

RECEIVED  
 JUL 25 2018  
 BY: PST

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

Received

JUL 24 2018

- CONTRACTOR: Chasco Constructors, Inc.
- Change Order Work Limits: Sta. 206+00 to Sta. 217+31
- Type of Change (on federal-aid non-exempt projects): Major (Major/Minor)
- Reasons: 2H, 2E, 3H (3 Max. - In order of importance - Primary first)

Project: HNTB Corporation  
1604-075  
 Roadway: Round Rock  
CR 110 South  
 CSJ  
 Number: \_\_\_\_\_

5. Describe the work being revised:

**2H: Differing Site Conditions. Unacquired Right-of-Way (unforeseeable).** This Change Order revises the north end of the project tying into existing CR 110 by shortening the limits due to an unacquired Right Of Way tract. The proposed roadway taper to existing pavement is shortened to stay within acquired limits. **2E: Differing Site Conditions. Miscellaneous Differences in Field Conditions (Item 9).** This Change Order provides for the final balancing for the overrun/underrun of Contract quantities on the project as a result of addressing field conditions not accounted for in the original plans. **3H: County Convenience. Cost savings opportunity discovered during construction.** This Change Order revises the project limits on the construction of Limmer Loop from full reconstruction to a notch and widen because the existing pavement is still in good condition.

- Work to be performed in accordance with Items: Various
- New or revised plan sheet(s) are attached and numbered: Sheets 102, 103, 105.
- New Special Provisions/Specifications to the contract are attached:  Yes  No
- New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

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

<p><i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i></p> <p>THE CONTRACTOR Date <u>7/24/18</u></p> <p>By <u>Kellin Neiman</u></p> <p>Typed/Printed Name <u>Kellin Neiman</u></p> <p>Typed/Printed Title <u>SR. PROJECT MANAGER</u></p>	<p><b>The following information must be provided</b></p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>(\$932,493.87)</u></p>
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RECOMMENDED FOR EXECUTION:

[Signature] P.E. 7/25/18  
 Project Manager Date

N/A  
 Design Engineer Date

[Signature] 7/26/18  
 Program Manager Date

Design Engineer's Seal:

- |                                   |   |
|-----------------------------------|---|
| County Commissioner Precinct 1    | Date                                      |
| <input type="checkbox"/> APPROVED | <input type="checkbox"/> REQUEST APPROVAL |
|                                   |   |
| County Commissioner Precinct 2    | Date                                      |
| <input type="checkbox"/> APPROVED | <input type="checkbox"/> REQUEST APPROVAL |
|                                   |   |
| County Commissioner Precinct 3    | Date                                      |
| <input type="checkbox"/> APPROVED | <input type="checkbox"/> REQUEST APPROVAL |
|                                   |   |
| County Commissioner Precinct 4    | Date                                      |
| <input type="checkbox"/> APPROVED | <input type="checkbox"/> REQUEST APPROVAL |
|                                   |   |
| County Judge                      | Date                                      |
| <input type="checkbox"/> APPROVED |   |

# WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

Project # 1708-186

**TABLE A:** Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE		HOURLY RATE

**TABLE B:** Contract Items:

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
100-6002	PREPARING ROW	STA	\$2,800.00	135.00	\$378,000.00	(4.50)	130.50	\$365,400.00	(\$12,600.00)
105-6011	REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	\$3.25	3,186.00	\$10,354.50	(247.00)	2,939.00	\$9,551.75	(\$802.75)
110-6001	EXCAVATION (ROADWAY)	CY	\$8.25	68,729.00	\$567,014.25	(9,674.00)	59,055.00	\$487,203.75	(\$79,810.50)
132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	\$7.35	47,003.00	\$345,472.05	(4,935.00)	42,068.00	\$309,199.80	(\$36,272.25)
160-WC02	FURNISHING AND PLACING TOPSOIL	SY	\$1.40	115,772.00	\$162,080.80	(12,092.00)	103,680.00	\$145,152.00	(\$16,928.80)
164-WC01	SEEDING FOR EROSION CONTROL (TY 4)	SY	\$0.16	57,886.00	\$9,261.76	68,642.00	126,528.00	\$20,244.48	\$10,982.72
164-WC07	SEEDING FOR EROSION CONTROL (TY 7)	SY	\$0.84	115,772.00	\$97,248.48	(115,772.00)	0.00	\$0.00	(\$97,248.48)
164-WC10	SEEDING FOR EROSION CONTROL (TY 10)	SY	\$0.13	57,886.00	\$7,525.18	(9,486.00)	48,400.00	\$6,292.00	(\$1,233.18)
168-WC01	VEGETATIVE WATERING	MG	\$16.00	3,474.10	\$55,585.60	(420.90)	3,053.20	\$48,851.20	(\$6,734.40)
169-6001	SOIL RETENTION BLANKETS (CL 1) (TY A)	SY	\$1.25	47,198.00	\$58,997.50	7,856.82	55,054.82	\$68,818.53	\$9,821.03
247-6044	FL BS (CMP IN PLC)(TY A GR 4)(FNAL POS)	CY	\$35.50	29,570.00	\$1,049,735.00	5,718.00	35,288.00	\$1,252,724.00	\$202,989.00
260-6001	LIME (HYDRATED LIME (DRY))	TON	\$175.00	1,227.00	\$214,725.00	(650.00)	577.00	\$100,975.00	(\$113,750.00)
260-6027	LIME TRT (EXST MATL)(8")	SY	\$3.30	68,153.00	\$224,904.90	(39,653.00)	28,500.00	\$94,050.00	(\$130,854.90)
310-6027	PRIME COAT(MC-30 OR AE-P)	GAL	\$4.00	13,361.00	\$53,444.00	(3,361.00)	10,000.00	\$40,000.00	(\$13,444.00)
316-6005	ASPH (TIER II)	GAL	\$3.05	15,008.00	\$45,774.40	(2,333.00)	12,675.00	\$38,658.75	(\$7,115.65)
316-6193	AGGR(TY-D GR-5 SAC-B)	CY	\$100.00	402.00	\$40,200.00	16.00	418.00	\$41,800.00	\$1,600.00
341-6008	D-GR HMA TY-B PG64-22	TON	\$60.00	16,001.00	\$960,060.00	(2,014.62)	13,986.38	\$839,182.80	(\$120,877.20)
400-6006	CUT & RESTORING PAV	SY	\$74.00	98.00	\$7,252.00	(33.00)	65.00	\$4,810.00	(\$2,442.00)
401-6001	FLOWABLE BACKFILL	CY	\$114.00	415.00	\$47,310.00	(331.00)	84.00	\$9,576.00	(\$37,734.00)
403-6001	TEMPORARY SPL SHORING	SF	\$22.00	950.00	\$20,900.00	(950.00)	0.00	\$0.00	(\$20,900.00)
<b>TOTALS</b>					\$4,355,845.42			\$3,882,490.06	(\$473,355.36)

# WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

Project # 1708-186

TABLE B: Contract Items (Continued)

