

**ECONOMIC DEVELOPMENT REFUNDING AGREEMENT
BETWEEN WILLIAMSON COUNTY, TEXAS AND
THE HUTTO ECONOMIC DEVELOPMENT CORPORATION, TYPE B FOR
FM 3349 AT US 79--HUTTO MEGASITE RIGHT-TURN LANE**

This Economic Development Refunding Agreement ("Agreement") dated April 10, 2023 ("Effective Date") is hereby made by and between **Williamson County, Texas** a Texas political subdivision of the State of Texas (the "County"), and the **Hutto Economic Development Corporation Type B**, a Texas nonprofit corporation established pursuant to the Development Corporation Act, as codified in the Texas Local Government Code, as amended, and pursuant to the Texas Non-Profit Corporation Act, as codified in the Texas Business Organizations Code, as amended (the "HEDC"). The County and the HEDC may be referred to individually as "Party" and collectively as "Parties" for the purposes of this Agreement.

RECITALS

WHEREAS, the Board of Directors (the "Board") of the HEDC finds Section 501.103 of the Texas Local Government Code defines an authorized project for an economic development corporation to include "expenditures found by the board of directors to be required or suitable for infrastructure necessary to promote or develop new or expanded business enterprises limited to: (1) streets and roads, rail spurs, water and sewer utilities, electric utilities, or gas utilities, drainage, site improvements, and related improvements; (2) telecommunications and Internet improvements; or (3) beach remediation along the Gulf of Mexico;" and

WHEREAS, the County seeks acquire, develop, and improve transportation infrastructure located within the City of Hutto and the County in order to grow the local, regional and state economy; and

WHEREAS, the County specifically desires to improve transportation infrastructure with the design and construction of a right turn lane for FM 3349 at US 79; and

WHEREAS, on or around January 26, 2023, the Board of the HEDC adopted Resolution No. R-2023-012, approving a funding agreement between the City of Hutto and the HEDC to construct a spine road at the Megasite (the "Megasite Spine Road Funding Agreement"); and

WHEREAS, on or around February 16, 2023, the City Council of the City of Hutto adopted Resolution No. R-2023-037, approving the Megasite Spine Road Funding Agreement; and

WHEREAS, on or around February 16, 2023, the City Council of the City of Hutto authorized the issuance of \$12,000,000.00 in General Obligation Bonds, Series 2023, to fund roadway construction for the Spine Road at the Megasite; and

WHEREAS, the Board of Directors of the HEDC finds that the right turn lane onto the Megasite spine road is a component of the Megasite Spine Road Funding Agreement contemplated in the inclusion of the of the construction project; and

WHEREAS, the Board of Directors of the HEDC finds the general obligation bonds issued or to be issued to fund the construction of the Megasite Spine Road, included the funding of the right turn lane; and

WHEREAS, the Parties desire to authorize this Agreement to fund such transportation infrastructure; and

WHEREAS, the Board of the HEDC finds and the Parties agree the expenditures of funds provided and described in the Agreement are required and suitable to fund such transportation infrastructure; and

WHEREAS, the Board of the HEDC finds and the Parties agree such infrastructure is necessary to promote or develop new and expanded business; and

WHEREAS, the Board of the HEDC finds the expenditure of up to \$600,000.00 is required and suitable to fund infrastructure necessary to develop street and related infrastructure improvements, enabling the improvement of transportation infrastructure in the City, thereby promoting and developing new and expanded business enterprises opportunities, pursuant to Texas Local Government Code Section 501.103; and

NOW THEREFORE, in consideration of the foregoing and the mutual agreements, covenants, and payments authorized herein and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and as authorized by the Laws of the State of Texas, the Parties agree as follows:

ARTICLE 1

Recitals/Definitions

1.01 Recitals. The recitals referenced in this Agreement are incorporated herein for all purposes.

1.02 Definitions. As used in this Agreement, the following words and phrases shall have the meanings indicated:

“HEDC Grant” means the grant of funds to the County from the HEDC in accordance with this Agreement.

“Project” means the facilitation of the design and construction of a right turn lane onto FM 3349 at the approximate location shown on Exhibit “A” attached hereto, and the relocation of two existing easements (drainage easement held by Williamson County and a water easement held by Jonah SUD), if applicable.

ARTICLE 2

Term

The term of this Agreement ("Term") will commence on the Effective Date and terminate after the HEDC provides the HEDC Grant to the County, unless sooner terminated as provided herein.

ARTICLE 3

Grant

3.01 HEDC Grant. The current estimate for the Project is Six Hundred Thousand Dollars (\$600,000). The County shall invoice the HEDC monthly for costs incurred for the Project with proof sufficient for the HEDC Board to verify the validity and necessity of such expenses. Upon approval by the HEDC Board of such proof, HEDC shall issue a payment for such expenses within 30 days of receipt of invoice. The HEDC's obligation pursuant to this HEDC Grant is limited to the actual incurred and HEDC Board-approved costs of up to \$600,000.00.

3.02 Debt. Under no circumstances shall the obligations to the HEDC hereunder be deemed to create any debt within the meaning of any constitutional or statutory provision.

3.03 Current Revenue. The HEDC Grant payments will be paid solely from lawfully available funds that have been appropriated by the HEDC, as approved by the City Council of the City of Hutto.

3.04 Obligations of HEDC. The obligation of HEDC to provide the HEDC Grant is conditioned upon use of the funds in accordance with this Agreement.

3.05 ROW Acquisition. The HEDC and the County agree that the right-of-way for the Project will be dedicated to the County, free and clear of any liens.

ARTICLE 4

County Obligations

4.01 Project Design. The County shall be responsible for all costs associated with the preliminary and final design, construction management, utility coordination, environmental permitting and all other costs related to the design and permitting of the Project.

4.02 Construction Plans. The County shall submit to the HEDC, prior to contract award, all plans and specifications related to the Project for the Parties' mutual review and approval. Any changes or modifications to the plans will be submitted to the HEDC for review and approval prior to commencement of construction. The plans will meet TxDOT requirements for turn lanes.

4.03 Inspection. The HEDC may inspect all aspects of the Project during construction. Upon receipt of notification from the HEDC that the HEDC inspectors have determined that the construction is not in accordance with the approved Project plans, the County will identify the deficiency and adopt a corrective plan of construction in accordance with this Agreement.

4.04 Easement Relocation. The Parties recognize that there are two existing easements (drainage easement held by Williamson County and a water easement held by Jonah SUD) that may need to be relocated because of the Project. The County will be responsible for negotiation, design, construction and the preparation of all related documents and new surveys for the relocation of such easements.

ARTICLE 5 Miscellaneous

5.01 Amendment. This Agreement may be amended only by written amendment signed by both Parties.

5.02 Venue. All payments made pursuant to this Agreement and other obligations performed under this Agreement shall be made or performed in Williamson County, Texas. Venue for any action concerning this Agreement shall lie in a state court of competent jurisdiction in Williamson County, Texas. This Agreement shall be governed by and construed in accordance with the laws of the State of Texas without giving effect to any conflicts of law rule or principle that might result in the application of laws of another jurisdiction.

5.03 Legal Construction. In the event any one or more of the provisions in this Agreement shall be held to be invalid, illegal, or unenforceable, such invalidity, illegality or unenforceability shall not affect the other provisions of this Agreement.

5.04 Notices. All notices given with respect to this Agreement shall be in writing and shall be deemed to have been properly given for all purposes (i) if sent by a nationally recognized overnight carrier for next business day delivery, on the first business day following deposit of such notice with such carrier unless such carrier confirms such notice was not delivered, then on the day such carrier actually delivers such notice; or (ii) if personally delivered, on the actual date of delivery; or (iii) if sent by certified U.S. Mail, return receipt requested postage prepaid, on the fifth business day following the date of mailing; or (iv) if sent by facsimile, then on the actual date of delivery (as evidenced by a facsimile confirmation) provided that a copy of the facsimile and confirmation is also sent by regular U.S. Mail, addressed as follows:

For County:

Bill Gravell
Williamson County Judge
710 S. Main St., Suite 101
Georgetown, TX 78626

For HEDC:

Attention Executive Director
Hutto Economic Development Corporation Type B
500 W. Live Oak St.
Hutto, TX 78634

5.05 Assignment. This Agreement is binding upon the Parties and their successors and assigns. This Agreement may not be assigned by either Party without the specific prior written consent of the other Party, which consent may be withheld at the sole discretion of the non-assigning Party.

5.06 Parties in Interest. Nothing in this Agreement shall entitle any party other than those stated herein to any claim, cause of action, remedy, or right of any kind.

5.07 Interpretation. Each Party has had the opportunity to be represented by counsel of its choice in negotiating this Agreement. This Agreement shall therefore be deemed to have been negotiated and prepared at the joint request, direction, and construction of the Parties, at arm's length, and will be interpreted in accordance with its terms without favor to any Party.

5.08 No Joint Venture. Nothing contained in this Agreement is intended by the Parties to create a partnership or joint venture between the Parties.

5.09 Survival of Terms. All rights, duties, liabilities, and obligations accrued prior to termination shall survive termination.

5.10 Entire Agreement. This Agreement represents the entire agreement of the Parties with respect to the subject matter hereof.

5.11 Counterparts. This Agreement may be executed in counterparts. Each of the counterparts shall be deemed an original instrument, but all the counterparts shall constitute one and the same instrument.

5.12 Exhibits. All exhibits to this Agreement are incorporated herein by reference for all purposes wherever reference is made to the same.

5.13 Authorization. Each Party represents that it has full capacity and authority to grant all rights and assume all obligations that are granted and assumed in this Agreement.

HUTTO ECONOMIC DEVELOPMENT CORPORATION, TYPE B

By: [Signature]
Don Carlson, Board Chair

ATTEST:

By: [Signature]
Erin Clancy, Board Secretary

The **Hutto City Council** approved this Agreement and authorized its execution by the undersigned on June 15, 2023.

By: [Signature]
James Earp, City Manager

ATTEST:

By: [Signature]
Angela Lewis, City Secretary



WILLIAMSON COUNTY

By: Bill Gravell, Jr., County Judge

ATTEST:

Nancy Rister, County Clerk

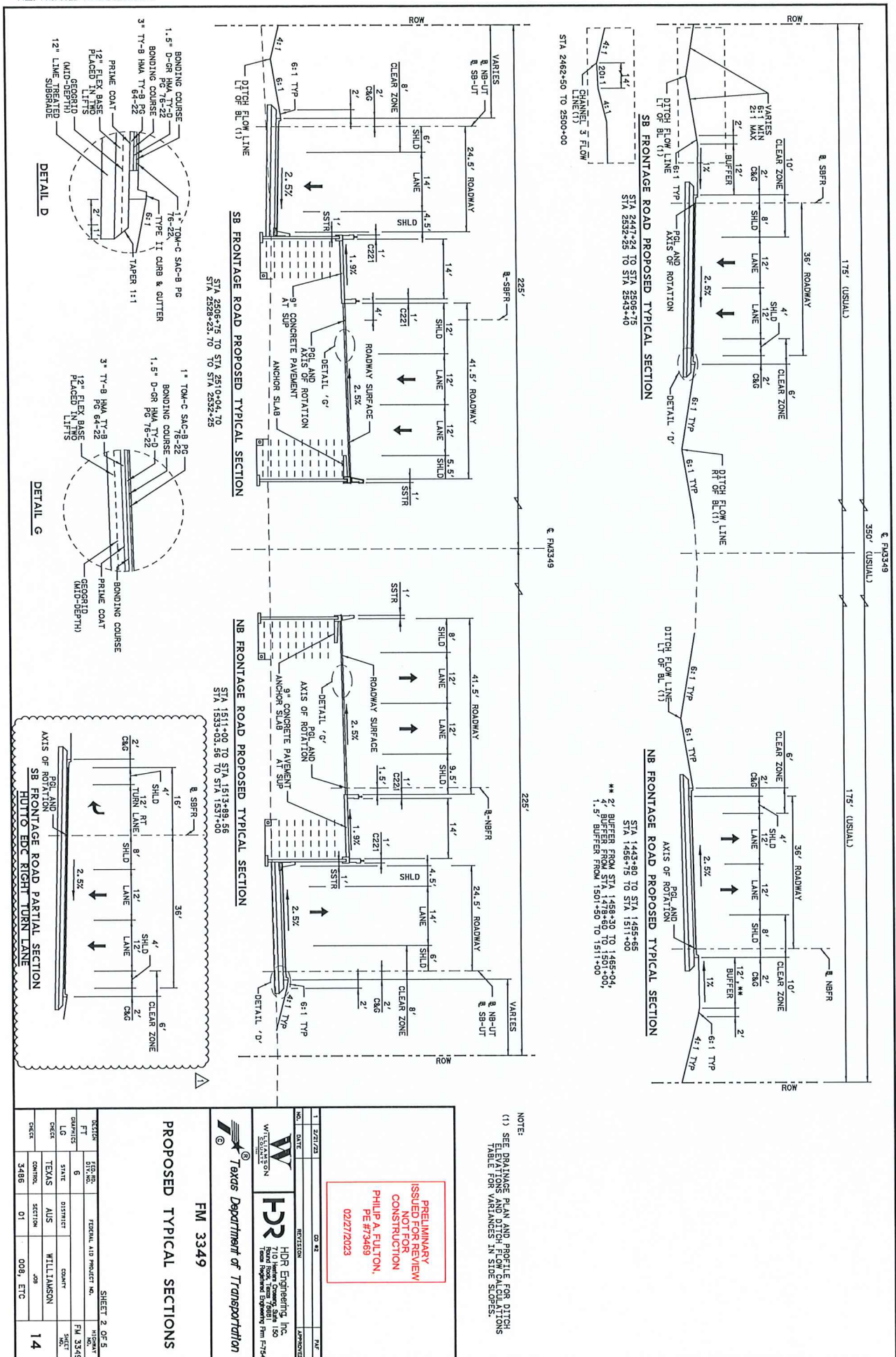
US 79 AND FM 3349 INTERSECTION IMPROVEMENT PROJECT
HUTTO EDC SOUTHBOUND FRONTAGE ROAD RIGHT TURN LANE
TAYLOR, TX

CHANGE ORDER #2 PLANS
02/27/2023



PREPARED BY:
HDR Engineering, Inc.
11111 North Loop West, Suite 1100
Houston, Texas 77067
Texas Registered Engineering Firm F-754

PRELIMINARY
ISSUED FOR REVIEW
NOT FOR
CONSTRUCTION
PHILIP A. FULTON, PE
#73469
02/27/2023



NOTE:
 (1) SEE DRAINAGE PLAN AND PROFILE FOR DITCH
 ELEVATIONS AND DITCH FLOW CALCULATIONS
 TABLE FOR VARIANCES IN SIDE SLOPES.

PRELIMINARY
 ISSUED FOR REVIEW
 NOT FOR
 CONSTRUCTION
 PHILIP A. FULTON,
 PE #73469
 02/27/2023

FM 3349
PROPOSED TYPICAL SECTIONS

Table of Sections:

SECTION	FT	NO.	DATE	REVISION	BY	CHKD	DATE
SECTION	110.00	1	2/27/23				
FT	6						
NO.	6						
DATE	STATE	DISTRICT	COUNTY				
TEXAS	ALIS		WILLAMSON				
SECTION	008	008	008	008	008	008	008
SECTION	01	008	008	008	008	008	008

FM 3349-EARTHWORK QUANTITIES

STATION	ITEM 110 6001 EXCAVATION (ROADWAY)	ITEM 132 6006 PAVEMENT (FINAL DECK COUNT CITY ID)
418+00	0	0
418+50	32	5
419+00	60	8
419+50	76	7
420+00	97	5
420+50	113	10
421+00	110	23
421+50	106	51
422+00	157	94
422+50	189	151
423+00	184	215
423+50	230	264
424+00	298	272
424+50	344	302
425+00	317	529
425+50	258	721
426+00	267	700
426+50	246	772
427+00	178	919
427+50	213	1012
428+00	218	1075
428+50	159	1114
429+00	149	1140
429+50	155	1157
430+00	169	1177
430+50	179	1191
431+00	195	1174
431+50	224	1107
432+00	286	961
432+50	337	828
433+00	392	763
433+50	468	641
434+00	523	538
434+50	605	496
435+00	736	484
435+50	900	314
436+00	1070	298
436+50	1208	286
437+00	1301	221
437+50	1351	184
438+00	1386	225
438+50	1472	219
439+00	1656	146
439+50	1984	124
440+00	1818	123
440+50	1433	152
441+00	1119	236
441+50	1125	236
442+00	1100	276
442+50	1024	356
443+00	929	449
443+50	879	482
444+00	841	518
444+50	828	530
445+00	1353	537
445+50	1244	629
446+00	507	766
446+50	380	899
447+00	300	1049

FM 3349-EARTHWORK QUANTITIES (CONTINUED)

STATION	ITEM 110 6001 EXCAVATION (ROADWAY)	ITEM 132 6006 PAVEMENT (FINAL DECK COUNT CITY ID)
447+50	228	1218
448+00	161	1425
448+50	115	1695
449+00	89	1886
449+50	107	1924
450+00	112	2146
450+50	73	2514
451+00	65	2679
451+50	82	2608
451+73	45	1091
452+00	215	1439
452+50	287	854
453+00	215	453
453+50	663	1771
454+00	714	1903
454+50	707	1264
455+00	873	983
455+50	999	962
456+00	847	740
456+50	904	495
457+00	1002	329
457+50	1101	178
458+00	1159	138
458+50	1267	115
459+00	1416	50
459+50	1546	15
460+00	1680	17
460+50	1783	17
461+00	1619	18
461+50	1816	22
462+00	1655	23
462+50	1582	25
463+00	1023	7
463+50	587	2
464+00	2630	10
464+50	3113	12
465+00	3058	15
465+50	3033	19
466+00	2936	16
466+50	2745	14
467+00	1365	8
467+50	1038	7
468+00	2172	21
468+50	2112	26
469+00	2072	38
469+50	2201	47
470+00	1985	44
470+50	1936	43
471+00	1990	44
471+50	1905	40
472+00	1833	52
472+50	1897	48
473+00	1844	55
473+50	1795	66
474+00	1705	72
474+50	1654	80

FM 3349-EARTHWORK QUANTITIES (CONTINUED)

STATION	ITEM 110 6001 EXCAVATION (ROADWAY)	ITEM 132 6006 PAVEMENT (FINAL DECK COUNT CITY ID)
474+50	1640	88
475+00	1718	80
475+50	1685	81
476+00	1601	96
476+50	1618	105
477+00	1602	114
477+50	1588	132
478+00	1596	189
478+50	1605	243
479+00	1545	239
479+50	1345	231
480+00	1381	209
480+50	1525	176
481+00	1480	156
481+50	1467	139
482+00	1446	127
482+50	1477	145
483+00	1685	124
483+50	1953	89
484+00	2292	61
484+50	2048	85
485+00	1539	109
485+50	1488	106
486+00	1430	102
486+50	1359	102
487+00	1331	98
487+50	1338	98
488+00	1281	103
488+50	1248	105
489+00	1208	104
489+50	1196	102
490+00	1182	107
490+50	1162	120
491+00	1126	132
492+00	1082	147
492+50	1042	165
493+00	1010	184
493+50	979	201
494+00	946	218
494+50	899	249
495+00	862	264
495+50	791	314
496+00	762	337
496+50	741	351
497+00	709	356
497+50	661	358
498+00	619	366
498+50	588	389
499+00	557	420
499+50	435	463
500+00	317	476
500+50	325	460
501+00	365	453
501+50	402	456
502+00	435	464
502+50	478	453
503+00	532	428
503+50	593	391

FM 3349-EARTHWORK QUANTITIES (CONTINUED)

STATION	ITEM 110 6001 EXCAVATION (ROADWAY)	ITEM 132 6006 PAVEMENT (FINAL DECK COUNT CITY ID)
504+00	664	364
504+50	723	341
505+00	750	323
505+50	792	322
506+00	861	343
506+50	1175	383
507+00	1201	479
507+50	949	621
508+00	927	798
508+50	856	1039
509+00	755	1344
509+50	651	1603
510+00	327	612
510+50	250	355
511+00	547	1089
511+50	671	970
512+00	818	735
512+50	951	520
513+00	1059	315
513+50	993	207
514+00	843	278
514+50	631	336
515+00	385	179
515+50	304	22
516+00	314	0
516+50	526	0
517+00	557	0
517+50	331	0
518+00	207	0
518+50	73	0
519+00	0	0
519+50	0	0
520+00	0	0
520+50	525	78
521+00	821	188
521+50	623	166
522+00	565	125
522+50	313	191
523+00	1062	132
523+50	1713	70
524+00	1388	104
524+50	1220	109
525+00	1042	165
525+50	902	222
526+00	834	192
526+50	877	142
527+00	941	119
527+50	931	77
528+00	690	48
528+50	182	76
529+00	365	401
529+50	389	547
530+00	739	836
530+50	733	592
531+00	861	397
531+50	1185	219

FM 3349-EARTHWORK QUANTITIES (CONTINUED)

