CALC. BY DATE	STARK COUNTY STA-241-4.22	OHIO FHWA REGION 5	303
CHKD. BY DATE			

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
STA-241-4.22
CITY OF MASSILLON
TUSCARAWAS TOWNSHIP
STARK COUNTY
GRADE CROSSING WITH CONRAIL

CONVENTIONAL SIGNS

County Line		Limited Access (only)	LA
Township Line		Right of Way (only)	RW
Section Line		Limited Access & Right of Way	LA & RW
Corporation Line		Existing Right of Way	R/W
Fence Line (existing)	(proposed)	Property Line (in existing fence)	
Center Line		Railroad	or
Trees (to be saved) save		Guardrail (exist.)	(prop.)
Utility Poles: Telephone, Power, Light		Manholes (exist.) (adjst.)	(prop.)
		Catch or Inlet Basins (exist.) (adjst.)	(prop.)

INDEX OF SHEETS

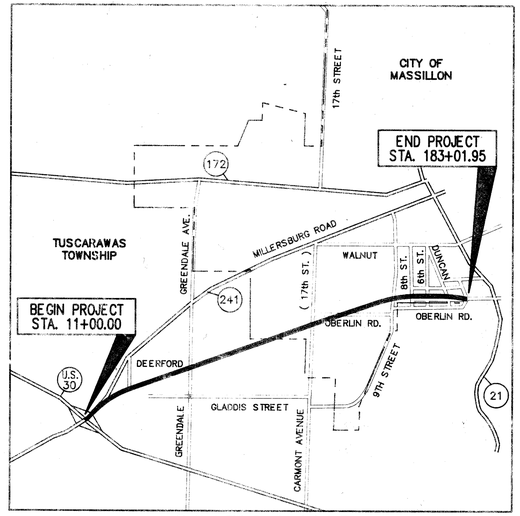
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LINE DATA

Begin Project	STA. 11+00.00	
Suspend Project	STA. 177+48.13	16,648.13 Lin. Ft.
Resume Project	STA. 177+56.63	
End Project	STA. 183+01.95	545.32 Lin. Ft.
Length of Project		17,193.45 Lin. Ft. or 3.256 Miles

ADD FOR APPROACHES

S.R. 241	
STA. 183+01.95 to STA. 183+15.00 =	13.05 Lin. Ft.
Relocated Millersburg Road	
STA. 10+25.00 to STA. 21+30.00 =	1,105.00 Lin. Ft.
17th Street	
STA. 5+00.00 to STA. 9+82.00 =	482.00 Lin. Ft.
STA. 10+18.00 to STA. 12+00.00 =	182.00 Lin. Ft.
Oberlin Road	
STA. 0+16.00 to STA. 3+40.86 =	324.86 Lin. Ft.
Length of Work	19,320.36 Lin. Ft. or 3.659 Miles



LOCATION MAP
SCALE IN MILES
0 1 2

N

Portion to be improved
Federal and State Roads
Other Roads

SCALES

Plan (STA. 11+00.00 TO STA. 155+00.00) 0 50 100
Profile Horizontal 0 50 100 Vertical 0 5 10
Plan (STA. 155+00.00 TO STA. 183+01.95) 0 20 40
Profile Horizontal 0 20 40 Vertical 0 5 10
Cross Section: Horizontal 0 10 20 Vertical 0 10 20

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECT

SUPPLEMENTAL SPECIFICATIONS	
839 12-21-87	802 4-13-90
840 5-16-84	
931 6-18-85	

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-2	1-11-85	GR-4.1	5-6-91			MT-99.10	11-14-86	TC-65.13	5-21-81
BP-4	10-1-87	GR-4.2	5-6-91	HW-4B	4-1-80			TC-71.10	4-9-79
BP-5	10-1-87	GR-5	2-5-82	HW-4A	4-1-80	TC-35.10	8-29-84		
BP-6	10-1-87					TC-41.10	8-29-84	HL-10.11	5-1-87
BP-7	10-1-87	MC-1	6-13-69	MH-1	12-18-84	TC-41.20	3-26-79	HL-10.12	5-1-87
BP-12	10-1-87	MC-4	7-26-76	MH-3	12-18-84	TC-41.40	6-18-79	HL-10.13	5-1-87
		MC-10	5-1-76	MH-5	6-12-75	TC-41.50	3-26-79	HL-20.11	5-1-87
F-1	11-10-83	MC-11	8-1-78			TC-42.10	8-19-77	[illegible]-30.11	5-1-87
F-2	5-1-76			MC-8	6-12-75	TC-42.20	3-26-79	[illegible]-60.11	5-1-87
		CB-2-2-A&B	5-1-79			TC-52.10	4-3-79	[illegible]-60.31	5-1-87
GR-1.1	5-6-91	CB-3	5-1-79	MT-95.31	10-10-88	TC-52.20	4-3-79	[illegible]-40.10	5-1-87
GR-1.2	5-6-91	CB-3A	5-1-79	MT-95.32	6-25-89	TC-65.10	2-26-82	[illegible]-60.12	5-1-87
GR-2.1	5-6-91	CB-5	[illegible]	MT-97.10	4-29-88	TC-65.12	5-21-81		

CT Consultants, Inc.
Engineers · Architects · Planners
Willoughby · Medina · North Canton · Steubenville · Lorain

Project: STA-241-4.22
Date of Letting 19 , Contract No.

THOMAS S. KRECZKO
REGISTERED ENGINEER # 40154

NON-FEDERAL

1991 SPECIFICATIONS

The standard specifications of the State of Ohio Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that detours will be provided as indicated on the plans. See Sht. 23, 24 and 27.

Approved
Date Mayor, City of Massillon

Approved
Date Stark County Engineer

Approved
Date Stark County Commissioner

Approved Mary M. Cirelli
Date 2/4/92 Stark County Commissioner

Approved: Patricia A. Miller
Date 2/4/92 Stark County Commissioner

Approved
Date District Deputy Director of Transportation

Approved
Date Engineer, Bureau of Bridges and Structural Design

Approved
Date Chief Engineer, Planning and Design

Approved
Date Director, Department of Transportation

CT CONSULTANTS, INC
MAY 28 1992
PRINTED

241

CALC. BY CCH DATE 6/91	STA–241–4.22	OHIO
CHKD. BY KJS DATE 6/91		FHWA REGION 5

SCHEMATIC PLAN

SCALE IN FEET
100 0 200 500

N

MILLERSBURG RD. (EXIST. S.R. 241)
CURVE DATA
P.I. STA. 49+99.26
D_c = 1°–28'–00"
R = 3906.59'
Δ = 39°–20'–15"
T = 1396.34'
L = 2682.11'
E = 242.05'
e = 0.035

℄ CONSTRUCTION
CURVE DATA
RELOCATED MILLERSBURG RD.
P.I. STATION 13+02.87
D_c = 5°–26'–15"
Δ = 29°–23'–54"
L_s = 280.00'
T_s = 417.15'
R = 1053.70'
L_c = 260.66'
X_c = 279.51'
Y_c = 12.38'
E = 38.86'
θ_s = 7°–36'–45"
e_{max} = 0.060 FT./FT.

BEGIN PROJECT
STA. 11+00
S.L.M. 4.22

BEGIN WORK
STA. 3+50

P.O.C.
STA. 17+14.61 RELOCATED MILLERSBURG ROAD
= STA. 59+35.0
EXIST. S.R. 241

END WORK
STA. 21+50.00

8.23'
N. 29°–05'–24" E.

S.T.
STA. 17+06.38

℄ CONSTRUCTION
RELOCATED
MILLERSBURG RD.

BEGIN WORK
STA. 10+25.00

DEERFORD

EXIST. ℄ S.R. 241

℄ CONSTRUCTION
RELOCATED S.R. 241

N. 52°–55'–30" E.

U.S. ROUTE 30

S.C.
STA. 11+65.72

C.S.
STA. 14+26.38

48" ϕ CULVERT

N. 69°–41'–31" E.

℄ RELOCATED SR 241

S.T.
STA. 21+56.69

GAS WELL

S.C.
STA. 16+76.76

C.S.
STA. 18+11.69

℄–℄
STA. 20+20.65 S.R. 241
STA. 10+00.98 RELOCATED MILLERSBURG RD.

HIGH VOLTAGE WIRES

MATCH LINE STA. 45+00

STA.	VERTICAL CLEARANCE @ ℄	
	PROPOSED	EXISTING
10+00	33.9'	33.9'
11+20	29.0'	29.0'
12+50	26.6'	25.5'
16+05	31.3'	31.3'

℄ CONSTRUCTION
CURVE DATA
PROPOSED S.R. 241
P.I. STATION 17+46.33
D_c = 3°–29'–37"
Δ = 16°–46'–01"
L_s = 345.00'
T_s = 414.57'
R = 1640.00'
L_c = 134.93'
X_c = 344.61'
Y_c = 12.09'
E = 20.77'
θ_s = 6°–01'–35"
e_{max} = 0.054 FT./FT.

CITY OF MASSILLON
TUSCARAWAS TOWNSHIP

N. 1°–42'–26" E.

GREENDALE AVENUE

N. 69°–41'–31" E.

36" ϕ CULVERT

℄ ℄ CONSTRUCTION
STA. 58+30.49 S.R. 241
STA. 10+00.00 GREENDALE AVE.

℄ RELOCATED SR 241

MATCH LINE STA. 95+00

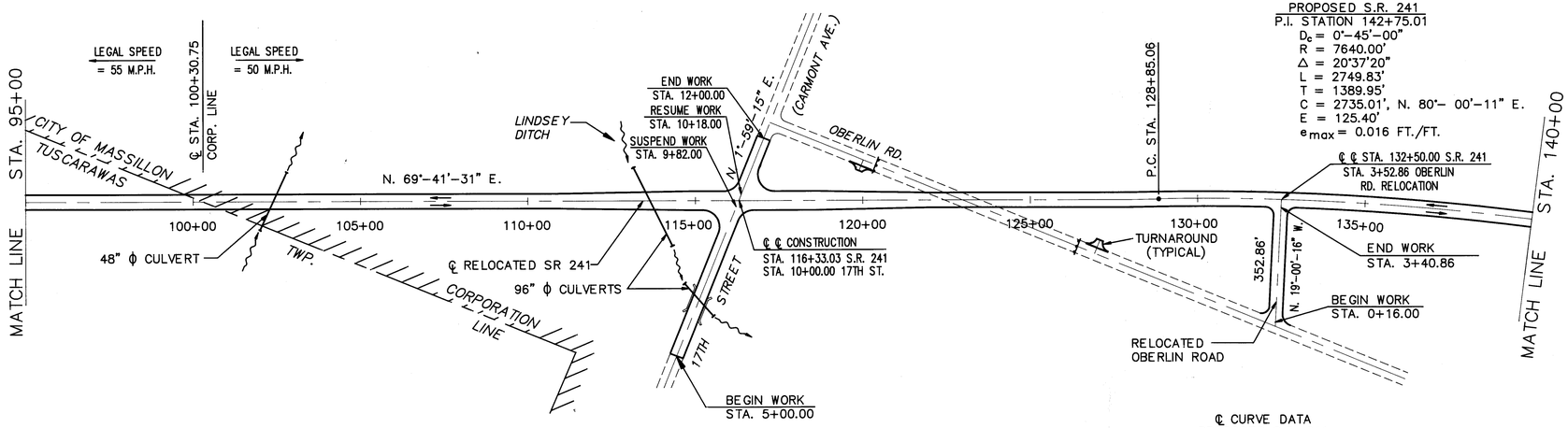
S.R. 241 – DESIGN DESIGNATION				
SECTION FROM:	10+00	100+30.75	150+96.69	165+75.15
TO:	100+30.75	150+96.69	165+75.15	182+37.86
CUR. ADT 1990	—	—	—	—
DES. ADT 2010	4920	5010	6090	7850
D.H.V.	492	501	609	785
D	55%	55%	55%	55%
T	3%	3%	3%	3%
DES. SPEED (V)	55 MPH	50 MPH	40 MPH	40 MPH
LEGAL SPEED	55 MPH	50 MPH	35 MPH	35 MPH
FUNC. CLASS	← URBAN MINOR ARTERIAL →			

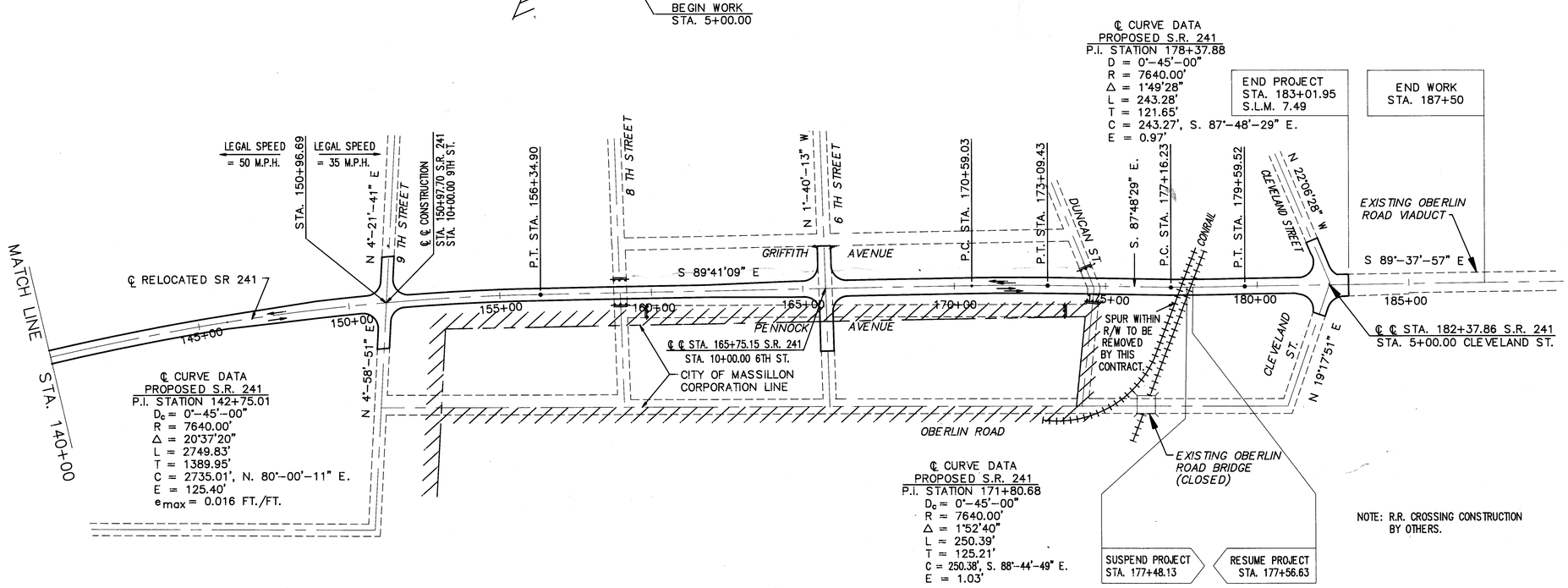
℄ ROUTE 241

CALC. BY K.JS DATE 6/91	STA-241-4.22	OHIO	3
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

SCHEMATIC PLAN

SCALE IN FEET
100 0 200 500





STATE ROUTE 241

SCHEMATIC PLAN

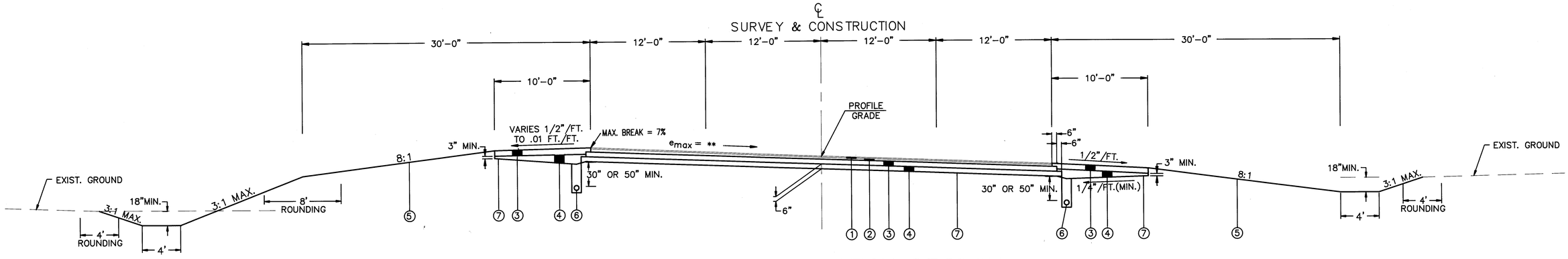
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	4 / 303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	

TYPICAL SECTIONS

TYPE 404 ON 301

0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR SEEDING AND MULCHING QUANTITIES, SEE SHEET 41
FOR UNDERDRAIN QUANTITIES, SEE SHEETS 32 & 33
FOR DRIVEWAY TYPICAL SECTIONS SEE SHEET 39



FOUR LANE SUPERELEVATION SECTION

SR 241

** e_{max} =	0.054				
TRANSITION:	STA. 11+00.00 TO STA. 16+76.76	=	576.76 L.F.		
FULL SUPERELEVATION:	STA. 16+76.76 TO STA. 18+11.69	=	134.93 L.F.		
TRANSITION:	STA. 18+11.69 TO STA. 23+06.69	=	495.00 L.F.	1,206.69	LIN. FT.

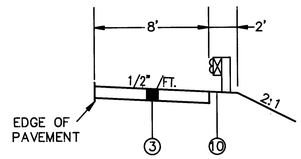
RELOCATED MILLERSBURG ROAD (EXISTING S.R. 241)

** e_{max} =	0.060				
TRANSITION:	STA. 10+00.98 TO STA. 11+65.72	=	164.74 L.F.		
FULL SUPERELEVATION:	STA. 11+65.72 TO STA. 13+31.67	=	165.95 L.F.		
TRANSITION:	STA. 13+31.67 TO STA. 21+00.00	=	768.33 L.F.	1,099.02	LIN. FT.
				2,305.71	LIN.FT.

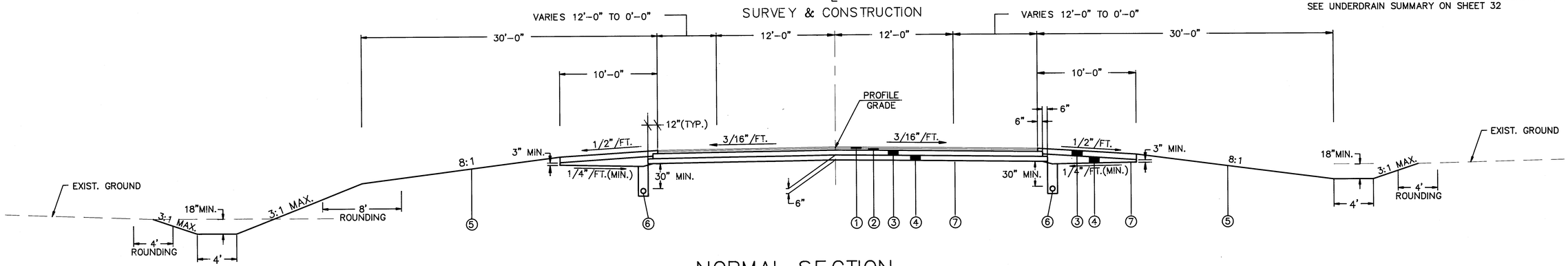
LEGEND

①	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
②	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
③	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC 20
④	ITEM 304	AGGREGATE BASE, AS PER PLAN
⑤	ITEM 659	SEEDING AND MULCHING
⑥	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
*	ITEM 605	6" DEEP PIPE UNDERDRAIN
⑦	ITEM 203	SUBGRADE COMPACTION
⑧	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
⑨	ITEM 608	4" CONCRETE WALK
⑩	ITEM 606	GUARDRAIL, TYPE 5

* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32



GUARDRAIL DETAIL
(SEE PLANS FOR LIMITING STATIONS)
SCALE: 1" = 5'



NORMAL SECTION

S.R. 241

STA. 23+06.69 TO STA. 29+75.00 = 668.31

ROUTE 241

TYPS

TYPICAL SECTIONS

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
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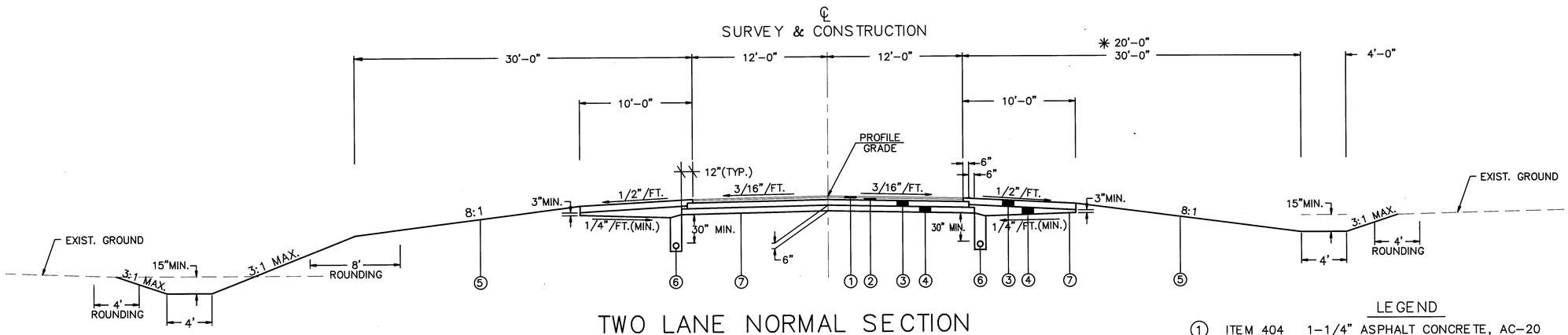
5
303

TYPICAL SECTIONS

TYPE 404 ON 301

0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR SEEDING & MULCHING QUANTITIES, SEE SHEET 41
FOR UNDERDRAIN QUANTITIES, SEE SHEETS 32 & 33
FOR DRIVEWAY TYPICAL SECTIONS, SEE SHEET 39



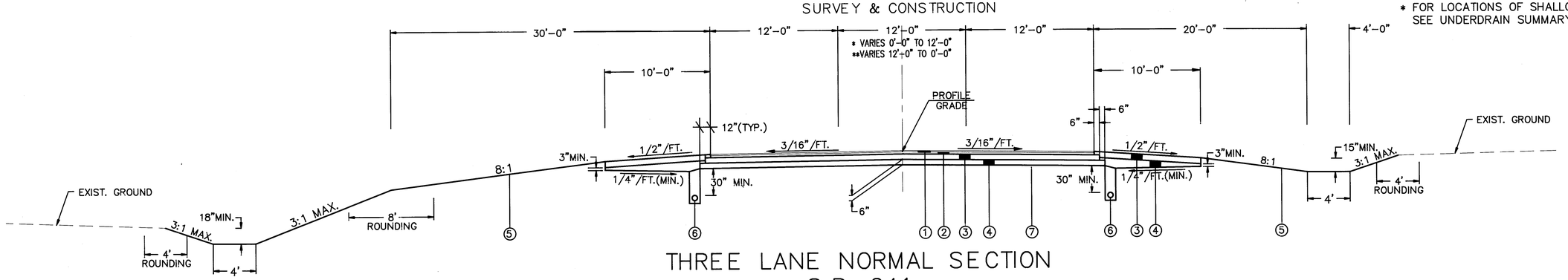
TWO LANE NORMAL SECTION
S.R. 241

STA. 29+75.00 TO STA. 110+85.00 = 8,110.00 LIN. FT.
* STA.121+95.00 TO STA. 127+07.50 = 512.50 LIN. FT.
8,622.50 LIN. FT.

LEGEND

①	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
②	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
③	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC 20
④	ITEM 304	AGGREGATE BASE, AS PER PLAN
⑤	ITEM 659	SEEDING AND MULCHING
⑥	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
*	ITEM 605	6" DEEP UNDERDRAIN
⑦	ITEM 203	SUBGRADE COMPACTION
⑧	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
⑨	ITEM 608	4" CONCRETE WALK
⑩	ITEM 606	GUARDRAIL, TYPE 5

* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32.



THREE LANE NORMAL SECTION
S.R. 241

* STA. 110+85.00 TO STA. 114+15.00 = 330.00 LIN. FT.
STA. 114+15.00 TO STA. 118+65.00 = 450.00 LIN. FT.
**STA. 118+65.00 TO STA. 121+95.00 = 330.00 LIN. FT.
1,110.00 LIN. FT.

TYPS2

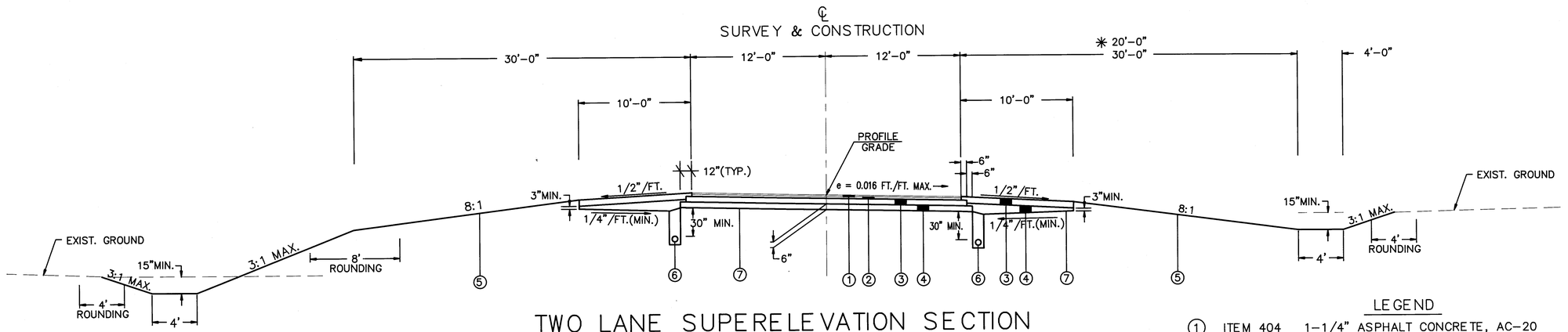
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	6 / 303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	

TYPICAL SECTIONS

TYPE 404 ON 301

0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR SEEDING & MULCHING QUANTITIES, SEE SHEET 41
FOR UNDERDRAIN QUANTITIES, SEE SHEETS 32 & 33
FOR DRIVEWAY TYPICAL SECTIONS, SEE SHEET 39



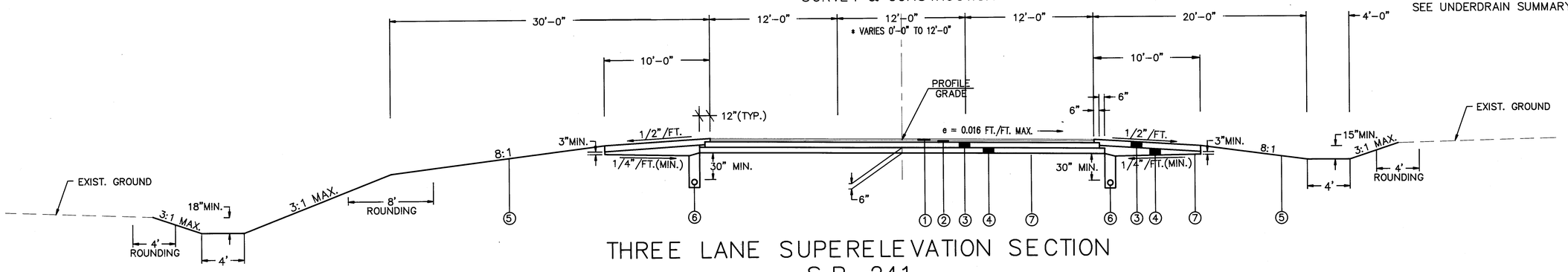
TWO LANE SUPERELEVATION SECTION
S.R. 241

TRANSITION: STA. 127+07.50 TO STA. 129+35.00 = 227.50 LIN. FT.
FULL SUPERELEVATION: * STA. 129+35.00 TO STA. 145+95.00 = 1,660.00 LIN. FT.
1,887.50 LIN. FT.

LEGEND

(1)	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
(2)	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
(3)	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC 20
(4)	ITEM 304	AGGERGATE BASE, AS PER PLAN
(5)	ITEM 659	SEEDING AND MULCHING
(6)	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
*	ITEM 605	6" DEEP UNDERDRAIN
(7)	ITEM 203	SUBGRADE COMPACTION
(8)	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
(9)	ITEM 608	4" CONCRETE WALK
(10)	ITEM 606	GUARDRAIL, TYPE 5

* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32.



THREE LANE SUPERELEVATION SECTION
S.R. 241

FULL SUPERELEVATION:
* STA. 145+95.00 TO STA. 148+95.00 = 300.00 LIN. FT.
STA. 148+95.00 TO STA. 150+97.70 = 202.70 LIN. FT.
502.70 LIN. FT.

TYPS2A

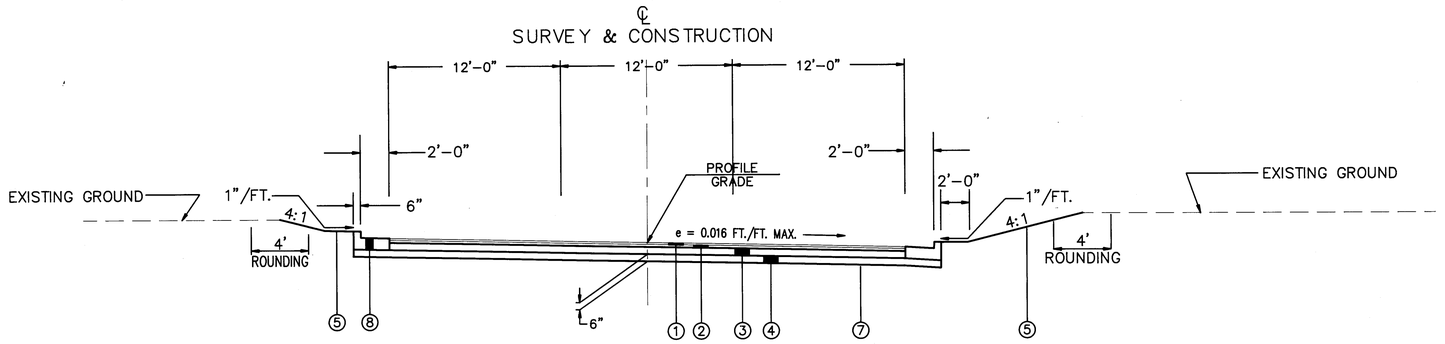
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	7
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

TYPICAL SECTIONS

TYPE 404 ON 301

0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR CURB QUANTITIES, SEE SHEET 31
FOR SEEDING AND MULCHING QUANTITIES, SEE SHEET 41
FOR DRIVEWAY TYPICAL SECTIONS, SEE SHEET 39



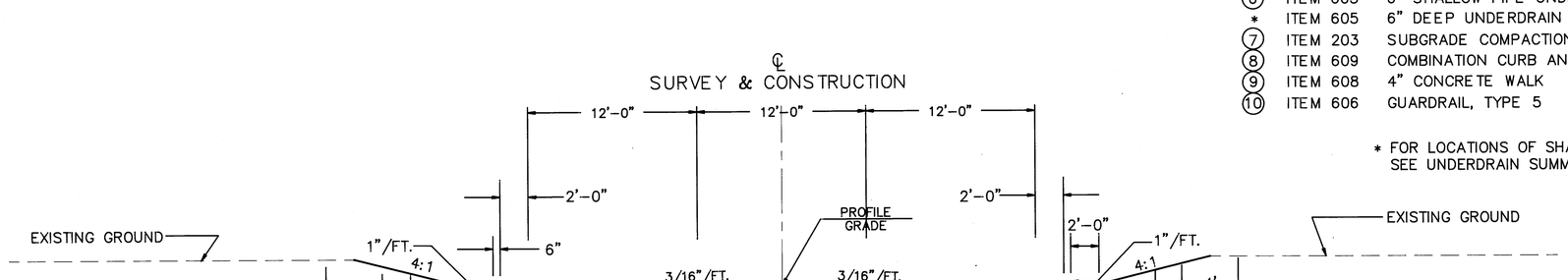
THREE LANE SUPERELEVATED CURB SECTION
S.R. 241

FULL SUPERELEVATION: STA. 150+97.70 TO STA. 155+87.50 = 489.80 LIN. FT.
TRANSITION: STA. 155+87.50 TO STA. 158+12.50 = 225.00 LIN. FT.
714.80 LIN. FT.

LEGEND

①	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
②	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
③	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC 20
④	ITEM 304	AGGREGATE BASE, AS PER PLAN
⑤	ITEM 659	SEEDING AND MULCHING
⑥	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
*	ITEM 605	6" DEEP UNDERDRAIN
⑦	ITEM 203	SUBGRADE COMPACTION
⑧	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
⑨	ITEM 608	4" CONCRETE WALK
⑩	ITEM 606	GUARDRAIL, TYPE 5

* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32



THREE LANE CURB SECTION
S.R. 241

STA. 158+12.50 TO STA. 161+75.00 = 362.50 LIN. FT.

TYPS3

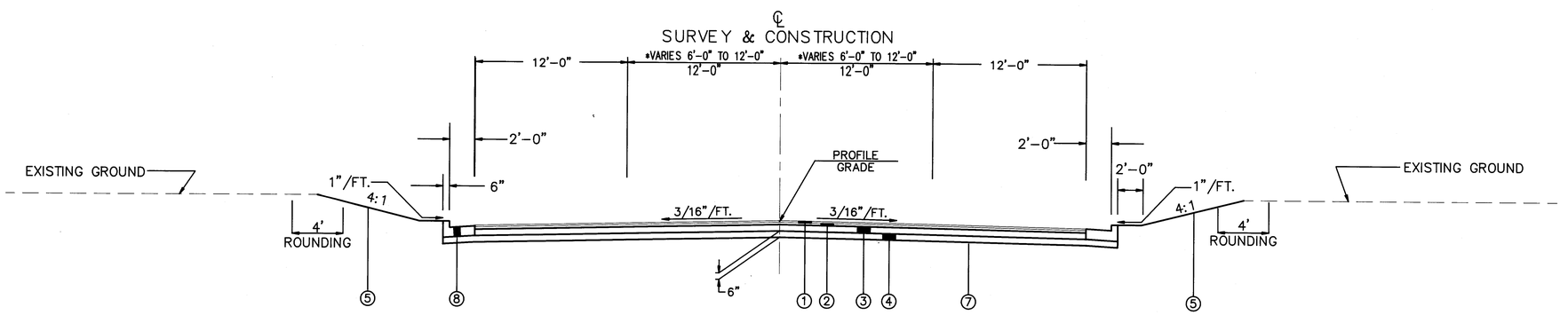
CALC. BY KJS DATE 6/91 CHKD. BY CCH DATE 6/91	STA-241-4.22	OHIO FHWA REGION 5	8 303

TYPICAL SECTIONS

TYPE 404 ON 301

0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR CURB QUANTITIES, SEE SHEET 31
FOR SEEDING AND MULCHING QUANTITIES, SEE SHEET 41
FOR DRIVEWAY TYPICAL SECTIONS, SEE SHEET 39



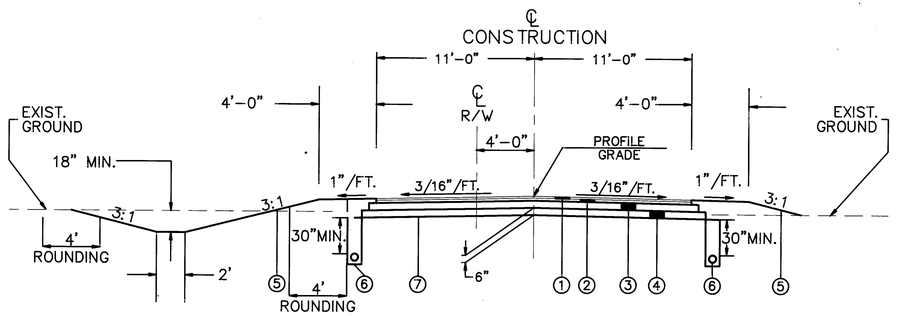
FOUR LANE CURB SECTION
S.R. 241

* STA. 161+75.00 TO STA. 164+75.00= 300.00 LIN. FT.
STA. 164+75.00 TO STA. 182+37.86= 1,762.86 LIN. FT.
2,062.86 LIN. FT.

LEGEND

①	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
②	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
③	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC 20
④	ITEM 304	AGGREGATE BASE, AS PER PLAN
⑤	ITEM 659	SEEDING AND MULCHING
⑥	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
*	ITEM 605	6" DEEP UNDERDRAIN
⑦	ITEM 203	SUBGRADE COMPACTION
⑧	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
⑨	ITEM 608	4" CONCRETE WALK
⑩	ITEM 606	GUARDRAIL, TYPE 5

* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32.



GREENDALE AVENUE

STA. 8+75 TO STA. 11+75 = 300 LIN. FT.

TYPS3A

STATE ROUTE 241

TYPICAL SECTIONS

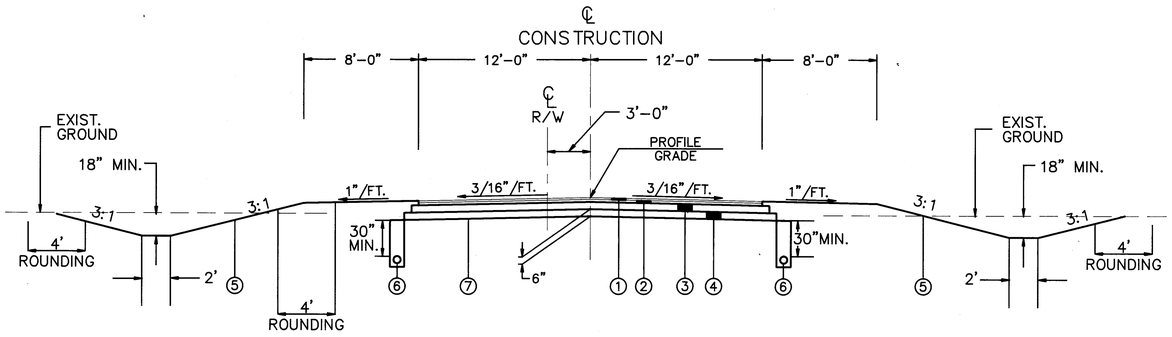
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	9
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

TYPICAL SECTIONS

TYPE 404 ON 301

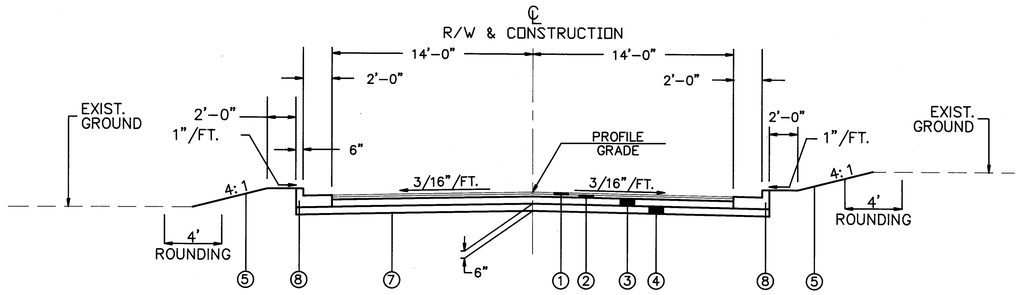
0 5
SCALE IN FEET

FOR PAVEMENT QUANTITIES, SEE SHEET 31
FOR CURB QUANTITIES, SEE SHEET 31
FOR SEEDING AND MULCHING QUANTITIES, SEE SHEET 41
FOR UNDERDRAIN QUANTITIES, SEE SHEETS 32 & 33
FOR DRIVEWAY TYPICAL SECTIONS, SEE SHEET 39



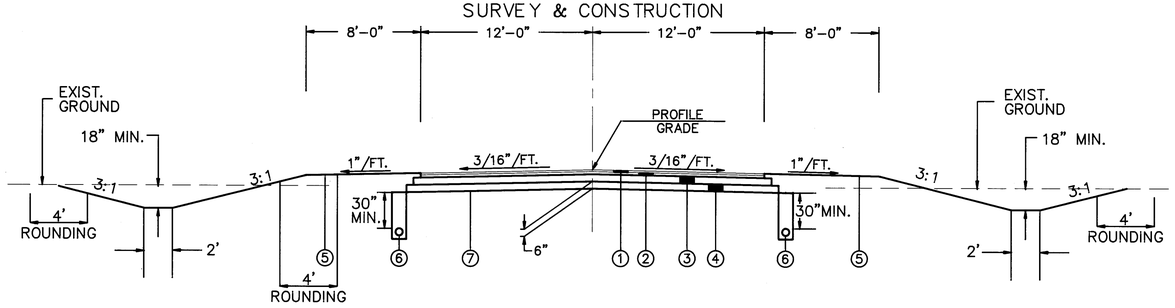
17TH STREET

STA. 5+00 TO STA. 12+00 = 700 LIN. FT.



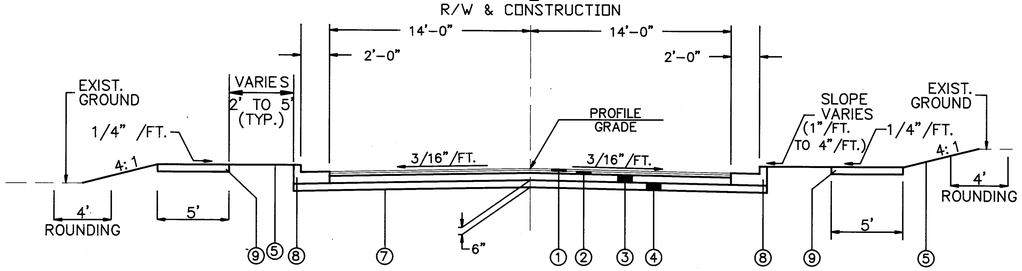
6TH STREET

STA. 8+00 TO STA. 11+50 = 350 LIN. FT.



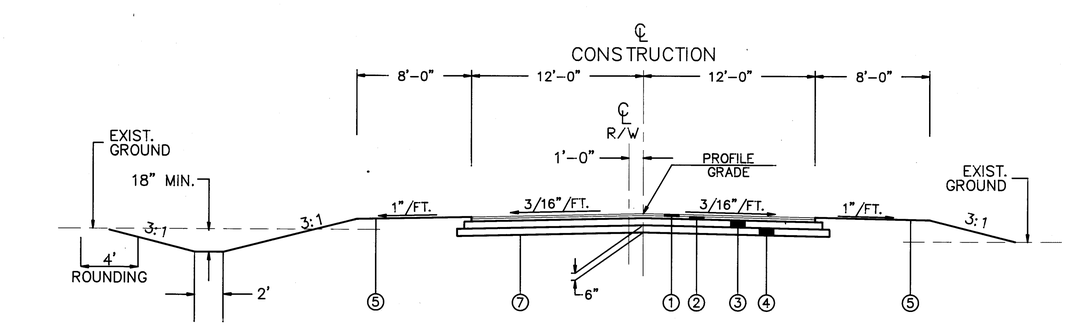
OBERLIN ROAD

STA. 0+16 TO STA. 3+40.86 = 324.86 LIN. FT.



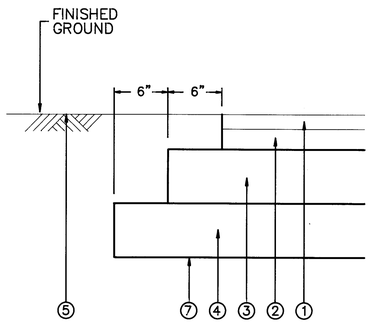
CLEVELAND STREET

STA. 3+85 TO STA. 6+60 = 275 LIN. FT.



9TH STREET

STA. 8+50 TO STA. 11+50 = 300 LIN. FT.



EDGE COURSE DETAIL

GREENDALE AVENUE, 17TH STREET & 9TH STREET
(NOT TO SCALE)

LEGEND

(1)	ITEM 404	1-1/4" ASPHALT CONCRETE, AC-20
(2)	ITEM 402	1-3/4" ASPHALT CONCRETE, AC-20
(3)	ITEM 301	8" BITUMINOUS AGGREGATE BASE, AC-20
(4)	ITEM 304	AGGREGATE BASE, AS PER PLAN
(5)	ITEM 659	SEEDING AND MULCHING
(6)	ITEM 605	6" SHALLOW PIPE UNDERDRAIN
	*	6" DEEP UNDERDRAIN
(7)	ITEM 203	SUBGRADE COMPACTION
(8)	ITEM 609	COMBINATION CURB AND GUTTER, TYPE 2
(9)	ITEM 608	4" CONCRETE WALK
(10)	ITEM 606	GUARDRAIL, TYPE 5

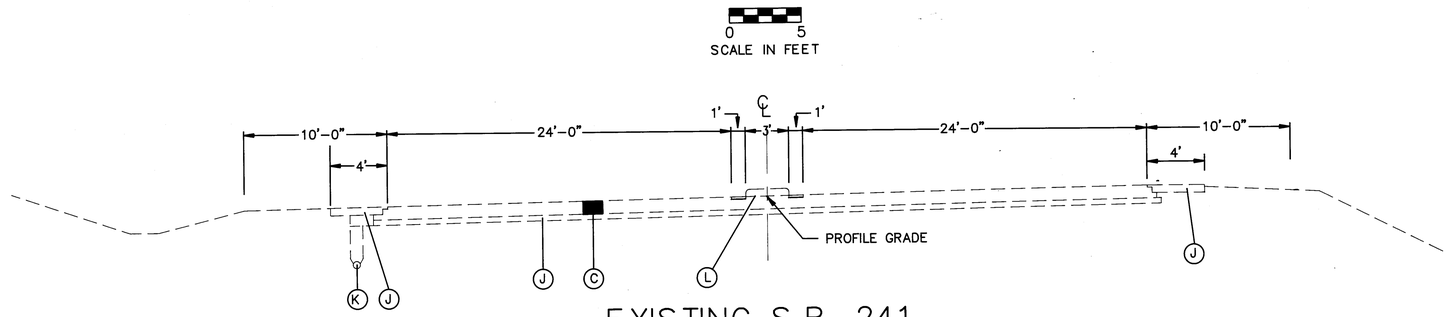
* FOR LOCATIONS OF SHALLOW OR DEEP UNDERDRAINS, SEE UNDERDRAIN SUMMARY ON SHEET 32.

TYPS4

CALC. BY CCH DATE 6/91	STA-241-4.22	OHIO
CHKD. BY KJS DATE 6/91		FHWA REGION 5

10 / 303

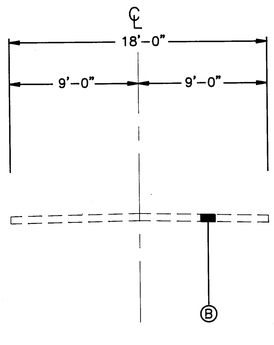
EXISTING TYPICAL SECTIONS



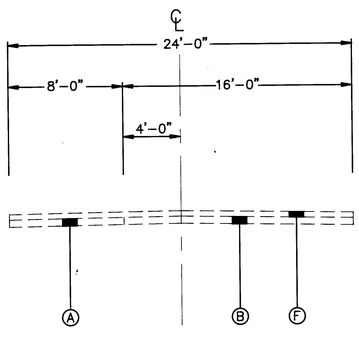
EXISTING S.R. 241
4 LANE SUPERELEVATED SECTION

LEGEND

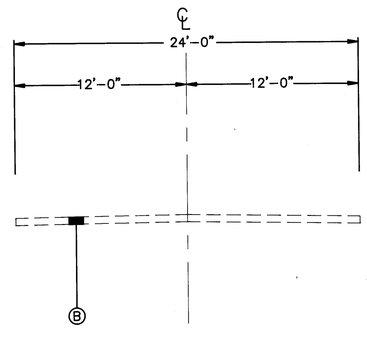
- (A) BRICK
- (B) CHIP & SEAL (THICKNESS VARIES)
- (C) ASPHALT (THICKNESS VARIES)
- (D) 6" CONCRETE
- (E) 6 1/2" CONCRETE
- (F) 1 1/2" ASPHALT OVERLAY
- (G) CONCRETE CURB
- (H) CONCRETE SIDEWALK
- (I) CONCRETE CURB & GUTTER
- (J) GRAVEL BASE
- (K) PIPE UNDERDRAINS
- (L) CONCRETE MEDIAN



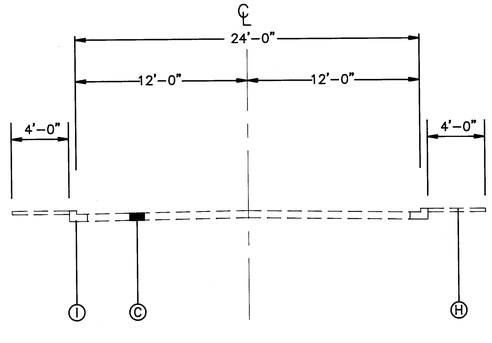
GREENDALE AVENUE



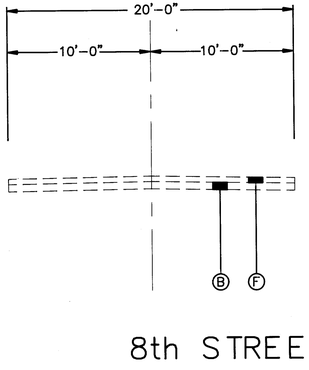
17th STREET



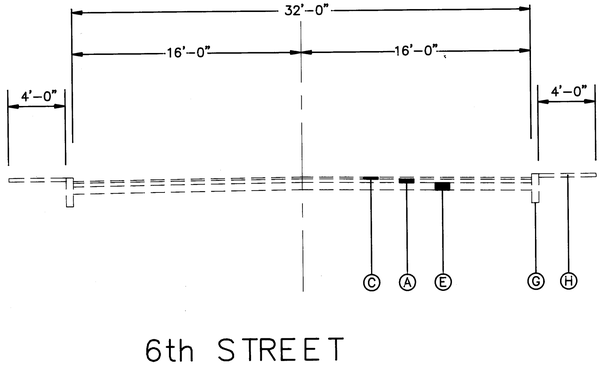
9th STREET & OBERLIN ROAD



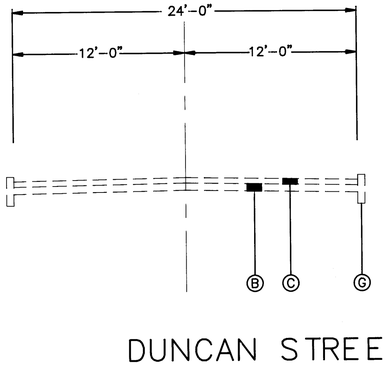
PENNOCK AVENUE



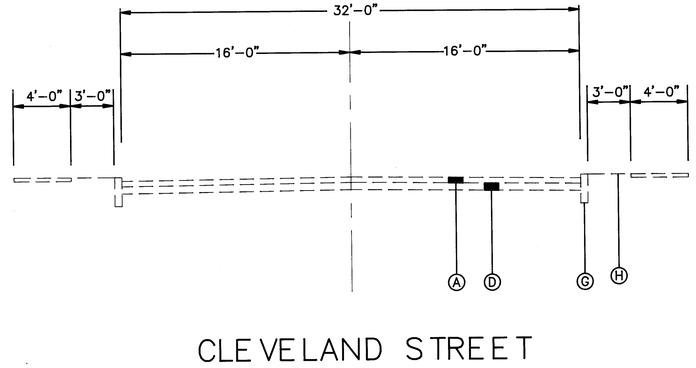
8th STREET



6th STREET



DUNCAN STREET

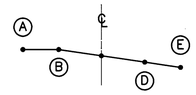


CLEVELAND STREET

STATE ROUTE 241

SUPERELEVATION TABLES

CALC. BY CCH DATE 4/91	STA-241-4.22	OHIO	11
CHKD. BY KJS DATE 4/91		FHWA REGION 5	303



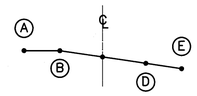
PROPOSED S.R. 241

STATION	A	B	℄	D	E
11+00	1121.56	1121.98	1122.78	1123.49	1123.09
11+25	1122.69	1123.11	1123.78	1124.37	1123.95
11+50	1123.79	1124.21	1124.75	1125.23	1124.81
11+75	1124.86	1125.28	1125.69	1126.05	1125.63
12+00	1125.86	1126.28	1126.61	1126.85	1126.43
12+25	1126.81	1127.23	1127.50	1127.62	1127.20
12+50	1127.73	1128.15	1128.35	1128.36	1127.94
12+75	1128.62	1129.04	1129.18	1129.07	1128.65
13+00	1129.49	1129.91	1129.99	1129.76	1129.34
13+25	1130.32	1130.74	1130.76	1130.42	1130.00
T.S.13+31.76	1130.55	1130.97	1130.97	1130.60	1130.18
13+50	1131.14	1131.56	1131.51	1131.14	1130.72
13+75	1131.92	1132.34	1132.23	1131.86	1131.44
14+00	1132.67	1133.09	1132.92	1132.55	1132.13
14+25	1133.39	1133.81	1133.58	1133.21	1132.79
14+50	1134.10	1134.52	1134.22	1133.85	1133.43
14+75	1134.76	1135.18	1134.82	1134.45	1134.03
14+81.76	1134.94	1135.36	1134.98	1134.61	1134.19
15+00	1135.44	1135.86	1135.40	1134.94	1134.52
15+25	1136.11	1136.53	1135.95	1135.37	1134.95
15+50	1136.76	1137.17	1136.47	1135.77	1135.35
15+75	1137.43	1137.79	1136.97	1136.15	1135.73
16+00	1138.07	1138.38	1137.44	1136.50	1136.08
16+25	1138.66	1138.92	1137.87	1136.82	1136.38
16+50	1139.25	1139.46	1138.29	1137.17	1136.70
16+75	1139.80	1139.96	1138.67	1137.38	1136.84
S.C.16+76.76	1139.83	1139.99	1138.69	1137.39	1136.85
17+00	1140.16	1140.32	1139.02	1137.72	1137.18
17+25	1140.49	1140.65	1139.35	1138.05	1137.51
17+50	1140.79	1140.95	1139.65	1138.35	1137.81
17+75	1141.06	1141.22	1139.92	1138.62	1138.08
18+00	1141.30	1141.46	1140.16	1138.86	1138.32
C.S.18+11.69	1141.40	1141.56	1140.26	1138.96	1138.42
18+25	1141.43	1141.61	1140.37	1139.13	1138.61
18+50	1141.45	1141.68	1140.56	1139.44	1138.97
18+75	1141.44	1141.72	1140.72	1139.72	1139.30
19+00	1141.40	1141.73	1140.85	1139.97	1139.55
19+25	1141.33	1141.71	1140.95	1140.19	1139.77
19+50	1141.25	1141.67	1141.03	1140.39	1139.97
19+75	1141.18	1141.60	1141.07	1140.54	1140.12
20+00	1141.08	1141.50	1141.09	1140.68	1140.26
20+06.69	1141.05	1141.47	1141.09	1140.72	1140.30
20+25	1140.99	1141.41	1141.08	1140.71	1140.29
20+50	1140.89	1141.31	1141.04	1140.67	1140.25
20+75	1140.76	1141.18	1140.98	1140.61	1140.19
21+00	1140.60	1141.02	1140.88	1140.51	1140.09
21+25	1140.42	1140.84	1140.76	1140.39	1139.97
21+50	1140.21	1140.63	1140.61	1140.24	1139.82
ST.21+56.69	1140.15	1140.57	1140.57	1140.20	1139.78
21+75	1139.97	1140.39	1140.43	1140.06	1139.64
22+00	1139.71	1140.13	1140.23	1139.86	1139.44
22+25	1139.42	1139.84	1140.00	1139.63	1139.21
22+50	1139.09	1139.51	1139.73	1139.36	1138.94
22+75	1138.74	1139.16	1139.44	1139.07	1138.65
23+00	1138.37	1138.79	1139.13	1138.77	1138.35
23+06.69	1138.26	1138.68	1139.04	1138.68	1138.26

TRANSITION

FULL SUPERELEVATION RATE = 0.054 FT/FT

TRANSITION



RELOCATED MILLERSBURG ROAD

STATION	A	B	℄	D	E
10+00.98	*	*	1141.09	*	*
10+44	*	*	1141.06	*	*
10+50	1141.67	1142.00	1141.11	*	*
10+75	1142.06	1142.34	1141.33	*	*
11+00	1142.45	1142.68	1141.55	*	*
11+25	1142.84	1143.02	1141.77	1140.52	1140.00
11+50	1143.23	1143.36	1141.99	1140.62	1140.05
S.C.11+65.72	1143.47	1143.57	1142.13	1140.69	1140.09
11+75	1143.55	1143.65	1142.21	1140.77	1140.17
12+00	1143.77	1143.87	1142.43	1140.99	1140.39
12+25	1143.99	1144.09	1142.65	1141.21	1140.61
12+50	1144.21	1144.31	1142.87	1141.43	1140.83
12+75	1144.43	1144.53	1143.09	1141.65	1141.05
13+00	1144.65	1144.75	1143.31	1141.87	1141.27
13+25	1144.87	1144.97	1143.53	1142.09	1141.49
13+31.67	1144.93	1145.03	1143.59	1142.15	1141.55
13+50	1145.09	1145.19	1143.75	1142.31	1141.71
13+75	1145.31	1145.41	1143.97	1142.53	1141.93
14+00	1145.53	1145.63	1144.19	1142.75	1142.15
14+25	1145.75	1145.85	1144.41	1142.97	1142.37
C.S.14+26.38	1145.76	1145.86	1144.42	1142.98	1142.38
14+50	1145.80	1145.95	1144.63	1143.28	1142.72
14+75	1145.84	1146.04	1144.85	1143.59	1143.07
15+00	1145.87	1146.13	1145.07	1143.91	1143.43
15+25	1145.91	1146.22	1145.29	1144.23	1143.79
15+50	1145.94	1146.31	1145.51	1144.54	1144.12
15+75	1145.99	1146.41	1145.73	1144.86	1144.44
16+00	1146.08	1146.50	1145.95	1145.17	1144.75
16+25	1146.17	1146.59	1146.17	1145.49	1145.07
16+50	1146.26	1146.68	1146.39	1145.80	1145.38
16+75	1146.35	1146.77	1146.61	1146.12	1145.70
17+00	1146.44	1146.86	1146.83	1146.43	1146.01
S.T.17+06.38	1146.47	1146.89	1146.89	1146.52	1146.10
17+25	1146.58	1147.00	1147.05	1146.68	1146.26
17+50	1146.74	1147.16	1147.27	1146.90	1146.48
17+75	1146.90	1147.32	1147.49	1147.12	1146.70
18+00	1147.07	1147.49	1147.72	1147.35	1146.93
18+25	1147.22	1147.64	1147.94	1147.57	1147.15
18+50	1147.38	1147.80	1148.16	1147.79	1147.37
18+56.38	1147.43	1147.85	1148.22	1147.85	1147.43
18+75	1147.58	1148.00	1148.38	1148.05	1147.63
19+00	1147.80	1148.22	1148.60	1148.34	1147.92
19+25	1148.02	1148.44	1148.82	1148.62	1148.20
19+50	1148.23	1148.65	1149.04	1148.91	1148.49
19+75	1148.45	1148.87	1149.26	1149.19	1148.77
20+00	1148.65	1149.07	1149.47	1149.46	1149.04
20+25	1148.88	1149.30	1149.70	1149.76	1149.34
20+50	1149.10	1149.52	1149.92	1150.04	1149.62
20+75	1149.41	1149.73	1150.14	1150.33	1149.91
21+00	1149.53	1149.95	1150.36	1150.61	1150.19

TRANSITION

FULL SUPERELEVATION RATE = 0.060 FT/FT

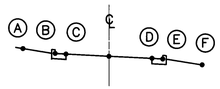
TRANSITION

Ⓐ, Ⓔ – EDGE OF BERM
Ⓑ, Ⓓ – EDGE PAVEMENT
FOR TYPICAL SECTIONS, SEE SHEETS NO. 4–9

* SEE INTERSECTION DETAIL SHEET NO. 218

STATE ROUTE 241

SUPERELEVATION TABLES



PROPOSED S.R. 241
(STA. 127+07.50 TO STA. 158+12.50)

STATION	A	B	C	℄	D	E	F
127+07.5	1017.28		1017.70	1017.89	1017.70		1017.28
127+25	1017.11		1017.53	1017.69	1017.50		1017.08
127+50	1016.87		1017.29	1017.41	1017.22		1016.80
127+75	1016.63		1017.05	1017.13	1016.94		1016.52
128+00	1016.39		1016.81	1016.85	1016.66		1016.24
128+20	1016.21		1016.63	1016.63	1016.44		1016.02
128+25	1016.16		1016.58	1016.57	1016.38		1015.96
128+50	1015.92		1016.34	1016.29	1016.10		1015.68
128+75	1015.68		1016.10	1016.01	1015.82		1015.40
129+00	1015.44		1015.86	1015.73	1015.54		1015.12
129+25	1015.20		1015.62	1015.45	1015.26		1014.84
129+32.5	1015.14		1015.56	1015.37	1015.18		1014.76
129+35	1015.11		1015.53	1015.34	1015.15		1014.73
129+50	1014.94		1015.36	1015.17	1014.98		1014.56
130+00	1014.38		1014.80	1014.61	1014.42		1014.00
130+50	1013.82		1014.24	1014.05	1013.86		1013.44
131+00	1013.26		1013.68	1013.49	1013.30		1012.88
131+50	1012.70		1013.12	1012.93	1012.74		1012.32
132+00	1012.14		1012.56	1012.37	1012.18		*
132+50	1011.58		1012.00	1011.81	1011.62		*
133+00	1011.02		1011.44	1011.25	1011.06		*
133+50	1010.46		1010.88	1010.69	1010.50		1010.08
134+00	1009.90		1010.32	1010.13	1009.94		1009.52
134+50	1009.34		1009.76	1009.57	1009.38		1008.96
135+00	1008.78		1009.20	1009.01	1008.82		1008.40
135+50	1008.22		1008.64	1008.45	1008.26		1007.84
136+00	1007.66		1008.08	1007.89	1007.70		1007.28
136+50	1007.10		1007.52	1007.33	1007.14		1006.72
137+00	1006.54		1006.96	1006.77	1006.58		1006.16
137+50	1005.98		1006.40	1006.21	1006.02		1005.60
138+00	1005.42		1005.84	1005.65	1005.46		1005.04
138+25	1005.12		1005.54	1005.35	1005.16		1004.74
138+50	1004.78		1005.20	1005.01	1004.82		1004.40
138+75	1004.40		1004.82	1004.63	1004.44		1004.02
139+00	1004.00		1004.42	1004.23	1004.04		1003.62
139+25	1003.55		1003.97	1003.78	1003.59		1003.17
139+50	1003.07		1003.49	1003.30	1003.11		1002.69
140+00	1002.09		1002.51	1002.32	1002.13		1001.71
140+50	1001.11		1001.53	1001.34	1001.15		1000.73
141+00	1000.13		1000.55	1000.36	1000.17		999.75
141+50	999.15		999.57	999.38	999.19		998.77
142+00	998.17		998.59	998.40	998.21		997.79
142+50	997.19		997.61	997.42	997.23		996.81
143+00	996.21		996.63	996.44	996.25		995.83
143+50	995.23		995.65	995.46	995.27		994.85
144+00	994.25		994.67	994.48	994.29		993.87
144+50	993.27		993.69	993.50	993.31		992.89
145+00	992.29		992.71	992.52	992.33		991.91
145+50	991.31		991.73	991.54	991.35		990.93
145+75	990.84		991.26	991.07	990.88		990.46
145+95	990.45		990.87	990.68	990.49		990.07
146+00	990.41		990.83	990.64	990.45		990.03

TRANSITION

FULL SUPERELEVATION RATE = 0.016 FT/FT PAVT. WIDTH = 24.0'

STATION	A	B	C	℄	D	E	F
146+25	990.03		990.45	990.25	990.05		989.63
146+50	989.69		990.11	989.90	989.69		989.27
146+75	989.39		989.81	989.59	989.37		988.95
147+00	989.13		989.55	989.32	989.09		988.67
147+50	988.64		989.06	988.82	988.58		988.16
148+00	988.15		988.57	988.31	988.05		987.63
148+50	987.66		988.08	987.81	987.54		987.12
148+95	987.23		987.65	987.36	987.07		986.65
149+00	987.18		987.60	987.31	987.02		986.60
149+50	986.68		987.10	986.81	986.52		986.10
150+00	986.18		986.60	986.31	986.02		985.60
150+50	*		986.09	985.81	985.53		*
151+00		*	985.59	985.31	985.03	*	
151+50		*	985.08	984.80	984.52	*	
152+00		984.62	984.59	984.30	984.01	983.84	
152+50		984.12	984.09	983.80	983.51	983.34	
153+00		983.62	983.59	983.30	983.01	982.84	
153+50		983.12	983.09	982.80	982.51	982.34	
154+00		982.62	982.59	982.30	982.01	981.84	
154+50		982.11	982.08	981.79	981.50	981.33	
155+00		981.61	981.58	981.29	981.00	980.83	
155+50		981.11	981.08	980.79	980.50	980.33	
155+82.5		980.78	980.75	980.46	980.17	980.00	
155+85		980.76	980.73	980.44	980.15	979.98	
155+87.5		980.72	980.69	980.41	980.13	979.96	
156+00		980.56	980.53	980.29	980.01	979.84	
156+25		980.24	980.22	980.04	979.76	979.59	
156+50		979.92	979.91	979.79	979.51	979.34	
156+75		979.61	979.60	979.53	979.25	979.08	
157+00		979.29	979.29	979.29	979.01	978.84	
157+25		978.94	978.98	979.03	978.75	978.58	
157+50		978.59	978.67	978.78	978.50	978.33	
157+75		978.24	978.36	978.53	978.25	978.08	
158+00		977.89	978.05	978.28	978.00	977.83	
158+12.5		977.71	977.88	978.16	977.88	977.71	

TRANSITION

FULL SUPERELEVATION RATE = 0.016 FT/FT PAVT. WIDTH = 36'

PAVT. WIDTH VARIES, 24'-36'

Ⓐ, Ⓕ – EDGE PAVED SHOULDER
Ⓑ, Ⓔ – GUTTER
Ⓒ, Ⓓ – EDGE PAVEMENT
* SEE INTERSECTION DETAILS SHEET NOS. 220 & 222
FOR TYPICAL SECTIONS, SEE SHEET NOS. 4-9

STATE ROUTE 241

GENERAL NOTES

GENERAL

ROUNDING OF CORNERS SHOWN ON CROSS-SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.04 O.R.C.

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

OHIO WATER SERVICE
123 THIRD STREET S.E.
MASSILON, OHIO 44648
216/833-4156

OHIO EDISON COMPANY
76 S. MAIN STREET
AKRON, OHIO 44308
216/384-4631

EAST OHIO GAS COMPANY
7015 FREEDOM AVENUE N.W.
NORTH CANTON, OHIO 44720
216/497-5132

BELDEN BLAKE COMPANY
7555 FREEDOM AVENUE N.W.
NORTH CANTON, OHIO 44720
216/499-1660

OHIO BELL TELEPHONE COMPANY
832 MCKINLEY AVENUE N.W.
CANTON, OHIO 44703
216/489-2632

MASSILLON CABLE TELEVISION
814 CABLE COURT
P.O. BOX 814
MASSILLON, OHIO 44646
216/833-4134

CITY OF MASSILLON
CITY HALL
MASSILLON,OHIO 44646
216/830-1722

STARK COUNTY SANITARY ENGINEERS
STARK COUNTY OFFICE BUILDING
CANTON, OHIO 44705
216/438-9303

STARK COUNTY ENGINEER
5165 SOUTHWAY STREET S.W.
CANTON, OHIO 44706
216/477-6781

ELEVATION DATUM

ALL ELEVATIONS REFER TO U.S.G.S. DATUM - LINE 102, DESIGNATION 305 LOCATED IN MASSILLON, OHIO, ELEVATION 952.764 .

MAILBOX REMOVAL AND REPLACEMENT

THE CONTRACTOR SHALL REMOVE AND RE-ERECT EXISTING MAILBOXES AS PER 107.12 . PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 203.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED " AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

CROWN AT RAILROAD CROSSING

THE CROWN SHALL BE WORKED OUT OF THE PROPOSED FULL-DEPTH PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE CROSSING, BY RAISING THE EDGE OF THE NEW PAVEMENT TO MEET THE RAIL ELEVATION.

ROADWAY

MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON STANDARD CONSTRUCTION DRAWING MC-1. FOR LOCATIONS, SEE SHEETS NO. 266, 267.

PROOF ROLLING

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE TO PROOF ROLL AREAS AS DIRECTED BY THE ENGINEER.

CITY & STATE	STATE
10 HRS.	10 HRS.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM BID PRICE FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED. FOR LOCATIONS, SEE RIGHT OF WAY, SHEETS NO. 279-303.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

SIZES	No. TREES	No. STUMPS	TOTAL
18"	693	0	693
30"	80	0	80
48"	9	0	9

THE ABOVE ESTIMATE IS APPROXIMATE AND THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS SHALL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND REINSTALL GUARDRAIL IN A CONTINOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

REMOVAL AND REPLACEMENT OF UN-SUITABLE OR SOFT AND WET SUBGRADE MATERIALS

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO PROVIDE FOR THE REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS (INCLUDING TOP SOIL WHEREVER IT OCCURS WITHIN 3 FEET BELOW PROPOSED SUBGRADE) AND THE REMOVAL OF SOFT AND WET MATERIALS IN ACCORDANCE WITH 203.04. THE WORK SHALL INCLUDE THE SUBSEQUENT PLACEMENT OF SUITABLE EMBANKMENT COMPACTED AS PER ITEM 203. ALL WORK SHALL BE AS DIRECTED BY THE ENGINEER.

	CITY & STATE	STATE
ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	12,026 CU.YDS.	7,834 CU.YDS.
ITEM 203 - EMBANKMENT	12,026 CU.YDS.	7,834 CU.YDS.

ITEM 203 - BORROW USING GRANULAR MATERIAL, AS PER PLAN

THE FOLLOWING QUANTITY HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THE REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIALS IN THE SWAMPY AREA BETWEEN STA. 99+50 AND STA. 103+50.

	CITY & STATE	STATE
ITEM 203 - BORROW USING GRANULAR MATERIAL, AS PER PLAN	6,248 CU.YDS.	2,640 CU.YDS.
ITEM 203 - BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL	9,766 CU.YDS.	1,471 CU.YDS.

SEE SWAMP TREATMENT DETAIL ON SHEET 238.

PART WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY OF BUILDING PORTIONS OF THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE FULL PAVEMENT WIDTH IN STAGES, EXTREME CARE SHALL BE TAKEN TO PREVENT THE CONSTRUCTION OF A BUTT JOINT ON CENTERLINE IN THE BASE COURSES. LONGITUDINAL JOINTS SHALL BE LAPPED AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-5.

ITEM 603: JACKING PIPE

AS PART OF THIS CONTRACT, IT WILL BE NECESSARY TO INSTALL A 42" CONDUIT UNDER THE EXISTING RAILROAD TRACK AT STATION 177+52.38 BY THE METHOD OF BORING AND JACKING. TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SPECIFICATION REQUIREMENT FOR CLASS B BEDDING SHALL BE DISREGARDED.

ITEM 632: REMOVAL OF TRAFFIC SIGNAL INSTALLATION

WHERE DESIGNATED IN THE PLAN, THE EXISTING TRAFFIC SIGNAL LOCATED AT STATION 182+35 SHALL BE REMOVED AND STORED FOR REMOVAL BY CITY OF MASSILLON FORCES.

ITEM 452 - PLAIN CONCRETE PAVEMENT, AS PER PLAN

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE PRICE BID PER SQUARE YARD AND SHALL INCLUDE PLACEMENT AND SUBSEQUENT REMOVAL PRIOR TO PERMANENT PAVING OF ALL ITEMS AS PER THE TEMPORARY PAVEMENT REPLACEMENT DETAIL ON SHEET 239. THE CONCRETE USED FOR THIS ITEM SHALL BE CLASS FS (499.032) AND SHALL FOLLOW THE REQUIREMENTS OF ITEMS 452 AND 499.

ITEM 304 - AGGREGATE BASE, AS PER PLAN

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG.

AT THE CONTRACTOR'S OPTION, CRUSHED CONCRETE OBTAINED FROM CONCRETE PAVEMENT ON THIS PROJECT OR PROJECTS CONSTRUCTED UNDER ODOT SPECIFICATIONS MAY BE USED FOR ITEM 304 AGGREGATE BASE. ALL CRUSHED CONCRETE PASSING THE NO. 4 SIEVE SHALL BE REPLACED BY MATERIAL OBTAINED FROM APPROVED SOURCES. THE RECYCLED CONCRETE PAVEMENT SHALL NOT CONTAIN MORE THAN 1.0% RECYCLED ASPHALT PAVEMENT. ALL OTHER REQUIREMENTS OF 304 AND 703.04 SHALL APPLY.

BENCHING IN EMBANKMENT FOUNDATION AREAS

ALTHOUGH SPECIAL BENCHING IS SHOWN ON THE CROSS SECTIONS IN SOME EMBANKMENT FOUNDATION AREAS, NO WAIVER OF THE SPECS. IS INTENDED AND OTHER SLOPED FOUNDATION AREAS SHALL BE BENCHED IN ACCORDANCE WITH SECTION 203.09.

GENERAL NOTES

DRAINAGE

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THE CONTRACT.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS UNDER THE DIRECTION OF THE ENGINEER. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT. CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF THE ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY ITEM 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE, IF POSSIBLE, ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL TILE FIELDS WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY ITEM 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

		CITY & STATE	STATE
603	6" CONDUIT, TYPE B	100 LIN. FT.	100 LIN. FT.
603	6" CONDUIT, TYPE E	100 LIN. FT.	100 LIN. FT.
603	6" CONDUIT, TYPE F, 707.17 NON-PERFORATED ASTM 3034 SDR 35 OR SS 931	100 LIN. FT.	100 LIN. FT.
601	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	5 CU. YDS.	5 CU. YDS.

NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

SPRING DRAINS

REFERENCE IS MADE TO THE DETAILED DRAWING ON STANDARD CONSTRUCTION DRAWING MC-1, SHOWING THE METHOD OF DRAINING ANY SPRING THAT MAY BE SHOWN ON THE PLAN, OR ENCOUNTERED DURING CONSTRUCTION, AS DETERMINED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS PURPOSE:

		CITY & STATE	STATE
605	6" UNCLASSIFIED PIPE UNDERDRAIN, 707.01 TYPE III OR 707.21 TYPE III, AS PER PLAN OR 707.15	100 LIN. FT.	100 LIN. FT.
605	AGGREGATE DRAINS FOR SPRINGS	100 LIN. FT.	100 LIN. FT.

THE CONTRACTOR SHALL NOT ORDER MATERIALS FOR "SPRING DRAINS" UNTIL AUTHORIZED BY THE ENGINEER, AND IN THE EVENT NO SPRINGS ARE ENCOUNTERED, THE ITEM SHALL BE NON-PERFORMED.

CORRUGATED STEEL CONDUIT FIELD PAVED AS PER PLAN

THE BOTTOM 1/4 OF THE CIRCUMFERENCE OF THE CONDUIT SHALL BE FIELD PAVED WITH CLASS C PORTLAND CEMENT CONCRETE. THE PAVING SHALL BE REINFORCED WITH 10 GUAGE GALVANIZED WIRE MESH HAVING OPENINGS OF 10" BY 6" (OR COMPARABLE). MESH SHALL HAVE A WIDTH 4" LESS THAN THE FINISHED PAVING. THE MESH SHALL BE SECURELY FASTENED TO THE CONDUIT BY CLIPS, TACK WELDING, OR ANOTHER METHOD APPROVED BY THE ENGINEER. THE MESH SHALL BE SECURED NEAR EACH EDGE AND AT THE CENTER OF THE MESH AT POINTS NOT MORE THAN FOUR FEET APART ALONG THE FLOW LINE OF THE CONDUIT.

THE CONCRETE PAVING SHALL BE 3" THICK MEASURED FROM THE TOP OF THE CORRUGATIONS OF THE CONDUIT. AFTER PLACING, THE CONCRETE SHALL BE STRUCK OFF WITH A TEMPLATE TO PRODUCE THE PROPER RADIUS AND FINISHED WITH A FLOAT TO PRODUCE A SMOOTH FINISH. THE CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH 451.10. THE PAVING SHALL BE PLACED AFTER COMPLETION OF THE FILL OVER THE CONDUIT. WHERE THE DEPTH OF FILL EXCEEDS FOUR FEET OVER THE CROWN OF THE CONDUIT THE PAVING MAY BE PLACED AFTER PLACEMENT OF THE 4 FEET OF FILL. IF THE PAVING IS PLACED PRIOR TO COMPLETION OF THE ENTIRE FILL, ANY GAP BETWEEN THE STEEL CONDUIT AND CONCRETE PAVING SHALL BE CLEANED AND THEN FILLED WITH HEATED BITUMINOUS MATERIAL MEETING 705.04.

THE COST OF THE PAVING MATERIAL, LABOR AND EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEM 603 CONDUIT.

EROSION CONTROL

ITEM 207 - TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS

THE SEDIMENT BASIN QUANTITIES LISTED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON PAGES ARE THE STORAGE VOLUMES REQUIRED FOR THE SEDIMENT BASIN. THE PAY QUANTITY FOR EACH BASIN SHALL BE DETERMINED AS THE ACTUAL AMOUNT OF EXCAVATION OR EMBANKMENT REQUIRED TO PROVIDE THAT STORAGE VOLUME.

ITEM 207 - TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS

THE CONTRACTOR SHALL INSTALL AND MAINTAIN THOSE TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS SHOWN IN THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON PLAN SHEETS . THESE ITEMS SHALL BE INSTALLED UPON COMMENCEMENT OF ANY CLEARING AND/OR EARTHWORK OPERATIONS.

WATERING AND MOWING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 659.09:

		CITY & STATE	STATE
659	WATER	100 M. GAL.	150 M. GAL.
659	MOWING	200 M. SQ. FT.	300 M. SQ. FT.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED BY THE ENGINEER FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

		CITY & STATE	STATE
207	STRAW OR HAY BALES	264 EACH	
207	TEMPORARY SEEDING & MULCHING	22,000 SQ. YDS.	22,000 SQ. YDS.
207	TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS	1,000 CU. YDS.	1,000 CU. YDS.
207	FILTER FABRIC FENCE	250 LIN. FT.	250 LIN. FT.
207	TEMPORARY SLOPE DRAINS	200 LIN. FT.	200 LIN. FT.
601	TYPE C ROCK CHANNEL PROTECTION WITHOUT FILTER	8 CU. YDS.	8 CU. YDS.
659	REPAIR SEEDING & MULCHING	5,500 SQ. YDS.	5,500 SQ. YDS.
659	WATER	50 M. GAL.	50 M. GAL.
659	MOWING	50 M. SQ. FT.	50 M. SQ. FT.
659	COMMERCIAL FERTILIZER	4.7 TON	4.7 TON

THESE QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY.

GN2

GENERAL NOTES

EROSION CONTROL (CONT'D)

EROSION CONTROL

ITEM 659, 601, 670, 839 AND 840 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS, AND TURF OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE 659, 670, 839 OR 840. THE ENGINEER SHALL CHECK AND NON–PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

ITEM 840 – SEEDING AND NYLON FIBER MATTING, AS PER PLAN

SS 839 MAY BE USED IN LIEU OF SS 840.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMIT LINES, AS SHOWN ON THE PLAN SHEETS. QUANTITY CALCULATIONS ARE SUMMARIZED IN THE SEEDING AND MULCHING SUB–SUMMARY, SHEET 41.

ITEM 207 – FILTER FABRIC FENCE

MATERIALS
FILTER FABRIC SHALL MEET THE REQUIREMENT OF ITEM 207.02 .

CONSTRUCTION
THE BOTTOM OF THE FENCE SHALL BE BURIED 6" BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

MAINTENANCE
THE FILTER FABRIC FENCE SHALL, AT THE DIRECTION OF THE ENGINEER, BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR, AND/OR REPLACEMENT OF THE FILTER FABRIC.

PAYMENT
THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 LIN. FT. FILTER FABRIC FENCE.

TREATED SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS (S.R. 241 STA. 11+00 TO STA. 100+30.75)

TREATED SANITARY FLOW MAY BE DISCHARGED INTO THE HIGHWAY DRAINAGE SYSTEM PROVIDED THE OWNER HAS SECURED THE APPROVAL OF THE LOCAL HEALTH AUTHORITIES AND HAS ACQUIRED FROM THE OHIO DEPARTMENT OF TRANSPORTATION, THE OFFICIAL PERMIT TO HAVE THE CONNECTION MADE.

IN EACH CASE WHERE A PERMIT HAS BEEN ISSUED FOR A SANITARY CONNECTION TO BE MADE INTO A HIGHWAY DRAINAGE CONDUIT, IT SHALL BE PROVIDED WITH AN INSPECTION WELL, IN ACCORDANCE WITH THE DETAIL SHOWN ON STANDARD DRAWING MC–8.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY, FOR USE AS DIRECTED BY THE ENGINEER, IN MAKING THE ABOVE DESCRIBED CONNECTIONS:

		STATE
603	6" CONDUIT, TYPE C	200 LIN. FT.
604	INSPECTION WELLS	2 EACH

NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS (S.R. 241 STA. 100+30.75 TO STA. 183+00)

THE PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY EXISTING OR NEW DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM WHEN SUCH DRAINS CARRY FLOW FROM ANY PLUMBING FIXTURES, INCLUDING FLOOR DRAINS, OR DRAINS FROM LIVESTOCK LOTS OR BARNS.

EXISTING PIPE CARRYING FLOW WHICH COMES WITHIN THE CATEGORY OUTLINED ABOVE, SHALL BE PLUGGED WITH CLASS C CONCRETE IN THE RIGHT–OF–WAY LINE. PAYMENT FOR SAID PLUGGING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203–EXCAVATION.

HOUSE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS, DISTURBED BY THE PROPOSED WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASIN, THROUGH THE CURB.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

		CITY & STATE	STATE
ITEM 603	4" CONDUIT TYPE E, 707.19	100 L.F.	100 L.F.
ITEM 603	6" CONDUIT TYPE E, 706.08	100 L.F.	100 L.F.
ITEM 603	8" CONDUIT TYPE F	100 L.F.	100 L.F.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

		CITY & STATE	STATE
ITEM 603	6" CONDUIT, TYPE C, 706.08 WITH JOINTS AS PER 706.12	100 L.F.	100 L.F.
ITEM 603	6" CONDUIT, TYPE B, 706.08 WITH JOINTS AS PER 706.12	100 L.F.	100 L.F.

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNTIL AUTHORIZED BY THE ENGINEER.

SANITARY SEWERAGE NOTES, AS PER PLAN (SEE SEWER DETAILS, SHEET NO. 240)

THE CONTRACTORS' ATTENTION IS CALLED TO 107.02 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SHALL CONTACT MR. MICHAEL S. ARMOGIDA, P.E., STARK COUNTY SANITARY ENGINEER, FOR SPECIFIC CHARGES AND REQUIREMENTS FOR THIS PROJECT. SANITARY SEWER CONSTRUCTION SHALL ONLY BE PERFORMED BY A CONTRACTOR LICENSED BY THE STARK COUNTY UTILITIES DEPARTMENT TO CONSTRUCT SANITARY SEWERS AND APPURTENANCES.

ALL SANITARY SEWER CONSTRUCTION SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE STARK COUNTY SANITARY ENGINEER AND AT ALL TIMES BE SUBJECT TO HIS DIRECT SUPERVISION AND INSPECTION.

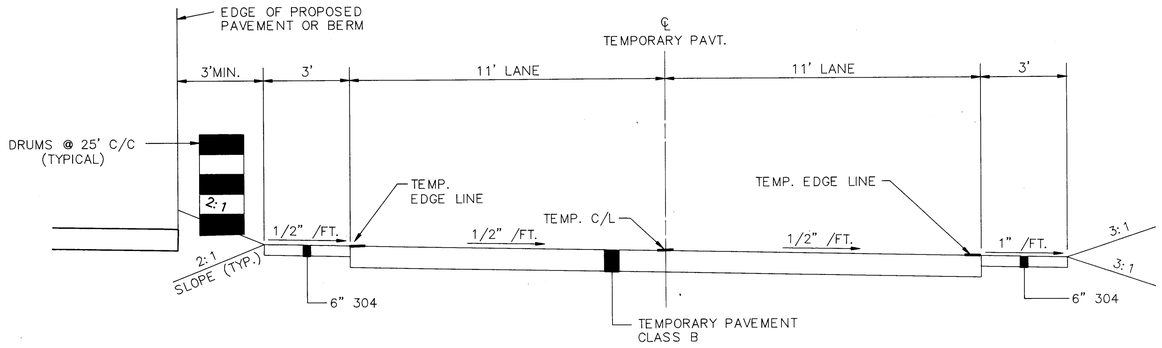
THE CONTRACTOR SHALL PROVIDE THE STARK COUNTY SANITARY ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO BEGINNING SANITARY SEWER WORK TO ARRANGE FOR INSPECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY ALL INSPECTION FEES REQUIRED BY THE STARK COUNTY SANITARY ENGINEER.

SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES BY PUMPING SEWAGE TO THE NEXT AVAILABLE DOWNSTREAM SANITARY MANHOLE.

CALC. BY K.S. DATE 3/91	STA – 241 – 4.22	OHIO	16
CHKD. BY T.K. DATE 3/91		FHWA REGION 5	303

MAINTENANCE OF TRAFFIC

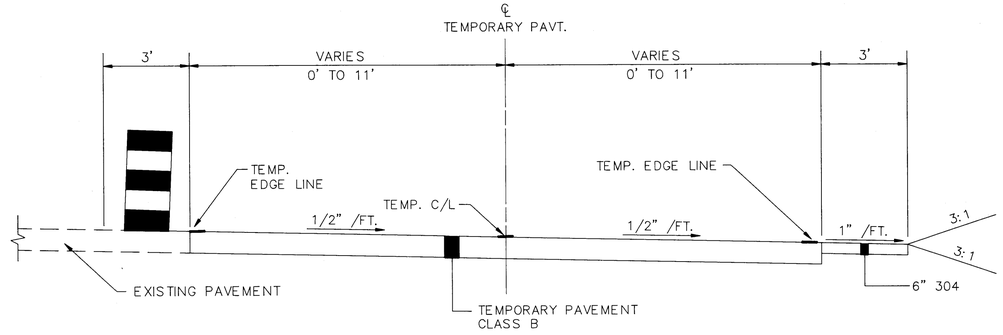
TYPICAL SECTIONS



MAINTENANCE OF TRAFFIC TYPICAL SECTION "A"

(GREENDALE AVE., 9th STREET)

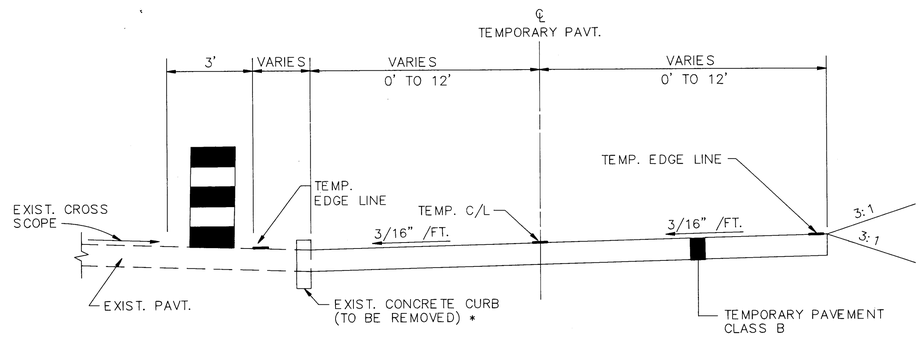
NO SCALE



MAINTENANCE OF TRAFFIC TYPICAL SECTION "B"

(GREENDALE AVE., 9th STREET)

NO SCALE



MAINTENANCE OF TRAFFIC TYPICAL SECTION "C"

(CLEVELAND STREET)

NO SCALE

*CURB TO BE REPLACED UPON COMPLETED USE OF TEMPORARY PAVEMENT

FOR CROSS SECTIONS, SEE SHEETS 187–190, 197–200 & 203–205

FOR MAINTENANCE OF TRAFFIC CONSTRUCTION SECTIONS AND PHASES SEE SHEETS 20 THRU 29

FOR MAINTENANCE OF TRAFFIC GENERAL NOTES SEE SHEETS 17, 18

FOR MAINTENANCE OF TRAFFIC QUANTITIES SEE SHEET 19

MAINTENANCE OF TRAFFIC

NOTIFICATION

THE CONTRACTOR SHALL CONDUCT HIS OPERATION AS TO CONSTRUCT THE PROPOSED IMPROVEMENT WITH A MINIMUM OF HAZARD, DELAY AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAY AFFECTED BY THE WORK BEING DONE UNDER THIS CONTRACT. THROUGH TRAFFIC LANES OF 11 FEET MINIMUM EFFECTIVE WIDTH SHALL BE MAINTAINED AT ALL TIMES.

THE CITY OF MASSILLON POLICE AND FIRE DEPARTMENTS, THE CITY OF MASSILLON BOARD OF EDUCATION, AND THE STARK COUNTY SHERIFF'S OFFICE SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE ACTUAL START OF CONSTRUCTION BY THE CONTRACTOR.

CITY OF MASSILLON POLICE DEPARTMENT
DENNIS D. HARWIG, SR., CHIEF 830–1735

CITY OF MASSILLON FIRE DEPARTMENT
TOMMY R. MATHEWS, CHIEF 833–1053

CITY OF MASSILLON ENGINEERING DEPT.
ROBERT WAGONER, CITY ENGINEER 830–1722

CITY OF MASSILLON DEPARTMENT OF PUBLIC SAFETY AND SERVICE
BILL H. HAMIT, DIRECTOR 830–1702

CITY OF MASSILLON BOARD OF EDUCATION
GARY MILLER, PRESIDENT 830–1810

COUNTY OF STARK SHERIFF'S DEPARTMENT
J. BABE STEARN, SHERIFF 453–8101

TUSCARAWAS TOWNSHIP FIRE DEPARTMENT
ROBERT BAKER, CHIEF 832–7033

TUSLAW SCHOOLS
LINDA CURB, TRANSPORTATION COORDINATOR 837–7815

MATERIAL FOR MAINTAINING TRAFFIC

SIGNS

THE SIGNS SHALL BE NEW OR LIKE NEW AND SUBJECT TO APPROVAL BY THE ENGINEER PRIOR TO THE START OF THE PROJECT. ALL COST FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS OTHER THAN THE DETOUR SIGNS SHOWN ON SHHETS 23, 24 & 27 SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC. SEE SHEET 18 REGARDING DETOUR SIGNS.

ITEM 614 – MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 614. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, TEMPORARY PAVEMENT, COMPLETED PERMANENT PAVEMENT, AND TEMPORARY ROADWAYS SURFACED WITH 410 AGGREGATE AND STABILIZED WITH ITEM 616 CALCIUM CHLORIDE. THE LIMITS AND USE OF TEMPORARY ROADWAYS SHALL BE HELD TO AN ABSOLUTE MINIMUM AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

	CITY & STATE	STATE
ITEM 404 – BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	150 C.Y.	150 C.Y.
ITEM 410 – TRAFFIC COMPACTED SURFACE TYPE C	500 C.Y.	500 C.Y.
ITEM 616 – CALCIUM CHLORIDE	10 TON	10 TON
ITEM 616 – WATER	25 M–GAL.	25 M–GAL.

SEPARATE PAYMENT SHALL BE MADE FOR ITEMS 404, 410 AND 616 NOTED ABOVE. SEPARATE PAYMENT SHALL ALSO BE MADE FOR ITEM 614 – WORK ZONE AND TEMPORARY PAVEMENT MARKINGS, ITEM 615 – TEMPORARY PAVEMENT, ITEM 615 – TEMPORARY ROADS, ITEM SPECIAL – REPLACEMENT SIGNS AND ITEM SPECIAL – REPLACEMENT DRUMS. ALL OTHER WORK REQUIRED FOR TRAFFIC MAINTENANCE SHALL BE INCLUDED WITH PAYMENT FOR ITEM 614 – MAINTAINING TRAFFIC.

ACCESS TO INTERSECTING STREETS

WHEN INTERSECTING STREETS ARE CLOSED AT ROUTE 241, THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, UPON COMPLETION OF THE WORK, SIGNS AND BARRICADES FOR THE PURPOSE OF PROVIDING ADVANCE WARNING OF SUCH CLOSINGS. THE CONTRACTOR SHALL NOTIFY THE POLICE, FIRE, AND SERVICE DEPARTMENTS OF MASSILLON AND THE STARK COUNTY SHERIFF'S DEPARTMENT AT LEAST 72 HOURS BEFORE CLOSING ANY STREETS. THE CONTRACTOR SHALL NOTIFY THE DISTRICT TRAFFIC ENGINEER 18 DAYS PRIOR TO A LANE RESTRICTION AND/OR ROAD CLOSURE.

OHIO DEPARTMENT OF TRANSPORTATION
705 OAKWOOD STREET
RAVENNA, OHIO 44266
PHONE: (216)–297–0801, EXT. 331

PAYMENT FOR LABOR AND EQUIPMENT REQUIRED FOR THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 – MAINTAINING TRAFFIC.

REPLACEMENT SIGNS

FLAT SHEET SIGNS FOR MAINTENANCE OF TRAFFIC PURPOSES FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENT OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED FOR REASON BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE PRICE BID PER SQUARE FOOT FOR ITEM SPECIAL – REPLACEMENT SIGNS AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED SIGNS, HARDWARE SUPPORTS, ETC. REPLACEMENT SIGNS SHALL BE NEW BUT OTHER MATERIALS MAY BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.

AN ESTIMATED QUANTITY OF ITEM SPECIAL – REPLACEMENT SIGNS HAS BEEN CARRIED TO THE GENERAL SUMMARY.

		CITY & STATE	STATE
ITEM SPECIAL	REPLACEMENT SIGNS	50 S.F.	50 S.F.

REPLACEMENT DRUMS

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENT OF THE PLANS AND SPECIFICATION WHICH BECOME DAMAGED FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER AND PAID FOR UNDER ITEM SPECIAL – REPLACEMENT DRUMS. PAYMENT FOREACH DRUM SHALL INCLUDE 1) THE COST OF REMOVING AND DISPOSING THE DAMAGED DRUM, AND 2) PROVIDING, MAINTAINING AND REMOVING NEW DRUMS IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM. (REPLACEMENT LIGHTS SHALL NOT BE PAID FOR SEPARATELY BUT CONSIDERED INCIDENTAL TO THIS ITEM OR ITEM 614 – MAINTAINING TRAFFIC.) AN ESTIMATED QUANTITY OF ITEM SPECIAL – REPLACEMENT DRUMS HAS BEEN CARRIED TO THE GENERAL SUMMARY.

		CITY & STATE	STATE
ITEM SPECIAL	REPLACEMENT DRUMS	25 EACH	25 EACH

MAINTENANCE OF TRAFFIC

THE CONTRACTOR MAY WORK ON ANY ADJACENT CONSTRUCTION SECTIONS WITHIN THE FOLLOWING CONDITIONS:

1. CONSTRUCTION ON 6TH STREET AND 9TH STREET SHALL NOT OCCUR SIMULTANEOUSLY.
2. 17TH STREET SHALL BE CONSTRUCTED WITHIN THE FIRST CONSTRUCTION SEASON. OBERLIN ROAD MUST REMAIN OPEN FOR THROUGH TRAFFIC BETWEEN 9TH STREET AND 17TH STREET WHILE 17TH STREET IS CLOSED.
3. DEERFORD ROAD SHOULD NOT BE TAKEN OUT OF SERVICE PRIOR TO COMPLETION OF SECTION 1 IN ORDER TO MAINTAIN ACCESS TO THE GAS/OIL WELL AT STATION 23+00, RT. S.R. 241 AT ALL TIMES.
4. PRIOR TO CONSTRUCTING THE CLEVELAND STREET INTERSECTION, THE 42" STORM SEWER SHALL BE INSTALLED. IN ADDITION ALL WORK ON 6TH STREET AND S.R. 241 FROM STATION 165+00 TO STATION 181+75 SHALL BE COMPLETE.
5. ALL WORK ON THE CLEVELAND STREET INTERSECTION, PHASES A, B, AND C SHALL BE COMPLETED WITHIN THREE (3) CONSECUTIVE WEEKS.

TWO–WAY TRAFFIC ON GREENDALE AVENUE AND NINTH STREET SHALL BE MAINTAINED THROUGH USE OF TEMPORARY RUN–AROUND PAVEMENT. SEE PLAN ON SHEET NO. 22.

17TH STREET

CLOSE 17TH STREET TO THRU TRAFFIC DURING CONSTRUCTION. SEE DETOUR PLAN ON SHEET NO. 23.

6TH STREET

CLOSE 6TH STREET TO THRU TRAFFIC DURING CONSTRUCTION. SEE DETOUR PLAN ON SHEET NO. 24.

ALL DETOUR SIGNS SHOWN ON SHEETS 23, 24 & 27 SHALL BE FURNISHED BY THE CONTRACTOR AND THE COST SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 – MAINTAINING TRAFFIC. THE CITY OF MASSILLON SHALL ERECT, MAINTAIN, AND SUBSEQUENTLY REMOVE SAID SIGNS. SAID SIGNS SHALL BECOME THE PROPERTY OF THE CITY OF MASSILLON.

CLEVELAND STREET – PHASE A

THE 42" STORM SEWER SHALL BE INSTALLED MAINTAINING TWO–WAY TRAFFIC THROUGH USE OF EXISTING PAVEMENT AND/OR TEMPORARY ROADS AND FLAGGERS AS NEEDED. THE CONTRACTOR SHALL COORDINATE HIS SCHEDULE WITH THAT OF REPUBLIC STEEL SO THAT THE SEWER INSTALLATION IS PERFORMED DURING A MINIMAL TRAFFIC PERIOD. THE STORM SEWER TRENCH SHALL BE REPAIRED AS PER THE TEMPORARY PAVEMENT REPLACEMENT DETAIL SHOWN ON SHEET 239.

CONSTRUCT ITEM 410 TEMPORARY RAMP FOR GRADE CHANGE AS SHOWN ON THE PLANS.

INSTALL TEMPORARY TRAFFIC CONTROL AS SHOWN ON PLANS. MAINTAIN TWO–WAY TRAFFIC ON TWO (2) TWELVE FOOT (12') MINIMUM LANES ON THE SOUTH SIDE OF S.R. 241 USING THE EXISTING AND PERMANENT PAVEMENT AND TEMPORARY RAMP. CLEVELAND STREET NORTH OF S.R. 241 SHALL BE CLOSED FOR CONSTRUCTION OF THIS PHASE. FOR DETOUR PLAN, SEE SHEET 27.

CONSTRUCT NORTH HALF OF INTERSECTION AS SHOWN ON THE PLAN.

CLEVELAND STREET – PHASE B

CONSTRUCT ITEM 410 TEMPORARY RAMP FOR GRADE CHANGE TO MEET NEW CENTERLINE PROFILE.

CONSTRUCTION OF TEMPORARY PAVEMENT AS SHOWN ON THE PLAN FOR PHASE B WILL REQUIRE THE REMOVAL AND REPLACEMENT OF THE EXISTING CONCRETE CURB, SIDEWALK, AND FENCE FROM STATION 2+25 TO STATION 3+85, RT. DRAINAGE TO THE EXISTING CATCH BASIN AT STATION 3+52, 16' RT. SHALL BE MAINTAINED AT ALL TIMES.

PAYMENT FOR THE ABOVE WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE FOLLOWING ITEMS WHICH HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR MAINTENANCE OF TRAFFIC:

		CITY & STATE
ITEM 202	CURB REMOVED	160 L.F.
ITEM 202	WALK REMOVED	700 S.F.
ITEM 202	FENCE REMOVED	185 L.F.

CONSTRUCT SOUTHWEST QUADRANT OF INTERSECTION MAINTAINING TWO–WAY TRAFFIC AS SHOWN ON THE PLANS.

CLEVELAND STREET – PHASE C

MAINTAIN TWO–WAY TRAFFIC ON THE PERMANENT PAVEMENT CONSTRUCTED IN PHASES A AND B.

CONSTRUCT SOUTHEAST QUADRANT OF INTERSECTION AS SHOWN.

REMOVE ALL TEMPORARY PAVEMENT. REPLACE ALL CURB REMOVED OUTSIDE PERMANENT WORK WITH TYPE 6 CURB. ADJUST CATCH BASIN AT STA. 3+52, 16' RT. REPLACE ALL WALK REMOVED FOR TEMPORARY PAVEMENT. REPLACE FENCE REMOVED BY TEMPORARY PAVEMENT. REPLACE PORTION OF GRAVEL PARKING LOT REMOVED FOR TEMPORARY PAVEMENT STA. 2+70 TO STA. 4+00, RT. PAYMENT FOR THE ABOVE WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE FOLLOWING ITEMS WHICH HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR MAINTAINENCE OF TRAFFIC.

		CITY & STATE
ITEM 411	8" STABILIZED CRUSHED AGGREGATE	11 C.Y.
ITEM 604	CATCH BASIN ADJUSTED TO GRADE	1 EACH
ITEM 607	FENCE, TYPE CL	185 L.F.
ITEM 608	4" CONCRETE WALK	700 S.F.
ITEM 609	CURB, TYPE 6	160 L.F.

MAINTENANCE OF TRAFFIC SUB-SUMMARY

WORK ZONE PAVEMENT MARKINGS SUB-SUMMARY

SECTION	PHASE	SIDE	STA. TO STA.	614 TEMPORARY 4" EDGE LINE WHITE CLASS I 740.05 TYPE C CITY & STATE MILES	614 TEMPORARY 4" EDGE LINE WHITE CLASS I 740.05 TYPE C STATE MILES	614 TEMPORARY 4" DOUBLE YELLOW CENTERLINES CLASS I 740.05 TYPE C STATE MILES	614 TEMPORARY STOP LINES CLASS I 740.05 TYPE C CITY & STATE LIN.FT.	614 TEMPORARY STOP LINES CLASS I 740.05 TYPE C STATE LIN.FT.	614 TEMPORARY 4" EDGE LINE WHITE CLASS I 642 PAINT CITY & STATE MILES	614 TEMPORARY 4" EDGE LINE WHITE CLASS I 642 PAINT STATE MILES	614 TEMPORARY 4" DOUBLE YELLOW CENTERLINE CLASS I 642 PAINT STATE MILES	614 TEMPORARY STOP LINE CLASS I 642 PAINT CITY & STATE LIN.FT.	614 TEMPORARY 4" DOUBLE YELLOW CENTERLINE CLASS II 642 PAINT CITY & STATE MILES	614 TEMPORARY 4" DOUBLE YELLOW CENTERLINE CLASS II 642 PAINT STATE MILES	614 TEMPORARY 4" DOUBLE YELLOW CENTERLINE CLASS II 740.05 TYPE C CITY & STATE MILES	614 TEMPORARY CHANNELIZING LINES CLASS I 740.05 TYPE C STATE LIN. FT.	614 TEMPORARY ARROWS CLASS I 740.05 TYPE C STATE EACH	614 TEMPORARY WORD "ONLY" ON PAVEMENT 12 INCH CLASS I 740.05 TYPE C STATE EACH
1	A	RT.	STA. 3+50 TO STA. 12+00 (S.R. 241)		850														
1	A	LT.	STA. 9+25 TO STA. 11+00 (S.R. 241)			175													
1	A	LT.	STA. 11+00 (S.R.241) TO STA. 21+50 (MILLERSBURG RD.)								1,950								
1	A	LT.	STA. 15+00 (S.R.241) TO STA. 21+50 (MILLERSBURG RD.)							1,565									
1	A	LT.	STA. 21+50 TO STA. 27+00 (MILLERSBURG RD.)		550														
1	A	LT., ℄	STA. 22+00 TO STA. 27+00 (MILLERSBURG RD.)		500														
			SUBTOTAL SECTION 1 PHASE A	–	1,900 L.F.	175 L.F.	–	–	–	1,565 L.F.	1,950 L.F.	–	–	–	–	–	–	–	–
1	B	RT.	STA. 9+25 TO STA. 9+50 (S.R. 241)		25														
1	B	RT.	STA. 10+15 TO STA. 11+00 (S.R. 241)		170														
1	B	RT.	STA. 7+50 TO STA. 9+50 (S.R. 241)														200		
1	B	RT.	STA. 11+00 (S.R.241) TO STA. 25+00 (MILLERSBURG RD.)			2,420													
1	B	℄ RT., LT.	STA. 11+00 (S.R.241) TO STA. 31+00 (MILLERSBURG RD.)		3,005														
1	B	RT.	STA. 7+85 (S.R. 241)															1	
1	B	RT.	STA. 8+40 (S.R. 241)																1
1	B	RT.	STA. 19+90 (S.R. 241)					12											
1	B	RT.	STA. 10+85 (MILLERSBURG RD.)					12											
1	B	RT.	STA. 9+00 (S.R. 241)															1	
1	B	RT.	STA. 11+00 (S.R.241) TO STA. 21+50 (MILLERSBURG RD.)		2,095														
			SUBTOTAL SECTION 1 PHASE B	–	5,295 L.F.	2,420 L.F.	–	24 L.F.	–	–	–	–	–	–	–	–	200 L.F.	2 EACH	1 EACH
2	–	RT.	STA. 7+50 TO STA. 13+50 (GREENDALE AVE.)							605									
2	–	RT.	STA. 7+50 TO STA. 13+00 (GREENDALE AVE.)												555				
2	–	RT., LT.	STA. 8+00 TO STA. 13+00 (GREENDALE AVE.)							505									
			SUBTOTAL SECTION 2	–	–	–	–	–	–	1,110 L.F.	–	–	–	555 L.F.	–	–	–	–	–
3	–	RT.	STA. 6+70 TO STA. 13+30 (9TH ST.)						665				665						
3	–	RT., LT.	STA. 7+00 TO STA. 13+00 (9TH ST.)						605										
			SUBTOTAL SECTION 3	–	–	–	–	–	1,270 L.F.	–	–	–	665 L.F.	–	–	–	–	–	–
6	A	RT.	STA. 179+05 TO STA. 181+50 (S.R. 241)	245															
6	A	LT.	STA. 180+75 TO STA. 181+75 (S.R. 241)	105															
6	A	RT.	STA. 181+50 TO STA. 181+75 (S.R. 241)													25			
6	A	RT.	STA. 182+60 TO STA. 184+50 (S.R. 241)													190			
6	A	RT.	STA. 181+75 TO STA. 183+02 (S.R. 241)						127										
6	A	RT., LT.	STA. 183+02 TO STA. 187+50 (S.R. 241)	450															
6	A	℄	STA. 3+85 TO STA. 4+30 (CLEVELAND ST.)										50						
6	A	RT.	STA. 4+35 (CLEVELAND ST.)									18							
			SUBTOTAL SECTION 6 PHASE A	800 L.F.	–	–	–	–	127 L.F.	–	–	18 L.F.	50 L.F.	–	215 L.F.	–	–	–	
6	B	RT.	STA. 2+25 TO STA. 4+78 (CLEVELAND ST.)						255										
6	B	RT.	STA. 2+25 TO STA. 4+70 (CLEVELAND ST.)													247			
6	B	RT.	STA. 3+47 TO STA. 6+00 (CLEVELAND ST.)	260															
6	B	RT.	STA. 4+70 (CLEVELAND ST.)									12							
6	B	RT., LT.	STA. 5+32 (CLEVELAND ST.)				12												
6	B	RT., ℄	STA. 5+32 TO STA. 6+60 (CLEVELAND ST.)													128			
			SUBTOTAL SECTION 6 PHASE B	260 L.F.	–	–	12 L.F.	–	255 L.F.	–	–	12 L.F.	–	–	375 L.F.	–	–	–	
6	C	LT., RT.	STA. 182+65 TO STA. 184+00 (S.R. 241)	140															
6	C	LT.	STA. 182+65 TO STA. 183+02 (S.R. 241)													38			
6	C	LT.	STA. 183+02 TO STA. 186+00 (S.R. 241)	299															
6	C	RT., LT.	STA. 3+00 TO STA. 4+53 (CLEVELAND ST.)	156												150			
6	C	LT.	STA. 3+00 TO STA. 4+48 (CLEVELAND ST.)																
6	C	LT.	STA. 4+12 TO STA. 5+90 (CLEVELAND ST.)	155															
6	C	LT.	STA. 4+50 (CLEVELAND ST.)				12												
6	C	LT.	STA. 5+60 (CLEVELAND ST.)				32												
6	C	℄	STA. 5+50 TO STA. 6+60 (CLEVELAND ST.)													110			
			SUBTOTAL SECTION 6 PHASE C	750 L.F.	–	–	44 L.F.	–	–	–	–	–	–	–	298 L.F.	–	–	–	
GRAND TOTAL TEMPORARY PAVEMENT MARKINGS				1,810 L.F.	7,195 L.F.	2,595 L.F.	56 L.F.	24 L.F.	1,652 L.F.	2,675 L.F.	1,950 L.F.	30 L.F.	715 L.F.	555 L.F.	888 L.F.	200 L.F.	2 EACH	1 EACH	
GRAND TOTAL TEMPORARY PAVEMENT MARKINGS				0.34 MILES	1.36 MILES	0.49 MILES	56 L.F.	24 L.F.	0.31 MILES	0.51 MILES	0.37 MILES	30 L.F.	0.14 MILES	0.10 MILES	0.17 MILES	200 L.F.	2 EACH	1 EACH	

TEMPORARY PAVEMENT SUB-SUMMARY

SECTION	PHASE	SIDE	STA. TO STA.	LENGTH	AVG. WIDTH	304 AGGREGATE BERM (3' WIDE) x 6" THICK CITY & STATE CU.YDS.	304 AGGREGATE BERM (3' WIDE) x 6" THICK STATE CU.YDS.	615 TEMPORARY PAVEMENT, CLASS B CITY & STATE SQ.YDS.	615 TEMPORARY PAVEMENT, CLASS B STATE SQ.YDS.	615 TEMPORARY ROADS CITY & STATE LUMP SUM	615 TEMPORARY ROADS STATE LUMP SUM
2	–	RT.	STA. 7+50 TO STA. 13+50 (GREENDALE AVE.)	600'	16.6'		33.3		1109		
2	–	RT.	STA. 8+65 TO STA. 11+90 (GREENDALE AVE.)	325'	3.0'		18.1		–		
			SUBTOTAL SECTION 2			–	51.4	–	1,109	LUMP	LUMP
3	–	RT.	STA. 6+70 TO STA. 13+30 (9TH ST.)	660'	17.3'	36.7		1,266			
3	–	RT.	STA. 8+15 TO STA. 11+80 (9TH ST.)	365'	3.0'	20.3		–			
			SUBTOTAL SECTION 3			57.0	–	1,266	–	LUMP	LUMP
6	A	RT.	STA. 2+25 TO STA. 4+78 (CLEVELAND ST.)	253'	16.8'		473		473		
			SUBTOTAL SECTION 6 PHASE B			–	–	380	–	LUMP	LUMP
			GRAND TOTAL TEMPORARY PAVEMENT			57	52	1,646	1,109	LUMP	LUMP

241TPM

CALC. BY KJS DATE 3/91	STA-241-4.22	OHIO
CHKD. BY TSK DATE 3/91		FHWA REGION 5

MAINTENANCE OF TRAFFIC

SECTION 1 – PHASE A

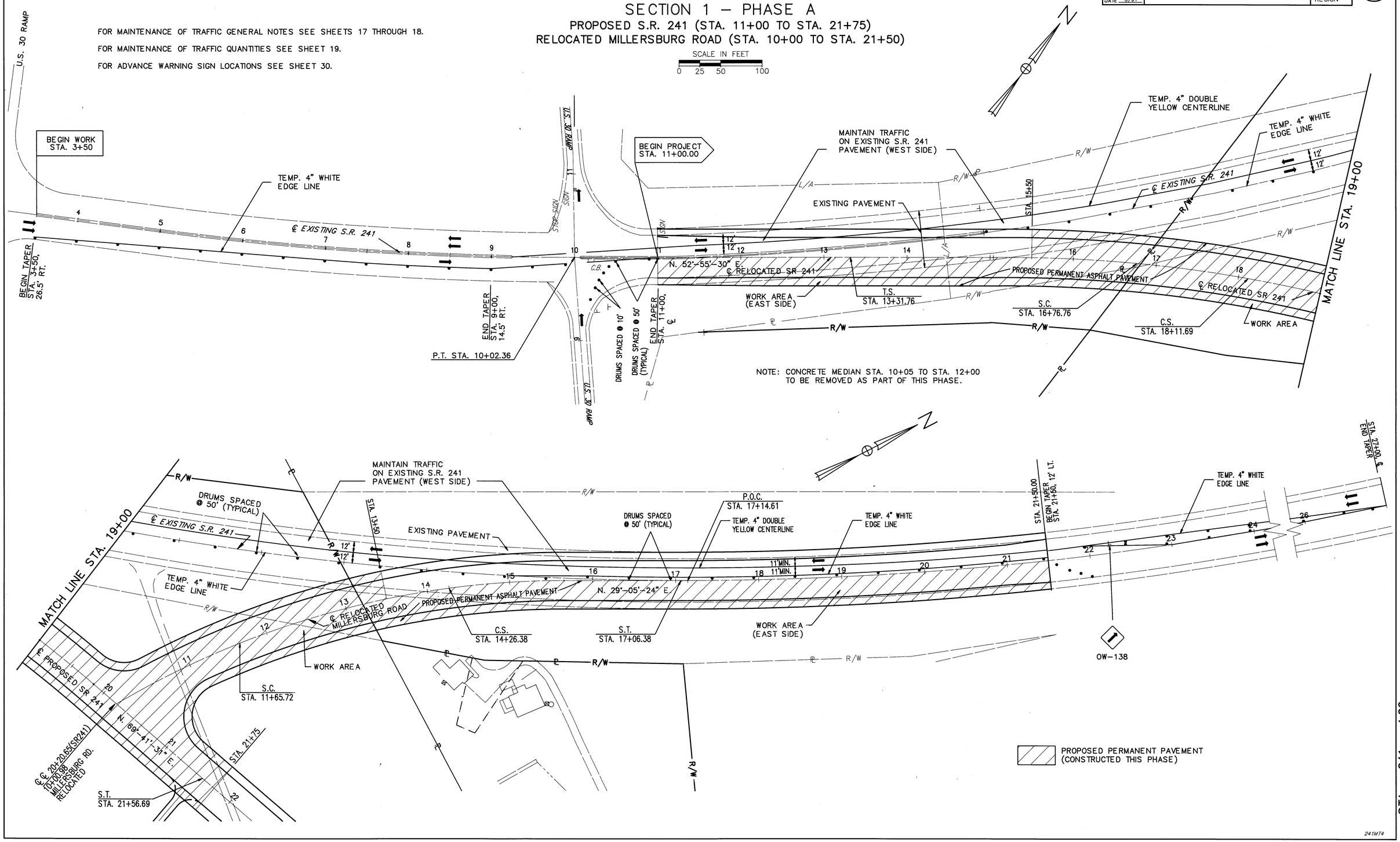
PROPOSED S.R. 241 (STA. 11+00 TO STA. 21+75)
RELOCATED MILLERSBURG ROAD (STA. 10+00 TO STA. 21+50)

SCALE IN FEET
0 25 50 100

FOR MAINTENANCE OF TRAFFIC GENERAL NOTES SEE SHEETS 17 THROUGH 18.

FOR MAINTENANCE OF TRAFFIC QUANTITIES SEE SHEET 19.

FOR ADVANCE WARNING SIGN LOCATIONS SEE SHEET 30.



241MT4

CALC. BY KJS DATE 3/91	STA-241-4.22	OHIO	21
CHKD. BY TSK DATE 3/91		FHWA REGION 5	303

MAINTENANCE OF TRAFFIC

SECTION 1 – PHASE B

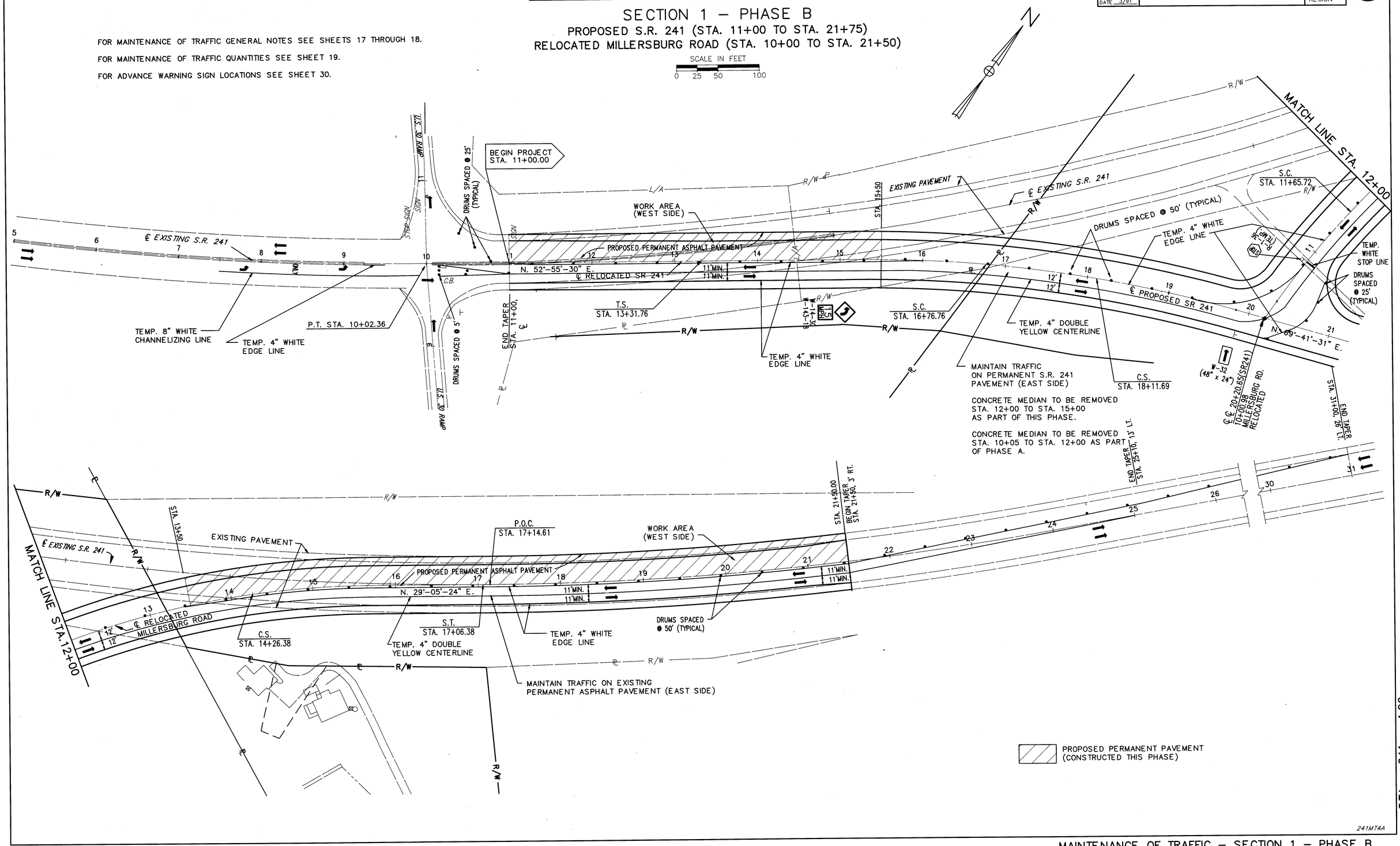
PROPOSED S.R. 241 (STA. 11+00 TO STA. 21+75)
RELOCATED MILLERSBURG ROAD (STA. 10+00 TO STA. 21+50)

FOR MAINTENANCE OF TRAFFIC GENERAL NOTES SEE SHEETS 17 THROUGH 18.

FOR MAINTENANCE OF TRAFFIC QUANTITIES SEE SHEET 19.

FOR ADVANCE WARNING SIGN LOCATIONS SEE SHEET 30.

