

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: F 2B24(119)

CONTROL: 0617-01-177

COUNTY: NUECES

LETTING: 04/04/2024

REFERENCE NO: 0402

PROPOSAL ADDENDUMS

- PROPOSAL COVER
- BID INSERTS (SH. NO.: ALL)
- GENERAL NOTES (SH. NO.: F-V)

- SPEC LIST (SH. NO.:)
- SPECIAL PROVISIONS:)
- ADDED:

DELETED:

- SPECIAL SPECIFICATIONS:
- ADDED:

DELETED:

OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
110-6001, 132-6006, 247-6466, 260-6002, 260-6073

ADDED THE FOLLOWING BID ITEMS:
104-6028

***** GENERAL NOTES *****

SHEET F-G, K, N-O: REVISED LANGUAGE DEALING WITH ITEMS 8, 423 & 504
SHEET H-I, L, M, P-V: REFORMATTED TEXT

***** PLAN SHEETS *****

SHEET 9 & 10: REVISED PAVEMENT DETAILS
SHEET 15B, 15C, 15E-15G: REVISED LANGUAGE DEALING WITH ITEMS, 8, 423 & 504
SHEET 15D, 15H-15J: REFORMATTED TEXT
SHEET 16, 16A-16G: REVISED TO REFLECT ABOVE CHANGES
SHEET 18: REVISED QUANTITIES & ADDED ITEMS TO REFLECT ABOVE CHANGES
DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

SHEET 31, 32, 249 & 451: REVISED SHEETS

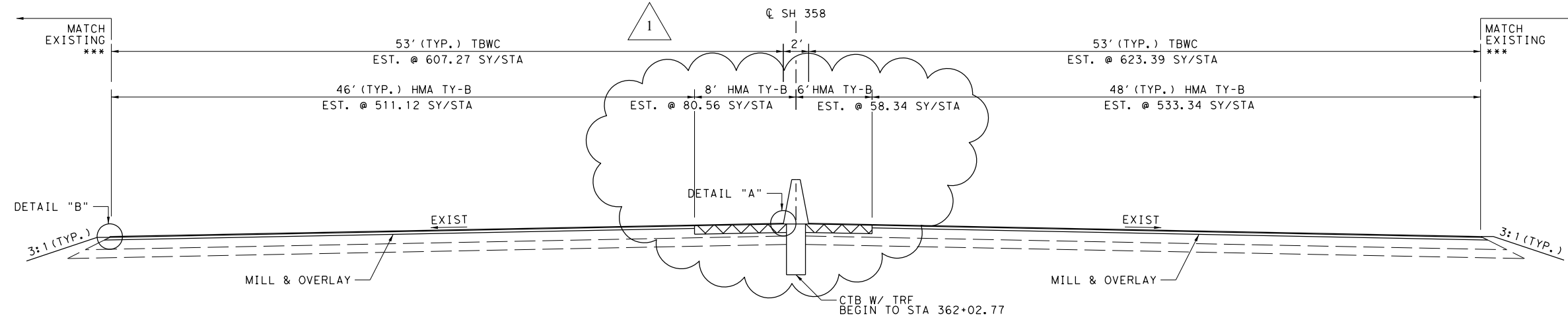
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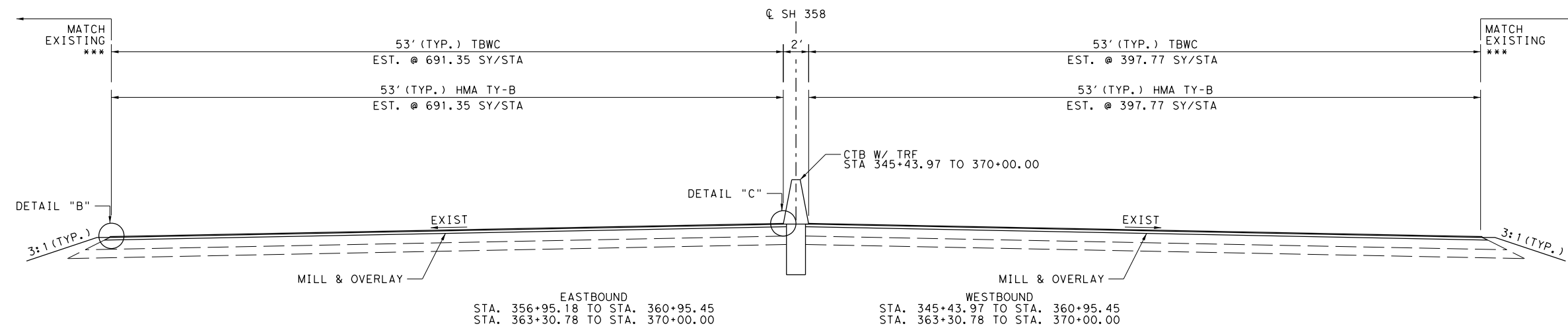
PROPOSED MAINLANES



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STA. 329+09.99	TO STA. 334+08.84
STA. 336+68.66	TO STA. 337+29.61

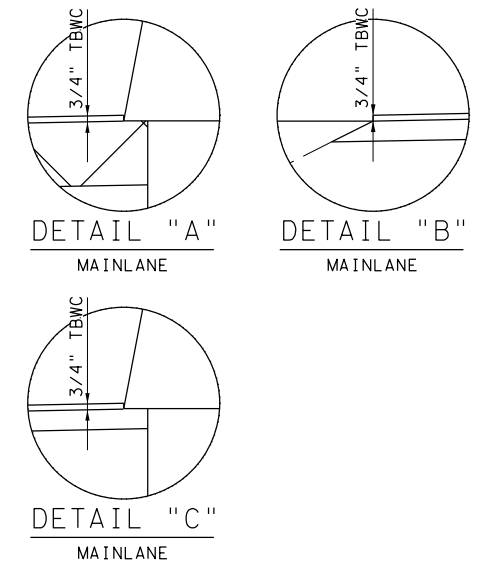
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STA. 329+09.99	TO STA. 334+08.84
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STA. 344+22.00	TO STA. 345+43.97

PROPOSED MAINLANES



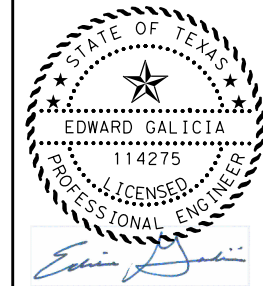
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WESTBOUND	
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STA. 363+30.78	TO STA. 370+00.00



NOTES:

- SEE ROADWAY PLAN SHEETS FOR MORE INFORMATION.
- REFER TO BRIDGE SHEETS FOR BRIDGE TYPICAL SECTIONS.
- REFER TO DRAINAGE SHEETS FOR ADDITIONAL DRAINAGE INFORMATION.
- WIDTHS SHOWN ARE TYPICAL.



3/29/2024

NO	DATE	REVISION	APPROVED

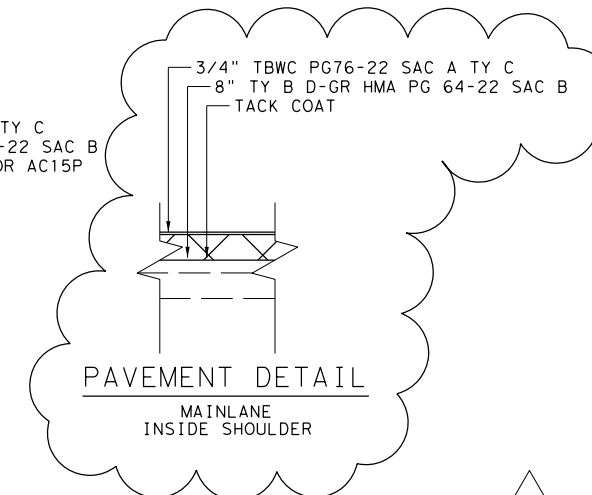
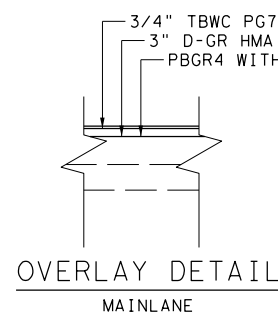
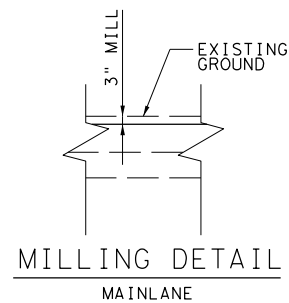
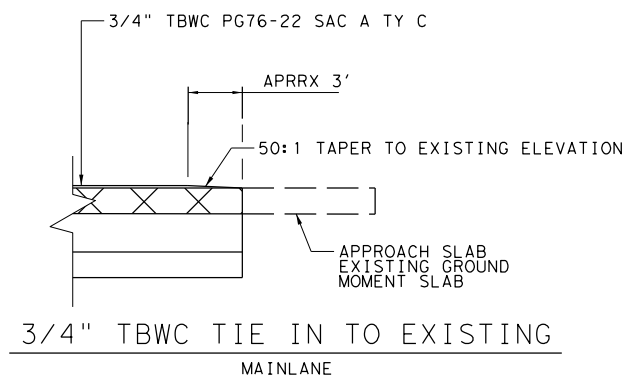
Michael Baker INTERNATIONAL
17721 Rogers Ranch Parkway
Suite 250
San Antonio, TX 78229
TBPE Registration No. 2677



SH 358 PROPOSED TYPICAL

SHEET 1 OF 6

DESIGNED BY	FED. RD. DIV. NO.	PROJECT NO.	HIGHWAY NO.
MBI	6	SEE TITLE SHEET	SH 358
DRAWN BY	STATE	DISTRICT	COUNTY
MBI	TEXAS	CORPUS	NUECES
CHECKED BY	CONTROL	SECTION	JOB
MBI	0617	01	177
VERIFIED BY			
MBI			9



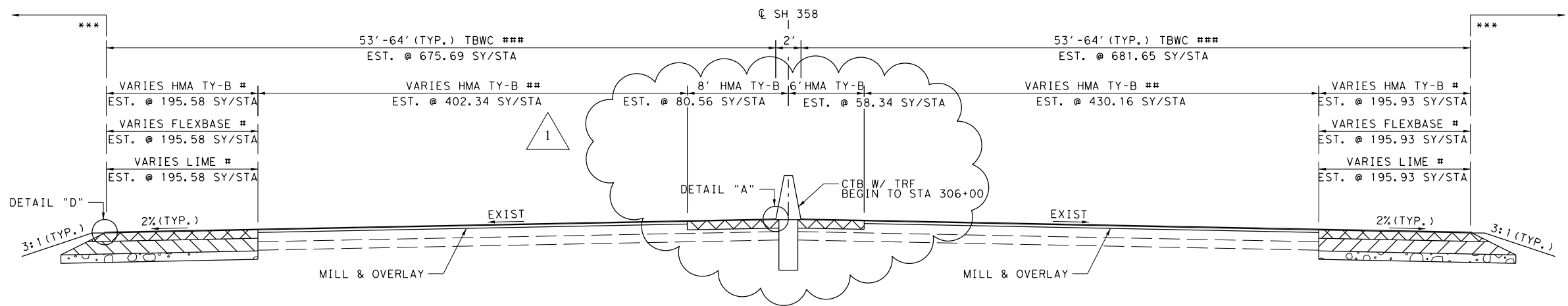
1 Revised 4/2/24

100% SUBMITTAL

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PROPOSED MAINLANES

EASTBOUND
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 STA. 306+45.33 TO STA. 329+09.99
 STA. 337+29.61 TO STA. 345+43.97