STATION	ITEM 110 6001 EXCAVATION (ROADWAY)	ITEM 132 6006 PAVEMENT (FINAL DECK COUNT CITY ID)
531+50	1467	141
532+00	1705	134
532+50	1785	88
533+00	1723	68
533+50	2065	32
534+00	2278	49
534+50	2013	16
535+00	1875	62
535+50	1820	64
536+00	1846	54
536+50	1765	39
537+00	1605	26
537+50	1671	20
538+00	1174	29
538+50	1625	39
539+00	1516	49
539+50	1562	48
540+00	1748	47
540+50	1791	58
541+00	1639	69
541+50	1354	107
542+00	1134	115
542+50	1127	363
543+00	1150	724
543+50	1020	426
544+00	869	52
544+50	803	77
545+00	751	89
545+50	761	80
546+00	769	68
546+50	772	77
547+00	744	71
547+50	728	59

SUMMARY OF QUANTITIES

1 2/27/23		50 42		PAGE	
DATE		REVISION		DATE	
WILLIAMSON		H2R		H2R Engineering, Inc.	
PROJECT		FM 3349		110 Highway Construction Item 100	
SHEET		25		Total Highway Engineering Item FM34	
TxDOT		Texas Department of Transportation			
FEDERAL AID PROJECT NO.		FM 3349		SHEET 7 OF 17	
COUNTY		WILLIAMSON		COUNTY	
SECTION		008, ETC		SECTION	
JOB				JOB	
CHECK		3485		25	

ITEM	DESCRIPTION	QTY	EXT	DELTA	UNIT
110 6001	EXCAVATION (ROUND)	954.00	CT		CT
112 6001	EMPALEMENT (FINAL) (ORG COMP) (TY C1)	454.00	CT		CT
118 6003	FURNISHING AND PLACING (GPSOLL) (4")	3,530.00	SV		SV
164 6005	DRILL SEEDING (PROM) (RURAL) (CLAY)	3,530.00	SV		SV
169 6001	SOIL RETENTION BLANKETS (CL 1) (TY A)	3,530.00	SV		SV
198 6008	SOIL RETENTION BLANKETS (CL 2) (TY B)	3,530.00	SV		SV
247 6004	F. BS (EXP IN PLOT) (A OR A (FINAL POST)	2,400.00	CT		CT
260 6011	LIME (TY) (LIME PAST) (TY 2)	2,400.00	CT		CT
260 6003	LIME (HYD. OX OR SO (SULFUR)	480.00	GAU		GAU
110 6001	EXCAVATION (ROUND)	140.00	CT		CT
112 6001	EMPALEMENT (FINAL) (ORG COMP) (TY C1)	140.00	CT		CT
432 6001	RIPRAP (STONE) PROTECTION	15.70	LF		LF
462 6012	CONC BOX (CLAY (6FTX5FT))	280.00	LF		LF
466 6182	MINERAL (PW - 1) (CM+ FT)	2.00	EA		EA
559 6008	CONC CURB & GUTTER (TY 4)	194.00	LF		LF
618 6023	CONOT (PVC) (SCH 40) (2")	1106.00	LF		LF
620 6007	ELEC CONOR (NO 8) BARE	(106.00)	EA		EA
640 6008	ELEC CONOR (NO 8) INSULATED	(272.00)	EA		EA
644 6004	IN SW NO SW SUPPLY (100X15X17)	435.00	EA		EA
666 6101	REIN. PAV MCK TY 11 (NO (4000)	2.00	EA		EA
666 6102	REIN. PAV MCK TY 11 (NO (4000)	2.00	EA		EA
666 6103	REIN. PAV MCK TY 11 (NO (4000)	2.00	EA		EA
666 6303	RE PAV /WET AREA TY 1 (M+ (SLD) (1000L)	435.00	LF		LF
666 6342	RE PAV /WET AREA TY 1 (M+ (SLD) (1000L)	(424.00)	LF		LF
672 6010	REF. PAV MCK TY 11 C-R	37.00	SV		SV
3076 6001	D-GR HMA TY-B PG64-22	159.73	TON		TON
3076 6046	D-GR HMA TY-B PG76-22	159.73	TON		TON
3076 6008	DM-C PG 16-22 SMC-B	396.00	GAU		GAU
3091 6001	BOUNDING COURSE	2,400.00	SV		SV
3091 6002	BOUNDING COURSE	2,400.00	SV		SV

1	DATE	CD #2	FILE
NO.	DATE	REVISION	APPROVED
 Texas Department of Transportation		HDR Engineering Inc. 15000 Highway 100, Suite 1000 Houston, Texas 77060 Phone: (713) 861-8800 Fax: (713) 861-8801	
WILLIAMSON DIVISION			
FM 3349			
SUMMARY OF QUANTITIES CHANGE ORDER #2			
SHEET 1 OF 1			
SECTION	ITEM NO.	ITEMS, AID PROJECT NO.	HIGHWAY NO.
FT	6		FM 3349
QUANTITIES	SYN	DISTRICT	COUNTY
LG	TEXAS	AUS	WILLIAMSON
CHICK	SECTION	208	
CHICK	3486	01	DOB, ETC.
			35B

SUMMARY OF SMALL SIGNS

DATE: 2/27/2023 2:16:02 PM
FILE: 071616

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for inaccuracy or errors resulting from its use.

SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)												BRIDGE MOUNT CLEARANCE (See Note 2)
PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)		EXAL ALUMINUM (TYPE G)		ANCHOR TYPE	MOUNTING DESIGNATION	TY N	
					POST TYPE	POSTS	POST TYPE	POSTS				
30714	31	M3-1 M1-6F	NORTH FM 3349	24X12 24X24	X X	X X	10BWG	1	SA	P		
	32	R1-1	STOP	36X36	X	X	10BWG	1	SA	P	BM	
	33	R1-1	STOP	36X36	X	X	10BWG	1	SA	P	BM	
	34	R1-1	STOP	36X36	X	X	10BWG	1	SA	P	BM	
40714	1	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
	2	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
	3	D21-1TR	CR 132 →	54X12	X	X	10BWG	1	SA	T		
	4	W8-13GT	BRIDGE MAY ICE IN COLD WEATHER	36X36	X	X	10BWG	1	SA	T		
	5	-	SIGN OMITTED									
	6	R2-1	SPEED LIMIT 65	30X36	X	X	10BWG	1	SA	P		
50714	1	W9-2TR	LANE ENDS MERGE RIGHT	36X36	X	X	10BWG	1	SA	T		
	2	W9-2TR	LANE ENDS MERGE RIGHT	36X36	X	X	10BWG	1	SA	T		
60714	1	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
	2	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
70714	1	R2-1	SPEED LIMIT 65	30X36	X	X	10BWG	1	SA	P	BM	
	2	R6-1L	ONE WAY	54X18	X	X	10BWG	1	SA	T		
	3	R6-1L	ONE WAY	54X18	X	X	10BWG	1	SA	P		
		R1-1	STOP	36X36	X	X						
	4	R5-1	DO NOT ENTER	36X36	X	X	10BWG	1	SA	T		
	5	R5-1	DO NOT ENTER	36X36	X	X	10BWG	1	SA	T		
	6	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
	7	R5-1G	WRONG WAY	42X30	X	X	10BWG	1	SA	U		
	8	M3-3 M1-6F	SOUTH FM 3349	24X12 24X24	X X	X X	10BWG	1	SA	P		
	9	R5-1	DO NOT ENTER	36X36	X	X	10BWG	1	SA	T		
	10	R5-1	DO NOT ENTER	36X36	X	X	10BWG	1	SA	T		
	11	R6-1L R1-1	ONE WAY STOP	54X18 36X36	X X	X X	10BWG	1	SA	P	BM	
	12	R6-1L	ONE WAY	54X18	X	X	10BWG	1	SA	T		
	13	R3-7R	RIGHT LANE MUST TURN RIGHT	36X36	X	X	10BWG	1	SA	T		
	14	R3-7R	RIGHT LANE MUST TURN RIGHT	36X36	X	X	10BWG	1	SA	T		

The Standard Highway Sign Design for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/>

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"



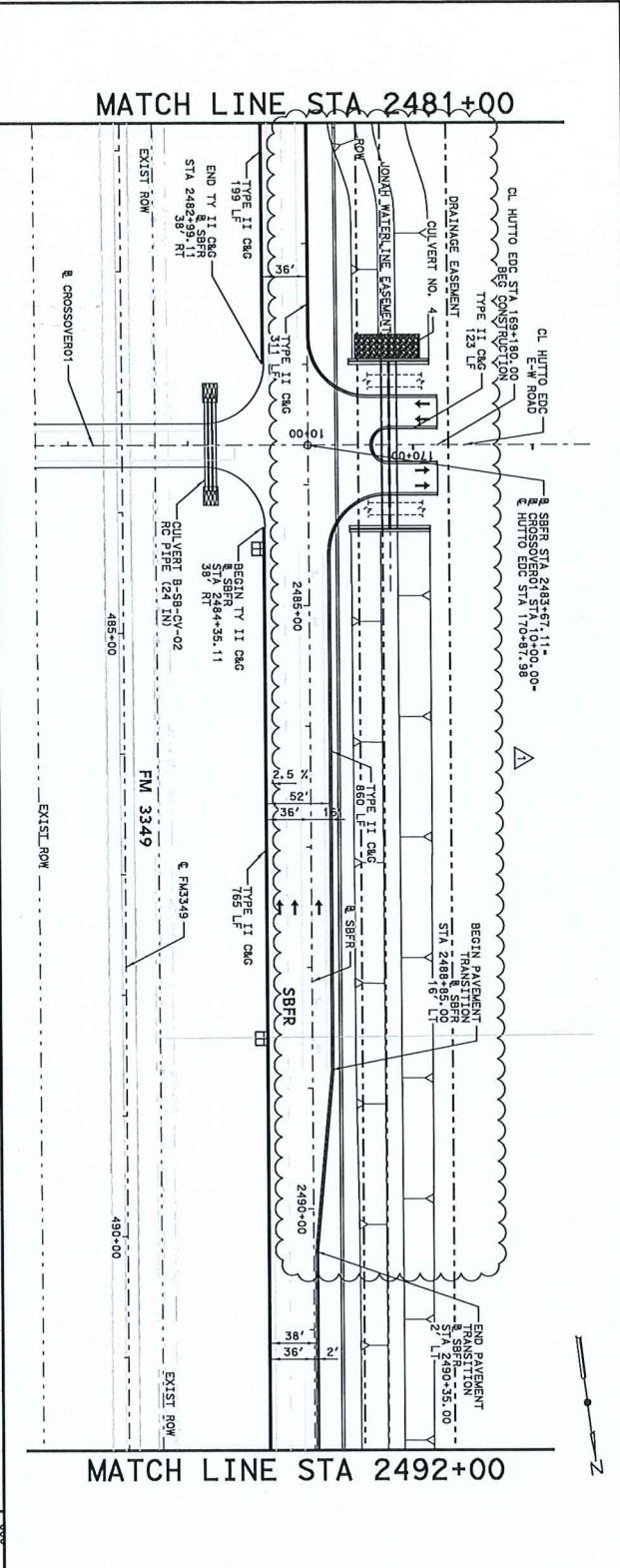
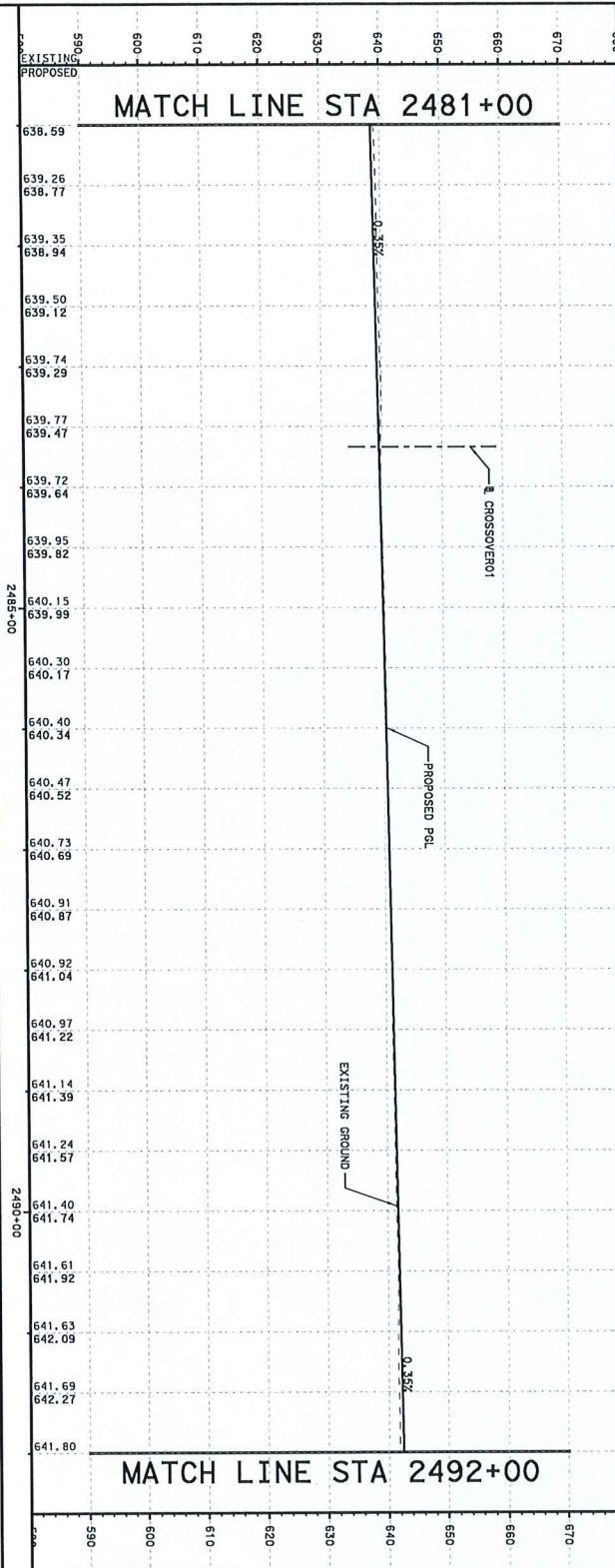
NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid obstructions. The Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (SMCS) Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details (SMO GEN).

NO.	DATE	CD	BY	REVISED	APPROVED
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SUMMARY OF SMALL SIGNS

FILE	DATE	CD	BY	REVISED	APPROVED
1	2/27/23				
2					
3					
4					
5					
6					
7					
8					
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12					
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14					
15					



STA 2481+00 TO STA 2492+00		PLAN AND PROFILE		SBFR		FM 3349		WILLIAMSON		197	
SCALE: 1"=100'		DATE: 2/27/23		DESIGN: 1		CONTRACT: 3485		SECTION: 01		008, ETC.	
PROJECT: SBFR		DATE: 2/27/23		DESIGN: 1		CONTRACT: 3485		SECTION: 01		008, ETC.	
PROJECT: SBFR		DATE: 2/27/23		DESIGN: 1		CONTRACT: 3485		SECTION: 01		008, ETC.	

LEGEND

- PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
- EXISTING ROW
- LEVEL-UP AND OVERLAY
- WIDENING
- PROPOSED EDGE OF PAVEMENT
- PROPOSED RETAINING WALL
- SMOOTH
- TRAVEL LANE

NOTES:

- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE DATA AND ADDITIONAL INFO.
- REFER TO DRAINAGE, BRIDGE AND RETAINING WALL SHEETS FOR APPLICABLE DETAILS.
- DIMENSIONS ARE TO THE LIP OF CUTTER UNLESS NOTED OTHERWISE.
- PROVIDE 10' LENGTH CURB HEIGHT TRANSITION AT THE BEGINNING AND END OF THE TYPE II CURB AND GUTTER. REFER TO STANDARD DETAILS.
- CONTRACTOR TO VERIFY GATE LOCATION PRIOR TO PLACEMENT

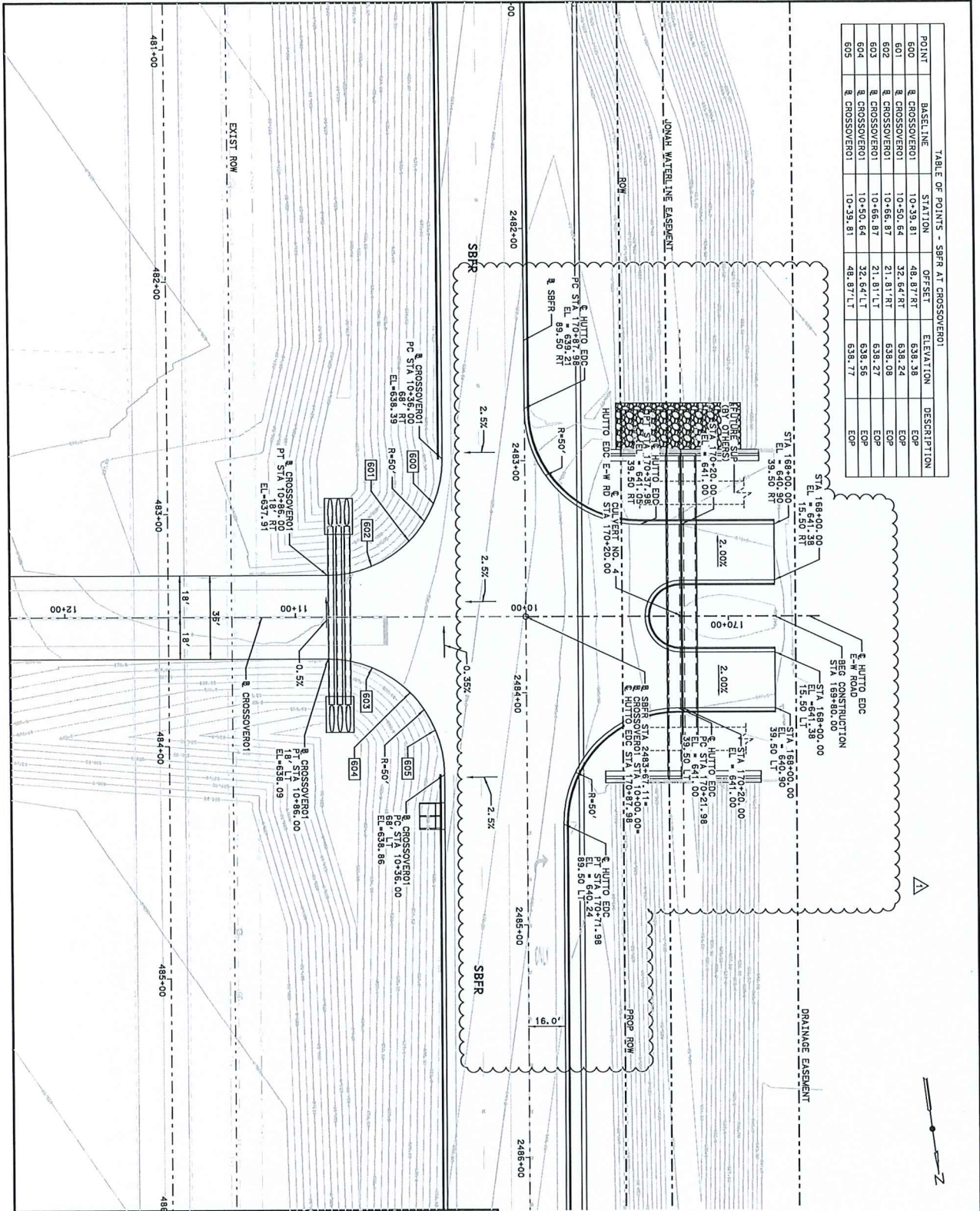
SCALE: 1"=100'

0 50 100 150 200

1/0 10 20 30 40

SCALE IN FEET

TABLE OF POINTS - SBFR AT CROSSOVER			
POINT	BASLINE	STATION	DESCRIPTION
600	SBFR	48.87 RT	EGP
601	SBFR	32.64 RT	EGP
602	SBFR	21.81 RT	EGP
603	SBFR	21.81 LT	EGP
604	SBFR	32.64 LT	EGP
605	SBFR	48.87 LT	EGP



LEGEND

- PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
- EXISTING ROW
- PROPOSED ROW
- LEVEL-UP AND OVERLAY
- MILL AND OVERLAY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED RETAINING WALL
- SANITARY