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
432-6001	RIPRAP (CONC)(4 IN)	CY	\$360.00	1,360.00	\$489,600.00	(116.00)	1,244.00	\$447,840.00	(\$41,760.00)
432-6002	RIPRAP (CONC)(5 IN)	CY	\$330.00	288.00	\$95,040.00	(160.00)	128.00	\$42,240.00	(\$52,800.00)
432-6031	RIPRAP (STONE PROTECTION)(12 IN)	CY	\$96.00	567.00	\$54,432.00	(338.00)	229.00	\$21,984.00	(\$32,448.00)
432-6045	RIPRAP (MOW STRIP)(4 IN)	CY	\$410.00	30.00	\$12,300.00	11.00	41.00	\$16,810.00	\$4,510.00
462-6011	CONC BOX CULV (6 FT X 4 FT)	LF	\$277.00	172.00	\$47,644.00	(156.00)	16.00	\$4,432.00	(\$43,212.00)
464-6008	RC PIPE (CL III)(36 IN)	LF	\$95.00	238.00	\$22,610.00	16.00	254.00	\$24,130.00	\$1,520.00
464-6026	RC PIPE (CL V)(24 IN)	LF	\$60.00	222.00	\$13,320.00	93.00	315.00	\$18,900.00	\$5,580.00
466-6183	WINGWALL (PW - 1) (HW=8 FT)	EA	\$9,900.00	1.00	\$9,900.00	(1.00)	0.00	\$0.00	(\$9,900.00)
466-6184	WINGWALL (PW - 1) (HW=9 FT)	EA	\$12,100.00	1.00	\$12,100.00	(1.00)	0.00	\$0.00	(\$12,100.00)
467-6454	SET (TY II) (36 IN) (RCP) (6: 1) (P)	EA	\$3,850.00	4.00	\$15,400.00	4.00	8.00	\$30,800.00	\$15,400.00
496-6001	REMOV STR (BOX CULVERT)	EA	\$3,050.00	5.00	\$15,250.00	(2.00)	3.00	\$9,150.00	(\$6,100.00)
496-6072	REMOVING ROCK RIPRAP	LF	\$16.00	148.00	\$2,368.00	(148.00)	0.00	\$0.00	(\$2,368.00)
506-6003	ROCK FILTER DAMS (INSTALL) (TY 3)	LF	\$40.00	236.00	\$9,440.00	(168.00)	68.00	\$2,720.00	(\$6,720.00)
506-6011	ROCK FILTER DAMS (REMOVE)	LF	\$7.00	236.00	\$1,652.00	(168.00)	68.00	\$476.00	(\$1,176.00)
506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	\$16.00	500.00	\$8,000.00	(300.00)	200.00	\$3,200.00	(\$4,800.00)
506-6024	CONSTRUCTION EXITS (REMOVE)	SY	\$7.00	500.00	\$3,500.00	(300.00)	200.00	\$1,400.00	(\$2,100.00)
506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	\$3.00	14,620.00	\$43,860.00	(3,900.00)	10,720.00	\$32,160.00	(\$11,700.00)
506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	\$0.55	14,620.00	\$8,041.00	(3,900.00)	10,720.00	\$5,896.00	(\$2,145.00)
508-6001	CONSTRUCTING DETOURS	SY	\$45.00	6,702.00	\$301,590.00	(1,378.00)	5,324.00	\$239,580.00	(\$62,010.00)
530-6004	DRIVEWAYS (CONC)	SY	\$70.00	633.00	\$44,310.00	103.00	736.00	\$51,520.00	\$7,210.00
530-6005	DRIVEWAYS (ACP)	SY	\$47.00	3,044.00	\$143,068.00	(913.00)	2,131.00	\$100,157.00	(\$42,911.00)
560-6001	MAILBOX INSTALL-S (TWG-POST) TY 1	EA	\$225.00	12.00	\$2,700.00	4.00	16.00	\$3,600.00	\$900.00
644-6060	IN SM RD SN SUP&AM TYTWT(1)WS(P)	EA	\$370.00	22.00	\$8,140.00	(2.00)	20.00	\$7,400.00	(\$740.00)
644-6061	IN SM RD SN SUP&AM TYTWT(1)WS(T)	EA	\$450.00	28.00	\$12,600.00	(1.00)	27.00	\$12,150.00	(\$450.00)
644-6076	REMOVE SM RD SN SUP&AM	EA	\$70.00	20.00	\$1,400.00	(1.00)	19.00	\$1,330.00	(\$70.00)
658-6046	INSTL OM ASSM (OM-2X)(WC)GND	EA	\$40.00	10.00	\$400.00	(5.00)	5.00	\$200.00	(\$200.00)
662-6004	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	LF	\$0.36	29,581.00	\$10,649.16	2,050.00	31,631.00	\$11,387.16	\$738.00
662-6016	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	LF	\$7.00	88.00	\$616.00	128.00	216.00	\$1,512.00	\$896.00
662-6034	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	LF	\$0.36	29,009.00	\$10,443.24	190.00	29,199.00	\$10,511.64	\$68.40
662-6063	WK ZN PAV MRK REMOV (W)4"(SLD)	LF	\$1.60	2,210.00	\$3,536.00	(2,210.00)	0.00	\$0.00	(\$3,536.00)
662-6075	WK ZN PAV MRK REMOV (W)24"(SLD)	LF	\$10.00	12.00	\$120.00	(12.00)	0.00	\$0.00	(\$120.00)
662-6095	WK ZN PAV MRK REMOV (Y)4"(SLD)	LF	\$1.60	1,584.00	\$2,534.40	(1,584.00)	0.00	\$0.00	(\$2,534.40)
The "Totals" from Table B of the previous work sheet:						\$4,355,845.42		\$3,882,490.06	(\$473,355.36)
<b>TOTALS</b>						<b>\$5,762,409.22</b>		<b>\$4,983,975.86</b>	<b>(\$778,433.36)</b>

# WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 4

Project # 1708-186

TABLE B: Contract Items (Continued)

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
666-6030	REFL PAV MRK TY I (W)8"(DOT)(100MIL)	LF	\$1.10	111.00	\$122.10	(69.00)	42.00	\$46.20	(\$75.90)
666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	\$0.75	2,031.00	\$1,523.25	(547.00)	1,484.00	\$1,113.00	(\$410.25)
666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	\$7.00	457.00	\$3,199.00	(43.00)	414.00	\$2,898.00	(\$301.00)
666-6054	REFL PAV MRK TY I (W)(ARROW)(100MIL)	EA	\$130.00	22.00	\$2,860.00	17.00	39.00	\$5,070.00	\$2,210.00
666-6078	REFL PAV MRK TY I (W)(WORD)(100MIL)	EA	\$140.00	14.00	\$1,960.00	(1.00)	13.00	\$1,820.00	(\$140.00)
666-6102	REF PAV MRK TY I (W)36"(YLD TRI)(100MIL)	EA	\$45.00	9.00	\$405.00	(4.00)	5.00	\$225.00	(\$180.00)
666-6170	REFL PAV MRK TY II (W) 4" (SLD)	LF	\$0.11	18,894.00	\$2,078.34	(2,519.00)	16,375.00	\$1,801.25	(\$277.09)
666-6176	REFL PAV MRK TY II (W) 8" (DOT)	LF	\$0.46	111.00	\$51.06	(69.00)	42.00	\$19.32	(\$31.74)
666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF	\$0.30	2,031.00	\$609.30	(196.00)	1,835.00	\$550.50	(\$58.80)
666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	\$1.50	457.00	\$685.50	(43.00)	414.00	\$621.00	(\$64.50)
666-6184	REFL PAV MRK TY II (W) (ARROW)	EA	\$55.00	22.00	\$1,210.00	24.00	46.00	\$2,530.00	\$1,320.00
666-6192	REFL PAV MRK TY II (W) (WORD)	EA	\$65.00	14.00	\$910.00	(1.00)	13.00	\$845.00	(\$65.00)
666-6199	REFL PAV MRK TY II (W) 36" (YLD TRI)	EA	\$15.00	9.00	\$135.00	(4.00)	5.00	\$75.00	(\$60.00)
666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	\$0.12	4,980.00	\$597.60	(490.00)	4,490.00	\$538.80	(\$58.80)
666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	\$0.11	28,006.00	\$3,080.66	450.00	28,456.00	\$3,130.16	\$49.50
666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	\$0.33	18,894.00	\$6,235.02	(2,474.00)	16,420.00	\$5,418.60	(\$816.42)
666-6310	RE PM W/RET REQ TY I (Y)4"(BRK)(060MIL)	LF	\$0.33	4,980.00	\$1,643.40	(20.00)	4,960.00	\$1,636.80	(\$6.60)
666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	\$0.33	28,006.00	\$9,241.98	(60.00)	27,946.00	\$9,222.18	(\$19.80)
672-6007	REFL PAV MRKR TY I-C	EA	\$5.00	96.00	\$480.00	47.00	143.00	\$715.00	\$235.00
672-6009	REFL PAV MRKR TY II-A-A	EA	\$5.00	882.00	\$4,410.00	88.00	970.00	\$4,850.00	\$440.00
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	\$0.65	11,205.00	\$7,283.25	(4,087.00)	7,118.00	\$4,626.70	(\$2,656.55)
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	\$5.00	35.00	\$175.00	184.00	219.00	\$1,095.00	\$920.00
6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	\$33.00	120.00	\$3,960.00	217.00	337.00	\$11,121.00	\$7,161.00
506-WC002-1	EXTRA DEPTH OF MANHOLE, 6' DIA.	VF	\$565.00	8.00	\$4,520.00	(8.00)	0.00	\$0.00	(\$4,520.00)
J101-1	16" C-905, DR-18 PVC PIPE; W/ TRACER WIRE; INSTALLED	LF	\$68.00	10,834.00	\$736,712.00	30.00	10,864.00	\$738,752.00	\$2,040.00
J101-5	4" STEEL ENC. PIPE, BORED WITH 1" SERVICE LINE, DR-18 RJ CARRI	LF	\$89.00	519.00	\$46,191.00	123.00	642.00	\$57,138.00	\$10,947.00
J101-35	INSTALL NEW FIRE HYDRANTS ASSEMBLY; INSTALLED	EA	\$4,700.00	11.00	\$51,700.00	4.00	15.00	\$70,500.00	\$18,800.00
999-WC01	FORCE ACCOUNT	DOL	\$1.00	45,000.00	\$45,000.00	(27,135.93)	17,864.07	\$17,864.07	(\$27,135.93)
999-WC02	FORCE ACCOUNT - DEMOLITION (STORAGE UNIT SITE)	DOL	\$1.00	50,000.00	\$50,000.00	(50,000.00)	0.00	\$0.00	(\$50,000.00)
416-WC01	CORE HOLES FOR BRIDGES	EA	\$200.00	2.00	\$400.00	(2.00)	0.00	\$0.00	(\$400.00)
The "Totals" from Table B of the previous work sheet:					\$5,762,409.22			\$4,983,975.86	(\$778,433.36)
<b>TOTALS</b>					<b>\$6,749,787.68</b>			<b>\$5,928,198.44</b>	<b>(\$821,589.24)</b>



# CHANGE ORDER REASON(S) CODE CHART

<p>1. Design Error or Omission</p>	<p>1A. Incorrect PS&amp;E 1B. Other</p>
<p>2. Differing Site Conditions (unforeseeable)</p>	<p>2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&amp;E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other</p>
<p>3. County Convenience</p>	<p>3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other</p>
<p>4. Third Party Accommodation</p>	<p>4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other</p>
<p>5. Contractor Convenience</p>	<p>5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other</p>
<p>6. Untimely ROW/Utilities</p>	<p>6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other</p>

**Williamson County Road Bond Program**

**County Road 110 South  
Williamson County Project No. 1604-075**

**Change Order No. 4**

**Reason for Change**

This Change Order revises the north end of the project tying into existing CR 110 by shortening the limits due to an unacquired Right of Way tract. The proposed roadway taper to existing pavement is shortened to stay within acquired limits. This also simplifies the construction of Limmer Loop by notching and widening adjacent to the roadway rather than full pavement construction. Additional quantity for Type D PG 70-22 asphalt is added to pave the full width of Limmer Loop, rather than just the widening shown in the plans.

This Change Order also balances the plan quantity items to reflect what was installed for the project.