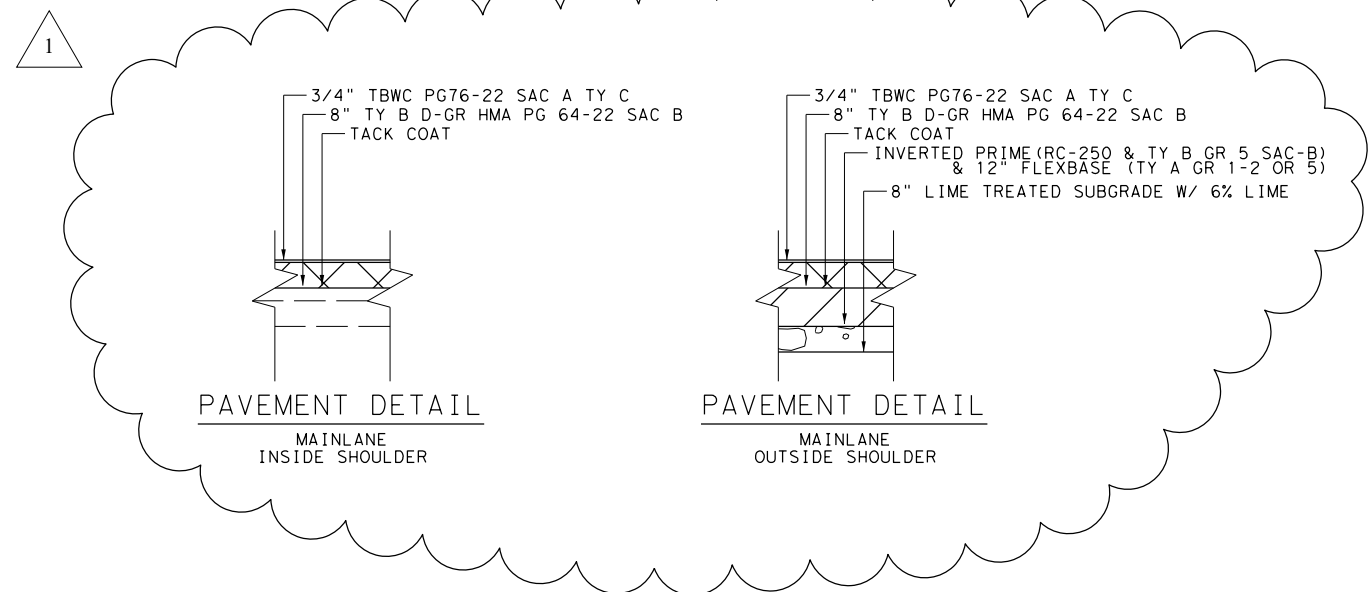
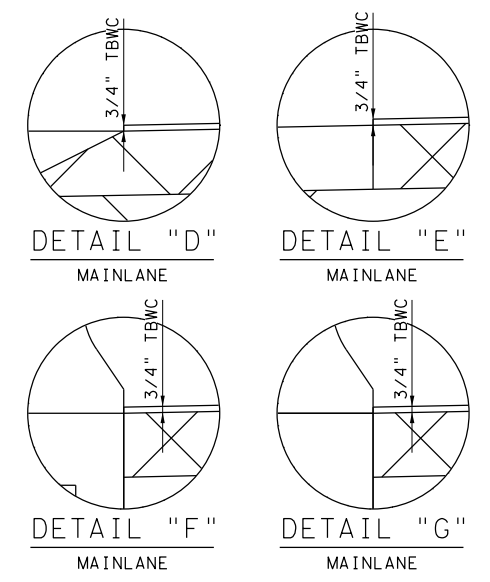
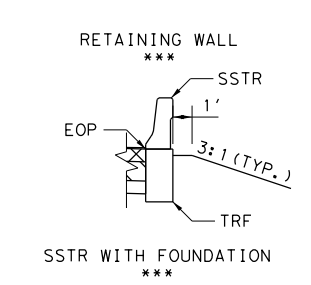
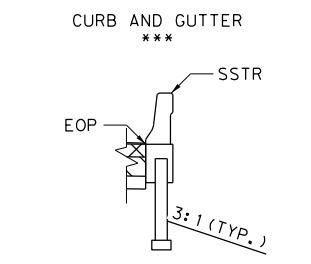
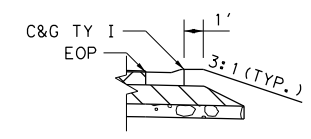
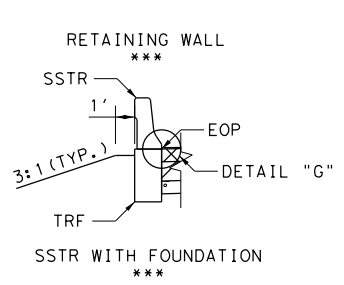
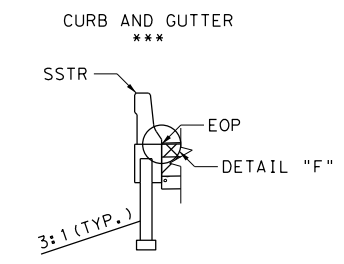
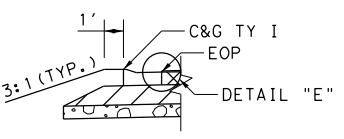
WESTBOUND
 STA. 286+64.65 TO STA. 295+00.00
 STA. 307+47.14 TO STA. 329+09.99
 STA. 337+29.61 TO STA. 344+22.00

STA.	### WIDTH	## WIDTH	# WIDTH
286+65.35 TO 287+31.20	54.30' - 54.30'	38.00'	8.30' - 8.30'
287+31.20 TO 291+75.20	54.30' - 53.00'	38.00'	8.30' - 7.00' *
291+75.20 TO 294+92.29	53.00' - 53.00'	38.00'	7.00' - 7.00'
306+45.33 TO 306+65.33	53.00' - 53.00'	37.00'	8.00' - 8.00'
306+65.33 TO 309+36.73	53.00' - 62.50'	37.00'	8.00' - 17.50' *
309+36.73 TO 313+86.39	64.00' - 64.00'	37.00'	17.50' - 17.50'
313+86.39 TO 325+60.81	64.00' - 64.00'	34.00'	20.50' - 20.50'
325+60.81 TO 328+89.99	64.00' - 53.00'	34.00'	22.00' - 11.00' *
328+89.99 TO 329+09.99	53.00' - 53.00'	34.00'	11.00' - 11.00'
337+29.61 TO 343+97.98	53.00' - 53.00'	33.00'	12.00' - 12.00'
343+97.98 TO 356+95.18	51.50' - 51.50'	41.00'	10.50' - 10.50'

STA.	### WIDTH	## WIDTH	# WIDTH
286+64.65 TO 289+66.27	55.39' - 53.00'	38.00'	9.39' - 7.00' *
289+66.27 TO 295+00.00	53.00' - 53.00'	38.00'	7.00' - 7.00'
307+47.14 TO 307+67.14	53.00' - 53.00'	38.00'	7.00' - 7.00'
307+67.14 TO 310+37.59	53.00' - 62.50'	35.00'	10.00' - 19.50' *
310+37.59 TO 313+86.39	64.00' - 64.00'	35.00'	21.00' - 21.00'
313+86.39 TO 325+60.81	64.00' - 64.00'	36.00'	20.00' - 20.00'
325+60.81 TO 328+89.99	64.00' - 53.00'	36.00'	20.00' - 9.00' *
328+89.99 TO 329+09.99	53.00' - 53.00'	36.00'	9.00' - 9.00'
337+29.61 TO 343+02.00	53.00' - 53.00'	33.00'	12.00' - 12.00'
343+02.00 TO 344+22.00	53.00' - 51.55'	33.00'	12.00' - 10.55'

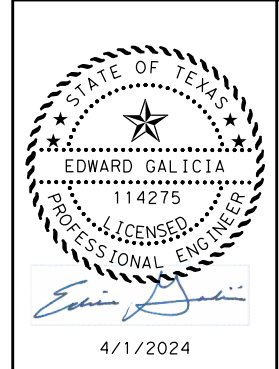
* RAMP TRANSITION LIMITS

* RAMP TRANSITION LIMITS



NOTES:

- SEE ROADWAY PLAN SHEETS FOR MORE INFORMATION.
- REFER TO BRIDGE SHEETS FOR BRIDGE TYPICAL SECTIONS.
- REFER TO DRAINAGE SHEETS FOR ADDITIONAL DRAINAGE INFORMATION.
- WIDTHS SHOWN ARE TYPICAL.



NO.	DATE	REVISION	APPROVED

Michael Baker INTERNATIONAL 17721 Rogers Ranch Parkway, Suite 250, San Antonio, TX 78229, TBPE Registration No. 2677



SH 358
 PROPOSED TYPICAL

DESIGNED BY	FED. RD. DIV. NO.	PROJECT NO.	HIGHWAY NO.
MBI	6	SEE TITLE SHEET	SH 358
DRAWN BY	STATE	DISTRICT	COUNTY
MBI	TEXAS	CORPUS	NUECES
CHECKED BY	CONTROL	SECTION	JOB
MBI	0617	01	177
VERIFIED BY			
MBI			

1 Revised 4/2/24

County: Nueces

Control: 0617-01-177

Highway: SH 358

No significant traffic generator events identified.

Roadway closures during the following key dates and/or special events are prohibited: November 20th through January 2nd, and the week of Spring Break, or any event as described by the Engineer.

Submit charge summary and invoices for Law Enforcement Personnel using the Department forms.

Patrol vehicles must be clearly marked to correspond with the officer's agency and equipped with appropriate lights to identify them as law enforcement. For patrol vehicles not owned by a law enforcement agency, markings will be retroreflective and legible from 100 ft. from both sides and the rear of the vehicle. Lights will be high intensity and visible from all angles. No payment will be made for law enforcement personnel needed for moving equipment or payment for drive time to/from the event site.

If the Contractor has a field office, provide an office location for a supervisory officer when event requires a supervising officer. This work is subsidiary.

A maximum combined rate of \$70 per hour for the law enforcement personnel and the patrol vehicle will be allowed. Any scheduling fee is subsidiary per Standard Specification 502.4.2.

Cancel law enforcement personnel when the event is canceled. Cancellation, minimums or "show up" fees will not be paid when cancellation is made 12 hours prior to beginning of the event. Failure to cancel within 12 hours will not be cause for payment for cancellation, minimums, or "show up" time. Payment of actual "show up" time to the event site due to cancellation will be on a case-by-case basis at a maximum of 2 hours per officer.

Alterations to the cancellation and maximum rate must be approved by the Engineer or pre-determined by official policy of the officer's governing authority.

ITEM 8

Prepare the progress schedule using the Critical Path Method (CPM). Submit two (2) 11" x 17" hard copies and an electronic file of the original or updated progress schedule. Submit the original progress schedule seven (7) days before the Preconstruction Conference.

Submit an updated progress schedule as directed to show proposed major changes, changes affecting compliance with the contract requirements, or changes affecting the critical path/controlling item of work.

Working days will be computed and charge in accordance with Article 8.3.1.4, "Standard Workweek".

General Notes

Sheet E

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Work above traffic is not allowed.

Night work, "defined as non-peak traffic hours", will be on Sunday thru Thursday from 9 PM to 6 AM. Work beyond these hours require approval from the Engineer 48 hours in advance.

Lane closures during the day will be from 8:30 AM to 4:30 PM. Work beyond these hours must receive approval from the Engineer 48 hours prior to closing the lane.

Any lane closed or obstructed beyond the period permitted will be assessed a lane rental charge. The following lane rental charges will apply:

Westbound/Eastbound Mainlane 1 Lane Closure: Weekdays/Weekends = \$3,400/hr.
Westbound/Eastbound Mainlane 2 Lane Closure: Weekdays/Weekends = \$15,000/hr.
Westbound/Eastbound Frontage Rd 1 Lane Closure: Weekdays/Weekends = \$5,300/hr.

Notify the Engineer at least 48 hours in advance of Friday, Saturday, or nighttime work.

The following conditions shall be given incentive credits and disincentive penalties, and any schedule developed shall reflect these priorities:



See the traffic control plans and narrative of Phase-3 for a detailed description of the work included in Milestone 1.

The contractor shall have 50 working days to complete this milestone.

The incentive credit for Milestone 1 shall be \$10,000 per day for a maximum of 15 days. The maximum credit allowable for early completion of Milestone 1 is \$150,000.

Working daytime charges for Milestone 1 will be computed and charged in accordance with Article 8.3.1.4, "Standard Workweek".

The time charges for the purpose of computing incentive and disincentive for Milestone 1 will begin with the closure of EB Nile Rd Exit Ramp. This includes completion of drainage system from inlet structure EB01 thru EB08 (see drainage plans), completion of embankment for proposed entrance ramp (REB01), completion of Curb and Gutter (C&G) and Riprap, and completion of proposed pavement section through Type B ACP.

The time charges for the purpose of computing incentive and disincentive for Milestone 1 will end with Substantial Completion of Work for Milestone 1. Milestone 1 is considered substantially completed when REB01 is complete, pavement markings, and signage are in place and REB01 is open to traffic.


Failure of Substantial Completion of Work for Milestone 1 within the established number of working days shown above will result in the assessment of disincentives using the daily road-



Revised 4/2/24

General Notes

Sheet F

 © 2024 Texas Department of Transportation GENERAL NOTES		FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
		6		SH 358
STATE	DISTRICT	COUNTY		SHEET NO.
TEXAS	CRP	NUECES		
CONTROL	SECTION	177		
0617	01	177		15B

County: Nueces

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user costs shown above for each working day more than those allowed for Milestone 1. There will be no maximum number of disincentive days.

ITEM 9

Monthly progress payments will be made for items of work completed by the 28th day of each month. Any work completed after the 28th will be included for payment in the subsequent monthly progress estimate.

Submit signed request for compensation of material-on-hand (MOH), including any requests from subcontractors, suppliers, or fabricators for MOH, at least two (2) working days prior to the end of the month on the Departments approved forms.

ITEM 100

Coordinate all right of way preparation activities with the project's Storm Water Pollution Prevention Plan (SWP3) and Environmental Permit Issues, and Commitments Sheet (EPIC) or as approved.

Prune trees and shrubs as directed. Use accepted pruning practices in accordance with Item 192 and as defined by the National Arborist Association. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

ITEM 110

For earth cuts, manipulate and compact subgrade in accordance with Item 132.3.4.2, "Compaction Methods, Density Control".

ITEM 132

Use embankment material with a plasticity index (PI) ranging from 10 to 40. Blend or treat approved materials to achieve the desired PI and pulverize the material so that 100% passes the 3-inch sieve. Retest materials as borrow sources change or when the material changes significantly. Notify the Engineer of the proposed material sources and of changes to material sources. The Engineer may sample and test project materials at any time before compaction throughout the duration of the project to assure specification compliance. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Obtain approval to incorporate existing salvaged asphaltic surface and flexible base materials in the surface layer. If approved, incorporate existing materials no larger than 2 inches in the

General Notes

Sheet G

County: Nueces

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surface layer. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

The estimated quantities for embankments adjacent to culverts and bridges were calculated using the average-end-area method.