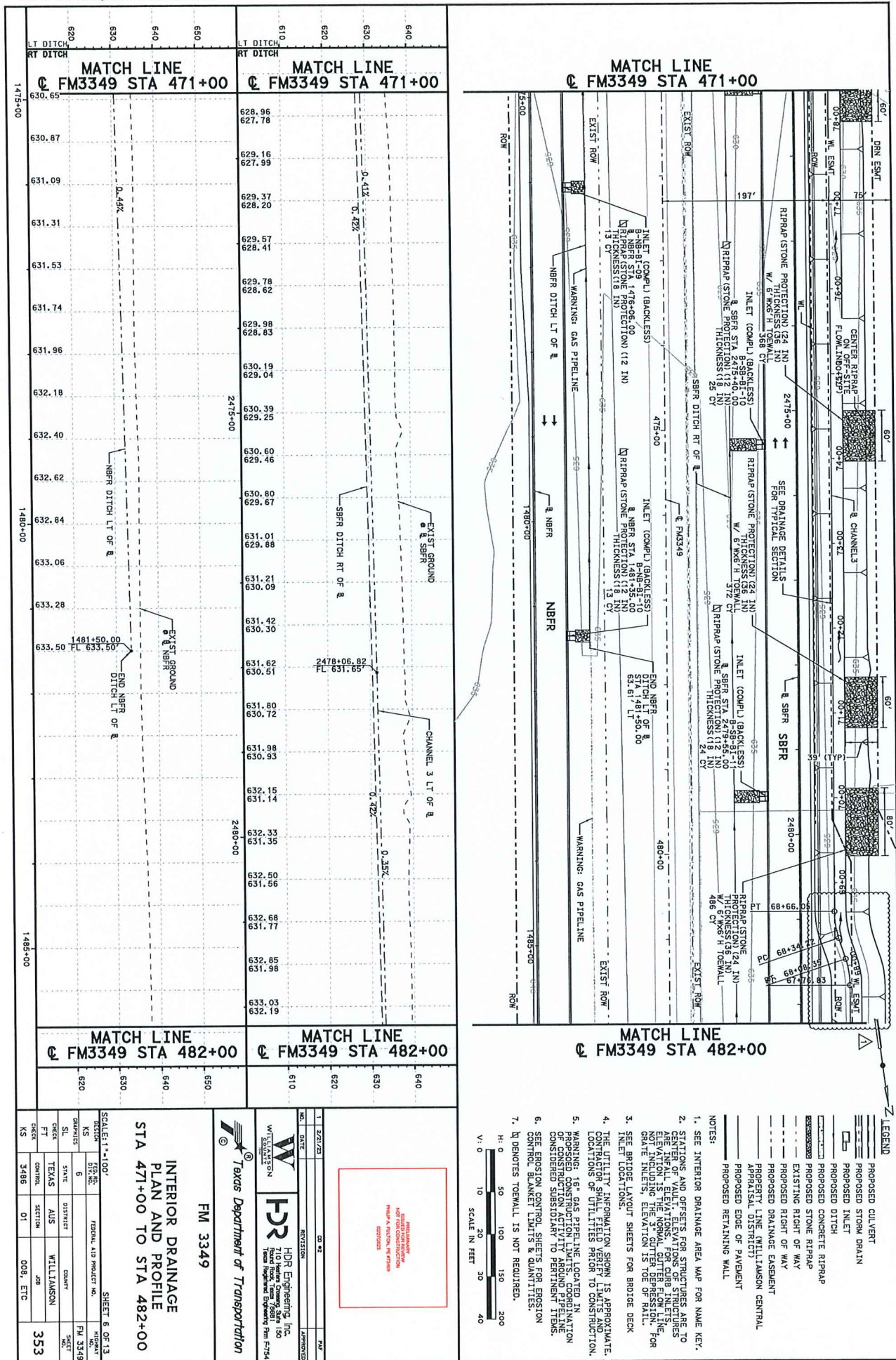
NOTES:

- SEE HORIZONTAL ALIGNMENT DATA SHEETS FOR CURVE DATA AND ADDITIONAL INFO.
- REFER TO DRAINAGE BRIDGE AND RETAINING WALL SHEETS FOR APPLICABLE DETAILS.
- DIMENSIONS ARE TO THE LIP OF CUTTER UNLESS NOTED OTHERWISE.

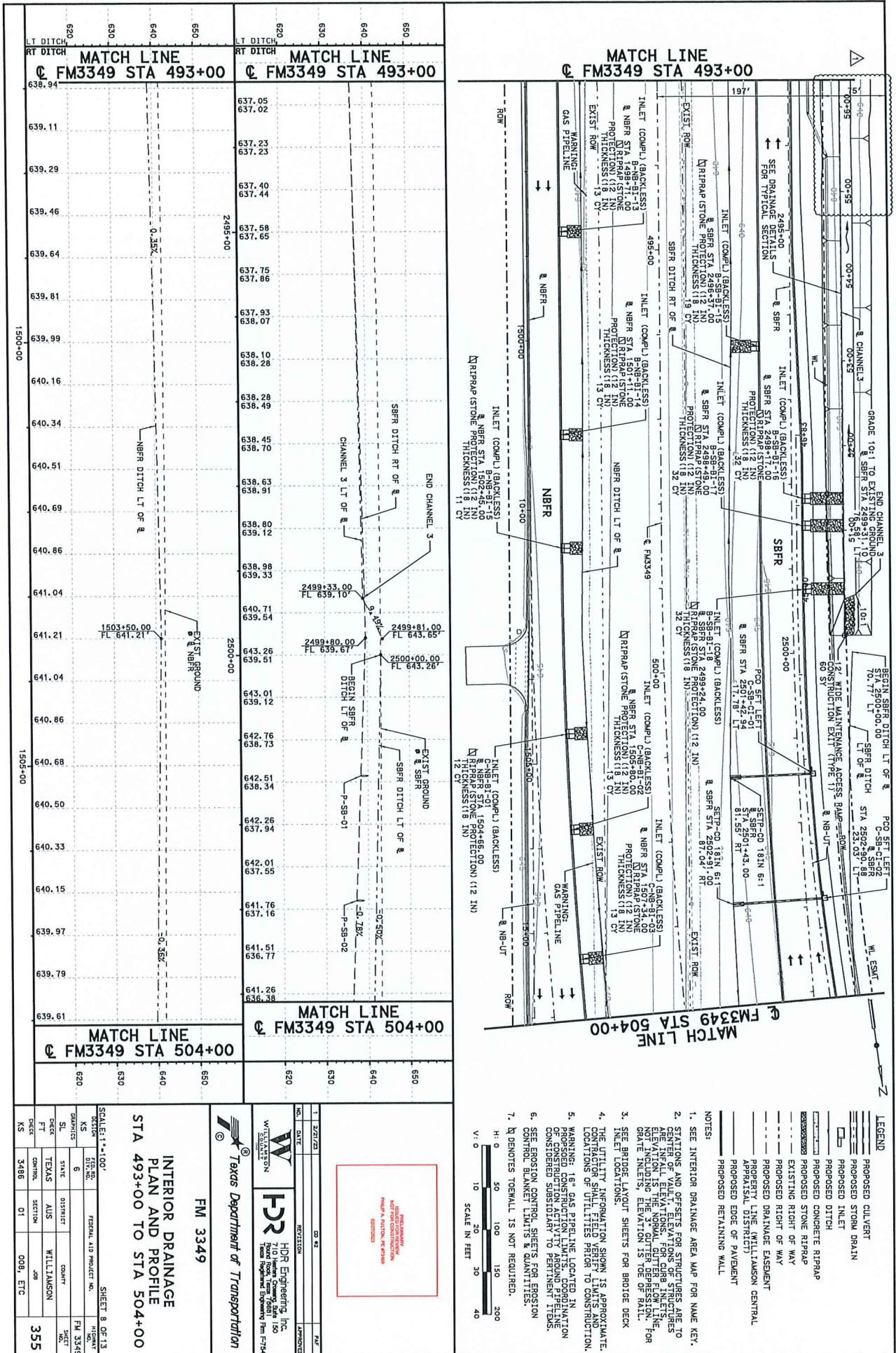


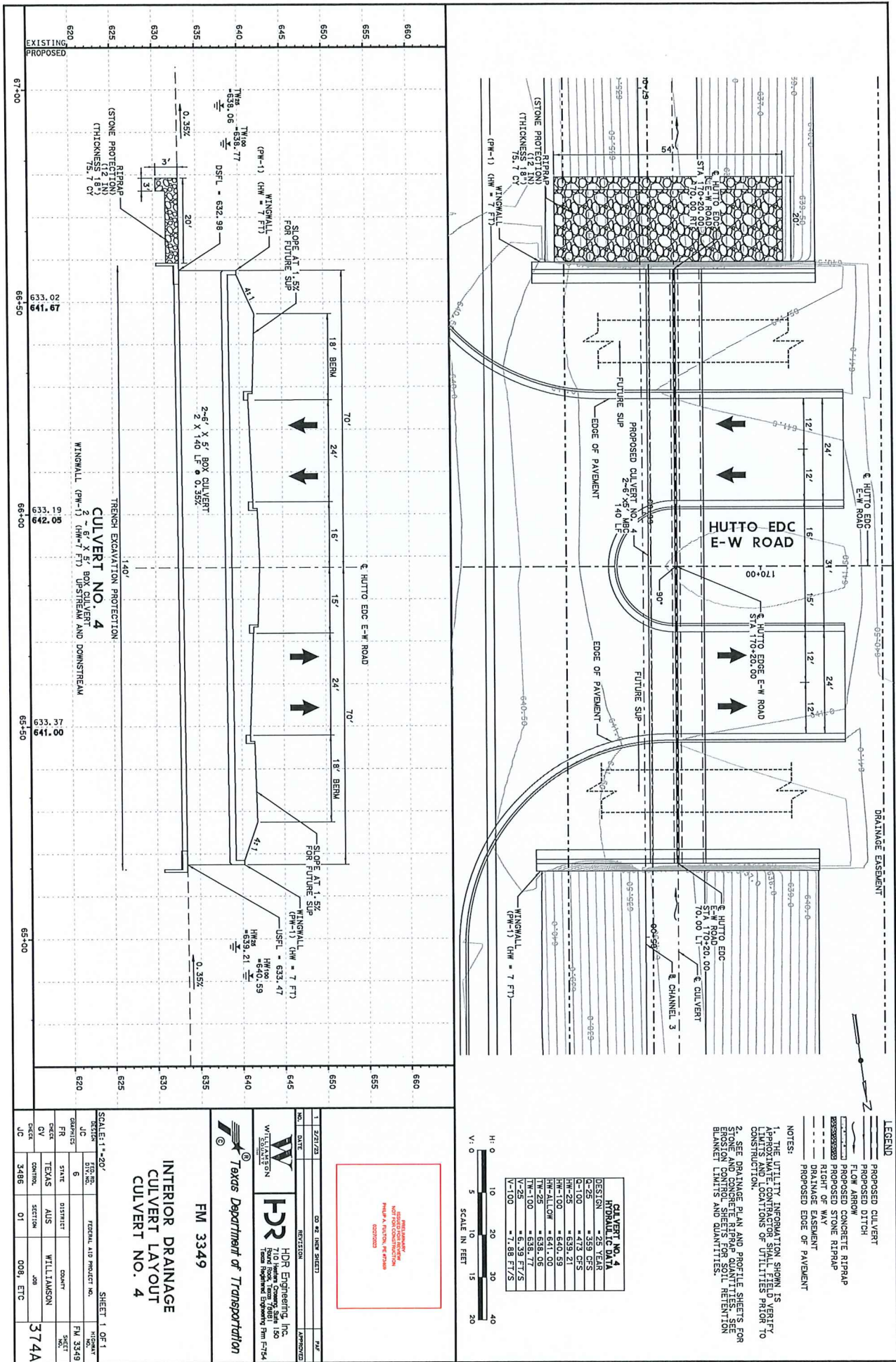
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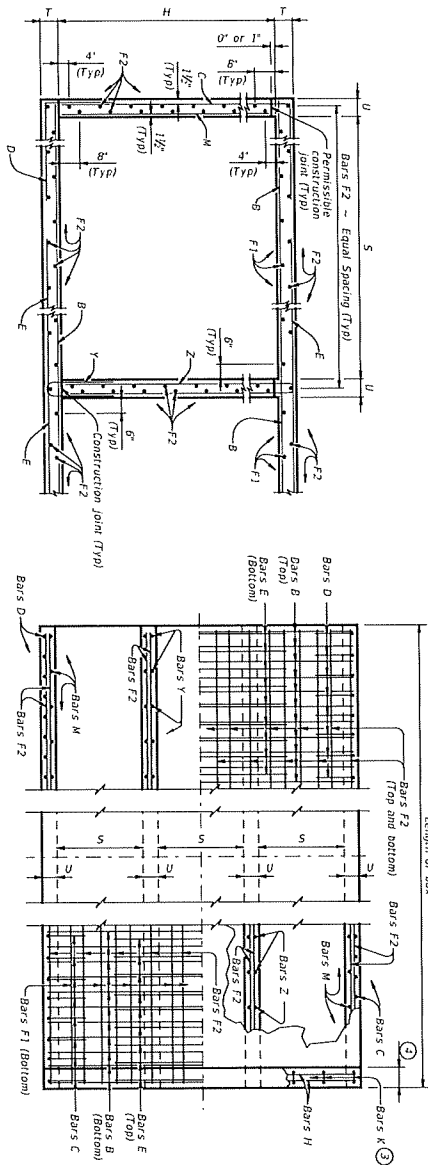
Culvert Station and/or Creek Name Followed by applicable end (Lt, Rt, or Both)	Description of Box Culvert	Max Span Height (ft)	Applicable Culvert Standard (4)	Applicable Type of Treatment Standard	Stem Angle (0°-15° 30° or 45°)	Site Slope or Channel Slope Ratio (SL:1)	T Junction Top Slab Thickness (in)	U Culvert Wall Thickness (in)	C Estimated Curb Height (ft)	Hwy (1)	A Curb to End of Wingwall (ft)	B Offset of End of Wingwall (ft)	Lw Length of Trough Wingwall (ft)	LTw Culvert Trough Length (ft)	Atw Anchor Trough Length (ft)	Riprap Apron (CY)	Class (2) "C" Conc (Wingwall)	Class (3) "C" Conc (Area)	Total Wingwall Area
SBFR CULVERT NO. 1 DS (LT)	1 ~ 10' X 4'	8.32'	SCP-10	PM-1	0	4:1	10"	10"	4.083	8.917	N/A	N/A	35.667	11.667	N/A	0.0	1.8	41.8	636
SBFR CULVERT NO. 1 DS (RT)	1 ~ 10' X 4'	8.32'	SCP-10	SM-0	0	4:1	10"	10"	0.583	5.167	N/A	N/A	19.333	N/A	N/A	2.5	0.3	6.9	106
SBFR CULVERT NO. 2 US (LT)	2 ~ 10' X 4'	8.32'	SCP-10	PM-1	0	4:1	10"	10"	4.083	8.917	N/A	N/A	35.667	22.833	N/A	0.0	3.6	43.1	636
SBFR CULVERT NO. 2 DS (RT)	2 ~ 10' X 4'	8.32'	SCP-10	SM-0	0	4:1	10"	10"	0.583	5.167	N/A	N/A	19.333	N/A	N/A	6.4	0.5	6.9	106
SBFR CULVERT NO. 3 US (LT)	4 ~ 8' X 4'	7.45'	SCP-8	PM-1	45	4:1	8"	8"	2.625	7.292	N/A	N/A	41.248	54.919	N/A	0.0	5.3	42.3	602
SBFR CULVERT NO. 3 DS (RT)	4 ~ 8' X 4'	7.45'	SCP-8	PM-1	45	4:1	8"	8"	0.875	5.542	N/A	N/A	31.348	54.919	N/A	0.0	1.8	27.2	347
OR 132 B-NB-CV-01 (Both)	1 ~ 4' X 2'	1'	SCP-4	SETB-CD	0	6:1	7.5"	5"	0.250	2.625	N/A	N/A	13.1750	N/A	N/A	0.0	0.0	5.0	N/A
CULVERT NO. 4 (BOTH)	2 ~ 6' X 5'	3	MC-B-16	PM-1	0	4:1	9"	7"	1.000	6.750	N/A	N/A	27.000	13.750	N/A	0.0	1.0	49.2	730

4) Regardless of the type of culvert shown on this sheet

The Contractor has the option of furnishing cast-in-place or precast culverts unless otherwise shown elsewhere on the plans. If the Contractor elects to provide culverts of a different type than those shown on this sheet, it is the Contractor's responsibility to make the necessary adjustments to the dimensions and quantities shown.

1	2/21/23	CO #10	PAID
NO.	DATE	REVISION	APPROVED
 Texas Department of Transportation		Bridge Division Standard	
BOX CULVERT SUPPLEMENTS WINGS AND END TREATMENTS			
BCS			
FILE	KS0561-24-00	100	1:000
PROJECT	February 2020	SCALE 1/8" = 1'-0"	1:000
REVISED		DATE	REVISION
3/6/8	008	ETC	FM 3349
2023		CONVY	
AUS	WILLIAMSON		
NO.		SCALE 1/8" = 1'-0"	401

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

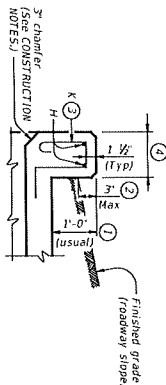


TYPICAL SECTION

BOTTOM SLAB

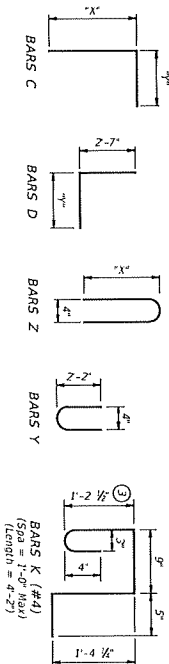
PART PLANS

TOP SLAB



SECTION THRU CURB

BAR	MIN.	MAX.
H	2'-0"	2'-7 1/2"
2'-0"	2'-7 1/2"	4'-1"
3'-0"	3'-7 1/2"	4'-1"
4'-0"	4'-7 1/2"	4'-1"
5'-0"	5'-7 1/2"	4'-1"
6'-0"	6'-7 1/2"	4'-1"



NO.	DATE	REVISION	BY	APPROVED
1	2/27/23			

HL93 LOADING		SHEET 1 OF 2	
Multiple Box Culverts		Standard	
CAST-IN-PLACE		6'-0" SPAN	
2' TO 20' FILL		MC-6-20	
DESIGNER TxDOT FEBRUARY 2023	CHECKER WILLIAMSON	DATE FEBRUARY 2023	BY WILLIAMSON
PROJECT NO. 3486 01 008, ETC	SCALE AS SHOWN	DATE FEBRUARY 2023	BY WILLIAMSON
SHEET NO. 449A	DATE FEBRUARY 2023	BY WILLIAMSON	APPROVED WILLIAMSON

CONSTRUCTION NOTES:
Do not use permanent forms.
Channel, raise construction joints shown at the low line by a maximum of 6". If the channel is raised, the bottom edge of the top slab shall be finished with a 1'-0" chamfer (See Construction Notes).
Bars Y and Z may be reversed.

MATERIAL NOTES:
Reinforcing steel shall be conforming to ASTM A618, Grade 60.
Provide lap splices, where required, as follows:
• Uncoated or galvanized - #5 = 2'-1" Min
• Uncoated or galvanized - #6 = 2'-6" Min

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications for the range of fill heights shown.
See the Multiple Box Culverts Cast-In-Place Miscellaneous Detail (MC-6-20) standard sheet for details pertaining to skewed ends, abutment sections, and wing walls.
Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are cut-to-shape of bar.

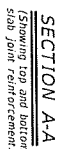
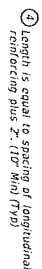
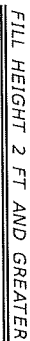
The contractor may replace Bars B, C, D, E, F1, F2, M, Y, and/or Z with deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. The spacing of WWR is limited to 4" min and 18" max. When required, providing lap splices between conventional bar sizes. The lap length required for WWR is never less than the lap length required for uncoated #4 bar.
Example comparison: Replacing No. 6 at 6" spacing with WWR.
Required WWR = (0.44 sq. in. per ft.) x (60 ksi / 70 ksi) = 0.375 sq. in. per ft.
If D306 wire is used to meet the 0.375 sq. in. per ft. requirement in this example, the required spacing = (0.306 sq. in.) / (0.755 sq. in. per ft.) = 0.405 ft. = 4.86" minimum lap length required for uncoated #5 bars, as listed under MATERIAL NOTES.

- For M-15 5'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 1'-0", refer to the Extended Curb Details (ECD) standard sheet. For structures with 1631 or 1631LS bridge rail, refer to the Mounting Details for 1631 & 1631LS Rails (1631-CM) standard sheet. Refer to the MC-6-20 standard sheet for structures with bridge rail higher than 1631 or 1631LS.
- For vehicle safety, the following requirements must be met:
• For structures with bridge rail, construct curb no more than 3" above finished grade.
• For structures with bridge rail, construct curb with finished grade. Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.
- 1'-0" typical, 2'-3" when the Rail Anchorage Curb (RAC) standard sheet is referred to elsewhere in the plans.

