovens	Annual	Outside Agency (Recal)
Atterberg Limits Equipment	Annual	Internal
Concrete Mixer	Prior to use	Check Physical Condition
R-Meter	Annual	Outside Agency (Recal)
Brass Mortar Cube Mold	Annual	Internal
Soil Mixing Machine	Prior to use	Internal
Sieve Shaker	Annual	Internal
Vacuum Pump	Prior to use	Internal
Sample Splitters	Prior to use	Check Physical Condition
Sieves	6 Months	Internal
Proctor Molds	Annual	Internal
Proctor Hammers	Annual	Internal
Automatic Proctor Machine	Annual	Internal
Resistivity Equipment	Annual	Internal
Load Cell-Unconfined	Annual	Outside Agency (Recal)
Pad Cap Retaining Rings	Each Use	Internal
Continuous Temp Recorders	6 Months	Outside Agency (Recal)
Concrete Pressure Air Meters	Quarterly	Internal
Pressure Air Meter	Quarterly	Internal
Cylinder Molds	Each Shipment	Internal
Unit Weight Measure	Annual	Internal
Slump Cone	Annual	Internal
Micrometer (Fire Proofing)	Annual	Internal
Swell Rings	Annual	Internal
Nuclear Density Gauges	Annual	Outside Agency (OSCS)
pH/Conductivity Meter	Annual	Internal
Sulfate Meter	Annual	Internal

Additional items including calipers, thermometers, and field scales are annually calibrated by an outside agency. Equipment such as concrete saws, coring equipment, and our generators are checked for physical condition before use.

TEXAS BOARD OF PROFESSIONAL ENGINEERS CERTIFICATION



TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

Certificate of Registration

This acknowledges that

ECS Southwest, LLP

has fulfilled the requirements of the State of Texas to offer and perform engineering services in the State of Texas. In witness whereof we have hereunto set our hands and affixed the seal of the Board, this 1st day of February, 2024.

Original certificate was issued on 14th day of January, 2005.

Registration Number: F - 8461

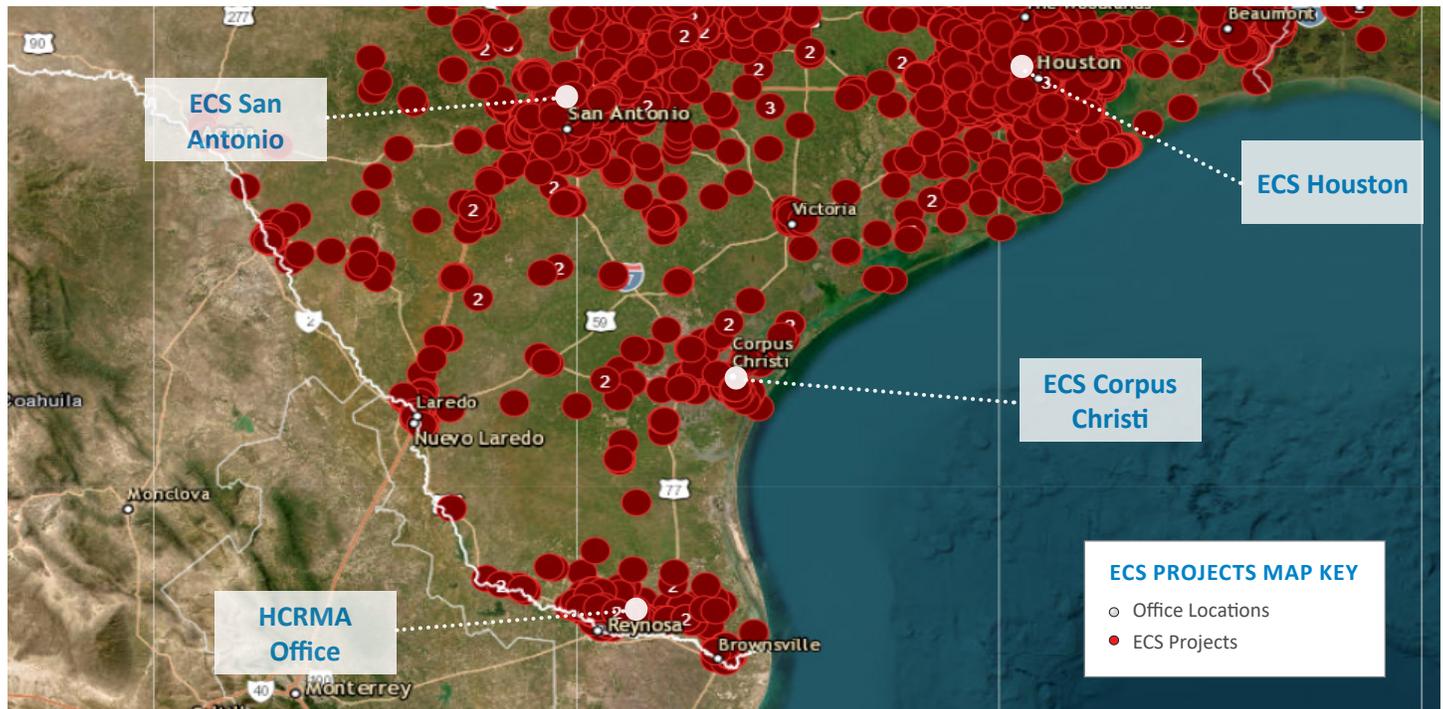


Dr. Sina K. Nejad, P.E., P.Eng., Board Chair

Albert L. Cheng, Secretary

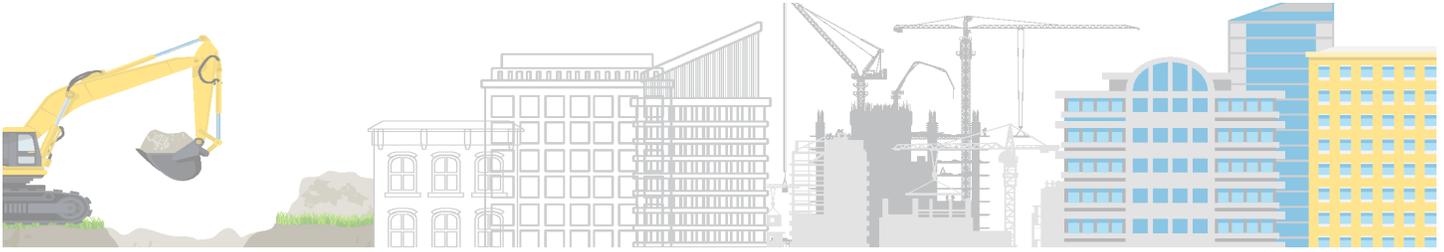
FAMILIARITY WITH THE GEOGRAPHICAL AREA

Our ECS team has performed engineering services in Hidalgo County since 2001. ECS' extensive experience has made us familiar with the local geology and local design conditions that occur in the County. ECS technical resources extend beyond the County and include project experience in counties and cities throughout Texas. Our San Antonio office will serve as the principal location where services for this contract will be executed. Our Corpus Christi office will serve as a secondary location. ECS has completed over 1,000+ projects in South Texas while staying within project deadlines and budgets. An example of some of our project experience is depicted on the map with red dots.



ECS is a well-known provider of consulting engineering services to several local government agencies. Whether working with a city, township, or county, our multi-disciplinary expertise in geotechnical engineering, construction materials testing, facilities engineering, and environmental consulting services enables us to fully support many types of design, new construction, and renovation projects. ECS has provided various services for more than **7,100** public/municipal projects across the United States in the last five years.

Along with TxDOT, ECS currently hold active On-call contracts with multiple municipalities throughout Texas including the City of Austin, City of Burleson, City of Carrollton, City of Cedar Hill, City of College Station, City of Dallas, City of Denton, City of Euless, City of Fort Worth, City of Frisco, City of Garland, City of Houston, City of Keller, City of League City, City of McKinney, City of Mesquite, City of New Braunfels, City of Plano, City of Richardson, City of Rockwall, City of Rowlett, City of San Antonio, City of San Marcos, City of Sugar Land, City of Temple, City of The Colony, City of Waxahachie, City of Wylie, Dallas County, Kaufman County, Kendall County, Town of Flower Mound and Town of Prosper.



SERVICES PROVIDED BY ECS



Construction Materials Testing: Materials used in construction projects must meet quality standards to comply with design specifications and jurisdictional requirements. An agency, such as the Town of Flower Mound, needs assurance that the construction materials and methods used on municipal projects and paid for by the Town will stand up to the load and bearing demands that will be placed on them. Construction Materials Testing services offered include:

- Observation and Testing in Accordance with the Geotechnical Study
- Earthwork Monitoring and Testing including Field Density Compaction Testing
- Bearing Evaluation for Shallow and Deep Foundation Systems
- Proofrolling of Subgrade and Subbase
- Reinforcing Steel Inspection
- Structural Steel Observation and Testing, including Welds, Bolts
- Concrete Testing including material acceptance, mix design conformations, slump, air entrainment, unit weight, compressive and flexural strengths and Fireproofing
- Masonry Construction Observation and Testing
- Post-Tensioning Pre-Pour and Stressing
- Wood Frames and Fire Stopping
- GPR nondestructive testing
- Drilled pier observation

Plant, Field and Laboratory Testing

- Asphalt field Density
- Lime/Cement Field Gradation

Core

- Test Hole Analysis
- Concrete
- Asphalt
- Cylindrical Concrete Specimens
- Drilled Cores



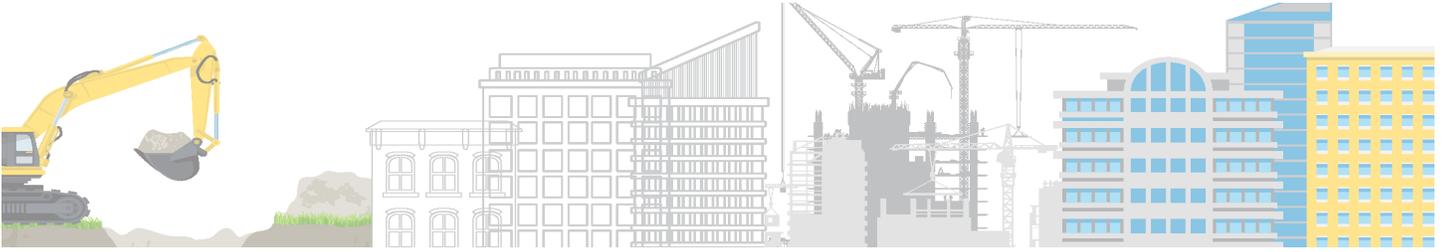
Geotechnical Engineering: At ECS, we know that what is below the surface can be as crucial and complex as the structure it supports. We know that subsurface conditions can dramatically affect your project's design, budget, and schedule. ECS provides a complete spectrum of subsurface exploration and geotechnical consulting services including:

Engineering Analysis and Design

- Soil-Moisture Relationship or Proctor Test
- Unit Weight Test
- Atterberg Limits Test
- Site Development Feasibility Studies
- Storm water Management Recommendations
- Soil Lineal Shrinkage Test
- Lime PI and pH Series
- Shallow and Deep Foundations
- Texas Wet Ball Mill (WBM) Test
- Grain Size Analysis
- No. 200 Sieve Analysis
- Gradation
- Forensic Investigations
- GPS Layout of Test Locations Sand - Backfill Water and Sewer
- Rock - Crushed Stone for Embedment LAA (Los Angeles Abrasion)

Field Explorations

- Hand Augers, Soil Borings and Rock Core Drilling
- Test Pit Excavations and Logging
- In-Situ Pressuremeter, Dilatometer and Cone Penetrating Testing



Environmental Consulting: The ECS Environmental Services Group has experience with due diligence requirements and knowledge of federal, state and local regulations to help our clients manage specific environmental conditions that may be encountered on project sites. Our professionals listen to the needs and concerns of our clients and provide timely and cost-effective solutions that help clients meet goals.

- Phase I/II ESAs
- Soil and Groundwater Exploration/Sampling
- Feasibility Studies and Remedial Design
- Risk Assessments
- Groundwater Modeling
- Remedial Action Plans
- Corrective Action Plans
- Remediation Implementation and Oversight
- Remediation Systems
- Voluntary Remediation Program Administration
- UST/AST Consultation and Closure
- Landfill Investigations
- Assessments/Impact Statements
- NEPA Studies
- Hydrogeological Studies
- NPDES
- SPCC Plans
- Quality Assurance Project Plans
- Coastal Area Management Act (CAMA) Permitting
- Environmental and Safety Training
- Vapor Evaluations/Intrusion Sampling
- Passive/Active Vapor Mitigations Systems
- Vapor Barriers
- Industrial Hygiene Services
- Wetland Delineation and Permitting



Facilities Consulting: Our Facilities Consulting Group performs a wide range of facility services that benefit building owners, managers, contractors, designers, financial institutions, and prospective buyers. To assist you, we offer services that can be tailored to meet the needs of a project and/or site, including:

Condition Assessments

- Property Condition Assessments
- Code and OSHA Compliance
- Accessibility (ADA)
- Waterproofing
- Anchor Bolts
- Fall Protection
- Building Enclosure
- Parking Structure
- Infiltration
- HVAC Duct Testing
- Retro-commissioning (RCx)
- Inspections, Equipment Inventory
- Energy Audits, Energy Benchmarking

Design Consulting

- Roofing
- Exterior, Insulation, and Finish Systems
- Waterproofing
- Structural
- Architectural
- Code Plan Review
- Energy Use Recommendations
- Energy Modeling (eQuest)

Construction Consulting

- Preconstruction Survey
- Bank Draw Site Review
- As-built Exploration and Documentation
- Quality Assurance
- Commissioning

STATEMENT OF QUALIFICATION



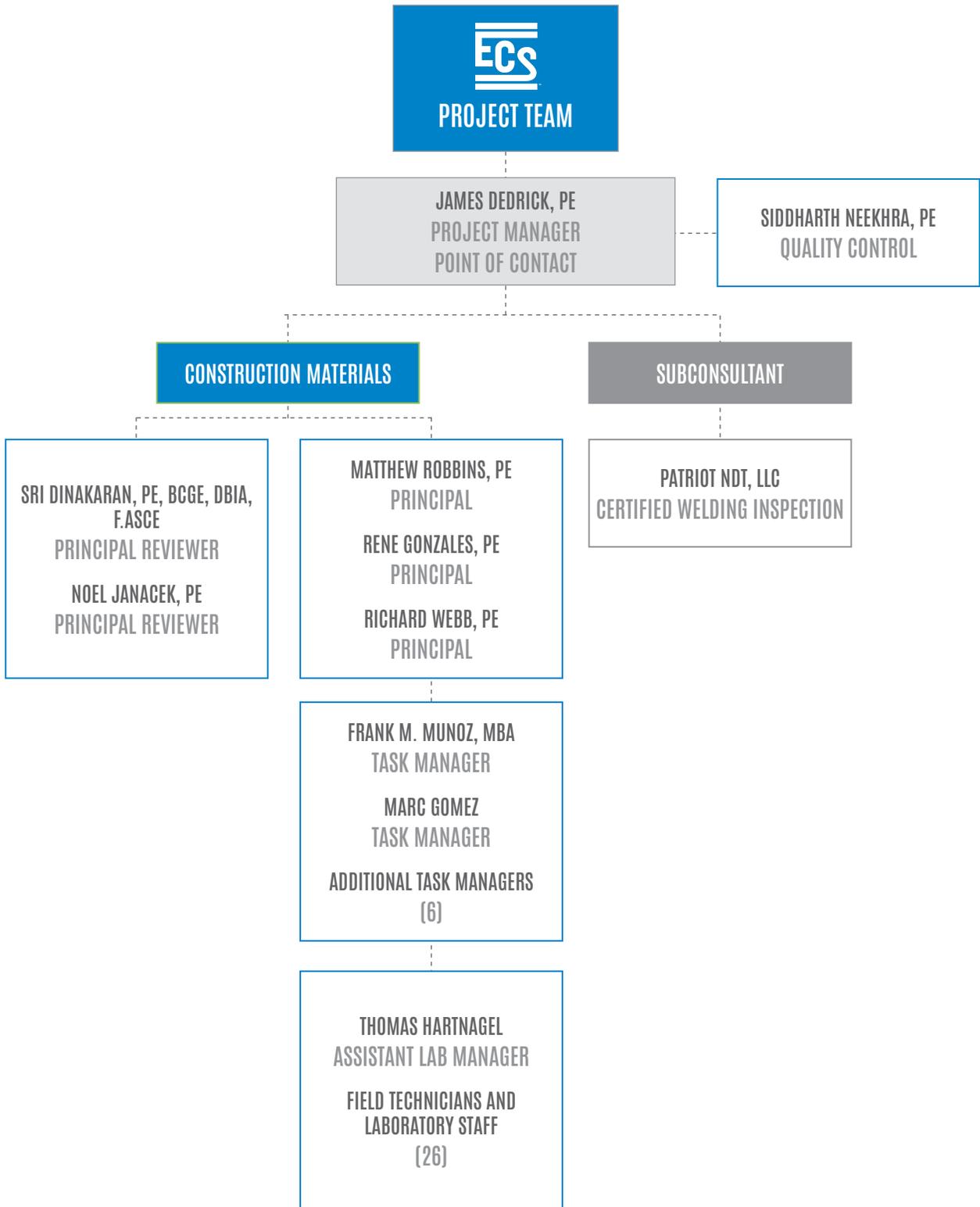
13) Executed Architect-Engineer Qualifications (Standard Form 330)

ARCHITECT - ENGINEER QUALIFICATIONS						
PART 1 - CONTRACT-SPECIFIC QUALIFICATIONS						
A. CONTRACT INFORMATION						
1. TITLE AND LOCATION (City and State) Hidalgo County Regional Mobility Authority (HCRMA) - Request for Statement of Qualifications Construction Material Testing (CMT) Services and Forensic Investigation and Evaluation of In-Place Construction Materials for The 365 Tollway Project						
2. PUBLIC NOTICE DATE 5/08/2024		3. SOLICITATION OR PROJECT NUMBER SOQ – CMT LAB AND FORENSIC SERVICES – 2024-05				
B. ARCHITECT ENGINEER POINT OF CONTACT						
4. NAME AND TITLE James Dedrick, PE, CMT Department Manager, Associate Principal; Contract Role: Project Manager						
5. NAME OF FIRM ECS Southwest, LLP						
6. TELEPHONE NUMBER 210.528.1430		7. FAX NUMBER 214.483.9684		8. E-MAIL ADDRESS jdedrick@ecslimited.com		
C. PROPOSED TEAM (Complete this section for the prime contractor and all key subcontractors.)						
	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV-Partner	Subcontractors			
a.	<input checked="" type="checkbox"/>			ECS Southwest, LLP <small>Check if Branch Office</small>	431 Isom Road, Suite 114, San Antonio, TX 78216	Construction Materials Testing / Prime
b.	<input checked="" type="checkbox"/>			ECS Southwest, LLP <small>X Check if Branch Office</small>	14050 Summit Drive, Suite 101 Austin, TX	Construction Materials Testing / Prime
c.	<input checked="" type="checkbox"/>			ECS Southwest, LLP <small>X Check if Branch Office</small>	3033 Kellway Drive, Suite 110 Carrollton, TX 75006	Construction Materials Testing / Prime
d.			<input checked="" type="checkbox"/>	PATRIOT NDT, LLC <small>Check if Branch Office</small>	1054 Buckskin Pass, Spring Branch, TX 78070	Certified Welding Inspection / Sub
e.				 <small>Check if Branch Office</small>		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

ORGANIZATIONAL CHART OF PROPOSED TEAM



STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME James R. Dedrick, PE	13. ROLE IN THIS CONTRACT Point of Contact, Project Manager, Principal Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - Austin, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Geotechnical Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 104012	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TxDOT: 12.1.1; 12.1.2; 12.3.1; 12.2.5			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
TxDOT 183 South Bergstrom Expressway, Austin, TX	2015-2020	2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm a. The roadway includes three tolled lanes and two-three general purpose non-tolled lanes along US 183 between US 290 and SH71. Mr. Dedrick, the certifying engineer (construction services manager), confirmed soils, concrete, and aggregate test results. Responsible for overall execution of the quality management plan (QMP), this role includes verifying certification of personnel, calibration of equipment, and maintaining QCMP timeframes for completion of test results. Total Cost - \$750-800 million		
SH 130 Forensic Investigation, Austin, TX	2019	2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm b. SH130 pavement movements were investigated by sampling lime-treated soils and measuring pH, plasticity, and moisture content to identify possible causes of pavement distress. Mr. Dedrick, the certifying engineer (construction services manager), was responsible for soil test results related to verifying the physical properties of lime-treated soils, including moisture content, plasticity index, and pH testing. Lab Fees - \$50,000-100,000		
City of Austin, Permitting and Development Center, Austin, TX	2019	2019
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm c. Mr. Dedrick, as the Construction Services Manager, was responsible for third-party quality verification and the overall execution of construction material testing and Special Inspection services for the \$120,000,000 project, demonstrating his meticulous approach and commitment to quality. Total Fees - \$120,000,000		
City of Austin, Pearl Retreat Lane, Austin, TX	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm d. Mr. Dedrick serves as Project Principal for the construction materials observations and testing. He conducted investigations, evaluations and testing of soils, aggregates, structural steel welding and erections, asphaltic concrete and Portland cement concrete, as needed, for roadways, utilities, buildings, parking lots and other engineered structures. ECS Fees - Ongoing		
City of Austin, Stassney Lane at Congress Avenue, Austin, TX	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm e. Mr. Dedrick provided a senior review for the project. The planned improvements include raised medians for access management, reconfiguration of the intersection, signal phasing changes, enhanced pedestrian and bicycle facilities, and associated signing, stripping, and paving. He also provided a principal review of the observation and testing of structural masonry. ECS Fees - Ongoing		

STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Matthew Robbins, PE	13. ROLE IN THIS CONTRACT Principal	14. YEARS EXPERIENCE	
		a. TOTAL 12	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - San Antonio, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 119352	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) N/A			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. City of San Antonio Public Works On-Call Contract, San Antonio, TX	Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Robbins currently serves as the City of San Antonio Contract Manager. The ECS team currently provides geotechnical and construction materials testing services to the City of San Antonio's project. This contract is on an on-call basis. ECS works in coordination with the city's architectural, engineering, and construction teams to assess site conditions and project quality through technical observations and testing. ECS Fees - Ongoing		
b. USCIS Field Office, Edinburg, TX	2023	2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Robbins served as the Project Principal for construction materials observation services for the U.S. Citizenship and Immigration Services field office. ECS' services consisted of providing a Certified Welding Inspector to provide structural steel observations for the subject building. ECS Fees - \$7,500		
c. Department of Veterans Affairs, Administration Building, Corpus Christi, TX	2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Robbins served as the Geotechnical Principal Engineer, providing technical oversight of the subsurface exploration, laboratory testing and engineering analysis. The purpose of this study was to provide geotechnical information for the design of foundations for the proposed building, pavements, and associated utilities and appurtenances. ECS Fees - \$13,050		
d. Transportation Department Renovation, San Antonio, TX	2021	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm ECS provided construction materials testing services on the Southwest Independent School District's Transportation Department Renovation. Mr. Robbins served as the Project Principal. The project involves structural enhancements to the current transport facility, including repairs to the frame and modifications to footings, plus adding a steel canopy at the wash bay. ECS' role focuses on construction materials testing and Special Inspections, covering soils, foundations, concrete, and steel structures. Our qualified team will confirm compliance with project specifications on an as-needed basis. ECS Fees - \$11,367		
e. SAISD Harry H. Rogers MS Renovations/Additions, San Antonio, TX	Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Robbins is the Project Principal for construction materials testing and observation services for additions to Harry H Rogers Middle School. The project includes a 42,800 sf, two-story building addition, a new athletic field, associated flatwork, parking, and driveway sections. ECS' scope of work includes earthwork, drilled pier foundations, reinforcing steel, cast-in-place concrete, epoxy bolts, masonry, and structural steel. ECS Fees - \$85,881		

STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Rene Gonzales, PE	13. ROLE IN THIS CONTRACT Principal Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 29	b. WITH CURRENT FIRM 3.5
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - San Antonio, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 86259	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TxDOT: 12.1.2; 14.1.1; 14.2.1; 14.3.1 ASFE/The Best People on Earth Fundamentals of Professional Practice Radiation Safety Officer			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
City of San Antonio, Ingram Road Intersection Improvements, San Antonio, TX	2023	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm a. Mr. Gonzales served as the Project Principal for geotechnical services to provide information for the design and reconstruction of two city streets in San Antonio. The two subject streets include Military Drive, approximately one mile, and Ingram Road, approximately 0.6 miles. ECS provided field exploration services, laboratory testing, and design recommendations for the construction of the two subject streets. ECS Fees - \$21,654		
City of Floresville, Roadway Reconstruction of Peach Street and F-Street, Floresville, TX	2022	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm b. ECS provided a geotechnical evaluation to assist with the design and reconstruction of two existing city streets. The study included soil borings along the existing roadways to assess the existing pavement sections and review the subgrade soils along the alignment. ECS developed design alternatives for use by the project civil engineer to select the most economical design section for use on the project. Mr. Gonzales served as Principal Reviewer for the project. ECS Fees - \$6,550		
SH 46 Expansion (Bulverde Road to Smithson Valley Road), Comal County, TX	2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm c. Mr. Gonzales was the project engineer responsible for a geotechnical evaluation to provide soil borings and pavement cores to assist with the design of a roadway reconstruction project in Comal County, TX. The project included Texas Cone Penetrometer (TCP) testing to identify the depth of limestone and provide information on the interlayered Glen Rose limestone encountered along the alignment. Total Fees - N/A		
Loop 1604 Expansion (US Hwy 90 to IH-35), San Antonio, TX	2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm d. The project included pavement cores and soil borings to provide soils information to measure the existing pavement layer thickness values. Laboratory testing was performed to classify the soils and develop engineering properties of the materials encountered along the alignment. TxDOT performed falling weight deflectometer (FWD) testing and provided the data files for use in back-calculating the stiffness parameters of the various pavement layers. The testing and analysis results were used to develop a pavement design using FPS-21 design software. Mr. Gonzales served as the Project Manager. Total Fees - N/A		
US 281 Retaining Wall Evaluation, Hidalgo County, TX	2007	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm e. Mr. Gonzales oversaw a boring exploration program to gather soils information along an existing retaining wall alignment experiencing foundation movements. The borings included TCP testing and Shelby Tube sampling to recover undisturbed soils samples for specialized testing consisting of consolidation tests, consolidated-undrained triaxial tests, and direct shear tests. The result of the advanced testing was then used to develop soils parameters for use in a global stability analysis. Total Fees - N/A		

STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Richard Webb, PE	13. ROLE IN THIS CONTRACT Principal	14. YEARS EXPERIENCE	
		a. TOTAL 40.5	b. WITH CURRENT FIRM 2.5
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - San Antonio, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 60460	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TXDOT: 11.1.1, 12.1.1, 12.1.2, 14.1.1, 14.2.1 Radiation Safety Officer			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE New Bridge, TX-107 (16 ½ Mile Road North), La Villa, TX Geotechnical Engineer and Project Manager for a new two-lane concrete bridge extending over a drainage way. Project included drilling, laboratory testing and geotechnical engineering recommendations including drilled shafts, driven piles, retaining walls, subgrade preparation, and pavement thickness sections. Total Fees - \$75,000	2018	2021-2022
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Navy Phase II, 6500 Nita Way, Baytown, TX The project consists of the construction of an approximate 800,000 sf warehouse with about 20 acres of reinforced Portland cement concrete pavement for truck parking, aprons, and access drives. The building was constructed using concrete tilt-walls supported using drilled shafts. Pavement thicknesses range from 5 inches to 9 inches over the treated subgrade. Mr. Webb reviewed and confirmed concrete compressive strength testing and test results. Total Fees - \$235,500	2023-2024	2024
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Highway 6 Turn Lane & Traffic Signal, Highway 6 & Vicksburg Boulevard, Missouri City, TX The project consists of adding a right-turn lane off Highway 6 near Vicksburg Boulevard and the installation of a new traffic signal at the intersection of Highway 6 and Vicksburg Boulevard. The turn lane is approximately 70 feet long and consists of a 10-inch reinforced Portland cement concrete pavement on a prepared subgrade. 36-inch and 48-inch drilled shafts support the signal poles. He reviewed and confirmed concrete compressive strength testing and test results. Mr. Webb served as Principal Engineer. Total Fees - \$11,000	2023	2023
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department of Veteran Affairs, Houston National Cemetery, Houston, TX The project consists of the design and construction of a roadway extension and associated site improvements. ECS collected soil samples at the site for Atterberg Limits (PI Index) testing. Mr. Webb was the principal engineer responsible for soil analysis in the area. Total Fees - \$1,500	2023	2023-2024
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Academies SBESS TX3, McAllen, TX Mr. Webb served as the Associate Project Principal for geotechnical services for the design of the foundations for a new interconnected Battery Energy Storage System. The planned development included approximately two acres of undeveloped land for an energy storage site via batteries, and the remaining will be solar field areas. ECS' scope of services included drilling several borings approximately 20 feet below the existing ground surface, subsurface characterization, groundwater observations, field electrical resistivity survey, and laboratory testing. Recommendations for site preparation, grading, drainage, and foundation design and construction were provided. ECS Fees - \$15,750	2023	N/A

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STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Siddharth Neekhra, PE	13. ROLE IN THIS CONTRACT Quality Control	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 10
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - Dallas (Carrollton), TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Engineering, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 102284	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TXDOT: 14.1.1 Soil Exploration, 14.2.1 Geotechnical Testing, 14.3.1 Transportation Foundation Studies, 14.4.1 Building Foundation Studies			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
LBJ East Design-Build Project, Dallas County, TX	2019	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm		
a. The project consisted of complete reconstruction and widening I-635 from US 75 to I-30, including the I-30 Interchange, at approximately 11 miles. When complete, there will be 10 general purpose lanes and two tolled managed lanes. ECS responsibilities included proposal phase geotechnical design of various bridges, retention systems, pavement subgrades, embankments, slopes, and noise walls for the northern 5.7-mile section. The project will also feature the construction of continuous frontage roads and numerous intersection improvements. Mr. Neekhra served as project principal. ECS Fees - \$66,411		
Trinity River Authority 40TM-5 Relief Interceptor, DeSoto, TX	2019	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm		
b. The project involved the excavation along the interceptor alignment, installation of the pipeline and supporting and connecting structures, and backfilling of the installed pipeline and structures. Mr. Neekhra served as a principal reviewer for the construction materials testing services for the project. ECS' extensive scope of services includes soils laboratory physical property tests, in-place moisture/density tests on compacted soils, concrete placement observation, field testing, lab compressive strength testing, and pipe infill material sampling and testing, showcasing our comprehensive capabilities in construction materials testing. ECS Fees - \$21,326		
FM 455 and IH 35 Improvements, Sanger, TX	2019	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm		
c. ECS completed the subsurface exploration and geotechnical engineering analysis for the proposed widening of FM 455 (Chapman Road.) from FM 2450 to Marion Road, east of IH 35. The approximate length of the improvement is about 5.5 miles. A complete reconstruction of IH 35 overpass at FM 455 is also planned which includes lengthening the bridge and reconstruction of embankment and ramps extending north and south along IH 35 for approximately 800 lf. ECS' integrated services included drilling soil borings, laboratory testing of representative soil samples for pertinent engineering properties and preparation of an engineering report. Mr. Neekhra served as project principal. ECS Fees - \$41,669		
Kaufman County, Helms Trail, Forney, TX	2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm		
d. ECS provided the geotechnical engineering services for the improvements consisting of the street pavement, traffic signs at two intersections, a retaining wall along the Helms Trail at the front of the shopping center, warehouses, and a potential bridge converted from the existing culvert. The length of the project improvement is about 21,000 feet from SH I-20 to US Highway 80. Currently, there are 16 culverts that are running across Helm Trails. Based on the project street conditions, we included a potential future bridge to replace one of the culverts. ECS' scope includes drilling several pavement, retaining wall, and traffic sign borings to various depths, laboratory testing of representative soil samples for pertinent engineering properties, and preparation of an engineering report. Mr. Neekhra served as project principal. ECS Fees - \$37,412		
IH 35 Phase II Design-Build Project Proposal Study, Dallas County, TX	2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm		
e. The project covered a 6.39-mile stretch along IH-35 from I-63 to the Dallas County Line, involving extensive geotechnical and pavement studies. ECS prepared geotechnical and pavement design basis reports, conducted an independent analysis to supplement existing data, and performed subsurface explorations including soil borings and test pits. Laboratory tests provided material characterizations in compliance with ASTM, AASHTO, and Authority specifications. Advanced software tools were used to analyze bearing capacity, stability, settlement, and other important parameters. Comprehensive geotechnical and pavement engineering design reports were developed, alongside an estimate for a detailed design pavement campaign, summarizing the anticipated field and geotechnical investigations required for the detailed design phase. Mr. Neekhra served as project principal. ECS Fees - \$272,479		

STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Sri Dinakaran, PE, BCGE, DBIA, F.ASCE	13. ROLE IN THIS CONTRACT Principal Reviewer	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - Dallas (Carrollton), TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering (Geotechnical) Bachelor of Science, Civil Engineering,		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 85434	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Board Certified Geotechnical Engineering (BCGE), Academy of Geo-Professionals, 2016 Design-Build Institute of America (DBIA), 2021 TxDOT Precertification: 14.1.1, 14.2.1, 14.3.1, 14.4.1, 14.5.1			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
North Texas Tollway Authority, Multiple Counties, TX	1997	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm a. Mr. Dinakaran was the Geotechnical Engineer for Segment I (Sections XV, XVI and XVII) of the President George Bush Turnpike, 190T. The project is a segment of the proposed 26-mile turnpike in Dallas, Collin and Denton counties. The project included 5-highway bridge overpasses or underpasses, 1-railroad bridge underpass, pavement subgrades, barrier plazas and ramp toll plazas. He performed analysis and calculations for the bridge foundation, retaining walls, pavement sections, and pavement subgrade modifications. Total Fees - \$900,000		
North Texas Tollway Authority, FM2499, Denton County, TX	2004	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm b. Project Engineer for FM 2499 in Denton County crossing sections of Lake Lewisville. The project is a 4.6-mile extension of the existing roadway beginning near the intersection of FM 407 and continuing to the intersection of FM 2181. The project is a 4-lane divided highway and features twin structure bridges crossing Hickory Creek (3,300-length) and Poindexter Branch (2,758-foot length) and a railroad underpass with associated retaining walls. Provided recommendations for drilled shafts, MSE retaining walls, noise walls, and pavement sections. Total Fees - \$500,000		
TxDOT IH 35 and 51st Street Interchange, Austin, TX	2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm c. Mr. Dinakaran served as the Project Manager. The project consisted of proposed improvements of the southbound lanes of Interstate 35 (IH-35) in the vicinity of the 51st Street interchange in Austin, Texas. The anticipated improvements included widening of the IH-35 southbound main lanes; realignment of the existing Southbound frontage road; addition of a southbound collector-distributor road (approximately 1,500 ft. in length); improvement of the southbound frontage road connection to the existing northbound U-turn structure; reversal of the existing Southbound ramps; and construction of a multi-lane roundabout. Total Fees - \$55,000		
I635 LBJ East project, Dallas, TX	2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm d. Mr. Dinakaran served as the Project Manager. The I-635 East D-B project is a \$ 1.74 billion design-build roadway construction project spanning 11 miles. I-635, also known as LBJ Freeway, carries more than 200,000 vehicles daily. The project covered extensive geotechnical work including 520 borings and a wide range of tests such as moisture content, Atterberg Limits, and triaxial tests, to inform designs for noise walls and pavement subgrades. His responsibilities encompassed managing field and lab operations, contributing to technical meetings, and guiding design workshops. Total Fees - \$5.5M		
TxDOT CR 4710 Blacks Creek, Hopkins County, TX	2019	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm e. Mr. Dinakaran served as the Project Manager. The geotechnical report presented the results of the geotechnical study for the proposed CR 4710 at Blacks Creek Off-System Bridge replacement in Hopkins County, Texas. The scope included drilling and sampling two borings to depths of 35 to 40 feet, laboratory testing, and an engineering report providing drilled shaft recommendations for the design of a new bridge. Total Fees - \$15,000		

STATEMENT OF QUALIFICATION



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Noel Janacek, PE	13. ROLE IN THIS CONTRACT Principal Reviewer	14. YEARS EXPERIENCE	
		a. TOTAL 25.5	b. WITH CURRENT FIRM 1.5
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - Dallas (Carrollton), TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science, Civil Engineering Bachelor of Science, Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer: TX PE No. 103586	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TxDOT: 11.1.1- Roadway Construction Management and Inspection; 14.1.1- Soil Exploration; 14.2.1- Geotechnical Testing; 14.3.1- Transportation Foundation Studies; 14.5.1- Evaluation and Design of Geotechnical Related Structures			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Dallas North Tollway, Frisco, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm a. Engineer of record for the assessment and stabilization of 8 MSE walls along the Dallas North Tollway. Designed and led the geotechnical investigation and structural assessment of existing conditions and the development of multiple stabilization alternatives (soil nails, anchors, and drilled shafts) to restore the walls to the design factors of safety using the 2001 FHWA methods of the original contract. Stabilization accounted for construction access and future roadway expansions. Access was limited by service roads at the base of the walls and landscaped slopes on top of the walls. Although the MSE walls have varying failure modes, the firm identified consistent stabilization systems that could be used at each location to optimize schedule, traffic impacts, and construction costs. Total Fees - \$1.9M		
President George Bush Turnpike (PGBT) Walls 3L, 3R, 4L, 4R Stabilization, NTTA, Irving, TX	2012	2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm b. As Engineer of Record, Mr. Janacek provided turnkey investigation; alternatives development; construction plans; and construction support to stabilize the existing walls with minimal interference to tollway operations using post-tensioned soil anchors and soil nails. Total Fees - \$1.6M		
Sam Rayburn Tollway 4th Lane Expansion, Frisco, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm c. Mr. Janacek was responsible for construction oversight of MSE walls adjacent to the existing SRT mainlanes. He performed submittal reviews for compliance with plans and specifications and provided/oversaw on-site observation during construction. Total Fees - \$200M		
President George Bush Turnpike Eastern Extension, NTTA, Rowlett/Garland, TX	2011	2011
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm d. Mr. Janacek oversaw the design and construction of MSE walls for Sections 28, 29, and 31, and reviewed design and construction for Section 30. He collaborated with geotechnical engineers to optimize wall designs, analyzed wall stability, reviewed various retaining wall designs, and coordinated field support with section managers. Additionally, he evaluated construction quality and managed responses to submittals, RFIs, and change orders. Total Fees - \$958M		
Chisholm Trail Parkway 2C and 3A, NTTA, Fort Worth, TX	2014	2014
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm e. Mr. Janacek directed the design and construction of various retaining walls next to the UPRR, confirming they met specifications and conducted on-site observations. He also led the design for pipeline repairs and ground improvements in areas near active railroads and buildings, focusing on excavation and settlement mitigation with strict adherence to movement tolerances and load specifications. Total Fees - \$1.4B		

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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Frank M. Munoz, MBA	13. ROLE IN THIS CONTRACT Task Manager	14. YEARS EXPERIENCE	
		a. TOTAL 23.5	b. WITH CURRENT FIRM 3.5
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - San Antonio, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Business Administration Bachelor of Business Administration		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ICC Spray Applied Fire Proofing Special Inspector PT Level I and II Unbonded Inspector FACE Certified Floor Profiler ACI Certified Field Grade I Nuclear Density Gauge Operator Project Manager Certification			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. City of Floresville, Roadway Reconstruction of Peach Street and F-Street, Floresville, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm ECS provided construction materials testing and observation for the full-depth roadway reconstruction of Peach Street from 4th Street to Goliad Street and F-Street from 3rd Street to State Highway 97. ECS' scope included roadway full-depth reconstruction for subgrade, flexible base, and asphalt. Mr. Munoz served as project manager. ECS Fees - \$8,758		
b. SAWS 8" Public Water Main Loop, San Antonio, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm ECS provided construction materials testing and observation for quality control on the proposed 8" Public Water Main Loop. The project consisted of the installation of an 8" public water main loop that included excavation, placement, and backfill of the public water main loop. The line included bedding material, initial backfill, testing of secondary soil backfill, asphalt treated base and Type D asphalt. Mr. Munoz served as project manager. ECS Fees - \$4,416		
c. USCIS Field Office, Edinburg, TX	2023	2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Munoz served as the Project Manager for construction materials observation services for the U.S. Citizenship and Immigration Services field office. ECS' services consisted of providing a Certified Welding Inspector to provide structural steel observations for the subject building. ECS Fees - \$7,500		
d. Methodist Hospital Cath and OR Expansion, San Antonio, TX	Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Mr. Munoz is currently serving as the Project Manager for construction materials testing and observation services for the Methodist Hospital Stone Oak expansion. The project consists of a single-story brick expansion supported by a drilled pier foundation system and steel canopy structure. In addition to the building, there is associated site work, including site grading, asphaltic paving, and sidewalks. ECS' current services scope includes earthwork/foundations, cast-in-place concrete, reinforcing steel, masonry, fireproofing, structural steel, and field and laboratory services. ECS Fees - Ongoing		
e. S. Llano River State Park HQ Building Reno and Expansion, Junction, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm ECS delivered construction observation and materials testing for a new headquarters and tube storage building, including utility, sidewalk, and pump station extensions. Their services encompassed earthwork, foundation, structural steel, and concrete observations, along with field and laboratory concrete testing. Mr. Munoz was the principal reviewer for this project. ECS Fees - \$42,288		

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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Marc Gomez	13. ROLE IN THIS CONTRACT Task Manager	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - Austin, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) N/A		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TXDOT: 12.1.1, 12.1.4 ACI Concrete Testing Laboratory Technician, Grade 1 HMAC Level 1A Plant Mix Specialist HMAC Level 1B Roadway Specialist HMAC SB102 Field Specialist OSHA 10-hour			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) Hwy 71 Expansion (12.1.4), Austin, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Toll Lane Additions: While on this project near Austin Bergstrom Airport, Mr. Gomez performed concrete placement and Thin Overlay Mix observation. Total Cost - \$140 Million		
b.	(1) TITLE AND LOCATION (City and State) Various Plants (12.1.1), Various Locations, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE From county state roads to in-town state roads and various state highways. Mr. Gomez worked with various TxDOT Offices from Corpus Christi District, working out of the Victoria, TX and Three Rivers Plant. San Antonio and Austin District out of the San Marcos, TX Plant. Yoakum District office is out of Victoria Plant, and the TARMAAC Plant is in Rosenberg. He worked with multiple mix designs: TY-D, Ty-B, Ty-C, Ty-F, TOM, LRA, SMA, and PFC, along with different compaction methods: Super Pave, TGC, and Marshall. Total Cost - N/A		
c.	(1) TITLE AND LOCATION (City and State) Plum Creek Uptown Phase 1B Infrastructure, Kyle, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ECS provided construction materials observation and testing services for the Plum Creek Uptown Phase 1B Infrastructure project in Kyle, Texas. It involved extending two rights of way to connect new multifamily lots within the Plum Creek PUD. This project includes necessary improvements in transportation, grading, drainage, and utilities. Mr. Gomez served as a field technician. ECS Fees - \$14,923.32		
d.	(1) TITLE AND LOCATION (City and State) City of Austin, Highland Park Water and Wastewater Improvements – Phase 2, Austin, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ECS provided construction materials observation and testing services for the City of Austin, Highland Park Water and Wastewater Improvements – Phase 2. Our scope of work included earthwork, concrete, and asphalt. Mr. Gomez served as a field technician. ECS Fees - \$32,227.05		
e.	(1) TITLE AND LOCATION (City and State) State Highway Improvements for FM 973, Austin, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) 2024
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ECS provided construction materials observation and testing services for construction of dual left turn lanes along FM 973. Construction consisted of grading, base, asphalt pavement, embankment, signage and pavement markings. The limits of construction are approximately 942 linear feet. Our scope of services included fill and backfill, lime treated subgrade, cast-in-place concrete, and HMAC testing. Mr. Gomez served as a field technician. ECS Fees - \$13,672.35		

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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Thomas Hartnagel	13. ROLE IN THIS CONTRACT Assistant Lab Manager	14. YEARS EXPERIENCE	
		a. TOTAL 6	b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) ECS Southwest, LLP - San Antonio, TX			
16. EDUCATION (DEGREE AND SPECIALIZATION) N/A		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TXDOT: 12.1.6 ACI Aggregate Testing Technician, Level 1 TxDOT SB101 Properties Specialist ACI Concrete Testing Laboratory Technician, Grade 1 TxDOT SB102 Field Specialist TxDOT SB103 Materials Analyst TxDOT SB201 Moisture Density Specialist			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a. TxDOT Quarries, Central Texas	2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Multiple TxDot Quarries: In Base production, Mr. Hartnagel pretested samples for TxDOT for many quarries in Central Texas, such as TCS, Texas Material, Colorado Material, etc. That included running TEX-100-E, TEX-101-E, TEX-104-E, TEX-105-E, TEX-106-E TEX-110-E, TEX-113-E, TEX-116-E, TEX-117-E. Total Cost - N/A		
b. City of Austin, Brentwood W&WW Pipeline Renewal Arcadia Avenue, Austin, TX	2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project replaced about 9,500 LF of water lines and 6,500 LF of wastewater lines. In addition, approximately 1,200 LF of wastewater lines were rehabilitated. ECS provided construction materials testing services for the project, including earthwork monitoring and testing, concrete and hot-mixed asphalt testing, and observations. Mr. Hartnagel served as a field technician. ECS Fees - \$39,768		
c. Oak Hill Parkway, Austin, TX	2023	2023
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ECS provided construction materials observation and testing services for the construction for the Oak Hill Parkway Improvement. It included several upgrades to existing US 290 and Texas 71 mainlanes, new overpasses, flyovers, U-Turn lanes, intersections, bicycle and pedestrian accommodations, an off-site stormwater detention pond, multiple water quality treatment ponds, and new landscapes. Our scope of services included soils tests, concrete and cement tests, field services, and engineering/support services. Mr. Hartnagel served as a field technician. ECS Fees - \$181,637		
d. City of Austin, Emergency Right-of-Way Repairs Austin Hilton, Austin, TX	2021	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Emergency Right-Of-Way Repairs Austin Hilton was a mitigation project comprised of a series of piers, in the Right-of-Way, along the perimeter of the existing Austin Hilton Hotel building with concrete beams cast on top of the piers. ECS staffed the project with an Engineer in Training to observe the excavation of drilled shafts, ACI certified technicians to observe reinforcing steel and monitor concrete placements for piers and grade beams, NICET Soils Level II technicians to observe the placement and compaction of select fill soils beneath the voids below the concrete beams, and a Project Manager to attend weekly progress meeting on-site with the construction team. Mr. Hartnagel served as field technician. ECS Fees - \$83,362		
e. City of Kyle, Public Safety Center, Kyle, TX	2022	2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ECS provided construction materials testing services for the proposed Kyle Public Safety Center. The project consists of the construction of a two-story police headquarters building, parking area pavements, and associated utilities and appurtenances. Scope of services include earthwork/soils, cast-in-place deep foundations, concrete, structural steel, structural masonry, mastic and in-tumescent coatings, exterior insulation and finish systems (EIFS), and sprayed fire resistant materials. Mr. Hartnagel served as field technician. ECS Fees - \$91,800		

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 1

21. TITLE AND LOCATION (City and State) FSH Military Working Dog Kennels, San Antonio, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Harrison Walker & Harper	b. POINT OF CONTACT NAME Stoney Johnson	c. POINT OF CONTACT TELEPHONE NUMBER 903.517.5955
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS is currently providing construction materials testing and observation for the proposed FSH Military Working Dog Kennel in San Antonio, TX. Our proposal includes the anticipated construction materials testing for contractor quality control on a call out as needed basis. This project involves the development of a 5,100 sf pre-engineered metal building that is supported by a robust concrete drilled pier and slab on grade foundation system. Key components of the associated site work include the construction of a bleacher foundation, an obstacle course, comprehensive underground utilities, as well as the development of pavement parking and drive sections. Our involvement is specifically tailored to offer contractor quality control through construction materials testing, which will be conducted on a call-out basis as required. Our team is committed to delivering high-quality services and will provide experienced and qualified technical personnel to perform the necessary testing services. These services will be conducted as requested by the onsite representative and will adhere strictly to the project specifications. Our services are designed to align with typical quality control standards set by testing agencies, adhering to ASTM E329 standards. The scope of services includes earthwork/ foundations, cast-in-place concrete, reinforcing steel, masonry, fireproofing, and structural steel.