ITEM 164

Restore and seed areas not shown in the plans disturbed by the Contractor's operations. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Notify the Engineer of the unavailability of any seed mix. Make changes to the seed mix as approved.

ITEM 168

Distribute water to only those areas shown in the plans or as directed. Excessive overspray will not be permitted.

Water all areas of the project to be seeded or sodded every two (2) days for 90 days or as directed. Apply water in a manner to ensure adequate moisture but not to erode the soil in-place. During periods of adequate moisture, mechanical watering may not be required as approved. Upon final stabilization, the Engineer may require the Contractor to continue watering as specified for a period not to exceed 30 days.

The Basis of Estimate below establishes the approximate quantity of water required to complete the 90-day watering cycle:

Rate	Water (Gal/Acre/Day)	Area (Acre)	Total Gallons (Min)
0.25 inch/week	1961	1	88,245

ITEM 247

For Table 1, "Material Requirements" a minimum plasticity index (PI) of 4 is required for Ty A Gr 1-2 Flex Base.

When requested, stake with blue tops, at 100-foot intervals, the lines and grade shown in the plans.

General Notes

Sheet H



Revised 4/2/24

 © 2024 GENERAL NOTES	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
	6			SH 358
	STATE	DISTRICT	COUNTY	
	TEXAS	CRP	NUECES	
	CONTROL	SECTION	SHEET NO.	
	0617	01	177	15C

County: Nueces

Control: 0617-01-177

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ITEM 302

Provide aggregates with a minimum surface aggregate classification (SAC) of "A" unless otherwise shown. The SAC for sources on the Department's Aggregate Quality Monitoring Program (AQMP) is listed in the Department's Bituminous Rated Source Quality Catalogue (BRSQC). SAC requirements apply to aggregates used on all final roadway surfaces, including shoulders.

Provide aggregates with a minimum surface aggregate classification (SAC) of "B" unless otherwise shown. The SAC for sources on the Department's Aggregate Quality Monitoring Program (AQMP) is listed in the Department's Bituminous Rated Source Quality Catalogue (BRSQC). SAC requirements apply to aggregates used on all base roadway surfaces, including shoulders.

For pre-coated and non-pre-coated aggregate Type PB and B, crushed gravel will not be used.

ITEM 310

A minimum prime coat curing period shall be determined by the Engineer during or prior to the preconstruction meeting. This curing period may be revised by the Engineer throughout the duration of the project pending weather and observed performance.

ITEM 316

Do not place surface treatment on exposed concrete structures unless directed.

Furnish a distributor equipped with a working hand hose.

Material rates shown are for estimating purposes only. Adjust actual rates based on the material used, the existing condition and type of roadway surface, and as approved.

When using asphalt emulsion, a minimum 24-hour curing period is required before placing any subsequent asphalt courses.

Remove vegetation and blade pavement edges prior to surfacing operations. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Broom and clean sealed sections of roadway and all adjacent paved surfaces, including the gutter line, of any surplus aggregate before opening to traffic or as directed.

A vacuum sweeper will be required for this project. This shall be considered subsidiary to Item 316. Vacuum sweeper must perform a test strip before use.

General Notes

Sheet I

County: Nueces

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ITEM 320

Provide the type of windrow pick-up equipment for approval prior to beginning paving operations.

Use of motor grader will not be permitted unless approved.

ITEM 354

Reclaimable asphalt material (RAP) may be retained only if incorporated into the project. Incorporate the RAP into the pavement mix design, into the backfill for pavement edges, into temporary structures, or as approved. Any excess RAP will be stockpiled at SH 44 and CR 67 in Robstown, Texas.

ITEM 400

Compact each layer to meet the density and consolidation of the adjacent undisturbed material.

Use cement-stabilized backfill for culvert and storm drains located beneath the pavement structure.

ITEM 420

Set a Department-furnished brass disk on all bridge abutments and culvert headwalls as directed. The work performed will not be measured or paid directly but will be subsidiary to pertinent Items.

Bent concrete will be a plans quantity item.

Place longitudinal construction joints at the lane line for bridge approach slabs. These construction joints will be subsidiary to Item 420.

ITEM 421

The Engineer will provide strength-testing equipment for acceptance testing.

Furnish curing facilities adequately sized for this project as approved.


Furnish test molds for cylindrical concrete specimens measuring four (4") inches in diameter by eight (8") inches in length.

General Notes

Sheet J



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	6		SH 358
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	TEXAS	CRP	NUECES
	CONTROL	SECTION	SHEET NO.
	0617	01	177

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ITEM 422

Power-wash the surface of the precast panels before placement of concrete deck concrete to the satisfaction of the Engineer.

ITEM 423

Provide surface finishes and colors as shown on retaining wall Schedule of Finishes and Color.

Furnish Type AS backfill for Mechanically Stabilized Earth (MSE) wall systems.

Furnish and install pipe underdrains for all retaining walls. Include the details and manufacturer, the limits and dimensions, the outfall location, and all details necessary to incorporate the underdrain system in the working drawings. The work performed for the underdrain system within and outside the limits of the retaining wall to the outfall will not be measured or paid for directly but will be subsidiary to pertinent Items.

Provide a detail(s) of the coping between the MSE wall and the bridge back wall with the submission of the construction drawings for approval.

Place the select and embankment backfill to the same elevation where possible. Do not exceed a 2 feet difference in elevation at any time.

Use the approved Mechanically Stabilized Earth (MSE) wall systems listed at: www.txdot.gov/business/resources/highway/bridge/approved-systems/mechanically-stabilized-earth.html.



Lateral limits of measurement for payment of embankment at retaining walls will be to the inside face of the retaining wall panels (strap side). Only the embankment above the existing ground line will be measured for payment.

ITEM 427

Provide a rub finish for Surface Area I unless otherwise directed.

ITEM 429

Areas to be repaired at each location shall be repaired in accordance with the Department's Concrete Repair Manual. The Contractor must prepare and submit formal procedures outlining repair plans and which proprietary implementation, so the Engineer has sufficient time to review. The Engineer must approve in writing any procedures that differ from those in the Concrete

General Notes

Sheet K

County: Nueces

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Repair Manual or materials that are not included in one of TxDOT's MPLS materials they plan to utilize. Submit the package a minimum of two weeks prior to performing repair.

ITEM 432

Saw cut the existing riprap to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in with new riprap. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Use Cap Option C for the joint between the face of the abutment and riprap as shown on the standard sheet "Concrete Riprap (CRR)".

Use intermediate toe walls as shown on the standard sheet "Concrete Riprap (CRR)".

Reinforce concrete riprap with flat sheets of welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction.

Weep holes shall be required unless otherwise directed by engineer.

ITEM 438

Provide for approval a method of cleaning and sealing joints to prevent any materials from falling through the joint when working over water or traffic. The method used and work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Perform the work for this item prior to any underseal operation.

ITEM 464

The work performed for concrete collars will not be measured or paid for directly but will be subsidiary to pertinent Items.

ITEM 465

The work performed for concrete collars will not be measured or paid for directly but will be subsidiary to pertinent Items.


Shape and route floor inverts passing through the manhole or inlet with Class "B" concrete. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

General Notes

Sheet L



Revised 4/2/24

 © 2024 GENERAL NOTES	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
	6			SH 358
	STATE	DISTRICT	COUNTY	
	TEXAS	CRP	NUECES	
CONTROL	SECTION	177		SHEET NO.
0617	01	177		15E

County: Nueces

Control: 0617-01-177

Highway: SH 358

ITEM 496

Contractor shall provide a demolition plan when demolishing the existing retaining wall to the Engineer for approval.

ITEM 500

"Materials on Hand" payments are not considered when determining partial payments.

ITEM 502

Furnish additional barricades, signs, and traffic handling as directed. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Traffic control for daytime lane closures shall be in accordance with applicable standards. Traffic control shall include temporary rumble strips in accordance with WZ (RS)-22.

When advanced warning flashing arrow panels are specified, furnish one (1) standby unit in good condition at the job site for immediate use.

Attach stop/slow paddle to a staff with a minimum length of 6 feet to the bottom of the sign.

The use of a pilot vehicle in conjunction with flaggers will be permitted. If used, provide positive and unrestricted communication between the driver of the pilot vehicle and the flaggers. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

Contractors' attention is directed to a construction speed zone, signage is subsidiary to Item 502.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

All items marked as optional on all traffic control standards shall be required unless otherwise approved by an Engineer.

Trail vehicle shall be required on all mobile traffic control operations.

General Notes

Sheet M

County: Nueces

Control: 0617-01-177

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TCP for Drainage Structures:

Any lapse in time and mitigation thereof between taking existing drainage structures out of commission and having proposed improvements in place shall be approved by the Engineer.

Drainage structures to be constructed crossing the frontage road shall generally be constructed as follows unless otherwise approved by the Engineer.

1. During non-peak traffic hours, and while maintaining one lane of traffic, saw-cut the pavement for subsequent excavation.
2. During the subsequent non-peak traffic hours period, and while maintaining one lane of traffic, construct approximately half the length of the pipe. Assuming construction starts on the outlet side of the system, make temporary ties to existing structures as necessary and as detailed in the plans. Cover the end of the pipe, backfill, and place HMAC to open back to two lanes of traffic the next day.
3. During the subsequent non-peak traffic hours period, and while maintaining one lane of traffic, complete construction of the pipe, making temporary ties to existing structures as necessary as detailed in the plans.
4. Complete construction of the inlet, within the typical limits of the frontage road widening construction, using TCP as shown on the "TCP Phase" layout sheets.

Flaggers are to be deemed necessary for temporary stopping traffic. Prolonged one-lane traffic or full closure of the frontage road (during non-peak traffic hours) for placement off cross-drainage will be permitted if approved by the Engineer. For full closures, signing shall be as shown in the plans, or, if the specific section is not specified, signing similar a comparable section of frontage road shall be used. HMAC for pipe placement is paid for in the plans. However, any HMAC that is necessary to open back to traffic in the interim and subsequently removed shall be subsidiary to Item 464, Reinforced Concrete Pipe.

Lighting for Nighttime Work:

For lighting purposes, nighttime is defined as occurring shortly before sunset until after sunrise.


Prior to any nighttime work, a lighting plan shall be submitted for approval by the Engineer. The plan shall outline the types of lighting systems that will be used. Before nighttime construction may begin, the lighting systems shall be demonstrated as being operational. Lighting needed to perform work shall not be paid directly and shall be considered subsidiary to Item 502. Vehicle headlights or construction equipment will not be considered as a substitute for proper nighttime lighting.

General Notes

Sheet N



Revised 4/2/24

 © 2024 GENERAL NOTES	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
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	TEXAS	CRP	NUECES	
	CONTROL	SECTION	177	
	0617	01	177	
				SHEET NO. 15F

County: Nueces

Control: 0617-01-177

Highway: SH 358



ITEM 504

Apply for and secure permits necessary for the buildings, and pay all utility meter deposits and service bills. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide 2 sets of keys for all facilities, which include but are not limited to the field office and/or laboratory.

Maintain all mechanical, electrical and plumbing facilities at all times.

Provide one (1) Type C Structure (Field Office). This field office shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

Furnish and install adequate equipment, outlets, lighting, air conditioning, heating and ventilation as approved. Arrange and install outlets as directed with no less than one (1) outlet per wall. Portable toilets will not be allowed.

Provide 2 standard size office desk, 4 office chairs, 1 conference table, 2 bookcases, and 2 locking filing cabinets as approved. Provide solar screens, blinds, or shades.

Provide 1 phone line and 2 phones. A cell phone will not be allowed unless approved.

Provide high speed internet connectivity, a paper copier / scanner/ printer / facsimile.

Provide one (1) Type D Structure (Asphalt Mix Control Laboratory). This laboratory shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

Provide hot water or a hot water dispenser capable of generating one (1) gallon of water at 140 degrees Fahrenheit with acceptable water pressure.

Use support blocks for stability and tied down portable structures according to applicable zoning requirements or as directed.

Provide Safety Equipment as follows:

- (1) ONE EYE WASH STATION
- (2) ONE FIRST AID KIT

Provide doors with a minimum width of 36 inches and 80 inches in height. Secure all exterior openings with bars.

Asphalt content will be measured by Ignition Method.

General Notes

Sheet O

County: Nueces

Control: 0617-01-177

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ITEM 506

Designate in writing a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements.

ITEM 512

Contractor will not be allowed to mix match between the two types of barriers unless approved by the Engineer.

The Contractor will retain ownership of precast concrete barrier at the end of the project, unless as directed by the Engineer.

ITEM 514

Align expansion joints with bridge decks and retaining wall coping joints.

ITEM 529

Construct an expansion joint at a depth equal to the depth of the curb, gutter, and combined curb and gutter every 40 feet. Construct a tooled joint every 10 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.

ITEM 530

If conditions warrant, driveway locations, widths, or lengths may be adjusted as directed.

ITEM 531

Reinforce sidewalks with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction unless otherwise shown.

Construct an expansion joint at a depth equal to the depth of the sidewalk every 40 feet. Construct a tooled joint every 5 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.


