Form 2146-L
(Rev. 10/11)
Page 1 of 1

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 5

1. CONTRACTOR: REIM Construction, Inc.

2. Change Order Work Limits: Sta. 157+30 to Sta. 282+00

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

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

1) Connect and install 18" RCP and 2 Jnt Boxes into the back of MH A17(Sta 159+04) to provide drainage to the north side of Liberty Road.
2) Redesign the riprap slopes on the south side of Mile 3 to minimize the heavy erosion causes by rain events. Riprap as much of the south side slopes as possible to minimize erosion. Remove all of the riprap on the north side of Mile 3, due to the ROW restrictions. 3.) Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

CCSJ:	0921-02-321
Project:	STP 2021(256) MM
Highway:	Mile 3 N
County:	Hidalgo
District:	21-Pharr
Contract Number:	C-20-294-02-23

5. New or revised plan sheet(s) are attached and numbered: 14c,16a,250c,266b,170a,176a,177a,178a,180a,181a,183a,184a, 186a, 187a.

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

By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.

THE CONTRACTOR Date 8/4/22

By _____

Typed/Printed Name Miguel A. Ramos

Typed/Printed Title President

The following information must be provided

Time Ext. #: 3 Days added on this C.O.: 15

Amt. added by this change order: $100,615.00

For TxDOT use only:

Days participating: ____

Amount participating: ____

Signature Date

Name/Title

RECOMMENDED FOR EXECUTION:

Name/Title Date 8/3/2022

Name/Title Date

☐ APPROVED ☐ REQUEST APPROVAL

Name/Title Date

Richard F. Cortez, County Judge

Name/Title Date

☐ APPROVED ☐ REQUEST APPROVAL

Name/Title Date

Arturo Guajardo, Jr., County Clerk

Name/Title Date

☐ APPROVED ☐ REQUEST APPROVAL

Name/Title Date

☐ APPROVED

Engineer's Seal:

STATE OF TEXAS
S. R. MUNOZ
71364
LICENSED
PROFESSIONAL ENGINEER

8/3/2022

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS' COURT ON September 6, 2022.
Agenda Item No. 87147 **Executive Office: _____**

VENDOR:
REIM Construction, Inc.

_____
Miguel A. Ramos, President

COUNTY:
COUNTY OF HIDALGO

_____
Hon. Richard F. Cortez, County Judge

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

ATTACHMENTS:
(If Applicable)

SUPPLEMENTAL SIGNATURES:
(If Applicable)

Engineer:

_____
Saul R. Muñoz, Director of CEI Department

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 5

Estimated Cost:

CCSJ: 0921-02-321

Paid by Invoice? (☐ Yes ☒ No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

TABLE B: Contract Items

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
464-6038	RC PIPE (CL III)(18 IN)(SPL)	LF	42.25	4,720.00	199,420.00	4,841.00	204,532.25	5,112.25
465-6070	INLET(COMP)(PSL)(RC)(3FT X 3FT)	EA	2,340.00	1.00	2,340.00	3.00	7,020.00	4,680.00
432-6001	RIPRAP (CONC) (4 IN)	CY	376.00	2,387.00	897,512.00	2,618.00	984,368.00	86,856.00
531-6001	CONC SIDEWALKS (4")	SY	32.25	18,828.00	607,203.00	18,951.00	611,169.75	3,966.75
TOTALS					1,706,475.00		1,807,090.00	100,615.00

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 5

TABLE B: Contract Items (Continued) CCSJ: 0921-02-321

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN

Change Order #5
Mile 3 N Road

To: REIM Construction, Inc.
9612 Stewart Rd.
Mission, Texas 78573

From Owner: Hidalgo County Precinct #3
and: B2Z Engineering, LLC

Project: Mile 3 N Road
Project #: STP 2021 (256) MM
Contract: C-20-294-02-23
CSJ: 0921-02-321
Limits: Tom Gill Road to FM 492 (Goodwin Road)

Change Order #5 - in the amount of $100,615.00 and 15 days has been reviewed and approved by Hidalgo County Precinct 3 to make the following contract changes.

Purpose:

Change Order #5 adds to the original Mile 3 contract by 1) providing drainage to the north side of Mile 3 for Liberty Road, 2) redesigning the riprap slopes on the north and south sides of Mile 3 to match field conditions and minimize erosion, and 3) redesigning the sidewalks on the north and south side of Mile 3 to match the riprap slopes. CO #5 only uses existing items to increase or decrease quantities.
Precinct #3 has reviewed and approved the modifications provided herein Change Order #5.

Description:

Liberty Road Drainage (North)

The Mile 3 project intersects Liberty Road and drainage was not provided on the north side where water collects in ditches. CO #5 adds 18" RCP and 2-3'x3' junction boxes that connect to MH A17 to manage the runoff from the adjacent subdivisions.

4" Riprap

The Mile 3 project is proposing 4" of riprap on both sides of Mile 3 due to high embankment slopes that are adjacent to the ROW. The riprap is used to minimize the erosion on slopes and creates an aesthetically pleasing project. Since utilities had to be relocated on the north side of Mile 3, slopes were pushed back to place poles at the ROW line. The north side of Mile 3 no longer requires slope protection within the ROW, and the riprap is being removed and placed on the south side of Mile 3. The south side was designed to only place the riprap on slopes steeper than a 3:1, the project has two unprotected segments in the middle that are showing signs of heavy erosion after heavy rain events. The rain is creating deep trenches and silt runoff will be a future maintenance problem for Precinct 3.

4" Sidewalks

The Mile 3 sidewalks are designed to change width wherever the riprap is located. The riprap segments were designed with 8' sidewalks and 5' everywhere else. The north side of Mile 3 will construct 5' sidewalks the length of the project. The south side of Mile 3 will have both 5' and 8' sidewalks the length of the project.

Hidalgo County is fully aware of this Change Order #5 and agrees to modify the current schedule of values to reflect the changes. The original plans were prepared by Consultant L&G Engineering, and the change order modifications were prepared by B2Z Engineering. Change order #5 has been signed by both the Contractor and AE and is ready for execution. The Mile 3 project is currently under construction and the contractor is awaiting TxDOT concurrence to incorporate the changes for payment.

These changes do not require additional ROW. The changes do not impact the original environmental assessment, do not impact TDLR elements, do not impact wetlands, and do not impact waters of the US, archeological, historical, or social issues, endangered species, any other regulated areas within the project. This change order does not cause a disturbance that would require modification to the Construction Site Notice (CSN) or Notice of Intent (NOI).

B2Z has reviewed the change order with Hidalgo County Precinct 3, to explain the breakdown of the items and dollar value changes according to the governing Specification 1L-9L. Attached, see TxDOT Change Order Form 2146-L used to describe bid item changes and cost changes.

Modified Sheet No. include, **14c, 16a, 17a, 250c, 266b, m170a, 176a, 177a, 178a, 180a, 181a, 183a, 186a and 187a** are attached.

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price $14,028,648.44	Original Contract Time 480 Working Days
Previous Change Orders -$234,578.08	Previous Change Orders 82 Working Days

Contract Price prior to this Change Order 13,794,070.36	Contract Time prior to this Change Order 562 Working Days
Net **increase/decrease** of the Change Order $100,615.00	Net **increase/decrease** of the Change Order 15 Working Days
Contract Price with all approved Change Orders $13,894,685.36	Contract Time with all approved Change Orders 577 Working Days

Mile 3 N Road Project - Change Order #5

Item Nr.	Item Description	Units	Original Quantity	NEW	Diferrence	Average Daily Production	Days Requested
464-6038	RC PIPE (CL III)(18 IN)(SPL)	LF	4,720.00	4,841.00	121.00	60.00	2.00
465-6070	INLET(COMP)(PSL)(RC)(3FT X 3FT)	EA	1.00	3.00	2.00	1.00	2.00
432-6001	RIPRAP (CONC) (4 IN)	CY	2,387.00	2,618.00	231.00	30.00	8.00
531-6001	CONC SIDEWALKS (4")	SY	18,828.00	18,951.00	123.00	40.00	3.00
						Total Days:	**15.00**

CO #5
18" RCP Changes

	18" RCP	
	121	
	72	
	65	
	75	
	76	
	77	
	65	
	66	
	63	
Line A Totals	680	Sht 250c

