

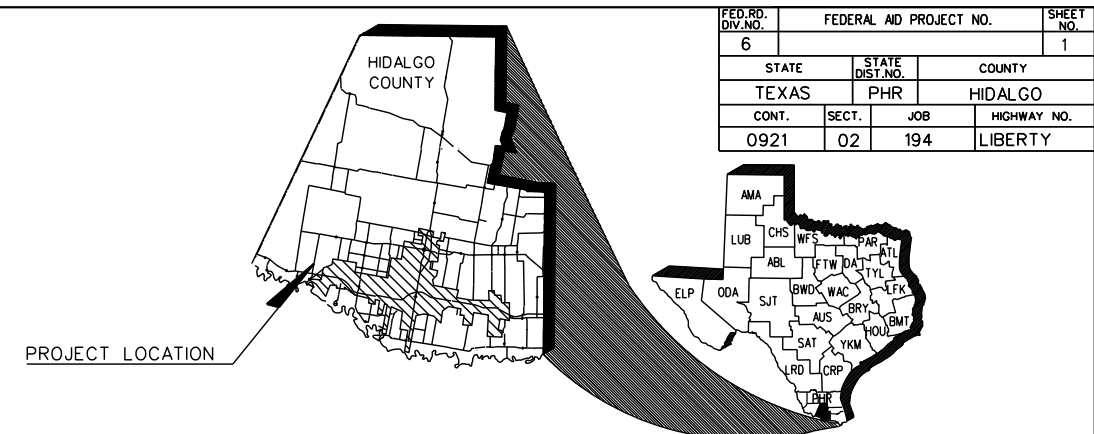
# Exhibit A

INDEX DATA  
SHEET ON PAGE 2

# HIDALGO COUNTY PRECINCT No.3

## PLANS OF PROPOSED ROADWAY IMPROVEMENT LIBERTY BLVD

CSJ: 0921-02-194 •  
PROJECT LENGTH: 12632.72 FT. • 2.393 MI.  
INCIDENTAL LENGTH: 1564.28 FT. • 0.296 MI.  
TOTAL LENGTH: 14197 FT. • 2.689 MI.



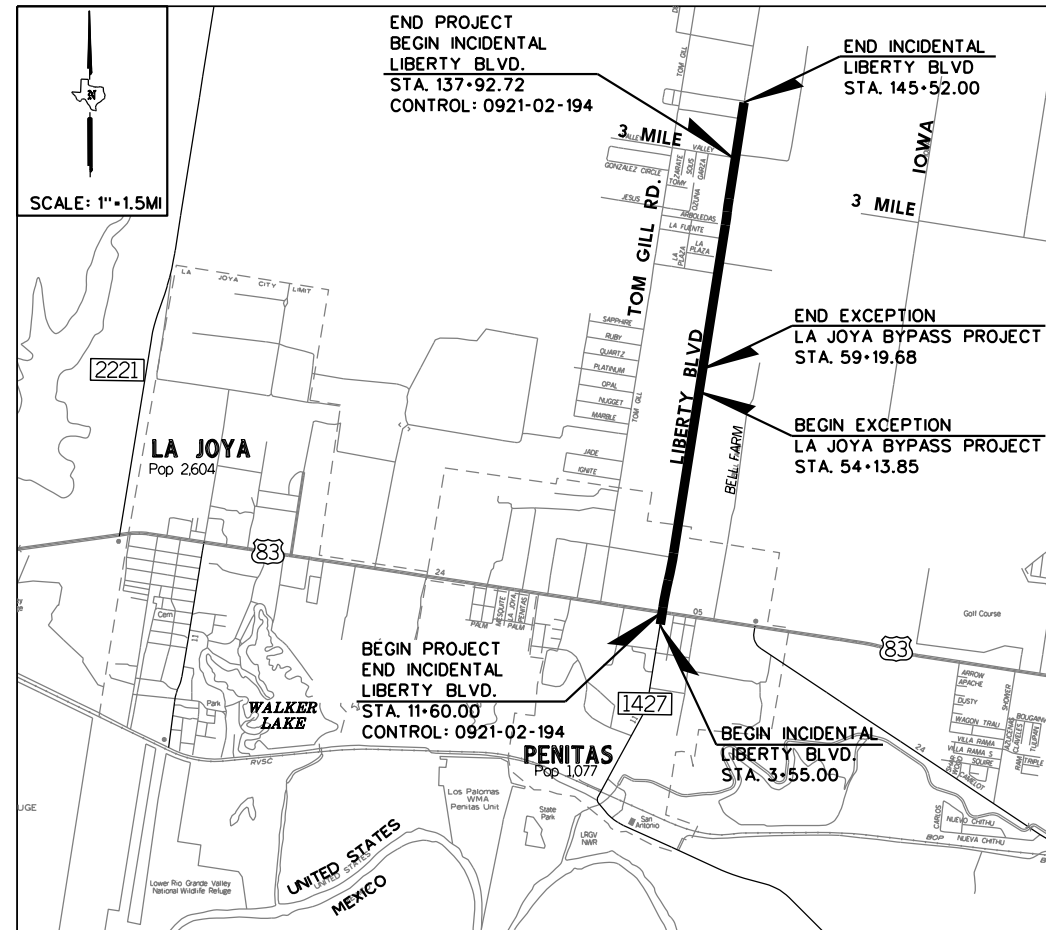
LIBERTY BLVD 0921-02-194

### HIDALGO COUNTY COMMISSIONERS COURT

**RICHARD F. CORTEZ**  
**DAVID L. FUENTES**  
**EDUARDO "EDDIE" CANTU**  
**JOE M. FLORES**  
**ELLIE TORRES**

**COUNTY JUDGE**  
**COMMISSIONER PCT. 1**  
**COMMISSIONER PCT. 2**  
**COMMISSIONER PCT. 3**  
**COMMISSIONER PCT. 4**

LIMITS: FROM US 83 TO MILE 3 RD.  
RECONSTRUCTION AND WIDENING OF A NON-FREEWAY FACILITY  
CONSISTING OF GRADING, LIME TREATED SUBGRADE, FLEXIBLE BASE, STRUCTURES  
ASPHALTIC CONCRETE PAVEMENT, CURB AND GUTTER, DRAINAGE STRUCTURE,  
STORM SEWER, SIGNING, DELINEATION, AND PAVEMENT MARKINGS.



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LIBERTY BLVD PROJECT DATA (CSJ: 0921-02-194)	
DESIGN SPEED: LIBERTY RD.: 55 mph	FUNCTION CLASS: LIBERTY RD.: MAJOR COLLECTOR
EXCEPTIONS: STA. 54+13.85 TO STA. 59+19.68	BRIDGE STA. 40+96.66 - STA. 41+31.66
RAILROAD CROSSINGS: NONE	ADT LIBERTY BLVD: 6,900 (2016) 10,300 (2036)
EQUATIONS: NONE	

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

LOCAL ENTITIES	
HIDALGO COUNTY IRRIG. DISTRICT NO. 6 CONCURRENCE :	DATE : <input type="text"/>
NAME : <input type="text"/>	TITLE : <input type="text"/>
HIDALGO COUNTY IRRIG. DISTRICT NO. 16 CONCURRENCE :	DATE : <input type="text"/>
NAME : <input type="text"/>	TITLE : <input type="text"/>
HIDALGO CO. DRAINAGE DIST. NO. 1 CONCURRENCE :	DATE : <input type="text"/>
NAME : <input type="text"/>	TITLE : <input type="text"/>

### L & G Engineering

2100 W. Expressway 83  
Mercedes, TX. 78570  
Phone : (956) 585-9813  
Fax : (956) 585-9018

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

Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

DATE :

NAME :  TITLE :

© 2020  
**Texas Department of Transportation**

DATE :

NAME :  TITLE :

NAME :

TITLE :

DATE :

NAME :

TITLE :

DATE :

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED TDLR NO. \_\_\_\_\_

BEGIN INCIDENTAL  
LIBERTY BLVD  
STA. 3+55.00

BEGIN PROJECT  
END INCIDENTAL  
LIBERTY BLVD  
CSJ: 0921-02-194  
STA. 11+60.00



3+00

5+00

N 8° 55' 21.12" E  
861.73' 10+00

US 83 EASTBOUND  
STA 38 US

US 83 WESTBOUND

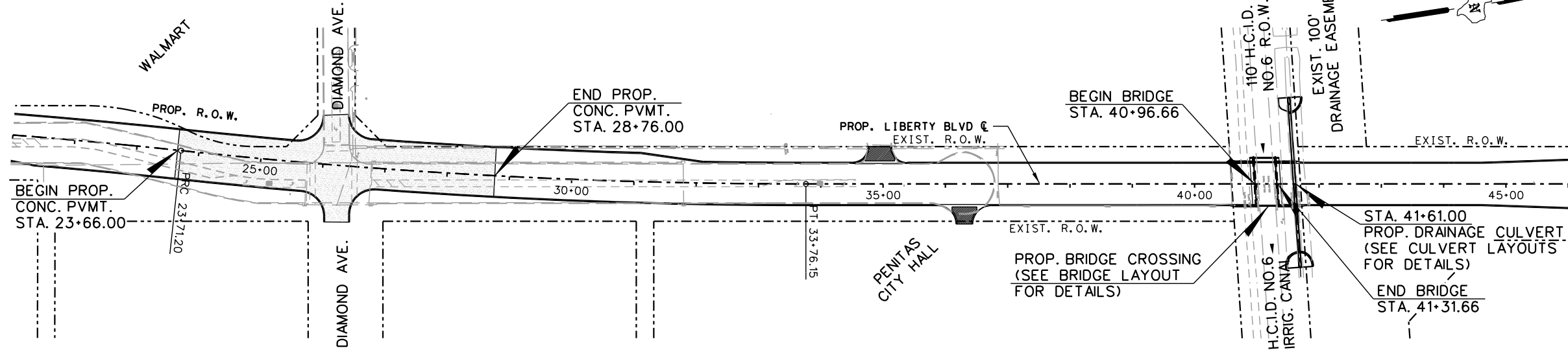
DENNYS

PROP. R.O.W.

WALMART  
ENTRANCE

WALMART  
ENTRANCE

PROP. LIBERTY BLVD C  
EXIST. R.O.W.



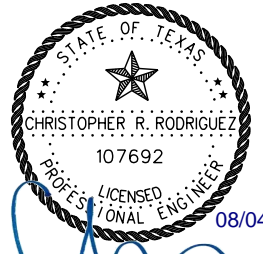
BEGIN PROP.  
CONC. PVMT.  
STA. 23+66.00

END PROP.  
CONC. PVMT.  
STA. 28+76.00

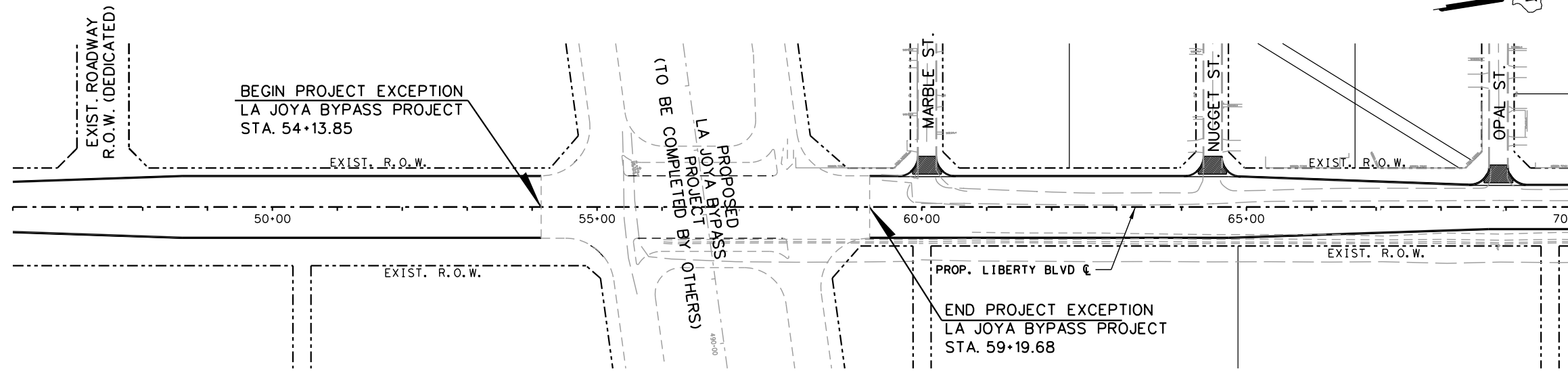
BEGIN BRIDGE  
STA. 40+96.66

STA. 41+61.00  
PROP. DRAINAGE CULVERT  
(SEE CULVERT LAYOUTS  
FOR DETAILS)

END BRIDGE  
STA. 41+31.66



08/04/2020



BEGIN PROJECT EXCEPTION  
LA JOYA BYPASS PROJECT  
STA. 54+13.85

PROPOSED  
LA JOYA BYPASS  
PROJECT  
(TO BE COMPLETED  
BY OTHERS)

