STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

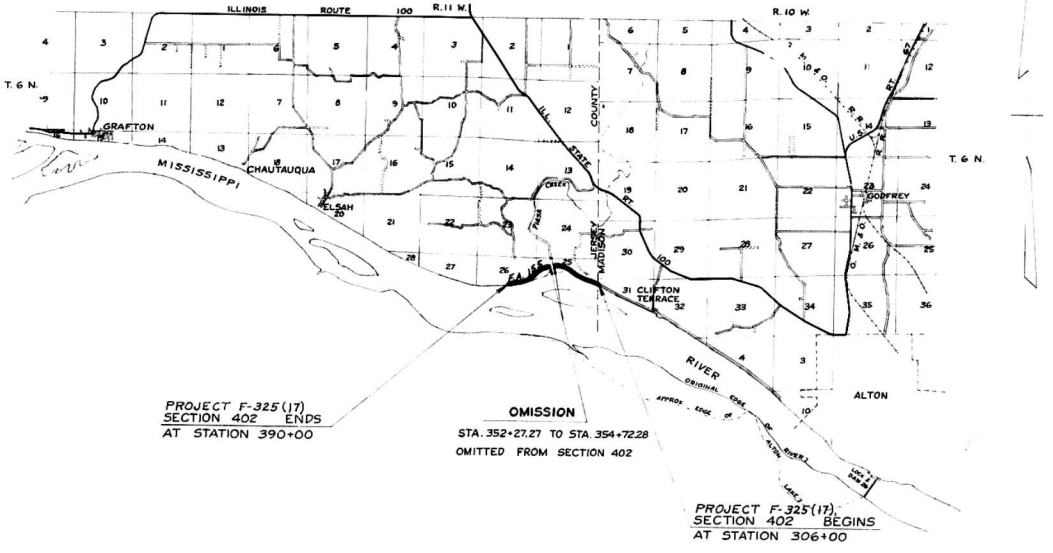
FEDERAL AID ROUTE NO	SEC	COUNTY	TOTAL SHEETS	SHEET NO
FA RT 155	402	Madison-Jersey	21	1
FED ROAD DIST NO 7	ILLINOIS	PROJECT	F-325(17)	

SCALES

PLAN	1 INCH	100 FT
PROFILE HOR	1 INCH	100 FT
PROFILE VERT	1 INCH	10 FT
CROSS SECTIONS	1 INCH	10 FT

F. A. ROUTE 155 SECTION 402 { MADISON CO. / JERSEY CO.

PROJECT F-325(17)



LOCATION OF SECTION INDICATED THUS:—

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

SUBMITTED	March 25, 57 — E. W. Riefler, DISTRICT ENGINEER
EXAMINED	April 3, 57 — [illegible], ENGINEER OF BRIDGE PLANS AND SPECIFICATIONS
PASSED	April 3, 57 — [illegible], ENGINEER OF DESIGN
APPROVED	April 3, 57 — [illegible], STATE HIGHWAY ENGINEER
APPROVED	April 3, 57 — [illegible], DIRECTOR

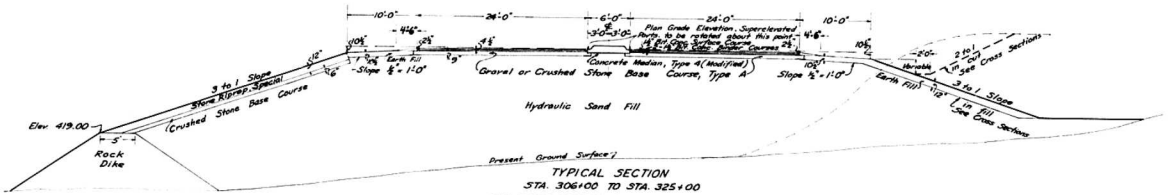
NET LENGTH OF PROJECT 8154.99 FEET = 1.545 MILES

SCALE: 1 INCH = 1 MILE

ROAD CLASSIFICATION = 250 - P - 70

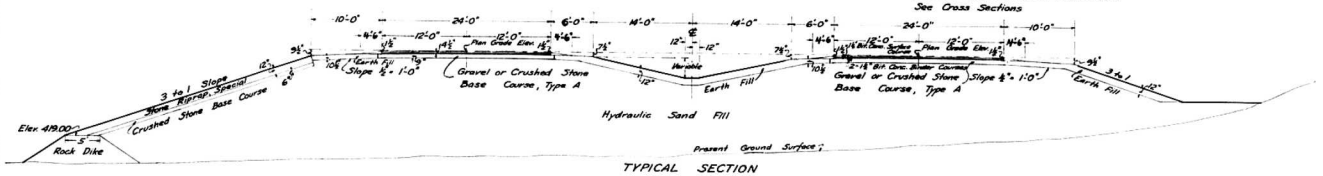
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED [redacted] DISTRICT ENGINEER — DATE [redacted]

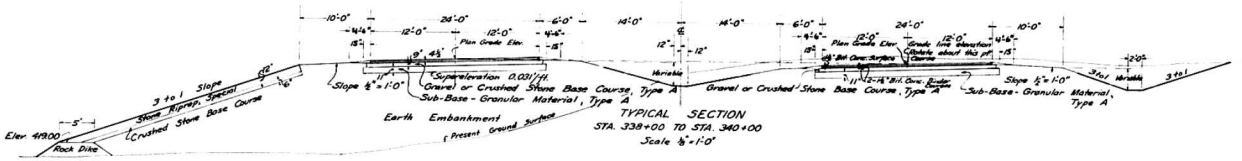


TYPICAL SECTION
STA. 306+00 TO STA. 325+00
SEE CROSS SECTIONS FOR SUPERELEVATION
Scale ⅛" = 1'-0"

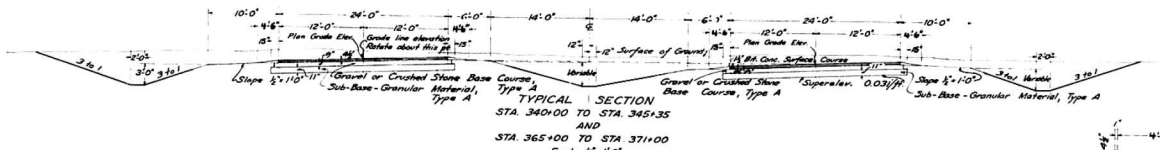
Note: For variation in typical section between Sta. 325+00 to Sta. 332+00 See Cross Sections



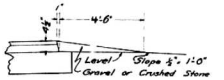
TYPICAL SECTION
STA. 332+00 TO STA. 338+00
SEE CROSS SECTIONS FOR SUPERELEVATION
Scale ⅛" = 1'-0"



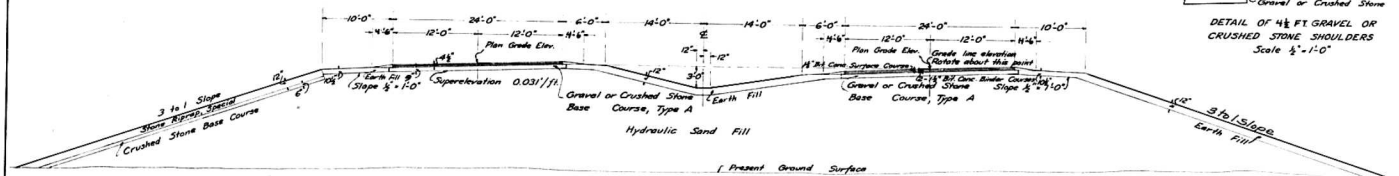
TYPICAL SECTION
STA. 338+00 TO STA. 340+00
Scale ⅛" = 1'-0"



TYPICAL SECTION
STA. 340+00 TO STA. 345+35
AND
STA. 365+00 TO STA. 371+00
Scale ⅛" = 1'-0"



DETAIL OF 4' FT. GRAVEL OR CRUSHED STONE SHOULDERS
Scale ½" = 1'-0"

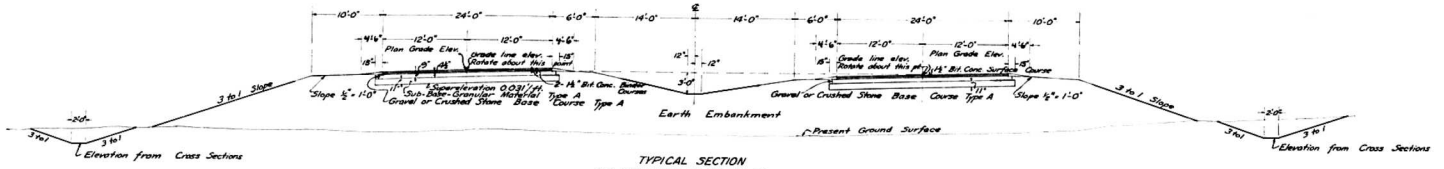


TYPICAL SECTION
STA. 345+35 TO STA. 352+27.27
Scale ⅛" = 1'-0"

INDEX TO SHEETS

SUMMARY OF QUANTITIES

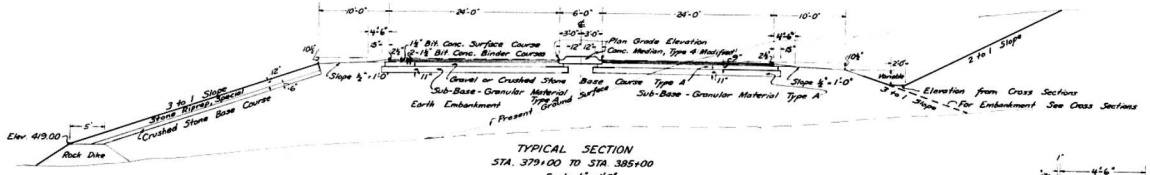
17,617	Cu. Yds.	Rock Dike	
62,338	Cu. Yds.	Earth Excavation	
249,255	Cu. Yds.	Hydraulic Sand Fill	
24,867	Sq. Yds.	Stone Riprap, Special	
34	Lin. Ft.	Pipe Culverts, Type I	24"
450	Lin. Ft.	Bituminous Coated Corrugated Metal Culvert Pipe,	24"
120	Lin. Ft.	Bituminous Coated Corrugated Metal Culvert Pipe,	36"
91	Lin. Ft.	Bituminous Coated Corrugated Metal Culvert Pipe	60"
161	Lin. Ft.	Bituminous Coated Corrugated Metal Plate Pipe Culverts	102"
363	Lin. Ft.	Storm Sewers, Type 1	12"
41	Cu. Yds.	Trench Backfill	
19.3	Cu. Yds.	Class X Concrete	
885	Lbs.	Reinforcement Bars	
13,788	Tons	Sub-Base - Granular Material, Type A	
22,875	Tons	Gravel or Crushed Stone Base Course, Type A	
250	Tons	Gravel or Crushed Stone Base Course, Type B	
7986	Tons	Bituminous Concrete Binder Course	
3630	Tons	Bituminous Concrete Surface Course, Fine Dense-graded Aggregate Type, Subclass I-11	
17,600	Gals.	Bituminous Materials (Prime Coat)	
555	Gals.	Bituminous Materials (Cover & Seal Coats)	
19	Tons	Cover Coat Aggregate	
10	Tons	Seal Coat Aggregate	
2,244	Tons	Gravel or Crushed Stone Shoulders	
3,014	Lin. Ft.	Concrete Median, Type 4 (Modified)	
1406	Lin. Ft.	Combination Concrete Curb & Gutter, Type 10	
3430	In. Dia.	Tree Removal (6" to 15" dia.)	
2690	In. Dia.	Tree Removal (Over 15" dia.)	
7.1	Acres	Temporary Seeding	
7.1	Acres	Complete Seeding	
9	Each	Inlets, Type A with Type 12 Frame	
47	Each	Furnishing & Erecting Right-of-Way Markers	
2	Each	Project Markers	
0.6	Tons	Fertilizer Nutrients	
5025	Lin. Ft.	Steel Plate Beam Guard Rail	
4	Each	Inlets	
43	Each	Guide Posts	
97	Lin. Ft.	Paved Ditch, Type 2	



