

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
F - PROJECT NO 69 (56) PE & R/W
ST-F-PROJECT NO 69 (59) CONSTR. & UTILITIES

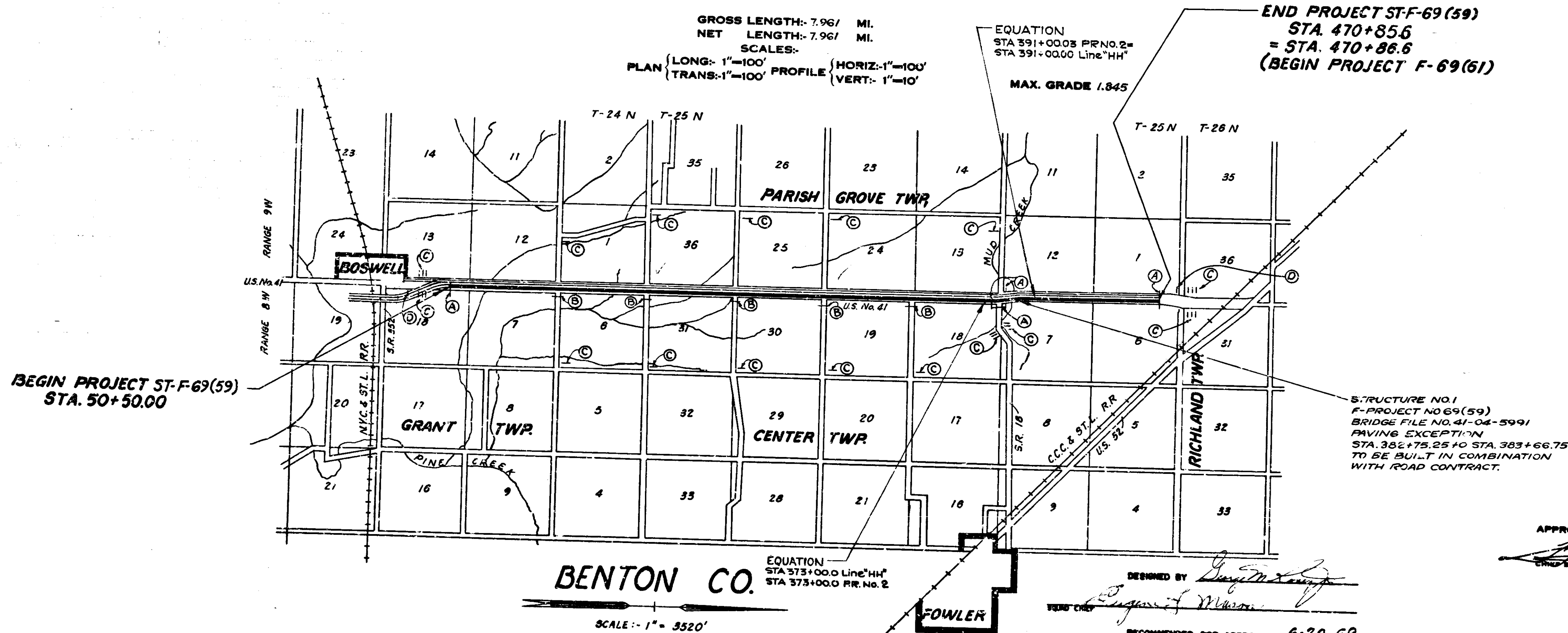
Beginning At A Point On U.S.R. 41, Approximately 1581 Ft. South of the Northeast Corner of Section 13, T-24-N, R-9-W, And Extending In A Northerly Direction For A Distance of 42,035.5 Ft. To A Point On U.S.R. 41 Approximately 1176 Ft. South of The Northeast Corner of Section 1, T-25-N, R-9-W, All In Benton County.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-69(59)	1969	1	144

DESIGN DATA	
A.D.T. (1970)	5260 V.P.D.
A.D.T. (1990) PROJECTED	8440 V.P.D.
D.H.V.	1070 V.P.D.
DIRECTIONAL DISTRIBUTION	55 %
TRUCKS, D.H.V.	9% A.D.T. 23 %
DESIGN SPEED	10 M.P.H.
ACCESS CONTROL	Partial

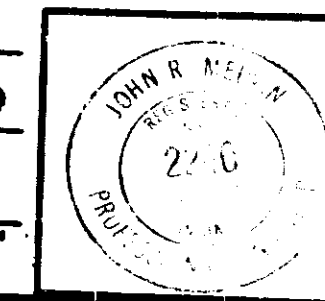
LEGEND

- Ⓐ STANDARD BARRICADE TYPE "A"
- Ⓑ STANDARD BARRICADE TYPE "B"
- Ⓒ CONSTRUCTION SIGN, TYPE "A"
- Ⓓ CONSTRUCTION IDENTIFICATION SIGN



INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1969
TO BE USED WITH THESE PLANS.

April 14, 1964



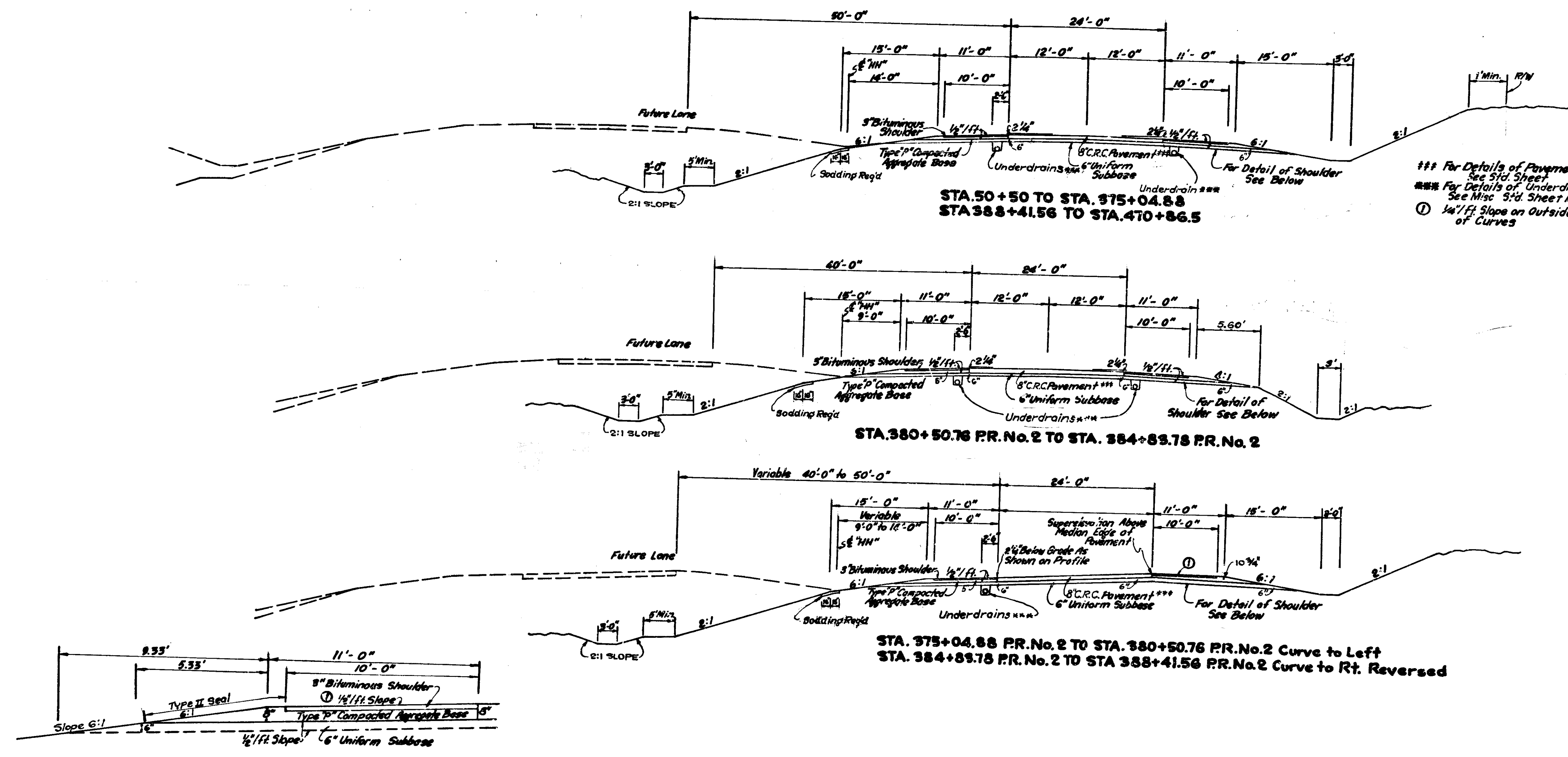
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED

DIVISION ENGINEER _____ DATE _____

ROAD FILE :-

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
ST-F-69(59)	NH	7	144	



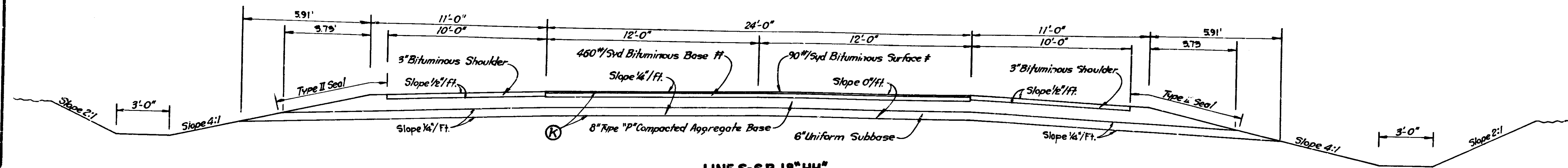
TYPICAL CROSS SECTIONS

SCALE: 1/8" = 1'-0"

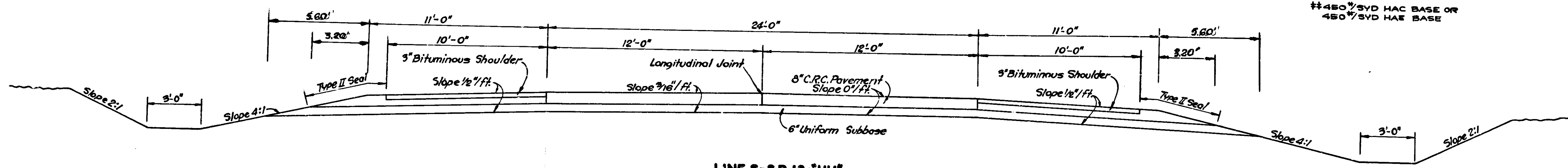
RECOMMENDED FOR APPROVAL 6-18-69

W. Behrens

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-P-69(99)	1969	4	144



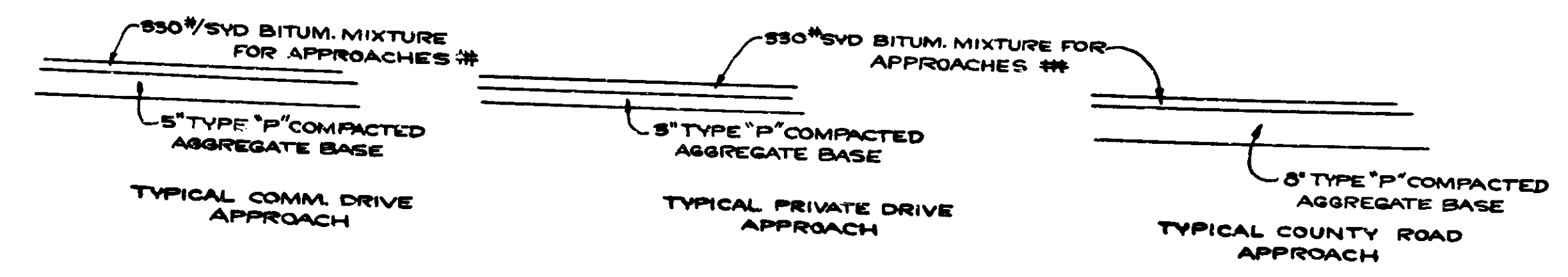
LINE S-S.P. 18" HH
Sta. 406+75 to Sta. 408+58.5



LINE S-S.R. 18" HH
Sta. 409+09.5 to Sta. 411+00.0

‡ 90#/SYD HAC SURFACE TYPE "B" OR
90#/SYD HAC SURFACE TYPE III
‡‡ 460#/SYD HAC BASE OR
460#/SYD HAC BASE

Ⓚ SEE SHEET NO. 37 AND 39



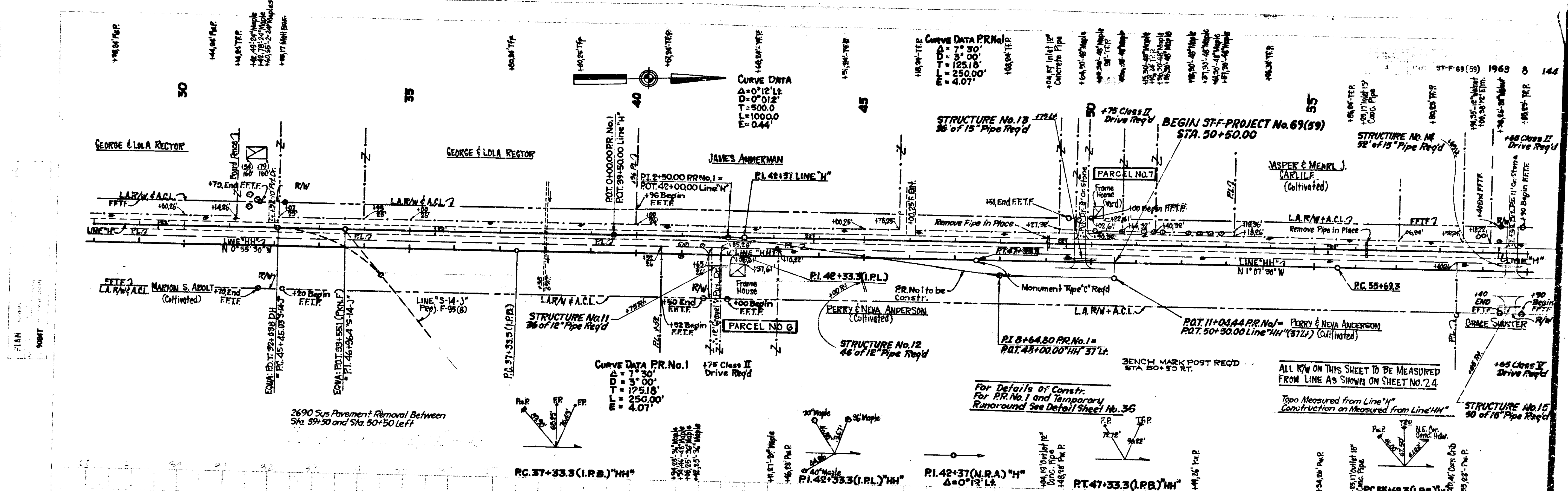
‡‡ 90#/SYD HAC SURFACE TYPE "B" OR
90#/SYD HAC SURFACE TYPE III
OVER
240#/SYD HAC BASE OR
240#/SYD HAC BASE

TYPICAL CROSS SECTIONS

SCALE: 3/8" = 1'-0"

RECOMMENDED FOR APPROVAL 6-18-69

W.H. Behrens



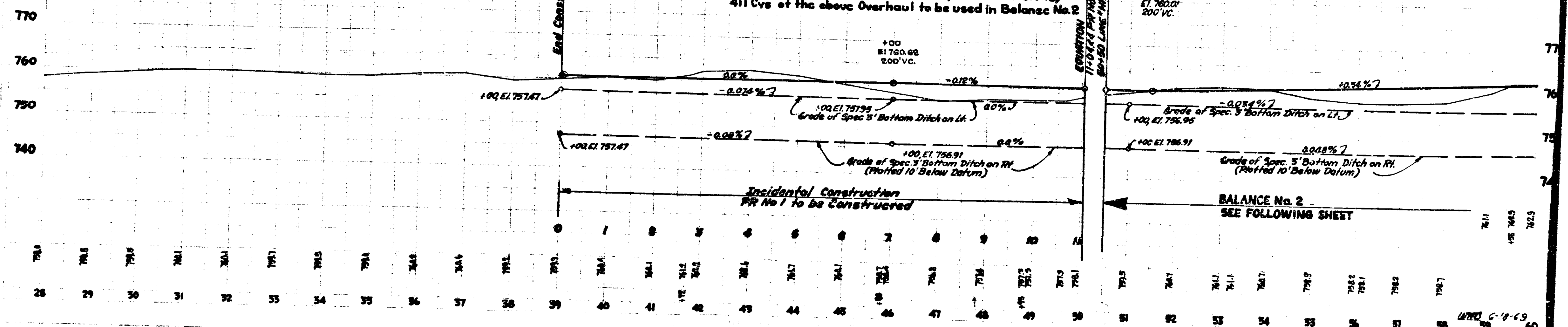
BALANCE NO. 1

- Cut ----- 938
- Fill + 25% ----- 5516 Cys.
- Overhaul ----- 411 Cys.
- Waste ----- 3454 Cys.

The Above Balance Includes 2334 Cys of Cut and 146 Cys Fill for Temporary Runaround.

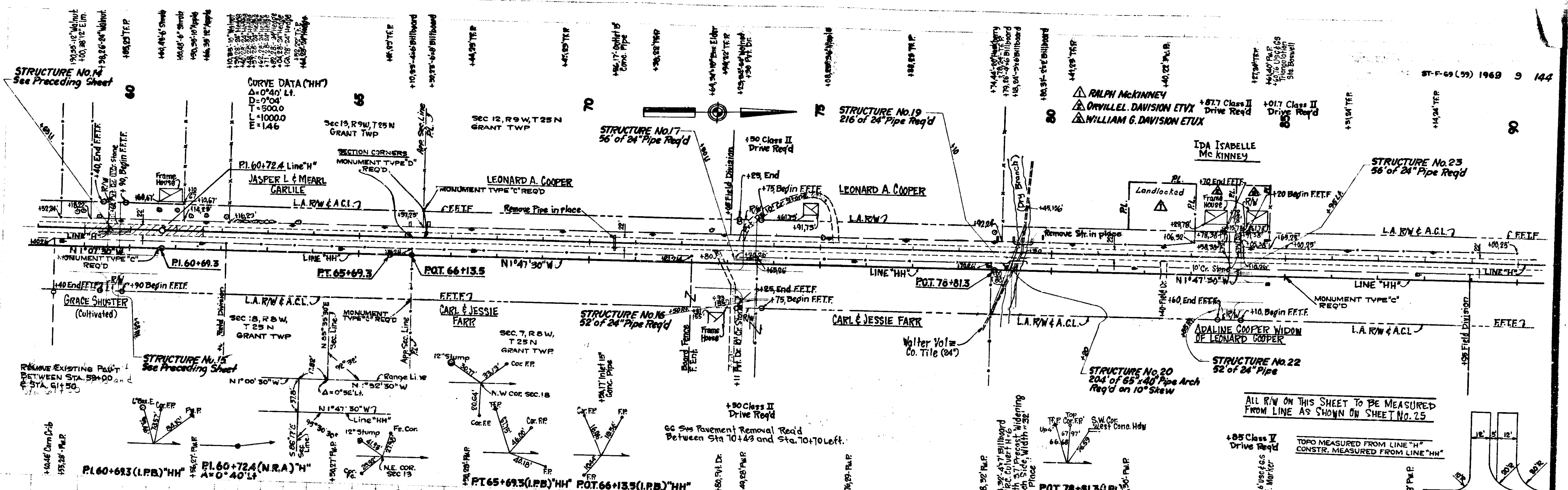
The above Balance includes 1251 Cys of Cut, Fill and Waste for Top Soil Excavation. (See Special Provisions)

411 Cys of the above Overhaul to be used in Balance No. 2



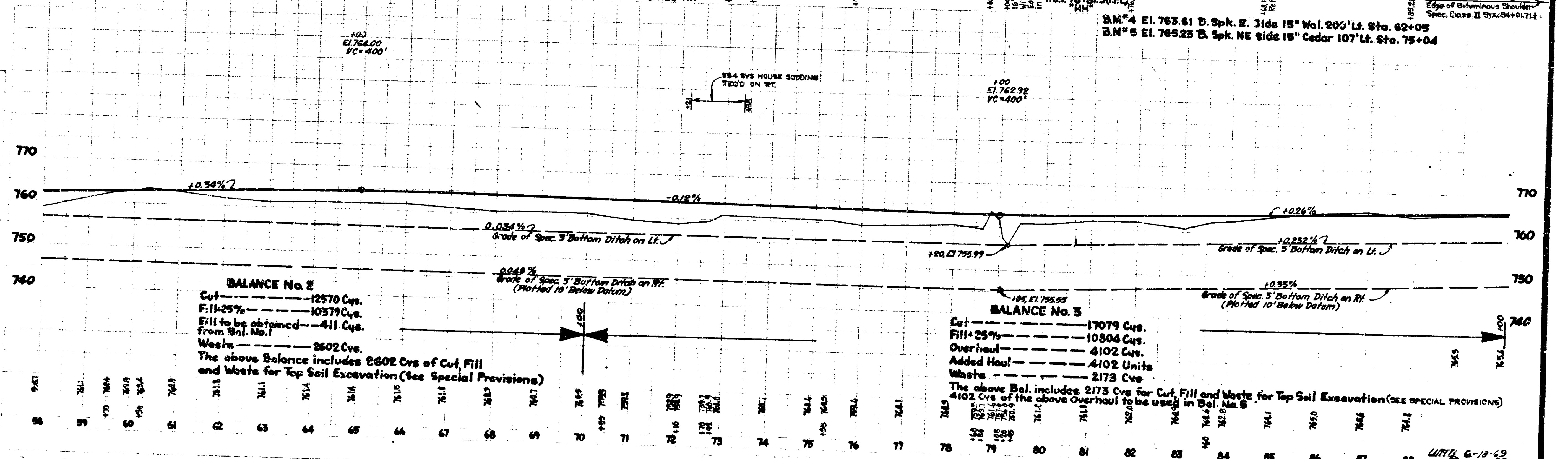
PLAN

PROFILE



ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE AS SHOWN ON SHEET NO. 25
 TOPO MEASURED FROM LINE "H"
 CONSTR. MEASURED FROM LINE "HH"

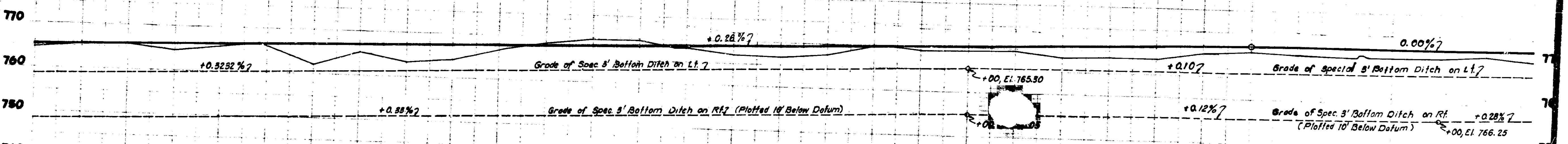
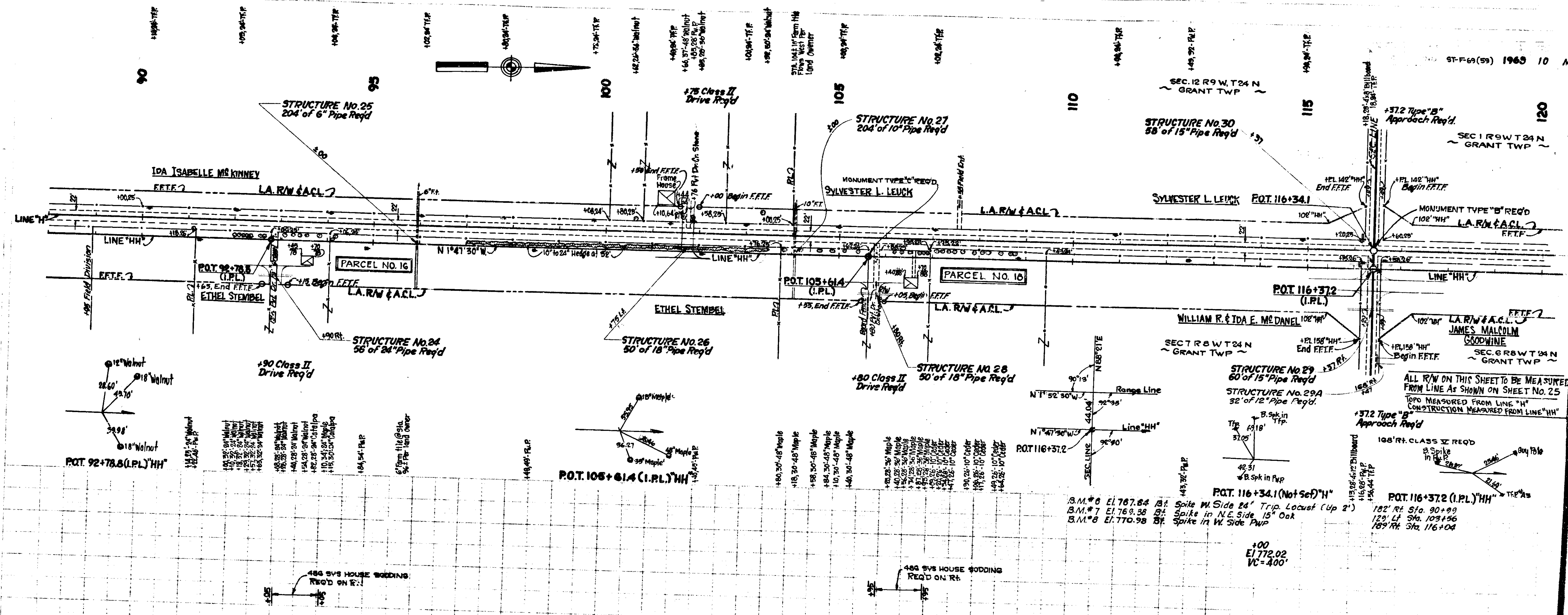
B.M. # 4 EL. 763.61 D. Spk. E. Side 15" Wal. 200' Lt. Sta. 62+05
 B.M. # 5 EL. 765.23 B. Spk. NE side 15" Cedar 107' Lt. Sta. 75+04



BALANCE No. 2
 Cut - 12570 Cys.
 Fill + 25% - 10579 Cys.
 Fill to be obtained from Bal. No. 1 - 411 Cys.
 Waste - 2602 Cys.
 The above Balance includes 2602 Cys of Cut, Fill and Waste for Top Soil Excavation (See Special Provisions)

BALANCE No. 3
 Cut - 17079 Cys.
 Fill + 25% - 10804 Cys.
 Overhaul - 4102 Cys.
 Added Haul - 4102 Units
 Waste - 2173 Cys.
 The above Bal. includes 2173 Cys for Cut, Fill and Waste for Top Soil Excavation (SEE SPECIAL PROVISIONS)
 4102 Cys of the above Overhaul to be used in Bal. No. 5