Plan sheets 102, 103, and 105 are revised. Cross-section sheets 85 thru 88 and 96 thru 98 are replaced.

The following new Contract items are required for these changes. The unit rates submitted by the Contractor are consistent with the TxDOT average low bid unit prices.

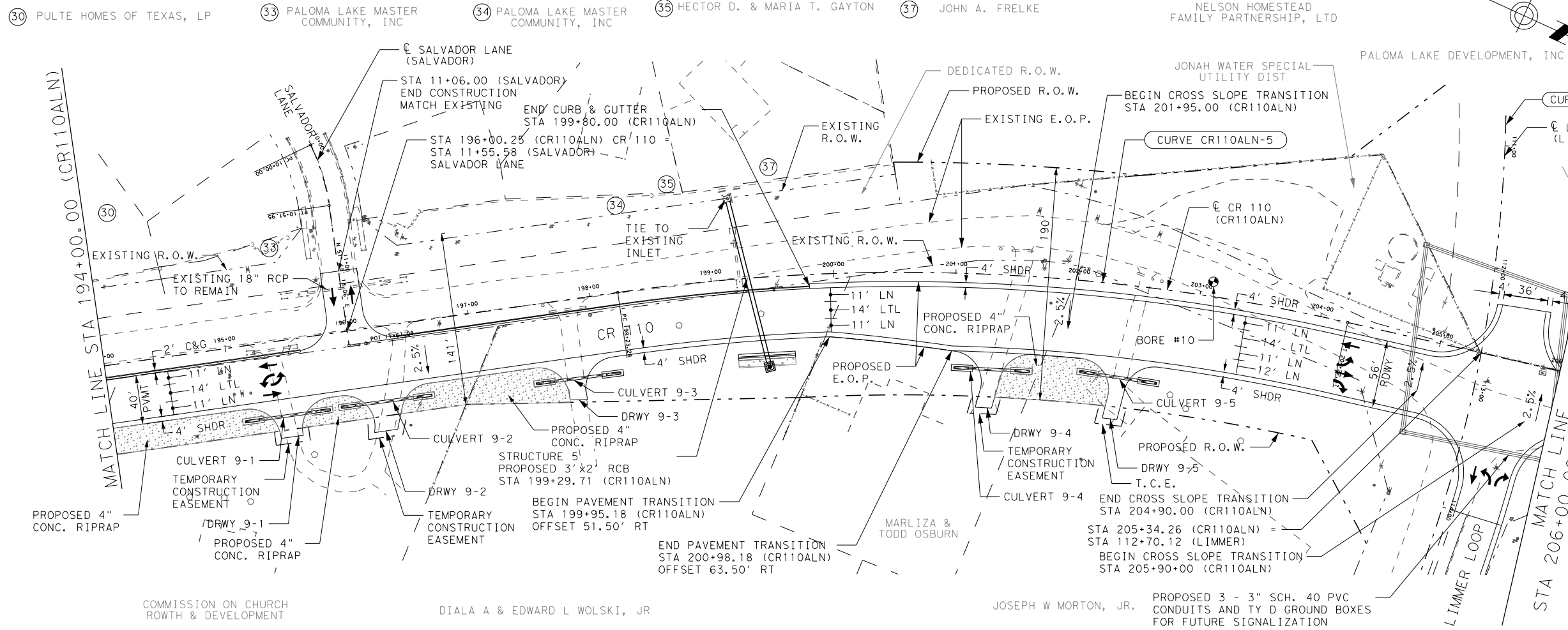
Following is a summary of new items required for this Change Order.

ITEM	DESCRIPTION	QTY	UNIT
0341-6064	D-GR HMA TY D PG70-22 (LEVEL-UP)	80	TON
9001-WC01	MATERIAL COST FOR UNUSED BOX CULVERTS	152	LF

This Change Order results in a net decrease of \$932,493.87 to the Contract amount, for an adjusted Contract total of \$10,320,910.58. The original Contract amount was \$11,224,589.02. Because of this and all Change Orders to-date, \$903,678.44 has been deducted from the Contract, resulting in an 8.1% net decrease in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

**HNTB Corporation**

James Klotz, P.E.



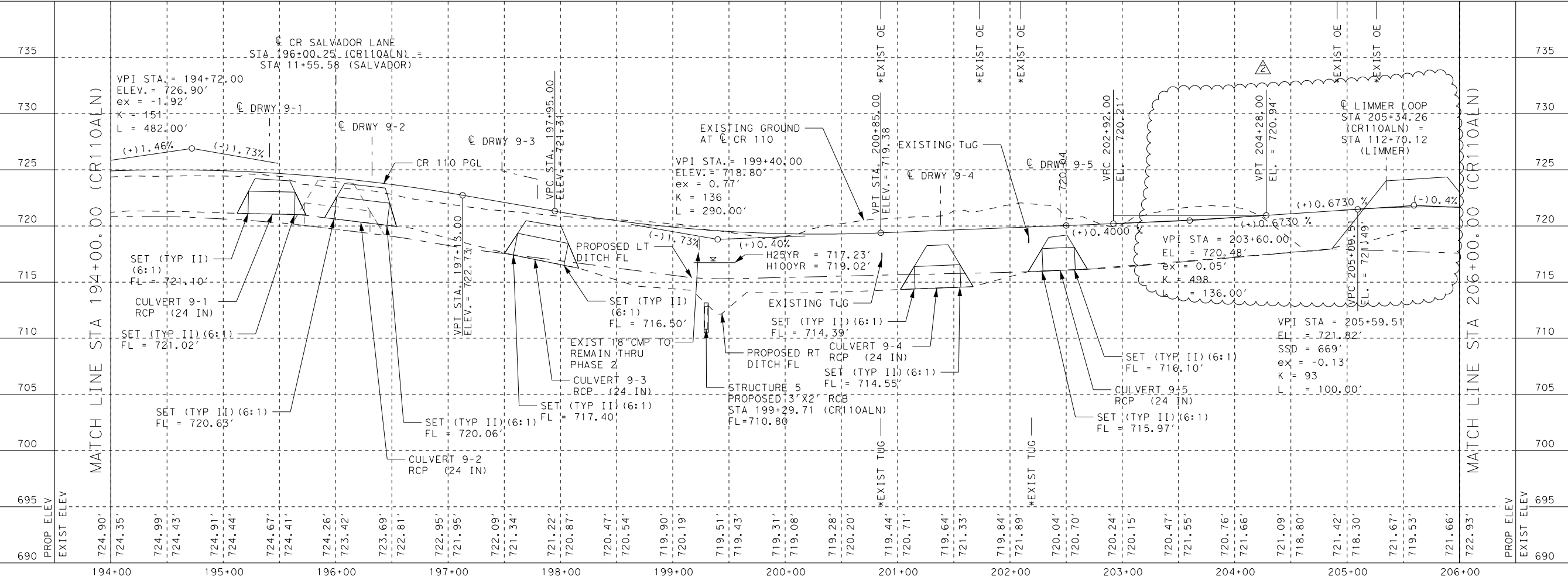
**LEGEND**

- TUG UNDERGROUND TELEPHONE
- OE OVERHEAD ELECTRIC
- OU OVERHEAD UTILITY
- W EXIST WATER LINE
- WW EXIST WASTE WATER LINE
- G EXIST GAS LINE
- FO FIBER OPTIC LINE

H: 0' 25' 50' 100'  
V: 0' 5' 10'

- NOTES:**
1. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE INFORMATION.
  2. ALL WORK TO BE COORDINATED WITH ANY ONGOING UTILITY RELOCATIONS AND WITH ANY WORK ASSOCIATED WITH ADJACENT PROJECTS.
  3. SEE INTERSECTION DETAIL SHEETS FOR ALIGNMENT TIES AND GEOMETRIC LAYOUT OF INTERSECTING ROADWAYS.
  4. SEE REMOVAL PLAN SHEETS FOR LIMITS OF EXISTING PAVEMENT REMOVAL.
  5. SEE CULVERT CROSS SECTIONS AND BOX CULVERT SUPPLEMENT FOR DRAINAGE STRUCTURE DETAILS.
  6. LOCATION OF UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
  7. SEE DRIVEWAY SUMMARY AND DETAILS SHEET FOR DRIVEWAY DIMENSIONS, GRADES, QUANTITIES & T.C.E.
  8. SEE RETAINING WALL SHEETS FOR RETAINING WALL SIZES, LOCATIONS, & DETAILS.
  9. BORE LOCATIONS ARE APPROXIMATE. SEE PROJECT MANUAL FOR DETAILS.
  10. UTILITY ELEVATIONS UNKNOWN UNLESS OTHERWISE SHOWN.