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for its purchase or use. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

SECTION DIMENSIONS										BILLS OF REINFORCING STEEL (For Box Length = 40 feet)										QUANTITIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										Bars B					Bars C & D					Bars E					Bars F1 ~ #4					Bars F2 ~ #4					Bars M ~ #4					Bars Y & Z ~ #4					Bars H 4 ~ #4					Bars K					Per Foot (lb)					Curb					Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
S	H	T	U	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length	Wt.	No.	Size	Length</

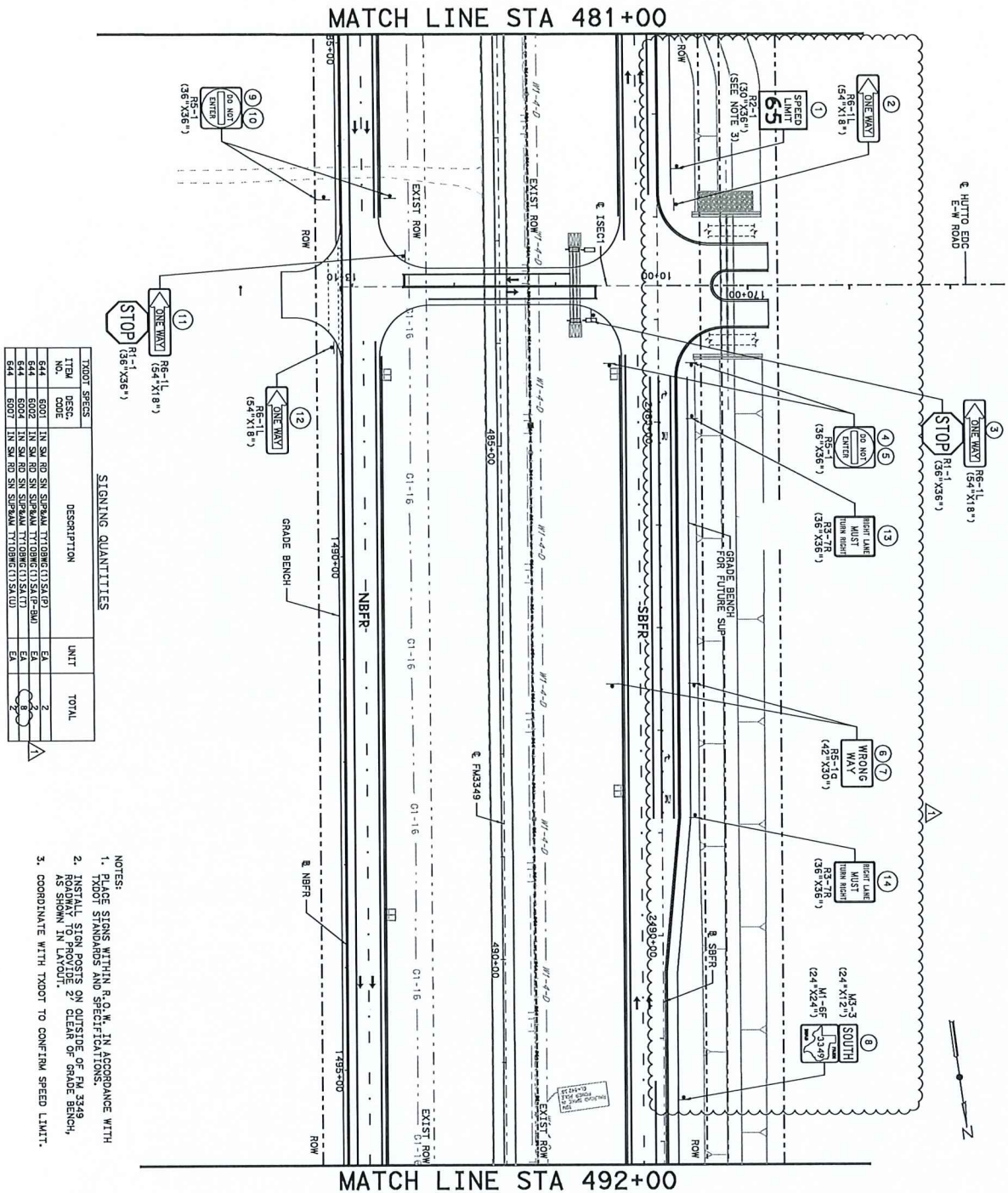
- ① For box length = 8'-0"
- ② AS1 thru AS4, AS7 and AS8 are minimum required areas of reinforcement per linear foot of box length. AS5 is minimum required area of reinforcement per linear foot of box width



HL93 LOADING

Texas Department of Transportation	Standard
SINGLE BOX CULVERTS PRECAST 6'-0" SPAN	

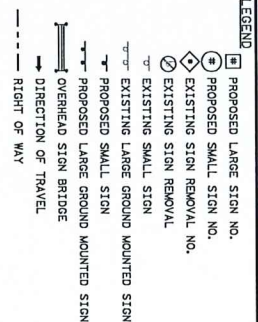
1	2/21/73	CO #2	PAC	
NO.	DATE	REVISION	APPROVED	
			AUS	WILLIAMSON 449C



ITEM NO.		DESCRIPTION	UNIT	TOTAL
644	6001	1N SM RD SN SUPPLM TY10RMC(1)SA(P)	EA	2
644	6002	1N SM RD SN SUPPLM TY10RMC(1)SA(P)-BM	EA	2
644	6003	1N SM RD SN SUPPLM TY10RMC(1)SA(T)	EA	2
644	6007	1N SM RD SN SUPPLM TY10RMC(1)SA(U)	EA	2

- NOTES:
1. PLACE SIGNS WITHIN R.O.W. IN ACCORDANCE WITH TXDOT STANDARDS AND SPECIFICATIONS.
 2. INSTALL SIGN POSTS ON OUTSIDE OF FM 3349 RAMPWAY TO PROVIDE 2' CLEAR OF GRADE BENCH, AS SHOWN IN LAYOUT.
 3. COORDINATE WITH TXDOT TO CONFIRM SPEED LIMIT.

MATCH LINE STA 492+00



NO.	DATE	SECTION	APPENDIX	PAGE
1	7/27/73			



WD SOLUTIONS

HDR HDR Engineering, Inc.
 1000 North Highway 70, Suite 150
 Houston, Texas 77061
 Texas Registered Engineering Firm #1792



Texas Department of Transportation

FM 3349

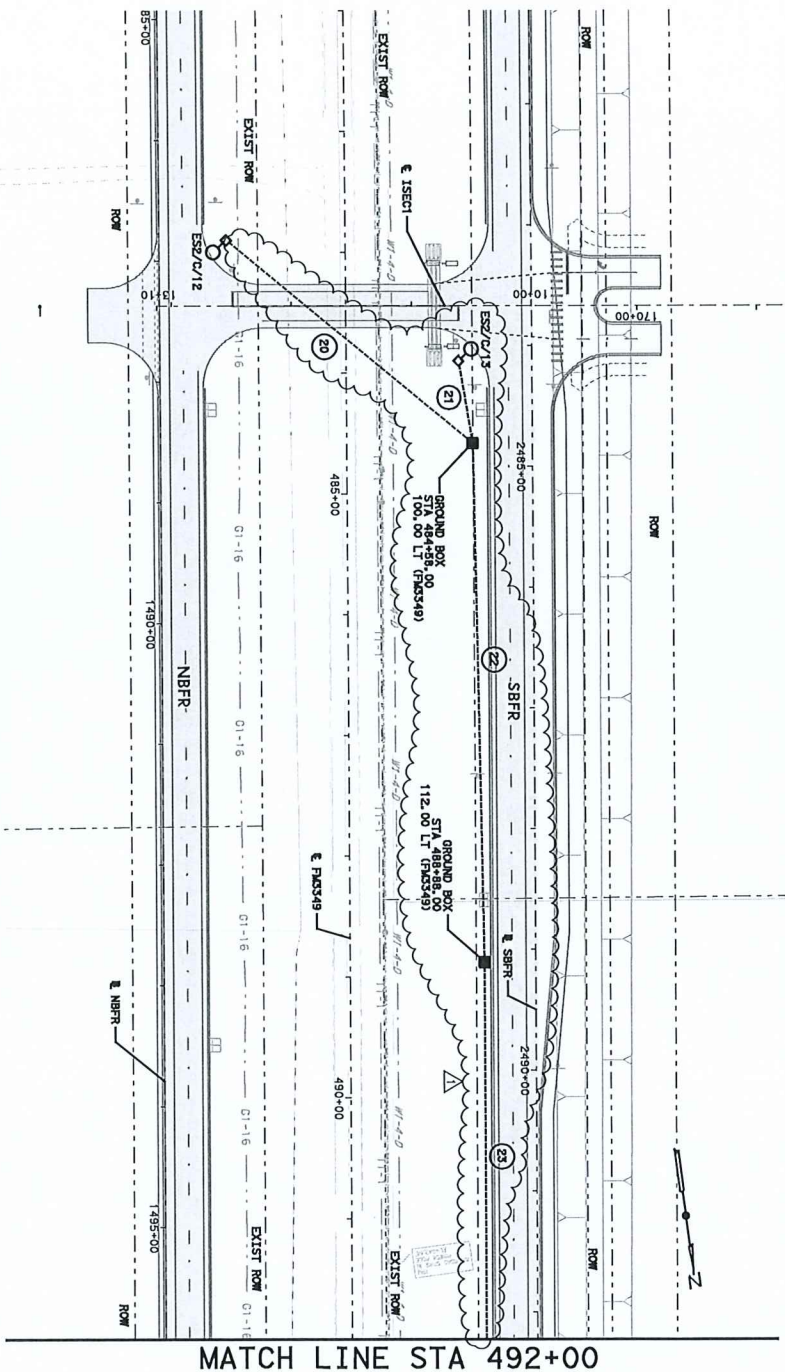
SIGNING LAYOUT
FM 3349

STA 481+00 TO STA 492+00

SCALE: 1"=100'

SHEET 7 OF 14

SECTION	DIST. NO.	FEDERAL AID PROJECT NO.	PICUPAD NO.
TO	6		FM 3349
SUBTOTALS	5176		
SF	5176	015176121	COUNTY
CRACK	TEKAS	AUS	WILLIAMSON
FT	CONTRACT	SECTION	JOB
TO	3486	01	008, ETC
			6422



MATCH LINE STA 492+00

ILLUMINATION LEGEND

- 407 MOTOR STANDARD ILLUMINATION ASSEMBLY,
 408 MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM,
 409 LED LUMINAIRE (250W EO) SHOE BASE TO
 410 BRIDE BLASTET, TYPE III DISTRIBUTION
 411
 412 MOTOR STANDARD ILLUMINATION ASSEMBLY,
 413 LED LUMINAIRE (250W EO) SHOE BASE TO
 414 RETAINING WALL LIGHTING BRACKET, TYPE III
 415 DISTRIBUTION
 416
 417 MOTOR STANDARD ILLUMINATION ASSEMBLY, 407
 418 LED LUMINAIRE (250W EO), TRANSFORMER BASE,
 419 III DISTRIBUTION
 420
 421 MOTOR STANDARD TYPE II UNDERPASS ILLUMINATION
 422 ASSEMBLY, (1) LED LUMINAIRE (150W EO),
 423 TYPE III DISTRIBUTION
 424
 425 ELECTRICAL SERVICE ASSEMBLY, TYPE A,
 426 240/480 VOL., 1 PHASE, STEEL POLE
 427
 428 GROUND BOX WITH APRON (NEMA 3B)
 429
 430 GROUND BOX (NEMA 3B)
 431
 432 JUNCTION BOX (NEMA 3B).
 433
 434 DISCONNECT SWITCH (NEMA 3B)
 435
 436 CONDUCTORS IN CONDUIT RUN (G10D METAL
 437 CONDUIT)
 438
 439 CONDUCTORS IN CONDUIT RUN (EMBEDDED IN
 440 BRIDGE STRUCTURE)
 441
 442 CONDUCTORS IN CONDUIT RUN (TRENCH)
 443
 444 CONDUCTORS IN CONDUIT RUN (BORED)
 445
 446 CONDUCTORS/CONDUIT SEGMENT NO.

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED ACCORDING TO THE MOST RECENT EDITIONS OF THE NATIONAL ELECTRICAL CODE STANDARDS, AND THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.
2. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO LOCATE ALL EXISTING UTILITIES PRIOR TO PROPOSED UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO AVOID CONFLICT OR DAMAGE TO THE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF THE ENGINEER AND AVOIDS THE OFFSETS TO AVOID DAMAGE TO THE EXISTING PROPOSED UTILITIES.
3. REFER TO ILLUMINATION SUMMARIES, SPECIFICATIONS, AND TROUBLE STANDARDS FOR ADDITIONAL INFORMATION.
4. PROPOSED ABOVE GROUND AND IN-JUNCTION BOXES SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
5. PROVIDE CONSULT EXPANSION AND DEFLECTION COUPLING PRIOR TO ENTERING BRIDGE MOUNTED JUNCTION BOX FOR TRANSITION FROM UNDERGROUND TO ABOVE GROUND. PROVIDE 4' HORIZONTAL AND VERTICAL MOVEMENT, MAXIMUM OF 4' HORIZONTAL AND VERTICAL MOVEMENT.
6. REFER TO BRIDGE DRAWINGS FOR EXACT LOCATION OF BRIDGE MOUNTED ILLUMINATION ASSEMBLIES AND ASSOCIATED INSTALLATION DETAILS.

		CONDUCTORS (L.F.)				CONDUIT (L.F.)		NOTES	
SERVICE	CIRCUIT	SEGMENT	SPECIFIC LENGTH	0618-0023	0620-0007	0623-0003	0618-0023	0620-0007	0623-0003
E12	20	264	X 264	264	X 263	263	X 263	263	528
E13	20	264	X 264	264	X 263	263	X 263	263	528
E22	22	430	X 430	435	X 435	435	X 435	435	870
E23	23	312	X 312	312	X 317	317	X 317	317	634
SHEET TOTAL				1065					2190

ROADWAY ILLUMINATION ASSEMBLY SUMMARY						
SERVICE	POLE NO.	CIRCUIT	STATION	OFFSET	ASSEMBLY TYPE	NOTES
ES2	12	C	483-90-00	99.00 RT (FM3434)	(TYPE SA 40 T-10 (250W) EO LED	
ES2	13	C	483-90-00	93.75 LT (FM3434)	(TYPE SA 40 T-10 (250W) EO LED	

SHEET SUMMARY OF ESTIMATED QUANTITIES			
ITEM#	DESCRIPTION	UNIT	QT
0416 6029	DRILL SHAFT (RQWY ALL POLE) (30 IN)	LF	34
0432 6007	RIPRAP (CONC'D) 40-60	CU	21
0610 6216	IN 1L (T) SA 40-1/2 (250W EQ LED	EA	1
0618 6023	CONOT (POW) (SCH 40 (2")	LF	107
0620 6007	ELEC CONDR (NO. 8) BARE	LF	1098
0622 6008	ELEC CONDR (NO. 4) INSULATED	LF	219
0624 6002	GROUND BOX TY A (123211)W/ARHON	EA	1

FM 3349

ILLUMINATION PLAN

STA 481+00 TO STA 492+00

SCALE: 1"=100'				SHEET 4 OF 11	
SECTION	FILE NO.	TRFREQ. AND PROJECT NO.	MILEAGE		
GNM	DIV. NO.		354.0		
GNM	6		FM 354.0		
GNM	STATE	DISTRICT	COUNTY		
GNM	TEXAS	AUS	WILLIAMSON		
GNM	CONTROL	SECTION	JOB		
PXD	3486	01	008, ETC		
			SHEET NO.		
			701		



WILLIAMSON COUNTY

HDR

HDR Engineering Inc.
710 Herken Crossing, Suite 150
Round Rock, Texas 78681
Texas Registered Engineering Firm F-7

 Texas Department of Transportation

FM 3349

ILLUMINATION PLAN

STA 481+00 TO STA 492+00

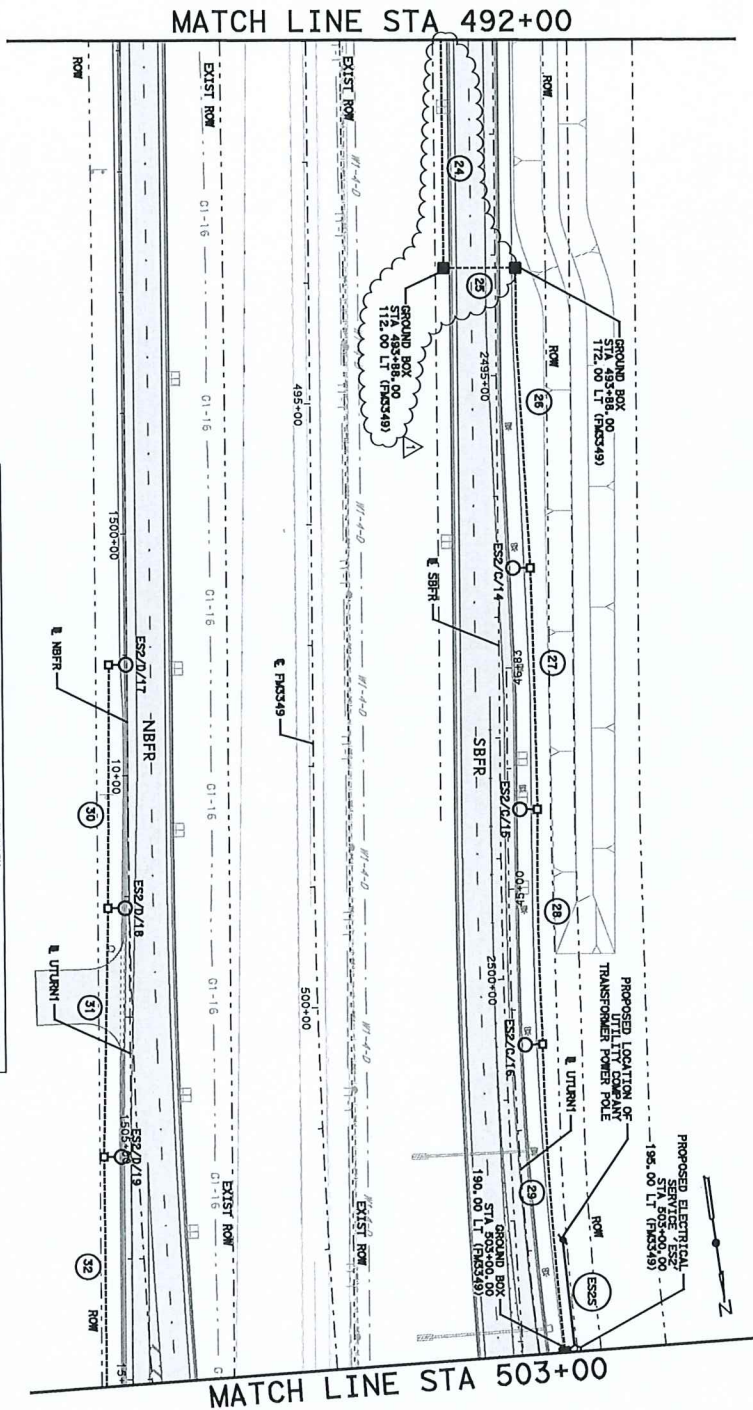
SCALE: 1"=100'				SHEET 4 OF 11	
SECTION	FILE NO.	TRFREQ. AND PROJECT NO.	MILEAGE		
GNM	DIV. NO.		354.0		
GNM	6		FM 354.0		
GNM	STATE	DISTRICT	COUNTY		
GNM	TEXAS	AUS	WILLIAMSON		
GNM	CONTROL	SECTION	JOB		
PXD	3486	01	008, ETC		
			SHEET NO.		
			701		

ROADWAY ILLUMINATION ASSEMBLY SUMMARY						
SERVICE	POLE NO.	CIRCUIT	STATION	OFFSET	ASSEMBLY TYPE	NOTES
E32	14	C	495+35.50	186.00 LT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	
E32	15	C	498+36.50	186.00 LT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	
E32	16	C	500+36.50	186.00 LT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	
E32	17	D	497+15.00	170.25 RT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	
E32	18	D	498+15.00	173.00 RT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	
E32	19	D	501+15.00	183.25 RT (RM2434)	(TYPE SA 40 T-1-0 025W E2D LED	

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED ACCORDING TO THE MOST CURRENT TPOOT STANDARDS, UTILITY COMPANY STANDARDS, AND THE NATIONAL ELECTRIC CODE.
2. THE CONTRACTOR SHALL VERIFY WITH THE UTILITY COMPANIES AND ELECTRIC UTILITIES AGENCY TO AVOID CONFLICTS AND CONFLICTS PRIOR TO CONSTRUCTION TO AVOID CONFLICT OR DAMAGE TO THE UTILITIES. THE CONTRACTOR SHALL SEEK THE APPROVAL OF THE ENGINEER AND ADJUST THE OFFERS TO AVOID

5. PROVIDE CONDUIT EXPANSION AND DEFLECTION COUPLING PRIOR TO ENTERING BRIDGE MOUNTED JUNCTION BOX FOR TRANSITION FROM UNDERGROUND CONDUIT TO BRIDGE MOUNTED CONDUIT. COUPLING SHALL ALLOW FOR A MAXIMUM OF 4" HORIZONTAL AND VERTICAL MOVEMENT.
6. REFER TO BRIDGE DRAWINGS FOR EXACT LOCATION OF BRIDGE MOUNTED ILLUMINATION ASSEMBLIES AND ASSOCIATED INSTALLATION DETAILS.