Mixing of detectable warning materials is not permitted on curb ramps.

General Notes

Sheet P



Revised 4/2/24

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0617	01	177		15G

County: Nueces

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ITEM 545

Furnish and install cylinder covers for all REACT 350's. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

ITEM 585

Use Surface Test Type B and Pay Adjustment Schedule 2 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

ITEM 610

Fabricate steel roadway illumination poles in accordance with the latest version of the Roadway Illumination Standards. Poles fabricated according to the latest version of the standards require no shop drawings. Alternate designs to the latest version of the standards or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

ITEM 614

Secure power to high mast illumination assemblies prior to erecting each pole assembly for obstruction lights.

ITEM 618

Seal all conduits terminating in ground boxes and pole foundations with a sealant made of polyurethane or equivalent that will cure in the presence of moisture. Ensure sealant is suitable for sealing ends with electrical conductor extending past the ends of the conduit. Inject the sealant a minimum of 3 inches and a maximum of 5 inches into the conduit.

Provide rigid metal conduit (RMC) elbows for all underground conduit bends of 45 degrees or more, including bends into ground boxes. Provide a polyvinyl chloride conduit (PVC) elbow in lieu of an RMC elbow for conduit 1 inch or larger. Ensure the elbow is the same schedule rating as the conduit to which it is connected.

Bond the RMC to the grounding conductor with grounding type bushings when the RMC is exposed or extends into the ground box.

Provide a flat, high tensile strength polyester fiber pull tape in each conduit to pull conductors.

Provide wide sweep conduit elbows.

General Notes

Sheet Q

County: Nueces

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Jacking of conduit will not be permitted.

All conduit runs under existing pavement or existing driveways shall be bored. Where boring is required, it shall be placed at a minimum depth of 3.5 feet from proposed grade.

ITEM 620

Grounding conductors that share the same conduit, junction box, ground box, or structure shall be bonded together at every accessible point in accordance with the current National Electrical Code and TxDOT requirements. Provide cable with green color insulation.

Ensure all grounding conductors size 8AWG and larger are stranded, except for the grounding electrode conductor that terminates at meter enclosure, which will be a solid conductor.

ITEM 624

Aggregate fill shall consist of 3/4 inch up to 2-inch coarse aggregate. Ensure aggregate is in place prior to setting box and conduits shall be capped.

ITEM 628

Provide a meter box for all electrical services.

ITEM 636

All sign wraps are subsidiary to Item 636.

Field verify vertical clearance as directed by the online Texas Department of Transportation manual, "Sign Guidelines and Applications Manual" chapter 6 section 3. The Engineer's approval will be required prior to fabrication.

Furnish new sign supports when replacing overhead signs. This will be subsidiary to pertinent items.

ITEM 644


Use crash worthy supports as shown on the BC sheets, the CWZTCD, or as directed for signs relocated using temporary supports. The work performed will not be measured or paid for directly but will be subsidiary to pertinent Items.

General Notes

Sheet R



Revised 4/2/24

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County: Nueces

Control: 0617-01-177

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All slip bases and hardware including but not limited to nuts, bolts, screws, and washers will be galvanized. All sign and housing components will be galvanized. Slip bases shall be clamp-style.

ITEM 658

Furnish round delineators and object markers.

ITEM 662

Use temporary flexible-reflective roadway marker tabs at the beginning and end of no passing zones as shown on the TCP (7-1)-13 for seal coats and WZ(STPM)-23 for hot mix overlays.

ITEM 666

Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc.

ITEM 677

Eliminate all conflicting pavement markings as work progresses or as directed.

Removal method must be approved by the Engineer.

No Surface Treatment Method on concrete surfaces.

When using Surface Treatment Method for asphaltic pavements, use a PB Grade 5 aggregate at an application rate of 1 cy/130 sy and asphalt AC-10, CRS-2 or HFRS-2 at an application rate of 0.39 Gal/sy.

ITEM 680

Do not activate traffic signals without approval. For new signal installations, notify the Engineer two (2) weeks in advance of the activation date for advertisement purposes and place the signals on flash as directed.

ITEM 681

Use LED optical units for the signal heads unless otherwise approved.

General Notes

Sheet S

County: Nueces

Control: 0617-01-177

Highway: SH 358

Provide a controller assembly capable of operating the temporary traffic signals as approved. Coordinate an inspection of the unit prior to installation in the field.

ITEM 684

Aluminum conductors will be permitted.

Coil an extra 5 feet of cable in each ground box, pole base, and controller assembly.

ITEM 687

Provide single-pole breakaway disconnects. Ensure the disconnects have a white colored marking and a permanently installed solid neutral.

ITEM 3076

SAC requirements apply to aggregates used on all surfaces.

Construct longitudinal joints with a joint maker providing a maximum one (1) inch vertical edge (1/2 inch desirable) with an adjacent 6:1 taper. Backfill edges within the same day.

The Engineer reserves the right to test all sources even if the source is listed in the Bituminous Source Rated Quality Catalog

Provide the testing lab samples to calibrate the ignition oven no later than five (5) working days prior to mix design verification.

Place HMA utilizing an automatic, dual, longitudinal-grade control system and automatic transverse-grade control system as specified under Item 320, unless otherwise approved by the Engineer.

Contractor shall temporarily cover all inlets during the milling and paving operations. Inlets shall be uncovered when milling and paving operations are complete. This shall be subsidiary to Item 3076 and not paid for directly.

ITEM 6001


Furnish the portable changeable message signs displaying the correct message at least seven (7) days prior to beginning work or as directed.

General Notes

Sheet T



Revised 4/2/24

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County: Nueces

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The Contractor's Responsible Person (CRP) will maintain full control of messages at all times.

The Engineer will provide the sign message text to use at each sign.

A minimum of 4 PCMS will be required. However, additional units may be necessary depending on the work in progress.

Standby time will not be measured or paid for directly but will be subsidiary to pertinent Items.

Portable changeable message signs may be moved, and message changed at any time as deemed necessary by the Engineer. This will be considered subsidiary to Item 6001.

ITEM 6185

A minimum of 2 TMAS will be required. However, additional units may be necessary depending on the work in progress.

Provide manufacturer's curb weight or certified scales weight ticket to the Engineer for approval.

General Notes

Sheet U

County: Nueces

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SPECIFICATION DATA

UNIT WEIGHT ESTIMATES

EXISTING SUBGRADE ----- 115 LBS/CF
FL BS (CMP IN PLC)(TY A GR 1-2 OR 5)FINAL ----- 135 LBS/CF
5" D-GR HMA TY-B SAC-B PG64-22 ----- 550 LBS/SY
TBWC PG76-22 SAC A TY C ----- 100 LBS/SY
TBWC (MEMBRANE) ----- 0.2 GAL/SY

RATES

TACK COAT ----- 0.08 GAL/SY

MATERIAL PROPERTIES

EMBANKMENT (FINAL)(DENS CONT)(TY C)
PLASTICITY INDEX ----- 40 MAX
PLASTICITY INDEX ----- 10 MIN

COMPACTION REQUIREMENTS FOR BASE COURSE

FL BS (CMP IN PLC)(TY A GR 1-2 OR 5)FINAL
DENSITY ----- 100% MIN
LIFTS ----- ALL

INVERTED PRIME COAT

ASPHALT TYPE ----- RC-250
AVERAGE ASPHALT RATE ----- 0.24 GAL/SY
AGGREGATE RATE ----- 1 CY/120 SY
AGGREGATE TYPE ----- B
AGGREGATE GRADE ----- 5 SAC-B

ONE COURSE UNDERSEAL


ASPHALT TYPE ----- AC-15P OR AC-20-5TR
AVERAGE ASPHALT RATE ----- 0.39 GAL/SY
AGGREGATE RATE ----- 1 CY/110 SY
AGGREGATE TYPE ----- PB
AGGREGATE GRADE ----- 4 OR 4S, SAC-B

General Notes

Sheet V



Revised 4/2/24

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0617-01-177

DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	100-6002	PREPARING ROW	STA	98.460				98.460	
	104-6009	REMOVING CONC (RIPRAP)	SY	2,363.000				2,363.000	
	104-6010	REMOVING CONC (RIPRAP)	CY	3.000				3.000	
	104-6011	REMOVING CONC (MEDIANS)	SY	1,036.000				1,036.000	
	104-6015	REMOVING CONC (SIDEWALKS)	SY	5,375.000				5,375.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	6,017.000				6,017.000	
	104-6021	REMOVING CONC (CURB)	LF	37,890.000				37,890.000	
	104-6023	REMOVING CONC (CTB)	LF	8,462.000				8,462.000	
	104-6024	REMOVING CONC (RETAINING WALLS)	SY	940.000				940.000	
	104-6028	REMOVING CONC (MISC)	SY	12,862.000				12,862.000	
	104-6037	REMOVE CONC (RAIL)	LF	500.000				500.000	
	105-6044	REMOVING STAB BASE AND ASPH PAV (10")	SY	11,928.000				11,928.000	
	110-6001	EXCAVATION (ROADWAY)	CY	32,231.000				32,231.000	
	132-6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	3,810.000				3,810.000	
	132-6007	EMBANKMENT (FINAL)(ORD COMP)(TY D)	CY	54.000				54.000	
	162-6002	BLOCK SODDING	SY	10,153.000				10,153.000	
	168-6001	VEGETATIVE WATERING	MG	487.000				487.000	
	247-6466	FL BS (CIP)(TY A GR 1-2 OR 5) FINAL POS	CY	11,562.000				11,562.000	
	260-6002	LIME (HYDRATED LIME (SLURRY))	TON	816.000				816.000	
	260-6073	LIME TRT (SUBGRADE)(8")	SY	40,342.000				40,342.000	
	310-6012	PRIME COAT (RC-250)	GAL	11,762.000				11,762.000	
	316-6177	AGGR(TY-B GR-5 SAC-B)	CY	427.000				427.000	
	316-6427	AGGR(TY-PB GR-4S OR TY-PB GR-4)(SAC-B)	CY	1,297.000				1,297.000	
	316-6448	ASPH (AC-15P OR AC-20-5TR)	GAL	57,255.000				57,255.000	
	354-6022	PLANE ASPH CONC PAV(0" TO 3")	SY	142,644.000				142,644.000	
	400-6005	CEM STABIL BKFL	CY	150.000				150.000	
	400-6006	CUT & RESTORING PAV	SY	39.000				39.000	
	401-6001	FLOWABLE BACKFILL	CY			20.000		20.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF	4,997.000		7,293.000		12,290.000	
	403-6001	TEMPORARY SPL SHORING	SF	8,150.000				8,150.000	
	410-6001	SOIL NAIL ANCHORS	LF	33,527.000				33,527.000	
	416-6004	DRILL SHAFT (36 IN)	LF	486.000				486.000	
	416-6005	DRILL SHAFT (42 IN)	LF	27.000				27.000	
	416-6006	DRILL SHAFT (48 IN)	LF	1,729.000				1,729.000	
	416-6007	DRILL SHAFT (54 IN)	LF	280.000				280.000	
	416-6019	DRILL SHAFT (SIGN MTS) (30 IN)	LF	16.000				16.000	
	416-6022	DRILL SHAFT (SIGN MTS) (48 IN)	LF	360.000				360.000	



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0617-01-177

DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

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PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	416-6023	DRILL SHAFT (SIGN MTS) (54 IN)	LF	45.000				45.000	
	416-6025	DRILL SHAFT (HIGH MAST POLE) (54 IN)	LF	33.000				33.000	
	416-6026	DRILL SHAFT (HIGH MAST POLE) (60 IN)	LF	133.000				133.000	
	416-6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	13.000				13.000	
	416-6033	DRILL SHAFT (TRF SIG POLE) (42 IN)	LF	17.000				17.000	
	416-6034	DRILL SHAFT (TRF SIG POLE) (48 IN)	LF	22.000				22.000	
	420-6013	CL C CONC (ABUT)	CY	50.000				50.000	
	420-6029	CL C CONC (CAP)	CY	408.000				408.000	
	420-6037	CL C CONC (COLUMN)	CY	363.000				363.000	
	420-6043	CL C CONC (FOOTING)	CY	60.000				60.000	
	420-6066	CL C CONC (RAIL FOUNDATION)	CY	2,234.000				2,234.000	
	422-6001	REINF CONC SLAB	SF	45,902.000				45,902.000	
	422-6015	APPROACH SLAB	CY	84.000				84.000	
	423-6001	RETAINING WALL (MSE)	SF	10,079.000				10,079.000	
	423-6022	RETAINING WALL (SOIL NAIL)(FACIA)	SF	12,609.000				12,609.000	
	425-6035	PRESTR CONC GIRDER (TX28)	LF	4,165.000				4,165.000	
	425-6037	PRESTR CONC GIRDER (TX40)	LF	1,886.000				1,886.000	
	425-6038	PRESTR CONC GIRDER (TX46)	LF	910.000				910.000	
	429-6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	8.750				8.750	
	432-6001	RIPRAP (CONC)(4 IN)	CY	6.000				6.000	
	432-6002	RIPRAP (CONC)(5 IN)	CY	631.000				631.000	
	432-6008	RIPRAP (CONC)(CL B)(RR8&RR9)	CY	16.000				16.000	
	434-6002	ELASTOMERIC BEARING (LAMINATED)	EA	168.000				168.000	
	438-6004	CLEANING AND SEALING EXIST JOINTS(CL7)	LF	504.000				504.000	
	450-6006	RAIL (TY T223)	LF	682.000				682.000	
	450-6023	RAIL (TY SSTR)	LF	10,095.000				10,095.000	
	450-6032	RAIL (TY C223)	LF	157.000				157.000	
	450-6054	RAIL (TY SSTR) (W/DRAIN SLOTS)	LF	1,186.000				1,186.000	
	451-6024	RETROFIT RAIL (TY SSTR)	LF	278.000				278.000	
	454-6018	SEALED EXPANSION JOINT (4 IN) (SEJ - M)	LF	312.000				312.000	
	464-6003	RC PIPE (CL III)(18 IN)	LF	4,206.000				4,206.000	
	464-6005	RC PIPE (CL III)(24 IN)	LF	874.000				874.000	
	464-6017	RC PIPE (CL IV)(18 IN)	LF	37.000				37.000	
	464-6018	RC PIPE (CL IV)(24 IN)	LF	39.000				39.000	
	464-6019	RC PIPE (CL IV)(30 IN)	LF	8.000				8.000	
	464-6025	RC PIPE (CL V)(18 IN)	LF	269.000				269.000	
	464-6026	RC PIPE (CL V)(24 IN)	LF	36.000				36.000	