567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590
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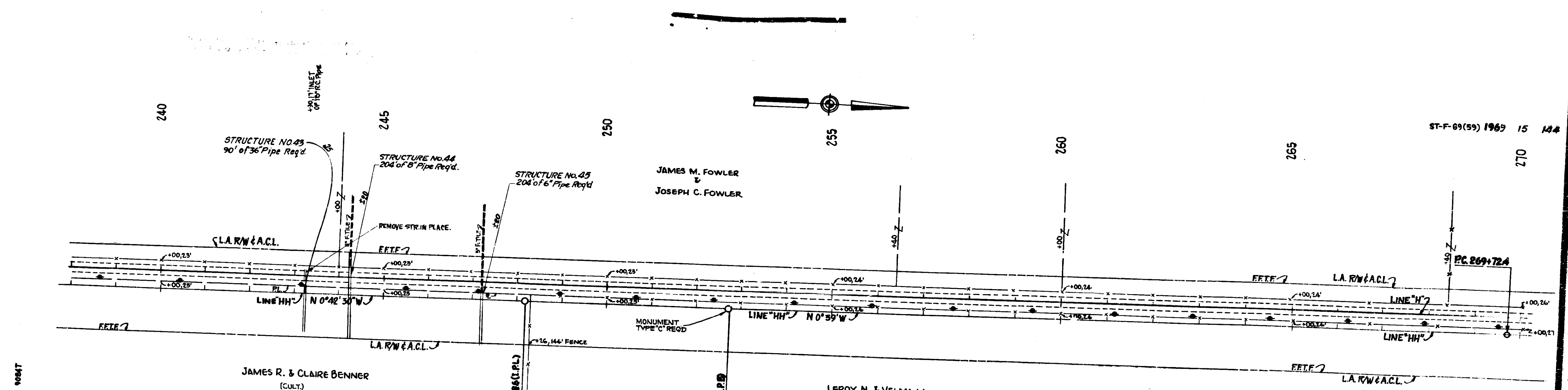
BALANCE No. 4

Cut	15601 Cys
Fill+25%	6231 Cys
Overhaul	17611 Cys
Added Haul	5536 Cys
Waste	1759 Cys

The above Bal. includes 1759 Cys Cut, Fill and Waste for Top Soil Excavation (See Special Provisions)
 1775 Cys of the above Overhaul to be used in Bal. No. 5 - 5836 Cys of the above Overhaul to be used in Bal. No. 6

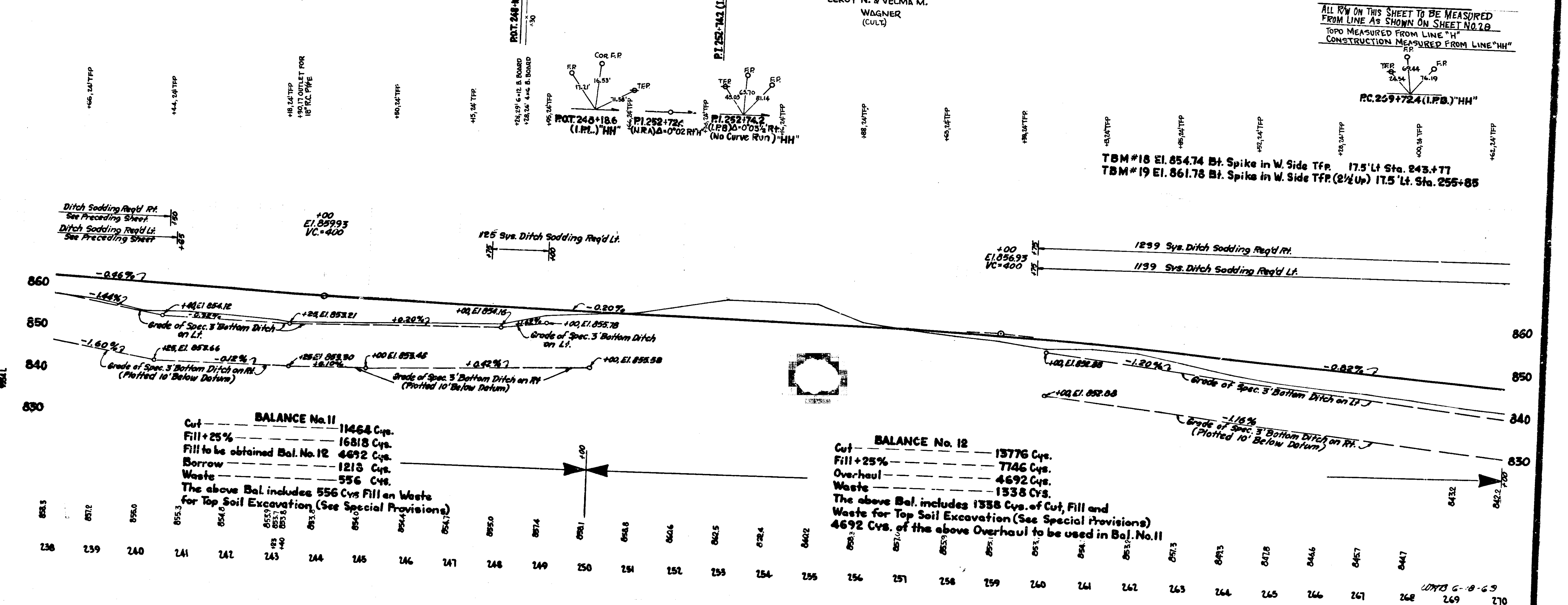
763	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820
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URPS 6-18-9



ALL RW ON THIS SHEET TO BE MEASURED FROM LINE AS SHOWN ON SHEET NO. 20
 TOPO MEASURED FROM LINE "H"
 CONSTRUCTION MEASURED FROM LINE "HH"

TBM #18 El. 854.74 Bt. Spike in W. Side Tfp. 17.5' Lt. Sta. 243.+77
 TBM #19 El. 861.78 Bt. Spike in W. Side Tfp. (2 1/2' Up) 17.5' Lt. Sta. 255+85



SEC. 25 T 25 N R 9 W
PARISH GROVE TWP

SEC. 24 T 25 N R 9 W
PARISH GROVE TWP

280

WATLAND FARMS
(CULT.)

290

295

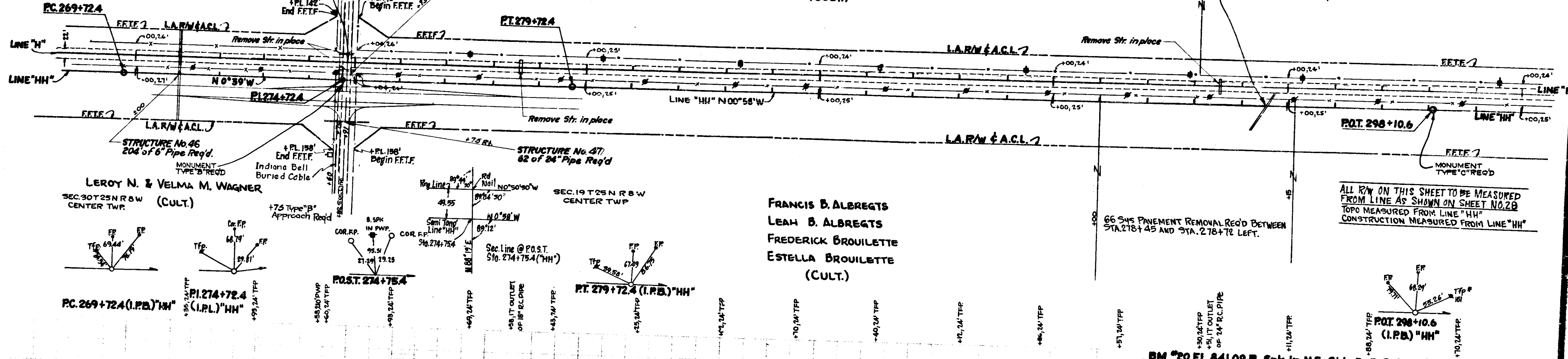
CURVE DATA
Δ = 0°19'15"
D = 0°01'15"
T = 1000.0'
E = 0.69'



JAMES M. FOWLER &
JOSEPH C. FOWLER
(CULT.)

STRUCTURE No. 48
64 of 18" Pipe Req'd

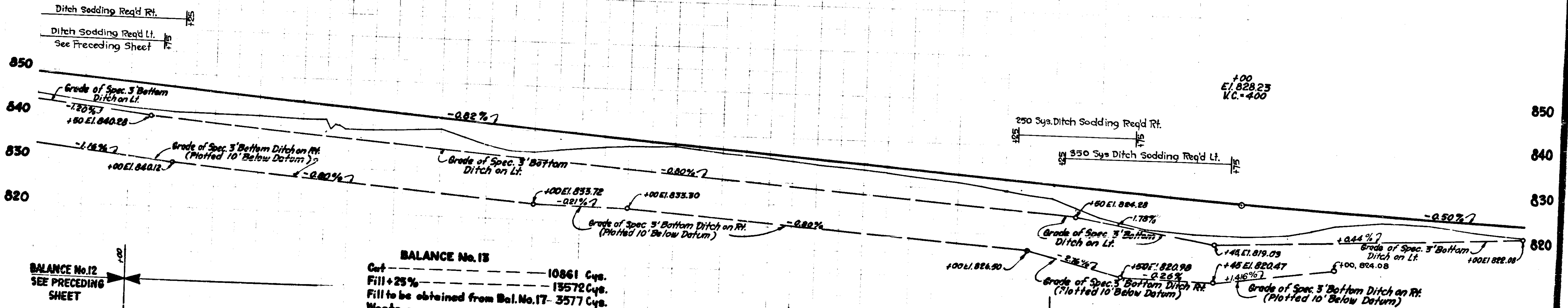
STRUCTURE No. 49
124 of 42" Metal Pipe or
36" Conc. Pipe Req'd



ALL RW ON THIS SHEET TO BE MEASURED
FROM LINE AS SHOWN ON SHEET NO. 28
TOP MEASURED FROM LINE "HH"
CONSTRUCTION MEASURED FROM LINE "H"

FRANCIS B. ALBREGTS
LEAH B. ALBREGTS
FREDERICK BROUILLETTE
ESTELLA BROUILLETTE
(CULT.)

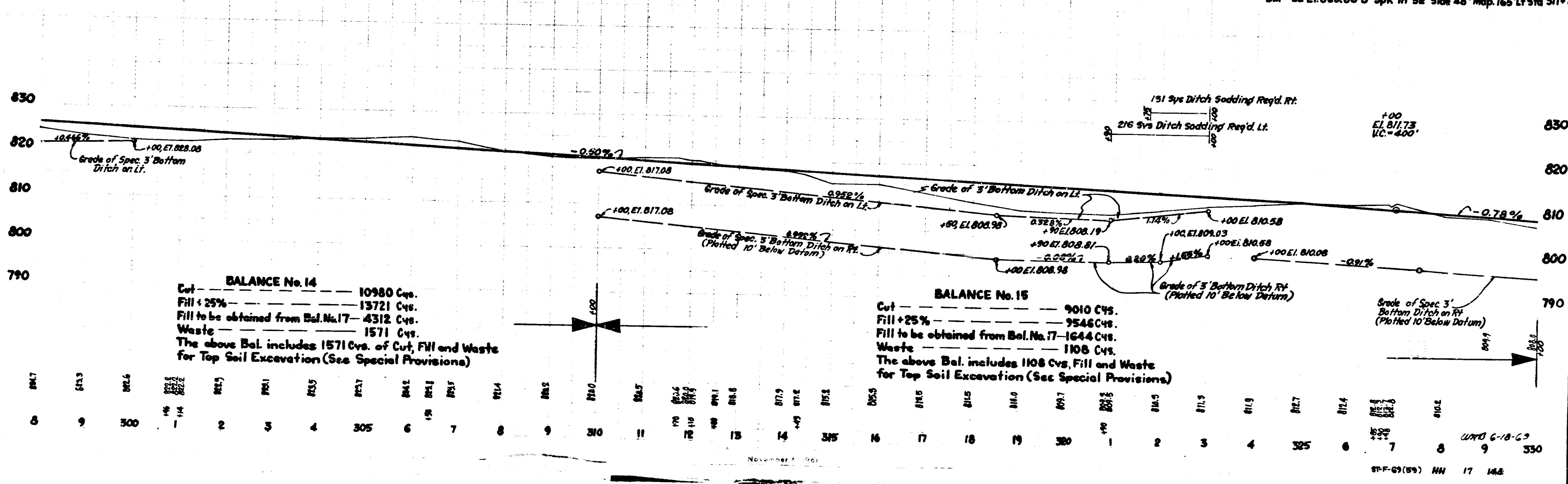
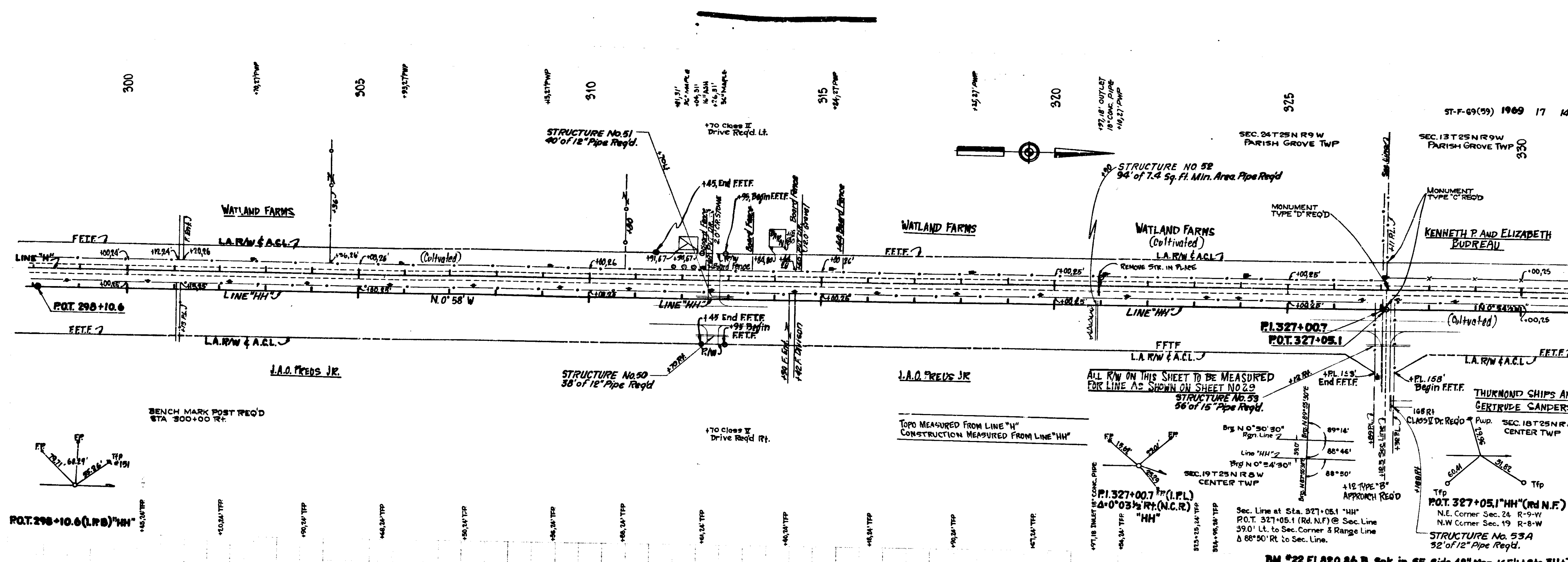
BM #20 El. 841.09 B. Spk in N.E. Side PwP @ Co. Rd 144 Lt Sta. 274+56

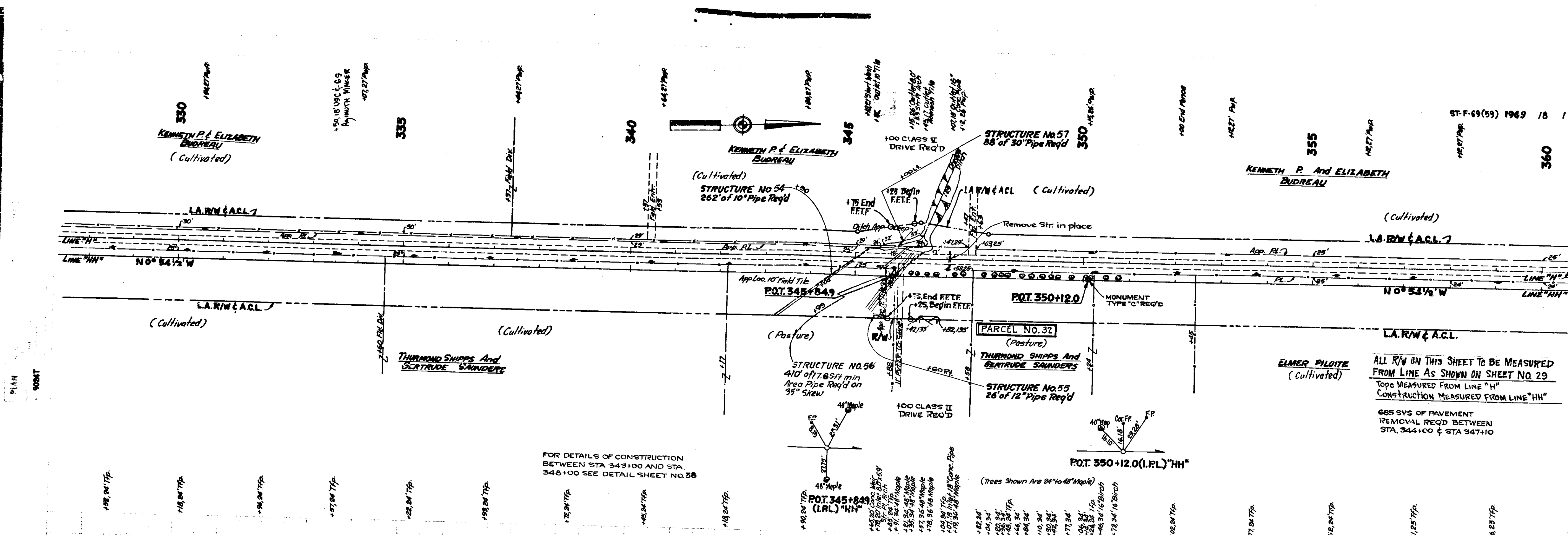


BALANCE No. 13
Cut ----- 10861 Cys.
Fill +25% ----- 19572 Cys.
Fill to be obtained from Bal. No. 17 - 3577 Cys.
Waste ----- 866 Cys.
The above Bal. includes 866 Cys of Cut, Fill and
Waste for Top Soil Excavation (See Special Provisions)

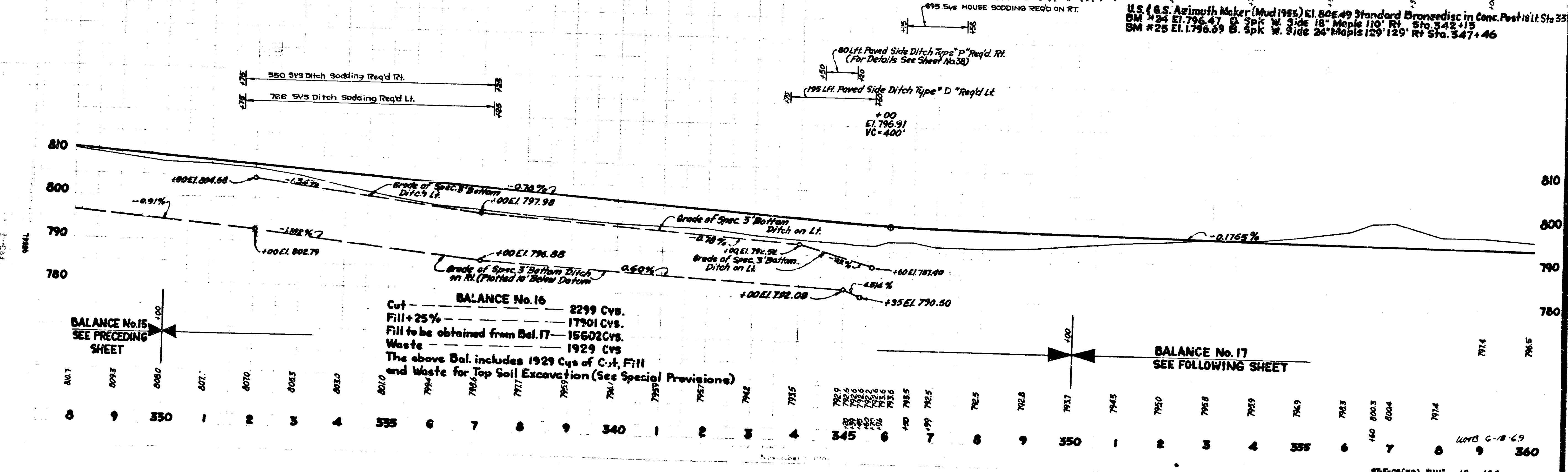
BALANCE No. 14
SEE FOLLOWING SHEET

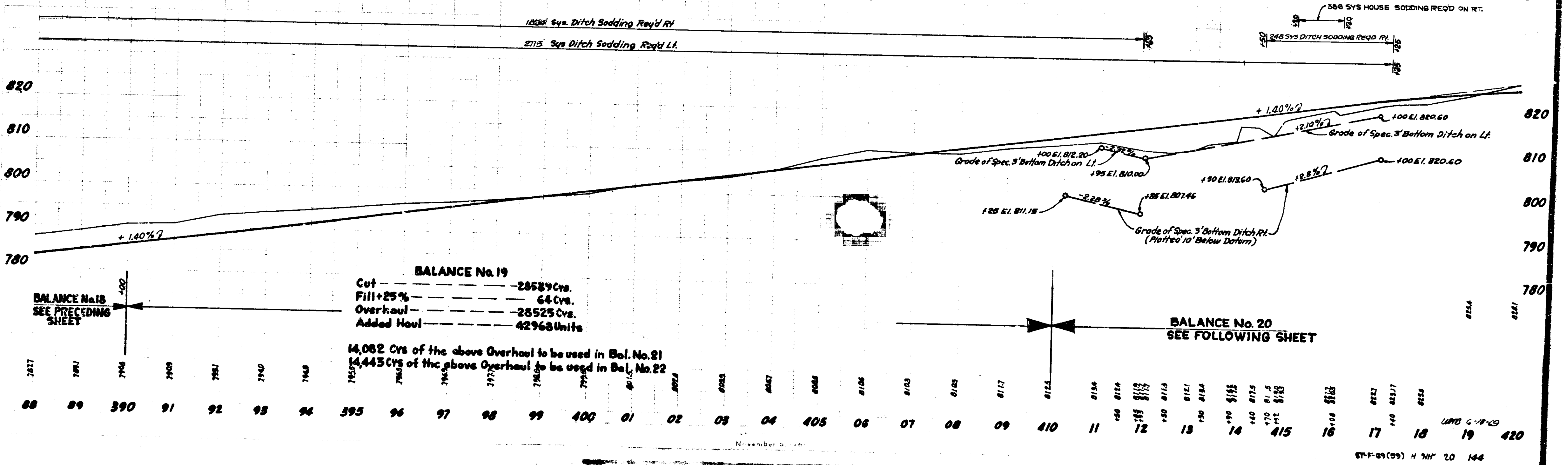
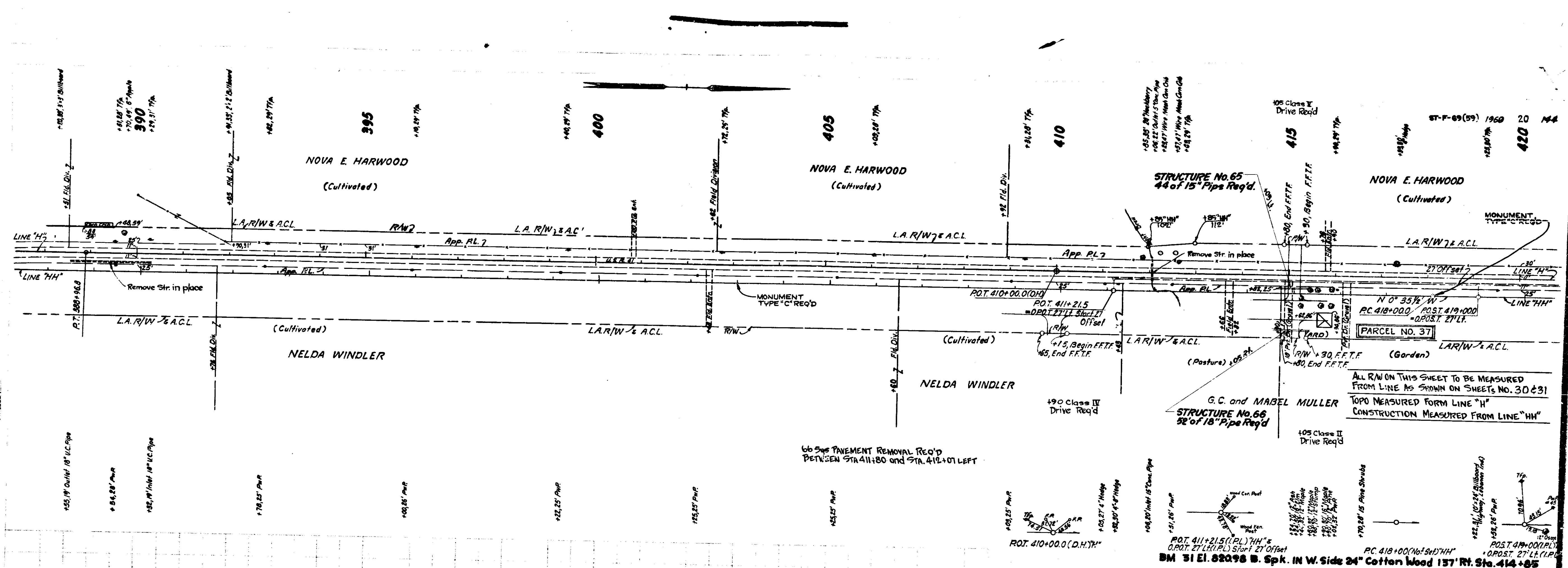
Table with columns for stationing (270-300) and corresponding elevation data for the profile view.





