

COLORADO DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF ~~PROPOSED~~ AS CONSTRUCTED FEDERAL AID PROJECT NO. STA 0342-019 STATE HIGHWAY NO. 34 WELD COUNTY

P.E., R.O.W., & UTILITIES UNDER
PROJECT NO. CX-CY 03-0034-19
SUBACCOUNT: 90656

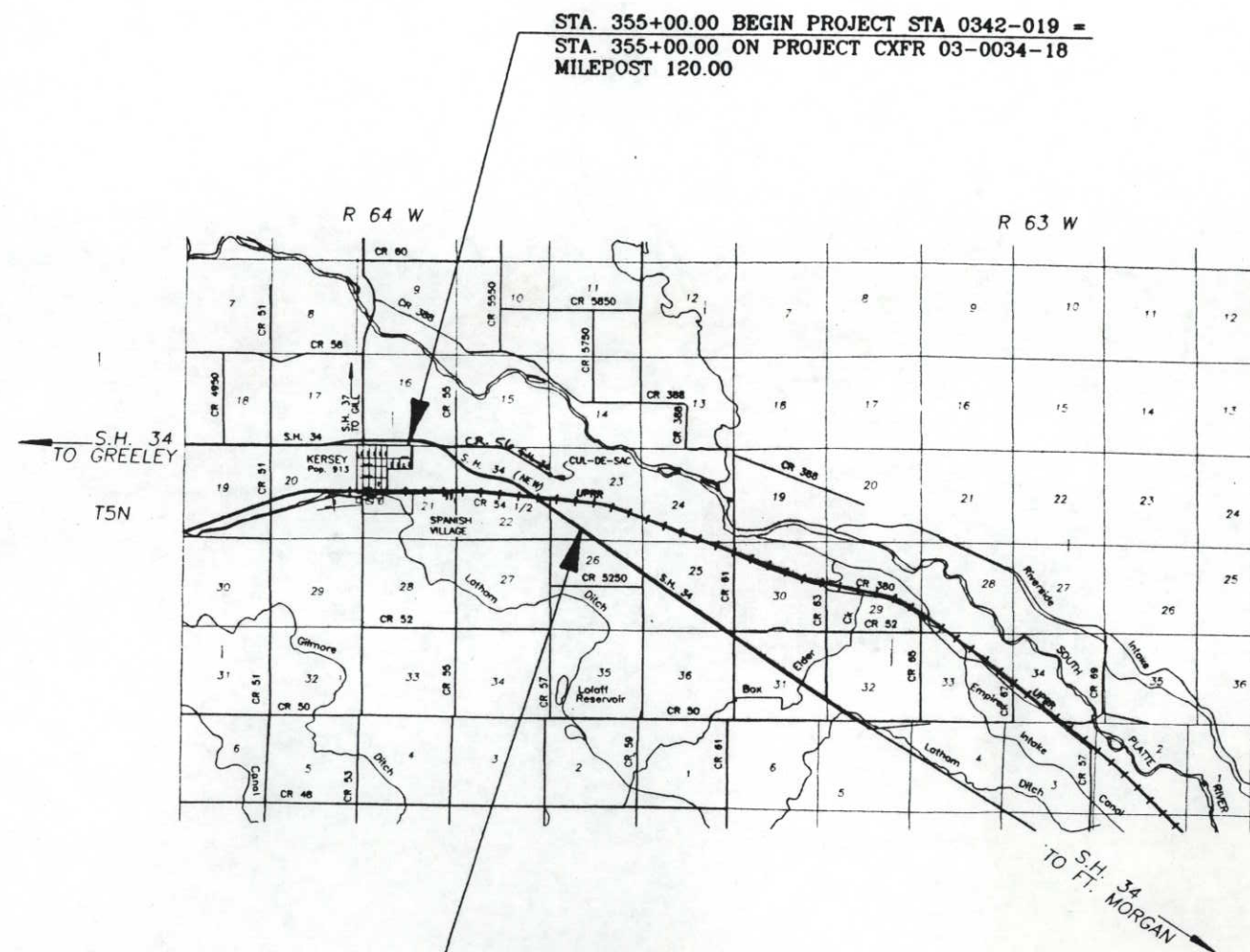
FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
VIII	COLO.	STA 0342-019	1

AS CONSTRUCTED		
NO REVISIONS	REVISED <u>11-29-95</u>	VOID

REVISIONS		
R-1	01/20/94	SHEET NOS. 1, 8 & 46
R-2	02/01/94	SHEET NOS. 1, 2, 6, 7, 9, 12, 14, 17, 23, 24, 26, 28, 30, 44, 74, & 90

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	
	LIN. FT.	
STA. 355+00.0 BEGIN PROJECT STA 0342-019 = STA. 355+00.00 ON PROJECT CXFR 03-0034-18 MILEPOST 120.00	10,795.61	
STA. 462+95.61 END PROJECT STA 0342-019 MILEPOST 122.045		
TOTAL	10,795.61	
SUMMARY	LIN. FT.	MILES
ROADWAY (NET LENGTH)	10,795.61	2.045
PROJECT GROSS LENGTH	10,795.61	2.045
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	2' 00' 00"	
MAXIMUM GRADE	0.23% 0.9950 %	
MINIMUM S.S.D. - HORIZONTAL	>1000'	
MINIMUM S.S.D. - VERTICAL	>1000'	
MAXIMUM DESIGN SPEED	60 MPH	
2013 DESIGN TRAFFIC VOLUME	{ DHV = 610 ADT = 4700 TRUCKS = 18%	
1993 ADT = 3600		
CLEAR ZONE DISTANCE = 32 FT.		



STA. 462+95.61 END PROJECT STA 0342-019 =
MILEPOST 122.045



**AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN**

SHEET NO.

R-2	R-1	1
R-2	R-1	2
		3-4
		5
R-2	R-1	6-9
		10
		11
R-2		12
R-2		13
R-2		14
R-2		15
R-2		16
R-2		17
R-2		18
R-2		19
		20-21
R-2		22-24
		25
R-2		26
R-2		27-28
		29
R-2		30
R-2		31-45
R-1		46-57
		58-62
		63
		64-67
R-2		68-75
R-2		76-91

INDEX OF SHEETS

TITLE SHEET
STANDARD PLANS LIST
TYPICAL SECTIONS AND DETAIL OF ACCEL/DECEL LANES
GENERAL NOTES
SUMMARY OF APPROXIMATE QUANTITIES
STRUCTURE QUANTITIES
SUMMARY OF EARTHWORK AND REMOVAL OF STRUCTURE
AND OBSTRUCTION TABULATION AND CONTAMINATED
MATERIAL STOCKPILE LOCATIONS
STABILIZATION PLAN AND TABULATION OF BITUMINOUS
AND CONCRETE PAVING QUANTITIES
TABULATION OF DELINEATORS AND FENCING
DETAIL OF RAILROAD CROSSING AND LIST OF MATERIALS
DETAIL OF SILT FENCE AND DETAIL OF RAILROAD
CROSSING GUARDRAIL
INTERSECTION DETAILS AND TURNING MOVEMENTS
CONCRETE PAVEMENT JOINTS
INLET DETAILS AND PIPE CONNECTION DETAIL
DITCH PROFILES, DITCH QUANTITIES, AND CONCRETE
LINED DITCH PROFILE
COORDINATE GEOMETRY
CONSTRUCTION PHASING DETAILS
CROSSOVER "A" AND DOUBLE LANE TRANSITION DETAILS
PERMANENT TRANSITION DETAIL (EASTBOUND & WESTBOUND)
DETAILS OF EXISTING S.H. 34
EXISTING S.H. 34 AND CUL DE SAC DETAIL
EXISTING S.H. 34 AND RETENTION POND DETAIL
PLAN AND PROFILE SHEETS
RIGHT OF WAY
SIGNING TABULATIONS
TABULATION OF PAVEMENT MARKINGS
EXISTING S.H. 34 PERMANENT SIGNING
NEW S.H. 34 PERMANENT SIGNING
CONSTRUCTION PHASING SIGNING