END PROJECT EXCEPTION  
LA JOYA BYPASS PROJECT  
STA. 59+19.68



**L & G Engineering**

Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

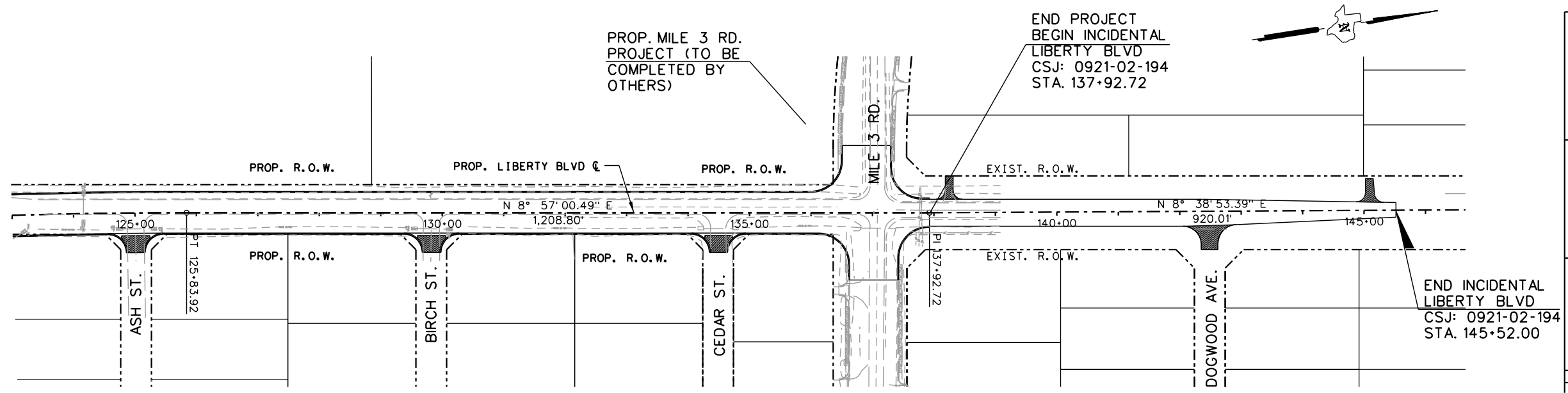
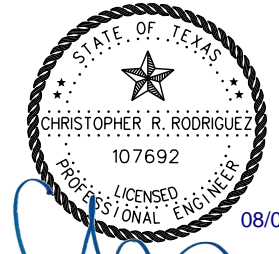
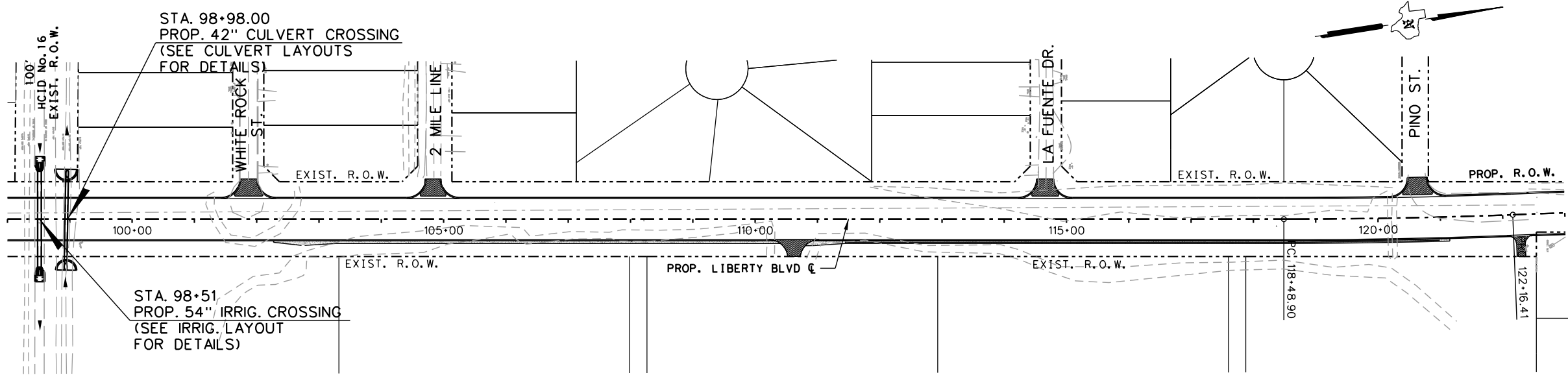
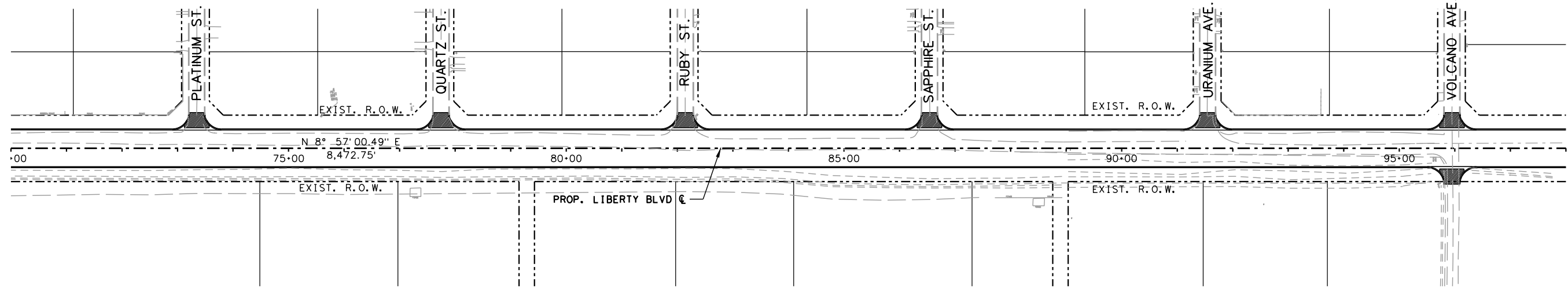
2100 W. Expressway 83  
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Fax : (956) 585-1927

**LIBERTY BLVD  
PROJECT LAYOUT**

SCALE 1" = 200' SHEET 1 OF 2

DN:	FED. NO.	STATE	PROJECT NO.	SHEET NO.
CK DN:	6	TEXAS		3
DW:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DW:	PHR	HIDALGO	0921	02
TR:	JOB NO.	HIGHWAY NO.		
CK TR:	194	LIBERTY		

P:\Clients\Firms\L&G\Liberty Rd (US83 to Mile 3)\01 GENERAL\03 Proj\Layout\Liberty\_Playout1.dgn 8/4/2020



**L & G Engineering**  
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 Structural / Bridge  
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**LIBERTY BLVD  
 PROJECT LAYOUT**

SCALE 1" = 200' SHEET 2 OF 2

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		4
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY

P:\Clients\Firms\L&G\Liberty Rd (US83 to Mile 3)\01 GENERAL\03 Proj\Layout\Liberty\_Playout02.dgn  
 8/4/2020

GENERAL NOTES:  
 WHERE REQUIRED BY FIXTURES OR UNUSUAL CONDITIONS, THE GOVERNING SLOPES MAY BE VARIED WHEN SPECIFICALLY DIRECTED BY THE ENGINEER.

THE TOP 4 INCHES (MIN.) OF THE PROP. FLEXBASE SHALL BE NEW MATERIAL.

WHERE POSSIBLE AND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, PERMISSIBLE CONSTR. JOINTS SHALL FALL ON STRIPING LINES AS SHOWN ON STRIPING DETAILS.

ALL GRADING SHALL BE WITHIN THE R.O.W. LIMITS.

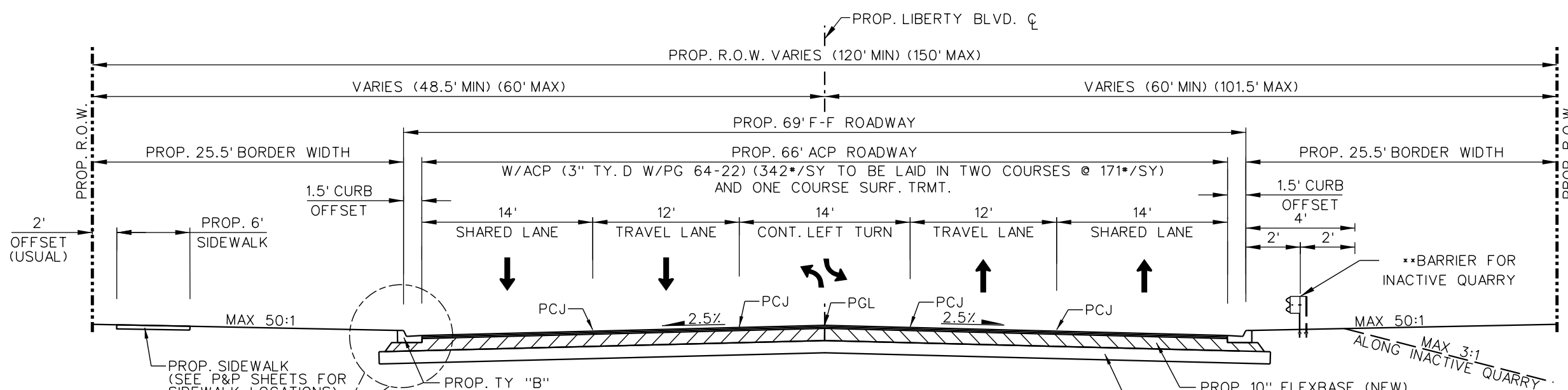
114\*/SY OF ACP IS EQUIVALENT TO 1" DEPTH OF ACP.

PGL - DENOTES PROFILE GRADE LINE

PCJ - DENOTES PERMISSIBLE CONSTRUCTION JOINT

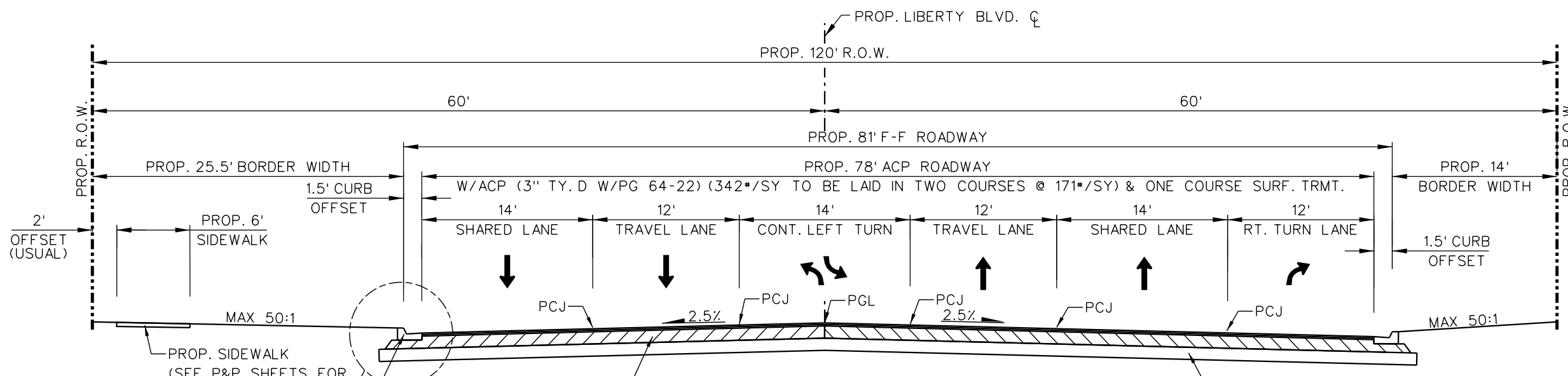
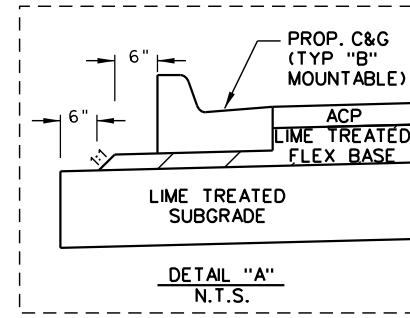
A STATION IS EQUIVALENT TO 100 FT.

LIMITS OF BARRIER  
 STA. 100+00.00 TO STA. 121+50.00



**PROP. LIBERTY BLVD. TYPICAL SECTION**

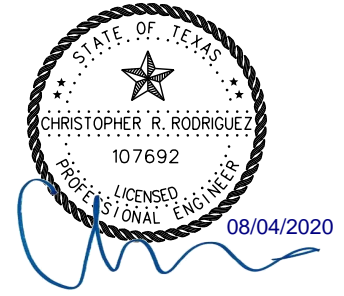
- STA. 11+60.00 TO STA. 20+37.00
- STA. 20+37.00 TO STA. 21+38.00 (TRANSITION 69' F-F TO 81' F-F RDWY)
- STA. 32+10.00 TO STA. 40+96.66
- STA. 40+96.66 TO STA. 41+31.66 (PROP. BRIDGE LAYOUT)
- STA. 41+31.66 TO STA. 44+61.00
- STA. 44+61.00 TO STA. 48+61.00 (TRANSITION 69' F-F TO 96' F-F RDWY)
- STA. 68+73.00 TO STA. 136+12.00
- STA. 136+12.00 TO STA. 137+92.72 (TRANSITION 69' F-F TO 44' F-F RDWY)



**PROP. LIBERTY BLVD. TYPICAL SECTION**

- STA. 21+38.00 TO STA. 23+66.00
- STA. 28+76.00 TO STA. 31+10.00
- STA. 31+10.00 TO STA. 32+10.00 (TRANSITION 81' F-F TO 69' F-F RDWY)

PROP. 12" LIME TREATED SUBGRADE (EST. 944.44 SY/STA) W/ 4% LIME ADMIX BY WT. (EST. 18.70 TONS/STA)



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**LIBERTY BLVD  
 PROPOSED TYPICAL SECTIONS**

NTS SHEET 1 OF 3

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		9
DW:				
CK DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
TR:	PHR	HIDALGO	0921	02
CK TR:				JOB NO.:
				194
				HIGHWAY NO.:
				LIBERTY

8/4/2020 P:\Clients\Firms\L&G\Liberty Rd US83 to Me 31\01 GENERAL\04 Typical Sections\LIBERTY\_PROP TYP SECT.dgn