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1/5/2018

DATE	BY	REV	REVISION
12/18/2017	NA	1	PROFILE REVISION
01/05/2018	NA	2	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

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**CR 110 SOUTH**

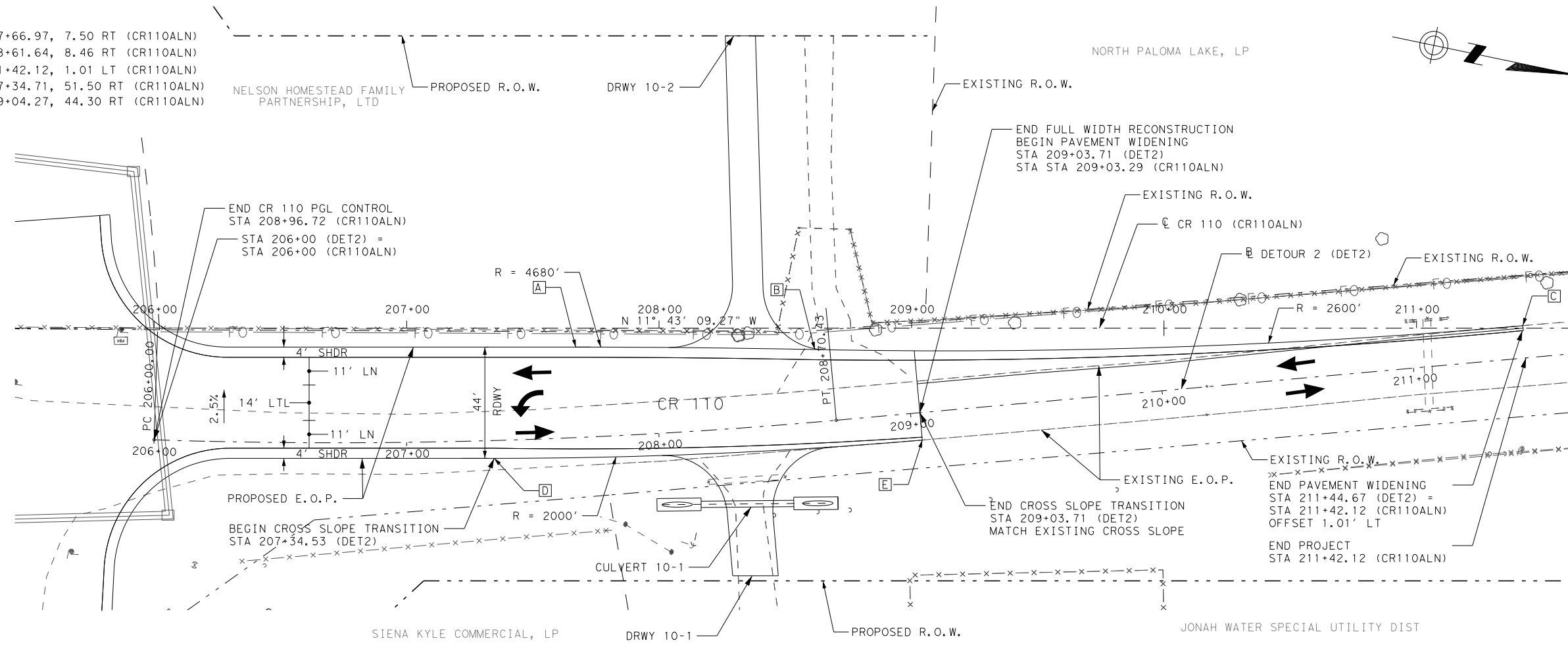
**ROADWAY PLAN AND PROFILE**

STA 194+00 TO STA 206+00  
 SCALE: HORIZONTAL 1"=100'  
 VERTICAL 1"=10'

SHEET 9 OF 12

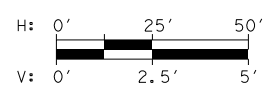
DESIGNED:	TGL		
DRAWN:	PRP		
CHECKED:	GV		
STATE:	COUNTY:	PRECINCT:	SHEET NO.:
TXAS	WILLIAMSON	4	102

- A STA 207+66.97, 7.50 RT (CR110ALN)
- B STA 208+61.64, 8.46 RT (CR110ALN)
- C STA 211+42.12, 1.01 LT (CR110ALN)
- D STA 207+34.71, 51.50 RT (CR110ALN)
- E STA 209+04.27, 44.30 RT (CR110ALN)

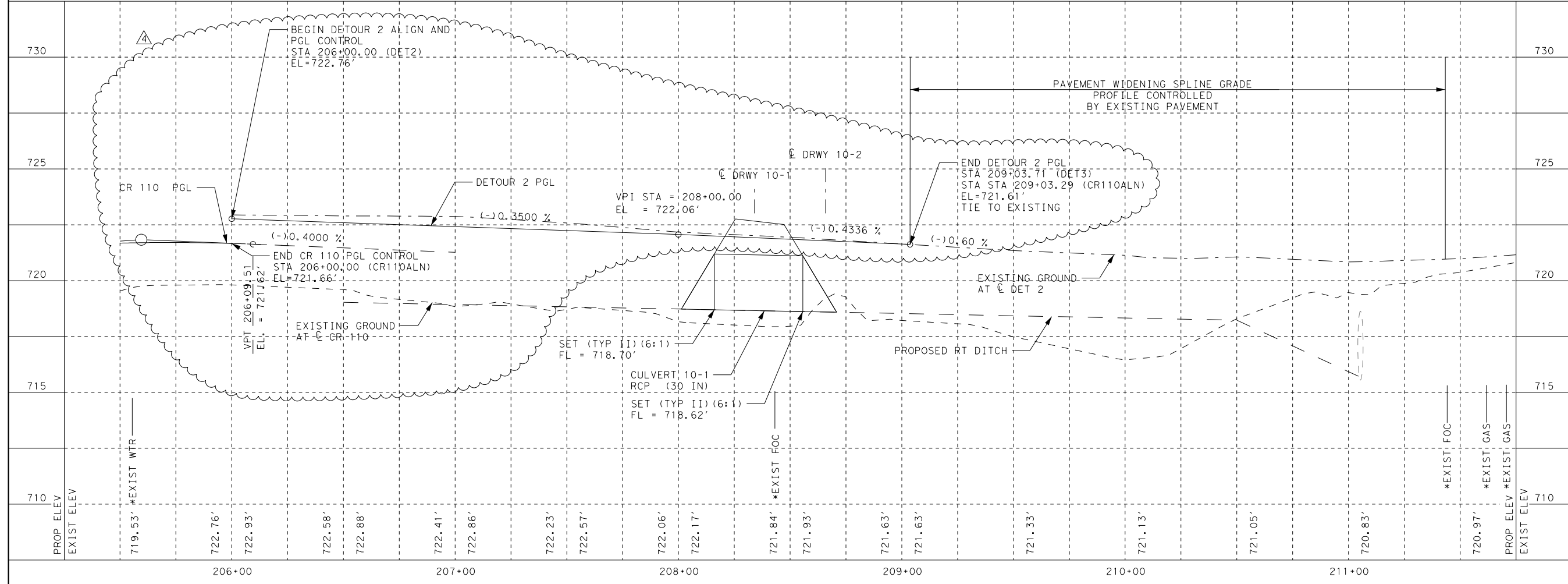


**LEGEND**

- TUG UNDERGROUND TELEPHONE
- OE OVERHEAD ELECTRIC
- OU OVERHEAD UTILITY
- W EXIST WATER LINE
- WW EXIST WASTE WATER LINE
- G EXIST GAS LINE
- FO FIBER OPTIC LINE



- NOTES:**
1. SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE INFORMATION.
  2. ALL WORK TO BE COORDINATED WITH ANY ONGOING UTILITY RELOCATIONS AND WITH ANY WORK ASSOCIATED WITH ADJACENT PROJECTS.
  3. SEE INTERSECTION DETAIL SHEETS FOR ALIGNMENT TIES AND GEOMETRIC LAYOUT OF INTERSECTING ROADWAYS.
  4. SEE REMOVAL PLAN SHEETS FOR LIMITS OF EXISTING PAVEMENT REMOVAL.
  5. SEE CULVERT CROSS SECTIONS AND BOX CULVERT SUPPLEMENT FOR DRAINAGE STRUCTURE DETAILS.
  6. LOCATION OF UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
  8. SEE DRIVEWAY SUMMARY AND DETAILS SHEET FOR DRIVEWAY DIMENSIONS, GRADES, QUANTITIES & T.C.E.
  9. SEE RETAINING WALL SHEETS FOR RETAINING WALL SIZES, LOCATIONS, & DETAILS.
  10. BORE LOCATIONS ARE APPROXIMATE. SEE PROJECT MANUAL FOR DETAILS.
  - \*11. UTILITY ELEVATIONS UNKNOWN UNLESS OTHERWISE SHOWN.



DATE	BY	REV	REVISION
11/02/16	NA	1	CULVERT REVISION
09/25/17	NA	2	CR110 TIE IN
12/18/17	NA	3	PROFILE REVISION
01/05/18	NA	4	PROFILE REVISION

**DANNENBAUM**  
ENGINEERING COMPANY - AUSTIN, LLC  
T.B.P.E. FIRM REGISTRATION #8995  
3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

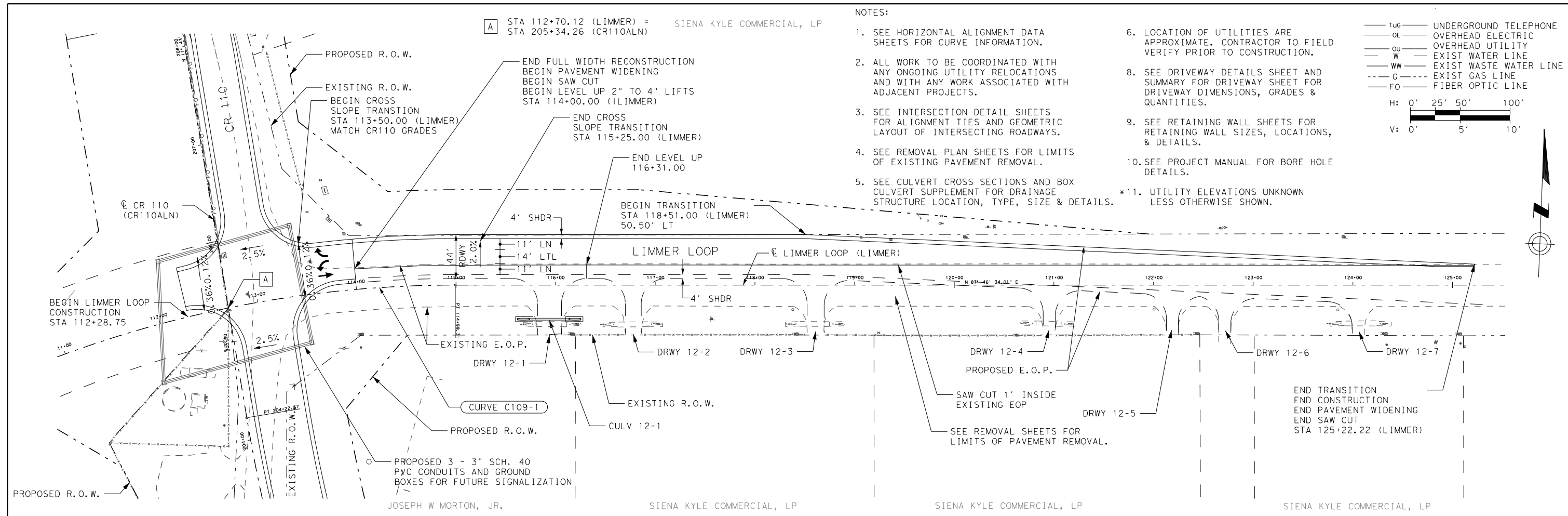
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**CR 110 SOUTH**  
**ROADWAY PLAN AND PROFILE**  
STA 206+00 TO END