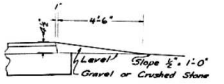
TYPICAL SECTION
STA. 354+72.28 TO STA. 361+00
Scale ⅛" = 1'-0"

Note: For variation in Typical Section between Sta. 361+00 & Sta. 365+00, See Cross Sections

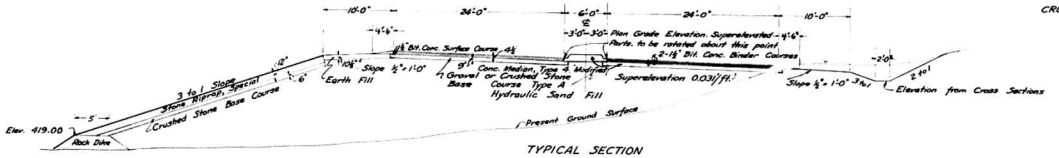
Note: For variation in Typical Section between Sta. 371+00 & Sta. 379+00, See Cross Sections



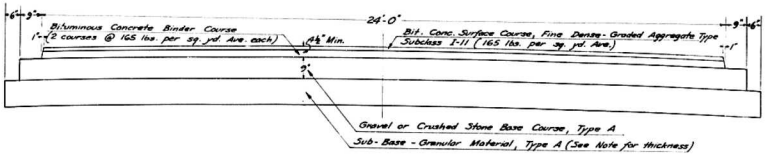
TYPICAL SECTION
STA. 379+00 TO STA. 385+00
Scale ⅛" = 1'-0"



DETAIL OF 4½ FT. GRAVEL OR CRUSHED STONE SHOULDERS
Scale ½" = 1'-0"



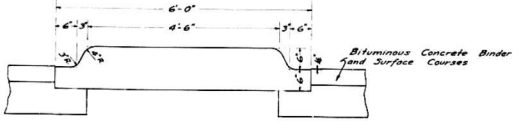
TYPICAL SECTION
STA. 388+00 TO STA. 390+00
Scale ⅛" = 1'-0"



TYPICAL SECTION SHOWING DETAIL OF PAVEMENT CONST.

Scale : ½" = 1'-0"

Note: Sub-Base - Granular Material Type A, 11" thick As follows
Sta. 337+00 to Sta. 345+35
" 354+72.28 " " 385+15
Omit Sub-Base - Granular Material between following stations
Sta. 306+00 to Sta. 337+00
" 345+35 " " 352+27.27
" 385+15 " " 390+00



TYPICAL SECTION
CONCRETE MEDIAN, TYPE 4 (MODIFIED)
Scale: ⅜" = 1'-0"

SECTION 402 BEGINS AT STA. 306+00

Bituminous Concrete Binder Course and Surface Course, Subclass I-11, 2 @ 24' wide and 4½" thick, on Gravel and Crushed Stone Base Course, 2 @ 25'-6" and 9" thick, used throughout this section as shown on typical cross-sections and pavement details.

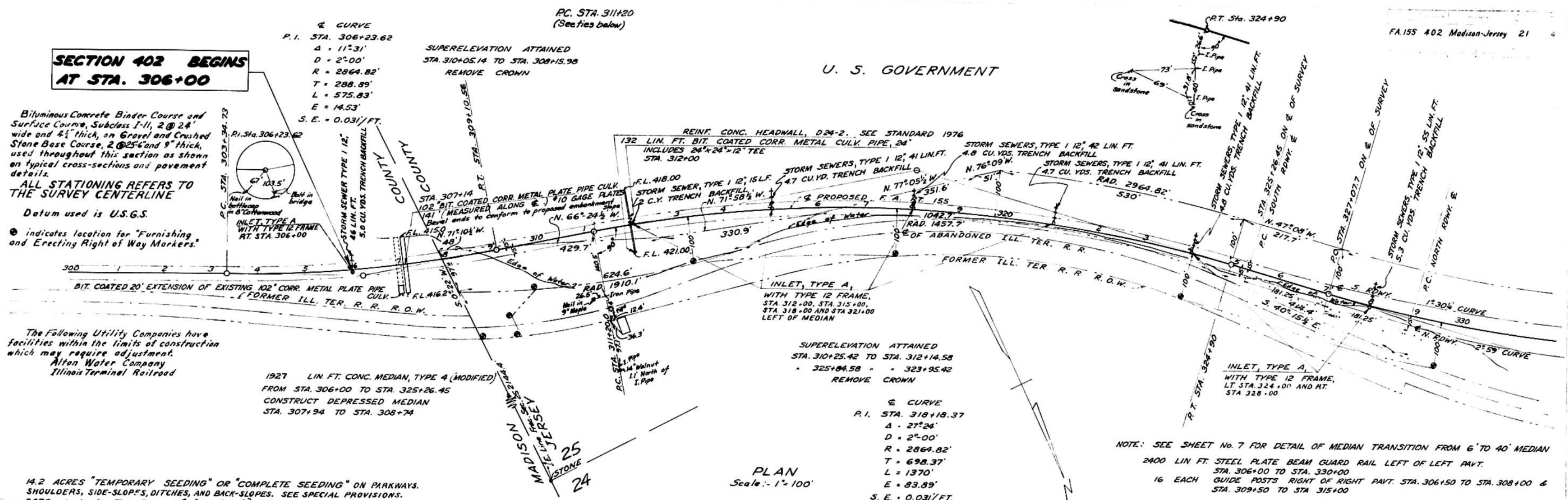
ALL STATIONING REFERS TO THE SURVEY CENTERLINE

Datum used is U.S.G.S.

● indicates location for "Furnishing and Erecting Right of Way Markers."

The Following Utility Companies have facilities within the limits of construction which may require adjustment.
Alton Water Company
Illinois Terminal Railroad

Entire section inspected and approved as to policy.
District Engineer: E.W. Riefler
Date: March 19, 1957



℄ CURVE
P.I. STA. 306+23.62
Δ = 11°-31'
D = 2°-00'
R = 2864.82'
T = 288.89'
L = 575.83'
E = 14.53'
S.E. = 0.031'/FT.
P.C. STA. 311+20 (See ties below)
SUPERELEVATION ATTAINED
STA. 310+05.14 TO STA. 308+15.98
REMOVE CROWN
U. S. GOVERNMENT
P.T. Sta. 324+90
REINF. CONC. HEADWALL, D24-2. SEE STANDARD 1976
132 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 24"
INCLUDES 24"x24"x12" TEE
STA. 312+00
STORM SEWERS, TYPE 1 12", 42 LIN. FT.
4.8 CU. YDS. TRENCH BACKFILL
STORM SEWERS, TYPE 1 12", 41 LIN. FT.
4.7 CU. YDS. TRENCH BACKFILL
STORM SEWERS, TYPE 1 12", 41 LIN. FT.
4.7 CU. YD. TRENCH BACKFILL
STORM SEWER, TYPE 1 12", 15 L.F.
2 C.Y. TRENCH BACKFILL
STORM SEWER TYPE 1 12", 46 LIN. FT. 5.0 CU. YDS. TRENCH BACKFILL
STORM SEWERS, TYPE 1 12", 41 LIN. FT. 4.8 CU. YDS. TRENCH BACKFILL
STORM SEWERS, TYPE 1 12", 55 LIN. FT. 5.3 CU. YDS. TRENCH BACKFILL
STA. 325+26.45 ON ℄ OF SURVEY SOUTH RDWY. ℄
STA. 327+07.7 ON ℄ OF SURVEY
P.C. NORTH RDWY. ℄
P.I. Sta. 306+23.62
P.C. STA. 303+34.73
COUNTY
COUNTY
STA. 307+14
102" BIT. COATED CORR. METAL PLATE PIPE CULV. #10 GAGE PLATES
141' MEASURED ALONG ℄
Bevel ends to conform to proposed embankment slope
F.L. 418.00
F.L. 415.0
F.L. 416.2
F.L. 421.00
P.T. STA. 309+10.58
INLET, TYPE A WITH TYPE 12 FRAME AT STA. 306+00
N. 66° 24½' W.
N. 71° 58½' W.
N. 77° 05½' W.
N. 76° 09' W.
N. 47° 09' W.
S. 40° 15½' E.
RAD. 2964.82'
RAD. 1910.1'
RAD. 1457.7'
℄ PROPOSED F.A. RT. 155
℄ OF ABANDONED ILL. TER. R.R.
FORMER ILL. TER. R.R. R.O.W.
Edge of Water
BIT. COATED 20' EXTENSION OF EXISTING 102" CORR. METAL PLATE PIPE CULV.
INLET, TYPE A, WITH TYPE 12 FRAME, STA. 312+00, STA. 315+00, STA. 318+00 AND STA. 321+00 LEFT OF MEDIAN
1927 LIN. FT. CONC. MEDIAN, TYPE 4 (MODIFIED) FROM STA. 306+00 TO STA. 325+26.45
CONSTRUCT DEPRESSED MEDIAN STA. 307+94 TO STA. 308+74
SUPERELEVATION ATTAINED
STA. 310+25.42 TO STA. 312+14.58
325+84.58 - 323+95.42
REMOVE CROWN
℄ CURVE
P.I. STA. 318+18.37
Δ = 27°24'
D = 2°-00'
R = 2864.82'
T = 698.37'
L = 1370'
E = 83.89'
S.E. = 0.031'/FT.
P.T. STA. 324+90
INLET, TYPE A, WITH TYPE 12 FRAME, LT. STA. 324+00 AND RT. STA. 328+00
1°30' CURVE
2°59' CURVE
S. RDWY.
N. RDWY.
MADISON
JERSEY
STONE
25
24
PLAN
Scale:- 1" = 100'

NOTE: SEE SHEET No. 7 FOR DETAIL OF MEDIAN TRANSITION FROM 6' TO 40' MEDIAN

2400 LIN. FT. STEEL PLATE BEAM GUARD RAIL LEFT OF LEFT PAVT. STA. 306+00 TO STA. 330+00

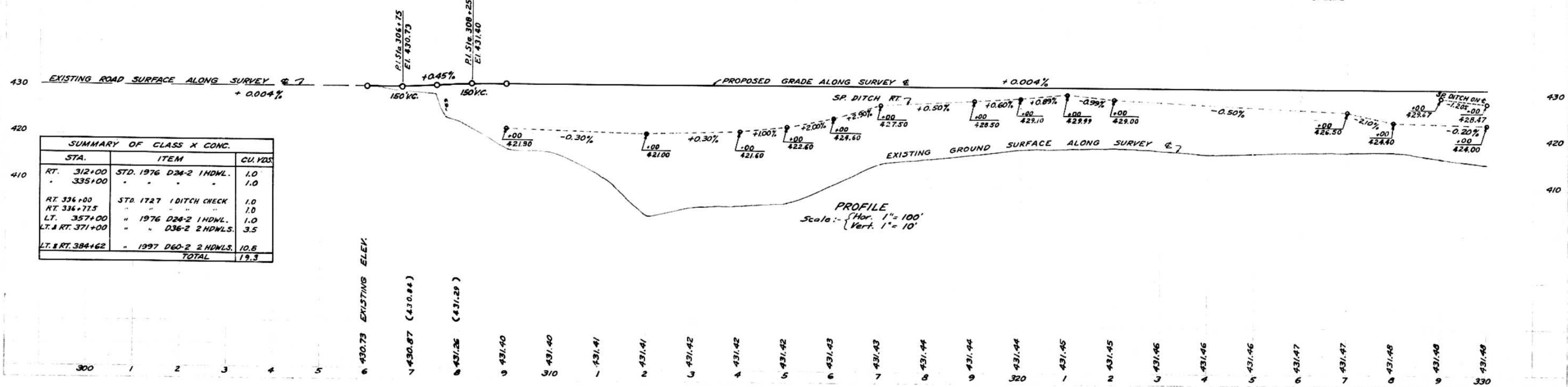
16 EACH GUIDE POSTS RIGHT OF RIGHT PAVT. STA. 306+50 TO STA. 308+00 & STA. 309+50 TO STA. 315+00

14.2 ACRES "TEMPORARY SEEDING" OR "COMPLETE SEEDING" ON PARKWAYS, SHOULDERS, SIDE-SLOPES, DITCHES, AND BACK-SLOPES. SEE SPECIAL PROVISIONS.
3430 in. dia. Tree Removal (6" to 15" dia.) Throughout this section
2690 " " " " (Over 15" ")

Construct Approach grades and Cross-overs as shown on the cross-sections. Excavation is included in the quantities shown.