	680	
	1338	
	2823	
Totals 18"	4841	Sht 14c

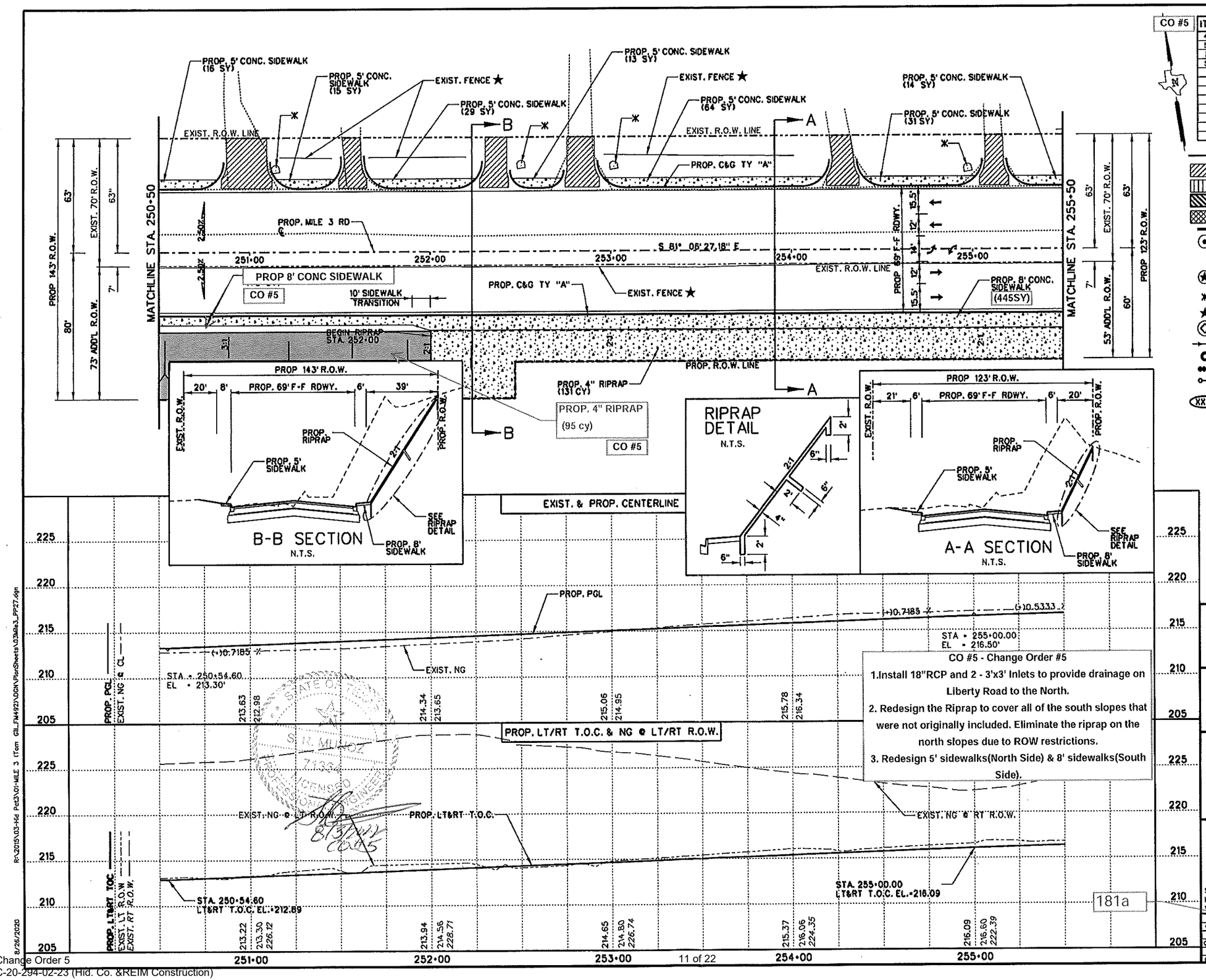
CO #5
Riprap Changes

	Riprap	
Sht 12	0	
	2	
	8	
	2	
Sht 18	0	
Sht 19	234	
Sht 20	315	
	317	
Sht 22	317	
Sht 23	226	
	180	
	165	
Sht 26	149	
	181	
Sht 28	181	
Sht 29	181	
	51	
	99	
	10	
Total	2618	CY
PQ	2387	CY
Difference	231	CY
Price	$ 376.00	
Total	$ 86,856.00	

CO #5
Sidewalk Changes

	Before	After
Sheet 2	242	242
Sheet 3	445	445
Sheet 4	464	464
Sheet 5	459	459
Sheet 6	458	458
Sheet 7	416	416
Sheet 8	558	558
Sheet 9	402	402
Sheet 10	384	384
Sheet 11	479	479
Sheet 12	556	556
Sheet 13	556	556
Sheet 14	556	556
Sheet 15	319	319
Sheet 16	556	556
Sheet 17	556	556
Sheet 18	552	531
Sheet 19	841	674
Sheet 20	841	723
Sheet 21	620	620
Sheet 22	478	627
Sheet 23	578	627
Sheet 24	691	691
Sheet 25	714	714
Sheet 26	678	678
Sheet 27	646	646
Sheet 28	541	723
Sheet 29	674	723
Sheet 30	565	565
Sheet 31	556	556
Sheet 32	452	452
Sheet 33	482	482
Sheet 34	549	549
Sheet 35	463	463
Sheet 36	447	447
Sheet 37	54	54
	18828	18951

Difference	123
Price	$ 32.25
Total	$ 3,966.75



CO #5 - Change Order #5

1. Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.
2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.
3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

SHEET SUMMARY

CO #	ITEM	DESCRIPTION	UNIT	QUANTITY
	432	CONC. RIPRAP (4")	CY	226
	529	CONC. CURB & GUTTER (TY "A")	LF	1000
	531	CONC. SIDEWALK (4")	SY	627
	560	MAILBOX INSTALLATION (SINGLE)	EA	4

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:

1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

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L&G Engineering
Highway / Civil
Structural / Bridge
Environmental
Firm No. : F-4105
Exp. 08/31/2020
2100 W. Expressway 83
Mercedes, TX. 78570
Phone : (956) 565-9813
Fax : (956) 565-9018
900 S. Stewart Rd., Ste. 10
Mission, TX. 78572
Phone : (956) 585-1909
Fax : (956) 585-1927

MILE 3 ROAD
PLAN AND PROFILE
STA. 250+50 TO STA. 255+50

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

SHEET 23 OF 46

DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	181

181a

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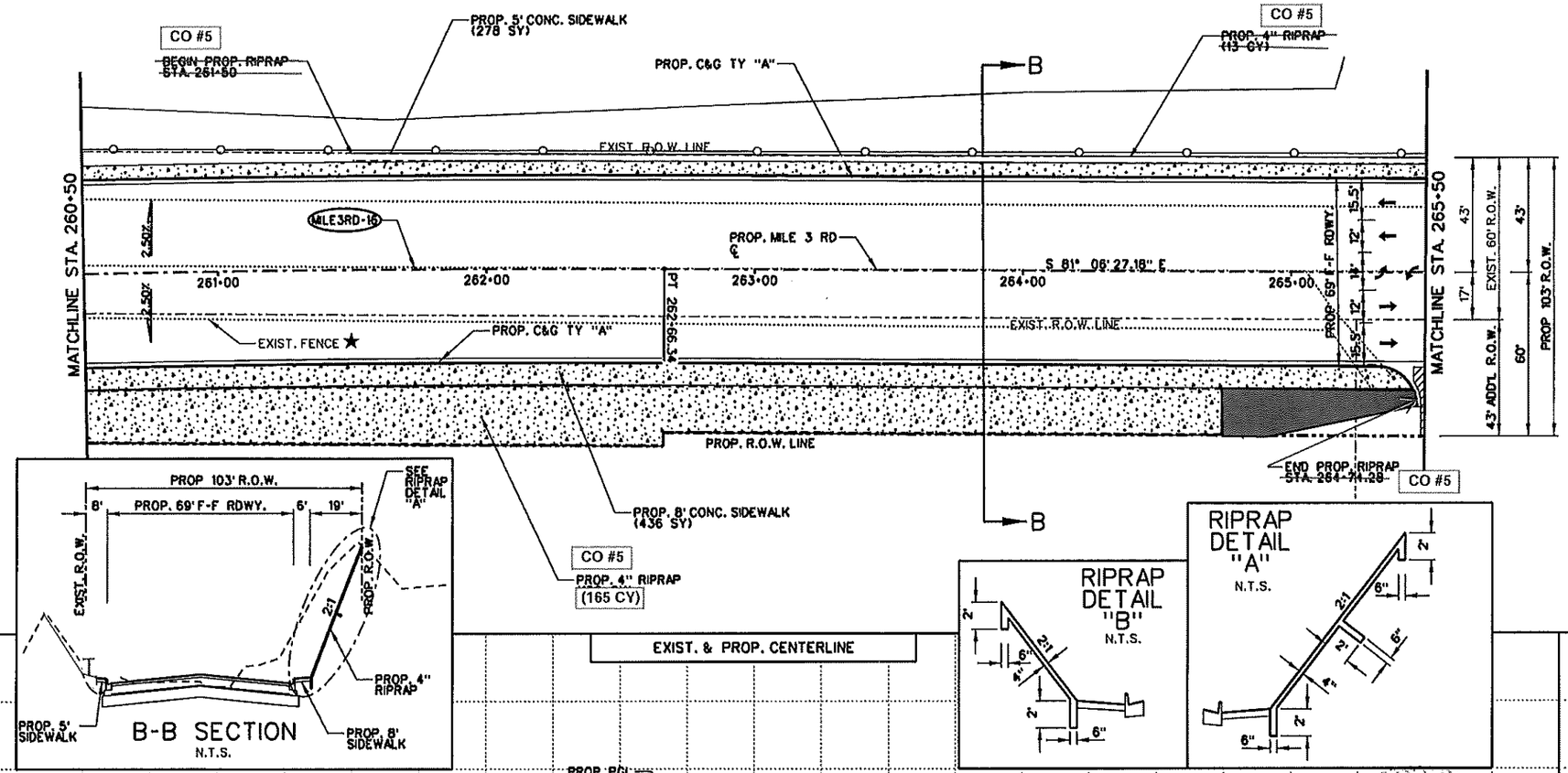
8/26/2020

CO #5

SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	165
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	714



CO #5 - Change Order #5

1. Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.
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LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
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- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:

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2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

S. R. MUNOZ
11284
LICENSED PROFESSIONAL ENGINEER
8/26/2020

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L&G Engineering
Highway / Civil
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MILE 3 ROAD
PLAN AND PROFILE
STA. 260+50 TO STA. 265+50

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

SHEET 25 OF 46

DN:	CK DW: D.B.T.	DW:	CK DW: D.B.T.	TR:	CK TR:

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TX	STP	(	)MM	MILE 3 RD.
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	183

183a

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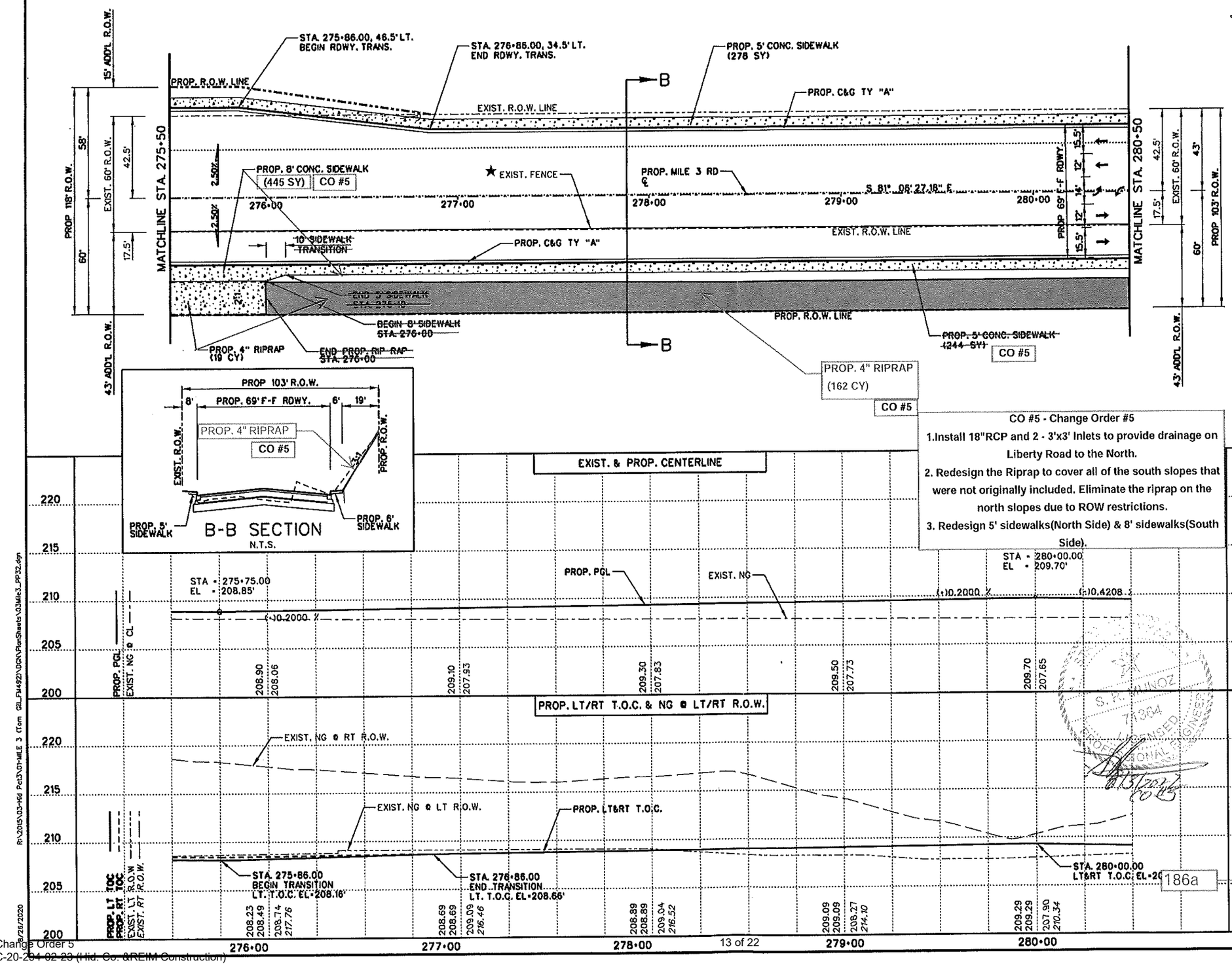
8/26/2020



SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	181
529	CONC. CURB & GUTTER (TY "A")	LF	1001
531	CONC. SIDEWALK (4")	SY	723

CO #5

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP, INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:
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S. R. MUNOZ
71364
LICENSED PROFESSIONAL ENGINEER
8/26/2020

MILE 3 ROAD
PLAN AND PROFILE
STA. 275+50 TO STA. 280+50

SCALE:
HORI 1"= 50'
VERT 1"= 10'

SHEET 28 OF 46

DN:		CK DW: D.B.T.		DW:		CK DW: D.B.T.		CK TR:	
FED.RD. DIST. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TX	STP	(	)MM	MILE 3 RD.
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	186

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8/26/2020

Change Order 5
C-20-~~20~~4-02-23 (Hid. Co. &REIM Construction)

CO #5

SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	181
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	723

MATCHLINE STA. 280+50

PROP. 5' CONC. SIDEWALK (278 SY)

PROP. C&G TY "A"

EXIST. R.O.W. LINE

★ EXIST. FENCE

PROP. MILE 3 RD ℄

S 81° 06' 27.18" E

2.50%

2.50%

281+00 282+00 283+00 284+00 285+00

PROP 69' F-F RDWY.

15.5' 12' 14' 12' 15.5'

PROP. 5' CONC. SIDEWALK (78 SY)

10' SIDEWALK TRANSITION

PROP. C&G TY "A"

EXIST. R.O.W. LINE

BEGIN 5' SIDEWALK STA. 281+00

PROP. R.O.W. LINE

END 8' SIDEWALK STA. 282+00

BEGIN PROP. RIPRAP STA. 282+00

PROP. 8' CONC. SIDEWALK (445SY)

PROP. 4" RIPRAP (63 cy)

CO #5

PROP. 4" RIPRAP (118 CY)

PROP. R.O.W. LINE

MATCHLINE STA. 285+50

42.5' EXIST. 60' R.O.W.

17.5'

43' PROP 103' R.O.W.

60'

43' ADD'L R.O.W.

B

B

PROP 103' R.O.W.

8' PROP. 69' F-F RDWY. 6' 19'

EXIST. R.O.W.

PROP. 4" RIPRAP

2:1

PROP. R.O.W.

SEE RIPRAP DETAIL

PROP. 5' SIDEWALK

PROP. 8' SIDEWALK

B-B SECTION

N.T.S.

RIPRAP DETAIL

N.T.S.

2'

6"

2:1

2'

4'

2'

6"

6"

EXIST. & PROP. CENTERLINE

220 215 210 205 200

EXIST. NG

PROP. PGL

(-)0.4208 %

CO #5

PROP. PGL

EXIST. NG @ CL

209.28 207.59 208.86 207.83 208.44 207.66 208.02 207.73 207.60 207.28

PROP. LT/RT T.O.C. & NG @ LT/RT R.O.W.

EXIST NG @ RT R.O.W.

PROP. LT&RT T.O.C.

EXIST. NG

PROP. LT&RT TOC

EXIST. LT R.O.W

EXIST. RT R.O.W.

208.87 208.17 213.73 208.45 208.65 214.69 208.03 208.69 215.62 207.61 208.75 216.05 207.19 208.06 217.06

281+00 282+00 283+00 284+00 285+00

187a

CO #5 - Change Order #5

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LEGEND:

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- PROPOSED PLANING (0-1½")
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3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

STATE OF TEXAS
DAMIEN B. TIJERINA
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8/26/2020
F-4105

STATE OF TEXAS
S. R. MUNOZ
71364
LICENSED PROFESSIONAL ENGINEER

8/26/2020

CO #5

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L&G Engineering
Highway / Civil
Structural / Bridge
Environmental
Firm No. : F-4105
Exp. 08/31/2020

2100 W. Expressway 83
Mercedes, TX. 78570
Phone : (956) 565-9813
Fax : (956) 565-9018

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

MILE 3 ROAD
PLAN AND PROFILE
STA. 280+50 TO STA. 285+50

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

SHEET 29 OF 46

DIST	COUNTY	CONT NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	187

R:\2015\03-166 Pct3\01-MILE 3 (Tom Gill_PW492)\DGN\PlanSheets\03Mile3_PP33.dgn

8/26/2020

SUMMARY OF PROP. DRAINAGE & IRRIGATION STRUCTURES

SHEET	ITEM 400				ITEM 402	ITEM 462	ITEM 464						ITEM 464					ITEM 465													ITEM 1008
	6001	6005	6010	6011	6001	6040	6038	6039	6040	6041	6042	6044	6062	6063	6072	6073	6064	6029	6030	6031	6032	6033	6034	6036	6037	6038	6039	6040	6041	6043	6044	6006
	STRUCT. EXCAV. *	CEMENT STABILIZED FILL	STRUCT. EXCAV. (SPL)	SAND BACKFILL	TRENCH PROTECTION	CONC. BOX CULVERT (12'X4')	PROP.18" RCP (SPL) (CL-III)	PROP.24" RCP (SPL) (CL-III)	PROP.30" RCP (SPL) (CL-III)	PROP.36" RCP (SPL) (CL-III)	PROP.42" RCP (SPL) (CL-III)	PROP.54" RCP (SPL) (CL-III)	PROP.36" RCP (SPL) (CL-IV)	PROP.42" RCP (SPL) (CL-IV)	PROP.48" RCP (SPL) (CL-IV)	PROP.54" RCP (SPL) (CL-IV)	PROP.60" RCP (SPL) (CL-IV)	PCU (3 FT) (NONE)	PCU (3 FT) (LEFT)	PCU (3 FT) (RIGHT)	PCU (3 FT) (BOTH)	PCU (4 FT) (NONE)	PCU (4 FT) (LEFT)	PCU (4 FT) (BOTH)	PCU (5 FT) (NONE)	PCU (5 FT) (LEFT)	PCU (5 FT) (RIGHT)	PCU (5 FT) (BOTH)	PCU (6 FT) (NONE)	PCU (6 FT) (RIGHT)	PCU (6 FT) (BOTH)	PRSSR IRRIGATION PVC PIPE 15"
	(CY)	(CY)	(CY)	(CY)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)
NETWORK "A"																																
SHT. 4 OF SHT. 4	18411	187	566	5301	4607		680	310	568	42		904				479	1836	5		1	3	1		2			1	3	1		0	
NETWORK "B"																																
SHT. 4 OF SHT. 5	13608	447	1989	2677	4855		1338	1576	782	1255	0		879	758																		
SHT. 5 OF SHT. 5																		5	2	1	12	1			5		1	2	1		2	
NETWORK "C"																																
SHT. 6 OF SHT. 7	34188	1020	4310	7206	10951		2823	898	972	1175	569	511		1576	1095	1407																
SHT. 7 OF SHT. 7																		9	3	6	8	1	1	1	3	1		6	2	4	2	
U & D's																																
SHT. 1 OF SHT. 46												0																				248
SHT. 11 OF SHT. 46																																10
SHT. 12 OF SHT. 46			~~7~~					90																								
SHT. 36 OF SHT. 46																			1	1												
IRRIG. CROSSING																																
STA. 304+00	147	30	~~13~~		110																											
STA. 315+20.50	1366		~~148~~		285	220																										
STA 314+73.48		60																														
GRAND TOTAL	**67,720**	**1744**	**6865**	**15,184**	**20,808**	**220**	4841	2874	2322	2472	569	1415	**879**	2334	**1,095**	**1,886**	**1,836**	**19**	**6**	**9**	**23**	**3**	**1**	**3**	**8**	1	**2**	11	4	**4**	4	258
		CO#4	CO#3				CO#2		CO#2		CO#2	CO#2 & 3		CO#2 & 3																CO#2	CO#2	CO#4

* FOR CONTRACTOR'S CONVENIENCY (NON-PAY)

ITEM 420: TO BE PAID UNDER ROW CSJ: 0921-02-344

SHEET	420 6144 CLASS S CONC. UTILITY PROTECTION PADDING EST. (CY)
TCP PH II CONC. SLAB	
SHEET 6 OF 21	10
TCP PH III CONC. SLAB	
SHEET 6 OF 20	6
GRAND TOTAL	16

SHEET	ITEM 465 6070 PSL (RC) (3'X3') EST. (EA)	6072 PSL (RC) (3'X5') EST. (EA)	6074 PSL (RC) (5'X5') EST. (EA)	6075 PSL RC (5'X6') EST. (EA)	6076 PSL RC (6'X6') EST. (EA)	6077 PSL RC (8'X8') EST. (EA)	6126 PSL (FG) (3'X3'-3'X3') EST. (EA)	6126 PSL (RC) (7'X7') (EA)
NETWORK "A"								
SHT. 4 OF SHT. 4	2			1		7		1
NETWORK "B"								
SHT. 5 OF SHT. 5	1	7			1		2	
NETWORK "C"								
SHT. 7 OF SHT. 7		2	1	2	1		6	
GRAND TOTAL	3	9	1	3	2	7	8	1
	CO#5			CO#2				CO#4