ECS Fees: Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 2

21. TITLE AND LOCATION (City and State) Energy Aerospace Operations Facility (Lackland Air Force Base), San Antonio, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) 2019

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER USACE - Fort Worth District (SWF)	b. POINT OF CONTACT NAME David Dickson	c. POINT OF CONTACT TELEPHONE NUMBER 210.673.5169
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS provided construction materials testing and special observation services for the new operations facility project at Lackland Air Force Base in San Antonio, Texas. This project features the construction of an approximately 21,500 sf facility, designed to enhance operational capacities at the base. The superstructure of the facility is primarily composed of structural steel framing, providing robust support and durability. The exterior walls are constructed from cold-formed metal framing adorned with a brick veneer, offering both aesthetic appeal and structural integrity. A significant foundation component is the 30-inch thick cast-in-place steel-reinforced concrete mat foundation, designed to confirm stability and longevity. The scope of services included foundations, reinforcing steel, cast-in-place concrete, pre-cast concrete panels, masonry (screen wall), fill and backfill for the building pad.

ECS Fees: \$72,533

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 3

21. TITLE AND LOCATION (City and State) Laredo Border Patrol Checkpoint, Laredo, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Villagomez Engineering Company	b. POINT OF CONTACT NAME Jose Villagomez	c. POINT OF CONTACT TELEPHONE NUMBER 210.724.0816
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS completed the subsurface exploration, laboratory testing, and geotechnical engineering analyses for the Laredo Checkpoint facility upgrade project. The primary focus of this project is to enhance the existing Laredo Checkpoint facility. Proposed improvements include the upgrading and maintenance of the on-site administration facility and the widening of existing concrete pavements at the off-ramps and on-ramps to IH-35. Additionally, the existing canopy system will be extended to accommodate new traffic lanes, aligning with the existing construction. Further enhancements will involve the creation of new site parking and a secure impound parking lot for improved operational efficiency. Our comprehensive report details the procedures and findings from our subsurface exploration and laboratory testing initiatives. The report provides strategic recommendations for the development of foundations, earthworks, and parking/drive areas tailored to the proposed upgrades.

Key elements of the report include:

- A concise overview and description of our field and laboratory test procedures and the outcomes
- Analyses of surface features and site conditions to confirm compatibility with proposed improvements
- Investigations into area and site-specific geologic conditions
- Examination of subsurface soil stratigraphy with relevant physical properties highlighted in our soil exploration boring logs
- Recommendations for site preparation, grading, and drainage to enhance the site's utility and sustainability
- Guidelines for the design and construction of foundations and structural pavements to support the new developments effectively

ECS Fees: \$12,455

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Geotechnical (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 4

21. TITLE AND LOCATION (City and State) QC Testing for TxDOT Oak Hill Parkway, Austin, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Colorado River Constructors	b. POINT OF CONTACT NAME Sudeep Mukherjee	c. POINT OF CONTACT TELEPHONE NUMBER 737.226.6431
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS is currently providing quality control testing services during the construction phase of the TxDOT Oak Hill Parkway project. The Oak Hill Parkway Improvement will include several upgrades to existing US 290 and Texas 71 mainlanes, new overpasses, flyovers, U-Turn lanes, intersections, bicycle and pedestrian accommodations, an offsite stormwater detention pond, multiple water quality treatment ponds, and new landscapes. Our scope of services includes bonded PT observation and testing, concrete and grout trial batch mix verification, qualification testing of aggregates related to alkali silica reaction, proof load testing, concrete mix properties and strength verification, drilled pier observation and testing, hot mix asphalt mix verification, proctor and density testing. We are performing quality control testing of soils, aggregates, and concrete for the TxDOT project. ECS has performed these specialty inspections utilizing PTI Level II, ACI, and SB102-certified inspection personnel.

ECS Fees: Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) Austin, TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 5

21. TITLE AND LOCATION (City and State) City of Floresville, Street Reconstruction Project, Floresville, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Triun, LLC	b. POINT OF CONTACT NAME Stuart Anderson	c. POINT OF CONTACT TELEPHONE NUMBER 979.820.5194
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS provided a geotechnical evaluation to assist with the design and re-construction of two existing city streets. The study included soil borings along the existing roadways to determine the existing pavement sections and review the subgrade soils along the alignment. ECS developed design alternatives for use by the project civil engineer to select the most economical design section for use on the project. We provided traffic control measures to allow our work to be completed during normal work hours with minimal disruptions to the local residents. ECS also provided construction materials testing and observation on the proposed City of Floresville Roadway Reconstruction of Peach Street and F Street. The project consisted of a complete roadway reconstruction of Peach Street from 4th Street to Goliad Street and F-Street from 3rd Street to State Highway 97. ECS' scope included roadway depth reconstruction for subgrade, flexible base, and asphalt.

ECS Fees: \$15,308

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Geotechnical and Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 6

21. TITLE AND LOCATION (City and State) City of San Antonio, Ingram Road Intersection Improvements, San Antonio, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2024	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Johnson, Mirmiran & Thompson (JMT)	b. POINT OF CONTACT NAME Rhys Keller	c. POINT OF CONTACT TELEPHONE NUMBER 726.222.5780
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS conducted subsurface exploration, laboratory testing, and geotechnical engineering analyses for the reconstruction of two city streets in San Antonio, Texas, within District 6. The streets involved are Military Drive, approximately one mile, and Ingram Road, approximately 0.6 miles. Our comprehensive geotechnical study aimed to deliver vital information to aid the design and reconstruction of these city streets. The scope of our work included conducting eight soil borings to depths ranging from 10 to 15 feet below the existing ground surface, along with core sampling at four distinct locations. Our report starts with a concise overview that describes the procedures and outcomes of our field and laboratory tests. We reviewed surface features, site conditions, and area geology to consider any factors influencing the project. We conducted a detailed review of the subsurface soil stratigraphy, highlighting pertinent physical properties through our soil test boring logs. Our team provided pivotal engineering analyses, which formed the basis for our recommendations concerning site preparation, grading, drainage, and the pavement design thickness. These efforts are designed to confirm that the reconstruction of Ingram Road and Military Drive West meets required specifications and standards, providing durable and reliable infrastructure for the City of San Antonio.

ECS Fees: \$24,291

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Geotechnical (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 7

21. TITLE AND LOCATION (City and State) San Antonio Water System Echtle Offsite Sewer Extension, San Antonio, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER D Guerra Construction LLC	b. POINT OF CONTACT NAME Ted Zamora Jr.	c. POINT OF CONTACT TELEPHONE NUMBER 512.467.9357
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS is providing construction materials testing and observation for the proposed Echtle Offsite Sewer Extension. The project will consist of the replacement of 15,490 lineal feet of 30" sewer main and related infrastructure along Masterson Road. ECS' scope of work for contractor quality control includes soil backfill compaction testing, and aggregate testing.

ECS Fees: Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) San Antonio, TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 8

21. TITLE AND LOCATION (City and State) DFW Open Channel Improvements, DFW Airport, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION (If applicable) 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Reyes Group	b. POINT OF CONTACT NAME Olu Ogunsola	c. POINT OF CONTACT TELEPHONE NUMBER 214.587.1986
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS provided construction materials testing and testing services for the DFW Open Channel improvement project at DFW Airport. The proposed development consisted of the construction of an approximately 30,000 cubic yard excavation, approximately 25,000 cubic yard embankment, and approximately 600 cubic yards of various concrete repairs. Our scope of services included construction materials observation and testing for earthwork, reinforcing steel and cast-in-place concrete structures, retaining walls (gabion), gabion walls.

ECS Fees: \$179,690

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) Dallas (Carrollton), TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 9

21. TITLE AND LOCATION (City and State) Airfield Ramp Efficiencies and NE Airfield Lighting Vault Relocation: Terminal C-South (Infield #1), Terminal A-North (Infield #4 and Taxiway JY) and Proposed Airfield Lighting Vault, DFW Airport, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Reyes Group	b. POINT OF CONTACT NAME Shankar Narayanan	c. POINT OF CONTACT TELEPHONE NUMBER 214.260.3535
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consists of the relocation of the Northeast Airfield Lighting Vault, construction of more than 60,000 linear feet of new airfield lighting duct bank, 65,000 SY of demolition/reconstruction of portions of Terminal C-South Infield #1 and Terminal A-North Infield #4 Apron, demolition/reconstruction of portions of Taxiway JY, installation of several thousand feet of sanitary sewer, water, electric, and communication utilities. ECS is responsible for the contractor quality control program, staffing the project with a quality manager, field inspectors and materials testing technicians.

Actions Leading to Cost Savings:

Concrete Placement Continuation for a Cast-In-Place (CIP) Retaining Wall – During the construction of a segment of a CIP retaining wall at the new Vault location, concrete delivery was delayed for a period of time due to traffic issues along the delivery route to the project. The DFW Airport QA team directed that concrete wall construction terminate based on the concrete delivery delay and their belief that a cold joint had occurred in the retaining wall's vertical stem. Based on observations and activities performed by the ECS quality manager and inspector on-site during construction, the decision was made by the contractor quality team to continue wall construction. Once the wall forms were removed, no indication of a cold joint was observed, thereby validating that the decision to continue wall construction was the right decision. The decision to continue wall construction saved the contractor about \$100K in demolition and reconstruction costs and avoided several weeks of project delay, which benefits the parties to construction, including the DFW Airport.

Groundwater Issues Encountered During CIP Retaining Wall Construction – During the excavation of a considerable portion of the Vault CIP retaining wall footing and keyway, groundwater seepage and soil sloughing into the keyway excavation creating a nonconforming foundation issue that needed resolution. The ECS quality team and senior geotechnical staff provided recommendations for groundwater control measures that, when deployed, provided the required time to form the footing/keyway, fabricate/place the reinforcing steel and place the concrete in the dry. These remedial recommendations/actions averted several weeks of potential project delays.

ECS Fees: Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) Dallas (Carrollton), TX	(3) ROLE Materials Testing (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT
 (Present as many projects as requested by the agency, or 10 projects, if not specified.
 Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER
 10

21. TITLE AND LOCATION (City and State) SH 130 Frontage Road Braided Ramp, Austin, TX	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Confidential Client	b. POINT OF CONTACT NAME N/A	c. POINT OF CONTACT TELEPHONE NUMBER N/A
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

ECS completed comprehensive subsurface exploration, laboratory testing, and geotechnical engineering analyses for the SH-130 NBML grade-separated exit ramp project. Our involvement during the design phase has been instrumental in providing important geotechnical information needed for the effective design and construction of this infrastructure. The project encompasses the development of a grade-separated exit ramp from the existing SH-130 northbound main lane (NBML), which is supported by approximately 1,600 linear feet of mechanically stabilized earth (MSE) retaining walls and includes a 650-linear foot bridge. Additionally, the design incorporates 1,400 linear feet of 3:1 slope located south of the ramp, along with a roadway sign and related appurtenances. Our geotechnical service report offers a detailed review and description of the field and laboratory testing procedures employed, along with the results of these tests. Included in our final deliverables are the soil test boring logs which provide a comprehensive view of the subsurface conditions. Key recommendations have been made for site preparation, grading, drainage, foundation design and construction, and pavement design and construction. The report also includes external stability analyses and recommendations for the MSE retaining walls and a global stability analysis of the slopes. This project is a testament to ECS' commitment to delivering high-quality geotechnical services that confirm safety, reliability, and efficiency in infrastructure development.

ECS Fees: \$86,690

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ECS Southwest, LLP	(2) FIRM LOCATION (City and State) Austin, TX	(3) ROLE Geotechnical (Prime)
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STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS											
26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F. (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
James R. Dedrick, PE	Point of Contact, Principal Engineer				X						
Matthew Robbins, PE	Principal Engineer		X	X		X		X			
Rene Gonzales, PE	Principal Engineer		X	X		X	X				
Richard Webb, PE	Principal Engineer					X	X				X
Siddharth Neekhra, PE	Quality Control								X	X	
Sri Dinakaran, PE, BCGE, DBIA, F.ASCE	Principal Reviewer										X
Noel Janacek, PE	Principal Reviewer										X
Frank M. Munoz, MBA	Project Manager	X				X					
Marc Gomez	Project Manager				X						
Thomas Hartnagel	Assistant Lab Manager				X						

29. EXAMPLE PROJECTS KEY			
No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	FSH Military Working Dog Kennels, San Antonio, TX	6	City of San Antonio, Ingram Road Intersection Improvements, San Antonio, TX
2	Energy Aerospace Operations Facility (Lackland Air Force Base), San Antonio, TX	7	San Antonio Water System Echtle Offsite Sewer Extension, San Antonio, TX
3	Laredo Border Patrol Checkpoint, Laredo, TX	8	DFW Open Channel Improvements, DFW Airport, TX
4	QC Testing for TxDOT Oak Hill Parkway, Austin, TX	9	Airfield Ramp Efficiencies and NE Airfield Lighting Vault Relocation: Terminal C-South (Infield #1), Terminal A-North (Infield #4 and Taxiway JY) and Proposed Airfield Lighting Vault, DFW Airport, TX
5	City of Floresville, Street Reconstruction Project, Floresville, TX	10	SH 130 Frontage Road Braided Ramp, Austin, TX

STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

ABOUT OUR COMPANY

LOCAL: ECS Southwest, LLP is a premier provider of geotechnical engineering, construction materials testing, environmental consulting and facilities engineering services across Texas, Oklahoma, Colorado, Utah and Arizona. With more than 400 employees and over 35 years of experience, ECS is equipped to help clients through the entire project cycle for both the private and public sectors.

COMPANY: Founded in 1988, ECS Southwest, LLP is one of the operating entities of the ECS Group of Companies. ECS operates in 90+ locations throughout Eastern, Southeastern, Southwestern, and Midwestern states. Utilizing the strengths, experience, and expertise of staff across the company, ECS is able to save our clients time and money.

ECS CORE SERVICES

- Geotechnical
- Environmental
- Construction Materials
- Facilities

OUR VALUE

ECS embodies its philosophy of “Helping you build while helping you save” by using technology and experience to assist clients in the development of cost-effective and practical solutions. For nearly three decades, our value engineering consulting has resulted in our clients saving millions of dollars on projects.

14+
locations

35+
years' experience

400+
employees

SAFETY PROGRAM

Our **STAR** Safety Program is a behavior-based process in which employees observe coworkers regularly to reinforce good safety practices, as well as identify and correct unsafe practices that might lead to injury.

Each office has a trained Safety Officer who oversees their **STAR** Safety Program, trains new employees in the **STAR** process, conducts frequent safety meetings, promotes participation by our employees and performs office/ field audits

ADDITIONAL INFORMATION

For additional information regarding ECS, please see pages 2-34 of the “Statement of Qualification”.

I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts

31. SIGNATURE

32. DATE

6.13.2024

33. NAME and TITLE

Matthew Robbins, PE | Principal / Vice President

STANDARD FORM 330 (REV. 7/2021)

STATEMENT OF QUALIFICATION



ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any)		
				SOQ – CMT Lab and Forensic Services – 2024-05		
PART II - GENERAL QUALIFICATIONS						
(If a firm has branch offices, complete for each specific branch office seeking work.)						
2a. FIRM (OR BRANCH OFFICE) NAME				3. YEAR ESTABLISHED	4. UNIQUE IDENTIFICATION	
ECS Southwest, LLP – San Antonio				2017	RZ7YPZQHBD9	
2b. STREET				5. OWNERSHIP		
431 Isom Road, Suite 114				a. TYPE		
2c. CITY		2d. STATE	2e. ZIP	Partnership		
San Antonio		TX	78216	b. SMALL BUSINESS STATUS		
6a. POINT OF CONTACT NAME AND TITLE				N/A		
Matt Robbins, PE – Branch Manager/Principal Engineer				7. NAME OF FIRM (if block 2a is a branch office)		
6b. TELEPHONE NUMBER		6c. E-MAIL ADDRESS		ECS Southwest, LLP		
210-528-1430		MRobbins@ecslimited.com				
8a. FORMER FIRM NAME(S)				8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEE BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
2	Administrative	34	3	H11	Housing (Residential, Multi-Family, Apartments, Condominiums)	7
6	Architect	2	1	C10	Commercial Buildings (low rise), Shopping Centers	6
8	AutoCAD			T02	Testing & Inspection Services	5
	Construction Materials Manager	8	1	I01	Industrial Buildings, Manufacturing Plants	5
	Drillers	1		H06	Highrise, Air-Rights-Type Buildings	4
24	Environmental Scientist	11		W01	Warehouses & Depots	4
	Environmental Technician			E09	Environmental Impact Studies, Assessments or Statements	4
	Field Technicians	214	24	O01	Office Buildings, Industrial Parks	4
30	Geologist	5	1	H07	Highways, Streets, Airfield Paving, Parking Lots	3
36	Industrial Hygiene	7		S05	Soils & Geologic Studies, Foundations	3
	Lab Manager/Technician	36	3	E13	Environmental Testing and Analysis	3
	Professional Engineer	34	3	A06	Airports, Terminals & Hangars, Freight Handling	3
48	Project Manager	58	8	H10	Hotels, Motels	3
	Soils Engineer			H09	Hospitals & Medical Facilities	2
				G01	Garages, Vehicle Maintenance Facilities, Parking Decks	2
				R04	Recreation Facilities (Parks, Marinas, etc.)	2
				S06	Solar Energy Utilization	2
				W03	Water Supply, Treatment and Distribution	2
				P12	Power Generation, Transmission, Distribution	2
				D07	Dining Halls, Clubs, Restaurants	2
TOTAL		410	44			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)			PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	3	1. Less than \$100,000	6. \$2 million to less than \$5 million			
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million			
c. Total	8	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million			
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million			
		5. \$1 million to less than \$2 million	10. \$50 million or greater			
12. AUTHORIZED REPRESENTATIVE						
The foregoing is a statement of facts.						
a. SIGNATURE			b. DATE			
			6.10.24			
c. NAME AND TITLE						
Matt Robbins, PE – Branch Manager/Principal Engineer						

STANDARD FORM 330 (REV: 7/2021)

STATEMENT OF QUALIFICATION



ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any)		
				SOQ – CMT Lab and Forensic Services – 2024-05		
PART II - GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>						
2a. FIRM (OR BRANCH OFFICE) NAME ECS Southwest, LLP - Austin			3. YEAR ESTABLISHED 2017		4. UNIQUE ENTITY IDENTIFIER RZ7YPZQBK9D	
2b. STREET 14050 Summit Drive, Suite 101			5. OWNERSHIP			
2c. CITY Austin		2d. STATE TX	2e. ZIP 78728		a. TYPE Partnership	
6a. POINT OF CONTACT NAME AND TITLE Michael Sorgenfrei, PE, PG – Office Manager/Vice President			b. SMALL BUSINESS STATUS N/A			
6b. TELEPHONE NUMBER 512-837-8005		6c. E-MAIL ADDRESS MSorgenfrei@ecslimited.com		7. NAME OF FIRM (if block 2a is a branch office) ECS Southwest, LLP		
8a. FORMER FIRM NAME(S)			8b. YR. ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEE BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
2	Administrative	34	6	H11	Housing (Residential, Multi-Family, Apartments, Condominiums)	7
6	Architect	2		C10	Commercial Buildings (low rise), Shopping Centers	6
8	AutoCAD			T02	Testing & Inspection Services	5
	Construction Materials Manager	8	2	I01	Industrial Buildings, Manufacturing Plants	5
	Drillers	1	1	H06	Highrise, Air-Rights-Type Buildings	4
24	Environmental Scientist	11	3	W01	Warehouses & Depots	4
	Environmental Technician			E09	Environmental Impact Studies, Assessments or Statements	4
	Field Technicians	214	40	O01	Office Buildings, Industrial Parks	4
30	Geologist	5	2	H07	Highways, Streets, Airfield Paving, Parking Lots	3
36	Industrial Hygiene	7		S05	Soils & Geologic Studies, Foundations	3
	Lab Manager/Technician	36	9	E13	Environmental Testing and Analysis	3
	Professional Engineer	34	4	A06	Airports, Terminals & Hangars, Freight Handling	3
48	Project Manager	58	8	H10	Hotels, Motels	3
	Soils Engineer			H09	Hospitals & Medical Facilities	2
				G01	Garages, Vehicle Maintenance Facilities, Parking Decks	2
				R04	Recreation Facilities (Parks, Marinas, etc.)	2
				S06	Solar Energy Utilization	2
				W03	Water Supply, Treatment and Distribution	2
				P12	Power Generation, Transmission, Distribution	2
				D07	Dining Halls, Clubs, Restaurants	2
TOTAL		410	75			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	3	1. Less than \$100,000	6. \$2 million to less than \$5 million			
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million			
c. Total	8	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million			
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million			
		5. \$1 million to less than \$2 million	10. \$50 million or greater			
12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.						
a. SIGNATURE 			b. DATE 6.10.24			
c. NAME AND TITLE Michael Sorgenfrei, PE, PG – Office Manager/Vice President						