U.S. & S. Avimath Maker (Mud 1955) EL 805.49 Standard Bronzdisc in Conc. Post 18 1/2" Sta 33
 BM #24 EL. 796.47 B. Spk W. Side 18" Maple 110' Rt. Sta. 342+15
 BM #25 EL. 796.59 B. Spk W. Side 24" Maples 129' 129' Rt Sta. 347+46





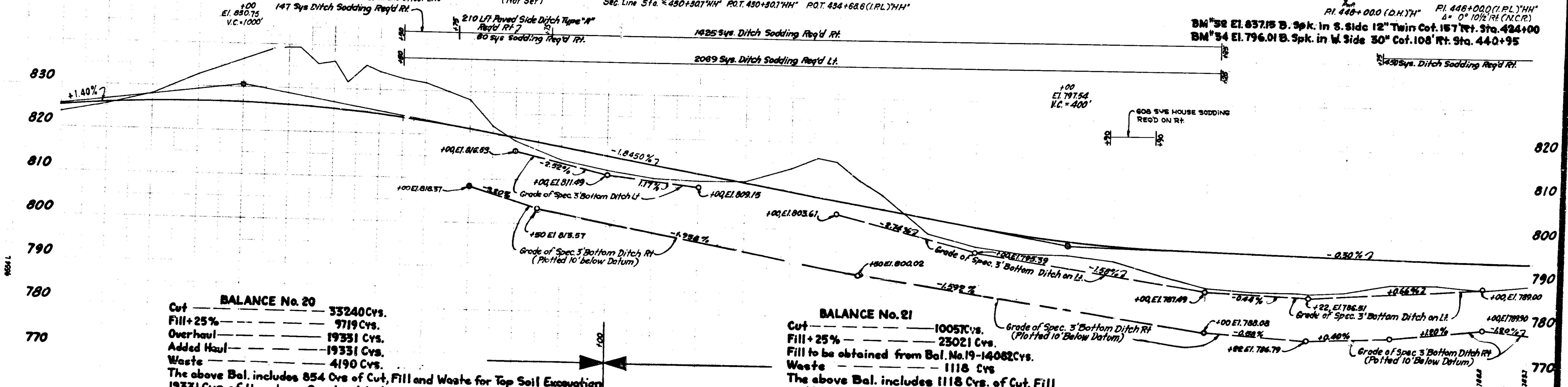
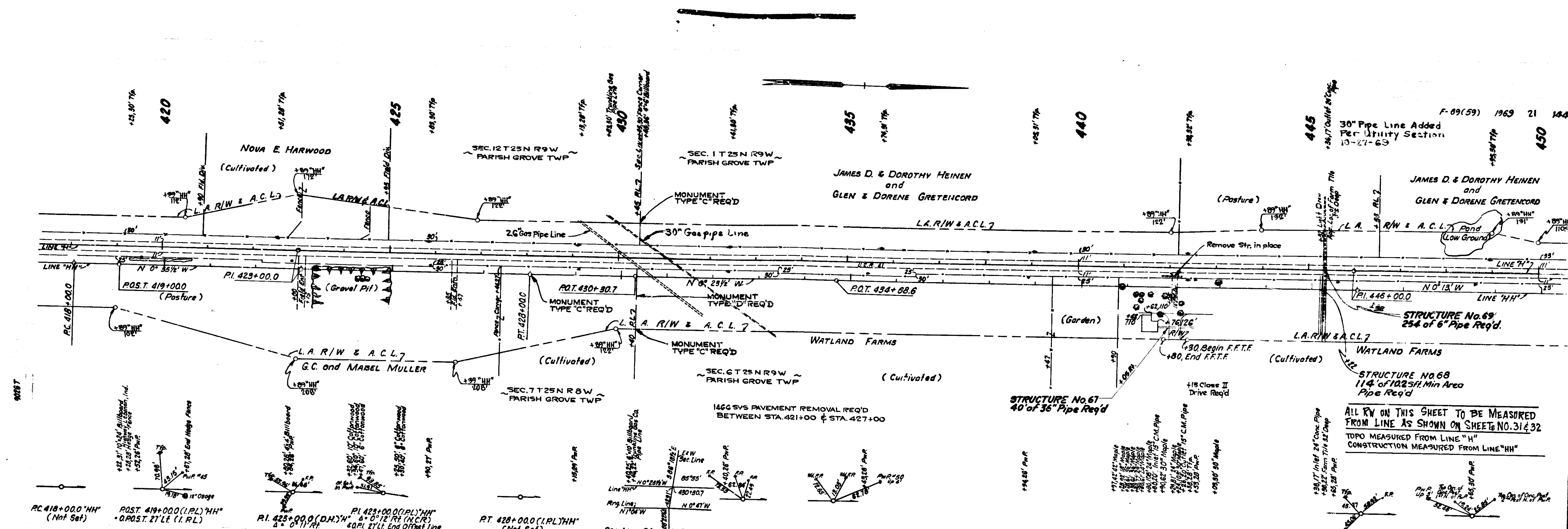
BALANCE No. 19

Cut	28589 Cys.
Fill + 25%	64 Cys.
Overhaul	28525 Cys.
Added Haul	42968 Units

14,082 Cys of the above Overhaul to be used in Bal. No. 21
 14,443 Cys of the above Overhaul to be used in Bal. No. 22

BALANCE No. 20
SEE FOLLOWING SHEET

3827	3871	3906	3909	3981	3940	3948	3953	3965	3977	3980	3991	4000	4001	4002	4003	4004	4005	4106	4107	4108	4109	4110	4111	4112	4113	4114	4115	4116	4117	4118	4119	4120	4121	4122	4123	4124	4125	4126	4127	4128	4129	4130	4131	4132	4133	4134	4135	4136	4137	4138	4139	4140	4141	4142	4143	4144	4145	4146	4147	4148	4149	4150	4151	4152	4153	4154	4155	4156	4157	4158	4159	4160	4161	4162	4163	4164	4165	4166	4167	4168	4169	4170	4171	4172	4173	4174	4175	4176	4177	4178	4179	4180	4181	4182	4183	4184	4185	4186	4187	4188	4189	4190	4191	4192	4193	4194	4195	4196	4197	4198	4199	4200
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BALANCE No. 20

Cut	33240 Cys.
Fill + 25%	3719 Cys.
Overhaul	19331 Cys.
Added Haul	19331 Cys.
Waste	4190 Cys.

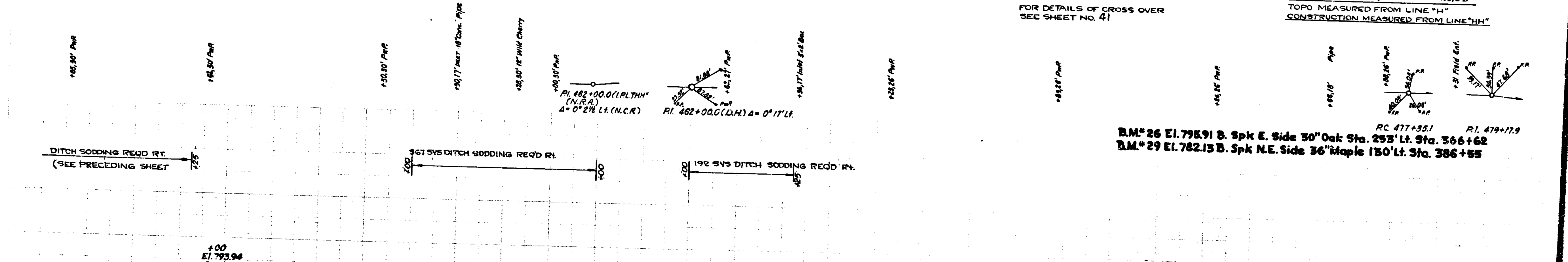
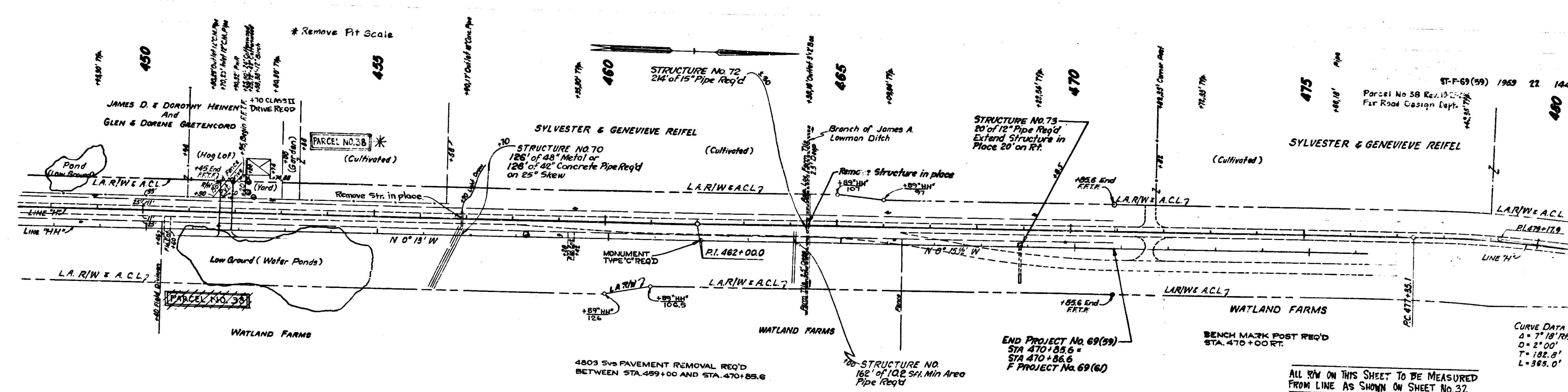
The above Bal. includes 854 Cys. of Cut, Fill and Waste for Top Soil Excavation
19331 Cys. of the above Overhaul to be used in Bal. No. 22

BALANCE No. 21

Cut	10057 Cys.
Fill + 25%	23021 Cys.
Waste	1118 Cys.

Fill to be obtained from Bal. No. 19 - 14082 Cys.
The above Bal. includes 1118 Cys. of Cut, Fill and Waste for Top Soil Excavation. (SEE SPEC. PROVISIONS)

415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450
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BALANCE No. 22
 Cut - 1575 Cys.
 Fill +25% - 35,499 CYS
 Fill to be obtained from Bal. No. 19, 20 - 33,774 CYS

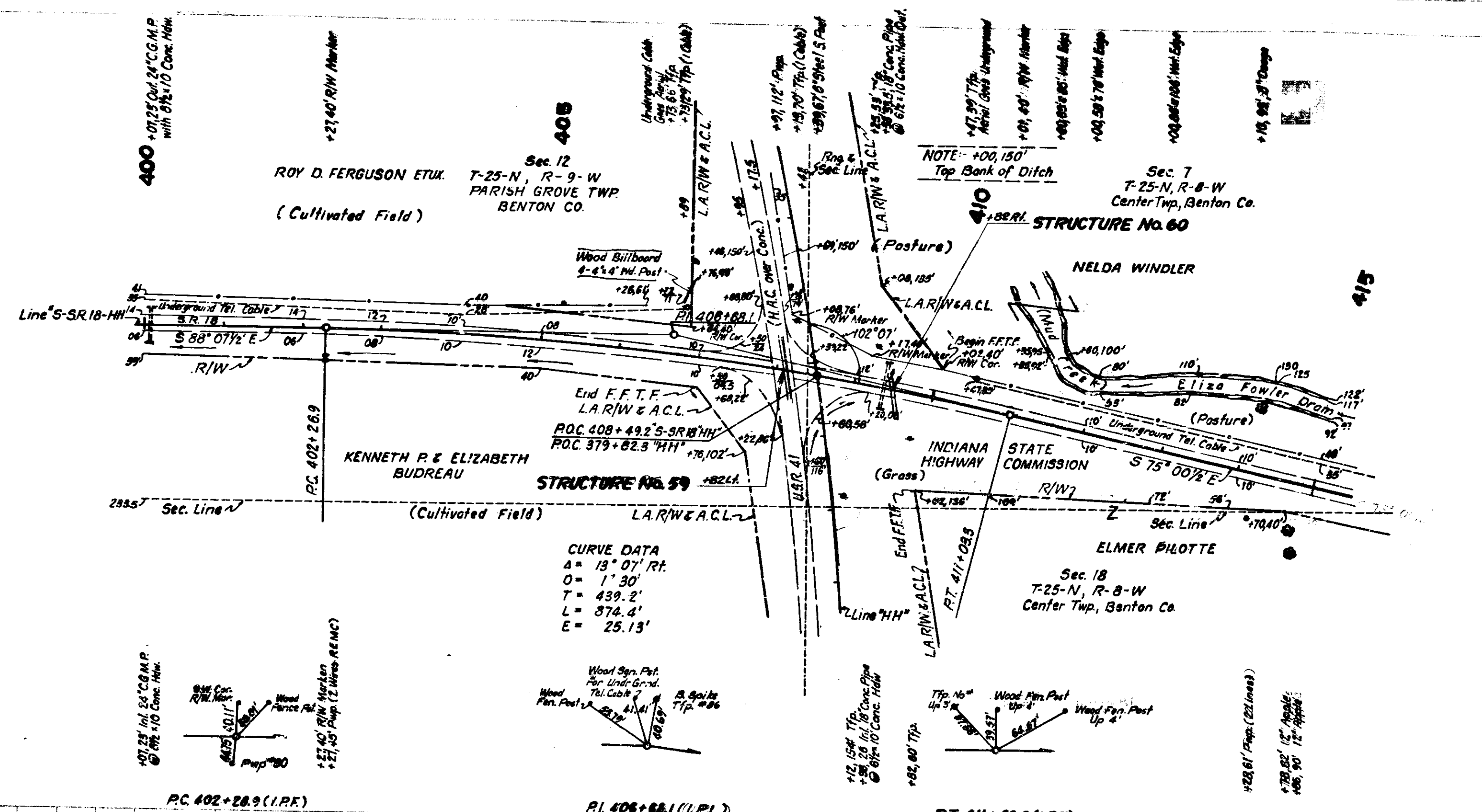
48	49	450	51	52	53	54	455	56	57	58	59	460	61	62	63	64	465	66	67	68	69	470	71	72	73	74	475	76	77	78	480
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ALL R/W ON THIS SHEET TO BE MEASURED FROM LINE AS SHOWN ON SHEET NO. 32
 TOPO MEASURED FROM LINE "H"
 CONSTRUCTION MEASURED FROM LINE "HH"

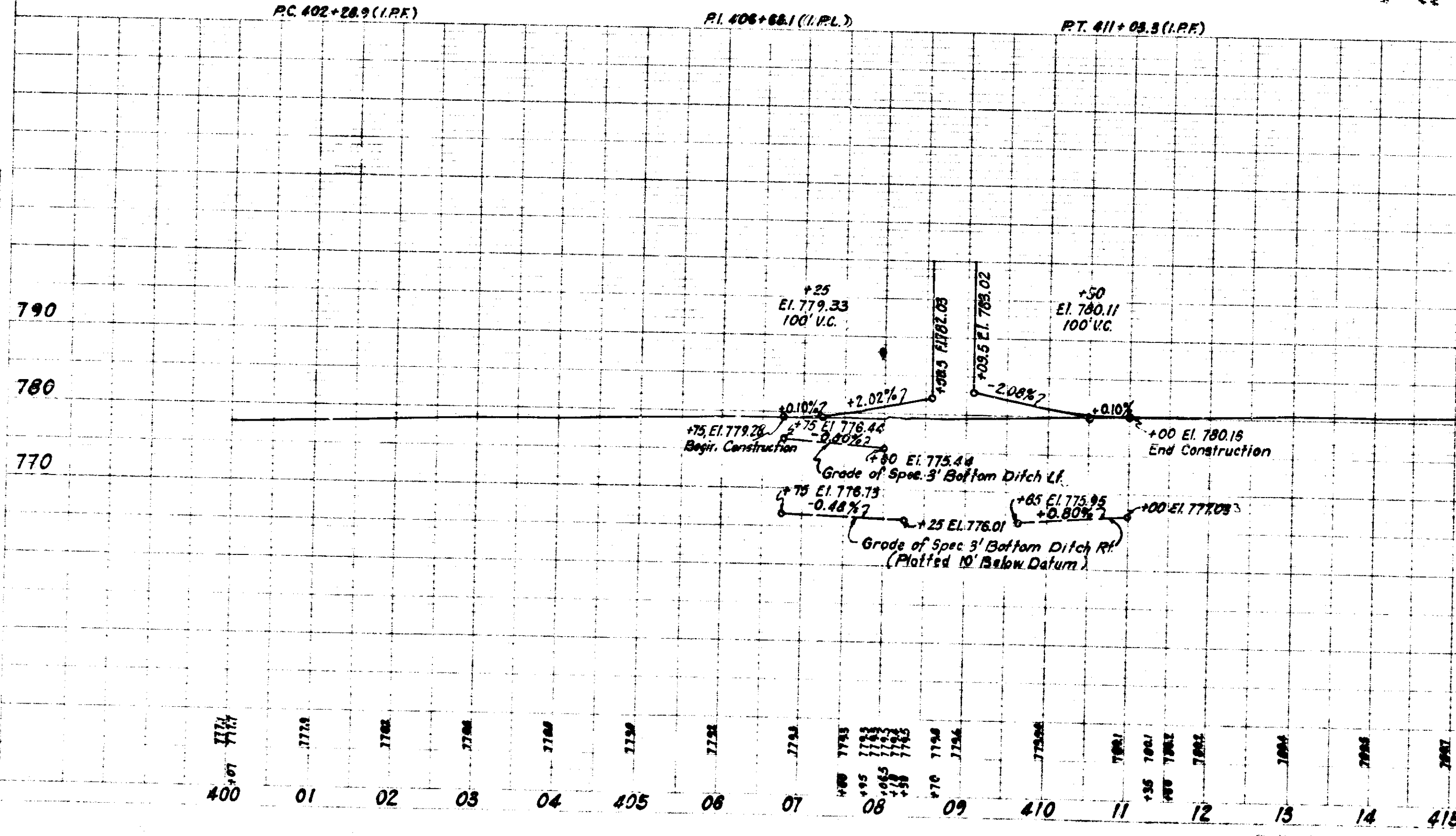
FOR DETAILS OF CROSS OVER SEE SHEET NO. 41

BM# 26 EL. 795.91 B. Spk E. Side 30' Oak Sta. 253+1. Sta. 366+62
 BM# 29 EL. 782.15 B. Spk N.E. Side 36' Maple 130+1. Sta. 386+55

9026 T



CURVE DATA
 $\Delta = 13^{\circ} 07' RT$
 $O = 1' 30''$
 $T = 439.2'$
 $L = 374.4'$
 $E = 25.13'$



November 6 1961

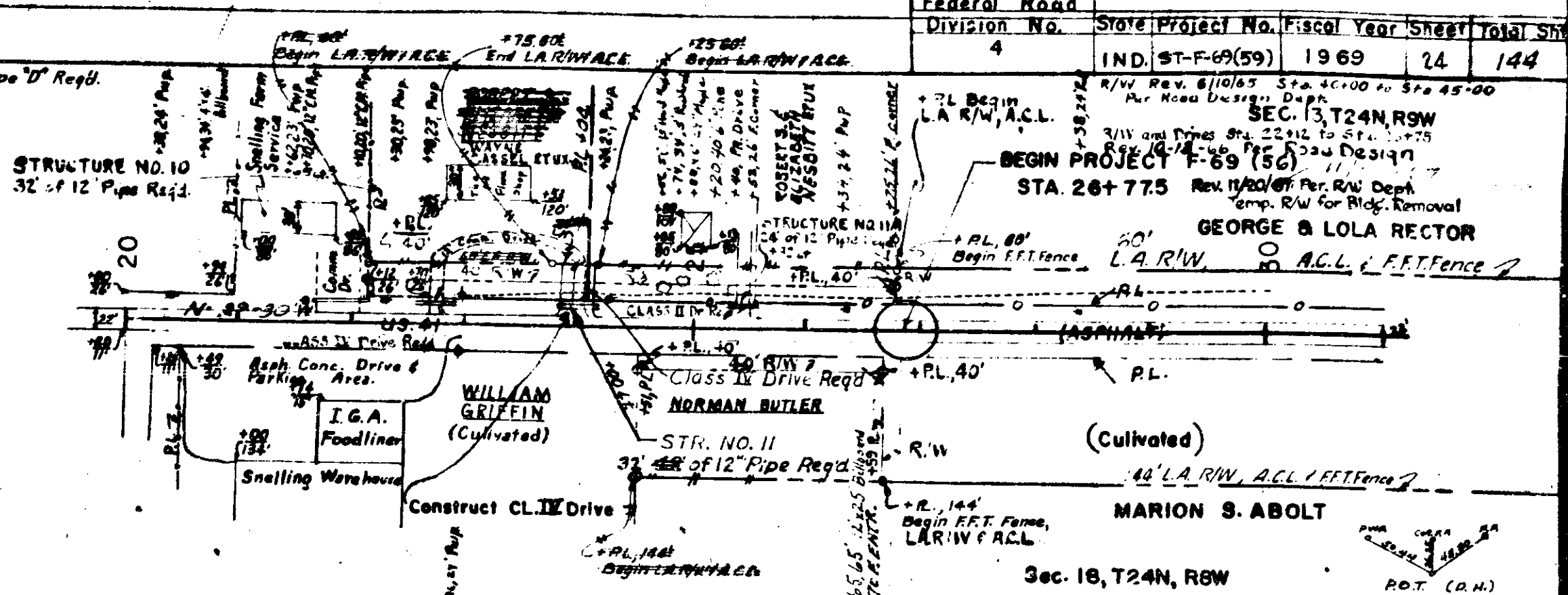
UNMS 6-12-69

PLAN
 Robert A. Coates
 G.M. Henry
 4027

PROFILE
 Robert A. Coates
 G.M. Henry
 4027

- (UTILITIES)
- INDIANA BELL TELEPHONE CO.
240 N. Meridian St.
Indianapolis, Indiana 46209
 - NORTHERN INDIANA PUBLIC SERVICE CO.
5265 Hohman Ave.
Hammond, Indiana
 - WARREN COUNTY R-E-M-C
Williamsport, Indiana
 - TRUNKLINE GAS CO.
P.O. Box 1642
Houston, Texas 77001

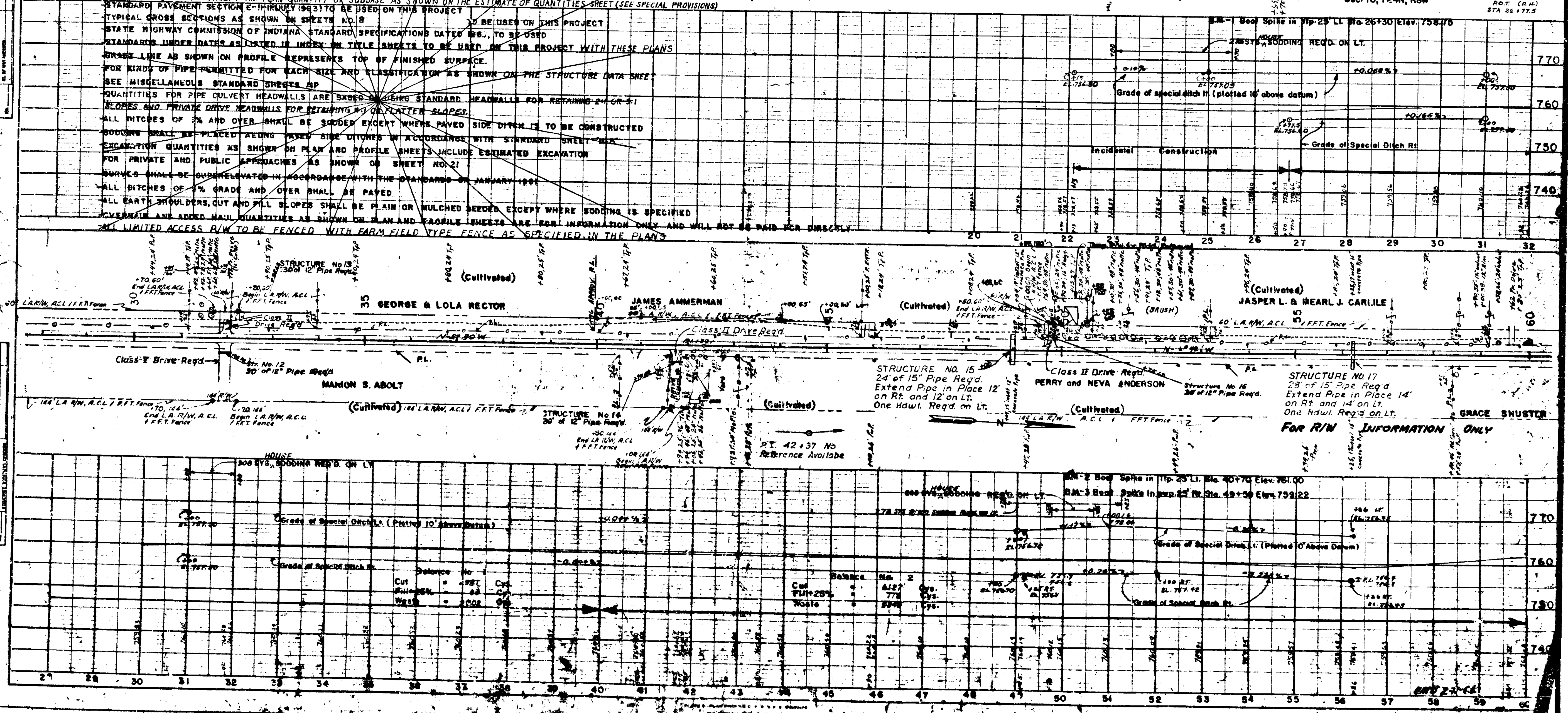
Special Monument, Type "D" Req'd.
Sta. 26+77.5
Sta. 42+37.1 @ P.I.



ALL R/W ON THIS SHEET TO BE AS SHOWN
R/W TO BE ACQUIRED UNDER LIMITED ACCESS
PROVISIONS. POINTS OF ACCESS TO BE AS
SHOWN BELOW.