HYDRAULIC SAND FILL	111,609	CU. YDS.
EARTH EXCAVATION	3498	CU. YDS.
EARTH EMBANKMENT	2564	CU. YDS.
OVERHAUL	768	CU. YD. STA.
ROCK DIKE	15,612	CU. YDS.
STONE RIPRAP, SPECIAL	8105	SQ. YDS.

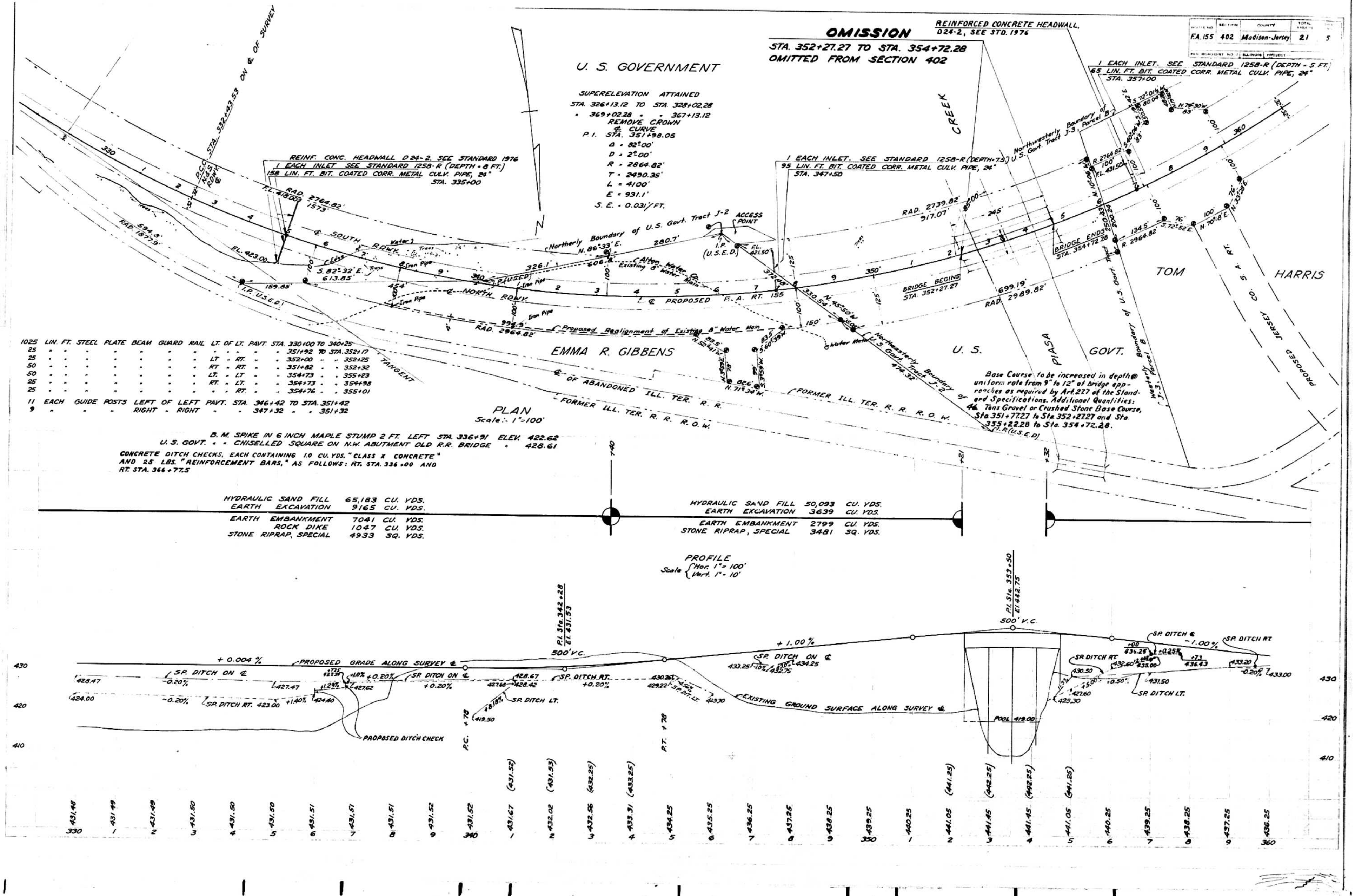
H.S.F. 9568 C.Y.
E. EXC. 374 "
E. EMB. 250 "
ROCK DIKE 263 "
STONE RIPRAP, SPECIAL 800 S.Y.

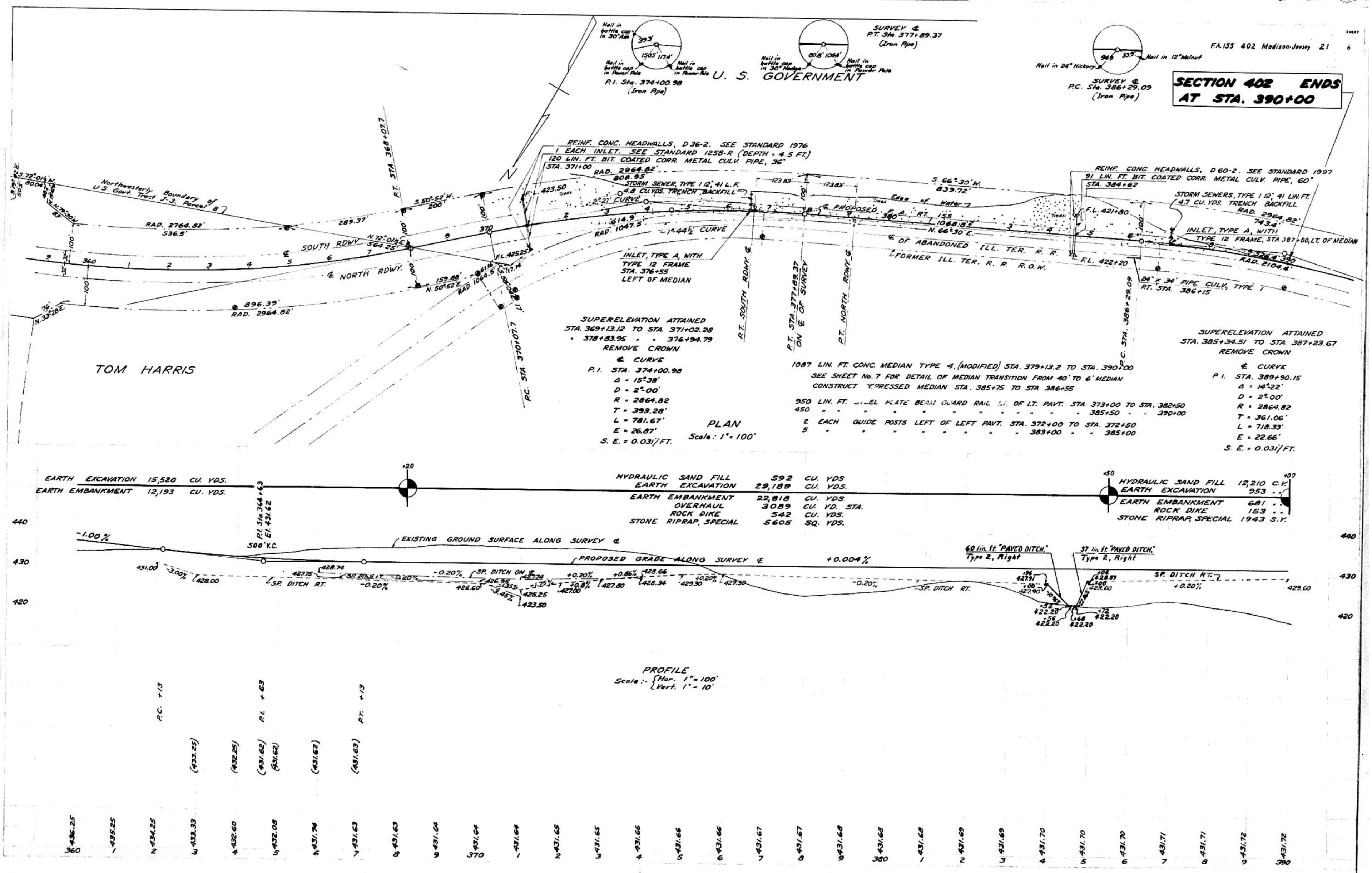


EXISTING ROAD SURFACE ALONG SURVEY ℄
+0.004%
P.I. Sta. 306+75 El. 430.73
P.I. Sta. 308+25 El. 431.40
+0.45%
150' V.C.
150' V.C.
PROPOSED GRADE ALONG SURVEY ℄
+0.004%
SP. DITCH RT.
-0.30%
+0.30%
+1.00%
+2.00%
+2.50%
+0.50%
+0.60%
+0.89%
-0.99%
-0.50%
-2.10%
-1.20%
-0.20%
421.90
421.00
421.60
422.60
424.60
427.50
428.50
429.10
429.99
429.00
426.50
424.40
429.67
428.47
424.00
EXISTING GROUND SURFACE ALONG SURVEY ℄
PROFILE
Scale:- Hor. 1" = 100' Vert. 1" = 10'
EXISTING ELEV.
430.73 430.87 (430.86) 431.26 (431.29) 431.40 431.40 431.41 431.41 431.42 431.42 431.42 431.43 431.43 431.44 431.44 431.44 431.45 431.45 431.46 431.46 431.46 431.47 431.47 431.48 431.48 431.48
300 1 2 3 4 5 6 7 8 9 310 1 2 3 4 5 6 7 8 9 320 1 2 3 4 5 6 7 8 9 330
430 420 410

SUMMARY OF CLASS X CONC.