SCALE IN FEET
0 25 50 100



241MT4A

STA – 241 – 4.22

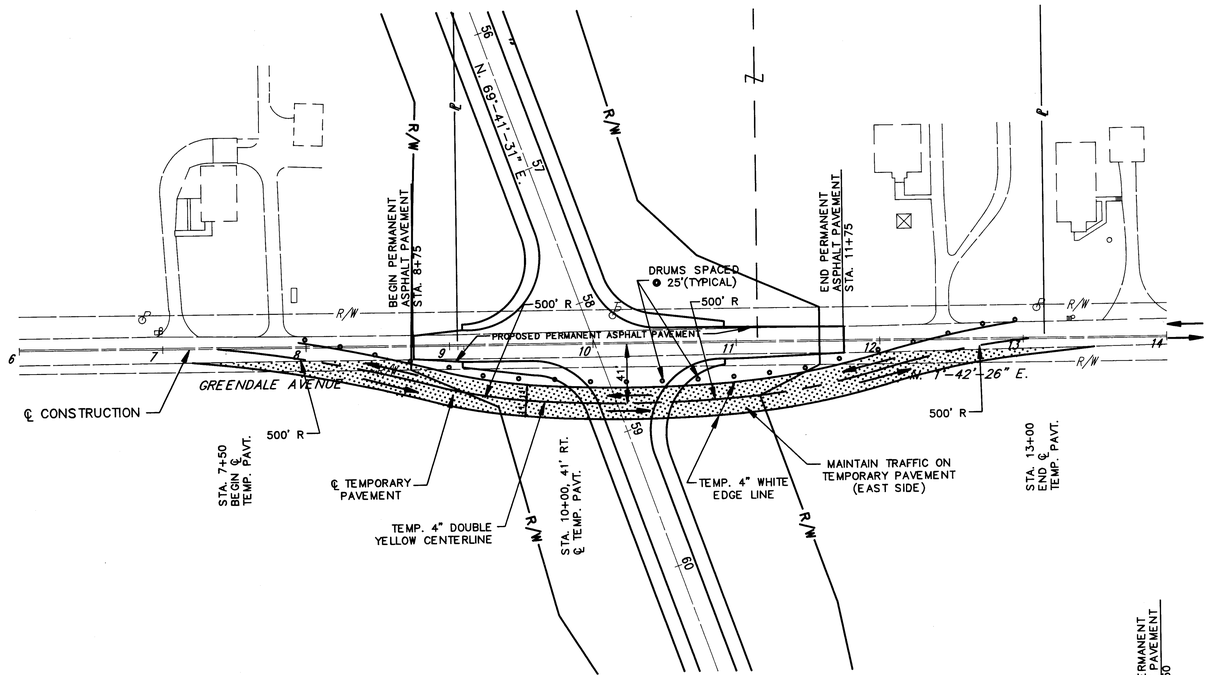
MAINTENANCE OF TRAFFIC – SECTION 1 – PHASE B

CALC. BY K.S. DATE 3/91	STA–241–4.22	OHIO
CHKD. BY T.K. DATE 3/91		FHWA REGION 5

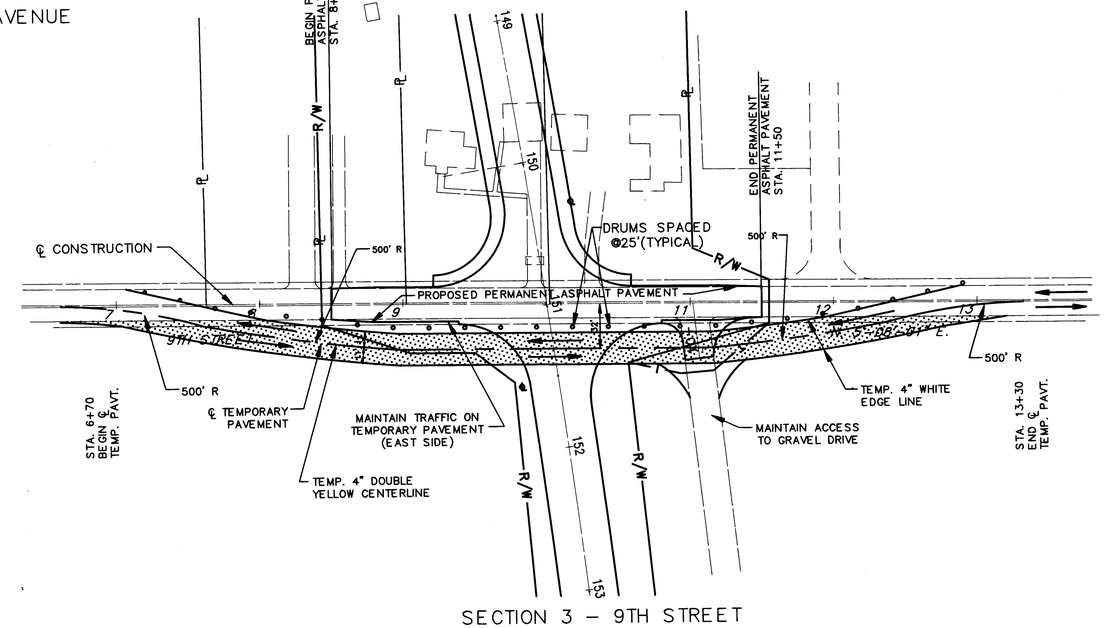
22
303

MAINTENANCE OF TRAFFIC

SCALE IN FEET
0 25 50 100



SECTION 2 – GREENDALE AVENUE



SECTION 3 – 9TH STREET

FOR CROSS SECTIONS, SEE SHEETS 187–190, 197–200.
FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEE SHEETS 17, 18.
FOR TEMPORARY PAVEMENT TYPICAL SECTIONS, SEE SHEET 16.
FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEET 19.
FOR ADVANCE WARNING SIGN LOCATIONS, SEE SHEET 30.

TEMPORARY PAVEMENT

CONSTRUCTION SEQUENCE

1. CONSTRUCT TEMPORARY PAVEMENT AS SHOWN WHILE MAINTAINING TRAFFIC ON EXISTING PAVEMENT.
2. INSTALL TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE PLANS.
3. MAINTAIN TWO WAY TRAFFIC ON EXISTING AND TEMPORARY PAVEMENT WHILE INTERSECTION IS CONSTRUCTED.

241MOT

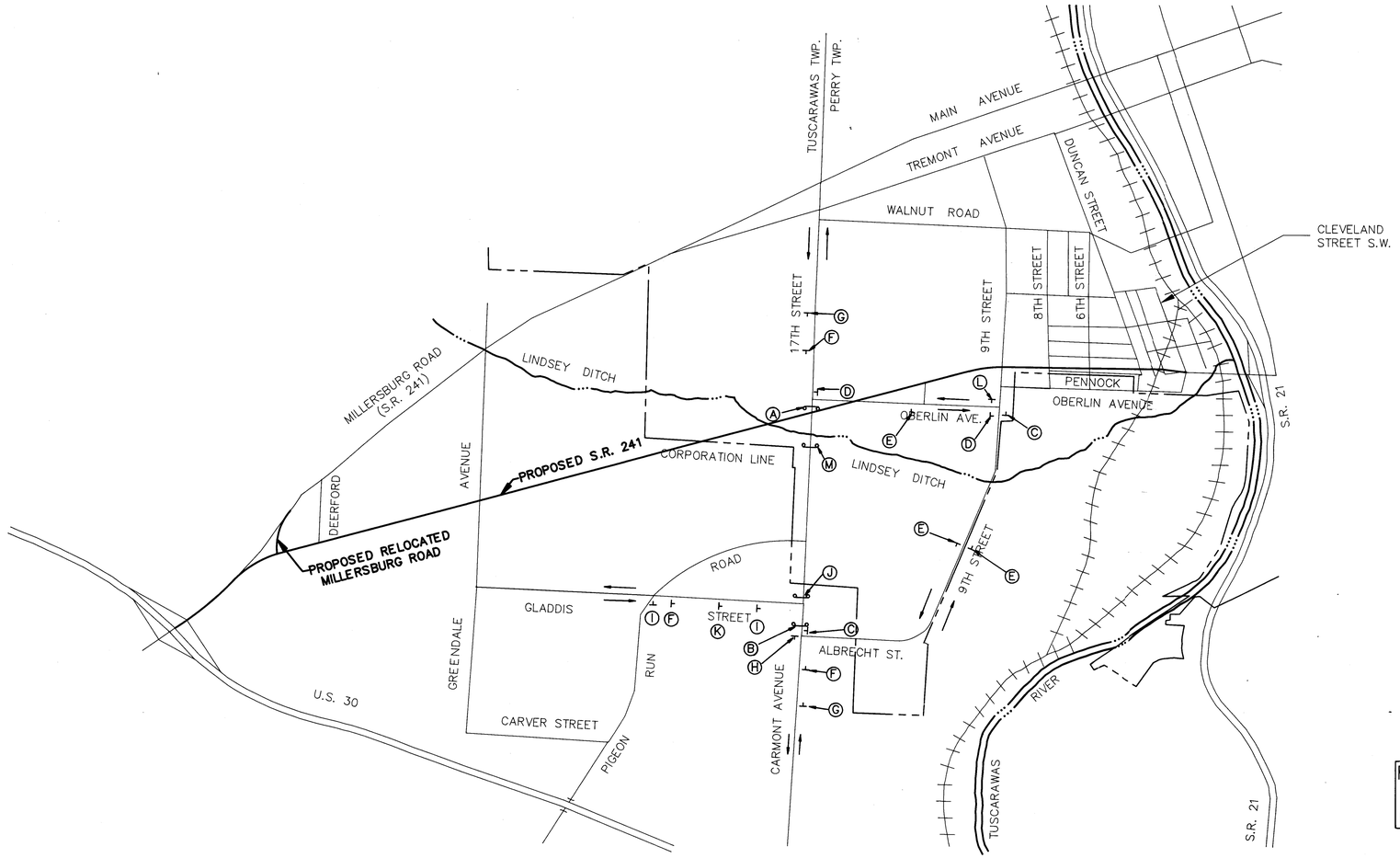
STA – 241 – 4.22

MAINTENANCE OF TRAFFIC, SECTION 2, SECTION 3

CALC. BY KJS DATE 3/91	STA-241-4.22	OHIO	23
CHKD. BY TSK DATE 3/91		FHWA REGION 5	303

MAINTENANCE OF TRAFFIC

SECTION 4
17TH STREET
DETOUR PLAN
NO SCALE



N

SIGNING LEGEND

DETOUR

ROAD CLOSED — R-75
DETOUR — OC-14L
Ⓐ

R-76C
ROAD CLOSED TO THRU TRAFFIC
DETOUR
OC-14R
Ⓑ

17TH STREET — D-14-30
DETOUR
OC-29L
Ⓒ

17TH STREET — D-14-30
DETOUR
OC-29R
Ⓓ

17TH STREET — D-14-30
DETOUR
OC-29
Ⓔ

DETOUR AHEAD — OW-127-36
Ⓕ

ROAD CLOSED AHEAD — OW-120-36
Ⓖ

17TH STREET — D-14-30
NORTH — D-14-30
DETOUR
OC-29L
Ⓗ

17TH STREET — D-14-30
NORTH — D-14-30
DETOUR
OC-29R
Ⓘ

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY
R-76A
Ⓙ

SPEC. 48" X 24"
17TH STREET
NORTH
CLOSED
USE DETOUR
Ⓚ

17TH STREET — D-14-30
SOUTH — D-14-30
DETOUR
OC-29
Ⓛ

ROAD CLOSED — R-75
Ⓜ

241MTDP

STA. - 241 - 4.22

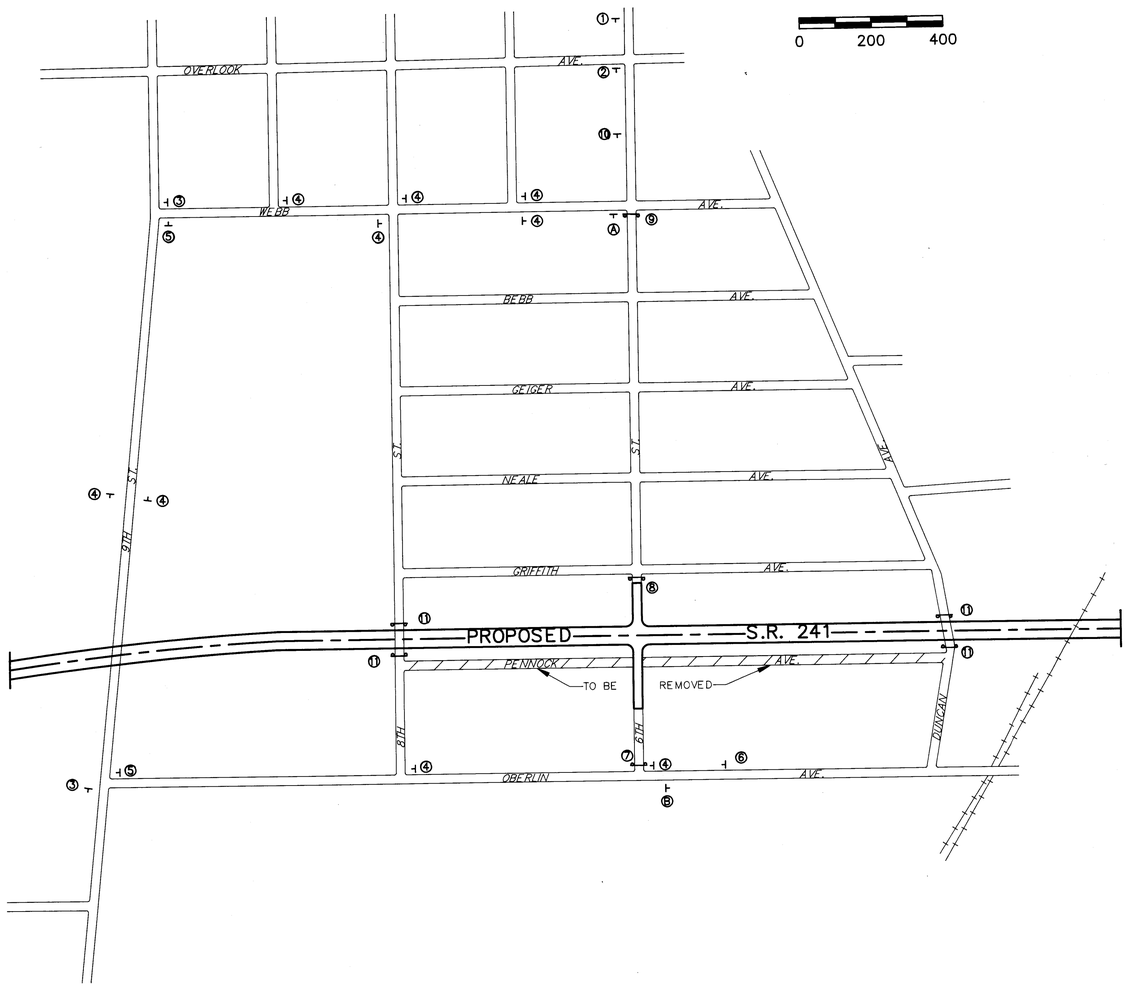
CALC. BY KJS DATE 3/91	STA – 241 – 4.22	OHIO
CHKD. BY TSK DATE 3/91		FHWA REGION

MAINTENANCE OF TRAFFIC

SECTION 5
6TH STREET
DETOUR PLAN

SCALE IN FEET

0 200 400



N

SIGNING LEGEND

ADVANCE WARNING

(A) ROAD CONSTRUCTION AHEAD
OW–128–36

(B) END CONSTRUCTION
OC–8

DETOUR

(1) DETOUR AHEAD
OW–127–36

(2) 6TH STREET CLOSED AT GRIFFITH AVE. USE DETOUR
SPEC. 48" X 24"

(3) 6TH STREET
DETOUR ←
D–14–30
OC–29L

(4) 6TH STREET
DETOUR ↑
D–14–30
OC–29

(5) 6TH STREET
DETOUR →
D–14–30
OC–29R

(6) 6TH STREET CLOSED AT OBERLIN AVE. USE DETOUR
SPEC. 48" X 24"

(7) ROAD CLOSED
LOCAL TRAFFIC ONLY
SPEC. 48" X 24"

(8) ROAD CLOSED
LOCAL ACCESS ONLY
SPEC. 48" X 24"

(9) ROAD CLOSED AT GRIFFITH AVE. LOCAL TRAFFIC ONLY
DETOUR
SPEC. 48" X 24"
OC–14R

(10) 6TH STREET
DETOUR ↱
D–14–30
OC–29R (MOD.)

(11) ROAD CLOSED
R–75

CALC. BY K.S. DATE 3/91	STA-241-4.22	OHIO
CHKD. BY T.K. DATE 3/91		FHWA REGION 5

25
303

MAINTENANCE OF TRAFFIC

SECTION 6 – PHASE A
CLEVELAND STREET

SCALE IN FEET

0 20 40

N

PHASE A

PROPOSED PERMANENT PAVEMENT (CONSTRUCTED THIS PHASE)

TEMPORARY ROAD (CONSTRUCTED THIS PHASE)

℄ CURVE DATA
R = 7640.00'
Δ = 1°49'28"
L = 243.29'
T = 121.65'
C = 243.27'
S. 88°43'13" E.

PT. STA. 179+59.52

℄ RELOCATED S.R. 241

S. 89°-37'-57" E.

179 180 181 182 183

+48 +75

R/W

TEMPORARY 4" WHITE EDGE LINES

EXISTING PERMANENT ASPHALT PAVEMENT

END PERMANENT ASPHALT PAVEMENT STA. 6+60

CLEVELAND STREET S.W. 50' N. 22°-06'-28" W.

WORK AREA 9

END PROJECT STA. 183+01.95

BEGIN TAPER STA. 183+01.95, 3' RT.

TEMPORARY 4" WHITE EDGE LINE

MATCH LINE STA. 184+00

12' MIN.

DRUMS SPACED @ 25' (TYPICAL)

BEGIN TAPER STA. 179+05, ℄

MAINTAIN TRAFFIC ON EXISTING PERMANENT ASPHALT PAVEMENT AND TEMPORARY RAMP, 8" ITEM 410 TRAFFIC COMPACTED SURFACE TYPE A OR B.

END TAPER STA. 181+50, ℄

36'

TEMPORARY 4" DOUBLE YELLOW CENTERLINE

MAINTAIN TRAFFIC ON EXISTING ASPHALT PAVEMENT

TEMP. 4" DOUBLE YELLOW CENTERLINE

EXISTING STOP SIGN TO REMAIN FOR THIS PHASE

TEMPORARY WHITE STOP LINE

TEMP. 4" DOUBLE YELLOW CENTERLINE

16' 4' 16'

CLEVELAND STREET S.W. 50' N. 19°-17'-51" E.

SUB-STATION (DO NOT DISTURB)

FOR CROSS SECTIONS, SEE SHEETS 203-205.
FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEE SHTS. 17, 18.
FOR ADVANCE WARNING SIGNS, SEE DETAIL SHEET NO. 30.
FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEET NO. 19.
FOR DETOUR PLAN, SEE SHEET NO. 27.

241MTB

CALC. BY K.S. DATE 3/91	STA-241-4.22	OHIO	26 / 303
CHKD. BY T.K. DATE 3/91		FHWA REGION 5	

MAINTENANCE OF TRAFFIC

SECTION 6 – PHASE A
CLEVELAND STREET

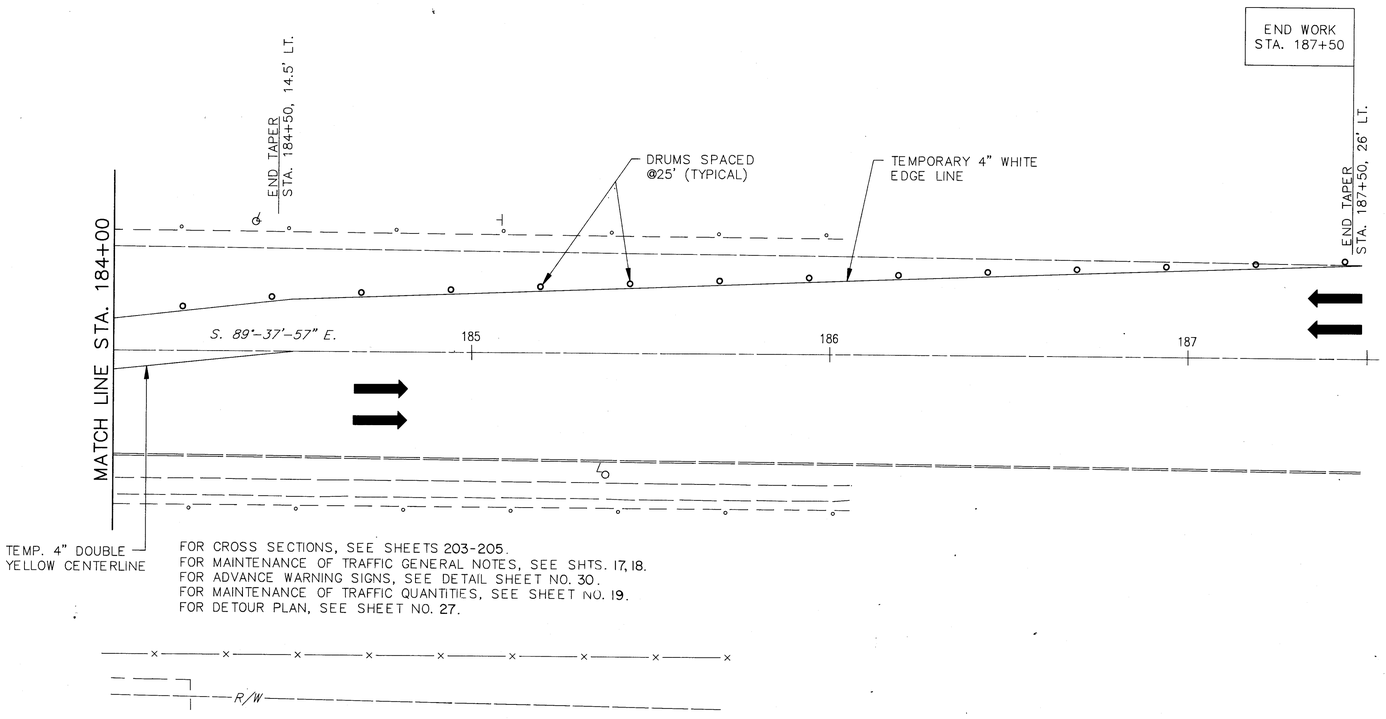
SCALE IN FEET

0 20 40

N

PHASE A

PROPOSED PERMANENT PAVEMENT (CONSTRUCTED THIS PHASE)



FOR CROSS SECTIONS, SEE SHEETS 203-205.
FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEE SHTS. 17, 18.
FOR ADVANCE WARNING SIGNS, SEE DETAIL SHEET NO. 30.
FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEET NO. 19.
FOR DETOUR PLAN, SEE SHEET NO. 27.

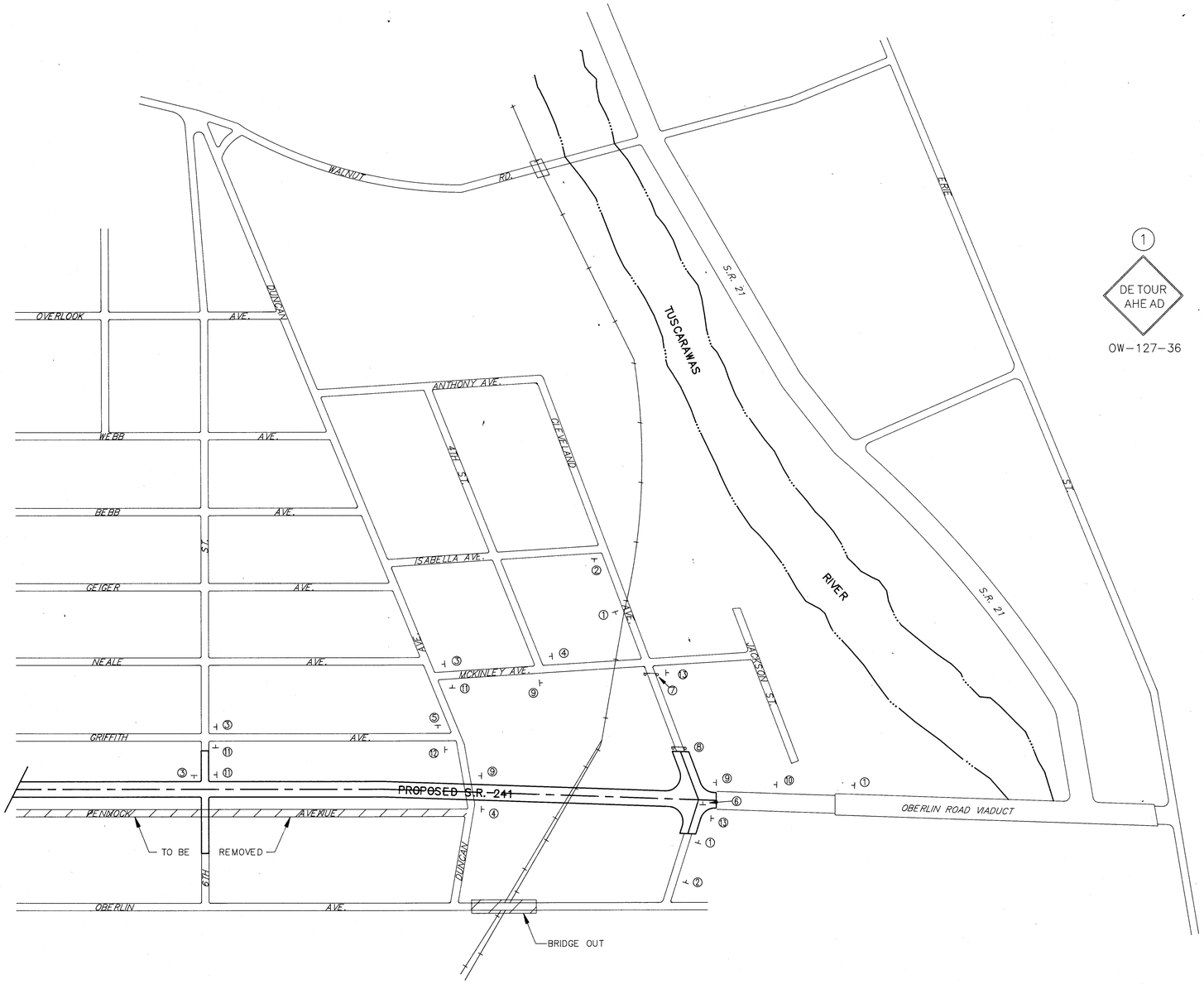
241MTRA

CALC. BY K.S. DATE 3/91	STA – 241 – 4.22	OHIO	27
CHKD. BY T.K. DATE 3/91		FHWA REGION	303

MAINTENANCE OF TRAFFIC

SECTION 6, PHASE A
CLEVELAND STREET SOUTHBOUND
CLEVELAND STREET NORTHBOUND
DETOUR PLAN

NO SCALE



SIGNING LEGEND

DE TOUR

1	DE TOUR AHE AD	OW–127–36
2	ROAD CLOSED AHE AD	OW–120–36
3	CLE VE LAND ST. DE TOUR ←	D–14–30 OC–29L
4	CLE VE LAND ST. DE TOUR ↑	D–14–30 OC–29
5	CLE VE LAND ST. DE TOUR →	D–14–30 OC–29R
6	ROAD CLOSED DE TOUR	R–75 OC–14L
7	ROAD CLOSED TO THRU TRAFFIC DE TOUR	R–76C OC–14R
8	ROAD CLOSED	R–75
9	CLE VE LAND ST. D–14–30 NORTH D–14–30 DE TOUR ↑ OC–29
10	CLE VE LAND ST. NORTH CLOSED USE DE TOUR	SPEC. 48" X 24"
11	CLE VE LAND ST. D–14–30 NORTH D–14–30 DE TOUR → OC–29R
12	CLE VE LAND ST. D–14–30 NORTH D–14–30 DE TOUR ← OC–29L
13	CLE VE LAND ST. D–14–30

241MTDP2

TPLAN2

STA – 241 – 4.22

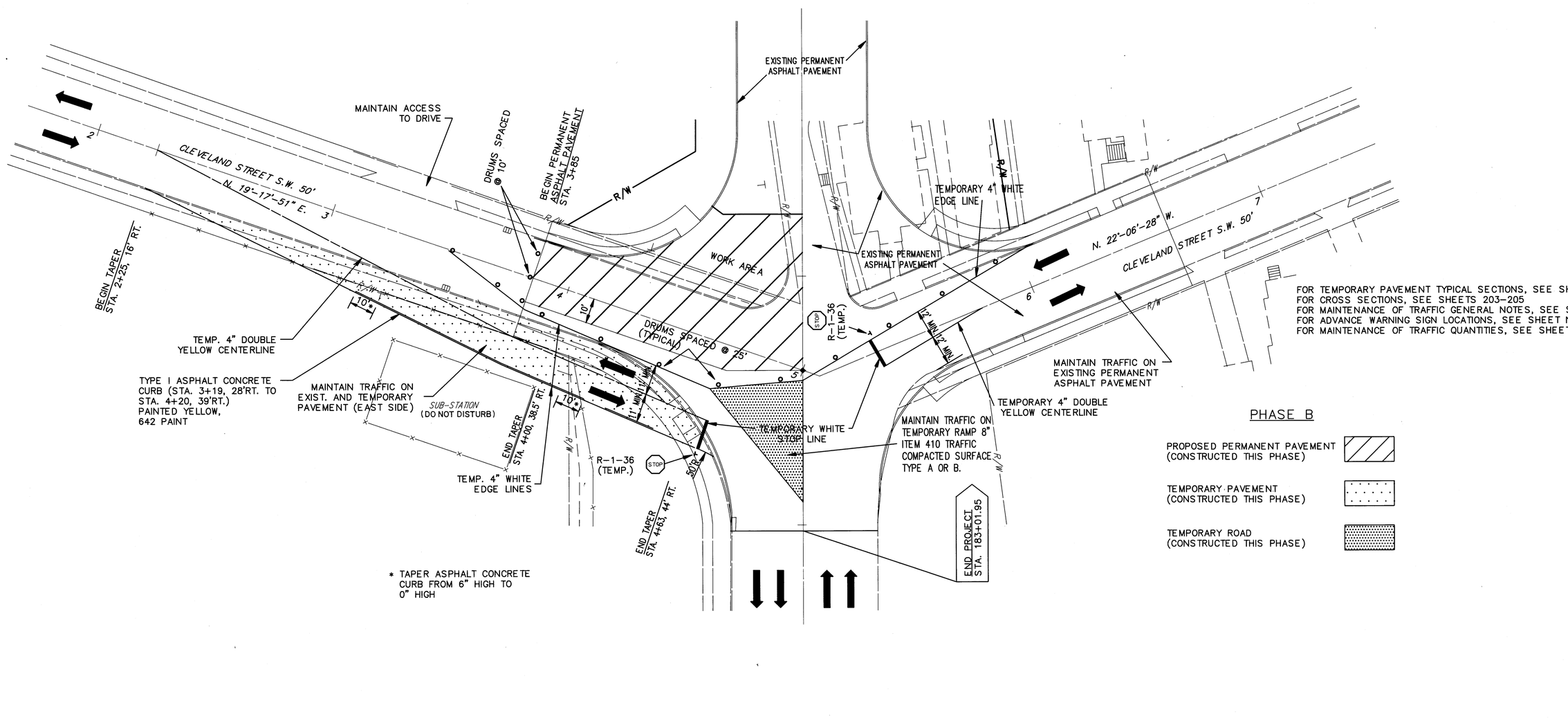
CALC. BY KJS DATE 3/91	STA–241–4.22	OHIO	28
CHKD. BY CCH DATE 3/91		FHWA REGION 5	303

MAINTENANCE OF TRAFFIC

SECTION 6 – PHASE B
CLEVELAND STREET

SCALE IN FEET

0 20 40



FOR TEMPORARY PAVEMENT TYPICAL SECTIONS, SEE SHEET 16.
FOR CROSS SECTIONS, SEE SHEETS 203–205
FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEE SHEETS 17, 18.
FOR ADVANCE WARNING SIGN LOCATIONS, SEE SHEET NO. 30.
FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEET 19.

PHASE B

PROPOSED PERMANENT PAVEMENT (CONSTRUCTED THIS PHASE)

TEMPORARY PAVEMENT (CONSTRUCTED THIS PHASE)

TEMPORARY ROAD (CONSTRUCTED THIS PHASE)

241MT6A

MAINTENANCE OF TRAFFIC

CALC. BY KJS DATE 3/91	STA-241-4.22	OHIO	29
CHKD. BY TSK DATE 3/91		FHWA REGION 5	303

SECTION 6 – PHASE C
CLEVELAND STREET

SCALE IN FEET

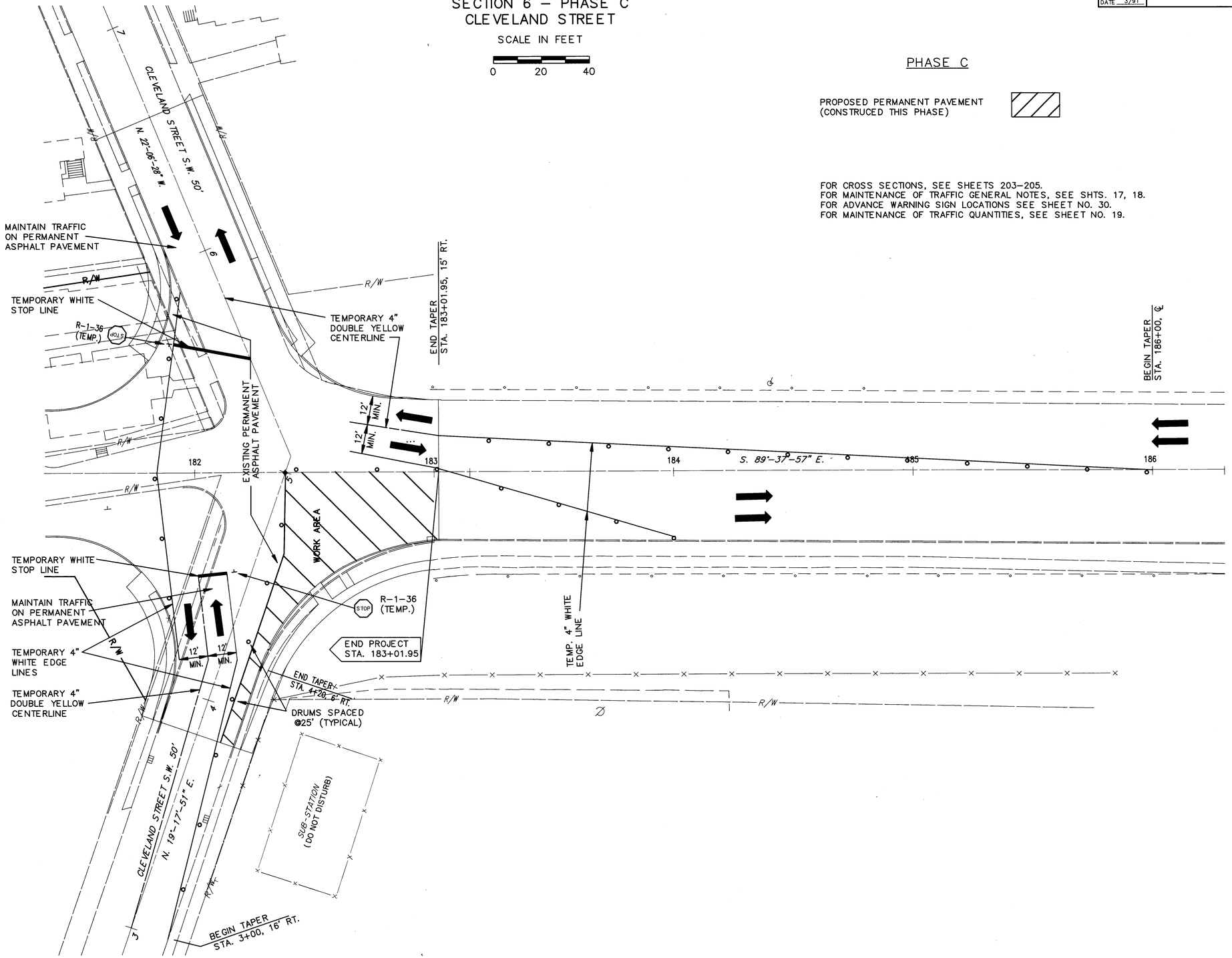
0 20 40

PHASE C

PROPOSED PERMANENT PAVEMENT (CONSTRUCED THIS PHASE)

FOR CROSS SECTIONS, SEE SHEETS 203–205.
FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEE SHTS. 17, 18.
FOR ADVANCE WARNING SIGN LOCATIONS SEE SHEET NO. 30.
FOR MAINTENANCE OF TRAFFIC QUANTITIES, SEE SHEET NO. 19.

N



241MTA

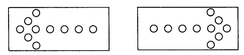
CALC. BY K.S. DATE 3/91	STA – 241 – 4.22	OHIO	30 / 303
CHKD. BY T.K. DATE 3/91		FHWA REGION 5	

MAINTENANCE OF TRAFFIC

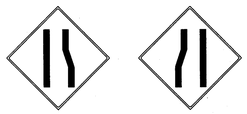
ADVANCE WARNING & REGULATORY SIGN DETAILS

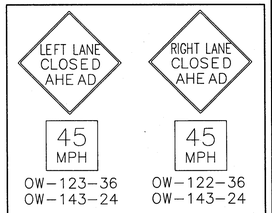
SECTION & PHASE	APPROXIMATE SIGN LOCATION		OC–8 (60" x 24")	FLASHING ARROW PANEL, TYPE B (30" x 60")	OW–138–30 (30" x 30")	OW–128–36 (36" x 36")	OW–60C–36 (36" x 36")	OW–60D–36 (36" x 36")	OW–122–36 (36" x 36")	OW–123–36 (36" x 36")	OW–143–24 (24" x 24")	OW–128–36 (36" x 36")	R–31Q–30 (30" x 30")
	STREET	STATION											
SECTION 1 PHASE A	S.R. 241	STA. –11+50, RT.							X		X	X	
	S.R. 241	STA. –6+50, RT.					X						
	S.R. 241	STA. –1+50, RT.		X									
	S.R. 241	STA, 3+60, RT.	X										
	S.R. 241	STA. 4+00, LT.			X								
	S.R. 241	STA. 9+10, RT.				X							
	U.S. 30 RAMP	STA. 8+00, RT.			X								
	REL. MILLERSBURG RD.	STA. 22+20, 11' LT.	X										
	REL. MILLERSBURG RD.	STA. 27+00, RT.		X				X					
	REL. MILLERSBURG RD.	STA. 24+50, ℄								X	X		
	REL. MILLERSBURG RD.	STA. 32+00, LT.							X	X			
	REL. MILLERSBURG RD.	STA. 37+00, LT.										X	
	REL. MILLERSBURG RD.	STA. 42+00, LT.											X
SECTION 1 PHASE B	S.R. 241	STA. 2+50, ℄											X
	S.R. 241	STA. 2+50, RT.											X
	S.R. 241	STA. 7+50, ℄											X
	S.R. 241	STA. 7+50, RT.											X
	S.R. 241	STA. 6+00, LT.	X									X	
	U.S. 30 RAMP	STA. 8+00, RT.											X
	REL. MILLERSBURG RD.	STA. 29+00, RT.	X										
	REL. MILLERSBURG RD.	STA. 30+90, LT.		X									
	REL. MILLERSBURG RD.	STA. 36+00, LT.						X					
	REL. MILLERSBURG RD.	STA. 41+00, LT.							X		X		
	REL. MILLERSBURG RD.	STA. 46+00, LT.										X	

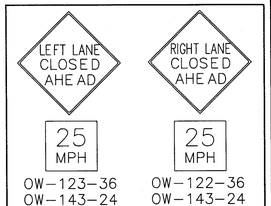
SECTION & PHASE	APPROXIMATE SIGN LOCATION		OC–8 (60" x 24")	OW–128–36 (36" x 36")	OW–138–30 (30" x 30")	OW–143–18 (18" x 18")	OC–39R–30 (30" x 30")	OC–39L–30 (30" x 30")	FLASHING ARROW PANEL, TYPE A (24" x 48")	OW–60C–36 (36" x 36")	OW–60D–36 (36" x 36")	OW–122–36 (36" x 36")	OW–123–36 (36" x 36")	OW–143–24 (24" x 24")	R–75 (48" x 30")
	STREET	STATION													
SECTION 2 GREENDALE AVENUE	GREENDALE AVE.	STA. 2+00, RT.		X											
	GREENDALE AVE.	STA. 6+90, LT.	X												
	GREENDALE AVE.	STA. 14+00, RT.	X												
	GREENDALE AVE.	STA. 18+00, LT.		X											
SECTION 3 9TH STREET	9TH STREET	STA. 4+70, RT.		X											
	9TH STREET	STA. 6+50, LT.	X												
	9TH STREET	STA. 14+00, RT.	X												
	9TH STREET	STA. 15+50, LT.		X											
SECTION 6 PHASE A	S.R. 241	STA. 173+00, RT.		X											
	S.R. 241	STA. 175+00, RT.											X	X	
	S.R. 241	STA. 177+00, RT.									X				
	S.R. 241	STA. 179+10, ℄							X						
	S.R. 241	STA. 180+00, LT.	X												
	S.R. 241	STA. 186+00, RT.	X												
	S.R. 241	STA. 187+40, LT.							X						
	S.R. 241	STA. 189+50, LT.								X					
	S.R. 241	STA. 191+50, LT.										X		X	
	S.R. 241	STA. 193+50, LT.		X											
SECTION 6 PHASE B	CLEVELAND ST.	STA. –1+75, RT.		X											
	CLEVELAND ST.	STA. 0+25, RT.					X								
	CLEVELAND ST.	STA. 2+00,RT.	X												
	CLEVELAND ST.	STA. 2+35, RT.			X	X									
	CLEVELAND ST.	STA. 6+00, LT.			X	X									
	CLEVELAND ST.	STA. 7+00, RT.	X												
	CLEVELAND ST.	STA. 8+10, LT.						X							
	CLEVELAND ST.	STA. 10+10, LT.		X											
	S.R. 241	STA. 166+50, ℄													X
	S.R. 241	STA. 180+00, LT.													X
	S.R. 241	STA. 185+00, LT.		X											
SECTION 6 PHASE C	CLEVELAND ST.	STA. 0–20, RT.		X											
	CLEVELAND ST.	STA. 1+80, RT.						X							
	CLEVELAND ST.	STA. 3+00, LT.	X												
	CLEVELAND ST.	STA. 3+10, RT.			X	X									
	CLEVELAND ST.	STA. 10+00, LT.		X											
	CLEVELAND ST.	STA. 7+00, RT.	X												
	S.R. 241	STA. 166+50 ℄													X
	S.R. 241	STA. 180+00, LT.													X
	S.R. 241	STA. 184+25, RT.	X												
	S.R. 241	STA. 185+90, ℄							X						
	S.R. 241	STA. 188+00, LT.									X				
	S.R. 241	STA. 190+00, LT.											X	X	
	S.R. 241	STA. 192+00, LT.		X											













OW–128–36



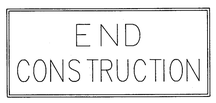
R–31Q–30



OC–39L–30



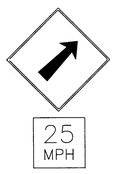
OC–39R–30



OC–8



OW–138–30
OW–143–18



OW–138–30
OW–143–18

241MTSD

STA – 241 – 4.22

FOR TYPICAL SECTIONS
SEE SHEETS 4 THRU 9.

*INCLUDES EXTRA AREA BY
COMPUTER CALCULATION.

PAVEMENT & CURB SUB-SUMMARY

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. – 241 – 4.22

OHIO
FHWA REGION

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PAVEMENT SUB-SUMMARY

ROUTE	STATION TO STATION	LENGTH (FT.)	WIDTH (FT.)	PAVEMENT AREA (S.Y.)	203 SUBGRADE COMPACTION		301 8" BITUMINOUS AGGREGATE BASE, AC-20		304 6" AGGREGATE BASE, AS PER PLAN		402 1 3/4" ASPHALT CONCRETE, AC-20		404 1 1/4" ASPHALT CONCRETE, AC-20	
					CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE
					S.Y.	S.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
S.R.241	STA. 10+05 TO STA. 11+00	95	5	53		–		11.8		8.8		2.6		1.8
S.R.241	STA. 11+00 TO STA. 15+00	400	48.0	2133		3022		679		528.8		103.7		74.1
S.R.241	STA. 15+00 TO STA. 23+06.69	806.69	48.0	4956*		6695		1180.4		902.2		240.9		172.1
S.R.241	STA. 23+06.69 TO STA. 25+00	193.31	44.5	956		1385		312.4		243.0		46.5		33.2
S.R.241	STA. 25+00 TO STA. 29+75	475	32.5	1716		2771		626.3		491.6		83.4		59.6
S.R.241	STA. 29+75 TO STA. 35+00	525	24.0	1400		2567		580.9		460.7		68.1		48.6
S.R.241	STA. 35+00 TO STA. 45+00	1000	24.0	2667		4889		1107.5		877.5		129.6		92.6
S.R.241	STA. 45+00 TO STA. 55+00	1000	24.0	2667		4889		1107.5		877.5		129.6		92.6
S.R.241	STA. 55+00 TO STA. 65+00	1000	24.0	3367*		5589		1264.1		987.4		163.6		116.9
S.R.241	STA. 65+00 TO STA. 75+00	1000	24.0	2667		4889		1107.5		877.5		129.6		92.6
S.R.241	STA. 75+00 TO STA. 85+00	1000	24.0	2667		4889		1107.5		877.5		129.6		92.6
S.R.241	STA. 85+00 TO STA. 95+00	1000	24.0	2667		4889		1107.5		877.5		129.6		92.6
S.R.241	STA. 95+00 TO STA. 105+00	1000	24.0	2667	2300	2589	520.6	586.9	412.1	465.4	61.0	68.6	43.6	49.0
S.R.241	STA. 105+00 TO STA. 110+85	585	24.0	1560	2860		647.8		513.3		75.8		54.2	
S.R.241	STA. 110+85 TO STA. 114+15	330	30.0	1100	1833		414.5		326.3		53.5		38.2	
S.R.241	STA. 114+15 TO STA. 115+00	85	36.0	340	529		119.4		93.5		16.5		11.8	
S.R.241	STA. 115+00 TO STA. 118+65	365	36.0	2214*	2971		704.5		603.6		107.6		76.9	
S.R.241	STA. 118+65 TO STA. 121+95	330	30.0	1100	1833		414.5		326.3		53.5		38.2	
S.R.241	STA. 121+95 TO STA. 125+00	305	24.0	813	1491		337.7		256.3		39.6		28.2	
S.R.241	STA. 125+00 TO STA. 135+00	1000	24.0	2919*	5139		1199.2		924.1		141.9		101.4	
S.R.241	STA. 135+00 TO STA. 145+00	1000	24.0	2667	4889		1107.5		877.5		129.6		92.6	
S.R.241	STA. 145+00 TO STA. 145+95	95	24.0	253	464		105.2		83.3		12.3		8.8	
S.R.241	STA. 145+95 TO STA. 148+95	300	30.0	1000	1667		376.9		296.6		48.6		34.7	
S.R.241	STA. 148+95 TO STA. 150+97.70	202.70	36.0	1074*	1524		345.0		296.0		52.2		37.3	
S.R.241	STA. 150+97.70 TO STA. 155+00	402.3	36.0	1904*	1953		425.3		325.5		92.6		66.2	
S.R.241	STA. 155+00 TO STA. 159+00	400	36.0	1600	1822		357.3		303.7		77.8		55.6	
S.R.241	STA. 159+00 TO STA. 161+75	275	36.0	1100	1253		245.6		208.8		53.5		38.2	
S.R.241	STA. 161+75 TO STA. 163+00	125	38.5	535	604		119.5		100.8		26.0		18.6	
S.R.241	STA. 163+00 TO STA. 164+75	175	44.5	865	962		193.2		160.4		42.0		30.0	
S.R.241	STA. 164+75 TO STA. 167+00	225	48.0	1789*	1882		399.6		313.7		87.0		62.1	
S.R.241	STA. 167+00 TO STA. 171+00	400	48.0	2133	2355		476.4		392.5		103.7		74.1	
S.R.241	STA. 171+00 TO STA. 175+00	400	48.0	2133	2355		476.4		392.5		103.7		74.1	
S.R.241	STA. 175+00 TO STA. 179+00	400	48.0	2133	2355		476.4		392.5		103.7		74.1	
S.R.241	STA. 179+00 TO STA. 183+01.95	401.95	48.0	3037*	3160		678.6		526.7		147.6		105.5	
MILLERSBURG ROAD	STA. 11+16.88 TO STA. 21+50	1033.12	48.0	5510		7806		1759.4		1365.7		267.8		191.3
GREENDALE	STA. 8+75 TO STA. 9+08.46	33.46	20.0	74.0		82		17.4		13.6		3.6		2.6
GREENDALE	STA. 10+91.54 TO STA. 11+75	83.46	20.0	185.0		204		43.5		34.0		9.0		6.4
17TH STREET	STA. 5+00 TO STA. 9+01.08	401.08	24.0	1070	1159		248.8		193.2		52.0		37.1	
17TH STREET	STA. 10+98.92 TO STA. 12+00	101.08	24.0	270	292		62.7		48.7		13.1		9.4	
OBERLIN RD.	STA. 0+16 TO STA. 2+89.02	273.02	24.0	895*	956		207.3		160.2		43.5		31.1	
9TH STREET	STA. 8+50 TO STA. 9+21.17	71.17	23.0	182	198		42.4		33.5		8.8		6.3	
9TH STREET	STA. 10+80.43 TO STA. 11+50	69.57	23.0	178	193		41.4		32.2		8.7		6.2	
6TH STREET	STA. 8+00 TO STA. 9+21.67	121.67	28.0	635*	695		141.8		115.8		30.9		22.0	
6TH STREET	STA. 10+78.33 TO STA. 11+50	71.67	28.0	223	263		49.6		43.8		10.8		7.7	
CLEV. ST.	STA. 3+85 TO STA. 3+97.01	12.01	28.0	37	44		8.4		7.4		1.8		1.3	
CLEV. ST.	STA. 6+09.38 TO STA. 6+60	50.62	28.0	157	186		35.2		30.9		7.7		5.5	
	TOTALS				50,187	57,155	10,979	12,600	8,792	9,889	1,807	1,706	1,291	1,219

CURB SUB-SUMMARY

ROUTE	STATION TO STATION	SIDE	609 COMBINATION CURB & GUTTER TYPE 2	609 CURB, TYPE 6
			CITY & STATE	CITY & STATE
			L.F.	L.F.
S.R.241	STA. 151+21 TO STA. 155+00	LT.	413.8	
S.R.241	STA. 151+00 TO STA. 155+00	RT.	436.9	
S.R.241	STA. 155+00 TO STA. 159+00	LT.	400.0	
S.R.241	STA. 155+00 TO STA. 159+00	RT.	400.0	
S.R.241	STA. 159+00 TO STA. 163+00	LT.	400.0	
S.R.241	STA. 159+00 TO STA. 163+00	RT.	400.0	
S.R.241	STA. 163+00 TO STA. 167+00	LT.	430.2	
S.R.241	STA. 163+00 TO STA. 167+00	RT.	425.0	
S.R.241	STA. 167+00 TO STA. 171+00	LT.	400.0	
S.R.241	STA. 167+00 TO STA. 171+00	RT.	400.0	
S.R.241	STA. 171+00 TO STA. 175+00	LT.	400.0	
S.R.241	STA. 171+00 TO STA. 175+00	RT.	400.0	
S.R.241	STA. 175+00 TO STA. 179+00	LT.	400.0	
S.R.241	STA. 175+00 TO STA. 179+00	RT.	400.0	
S.R.241	STA. 179+00 TO STA. 183+01.95	LT.	422.8	
S.R.241	STA. 179+00 TO STA. 183+01.95	RT.	436.7	
6TH ST.	STA. 8+00 TO STA. 9+26.24	LT.	126.2	
6TH ST.	STA. 8+00 TO STA. 9+15	RT.		115.0
6TH ST.	STA. 9+15 TO STA. 9+21.67	RT.	23.0	
6TH ST.	STA. 10+78.33 TO STA. 11+50	LT.	71.7	
6TH ST.	STA. 10+73.76 TO STA. 11+50	RT.	76.2	
CLEV. ST.	STA. 3+85 TO STA. 3+97	LT.	12.0	
CLEV. ST.	STA. 3+85 TO STA. 4+17.7	RT.	32.7	
CLEV. ST.	STA. 6+09.4 TO STA. 6+60	LT.	50.6	
CLEV. ST.	STA. 5+65.8 TO STA. 6+60	RT.	94.2	
	TOTALS		7,052	115.0

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UNDERDRAIN SUB–SUMMARY

FOR UNDERDRAIN REFERENCES & LOCATIONS SEE SHEETS 32 THROUGH 33.

UNDERDRAIN SUB–SUMMARY		603		603		605		605		SPEC.	
		6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931		6" CONDUIT, TYPE B		6" SHALLOW PIPE UNDERDRAIN		6" DEEP PIPE UNDERDRAIN		PRECAST REINFORCED CONCRETE OUTLET	
SHEET NO.	STREET NAME	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE
		L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.
51	S.R. 241		10		75				800		1
52	S.R. 241						955		1083		
53	S.R. 241		40				1350		760		4
55	S.R. 241								2000		
56	S.R. 241		20						2190		2
57	S.R. 241		50		48		1121		1390		5
58	S.R. 241		10		35				2095		1
59	S.R. 241		10		35				2170		1
60	S.R. 241		30		55		825		1300		3
61	S.R. 241	10	20	40		725	760	275	415	1	2
62	S.R. 241	10		40		670		1375		1	
63	S.R. 241	10		45		160		1720		1	
64	S.R. 241	10		40				1905		1	
65	S.R. 241	10		40				2030		1	
66	S.R. 241	10		50				830		1	
172	MILLERSBURG ROAD RELOCATED		30		100		450		1700		3
174	17TH STREET	30				720		625		3	
175	RELOCATED OBERLIN ROAD	10		40				590		1	
	TOTALS	100	220	295	348	2,275	5,461	9,350	15,903	10	22

S.R. 241 SHEET 64

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 125+00 TO STA. 131+75, LT.		650		40	
UD–2	STA. 131+50 TO STA. 135+00, LT.		350			
UD–3	STA. 125+00 TO STA. 132+05, RT.		705	10		1
UD–4	STA. 133+00 TO STA. 135+00, RT.		200			
	TOTALS		1905	10	40	1

S.R. 241 SHEET 65

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 135+00 TO STA. 141+75, LT.		650		40	
UD–2	STA. 141+50 TO STA. 145+00, LT.		350			
UD–3	STA. 135+00 TO STA. 142+00, RT.		705	10		1
UD–4	STA. 141+77 TO STA. 145+00, RT.		325			
	TOTALS		2030	10	40	1

S.R. 241 SHEET 66

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 145+00 TO STA. 150+30, LT.		530	10		1
UD–2	STA. 145+00 TO STA. 148+37, RT.		300		50	
	TOTALS		830	10	50	1

MILLERSBURG ROAD RELOCATED SHEET NO. 172

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 11+05 TO STA. 12+50, LT.	150			50	
UD–2	STA. 12+50 TO STA. 21+50, LT.		910	10	50	1
UD–3	STA. 11+00 TO STA. 13+90, RT.	300		10		1
UD–4	STA. 13+75 TO STA. 21+50, RT.		790	10		1
	TOTALS	450	1700	30	100	3

17TH STREET SHEET 174

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 5+00 TO STA. 6+75, LT.		185	10		1
UD–2	STA. 5+00 TO STA. 6+75, RT.		185	10		1
UD–3	STA. 6+75 TO STA. 9+50, LT.	280				
UD–4	STA. 6+75 TO STA. 10+35, RT.	440				
UD–5	STA. 10+00 TO STA. 12+00, LT.		255	10		1
	TOTALS	720	625	30		3

RELOCATED OBERLIN ROAD SHEET 175

UNDERDRAINS		605	605	603	603	SPEC.
		6" SHALLOW PIPE UNDERDRAIN	6" DEEP PIPE UNDERDRAIN	6" CONDUIT, TYPE F, 707.17 NON–PERFORATED, ASTM 3034 SDR 35 OR SS 931	6" CONDUIT, TYPE B	PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 0+65 TO STA. 3+35, LT.		285		40	
UD–2	STA. 0+40 TO STA. 3+35, RT.		305	10		1
	TOTALS		590	10	40	1

241UNDER

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UNDERDRAIN SUB–SUMMARY

NOTE: QUANTITY TOTALS CARRIED TO SHEET 32.

S.R. 241 SHEET 51

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 11+00 TO STA. 15+00, LT.		400	10		1
UD–2	STA. 11+00 TO STA. 15+00, RT.		400		75	
	TOTALS		800	10	75	1

S.R. 241 SHEET 52

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 15+00 TO STA. 20+35, LT.		590			
UD–2	STA. 20+85 TO STA. 25+00, LT.	455				
UD–3	STA. 15+00 TO STA. 20+00, RT.		493			
UD–4	STA. 20+00 TO STA. 25+00, RT.	500				
	TOTALS	955	1083			

S.R. 241 SHEET 53

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 25+00 TO STA. 31+50, LT.	675		10		1
UD–2	STA. 31+30 TO STA. 35+00, LT.		380	10		1
UD–3	STA. 25+00 TO STA. 31+50, RT.	675		10		1
UD–4	STA. 31+30 TO STA. 35+00, RT.		380	10		1
	TOTALS	1350	760	40		4

S.R. 241 SHEET 55

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 35+00 TO STA. 41+00, LT.		600			
UD–2	STA. 41+00 TO STA. 45+00, LT.		400			
UD–3	STA. 35+00 TO STA. 41+00, RT.		600			
UD–4	STA. 41+00 TO STA. 45+00, RT.		400			
	TOTALS		2000			

S.R. 241 SHEET 56

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 45+00 TO STA. 52+00, LT.		695	10		1
UD–2	STA. 51+00 TO STA. 55+00, LT.		400			
UD–3	STA. 45+00 TO STA. 52+00, RT.		695	10		1
UD–4	STA. 51+00 TO STA. 55+00, RT.		400			
	TOTALS		2190	20		2

S.R. 241 SHEET 57

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 55+00 TO STA. 58+00, LT.		310	10		1
UD–2	STA. 57+80 TO STA. 58+80, LT.	350		10	24	1
UD–3	STA. 58+80 TO STA. 61+25, LT.	260		10		1
UD–4	STA. 61+00 TO STA. 65+00, LT.		400			
UD–5	STA. 55+00 TO STA. 57+60, RT.		265	10		1
UD–6	STA. 57+25 TO STA. 61+00, RT.	511		10	24	1
UD–7	STA. 60+85 TO STA. 65+00, RT.		415			
	TOTALS	1121	1390	50	48	5

S.R. 241 SHEET 58

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 65+00 TO STA. 70+50, LT.		545	10		1
UD–2	STA. 69+50 TO STA. 75+00, LT.		550			
UD–3	STA. 65+00 TO STA. 69+45, RT.		425		35	
UD–4	STA. 69+25 TO STA. 75+00, RT.		575			
	TOTALS		2095	10	35	1

S.R. 241 SHEET 59

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 75+00 TO STA. 78+50, LT.		345	10		1
UD–2	STA. 76+75 TO STA. 85+00, LT.		825			
UD–3	STA. 75+00 TO STA. 76+75, RT.		150		35	
UD–4	STA. 76+50 TO STA. 85+00, RT.		850			
	TOTALS		2170	10	35	1

S.R. 241 SHEET 60

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 85+00 TO STA. 88+00, LT.		300	10		1
UD–2	STA. 87+50 TO STA. 91+25, LT.	390		10		1
UD–3	STA. 91+00 TO STA. 95+00, LT.		400			
UD–4	STA. 85+00 TO STA. 87+50, RT.		200		55	
UD–5	STA. 87+00 TO STA. 91+25, RT.	435		10		1
UD–6	STA. 91+00 TO STA. 95+00, RT.		400			
	TOTALS	825	1300	30	55	3

S.R. 241 SHEET 61

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 95+00 TO STA. 97+00, LT.		210	10		1
UD–2	STA. 96+50 TO STA. 104+00, LT.	750				
UD–3	STA. 103+55 TO STA. 105+00, LT.		155	10		1
UD–4	STA. 95+00 TO STA. 97+00, RT.		205	10		1
UD–5	STA. 96+50 TO STA. 104+25, RT.	735			40	
UD–6	STA. 104+00 TO STA. 105+00, RT.		120			
	TOTALS	1485	690	30	40	3

S.R. 241 SHEET 62

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 105+00 TO STA. 111+75, LT.		675			
UD–2	STA. 111+50 TO STA. 115+00, LT.	370		10		1
UD–3	STA. 105+00 TO STA. 112+00, RT.		700			
UD–4	STA. 111+80 TO STA. 115+00, RT.	300			40	
	TOTALS	670	1375	10	40	1

S.R. 241 SHEET 63

UNDERDRAINS		605 6" SHALLOW PIPE UNDERDRAIN	605 6" DEEP PIPE UNDERDRAIN	603 6" CONDUIT, TYPE F, 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 931	603 6" CONDUIT, TYPE B	SPEC. PRECAST REINFORCED CONCRETE OUTLET
REF.	LOCATION	LF.	LF.	LF.	LF.	EA.
UD–1	STA. 115+00 TO STA. 115+75, LT.	75				
UD–2	STA. 117+23 TO STA. 117+47, LT.		215			
UD–3	STA. 117+30 TO STA. 122+00, LT.		480	10		1
UD–4	STA. 122+00 TO STA. 125+00, LT.		300			
UD–5	STA. 115+00 TO STA. 115+80, RT.	85				
UD–6	STA. 117+50 TO STA. 122+00, RT.		425		45	
UD–7	STA. 122+00 TO STA. 125+00, RT.		300			
	TOTALS	160	1720	10	45	1

UDRAIN1

CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

DRAINAGE SUB–SUMMARY

DRAINAGE SUB–SUMMARY		601		601		601			602			603		603	603	603	603	603	603		603	603	603	603		603		603
		ROCK CHANNEL PROTECTION TYPE A W / FILTER		ROCK CHANNEL PROTECTION TYPE B W / FILTER		RIPRAP 6" REINFORCED CONCRETE SLAB			CONCRETE MASONRY			6" CONDUIT TYPE B 706.08 ASTM C700ES WITH JOINTS AS PER 706.12		8" CONDUIT TYPE B 706.08 W/JOINTS AS PER 706.12	12" CONDUIT TYPE B 706.08 ASTM C700ES WITH JOINTS AS PER 706.12	12" CONDUIT TYPE B 706.02	12" CONDUIT TYPE C 706.02	12" CONDUIT TYPE D 706.02	12" CONDUIT TYPE D 706.02 OR 707.01		15" CONDUIT TYPE A 706.02	15" CONDUIT TYPE A 706.02 OR 18" 707.01 (0.109)707.04(0.079) 707.05(0.079)OR 707.09	15" CONDUIT TYPE B 706.02	15" CONDUIT TYPE C 706.02		24" CONDUIT TYPE A 706.02, 707.01(0.109), 707.04(0.079), 707.05 (0.079), OR 707.09		24" CONDUIT TYPE B 706.02
SHEET NO.	STREET NAME	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE		CITY & STATE	STATE		CITY & STATE		CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	STATE		CITY & STATE	STATE	CITY & STATE	CITY & STATE		STATE		CITY & STATE
		C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	C.Y.		C.Y.	C.Y.		L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.		L.F.		L.F.
52	S.R. 241																		40									
57	S.R. 241									1.58												103				85		
62	S.R. 241																	34										
63	S.R. 241								1.2																			
64	S.R. 241								1.5												85							
65	S.R. 241								1.4					35														
66	S.R. 241								1.27							100												110
67	S.R. 241											79				150												
68	S.R. 241															122	29											
69	S.R. 241															128												
70	S.R. 241															52	9											
72	S.R. 241														73	77	34											
73	S.R. 241															52	10											
74	S.R. 241															264	58											
174	17TH STREET					1.4			0.35								95						46	75				
175	OBERLIN ROAD								0.50												94							
225	STORM SEWER OUTLET	13.4				3.8			0.84																			
228	S.R. 241 CULVERT, STA. 26+07.50		25				33			2.48																		
229	S.R. 241 CULVERT, STA. 60+30.80				6.7		26.8			1.4																		
230	S.R. 241 CULVERT, STA. 102+40.50			10.7		15.2			2.5																			
231	S.R. 241 CULVERT, STA. 113+67.00			48		30			11.62																			
232	17TH ST. CULVERT, STA. 7+07.00			48					10.62																			
TOTALS		13.4	25	106.7	6.7	50.4	59.8		31.8	5.5		79		35	73	945	235	34	40		179	103	46	75		85		110

COST FOR PLUG AND TEES ARE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS ITEM 603 CONDUITS. PLUG AND TEES ARE NOT CARRIED TO THE GENERAL SUMMARY.

DRAINAGE SUB–SUMMARY

CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO	35
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

DRAINAGE SUB–SUMMARY		603		603		603	603	603	603		603	603	603	603	603		603	603		603	603		604		604		604	
		27" CONDUIT TYPE D 706.02		30" CONDUIT TYPE A 706.02		36" CONDUIT TYPE A 706.02 OR 42" 707.09 (0.109)	36" CONDUIT TYPE B 706.02	36" CONDUIT TYPE C 706.02	36" CONDUIT TYPE D 706.02		42" CONDUIT TYPE B 706.02	42" CONDUIT TYPE B 706.02 1250 D–LOAD	42" CONDUIT TYPE C 706.02	42" CONDUIT TYPE C 706.02 1250 D–LOAD	42" CONDUIT TYPE C, 706.02 3000 D–LOAD WALL C AS PER PLAN		48" CONDUIT TYPE A 706.02	48" CONDUIT, TYPE A 706.02 2750 D–LOAD OR 54" 707.09 (0.168) OR 54" 707.02 FIELD PAVED AS PER PLAN		96" CONDUIT TYPE A 706.02	96" CONDUIT TYPE A 706.02 1250 D–LOAD		CATCH BASIN NO. 5 W/B GRATE		MANHOLE NO.3		MANHOLE, SANITARY RECONSTRUCTED TO GRADE AS PER PLAN	
SHEET NO.	STREET NAME	CITY & STATE		CITY & STATE		STATE	CITY & STATE	CITY & STATE	CITY & STATE		CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE		CITY & STATE	STATE		CITY & STATE	CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE	
		L.F.		L.F.		L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.		L.F.	L.F.		L.F.	L.F.		EA.		EA.			
63	S.R. 241			111																						2	
64	S.R. 241	37																									
65	S.R. 241								35																		
66	S.R. 241						85	330			25		40												3		
67	S.R. 241												400												1		
68	S.R. 241												350	50											1		
69	S.R. 241											95		305											1		2	
70	S.R. 241												50	350											1		1	
72	S.R. 241												400												1		1	
73	S.R. 241												336		64										1			
74	S.R. 241												265												1		1	
174	17TH STREET																							3		2	
225	STORM SEWER OUTLET											350		76											1			
228	S.R. 241 CULVERT, STA. 26+07.50																	296										
229	S.R. 241 CULVERT, STA. 60+30.80					151																						
230	S.R. 241 CULVERT, STA. 102+40.50																109											
231	S.R. 241 CULVERT, STA. 113+67.00																				218							
232	17TH ST. CULVERT, STA. 7+07.00																			131								

COST FOR PLUG AND TEES ARE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS ITEM 603 CONDUITS. PLUG AND TEES ARE NOT CARRIED TO THE GENERAL SUMMARY.

DRAINAGE SUB–SUMMARY

DRAINAGE SUB–SUMMARY		604 MANHOLE, STORM RECONSTRUCTED TO GRADE		604 MANHOLE NO.3 SANITARY AS PER PLAN TYPE A		604 CATCH BASIN NO. 3 W/ V GRATE		604 CATCH BASIN NO. 2–2–A		604 CATCH BASIN NO. 3A W/ V GRATE		604 36" PLUG		604 36" x 12" x 36" TEE		604 42" x 12" x 42" TEE											
SHEET NO.	STREET NAME	CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE											
		EA.		EA.		EA.		EA.		EA.		EA.		EA.		EA.											
65	S.R. 241			1																							
66	S.R. 241									2				2													
67	S.R. 241									3						2											
68	S.R. 241					2				4						2											
69	S.R. 241	1								1																	
70	S.R. 241	1								2						1											
72	S.R. 241	2						2		2		1				1											
73	S.R. 241									2						1											
74	S.R. 241					2				7						2											
225	STORM SEWER OUTLET															1											
TOTALS		4		1		4		2		23		1		2		10											

I.C. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO	37
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

ROADWAY SUB–SUMMARY

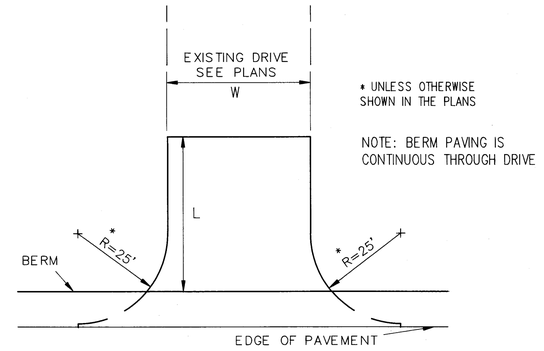
ROADWAY SUB–SUMMARY		202		202		202	202	202	202	202		202	202		202	202	202		202			202			202			202
		PIPE REMOVED (24" AND UNDER)		PIPE REMOVED (OVER 24")		STRUCTURE REMOVED CONCRETE AND STONE WALL	STRUCTURE REMOVED BRICK WALL	STRUCTURE REMOVED BRICK BARBECUE	STRUCTURE REMOVED PLANTER	STRUCTURE REMOVED, CONC. BOX CULVERT AND HEADWALL		CONCRETE MEDIAN REMOVED	SEPTIC TANK REMOVED		PAVEMENT REMOVED	WALK REMOVED	CONCRETE STEPS REMOVED		FENCE REMOVED			GUARDRAIL REMOVED			CATCH BASIN REMOVED			MANHOLE REMOVED STORM
SHEET NO.	STREET NAME	CITY & STATE	STATE	CITY & STATE		CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE		STATE	STATE		CITY & STATE	CITY & STATE	CITY & STATE		CITY & STATE	STATE		CITY & STATE	STATE		CITY & STATE	STATE		CITY & STATE
		L.F.	L.F.	L.F.		L.S.	L.S.	L.S.	L.S.	L.S.		S.Y.	EA.		S.Y.	S.F.	L.S.		L.F.	L.F.		L.F.	L.F.		L.F.	L.F.		EA.
51	S.R. 241											272								340							1		
53	S.R. 241		95																	825									
55	S.R. 241																			550									
56	S.R. 241												1							470									
57	S.R. 241																			290									
58	S.R. 241																			545									
61	S.R. 241																		95	485									
63	S.R. 241					L.S.																							
65	S.R. 241	35																	165										
66	S.R. 241	20																	505						2				
68	S.R. 241															2611													
69	S.R. 241															3151			90										
70	S.R. 241														251	1471			310										
72	S.R. 241	29		78			L.S.	L.S.							112	1263			120						1			2	
73	S.R. 241														75	445			180										
74	S.R. 241								L.S.							629	L.S.								1				
172	MILLERSBURG ROAD RELOCATED																							1920					
174	17TH STREET	80								L.S.					1088								323		2				
177	6TH STREET														1244	1291													
178	CLEVELAND STREET														975	2550													
224	CHANNEL DEEPENING TO LINDSAY DITCH																		436										
228	STORM SEWER OUTLET																		80				37.5						
TOTALS		164	95	78		L.S.	L.S.	L.S.	L.S.	L.S.		272	1		3745	13,411	L.S.		1981	3505		360.5	1920		6	1		2

ROADWAY SUB–SUMMARY

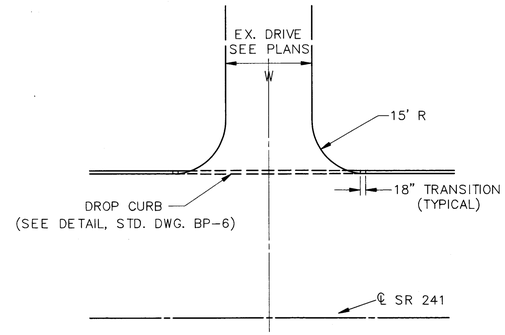
ROADWAY SUB–SUMMARY		202		202	202		604			606			606		606	606		607		608	608		609				
		MANHOLE REMOVED SANITARY		CURB REMOVED	CURB AND GUTTER REMOVED		MONUMENT ASSEMBLY			GUARDRAIL BARRIER DESIGN TYPE 5			GUARDRAIL TYPE 5		ANCHOR ASSEMBLY TYPE A		ANCHOR ASSEMBLY TYPE T		FENCE, TYPE CL		4" CONCRETE WALK	CURB RAMP TYPE 2		ASPHALT CONCRETE CURB				
SHEET NO.	STREET NAME	CITY & STATE		CITY & STATE	CITY & STATE		CITY & STATE	STATE		CITY & STATE	STATE		CITY & STATE	STATE	CITY & STATE	STATE	STATE		CITY & STATE		CITY & STATE	CITY & STATE		CITY & STATE				
		EA.		L.F.	L.F.		EA.	EA.		L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.		L.F.		S.F.	EA.		L.F.				
51	S.R. 241							1																			
52	S.R. 241							3						250		2	1										
53	S.R. 241							1			12.5																
55	S.R. 241							1																			
56	S.R. 241							1																			
57	S.R. 241							1																			
58	S.R. 241							1																			
59	S.R. 241							1																			
60	S.R. 241							2																			
61	S.R. 241						1																				
62	S.R. 241						1																				
63	S.R. 241						2			50																	
64	S.R. 241						2			50																	
65	S.R. 241	1					1																				
66	S.R. 241						2												700								
67	S.R. 241						2			50									735								
68	S.R. 241			495						31.25									364								
69	S.R. 241			568	90		1			25									329		70						
70	S.R. 241			185	400		1												400								
72	S.R. 241			177	265		2			87.5									303					25			
73	S.R. 241						1																				
74	S.R. 241						2																				
172	MILLERSBURG ROAD RELOCATED							3						781.25		1											
174	17TH STREET			700																							
177	6TH STREET			298	116																288						
178	CLEVELAND STREET			506																	1965	5					
225	STORM SEWER OUTLET												37.5		1				80								
	TOTALS	1		2929	871		18	15		293.75	12.5		37.5	1031.25	1	3	1		2911		2323	5		25				

DRIVEWAY SUB–SUMMARY

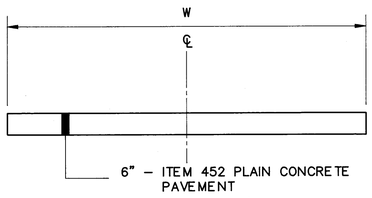
SHEET NO.	STREET NAME	REFERENCE NO.	STATION	SIDE	REPLACEMENT LENGTH CONC.	REPLACEMENT LENGTH ASPH.	REPLACEMENT LENGTH STONE	"W" DRIVE WIDTH	TYPICAL DRIVE SECTION	AREA OF DRIVE S.Y.	ITEM 203 EMBANKMENT CITY & STATE C.Y.	ITEM 203 EMBANKMENT STATE C.Y.	ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION CITY & STATE C.Y.	ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION STATE C.Y.	ITEM 301 5" BITUMINOUS AGGREGATE BASE AC–20 CITY & STATE C.Y.	ITEM 404 1" ASPHALT CONCRETE AC–20 (DRIVEWAYS) CITY & STATE C.Y.	ITEM 411 8" STABILIZED CRUSHED AGGREGATE CITY & STATE C.Y.	ITEM 411 8" STABILIZED CRUSHED AGGREGATE STATE C.Y.	ITEM 452 6" PLAIN CONCRETE PAVEMENT CITY & STATE S.Y.
52	SR 241	DR–1	21+50	RT.	–	–	586'	10'	B	726	–	233	–	35.7	–		–	161.3	–
55	SR 241	DR–1	42+00	RT.	–	–	148'	10'	B	191	–	–	–	366.8	–		–	42.4	–
62	SR 241	DR–1	108+36	LT.	–	–	75'	10'	B	95	–	–	13.8	–	–		21.1	–	–
63	OBERLIN RD. TURNAROUND	DR–1	S.R. 241 120+00	LT.	–	27'	–	20'	C	98	–	–	26.0	–	13.6	2.7	–	–	–
64	OBERLIN RD. TURNAROUND	DR–1	S.R. 241 127+00	RT.	–	27'	–	20'	C	98	16.3	–	–	–	13.6	2.7	–	–	–
64	SR 241	DR–1	130+00	LT.	–	–	160'	9'	B	184	–	–	166.6	–	–		40.9	–	–
65	SR 241	DR–1	140+45	LT.	–	–	74'	8'	B	66	–	–	25.5	–	–		14.7	–	–
66	9TH STREET	DR–1	11+04	RT.	–	–	25'	20'	B	85	–	–	18.9	–	–		18.9	–	–
67	8TH STREET	DR–1	5+40	LT.	–	–	380'	20'	B	874	–	–	188.0	–	–		194.2	–	–
68	SR 241	DR–1	161+07	RT.		29'	37.5'	8'	B,C	77	–	–	113.3	–	5.2	1.0	17.4	–	–
69	ALLEY TURNAROUND	DR–1	S.R. 241 164+82	LT.	–	16'	–	20'	C	45	–	–	9.0	–	6.3	1.3	–	–	–
69	ALLEY TURNAROUND	DR–2	S.R. 241 166+54	LT.	–	17'	–	20'	C	45	–	–	9.0	–	6.4	1.4	–	–	–
70	SR 241	DR–1	167+40.2	RT.	–	56.7'	–	15'	C	105	–	–	92.2	–	14.6	2.9	–	–	–
70	SR 241	DR–2	168+28.5	RT.	–	57.2'	–	12'	C	87	–	–	75.1	–	12.1	2.4	–	–	–
70	SR 241	DR–3	169+91.5	RT.	–	57.7'	–	12'	C	88	–	–	72.9	–	12.2	2.4	–	–	–
71	SR 241	DR–1	172+34.66	RT.	–	55.0'	–	13'	C	90	–	–	98.5	–	12.5	2.5	–	–	–
71	SR 241	DR–2	172+83.19	RT.	–	54.0'	–	21'	C	137	–	–	115.8	–	19.0	3.8	–	–	–
74	SR 241	DR–1	180+48	LT.	–	30.0'	35	10'	B,C	90	–	–	98	–	6.6	1.3	9.5	–	–
174	17TH STREET	DR–1	5+23	RT.	–	25'	9'	10'	B,C	72	–	–	4.7	–	8.7	1.7	2.2	–	–
174	17TH STREET	DR–2	6+52	RT.	–	34'	–	10'	C	74	10.7	–	–	–	10.4	2.0	–	–	–
174	17TH STREET	DR–3	6+54	LT.	9'	25'	–	12'	A	80	–	–	1.2	–	9.4	1.9	–	–	12
177	6TH STREET	DR–1	10+83	RT.	7'	–	–	44'	A	34	–	–	2.8	–	–	–	–	–	34
177	6TH STREET	DR–2	10+75	LT.	–	8'	–	10'	C	10.4	–	–	2.0	–	1.5	0.3	–	–	–
178	CLEVELAND ST.	DR–1	5+81	RT.	8'	–	–	13'	A	11.6	–	–	2.3	–	–	–	–	–	11.6
TOTALS											27	233	1136	402	152	31	319	204	58



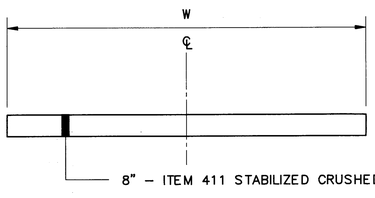
TYPICAL DRIVE DETAIL
ALONG NON–CURB SECTION



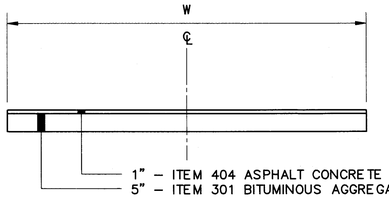
TYPICAL DRIVE DETAIL
ALONG CURB SECTION



TYPICAL DRIVE SECTION "A"
(RESIDENTIAL)



TYPICAL DRIVE SECTION "B"



TYPICAL DRIVE SECTION "C"
(COMMERCIAL)
(TURNAROUNDS)

CALC. BY KJS DATE 6/91	STA – 241 – 4.22	OHIO	40
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

EARTHWORK SUB–SUMMARY

UNDERCUT SUB–SUMMARY

STREET	SHEET	STATION TO STATION	NATURE OF MATERIAL	203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION		203 EMBANKMENT		203 BORROW USING GRANULAR MATERIAL, AS PER PLAN		203 BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL	
				CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE
				CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.
S.R. 241	80,81	STA. 19+00 TO STA. 20+00	SOFT		232		232				
S.R. 241	84–86	STA. 26+00 TO STA. 28+00	UNSUITABLE		3704		3704				
S.R. 241	93,94	STA. 39+00 TO STA. 40+00	WET		236		236				
S.R. 241	106,107	STA. 60+00 TO STA. 62+00	LOOSE, WET SILT		1934		1934				
S.R. 241	120,121	STA. 87+00 TO STA. 88+00	TOPSOIL		105		105				
S.R. 241	122	STA. 90+75 TO STA. 91+25	TOPSOIL		43		43				
S.R. 241	125	STA. 95+75 TO STA. 96+25	TOPSOIL		43		43				
S.R. 241	126	STA. 97+25 TO STA. 97+75	TOPSOIL		37		37				
S.R. 241	127–129	STA. 99+50 TO STA. 103+50	UNSUITABLE					6248	2640	9766	1471
S.R. 241	133	STA. 111+75 TO STA. 112+25	TOPSOIL	26		26					
S.R. 241	134–136	STA. 113+00 TO STA. 115+50	UNSUITABLE	3146		3146					
S.R. 241	136,137	STA. 116+50 TO STA. 117+00	SILT	219		219					
S.R. 241	139,140	STA. 122+00 TO STA. 122+50	TOPSOIL	12		12					
S.R. 241	144–148	STA. 131+00 TO STA. 138+50	LOOSE SILT	2283		2283					
S.R. 241	155,156	STA. 151+00 TO STA. 155+00	SILT	235		235					
S.R. 241	163–165	STA. 167+00 TO STA. 171+50	LOOSE	1827		1827					
S.R. 241	165,166	STA. 171+50 TO STA. 173+00	UNSUITABLE	356		356					
17TH ST.	191	STA. 5+00 TO STA. 6+50	SILT	386		386					
17TH ST.	192	STA. 6+75 TO STA. 7+25	UNSUITABLE	53		53					
17TH ST.	194	STA. 10+50 TO STA. 12+00	SILT	442		442					
OBERLIN RD.	195	STA. 0+16 TO STA. 1+20	FILL	861		861					
OBERLIN RD.	195,196	STA. 1+20 TO STA. 3+00	SILT	587		587					
OBERLIN RD.	196	STA. 2+80 TO STA. 3+20	SOFT	93		93					
AS DIRECTED	–	AS DIRECTED (CONTINGENCY)		1500	1500	1500	1500				
			TOTAL	12,026	7,834	12,026	7,834	6,248	2,640	9,766	1,471

THE NATURE OF MATERIALS TO BE REMOVED AND THE UNDERCUT LIMITS AS SHOWN IN THE ABOVE UNDERCUT SUB–SUMMARY WERE DETERMINED FROM SOIL BORINGS, SITE RECONNAISSANCE AND PROBING.

LIMITS OF UNDERCUT AREAS EXCEPT MATERIAL DESIGNATED AS TOPSOIL ARE SHOWN ON THE PLAN CROSS SECTIONS. THESE QUANTITIES WERE DETERMINED BY THE AVERAGE END AREA METHOD. TOPSOIL QUANTITIES WERE ESTIMATED BY USING THE TOPSOIL DEPTH INDICATED ON THE SOIL BORING LOG WITHIN THE LIMITING STATIONS TO THE WIDTH OF THE 304 AGGREGATE BASE. TOPSOIL IS TO BE REMOVED WHEREVER IT OCCURS WITHIN 3 FEET BELOW SUBGRADE.

SOILS DESCRIBED AS SILT ON THE BORING LOGS ARE ASSUMED TO BE A–4b SILT SOILS AND SHOULD BE UNDERCUT AND REPLACED WITH SUITABLE SUBGRADE MATERIAL WHEREVER THEY OCCUR WITHIN 3 FEET BELOW PROPOSED SUBGRADE.

PRIOR TO EARTHWORK OPERATIONS THE ENGINEER TOGETHER WITH THE CONTRACTOR SHOULD REVIEW THE SUBSURFACE INVESTIGATION REPORT, SOILS PROFILE AND TEST BORING LOGS. IT IS THE INTENT OF THIS PROJECT TO REMOVE AND REPLACE UNSUITABLE AND/OR SOFT AND WET MATERIALS WITHIN THE ROADWAY EMBANKMENT LIMITS IN ACCORDANCE WITH 203.04. IF DURING THE PROGRESS OF EARTHWORK OPERATIONS SOIL CONDITIONS VARY FROM THOSE DESCRIBED ABOVE OR AS INDICATED IN THE SOILS PROFILE THE LIMITS OF UNDERCUT SHALL BE ADJUSTED (EITHER EXPANDED OR REDUCED) AS DIRECTED BY THE ENGINEER. A CONTINGENCY QUANTITY HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER FOR ADDITIONAL UNDERCUT AREAS OUTSIDE THE LIMITS DESCRIBED AND SHOWN ON THE PLAN CROSS SECTIONS.

QUANTITIES HAVE BEEN CARRIED TO THE GENERAL NOTES, REMOVAL AND REPLACEMENT OF UNSUITABLE OR SOFT AND WET SUBGRADE MATERIALS, SHEET NO. 13.

EARTHWORK SUB–SUMMARY

STREET	SHEET	STATION TO STATION	203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION		203 EMBANKMENT	
			CITY & STATE	STATE	CITY & STATE	STATE
			CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.
S.R. 241	51	STA. 11+00 TO STA. 15+00		3209		440
S.R. 241	52	STA. 15+00 TO STA. 25+00		13922		21341
S.R. 241	54	STA. 25+00 TO STA. 35+00		24662		70466
S.R. 241	55	STA. 35+00 TO STA. 45+00		61115		77
S.R. 241	56	STA. 45+00 TO STA. 55+00		54566		0
S.R. 241	57	STA. 55+00 TO STA. 65+00		18222		5876
S.R. 241	58	STA. 65+00 TO STA. 75+00		15309		24
S.R. 241	59	STA. 75+00 TO STA. 85+00		29265		3
S.R. 241	60	STA. 85+00 TO STA. 95+00		18562		4532
S.R. 241	61	STA. 95+00 TO STA. 105+00	1736	3622	174	6241
S.R. 241	62	STA. 105+00 TO STA. 115+00	17730		20998	
S.R. 241	63	STA. 115+00 TO STA. 125+00	11930		8461	
S.R. 241	64	STA. 125+00 TO STA. 135+00	20863		213	
S.R. 241	65	STA. 135+00 TO STA. 145+00	21188		654	
S.R. 241	66	STA. 145+00 TO STA. 155+00	31922		0	
S.R. 241	67	STA. 155+00 TO STA. 159+00	3656		0	
S.R. 241	68	STA. 159+00 TO STA. 163+00	6257		0	
S.R. 241	69	STA. 163+00 TO STA. 167+00	5185		0	
S.R. 241	70	STA. 167+00 TO STA. 171+00	4571		0	
S.R. 241	71	STA. 171+00 TO STA. 175+00	7043		0	
S.R. 241	73	STA. 175+00 TO STA. 179+00	11424		0	
S.R. 241	74	STA. 179+00 TO STA. 183+01.95	4860		5	
MILLERSBURG RD. (RELOCATED)	172	STA. 10+50 TO STA. 21+50		3548		19263
GREENDALE AVE.	173	STA. 8+75 TO STA. 9+50, STA. 10+50 TO STA. 11+75		600		110
17TH ST.	174	STA. 5+00 TO STA. 9+50, STA. 10+50 TO STA. 12+00	1775		5596	
OBERLIN RD.	175	STA. 0+16 TO STA. 3+00	498		398	
9TH ST.	176	STA. 8+50 TO STA. 9+50, STA. 10+50 TO STA. 11+50	781		0	
6TH ST.	177	STA. 8+00 TO STA. 9+00, STA. 10+50 TO STA. 11+50	266		2	
CLEVELAND ST.	178	STA. 3+85 TO STA. 4+00, STA. 6+00 TO STA. 6+60	98		2	
CHANNEL DEEPENING	224	STA. 1+00 TO STA. 5+80	467		0	
MILLERSBURG RD. (EXISTING)	206,209	STA. 50+00 TO STA. 56+00		943		943
		TOTAL	152,250	247,545	36,503	129,316

SEEDING AND MULCHING SUB–SUMMARY

FOR TYPICAL SECTIONS
SEE SHEETS 4 THRU 9.

*AREA CALCULATED BY PLANIMETER

ITEM 659 SEEDING & MULCHING

ROUTE	STATION TO STATION	LENGTH (FT.)	AVG. WIDTH (FT.)	CITY & STATE TOTAL (S.Y.)	STATE TOTAL (S.Y.)
S.R.241	STA. 10+00 TO STA. 11+00	100	*		234
S.R.241	STA. 11+12 TO STA. 15+00	400	75		3333
S.R.241	STA. 15+00 TO STA. 18+00	300	102		3400
S.R.241	STA. 18+00 TO STA. 19+70	170	127		2399
S.R.241	STA. 19+70 TO STA. 21+30	160	*		1072
S.R.241	STA. 21+30 TO STA. 21+70	40	192		853
S.R.241	STA. 21+70 TO STA. 25+00	330	217		7957
S.R.241	STA. 25+00 TO STA. 28+00	300	247		8233
S.R.241	STA. 28+00 TO STA. 32+00	400	131		5822
S.R.241	STA. 32+00 TO STA. 35+00	300	146		4867
S.R.241	STA. 35+00 TO STA. 40+50	550	127		7761
S.R.241	STA. 40+50 TO STA. 41+75	125	116		1611
S.R.241	STA. 41+75 TO STA. 43+50	175	153		2975
S.R.241	STA. 43+50 TO STA. 45+00	150	166		2767
S.R.241	STA. 45+00 TO STA. 49+50	450	128		6400
S.R.241	STA. 49+50 TO STA. 51+00	150	121		2017
S.R.241	STA. 51+00 TO STA. 55+00	400	113		5022
S.R.241	STA. 55+00 TO STA. 57+50	250	89		2472
S.R.241	STA. 57+50 TO STA. 58+75	125	*		1263
S.R.241	STA. 58+75 TO STA. 60+50	175	111		2158
S.R.241	STA. 60+50 TO STA. 62+50	200	111		2467
S.R.241	STA. 62+50 TO STA. 65+00	250	106		2944
S.R.241	STA. 65+00 TO STA. 70+00	500	84		4666
S.R.241	STA. 70+00 TO STA. 73+00	300	66		2200
S.R.241	STA. 73+00 TO STA. 75+00	200	73		1622
S.R.241	STA. 75+00 TO STA. 80+00	500	79		4389
S.R.241	STA. 80+00 TO STA. 82+50	250	106		2944
S.R.241	STA. 82+50 TO STA. 85+00	250	111		3083
S.R.241	STA. 85+00 TO STA. 87+50	250	84		2333
S.R.241	STA. 87+50 TO STA. 90+50	300	76		2533
S.R.241	STA. 90+50 TO STA. 92+00	150	106		1767
S.R.241	STA. 92+00 TO STA. 95+00	300	131		4367
S.R.241	STA. 95+00 TO STA. 96+50	150	116		1933
S.R.241	STA. 96+50 TO STA. 98+00	150	111		1850
S.R.241	STA. 98+00 TO STA. 102+00	400	115	2468	2643
S.R.241	STA. 102+00 TO STA. 103+25	125	85	1181	
S.R.241	STA. 103+25 TO STA. 105+00	175	85	1653	
S.R.241	STA. 105+00 TO STA. 109+00	400	93	4133	
S.R.241	STA. 109+00 TO STA. 110+50	150	98	1633	
S.R.241	STA. 110+50 TO STA. 111+00	50	94	522	
S.R.241	STA. 111+00 TO STA. 111+50	50	108	600	
S.R.241	STA. 111+50 TO STA. 113+50	200	137	3044	
S.R.241	STA. 113+50 TO STA. 115+00	150	174	2900	
S.R.241	STA. 115+00 TO STA. 120+23	523	*	7200	
S.R.241	STA. 120+23 TO STA. 122+00	177	86	1691	
S.R.241	STA. 122+00 TO STA. 124+50	250	80	2222	
S.R.241	STA. 124+50 TO STA. 125+00	50	77	428	
S.R.241	STA. 125+00 TO STA. 126+00	100	88	978	
S.R.241	STA. 126+00 TO STA. 127+00	100	76	844	
S.R.241	STA. 127+00 TO STA. 128+00	100	81	900	
	SUBTOTAL			32,397	114,357

ITEM 659 SEEDING & MULCHING

ROUTE	STATION TO STATION	LENGTH (FT.)	AVG. WIDTH (FT.)	CITY & STATE TOTAL (S.Y.)	STATE TOTAL (S.Y.)
S.R.241	STA. 128+00 TO STA. 129+00	100	104	1155	
S.R.241	STA. 129+00 TO STA. 131+50	250	*	3064	
S.R.241	STA. 131+50 TO STA. 133+00	150	*	997	
S.R.241	STA. 133+00 TO STA. 135+00	200	61	1356	
S.R.241	STA. 135+00 TO STA. 139+00	400	66	2933	
S.R.241	STA. 139+00 TO STA. 141+00	200	*	1982	
S.R.241	STA. 141+00 TO STA. 145+00	400	96	4267	
S.R.241	STA. 145+00 TO STA. 147+00	200	150	3333	
S.R.241	STA. 147+00 TO STA. 148+00	100	115	1278	
S.R.241	STA. 148+00 TO STA. 149+50	150	89	1483	
S.R.241	STA. 149+50 TO STA. 151+50	200	*	2113	
S.R.241	STA. 151+50 TO STA. 155+00	350	29	1128	
S.R.241	STA. 155+00 TO STA. 158+80	380	87	3673	
S.R.241	STA. 158+80 TO STA. 159+00	20	44	98	
S.R.241	STA. 159+00 TO STA. 159+85	85	64	604	
S.R.241	STA. 159+85 TO STA. 161+75	190	86	1816	
S.R.241	STA. 161+75 TO STA. 163+00	125	86	1194	
S.R.241	STA. 163+00 TO STA. 165+00	200	85	1889	
S.R.241	STA. 165+00 TO STA. 166+50	150	*	950	
S.R.241	STA. 166+50 TO STA. 167+00	50	82	455	
S.R.241	STA. 167+00 TO STA. 171+00	400	82	3644	
S.R.241	STA. 171+00 TO STA. 173+50	265	82	2414	
S.R.241	STA. 173+65 TO STA. 175+00	135	53	795	
S.R.241	STA. 175+00 TO STA. 175+50	50	93	517	
S.R.241	STA. 175+50 TO STA. 176+50	100	100	1111	
S.R.241	STA. 176+50 TO STA. 177+50	100	67	744	
S.R.241	STA. 177+50 TO STA. 179+00	150	37	616	
S.R.241	STA. 179+00 TO STA. 181+42	242	41	1102	
S.R.241	STA. 181+42 TO STA. 183+02	160	*	600	
REL. MLRSBG. RD.	STA. 11+00 TO STA. 12+00	100	178		1978
REL. MLRSBG. RD.	STA. 12+00 TO STA. 14+00	200	158		3511
REL. MLRSBG. RD.	STA. 14+00 TO STA. 16+00	200	145		3222
REL. MLRSBG. RD.	STA. 16+00 TO STA. 21+50	550	90		5500
EX. MLRSBG. RD.	STA. 50+50 TO STA. 51+50	100	36		400
EX. MLRSBG. RD.	STA. 51+50 TO STA. 54+00	250	60		1667
EX. MLRSBG. RD.	STA. 54+00 TO STA. 56+00	200	37.5		834
GRNDALE AVE.	STA. 7+50 TO STA. 9+45	195	*		500
GRNDALE AVE.	STA. 11+15 TO STA. 13+50	235	*		711
17TH STREET	STA. 5+00 TO STA. 7+00	200	30	667	
17TH STREET	STA. 7+00 TO STA. 9+00	200	120	2667	
17TH STREET	STA. 11+00 TO STA. 12+00	100	95	1056	
OBERLIN RD.	STA. 0+00 TO STA. 3+00	300	50	1667	
9TH STREET	STA. 6+70 TO STA. 8+50	180	17.5	350	
9TH STREET	STA. 8+50 TO STA. 9+00	50	42.5	236	
9TH STREET	STA. 11+00 TO STA. 12+00	50	36	200	
9TH STREET	STA. 11+50 TO STA. 13+30	180	17.5	350	
6TH STREET	STA. 8+00 TO STA. 9+00	100	5.5	61	
6TH STREET	STA. 10+50 TO STA. 11+50	100	*	58	
CLEVELAND ST.	STA. 5+50 TO STA. 7+20	170	5	94	
	SUBTOTAL			54,717	18,323
	SHEET TOTAL			87,114	132,680

ITEM 659 – COMMERCIAL FERTILIZER

CITY & STATE
87,114 SQ. YD. x 9 = 784,026 SQ. FT.
784,026 SQ. FT. x 20 LBS./1000 SQ. FT. ÷ 2000 LBS./TON = 7.8 TONS

STATE
132,680 SQ. YD. x 9 = 1,194,120 SQ. FT.
1,194,120 SQ. FT. x 20 LBS./1000 SQ.FT. ÷ 2000 LBS./TON = 11.9 TONS

ITEM 659 – COMMERCIAL FERTILIZER

CITY & STATE
87,114 SQ. YD. x 9 = 784,026 SQ.FT.
784,026 SQ. FT. x 100 LBS./1000 SQ. FT. ÷ 2000 LBS./TON = 39.2 TONS

STATE
132,680 SQ. YD. x 9 = 1,194,120 SQ. FT.
1,194,120 SQ. FT. x 100 LBS./1000 SQ. FT. ÷ 2000 LBS./TON = 59.7 TONS

CALC. BY KJS DATE 6/91	STA – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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EROSION PROTECTION SUB–SUMMARY

EROSION PROTECTION SUB–SUMMARY			601		601		670		840	
			ROCK CHANNEL PROTECTION TYPE C W/FILTER (18" THICK)		ROCK CHANNEL PROTECTION TYPE D W/FILTER (18" THICK)		DITCH EROSION PROTECTION		SEEDING AND NYLON FIBER MATTING, AS PER PLAN	
			CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE
ROUTE	SHEET	STATION TO STATION	C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	S.Y.	S.Y.	S.Y.
S.R. 241	51	STA. 11+00 TO STA. 15+00						668		
S.R. 241	52	STA. 15+00 TO STA. 25+00				12.5		838		
S.R. 241	53	STA. 25+00 TO STA. 35+00				7.5		1062		563
S.R. 241	55	STA. 35+00 TO STA. 45+00				14		541		
S.R. 241	56	STA. 45+00 TO STA. 55+00						1625		
S.R. 241	57	STA. 55+00 TO STA. 65+00		8				562		219
S.R. 241	58	STA. 65+00 TO STA. 75+00				17		1167		196
S.R. 241	59	STA. 75+00 TO STA. 85+00				12		1500		167
S.R. 241	60	STA. 85+00 TO STA. 95+00				11		1500		167
S.R. 241	61	STA. 95+00 TO STA. 105+00					501	283	20	563
S.R. 241	62	STA. 105+00 TO STA. 115+00					483		150	
S.R. 241	63	STA. 115+00 TO STA. 125+00	4				542		191	
S.R. 241	64	STA. 125+00 TO STA. 135+00	4		16		1113			
S.R. 241	65	STA. 135+00 TO STA. 145+00	4				1250		367	
S.R. 241	66	STA. 145+00 TO STA. 150+00					709		211	
17TH STREET	174	STA. 6+85 TO S.TA. 9+00					180			
OBERLIN RD.	175	STA. 0+63 TO STA. 2+25					139			
		TOTAL	12	8	16	74	4,917	9,746	939	1,875

STA – 241 – 4.22

241PROT

CALC. BY KJS DATE 6/91	STA – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

43/303

BUILDINGS DEMOLISHED SUB-SUMMARY

SHEET NO.	STREET NAME	202 BUILDINGS DEMOLISHED, 2 1/2 STORY FRAME HOUSE		202 BUILDINGS DEMOLISHED, 2 STORY FRAME HOUSE		202 BUILDINGS DEMOLISHED, 2 STORY BRICK HOUSE		202 BUILDINGS DEMOLISHED, 1 1/2 STORY FRAME HOUSE			202 BUILDINGS DEMOLISHED, 1 STORY FRAME HOUSE			202 BUILDINGS DEMOLISHED, 1 STORY CONCRETE BLOCK HOUSE		202 BUILDINGS DEMOLISHED, 1 STORY STONE HOUSE		202 BUILDINGS DEMOLISHED FRAME GARAGE			202 BUILDINGS DEMOLISHED CONCRETE BLOCK GARAGE		202 BUILDINGS DEMOLISHED FRAME BARN		202 BUILDINGS DEMOLISHED SHED		202 BUILDINGS DEMOLISHED CORN CRIB
		CITY & STATE		CITY & STATE		CITY & STATE		CITY & STATE	STATE		CITY & STATE	STATE		CITY & STATE		CITY & STATE		CITY & STATE	STATE		CITY & STATE		STATE		CITY & STATE	STATE	STATE
		L.S		L.S		L.S		L.S	L.S		L.S	L.S		L.S		L.S		L.S	L.S		L.S		L.S		L.S	L.S	L.S
53	S.R. 241											L.S.											L.S.			L.S.	L.S.
55	S.R. 241																									L.S.	
56	S.R. 241																									L.S.	
62	S.R. 241																								L.S.		
63	S.R. 241							L.S.										L.S.									
66	S.R. 241			L.S.				L.S.										L.S.							L.S.		
68	S.R. 241			L.S.							L.S.							L.S.									
69	S.R. 241			L.S.				L.S.										L.S.			L.S.				L.S.		
70	S.R. 241	L.S.		L.S.				L.S.										L.S.							L.S.		
71	S.R. 241			L.S.							L.S.			L.S.		L.S.		L.S.			L.S.						
73	S.R. 241					L.S.					L.S.														L.S.		
74	S.R. 241			L.S.		L.S.																					
172	MILLERSBURG ROAD RELOCATED								L.S.										L.S.								
TOTALS		L.S		L.S		L.S		L.S	L.S		L.S			L.S		L.S		L.S	L.S		L.S		L.S		L.S.	L.S.	L.S.

BUILDINGS DEMOLISHED SUB–SUMMARY

NOTE: QUANTITY TOTALS CARRIED TO SHEET 43.

MILLERSBURG ROAD SHEET 172

REF.	LOCATION	202 BUILDINGS DEMOLISHED 1–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE
		L.S.	L.S.
BD–1	STA. 15+10, 140' RT. (PARCEL 3)	L.S.	
BD–2	STA. 14+15, 100' RT. (PARCEL 3)		L.S.
TOTALS		L.S.	L.S.

S.R. 241 SHEET 53

REF.	LOCATION	202 BUILDINGS DEMOLISHED 1 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME BARN	202 BUILDINGS DEMOLISHED SHED	202 BUILDINGS DEMOLISHED CORN CRIB
		L.S.	L.S.	L.S.	L.S.
BD–1	STA. 31+10, 130' LT. (PARCEL 5)	L.S.			
BD–2	STA. 32+30, 50' LT. (PARCEL 5)		L.S.		
BD–3	STA. 32+60, 20' LT. (PARCEL 5)			L.S.	
BD–4	STA. 31+90, 10' RT. (PARCEL 5)				L.S.
BD–5	STA. 30+60, 50' LT. (PARCEL 5)			L.S.	
TOTALS		L.S.	L.S.	L.S.	L.S.

S.R. 241 SHEET 55

REF.	LOCATION	202 BUILDINGS DEMOLISHED SHED
		L.S.
BD–1	STA. 35+10, 70' RT. (PARCEL 5)	L.S.
TOTALS		L.S.

S.R. 241 SHEET 56

REF.	LOCATION	202 BUILDINGS DEMOLISHED SHED
		L.S.
BD–1	STA. 53+97, 55' RT. (PARCEL 9)	L.S.
TOTALS		L.S.

S.R. 241 SHEET 62

REF.	LOCATION	202 BUILDINGS DEMOLISHED SHED
		L.S.
BD–1	STA. 108+55, 50' RT. (PARCEL 17)	L.S.
TOTALS		L.S.

S.R. 241 SHEET 63

REF.	LOCATION	202 BUILDINGS DEMOLISHED 1–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE
		L.S.	L.S.
BD–1	STA. 117+35, 30' LT. (PARCEL 24)	L.S.	
BD–2	STA. 118+75, 80' RT. (PARCEL 24)		L.S.
TOTALS		L.S.	L.S.

S.R. 241 SHEET 66

REF.	LOCATION	202 BUILDINGS DEMOLISHED 1–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED SHED	202 BUILDINGS DEMOLISHED FRAME GARAGE	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.
		L.S.	L.S.	L.S.	L.S.
BD–1	STA. 149+65, 100' RT. (PARCEL 35)	L.S.			
BD–2	STA. 148+80, 85' RT. (PARCEL 35)		L.S.		
BD–3	STA. 149+80, 50' RT. (PARCEL 36)	L.S.			
BD–4	STA. 149+75, 5' LT. (PARCEL 36)			L.S.	
BD–5	STA. 150+10, 100' LT. (PARCEL 37)				L.S.
BD–6	STA. 149+80, 35' LT. (PARCEL 37)			L.S.	
TOTALS		L.S.	L.S.	L.S.	L.S.

S.R. 241 SHEET 68

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED 1 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE
		L.S.	L.S.	L.S.
BD–1	STA. 159+75, 20' RT. (PARCEL 40)	L.S.		
BD–2	STA. 159+60, 35' LT. (PARCEL 40)			L.S.
BD–3	STA. 160+90, 15' RT. (PARCEL 42)		L.S.	
BD–4	STA. 161+30, 15' RT. (PARCEL 43)	L.S.		
BD–5	STA. 161+70, 15' RT. (PARCEL 44)	L.S.		
BD–6	STA. 162+55, 15' RT. (PARCEL 45)	L.S.		
BD–7	STA. 162+15, 25' LT. (PARCEL 45)			L.S.
BD–8	STA. 162+90, 15' RT. (PARCEL 46)	L.S.		
BD–9	STA. 162+80, 35' LT. (PARCEL 46)			L.S.
TOTALS		L.S.	L.S.	L.S.

S.R. 241 SHEET 69

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED 1–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE	202 BUILDINGS DEMOLISHED CONC. BLOCK GARAGE	202 BUILDINGS DEMOLISHED SHED
		L.S.	L.S.	L.S.	L.S.	L.S.
BD–1	STA. 163+30, 10' RT. (PARCEL 47)	L.S.				
BD–2	STA. 163+15, 40' LT. (PARCEL 47)					L.S.
BD–3	STA. 163+70, 15' RT. (PARCEL 48)		L.S.			
BD–4	STA. 164+50, 15' RT. (PARCEL 49)	L.S.				
BD–5	STA. 164+10, 5' RT. (PARCEL 49)			L.S.		
BD–6	STA. 164+90, 10' RT. (PARCEL 50)	L.S.				
BD–7	STA. 165+30, 15' RT. (PARCEL 51)	L.S.				
BD–8	STA. 166+55, 10' RT. (PARCEL 52)	L.S.				
BD–9	STA. 166+70, 35' LT. (PARCEL 52)				L.S.	
TOTALS		L.S.	L.S.	L.S.	L.S.	L.S.

S.R. 241 SHEET 70

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED 1–1/2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE	202 BUILDINGS DEMOLISHED SHED
		L.S.	L.S.	L.S.	L.S.	L.S.
BD–1	STA. 167+05, 10' RT. (PARCEL 53)	L.S.				
BD–2	STA. 167+80, 15' RT. (PARCEL 54)		L.S.			
BD–3	STA. 167+85, 30' LT. (PARCEL 54)				L.S.	
BD–4	STA. 168+15, 15' RT. (PARCEL 55)		L.S.			
BD–5	STA. 168+35, 45' LT. (PARCEL 55)				L.S.	
BD–6	STA. 168+65, 15' RT. (PARCEL 56)			L.S.		
BD–7	STA. 168+45, 40' LT. (PARCEL 56)				L.S.	
BD–8	STA. 168+60, 45' LT. (PARCEL 56)					L.S.
BD–9	STA. 169+00, 15' RT. (PARCEL 57)		L.S.			
BD–10	STA. 169+20, 40' LT. (PARCEL 57)				L.S.	
BD–11	STA. 169+85, 45' LT. (PARCEL 57)					L.S.
BD–12	STA. 170+25, 15' RT. (PARCEL 58)		L.S.			
BD–13	STA. 170+65, 15' RT. (PARCEL 59)		L.S.			
BD–14	STA. 171+00, 15' RT. (PARCEL 60)		L.S.			
BD–15	STA. 170+90, 30' LT. (PARCEL 60)				L.S.	
TOTALS		L.S.	L.S.	L.S.	L.S.	L.S.

S.R. 241 SHEET 71

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED 1 STY. CONC. BLOCK HSE.	202 BUILDINGS DEMOLISHED 1 STY. STONE HSE.	202 BUILDINGS DEMOLISHED 1 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED FRAME GARAGE	202 BUILDINGS DEMOLISHED CONC. BLOCK GARAGE
		L.S.	L.S.	L.S.	L.S.	L.S.	L.S.
BD–1	STA. 171+45, 15' RT. (PARCEL 61)		L.S.				
BD–2	STA. 172+25, 5' RT. (PARCEL 62)			L.S.			
BD–3	STA. 172+50, 35' LT. (PARCEL 62)					L.S.	
BD–4	STA. 173+00, 35' LT. (PARCEL 63)				L.S.		
BD–5	STA. 173+40, 40' LT. (PARCEL 63)						L.S.
BD–6	STA. 173+80, 10' RT. (PARCEL 63)	L.S.					
BD–7	STA. 173+80, 40' LT. (PARCEL 63)					L.S.	
TOTALS		L.S.	L.S.	L.S.	L.S.	L.S.	L.S.

S.R. 241 SHEET 73

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2 STY. BRICK HSE.	202 BUILDINGS DEMOLISHED 1 STY. FRM. HSE.	202 BUILDINGS DEMOLISHED SHED
		L.S.	L.S.	L.S.
BD–1	STA. 175+30, 40' LT. (PARCEL 64)	L.S.		
BD–2	STA. 175+65, 45' RT. (PARCEL 65)		L.S.	
BD–3	STA. 176+15, 30' RT. (PARCEL 65)			L.S.
TOTALS		L.S.	L.S.	L.S.

S.R. 241 SHEET 74

REF.	LOCATION	202 BUILDINGS DEMOLISHED 2 STY. BRICK HSE.	202 BUILDINGS DEMOLISHED 2 STY. FRM. HSE.
		L.S.	L.S.
BD–1	STA. 181+50, 70' LT. (PARCEL 72)	L.S.	
BD–2	STA. 181+60, 35' LT. (PARCEL 72)		L.S.
TOTALS		L.S.	L.S.

GENERAL SUMMARY

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STA-241-4.22

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ITEM	SHEET NUMBER	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
								ROADWAY
201	13 LUMP	LUMP	LUMP	201	11000	LUMP	LUMP SUM	CLEARING & GRUBBING
202	37 LUMP	LUMP	LUMP	202	11000	LUMP	LUMP SUM	STRUCTURES REMOVED
202	37 3,745	3,745		202	23000	3,745	SQ. YD.	PAVEMENT REMOVED
202	37 13,411	14,111		202	30000	14,111	SQ. FT.	WALK REMOVED
202	37 LUMP	LUMP		202	30204	LUMP	LUMP SUM	STEPS REMOVED
202	37 272		272	202	30600	272	SQ. YD.	CONCRETE MEDIAN REMOVED
202	18 700; 38 2,929	3,089		202	32000	3,089	LIN. FT.	CURB REMOVED
202	38 871	871		202	32500	871	LIN. FT.	CURB AND GUTTER REMOVED
202	37 259	164	95	202	35100	259	LIN. FT.	PIPE REMOVED, 24" AND UNDER
202	37 78	78		202	35200	78	LIN. FT.	PIPE REMOVED, OVER 24"
202	37 2,280.5	360.5	1,920	202	38000	2,280.5	LIN. FT.	GUARDRAIL REMOVED
202	37 2	2		202	58000	2	EACH	MANHOLE REMOVED
202	37 7	6	1	202	58100	7	EACH	CATCH BASIN REMOVED
202	37 1		1	202	62700	1	EACH	SEPTIC TANK REMOVED
202	37 5,486; 18 185	2,166	3,505	202	75000	5,671	LIN. FT.	FENCE REMOVED
203	1 19,860; 39 1,538; 40 399,795	165,412	255,781	203	12000	421,193	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	1 19,860; 39 260; 40 165,819	48,556	137,383	203	20000	185,939	CU. YD.	EMBANKMENT
203	1 8,888	6,248	2,640	203	40101	8,888	CU. YD.	BORROW, USING GRANULAR MATERIAL, AS PER PLAN (SEE SHEET 13)
203	1 11,237	9,766	1,471	203	40101	11,237	CU. YD.	BORROW, USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL
203	1 20	10	10	203	45000	20	HOUR	PROOF ROLLING
203	31 107,342	50,187	57,155	203	50000	107,342	SQ. YD.	SUBGRADE COMPACTION
604	38 33	18	15	604	38500	33	EACH	MONUMENT ASSEMBLIES
606	37 1,068.75	37.5	1,031.25	606	13000	1,068.75	LIN. FT.	GUARDRAIL, TYPE 5
606	37 306.25	293.75	12.5	606	15500	306.25	LIN. FT.	GUARDRAIL, BARRIER DESIGN, TYPE 5
606	38 4	1	3	606	25000	4	EACH	ANCHOR ASSEMBLY, TYPE A
606	38 1		1	606	26500	1	EACH	ANCHOR ASSEMBLY, TYPE T
607	38 2,911; 18 185	3,096		607	20000	3,096	LIN. FT.	FENCE, TYPE CL
608	37 2,323; 18 700	3,023		608	10000	3,498	SQ. FT.	4" CONCRETE WALK
608	38 5	5		608	51000	5	EACH	CURB RAMP, TYPE 2
609	38 25	25		609	10000	25	LIN. FT.	ASPHALT CONCRETE CURB, AC-20, TYPE 1

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GENERAL SUMMARY

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ITEM	SHEET NUMBER																							CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
	14		15		31		32		34				39		41		42		235			18		19			225						
																														EROSION CONTROL
207	44,000																							22,000	22,000	207	10000	44,000	SQ. YD.	TEMPORARY SEEDING & MULCHING
207	500																							250	250	207	30000	500	LIN. FT.	FILTER FABRIC FENCE
207	400																		560					560	400	207	40000	960	LIN. FT.	TEMPORARY SLOPE DRAINS
207	2,000																		6,255					4,080	4,175	207	50000	8,255	CU. YD.	TEMPORARY BENCHES, DAMS & SEDIMENT BASINS
207																			5,920					2,350	3,570	207	55000	5,920	LIN. FT.	TEMPORARY DIKES
207	264																		300					264	300	207	70000	564	EACH	STRAW OR HAY BALES
601									110.2															50.4	59.8	601	11000	110.2	SQ. YD.	RIP RAP USING 6" REINFORCED CONCRETE SLAB
601									38.4															13.4	25	601	32000	38.4	CU. YD.	ROCK CHANNEL PROTECTION TYPE A WITH FILTER
601	10								113.4															111.7	11.7	601	32100	123.4	CU. YD.	ROCK CHANNEL PROTECTION TYPE B WITH FILTER
601																	20							12	8	601	32200	20	CU. YD.	ROCK CHANNEL PROTECTION TYPE C WITH FILTER
601																	90							16	74	601	32300	90	CU. YD.	ROCK CHANNEL PROTECTION TYPE D WITH FILTER
601	16																		51.1					30.2	36.9	601	34200	67.1	CU. YD.	ROCK CHANNEL PROTECTION TYPE C WITHOUT FILTER
659															219,794									87,114	132,680	659	10000	219,794	SQ. YD.	SEEDING AND MULCHING
659	11,000																							5,500	5,500	659	14000	11,000	SQ. YD.	REPAIR SEEDING AND MULCHING
659	9.4														19.7									12.5	16.6	659	20000	29.2	TON	COMMERCIAL FERTILIZER
659															98.9									39.2	59.7	659	30000	98.9	TON	AGRICULTURAL LIMING
659	350																							150	200	659	35000	350	M. GAL.	WATER
659	600																							250	350	659	40000	555	M. SQ. FT.	MOWING
670																	14,663							4,917	9,746	670	40000	14,663	SQ. YD.	DITCH EROSION PROTECTION
670																	2,814							939	1,875	840	09901	2,814	SQ. YD.	SEEDING & NYLON FIBER MATTING, TYPE I, AS PER PLAN (SEE SHEET 15)
																														PAVEMENT
301					23,579								152											11,131	12,600	301	10002	23,731	CU. YD.	BITUMINOUS AGGREGATE BASE, AC-20
304					18,680																109			8,848	9,941	304	20001	18,826	CU. YD.	AGGREGATE BASE, AS PER PLAN
402					3,513																			1,807	1,706	402	20000	3,513	CU. YD.	ASPHALT CONCRETE, AC-20
404					2,510																			1,291	1,219	404	20000	2,510	CU. YD.	ASPHALT CONCRETE, AC-20
404													31											31		404	25000	31	CU. YD.	ASPHALT CONCRETE, AC-20 (DRIVEWAYS)
411													523								11		90	420	204	411	10000	624	CU. YD.	STABILIZED CRUSHED AGGREGATE
452													58											58		452	10000	58	SQ. YD.	6" PLAIN CONCRETE PAVEMENT
452																							92	92		452	13001	92	SQ. YD.	9" PLAIN CONCRETE PAVEMENT, AS PER PLAN (SEE SHEET 13)
609					7,052																			7,052		609	12000	7,052	LIN. FT.	COMBINATION CURB AND GUTTER, TYPE 2
609					115																160			275		609	26000	440	LIN. FT.	CURB, TYPE 6
																														DRAINAGE
602									37.3															31.8	5.5	602	20000	37.3	CU. YD.	CONCRETE MASONRY
603			200																					100	100	603	00400	200	LIN. FT.	4" CONDUIT, TYPE E, 707.19
603	200						643																	395	448	603	00900	843	LIN. FT.	6" CONDUIT, TYPE B
603	200																							100	100	603	01400	200	LIN. FT.	6" CONDUIT, TYPE E
603			200																					100	100	603	01400	200	LIN. FT.	6" CONDUIT, TYPE E, 706.08
603	200						320																	200	320	603	01500	520	LIN. FT.	6" CONDUIT, TYPE F, 707.17 NONPERFORATED, ASTM 3034 SDR 35 OR SS 931
603			200																					100	100	603	02600	200	LIN. FT.	8" CONDUIT, TYPE F

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ITEM	SHEET NUMBER	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
603	34: 945	945		603	04400	945	LIN. FT.	12" CONDUIT, TYPE B 706.02
603	34: 235	235		603	04600	235	LIN. FT.	12" CONDUIT, TYPE C 706.02
603	34: 34	34		603	04900	34	LIN. FT.	12" CONDUIT, TYPE D 706.02
603	34: 40		40	603	04900	40	LIN. FT.	12" CONDUIT, TYPE D 706.02 OR 707.01
603	34: 179	179		603	05700	179	LIN. FT.	15" CONDUIT, TYPE A 706.02
603	34: 103		103	603	05700	103	LIN. FT.	15" CONDUIT, TYPE A 706.02 OR 18" 707.01(0.109), 707.04 (0.079), 707.05 (0.079), OR 707.09
603	34: 46	46		603	05900	46	LIN. FT.	15" CONDUIT, TYPE B 706.02
603	34: 75	75		603	06100	75	LIN. FT.	15" CONDUIT, TYPE C 706.02
603	34: 85		85	603	08700	85	LIN. FT.	24" CONDUIT, TYPE A 706.02, 707.01 (0.109), 707.04 (0.079), 707.05 (0.079), OR 707.09
603	34: 110	110		603	10400	110	LIN. FT.	24" CONDUIT, TYPE B 706.02
603	35: 37	37		603	12400	37	LIN. FT.	27" CONDUIT, TYPE D 706.02
603	35: 111	111		603	13200	111	LIN. FT.	30" CONDUIT, TYPE A 706.02
603	35: 151		151	603	16200	151	LIN. FT.	36" CONDUIT, TYPE A 706.02 OR 42" 707.09 (0.109)
603	35: 85	85		603	16400	85	LIN. FT.	36" CONDUIT, TYPE B 706.02
603	35: 330	330		603	16600	330	LIN. FT.	36" CONDUIT, TYPE C 706.02
603	35: 35	35		603	16900	35	LIN. FT.	36" CONDUIT, TYPE D 706.02
603	35: 25	25		603	19400	25	LIN. FT.	42" CONDUIT, TYPE B 706.02
603	35: 445	445		603	19400	445	LIN. FT.	42" CONDUIT, TYPE B 706.02 1250 D-LOAD
603	35: 1,841	1,841		603	19600	1,841	LIN. FT.	42" CONDUIT, TYPE C 706.02
603	35: 781	781		603	19600	781	LIN. FT.	42" CONDUIT, TYPE C 706.02 1250 D-LOAD
603	35: 64	64		603	19601	64	LIN. FT.	42" CONDUIT, TYPE C 706.02 3000 D-LOAD WALL C AS PER PLAN
603	35: 109	109		603	20700	109	LIN. FT.	48" CONDUIT, TYPE A 706.02
603	35: 296		296	603	20700	296	LIN. FT.	48" CONDUIT, TYPE A 706.02 2750 D-LOAD OR 54" 707.09 (0.168), OR 54" 707.02 FIELD PAVED AS PER PLAN
603	35: 131	131		603	30000	131	LIN. FT.	96" CONDUIT, TYPE A 706.02
603	35: 218	218		603	30000	218	LIN. FT.	96" CONDUIT, TYPE A 706.02 1250 D-LOAD
604	36: 4	4		604	00500	4	EACH	CATCH BASIN NO. 3 WITH V GRATE
604	36: 23	23		604	00700	23	EACH	CATCH BASIN NO. 3A WITH V GRATE
604	35: 3	3		604	01700	3	EACH	CATCH BASIN NO. 5 WITH B GRATE
604	36: 2	2		604	04100	2	EACH	CATCH BASIN NO. 2-2-A
604	18: 1	1		604	09000	1	EACH	CATCH BASIN ADJUSTED TO GRADE
604	35: 11	11		604	31500	11	EACH	MANHOLE NO. 3
604	36: 4	4		604	35500	4	EACH	MANHOLE, RECONSTRUCTED TO GRADE
SPEC.	32:	10	22	SPEC.	60436600	32	EACH	PRECAST REINFORCED CONCRETE OUTLET
605	32: 7,736	2,275	5,461	605	11100	7,736	LIN. FT.	6" SHALLOW PIPE UNDERDRAIN
605	32: 25,253	9,350	15,903	605	12200	25,253	LIN. FT.	6" DEEP PIPE UNDERDRAIN
605	200:	100	100	605	13401	200	LIN. FT.	6" UNCLASSIFIED PIPE UNDERDRAIN 707.01 TYPE III OR 707.21 TYPE III AS PER PLAN OR 707.15
605	200:	100	100	605	32200	200	LIN. FT.	AGGREGATE DRAINS FOR SPRINGS

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CHKD. BY CCH DATE 6/91		FHWA REGION 5

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ITEM	SHEET NUMBER	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
								SANITARY
202	38: 1	1		202	58000	1	EACH	MANHOLE REMOVED
603	34: 79	79		603	00900	79	LIN. FT.	6" CONDUIT, TYPE B 706.08 ASTM C-700 ES W/JOINTS AS PER 706.12
603	15: 200	100	100	603	00900	200	LIN. FT.	6" CONDUIT, TYPE B 706.08 WITH JOINTS AS PER 706.12
603	15: 200		200	603	01100	200	LIN. FT.	6" CONDUIT, TYPE C
603	15: 200	100	100	603	01100	200	LIN. FT.	6" CONDUIT, TYPE C 706.08 WITH JOINTS AS PER 706.12
603	34: 35	35		603	01800	35	LIN. FT.	8" CONDUIT, TYPE B 706.08 WITH JOINTS AS PER 706.12
603	34: 73	73		603	04400	73	LIN. FT.	12" CONDUIT, TYPE B 706.08 ASTM C-700 ES W/JOINTS AS PER 706.12
604	36: 1	1		604	31501	1	EACH	MANHOLE No. 3, AS PER PLAN, TYPE A (SEE SHEET 240)
604	176: 1	1		604	34500	1	EACH	MANHOLE, ADJUSTED TO GRADE
604	35: 9	9		604	35501	9	EACH	MANHOLE, RECONSTRUCTED TO GRADE AS PER PLAN (SEE SHEET 240)
604	15: 2		2	604	37000	2	EACH	INSPECTION WELLS
								BUILDING DEMOLITION
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.3, 1 1/2 STORY FRAME RESIDENCE
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.3, FRAME GARAGE
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, 1 STORY FRAME RESIDENCE
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, FRAME BARN
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, SHED
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, SHED
202	43: LUMP		LUMP	202	56000	LUMP.	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, CORN CRIB
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.5, SHED
202	43: LUMP		LUMP	202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.9, SHED
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.17, SHED
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.24, 1 1/2 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.24, FRAME GARAGE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.35, 1 1/2 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.35, SHED
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.36, 1 1/2 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.36, FRAME GARAGE
202	43: LUMP			202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.37, FRAME GARAGE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.37, 2 STORY FRAME RESIDENCE
		LUMP						
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.40, 2 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.40, FRAME GARAGE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.42, 1 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.43, 2 STORY FRAME RESIDENCE
202	43: LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.44, 2 STORY FRAME RESIDENCE

GENERAL SUMMARY

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ITEM	SHEET NUMBER 43	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
								BUILDING DEMOLITION (CONT'D.)
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.45, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.45, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.46, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.46, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.47, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.47, SHED
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.48, 1 1/2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.49, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.49, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.50, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.50, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.52, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.52, CONCRETE BLOCK GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.53, 2 1/2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.54, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.54, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.55, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.55, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.56, 1 1/2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.56, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.56, SHED
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.57, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.57, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.57, SHED
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.58, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.59, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.60, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.60, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.61, 1 STORY CONCRETE BLOCK RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.62, 1 STORY STONE RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.62, FRAME GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.63, 1 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.63, CONCRETE BLOCK GARAGE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.63, 2 STORY FRAME RESIDENCE
202	LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.63, FRAME GARAGE

GENERAL SUMMARY

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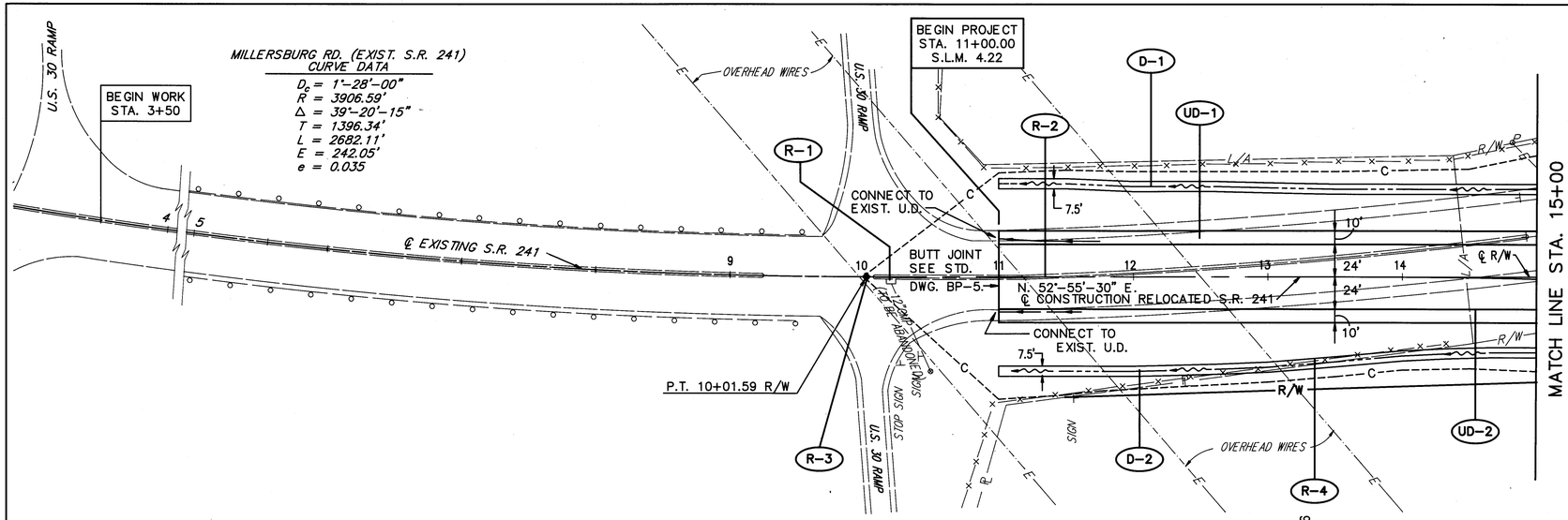
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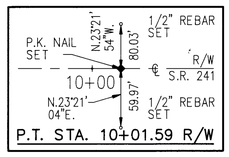
ITEM	SHEET NUMBER 17	19	43	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
										BUILDING DEMOLITION (CONT'D.)
202			LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.64, 2 STORY BRICK RESIDENCE
202			LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.65, 1 STORY FRAME RESIDENCE
202			LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.65, SHED
202			LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.72, 2 STORY BRICK RESIDENCE
202			LUMP	LUMP		202	56000	LUMP	LUMP SUM	BUILDING DEMOLISHED, PARCEL No.72, 2 STORY FRAME RESIDENCE
										MAINTENANCE OF TRAFFIC
404	300			150	150	404	35000	300	CU.YD.	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC
410	1,000			500	500	410	13000	1,000	CU.YD.	TRAFFIC COMPACTED SURFACE, TYPE C
614		0.37			0.37	614	21100	0.37	MILE	TEMPORARY CENTER LINE, CLASS I, 642 PAINT
614		0.49			0.49	614	21300	0.49	MILE	TEMPORARY CENTER LINE, CLASS I, 740.05, TYPE C
614		0.24		0.14	0.10	614	21500	0.24	MILE	TEMPORARY CENTER LINE, CLASS II, 642 PAINT
614		0.17		0.17		614	21700	0.17	MILE	TEMPORARY CENTER LINE, CLASS II, 740.05, TYPE C
614		0.82		0.31	0.51	614	22100	0.82	MILE	TEMPORARY EDGE LINE, CLASS I, 642 PAINT
614		1.70		0.34	1.36	614	22300	1.70	MILE	TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE C
614		200			200	614	23600	200	LIN. FT.	TEMPORARY CHANNELIZING LINE, CLASS I, 740.05, TYPE C
614		30		30		614	26200	30	LIN. FT.	TEMPORARY STOP LINE, CLASS I, 642 PAINT
614		80		56	24	614	26600	80	LIN. FT.	TEMPORARY STOP LINE, CLASS I, 740.05, TYPE C
614		2			2	614	30600	2	EACH	TEMPORARY LANE ARROW, CLASS I 740.05, TYPE C
614		1			1	614	31600	1	EACH	TEMPORARY WORD ON PAVEMENT, 72", CLASS I, 740.05, TYPE C
615		LUMP		LUMP	LUMP	615	10000	LUMP		TEMPORARY ROADS
615		2,755		1,646	1,109	615	25000	2,755	SQ. YD.	TEMPORARY PAVEMENT, CLASS B
616	50			25	25	616	10000	50	M-GAL.	WATER
616	20			10	10	616	20000	20	TON	CALCIUM CHLORIDE
SPECIAL	100			50	50	SPECIAL	61412500	100	SQ. FT.	REPLACEMENT SIGN
SPECIAL	50			25	25	SPECIAL	61412600	50	EACH	REPLACEMENT DRUM
										TRAFFIC CONTROL
										FOR TRAFFIC CONTROL GENERAL SUMMARY
										SEE SHEET 241.
										FOR LIGHTING GENERAL SUMMARY
										SEE SHEET 259.
614				LUMP	LUMP	614	11000	LUMP	LUMP SUM	MAINTAINING TRAFFIC
619				LUMP	LUMP	619	15020	LUMP	LUMP SUM	FIELD OFFICE, TYPE C
623				LUMP	LUMP	623	10000	LUMP	LUMP SUM	CONSTRUCTION LAYOUT STAKES
624				LUMP	LUMP	624	10000	LUMP	LUMP SUM	MOBILIZATION

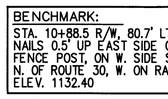
STATE ROUTE 241

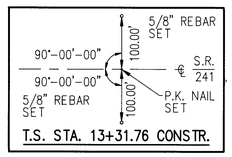
CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

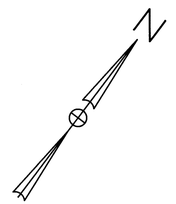
51
303







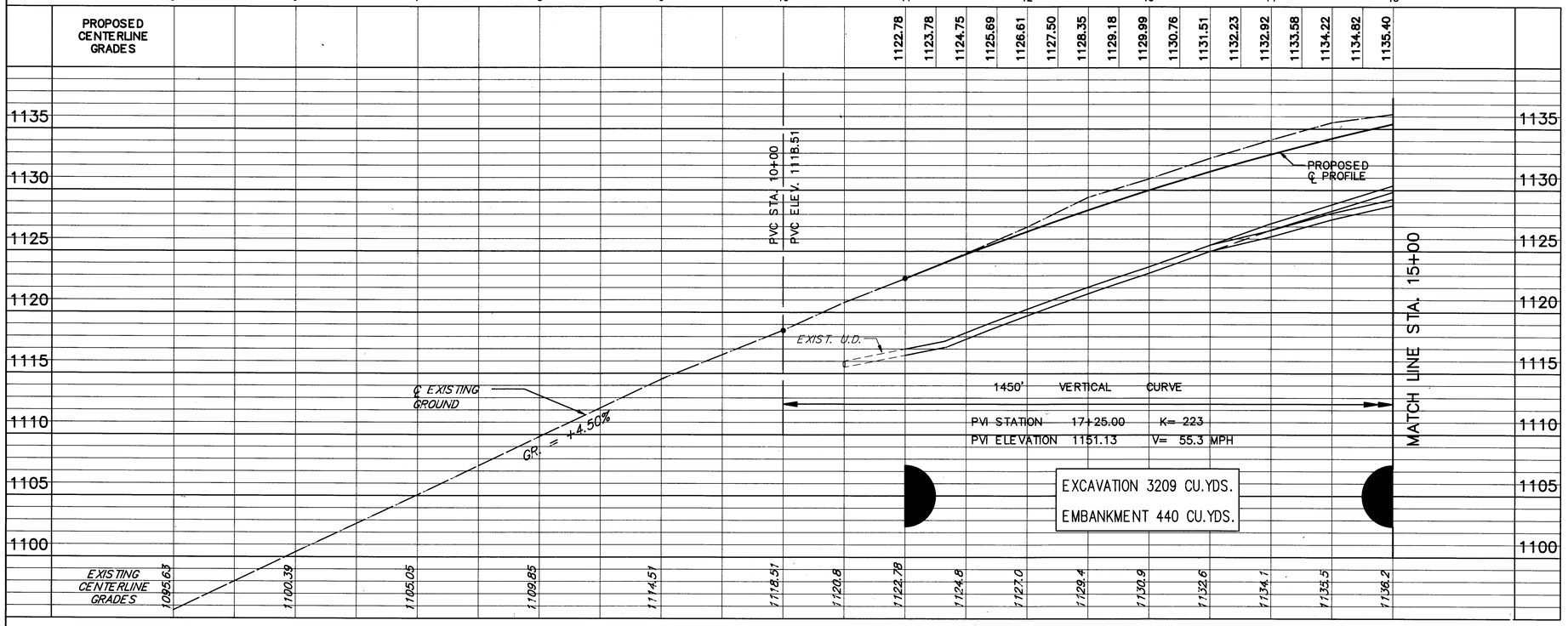




FOR TYPICAL SECTIONS SEE SHEET 4
FOR CROSS–SECTIONS SEE SHEETS 76–78
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 247
FOR UNDERDRAIN QUANTITIES SEE SHEET 33

FOR SUPERELEVATION TABLE, SEE SHEET 11

℄ CURVE DATA
PROPOSED S.R.241
P.I. STATION 17+46.33
D_c = 3°–29'–37"
Δ = 16°–46'–01"
L_s = 345.00'
T_s = 414.57'
R = 1640.00'
L_c = 134.93'
X_c = 344.61'
Y_c = 12.09'
E = 20.77'
θ_s = 6°–01'–35"
e_{max} = 0.054 FT./FT.



