

House Keeping

Section 7.2.1

O&M

H-1368-D

DATE	BY	REVISION
10/27/54		CD 864-1-34
11/14/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34
12/1/54		CD 864-1-34

Code 987.0
MAPING 8/27

STATE OF TEXAS
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

INDEX OF SHEETS

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PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT
STATE PROJECT
CD 864-1-34
HIDALGO COUNTY
FM 494
NET LENGTH OF PROJECT = 33,163.89 FT = 6.280 MI

EWO#1 Inlet (Ty C)
FC + SA #1 Inlet (Ty CC)
(mod) + (Ty C Inlet)

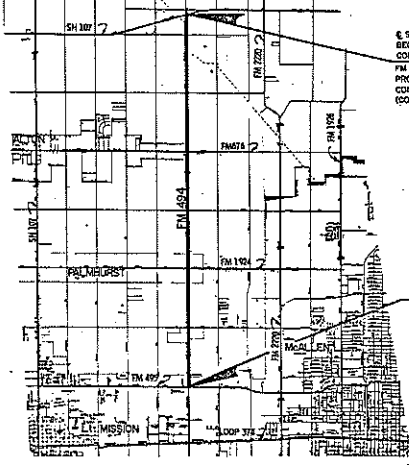
Done
11/14/54
KM
7669
18

LIMITS: FROM SH 107 S. TO FM 495
WIDENING, GRADING, LIME TREAT SUBGRADE
FLEXBASE, ASPH. STAB. BASE & ASPH. CONC. PAVT.

FINAL

TRAFFIC SIGNALS, BARRICADES, ETC.

SEE ITEM 7, SPECIFICATION ITEM 502,
SPECIAL PROVISION - DETOURS, BARRICADES,
WORKING SIGNS, SEQUENCE OF WORK, ETC.,
AND SUGGESTED TRAFFIC CONTROL PLAN.
TYPE 111 (C) BARRICADES WITH SIGNS CD-1,
CD-2, CD-4, CD-5, CD-1A, AND CD-1B
OR CD-1C SHALL BE LOCATED AT ENDS OF THE
PROJECT.
ADDITIONAL BARRICADES AND SIGNS SHALL BE
USED TO DIRECT TRAFFIC AND PROTECT THE
WORK IN THE IMMEDIATE VICINITY OF THE
OPERATION AS DIRECTED BY THE ENGINEER.
SIGNS CD-1B AND CD-2 SHALL BE ERRECTED
AT ALL CONNECTING ROADS. TYPE 111 (C)
BARRICADES MAY CONSIST OF THE PANEL ON
EACH SIDE OF THE PAVEMENT WIDE THE
RIGHT OF WAY IS TOO NARROW TO ALLOW
THE PLACING OF TWO PANELS.
SIGNS CD-1B & CD-1C SHALL BE ERRECTED
AS DIRECTED BY THE ENGINEER.



E STA. 6+83.07
BEGIN PROJECT CD 864-1-34
CONTROL 864-1-34
FM 494 E STA. 6+83.07
PROJECT R2 1823
CONTROL 864-1-34
(COMPLETED)

E STA. 339+40.0
END PROJECT CD 864-1-34
CONTROL 864-1-34
E STA. 339+40.0
PROJECT R-864-1-4
CONTROL 864-1-4
(CONTROL, COMPLETED)

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

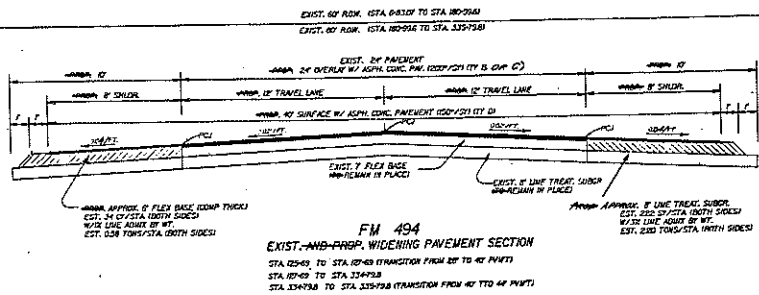
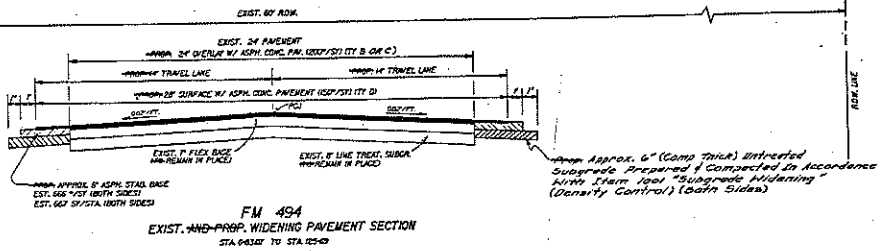
EQUATIONS:
STA. 13+27.96 (861) STA. 14+23.70 (862) = 77.04'
NO EXCEPTIONS

LAYOUT SCALE 1 IN. = 3840 FT.

SPECIFICATIONS ADOPTED BY THE STATE DEPARTMENT OF HWYS & PUBL. TRANS.
SEPTEMBER 1, 1952 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS.
SHALL GOVERN ON THIS PROJECT. SPECIAL LABEL PROVISIONS FOR STATE PROJECTS 800-011

DESIGNED BY <i>J. L. ...</i> DISTRICT DESIGN ENGINEER	CHECKED BY <i>...</i> STATE RESIDENT ENGINEER	APPROVED BY <i>...</i> DISTRICT ENGINEER
DATE 11/14/54		

18
HIDALGO COUNTY
CD 864-1-34
PROJ. NO. CD 864-1-34
DATE ACCEPTED
11/14/54

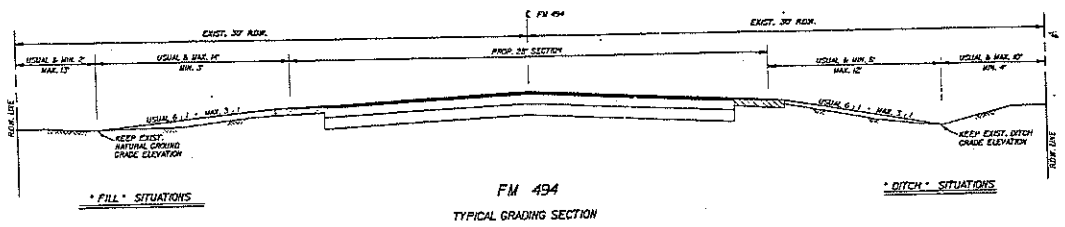


NOTE:
THIS IS ONE SECTION ON TYPICAL SECTIONS FOR ITEM 819
FLEX BASE IS SEPARATE FROM LINE WHICH IS NOT REQUIRED TO MEET
PA AND TRAVEL REQUIREMENTS ACCORD TO CONTRACTOR'S EXPERTISE.
PCI - DENOTES PERMISSIBLE CONSTRUCTION JOINT

TYPICAL SECTIONS

SHEET 1 OF 3 SHEETS

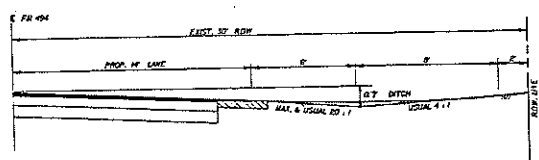
REV	DATE	BY	CHKD	DESCRIPTION
1				ISSUED
2				REVISED
3				REVISED
4				REVISED
5				REVISED
6				REVISED
7				REVISED
8				REVISED
9				REVISED
10				REVISED



* FILL * SITUATIONS

* DITCH * SITUATIONS

FM 494
TYPICAL GRADING SECTION



* CUT * SITUATIONS
60'-00" - 61'-00" (LT. SIDE)

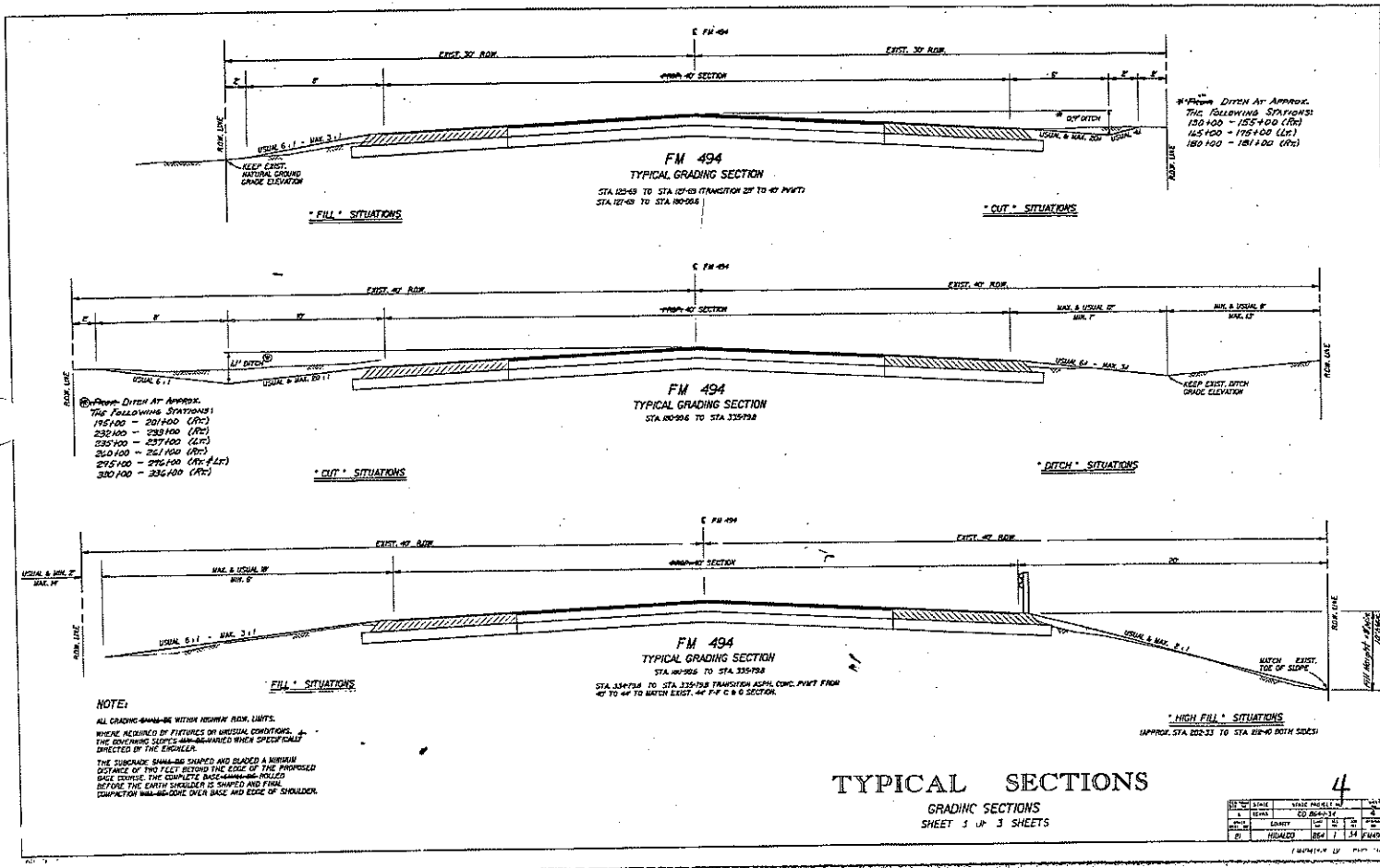
FM 494
TYPICAL GRADING SECTION

NOTE:
ALL GRADING SHALL BE WITHIN HIGHWAY ROW LIMITS.
WHEN REQUIRED BY PARTICULAR UNUSUAL CONDITIONS,
THE FOLLOWING ISSUES SHALL BE TAKEN INTO SPECIFICALLY
DIRECTED BY THE ENGINEER.
THE DRAINAGE SHALL BE SHAPED AND BLENDED A MINIMUM
DISTANCE OF TWO FEET BEYOND THE EDGE OF THE UNPAVED
BASE COURSE. THE COMPLETE BASE COURSE SHALL BE FOLLO
BEFORE THE LANCH SHOULDER IS SHAPED AND FINAL
COMPACTION SHALL BE DONE OVER BASE AND EDGE OF SHOULDER.

TYPICAL SECTIONS

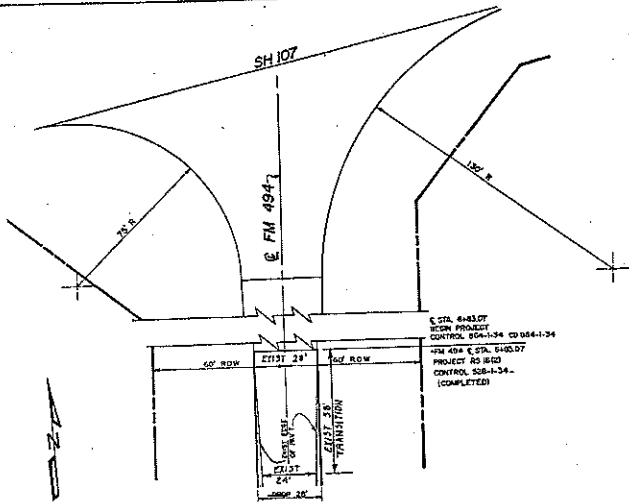
STA 6+83.07 TO STA 125-69
GRADING SECTIONS
SHEET 2 OF 3 SHEETS

DATE	PROJECT NO.	NO.
BY	CD #	
CHECKED	DATE	
APPROVED	DATE	

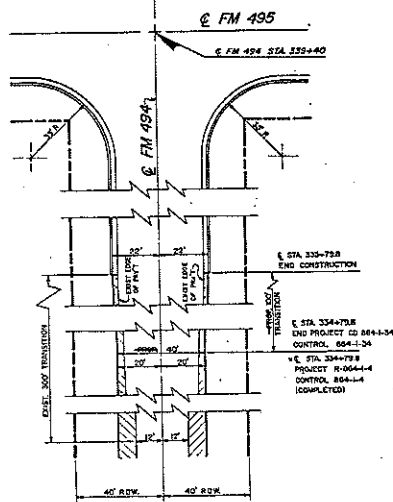


TYPICAL SECTIONS
 GRADING SECTIONS
 SHEET 5 OF 3 SHEETS

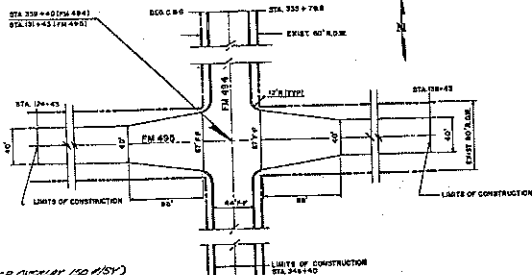
NO.	DATE	BY	CHKD.	APP'D.
1	10/1/00	J. D. BERRY	J. D. BERRY	J. D. BERRY
2	10/1/00	J. D. BERRY	J. D. BERRY	J. D. BERRY
3	10/1/00	J. D. BERRY	J. D. BERRY	J. D. BERRY
4	10/1/00	J. D. BERRY	J. D. BERRY	J. D. BERRY



INTERSECTION AT SH 107



INTERSECTION AT FM 495

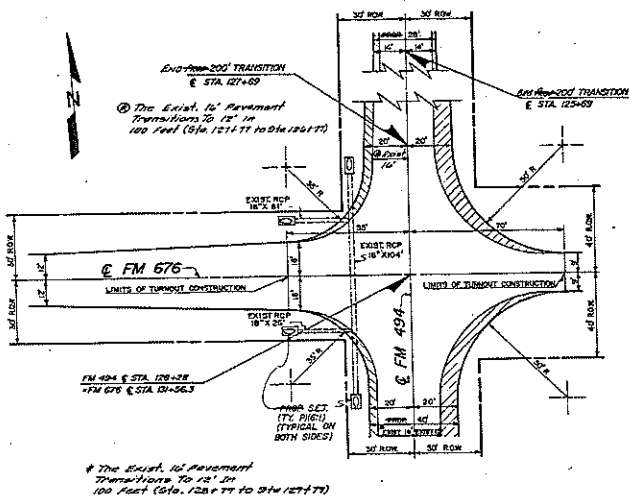


(SEE OVERLAY 100-151)
INTERSECTION OF FM 495 AND FM 494
SCALE 1" = 80'

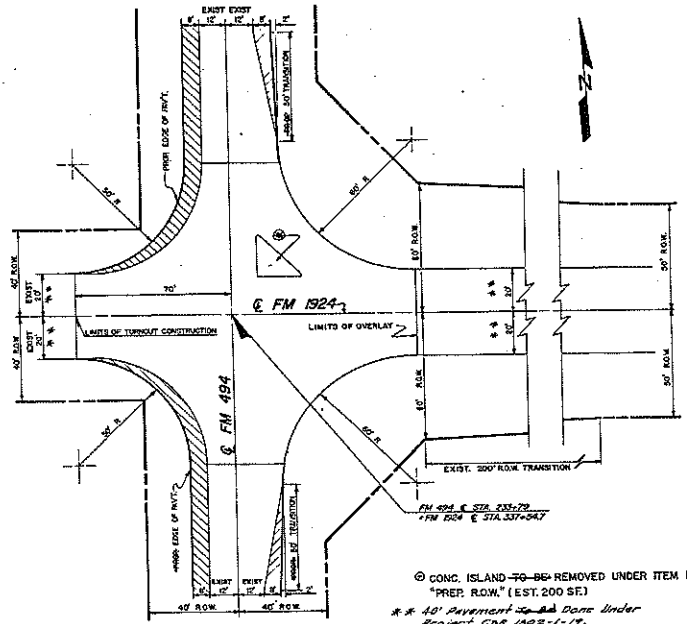
INTERSECTION DETAILS
SHEET 1 OF 2 SHEETS

AREA TO BE WIDENED

DATE	BY	SCALE	NO.
10/11/00	CB	1" = 80'	13
10/11/00	CB	1" = 80'	13
10/11/00	CB	1" = 80'	13
10/11/00	CB	1" = 80'	13



INTERSECTION AT FM 676



INTERSECTION AT FM 1924

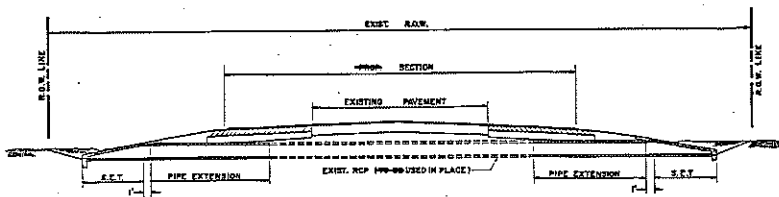
© CONC. ISLAND TO BE REMOVED UNDER ITEM 100 "PREP. R.O.W." (EST. 200 SF)
 ** 10' Pavement to be Done Under Project COR 1503-1-17. Details to be Worked out on the Field by The Engineer.

INTERSECTION DETAILS
 SHEET 2 OF 2 SHEETS

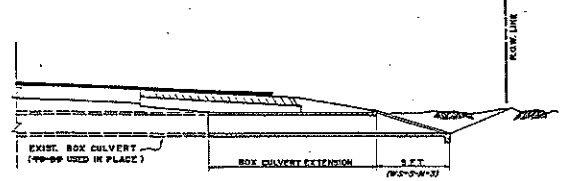
▨ AREA TO BE WIDENED

SCALE: 1" = 20'

DATE	STATE	PROJECT NO.	DATE
11/21	TX	CD 282-1-36	11/21
BY	DRY	DATE	DATE
ST	10/21/05	11/21/05	11/21/05



TYPICAL PIPE CULVERT SECTION



TYPICAL BOX CULVERT SECTION

STATION	EXISTING CULV. SIZE	CULVERT EXTENSION	CULVERT REMOVAL	STRENGTH	SAFETY FACTOR (TYPE)				INLET		GRADES		CLEARANCE STRUCTURE (EA)	M.S.P. LOCATION	H.B.P. (L.P.)	TERR. ANCH. SECTION (EA)	DEL. B. OR. WK. (M-FEET) (EA)	POSTS 1/2 LES. (EA)	SIGN (M-FEET) (EA)	
					10' RCP (10' RCP)	12' RCP (12' RCP)	14' RCP (14' RCP)	16' RCP (16' RCP)	18' RCP (18' RCP)	20' RCP (20' RCP)	1" (EA)	2" (EA)								1" (EA)	2" (EA)
13+00	3'x2'x45" BOX CULV.	LEFT 1.0	RIGHT 1.0	5.2	11.0	1.0														
23+10	3'x2'x44" BOX CULV.	LEFT 1.0	RIGHT 1.0	6.7	7.0	1.0							1.0	STA. 22+80 TO STA. 24+10	150.0	2.0	8.0	4.0		
54+57	3'x2'x46" BOX CULV.	LEFT 1.0	RIGHT 1.0	4.0	4.0	1.0							1.0	STA. 52+55 TO STA. 53+00	125.0	2.0	8.0	4.0		
72+08	3'x2'x47" BOX CULV.	LEFT 1.0	RIGHT 1.0	3.0	4.0				1.0		1.0		1.0							
81+89	3'x2'x48" BOX CULV.	LEFT 1.0	RIGHT 1.0	3.7	8.0	1.0							1.0							
114+89	3'x2'x45" BOX CULV.	LEFT 1.0	RIGHT 1.0	6.7	8.0	1.0							1.0							
151+14	3'x2'x45" BOX CULV.	LEFT 1.0	RIGHT 1.0	1.7	1.0	1.0							1.0	STA. 151+39 TO STA. 152+39	100.0	2.0	8.0	4.0	2.0	
193+66	18" RCP	LEFT 1.0	RIGHT 1.0	2.5	3.0				1.0		2.0		1.0							
203+06	18" RCP	LEFT 1.0	RIGHT 1.0	8.0	2.0				1.0				1.0							
226+11	18" RCP	FOR INFORMATION		TOTALS SEE SHEET 15																
227+85	24" RCP	FOR INFORMATION		TOTALS SEE SHEET 15																
SHEET TOTALS		1.0	16.0	2.0	12.0	11.0	9.0	1.0	2.0	1.0	1.0	2.0	6.0	375.0	6.0	24.0	12.0	2.0		

* Pipe Culvert Work Includes 1/4" (See Typical Pipe Culvert Section Above)
 @ Removal of Pavement of Exist. Road, Box & Pipe Structures Which Include Removal of Exist. Nuthooks & Rebarwork which will be Paid For Directly, But Shall be Considered Subsidiary Work to The Item too

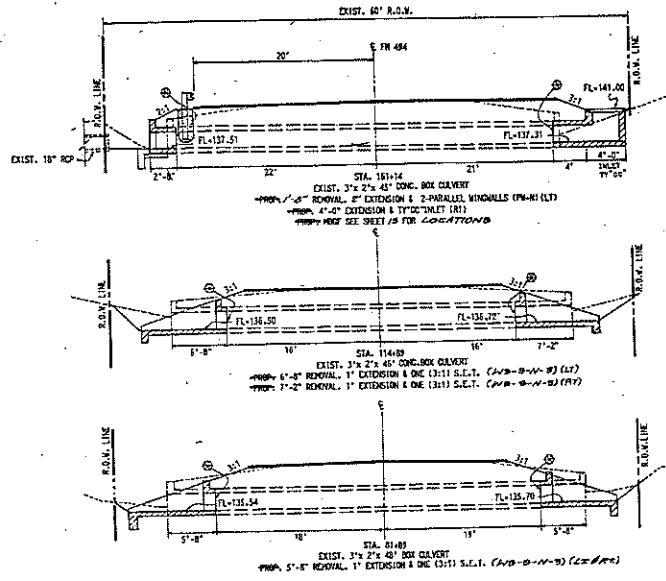
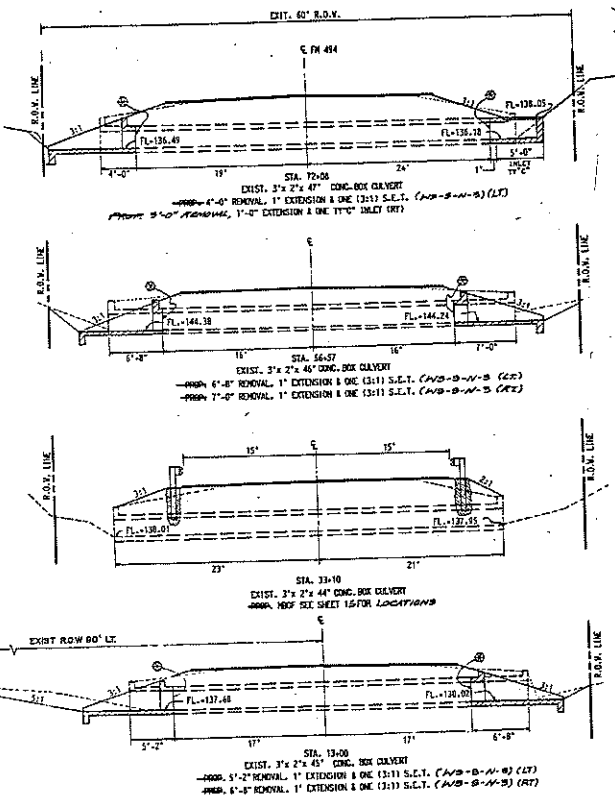
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION

