SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: C 17-2-78 CONTROL: 0017-02-078

COUNTY: BEXAR

LETTING: 03/07/2023

REFERENCE NO: 0222

PROPOSAL ADDENDUMS

X PROPOSAL COVER

X BID INSERTS (SH. NO.: ALL)

X GENERAL NOTES (SH. NO.: ALL)

_ SPEC LIST (SH. NO.:)

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

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

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:
734-6002, 738-6003, 662-6109, 662-6110, 506-6040, 506-6043
354-6048, 542-6004, 432-6045, 540-6001, 3076-6043, 3080-6007
3084-6001, 3085-6001, 502-6001

ADDED THE FOLLOWING BID ITEMS:
354-6096, 354-6106, 351-6004, 644-6068, 658-6013, 658-6024
658-6027, 666-6228, 666-6018, 666-6042, 677-6004, 677-6005
216-6001

DELETED THE FOLLOWING BID ITEMS:
354-6064, 351-6007, 644-6070

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

SHEET A - REVISED BASIS OF ESTIMATE

*****PLAN SHEETS*****
DESCRIPTION OF ABOVE CHANGES (CONTINUED)
(INCLUDING PLANS SHEET CHANGES)

PLAN SHEET 8,8A - 8F- REVISED GENERAL NOTES DUE TO SHIFT IN TEXT

PLAN SHEETS 9,9A & 9B - REVISED QUANTITIES AND BID ITEMS

PLAN SHEET 10 - REVISED QUANTITIES

PLAN SHEET 12 - REVISED QUANTITIES, REMOVED ITEM 354-6064 AND ADDED ITEMS 354-6096 & 354-6106

PLAN SHEET 13 - REVISED QUANTITIES, REMOVED ITEM 351-6007, ADDED ITEMS 216-6001 & 351-6004

PLAN SHEET 14 - REMOVED ITEM 644-6070, ADDED ITEMS 644-6068, 658-6013, 658-6024, 658-6027, 666-6018, 666-6042, 666-6228, 677-6004 & 677-6005

PLAN SHEETS 53 THRU 69 - REVISED PLAN SHEET QUANTITY TABLES WITH UPDATED BID ITEMS AND QUANTITIES

PLAN SHEET 70 - REVISED MILLING DETAILS AT BRIDGES

PLAN SHEET 76 - REVISED BASE REPAIR DETAIL

PLAN SHEETS 101 THRU 117 - REVISED PLAN SHEET QUANTITY TABLES WITH UPDATED BID ITEMS AND QUANTITIES

**********GENERAL NOTES**********
2014 Specification Book

========== **Basis of Estimate** ==========

Item	Description	Rate	Area	Quantity
168-6001	Vegetative Watering	15.6 GAL/SY	326 SY	5 MG
3076-6066	Asph (Tack Coat)	0.2 GAL/SY	1,530 SY	306 GAL
3084-6001	Asph (Bonding)	0.12 GAL/SY	349,145 SY	41,897 GAL
3085-6001	Asph (Underseal)	0.2 GAL/SY	336,833 SY	67,367 GAL

========== **Asphalt Concrete Pavement** ==========

Item	Type	Location	Depth	Rate	Area	Quantity
3076-6003	HMA TY-B	RP	12”	115 LB/SY-IN	510 SY	352 Tons
3076-6043	HMA TY-D*	ML, RP	1.25”	115 LB/SY-IN	336,833 SY	24,210 Tons
*HMA TY-D (Level-Up) includes additional 0.25” depth for additional quantity.						
3080-6007	SMA TY-D	ML, RP	2”	115 LB/SY-IN	349,145 SY	40,152 Tons

--General--

Contact the Engineer or the City when construction operations are within 400 feet of a signalized intersection to determine/verify the location of loop detectors, conduit, ground-boxes, etc. Repair or replace any signal equipment damaged by construction operations. The method of repair or replacement shall be pre-approved and inspected. Depending on the type and extent of the damage, the Engineer reserves the right to perform the repair or replacement work and the Contractor will be billed for this work.

City of San Antonio: (210) 207-8642

Any materials removed and not reused and determined to be salvageable shall be stored within the project limits at an approved location or delivered undamaged to the storage yard as directed. Deface traffic signs so that they will not reappear in public as signs.

Any sign panels that are adjusted or removed and replaced, shall be done the same workday unless otherwise approved. This work shall be considered subsidiary to Item 502.

Notify the Engineer at least two weeks prior to a proposed traffic pattern change(s) that will require a revision to traffic signals.

Locate and reference all manholes and valves within the construction area with station and offset or GPS. Each manhole and valve shall be identified by its owner (SAWS, CPS, etc.). No roadwork will begin until this list has been submitted. All valves and manhole covers have to be

accessible at all times, therefore; temp. CTB, material stockpiles, etc. cannot be placed over these valves or covers.

The Contractor has the option to adjust or construct all manholes and valves to final pavement elevations prior to the final mat of HMA or after final mat of HMA. If between the final elevation adjustment and the final mat of HMA, the manholes and valves are going to be exposed to traffic, place temporary asphalt around the manhole and valve to provide a +/- 50:1 taper. The cost of elevation adjustment and the concrete apron around the manhole and valve will be part of the manhole and valve work. The asphalt tapers are part of the HMA work.

Hurricane Evacuation

Hurricane Season is from June 1 thru November 30. As the closest metropolitan city inland from the Texas Coast, the City of San Antonio is a major shelter destination during mandatory hurricane evacuations. As such, planned work zone lane or road closures may be restricted and/or suspended during mandatory hurricane evacuation operations. The District will coordinate these restrictions at a minimum H-120 from any projected impact to the Texas Coast.

No time charges will be made if the Engineer determines that work on the project was impacted by the hurricane.

The Engineer may order changes in the Traffic Control Plan to accommodate evacuation traffic, and may suspend the work, all or in part, to ensure timely completion of this work. All work to implement changes in the Traffic Control Plan will be paid through existing bid prices or through Item 9.5, Force Account. However, the Department will not entertain any request for delay damages, loss of efficiency that may be attributed to the restriction or suspension of road or lane closures, or to changes in the Traffic Control Plan.

If a sanitary sewer overflow (SSO) occurs:

1. Attempt to eliminate the source of the SSO.
2. Contain sewage from the SSO to the extent possible to prevent contamination of waterways.
3. Call SAWS at (210) 233-2015.

Submit locate request for SAWS water and sewer to TXDOTlocates@saws.org.

In accordance with the Underground Facility Damage Prevention Act (One Call Bill) the phone number for a utility locator is 811. It is the Contractor's responsibility to plan for utility locators as needed.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way. Call or email the TxDOT offices listed below for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the

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appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above-mentioned utilities when working without having the utilities located prior to excavation.

For signal and ITS locates call TransGuide at 210-731-5136 or email sat_its_locates@txdot.gov for ITS locates and signal.request@txdot.gov for signal locates.

Contractor questions on this project are to be addressed to the following individual(s):

Carlos Arcila, P.E. (Area Engineer),	Carlos.Arcila@txdot.gov	210-536-9646
Danny Gallegos, P.E. (Assistant Area Engineer),	Danny.Gallegos@txdot.gov	210-536-9646

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address: https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

The Contractor must measure the vertical clearance at each structure after the final surface of the roadway is completed and provide the vertical clearance measurement to the Engineer.

--Item 5--
Taper ACP placed at curb inlets, traffic inlets and slotted drains.

A horizontal boom or equivalent equipment is required for construction in the vicinity of the CPS Energy electric lines to provide vertical clearance of equipment during construction. Contact CPS Energy Utility Coordination Group sixteen (16) week in anticipation of pole bracing. The estimated duration for pole bracing is 6 to 10 weeks (or longer if temporary construction easements are required) after invoice is paid. For de-energizing or sleeving of the overhead electrical lines depicted on the plans, please contact CPS Energy Utility Coordination Group sixteen (16) week in anticipation of needed de-energization. The estimated duration for de-energizing is approximately 4 to 6 weeks (after invoice is paid) but could vary on system scenario and back feed requirements. De-energizing may not be possible in all instances or may be restricted during specific periods of time due to load demand. Contractor will be reimbursed for the invoice cost for pole bracing and/or de-energizing or sleeving through force account.

Prevention of Migratory Bird Nesting

It is anticipated that migratory birds, a protected group of species, may try to nest on bridges, culverts, vegetation, or gravel substrate, at any time of the year. The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season. Otherwise, nests containing migratory birds must be avoided and no work will be performed in the nesting areas until the young birds have fledged.

Structures

Bridge and culvert construction operations cannot begin until swallow nesting prevention is implemented, until after October 1 if it's determined that swallow nesting is actively occurring, or until it's determined swallow nests have been abandoned. If the State installed nesting deterrent on the bridges and culverts, maintain the existing nesting deterrent to prevent swallow nesting until October 1 or completion of the bridge and culvert work, whichever occurs earlier. If new nests are built and occupied after the beginning of the work, do not perform work that can interfere with or discourage swallows from returning to their nests. Prevention of swallow nesting can be performed by one of the following methods:

1. By February 15 begin the removal of any existing mud nests and all other mud placed by swallows for the construction of nests on any portion of the bridge and culverts. The Engineer will inspect the bridges and culverts for nest building activity. If swallows begin nest building, scrape, or wash down all nest sites. Perform these activities daily unless the Engineer determines the need to do this work more frequently. Remove nests and mud through October 1 or until bridge and culvert construction operations are completed.

2. By February 15 place a nesting deterrent (which prevents access to the bridge and culvert by swallows) on the entire bridge (except deck and railing) and culverts. This work is subsidiary to the various bid items.

No extension of time or compensation payment will be granted for a delay or suspension of work caused by nesting swallows.

Excavation within 5 feet of an existing CPS Energy pole will require pole bracing. Contact CPS Energy utility coordination to request pole bracing (Customer Engineering 210-353-4050). The estimated duration for the pole bracing process is approximately 10 to 15 weeks.

--Item 6--
Show the stockpile lot and/or sub lot numbers on all tickets for all materials.

Steel Wrapped or Asbestos Utility Lines:

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Existing steel wrapped natural gas and/or asbestos cement (AC) water lines that will no longer be in service are usually abandoned in place (AIP). However, if any of these lines have to be removed for whatever reason (in the way of other construction, to make tie-ins, etc.), comply with Item 6.

If removal of AC water lines is included in the construction contract, then notify the Engineer of proposed dates of removal of the AC water lines in accordance to Item 6. Excavate to the top of the AC water line to allow a separate contractor hired by the State to remove the AC water line. The excavation for the AC water line removal is subsidiary to the work that created the need for the removal (excavation for structures, roadway, a new line, tie-ins, etc.).

--Item 7--
The total disturbed area within the project is anticipated at less than one (1) acre. Due to this type of construction, the project qualifies for exclusion under the Construction General Permit (CGP) issued by the Texas Commission on Environmental Quality (TCEQ). However, should the sum of the Engineer's anticipated disturbances and the Contractor's (On ROW and off ROW) PSL's equal or exceed the one (1) acre threshold; both TxDOT and the Contractor have project responsibilities under the CGP that reverts to non-exclusion status. Obtain approval for all non-depicted areas of disturbance that increases the initial soil and vegetation disturbed area estimates before work starts at these locations.

Notify the Engineer of the disturbed acreage within one (1) mile of the project limits. Obtain authorization from the TCEQ for Contractor PSL's for construction support activities on or off ROW.

Roadway closures during the following key dates and/or special event are prohibited.
See the general notes under Item 502 for these dates.

--Item 8--
Working days will be computed and charged in accordance with Article 8.3.1.4: Standard work week.

A Special Provision to Item 8 for a delayed authorized date to begin work has been included in the contract. The reason for including the Special Provision is for material processing or contractor mobilization.

Create and maintain a Critical Path Method (CPM) schedule.

The CPM schedule shall be created and maintained using software fully compatible with Primavera Project Planner version P6 Professional R15.2 .

A lane closure assessment fee will be assessed as per the "Lane Closure Assessment Fee Table" in the plans.

The road-user cost liquidated damages shall be $10,000 per day.

--Item 9--
When approved, provide uniformed, off-duty law enforcement officers with marked vehicles during work that requires a lane closure. The officer in marked vehicles shall be located as approved to monitor or direct traffic during the closure. The method used to direct traffic at signalized intersections shall be as approved. Additional officers and vehicles may be provided when approved or directed.

Complete the daily tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

All law enforcement personnel used in Work Zone Traffic Control shall be trained for performing duties in work zones and are required to take "Safe and Effective Use of Law Enforcement Personnel in Work Zones" (Course #133119) which can be found online at the following site: www.nhi.fhwa.dot.gov

Certificates of completion should be available to all who finish the course. These should be kept by the officers to substantiate completion when reporting to the work site.

Minimums, scheduling fees, etc. will not be paid; TxDOT will consider paying cancellation fees on a case-by-case basis.

Repair existing cable barrier system type NU-CABLE (TL-3) and proposed cable barrier system when directed by the Engineer. This work will be paid by force account method.

--Item 302--
Previously tested aggregates found to contain excessive quantities of dust (more than 0.5 percent passing the No. 40 sieve) during precoating, stockpiling or hauling operations, may be rejected. Use Test Method Tex-200-F, Part I for testing.

Precoated Aggregate Type PE shall consist of crushed slag, crushed stone or natural limestone rock asphalt.

--Item 305--
All reclaimable asphalt pavement (RAP) material will be retained by the Contractor.

--Item 316--
Asphalt season will be year-round but meet temperature limitations specified in the standard specifications for Item 316.

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Ensure that the asphalt for precoating the aggregate and the asphalt used for the surface treatment will not result in a reaction that may adversely affect the bonding of the aggregate and asphalt during the surface treatment operation.

Do not add bag house fines in the production of precoated material.

Clean all concrete curbs, islands, medians, etc. that get coated with asphalt.

--Item 320--
Construct all longitudinal ACP joints adjacent to a travel lane with a joint maker device that will create a 3:1 to 6:1 taper. For placement of 2 inches or more, the device shall provide a maximum ½ inch vertical edge. Taper outside edges (next to the grass) or backfill (shoulder-up) the same day.

Provide a material transfer device capable of providing a continuous flow of material to the paver. The material transfer device will consist of a windrow elevator or better.

When placing Item 346 mixtures, use a self-propelled wheel mounted MTV capable of receiving mix from the haul trucks, separate from the paver. It shall have a minimum storage capacity of approximately 25 tons. It shall be equipped with a pivoting discharge conveyor and shall completely and thoroughly remix the material prior to placement. The effectiveness of the MTV's remixing ability is subject to the approval of the Engineer. In addition, the paver shall have a surge storage insert with a minimum capacity of 20 tons.

--Item 354--
Retain planed material.

Take precaution to avoid damage to existing bridge decks and armor joints. Repair any damage to the bridge decks and/or armor joints as approved. This work will not be paid directly but will be performed at the Contractor's expense.

--Item 421--
Use an automated ticket that contains the same information as shown in the standard specification. Submit the ticket for approval prior to use. The concrete producer will contact the District Laboratory or the Engineer's Office (outside the San Antonio area) to inform TxDOT of scheduled structural concrete batching. The Engineer may suspend concrete operations if ticket information is incomplete/incorrect.

Entrained air is allowed for Class P and Class HES concrete only. Air content testing is waived f or all classes of concrete.

The curing facilities and strength testing equipment is not required for this project.

Poly-fiber reinforced concrete may be used as an option, with the approval by the Engineer, for riprap, sidewalk, curb/gutter, and mow strip. Use a TxDOT approved manufacturer or producer for the poly-fiber. The poly-fibers shall be combined with the concrete in proportions as recommended by the manufacturer. A concrete mix design must be approved by the Engineer.

--Item 500--
"Materials on Hand" payments will not be considered in determining percentages for mobilization payments.

--Item 502--
General

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee available to respond on the project for emergencies and for taking corrective measures within 2 hours or within a reasonable time frame as specified by the Engineer.

Treat the pavement drop-offs as shown in the TCP.

Avoid placing stockpiles, equipment, and other construction materials within the roadway's horizontal clear zone or at any location that will constitute a hazard and will endanger traffic. If a stockpile is placed within the clear zone, address in accordance with the TMUTCD.

If Nighttime work is required and work is not behind positive barrier then full Class 3 reflective gear is required to be worn by all workers, hard hat halos are required to be worn by the flaggers at flagging stations, TY III barricades are required to be spaced at 500 ft, and a mandatory night work meeting is required.

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.

Mounting and moving the mailbox as needed for the various construction phases is subsidiary to Item 502.

Access to adjoining property must be maintained at all times.

Barricades, Signs, and Traffic Control Devices

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When advanced warning flashing arrow panels and/or changeable message sign is specified, have one standby unit in good condition at the job site. Standby time shall be considered subsidiary to the bid item.

After written notification, the time frame is provided on the Form 599 to provide properly maintained signs and barricades before considered in non-compliance with this item.

Moving an existing sign to a temporary location is subsidiary to Item 502. Installations with permanent supports at permanent locations will be paid for under the applicable bid item(s).

Cover permanent signs if not used. This is subsidiary to Item 502.

Lane and Ramp Closures and Detours

Notify the Engineer in writing 10 business days in advance of any temporary or permanent lane, ramp, connector, etc. closures/detours, restrictions to lane widths, alterations to vertical clearances, or modifications to radii. Any other modifications to the roadway that may adversely affect the mobility of oversized/overweight trucks also require 10 business days advance written notice to the Engineer. At least one lane must always remain open.

For closures not listed in the TCP; the lane closures are limited to between the hours of 9:00 PM to 5:00 AM, and at least one lane must remain open at all times.

At no time shall two consecutive intersecting roadways be closed at one time during construction.

At no time shall two consecutive ramps be closed at one time during construction or overlay operations.

Unless otherwise noted in the plans and/or as directed by the Engineer, daily lane closures shall be limited according to the following restrictions:

Nighttime: 9:00 PM to 5:00 AM
(With uniformed off duty law enforcement officers)

Weekend closures when approved by the Engineer: 9:00 PM to 5:00 AM.

No lane closures will be permitted for the following dates and/or special events:
Between December 15 and January 1
Fiesta Week and Sales Tax Holidays (Bexar County Only)
Wednesday before Thanksgiving thru the Sunday after Thanksgiving
Saturday and Sunday before Memorial Day and Labor Day
Saturday or Sunday when July 4 falls on a Friday or Monday

Election days (Bexar County Only)
During major events at the AT&T Center (Spurs home games, Rodeo, concerts, etc.)
Alamodome, and/or Convention Center (Bexar County Only)

Traffic Signals

There are traffic signals at the intersection of IH 35 Frontage Roads at LP 1604. Always keep the signals in operation except when necessary for specific installation operations, including any modifications to existing signal heads to always maintain clear visibility. Adjustment of any signal head will be subsidiary to Item 502. When it is necessary for a signal to be turned off, or when left-turn lanes are closed, hire off duty police officers to control the traffic until the signals are back in satisfactory condition.

Moving or adjustment of traffic signal heads, VIVDS, and radar detection for the purpose of alignment with the shifting of lanes in conjunction with the traffic control plan will be subsidiary to various bid items.

Coordinate with the appropriate entity (City of San Antonio, City of New Braunfels, etc.) or TxDOT when left-turn lanes are closed and/or for signal timing revisions as necessary.

Hauling

The use of rubber-tired equipment will be required for moving dirt or other materials along or across pavement surfaces. Where the contractor desires to move any equipment not licensed for operation on public highways, on or across pavement, they shall protect the pavement from damage as directed/approved by the Engineer.

Throughout construction operations, the Contractor will be required to conduct their hauling operations in a manner such that vehicles will not haul over previously recompacted subgrade or compacted base material, except in short sections for dumping manipulations.

The Contractor shall keep the roadway clean and free of dirt or other materials during hauling operations. If the Contractor does not maintain a clean roadway, they shall cease all construction operations, when directed by the Engineer, to clean the roadway to the satisfaction of the Engineer.

--Item 506--
An Inspector will perform a regularly scheduled SWP3 inspection every 7 calendar days.

Failure to address items noted on the SW3P inspection report within two report cycles may result in the Department stopping all construction operations, exclusive of time charges, or withholding that month's estimate until the SW3P deficiencies are corrected unless the Engineer determines that the area is too wet to correct SW3P deficiencies.

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Failure to correctly maintain daily monitoring reports and submitting to TxDOT on a daily/weekly basis may result in the monthly estimate being withheld.

--Item 533--
Use Option 4 and a width of 16 inches for Edgeline Continuous Milled Rumble Strips as shown on the RS standard sheets for edgelines.

--Item 540--
Guard fence posts placed in proposed and/or existing areas of riprap, sidewalks or other concrete shall have an 18 inch +/- (square or round) leave-out in the concrete as shown in the state standard for MBGF Mow Strip. After the posts are installed, fill the leave-outs with a Grout mixture as shown in the state standard for MBGF Mow Strip.

When connecting a Thrie-Beam to a concrete wingwall, bridge rail, CTB, etc., drill the holes for bolt placement using rotary or core type equipment. Use a core type drill when reinforcing steel is encountered. Do not use percussion or impact drilling. Repair damage to the concrete and spalls exceeding ½" from the edge of the hole.

--Item 542--
Salvage all undamaged/acceptable radius guardrail and deliver to the TxDOT maintenance section yard.

--Item 585--
Use Surface Test Type B, pay adjustment schedule 2 to evaluate ride quality of travel lanes.

--Item 644--
The wedge anchor system shown on State Standard Sheet SMD (TWT) is not allowed.

Triangular Slipbase Systems with set screws are not allowed.

--Item 666--
Use TY II markings (vs. an acrylic or epoxy) on asphalt surfaces as the sealer for the TY I markings, unless otherwise approved by the Engineer.

--Item 672--
Place all adhesive material directly from the heated dispenser to the pavement. Do not use portable or non-heated containers. Use adhesive of sufficient thickness so that when the marker is pressed into the adhesive, 1/8" or more adhesive will remain under 100% of the marker. The adhesive should extend not less than 1/2" but not more than 1 1/2" beyond the perimeter of the marker.

--Item 677--
Obtain approval before using the mechanical method for the elimination of existing thermoplastic pavement markings.

--Item 734--
During hurricane season (June-October), special attention should be given to remove and dispose of litter and debris from the right of way.

--Item 735--
During hurricane season (June-October), special attention should be given to keep center medians, mainlanes, HOV lanes, shoulders, frontage roads, entrance and exit ramps, and direct connector ramps clear of debris.

--Item 738--
During hurricane season (June-October), special attention should be given to keep center medians, mainlanes, HOV lanes, shoulders, frontage roads, entrance and exit ramps, and/or direct connector ramps clear of debris.

--Item 3076, 3077, 3079, 3080, 3081, & 3082 --

1. Table 10 in Item 3076 and Table 11in Item 3077, Hamburg Wheel Test Requirements tested in accordance with Tex-242-F are changed for PG 64-22 or lower and PG 70-22. Minimum number of passes at 12.55 mm Rut Depth, Tested at 50 degrees C will be 5,000 and 10,000 respectively.

2. Submit a copy of the Tex 233-F production charts on a weekly basis. At the end of the ACP work, provide all originals.

3. Crushing of aggregate for hot mix and immediate use for production of the mix is not allowed. Stockpile the aggregate until enough material is available for five days of production unless prior approval is provided

4. Hold a pre-paving meeting one month prior to the placement of the hot mix. The date and time of pre-paving meeting should be coordinated with the Engineer prior to scheduling.

5. Do not use diesel or solvents as asphalt release agents in production, transportation, or construction. A list of approved asphalt release agents is available from the District Laboratory.

6. No more than one hot mix lot will be open for any specific type of hot mix, unless authorized. After a lot is open and the Contractor gets approval to change plants, the previous lot will be closed, and a new lot will be opened. The numbering for the lots produced at the new plant will start with No. 1. If allowed to switch back to the original or previous plant, the next lot from that plant will resume numbering sequentially from the last lot produced by that plant.

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County: Bexar

Highway: IH 35

--Item 3084 & 3085 --
The minimum application rates are listed in Table UC. The Engineer may adjust the application rates taking into consideration the existing pavement surface conditions.

Table UC

Material	Minimum Application Rate (gal. per square yard)
TRAIL – Hot Asphalt	0.15
Spray Applied Underseal Membrane	0.20
Seal Coat – Emulsion (CHFRS-2P, CRS-2P)	0.25
Seal Coat – Asphalt (AC-15P, AC-20-5TR, AC-20XP, AC10-2TR)	0.23
Aggregate for Seal Coat Options TY PB GR 4(AC) or TY B GR 4(Emulsion)	1 CY:120 SY

--Item 6185--
4 shadow vehicles with TMA will be required for this project. The TMA's will be measured and paid for by the DAY for each TMA/TA set up and operational on the worksite. The contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA's needed for the project. See TMA and TA Summary sheet in the plans.

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0017-02-078 **DISTRICT** San Antonio **COUNTY** Bexar
HIGHWAY IH 35

			CONTROL SECTION JOB	**0017-02-078**		**0017-03-068**		TOTAL EST.	TOTAL FINAL
			PROJECT ID	**A00063829**		**A00130144**			
			COUNTY	**Bexar**		**Bexar**			
			HIGHWAY	**IH 35**		**IH 35**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL		
	104-6054	REMOVING CONCRETE(MOW STRIP)	LF	18,652.000		16,179.000		34,831.000	
	105-6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY			245.000		245.000	
	110-6001	EXCAVATION (ROADWAY)	CY			124.000		124.000	
	132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	14.000		144.000		158.000	
	150-6002	BLADING	HR			8.000		8.000	
	161-6017	COMPOST MANUF TOPSOIL (4")	SY			326.000		326.000	
	164-6021	CELL FBR MLCH SEED(PERM)(RURAL)(SANDY)	SY			326.000		326.000	
	168-6001	VEGETATIVE WATERING	MG			5.000		5.000	
	216-6001	PROOF ROLLING	HR			2.000		2.000	
	351-6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	17,971.000		1,702.000		19,673.000	
	354-6048	PLANE ASPH CONC PAV (3")	SY	150,278.000		180,730.000		331,008.000	
	354-6096	PLANE ASPH CONC PAV (3"- 5")	SY	3,624.000		1,691.000		5,315.000	
	354-6106	PLANE ASPH CONC PAV (1" TO 4")	SY	8,492.000		3,820.000		12,312.000	
	429-6008	CONC STR REPR(RAPID VERT AND OVERHEAD)	SF	8.000				8.000	
	432-6005	RIPRAP (CONC) (CL A)	CY	411.000		406.000		817.000	
	432-6045	RIPRAP (MOW STRIP)(4 IN)	CY	255.000		117.000		372.000	
	438-6005	CLEANING AND SEALING JOINTS	LF	1,624.000				1,624.000	
	454-6008	HEADER TYPE EXPANSION JOINT	CF	394.800				394.800	
	500-6001	MOBILIZATION	LS	1.000				1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	15.000				15.000	
	506-6040	BIODEG EROSN CONT LOGS (INSTL) (8")	LF	7,280.000		2,286.000		9,566.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	7,280.000		2,286.000		9,566.000	
	533-6001	RUMBLE STRIPS (SHOULDER)	LF	48,516.000		55,919.000		104,435.000	
	540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	3,463.000		1,363.000		4,826.000	
	540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1.000		5.000		6.000	
	540-6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	17.000		7.000		24.000	
	542-6001	REMOVE METAL BEAM GUARD FENCE	LF	3,100.000		1,237.500		4,337.500	
	542-6002	REMOVE TERMINAL ANCHOR SECTION	EA	11.000		11.000		22.000	
	542-6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	6.000				6.000	
	542-6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	1.000				1.000	
	543-6002	CABLE BARRIER SYSTEM (TL-4)	LF	14,082.000		13,948.000		28,030.000	
	543-6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	10.000		8.000		18.000	
	543-6021	REMOVE CABLE BARRIER	LF	14,082.000		13,948.000		28,030.000	
	543-6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	10.000		8.000		18.000	
	544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	16.000		12.000		28.000	
	544-6003	GUARDRAIL END TREATMENT (REMOVE)	EA	16.000		8.000		24.000	
	644-6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA			6.000		6.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0017-02-078 **DISTRICT** San Antonio **COUNTY** Bexar
HIGHWAY IH 35