31+93.5	Class II
31+95.0	Class II
31+97.0	Class II
31+97.5	Class II
31+98.0	Class II

- SHOULDERS ARE TO BE SODDED AS SHOWN ON STANDARDS AND TYPICAL CROSS-SECTION AND ON MISCELLANEOUS STANDARD SHEET NO. 13
- WASTE MATERIAL TO BE PLACED IN AREA OF FUTURE NORTH BOUND LANE AS DIRECTED BY ENGINEER (SEE SPECIAL PROVISIONS)
- THE CONTRACTOR MUST ACCEPT THE PLAN QUANTITY OF SUBBASE AS SHOWN ON THE ESTIMATE OF QUANTITIES SHEET (SEE SPECIAL PROVISIONS)
- STANDARD PAVEMENT SECTION E-1 (HURDLEY 1963) TO BE USED ON THIS PROJECT
- TYPICAL CROSS SECTIONS AS SHOWN ON SHEETS NO. 8 TO BE USED ON THIS PROJECT
- STATE HIGHWAY COMMISSION OF INDIANA STANDARD SPECIFICATIONS DATED 1962, TO BE USED
- STANDARDS UNDER DATES AS LISTED IN INDEX ON TITLE SHEETS TO BE USED ON THIS PROJECT WITH THESE PLANS
- GRADE LINE AS SHOWN ON PROFILE REPRESENTS TOP OF FINISHED SURFACE.
- FOR KINDS OF PIPE PERMITTED FOR EACH SIZE AND CLASSIFICATION AS SHOWN ON THE STRUCTURE DATA SHEET
- SEE MISCELLANEOUS STANDARD SHEETS 819
- QUANTITIES FOR PIPE CULVERT HEADWALLS ARE BASED ON USING STANDARD HEADWALLS FOR RETAINING 24" OR 30"
- SLOPES AND PRIVATE DRIVE HEADWALLS FOR RETAINING WALLS OR FLATTER SLOPES
- ALL DITCHES OF 3% AND OVER SHALL BE SODDED EXCEPT WHERE PAVED SIDE DITCH IS TO BE CONSTRUCTED
- SODDING SHALL BE PLACED BEHIND BAYED SIDE DITCHES IN ACCORDANCE WITH STANDARD SHEET NO. 13
- EXCAVATION QUANTITIES AS SHOWN ON PLAN AND PROFILE SHEETS INCLUDE ESTIMATED EXCAVATION
- FOR PRIVATE AND PUBLIC APPROACHES AS SHOWN ON SHEET NO. 21
- SURFACES SHALL BE SUPERELEVATED IN ACCORDANCE WITH THE STANDARDS OF JANUARY 1961
- ALL DITCHES OF 3% GRADE AND OVER SHALL BE PAVED
- ALL EARTH SHOULDERS, Haul and Fill Slopes SHALL BE PLAIN OR MULCHED SEEDS EXCEPT WHERE SODDING IS SPECIFIED
- COVERHOLE AND OTHER HAZARD QUANTITIES AS SHOWN ON PLAN AND PROFILE SHEETS ARE FOR INFORMATION ONLY AND WILL NOT BE PAID FOR DIRECTLY
- ALL LIMITED ACCESS R/W TO BE FENCED WITH FARM FIELD TYPE FENCE AS SPECIFIED IN THE PLANS



FILE NO.	
DATE	
BY	
CHECKED	
DATE	
BY	

PROFILE	
DATE	
BY	
CHECKED	
DATE	
BY	

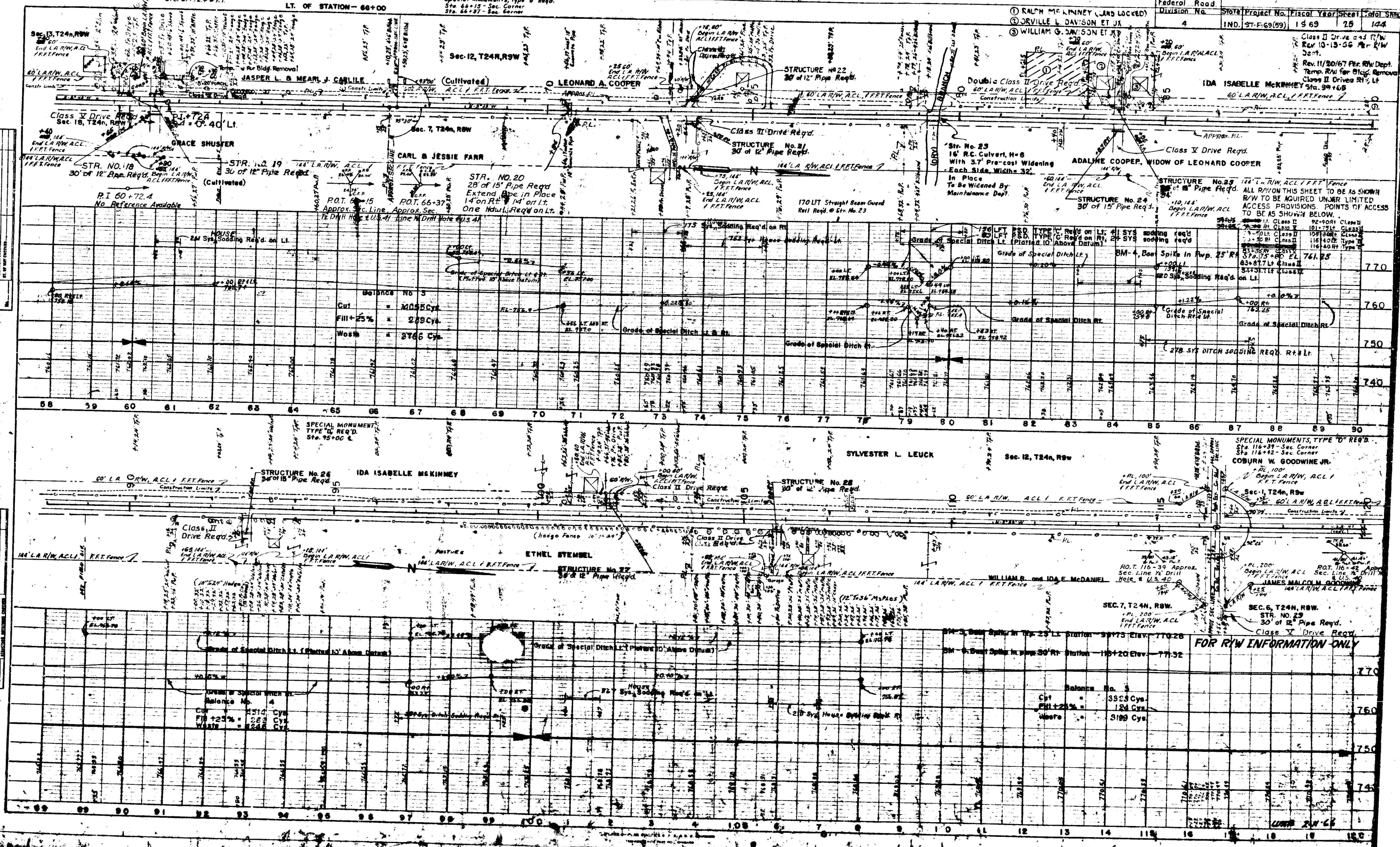
END 24-66

Special Monument Type "L" Req'd. BENCH MARK POST REQ'D
Sta. 61+72.4 @ P.I.
LT. OF STATION - 66+00

Special Monuments, Type "D" Req'd.
Sta. 66+19 - Sec. Corner
Sta. 66+37 - Sec. Corner

Division No.	State	Project No.	Fiscal Year	Sheet	Total Sheets
4	IND.	37-69(59)	1969	75	104

Class II Drive and R/W
Rev. 10-13-56 Per R/W
Dept.
Rev. 11/20/67 Per R/W Dept.
Temp. R/W for Class II Drive and R/W
Class II Drive and R/W
Sta. 69+68

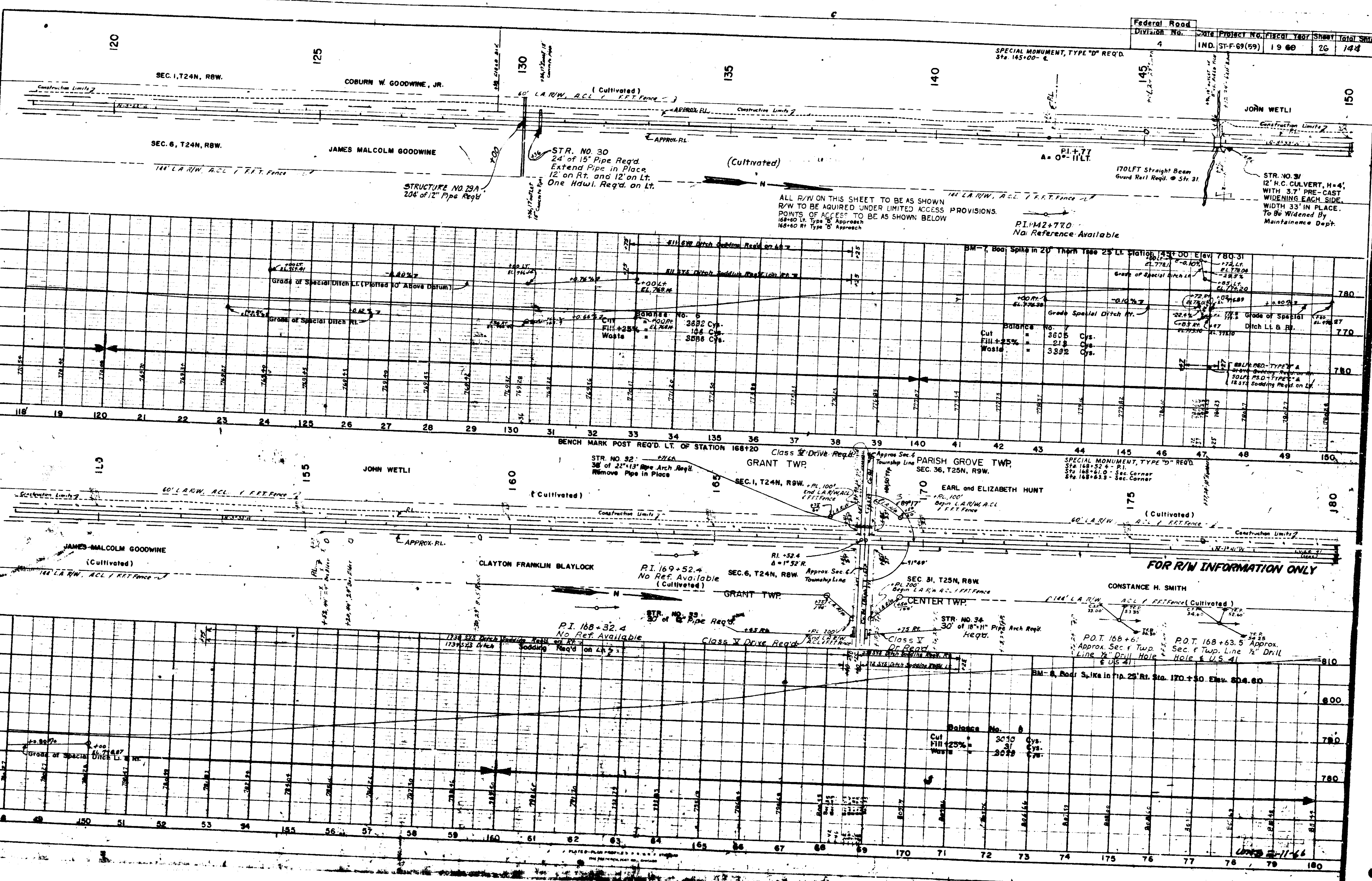


FILE NO. 37-69(59)-75
DATE 11/20/67
BY J. W. COOPER

PARCEL NO. 1
OWNER ADA ISABELLE MCKINNEY
ADDRESS 114 LARW, A.C.L. 1 FT FENCE

FOR R/W INFORMATION ONLY

Federal Road	Division No.	Project No.	Fiscal Year	Sheet	Total Sheets
4	IND.	ST-F-69(59)	1960	26	144

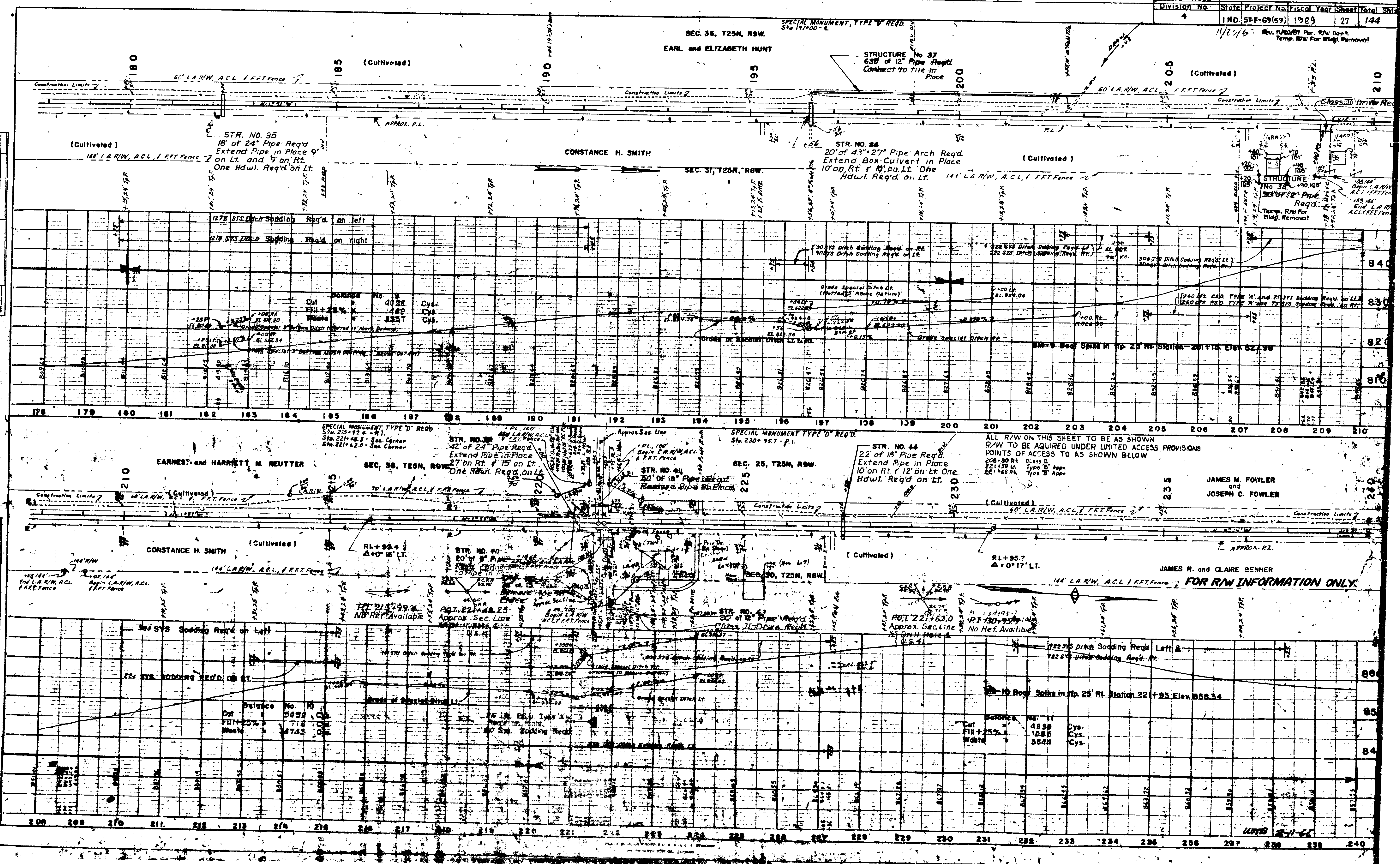


FILE	NO.
DATE	
BY	
REVISION	

FILE	NO.
DATE	
BY	
REVISION	

FOR R/W INFORMATION ONLY

PLANNED BY: [Illegible]
 DRAWN BY: [Illegible]
 CHECKED BY: [Illegible]
 DATE: 11-1-66



STR. NO. 35
 18" of 24" Pipe Req'd
 Extend Pipe in Place 9'
 on Lt. and 9' on Rt.
 One Hdwl. Req'd on Lt.

STR. NO. 37
 6.50' of 12" Pipe Req'd
 Connect to tile in
 Place

STR. NO. 38
 20' of 43" x 27" Pipe Arch Req'd
 Extend Box Culvert in Place
 10' on Rt. & 10' on Lt.
 Hdwl. Req'd on Lt.

STRUCTURE
 No. 38
 490' x 105'
 53' of 12" Pipe
 Req'd
 Temp. R/W For
 Bldg. Removal

Balance No.	10
Cut	5039
Fill	718
Waste	4745

ALL R/W ON THIS SHEET TO BE AS SHOWN
 R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS
 POINTS OF ACCESS TO AS SHOWN BELOW

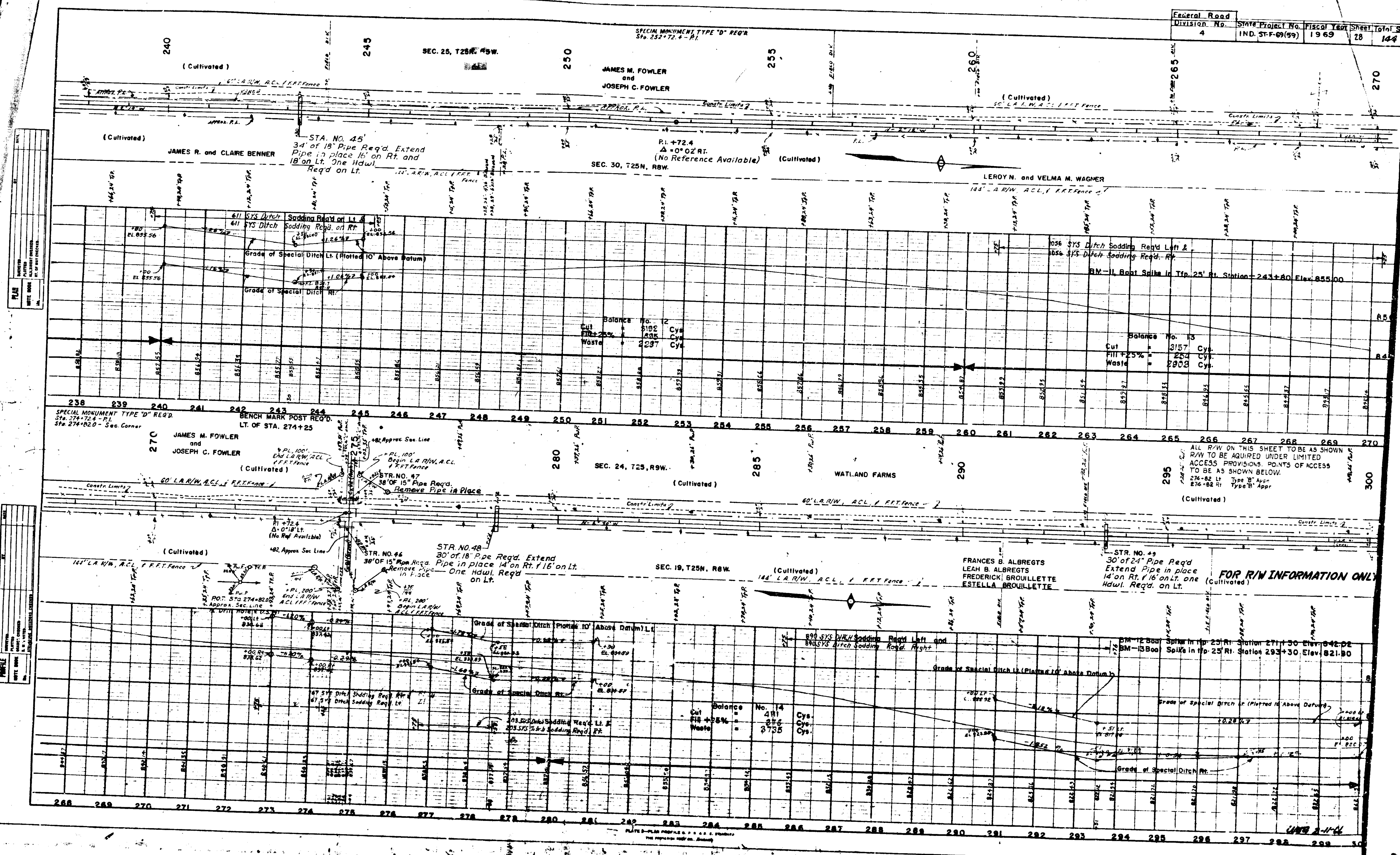
JAMES M. FOWLER
 and
 JOSEPH C. FOWLER

JAMES R. and CLARE BENNER
 FOR R/W INFORMATION ONLY

Balance No.	10
Cut	5039
Fill	718
Waste	4745

Balance No.	11
Cut	4838
Fill	1885
Waste	3642

Federal Road	Division No.	State Project No.	Fiscal Year	Sheet	Total
	4	IND. ST-F-69(59)	1969	28	144



PLAN	DATE	BY

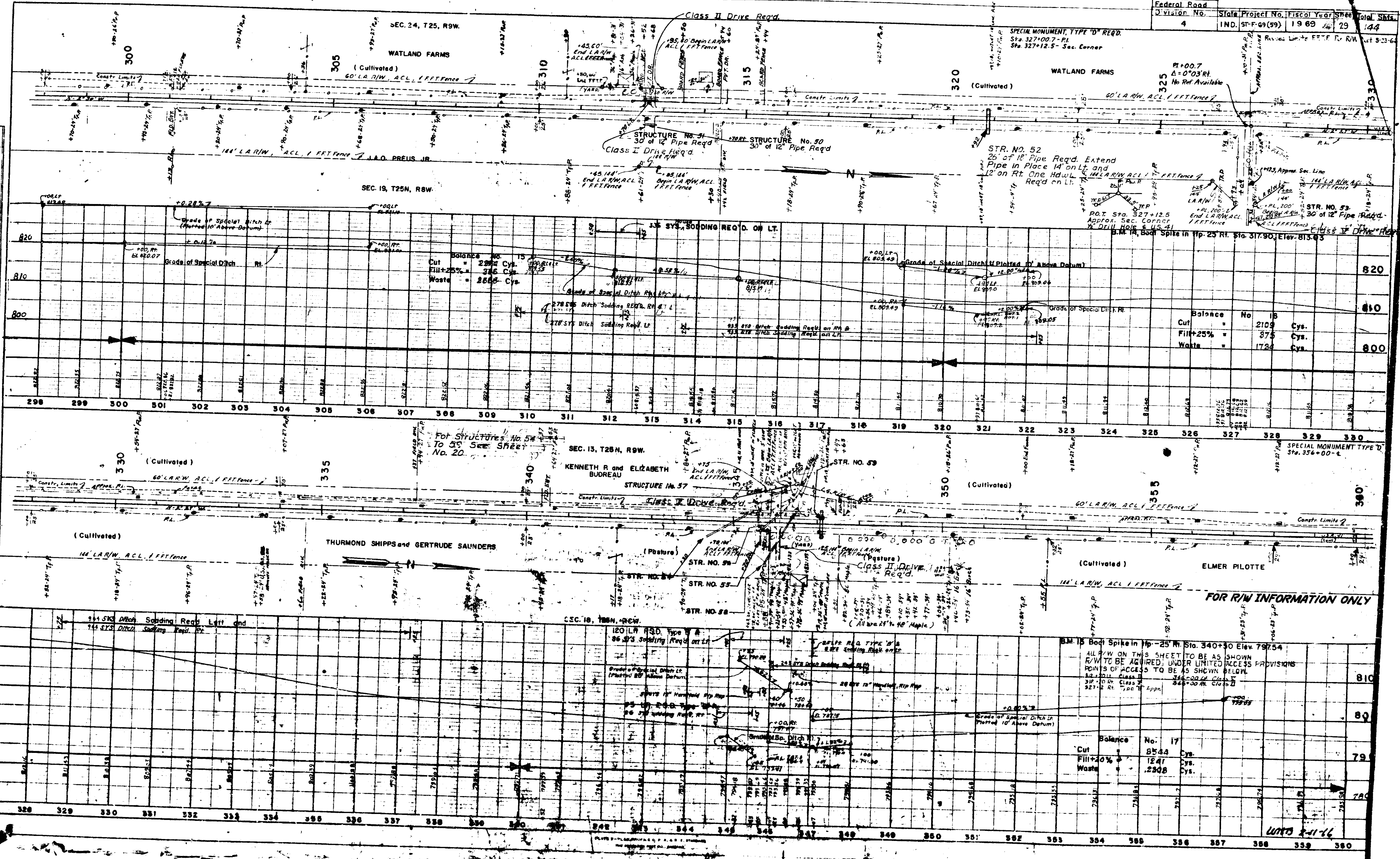
PROFILE	DATE	BY

ALL R/W ON THIS SHEET TO BE AS SHOWN
R/W TO BE ACQUIRED UNDER LIMITED
ACCESS PROVISIONS. POINTS OF ACCESS
TO BE AS SHOWN BELOW.

FOR R/W INFORMATION ONLY

SPECIAL MONUMENT TYPE "D" REQD.
Sta 304+00-6

Federal Road	Division No.	State Project No.	Fiscal Year	Sheet	Total Sheets
4	IND. ST-F-69(99)	1969	29	144	



Balance	No	16
Cut	2109	Cys.
Fill+25%	375	Cys.
Waste	1734	Cys.