**CROSS CULVERT
DETAILS**

15

SHEET 1 OF 3 SHEETS

NO. 10	PROJECT NO.	LINE NO.	SHEET
	CD 804-1-34		6
DATE	COUNTY	GENERAL SECT.	SECTION
2/1	TEXAS	HIDALGO	BLK. 1, 34



SCALE:
 HOR: 1" = 5'
 VER: 1" = 5'

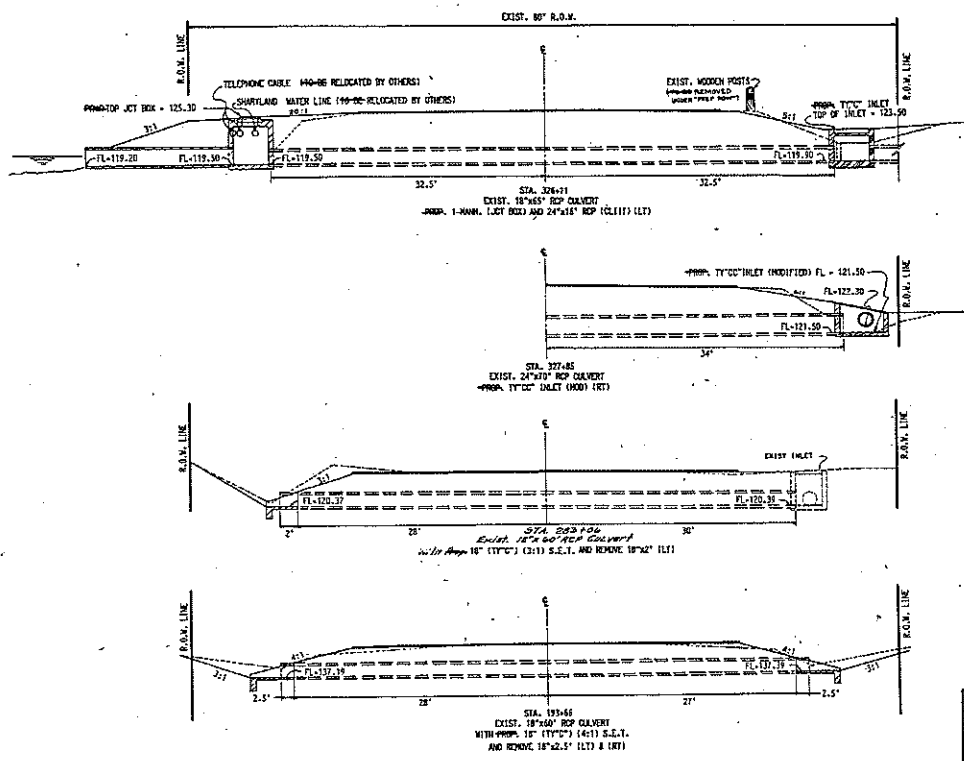
Ⓢ BREAK-BACK LINE (REMOVE EXISTING CULVERT TO 1'-8" BEYOND PROP. FACE OF WALL OR AS SHOWN THIS SHEET) THE REMOVAL OF THE EXISTING STRUCTURE TO THE BREAK-BACK LINE SHOWN ABOVE MUST BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY WORK TO THE ITEM SHOWN.

STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

CROSS CULVERT DETAILS

SHEET 2 OF 3 SHEETS

FIG. NO.	PROJECT NO.	FILE NO.	SHEET
6	DD 864-1-34		16
DRAWN BY	DATE	CHECKED BY	DATE
21	1/24/53	802	1/24/53
BY	TEAM	REVISION	NO.

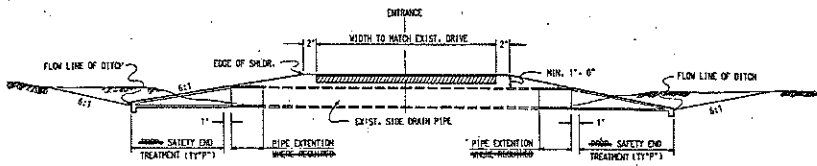


SCALE:
 HOR.: 1" = 5'
 VER.: 1" = 5'

STATE DEPARTMENT OF HIGHWAYS
 AND PUBLIC TRANSPORTATION

**CROSS
 CULVERT DETAILS
 SHEET 3 OF 3 SHEETS**

FEED NO.	PROJECT NO.	FILE NO.	SHEET
6	CD 864-1-34		11
CONTRACT	DATE	CONTRACT	CONTRACT
27 TEXAS	HIDALGO	864	1 34 FM424

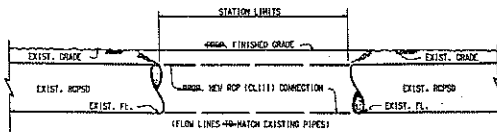


TYPICAL SIDE DRAIN SECTION

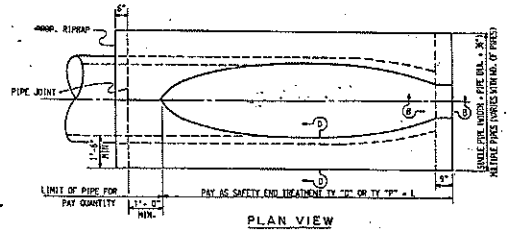
TABLE OF SIDE DRAIN CONNECTIONS

STATION LIMITS	DESCRIPTION	FLOW LINE ELEVATIONS	
		BACK STATION	END STATION
254+00-264+25	FROM 18\"/>		

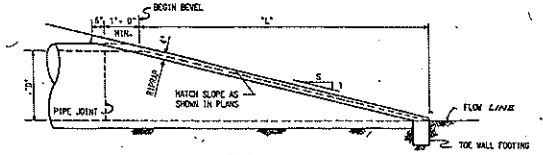
TYPICAL PIPE SIDE DRAIN CONNECTION



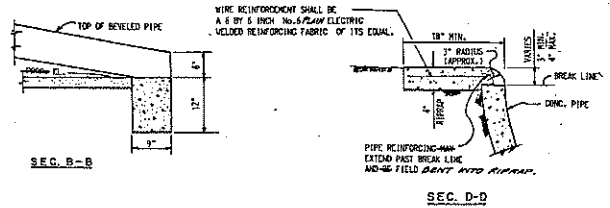
NOTE:
ALL EXCAVATION AND BACKFILL REQUIRED AT ALL PIPE
SIDE DRAIN CONNECTIONS, ADJUSTMENTS AND/OR
EXTENSIONS SHALL BE PAID FOR DIRECTLY BY OWNER
AND BE SUBSIDIARY TO THE BID ITEMS INVOLVED AND IN
ACCORDANCE WITH ITEM 400 "STRUCTURAL EXCAVATION".
THE FINISHED GRADE WILL MATCH THE EXISTING
AND/OR #000000 SLOPES.



PLAN VIEW



ELEVATION
SAFETY END TREATMENT - TYPE "C" OR "P."



SEC. B-B

SEC. D-D

SAFETY END TREATMENT PIPE LENGTHS

PIPE DIA.	75'	81'	87'	93'
18"	75'	81'	87'	93'
24"	75'	81'	87'	93'
30"	75'	81'	87'	93'
36"	75'	81'	87'	93'
42"	75'	81'	87'	93'

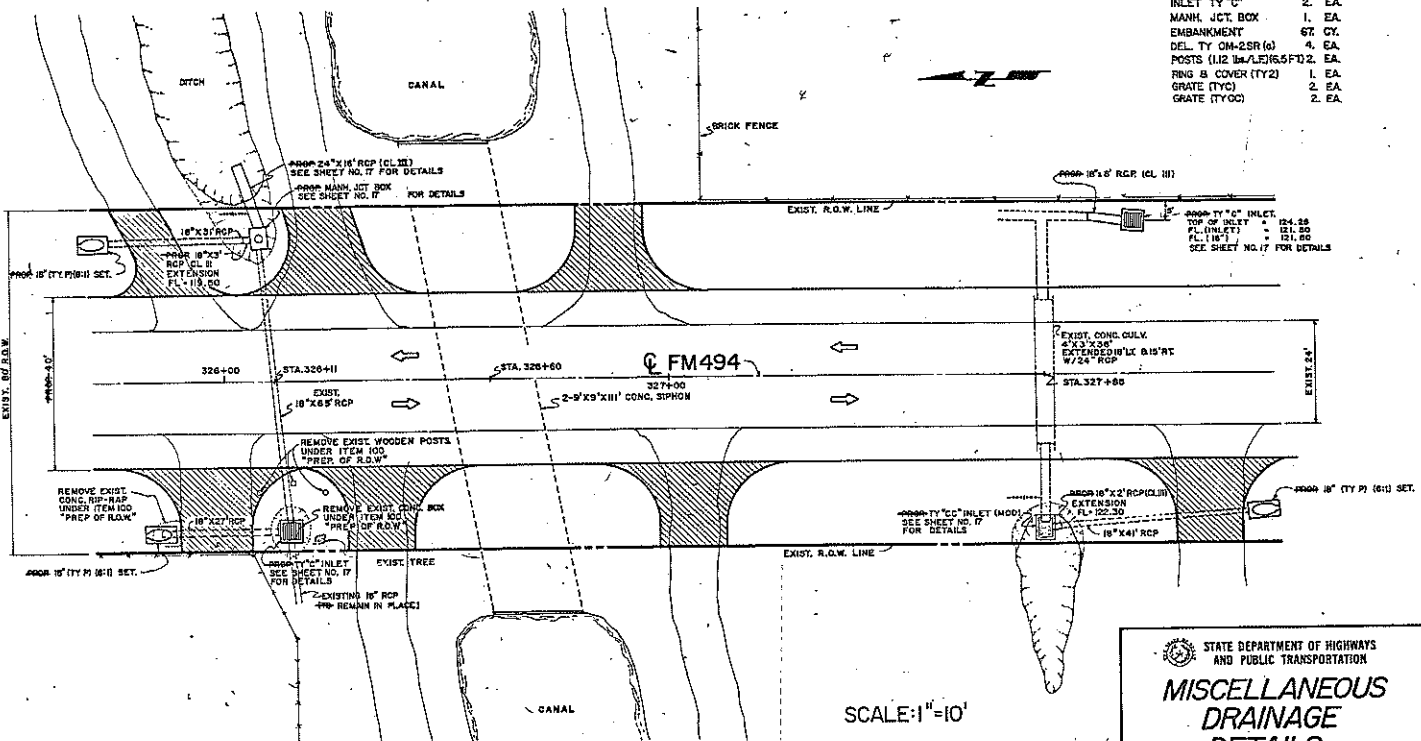
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION

SIDE DRAIN DETAIL
& CONNECTIONS 18

PROJ. NO.	CD 884-7-34	FILE NO.	18
COUNTY	TARRANT	DISTRICT	10
DATE	MAY 1964	DESIGNED BY	WJL
CHECKED BY	HICALED	DATE	5/24/64

SHEET TOTALS:

18" RCP (CL III)	13.0 LF.
24" RCP (CL III)	15.0 LF.
INLET TY "CC"(MOD)	1 EA.
INLET TY "C"	2 EA.
MANH. JCT. BOX	1 EA.
EMBANKMENT	67 CY.
DEL. TY OM-2SR (6)	4 EA.
POSTS (1/2 3/4" LF) 16.5FD2	2 EA.
RNG B COVER (TY2)	1 EA.
GRATE (TYO)	2 EA.
GRATE (TYOC)	2 EA.

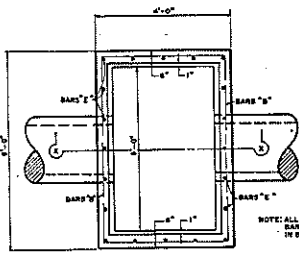


STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION

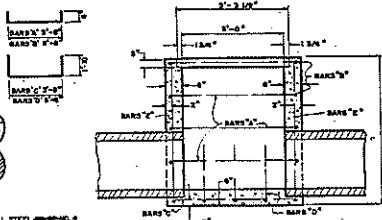
**MISCELLANEOUS
DRAINAGE
DETAILS** 19

FIG. NO.	PROJECT NO.	FILE NO.	SHEET
6	CD 864-1-34		19
DISTRICT	COUNTY	DRAWN BY	CHECKED BY
21 TEXAS	HIDALGO	864-1-34	FM 494

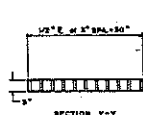
SCALE: 1" = 10'



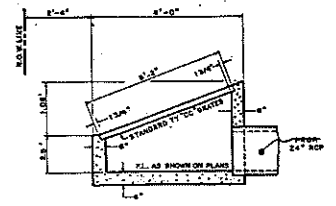
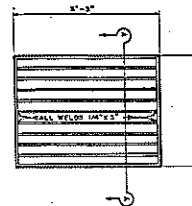
PLAN



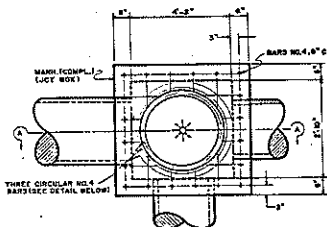
SECTION X-X
INLET TYPE "CC"



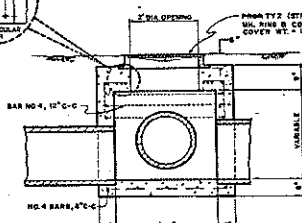
SECTION V-V
WELDED STEEL INLET GRATE



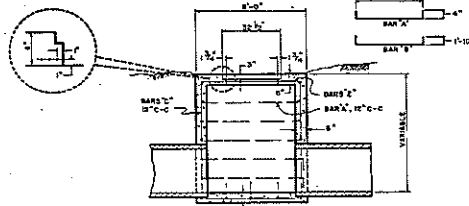
SECTION FOR INLET TY "CC" (MODIFIED)



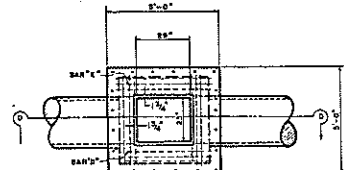
PLAN



SECTION A-A

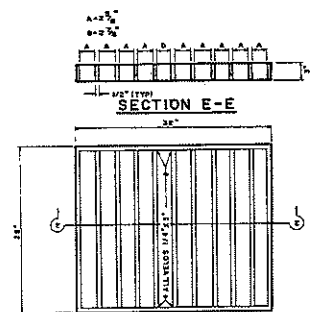


SECTION D-D
INLET TYPE "C"



TOP VIEW OF INLET

SHOWING TOP REINFORCEMENT
NOTE: ALL STEEL INCLUDING BARS
ON "E" SPACING IN BOTH
DIRECTIONS UNLESS OTHERWISE
NOTED.



PLAN
WELDED STEEL INLET GRATE

STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION

MANHOLE & INLET DETAILS

NOT TO SCALE 20

DESIGNED BY	CD 864-1-34	DATE	1-34
DRAWN BY	HIGALGO	CHECKED BY	1-34
PROJECT NO.	CD 864-1-34	FILE NO.	20
SHEET NO.	21	TOTAL SHEETS	24

STATE OF TEXAS
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION

**PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT**

FEDERAL AID PROJECT RS 1603

PLAN 121 - 148.75 FT.
PROPOSED 1 - 1.000 FT. x 1.000 FT. x 1.000 FT.
CROSS SECTIONS 1 1/2 - 1.000 FT. x 1.000 FT. x 1.000 FT.
CROSS SECTIONS 1 1/2 - 1.000 FT. x 1.000 FT. x 1.000 FT.
NET LENGTH OF PROJECT 12.498 STA. 5+00 TO STA. 17+99.75
HIDALGO COUNTY,
SH 97

LIMITS: FROM 2 MI. NORTH OF LP 374
TO 1/2 MI. NORTH OF LP 374

RECONSTR. GRADING, STRUCTURES, LINE TREATED SUBGRADE, FLEXIBLE BASE,
ASPH STAB BASE, ASPHALTIC CONCRETE PAVEMENT & SIGNING

STA. 399+00.00
END PROJECT RS 1603
CONTROL SECTION 47
STA. 399+00.00
PROJECT RS 16 03
CONTROL SECTION 14-34
(COMPLETED)

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23-26	PLAN AND PROFILE
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75-88	IRRIGATION STRUCTURE DETAILS
89-92	CONC BOX SIPHON DETAILS & SUGGESTED DETOUR
93-97	MULTIPLE BOX CULVERT DETAILS
98	MISC. IRRIGATION & DRAINAGE STRUCTURE
99	INLET DETAILS
100-102A	HEADWALL DETAILS (CONC. BOX)
101-103	ENTRANCE DETAILS FOR SIDEWALKS, PRIVATE DRIVES, CROSSOVERS, COMMERCIAL ENTRANCES AND SAFETY END TREAT.
104-106	TRAFFIC CONTROL SIGNALS
107	PAVEMENT MARKINGS
108-110	PAVEMENT MARKINGS
111	IPW (II)
112-136	SIGNING SUMMARIES LAYOUTS & DETAILS
137-138	RSD & CI
139-140	RSD & CI
141-142	RSD & CI
143-147	SIGNALS (I) THROUGH (V)
148-162	SCULPTURED LETTERS

TRAFFIC, DETOURS, BARRICADES, ETC.
See Item 7, General Provision Item 502, Special Provision
= Detour, Barricades, Warning Signs, Sequence Of Work, Detour, And Suggested Detour & Traffic Control Plan Sheets.
Type III(C) Barricades With Signs G101 - G103, G104, G105, G106, G107, G108, G109, G110, G111, G112, G113, G114, G115, G116, G117, G118, G119, G120, G121, G122, G123, G124, G125, G126, G127, G128, G129, G130, G131, G132, G133, G134, G135, G136, G137, G138, G139, G140, G141, G142, G143, G144, G145, G146, G147, G148, G149, G150, G151, G152, G153, G154, G155, G156, G157, G158, G159, G160, G161, G162, G163, G164, G165, G166, G167, G168, G169, G170, G171, G172, G173, G174, G175, G176, G177, G178, G179, G180, G181, G182, G183, G184, G185, G186, G187, G188, G189, G190, G191, G192, G193, G194, G195, G196, G197, G198, G199, G200, G201, G202, G203, G204, G205, G206, G207, G208, G209, G210, G211, G212, G213, G214, G215, G216, G217, G218, G219, G220, G221, G222, G223, G224, G225, G226, G227, G228, G229, G230, G231, G232, G233, G234, G235, G236, G237, G238, G239, G240, G241, G242, G243, G244, G245, G246, G247, G248, G249, G250, G251, G252, G253, G254, G255, G256, G257, G258, G259, G260, G261, G262, G263, G264, G265, G266, G267, G268, G269, G270, G271, G272, G273, G274, G275, G276, G277, G278, G279, G280, G281, G282, G283, G284, G285, G286, G287, G288, G289, G290, G291, G292, G293, G294, G295, G296, G297, G298, G299, G300, G301, G302, G303, G304, G305, G306, G307, G308, G309, G310, G311, G312, G313, G314, G315, G316, G317, G318, G319, G320, G321, G322, G323, G324, G325, G326, G327, G328, G329, G330, G331, G332, G333, G334, G335, G336, G337, G338, G339, G340, G341, G342, G343, G344, G345, G346, G347, G348, G349, G350, G351, G352, G353, G354, G355, G356, G357, G358, G359, G360, G361, G362, G363, G364, G365, G366, G367, G368, G369, G370, G371, G372, G373, G374, G375, G376, G377, G378, G379, G380, G381, G382, G383, G384, G385, G386, G387, G388, G389, G390, G391, G392, G393, G394, G395, G396, G397, G398, G399, G400, G401, G402, G403, G404, G405, G406, G407, G408, G409, G410, G411, G412, G413, G414, G415, G416, G417, G418, G419, G420, G421, G422, G423, G424, G425, G426, G427, G428, 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FINAL PLAN

7655
02



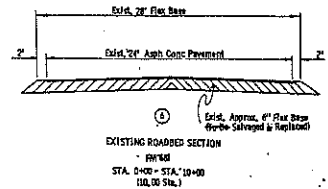
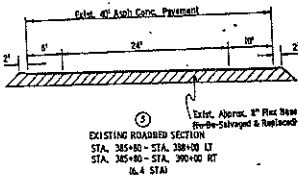
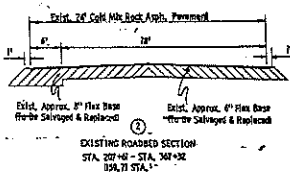
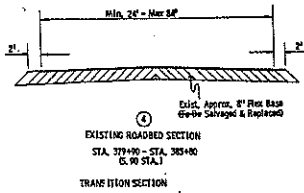
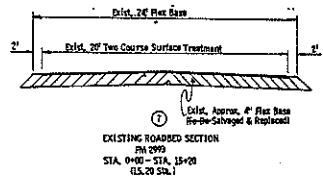
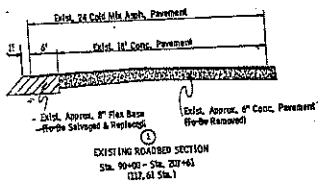
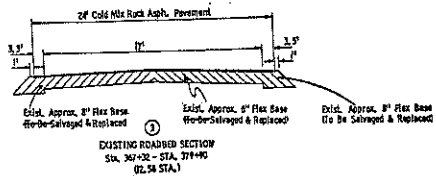
H-1332-D
No. 00

COUNTY OF HIDALGO
PLANS APPROVED BY:
Joseph S. Scurie
NAME TITLE DATE

CITY OF ALIQU
PLANS APPROVED BY:
Ramon de la Hoya *Edw. Alon* *edw. Alon*
NAME TITLE DATE

HCID 77 and HOWC & LD # 14
PLANS APPROVED BY:
V. B. B... *...* *...*
NAME TITLE DATE

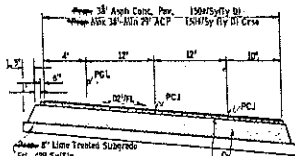
CITY OF MISSION
PLANS APPROVED BY:



TYPICAL SECTIONS
SHEET 1 OF 3 SHEETS

2

NO.	DATE	REVISION	BY	CHKD.
1	10/15/03	REVISED	BS	10/15/03
2				
3				
4				
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20				



3" Asphalt Conc. Base
150/25 Fly Ash

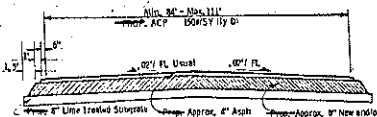
6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 4.1 Tons/STA

4" Asphalt Conc. Thick
Est. 180 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 77 CYS/STAB (Comp)
Est. 100 CYS/STAB (Comp)
2% Lime on Salv. & 1% on New

TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 298+00 - Sta. 301+00

Sta. 97+50 - Sta. 103+00 (Line 31.51 LL 45.50 Sta.)	Sta. D+00 - Sta. T+00 (2 & RT)
Sta. 101+00 - Sta. 244+00 (Line 141.00 Sta.)	Sta. 15+00 Sta.)
Sta. 281+00 - Sta. 308+00 (Line 102.40 Sta.)	
Sta. 97+50 - Sta. 244+00 (Line 102.40 Sta.)	Sta. 4+50 Sta. 10+00 (L & RT)
Sta. 281+00 - Sta. 308+00 (Line 102.40 Sta.)	Sta. 11.00 Sta.)