DRAINAGE

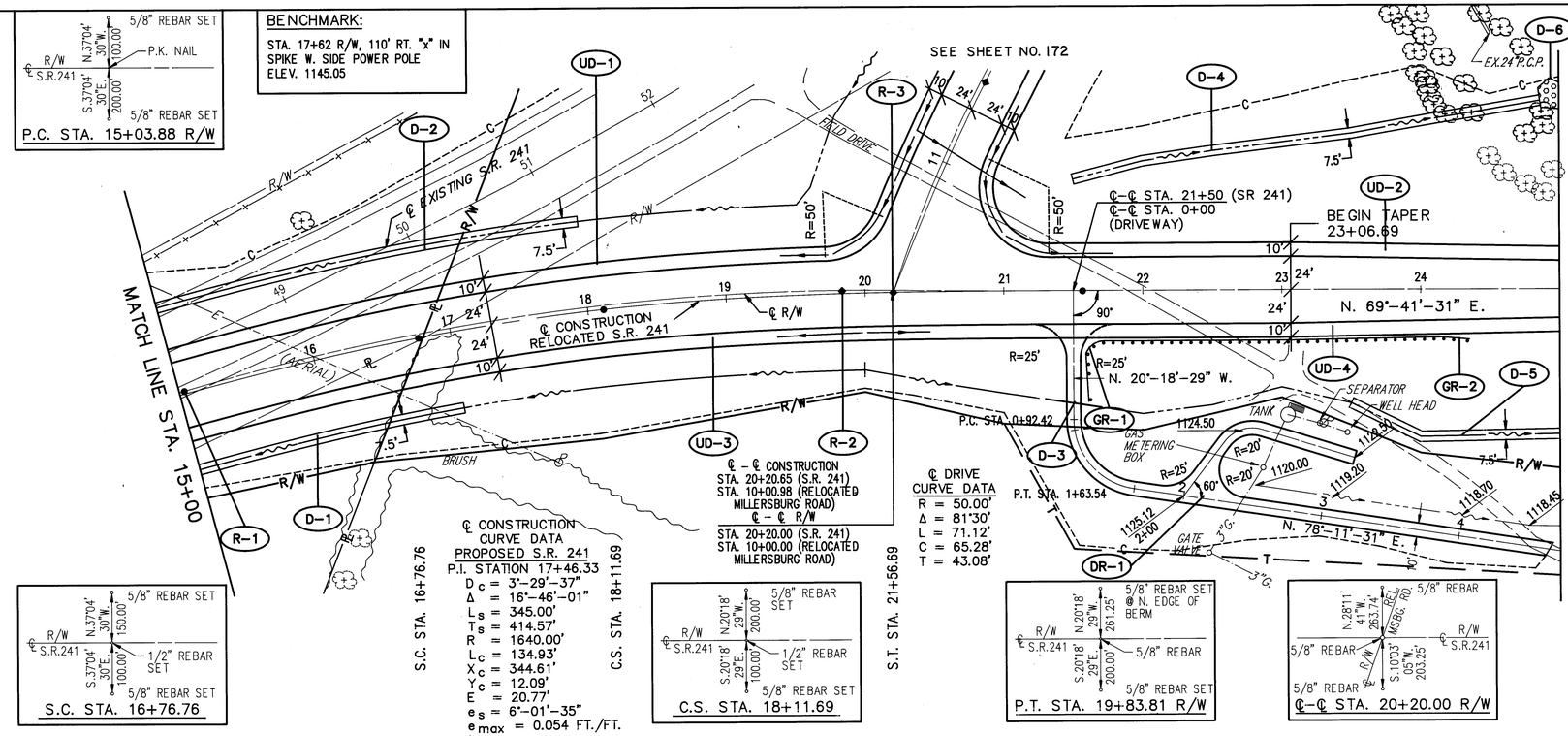
REF.	LOCATION	S.Y.	
D–1	STA. 11+00 TO STA. 15+00, LT.	334	
D–2	STA. 11+00 TO STA. 15+00, RT.	334	
670	DITCH EROSION PROTECTION	S.Y.	668

ROADWAY

REF.	LOCATION	EA.	L.F.	S.Y.	EA.	
R–1	STA. 10+20, 1.5'RT.	1				
R–2	STA. 10+05, ℄ TO STA. 14+95, 30.0'LT.			272		
R–3	STA. 10+01.59, ℄ R/W				1	
R–4	STA. 11+00, 92.0'RT. TO STA. 14+40, 60.0'RT.		340			
604	MONUMENT ASSEMBLY					1
202	FENCE REMOVED					340
202	CONCRETE MEDIAN REMOVED					272
202	CATCH BASIN REMOVED	EA.				
		1				1
	TOTALS					

STATE ROUTE 241

PLAN–PROFILE STA. 5+00 TO STA. 15+00



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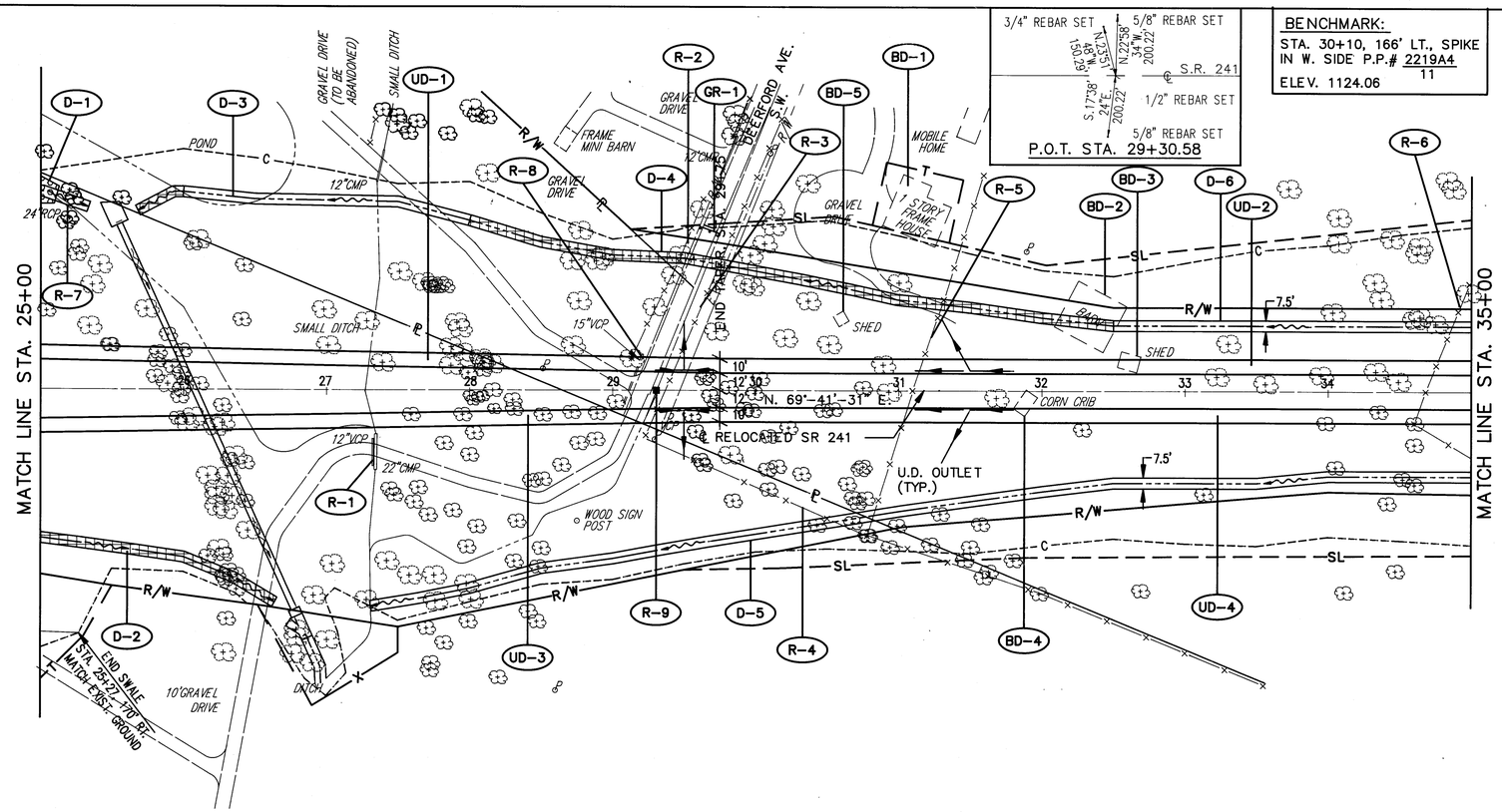
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FOR TYPICAL SECTIONS SEE SHEET 4
FOR CROSS–SECTIONS SEE SHEETS 78–84
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 248
FOR UNDERDRAIN QUANTITIES SEE SHEET 33
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 213
FOR SIDE STREET PLAN & PROFILES SEE SHEET 172
FOR INTERSECTION DETAILS SEE SHEET 218
FOR SUPERELEVATION TABLES, SEE SHEET 11

NOTES: SEE EXISTING MILLERSBURG ROAD CROSS SECTIONS SHTS. 206 THRU 209 FOR EXTRA AREA EXCAVATION AND EMBANKMENT QUANTITIES.

ALL REFERENCE TIES ARE TO ℄ CONSTRUCTION UNLESS OTHERWISE NOTED.

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FOR TYPICAL SECTIONS SEE SHEETS 4 & 5
FOR CROSS-SECTIONS SEE SHEETS 84- 91
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEETS 248, 249
FOR UNDERDRAIN QUANTITIES SEE SHEET 33
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR CULVERT DETAIL SEE SHEET 228

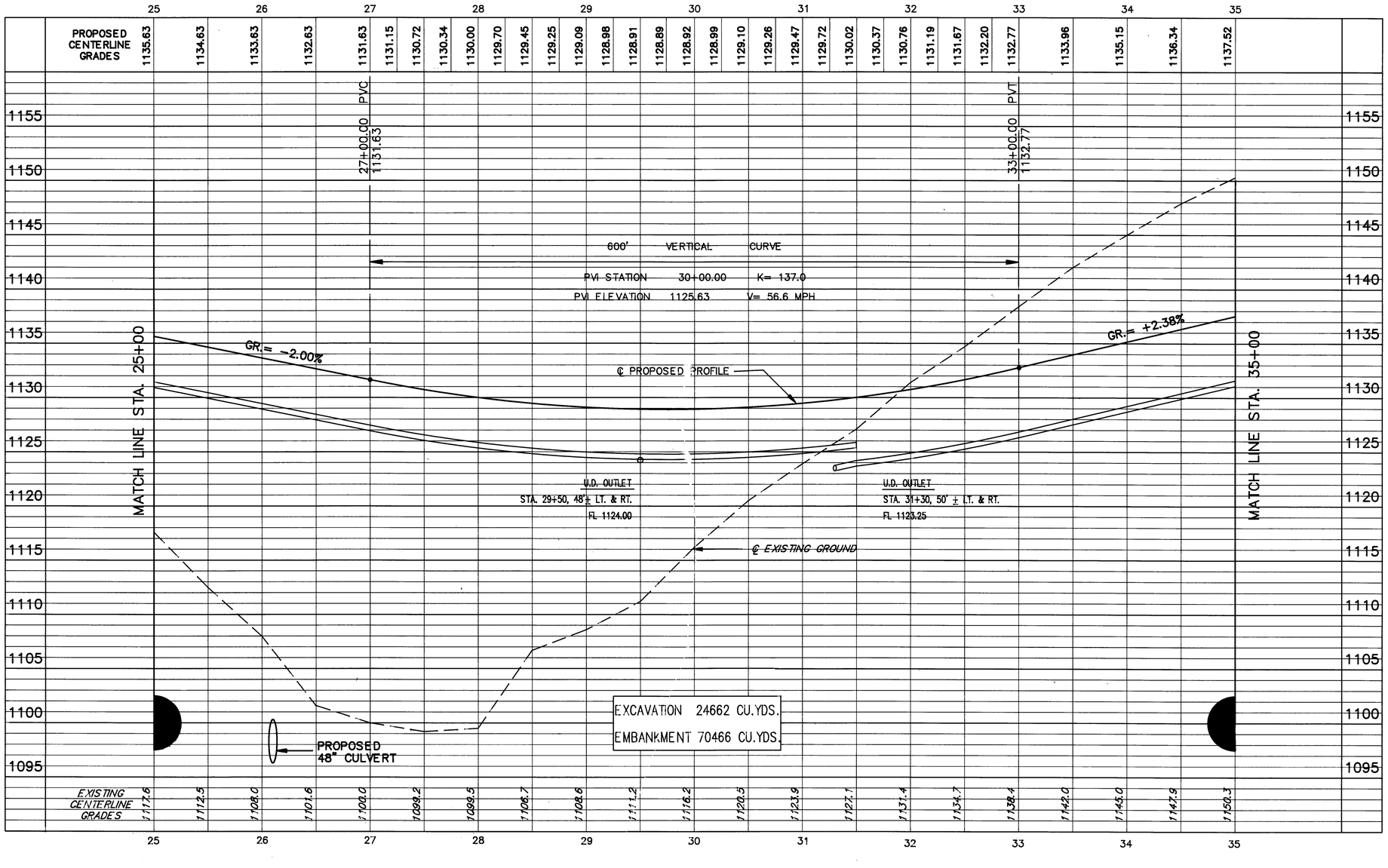
	ROADWAY	202 PIPE REMOVED (24" AND UNDER)	202 FENCE REMOVED	604 MONUMENT ASSEMBLY	606 GUARDRAIL BARRIER DESIGN TYPE 5			
REF.	LOCATION	L.F.	L.F.	EA.	L.F.			
R--1	STA. 27+35, 45.00' RT.	45						
R--2	STA. 29+12, 22.00' LT. TO STA. 29+57, 115.0' LT.		100					
R--3	STA. 29+20, 25.0' RT. TO STA. 29+70, 115.0' LT.		160					
R--4	STA. 29+25, 35.0' RT. TO STA. 31+12, 110.0' RT.		205					
R--5	STA. 30+80, 100.0' RT. TO STA. 31+40, 100.0' LT.		210					
R--6	STA. 35+00, 75.0' LT. TO STA. 35+00, 45.0' RT.		150					
R--7	STA. 25+20, 130' LT.	15						
R--8	STA. 29+12, ℄	35						
R--9	STA. 29+30.58 ℄			1				
GR-1	STA. 29+61, 114' LT. TO STA. 29+74, 109' LT.				12.5			
	TOTALS	95	825	1	12.5			

	DRAINAGE	601 ROCK CHANNEL PROTECTION TYPE D W/ FILTER	670 DITCH EROSION PROTECTION	840 SEEDING AND NYLON FIBER MATTING, AS PER PLAN				
REF.	LOCATION	C.Y.	S.Y.	S.Y.				
D--1	STA. 25+00 TO STA. 25+12, LT.	7.5						
D--2	STA. 25+00 TO STA. 26+50, RT.			146				
D--3	STA. 25+12 TO STA. 28+00, LT.		204	29				
D--4	STA. 28+00 TO STA. 32+50, LT.			388				
D--5	STA. 27+30 TO STA. 35+00, RT.		650					
D--6	STA. 32+50 TO STA. 35+00, LT.		208					
	TOTALS	7.5	1062	563				

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PLAN STA. 25+00 TO STA. 35+00

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CHKD. BY CCH DATE 6/91		FHWA REGION 5	303



STATE ROUTE 241

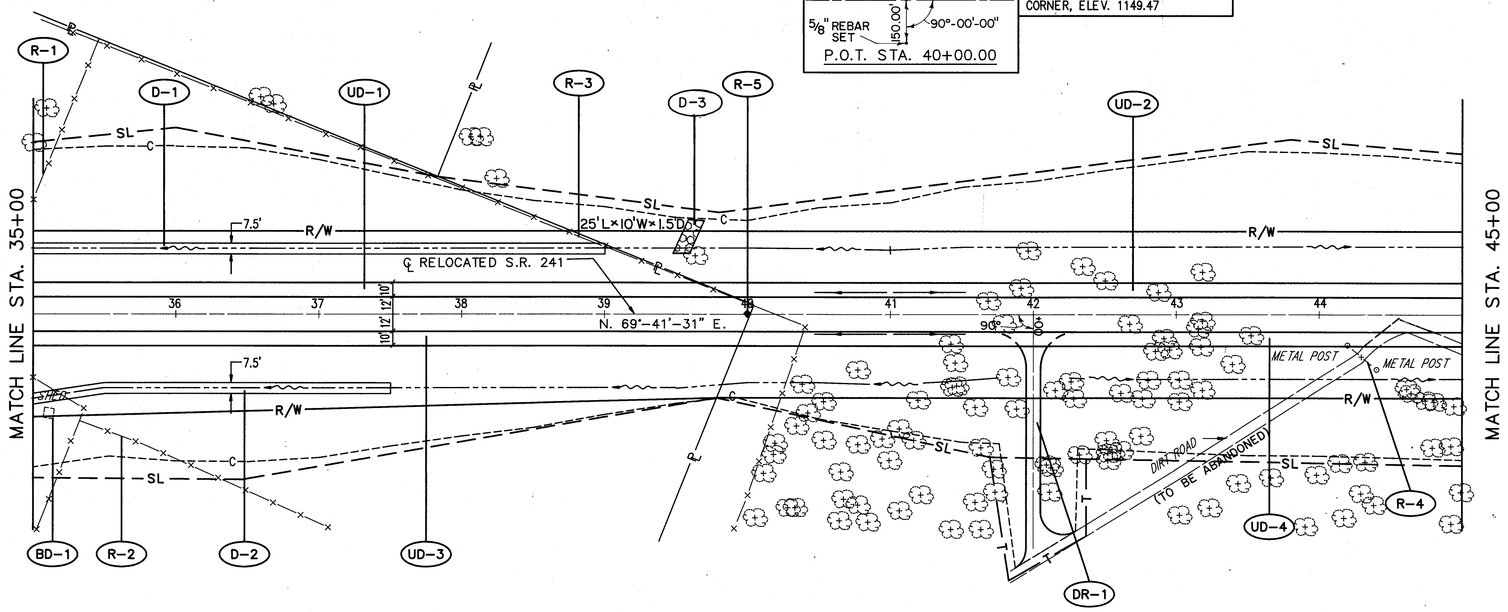
PROFILE STA. 25+00 TO STA. 35+00

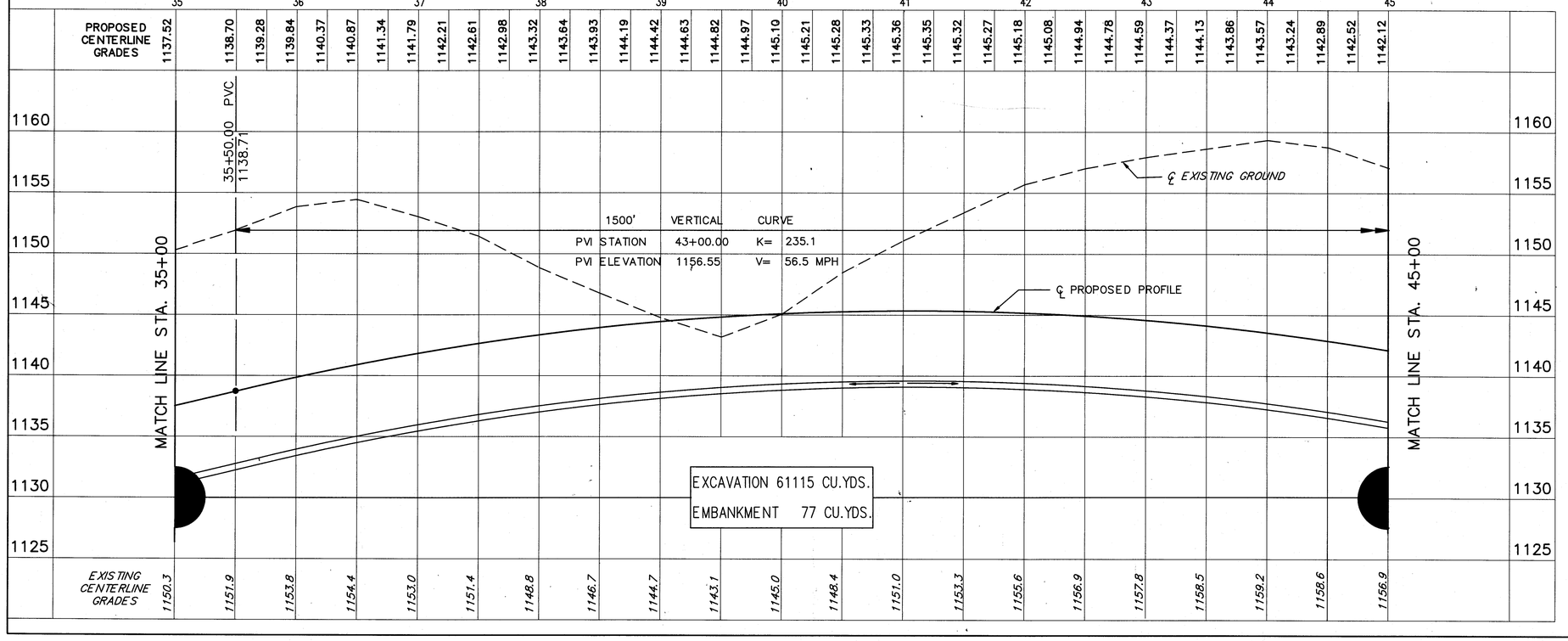
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	55
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS-SECTIONS SEE SHEET 91-97
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 249
FOR UNDERDRAIN QUANTITIES SEE SHEET 33
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 213

5/8" REBAR SET
1/2" REBAR SET
150.00'
90°-00'-00"
℄ S.R.241
150.00'
90°-00'-00"
5/8" REBAR SET
P.O.T. STA. 40+00.00

BENCHMARK:
STA. 50+15, 267' RT., TOP OF SPIKE, 0.5' UP N. SIDE TWIN 18" ASHES, 10' ± E. OF NW PROPERTY CORNER, ELEV. 1149.47





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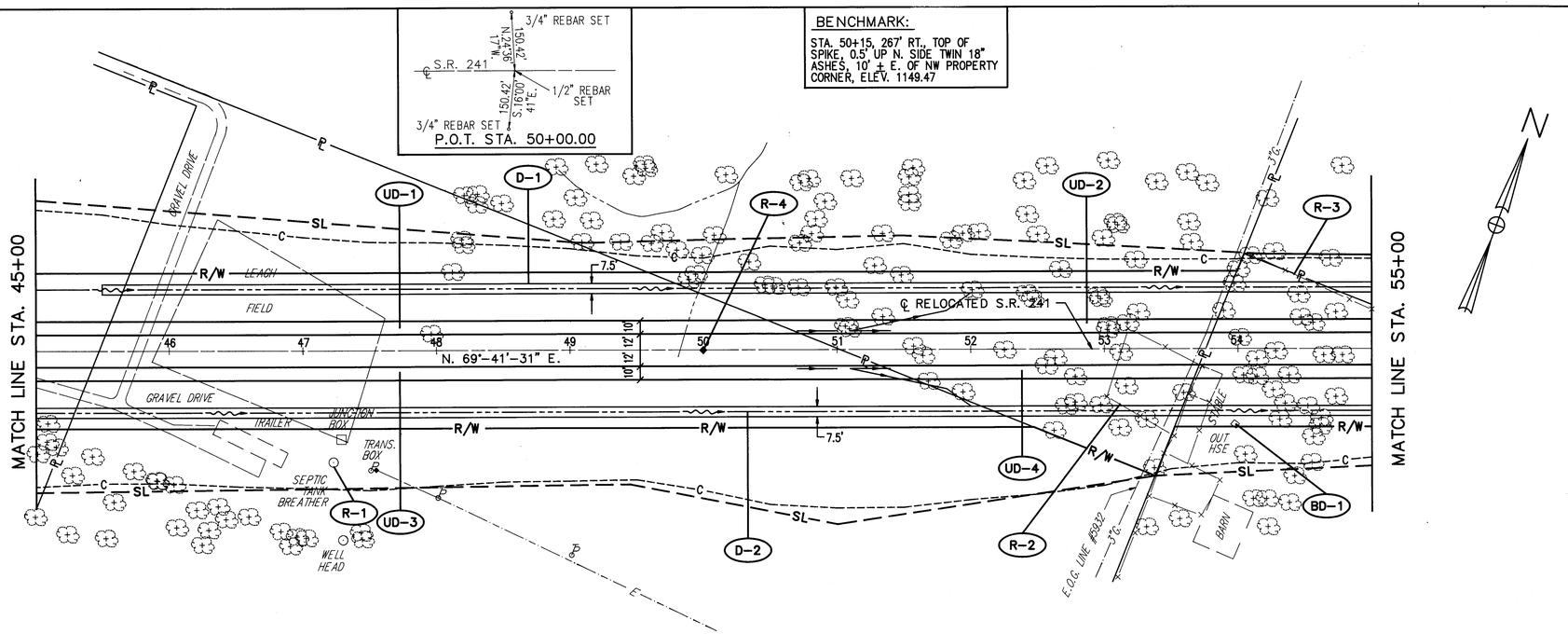
CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA–241–4.22

OHIO
FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS–SECTIONS SEE SHEETS 97–103
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEETS 249, 250
FOR UNDERDRAIN QUANTITIES SEE SHEET 33
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44



DRAINAGE

REF.	LOCATION		
D–1	STA. 45+50 TO STA. 55+00, LT.		
D–2	STA. 45+00 TO STA. 55+00, RT.		
670	DITCH EROSION PROTECTION	S.Y.	1625
		TOTALS	1625

ROADWAY

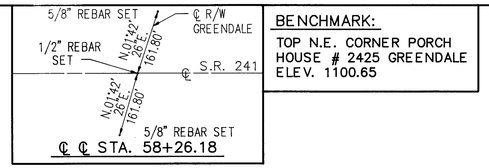
REF.	LOCATION			
R–1	STA. 47+23, 85.0' RT.			
R–2	STA. 53+02, 35.0' RT. TO STA. 53+90		370	
R–3	STA. 54+10, 70.0' LT. TO STA. 55+00, 30.0' LT.		100	
R–4	STA. 50+00.00 ℄			1
604	MONUMENT ASSEMBLY	EA.		1
202	SEPTIC TANK REMOVED	EA.	1	
202	FENCE REMOVED	L.F.		470
		TOTALS		1

STATE ROUTE 241

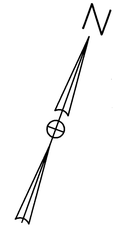
PLAN–PROFILE STA. 45+00 TO STA. 55+00

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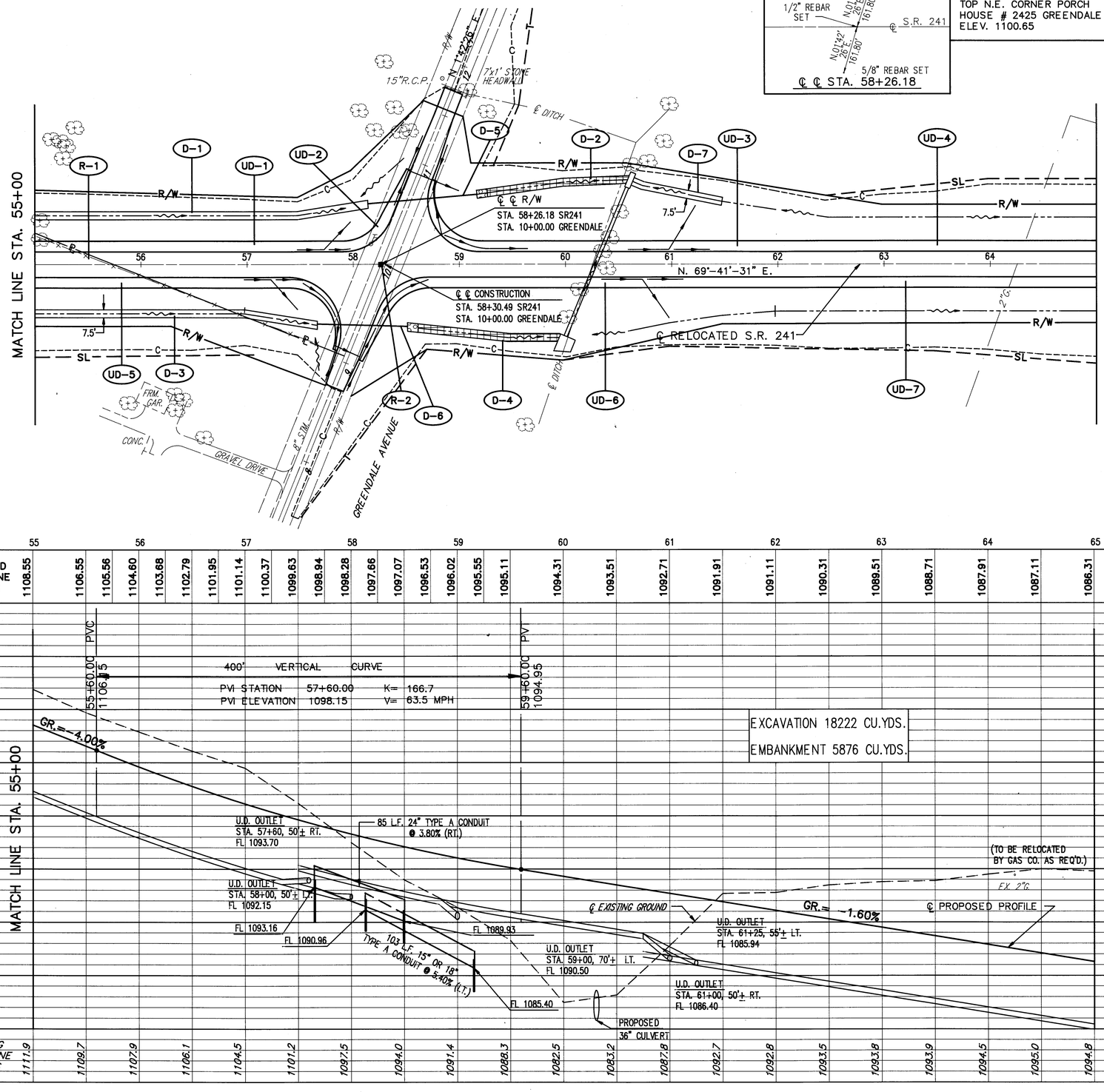
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BENCHMARK:
TOP N.E. CORNER PORCH HOUSE # 2425 GREENDALE
ELEV. 1100.65



FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS–SECTIONS SEE SHEETS 103–108
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 250
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32, 33
FOR SIDE STREET PLAN & PROFILES SEE SHEET 173
FOR INTERSECTION DETAILS SEE SHEET 219
FOR CULVERT DETAILS SEE SHEETS 229, 233



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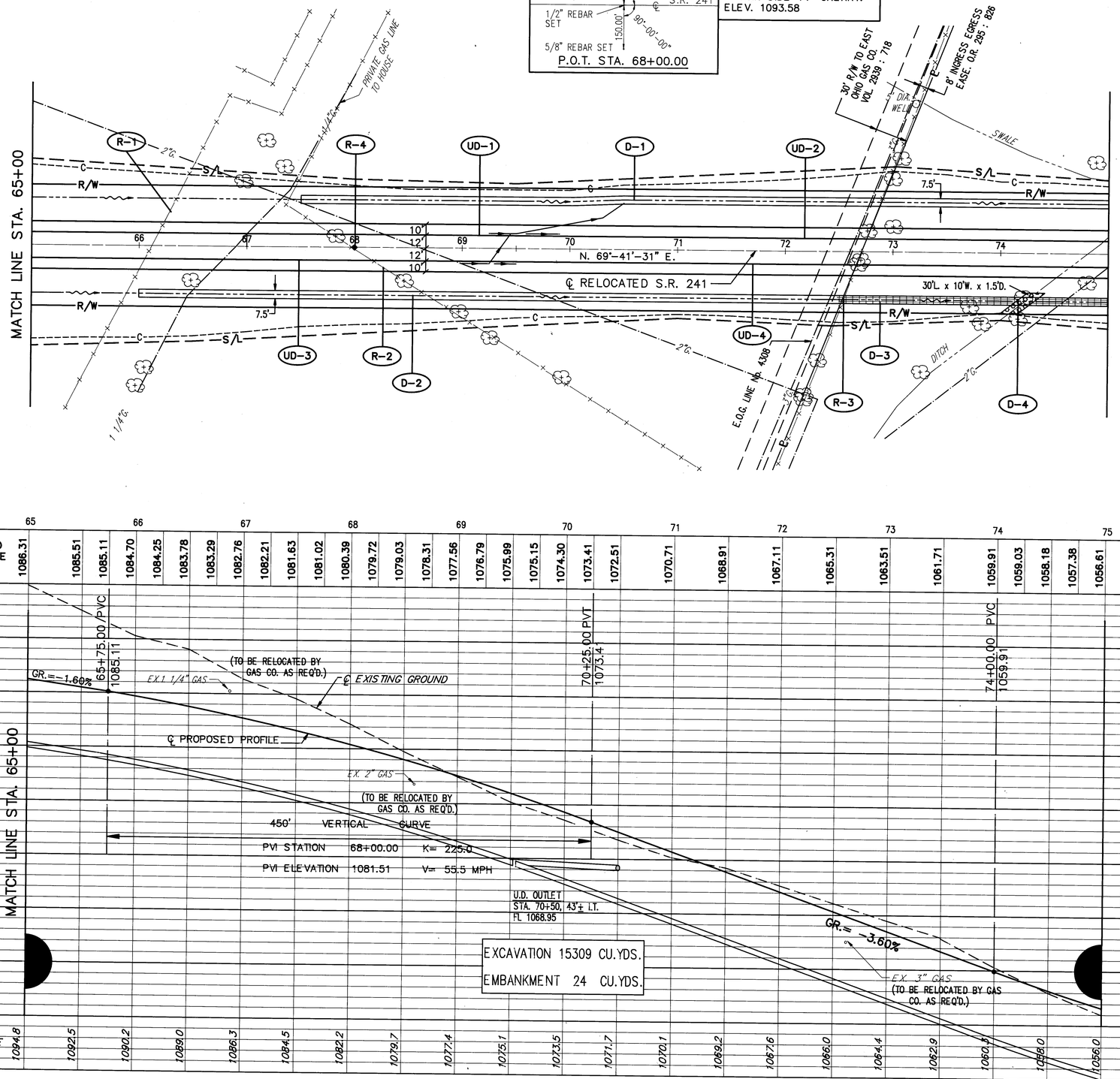
CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS–SECTIONS SEE SHEETS 108–113
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 250
FOR UNDERDRAIN QUANTITIES SEE SHEET 33

5/8" REBAR SET
130.00'
90°-00'-00"
℄ S.R. 241
1/2" REBAR SET
150.00'
90°-00'-00"
5/8" REBAR SET
P.O.T. STA. 68+00.00

BENCHMARK:
STA. 66+06, 113' RT., SPIKE IN N.W. SIDE 14" CHERRY.
ELEV. 1093.58



DRAINAGE			
REF.	LOCATION		
D–1	STA. 67+50 TO STA. 75+00, LT.		
D–2	STA. 66+00 TO STA. 72+50, RT.		
D–3	STA. 72+50 TO STA. 75+00, RT.		
D–4	STA. 74+00, 52' RT. TO STA. 74+25, 35' RT.		17
	TOTALS		17

840	SEEDING AND NYLON FIBER MATTING, AS PER PLAN	S.Y.	S.Y.	196
670	DITCH EROSION PROTECTION	S.Y.	625 542	
601	ROCK CHANNEL PROTECTION, TYPE D W/FILTER	C.Y.		1167
				196

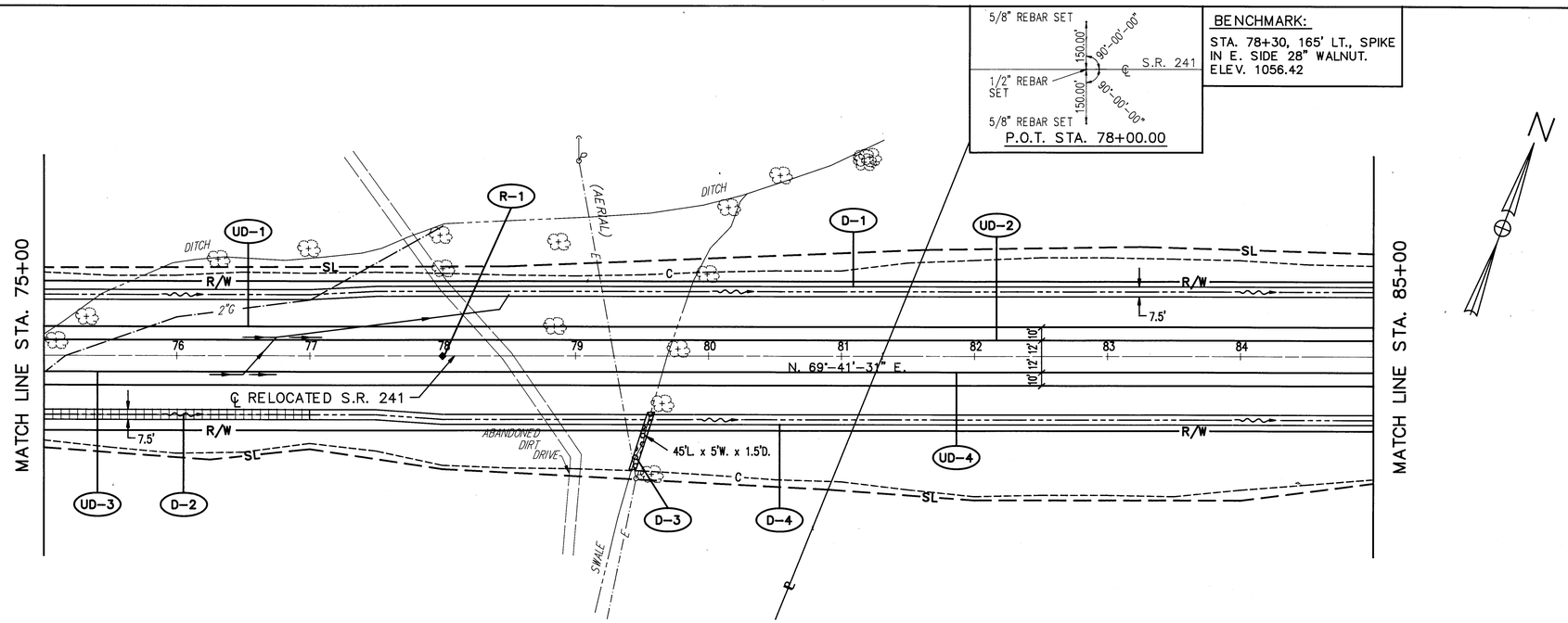
ROADWAY			
REF.	LOCATION		
R–1	STA. 65+65.85.0' RT. TO STA. 66+45.65.0' LT.	LF.	170
R–2	STA. 67+35.40.0' LT. TO STA. 69+05.65.0' RT.		225
R–3	STA. 72+45.65.0' RT. TO STA. 73+60.75.0' LT.		150
R–4	STA. 68+00.00 ℄		1
	TOTALS		545

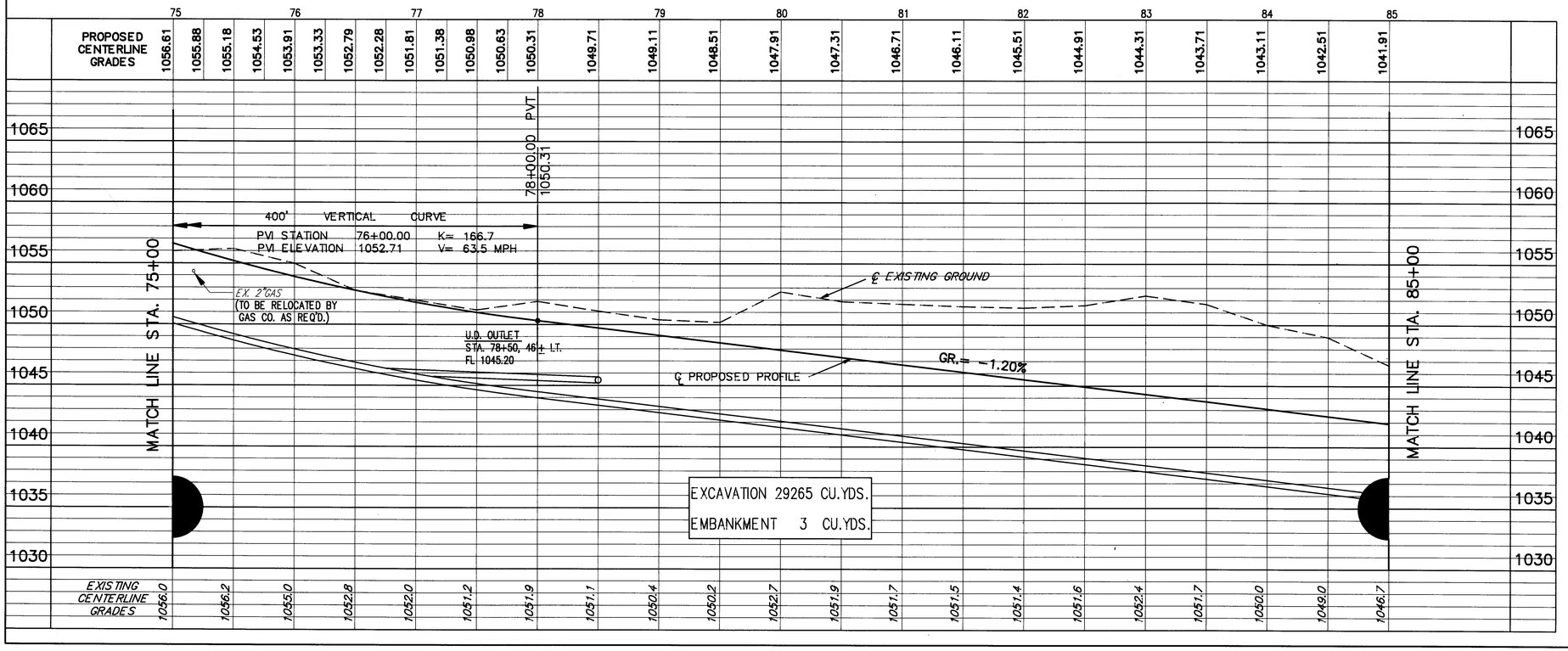
604	MONUMENT ASSEMBLY	EA.	1
202	FENCE REMOVED		

STATE ROUTE 241

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS-SECTIONS SEE SHEETS 113-119
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEETS 250, 251
FOR UNDERDRAIN QUANTITIES SEE SHEET 33





| | | |

CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO	60
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS–SECTIONS SEE SHEETS 119–124
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 251
FOR UNDERDRAIN QUANTITIES SEE SHEET 33

5/8" REBAR SET
N.20°18' 29"W. 150.00'
℄ S.R. 241
S.20°18' 29"E. 150.00'
1/2" REBAR SET
5/8" REBAR SET
P.O.T. STA. 87+14.45

BENCHMARK:
STA. 87+67, 124' LT., SPIKE IN S. SIDE 15" ELM, ELEV. 1033.26
STA. 93+48, 139' RT., RAILROAD SPIKE 1.0' UP NW SIDE 22" MAPLE, ELEV. 1037.86

5/8" REBAR SET
N.20°18' 29"W. 150.00'
℄ S.R. 241
S.20°18' 29"E. 150.00'
1/2" REBAR SET
5/8" REBAR SET
P.O.T. STA. 95+00.00

N

MATCH LINE STA. 85+00

UD–1 R–1 UD–2 D–1 UD–3
SL C R/W
7.6'
86 87 88 89 90 91 92 93 94
N. 69°–41'–31" E.
℄ RELOCATED S.R. 241
20'L. x 10'W. x 1.5'D.
7.5'
UD–4 D–2 UD–5 D–3 UD–6 D–4 R–2
4'G.
GAS LINE MARKER
E.O.G. LINE #2382

MATCH LINE STA. 95+00

	85	86	87	88	89	90	91	92	93	94	95
PROPOSED CENTERLINE GRADES	1041.91	1041.31	1040.71	1040.11	1039.51	1038.91	1038.31	1037.71	1037.11	1036.51	1035.91	1035.31	1034.71	1034.40	1034.07	1033.73	1033.36	1032.98	1032.57	1032.15	1031.71	1031.25	1030.77	1030.28	1029.76	1029.23	1028.67	1028.10	1027.51
EXISTING CENTERLINE GRADES	1046.7	1044.4	1042.0	1039.5	1037.5	1035.8	1033.9	1032.9	1032.0	1030.3	1028.5	1029.0	1031.4	1034.2	1035.0	1035.9	1035.9	1035.1	1034.1	1032.7	1030.3								

1050 1045 1040 1035 1030 1025 1020 1015

91+00.00 PVC
1034.7

95+00.00 PVT
1027.5

℄ EXISTING GROUND
GR.= –1.20%
400' VERTICAL CURVE
PVI STATION 93+00.00 K= 333.3
PVI ELEVATION 1032.31 V= 66.3 MPH
(TO BE RELOCATED BY GAS CO. AS REQ'D.)
EXIST. 4"GAS
EXIST. GAS
GR.= –2.4%
℄ PROPOSED PROFILE
U.D. OUTLET
STA. 88+00, 50'+ LT.
FL 1032.00
U.D. OUTLET
STA. 91+25. 53'+ LT. & RT.
FL 1028.00

EXCAVATION 18562 CU.YDS.
EMBANKMENT 4532 CU.YDS.

MATCH LINE STA. 85+00

MATCH LINE STA. 95+00

840	SEEDING AND NYLON FIBER MATTING, AS PER PLAN	S.Y.		167
670	DITCH EROSION PROTECTION	S.Y.	833 667	
601	ROCK CHANNEL PROTECTION, TYPE D W/FILTER	C.Y.	11	1500 167

DRAINAGE

REF.	LOCATION	TOTALS
D–1	STA. 85+00 TO STA. 95+00, LT.	11
D–2	STA. 85+00 TO STA. 93+00, RT.	
D–3	STA. 90+25, 68' RT. TO STA. 90+25, 50' RT.	
D–4	STA. 95+00, RT. TO STA. 93+00 TO STA. 95+00, RT.	

604	MONUMENT ASSEMBLY	E.A.	2

ROADWAY

REF.	LOCATION	TOTALS
R–1	STA. 87+14.45 ℄	1
R–2	STA. 95+00.00 ℄	1

STATE ROUTE 241

PLAN–PROFILE STA. 85+00 TO STA. 95+00

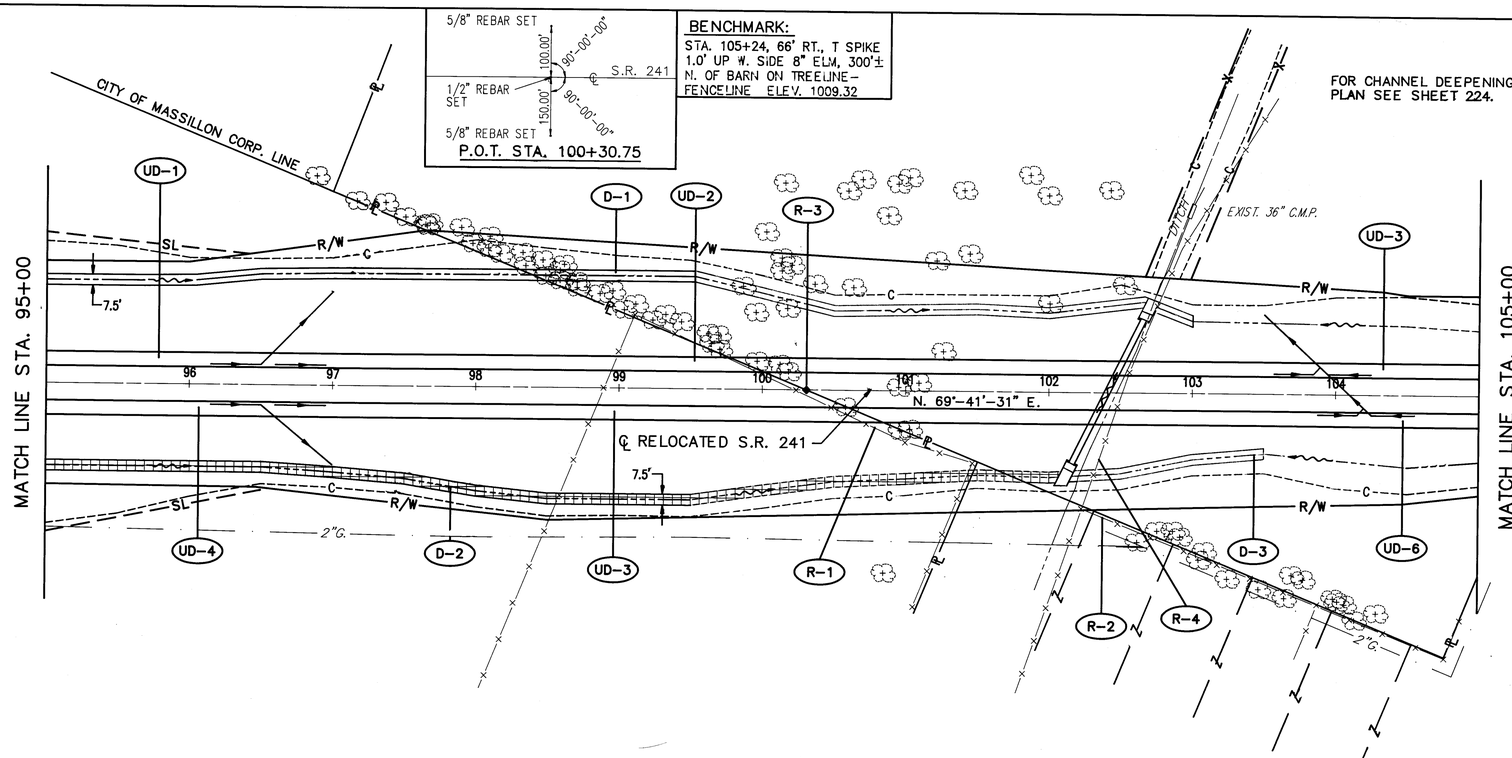
CALC. BY KJS DATE 6/91
CHKD. BY CDH DATE 6/91

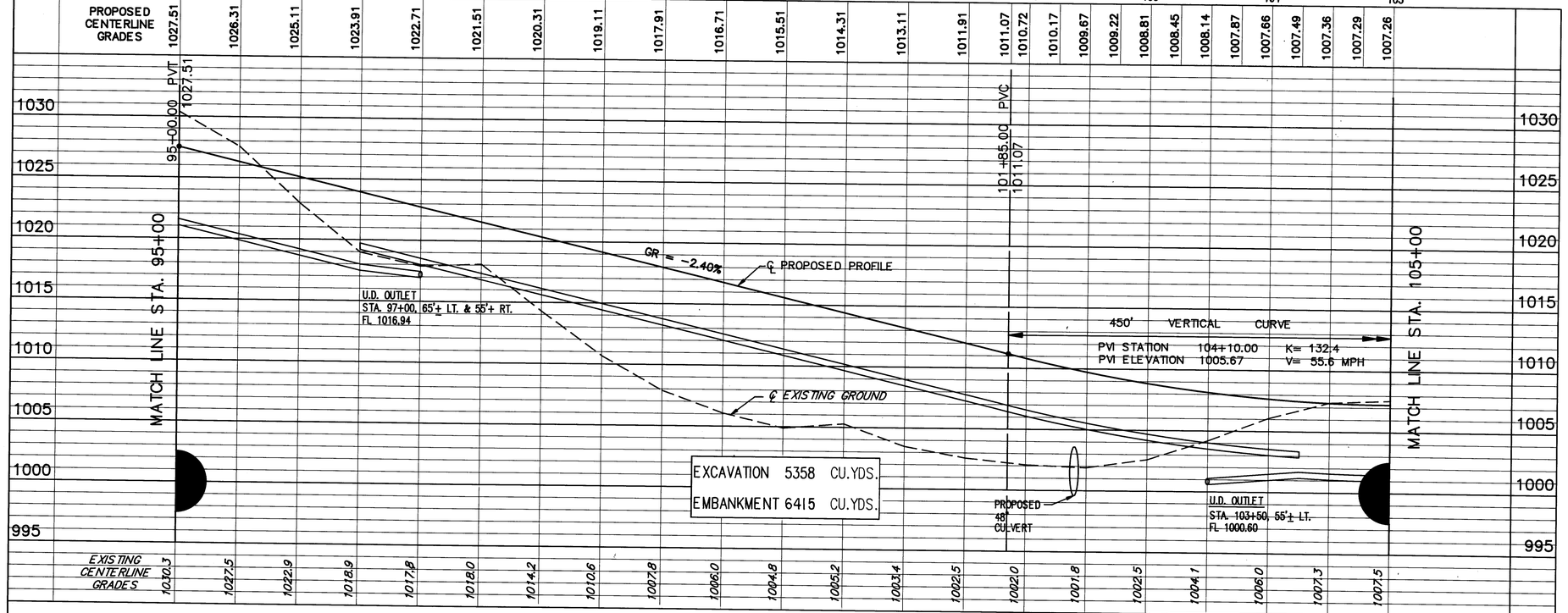
STA-241-4.22

OHIO
FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 5.
FOR CROSS-SECTIONS SEE SHEET 124-130.
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 251, 252.
FOR UNDERDRAIN QUANTITIES SEE SHEET 33.
FOR CULVERT DETAIL SEE SHEET 230.
FOR SWAMP TREATMENT DETAIL SEE SHEET 238.
FOR SWAMP TREATMENT QUANTITIES SEE SHEET 40.





DRAINAGE

REF.	LOCATION			
D-1	STA. 95+00 TO STA. 103+00, LT.			
D-2	STA. 95+00 TO STA. 102+00, RT.			
D-3	STA. 102+00 TO STA. 103+50, RT.			
670	DITCH EROSION PROTECTION	S.Y.	667	117
840	SEEDING AND NYLON FIBER MATTING, AS PER PLAN	S.Y.	583	
				TOTALS 784 583

ROADWAY

REF.	LOCATION			
R-1	STA. 98+52, 90.0' RT. TO STA. 101+45, 50.0' RT.			
R-2	STA. 102+20, 90.0' RT. TO STA. 102+50, 90.0' RT.			
R-3	STA. 100+30.75 ℄			
R-4	STA. 102+22, 80' RT. TO STA. 102+52, ℄			
202	604 MONUMENT ASSEMBLY	L.F.	455	
	FENCE REMOVED	EA.	30	1
		L.F.		95
				TOTALS 580 1

STATE ROUTE 241

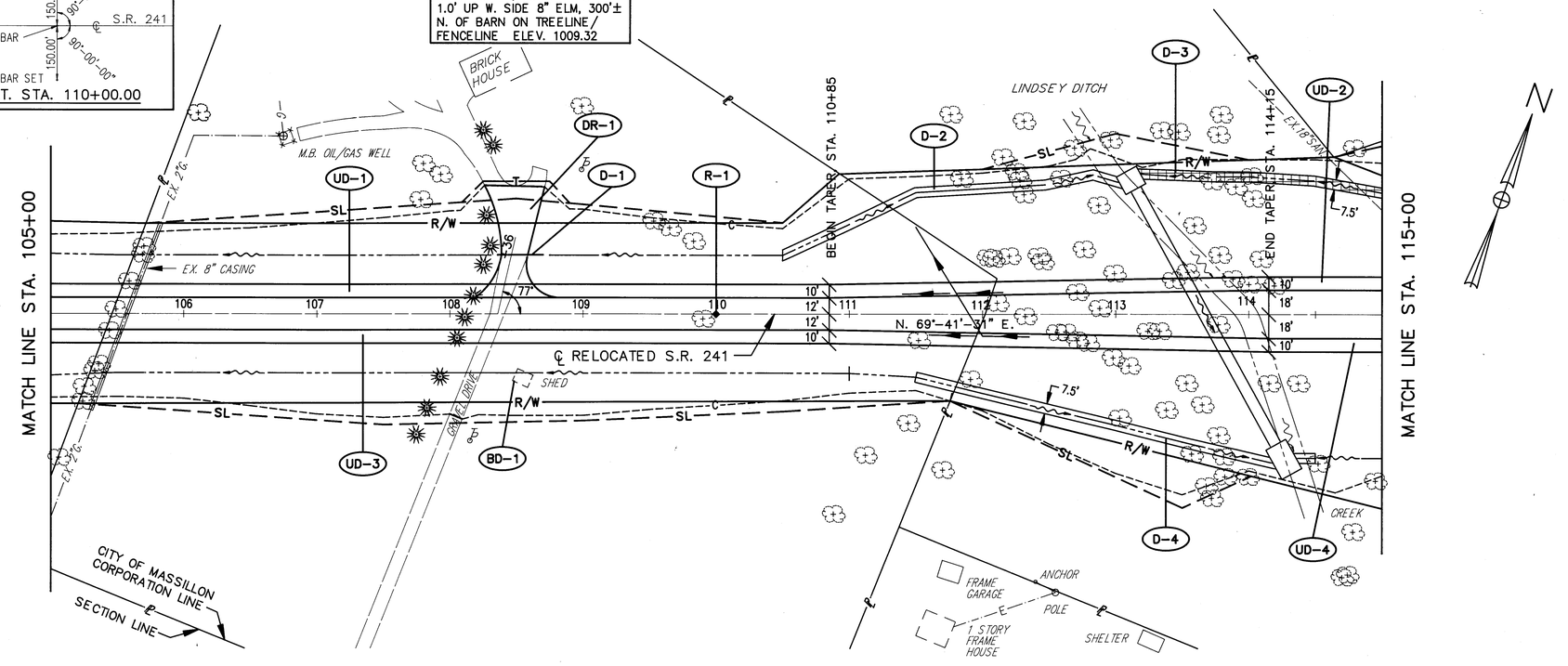
CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

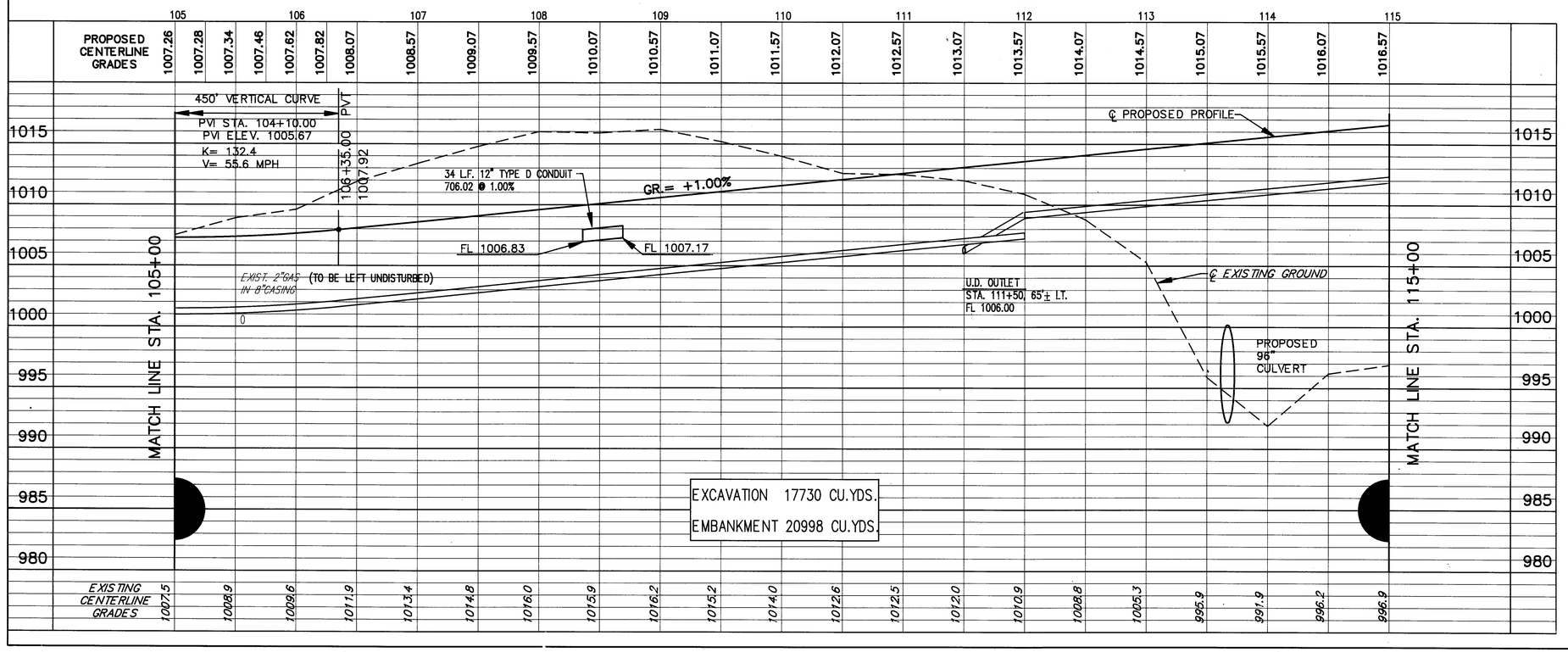
62
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5/8" REBAR SET
150.00' 90°-00'-00"
℄ S.R. 241
1/2" REBAR SET
150.00' 90°-00'-00"
5/8" REBAR SET
P.O.T. STA. 110+00.00

BENCHMARK:
STA. 105+24, 66' RT. T SPIKE
1.0' UP W. SIDE 8" ELM, 300'± N. OF BARN ON TREELINE / FENCELINE ELEV. 1009.32

FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS-SECTIONS SEE SHEETS 130-135
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 252
FOR UNDERDRAIN QUANTITIES SEE SHEET 33
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 214
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR CULVERT DETAIL SEE SHEET 231





840	SEEDING AND NYLON FIBER MATTING, AS PER PLAN	S.Y.			150	150
670	DITCH EROSION PROTECTION	S.Y.		233	250	483
603	12" CONDUIT TYPE D 706.02	L.F.	34			34

DRAINAGE

REF.	LOCATION	TOTALS
D-1	STA. 108+35 TO STA. 108+69, LT.	
D-2	STA. 110+50 TO STA. 113+20, LT.	
D-3	STA. 113+20 TO STA. 115+00, LT.	
D-4	STA. 111+50 TO STA. 114+50, RT.	

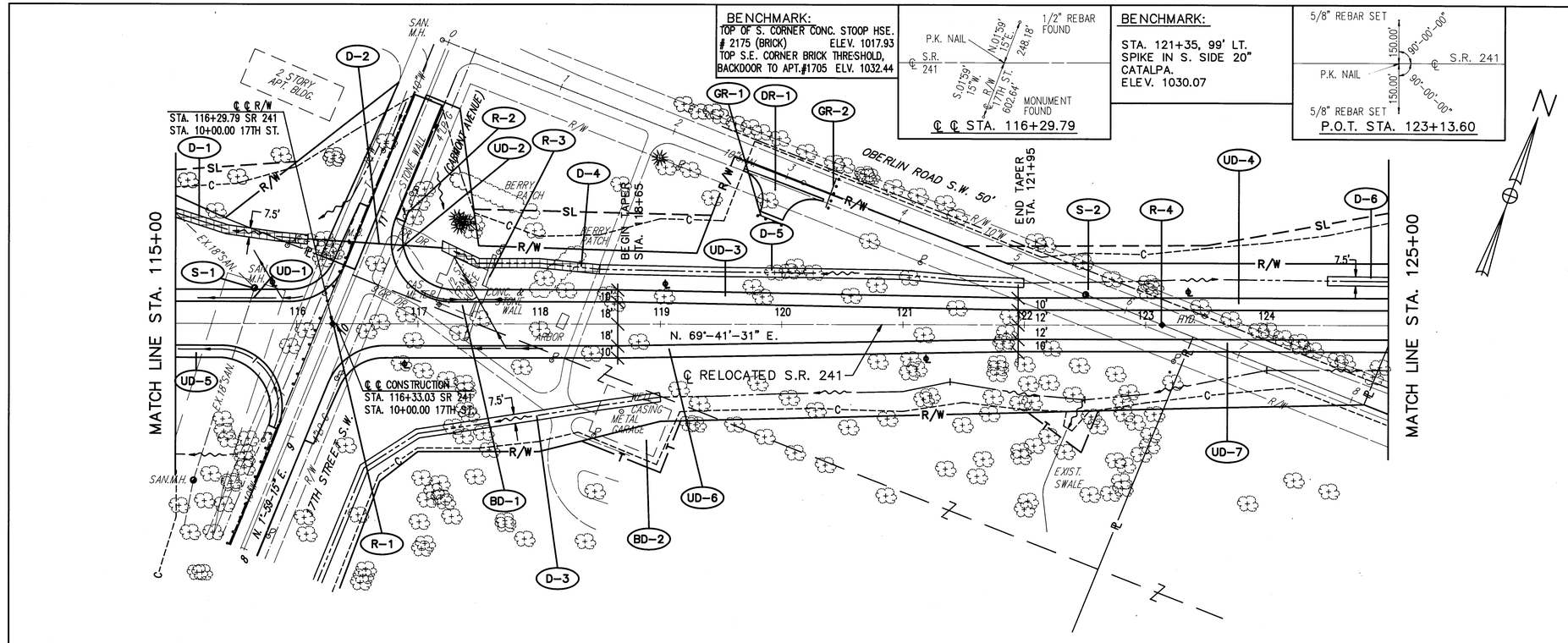
604	MONUMENT ASSEMBLY	EA.	1

ROADWAY

REF.	LOCATION	TOTALS
R-1	STA. 110+00 ℄	

STATE ROUTE 241

PLAN-PROFILE STA. 105+00 TO STA. 115+00



CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA-241-4.22

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FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 5
FOR CROSS-SECTIONS SEE SHEETS 135-141
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 252-253
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32-33
FOR SIDE STREET PLAN & PROFILES SEE SHEET 174
FOR INTERSECTION DETAILS SEE SHEET 219
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEETS 43-44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 261
FOR CULVERT DETAIL SEE SHEET 232

| | | |

CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEETS 5 & 6
FOR CROSS–SECTIONS SEE SHEETS 141–146
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEETS 253, 254
FOR UNDERDRAIN QUANTITIES SEE SHEET 32
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 214
FOR SIDE STREET PLAN & PROFILES SEE SHEET 175
FOR INTERSECTION DETAILS SEE SHEET 220
FOR HIGHWAY LIGHTING PLAN SEE SHEET 262
FOR CULVERT DETAIL SEE SHEET 234

BENCHMARK:
STA. 14+05, 17.05' RT.
(EXISTING OBERLIN RD.) R.R.
SPIKE N.W. SIDE P.P. #2420–D3
ELEV. 1009.51

℄ CURVE DATA
R = 7640.00
Δ = 20°37'20"
L = 2749.84'
T = 1389.95'
C = 2735.01'
N. 80°00'11" E.

5/8" REBAR SET — 5/8" REBAR SET — N.19°01'16"W. 100.00' — N.25°39'44"E. 100.00' — S.R. 241 — ℄ REL. OBERLIN RD.
℄–℄ STA. 132+50.00

3/4" REBAR SET — N.20°18'29"W. 150.00' — S.R. 241
3/4" REBAR SET — S.20°18'29"E. 150.00' — 222.54' — P.K. NAIL SET ON ℄ OBERLIN RD.
P.C. STA. 128+85.06

MATCH LINE STA. 125+00

MATCH LINE STA. 135+00

℄ RELOCATED OBERLIN ROAD

℄ RELOCATED S.R. 241

PC. STA. 128+85.06

OBERLIN ROAD S.W. 50'

N. 69°-41'-31" E.

S.19°-00'-16"E. 2.3

C–℄ OBERLIN ROAD STA. 132+50.00

℄–℄ STA. 132+50 S.R.241 OBERLIN ROAD

℄–℄ STA. 3+52.86

REGRADE EX. SWALE TO CULVERT

EX. DITCH

TO BE ABANDONED 9" GRAVEL DRIVE

TO BE ABANDONED UNDERGROUND ELECTRIC

WELL LINE

GAS WELL–HEAD

SEPARATOR TANK
PRESSURE TANK
2 OIL STORAGE TANKS
CENTRAL SLUDGE TANK
35'L. x 8'W. x 1.5'D.
12' GRAVEL DRIVE

D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8 D-9
R-1 R-2
UD-1 UD-2 UD-3 UD-4
DR-1
GR-1 GR-2

R/W 66' 77' 7.5' 10' 12' 12' 10' SL C ℄ 12" HYD. 10" W.M. 11 13

125 126 127 128 129 130 131 132 133 134 135

PROPOSED CENTERLINE GRADES: 1020.21 1019.65 1019.09 1018.53 1017.97 1017.41 1016.85 1016.29 1015.73 1015.17 1014.61 1014.05 1013.49 1012.93 1012.37 1011.81 1011.25 1010.69 1010.13 1009.57 1009.01

1025 1020 1015 1010 1005 1000 950 900

125+00.00 PVT 1020.21

EXIST. (TO BE RELOCATED ELEC. BY POWER CO. AS REQ'D.)
EXIST. GAS
℄ EXISTING GROUND
(TO BE RELOCATED BY GAS CO. AS REQ'D.)
GR.= –1.12%
℄ PROPOSED PROFILE
FL 1010.11
FL 1009.70
HW–48 HEADWALLS
L.F.–27' TYPE D CONDUIT 706.02 @ 1.12%
U.D. OUTLET STA. 132+05, 45'+ RT. FL 1006.20
85 L.F. – 15" TYPE A CONDUIT 706.02 @ 1.04%
FL 1006.14
FL 1005.25

1024.7 1024.2 1021.9 1019.9 1018.0 1023.1 1027.6 1029.6 1027.4 1021.5 1017.9 1015.2 1013.2 1013.0 1011.9 1011.0 1010.1 1010.4 1009.0 1009.0

EXCAVATION 20863 CU.YDS.
EMBANKMENT 213 CU.YDS.

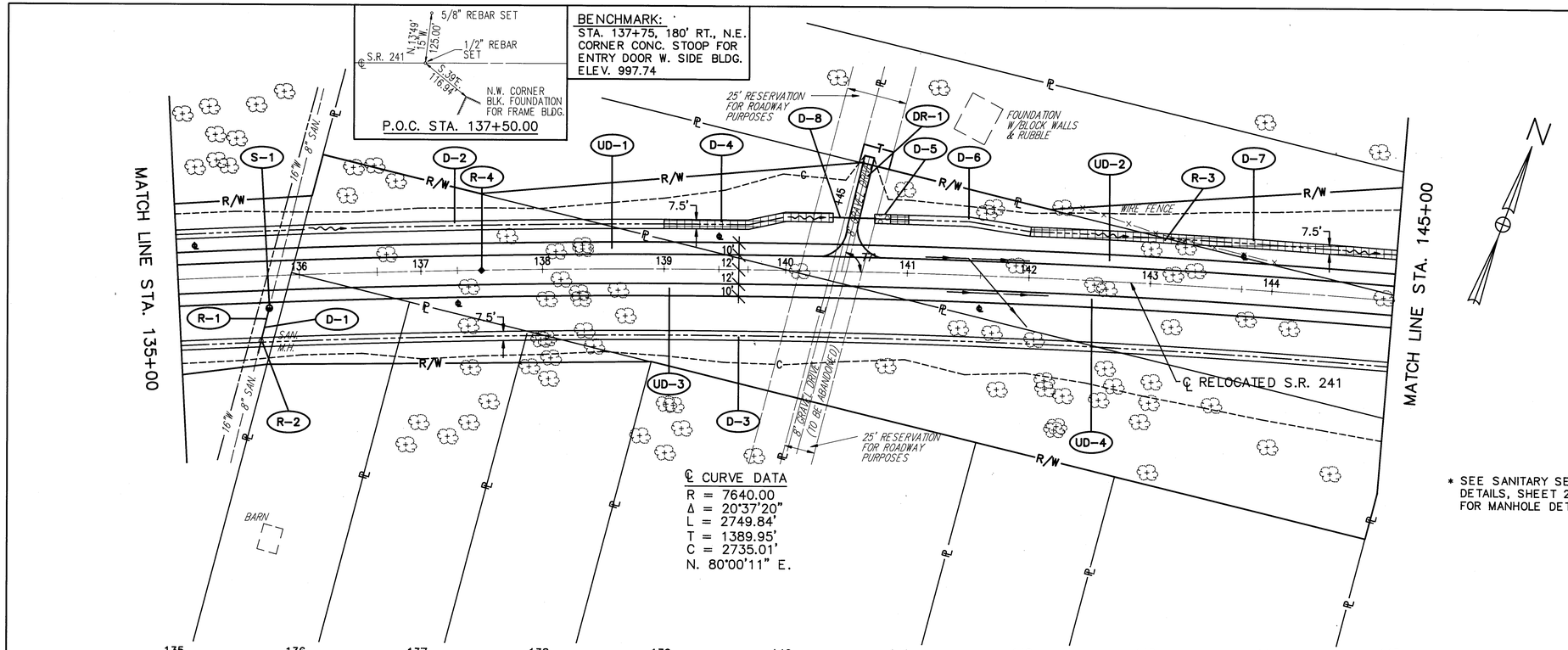
DRAINAGE

| REF. | LOCATION | | |

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 6
FOR CROSS-SECTIONS SEE SHEETS 146-151
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEETS 254, 255
FOR UNDERDRAIN QUANTITIES SEE SHEET 32
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 214
FOR HIGHWAY LIGHTING PLAN SEE SHEET 263

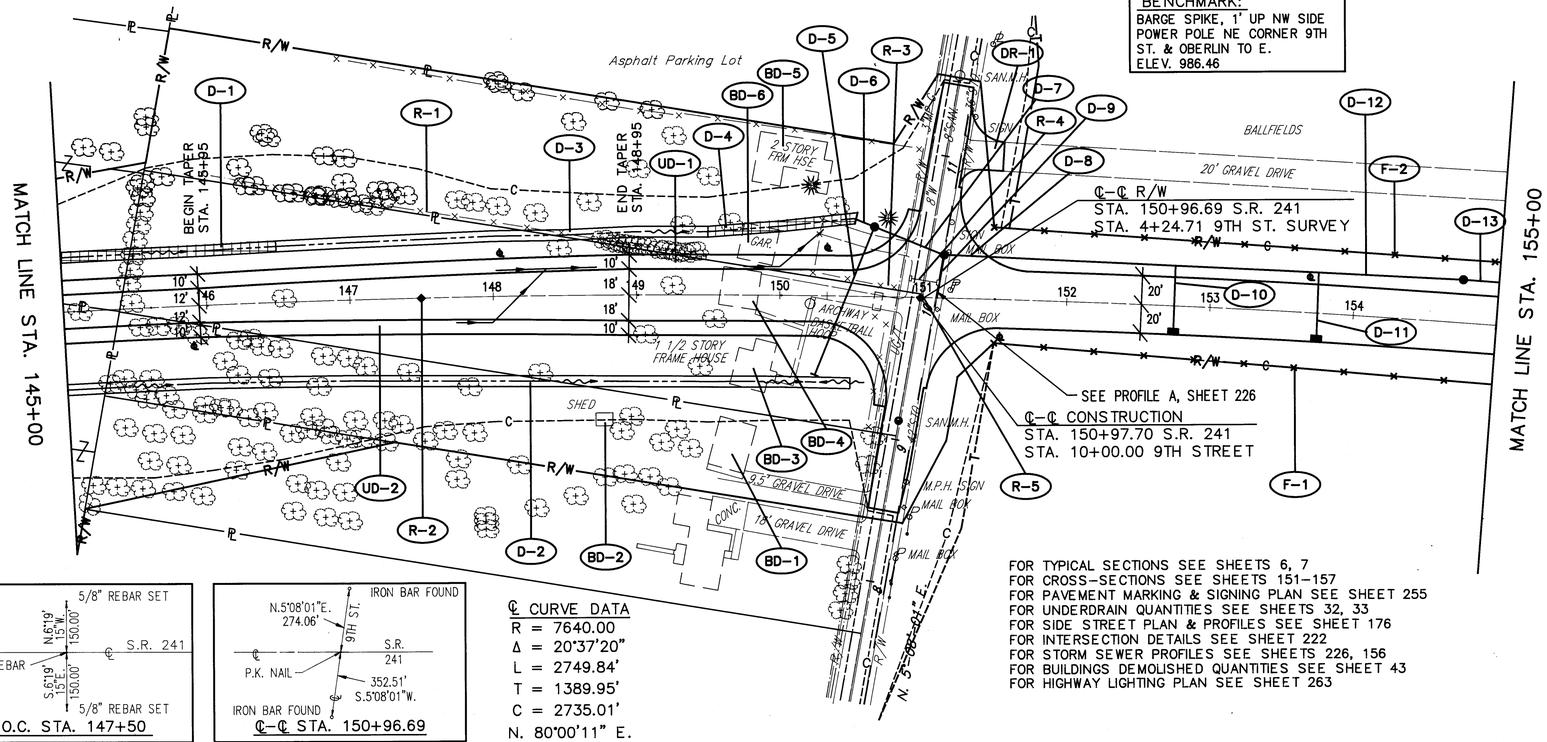


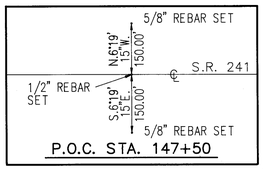
* SEE SANITARY SEWER DETAILS, SHEET 240 FOR MANHOLE DETAIL.

| | | |

CALC. BY RGV DATE 6/91	STA–241–4.22	OHIO	66
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

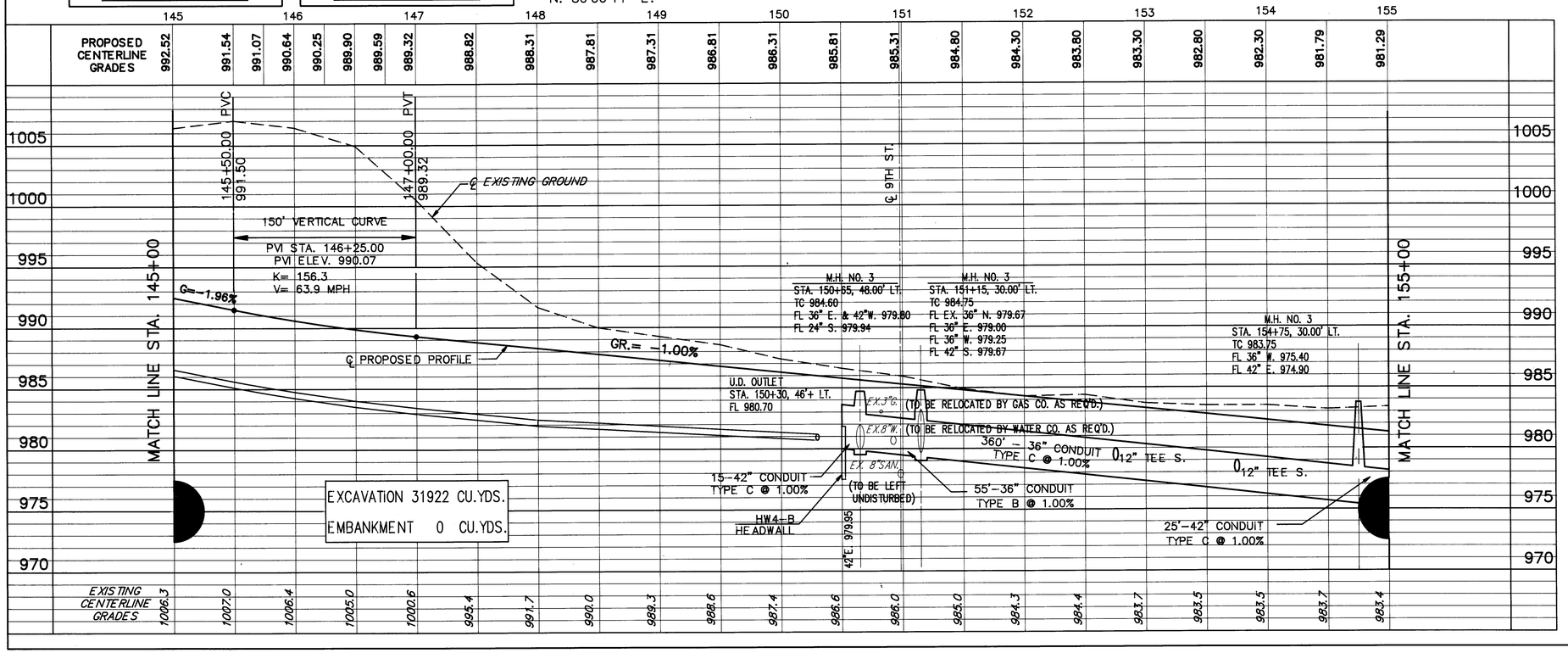
BENCHMARK:
BARGE SPIKE, 1' UP NW SIDE POWER POLE NE CORNER 9TH ST. & OBERLIN TO E.
ELEV. 986.46





℄ CURVE DATA
R = 7640.00
Δ = 20°37'20"
L = 2749.84'
T = 1389.95'
C = 2735.01'
N. 80°00'11" E.

FOR TYPICAL SECTIONS SEE SHEETS 6, 7
FOR CROSS–SECTIONS SEE SHEETS 151–157
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 255
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32, 33
FOR SIDE STREET PLAN & PROFILES SEE SHEET 176
FOR INTERSECTION DETAILS SEE SHEET 222
FOR STORM SEWER PROFILES SEE SHEETS 226, 156
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 43
FOR HIGHWAY LIGHTING PLAN SEE SHEET 263



DRAINAGE

REF.	LOCATION	36" X 12" X 36" TEE EA.	SEEDING AND NYLON FIBER MATTING, AS PER PLAN S.Y. 840	DITCH EROSION PROTECTION S.Y. 670	CATCH BASIN NO. 3A W/ V GRATE EA. 604	MANHOLE NO. 3 EA. 604	42" CONDUIT, TYPE C 706.02 L.F. 603	42" CONDUIT, TYPE B 706.02 L.F. 603	36" CONDUIT, TYPE C 706.02 L.F. 603	36" CONDUIT, TYPE B 706.02 L.F. 603	24" CONDUIT, TYPE B 706.02 L.F. 603	12" CONDUIT, TYPE B 706.02 L.F. 603	CONCRETE MASONRY C.Y. 602
D–1	STA. 146+50, LT. TO STA. 150+50, RT.		125	459									
D–2	STA. 145+00 TO STA. 149+50, LT.			250									
D–3	STA. 146+50 TO STA. 150+59, LT.				86								
D–4	STA. 149+50 TO STA. 150+65, 50.0' RT.					1	15						0.43
D–5	STA. 150+25, 55.0' RT. TO STA. 150+65, 47' LT.					1							0.84
D–6	STA. 150+50, 53.0' LT. TO STA. 151+45, 30.0' LT.							25					
D–7	STA. 150+65, 47' LT. TO STA. 151+15, 50' LT.				1				330				
D–8	STA. 151+15, 30.0' LT. TO STA. 151+10, 26.0' RT.				1					55			
D–9	STA. 151+10, 26.0' RT. TO STA. 152+75, 30.0' LT.	1			1					30			
D–10	STA. 153+75, 26.0' LT. TO STA. 154+75, 30.0' LT.	1				1		25					
D–11	STA. 154+75, 30.0' LT. TO STA. 155+00, 30.0' LT.								330				
D–12	STA. 151+45, 30.0' LT. TO STA. 154+75, 30.0' LT.										50	50	
D–13	STA. 154+75, 30.0' LT. TO STA. 155+00, 30.0' LT.										50	50	
	TOTALS	2	211	709	2	3	40	25	330	85	110	100	1.27

ROADWAY

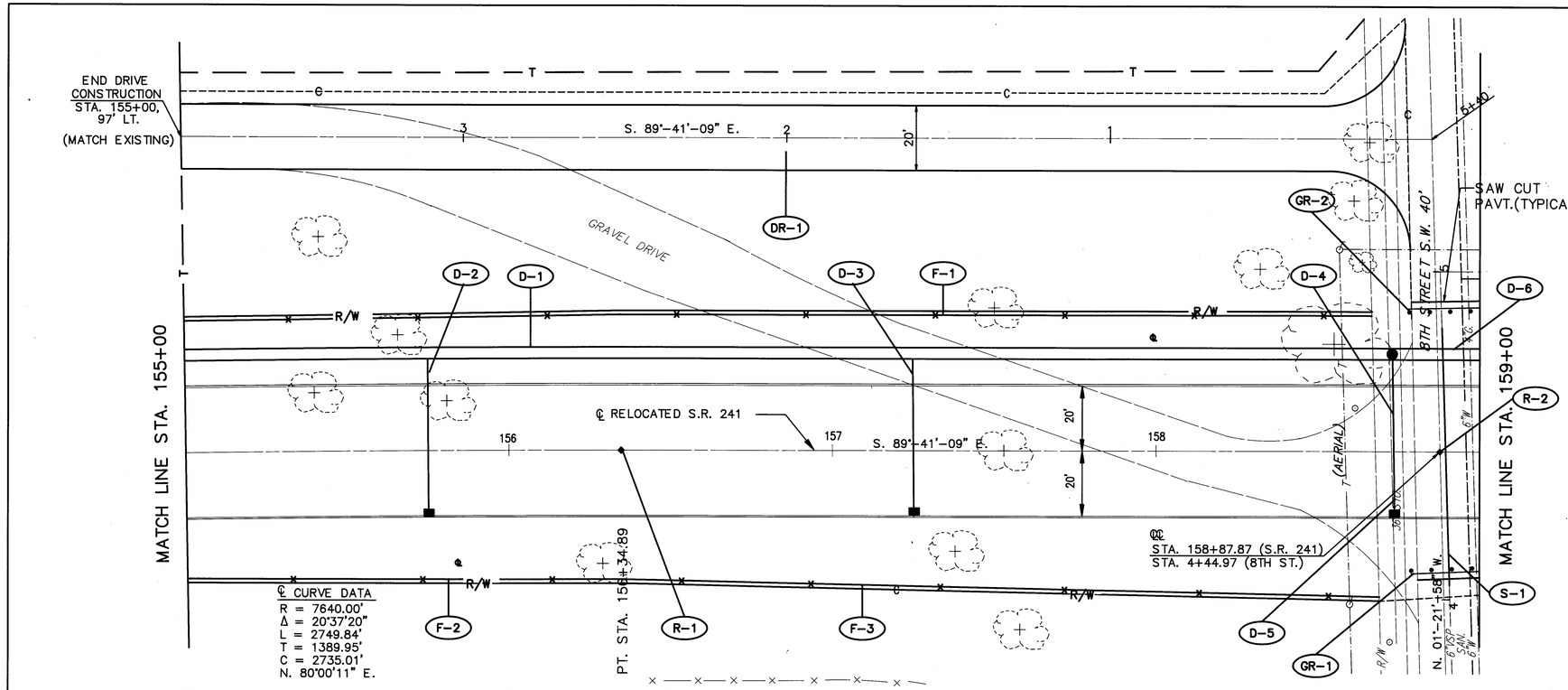
REF.	LOCATION	FENCE, TYPE CL L.F. 607	MONUMENT ASSEMBLY EA. 604	FENCE REMOVED L.F. 202	CATCH BASIN REMOVED EA. 202	PIPE REMOVED (24" AND UNDER) L.F. 202
F–1	STA. 146+00 – 90' LT. TO 149+00, 35' LT.			305		
R–1	STA. 147+50.00 ℄ TO 150+85, LT. AND RT.					
R–2	STA. 150+23 TO 150+85, LT. AND RT.			200		
R–3	STA. 150+23 TO STA. 151+10, 10.0' LT.		1			
R–4	STA. 150+80, 13.0' LT. TO STA. 151+15, 30' LT.				2	20
R–5	STA. 150+96.69 ℄					
F–1	STA. 151+50, 29' RT. TO STA. 155+00, 39' RT.	350				
F–2	STA. 151+50, 49' LT. TO STA. 155+00, 40' LT.	350				
	TOTALS	700	2	505	2	20

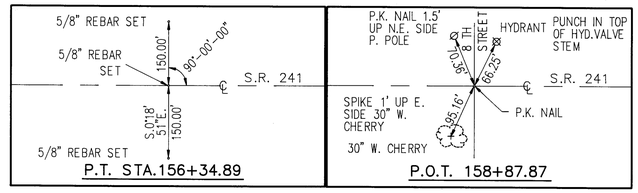
PLAN–PROFILE STA. 145+00 TO STA. 155+00

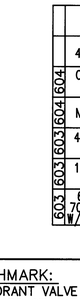
STATE ROUTE 241

CALC. BY RGV DATE 6/91	STA–241–4.22	OHIO	67
CHKD. BY KJS DATE 6/91		FHWA REGION 5	303

FOR TYPICAL SECTIONS SEE SHEET 7
FOR CROSS-SECTIONS SEE SHEETS 157–159
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 255
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 217
FOR STORM SEWER PROFILES SEE SHEETS 157–159
FOR HIGHWAY LIGHTING PLAN SEE SHEET 264







BENCHMARK:
TOP HYDRANT VALVE STEM
NE CORNER 8TH ST. & ALLEY
BETWEEN NEALE & GRIFFITH
ELEV. 984.28

| | | |

BENCHMARK:
□ CUT N.E. CORNER CONC. PAD @ ENTRANCE TO TYSON BEARINGS APPROX. 45' RT. STA. 8+86 6TH ST. S.W. ELEV. 980.06

CALC. BY RGV DATE 6/91	STA–241–4.22
CHKD. BY KJS DATE 6/91	OHIO FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEETS 7–8
FOR CROSS–SECTIONS SEE SHEETS 159–161
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 255
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 215
FOR STORM SEWER PROFILES SEE SHEETS 159, 160
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 264

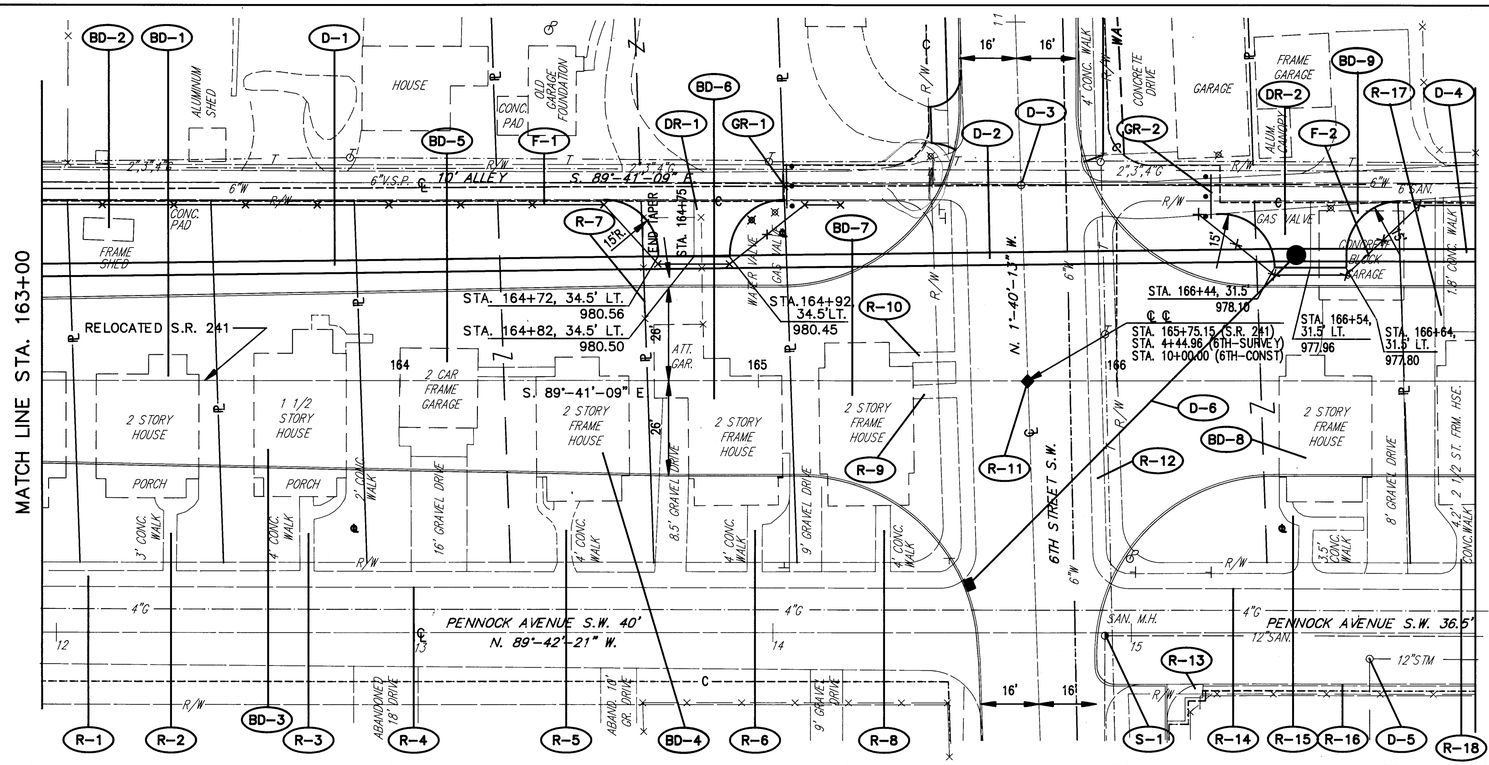
	TEE 42" X 12" X 42"	EA.	2
604	CATCH BASIN NO. 3 W/ V GRATE	EA.	2
604	CATCH BASIN NO. 3A W/ V GRATE	EA.	4
604	MANHOLE NO. 3	EA.	1
603	42" CONDUIT, TYPE C 706.02 1250 D–LOAD	L.F.	50
603	42" CONDUIT, TYPE C 706.02	L.F.	350
603	12" CONDUIT, TYPE C 706.02	L.F.	29
603	12" CONDUIT, TYPE B 706.02	L.F.	122

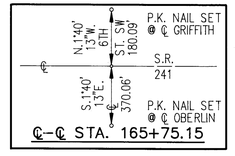
DRAINAGE

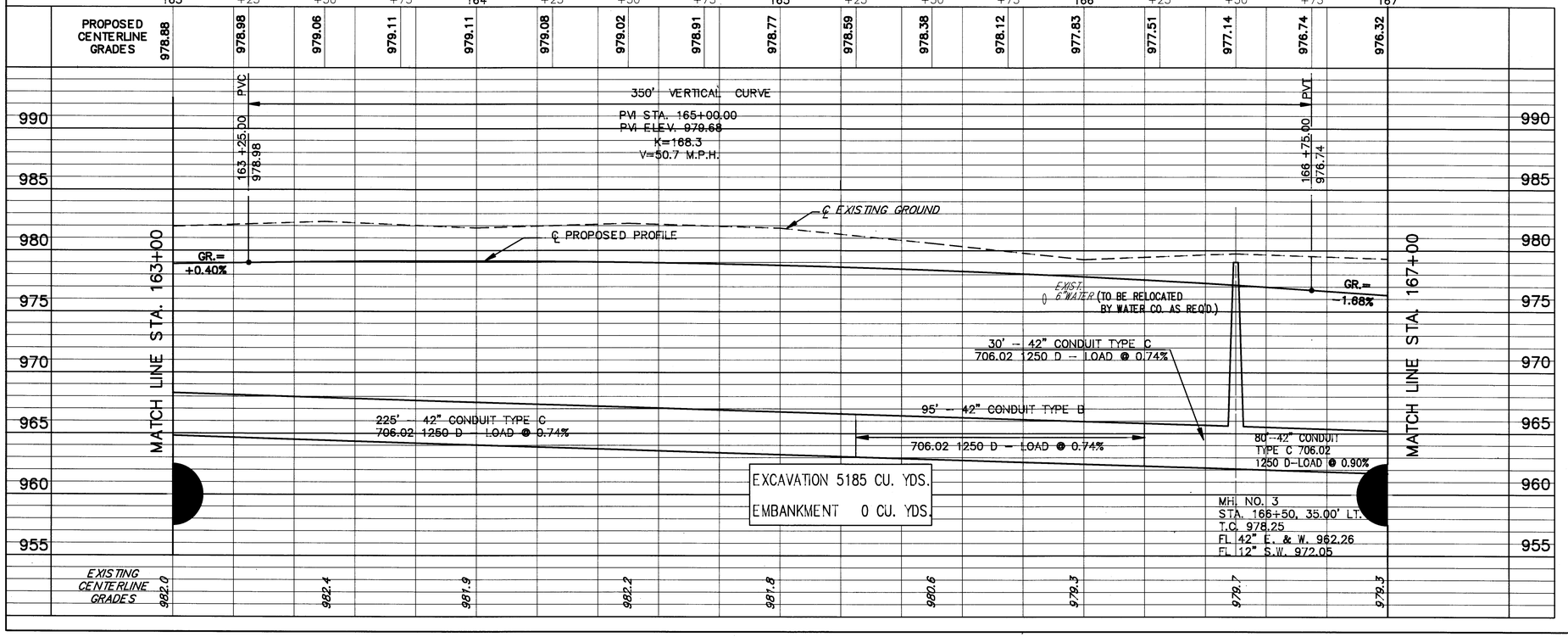
| REF. | LOCATION | | |

FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS-SECTIONS SEE SHEETS 161-163
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR SIDE STREET PLAN & PROFILES SEE SHEET 177
FOR INTERSECTION DETAILS SEE SHEET 222
FOR STORM SEWER PROFILES SEE SHEET 227
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 264

BENCHMARK:
□ CUT NE CORNER CONC. PAD
● ENTRANCE TO TYSON BEARINGS APPROX. 45' RT. STA. 8+86 6TH ST. SW
ELEV. 980.06

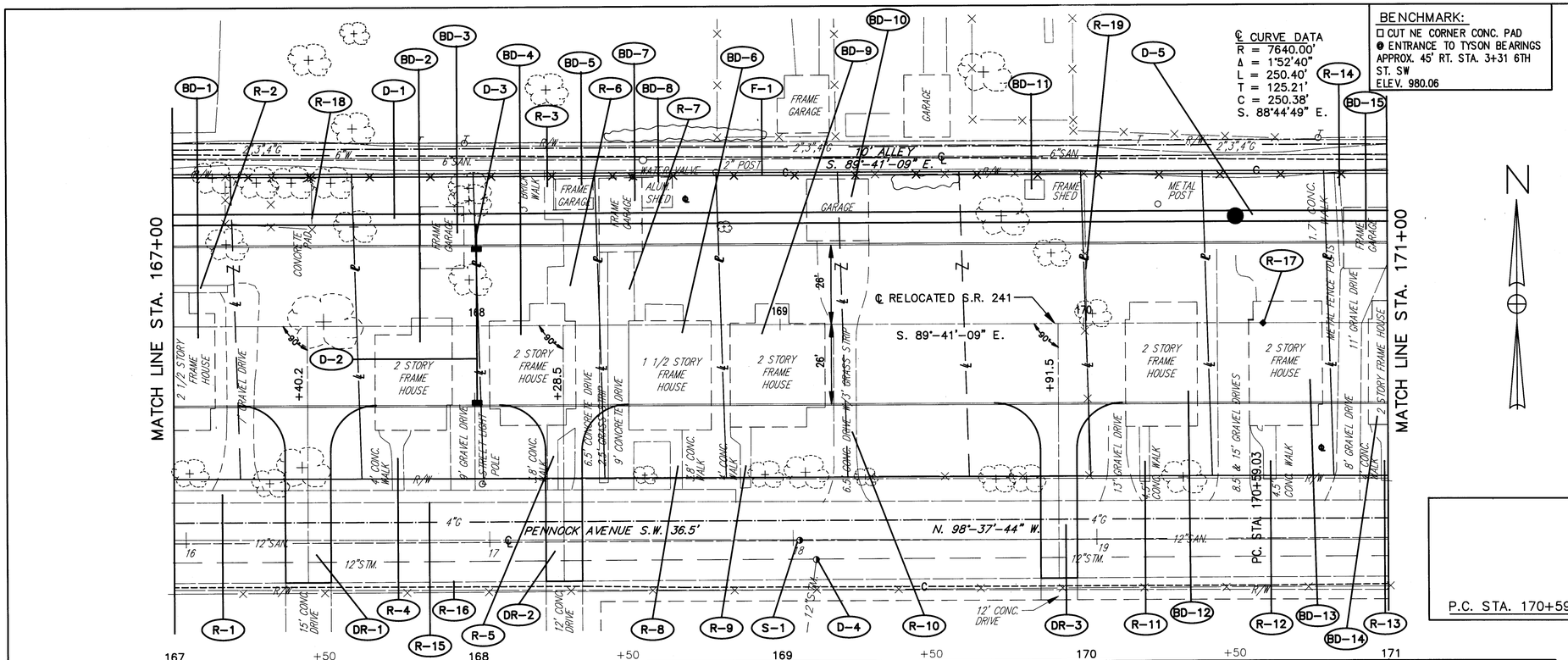


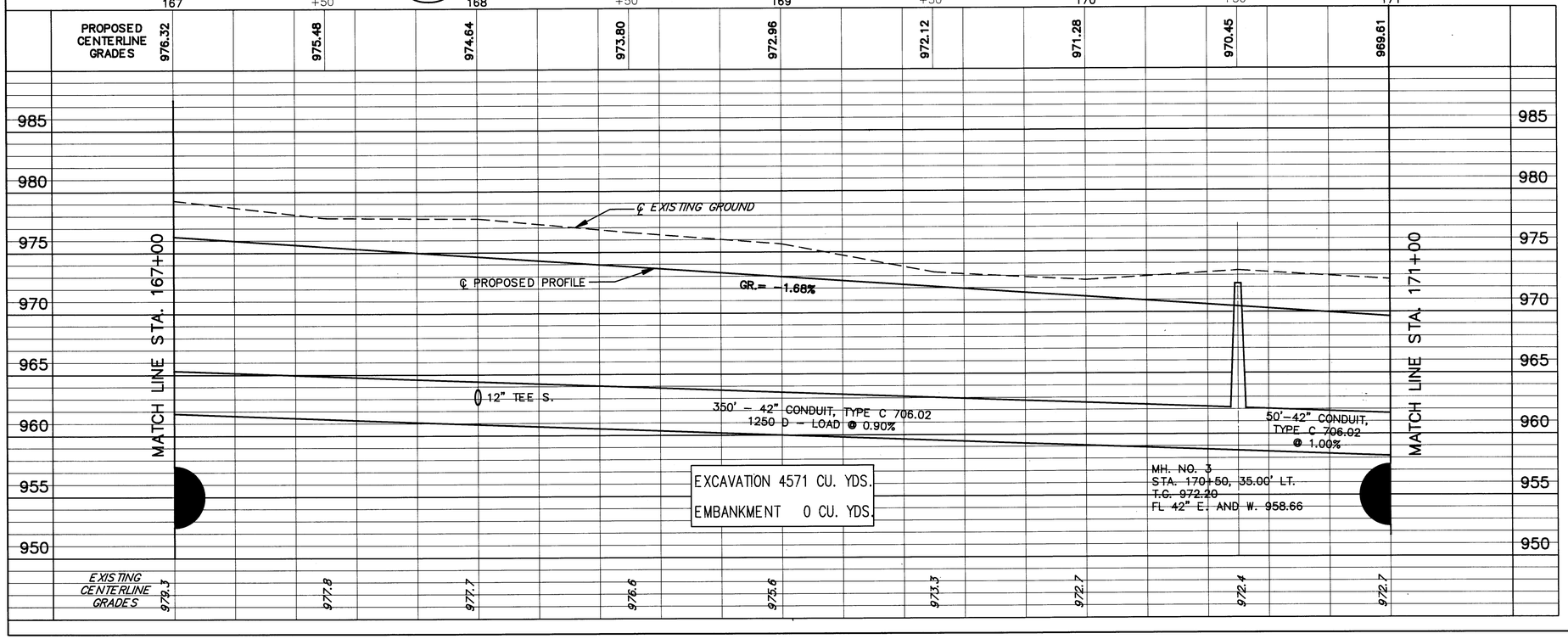




PLAN–PROFILE STA. 163+00 TO STA. 167+00

| | | |





CALC. BY RGV DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS-SECTIONS SEE SHEETS 163-165
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 215
FOR STORM SEWER PROFILES SEE SHEET 163
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 264

	TEE 42"x12"x42"	EA.	1						1
603	42" CONDUIT, TYPE C 706.02 1250 D-LOAD	LF.	350						350
604	MANHOLE SANITARY RECONSTRUCTED TO GRADE AS PER PLAN	EA.						1	1
604	MANHOLE STORM RECONSTRUCTED TO GRADE	EA.			1				1
604	CATCH BASIN NO. 3A W/ V GRATE	EA.		2					2
604	MANHOLE NO. 3	EA.	1						1
603	42" CONDUIT, TYPE C 706.02	LF.				50			50
603	12" CONDUIT, TYPE C 706.02	LF.		9					9
603	12" CONDUIT, TYPE B 706.02	LF.	52						52

DRAINAGE

REF.	LOCATION
D-1	STA. 167+00, 35.0' LT. TO STA. 170+50, 35.0' LT.
D-2	STA. 168+00, 26.0' RT. TO STA. 168+00, 26.0' LT.
D-3	STA. 168+00, 26.0' LT. TO STA. 168+00, 35.0' LT.
D-4	STA. 169+12, 77.0' RT.
D-5	STA. 170+50, 35.0' LT. TO STA. 171+00, 35.0' LT.
S-1	STA. 169+07, 70.0' RT.
	TOTALS

607	FENCE TYPE CL	LF.							
202	CURB REMOVED	LF.							
202	FENCE REMOVED	LF.							
604	MONUMENT ASSEMBLY	EA.						1	1
202	PAVEMENT REMOVED	S.Y.				90			90
202	CURB AND GUTTER REMOVED	LF.				77			77
202	WALK REMOVED	S.F.	740	36	60	90	70		1471

ROADWAY

REF.	LOCATION
R-1	STA. 167+00, 56.0' RT. TO STA. 168+85, 56.0' RT.
R-2	STA. 167+00, 12.0' LT. TO STA. 167+18, 12.0' LT.
R-3	STA. 168+24, 45.0' LT.
R-4	STA. 167+74, 45.0' RT.
R-5	STA. 168+25, 45.0' RT.
R-6	STA. 168+37, 38.0' LT. TO STA. 168+37, 54.0' RT.
R-7	STA. 168+47, 23.0' LT. TO STA. 168+47, 53.0' RT.
R-8	STA. 168+66, 45.0' RT.
R-9	STA. 168+66, 45.0' RT.
R-10	STA. 169+22, 27.0' LT. TO STA. 169+22, 58.0' RT.
R-11	STA. 170+20, 45.0' RT.
R-12	STA. 170+60, 45.0' RT.
R-13	STA. 170+98, 45.0' RT.
R-14	STA. 170+85, 40.0' LT.
R-15	STA. 167+00, 58.0' RT. TO 168+85, 58.0' RT.
R-16	STA. 167+00, 84.0' RT. TO 171+00, 84.0' RT.
R-17	STA. 170+59.03 ℄
R-18	STA. 167+18 TO STA. 167+46, LT.
R-19	STA. 169+30 TO 170+00, LT. AND RT.
F-1	STA. 167+00 TO STA. 171+00, 49.0' LT.
	TOTALS

202	WALK REMOVED	S.F.	740	36	60	90	70		1471
202	CURB AND GUTTER REMOVED	LF.				77			77
202	PAVEMENT REMOVED	S.Y.				90			90
604	MONUMENT ASSEMBLY	EA.						1	1
202	FENCE REMOVED	LF.							
202	CURB REMOVED	LF.							
607	FENCE TYPE CL	LF.							
			81	81	72	51	400	185	1471
			95	95	84				400
									251
									1
									310
								90	400
								220	185
									400

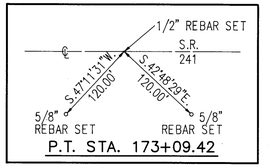
STATE ROUTE 241

PLAN-PROFILE STA. 167+00 TO STA. 171+00

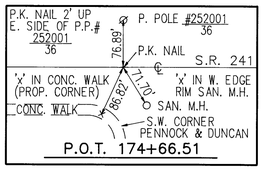
CALC. BY RGV DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

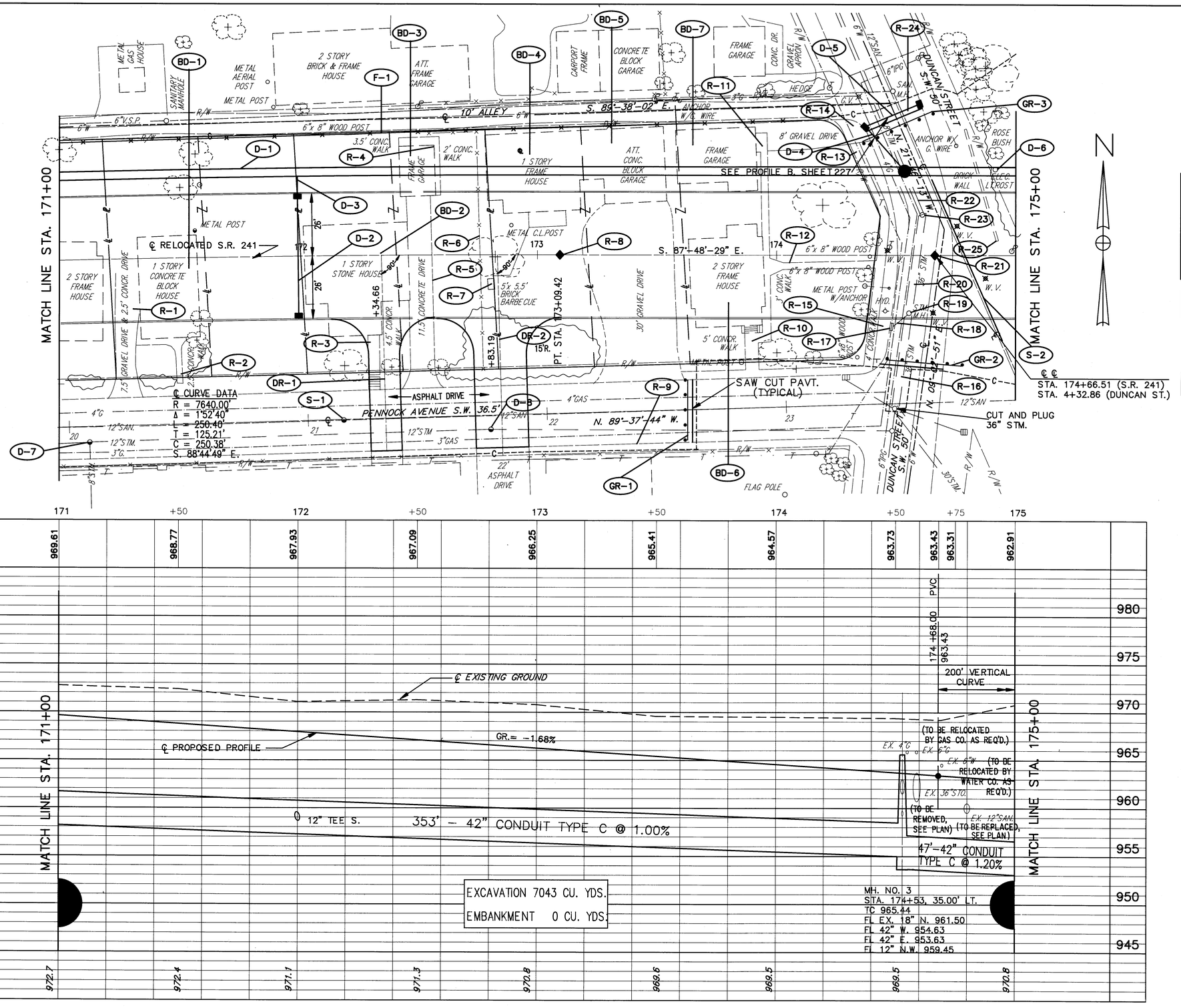
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303

FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS-SECTIONS SEE SHEETS 165-167
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 216
FOR STORM SEWER PROFILES SEE SHEET 165
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR HIGHWAY LIGHTING PLANS SEE SHEET 264
FOR QUANTITIES SEE SHEET 72



BENCHMARK:
HYDRANT (TOP VALVE STEM)
SE CORNER DUNCAN & NEALE
ELEV. 977.57





PLAN-PROFILE STA. 171+00 TO STA. 175+00

STATE ROUTE 241

CALC. BY RGV DATE 6/91	STA-241-4.22	OHIO
CHKD. BY K.S DATE 6/91		FHWA REGION 5

DRAINAGE / SANITARY

REF.	LOCATION	603 12" CONDUIT, TYPE B, 706.02 LF	603 12" CONDUIT TYPE C, 706.02 LF	603 42" CONDUIT, TYPE C, 706.02 LF	604 MANHOLE NO. 3 EA	604 CATCH BASIN NO. 3A W/ V GRATE EA	604 CATCH BASIN NO. 2-2A EA	604 MANHOLE, STORM, RECONSTRUCTED TO GRADE EA	604 MANHOLE SANITARY, RECONSTRUCTED TO GRADE AS PER PLAN EA	603 12" CONDUIT TYPE B 706.08 ASTM C700 ES W/JOINTS AS PER 706.12 L.F.	TEE, 42" x 12" x 42" EA	
D-1	STA. 171+00, 35' LT TO STA. 174+53, 35' LT			353	1						1	
D-2	STA. 172+00, 26' RT TO STA. 172+00, 26' LT	52				2						
D-3	STA. 172+00, 26' LT TO STA. 172+00, 35' LT		9									
D-4	STA. 174+35, 55' LT TO STA. 174+53, 35' LT		25				1					
D-5	STA. 174+35, 55' LT TO STA. 174+60, 64' LT	25					1					
D-6	STA. 174+53, 35' LT TO STA. 175+00, 35' LT			47								
D-7	STA. 171+13, 76' RT							1				
D-8	STA. 172+80, 73' RT							1				
S-1	STA. 172+18, 68' RT								1			
S-2	STA 174+65.5, 31' LT TO STA. 174+95, 36' RT									73		
	TOTALS	77	34	400	1	2	2	2	1	73	1	

ROADWAY

REF.	LOCATION	202 PIPE REMOVED (24" AND UNDER) LF	202 PIPE REMOVED (OVER 24") LF	202 MANHOLE REMOVED, STORM EA	202 CATCH BASIN REMOVED EA	202 STRUCTURE REMOVED BRICK WALL LS	202 WALK REMOVED SF	202 CURB REMOVED LF	202 CURB AND GUTTER REMOVED LF	202 PAVEMENT REMOVED SY	202 STRUCTURE REMOVED BRICK BARBECUE LS	202 FENCE REMOVED LF	604 MONUMENT ASSEMBLY EA	609 ASPHALT CONCRETE CURB, AC-20, TYPE 1 LF	606 GUARDRAIL, BARRIER DESIGN TYPE S LF	607 FENCE TYPE CL LF	36" PLUG EA
R-1	STA. 171+28, RT.						100										
R-2	STA. 171+33, 35' LT. TO STA. 171+52, 52' LT.						80										
R-3	STA. 172+31, 33' RT. TO STA. 172+31, 55' RT.						99										
R-4	STA. 172+42, 47' LT. TO STA. 172+60, 25' LT.						100										
R-5	STA. 172+51, 25' LT. TO STA. 172+51, 55' RT.									102							
R-6	STA. 172+76, 50' LT. TO STA. 172+76, 50' RT.											120					
R-7	STA. 172+81, 12' RT.										LS						
R-8	STA. 173+09.42 ℄												1				
R-9	STA. 171+00, 83' RT. TO STA. 173+65, 78' RT.								265								
R-10	STA. 173+88, 35' RT						75										
R-11	STA. 173+96, 51' LT. TO STA. 173+96, 37' RT.						290										
R-12	STA. 173+97, 5' RT. TO STA. 174+42, 4' RT.						135										
R-13	STA. 174+33, 47' LT. TO STA. 174+38, 46' RT.						384										
R-14	STA. 174+35, 50' LT.									10							
R-15	STA. 173+60, 52' RT. TO STA. 174+40, 48' RT.							177									
R-16	STA. 174+55, 25' RT. TO STA. 174+50, 62' RT.		38														1
R-17	STA. 174+48, 30' RT.				1												
R-18	STA. 174+48, 30' RT. TO STA. 174+55, 25' RT.	9															
R-19	STA. 174+55, 25' RT.			1													
R-20	STA. 174+60, 17' LT. TO STA. 174+55, 25' RT.		40														
R-21	STA. 174+66.51 ℄												1				
R-22	STA. 174+53, 35' LT. TO STA. 174+60, 17' LT.	20															
R-23	STA. 174+60, 17' LT.			1													
R-24	STA. 174+38, 51' LT. TO STA. 174+61, 61' LT.													25			
R-25	STA. 174+80, 52' LT. TO STA. 174+93, 5' LT.					LS											
F-1	STA. 171+00, 49.0' LT. TO STA. 174.04, 55' LT.															303	
GR-1	STA. 173+63, 52' RT. TO STA. 173+63, 77' RT.														25		
GR-2	STA. 147+45, 43.5' RT. TO STA. 174+75, 45' RT.														31.25		
GR-3	STA. 174+36, 47.5' LT. TO STA. 174+65, 60' LT.														31.25		
	TOTALS	29	78	2	1	LS	1263	177	265	112	LS	120	2	25	87.5	303	1

STATE ROUTE 241

QUANTITIES STA. 171+00 TO STA. 175+00

BENCHMARK:
STARK COUNTY BRONZE PLATE IN S. SIDE (END) N.E. WING OF OBERLIN AVENUE BRIDGE
ELEV. 960.92

CALC. BY KJS DATE 6/91
CHKD. BY CH DATE 6/91

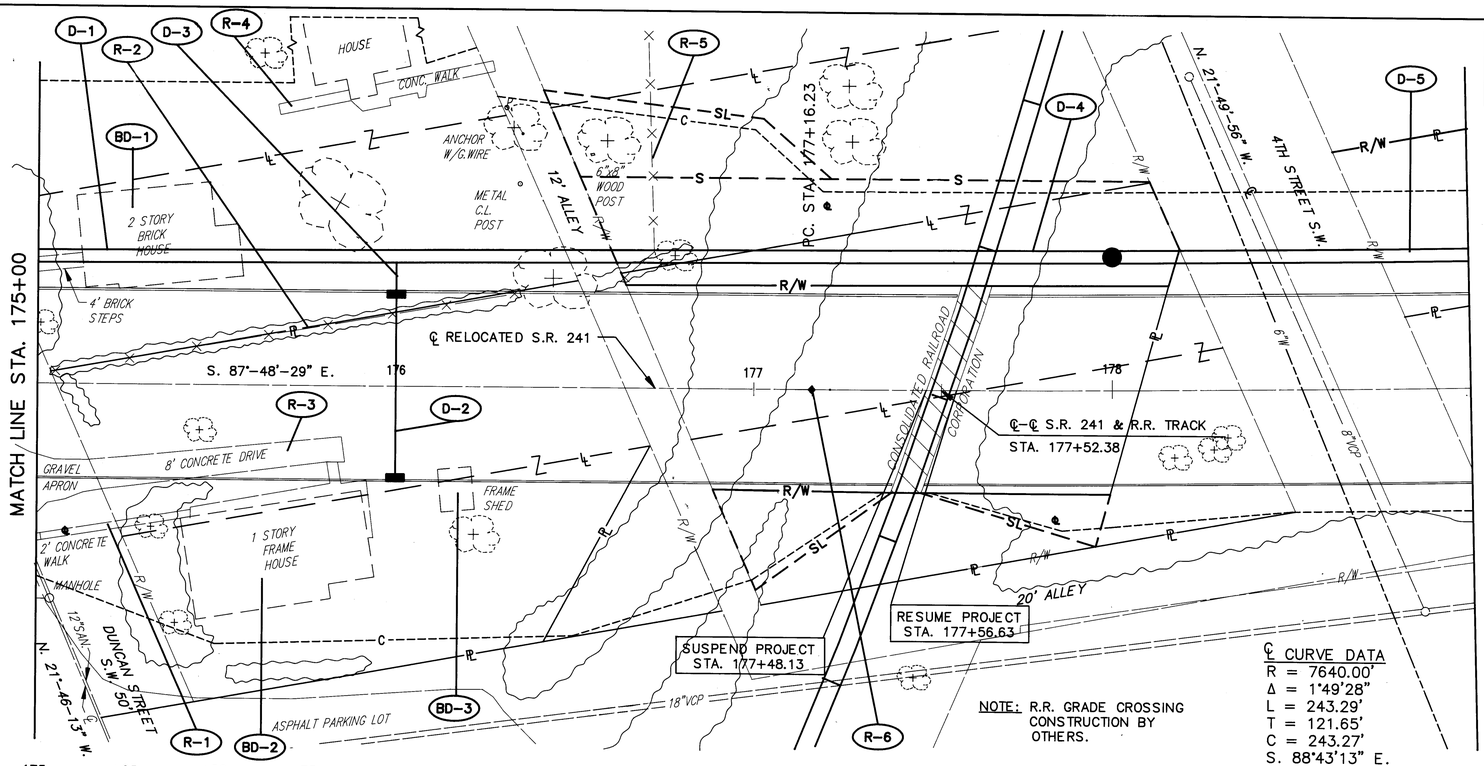
STA-241-4.22

OHIO
FHWA REGION 5

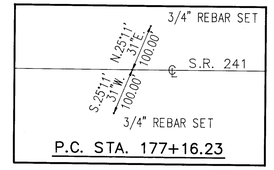
73
303

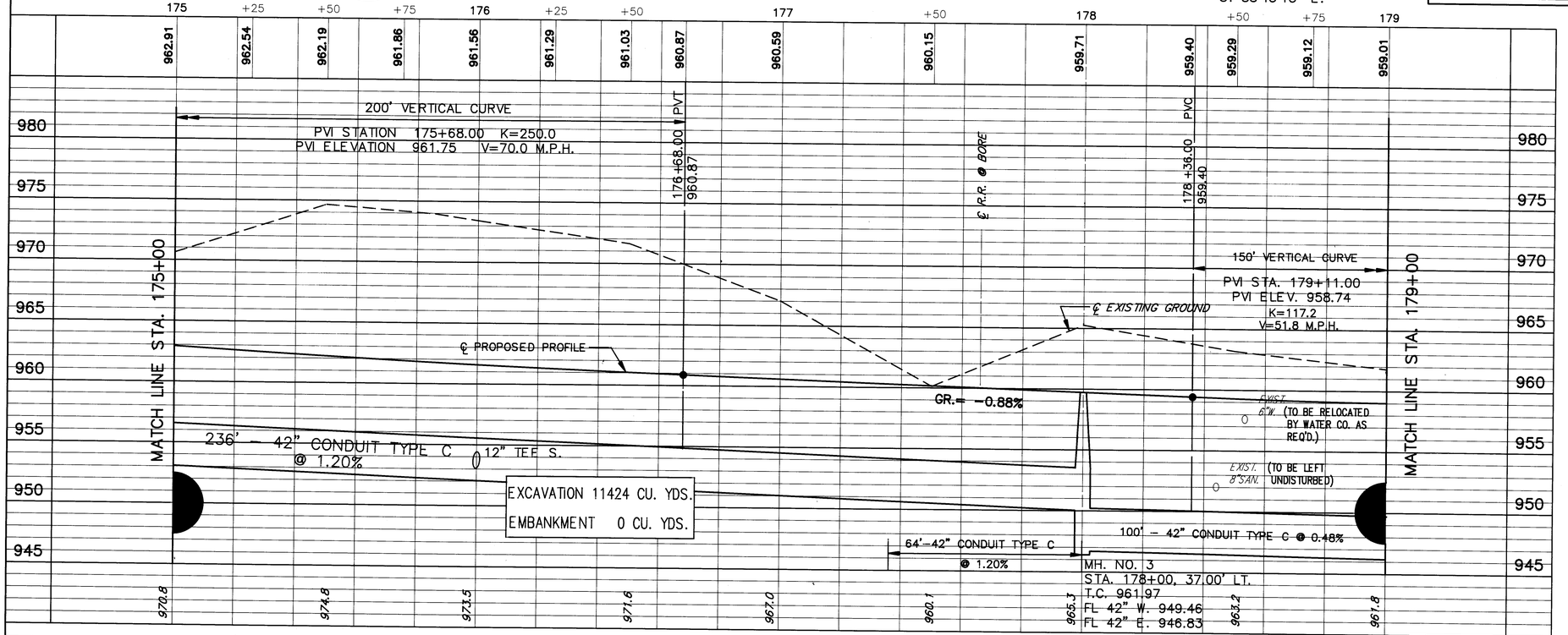
FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS-SECTIONS SEE SHEETS 167-169
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256

FOR STORM SEWER PROFILES SEE SHEET 167
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 265



℄ CURVE DATA
R = 7640.00'
Δ = 1°49'28"
L = 243.29'
T = 121.65'
C = 243.27'
S. 88°43'13" E.





| REF. | | |

℄ CURVE DATA
R = 7640.00'
Δ = 1°49'28"
L = 243.29'
T = 121.65'
C = 243.27'
S. 88°43'13" E.