			CONTROL SECTION JOB		**0017-02-078**		**0017-03-068**		TOTAL EST.	TOTAL FINAL
			PROJECT ID		**A00063829**		**A00130144**			
			COUNTY		**Bexar**		**Bexar**			
			HIGHWAY		**IH 35**		**IH 35**			
ALT	**BID CODE**	**DESCRIPTION**		**UNIT**	EST.	FINAL	EST.	FINAL		
	658-6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB		EA	14.000		6.000		20.000	
	658-6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND		EA	2.000				2.000	
	658-6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)		EA	18.000		9.000		27.000	
	658-6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2		EA	56.000		28.000		84.000	
	658-6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)		EA			10.000		10.000	
	658-6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2		EA	23.000		14.000		37.000	
	662-6005	WK ZN PAV MRK NON-REMOV (W)6"(BRK)		LF	17,616.000		18,820.000		36,436.000	
	662-6008	WK ZN PAV MRK NON-REMOV (W)6"(SLD)		LF	70,814.000		89,770.000		160,584.000	
	662-6019	WK ZN PAV MRK NON-REMOV (W)(ENTR GORE)		EA	12.000		10.000		22.000	
	662-6020	WK ZN PAV MRK NON-REMOV (W)(EXIT GORE)		EA	12.000		10.000		22.000	
	662-6031	WK ZN PAV MRK NON-REMOV(W)36"(YLD TRI)		EA	20.000		38.000		58.000	
	662-6037	WK ZN PAV MRK NON-REMOV (Y)6"(SLD)		LF	71,940.000		86,292.000		158,232.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W		EA	6,231.000		7,431.000		13,662.000	
	662-6110	WK ZN PAV MRK SHT TERM (TAB)TY Y		EA	1,837.000		2,267.000		4,104.000	
	666-6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)		LF	213.000		114.000		327.000	
	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)		LF	236.000				236.000	
	666-6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)		EA	6.000		5.000		11.000	
	666-6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)		EA	6.000		5.000		11.000	
	666-6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)		EA	20.000		38.000		58.000	
	666-6225	PAVEMENT SEALER 6"		LF	80,365.000		97,831.000		178,196.000	
	666-6228	PAVEMENT SEALER 12"		LF	236.000				236.000	
	666-6239	PAVEMENT SEALER (ENTR GORE)		EA	6.000		5.000		11.000	
	666-6240	PAVEMENT SEALER (EXIT GORE)		EA	6.000		5.000		11.000	
	666-6243	PAVEMENT SEALER (YLD TRI)		EA	20.000		38.000		58.000	
	666-6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)		LF	8,808.000		9,410.000		18,218.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)		LF	35,407.000		45,278.000		80,685.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)		LF	35,970.000		43,143.000		79,113.000	
	668-6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST		LF	180.000				180.000	
	672-6008	REFL PAV MRKR TY I-R		EA	112.000		140.000		252.000	
	672-6010	REFL PAV MRKR TY II-C-R		EA	736.000		786.000		1,522.000	
	677-6002	ELIM EXT PAV MRK & MRKS (6")		LF	80,365.000		97,831.000		178,196.000	
	677-6004	ELIM EXT PAV MRK & MRKS (10")		LF	180.000				180.000	
	677-6005	ELIM EXT PAV MRK & MRKS (12")		LF	300.000				300.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)		EA	8.000		10.000		18.000	
	677-6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)		EA	6.000		5.000		11.000	
	677-6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)		EA	6.000		5.000		11.000	
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)		EA	20.000		38.000		58.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0017-02-078 **DISTRICT** San Antonio **COUNTY** Bexar
HIGHWAY IH 35

			CONTROL SECTION JOB		**0017-02-078**		**0017-03-068**		TOTAL EST.	TOTAL FINAL
			PROJECT ID		**A00063829**		**A00130144**			
			COUNTY		**Bexar**		**Bexar**			
			HIGHWAY		**IH 35**		**IH 35**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL		
	678-6002	PAV SURF PREP FOR MRK (6")	LF	180.000				180.000	
	734-6002	LITTER REMOVAL	CYC	15.000				15.000	
	735-6002	DEBRIS REMOVAL (CNTR MEDIANS/MAINLANES)	MI	161.000				161.000	
	738-6003	CLEANING / SWEEPING (OUTSIDE MAIN LANE)	CYC	15.000				15.000	
	778-6001	CONCRETE RAIL REPAIR (IN-KIND)	LF	12.000				12.000	
	3076-6003	D-GR HMA TY-B PG64-22 (EXEMPT)	TON			352.000		352.000	
	3076-6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	TON	11,062.000		13,148.000		24,210.000	
	3076-6066	TACK COAT	GAL			306.000		306.000	
	3080-6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	TON	18,675.000		21,477.000		40,152.000	
	3084-6001	BONDING COURSE	GAL	19,487.000		22,410.000		41,897.000	
	3085-6001	UNDERSEAL COURSE	GAL	30,781.000		36,586.000		67,367.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	206.000				206.000	
	6185-6002	TMA (STATIONARY)	DAY	206.000				206.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY	138.000				138.000	
	01	STATE FORCE ACCOUNT WORK (NON-PARTICIPATING)	LS	1.000				1.000	
	08	CONTRACTOR FORCE ACCOUNT EROSION CONTROL MAINTENANCE (NON-PARTICIPATING)	LS	1.000				1.000	
		CONTRACTOR FORCE ACCOUNT LAW ENFORCEMENT (NON-PARTICIPATING)	LS	1.000				1.000	
		CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000				1.000	

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SUMMARY OF WORKZONE TRAFFIC CONTROL ITEMS

SHEET NO.	LOCATION	662 6005	662 6008	662 6019	662 6020	662 6031	662 6037	662 6109	662 6110	734 6002	735 6002	738 6003	6001 6001	6185 6002	6185 6005
		WK ZN PAV MRK NON-REMOV (W)6"(BRK)	WK ZN PAV MRK NON-REMOV (W)6"(SLD)	WK ZN PAV MRK NON-REMOV (W)(ENTR GORE)	WK ZN PAV MRK NON-REMOV (W)(EXIT GORE)	WK ZN PAV MRK NON-REMOV(W)36"(YLD TRI)	WK ZN PAV MRK NON-REMOV (Y)6"(SLD)	WK ZN PAV MRK SHT TERM (TAB)TY W	WK ZN PAV MRK SHT TERM (TAB)TY Y	LITTER REMOVAL *	DEBRIS REMOVAL (CNTR MEDIANS/MAINLANES) *	CLEANING / SWEEPING (OUTSIDE MAIN LANE) *	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)	TMA (MOBILE OPERATION)
		LF	LF	EA	EA	EA	LF	EA	EA	CYC	MI	CYC	DAY	DAY	DAY
1	BEGIN PROJ TO STA 288+00	1500	8008	2	2	7	8068	708	202						
2	STA 288+00 TO STA 310+00	2200	9000				9872	719	247						
3	STA 310+00 TO STA 322+00	2200	12364	2	2	7	11914	1008	290						
4	STA 322+00 TO STA 354+00	2200	8800				8800	660	220						
5	STA 354+00 TO STA 376+00	2200	11770	2	2	8	11736	1048	301						
6	STA 376+00 TO STA 398+00	2200	11778	2		8	7460	1008	290						
7	STA 398+00 TO STA 420+00	2200	8804		2		8956	656	224						
8	STA 420+00 TO STA 442+00	2212	11598	2	2	8	11838	1048	301						
9	STA 442+00 TO STA 464+00	1908	7648				7648	576	192						
	CSJ 0017-03-068	18820	89770	10	10	38	86292	7431	2267						
9	STA 442+00 TO STA 464+00	280	1096				1096	84	28						
10	STA 464+00 TO STA 486+00	2610	9888	2	2	20	10358	851	227						
11	STA 486+00 TO STA 508+00	2366	8378	2			9386	660	220						
12	STA 508+00 TO STA 530+00	2200	9088		2		9130	660	220						
13	STA 530+00 TO STA 552+00	2200	9488				8662	660	220						
14	STA 552+00 TO STA 574+00	2200	9540	2	2		10160	1008	290						
15	STA 574+00 TO STA 596+00	2200	9424	2	2		9444	1008	290						
16	STA 596+00 TO STA 618+00	2200	8786	2	2		8800	660	220						
17	STA 618+00 TO END	1360	5126	2	2		4904	640	122						
	CSJ 0017-02-078	17616	70814	12	12	20	71940	6231	1837						
	PROJECT TOTALS	36436	160584	22	22	58	158232	13662	4104	15	161	15	206	206	138

* NON-PARTICIPATING ITEM

SUMMARY OF EROSION CONTROL ITEMS

SHEET NO.	LOCATION	150 6002	161 6017	164 6021	168 6001	506 6040	506 6043
		BLADING	COMPOST MANUF TOPSOIL (4")	CELL FBR MLCH SEED(PERM) (RURAL)(SANDY)	VEGETATIVE WATERING	BIODEG EROSN CONT LOGS (INSTL) (8")	BIODEG EROSN CONT LOGS (REMOVE)
		HR	SY	SY	MG	LF	LF
1	BEGIN PROJ TO STA 288+00					135	135
2	STA 288+00 TO STA 310+00					182	182
3	STA 310+00 TO STA 322+00					198	198
4	STA 322+00 TO STA 354+00					198	198
5	STA 354+00 TO STA 376+00	4	124	124	2	601	601
6	STA 376+00 TO STA 398+00	4	202	202	3	576	576
7	STA 398+00 TO STA 420+00					198	198
8	STA 420+00 TO STA 442+00					198	198
9	STA 442+00 TO STA 464+00						
	CSJ 0017-03-068	8	326	326	5	2286	2286
9	STA 442+00 TO STA 464+00					1852	1852
10	STA 464+00 TO STA 486+00					272	272
11	STA 486+00 TO STA 508+00					382	382
12	STA 508+00 TO STA 530+00					177	177
13	STA 530+00 TO STA 552+00					198	198
14	STA 552+00 TO STA 574+00					198	198
15	STA 574+00 TO STA 596+00					1910	1910
16	STA 596+00 TO STA 618+00					980	980
17	STA 618+00 TO END					1311	1311
	CSJ 0017-02-078	0	0	0	0	7280	7280
	PROJECT TOTALS	8	326	326	5	9566	9566

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REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
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IH 35

TCP & SW3P SUMMARY

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	10

	SUMMARY OF REMOVAL ITEMS												
SHEET NO.	LOCATION	104 6054	105 6026	354 6048	354 6096	354 6106	542 6001	542 6002	542 6003	542 6004	543 6021	543 6022	544 6003
		REMOVING CONCRETE (MOW STRIP)	REMOVE STAB BASE & ASPH PAV (13"-18")	PLANE ASPH CONC PAV (3")	PLANE ASPH CONC PAV (3"- 5")	PLANE ASPH CONC PAV (1" TO 4")	REMOVE METAL BEAM GUARD FENCE	REMOVE TERMINAL ANCHOR SECTION	REMOVE DOWNSTREAM ANCHOR TERMINAL	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	REMOVE CABLE BARRIER	REMOVE CABLE BARRIER TERMINAL SECTION	GUARDRAIL END TREATMENT (REMOVE)
		LF	SY	SY	SY	SY	LF	EA	EA	EA	LF	EA	EA
1	BEGIN PROJ TO STA 288+00			16771									
2	STA 288+00 TO STA 310+00	698		17466	857	1541					641	1	
3	STA 310+00 TO STA 322+00	2180		23839							2066	2	
4	STA 322+00 TO STA 354+00	2200		18789							2200		
5	STA 354+00 TO STA 376+00	2200	119	24314							2200		
6	STA 376+00 TO STA 398+00	1971	126	19146	834	2279					1857	2	
7	STA 398+00 TO STA 420+00	2200		20246							2200		
8	STA 420+00 TO STA 442+00	2222		23906							2222		
9	STA 442+00 TO STA 464+00	2508		16253			1238	11			562	3	8
	CSJ 0017-03-068	16179	245	180730	1691	3820	1238	11	0	0	13948	8	8
9	STA 442+00 TO STA 464+00			2390									
10	STA 464+00 TO STA 486+00	125		17255	522	3373	75			1			1
11	STA 486+00 TO STA 508+00	2316		21207	513	67	125				1970	3	1
12	STA 508+00 TO STA 530+00	2037		15956	1704	1757	75		1		1798	2	
13	STA 530+00 TO STA 552+00	2200		19478							2200		
14	STA 552+00 TO STA 574+00	2200		23193							2200		
15	STA 574+00 TO STA 596+00	3701		21494			1350	4	2		1937	2	6
16	STA 596+00 TO STA 618+00	2618		14860	885	3295	575	4			1729	2	4
17	STA 618+00 TO END	3455		14445			900	3	3		2248	1	4
	CSJ 0017-02-078	18652	0	150278	3624	8492	3100	11	6	1	14082	10	16
	PROJECT TOTALS	34831	245	331008	5315	12312	4338	22	6	1	28030	18	24

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REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

REMOVAL SUMMARY

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	12

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SUMMARY OF ROADWAY ITEMS

SHEET NO.	LOCATION	132 6003	110 6001	351 6004	432 6045	432 6005	540 6001	540 6006	540 6016	543 6002	543 6020	544 6001	3076 6003	3076 6066	3076 6043	3080 6007	3084 6001	3085 6001	216 6001
		EMBANKMENT (FINAL)(ORD COMP)(TY B)	EXCAVATION (ROADWAY)	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	RIPRAP (MOW STRIP)(4 IN)	*** RIPRAP (CONC) (CL A)	MTL W-BEAM GD FEN (TIM POST)	MTL BEAM GD FEN TRANS (THRIE-BEAM)	DOWNSTREAM ANCHOR TERMINAL SECTION	CABLE BARRIER SYSTEM (TL-4)	CABLE BARRIER TERMINAL SECTION (TL-4)	GUARDRAIL END TREATMENT (INSTALL)	* D-GR HMA TY-B PG64-22 (EXEMPT)	* TACK COAT	* **** D-GR HMA TY-D PG70-22 (LEVEL-UP)	* STONE-MTRX-ASPH SMA-D SAC-A PG76-22	* BONDING COURSE	* UNDERSEAL COURSE	PROOF ROLLING
		CY	CY	SY	CY	CY	LF	EA	EA	LF	EA	EA	SY	SY	SY	SY	SY	SY	HR
1	BEGIN PROJ TO STA 288+00			162											16771	16771	16771	16771	
2	STA 288+00 TO STA 310+00			225		20				641	1				18323	19864	19864	18323	
3	STA 310+00 TO STA 322+00					61				2066	2				23839	23839	23839	23839	
4	STA 322+00 TO STA 354+00					62				2200					18789	18789	18789	18789	
5	STA 354+00 TO STA 376+00	65	58	164		62				2200			244	732	24558	24558	24558	24558	1
6	STA 376+00 TO STA 398+00	72	66	663		56				1857	2		266	798	20246	22525	22525	20246	1
7	STA 398+00 TO STA 420+00			488		62				2200					20246	20246	20246	20246	
8	STA 420+00 TO STA 442+00					62				2222					23906	23906	23906	23906	
9	STA 442+00 TO STA 464+00	** 7			117	21	1362.5	5	7	562	3	12			16253	16253	16253	16253	
	CSJ 0017-03-068	144	124	1702	117	406	1363	5	7	13948	8	12	510	1530	182931	186751	186751	182931	2
9	STA 442+00 TO STA 464+00														2390	2390	2390	2390	
10	STA 464+00 TO STA 486+00	** 1			11		150	1				1			17777	21150	21150	17777	
11	STA 486+00 TO STA 508+00	** 1			10	60	125			1970	3	1			21720	21787	21787	21720	
12	STA 508+00 TO STA 530+00	** 1		1352	3	53	75		1	1798	2				17660	19417	19417	17660	
13	STA 530+00 TO STA 552+00			5015		62				2200					19478	19478	19478	19478	
14	STA 552+00 TO STA 574+00			5703		62				2200					23193	23193	23193	23193	
15	STA 574+00 TO STA 596+00	** 6		5653	92	57	1462.5		6	1937	2	6			21494	21494	21494	21494	
16	STA 596+00 TO STA 618+00	** 2			57	52	725		4	1729	2	4			15745	19040	19040	15745	
17	STA 618+00 TO END	** 3		248	82	65	925		6	2248	1	4			14445	14445	14445	14445	
	CSJ 0017-02-078	14	0	17971	255	411	3463	1	17	14082	10	16	0	0	153902	162394	162394	153902	0
	PROJECT TOTALS	158	124	19673	372	817	4825	6	24	28030	18	28	510	1530	336833	349145	349145	336833	2

BRIDGE SUMMARY

DESCRIPTION	429 6008	438 6005	454 6008	778 6001
	CONC STR REPR(RAPID VERT AND OVERHEAD)	CLEANING AND SEALING JOINTS	HEADER TYPE EXPANSION JOINT	CONCRETE RAIL REPAIR (IN-KIND)
	SF	LF	CF	LF
ROADWAY DETAILS (MILLING AT BRIDGES)		1624	394.8	
RAILING REPAIR DETAILS IH 35 NBML AT MEDINA RIVER				12
CAP REPAIR DETAILS IH 35 NBML AT IH 410	8			
PROJECT TOTALS	8	1624	394.8	12

* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

** EMBANKMENT ASSOCIATED WITH THE PLACEMENT OF GUARDRAIL MOW STRIP

*** MOW STRIP ASSOCIATED WITH THE PLACEMENT OF CABLE BARRIER

**** NO SUBSTITUTE BINDER (GRADE DUMPING) IS ALLOWED IN THIS MIXTURE.

1 REVISED 02/22/2023

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY SUMMARY

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	13

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SUMMARY OF PAVEMENT MARKING ITEMS

SHEET NO.	LOCATION	533 6001	644 6068	658 6013	658 6024	658 6027	658 6061	658 6062	658 6064	666 6018	666 6042	666 6081	666 6084	666 6102	666 6225	666 6228	666 6239	666 6240	666 6243	666 6306	666 6309	666 6321
		RUMBLE STRIPS (SHOULDER)	RELOCATE SM RD SN SUP&AM TY 10BWG	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	REFL PAV MRK TY I (W)6"(DOT) (100MIL)	REFL PAV MRK TY I (W)12"(SLD) (100MIL)	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	PAVEMENT SEALER 6"	PAVEMENT SEALER 12"	PAVEMENT SEALER (ENTR GORE)	PAVEMENT SEALER (EXIT GORE)	PAVEMENT SEALER (YLD TRI)	RE PM W/RET REQ TY I (W)6"(BRK) (100MIL)	RE PM W/RET REQ TY I (W)6"(SLD) (100MIL)	RE PM W/RET REQ TY I (Y)6"(SLD) (100MIL)
		LF	EA	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	LF	LF	EA	EA	EA	LF	LF	LF
1	BEGIN PROJ TO STA 288+00	3575								24		1	1		8788		1	1	7	750	4004	4034
2	STA 288+00 TO STA 310+00	7750												7	10922					1100	4889	4933
3	STA 310+00 TO STA 332+00	6000								21		1	1	7	13243		1	1	7	1100	6186	5957
4	STA 332+00 TO STA 354+00	4400													9900					1100	4400	4400
5	STA 354+00 TO STA 376+00	4000	4							30		1	1	8	12853		1	1	8	1100	5885	5868
6	STA 376+00 TO STA 398+00	7260	2									1		8	10719		1		8	1100	5889	3730
7	STA 398+00 TO STA 420+00	9200								24			1		9980			1		1100	4402	4478
8	STA 420+00 TO STA 442+00	5866								15		1	1	8	12824		1	1	8	1106	5799	5919
9	STA 442+00 TO STA 464+00	7868		6		9	28	10	14						8602					954	3824	3824
	CSJ 0017-03-068	55919	6	6	0	9	28	10	14	114	0	5	5	38	97831	0	5	5	38	9410	45278	43143
9	STA 442+00 TO STA 464+00	932				3									1236					140	548	548
10	STA 464+00 TO STA 486+00	5200		11		15	4				236	1	1	20	11608	236	1	1	20	1305	4944	5179
11	STA 486+00 TO STA 508+00	7100		3	2		4					1			10065		1			1183	4189	4693
12	STA 508+00 TO STA 530+00	5800					2						1		10209			1		1100	4544	4565
13	STA 530+00 TO STA 552+00	8800													10175					1100	4744	4331
14	STA 552+00 TO STA 574+00	6300										1	1		10950		1	1		1100	4770	5080
15	STA 574+00 TO STA 596+00	4128					20		18	213		1	1		10534		1	1		1100	4712	4722
16	STA 596+00 TO STA 618+00	6056					13					1	1		9893		1	1		1100	4393	4400
17	STA 618+00 TO END	4200					13		5			1	1		5695		1	1		680	2563	2452
	CSJ 0017-02-078	48516	0	14	2	18	56	0	23	213	236	6	6	20	80365	236	6	6	20	8808	35407	35970
	PROJECT TOTALS	104435	6	20	2	27	84	10	37	327	236	11	11	58	178196	236	11	11	58	18218	80685	79113

SUMMARY OF PAVEMENT MARKING ITEMS (CONT)

SHEET NO.	LOCATION	668 6010	672 6008	672 6010	677 6002	677 6004	677 6005	677 6008	677 6013	677 6014	677 6019	678 6002
		PREFAB PAV MRK TY B (W)(6")(BRK) CNTST	REFL PAV MRKR TY I-R	REFL PAV MRKR TY II-C-R	ELIM EXT PAV MRK & MRKS (6")	ELIM EXT PAV MRK & MRKS (10")	ELIM EXT PAV MRK & MRKS (12")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (ENTR GORE)	ELIM EXT PAV MRK & MRKS (EXIT GORE)	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	PAV SURF PREP FOR MRK (6")
		LF	EA	EA	LF	LF	LF	EA	EA	EA	EA	LF
1	BEGIN PROJ TO STA 288+00		28	104	8788			2	1	1	7	0
2	STA 288+00 TO STA 310+00			56	10922							0
3	STA 310+00 TO STA 322+00		28	116	13243			2	1	1	7	0
4	STA 322+00 TO STA 354+00			56	9900							0
5	STA 354+00 TO STA 376+00		28	126	12853			2	1	1	8	0
6	STA 376+00 TO STA 398+00		14	64	10719			2	1		8	0
7	STA 398+00 TO STA 420+00		14	100	9980					1		0
8	STA 420+00 TO STA 442+00		28	114	12824			2	1	1	8	0
9	STA 442+00 TO STA 464+00			50	8602							0
	CSJ 0017-03-068	0	140	786	97831	0	0	10	5	5	38	0
9	STA 442+00 TO STA 464+00			6	1236							0
10	STA 464+00 TO STA 486+00	180	28	119	11608	180	300	2	1	1	20	180
11	STA 486+00 TO STA 508+00			84	10065				1			0
12	STA 508+00 TO STA 530+00		14	82	10209			2		1		0
13	STA 530+00 TO STA 552+00		14	56	10175							0
14	STA 552+00 TO STA 574+00		28	124	10950			2	1	1		0
15	STA 574+00 TO STA 596+00		28	108	10534			2	1	1		0
16	STA 596+00 TO STA 618+00			74	9893				1	1		0
17	STA 618+00 TO END			83	5695				1	1		0
	CSJ 0017-02-078	180	112	736	80365	180	300	8	6	6	20	180
	PROJECT TOTALS	180	252	1522	178196	180	300	18	11	11	58	180

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REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

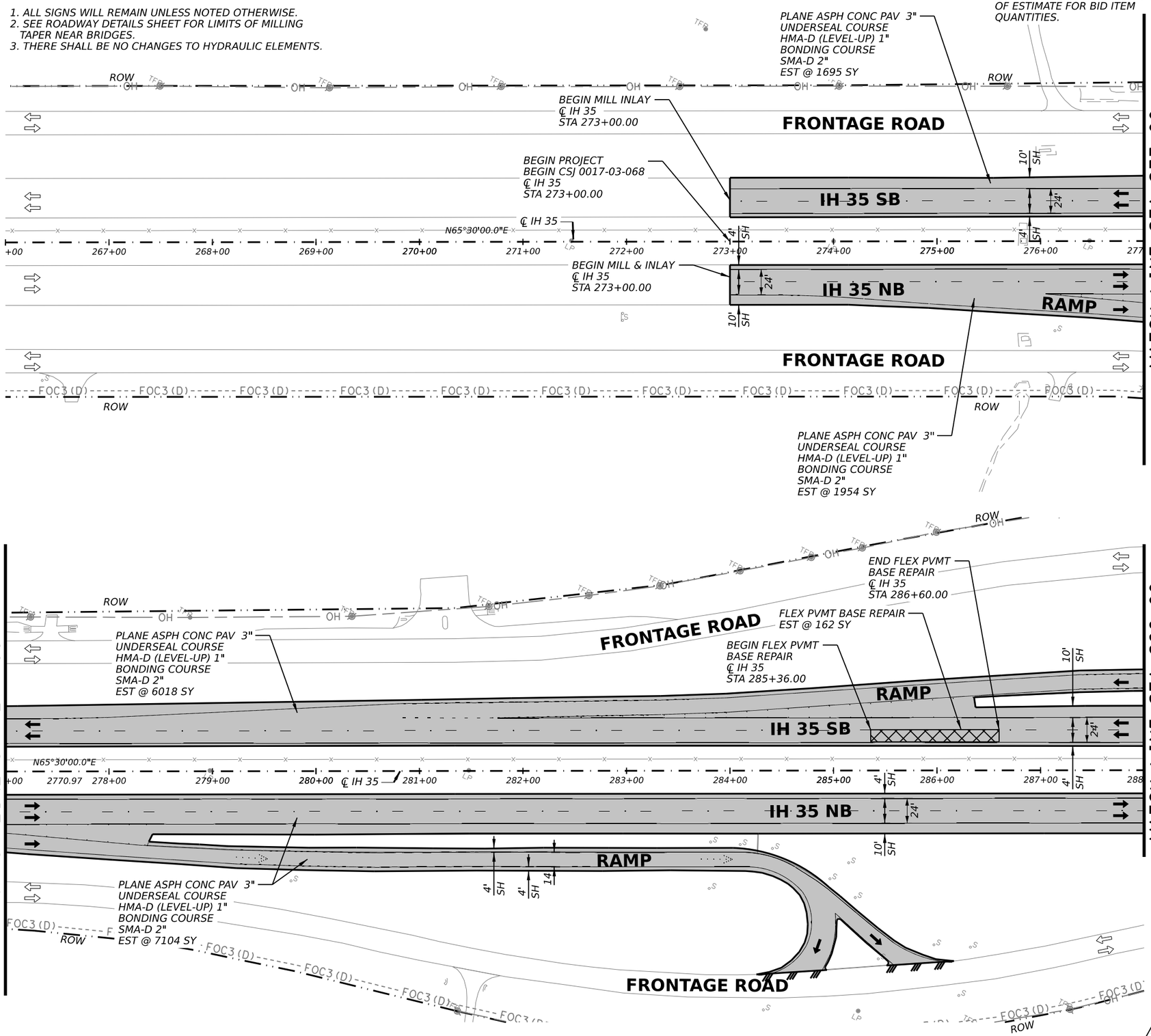
PAVEMENT MARKINGS & DELINEATION SUMMARY

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	14

NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.