STATEMENT OF QUALIFICATION



ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any)		
				SOQ – CMT Lab and Forensic Services – 2024-05		
PART II - GENERAL QUALIFICATIONS						
<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>						
2a. FIRM (OR BRANCH OFFICE) NAME ECS Southwest, LLP - Dallas			3. YEAR ESTABLISHED 2005		4. UNIQUE ENTITY IDENTIFIER RZ7YPZQHBKD9	
2b. STREET 3033 Kellway Drive, Suite 110			5. OWNERSHIP			
2c. CITY Carrollton			a. TYPE Partnership			
2d. STATE TX		2e. ZIP 75006		b. SMALL BUSINESS STATUS N/A		
6a. POINT OF CONTACT NAME AND TITLE Vince Elizarde, PE – Office Manager/Vice President			7. NAME OF FIRM (if block 2a is a branch office) ECS Southwest, LLP			
6b. TELEPHONE NUMBER 972-392-3222		6c. E-MAIL ADDRESS VELizarde@ecslimited.com				
8a. FORMER FIRM NAME(S)			8b. YR. ESTABLISHED		8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEE BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
2	Administrative	34	15	H11	Housing (Residential, Multi-Family, Apartments, Condominiums)	7
6	Architect	2		C10	Commercial Buildings (low rise), Shopping Centers	6
8	AutoCAD			T02	Testing & Inspection Services	5
	Construction Materials Manager	8	2	I01	Industrial Buildings, Manufacturing Plants	5
	Drillers	1		H06	Highrise, Air-Rights-Type Buildings	4
24	Environmental Scientist	11	6	W01	Warehouses & Depots	4
	Environmental Technician			E09	Environmental Impact Studies, Assessments or Statements	4
	Field Technicians	214	78	O01	Office Buildings, Industrial Parks	4
30	Geologist	5	1	H07	Highways, Streets, Airfield Paving, Parking Lots	3
36	Industrial Hygiene	7	4	S05	Soils & Geologic Studies, Foundations	3
	Lab Manager/Technician	36	14	E13	Environmental Testing and Analysis	3
	Professional Engineer	34	15	A06	Airports, Terminals & Hangars, Freight Handling	3
48	Project Manager	58	23	H10	Hotels, Motels	3
	Soils Engineer			H09	Hospitals & Medical Facilities	2
				G01	Garages, Vehicle Maintenance Facilities, Parking Decks	2
				R04	Recreation Facilities (Parks, Marinas, etc.)	2
				S06	Solar Energy Utilization	2
				W03	Water Supply, Treatment and Distribution	2
				P12	Power Generation, Transmission, Distribution	2
				D07	Dining Halls, Clubs, Restaurants	2
TOTAL		410	158			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)			PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	3	1. Less than \$100,000		6. \$2 million to less than \$5 million		
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million		
c. Total	8	3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million		10. \$50 million or greater		
12. AUTHORIZED REPRESENTATIVE						
The foregoing is a statement of facts.						
a. SIGNATURE 			b. DATE 6.10.24			
c. NAME AND TITLE Vince Elizarde, PE – Office Manager/Vice President						

STANDARD FORM 330 (REV: 7/2021)

14) Describe the Prime Firm's proven ability to deliver quality testing on time and at the least cost to the Owner.

ECS is a leader in developing the people, systems, and expertise that allow us to focus on our clients' needs. Our expertise spans the nation and multiple industry sectors. Our commitment is to provide high quality and innovative services. Our mission is to be the consulting firm of choice in the markets we serve. **ECS embodies its philosophy of "Setting the Standard for Service" by using technology and experience to assist clients in the development of cost-effective, practical solutions.** For over three decades, our engineering consulting services have helped our clients meet project requirements.

APPROACH

Once a project is initiated, it is ECS' protocol to assign at least two managers to a project, regardless of size or complexity. The project leadership team would typically include a project manager and a senior associate. In addition to quality control, this layered management confirms that there will be more than one person that can be immediately contacted, if necessary. In addition, with the depth of talent on our staff, if both managers of a project are unavailable, other Project Managers or Principals will become involved on short notice to solve issues needing immediate resolution.

ECS' principals lead the project teams and are involved in the day-to-day decisions and interactions with clients, for this project will focus on enhanced communication, coordination, and delivery of quality services to the HCRMA. Our project team will effectively and proactively reach out to the HCRMA staff from the start of the project. Communication on a site becomes paramount due to the proximity of the service activities and will be accomplished through focused meetings with the appropriate representatives and public meetings, as necessary. Our team will meet with representatives before beginning the work to listen to concerns and open the necessary channels of communication.

As task orders are requested, it is assumed that the work order will flow from a project manager with the HCRMA to Mr. James Dedrick, PE, ECS' dedicated Point of Contact and Project Manager. Mr. Dedrick will have the regional capability to evaluate and draw the properly licensed individuals as needed, thereby confirming short turnaround task orders can be staffed as they arise. ECS will develop a scope based on the specific task being requested. ECS will communicate with the HCRMA and other design professionals involved in the project to develop a scope that satisfies the needs of the client and design and construction team. ECS will develop a proposal using our contract rates. Once this is submitted and confirmed, ECS will coordinate site access to perform the work or other logistical needs.

The assigned Principal and Task Manager will manage the work and maintain constant communication with the subconsultant teaming partners. The Principal, who will be a licensed professional, will review the work products and provide consultation as needed. This layered management also confirms that there will be more than one person available who is familiar with the project and can lend assistance.

During the course of the work, ECS will generate reports documenting activities and providing recommendations. For construction testing and observation projects, our technician or engineer will upload the field report from the site, attach supporting documents and submit the report to the Task Manager for review through our field report generation and distribution system. This system allows for easy access to project documents and tracking of deficiencies associated with materials testing (soils, concrete, masonry, etc.) and project observations. Reports will be filed using ECS' e-file system and can therefore be readily available for retrieval if requested by the HCRMA. Invoices will be generated at the end of each month to track assigned tasks and hours worked so that our billings will be more transparent.



The ECS report was excellent; the attention to detail and interpretation of results is very much appreciated."

- Christina Schroeter
NC Dept. of Environmental Quality

ECS SYSTEMS

Data collection and tracking of results and observations are important to effective project-level decision-making for construction managers and the client. It is through our internally-developed software systems that we are able to keep our field and lab data organized and filed easily, as well as transmit it automatically to the identified parties. Our systems are web based and the data refresh rate is instant which allows the on-site project manager and the project principal to access the data remotely.

ECS utilizes a seamless, fully digital, in-house developed suite of software. Our systems are as follows:

FRED

FRED (Field Reporting and Electronic Distribution): The laboratory and field data is processed in FRED automatically once the specific information pertaining to a work order or lab test is uploaded and submitted to Project Management for review. Once approved by the Project Manager, the report is submitted to the Principal Engineer for their approval and signature. Then, the report is automatically transmitted to the recipients on the distribution list.

GEORGE

GEORGE (Geotechnical Report Generator): Our geotechnical laboratory utilizes GEORGE to manage the input, processing, and output of the results of our soils lab tests. From geotechnical subsurface investigations where a wide range of tests can be performed to gather physical properties of soils for design purposes to construction materials testing to get baseline values for comparative as-constructed evaluations, GEORGE is the one stop for the soil testing at ECS. Once data is input and approved in the lab, it enters the FRED system (see above) for Project Manager review.

ETHEL

ETHEL (ECS Technician Handheld Electronic Logbook): Our field technicians are equipped with tablets or touch-screen laptops to store their field testing results, observations, and communication. The ETHEL system is the platform for organizing this data into an easy to use interface that translates the entered information into our standard reports. Seamless transition and efficient workflow without transcription or time loss. As soon as the field data and field write up are completed, the field technician will attach digital photos and site location sketches then upload them wirelessly to our system. Upon completion of the upload, the automatically assembled reports are available in the FRED system for Project Manager's review.

IVAN

IVAN (Invoice Verification and Notification): On a monthly basis, our invoices are automatically prepared and are made available to our management team in an easy to use platform. IVAN, synchronized with GEORGE, ETHEL, and FRED, gathers the time and materials associated with our services and assembles the invoices for review. Following the initial setup of the project and execution of services, the invoice assembly process is simple and straight-forward, requiring very little manipulation or modification making for a rapid review and finalization process. The Project Manager performs the initial review and then approves for the Principal Engineer to do the same. Upon completion and approval by both the PM and the PE, the invoice is transmitted and copied to those set up to receive it. Being contained within the same electronic system, this process is simplified and operates with little complication.

ALF

ALF (Action Items, Letters, Follow-up): ALF serves as the central station for the above-mentioned systems. As the hub for the data movement, within ALF ECS staff can view the status of proposals, project contracts, document uploads, PTO for staff, and much more. ALF is also smart phone formatted in order to facilitate our Project Managers and Principal Engineers and their mobile operations. Our professional staff are connected to their projects with ease and through ALF, should the client, contractor, or project team need specific information or status, our ECS team can easily and quickly retrieve and provide it.

QUALITY ASSURANCE PROGRAM

ECS has a corporate-sponsored quality assurance program that it applies to its professional services. The program has been in place for more than 25 years and is guided by evolving our quality systems manuals for specific services. The key to maintaining high-quality services are the training and retention of experienced personnel. The use of currently calibrated equipment and adherence to industry standards is paramount to achieving quality. Mr. James Dedrick, PE, will organize ECS' quality assurance program. If requested, ECS will provide a copy of our Quality Control Manual and Quality Assurance Processes.

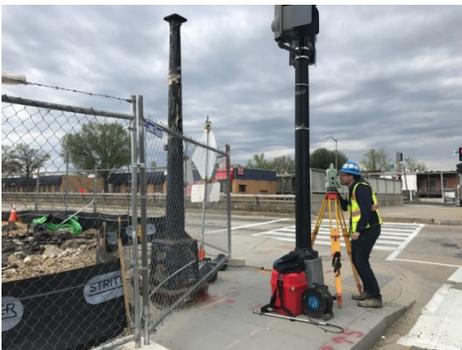
Our projects are directed by registered professional principal engineers or certified professional geologists. The quality assurance program relies on assessments in the form of internal and external audits, peer reviews, and sample reference programs. For large projects, ECS develops project-specific quality assurance project documents. ECS participates in or conducts numerous internal and external audits and assessments to enhance the credibility of our firm to support our commitment to continuous quality improvement. Each assignment issued under this contract with University will be implemented using our QA/QC program. **At ECS, it's not just about getting the job done – it's about getting the job done right.**

Construction Materials Testing (CMT) primarily involves testing structural materials used to build a new construction project from the ground up materials and components used to construct new structures, roadways, and other public works improvement features. The focus of ECS CMT monitoring services is designed to confirm that the materials within new elements meet the designer's intent and the owner's expectations. Materials used in construction projects must meet quality standards to comply with design specifications and jurisdictional requirements. You need assurance that the construction materials used in your projects will stand up to the load and bearing demands as well as traffic loadings that will be placed on them. This proactive approach can save time, money and aggravation. Our engineering technicians are certified through ACI, ICC and NICET.

ECS laboratories conduct soil and concrete testing associated with our CMT and geotechnical consulting engineering services. In addition to our internal training and certification programs, ECS laboratories participate in proficiency sample testing programs for soils, concrete and masonry. These are administered by various external agencies long recognized as leaders who set consistent industry standards, such as: American Association of State Highway and Transportation Officials (AASHTO), Materials Reference Laboratory (AMRL), Army Corps of Engineers (USACE), and the Cement and Concrete Reference Laboratory (CCRL).

With our fully digital, in-house developed CMT operating systems, our Field and Laboratory Reports can be prepared, processed, signed by our Project Manager, sealed by our Principal Engineer, and transmitted automatically to the distribution list in the same day.

ECS typical reports contain a synopsis of the project, a description of our scope of services, our findings and recommendations in regard to the services we provided. ECS' created systems provide consistent presentation of data, a smooth workflow for data review, and quick delivery of this information to the client. These systems allow the client, design team, and contractors to receive consistently formatted information from our offices. The electronic input and delivery systems, particularly during the construction phase, allow the design team to review potential problems in near real time to facilitate decision making that can save the client money and time.



COST CONTROL

ECS has performed geotechnical, construction materials testing on projects similar to the size and scope described in the RFQ. Because we have a comprehensive understanding of the requirements for performing these services on many and varied buildings, as reflected in our submitted projects and references, we are able to offer a very cost-effective product to our clients. Our staff, from the principals through task managers to the technicians, are well qualified and experienced with local governments. By having the proper personnel ready for immediate staffing, no time or effort is wasted in the initiation and performance of the required services for the HCRMA.

ECS staffs principal engineers and task managers with a wide-ranging engineering experience base which allows us to offer value-engineered solution alternatives to complex problems relating to property condition assessments. Through discussion with the HCRMA personnel and the development of sound working relationships as a part of the services, ECS can offer insight to alternative possibilities for systemic rehabilitation of the structures based on shared information with respect to the ultimate needs of the community and The HCRMA. It is our experience that understanding the needs of the client will offer the most cost-effective solution for a project.

ECS makes an effort to plan for the eventualities of complex assessment projects. However, when information is uncovered during the performance of the survey that has the potential to increase the cost of the project, it is our practice to have immediate discussions with the client. We understand being a good steward of the public's money is the responsibility of the contract officer as the representative of the HCRMA. ECS will offer practical alternatives to unexpected cost impacts to the contract for evaluation prior to requesting a change order and will work with the contract officer to arrive at a practical cost.



HISTORY OF MEETING SCHEDULE DEADLINES

ECS understands the importance of adhering to an established schedule and feels that the single greatest influencer of completing projects on time is communication. We understand and expect that with the contract there may be several task orders occurring concurrently and emergency situations may arise that require our services. Our proven approaches to set up a program that has project-committed key and staff personnel that can respond quickly to project assignments. Senior personnel are used, as needed, to complement the level of expertise required. Initially, we like to meet with client personnel to establish project protocols, lines of communications, and efficient methods for scheduling.



HISTORY OF STAYING WITHIN BUDGET

We understand that clients have strict budgets that must be adhered to. By careful management, reliance on our experience, and using productivity data, we have the capacity to stay within budget and utilize our proprietary software systems and monitor project costs in real time. ECS has done this time and again and have found this to be a successful technique to stay within budget.

15) Describe Prime Firm's ability to maintain ethical standards and industry best practices as it pertains to perceived or actual conflicts of interest in assigning tasks to Prime or Subconsultant staff that have previously provided Geotech or CMT services on the HCRMA "Construction Material Testing - 365 Tollway" Project

There is no conflict of interest. ECS is not one of the firms providing geotechnical or construction materials testing services on the 365 Tollway Project.



GEOTECHNICAL



CONSTRUCTION MATERIALS



ENVIRONMENTAL



FACILITIES

16) Respondents are required to file form CIQ Conflicts of Interest Questionnaire for Vendor and Other Persons Doing Business with Local Governmental Entity, with their proposal

CONFLICT OF INTEREST QUESTIONNAIRE		FORM CIQ
For vendor doing business with local governmental entity		
<p>This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.</p> <p>This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).</p> <p>By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.</p> <p>A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.</p>	OFFICE USE ONLY	
<p>1 Name of vendor who has a business relationship with local governmental entity.</p> <p style="text-align: center; margin-left: 40px;">ECS Southwest, LLP</p>	<p>Date Received</p>	
<p>2 <input type="checkbox"/> Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)</p>		
<p>3 Name of local government officer about whom the information is being disclosed.</p> <p style="text-align: center; margin-left: 100px;">N/A</p> <hr style="width: 30%; margin: 0 auto;"/> <p style="text-align: center; margin-left: 100px;">Name of Officer</p>		
<p>4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.</p> <p style="margin-top: 20px;">A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?</p> <p style="margin-left: 100px;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p> <p style="margin-top: 10px;">B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?</p> <p style="margin-left: 100px;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p>		
<p>5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.</p>		
<p>6 <input type="checkbox"/> Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).</p>		
<p>7</p> <p style="text-align: center; margin-left: 50px;">  _____ Signature of vendor doing business with the governmental entity </p>		<p>6.12.2024</p> <hr style="width: 100%;"/> <p>Date</p>

CONFLICT OF INTEREST QUESTIONNAIRE For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

- (i) a contract between the local governmental entity and vendor has been executed;
- or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

- (1) the date that the vendor:
 - (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
 - (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or
- (2) the date the vendor becomes aware:
 - (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
 - (B) that the vendor has given one or more gifts described by Subsection (a); or
 - (C) of a family relationship with a local government officer.



We challenge you and love the way you react to that. Giving us different options is really important to us and our business.

- Chris Urquhart
KDC



The people of ECS are experts with a wide-range of knowledge. I never hesitate using ECS on projects.

- Crystal Morphis
Creative Economic
Development
Consulting, LLC

17) HCRMA may not enter into a contract with a company for goods or services unless the contract contains a certification that the company does not boycott Israel and will not boycott Israel during the term of the contract
ECS does not boycott Israel and will not boycott Israel during the term of the contract.

18) HCRMA may not enter into a contract with a company that is identified on the Texas Comptroller of Public Accounts' list of companies that do business with Iran, Sudan, or designated foreign terrorist organizations
ECS is not a company identified on the Texas Comptroller of Public Accounts' list of companies that does business with Iran, Sudan, or designated foreign terrorist organizations.



**Statement of Qualification for
Construction Materials Testing
Laboratory Services and
Forensic Investigation and
Evaluation of In-Place
Construction Materials 365
Tollway Project**

June 14, 2024

**ATSER, LP
1150 RICHCREST DRIVE,
HOUSTON, TEXAS 77060
DAVID FREDERICK MARTINEZ, PH.D., P.E.,
CHIEF EXECUTIVE OFFICER
ATSERPROPOSALS@ATSER.COM
281.999.9961**

June 14, 2024

Ramon Navarro IV, P.E., CFM
Chief Construction Engineer
Hidalgo County Regional Mobility Authority (HCRMA)
203 W Newcombe Avenue
Pharr, Texas 78577

Dear Mr. Navarro,

ATSER, LP is pleased to express our interest in the opportunity to provide Construction Materials Testing (CMT) Laboratory Services and Forensic Investigation and Evaluation of In-Place Construction Materials for the 365 Tollway Project as outlined in your recent request for Statements of Qualification (SOQ) – CMT LAB AND FORENSIC SERVICES – 2024-05. ATSER, LP is excited about the potential to support HCRMA in this significant infrastructure initiative, and we are confident in our ability to deliver the high-quality services required.

ATSER, LP has extensive experience in construction material testing and forensic investigation, having successfully collaborated on numerous projects with the Texas Department of Transportation (TxDOT), Toll Authorities, and the U.S. Army Corps of Engineers (USACE). Our team includes certified professionals proficient in TxDOT and USACE testing procedures, ensuring that all project specifications and quality assurance requirements are meticulously met.

To further bolster our capabilities and ensure the highest level of service, we have partnered with HVJ Associates, Inc. as our subconsultant for this project. HVJ Associates, Inc. brings additional expertise and a proven track record in forensic investigation and construction material testing, particularly in the areas of soils, backfill, bedding, retaining walls, embankments, and concrete. Their contribution will be invaluable in meeting the rigorous standards and schedules set forth by HCRMA.

Our combined team is fully accredited by TxDOT and recognized by the American Association of State Highway Transportation Officials (AASHTO) Accreditation Program (AAP), the Construction Materials Engineering Council (CMEC), and the Laboratory Accreditation Bureau (L-A-B). We are committed to maintaining the highest ethical standards and industry best practices, ensuring impartiality and accuracy in all our testing and reporting.

We are eager to discuss our qualifications in more detail and explore how our team can contribute to successfully completing the 365 Tollway Project. Please find enclosed our comprehensive Statement of Qualifications, which provides further details on our experience, certifications, and the specific services we offer.

Thank you for considering ATSER, LP, and HVJ Associates, Inc. for this important project. We look forward to the opportunity to work with HCRMA and contribute to the continued development and improvement of Hidalgo County's transportation infrastructure.

Sincerely,



David Frederick Martinez, Ph.D., P.E.
Chief Executive Officer

CMT Lab and Forensic Services - 2024-05

Firm Information | Contact

ATSER, LP | 1150 Richcrest Drive, Houston, TX 77060

Contact Person: Mark Madera

- **Position:** Resident Engineer
- **Phone:** 281-999-9961
- **Email:** mmadera@atser.com
- **Fax:** 281.999.9962

Principals in the Firm and Firm History

Dr. Frederick David Martinez, Founder, Principal, CEO

Established in 1993, ATSER is a leading engineering management firm headquartered in Houston, Texas, boasting over 30 years of unwavering commitment to optimizing project delivery. Our company is renowned for assembling a team of highly skilled professionals, including scientists, engineers, construction managers, and technicians, each specializing in diverse fields such as geotechnical engineering and construction material testing. At the forefront of innovation, ATSER has revolutionized project control in transportation through our advanced software, Manage-IT™, which excels in managing costs, schedules, quality, and project phases.

Focusing on our core capabilities in geotechnical engineering and construction materials testing, ATSER has established a track record of delivering high-quality testing and inspection services to various public agencies, approval authorities, and the private sector. Our significant achievements include projects for METRO, the Federal Transit Administration (FTA), and other public agencies, fostering strong relationships based on trust and consistent performance. Our laboratory is equipped with the latest technology, and staffed by qualified personnel, holds A2LA and AASHTO accreditations, ensuring our construction material testing services adhere to the highest ASTM standards. ATSER is committed to delivering projects with precision, efficiency, and cost-effectiveness, leveraging our technical expertise and experience to meet and exceed the expectations of our clients. As we look forward to contributing our geotechnical engineering and construction materials testing expertise to Hidalgo County, we are confident that our proven track record and commitment to excellence will add significant value to this and future projects.