P.T. STA. 179+59.52

MATCH LINE STA. 179+00

MATCH LINE STA. 183+01.95

℄ RELOCATED S.R. 241

S. 89°-37'-57" E.

+48.67

END PROJECT
STA. 183+01.95
S.L.M. 7.49

℄-℄
STA. 182+37.86 S.R. 241
STA. 5+00 CLEVELAND ST.

* SEE NOTE THIS SHEET

N. 22°-08'-28" W.

CLEVELAND STREET S.W. 50'

N. 19°-17'-51" E.

CLEVELAND STREET S.W. 50'

12" TYP.

6" W.L.

8" VSP

4" CONCR.

4" G.

15" SAN.

18" SAN.

12" TYP.

2 STORY BRICK HOUSE

2 STORY FRAME HOUSE (4 UNIT APARTMENT)

3' CONCR. WALK

BRICK WALL ANCHOR W/ G.WIRE

CONCR. APRON

CONCR. WALK

CONCR. STEPS

BRICK PAVEMENT

GRAVEL PARKING LOT

GRAVEL DRIVE

ASPHALT PARKING LOT

20' ALLEY

12' Alley W. STONE DRIVE

BUSHES

PLANTER

1" C.L. POST

4"x 4" C.L. POST

C.L. POST

2" METAL POST

LT. STRAIN POLE

HYD.

G.WIRE W/ ANCHOR

METAL STRAIN POLE

ELEC. BOX

"REPUBLIC" SIGN

"REPUBLIC" SIGN

CONCR. WALK

R/W

BENCHMARK:
STARK COUNTY BRONZE PLATE IN S. SIDE (END) NE WING OF OBERLIN AVENUE BRIDGE
ELEV. 960.92

CALC. BY KJS DATE 6/91	STA–241–4.22
CHKD. BY CCH DATE 6/91	

OHIO
FHWA REGION 5

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FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS–SECTIONS SEE SHEETS 169–171
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR UNDERDRAIN QUANTITIES SEE SHEET 32, 33
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 216
FOR SIDE STREET PLAN & PROFILES SEE SHEET 178
FOR INTERSECTION DETAILS SEE SHEET 223
FOR STORM SEWER PROFILES SEE SHEET 227
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 43
FOR HIGHWAY LIGHTING PLAN SEE SHEET 265

	TEE 42" X 12" X 42"	EA.	EA.		2							1	2
604	MANHOLE SANITARY RECONSTRUCTED TO GRADE AS PER PLAN	EA.	EA.							1		1	2
604	CATCH BASIN NO. 3A W/ V GRATE	EA.	EA.			2		1	1	2		7	
604	CATCH BASIN NO. 3 W/ V GRATE	EA.	EA.	2								2	
604	MANHOLE NO. 3	EA.	EA.	1						1		2	
603	42" CONDUIT, TYPE C 706.02	L.F.	L.F.	265								265	1
603	12" CONDUIT, TYPE C 706.02	L.F.	L.F.		11	52	12	75	49	24	36	58	264
603	12" CONDUIT, TYPE B 706.02	L.F.	L.F.	52									

DRAINAGE

REF.	LOCATION
D–1	STA. 179+25, 26.0' LT.
D–2	STA. 179+25, 26.0' LT. TO STA. 179+25, 37.0' LT.
D–3	STA. 179+00, 37.0' LT.
D–4	STA. 180+25, 26.0' RT. TO STA. 180+25, 37.0' LT.
D–5	STA. 180+25, 26.0' LT. TO STA. 180+25, 37.0' LT.
D–6	STA. 181+65, 37.0' LT. TO STA. 181+65, 42.0' LT.
D–7	STA. 181+65, 42.0' LT. TO STA. 181+87, 55.0' RT.
D–8	STA. 181+87, 55.0' RT. TO STA. 182+37, 62.0' RT.
D–9	STA. 182+37, 62.0' RT. TO STA. 182+53, 43.0' RT.
D–10	STA. 182+48, 24.0' RT.
D–11	STA. 182+73.5, 56.0' RT.
D–12	STA. 182+97, 28.5' RT.

NOTE: TABULATION OF 42" STORM SEWER FROM MH TO MATCH LINE (STA. 183+01.95) IS SHOWN ON SHEET NO.

TOTALS

604	MONUMENT ASSEMBLY	EA.	EA.				1	1				2	
202	CATCH BASIN REMOVED	EA.	EA.						1			1	
202	CONCRETE STEPS REMOVED	L.S.	L.S.						L.S.			L.S.	
202	STRUCTURE REMOVED PLANTER	L.S.	L.S.			L.S.						L.S.	
202	WALK REMOVED	S.F.	L.S.	335	294							629	L.S.

ROADWAY

REF.	LOCATION
R–1	STA. 181+34, 10.0' LT. TO STA. 182+07, 24.0' LT.
R–2	STA. 181+30, 40.0' LT. TO STA. 181+93, 57.0' LT.
R–3	STA. 180+95, 8.0' LT.
R–4	STA. 179+59.52
R–5	STA. 182+37.86
R–6	STA. 181+61, 9.0' LT.
R–7	STA. 183+00, 28.0' RT.

TOTALS

* PROVIDE CONCRETE COLLAR BETWEEN THE EXISTING 18" SANITARY SEWER AND PROPOSED 42" STORM SEWER AT STA. 182+35, 25' RT.

SEE DETAIL SHEET 239.

P.K. NAIL FND. @ N. END OF GUARDRAIL @ CORNER OF PARKING STRIPES
CLEVELAND ST.
N.69°E. 74.15'
P.K. NAIL 3' UP S. SIDE POWER POLE
S.R. 241
S.70°W., 121.37'
S.6°E., 109.78'
CLEVELAND ST.
P.K. NAIL 3' UP W. SIDE POWER POLE
℄-℄ STA. 182+37.86

5/8" REBAR SET
100.00'
90°-00'-00"
℄ S.R. 241
70.00'
90°-00'-00"
R.R. SPIKE SET W/PUNCH MARK
R.R. SPIKE
P.T. STA. 179+59.52

FOR STORM SEWER OUTLET SEE SHEET No. 225

179 +25 +50 +75 180 +50 181 +50 182 +50 183 +01.95

959.01 958.95 958.95 959.00 959.04 959.10 959.30 959.50 959.70 959.90 960.10 960.30±

150' VERTICAL CURVE
PVI STA. 179+11.00
PVI ELEV. 958.74
K=117.2
V=51.8 M.P.H.
PVT 179+86.00 959.04

℄ EXISTING GROUND
℄ PROPOSED PROFILE
GR.= +0.40%

EXIST. (TO BE RELOCATED BY O.B.T. TELEPHONE CO. AS REQ'D.)
EXIST. (TO BE RELOCATED 12" G. BY GAS CO. AS REQ'D.)

12" TEE S.
12" TEE S.
265' – 42" CONDUIT, TYPE C @ 0.48%
12" TEE N.E.

EXIST. 18" SAN.
M.H. No.3
STA. 181+65, 37.00' LT.
T.C. 960.00
FL 42" W. 945.08
FL 42" E. 945.00
FL 12" N.E. 954.62
EXIST. 9" SAN. (TO BE LEFT UNDISTURBED)
EXIST. 15" SAN.

EXCAVATION 4860 CU.YDS.
EMBANKMENT 5 CU.YDS.

961.8 961.1 962.0 964.4 964.4 962.2 961.0 960.6 960.3

MATCH LINE STA. 179+00

MATCH LINE STA. 183+01.95

970 965 960 955 950 945 940 935

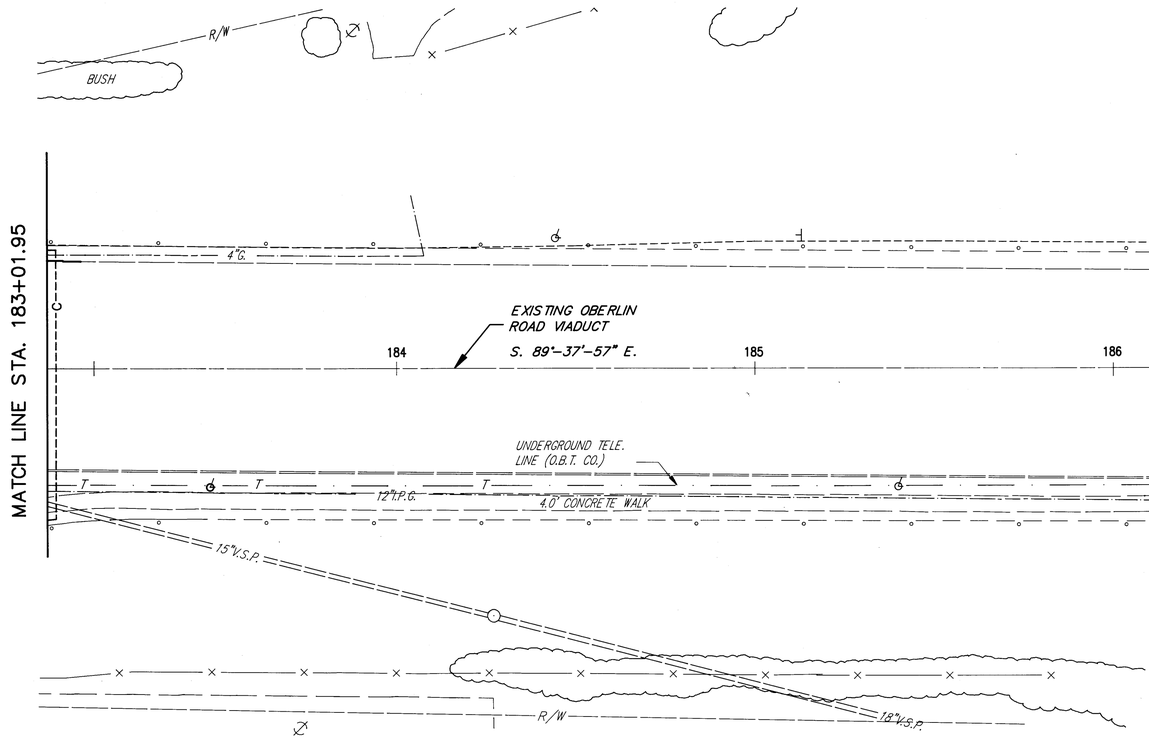
PLAN – PROFILE STA. 179+00 TO STA. 183+01.95

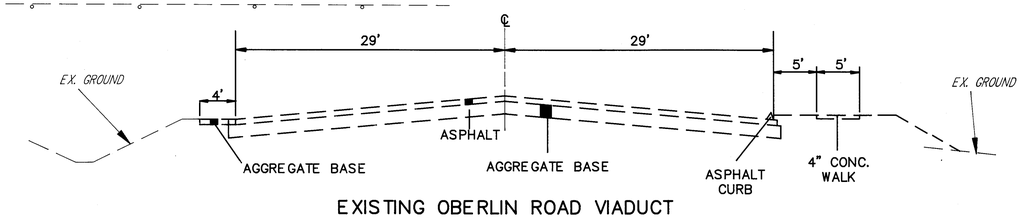
STATE ROUTE 241

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

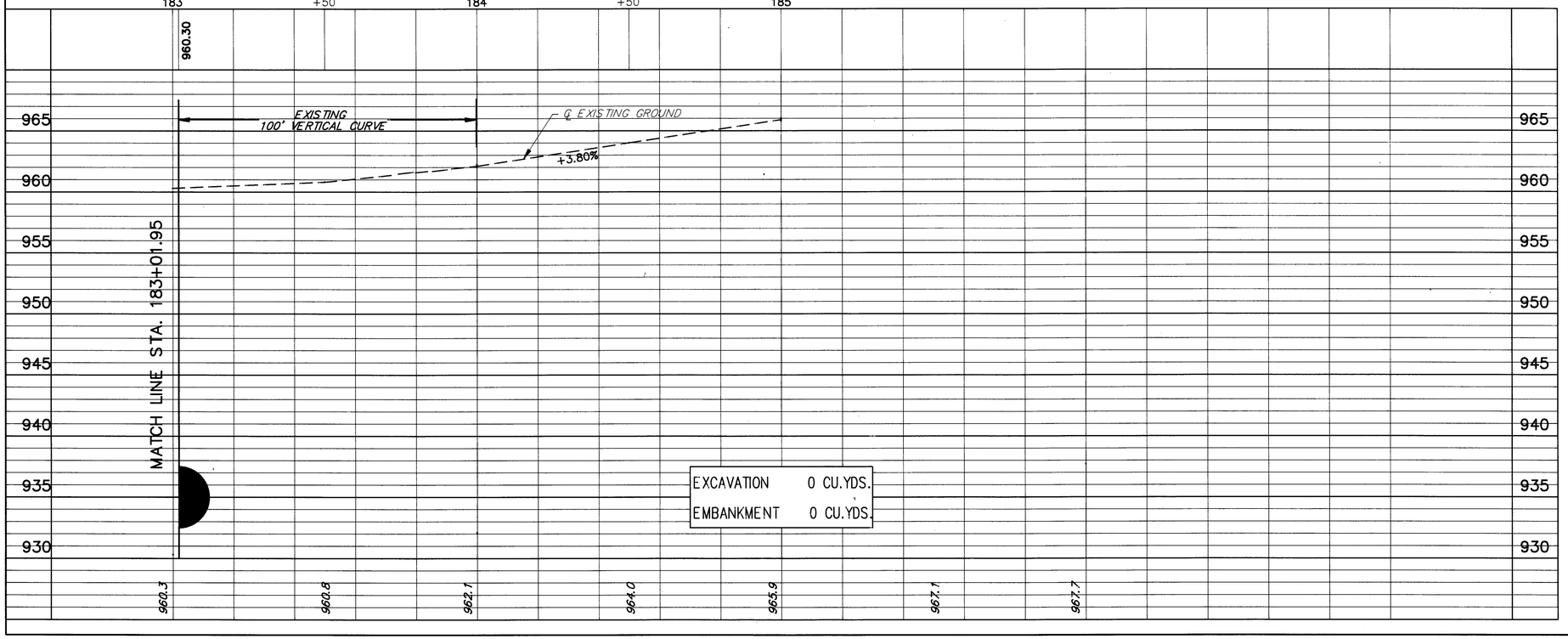
75
303

BENCHMARK
STARK COUNTY BRONZE PLATE IN S. SIDE (END) N.E. WING OF OBERLIN AVENUE BRIDGE. ELEV. 960.92





EXISTING OBERLIN ROAD VIADUCT
TYPICAL SECTION



EXCAVATION	0 CU.YDS.
EMBANKMENT	0 CU.YDS.

STATE ROUTE 241

PLAN – PROFILE STA. 183+01.95 TO STA. 186+00

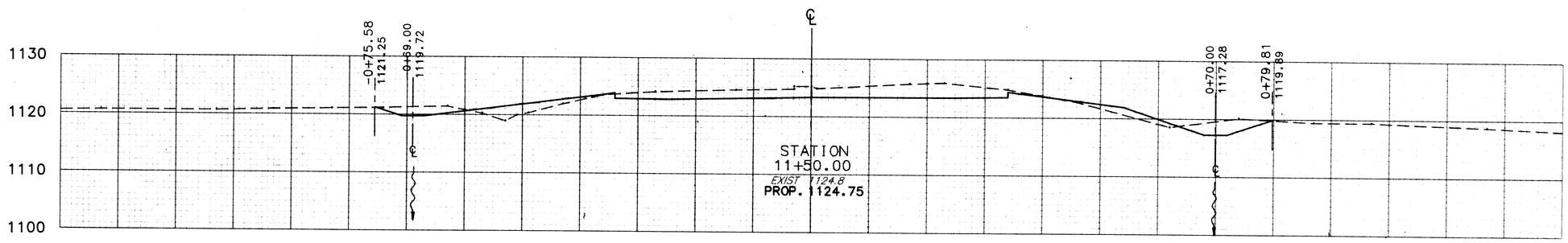
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

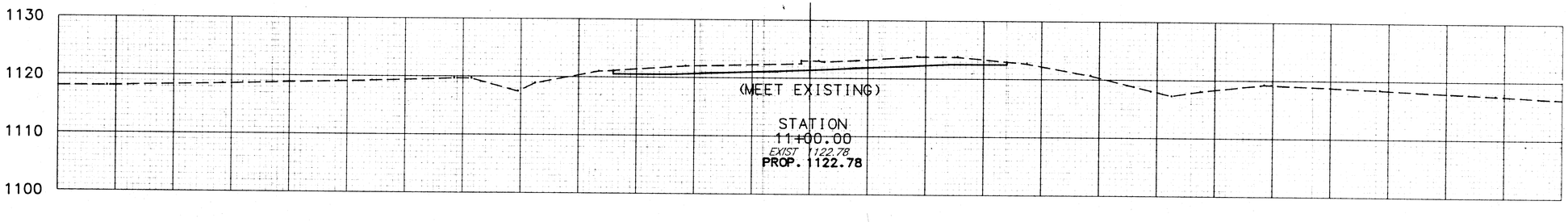
STA. - 241 - 4.22

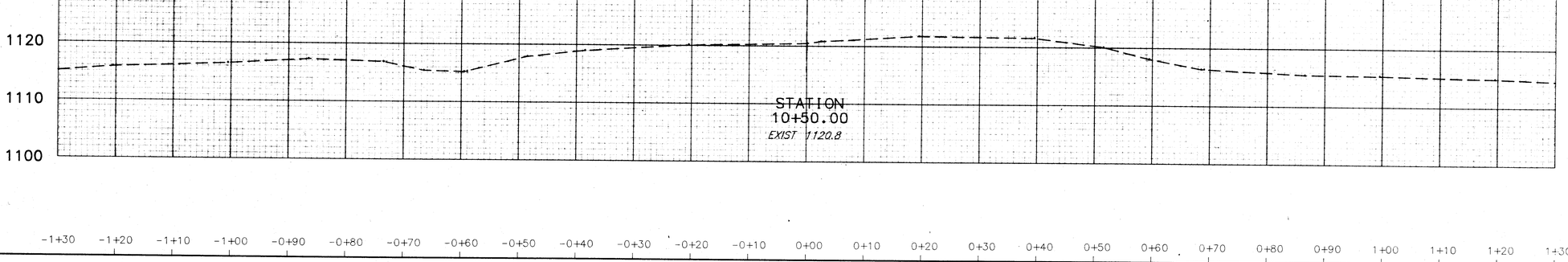
OHIO

FHWA REGION 5

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10







-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	167	38		
			238	35
AHEAD	90	0		

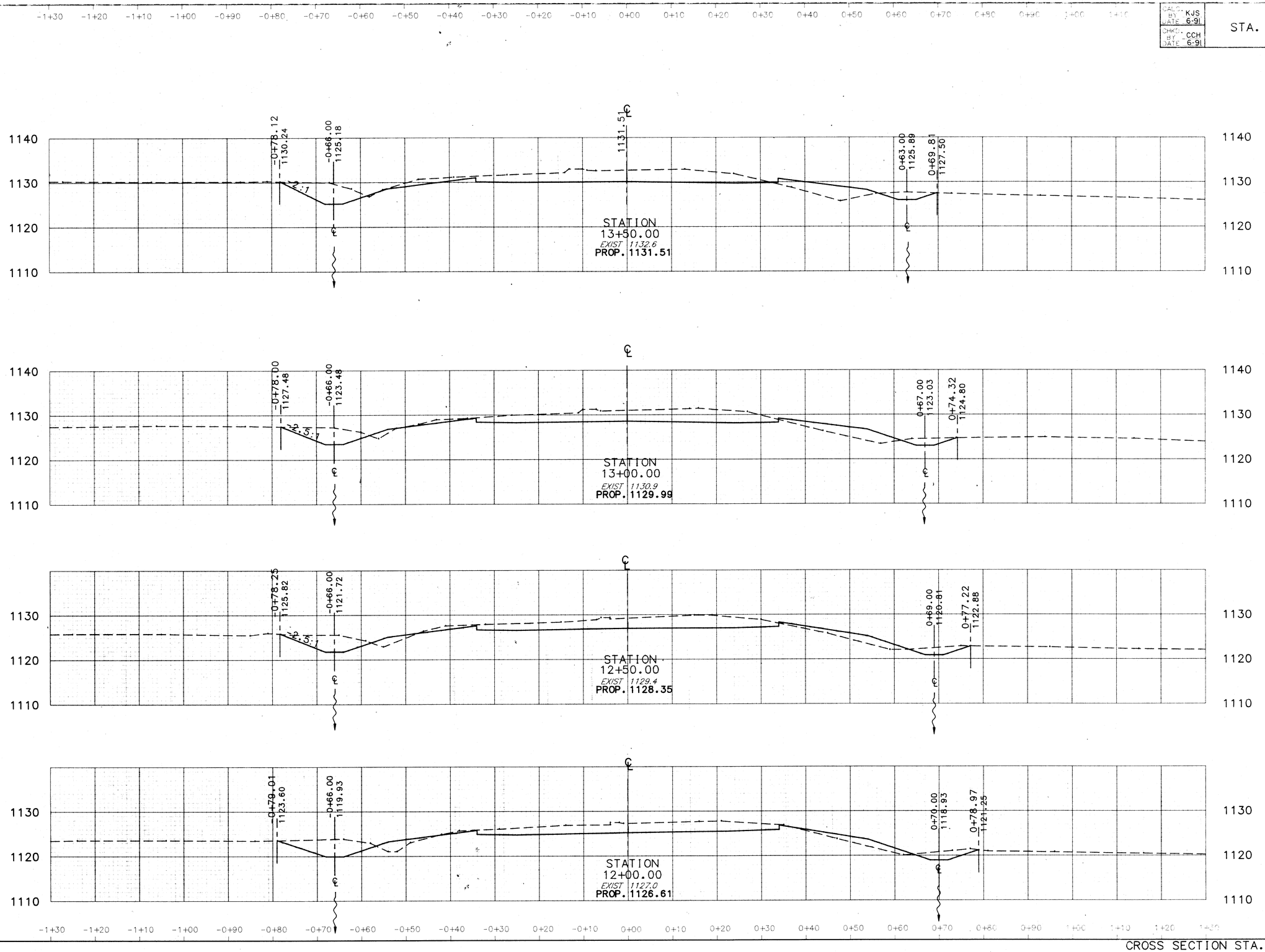
241XY1

STATE ROUTE 241

CROSS SECTION STA. 10+50 TO STA. 11+50

CALC'D BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHK'D BY CCH DATE 6-91		FHWA REGION 5

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303

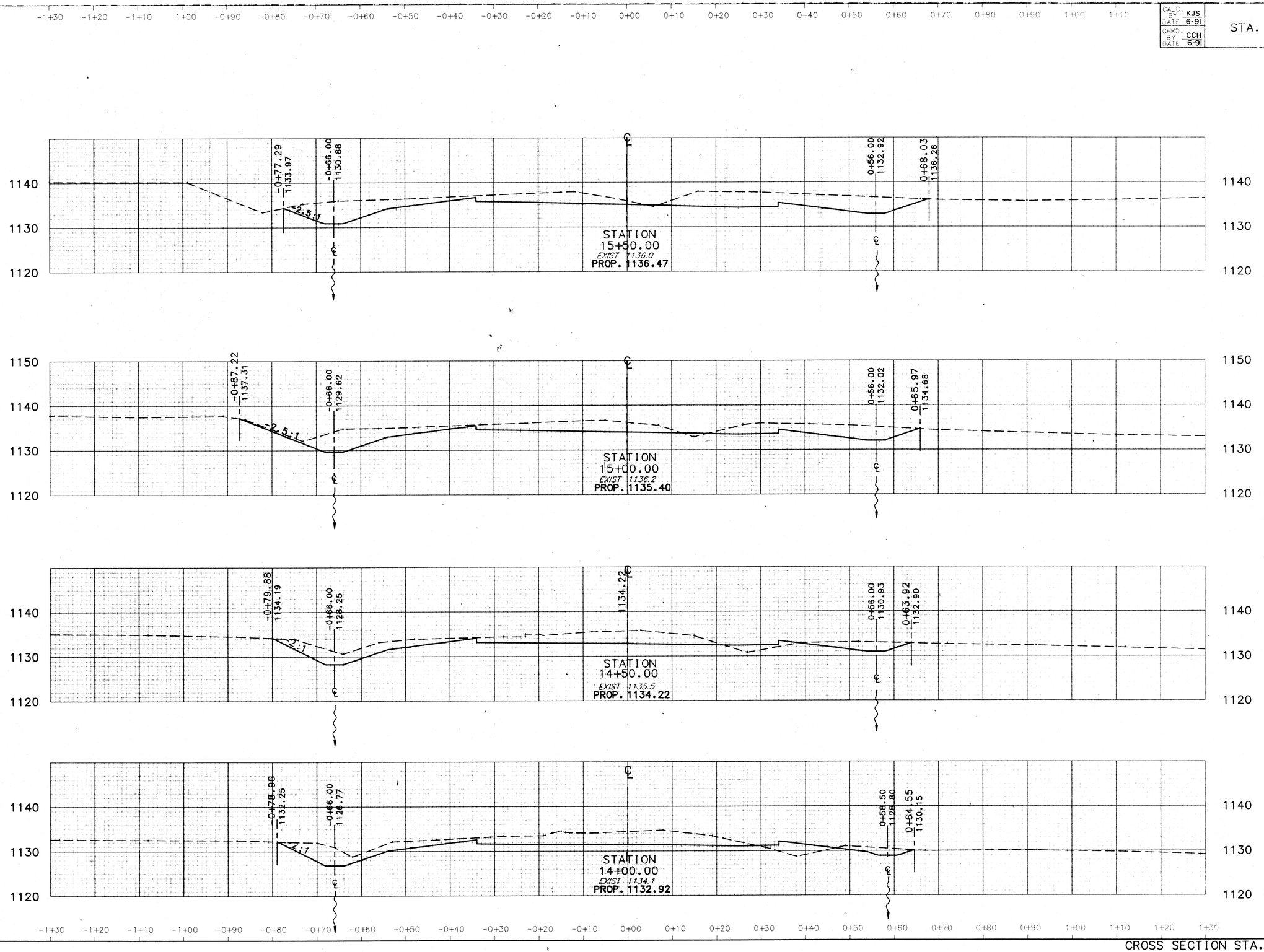


END AREA		VOLUME	
CUT	FILL	CUT	FILL
235	46		
		424	86
223	46		
		413	72
224	32		
		410	61
220	35		
		358	67

STATE ROUTE 241

241XS

CROSS SECTION STA. 12+00 TO STA. 13+50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		703	1
339	0		
		572	2
278	2		
		472	15
231	15		
		445	37
250	26		
		449	67

STATE ROUTE 241

241XY3

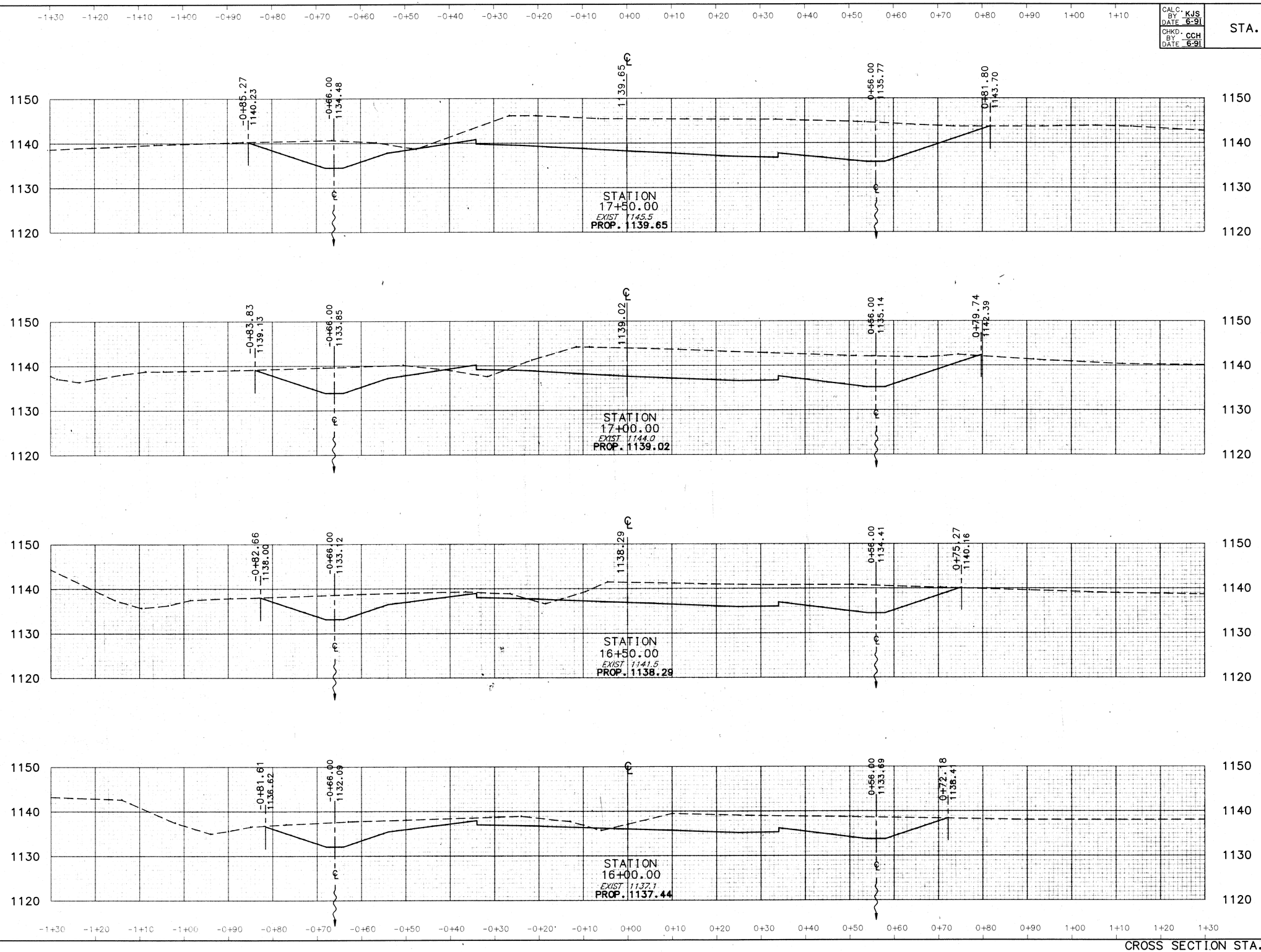
CROSS SECTION STA. 14+00 TO STA. 15+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
928	1		
		1504	7
698	7		
		1129	9
522	3		
		872	3
420	1		

241XY4

CROSS SECTION STA. 16+00 TO STA. 17+50

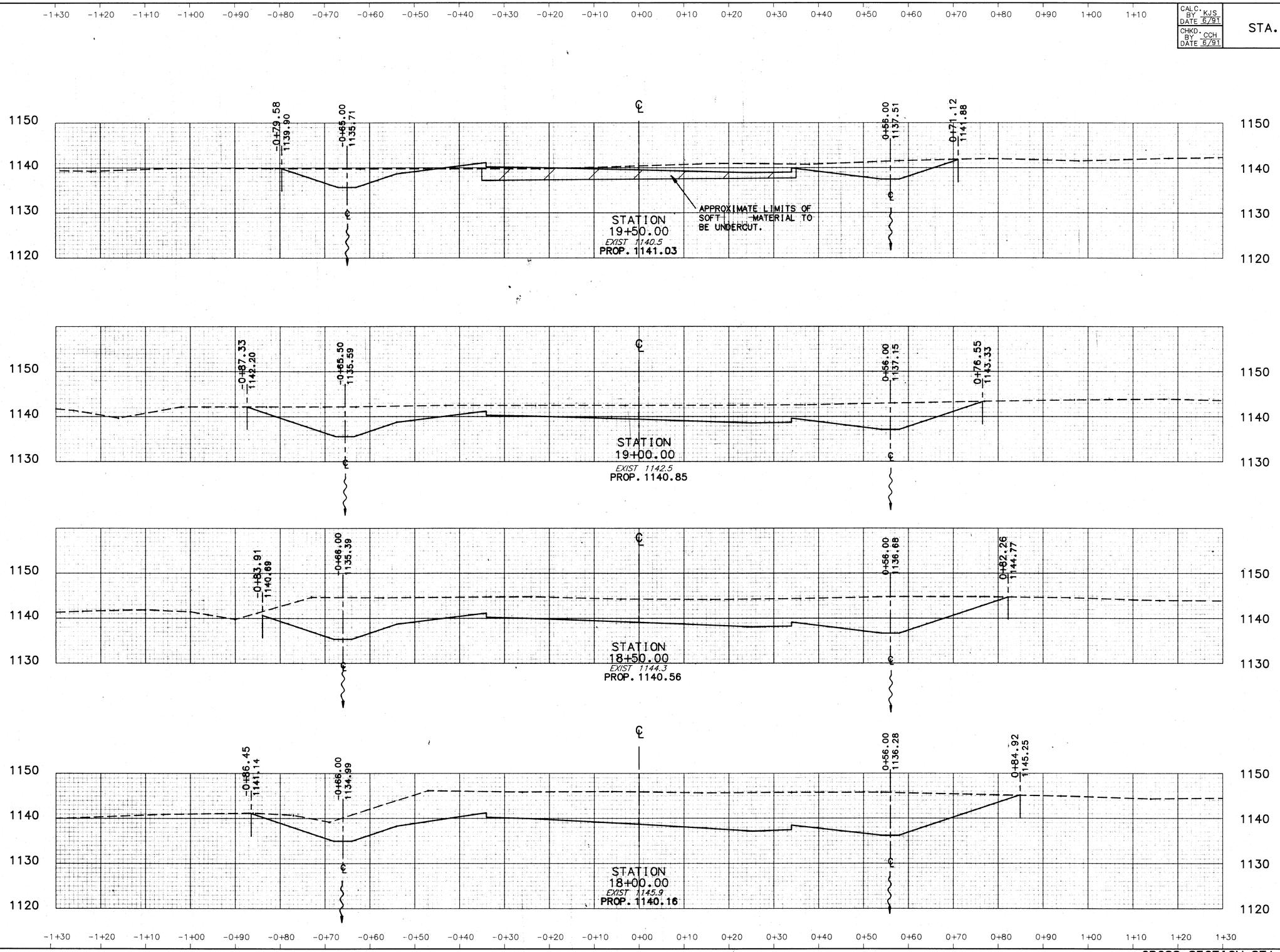
STATE ROUTE 241

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
217	14		
		720	13
561	0		
		1360	0
907	0		
		1808	0
1045	0		
		1827	1

241X15

STATE ROUTE 241

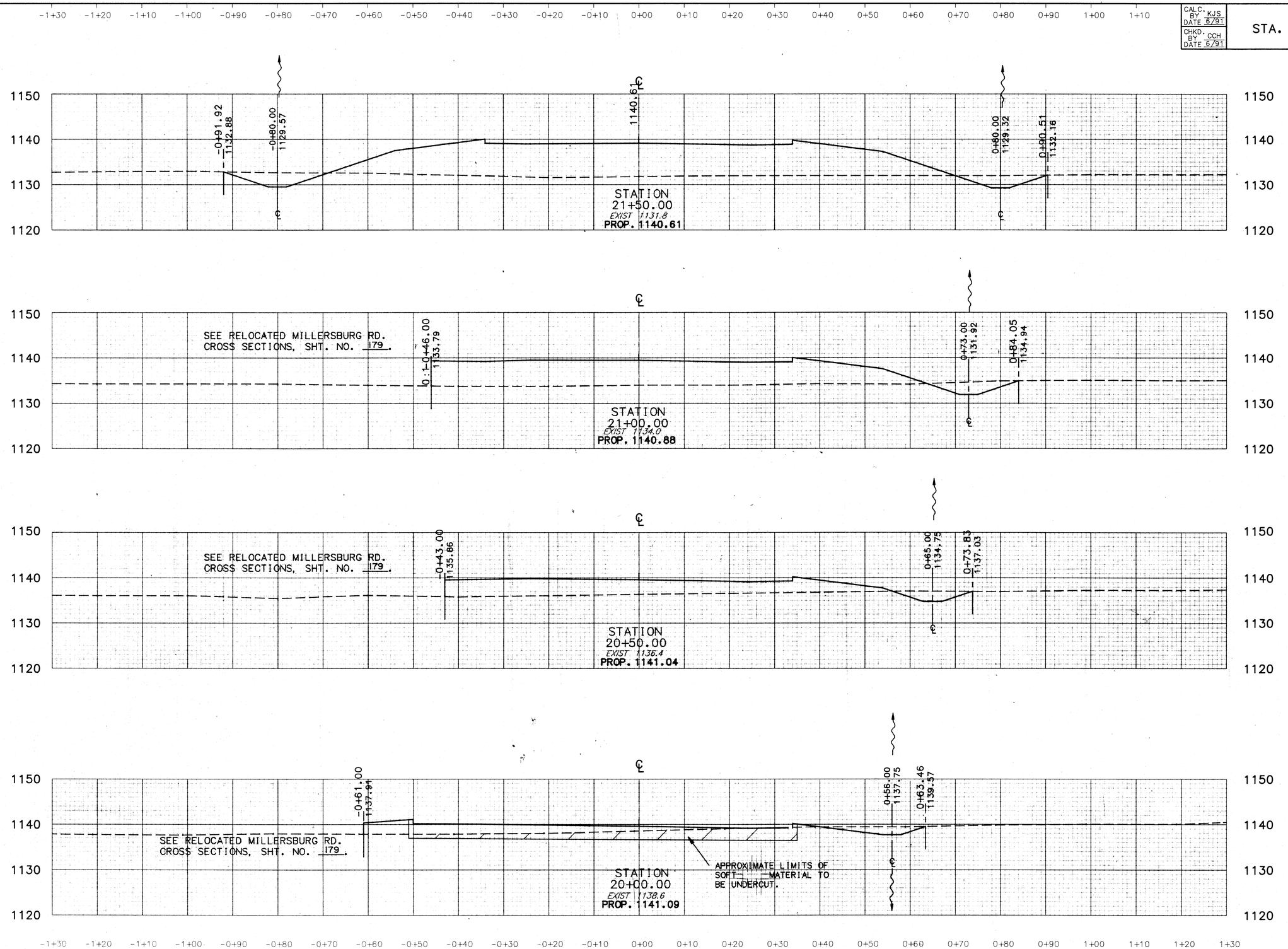
CROSS SECTION STA. 18+00 TO STA. 19+50

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
76	833		
		101	1275
33	545		
		55	778
25	296		
		46	405
24	141		
		224	143

241XZ1

STATE ROUTE 241

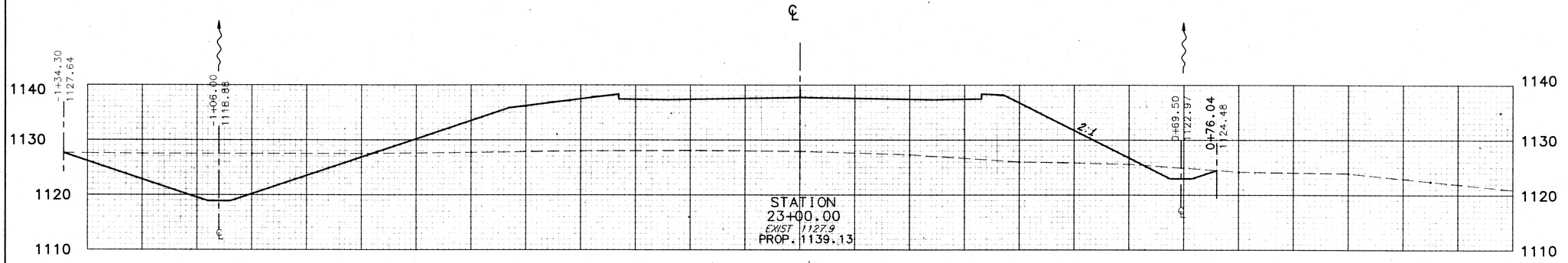
CROSS SECTION STA. 20+00 TO STA. 21+50

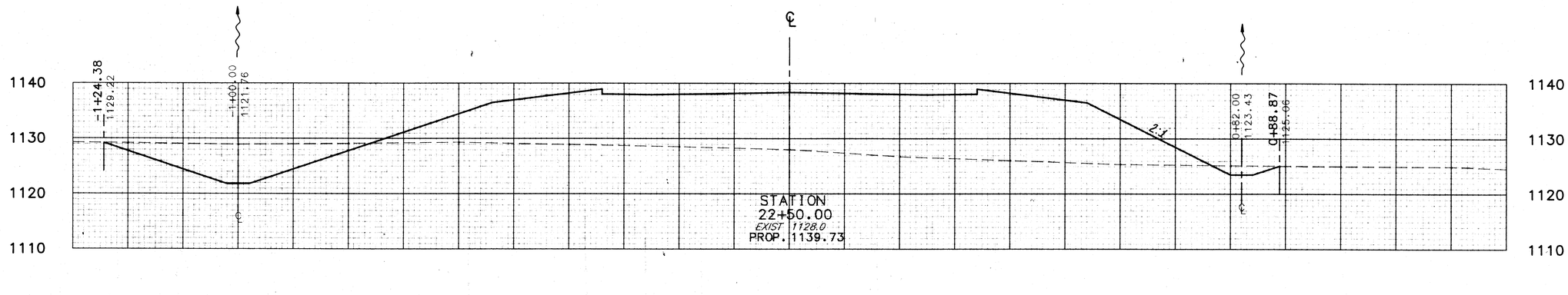
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

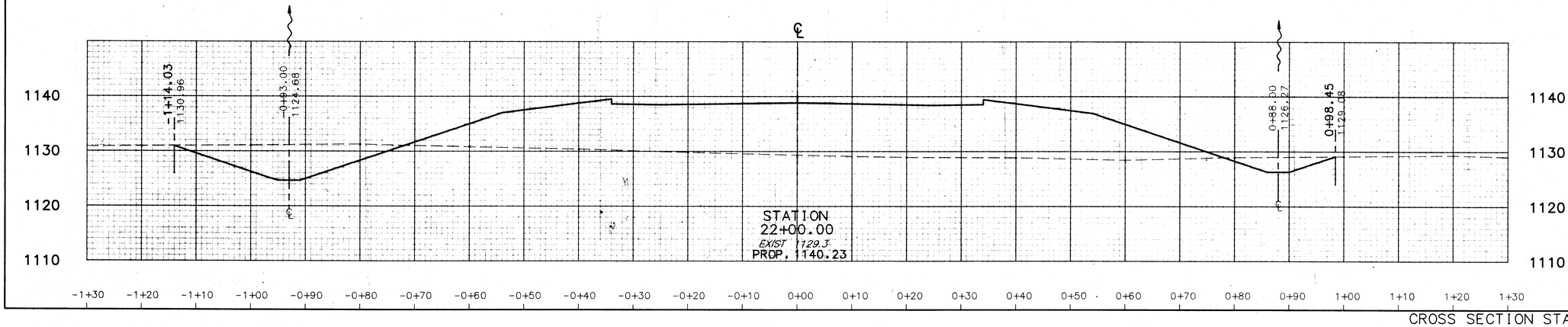
STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		569	2289
276	1133		
		442	2270
202	1319		
		358	2270
186	1133		
		242	1820

STATE ROUTE 241

241X22

CROSS SECTION STA. 22+00 TO STA. 23+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

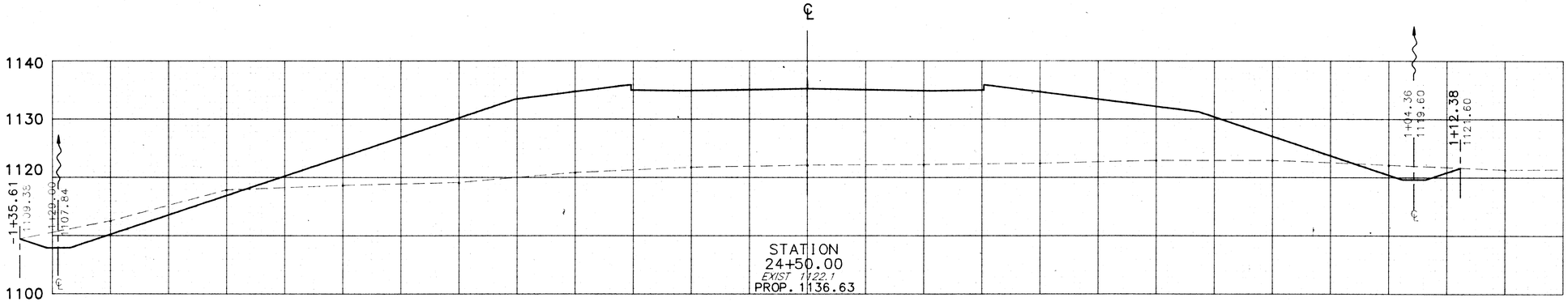
STA. - 241 - 4.22

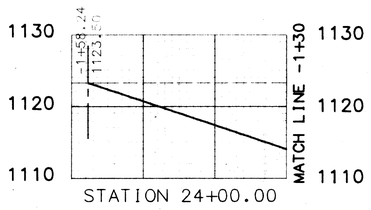
OHIO

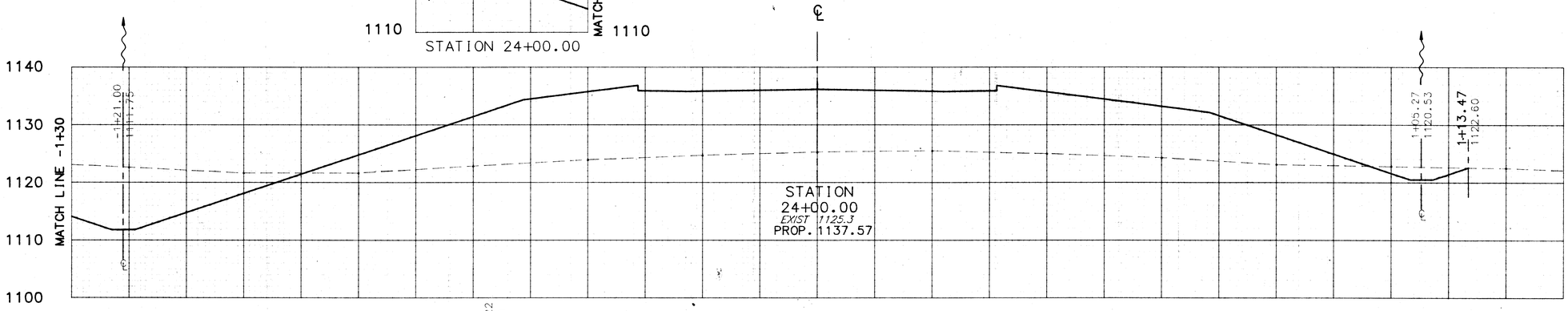
FHWA REGION 5

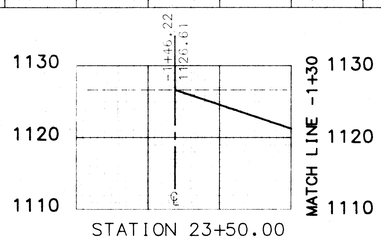
83/303

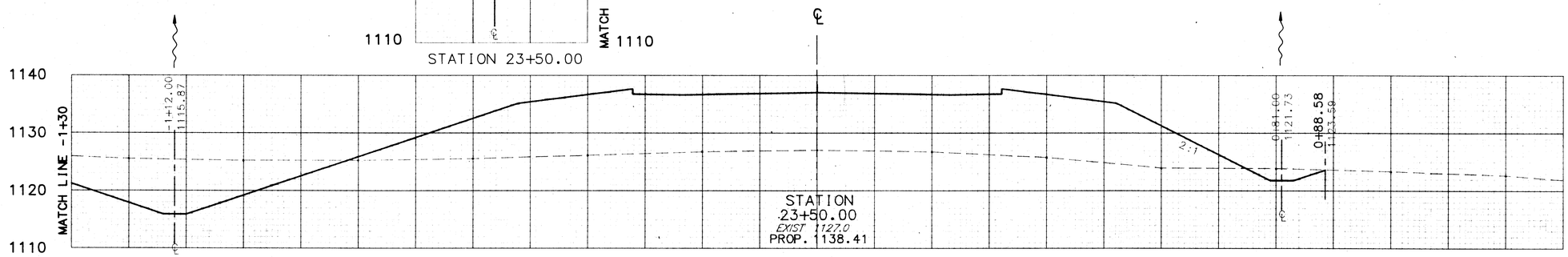
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10











END AREA		VOLUME	
CUT	FILL	CUT	FILL
97	1904		
		480	3262
421	1619		
		704	2739
339	1339		

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

CROSS SECTION STA. 23+50 TO STA. 24+50

STATE ROUTE 241

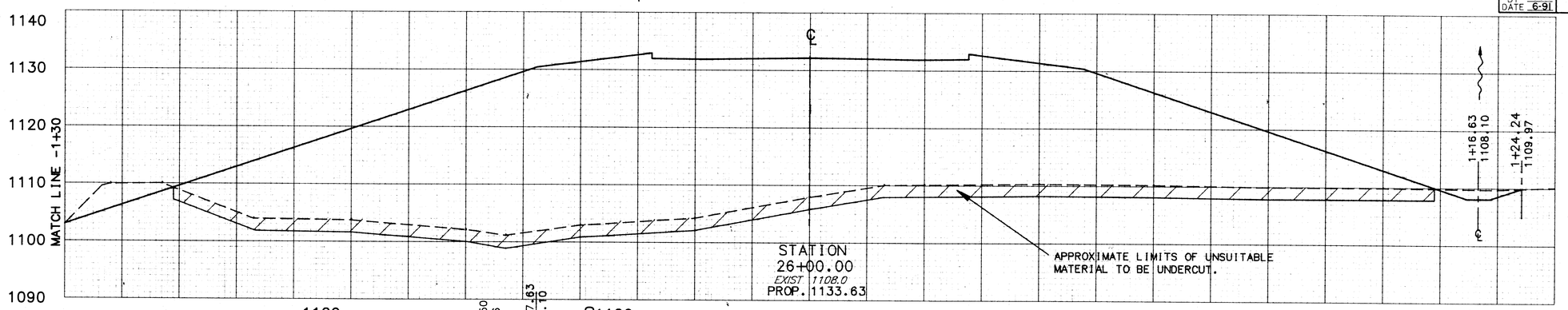
241423

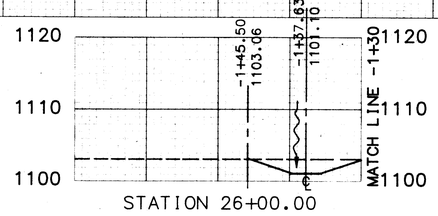
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

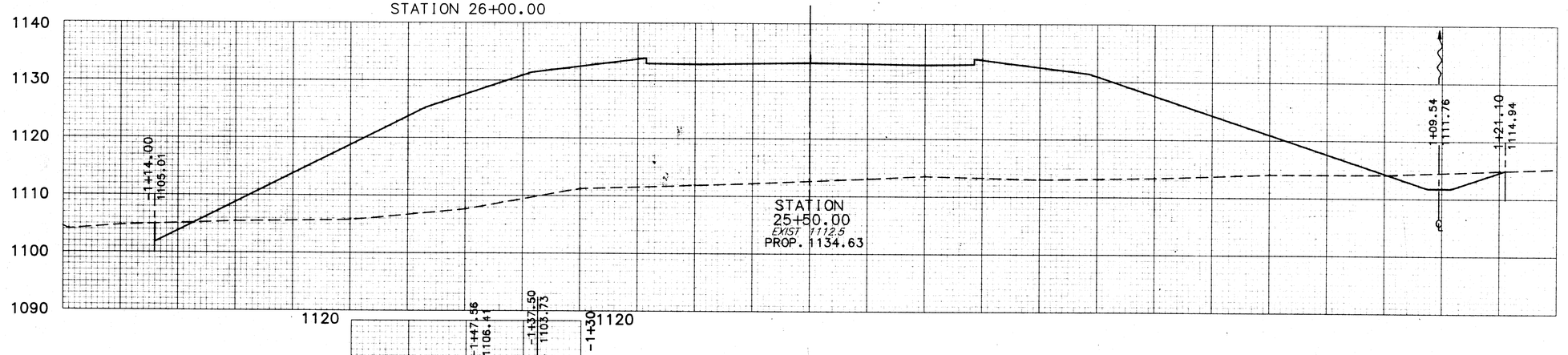
STA. - 241 - 4.22

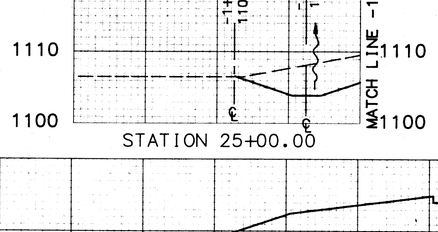
OHIO
FHWA REGION 5

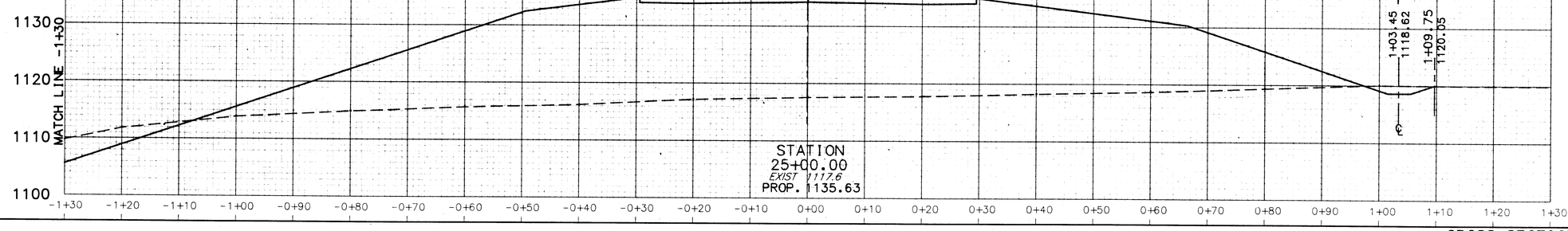
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303











END AREA		VOLUME	
CUT	FILL	CUT	FILL
248	3986		
		272	6650
46	3195		
		159	5250
125	2475		
		206	4054

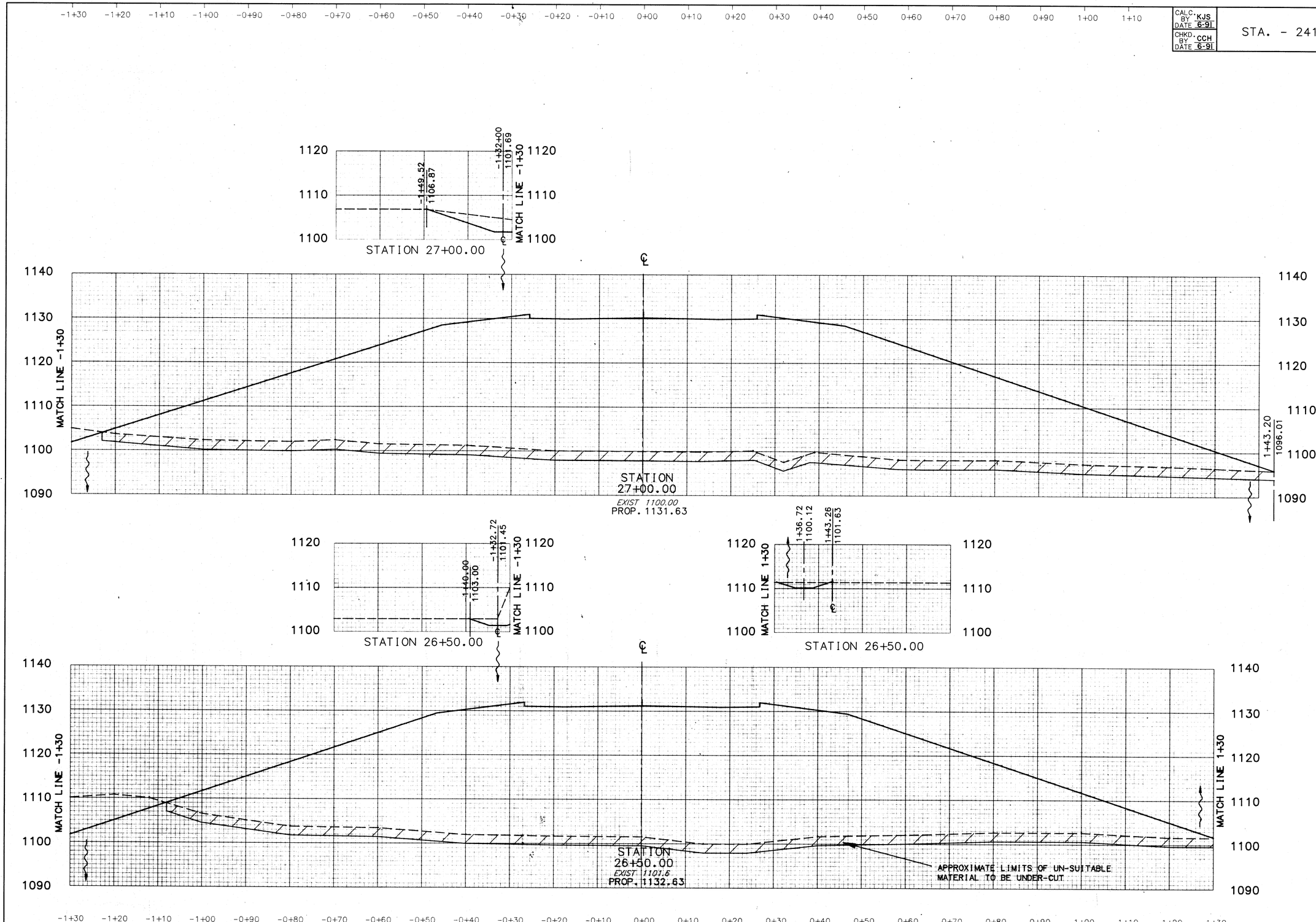
STATE ROUTE 241

241XZ4

CROSS SECTION STA. 25+00 TO STA. 26+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		84	9525
57	5238		
		284	9269
250	4772		
		461	8110

241XZ5

STATE ROUTE 241

CROSS SECTION STA. 26+50 TO STA. 27+00

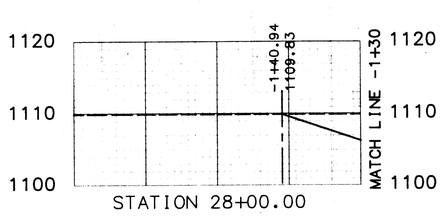
-1+30 -1+20 -1+10 -1+00 -0+ -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

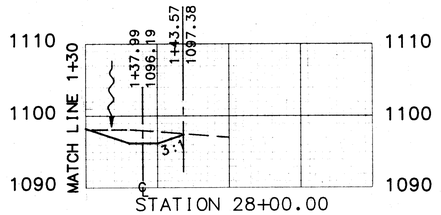
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CHKD. BY CCH DATE 6-91

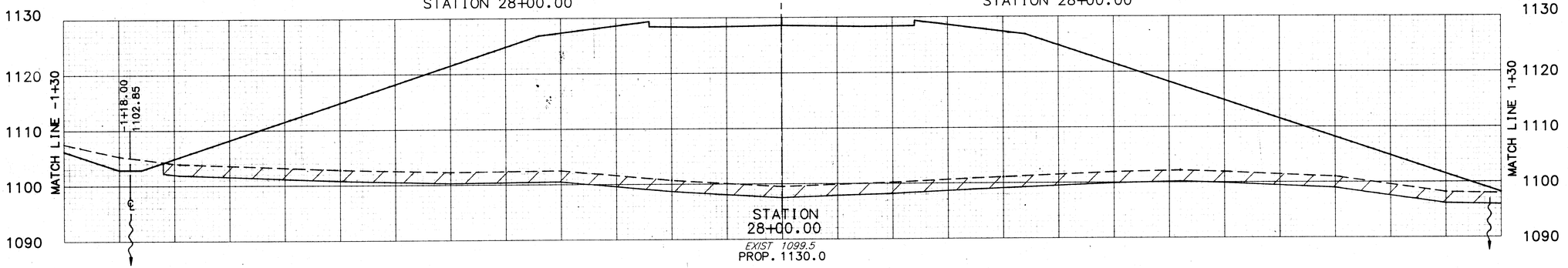
STA. - 241 - 4.22

OHIO
FHWA REGION 5

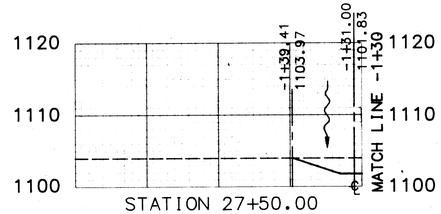
86
303

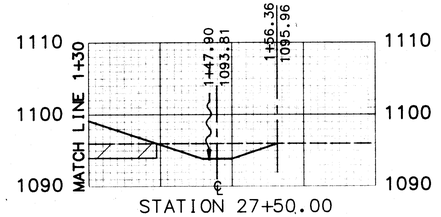


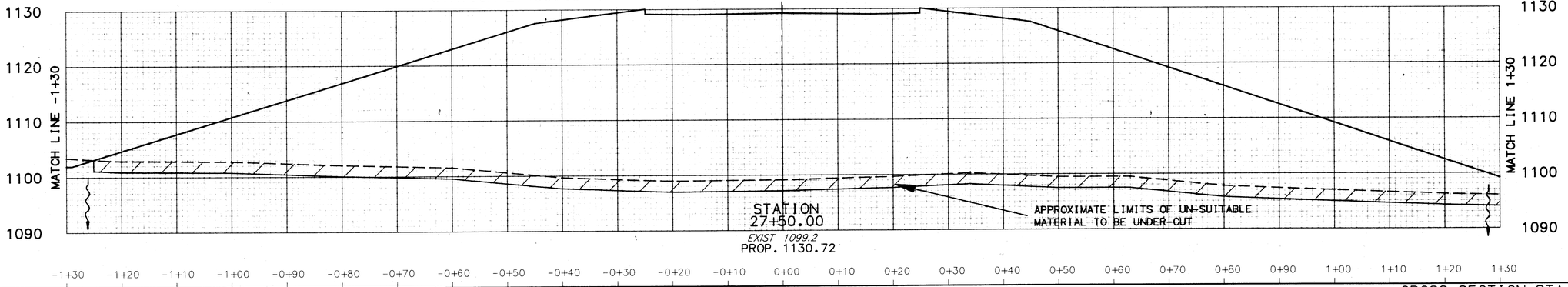




END AREA		VOLUME	
CUT	FILL	CUT	FILL
		90	7001
53	4295		
		81	8652
34	5049		







-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

CROSS SECTION STA. 27+50 TO STA. 28+00

STATE ROUTE 241

241X26

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO	87/303
CHKD. BY CCH DATE 6-91		FHWA REGION 5	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
98	2100		
		140	4323
52	2569		
		84	5404
43	3267		

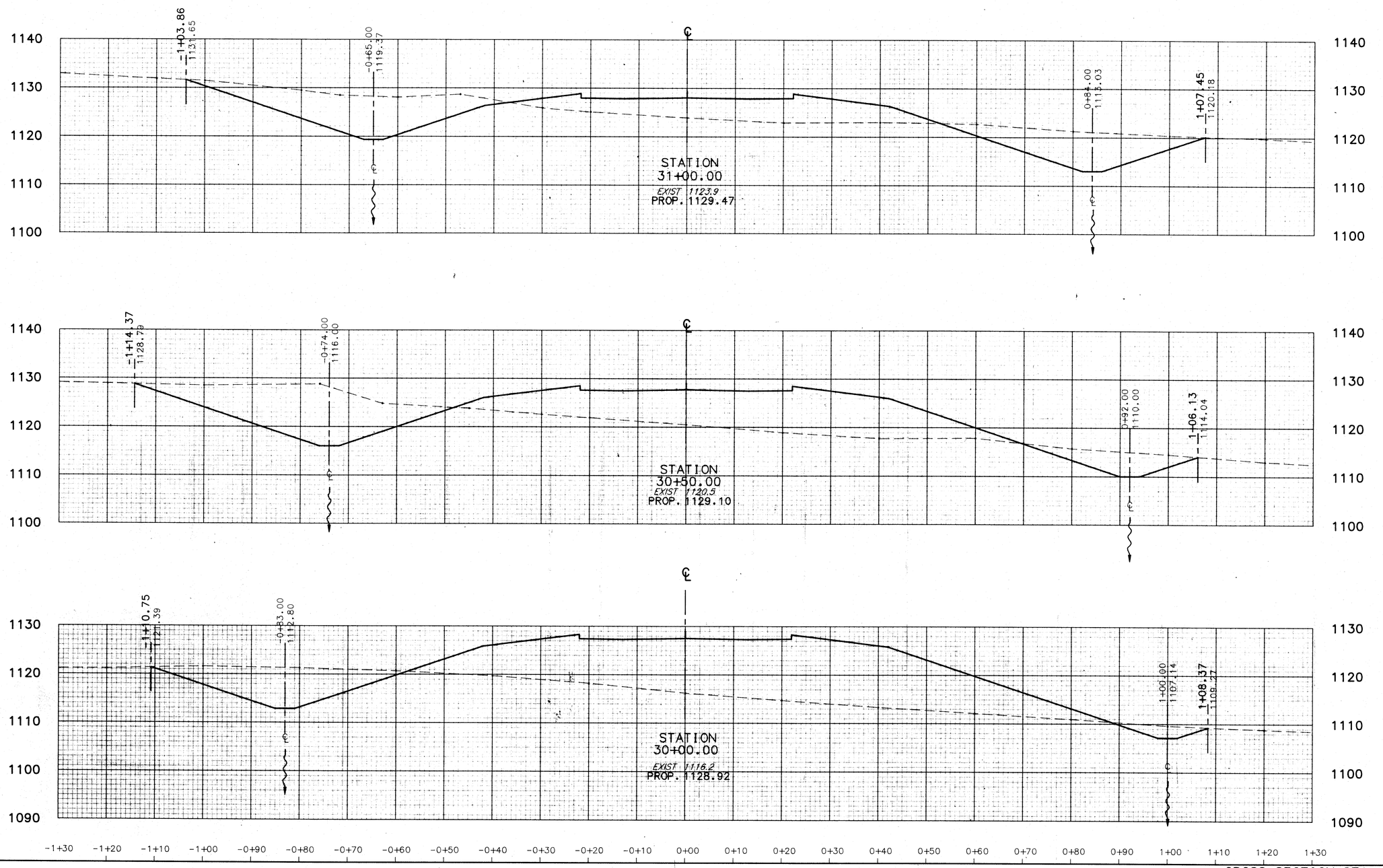
241XZ7

CROSS SECTION STA. 28+50 TO STA. 29+50

STATE ROUTE 241

CALC. BY KJS DATE 6-9	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-9		FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		11,24	371
562	314		
		992	934
510	695		
		729	1798
277	1247		
		348	3099

241XZB

STATE ROUTE 241

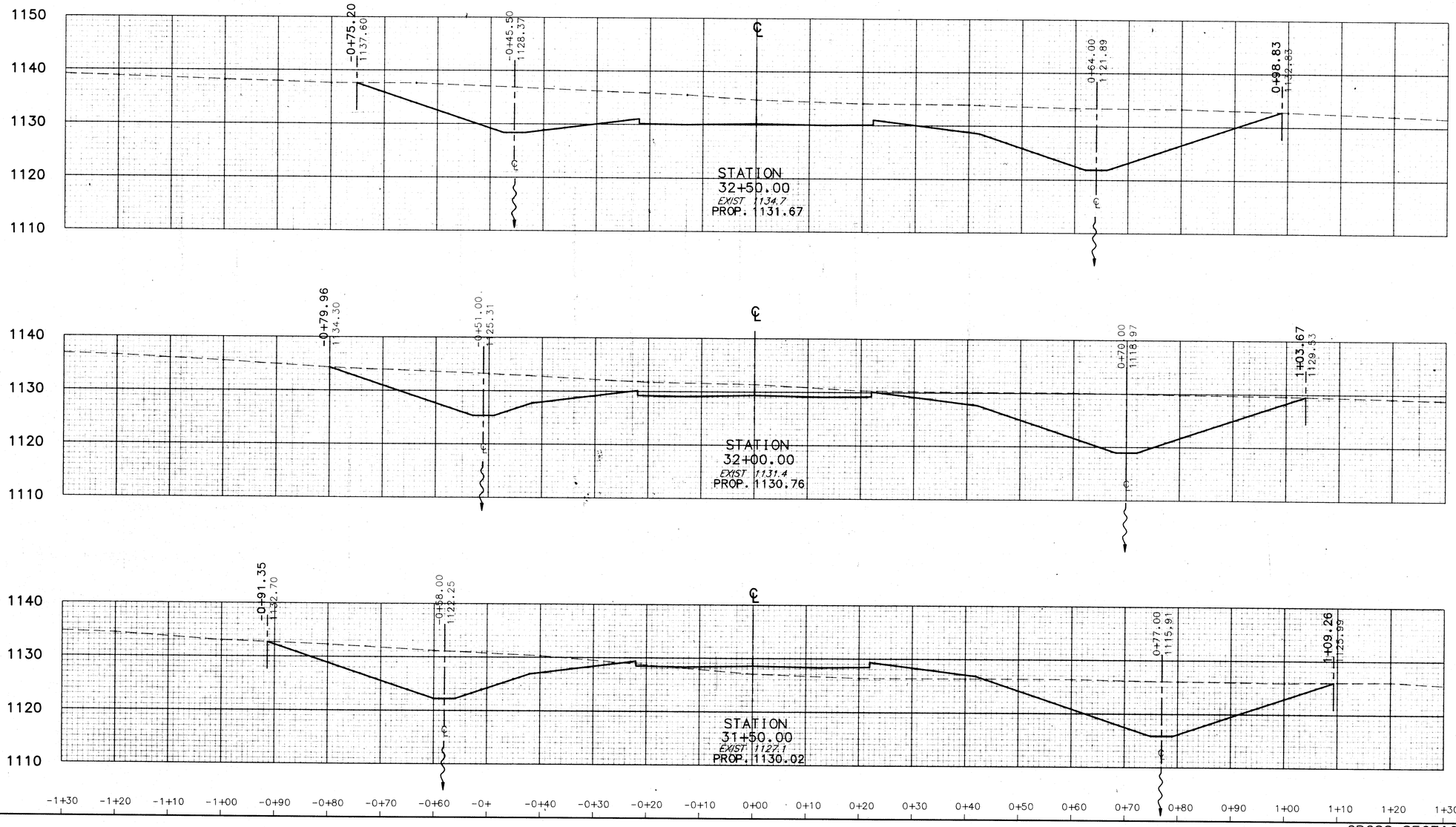
CROSS SECTION STA. 30+00 TO STA. 31+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2215	0
998	0		
		1628	0
760	0		
		1308	80
653	87		

241XZ9

STATE ROUTE 241

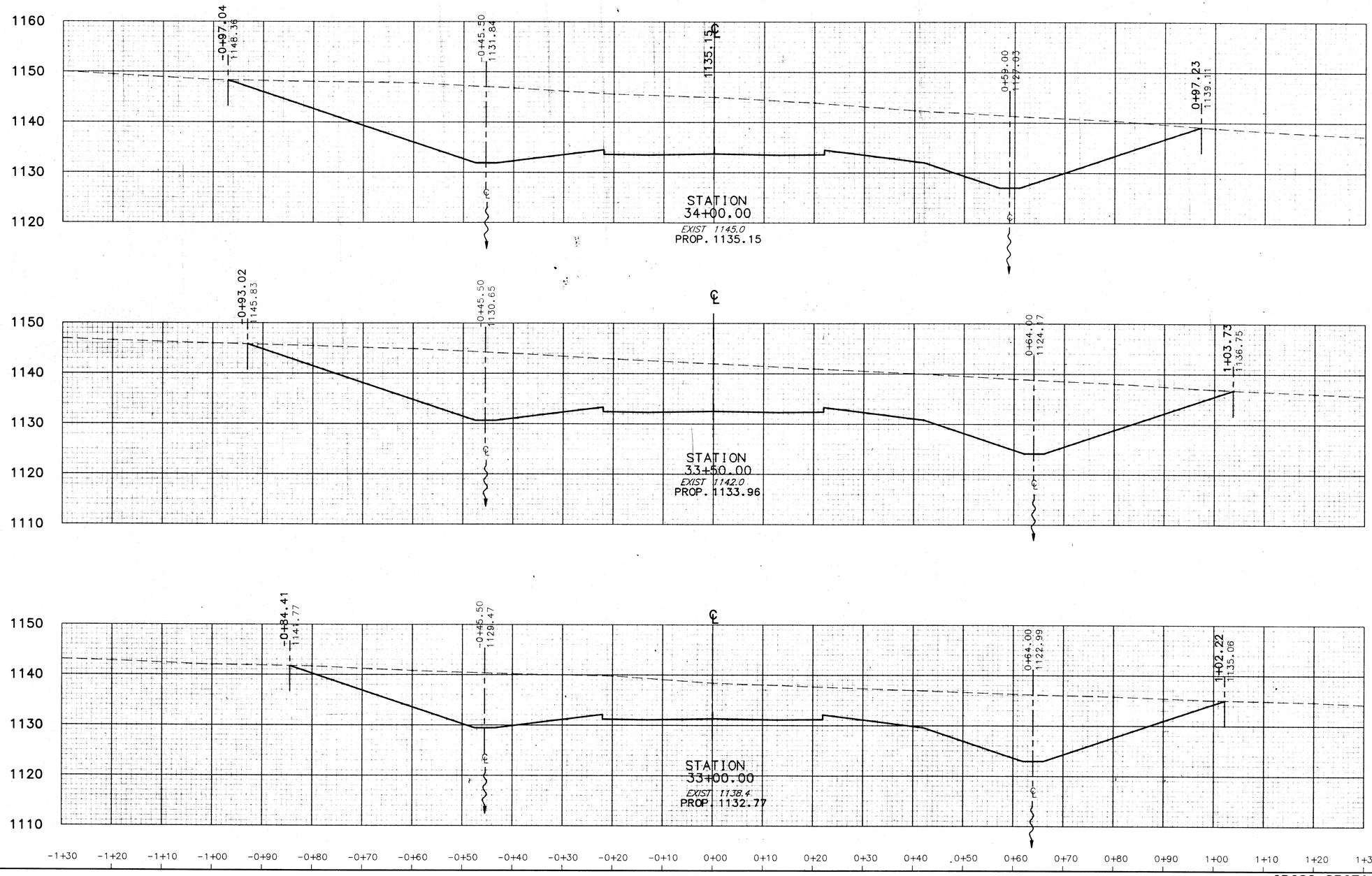
CROSS SECTION STA. 31+50 TO STA. 32+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3862	0
1928	0		
		3434	0
1781	0		
		2940	0
1394	0		

241X210

STATE ROUTE 241

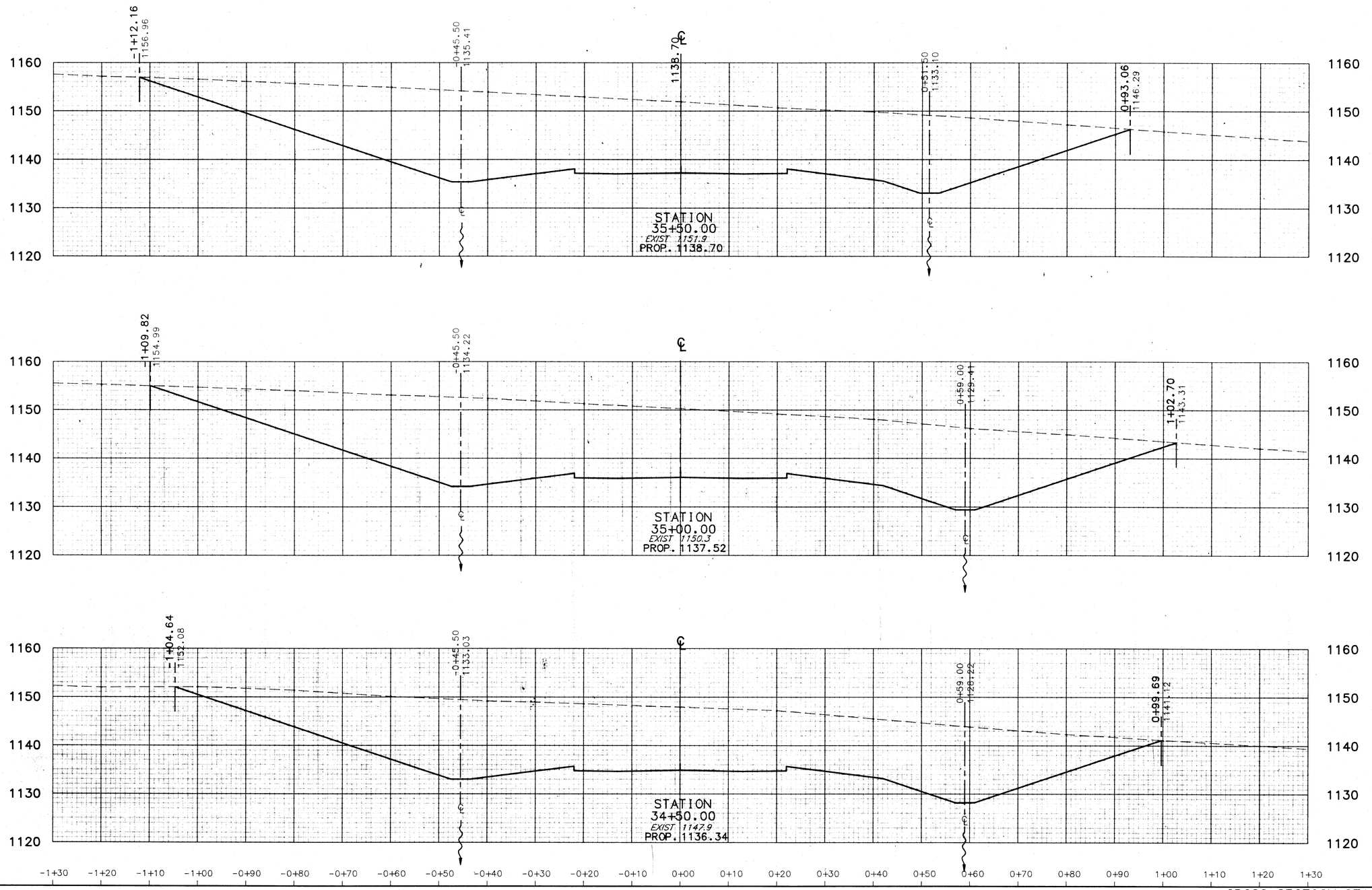
CROSS SECTION STA. 33+00 TO STA. 34+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4709	0
2456	0		
		4624	0
2538	0		
		4427	0
2243	0		

241XW1

STATE ROUTE 241

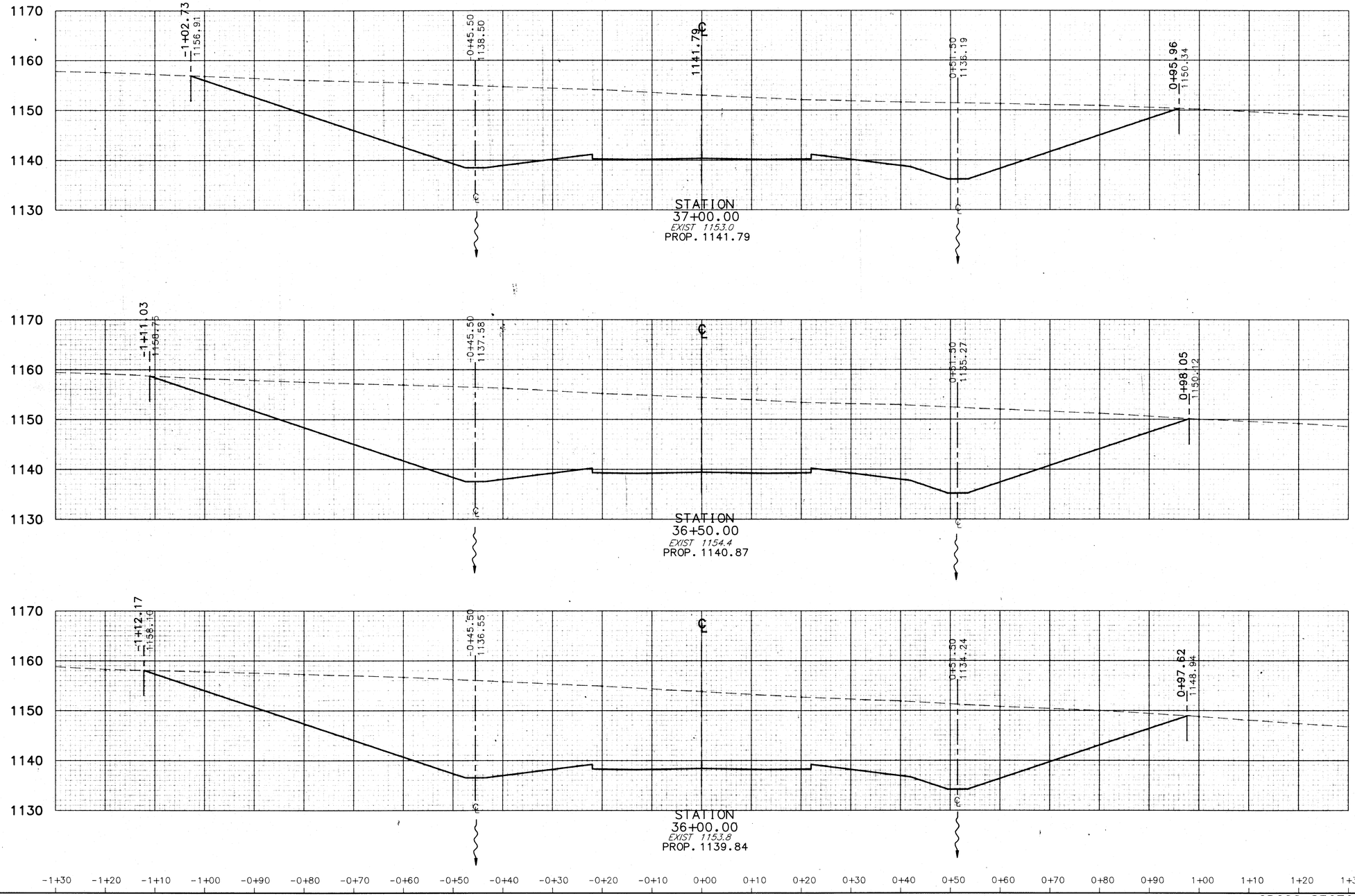
CROSS SECTION STA. 34+50 TO STA. 35+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
2129	0		
		4333	0
2551	0		
		4796	0
2629	0		

241XW2

STATE ROUTE 241

CROSS SECTION STA. 36+00 TO STA. 37+00

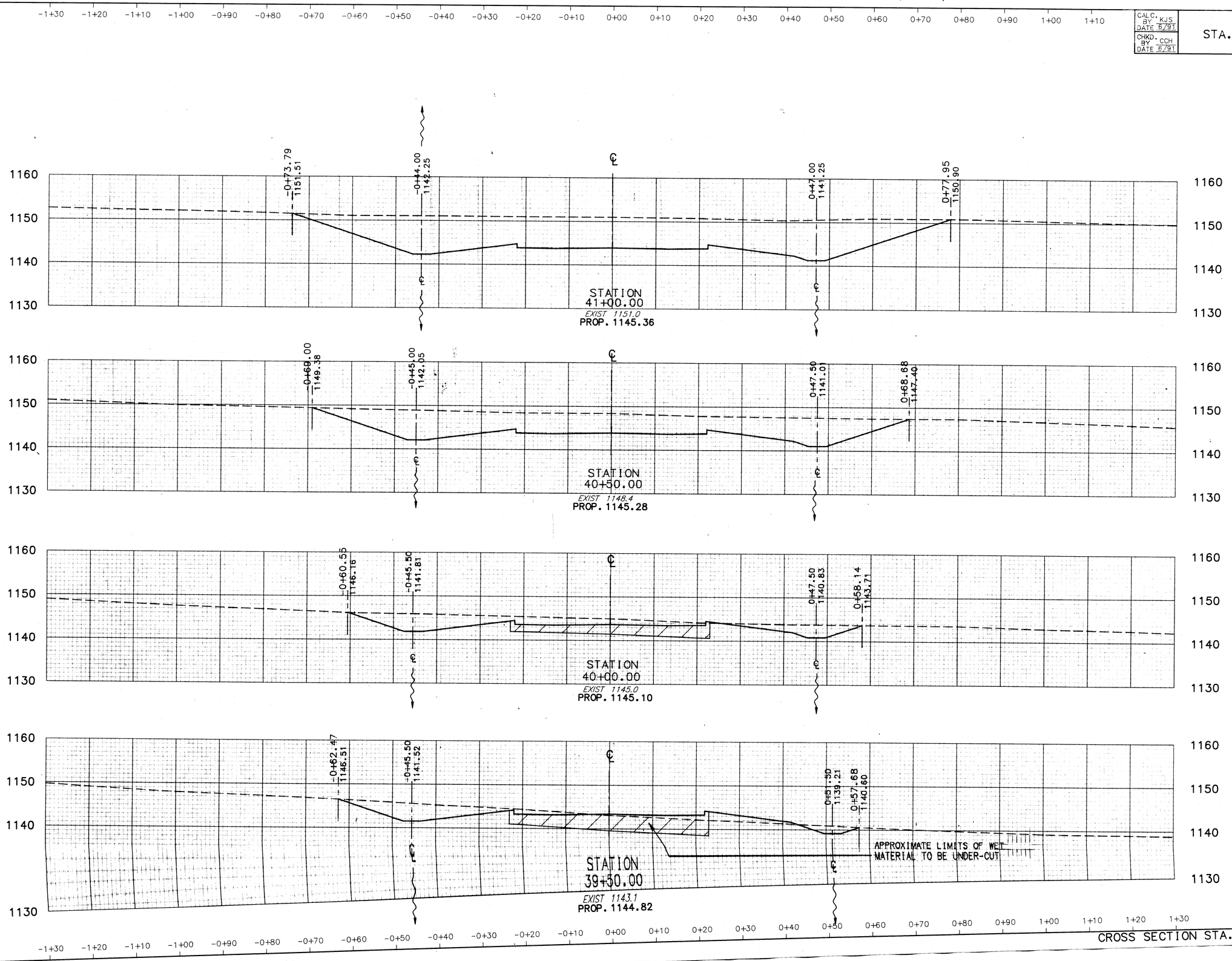
END AREA		VOLUME	
CUT	FILL	CUT	FILL
364	0		
		976	0
690	0		
		1593	0
1031	0		
		2399	0
1560	0		
		3415	0

241XS3

STATE ROUTE 241

CROSS SECTION STA. 37+50 TO STA. 39+00

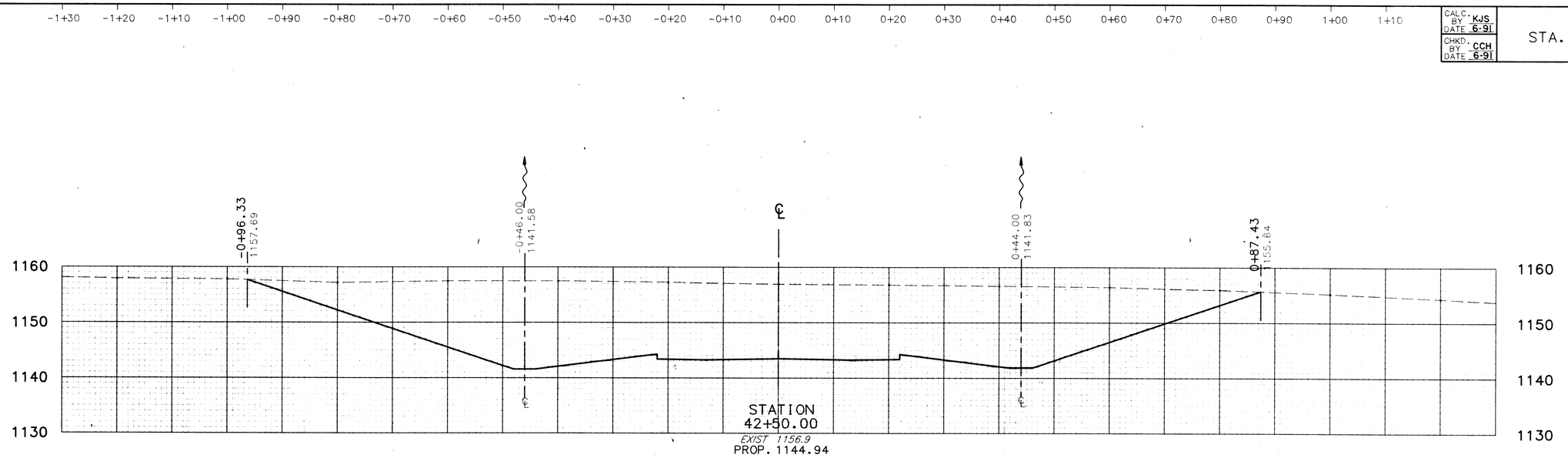
CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO	94/303
CHKD. CCH BY DATE 6/91		FHWA REGION 5	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
964	0		
		1454	0
607	0		
		750	1
204	1		
		300	38
122	41		
		449	38

CROSS SECTION STA. 39+50 TO STA. 41+00

STATE ROUTE 241



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3927	0
1996	0		
		3450	0
1730	0		
		2919	0
1423	0		
		2210	0

STATE ROUTE 241

241XW5

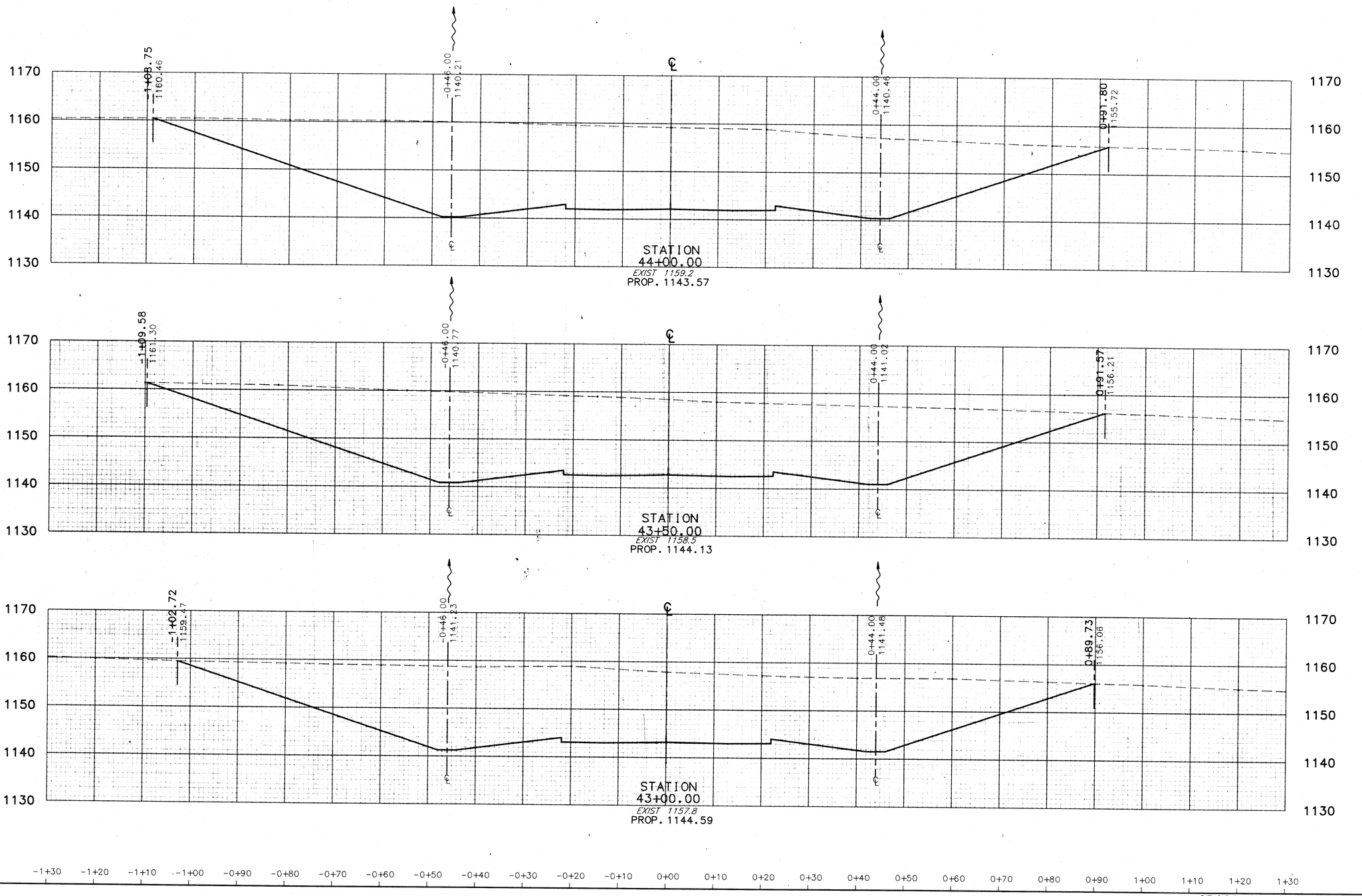
CROSS SECTION STA. 41+50 TO STA. 42+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4916	0
2616	0		
		4732	0
2495	0		
		4389	0
2246	0		

STATE ROUTE 241

241XWG

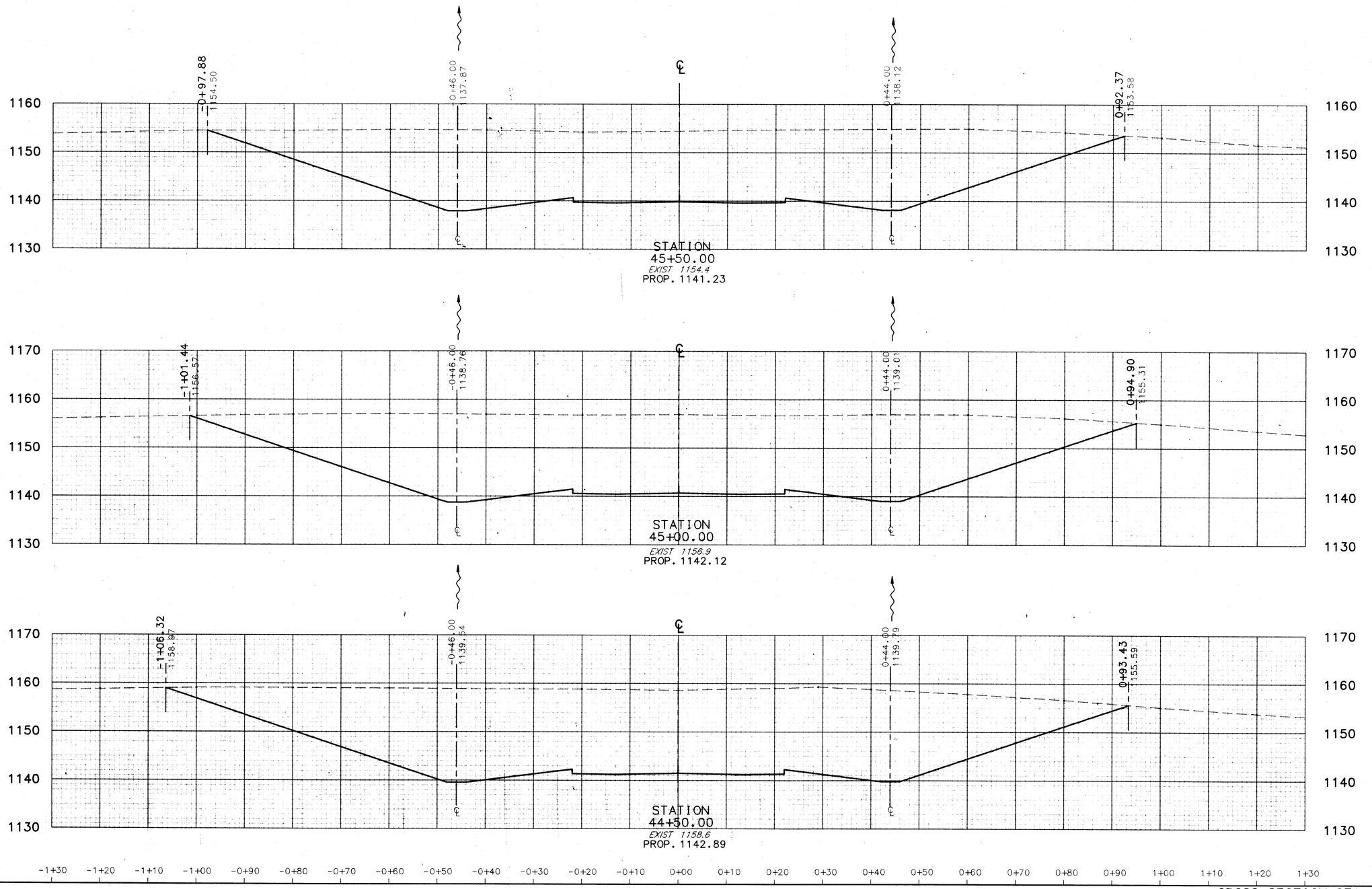
CROSS SECTION STA. 43+00 TO STA. 44+00

CALC. BY KJS DATE 6-9I
CHKD. BY CCH DATE 6-9I

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OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3984	0
2243	0		
		4397	0
2505	0		
		4814	0
2694	0		

STATE ROUTE 241

241XW7

CROSS SECTION STA. 44+50 TO STA. 45+50

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO	98/303
CHKD. BY CCH DATE 6-91		FHWA REGION 5	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3433	0
1922	0		
		3615	0
1983	0		
		3743	0
2059	0		

STATE ROUTE 241

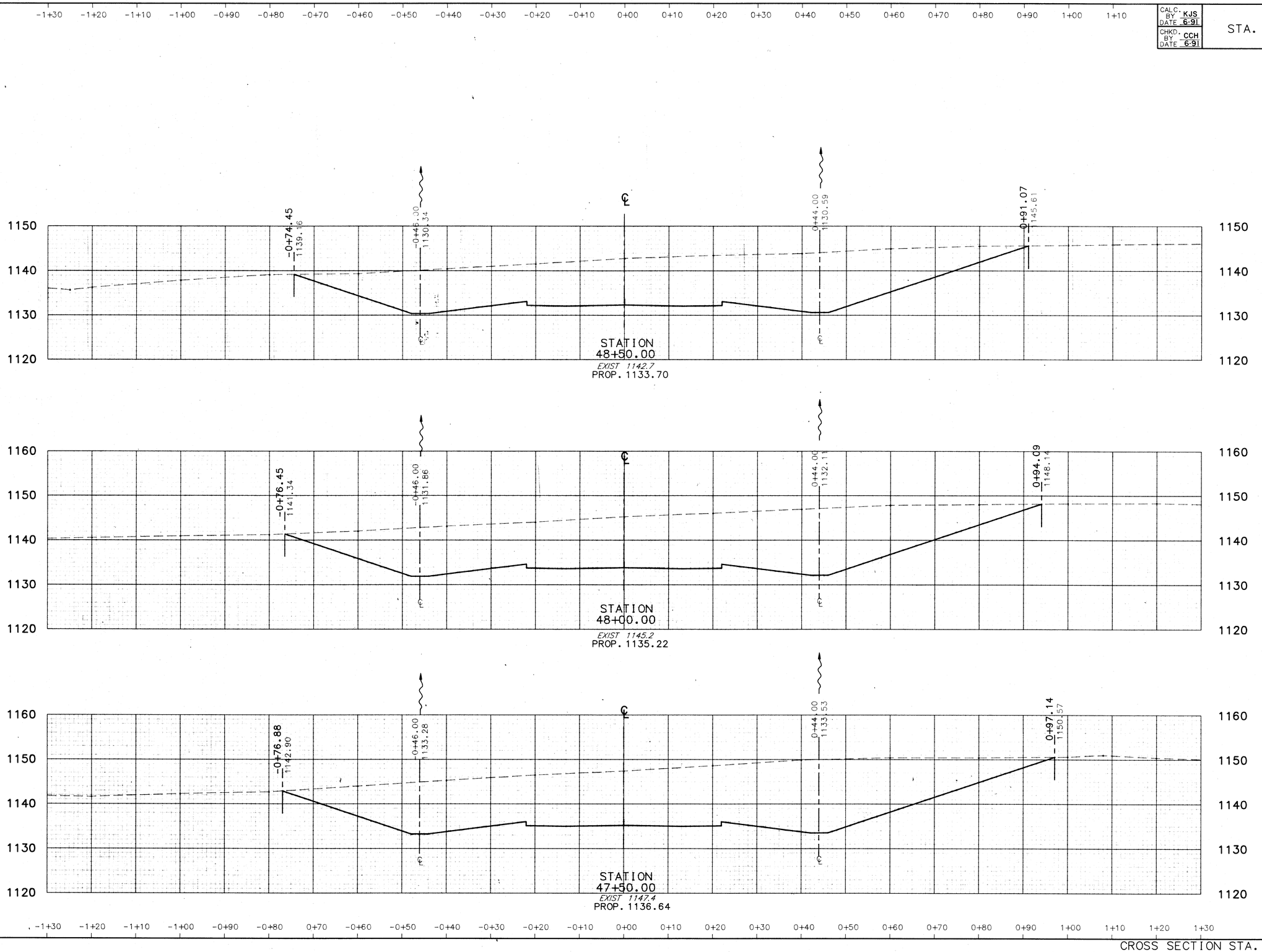
CROSS SECTION STA. 46+00 TO STA. 47+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2536	0
1425	0		
		2816	0
1617	0		
		3150	0
1786	0		

241XW9

STATE ROUTE 241

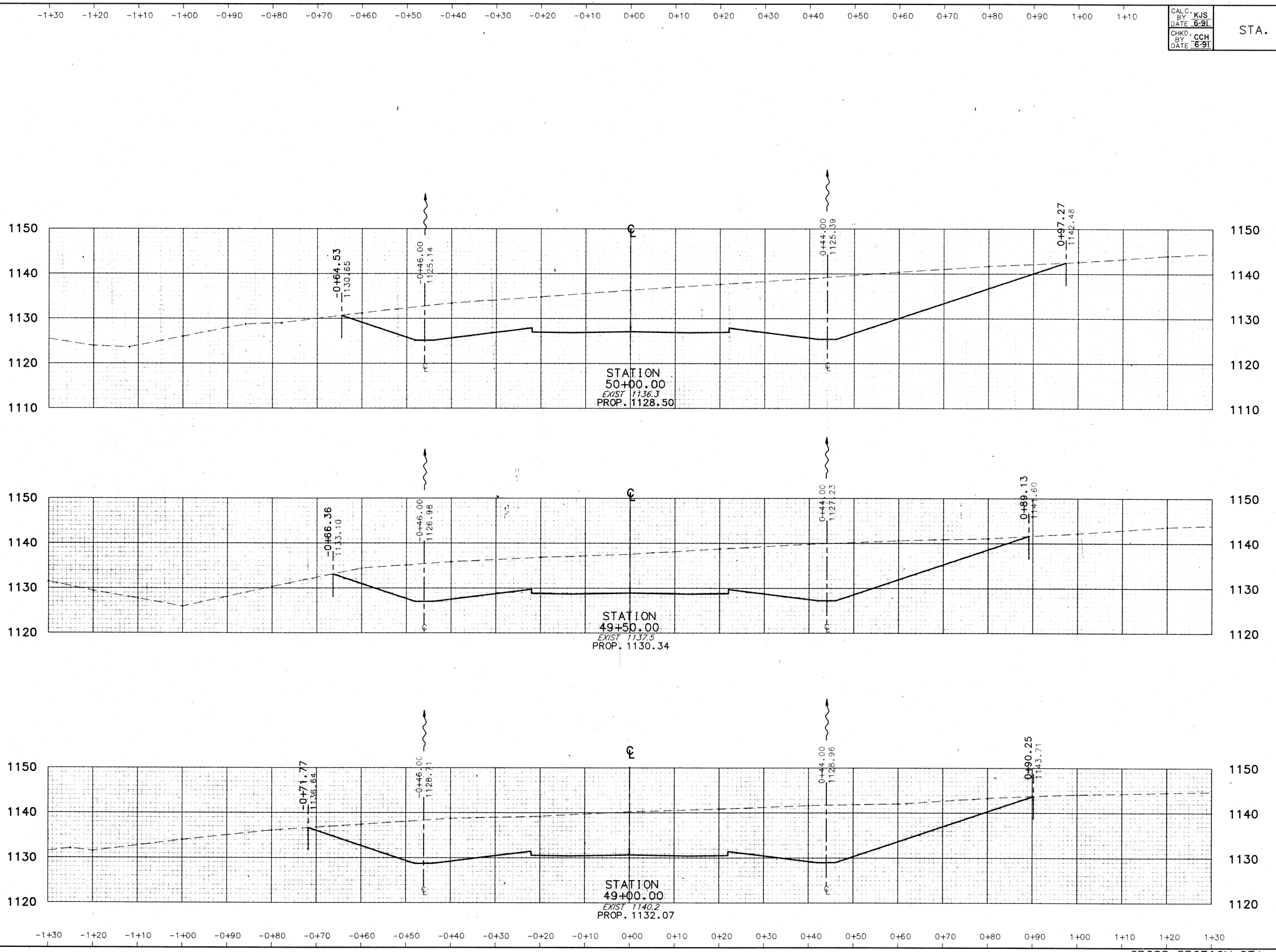
CROSS SECTION STA. 47+50 TO STA. 48+50

CALC. BY KJS DATE 6-9I
CHKD. BY CCH DATE 6-9I

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OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2819	0
1320	0		
		2350	0
1219	0		
		2346	0
1315	0		

STATE ROUTE 241

241XW10

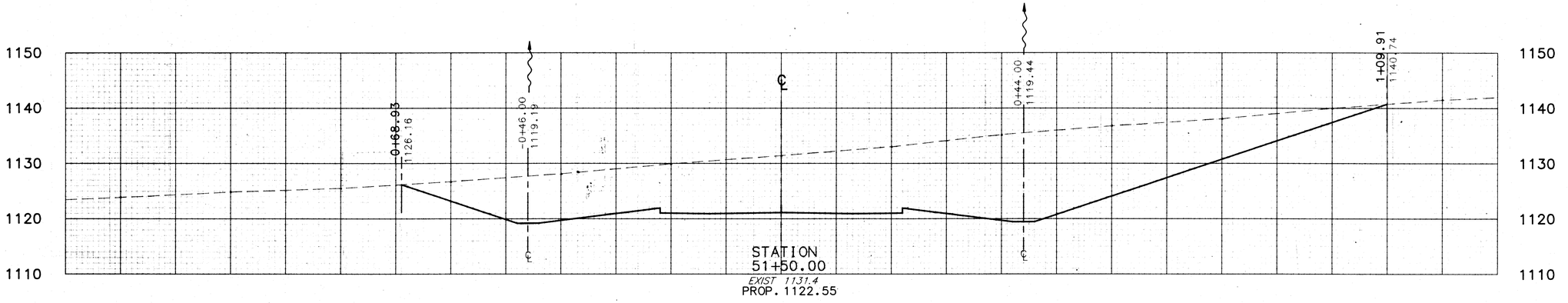
CROSS SECTION STA. 49+00 TO STA. 50+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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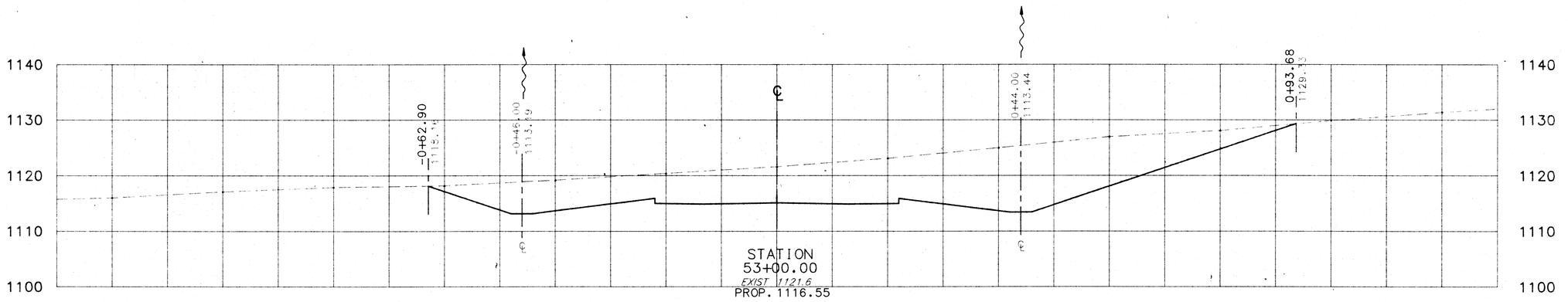
END AREA		VOLUME	
CUT	FILL	CUT	FILL
1611	0		
		3037	0
1669	0		
		3142	0
1725	0		