QUANTITY SUMMARY CSJ 0017-03-068				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	0
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	16771
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	0
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	162
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	0
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	0
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
* 3076	6066	TACK COAT	SY	0
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	16771
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	16771
* 3084	6001	BONDING COURSE	SY	16771
* 3085	6001	UNDERSEAL COURSE	SY	16771

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER

Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY PLAN SHEETS
BEGIN TO STA 288+00

SHEET 1 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	53

1 REVISED 02/22/2023

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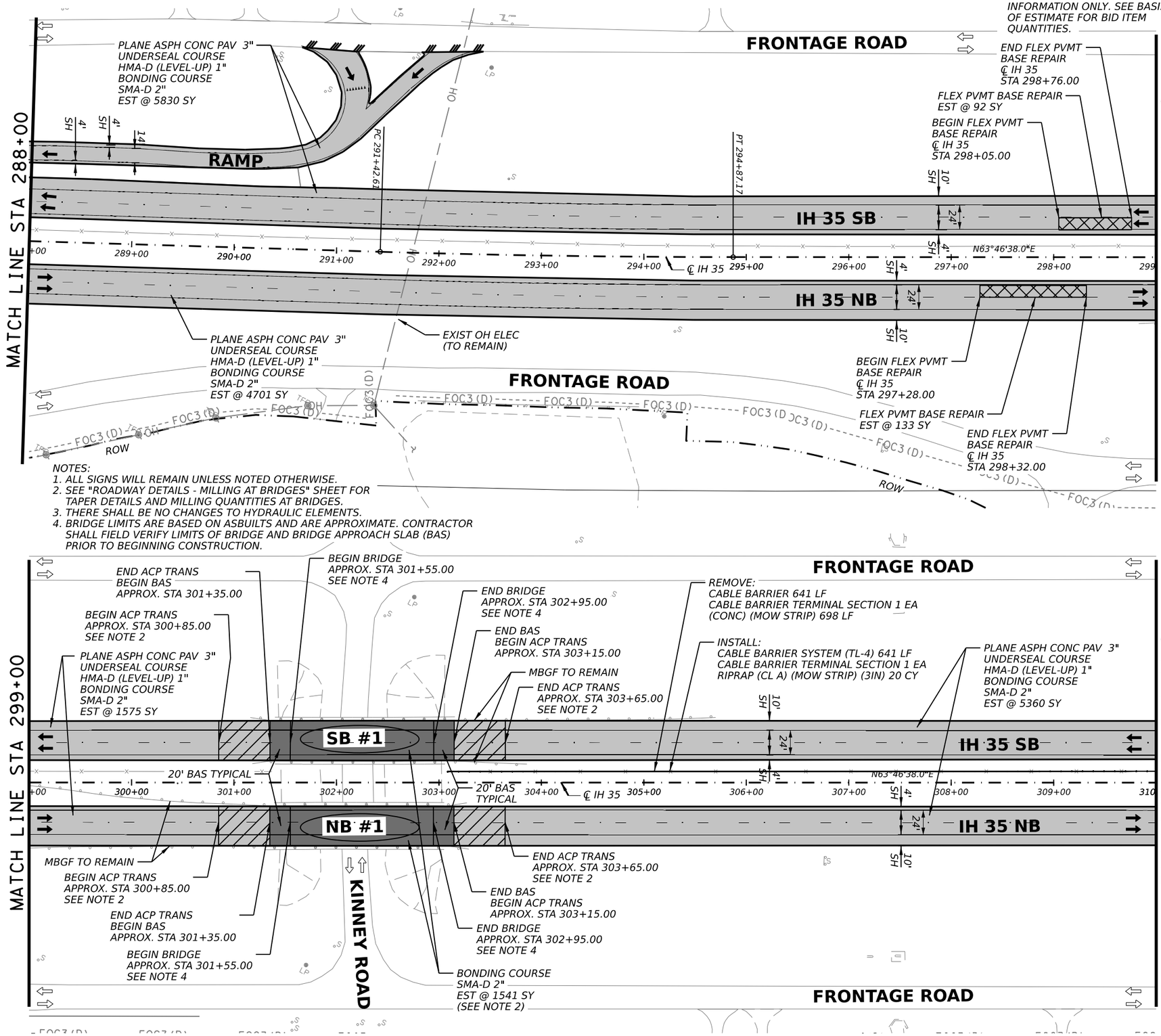

QUANTITY SUMMARY CSJ 0017-03-068				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	698
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	17466
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	857
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	1541
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	641
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	1
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	225
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	20
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	641
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	1
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
* 3076	6066	TACK COAT	SY	0
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	18323
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	19864
* 3084	6001	BONDING COURSE	SY	19864
* 3085	6001	UNDERSEAL COURSE	SY	18323

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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ROADWAY PLAN SHEETS
STA 288+00 TO STA 310+00

SHEET 2 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	54

1 REVISED 02/22/2023

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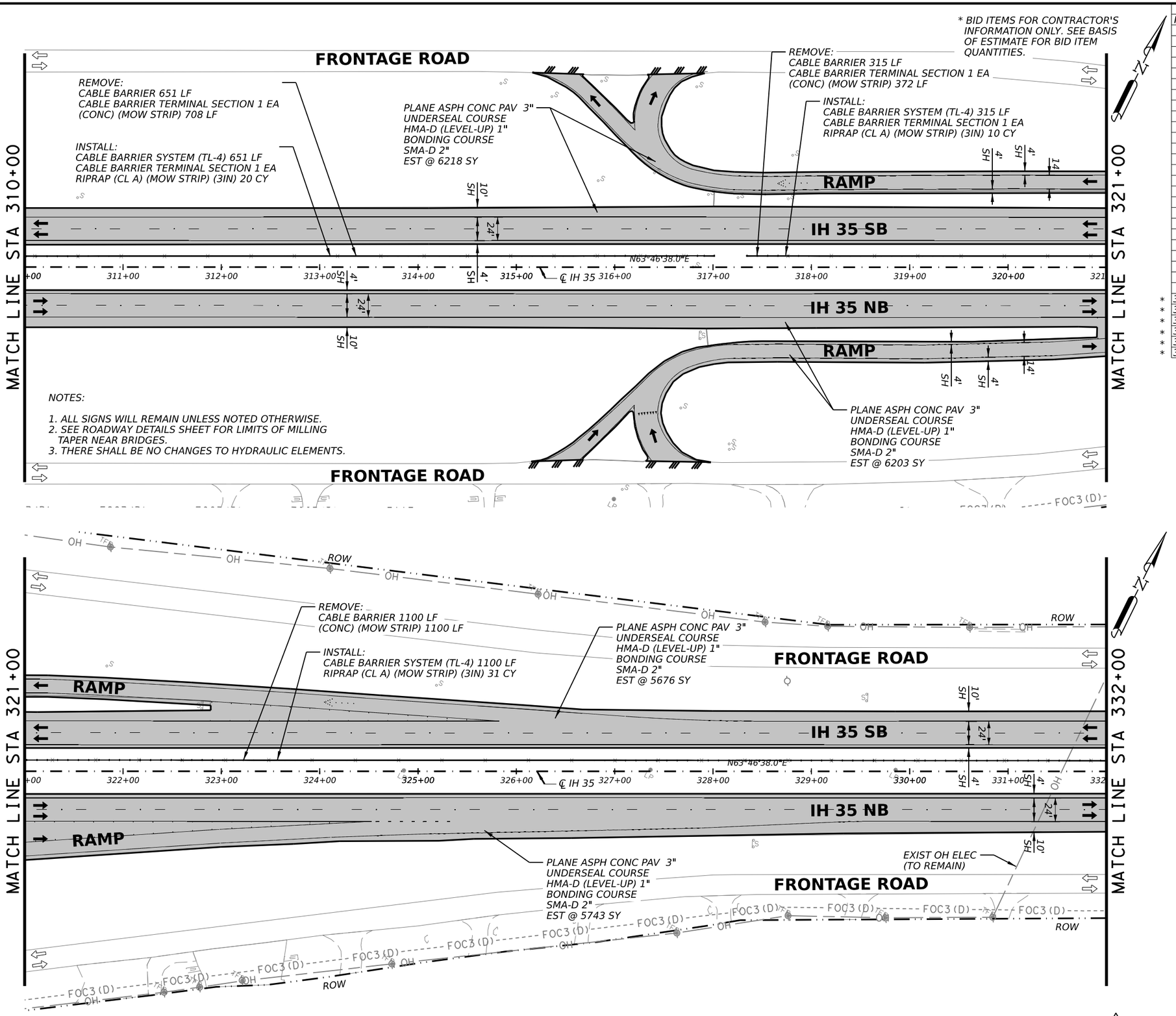

QUANTITY SUMMARY CSJ 0017-03-068				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2180
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	23839
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	2066
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	2
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	61
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2066
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
* 3076	6066	TACK COAT	SY	0
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	23839
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	23839
* 3084	6001	BONDING COURSE	SY	23839
* 3085	6001	UNDERSEAL COURSE	SY	23839

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY
1	02/22/2023	REVISED	

LJA Engineering, Inc.
FRN-F-1386

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ROADWAY PLAN SHEETS
STA 310+00 TO STA 332+00

SHEET 3 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	55

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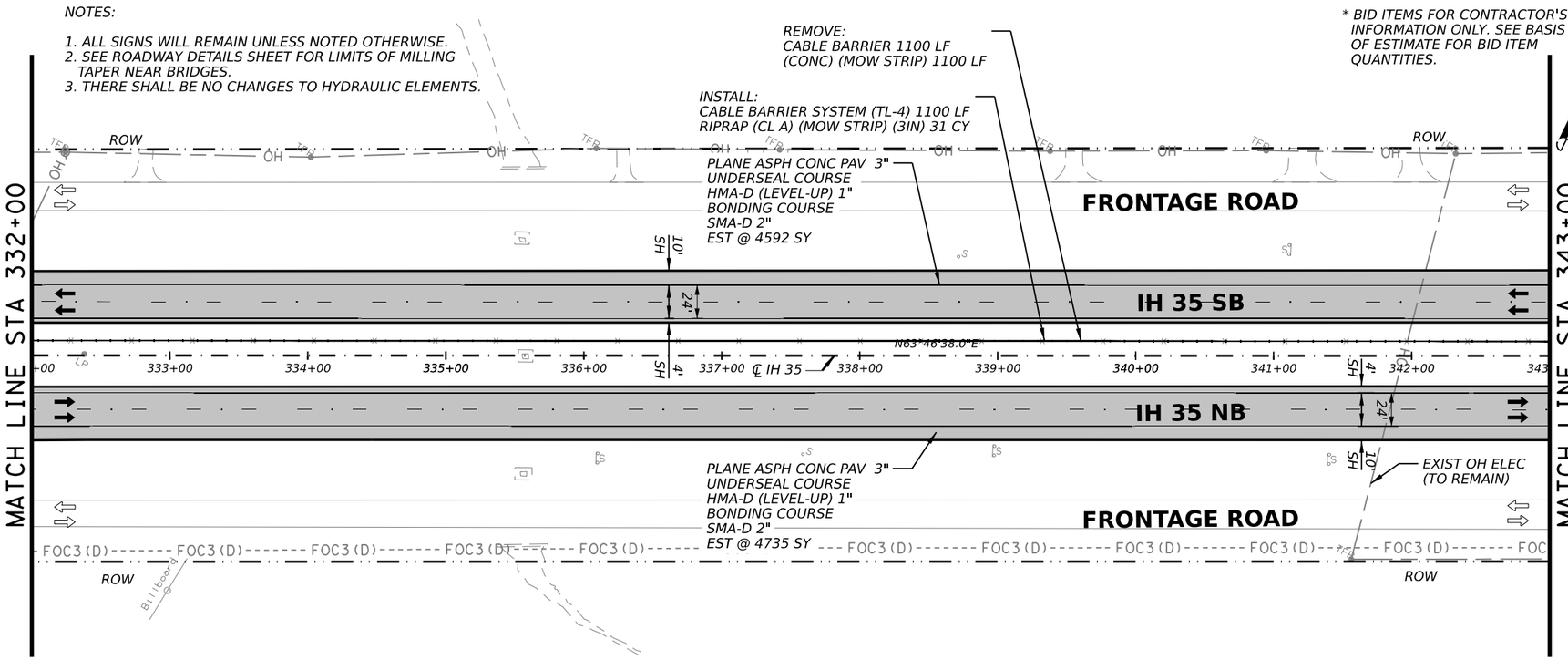
NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.



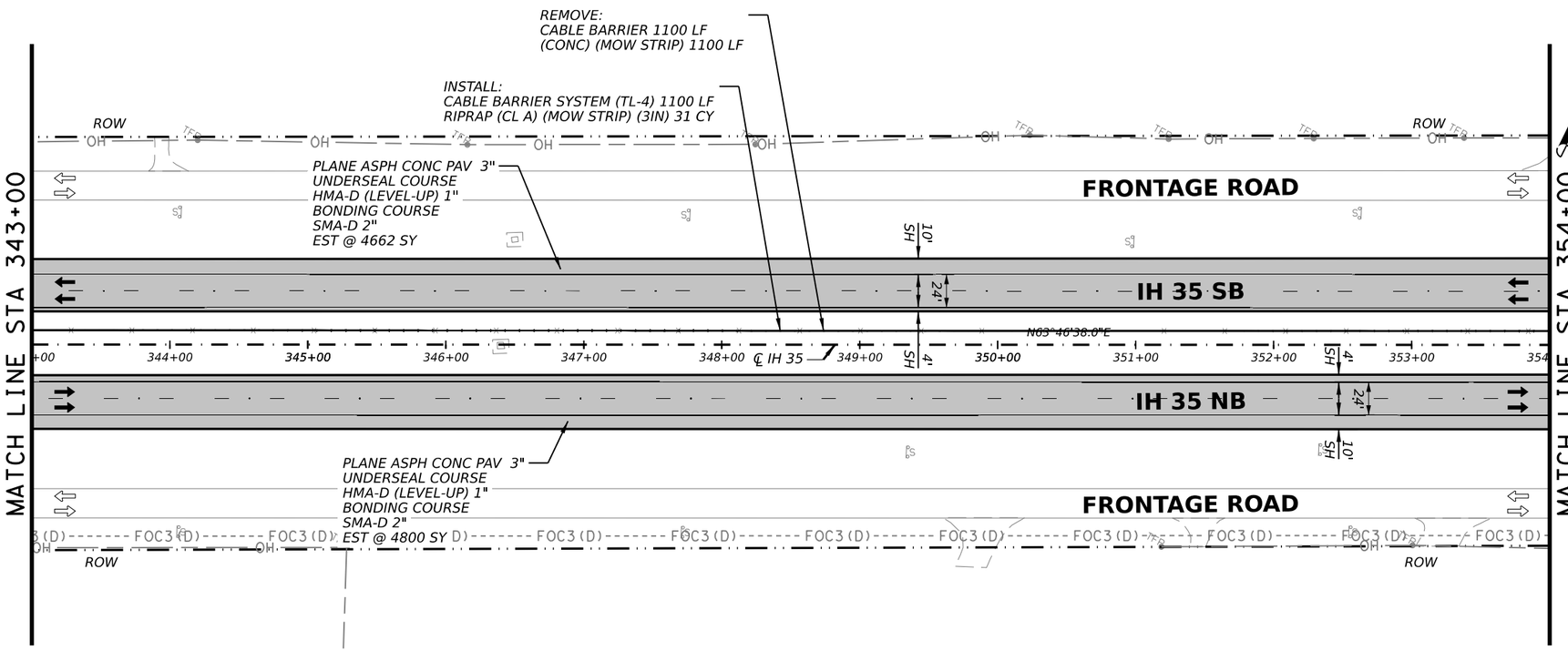
* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

QUANTITY SUMMARY CSJ 0017-03-068

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2200
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	18789
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	2200
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
	432	6005	RIPRAP (CONC) (CL A)	CY	62
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2200
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	18789
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	18789
*	3084	6001	BONDING COURSE	SY	18789
*	3085	6001	UNDERSEAL COURSE	SY	18789

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER



STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
Julio A. Rangel
2/22/2023

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SCALE: 1"=100'

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FRN - F-1386

Texas Department of Transportation

IH 35

ROADWAY PLAN SHEETS
STA 332+00 TO STA 354+00

SHEET 4 OF 17

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	56

1 REVISED 02/22/2023

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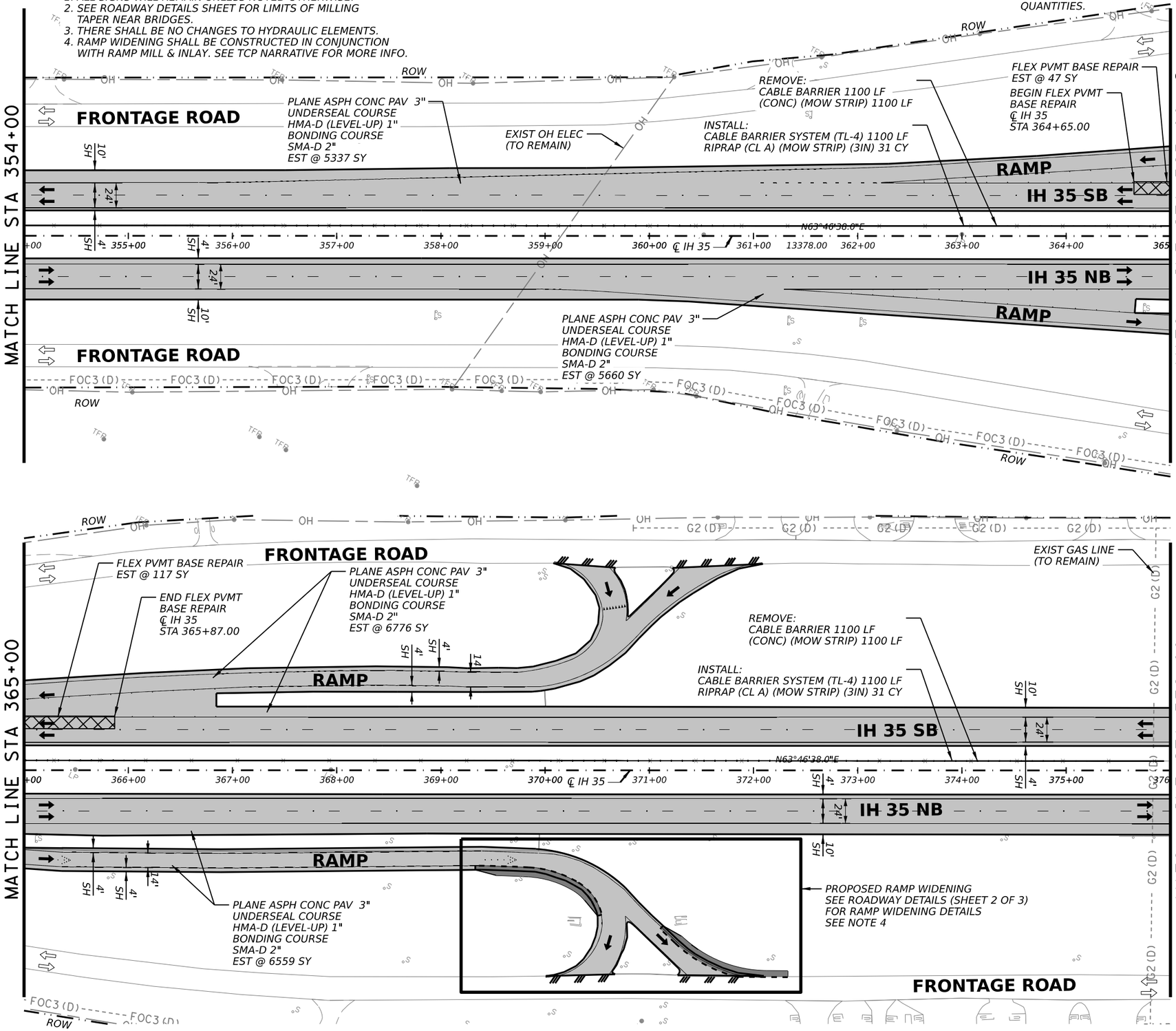
NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. RAMP WIDENING SHALL BE CONSTRUCTED IN CONJUNCTION WITH RAMP MILL & INLAY. SEE TCP NARRATIVE FOR MORE INFO.

* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.



QUANTITY SUMMARY CSJ 0017-03-068				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2200
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	119
354	6048	PLANE ASPH CONC PAV (3")	SY	24314
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	2200
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	65
110	6001	EXCAVATION (ROADWAY)	CY	58
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	164
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	62
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2200
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
216	6001	PROOF ROLLING	HR	1
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	244
* 3076	6066	TACK COAT	SY	732
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	24558
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	24558
* 3084	6001	BONDING COURSE	SY	24558
* 3085	6001	UNDERSEAL COURSE	SY	24558

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
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IH 35

ROADWAY PLAN SHEETS
STA 354+00 TO STA 376+00

SHEET 5 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	57

1 REVISED 02/22/2023

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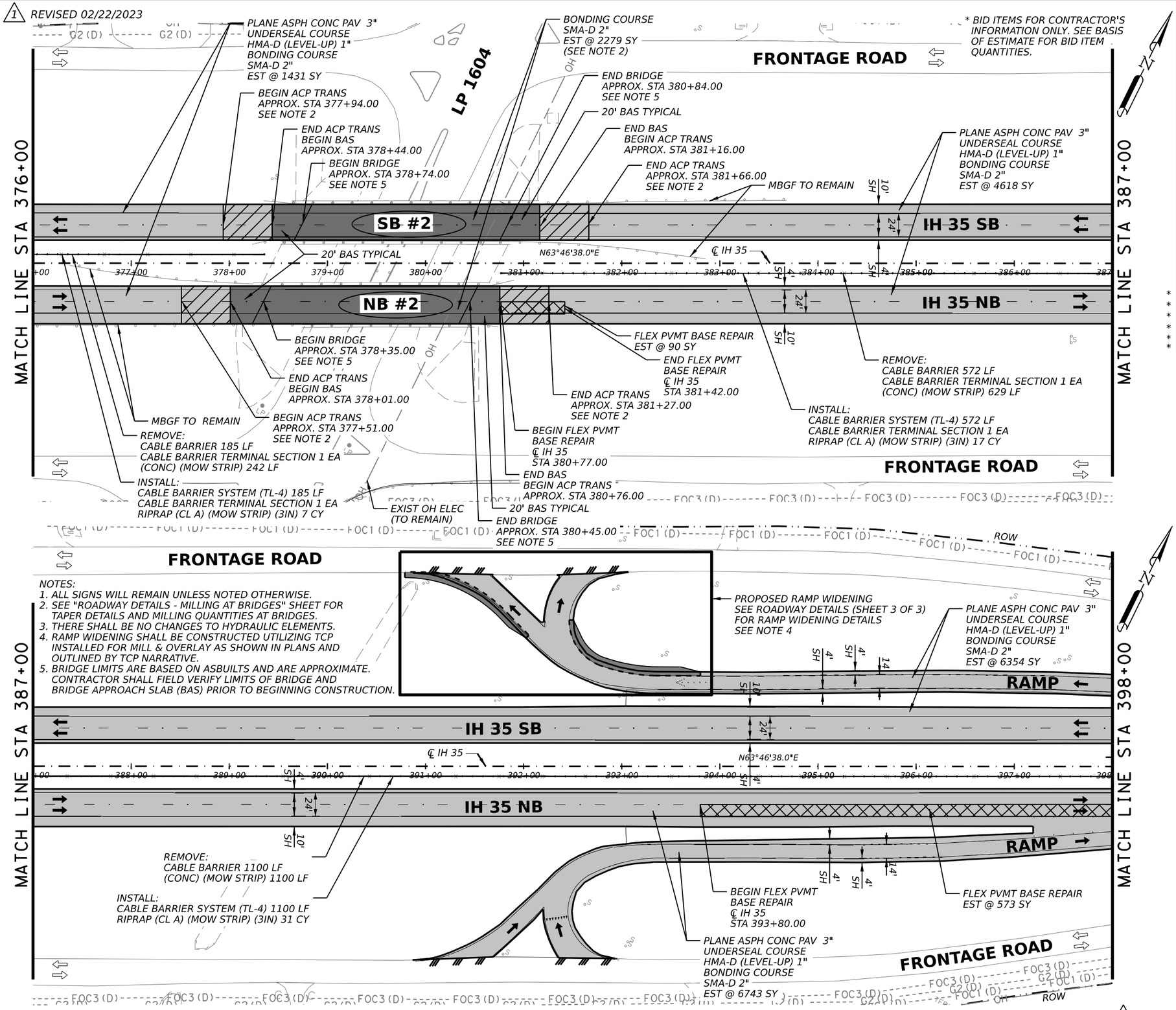
1 REVISED 02/22/2023



NOTES:
1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE "ROADWAY DETAILS - MILLING AT BRIDGES" SHEET FOR TAPER DETAILS AND MILLING QUANTITIES AT BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. RAMP WIDENING SHALL BE CONSTRUCTED UTILIZING TCP INSTALLED FOR MILL & OVERLAY AS SHOWN IN PLANS AND OUTLINED BY TCP NARRATIVE.
5. BRIDGE LIMITS ARE BASED ON ASBUILTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS OF BRIDGE AND BRIDGE APPROACH SLAB (BAS) PRIOR TO BEGINNING CONSTRUCTION.

QUANTITY SUMMARY CSJ 0017-03-068

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	1971
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	126
	354	6048	PLANE ASPH CONC PAV (3")	SY	19146
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	834
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	2279
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	1857
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	2
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	72
	110	6001	EXCAVATION (ROADWAY)	CY	66
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	663
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
	432	6005	RIPRAP (CONC) (CL A)	CY	56
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	1857
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2
	216	6001	PROOF ROLLING	HR	1
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	266
*	3076	6066	TACK COAT	SY	798
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	20246
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	22525
*	3084	6001	BONDING COURSE	SY	22525
*	3085	6001	UNDERSEAL COURSE	SY	20246

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
2023

IH 35

ROADWAY PLAN SHEETS
STA 376+00 TO STA 398+00

SHEET 6 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	58

1 REVISED 02/22/2023

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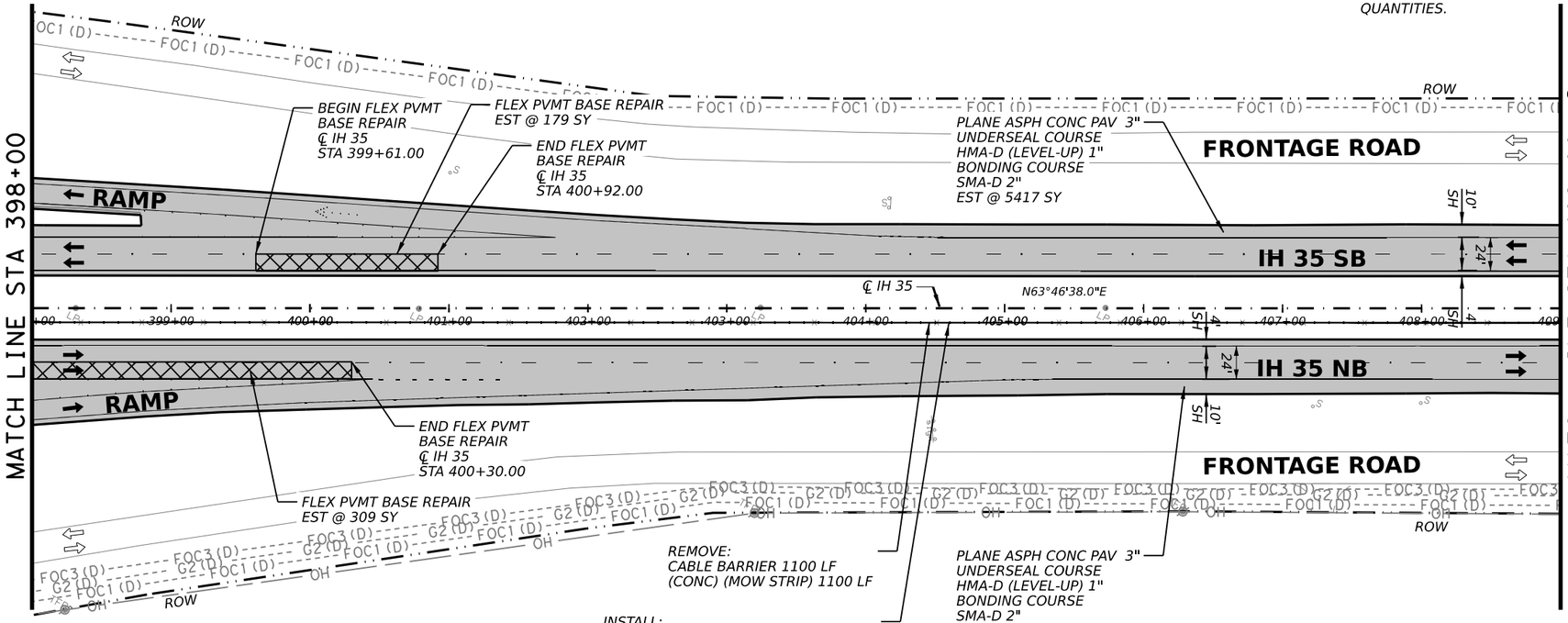

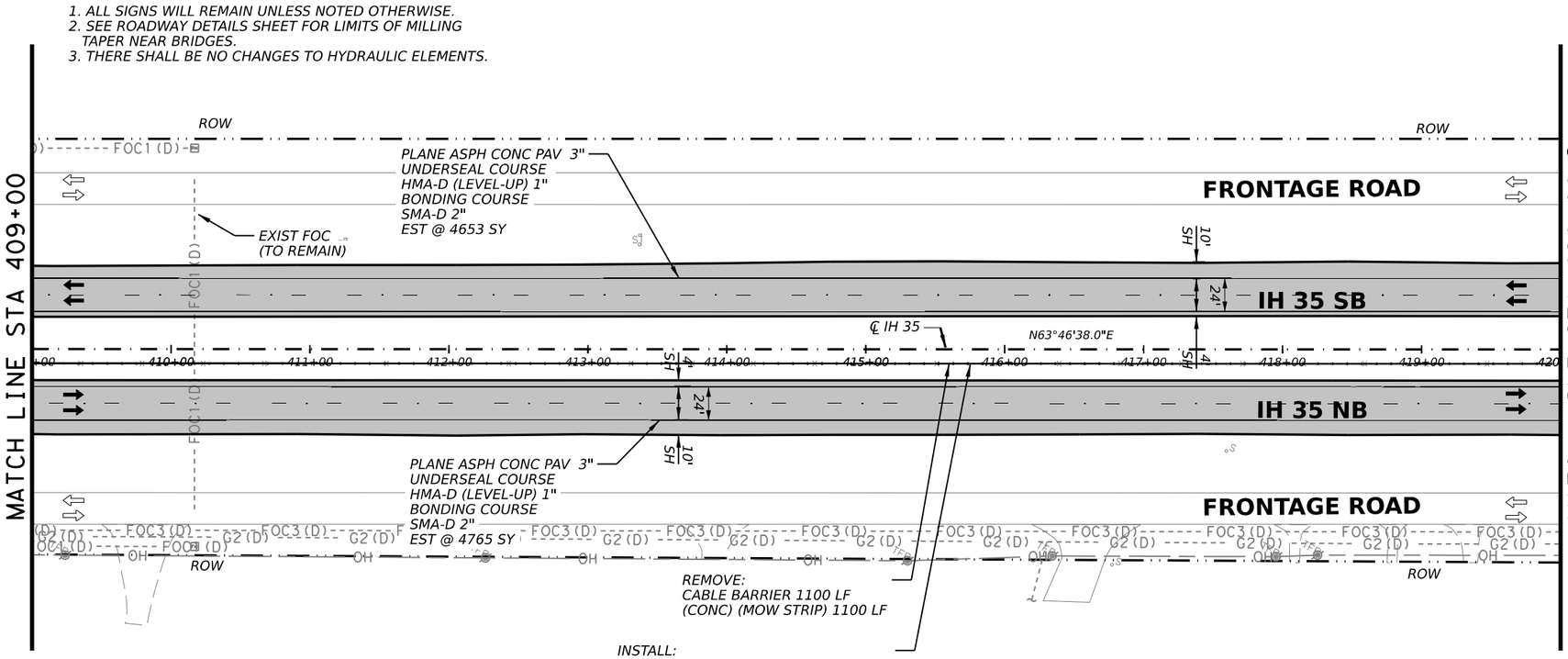

* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.