Staff Information

Resumes and Project Manager Details:

Project Manager: Mark Madera, P.E.

Experience: Over 35 years in Civil Engineering. He provides construction leadership to program delivery teams on contracting strategy, construction means and methods, and phasing and sequencing of work during full project lifecycles. He ensures that projects meet regulatory guidelines, applicable codes, laws, and FTA requirements. He interfaces with Quality and Safety programs. He works in close collaboration with civil agencies including funding, permitting, and regulating. He has extensive experience with all aspects of Construction Management, Construction Engineering, and Construction Materials compliance. Additionally, Mr. Madera has an accomplished 17-year track record within TxDOT, demonstrating strategic leadership skills and expertise in managing major TxDOT projects. As a TxDOT resident engineer, his project portfolio includes high-profile initiatives such as Houston District's Ship Channel Bridge, Kemah Harbor Bridge, and the Beltway 8 frontage roads at Fairway Parkway.

Mr. Madera's capabilities span technical execution as well as robust claims management. He excels at fostering proactive stakeholder relationships through comprehensive pre- and post-construction meetings. These meetings facilitate risk discussion and alignment on project objectives across stakeholder groups. Madera's role as Resident Engineer at the University of Texas Medical Branch in Galveston highlights his specialized skill in maintaining critical access during construction operations. In alignment with HCRMA's principles, Mr. Madera exhibits integrity and an unwavering service commitment. He provides ethical leadership, cultivating a collaborative team environment that encourages shared knowledge and growth. For this upcoming HCRMA contract, Madera is fully dedicated to upholding the department's values, delivering comprehensive oversight, and ensuring quality across all work authorizations. His proven organizational skills and adherence to documentation best practices support a structured approach - from scope definition to conflict resolution - executed with the highest professional standards.

Staff by Discipline

- Civil Engineers: 10
- Project Managers: 5
- Field Engineers: 8
- Quality Assurance Specialists: 5
- Utility Coordinators: 3
- CADD/GIS Technicians: 2
- Survey Verification Experts: 2

Notable Projects

Fred Hartman Bridge, Baytown Tunnel Removal, City of Houston Street and Bridge Program. Mr. Madera oversaw the construction of the Fred Hartman Bridge, a \$91.2 million project, the largest state-funded award in 1985. He managed the project, including negotiations with outside consultants, and testing laboratories, and monitoring compliance with plans. Madera also coordinated activities, updated Mayors, held public involvement forums, and gave speeches to various organizations. He also designed the Baytown Tunnel Removal Project, the first underwater roadway tunnel removal in history. He expedited the project due to tunnel deterioration, submitting the P.S.&E package and responding to district and Austin Plan Review questions. He reviewed the project schedule, developed plans, and had final authority on consultant contract billings. Due to the project's unique nature, numerous agreements and permits were required. Mr. Madera proposed removing the center 1,050 feet that affected Houston Ship Channel traffic, resulting in estimated cost savings of approximately \$13 million.

The resumes of key staff are included in **Appendix A**.

Related Testing Verification Projects

- **Project 1: ATSER Harris County Toll Road Authority Ship Channel Bridge**
 - **Role:** Bridge Project Management Services
 - **Description:** HCTRA's cable-stayed Ship Channel Bridge in Houston will replace the Jesse H. Jones Bridge to accommodate projected traffic growth, increasing travel lanes from 2 to 4 in each direction. ATSER, as part of the Program Management Team, oversees quality management and collaborates with COWI on technical analysis and value engineering, transitioning the project to a quasi-Design Build system to expedite construction.
- **Project 2: Harris County Toll Road Authority Barrier Free Program Management**
 - **Role:** Geotechnical Management
 - **Description:** The project includes engineering and design services for multiple Houston tollways, focusing on toll plaza replacements and converting to an all-electronic tolling environment. Services include negotiating with Harris County Tollway Authority, managing geotechnical segments, standardizing testing procedures, and implementing process enhancements to improve geotechnical report quality and reduce project costs.
- **Project 3: Glacier Drive, Polebridge Loop, and North Fork of the Flathead River**
 - **Role:** Construction Services
 - **Description:** The project involves the reconstruction of Glacier Drive, traffic control during construction, and improvements to North Fork Road, including the application of a high-quality aggregate surface course and the creation of a drainage ditch. Additionally, recycled aggregate materials will be used for the base and riding surfaces on Glacier Drive and Blankenship Road/Benton Stage Road, enhancing road stability, durability, and environmental sustainability.

- **Project 4: Harris County Toll Road Authority Barrier-Free Program Management**

- Role: Geotechnical Management
- Description: The project includes engineering and design services for several Houston tollways, focusing on toll plaza replacements and conversions to an all-electronic tolling system. It involves managing geotechnical segments, standardizing testing procedures, and enhancing communication between design groups, which results in lower project costs and improved geotechnical report quality.

- **Project 5: USACE Galveston District - Freeport and Vicinity Coastal Storm Risk Management Project**

- **Role:** Construction Services
- **Description:** The project focused on geotechnical engineering and environmental restoration, including sediment analysis, stability evaluation, and the design of marine structures. Key components included sediment sampling, geotechnical evaluation of rubble breakwater foundations, preliminary designs for Bessie Heights Marsh restoration, stability analysis of a rock training dike, and designing intertidal to high marsh habitats, ensuring stable and sustainable outcomes.

ATSER's construction material testing encompasses concrete compressive strength (ASTM C109) for concrete testing. ATSER's concrete services also involve the development of mix designs. In construction material density testing, ATSER's testing includes reports on water content and soil density using the in-place nuclear method (ASTM 6938). This supports ATSER testing for subgrade and embankment layers, as well as asphalt placement testing. For soil investigations in construction material testing, ATSER conducts tests such as soil proctors (D-498, ASTM D-1557), determination of lime stabilization ability by soil pH (Tex-121-E), assessment of material finer than #200 sieve in soil (ASTM D1140 TEX-111-E), and Atterberg Limits (D4318, Tex-104, 105, 106-E). In asphaltic materials testing for construction material, ATSER conducts tests such as Extraction/Gradation Tex-236-F, bulk specific gravity, theoretical maximum specific gravity (Rice Tex-207-F), batch plant testing, and density of in-place bituminous pavement (Tex-207-F). ATSER's asphalt services also include mixed designs. For Core Samples Investigation/Reporting, ATSER conducts coring of both concrete and asphalt testing items such as density and thickness (Tex-222-F). Furthermore, ATSER facilitates supplementary laboratory testing to enable thorough analysis of in-situ asphalt and concrete mixes.

Detailed Approach to Material Testing

ATSER has been a leading Geotechnical and Material Testing firm in the Civil Engineering Industry for thirty-one (31) years. We maintain professional standards while adapting to evolving materials and testing procedures. ATSER ensures that all materials used in our projects meet the requirements of project standards, plans, and specifications, as outlined in the TxDOT Quality Assurance Program for Design-Bid-Build (DBB) Projects, including any approved changes. We verify and monitor all materials to meet Quality Control requirements and ensure plant production and placement adhere to specifications. Safety Assurance is crucial to protect the public and our personnel. Our final quality process ensures all materials comply with plans, standards, and specifications, delivering the best possible project to the owner.



ATSER's primary role is to verify and report on the Independent Engineer's findings, including material tests conducted and accepted, tests not accepted, and resolution of deficiencies with approval by the engineer of record or mediation as agreed by the contractor. We also verify the independent engineer's auditing of the contractor's project management plan, including design and quality management plans, and resolve systemic quality issues. We monitor project documentation, including material test reports, quality control sampling and testing, and dispute resolution.



ATSER will verify independent engineer testing per required TxDOT frequencies and activities, compare splits, resolve discrepancies, and provide an annual report of the IA Program Results. We will verify IA submission of material certification letters, process and close out Material Exceptions, and assist in the Materials and Tests Divisions and HCRMA's oversight.

ATSER will provide referee testing to prevent conflicts of interest on the project and follow the technician qualification program for its and HVJ's personnel, ensuring appropriate HMAC and ACI certifications as stated in 6.5 of the QA-DBB. We will assist the Engineer in ensuring QA/QC/IA personnel conduct internal/external audits, proficiency tests, and equipment calibration/maintenance. ATSER and HVJ will participate in the qualification of laboratories by TxDOT, verify provisional certifications, document/retain records, and mediate any disqualifications.

ATSER ensures all laboratory equipment is calibrated, standardized, checked, and verified per applicable procedures. We handle project reporting, resolve audit deficiencies, and continuously improve observations and corrective action reports. ATSER assists the Engineer in closing out all project testing processes, ensuring the accreditation of all active testing firms, reinspection, and mediations. We verify contractor/independent engineer calibration/verification records for equipment and materials, meet Buy America and Buy Texas requirements, and handle annual audits and actions of all laboratories.

Additionally, ATSER uses our Laboratory Management System (LIMS: MANAGE-IT) to document all testing in real-time, allowing timely results and trend reviews to correct potential deficiencies, saving both time and money. ATSER's experience and meticulous attention to detail have driven successful Design-Build projects from Georgia DOT to Massachusetts DOE, Colorado DOT, and Maricopa County, Arizona. Our

process control identifies contractor and independent engineer laboratory variabilities, providing information to address quality trends proactively. On the Mickey Leland International Terminal project for Flatiron, ATSER’s team helped reduce material defect costs to less than 0.025% of material costs.

ATSER’s PMP goal is to provide top-quality geotechnical engineering and construction materials testing services for projects within the 360 Tollway. Our project management plan outlines a structured approach to ensure that all aspects of the project are managed effectively, from quality assurance and scheduling to regulatory compliance and environmental sustainability.

Project Oversight and Quality Assurance
The ATSER Project Manager (PM) oversees all project deliverables produced by our inspectors, technicians, and engineers, ensuring accuracy, completeness, and clarity, particularly for payment-related calculations. Managers conduct daily reviews of all submissions, with the PM conducting weekly reviews of deliverables. Utilizing Assure-IT™, ATSER provides real-time monitoring accessible to all stakeholders based on permissions.
Scheduling and Staffing
The PM generates and manages Critical Path Method (CPM) schedules using Primavera P6 or an equivalent tool, aligning ATSER staffing with the contractor's baseline schedules. This ensures adherence to traffic and environmental plans and logical project progression. Our Quality Assurance (QA) manager periodically samples and audits deliverables to maintain high standards.
Continuity and Communication
To ensure project continuity, we employ NICET-certified inspectors to guarantee quality services and facilitate the development of our technicians into NICET inspectors. The ATSER PM logs and manages Requests for Information (RFIs), Non-Conformance Reports (NCRs), change orders, and shop drawings, ensuring effective communication with ATSER, contractors, and other relevant personnel.
Change Management and Negotiation
ATSER assists with contractor change orders, offering solutions and engaging in negotiations as needed. As requested by HCRMA PMT, this may include comparing contractor pricing with area low bid pricing and adjusting the CPM schedule based on any impacts, ensuring all resolutions are well-documented.
Safety, Cost, and Effectiveness
The ATSER PM aims to balance safety, cost, function, maintainability, and effectiveness throughout the project. Our experience and lessons learned guide us in the early identification of potential conflicts, mediation methods, and the pursuit of cost and time-saving opportunities, presenting win-win solutions for all stakeholders.

Regulatory Compliance
As requested by the HCRMA's PMT, the ATSER PM assists the contractor in complying with DBE, EEO, Buy America, Davis Bacon Wage rates, OSHA safety, and applicable environmental requirements. This includes fostering productive relationships with the HCRMA, stakeholders, ATSER, and the contractor to ensure the project stays on time, within budget, and meets all regulatory standards.
Quality Control and Assurance
A key component of our project management plan includes a Quality Control/Quality Assurance Plan, which will be submitted for HCRMA's approval after contract execution. This plan details our approach to construction material testing, including field and laboratory tests, inspections, qualifications, and validations as outlined in TxDOT or HCRMA's specifications and mirrored in our Quality Assurance Plan.
Utility Coordination and Environmental Compliance
Our Utility Coordination Plan manages the identification, removal, and installation of utilities, ensuring minimal impact on construction. Additionally, we implement environmental compliance measures, such as Storm Water Pollution Prevention and Hazardous Material Testing, to ensure sustainability throughout the project.

For Specialized/Forensic Testing, ATSER maintains an asphalt binder laboratory and supporting test equipment to provide investigations into placed asphalt issues and long-term pavement performance. In addition, ATSER provides asphalt mix designs for specialized pavements that experience high wear, high temperatures, or other extreme situations, such as our designs for the Texas Grand Prix (2008), the North Tarrant Expressway (2009), and most recently for P-304 mix designs for various taxiways and other roads for the Houston Airport System.

ATSER also provides mix designs for concrete and flexible base material, including necessary proof testing. ATSER utilizes priority methods within its **ASSURE-IT™** system to calculate mix designs and reduce the amount of proof samples. All reports are reviewed, signed, and, if necessary, stamped by Forensics Engineer Robert Arizola PE and as needed, by PM Mark Madera PE (specialized bridge or technical applications).

TEST METHOD	TEST DESCRIPTION
SOILS	
ASTM D421 (Withdrawn 2016)1	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 (Withdrawn 2016)1	Particle-Size Analysis of Soils
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Determining the Amount of Material Finer than 75- μm (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM	D2166 Unconfined Compressive Strength of Cohesive Soil
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D24882	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D2850	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D4221	Dispersive Characteristics of Clay Soils by Double Hydrometer
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4546	One-Dimensional Swell or Collapse of Cohesive Soils
ASTM D4647/D4647M	Identification and Classification of Dispersive Clay Soils by the Pinhole Test
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4767	Consolidated Undrained Triaxial Compression Test for Cohesive Soils
ASTM D6572	Determining Dispersive Characteristics of Clay Soils by the Crumb Method
ASTM D6913/6913M	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
Soil-Cement:	
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D1633 (Withdrawn 2016)1	Compressive Strength of Molded Soil-Cement Cylinders

Aggregates:	
ASTM C117	Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131/C131M	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142/C142M	Clay Lumps and Friable Particles in Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Reducing Samples of Aggregate to Testing Size
ASTM D75/D75M1	Sampling Aggregates
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
Tex-401-A	Sieve Analysis of Fine and Coarse Aggregate
Tex-403-A	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-404-A	Determining Unit Mass (Weight) of Aggregates
Bituminous:	
ASTM D75/D75M1	Sampling Aggregates
ASTM D979/D979M1	Sampling Bituminous Paving Mixtures
ASTM D1560	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus
ASTM D2041/D2041M	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2726/D2726M	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2950/D2950M1	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3203/D3203M	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549/D3549M (Method A only) 1	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D6307	Asphalt Content of Hot-Mix Asphalt by Ignition Method
Tex-200-F	Sieve Analysis of Fine and Coarse Aggregates
Tex-201-F	Bulk Specific Gravity and Water Absorption of Aggregate
Tex-205-F	Laboratory Method of Mixing Bituminous Mixtures
Tex-206-F	Compacting Specimens Using the Texas Gyrotray Compactor (TGC)

Tex-207-F (Except Part VI and VIII)	Determining Density of Compacted Bituminous Mixtures
Tex-208-F	Test for Stabilometer Value of Bituminous Mixtures
Tex-217-F	Determining Deleterious Material and Decantation Test for Coarse Aggregates
Tex-222-F1	Sampling Bituminous Mixtures
Tex-227-F	Theoretical Maximum Specific Gravity of Bituminous Mixtures
Tex-236-F	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
Concrete:	
ASTM C31/C31M1	Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42/C42M	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C78/C78M	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M1	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M1	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M1	Sampling Freshly Mixed Concrete
ASTM C173/C173M1	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174/C174M	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
ASTM C192/C192M	Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M1	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C293/C293M	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C617/C617M	Capping Cylindrical Concrete Specimens
ASTM C1064/C1064M1	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders

ATSER's CMT Laboratory is located at 1150 Richcrest Drive, Houston, TX 77060



Soil Proctor Compactor



Asphalt Ignition Oven



*Automatic Consolidation
& Permeability*



Curing Room



Sieve Shakers



*Soil Mechanics Triaxle Pressure
Board*

Laboratory Test Method Unit

Soils & Base Testing		
Sampling Tex-400-A hour	Moisture-Density Relationship Tex-114-E each	Slurry Testing Tex-130-E each
Sample Preparation Tex-101-E each	Moisture-Density Relationship Tex-114-E each	Texas Cone Penetration Tex-132-E each
Determining Slaking Time Tex-102-E each	Wet Ball Mill Test Tex-116-E each	Freezing and Thawing Tests for Compacted Soil-Cement Mixture Tex-135-E each
Moisture Content Tex-103-E each	Texas Triaxial Compression Tex-117-E, Part I each	The thickness of Pavement Layers (4 hour minimum) Tex-140-E Hour
Atterburg Limits Tex-104,105&106-E Set of 3	Texas Triaxial Compression Tex-117-E, Part II each	Manual Procedure for Description and Identification of Soils Tex-141-E each
Linear Bar Shrinkage (per bar) Tex-107-E each	Quality Assurance (QA) Series for Flexible Base	Laboratory Classification for Soils for Engineering Purposes Tex-142-E each
Determining the Specific Gravity of Soils Tex-108-E each	Soil- Cement Testing Tex-120-E, Part II each	Sulfate Content in Soils Tex-145-E each
Sieve Analysis Tex-110-E, Part I each	Soil- Lime Testing Tex-121-E, Part II each	Conductivity Test for Field Detection of Sulfates in Soil Tex-146-E each
Sieve Analysis (Hydrometer with Tex-108-E) Tex-110-E, Part II each	Determining the Drainage Factor of Soil Materials (Not Field Test) Tex-123-E ++ each	Determining Chloride and Sulfate Contents in Soils Tex-620-J each
Hydrometer with Tex-108-E (in conjunction with Tex-110-E, Part II) Tex-108-E each	Determining Modulus of Sub-grade Reaction (K Value) (Not Field Test) Tex-125-E ++ each	Free Swell Test EM1110-2-1906 each
Percent Passing No. 200 Sieve Tex-111-E each	Molding, Testing, and Evaluation Bituminous Black Base Materials Tex-126-E ++ each	Pressure Swell Test EM1110-2-1906 each
Determining the Amount of Material in Solis Finer than the 75 mi Tex-111-E each	Lime-Fly Ash Compression Tex-127-E each	One-Dimensional Swell ASTM D4546 each
Admixing Lime to Reduce Plasticity Index of Soils Tex-112-E each	Soil pH Tex-128-E each	One-Dimensional Swell (Method B Only) ASTM D4546 each
Moisture-Density Relationship Tex-113-E each	Resistivity of Soils Tex-129-E each	Potential Vertical Rise Calculation Tex-124-E each

ATSER, LP is part of the AASHTO Accreditation Program (AAP) and employs professionals with the following certifications:

- ACI Concrete Field Testing Technician – Grade 1;
- ACI Concrete Strength Testing Technician;
- TXAPA HMA Level 1A – Plant Production Specialist;
- TXAPA HMA Level 1B – Roadway Specialist;
- TXAPA SB 101 – Property Specialist;
- TXAPA SB 102 – Field Specialist;

ATSER can provide all certifications upon request.

ATSER is in the process of re-certifying for the USACE Laboratory Evaluation Program. ATSER has been a verified laboratory and is currently retraining Jose Barcenas and Emmanuel Zuniga as ACI Aggregate Base Testing Technicians (concrete.org). ATSER will then revalidate our laboratory through the Material Testing Center. We have enclosed our expired certification, which demonstrates our skills in testing aggregate, bituminous materials, and soils.

For other related testing and analysis services as needed, ATSER provides specialized sourcing and inspection of steel and coatings through its network of testing agencies. ATSER refrains from testing outside its third-party verified certifications. ATSER sources testing include welds, coatings, and steel strength. For proposal simplicity, subcontractors other than HVJ have not been included in this proposal, including those that may assist in geotechnical drilling, hazardous material testing, environmental assessments, and pre-and post-tension testing inspections. At HCRMA 's request, ATSER will provide an appropriate addendum focusing on these services.

Current Workload

- **Current Projects:**

ATSER manages multiple projects concurrently but ensures our schedule is meticulously aligned to be fully staffed and available for any new opportunities. Our ongoing supervision and management of infrastructure projects are designed to prevent resource allocation conflicts with the 365 Tollway Project requirements. This strategic approach allows us to deliver high-quality performance across all projects, ensuring each receives the necessary attention and resources.

Sub-Consultants:

HVJ ASSOCIATES, INC.

- Construction Material Testing Project Manager: Hirendra Patel, PE
- Forensic Engineer: Michael Hasen, PE

HVJ Associates, Inc. (HVJ) is an engineering firm with more than 36 years of experience, specializing in geotechnical services, construction materials engineering and testing, pavement design, and environmental services. The markets they serve range from aviation to highways—from education to land development. HVJ is a certified Small Business (SBE) as well as a DBE/MBE/HUB and is registered by the Texas Board of Professional Engineers (Registration No. F-000646). HVJ provides the following professional engineering services:

Geotechnical Engineering including site exploration and drilling, soil laboratory testing, high-rise building foundations, earth retaining structures, slope failures, tunnels, dams, bridges, overpasses, ports, airports, dredging, utilities, retention and detention ponds, pump and lift stations, intake structures, water and wastewater treatment plants, parks and pavement design recommendations.

Environmental Engineering includes the production of environmental site assessments associated with property transfers, corridor studies, petroleum storage tank management, waste management, and geologic fault hazard assessments.

Pavement Engineering includes pavement evaluation, pavement rehabilitation, pavement reconstruction, and new pavement design. HVJ has one of the largest private pavement engineering departments in Texas and has completed surveys for more than 30 complete pavement networks.

Construction Materials Engineering includes construction materials testing, construction management, and inspection services, construction management assistance, quality assurance and quality control functions, and failure studies.

HVJ's Houston laboratory is accredited by the American Association for Laboratory Accreditation in the fields of geotechnical and construction materials testing.

ATSER LP Project Manager Mark Madera, PE, will be the sole contact for HCRMA and will act as the referee engineer. Additionally, we will verify the Independent Engineer deliverables and conduct any project audits as assigned by the HCRMA engineer. Furthermore, ATSER LP will provide both non-destructive and destructive field testing for referee testing and any tests specified in the TxDOT Inspection Guide, Exhibit C, following the Quality Assurance for Design-Bid-Build Projects.

ATSER and HVJ will act as referee engineers, conducting validations of project materials and workmanship according to the approved plans and specifications, including any approved changes per the TxDOT Quality Assurance Program for Design-Bid-Build Projects.

HVJ has two sister companies, HVJ Associates and HVJSCTC, both MWBE and HUB firms similar to ATSER LP. Reporting directly to PM Mark Madera, PE, Hirendra Patel, PE, of HVJ Associates will provide at least 10% of the contract scope. As HVJ's referee engineer, Patel will oversee HVJSCTC technicians. HVJSCTC technicians and staff will support the project locally, providing referee testing and other services as assigned by PM Mark Madera, PE, and managed by Hirendra Patel.