3" Asphalt Conc. Base
150/25 Fly Ash

6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 11.4 Tons/STA (Avg.)

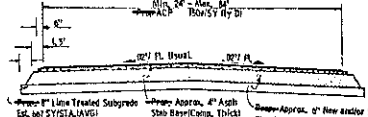
4" New And/or Salv. Flex Base (Comp. Thick)
Est. 444 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 188 CYS/STAB (Compacted)(Avg)
2% Lime on Salv. & 1% on New

TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 246+00 - Sta. 249+00

Sta. 276+00 - Sta. 281+00

Sta. 11.00 Sta.)



3" Asphalt Conc. Base
150/25 Fly Ash

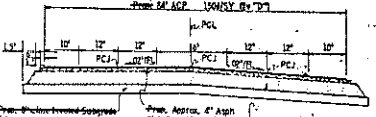
6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 6.8 Tons/STA (Avg)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 444 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 188 CYS/STAB (Compacted)(Avg)
2% Lime on Salv. & 1% on New

TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 0+00 - Sta. 4+50

Sta. 16.50 Sta.)



3" Asphalt Conc. Base
150/25 Fly Ash

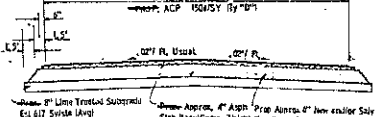
6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 10.0 Tons/STA

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 444 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 188 CYS/STAB (Comp)

TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 269+00 - Sta. 274+00

Sta. 17.00 Sta.)



3" Asphalt Conc. Base
150/25 Fly Ash

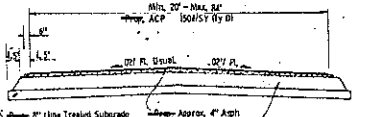
6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 5.1 Tons/STA

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 444 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 188 CYS/STAB (Comp)

TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 90+00 - Sta. 97+00

Sta. 7.50 Sta.)



3" Asphalt Conc. Base
150/25 Fly Ash

6" Lime Treated Subgrade
Est. 420 CYS/STAB
W/3% Lime Adm'd By WL
Est. 4.4 Tons/STA (Avg)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 444 CYS/STAB (Comp)

4" New And/or Salv. Flex Base (Comp. Thick)
Est. 188 CYS/STAB (Compacted)(Avg)
2% Lime on Salv. & 1% on New

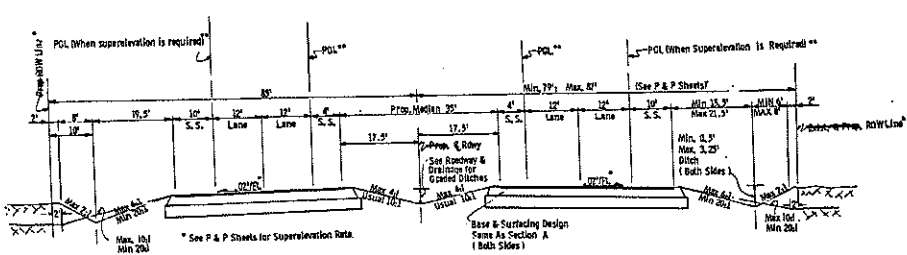
TYPICAL AC SECTION
Used Between The Following Stations:
Sta. 7+80 - Sta. 15+20

Sta. 17.40 Sta.)

NOTE: THE 1% LIME SHOWN ON TYPICAL SECTIONS FOR EVEN 50' TRUCK BASES IS SEPARATE FROM LIME WHICH MAY BE REQUIRED TO MEET P.L. AND TRIAXIAL REQUIREMENTS ADDED AT CONTRACTOR'S EXPENSE.

TYPICAL SECTIONS SHEET 2 OF 3 SHEETS

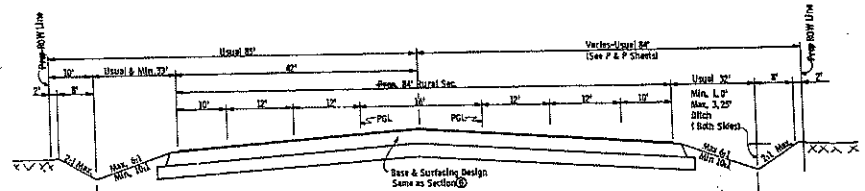
DATE	10/13/01	BY	JMS
SCALE		CHECKED	
DRAWN BY		DATE	
10/13/01		10/13/01	



2-3/4\"/>

* ROW widens 20' on each side between STA. 176 + 00 - STA. 189 + 00.
 ** PCL changes in PM 681 and EM 295
 Transitions when pavement is superelevated.

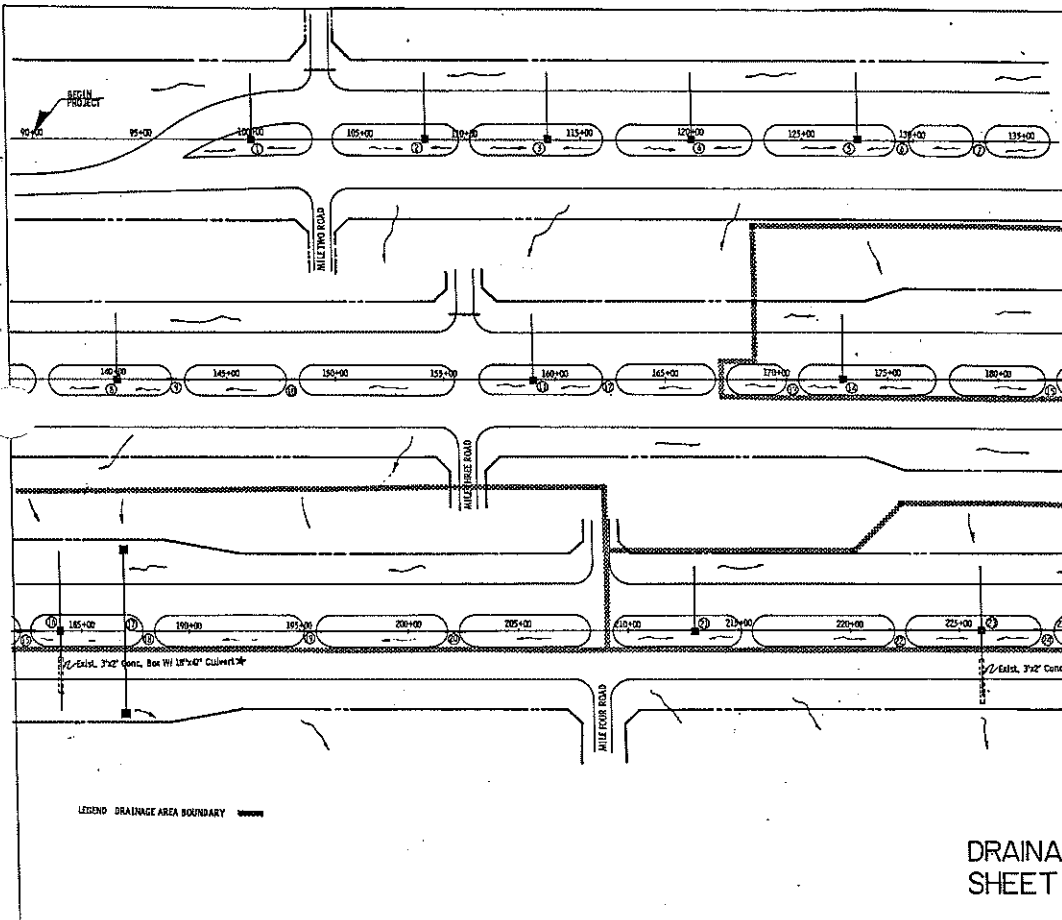
GENERAL NOTES:
 Where required by fixtures or unusual conditions, the governing slopes may be varied when specifically directed by the Engineer.
 The Subgrade shall be shaped and bladed a minimum distance of two feet beyond the edge of the proposed base course. The complete base shall be rolled before the earth shoulder is shaped and final compaction will be done over base and edge of shoulder.
 A shrinkage factor of 30% was allowed for embankment.
 Ponding or Trapping of water on the Main Lanes after completion of Low III embankment will not be permitted. The Contractor shall blade openings to allow runoff to spill into proposed graded ditches at designated locations as directed by the Engineer.
 See "Roadway, Drainage & Irrigation Details" for Graded Ditches where applicable.



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TYPICAL SECTIONS
 SHEET 1 OF 3 SHEETS

DATE	BY	CHECKED BY	SCALE
11/10/00	BS/00h		AS SHOWN
11/10/00			
11/10/00			



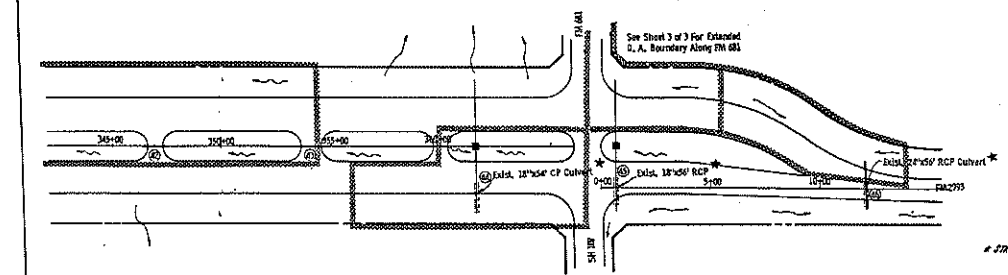
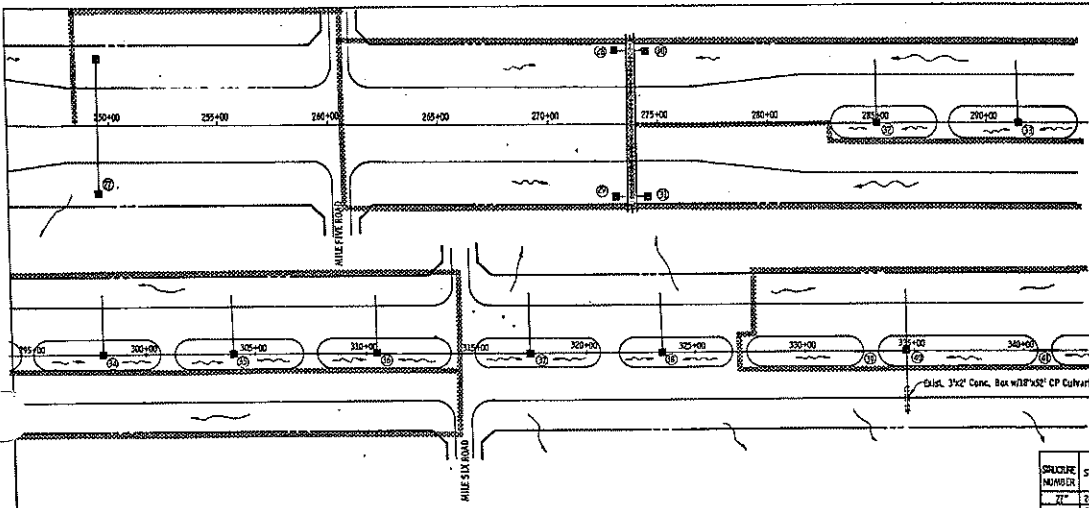
STRUC #	STATION	DESCRIPTION	AREA AC.	RUNOFF COEF	INTER INFR	Q 10 CFS	DESIGN SIZE IN	DESIGN SLOPE %	CAPACITY CFS
1	105+00	12" MANHOLE INLET PIPE	0.44	.3	8.7	1.7	18	0.000	6.0
2	105+00	12" MANHOLE INLET PIPE	0.57	.3	8.7	1.4	18	0.000	6.0
3	112+50	12" MANHOLE INLET PIPE	0.52	.3	8.7	1.4	18	0.000	6.0
4	120+00	12" MANHOLE INLET PIPE	0.54	.3	8.7	1.4	18	0.000	6.0
5	125+50	12" MANHOLE INLET PIPE	1.07	.3	8.7	2.9	18	0.000	6.0
6	125+50	CROSSOVER PIPE	0.56	.3	8.7	1.2	18	0.000	1.5
7	133+00	CROSSOVER PIPE	0.28	.3	8.7	0.7	18	0.000	1.5
8	167+00	12" MANHOLE INLET PIPE	1.55	.3	8.7	4.1	18	0.000	6.0
9	171+75	CROSSOVER PIPE	1.05	.3	8.7	2.8	18	0.000	3.0
10	181+00	CROSSOVER PIPE	0.54	.3	8.7	1.7	18	0.000	1.5
11	183+00	12" MANHOLE INLET PIPE	0.52	.3	8.7	1.4	18	0.000	6.0
12	187+5	CROSSOVER PIPE	0.41	.3	8.7	1.1	18	0.000	1.5
13	190+75	CROSSOVER PIPE	0.26	.3	8.7	0.7	18	0.000	1.5
14	193+00	12" MANHOLE INLET PIPE	0.80	.3	8.7	2.1	18	0.000	6.0
15*	187+00	FLOOD RELIEF STRUCTURE	31	.15	5.0	36.3	30	0.000	29
16	185+00	CROSSOVER PIPE	0.29	.3	8.7	1.0	18	0.000	1.5
17*	185+00	CROSSOVER PIPE	48	.15	5.0	37.7	30	0.000	34
18	185+00	CROSSOVER PIPE	1.02	.3	8.7	4.4	18	0.000	4.8
19	185+50	CROSSOVER PIPE	1.02	.3	8.7	4.4	18	0.000	4.8
20	200+10	CROSSOVER PIPE	0.54	.3	8.7	1.4	18	0.000	1.5
21	213+00	12" MANHOLE INLET PIPE	0.53	.3	8.7	1.4	18	0.000	6.0
22	222+00	CROSSOVER PIPE	0.56	.3	8.7	1.5	18	0.000	1.5
23**	226+00	CROSSOVER PIPE	26.0	.30	7.7	40	16	0.000	42
24	229+00	CROSSOVER PIPE	0.40	.3	8.7	1.0	18	0.000	1.5
25	239+00	CROSSOVER PIPE	0.44	.3	8.7	1.2	18	0.000	1.5
26	242+50	12" MANHOLE INLET PIPE	0.80	.3	8.7	2.1	18	0.000	6.0

NOTE: ALL MEDIAN INLETS WITH PIPE DESIGNED FOR PRESSURE FLOW WITH W-1.5

*CROSS CULVERT AND FLOOD RELIEF STRUCTURE CAPACITIES DERIVED FOR PRESSURE FLOW WITH W-2.5 AND W-1.5 RESPECTIVELY IN ORDER TO MAINTAIN EXISTING DRAINAGE CONDITIONS WITHOUT ALLOCATION AND TO CONTROL UPSTREAM FLOODING.

** CROSS CULVERT DESIGNED FOR PRESSURE FLOW WITH W-1.5

NO.	DATE	BY	CHKD.
1	12/2/03	...	...
2	...	...	...
3	...	...	...
4	...	...	...



STRUCTURE NUMBER	STATION	DESCRIPTION	AREA ACRES	RUNOFF COEFF	INTEN INHR	ϕ_p RUNOFF EPS	SIZES IN	SLOPE %	CAPACITY CFS
27	249+50	FLOOD RELIEF STRUCT	6.80	.3	8.7	18.0	30	0.000	18.3
28	273+75	18\"/>							
29	273+75	18\"/>							
30	273+75	18\"/>							
31	277+50	18\"/>							
32	295+00	MEDIAN INLET W/PIPE	0.53	.3	8.7	1.4	18	0.000	4.0
33	291+50	MEDIAN INLET W/PIPE	0.52	.3	8.7	1.4	18	0.000	4.0
34	295+00	MEDIAN INLET W/PIPE	0.52	.3	8.7	1.4	18	0.000	4.0
35	304+00	MEDIAN INLET W/PIPE	0.43	.3	8.7	1.3	18	0.000	4.0
36	318+50	MEDIAN INLET W/PIPE	0.50	.3	8.7	1.5	18	0.000	4.0
37	317+50	MEDIAN INLET W/PIPE	0.53	.3	8.7	1.4	18	0.000	4.0
38	323+50	MEDIAN INLET W/PIPE	0.48	.3	8.7	1.3	18	0.000	4.0
39	333+00	CROSSOVER PIPE	0.48	.3	8.7	1.3	18	0.000	1.3
40*	334+87	CROSS CULVERT	6.71	.3	8.7	17.5	30	0.000	18.3
41	348+00	CROSSOVER PIPE	1.52	.3	8.7	4.0	18	0.140	4.0
42	347+00	CROSSOVER PIPE	1.04	.3	8.7	2.7	18	0.072	3.0
43	304+00	CROSSOVER PIPE	0.48	.3	8.7	1.3	18	0.000	1.3
44	301+43	CROSS CULVERT	2.2	.3	8.7	5.7	24	0.122	21.0
45	0+70	CROSS CULVERT	2.62	.3	8.7	6.6	24	0.092	3.2
46	12+00	CROSS CULVERT	3.24	.3	8.7	3.9	24	0.060	5.2

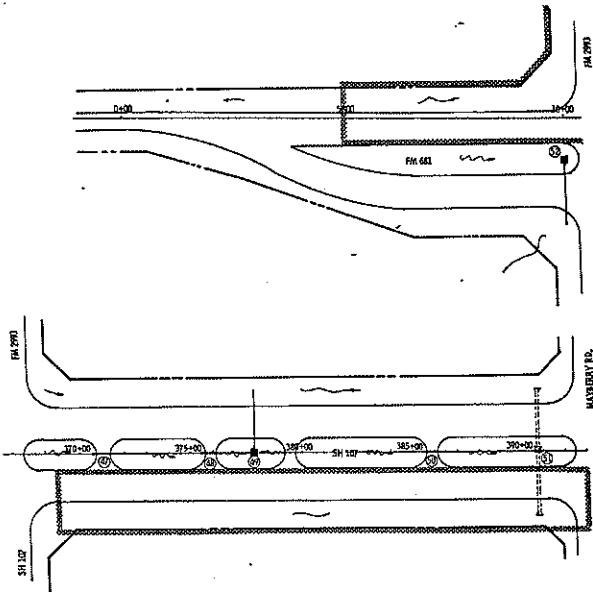
* STRUCTURE CAPACITIES DESIGNED FOR PRESSURE FLOW WITH H²O IN CULVERT TO MAINTAIN EXISTING DRAINAGE CONDITIONS WITHOUT ALTERATION.

DRAINAGE AREA MAP SHEET 2 OF 3 SHEETS

NOTE: ALL MEDIAN INLETS WITH PIPE DESIGNED FOR PRESSURE FLOW WITH H²O

DATE	BY	PROJECT NO.	SHEET NO.
11/10/00	RS/TKD	100000000	21
DATE	BY	PROJECT NO.	SHEET NO.
11/10/00	RS/TKD	100000000	21

21



SHEET NUMBER	STATION	DESCRIPTION	AREA ACRES	ROW OFF COEF	INCH	CFS	DESIGN		
							SIZE IN	SLOPE %	CAPACITY CFS
47	371+00	CROSSOVER PIPE	0.32	.3	8.7	0.8	18	0.000	1.3
48	374+00	CROSSOVER PIPE	0.72	.3	8.7	1.9	18	0.000	2.5
49	378+00	MEDIAN INLET PIPE	1.01	.3	8.7	2.6	18	0.000	4.0
50	380+00	CROSSOVER PIPE	0.51	.3	8.7	1.5	18	0.000	1.7
51	381+00	CROSS-CULVERT	4.68	.3	8.7	12.2	24	0.000	18.0
52	385+00	MEDIAN INLET PIPE	0.44	.3	8.7	1.2	18	0.000	1.8

* EXISTING CROSS - CULVERT
 (TO BE USED IN PLACE)
 NOTE: ALL MEDIAN INLETS WITH
 PIPE DESIGNED FOR
 PRESSURE FLOW WITH 10" P

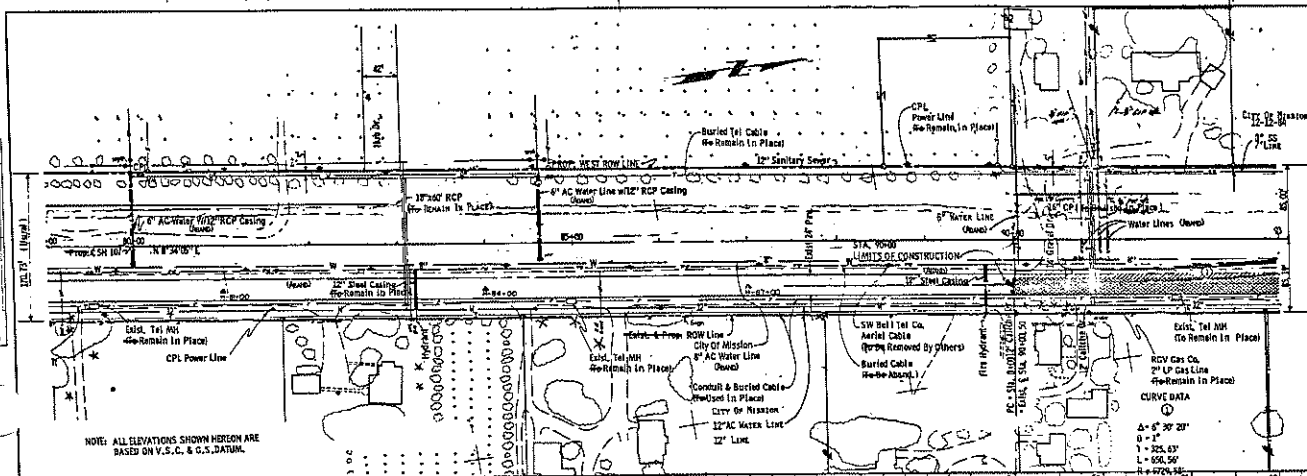
DRAINAGE AREA MAP
 SHEET 3 OF 3 SHEETS

22

DATE	BY	CHECKED BY	SCALE
10/1/58	J.P.	J.P.	AS SHOWN
PROJECT	NO.	SHEET	TOTAL
10/1/58	1000	22	22
DESIGNED BY	DATE	BY	CHECKED BY
J.P.	10/1/58	J.P.	J.P.

PROJECT NO.	25 1401
CITY	RIBALGO
SHEET NO.	23
TOTAL SHEETS	27

23



STRUCTURES SHOWN TO BE REMOVED UNDER "PREP. ROW". ITEM IS BASED ON THE BEST AVAILABLE INFO. BUT OTHER STRUCTURES MAY BE REMOVED UNDER THIS ITEM AS DIRECTED BY THE ENGINEER.

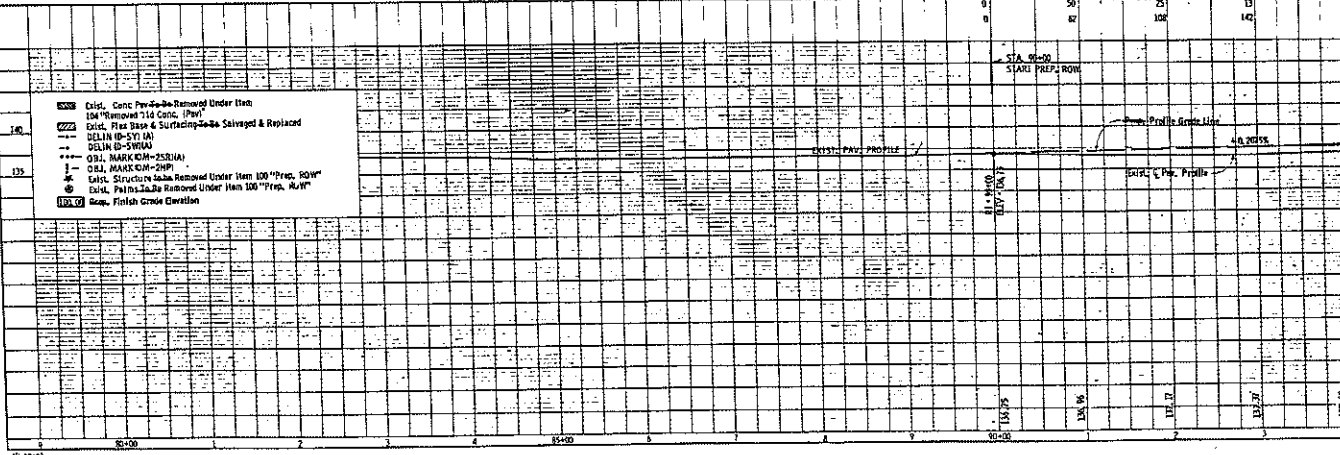
PROJECT NOTES:
REMOVE & REPL. MAIL BOXES TO BE DONE BY STATE FORCES

NOTE: ALL ELEVATIONS SHOWN HEREON ARE BASED ON V.S.C. & C.S. DATUM.