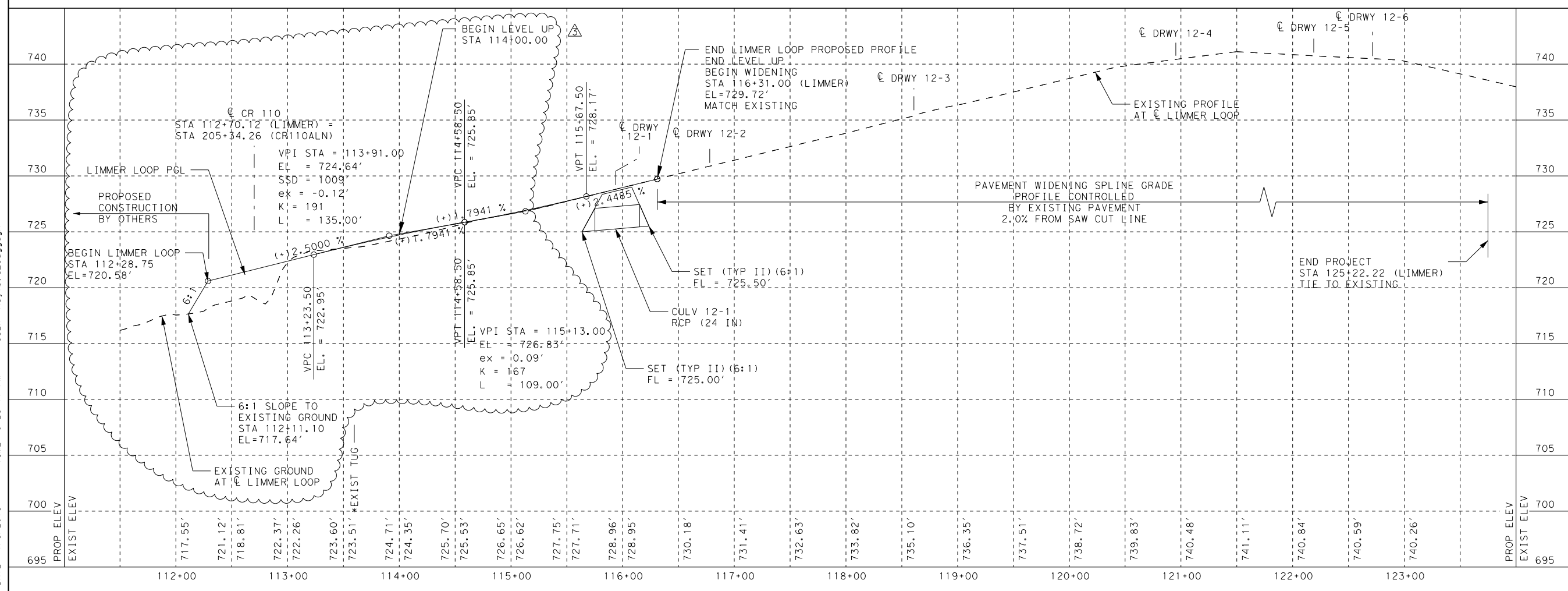
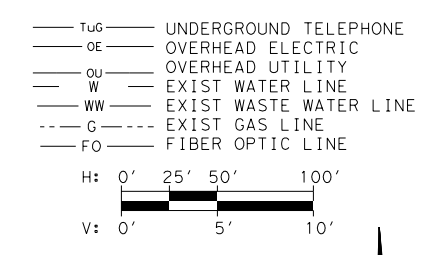
SHEET 10 OF 12

DESIGNED:	TGL		
DRAWN:	PRP		
CHECKED:	GV		
STATE:	COUNTY:	PRECINCT:	SHEET NO.:
TEXAS	WILLIAMSON	4	103

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- NOTES:
- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE INFORMATION.
  - ALL WORK TO BE COORDINATED WITH ANY ONGOING UTILITY RELOCATIONS AND WITH ANY WORK ASSOCIATED WITH ADJACENT PROJECTS.
  - SEE INTERSECTION DETAIL SHEETS FOR ALIGNMENT TIES AND GEOMETRIC LAYOUT OF INTERSECTING ROADWAYS.
  - SEE REMOVAL PLAN SHEETS FOR LIMITS OF EXISTING PAVEMENT REMOVAL.
  - SEE CULVERT CROSS SECTIONS AND BOX CULVERT SUPPLEMENT FOR DRAINAGE STRUCTURE LOCATION, TYPE, SIZE & DETAILS.
  - LOCATION OF UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
  - SEE DRIVEWAY DETAILS SHEET AND SUMMARY FOR DRIVEWAY SHEET FOR DRIVEWAY DIMENSIONS, GRADES & QUANTITIES.
  - SEE RETAINING WALL SHEETS FOR RETAINING WALL SIZES, LOCATIONS, & DETAILS.
  - SEE PROJECT MANUAL FOR BORE HOLE DETAILS.
  - UTILITY ELEVATIONS UNKNOWN LESS OTHERWISE SHOWN.



THOMAS CARL ARNDT  
 59135  
 REGISTERED PROFESSIONAL ENGINEER

*Thomas Arndt*  
 1/5/2018

DATE	BY	REV	REVISION
09/25/17	NA	1	LEVEL UP LIMMER LP
12/18/17	NA	2	PROFILE REVISION
01/05/18	NA	3	PROFILE REVISION

**DANNENBAUM**  
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**CR 110 SOUTH**

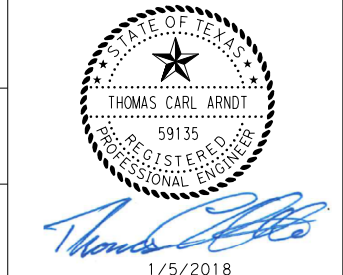
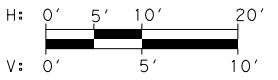
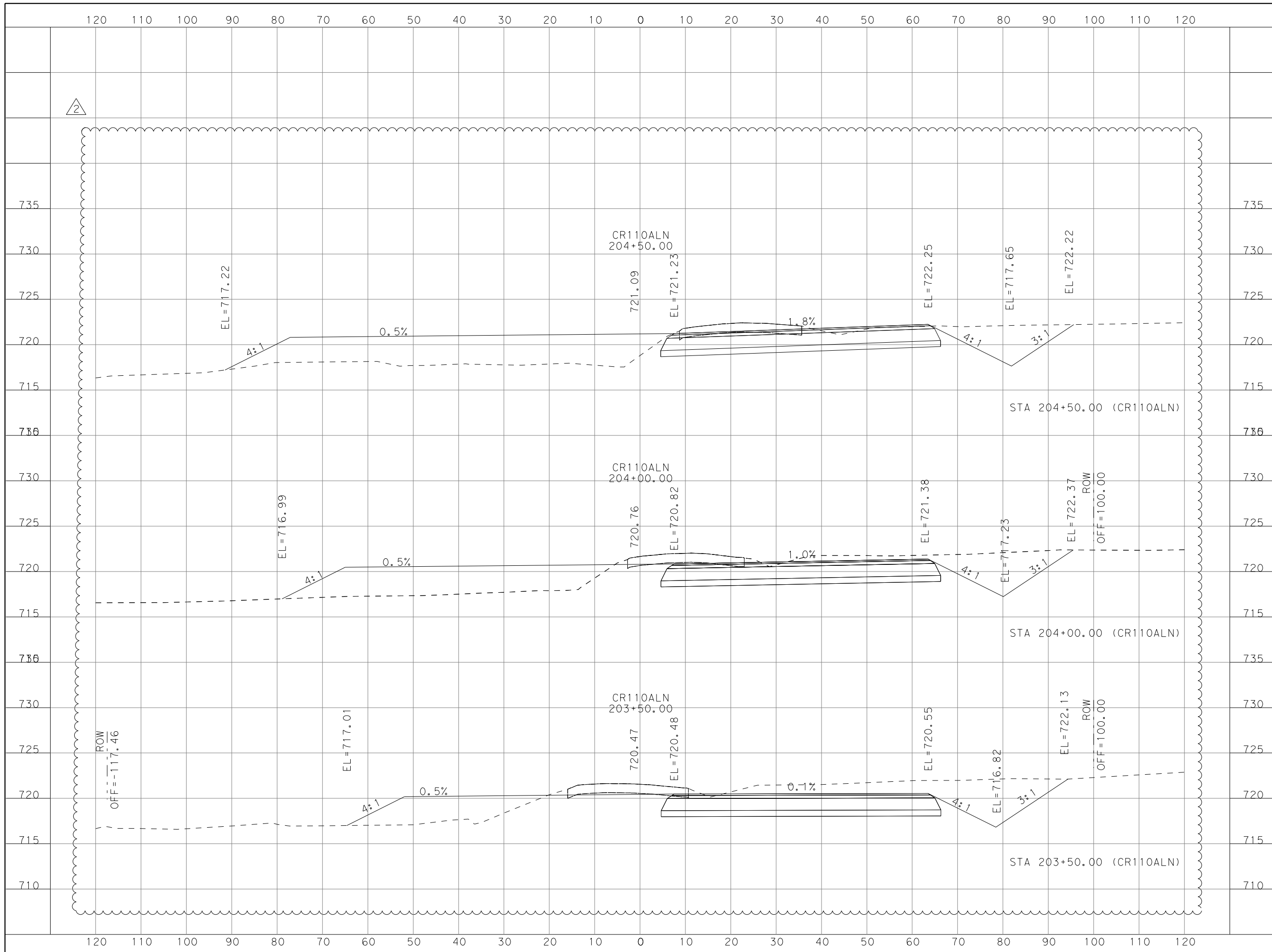
**ROADWAY PLAN AND PROFILE**  
 LIMMER LOOP