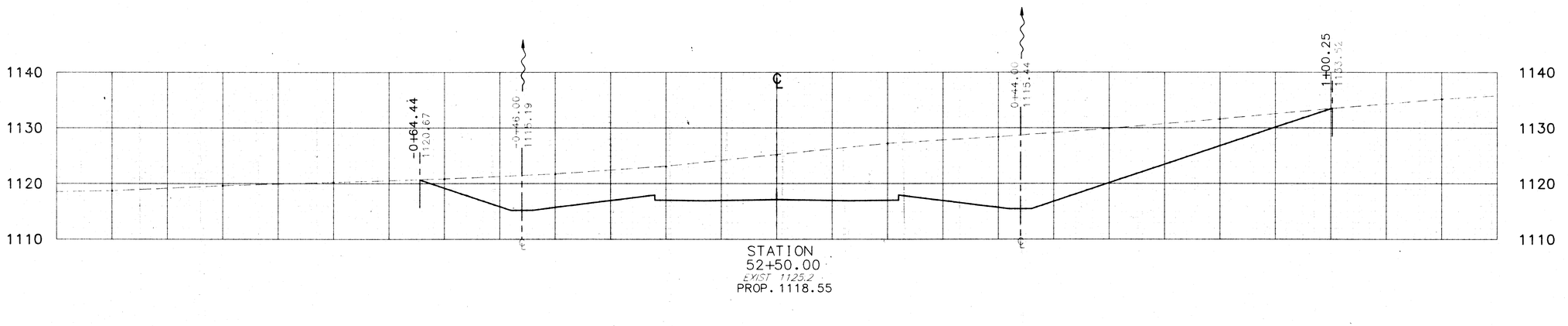
241XVI

STATE ROUTE 241

CROSS SECTION STA. 50+50 TO STA. 51+50

CALC. BY KJS DATE 6-9L	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-9L		FHWA REGION 5



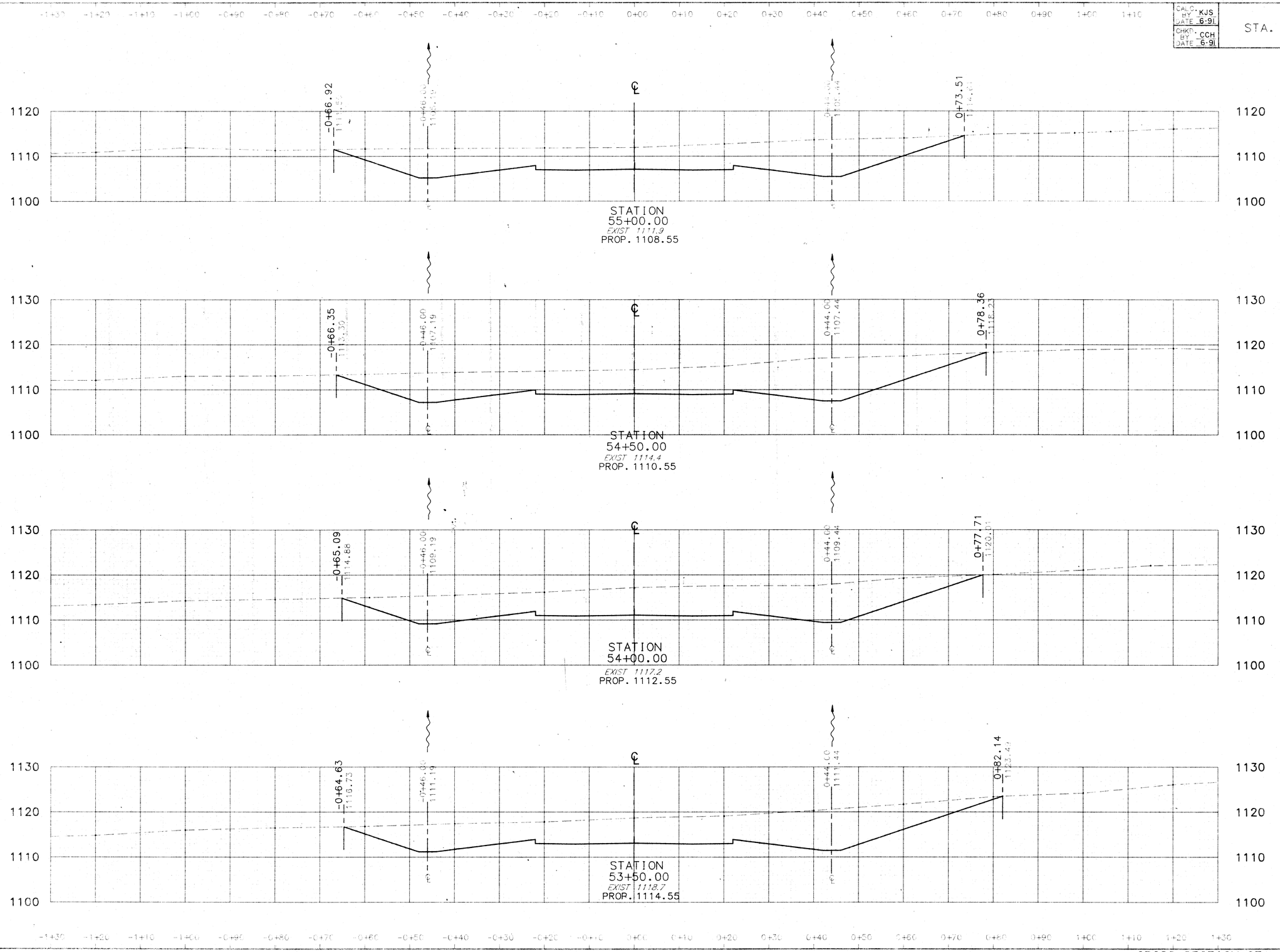


END AREA		VOLUME	
CUT	FILL	CUT	FILL
1001	0		
		2032	0
1195	0		
		2441	0
1442	0		
		2827	0

STATE ROUTE 241

CROSS SECTION STA. 52+00 TO STA. 53+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO	103
CHKD. BY CCH DATE 6-91		FHWA REGION 5	303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
701	0		
		1379	0
789	0		
		1444	0
771	0		
		1431	0
774	0		
		1644	0

STATE ROUTE 241

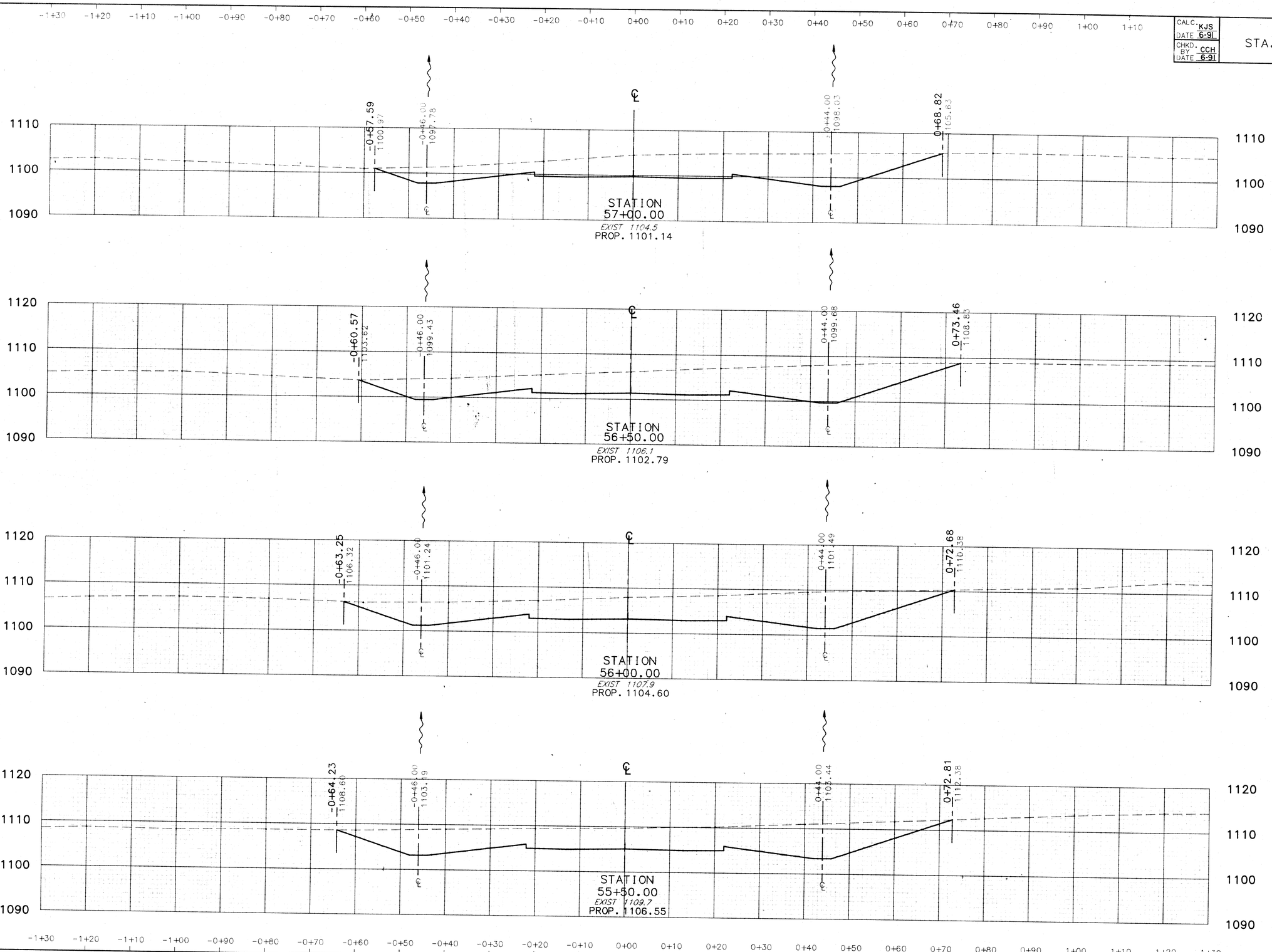
CROSS SECTION STA. 53+50 TO STA. 55+00

CALC. KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
526	0		
		1070	0
630	0		
		1162	0
625	0		
		1165	0
633	0		
		1236	0

241X14

STATE ROUTE 241

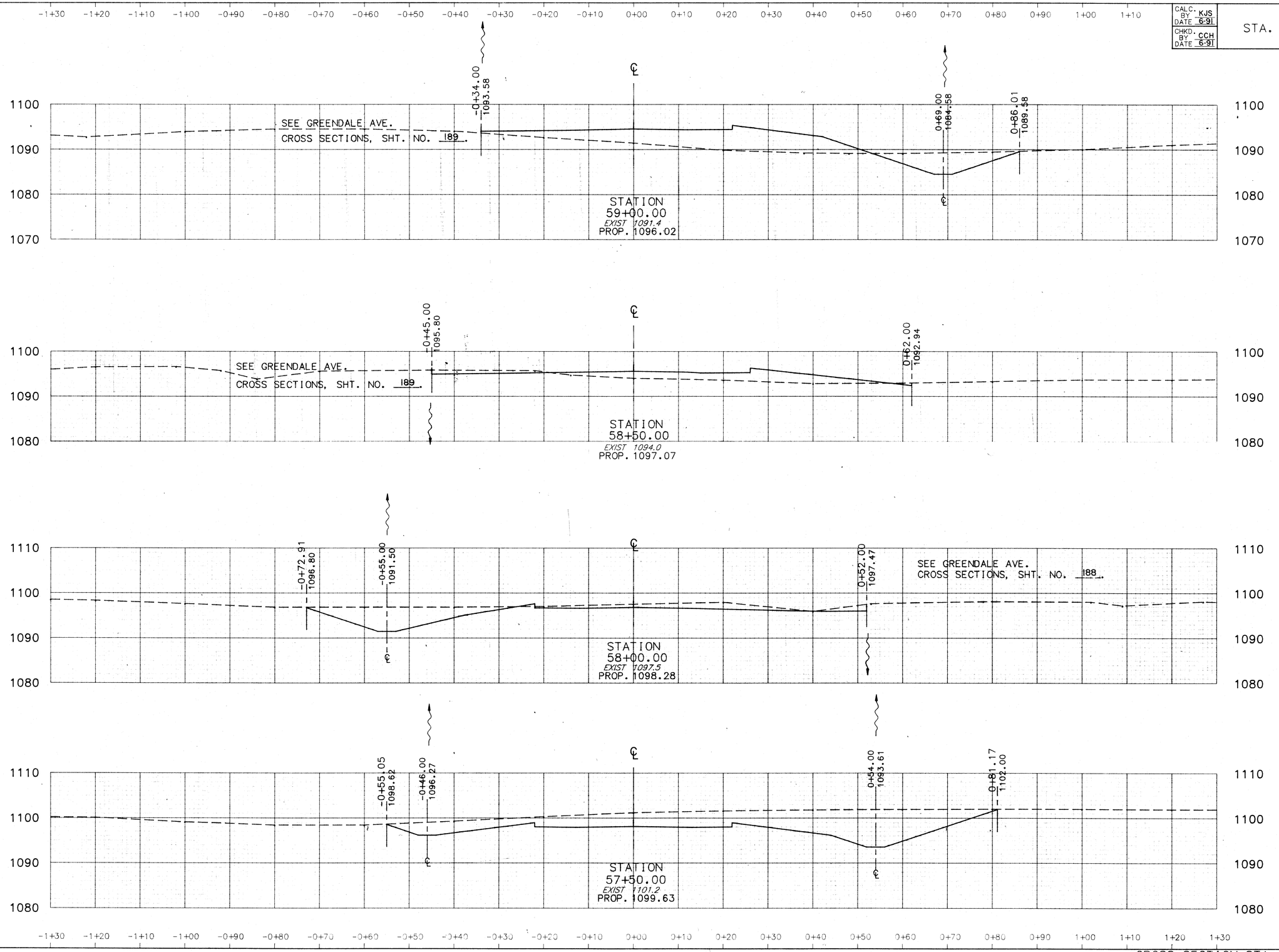
CROSS SECTION STA. 55+50 TO STA. 57+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

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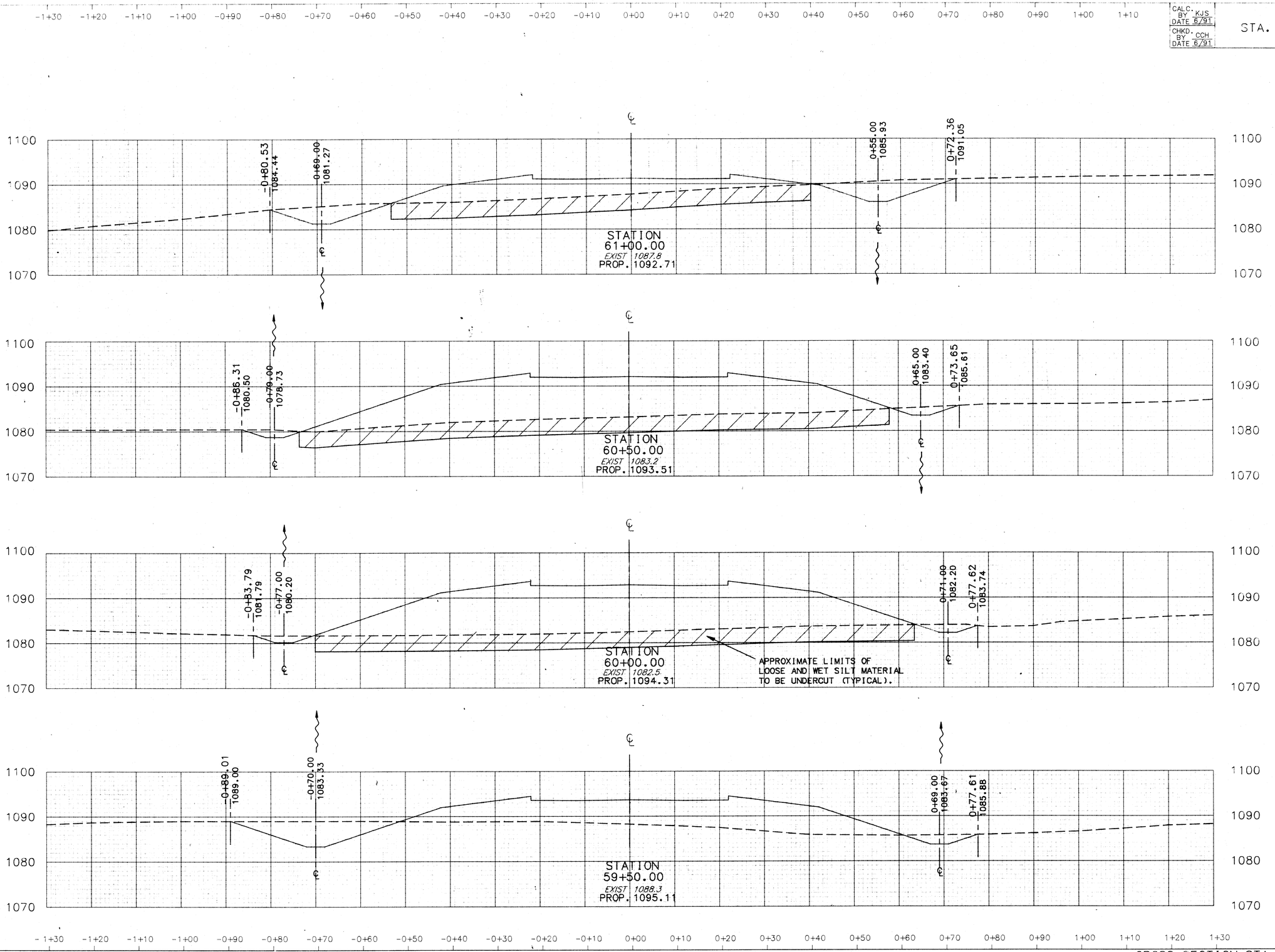


END AREA		VOLUME	
CUT	FILL	CUT	FILL
85	267		
		92	356
16	118		
		167	111
165	3		
		595	2
478	0		
		929	0

241XVS

STATE ROUTE 241

CROSS SECTION STA. 57+50 TO STA. 59+00



END AREA		VOLUME	
CUT	FILL	CUT	FILL
144	284		
		164	1110
33	914		
		57	1826
29	1059		
		157	1470
141	530		
		209	737

STATE ROUTE 241

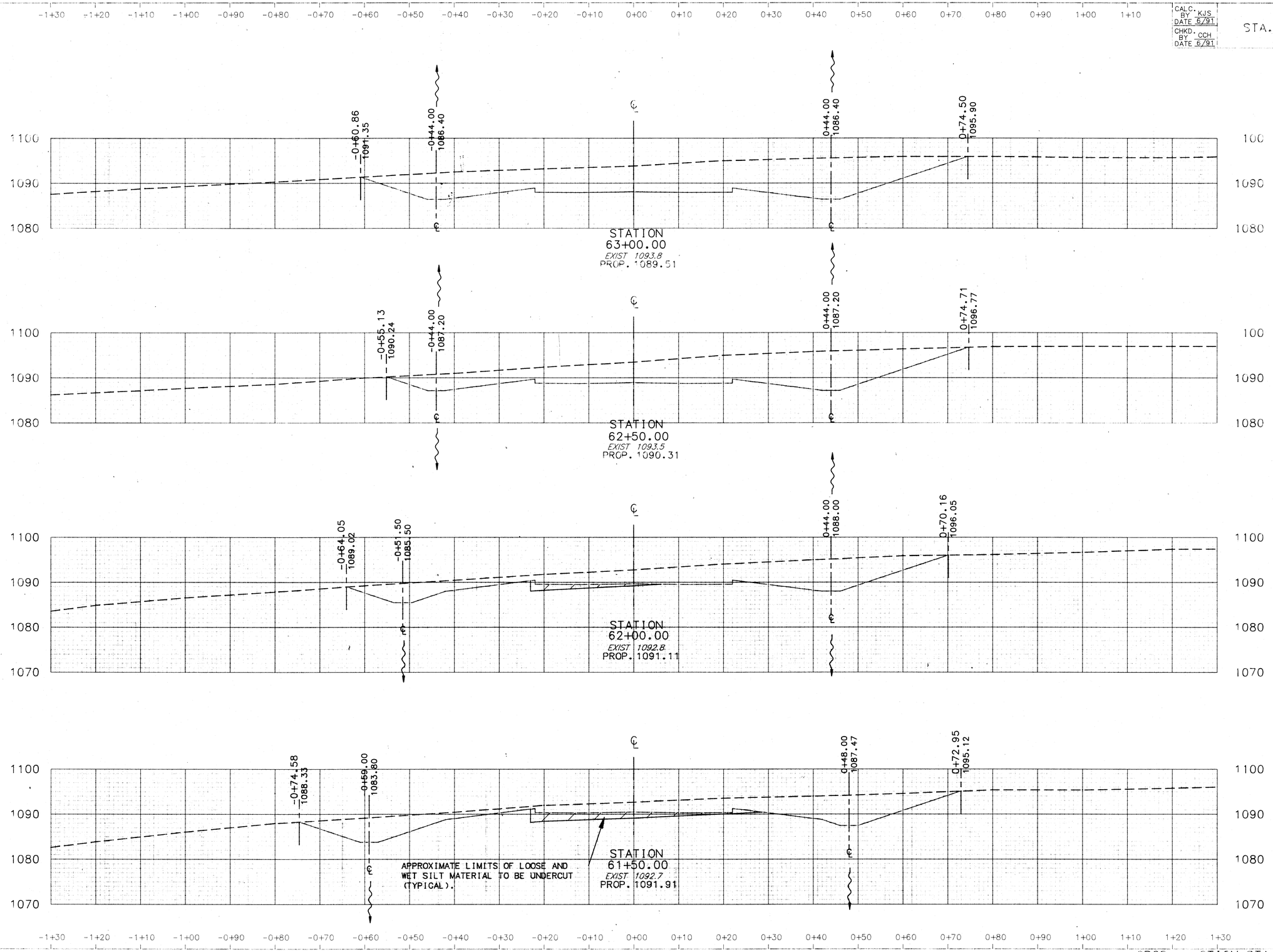
241XV6

CROSS SECTION STA. 59+50 TO STA. 61+00

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
756	0		
		1262	0
608	0		
		1000	0
473	0		
		847	0
442	0		
		543	264

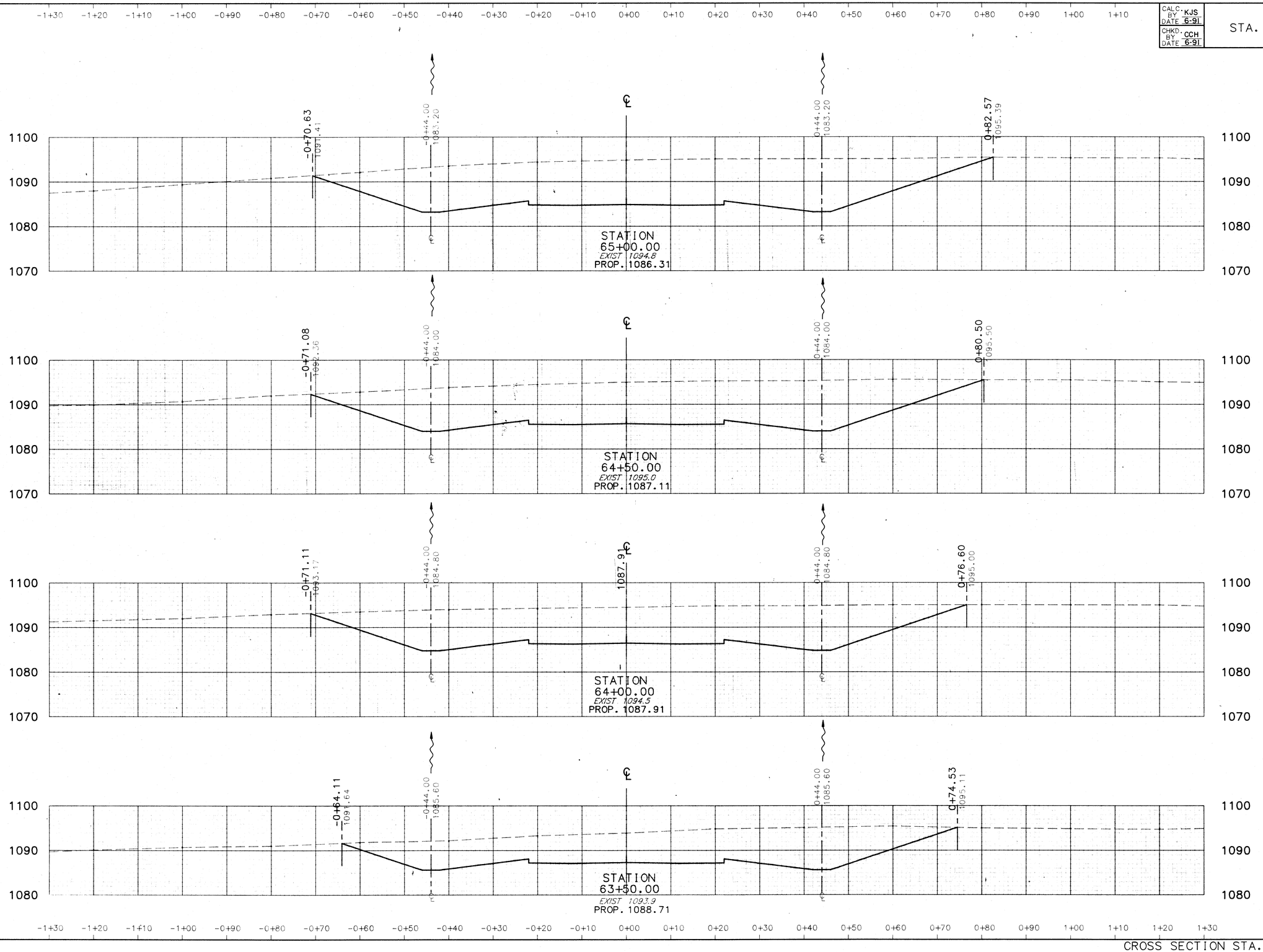
241XV7

CROSS SECTION STA. 61+50 TO STA. 63+00

STATE ROUTE 241

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
1266	0		
		2276	0
1192	0		
		2067	0
1041	0		
		1744	0
843	0		
		1480	0

STATE ROUTE 241

241XV8

CROSS SECTION STA. 63+50 TO STA. 65+00

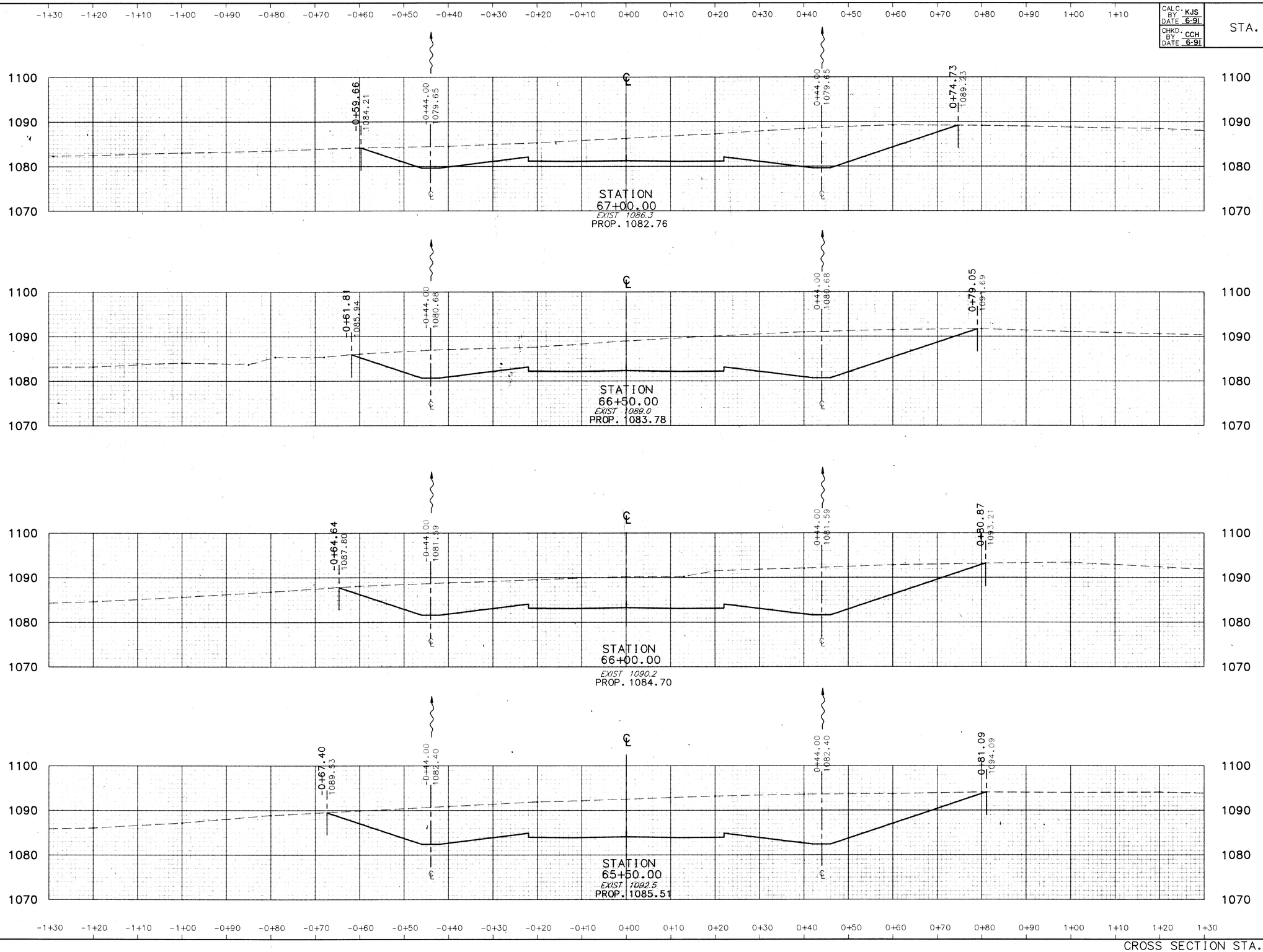
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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OHIO

FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
667	0		
		1419	0
866	0		
		1673	0
941	0		
		1877	0
1086	0		
		2178	0

STATE ROUTE 241

241XV9

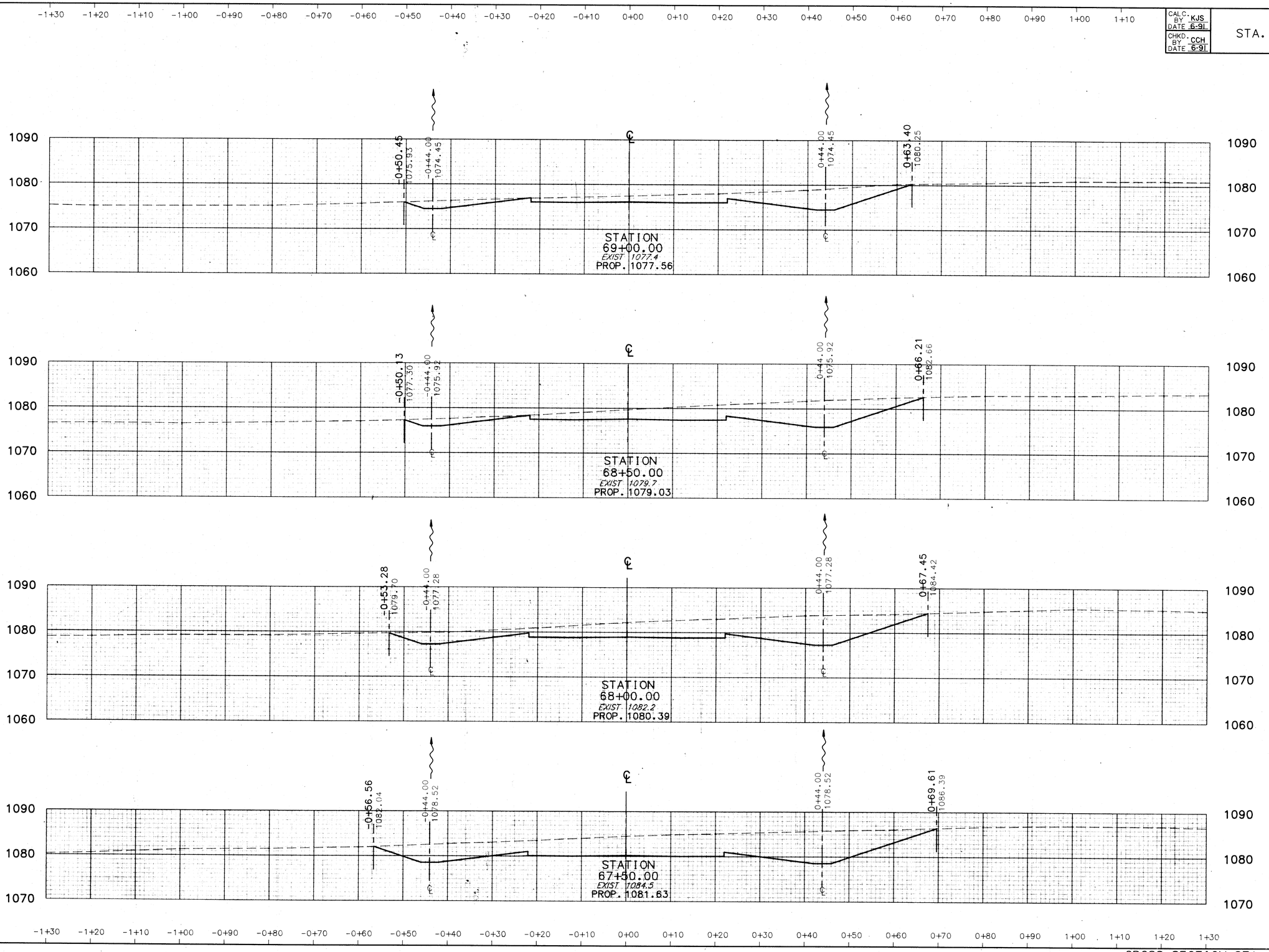
CROSS SECTION STA. 65+50 TO STA. 67+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
206	0		
		459	0
290	0		
		632	0
393	0		
		843	0
518	0		
		1097	0

241XV10

CROSS SECTION STA. 67+50 TO STA. 69+00

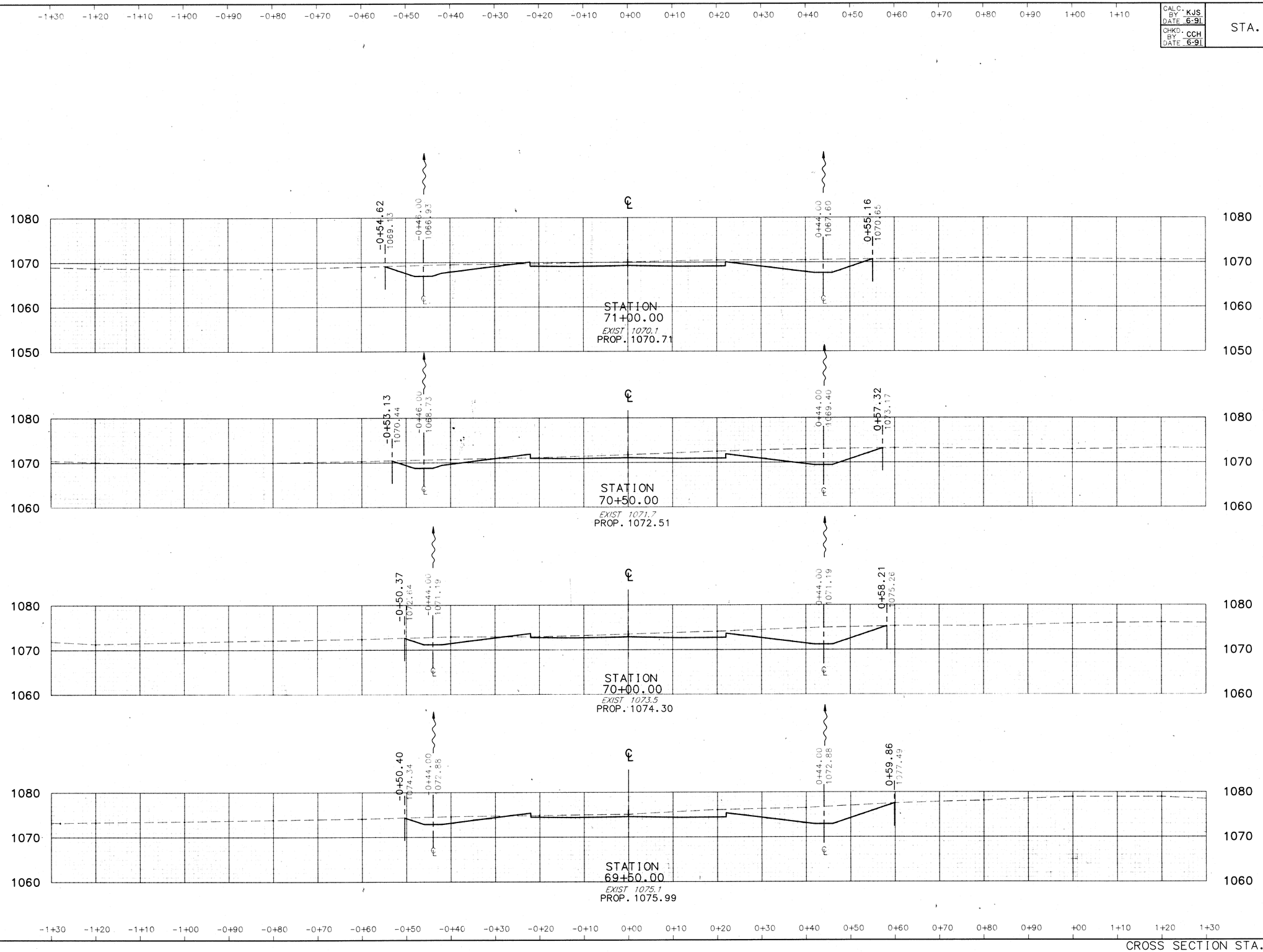
STATE ROUTE 241

CALC. BY KJS DATE 6-9-1
CHKD. BY CCH DATE 6-9-1

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		332	1
136	1		
		252	4
136	4		
		250	6
134	3		
		260	4
147	2		
		327	2

STATE ROUTE 241

241X71

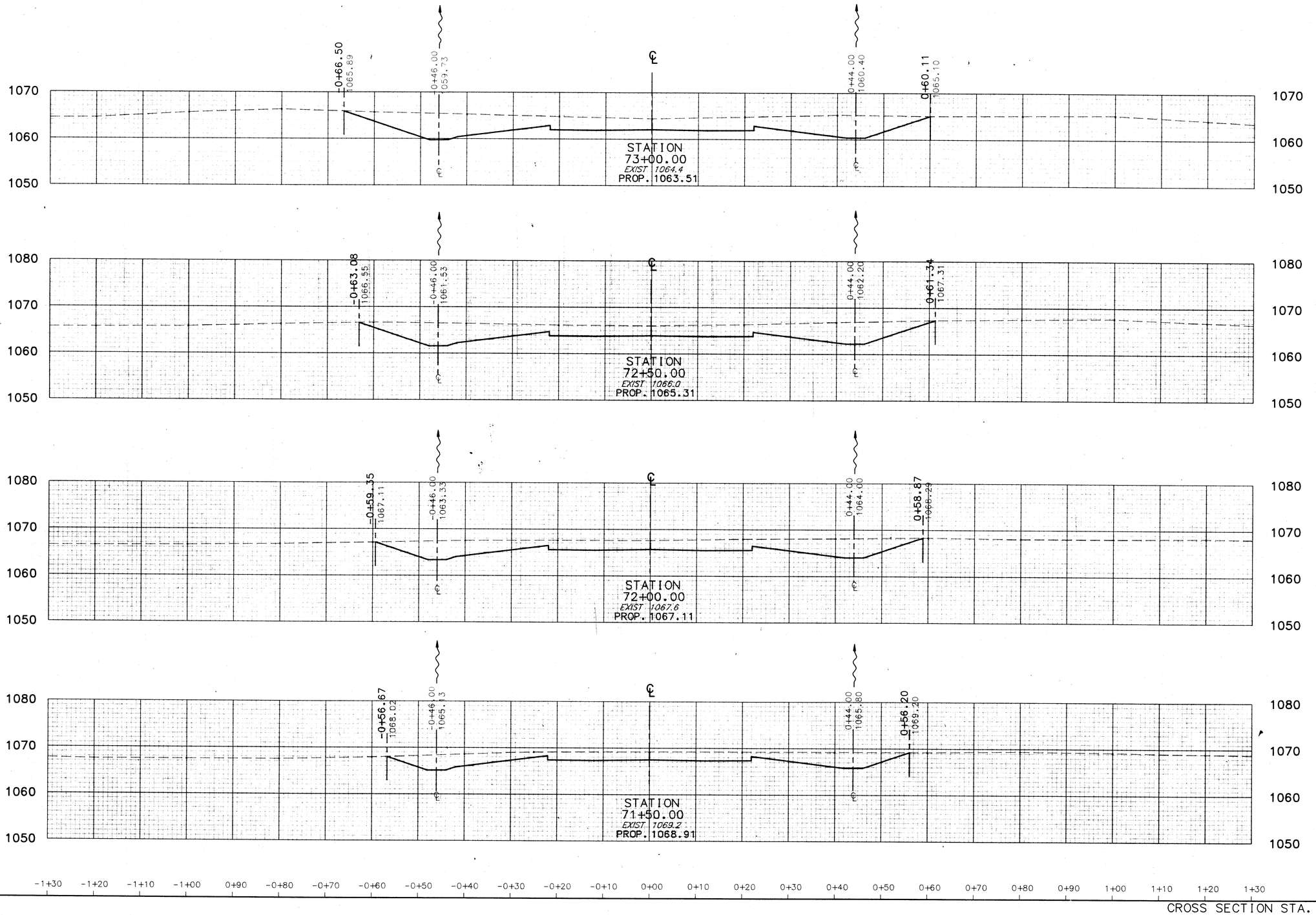
CROSS SECTION STA. 69+50 TO STA. 71+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		718	0
394	0		
		684	0
345	0		
		582	0
284	0		
		469	0
222	0		

STATE ROUTE 241

241XT2

CROSS SECTION STA. 71+50 TO STA. 73+00

CALC. BY KJS DATE 6
CHKD. BY CH DATE 6/91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
168	4		
		331	5
189	2		
		374	2
214	0		
		552	0
382	0		

241XT3

STATE ROUTE 24

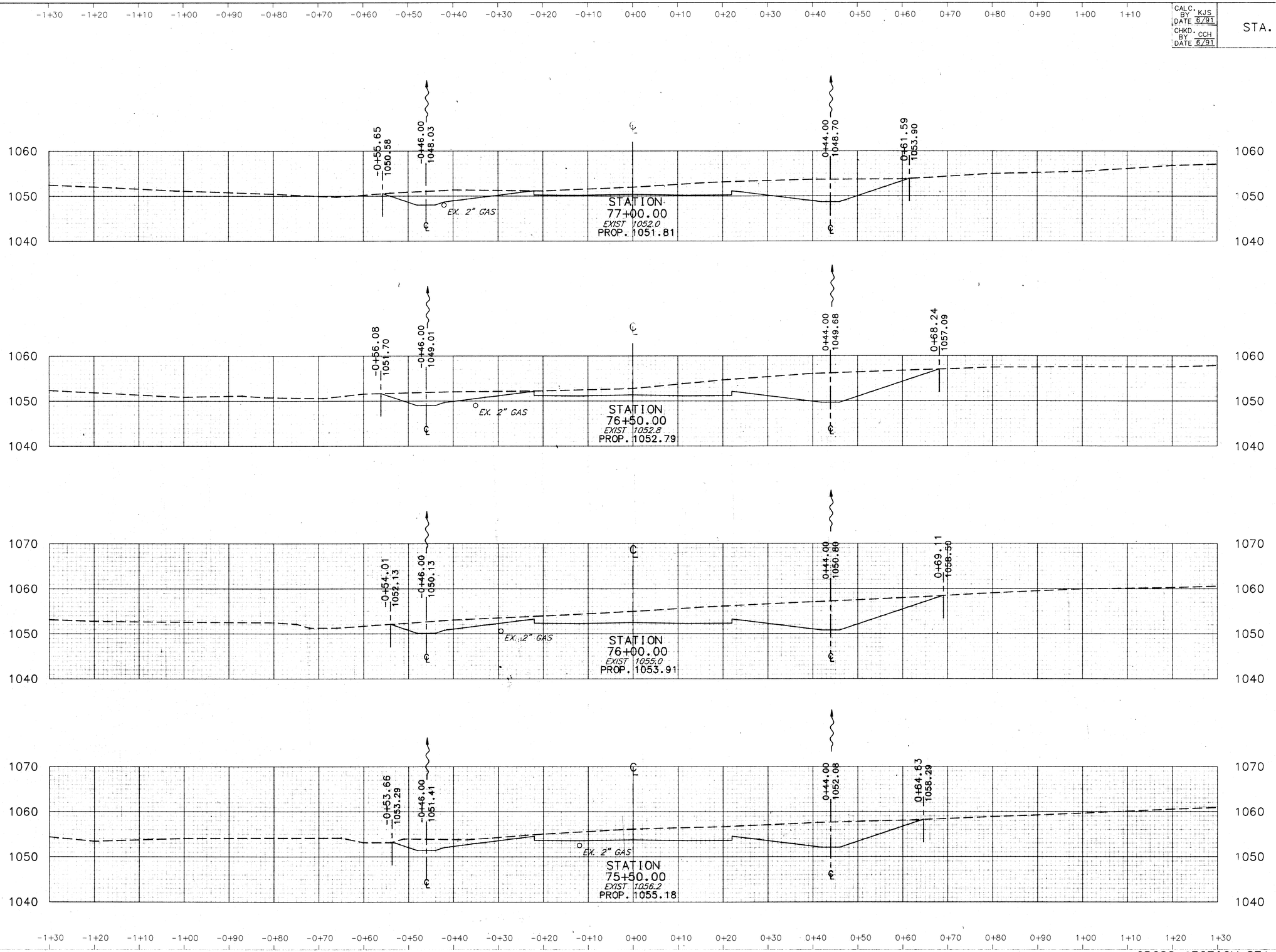
CROSS SECTION STA. 73+50 TO STA. 75+00

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
267	0		
		555	0
331	0		
		644	0
364	0		
		613	0
299	0		
		432	3

STATE ROUTE 241

241X74

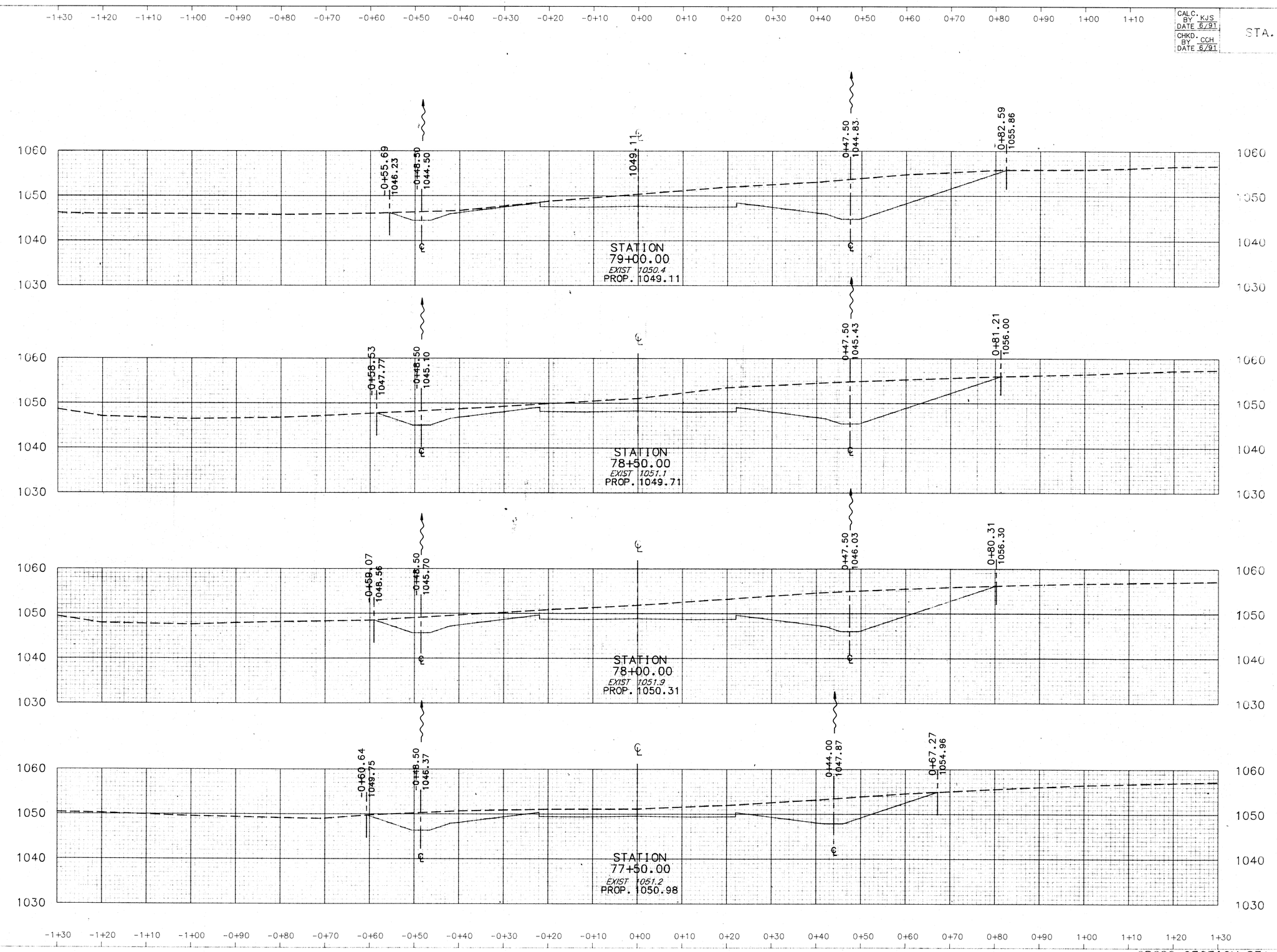
CROSS SECTION STA. 75+50 TO STA. 77+00

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
476	0		
		951	0
551	0		
		1009	0
539	0		
		802	0
328	0		
		551	0

241XTS

CROSS SECTION STA. 77+50 TO STA. 79+00

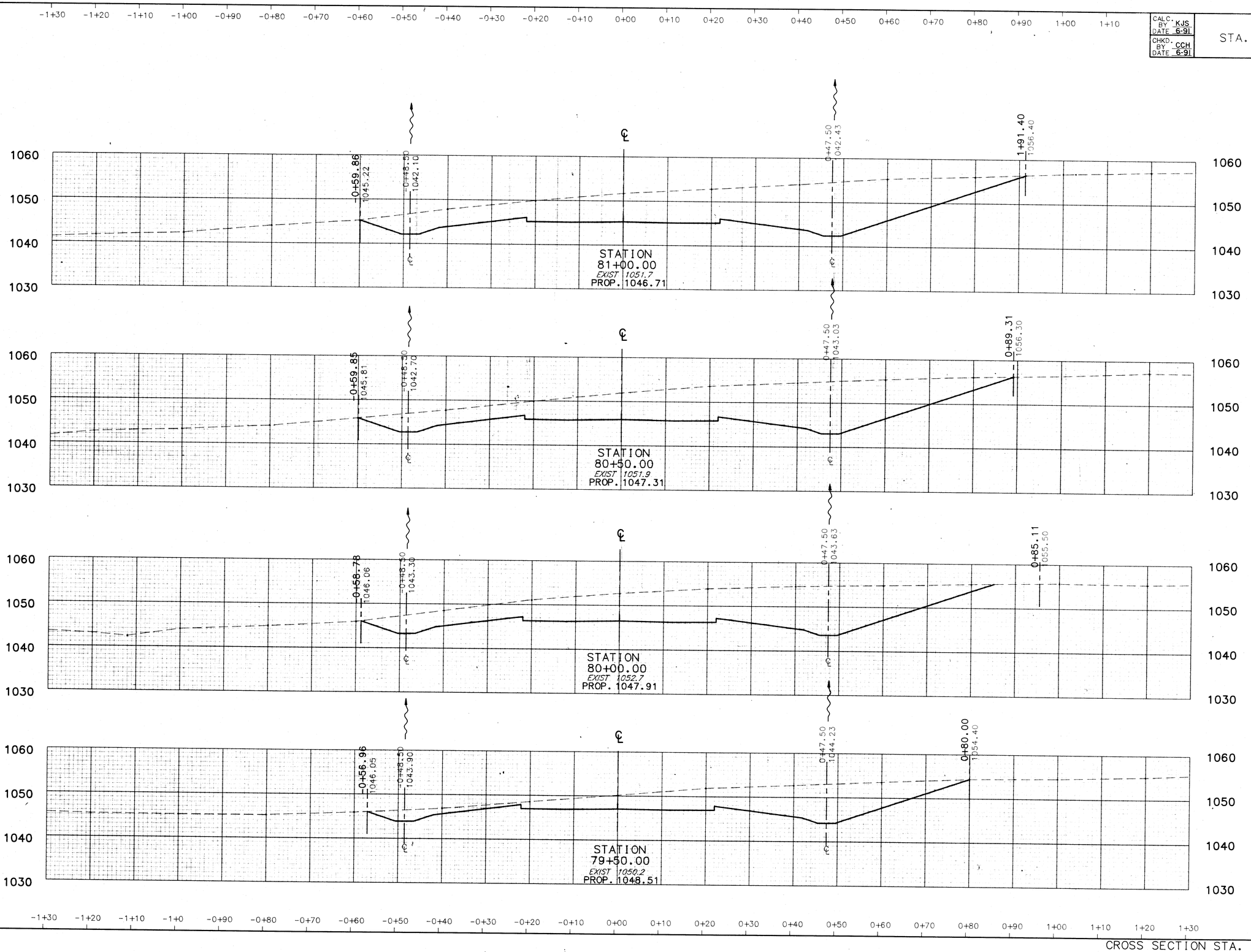
STATE ROUTE 241

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
937	0		
		1683	0
881	0		
		1590	0
836	0		
		1241	0
504	0		
		907	0

241X76

CROSS SECTION STA. 79+50 TO STA. 81+00

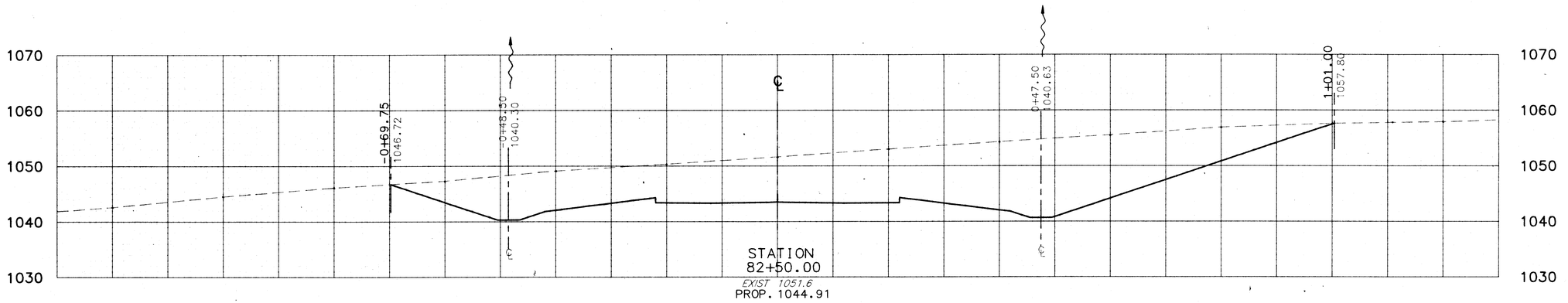
STATE ROUTE 241

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
1324	0		
		2388	0
1255	0		
		2208	0
1130	0		
		1913	0

STATE ROUTE 241

241XT7

CROSS SECTION STA. 81+50 TO STA. 82+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
1253	0		
		2497	0
1444	0		
		2659	0
1428	0		
		2548	0

STATE ROUTE 241

241XTB

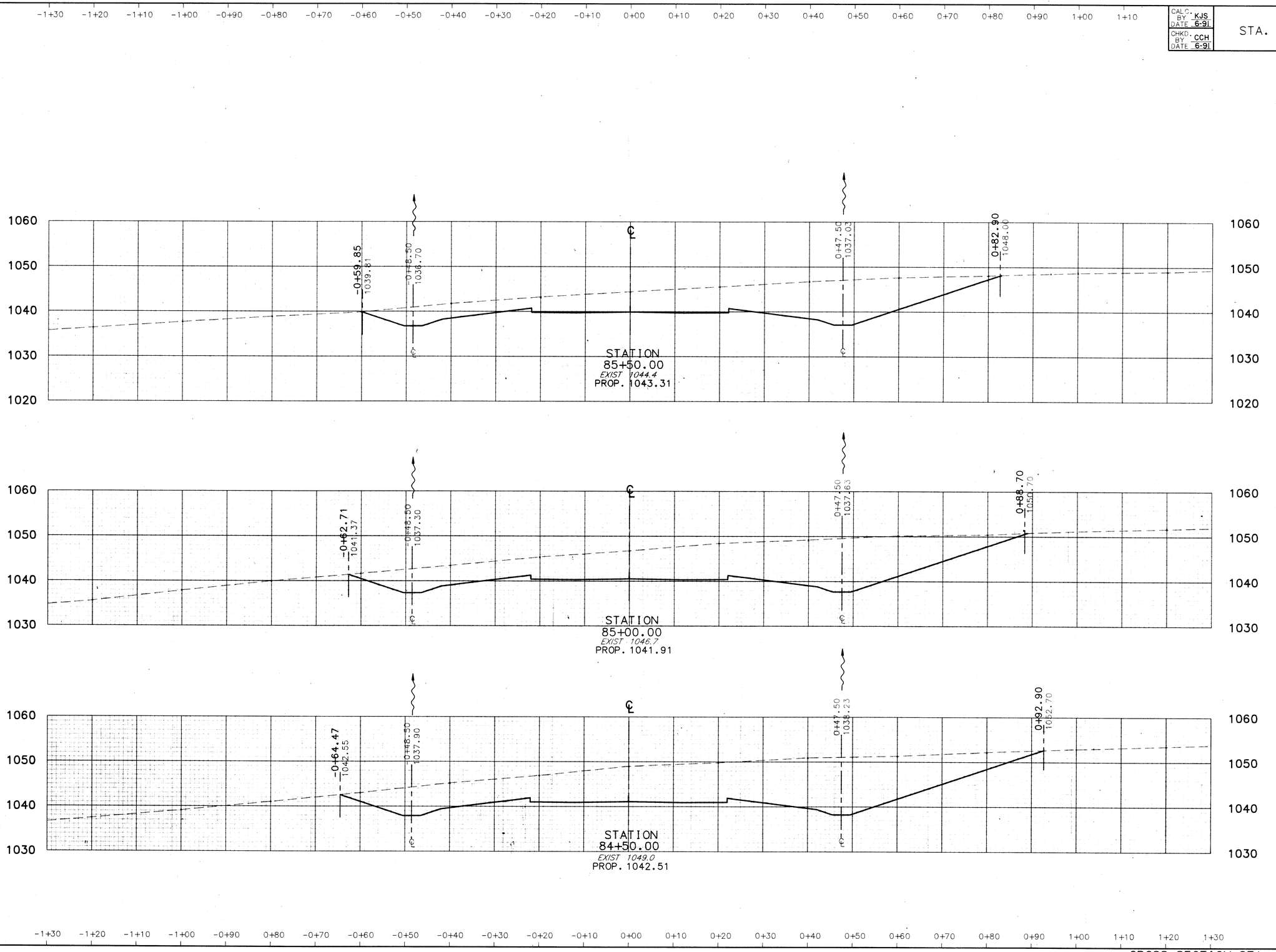
CROSS SECTION STA. 83+00 TO STA. 84+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1019	0
691	0		
		1510	0
940	0		
		1892	0
1104	0		
		2182	0

241X79

STATE ROUTE 241

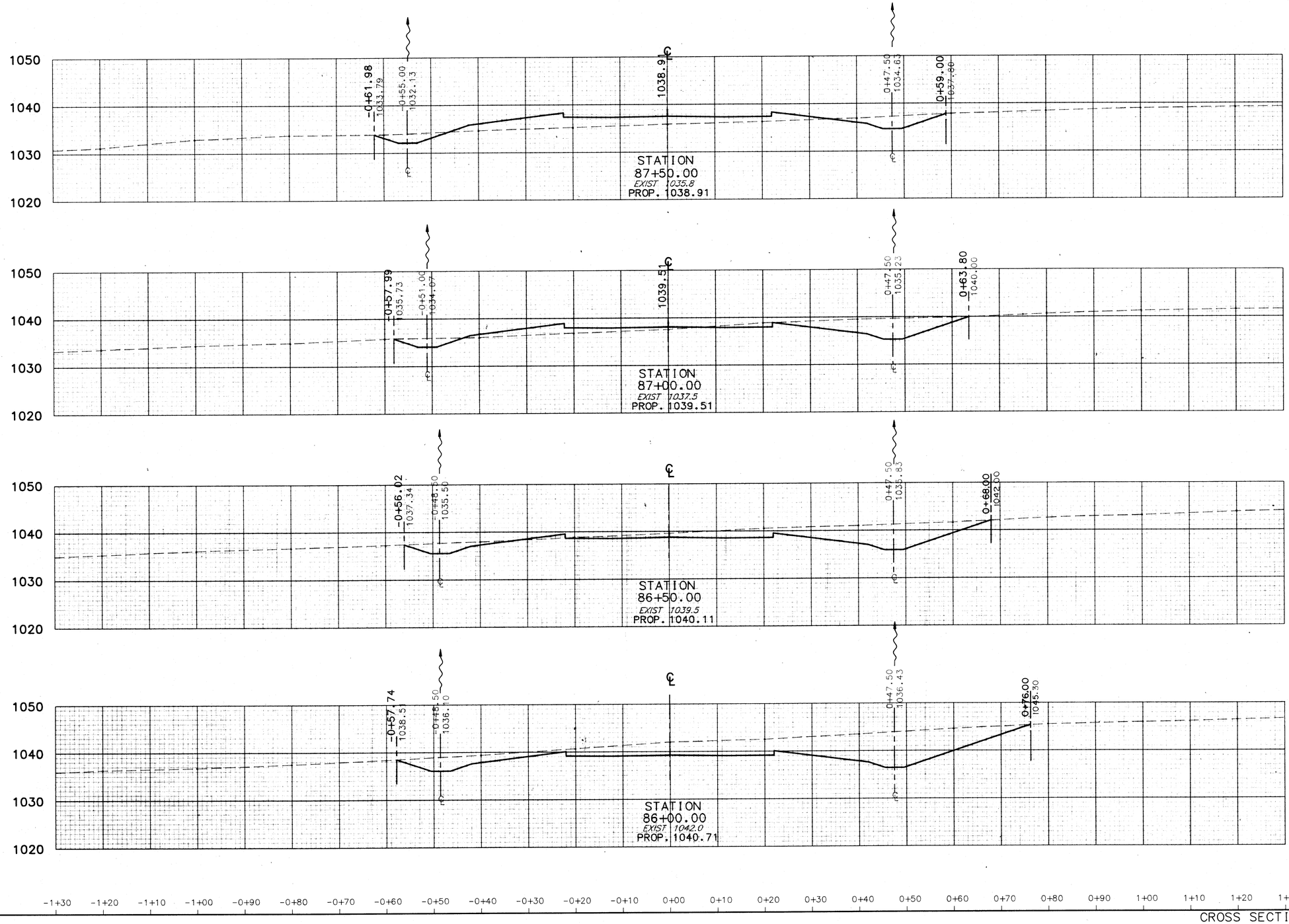
CROSS SECTION STA. 84+50 TO STA. 85+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

120
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
52	130		
		157	164
117	48		
		300	49
207	5		
		570	4
409	0		

CROSS SECTION STA. 86+00 TO STA. 87+50

STATE ROUTE 241

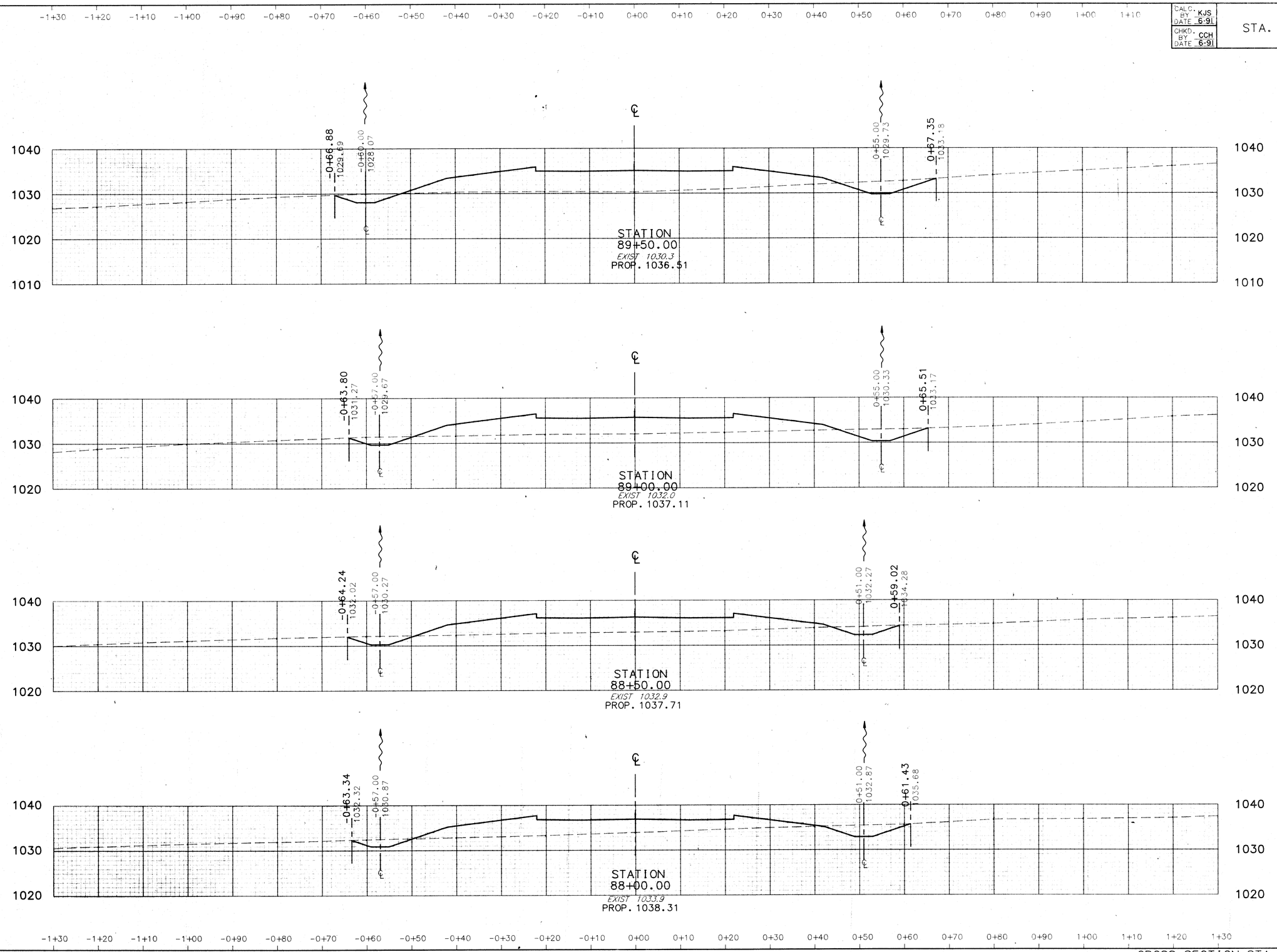
241XT10

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

121
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
52	365		
		92	607
47	291		
		76	515
35	266		
		73	462
44	233		
		89	336

STATE ROUTE 241

24TXSI

CROSS SECTION STA. 88+00 TO STA. 89+50

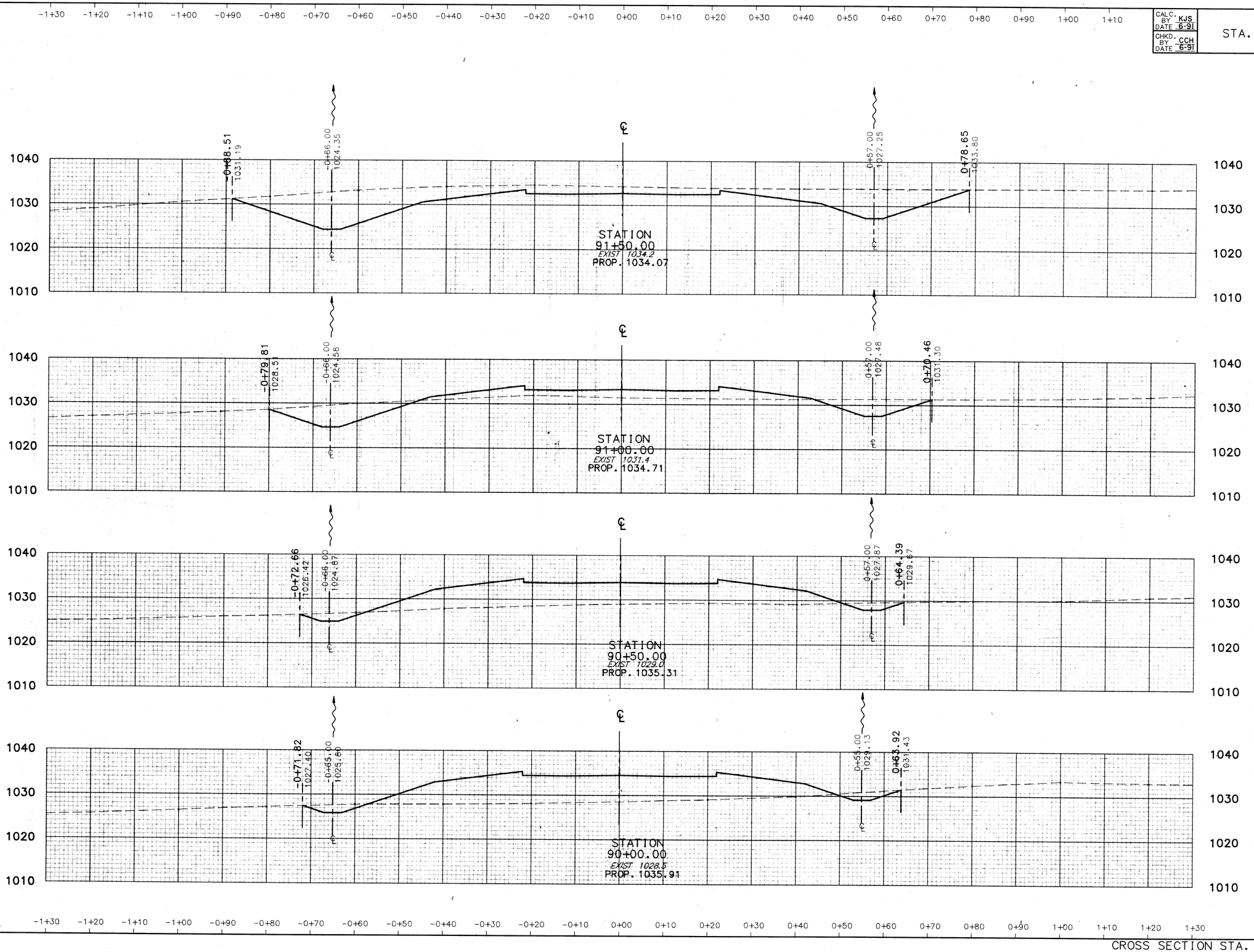
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO

FHWA REGION 5

122
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1230	0
535	0		
		636	129
152	139		
		170	549
32	454		
		60	900
33	518		
		79	817

STATE ROUTE 241

241XS2

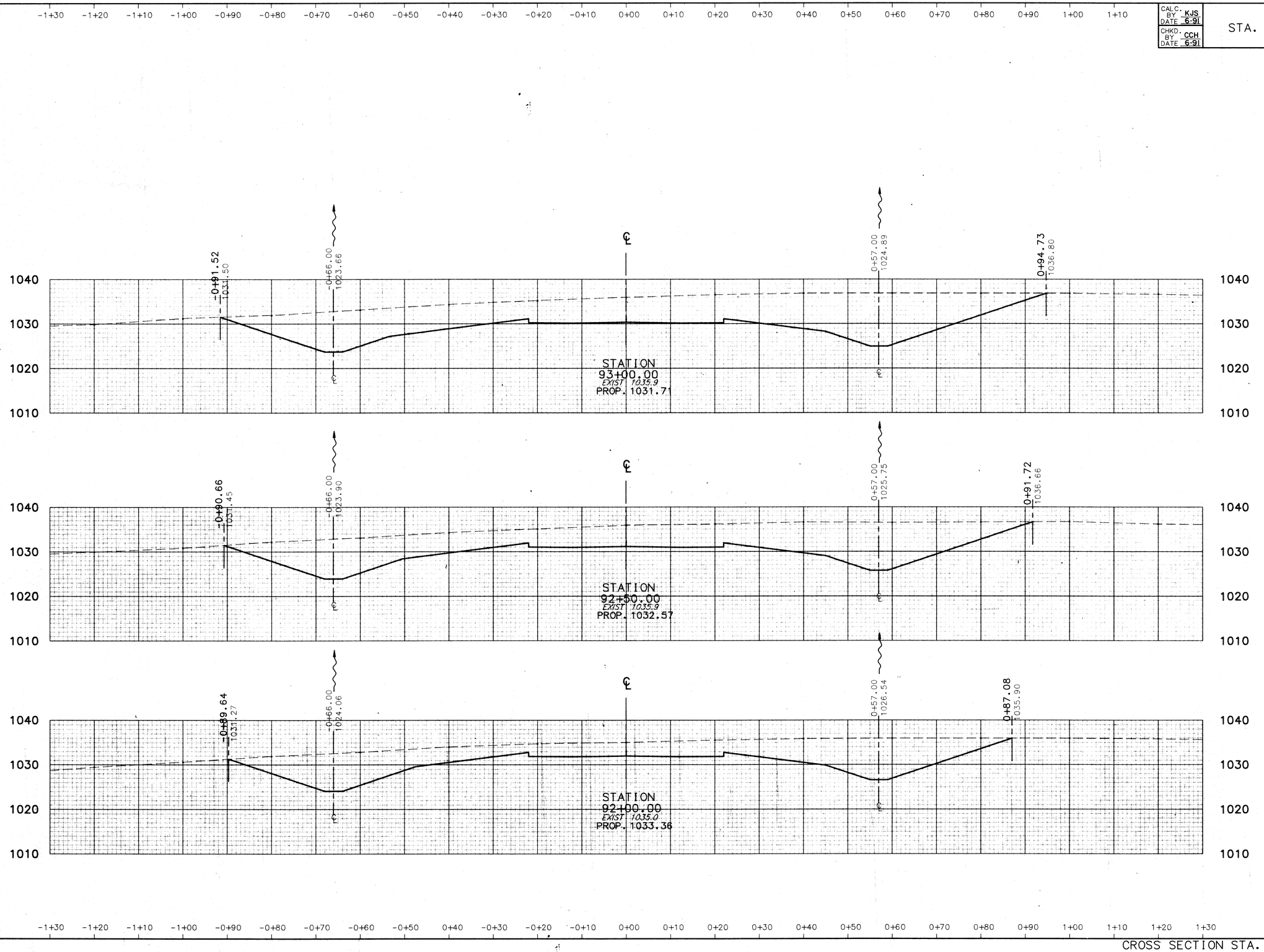
CROSS SECTION STA. 90+00 TO STA. 91+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

123/303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2198	0
1162	0		
		2010	0
1009	0		
		1669	0
794	0		

CROSS SECTION STA. 92+00 TO STA. 93+00

241XS3

STATE ROUTE 241

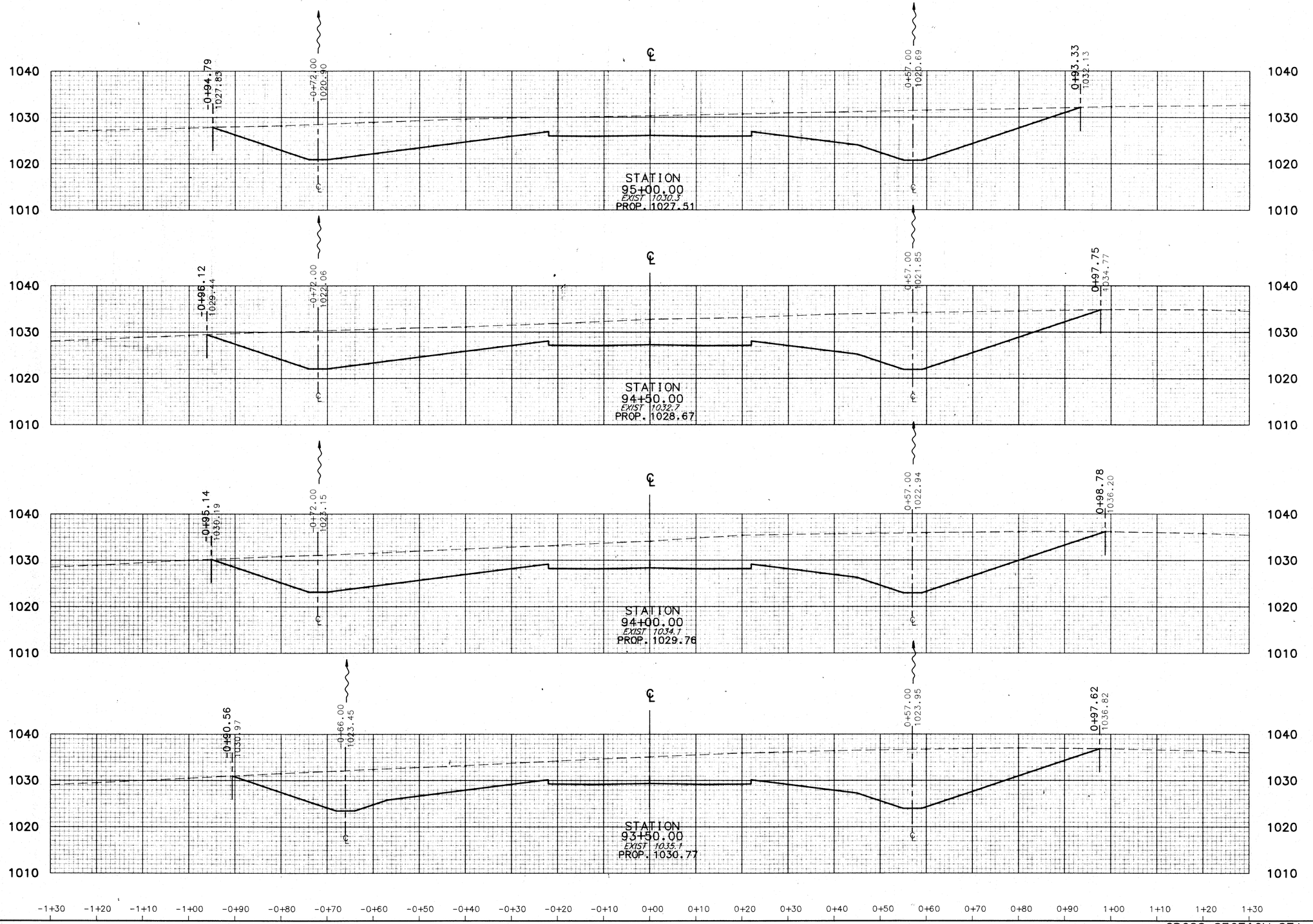
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

124
303

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



END AREA		VOLUME	
CUT	FILL	CUT	FILL
1004	0		
		2039	
1198	0		
		2286	0
1271	0		
		2299	0
1212	0		

STATE ROUTE 241

241XS4

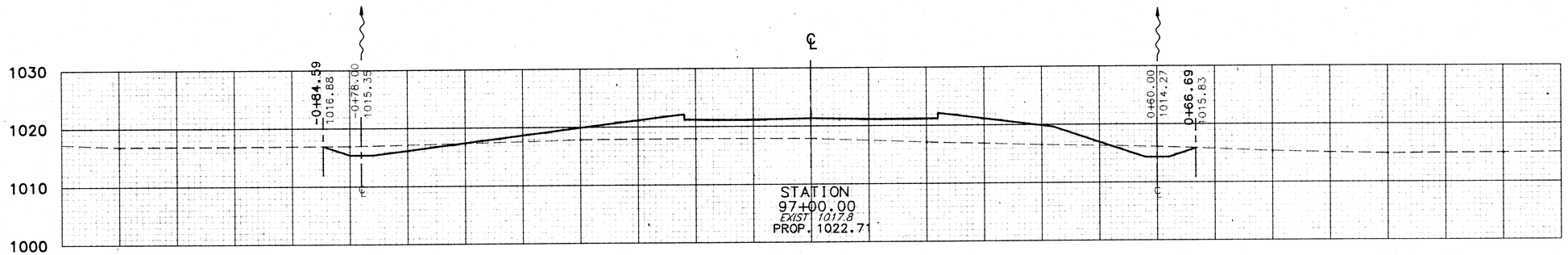
CROSS SECTION STA. 93+50 TO STA. 95+00

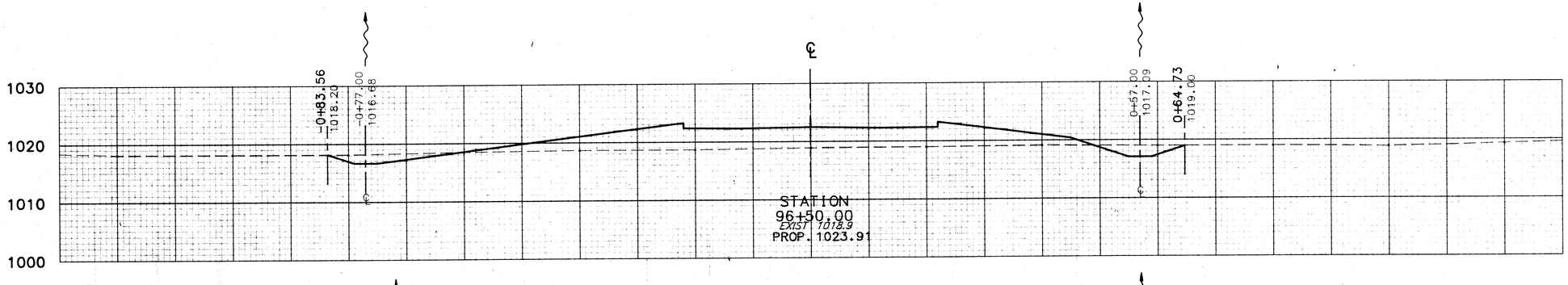
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

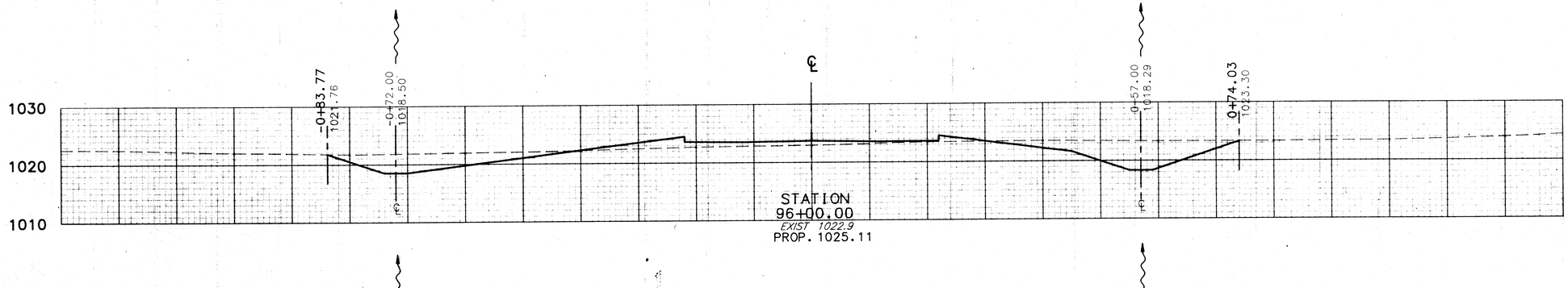
STA. - 241 - 4.22

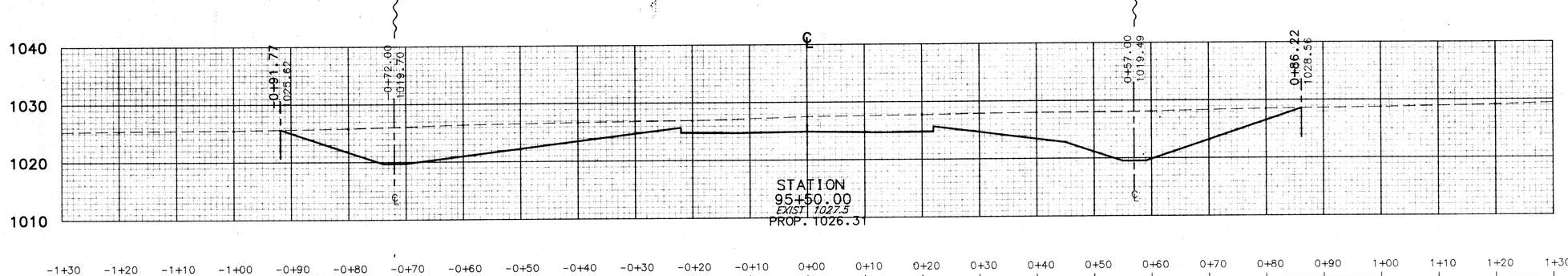
OHIO
FHWA REGION 5

125
303









END AREA		VOLUME	
CUT	FILL	CUT	FILL
40	331		
		74	590
41	306		
		207	328
183	48		
		805	44
687	0		
		1565	0

STATE ROUTE 241

241XS5

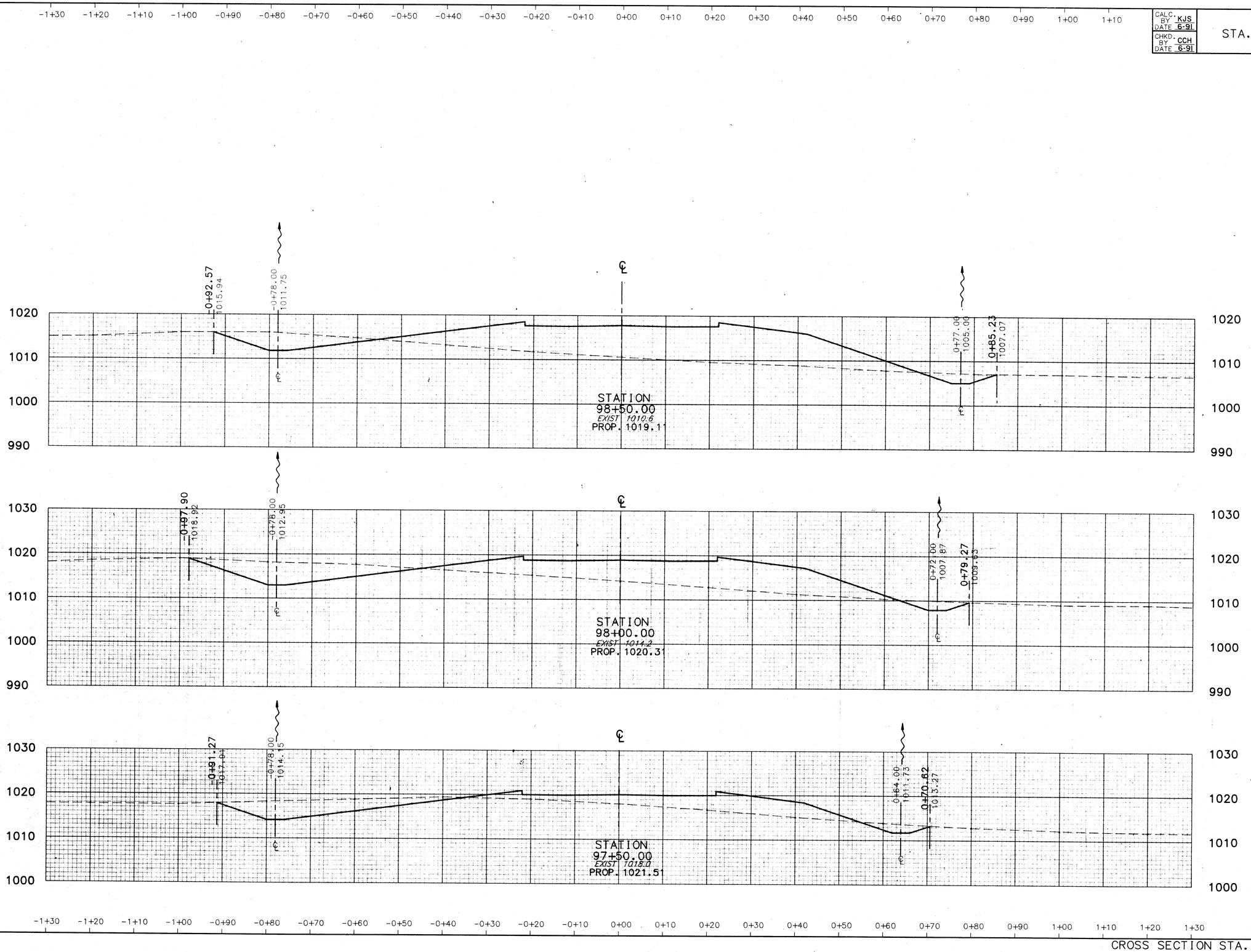
CROSS SECTION STA. 95+50 TO STA. 97+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		153	1434
109	676		
		260	1040
172	447		
		298	601
150	203		
		176	494

STATE ROUTE 241

241XS6

CROSS SECTION STA. 97+50 TO STA. 98+50

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

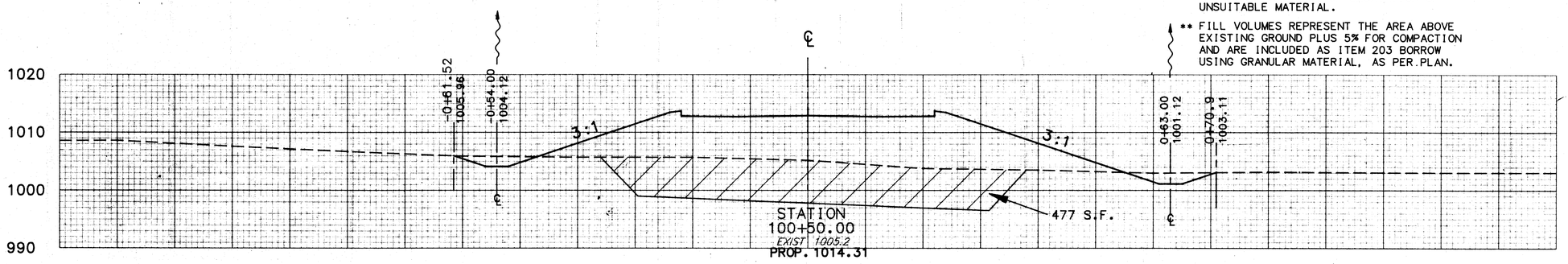
STA. - 241 - 4.22

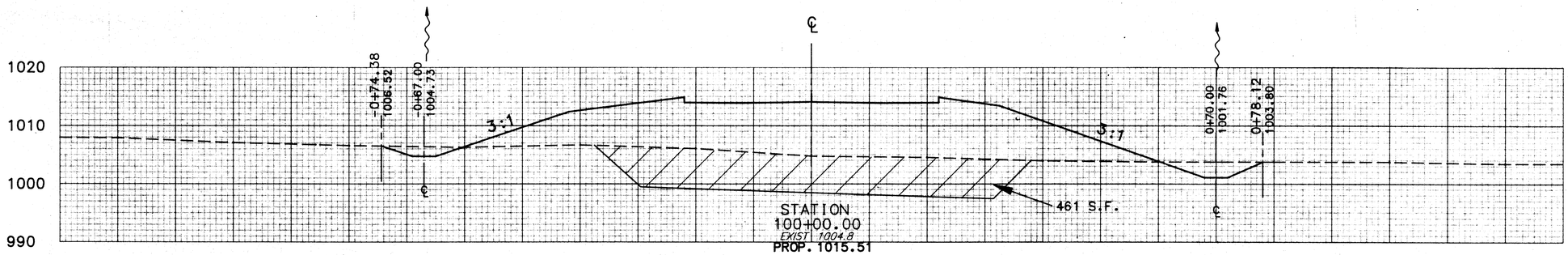
OHIO
FHWA REGION 5

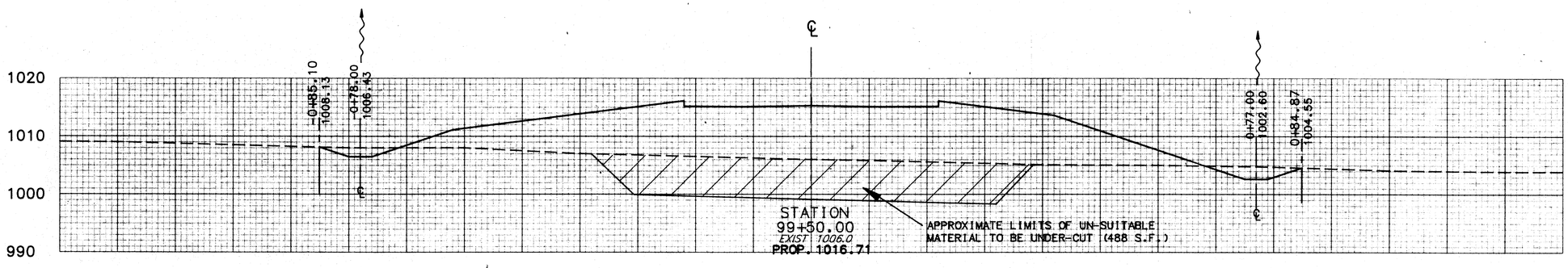
127/303

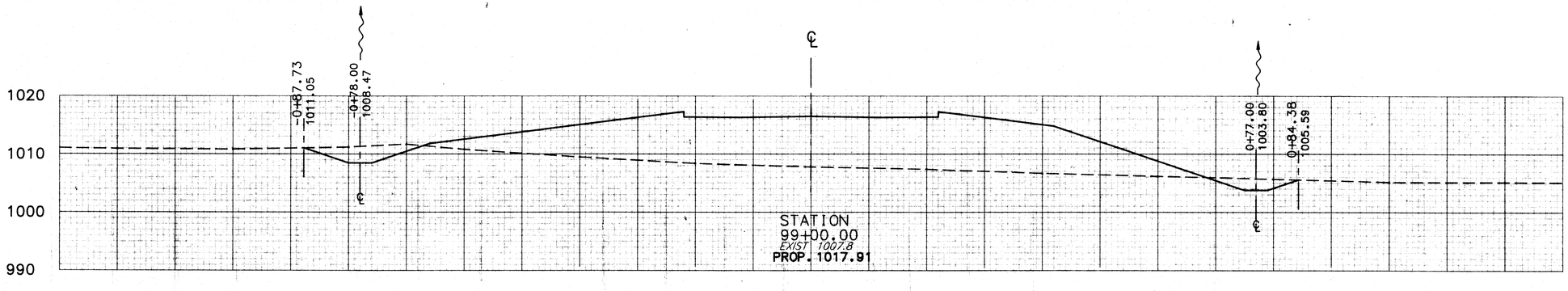
* CUT VOLUMES REPRESENT CROSS-HATCHED AREAS SHOWN AND ARE INCLUDED AS ITEM 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL.

** FILL VOLUMES REPRESENT THE AREA ABOVE EXISTING GROUND PLUS 5% FOR COMPACTION AND ARE INCLUDED AS ITEM 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN.









END AREA		VOLUME		BORROW VOLUME	
CUT	FILL	CUT	FILL	CUT*	FILL**
40	616	73	0	869	1404
38	828	69	0	879	1753
36	975	86	1710		
56	873				

STATE ROUTE 241

CROSS SECTION STA. 99+00 TO STA. 100+50

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

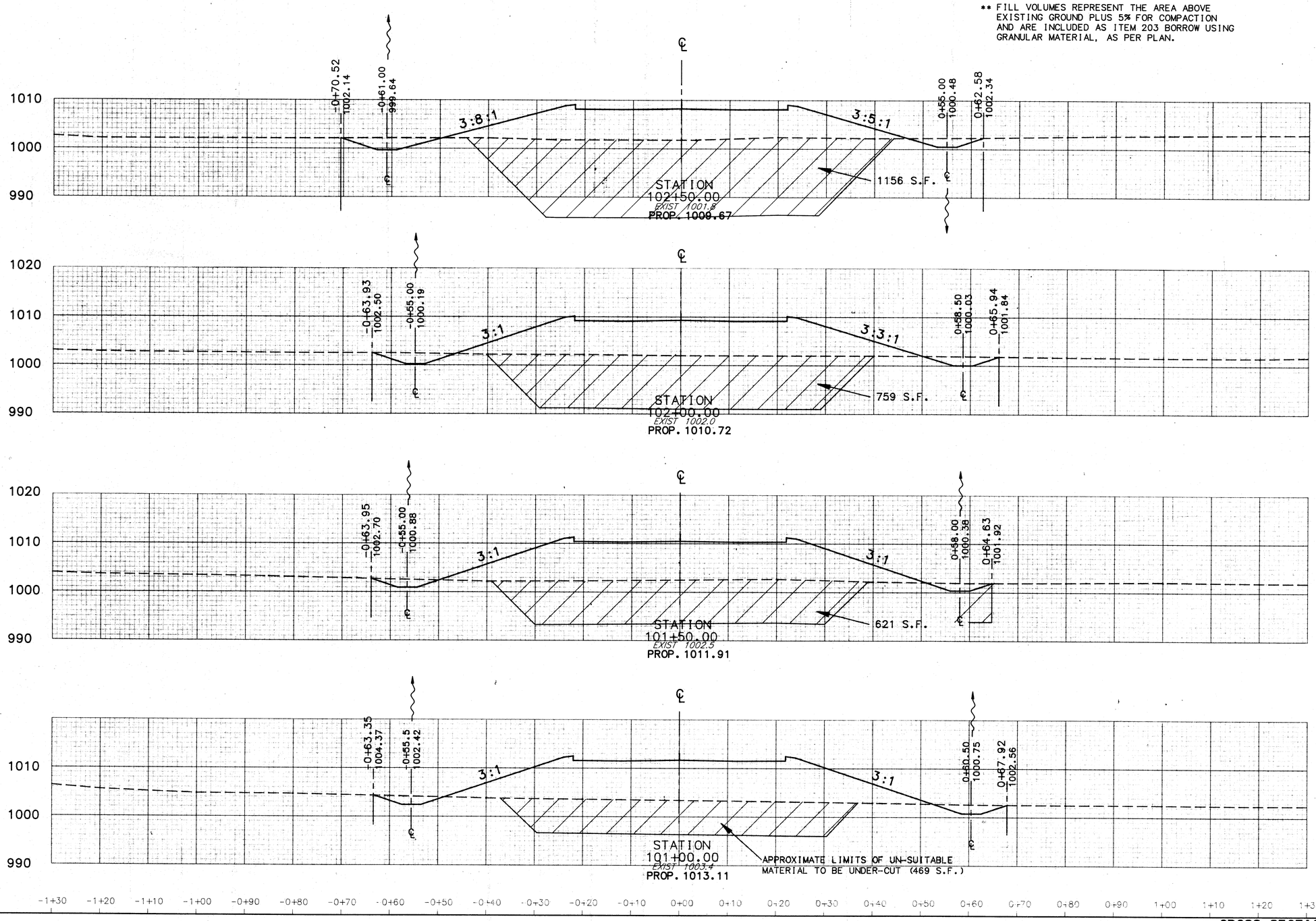
STA. - 241 - 4.22

OHIO
FHWA REGION 5

128/303

* CUT VOLUMES REPRESENT CROSS-HATCHED AREAS SHOWN AND ARE INCLUDED AS ITEM 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL.

** FILL VOLUMES REPRESENT THE AREA ABOVE EXISTING GROUND PLUS 5% FOR COMPACTION AND ARE INCLUDED AS ITEM 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN.



END AREA		VOLUME		BORROW VOLUME	
CUT	FILL	CUT	FILL	CUT*	FILL**
		86	0	2343	770
53	462				
		94	0	1773	967
48	533				
		71	0	1278	1112
28	611				
		59	0	1009	1205
36	628				
		71	0	876	1209

STATE ROUTE 241

241XS8

CROSS SECTION STA. 101+00 TO STA. 102+50

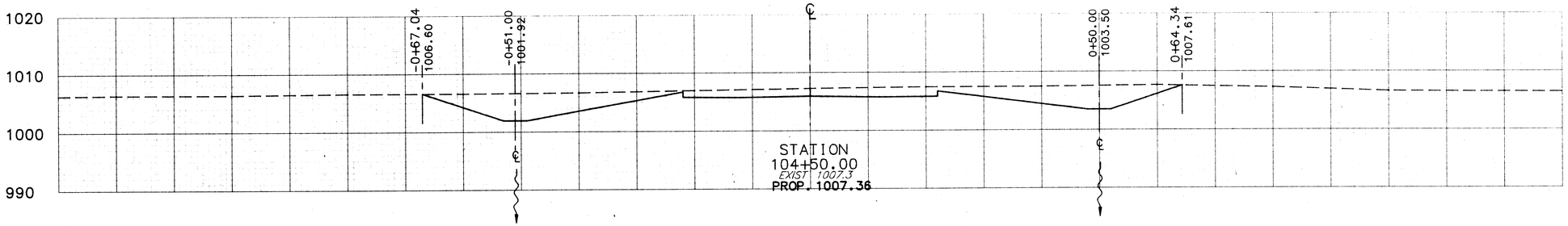
CALC. BY KJS DATE 6/01
CHKD. BY CCH DATE 6/01

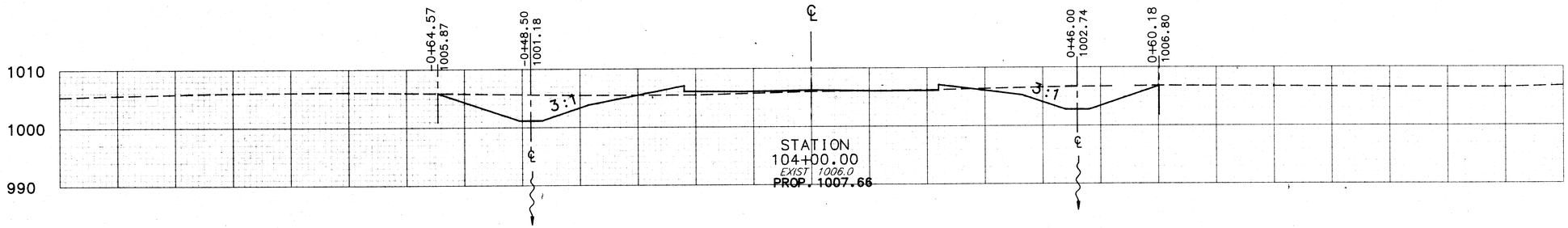
STA. - 241 - 4.22

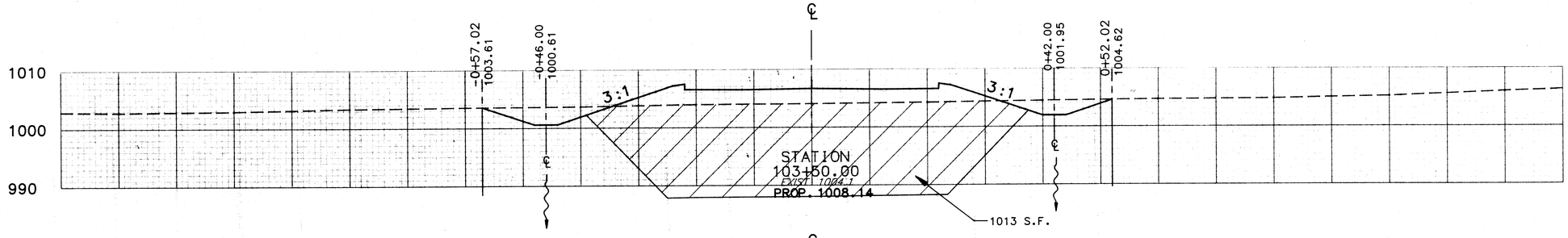
OHIO
FHWA REGION 5

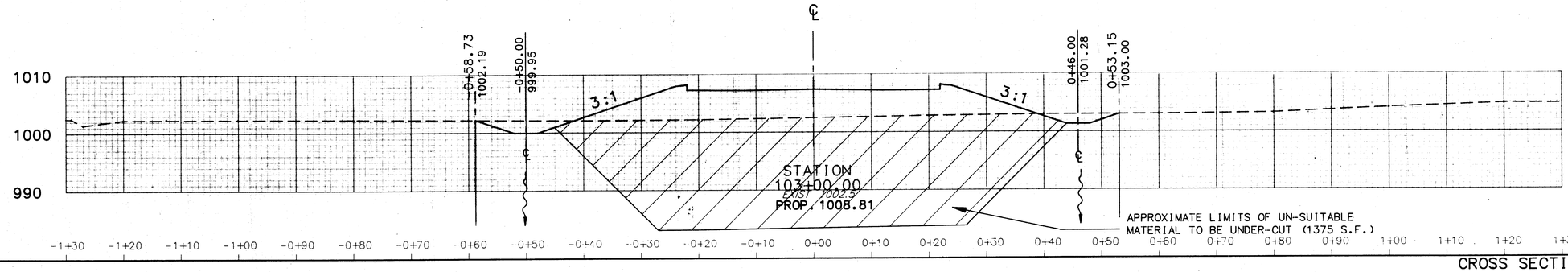
* CUT VOLUMES REPRESENT CROSS-HATCHED AREAS SHOWN AND ARE INCLUDED AS ITEM 203, BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL.

** FILL VOLUMES REPRESENT THE AREA ABOVE EXISTING GROUND PLUS 5% FOR COMPACTION AND ARE INCLUDED AS ITEM 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN.