QUANTITY SUMMARY CSJ 0017-03-068

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2200
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	20246
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	2200
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	488
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
	432	6005	RIPRAP (CONC) (CL A)	CY	62
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2200
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	20246
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	20246
*	3084	6001	BONDING COURSE	SY	20246
*	3085	6001	UNDERSEAL COURSE	SY	20246

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
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Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35

ROADWAY PLAN SHEETS
STA 398+00 TO STA 420+00

SHEET 7 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	59

1 REVISED 02/22/2023

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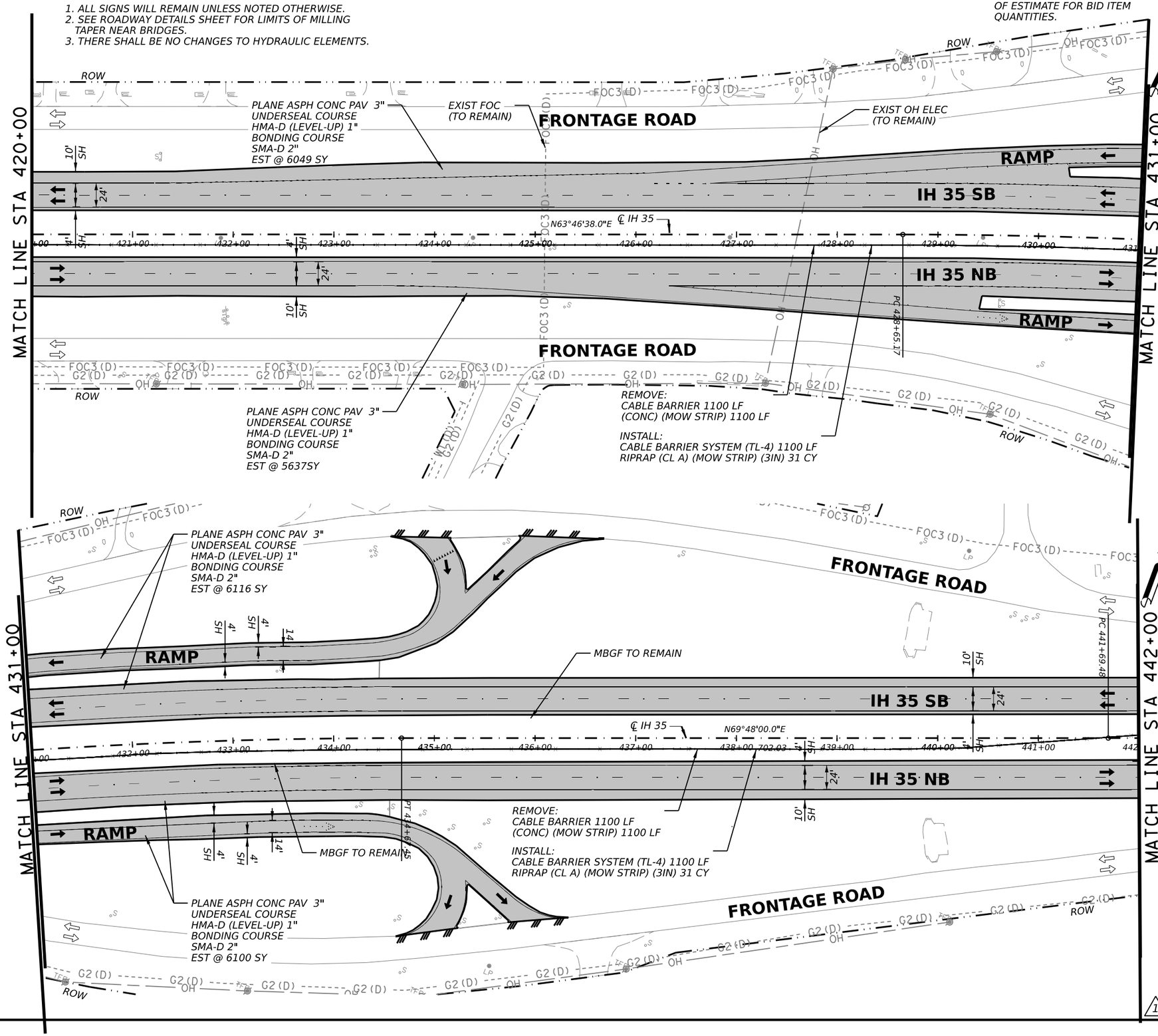
NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.



* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

QUANTITY SUMMARY CSJ 0017-03-068

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2222
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	23906
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	2222
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
	432	6005	RIPRAP (CONC) (CL A)	CY	62
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2222
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	23906
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	23906
*	3084	6001	BONDING COURSE	SY	23906
*	3085	6001	UNDERSEAL COURSE	SY	23906

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35

ROADWAY PLAN SHEETS
STA 420+00 TO STA 442+00

SHEET 8 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	60

1 REVISED 02/22/2023

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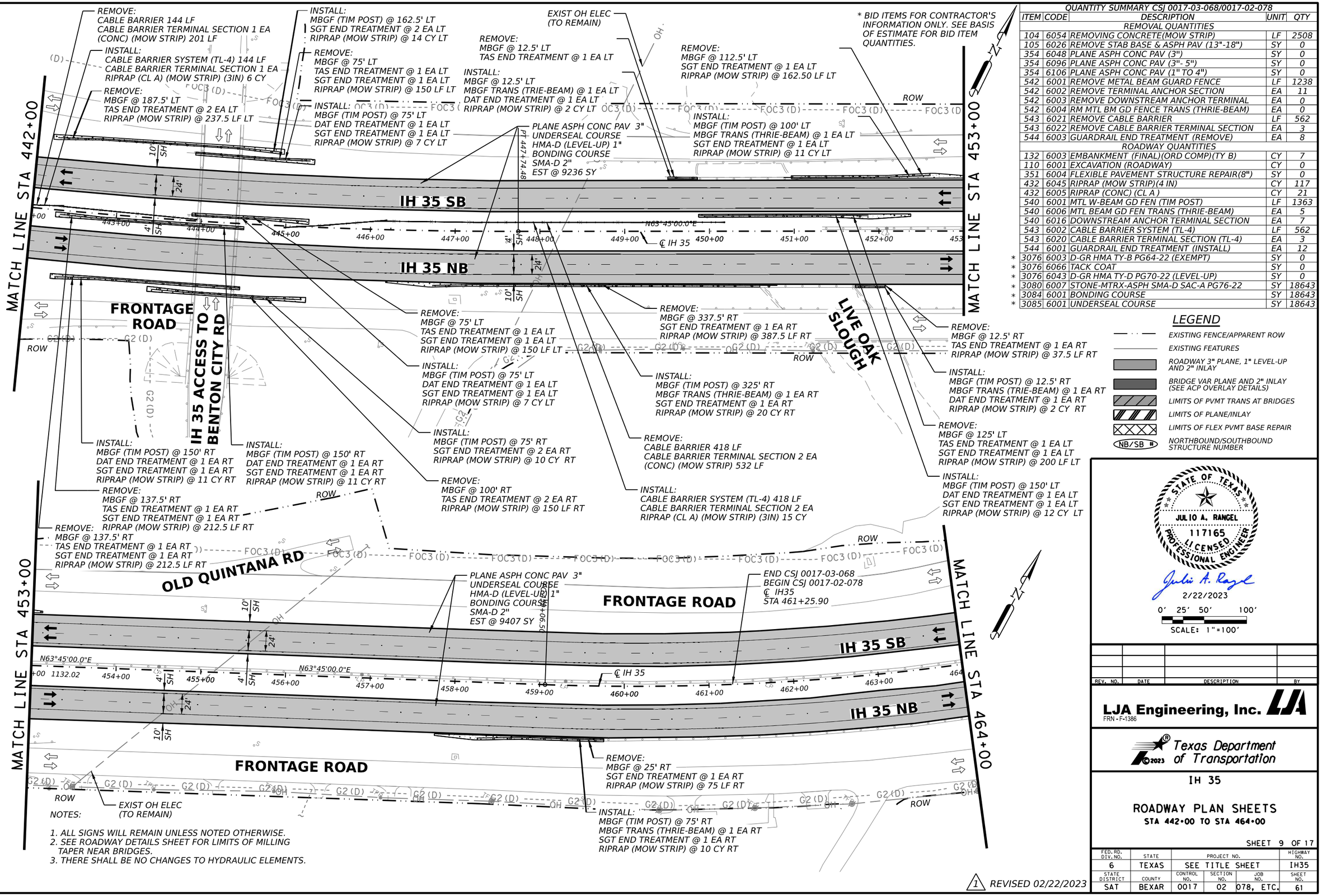

QUANTITY SUMMARY CSJ 0017-03-068/0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2508
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	0
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1238
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	11
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	562
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	3
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	8
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	7
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	117
	432	6005	RIPRAP (CONC) (CL A)	CY	21
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	1363
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	5
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	7
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	562
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	3
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	12
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	0
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	18643
*	3084	6001	BONDING COURSE	SY	18643
*	3085	6001	UNDERSEAL COURSE	SY	18643

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
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Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
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IH 35

ROADWAY PLAN SHEETS
STA 442+00 TO STA 464+00

SHEET 9 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	61

1 REVISED 02/22/2023

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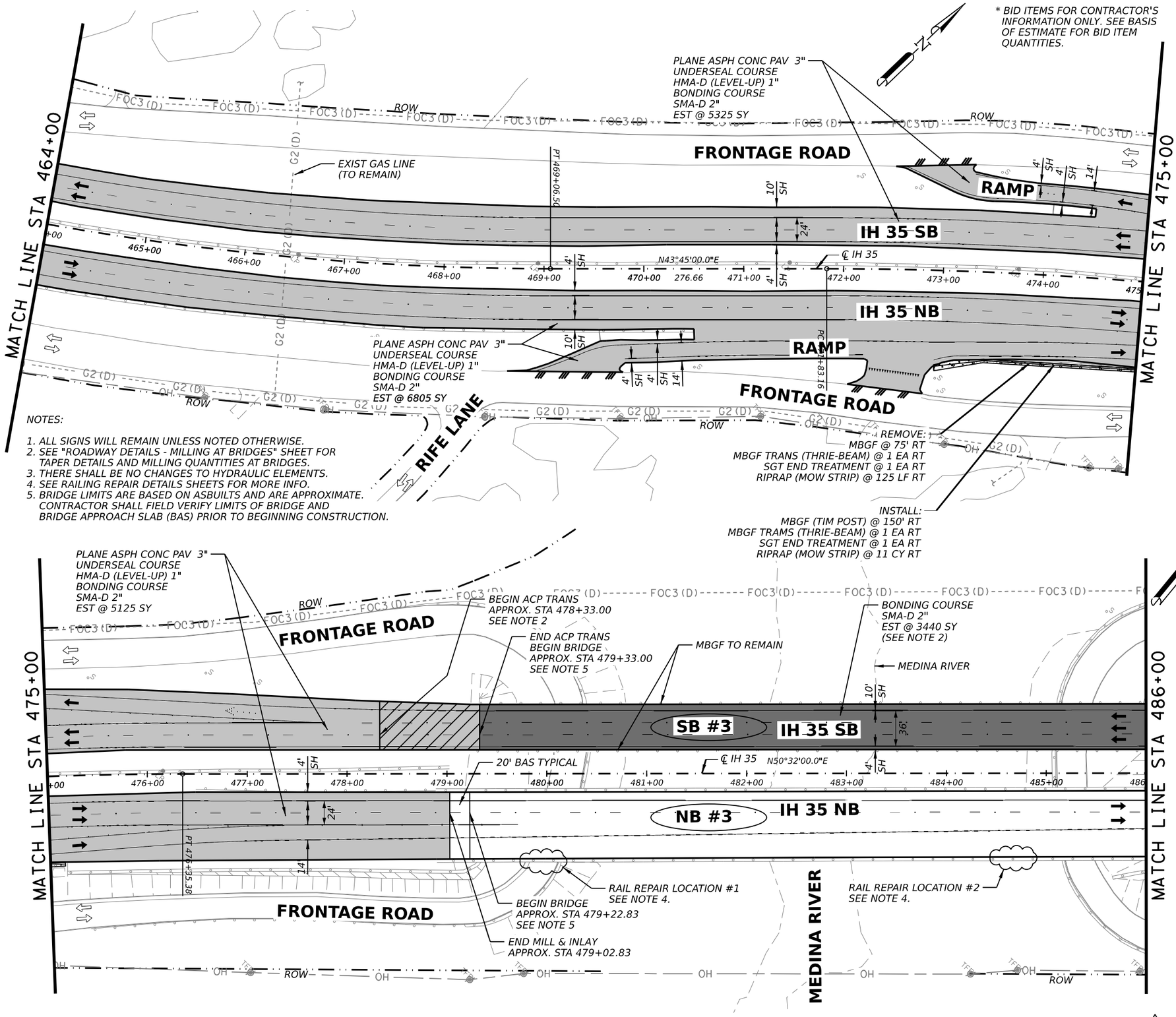

NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE "ROADWAY DETAILS - MILLING AT BRIDGES" SHEET FOR TAPER DETAILS AND MILLING QUANTITIES AT BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. SEE RAILING REPAIR DETAILS SHEETS FOR MORE INFO.
5. BRIDGE LIMITS ARE BASED ON ASBUILTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS OF BRIDGE AND BRIDGE APPROACH SLAB (BAS) PRIOR TO BEGINNING CONSTRUCTION.

QUANTITY SUMMARY CSJ 0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	125
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	17255
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	522
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	3373
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	75
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	1
	543	6021	REMOVE CABLE BARRIER	LF	0
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	1
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	11
	432	6005	RIPRAP (CONC) (CL A)	CY	0
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	150
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	0
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	17777
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	21150
*	3084	6001	BONDING COURSE	SY	21150
*	3085	6001	UNDERSEAL COURSE	SY	17777

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER

Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

1 REVISED 02/22/2023

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY PLAN SHEETS
STA 464+00 TO STA 486+00

SHEET 10 OF 17

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	62

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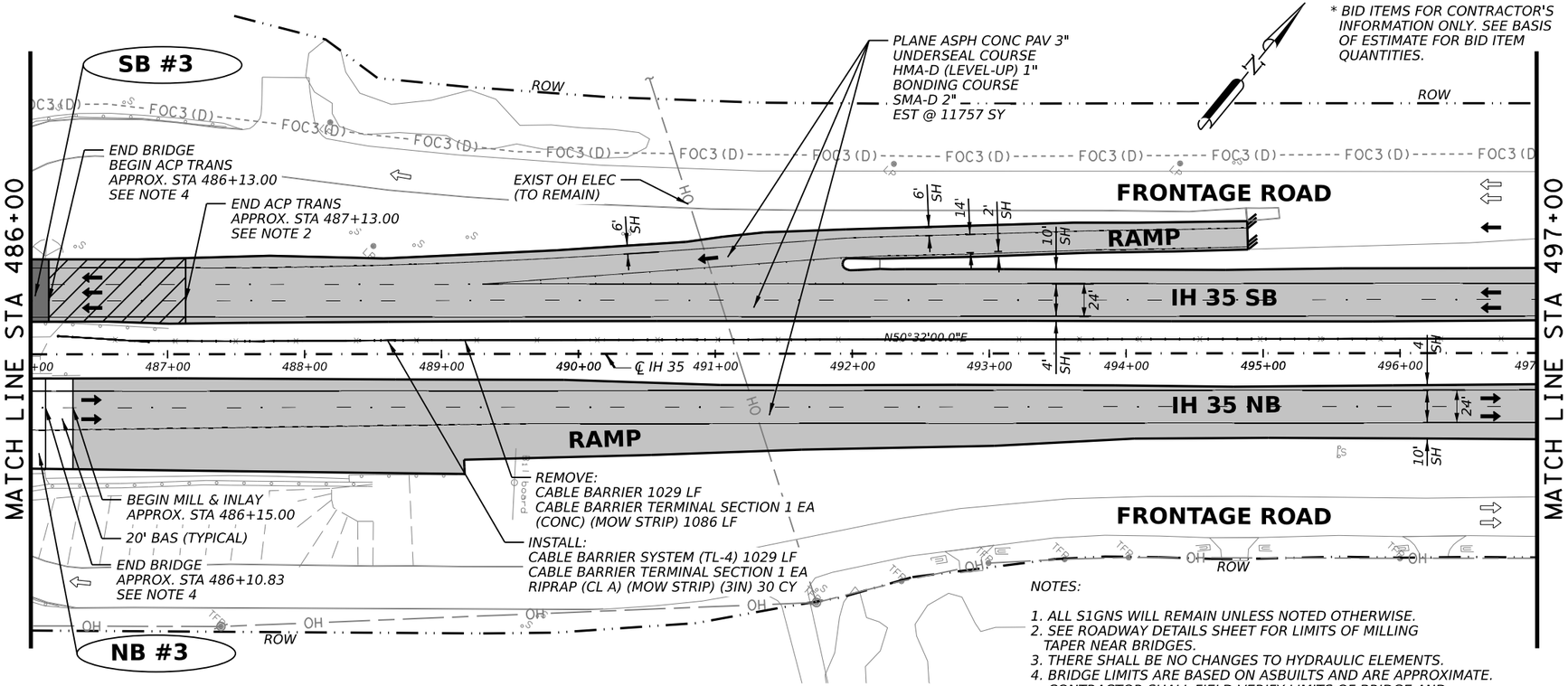
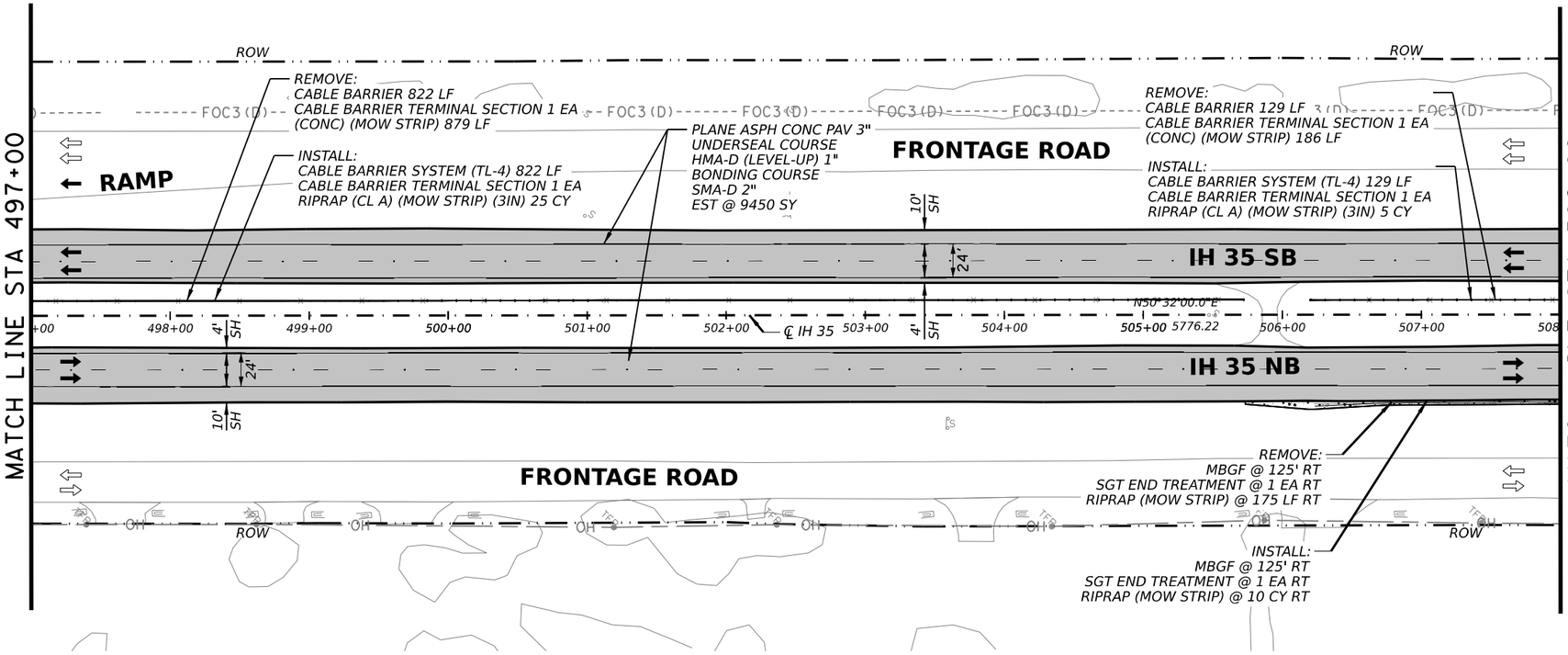


* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

NOTES:

1. ALL S1GNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. BRIDGE LIMITS ARE BASED ON ASBUILTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS OF BRIDGE AND BRIDGE APPROACH SLAB (BAS) PRIOR TO BEGINNING CONSTRUCTION.



QUANTITY SUMMARY CSJ 0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2316
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	21207
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	513
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	67
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	125
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	1970
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	3
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	1
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	1
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	10
	432	6005	RIPRAP (CONC) (CL A)	CY	60
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	125
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	1970
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	3
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	21720
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	21787
*	3084	6001	BONDING COURSE	SY	21787
*	3085	6001	UNDERSEAL COURSE	SY	21720

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
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IH 35

ROADWAY PLAN SHEETS
STA 486+00 TO STA 508+00

SHEET 11 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	63

1 REVISED 02/22/2023

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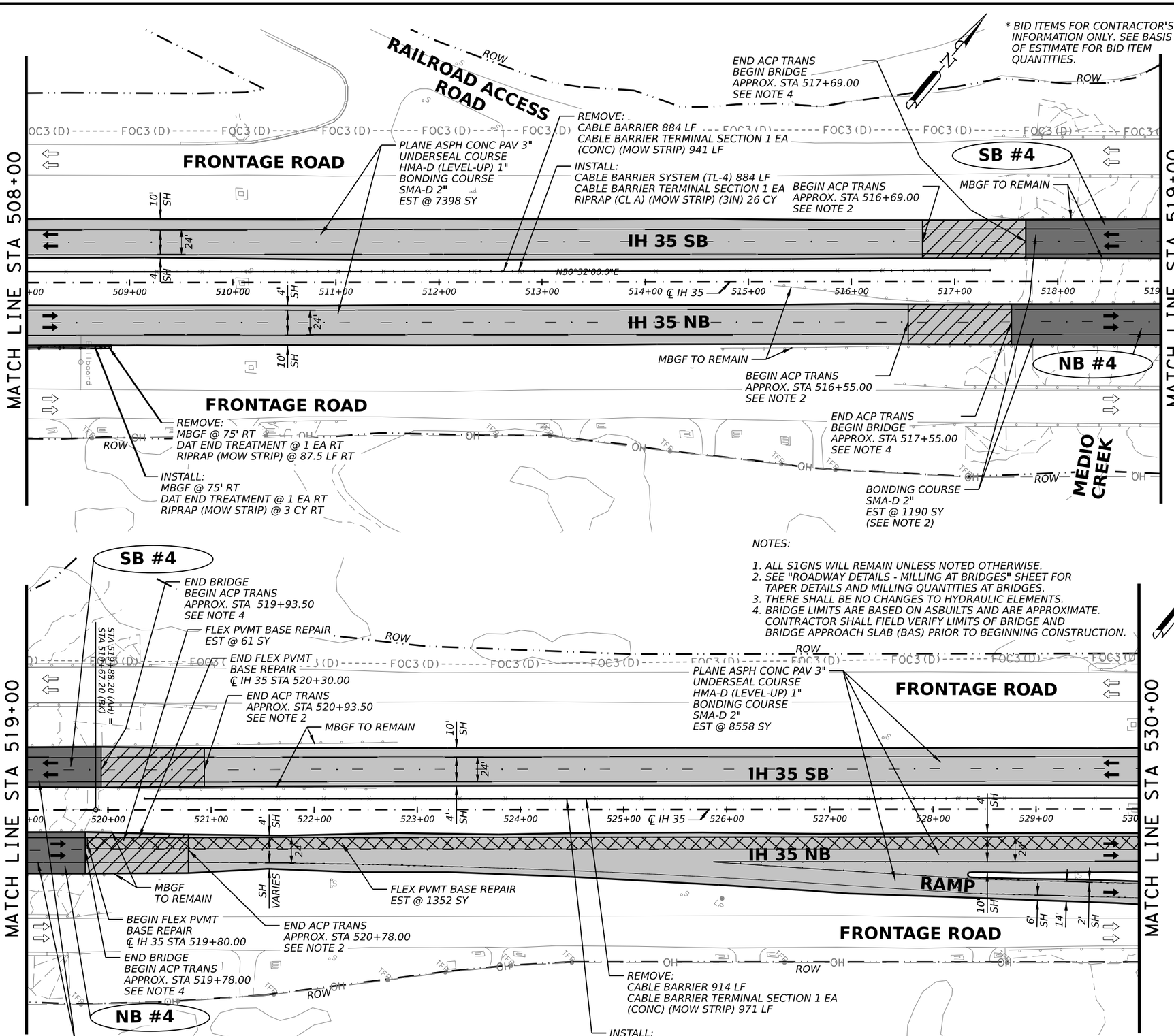

NOTES:

1. ALL S1GNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE "ROADWAY DETAILS - MILLING AT BRIDGES" SHEET FOR TAPER DETAILS AND MILLING QUANTITIES AT BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. BRIDGE LIMITS ARE BASED ON ASBUILTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS OF BRIDGE AND BRIDGE APPROACH SLAB (BAS) PRIOR TO BEGINNING CONSTRUCTION.

QUANTITY SUMMARY CSJ 0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2037
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	15956
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	1704
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	1757
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	75
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	1
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	1798
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	2
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	1
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	1352
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	3
	432	6005	RIPRAP (CONC) (CL A)	CY	53
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	75
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	1
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	1798
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	17660
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	19417
*	3084	6001	BONDING COURSE	SY	19417
*	3085	6001	UNDERSEAL COURSE	SY	17660

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

1 REVISED 02/22/2023

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY PLAN SHEETS
STA 508+00 TO STA 530+00

SHEET 12 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	64

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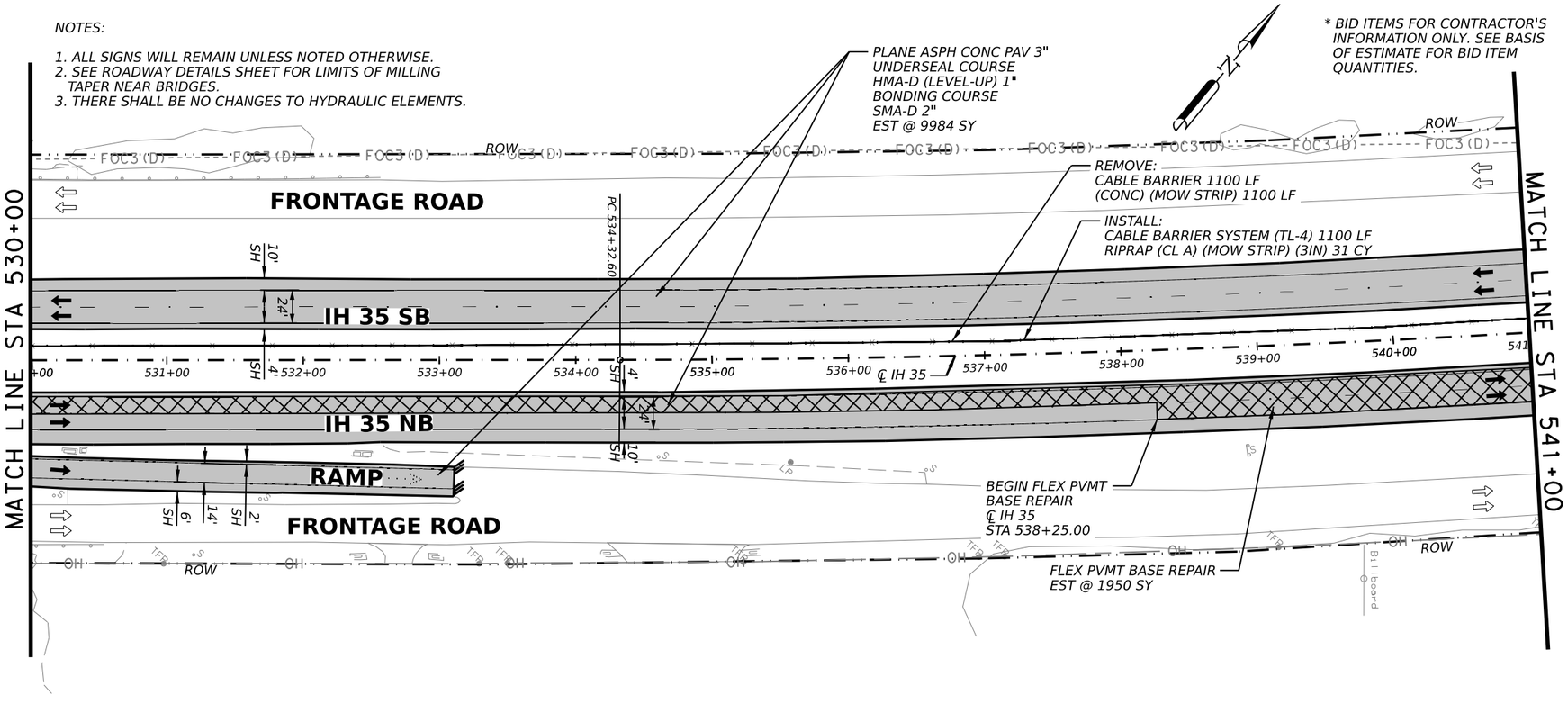
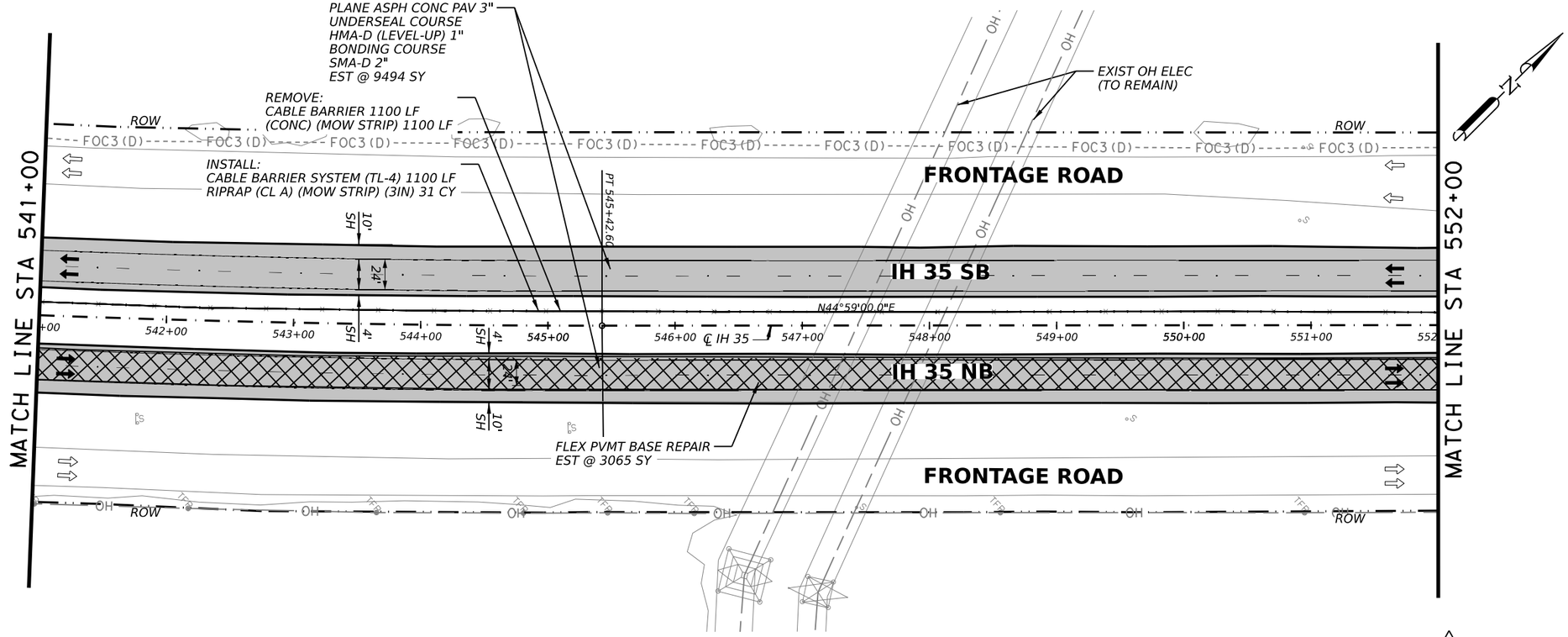
NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.



* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.



QUANTITY SUMMARY CSJ 0017-02-078				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2200
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	19478
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	2200
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	5015
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	62
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2200
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
*	3076	6003 D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066 TACK COAT	SY	0
*	3076	6043 D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	19478
*	3080	6007 STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	19478
*	3084	6001 BONDING COURSE	SY	19478
*	3085	6001 UNDERSEAL COURSE	SY	19478

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY PLAN SHEETS
STA 530+00 TO STA 552+00

SHEET 13 OF 17

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	65

1 REVISED 02/22/2023

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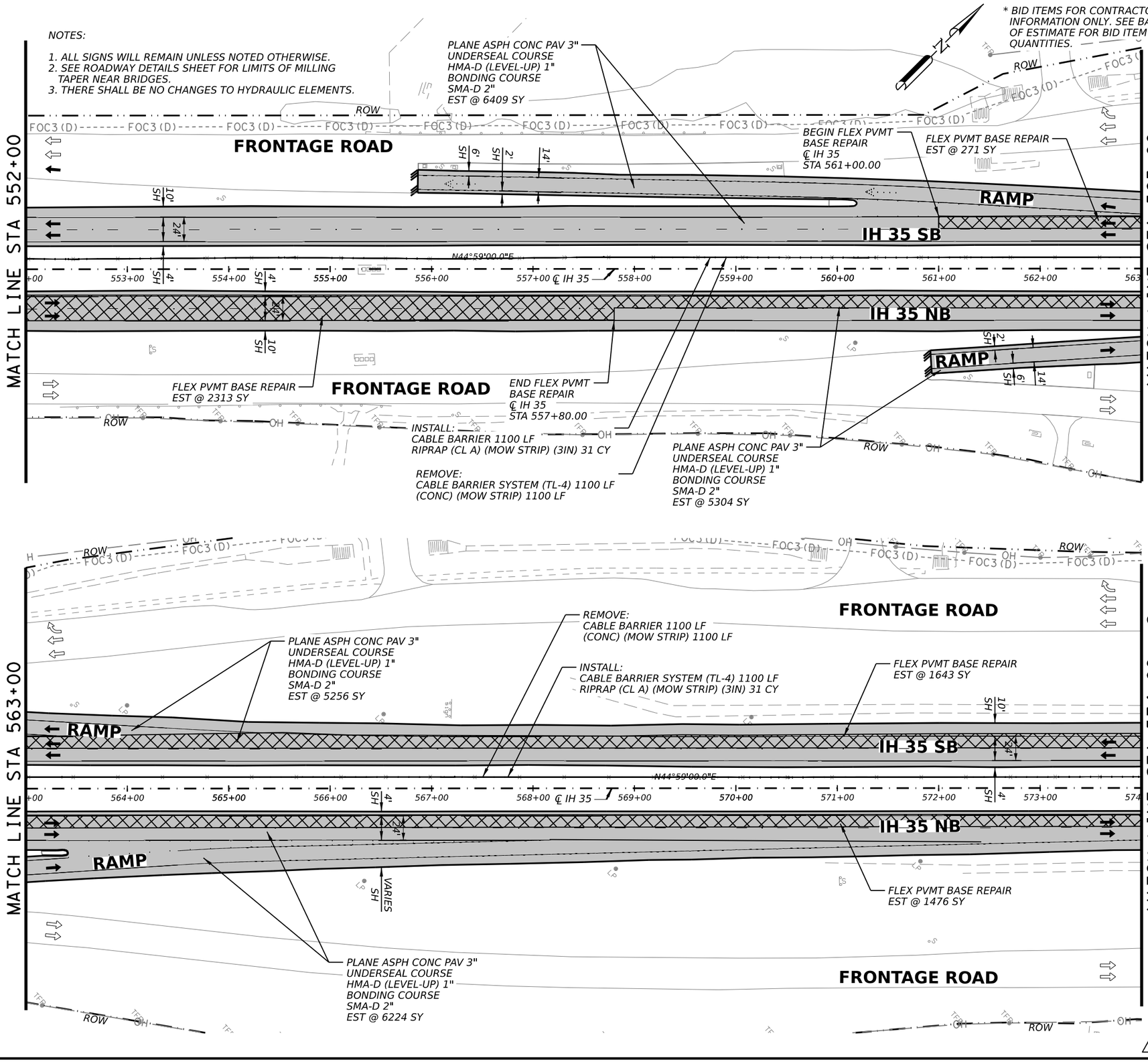
NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.



* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

	QUANTITY SUMMARY CSJ 0017-02-078			
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2200
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	23193
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	0
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	0
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	2200
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	0
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	0
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	0
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	5703
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	0
432	6005	RIPRAP (CONC) (CL A)	CY	62
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	0
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2200
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	0
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
* 3076	6066	TACK COAT	SY	0
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	23193
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	23193
* 3084	6001	BONDING COURSE	SY	23193
* 3085	6001	UNDERSEAL COURSE	SY	23193

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
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- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
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117165
LICENSED
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Julio A. Rangel
2/22/2023

0' 25' 50' 100'
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REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35

ROADWAY PLAN SHEETS
STA 552+00 TO STA 574+00

SHEET 14 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	66

1 REVISED 02/22/2023

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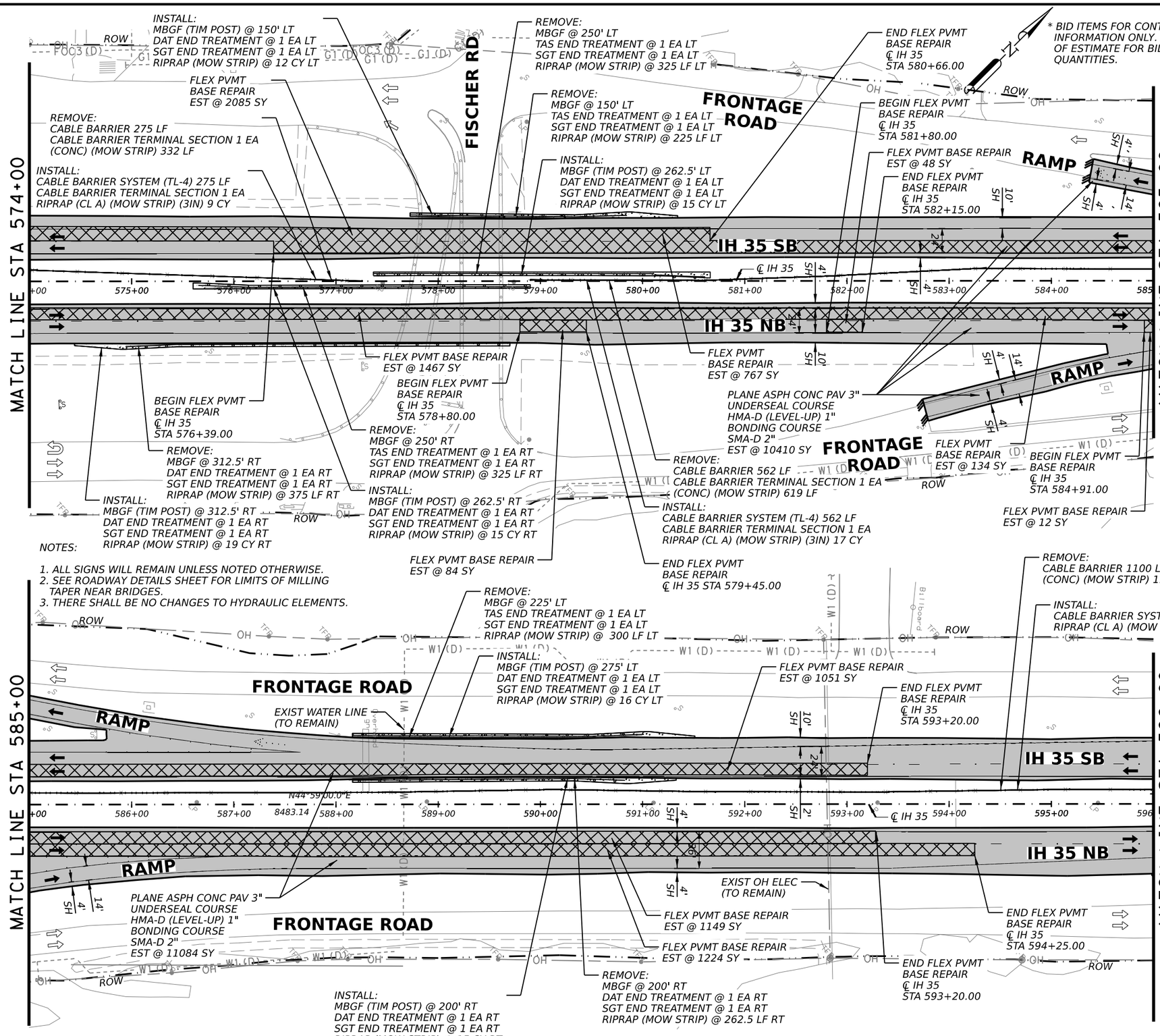

NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.

QUANTITY SUMMARY CSJ 0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	3701
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	21494
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	1350
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	4
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	2
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	1937
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	2
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	6
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	6
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	5653
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	92
	432	6005	RIPRAP (CONC) (CL A)	CY	57
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	1463
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	6
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	1937
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	6
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	21494
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	21494
*	3084	6001	BONDING COURSE	SY	21494
*	3085	6001	UNDERSEAL COURSE	SY	21494

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
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- LIMITS OF PVMT TRANS AT BRIDGES
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PROFESSIONAL ENGINEER
Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY
1	02/22/2023	REVISED	

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35

ROADWAY PLAN SHEETS
STA 574+00 TO STA 596+00

SHEET 15 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	67

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NOTES:
1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE "ROADWAY DETAILS - MILLING AT BRIDGES" SHEET FOR TAPER DETAILS AND MILLING QUANTITIES AT BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. SEE CAP REPAIR DETAILS SHEET FOR MORE INFO.
5. CONTRACTOR SHALL UTILIZE RAMP DETOURS WHEN CONSTRUCTING MILL & INLAY AT RAMPS. SEE TCP DETOUR DIAGRAMS FOR MORE INFORMATION.
6. BRIDGE LIMITS ARE BASED ON ASBUILTS AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LIMITS OF BRIDGE AND BRIDGE APPROACH SLAB (BAS) PRIOR TO BEGINNING CONSTRUCTION.

* BID ITEMS FOR CONTRACTOR'S INFORMATION ONLY. SEE BASIS OF ESTIMATE FOR BID ITEM QUANTITIES.

MATCH LINE STA 596+00

MATCH LINE STA 607+00

MATCH LINE STA 607+00

MATCH LINE STA 618+00

FRONTAGE ROAD

RAMP

IH 35 SB

IH 35 NB

RAMP

FRONTAGE ROAD

SB #5

NB #5

FRONTAGE ROAD

SW LOOP 410

℄ IH 35

N44°59'00.0"E

EXIST FOC (TO REMAIN)

SEE NOTE 5

PLANE ASPH CONC PAV 3" UNDERSEAL COURSE HMA-D (LEVEL-UP) 1" BONDING COURSE SMA-D 2" EST @ 9393 SY

REMOVE: CABLE BARRIER 1100 LF (CONC) (MOW STRIP) 1100 LF

INSTALL: CABLE BARRIER SYSTEM (TL-4) 1100 LF RIPRAP (CL A) (MOW STRIP) (3IN) 31 CY

REMOVE: MBGF @ 137.5' RT TAS END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 187.5 LF RT

INSTALL: MBGF (TIM POST) @ 225' RT DAT END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 13 CY RT

REMOVE: MBGF @ 125' RT TAS END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 175LF RT

INSTALL: MBGF (TIM POST) @ 125' RT DAT END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 14 CY RT

REMOVE: MBGF @ 187.5' RT TAS END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 237.5 LF RT

INSTALL: MBGF (TIM POST) @ 187.5' RT DAT END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 15 CY RT

REMOVE: MBGF @ 187.5' RT TAS END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 237.5 LF RT

INSTALL: MBGF (TIM POST) @ 187.5' RT DAT END TREATMENT @ 1 EA RT SGT END TREATMENT @ 1 EA RT RIPRAP (MOW STRIP) @ 15 CY RT

INSTALL: CABLE BARRIER SYSTEM (TL-4) 390 LF CABLE BARRIER TERMINAL SECTION 1 EA RIPRAP (CL A) (MOW STRIP) (3IN) 13 CY

REMOVE: CABLE BARRIER 390 LF CABLE BARRIER TERMINAL SECTION 1 EA (CONC) (MOW STRIP) 447 LF

PLANE ASPH CONC PAV 3" UNDERSEAL COURSE HMA-D (LEVEL-UP) 1" BONDING COURSE SMA-D 2" EST @ 3294 SY

END ACP TRANS BEGIN BAS APPROX. STA 611+11.00

BEGIN BRIDGE APPROX. STA 611+43.00 SEE NOTE 6

MBGF TO REMAIN

20' BAS TYPICAL

BEGIN ACP TRANS APPROX. STA 610+61.00 SEE NOTE 2

BEGIN ACP TRANS APPROX. STA 610+99.00 SEE NOTE 2

END ACP TRANS BEGIN BAS APPROX. STA 611+49.00

BEGIN BRIDGE APPROX. STA 611+79.00 SEE NOTE 6

CAP REPAIR LOCATION #2 SEE NOTE 4.

CAP REPAIR LOCATION #1 SEE NOTE 4.

MBGF TO REMAIN

END BRIDGE APPROX. STA 615+04.00 SEE NOTE 6

20' BAS TYPICAL

BONDING COURSE SMA-D 2" EST @ 3105 SY (SEE NOTE 2)

END BRIDGE APPROX. STA 614+68.00 SEE NOTE 6

20' BAS TYPICAL

END BAS BEGIN ACP TRANS APPROX. STA 614+94.00

END ACP TRANS APPROX. STA 615+48.00 SEE NOTE 2

PLANE ASPH CONC PAV 3" UNDERSEAL COURSE HMA-D (LEVEL-UP) 1" BONDING COURSE SMA-D 2" EST @ 2173 SY

END ACP TRANS APPROX. STA 615+85.00 SEE NOTE 2

END BAS BEGIN ACP TRANS APPROX. STA 615+35.00

INSTALL: CABLE BARRIER SYSTEM (TL-4) 239 LF CABLE BARRIER TERMINAL SECTION 1 EA RIPRAP (CL A) (MOW STRIP) (3IN) 8 CY

REMOVE: CABLE BARRIER 239 LF CABLE BARRIER TERMINAL SECTION 1 EA (CONC) (MOW STRIP) 296 LF

1 REVISED 02/22/2023

QUANTITY SUMMARY CSJ 0017-02-078

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			REMOVAL QUANTITIES		
	104	6054	REMOVING CONCRETE(MOW STRIP)	LF	2618
	105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
	354	6048	PLANE ASPH CONC PAV (3")	SY	14860
	354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	885
	354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	3295
	542	6001	REMOVE METAL BEAM GUARD FENCE	LF	575
	542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	4
	542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	0
	542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
	543	6021	REMOVE CABLE BARRIER	LF	1729
	543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	2
	544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	4
			ROADWAY QUANTITIES		
	132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	2
	110	6001	EXCAVATION (ROADWAY)	CY	0
	351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	0
	432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	57
	432	6005	RIPRAP (CONC) (CL A)	CY	52
	540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	725
	540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
	540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	4
	543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	1729
	543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2
	544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	4
*	3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
*	3076	6066	TACK COAT	SY	0
*	3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	15745
*	3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	19040
*	3084	6001	BONDING COURSE	SY	19040
*	3085	6001	UNDERSEAL COURSE	SY	15745

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER

Julio A. Rangel
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35

ROADWAY PLAN SHEETS
STA 596+00 TO STA 618+00

SHEET 16 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	68

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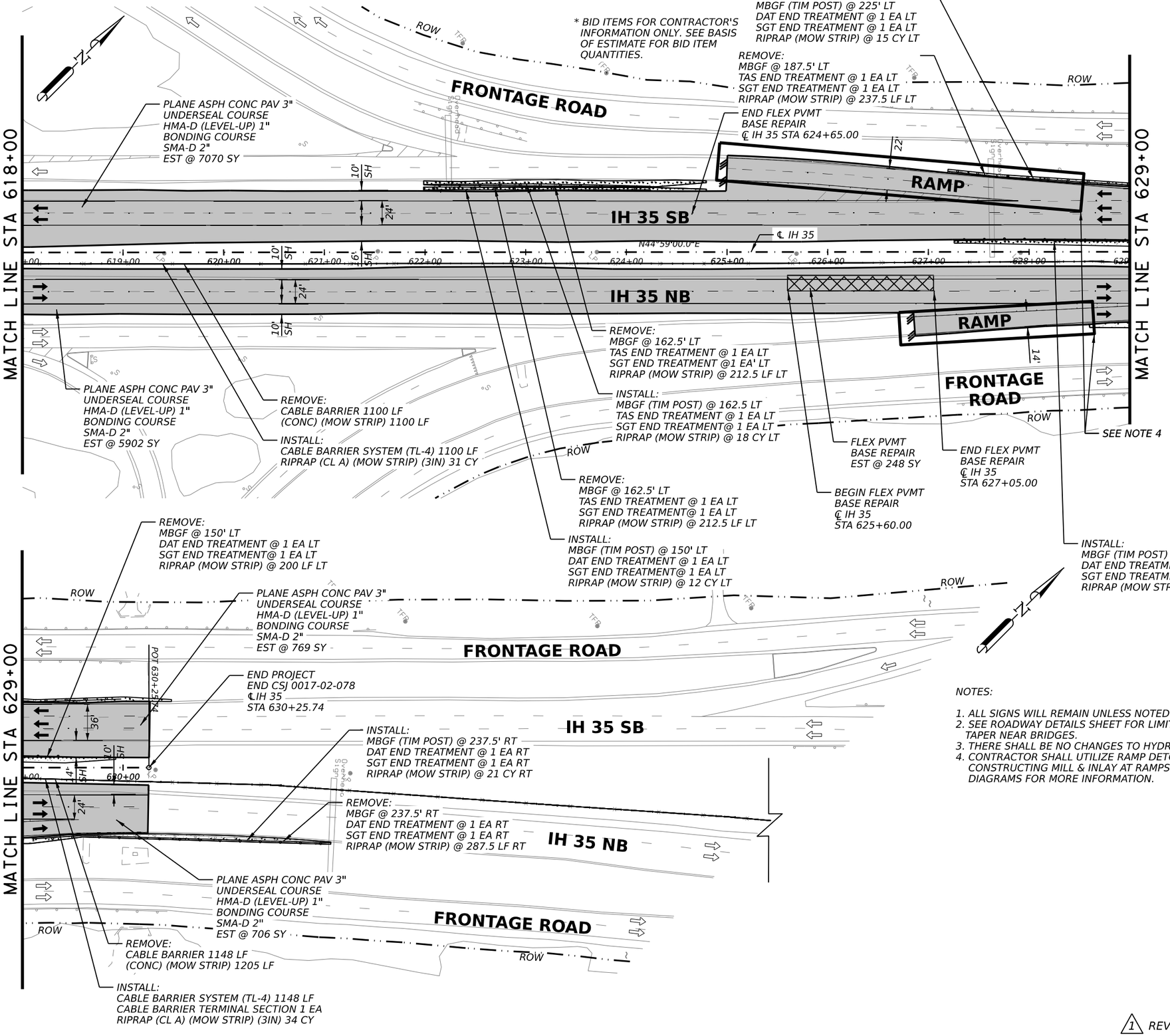

QUANTITY SUMMARY CSJ 0017-02-078				
ITEM	CODE	DESCRIPTION	UNIT	QTY
		REMOVAL QUANTITIES		
104	6054	REMOVING CONCRETE(MOW STRIP)	LF	3455
105	6026	REMOVE STAB BASE & ASPH PAV (13"-18")	SY	0
354	6048	PLANE ASPH CONC PAV (3")	SY	14445
354	6096	PLANE ASPH CONC PAV (3"- 5")	SY	0
354	6106	PLANE ASPH CONC PAV (1" TO 4")	SY	0
542	6001	REMOVE METAL BEAM GUARD FENCE	LF	900
542	6002	REMOVE TERMINAL ANCHOR SECTION	EA	3
542	6003	REMOVE DOWNSTREAM ANCHOR TERMINAL	EA	3
542	6004	RM MTL BM GD FENCE TRANS (THRIE-BEAM)	EA	0
543	6021	REMOVE CABLE BARRIER	LF	2248
543	6022	REMOVE CABLE BARRIER TERMINAL SECTION	EA	1
544	6003	GUARDRAIL END TREATMENT (REMOVE)	EA	4
		ROADWAY QUANTITIES		
132	6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	3
110	6001	EXCAVATION (ROADWAY)	CY	0
351	6004	FLEXIBLE PAVEMENT STRUCTURE REPAIR(8")	SY	248
432	6045	RIPRAP (MOW STRIP)(4 IN)	CY	82
432	6005	RIPRAP (CONC) (CL A)	CY	65
540	6001	MTL W-BEAM GD FEN (TIM POST)	LF	925
540	6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540	6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	6
543	6002	CABLE BARRIER SYSTEM (TL-4)	LF	2248
543	6020	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	1
544	6001	GUARDRAIL END TREATMENT (INSTALL)	EA	4
* 3076	6003	D-GR HMA TY-B PG64-22 (EXEMPT)	SY	0
* 3076	6066	TACK COAT	SY	0
* 3076	6043	D-GR HMA TY-D PG70-22 (LEVEL-UP)	SY	14445
* 3080	6007	STONE-MTRX-ASPH SMA-D SAC-A PG76-22	SY	14445
* 3084	6001	BONDING COURSE	SY	14445
* 3085	6001	UNDERSEAL COURSE	SY	14445

LEGEND

- EXISTING FENCE/APPARENT ROW
- EXISTING FEATURES
- ROADWAY 3" PLANE, 1" LEVEL-UP AND 2" INLAY
- BRIDGE VAR PLANE AND 2" INLAY (SEE ACP OVERLAY DETAILS)
- LIMITS OF PVMT TRANS AT BRIDGES
- LIMITS OF PLANE/INLAY
- LIMITS OF FLEX PVMT BASE REPAIR
- NB/SB # — NORTHBOUND/SOUTHBOUND STRUCTURE NUMBER

NOTES:

1. ALL SIGNS WILL REMAIN UNLESS NOTED OTHERWISE.
2. SEE ROADWAY DETAILS SHEET FOR LIMITS OF MILLING TAPER NEAR BRIDGES.
3. THERE SHALL BE NO CHANGES TO HYDRAULIC ELEMENTS.
4. CONTRACTOR SHALL UTILIZE RAMP DETOURS WHEN CONSTRUCTING MILL & INLAY AT RAMPS. SEE TCP DETOUR DIAGRAMS FOR MORE INFORMATION.

1 REVISED 02/22/2023

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED PROFESSIONAL ENGINEER
2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
©2023

IH 35

ROADWAY PLAN SHEETS
STA 618+00 TO END

SHEET 17 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	69

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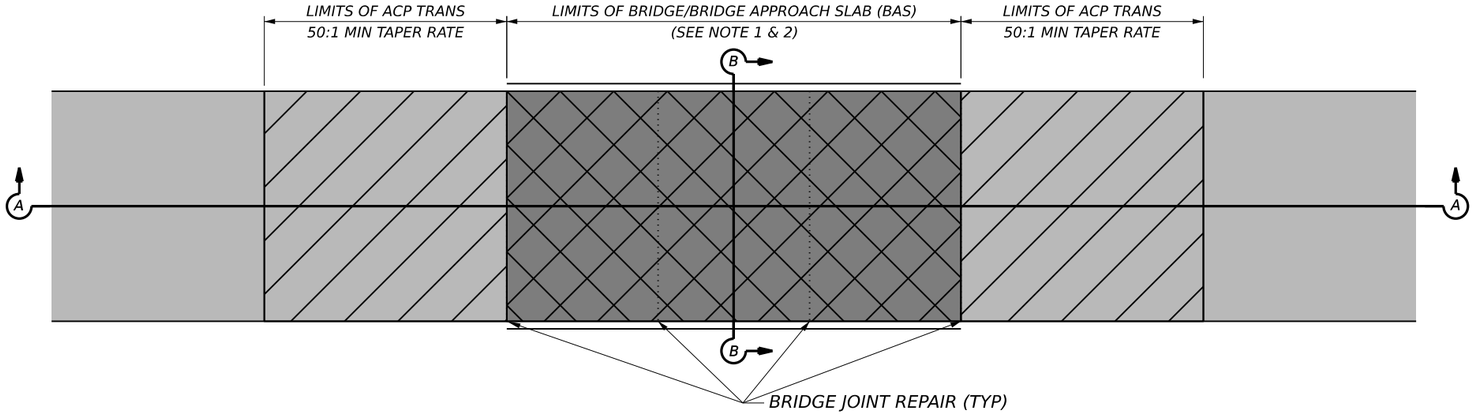
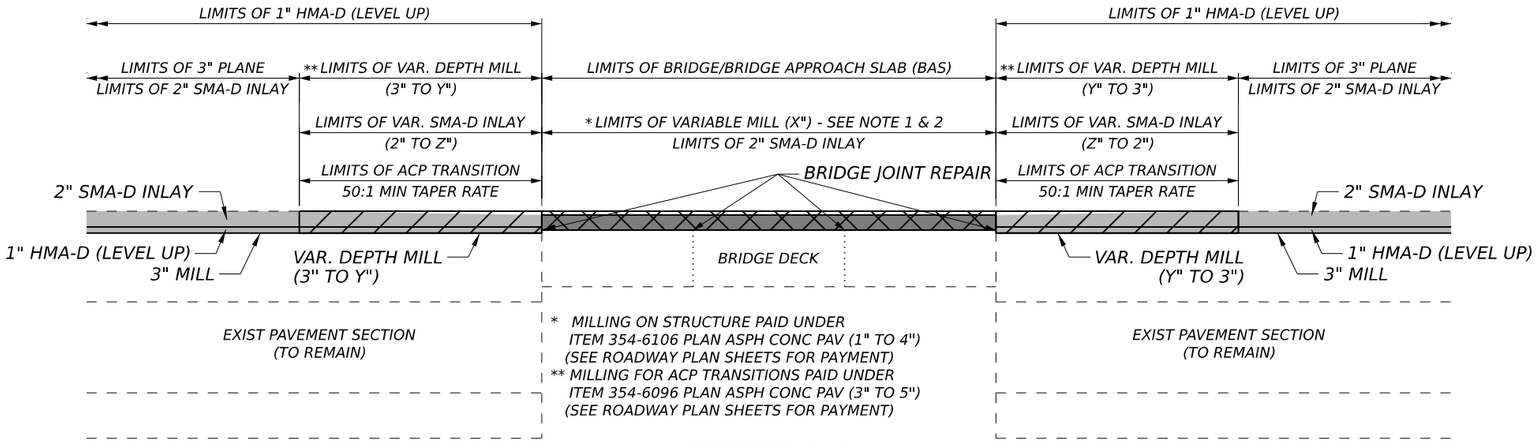


PLAN VIEW

N.T.S.