DISTRICT	COUNTY	CCSJ	SHEET
Corpus Christi	Nueces	0617-01-177	16A



Estimate & Quantity Sheet

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DISTRICT Corpus Christi
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COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	465-6006	JCTBOX(COMPL)(PJB)(4FTX4FT)	EA	12.000				12.000	
	465-6007	JCTBOX(COMPL)(PJB)(3FTX5FT)	EA	3.000				3.000	
	465-6014	INLET (COMPL)(PCO)(3FT)(LEFT)	EA	18.000				18.000	
	465-6015	INLET (COMPL)(PCO)(3FT)(RIGHT)	EA	8.000				8.000	
	465-6016	INLET (COMPL)(PCO)(3FT)(BOTH)	EA	12.000				12.000	
	465-6018	INLET (COMPL)(PCO)(4FT)(LEFT)	EA	5.000				5.000	
	465-6019	INLET (COMPL)(PCO)(4FT)(RIGHT)	EA	2.000				2.000	
	465-6020	INLET (COMPL)(PCO)(4FT)(BOTH)	EA	6.000				6.000	
	465-6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	5.000				5.000	
	465-6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	11.000				11.000	
	465-6032	INLET (COMPL)(PCU)(3FT)(BOTH)	EA	5.000				5.000	
	465-6036	INLET (COMPL)(PCU)(4FT)(BOTH)	EA	2.000				2.000	
	465-6051	INLET (COMPL)(POD)(SFG)(3FTX3FT)	EA	7.000				7.000	
	465-6052	INLET (COMPL)(POD)(SFG)(4FTX4FT)	EA	4.000				4.000	
	465-6126	INLET (COMPL)(PSL)(FG)(3FTX3FT-3FTX3FT)	EA	4.000				4.000	
	465-6128	INLET (COMPL)(PSL)(FG)(4FTX4FT-4FTX4FT)	EA	11.000				11.000	
	465-6146	INLET(COMPL)(PSL)(SFG)(3FTX3FT-3FTX3FT)	EA	4.000				4.000	
	465-6147	INLET(COMPL)(PSL)(SFG)(4FTX4FT-4FTX4FT)	EA	7.000				7.000	
	465-6148	INLET(COMPL)(PSL)(SFG)(3FTX5FT-3FTX5FT)	EA	1.000				1.000	
	471-6005	RING & COVER	EA	53.000				53.000	
	479-6001	ADJUSTING MANHOLES	EA	30.000				30.000	
	479-6002	ADJUSTING INLETS	EA	23.000				23.000	
	479-6005	ADJUSTING MANHOLES (WATER VALVE BOX)	EA			27.000		27.000	
	479-6006	ADJUSTING INLET (CAP)	EA	18.000				18.000	
	496-6002	REMOV STR (INLET)	EA	15.000				15.000	
	496-6007	REMOV STR (PIPE)	LF	178.000				178.000	
	496-6099	REMOVE STR (RAIL)	LF	278.000				278.000	
	500-6001	MOBILIZATION	LS	1.000				1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	44.000				44.000	
	506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	933.000				933.000	
	506-6024	CONSTRUCTION EXITS (REMOVE)	SY	933.000				933.000	
	506-6035	SANDBAGS FOR EROSION CONTROL	EA	383.000				383.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	12,983.000				12,983.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	12,983.000				12,983.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	2,046.000				2,046.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	2,046.000				2,046.000	
	508-6001	CONSTRUCTING DETOURS	SY	2,083.000				2,083.000	



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0617-01-177

DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	512-6001	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	LF	28,800.000				28,800.000	
	512-6009	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	10,720.000				10,720.000	
	512-6010	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	1,460.000				1,460.000	
	512-6025	PORT CTB (MOVE)(SGL SLP)(TY 1)	LF	37,050.000				37,050.000	
	512-6033	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	19,220.000				19,220.000	
	512-6034	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	380.000				380.000	
	512-6049	PORT CTB (REMOVE)(SGL SLP)(TY 1)	LF	28,800.000				28,800.000	
	512-6057	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	21,440.000				21,440.000	
	512-6058	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	1,440.000				1,440.000	
	514-6001	PERM CTB (SGL SLOPE) (TY 1) (42)	LF	8,283.000				8,283.000	
	514-6004	PERM CTB (SGL SLOPE) (TY 4) (42)	LF	60.000				60.000	
	529-6002	CONC CURB (TY II)	LF	13,589.000				13,589.000	
	529-6007	CONC CURB & GUTTER (TY I)	LF	3,048.000				3,048.000	
	529-6008	CONC CURB & GUTTER (TY II)	LF	14,077.000				14,077.000	
	530-6004	DRIVEWAYS (CONC)	SY	5,689.000				5,689.000	
	531-6001	CONC SIDEWALKS (4")	SY	6,534.000				6,534.000	
	531-6019	CURB RAMPS (TY 2)	SY	198.000				198.000	
	531-6024	CURB RAMPS (TY 7)	SY	309.000				309.000	
	531-6031	CURB RAMPS (TY 22)	SY	25.000				25.000	
	536-6002	CONC MEDIAN	SY	203.000				203.000	
	542-6001	REMOVE METAL BEAM GUARD FENCE	LF	2,228.000				2,228.000	
	542-6002	REMOVE TERMINAL ANCHOR SECTION	EA	2.000				2.000	
	545-6003	CRASH CUSH ATTEN (MOVE & RESET)	EA	9.000				9.000	
	545-6005	CRASH CUSH ATTEN (REMOVE)	EA	11.000				11.000	
	545-6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA	16.000				16.000	
	545-6019	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	EA	8.000				8.000	
	610-6008	REMOVE RD IL ASM (CTB MOUNT)	EA	23.000				23.000	
	610-6009	REMOVE RD IL ASM (TRANS-BASE)	EA	2.000				2.000	
	610-6010	REMOVE RD IL ASM (U/P)	EA	25.000				25.000	
	610-6106	IN RD IL (U/P) (TY 2) (150W EQ) LED	EA	28.000				28.000	
	610-6263	IN RD IL (TY SP) 48S-8-8 (400W EQ) LED	EA	6.000				6.000	
	613-6002	HI MST IL POLE (100 FT)(100 MPH)	EA	1.000				1.000	
	613-6004	HI MST IL POLE (125 FT)(100 MPH)	EA	1.000				1.000	
	613-6006	HI MST IL POLE (150 FT)(100 MPH)	EA	2.000				2.000	
	618-6023	CONDT (PVC) (SCH 40) (2")	LF	4,608.000				4,608.000	
	618-6033	CONDT (PVC) (SCH 40) (4")	LF	5,800.000				5,800.000	
	618-6034	CONDT (PVC) (SCH 40) (4") (BORE)	LF	775.000				775.000	



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DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF	495.000				495.000	
	618-6062	CONDT (RM) (3/4")	LF	1,415.000				1,415.000	
	620-6002	ELEC CONDR (NO.14) INSULATED	LF	8,899.000				8,899.000	
	620-6007	ELEC CONDR (NO.8) BARE	LF	6,645.000				6,645.000	
	620-6008	ELEC CONDR (NO.8) INSULATED	LF	14,245.000				14,245.000	
	620-6009	ELEC CONDR (NO.6) BARE	LF	8,881.000				8,881.000	
	620-6010	ELEC CONDR (NO.6) INSULATED	LF	1,353.000				1,353.000	
	621-6008	TRAY CABLE (4 CONDR) (14 AWG)	LF	800.000				800.000	
	624-6001	GROUND BOX TY A (122311)	EA	3.000				3.000	
	624-6002	GROUND BOX TY A (122311)W/APRON	EA	11.000				11.000	
	624-6009	GROUND BOX TY D (162922)	EA	6.000				6.000	
	624-6028	REMOVE GROUND BOX	EA	6.000				6.000	
	628-6002	REMOVE ELECTRICAL SERVICES	EA	2.000				2.000	
	628-6044	ELC SRV TY A 240/480 060(NS)SS(E)PS(U)	EA	1.000				1.000	
	628-6045	ELC SRV TY A 240/480 060(NS)SS(E)SP(O)	EA	1.000				1.000	
	628-6151	ELC SRV TY D 120/240 060(NS)SS(N)PS(U)	EA	1.000				1.000	
	628-6164	ELC SRV TY D 120/240 070(NS)AL(E)PS(U)	EA	1.000				1.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF	77.000				77.000	
	636-6002	ALUMINUM SIGNS (TY G)	SF	94.500				94.500	
	636-6003	ALUMINUM SIGNS (TY O)	SF	1,834.000				1,834.000	
	644-6027	IN SM RD SN SUP&AM TYS80(1)SA(P)	EA	30.000				30.000	
	644-6030	IN SM RD SN SUP&AM TYS80(1)SA(T)	EA	51.000				51.000	
	644-6034	IN SM RD SN SUP&AM TYS80(1)SA(U-1EXT)	EA	3.000				3.000	
	644-6035	IN SM RD SN SUP&AM TYS80(1)SA(U-2EXT)	EA	3.000				3.000	
	644-6036	IN SM RD SN SUP&AM TYS80(1)SA(U-BM)	EA	2.000				2.000	
	644-6038	IN SM RD SN SUP&AM TYS80(1)SA(U-EXAL)	EA	3.000				3.000	
	644-6064	IN BRIDGE MNT CLEARANCE SGN ASSM(TY N)	EA	2.000				2.000	
	644-6075	RELOCATE SM RD SN SUP&AM(SIGN ONLY)	EA	7.000				7.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	69.000				69.000	
	647-6001	INSTALL LRSS (STRUCT STEEL)	LB	576.000				576.000	
	650-6032	INS OH SN SUP(30 FT CANT)	EA	1.000				1.000	
	650-6121	INS OH SN SUP(110 FT BRDG)(SPAN ONLY)	EA	1.000				1.000	
	650-6151	INS OH SN SUP(140 FT BRDG)(SPAN ONLY)	EA	1.000				1.000	
	650-6161	INS OH SN SUP(150 FT BRDG)(SPAN ONLY)	EA	1.000				1.000	
	650-6205	REMOVE OVERHD SIGN SUP (SIGN ONLY)	EA	8.000				8.000	
	658-6083	INSTL DEL ASSM (D-SW)SZ 1(WFLX)SRF	EA	44.000				44.000	
	662-6046	WK ZN PAV MRK REMOV (REFL) TY I-A	EA	2,855.000				2,855.000	



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0617-01-177

DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	662-6052	WK ZN PAV MRK REMOV (REFL) TY II-C-R	EA	7,002.000				7,002.000	
	662-6056	WK ZN PAV MRK REMOV (TRAF BTN) TY W	EA	34,684.000				34,684.000	
	662-6058	WK ZN PAV MRK REMOV (TRAF BTN) TY Y	EA	17,132.000				17,132.000	
	662-6073	WK ZN PAV MRK REMOV (W)12"(SLD)	LF	1,415.000				1,415.000	
	662-6075	WK ZN PAV MRK REMOV (W)24"(SLD)	LF	419.000				419.000	
	662-6080	WK ZN PAV MRK REMOV (W)(ARROW)	EA	97.000				97.000	
	662-6090	WK ZN PAV MRK REMOV (W)(WORD)	EA	64.000				64.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	6,149.000				6,149.000	
	662-6110	WK ZN PAV MRK SHT TERM (TAB)TY Y	EA	1,604.000				1,604.000	
	666-6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	2,179.000				2,179.000	
	666-6033	REFL PAV MRK TY I (W)8"(LNDP)(100MIL)	LF	1,227.000				1,227.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	11,872.000				11,872.000	
	666-6039	REFL PAV MRK TY I (W)12"(LNDP)(100MIL)	LF	2,559.000				2,559.000	
	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	5,805.000				5,805.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	492.000				492.000	
	666-6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	13,690.000				13,690.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	37,147.000				37,147.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	42,798.000				42,798.000	
	668-6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	480.000				480.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	47.000				47.000	
	668-6078	PREFAB PAV MRK TY C (W) (DBL ARROW)	EA	19.000				19.000	
	668-6080	PREFAB PAV MRK TY C (W) (UTURN ARROW)	EA	5.000				5.000	
	668-6083	PREFAB PAV MRK TY C (W) (LNDP ARROW)	EA	6.000				6.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	50.000				50.000	
	668-6091	PREFAB PAV MRK TY C (W) (18")(YLD TRI)	EA	27.000				27.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	90.000				90.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA	1,625.000				1,625.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	72,857.000				72,857.000	
	678-6005	PAV SURF PREP FOR MRK (10")	LF	480.000				480.000	
	680-6004	REMOVING TRAFFIC SIGNALS	EA	2.000				2.000	
	680-6011	INSTALL HWY TRF SIG (UPGRADE)	EA	2.000				2.000	
	682-6001	VEH SIG SEC (12")LED(GRN)	EA	14.000				14.000	
	682-6002	VEH SIG SEC (12")LED(GRN ARW)	EA	4.000				4.000	
	682-6003	VEH SIG SEC (12")LED(YEL)	EA	14.000				14.000	
	682-6004	VEH SIG SEC (12")LED(YEL ARW)	EA	4.000				4.000	
	682-6005	VEH SIG SEC (12")LED(RED)	EA	14.000				14.000	
	682-6006	VEH SIG SEC (12")LED(RED ARW)	EA	2.000				2.000	