ATSER and HVJSCTC technicians will be the boots on the ground at the project site.

DBE and Affirmative Action Status

ATSER and HVJ are committed to maintaining an active Affirmative Action Program and are certified as a Disadvantaged Business Enterprise (DBE/MBE).

Pending Litigation

Currently, there are no pending litigations against ATSER, LP, or its agents/employees related to any work performed. Our firm prides itself on maintaining a transparent and compliant approach to all projects, ensuring that legal and contractual obligations are consistently met. This commitment to integrity and professionalism has enabled ATSER to build a solid reputation and trust with our clients and partners.

Professional Liability Insurance

Insurance Coverage:

Amount: \$5 million in professional liability insurance coverage.

(Attached)

Bank Contact Information

Stellar Bank

Contact Person:

Peter Ellen

Phone: 281.894.3293

Certification Regarding Boycott of Israel

Information on Israel Boycott:

ATSER certifies that it does not boycott Israel and will not boycott Israel during the term of the contract. HVJ Associates Inc. certifies that it does not boycott Israel and will not boycott Israel during the term of the contract.

(Attached Form)

Additional Information

ATSER's commitment to delivering high-quality services and meeting project deadlines efficiently.

Proven methodologies for project management and quality control.

Architect-Engineer Qualifications (Standard Form 330)

Form SF 330:

The executed SF 330 form is attached as **Appendix B**.

Proven Ability and Ethical Standards

ATSER has a longstanding reputation for delivering high-quality construction material testing (CMT) services efficiently and cost-effectively, as evidenced by our involvement in major infrastructure projects. Notable among these is our role in the HCTRA cable-stayed Ship Channel Bridge project, where we were part of the Program Management Team (PMT). This project involved the construction of new southbound bridge approach bridges, a full concrete segmental cable-stayed main bridge in both travel directions, and the removal of the existing bridge's segmental main span unit.

Project Efficiency and Cost Management:

- **Timely Delivery:** ATSER successfully managed the transition from a Design-Bid-Build project to a quasi-Design-Build system, expediting work through work package releases. This innovative approach allowed for accelerated project timelines without compromising on quality.
- **Cost Control:** Through value engineering and a collaborative approach with COWI North America, we revised the main span design, integrating a concrete and steel girder composite deck system. This not only addressed the design issues but also optimized project costs and ensured structural integrity.
- **Quality Assurance:** ATSER developed a comprehensive Quality Assurance Management Plan for the structural steel girder steel coating system, covering both shop fabrication and field inspection. This plan ensured adherence to the highest standards of quality throughout the project's lifecycle.

Technological Integration:

- **Manage-IT and Assure-IT Systems:** Our proprietary Project Management Information System (Manage-IT) and Laboratory Information Management System (Assure-IT) facilitated seamless documentation, tracking, and quality control, ensuring that all project activities met specified standards and were completed on schedule.

Prime Firm's Ability to Maintain Ethical Standards and Industry Best Practices

Ethical Standards and Conflict of Interest Management:

ATSER is deeply committed to maintaining ethical standards and adhering to industry best practices. We recognize the importance of transparency and impartiality in all our operations, particularly in assigning tasks to Prime or Subconsultant staff. Our approach ensures that no conflicts of interest compromise the integrity of our work.

Conflict of Interest Mitigation:

- **Independent Reviews and Audits:** During the Ship Channel Bridge project, ATSER collaborated with COWI to conduct a thorough review of the original bridge design. This independent assessment was crucial in identifying significant design issues and ensuring public safety.
- **Transparent Communication:** We maintain open lines of communication with all stakeholders, including clients, contractors, and subconsultants, to ensure all decisions are made in the best interest of the project and public safety.

Industry Best Practices:

- **Standardization and Baseline Establishment:** In the Harris County Toll Road Authority Barrier Free Program Management project, ATSER played a key role in establishing program-wide geotechnical guidance and normalizing budgets for roadway segments. This standardization process reduced project costs and improved the quality of geotechnical engineering reports.
- **Audit Systems:** We implemented an audit system for geotechnical sub consultants budgets, ensuring financial accountability and the integrity of the project.

Conflicts of Interest Questionnaire (CIQ)

Completed Conflicts of Interest Questionnaire (Exhibit A) is attached as **Appendix C**.

Certification Regarding Iran, Sudan, and Designated Foreign Terrorist Organizations

- **Certification:**

ATSER certifies that it is not identified on the Texas Comptroller of Public Accounts list of companies that do business with Iran, Sudan, or designated foreign terrorist organizations.

Appendices

- **Appendix A:** Resumes of Key Personnel
- **Appendix B:** Executed SF 330 Form
- **Appendix C:** Completed CIQ Form
- **Appendix D:** Certifications and Attachments

APPENDIX A:

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Mark Madera	Project Manager	35+	

15. FIRM NAME AND LOCATION (City and State)
ATSER, LP - 1150 Richcrest Drive, Houston, Texas 77060

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Bachelor of Science in Civil Engineering, Texas A&M University	Registered Professional Engineer – Texas No. 61822 Transportation

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
 TxDOT Precertification's: 11.4.1, 11.5.1, 11.6.1 and 11.7.1, TxDOT Precertification's: 4.5.1 for Constructibility Review, TxDOT 11.10.1 for Construction Record Keeping, TxDOT 11.1.1 Roadway Construction Management and Inspection, TxDOT 11.2.1 Bridge Management and Inspection.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
HAS November Alpha Taxiway Reconstruction, HAS Austin Gilbane Mickey Leyland - Houston, Texas		
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Mr. Madera provided technical oversight and quality control for Flatiron Constructors on three Houston Airport System projects. His specific duties included providing weekly quality control reports, reviewing inspectors' and testing technicians' reports, overseeing the crushing operation for		
HCTRA Ship Channel Bridge, Harris County, Texas		
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
As the Principal in Charge (PIC), Mr. Madera provides technical oversight for the \$1.4 Billion HCTRA Ship Channel Bridge project		
HCTRA Barrier Free - Harris County, Texas		
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Currently serving as the Principal in Charge (PIC) for HCTRA and for ATSER, overseeing project controls aspects in the HCTRA Barrier Free project valued at \$3.4 Billion. With a history of precision and specialization in providing technical oversight to the program, he possesses extensive knowledge of the ATSER Manage-IT PMIS and assists as a		
METRO Light Rail - Houston, Texas		
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Mr. Madera, as Resident Engineer, managed the \$18 million Houston METRO Main Street Rail Line Segment 5 construction. His responsibilities included overseeing contractor Texas Sterling, writing project specifications, coordinating activities, and resolving issues. He facilitated communication, reviewed RFIs, ensured tasks were completed, and conducted daily site visits, addressing potential RFIs and reviewing material testing reports.		
Fred Hartman Bridge - Houston, Texas		
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
Mr. Madera oversaw the construction of the \$91.2 million Fred Hartman Bridge over the Houston Ship Channel in 1985, the largest state-funded project at the time. With a 2,474-foot main span and a 2.1-mile total project length, his responsibilities included coordinating with a Design Consultant, managing payments to the Contractor, and ensuring compliance.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Mark Knight	13. ROLE IN THIS CONTRACT Quality Assurance	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 15
15. FIRM NAME AND LOCATION (City and State) ATSER, LP 1150 Richcrest Dr, Houston, Texas 77060			
16. EDUCATION (Degree and Specialization) B.S. in Civil Engineering, University of Texas		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Reg. State of Texas: NICET IV Soils, NICET IV Concrete, NICET IV Asphalt, ACI, TXDOT 1A Asphalt	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Construction Materials Testing of pavements and utilities, project management, reporting operations, laboratory/ field testing, and marketing.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
CMT Assistant/ Field Technician/ Trainer, HVJ & Associates, Houston, Texas	2022	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Mr. Knight managed the CMT department as well as 27 individual projects. He was solely responsible for moving Paradigm from pen and paper reporting to beginning to use Elmtree's field module electronic reporting with technicians using table PC's to instantly report test results from the field.		
CMT Department Manager, Paradigm Consultants, Houston, Texas	2022	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Mr. Knight managed the CMT department as well as 27 individual projects. He was solely responsible for moving Paradigm from pen and paper reporting to beginning to use Elmtree's field module electronic reporting with technicians using table PC's to instantly report test results from the field.		
Office Manager/ Lab Manager/ Project Manager, QC Laboratories, League City, Texas	2021	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Mr. Knight managed daily operations of League City CMT office personnel, laboratory/ field testing, marketing and reporting operations. He managed and maintained laboratory for A2LA audits. He held the position of Radiation Safety Officer for Houston and League City Offices as well as On-Site manager for 6 Port of Houston Authority Bayport Terminal Projects.		
Senior Technician, Stork Southwestern Labs, Houston, Texas	2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Mr. Knight performed materials testing on construction projects ranging from single family dwellings to federal, state, and city projects.		
Engineering Technician Associated Testing Laboratories, Houston, Texas	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Mr. Knight performed materials testing on construction projects ranging from single family dwellings to federal, state, and city projects.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Mario Barbosa	13. ROLE IN THIS CONTRACT Graduate Laboratory Engineer	14. YEARS EXPERIENCE	
		a. TOTAL >10	b. WITH CURRENT FIRM 3.5
15. FIRM NAME AND LOCATION (City and State) ATSER 1150 Richcrest Drive, Houston, Texas 77060			
16. EDUCATION (Degree and Specialization) Masters in Civil Engineering, Lamar University- Geotechnical focus		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) NICET II in soil, concrete, and asphalt.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Ralston Acres Subdivision Drainage Improvements, Houston, Texas	2022	N/A
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the project manager, Mr. Barbosa focused on supervising field activities, logging soil samples, preparing and assigning the test program, processing and reviewing lab data, preparing geotechnical recommendations for construction and site preparation, performing slope stability analysis, and performing pavement analysis and design for the streets around the vicinity.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Sandpiper Village Subdivision Drainage Mitigation- Spring, Texas	2021	N/A
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the project manager for the geotechnical investigation of the new drainage system installation, Mr. Barbosa coordinated and supervised field activities, prepared testing programs, process and reviewed lab data, provided bearing capacities of boring logs, and performed slope stability analysis for the construction of detention basin.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Waterline Replacement at NearTown- Houston, Texas	2019	N/A
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the project manager, Mr. Barbosa coordinated field activities without disrupting local business activities, prepared and assigned testing program, processed and reviewed lab data, prepared soil boring logs and geotechnical recommendations for construction and site preparation.	<input checked="" type="checkbox"/> Check if project performed with current firm	
Harris County Flood Control- Houston, Texas	2018	N/A
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Construction Materials Engineer, Mr. Barbosa focused on quality control by performing density tests on existing soils, selecting materials and cement stabilized sand (CSS) to ensure that it was placed properly and per project specifications.	<input type="checkbox"/> Check if project performed with current firm	
City of Houston- Houston, Texas	2017	N/A
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As the Construction Materials Engineer, Mr. Barbosa focused on quality control for these projects which included overseeing density tests on existing soils, select materials and cement stabilized sand (CSS) to ensure that it was placed properly and per project specifications.	<input type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andrew Martinez	13. ROLE IN THIS CONTRACT Graduate Field Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION (City and State) ATSER, L.P. 1150 Richcrest Drive, Houston, Texas 77060			
16. EDUCATION (Degree and Specialization) Bachelor of Science, Mechanical Engineering, Oklahoma State University		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) TxDOT Sb101 Properties Specialist, TxDOT SB102 Field Specialist, TxDOT Level 1A Plant Mix Specialist, TxDOT Level 1B Roadway Specialist, ACI Concrete Field Testing Grade I			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a. Metro UAP, Houston, Texas	2022	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Martinez provided inspection services for Houston Metro (Bus routes and stops), coordinated with 3rd party contractors who are involved in construction developments of Metro bus stops and providing required information to client.		
b. Road Pavement Replacement Project, Miles St., Market St. to Industrial Rd., Houston, Texas	2022	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Martinez assisted in maintaining a high level of quality assurance for all site materials including: fill materials, existing sub-grade, cement stabilized sand, backfill materials and concrete pavement replacement. He received and reviewed all on-site reports before submitting to ATSER's Sr. Geotechnical Engineer for Final approval.		
c. Restoration of the Harris County Jury Assembly Building, Houston, Texas	2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the CME Assistant Project Manager in charge of inspection, Mr. Martinez assisted in maintaining a high level of quality assurance for all site materials including: fill materials, existing sub-grade, cement stabilized sand, backfill materials and concrete pavement replacement. He received and reviewed all on-site reports before submitting to ATSER's Sr. Geotechnical Engineer for Final approval.		
d. Testing and Inspection Services to Ascertain Specification Compliance Road Construction of Madera Run Parkway, Humble, Texas	2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the CME Assistant Project Manager in charge of inspection, Mr. Martinez assisted in maintaining a high level of quality assurance for all site materials including: fill materials, existing sub-grade, cement stabilized sand, backfill materials and concrete pavement replacement. He received and reviewed all on-site reports before submitting to ATSER's Sr. Geotechnical Engineer for Final approval.		
e. Construction Materials Testing (CMT) Technician, ATSER, Houston, Texas	2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As the CME Assistant Project Manager in charge of inspection, Mr. Martinez assisted in maintaining a high level of quality assurance for all site materials including: fill materials, existing sub-grade, cement stabilized sand, backfill materials and concrete pavement replacement. He received and reviewed all on-site reports before submitting to ATSER's Sr. Geotechnical Engineer for Final approval.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Robert Arizola	13. ROLE IN THIS CONTRACT Forensics Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 25
15. FIRM NAME AND LOCATION (City and State) ATSER, LP 1150 Richcrest Dr, Houston, Texas 77080			
16. EDUCATION (Degree and Specialization) B.S. in Civil Engineering, Texas A&M University 1982		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Professional Engineer, Texas No. 63994	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Design, Construction Management, Construction Materials Testing of pavements and utilities.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Houston Airport System (HAS) PN 675 Bush Intercontinental Airport Houston (IAH) Houston, Texas	2022	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
a. As a Quality Manager, Mr. Arizola oversaw the Quality Control activities for this \$56M taxiway pavement replacement project. He reviewed daily activities and verified testing and inspecting services to ascertain specification compliance including the two detention basins and the interceptor structures.		
HCPID's Perri Road "A" Paving and Drainage from F.M. 1960 to North of Mills Road, Houston, Texas	2022	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
b. As the project manager, Mr. Arizola oversaw Quality Assurance for Concrete, Soils and Asphalt Testing. He reviewed daily activities and verified testing and inspecting services to ascertain specification compliance including the two detention basins and the interceptor structures.		
Construction Management for the Street and Bridge Department, Houston, Texas	2021	n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
c. Mr. Arizola was the Deputy Program Manager, Project Manager, and Resident Engineer on over 135 Street and Bridge projects and associated utilities and drainage for the City of Houston that totaled over \$176 million in construction costs. 98% were on time and/or under budget while also utilizing ATSER's Manage-IT software to organize team plan.		
Better Streets 2 Neighborhoods Program, Harris County, Texas	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
d. Mr. Arizola was the project manager overseeing paving projects for the Harris County Precinct 2 in a program that aimed to repave 500 lane miles within 12 months after the election of a new commissioner. Mr. Arizola developed new overlay standards and pavement repair standards for the program. He then managed the selection and oversight of engineering firms and construction firms to design complete the Work utilizing Mange-IT.		
Greater Houston Wastewater Program, Houston, Texas	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
e. Mr. Arizola held the role of Project Engineer for the design of an underground waste sewer line in downtown Houston. He performed planning of project functions with consultant firms and city officials. He also coordinated with consultants to identify and avoid potential constructability conflicts such as underground utilities, traffic signaling, etc. Lastly, he developed recommendations for construction safety and compliance.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Emmanuel Alvizo-Zuniga	13. ROLE IN THIS CONTRACT Technician	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM
15. FIRM NAME AND LOCATION (City and State) ATSER, LP 1150 Richcrest Drive, Houston, Texas 77060			
16. EDUCATION (Degree and Specialization) Bachelor of Science, Mechatronics Engineering and Mathematics		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) TxAPA SB 101 (#1594) TxAPA SB 102 (#5732) HMA 1B (#10838) HMA 1A (#4484) ACI Field Grade I (#02146218)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Alvizo is a highly skilled field technician at ATSER with over 8 years of experience in providing construction, engineering, testing, and inspection services.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State) METRO Universal Accessibility Program, Field Inspector, Houston, Tx	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Alvizo, as a field inspector for Houston Metro, ensured compliance with METRO's and FTA standards during design and construction inspections. He coordinated with third-party contractors for Metro bus stop construction, examined drawings, tracked work authorization pay items, and submitted detailed daily reports to the METRO project manager.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Mickey Leland International Terminal (MLIT), Houston, Tx	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Alvizo, the quality control inspector, conducts on-site inspections for soil, concrete, and asphalt quality control near Terminal D. The project also includes construction management services like administration, inspection, environmental efforts, material testing, asbestos abatement, RFIs, commissioning, subcontract administration, and management.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Airfield Pavement Repairs, Houston, Tx	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involves constructing a new Terminal D-West Pier with 6 wide-body gates, a sterile corridor, and refreshing 12 existing gates in the North Concourse.		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Miscellaneous Pavement Repairs at Ellington Airport, Houston, Tx	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involves miscellaneous pavement repairs at Ellington Airport and airfield pavement repairs at the other two airports, covering soil, concrete, and asphalt quality control and workmanship services. ATSER provides daily test reports, focusing on civil works construction materials testing, concrete, and hot mix field testing, including laboratory quality control testing. The project is currently ongoing.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Houston Airport System (HAS) Airfield Pavement Repairs, Houston, Texas	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ATSER is contracted by Flatiron Constructors, Inc. for safety and quality control testing on the Miscellaneous Airfield Pavement Repairs Project at George Bush Intercontinental Airport, Ellington Airport, and William P. Hobby Airport in Houston, Texas. Mr. Alvizo, the quality control inspector, oversees inspection and testing		<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jose Barenas	13. ROLE IN THIS CONTRACT Technician	14. YEARS EXPERIENCE	
		a. TOTAL 7	b. WITH CURRENT FIRM

15. FIRM NAME AND LOCATION (City and State)
ATSER, LP 1150 Richcrest Drive, Houston, Texas 77060

16. EDUCATION (Degree and Specialization) Conroe High School, Conroe, TX - Diploma ITT Technical Institute, Houston, TX	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
 Jose Barenas is a skilled Field Technician with over two years of experience in construction materials testing and inspection, specializing in concrete, asphalt, and soil testing for major infrastructure projects.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a. Reconstruction of Gessner Road, Harris County, Texas (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted concrete and asphalt field testing, in-place density testing of utility backfill, field gradations, and stabilized pavement subgrade for a \$10.3 million project involving a 4-lane concrete boulevard construction	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. Expansion of George Bush Intercontinental Airport, Houston, Texas (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed testing on P-152 embankment/subgrade, P-157 cement stabilized soil, P-304 cement treated base, P-403 asphalt bond breaker, and P-501 concrete pavement. Communicated testing and inspection results to project teams for a \$25 million construction project of new wide-body gates and infrastructure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. Partial Reconstruction of FM 1097 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Carried out in-place density testing on reclaimed cement-treated base, embankment, cement-treated utility backfills, and asphalt surface pavement. Conducted daily sampling and testing to verify compliance with TxDOT specifications for a \$7.4 million roadway reconstruction project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. Miscellaneous Airfield Pavement Repairs (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided quality control testing for P-209, P-219, P-157, P-304, P-401, P-403, P-501, and P-610 materials. Designed, tested, and documented mix designs and trial batches for airfield pavement repairs.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. City of Houston Public Works, Sidewalk Program (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed soil sample testing, in-place density testing of cement stabilized sand, and concrete field testing and inspection for sidewalk and driveway reconstruction, new concrete curb, storm drainage, and utility work.	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Frederick S. Sunderman	13. ROLE IN THIS CONTRACT P.E. ASQ, Quality Auditor	14. YEARS EXPERIENCE	
		a. TOTAL 30	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) ATSER, L.P.			
16. EDUCATION (Degree and Specialization) University of Houston, Civil Engineering, 2012 (continuing education: concrete, steel, design) Prarie View A&M University, MS, General (Civil/ Environmental) Engineering, 2003 Texas A&M University, BS, Industrial Engineering, 1992		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Texas Board of Professional Engineers and Land Surveyors: Professional Engineering Civil 2009 No. 103782, Active	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Quality: Certified Quality Auditor No. 71579. Active			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
S&B Infrastructure- Galveston, Texas	2021-2022	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. As the Project Manager, Mr. Sunderman and the team of ATSER personnel provided engineering services including master planning, transportation design, NEPA environmental documents, drainage system design, environmental site assessments, facility audits, and leaking underground storage tank services. Additionally, ATSER personnel assisted with waste management, site development, water and wastewater system designs, and facilities infrastructure.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
HW Loche- Harris County, Texas	2016-2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. As the On-site Lead Auditor and Project Engineer, Mr. Sunderman reviewed and commented on Developer (Blue Ridge Transportation Group) Project Management Plan (PMP) and designed submittal per Three Party Comprehensive Development Agreement and associated Technical Provisions. Additionally, he provided on-site verification as well as review while commenting on structural assessments and widening plans.		
<input type="checkbox"/> Check if project performed with current firm		
KBR Infrastructure. Stantec- El Paso, Texas and Houston, Texas	2015-2016	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. As the Technical Professional Structural Engineer, Mr. Sunderman assisted on a large design build project including Loop 375 in El Paso, Texas and IH-2 bridge expansion in South Texas. Additional, he prepared bridge and culvert design packages while leading inspection and load rating team to determine conditions of existing TxDOT bridges and culverts.		
<input type="checkbox"/> Check if project performed with current firm		
Texas Department of Transportation (TxDOT)- Houston, Texas	2007-2015	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. As an Engineer, Mr. Sunderman prepared and affixed engineering seal to 33 bridge detail sets which included drawings, quantity estimates and specifications. Additionally, he assisted in further design sub-packages as assigned while also inspecting steel, concrete bridge, and other roadway structures.		
<input type="checkbox"/> Check if project performed with current firm		
Spring Creek Utility District	2014-Current	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE e. As the Director, Mr. Sunderman directed a Utility District of 3500 connections and 780 million in assessed valuation. Additionally, he issued tax exempt bonds, 18 million in capital bonds and two refinances of 4 million each. Lastly, he rebuilt the 1.5 MG treatment plan to improve organization and productivity.		
<input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Hirendra Patel, PE		13. ROLE IN THIS CONTRACT Construction Material Testing Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 35	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION (City and State) HVJ Associates, Inc., Houston, Texas					
16. EDUCATION (Degree and Specialization) BS, Civil Engineering, University of Houston / BS, Engineering Technology, University of Houston			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional (Civil) Engineer, Texas – No. 103696		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) U.S. Army Corps of Engineers Construction Management Training; Specialized Inspection Training for City of Houston; City of Houston Inspector Training; Hazardous Waste Operation and Emergency Response (HAZWOPER); Member of American Society of Civil Engineers.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) METRO Concrete Repair work at Wheeler & Main.		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 10/27/2018	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Project Manager on project that involved repair of concrete pavement with associated Base/subgrade repair. For this minimal scope of services, HVJ provided subgrade and Base testing and concrete inspection and testing on site with associated Lab testing.					
b.	(1) TITLE AND LOCATION (City and State) METRO - Repair of the Rail at I 610, Houston, Texas.		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 10/29/2018	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Project Manager for project that involved repair of Metro rail tracks and HVJ provided welding inspection service thru sub provider. Scope of HVJ was to provide structural and welding inspections only.					
c.	(1) TITLE AND LOCATION (City and State) METRO IH-45 N HOV/HOT Lane Shepherd Exit Ramp, Houston, Texas		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 7/29/2017	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
Project Manager, project involved construction of Shepherd Exit ramp at IH-45 North. Construction involved removal of existing exit structure including pavement, traffic rails and retaining wall. New ramp was constructed south of the current exit and involved 12" fast track CRCP. Storm sewer system was constructed including detention pond at location of existing ramp. Detention pond included drainage swale with 18" RCP pipe and construction of storm sewers including inlets, riprap. HVJ provided soil testing for backfilled materials over utilities and during detention pond construction. Tested compacted Base material on site. Also, HVJ provided Concrete inspection and testing for fast-track concrete (RCP) and inspected rebar prior to concrete placement. HVJ provided all associated lab testing for soil and concrete.					
d.	(1) TITLE AND LOCATION (City and State) METRO-Metro Northwest Transit Center, Houston, Texas		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 11/8/2008	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm		
Project Manager for project that included construction of Transit center and involved earthwork, construction of bus and vehicle traffic roadways, curb, walks, ramps, shelters, parking area columns, foundations, pads and buildings, construction of storm sewer systems and appurtenant structures. Project also included construction of steel framed main passenger canopies and pavement including texture concrete paving as indicated on plan. HVJ provided soil inspection and testing on compacted sub grade, backfilled select materials around concrete structures and monitored and tested backfilled soil over utilities. Performed drill shaft inspection, rebar inspections and concrete testing. HVJ provided special inspection for structural steel and conducted welding inspection, masonry inspection. All associated lab testing performed with soil and concrete inspections.					
e.	(1) TITLE AND LOCATION (City and State) METRO - N. Post Oak BRT Connection, Houston, Texas		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 12/1/2020	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if project performed with current firm		
Project Principal, project included Water Line construction, excavation, lay down & backfill, Construction of the Roadway Subgrade, Reinforced Concrete Pavement and Concrete Patching within the designated areas in Memorial Bend and Briar Forest area. HVJ provided CMT and inspection services for backfilled material over utilities line, subgrade, concrete repair and concrete pavement. For soil testing HVJ performed lab testing to qualify soil material for select backfill and for utility backfilling. Stabilized subgrade testing & inspection also provided with visual inspections of proof roll of existing grade onsite. HVJ also provided associated lab testing for concrete to evaluate strength of concrete and performed associated soil testing in lab to establish proctor value required to evaluate compaction of soil in field.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Michael Hasen, P.E.	13. ROLE IN THIS CONTRACT Forensic Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 41	b. WITH CURRENT FIRM 25+