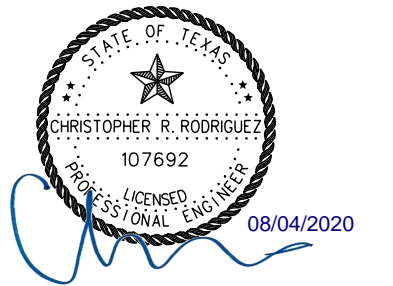
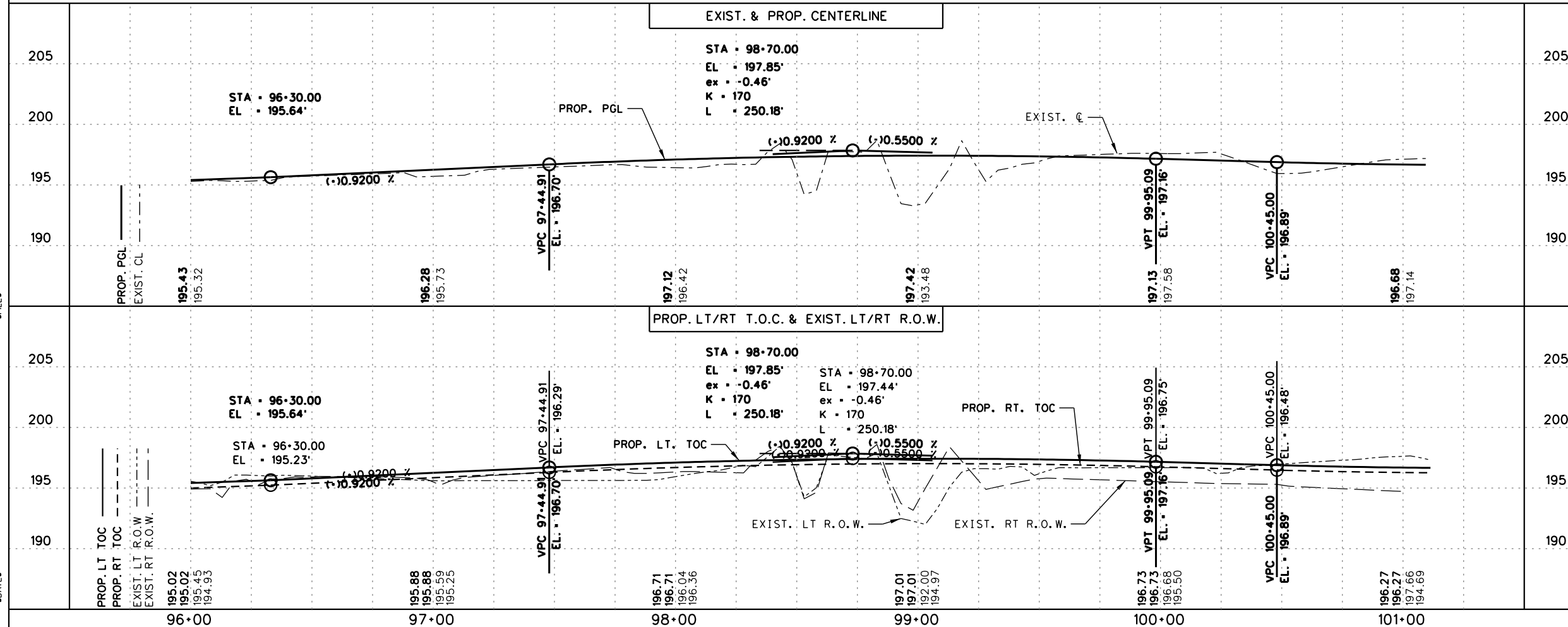
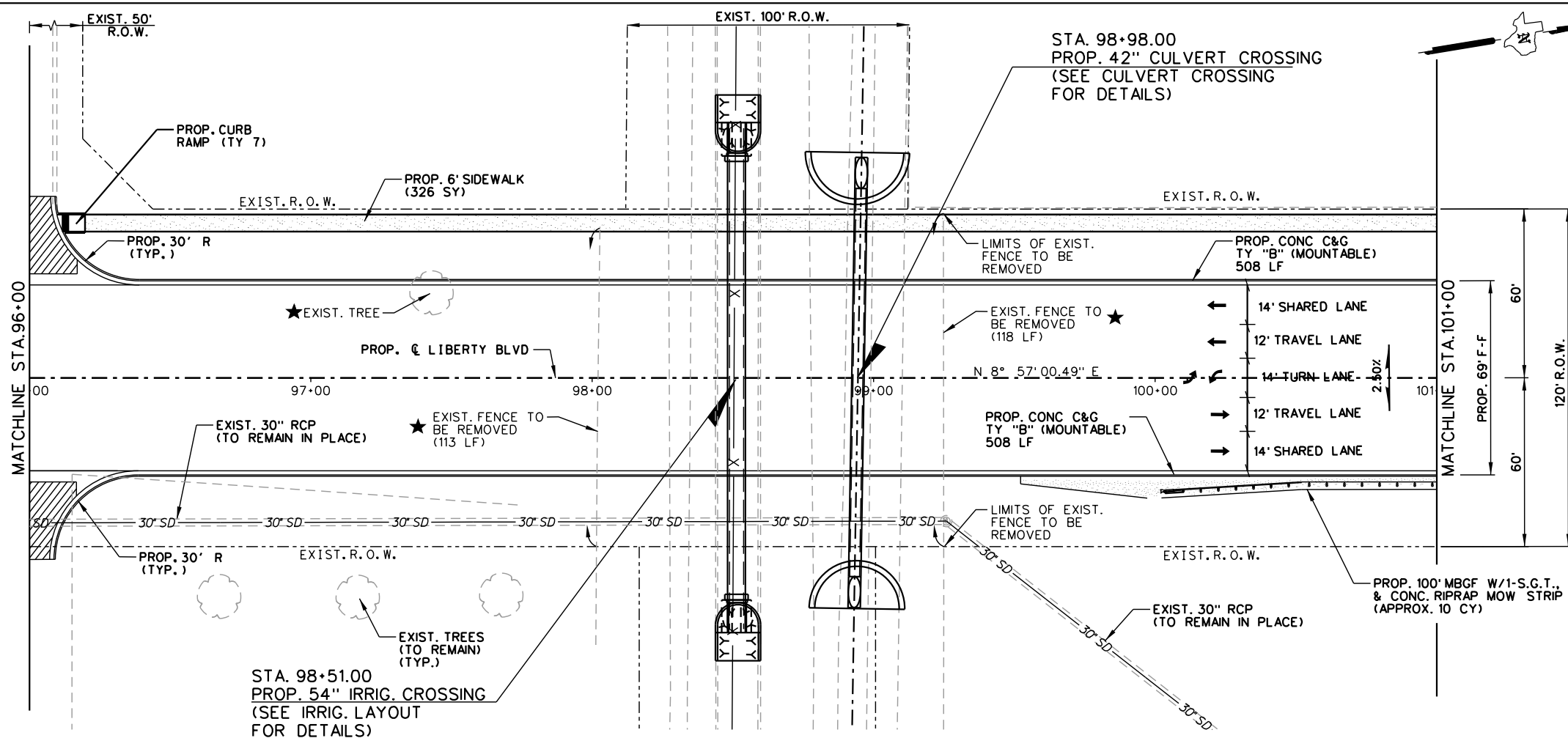
SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
529	CONC CURB & GUTTER (TY-B) (MOUNTABLE)	LF	1016
531	CONCRETE SIDEWALKS	SY	326
531	CURB RAMPS (TY 7)	EA	1
432	RIPRAP (MOW STRIP)(4")	CY	10
540	METAL BEAM GUARD FENCE	LF	100
544	GUARDRAIL END TRTMT (INSTALL)	EA	1

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR QUANTITIES & PIPE QUANTITIES)
- PROPOSED PLANNING (0-1 1/2")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- EXIST ROAD TO BE REMOVED (ITEM 110)
- DIRECTION OF TRAFFIC
- 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"
- DITCH

- NOTES:
- SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
  - SEE SURVEY DATA SHEETS FOR BM STATIONS, OFFSET, ELEV, ETC.
  - FOR DRAINAGE & UTILITIES INFORMATION SEE U&D'S SHEETS



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LIBERTY BLVD  
 PLAN AND PROFILE  
 STA. 96+00 TO STA. 101+00

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

SHEET 19 OF 28

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		91
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY

SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCT EXCAVATION (NON-PAY)	CY	50
400	STRUCT EXCAVATION (SPL)	CY	-
400	SAND BACKFILL	CY	21
400	CUT & RESTORE	SY	-
402	TRENCH EXCAVATION PROT.	LF	66
464	18" RCP SEWER (CL III)(SPL)	LF	66

SEE STORM DRAINAGE TABLE FOR PROPOSED DRAINAGE INLET STRUCTURE INFORMATION

LEGEND

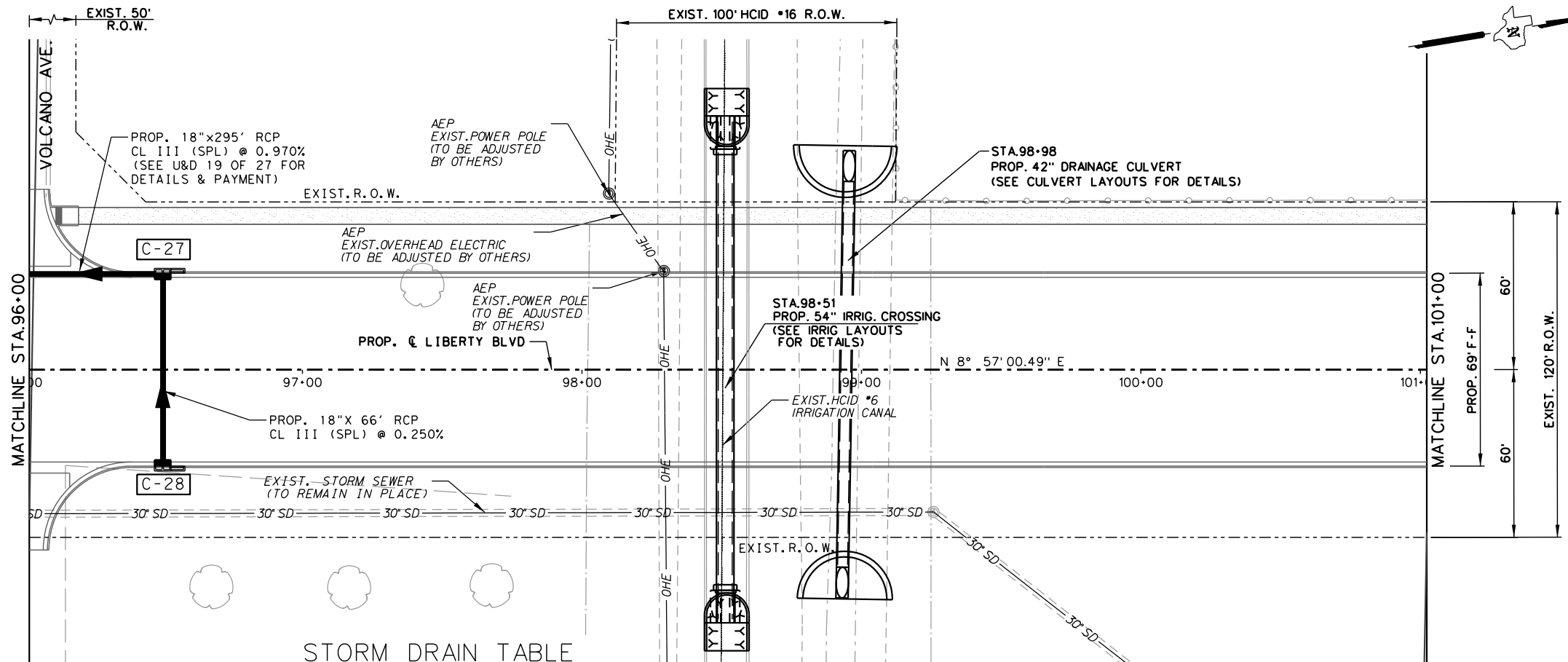
- SEE P&P SHEETS FOR DETAILS
- TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- DIRECTION OF PROPOSED DITCH
- LIMITS OF PROP. CUT & RESTORE (ITEM 400)
- NON-PAY, SUBSIDIARY TO PERTINENT ITEMS

NOTES:  
SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.

ALL RCP SHALL BE CL III(SPL) UNLESS OTHERWISE NOTED.

SEE HYD. DATA SHEETS FOR HYDRAULIC GRADE LINE (H.G.L.) ELEVATIONS

THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

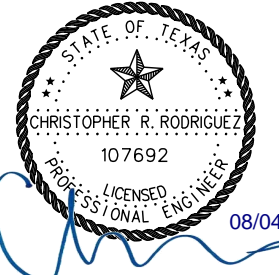
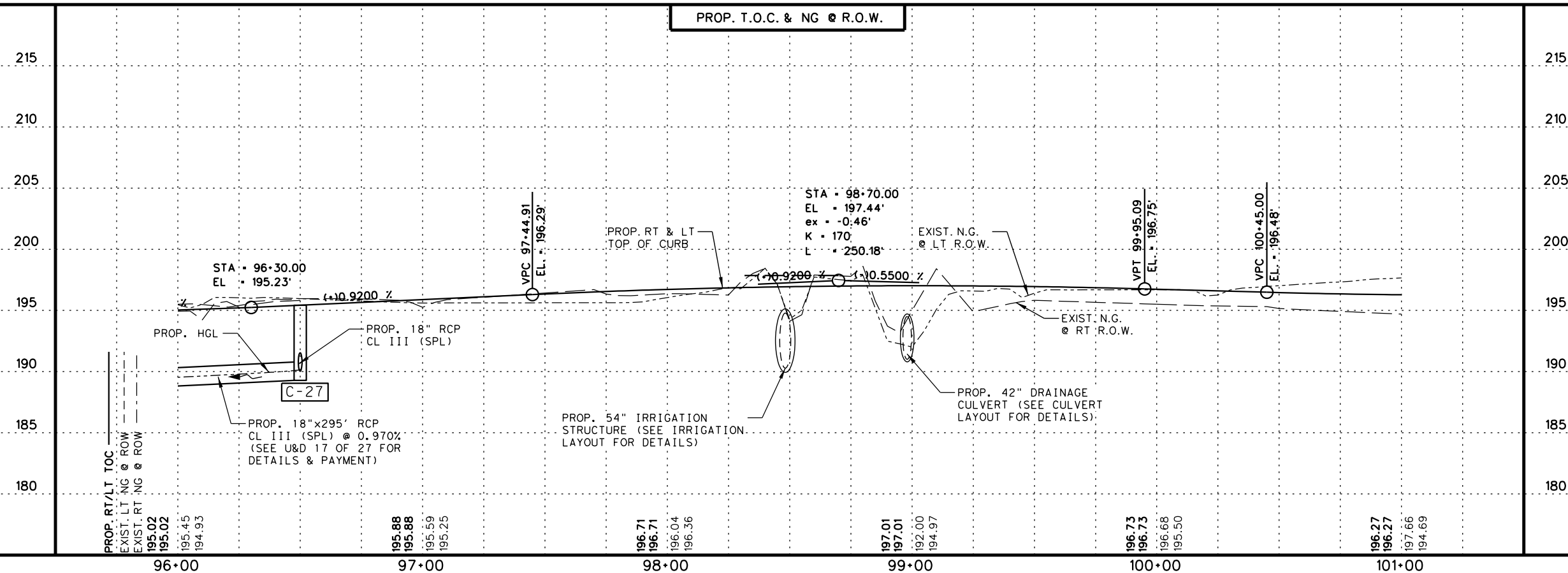


STORM DRAIN TABLE

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)
C-27	PCU10R-3x5	96+50.00-34.50	195.42	189.30		189.30	190.03	
C-28	PCU10L-3x5	96+50.00-34.50	195.42	190.20				190.20

UTILITIES LEGEND

AEP	AMERICAN ELECTRIC POWER
AT&T	AMERICAN TELEPHONE & TELEGRAPH
TGS	TEXAS GAS SERVICE
HILCORP	HILCORP ENERGY COMPANY
ENTERPRISE	ENTERPRISE PRODUCTS
UNITED	UNITED IRRIGATION DISTRICT
HCID#6	HIDALGO COUNTY IRRIGATION DISTRICT No 6



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LIBERTY BLVD  
 UTILITY AND DRAINAGE  
 STA. 96+00 TO STA. 101+00

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

SHEET 18 OF 27

DN:	FED. NO. / DIV. NO.	STATE	PROJECT NO.	SHEET NO.		
CK DN:	6	TEXAS		161		
CK DW:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.
TR:	PHR	HIDALGO	0921	02	194	LIBERTY
CK TR:						

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8/4/2020

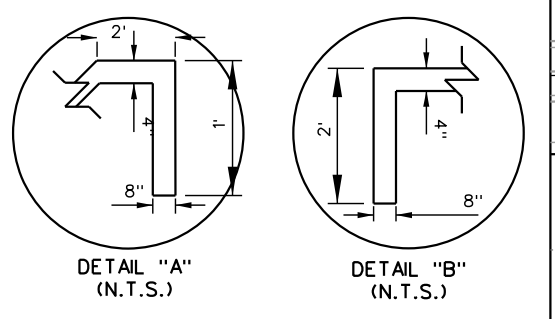
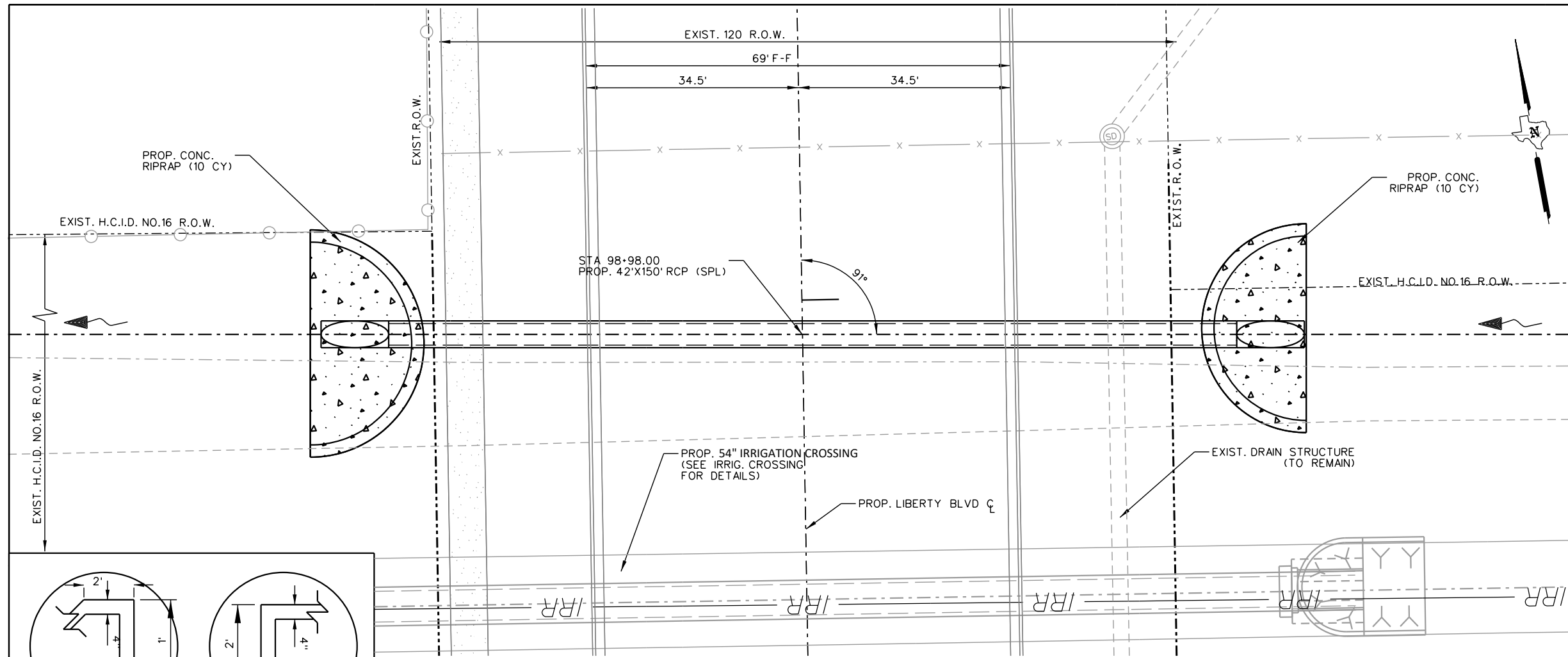
SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
132	EMBANKMENT (FINAL)(DC)(TY C)	CY	111
400	STRUCT. EXCAVATION (NON-PAY)	-	-
400	STRUCT. EXCAVATION (SPL)	CY	28
400	SAND BACKFILL	CY	77
432	RIPRAP (CONC.) (4")	CY	20
464	RC PIPE (CL III) (42 IN)	LF	140

