



UNITED INDEPENDENT SCHOOL DISTRICT AGENDA ACTION ITEM

TOPIC: Approval of change order No. 1 in the amount of \$112,000.00 for the design and construction of a turning lane at the intersection of HWY 359 and EG Ranch Road.

SUBMITTED BY: Ignacio Alaniz **OF:** Construction Management

APPROVED FOR TRANSMITTAL TO SCHOOL BOARD: October 15, 2014

RECOMMENDATION:

Provide a right turning lane at the intersection of HWY 359 and EG Ranch Road as required by TX DOT, including site work, concrete paving, traffic markings, additional lamps at traffic light, sidewalks, ramps, pedestrian handrail and adjustment of existing grade drainage inlet as per design documents developed by CEC Engineering.

RATIONALE:

Modifications have been made to the existing EG Ranch Road as requested by TX DOT and AEP due to separation distance requirements associated with the AEP transmission line. TX DOT has approved a turning lane designed to comply with easement standards and traffic safety measures. See attached Explanation and Recommendation Letter from CEC Engineering, traffic engineering consultant for this project.

| | |
|---------------------------------|--------------------|
| Cost: Construction Cost | \$96,848.40 |
| Engineering Design Cost: | \$11,621.76 |
| Materials Testing: | \$3,529.84 |

Transportation Complex Budget: \$112,000.00

BUDGETARY INFORMATION:

General Fund CIP Budget 2014-2015

BOARD POLICY REFERENCE AND COMPLIANCE:

CV

**LEYENDECKER CONSTRUCTION, INC.
CONSTRUCTORS AND ENGINEERS**

LAREDO, TEXAS 78041

TELEPHONE (956)-722-0531
FAX (956)-722-8215

P. O. BOX 1827
4220 SANDERS

24-Sep-14
UISD Transportation Facility
C/O Mr. Enrique Rangel, P. E. Assistant Superintendent
C/O Mr. Ignacio Alaniz, Construction Director
3501 East Saunders
Laredo, Texas 78040

TRANSPORTATION FACILITY
Proposed Change Order Turning Lane

DESCRIPTION

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Provide turning lane per CEC construction documents including site work, conc paving, markings, sidewalks, pedestrian handrail, and adjustment of existing grate inlet | \$ 77,000.00 |
| Contingency allowance | \$ 10,000.00 |
| Subtotal | \$ 87,000.00 |
| GC fee at 10% | \$ 8,700.00 |
| Subtotal | \$ 95,700.00 |
| Bond Cost 1.20% | \$ 1,148.40 |
| Total | \$ 96,848.40 |

Sincerely,

Renee Cortes, Jr.

Renee Cortes, Jr.

cc: P.A. Leyendecker, job file



CIVIL ENGINEERING CONSULTANTS
DON DURDEN, INC.

October 2, 2014

Mr. Ignacio R. Alaniz, Jr., Construction Director
United Independent School District
3501 E. Saunders
Laredo, Texas 78041
Phone: (956) 473-7963

E0468600

RE: Traffic Signalization at Highway 359 and EG Ranch Road
Justification for Additional Turn Lane

Dear Mr. Alaniz,

As you are aware, the UISD Traffic Signalization project at Hwy 359 and EG Ranch Road has encountered several utility related conflicts during the construction of the project, which have caused "in the field" modifications to relocate the signal poles. In addition, the relocations of the signal poles created a situation where a redesign of the intersection was necessary to safely facilitate traffic through the intersection. Therefore, the supporting information and justifications for these necessary revisions are as follows:

1. The original designs for the signal pole locations were based upon the best available utility information provided by the various utility companies through the City of Laredo Utility Coordination Committee Meeting process. Additional above ground utility locates were also established by conducting on the ground surveys for verification of the existing improvements, which was compiled in the base drawings that were used for the designs.
2. Upon completion of the initial staking of the signal pole locations and prior to any construction, AEP and the Contractor (Star Operations, Inc.) determined that the proposed signal pole location at the southeast corner of the intersection would be too close for the Contractor to safely install given the equipment being used. Thus, with the assistance of all present, including TxDOT, CEC and UISD personnel, it was determined that the pole needed to be relocated to the current location, which was approximately 10' to the northwest from its original design location. This relocation prompted a redesign of the EG Ranch intersection with TxDOT to include an island around the new signal pole location and a turning lane with its individual signal. Alternative options were presented to TxDOT, however, they were either too cost prohibited and/or not accepted by TxDOT.
3. Subsequent relocations of the remaining poles were also adjusted in the field to accommodate and maintain proper signal alignments to avoid conflicts with existing identified utilities, power lines and poles. Also during the Contractor's (Star Operations, Inc.) subsurface investigations on the new locations, it was determined that additional minor adjustments needed to be made to avoid existing underground utilities that would have created a conflict.