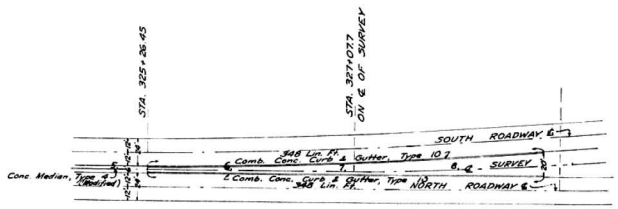
STA.	ITEM	CU. YDS.
RT. 312+00	STD. 1976 D24-2 1 HDWL.	1.0
" 335+00	" " " "	1.0
RT. 336+00	STD. 1727 1 DITCH CHECK	1.0
RT. 336+77.5	" " " "	1.0
LT. 357+00	" 1976 D24-2 1 HDWL.	1.0
LT. & RT. 371+00	" " D36-2 2 HDWLS.	3.5
LT. & RT. 384+62	" 1997 D60-2 2 HDWLS.	10.6
	TOTAL	19.3


F.A. 155 | 402 | Madison-Jersey | 21 | 5
OMISSION
STA. 352+27.27 TO STA. 354+72.28 OMITTED FROM SECTION 402
REINFORCED CONCRETE HEADWALL, D24-2, SEE STD. 1976
1 EACH INLET. SEE STANDARD 1258-R (DEPTH = 5 FT.)
65 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 24"
STA. 357+00
U. S. GOVERNMENT
SUPERELEVATION ATTAINED
STA. 326+13.12 TO STA. 328+02.28
" 369+02.28 " " 367+13.12
REMOVE CROWN
℄ CURVE
P.I. STA. 351+98.05
Δ = 82°00'
D = 2°00'
R = 2864.82'
T = 2490.35'
L = 4100'
E = 931.1'
S.E. = 0.031'/FT.
P.C.C. STA. 332+43.53 ON ℄ OF SURVEY
REINF. CONC. HEADWALL D 24-2. SEE STANDARD 1976
1 EACH INLET SEE STANDARD 1258-R (DEPTH = 8 FT.)
158 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 24"
STA. 335+00
1 EACH INLET. SEE STANDARD 1258-R (DEPTH = 7.5')
95 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 24"
STA. 347+50
CREEK
PIASA
Northwesterly Boundary of U.S. Govt. Tract J-3, Parcel B
Northerly Boundary of U.S. Govt. Tract J-2
ACCESS POINT
Alton Water Co. Existing 8" Water Main
Proposed Realignment of Existing 8" Water Main
℄ SOUTH RDWY.
℄ NORTH RDWY.
℄ PROPOSED F.A. RT. 155
BRIDGE BEGINS STA. 352+27.27
BRIDGE ENDS STA. 354+72.28
TOM HARRIS
EMMA R. GIBBENS
U. S. GOVT.
PROPOSED JERSEY CO. S.A. RT.
℄ OF ABANDONED ILL. TER. R.R.
FORMER ILL. TER. R.R. R.O.W.
TANGENT
1025 LIN. FT. STEEL PLATE BEAM GUARD RAIL LT. OF LT. PAVT. STA. 330+00 TO 340+25
25 " " " " " " " " " 351+92 TO STA. 352+17
25 " " " " " " LT " RT. " 352+00 " " 352+25
50 " " " " " " RT " RT. " 351+82 " " 352+32
50 " " " " " " LT. " LT " 354+73 " " 355+23
25 " " " " " " RT. " LT. " 354+73 " " 354+98
25 " " " " " " " " RT. " 354+76 " " 355+01
11 EACH GUIDE POSTS LEFT OF LEFT PAVT. STA. 346+42 TO STA. 351+42
9 " " " RIGHT " RIGHT " " 347+32 " " 351+32
Base Course to be increased in depth @ uniform rate from 9" to 12" at bridge approaches as required by Art. 227 of the Standard Specifications. Additional Quantities: 46 Tons Gravel or Crushed Stone Base Course, Sta. 351+77.27 to Sta. 352+27.27 and Sta. 355+22.28 to Sta. 354+72.28.
PLAN
Scale: 1" = 100'
B. M. SPIKE IN 6 INCH MAPLE STUMP 2 FT. LEFT STA. 336+91 ELEV. 422.62
U. S. GOVT. " " CHISELLED SQUARE ON N.W. ABUTMENT OLD R.R. BRIDGE " 428.61
CONCRETE DITCH CHECKS, EACH CONTAINING 1.0 CU. YDS. "CLASS X CONCRETE" AND 25 LBS. "REINFORCEMENT BARS," AS FOLLOWS: RT. STA. 336+00 AND RT. STA. 366+77.5
HYDRAULIC SAND FILL 65,183 CU. YDS.
EARTH EXCAVATION 9165 CU. YDS.
EARTH EMBANKMENT 7041 CU. YDS.
ROCK DIKE 1047 CU. YDS.
STONE RIPRAP, SPECIAL 4933 SQ. YDS.
HYDRAULIC SAND FILL 50,093 CU. YDS.
EARTH EXCAVATION 3639 CU. YDS.
EARTH EMBANKMENT 2799 CU. YDS.
STONE RIPRAP, SPECIAL 3481 SQ. YDS.
PROFILE
Scale Hor. 1" = 100' Vert. 1" = 10'
P.I. Sta. 342+28 El. 431.53
500' V.C.
P.I. Sta. 353+50 El. 442.75
+ 0.004 %
+ 1.00 %
- 1.00 %
PROPOSED GRADE ALONG SURVEY ℄
EXISTING GROUND SURFACE ALONG SURVEY ℄
SP. DITCH ON ℄
SP. DITCH RT.
SP. DITCH LT.
PROPOSED DITCH CHECK
POOL 419.00
P.C. +78
P.T. +78
330 1 2 3 4 5 6 7 8 9 340 1 2 3 4 5 6 7 8 9 350 1 2 3 4 5 6 7 8 9 360

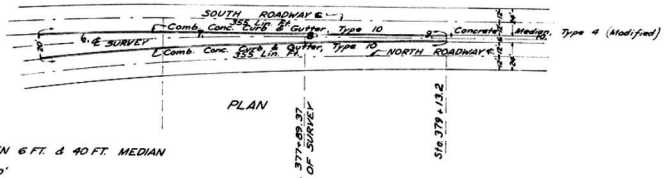


F.A. 155 402 Madison-Jersey 21 6
SECTION 402 ENDS AT STA. 390+00
U. S. GOVERNMENT
TOM HARRIS
Nail in bottle cap in 30" Ash
Nail in bottle cap in Power Pole
P.I. Sta. 374+00.98 (Iron Pipe)
SURVEY ℄ P.T. Sta. 377+89.37 (Iron Pipe)
Nail in bottle cap in 30" Hedge
Nail in bottle cap in Power Pole
Nail in 24" Hickory
Nail in 12" Walnut
SURVEY ℄ P.C. Sta. 386+29.09 (Iron Pipe)
REINF. CONC. HEADWALLS, D 36-2. SEE STANDARD 1976
1 EACH INLET. SEE STANDARD 1258-R (DEPTH = 4.5 FT.)
120 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 36"
STA. 371+00
STORM SEWER, TYPE 1 12", 41 L.F.
4.8 CU.YDS. TRENCH BACKFILL
REINF. CONC. HEADWALLS, D 60-2. SEE STANDARD 1997
91 LIN. FT. BIT. COATED CORR. METAL CULV. PIPE, 60"
STA. 384+62
STORM SEWERS, TYPE 1 12", 41 LIN. FT.
4.7 CU. YDS. TRENCH BACKFILL
INLET, TYPE A, WITH TYPE 12 FRAME, STA. 387+00, LT. OF MEDIAN
INLET, TYPE A, WITH TYPE 12 FRAME STA. 376+55 LEFT OF MEDIAN
24" x 34" PIPE CULV., TYPE 1 RT. STA. 386+15
Northwesterly Boundary of U.S. Govt. Tract J-3, Parcel 8
℄ SOUTH RDWY
℄ NORTH RDWY.
℄ PROPOSED F. A. RT. 155
℄ OF ABANDONED ILL. TER. R. R.
℄ FORMER ILL. TER. R. R. R.O.W.
Edge of Water
S. 66°-30' W. 839.72'
N. 66°30' E. 1068.82'
N. 72°-01½' E. 564.25'
S. 50°-52' W. 200'
N. 50°52' E. 159.88'
N. 33°28' E.
RAD. 2964.82' 808.95
RAD. 2764.82' 536.5'
RAD. 2964.82' 896.39'
RAD. 1047.5' 614.9
RAD. 1064.5
RAD. 2964.82' 743.4'
RAD. 2104.4' 326.4'
2°21' CURVE
1°44½' CURVE
F.L. 423.50
F.L. 425.25
F.L. 421.80
F.L. 422.20
P.T. STA. 368+07.7
P.C. STA. 370+07.7
P.T. SOUTH RDWY ℄
P.T. STA. 377+89.37 ON ℄ OF SURVEY
P.T. NORTH RDWY ℄
P.C. STA. 386+29.09
SUPERELEVATION ATTAINED
STA. 369+13.12 TO STA. 371+02.28
" 378+83.95 " " 376+94.79
REMOVE CROWN
℄ CURVE
P.I. STA. 374+00.98
Δ = 15°38'
D = 2°-00'
R = 2864.82
T = 393.28'
L = 781.67'
E = 26.87'
S. E. = 0.031'/FT.
PLAN
Scale: 1" = 100'
1087 LIN. FT. CONC. MEDIAN TYPE 4 (MODIFIED) STA. 379+13.2 TO STA. 390+00
SEE SHEET No. 7 FOR DETAIL OF MEDIAN TRANSITION FROM 40' TO 6' MEDIAN
CONSTRUCT DEPRESSED MEDIAN STA. 385+75 TO STA 386+55
950 LIN. FT. STEEL PLATE BEAM GUARD RAIL LT. OF LT. PAVT. STA. 373+00 TO STA. 382+50
450 " " " " " " " " " 385+50 " " 390+00
2 EACH GUIDE POSTS LEFT OF LEFT PAVT. STA. 372+00 TO STA. 372+50
5 " " " " " " 383+00 " " 385+00
SUPERELEVATION ATTAINED
STA. 385+34.51 TO STA. 387+23.67
REMOVE CROWN
℄ CURVE
P.I. STA. 389+90.15
Δ = 14°22'
D = 2°00'
R = 2864.82
T = 361.06'
L = 718.33'
E = 22.66'
S. E. = 0.031'/FT.
EARTH EXCAVATION 15,520 CU. YDS.
EARTH EMBANKMENT 12,193 CU. YDS.
HYDRAULIC SAND FILL 592 CU. YDS.
EARTH EXCAVATION 29,189 CU. YDS.
EARTH EMBANKMENT 22,818 CU. YDS.
OVERHAUL 3089 CU. YD. STA.
ROCK DIKE 542 CU. YDS.
STONE RIPRAP, SPECIAL 5605 SQ. YDS.
HYDRAULIC SAND FILL 12,210 C.Y.
EARTH EXCAVATION 953 "
EARTH EMBANKMENT 681 "
ROCK DIKE 153 "
STONE RIPRAP, SPECIAL 1943 S.Y.
P.I. Sta 364+63 El. 431.62
500' V.C.
-1.00%
EXISTING GROUND SURFACE ALONG SURVEY ℄
PROPOSED GRADE ALONG SURVEY ℄
+0.004%
SP. DITCH RT.
SP. DITCH LT.
SP. DITCH ON ℄
60 lin. ft. "PAVED DITCH," Type 2, Right
37 lin. ft. "PAVED DITCH," Type 2, Right
PROFILE
Scale :- {Hor. 1" = 100' / Vert. 1" = 10'
P.C. +13
P.I. +63
P.T. +13
(433.25) (432.25) (431.62) (431.62) (431.62) (431.63)
436.25 435.25 434.25 433.33 432.60 432.08 431.74 431.63 431.63 431.64 431.64 431.64 431.65 431.65 431.66 431.66 431.66 431.67 431.67 431.68 431.68 431.68 431.69 431.69 431.70 431.70 431.70 431.71 431.71 431.72 431.72
360 1 2 3 4 5 6 7 8 9 370 1 2 3 4 5 6 7 8 9 380 1 2 3 4 5 6 7 8 9 390
440 430 420