\* FOR CONTRACTORS INFORMATION ONLY

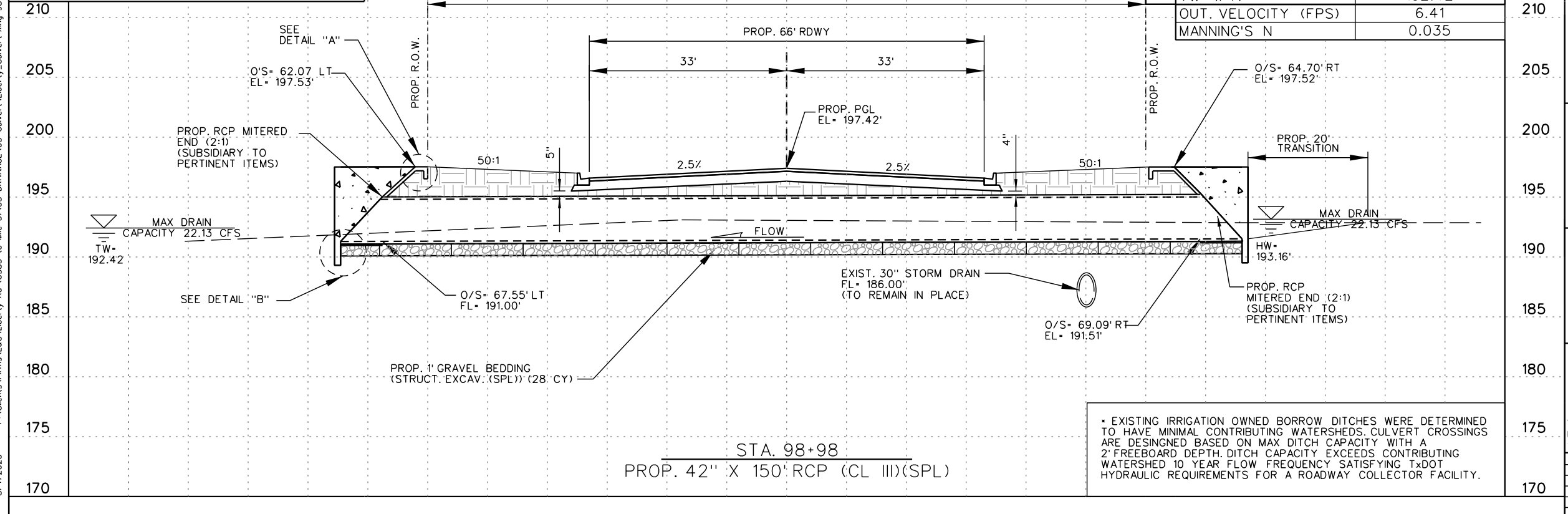
**LEGEND**

- SEE P&P SHEETS FOR DETAILS
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
- ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ⊙ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/ TURNOUT TABLE FOR QUANTITIES AND DETAILS)

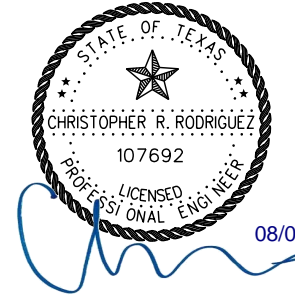
- NOTE:
- THE CONTRACTOR WILL COORDINATE WITH HIDALGO COUNTY IRRIG DISTRICT #16. 72 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES.
  - PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS WHEN WORKING OUTSIDE THE ROW. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
  - THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
  - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
  - SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.



CULVERT HYDRAULICS		
	MAXIMUM CAPACITY	
FLOW (CFS)	22.13	215
HW (FT)	193.16	
TW (FT)	192.42	210
OUT. VELOCITY (FPS)	6.41	
MANNING'S N	0.035	



\* EXISTING IRRIGATION OWNED BORROW DITCHES WERE DETERMINED TO HAVE MINIMAL CONTRIBUTING WATERSHEDS. CULVERT CROSSINGS ARE DESIGNED BASED ON MAX DITCH CAPACITY EXCEEDS CONTRIBUTING WATERSHED 10 YEAR FLOW FREQUENCY SATISFYING TxDOT HYDRAULIC REQUIREMENTS FOR A ROADWAY COLLECTOR FACILITY.



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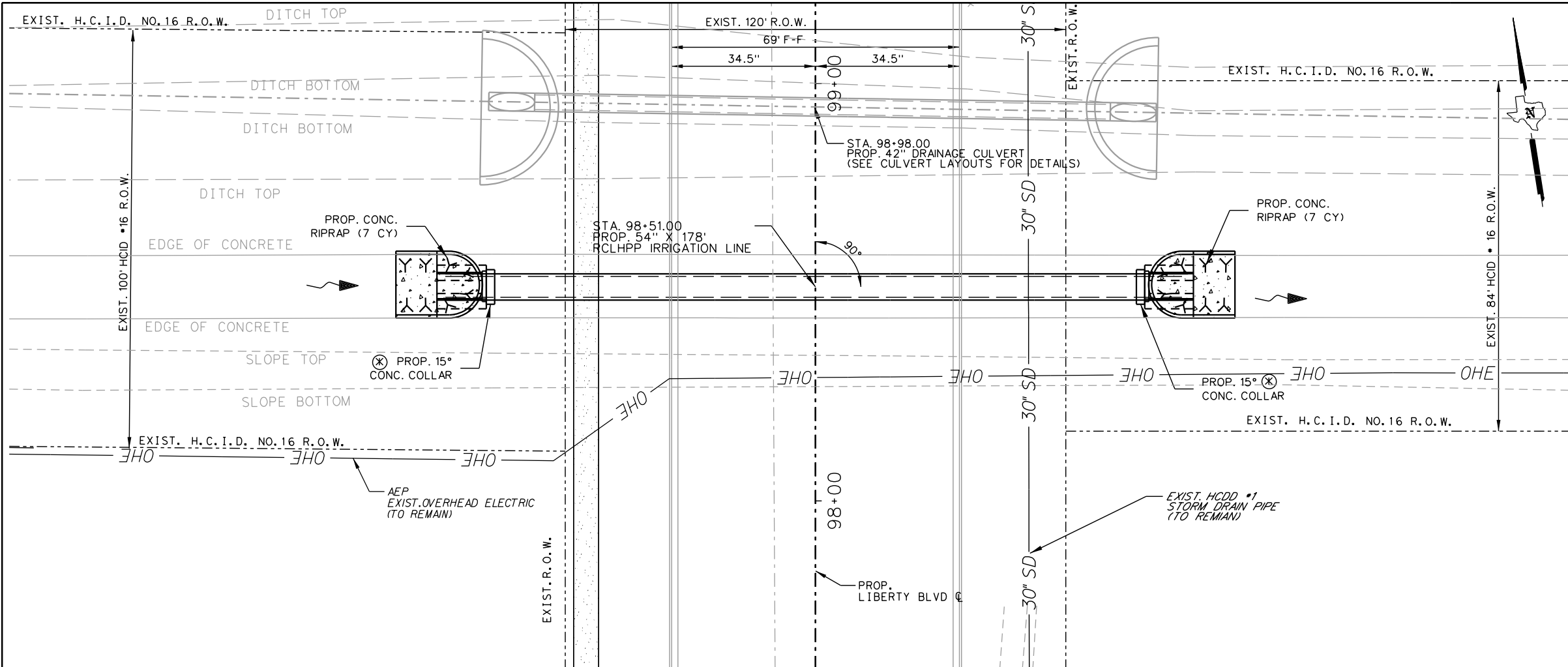
**LIBERTY BLVD  
CULVERT CROSSING  
STA 98+98**

SCALE:  
HOR: 1" = 20'  
VER: 1" = 10'

SHEET 2 OF 2

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		175
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY

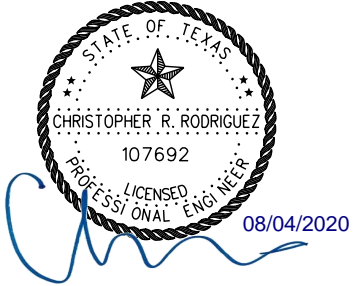
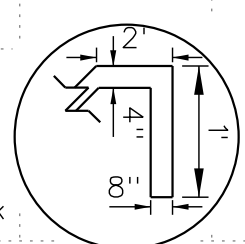
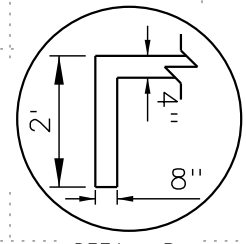
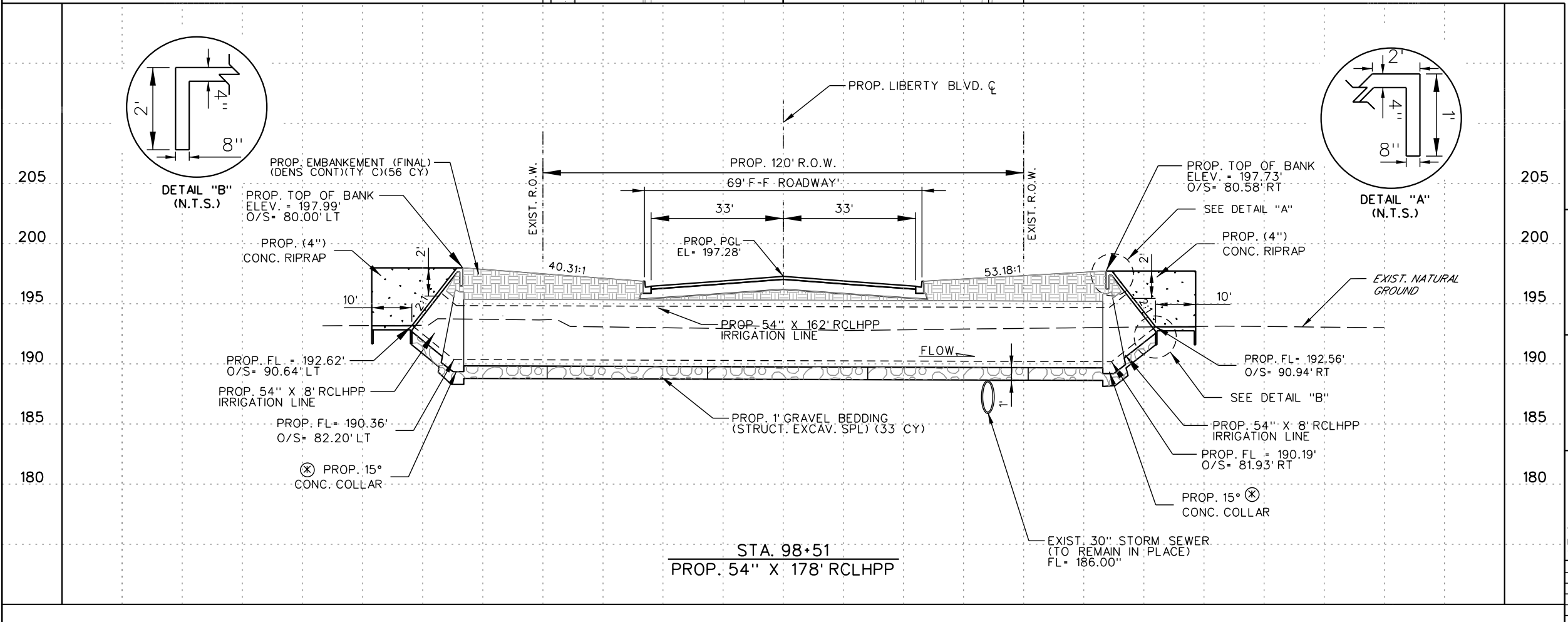
P:\Clients\Firms\L&G\Liberty Rd US83 to Mile 3\1\05 DRAINAGE\05 Culvert\Liberty\_Culvert\_Xing 98+98.dgn  
8/4/2020



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
104	REMOVING CONC. (RIPRAP)	SY	490
132	EMBANKMENT (FINAL)(DC)(TY C)	CY	56
400	STRUCT. EXCAVATION (NON-PAY)	CY	809
400	STRUCT. EXCAVATION (SPL)	CY	33
400	SAND BACKFILL	CY	275
402	TRENCH EXCAV. PROTECTION	LF	178
4.32	RIPRAP (CONC.) (4")	CY	14
4024	RCLHPP CLIII (54")	LF	178

- LEGEND**
- SEE P&P SHEETS FOR DETAILS
  - ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
  - ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
  - ⊛ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
  - ▨ LIMITS OF PROP. CUT & RESTORE (ITEM 400)

- NOTE:**
- THE CONTRACTOR WILL COORDINATE WITH HIDALGO COUNTY IRRIG DISTRICT #16. 72 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES.
  - PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS WHEN WORKING OUTSIDE THE ROW. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
  - THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
  - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
  - SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.