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0617-01-177

DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	682-6050	BACKPLATE W/REFL BRDR(5 SEC)	EA	2.000				2.000	
	682-6060	BACKPLATE W/REFL BRDR(3 SEC)	EA	14.000				14.000	
	684-6030	TRF SIG CBL (TY A)(14 AWG)(4 CONDR)	LF	180.000				180.000	
	684-6033	TRF SIG CBL (TY A)(14 AWG)(7 CONDR)	LF	860.000				860.000	
	684-6035	TRF SIG CBL (TY A)(14 AWG)(9 CONDR)	LF	6,410.000				6,410.000	
	684-6080	TRF SIG CBL (TY C)(14 AWG)(2 CONDR)	LF	4,020.000				4,020.000	
	686-6039	INS TRF SIG PL AM(S)1 ARM(36')LUM	EA	1.000				1.000	
	686-6147	INS TRF SIG PL AM(S)2 ARM(40-36')LUM	EA	1.000				1.000	
	686-6219	INS TRF SIG PL AM(S)2 ARM(55-40')LUM	EA	1.000				1.000	
	687-6001	PED POLE ASSEMBLY	EA	18.000				18.000	
	780-6002	CNC CRACK REPAIR (DISCRETE)(INJECT)	LF	974.000				974.000	
	3076-6002	D-GR HMA TY-B SAC-B PG64-22	TON	35,821.000				35,821.000	
	3076-6066	TACK COAT	GAL	2,912.000				2,912.000	
	3082-6004	TBWC (MEMBRANE)	GAL	36,841.000				36,841.000	
	3082-6005	TBWC PG76-22 SAC-A TY C	TON	9,228.000				9,228.000	
	6000-6103	RAISE AND LOWER RING (HIGH MAST LIGHT)	EA	6.000				6.000	
	6000-6164	INSTALL AVIATION WARNING FIXTURE (LED)	EA	4.000				4.000	
	6000-6167	REPLACE AVIATION WARNING FIXTURE (LED)	EA	6.000				6.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4.000				4.000	
	6007-6011	FIBER OPTIC CBL (SNGLE-MODE)(12 FIBER)	LF	263.000				263.000	
	6007-6017	FIBER OPTIC CBL (SNGLE-MODE)(144 FIBER)	LF	19,718.000				19,718.000	
	6007-6023	FIBER OPTIC PATCH PANEL (12 POSITION)	EA	2.000				2.000	
	6007-6026	FIBER OPTIC CABLE ROAD MARKER	EA	20.000				20.000	
	6010-6001	CCTV FIELD EQUIPMENT (ANALOG)	EA	1.000				1.000	
	6027-6008	GROUND BOX (PREPARE)	EA	8.000				8.000	
	6064-6048	ITS POLE (55 FT)(130 MPH)	EA	1.000				1.000	
	6064-6080	ITS POLE MNT CAB (TY 2)(CONF 1)	EA	1.000				1.000	
	6156-6002	LED HI MST IL ASM (6 FIXT)(ASYM)(TY A)	EA	2.000				2.000	
	6156-6003	LED HI MST IL ASM (6 FIXT) (ASYM)(TY B)	EA	2.000				2.000	
	6156-6006	REPLC LED HI MST IL(6 FIXT)(ASYM)(TY A)	EA	6.000				6.000	
	6185-6002	TMA (STATIONARY)	DAY	534.000				534.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	425.000				425.000	
	6186-6003	ITS GND BOX(PCAST) TY 1 (243648)	EA	7.000				7.000	
	6186-6004	ITS GND BOX(PCAST) TY 1 (243648)W/APRN	EA	13.000				13.000	
	6186-6025	REMOVE ITS GROUND BOX	EA	9.000				9.000	
	6292-6001	RVDS(PRESENCE DETECTION ONLY)	EA	2.000				2.000	
	6476-6001	Remove High Mast Lighting Assembly	EA	2.000				2.000	



Estimate & Quantity Sheet

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DISTRICT Corpus Christi
HIGHWAY SH 358

COUNTY Nueces

CONTROL SECTION JOB				0617-01-177		0617-01-213		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00093933		R00013301			
COUNTY				Nueces					
HIGHWAY				SH 358					
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	7344-6001	REMOVE EXIST WATER PIPE (6")	LF			30.000		30.000	
	7344-6002	REMOVE EXIST WATER PIPE (8")	LF			6,917.000		6,917.000	
	7344-6003	REMOVE EXIST WATER PIPE (10")	LF			10.000		10.000	
	7344-6004	REMOVE WATER VALVE AND BOX	EA			20.000		20.000	
	7344-6005	REMOVE WATER METER AND VAULT	EA			1.000		1.000	
	7344-6006	REMOVING AND SALVAGING FIRE HYDRANT	EA			23.000		23.000	
	7344-6007	RMV AND DISPOSAL OF EXIST FIRE HYDRANT	EA			1.000		1.000	
	7344-6008	REMOVE EXIST WATER METER	EA			23.000		23.000	
	7344-6009	TRENCH SAFETY	LF			6,957.000		6,957.000	
	7344-6010	WATER MAIN (PVC)(C-900)(6 IN)	LF			40.000		40.000	
	7344-6011	WATER MAIN (PVC)(C-900)(8 IN)	LF			7,243.000		7,243.000	
	7344-6012	WATER MAIN (PVC)(C-900)(10 IN)	LF			10.000		10.000	
	7344-6013	FIRE HYDRANT ASSEMBLY	EA			24.000		24.000	
	7344-6014	TIE-IN (COMPLETE)(6 IN)	EA			4.000		4.000	
	7344-6015	TIE-IN (COMPLETE)(8 IN)	EA			29.000		29.000	
	7344-6016	TIE-IN (COMPLETE)(10 IN)	EA			1.000		1.000	
	7344-6017	WATER SERVICE	EA			25.000		25.000	
	7344-6018	DUCTILE IRON FITTINGS	TON			1.440		1.440	
	7344-6019	6" GATE VALVE	EA			4.000		4.000	
	7344-6020	8" GATE VALVE	EA			29.000		29.000	
	7344-6021	10" GATE VALVE	EA			1.000		1.000	
	7344-6022	REL EX METER (NEW METER BOX)(COMPL)	EA			25.000		25.000	
18		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000				1.000	
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000				1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000				1.000	

- 21. PLACEMENT AND REMOVAL OF CONSTRUCTION JOINT TAPERS OUT OF APPROVED MATERIAL WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM 502. THE TAPER SHALL BE BUILT AT A 25:1 SLOPE MINIMUM OR ALLOWED BY THE ENGINEER.
- 22. AT NO TIME WILL THE CONTRACTOR BE ALLOWED TO DETOUR TRAFFIC ONTO ANY CITY, COUNTY, OR SURROUNDING AREA ROADWAYS UNLESS PREVIOUSLY APPROVED.
- 23. ALL BRIDGE ELEMENT CONSTRUCTION, BEAM ERECTION, CONCRETE PLACEMENT, ETC. SHALL BE PERFORMED WITH ROADWAY CLOSURES UNDER THE AFFECTED AREA OR AS DIRECTED OR APPROVED IN WRITING BY THE ENGINEER.

SEQUENCE OF WORK

- 1. THIS PROJECT WILL BE CONSTRUCTED IN SEVEN (7) PHASES. BEFORE THE COMMENCEMENT OF EACH PHASE, INSTALL OR MAINTAIN ADVANCE WARNING SIGNS, TEMPORARY SIGNS AND BARRICADES AS SHOWN ON THE PLANS AND/OR AS DIRECTED/APPROVED BY THE ENGINEER. DAILY LANE CLOSURES WILL BE USED IN ACCORDANCE WITH STATE TCP STANDARDS. DROP OFF CONDITION OF GREATER THAN 2 INCHES MUST HAVE 3:1 SLOPE AT THE END OF EACH DAY.

CONSTRUCTION OF MAJOR ITEMS OF WORK SHALL BE FULLY COMPLETE IN EACH PHASE BEFORE PROCEEDING TO THE SUBSEQUENT PHASE OF WORK.
- 2. PLACE SW3P ITEMS PRIOR TO ANY WORK PERFORMED. ITEMS WILL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
- 3. PREPARING ROW/REMOVAL OF EXISTING ITEMS TO BE DONE ONLY IN AREAS WHERE WORK IS OCCURRING, AS PER THE PHASES NOTED BELOW.
- 4. PLANING, SURFACE TREATMENTS, AND OVERLAYS SHALL BE PERFORMED IN THE DIRECTION OF TRAFFIC.
- 5. BEFORE COMMENCEMENT OF EACH PHASE, PLACE THE TEMPORARY SIGN R9-9 "SIDEWALK CLOSED" IN ALL LOCATIONS WHERE AN EXISTING SIDEWALK ENDS ALONG OR ADJACENT TO SH 358 WITHIN THE LIMITS OF THE CURRENT PHASE TO WARN AND/OR PREVENT PEDESTRIANS FROM ENTERING WORKZONE. THE CONTRACTOR SHALL LIMIT THE REMOVAL AND REPLACEMENT OF SIDEWALK ALONG THE FRONTAGE RD TO NOT MORE THAN 200 LINEAR FEET AT A TIME.
- 6. BEFORE THE COMMENCEMENT OF EACH PHASE, PLACE THE TEMPORARY SIGN CW20-8T "NARROW LANES AHEAD" BEFORE ALL LOCATIONS WHERE THE OUTSIDE LANE HAS BEEN NARROWED DUE TO THE CONSTRUCTION BUFFER ZONE.
- 7. BEFORE COMMENCEMENT OF EACH PHASE, CONTRACTOR TO IDENTIFY THE LOCATIONS WITHIN THE CURRENT PHASE LIMITS WHERE EVIDENCE OF PREDOMINANT PEDESTRIAN TRAFFIC OCCURS. THE INTENT IS TO ALLOW PEDESTRIANS TO CONTINUE USE ALONG CURRENT PATHS WHILE CONSTRUCTION OCCURS ON THE OPPOSITE SIDE OF WORK ZONE. THEN ALLOW PEDESTRIAN TO USE COMPLETED SIDEWALK ONCE COMPLETE.

PHASE 1

THE INTENT OF THIS PHASE IS TO CONSTRUCT INSIDE FRONTAGE ROAD WIDENING, TEMPORARY PAVEMENT, STORM SEWER, SIGN STRUCTURES, ILLUMINATION, RESTRIPE MAINLANES, TEMPORARY MEDIAN BARRIER, FRONTAGE ROAD, RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASE EXCEPT AS NOTED IN THE TCP PLANS.

FRONTAGE RD INTERIOR WIDENING AND TEMPORARY SHOULDER WIDENING

- 1. INSTALL TEMPORARY LPCB AND PCTB, SET UP SIGNING, WZPM; AS SHOWN IN PLANS.
- 2. UTILIZE TCP (3-2)-13 TO PLACE WORK ZONE PAVEMENT MARKINGS.

- 3. UTILIZE TCP (2-6A) TO INSTALL LPCB ALONG FRONTAGE ROADS AS SHOWN.
- 4. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
- 5. SHIFT TRAFFIC AND CONSTRUCT FRONTAGE ROAD INTERIOR WIDENING AND TEMPORARY INTERIOR WIDENING SECTIONS AS SHOWN IN THE PLANS.
- 6. UTILIZE TCP (6-1A)-12 TO PLACE CTB ALONG SH 358 SHOULDERS AS SHOWN.
- 7. WIDEN INSIDE SHOULDERS OF EXISTING WB AIRLINE EXIT RAMP WITH TEMP PAVEMENT. CLOSE EXISTING WB AIRLINE EXIT RAMP TO CONSTRUCT TEMPORARY PAVEMENT. NIGHT WORK: CLOSE THE EXISTING WB AIRLINE EXIT RAMP AND DETOUR TRAFFIC TO EXIT RAMP AHEAD. UTILIZE TxDOT STANDARD TCP (6-4a).
- 8. CONSTRUCT HIGH MAST LIGHTING AS SHOWN IN THE PLANS.