ROUTE NO.	SECTION	COUNTY	
FA 155	402	Madison-Jersey	21 7
F.A. ROAD DIST. NO. 7	ILLINOIS	PROJECT	



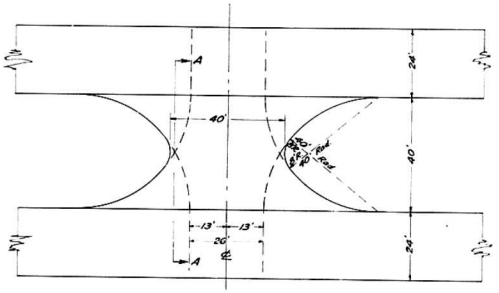
PLAN



PLAN

DETAILS SHOWING TRANSITIONS BETWEEN 6 FT. & 40 FT. MEDIAN

Scale:- 1" = 50'

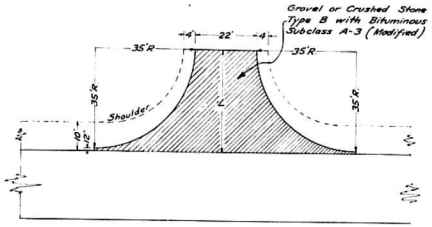


PLAN

Scale: 1" = 20'

TABULATION FOR APPROACH GRADE RETURNS AT SIDE ROADS

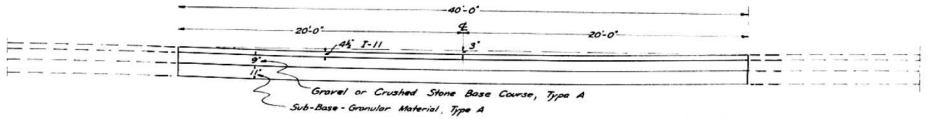
Station	L	Base Thickness	Base Course Type B	Prime	Bit. Mat. Comb. & Seal	Cover Coat Aggregate	Seal Coat Agg.
RH 308+34	36'	6"	50 Tons	63 Gal.	111 Gal.	3.8 Tons	1.9
RH 346+51	36'	6"	50 Tons	63 Gal.	111 Gal.	3.8 Tons	1.9 Tons
RH 358+36	36'	6"	50 Tons	63 Gal.	111 Gal.	3.8 Tons	1.9 Tons
LH 358+36	36'	6"	50 Tons	63 Gal.	111 Gal.	3.8 Tons	1.9 Tons
RH 386+15	36'	6"	50 Tons	63 Gal.	111 Gal.	3.8 Tons	1.9 Tons
Totals			250 Tons	315 Gal.	555 Gal.	19.0 Tons	9.5 Tons



PLAN

APPROACH GRADE RETURN FOR SIDE ROADS

Scale:- 1" = 20'



TYPICAL SECTION A-A

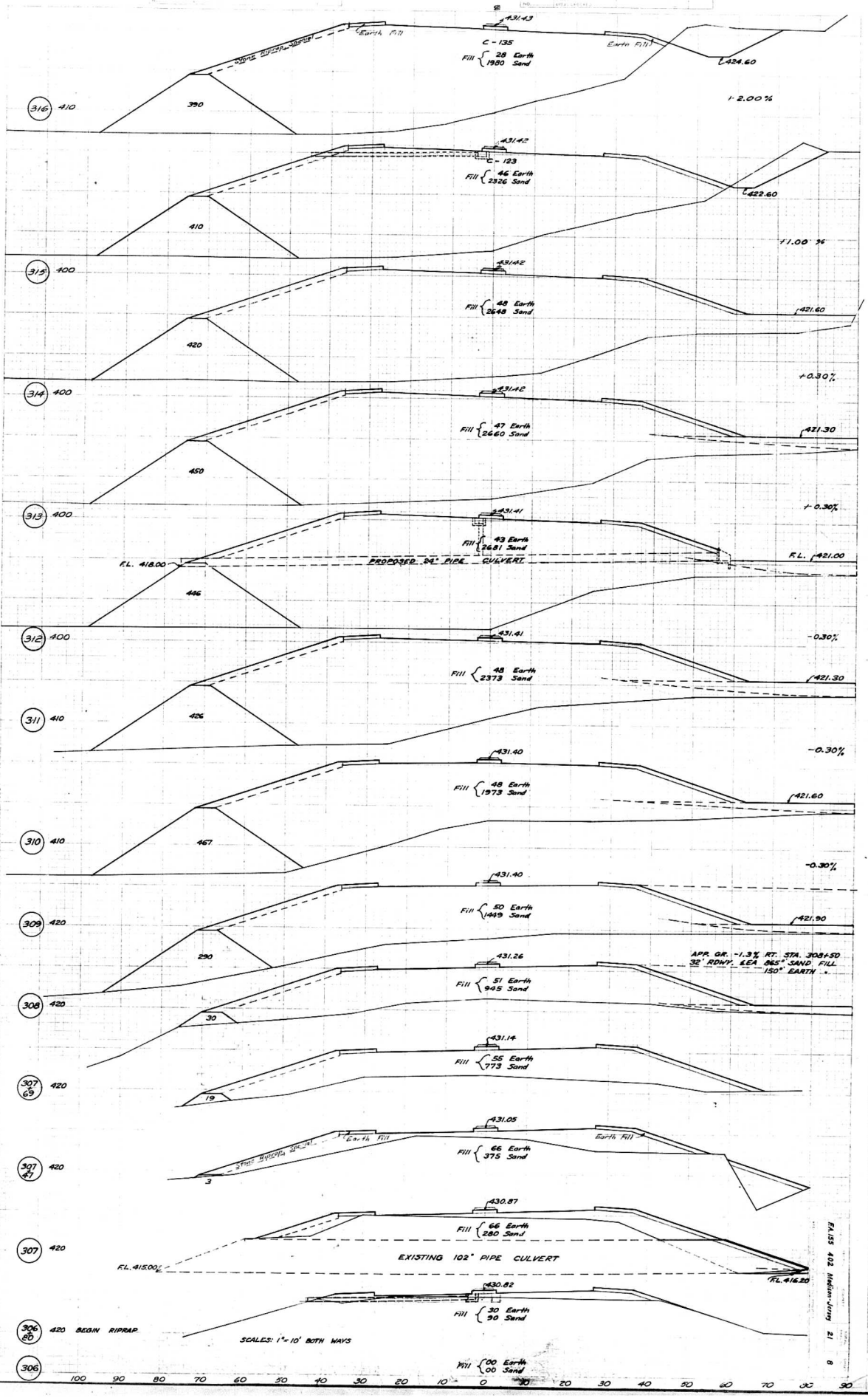
Scale: ½" = 1'-0"

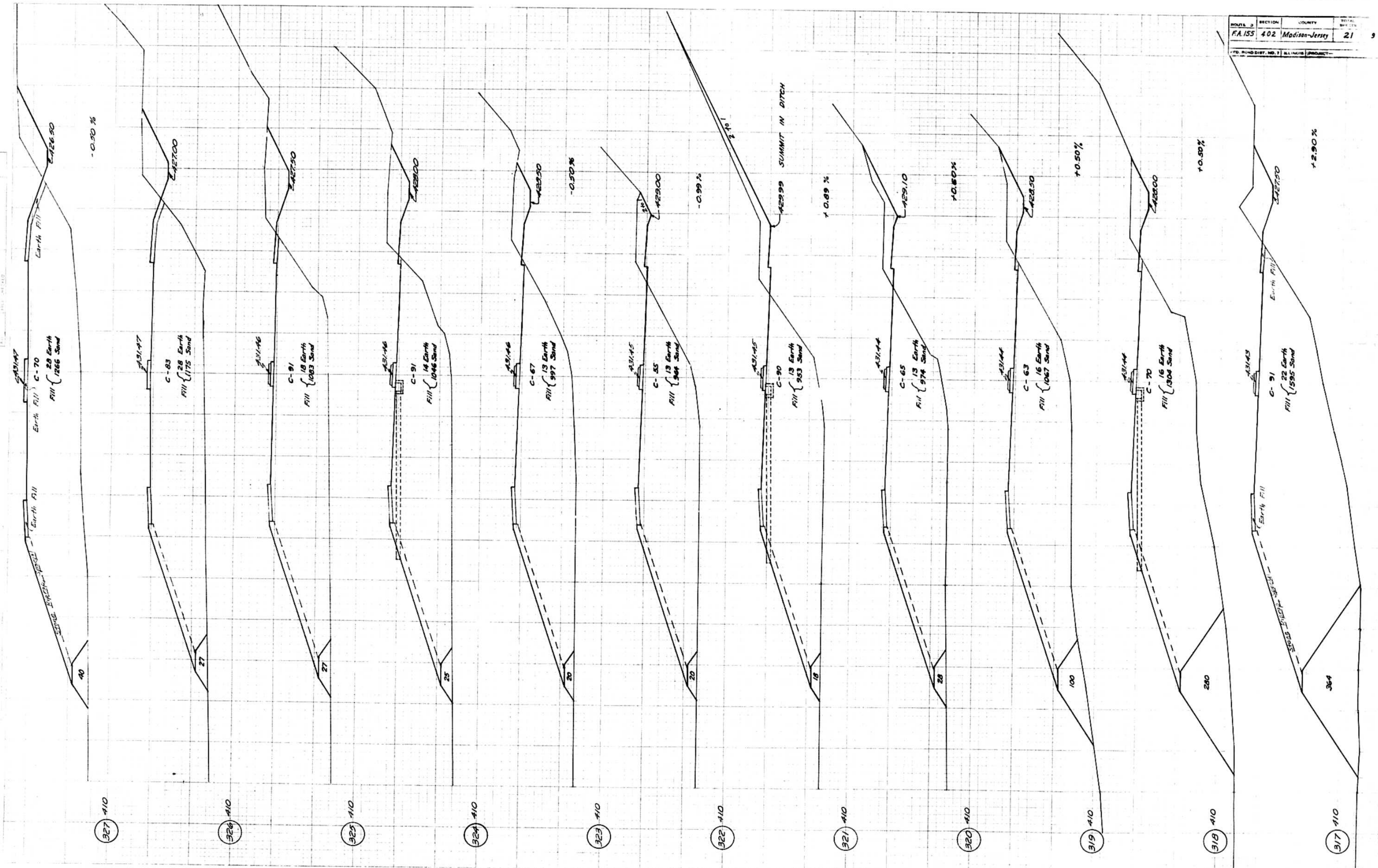
Note: Omit Sub-Base - Granular Material, Type A, where no sub-base is required under adjacent main line pavement.