AS CONSTRUCTED INFORMATION

CONTRACTOR	Castle Rock Construction Co.
Project	ENGINEER Mike Wells
(Project or Resident)	
PROJECT STARTED	3/16/94
PROJECT COMPLETED	11/29/95
AS CONSTRUCTED PLANS	APPROVED <u>RE</u>
TITLE	DATE 5/19/95

C.D.L./REGION 4/CONST. SUBACCNT. 10196

UTILITIES:
CENTRAL WELD COUNTY WATER DISTRICT
PUBLIC SERVICE CO.
ASSOCIATED NATURAL GAS
U. S. WEST
POUDRE VALLEY REA
SNYDER OIL CORPORATION

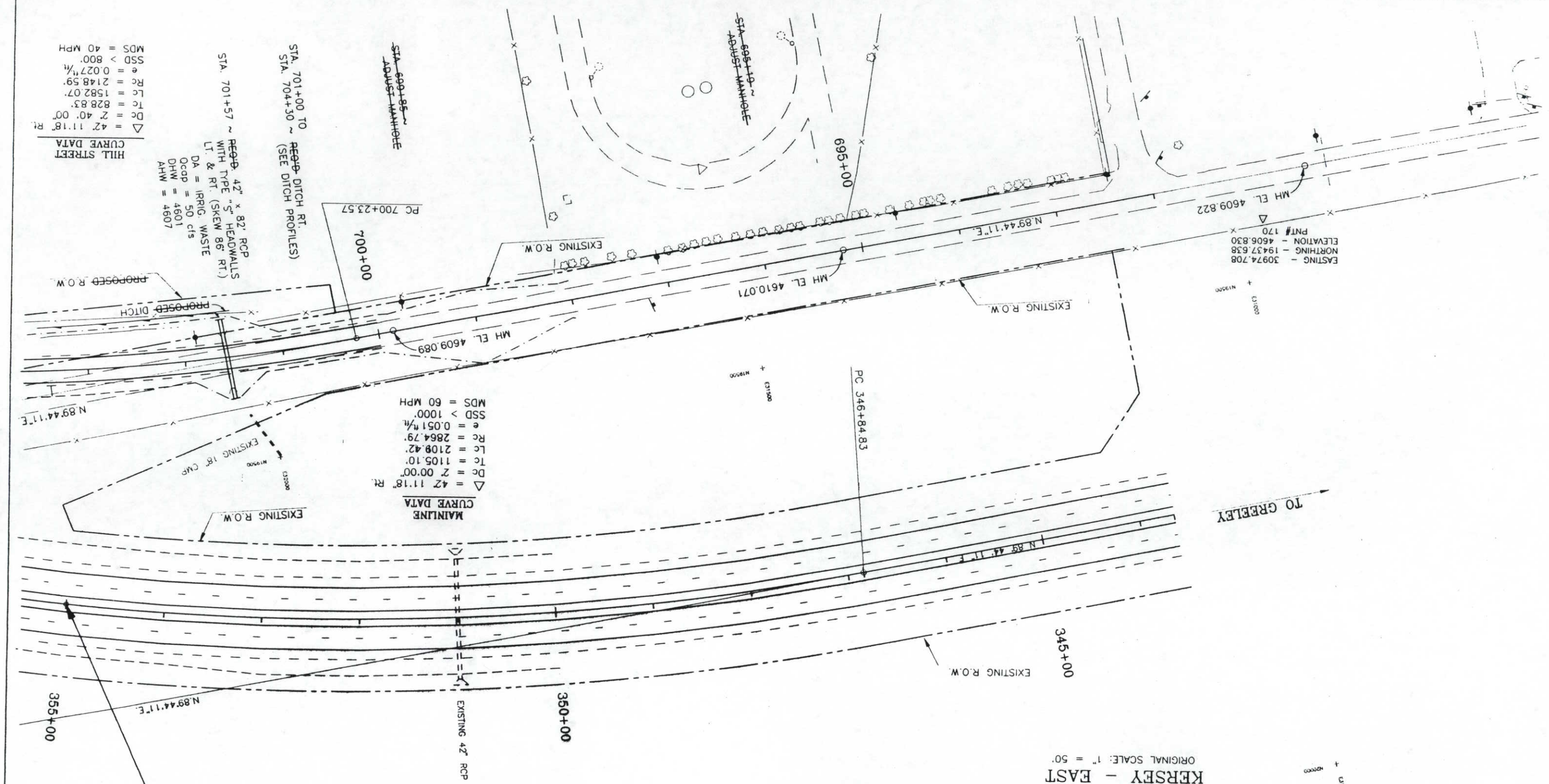


T.5 N., R.64 W., 6TH P.M.

AS CONSTRUCTED		NO REVISIONS	REVISED 11-29-95	VOID
FED. ROAD REGION	VIII	COLO.	STA 0342-019	SHEET NO. 31
DMSION		PROJ. NO.		

KERSEY - EAST
ORIGINAL SCALE: 1" = 50'

STA. 355+00 BEGIN PROJ. STA. 0342-019 =
STA. 355+00 ON PROJ. CXFR 03-0034-18 =
MILEPOST 120.00



MAINLINE
CURVE DATA
Δ = 42° 11' 18" Rt.
Dc = 2' 00' 00"
Tc = 1105.10'
Lc = 2108.42'
Rc = 2864.79'
e = 0.051 1/4%
SSD > 1000'
MDS = 60 MPH

PC 346+84.83
PC 700+23.57
STA. 701+57 ~ RECD 42" x 82" RCP
WITH TYPE "S" HEADWALLS
LT. & RT. (SKEW 86° RT.)
DA = IRRIG. WASTE
Occp = 50 cfs
DHW = 4601
AHW = 4607

HILL STREET
CURVE DATA
Δ = 42° 11' 18" Rt.
Dc = 2' 40' 00"
Tc = 828.83'
Lc = 1582.07'
Rc = 2148.59'
e = 0.027 1/4%
SSD > 800'
MDS = 40 MPH

EASTING - 30974.708
NORTHING - 19437.638
ELEVATION - 4606.830
PNT# 170

MH EL. 4609.822

MH EL. 4610.071

MH EL. 4609.089

PROPOSED R.O.W.

EXISTING R.O.W.

EXISTING 18" CUP

EXISTING 42" RCP

EXISTING R.O.W.

EXISTING R.O.W.