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

SHEET 12 OF 12

DESIGNED:	TGL		
DRAWN:	PRP		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	105

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DATE	BY	REV	REVISION
12/18/17	NA	1	PROFILE REVISION
01/05/18	NA	2	PROFILE REVISION

**DANNENBAUM**  
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 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

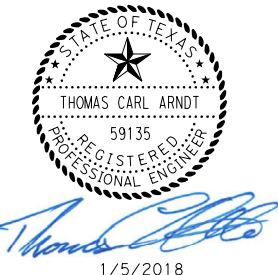
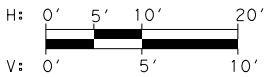
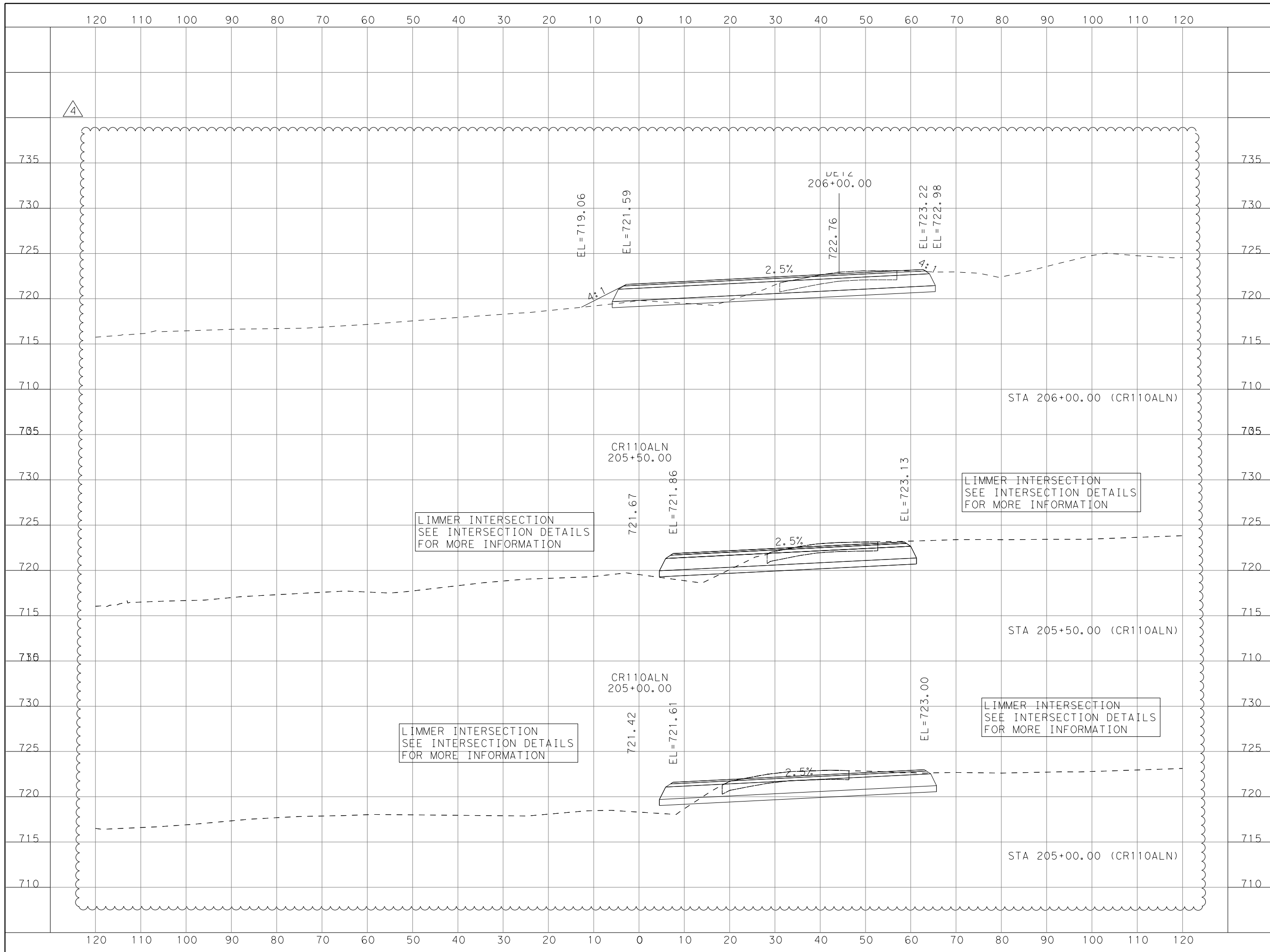


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 CR 110 SOUTH  
 CR 110 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'  
 SHEET 85 OF 95

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	85

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DATE	BY	REV	REVISION
11/01/16	NA	1	CULVERT REVISION
09/25/17	NA	2	CR110 TIE IN
12/18/17	NA	3	PROFILE REVISION
01/05/18	NA	4	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

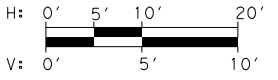
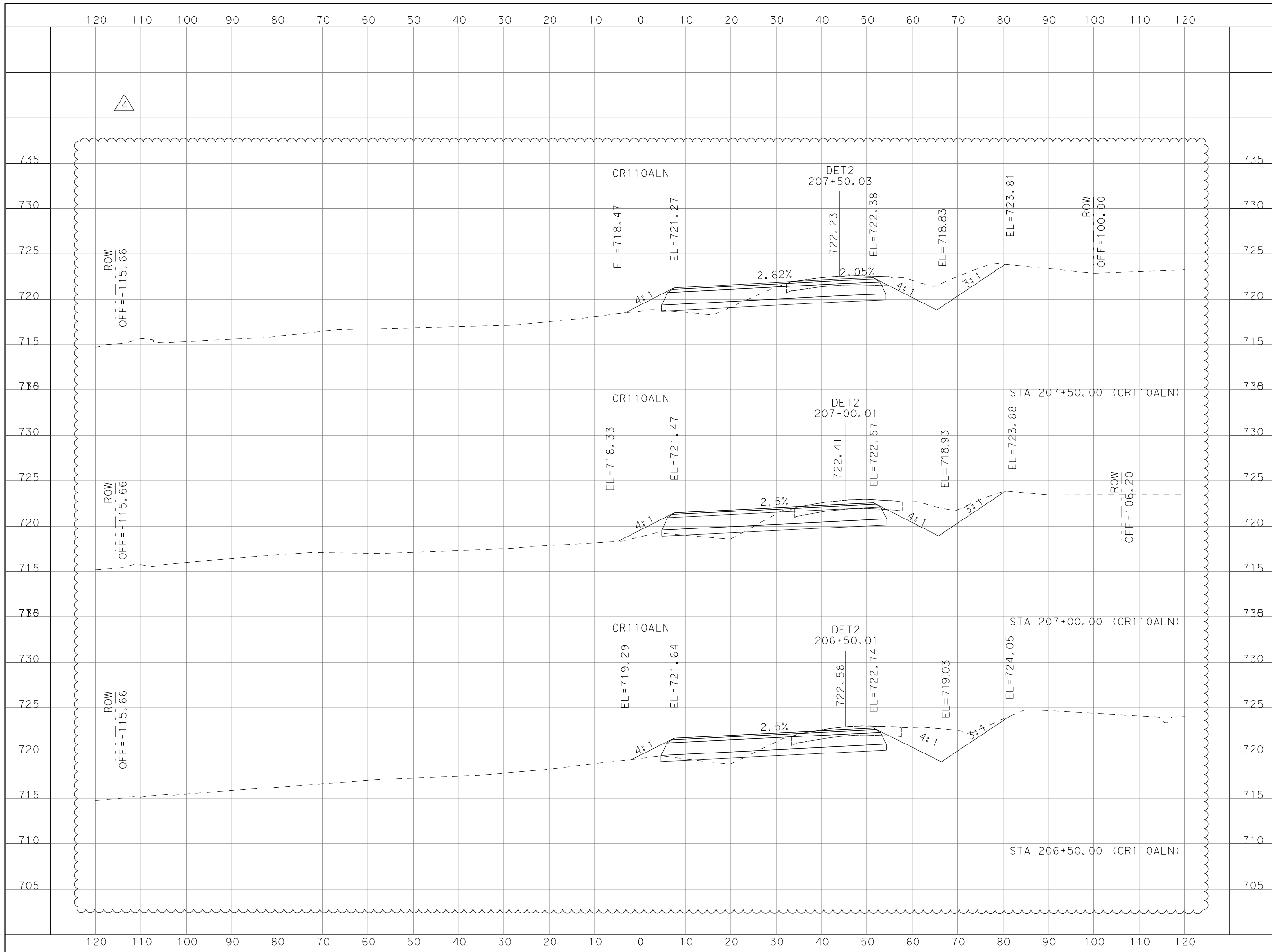
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CR 110 SOUTH  
 CR 110  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'  
 SHEET 86 OF 95