SHEET TOTALS		ITEM
EST.	FIN.	
85	1	1.000
312	0	2.000
3	0	3.000

BM 44
R.R. SPIKE -
ON POWER POLE,
@ STA. 8143,
37' RT.
ELEV. = 171.31'

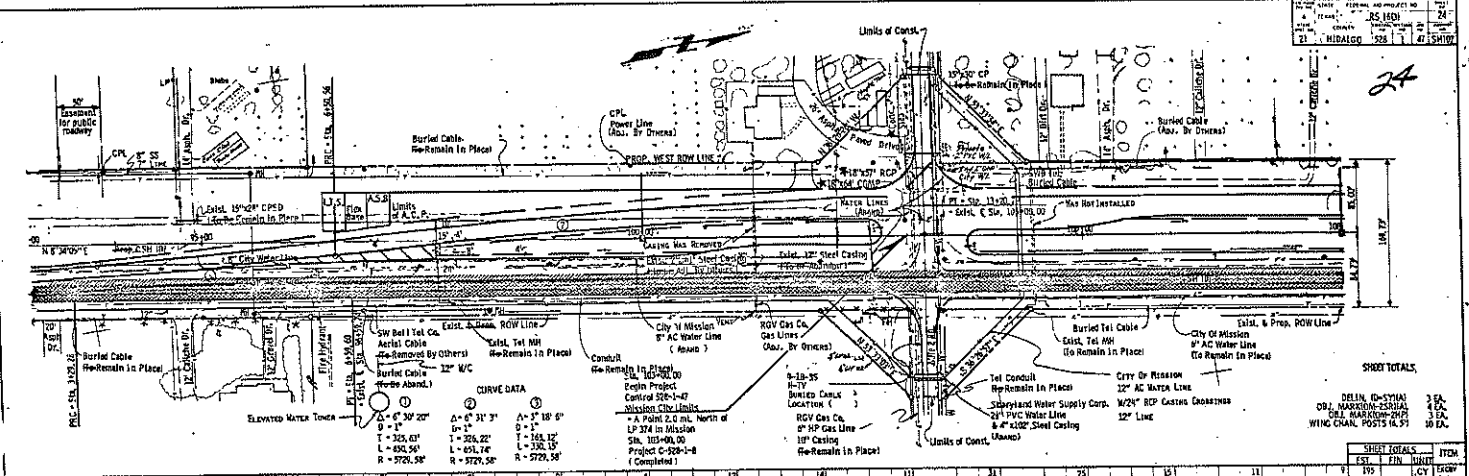
- Exst. Conc Pav. To Be Removed Under Itch
- 104' (Removed) 144' Conc. (Pav)
- Exst. Flat Slope & Surfacing To Be Salvaged & Replaced
- DELIN (D-SY) (A)
- DELIN (D-SY) (B)
- DELIN (D-SY) (C)
- DELIN (D-SY) (D)
- DELIN (D-SY) (E)
- DELIN (D-SY) (F)
- DELIN (D-SY) (G)
- DELIN (D-SY) (H)
- DELIN (D-SY) (I)
- DELIN (D-SY) (J)
- DELIN (D-SY) (K)
- DELIN (D-SY) (L)
- DELIN (D-SY) (M)
- DELIN (D-SY) (N)
- DELIN (D-SY) (O)
- DELIN (D-SY) (P)
- DELIN (D-SY) (Q)
- DELIN (D-SY) (R)
- DELIN (D-SY) (S)
- DELIN (D-SY) (T)
- DELIN (D-SY) (U)
- DELIN (D-SY) (V)
- DELIN (D-SY) (W)
- DELIN (D-SY) (X)
- DELIN (D-SY) (Y)
- DELIN (D-SY) (Z)



DATE: 11/15/01
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN

PROJECT NO. 25 1401
SHEET NO. 23
DATE: 11/15/01
BY: [Signature]
CHECKED: [Signature]

END OF SHEET



CURVE DATA

①	Δ = 6° 30' 20"	Δ = 6° 31' 3"	Δ = 3° 18' 6"
	9 = 1"	0 = 1"	0 = 1"
	T = 325.63'	L = 205.22'	L = 163.12'
	R = 3725.94'	R = 3725.30'	R = 3725.38'

Conduit to Remain in Place
 4-18-35
 H-TY
 Buried Cable Location
 RGV Gas Co.
 8" SP Gas Line
 18" Casing
 to Remain in Place

City of Mission
 8" AC Water Line
 (Remain)
 RGV Gas Co.
 Gas Lines
 (Remain)
 4-18-35
 H-TY
 Buried Cable Location
 RGV Gas Co.
 8" SP Gas Line
 18" Casing
 to Remain in Place

Tel Conduit to Remain in Place
 12" AC Water Line
 Suburban Water Supply Corp.
 24" PVC Water Line
 & 4" x 20" Steel Casing
 (Remain)
 City of Mission
 8" AC Water Line
 12" Line
 to Remain in Place

SHEET TOTALS
 DELIN. 10-27-14
 ORG. MARKING-CORRAL
 DRA. MARKING-2014
 WING CHAN, POST 10.91

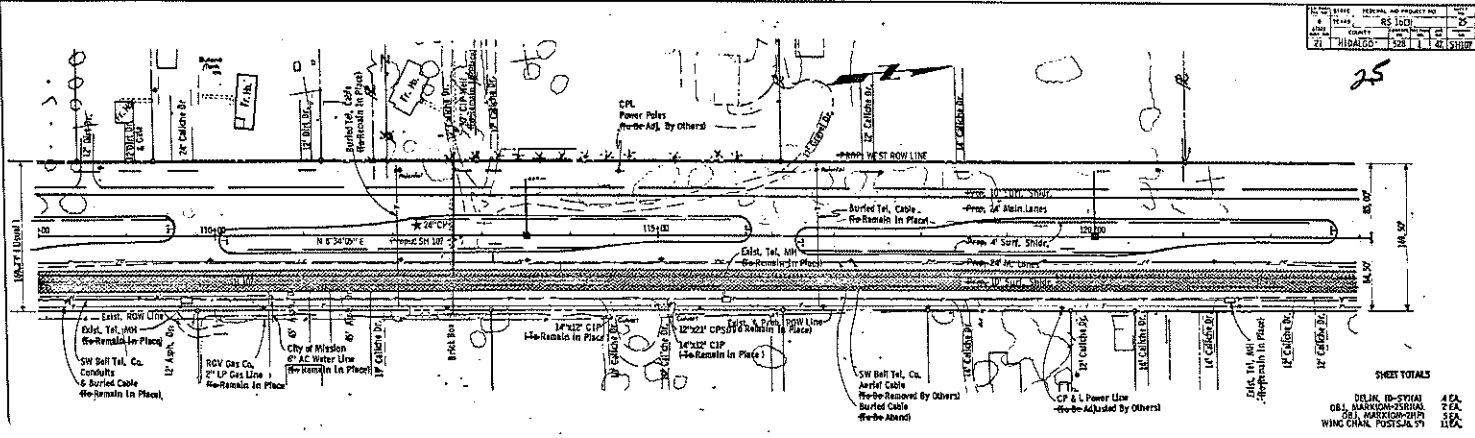
STATION	DISTANCE										ITEM	
	0	1	2	3	4	5	6	7	8	9		
140												RM 3A R.R. Spike on Power Pole @ Sta. 106+43, 34' W. Elev. = 136.47'
145												
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10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

25



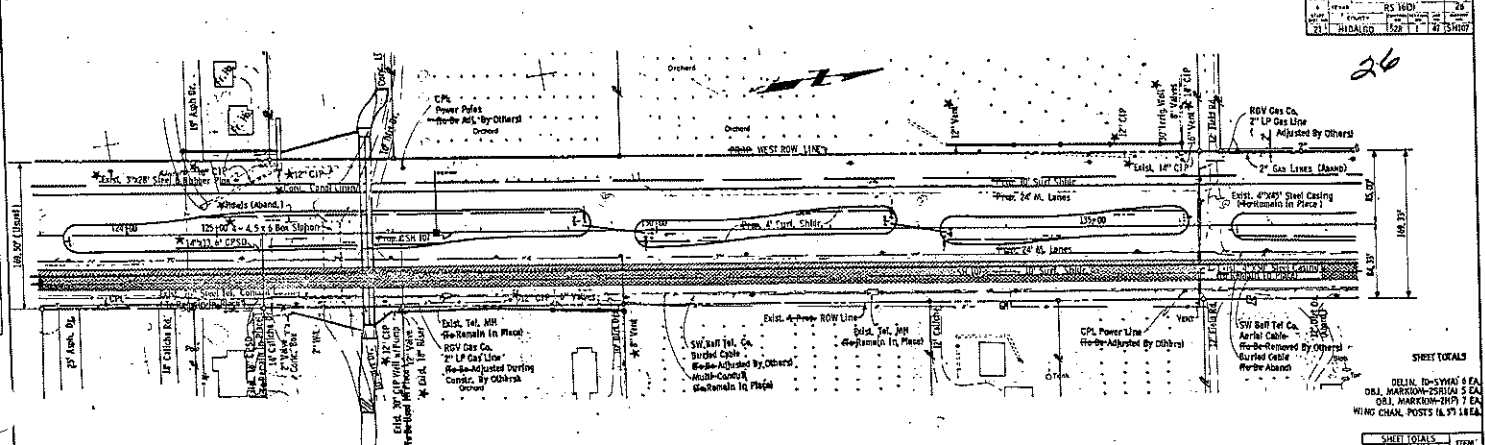
SHEET TOTALS
 DEL. IN. ID - 5.00 IN. 4 EA.
 OB. MARKING - 2.00 IN. 2 EA.
 DEL. MARKING - 2.00 IN. 2 EA.
 WING CHAM. POSTING - 3.00 IN. 1 EA.

STATION	SHEET TOTALS													EST. STA.	FIN. STA.	TOTAL STA.	HYDR.	
	1	2	3	4	5	6	7	8	9	10	11	12	13					
1099	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116
1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135
1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154
1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173
1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192
1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211
1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249
1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268
1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287
1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306
1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325
1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344
1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363
1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382
1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401
1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420
1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439
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1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477
1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496
1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515
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1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553
1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572
1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591
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1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762
1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781
1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800

Rev. 11/10/11

DATE	10/15/00	BY	WJH
SCALE	AS SHOWN	PROJECT	150' WIND
NO.	150	REV.	1
DESCRIPTION	150' WIND		

26

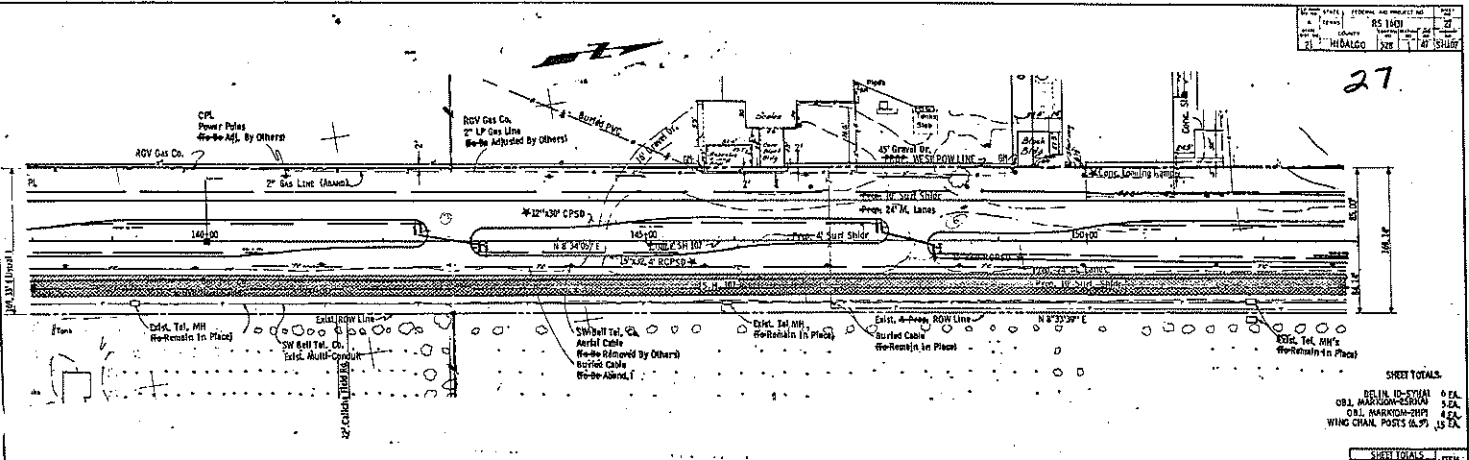


SHEET TOTALS
 DELIN. 10-15-00 6 EA
 DBL. MARKING-25310 5 EA
 DBL. MARKING-25310 1 EA
 WIND CHAM. POSTS 16 37 18 EA

STATION	SHEET TOTALS		ITEM
	CY	PSK	
1+00	145	15	6, M. 4 2A
2+00	145	15	2, R. 50R on
3+00	145	15	Paint Tree
4+00	145	15	5 Sta. 125-12, 33RL
5+00	145	15	Dist. = 142.0'
6+00	145	15	
7+00	145	15	
8+00	145	15	
9+00	145	15	
10+00	145	15	
11+00	145	15	
12+00	145	15	
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47+00	145	15	
48+00	145	15	
49+00	145	15	
50+00	145	15	

Rev. 11-2-01

27

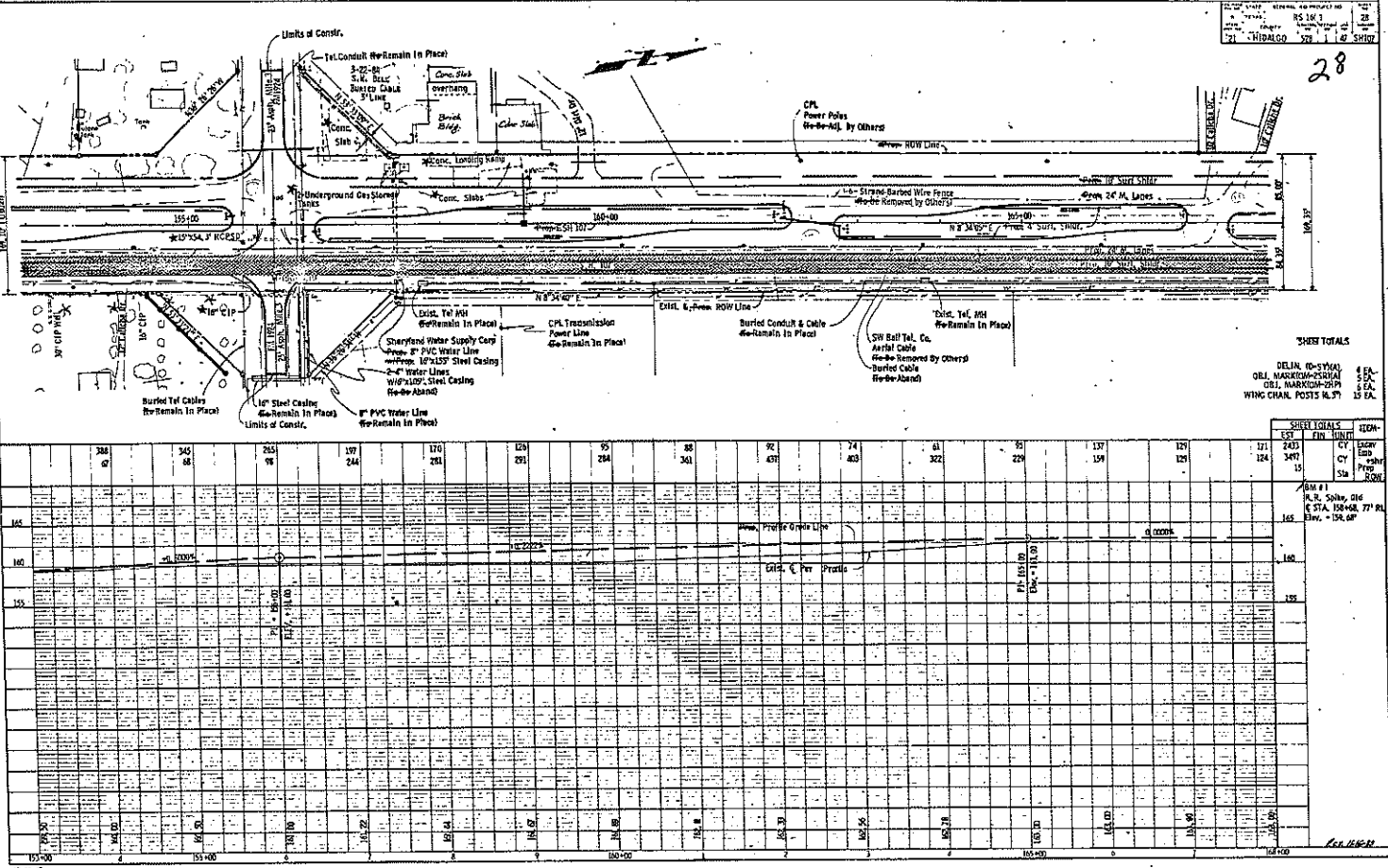


SHEET TOTALS:
 0 EA.
 3 EA.
 4 EA.
 15 EA.

STATION	SHEET TOTALS		REMARKS
	CU	CU	
99	363	363	
100	351	351	
101	438	438	
102	384	384	
103	328	328	
104	394	394	
105	410	410	
106	417	417	
107	350	350	
108	276	276	
109	212	212	
110	155	155	
111	75	75	
112	00	00	
113	15	15	
114			8. AL. 11A
115			2. AL. 5018 op
116			Power Pole
117			Sta. 142+00, 142+10
118			Dist. = 133.77'

1. ALL DIMENSIONS TO BE CHECKED
 2. ALL DIMENSIONS TO BE CHECKED
 3. ALL DIMENSIONS TO BE CHECKED

1. ALL DIMENSIONS TO BE CHECKED
 2. ALL DIMENSIONS TO BE CHECKED
 3. ALL DIMENSIONS TO BE CHECKED



SHEET TOTALS
 DELIN 10-57601 4 EA.
 O&L MARKING-CHINA 5 EA.
 WING CHAR. POSTS N.S. 27 6 EA.
 15 EA.

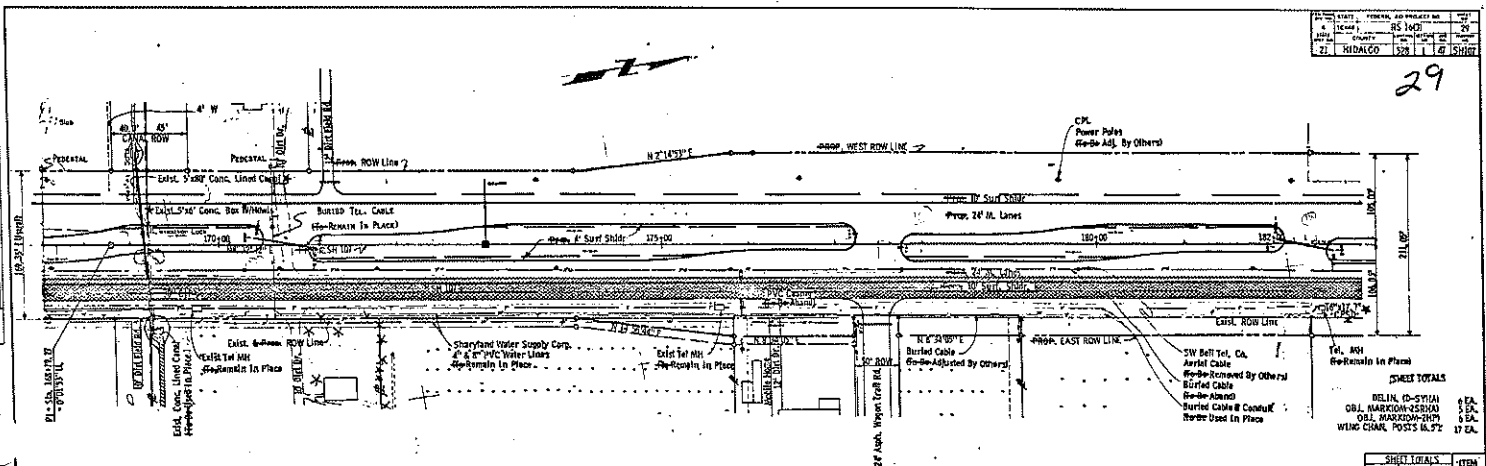
STATION	SHEET TOTALS										SHEET TOTALS										
	388	242	253	197	170	128	95	88	92	74	61	50	1	137	129	121	243	247	124	15	
388+00																					
390+00																					
392+00																					
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418+00																					
420+00																					

PROJECT LOCATION
 SHEET NO.
 DATE

KEL 11/14/04

21 HEDAGO 528 1 14 5107
 21 HEDAGO 528 1 14 5107

29



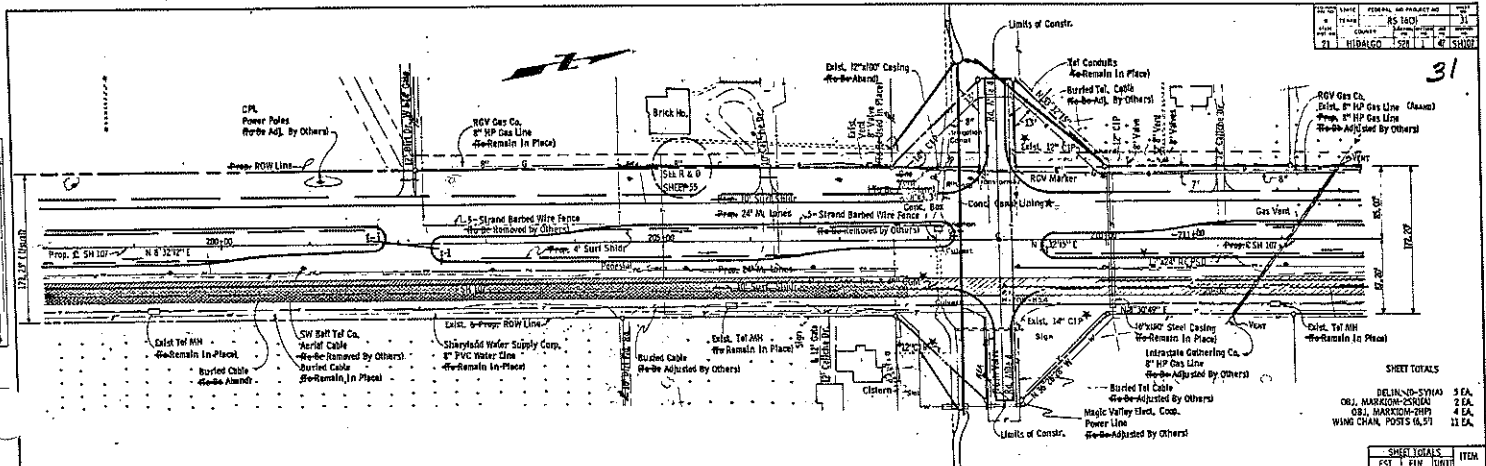
SHEET TOTALS
 TEL. ARI
 Re-Remain In Place
 4 EA.
 OBL. HARBORON-ESSIAU
 5 EA.
 OBL. MARSDEN-HPY
 6 EA.
 WING CHALK POSTS 6x5 1/2"
 17 EA.