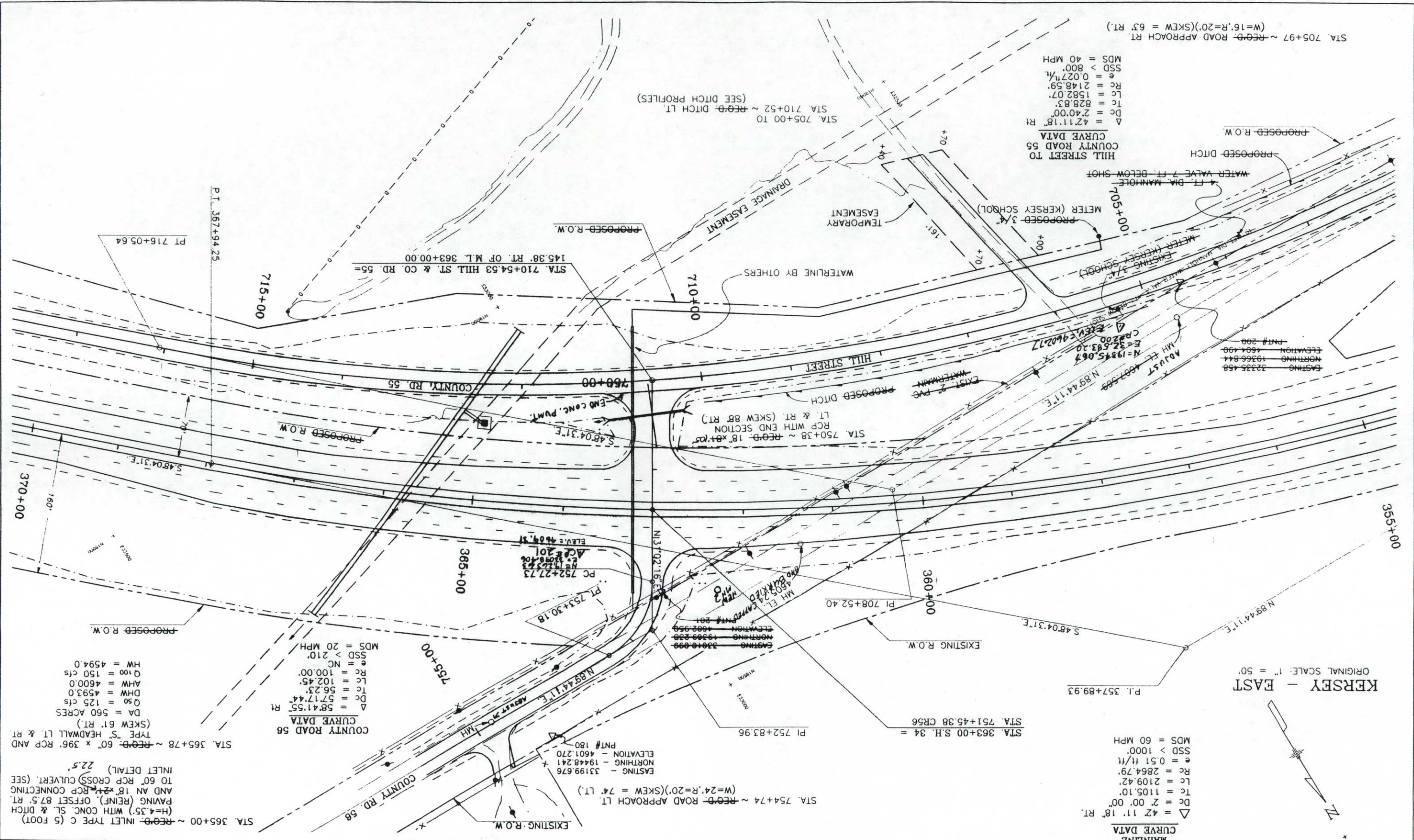
EXISTING R.O.W.

KERSEY - EAST
ORIGINAL SCALE: 1" = 50'



MAINLINE
CURVE DATA
 $\Delta = 42^\circ 11' 18''$ RT.
DC = 2' 00' 00"
LC = 2109.42'
RC = 2864.79'
e = 0.51 ft/ft
SSD > 1000'
MDS = 60 MPH

COUNTY ROAD 55
CURVE DATA
 $\Delta = 42^\circ 11' 18''$ RT.
DC = 2' 40' 00"
LC = 828.83'
RC = 1582.07'
e = 0.027 ft/ft
SSD > 800'
MDS = 40 MPH
STA. 705+97 ~ RECD- ROAD APPROACH RT.
(W=16', R=20')(SKEW = 63° RT.)

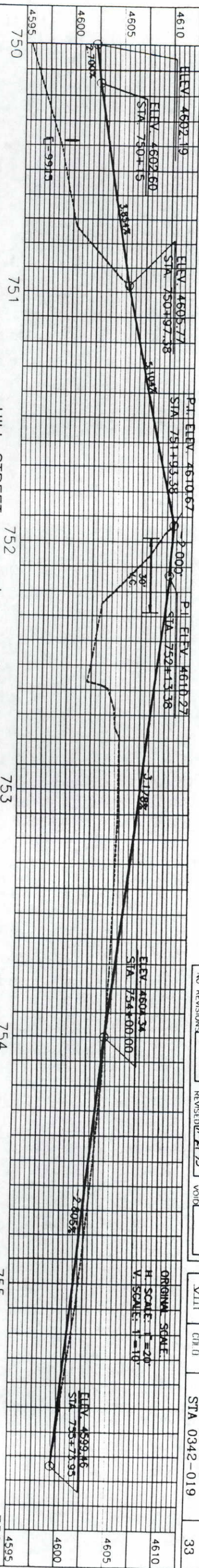


NO REVISIONS		AS CONSTRUCTED	
REVISED 11-14-95		VOID	
FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
VIII	COLO.	STA 0342-019	32

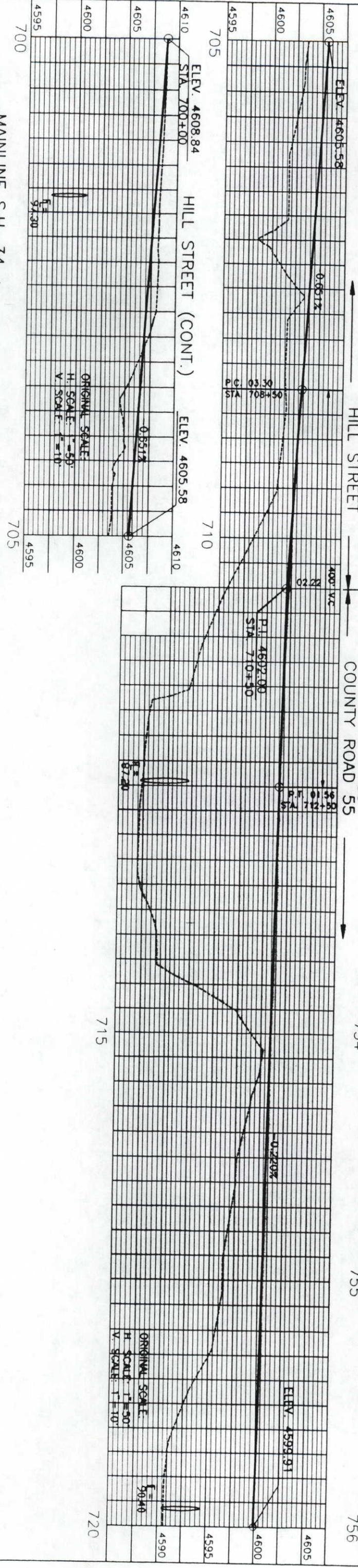
T.5 N., R.64 W., 6TH P.M.

COUNTY ROAD 56

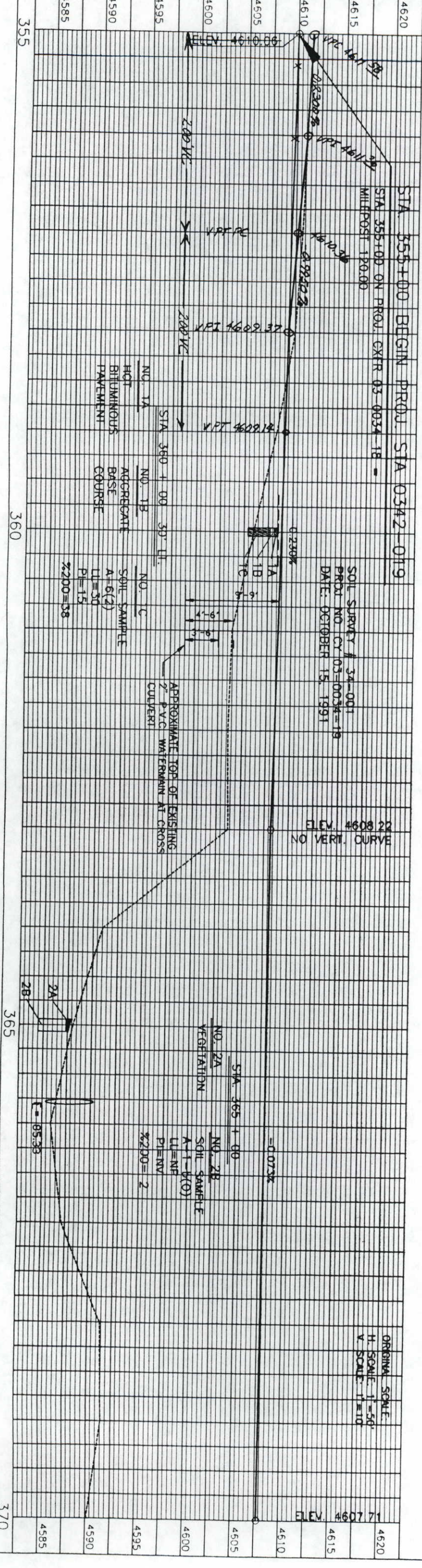
AS CONSTRUCTED		FED. ROAD DIVISION	PROJECT NO.	SHEET NO.
NO. REVISIONS	REVISED	CITY	STA 0342-019	33



HILL STREET (CONT.)