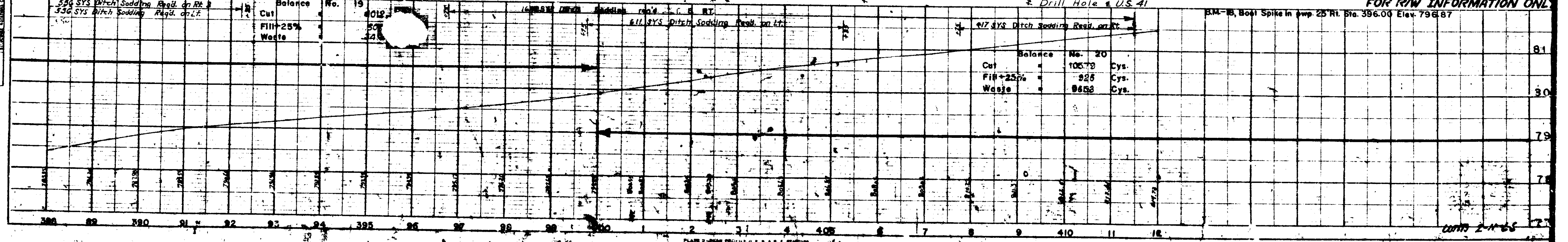
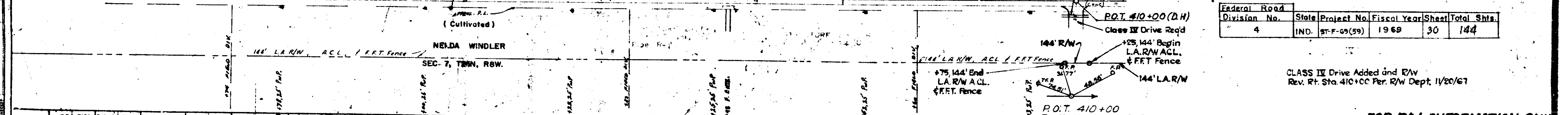
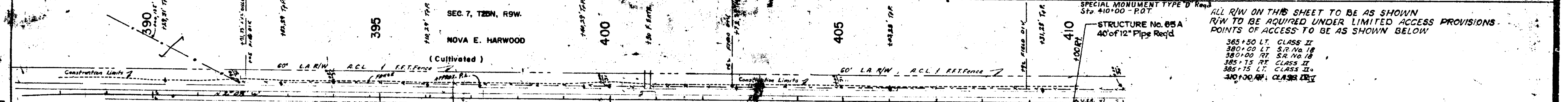
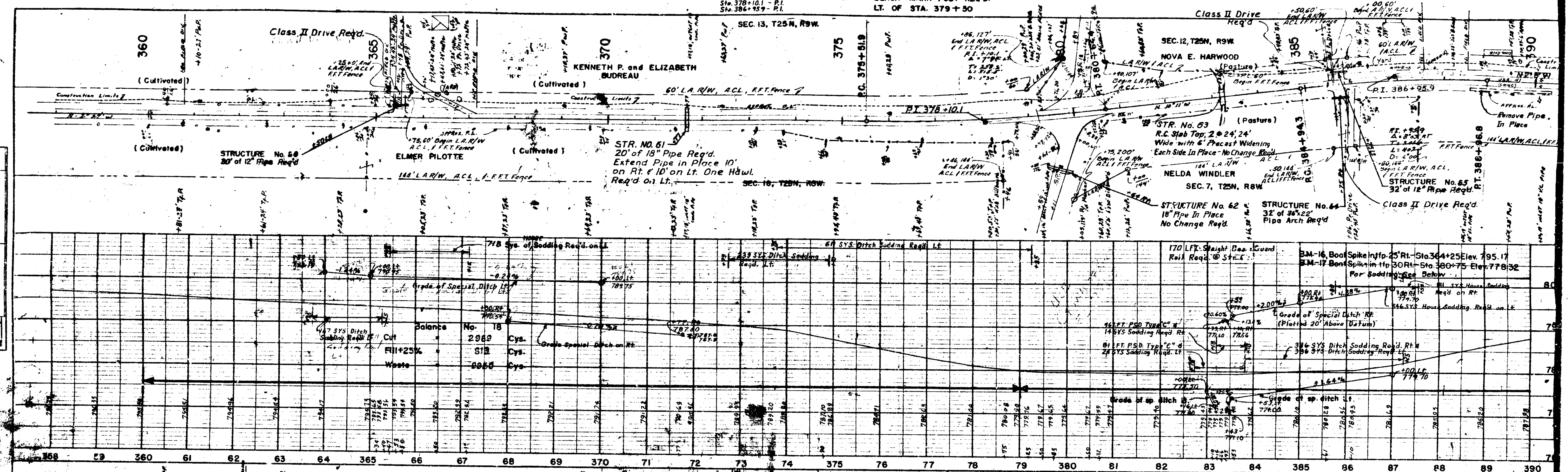
B.M. 15 Body Spike in Tp. 25 N. St. 340+30 Elev. 797.54
 ALL R/W ON THIS SHEET TO BE AS SHOWN
 R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS
 POINTS OF ACCESS TO BE AS SHOWN BELOW

Balance	No	17
Cut	85.44	Cys.
Fill+20%	12.41	Cys.
Waste	2308	Cys.

FOR R/W INFORMATION ONLY

10/25/66

SPECIAL MONUMENT TYPE 'D' REQ'D BENCH MARK POST REQ'D
 Sta. 378+10.1 - P.I. LT. OF STA. 379+50
 Sta. 386+95.9 - P.I.



ALL R/W ON THIS SHEET TO BE AS SHOWN
 R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
 POINTS OF ACCESS TO BE AS SHOWN BELOW

365+50 LT. CLASS II
 380+00 LT. S/R No. 18
 380+00 RT. S/R No. 18
 385+15 RT. CLASS II
 385+15 LT. CLASS II
 390+00 RT. CLASS II

Federal Road Division No.	State	Project No.	Fiscal Year	Sheet	Total Sheets
4	IND.	ST-F-09(59)	19 69	30	144

CLASS II Drive Added and R/W
 Rev. Rt. Sta. 410+00 Per. R/W Dept. 11/20/61

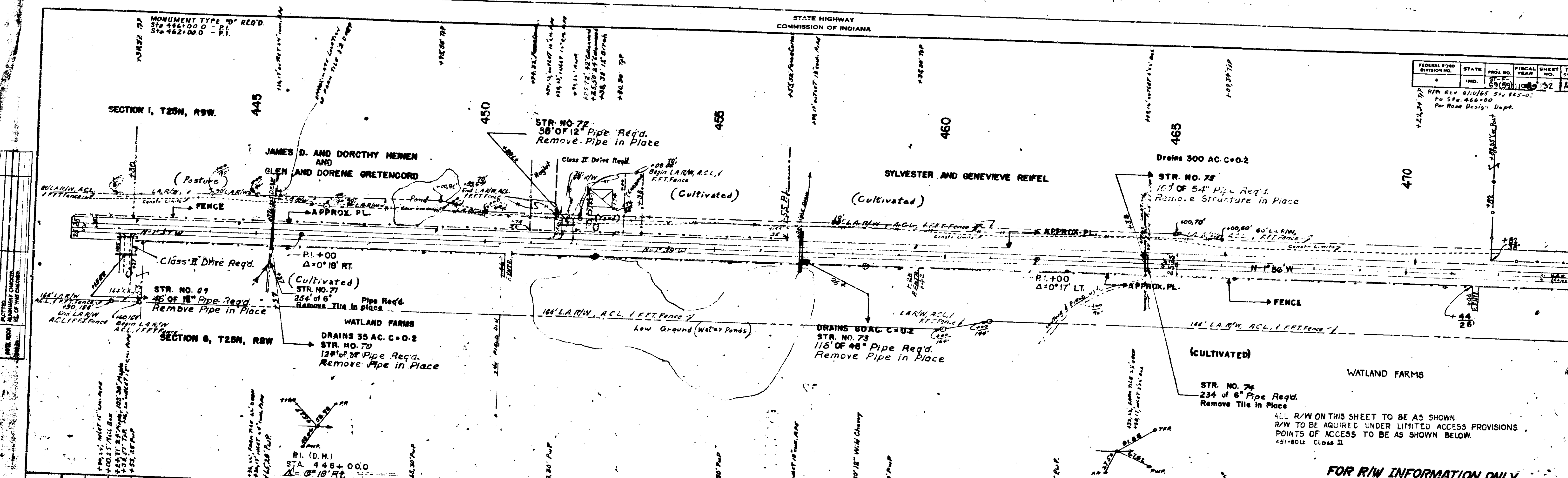
FOR R/W INFORMATION ONLY

PLAN
 PARTIAL
 UNADJUSTED CORRECTIONS
 DATE 11/20/61

PLAN
 PARTIAL
 UNADJUSTED CORRECTIONS
 DATE 11/20/61

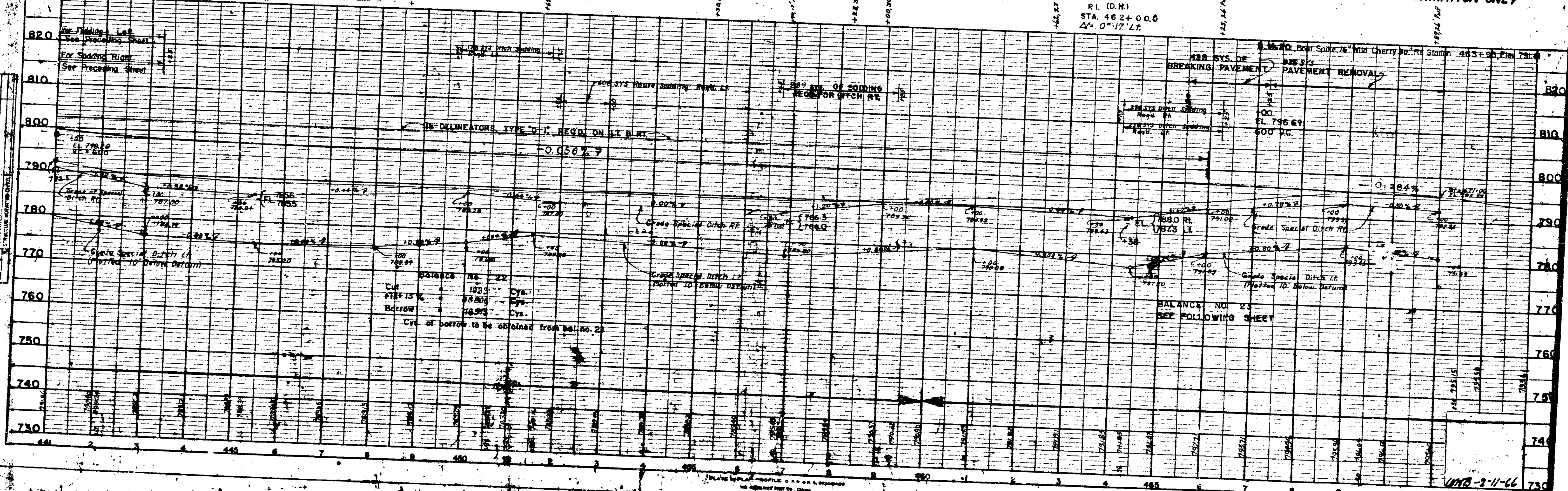
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	69(99)	1969	32	144

R/W REV 6/10/68 STA. 462+00 TO STA. 466+00 Per Road Design Dept.



ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW.
45+80.4 Class II

FOR R/W INFORMATION ONLY



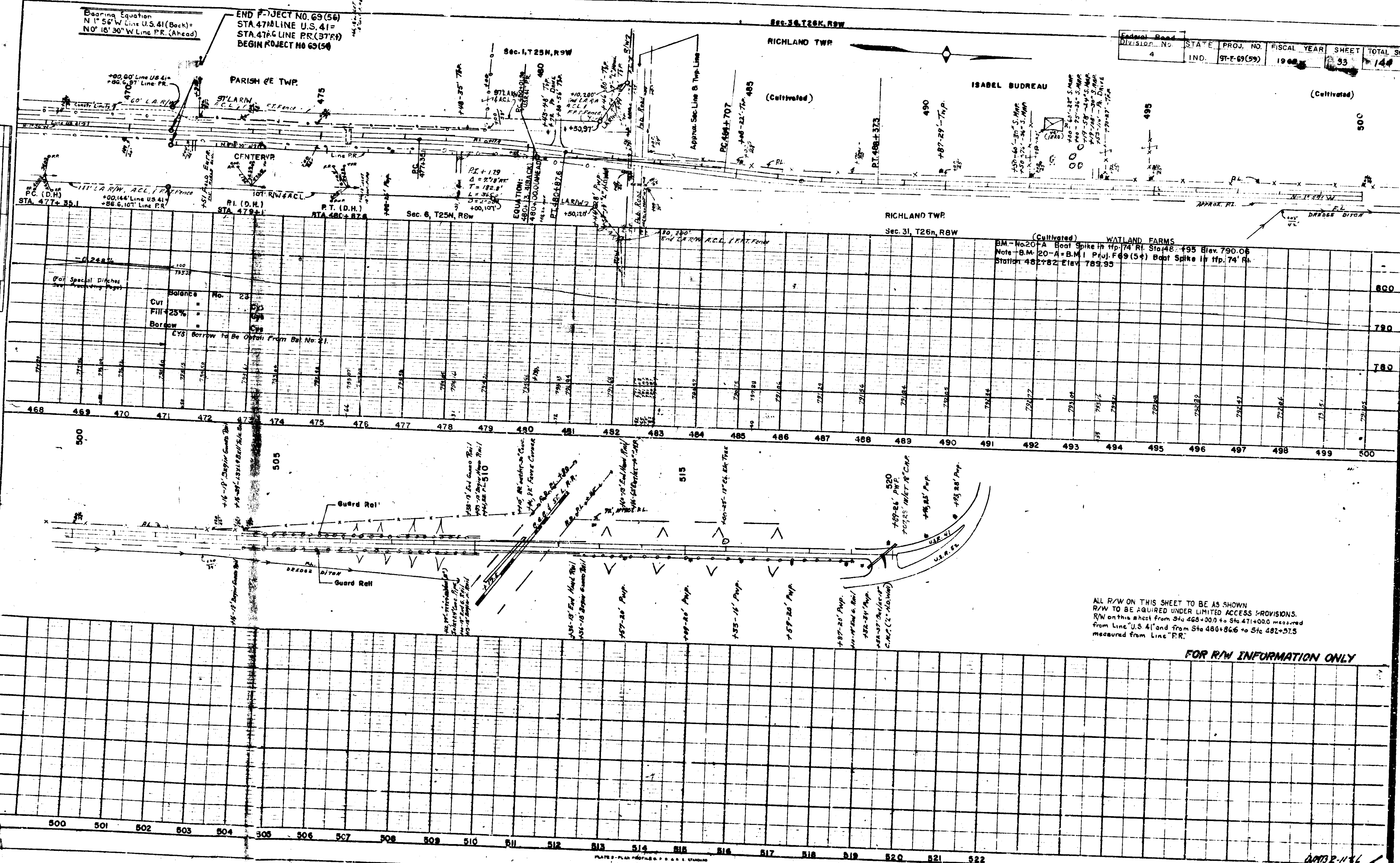
UMB-2-11-66

PROJ.	LINE	SHEET	PI.
69(99)	HH	32	

Bearing Equation
 N 1° 56' W Line U.S. 41 (Back)
 N 0° 16' 30" W Line P.R. (Ahead)

END PROJECT NO. 69 (56)
 STA. 477+00 LINE U.S. 41
 STA. 476+00 LINE P.R. (37' R)
 BEGIN PROJECT NO. 69 (56)

Federal Road Division No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET	TOTAL SH.
4	IND.	9T-P-69(59)	1968	33	144



For Special Ditches (See accompanying pages)

Balance No.	23
Cut +25%	0.00
Borrow	0.00
CYS Borrow to be Offset From Bal. No. 21	0.00

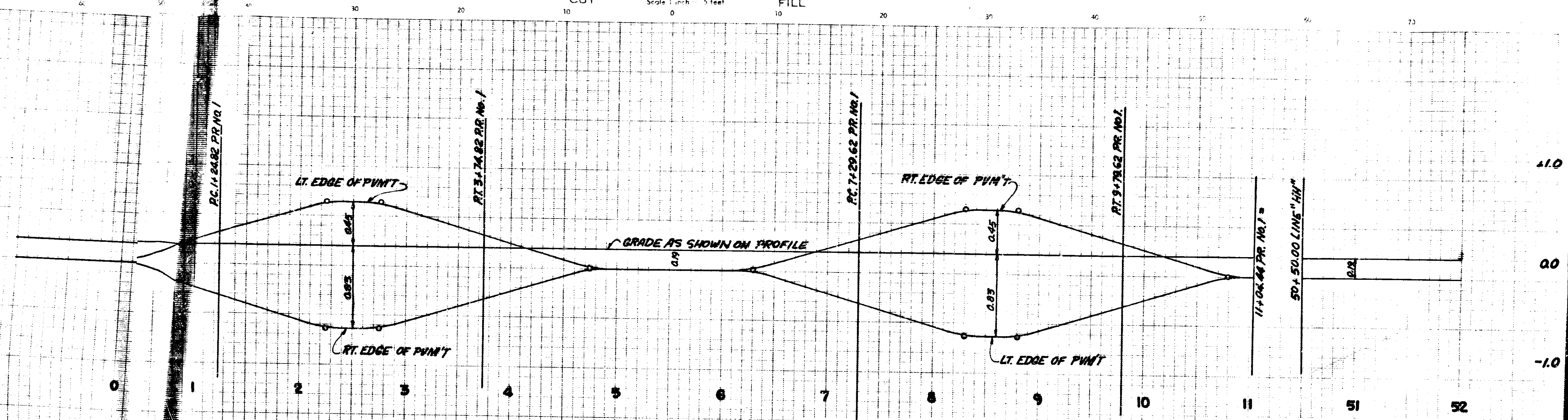
BM - No. 20 - A Boot Spike in Top of 74" Ri. Sta. 481+95 Elev. 790.06
 Note - B.M. 20 - A = B.M. 1 Proj. F-69 (54) Boot Spike in Top of 74" Ri.
 Station 481+82 Elev. 789.95

ALL R/W ON THIS SHEET TO BE AS SHOWN
 R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
 R/W on this sheet from Sta 468+00.0 to Sta 471+00.0 measured
 from Line "U.S. 41" and from Sta 480+86.6 to Sta 482+57.5
 measured from Line "P.R."

FOR R/W INFORMATION ONLY

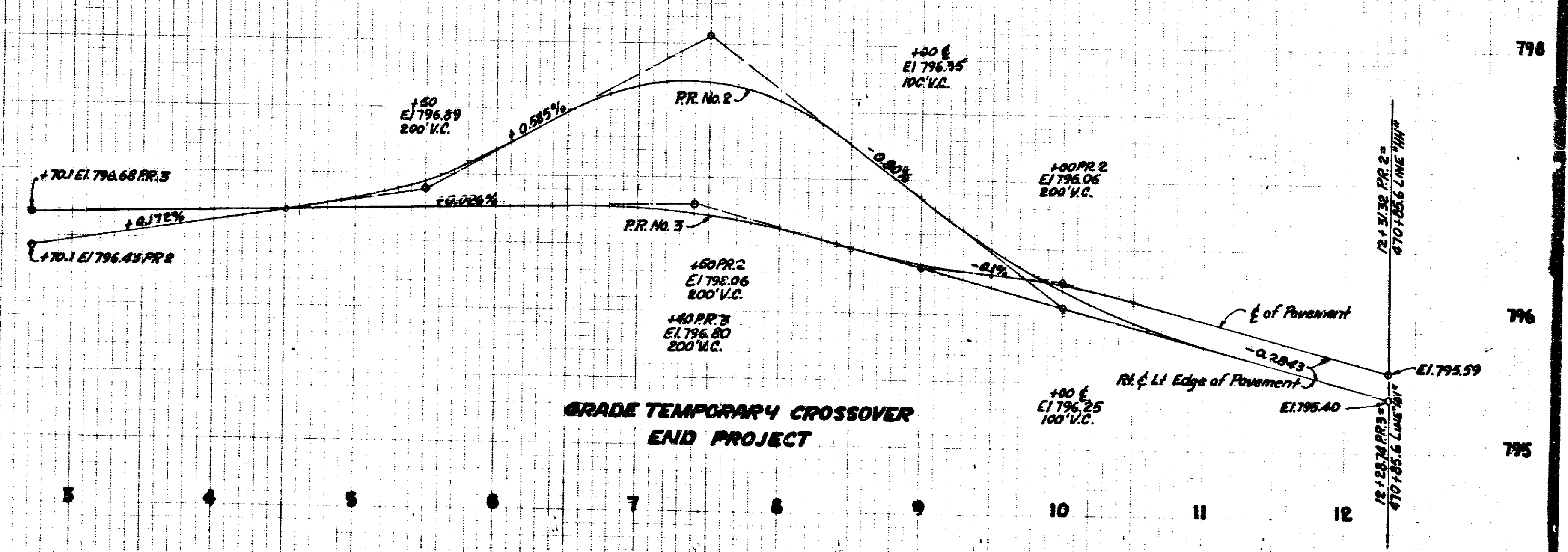
NOV 22 1968

CUT CROSS SECTIONS FILL
Scale 1 inch = 5 feet



TEMPORARY CROSSOVER
BEGINNING OF PROJECT

SUPERELEVATION DIAGRAM PR. No. 1
50 MPH $e = .055$

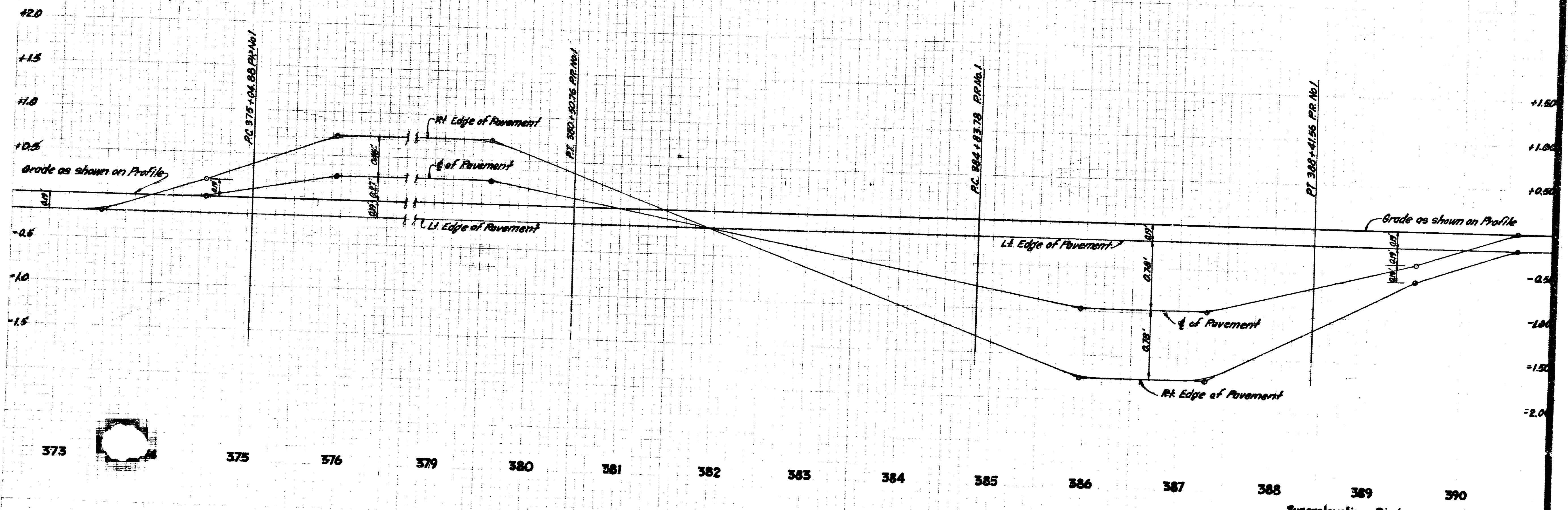


GRADE TEMPORARY CROSSOVER
END PROJECT

November 5, 1961

4 INCH 31'-63(09) 1969 34 144
HN

CROSS SECTIONS
Scale 1" = 10'



373 375 376 379 380 381 382 383 384 385 386 387 388 389 390

Superelevation Diagram
 Sta. 375+04.88 P.R. No. 1 to Sta. 380+82.76 P.R. No. 1 Sta. 384+83.78 P.R. No. 1 to Sta. 388+41.56 P.R. No. 1
 D = 1°28' e = 0.38 ft/ft D = 2°15' e = 0.65 ft/ft

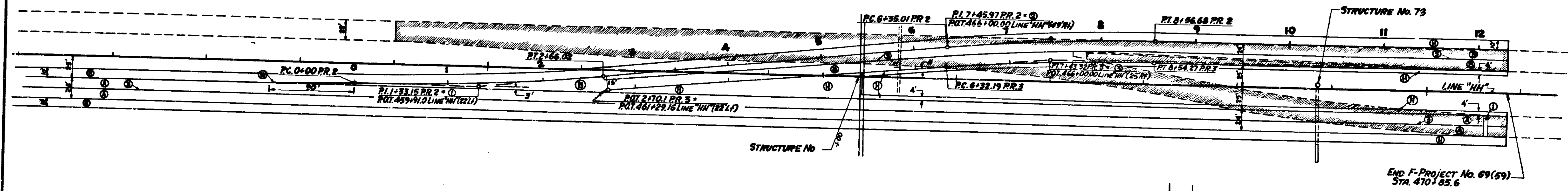
All V.C.'s = 40'
 Scale
 Horizontal - 1" = 50'
 Vertical - 1" = 5'