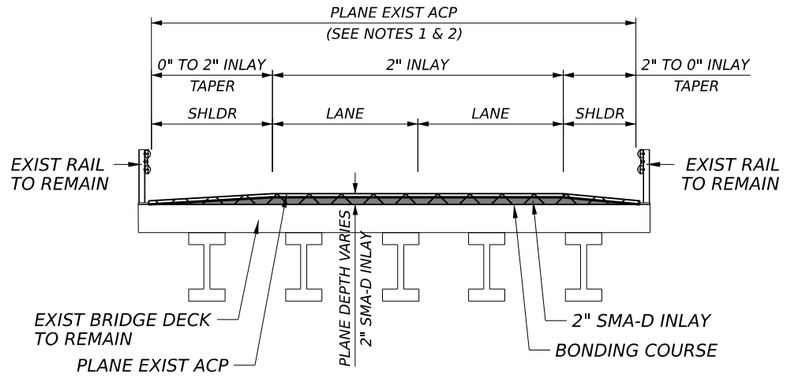


* MILLING ON STRUCTURE PAID UNDER ITEM 354-6106 PLAN ASPH CONC PAV (1" TO 4") (SEE ROADWAY PLAN SHEETS FOR PAYMENT)

** MILLING FOR ACP TRANSITIONS PAID UNDER ITEM 354-6096 PLAN ASPH CONC PAV (3" TO 5") (SEE ROADWAY PLAN SHEETS FOR PAYMENT)

SECTION A-A

N.T.S.



SECTION B-B

N.T.S.

NOTES:

1. THE EXIST ASPHALT OVERLAY ON THE BRIDGE DECK IS BASED ON PAVEMENT CORES IN SELECT AREAS AND ACTUAL ASPHALT OVERLAY THICKNESS MAY VARY THROUGHOUT STRUCTURE. THE DESIGN INTENT IS TO MILL ALL OVERLAY FROM EXIST STRUCTURE AND REPLACE WITH 2" SMA-D OVERLAY. CONTRACTOR SHALL ADJUST MILLING DEPTH IF EXIST OVERLAY IS THICKER AND SHALL ADJUST ACP TRANSITION AT A RATE OF 50' PER 1" OVERLAY REDUCTION.
2. OVERLAY ON CONCRETE DECK SHALL CONSIST OF 2" SMA-D SAC-A PG 76-22 AND BONDING COURSE. SEE ROADWAY PLAN SHEETS FOR QUANTITIES AND PAYMENT.
3. DO NOT SAWCUT INTO THE CONCRETE DECK WHILE REMOVING ASPHALT TO REPAIR BRIDGE JOINTS.
4. SEE ROADWAY PLAN SHEETS FOR BRIDGES WITH EXIST BRIDGE APPROACH SLABS (BAS). CONTRACTOR SHALL FIELD VERIFY LIMITS OF BAS AND ADJUST ACP TRANS TO END/BEGIN AT THE BAS.

1 REVISED 02/22/2023

SUMMARY OF PLANING DEPTH/TAPER AT STRUCTURES

NBI #	STRUCTURE	CROSSING	APPROX. EXIST ACP DEPTH ON STRUCTURE	VARIABLE DEPTH MILL ON STRUCTURE "X"	VARIABLE DEPTH MILL FOR TRANSITION "Y"	VARIABLE DEPTH SMA-D INLAY FOR TRANSITION "Z"	FINAL OVERLAY DEPTH ON STRUCTURE	PLANE TAPER LENGTH @ BEGIN/END BRIDGE			MILLING & BRIDGE WORK	
									** ITEM	* ITEM	ITEM	ITEM
									354-6096	354-6106	438-6005	454-6008
									SY	SY	LF	CF
									PLANE ASPH CONC PAV (3" TO 5")	PLANE ASPH CONC PAV (1" TO 4")	CLEAN & SEAL JOINTS	HEADER TYPE EXPANSION JOINT
15-015-0-0017-03-276	SB #1	KINNEY RD	1.25" - 1.75"	1.25" - 1.75"	3"	2.75"	2"	50'	430	774	164	39.9
15-015-0-0017-03-275	NB #1	KINNEY RD	1.75" - 2"	1.75" - 2"	3"	2.25"	2"	50'	427	767	164	39.9
15-015-0-0017-03-274	SB #2	LP 1604	1.75" - 2"	1.75" - 2"	3"	2.25"	2"	50'	406	1105	230	55.9
15-015-0-0017-03-273	NB #2	LP 1604	1.75" - 2.25"	1.75" - 2.25"	3"	2.25"	2"	50'	428	1174	230	55.9
15-015-0-0017-02-101	SB #3	MEDIAN RIVER	2.75" - 3.25"	2.75" - 3.25"	4.25"	2"	2"	100'	1035	3440	164	39.9
15-015-0-0017-02-388	NB #3	MEDIAN RIVER	NO OVERLAY PRESENT									
15-015-0-0017-02-100	SB #4	MEDIO CREEK	3" - 4"	3" - 4"	5"	2"	2"	100'	838	864	82	19.9
15-015-0-0017-02-046	NB #4	MEDIO CREEK	3" - 3.25"	3" - 3.25"	4.25"	2"	2"	100'	866	893	246	59.8
15-015-0-0017-02-305	SB #5	LP 410	2.5"	2.5"	3.5"	2"	2"	50'	432	1685	172	41.8
15-015-0-0017-02-306	NB #5	LP 410	1.75"	1.75"	3"	2.25"	2"	50'	453	1610	172	41.8
								Total	5315	12312	1624	394.8

STATE OF TEXAS
JULIO A. RANGEL
117165
LICENSED
PROFESSIONAL ENGINEER
Julio A. Rangel
2/22/2023

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
2023

IH 35

ROADWAY DETAILS
MILLING AT BRIDGES

SHEET 1 OF 3

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	70

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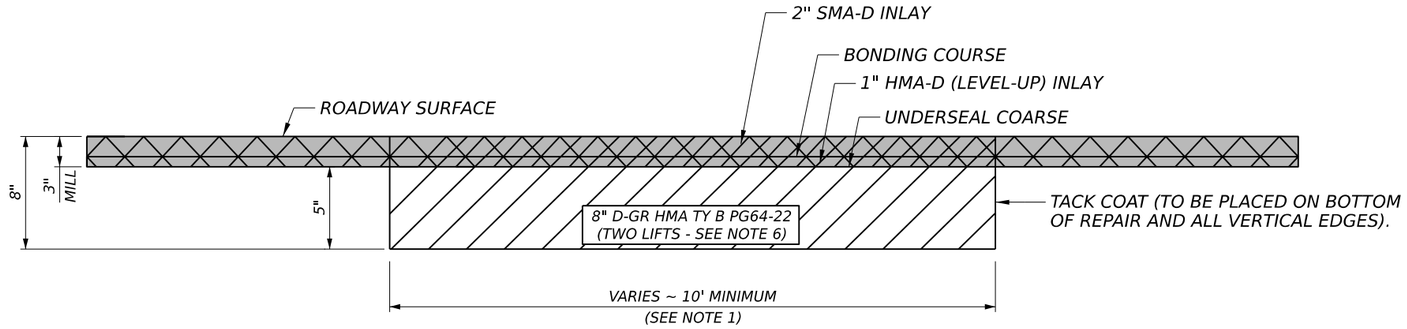

FLEXIBLE PAVEMENT STRUCTURE REPAIR 8"
TYPICAL SECTION

N.T.S.

NOTES:

1. *THE TYPICAL REPAIR DIMENSION SHALL BE A MINIMUM WIDTH OF 10 FT AND A MINIMUM LENGTH OF 20'. THESE DIMESIONS MAY DIFFER BASED UPON THE AREA THAT IS IN NEED OF REPAIR.*

2. *THE USE OF ROTOMILL WILL BE USED FOR THE REMOVAL OF THE EXISTING PAVEMENT STRUCTURE, AND SHALL BE SUBSIDIARY TO ITEM 351,"FLEXIBLE PAVEMENT STRUCTURE REPAIR."*

3. *ALL LABOR & MATERIALS REQUIRED FOR FLEXIBLE PAVEMENT STRUCTURE REPAIR SHALL BE SUBSIDIARY TO ITEM 351.*

4. *THE BASE REPAIR LOCATIONS HAVE BEEN IDENTIFIED ON THE ROADWAY PLAN SHEETS. THESE LOCATIONS AND SIZES OF REPAIR ARE SUBJECT TO CHANGE AS DIRECTED BY THE ENGINEER.*

5. *THE BASE REPAIR LOCATIONS SHALL BE REPAIRED PRIOR TO FINAL MILL AND INLAY RESULTING IN THE TOP 3" OF 8" HMA (TY-B) TO BE SACRIFICIAL AND REMOVED WITH FINAL MILLING.*

6. *THE 8" D-GR HMA TY-B PG 64-22 SHALL BE PLACED IN TWO LIFTS IN THE FOLLOWING LIFT SEQUENCE: THE FIRST LIFT SHALL BE A 5" LIFT (BOTTOM) FOLLOWED BY A 3" LIFT (TOP). A TACK COAT IS REQUIRED BETWEEN LIFTS AND SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO ITEM 351.*

1 REVISED 02/22/2023

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Texas Department of Transportation

IH 35

BASE REPAIR DETAIL

SHEET 1 OF 1

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	76

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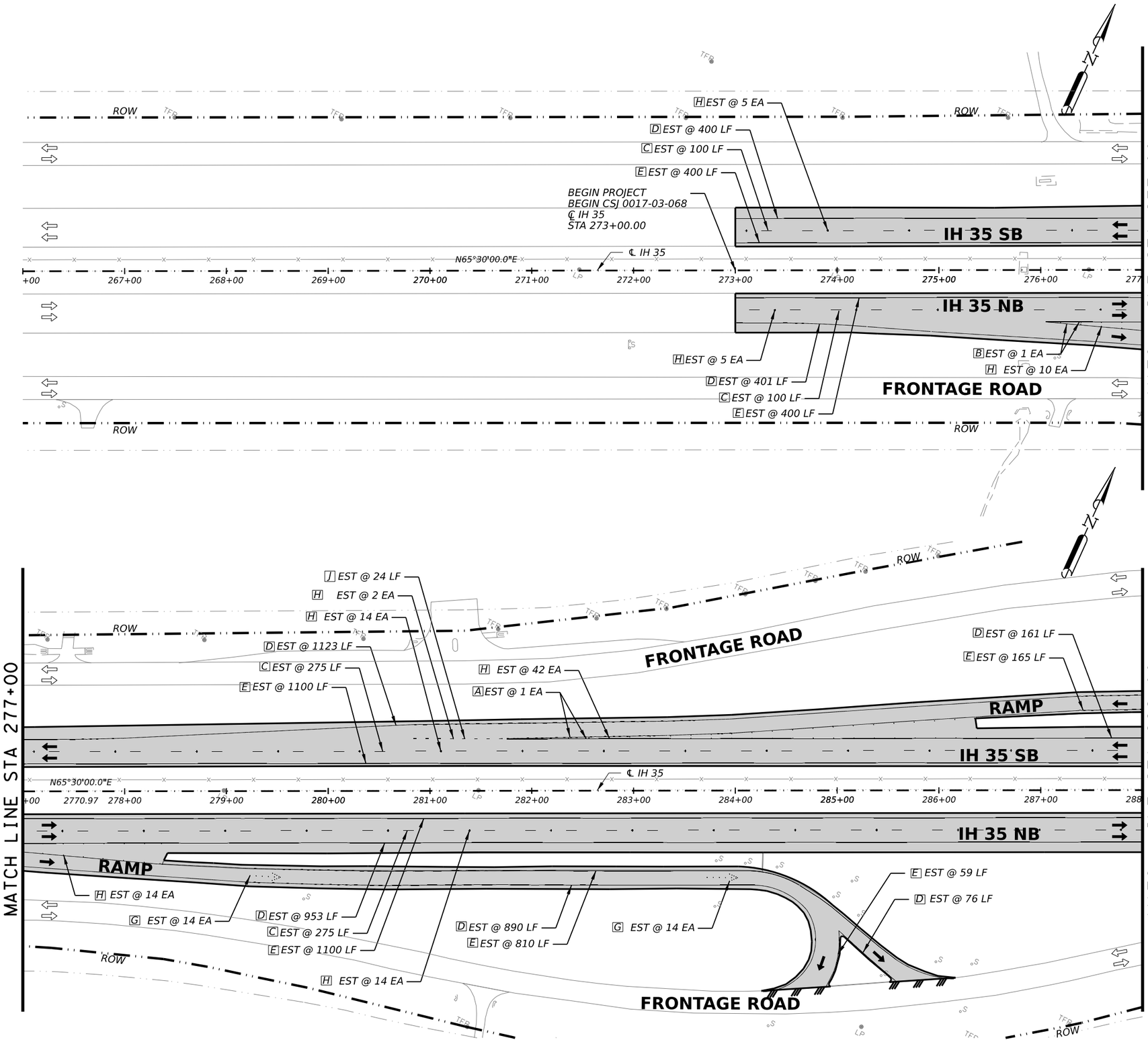

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	3575
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	24
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	8788
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	7
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	750
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4004
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4034
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	104
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	8788
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	7
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
2023

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

BEGIN TO STA 288+00

SHEET 1 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	101

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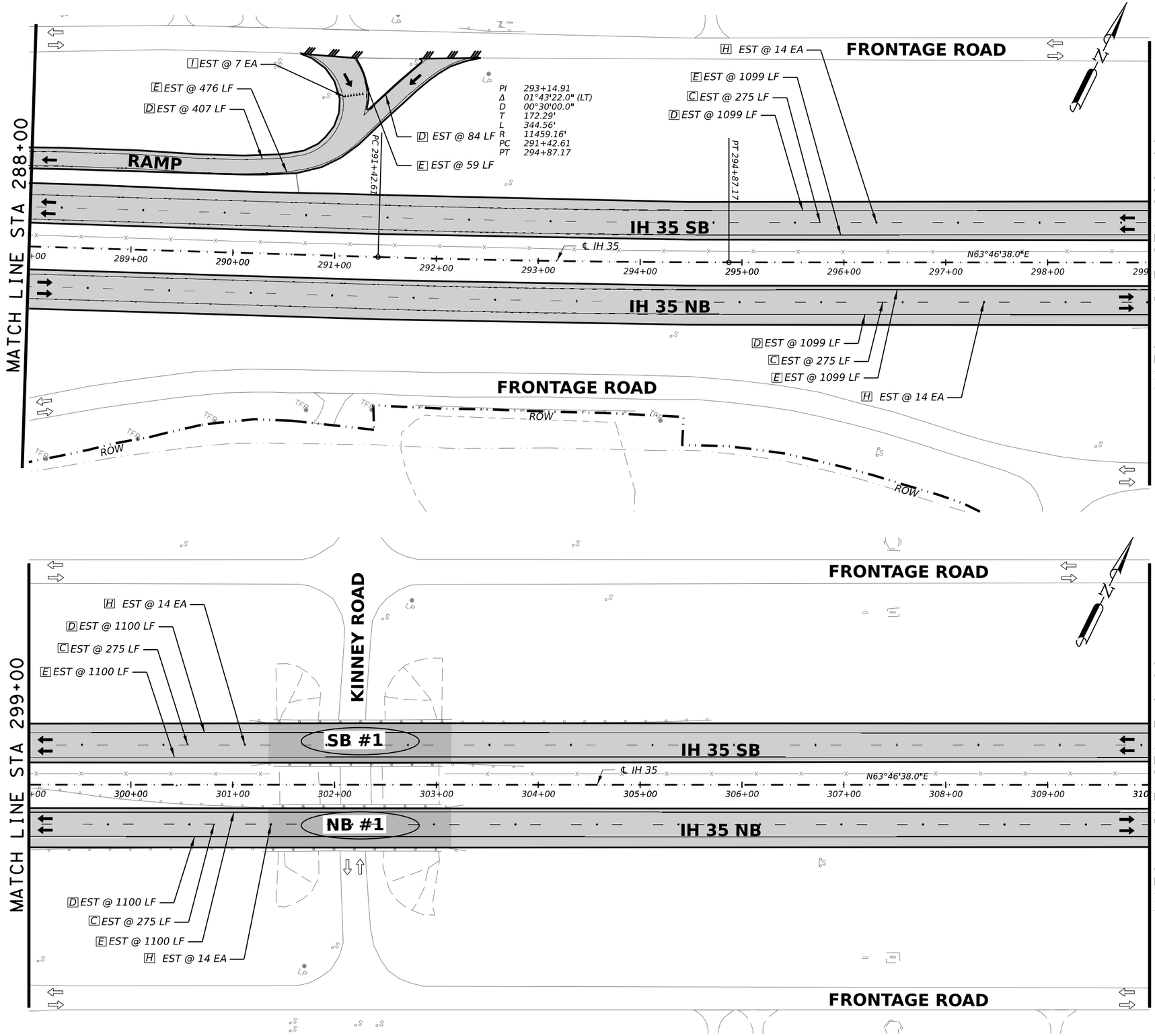

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	7750
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
T	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	7
	666	6225	PAVEMENT SEALER 6"	LF	10922
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4889
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4933
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	56
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10922
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 288+00 TO STA 310+00

SHEET 2 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	102

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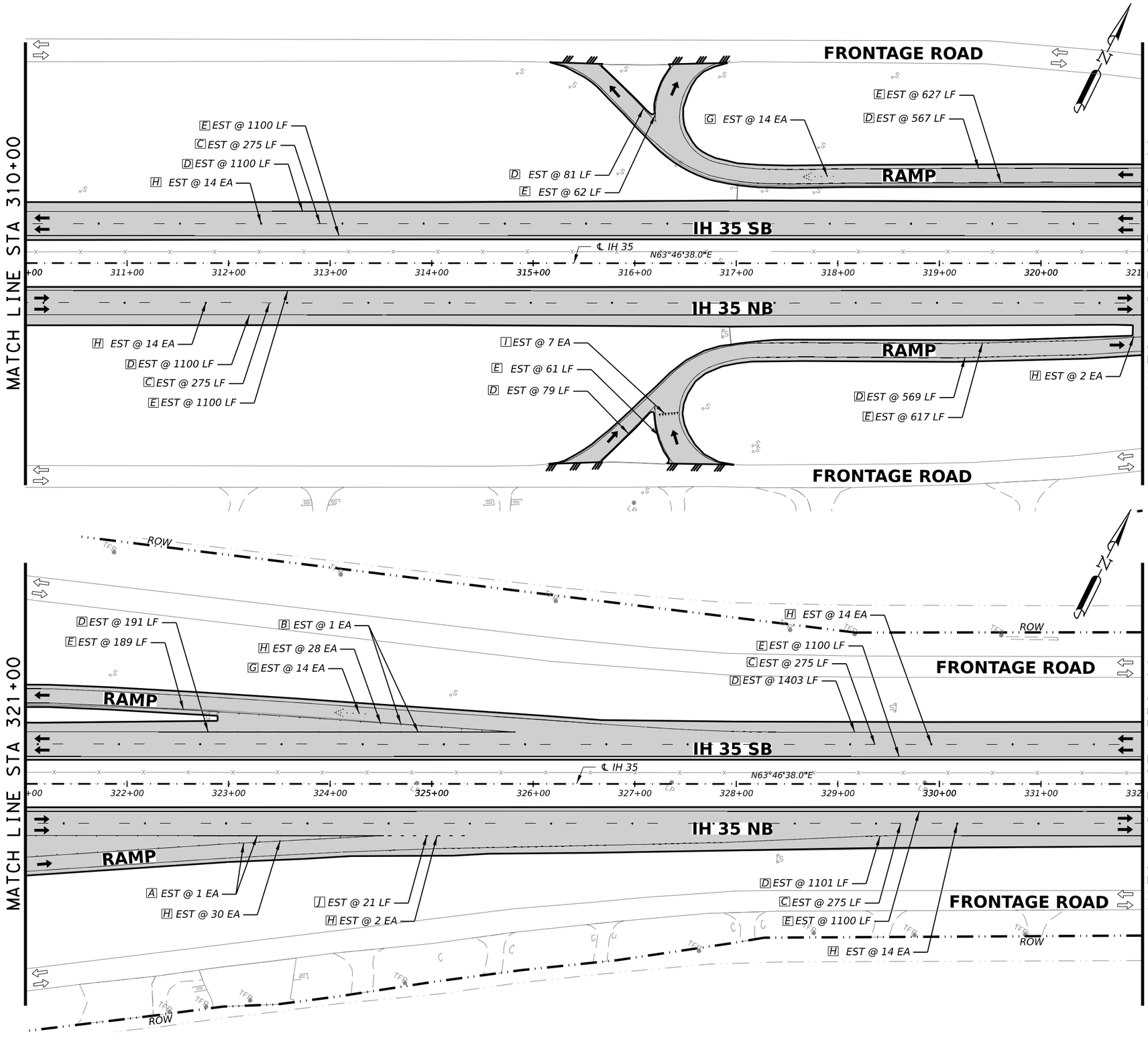

QUANTITY SUMMARY CSJ 0017-02-078, ETC

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	6000
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	21
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	7
	666	6225	PAVEMENT SEALER 6"	LF	13243
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	7
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	6186
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	5957
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	116
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	13243
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	7
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation
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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 310+00 TO STA 332+00

SHEET 3 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	103

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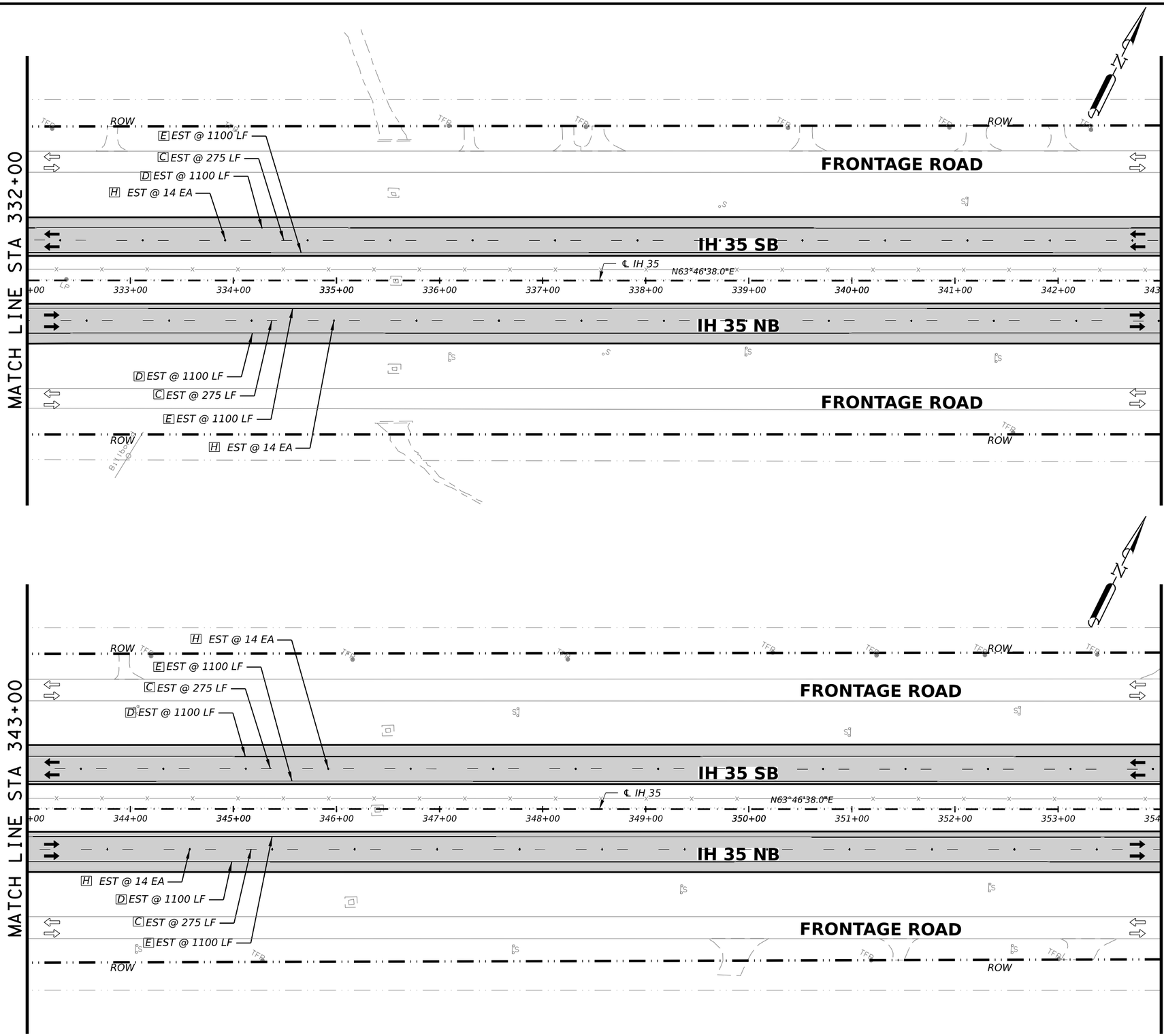

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			QUANTITY SUMMARY CSJ 0017-02-078, ETC		
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	4400
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	9900
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4400
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4400
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	56
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	9900
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation
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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 332+00 TO STA 354+00

SHEET 4 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	104

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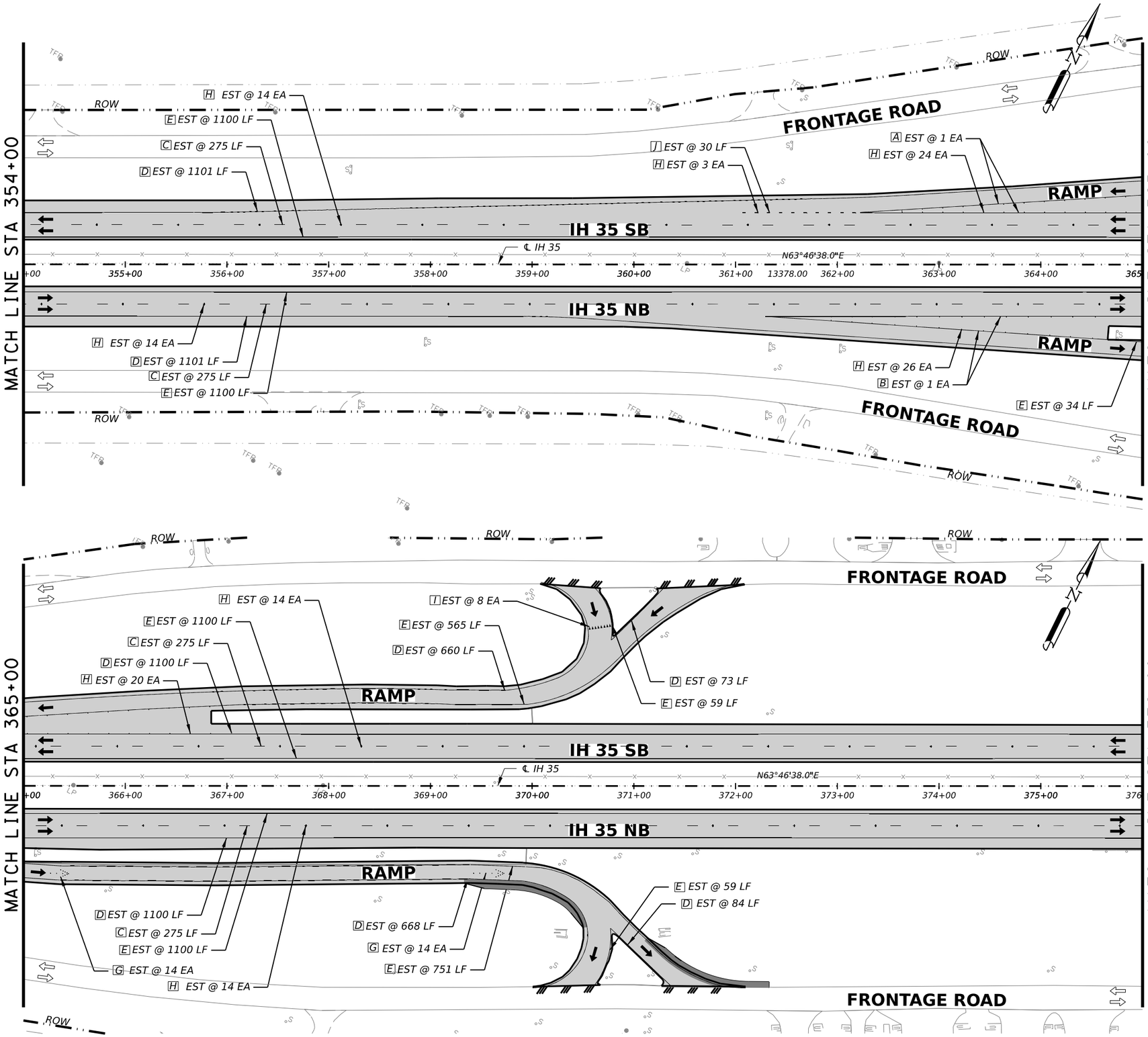