**L & G Engineering**  
 Highway / Civil  
 Structural / Bridge  
 Environmental  
 Firm No. : F-4105

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

**LIBERTY BLVD  
 IRRIGATION LAYOUT  
 STA. 98+51**

SCALE:  
 HOR: 1" = 30'  
 VER: 1" = 10'

SHEET 1 OF 1

DN:	FED. NO.	STATE	PROJECT NO.	SHEET NO.
CK DN:	6	TEXAS		176
DW:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DW:	PHR	HIDALGO	0921	02
TR:				JOB NO.
CK TR:				194
				HIGHWAY NO.
				LIBERTY

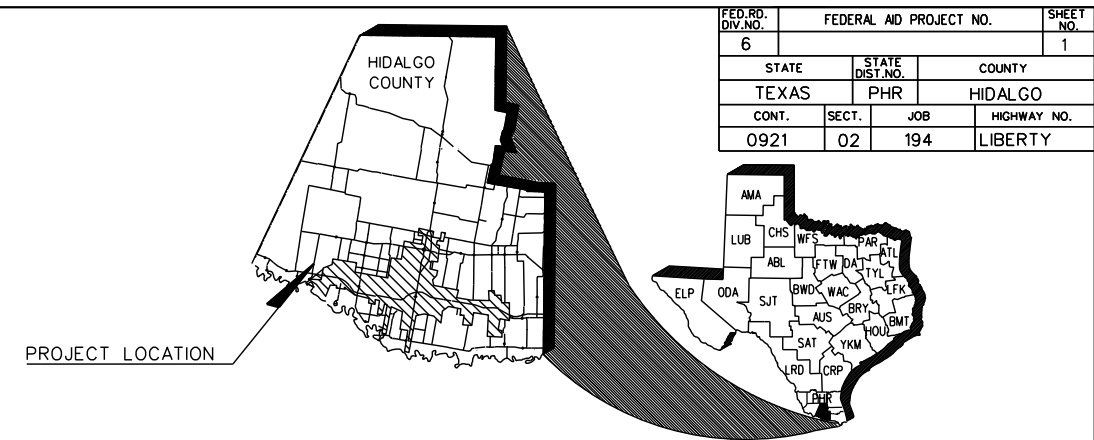
P:\Clients\Firms\L&G\Liberty Rd (US83 to Mile 31)\05 DRAINAGE\06 Irrigation\Liberty\_IRRIG\_XING.dgn  
 8/4/2020

INDEX DATA  
SHEET ON PAGE 2

# HIDALGO COUNTY PRECINCT No.3

## PLANS OF PROPOSED ROADWAY IMPROVEMENT LIBERTY BLVD

CSJ: 0921-02-194 •  
PROJECT LENGTH: 12632.72 FT. • 2.393 MI.  
INCIDENTAL LENGTH: 1564.28 FT. • 0.296 MI.  
TOTAL LENGTH: 14197 FT. • 2.689 MI.



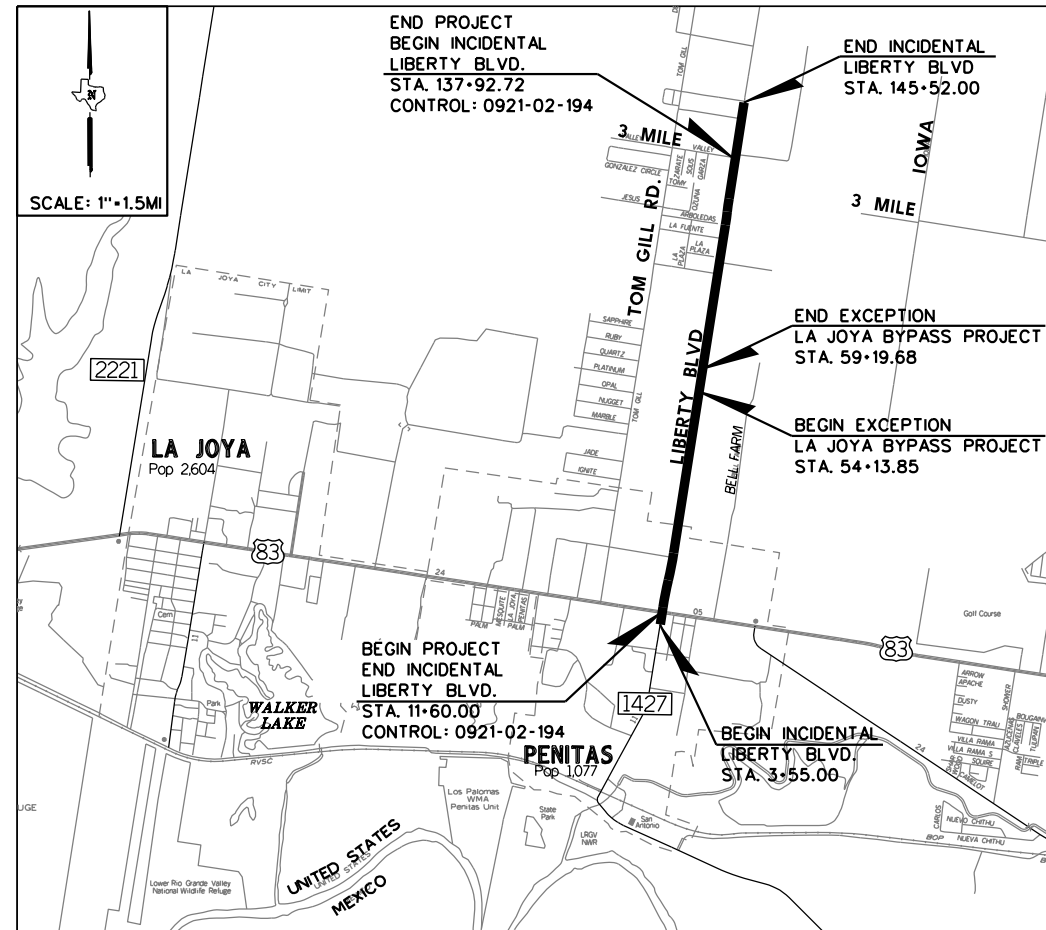
LIBERTY BLVD 0921-02-194

### HIDALGO COUNTY COMMISSIONERS COURT

**RICHARD F. CORTEZ**  
**DAVID L. FUENTES**  
**EDUARDO "EDDIE" CANTU**  
**JOE M. FLORES**  
**ELLIE TORRES**

**COUNTY JUDGE**  
**COMMISSIONER PCT. 1**  
**COMMISSIONER PCT. 2**  
**COMMISSIONER PCT. 3**  
**COMMISSIONER PCT. 4**

LIMITS: FROM US 83 TO MILE 3 RD.  
RECONSTRUCTION AND WIDENING OF A NON-FREEWAY FACILITY  
CONSISTING OF GRADING, LIME TREATED SUBGRADE, FLEXIBLE BASE, STRUCTURES  
ASPHALTIC CONCRETE PAVEMENT, CURB AND GUTTER, DRAINAGE STRUCTURE,  
STORM SEWER, SIGNING, DELINEATION, AND PAVEMENT MARKINGS.



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LIBERTY BLVD PROJECT DATA (CSJ: 0921-02-194)	
DESIGN SPEED: LIBERTY RD.: 55 mph	FUNCTION CLASS: LIBERTY RD.: MAJOR COLLECTOR
EXCEPTIONS: STA. 54+13.85 TO STA. 59+19.68	BRIDGE STA. 40+96.66 - STA. 41+31.66
RAILROAD CROSSINGS: NONE	ADT LIBERTY BLVD: 6,900 (2016) 10,300 (2036)
EQUATIONS: NONE	

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

LOCAL ENTITIES	
HIDALGO COUNTY IRRIG. DISTRICT NO. 6 CONCURRENCE :	DATE : <input type="text"/>
NAME <input type="text"/>	TITLE <input type="text"/>
HIDALGO COUNTY IRRIG. DISTRICT NO. 16 CONCURRENCE :	DATE : <input type="text"/>
NAME <input type="text"/>	TITLE <input type="text"/>
HIDALGO CO. DRAINAGE DIST. NO. 1 CONCURRENCE :	DATE : <input type="text"/>
NAME <input type="text"/>	TITLE <input type="text"/>

<b>L&amp;G Engineering</b> Highway / Civil Structural / Bridge Environmental Firm No. : F-4105	2100 W. Expressway 83 Mercedes, TX. 78570 Phone : (956) 585-9813 Fax : (956) 585-9018
	900 S. Stewart Rd., Ste. 10 Mission, TX. 78572 Phone : (956) 585-1909 Fax : (956) 585-1927
NAME <input type="text"/>	TITLE <input type="text"/>
DATE : <input type="text"/>	<input type="text"/>

© 2020 Texas Department of Transportation	
NAME <input type="text"/>	TITLE <input type="text"/>
DATE : <input type="text"/>	<input type="text"/>

THE CITY OF PENITAS TEXAS FOUNDED 1929	NAME <input type="text"/>
	TITLE <input type="text"/>
DATE : <input type="text"/>	<input type="text"/>

THE COUNTY OF HIDALGO TEXAS	NAME <input type="text"/>
	TITLE <input type="text"/>
DATE : <input type="text"/>	<input type="text"/>

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED TDLR NO. \_\_\_\_\_

BEGIN INCIDENTAL  
LIBERTY BLVD  
STA. 3+55.00

BEGIN PROJECT  
END INCIDENTAL  
LIBERTY BLVD  
CSJ: 0921-02-194  
STA. 11+60.00



3+00

5+00

N 8° 55' 21.12" E  
861.73' 10+00

US 83 EASTBOUND

US 83 WESTBOUND

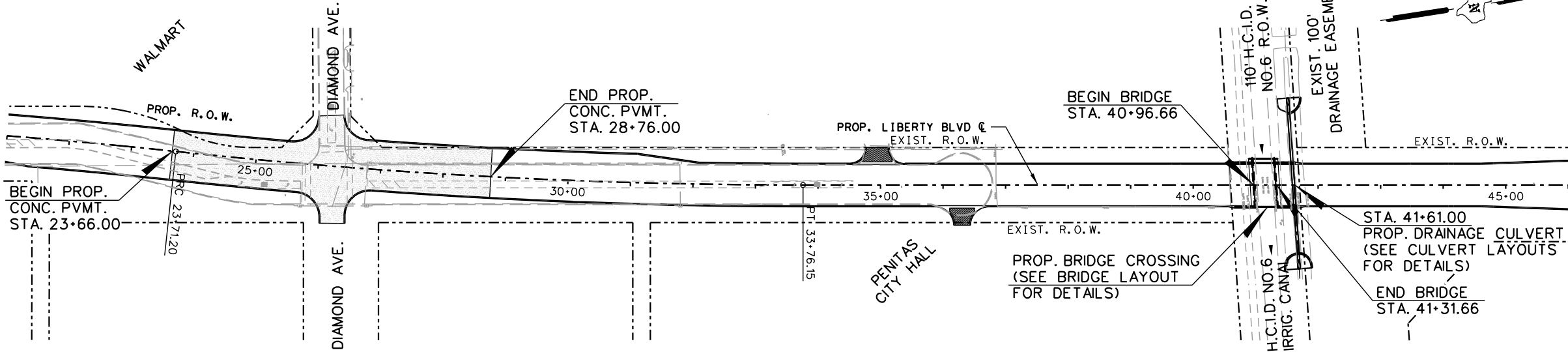
DENNYS

PROP. R.O.W.

WALMART  
ENTRANCE

WALMART  
ENTRANCE

PROP. LIBERTY BLVD C  
EXIST. R.O.W.



BEGIN PROP.  
CONC. PVMT.  
STA. 23+66.00

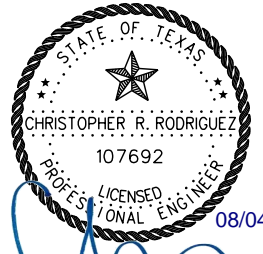
END PROP.  
CONC. PVMT.  
STA. 28+76.00

BEGIN BRIDGE  
STA. 40+96.66

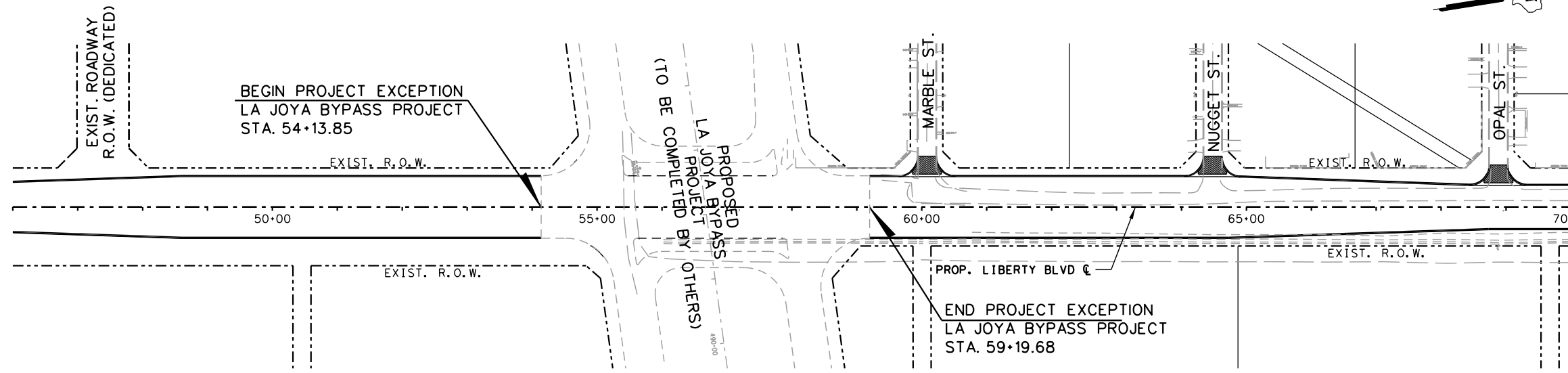
STA. 41+61.00  
PROP. DRAINAGE CULVERT  
(SEE CULVERT LAYOUTS  
FOR DETAILS)

END BRIDGE  
STA. 41+31.66

PROP. BRIDGE CROSSING  
(SEE BRIDGE LAYOUT  
FOR DETAILS)



08/04/2020



BEGIN PROJECT EXCEPTION  
LA JOYA BYPASS PROJECT  
STA. 54+13.85

PROPOSED  
LA JOYA BYPASS  
PROJECT  
(TO BE COMPLETED  
BY OTHERS)