SHEET	ITEM 400 6006 CUT & RESTORE PAVEMENT EST. (SY)
IRRIGATION TCP PH I	
SHEET 1 OF 1	50
IRRIGATION TCP PH II	
SHEET 1 OF 2	74
TCP PHASE I	
SHT. 9 OF SHT. 21	79
SHT. 13 OF SHT. 21	35
SHT. 16 OF SHT. 21	23
SHT. 18 OF SHT. 21	26
SHT. 19 OF SHT. 21	39
U & D's	
SHT. 38 OF SHT. 46	11
SHT. 42 OF SHT. 46	12
SHT. 44 OF SHT. 46	11
IRRIG. CROSSING	
STA. 304+00	18
OUTFALL "A"	
SHEET 1 OF 4	28
SHEET 2 OF 4	28
SHEET 3 OF 4	29
GRAND TOTAL	**463**

SHEET	ITEM 432 6001 RIPRAP (CONC) (4 IN) EST. (CY)	6002 RIPRAP (CONC) (5 IN) EST. (CY)	6045 RIPRAP (CONC) (4 IN) (MOW STRIP) EST. (CY)
P & P's			
SHT. 12 OF SHT. 46	0		
SHT. 13 OF SHT. 46	-		11
SHT. 14 OF SHT. 46	-		13
SHT. 15 OF SHT. 46	2		9
SHT. 16 OF SHT. 46	8		
SHT. 17 OF SHT. 46	2		
SHT. 18 OF SHT. 46	0		
SHT. 19 OF SHT. 46	234		
SHT. 20 OF SHT. 46	315		
SHT. 21 OF SHT. 46	317		
SHT. 22 OF SHT. 46	317		
SHT. 23 OF SHT. 46	226		
SHT. 24 OF SHT. 46	180		
SHT. 25 OF SHT. 46	165		
SHT. 26 OF SHT. 46	149		
SHT. 27 OF SHT. 46	181		
SHT. 28 OF SHT. 46	181		
SHT. 29 OF SHT. 46	181		
SHT. 30 OF SHT. 46	51		
SHT. 38 OF SHT. 46			13
SHT. 39 OF SHT. 46			9
SHT. 42 OF SHT. 46			13
SHT. 43 OF SHT. 46			16
SHT. 45 OF SHT. 46			8
SHT. 46 OF SHT. 46			5
OUTFALL "A"			
SHT. 2 OF SHT. 2		42	
OUTFALL "B2"			
SHT. 2 OF SHT. 2		9	
OUTFALL "C"			
SHT. 2 OF SHT. 2		38	
IRRIG. CROSSING			
STA. 315+20.50	99	5	4
STA 314+73.48	10		
GRAND TOTAL	**2618**	**94**	**101**
	CO#5		

SUMMARY OF PROP. DRAINAGE & IRRIGATION STRUCTURES

SHEET	ITEM 466 6210 WINGWALL (SW-0) (HW-7FT) EST. (EA)	ITEM 4024 6003 RC LOW HEAD PRSSR PIPE 24" (CL. III) EST. (LF)	~~6016~~ 6015 RC LOW HEAD PRSSR PIPE 42" (CL. IV) EST. (LF)
IRRIGATION CROSSING			
STA. 304+00		110	
STA. 314+73.48			724
STA. 315+20.50	2		
GRAND TOTAL	2	110	724
			CO#4

CO #5 - Change Order #5

1.Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.

2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.

3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

CO #4 - Change Order #4

1.Install a conflict manhole at Sta157+50 (54" & 36" RCP)

2. Redesign a 15" PVC to connect at Inlet B-3B

3. Redesign Lines C44 thru C-46 to avoid a 12" WL

4. Add 2-42" RCLHPP at Irrigation Bypass

CO#3 - Change Order #3
Structural Excavation SPL
Rock Excavation and Removal
Adjust 42" CL IV Pipe Quantity
Adjust 54" CL III Pipe Quantity

CO#2 - Change Order #2
Adjust plan quantity errors for storm sewer reinforced concrete pipes, inlets, and manholes.

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MILE 3 ROAD

14c

ESTIMATED QUANTITIES

SHEET 4 OF 6

DN:		FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
CK ON: D.B.T.		6	TX				MILE 3
DW:		STATE DIST. NO	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
CK DW: D.B.T.		21	HIDALGO	0921	02	321	4
TR:							
CK TR:							

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9/11/2020

ESTIMATED STORM DRAIN QUANTITIES

	LINK ID	LINK UPSTREAM NODE	LINK DOWNSTREAM NODE	LINK RISE	RCP SIZE	ACTUAL LENGTH	ITEM 464 (R.C.P. CL III) 6038 18"	6039 24"	6040 30"	6041 36"	6044 54"	ITEM 464 (CL IV) 6073 54"	6064 60"	ITEM 400 6001 STRUCTURAL EXCAVATION *	6005 CEMENT STABILIZED BACKFILL	6010 STRUCTURAL EXCAVATION (SPL)	6011 SAND BACKFILL	ITEM 402 6001 TRENCH PROTECTION
				(LF)	(IN.)	(FT.)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(CY)	(CY)	(CY)	(CY)	(LF)
CO#5	Inlet A17A & A17B - Junction - STA 158+30 & 158+80						121											
	L-A8	A-8	A-7	1.5	18	72	72							80	24	0	0	72
	T-A7	A-7	MHA17	4.5	54	138						138		705	0	49	196	138
	L-A16	A16	A15	1.5	18	65	65							69	22	0	0	64
	L-A18	A18	A17	1.5	18	75	75							83	25	0	0	74
	L-A20	A20	A19	1.5	18	76	76							79	25	0	0	76
	L-A22	A22	A21	1.5	18	77	77							79	26	0	0	61
	L-A24	A24	A23	1.5	18	65	65							68	22	0	0	57
	L-A26	A26	A25	1.5	18	66	66							70	22	0	0	63
	T-A13	MHA14	MHA13	4.5	54	319					327			1481	0	113	453	319
	T-A15	A15	A15-A	4.5	54	223					223			987	0	79	316	223
	T-A17	A17	A-7	4.5	54	341						341		1587	0	121	484	341
	T-A19	A19	MHA17	3	36	42				42				88	0	0	26	42
	T-A21	A21	A19-A	2.5	30	130			130					246	0	0	67	130
	T-A23	A23	A21	2.5	30	295			295					550	0	0	151	295
	T-A25	A25	A23	2	24	310		310						427	0	0	130	310
	T-MHA9	MHA9	MHA10	5	60	442							442	2226	0	166	699	442
	L-A16-A	A16-A	A15-A	1.5	18	63	63							62	21	0	0	9
	T-A15-A	A15-A	A17	4.5	54	143					143			616	0	51	203	143
	T-A19-A	A19-A	A19	2.5	30	143			143					265	0	0	73	143
	T-MHA10	MHA10	MHA11	5	60	442							442	2263	0	166	699	442
	T-MHA11	MHA11	MHA12	5	60	372							372	2204	0	140	588	372
	T-MHA12	MHA12	OUT-A1	5	60	135							135	899	0	51	213	135
	T-MHA13	MHA13	A15	4.5	54	211					211			966	0	75	299	211
	T-MHA17	MHA17	MHA9	5	60	445							445	2311	0	167	704	445
	TOTAL						680	310	568	42	904	479	1836	18411	187	1178	5301	4607
							CO#5				CO#2							

* FOR CONTRACTORS INFORMATION ONLY (NON-PAY)

Inlets & Manholes

	NODE ID	TYPE	STATION	OFFSET	ELEVATION	REFERENCE CHAIN	REFERENCE PGL	ITEM 465 - INLETS 6029 PCU (3') (NONE) (EA)	6031 PCU (3') (RIGHT) (EA)	6032 PCU (3') (BOTH) (EA)	6033 PCU (4') (NONE) (EA)	6036 PCU (4') (BOTH) (EA)	6039 PCU (5') (RIGHT) (EA)	6041 PCU (6') (NONE) (EA)	6044 PCU (6') (BOTH) (EA)	ITEM 465 - MH 6075 PSL (RC) (5'X6') (EA)	6077 PSL (RC) (8'X8') (EA)
CO#2	MH A12A - Junction - STA 159+10.00, 1470' TOP=214.00 FL=193.50																1
	A-7	Curb	157+60.00	-36	214.44	MILE3RD	PRMI3PROF							1			
	A-8	Curb	157+60.00	48	214.07	MILE3RD	PRMI3PROF	1									
	A15	Curb	150+38.00	-36	213.45	MILE3RD	PRMI3PROF								0		
	A16	Curb	150+23.00	36	213.50	MILE3RD	PRMI3PROF	1									
	A17	Curb	154+10.00	-36	212.29	MILE3RD	PRMI3PROF								0		
	A18	Curb	154+10.00	48	211.99	MILE3RD	PRMI3PROF			1							
	A19	Curb	159+52.10	-48	214.40	MILE3RD	PRMI3PROF					1					
	A20	Curb	159+52.10	36	214.70	MILE3RD	PRMI3PROF			1							
	A21	Curb	162+35.00	-48	217.08	MILE3RD	PRMI3PROF					1					
	A22	Curb	162+35.00	36	217.38	MILE3RD	PRMI3PROF	1									
	A23	Curb	165+35.00	-36	218.56	MILE3RD	PRMI3PROF				1						
	A24	Curb	165+35.00	36	218.56	MILE3RD	PRMI3PROF	1									
	A25	Curb	168+50.00	-36	219.19	MILE3RD	PRMI3PROF		1								
	A26	Curb	168+50.00	36	219.19	MILE3RD	PRMI3PROF	1									
	MHA9	Junction	159+08.00	405	212.11	MILE3RD	PRMI3PROF										1
	A15-A	Curb	152+65.00	-36	212.74	MILE3RD	PRMI3PROF			1							
	A16-A	Curb	152+65.00	36	212.74	MILE3RD	PRMI3PROF							0			
	A19-A	Curb	161+00.00	-48	215.58	MILE3RD	PRMI3PROF						1				
	MHA10	Junction	159+08.00	855	211.70	MILE3RD	PRMI3PROF										1
	MHA11	Junction	159+08.00	1305	210.82	MILE3RD	PRMI3PROF										1
	MHA12	Junction	159+10.00	1685	214.90	MILE3RD	PRMI3PROF										1
	MHA13	Junction	148+23.00	-29.5	214.23	MILE3RD	PRMI3PROF									1	
	MHA14	Junction	145+00.00	-48	214.47	MILE3RD	PRMI3PROF									0	1
	MHA17	Junction	159+04.00	-48	214.42	MILE3RD	PRMI3PROF										1
	OUT-A1	Outlet	160+52.00	1697	214.21	MILE3RD	PRMI3PROF										
	TOTAL							5	1	3	1	2	1	1	0	1	7
														CO#2			

INLET 465	INLET 9004-001	INLET 465-6070
6040 PCU 5FT BOTH (EA) 3	INLET A7A PSL(RC) 7' x 7' (EA) 1.0	INLET A17A & A17B PSL(RC) 3' x 3' (EA) 2.0
CO#2	Sta 157+50 CO#4	CO#5

CO #5 - Change Order #5

1.Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.