SAN ANTONIO · LAREDO · BRYAN/COLLEGE STATION

Mr. Ignacio R. Alaniz, Jr.
Traffic Signalization at Highway 359 and EG Ranch Road
Justification for Additional Turn Lane
Page 2
October 2, 2014

In closing, the relocation of the southeast corner signal pole created a series of multiple adjustments to the other signal pole locations to maintain the proper alignments for adequate function of the intersection, which subsequently required a redesign of the intersection and the current change order request to Leyendecker's contract for the completion of the intersection.

Based on the stated series of events, CEC recommends approval of improvements identified in the change order to Leyendecker to complete the installation of the traffic signal project. To date, all that is remaining includes the intersection improvements by Leyendecker, the installation of the signal detectors for the new turn lane and adjustments of the signal lights by Star Operations and TxDOT's approval to turn on the signal. Star Operations will have its work completed within one day following completion of the intersection improvements by Leyendecker.

Should you have any questions regarding this justification letter for the additional improvements required by TxDOT, please feel free to contact me at (956) 729-7844.

Sincerely,
CIVIL ENGINEERING CONSULTANTS



Jeffrey G. Puig, P.E., R.P.L.S.
Principal – Laredo Division Manager

cc: UISD – Enrique Rangel, P.E., Assistant Superintendent for Facilities and Construction
 UISD – Ernesto Castillo-Mena P.E, Construction Manager