END PROJECT EXCEPTION  
LA JOYA BYPASS PROJECT  
STA. 59+19.68



**L & G Engineering**

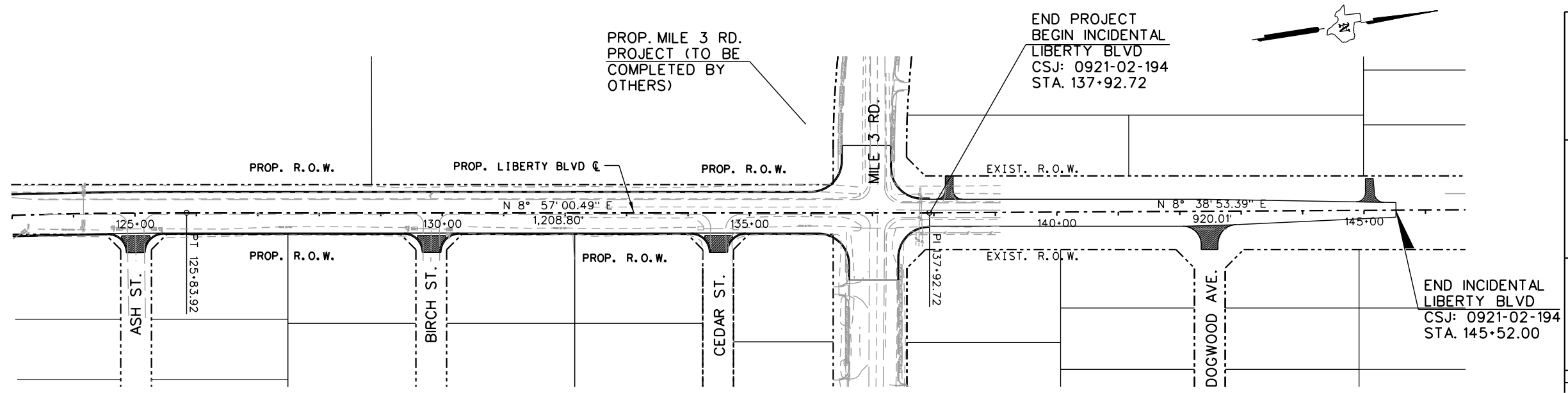
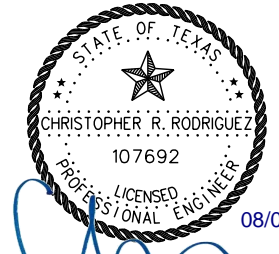
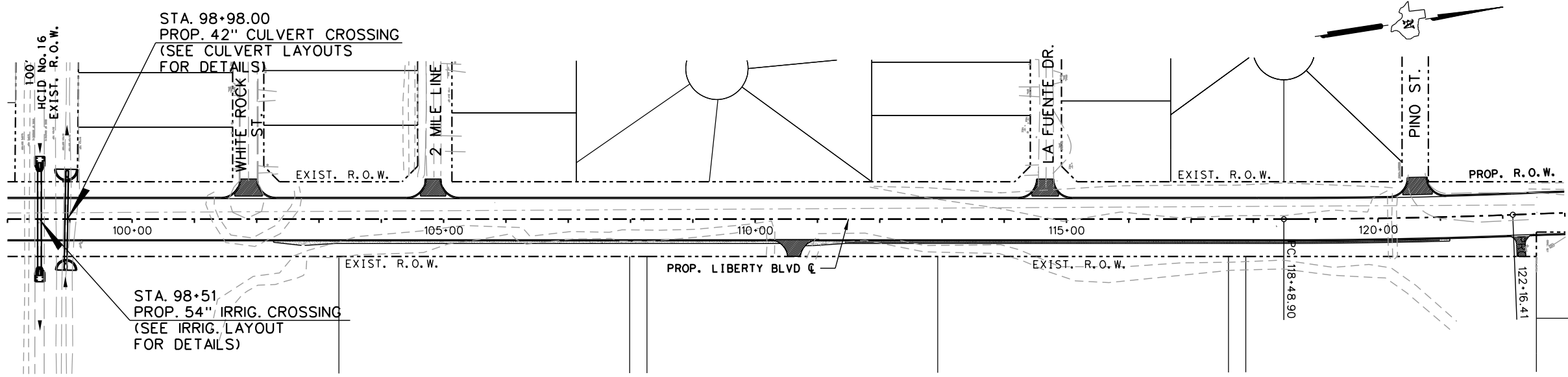
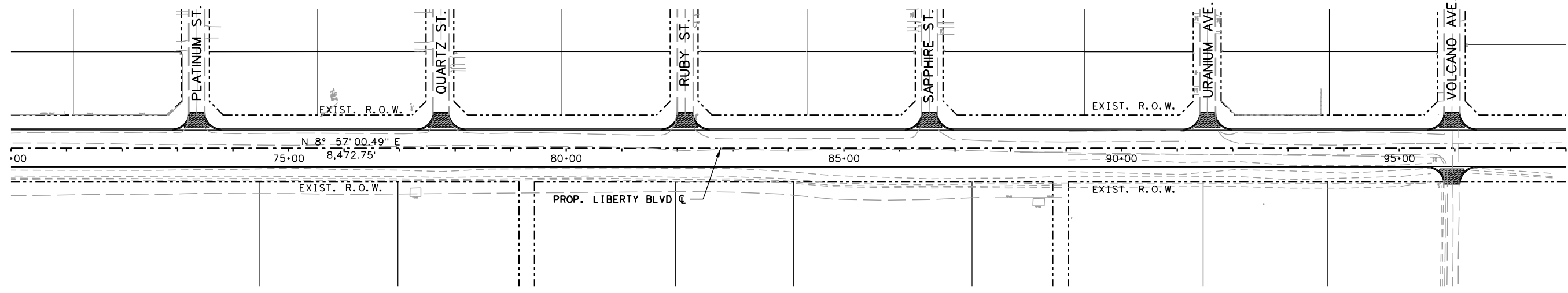
Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

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

**LIBERTY BLVD  
PROJECT LAYOUT**

SCALE 1" = 200' SHEET 1 OF 2

DN:	FED. NO.	STATE	PROJECT NO.	SHEET NO.
CK DN:	6	TEXAS		3
DW:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CK DW:	PHR	HIDALGO	0921	02
TR:	JOB NO.	HIGHWAY NO.		
CK TR:	194	LIBERTY		



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**LIBERTY BLVD  
 PROJECT LAYOUT**

SCALE 1" = 200' SHEET 2 OF 2

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		4
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY

GENERAL NOTES:  
 WHERE REQUIRED BY FIXTURES OR UNUSUAL CONDITIONS, THE GOVERNING SLOPES MAY BE VARIED WHEN SPECIFICALLY DIRECTED BY THE ENGINEER.

THE TOP 4 INCHES (MIN.) OF THE PROP. FLEXBASE SHALL BE NEW MATERIAL.

WHERE POSSIBLE AND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, PERMISSIBLE CONSTR. JOINTS SHALL FALL ON STRIPING LINES AS SHOWN ON STRIPING DETAILS.

ALL GRADING SHALL BE WITHIN THE R.O.W. LIMITS.

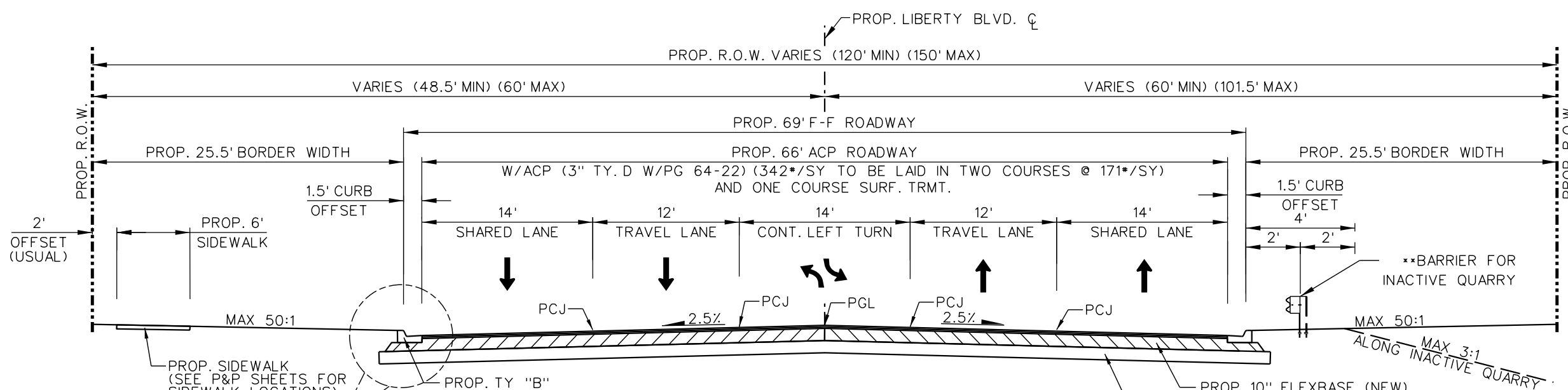
114#/SY OF ACP IS EQUIVALENT TO 1" DEPTH OF ACP.

PGL - DENOTES PROFILE GRADE LINE

PCJ - DENOTES PERMISSIBLE CONSTRUCTION JOINT

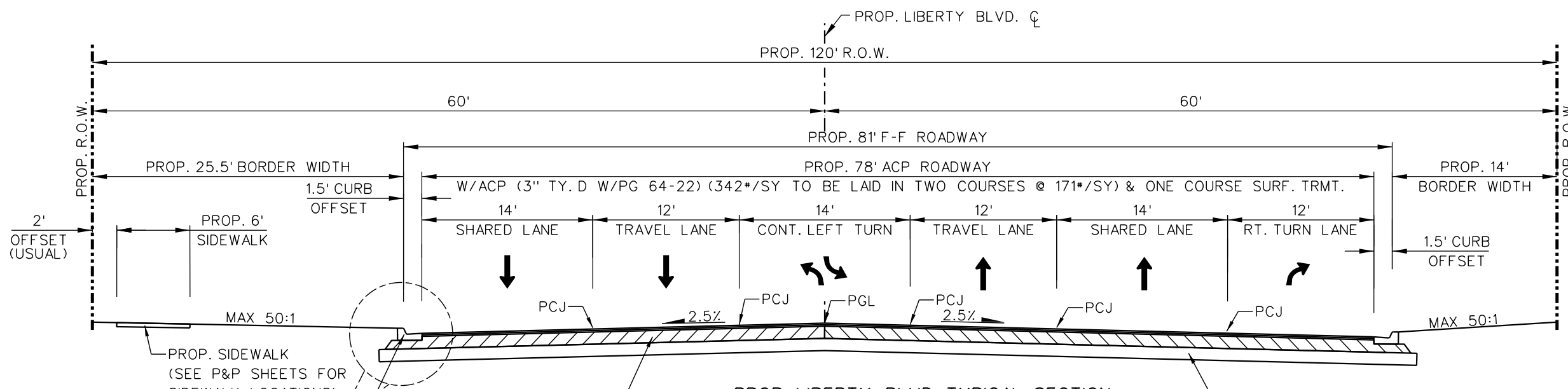
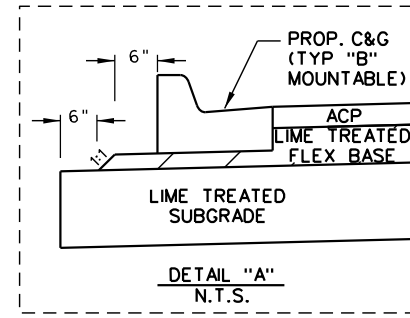
A STATION IS EQUIVALENT TO 100 FT.

LIMITS OF BARRIER  
 STA. 100+00.00 TO STA. 121+50.00



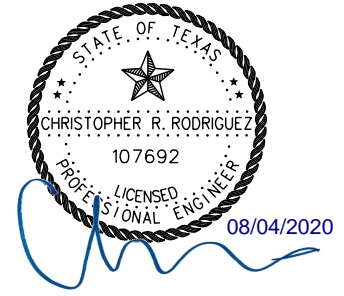
**PROP. LIBERTY BLVD. TYPICAL SECTION**

- STA. 11+60.00 TO STA. 20+37.00
- STA. 20+37.00 TO STA. 21+38.00 (TRANSITION 69' F-F TO 81' F-F RDWY)
- STA. 32+10.00 TO STA. 40+96.66
- STA. 40+96.66 TO STA. 41+31.66 (PROP. BRIDGE LAYOUT)
- STA. 41+31.66 TO STA. 44+61.00
- STA. 44+61.00 TO STA. 48+61.00 (TRANSITION 69' F-F TO 96' F-F RDWY)
- STA. 68+73.00 TO STA. 136+12.00
- STA. 136+12.00 TO STA. 137+92.72 (TRANSITION 69' F-F TO 44' F-F RDWY)



**PROP. LIBERTY BLVD. TYPICAL SECTION**

- STA. 21+38.00 TO STA. 23+66.00
- STA. 28+76.00 TO STA. 31+10.00
- STA. 31+10.00 TO STA. 32+10.00 (TRANSITION 81' F-F TO 69' F-F RDWY)



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**LIBERTY BLVD  
 PROPOSED TYPICAL SECTIONS**

NTS SHEET 1 OF 3

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		9
DW:				
CK DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	SECTION NO.:
TR:	PHR	HIDALGO	0921	02
CK TR:				JOB NO.:
				194
				HIGHWAY NO.:
				LIBERTY

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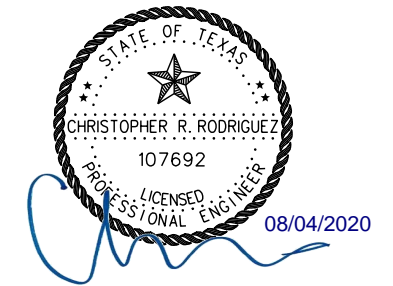
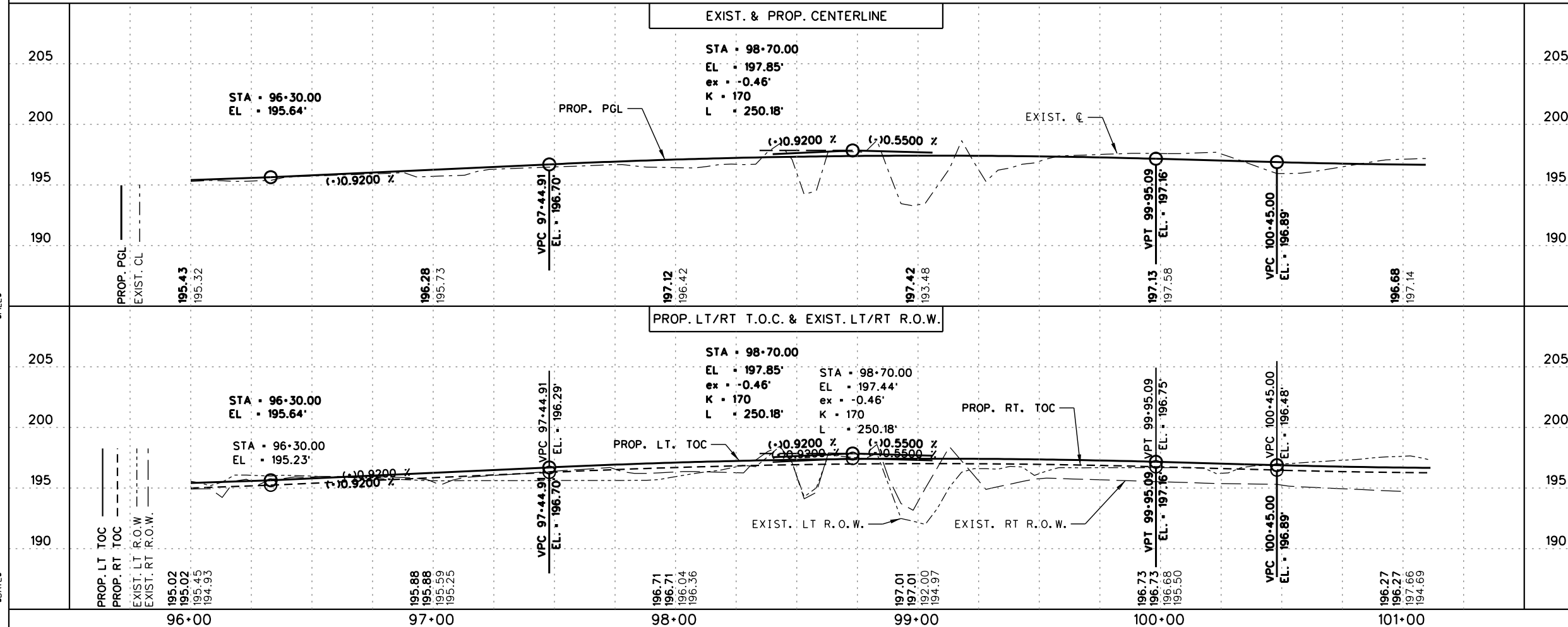
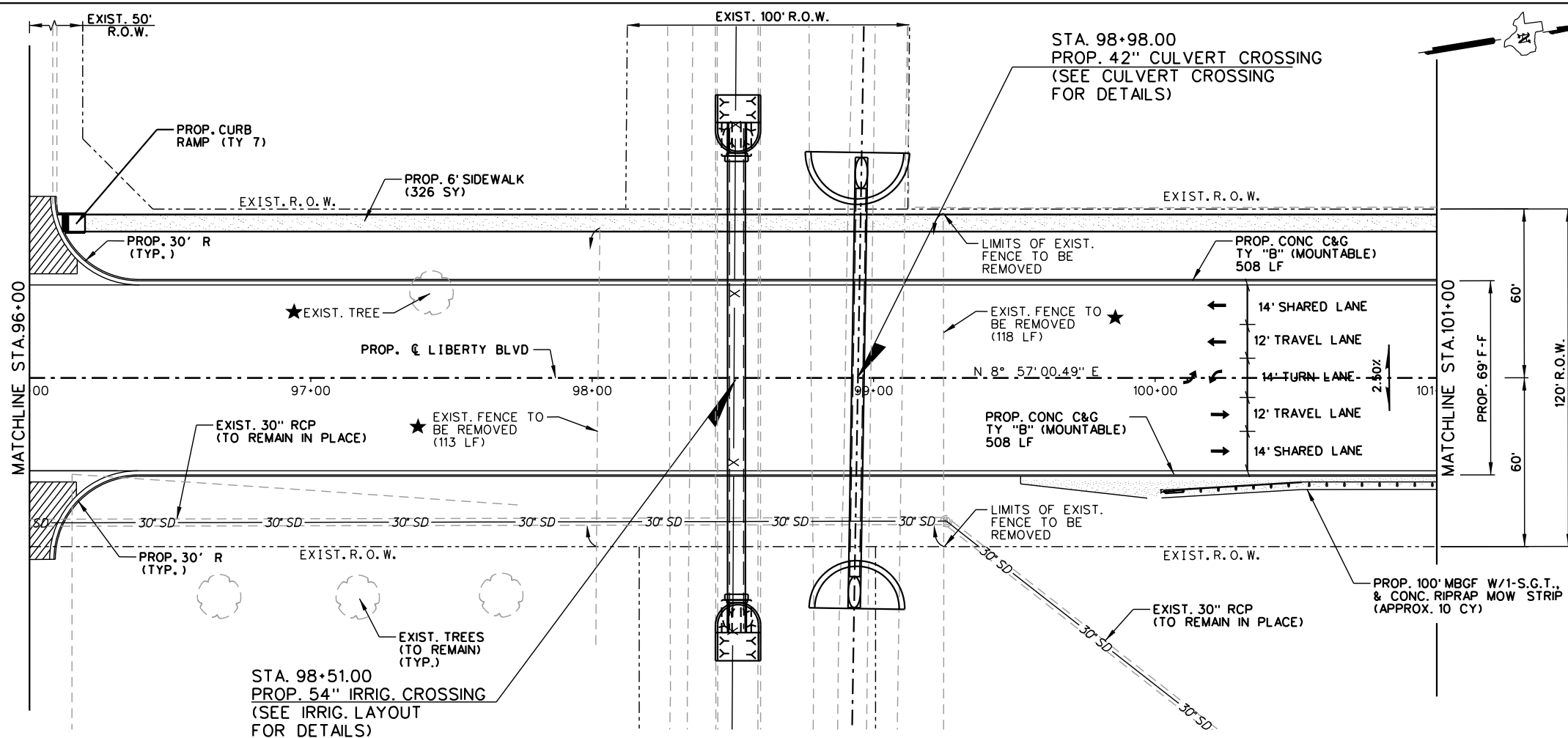
SHEET SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
529	CONC CURB & GUTTER (TY-B) (MOUNTABLE)	LF	1016
531	CONCRETE SIDEWALKS	SY	326
531	CURB RAMPS (TY 7)	EA	1
432	RIPRAP (MOW STRIP)(4")	CY	10
540	METAL BEAM GUARD FENCE	LF	100
544	GUARDRAIL END TRTMNT (INSTALL)	EA	1