4470 C-10-19
 ST-F-69(99) 1969 35 144
 H.H.J.

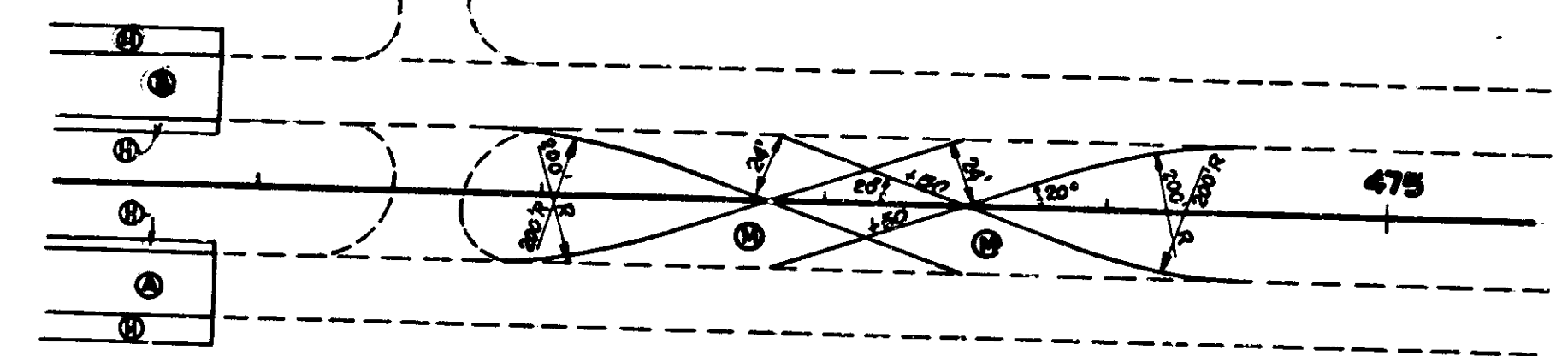
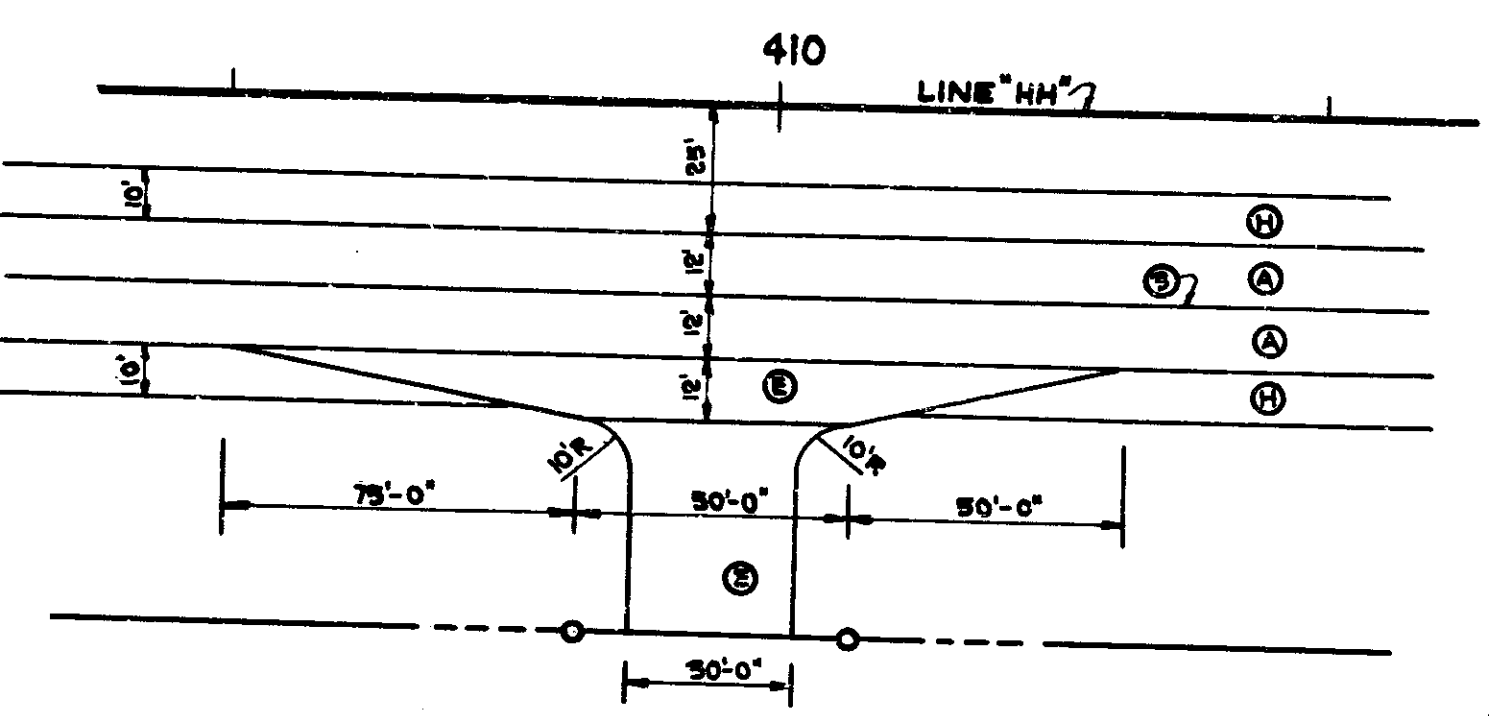
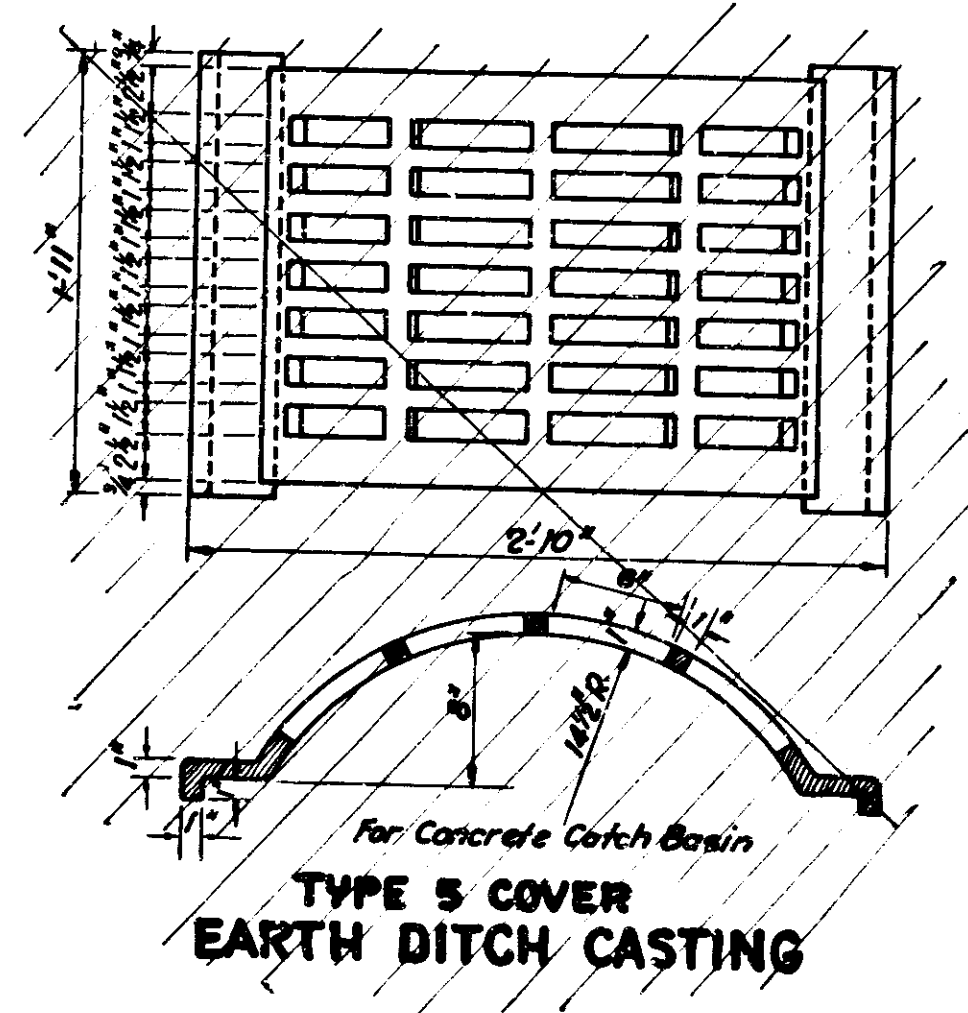
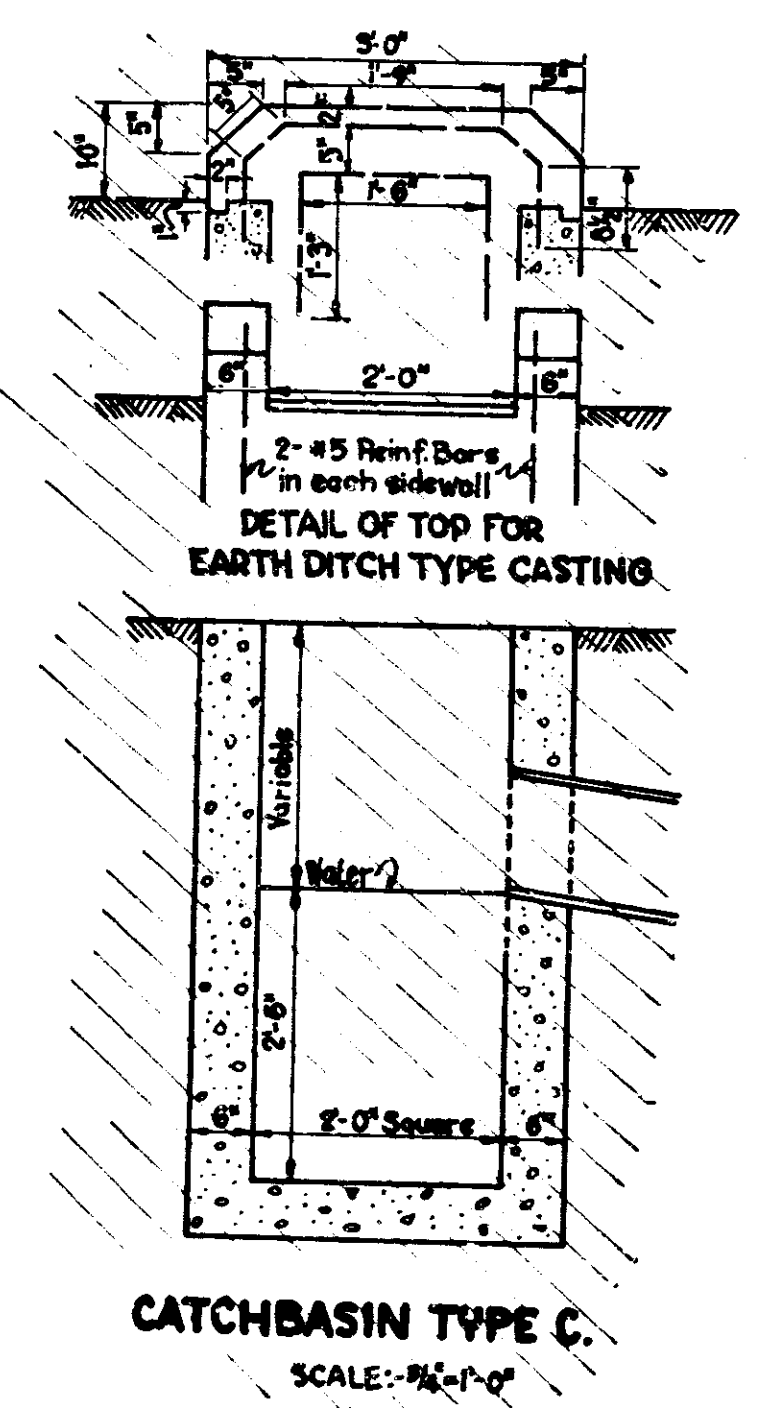
November 4, 1961

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-69(59)	1969	41	144

CURVE DATA ①	CURVE DATA ②	CURVE DATA ③
Δ = 6° 39'	Δ = 6° 39'	Δ = 5° 42'
D = 2° 30'	D = 3° 00'	D = 2° 34'
T = 133.15'	T = 110.96'	T = 111.15'
L = 266.02'	L = 221.61'	L = 222.08'
E = 3.66'	E = 3.22'	E = 2.76'



END F-PROJECT No. 69(59)
STA. 470+85.6



- LEGEND**
- (A) 8" C.R.C. PAVEMENT
 - (B) 8" PLAIN CONCRETE PAVEMENT
 - (H) 3" BITUMINOUS SHOULDER
 - (M) EAR CONSTRUCTION, TYPE "A"
 - (I) TERMINAL JOINT FOR C.R.C. PAVEMENT
 - (J) LONGITUDINAL JOINT
 - (K) PAVEMENT REMOVAL
 - (E) 330#/SYD. BITUM. MIXTURE FOR APPROACHES OVER 5" TYPE "P" COMPACTED AGGREGATE BASE
 - (N) 90#/SYD BITUM. SURFACE AND 240#/SYD BITUM. BASE OVER 5" TYPE "P" COMPACTED AGGREGATE BASE

DETAILS
SCALE 1" = 50'

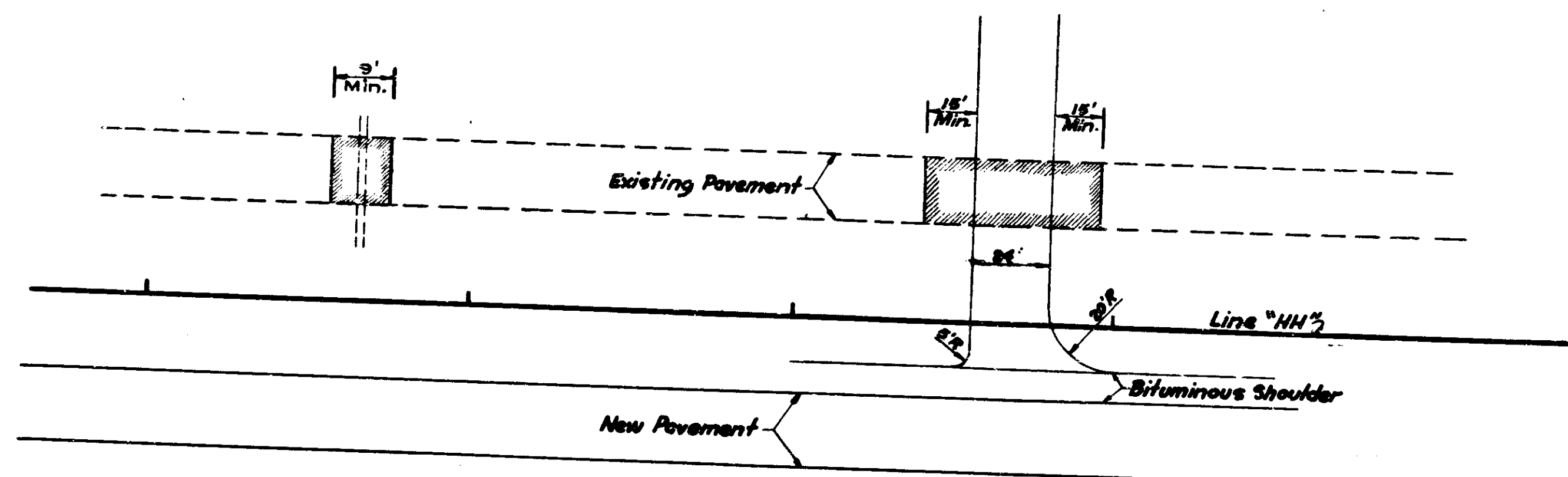
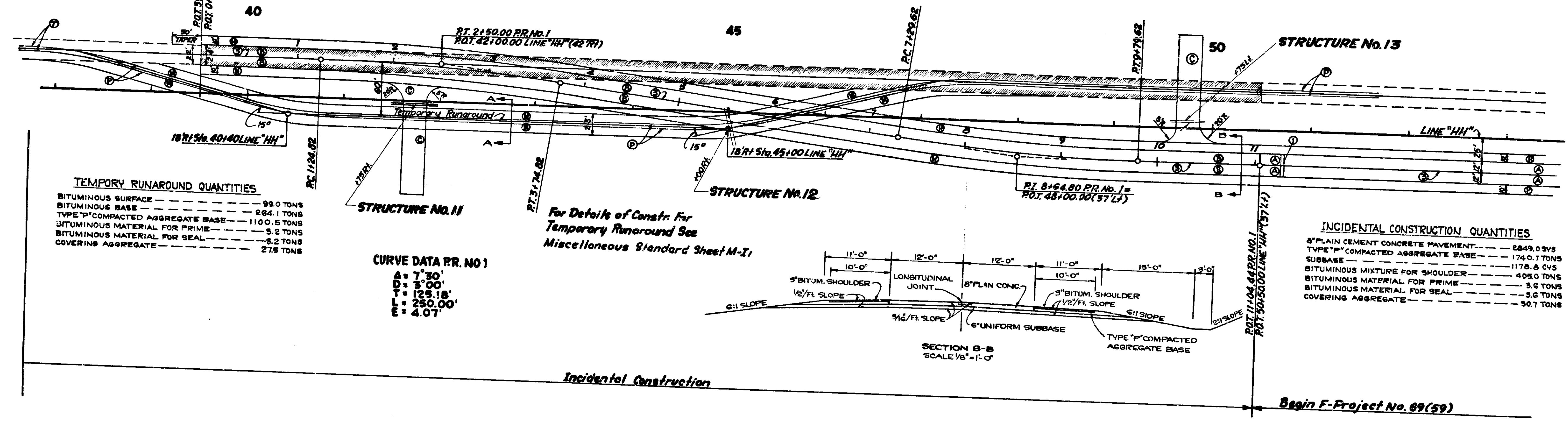
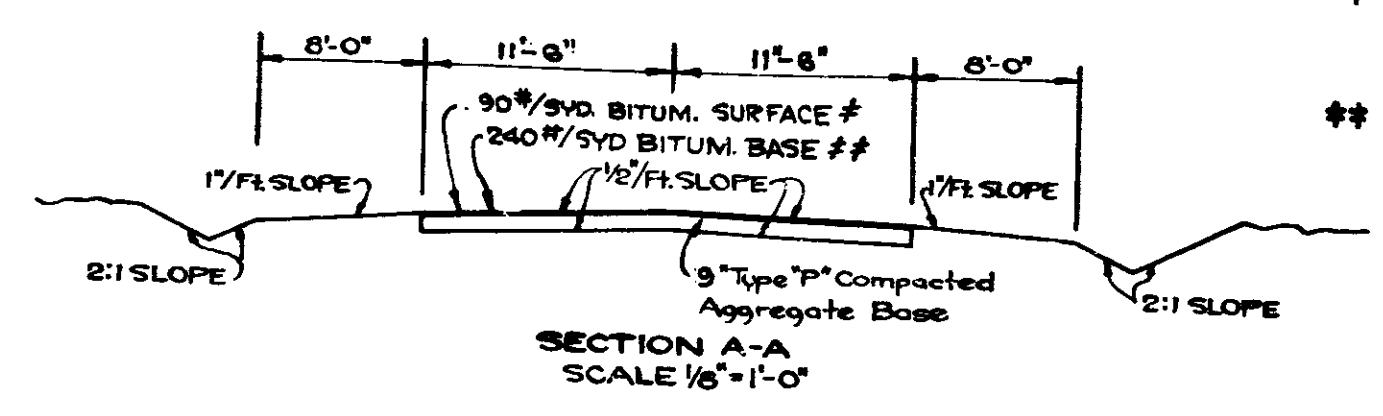
November 6, 1964

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
ST-F-69(59)	HH	41	144

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-69(59)	1969	36	144

* 90%/SYD HAC SURFACE TYPE B OR
 90%/SYD HAC SURFACE TYPE II
 240#/SYD BITUM. BASE OR
 ** 240#/SYD HAC BASE

CURVE DATA PR. NO. 1
 A = 7'-30"
 D = 3'-00"
 T = 125.18'
 L = 250.00'
 E = 4.07'



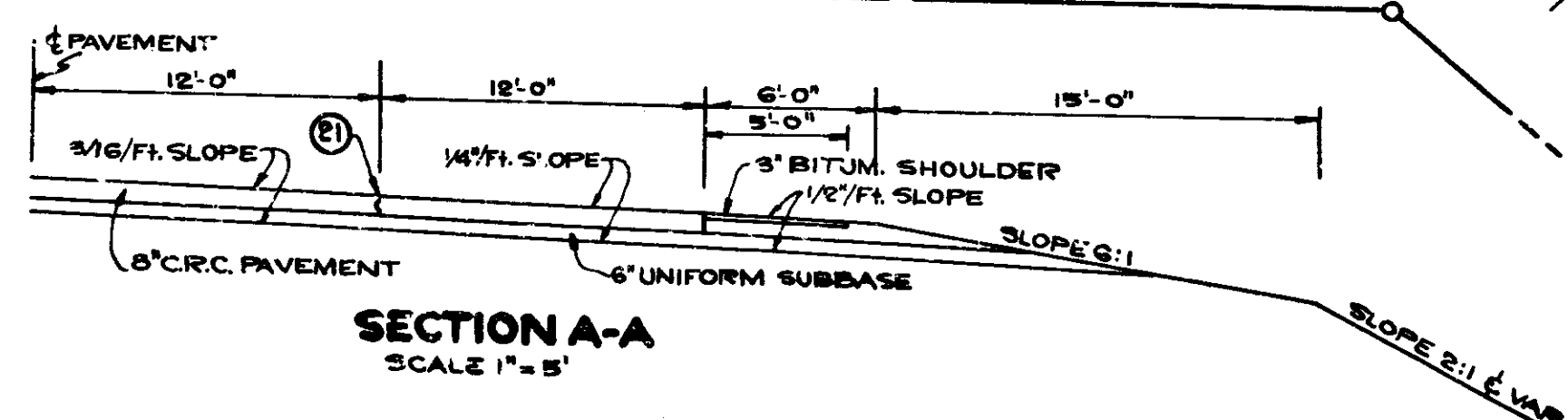
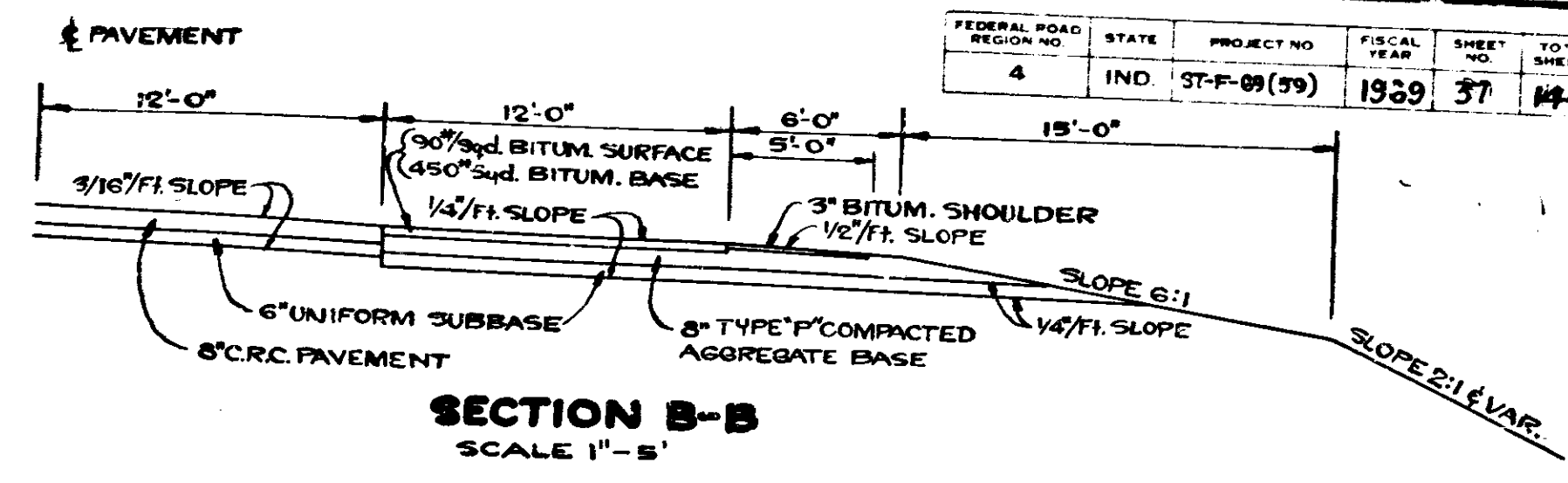
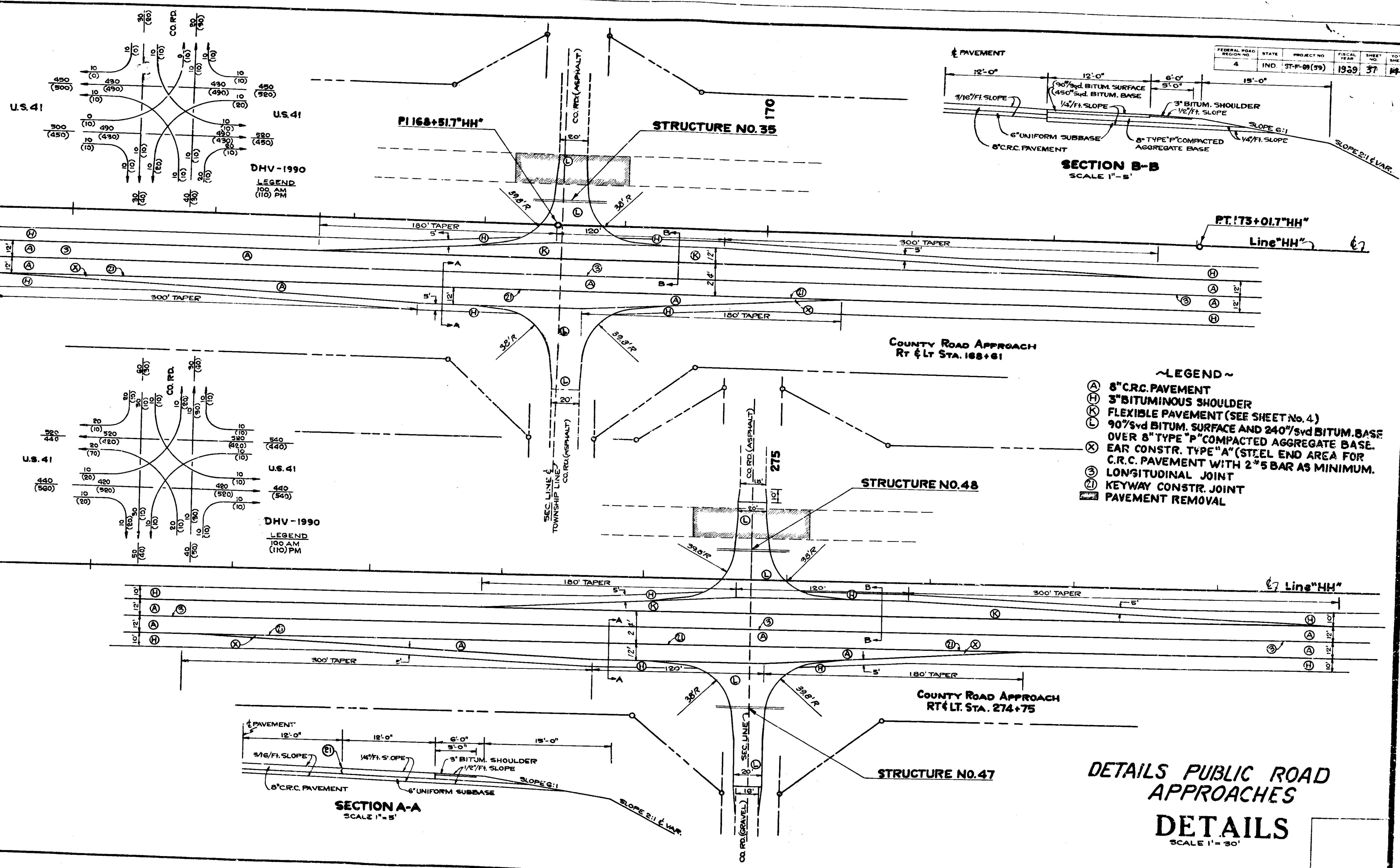
- LEGEND**
- (A) 6" C.R.C. PAVEMENT
 - (B) 5" PLAIN CONCRETE PAV'T
 - (C) BITUMINOUS MIXTURE FOR APPROACH
 - (H) 3" BITUMINOUS SHOULDER
 - (1) TERMINAL JOINT FOR C.R.C. PAV'T
 - (3) LONGITUDINAL JOINT
 - (P) PAVEMENT REMOVAL
 - (M) 90%/SYD BITUM. SURFACE AND 240#/SYD BITUM. BASE OVER 9" TYPE "P" COMPACTED AGGREGATE BASE
 - (P) TEMPORARY PAV'T MARKING (PAINT)
 - (T) TEMPORARY PAV'T MARKING (TAPE)

DETAILS
SCALE 1" = 50'

November 6, 1964

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
ST-F-69(59)	HH	36	144

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-09(59)	1959	37	144



- ~LEGEND~
- (A) 6" C.R.C. PAVEMENT
 - (B) 3" BITUMINOUS SHOULDER
 - (C) FLEXIBLE PAVEMENT (SEE SHEET No. 4)
 - (D) 90% SVD BITUM. SURFACE AND 240% SVD BITUM. BASE OVER 8" TYPE "P" COMPACTED AGGREGATE BASE.
 - (E) EAR CONSTR. TYPE "A" (STEEL END AREA FOR C.R.C. PAVEMENT WITH 2*5 BAR AS MINIMUM.
 - (F) LONGITUDINAL JOINT
 - (G) KEYWAY CONSTR. JOINT
 - (H) PAVEMENT REMOVAL

DETAILS PUBLIC ROAD APPROACHES
DETAILS
SCALE 1" = 30'