DETAILS OF CROSS OVER FOR SIDE ROADS

TABULATION FOR CROSS OVERS AT SIDE ROADS

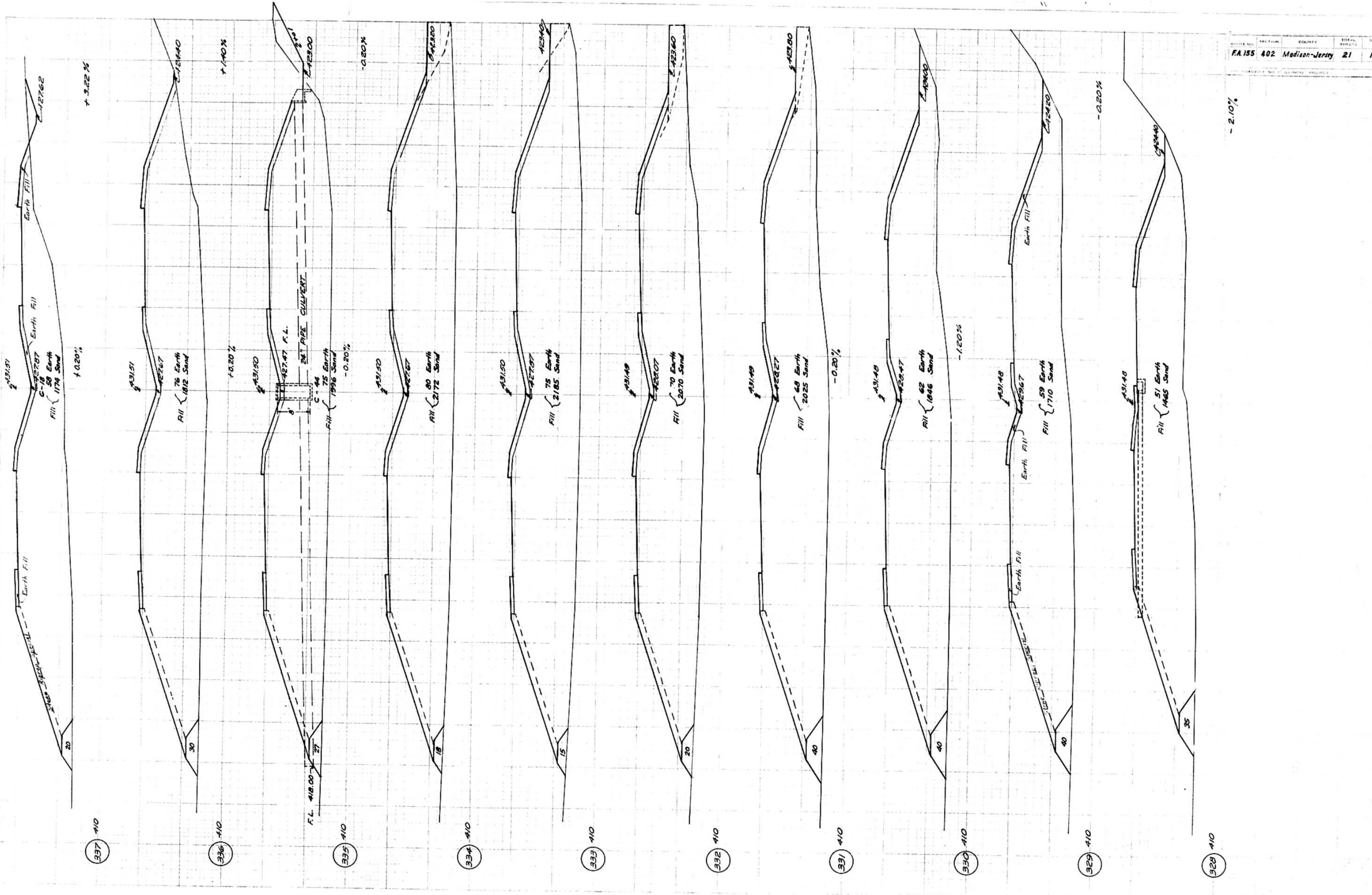
Station	Base Course Type A	Sub-Base-Gran. Material, Type A	Prime	Binder Course	Surface Course
346+51	124 Tons		94 Gal.	46 Tons	21 Tons
358+36	124 Tons	151 Tons	94 Gal.	46 Tons	21 Tons
Totals	248 Tons	151 Tons	188 Gal.	92 Tons	42 Tons

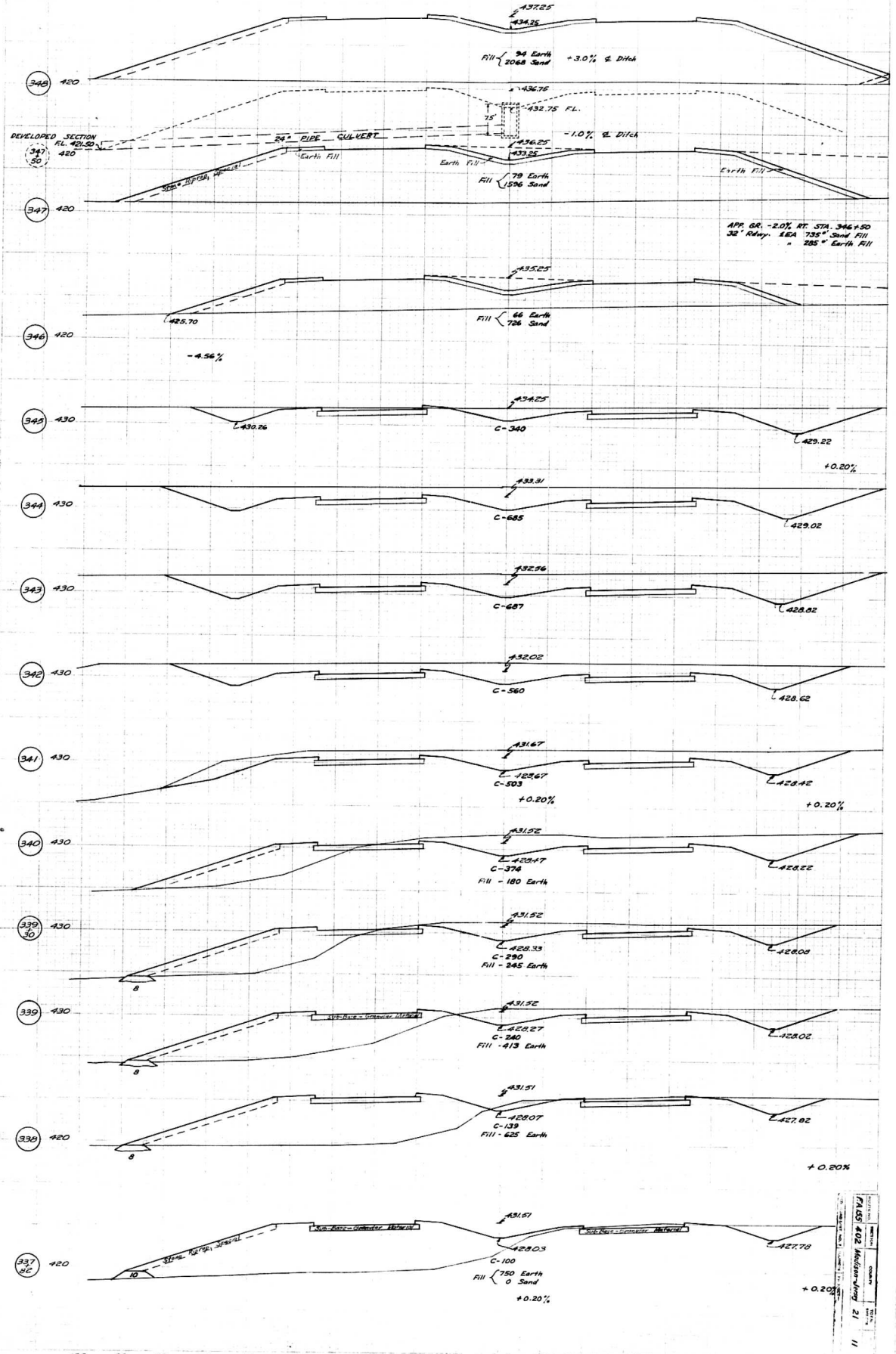

316 410
390
Stone Riprap Special
Earth Fill
C - 135
Fill { 28 Earth 1980 Sand
Earth Fill
431.43
424.60
+2.00%
315 400
420
431.42
C - 123
Fill { 46 Earth 2326 Sand
422.60
+1.00%
314 400
450
431.42
Fill { 48 Earth 2648 Sand
421.60
+0.30%
313 400
446
431.42
Fill { 47 Earth 2660 Sand
421.30
+0.30%
F.L. 418.00
PROPOSED 84" PIPE CULVERT
431.41
Fill { 43 Earth 2681 Sand
F.L. 421.00
312 400
426
431.41
Fill { 48 Earth 2373 Sand
421.30
-0.30%
311 410
467
431.40
Fill { 48 Earth 1973 Sand
421.60
-0.30%
310 410
290
431.40
Fill { 50 Earth 1449 Sand
421.90
309 420
30
431.26
Fill { 51 Earth 945 Sand
APP. GR. -1.3% RT. STA. 308+50
32' RDWY. &EA 865° SAND FILL
150° EARTH "
308 420
19
431.14
Fill { 55 Earth 773 Sand
307 69 420
3
Stone Riprap Special
Earth Fill
431.05
Fill { 66 Earth 375 Sand
Earth Fill
307 47 420
430.87
Fill { 66 Earth 280 Sand
307 420
F.L. 415.00
EXISTING 102" PIPE CULVERT
F.L. 416.20
430.82
Fill { 30 Earth 90 Sand
306 80 420 BEGIN RIPRAP
SCALES: 1"=10' BOTH WAYS
306
Fill { 00 Earth 00 Sand
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90
F.A.155 402 Madison-Jersey 21 8