2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.

3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

CO #4 - Change Order #4

1.Install a conflict manhole at Sta157+50 (54" & 36" RCP)

2. Redesign a 15" PVC to connect at Inlet B-3B

3. Redesign Lines C44 thru C-46 to avoid a 12" WL

4. Add 2-42" RCLHPP at Irrigation Bypass

CO#2 - Change Order #2

Adjust plan quantity errors for storm sewer reinforced concrete pipes, inlets, and manholes.

NOTE:
1) STORM DRAIN CALCULATIONS MADE USING GEOPAK DRAINAGE.
2) PONDING WIDTHS DO NOT EXCEED THE WIDTH ALLOWED BY THE HYDRAULIC MANUAL.
3) RAINFALL FREQUENCY 5YR
4) MINIMUM TIME OF CONCENTRATION = 10 MIN.

STATE OF TEXAS · S. R. MUNOZ · 71364 · LICENSED PROFESSIONAL ENGINEER

8/26/2020

STATE OF TEXAS · DAMEN B. TIJERINA · 104828 · LICENSED PROFESSIONAL ENGINEER

8/26/2020
F-4105

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Structural / Bridge
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250c

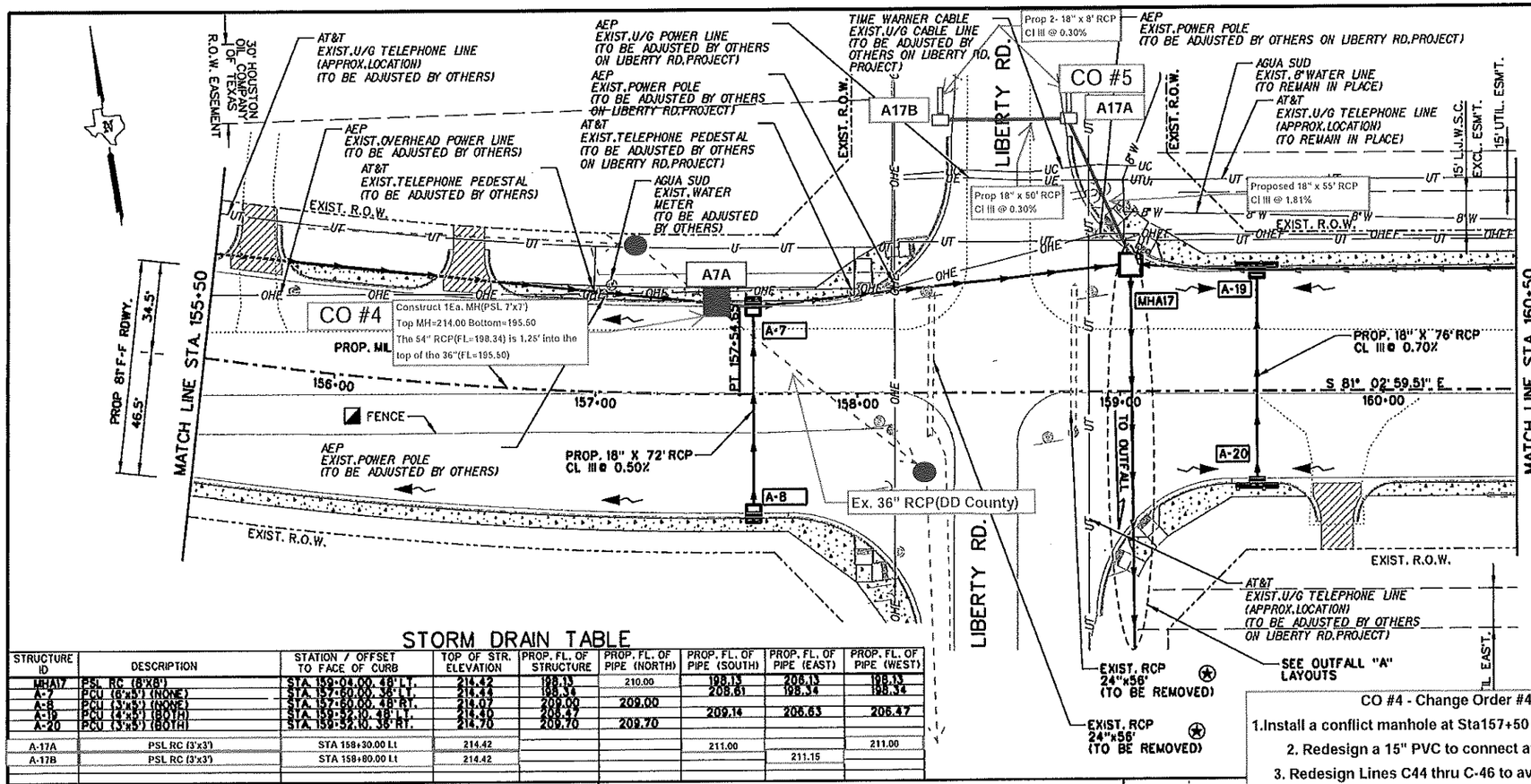
MILE 3 ROAD

STORM DRAIN QUANTITIES
NETWORK A

SHEET 4 OF 4

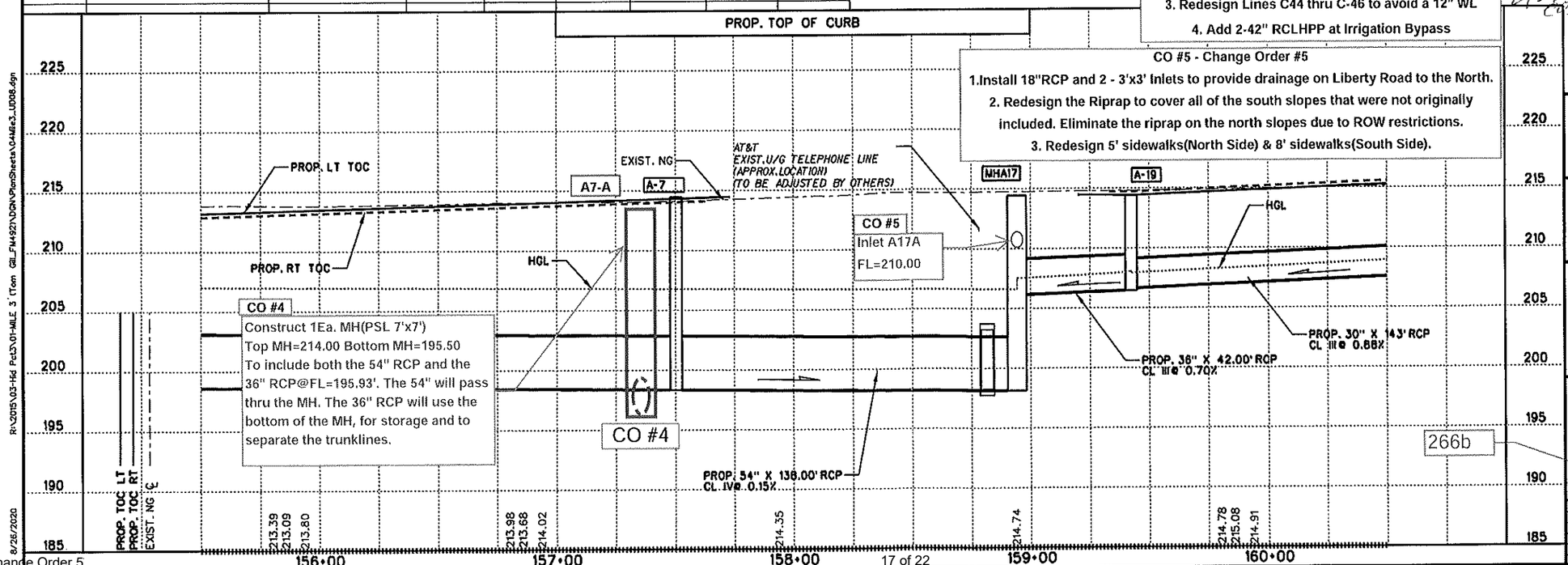
DN:	CK DN: D.B.T.	DW:	CK DW: D.B.T.	TR:	CK TR:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
						6	TX		MILE 3
						STATE DIST. NO.	COUNTY	CONTROL NO. / SECTION NO. / JOB NO.	SHEET NO.
						21	HIDALGO	0921 / 02 / 321	250

R:\2015\03-Hid Pct3\01-MILE 3 (Com Gd_FM492)\06R\PlanSheets\04Mile3_Hydro_Sum_A.dgn
8/26/2020



STORM DRAIN TABLE

STRUCTURE ID	DESCRIPTION	STATION / OFFSET TO FACE OF CURB	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MHA17	PSL RC (8'X8')	STA 159+06.00, 48' LT.	214.42	198.13	210.00	198.13	208.13	198.13
A-7	PCU (6'x5') (NONE)	STA 157+60.00, 36' LT.	214.44	198.34	209.00	208.61	198.34	198.34
A-8	PCU (3'x5') (NONE)	STA 157+60.00, 48' RT.	214.07	209.00				
A-19	PCU (4'x5') (BOTH)	STA 159+52.30, 48' LT.	214.40	206.47	209.14	206.63	206.47	
A-20	PCU (3'x5') (BOTH)	STA 159+52.30, 36' RT.	214.70	206.70	209.70			
A-17A	PSL RC (3'x3')	STA 158+30.00 Lt	214.42		211.00		211.00	
A-17B	PSL RC (3'x3')	STA 158+80.00 Lt	214.42			211.15		



SHEET SUMMARY

CO #5

ITEM	DESCRIPTION	UNIT	QUANTITY
496	REMOVE (PIPE)	LF	112
464	RC PIPE (CL. III) (18 IN) (SPL)	LF	121

LEGEND:

- *W — EXIST. * (DIAM INCH) WATER LINE
- *FM — EXIST. * (DIAM INCH) FORCE MAIN SANITARY SEWER LINE
- *SS — EXIST. * (DIAM INCH) SANITARY SEWER LINE
- *G — EXIST. * (DIAM INCH) GAS PIPELINE
- UFO — EXIST. UNDERGROUND FIBER OPTIC CABLE
- UT — EXIST. UNDERGROUND TELE LINE
- OHE — EXIST. OVERHEAD ELECTRIC LINE
- HVTL — EXIST. HIGH VOLTAGE TRANSMISSION LINE
- UE — EXIST. UNDERGROUND ELECTRIC LINE
- OHEC — EXIST. OVERHEAD ELECTRIC LINE WITH CABLE LINE ATTACHED
- OHEFC — EXIST. OVERHEAD ELECTRIC LINE WITH FIBER OPTIC AND CABLE LINE ATTACHED
- SEE P&P SHEETS
- EXIST. ITEM TO BE REMOVED UNDER ITEM 496
- PROP. CONC. PLUG (NON-PAY ITEM)
- DIRECTION OF FLOW
- OUTFALL CHANNEL FLOW
- ROADSIDE DITCH FLOW
- PROP. DRAINAGE PIPE
- OBJ. MRKR.