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	86

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*Thomas Arndt*  
 1/5/2018

DATE	BY	REV	REVISION
11/01/16	NA	1	CULVERT REVISION
09/25/17	NA	2	CR110 TIE IN
12/18/17	NA	3	PROFILE REVISION
01/05/18	NA	4	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

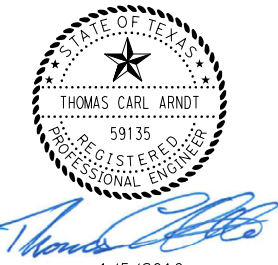
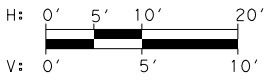
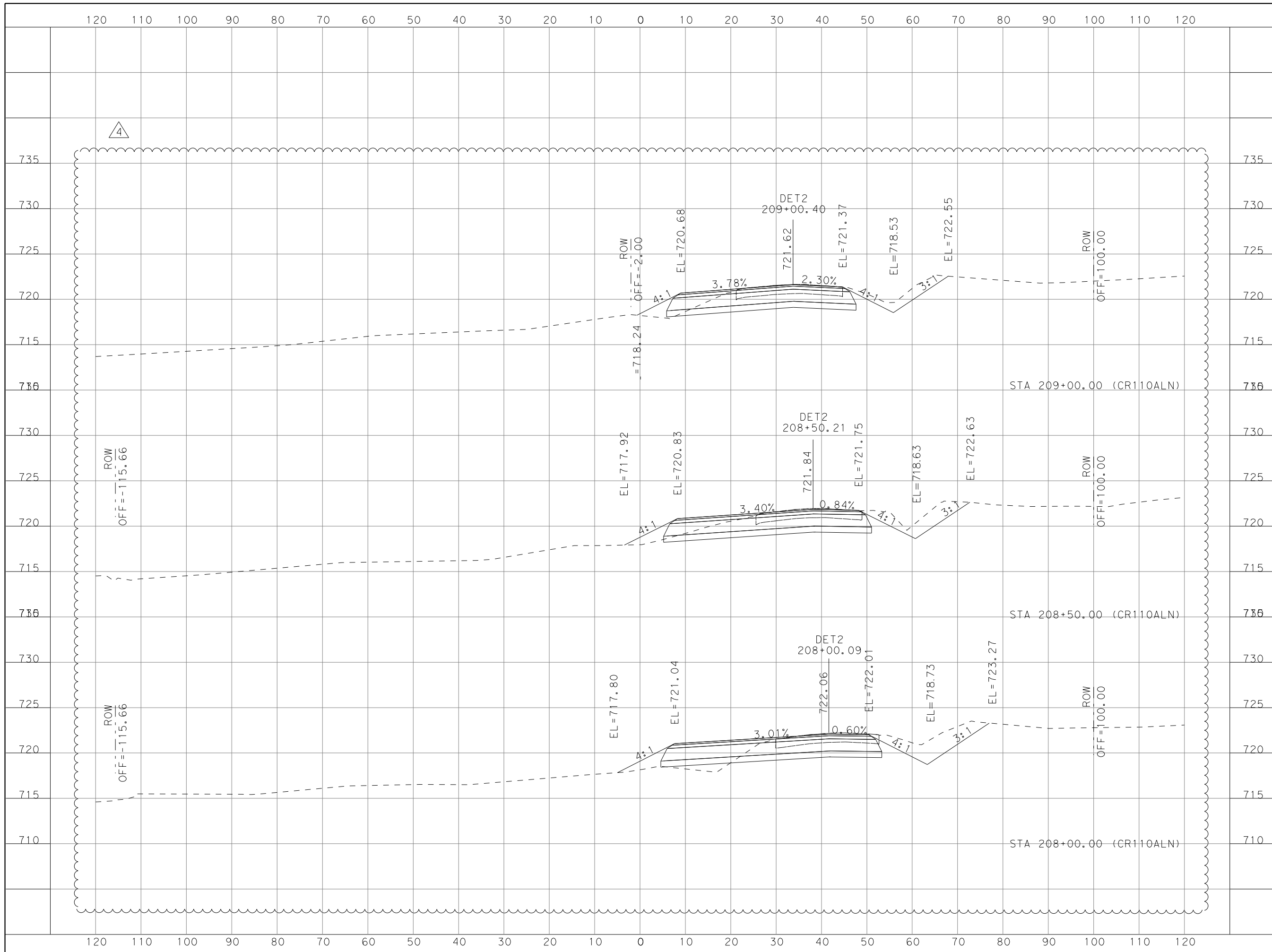
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CR 110 SOUTH  
 CR 110  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'  
 SHEET 87 OF 95

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	87

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DATE	BY	REV	REVISION
11/01/16	NA	1	CULVERT REVISION
09/25/17	NA	2	CR110 TIE IN
12/18/17	NA	3	PROFILE REVISION
01/05/18	NA	4	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

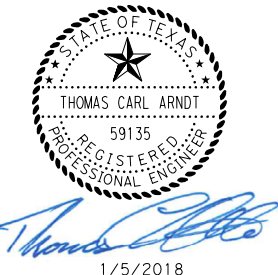
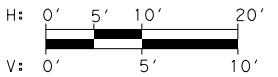
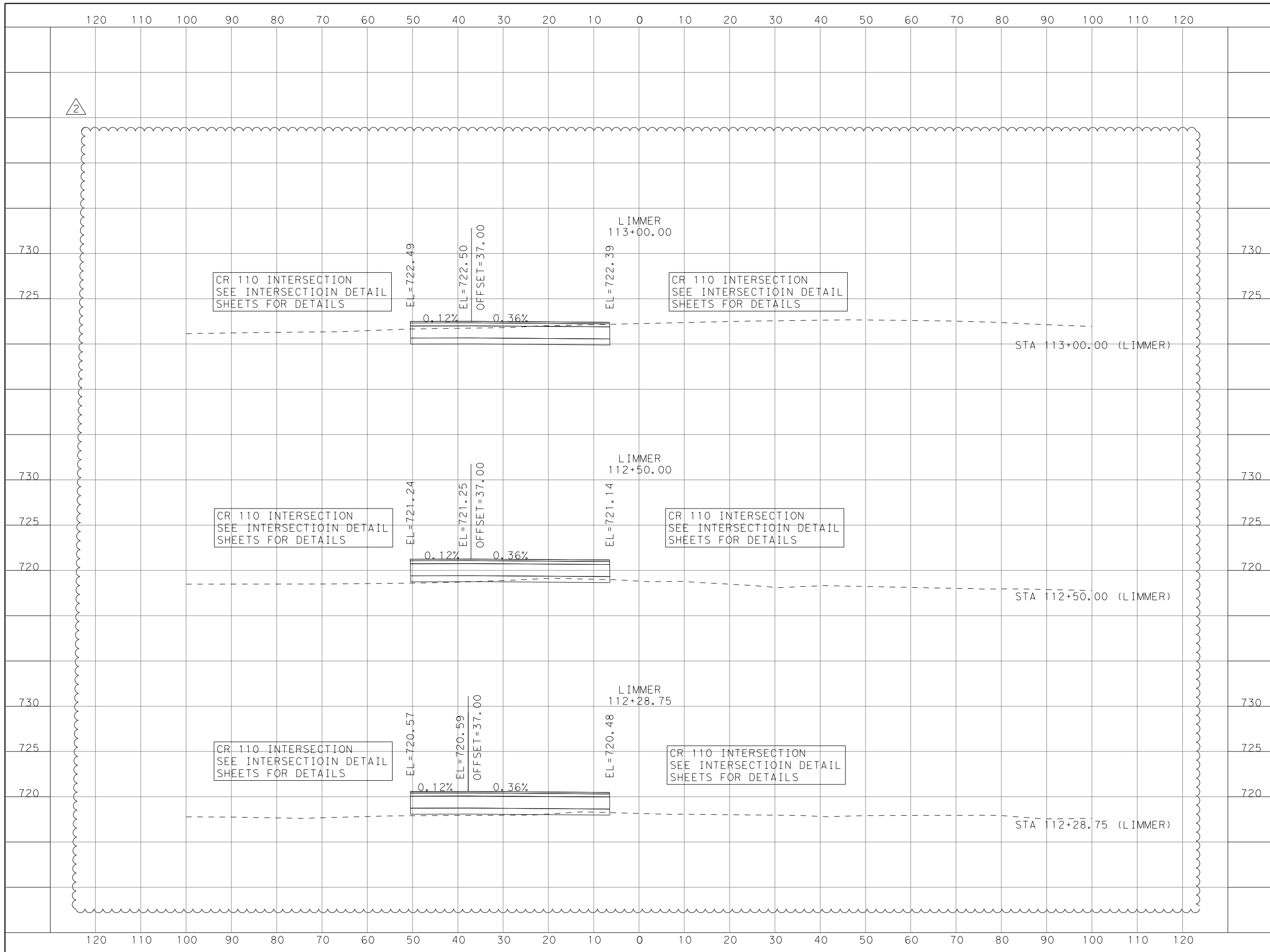
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CR 110 SOUTH  
 CR 110  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'  
 SHEET 88 OF 95