LEGEND:

- PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/TURNOUT TABLE FOR QUANTITIES & PIPE QUANTITIES)
- PROPOSED PLANNING (0-1 1/2")
- PROPOSED WIDENING
- PROPOSED OVERLAY
- EXIST ROAD TO BE REMOVED (ITEM 110)
- DIRECTION OF TRAFFIC
- 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"
- DITCH

- NOTES:
- SEE ALIGNMENT DATA SHEET FOR PROP. & EXIST. CENTERLINE DATA.
  - SEE SURVEY DATA SHEETS FOR BM STATIONS, OFFSET, ELEV, ETC.
  - FOR DRAINAGE & UTILITIES INFORMATION SEE U&D'S SHEETS



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 Environmental  
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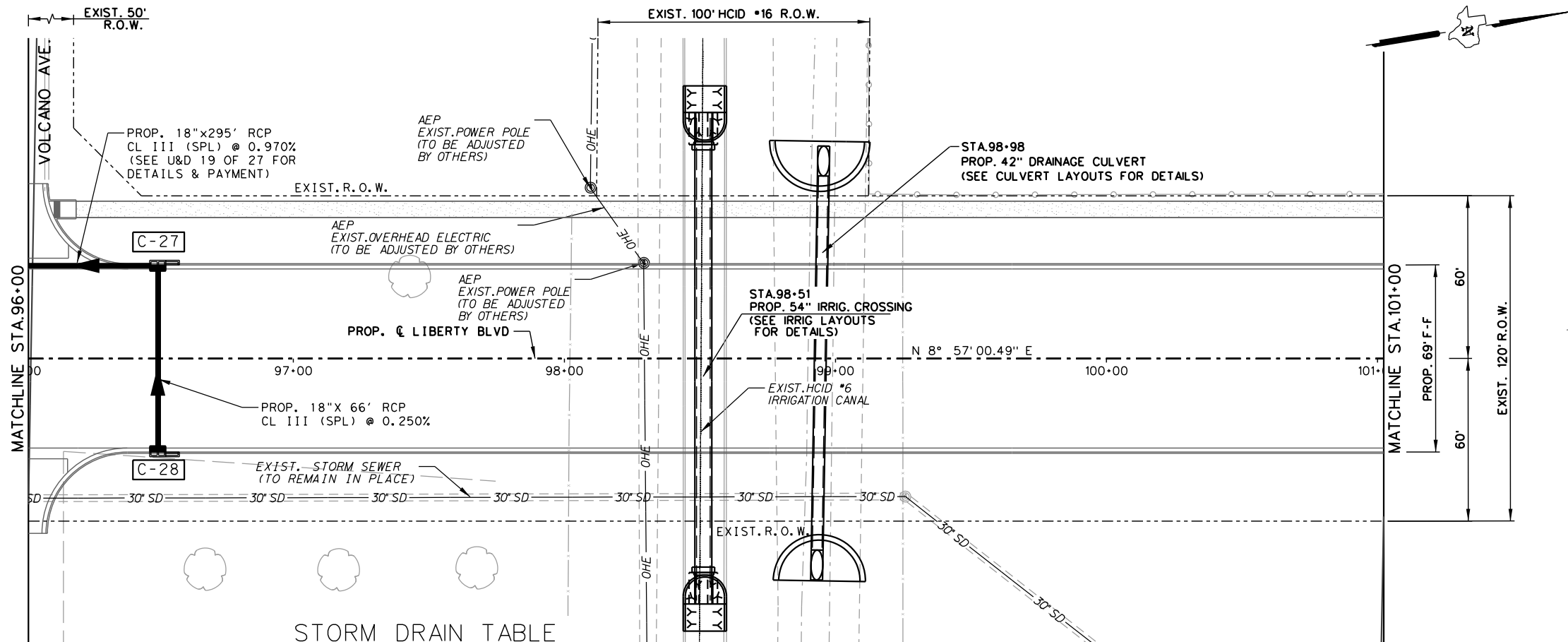
900 S. Stewart Rd., Ste. 10  
 Mission, TX, 78572  
 Phone : (956) 585-1909  
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LIBERTY BLVD  
 PLAN AND PROFILE  
 STA. 96+00 TO STA. 101+00

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

SHEET 19 OF 28

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		91
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCT EXCAVATION (NON-PAY)	CY	50
400	STRUCT EXCAVATION (SPL)	CY	-
400	SAND BACKFILL	CY	21
400	CUT & RESTORE	SY	-
402	TRENCH EXCAVATION PROT.	LF	66
464	18" RCP SEWER (CL III)(SPL)	LF	66

SEE STORM DRAINAGE TABLE FOR PROPOSED DRAINAGE INLET STRUCTURE INFORMATION

- LEGEND**
- ▣ SEE P&P SHEETS FOR DETAILS
  - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
  - DIRECTION OF PROPOSED DITCH
  - ▨ LIMITS OF PROP. CUT & RESTORE (ITEM 400)
  - ⊕ NON-PAY, SUBSIDIARY TO PERTINENT ITEMS

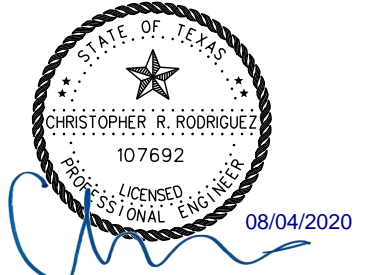
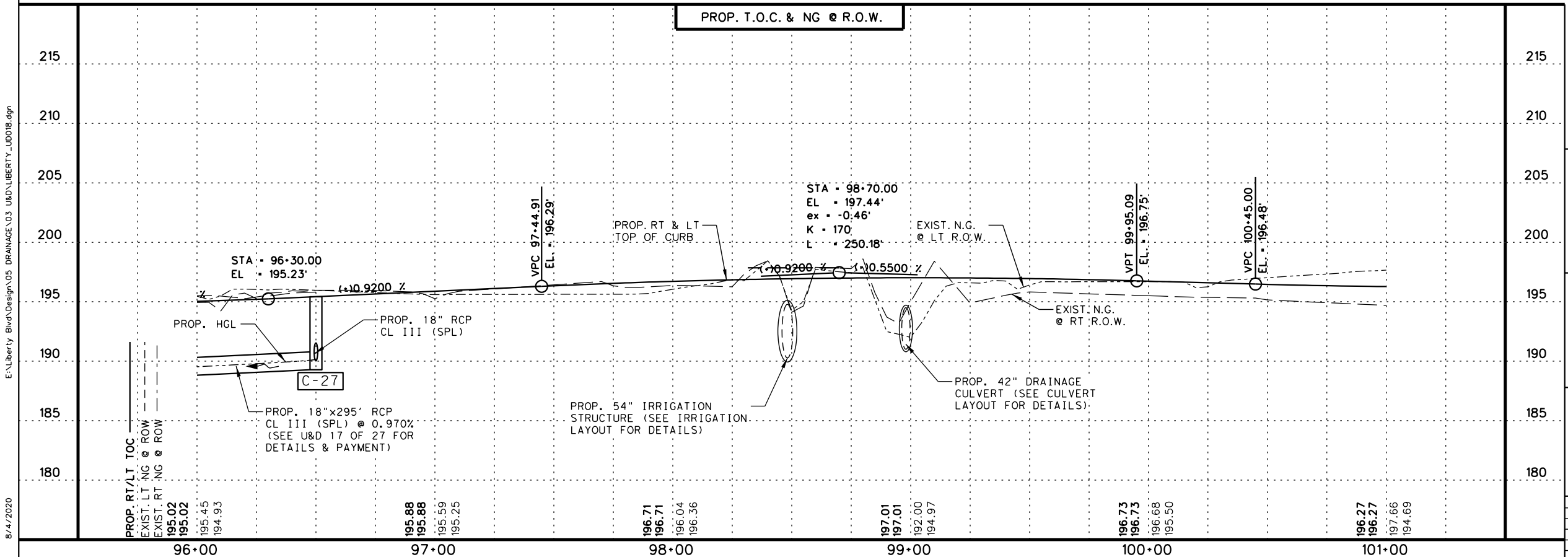
**NOTES:**  
 SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.  
 ALL RCP SHALL BE CL III(SPL) UNLESS OTHERWISE NOTED.  
 SEE HYD. DATA SHEETS FOR HYDRAULIC GRADE LINE (H.G.L.) ELEVATIONS  
 THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

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)
C-27	PCU10R-3x5	96+50.00-34.50	195.42	189.30		189.30	190.03	
C-28	PCU10L-3x5	96+50.00-34.50	195.42	190.20				190.20

**UTILITIES LEGEND**

AEP	AMERICAN ELECTRIC POWER
AT&T	AMERICAN TELEPHONE & TELEGRAPH
TGS	TEXAS GAS SERVICE
HILCORP	HILCORP ENERGY COMPANY
ENTERPRISE	ENTERPRISE PRODUCTS
UNITED	UNITED IRRIGATION DISTRICT
HCID#6	HIDALGO COUNTY IRRIGATION DISTRICT No 6



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**LIBERTY BLVD  
 UTILITY AND DRAINAGE  
 STA. 96+00 TO STA. 101+00**

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

SHEET 18 OF 27

DN:	FED. NO. / DIV. NO.	STATE	PROJECT NO.	SHEET NO.
CK DN:	6	TEXAS		161
CK DW:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
TR:	PHR	HIDALGO	0921	02
CK TR:				JOB NO. / HIGHWAY NO.
				194 / LIBERTY

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8/4/2020

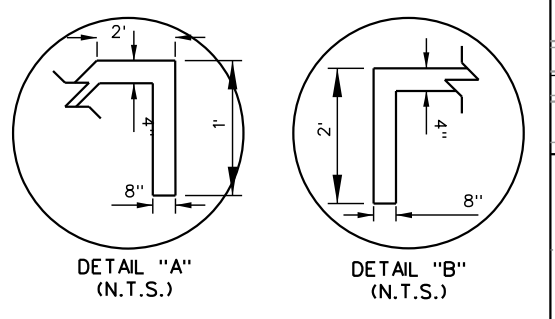
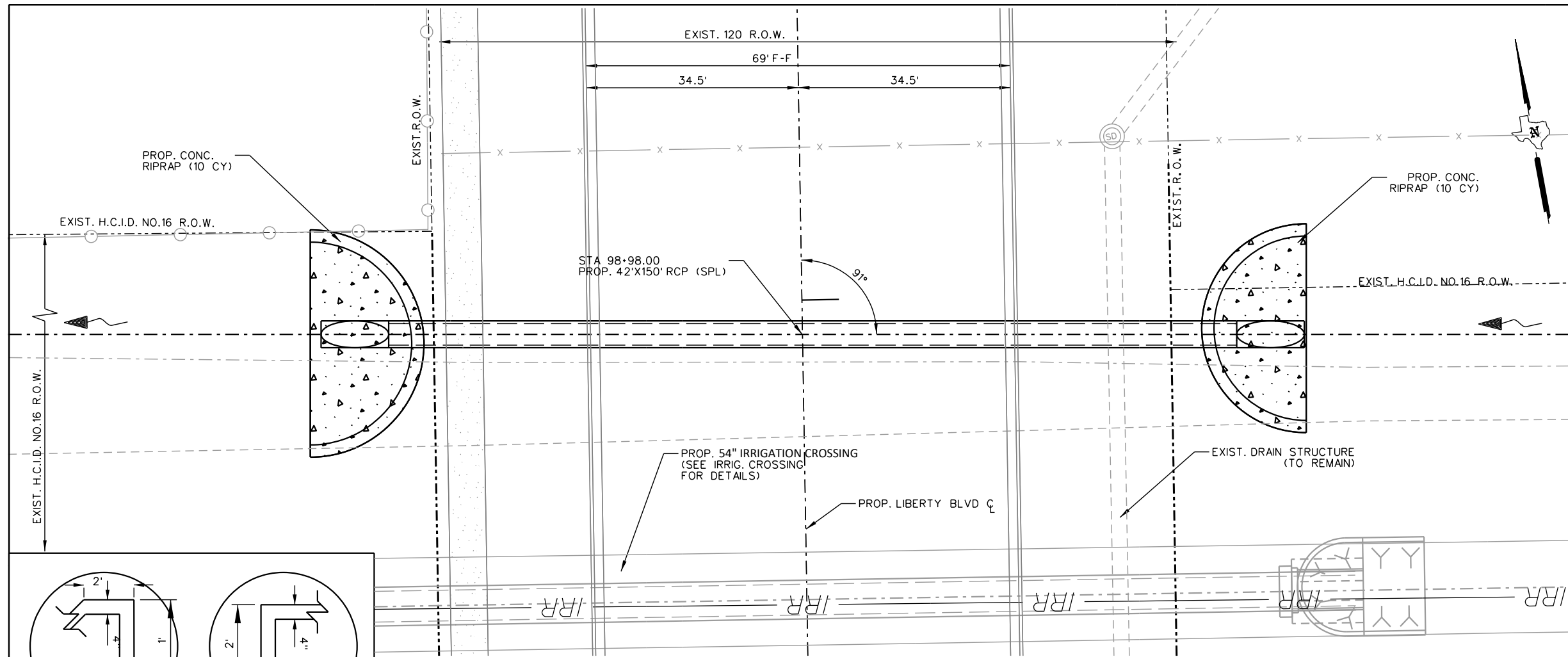
SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
132	EMBANKMENT (FINAL)(DC)(TY C)	CY	111
400	STRUCT. EXCAVATION (NON-PAY)	-	-
400	STRUCT. EXCAVATION (SPL)	CY	28
400	SAND BACKFILL	CY	77
432	RIPRAP (CONC.) (4")	CY	20
464	RC PIPE (CL III) (42 IN)	LF	140