ILLUMINATION LEGEND

	PILIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	RECESSED LIGHTING	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	TRACK LIGHTING	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	RECESSED LIGHTING	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)
	HANGING LIGHT	7000 STANDARD ILLUMINATION ASSEMBLY, 40" MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM (1) LED LUMINAIRE (250W EO, SHC BASE, TO DISTRIBUTION)

STA 492+00 TO STA 503+00

ILLUMINATION PLAN

FM 3349

 Texas Department of Transportation

WILLIAMSON
COUNTY
1844

Round Rock, Texas 78681
Texas Registered Engineering Firm F-7

W
122
HDR Engineering, Inc.

1	2/21/23	CO #2	PAF
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2023

11/11/11

PAUL N. DAVALL
101043
ER



STATE OF TEXAS

ELECTRICAL SERVICE DESCRIPTION

SERVICE POINT CIRCUIT DESIGNATION

7. TERMINATION ASSEMBLY DESTINATION

COMPLAINANT/COMPLAINT REQUEST NO

CONDUCTORS IN CONDUIT RUN (TRENCH)

- CONDUCTORS IN CONDUIT RUN (EMBEDDED IN BRIDGE STRUCTURE)

CONDUCTORS IN CONDUIT RUN (RIGID METAL CONDUIT)

DISCONNECT SWITCH (NEMA 3R)

SHOOTING BOX NUMBER 217
JINGSTON BOY (NEWA 3P) -

GROUND BOX WITH APRON (NEMA 3R)

ELECTRICAL SERVICE ASSEMBLY, TYPE A,
240/480 VOLT, 1 PHASE, STEEL POLE

ASSEMBLY, (1) LED LUMINAIRE (150W EQ),
TYPE III DISTRIBUTION

TYPE III DISTRIBUTION

TYDOT STANDARD ILLUMINATION ASSEMBLY, 40' MOUNTING HEIGHT, 10 FT. LUMINAIRE AREA (1)

(1) LED LUMINAIRE (2300 EW), SHOE BASE, 10
RETAINING WALL LIGHTING BRACKET, TYPE III
DISTRIBUTION

FUTURE TROOP STANDARD ILLUMINATION ASSEMBLY,
40' MOUNTING HEIGHT - 10 FT. LIMIT ATRE ARM.

40' MOUNTING HEIGHT, 10 FT. LUMINAIRE ARM,
(1) LED LUMINAIRE (250W EQ), SHOE BASE TO
BRIDGE RAILER TYPE III DISTRIBUTION

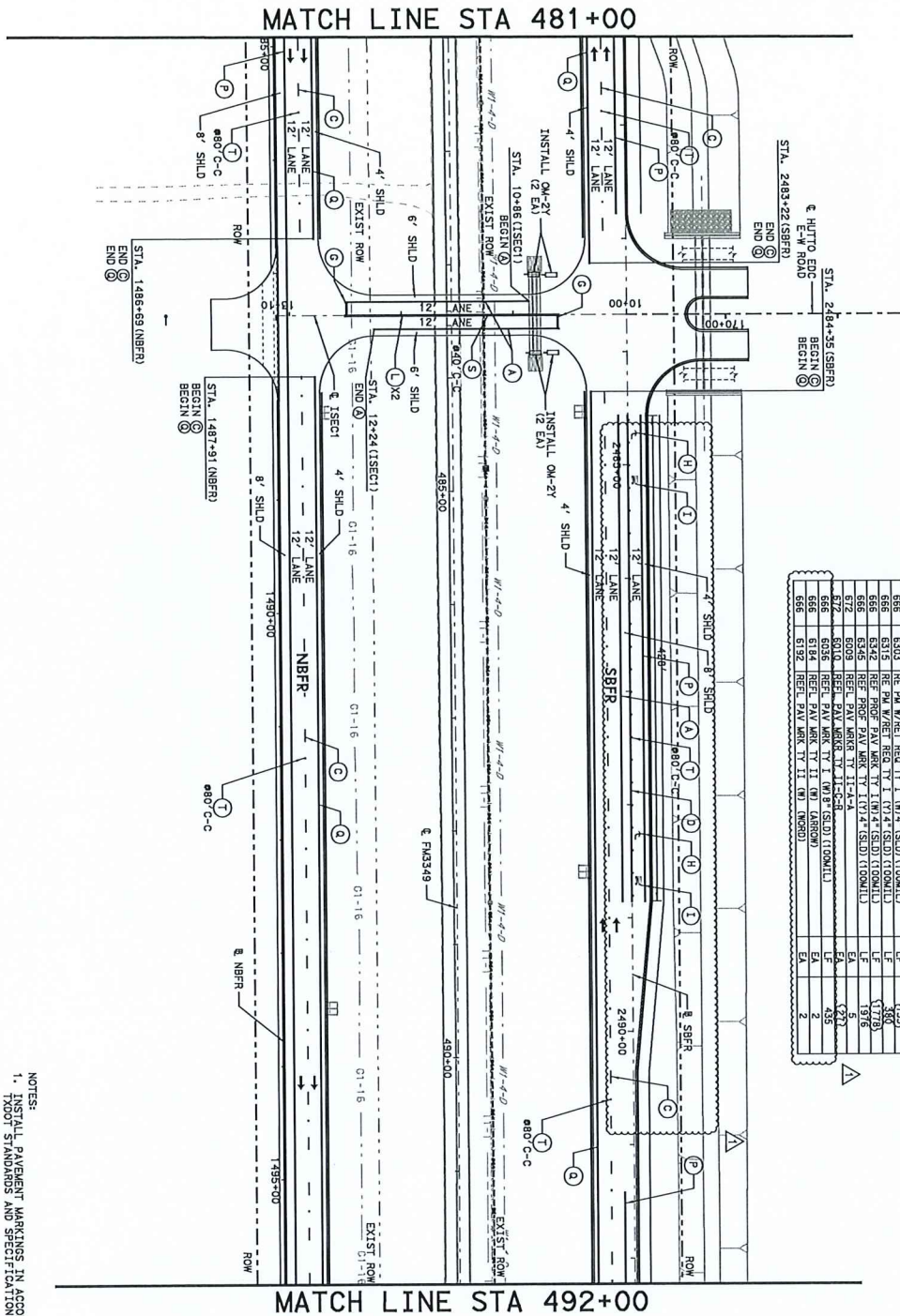
MINIATION LEGEND

100

PAVEMENT MARKING OFFSET TABLE						
MARKING	ALIGNMENT	STATION	OFFSET	TO	STATION	OFFSET
STOP BAR	ISEC1	10+60	-	-	10+60	12L
STOP BAR	ISEC1	12+50	-	-	12+50	12R

PAVEMENT MARKING QUANTITIES			
70001 SPECIES	DESCRIPTION	UNIT	TOTAL
ITEM			
QTY			
658	INST. ON ASSN. (24"x72" WID. CURB)	EA	4
659	REF. PAV. MARK. TY. 1 (1000AL)	LF	24
660	REF. PAV. MARK. TY. 2 (1000AL)	LF	500
661	REF. PAV. MARK. TY. 3 (1000AL)	LF	755
662	REF. PAV. MARK. TY. 4 (1000AL)	LF	380
663	REF. PAV. MARK. TY. 5 (1000AL)	LF	1778
664	REF. PAV. MARK. TY. 6 (1000AL)	LF	1916
665	REF. PAV. MARK. TY. 7 (1000AL)	EA	1
666	REF. PAV. MARK. TY. 8 (1000AL)	EA	2
667	REF. PAV. MARK. TY. 9 (1000AL)	EA	1
668	REF. PAV. MARK. TY. 10 (1000AL)	EA	1
669	REF. PAV. MARK. TY. 11 (1000AL)	EA	1
670	REF. PAV. MARK. TY. 12 (1000AL)	EA	1
671	REF. PAV. MARK. TY. 13 (1000AL)	EA	1
672	REF. PAV. MARK. TY. 14 (1000AL)	EA	1
673	REF. PAV. MARK. TY. 15 (1000AL)	EA	1
674	REF. PAV. MARK. TY. 16 (1000AL)	EA	1
675	REF. PAV. MARK. TY. 17 (1000AL)	EA	1
676	REF. PAV. MARK. TY. 18 (1000AL)	EA	1
677	REF. PAV. MARK. TY. 19 (1000AL)	EA	1
678	REF. PAV. MARK. TY. 20 (1000AL)	EA	1
679	REF. PAV. MARK. TY. 21 (1000AL)	EA	1
680	REF. PAV. MARK. TY. 22 (1000AL)	EA	1
681	REF. PAV. MARK. TY. 23 (1000AL)	EA	1
682	REF. PAV. MARK. TY. 24 (1000AL)	EA	1
683	REF. PAV. MARK. TY. 25 (1000AL)	EA	1
684	REF. PAV. MARK. TY. 26 (1000AL)	EA	1
685	REF. PAV. MARK. TY. 27 (1000AL)	EA	1
686	REF. PAV. MARK. TY. 28 (1000AL)	EA	1
687	REF. PAV. MARK. TY. 29 (1000AL)	EA	1
688	REF. PAV. MARK. TY. 30 (1000AL)	EA	1
689	REF. PAV. MARK. TY. 31 (1000AL)	EA	1
690	REF. PAV. MARK. TY. 32 (1000AL)	EA	1
691	REF. PAV. MARK. TY. 33 (1000AL)	EA	1
692	REF. PAV. MARK. TY. 34 (1000AL)	EA	1
693	REF. PAV. MARK. TY. 35 (1000AL)	EA	1
694	REF. PAV. MARK. TY. 36 (1000AL)	EA	1
695	REF. PAV. MARK. TY. 37 (1000AL)	EA	1
696	REF. PAV. MARK. TY. 38 (1000AL)	EA	1
697	REF. PAV. MARK. TY. 39 (1000AL)	EA	1
698	REF. PAV. MARK. TY. 40 (1000AL)	EA	1
699	REF. PAV. MARK. TY. 41 (1000AL)	EA	1
700	REF. PAV. MARK. TY. 42 (1000AL)	EA	1
701	REF. PAV. MARK. TY. 43 (1000AL)	EA	1
702	REF. PAV. MARK. TY. 44 (1000AL)	EA	1
703	REF. PAV. MARK. TY. 45 (1000AL)	EA	1
704	REF. PAV. MARK. TY. 46 (1000AL)	EA	1
705	REF. PAV. MARK. TY. 47 (1000AL)	EA	1
706	REF. PAV. MARK. TY. 48 (1000AL)	EA	1
707	REF. PAV. MARK. TY. 49 (1000AL)	EA	1
708	REF. PAV. MARK. TY. 50 (1000AL)	EA	1
709	REF. PAV. MARK. TY. 51 (1000AL)	EA	1
710	REF. PAV. MARK. TY. 52 (1000AL)	EA	1
711	REF. PAV. MARK. TY. 53 (1000AL)	EA	1
712	REF. PAV. MARK. TY. 54 (1000AL)	EA	1
713	REF. PAV. MARK. TY. 55 (1000AL)	EA	1
714	REF. PAV. MARK. TY. 56 (1000AL)	EA	1
715	REF. PAV. MARK. TY. 57 (1000AL)	EA	1
716	REF. PAV. MARK. TY. 58 (1000AL)	EA	1
717	REF. PAV. MARK. TY. 59 (1000AL)	EA	1
718	REF. PAV. MARK. TY. 60 (1000AL)	EA	1
719	REF. PAV. MARK. TY. 61 (1000AL)	EA	1
720	REF. PAV. MARK. TY. 62 (1000AL)	EA	1
721	REF. PAV. MARK. TY. 63 (1000AL)	EA	1
722	REF. PAV. MARK. TY. 64 (1000AL)	EA	1
723	REF. PAV. MARK. TY. 65 (1000AL)	EA	1
724	REF. PAV. MARK. TY. 66 (1000AL)	EA	1
725	REF. PAV. MARK. TY. 67 (1000AL)	EA	1
726	REF. PAV. MARK. TY. 68 (1000AL)	EA	1
727	REF. PAV. MARK. TY. 69 (1000AL)	EA	1
728	REF. PAV. MARK. TY. 70 (1000AL)	EA	1
729	REF. PAV. MARK. TY. 71 (1000AL)	EA	1
730	REF. PAV. MARK. TY. 72 (1000AL)	EA	1
731			

PAYEMENT MARKING QUANTITIES



MATCH LINE STA 492+00

NOTES:
1. INSTALL PAYEMENT MARKINGS IN ACCORDANCE WITH
TXDOT STANDARDS AND SPECIFICATIONS.

LEGEND

- | | |
|-----|--|
| A | REFL PAY MARK 4* (W) SLD |
| B | REFL PAY MARK 4* (W) DOT |
| C | REFL PAY MARK 4* (W) BRK |
| D | REFL PAY MARK 8* (W) DOT |
| E | REFL PAY MARK 8* (W) SLD |
| F | REFL PAY MARK 12* (W) SLD |
| G | REFL PAY MARK 24* (W) SLD |
| H | REFL PAY MARK (W) ARROW |
| I | REFL PAY MARK (W) WORD |
| J | REFL PAY MARK (W) YLD TRF (36*) |
| K | REFL PAY MARK (W) LANE REDUCTION ARROW |
| L | REFL PAY MARK 4* (Y) SLD |
| M | REFL PAY MARK 4* (Y) BRK |
| N | REFL PAY MARK 12* (Y) SLD |
| O | REFL CRIST PAY MARK 4* (W) BRK |
| P | REFL PROF PAY MARK 4* (W) SLD |
| Q | REFL PROF PAY MARK 4* (Y) SLD |
| R | RRPM TY 1-C |
| S | RRPM TY II-A-4 |
| T | RRPM TY II-C-4 |
| → | DIRECTION OF TRAVEL |
| α | (0-SW) SZ 2 (W) DND |
| β | (0-SW) SZ 2 (W) DND |
| γ | (0-SW) SZ 2 (W) DND (B) |
| ✱ | (0-SY) SZ 2 (W) DND |
| ✱ | (0-DW) SZ 2 (W) DND |
| ✱ | (0-DW) SZ 2 (W) DND |
| ✱ | (0-SW) SZ (BRF) CTB |
| ✱ | (0-SW) SZ (BRF) CTB |
| --- | RIGHT OF WAY |

SCALE IN FEET

MAY

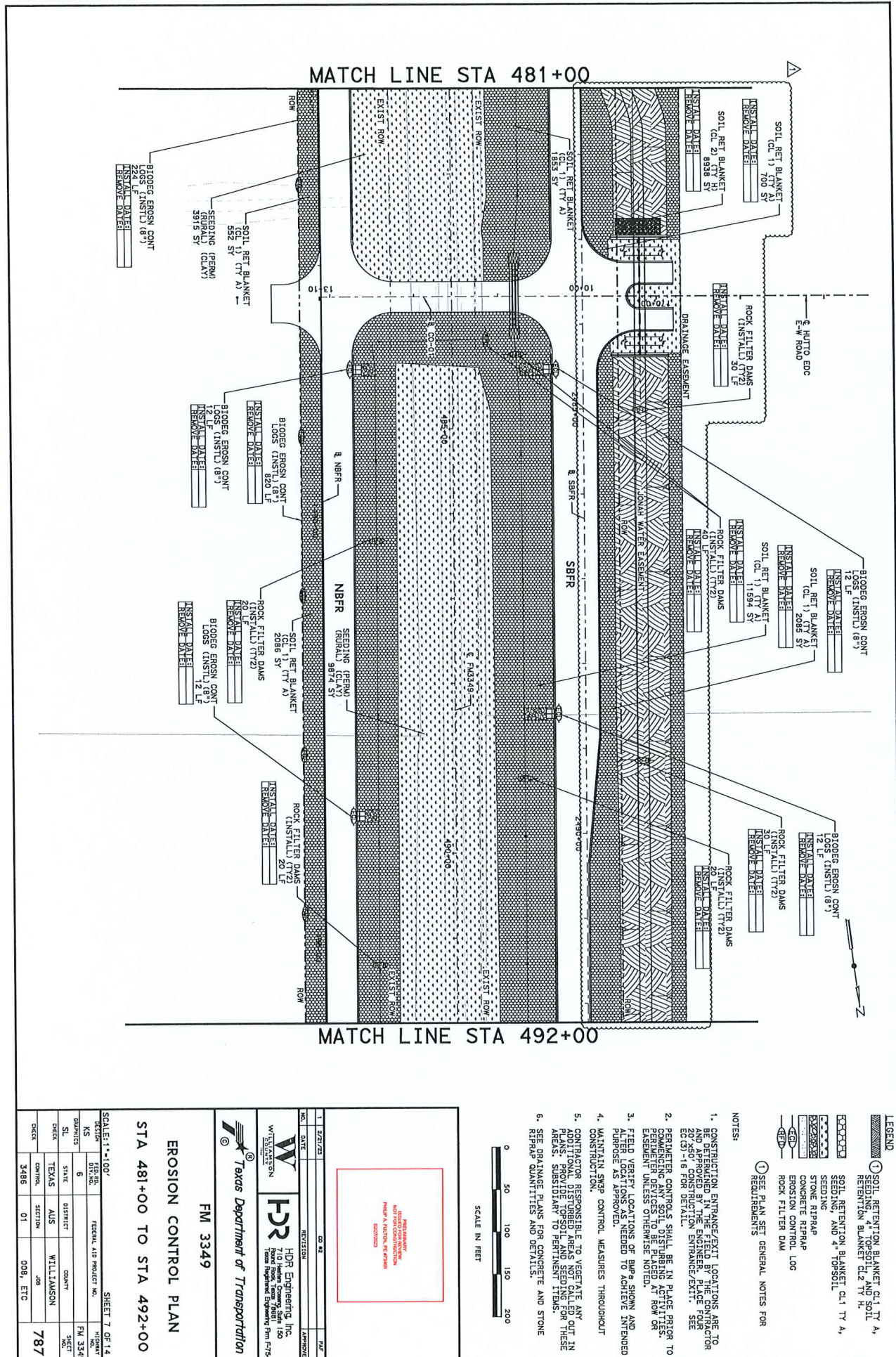

WILKINSON
 ENGINEERING
 710 Western Gateway, Suite 150
 Texas Registered Engineering Firm #754-

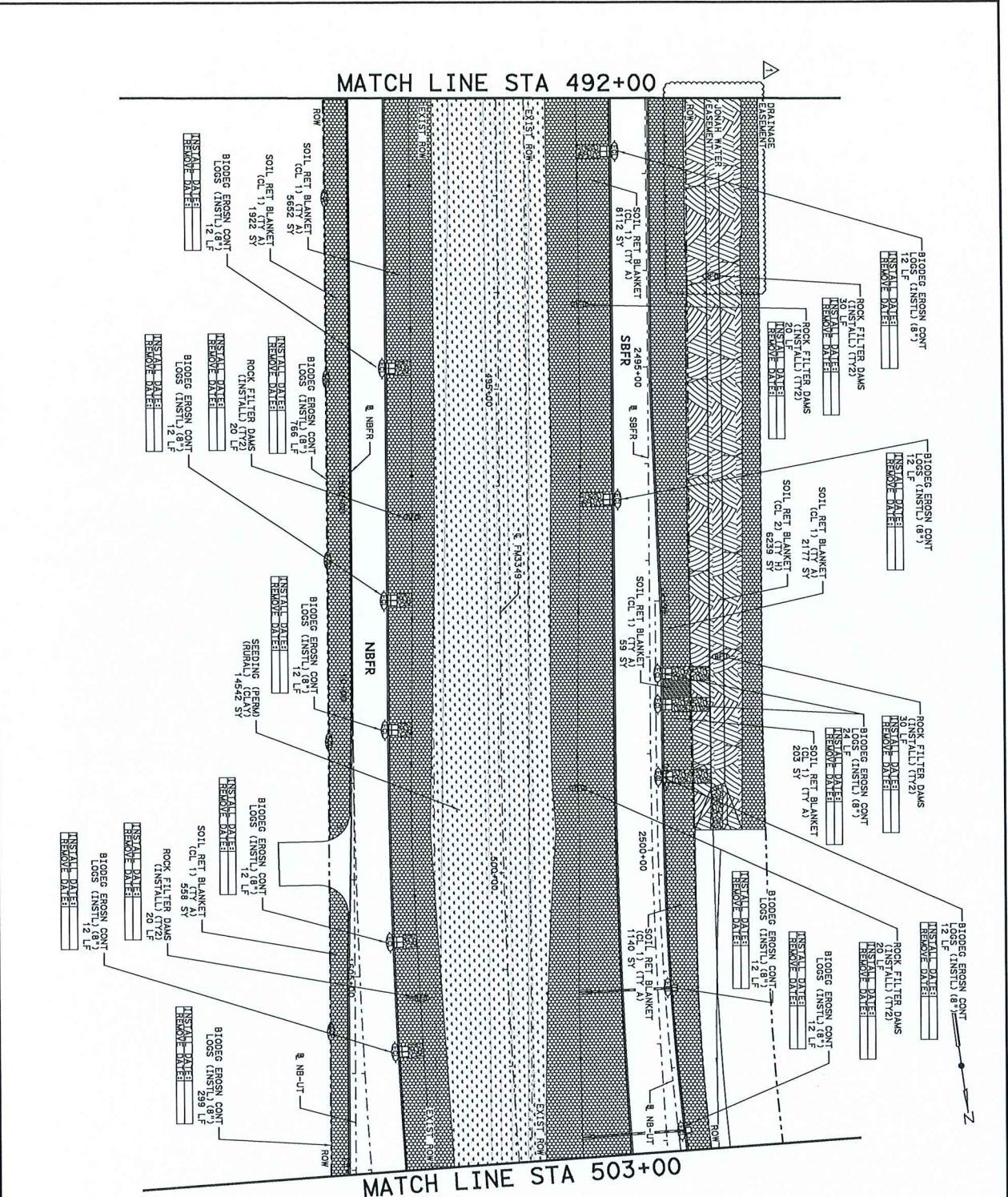
HDR Engineering, Inc.
 710 Western Gateway, Suite 150
 Texas Registered Engineering Firm #754-