TEMPORARY MEDIAN BARRIER

- 1. NIGHT WORK: INSTALL PCTB ALONG WB INSIDE SHOULDER, INSTALL WORK ZONE TRAFFIC CONTROL SIGNS, PLACE WORK ZONE PAVEMENT MARKINGS: AS SHOWN: AS SHOWN IN PLANS.
- 2. NIGHT WORK: REMOVE THE EXISTING BARRIER FOR THE EXTENT OF THE PROJECT AND RECONSTRUCT THE INSIDE SHOULDERS OF THE MAINLANES; AS SHOWN IN PLANS. EXISTING ROADWAY ILLUMINATION ALONG MEDIAN BARRIER TO BE REMOVED.
- 3. NIGHT WORK: MOVE AND RESET PCTB TO PROPOSED CENTERLINE.

PHASE 2

THE INTENT OF THIS PHASE IS TO CONSTRUCT OUTSIDE FRONTAGE ROAD WIDENING, STORM SEWER, SIGN STRUCTURES, TRAFFIC SIGNALS, CURB & GUTTER, SIDEWALK, AND DRIVEWAYS. CONTRACTOR WILL WORK IN ONE DIRECTION AT A TIME UNLESS ALLOWED BY THE ENGINEER. WORK WILL BEGIN WITH EASTBOUND FIRST, AND THEN COME BACK ON THE WESTBOUND AS DESCRIBED IN THE SEQUENCE BELOW.

PHASE 2A (SH 358 EASTBOUND):

- 1. INSTALL TEMPORARY LPCB, SET UP SIGNING, WZPM; AS SHOWN IN PLANS.
- 2. UTILIZE TCP (3-2)-13 TO PLACE WORK ZONE PAVEMENT MARKINGS.
- 3. UTILIZE TCP (2-6A) TO INSTALL LPCB ALONG FRONTAGE ROADS AS SHOWN.
- 4. SHIFT FRONTAGE RD TRAFFIC AND CONSTRUCT THE FRONTAGE RD WIDENING AREAS AS WELL AS DRAINAGE IMPROVEMENTS.
- 5. CONSTRUCT ALL SIDEWALK AND DRIVEWAYS

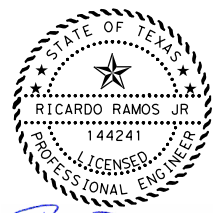

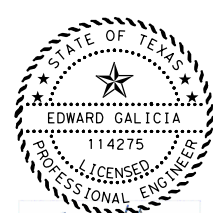
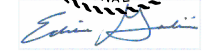


PHASE 2B (SH 358 WESTBOUND)

- 6. INSTALL TEMPORARY LPCB, SET UP SIGNING, WZPM; AS SHOWN IN PLANS.
- 7. UTILIZE TCP (3-2)-13 TO PLACE WORK ZONE PAVEMENT MARKINGS.
- 8. UTILIZE TCP (2-6A) TO INSTALL LPCB ALONG FRONTAGE ROADS AS SHOWN.
- 9. SHIFT FRONTAGE RD TRAFFIC AND CONSTRUCT THE FRONTAGE RD WIDENING AREAS AS WELL AS DRAINAGE IMPROVEMENTS.
- 10. CONSTRUCT ALL SIDEWALK AND DRIVEWAYS

APPROVAL OF WORK SEQUENCE ON BOTH SIDES SIMULTANEOUSLY (WESTBOUND AND EASTBOUND) TO BE DISCRETION OF ENGINEER.

PHASE 3

THE INTENT OF THIS PHASE IS TO CONSTRUCT INSIDE FRONTAGE ROAD WIDENING, CONSTRUCT RAMPS, STORM SEWER, SIGN STRUCTURES.

FOR ADDENDUM CHANGES			
  4/1/2024	  4/1/2024		
NO	DATE	REVISION	APPROVED
			
			
<h2 style="margin: 0;">SH 358</h2> <h3 style="margin: 0;">TRAFFIC CONTROL PLAN</h3> <h3 style="margin: 0;">SEQUENCE NARRATIVE</h3>			
1" = 100'		SHEET 2 OF 3	
DESIGNED BY	FED. RD. DIV. NO.	PROJECT NO.	HIGHWAY NO.
MBI	6	SEE TITLE SHEET	SH 358
DRAWN BY	STATE	DISTRICT	COUNTY
MBI	TEXAS	CORPUS	NUECES
CHECKED BY	CONTROL	SECTION	JOB
MBI	0617	01	177
VERIFIED BY	31		
MBI			



Revised 4/2/24

100% SUBMITTAL
 PLOT DRIVER: v8i_baker_wln_bw_pdf.pltctfg
 PENTABLE: 179687_SH358_PS&E.tdi
 SCALE: 1:100
 USER: Agron.Cr1ssey
 FILE: ..\2. TCP\358TCP-NARR-03.dgn
 DATE: 4/1/2024 TIME: 10:47:42 AM

RESTRIPE MAINLANES, FRONTAGE RD, RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASES EXCEPT AS NOTED IN THE TCP PLANS.

INSTALL CONCRETE BARRIERS (PCTB AND LPCB), TEMPORARY MARKINGS, SIGNS AND SW3P MEASURES AS PER PLAN

SH 358 - WESTBOUND

1. INSTALL SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. CONSTRUCT RAMP WB02
5. SHIFT TRAFFIC AND CONSTRUCT FRONTAGE ROAD INTERIOR WIDENING.

SH 358 - EASTBOUND

1. INSTALL SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS.
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. CLOSE NILE RD EXIT AND DETOUR TRAFFIC TO RODD FIELD EXIT, AS SHOWN IN PLANS.
5. CONSTRUCT RAMP EBO1
6. SHIFT TRAFFIC AND CONSTRUCT FRONTAGE ROAD INTERIOR WIDENING.

PHASE 4
 THE INTENT OF THIS PHASE IS TO CONSTRUCT INSIDE FRONTAGE ROAD WIDENING, CONSTRUCT RAMPS, STORM SEWER, SIGN STRUCTURES.

RESTRIPE MAINLANES, FRONTAGE RD, RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASES EXCEPT AS NOTED IN THE TCP PLANS.

INSTALL CONCRETE BARRIERS (PCTB AND LPCB), TEMPORARY MARKINGS, SIGNS AND SW3P MEASURES AS PER PLAN

SH 358 - WESTBOUND

1. SET UP SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS.
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. OPEN RAMP WB02 TO SH 358.
5. CONSTRUCT RAMP WB01
6. SHIFT TRAFFIC AND CONSTRUCT FRONTAGE ROAD INTERIOR WIDENING.

SH 358 - EASTBOUND

1. SET UP SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS.
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. OPEN RAMP EBO1 TO SH 358.
5. MAINTAIN NILE RD EXIT DETOUR, AS SHOWN IN PLANS.
6. CONSTRUCT RAMP EBO2
7. SHIFT TRAFFIC AND CONSTRUCT FRONTAGE ROAD INTERIOR WIDENING.

PHASE 5A
 THE INTENT OF THIS PHASE IS TO CONSTRUCT INSIDE FRONTAGE ROAD WIDENING, CONSTRUCT RAMPS, U-TURN, STORM SEWER, SIGN STRUCTURES, BRIDGE STRUCTURES.

RESTRIPE MAINLANES, FRONTAGE RD, RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASES EXCEPT AS NOTED IN THE TCP PLANS.

INSTALL CONCRETE BARRIERS (PCTB AND LPCB), TEMPORARY MARKINGS, SIGNS AND SW3P MEASURES AS PER PLAN

1. SET UP SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS.
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. CLOSE SH 358 WB ENTRANCE RAMP BETWEEN AIRLINE RD AND STAPLES ST AND DETOUR TRAFFIC TO WB01 ENTRANCE RAMP.
5. SHIFT TRAFFIC AND CONSTRUCT RAMP EBO3, RETAINING WALLS, AND RAMP BRIDGE STRUCTURES.
6. DURING CONSTRUCTION OF RAMP EBO3, KEEP U-TURN ACCESSIBLE AS POSSSIBLE, CLOSING ONLY AS NECESSARY FOR CONSTRUCTION ACTIVITY.
7. CONSTRUCT MAINLANE REHAB/WIDENING

1

PHASE 5B
 THE INTENT OF THIS PHASE IS TO CONSTRUCT INSIDE FRONTAGE ROAD WIDENING, CONSTRUCT RAMPS, TURNAROUND, STORM SEWER, SIGN STRUCTURES, AND BRIDGE STRUCTURES.

RESTRIPE MAINLANES, FRONTAGE RD, RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASES EXCEPT AS NOTED IN THE TCP PLANS.

INSTALL CONCRETE BARRIERS (PCTB AND LPCB), TEMPORARY MARKINGS, SIGNS AND SW3P MEASURES AS PER PLAN

1. SET UP SIGNING, WZPM, AND TEMPORARY LPCB AND PCTB AS SHOWN IN THE PLANS.
2. RESTRIPE MAINLANE AND FRONTAGE RD TRAFFIC AS SHOWN IN PLANS.
3. CONSTRUCT DRAINAGE IMPROVEMENTS AS SHOWN IN THE PLANS.
4. CLOSE SH 358 EB EXIT RAMP BETWEEN AIRLINE RD AND STAPLES ST AND DETOUR TRAFFIC TO EBO1 EXIT RAMP.
5. SHIFT TRAFFIC AND CONSTRUCT RAMP WB03, RETAINING WALLS, AND RAMP BRIDGE STRUCTURES.
6. DURING CONSTRUCTION OF RAMP WB03, KEEP U-TURN ACCESSIBLE AS POSSSIBLE, CLOSING ONLY AS NECESSARY FOR CONSTRUCTION ACTIVITY.
7. CONSTRUCT MAINLANE REHAB/WIDENING

PHASE 6
 THE INTENT OF THIS PHASE IS TO CONSTRUCT SSCB MEDIAN BARRIER AND COMPLETE REMAINING MAINLANE SHOULDER RECONSTRUCTION.

RESTRIPE MAINLANES AND RAMPS AS SHOWN ON THE PLANS. MAINTAIN ACCESS AT ALL TIMES DURING THIS PHASES EXCEPT AS NOTED IN THE TCP PLANS.


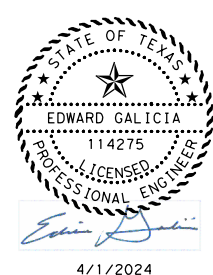


INSTALL CONCRETE BARRIERS (PCTB AND LPCB), TEMPORARY MARKINGS, SIGNS AND SW3P MEASURES AS PER PLAN

1. INSTALL, MOVE AND RESET REQUIRED PCTB ALONG WB INSIDE SHOULDER AND EB INSIDE SHOULDER FOR WORK ZONE. PLACE CHANNELIZING DEVICES AT TRANSITIONS.
2. CONSTRUCT PROPOSED SSCB MEDIAN BARRIER FROM STA 277+54.41 TO 370+00.
3. REMOVE PCTB AND CHANNELIZING DEVICES, STRIPE THE MAINLANE AND OPEN TRAFFIC TO PERMANENT DRIVING PATH.

PHASE 7
 THE INTENT OF THIS PHASE IS TO CONSTRUCT THE FINAL SURFACE ON THE FRONTAGE RD, RAMPS, AND MAINLANES.

1. USING APPLICABLE TCP STANDARDS AND DURING OFF PEAK HOURS CLOSE ONE LANE AT A TIME TO ACCOMPLISH FRONTAGE RD, AND RAMP MILLING AND OVERLAY.
2. USING STANDARD TCP AND DURING OFF-PEAK TRAFFIC HOURS, PLACE FINAL PAVEMENT MARKINGS ON FRONTAGE RD, AND RAMPS.
3. NIGHT-WORK: COMPLETE MILLING AND FINAL SURFACE OPERATIONS OF THE MAINLANE USING APPLICABLE TCP STANDARDS.
4. INSTALL FINAL STRIPING, RAISED PAVEMENT MARKERS, AND FINAL SIGNAGE.
5. FINAL CLEAN-UP.

1 Revised 4/2/24

FOR ADDENDUM CHANGES	
 4/1/2024	 4/1/2024
	<small>17721 Rogers Ranch Parkway Suite 250 San Antonio, TX 78229 TBPE Registration No. 2677</small>
	
<h2 style="margin: 0;">SH 358</h2> <h3 style="margin: 0;">TRAFFIC CONTROL PLAN SEQUENCE NARRATIVE</h3>	
1" = 100' SHEET 3 OF 3	
DESIGNED BY	FED. RD. DIV. NO.
DRAWN BY	PROJECT NO.
CHECKED BY	HIGHWAY NO.
VERIFIED BY	SHEET NO.
MBI	6
MBI	SEE TITLE SHEET
MBI	SH 358
MBI	STATE DISTRICT COUNTY SHEET NO.
MBI	TEXAS CORPUS NUECES
MBI	CONTROL SECTION JOB
MBI	0617 01 177
32	

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 this standard to other formats or for incorrect results or damages resulting from its use.