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	4000
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	4
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	30
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	8
	666	6225	PAVEMENT SEALER 6"	LF	12853
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	8
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	5885
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	5868
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	126
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	12853
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	8
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

QUANTITY SUMMARY CSJ 0017-02-078, ETC

1 REVISED 02/22/2023

GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 354+00 TO STA 376+00

SHEET 5 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	105

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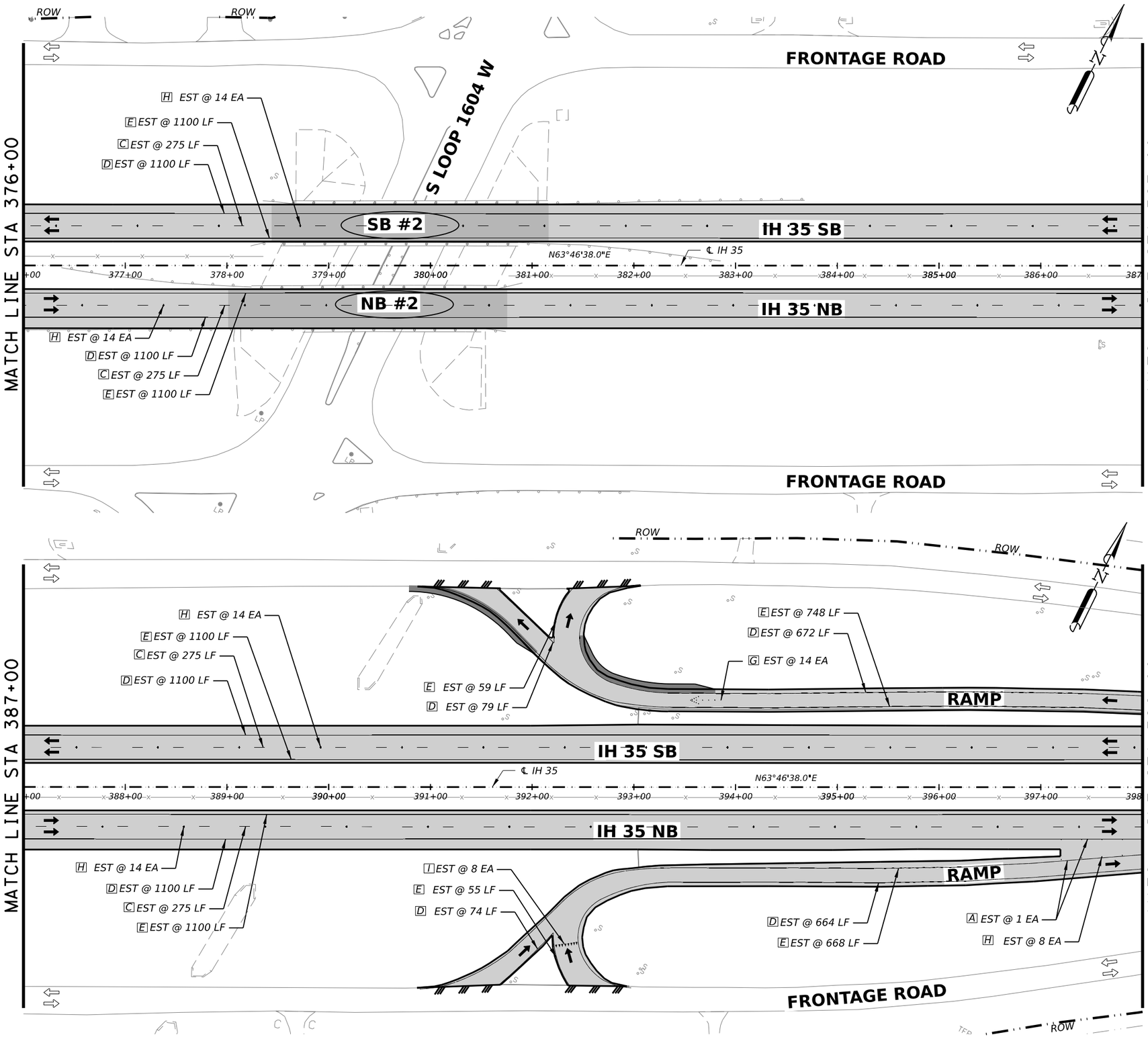

QUANTITY SUMMARY CSJ 0017-02-078, ETC

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	7260
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	2
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	8
	666	6225	PAVEMENT SEALER 6"	LF	10719
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	8
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	5889
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	3730
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	14
H	672	6010	REFL PAV MRKR TY II-C-R	EA	64
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10719
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	8
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
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141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
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REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 376+00 TO STA 398+00

SHEET 6 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	106

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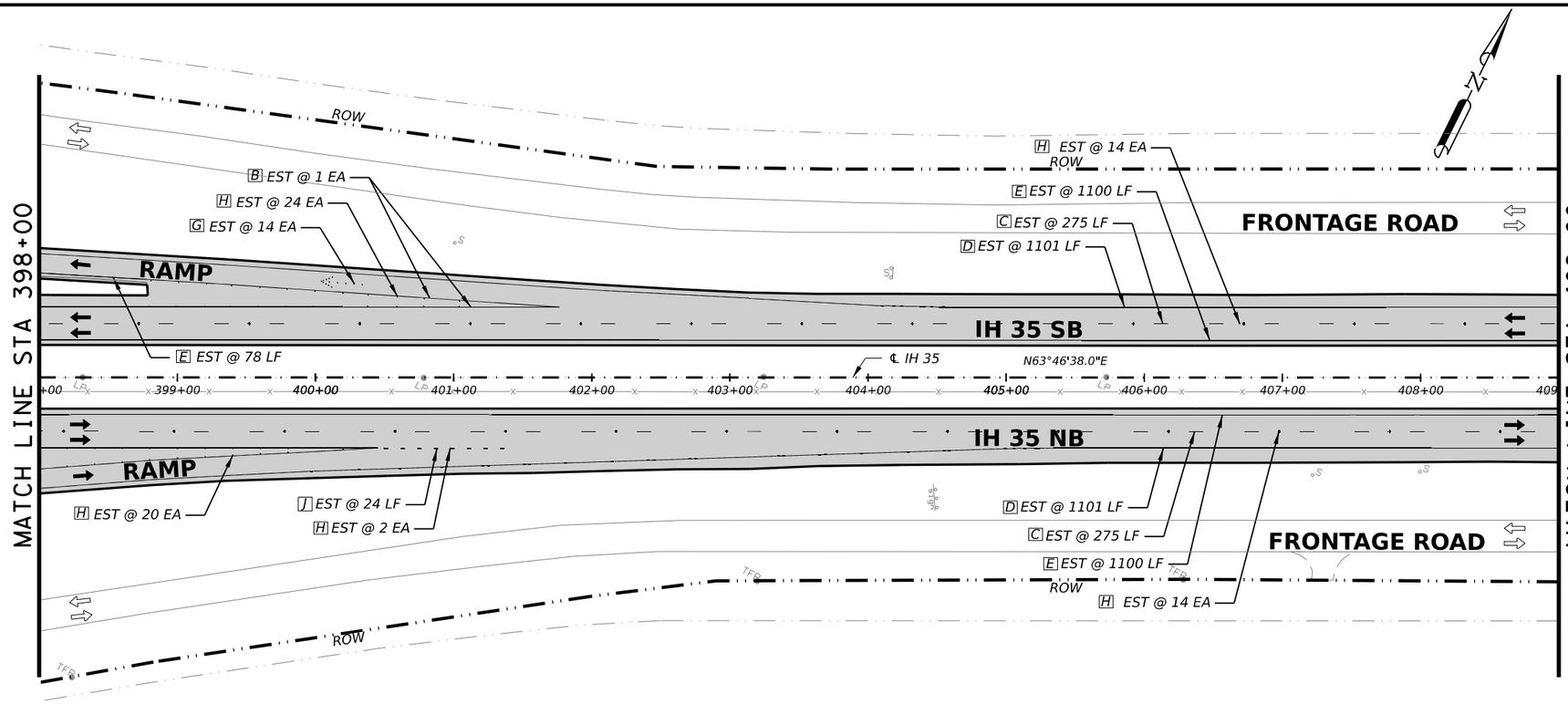

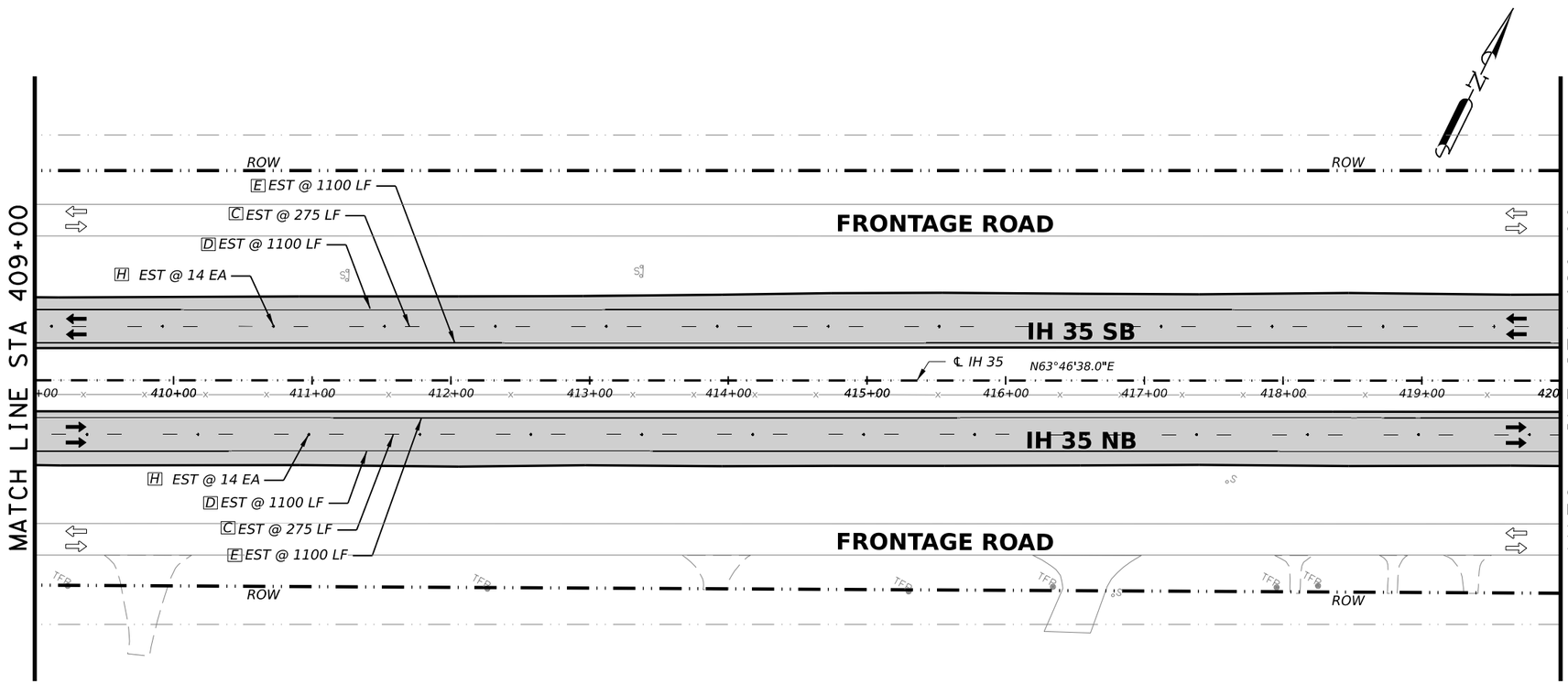

QUANTITY SUMMARY CSJ 0017-02-078, ETC

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	9200
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	24
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	9980
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4402
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4478
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	14
H	672	6010	REFL PAV MRKR TY II-C-R	EA	100
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	9980
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation
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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 398+00 TO STA 420+00

SHEET 7 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	107

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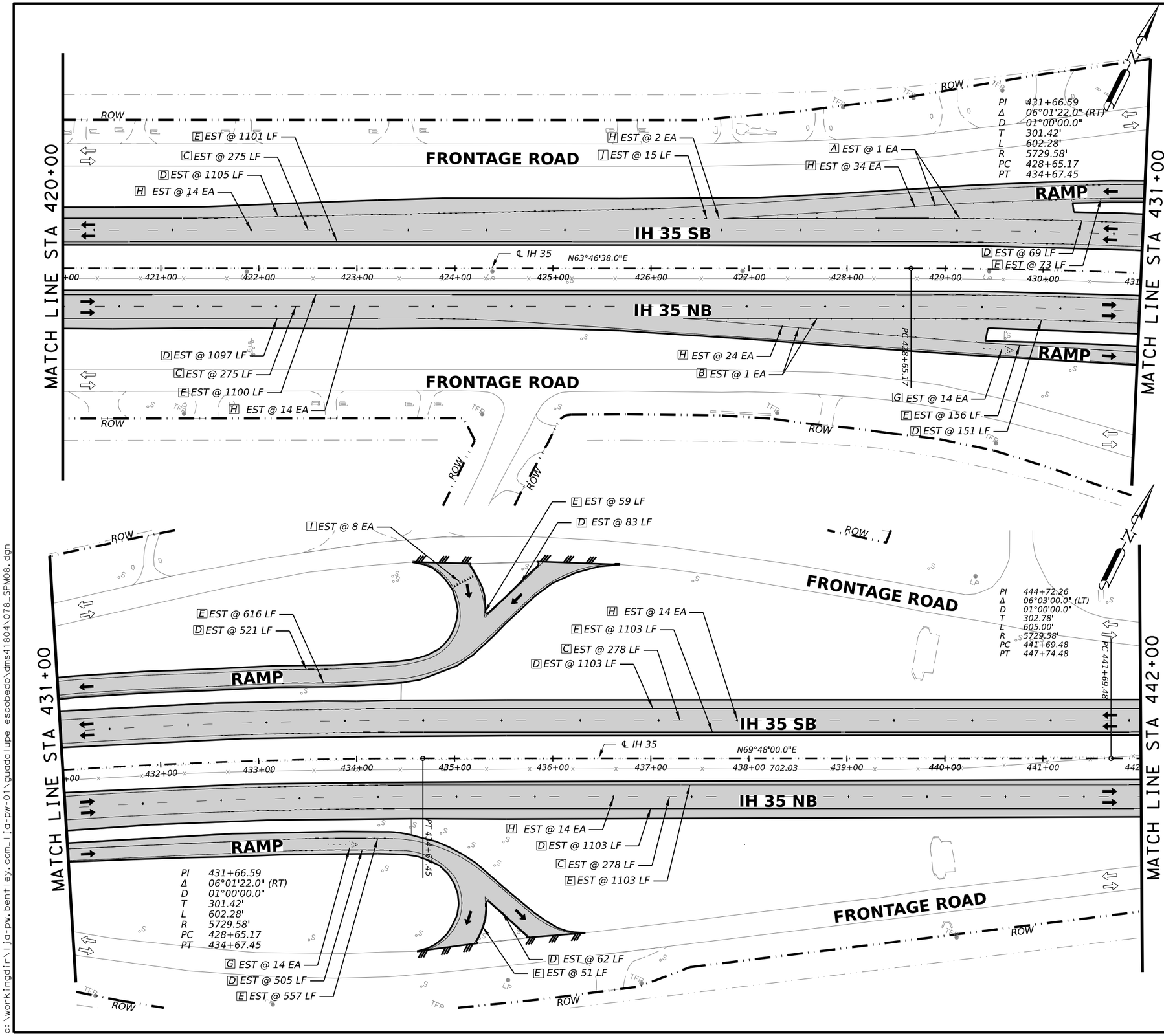

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			QUANTITY SUMMARY CSJ 0017-02-078, ETC		
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	5866
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	15
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	8
	666	6225	PAVEMENT SEALER 6"	LF	12824
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	8
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1106
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	5799
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	5919
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	114
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	12824
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	8
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35
PAVEMENT MARKING
& DELINEATION PLAN SHEETS

STA 420+00 TO STA 442+00

SHEET 8 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	108

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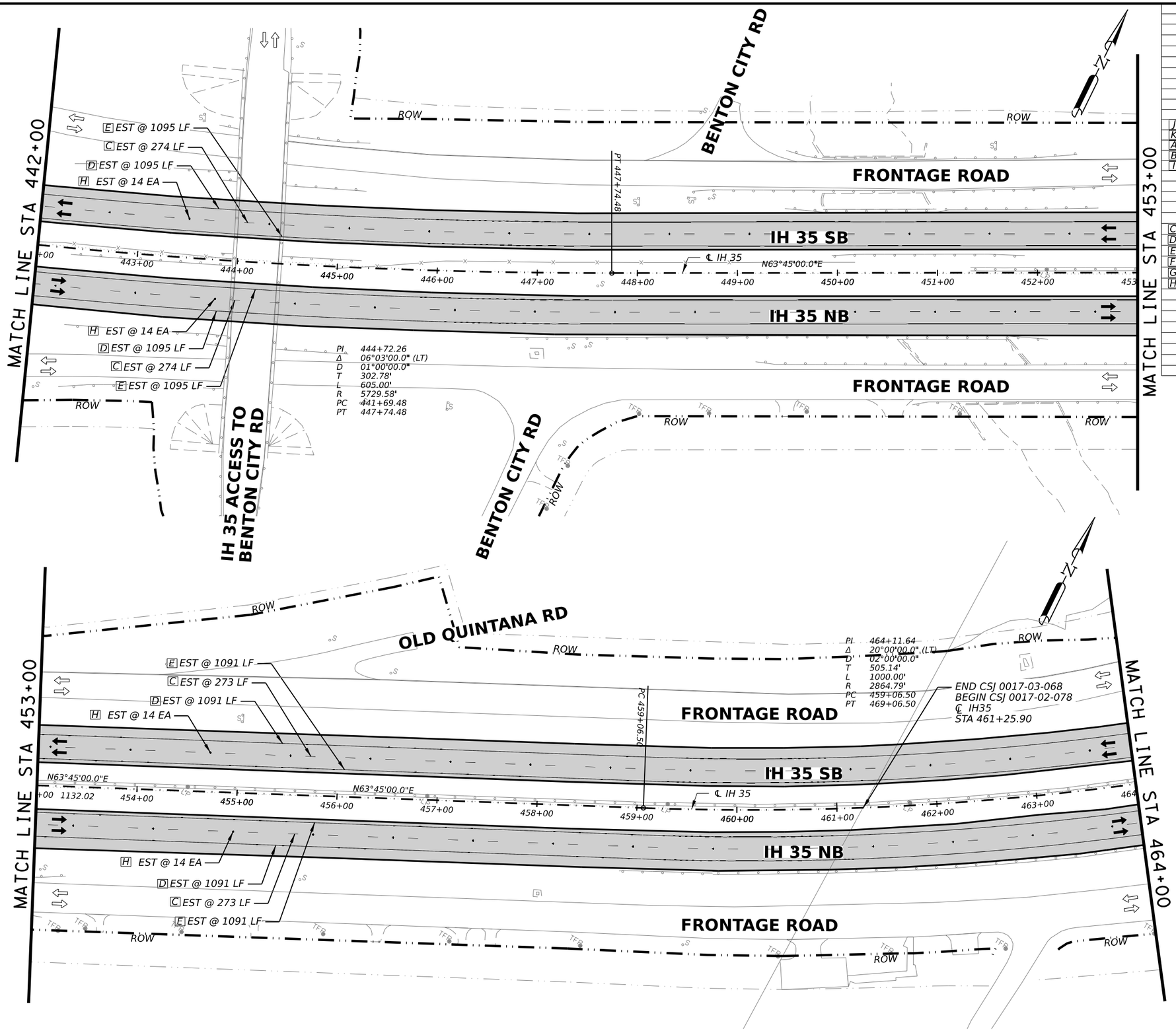

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	8800
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	6
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	12
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	28
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	10
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	14
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	9838
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1094
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4372
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4372
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	56
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	9838
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 442+00 TO STA 464+00

SHEET 9 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	109

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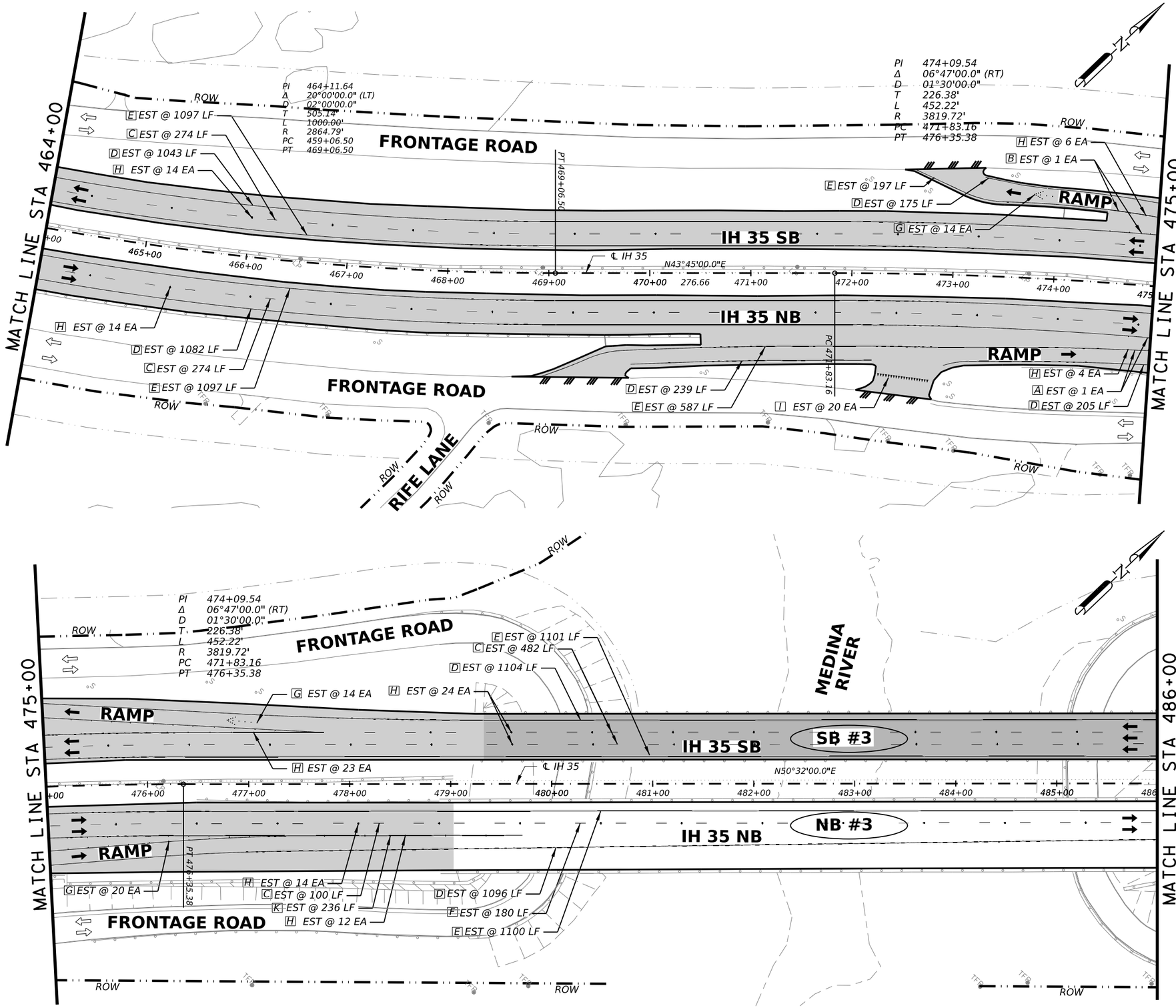

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	5200
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	11
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	15
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	4
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
I	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	236
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
J	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	20
	666	6225	PAVEMENT SEALER 6"	LF	11608
	666	6228	PAVEMENT SEALER 12"	LF	236
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	20
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1305
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4944
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	5179
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	180
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	119
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	11608
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	180
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	300
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	20
	678	6002	PAV SURF PREP FOR MRK (6")	LF	180

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING
& DELINEATION PLAN SHEETS

STA 464+00 TO STA 486+00
SHEET 10 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	110

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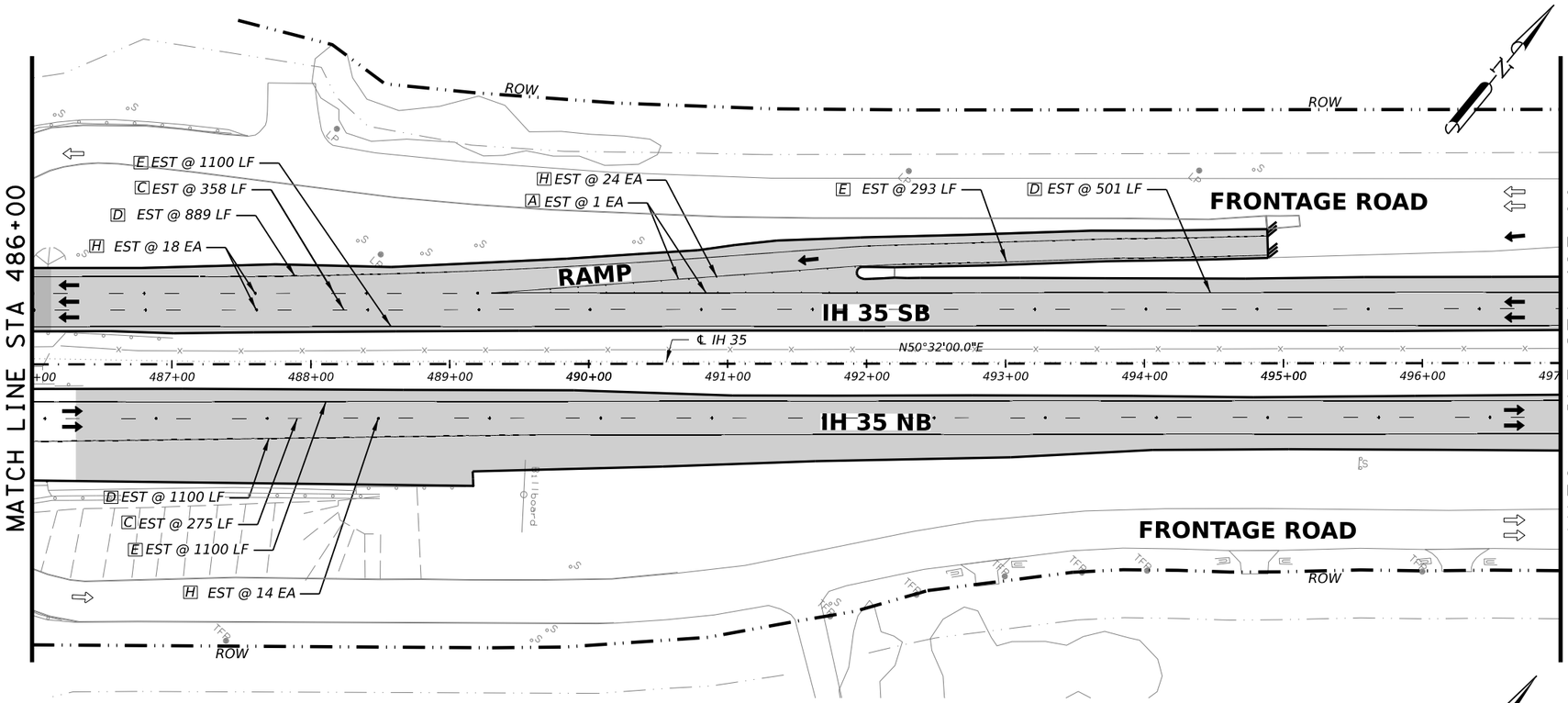