STATION	SHEET TOTALS										ITEM																
	144	148	64	41	36	28	19	21	91	81		125	135	130	135	428	1516	CT	Excav	1	GRID	4	WANT	1	POST	1	ROCK
155																											
160																											
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320																											
325																											
330																											
335																											
340																											
345																											
350																											
355																											
360																											
365																											
370																											
375																											
380																											
385																											
390																											
395																											
400																											

REV 11/2011

DATE	1/23/59	GENERAL NO.	PROJECT NO.
SCALE	1" = 40'	NO.	31
PROJECT	TRIAL BALDWIN	DATE	1/23/59

31



SHEET TOTALS

DELIN. IN SYMBAL	5 EA.
DEL. MARKING SYMBOL	2 EA.
DEL. MARKING SYMBOL	4 EA.
WING CHAIN, POSTS 0.5 FT	11 EA.

STATION	SHEET TOTALS										ITEM														
	EST	FIN	UNIT	Excav	Emb	Comp	Prop	Stk	Back	Other															
170	78	82	58	44	51	63	88	47	41	105	73	0	497	381	405	114	9	0	625	0	620	7885	15	B.M. # 4	
165																									Blue Dwg. Old
160																									Sta. 206+05
155																									Box = 108.82'
150																									
145																									
140																									
135																									
130																									
125																									
120																									
115																									
110																									
105																									
100																									
95																									
90																									
85																									
80																									
75																									
70																									
65																									
60																									
55																									
50																									
45																									
40																									
35																									
30																									
25																									
20																									
15																									
10																									
5																									
0																									

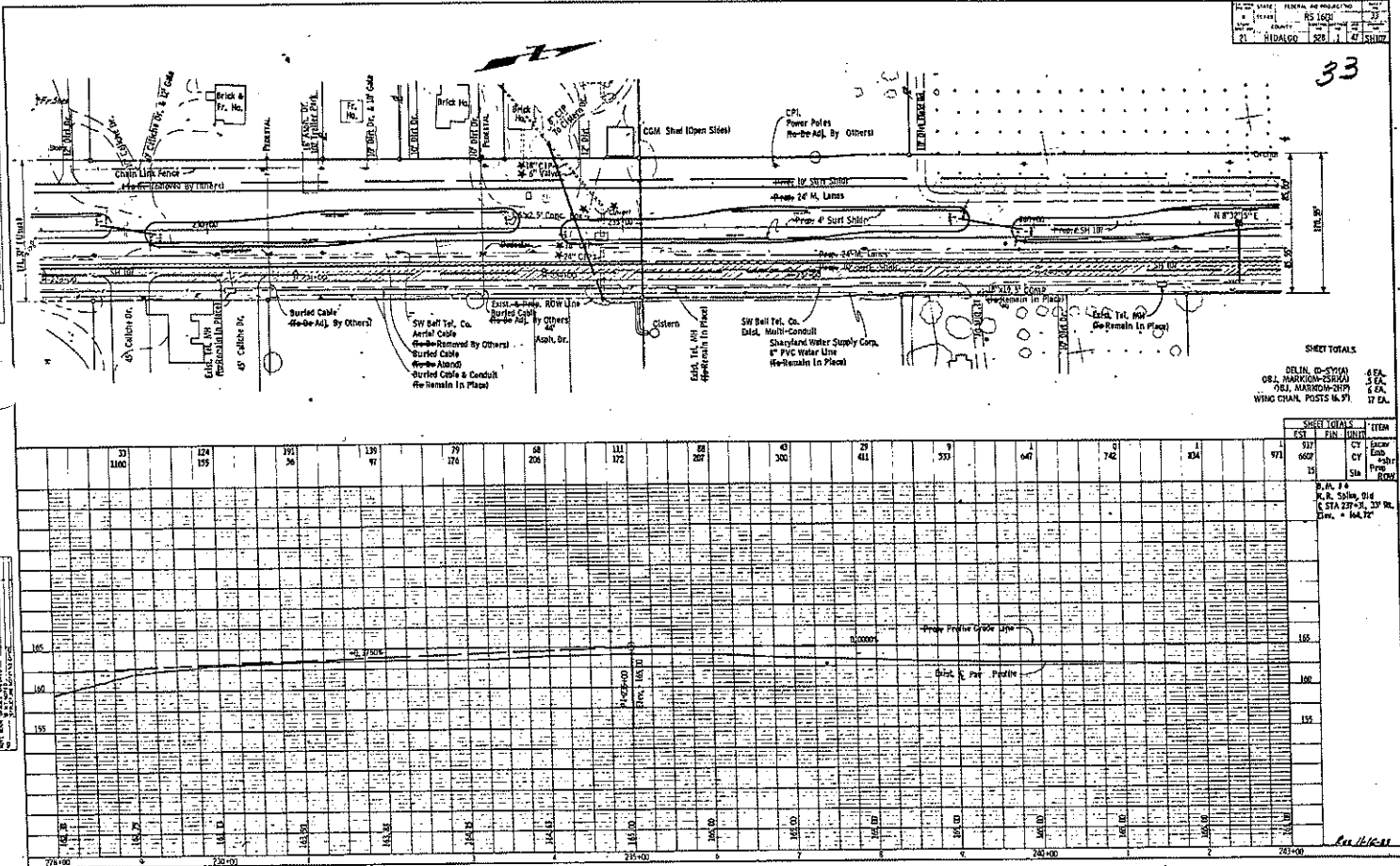
ALL UTILITIES SHOWN ARE AS LOCATED
 UNLESS OTHERWISE NOTED
 BY FIELD SURVEY

ALL UTILITIES SHOWN ARE AS LOCATED
 UNLESS OTHERWISE NOTED
 BY FIELD SURVEY

REV. 1/23/59

STATE: PENNSYLVANIA PROJECT NO: 11111
 COUNTY: ALLEGANY COUNTY SHEET NO: 33
 DISTRICT: RIDGECREST 828 1 42 SHEET

33



SHEET TOTALS
 DELIN. (D-SYMA) 4 EA.
 O&J, MARKING-CURBS 3 EA.
 O&J, MARKING-POSTS 6 EA.
 WING CHAN, POSTS 16 91 17 EA.

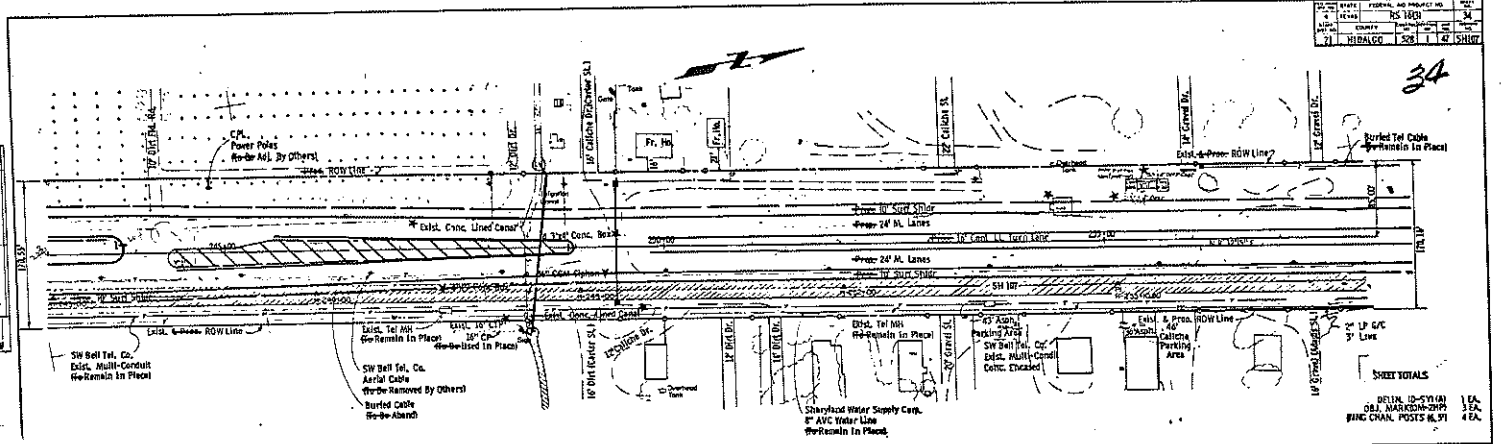
STATION	SHEET TOTALS			TOTAL
	EST	FIN	DIFF	
1100	31	1100		1100
115	124	115		115
124	191	124		124
139	197	139		139
174	297	174		174
208	48	208		208
112	111	112		112
227	227	227		227
300	43	300		300
411	29	411		411
533	9	533		533
647	1	647		647
742	9	742		742
804	1	804		804
971	1	971		971
6697	13	6697		6697
13	13	13		13

PLAN 11111
 M. R. Spivey, Dtd
 (C STA 337+50, 33' RL
 Elev. = 164.72'

END

DATE	PROJECT AND PROJECT NO.	SHEET
10/21/83	RS 1803	34
BY	DESIGNED BY	CHECKED BY
21	HIBALGO	10/21/83

34

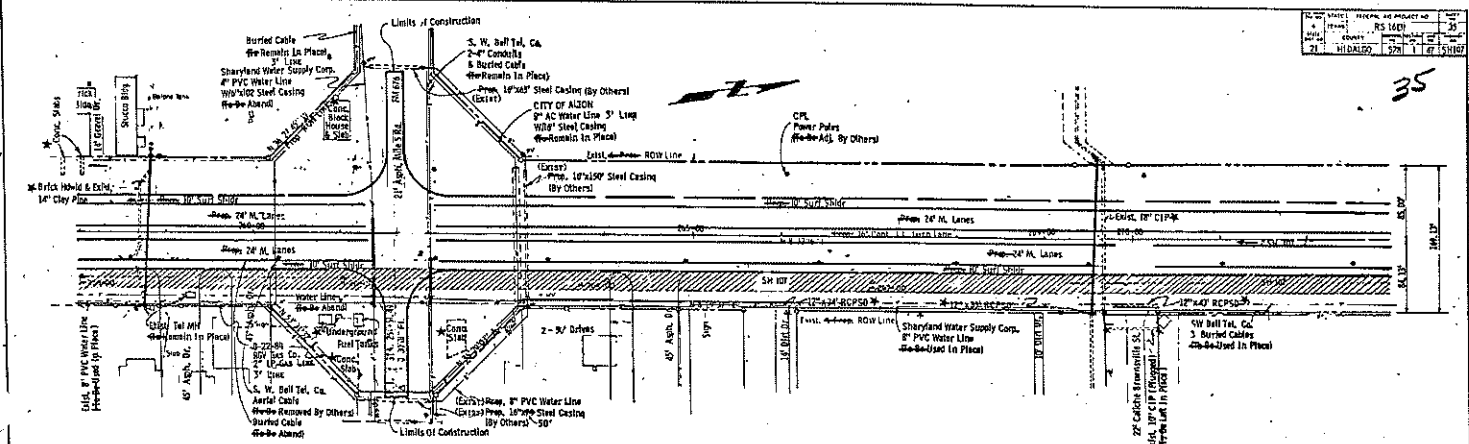


SHEET TOTALS
 1.5 EA.
 4 EA.

STATION	SHEET TOTALS		FIN. QUANTITY
	EST.	FIN.	
1147	220	222	15
1204	140	14201	15
1136			
1189			
1049			
1003			
1243			
1275			
1178			
1001			
975			
997			
104			
158			
303			
280			
140			
15			

REV. 11/10/83

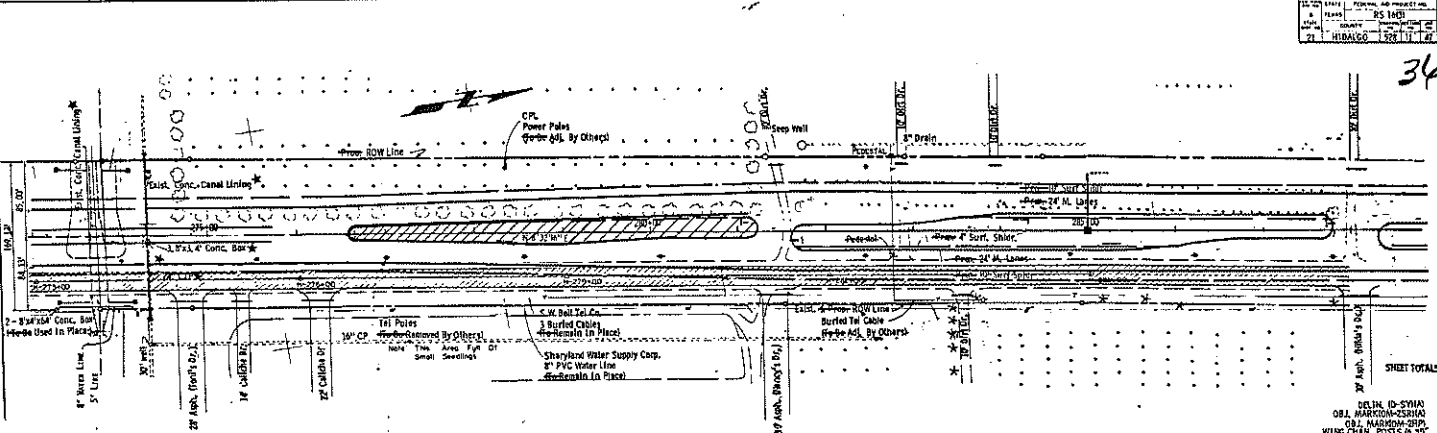
35



STATION	SHEETS TOTALS			ITEM
	EST	FIN	UNIT	
155+00	275	169		CY Earth
156+00	226	203		
157+00	245	241		CY Embankment
158+00	191	251		
159+00	274	160		CY Structure
160+00	286	94		
161+00	229	133		CY Backfill
162+00	240	163		
163+00	255	136		CY Concrete
164+00	283	114		
165+00	300	55		CY Pipe
166+00	482	25		
167+00	548	17		CY Other
168+00	501	13		
169+00	606	13		CY Total
170+00	15			

DATE	PROJECT	SCALE
1951	55100	1" = 40'
DESIGNED BY	DRAWN BY	CHECKED BY
HUBBARD	1221	48

36



SHEET TOTALS

DELIN. (D-SYMA)
 OBL. MARKING-SHIELD
 OBL. MARKING-SHIP
 WING CHAM. POSTS 4x3"

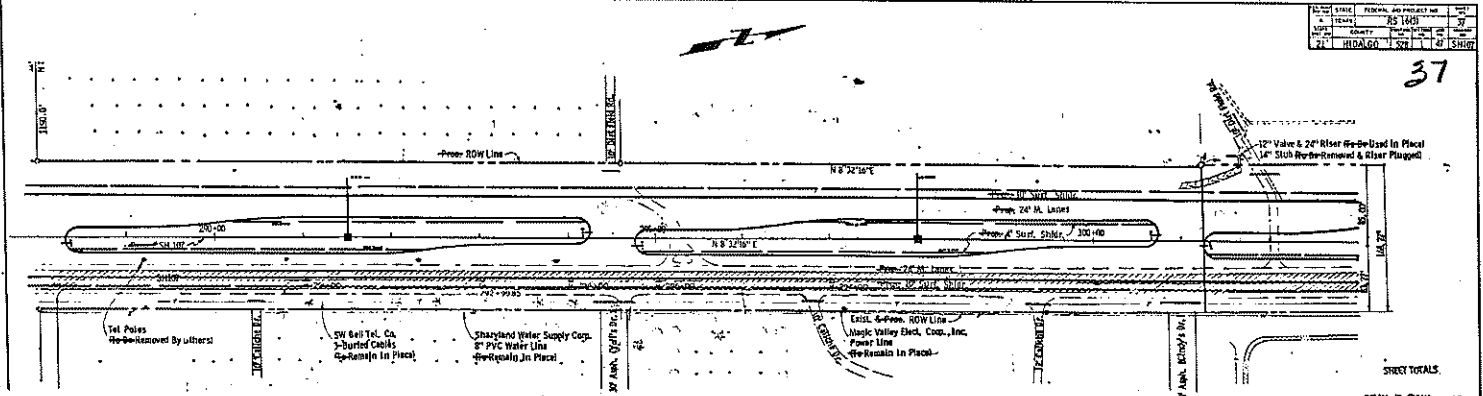
SHEET TOTALS		ITEMS	
EST.	ACT.	ITEM	QUANTITY
3325	10777	1 EA.	
15		2 EA.	
30		4 EA.	
29		2 EA.	
31			

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
27+00	27+00	27+20	27+40	27+60	27+80	28+00	28+20	28+40	28+60	28+80	29+00	29+20	29+40	29+60	29+80	30+00	30+20	30+40	30+60	30+80	31+00	31+20	31+40	31+60	31+80	32+00	32+20	32+40	32+60	32+80	33+00	33+20	33+40	33+60	33+80	34+00
50	42	121	164	228	260	292	312	341	379	411	456	506	561	621	686	756	831	911	996	1086	1181	1281	1386	1496	1611	1731	1856	1986	2121	2261	2406	2556	2711	2871	3036	3206

Ref. 11.12.11

STATE	FEDERAL AID PROJECT NO.	POST
YEAR	RS 1649	37
DATE	PROJECT NO.	22
21	HIDALGO	22
		25
		28
		31
		34
		37

37



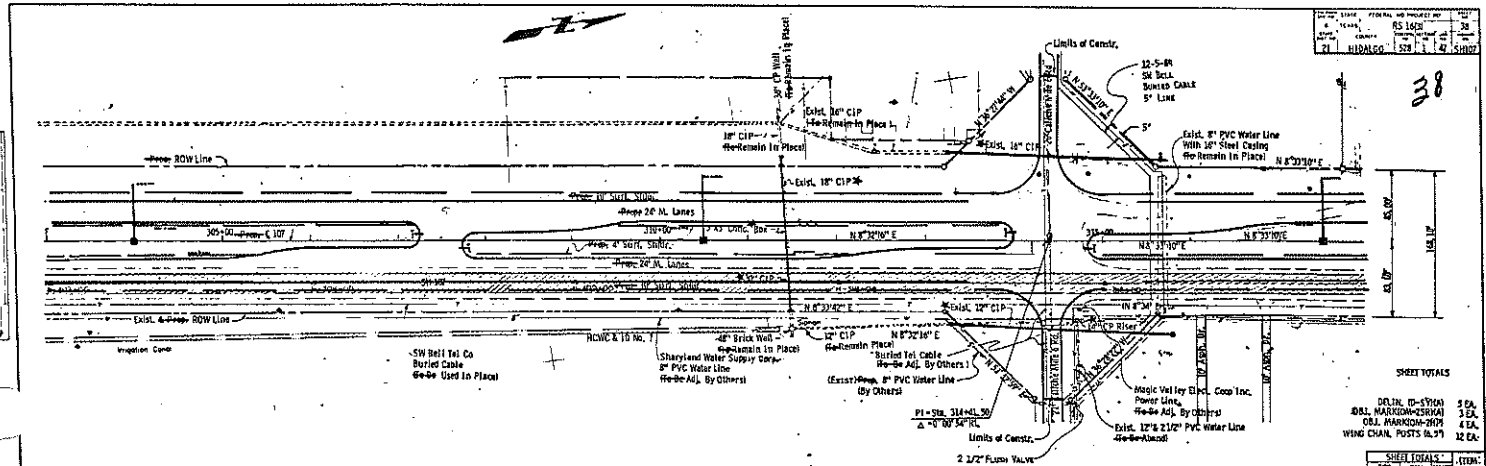
SHEET TOTALS:
 DETAIL (D-SYMA) 4 EA.
 D&L MARKING-2581A 2 EA.
 D&L MARKING-2591 3 EA.
 WING CHAM. POSTS N. 37 11 EA.

SHEET TOTALS		ITEM	
EST.	FIN.	QTY	UNIT
23	1627	369	CY
19	1574	17043	EA
31	1425	15	EA
33	1329		
34	1215		
28	1208		
29	1157		
37	1140		
31	1137		
26	1107		
24	1111		
23	1058		
32	1019		
190	580		
209	369		
369	17043		
15			

PLAN
 1/4" = 100'
 1/8" = 50'

PROPOSED
 1/4" = 100'
 1/8" = 50'

FILE 111201



38

SHEET TOTALS
 DELIN. (D-SYDN) 5 EA.
 BELL MARKING (S-SHKA) 3 EA.
 C.S. MARKING (S-SHKA) 4 EA.
 WING CHAN. POSTS (S-7) 12 EA.

SHEET TOTALS		ITEMS	
EST.	PER. (SHEET)	EST.	PER. (SHEET)
1718	1004	16	1317
15			

STATION	ITEM	QUANTITY	UNIT
311+00	CONCRETE CURB	100	LINEAL FEET
312+00	CONCRETE CURB	100	LINEAL FEET
313+00	CONCRETE CURB	100	LINEAL FEET
314+00	CONCRETE CURB	100	LINEAL FEET
315+00	CONCRETE CURB	100	LINEAL FEET
316+00	CONCRETE CURB	100	LINEAL FEET
317+00	CONCRETE CURB	100	LINEAL FEET
318+00	CONCRETE CURB	100	LINEAL FEET
319+00	CONCRETE CURB	100	LINEAL FEET
320+00	CONCRETE CURB	100	LINEAL FEET
321+00	CONCRETE CURB	100	LINEAL FEET
322+00	CONCRETE CURB	100	LINEAL FEET
323+00	CONCRETE CURB	100	LINEAL FEET
324+00	CONCRETE CURB	100	LINEAL FEET
325+00	CONCRETE CURB	100	LINEAL FEET
326+00	CONCRETE CURB	100	LINEAL FEET
327+00	CONCRETE CURB	100	LINEAL FEET
328+00	CONCRETE CURB	100	LINEAL FEET
329+00	CONCRETE CURB	100	LINEAL FEET
330+00	CONCRETE CURB	100	LINEAL FEET
331+00	CONCRETE CURB	100	LINEAL FEET
332+00	CONCRETE CURB	100	LINEAL FEET
333+00	CONCRETE CURB	100	LINEAL FEET
334+00	CONCRETE CURB	100	LINEAL FEET
335+00	CONCRETE CURB	100	LINEAL FEET
336+00	CONCRETE CURB	100	LINEAL FEET
337+00	CONCRETE CURB	100	LINEAL FEET
338+00	CONCRETE CURB	100	LINEAL FEET
339+00	CONCRETE CURB	100	LINEAL FEET
340+00	CONCRETE CURB	100	LINEAL FEET

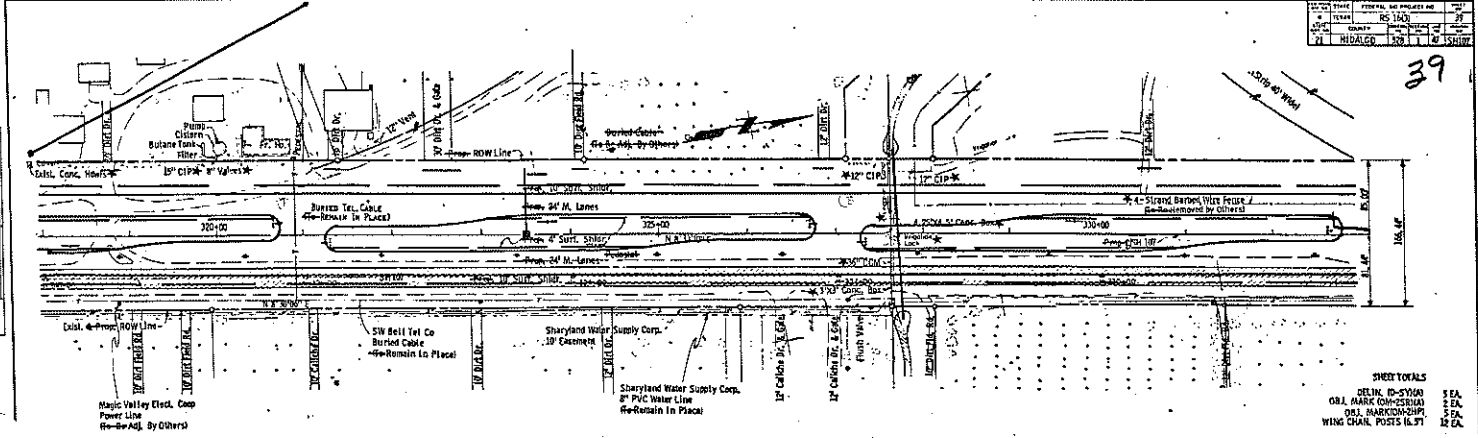
DATE: 10/10/07
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: AS SHOWN

DATE: 10/10/07
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: AS SHOWN

DATE: 10/10/07

PROJECT NO.	100-100000
SHEET NO.	39
DATE	10/1/88
DRAWN BY	W.D. BROWN
CHECKED BY	W.D. BROWN
SCALE	AS SHOWN

39



SHEET TOTALS

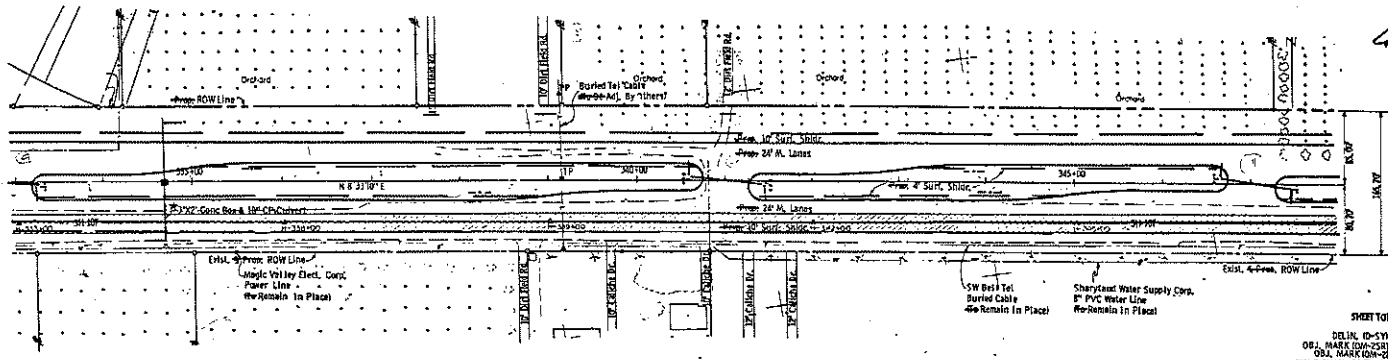
RELIN. ID-51040	5 EA.
GR. BANK CON-52040	1 EA.
DR. MARKON-SUPP.	5 EA.
WING CHAIR, POSTS (L. 91)	12 EA.