MAINLINE S.H. 34



CURVE DATA
COUNTY ROAD 55
 $\Delta = 49.20.31"$ R
 $D_c = 10'00.00"$
 $T_c = 263.18'$
 $L_c = 493.42'$
 $R_c = 572.96'$
 $e = 0.040$ ft/ft
SSD > 450'
MDS = 40 MPH

STA 373+55 TO
STA 386+00 ~ REQB. DITCH RT.
(SEE DITCH PROFILES)
STA 720+73 TO
STA 725+39 ~ REQB. DITCH LT.
(SEE DITCH PROFILES)

POINT 300
EASTING 33743.891
NORTHING 18505.717
ELEVATION 1602.580

PC 719+09.24

PROPOSED R.O.W.

370+00

S.48°04'31"E

EXIST. 2 1/2" PVC WATERMAIN

STA. 371+85 ~ REQB. 48" x 352' RCP AND TYPE "S" HEADWALL LT. & RT. (SKEW 61° RT.)
DA = 90 ACRES
Q50 = 80 cfs
DHW = 4596.0
AHW = 4598.2
Q100 = 95 cfs
HW = 4596.8

STA. 373+55 ~ REQB. INLET TYPE C (5 FT.) (H=2.80') WITH CONC. SL. & DITCH PAVING (REINF.) OFFSET 89' RT. AND 18"x120" RCP CONNECTING INLET DETAIL.)
5+00 12"x24" CSP UNDER RD APPROACH LT.
1+00 REQB. ROAD APPROACH RT.
(W=30' R=25')

PROPOSED R.O.W.

WATERLINE BY OTHERS

TRASH PIT

375+00

TS 375+33.46

SC 377+83.46

WELL #1

HOUSE

GARAGE

GARAGE

HOUSE

TANK

722+05 REQB. ROAD APPROACH LT.
(W=10' R=20') AND
18" x 30' RCP SIDE DRAIN
WITH END SECTIONS
723+40 REQB. ROAD APPROACH LT.
(W=10' R=20') AND
18" x 28' RCP SIDE DRAIN
WITH END SECTIONS
724+77 18" x 45' RCP CROSS CULVERT
SKEWED 45° LT.
WITH END SECTIONS LT. & RT.

PROPOSED R.O.W.

TEMPORARY EASEMENT

PROPOSED DITCH

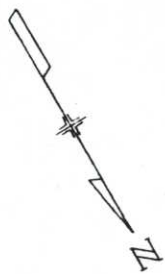
PROPERTY LINE

380+00

MAINLINE
CURVE DATA
 $\Delta = 34.10.01"$ L
 $\theta_s = 2.30.00"$ L
 $T_s = 1005.69'$
 $E_s = 133.19'$
 $L_s = 250.00'$
 $LT = 166.68'$
 $ST = 83.35'$
 $C = 29.10.01"$ L
 $D_c = 2.00.00"$
 $T_c = 745.35'$
 $L_c = 1458.35'$
 $R_c = 2864.79'$
 $e = 0.051$ ft/ft
SSD > 1000'
MDS = 60 MPH

CONTAMINATED SOIL PLACEMENT AREAS

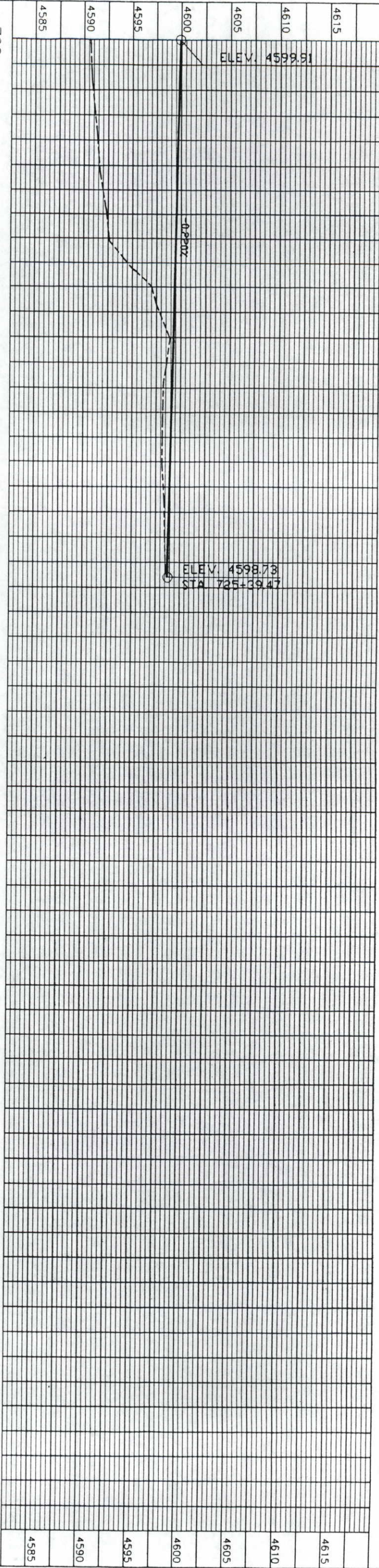
KERSEY - EAST
ORIGINAL SCALE: 1" = 50'



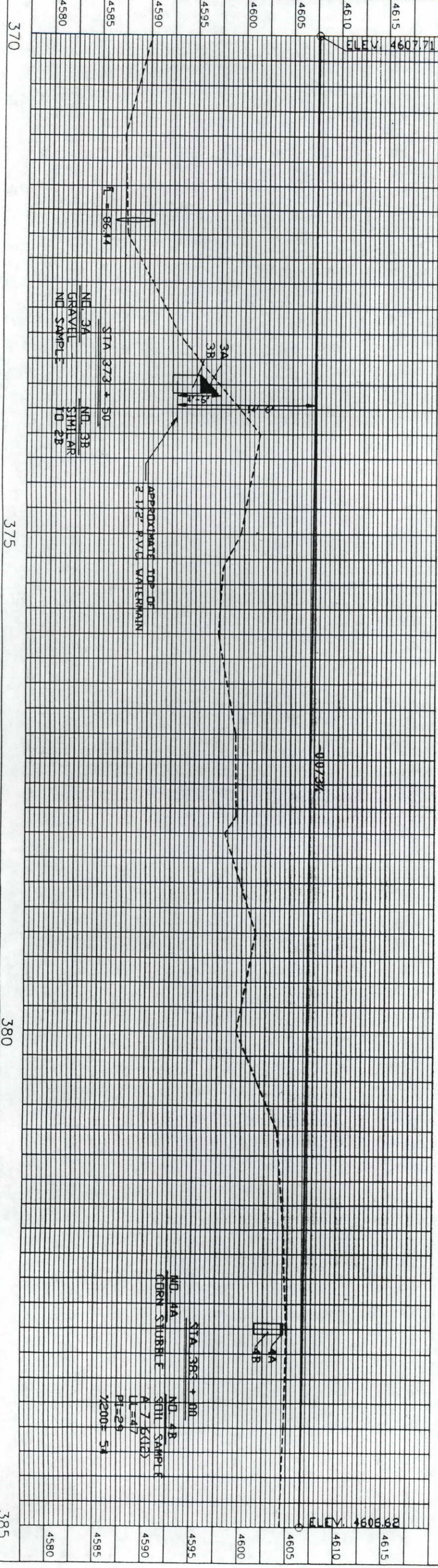
SHEET NO.	PROJ. NO.	FED. ROAD REGION	AS CONSTRUCTED	NO REVISIONS	
		DIVISION	VOID	REVISION	DATE
34	STA 0342-019	COLO.			