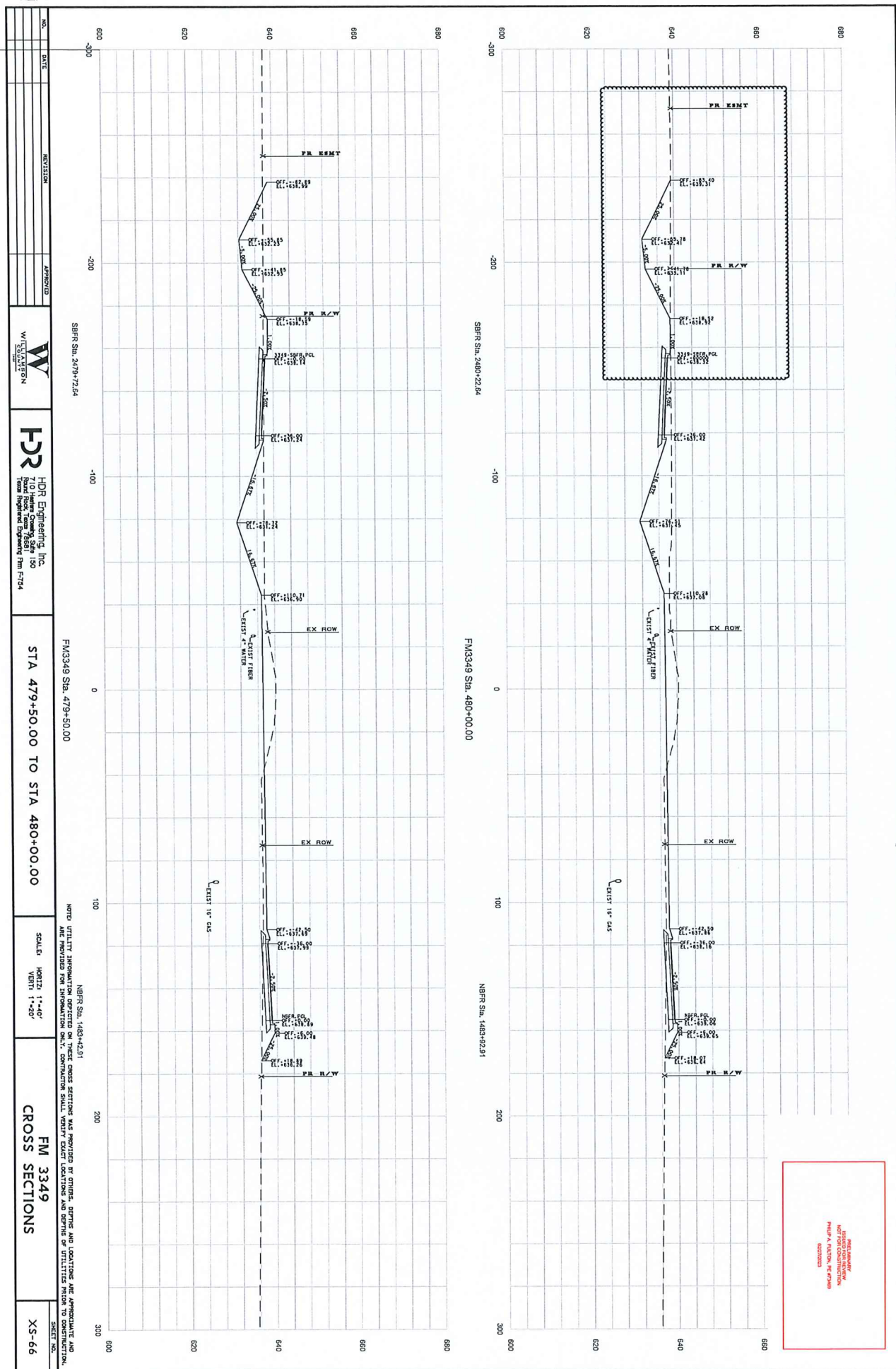

Texas Department of Transportation
 FM 3349

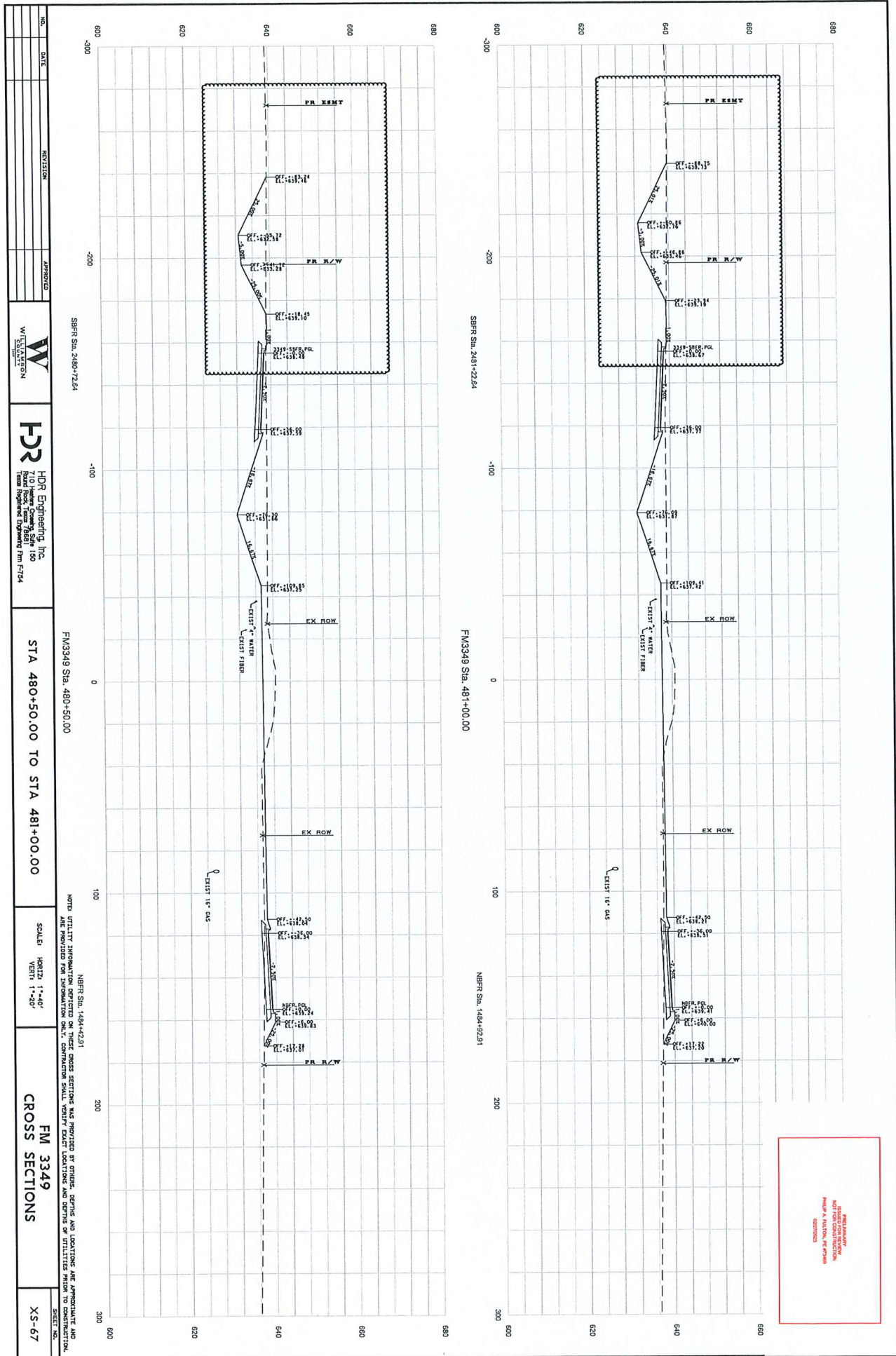
STRIPING AND DELINEATION
LAYOUT
STA 481+00 TO STA 492+00

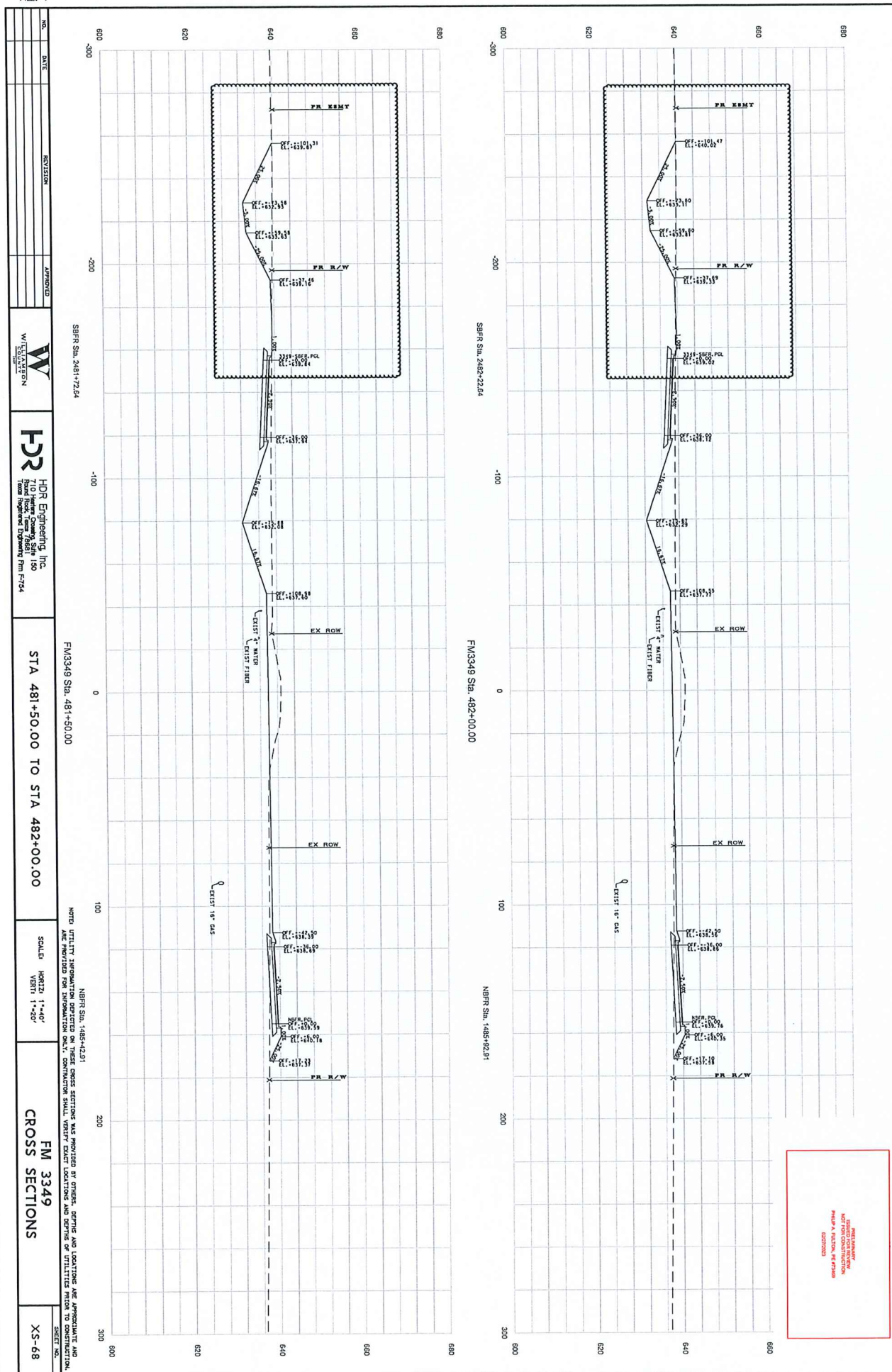
SCALE: 1"=100'		SHEET 7 OF 14	
SECTION	FED. RD. DIST. NO.	FEDERAL AID PROJECT NO.	ALLEGANY COUNTY, MD.
TO	6		FM 33.44
FROM	SHARPS	DISTRICT	SHEET NO.
SF	STATE	COUNTY	745
ORCA	TEXAS	WILLIAMSON	
FT	CONTROL	SECTION JOB	
ORCA			
TO	3466	008, ETC	