STATION	SHEET TOTALS		ITEMS
	EST.	FIN.	
1361			CY L. 91 5 EA. POSTS (L. 91)
1424	402	1066	
1629	15		R. N. # 11 R. N. 10000-010 6 STA. 322+00, 29' PG DEP. = 100.0'
1866			
1909			
1429			
1209			
1193			
1087			
824			
615			
471			
373			
232			
135			
102			
68			
33			
0			
331+00			
371+00			
411+00			
451+00			
491+00			
531+00			
571+00			
611+00			
651+00			
691+00			
731+00			
771+00			
811+00			
851+00			
891+00			
931+00			
971+00			
1011+00			
1051+00			
1091+00			
1131+00			
1171+00			
1211+00			
1251+00			
1291+00			
1331+00			
1371+00			
1411+00			
1451+00			
1491+00			
1531+00			
1571+00			
1611+00			
1651+00			
1691+00			
1731+00			
1771+00			
1811+00			
1851+00			
1891+00			
1931+00			
1971+00			
2011+00			
2051+00			
2091+00			
2131+00			
2171+00			
2211+00			
2251+00			
2291+00			
2331+00			
2371+00			
2411+00			
2451+00			
2491+00			
2531+00			
2571+00			
2611+00			
2651+00			
2691+00			
2731+00			
2771+00			
2811+00			
2851+00			
2891+00			
2931+00			
2971+00			
3011+00			
3051+00			
3091+00			
3131+00			
3171+00			
3211+00			
3251+00			
3291+00			
3331+00			

10/1/88

PLAN SHEET NO. 40
 PROJECT NO. 111-44
 DATE: 11/14/43
 DRAWN BY: HIBALCO
 CHECKED BY: [Signature]
 SCALE: 1" = 40'

40



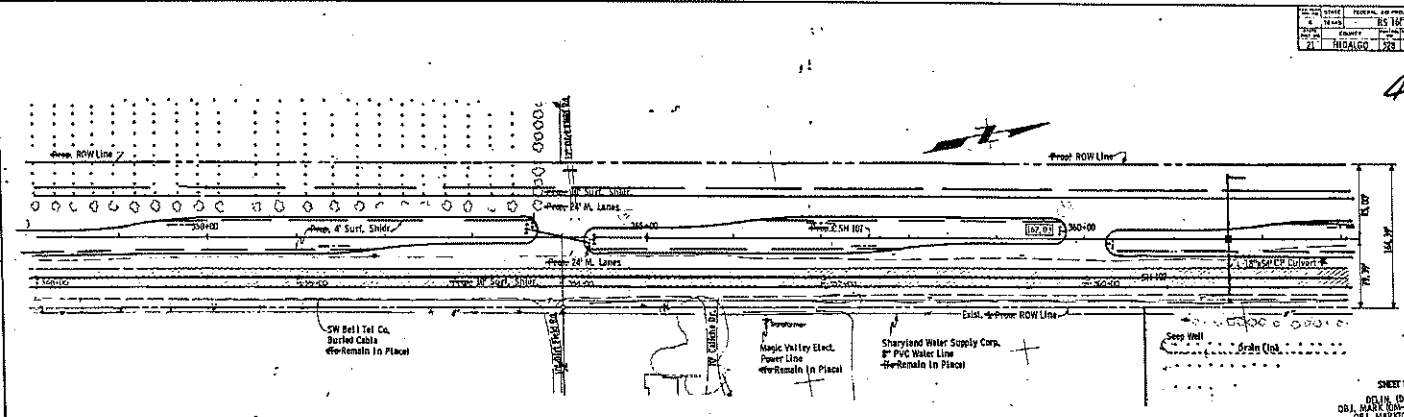
SHEET TOTALS
 DELIN. (D-SYMA) 2 EA.
 OBL. MARK (D-SYMA) 1 EA.
 OBL. MARK (D-SYMA) 5 EA.
 WING CHAN, POSTS B.S. 16 EA.

STATION	SHEET TOTALS			TOTAL
	CU	FCR	MCU	
31	1238			
40	1306			
50	1358			
60	1293			
70	1184			
80	1054			
90	925			
100	807			
110	716			
120	674			
130	632			
140	590			
150	548			
160	507			
170	465			
180	424			
190	382			
200	341			
210	300			
220	259			
230	218			
240	177			
250	136			
260	95			
270	54			
280	13			
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				
410				
420				
430				
440				
450				
460				
470				
480				
490				
500				
510				
520				
530				
540				
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560				
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580				
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600				
610				
620				
630				
640				
650				
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670				
680				
690				
700				
710				
720				
730				
740				
750				
760				
770				
780				
790				
800				
810				
820				
830				
840				
850				
860				
870				
880				
890				
900				
910				
920				
930				
940				
950				
960				
970				
980				
990				
1000				

Can Higgs

DATE	PROJECT NO.	SHEET NO.
10/15/68	RS 147 F	41
BY	CHKD BY	DATE
M.BALGO	J. D. SHURT	

41



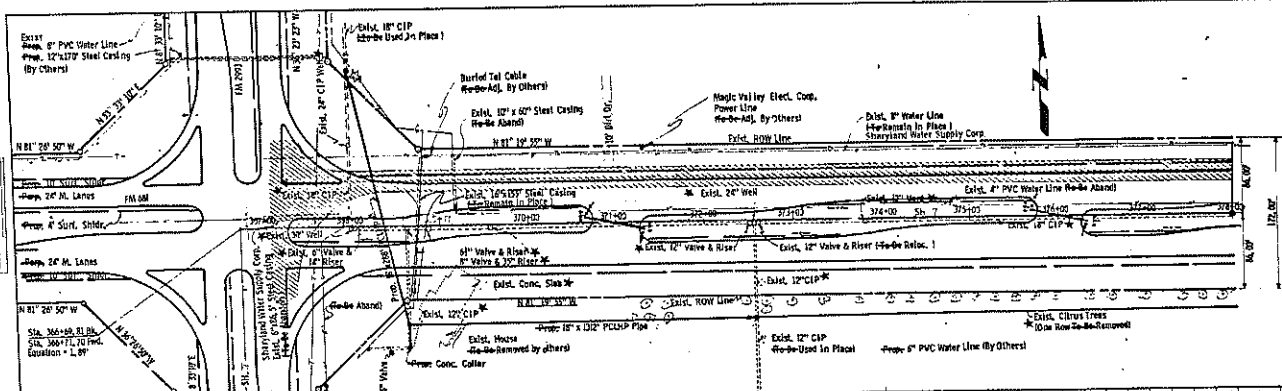
SHEET TOTALS
 D.M. 113 STA.
 D.B. 11400+39.81 STA.
 E.M.A. 11400+39.81 STA. + 160.44'

STA.	CUMULATIVE		SHEET TOTALS		REMARKS
	EST.	FIN.	EST.	FIN.	
1119					
1271					
1300					
1297					
1224					
1161					
961					
777					
777					
1222					
1450					
1816					
1919					
1775					
1244					
2013					
13					

SHEET TOTALS			TDN'
EST.	FIN.	TDN'	
1119	11400	1887	
1271	1224	1887	
1300	1300	1887	
1297	1297	1887	
1224	1224	1887	
1161	1161	1887	
961	961	1887	
777	777	1887	
777	777	1887	
1222	1222	1887	
1450	1450	1887	
1816	1816	1887	
1919	1919	1887	
1775	1775	1887	
1244	1244	1887	
2013	2013	1887	
13	13	1887	

FEDERAL HIGHWAY DISTRICT NO. 1
 COUNTY OF HIBALGO
 SHEET NO. 21
 PROJECT NO. NS 1003
 DRAWING NO. 21

42



SHEET TOTALS
 OBJ MARK (CON-20P) 4 EA
 OBJ MARK (CON-21R) 5 EA
 OBJ MARK (CON-22R) 5 EA
 WING CHAIN (POSTS 1/4, 5/1) 14 EA

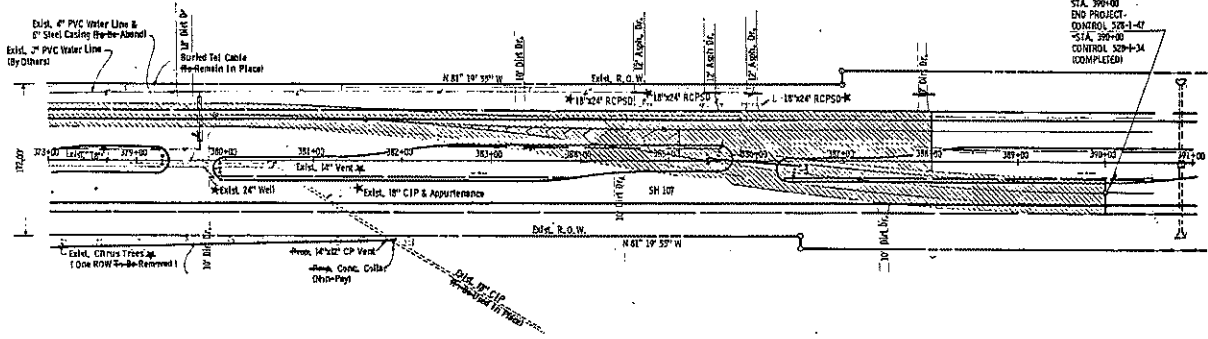
STATION	SHEET TOTALS		TOTAL
	STA.	END-STA.	
10	10	10	10
20	20	20	20
30	30	30	30
40	40	40	40
50	50	50	50
60	60	60	60
70	70	70	70
80	80	80	80
90	90	90	90
100	100	100	100
110	110	110	110
120	120	120	120
130	130	130	130
140	140	140	140
150	150	150	150
160	160	160	160
170	170	170	170
180	180	180	180
190	190	190	190
200	200	200	200
210	210	210	210
220	220	220	220
230	230	230	230
240	240	240	240
250	250	250	250
260	260	260	260
270	270	270	270
280	280	280	280
290	290	290	290
300	300	300	300
310	310	310	310
320	320	320	320
330	330	330	330
340	340	340	340
350	350	350	350
360	360	360	360
370	370	370	370
380	380	380	380
390	390	390	390
400	400	400	400
410	410	410	410
420	420	420	420
430	430	430	430
440	440	440	440
450	450	450	450
460	460	460	460
470	470	470	470
480	480	480	480
490	490	490	490
500	500	500	500
510	510	510	510
520	520	520	520
530	530	530	530
540	540	540	540
550	550	550	550
560	560	560	560
570	570	570	570
580	580	580	580
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620	620	620	620
630	630	630	630
640	640	640	640
650	650	650	650
660	660	660	660
670	670	670	670
680	680	680	680
690	690	690	690
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730	730	730	730
740	740	740	740
750	750	750	750
760	760	760	760
770	770	770	770
780	780	780	780
790	790	790	790
800	800	800	800
810	810	810	810
820	820	820	820
830	830	830	830
840	840	840	840
850	850	850	850
860	860	860	860
870	870	870	870
880	880	880	880
890	890	890	890
900	900	900	900
910	910	910	910
920	920	920	920
930	930	930	930
940	940	940	940
950	950	950	950
960	960	960	960
970	970	970	970
980	980	980	980
990	990	990	990
1000	1000	1000	1000

PROJECT NO. NS 1003
 DRAWING NO. 21
 SHEET NO. 42

11/11/01

DATE	21	REVISED	1
BY	HIRALGO	DATE	10/21/03
PROJECT	105 1601	DATE	10/21/03
NO.	21	DATE	10/21/03

12



SHEET TOTALS

DEBAR (D-SY) (M)	5 EA
OBJ MARK (D-SY) (M)	2 EA
OBJ MARK (D-SY) (M)	4 EA
WING CHAN POSTS (M)	12 EA

ITEM	QUANTITY			UNIT	TOTAL
	EST	ACT	DIFF		
1	405			CY	405
2	5534			CY	5534
3	12			STA	12
4				BM # 12	
5				R. R. Spike, 046	
6				54" I.D. SIA, 395-96	
7				Dist. - 156.44	

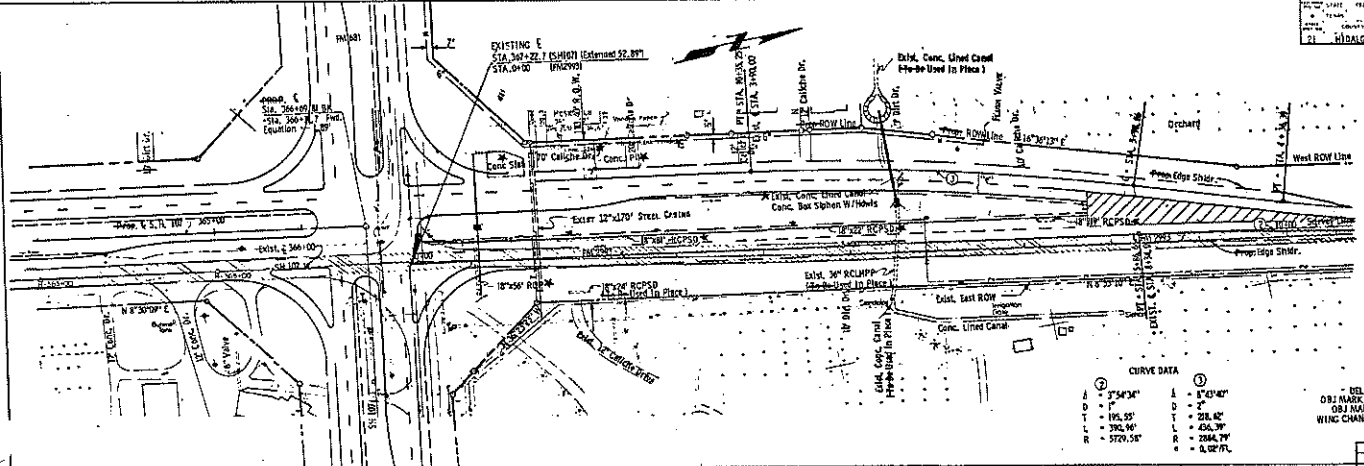
PLAN

PROFILES

Front

Rev. 11/21/03

44

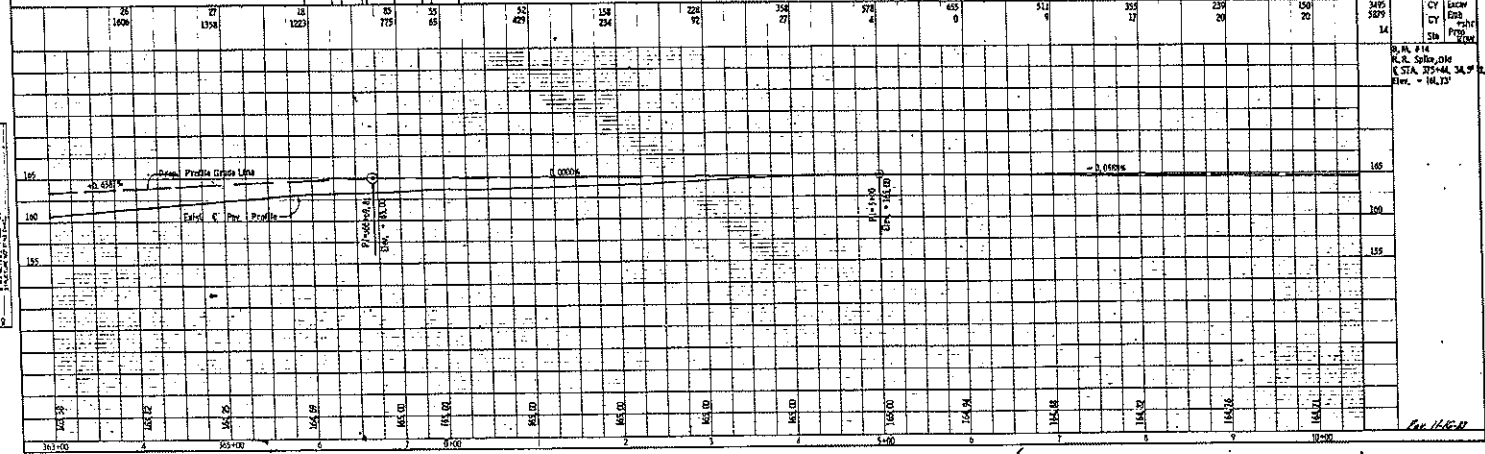


CURVE DATA

①	Δ = 2°54'34"	Δ = 8°43'40"
D	D = 2"	D = 2"
T	T = 195.95'	T = 218.40'
L	L = 392.90'	L = 436.79'
R	R = 570.58'	R = 2884.79'
		e = 0.027%

SHEET TOTALS

DELIN 10-SY/100	2 EA.
OBJ MARK 10-SY/100	2 EA.
OBJ MARK 500-SY/100	1 EA.
WING CHAIN POSTS 10, 5'	5 EA.



SHEET TOTALS

EST.	FIN.	THICK.	FEED
3475	5875		2 EA.
14			2 EA.
			1 EA.
			5 EA.

R.A. #14
 K.R. Sillis, O.H.
 (STA. 325+44.34)
 Elev. = 141.73'

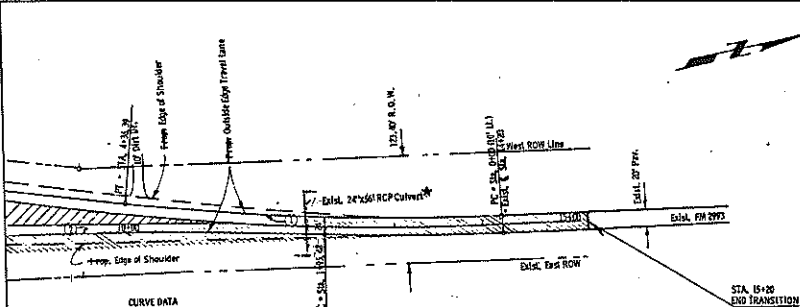
PLAN SCALE: 1" = 40'

PROFILE SCALE: 1" = 10'

Rev. 1/16/07

COUNTY: HIGHLAND
 PROJECT: RS 1401
 SHEET: 28 OF 28
 DATE: 10/20/03

45



CURVE DATA

①	A = 2147.40'	②	A = 2754.34'
B = 2'	D = 1'	D = 1'	P = 1'
T = 218.62'	L = 705.53'	L = 705.53'	L = 705.53'
L = 436.35'	L = 382.96'	L = 382.96'	L = 382.96'
R = 2864.79'	R = 5729.58'	R = 5729.58'	R = 5729.58'

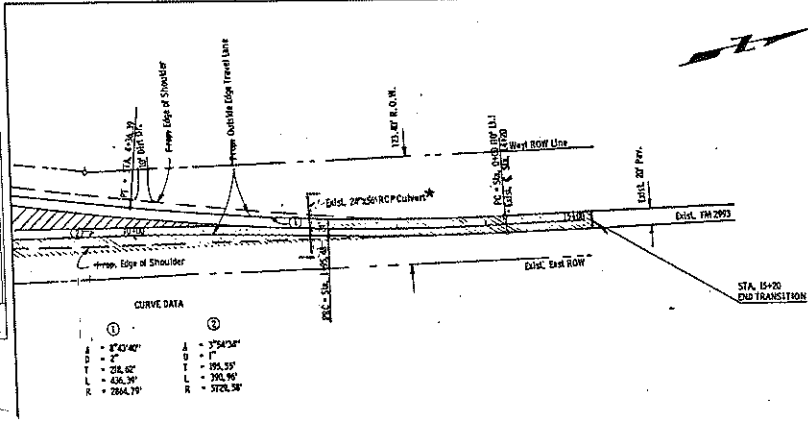
SHEET TOTALS
 2 EA
 2 EA

OBJ MARK (EM-25301A)
 WING CHAIR POSTS (6, 9)

STATION	SHEET TOTALS			ITEM
	EST	FIN	QUANTITY	
142+00	142	142	5.2	Excav
143+00	143	143		Excav
144+00	144	144		Excav
145+00	145	145		Excav
146+00	146	146		Excav
147+00	147	147		Excav
148+00	148	148		Excav
149+00	149	149		Excav
150+00	150	150		Excav
151+00	151	151		Excav
152+00	152	152		Excav
153+00	153	153		Excav
154+00	154	154		Excav
155+00	155	155		Excav
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172+00	172	172		Excav
173+00	173	173		Excav
174+00	174	174		Excav
175+00	175	175		Excav
176+00	176	176		Excav
177+00	177	177		Excav
178+00	178	178		Excav
179+00	179	179		Excav
180+00	180	180		Excav
181+00	181	181		Excav
182+00	182	182		Excav
183+00	183	183		Excav
184+00	184	184		Excav
185+00	185	185		Excav
186+00	186	186		Excav
187+00	187	187		Excav
188+00	188	188		Excav
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191+00	191	191		Excav
192+00	192	192		Excav
193+00	193	193		Excav
194+00	194	194		Excav
195+00	195	195		Excav
196+00	196	196		Excav
197+00	197	197		Excav
198+00	198	198		Excav
199+00	199	199		Excav
200+00	200	200		Excav

FOR 1/16/03

45



CURVE DATA

Station	Curve Data
10+00	1. R = 2743.42'
10+00	2. Δ = 2°
10+00	3. L = 288.25'
10+00	4. Δ = 436.30'
10+00	5. R = 2864.79'
15+00	6. R = 3754.24'
15+00	7. Δ = 2°
15+00	8. L = 288.25'
15+00	9. Δ = 390.90'
15+00	10. R = 3724.38'