AS CONSTRUCTED		FILED ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
NO REVISIONS	11/29/95	REVISED	VOID	STA 0342-019	35

COUNTY ROAD 55



MAINLINE S.H. 34



DATE	12/30/93
DRAWN BY	
CHECKED BY	
APPROVED BY	
SCALE	



KERSEY - EAST

ORIGINAL SCALE: 1" = 50'

**MAINLINE
CURVE DATA**

Δ	= 34°10'01"	Lt
Θ_s	= 2°30'00"	Lt
T_s	= 1005.69'	
E_s	= 133.19'	
L_s	= 250.00'	
LT	= 166.68'	
ST	= 83.35'	
DC	= 29°10'01"	Lt
D_c	= 200.00'	
T_c	= 745.35'	
L_c	= 1458.35'	
R_c	= 2864.79'	
e	= .051 ft/ft	
SSD	> 1000'	
MDS	= 60 MPH	

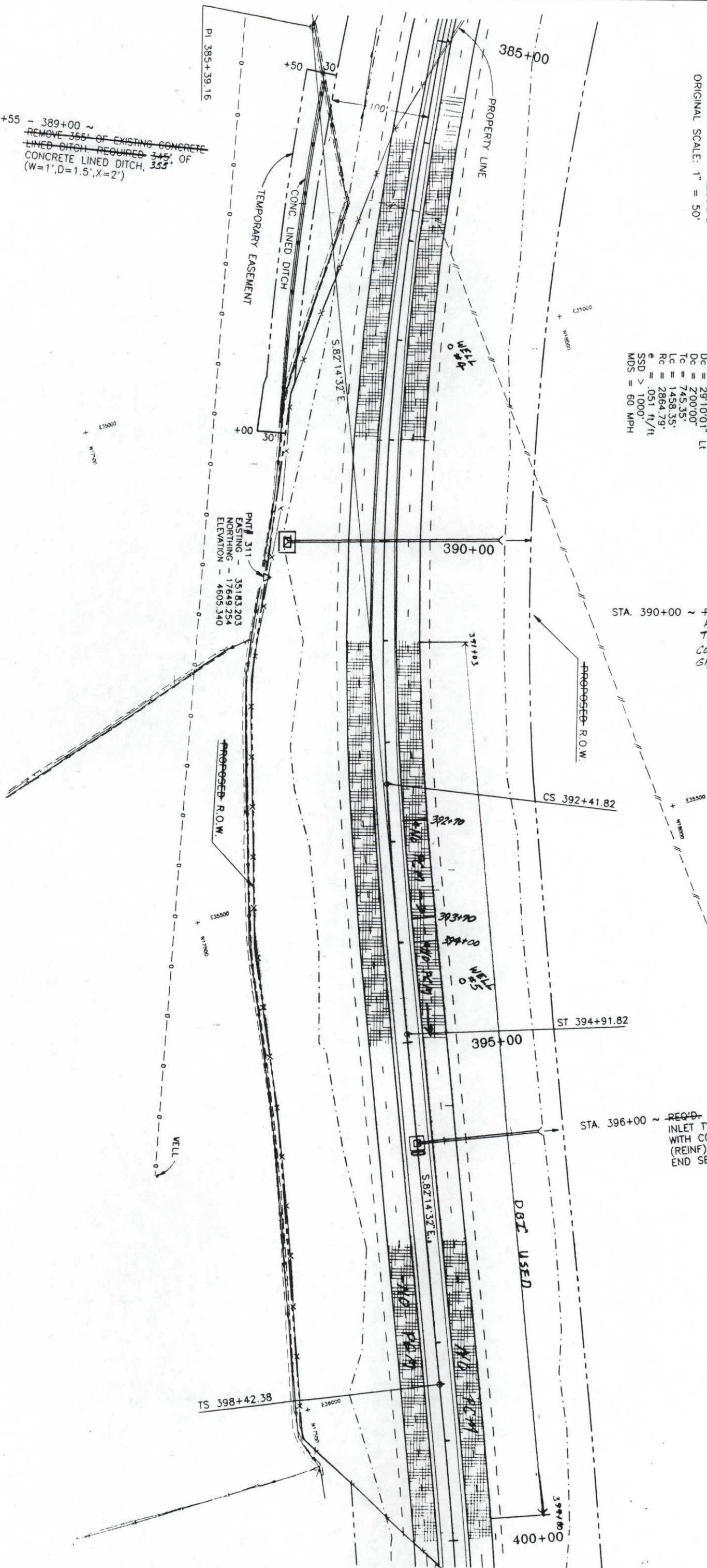
STA. 390+00 ~ REQ'D. 24" x 216" RCP
AND END SECTION LT. & RT.
TYPE C INLET RT. H=5' WITH
CONC. SLOPE AND DITCH PAVING
GROUTED RIPRAP LT.

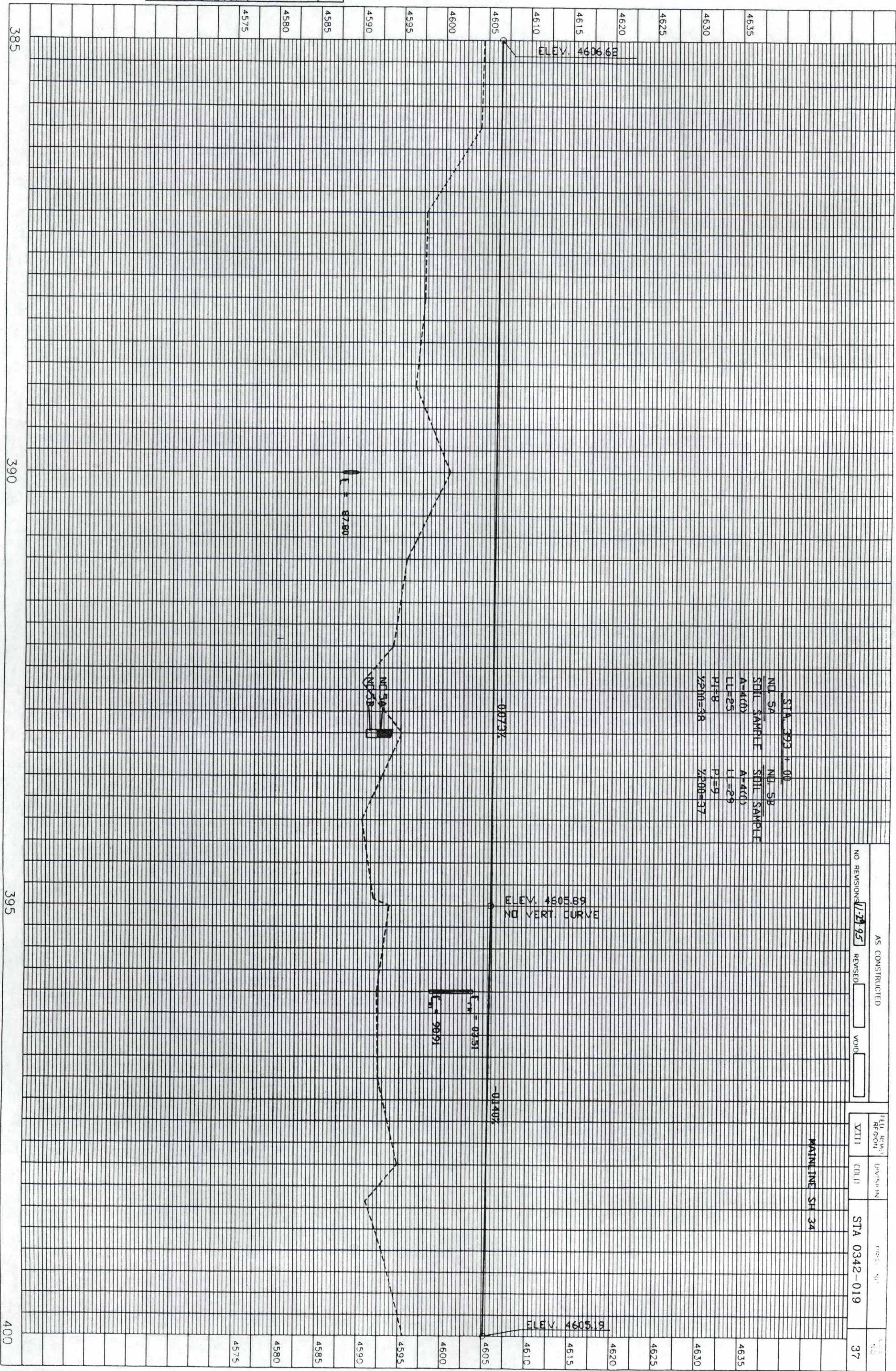
STA. 396+00 ~ REQ'D. 24" x 126" RCP AND
INLET TYPE C (5 FOOT)(H=4.6'),
WITH CONC. SL. & DITCH PAVING
(REINF) AND DIKE IN MEDIAN AND
END SECTION - LT. WITH RIPRAP