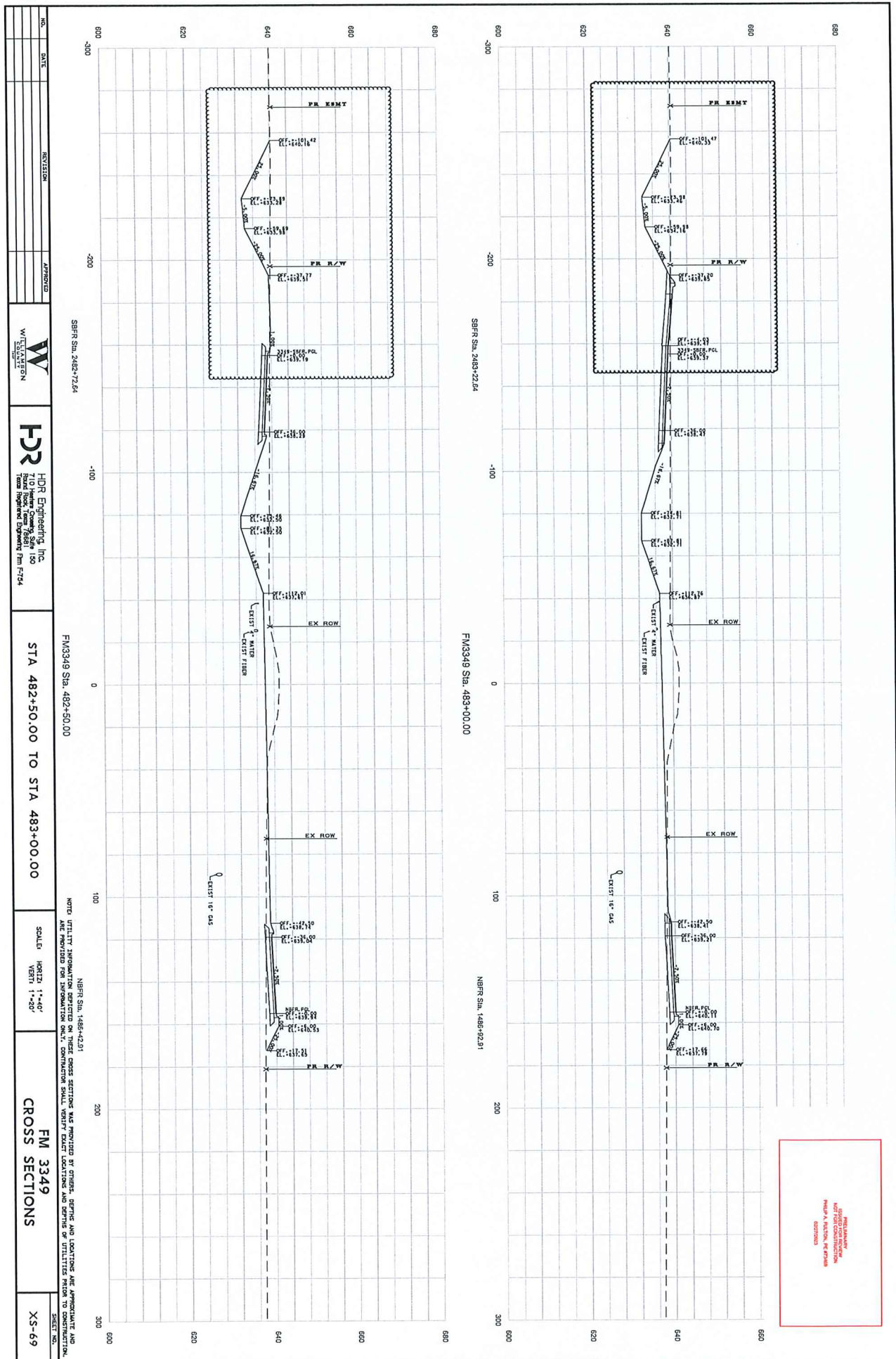


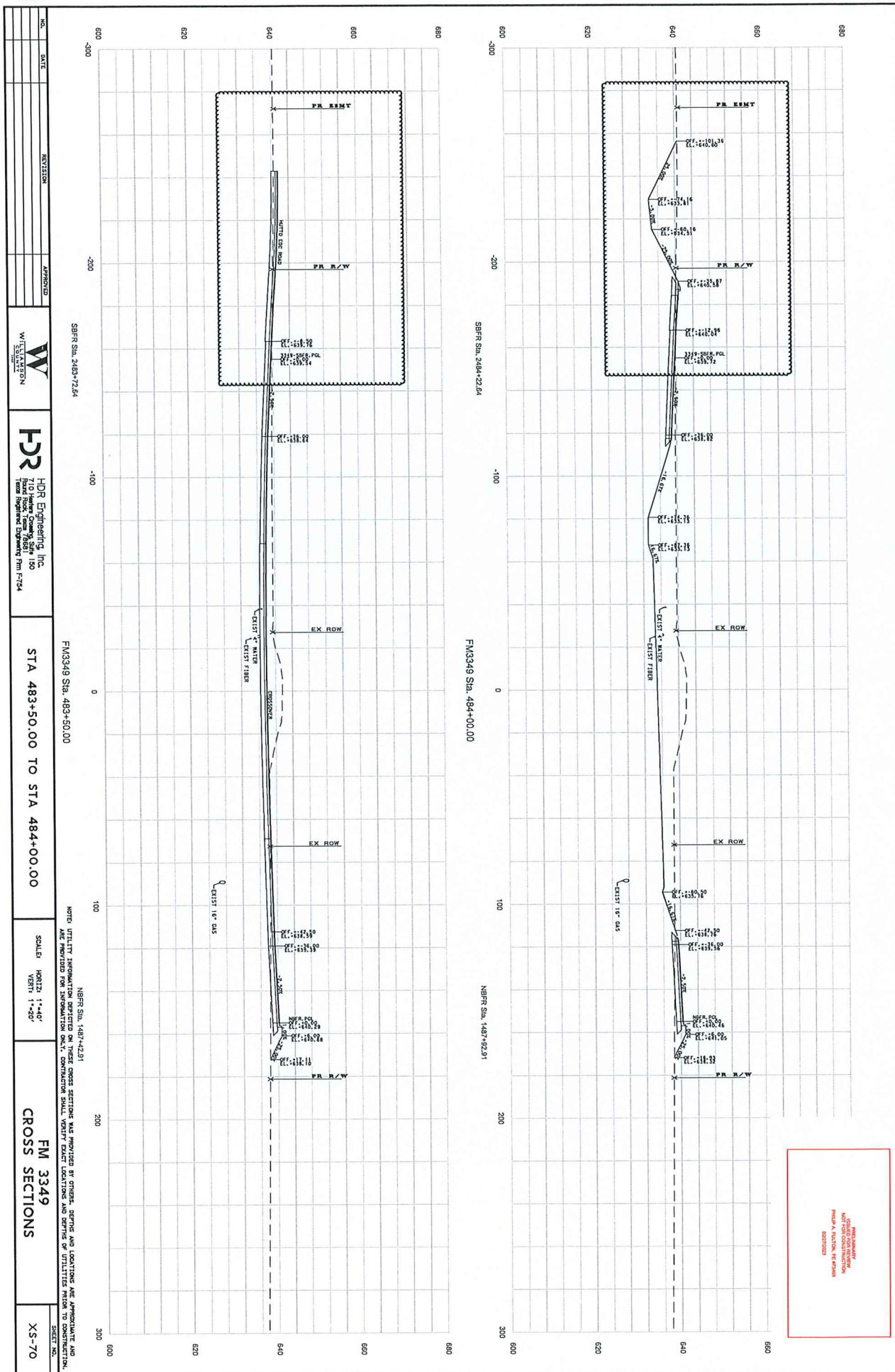


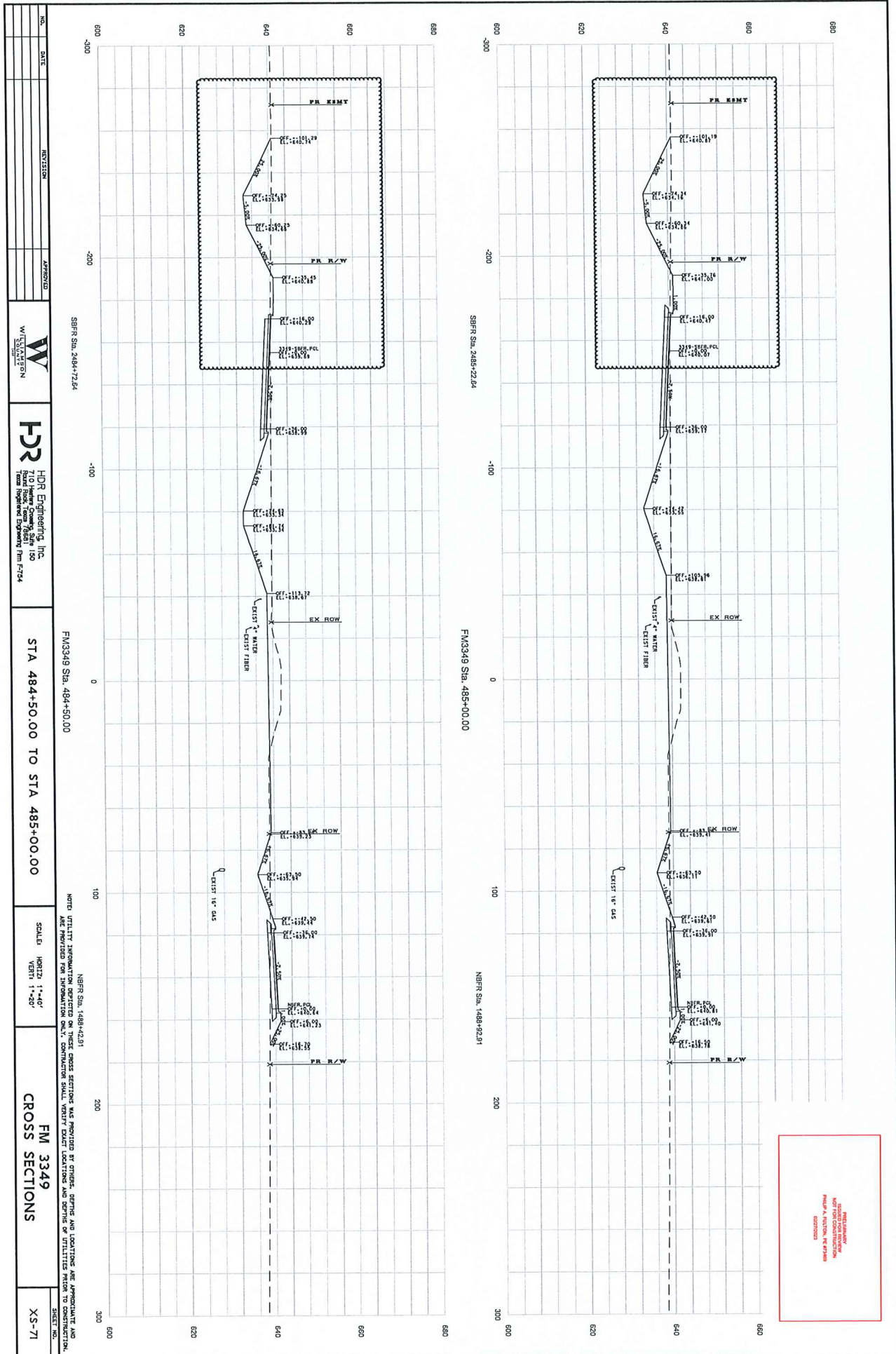


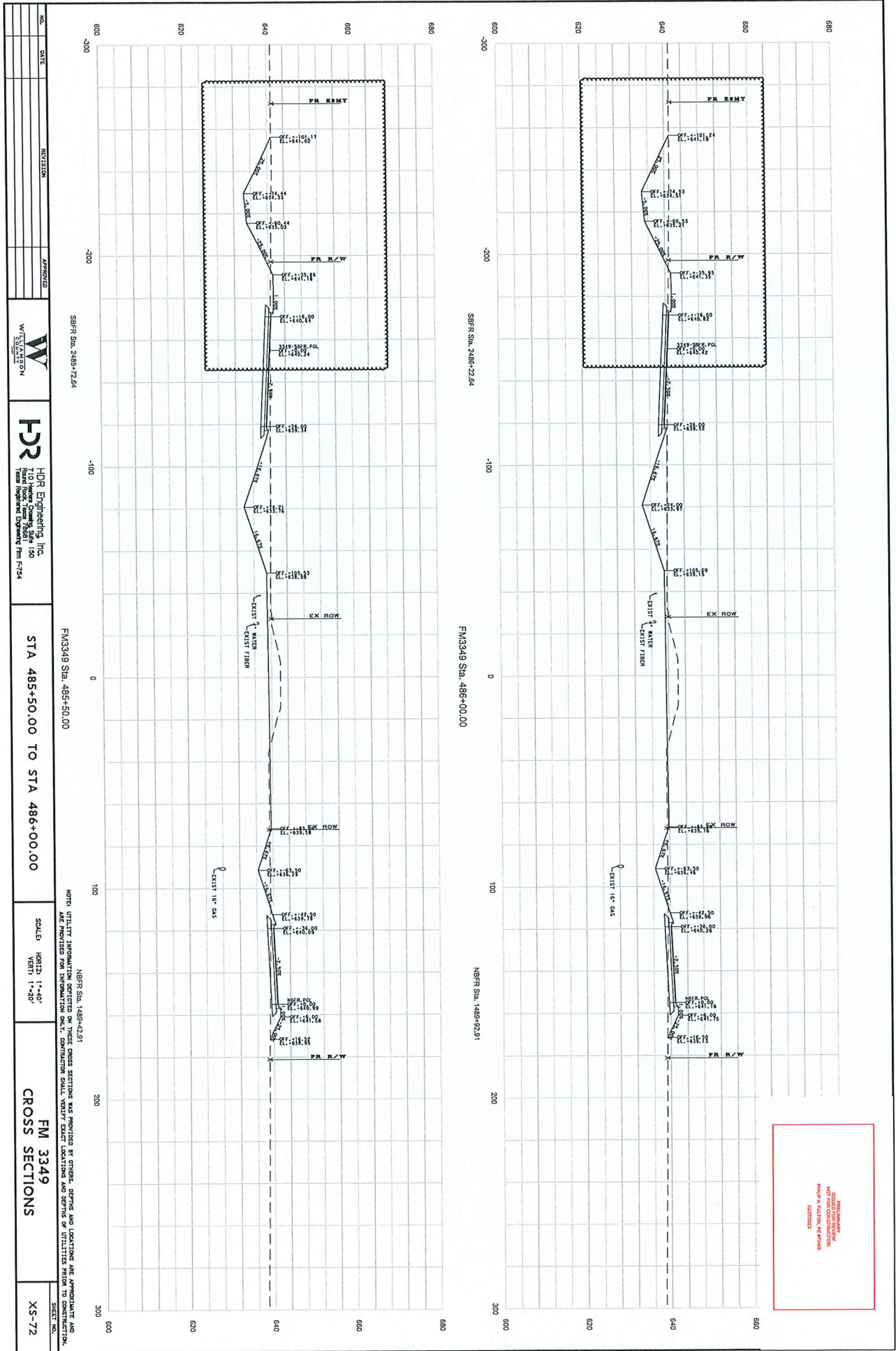


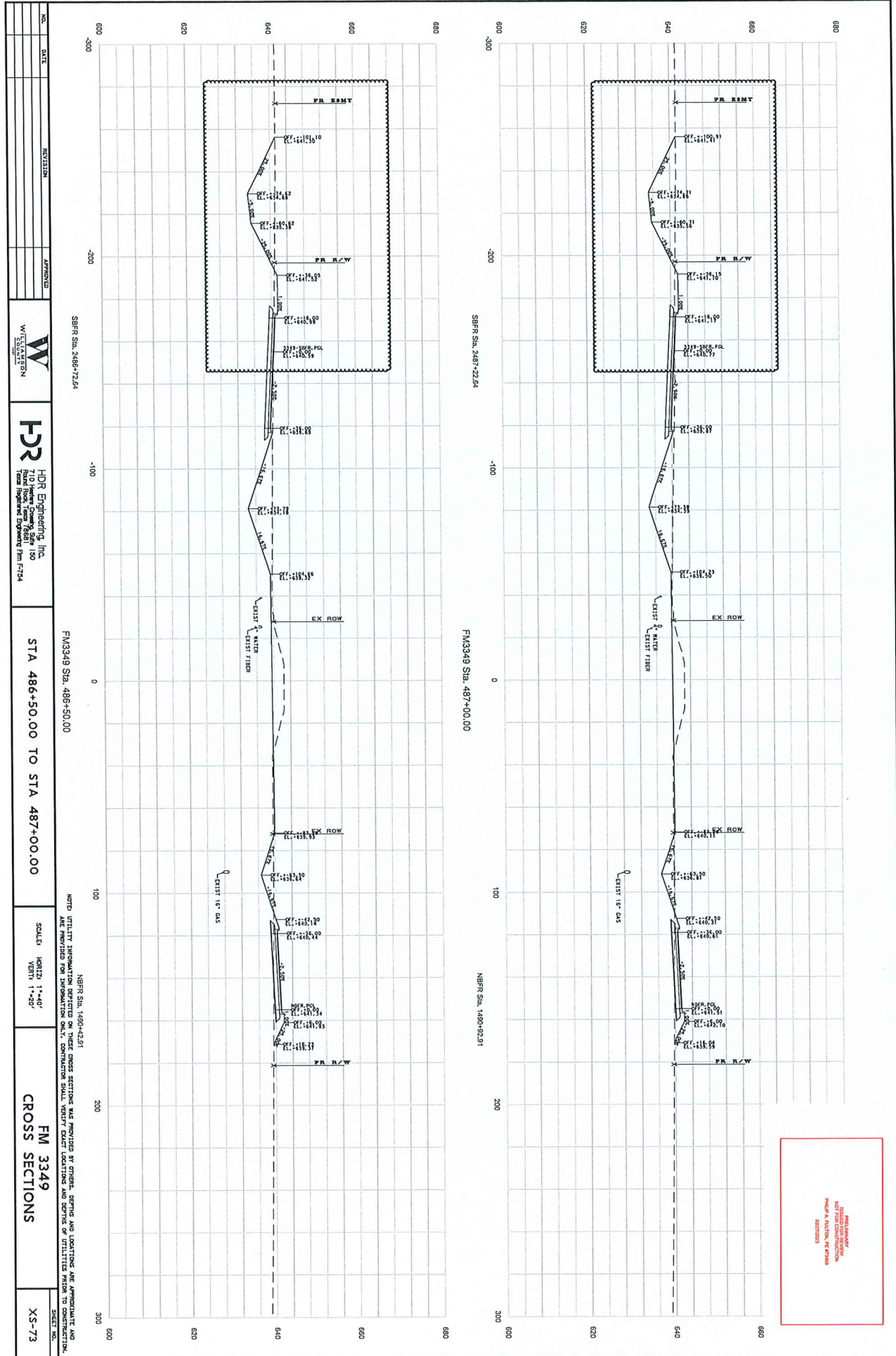


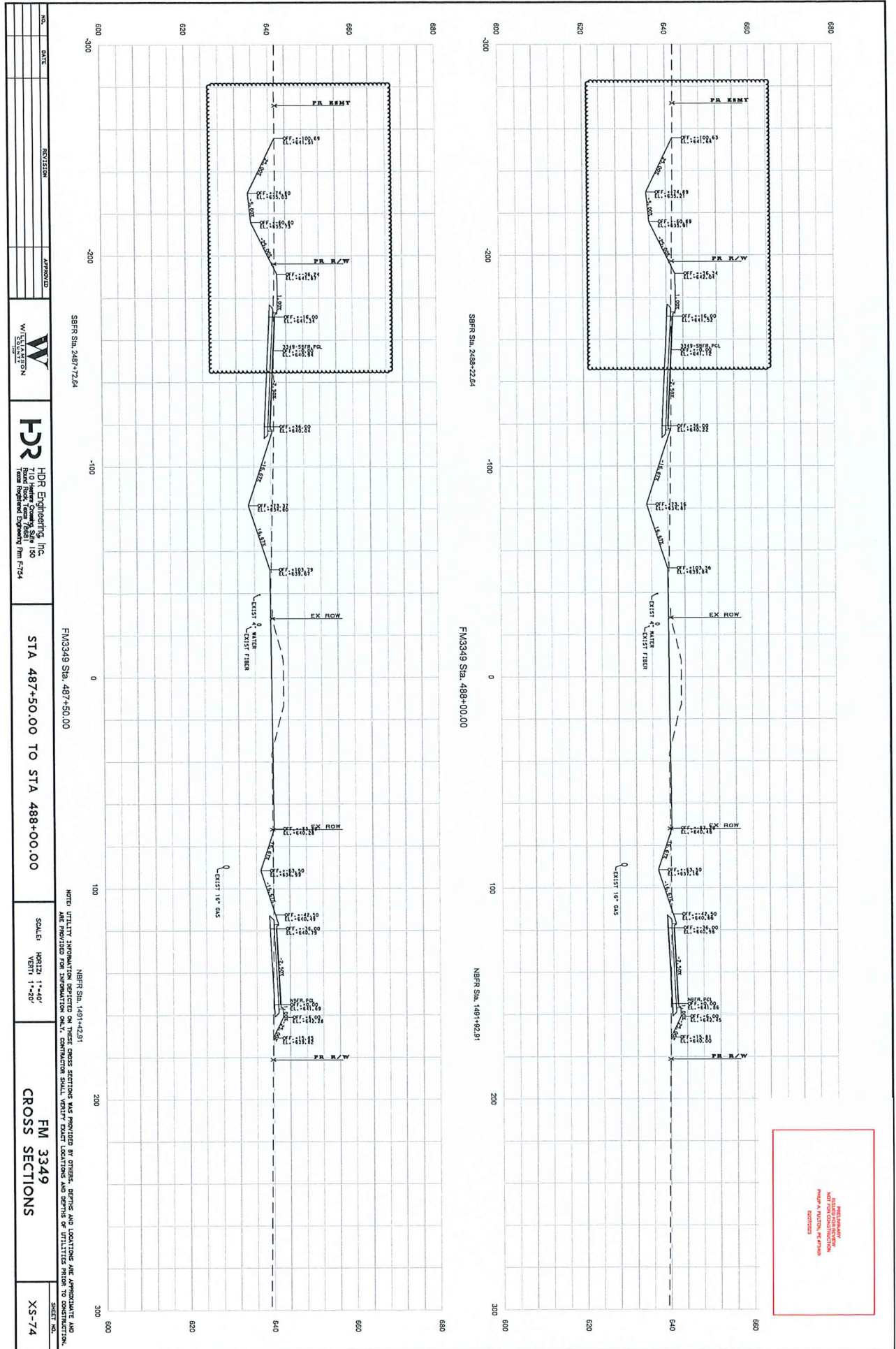


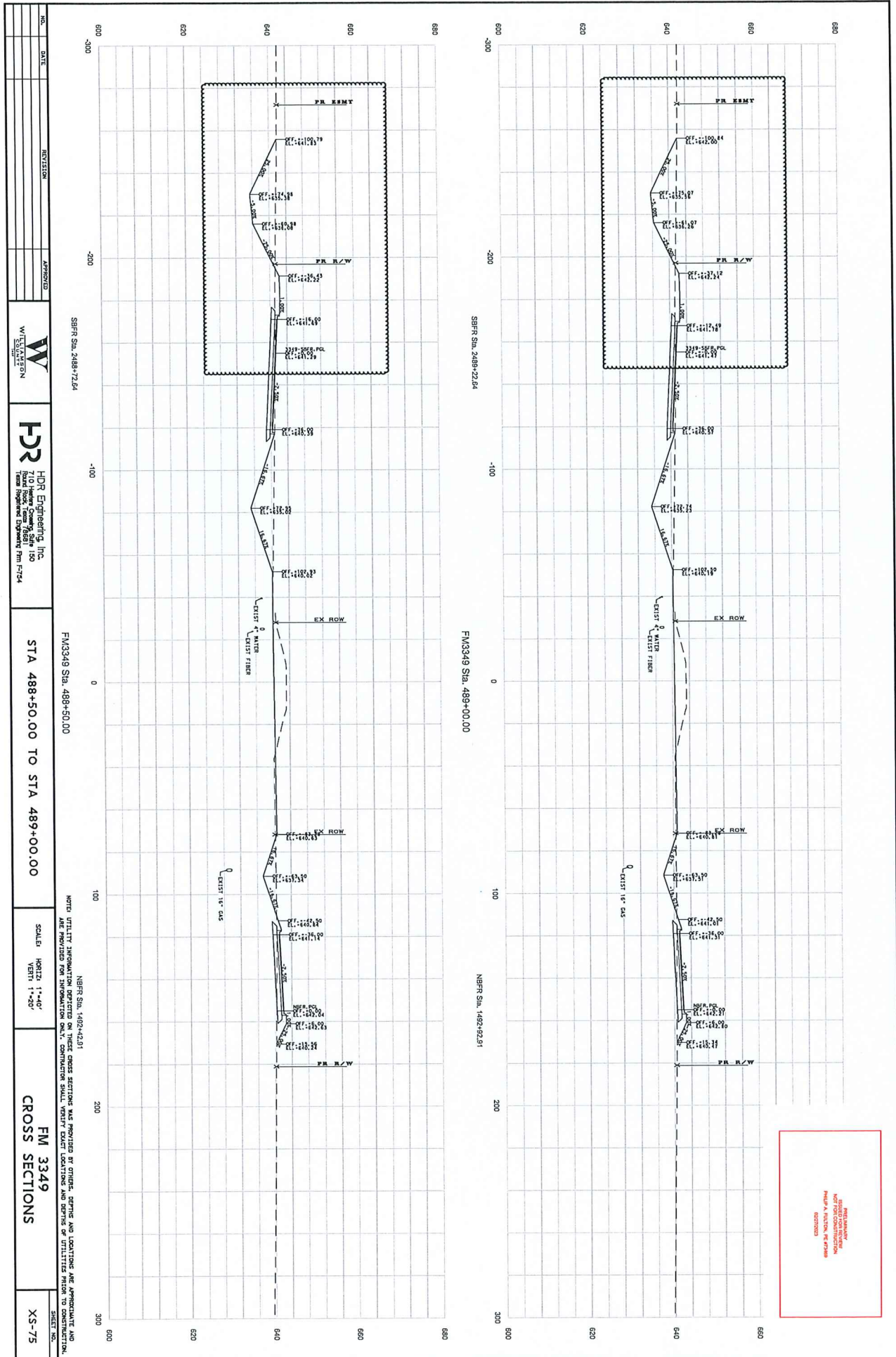


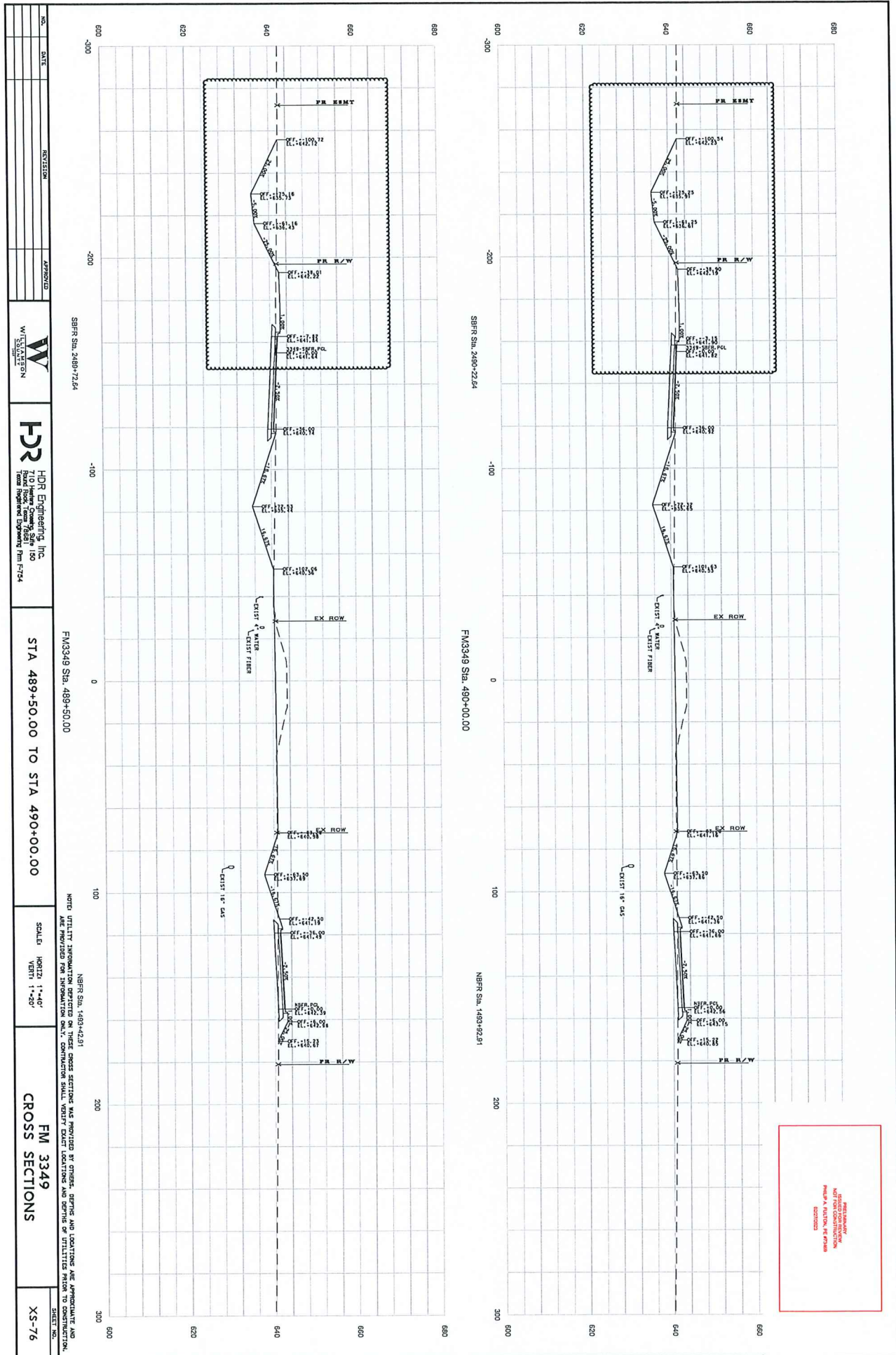


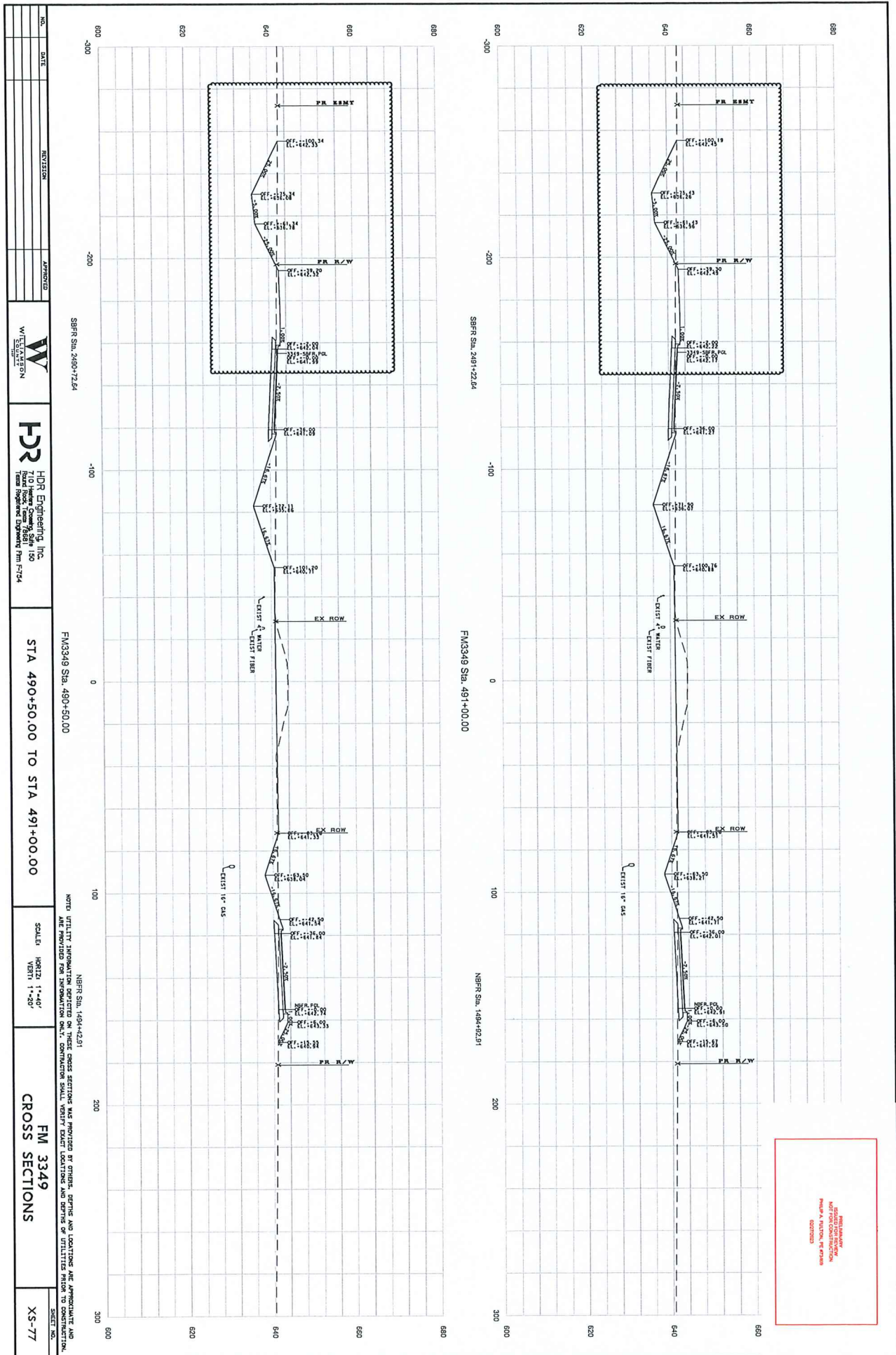


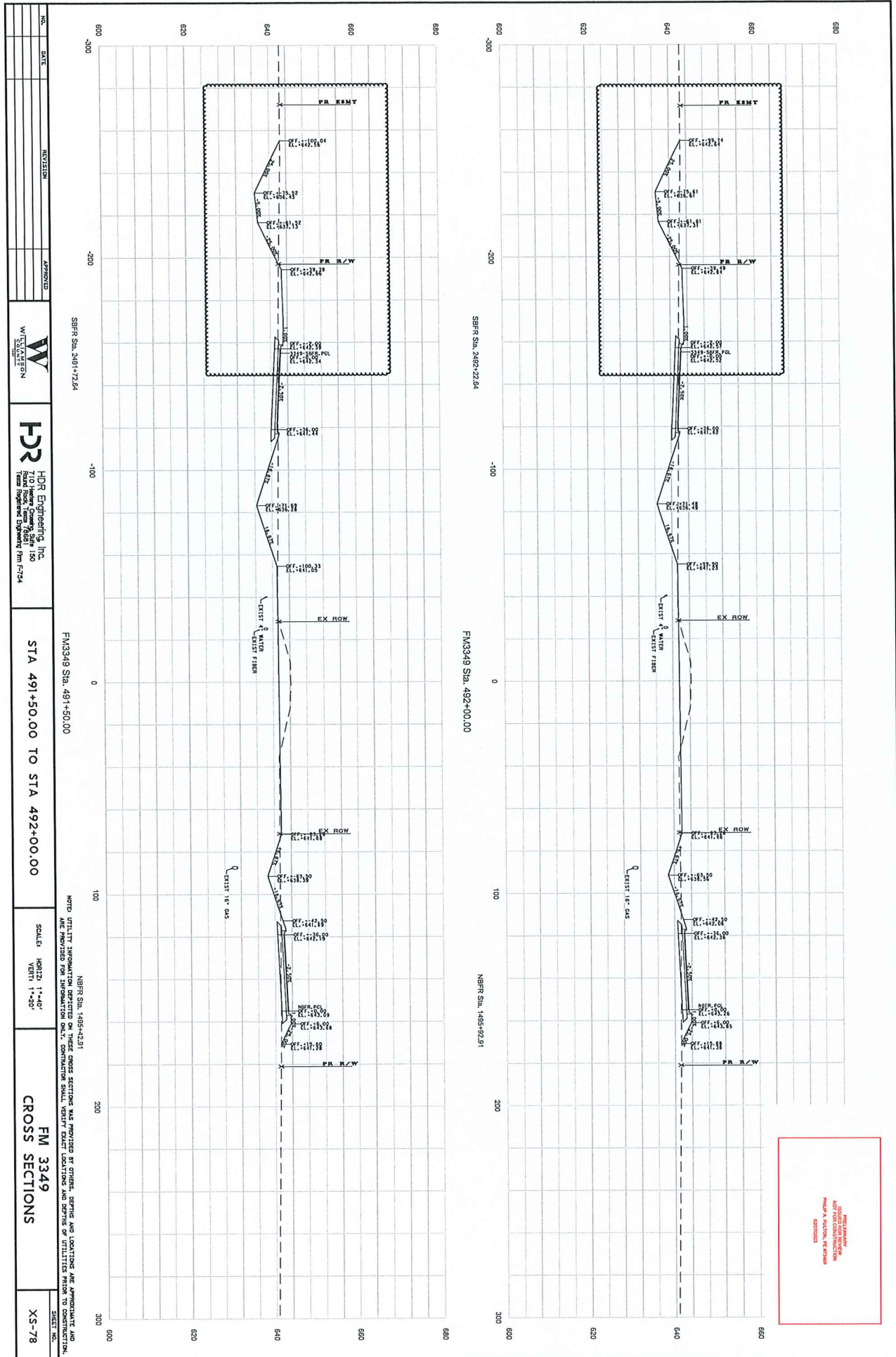