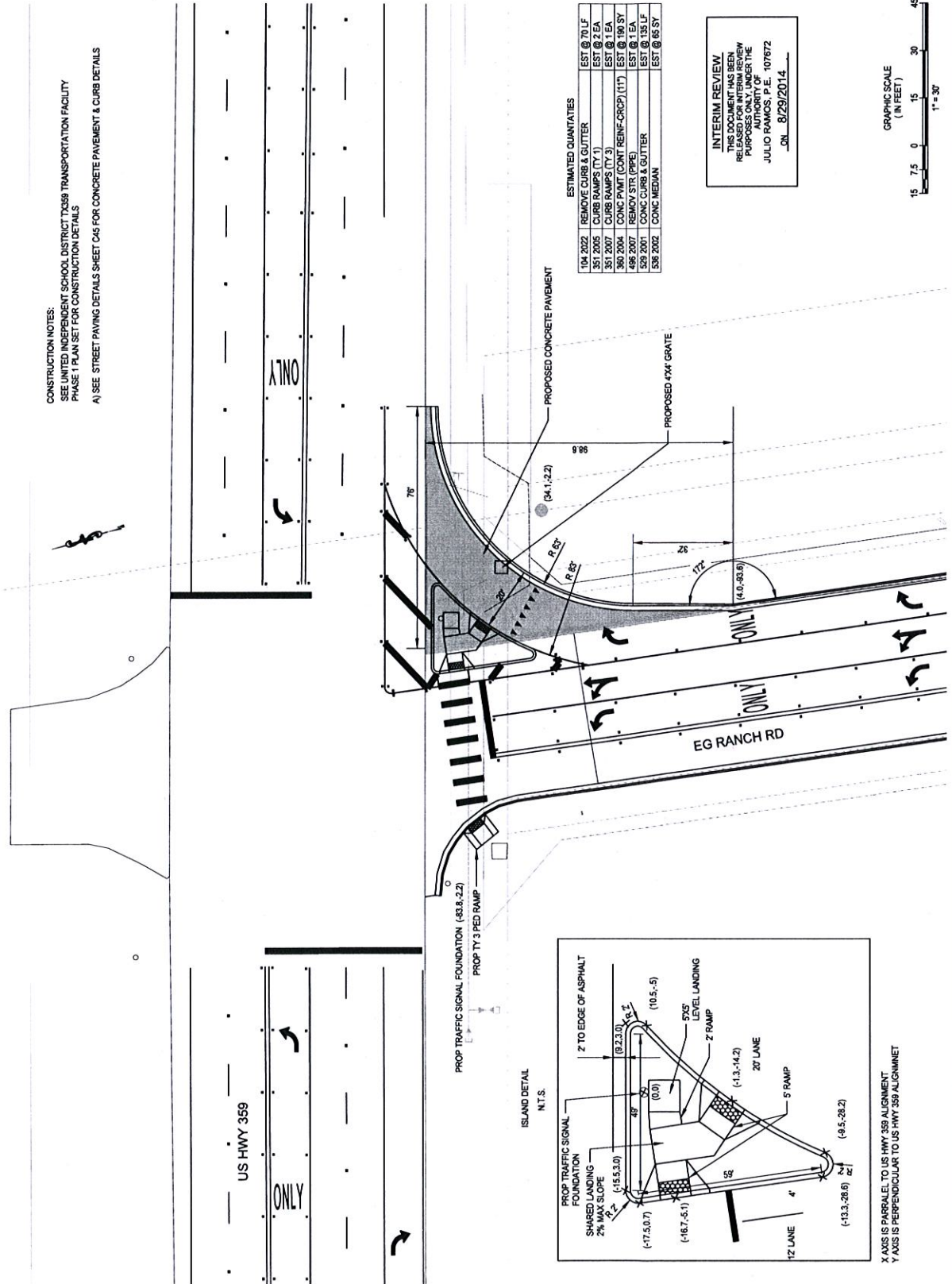
EG RANCH ROAD
INT LAYOUT

City of Laredo, Texas
EG RANCH RD

CPC
DON DURDEN, INC.
d.b.a. CIVIL ENGINEERING CONSULTANTS
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1071

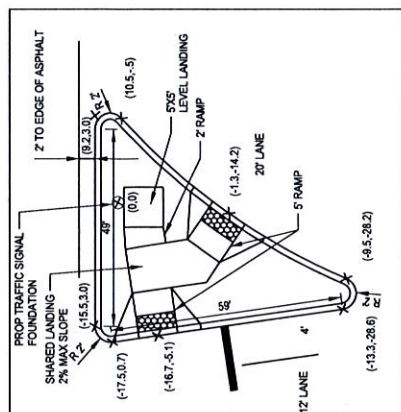
REGISTRATION # 2214
FAX: (210) 641-6440
TEL: (210) 641-6999
DATE: AUGUST 2014
JOB NUMBER: E0496400

CONSTRUCTION NOTES:
SEE UNITED INDEPENDENT SCHOOL DISTRICT D0369 TRANSPORTATION FACILITY
PHASE 1 PLAN SET FOR CONSTRUCTION DETAILS
A) SEE STREET PAVING DETAILS SHEET C45 FOR CONCRETE PAVEMENT & CURB DETAILS



| ESTIMATED QUANTITIES | EST @ 70 LF |
|----------------------------------------------|--------------|
| 104 2022 REMOVE CURB & GUTTER | EST @ 70 LF |
| 351 2005 CURB RAMP (TY 1) | EST @ 2 EA |
| 351 2007 CURB RAMP (TY 3) | EST @ 1 EA |
| 360 2004 CONC PAVMT (CONT REINFC-CRCP) (11') | EST @ 190 SY |
| 486 2007 REMOV STR (PIPE) | EST @ 1 EA |
| 539 2001 CONC CURB & GUTTER | EST @ 135 LF |
| 538 2002 CONC MEDIAN | EST @ 85 SY |

INTERIM REVIEW
THIS DOCUMENT HAS BEEN REVIEWED FOR CONSTRUCTION PURPOSES ONLY, UNDER THE AUTHORITY OF JULIO RAMOS, P.E. 107672
ON 8/29/2014



X AXIS IS PARALLEL TO US HWY 359 ALIGNMENT
Y AXIS IS PERPENDICULAR TO US HWY 359 ALIGNMENT