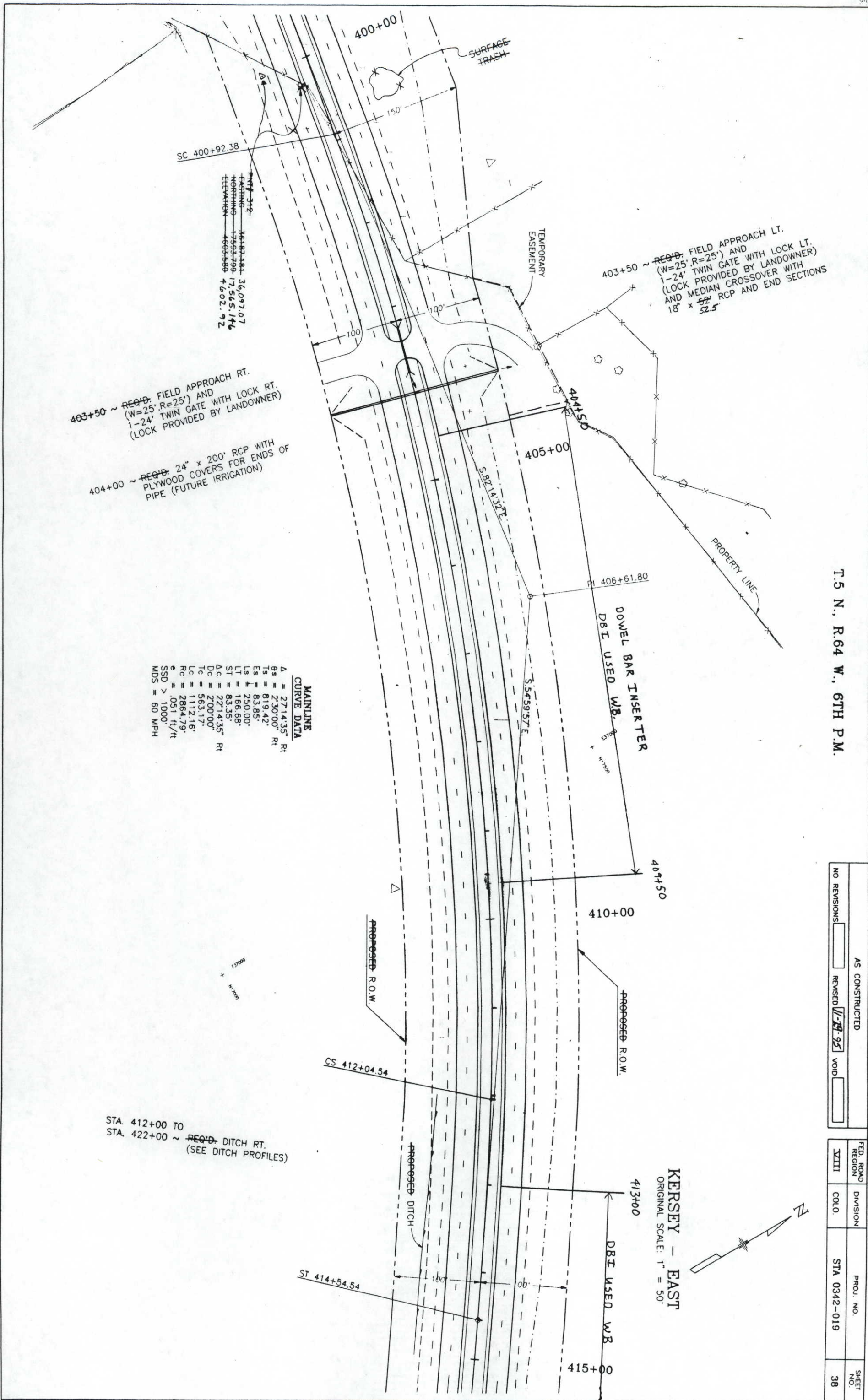
CONTAMINATED SOIL PLACEMENT AREAS

AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
NO REVISIONS	REVISED 11/27/95	XIII	COL.	STA 0342-019	36
VOID					

STA. 385+55 - 389+00 ~
REMOVE 355' OF EXISTING CONCRETE
LINED DITCH. REQUIRED 345' OF
CONCRETE LINED DITCH, 353' OF
(W=1', D=1.5', X=2')







403+50 ~ REQ'D. FIELD APPROACH RT.
(W=25', R=25') AND
1-24" TWIN GATE WITH LOCK RT.
(LOCK PROVIDED BY LANDOWNER)

404+00 ~ REQ'D. 24" x 200' RCP WITH
PLYWOOD COVERS FOR ENDS OF
PIPE (FUTURE IRRIGATION)

403+50 ~ REQ'D. FIELD APPROACH LT.
(W=25', R=25') AND
1-24" TWIN GATE WITH LOCK LT.
(LOCK PROVIDED BY LANDOWNER)
AND MEDIAN CROSSOVER WITH
18" x 52" RCP AND END SECTIONS