November 6, 1964

ST-F-09(59) HH 37 144

343

344

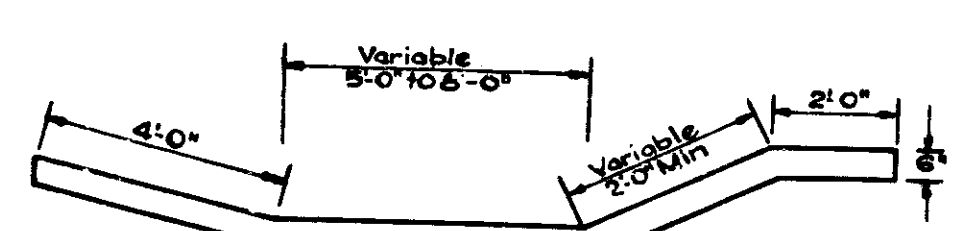
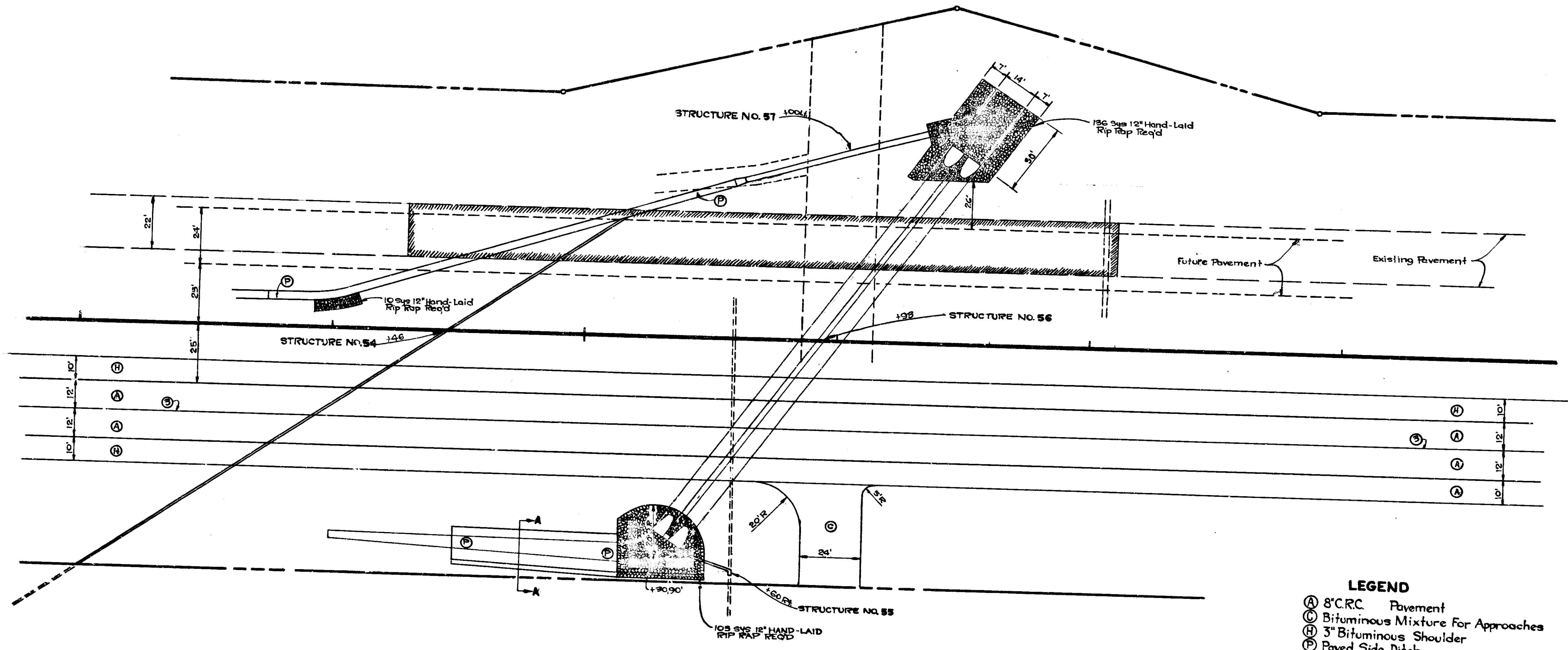
345

346

347

348

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-69(59)	1969	38	144



PAVED SIDE DITCH TYPE "P"
SCALE 3/8" = 1'-0"
SECTION A-A

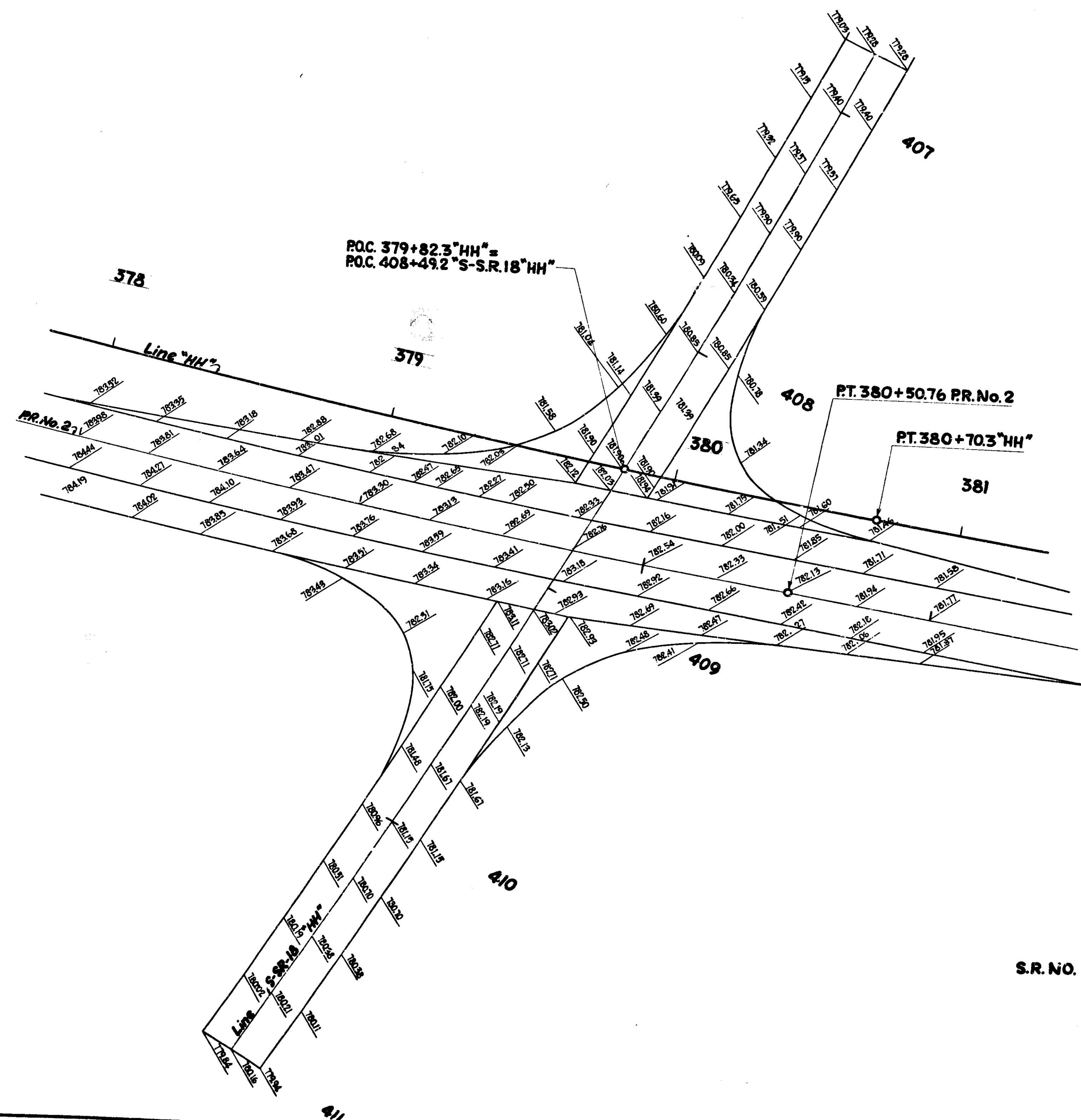
- LEGEND**
- (A) 8" C.R.C. Pavement
 - (B) Bituminous Mixture For Approaches
 - (C) 3" Bituminous Shoulder
 - (P) Paved Side Ditch
 - (S) Longitudinal Joint
 - (X) Pavement Removal

DETAILS
Scale 1" = 20'

November 6, 1964

PROJECT NO.	SHEET NO.	TOTAL SHEETS
ST-F-69(59) HW	38	144

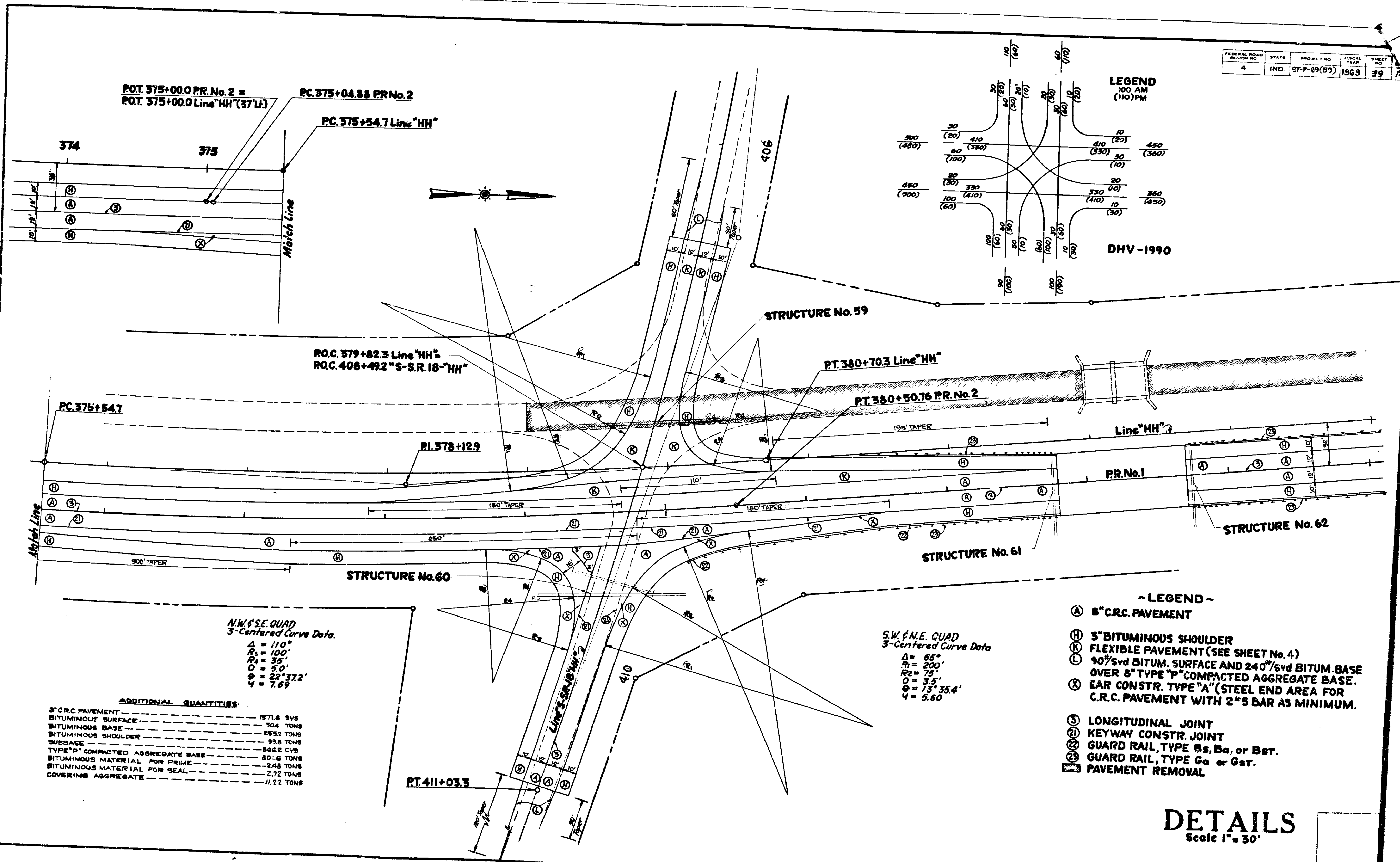
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-69(59)	1969	40	144



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
4	IND.	ST-F-69(59)	1963	39

LEGEND
100 AM
(110) PM

DHV-1990



N.W. & S.E. QUAD
3-Centered Curve Data
 $\Delta = 110^\circ$
 $R_1 = 100'$
 $R_2 = 35'$
 $O = 5.0'$
 $\phi = 22^\circ 37.2'$
 $Y = 7.69$

S.W. & N.E. QUAD
3-Centered Curve Data
 $\Delta = 65^\circ$
 $R_1 = 200'$
 $R_2 = 75'$
 $O = 3.5'$
 $\phi = 13^\circ 35.4'$
 $Y = 5.60$

ADDITIONAL QUANTITIES

8" C.R.C. PAVEMENT	1571.6 SYS
BITUMINOUS SURFACE	504 TONS
BITUMINOUS BASE	2552 TONS
BITUMINOUS SHOULDER	99.8 TONS
SUBBASE	566.2 CYS
TYPE "P" COMPACTED AGGREGATE BASE	801.6 TONS
BITUMINOUS MATERIAL FOR PRIME	2.48 TONS
BITUMINOUS MATERIAL FOR SEAL	2.72 TONS
COVERING AGGREGATE	11.22 TONS

- ~ LEGEND ~
- (A) 8" C.R.C. PAVEMENT
 - (H) 3" BITUMINOUS SHOULDER
 - (X) FLEXIBLE PAVEMENT (SEE SHEET No. 4)
 - (L) 90% SYD BITUM. SURFACE AND 240% SYD BITUM. BASE OVER 8" TYPE "P" COMPACTED AGGREGATE BASE.
 - (X) EAR CONST. TYPE "A" (STEEL END AREA FOR C.R.C. PAVEMENT WITH 2*5 BAR AS MINIMUM.)
 - (S) LONGITUDINAL JOINT
 - (K) KEYWAY CONST. JOINT
 - (G) GUARD RAIL, TYPE Gs, Ba, or Bsr.
 - (G) GUARD RAIL, TYPE Ga or Gst.
 - (R) PAVEMENT REMOVAL

DETAILS
Scale 1" = 30'

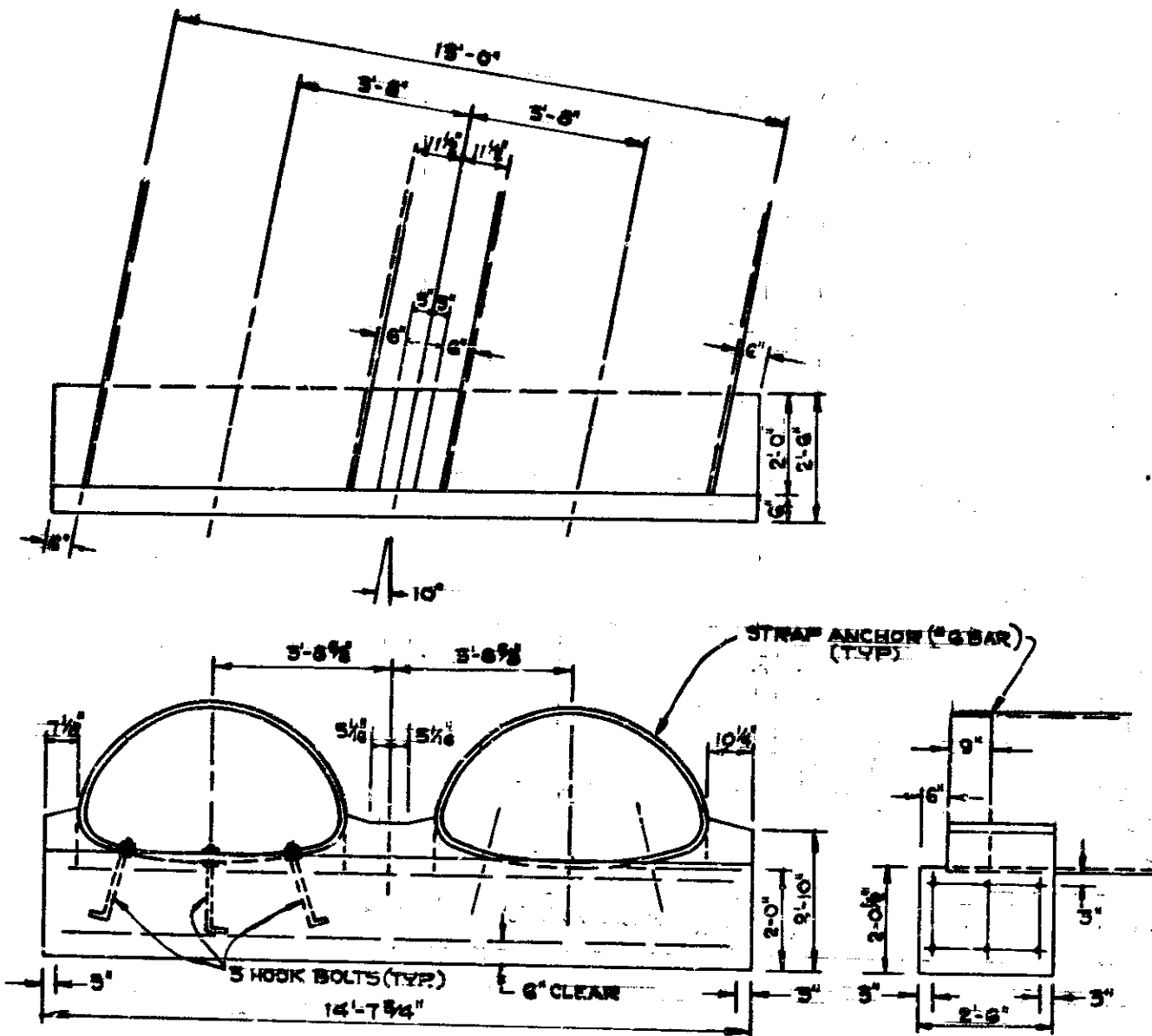
November 6, 1964

SUBBASE DRAIN PIPE TABLE							
LOCATION	LINE	OUTLET	GROUP	DELIN-ATOR	SCODING	Non-Per FPCCS	REMARKS
			Lt.	Lt.	SYS.	Lt.	
52+50 to 60+30 Lt.		52+05	780	1	2	52	1-30° Bend
60+30 to 69+00 Lt.		59+95	870	1	2	50	1-45° Bend
69+00 to 79+00 Lt.			1000				Connect to Str. No. 20
79+00 to 84+60 Lt.			860				Connect to Str. No. 20
84+60 to 95+55 Lt.		84+25	1095	1	2	50	1-45° Bend
93+55 to 102+40 Lt.		93+20	885	1	2	50	1-45° Bend
102+40 to 110+35 Lt.		102+05	795	1	2	50	1-45° Bend
110+35 to 117+15 Lt.		110+00	680	1	2	50	1-45° Bend
117+15 to 127+70 Lt.		116+80	1055	1	2	50	1-45° Bend
127+70 to 137+00 Lt.			930				Connect to Str. No. 32
137+00 to 146+80 Lt.		136+75	980	1	2	36	1-45° Bend
146+80 to 158+30 Lt.			1150				Connect to Str. No. 34
158+30 to 169+35 Lt.		158+00	1105	1	2	42	1-45° Bend
169+35 to 182+20 Lt.		169+00 Lt.	1295	1	2	50	1-45° Bend
182+20 to 190+25 Lt.			795				Connect to Str. No. 36
190+25 to 200+40 Lt.		190+00 Lt.	1015	1	2	36	1-45° Bend
200+40 to 209+35 Lt.		200+00 Lt.	835	1	2	56	1-45° Bend
209+35 to 220+00 Lt.		209+10 Lt.	1050	1	2	70	1-45° Bend
220+00 to 230+00 Lt.			1000				Connect to Str. No. 40
230+00 to 239+65 Lt.		240+00 Lt.	965	1	2	50	1-45° Bend
239+65 to 247+65 Lt.		248+00 Lt.	800	1	2	50	1-45° Bend
247+65 to 256+75 Lt.		257+00 Lt.	910	1	2	36	1-45° Bend
256+75 to 265+65 Lt.		266+00	890	1	2	50	1-45° Bend
265+65 to 273+95 Lt.		274+35 Lt.	830	1	2	56	1-45° Bend
273+95 to 283+60 Lt.		284+00 Lt.	965	1	2	56	1-45° Bend
283+60 to 293+45 Lt.			985				Connect to Str. No. 49
293+45 to 302+75 Lt.		303+00 Lt.	930	1	2	36	1-45° Bend
302+75 to 312+05 Lt.		312+30 Lt.	930	1	2	36	1-45° Bend
312+05 to 320+90 Lt.			885				Connect to Str. No. 52
320+90 to 326+70 Lt.		327+10 Lt.	880	1	2	56	1-45° Bend
326+70 to 335+70 Lt.		336+00 Lt.	900	1	2	42	1-45° Bend
335+70 to 345+50 Lt.			930				Connect to Str. No. 56
345+50 to 355+75 Lt.		356+00 Lt.	1025	1	2	36	1-45° Bend
355+75 to 364+95 Lt.		365+20 Lt.	920	1	2	36	1-45° Bend
364+95 to 371+75 Lt.		372+00 Lt.	680	1	2	36	1-45° Bend
371+75 to 378+50 Lt.		379+00 Lt.	675	1	2	70	1-45° Bend
378+50 to 382+65 Lt.			415	1	2		One 90° Bend
382+65 to 394+25 Lt.		383+75 Lt.	1050	1	2		One 90° Bend
394+25 to 405+25 Lt.		394+00 Lt.	1100	1	2	36	1-45° Bend
405+25 to 415+60 Lt.		405+00 Lt.	1035	1	2	36	1-45° Bend
415+60 to 422+00 Lt.		415+35 Lt.	640	1	2	36	1-45° Bend
422+00 to 432+00 Lt.		432+00 Lt.	1075	1	2	106	1-45° Bend
432+00 to 441+50 Lt.		441+75 Lt.	875	1	2	36	1-45° Bend
441+50 to 452+00 Lt.		452+00 Lt.	1050	1	2	35	One The Req'd
452+00 to 464+00 Lt.		452+00 Lt.	1200	1	2		
464+00 to 470+86 Lt.			586				1-The Req'd Connect to Str. No. 73
Subtotal			41911	35	70	1651	

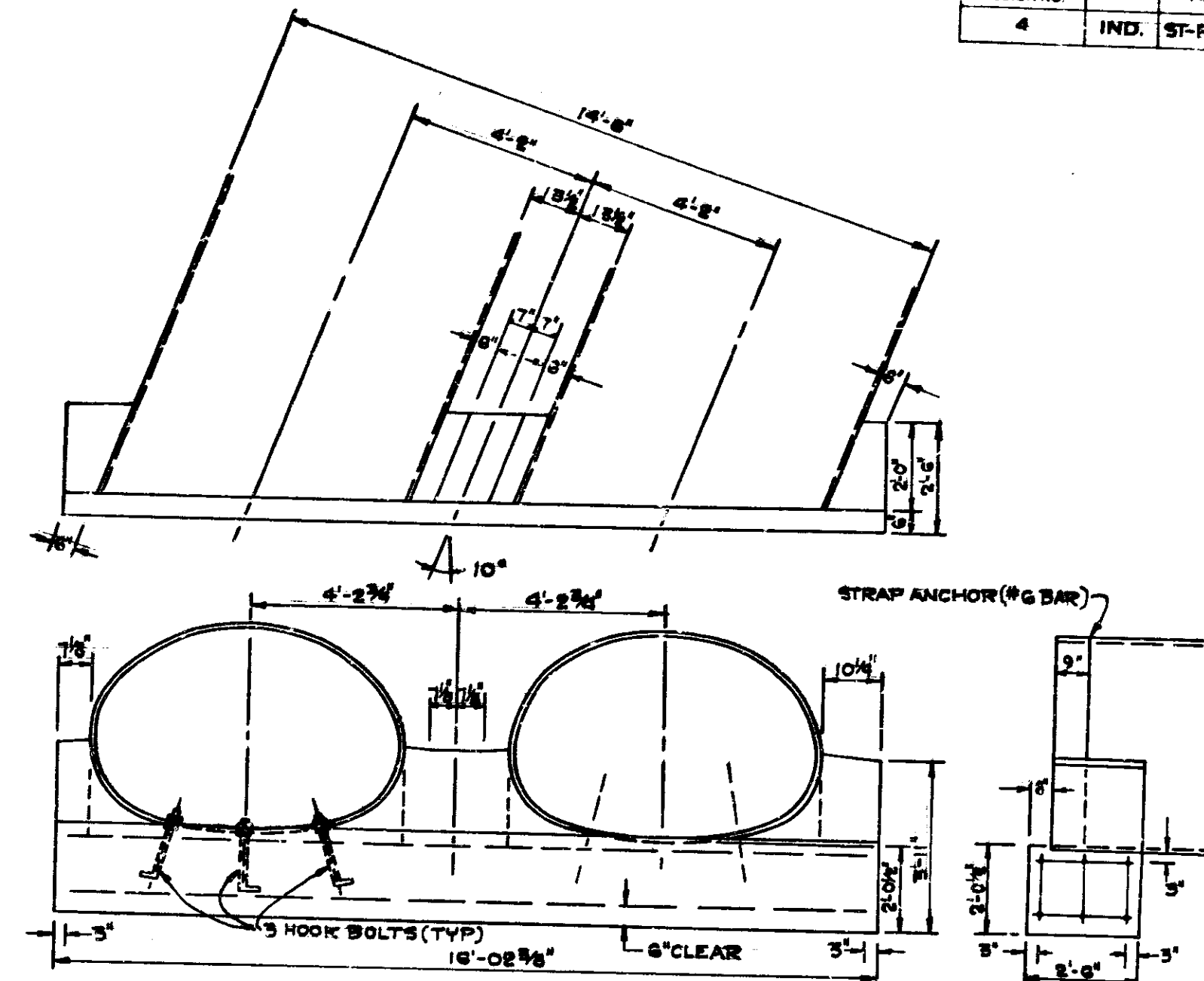
SUBBASE DRAIN PIPE TABLE							
LOCATION	LINE	OUTLET	GROUP	DELIN-ATOR	SCODING	Non-Per FPCCS	REMARKS
			Lt.	Lt.	SYS.	Lt.	
52+50 to 60+30 Rt.		52+05	780	1	2	52	1-30° Bend
60+30 to 69+00 Rt.		59+95	870	1	2	50	1-45° Bend
69+00 to 79+00 Rt.			1000				Connect to Str. No. 20
79+00 to 84+60 Rt.			860				Connect to Str. No. 20
84+60 to 93+55 Rt.		84+25	1095	1	2	50	1-45° Bend
93+55 to 102+40 Rt.		93+20	885	1	2	50	1-45° Bend
102+40 to 110+35 Rt.		102+05	795	1	2	50	1-45° Bend
110+35 to 117+15 Rt.		110+00	680	1	2	50	1-45° Bend
117+15 to 122+00 Rt.		116+80	1055	1	2	50	1-45° Bend
122+00 to 137+00 Rt.			930				Connect to Str. No. 32
137+00 to 146+80 Rt.		136+75	980	1	2	36	1-45° Bend
171+50 to 181+50 Rt.		171+25 Rt.	1000	1	2	36	1-45° Bend
181+50 to 190+00 Rt.			770				Connect to Str. No. 36
190+00 to 217+50 Rt.		189+75	1000	1	2	36	1-45° Bend
217+50 to 230+00 Rt.		212+25	500	1	2	36	1-45° Bend
230+00 to 239+00 Rt.			1050				Connect to Str. No. 40
239+00 to 256+00 Rt.		239+25 Rt.	900	1	2	36	1-45° Bend
256+00 to 267+00 Rt.		256+25 Rt.	1000	1	2	36	1-45° Bend
267+00 to 290+75 Rt.		267+25 Rt.	1100	1	2	36	1-45° Bend
290+75 to 307+50 Rt.		290+75 Rt.	1125	1	2	36	1-45° Bend
307+50 to 317+50 Rt.		307+75 Rt.	1200	1	2	36	1-45° Bend
317+50 to 334+50 Rt.		317+85 Rt.	1200	1	2	36	1-45° Bend
334+50 to 357+00 Rt.		334+75 Rt.	1200	1	2	36	1-45° Bend
357+00 to 368+00 Rt.		356+75 Rt.	1100	1	2	36	1-45° Bend
368+00 to 378+50 Rt.		368+25 Rt.	1100	1	2	36	1-45° Bend
378+50 to 383+00 Rt.		378+25 Rt.	1050	1	2	64	1-45° Bend
383+00 to 403+00 Rt.		383+75 Rt.	925	1	2		1-50° Bend
403+00 to 413+00 Rt.		393+75 Rt.	1000	1	2	36	1-45° Bend
413+00 to 423+00 Rt.		402+00 Rt.	1000	1	2	42	1-45° Bend
423+00 to 432+50 Rt.		412+55 Rt.	1000	1	2	50	1-45° Bend
432+50 to 442+50 Rt.		432+85 Rt.	950	1	2	50	1-45° Bend
		443+00 Rt.	1000	1	2	70	1-45° Bend
149+00 to 158+00 Rt.		148+65 Rt.	900	1	2	50	1-45° Bend
158+00 to 166+00 Rt.		157+70 Rt.	800	1	2	40	1-45° Bend
166+00 to 176+00 Rt.		165+	1000	1	2	40	1-45° Bend
Subtotal			41450	30	60	1336	
UNDISTRIBUTED			2000				
Total			43450	60	120	2672	