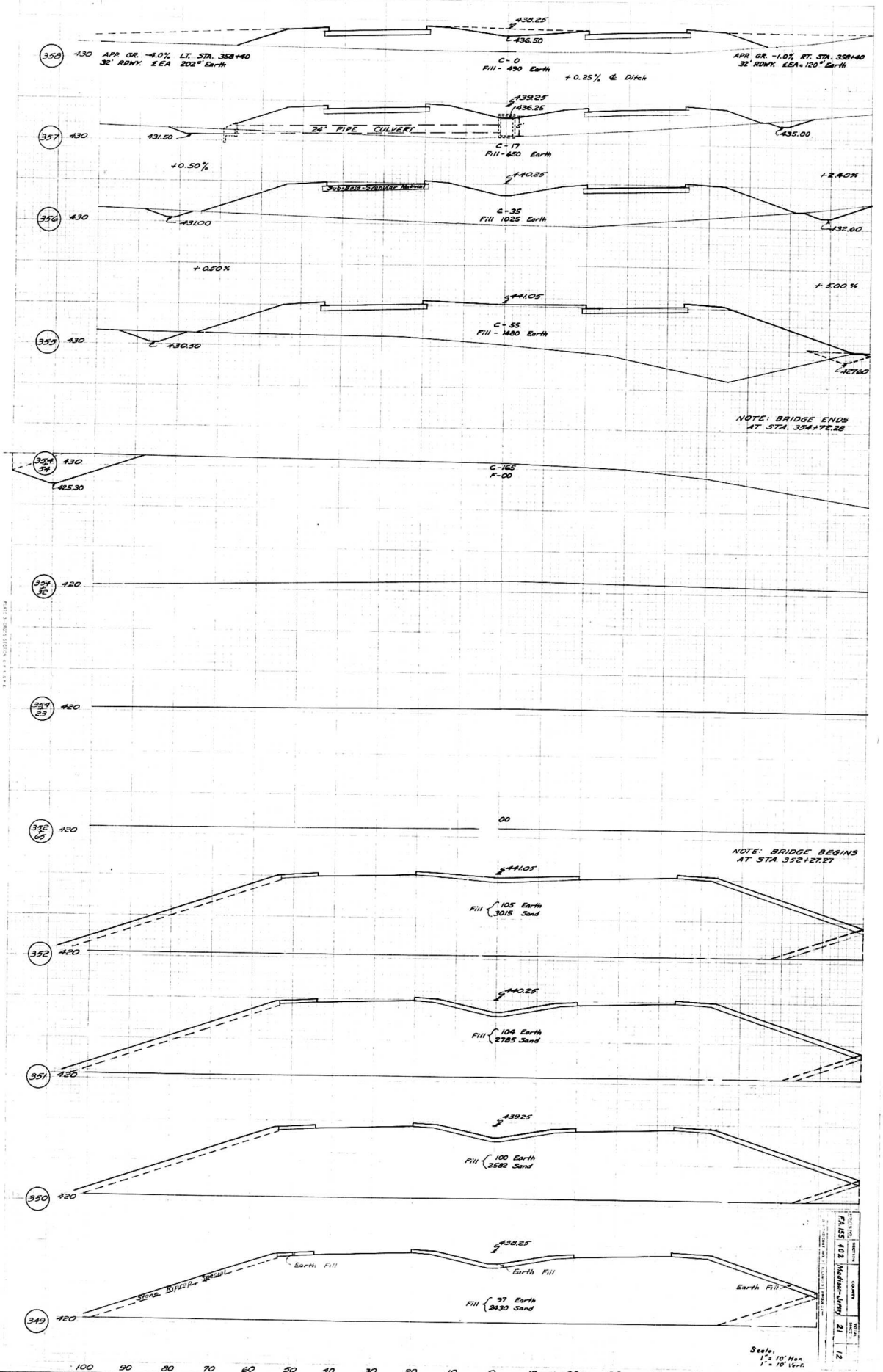


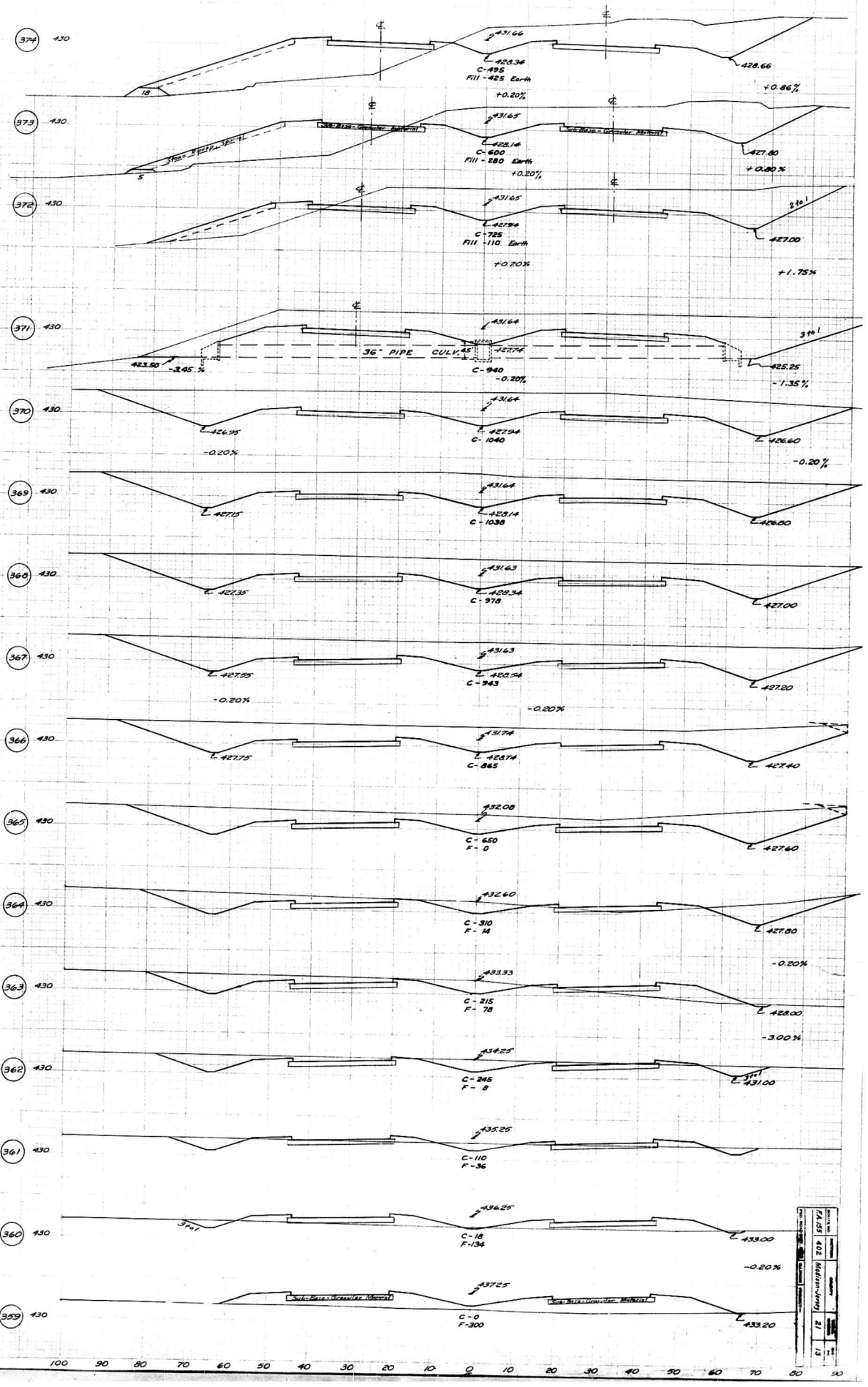
ROUTE 3 | SECTION | COUNTY | TOTAL SHEETS
F.A. 155 | 402 | Madison-Jersey | 21 | 9
FED. ROAD DIST. NO. 7 | ILLINOIS | PROJECT—
327 410
-0.50 %
426.50
431.47
C-70
Fill { 28 Earth 1266 Sand
Earth Fill
40
326 410
427.00
431.47
C-83
Fill { 28 Earth 1175 Sand
27
325 410
427.50
431.46
C-91
Fill { 18 Earth 1083 Sand
27
324 410
428.00
431.46
C-91
Fill { 14 Earth 1046 Sand
25
323 410
428.50
-0.50 %
431.46
C-67
Fill { 13 Earth 997 Sand
20
322 410
429.00
-0.99 %
431.45
C-55
Fill { 13 Earth 964 Sand
20
SUMMIT IN DITCH
429.99
+0.89 %
431.45
C-90
Fill { 13 Earth 953 Sand
18
321 410
429.10
+0.60 %
431.44
C-65
Fill { 13 Earth 974 Sand
28
320 410
428.50
+0.50 %
431.44
C-63
Fill { 16 Earth 1067 Sand
100
319 410
428.00
+0.50 %
431.44
C-70
Fill { 16 Earth 1304 Sand
280
318 410
427.50
+2.90 %
431.43
C-91
Fill { 22 Earth 1595 Sand
Earth Fill
364
317 410

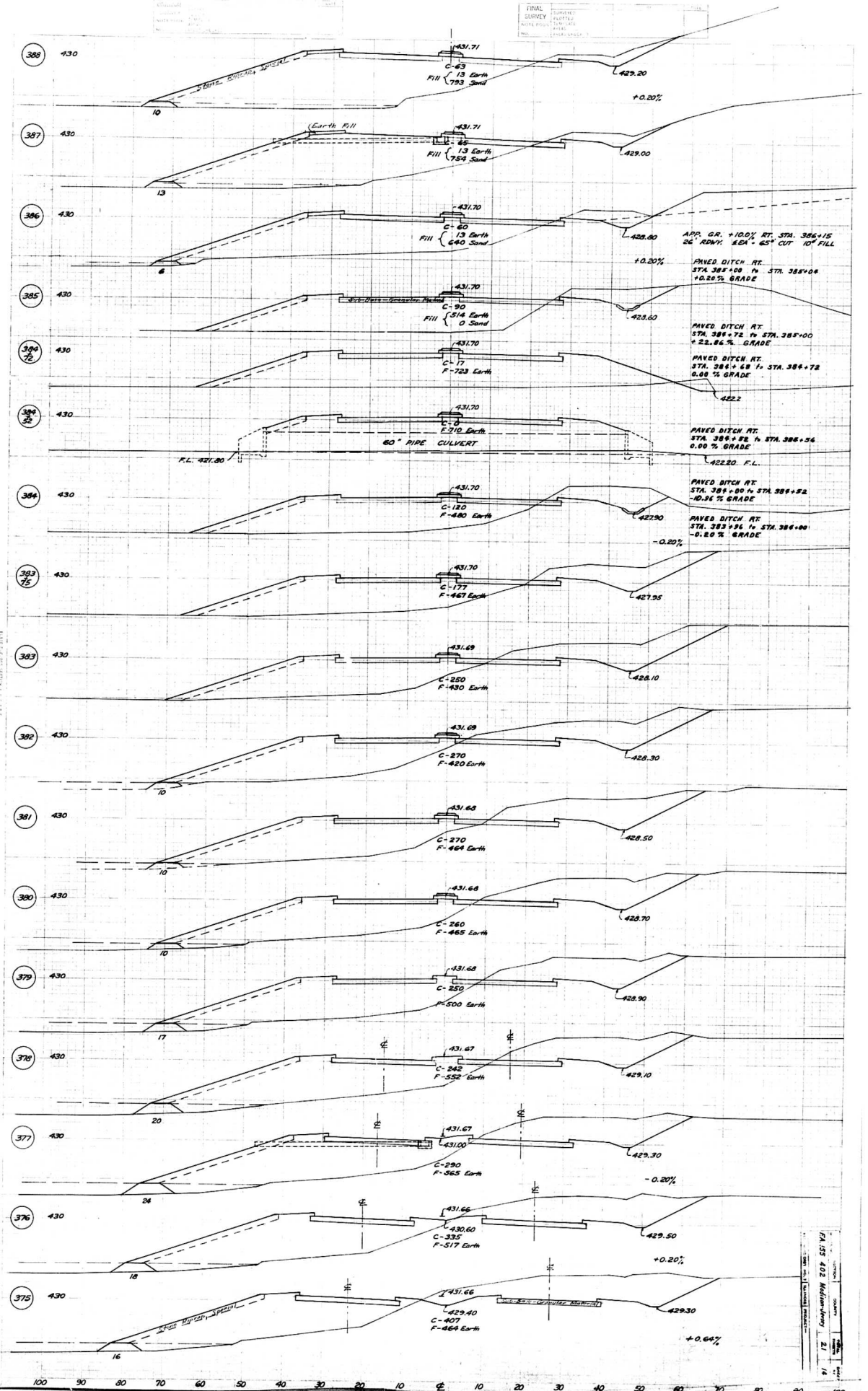
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 155	402	Madison-Jersey	21	10