NOTES:

1. SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
2. ALL RCP SHALL BE CL III UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE STRUCTURE STANDARD SHEETS FOR DESCRIPTION OF OFFSET IN STORM DRAIN TABLE.
4. RECONNECTION OF EXISTING STORM DRAIN SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
5. SEE "HYDRAULIC DATA SHEETS FOR PAYMENT OF ALL PROPOSED DRAINAGE STRUCTURES.
6. FOR OTHER DITCH GRADES SEE DITCH PROFILE SHEETS
7. CONTRACTOR SHALL COORDINATE WITH UID & HCID #6 PRIOR TO ANY WORK DONE ON OR NEAR IRRIGATION STRUCTURES. MIKE WARSHAK (956) 585-4818 (UID) JOE AGUILAR (956) 585-8389 (HCID#6)
8. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FEILD VERIFY UTILITIES TO CONSTRUCTION.

CO #4 - Change Order #4

1. Install a conflict manhole at Sta157+50 (54" & 36" RCP)
2. Redesign a 15" PVC to connect at Inlet B-3B
3. Redesign Lines C44 thru C-46 to avoid a 12" WL
4. Add 2-42" RCLHPP at Irrigation Bypass

CO #5 - Change Order #5

1. Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.
2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.
3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

STATE OF TEXAS — S. R. MUÑOZ — 71364 — LICENSED PROFESSIONAL ENGINEER

8/26/2020
F-4105

STATE OF TEXAS — DAMIEN B. TIJERINA — 104828 — LICENSED PROFESSIONAL ENGINEER

THE CITY OF PENITAS, TEXAS — FOUNDED 1909

THE COUNTY OF HIDALGO — TEXAS

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Structural / Bridge
Environmental
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Exp. 08/31/2020

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

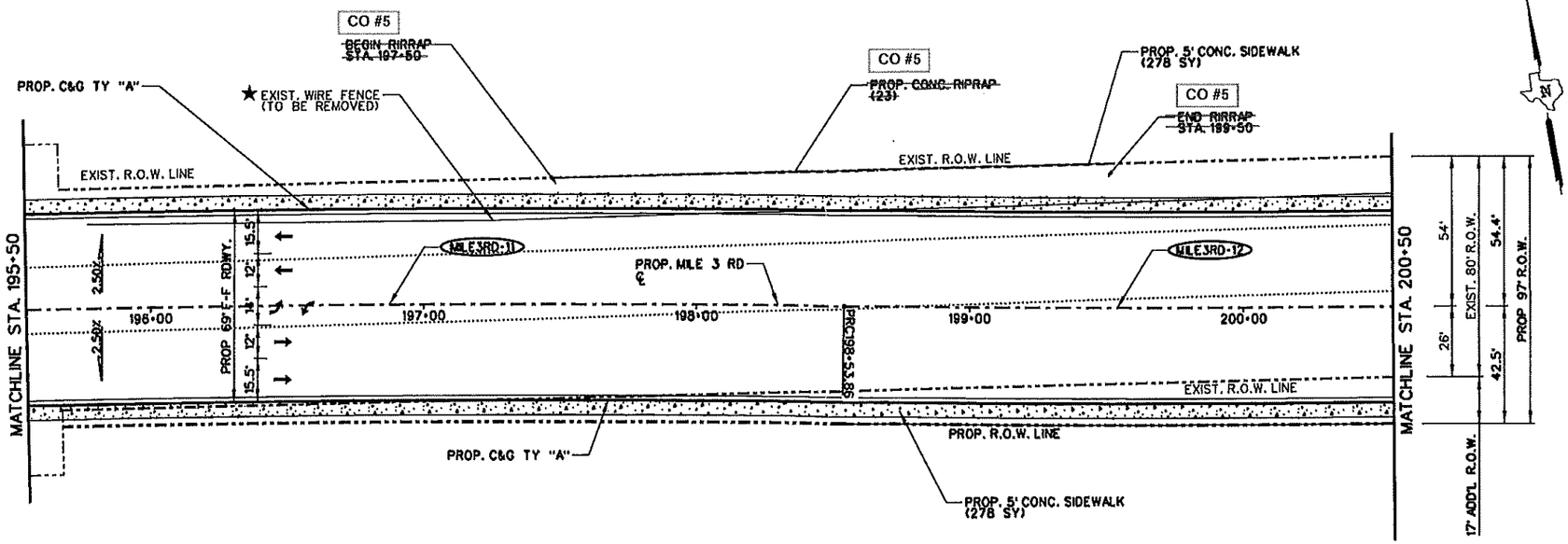
MILE 3 ROAD UTILITY AND DRAINAGE STA. 150+50 TO STA. 155+50

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

SHEET 4 OF 46

DH	FED.RD. DIV.NO.	STATE	PROJECT NO.				HIGHWAY NO.
CK DW D.B.T.	6	TX	STP	(	)MM		MILE 3
DW D.B.T.	STATE DIST.NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.		SHEET NO.
CK D.B.T.	21	HIDALGO	0921	02	321		266
TR							
CK TRI							

8/25/2020 R:\2015\03-Hid Pct3\01-MILE 3 \Tom Gill_FM4921\DGN\PlanSheets\04sfle3_UD08.dgn



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	0
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	556

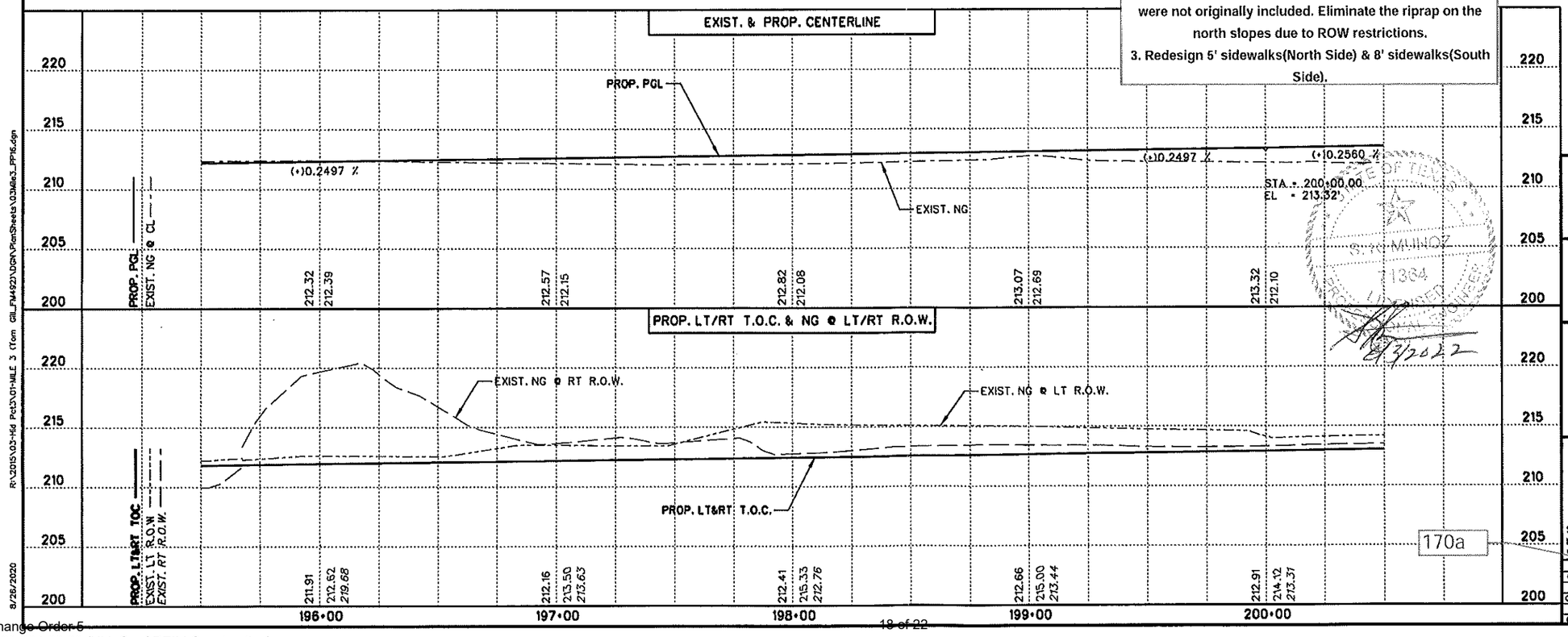
LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:
(XXXX)
1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

CO #5 - Change Order #5

1. Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.
2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.
3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).



STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

STATE OF TEXAS
S. MUNOZ
71364
REGISTERED PROFESSIONAL ENGINEER
8/26/20

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MILE 3 ROAD
PLAN AND PROFILE
STA. 195+50 TO STA. 200+50

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

SHEET 12 OF 46

DIH		CSJ NO. DIST. NO.	STATE	PROJECT NO.			HIGHWAY NO.
CK DIH	D.B.T.	6	TX	STP	(	)MM	MILE 3 RD.
DIH		STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
CK DIH	D.B.T.	PHR	HIDALGO	0921	02	321	170
TRI							
CK TRI							

170a

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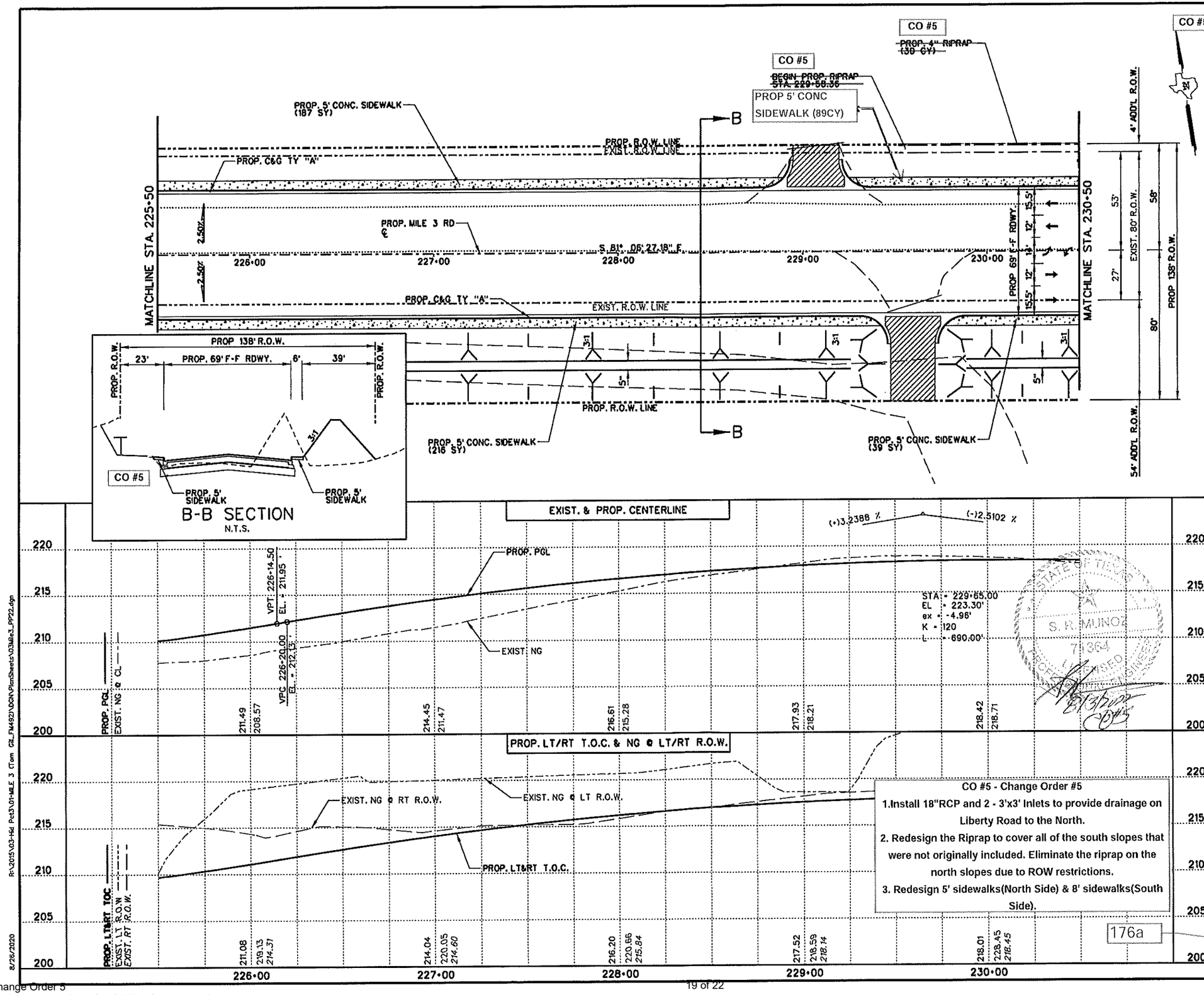
8/26/2020



SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	0
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	531

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:

(XXXX) 1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

S. R. MUNOZ
71364
LICENSED PROFESSIONAL ENGINEER

CO #5 - Change Order #5

1.Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.

2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.

3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

176a

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MILE 3 ROAD
PLAN AND PROFILE
STA. 225+50 TO STA. 230+50

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

SHEET 18 OF 46

DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	176

R:\2015\03-Hid Pct3\01-MILE 3 Ctrm GIL_FM492\DGN\PlanSheets\03Mile3_PP22.dgn
8/26/2020

CO #5

PROP. 4" RIPRAP (162 CY)

PROP. C&G TY "A"

PROP. 8' CONC. SIDEWALK (445 SY)

CO #5

PROP 5' CONC SIDEWALK (278SY)

PROP. R.O.W. LINE

4' ADD'L R.O.W.

PROP 138' R.O.W.

58'

80'

54' ADD'L R.O.W.

EXIST. 80' R.O.W.

53'

27'

MATCHLINE STA. 230+50

★EXIST. WIRE FENCE (TO BE REMOVED)

S 81° 06' 27.18" E

2.50%

2.50%

PROP. MILE 3 RD ℄

231+00

232+00

10' SIDEWALK TRANSITION

233+00

234+00

235+00

MILE3RD-13

PROP. C&G TY "A"

EXIST. R.O.W. LINE

PC 233+65.92

PROP 69' F-F RDWY.

15.5'

12'

12'

15.5'

BEGIN 5' SIDEWALK TRANSITION STA. 231+90

END 8' SIDEWALK TRANSITION STA. 232+00

3:1

3:1

5'

BEGIN PROP. RIPRAP STA. 232+00

PROP. 5' CONC. SIDEWALK (78 SY)

PROP. 8' CONC. SIDEWALK (318 SY)

PROP. 4" RIPRAP (234 CY)

PROP. R.O.W. LINE

B

B

MATCHLINE STA. 235+50

4' ADD'L R.O.W.

55'

EXIST. 70' R.O.W.

15'

60'

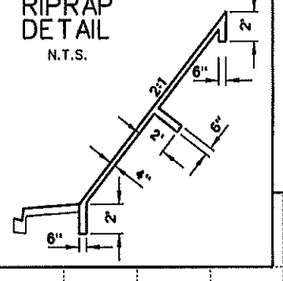
80'

PROP 140' R.O.W.

66' ADD'L R.O.W.

RIPRAP DETAIL

N.T.S.



CO #5

PROP R.O.W.

15'

8'

PROP. 69' F-F RDWY.

6'

39'

PROP. R.O.W.

PROP. 4" RIPRAP

2:1

PROP 5' SIDEWALK

SEE RIPRAP DETAIL

PROP. 8' SIDEWALK

B-B SECTION

N.T.S.

SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	234
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	674

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:

1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

EXIST. & PROP. CENTERLINE

220 / 215 / 210 / 205 / 200

PROP. PGL

EXIST. NG

EL. = 212.38'
VPC 234+00.00

EL. = 214.64'
VPT 233+10.00

STA = 235+25.00
EL = 209.24'
ex. = 0.85'
K = 92
L = 250.00'

(-)2.5102 % (+)0.2156 %

PROP. PGL
EXIST. NG @ CL

218.07 217.13 | 216.90 215.09 | 214.89 212.57 | 212.38 210.68 | 210.42 209.27

PROP. LT/RT T.O.C. & NG @ LT/RT R.O.W.

EXIST. NG @ RT R.O.W.

EXIST. NG @ LT R.O.W.

PROP. LT&RT T.O.C.

PROP. LT&RT TOC
EXIST. LT R.O.W.
EXIST. RT R.O.W.

217.67 228.39 224.82 | 216.49 226.01 236.59 | 214.48 226.41 241.76 | 211.97 226.36 239.12 | 210.01 225.19 231.63

231+00 232+00 233+00 234+00 235+00

CO #5 - Change Order #5

1.Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.

2. Redesign the Riprap to cover all of the south slopes that were not originally included. Eliminate the riprap on the north slopes due to ROW restrictions.

3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

177a

STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

STATE OF TEXAS
E. R. MUNOZ
77384
LICENSED PROFESSIONAL ENGINEER

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MILE 3 ROAD
PLAN AND PROFILE
STA. 230+50 TO STA. 235+50

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

SHEET 19 OF 46

DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	177

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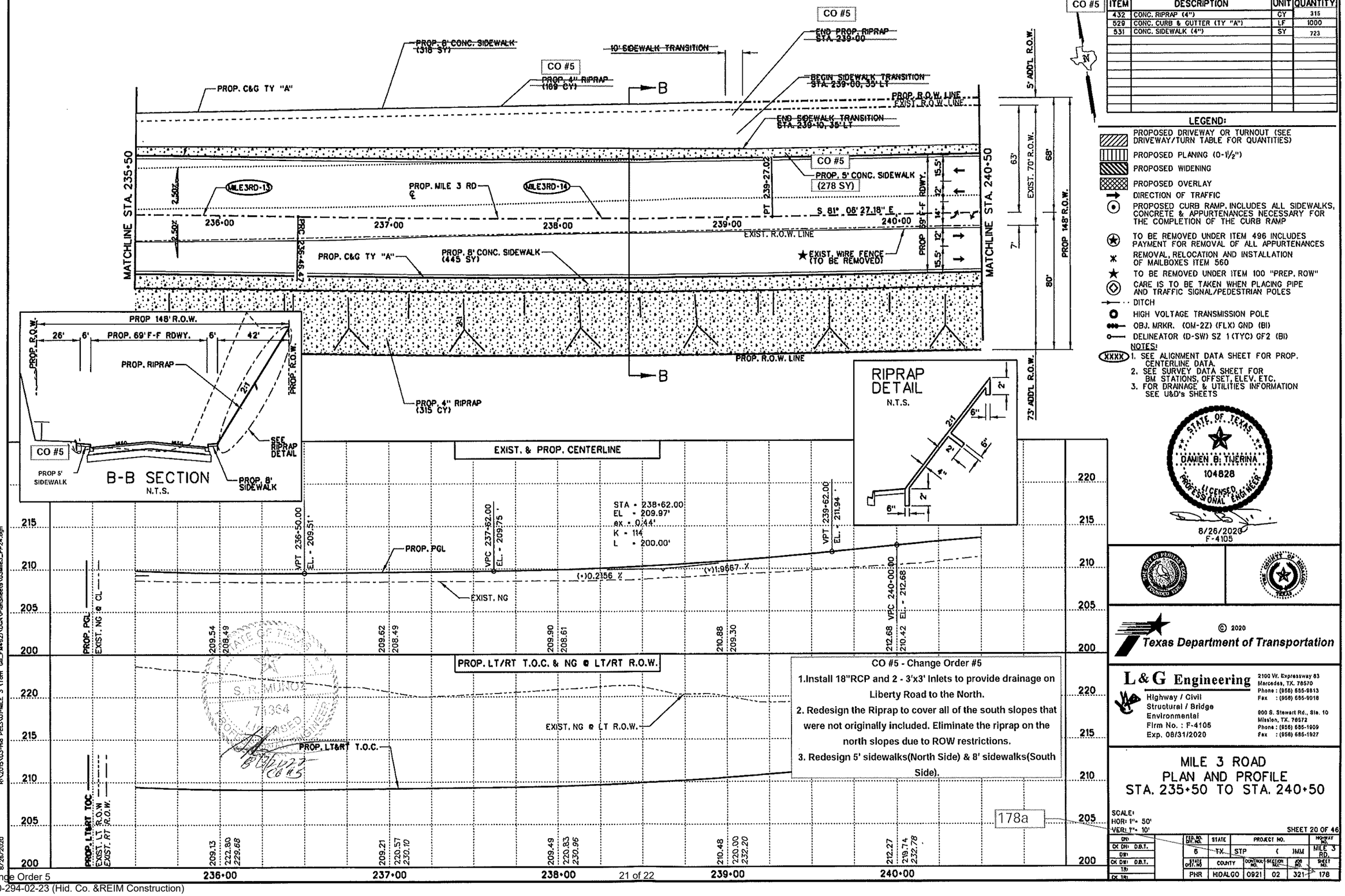
8/26/2020

SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONC. RIPRAP (4")	CY	315
529	CONC. CURB & GUTTER (TY "A")	LF	1000
531	CONC. SIDEWALK (4")	SY	723

CO #5



LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
- TO BE REMOVED UNDER ITEM 496 INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES
- REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ITEM 560
- ★ TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
- CARE IS TO BE TAKEN WHEN PLACING PIPE AND TRAFFIC SIGNAL/PEDESTRIAN POLES
- DITCH
- HIGH VOLTAGE TRANSMISSION POLE
- OBJ. MRKR. (OM-2Z) (FLX) GND (BI)
- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:

(XXXX) 1. SEE ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.
2. SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.
3. FOR DRAINAGE & UTILITIES INFORMATION SEE U&D's SHEETS

STATE OF TEXAS
DAMIEN B. TIJERINA
104828
LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

CO #5 - Change Order #5

1. Install 18"RCP and 2 - 3'x3' Inlets to provide drainage on Liberty Road to the North.
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3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

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Mission, TX. 78572
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MILE 3 ROAD
PLAN AND PROFILE
STA. 235+50 TO STA. 240+50

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

SHEET 20 OF 46

DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	178

178a

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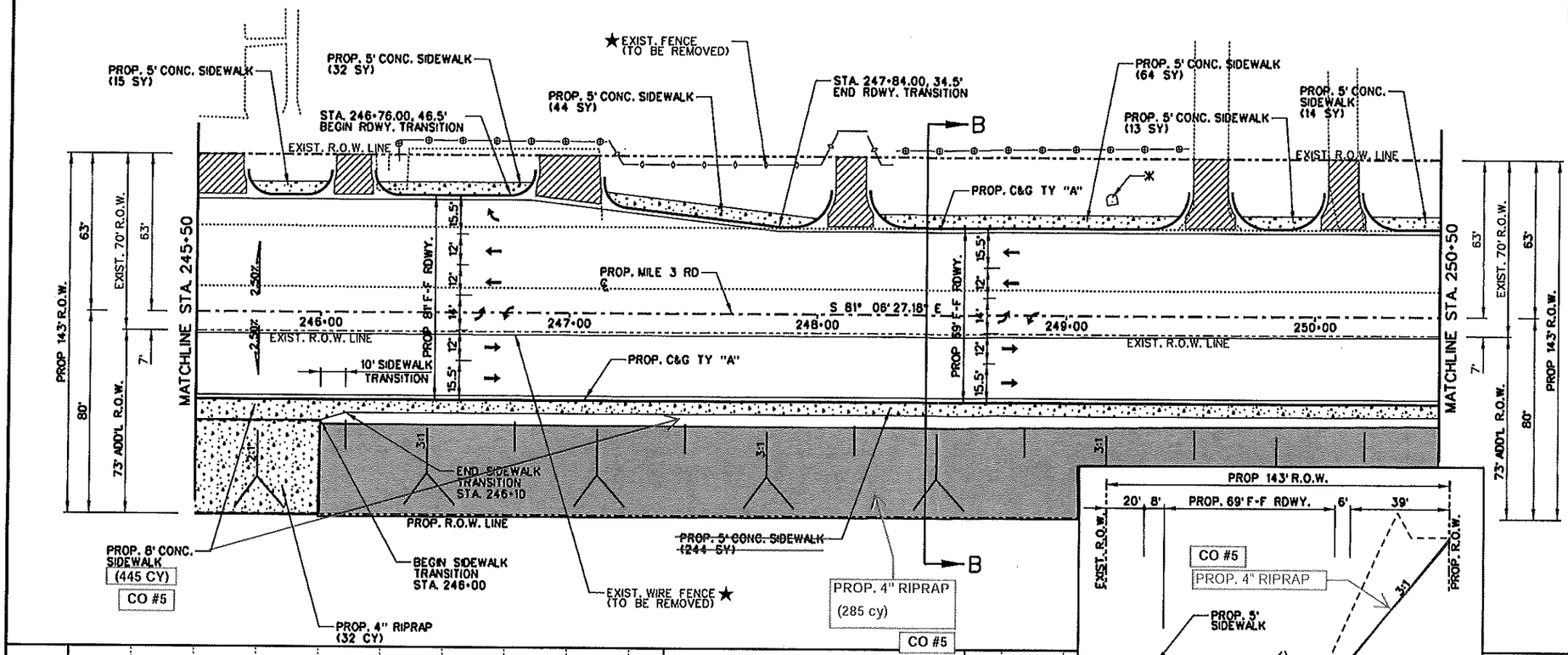
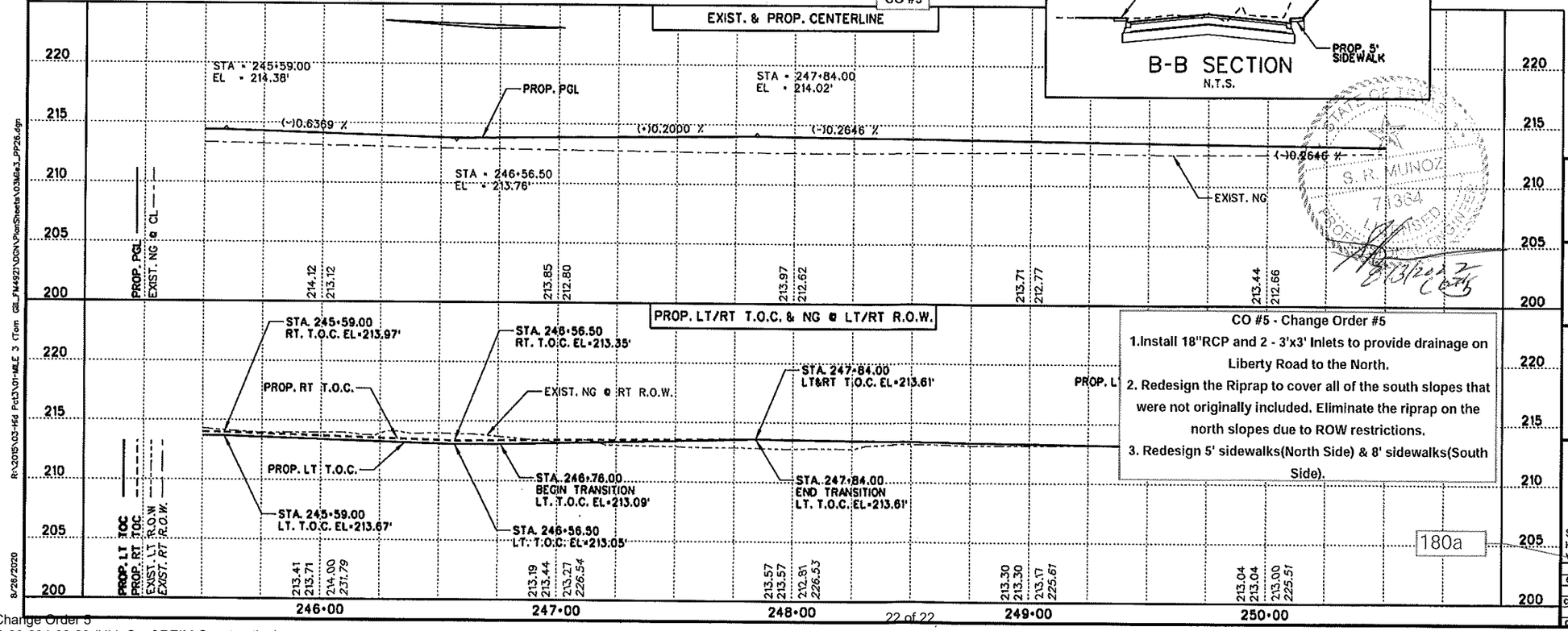
8/28/2020





SHEET SUMMARY

CO #5	ITEM	DESCRIPTION	UNIT	QUANTITY
	432	CONC. RIPRAP (4")	CY	317
	529	CONC. CURB & GUTTER (TY "A")	LF	1001
	531	CONC. SIDEWALK (4")	SY	627
	560	MAILBOX INSTALLATION (SINGLE)	EA	1

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURN TABLE FOR QUANTITIES)
- PROPOSED PLANING (0-1½")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- DIRECTION OF TRAFFIC
- PROPOSED CURB RAMP. INCLUDES ALL SIDEWALKS, CONCRETE & APPURTENANCES NECESSARY FOR THE COMPLETION OF THE CURB RAMP
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- TO BE REMOVED UNDER ITEM 100 "PREP. ROW"
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- HIGH VOLTAGE TRANSMISSION POLE
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- DELINEATOR (D-SW) SZ 1 (TYC) GF2 (BI)

NOTES:
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CO #5 - Change Order #5

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3. Redesign 5' sidewalks(North Side) & 8' sidewalks(South Side).

DAMIEN B. TIJERINA 104828 LICENSED PROFESSIONAL ENGINEER
8/26/2020
F-4105

S. R. MUNOZ 73384 LICENSED PROFESSIONAL ENGINEER
8/26/2020

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Fax : (956) 585-1927

MILE 3 ROAD
PLAN AND PROFILE
STA. 245+50 TO STA. 250+50

SCALE:
HORI 1"= 50'
VERT 1"= 10'

180a

SHEET 22 OF 46

DN:	CK DN: D.B.T.	DW:	CK DW: D.B.T.	TR:	CK TR:

FED.RD. DIV.NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TX.	STP	(	)MM	MILE 3 RD.
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
PHR	HIDALGO	0921	02	321	180

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8/26/2020

Change Order 3
C-20-294-02-23 (Hid. Co. &REIM Construction)