DETAILS

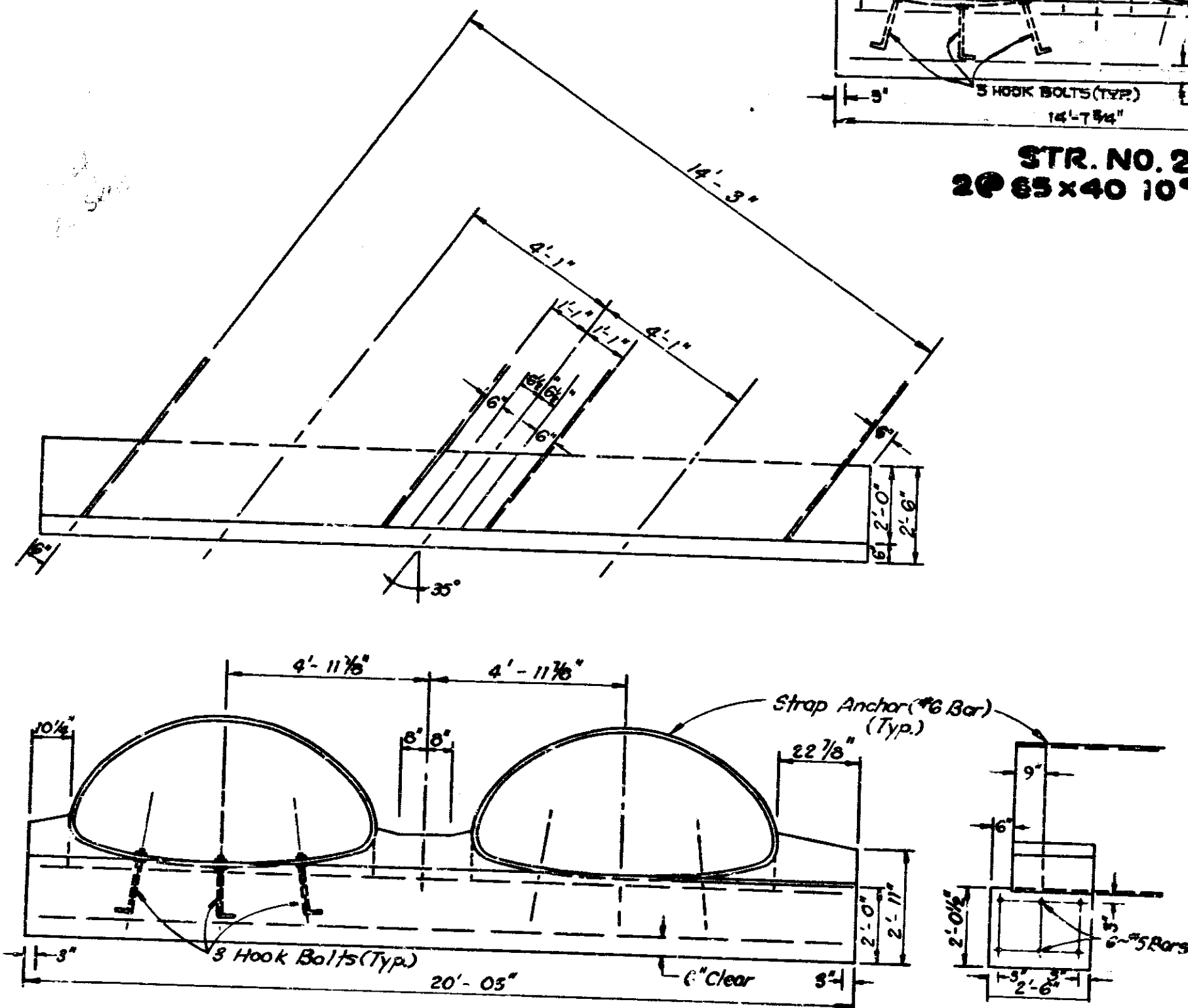
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ST-F-03(33)	1967	45A	144



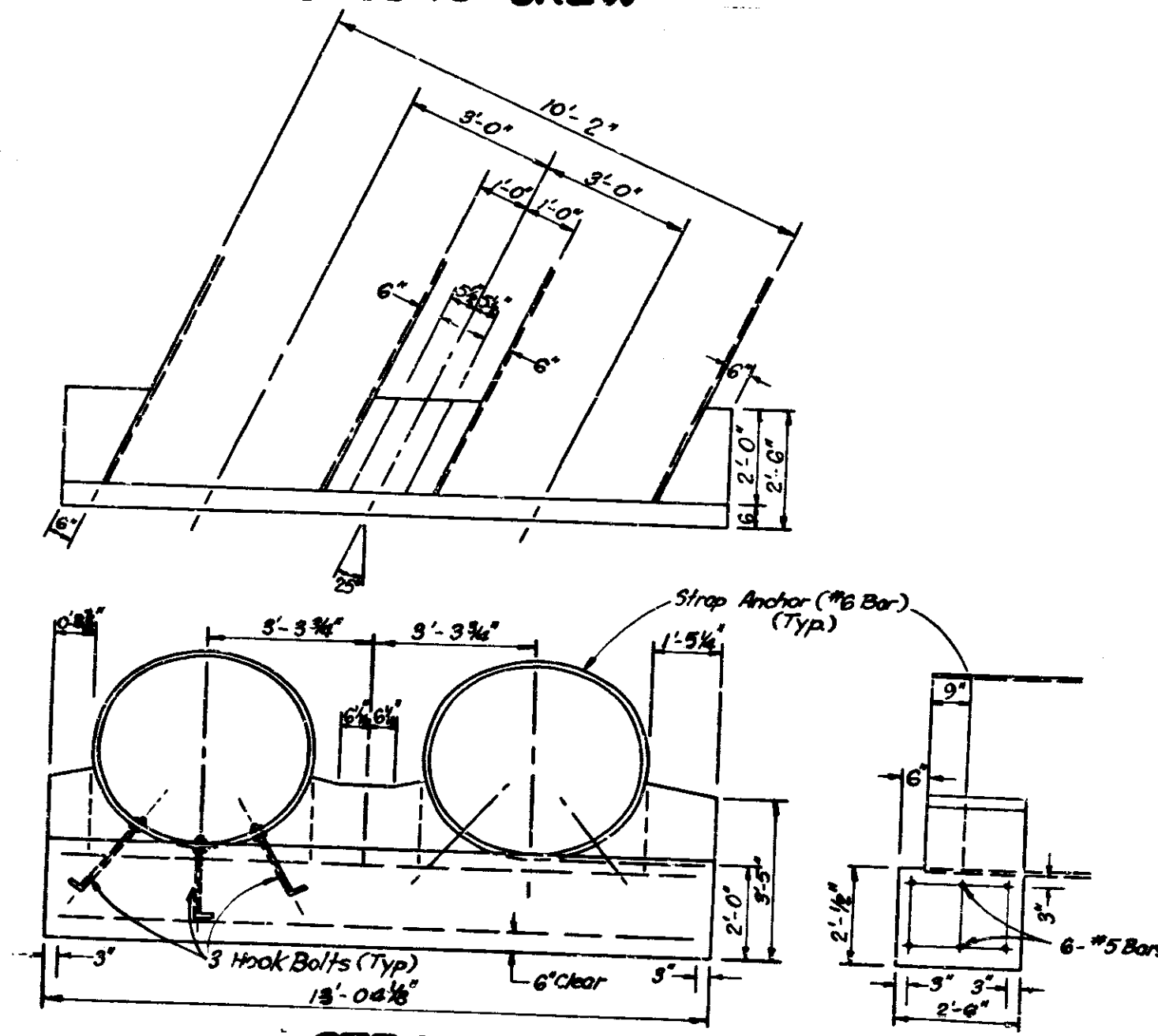
STR. NO. 20
2 @ 65 x 40 10° SKEW



STR. NO. 34
2 @ 75 x 55 10° SKEW



STR. NO. 56
2 @ 72 x 44 35° SKEW



STR. NO. 70
2 @ 48 x 25 25° SKEW

SPECIAL PIPE ANCHOR
DETAILS

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	CORROSION PROTECT FOR STR. BACKFILL	VELOCITY FT/SEC	GAGES OR THICKNESS			REMARKS	PLANS ON SHEET NO.
								UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM	PIPE END SECTION		
11	41+78RT	12		C.S.	36		1.0						16	12	2		
12	45+00RT	12	D		46		2.0						16	16	2		
13	49+75LT	15		C.S.	36		1.0						16	12	2		
14	50+65LT	15	D		52		2.7						16	16	2		
15	59+45RT	15	D		52		4.0						16	16	2		
16	73+20RT	24	D		32		4.0						16	16	2		
17	73+50LT	24	D		36		4.6						16	16	2		
18	78+65RT			OMITTED													
19	79+10	24	L		216												
20	79+20	66x40		F.B.C.C.S.	204	10°	3.8	788.90	788.69	6.73	196	5.3	14				Construct in two Parallel Lines - 66 Sys Pav't Removal
21	79+20RT			OMITTED													Remove Str. in Place
22	83+85RT	24	D		52		4.3						16	16	2		
23	83+95LT	24	D		36		4.1						16	16	2		
24	97+90RT	24	D		56		4.0						16	16	2		
25	96+00	6	L		204												22 Sys Pav't Removal
26	101+75LT	18	D		50		3.5						16	16	2		
27	104+00	10	L		204												22 Sys Pav't Removal
28	105+80RT	15	D		50		3.6						16	16	2		
29	116+27RT	18	D		60		4.0						16	16	2		
30	116+37LT	15	D		58		3.6						16	16	2		
31	121+80	6	L		204												22 Sys Pav't Removal
32	127+10	29x18		F.B.C.C.S.	76		3.0	767.59	767.59		27		16		2		
33	130+70	72	L		204												22 Sys Pav't Removal
34	146+85	19x55		S.P.S.A	204	10°	3.0	773.00	773.00	7.80	268		12 Top 10 Bottom				Construct in two Parallel Lines - 88 Sys Pav't Removal
35	168+61LT	15	D		56		2.7						16	16	2		Remove Str. in Place
36	182+90	58x36		F.B.C.C.S.	88		3.0	814.00	810.20	2.44	69	4.9	16				Remove Str. in Place - 88 Sys Pav't Removal
37	182+60	5	L		204												22 Sys Pav't Removal
37A	182+30	68x40		F.B.C.C.S.	90		3.0		2.69	81	5.1	14					
38	196+56	5	L		204												
39	209+80RT	12	D		50		3.3						16	16	2		
40	220+10			Min Area 743SH 62	156	40°	7.6	849.50	817.90	2.15	100		16				
41	201+50LT	15	D		58		3.4						16	16	2		
42	201+50RT	15	D		58		3.4						16	16	2		
43	242+25	36" A			90		4.3	823.5	823.5		59		16		2		66 Sys Pav't Removal - Remove Str. in Place
44	244+20	3	L		204												22 Sys Pav't Removal
45	247+20	6	L		204												22 Sys Pav't Removal
46	271+00	6	L		204												22 Sys Pav't Removal
47	274+75RT	24	D		62		2.7						16	16	2		
48	274+75LT	18	D		62		4.2						16	16	2		
49	294+60	42		F.B.C.C.S./R.C. Concrete	124	30°	4.7	821.20	819.65	2.90	110	8.4	16				108 Sys Pav't Removal - Remove Str. in Place
50	318+10RT	12	D		36		1.7						16	16	2		12" Hand Laid Rip Rap included in Cost of Conc. Pipe
51	318+10LT	12	D		40		2.1						16	16	2		
52	320+90			Min Area 745FH 61	94		3.6	808.81	808.20	2.15	65		16				Remove Str. in Place

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	CORROSION PROTECT FOR STR. BACKFILL	VELOCITY FT/SEC	GAGES OR THICKNESS			REMARKS	PLANS ON SHEET NO.
								UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM	PIPE END SECTION		
53	321+72RT	15	D		56		2.2						16	16	2		
54	344+90	10	L		262												
55	351+60RT	12	L		26												
56	352+2			Min Area 746SH 62	410	35°	3.1	790.50	784.50	9.37	231		12				One 30° Bend Req'd
57	361+00	30	D		88		6.0						16	16	2		Construct in two Parallel Lines - Remove Str. in Place
58	361+50LT	15	D		36		1.2						16	16	2		
59	371+22LT	36	A		74		4.0						16	12	2		
60	371+22RT	36	A		88		3.4						16		2		
61	381	6		F.B.C.C.P.S.	54												Remove Str. in Place
62	381	6		F.B.C.C.P.S.	58												
63	385+5RT	36	D		40		3.0						16	12	2		
64	388+5LT	15	D		46		3.0						16	16	2		
65	419+5LT	15	D		44		2.4						16	16	2		
66	415+RT	18	D		52		4.0						16	16	2		
67	442+RT	36	D		40		3.0						16	16	2		
68	445+1			Min Area 1023FH 62	114		6.0	786.75	786.50	2.44	102	5.4	14				66 Sys Pav't Removal - Remove Str. in Place
69	445+5	6	L		254												
70	456+7	48		F.B.C.C.S. VPI or R.C. Concrete	252	25°	4.9	786.87	786.87	6.31	122	4.8	16				Construct in two Parallel Lines
71	464+0			Min Area 1025SH 62	252	25°	4.9	786.87	786.87	6.31	122	4.8	16				66 Sys Pav't Removal - Remove Str. in Place
72	464+5	15	L		214		3.0	789.15	788.00	2.44	146	5.4	14				66 Sys Pav't Removal - Remove Str. in Place
73	468+8	12		R.C. Concrete	20												22 Sys Pav't Removal
38A	196+50LT to 203+80	2'	L		700												1 Extend Pipe in Place 20' Right

LEGEND FOR ABBREVIATIONS

F.B.C.C.S./R/I	--- FULL BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	F.B.C.C.S.A./R/I	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
F.B.C.C.A.A./R/I	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	F.B.C.C.A.A./R/I	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
F.B.C.C.S.	--- FULL BITUMINOUS COATED CORRUGATED STEEL.	F.B.C.C.S.A.	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH.
F.B.C.C.A.A.	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.	F.B.C.C.A.A.A.	--- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH WITH PAVED INVERT.
C.S.	--- CORRUGATED STEEL.	C.S.A.	--- CORRUGATED STEEL ARCH.
C.A.A.	--- CORRUGATED ALUMINUM ALLOY.	C.A.A.A.	--- CORRUGATED ALUMINUM ARCH.
S.P.S.	--- STRUCTURAL PLATE STEEL.	S.P.S.A.	--- STRUCTURAL PLATE STEEL ARCH.

ESTIMATE OF QUANTITIES

FEDERAL ROAD DISTRICT NO. 4 STATE PROJECT NO. IND 57F-09(99) YEAR 1969 SHEET 48 OF 144

GRADING			PAVEMENT			MISCELLANEOUS			SIGNS AND MARKINGS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
REMOVE STRUCTURES AND OBSTRUCTIONS	LUMP	SUM	REPAIRING	MI		GUARD RAIL, BASIC TYPE "B"	LFT	162.5	CONCRETE HEALER, TYPE "A"	LFT	
CLEARING			WATER FOR RECONDITIONING	MG	50,469	GUARD RAIL, TYPE "G"	LFT	300.5	CONCRETE HEALER, TYPE "B"	LFT	
WEEDING AND GRUBBING			PORTLAND CEMENT CONCRETE FOR PATCHING	SYS	114,075	CONCRETE PAVEMENT, REINFORCED	SYS		CONCRETE HEALER, TYPE "C"	LFT	
EDGE DIPS	EA		CONTRACTED AGGREGATE	TON		CONCRETE PAVEMENT, REINFORCED	SYS		RECONSTRUCTED CONCRETE HEALER	LFT	
SCALPING	ACR		BITUMINOUS MIXTURE FOR PATCHING	TON		CONCRETE PAVEMENT HIGH EARLY STRENGTH	SYS				
COMMON EXCAVATION	CYS	3004.5	WIDENING WITH BITUMINOUS MIXTURE	TON		CONCRETE PAVEMENT HIGH EARLY STRENGTH ()	SYS		RIGHT-OF-WAY MARKER	EA	
ROCK EXCAVATION	CYS		WIDENING WITH CEMENT CONCRETE	SYS	5521	CONCRETE PAVEMENT PLAIN	SYS		RESET RIGHT-OF-WAY MARKER	EA	
UNASSIGNED EXCAVATION	CYS	500	WIDENING WITH PORTLAND CEMENT CONCRETE BASE	SYS		CONCRETE PAVEMENT PLAIN ()	SYS		MONUMENT TYPE "A"	EA	
WATERWAY EXCAVATION	CYS		TYPE "B" COMPACTED AGGREGATE BASE (1)	TON	46,150	CONCRETE PAVEMENT PLAIN ()	SYS		MONUMENT TYPE "B"	EA	6
CLASS EXCAVATION	CYS		TYPE "C" COMPACTED AGGREGATE SURFACE	TON		CONCRETE PAVEMENT PLAIN ()	SYS		MONUMENT TYPE "C"	EA	26
"B" BORROW FOR STRUCTURE BACKFILL	CYS	2439	TYPE "D" COMPACTED AGGREGATE SHOULDER	TON		CONTRACTION JOINT, TYPE "D-1"	LFT		RE-ESTABLISHED MONUMENT (LASTING ADJUSTED TO GRADE)	EA	
BORROW	CYS	6055	PURE CALCIUM CHLORIDE	TON		EXPANSION JOINT, PREFORMED 1 INCH	LFT		CASTING ADJUSTED TO GRADE MONUMENT	EA	
LINEAR GRADING	CYS		HOT ASPHALT EMULSION (AE) BASE	TON		1 INCH PREFORMED JOINT MATERIAL	LFT		BENCH-MARK POST	EA	5
SUBGRADE TREATMENT	MG		HOT ASPHALT EMULSION (AE) BINDER	TON		1 1/2 INCH PREFORMED JOINT MATERIAL	LFT		RESET BENCH-MARK POST	EA	
PEAT EXCAVATION TO 15 FT.	CYS		HOT ASPHALT EMULSION (AE) SURFACE	TON		EXPANSION JOINT, PREFORMED WITH LOAD TRANSFER-1 INCH	LFT		RESETTING FENCE	LFT	
PEAT EXCAVATION 15 TO 25 FT.	CYS		HOT ASPHALT CONCRETE BASE	TON		REINFORCING STEEL FOR PAVEMENT	EA	45	CONCRETE SIDEWALK	SYS	
PEAT EXCAVATION 25 TO 35 FT.	CYS		HOT ASPHALT CONCRETE BINDER	TON		ANCHOR BOLTS	EA		BITUMINOUS SIDEWALK	TON	
SURCHARGE TO 4 FT.	LFT		HOT ASPHALT CONCRETE SURFACE	TON		TERMINAL JOINTS	EA		RECONSTRUCTED SIDEWALK	SYS	
SURCHARGE 4 TO 8 FT.	LFT		BITUMINOUS COATED AGGREGATE BASE	TON		CEMENT CONCRETE PAVEMENT FOR PRIVATE DRIVES	LFT		TYPE LAID SIDEWALK	SYS	
SURCHARGE 8 TO 12 FT.	LFT		BITUMINOUS COATED AGGREGATE BINDER	TON		CEMENT CONCRETE PAVEMENT FOR COMMERCIAL DRIVES	LFT		RESET CURB	LFT	
SURCHARGE 12 TO 16 FT.	LFT		BITUMINOUS COATED AGGREGATE SURFACE	TON		CEMENT CONCRETE PAVEMENT FOR COMMERCIAL DRIVES	LFT		CENTER CURB, CONCRETE TYPE "A"	LFT	
SURCHARGE 16 TO 20 FT.	LFT		COLD MIXED BITUMINOUS BASE (DENSE GRADED)	TON		CEMENT CONCRETE PAVEMENT FOR CROSSOVER	LFT		CURB, INTERFERAL TYPE "B"	LFT	
SURCHARGE 20 TO 24 FT.	LFT		COLD MIXED BITUMINOUS BASE (OPEN GRADED)	TON		PORTLAND CEMENT FOR CEMENT TREATED BASE	SBL		CURB, INTERFERAL TYPE "C"	LFT	
MACHINE OPERATION	HR		COLD MIXED BITUMINOUS BINDER	TON		WATER FOR CEMENT TREATED BASE	MG		CURB, CONCRETE	LFT	
MACHINE AVAILABILITY	LB		BITUMINOUS BASE	TON	1146	PROCESSING CEMENT TREATED BASE	CYS		CURB, BITUMINOUS	LFT	
			BITUMINOUS BINDER	TON	395	IMPORTED MATERIAL FOR CEMENT TREATED BASE	CYS		CURB AND GUTTER COMBINED	LFT	
			BITUMINOUS SURFACE	TON	395	HEATED BASE	CYS		GUTTER, STANDARD LIP	LFT	
CONCRETE PAVEMENT BREAKING	SYS		BITUMINOUS MIXTURE FOR CROSSOVERS	TON	15,863	SALVAGED ROAD MATERIAL FOR	CYS		GUTTER, CONCRETE	LFT	
REMOVAL OF PAVEMENT	SYS	15,864	BITUMINOUS MIXTURE FOR APPROACHES	TON	546				RESET CURB	LFT	
TREE REMOVAL 6 INCH	EA		DRILLED HOLES FOR UNDERSEAL	EA					CENTER CURB, CONCRETE TYPE "B"	SYS	
TREE REMOVAL 18 INCH	EA		ASPHALT MATERIAL FOR UNDERSEAL	TON					CENTER CURB, BITUMINOUS TYPE "A"	LFT	
TREE REMOVAL 30 INCH	EA		BITUMINOUS CURING MATERIAL	TON					CENTER CURB, BITUMINOUS TYPE "B"	LFT	
TREE REMOVAL 48 INCH	EA		FILLING CRACKS AND JOINTS IN CONCRETE PAVEMENT OR BASE	TON					CENTER CURB, BITUMINOUS TYPE "C"	LFT	
TREE REMOVAL 60 INCH	EA		SEALING CRACKS AND JOINTS IN BITUMINOUS PAVEMENT	TON	187				CURB, INTERFERAL TYPE "A"	LFT	
SALVAGED STOCKPILED SELECTED MATERIAL	CYS		BITUMINOUS MATERIAL FOR SEAL COAT	TON	187				CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF PRESENT STRUCTURE	EA		BITUMINOUS MATERIAL FOR PRIME COAT	TON	8				CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (6)	L.S.		BITUMINOUS MATERIAL FOR TACK COAT	TON	8				CONCRETE SIDEWALK	SYS	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (7)	L.S.		COVER AGGREGATE	TON	1532				RECONSTRUCTED SIDEWALK	SYS	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (8)	L.S.		AGGREGATES FOR SHOULDER DRAINS	TON					TYPE LAID SIDEWALK	SYS	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (9)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (10)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (11)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (12)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (13)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (14)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (15)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (16)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (17)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (18)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (19)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (20)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (21)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (22)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (23)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (24)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (25)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (26)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (27)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (28)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (29)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (30)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (31)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (32)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (33)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (34)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (35)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (36)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (37)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (38)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (39)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (40)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (41)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (42)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (43)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (44)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (45)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (46)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (47)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (48)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (49)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (50)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (51)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (52)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (53)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (54)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (55)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (56)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (57)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (58)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (59)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (60)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (61)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (62)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (63)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (64)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (65)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (66)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (67)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (68)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (69)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (70)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (71)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (72)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (73)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (74)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (75)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (76)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (77)	L.S.								CENTER CURB, CONCRETE TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (78)	L.S.								CENTER CURB, CONCRETE TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (79)	L.S.								CURB, INTERFERAL TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (80)	L.S.								CURB, INTERFERAL TYPE "B"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (81)	L.S.								CURB, INTERFERAL TYPE "C"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (82)	L.S.								CURB, BITUMINOUS	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (83)	L.S.								CURB AND GUTTER COMBINED	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (84)	L.S.								GUTTER, STANDARD LIP	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (85)	L.S.								GUTTER, CONCRETE	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (86)	L.S.								RESET CURB	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL (87)	L.S.								CENTER CURB, CONCRETE TYPE "A"	LFT	
REMOVAL OF HOUSES AND BUILDINGS FROM PARCEL											