\* FOR CONTRACTORS INFORMATION ONLY

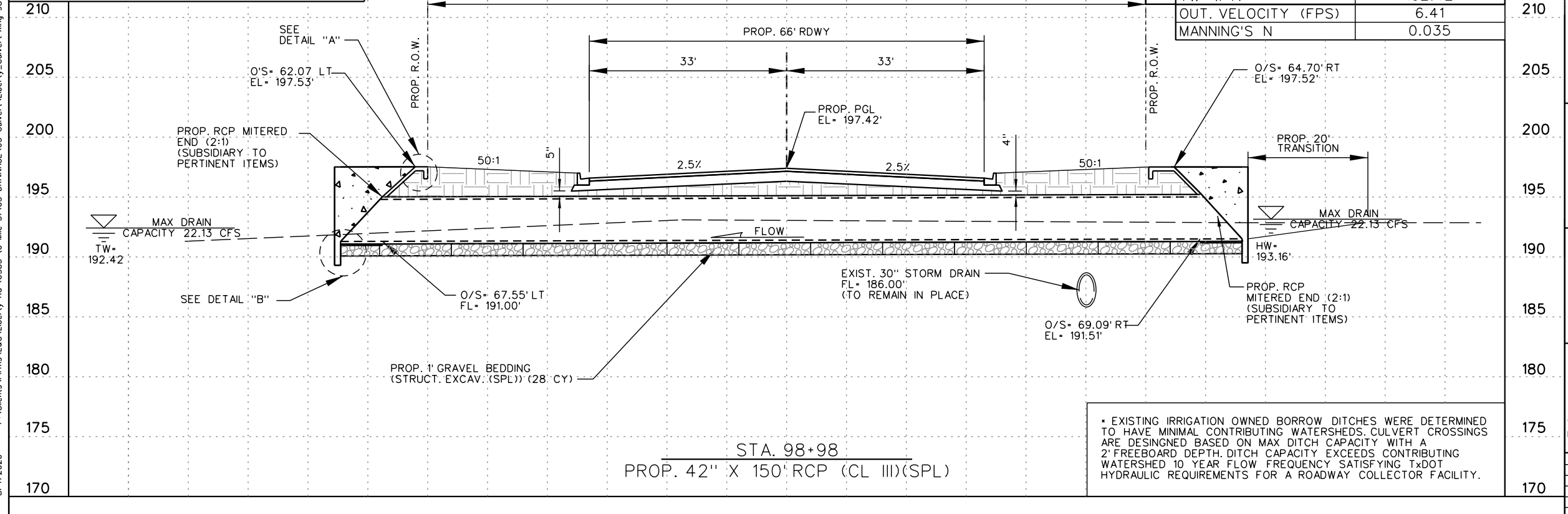
**LEGEND**

- SEE P&P SHEETS FOR DETAILS
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
- ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ⊙ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ▨ PROPOSED DRIVEWAY OR TURNOUT (SEE DRIVEWAY/ TURNOUT TABLE FOR QUANTITIES AND DETAILS)

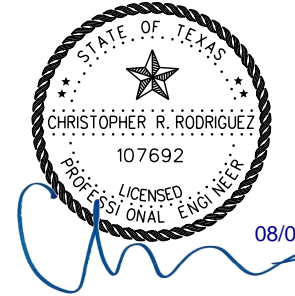
- NOTE:
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  - PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS WHEN WORKING OUTSIDE THE ROW. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
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  - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
  - SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.



CULVERT HYDRAULICS		
	MAXIMUM CAPACITY	
FLOW (CFS)	22.13	215
HW (FT)	193.16	
TW (FT)	192.42	210
OUT. VELOCITY (FPS)	6.41	
MANNING'S N	0.035	



\* EXISTING IRRIGATION OWNED BORROW DITCHES WERE DETERMINED TO HAVE MINIMAL CONTRIBUTING WATERSHEDS. CULVERT CROSSINGS ARE DESIGNED BASED ON MAX DITCH CAPACITY EXCEEDS CONTRIBUTING WATERSHED 10 YEAR FLOW FREQUENCY SATISFYING TxDOT HYDRAULIC REQUIREMENTS FOR A ROADWAY COLLECTOR FACILITY.



**L & G Engineering**  
Highway / Civil  
Structural / Bridge  
Environmental  
Firm No. : F-4105

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

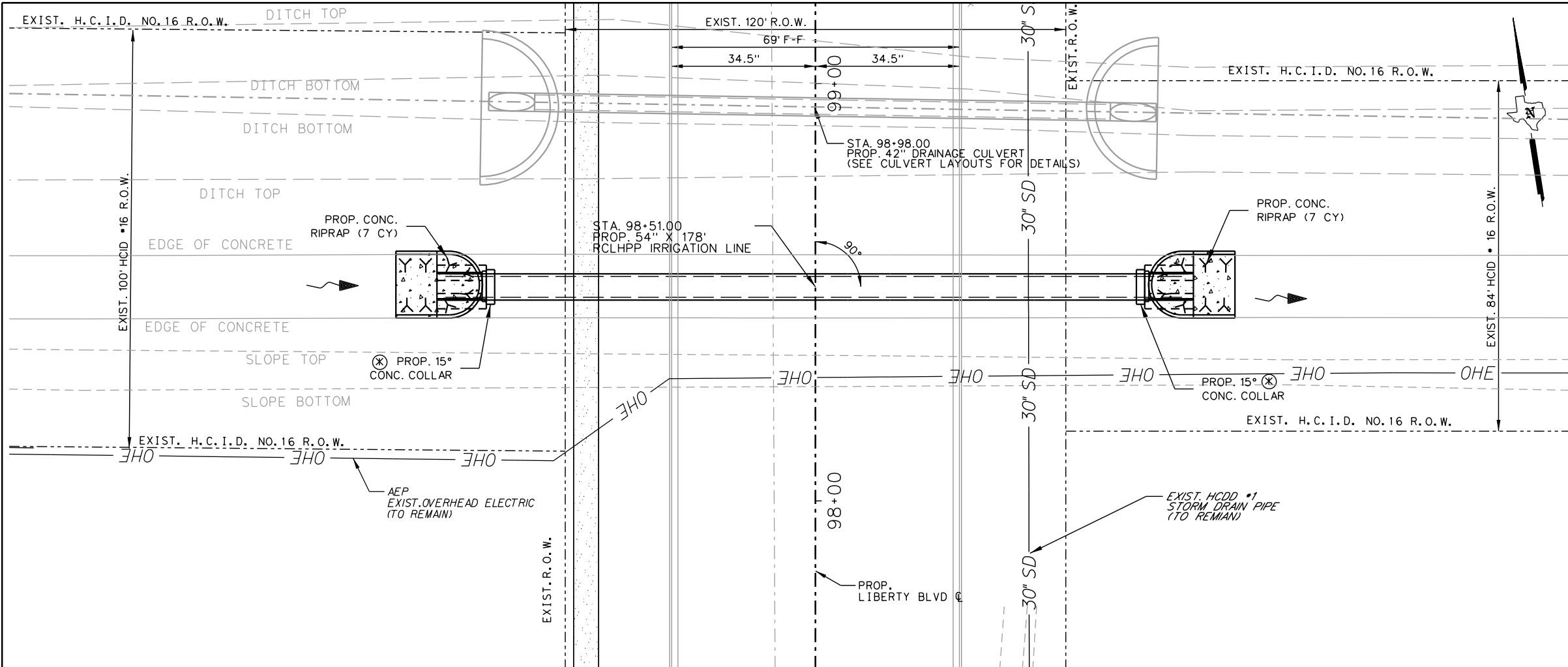
**LIBERTY BLVD  
CULVERT CROSSING  
STA 98+98**

SCALE:  
HOR: 1" = 20'  
VER: 1" = 10'

SHEET 2 OF 2

DN:	FED. NO. 6	STATE TEXAS	PROJECT NO. 0921	SHEET NO. 175
CK DN:				
DW:				
CK DW:	STATE DIST. NO. PHR	COUNTY HIDALGO	CONTROL NO. 02	SECTION NO. 02
TR:				JOB NO. 194
CK TR:				HIGHWAY NO. LIBERTY

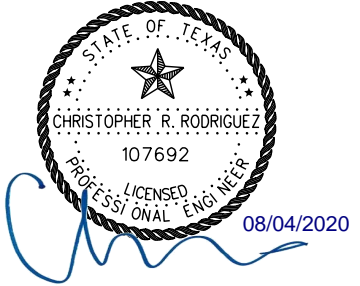
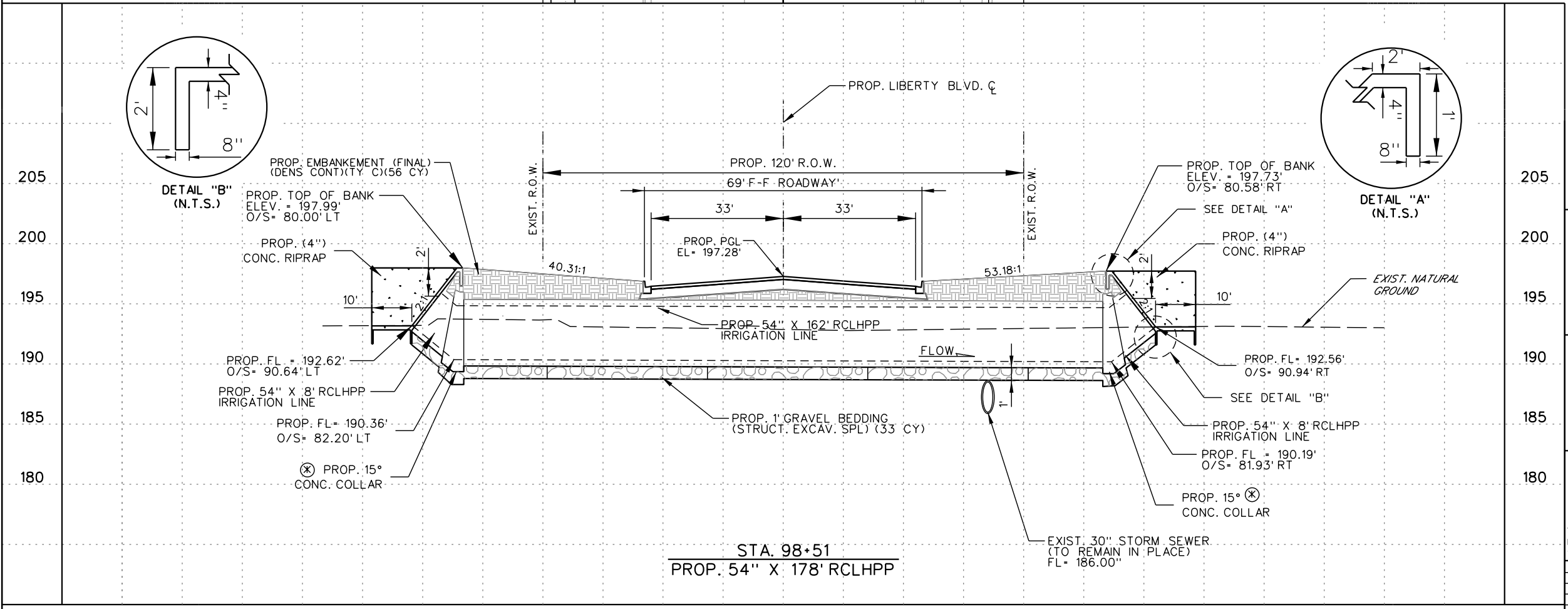
P:\Clients\Firms\L&G\Liberty Rd US83 to Mile 3\1\05 DRAINAGE\05 Culvert\Liberty\_Culvert\_Xing 98+98.dgn  
8/4/2020



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
104	REMOVING CONC. (RIPRAP)	SY	490
132	EMBANKMENT (FINAL)(DC)(TY C)	CY	56
400	STRUCT. EXCAVATION (NON-PAY)	CY	809
400	STRUCT. EXCAVATION (SPL)	CY	33
400	SAND BACKFILL	CY	275
402	TRENCH EXCAV. PROTECTION	LF	178
4.32	RIPRAP (CONC.) (4")	CY	14
4024	RCLHPP CLIII (54")	LF	178

- LEGEND**
- SEE P&P SHEETS FOR DETAILS
  - ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
  - ⊕ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
  - ⊛ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
  - ▨ LIMITS OF PROP. CUT & RESTORE (ITEM 400)

- NOTE:**
- THE CONTRACTOR WILL COORDINATE WITH HIDALGO COUNTY IRRIG DISTRICT #16. 72 HOURS PRIOR TO ANY WORK DONE ON OR NEAR THE IRRIGATION STRUCTURES.
  - PRIOR TO WORKING OUTSIDE THE ROW THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. CAUTION SHALL BE TAKEN NOT TO DAMAGE EXISTING FENCES, TREES, ETC. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS WHEN WORKING OUTSIDE THE ROW. ANY DAMAGES DONE TO THEIR PROPERTY SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
  - THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
  - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
  - SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.



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**LIBERTY BLVD  
 IRRIGATION LAYOUT  
 STA. 98+51**

SCALE:  
 HOR: 1" = 30'  
 VER: 1" = 10'

SHEET 1 OF 1

DN:	FED. NO.:	STATE:	PROJECT NO.:	SHEET NO.:
CK DN:	6	TEXAS		176
DW:	STATE DIST. NO.:	COUNTY:	CONTROL NO.:	JOB NO.:
CK DW:	PHR	HIDALGO	0921	02
TR:				194
CK TR:				LIBERTY

P:\Clients\Firms\L&G\Liberty Rd (US83 to Mile 31)\05 DRAINAGE\06 Irrigation\Liberty\_IRRIG\_XING.dgn  
 8/4/2020