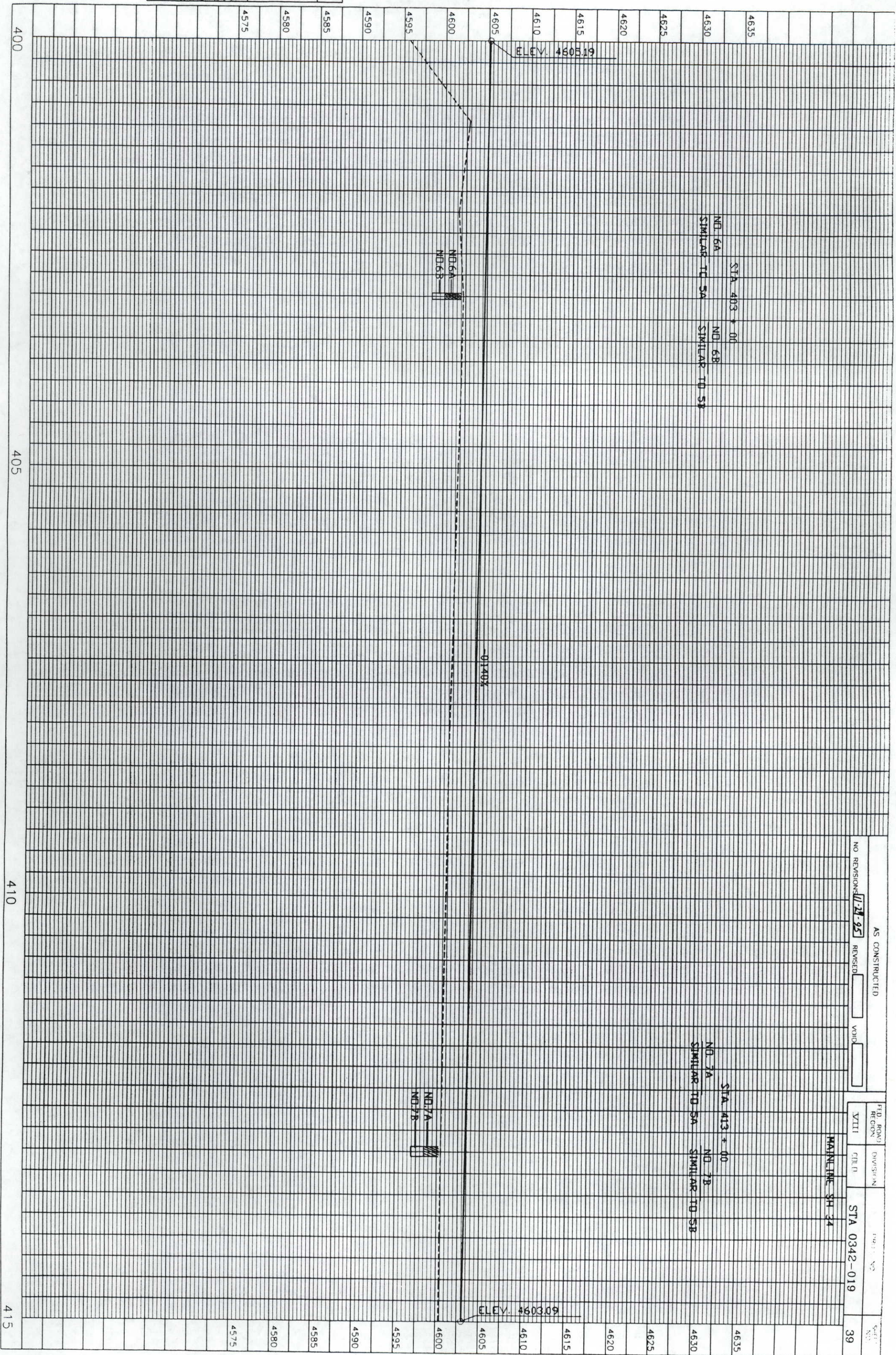
MAINLINE
CURVE DATA

A	=	2714.35'	Rt
gs	=	230.00'	Rt
ts	=	819.42'	
es	=	83.85'	
ls	=	250.00'	
lt	=	166.68'	
st	=	83.35'	
dc	=	2214.35'	Rt
tc	=	200.00'	
lc	=	1112.16'	
rc	=	2864.79'	
e	=	.051 ft/ft	
ssd	>	1000'	
m	=	60 MPH	

STA. 412+00 TO
STA. 422+00 ~ REQ'D. DITCH RT.
(SEE DITCH PROFILES)

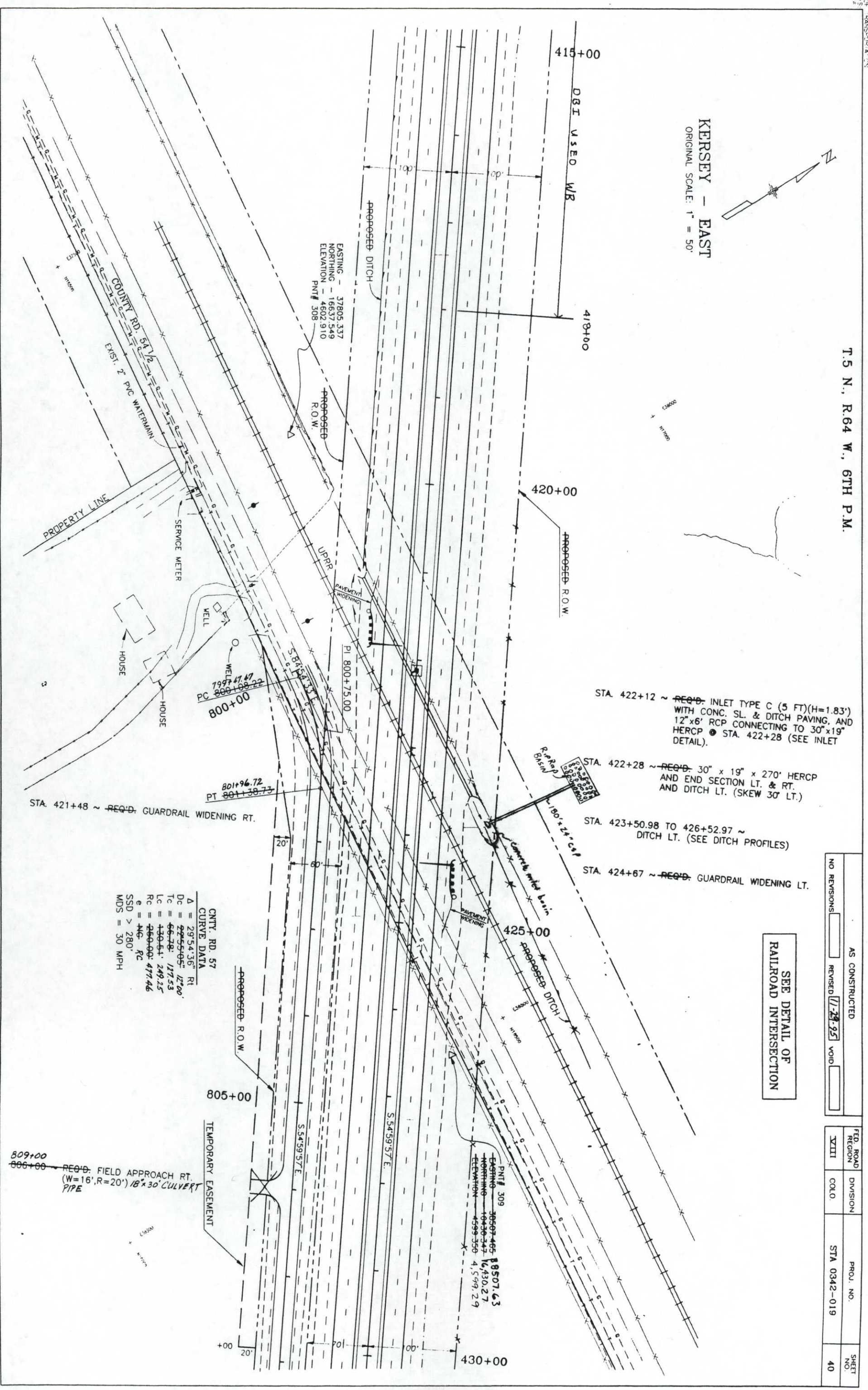
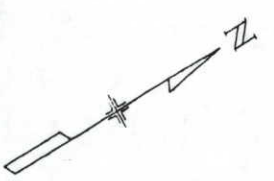
KERSEY - EAST
ORIGINAL SCALE: 1" = 50'

NO REVISIONS	AS CONSTRUCTED	FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
	REVISED 11-29-95	VIH	COLO.	STA 0342-019	38
VOID					



T.5 N., R.64 W., 6TH P.M.

KERSEY - EAST
ORIGINAL SCALE: 1" = 50'



- STA. 422+12 ~ REQ'D. INLET TYPE C (5 FT)(H=1.83') WITH CONC. SL. & DITCH PAVING, AND 12"x6" RCP CONNECTING TO 30"x19" HERCP @ STA. 422+28 (SEE INLET DETAIL).
- STA. 422+28 ~ REQ'D. 30" x 19" x 270' HERCP AND END SECTION LT. & RT. AND DITCH LT. (SKEW 30' LT.)
- STA. 423+50.98 TO 426+52.97 ~ DITCH LT. (SEE DITCH PROFILES)
- STA. 424+67 ~ REQ'D. GUARDRAIL WIDENING LT.