SHEET TOTALS

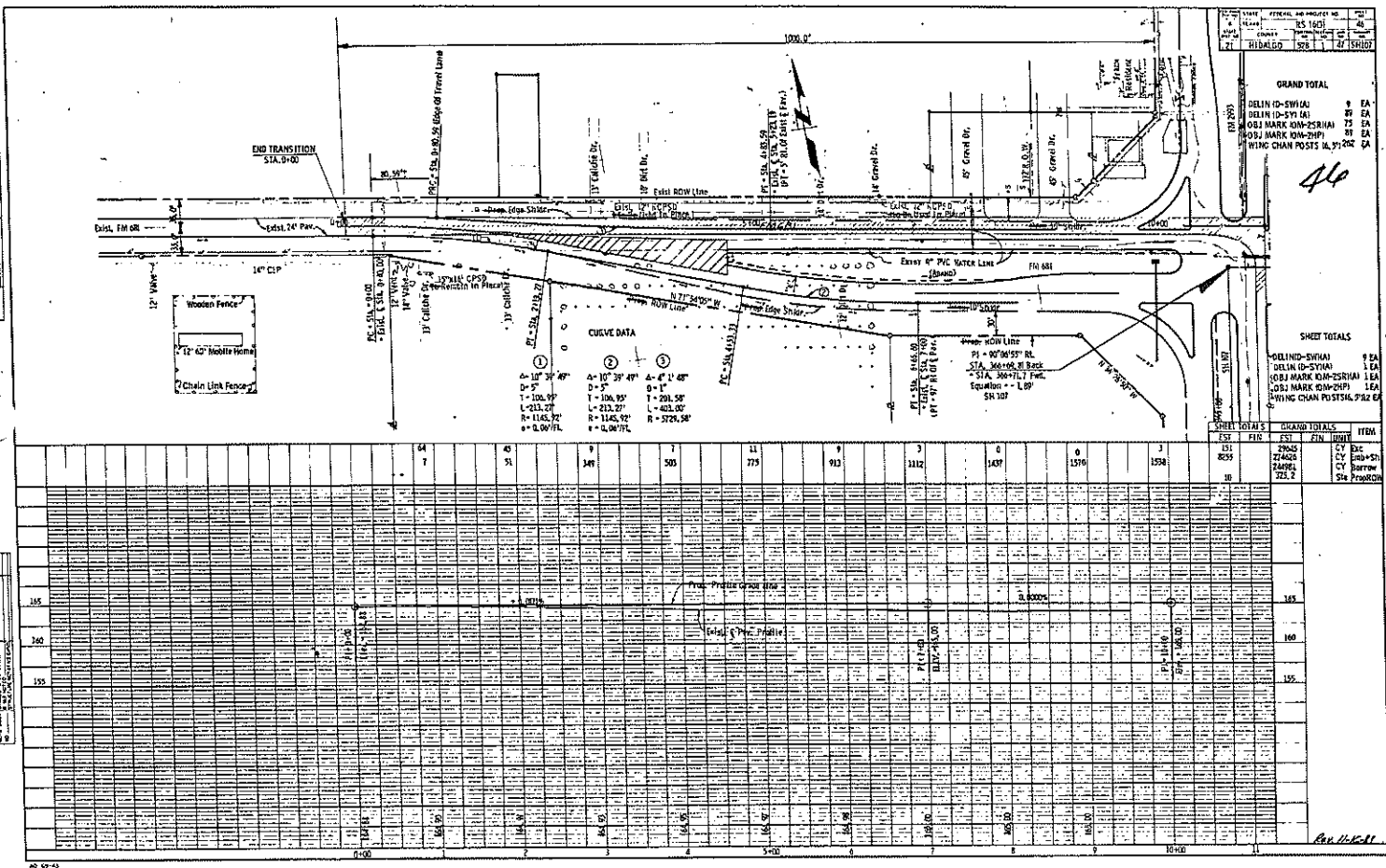
OR. MARK (RM-250/6)	2 EA
WING CHAIN POSTS (4, 9')	2 EA

STATION	SHEET TOTALS			ITEM
	EST.	FIN.	DIFF.	
10+00	310	143	CY	Excavation
10+00	5.2	Sh	Right	
10+00				Paving
10+00				
11+00				Excavation
11+00				
12+00				Excavation
12+00				
13+00				Excavation
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14+00				Excavation
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99+00				Excavation
99+00				
100+00				Excavation
100+00				

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PROJECT NO. 1550
 SHEET NO. 1550-155
 DATE: 10/15/11

PROJECT NO. 1550
 SHEET NO. 1550-155
 DATE: 10/15/11



DATE	10/15/11
SCALE	1" = 40'
PROJECT NO.	1550
SHEET NO.	1550-155

GRAND TOTAL

DELIN ID-SW1(A)	9	EA
DELIN ID-SW1(A)	28	EA
OBJ MARK NON-SURVIAN	75	EA
OBJ MARK NON-SHP1	81	EA
WING CHAN POSTS (A, 9) 202	24	EA

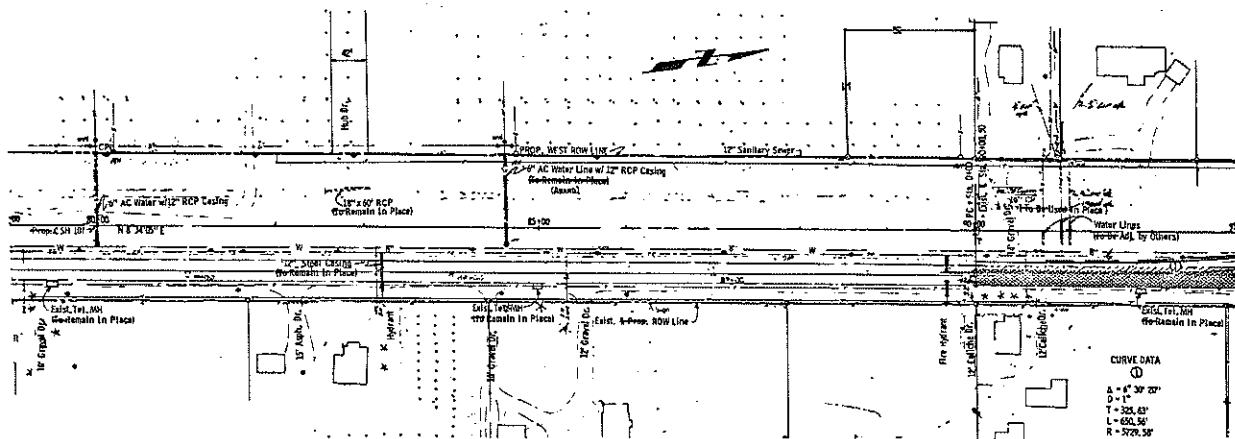
44

SHEET TOTALS

ORBLIND-SURVIAN	9	EA
DELIN ID-SURVIAN	1	EA
OBJ MARK NON-SURVIAN	1	EA
OBJ MARK NON-SHP1	1	EA
WING CHAN POSTS (A, 9) 202	1	EA

STATION	EST. VOL.		USAWAY TOTALS		ITEM
	EST.	FIN.	EST.	FIN.	
0+00	0	0	0	0	
10+00	1112	1437	2945	27465	CY Exc
20+00	1570	1570	2491	2491	CY Imp+S
30+00	1570	1570	2491	2491	CY Borrow
40+00	1570	1570	2491	2491	Sta. Prod/Con
50+00	1570	1570	2491	2491	
60+00	1570	1570	2491	2491	
70+00	1570	1570	2491	2491	
80+00	1570	1570	2491	2491	
90+00	1570	1570	2491	2491	
10+00	1570	1570	2491	2491	
11+00	1570	1570	2491	2491	
12+00	1570	1570	2491	2491	
13+00	1570	1570	2491	2491	
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96+00	1570	1570	2491	2491	
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100+00	1570	1570	2491	2491	

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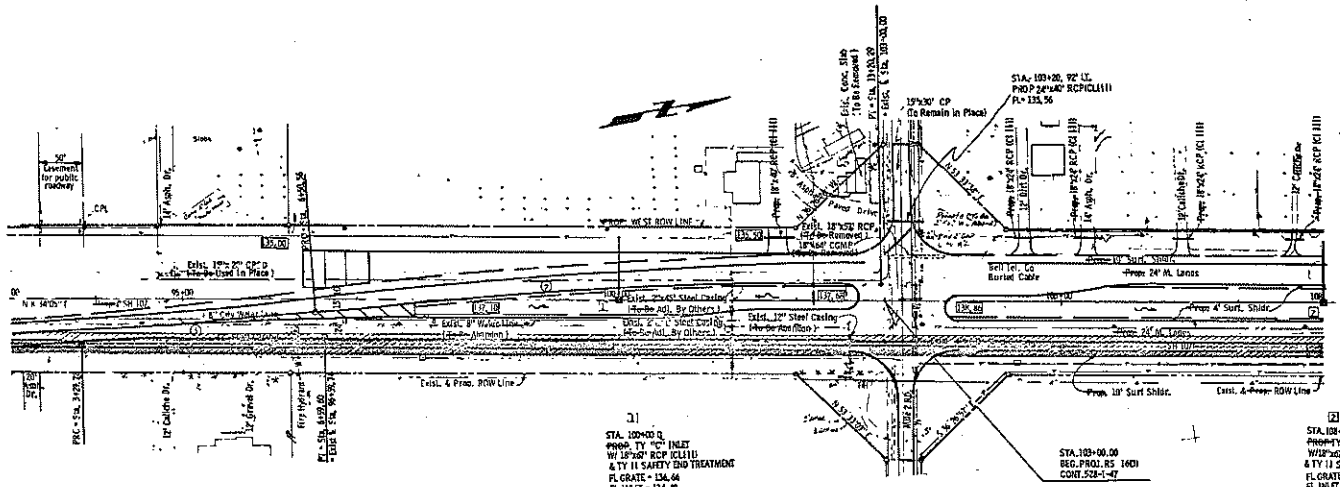


CURVE DATA
 Δ = 4° 39' 20"
 D = 1"
 T = 205.82'
 L = 650.90'
 R = 5728.50'

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 1 OF 24 SHEETS

47

DATE	BY	CHECKED BY	SCALE
12/1/21	BS/AD	BS/AD	AS SHOWN
21	HICAGO	2021	1:42 50' (1)



CURVE DATA

①	②	③
$\Delta = 30.70^\circ$	$\Delta = 31.31^\circ$	$\Delta = 31.31^\circ$
$DA = 12'$	$DA = 12'$	$DA = 12'$
$T = 324.67'$	$T = 324.22'$	$T = 324.22'$
$L = 692.56'$	$L = 692.74'$	$L = 692.74'$
$R = 5729.58'$	$R = 5729.58'$	$R = 5729.58'$

①
 STA. 100+00 R.
 PROP. TY. 12" INLET
 W/ 18" RCP (COLL.)
 & TY II SAFETY END TREATMENT
 FL GRATE = 134.64
 FL INLET = 134.49
 FL PIPE = 134.49

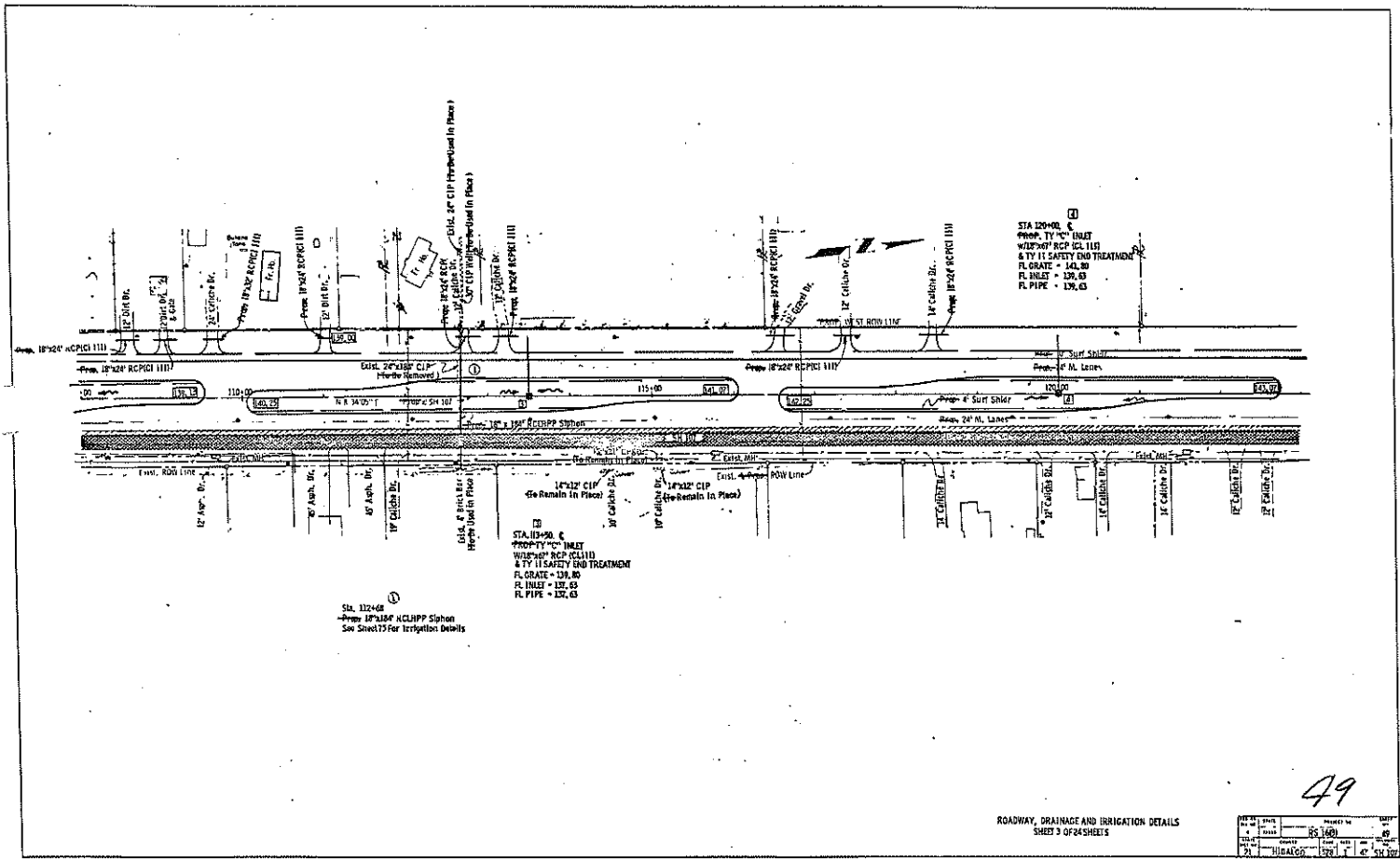
②
 STA. 100+00.00
 REG. PROJ. RS 1401
 CONT. 528-1-47

③
 STA. 100+00 E
 PROP. TY. 12" INLET
 W/ 18" RCP (COLL.)
 & TY II SAFETY END TREATMENT
 FL GRATE = 134.32
 FL INLET = 134.15
 FL PIPE = 134.15

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 2 OF 24 SHEETS

48

DATE	BY	CHECKED	APPROVED
11/15/03			
SCALE	AS SHOWN		
PROJECT	HIDALGO		



STA 120+00
 PROP. TY "C" INLET
 W/12" RCP (CL 113)
 & TY 11 SAFETY END TREATMENT
 FL GRATE = 139.80
 FL INLET = 139.63
 FL PIPE = 139.63

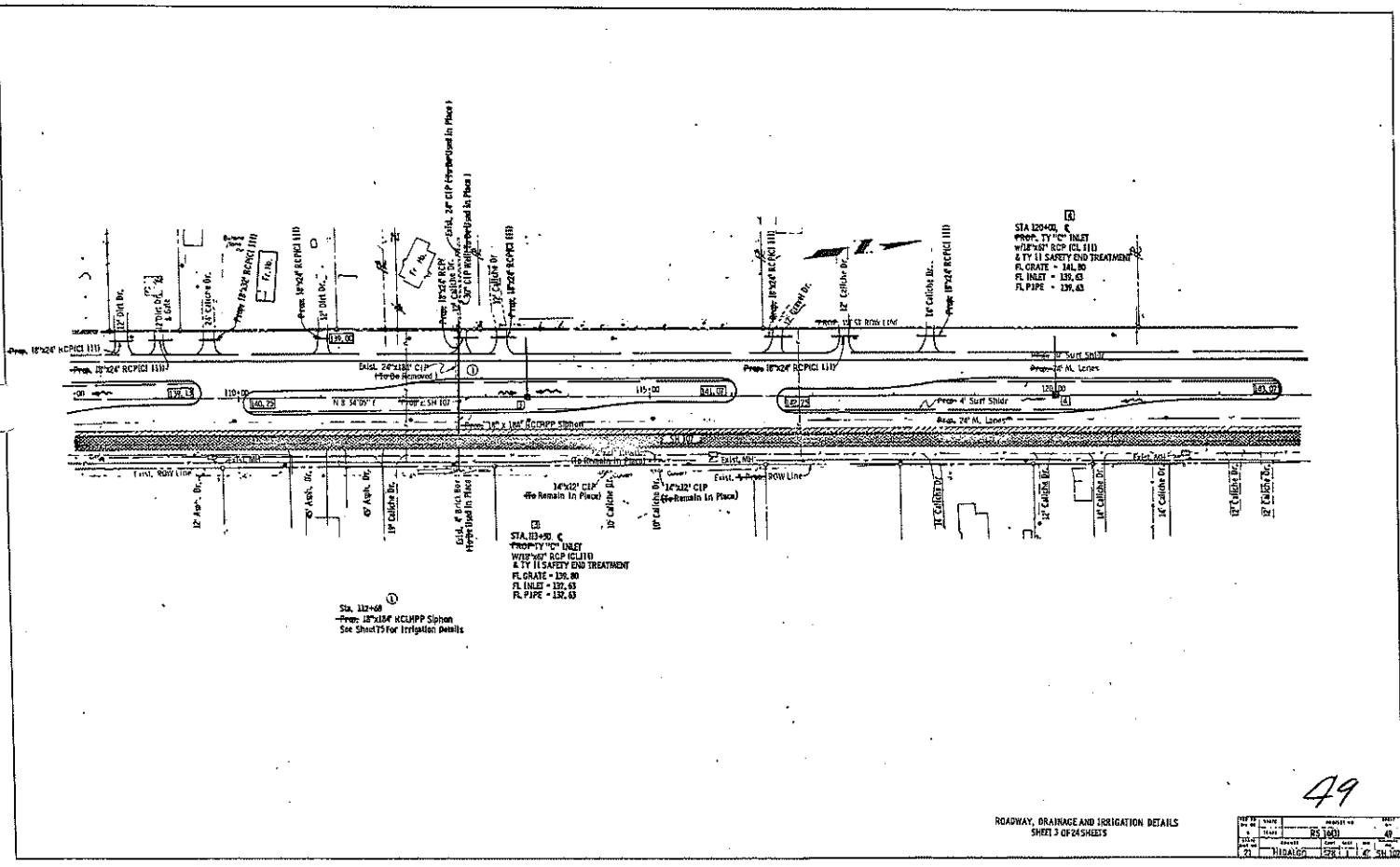
STA 124+50.0
 PROP. TY "C" INLET
 W/12" RCP (CL 113)
 & TY 11 SAFETY END TREATMENT
 FL GRATE = 139.80
 FL INLET = 139.63
 FL PIPE = 139.63

STA 122+68
 Prop. 12" RCP NCLRPP Siphon
 See Sheet 75 For Irrigation Details

49

ROADWAY DRAINAGE AND IRRIGATION DETAILS
 SHEET 3 OF 24 SHEETS

DATE	REVISED BY	DATE
12/1/88	RS (AR)	88
12/1/88	RS (AR)	88
12/1/88	RS (AR)	88
12/1/88	RS (AR)	88



STA 129+00
 Prop. 12" CI INLET
 WITH 18" RCP (CL 111)
 & TY II SAFETY END TREATMENT
 FL GRATE = 141.80
 FL INLET = 139.65
 FL PIPE = 137.45

STA 124+00 C
 Prop. 12" CI INLET
 WITH 18" RCP (CL 111)
 & TY II SAFETY END TREATMENT
 FL GRATE = 136.80
 FL INLET = 134.65
 FL PIPE = 132.45

STA 112+00
 Prop. 18" RCP NCHPPP Siphon
 See Sheet 15 for Irrigation Details

ROADWAY, DRAINAGE AND IRRIGATION DETAILS
 SHEET 3 OF 24 SHEETS

49

DATE	BY	CHECKED	DATE
12/15/00	RS/MS	MS	12/15/00
PROJECT		STATION	
21 HIRALCO		STATION	

Sta. 124+00 to Sta. 125+00
 Prop. 12" x 12" PC/SP
 See Sheet 04 for Irrigation Details

Sta. 133+56 to Sta. 134+00
 Prop. 12" x 12" PC/SP
 See Sheet 04 for Irrigation Details

Sta. 126+70
 Prop. 12" x 12" x 14" CONC. BOX SIPHON
 SEE CONC. SIPHON DETAILS
 SHEET 1 OF 5 SHEETS

Sta. 127+50 S
 Prop. 12" x 12" INLET
 W/2" x 1" SAFETY END TREATMENT
 FL GRADE = 144.58
 FL PIPE = 142.41

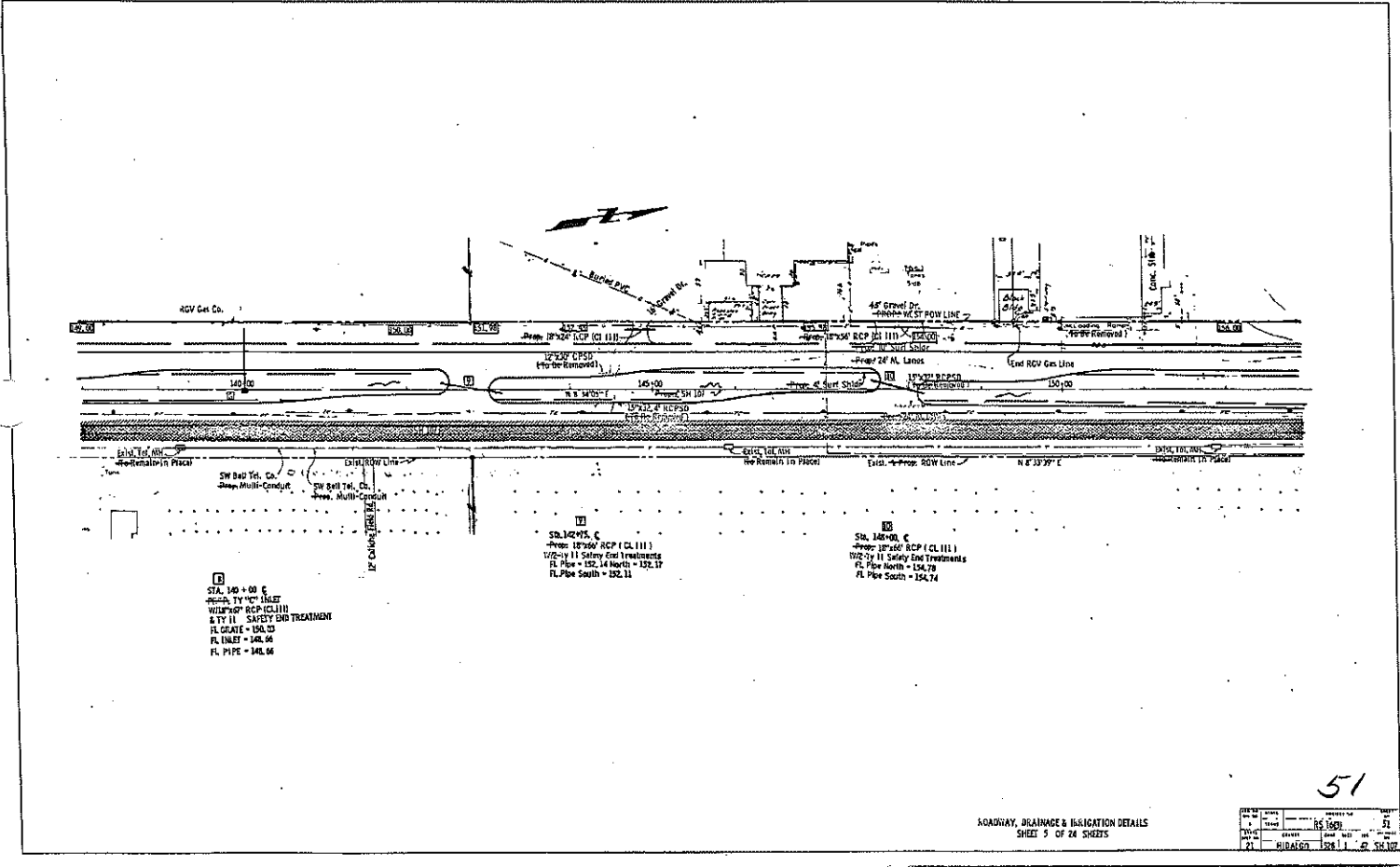
Sta. 127+07 TO STA. 129+59
 Prop. 12" x 22" PC/SP
 SEE SHEET 04 FOR IRRIGATION DETAILS