PLAN SHEET NUMBER	LOCATION	STA	TEST LEVEL	DIRECTION OF TRAFFIC (UNI/BI)	FOUNDATION PAD		BACKUP SUPPORT			AVAILABLE SITE LENGTH	CRASH CUSHION									
					PROPOSED MATERIAL	PROPOSED THICKNESS	DESCRIPTION	WIDTH	HEIGHT		INSTALL	REMOVE	MOVE / RESET		L	L	R	R	S	S
													MOVE/RESET	FROM LOC. #	N	W	N	W	N	W
2 OF 9	EB MAINLANE SHOULDER	286+65.37	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
3 OF 9	EB MAINLANE SHOULDER	294+06.25	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
4 OF 9	EB MAINLANE SHOULDER	310+72.22	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
5 OF 9	EB MAINLANE SHOULDER	322+13.66	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
7 OF 9	EB MAINLANE SHOULDER	343+97.98	TL-3	UNI	CONCRETE	6"		T223	1'-0"	2'-8"	1				X					
2 OF 8	EB ENTRANCE RAMP	RE FREB01 47+90.82	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
5 OF 8	EB FRONTAGE SHOULDER	RE FREB01 74+79.28	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
7 OF 8	EB ENTRANCE RAMP	RE FREB02 96+43.63	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
8 OF 8	EB ENTRANCE RAMP	RE FREB02 98+40.12	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
2 OF 9	WB MAINLANE SHOULDER	291+71.74	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
3 OF 9	WB MAINLANE SHOULDER	301+88.00	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
5 OF 9	WB MAINLANE SHOULDER	319+69.70	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
5 OF 9	WB MAINLANE SHOULDER	326+67.26	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
6 OF 9	WB EXIT RAMP GORE	328+89.99	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1					X				
3 of 10	WB EXIT RAMP	RE FRWB 45+55.21	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
6 of 10	WB EXIT RAMP	RE FRWB 83+54.24	TL-3	UNI	CONCRETE	6"		SSTR	1'-2.5"	3'-0"	1				X					
1 of 1	FRWB AIRLINE SLIP LANE	RE AIRLINE SLIPLANE 1+04.57	TL-3	UNI	CONCRETE	6"		C223	1'-0"	2'-8"	1				X					
TOTALS										17										

LEGEND:
 L=LOW MAINTENANCE
 R=REUSABLE
 S=SACRIFICIAL
 N=NARROW
 W=WIDE

FOR DEFINITIONS SEE THE "CRASH CUSHION CATEGORIZATION CHART.PDF" AT THE DESIGN DIVISION (ROADWAY STANDARDS) WEBSITE. USE QUICK LINKS TO ACCESS ATTENUATORS / CRASH CUSHIONS SECTION.
<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/standard/rdwylse.htm>

CRASH CUSHION SUMMARY SHEET

FILE: CCSS.dgn	DN: TxDOT	CK:	CK:
© TxDOT	CONT	SECT	JOB
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	DIST	COUNTY	
	CRP	NUECES	
	FEDERAL AID PROJECT		SHEET NO.
			249

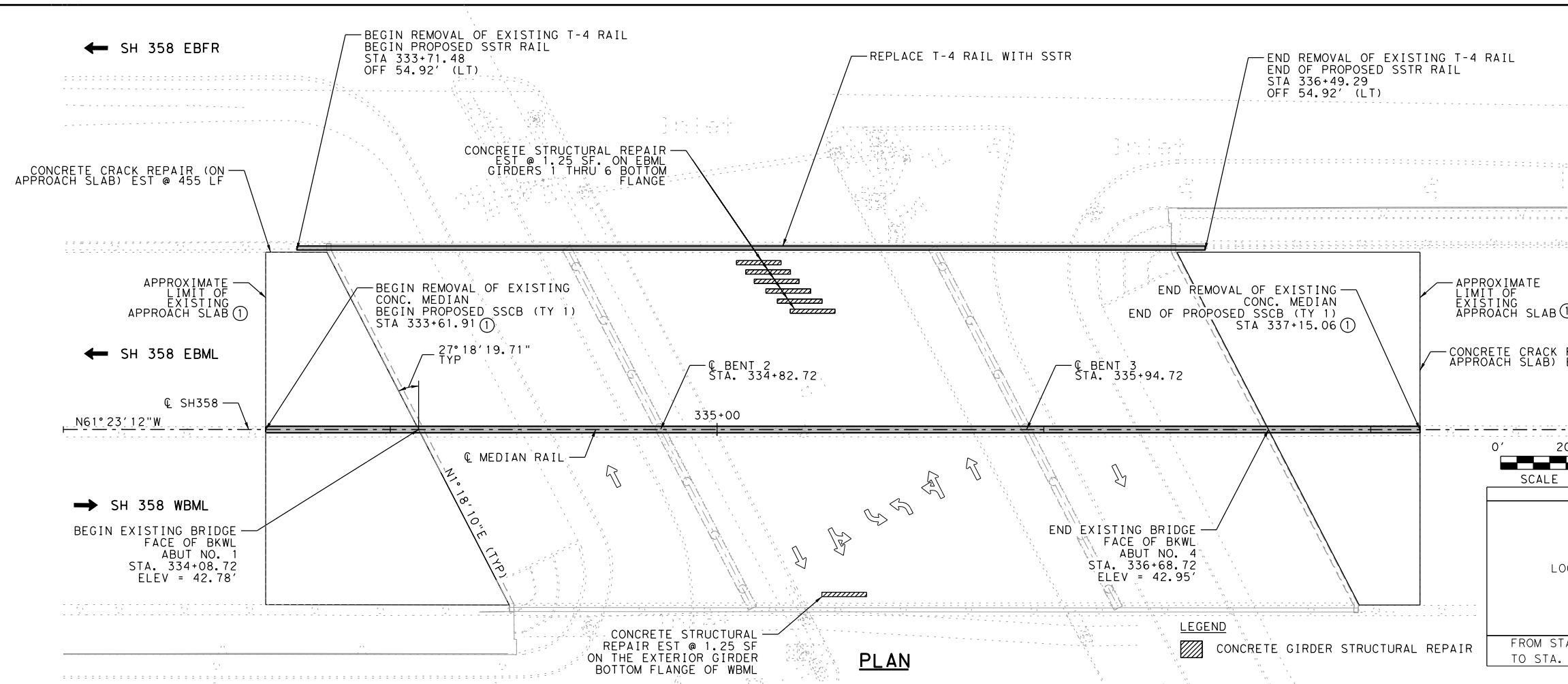
1 Revised 4/2/24

100% SUBMITTAL

PLOT DRIVER: v8i_baker_wln_bw_pdf.plt
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USER: Acron.Cr1ssey

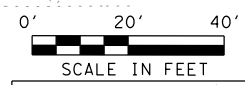
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DATE: 12/14/2023 TIME: 16:27 PM



PLAN

GENERAL NOTES:

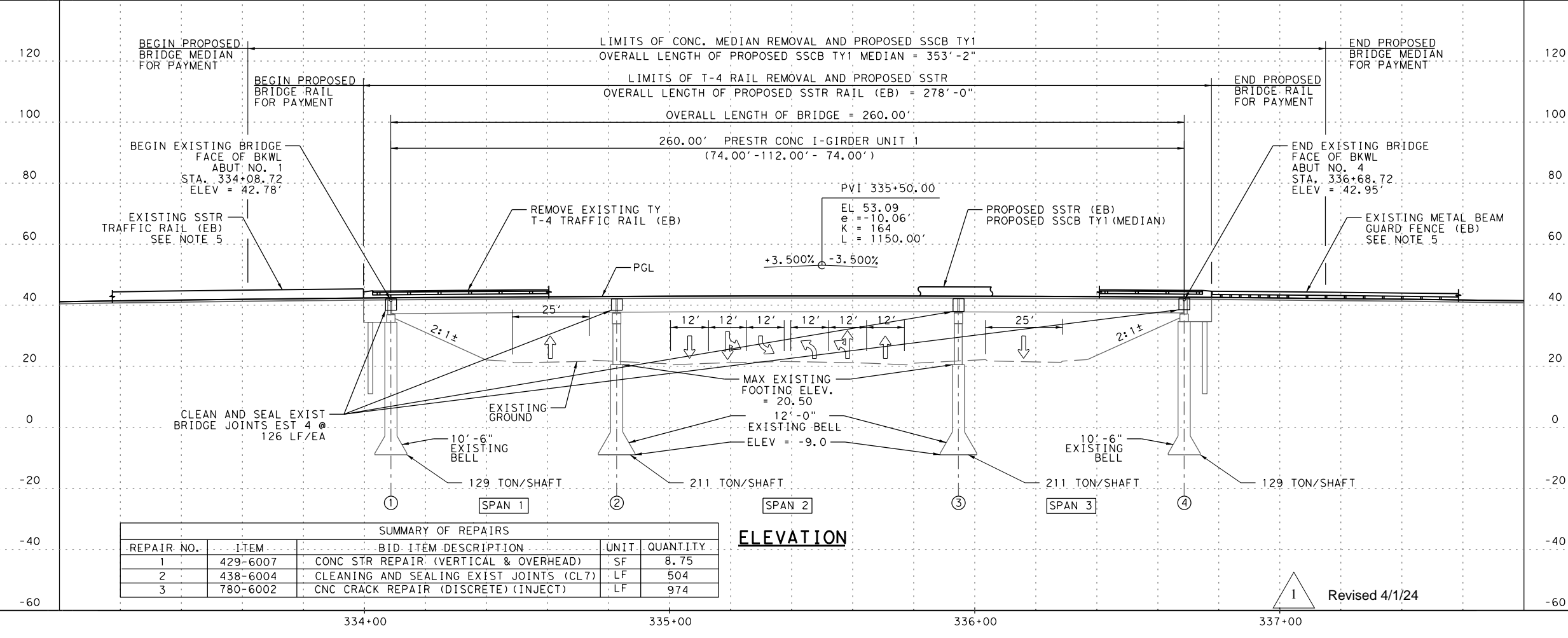
- DESIGNED ACCORDING TO AASHTO 2020 LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION (HL 93 LOADING).
- SSTR AND SSCB TY1 ARE CAST IN PLACE.
- EXISTING BRIDGE INFORMATION OBTAINED FROM AS-BUILTS AND SURVEY.
- SEE AS-BUILTS FOR ADDITIONAL INFORMATION ON THE EXISTING BRIDGE.
- SEE ROADWAY PLANS FOR RAIL REMOVAL AND REPLACEMENT OUTSIDE THE LIMITS OF THE EXISTING RAIL REMOVAL ON THE BRIDGE.
- ELEVATION VIEW SHOWS EXISTING AND PROPOSED RAILS FOR EB AND MEDIAN. WB RAIL NOT SHOWN FOR CLARITY.
- SEE SSTR STANDARD AND RAIL RETROFIT DETAILS FOR ADDITIONAL INFORMATION.
- SEE SSCB-16 (TYPE-1) STANDARD AND MEDIAN RETROFIT DETAILS FOR ADDITIONAL INFORMATION.
- LAYOUT, STATIONS, AND ELEVATIONS SHOWN ARE BASED ON AS-BUILT PLANS. COPIES OF AVAILABLE PORTIONS OF AS-BUILT PLANS MAY BE PROVIDED UPON REQUEST.
- REPAIR LOCATIONS AND QUANTITIES ARE BASED ON CONDITION SURVEY (07/2022). CURRENT CONDITIONS MAY VARY. FIELD VERIFY LOCATIONS AND EXTENT OF REPAIRS IN THE PRESENCE OF THE AREA ENGINEER OR DESIGNEE PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL FIELD VERIFY QUANTITIES.



① CONTRACTOR TO FIELD VERIFY

LOCATION	SUMMARY OF BRIDGE RAIL RETROFIT ITEMS			
	451 6024	496 6099	104 6023	514 6001
	RETROFIT RAIL (TY SSTR)	REMOVE STR (RAIL)	REMOVING CONC (CTB)	PERM CTB (SGL SLOPE) (TY 1) (42)
	LF	LF	LF	LF
FROM STA. 333+00.00 TO STA. 338+00.00	278	278	354	354

HL93 LOADING



ELEVATION

REPAIR NO.	ITEM	BID ITEM DESCRIPTION	UNIT	QUANTITY
1	429-6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	8.75
2	438-6004	CLEANING AND SEALING EXIST JOINTS (CL7)	LF	504
3	780-6002	CNC CRACK REPAIR (DISCRETE) (INJECT)	LF	974



12/14/2023
F-2677

NO	DATE	REVISION	APPROVED

Michael Baker INTERNATIONAL
17721 Rogers Ranch Parkway
Suite 250
San Antonio, TX 78229
TBPB Registration No. 2677



SH 358
AIRLINE ROAD OVERPASS
RAIL REPLACEMENT & BRIDGE REPAIR EXHIBIT

PLAN & PROFILE
NBI: 16-178-0-0617-01-019
SHEET 1 OF 1

DESIGNED BY	FED. RD. DIV. NO.	PROJECT NO.	HIGHWAY NO.
CC	6	SEE TITLE SHEET	SH 358
DRAWN BY	STATE	DISTRICT	COUNTY
CC	TEXAS	CORPUS	NUECES
CHECKED BY	CONTROL	SECTION	JOB
AH	0617	01	177
VERIFIED BY	SHEET NO.		
DG	451		

1 Revised 4/1/24