-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME		BORROW VOLUME	
CUT	FILL	CUT	FILL	CUT *	FILL **
		512	0		
286	0				
		406	17		
152	18				
		198	157		
62	151				
		95	0	2211	468
40	330				

STATE ROUTE 241

241XS9

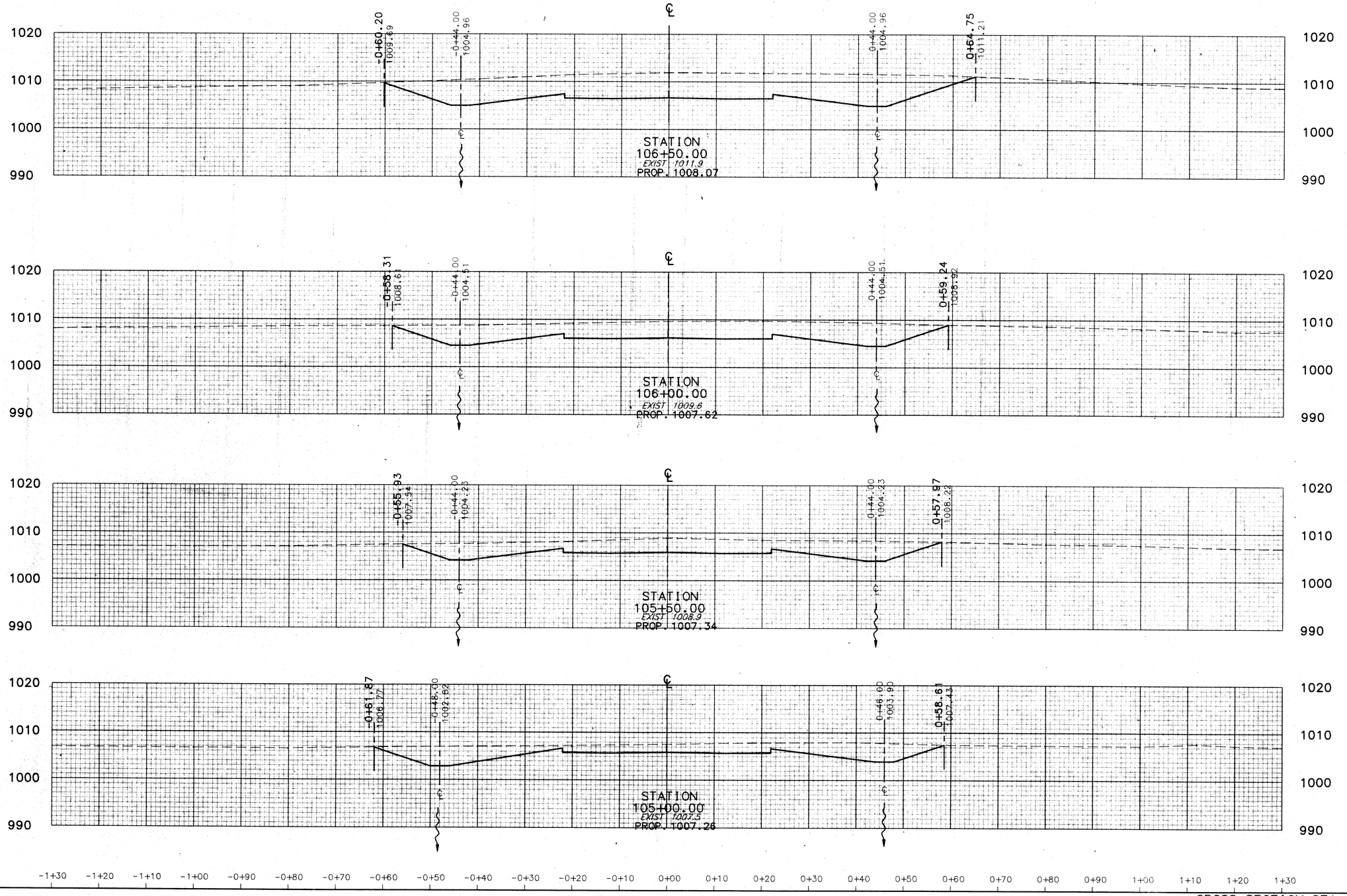
CROSS SECTION STA. 103+00 TO STA. 104+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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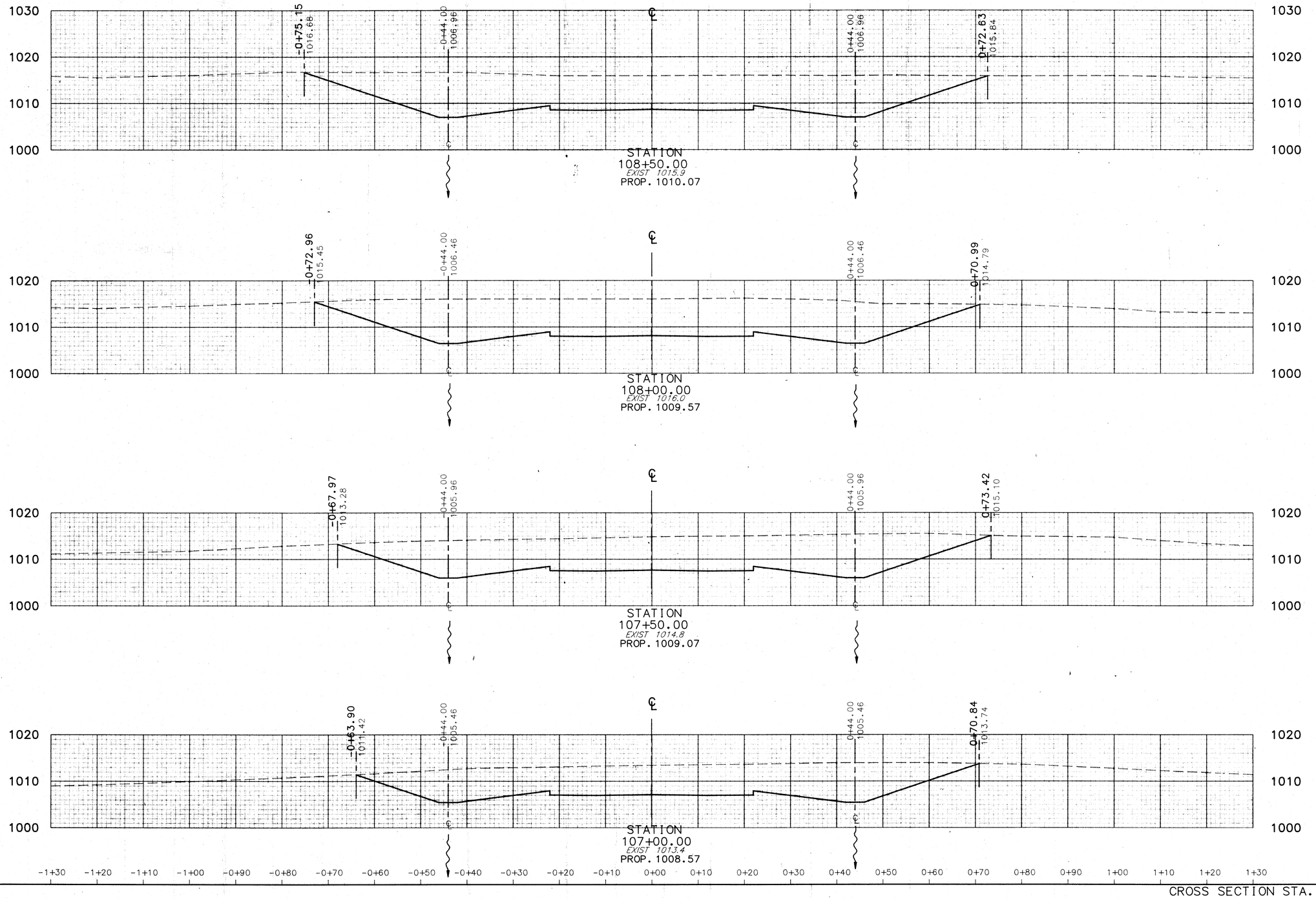


END AREA		VOLUME	
CUT	FILL	CUT	FILL
583	0		
		895	0
383	0		
		634	0
302	0		
		527	0
267	0		

241XS10

STATE ROUTE 241

CROSS SECTION STA. 105+00 TO STA. 106+50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
978	0		
		1825	0
994	0		
		1761	0
908	0		
		1556	0
773	0		
		1256	0

241XR1

STATE ROUTE 241

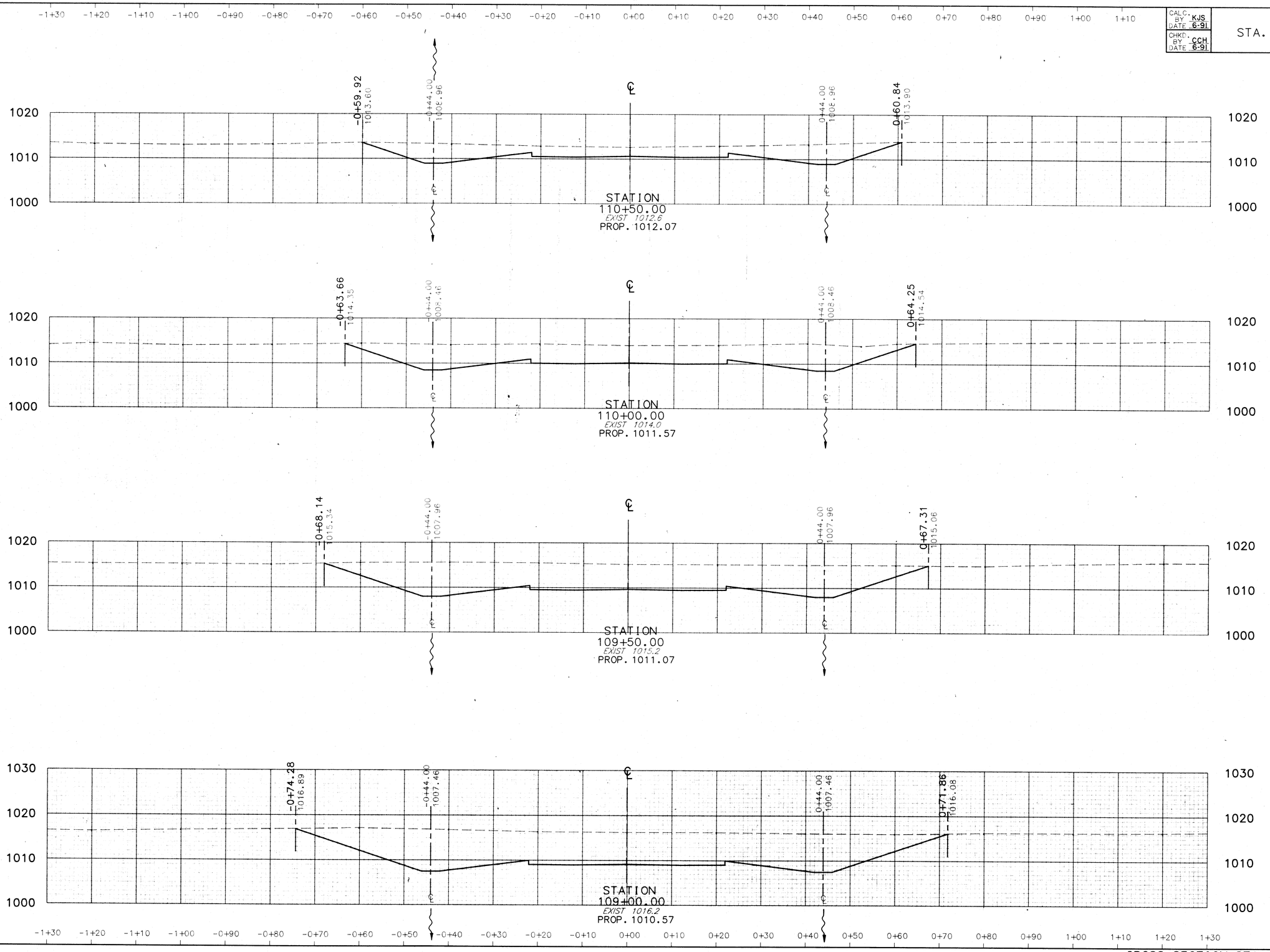
CROSS SECTION STA. 107+00 TO STA. 108+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
313	0		
		761	0
509	0		
		1137	0
719	0		
		1533	0
936	0		
		1772	0

241XR2

STATE ROUTE 241

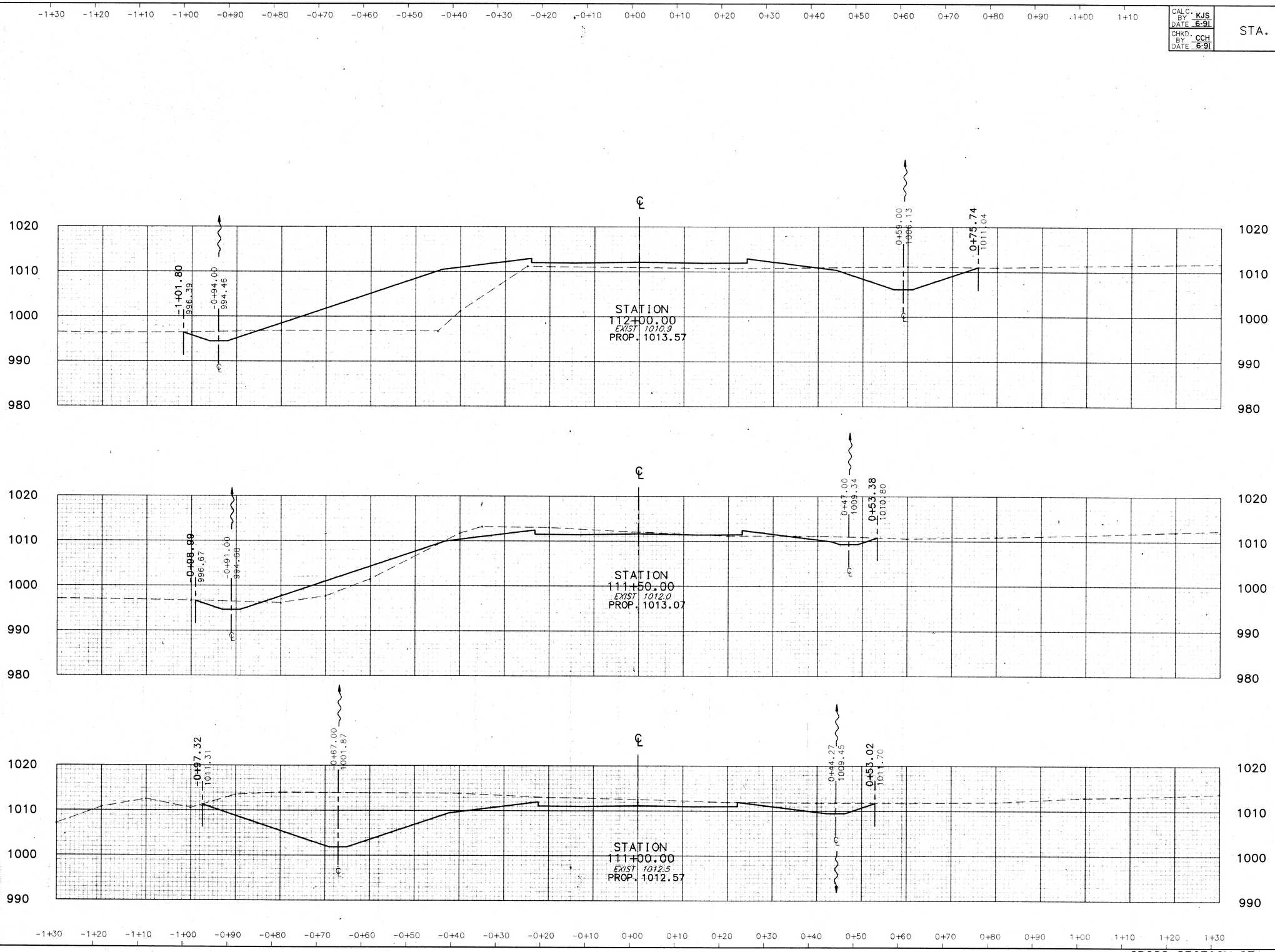
CROSS SECTION STA. 109+00 TO STA. 110+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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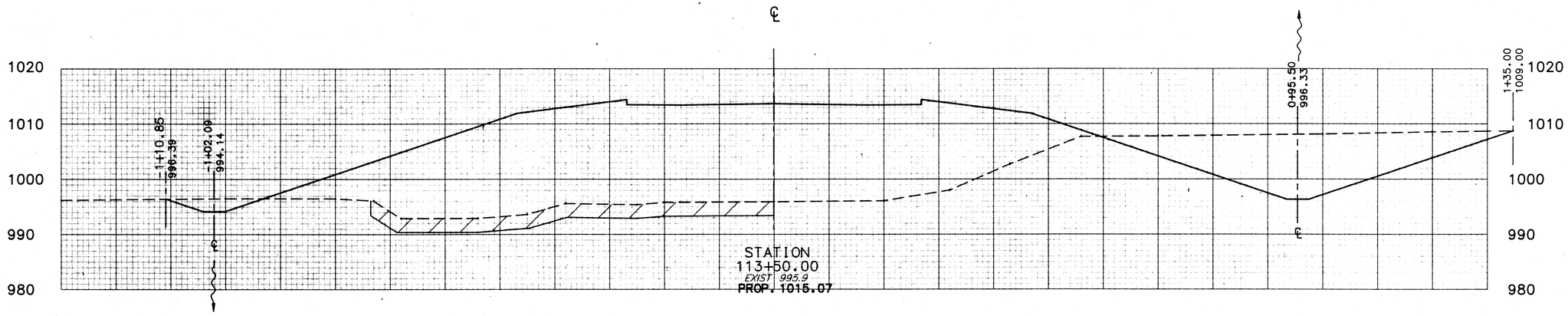
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		335	1080
115	483		
		191	530
91	89		
		627	83
587	0		
		833	0

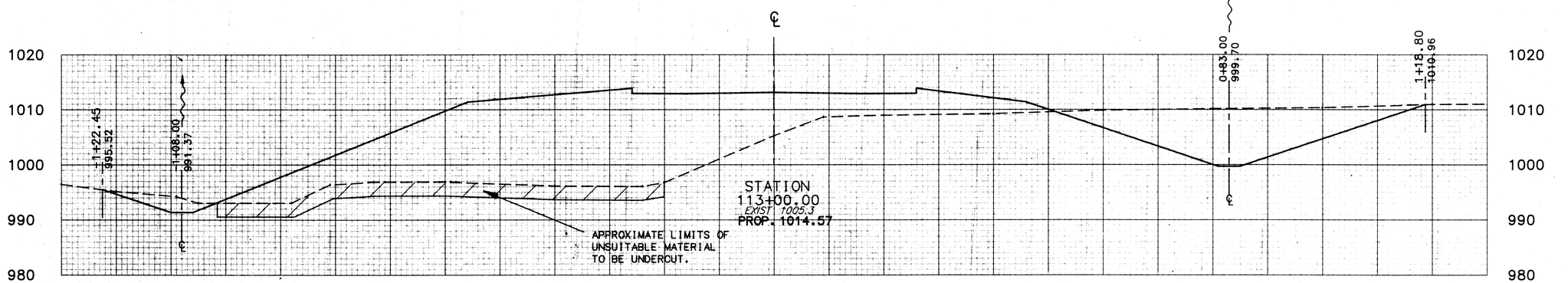
STATE ROUTE 241

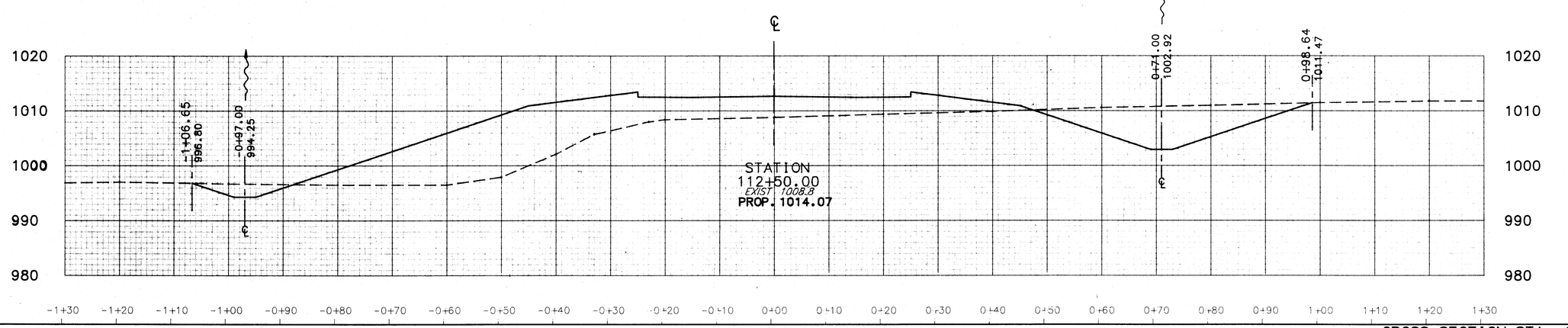
241XR3

CROSS SECTION STA. 111+00 TO STA. 112+00

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO	134 / 303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	







END AREA		VOLUME	
CUT	FILL	CUT	FILL
		496	4558
495	2044		
		836	3131
408	1337		
		606	1870
247	683		

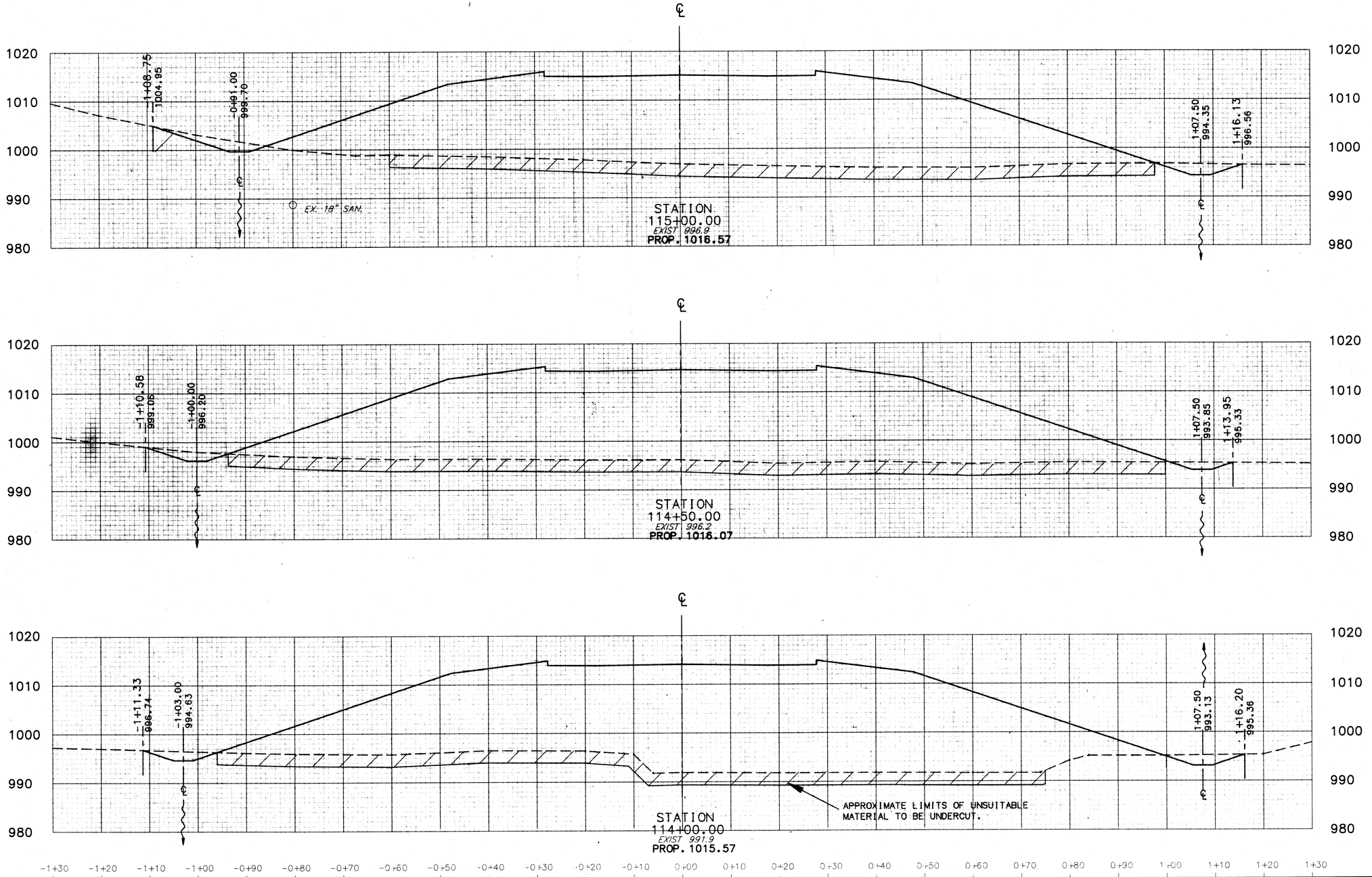
CROSS SECTION STA. 112+50 TO 113+50

STATE ROUTE 241

241XR4

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO	135/303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		260	3839
55	2426		
		81	4663
33	2610		
		68	5083
41	2879		

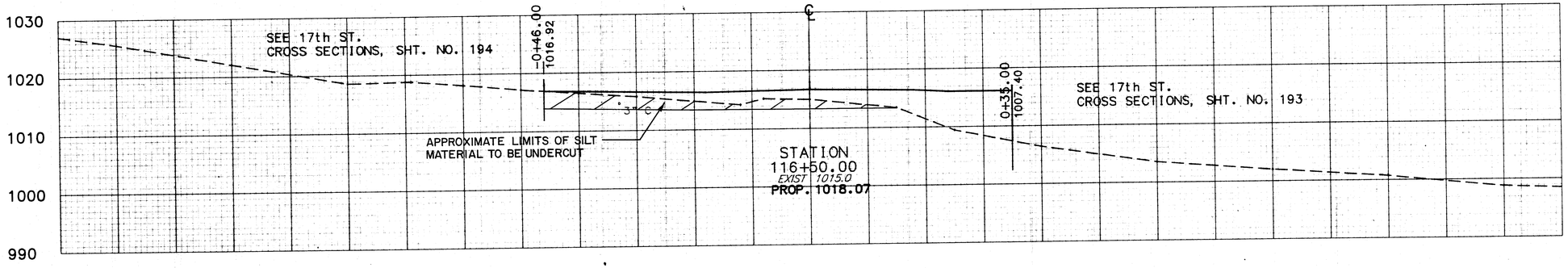
STATE ROUTE 241

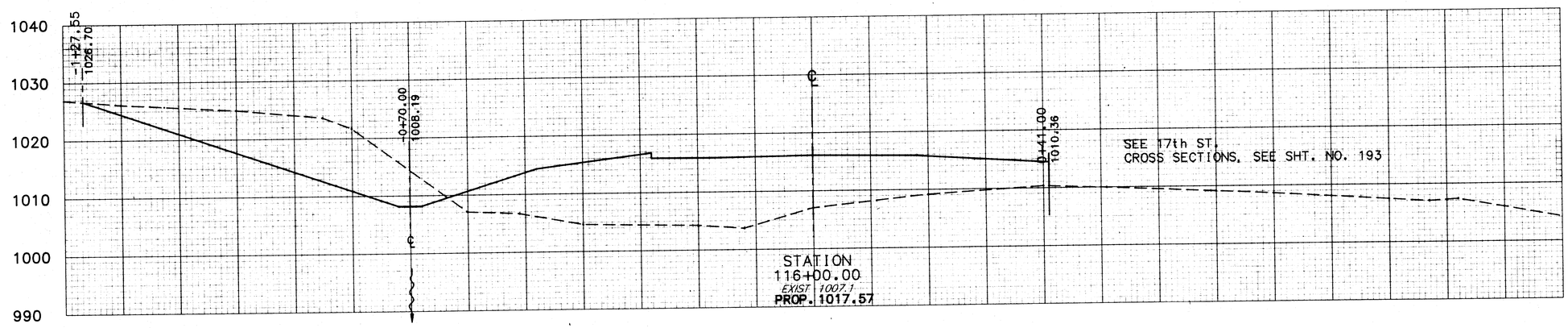
241XR5

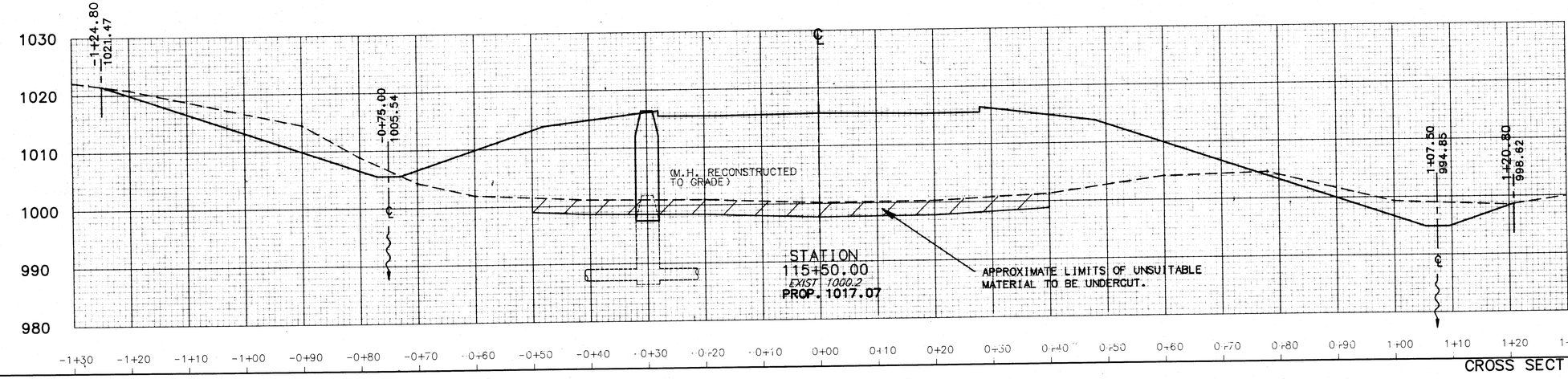
CROSS SECTION STA. 114+00 TO STA. 115+00

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	212		
		375	1004
405	872		
		584	2401
225	1720		

STATE ROUTE 241

241XR6

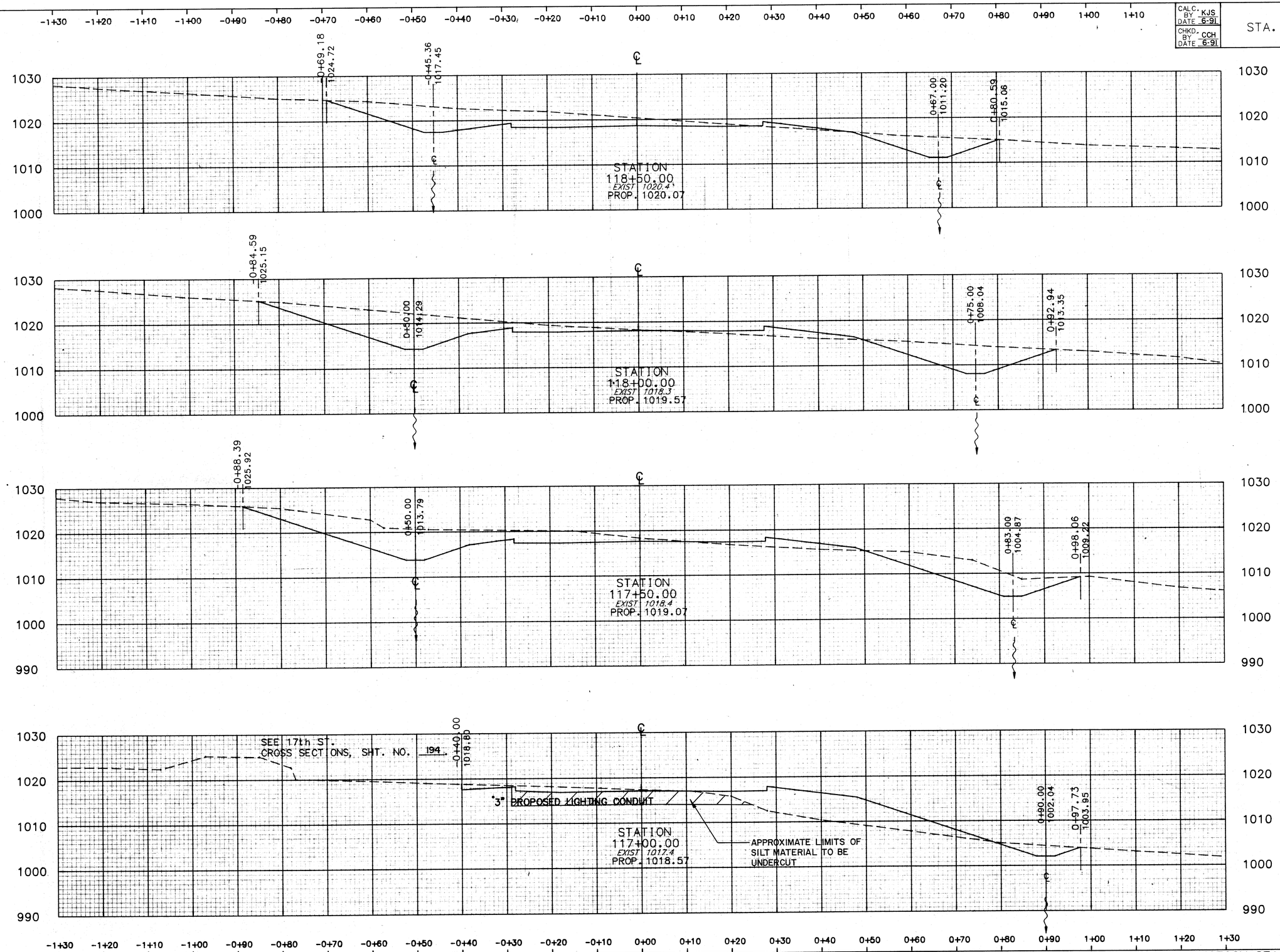
CROSS SECTION STA. 115+50 TO STA. 116+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

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FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
342	10		
		711	46
426	39		
		836	71
478	37		
		501	249
64	232		
		59	411

STATE ROUTE 241

241XR7

CROSS SECTION STA. 117+00 TO STA. 118+50

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO	138/303
CHKD. BY CCH DATE 6-91		FHWA REGION 5	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
418	15		
		739	34
381	22		
		841	25
528	5		
		805	14

241XR8

STATE ROUTE 241

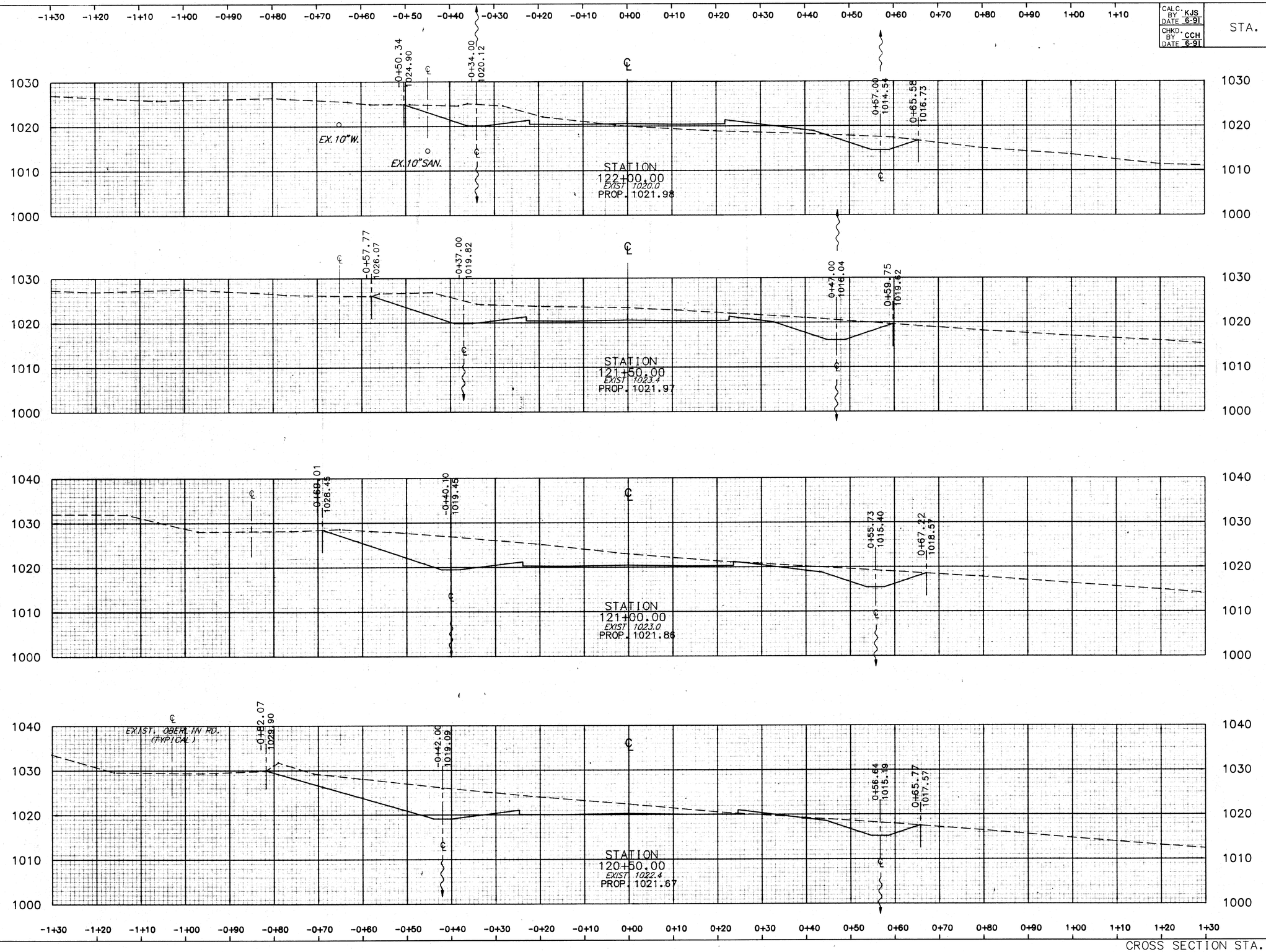
CROSS SECTION STA. 119+00 TO 120+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
143	57		
		453	53
346	0		
		717	0
428	0		
		751	4
383	5		
		741	19

241XR9

STATE ROUTE 241

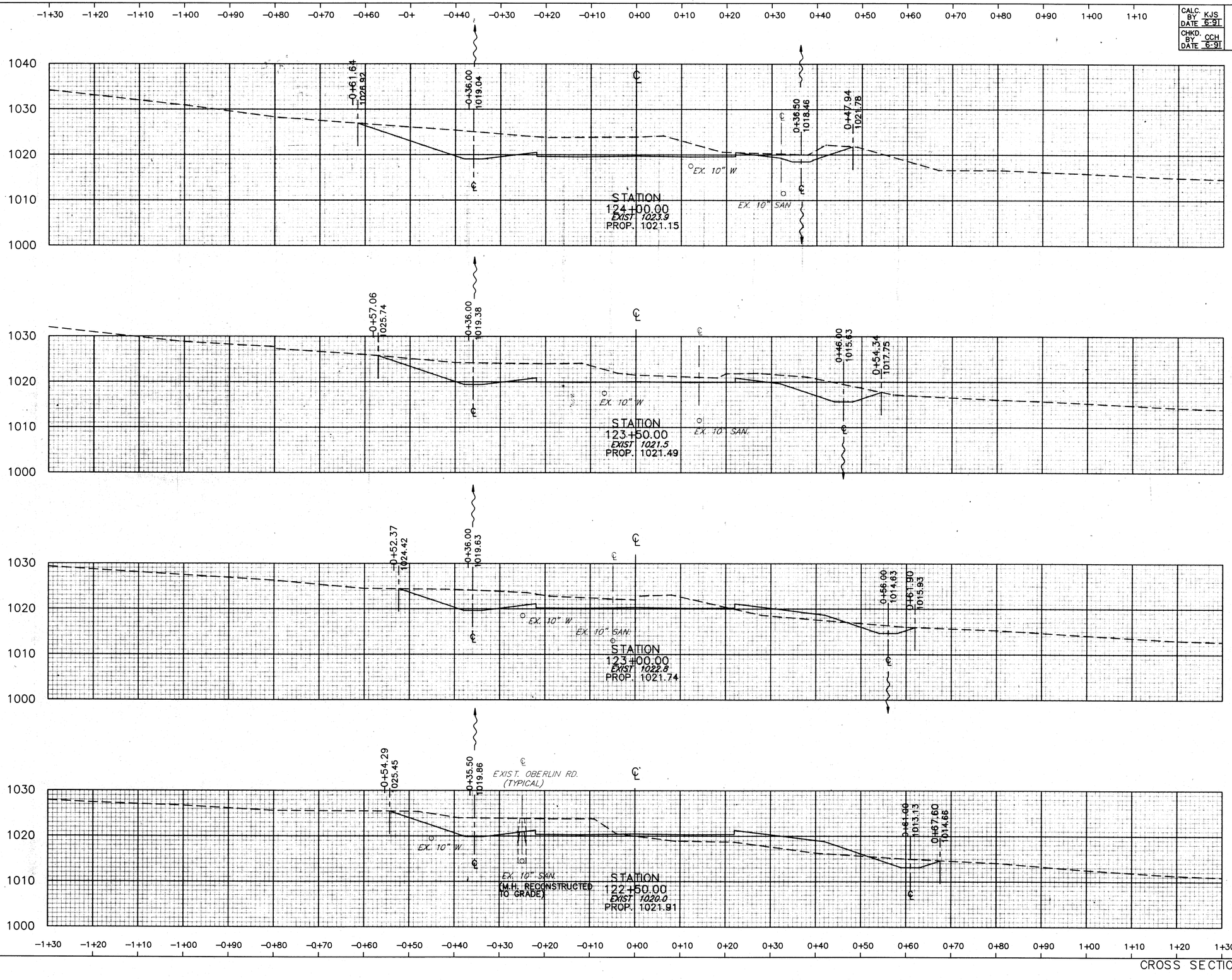
CROSS SECTION STA. 120+50 TO STA. 122+00

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. – 241 – 4.22

OHIO
FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
340	0		
		586	0
293	0		
		455	31
199	32		
		337	119
165	95		
		285	141

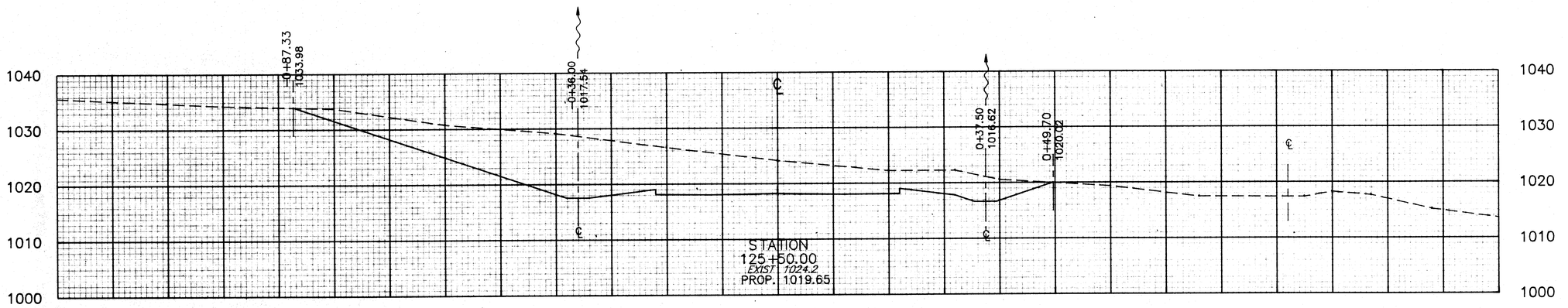
241XX1

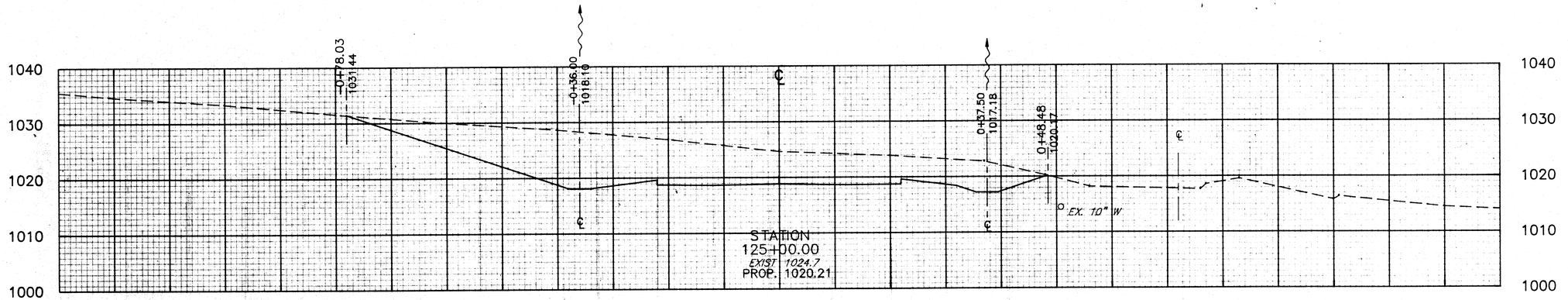
CROSS SECTION STA. 122+50 TO STA. 124+00

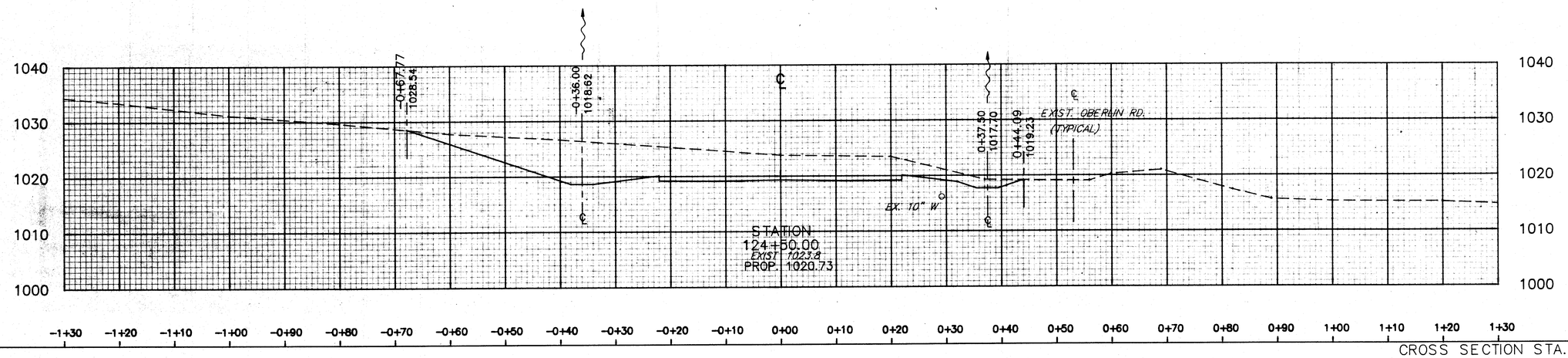
STATE ROUTE 241

CALC. BY KJS DATE 6-91	STA. – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

141
303







END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1425	0
806	0		
		1434	0
743	0		
		1133	0
481	0		
		761	0

STATE ROUTE 241

241xx2

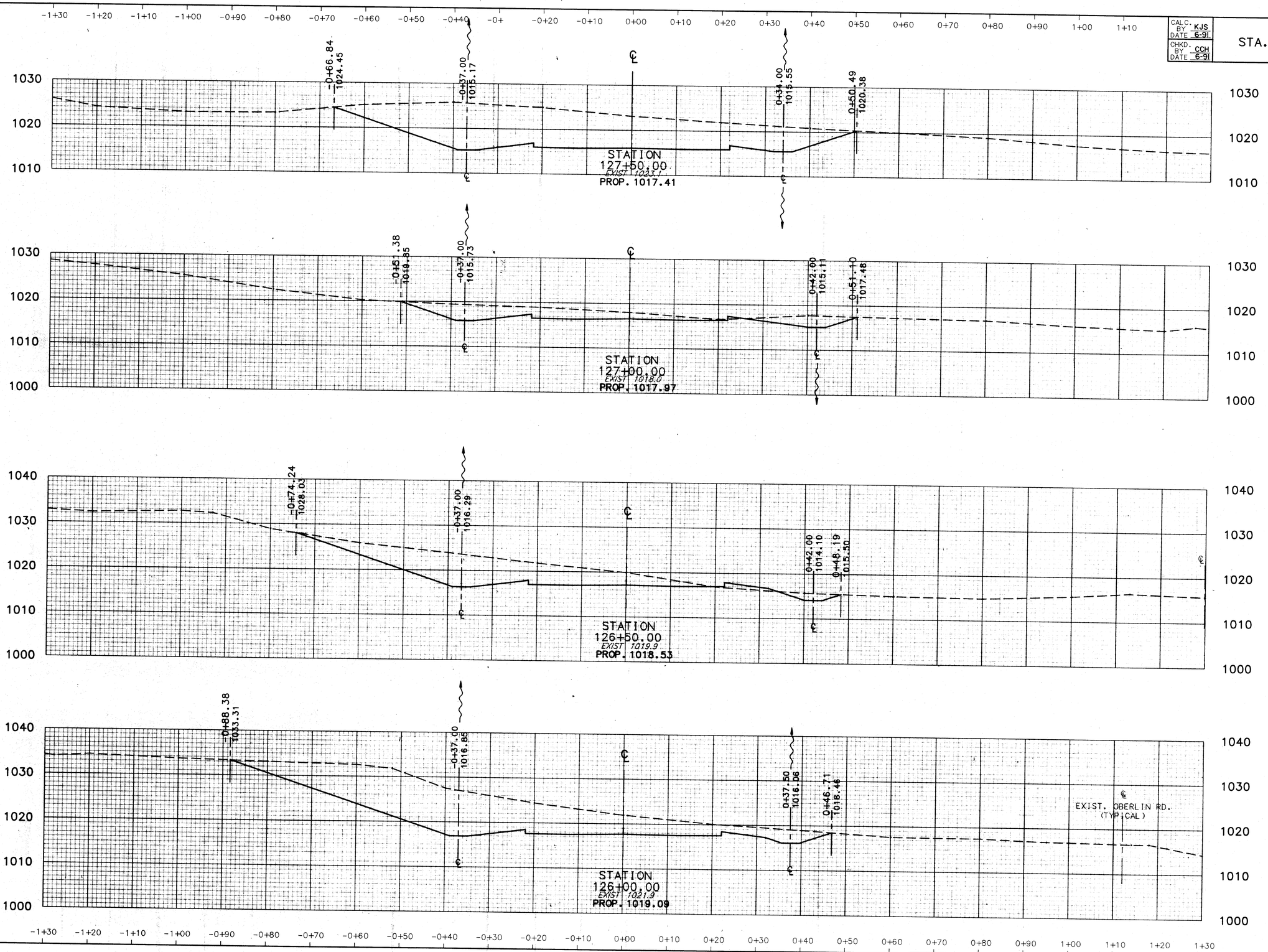
CROSS SECTION STA. 124+50 TO STA. 125+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

142
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END AREA		VOLUME	
CUT	FILL	CUT	FILL
753	0		
		857	1
171	1		
		488	10
356	9		
		1008	9
733	0		

241XX3

STATE ROUTE 241

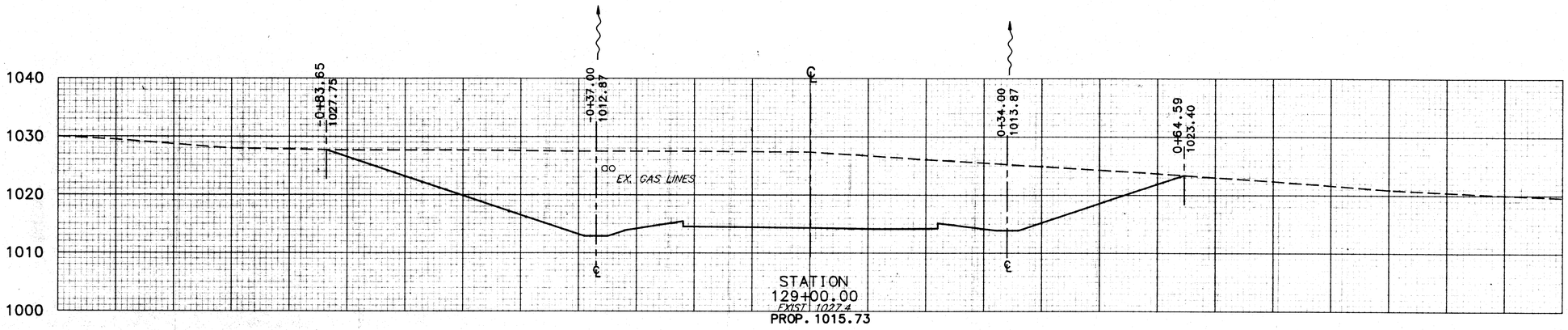
CROSS SECTION STA. 126+00 TO STA. 127+50

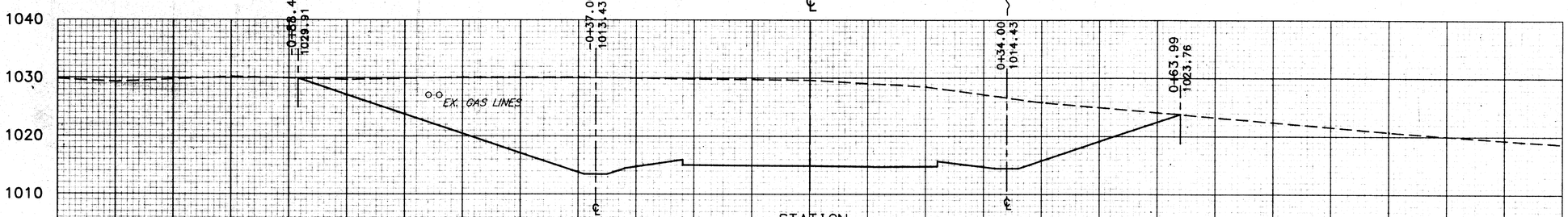
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

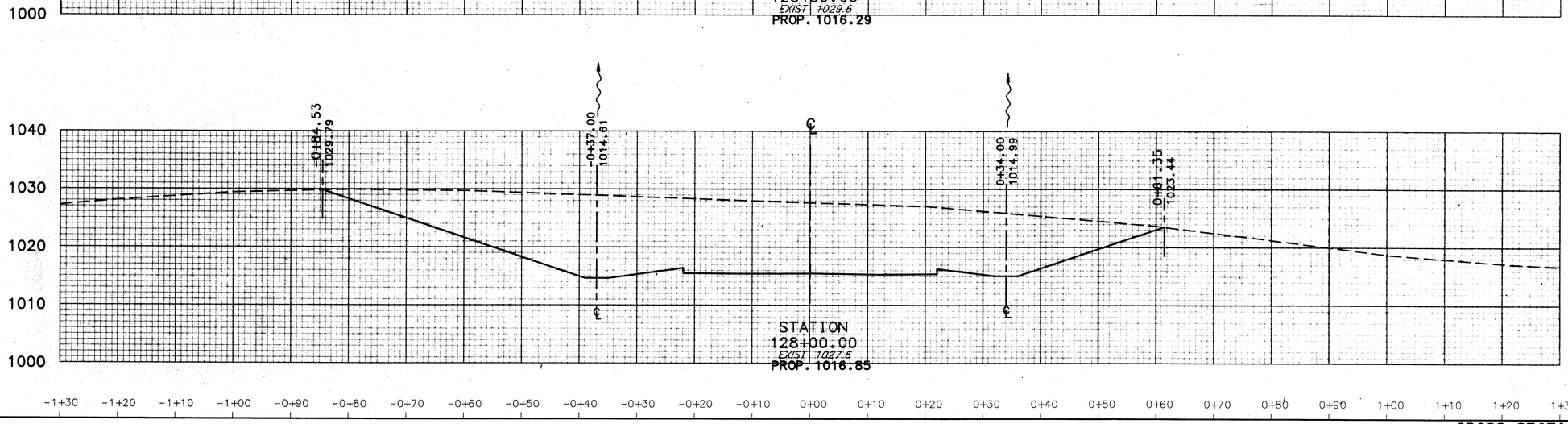
STA. - 241 - 4.22

OHIO
FHWA REGION 5

143
303





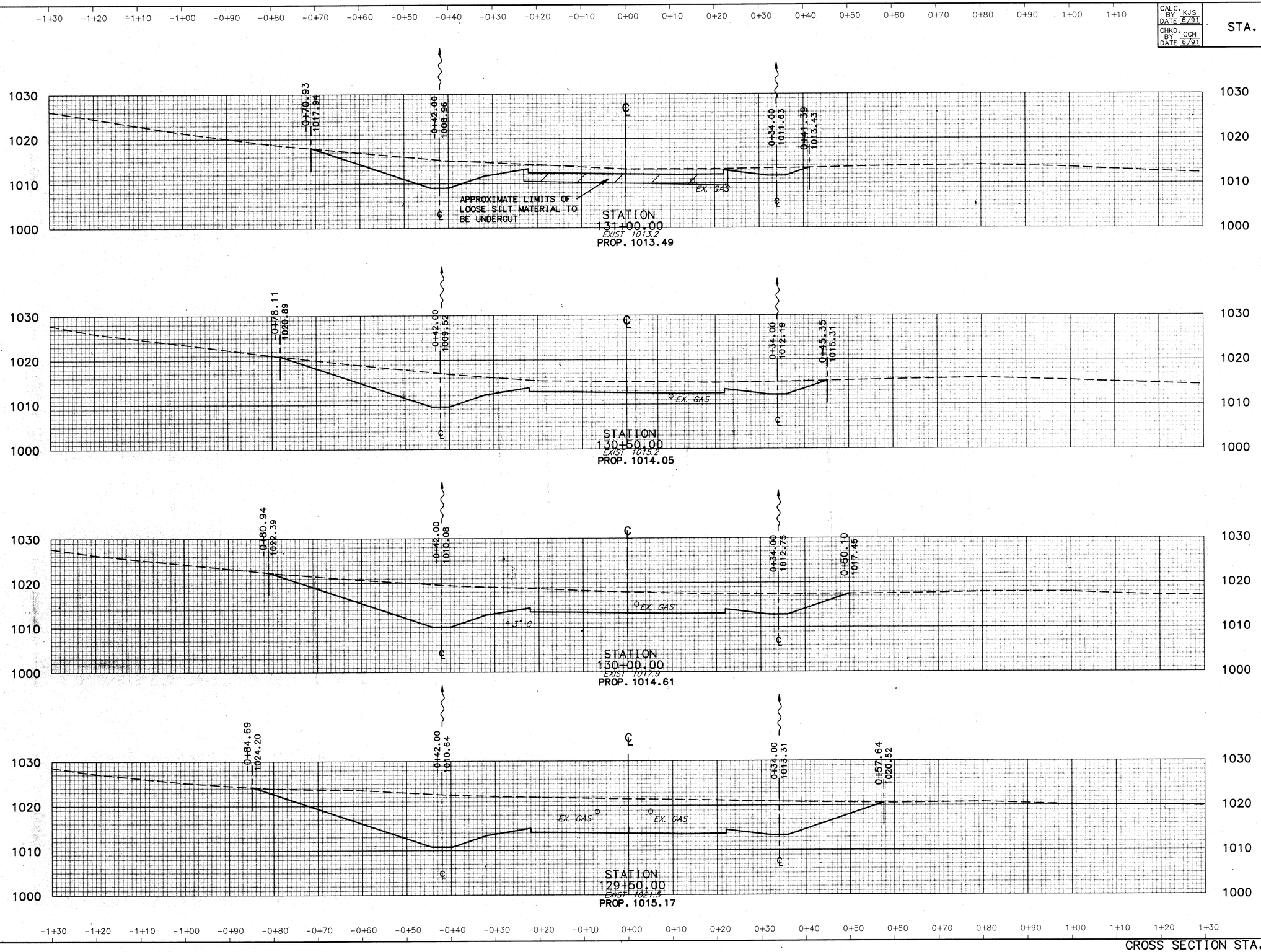


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2251	0
1444	0		
		2868	0
1653	0		
		2821	0
1393	0		
		1988	0

241XX4

STATE ROUTE 241

CROSS SECTION STA. 128+00 TO STA. 129+00



END AREA		VOLUME	
CUT	FILL	CUT	FILL
260	0		
		615	0
403	0		
		964	0
638	0		
		1505	0
987	0		

STATE ROUTE 241

241XX5

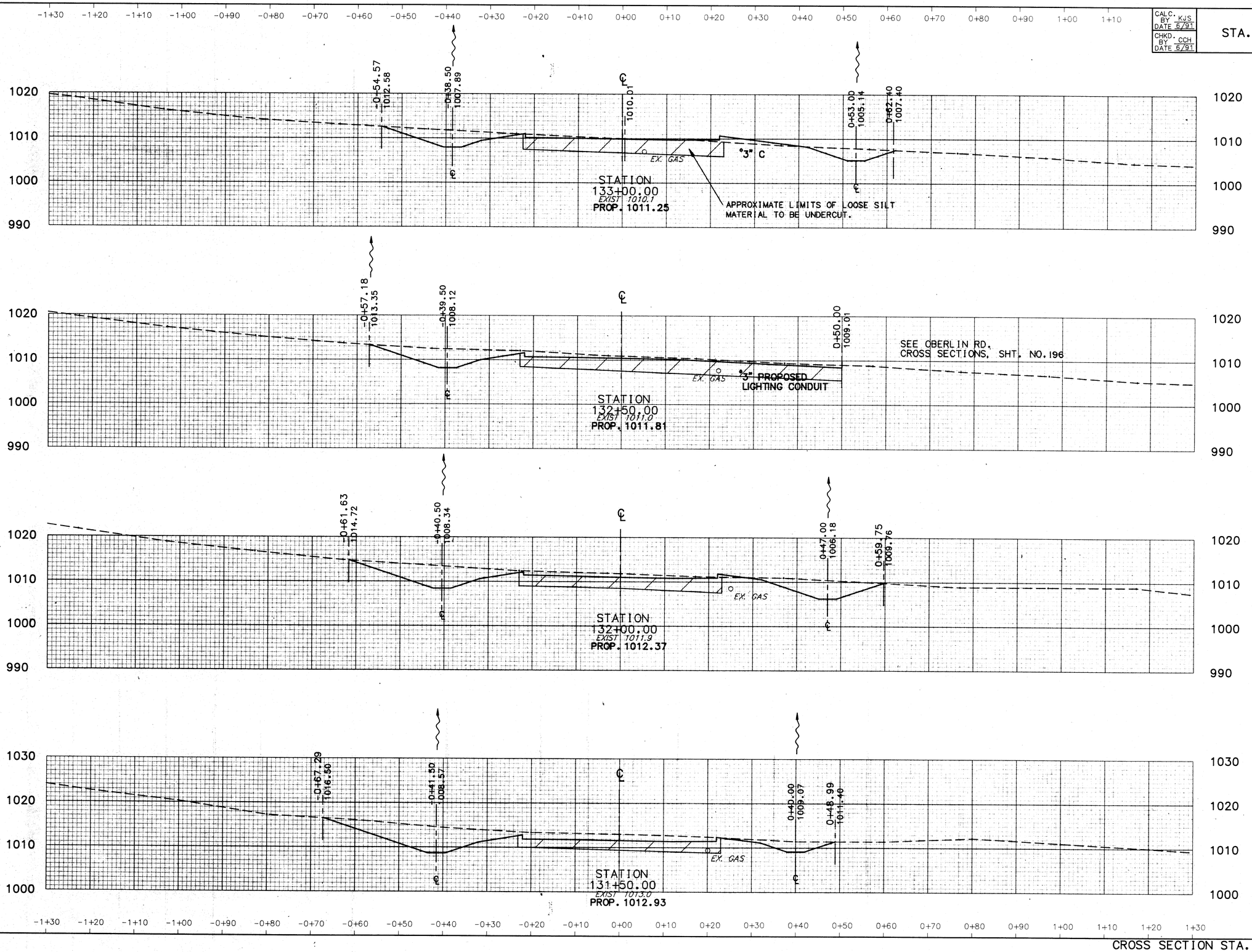
CROSS SECTION STA. 129+50 TO STA. 131+00

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

145/303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
118	14		
		235	13
135	0		
		331	2
222	2		
		436	2
248	0		
		472	0

241XX6

CROSS SECTION STA. 131+50 TO STA. 133+00

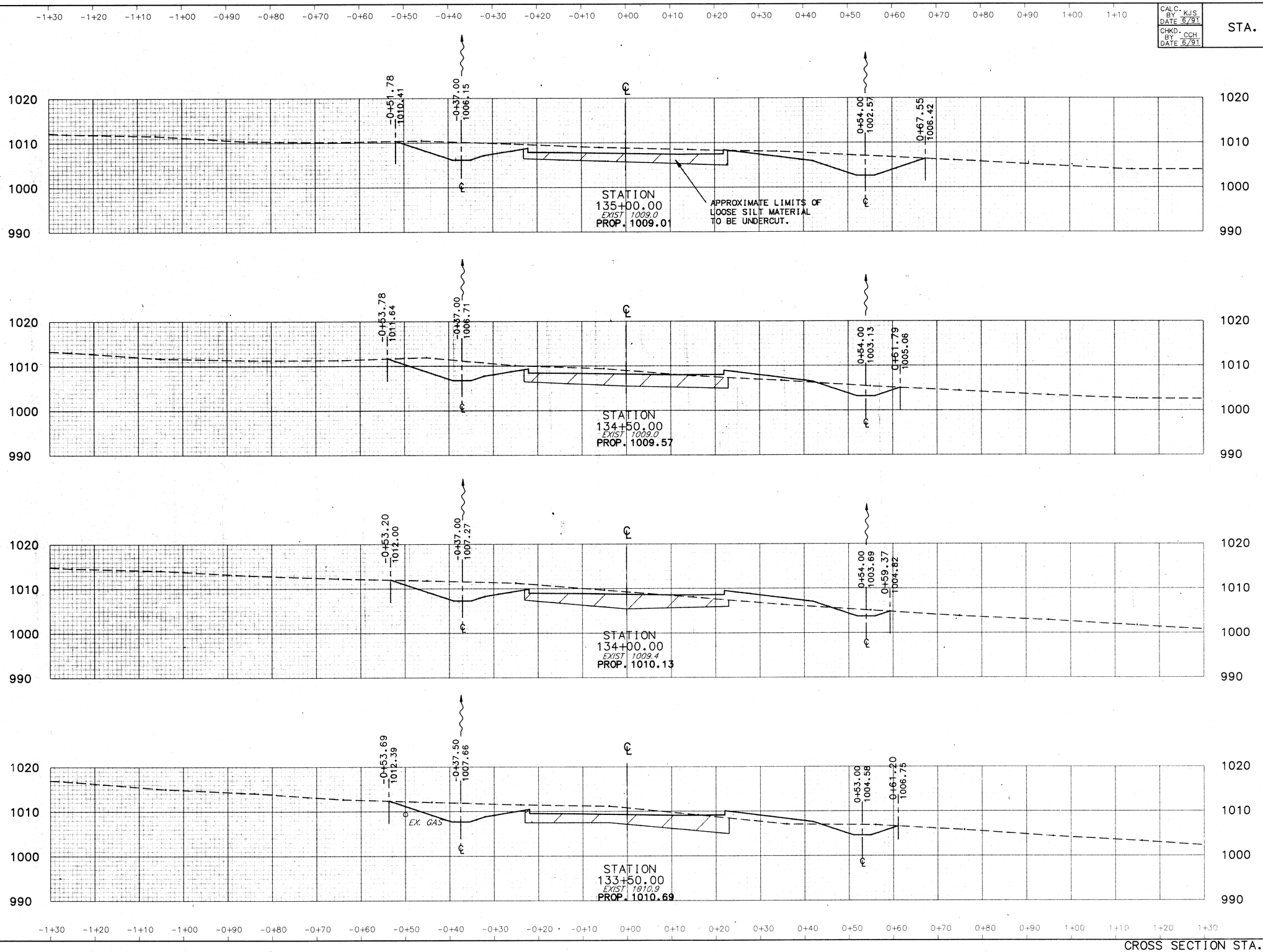
STATE ROUTE 241

CALC. BY KJS DATE 6/9T
CHKD. BY CCH DATE 6/9T

STA. - 241 - 4.22

OHIO
FHWA REGION 5

146
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
231	0		
		356	19
153	21		
		266	57
134	41		
		279	62
167	27		
		264	38

STATE ROUTE 241

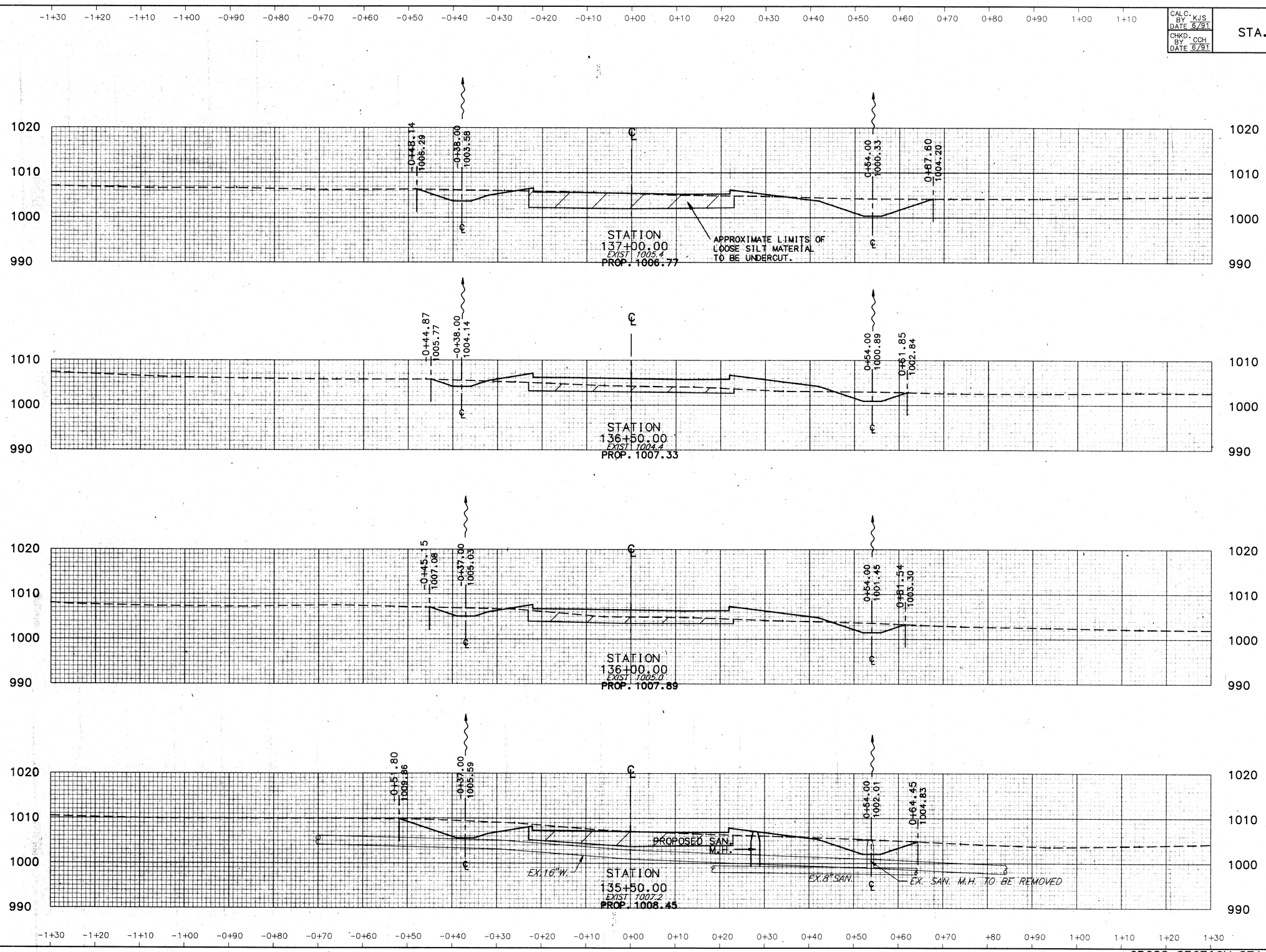
CROSS SECTION STA. 133+50 TO STA. 135+00

CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

147
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
105	13		
		129	119
33	116		
		70	195
41	94		
		164	102
135	16		
		340	15

241XXB

STATE ROUTE 241

CROSS SECTION STA. 135+50 TO STA. 137+00

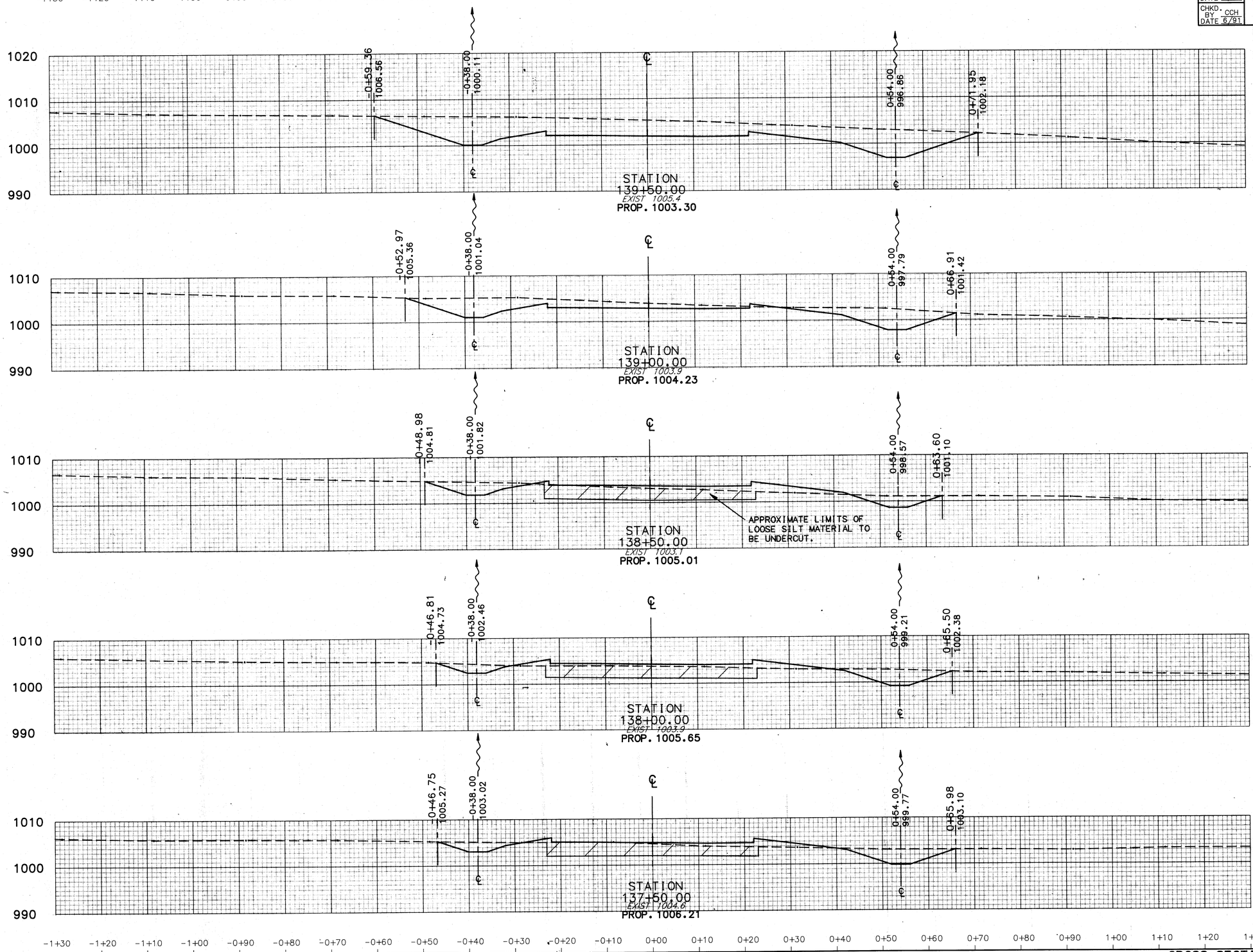
CALC. BY KJS DATE 6/91
CHKD. BY CCH DATE 6/91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

148
303

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



END AREA		VOLUME	
CUT	FILL	CUT	FILL
473	0		
		641	2
220	2		
		270	43
72	45		
		132	76
70	37		
		136	62
77	31		
		169	40

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

241IX19

STATE ROUTE 241

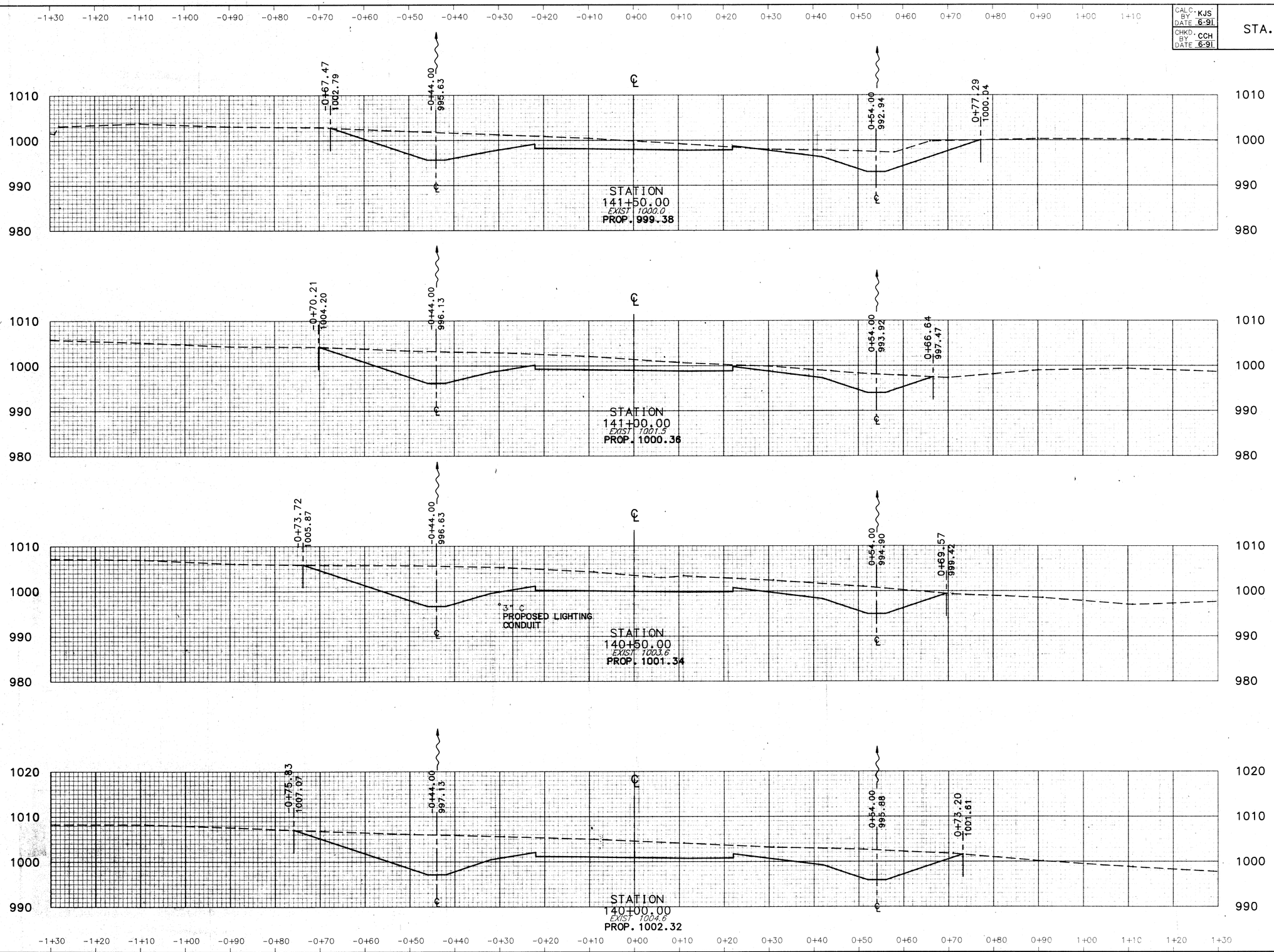
CROSS SECTION STA. 137+50 TO STA. 139+50

CALC BY KJS DATE 6-91
CHKD BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
376	1		
		730	0
412	0		
		960	0
625	0		
		1171	0
640	0		
		1031	0

241XX10

STATE ROUTE 241

CROSS SECTION STA. 140+00 TO STA. 141+50

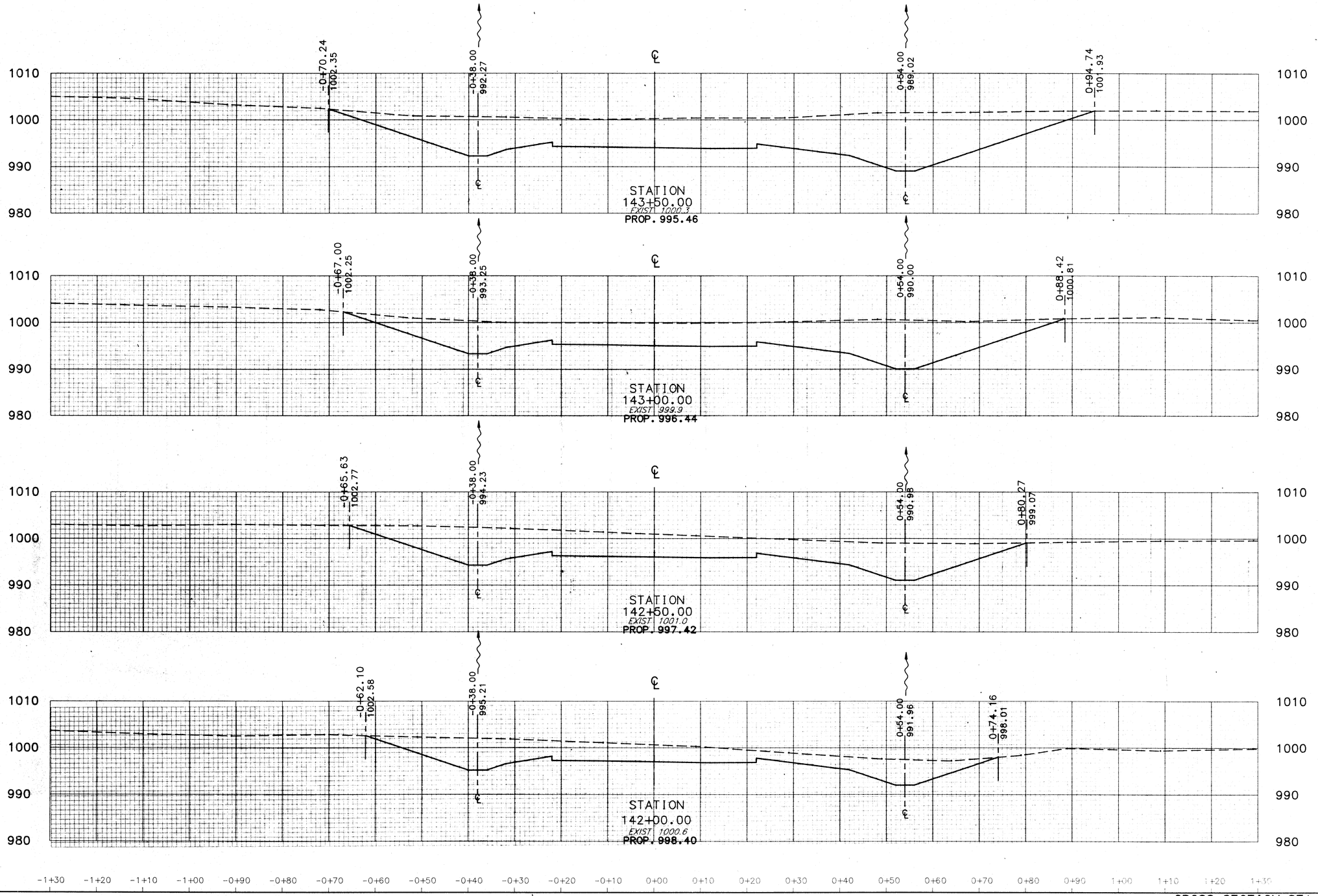
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

150
303

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2460	0
1067	0		
		1745	0
818	0		
		1429	0
725	0		
		1125	0
490	0		
		802	0

STATE ROUTE 241

241XQ1

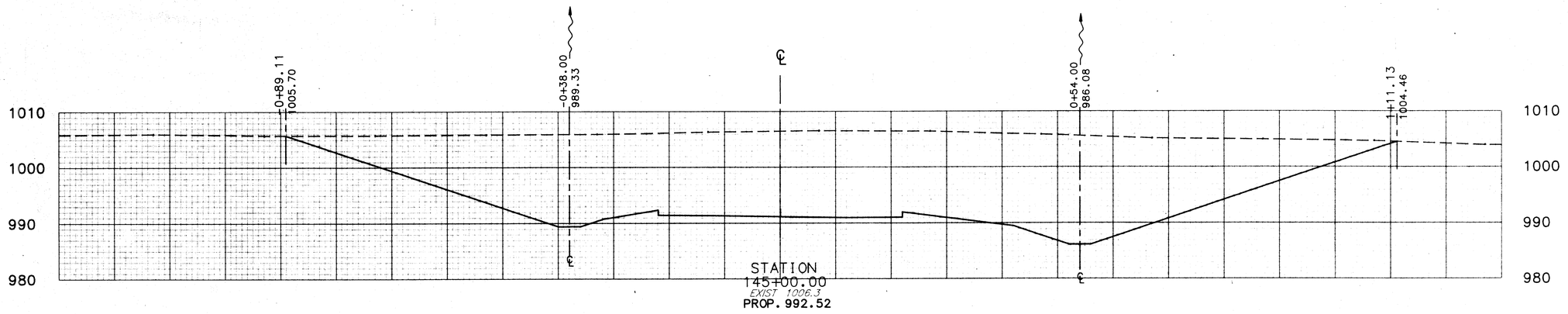
CROSS SECTION STA. 142+00 TO STA. 143+50

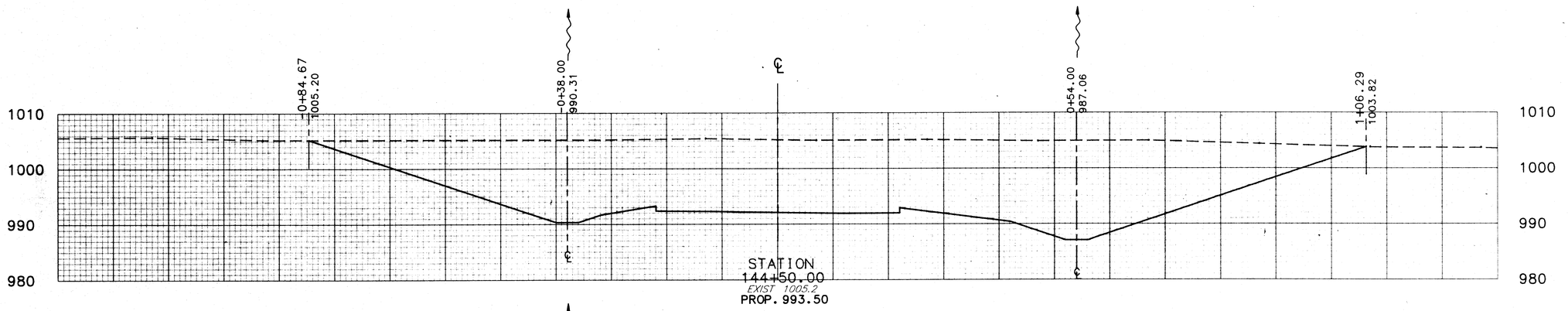
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

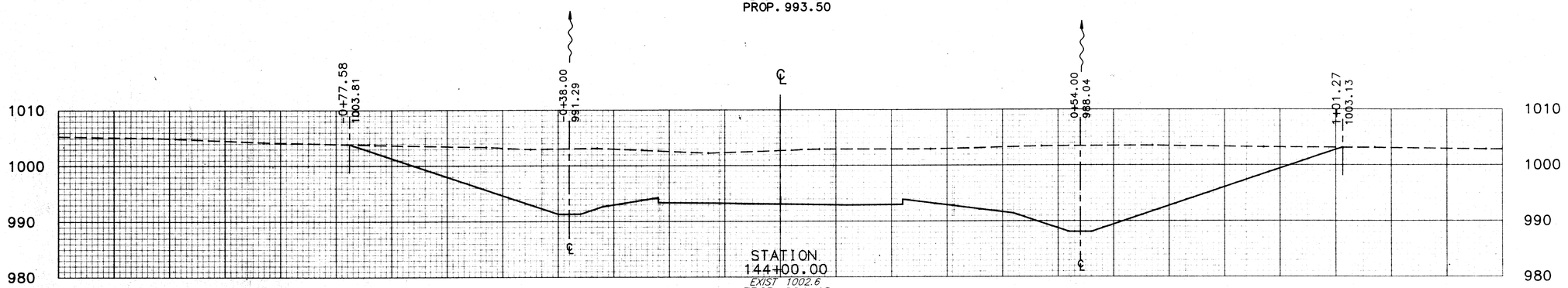
STA. - 241 - 4.22

OHIO
FHWA REGION 5

151
303







END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4833	0
2462	0		
		4246	0
2123	0		
		3438	0
1589	0		

STATE ROUTE 241

141XQ2

CROSS SECTION STA. 144+00 TO STA. 145+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

152/303

END AREA		VOLUME	
CUT	FILL	CUT	FILL
2642	0		
		5080	0
2844	0		
		5187	0
2758	0		

STATE ROUTE 241

\241XQ3

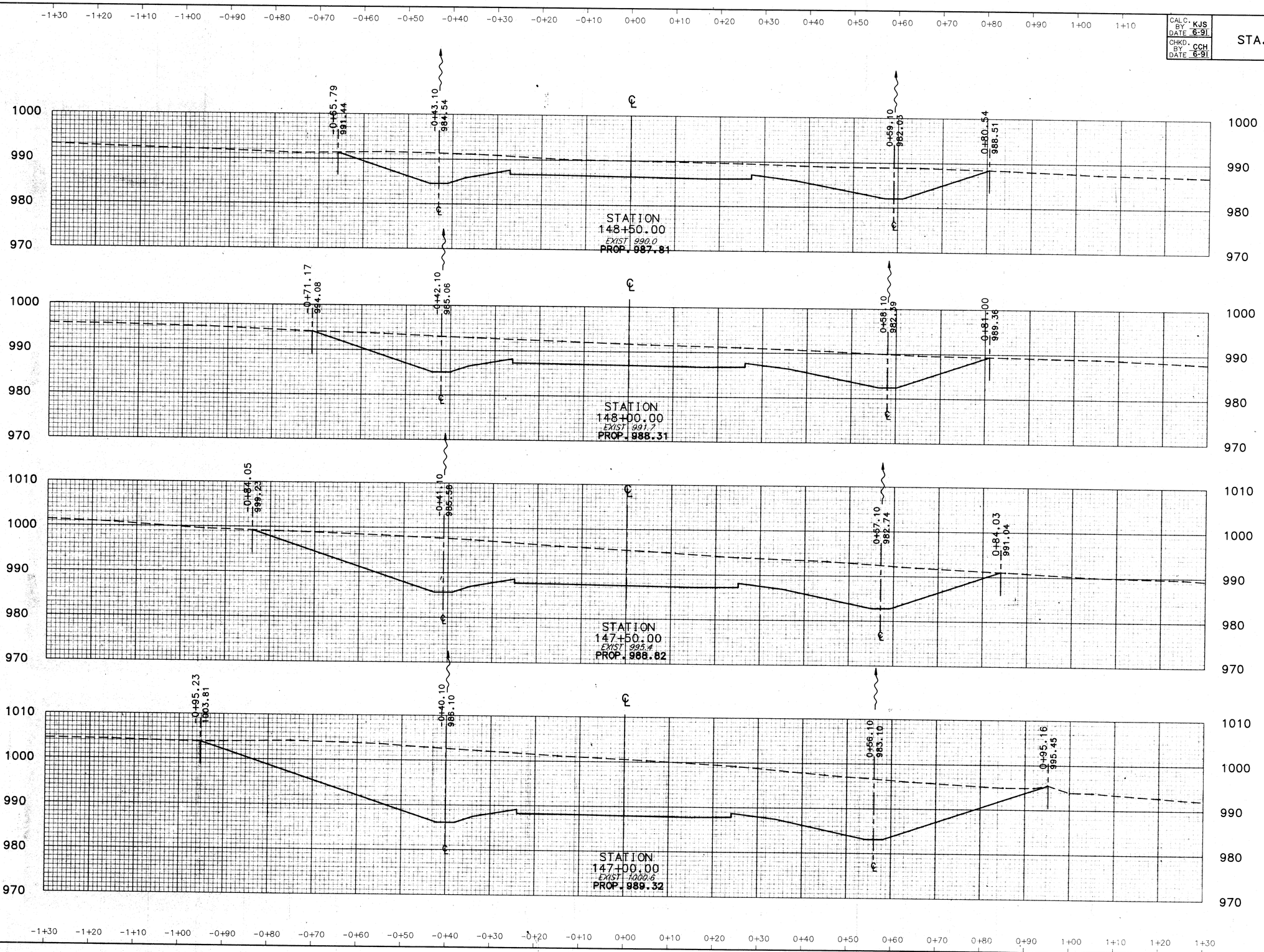
CROSS SECTION STA. 145+50 TO STA. 146+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

153
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
601	0		
		1254	0
752	0		
		1838	0
1232	0		
		2980	0
1986	0		
		4286	0

241XQ4

STATE ROUTE 241

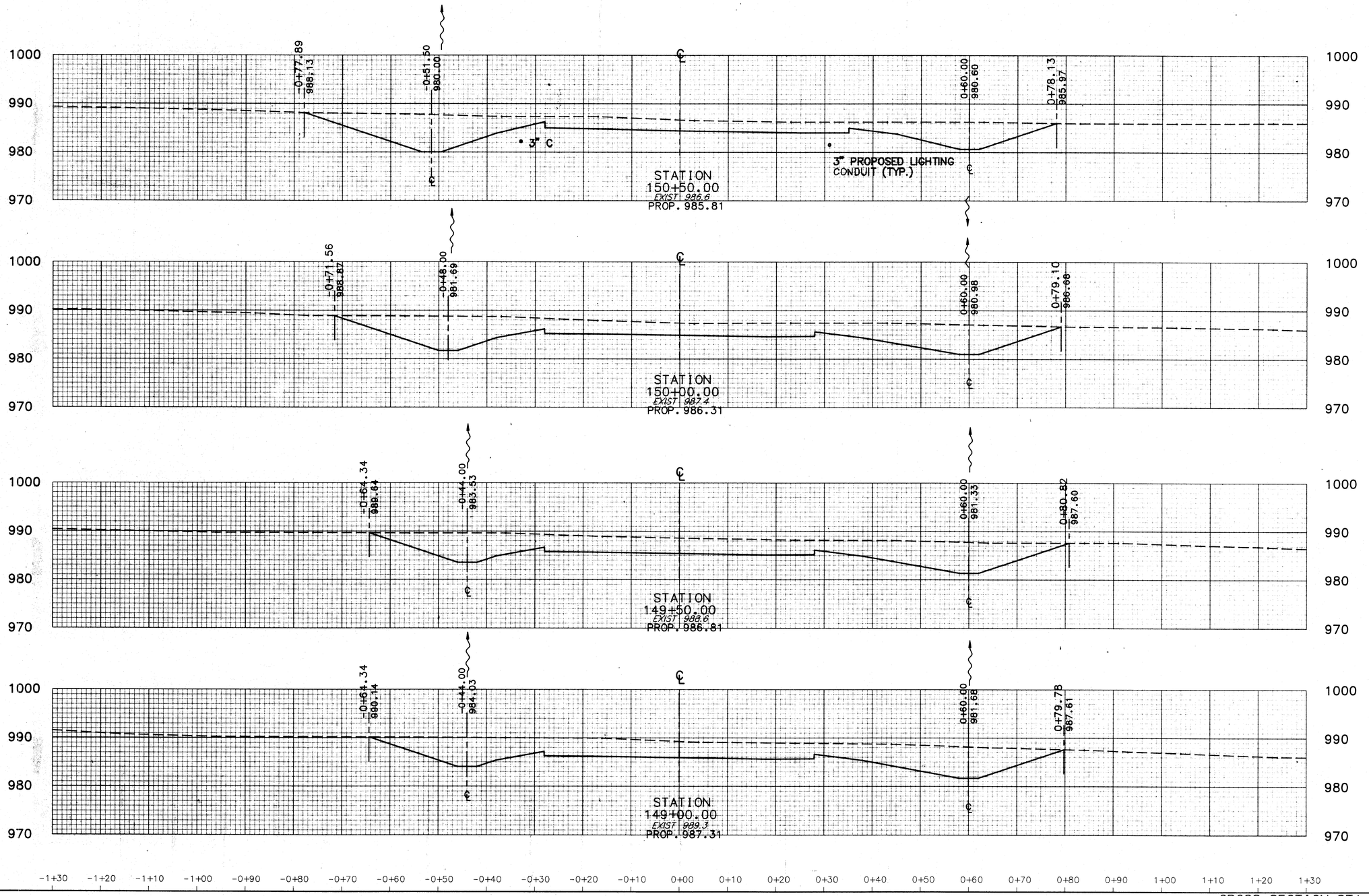
CROSS SECTION STA. 147+00 TO STA. 148+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

154
303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		720	0
518	0		
		979	0
540	0		
		1001	0
542	0		
		1016	0
556	0		
		1072	0

241X05

STATE ROUTE 241

CROSS SECTION STA. 149+00 TO STA. 150+50

CALC. BY KJS DATE 6-9-1
CHKD. BY CCH DATE 6-9-1

STA. - 241 - 4.22

OHIO
FHWA REGION 5

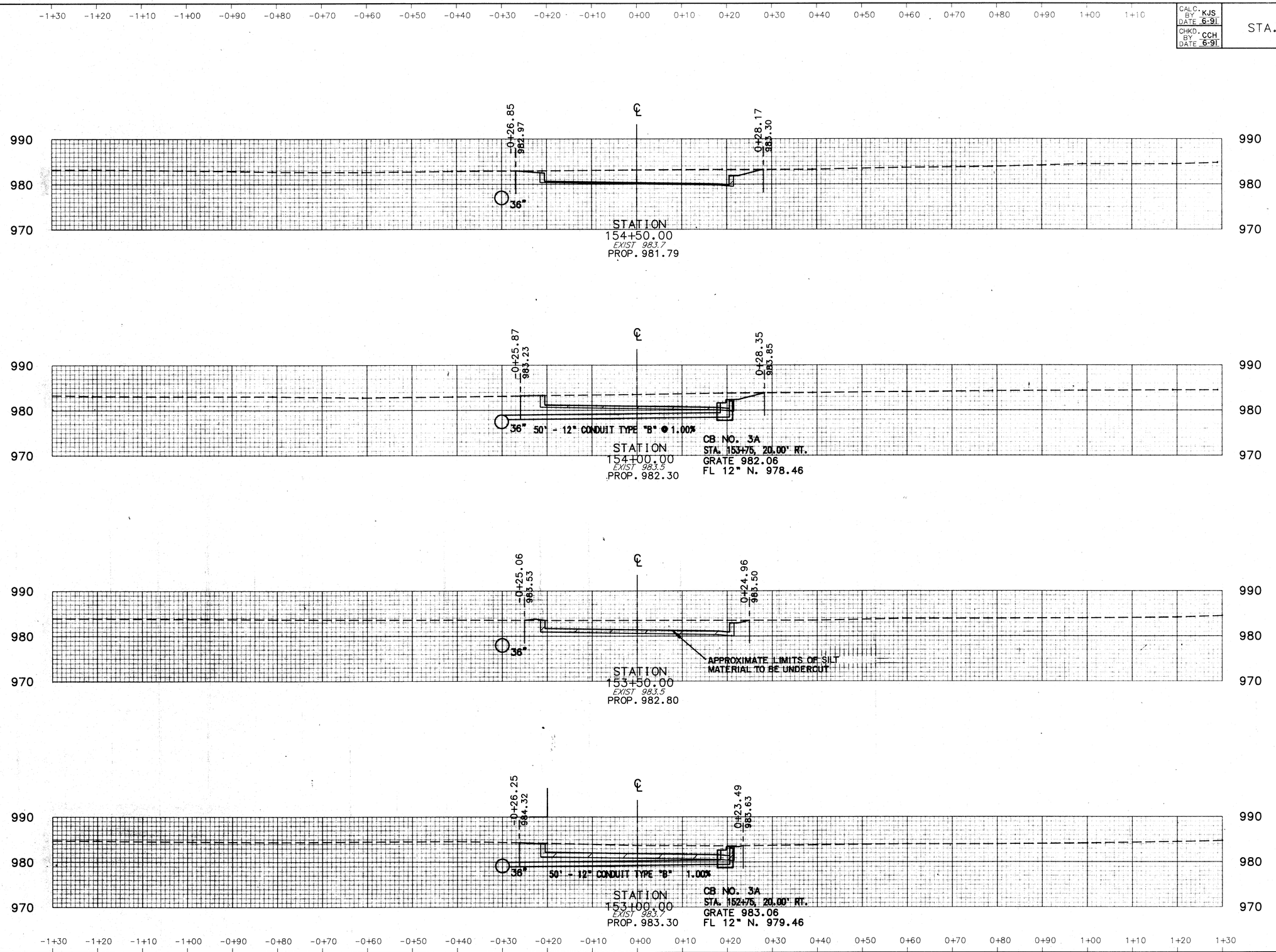
155/303

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		170	0
93	0		
		152	0
70	0		
		138	0
78	0		
		313	0
259	0		

STATE ROUTE 241

241X06

CROSS SECTION STA. 151+00 TO STA. 152+50



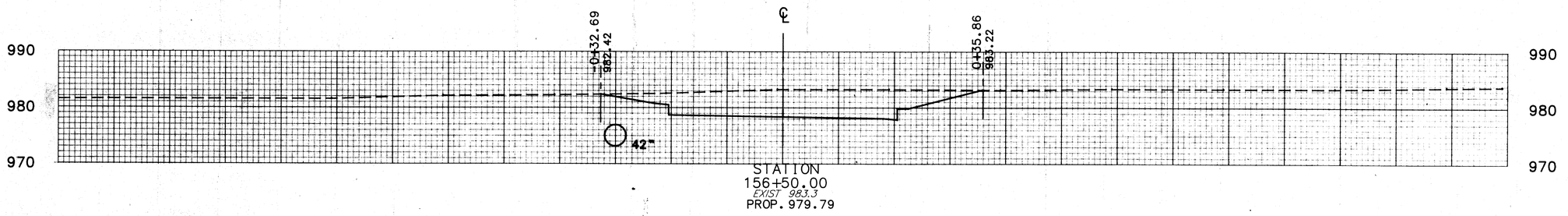
END AREA		VOLUME	
CUT	FILL	CUT	FILL
133	0		
		241	0
127	0		
		208	0
98	0		
		174	0
90	0		

241X07

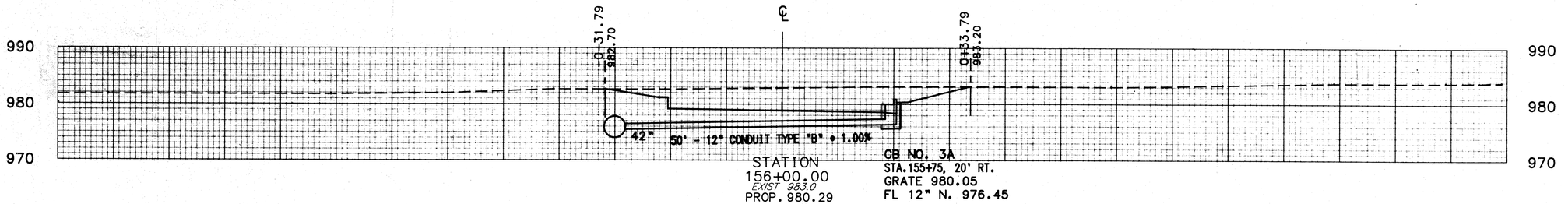
STATE ROUTE 241

CROSS SECTION STA. 153+00 TO STA. 154+50

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

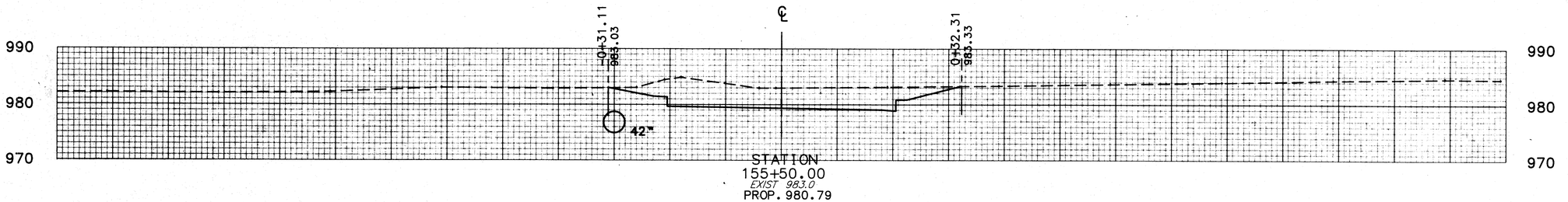


STATION
156+50.00
EXIST 983.3
PROP. 979.79

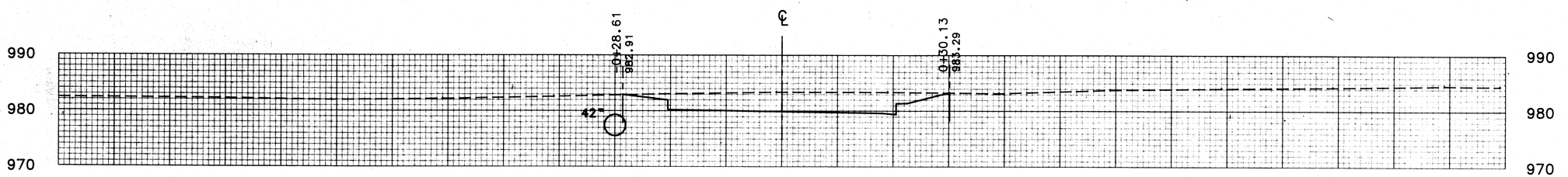


STATION
156+00.00
EXIST 983.0
PROP. 980.29

CB NO. 3A
STA.155+75, 20' RT.
GRATE 980.05
FL 12" N. 976.45



STATION
155+50.00
EXIST 983.0
PROP. 980.79



STATION
155+00.00
EXIST 983.4
PROP. 981.29

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		461	0
251	0		
		428	0
211	0		
		390	0
211	0		
		351	0
169	0		
		280	0

241X08

CROSS SECTION STA. 155+00 TO STA. 156+50

STATE ROUTE 241

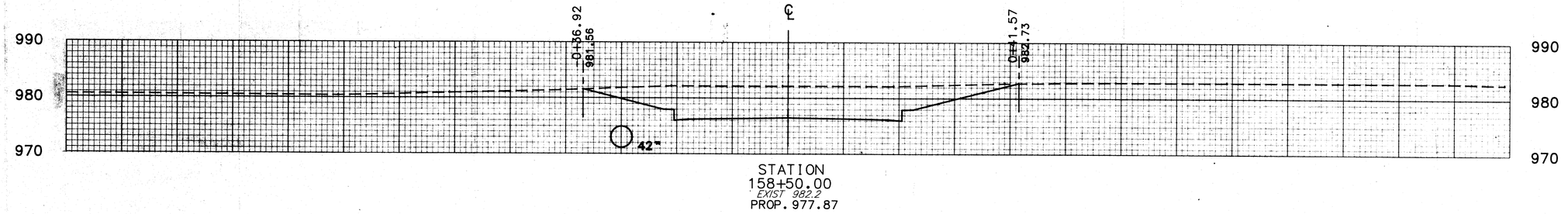
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

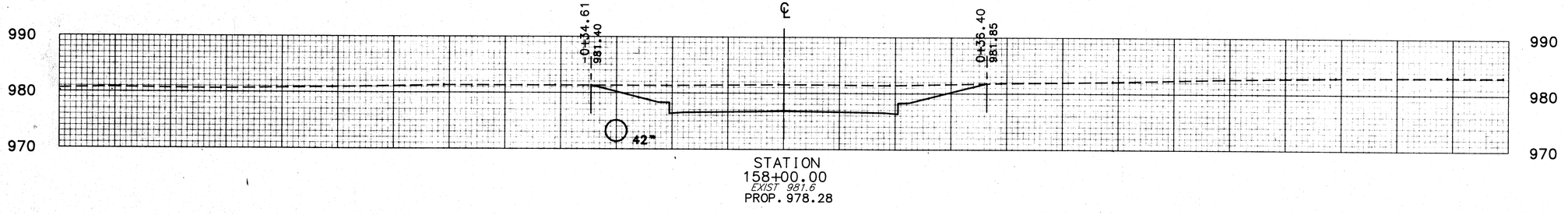
STA. - 241 - 4.22

OHIO
FHWA REGION 5

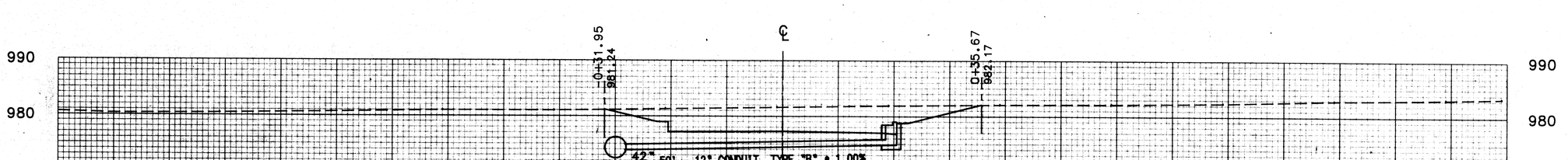
158
303



STATION
158+50.00
EXIST 982.2
PROP. 977.87

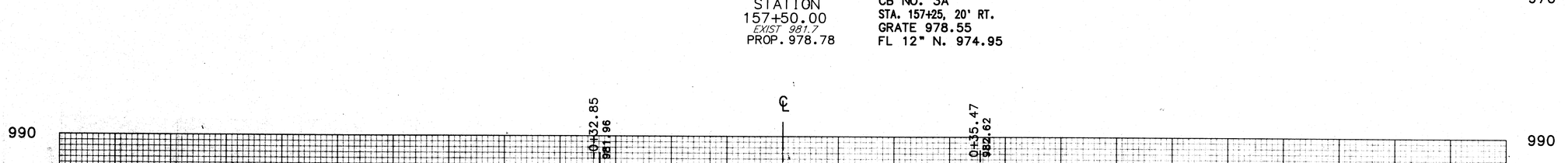


STATION
158+00.00
EXIST 981.6
PROP. 978.28



STATION
157+50.00
EXIST 981.7
PROP. 978.78

CB NO. 3A
STA. 157+25, 20' RT.
GRATE 978.55
FL 12" N. 974.95



STATION
157+00.00
EXIST 982.7
PROP. 979.29

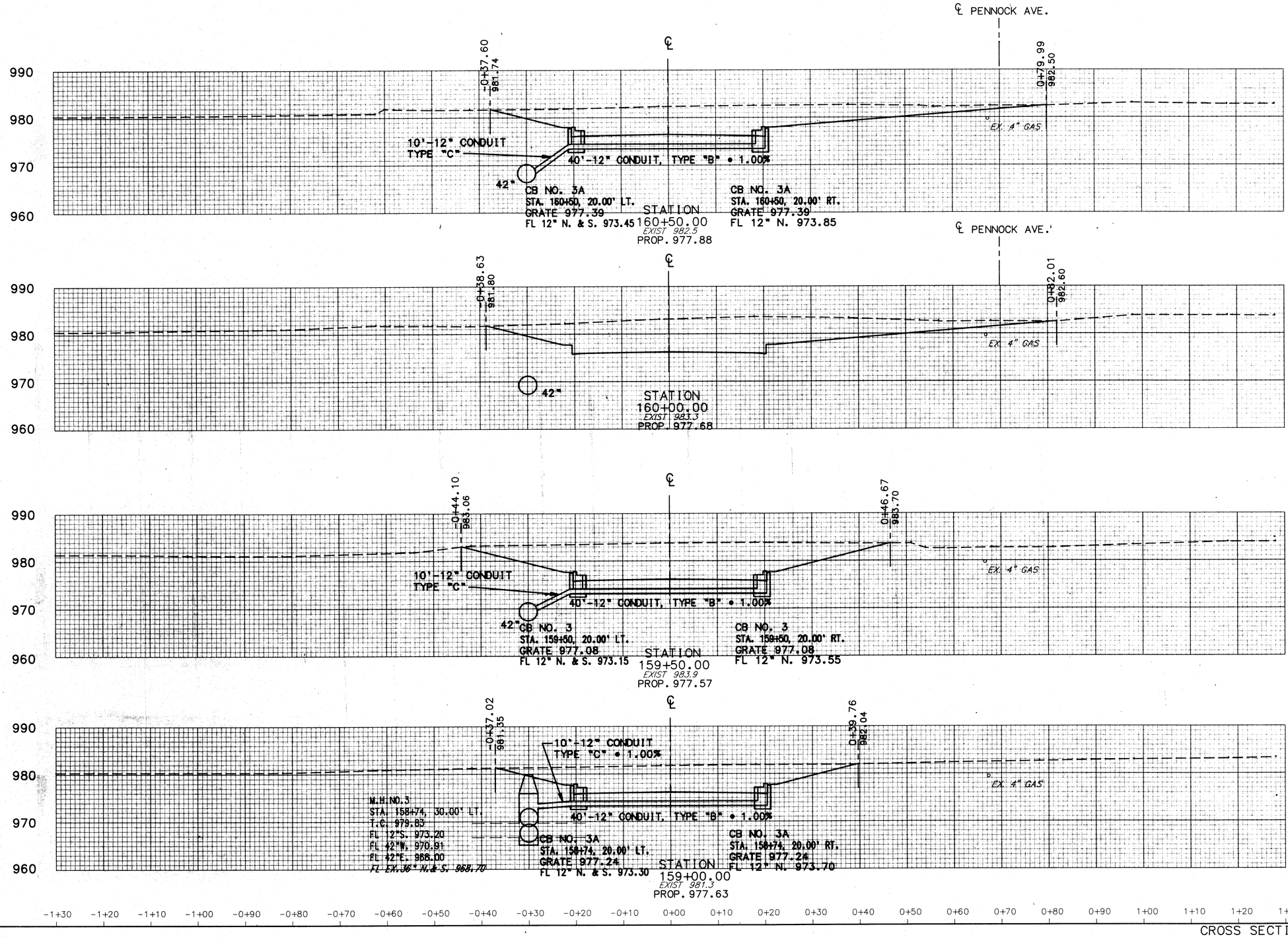
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME	
CUT	FILL	CUT	FILL
331	0		
		540	0
251	0		
		445	0
230	0		
		441	0
247	0		

241X09

STATE ROUTE 241

CROSS SECTION STA. 157+00 TO STA. 158+50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
429	0		
		873	0
515	0		
		924	0
483	0		
		740	0
316	0		
		600	0

STATE ROUTE 241

241XQ10

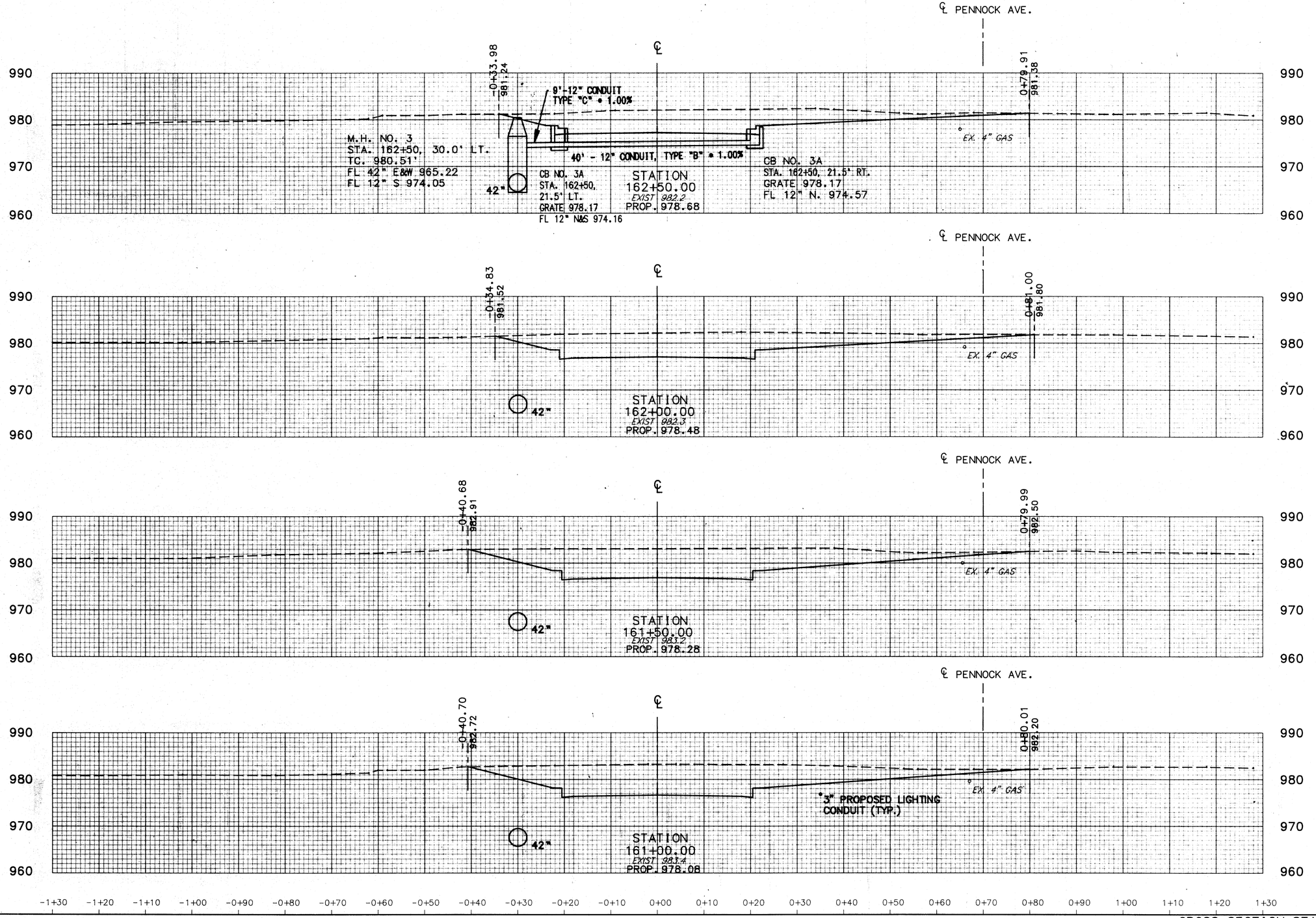
CROSS SECTION STA. 159+00 TO STA. 160+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

160/303

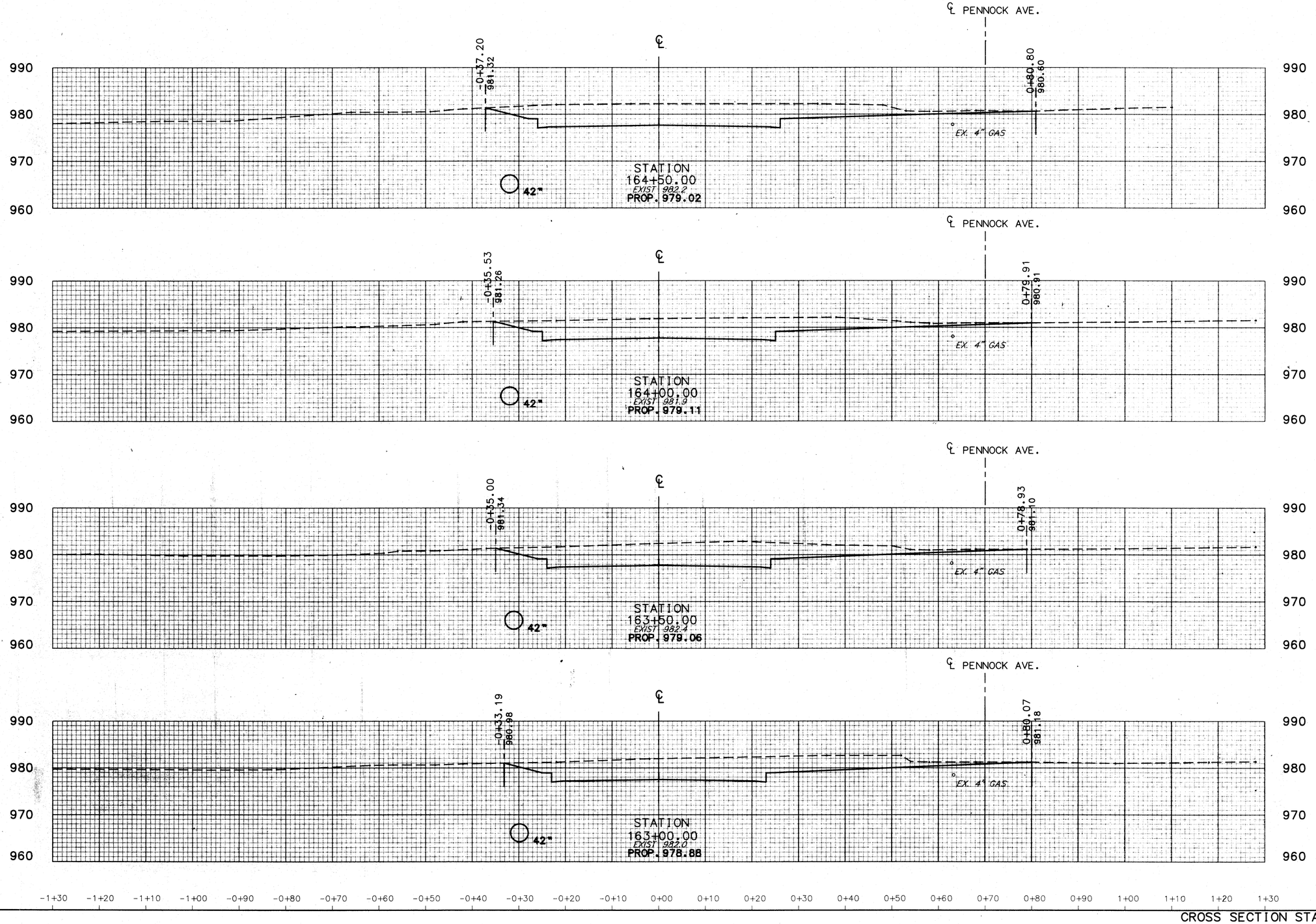


END AREA		VOLUME	
CUT	FILL	CUT	FILL
335	0		
		647	0
364	0		
		757	0
454	0		
		861	0
476	0		
		837	0

241XP1

STATE ROUTE 241

CROSS SECTION STA. 161+00 TO STA. 162+50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		646	0
348	0		
		603	0
303	0		
		587	0
331	0		
		615	0
333	0		
		618	0

241XP2

STATE ROUTE 241

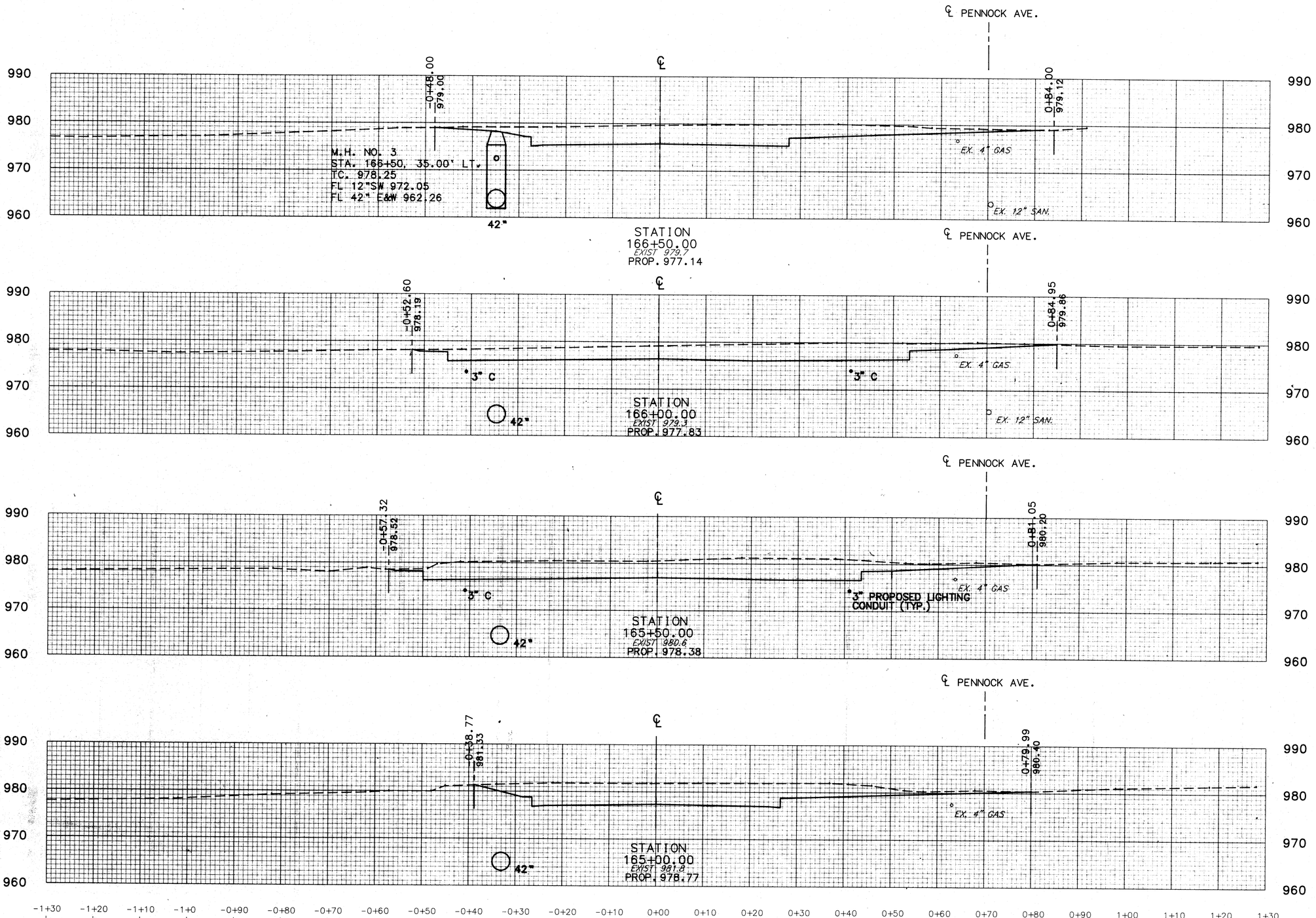
CROSS SECTION STA. 163+00 TO STA. 164+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

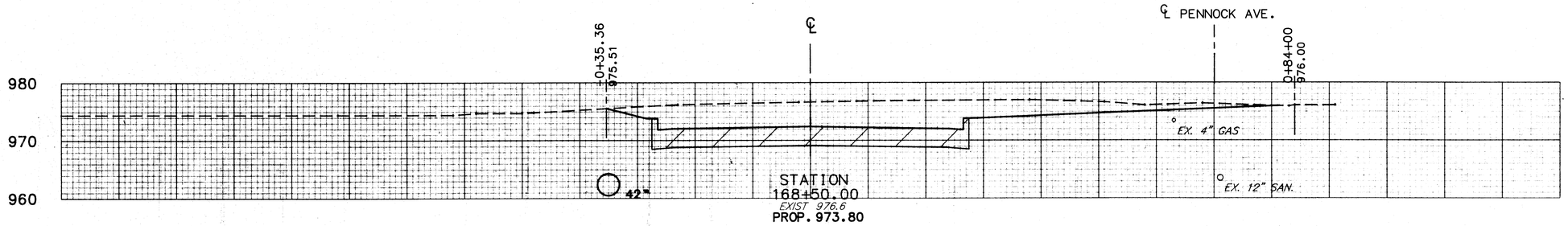


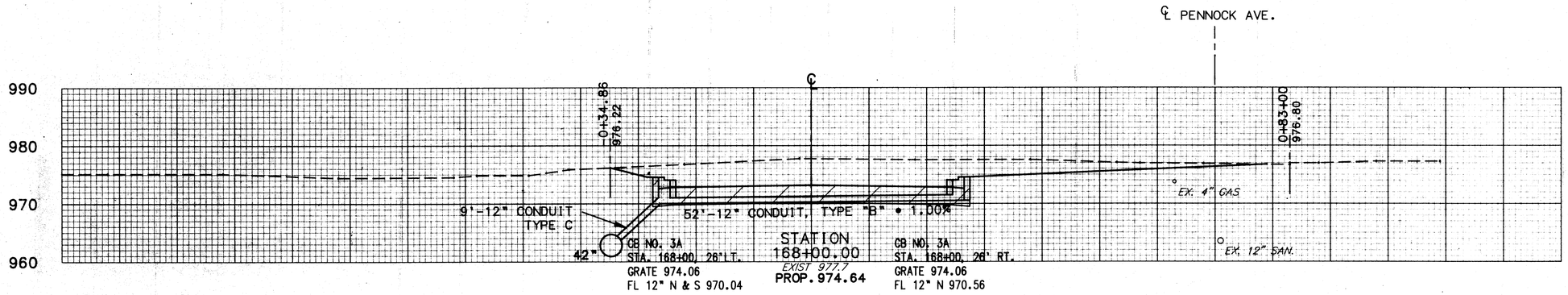
END AREA		VOLUME	
CUT	FILL	CUT	FILL
320	0		
		627	0
358	0		
		741	0
442	0		
		733	0
350	0		

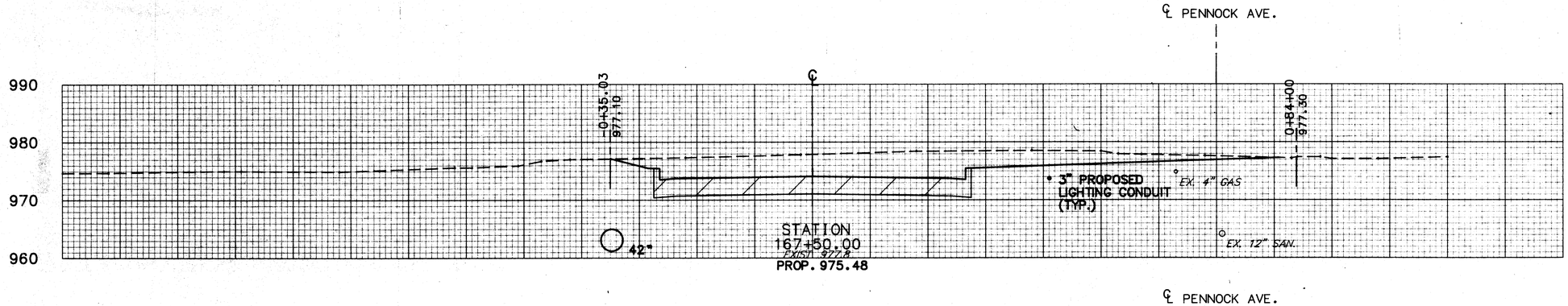
241XP3

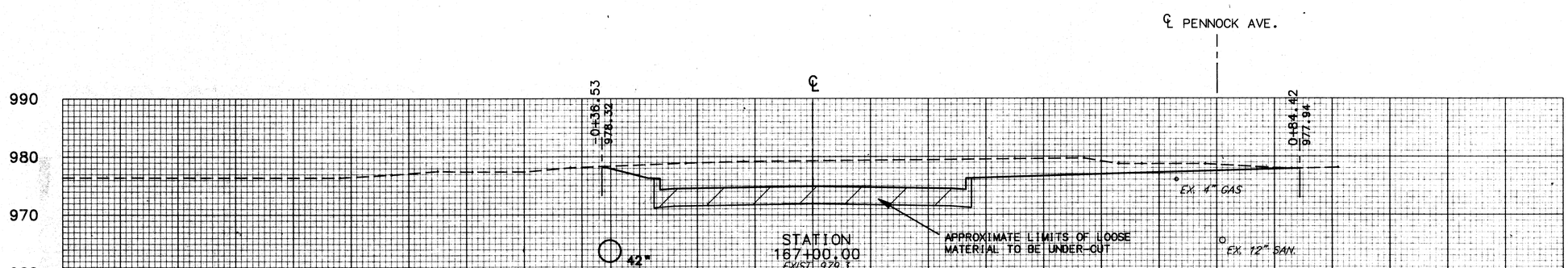
STATE ROUTE 241

CROSS SECTION STA. 165+00 TO STA. 166+50









-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME	
CUT	FILL	CUT	FILL
339	0		
		616	0
326	0		
		592	0
313	0		
		627	0
365	0		
		633	0

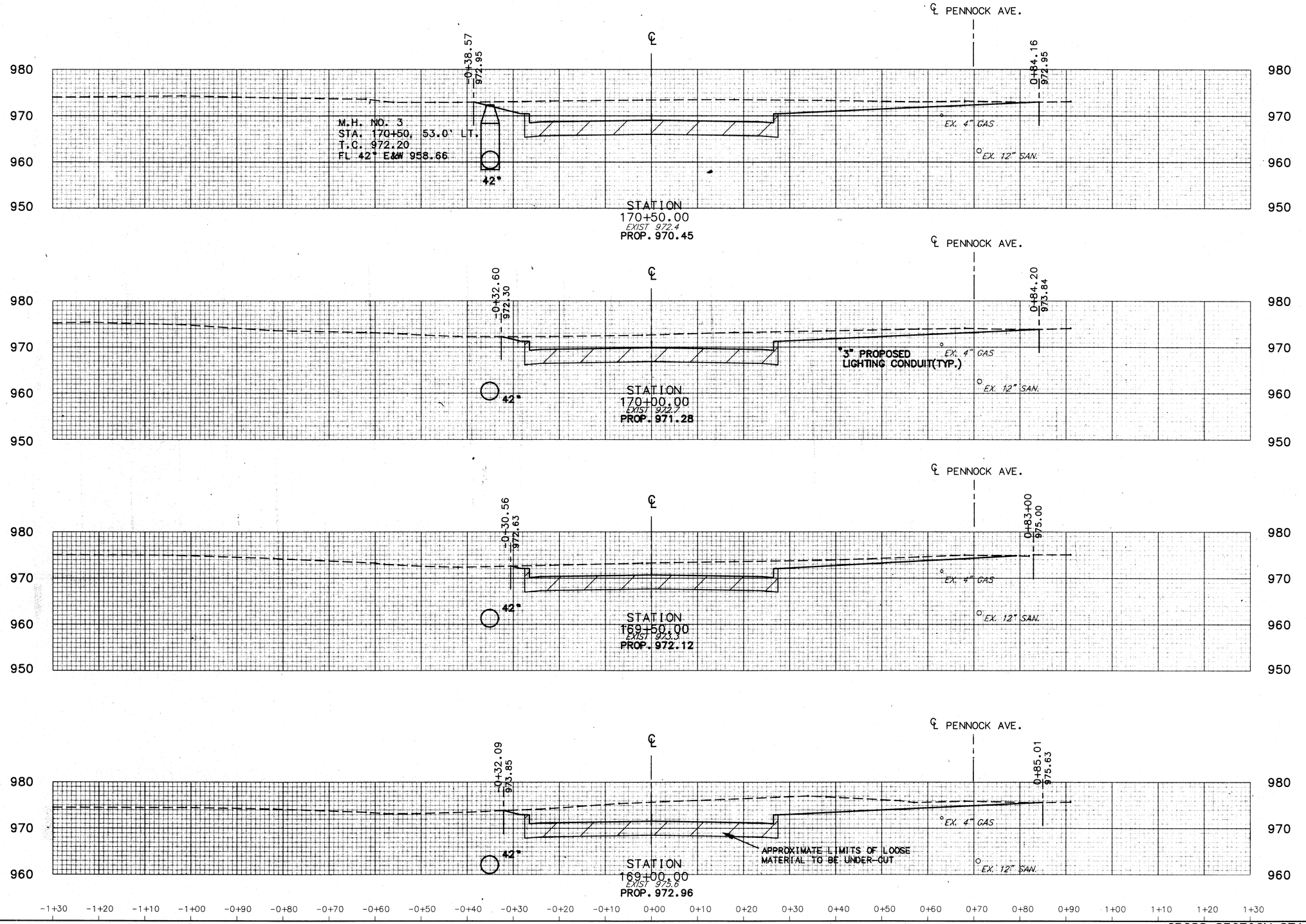
241XP4

STATF ROUTF 241

CROSS SECTION STA. 167+00 TO STA. 168+50

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

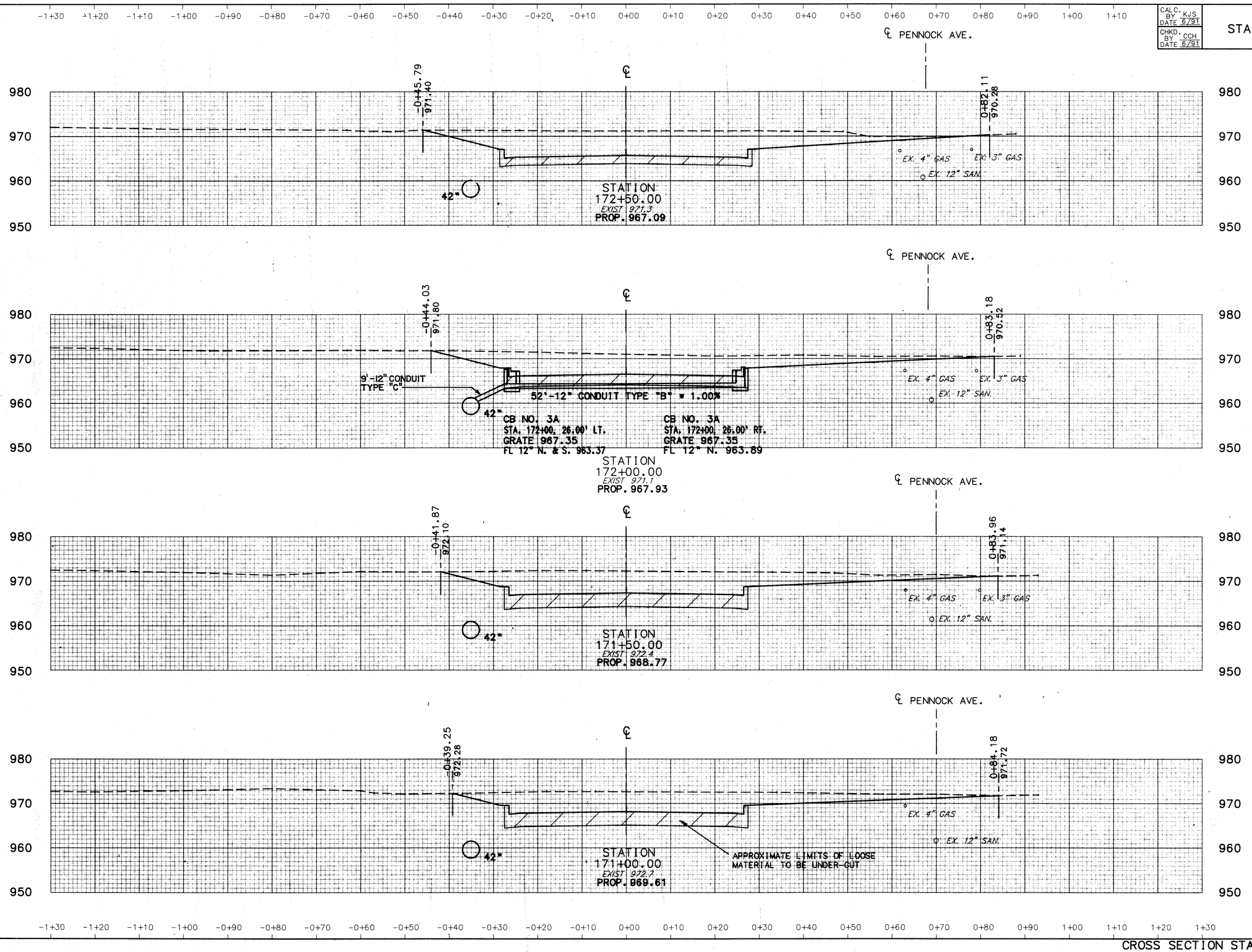


END AREA		VOLUME	
CUT	FILL	CUT	FILL
		654	0
347	0		
		544	0
239	0		
		408	0
201	0		
		501	0
339	0		
		629	0

STATE ROUTE 241

241XP5

CROSS SECTION STA. 169+00 TO 170+50



END AREA		VOLUME	
CUT	FILL	CUT	FILL
455	0		
		764	0
371	0		
		714	0
401	0		
		703	0
358	0		

241XP6

CROSS SECTION STA. 171+00 TO STA. 172+50

STATE ROUTE 241

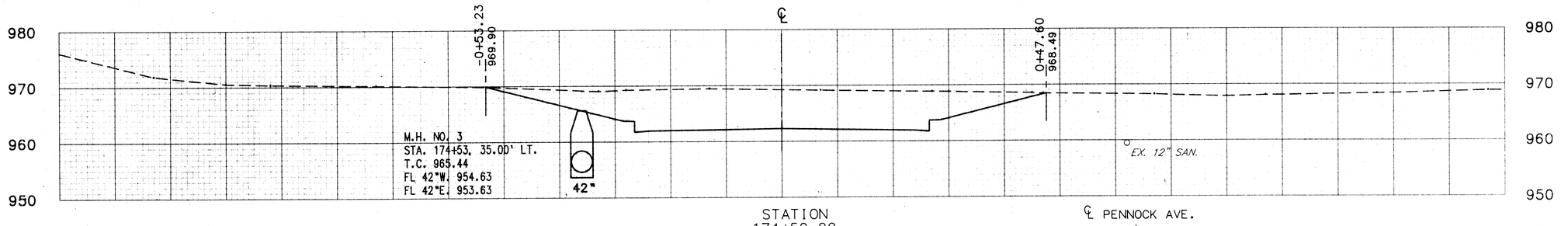
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