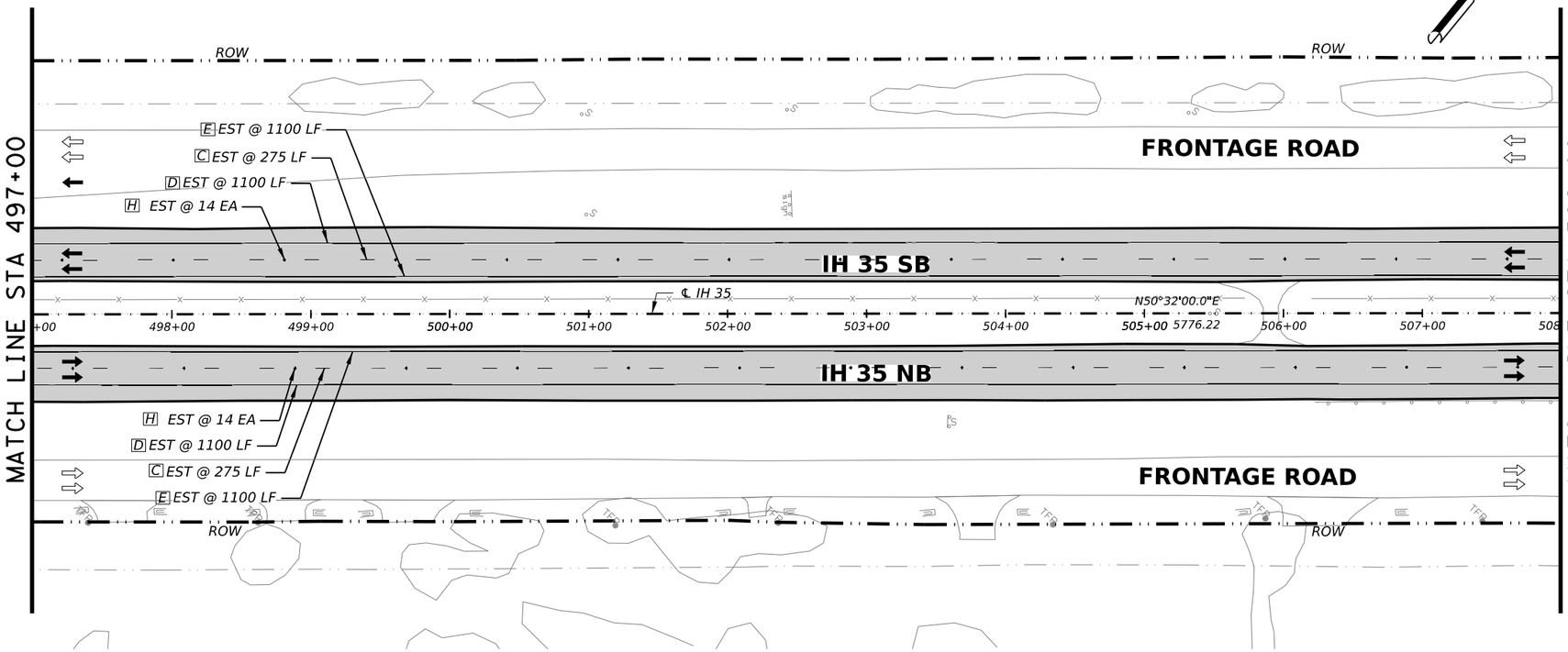

QUANTITY SUMMARY CSJ 0017-02-078, ETC

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	7100
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	3
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	2
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	4
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	10065
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1183
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4189
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4693
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	84
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10065
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 486+00 TO STA 508+00

SHEET 11 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	111

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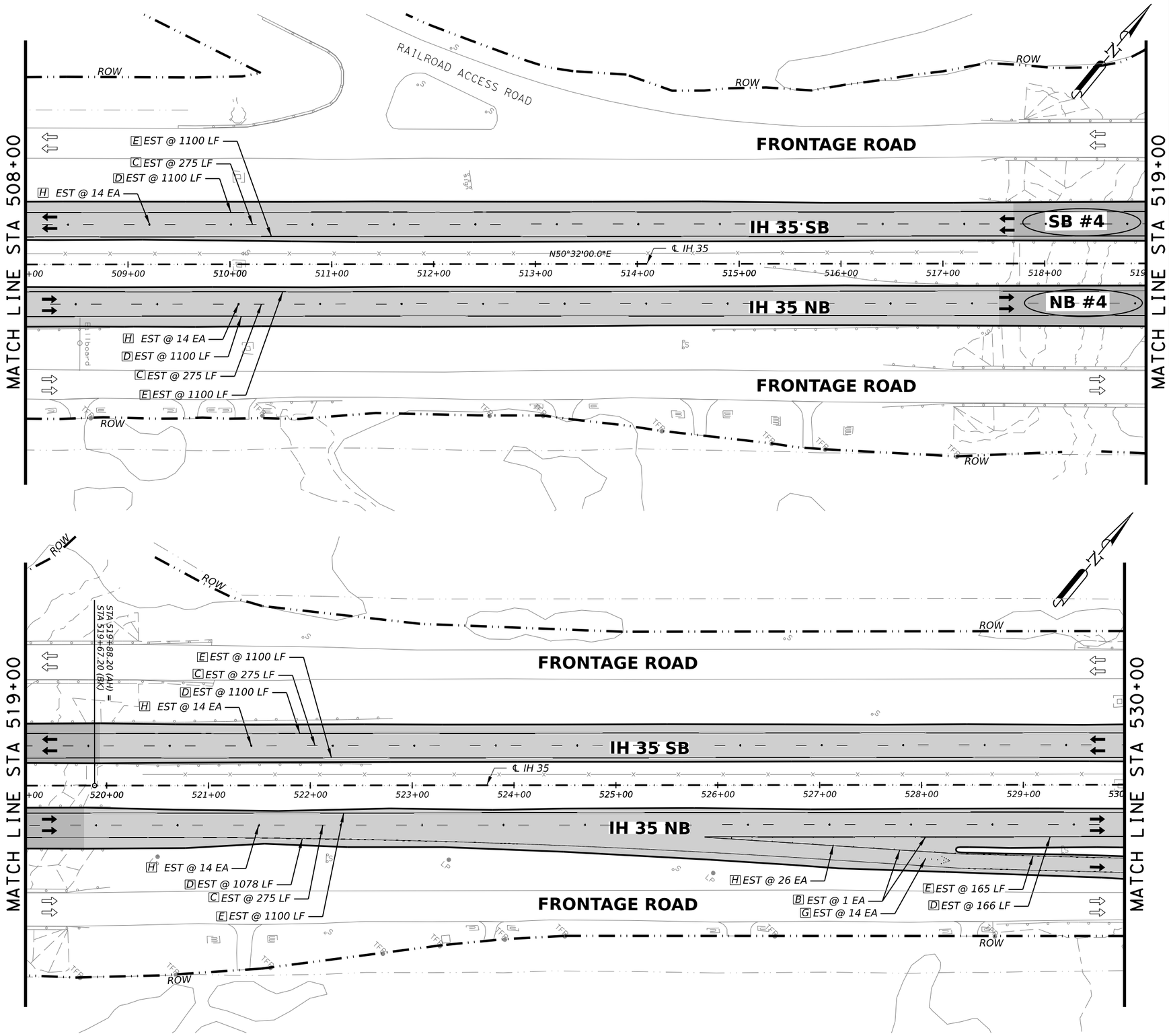

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	5800
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	2
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	10209
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4544
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4565
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	14
H	672	6010	REFL PAV MRKR TY II-C-R	EA	82
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10209
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

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SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

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IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 508+00 TO STA 530+00

SHEET 12 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	112

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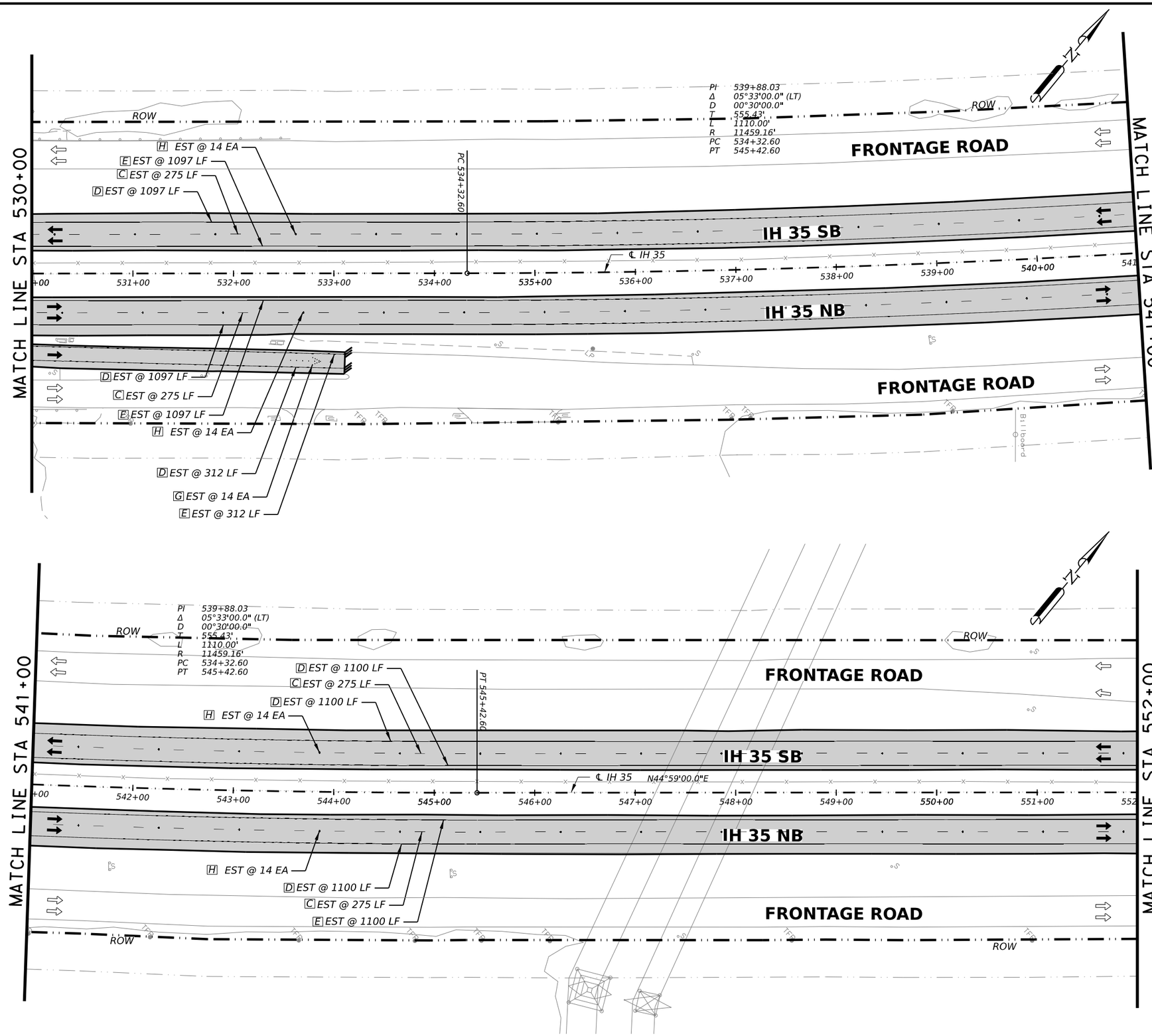

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	8800
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	0
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	0
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	10175
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	0
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	0
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4744
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4331
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	14
H	672	6010	REFL PAV MRKR TY II-C-R	EA	56
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10175
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	0
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	0
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation
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IH 35
PAVEMENT MARKING
& DELINEATION PLAN SHEETS

STA 530+00 TO STA 552+00
SHEET 13 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	113

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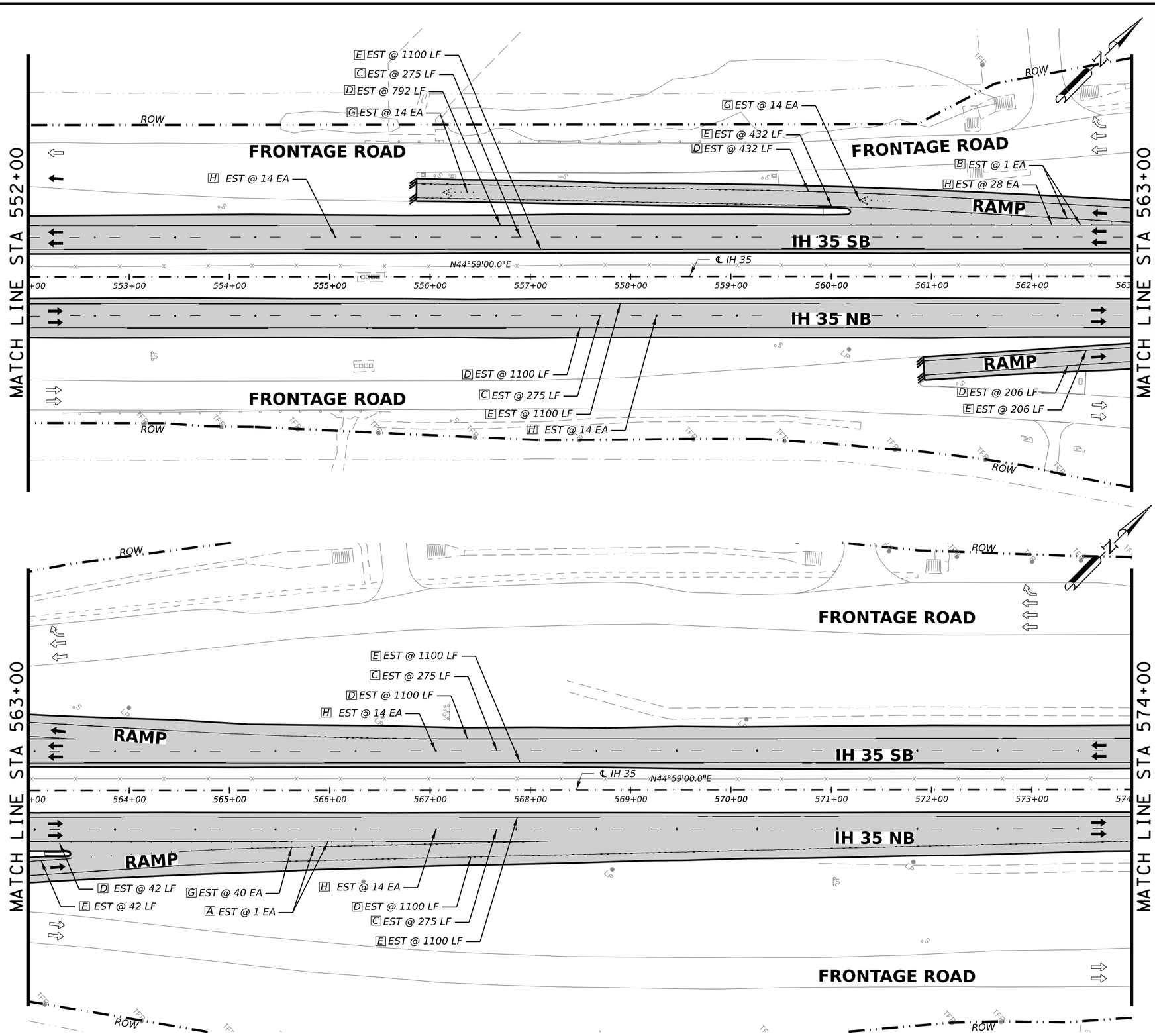

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			QUANTITY SUMMARY CSJ 0017-02-078, ETC		
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	6300
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	0
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	10950
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4770
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	5080
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	124
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10950
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 552+00 TO STA 574+00

SHEET 14 OF 17

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	114

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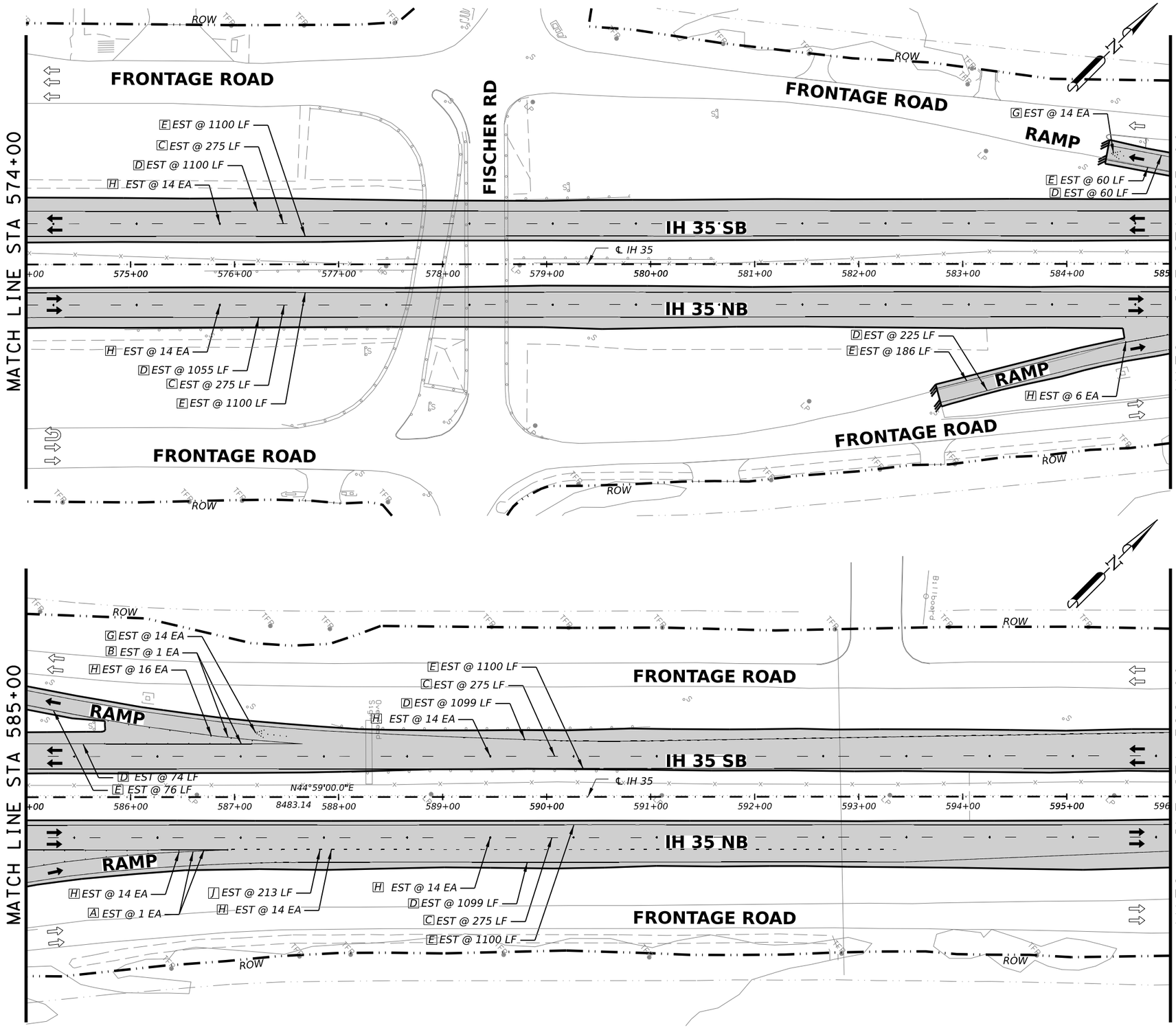

QUANTITY SUMMARY CSJ 0017-02-078, ETC

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	4128
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	20
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	18
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	213
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	10534
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4712
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4722
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	28
H	672	6010	REFL PAV MRKR TY II-C-R	EA	108
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	10534
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN-F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 574+00 TO STA 596+00

SHEET 15 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	115

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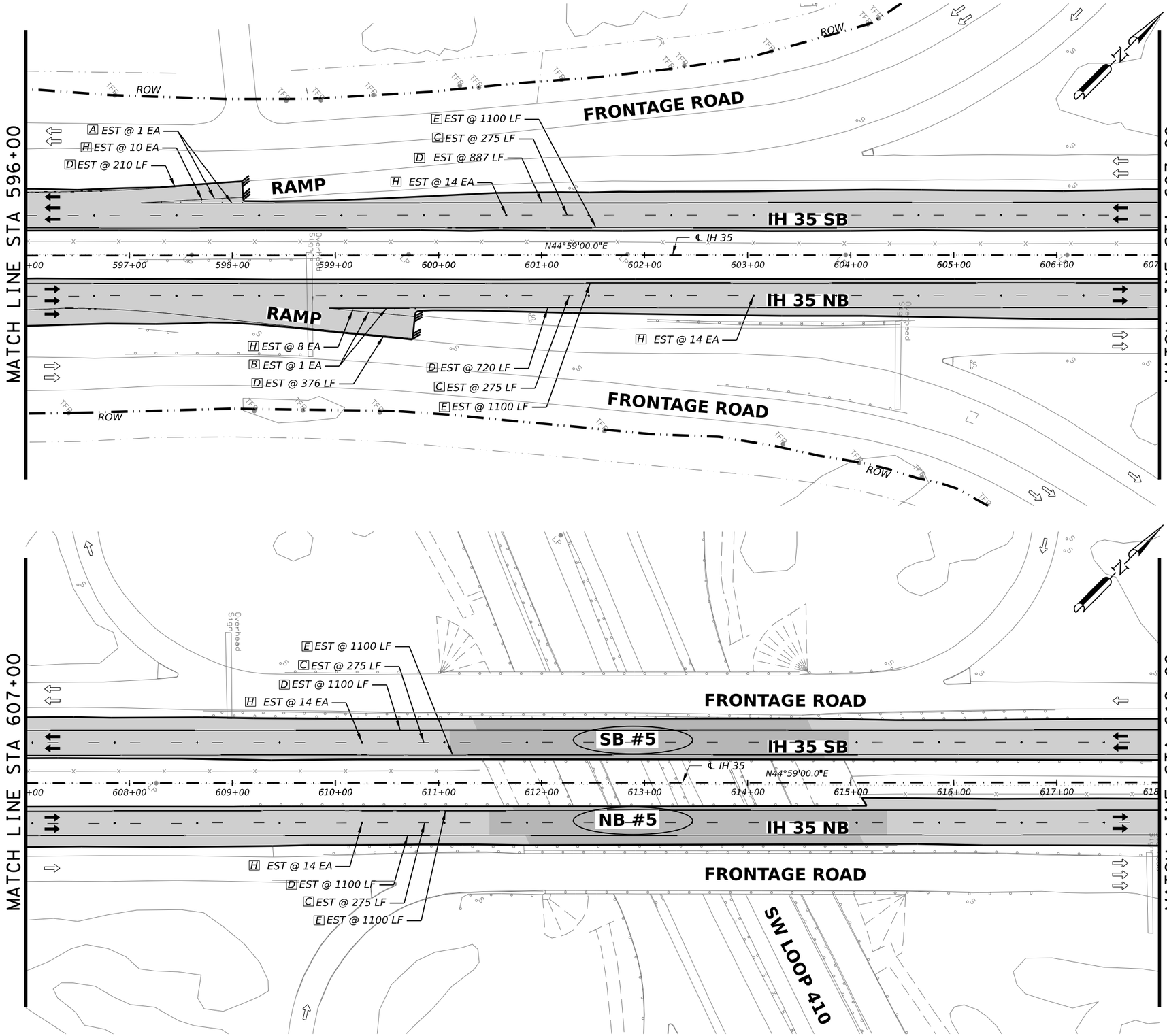

QUANTITY SUMMARY CSJ 0017-02-078, ETC					
	ITEM	CODE	DESCRIPTION	UNIT	QTY
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	6056
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	13
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	0
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	9893
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	1100
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	4393
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	4400
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	74
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	9893
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
FRN - F-1386

Texas Department of Transportation

IH 35
PAVEMENT MARKING & DELINEATION PLAN SHEETS

STA 596+00 TO STA 618+00

SHEET 16 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	116

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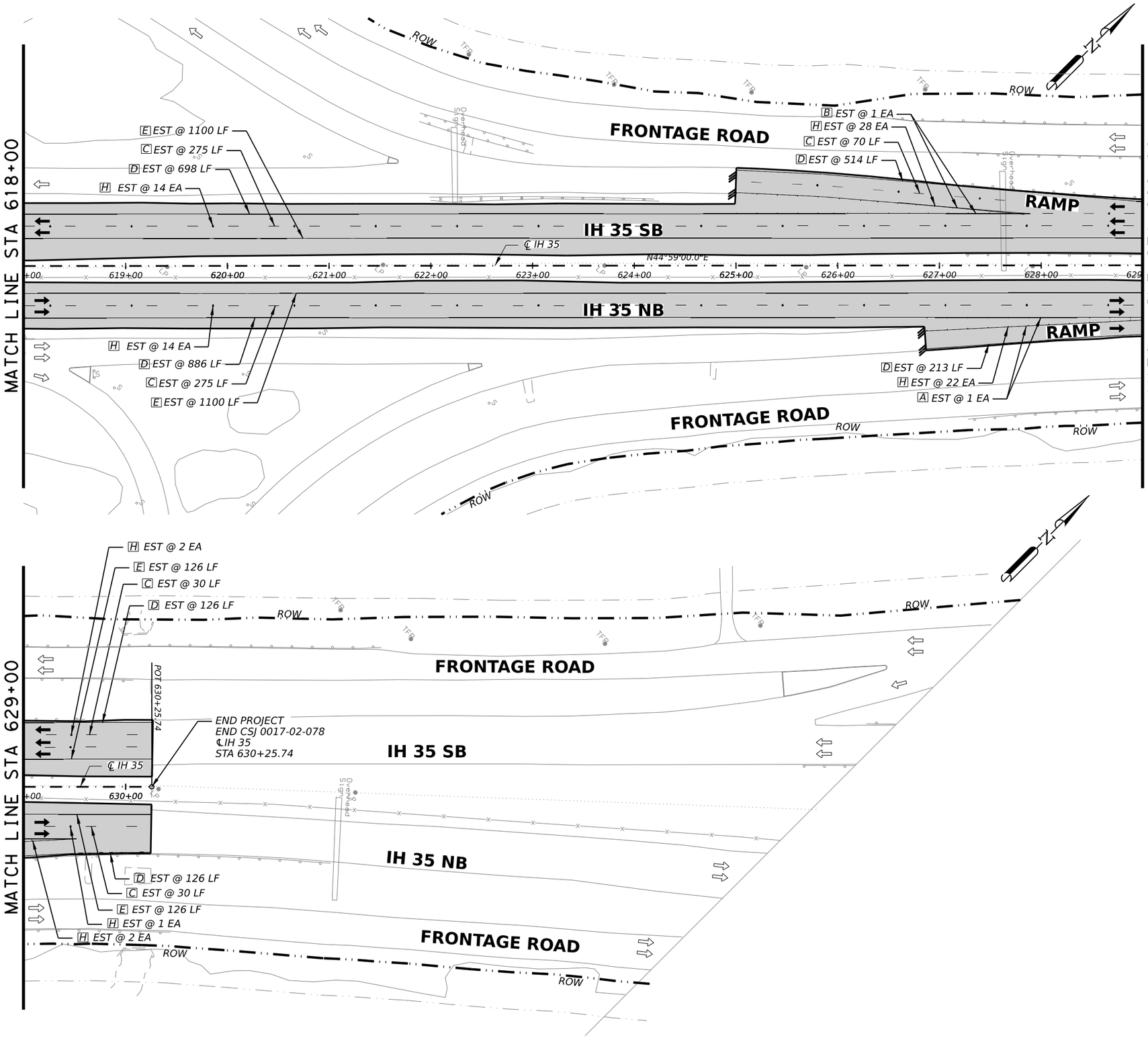

	ITEM	CODE	DESCRIPTION	UNIT	QTY
			QUANTITY SUMMARY CSJ 0017-02-078, ETC		
			PAVEMENT MARKING QUANTITIES		
	533	6001	RUMBLE STRIPS (SHOULDER)	LF	4200
	644	6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	0
	658	6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA	0
	658	6024	INSTL DEL ASSM (D-SY)SZ 2(WC)GND	EA	0
	658	6027	INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BI)	EA	0
	658	6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA	13
	658	6062	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BI)	EA	0
	658	6064	INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2	EA	5
J	666	6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	0
K	666	6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	0
A	666	6081	REFL PAV MRK TY I(W)(ENTR GORE)(100MIL)	EA	1
B	666	6084	REFL PAV MRK TY I(W)(EXIT GORE)(100MIL)	EA	1
I	666	6102	REF PAV MRK TY I(W)36"(YLD TRI)(100MIL)	EA	0
	666	6225	PAVEMENT SEALER 6"	LF	5695
	666	6228	PAVEMENT SEALER 12"	LF	0
	666	6239	PAVEMENT SEALER (ENTR GORE)	EA	1
	666	6240	PAVEMENT SEALER (EXIT GORE)	EA	1
	666	6243	PAVEMENT SEALER (YLD TRI)	EA	0
C	666	6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	680
D	666	6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	2563
E	666	6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	2452
F	668	6010	PREFAB PAV MRK TY B (W)(6")(BRK)CNTST	LF	0
G	672	6008	REFL PAV MRKR TY I-R	EA	0
H	672	6010	REFL PAV MRKR TY II-C-R	EA	83
	677	6002	ELIM EXT PAV MRK & MRKS (6")	LF	5695
	677	6004	ELIM EXT PAV MRK & MRKS (10")	LF	0
	677	6005	ELIM EXT PAV MRK & MRKS (12")	LF	0
	677	6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
	677	6013	ELIM EXT PAV MRK & MRKS (ENTR GORE)	EA	1
	677	6014	ELIM EXT PAV MRK & MRKS (EXIT GORE)	EA	1
	677	6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA	0
	678	6002	PAV SURF PREP FOR MRK (6")	LF	0

1 REVISED 02/22/2023

STATE OF TEXAS
GUADALUPE ESCOBEDO
141389
LICENSED
PROFESSIONAL ENGINEER

2/22/2023

0' 25' 50' 100'
SCALE: 1"=100'

REV. NO.	DATE	DESCRIPTION	BY

LJA Engineering, Inc.
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IH 35
PAVEMENT MARKING
& DELINEATION PLAN SHEETS

STA 618+00 TO END

SHEET 17 OF 17

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	SEE TITLE SHEET			IH35
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
SAT	BEXAR	0017	02	078, ETC.	117

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