15. FIRM NAME AND LOCATION *(City and State)*
HVJ Associates, Inc.

16. EDUCATION <i>(Degree and Specialization)</i> Professional (Civil) Engineer, Texas – No. 57498 Professional (Civil) Engineer, Louisiana – No. 31862	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Hasen's career encompasses more than 35 years of diverse geotechnical, construction materials, and environmental engineering experience. He has proposed, planned, and executed hundreds of studies of a broad range of facilities, from residential structures to multi-billion dollar wastewater projects.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> USACE Galveston District - New Construction of Flood Control Levee in Orange County, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> Principal Geotechnical Engineer. The initial phase of the geotechnical subsurface site investigation for Orange County Flood Protection alignment included fifty-four (54) soil borings at selected locations for a total of 3,800 feet. HVJ performed field coordination, sample pickup, and lab testing and lab data reporting - all according to USACE procedures.	<input type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION <i>(City and State)</i> Gorini Marsh, Atkinson Island, Port of Houston Authority, Houston, TX	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> Project Manager for geotechnical investigations for dike design, disposal material settlement, and dredge source material characterization. The Port of Houston Authority (PHA) and the U.S. Army Corps of Engineers (USACE) constructed a 220-acre demonstration marsh, using criteria developed by an interagency working group, to identify key environmental and design parameters and management requirements needed for the establishment, growth, and survival of created marsh	<input type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION <i>(City and State)</i> USACE IDIQ Contract, Galveston District, Galveston, Tx	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> Mr. Hasen provided management of geotechnical aspects of work under an IDIQ contract with a predecessor company of AECOM. The projects involved sediment samples and column settlement testing, geotechnical evaluation of rubble breakwater foundations, preliminary design of the Bessie Heights Marsh Restoration, stability analysis of a rock training dike at the mouth of the Colorado River, and design of intertidal to high marsh as the UT Marine Science Institute involved the building of a wetland marsh island just east of the Seabrook shoreline.	<input type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Ship Channel Widening and Deepening, Lower Galveston Bay Beneficial Use Sites, Houston Ship Channel, Houston, Texas	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> Project Manager for conducting field exploration, lab testing, and engineering analysis as part of the widening and deepening of the Houston Ship Channel. Involved with technical issues that addressed slope stability analysis, evaluation of the suitability of the dredged materials for dike construction, and recommendations for slope configuration along various reaches of the channel. Conducted an extensive field exploration program in the lower Galveston Bay.	<input type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Morgan's Point Shoreline Protection, Morgans Point, Texas	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> As Principal In Charge, provided guidance and review of slope stability analysis and also provided a resource for common dredging and erosion control practices in the Galveston Bay area.	<input type="checkbox"/> Check if project performed with current firm	

APPENDIX B:

ARCHITECT-ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

STATEMENTS OF QUALIFICATION FOR CONSTRUCTION MATERIALS TESTING LABORATORY SERVICES AND FORENSIC INVESTIGATION AND EVALUATION OF IN-PLACE CONSTRUCTION Hidalgo County, Texas

2. PUBLIC NOTICE DATE

05.08.2024

3. SOLICITATION OR PROJECT NUMBER

N/A

B. ARCHITECT-ENGINEER POINT OF CONTACT

1. NAME AND TITLE

David Frederick Martinez, Ph.D., P.E., CEO

2. NAME OF FIRM

ATSER, LP

6. TELEPHONE NUMBER

281-999-9961

7. FAX NUMBER

281-999-9962

8. E-MAIL ADDRESS

atsrproposals@atsr.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V	PARTNER SUBCON- TRACTOR			
a.	✓			ATSER, LP <input type="checkbox"/> CHECK IF BRANCH OFFICE	1150 Richcrest Drive Houston, TX	Referee Testing Engineer
b.			x	HVJ Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	3120 South Dairy Ashford, Houston, Texas 77072	Assistant Referee Testing Engineer
c.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		20. EXAMPLE PROJECT KEY NUMBER
		1
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
ATSER HCTRA Ship Channel Bridge ID 121020325603075 – Houston, TX	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	Bridge Project Management Services	65%
23. RELEVANT PROJECTS		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Harris County Toll Road Authority	Dir Roberto Trevino	(281) 875-3279
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		



HCTRA's cable stayed Ship Channel Bridge in Houston will replace the existing Jesse H. Jones Bridge, a cast-in-place segmental box girder structure that was built in 1982. The projected growth in traffic to almost triple what it is today demanded an increase in travel lanes from 2 to 4 lanes in each direction with full 10-foot shoulders while maintaining the existing right of way boundaries. HCTRA took into consideration the Houston Ship Channel waterway and navigational structures to completely traverse the channel and accommodate future widening and deepening planned by the Port of Houston, resulting in a main span length between pylons of 1,320 feet. The 175-foot vertical clearance to the channel matches that of the Fred Hartman cable-stayed bridge located at the entrance to Galveston Bay. Six teams competed to build this first phase of the project, and Ship Channel Constructors (SCC) a Joint Venture between Traylor Bros. Inc., and Zachry Construction Corporation won the bid of \$588 million. The original contract value included construction of new southbound bridge approach bridges, the full concrete segmental cable-stayed main bridge in both travel directions, and the removal of the existing bridge's segmental main span unit. ATSERS was named as part of the Program Management Team overseeing the construction and material testing of the new structure.

ATSERS provides oversight for all Quality Assurance and Quality Control Construction Material Testing firms on project site. ATSERS provided quality management, assuring technician certification, training, proficiency, split samples between laboratories. Additionally, ATSERS audits laboratory equipment calibration, maintenance, qualifications, and certifications such as A2LA etc.

ATSERS as part of the PMT worked with COWI on the technical analysis to determine constructibility, tolerability, environmental concerns, and risk analysis. Through value engineering the final recommendation was a negotiated revision to the original main span design to incorporate a concrete and steel girder composite deck system with COWI and a restart of construction with the original contractors through the process of early contractor involvement. ATSERS and their Project Management Information System (Manage-IT) and their industry leading Laboratory Information Management System (Assure-IT) are handling the change from a Design Bid Build project to a quasi-Design Build system to fast track the work using work package releases. ATSERS was tasked to build the new Quality Assurance Management Plan for the structural steel girder system for both the shop fabrication and the field inspection. ATSERS worked with COWI to determine the steel coating system and testing procedures for the final product. As of May 2023, the newly designed main span pylons are under construction and the structural steel shop fabrication facility has been approved. The first mill deliveries of steel to fabricate the structural members is scheduled to arrive within the next month.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE
	ATSERS (Prime)	Houston, Texas	Bridge Program Management Team

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION <i>(City and State)</i> Harris County Toll Road Authority Barrier Free Program Management	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2020-Current	CONSTRUCTION <i>(if applicable)</i>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Harris County Toll Road Authority	b. POINT OF CONTACT NAME Robert Trevino Executive Director	c. POINT OF CONTACT TELEPHONE NUMBER 281-889-0247
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Scope: This project includes the engineering and design services for the following tollway systems: Sam Houston Tollway, Hardy Toll Road, Westpark Tollway, and Fort Bend Parkway. The types of projects include toll plaza replacements or toll plaza rehabilitations with approach work and conversion from traditional cash-lane/electronic toll lane mix to an All-Electronic Tolling environment. The engineering services desired include but are not limited to preparation of plans, specifications, and estimates of costs of construction projects, detailed studies on specific items, or any other toll or engineering-related activity as determined by the HCTRA.

Services provided include negotiating between Harris County Tollway Authority and engineer of record the role of the geotechnical oversight; providing governance and project management for 12 geotechnical segments, providing white papers to standardize and communicate Harris County and TxDOT standards applicable to project, providing independent field audit of existing geotechnical conditions and potential testing requirements per existing segment conditions, evaluating proposed geotechnical scopes and budgets and provided recommendations for re-evaluation against ATSER® field analysis.

Process Enhancements included implementing communication channels between design groups and Providing system to audit geotechnical subconsultants proposed budgets. ATSER®Value Added for Harris County Toll Road through program wide implementation of geotechnical guidance. Roadway segments geotechnical budgets were baselined and normalized. Outlier segments were analyzed for completeness and appropriateness of work proposed. This process still allowed variance in testing by individual segment geotechnical engineers where increased testing due to conditions or design structural requirements warranted increased testing procedures. Standardization lowered project costs and enhanced geotechnical engineering report quality to their segment engineers of record.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ATSER, LP	(2) FIRM LOCATION <i>(City and State)</i> Houston, Texas	(3) ROLE Geotechnical Management
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) Glacier Drive, Polebridge Loop, and North Fork of the Flathead River	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER FHWA, USDOT	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Glacier Drive and Polebridge Loop:

Reconstruction of Glacier Drive: This will extend for 1.3 miles from the end of the Polebridge Bridge to the intersection with Polebridge Loop (MP 0.2 to 1.5) to provide a 20-foot-wide roadway.

Proposed Traffic Control During Construction: Construction-related delays to public traffic are expected, with a maximum of 30 minutes per passage through the project area.

North Fork Road:

Aggregate Surface Course: A high-quality aggregate surface course will be applied to North Fork Road to improve its aesthetics and durability, ensuring a longer lifespan and reduced maintenance needs.

Create Drainage Ditch: A new drainage ditch will be constructed alongside North Fork Road to enhance water management, prevent water accumulation, and maintain the road's structural integrity.

Glacier Drive:Variable Depth Recycled Aggregate Base & Riding Surface: This approach will use variable-depth recycled aggregate for the base and riding surface of Glacier Drive, ensuring road stability while minimizing environmental impact.

Ditch Lines: Ditch lines will be established along Glacier Drive to optimize water runoff, prevent erosion, and promote efficient drainage.

Blankenship Road/Benton Stage Road:Recycled 8" Aggregate Base & Riding Surface: Recycled materials will be used for an 8-inch aggregate base and riding surface on Blankenship Road and Benton Stage Road. This eco-friendly approach not only improves road quality but also reduces waste.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME ATSER	(2) FIRM LOCATION (City and State) 1150 Richcrest Drive, Houston, Texas	(3) ROLE Construction Services
b. (1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c. (1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d. (1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e. (1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f. (1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 2
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21. TITLE AND LOCATION (City and State) Harris County Road Construction, Harris County, Texas	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES NA	CONSTRUCTION (if applicable) June 2021-current

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Harris County Engineering Department	b. POINT OF CONTACT NAME Corey Ritter corey.ritter@eng.hctx.net	c. POINT OF CONTACT TELEPHONE NUMBER 713-274-1559
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Scope: Construction materials testing and inspection for a \$10.1 million-dollar project that added and reconstructed Gessner Rd from West Road to Beltway 8. The reconstruction consists of access management through median opening modifications (matching existing right of way), sidewalks and driveways replacement, upgrading subsurface public utilities, two dry bottom detention ponds, and associated landscaping. Services Provided include:

- o Retrieval of soil samples for cement-stabilized sand, stabilized base, and/or backfill materials.
 OMD Standard Proctor - Treated (D698), OMD Modified Proctor - Treated (Tex-120-E), Cement Sand Compressive Strength (D1633), Soil Atterberg Limits (ASTM D4318), Soil Finer than -200 Sieve (AASHTO T11, ASTM D1140) and Optimum Lime Content - pH Method (D6276)
- o In-place density on a bituminous concrete base and surface roadway repair.
- o Asphalt laboratory testing that includes: Determination of Density and Maximum Theoretical Gravity of Compacted Bituminous Mixture (TEX-207-F), Molding Superpave Specimens (TEX-241-F), Extraction Gradation (ASTM D6307) and Theoretical Maximum Specific Gravity (RICE) of Bituminous Mixture (ASTM D-2041) Asphalt roadway base and surface bulk specific gravity testing on asphalt cores.
- o In-place density test on utility backfill, structure backfill, paving subgrade, and stabilized paving subgrade.
- o Concrete field testing of slope paving, wing walls, retaining walls, and roadway paving.
- o The excavated detention pond material was used for roadway embankment/fill. Required, sampling, classifying, and reporting of materials characteristics in a timely manner.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME ATSER, LP	(2) FIRM LOCATION (City and State) Houston, Texas	(3) ROLE Construction Materials Testing
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER
21. TITLE AND LOCATION (City and State) USACE Galveston District - Freeport and Vicinity Coastal Storm Risk Management Project	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable)	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER USACE Galveston District	b. POINT OF CONTACT NAME Kimberly Heenan	c. POINT OF CONTACT TELEPHONE NUMBER 512-468-4829
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The project entailed comprehensive geotechnical engineering and environmental restoration efforts, with a focus on various aspects of sediment analysis, stability evaluation, and design of marine structures. Key Components: Sediment Samples and Column Settlement Testing: Conducted extensive sediment sampling and column settlement testing to assess the geotechnical properties of the soil. Analyzed sediment samples to determine particle size distribution, compressibility, and consolidation characteristics, providing crucial data for subsequent engineering analyses. Geotechnical Evaluation of Rubble Breakwater Foundations: Evaluated the geotechnical stability of rubble mound breakwater foundations. Assessed the bearing capacity and settlement potential of the foundation materials to ensure structural integrity and longevity of the breakwater. Preliminary Design of the Bessie Heights Marsh Restoration: Developed preliminary designs for the restoration of the Bessie Heights Marsh. Focused on restoring natural hydrology, improving habitat conditions, and enhancing the ecological function of the marsh. Stability Analysis of a Rock Training Dike at the Mouth of the Colorado River: Conducted stability analysis for the proposed rock training dike. Evaluated potential failure modes and provided recommendations for design improvements to enhance stability and resilience. Design of Intertidal to High Marsh for UT Marine Science Institute: Designed intertidal to high marsh habitats for the UT Marine Science Institute. The project involved creating a wetland marsh island east of the Seabrook shoreline. Conducted a geotechnical investigation to prepare for island construction, ensuring suitability of site conditions. HVJ Geotechnical Investigation and Reporting: HVJ performed a detailed geotechnical investigation per EM 1110-1-1804 standards. The investigation included the preparation of a comprehensive report that presented: Stability analysis of the proposed breakwaters. Estimates of bottom displacement and side slopes for wetland mounds. Assessment of properties of borrow source material. Engineering analyses of recommended cross-section stability were performed per EM 1110-2-1902 standards. Outcome: The project successfully integrated geotechnical engineering principles with environmental restoration techniques to design and implement stable and sustainable marine structures. The detailed investigations and analyses ensured the proposed designs met the necessary stability and environmental criteria, contributing to the overall success and longevity of the restoration and construction efforts.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME HVJ Associates, Inc.	(2) FIRM LOCATION (City and State) Houston, Texas	(3) ROLE Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

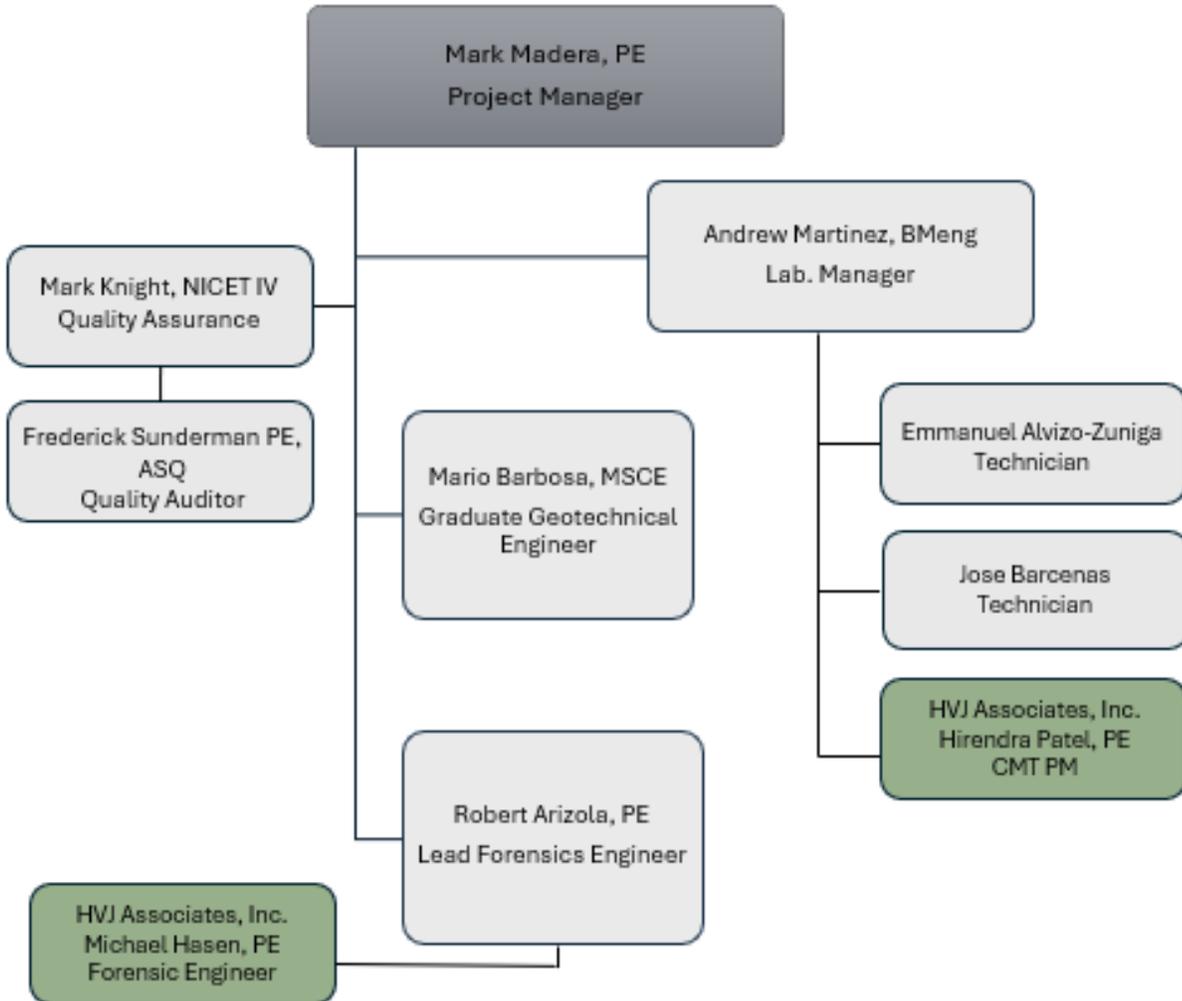
26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F <i>(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)</i>									
		1	2	3	4	5	6	7	8	9	10
Mark Madera	Project Manager	X	X	X	X						
Frederick Sunderman	Quality Auditor	X	X	X							
Mark Knight	Quality Assurance	X	X	X	X						
Mario Barbosa	Graduate Laboratory Engineer	X	X		X						
Andrew Martinez	Graduate Field Engineer	X	X	X	X						
Robert Arizola	Forensics Engineer	X	X		X						
Emmanuel Alvizo-Zuniga	Technician	X	X	X	X						
Jose Barcenas	Technician		X	X	X						
Hirendra Patel	Construction Materials Testing, HVJ Project Manage		X			X					
Michael Hasen	HVJ Forensic Engineer		X			X					

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NUMBER	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	ATSER Harris County Toll Road Authority Ship Channel Bridge	6	
2	Harris County Toll Road Authority Barrier Free Program Management	7	
3	Glacier Drive, Polebridge Loop, and North Fork of the Flathead River	8	
4	Harris County Road Construction, Harris County, Texas	9	
5	USACE Galveston District - Freeport and Vicinity Coastal Storm Risk Management Project	10	

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.



I. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

31. NAME AND TITLE
 David Frederick Martinez and Chief Executive Officer

32. DATE

Appendix C:

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

FORM CIQ

<p>This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.</p> <p>This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).</p> <p>By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.</p> <p>A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.</p>	<p>OFFICE USE ONLY</p> <p>Date Received</p>
<p>1 Name of vendor who has a business relationship with local governmental entity.</p> <p style="text-align: center;">N/A</p>	
<p>2 <input type="checkbox"/> Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)</p>	
<p>3 Name of local government officer about whom the information is being disclosed.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">Name of Officer</p>	
<p>4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.</p> <p style="margin-left: 40px;">A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?</p> <p style="margin-left: 80px;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-left: 40px;">B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?</p> <p style="margin-left: 80px;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.</p>	
<p>6 <input type="checkbox"/> Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).</p>	
<p>7</p> <p style="text-align: center;">  _____ Signature of vendor doing business with the governmental entity </p> <p style="text-align: right;"> 06.13.2024 _____ Date </p>	

Appendix D:



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
2/16/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

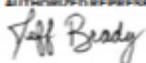
PRODUCER Brady, Chapman, Holland & Associates 10055 West Gulf Bank Houston TX 77040	CONTACT NAME: PHONE (A/C, No. Ext): 713-688-1500 FAX (A/C, No.): 713-688-7967 E-MAIL ADDRESS: ecerts@bch-insurance.com	
	INSURER(S) AFFORDING COVERAGE	
INSURED Atser, LP 1150 Richcrest Drive Houston TX 77060	INSURER A: Admiral Insurance Company NAIC # 24856	
	INSURER B: Continental Insurance Company 35289	
	INSURER C: National Fire Ins. Co. of Hartford 20478	
	INSURER D:	
	INSURER E:	
INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 991804398 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR (NSD) (NVR)	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		7034284064	8/6/2023	8/6/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 100,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/PROP AGG \$ 2,000,000
C	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY		7034284081	8/6/2023	8/6/2024	COMBINED SINGLE LIMIT (Per occurrence) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 40,000		7034284078	8/6/2023	8/6/2024	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	7034284050	8/6/2023	8/6/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liability		EO00003260208	8/6/2023	8/6/2024	Each Claim Aggregate 2,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
The policy includes Blanket additional insured on the general liability per form CNA74858 0115 and CNA75079 1016 automobile per form CA2048 1013, with a waiver of subrogation on the general liability per form CNA74858 0115, automobile per form CA0443 1120 and workers compensation per form WC420304B when required by written contract. This insurance is primary and non-contributory as respects general liability per form CNA74858 0115 and Auto as per form CNA71527 101Z. The policy includes a Blanket 30 day Notice of Cancellation on the automobile per form CNA68021 0213 and workers compensation per form WC420304B 0614 as required by written contract.

CERTIFICATE HOLDER *INFORMATION ONLY INFORMATION ONLY INFORMATION ONLY	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
--	--



Sylvester Turner,
Mayor

CITY OF HOUSTON

Office of Business Opportunity



ATSER, L.P.

is duly certified as a

Minority Business Enterprise (MBE)

Certified Categories:

Certification Number: 21-7-4322

NAICS 236220: CONSTRUCTION MANAGEMENT, COMMERCIAL AND INSTITUTIONAL BUILDING

NAICS 541330: ENGINEERING SERVICES

NAICS 541380: TESTING LABORATORIES (EXCEPT MEDICAL, VETERINARY)

NAICS 541511: COMPUTER SOFTWARE PROGRAMMING SERVICES, CUSTOM

NAICS 541611: ADMINISTRATIVE MANAGEMENT AND GENERAL MANAGEMENT CONSULTING SERVICES

NAICS 561110: OFFICE ADMINISTRATIVE SERVICES

Director of Office of Business Opportunity

ATSER, L.P.
1150 Richcrest Drive
Houston, TX 77060
Certification #21-7-4322
Dear David Martinez:

CONGRATULATIONS! Your application for certification as a City of Houston Disadvantaged Business Enterprise (DBE) is approved. The approval is contingent upon your firm maintaining certification eligibility and cooperation with the annual update process on each anniversary date.

We have certified ATSER, L.P., only for Geotechnical,(CMT)Construction & Program Mgmt. Environmental and Computer Programming Services, Engineering Services, Administrative management and General Management Consulting Services, and Office Administrative Services. You are being listed in the Directory of certified M/W/S/DBE, in the following Directory Capability listing:

NAICS: NAICS 236220: CONSTRUCTION MANAGEMENT, COMMERCIAL AND INSTITUTIONAL BUILDING
NAICS 541330: ENGINEERING SERVICES
NAICS 541380: TESTING LABORATORIES (EXCEPT MEDICAL, VETERINARY)
NAICS 541511: COMPUTER SOFTWARE PROGRAMMING SERVICES, CUSTOM
NAICS 541611: ADMINISTRATIVE MANAGEMENT AND GENERAL MANAGEMENT CONSULTING SERVICES
NAICS 561110: OFFICE ADMINISTRATIVE SERVICES

The certification covers only the company, that is listed in this letter and on the attached certificate, not any other company with which you may be associated, and only for those specific functions mentioned herein.

Now that you are certified, the adventure begins. You will also receive emails on upcoming contracting opportunities, networking events, and free training. Check our website at www.houstontx.gov/obo/index.html for valuable resource information.

Here is important information that you need to know:

Each year, one month prior to the anniversary date of your certification, you will receive instructions on how to complete the Annual Update Form and Affidavit. This form must be completed and returned along with a signed copy your Business Income Tax (Form 1120, 1065 or 1040 All Schedules including Schedule C). Please note that for Tax Returns not yet filed under an extension of time to file, a copy of the extension will suffice. If you do not complete and return the above items, your certification may be revoked.

Also, failure to report company changes to us such as (ownership changes, address, phone number, business structure changes, etc.), or any subsequently discovered material misrepresentation in the certification application or in the execution of a contract, will be reason for revocation of certification for up to a five-year period.

It is your responsibility to periodically monitor the online M/W/S/DBE Directory at <https://houston.mwdbbe.com/VendorSearch.asp> to ensure the accuracy of your contact information and profile. Attached is a copy of your firm's certification profile. If there are any changes to your firm's contact information (name, address, phone, fax, email), please contact our office immediately at (832) 393-0600 so that the appropriate adjustments can be made.

HVJ South Central Texas-M&J, Inc.
Attn: Muhammad Mustafa
4201 Freidrich Lane
Suite 110
Austin, TX 78744

RE: DBE/ACDBE ANNUAL REVIEW

Dear Mr. Mustafa:

Congratulations!

This letter is to inform HVJ South Central Texas-M&J, Inc. that the January 2, 2020 annual review has been completed. This review confirms the continued eligibility of the firm as a Disadvantaged Business Enterprise (DBE) for purposes of the US Department of Transportation's (DOT) Disadvantaged Business Enterprise (DBE) Program. The City of Austin is a member of the Texas Unified Certification Program (TUCP) and adheres to the DOT standards set forth in 49 CFR Part 26 and Part 23.

If you are a certified Interstate DBE/ACDBE, as such, we are continuing to recognize your current certification with your home agency.

This DBE certification is valid at any Texas entity that receives DOT funds and has a DBE Program for the following NAICS Code(s):

NAICS 541330: ENGINEERING SERVICES
NAICS 541330: ENVIRONMENTAL ENGINEERING SERVICES
NAICS 541330: GEOLOGICAL ENGINEERING SERVICES
NAICS 541380: GEOTECHNICAL TESTING LABORATORIES OR SERVICES
NAICS 541380: SOIL TESTING LABORATORIES OR SERVICES
NAICS 541380: TESTING LABORATORIES
NAICS 541620: ENVIRONMENTAL CONSULTING SERVICES

As a DBE you must provide to the recipient (SMBR), every year on the anniversary of the date of your certification, an affidavit sworn to by the firm's owner(s) before a person who is authorized by state law to administer oaths or an unsworn declaration executed under penalty of perjury of the laws of the United States. This affidavit must affirm that there have been no changes in the firm's circumstances affecting its ability to meet size, disadvantaged status, ownership, or control requirements of this part or any material changes in the information provided in its application form, except for changes about which you have notified the recipient under paragraph (i) of this section. The affidavit shall specifically affirm that your firm continues to meet SBA business size criteria and the overall gross receipts cap of this part, documenting this affirmation with supporting documentation of your firm's size and gross receipts. If you fail to provide this affidavit in a timely manner, you will be deemed to have failed to cooperate under §26.109(c).

This firm's next Annual Review documents are due prior to December 31, 2020.

If you are a City of Austin registered vendor, you are responsible for maintaining accurate information on your vendor profile. You are asked to update any changes related to your business in the City's Vendor Connection system at https://www.austintexas.gov/financeonline/vendor_connection/index.cfm. You can perform these changes daily from 7:00AM to 7:00PM. If you need assistance making changes, please contact Vendor Registration at (512) 974-2018 or by email at vendorreg@austintexas.gov.

Thank you for your interest in the program and we wish you continued success. Please contact the City of Austin's Certification Division at (512) 974-7645 if you need further information.

Ana Bernal
Business Development Counselor I
512-974-7014 or Ana.Bernal@austintexas.gov.

Certified Profile

Business & Contact Information

BUSINESS NAME	HVJ Associates, Inc.
OWNER	Herbert V. Johnson
ADDRESS	6120 South Dairy Ashford Road Houston, TX 77072 [map]
PHONE	281-933-7388
FAX	281-933-7293
EMAIL	hjohnson@hvj.com
WEBSITE	http://www.hvj.com

Certification Information

CERTIFYING AGENCY	City of Houston
CERTIFICATION TYPE	DBE - Disadvantaged Business Enterprise
CERTIFIED BUSINESS DESCRIPTION	Geotechnical Testing Laboratories or Services/ Engineering and Environmental Consulting Services/ Construction Management

Commodity Codes

Code	Description
NAICS 236220	Construction management, commercial and institutional building
NAICS 237110	Construction management, water and sewage treatment plant
NAICS 237110	Construction management, water and sewer line
NAICS 237310	Construction management, highway, road, street and bridge
NAICS 237990	Construction management, tunnel
NAICS 541330	Engineering services
NAICS 541380	Geotechnical testing laboratories or services
NAICS 541620	Environmental consulting services



MTC
MATERIALS TESTING
CENTER

**USACE CERTIFICATE
OF
LABORATORY VALIDATION**

Atser, LP
1150 Richcrest Drive
Houston, TX,
Samuel Saucedo
(832) 457-5025



ERDC
ENGINEERING RESEARCH & DEVELOPMENT CENTER

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

**THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:
27 SEP 2021 AT 10:41 HOURS**

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 09/22/2023

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>



Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

AGGREGATE

Aggregate - C 40 - Opt - Organic Impurities
 Aggregate - D 75 - Opt - Sampling
 Aggregate - C 117 - Req - Material Finer than 75 µm (No. 200) Sieve
 Aggregate - C 127 - Req - Specific Gravity & Absorption in Coarse Aggregate
 Aggregate - C 128 - Req - Specific Gravity & Absorption in Fine Aggregate
 Aggregate - C 131 - Opt - Los Angeles Abrasion Resistance on Small-Size Coarse Aggregate
 Aggregate - C 136 - Req - Sieve Analysis of Aggregates
 Aggregate - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
 Aggregate - C 566 - Opt - Total Moisture Content
 Aggregate - C 702 - Opt - Reducing Samples to Testing Size
 Aggregate - C 1077 - Opt - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
 Aggregate - C 1252 - Opt - Uncompacted Void Content of Fine Aggregate (as influenced by particle shape, surface texture, and grading)
 Aggregate - D 3666 - Opt - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

BITUMINOUS

Bituminous - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
 Bituminous - D 979 - Req - Sampling Bituminous Paving Mixtures
 Bituminous - D 1560 - Req - Resistance to Deformation & Cohesion by Hveem
 Bituminous - D 2041 - Req - Theoretical Maximum Specific Gravity & Density (Rice)
 Bituminous - D 2726 - Req - Bulk Specific Gravity and Density
 Bituminous - D 3203 - Req - Percent Air Voids
 Bituminous - D 3666 - Opt - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
 Bituminous - D 5444 - Req - Mechanical Size Analysis of Extracted Aggregate
 Bituminous - D 6307 - Req - Asphalt Content of Hot-Mix Asphalt by Ignition Method

SOILS

Soils - E 329 - Opt - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Soils - D 421 - Req - Dry Preparation for Particle Size Distribution & Soil Constants
Soils - D 422 - Req - Particle Size Analysis
Soils - D 698 - Req - Compaction Characteristics by Standard Effort
Soils - D 854 - Req - Specific Gravity of Soils
Soils - D 1140 - Req - Material Finer than 75 μ m (No. 200) Sieve
Soils - D 1557 - Req - Compaction Characteristics by Modified Effort
Soils - D 1883 - Req - CA Bearing Ratio (CBR)
Soils - D 2166 - Req - Unconfined Compressive Strength
Soils - D 2216 - Req - Water Content
Soils - D 2435 - Req - One-Dimensional Consolidation Properties
Soils - D 2487 - Req - Classification of Soils
Soils - D 2488 - Req - Description & Identification of Soils (Visual-Manual Procedure)
Soils - D 3740 - Opt - Soil and Rock Testing Standards (Quality Standard)
Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index
Soils - D 4546 - Req - One-Dimensional Swell or Settlement Potential
Soils - D 4643 - Req - Determination of Water Content of Soil by Microwave Oven
Soils - D 4972 - Opt - pH of Soils
Soils - D 6938 - Req - Density and Water Content by Shallow Depth Nuclear Method

CERTIFICATION REQUIRED BY TEXAS GOVERNMENT CODE SECTION 2270.001

By signing below, Company hereby certifies the following:

1. Company does not boycott Israel; and
2. Company will not boycott Israel during the term of the contract.

Company Name: ATSER, LP

SIGNED BY: 

Print Name & Title: David Frederick Martinez, Ph.D., P.E., CEO

Date Signed: 06.13.2024

The following definitions apply to this state statute:

(1) "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and

(2) "Company" means an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company, or affiliate of those entities or business associations that exists to make a profit.

This Certification is required from a Company if the Company has 10 or more full-time employees and the contract for goods or services (which includes contracts formed through purchase orders) has a value of \$100,000 or more that is to be paid wholly or partly from public funds of the governmental entity.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ATSER LP
 1150 Richcrest Drive
 Houston, TX 77060
 Dr. Suresh Gudavalli, P.E. Phone: 281 999 9961
 Email: Suresh.gudavalli@atscr.com

Valid To: March 31, 2025

Certificate Number: 0456.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

CONSTRUCTION MATERIALS ENGINEERING

- ASTM: C1077 (Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation);
 D3666 (Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials);
 D3740 (Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction);
 E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection)

CONSTRUCTION MATERIALS TESTING

<u>Test Method:</u>	<u>Test Description:</u>
Aggregates:	
ASTM C117	Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131/C131M	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142/C142M	Clay Lumps and Friable Particles in Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Reducing Samples of Aggregate to Testing Size
ASTM D75/D75M ¹	Sampling Aggregates
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
Tex-401-A	Sieve Analysis of Fine and Coarse Aggregate
Tex-403-A	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-404-A	Determining Unit Mass (Weight) of Aggregates

(A2LA Cert. No. 0456.01) 06/14/2023

Page 1 of 3

Test Method:	Test Description:
Bituminous:	
ASTM D75/D75M ¹	Sampling Aggregates
ASTM D979/D979M ¹	Sampling Bituminous Paving Mixtures
ASTM D1560	Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus
ASTM D2041/D2041M	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2726/D2726M	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2950/D2950M ¹	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3203/D3203M	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549/D3549M (Method A only) ¹	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D6307	Asphalt Content of Hot-Mix Asphalt by Ignition Method
Tex-200-F	Sieve Analysis of Fine and Coarse Aggregates
Tex-201-F	Bulk Specific Gravity and Water Absorption of Aggregate
Tex-205-F	Laboratory Method of Mixing Bituminous Mixtures
Tex-206-F	Compacting Specimens Using the Texas Gyrotray Compactor (TGC)
Tex-207-F (Except Part VI and VIII)	Determining Density of Compacted Bituminous Mixtures
Tex-208-F	Test for Stabilometer Value of Bituminous Mixtures
Tex-217-F	Determining Deleterious Material and Decantation Test for Coarse Aggregates
Tex-222-F ¹	Sampling Bituminous Mixtures
Tex-227-F	Theoretical Maximum Specific Gravity of Bituminous Mixtures
Tex-236-F	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
Concrete:	
ASTM C31/C31M ¹	Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42/C42M	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C78/C78M	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M ¹	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M ¹	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M ¹	Sampling Freshly Mixed Concrete
ASTM C173/C173M ¹	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174/C174M	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
ASTM C192/C192M	Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M ¹	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C293/C293M	Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C617/C617M	Capping Cylindrical Concrete Specimens
ASTM C1064/C1064M ¹	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders



Test Method:	Test Description:
Soils:	
ASTM D421 (Withdrawn 2016) ²	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 (Withdrawn 2016) ²	Particle-Size Analysis of Soils
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1633	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 ¹	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D3282	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D6913/6913M	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
Tex-120-E	Soil-Cement Testing

¹ This laboratory performs field testing activities for these tests.

² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ATSER LP
 1150 Richcrest Drive
 Houston, TX 77060
 Dr. Suresh Gudavalli, P.E. Phone: 281 999 9961
 Email: Suresh.gudavalli@atsr.com

GEOTECHNICAL

Valid To: March 31, 2025

Certificate Number: 0456.02

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with the A2LA R209 – Specific Requirements for Harris County/Houston, TX: Geotechnical Engineering Testing Laboratory Accreditation Program), accreditation is granted to this laboratory to perform the following tests under the ASTM recommended practice D3740:

<u>Test Method:</u>	<u>Test Description:</u>
Soils:	
ASTM D421 (Withdrawn 2016) ¹	Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants
ASTM D422 (Withdrawn 2016) ¹	Particle-Size Analysis of Soils
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2166	Unconfined Compressive Strength of Cohesive Soil
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2435	One-Dimensional Consolidation Properties of Soils Using Incremental Loading
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 ²	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D2850	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D4221	Dispersive Characteristics of Clay Soils by Double Hydrometer
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4546	One-Dimensional Swell or Collapse of Cohesive Soils
ASTM D4647/D4647M	Identification and Classification of Dispersive Clay Soils by the Pinhole Test
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4767	Consolidated Undrained Triaxial Compression Test for Cohesive Soils
ASTM D6572	Determining Dispersive Characteristics of Clay Soils by the Crumb Method
ASTM D6913/6913M	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

<u>Test Method:</u>	<u>Test Description:</u>
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
<u>Soil-Cement:</u>	
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D1633 (Withdrawn 2016) ¹	Compressive Strength of Molded Soil-Cement Cylinders

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² This laboratory performs field testing activities for these tests.





Accredited Laboratory

A2LA has accredited

ATSER LP
Houston, TX

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system [refer to joint ISO-ILAC-IAF Communiqué dated April 2017].



Presented this 14th day of June 2023.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0456.01
Valid to March 31, 2025

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HVJ ASSOCIATES, INC.
6120 South Dairy Ashford Road
Houston, TX 77072
Mayur Patel Phone: 281 933 7388

Valid To: May 31, 2025

Certificate Number: 0066.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

CONSTRUCTION MATERIALS ENGINEERING

ASTM: C1077 (Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation);
D3666 (Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials);
D3740 (Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction);
E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection).

CONSTRUCTION MATERIALS TESTING

<u>Test Method:</u>	<u>Test Description:</u>
Aggregates:	
ASTM C29/C29M	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C88/C88M	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C117	Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131/C131M	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702/C702M	Reducing Samples of Aggregate to Testing Size
Tex-400-A	Sampling Flexible Base, Stone, Gravel, Sand, and Mineral Aggregates
Tex-401-A	Sieve Analysis of Fine and Coarse Aggregate
Tex-402-A	Fineness Modulus of Fine Aggregate
Tex-403-A	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-406-A	Material Finer Than No. 200 Sieve in Mineral Aggregates (Decantation Test for Concrete Aggregates)

Aggregates (cont.):	
Tex-408-A	Organic Impurities in Fine Aggregate for Concrete
Tex-410-A	Abrasion of Coarse Aggregate using the Los Angeles Machine
Bituminous:	
ASTM D979 ¹	Sampling Bituminous Paving Mixtures
ASTM D2950 ¹	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D3665 ¹	Random Sampling of Construction Materials
ASTM D6307	Asphalt Content of Hot-Mix Asphalt by Ignition Method
Tex-200-F	Sieve Analysis of Fine and Coarse Aggregates
Tex-201-F	Bulk Specific Gravity and Water Absorption of Aggregate
Tex-203-F	Sand Equivalent Test
Tex-205-F	Laboratory Method of Mixing Bituminous Mixtures
Tex-206-F (Part III)	Compacting Specimens using the Texas Gyratory Compactor (TGC)
Tex-207-F	Determining Density of Compacted Bituminous Mixtures
Tex-208-F (Part I)	Test for Stabilometer Value of Bituminous Mixtures
Tex-222-F	Sampling Bituminous Mixtures
Tex-227-F	Theoretical Maximum Specific Gravity of Bituminous Mixtures
Tex-236-F	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method
Cement:	
ASTM C780 Annex A.6	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
Concrete:	
ASTM C31/C31M ¹	Making and Curing Concrete Test Specimens in the Field
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42/C42M	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C78/C78M ¹	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138/C138M ¹	Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M ¹	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M ¹	Sampling Freshly Mixed Concrete
ASTM C173/C173M ¹	Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174/C174M	Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
ASTM C192/C192M	Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M ¹	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C496/C496M	Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C617/C617M	Capping Cylindrical Concrete Specimens
ASTM C805/C805M ¹	Rebound Number of Hardened Concrete
ASTM C1064/C1064M ¹	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1231/C1231M	Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders
Lime:	
Tex-600-J ¹	Sampling and Testing Lime (Part III - Bulk Density)

Test Method:	Test Description:
Masonry:	
ASTM C1019	Sampling and Testing Grout
Soils:	
ASTM D558/D558M	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D1140	Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1633	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2166/D2166M	Unconfined Compressive Strength of Cohesive Soil
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2487	Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 ¹	Description and Identification of Soils (Visual-Manual Procedure)
ASTM D2850	Unconsolidated-Undrained Triaxial Compression Test on Cohesive Soils
ASTM D4221	Dispersive Characteristics of Clay Soil by Double Hydrometer
ASTM D4318/D4318M	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4647/D4647M	Identification and Classification of Dispersive Clay Soils by the Pinhole Test
ASTM D4718/D4718M	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Particle Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis

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² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.



Accredited Laboratory

A2LA has accredited

HVJ ASSOCIATES, INC.

Houston, TX

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 9th day of May 2023.

A blue ink signature of Trace McInturf, written over a horizontal line.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0066.01
Valid to May 31, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.