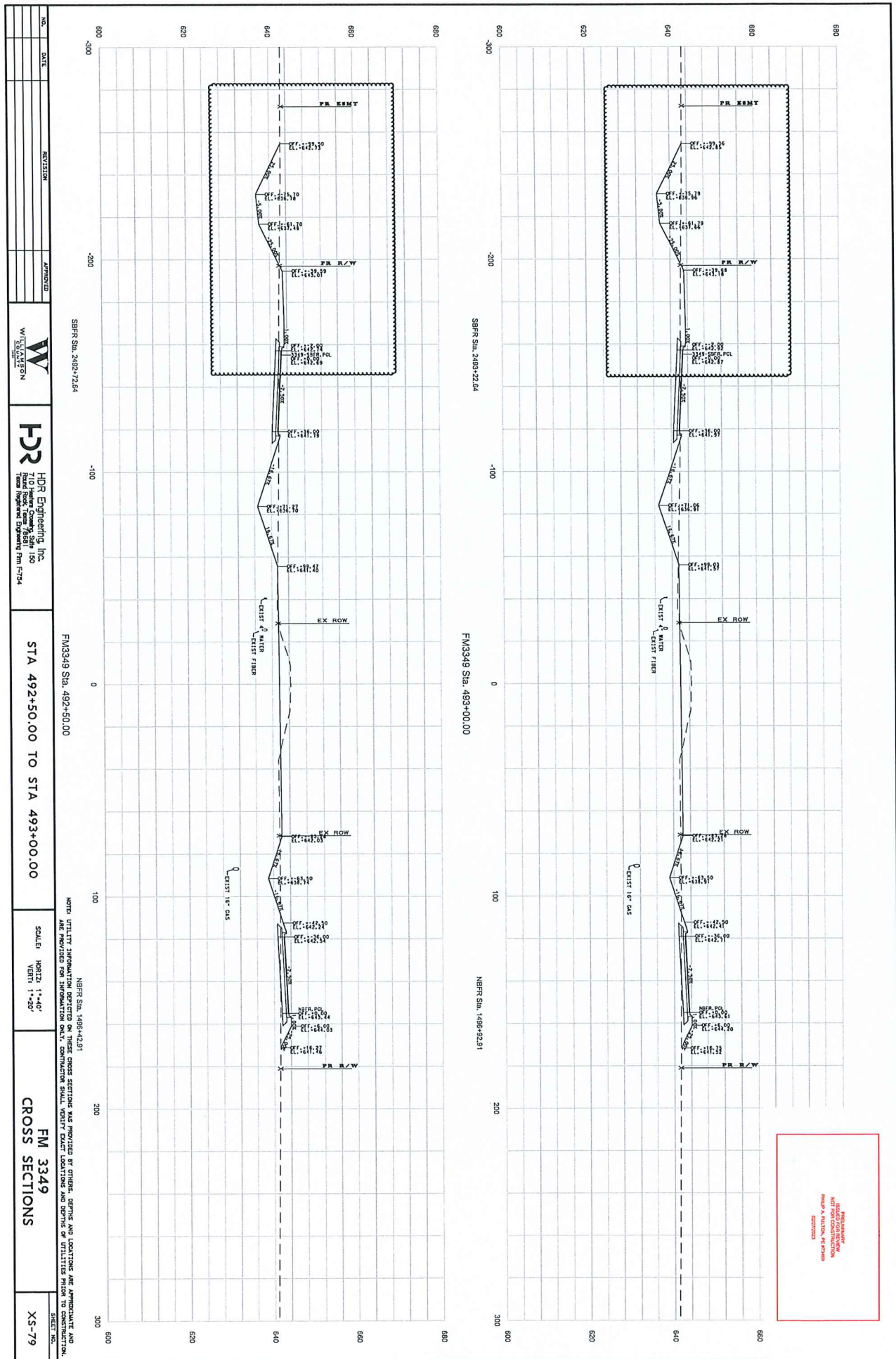


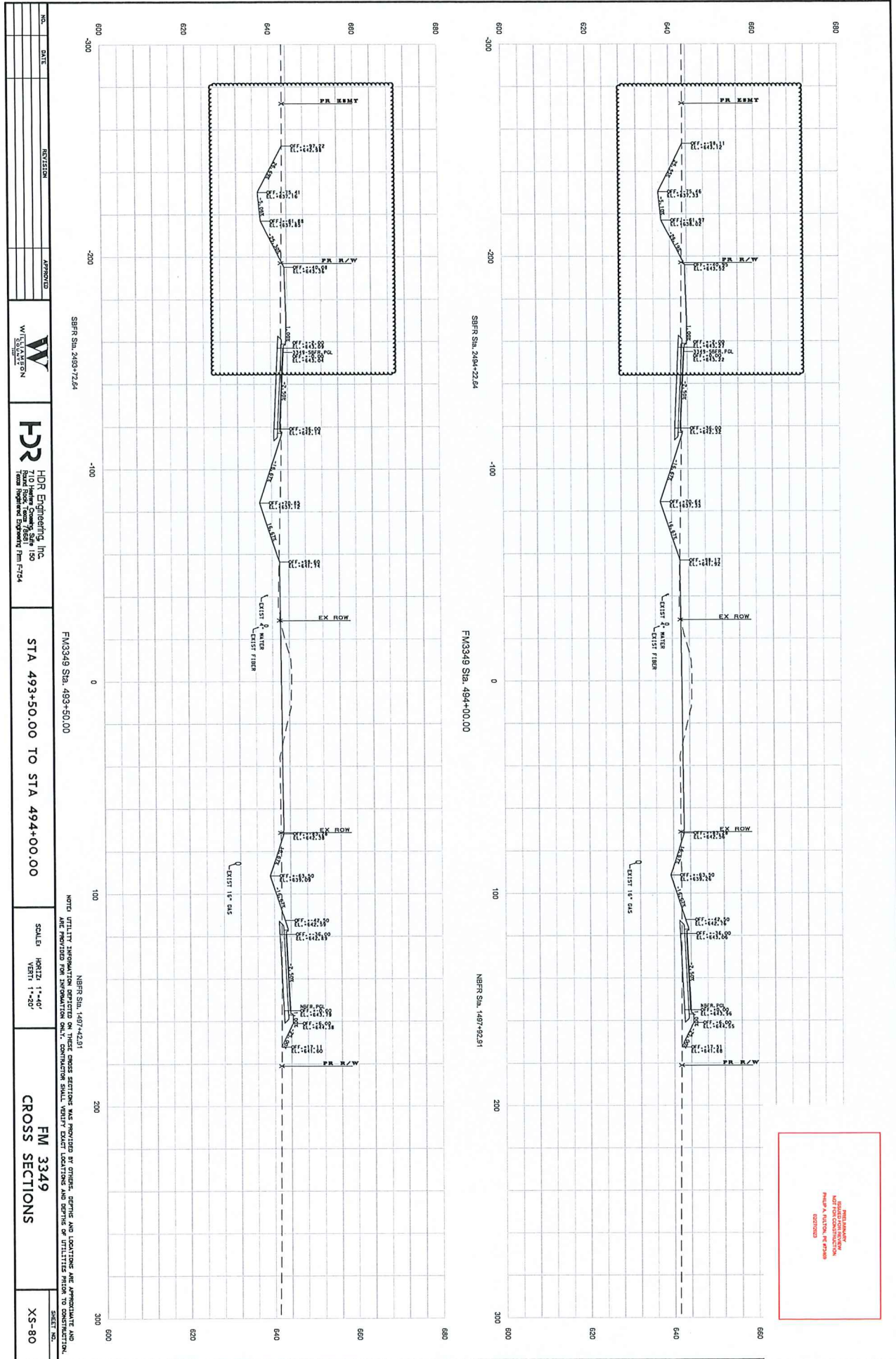


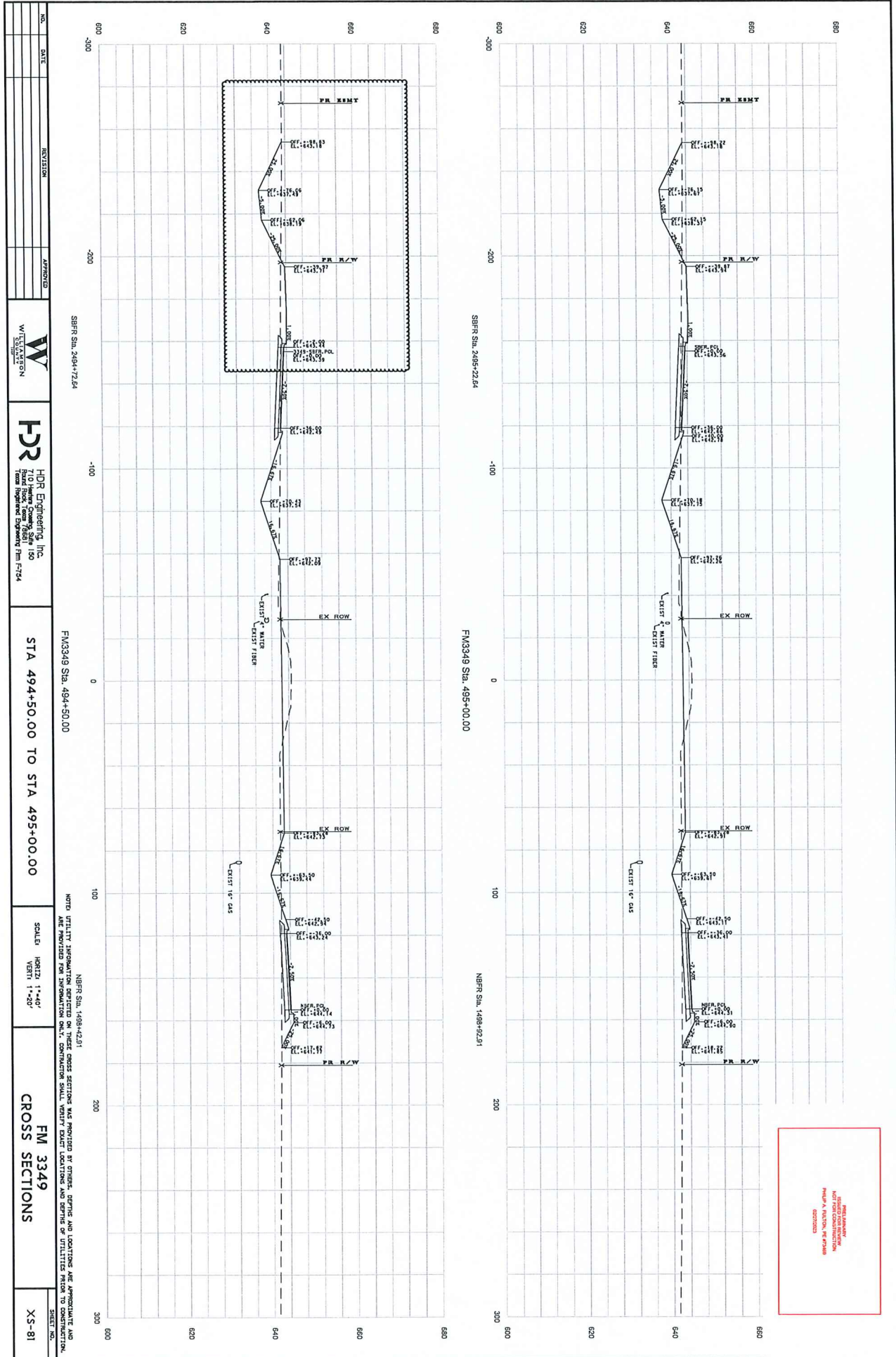












NO.	DATE	REVISION	APPROVED
1			
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HDR HDR Engineering, Inc.
 710 Hunter County State Rd
 P.O. Box 10881
 Hunt County, Texas 75641-1081
 Phone: 281-483-7734
 Fax: 281-483-7734

STA 494+50.00 TO STA 495+00.00

SCALE
 HORIZ. 1"=40'
 VERT. 1"=20'

FM 3349
 CROSS SECTIONS

XS-81