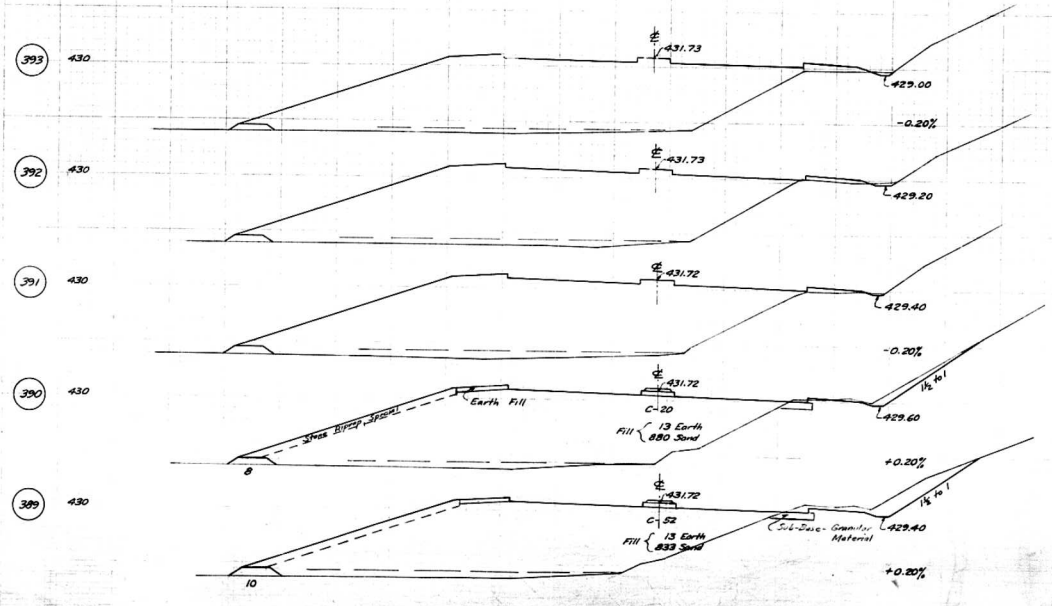



437.25
434.25
Fill { 94 Earth 2068 Sand
+3.0% ℄ Ditch
348 420
± 436.76
75'
432.75 FL.
-1.0% ℄ Ditch
436.25
433.25
DEVELOPED SECTION
FL. 421.50
347 50
420
24" PIPE CULVERT
Earth Fill
Earth Fill
Earth Fill
Fill { 78 Earth 1596 Sand
347 420
APP. GR. -2.0% RT. STA. 346+50
32' Rdwy. 1EA 735' Sand Fill
" 285' Earth Fill
435.25
425.70
Fill { 66 Earth 726 Sand
346 420
-4.56%
434.25
430.26
C-340
429.22
+0.20%
345 430
433.31
C-685
429.02
344 430
432.56
C-687
428.82
343 430
432.02
C-560
428.62
342 430
431.67
428.67
C-503
428.42
+0.20%
+0.20%
341 430
431.52
428.47
C-374
428.22
Fill - 180 Earth
340 430
431.52
428.33
C-290
428.08
Fill - 245 Earth
339 30 430
8
431.52
428.27
C-240
428.02
Fill -413 Earth
339 430
8
431.51
428.07
C-139
427.82
Fill - 625 Earth
338 420
8
+0.20%
431.51
428.03
C-100
427.78
Fill { 750 Earth 0 Sand
337 2E 420
10
+0.20%
+0.20%
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

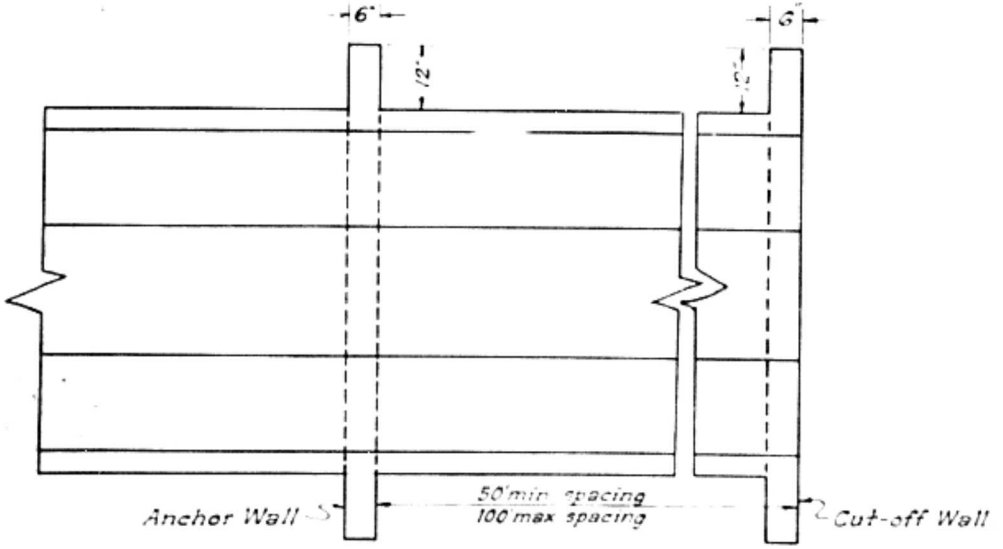

FINAL SURVEY
DRAWN
PLOTTED
TRACED
CHECKED
NO.
358
430
APP. GR. -4.0% LT. STA. 358+40
32' RDWY. EEA 202" Earth
430.25
436.50
C - 0
Fill - 490 Earth
+0.25% @ Ditch
APP. GR. -1.0% RT. STA. 358+40
32' RDWY. EEA = 120" Earth
357
430
439.25
436.25
24" PIPE CULVERT
431.50
435.00
C - 17
Fill - 650 Earth
+0.50%
356
430
440.25
Approx. Granular Material
431.00
432.60
C - 35
Fill 1025 Earth
+2.40%
+0.50%
355
430
441.05
430.50
427.60
C - 55
Fill - 1480 Earth
+5.00%
NOTE: BRIDGE ENDS
AT STA. 354+72.28
354
34
430
425.30
C - 165
F - 00
354
33
420
354
32
420
352
02
420
00
NOTE: BRIDGE BEGINS
AT STA. 352+27.27
352
420
441.05
Fill 105 Earth
3015 Sand
351
420
440.25
Fill 104 Earth
2785 Sand
350
420
439.25
Fill 100 Earth
2582 Sand
349
420
438.25
Earth Fill
Stone Riprap
Earth Fill
Earth Fill
Fill 97 Earth
2430 Sand
FA 155 402 Madison-Jersey
21
12
Scale:
1" = 10' Hor.
1" = 10' Vert.
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90


374 430
431.66
428.34
C-495
Fill -425 Earth
428.66
+0.20%
+0.86%
373 430
431.65
428.14
C-600
Fill - 280 Earth
427.80
+0.20%
+0.80%
372 430
431.65
427.94
C-725
Fill -110 Earth
427.00
+0.20%
+1.75%
371 430
431.64
427.74
36" PIPE CULVERT
423.50
-3.45%
C-940
-0.20%
425.25
-1.35%
370 430
431.64
426.95
427.94
C-1040
426.60
-0.20%
-0.20%
369 430
431.64
427.15
428.14
C-1038
426.80
368 430
431.63
427.35
428.34
C-978
427.00
367 430
431.63
427.55
428.54
C-943
427.20
-0.20%
-0.20%
366 430
431.74
427.75
428.74
C-865
427.40
365 430
432.08
C-650
F-0
427.60
364 430
432.60
C-310
F-14
427.80
-0.20%
363 430
433.33
C-215
F-78
428.00
-3.00%
362 430
434.25
C-245
F-8
431.00
361 430
435.25
C-110
F-36
360 430
436.25
C-18
F-134
433.00
-0.20%
359 430
437.25
Sub-Base - Granular Material
Sub-Base - Granular Material
C-0
F-300
433.20
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90
FA 455 402 Madison-Jersey 21 13


388 430
431.71
C-63
Fill { 13 Earth 793 Sand
429.20
+0.20%
10
387 430
(Earth Fill
431.71
65
Fill { 13 Earth 754 Sand
429.00
13
386 430
431.70
C-60
Fill { 13 Earth 640 Sand
428.80
APP. G.R. +10.0% RT. STA. 386+15
26' RDWY. ±EA = 65* CUT 10' FILL
+0.20%
PAVED DITCH RT.
STA. 385+00 to STA. 385+06
+0.20% GRADE
6
385 430
431.70
C-90
Fill { 514 Earth 0 Sand
423.60
PAVED DITCH RT.
STA. 386+72 to STA. 385+00
+22.86% GRADE
384 72 430
431.70
C-17
F-723 Earth
PAVED DITCH RT.
STA. 386+68 to STA. 386+72
0.00 % GRADE
422.2
384 32 430
431.70
C-0
F-710 Earth
60" PIPE CULVERT
PAVED DITCH RT.
STA. 386+32 to STA. 386+36
0.00 % GRADE
F.L. 421.80
422.20 F.L.
384 430
431.70
C-120
F-480 Earth
PAVED DITCH RT.
STA. 385+80 to STA. 386+32
-10.96 % GRADE
427.90
PAVED DITCH RT.
STA. 383+96 to STA. 386+00
-0.20 % GRADE
-0.20%
383 75 430
431.70
C-177
F-467 Earth
427.95
383 430
431.69
C-250
F-430 Earth
428.10
382 430
431.69
C-270
F-420 Earth
428.30
10
381 430
431.68
C-270
F-464 Earth
428.50
10
380 430
431.68
C-260
F-465 Earth
428.70
10
379 430
431.68
C-250
F-500 Earth
428.90
17
378 430
431.67
C-242
F-552 Earth
429.10
20
377 430
431.67
431.00
C-290
F-565 Earth
429.30
-0.20%
24
376 430
431.66
430.60
C-335
F-517 Earth
429.50
+0.20%
18
375 430
431.66
C-407
F-864 Earth
429.30
+0.64%
16
100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

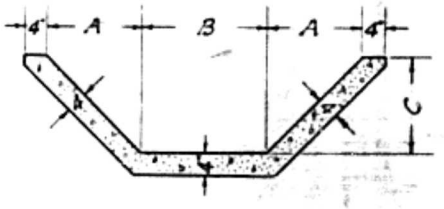

393
430
431.73
429.00
-0.20%
392
430
431.73
429.20
391
430
431.72
429.40
-0.20%
390
430
431.72
Earth Fill
C-20
Fill { 13 Earth
880 Sand
429.60
1½ to 1
8
+0.20%
389
430
431.72
C-52
Fill { 13 Earth
833 Sand
Sub-Base Granular Material
429.40
1½ to 1
10
+0.20%

	COUNTY	SHEETS	SHEET NO.
FA 155 402	Madison-Jersey	21	21

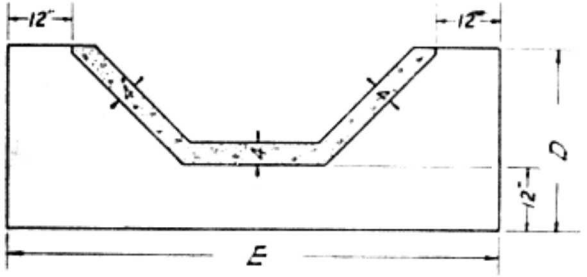


PLAN

SHOWING PAVED DITCH, ANCHOR AND CUT-OFF WALLS.



TYPICAL SECTION
of
Paved Ditch



ELEVATION
of
ANCHOR AND CUT-OFF WALLS.

~NOTE~

Class X Concrete shall be used throughout for paved ditches, cut-off walls and anchor walls. Cut-off and anchor walls shall be constructed monolithically with the paved ditch. Cut-off walls shall be constructed at both downstream and upstream ends, with anchor walls spaced at a minimum of 50 feet and a maximum 100 feet between cut-off walls. One anchor shall be constructed for each full 100 feet of paved ditch. See plans for location and grade.

TYPE	DIMENSIONS				
	A	B	C	D	E
1	18"	12"	12"	2'-4"	6'-8"
2	18"	24"	12"	2'-4"	7'-8"
3	18"	36"	12"	2'-4"	8'-8"

DETAIL
OF
PAVED DITCH

9-3-47 W.E.K.

No. 8-4