SEE DETAIL OF
RAILROAD INTERSECTION

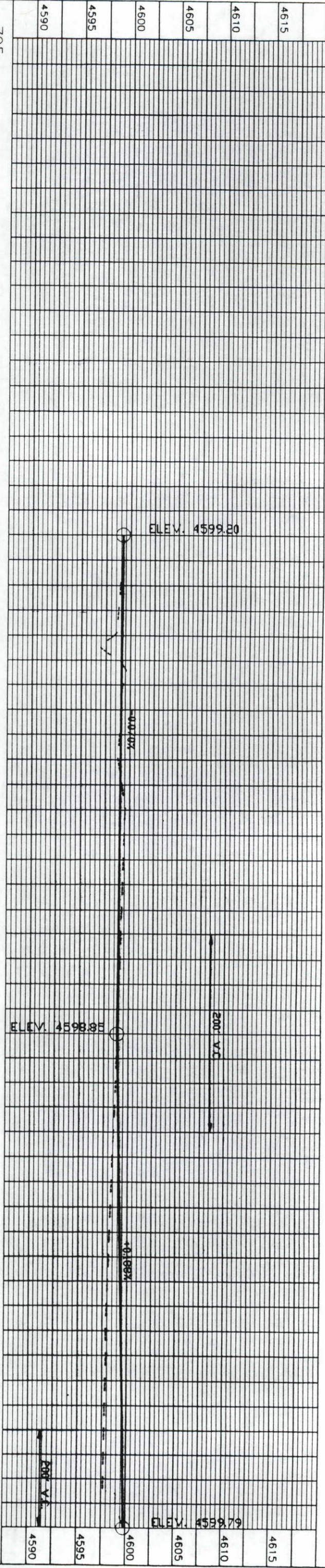
CNTY. RD. 57
CURVE DATA

Δ	= 29°54'36"	RI
Dc	= 22°55'05"	12°00'
Tc	= 66°28'	127.53
Lc	= 430.51'	249.25
Rc	= 260.00'	477.46
e	= 46'	RC
SSD	> 280'	
MDS	= 30 MPH	

809+00
806+00 ~ REQ'D. FIELD APPROACH RT.
(W=16', R=20') 18" x 30" CULVERT
PIPE

AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
NO REVISIONS	REVISED	XIII	COLO.	STA 0342-019	40

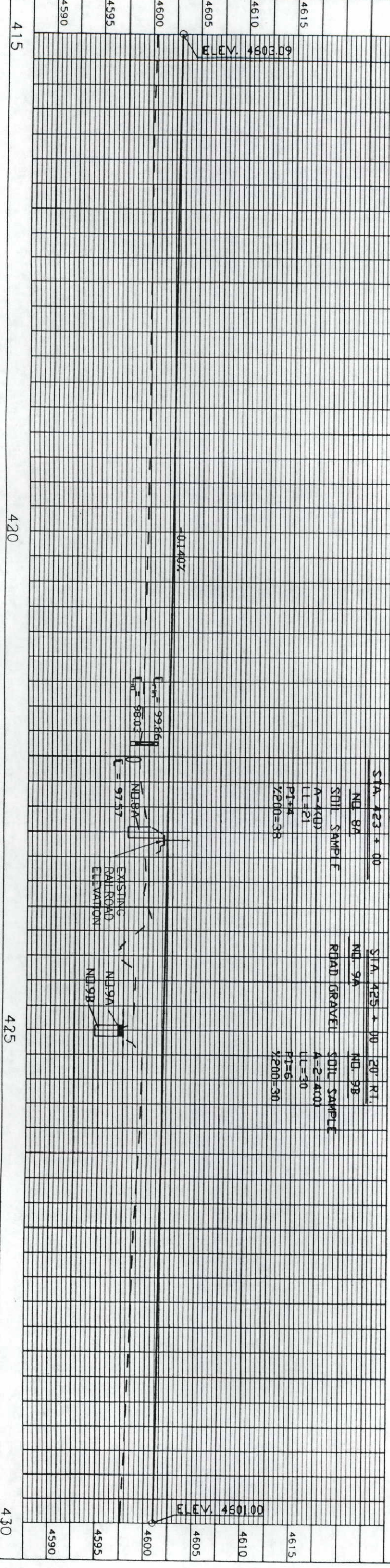
COUNTY ROAD 57



805

810

MAINLINE S.H. 34

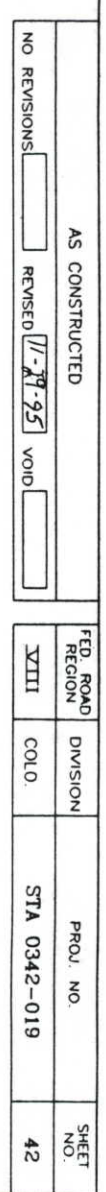


420

425

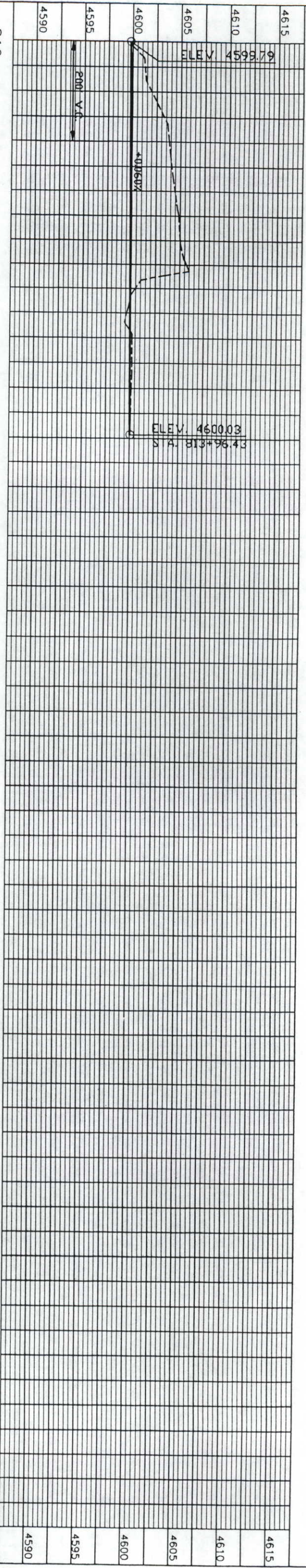
430

PROFILE	SURVEYED	
NOTE BOOK	PLOTTED	
NO.	ALIGNMENT CHECKED	
	B.M.'S NOTED	
	STATION NOTATIONS OK	

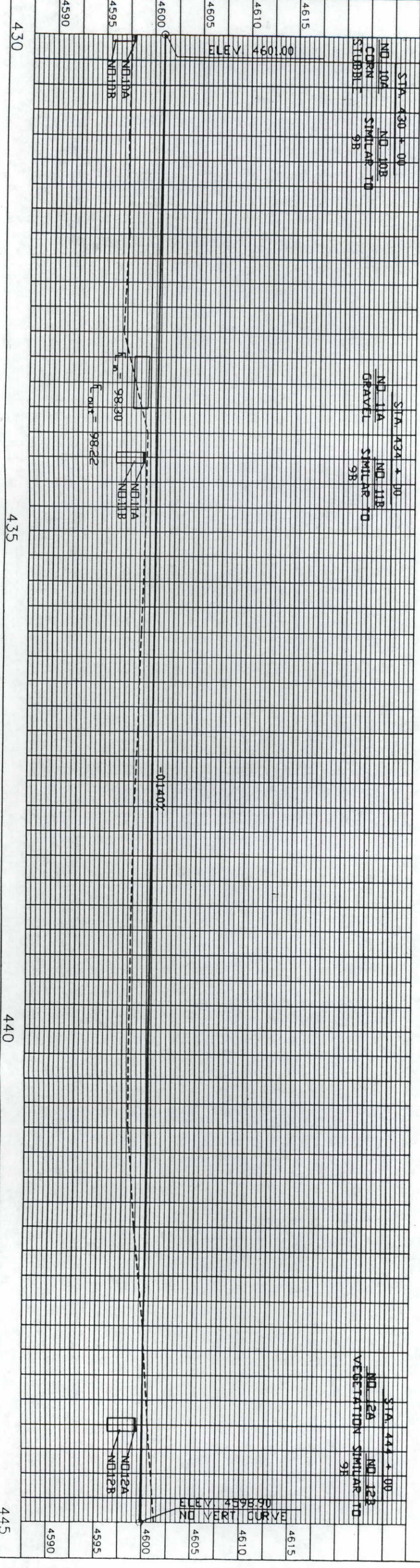


AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PRJ. NO.	SHEET NO.
NO REVISIONS	11-29-92	REVISED	VOID	STA 0342-019	43

COUNTY ROAD 57



MAINLINE S.H. 34



DATE	12/30/93
BY	
CHECKED	
APPROVED	
NOTED	
DATE	

450+00