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	88

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DATE	BY	REV	REVISION
12/18/17	NA	1	PROFILE REVISION
01/05/18	NA	2	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
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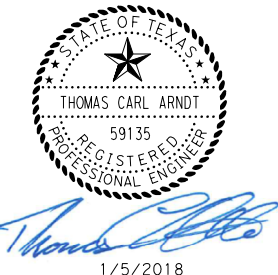
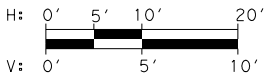
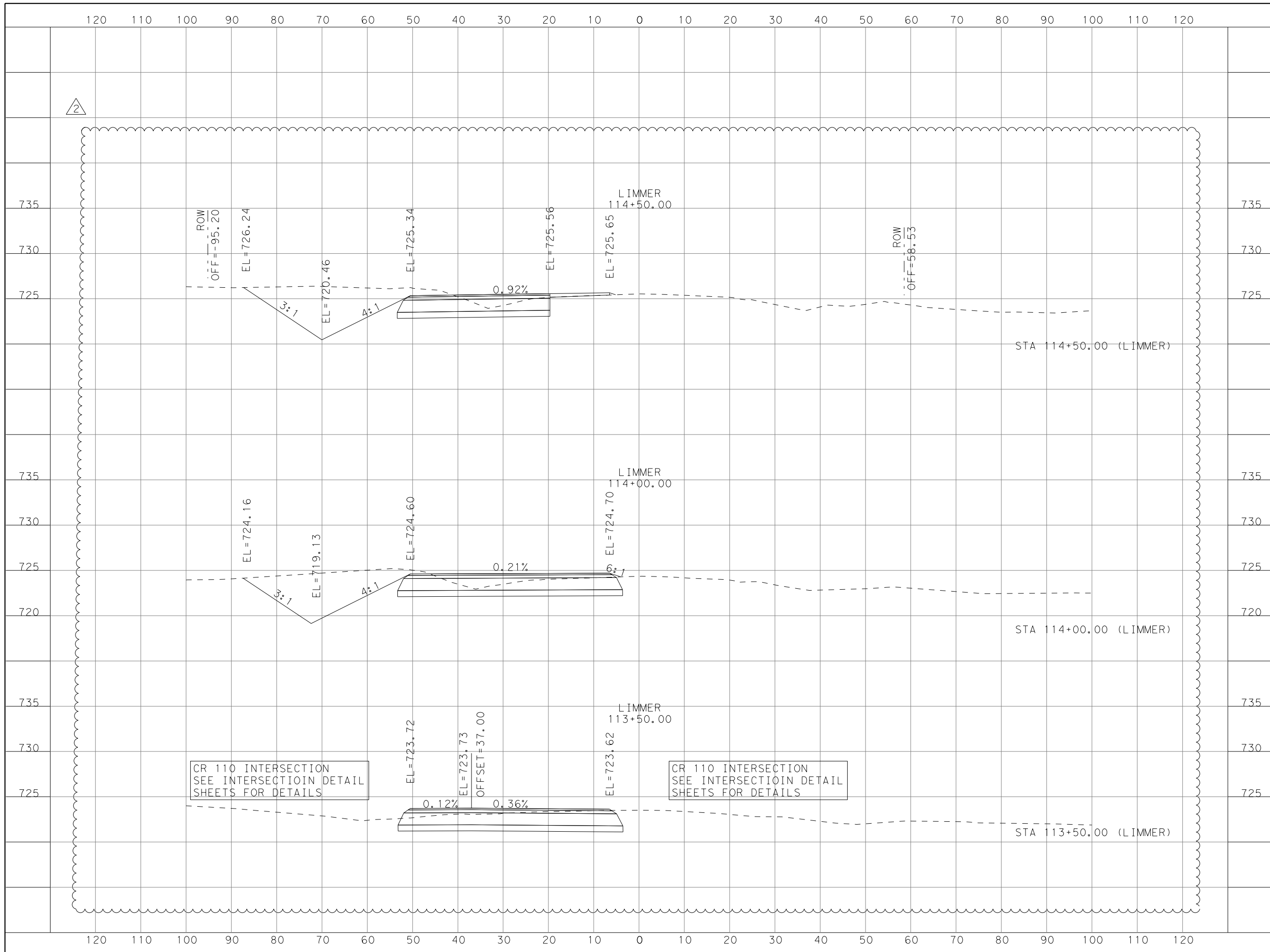
CR 110 SOUTH  
 LIMMER LOOP  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

SHEET 1 OF 9

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	96

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DATE	BY	REV	REVISION
12/18/17	NA	1	PROFILE REVISION
01/05/18	NA	2	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505

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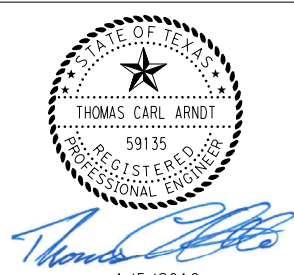
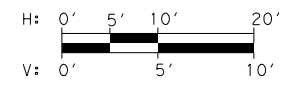
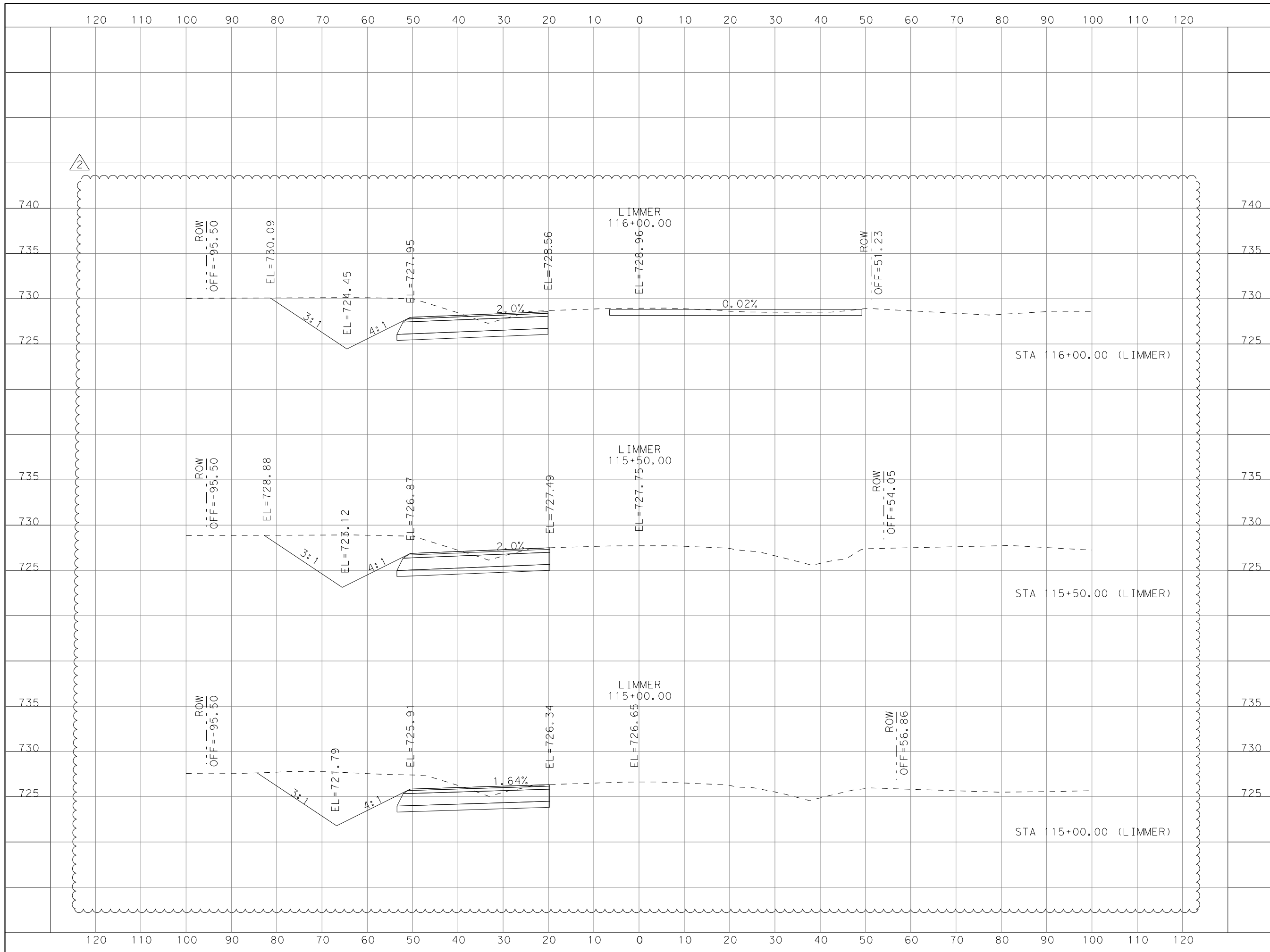
CR 110 SOUTH  
 LIMMER LOOP  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

SHEET 2 OF 9

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	97

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DATE	BY	REV	REVISION
12/18/17	NA	1	PROFILE REVISION
01/05/18	NA	2	PROFILE REVISION

**DANNENBAUM**  
 ENGINEERING COMPANY - AUSTIN, LLC  
 T.B.P.E. FIRM REGISTRATION #8995  
 3409 EXECUTIVE CENTER DR., STE 129 AUSTIN, TX 78731 (512) 345-8505



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 CR 110 SOUTH  
 LIMMER LOOP  
 CROSS SECTIONS

SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'  
 SHEET 3 OF 9

DESIGNED:	JH		
DRAWN:	JH		
CHECKED:	GV		
STATE	COUNTY	PRECINCT	SHEET NO.
TEXAS	WILLIAMSON	4	98