Sta. 129+00 C
 Prop. 18" x 60" RCP/CL 111
 W/2" x 1" SAFETY END TREATMENT
 FL PIPE = 147.28

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 4 OF 24 SHEETS

DATE	BY	PROJECT NO.	SHEET
21	HIDALGO	52811	4

50



1
 STA. 140+00 C
 18" x 24" TY 1111
 W/12" RCP (CL 111)
 & TY 11 SAFETY END TREATMENT
 FL. GRADE = 154.23
 FL. LINE = 148.66
 FL. PIPE = 148.66

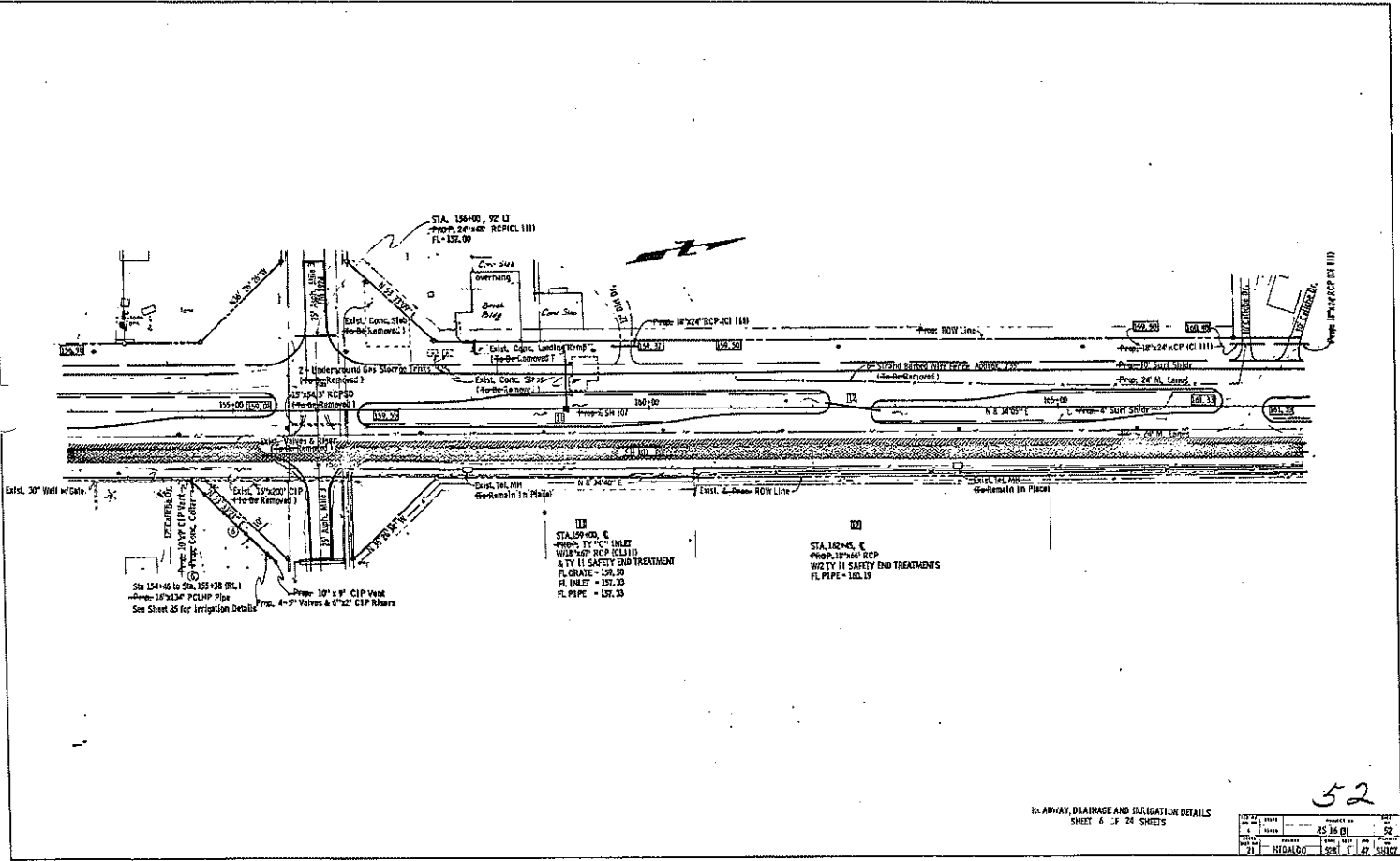
2
 STA. 142+15 C
 18" x 24" RCP (CL 111)
 W/2" x 11 Safety End Treatment
 FL. PIPE = 152.14 North = 152.12
 FL. PIPE South = 152.11

3
 STA. 148+00 C
 18" x 24" RCP (CL 111)
 W/2" x 11 Safety End Treatment
 FL. PIPE NORTH = 154.28
 FL. PIPE SOUTH = 154.74

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 5 OF 24 SHEETS

DATE	BY	CHKD	APP'D
1/15/00			
21	HIDALGO	28	11

51



Sta 154+46 to Sta. 155+38 (DCL)
 Prop. 18" x 18" PCLMP Pipe
 See Sheet 55 for Irrigation Details

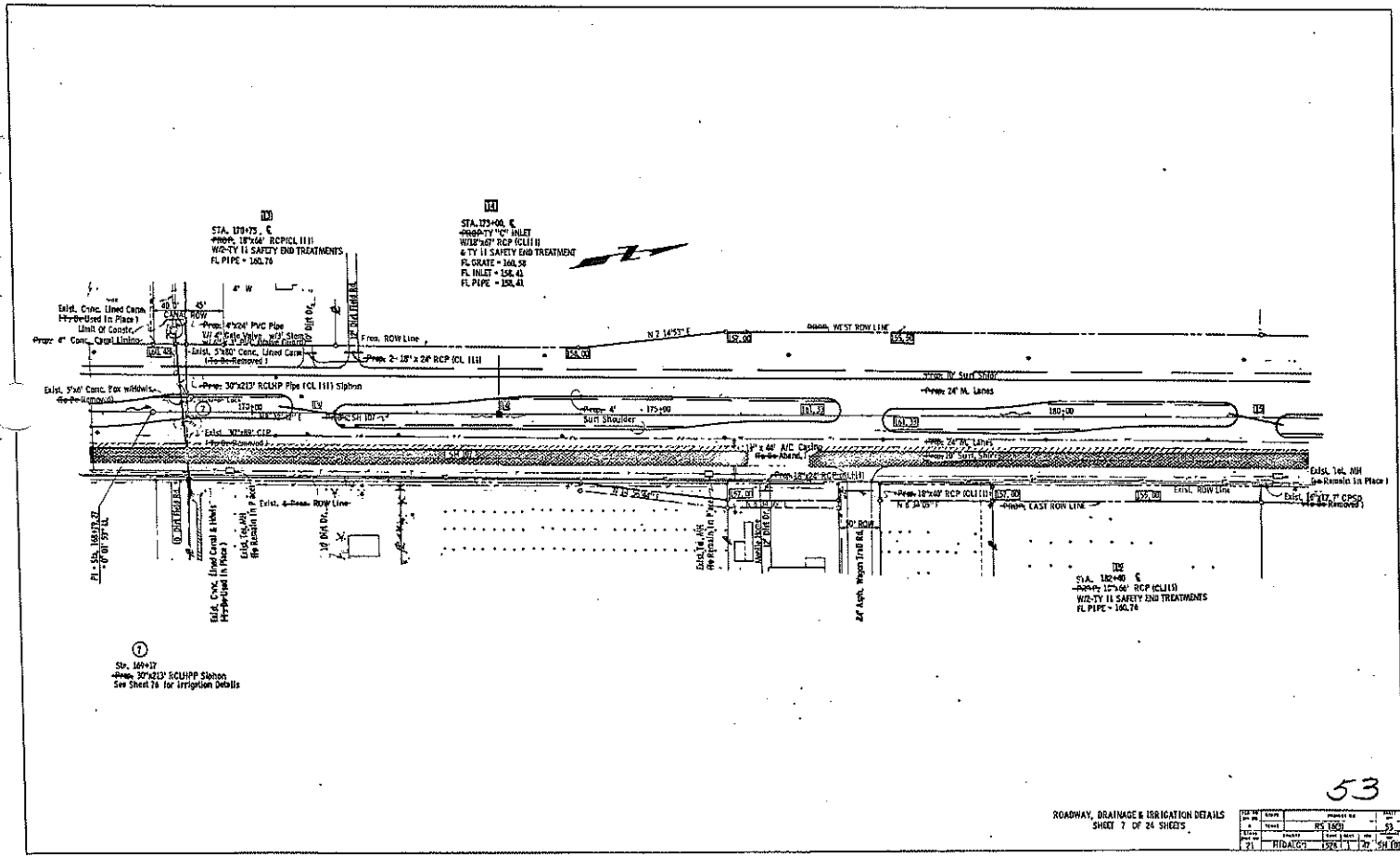
III
 STA. 159+00, E
 Prop. 12" x 12" INLET
 W/PROP. 18" x 18" RCP
 & TY II SAFETY END TREATMENT
 FL. ORATE = 159.30
 FL. INLET = 159.35
 FL. PIPE = 159.35

II
 STA. 162+45, E
 Prop. 18" x 18" RCP
 W/ TY II SAFETY END TREATMENTS
 FL. PIPE = 161.19

ROADWAY, DRAINAGE AND IRRIGATION DETAILS
 SHEET 5 OF 24 SHEETS

DATE	REVISED	BY	NO.
10/22/03			
11/10/03			
12/15/03			
01/20/04			
02/10/04			
03/15/04			
04/20/04			
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12/31/25			

52



111
 STA. 109+75.0
 48\"/>

112
 STA. 109+00.0
 48\"/>

115
 STA. 109+00.0
 48\"/>

113
 STA. 109+17.0
 48\"/>

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 7 OF 24 SHEETS

DATE	BY	CHECKED	SCALE
12/1/00	RS	RS	AS SHOWN
12/1/00	RS	RS	AS SHOWN
12/1/00	RS	RS	AS SHOWN

53

STA. 124+00 E
 PROPERTY "C" INLET
 W/2-TY II SAFETY END TREATMENTS
 FL GRATE = 154.10
 FL INLET = 154.10
 FL PIPE EAST = 154.10
 FL PIPE WEST = 154.10

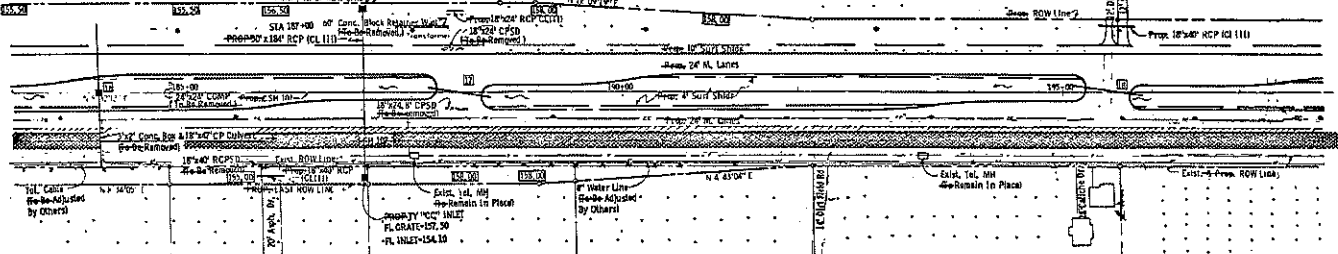
III
 STA. 128+10 E
 PROPOSED RCP (CL 111)
 W/2-TY II SAFETY END TREATMENTS
 FL PIPE NORTH = 153.84
 FL PIPE SOUTH = 154.08

III
 STA. 129+50 E
 PROPOSED RCP (CL 111)
 W/2-TY II SAFETY END TREATMENTS
 FL PIPE NORTH = 152.25
 FL PIPE SOUTH = 152.14

PROPERTY "C" INLET
 FL GRATE=157.50
 FL INLET=154.10
 Prop. W/2 ROW LINE

STA 127+00 OF CONC. BLOCK RETAINING WALL
 PROPOSED RCP (CL 111)

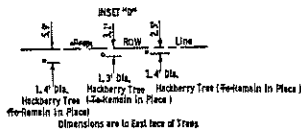
PROPOSED RCP (CL 111)
 18" DIA. CP 50
 (Elev. 154.10)



ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 6 OF 24 SHEETS

54

DATE	BY	PROJECT NO.	1027
10/21/10	RS/LSB	1027	54
21	HIDALGO	1027	1027



Sta. 204+33.00
 Size: 30" x 30" x 12' x 12' x 12' x 12'
 See SHEET 17 for Irrigation Details

Sta. 202+10.00
 Prop. 12" x 36" RCP (S. 1111)
 12" x 36" RCP (S. 1111)
 FL PIPE NORTH = 164.81
 FL PIPE SOUTH = 164.79

Prop. 2" x 5' Strand Barbed Wire Fence
 (To Be Removed By Others)

Prop. 4" Surf. Shield

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

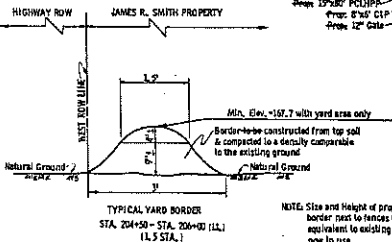
Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)

Prop. 12" x 36" RCP (S. 1111)
 Prop. 12" x 36" RCP (S. 1111)



ROADWAY DRAINAGE AND IRRIGATION DETAILS
 SHEET 9 OF 24 SHEETS

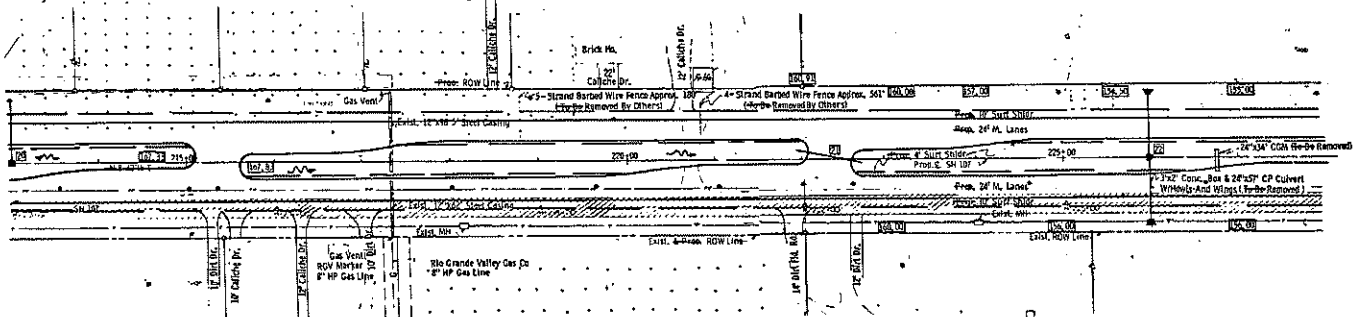
DATE	BY	PROJECT NO.	SHEET NO.
11/14/00	RS	3400	9
11/14/00	RS	3400	9
11/14/00	RS	3400	9

55

20
 STA. 218+00.0
 PROPERTY "C" INLET
 W/ 2" X 2" RCP (CL111)
 & TY 11 SAFETY END TREATMENT
 FL GRATE = 152.25
 FL INLET = 153.25
 FL PIPE = 154.00

21
 STA. 222+30.0
 PROPERTY "C" RCP (CL111)
 W/ TY 11 SAFETY END TREATMENTS
 FL PIPE SOUTH=154.00
 FL PIPE NORTH=161.00

22
 STA. 224+00.0
 PROPERTY "C" INLET
 W/ 2" X 2" RCP (CL111) 11. & RT.
 W/ TY "B" CONC. HEADWALLS (CH-118)
 FL GRATE = 154.50
 FL INLET = 154.00
 FL PIPE @ INLET = 154.00
 FL PIPE EAST = 154.00
 FL PIPE WEST = 154.00



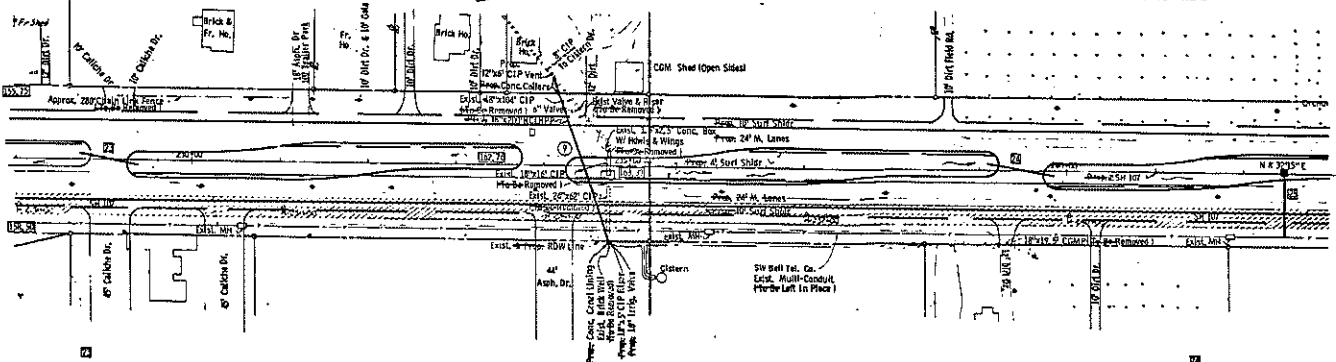
ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 10 OF 24 SHEETS

56

DATE	BY	CHECKED	DATE
10/11/01	RS	RS	10/11/01
10/11/01	RS	RS	10/11/01
10/11/01	RS	RS	10/11/01

Sta 224+44.5
 18" x 20" RCPSP Pipe
 See Sheet 114 for Irrigation Details

Sta. 242+50.0
 18" x 20" RCP INLET
 W/ 11" x 11" SAFETY END TREATMENT
 FL GRATE - 142.36
 FL INLET - 140.41
 FL PIPE - 141.41



Sta. 229+00.0
 18" x 20" RCP INLET
 W/ 11" x 11" SAFETY END TREATMENTS
 FL PIPE - 140.31

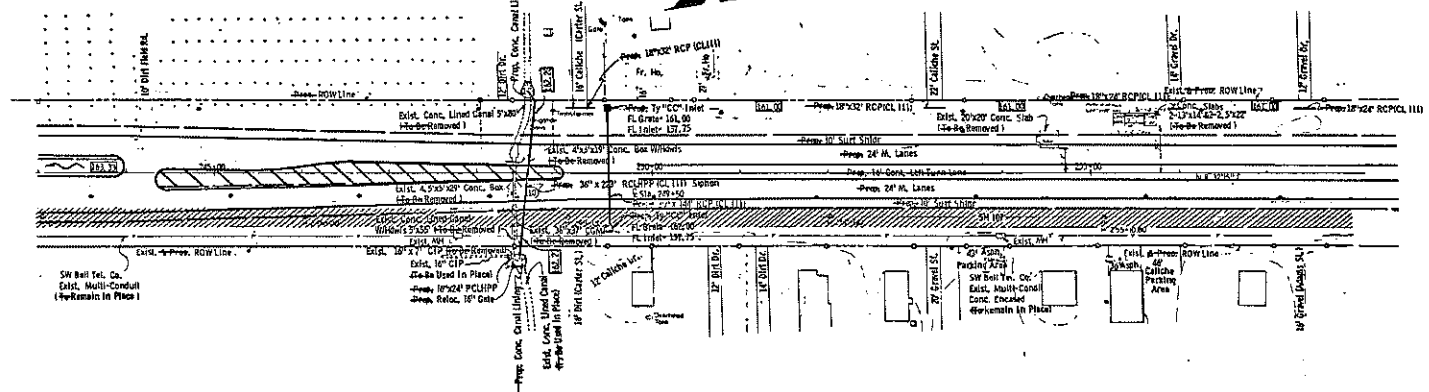
Sta. 229+50.0
 18" x 20" RCP INLET
 W/ 11" x 11" SAFETY END TREATMENTS
 FL PIPE - 142.76

ROADWAY, DRAINAGE & IRRIGATION DETAILS
 SHEET 11 OF 24 SHEETS

57

DATE	BY	CHECKED BY	SCALE
11/14/03	RS	RS	1" = 40'
TITLE	DATE	BY	SCALE
11/14/03	11/14/03	RS	1" = 40'

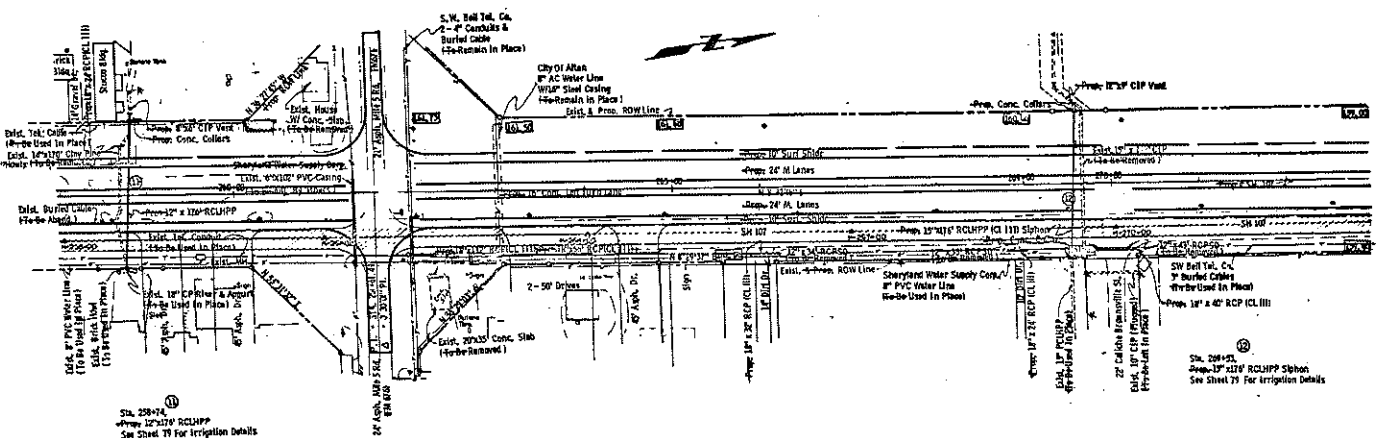
Sta. 24+91.1
 Prop. 36"x22" RCLPPP Slopes
 See Sheet 18 For Irrigation Details



ROADWAY, DRAINAGE AND IRRIGATION DETAILS
 SHEET 12 OF 24 SHEETS

DATE	PROJECT NO.	SHEET
NOV 1957	35 1050	12
SCALE	DATE	BY
1"=40'	NOV 1957	W. J. ...
21	1228	12

58



Sta. 28+14
Prop. 12" x 12" RCUHPP
See Sheet 79 For Irrigation Details

Sta. 28+33
Prop. 12" x 12" RCUHPP Station
See Sheet 79 For Irrigation Details

ROADWAY, DRAINAGE AND IRRIGATION DETAILS
SHEET 13 OF 24 SHEETS

59

DATE	BY	CHECKED	PROJECT NO.	SHEET
12/15/11	BS	BS	11111	13
21	HYDRAID	208	1	24 SH