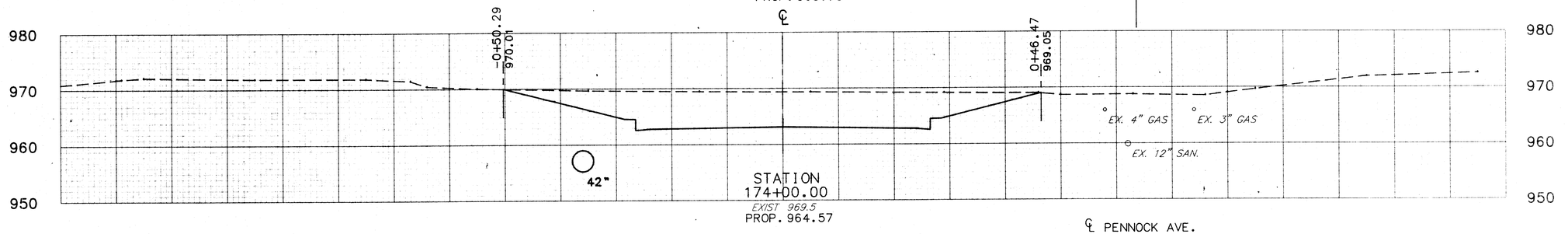
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

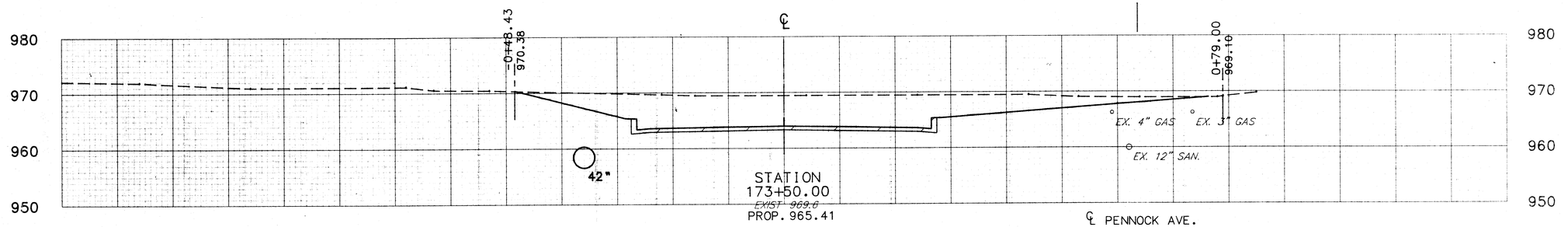
STA. - 241 - 4.22

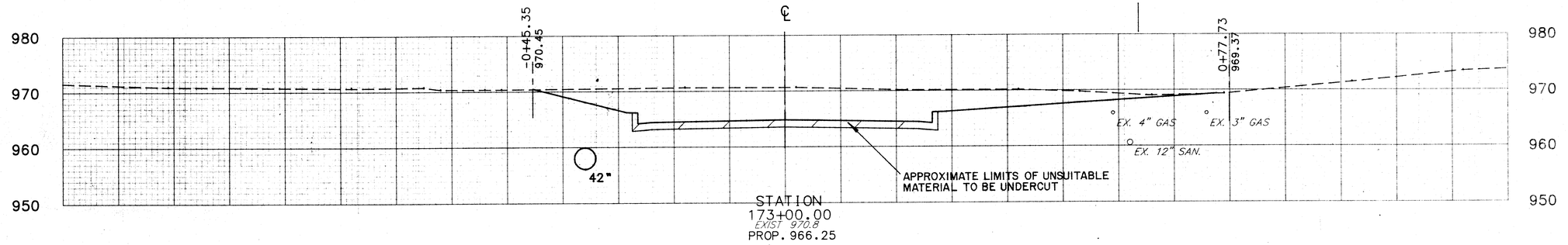
OHIO
FHWA REGION 5

166
303









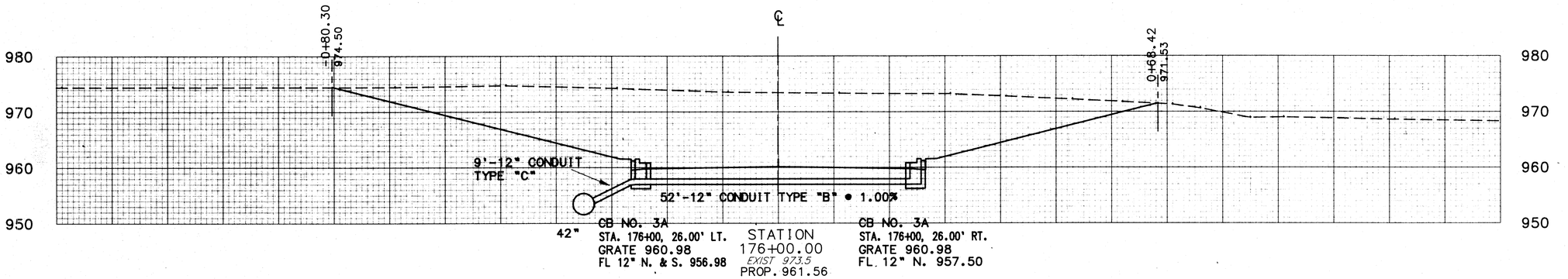
END AREA		VOLUME	
CUT	FILL	CUT	FILL
516	0		
		904	0
460	0		
		856	0
464	0		
		859	0
464	0		
		850	0

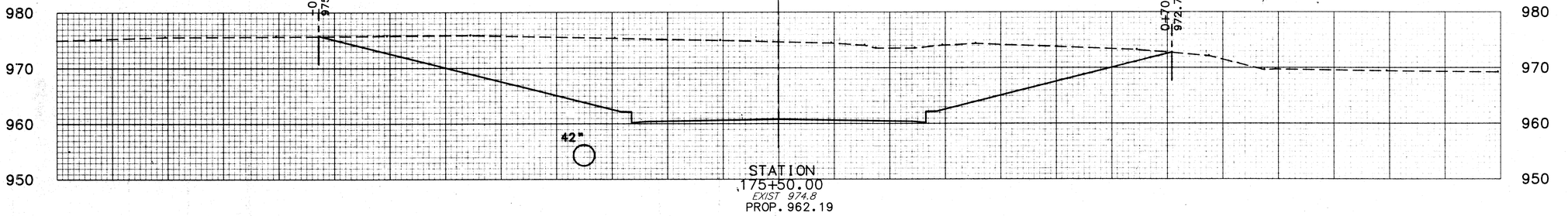
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

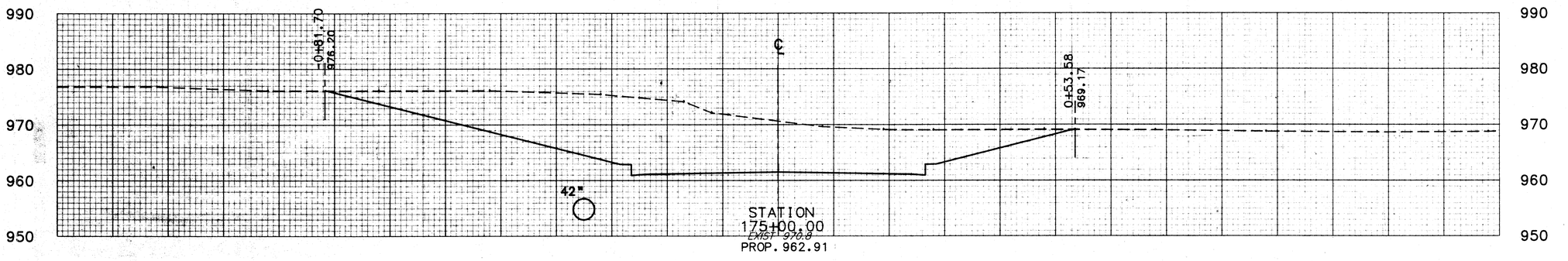
241XP7

CROSS SECTION STA. 173+00 TO STA. 174+50

STATE ROUTE 241







-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

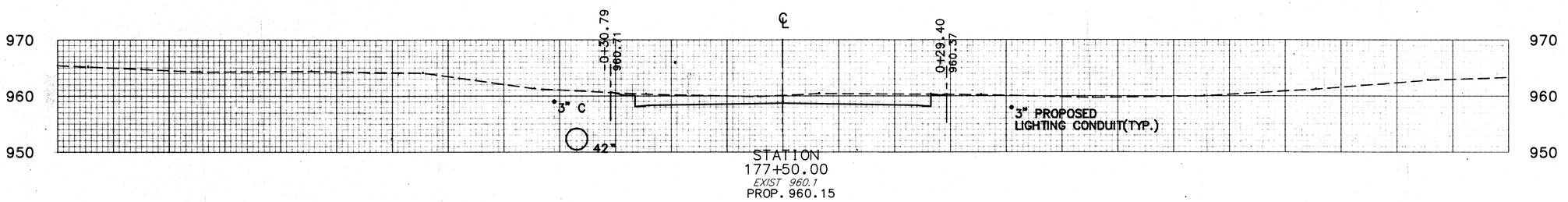
END AREA		VOLUME	
CUT	FILL	CUT	FILL
		2338	0
1350	0		
		2574	0
1429	0		
		2238	0
988	0		
		1393	0

241XP8

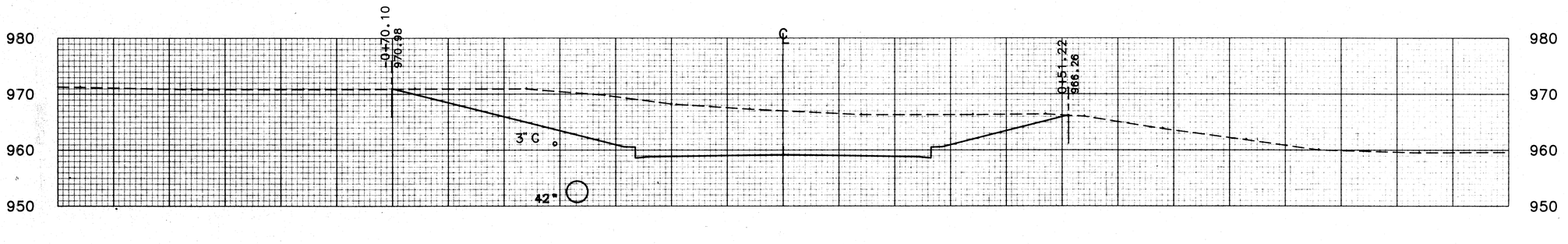
STATE ROUTE 241

CROSS SECTION STA. 175+00 TO STA. 176+00

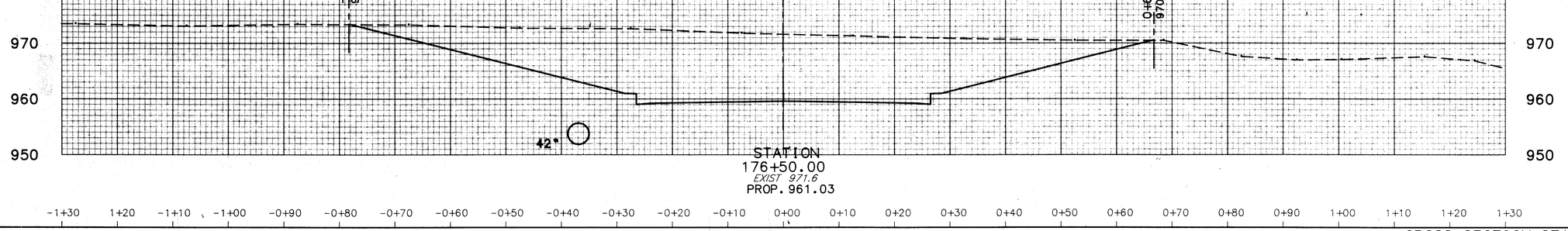
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



STATION
177+50.00
EXIST 960.1
PROP. 960.15



STATION
177+00.00
EXIST 967.0
PROP. 960.59



STATION
176+50.00
EXIST 971.6
PROP. 961.03

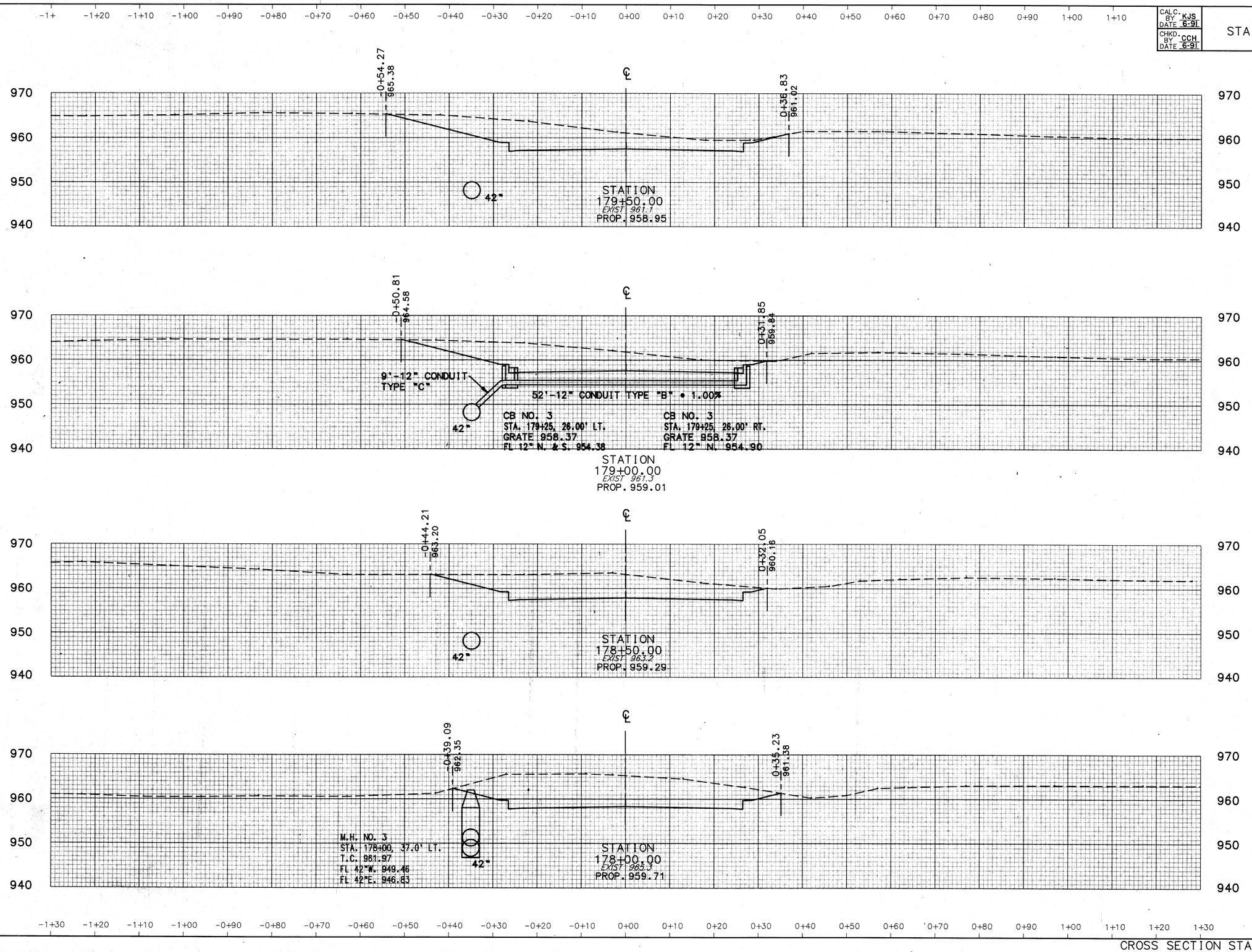
-1+30 1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		478	0
97	0		
		777	0
743	0		
		1775	0
1175	0		

241XP9

STATE ROUTE 241

CROSS SECTION STA. 176+50 TO STA. 177+50

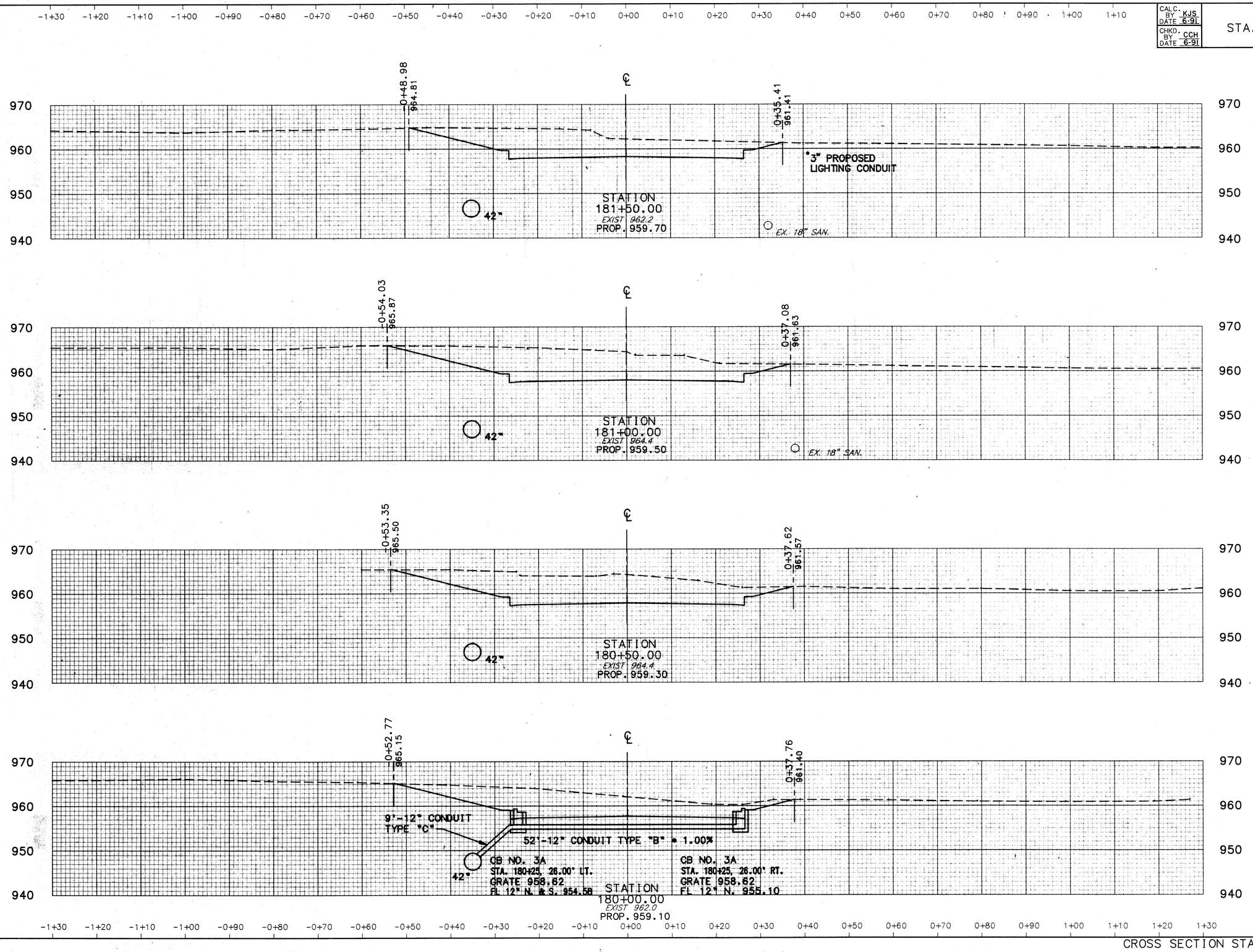


END AREA		VOLUME	
CUT	FILL	CUT	FILL
306	0		
		569	0
309	0		
		570	0
307	0		
		674	0
420	0		

241XP10

STATE ROUTE 241

CROSS SECTION STA. 178+00 TO STA. 179+50



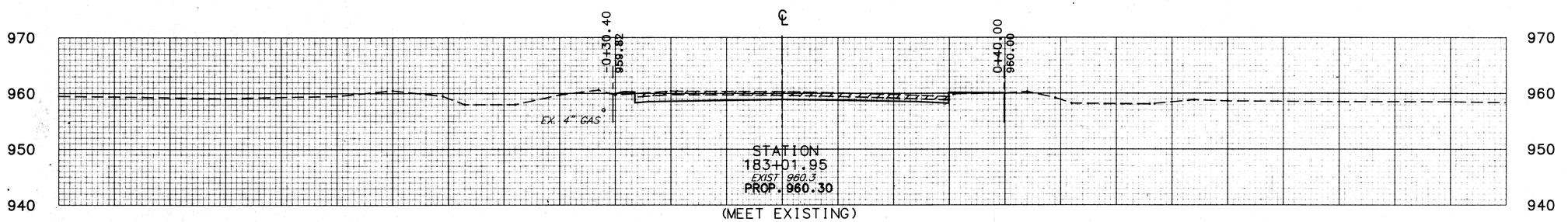
END AREA		VOLUME	
CUT	FILL	CUT	FILL
336	0		
		712	0
433	0		
		788	0
418	0		
		697	0
334	0		
		593	0

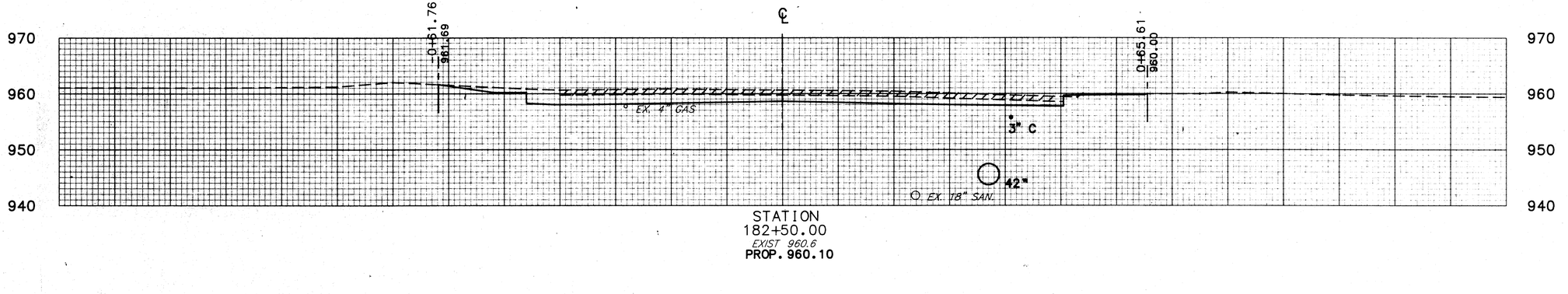
241XP11

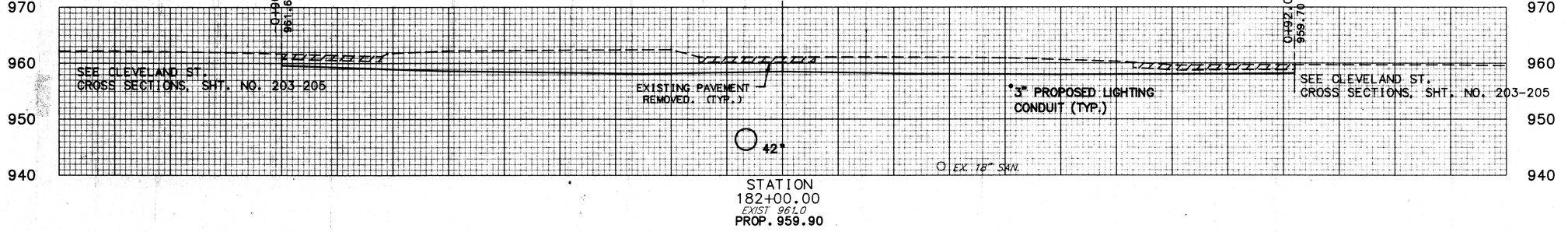
STATE ROUTE 241

CROSS SECTION STA. 180+00 TO STA. 181+50

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10







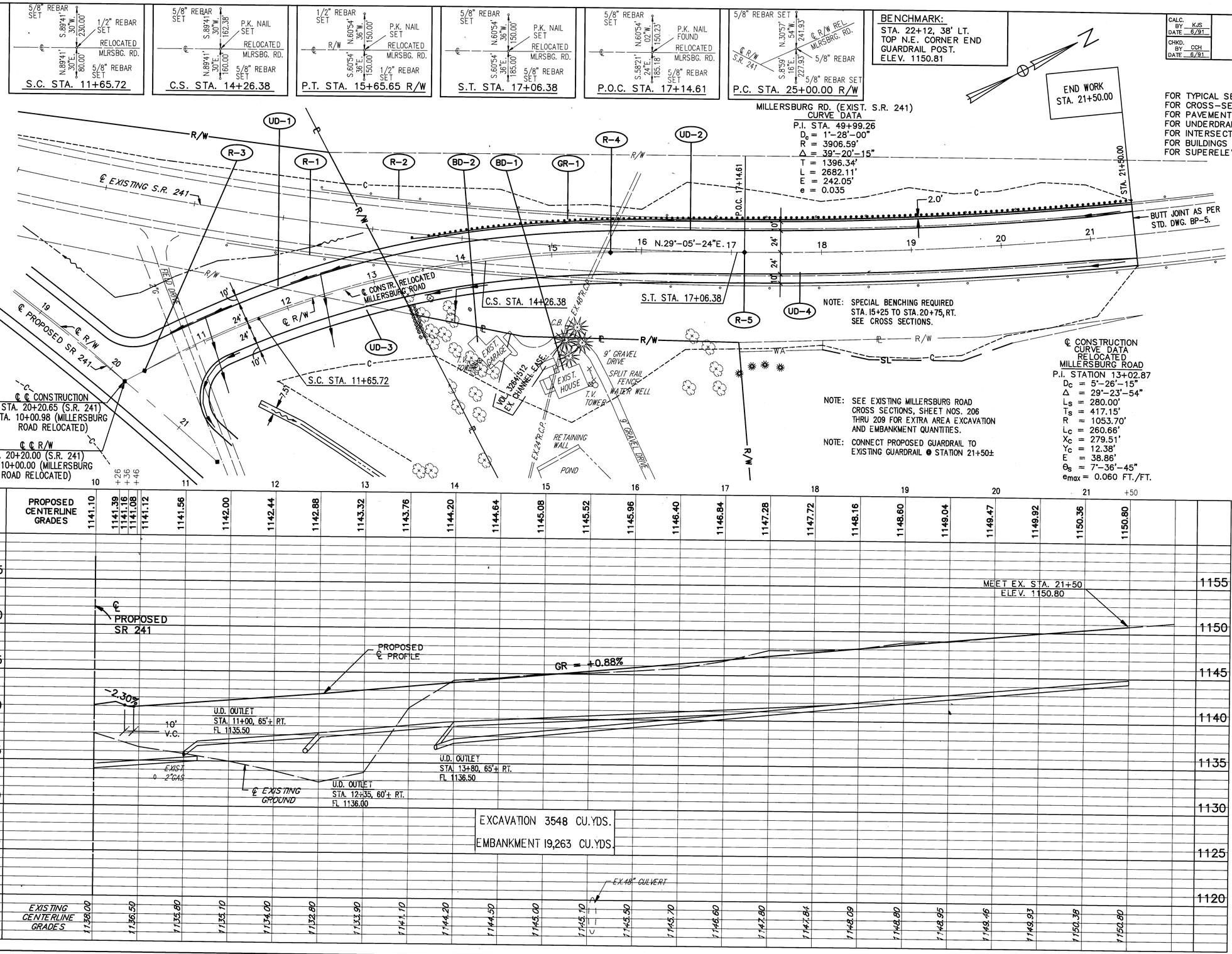
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

END AREA		VOLUME	
CUT	FILL	CUT	FILL
51	5		
		202	5
167	0		
		571	0
450	0		
		728	0

STATE ROUTE 241

241XP12

CROSS SECTION STA. 182+00 TO STA. 183+50



CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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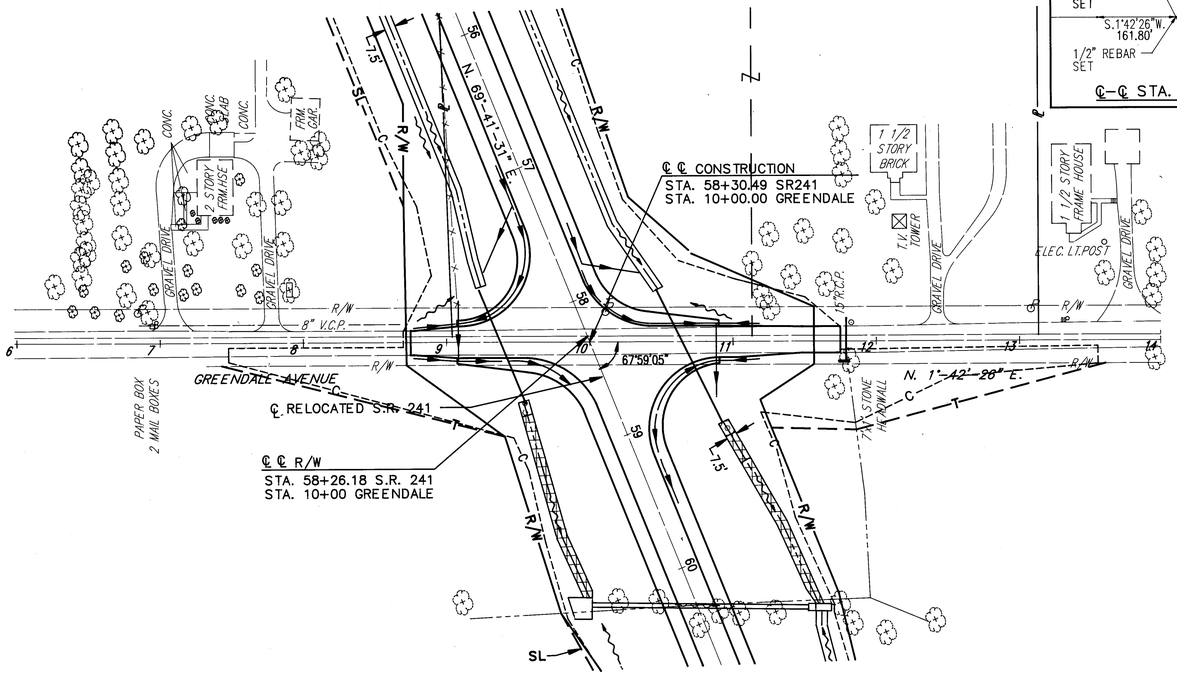
DRAINAGE

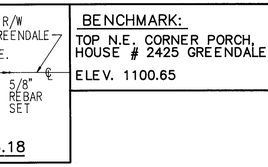
REF.	LOCATION	TOTALS
R-1	STA. 11+60, 92.0' LT. TO STA. 21+50, 38.0' RT.	1
R-2	STA. 12+70, 114.0' LT. TO STA. 21+50, 38.0' LT.	1
R-3	STA. 10+25.00 ℄ R/W	1
R-4	STA. 15+65.65 ℄ R/W	1
R-5	STA. 17+15.41 ℄ R/W	1
GR-1	STA. 13+50, 37.5' LT. TO STA. 21+50, 36.0' LT.	1

ROADWAY

REF.				TOTALS
604	MONUMENT ASSEMBLY	EA.		3
606	GUARDRAIL TYPE 5	L.F.	781	781
606	ANCHOR ASSEMBLY TYPE A	EA.	1	1
202	GUARDRAIL REMOVED	L.F.	1015	1920
			905	

RELOCATED MILLERSBURG ROAD





BENCHMARK:
TOP N.E. CORNER PORCH, HOUSE # 2425 GREENDALE
ELEV. 1100.65

CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO	173 / 303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	

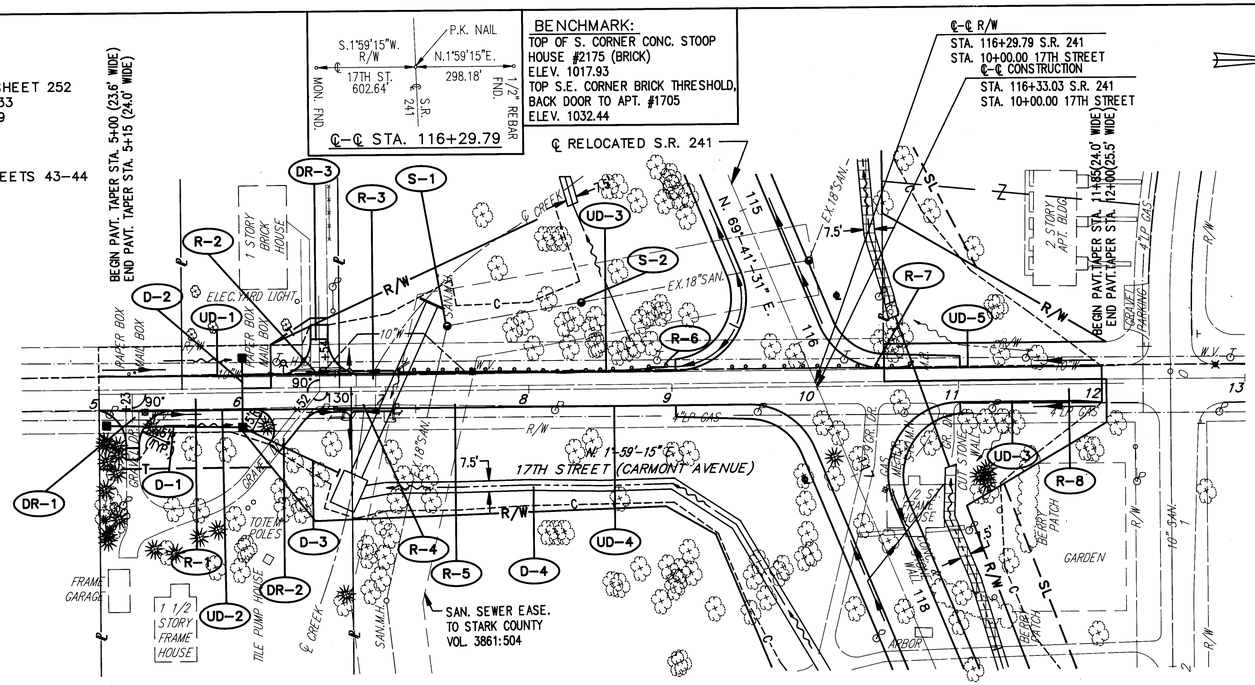
FOR TYPICAL SECTIONS SEE SHEET 8
FOR CROSS–SECTIONS SEE SHEETS 187–190
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 250
FOR UNDERDRAIN QUANTITIES SEE SHEET 32, 33
FOR INTERSECTION DETAILS SEE SHEET 219
FOR CULVERT DETAILS SEE SHEETS 229, 233
FOR MAINLINE PLAN & PROFILE SEE SHEET 57

	6	7	8	+50	+75	9	+25	+50	+67.06	+77.06	10	+12.94	+50	+75	11	+25	+30	+75	12	13	14
PROPOSED CENTERLINE GRADES					1099.17	1098.55	1098.04	1097.60	1097.30	1097.29	1097.53	1097.22	1096.54	1096.08	1095.66	1095.33	1095.10	1094.95			
					PVC		PVT							PVC				PVT			
1115																					
1110																					
1105																					
1100																					
1095																					
1090																					
1085																					
1080																					
EXISTING CENTERLINE GRADES					1101.20	1099.85	1098.50	1097.67	1096.86	1096.06	1095.25	1095.04	1094.86								

MEET EXISTING STA. 8+75
ELEV. 1099.17
BUTT JOINT AS PER BP–5
℄ EXISTING GROUND
GR= –2.72%
50' VERTICAL CURVE
PVI STA. 9+00
PVI EL 1098.40
10' VERTICAL CURVE
K = 53.2
V = 36.6 M.P.H.
GR= –1.78%
℄ SR 241
100' VERTICAL CURVE
PVI STA. 11+25.00
PVI EL 1095.15
K = 69.4
V = 44.7 M.P.H.
MEET EX. STA. 11+75
ELEV. 1094.95
BUTT JOINT AS PER BP–5
℄ PROPOSED PROFILE
GR= 1.84%
GR= –0.40%
24" CONDUIT, TYPE A
15" CONDUIT, TYPE A
EXCAVATION 600 CU. YDS.
EMBANKMENT 110 CU. YDS.

| DRAINAGE | | | | | | | | | | | | | | | | | | |

FOR TYPICAL SECTIONS SEE SHEET 9
FOR CROSS-SECTIONS SEE SHEETS 191-194
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 252
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32, 33
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR DRIVEWAY PROFILES SEE SHEET 217
FOR INTERSECTION DETAILS SEE SHEET 219
FOR STORM SEWER PROFILES SEE SHEET 226
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEETS 43-44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 261
FOR CULVERT DETAIL SEE SHEET 232
FOR MAINLINE PLAN & PROFILE SEE SHEET 63



CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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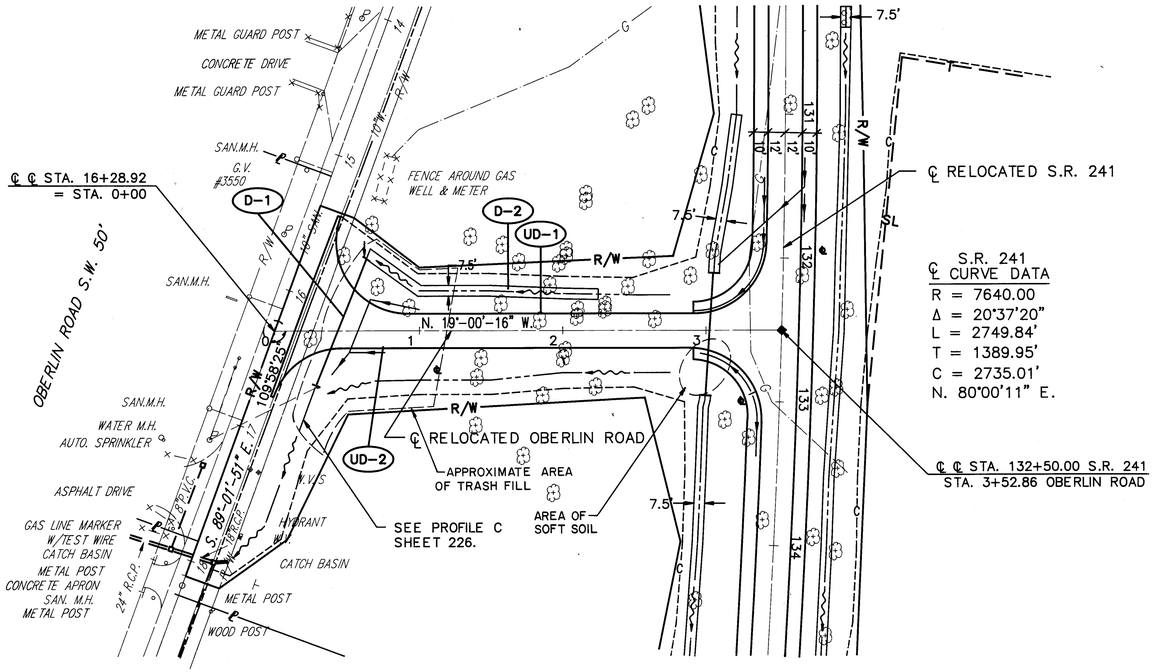
| | | |

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

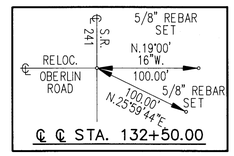
175
303

BENCHMARK:
STA. 14+05, 17.5' RT. (EXISTING OBERLIN RD.) R.R. SPIKE N.W. SIDE POWER POLE #2420-D3
ELEV. 1009.51 3

FOR TYPICAL SECTIONS SEE SHEET 9.
FOR CROSS-SECTIONS SEE SHEETS 195, 196.
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 254.
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32, 33.
FOR INTERSECTION DETAILS SEE SHEET 220.
FOR HIGHWAY LIGHTING PLAN SEE SHEET 262.
FOR CULVERT DETAILS SEE SHEETS 226, 234.
FOR MAINLINE PLAN & PROFILE SEE SHEET 64.



℄ S.R. 241 CURVE DATA
R = 7640.00
Δ = 20°37'20"
L = 2749.84'
T = 1389.95'
C = 2735.01'
N. 80°00'11" E.



℄ ℄ STA. 132+50.00

670	DITCH EROSION PROTECTION	S.Y.	139		139
603	15" CONDUIT, TYPE A, 706.02	LF.	94		94
602	CONCRETE MASONRY	C.Y.	0.5		0.5

DRAINAGE

REF.	LOCATION	TOTALS
D-1	STA. 0+30, 38RT. TO STA. 0+63, 50 LT.	
D-2	STA. 0+63 TO STA. 2+25, LT.	

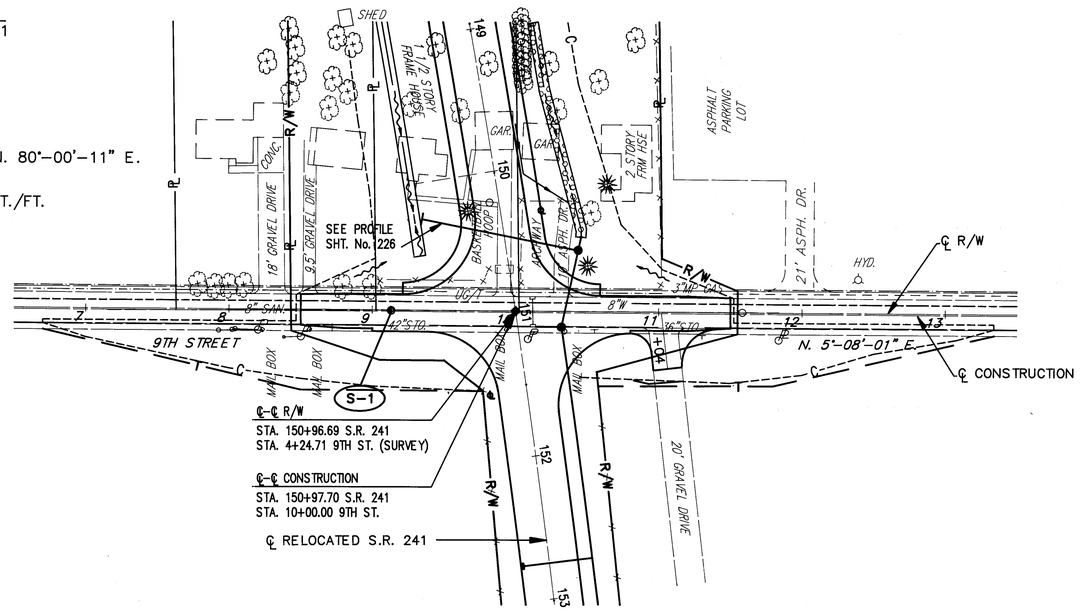
ROADWAY

REF.	LOCATION	TOTALS

OBERLIN ROAD

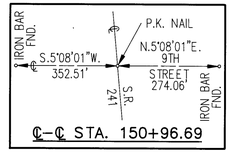
PLAN - PROFILE STA. 0+00 TO STA. 3+52.86

℄ CURVE DATA
(S.R. 241)
P.I. STA. 142+75.01
D_c = 0°-45'-00"
R = 7640.00'
Δ = 20°37'20"
L = 2749.83'
T = 1389.95'
C = 2735.01', N. 80°-00'-11" E.
E = 125.40'
e_{max} = 0.016 FT./FT.



BENCHMARK:
BARGE SPIKE 1" UP NW SIDE POWER POLE NE CORNER 9TH ST. & OBERLIN TO E.
ELEV. 986.46





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FOR TYPICAL SECTIONS SEE SHEET 9
FOR CROSS-SECTIONS SEE SHEETS 197-200
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 255
FOR UNDERDRAIN QUANTITIES SEE SHEETS 32, 33.
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39
FOR MAINLINE STREET PLAN & PROFILES SEE SHEET 66
FOR INTERSECTION DETAILS SEE SHEET 222
FOR STORM SEWER PROFILES SEE SHEET 226
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEET 43, 44
FOR HIGHWAY LIGHTING PLANS SEE SHEET 263

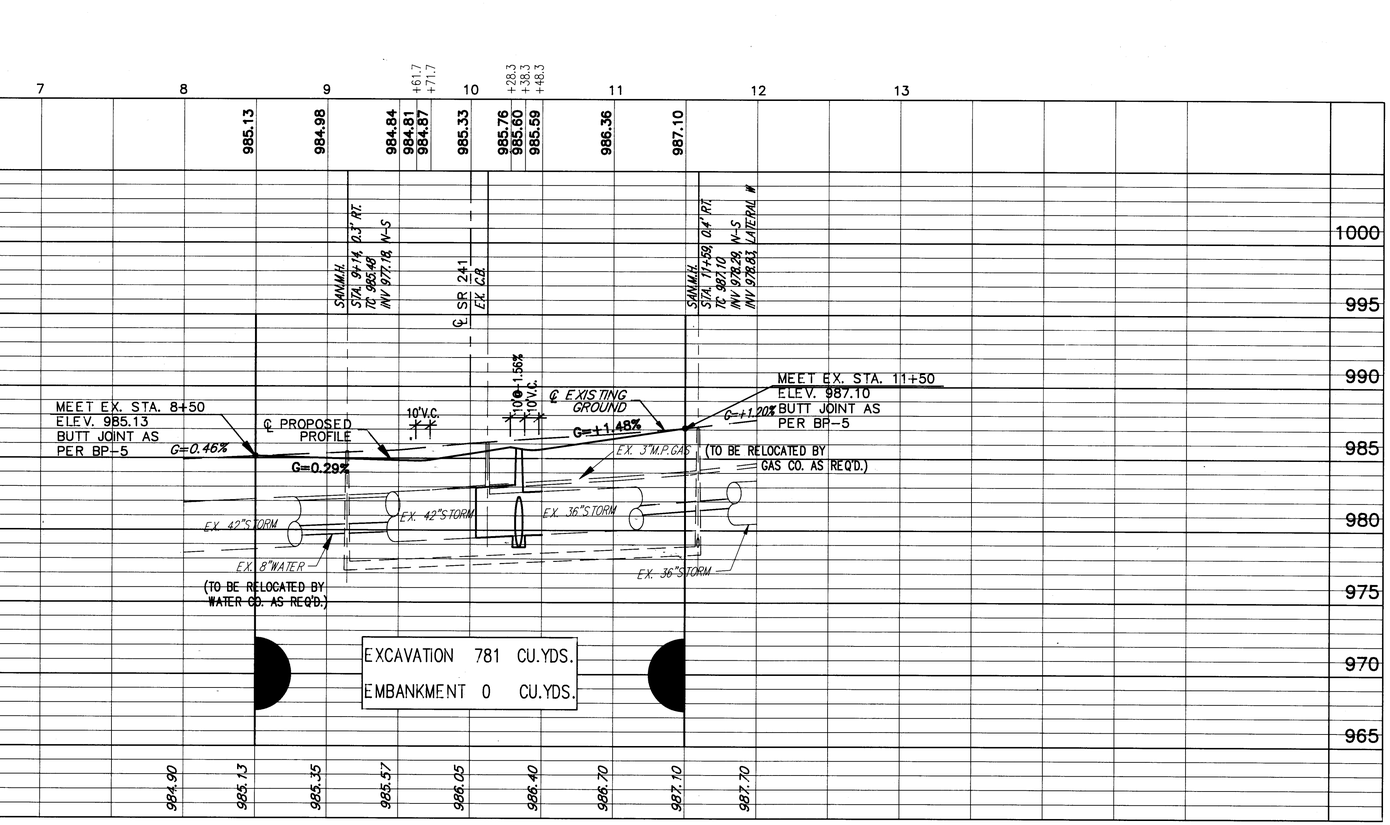
604	MANHOLE, SANITARY ADJUSTED TO GRADE	E.A.	1

DRAINAGE \ SANITARY

REF.	LOCATION	TOTALS
S-1	STA. 9+14, 0.3' RT.	1

ROADWAY

REF.	LOCATION	TOTALS



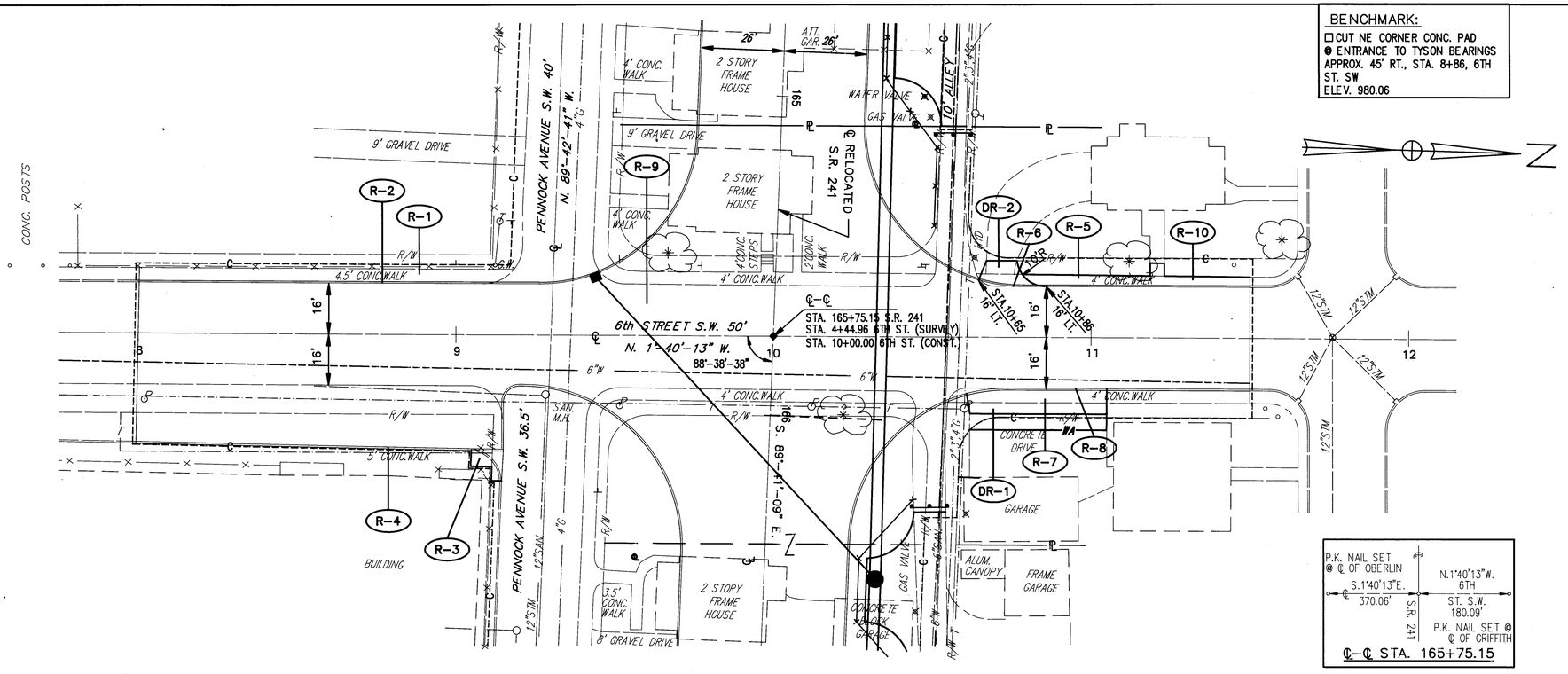
9 TH STREET

PLAN-PROFILE STA. 7+00 TO STA. 13+00

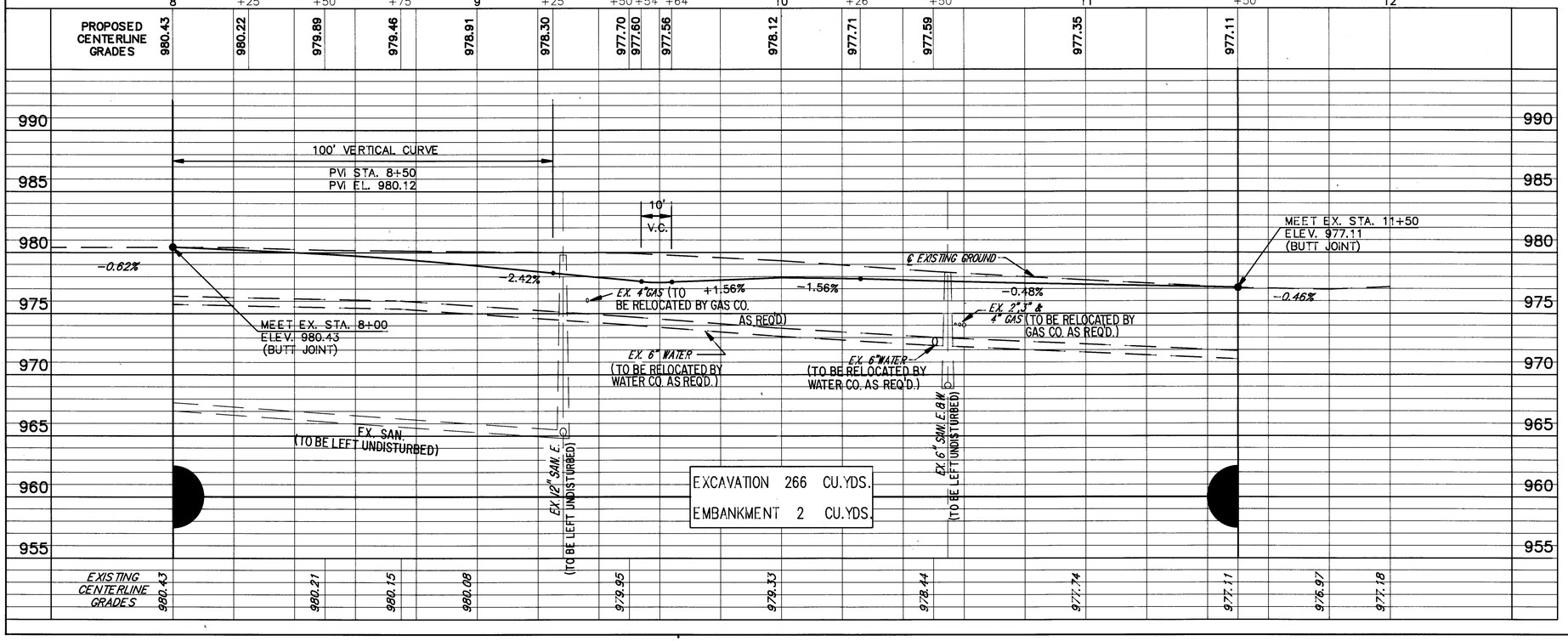
CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO	177
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

FOR TYPICAL SECTIONS SEE SHEET 9.
FOR CROSS–SECTIONS SEE SHEETS 201, 202.
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256.
FOR DRIVEWAY SUMMARY/DETAILS SEE SHEET 39.
FOR MAINLINE STREET PLAN & PROFILES SEE SHEET 69.
FOR INTERSECTION DETAILS SEE SHEET 222.
FOR STORM SEWER PROFILES SEE SHEET 227.
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEETS 43, 44.
FOR HIGHWAY LIGHTING PLAN SEE SHEET 264.

BENCHMARK:
□ CUT NE CORNER CONC. PAD
● ENTRANCE TO TYSON BEARINGS APPROX. 45' RT., STA. 8+86, 6TH ST. SW
ELEV. 980.06



P.K. NAIL SET @ ℄ OF OBERLIN
S.1°40'13"E. 370.06'
N.1°40'13"W. 6TH ST. S.W. 180.09'
S.R. 241
P.K. NAIL SET @ ℄ OF GRIFFITH
℄–℄ STA. 165+75.15



PLAN – PROFILE STA. 8+00 TO STA. 11+50

6TH STREET

| ROADWAY | | |

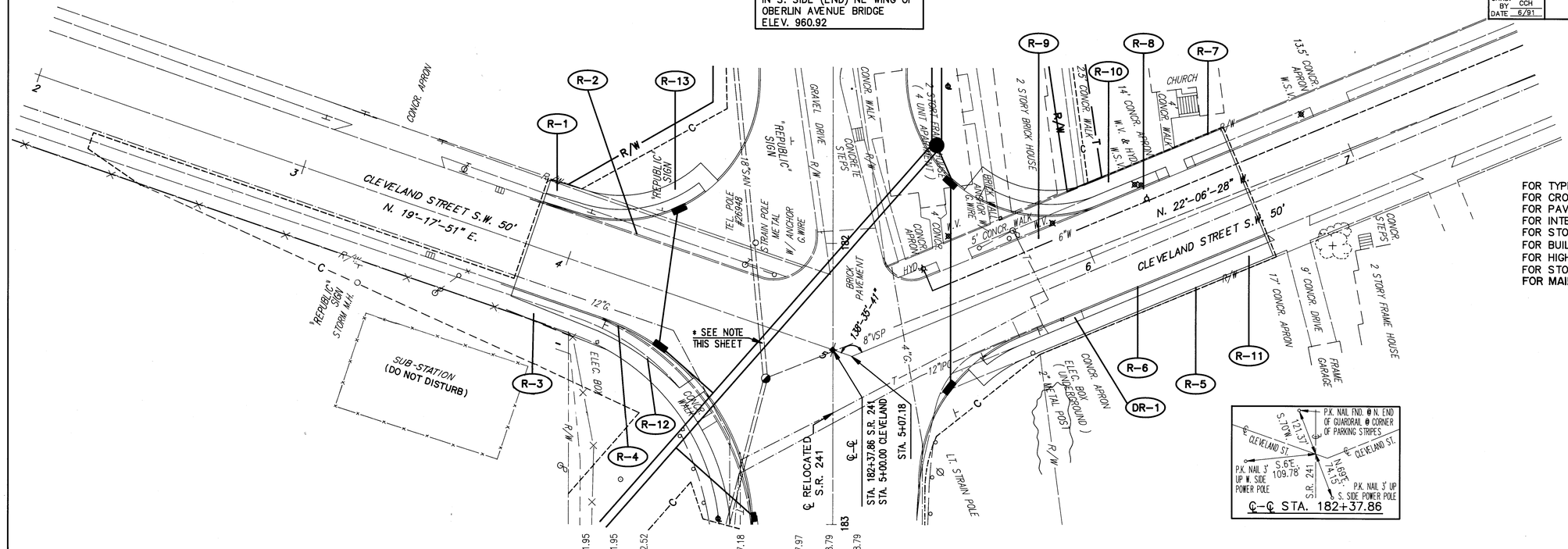
BENCHMARK:
STARK COUNTY BRONZE PLATE IN S. SIDE (END) NE WING OF OBERLIN AVENUE BRIDGE
ELEV. 960.92

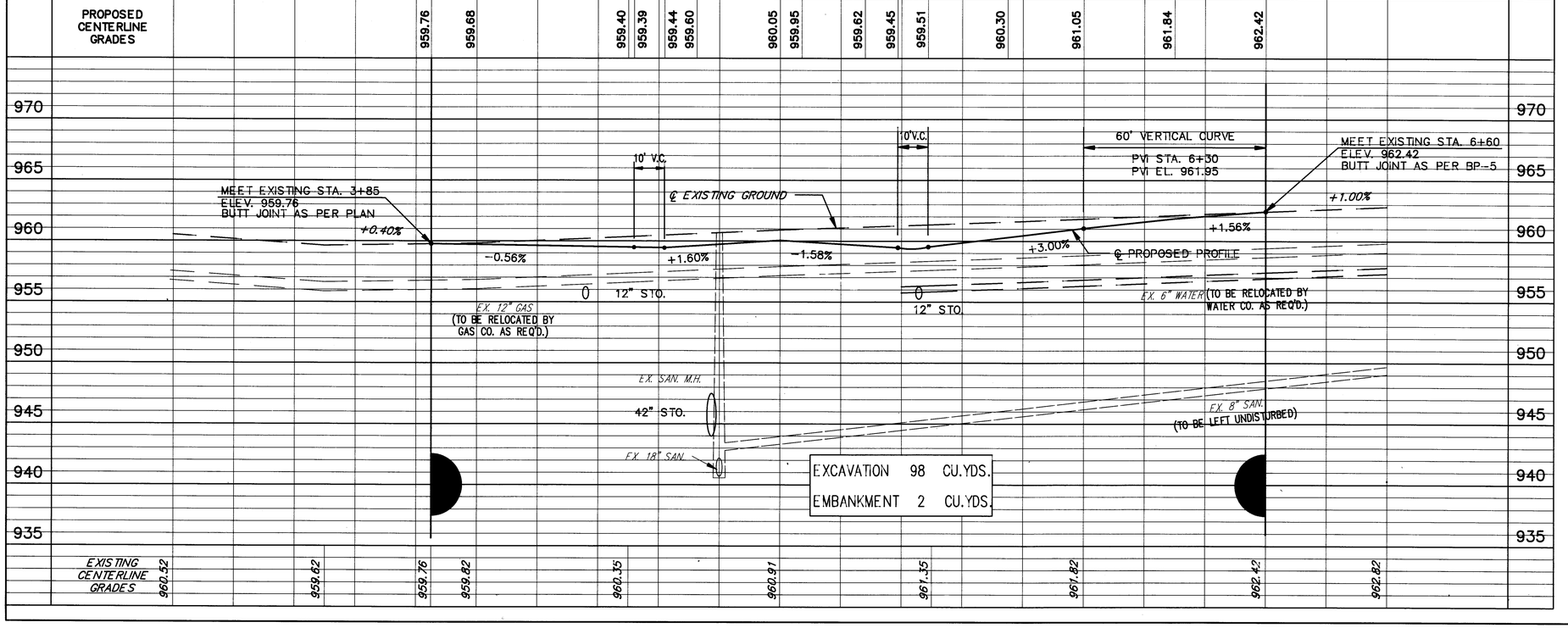
CALC. BY KJS DATE 6/91	STA–241–4.22
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FOR TYPICAL SECTIONS SEE SHEET 9
FOR CROSS–SECTIONS SEE SHEETS 203–205
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR INTERSECTION DETAILS SEE SHEET 223
FOR STORM SEWER PROFILES SEE SHEET 227
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEETS 43, 44
FOR HIGHWAY LIGHTING PLAN SEE SHEET 265
FOR STORM SEWER OUTLET SEE SHEET 225
FOR MAINLINE PLAN & PROFILE SEE SHEET 74





608	CURB RAMP TYPE 2	EA.	5
608	CONCRETE WALK	S.F.	1965
202	PAVEMENT REMOVED	S.Y.	975
202	CURB REMOVED	L.F.	506
202	WALK REMOVED	S.F.	2550

ROADWAY														
REF.	LOCATION													
R–1	STA. 3+85, 21.0' LT. TO STA. 4+78, 21.0' LT.	465												
R–2	STA. 3+85, 16.0' LT. TO STA. 4+81, 38.0' LT.	115												
R–3	STA. 3+85, 21.0' RT. TO STA. 4+87, 72.0' RT.	700												
R–4	STA. 3+85, 16.0' RT. TO STA. 4+94, 70.0' RT.	132												
R–5	STA. 5+35, 22.0' RT. TO STA. 6+60, 22.0' RT.	655												
R–6	STA. 5+31, 24.0' RT. TO STA. 6+60, 16.0' RT.	129												
R–7	STA. 5+32, 22.0' LT. TO STA. 6+60, 22.0' LT.	730												
R–8	STA. 5+30, 28.0' LT. TO STA. 6+60, 16.0' LT.	130												
R–9	STA. 3+95 TO STA. 6+60													
R–10	STA. 3+74, 45' LT. TO STA. 6+60, 22' LT.													
R–11	STA. 3+46, 25' RT. TO STA. 6+60, 22' RT.													
R–12	STA. 3+85, 22' RT. TO STA. 4+84, 72' RT.													
R–13	STA. 3+85, 22' LT. TO STA. 4+36, 47' LT.													
	TOTALS	2550	506	975	1965	5								

* PROVIDE CONCRETE COLLAR BETWEEN THE EXISTING 18" SANITARY SEWER AND PROPOSED 42" STORM SEWER AT STA. 182+35, 25' RT. SEE DETAIL SHEET 239.

CLEVELAND STREET

PLAN – PROFILE STA. 3+85 TO STA. 6+60

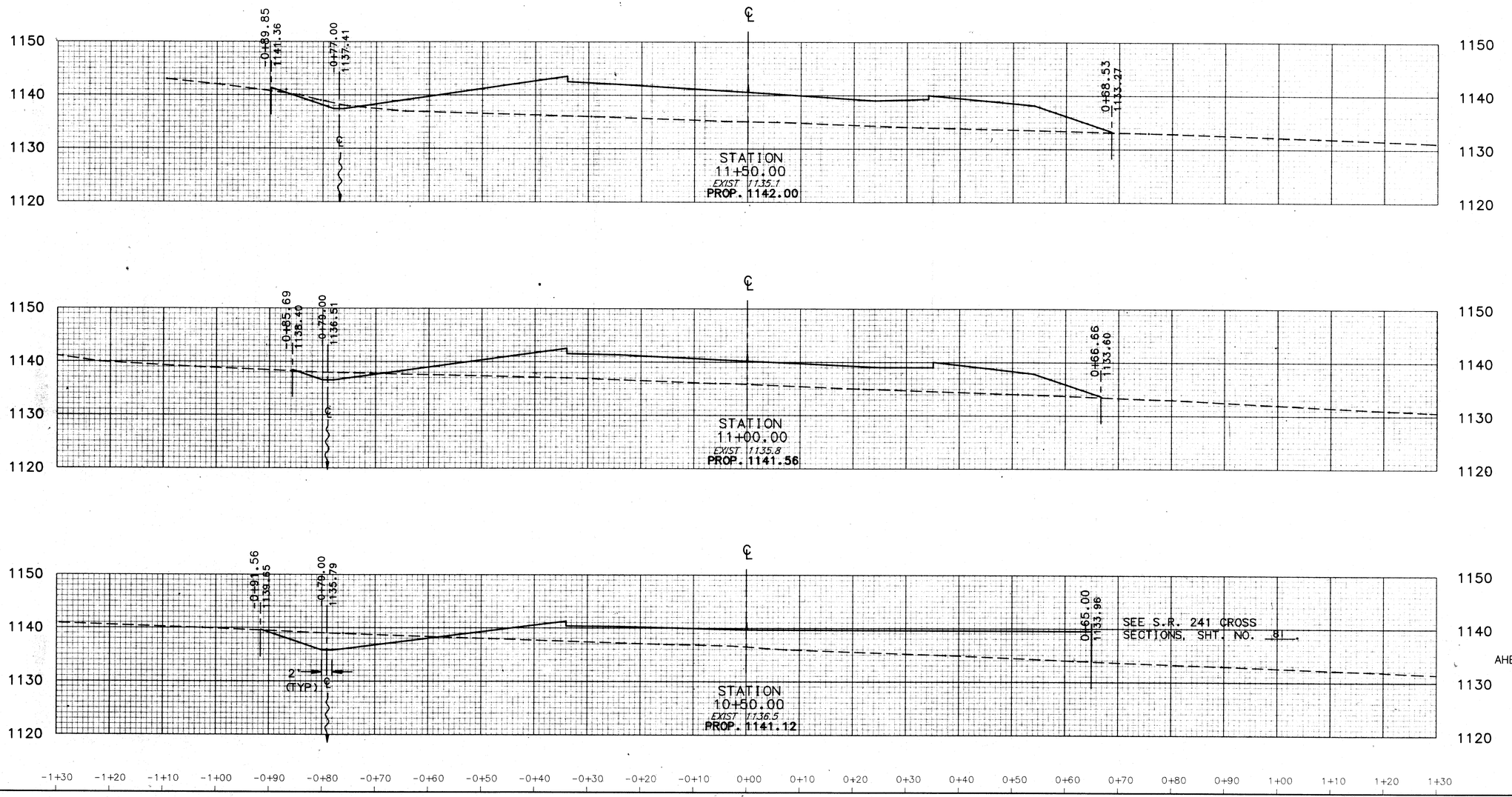
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
22	636		
		35	1042
16	489		
		71	849
AHEAD			
60	428		

RELOCATED MILLERSBURG ROAD

RAMPX1

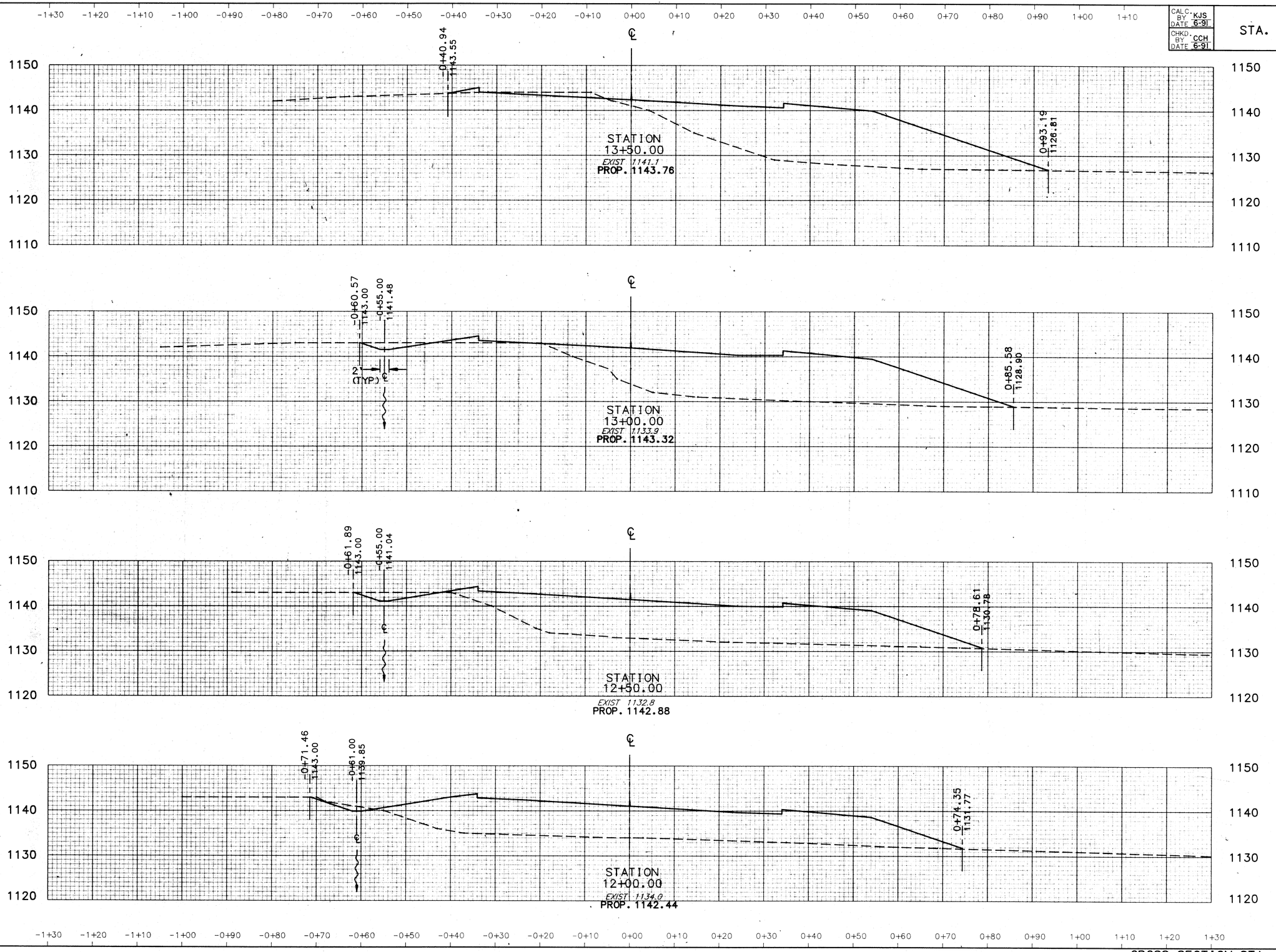
CROSS SECTION STA. 10+50 TO STA. 11+50

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CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
31	684		
		47	1305
20	725		
		42	1357
25	741		
		44	1380
22	749		
		40	1283

RELOCATED MILLERSBURG ROAD

RAMPX2

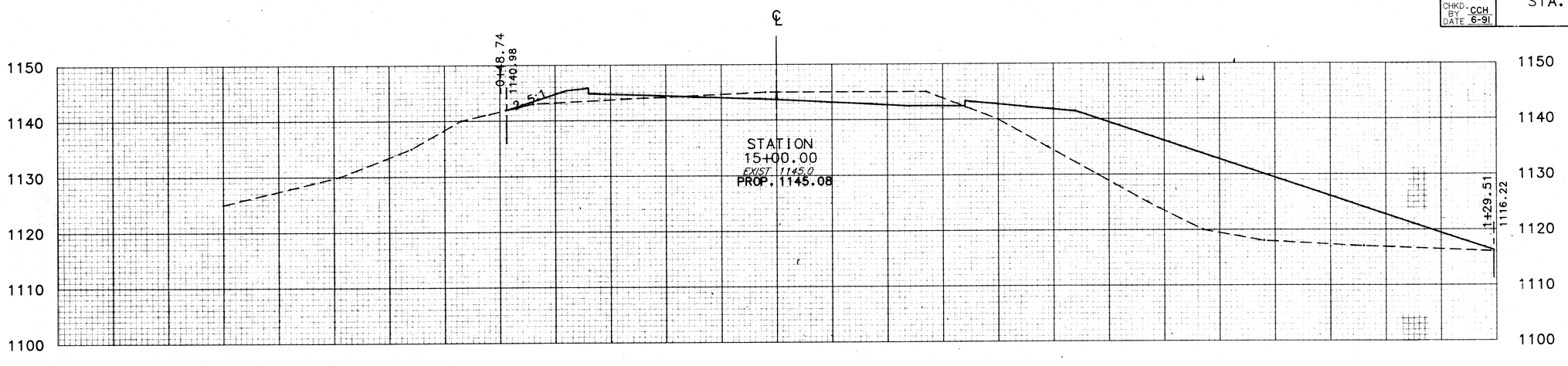
CROSS SECTION STA. 12+00 TO STA. 13+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
70	689		
		117	1537
57	971		
		95	1686
46	850		
		71	1420

CROSS SECTION STA. 14+00 TO STA. 15+00

RAMPX3

RELOCATED MILLERSBURG ROAD

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		173	562
70	337		
		152	659
94	375		
		183	815
104	505		
		161	1106

RELOCATED MILLERSBURG ROAD

RAMPX4

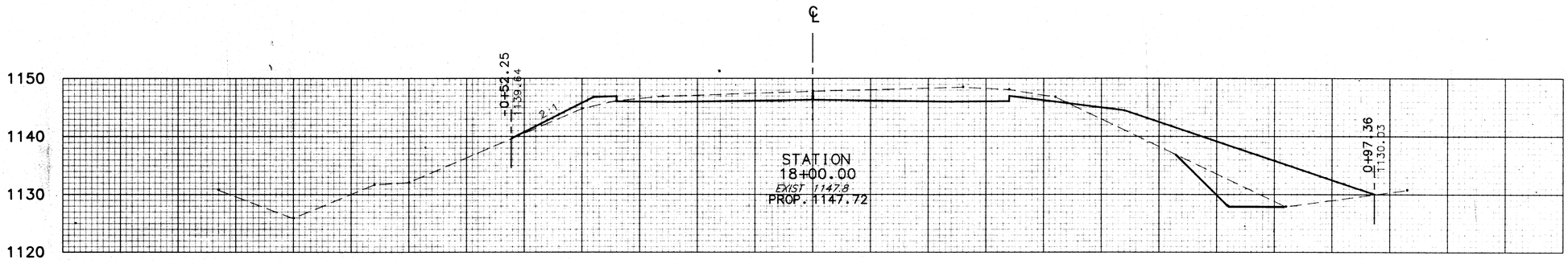
CROSS SECTION STA. 15+50 TO STA. 16+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		292	563
164	275		
		299	511
159	277		
		256	506
117	270		

RELOCATED MILLERSBURG ROAD

RAMPX5

CROSS SECTION STA. 17+00 TO STA. 18+00

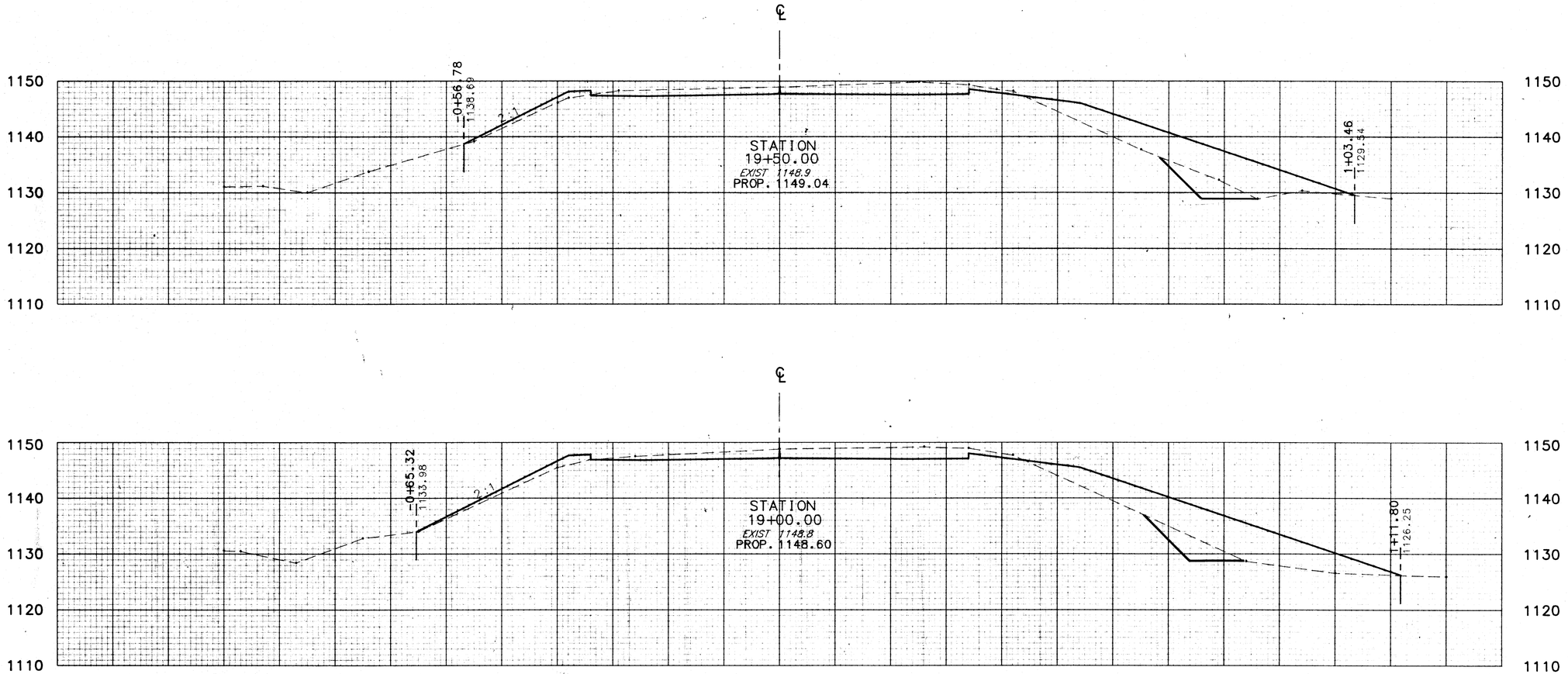
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



END AREA		VOLUME	
CUT	FILL	CUT	FILL
147	274		
		275	562
150	333		
		279	617
151	333		

RELOCATED MILLERSBURG ROAD

RAMPX6

CROSS SECTION STA. 18+50 TO STA. 19+50

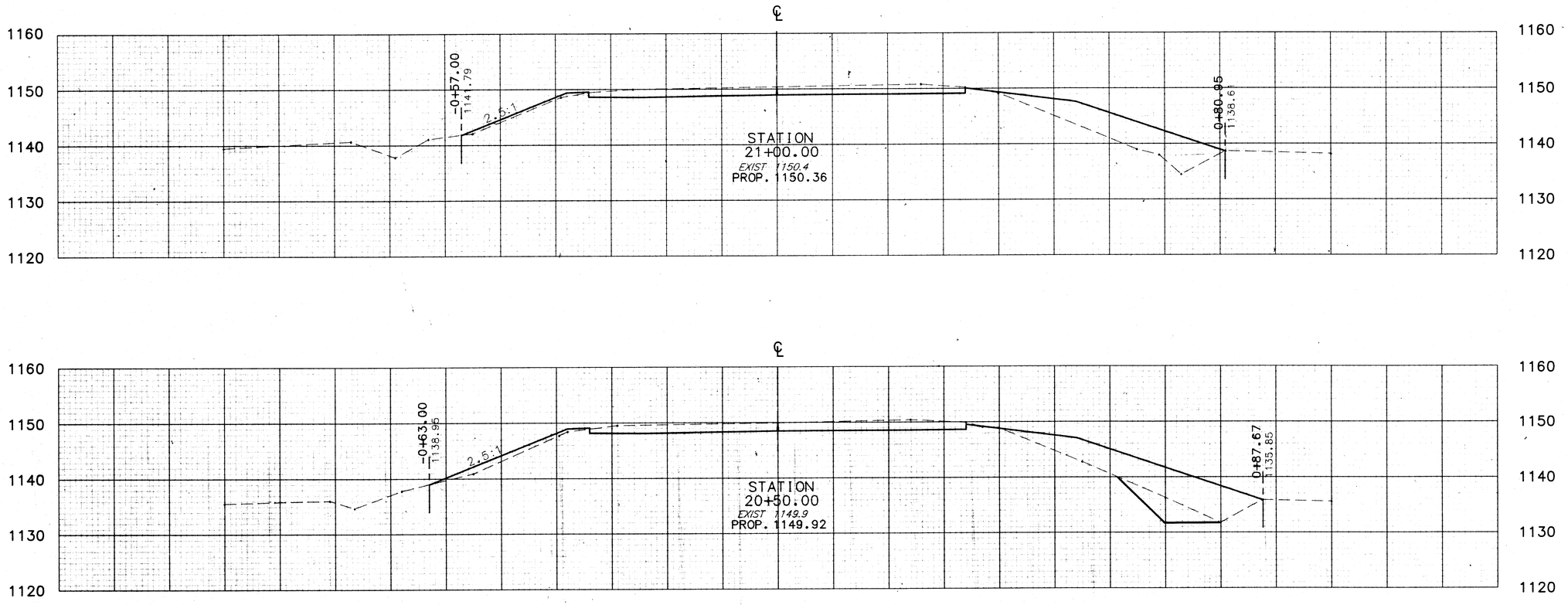
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END AREA		VOLUME	
CUT	FILL	CUT	FILL
		168	150
97	161		
		221	381
142	250		
		261	475
140	263		
		266	497

RELOCATED MILLERSBURG ROAD

RAMPX7

CROSS SECTION STA. 20+00 TO STA. 21+00

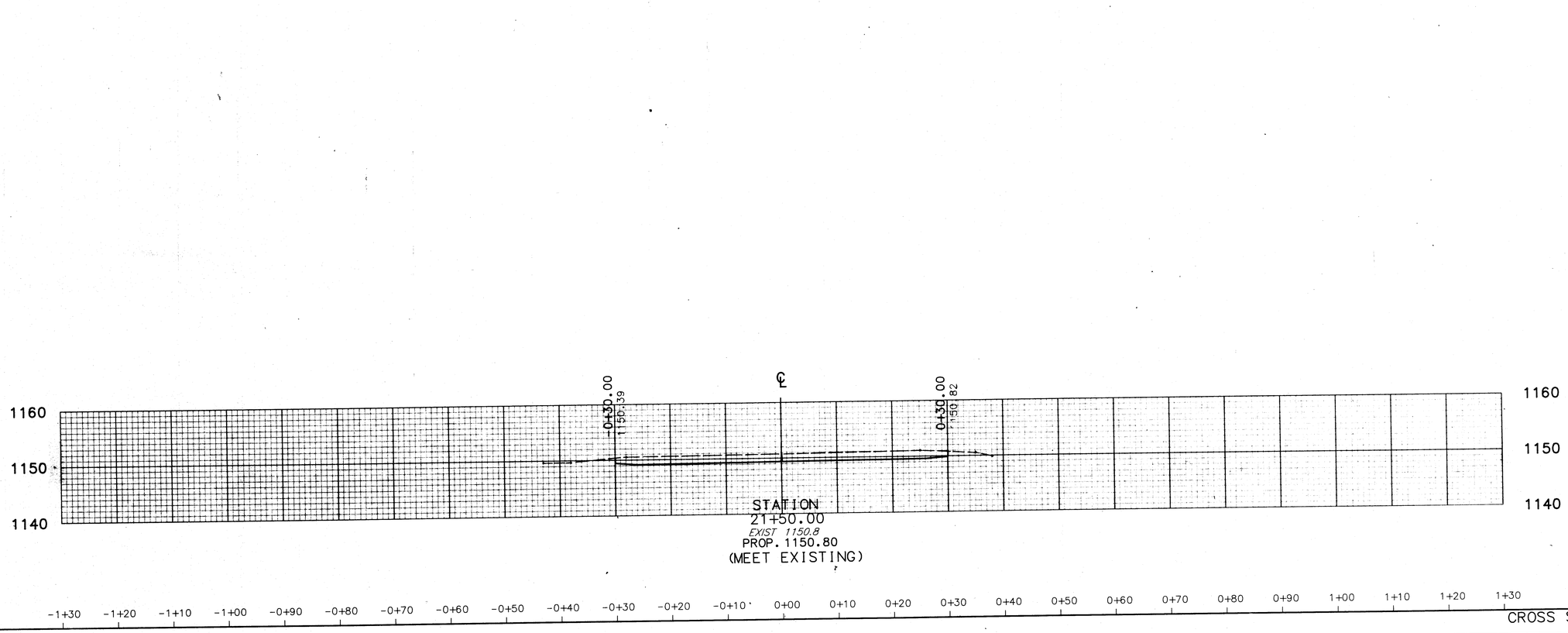
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
84	0		



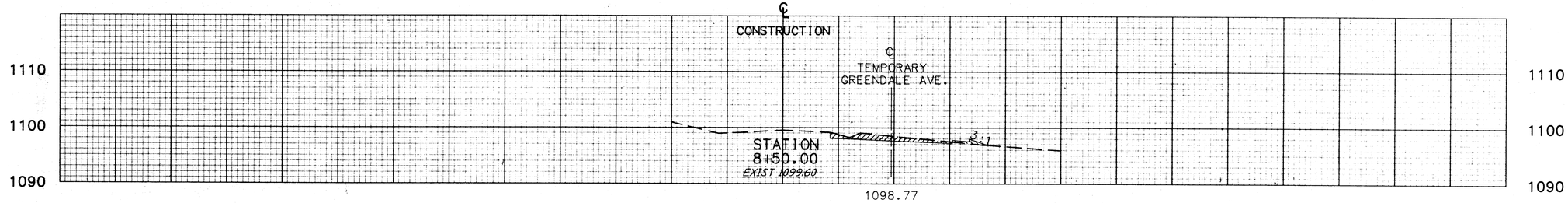
CROSS SECTION STA. 21+50

RAMPX8

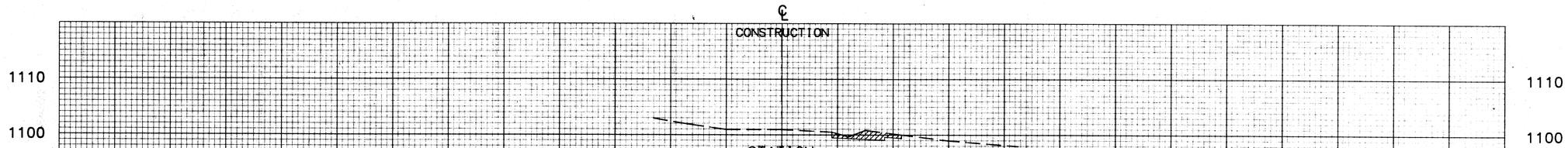
RELOCATED MILLERSBURG ROAD

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD. CCH BY DATE 6/91		FHWA REGION 5

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



REMOVE TEMPORARY EMBANKMENT AFTER TEMPORARY GREENDALE AVE. IS ABANDONED. PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.



EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY GREENDALE AVE. IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

GREENDALE AVENUE

GRNDLX0

CROSS SECTION STA. 7+50 TO STA. 8+50

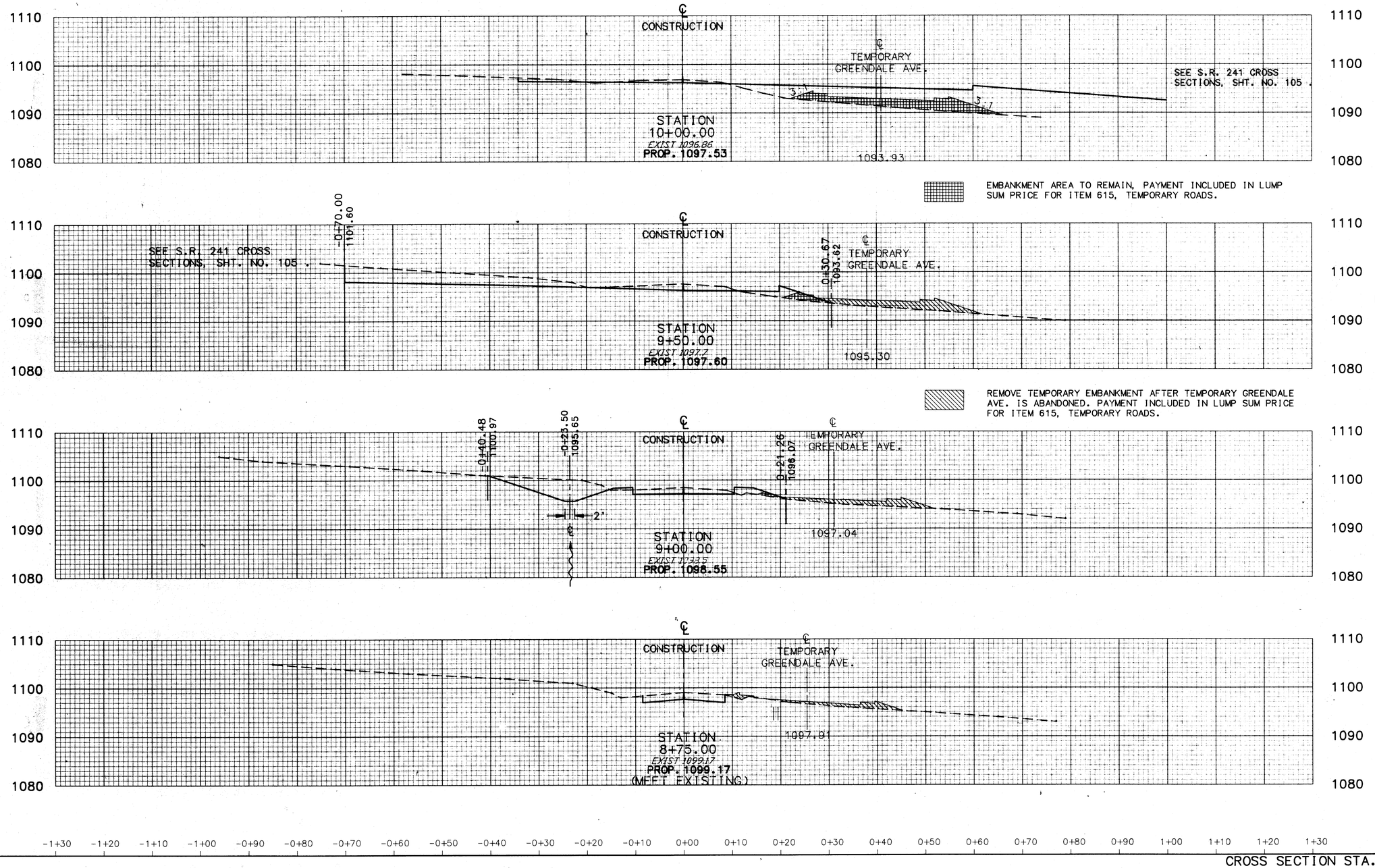
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	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
BACK	130	31		
	83	14	197	41
	24	0	50	7

GREENDALE AVENUE

GRNDLX1

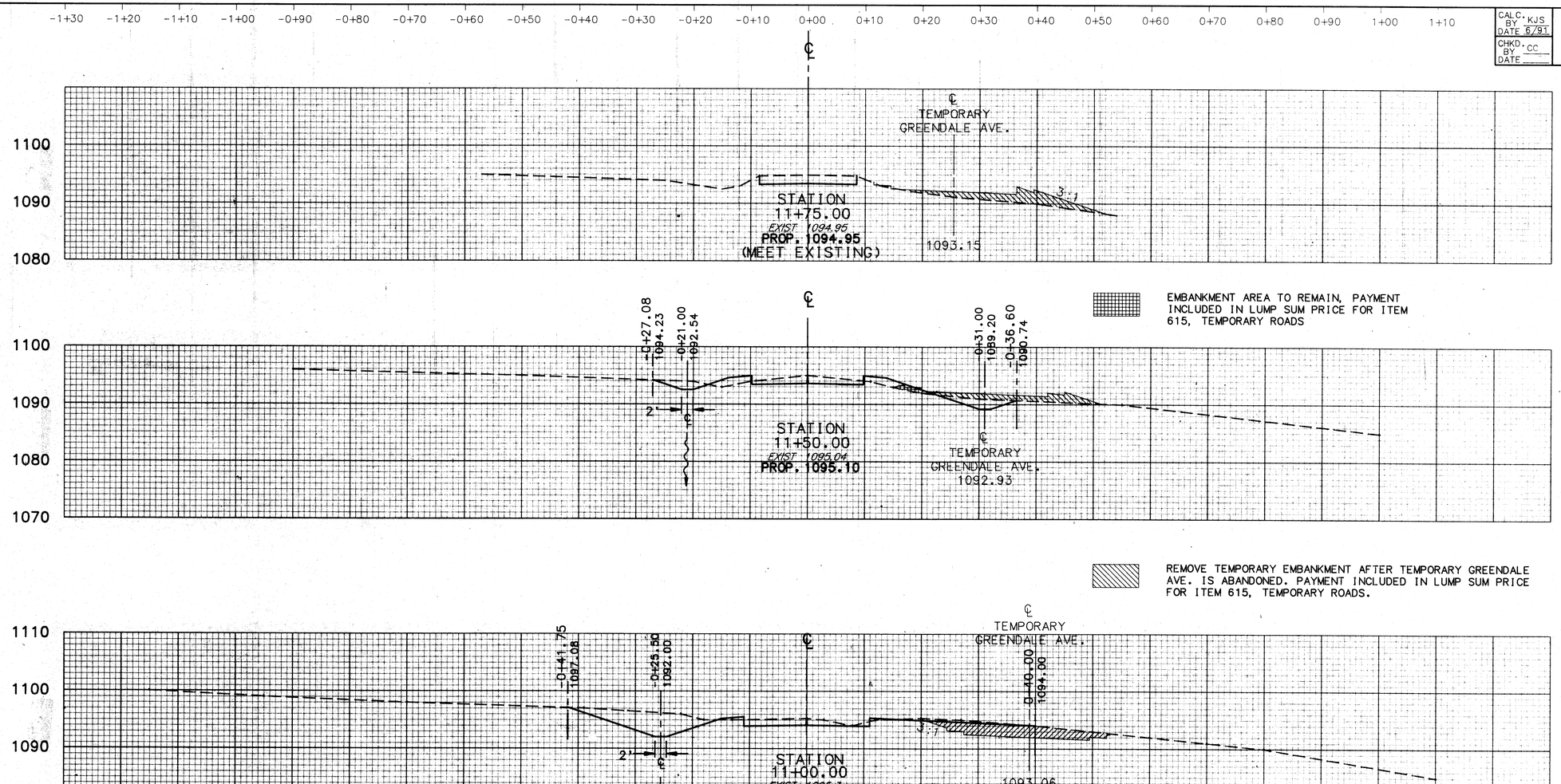
CROSS SECTION STA. 8+75 TO STA. 10+00

CALC. KJS DATE 6/91
CHKD. BY CC DATE

STA. - 241 - 4.22

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EMBANKMENT AREA TO REMAIN, PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS

REMOVE TEMPORARY EMBANKMENT AFTER TEMPORARY GREENDALE AVE. IS ABANDONED. PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY GREENDALE AVE. IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	24	0		
			32	9
	44	18		
			125	19
	91	2		
			196	34
AHEAD	121	35		

GRENDLX2

GREENDALE AVENUE

CROSS SECTION STA. 10+50 TO STA. 11+75

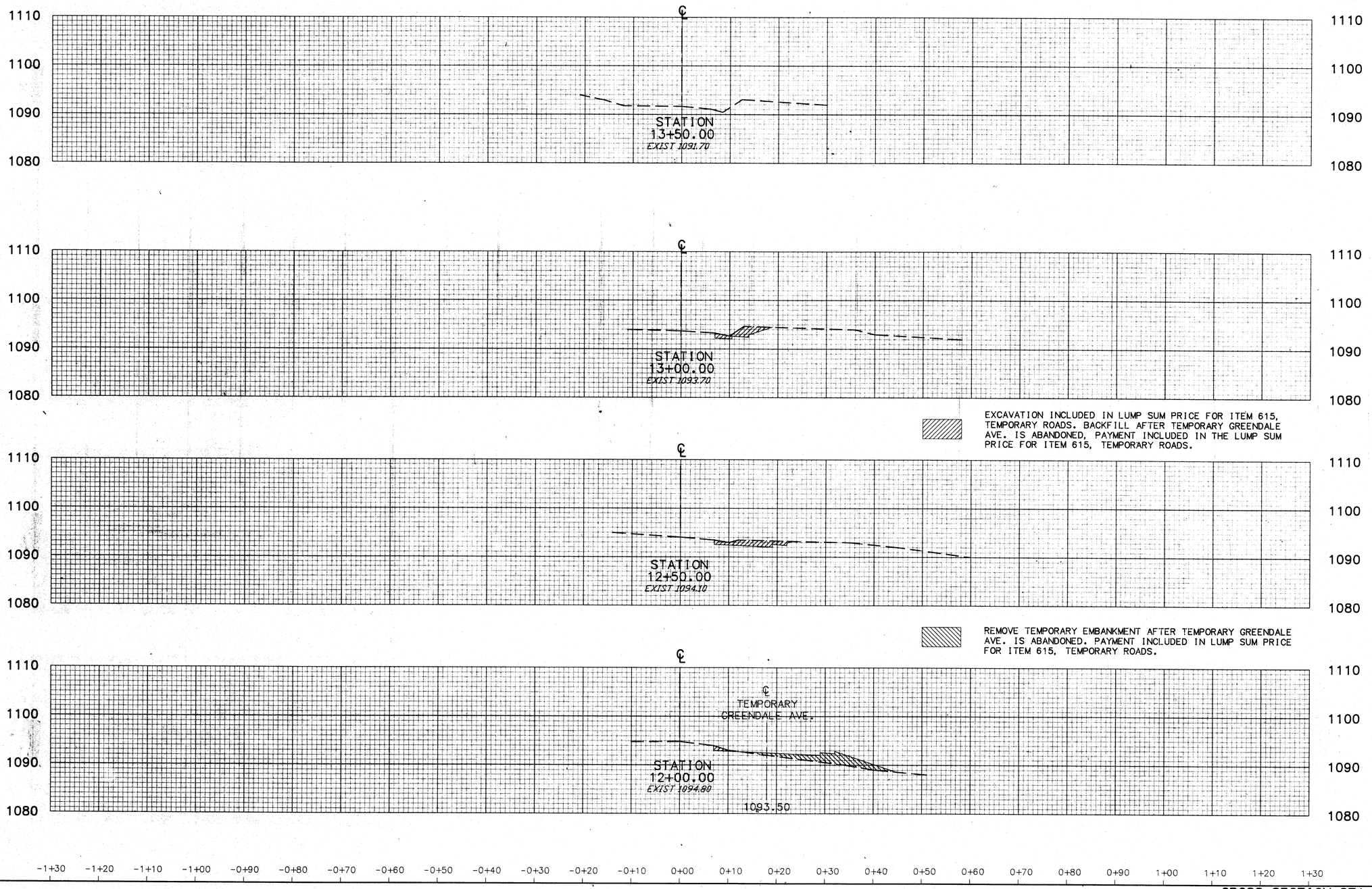
CALC. KJS BY DATE 5/91
CHKD. CCH BY DATE 5/91

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY GREENDALE AVE. IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

REMOVE TEMPORARY EMBANKMENT AFTER TEMPORARY GREENDALE AVE. IS ABANDONED. PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

GREENDALE AVENUE

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

GRNDLX3

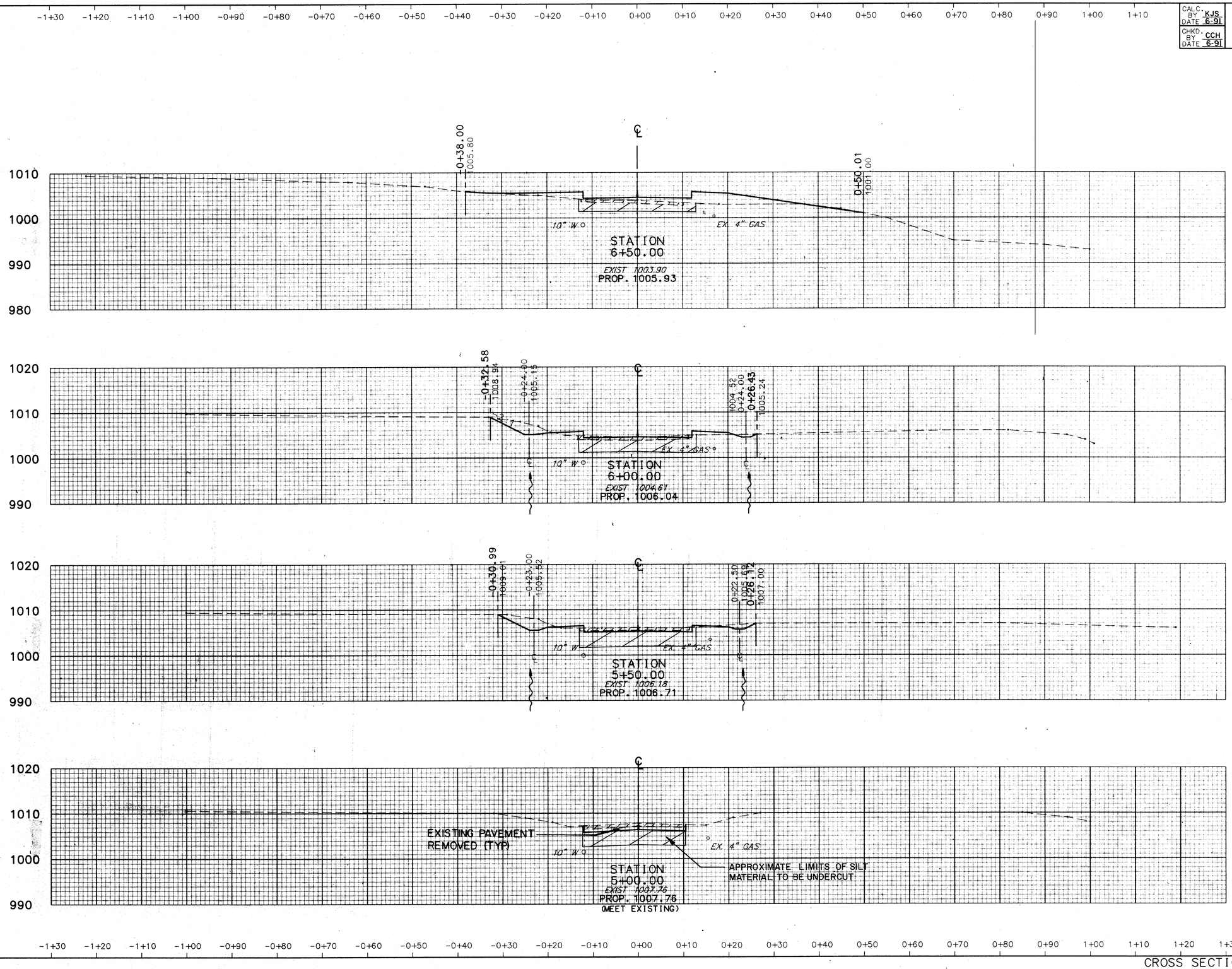
CROSS SECTION STA. 12+00 TO STA. 13+50

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
2	79		
		24	87
23	15		
		53	17
35	3		
		51	3
21	0		

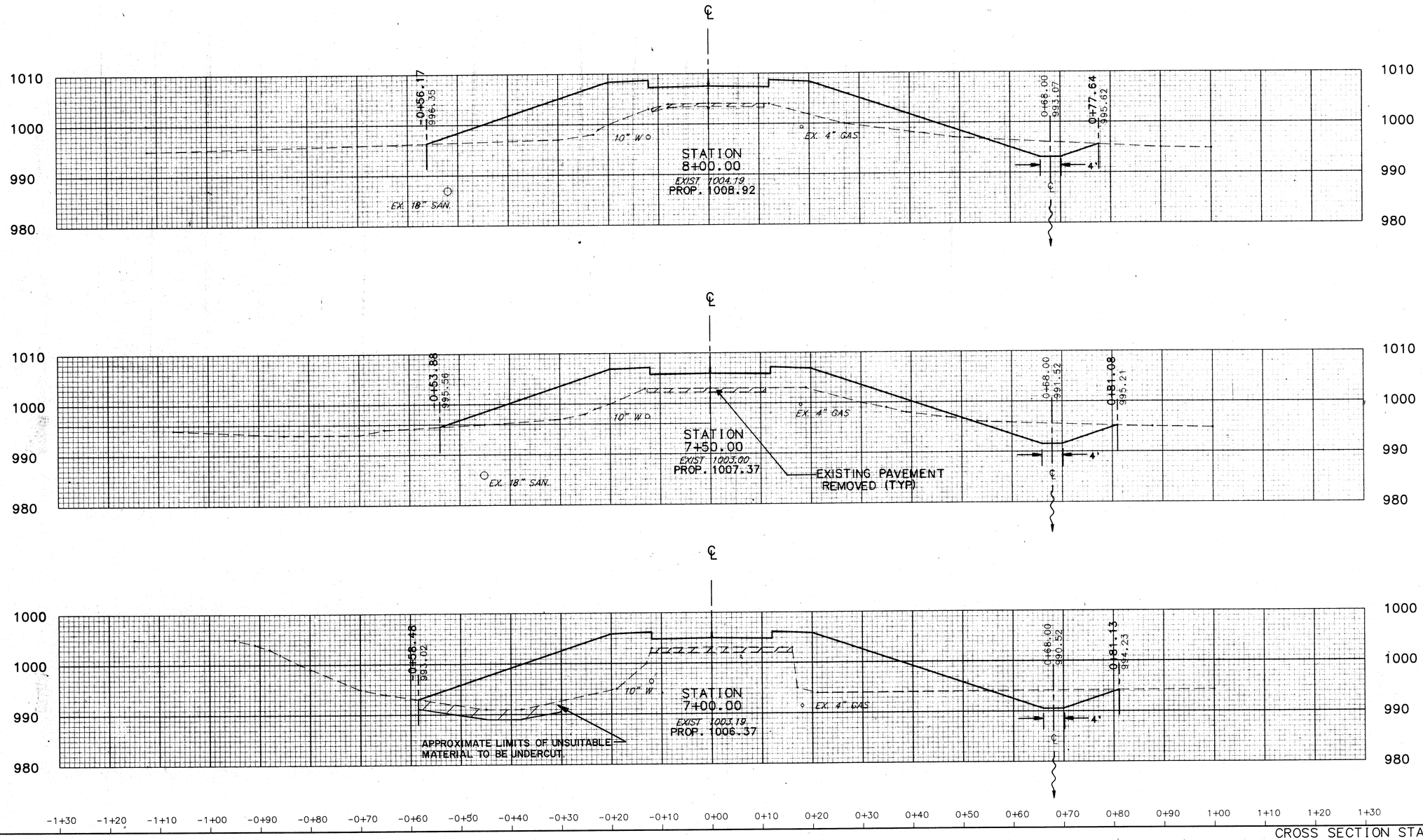
17TH STREET

17THX1

CROSS SECTION STA. 5+00 TO STA. 6+50

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



END AREA		VOLUME	
CUT	FILL	CUT	FILL
41	522		
		100	837
68	383		
		113	953
55	648		
		53	673

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

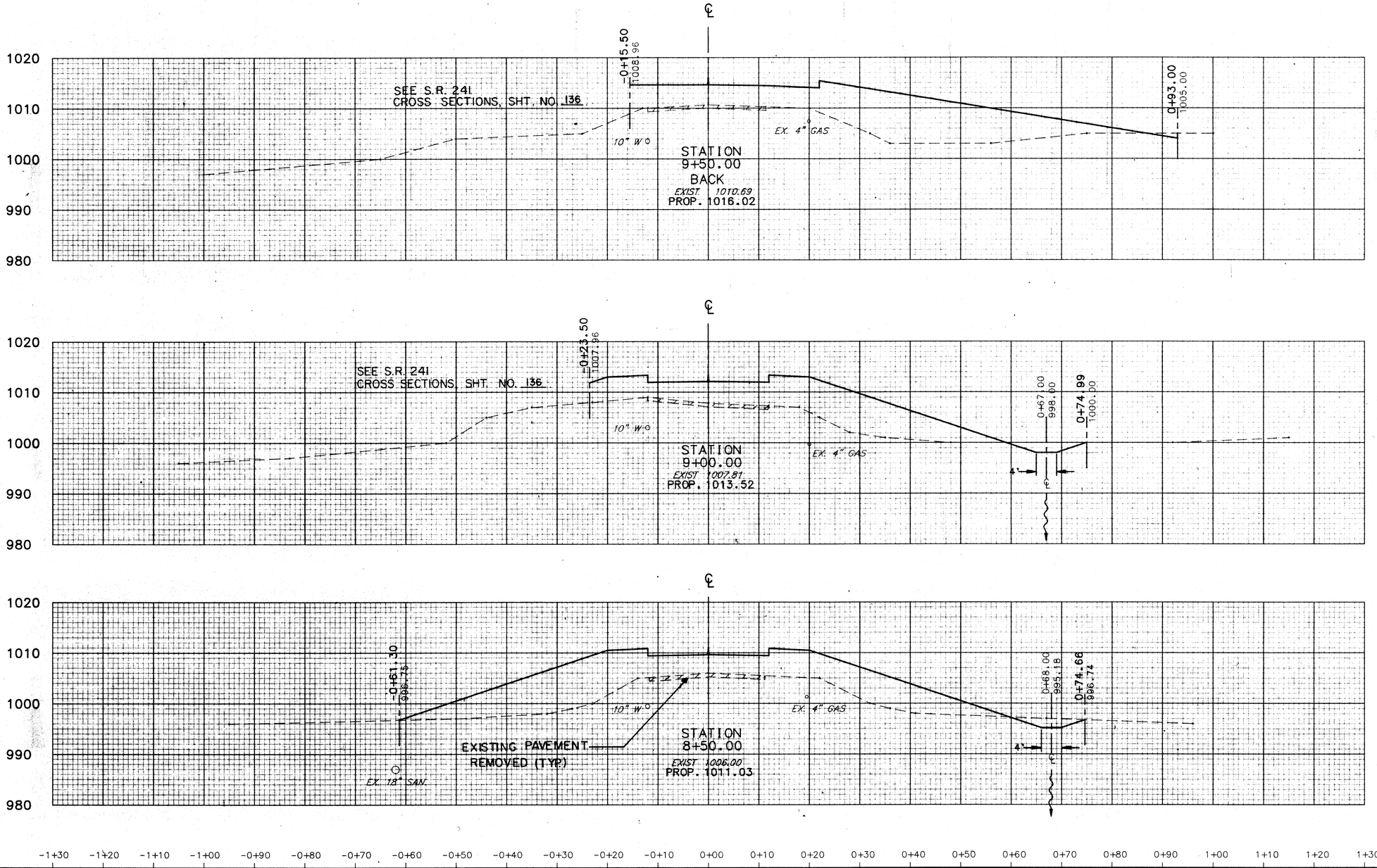
17THX2

CROSS SECTION STA. 7+00 TO STA. 8+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

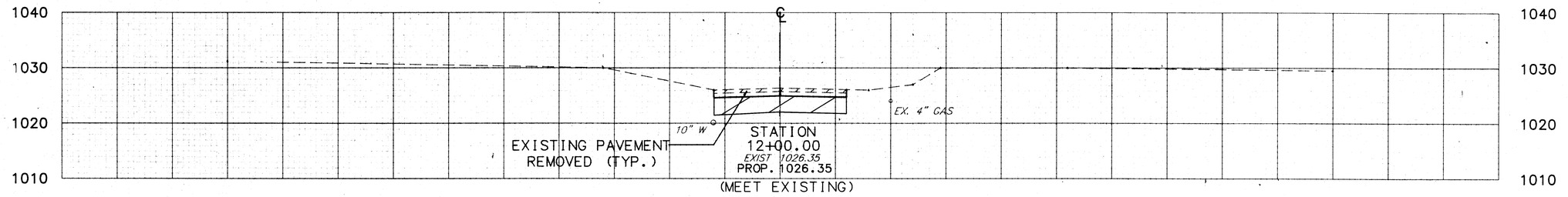


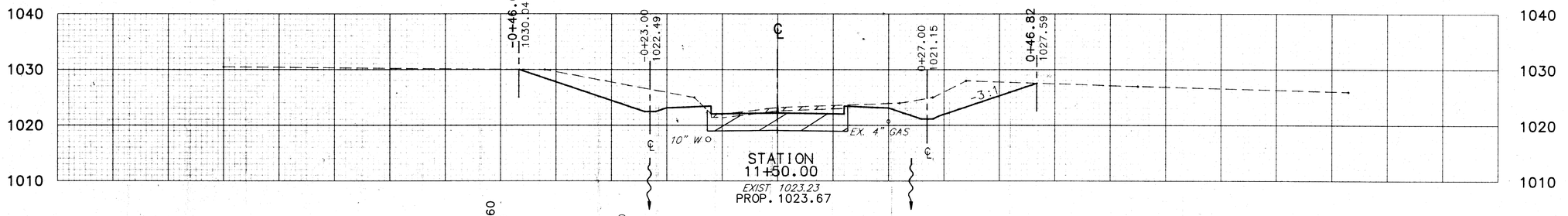
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
BACK	3	559		
			22	919
	20	433		
			34	969
	17	613		
			54	1051

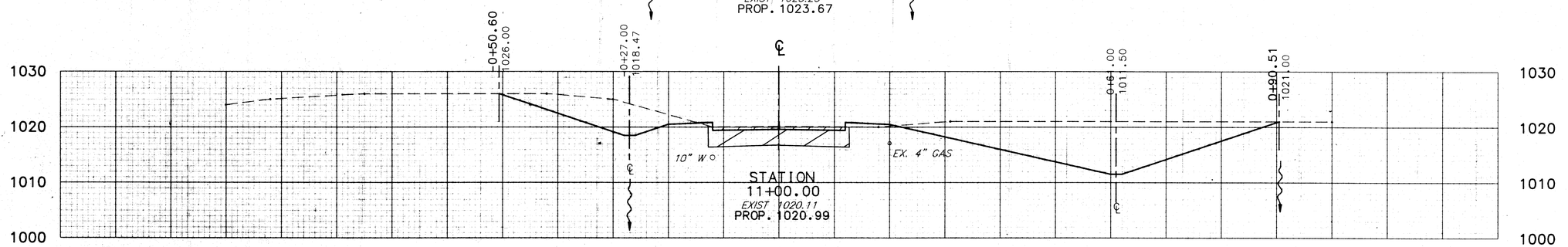
17THX3

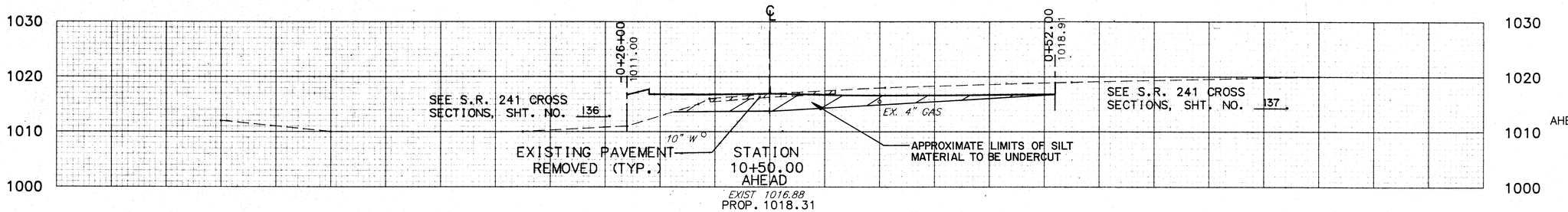
17TH STREET

CROSS SECTION STA. 8+50 TO STA. 9+50









	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	23	0		
			181	4
	173	4		
			592	10
	467	7		
			498	73
AHEAD	70	72		

17TH STREET

1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

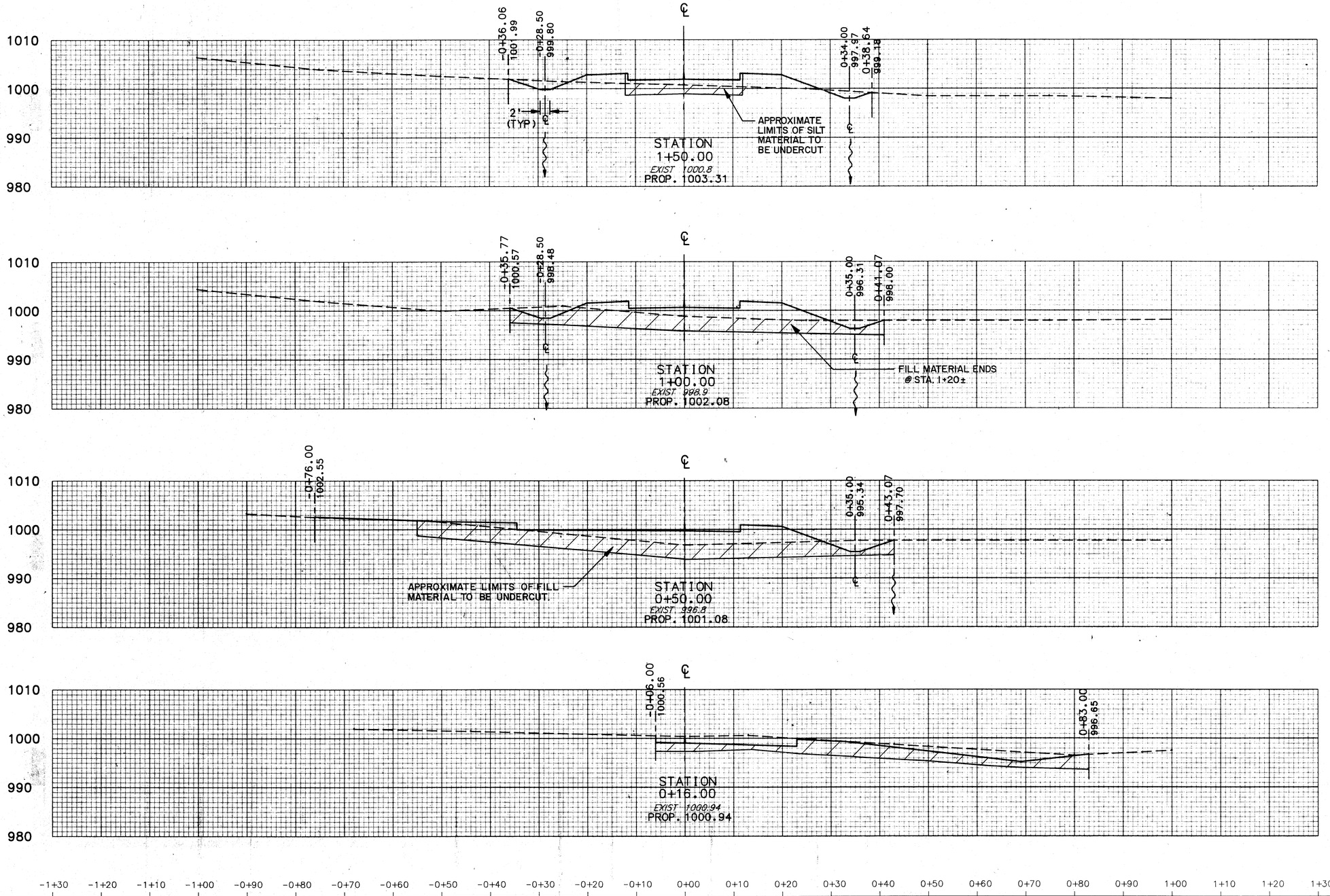
17THX4

CROSS SECTION STA. 10+50 TO STA. 12+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	24	49	53	106
	33	66	53	149
	24	95	80	60
	103	0		

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

OBERLIN ROAD

OBCONX1

CROSS SECTION STA. 0+16 TO STA. 1+50

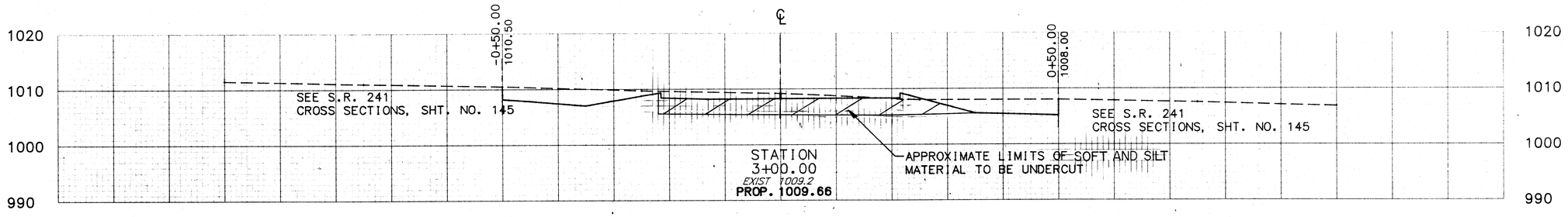
CALC. BY KJS DATE 6/21
CHKD. BY KJS DATE 6/21

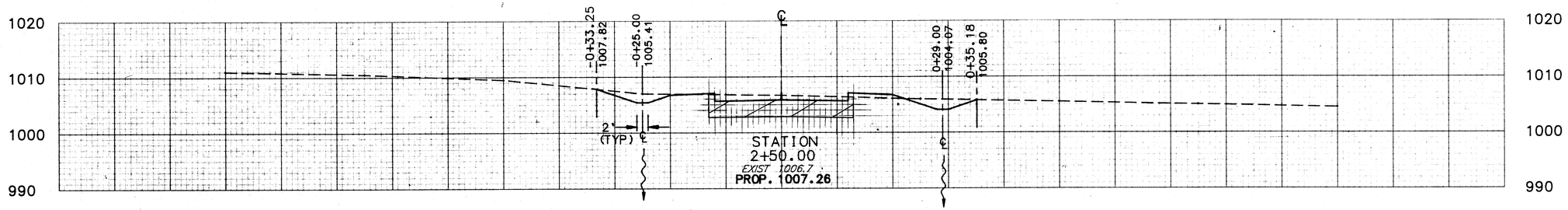
STA. - 241 - 4.22

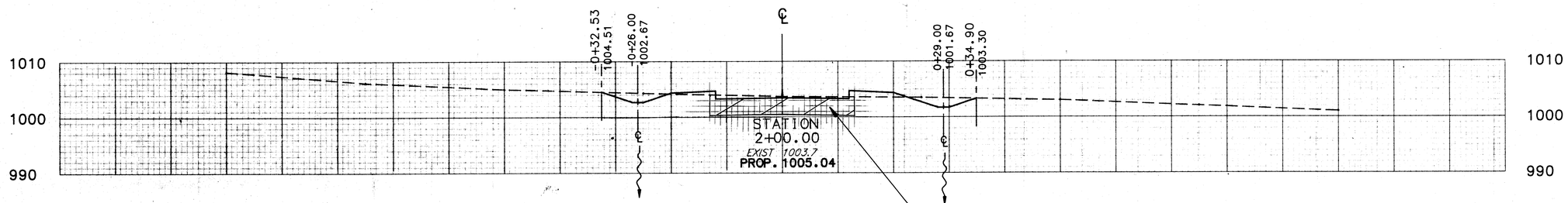
OHIO

FHWA REGION 5

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303







END AREA		VOLUME	
CUT	FILL	CUT	FILL
146	3		
		181	9
49	6		
		77	17
34	12		
		54	57

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

OBERLIN ROAD

CROSS SECTION STA. 2+00 TO STA. 3+00

06CONX2

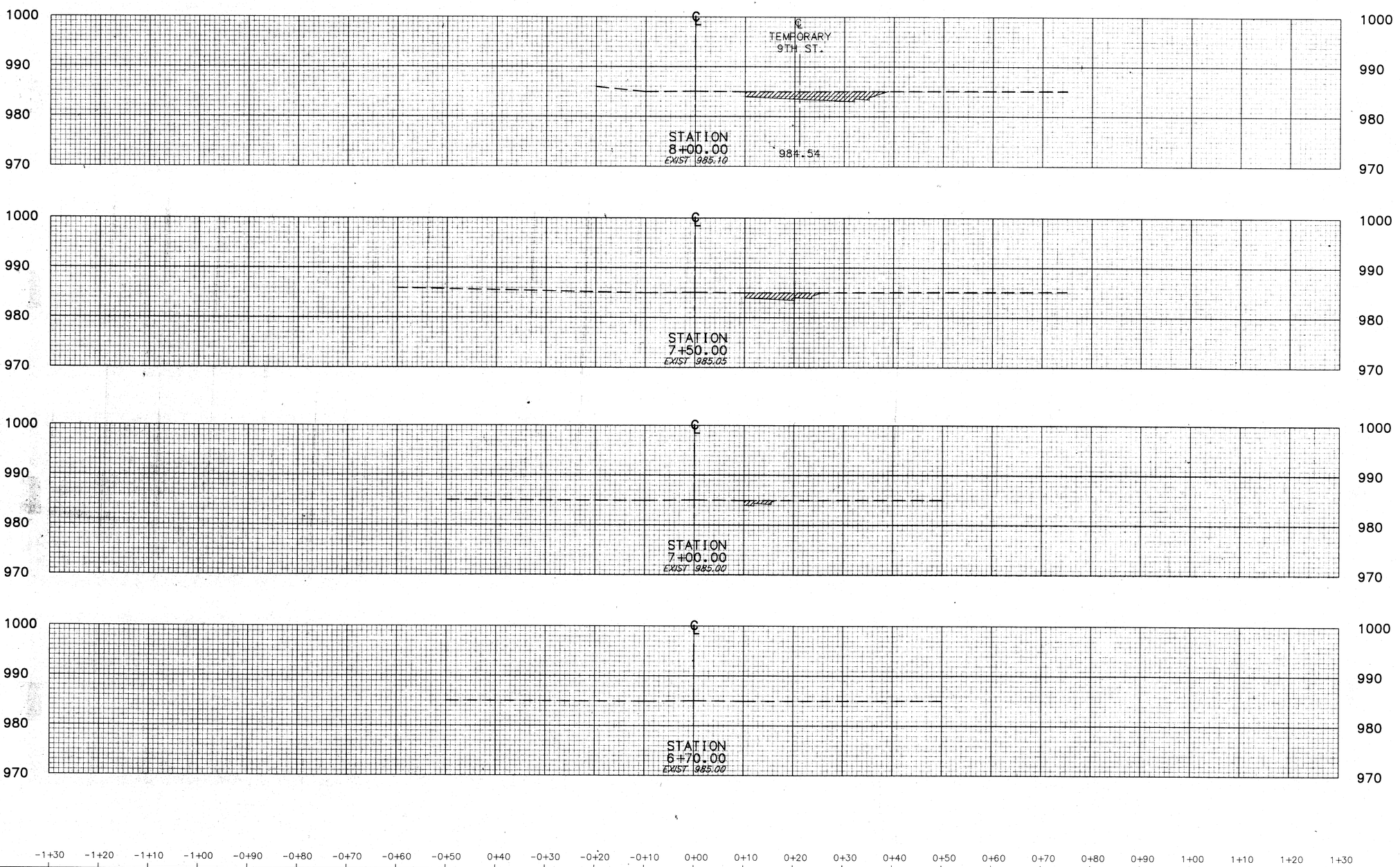
CALC BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD BY CCH DATE 6/91		FHWA REGION 5

197/303

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY 9TH STREET IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

9THSTX0

9TH STREET

CROSS SECTION STA. 6+70 TO STA. 8+00

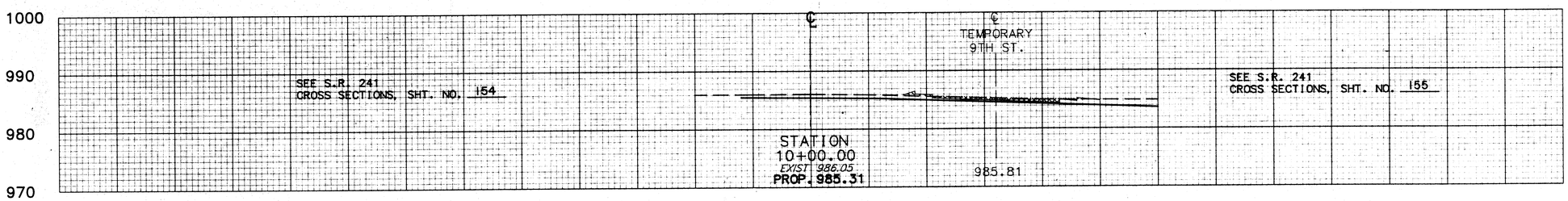
CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6-91		FHWA REGION 5

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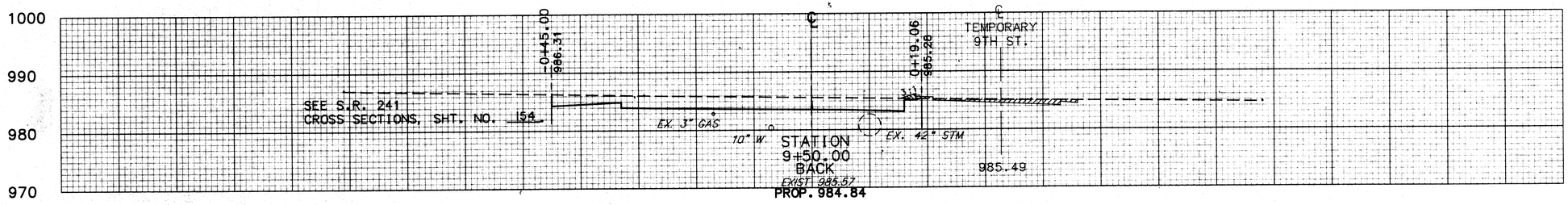
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

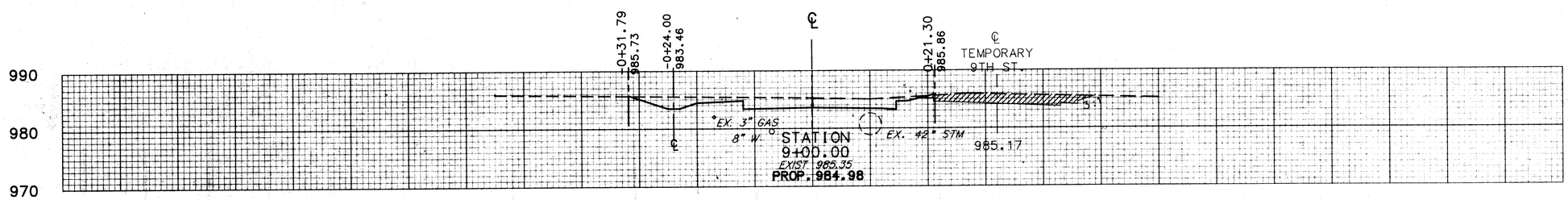
REMOVE TEMPORARY EMBANKMENT AFTER TEMPORARY 9TH STREET IS ABANDONED. PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

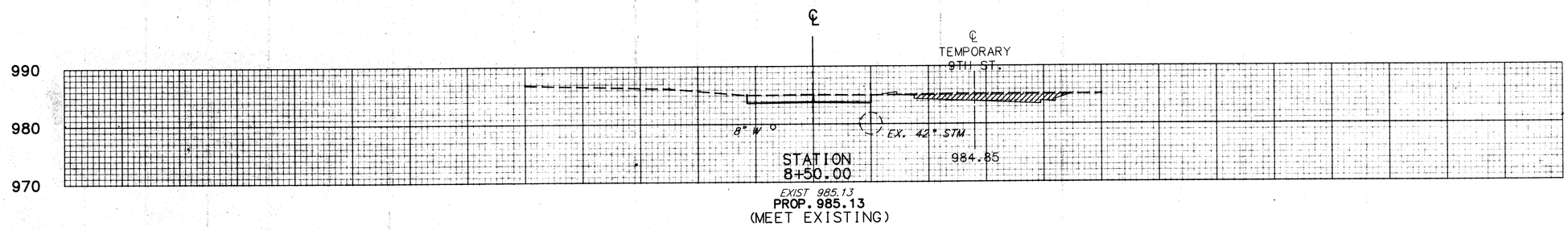
EXCAVATION FOR TEMPORARY ROAD INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.



EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY GREENDALE AVE. IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.







	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
BACK	128	0		
			195	0
	82	0		
			105	0
	31	0		

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

CROSS SECTION STA. 8+50 TO STA. 9+50

9TH STREET

9THSTX1

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

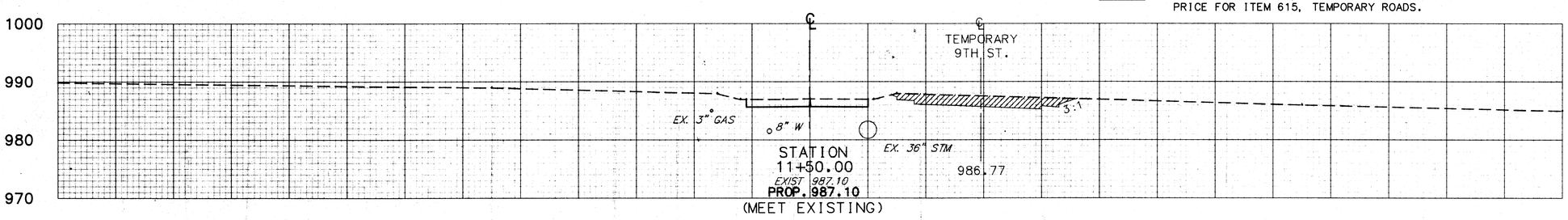
STA. - 241 - 4.22

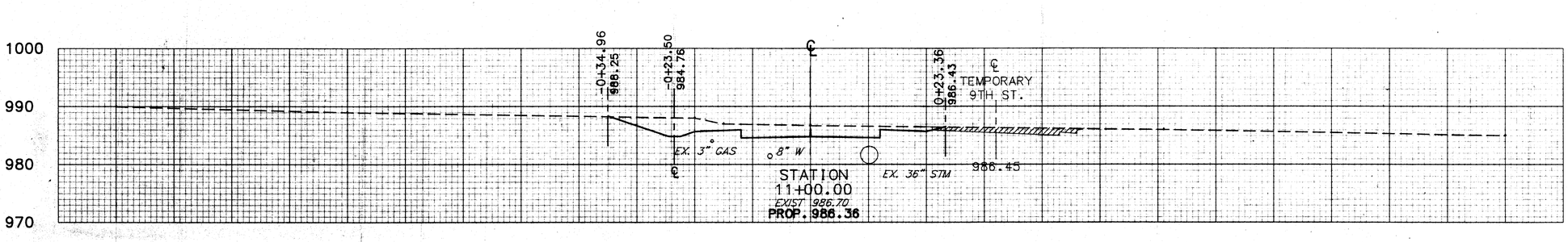
OHIO
FHWA REGION 5

199
303

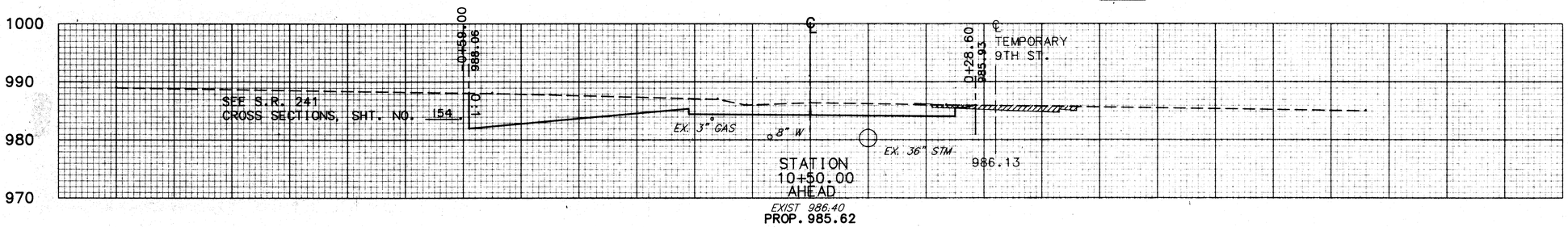
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10

EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY GREENDALE AVE. IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.





EXCAVATION FOR TEMPORARY ROAD INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	30	0		
			122	0
	102	0		
			359	0
AHEAD	285	0		

9TH STREET

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

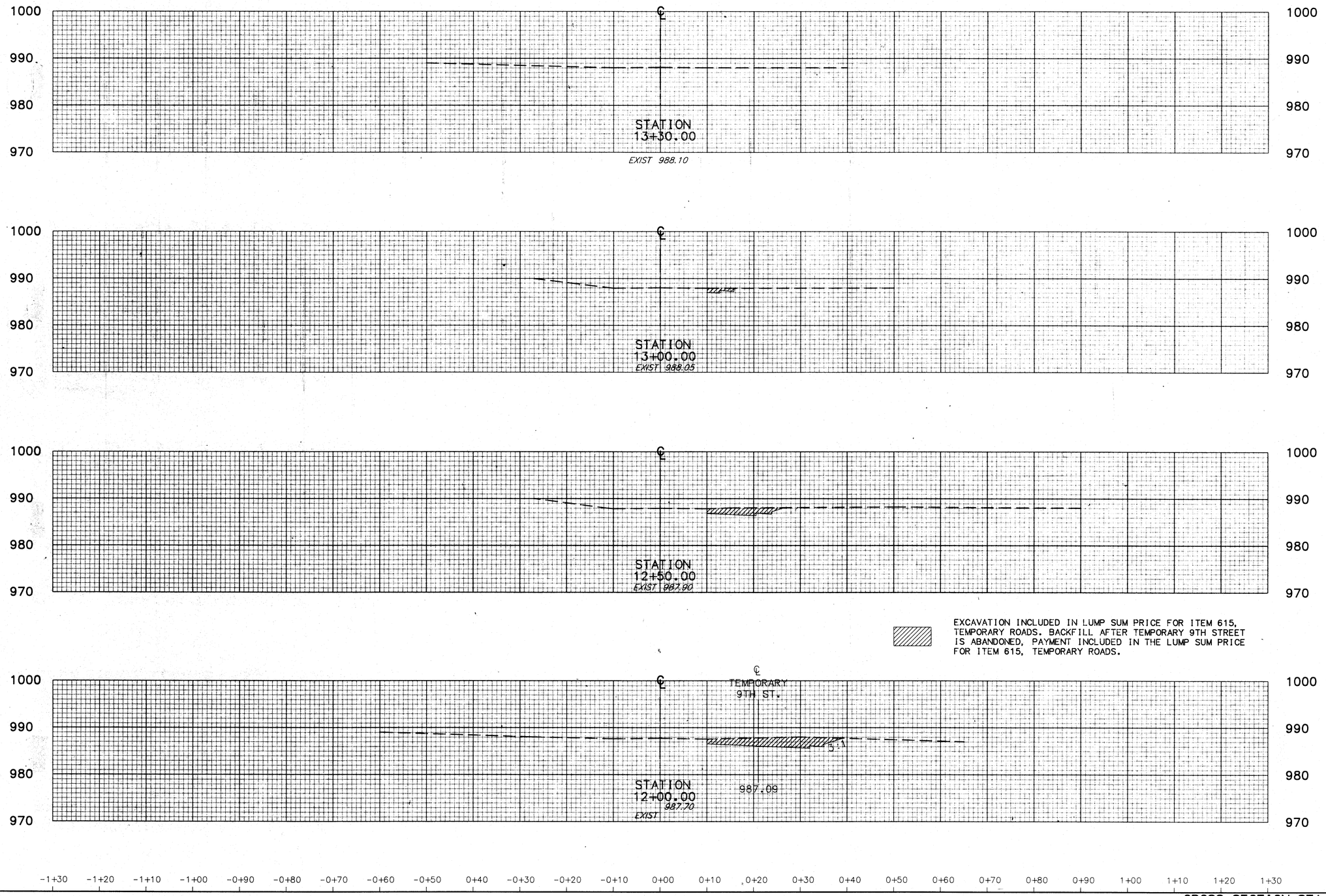
9THSTX2

CROSS SECTION STA. 10+50 TO STA. 11+50

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

200/303

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY 9TH STREET IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

9TH STREET

97HSTX3

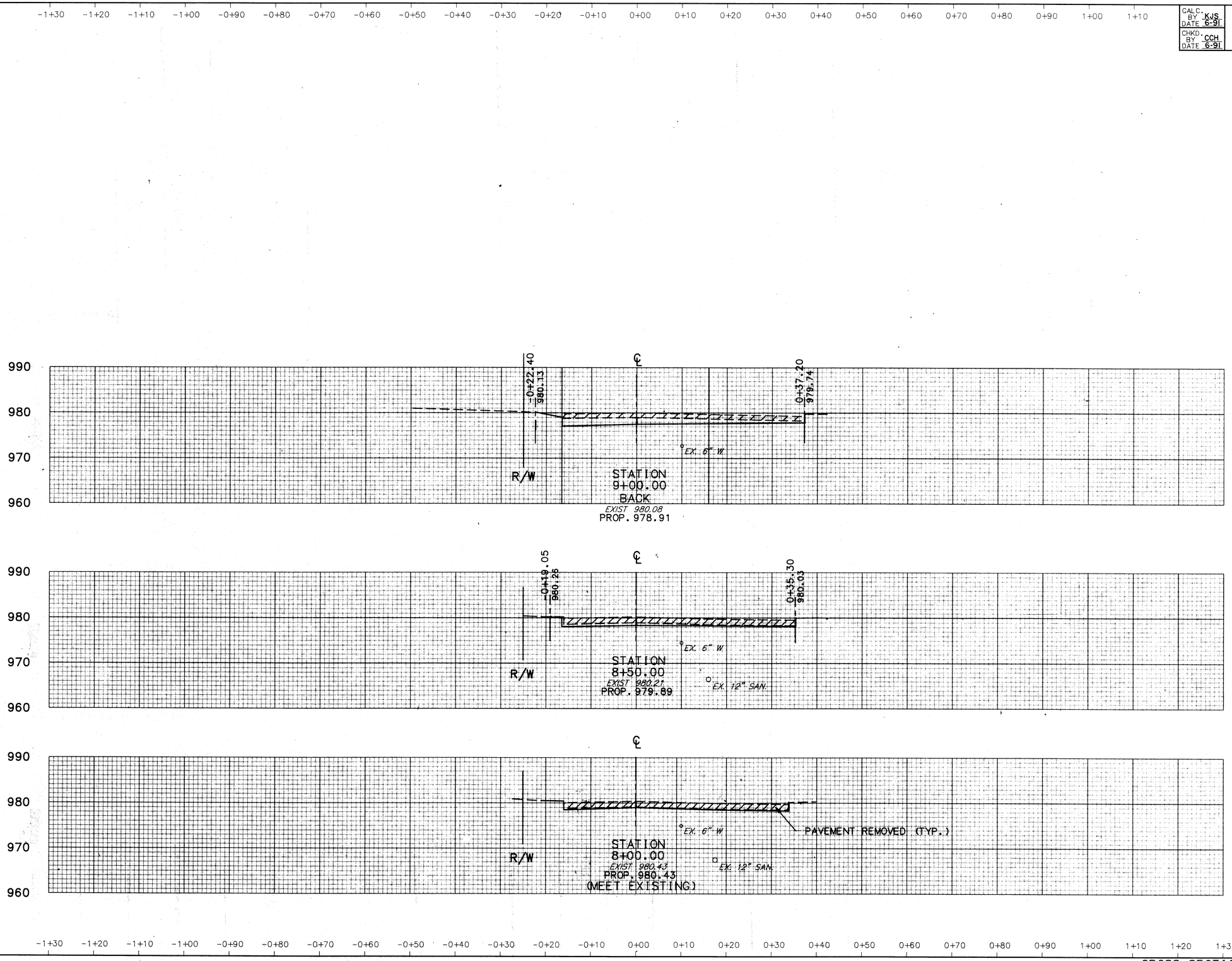
CROSS SECTION STA. 12+00 TO STA. 13+30

CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
BACK	74	0		
			91	0
	24	0		
			34	0
	13	0		

6TH STREET

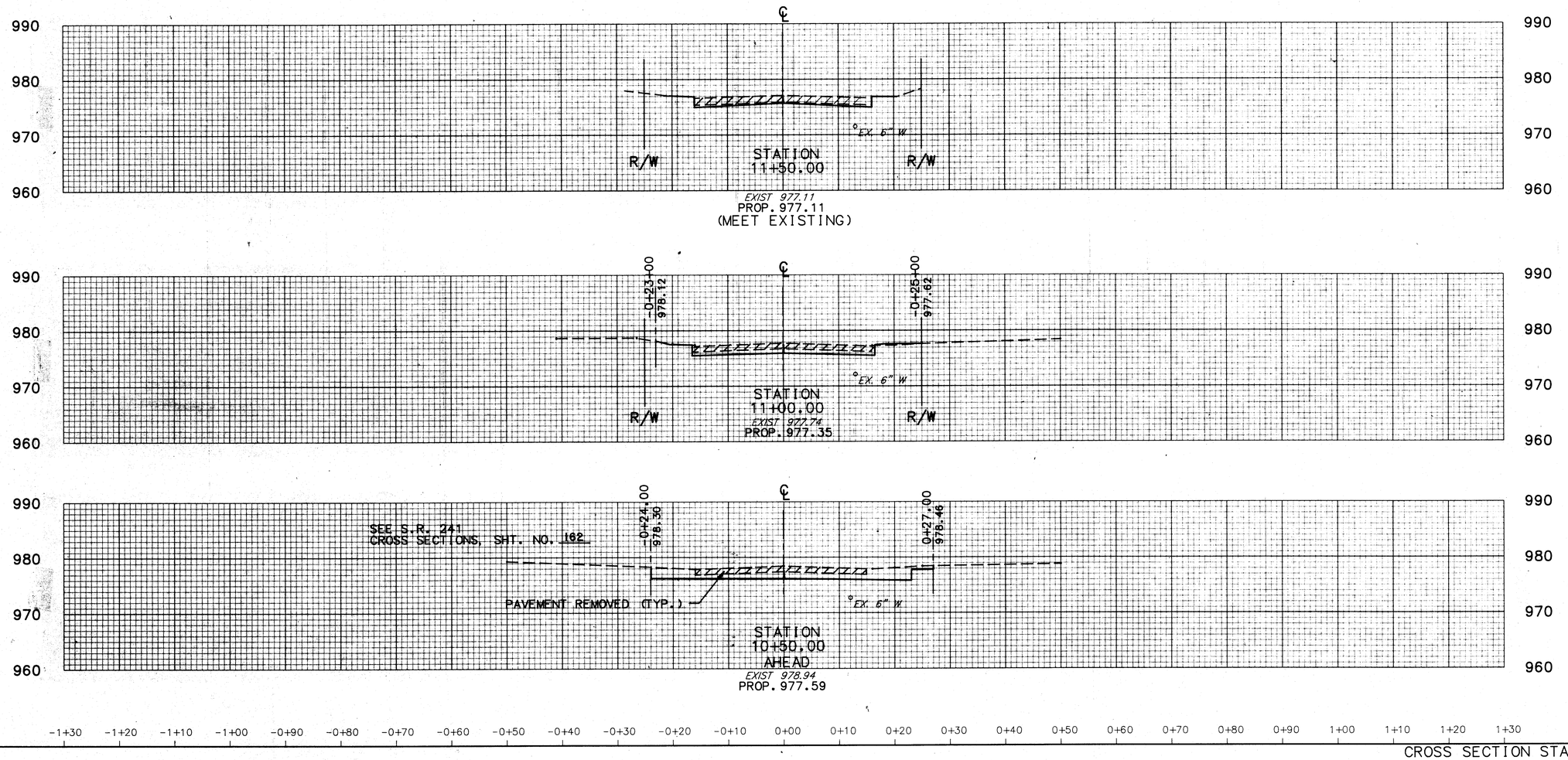
6THSTX1

CROSS SECTION STA. 8+00 TO STA. 9+00

CALC. BY KJS DATE 6-91	STA. - 241 - 4.22	OHIO
CHKD. CCH DATE 6-91		FHWA REGION 5

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-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	20	0		
	33	1	49	1
			92	1
AHEAD	66	0		

6TH STREET

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

6THSTX2

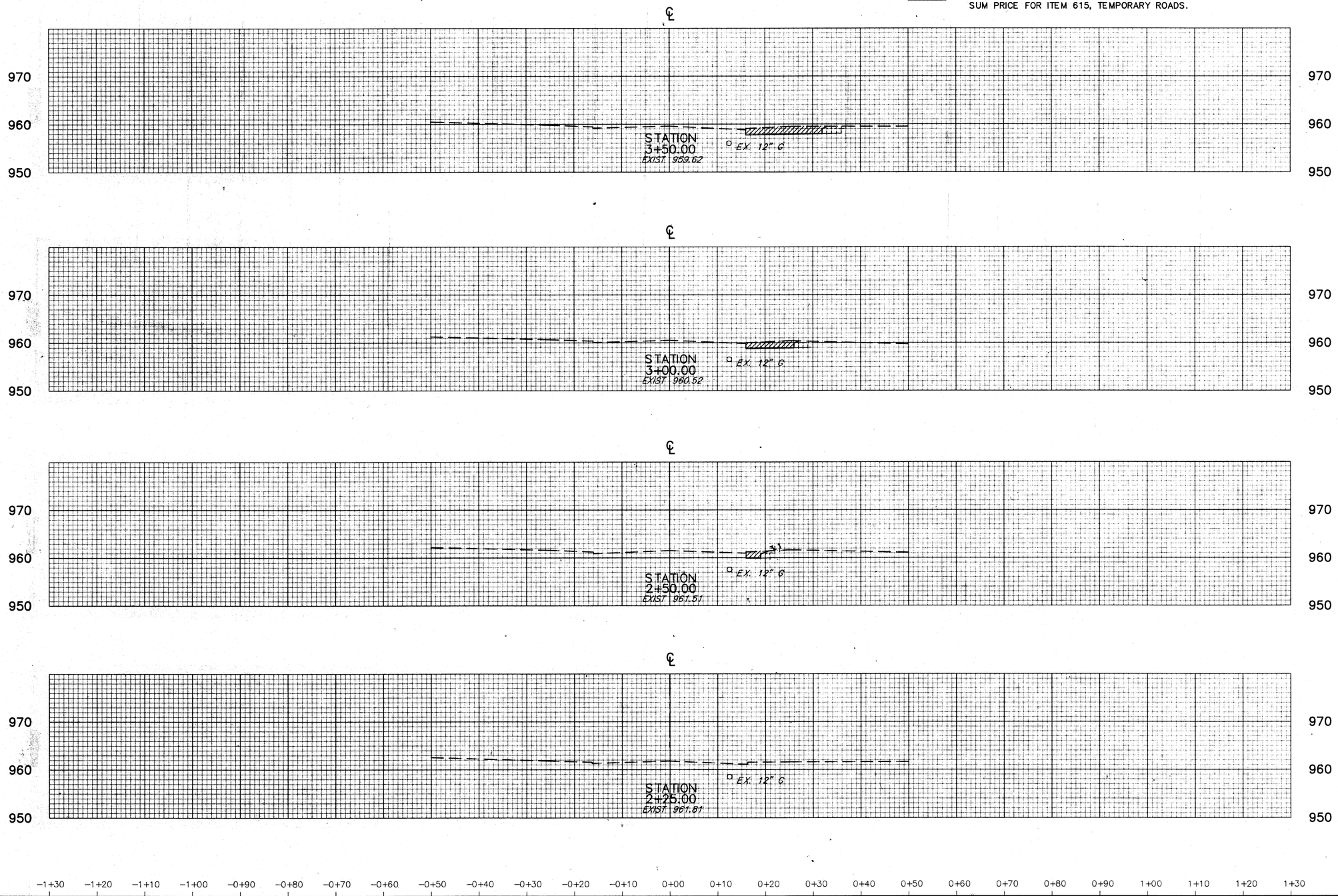
CROSS SECTION STA. 10+50 TO STA. 11+50

CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY CLEVELAND STREET IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CLEVELAND STREET

CLEV10

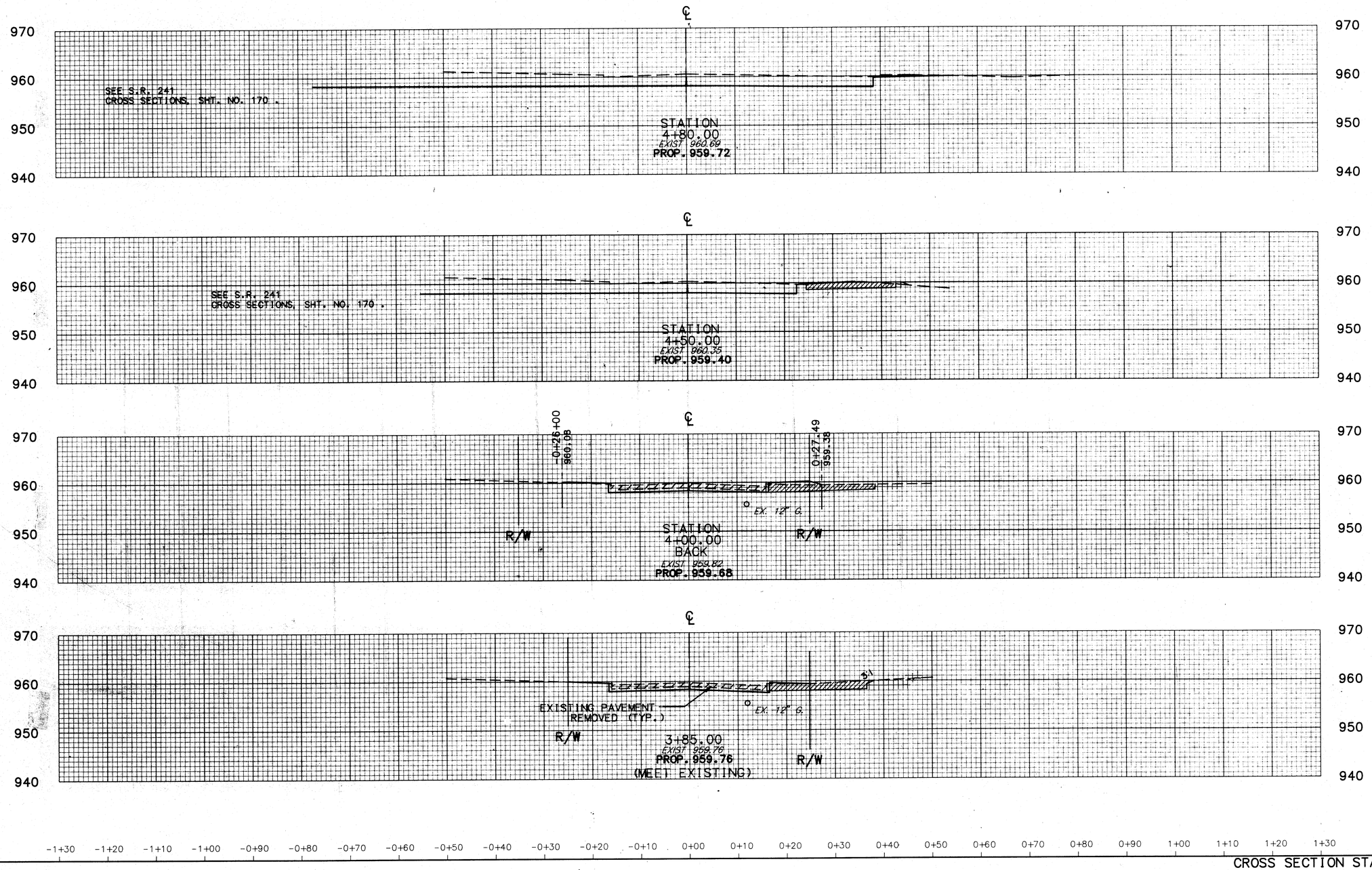
CROSS SECTION STA. 2+00 TO STA. 3+50

CALC. BY KJS DATE 6/91	STA. - 241 - 4.22	OHIO
CHKD. CCH BY DATE 6/91		FHWA REGION 5

204
303

REMOVE TEMPORARY EMBANKMENT AFTER TEMPORARY CLEVELAND STREET IS ABANDONED. PAYMENT INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.

EXCAVATION INCLUDED IN LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS. BACKFILL AFTER TEMPORARY CLEVELAND STREET IS ABANDONED, PAYMENT INCLUDED IN THE LUMP SUM PRICE FOR ITEM 615, TEMPORARY ROADS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
17	6		
		9	2
16	1		

BACK

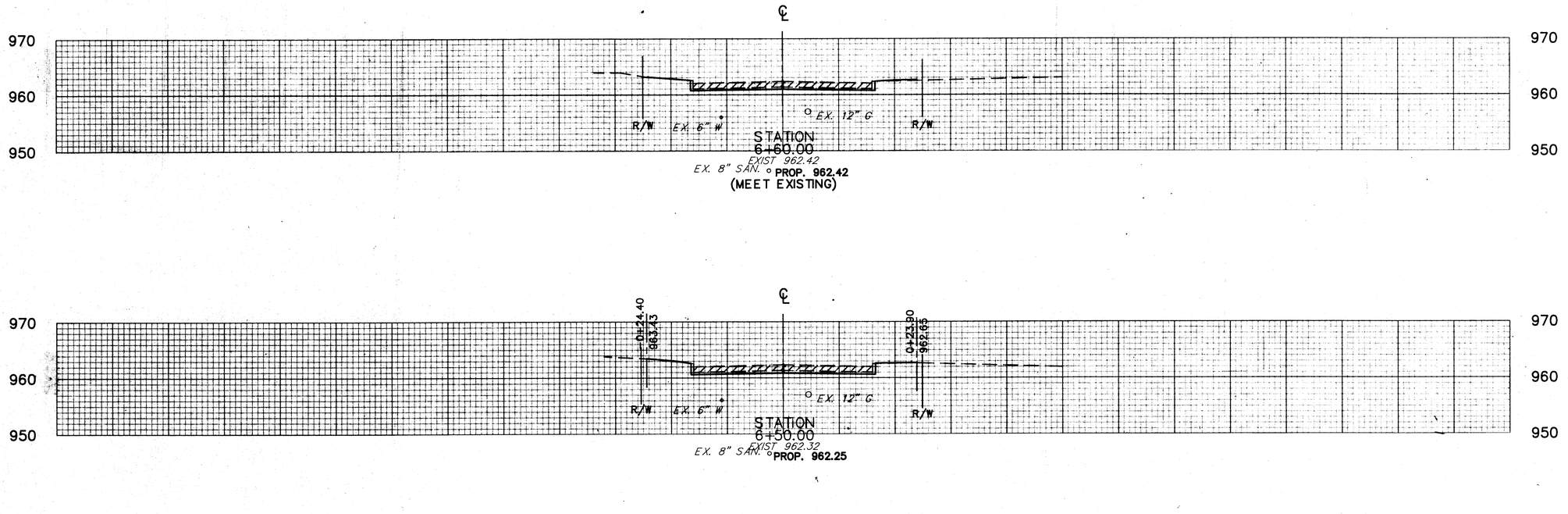
CLEVELAND STREET

CROSS SECTION STA. 3+85 TO STA. 4+80

CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

205/303

−1+30 −1+20 −1+10 −1+00 −0+90 −0+80 −0+70 −0+60 −0+50 −0+40 −0+30 −0+20 −0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10



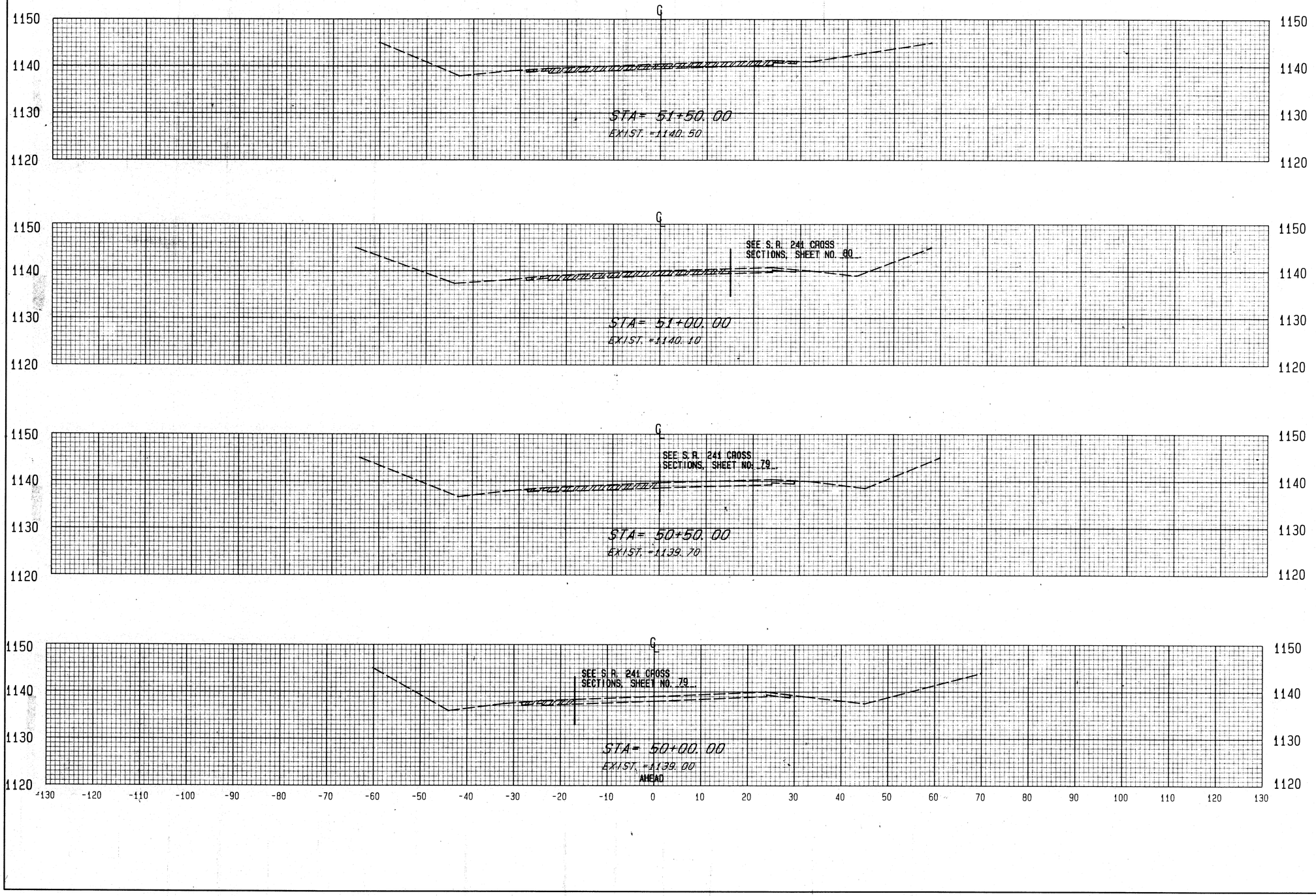
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	19	0		
			8	0
	20	0		
			81	0
AHEAD	68	0		

CLEVELAND STREET

CLEVX3

CROSS SECTION STA. 6+00 TO STA. 6+60

CALC. BY K.W.S. DATE 8-91	STA - 241 - 4.22	OHIO	206
CHKD. BY C.C.H. DATE 8-91		FHWA REGION 5	303



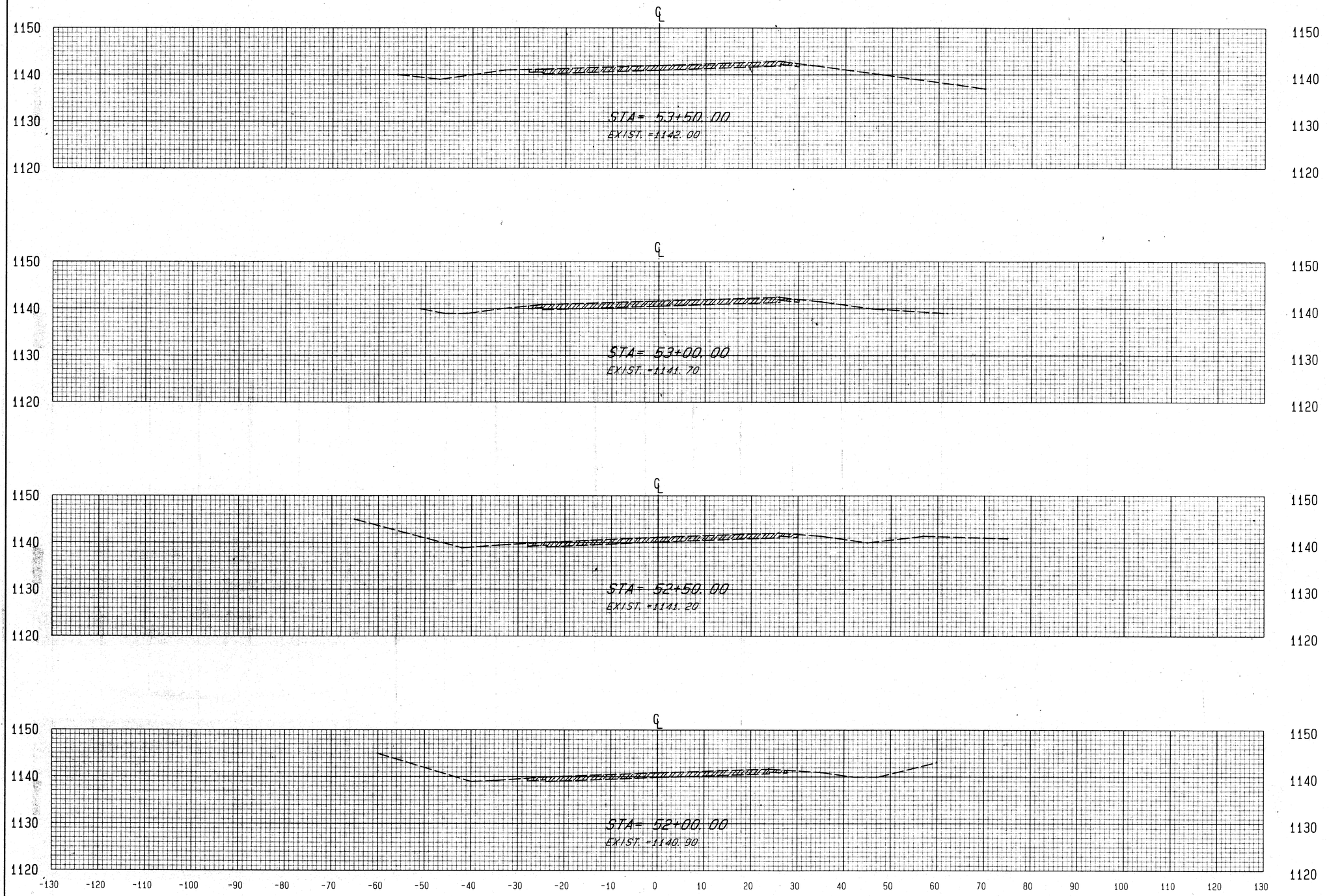
END AREA		VOLUME	
CUT	FILL	CUT	FILL
53	53		
		87	87
41	41		
		62	62
26	26		
		32	32
AHEAD 9	9		

EXISTING MILLERSBURG ROAD

CROSS SECTIONS STA. 50+00 TO STA. 51+50

CALC. BY K.J.S. DATE 6-91	STA - 241 - 4.22	OHIO
CHKD. BY C.C.H. DATE 6-91		FHWA REGION 5

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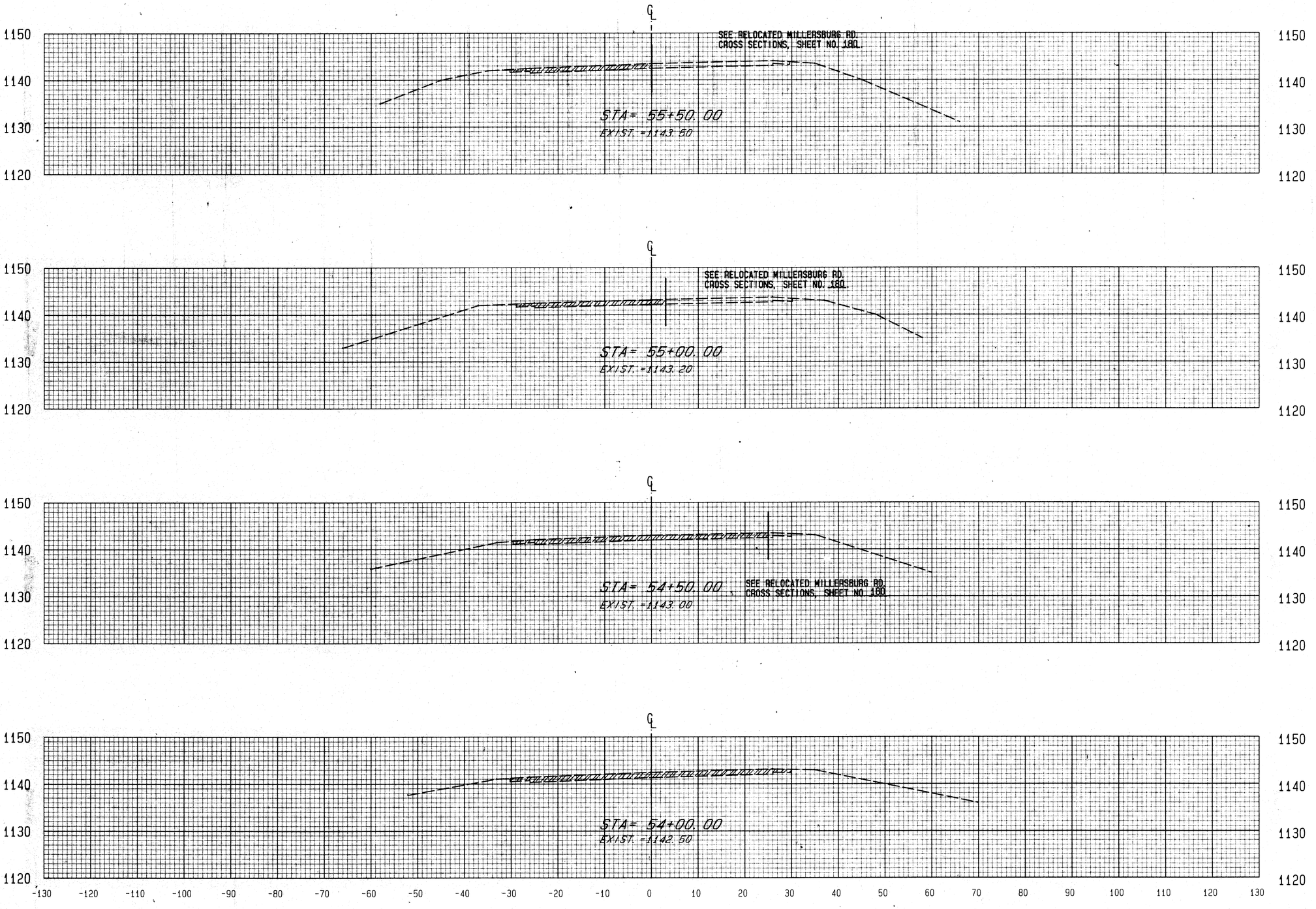
END AREA		VOLUME	
CUT	FILL	CUT	FILL
55	55		
		102	102
55	55		
		101	101
54	54		
		98	98
52	52	97	97

EXISTING MILLERSBURG ROAD

CROSS SECTIONS STA. 52+00 TO STA. 53+50

CALC. BY K.J.S. DATE 6-91	STA - 241 - 4.22	OHIO
CHKD. BY C.C.H. DATE 6-91		FHWA REGION 5

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303



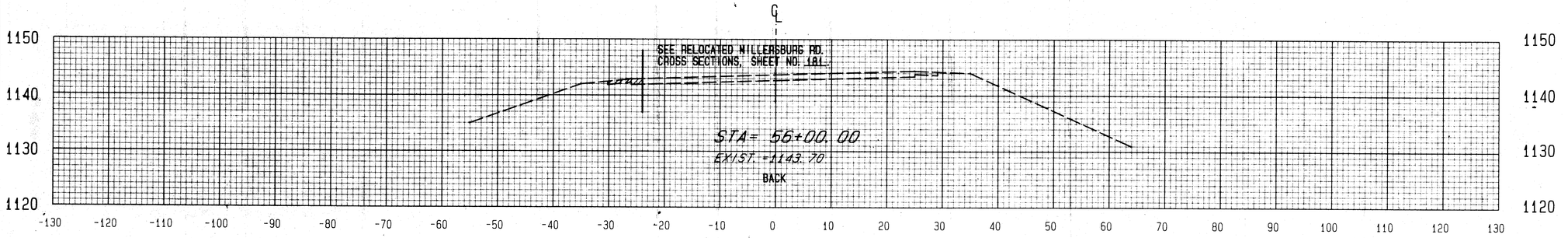
END AREA		VOLUME	
CUT	FILL	CUT	FILL
28	28		
		54	54
30	30		
		76	76
52	52		
		100	100
56	56		
		103	103

EXISTING MILLERSBURG ROAD

CROSS SECTIONS STA. 54+00 TO STA. 55+50

CALC. BY K.J.S. DATE 6-91	STA - 241 - 4.22	OHIO	209
CHKD. BY C.C.H. DATE 6-91		FHWA REGION 5	303

END AREA		VOLUME	
CUT	FILL	CUT	FILL
BACK	5	5	
		31	31



EXISTING MILLERSBURG ROAD

CROSS SECTIONS STA. 56+00

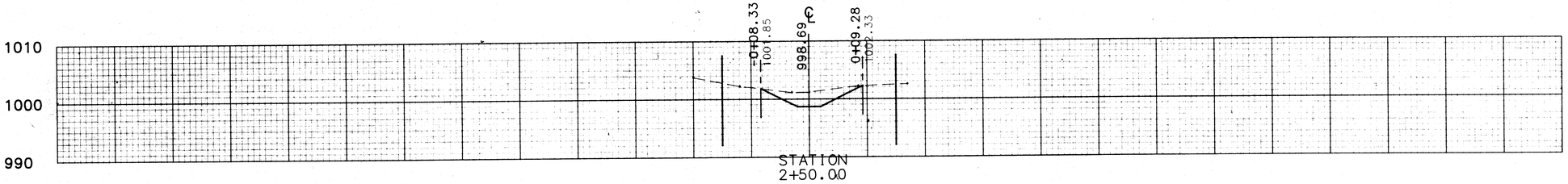
-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 +60 0+70 0+80 0+90 1+00 1+10

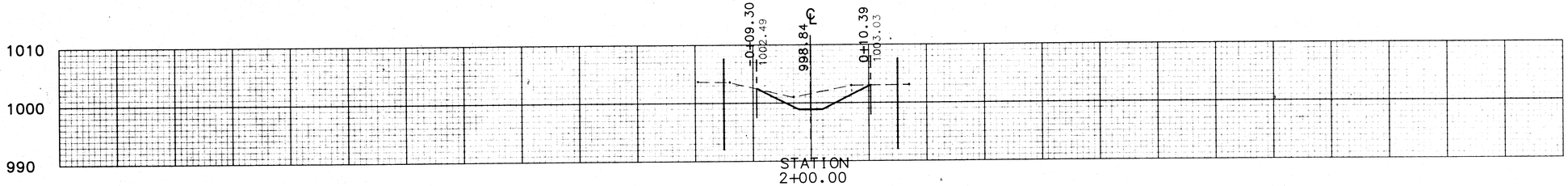
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

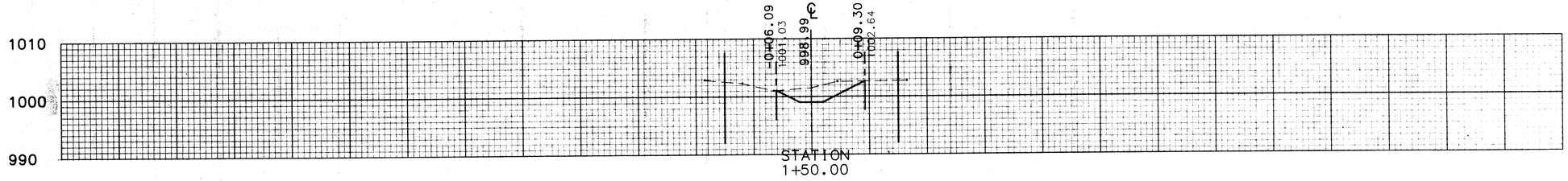
STA. - 241 - 4.22

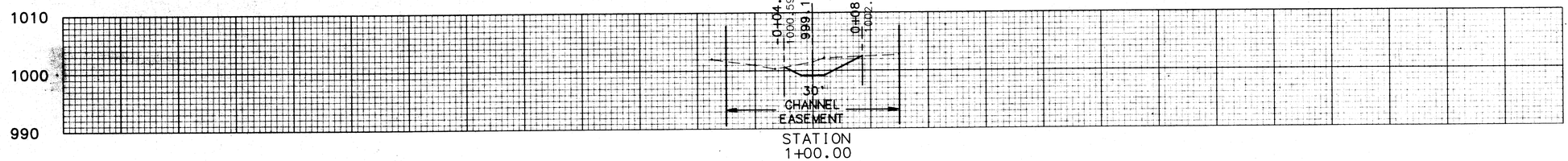
OHIO
FHWA REGION 5

210
303









END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	0		
		57	0
34	0		
		57	0
28	0		
		47	0
23	0		

-1+30 -1+20 -1+10 -1+00 -0+90 -0+80 -0+70 -0+60 -0+50 -0+40 -0+30 -0+20 -0+10 0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30

CROSS SECTION STA. 1+00 TO STA. 2+50

CHANNEL DEEPENING TO LINDSEY DITCH

CHANX1

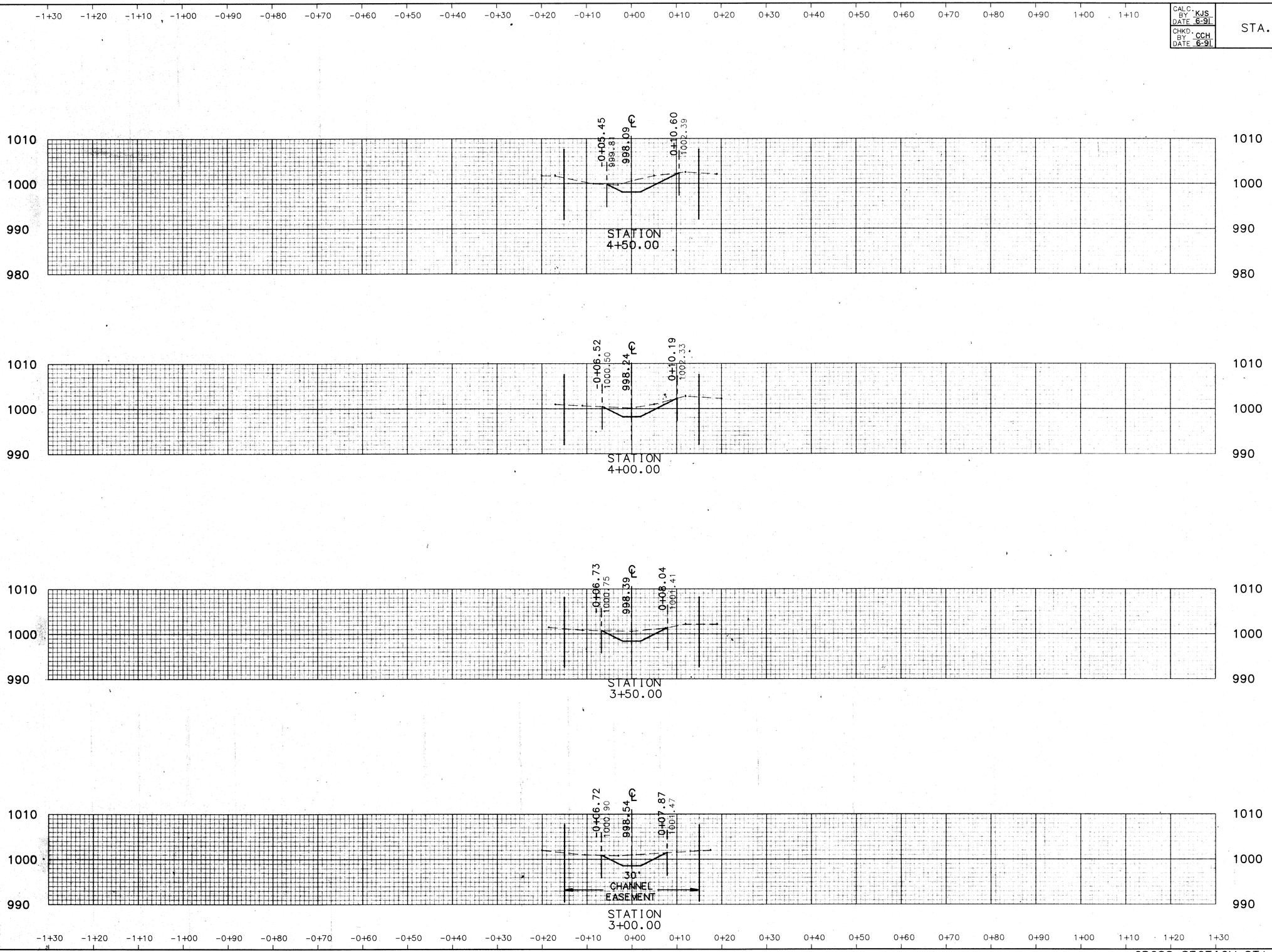
CALC. BY KJS DATE 6-91
CHKD. BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO

FHWA REGION 5

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END AREA		VOLUME	
CUT	FILL	CUT	FILL
26	0		
		45	0
22	0		
		40	0
22	0		
		41	0
23	0		
		48	0

CHANNEL DEEPENING TO LINDSEY DITCH

CHANX2

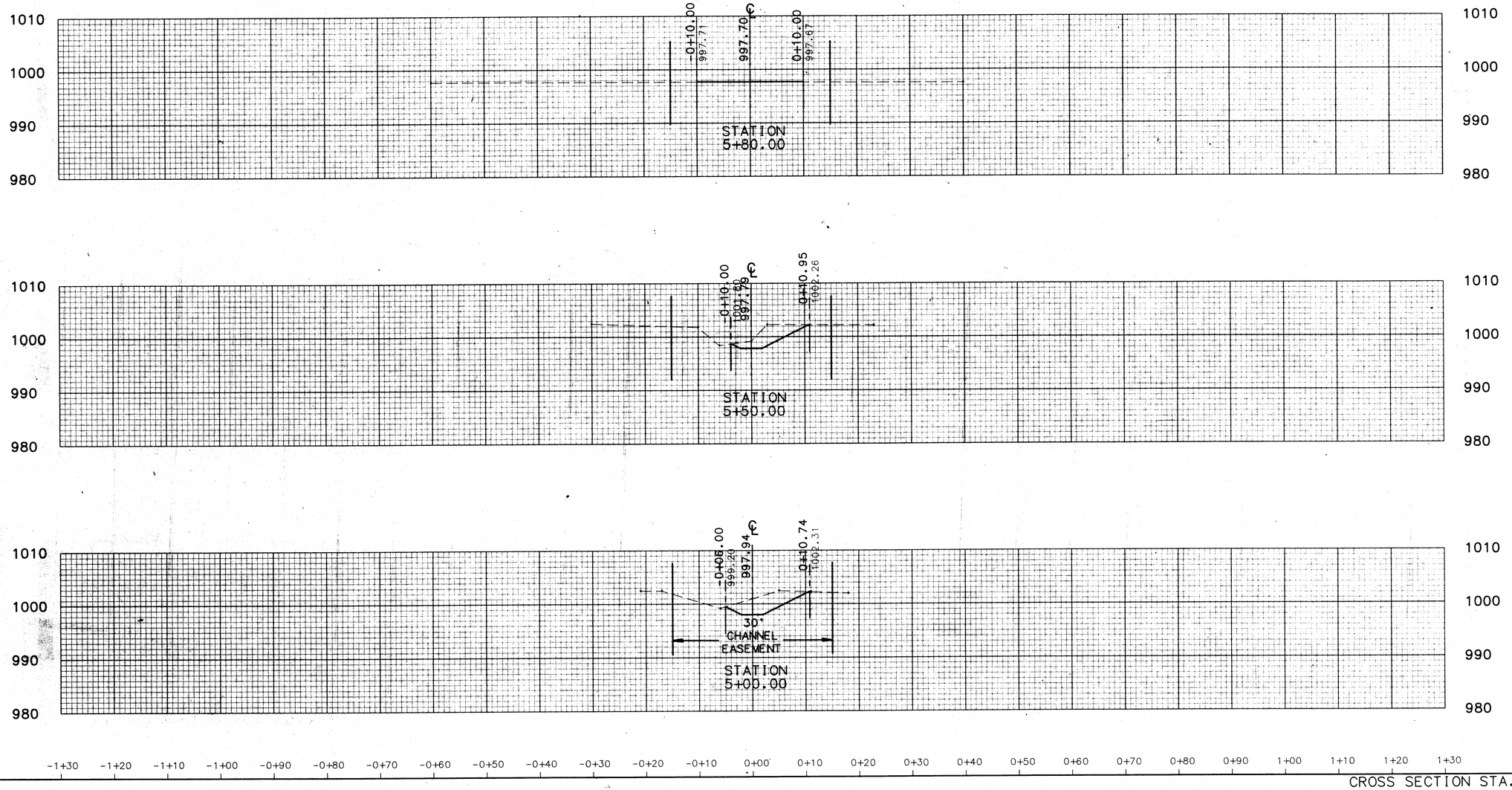
CROSS SECTION STA. 3+00 TO STA. 4+50

CALC BY KJS DATE 6-91
CHKD BY CCH DATE 6-91

STA. - 241 - 4.22

OHIO
FHWA REGION 5

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303



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		16	0
28	0		
		59	0
36	0		
		57	0

CHANNEL DEEPENING TO LINDSEY DITCH

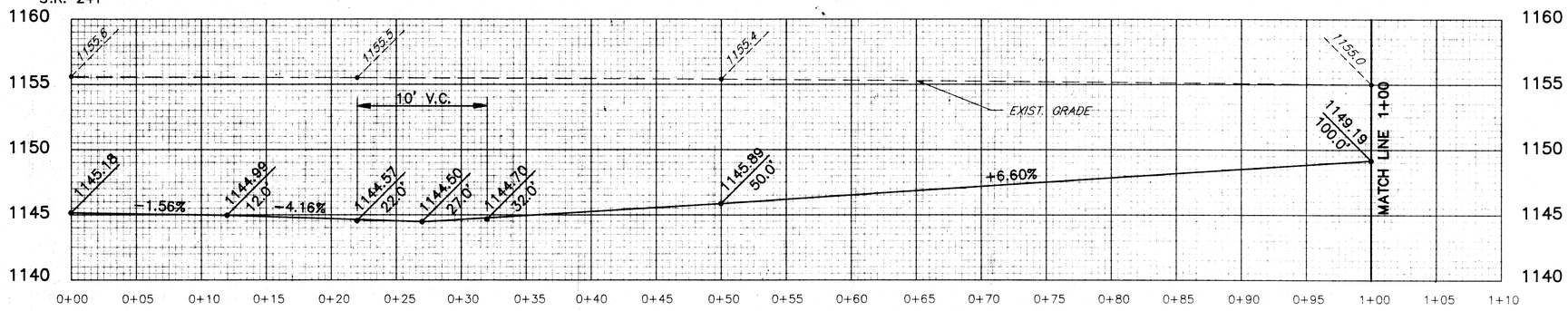
CHANX3

CROSS SECTION STA. 5+00 TO STA. 5+80

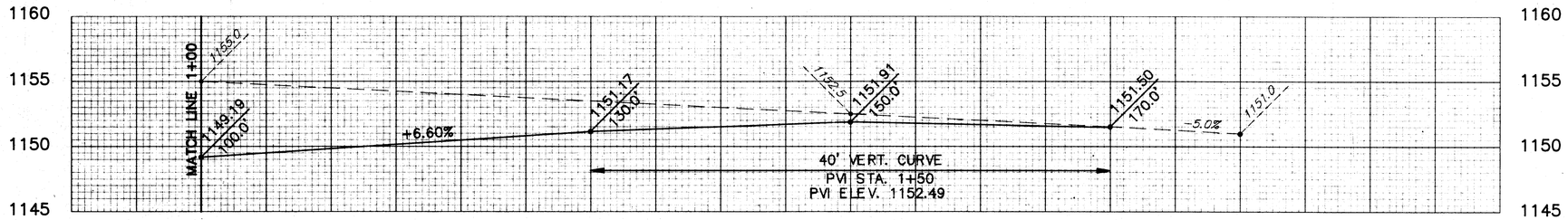
CALC. BY RGV DATE 6/91	STA-241-4.22	OHIO
CHKD. BY KJS DATE 6/91		FHWA REGION 5

213
303

℄ S.R. 241

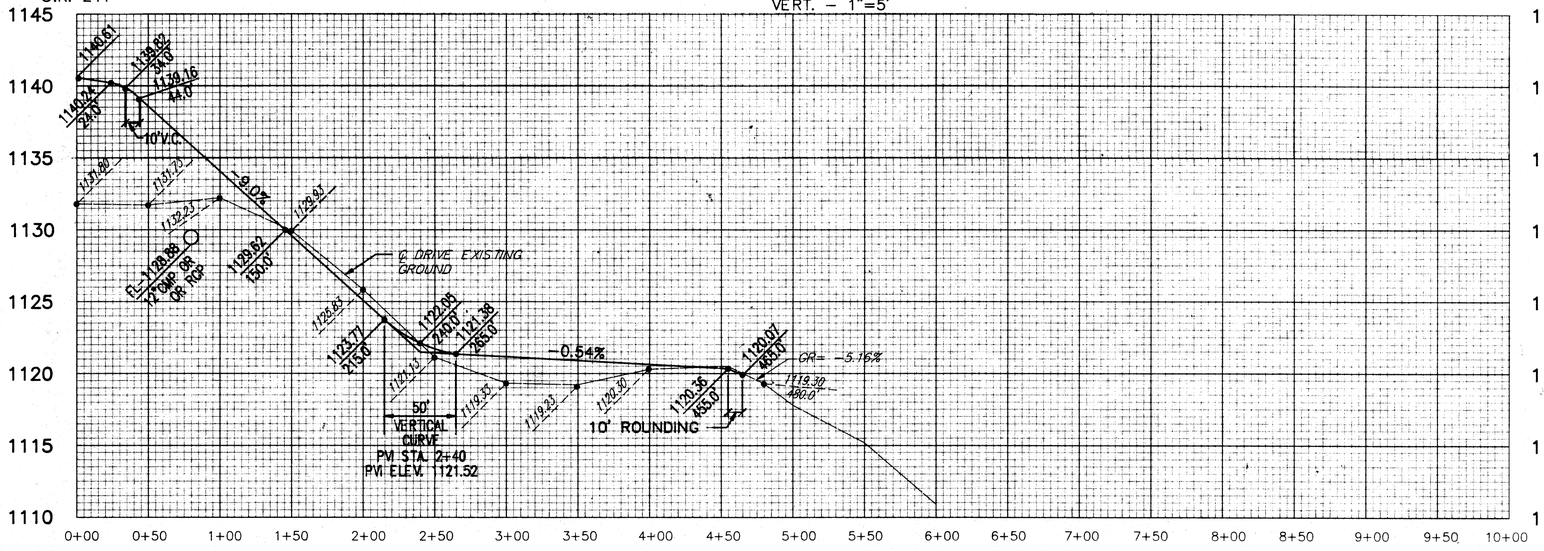


STA. 42+00, EAST DRIVE
10' GRAVEL DRIVE
SCALE: HORZ. – 1"=5'
VERT. – 1"=5'



STA. 42+00, EAST DRIVE
10' GRAVEL DRIVE
SCALE: HORZ. – 1"=5'
VERT. – 1"=5'

℄ S.R. 241



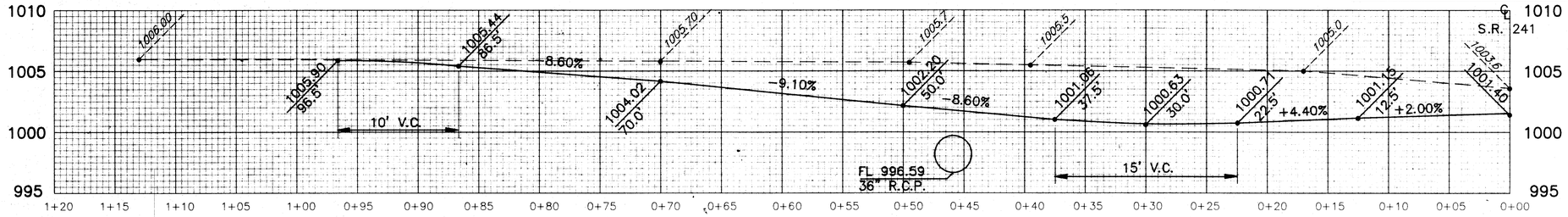
FIELD DRIVE, STA. 21+50 (S.R. 241)
10' GRAVEL DRIVE
SCALE: HORZ. – 1"=50'
VERT. – 1"=5'

DRPROF0

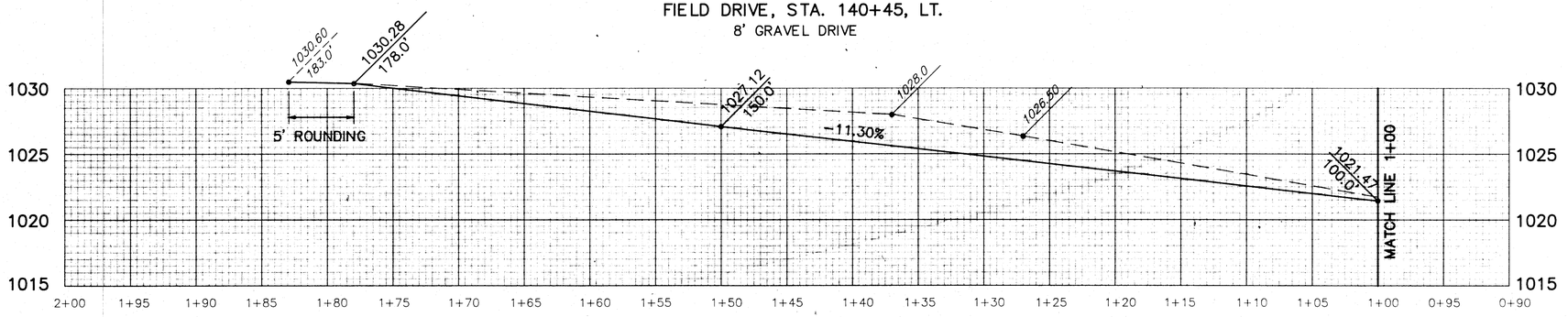
STATE ROUTE 241

DRIVEWAY PROFILES

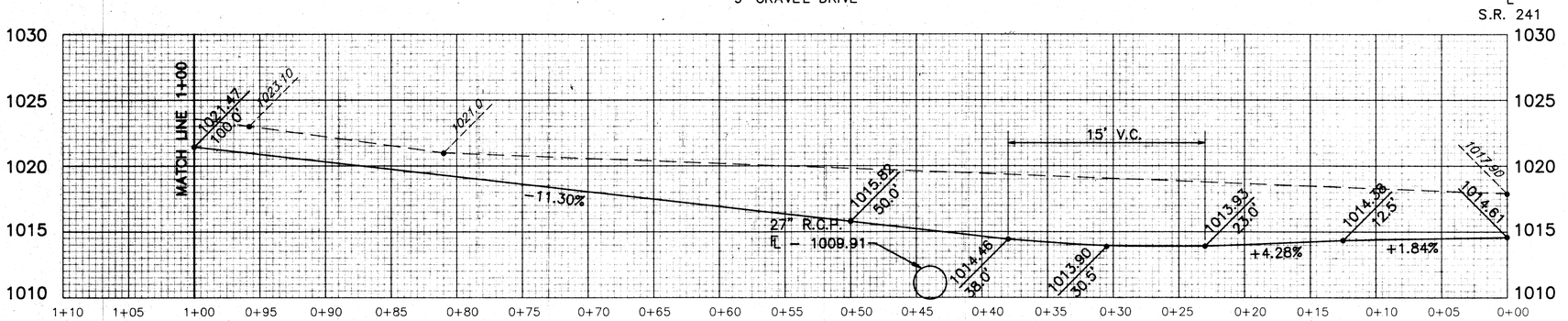
CALC. BY R.V. DATE 6/91	STA–241–4.22	OHIO	214
CHKD. BY K.S. DATE 6/91		FHWA REGION 5	303



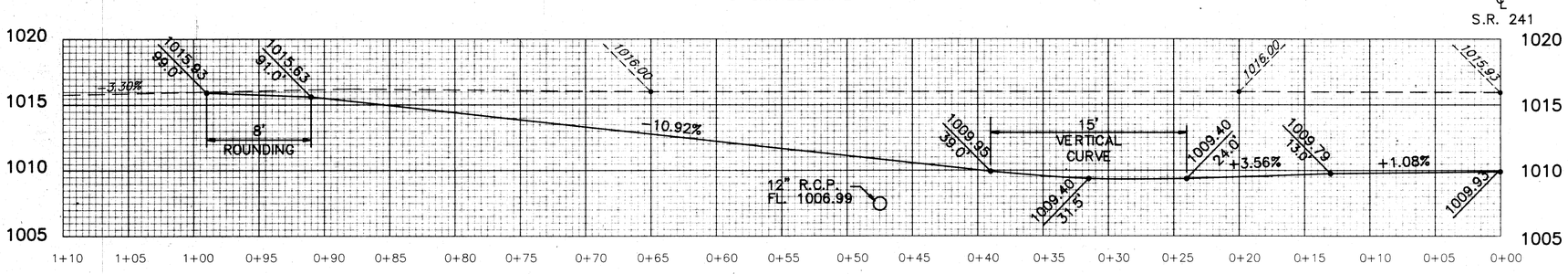
FIELD DRIVE, STA. 140+45, LT.
8' GRAVEL DRIVE



STA. 130+00, NORTH DRIVE
9' GRAVEL DRIVE



STA. 130+00, NORTH DRIVE
9' GRAVEL DRIVE



STA.· 108+36, NORTH DRIVE
GRAVEL DRIVE

SCALE: HORZ. – 1"=5'
VERT. – 1"=5"

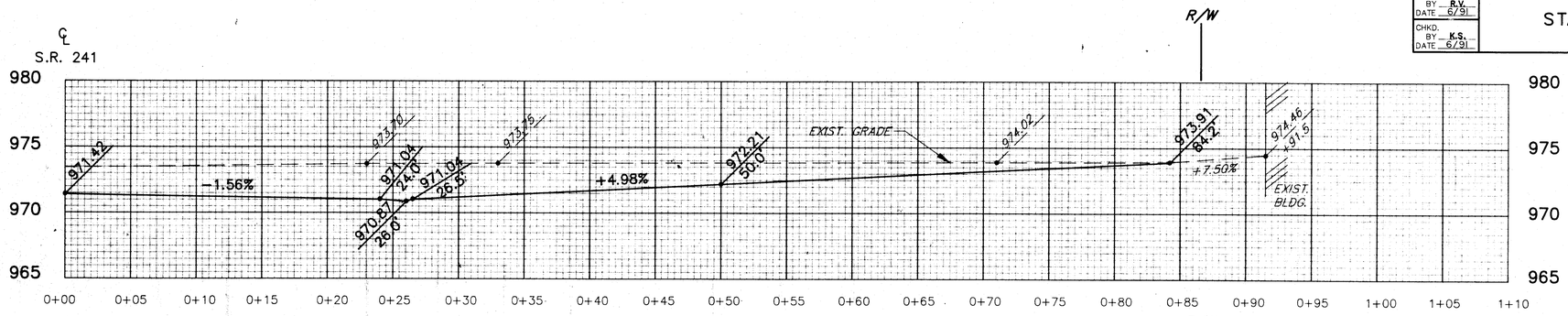
STATE ROUTE 241

DRPROF1

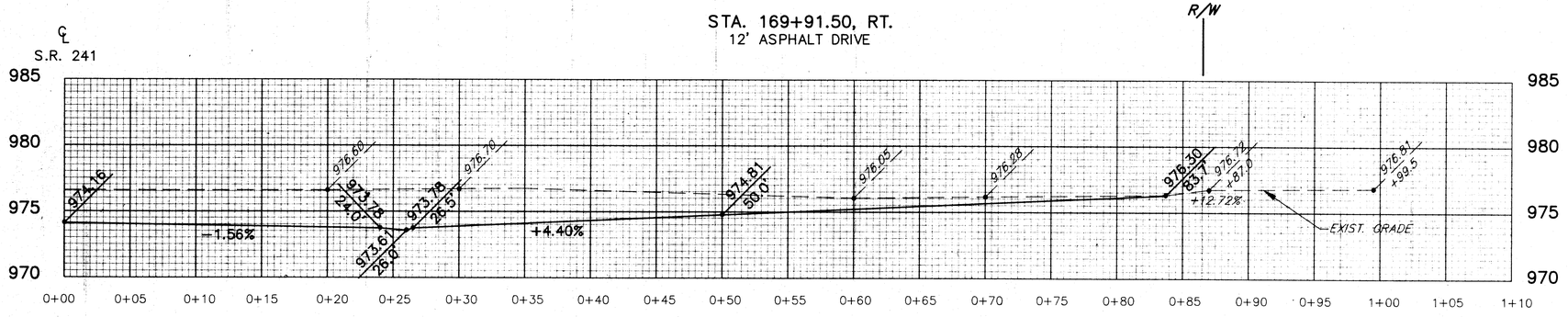
DRIVE PROFILES

CALC. BY R.V. DATE 6/91	STA-241-4.22	OHIO
CHKD. BY K.S. DATE 6/91		FHWA REGION 5

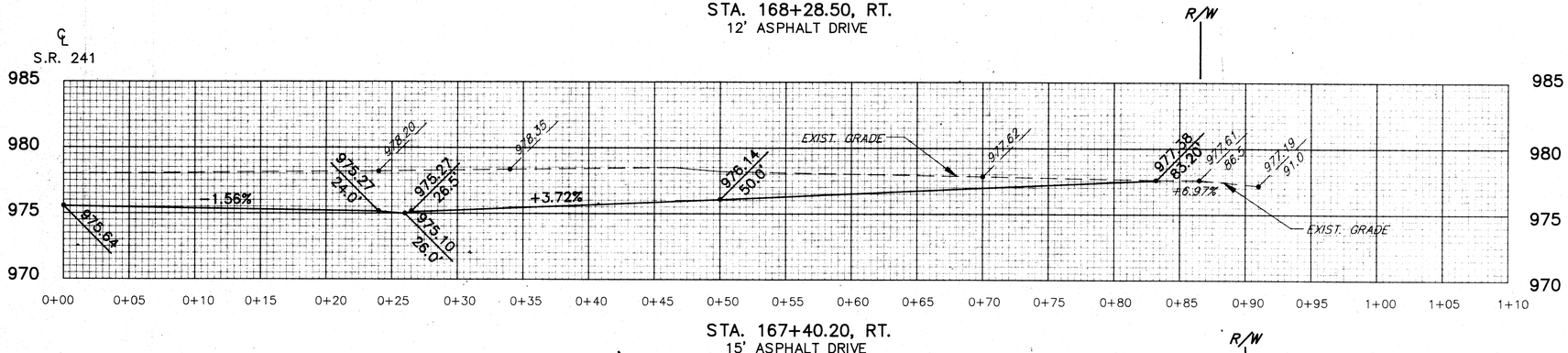
215
303



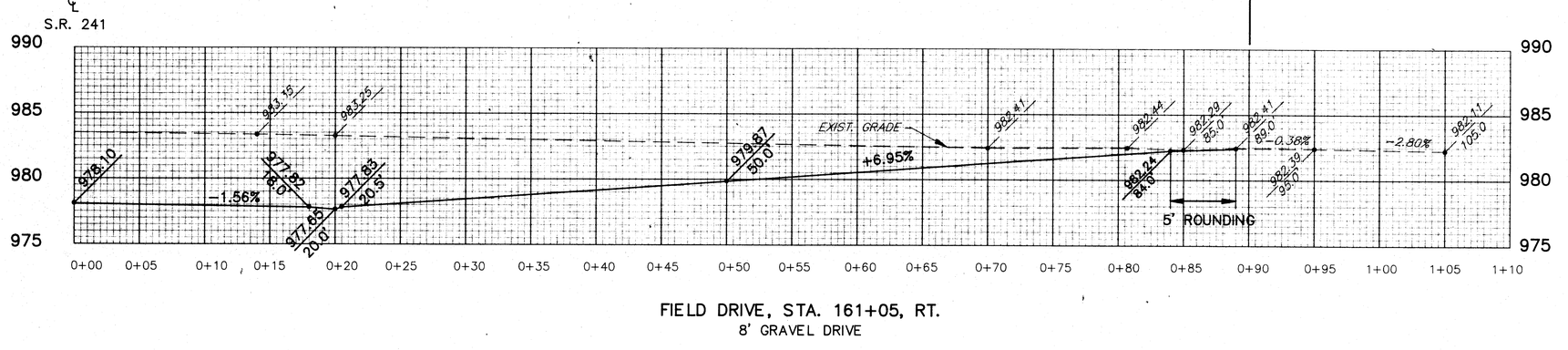
STA. 169+91.50, RT.
12' ASPHALT DRIVE



STA. 168+28.50, RT.
12' ASPHALT DRIVE



STA. 167+40.20, RT.
15' ASPHALT DRIVE



FIELD DRIVE, STA. 161+05, RT.
8' GRAVEL DRIVE

SCALE: HORZ. – 1"=5'
VERT. – 1"=5'

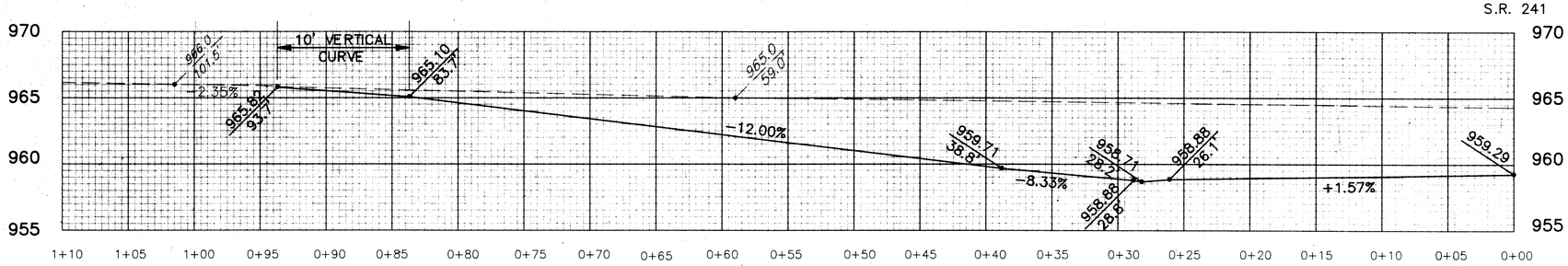
STATE ROUTE 241

DRPROF2

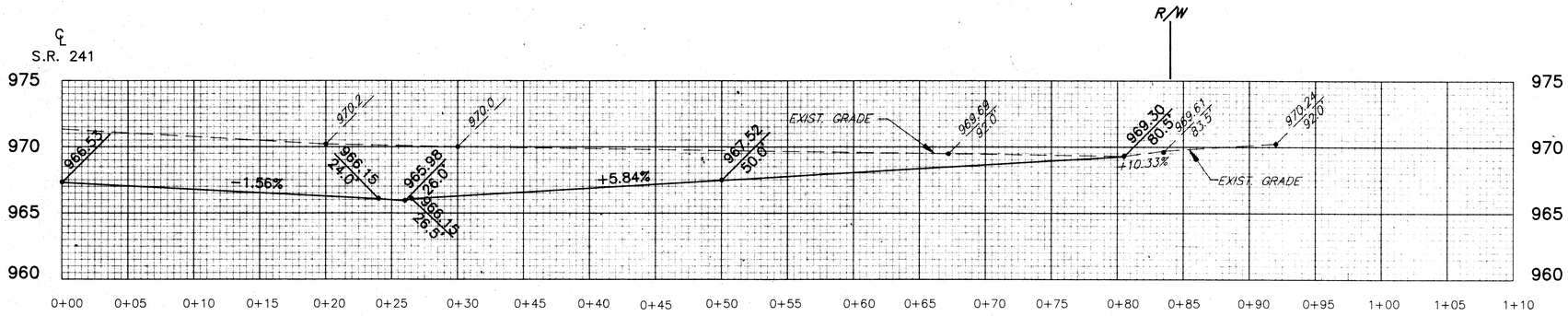
DRIVE PROFILES

CALC. BY R.V. DATE 6/91	STA-241-4.22	OHIO
CHKD. BY K.S. DATE 6/91		FHWA REGION 5

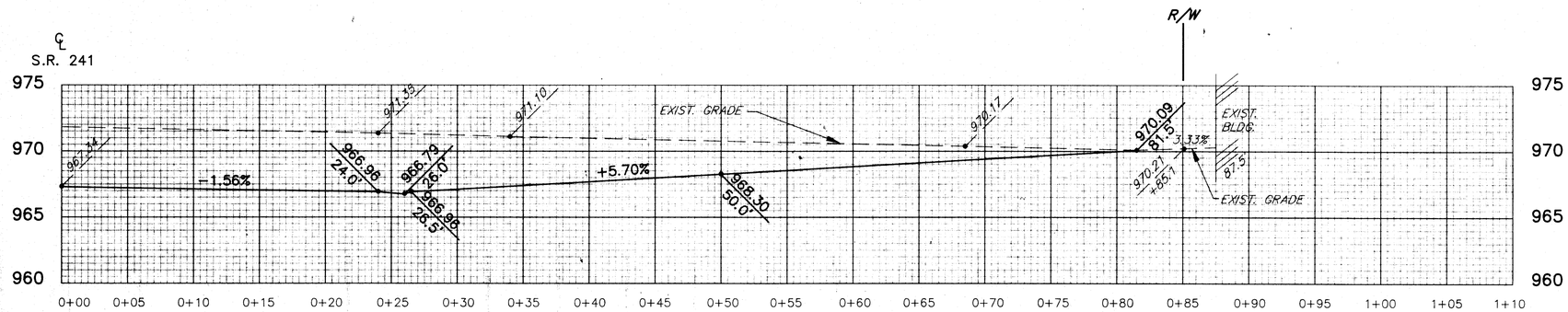
216
303



STA. 180+48.00, LT.
10' ASPHALT DRIVE



STA. 172+83.19, RT.
21' ASPHALT DRIVE



STA. 172+34.66, RT.
13' ASPHALT DRIVE

SCALE: HORZ. – 1"=5'
VERT. – 1"=5'

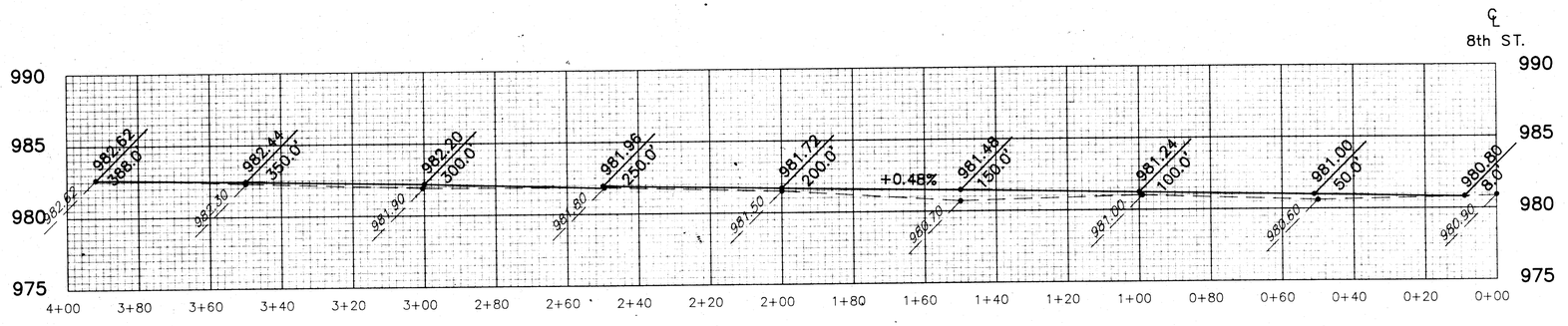
STATE ROUTE 241

DRPROF3

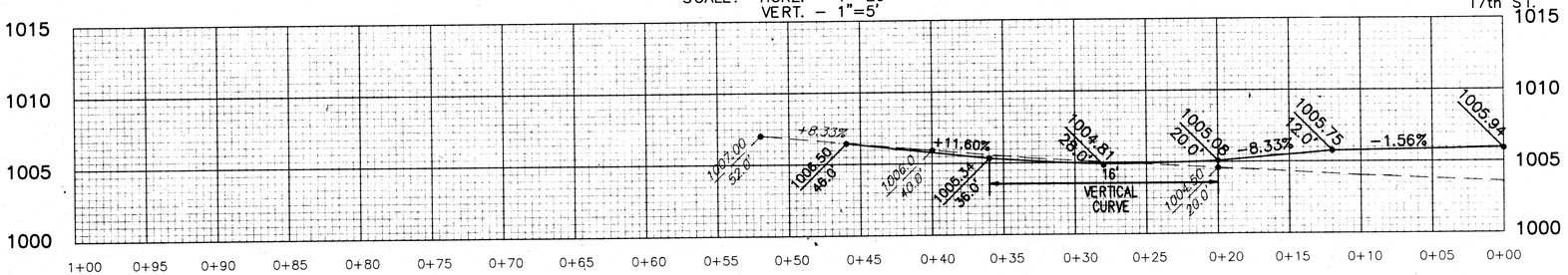
DRIVE PROFILES

CALC. BY P.V. DATE 6/91	STA-241-4.22	OHIO
CHKD. BY K.S. DATE 6/91		FHWA REGION 5

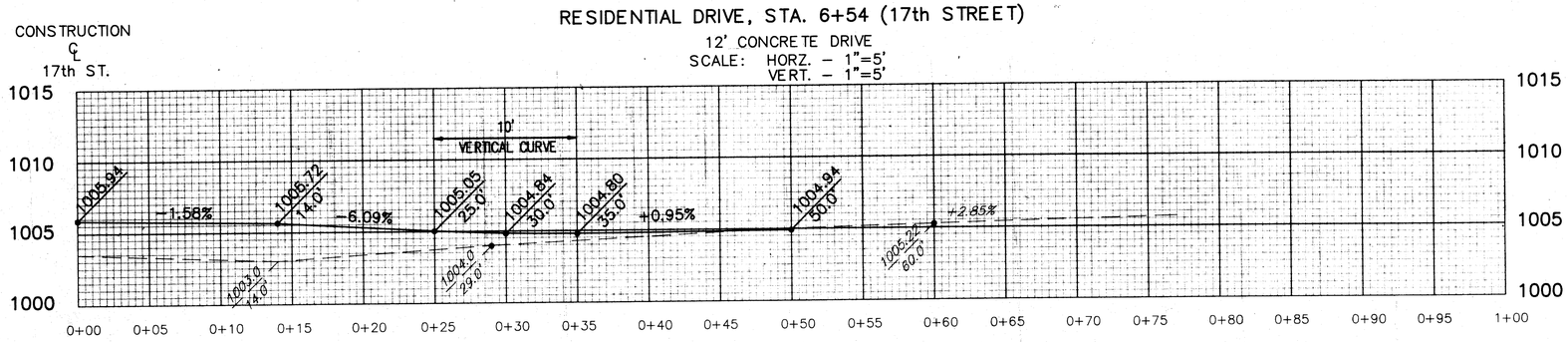
217
303



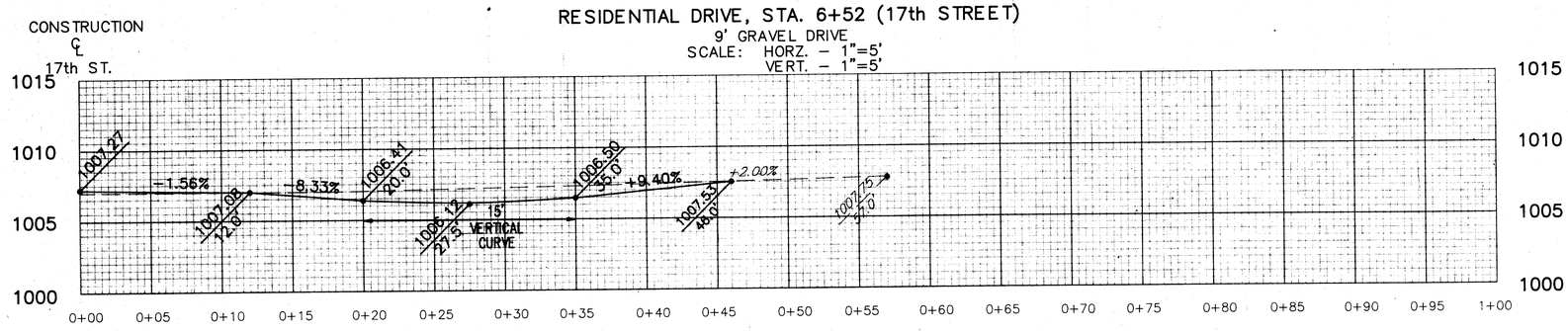
8TH STREET, STA. 10+97.00, LT.
20' GRAVEL DRIVE
SCALE: HORZ. – 1"=20'
VERT. – 1"=5'



RESIDENTIAL DRIVE, STA. 6+54 (17th STREET)
12' CONCRETE DRIVE
SCALE: HORZ. – 1"=5'
VERT. – 1"=5'



RESIDENTIAL DRIVE, STA. 6+52 (17th STREET)
9' GRAVEL DRIVE
SCALE: HORZ. – 1"=5'
VERT. – 1"=5'



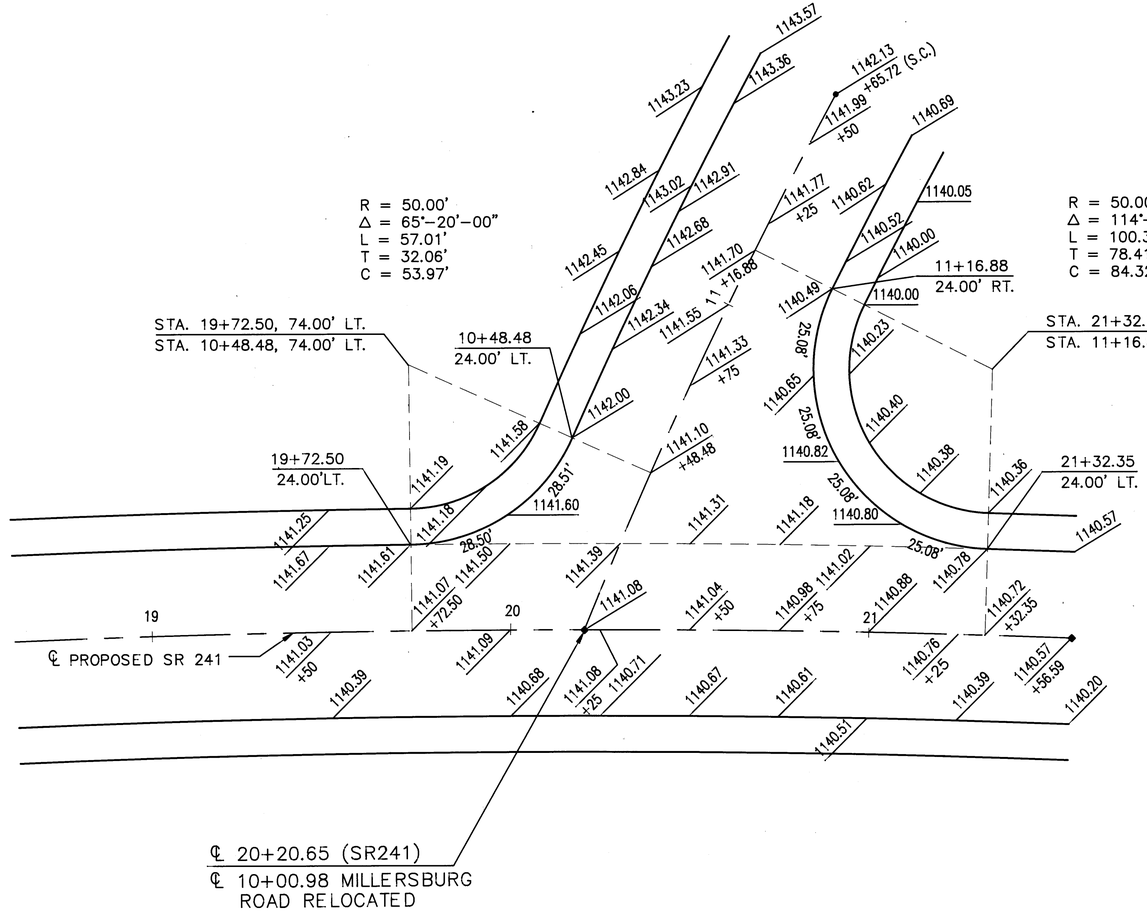
RESIDENTIAL DRIVE, STA. 5+23 (17th STREET)
9' GRAVEL DRIVE
SCALE: HORZ. – 1"=5'
VERT. – 1"=5'

DRPROF4

STATE ROUTE 241

SIDESTREET DRIVE PROFILES

CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO	218
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303



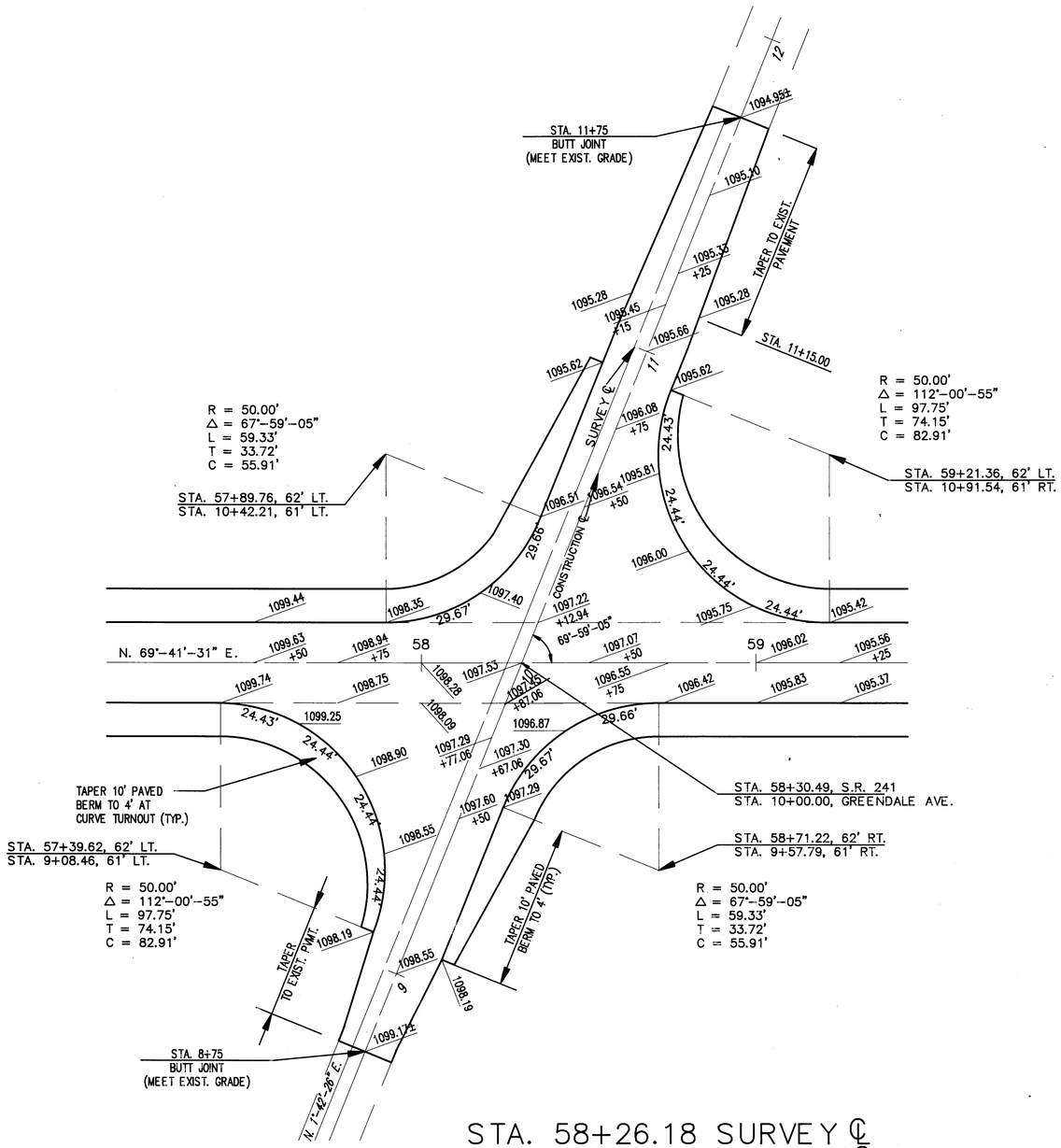
℄ ℄ STA. 20+20.65 (S.R. 241)
RELOCATED MILLERSBURG ROAD

SCALE : 1" = 20'

STATE ROUTE 241

CALC. BY RGV DATE 6/91	STA–241–4.22	OHIO
CHKD. BY KJS DATE 6/91		FHWA REGION 5

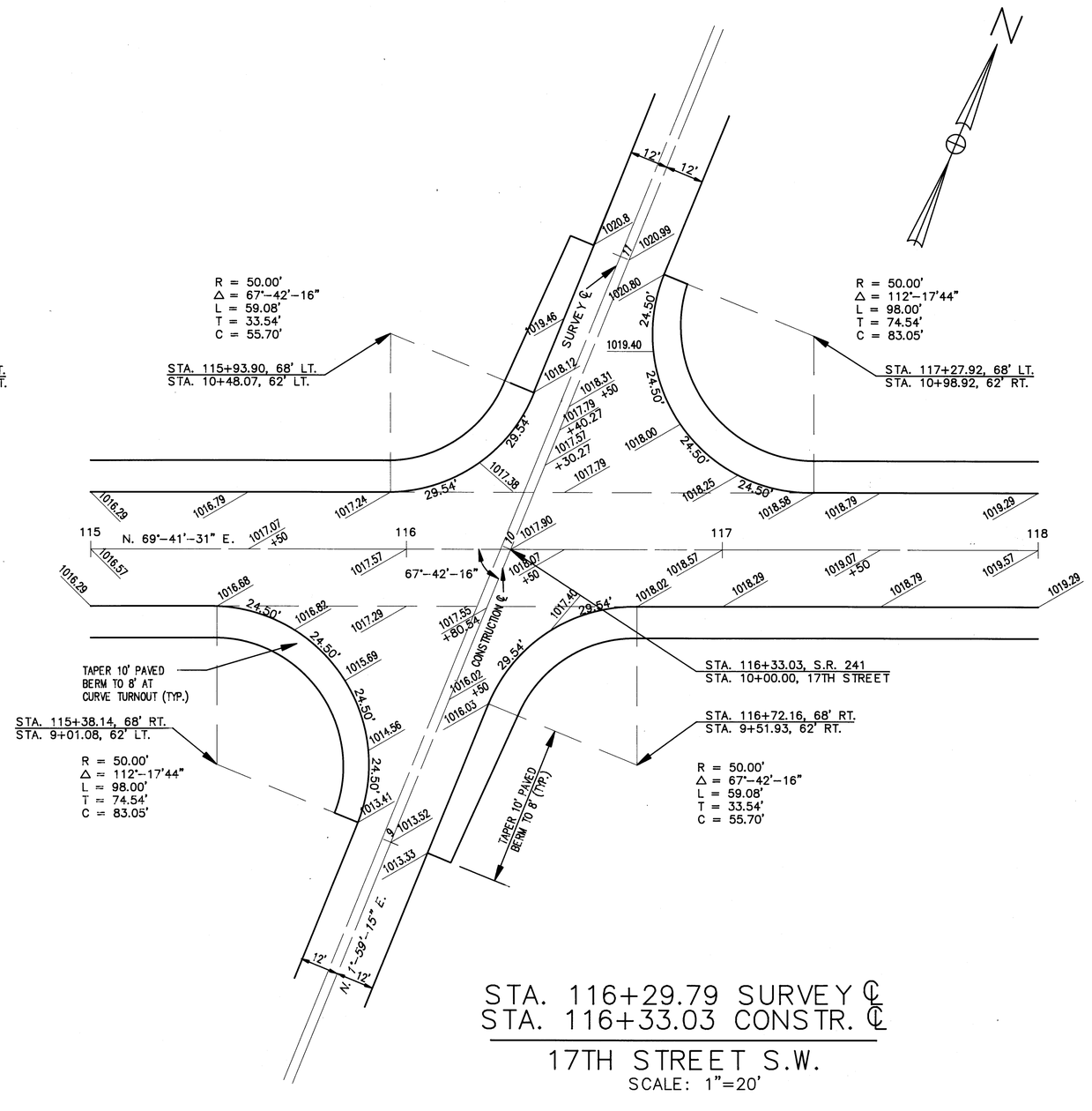
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303



STA. 58+26.18 SURVEY ℄
STA. 58+30.49 CONSTR. ℄

GREENDALE AVENUE

SCALE: 1"=20'



STA. 116+29.79 SURVEY ℄
STA. 116+33.03 CONSTR. ℄

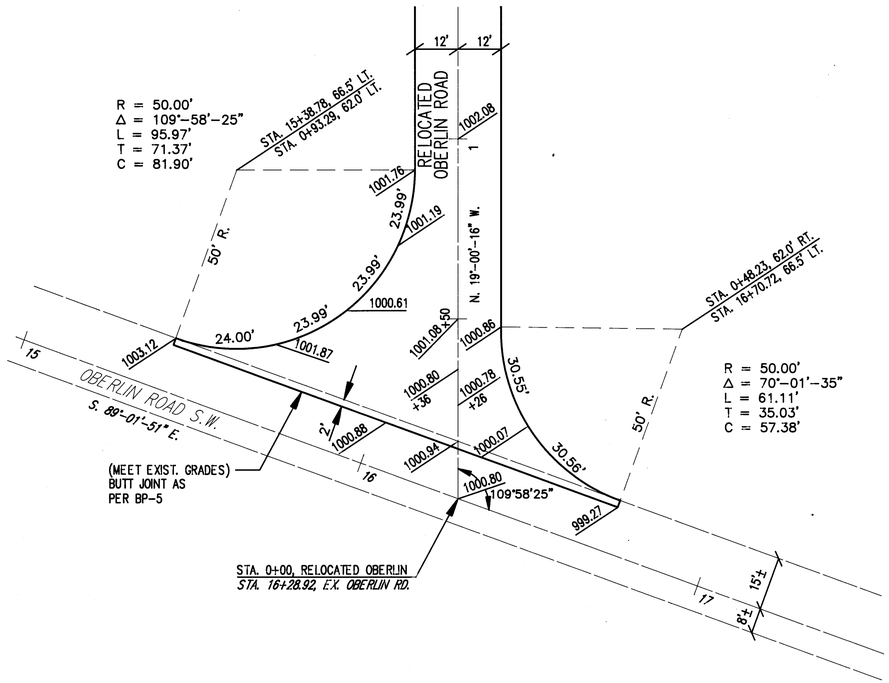
17TH STREET S.W.

SCALE: 1"=20'

STATE ROUTE 241

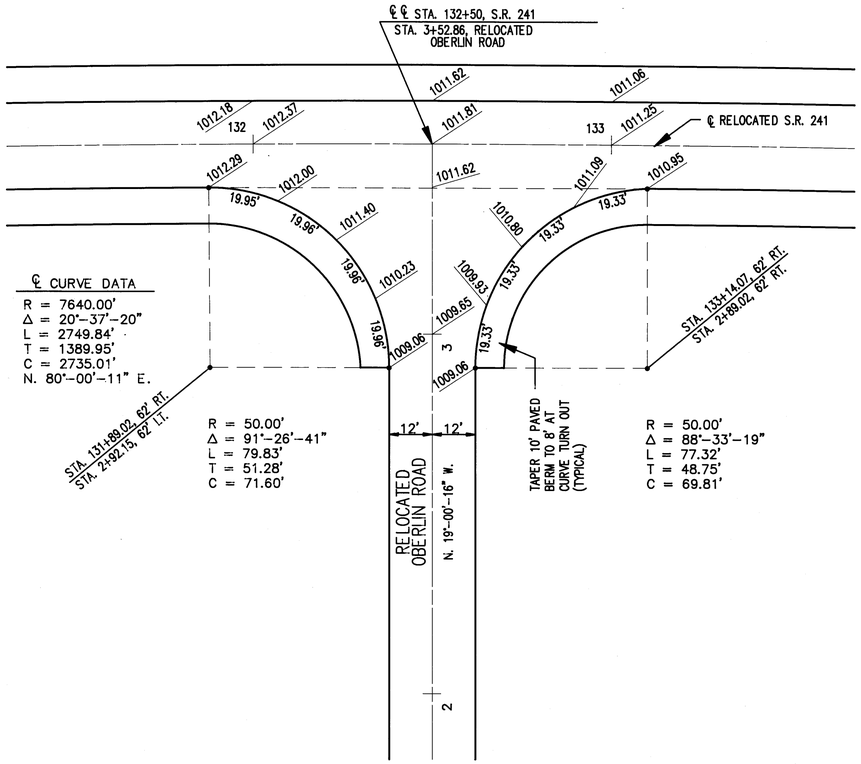
CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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303



℄ ℄ STA. 16+28.92, EX. OBERLIN RD. S.W.

STA. 0+00, RELOCATED OBERLIN RD.



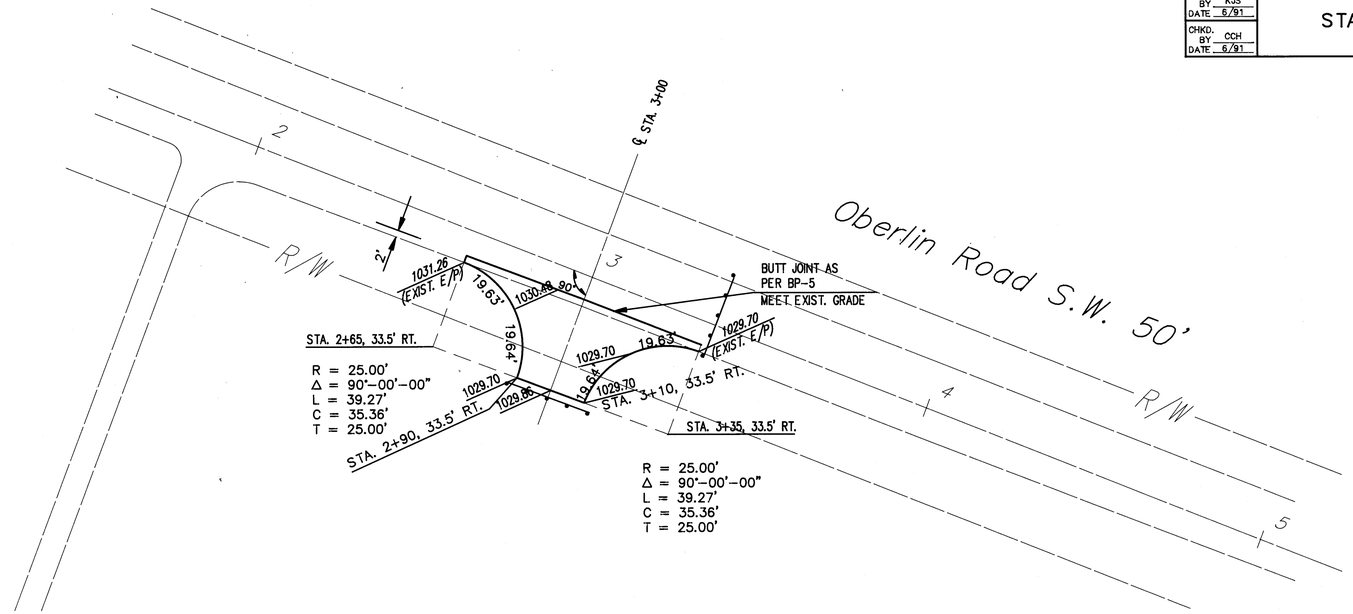
℄ ℄ STA. 132+50 (S.R. 241)

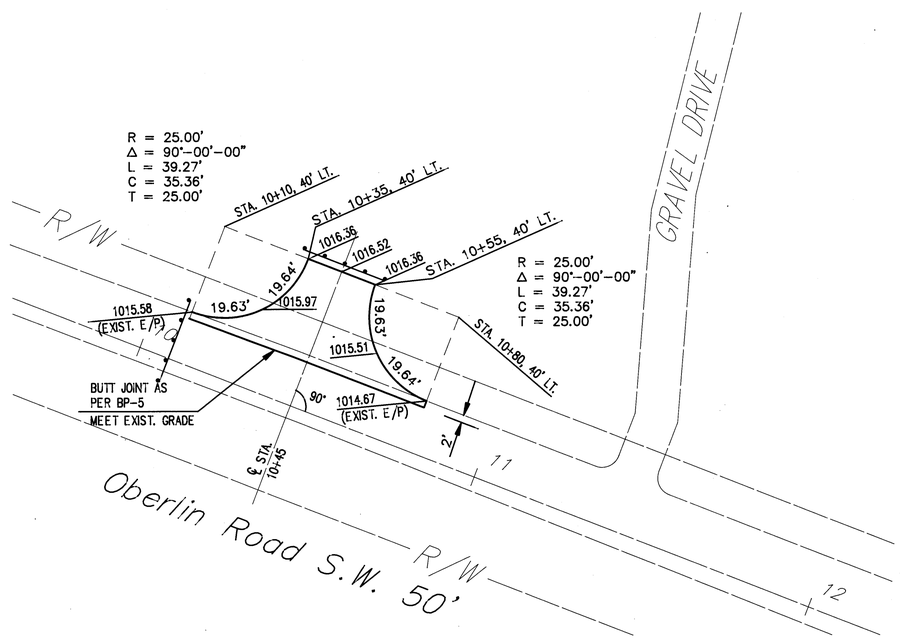
STA. 3+52.86, RELOCATED OBERLIN RD.

STATE ROUTE 241

CALC. BY KJS DATE 6/91	STA– 241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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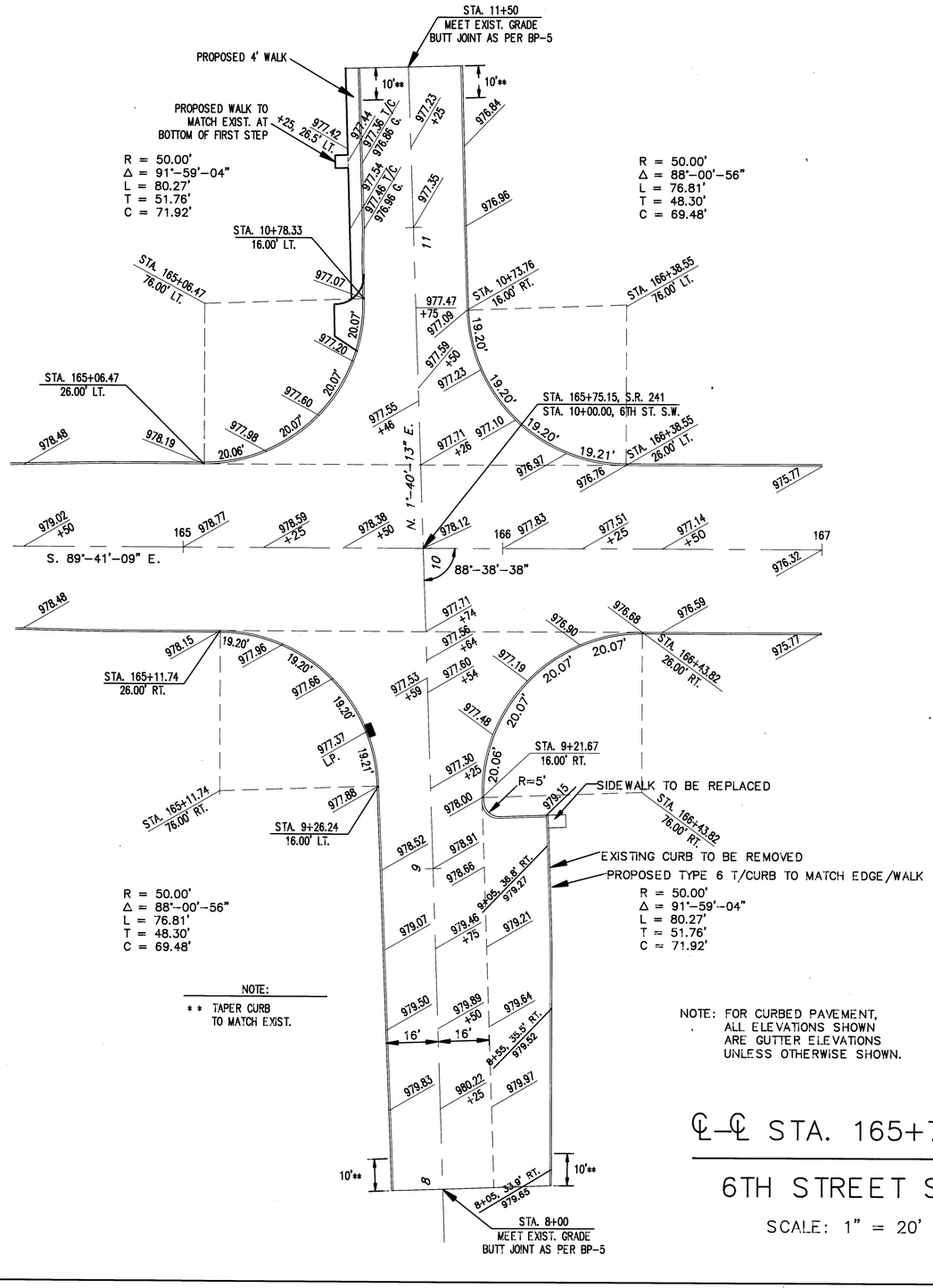




STATE ROUTE 241

INTERSECTIONS

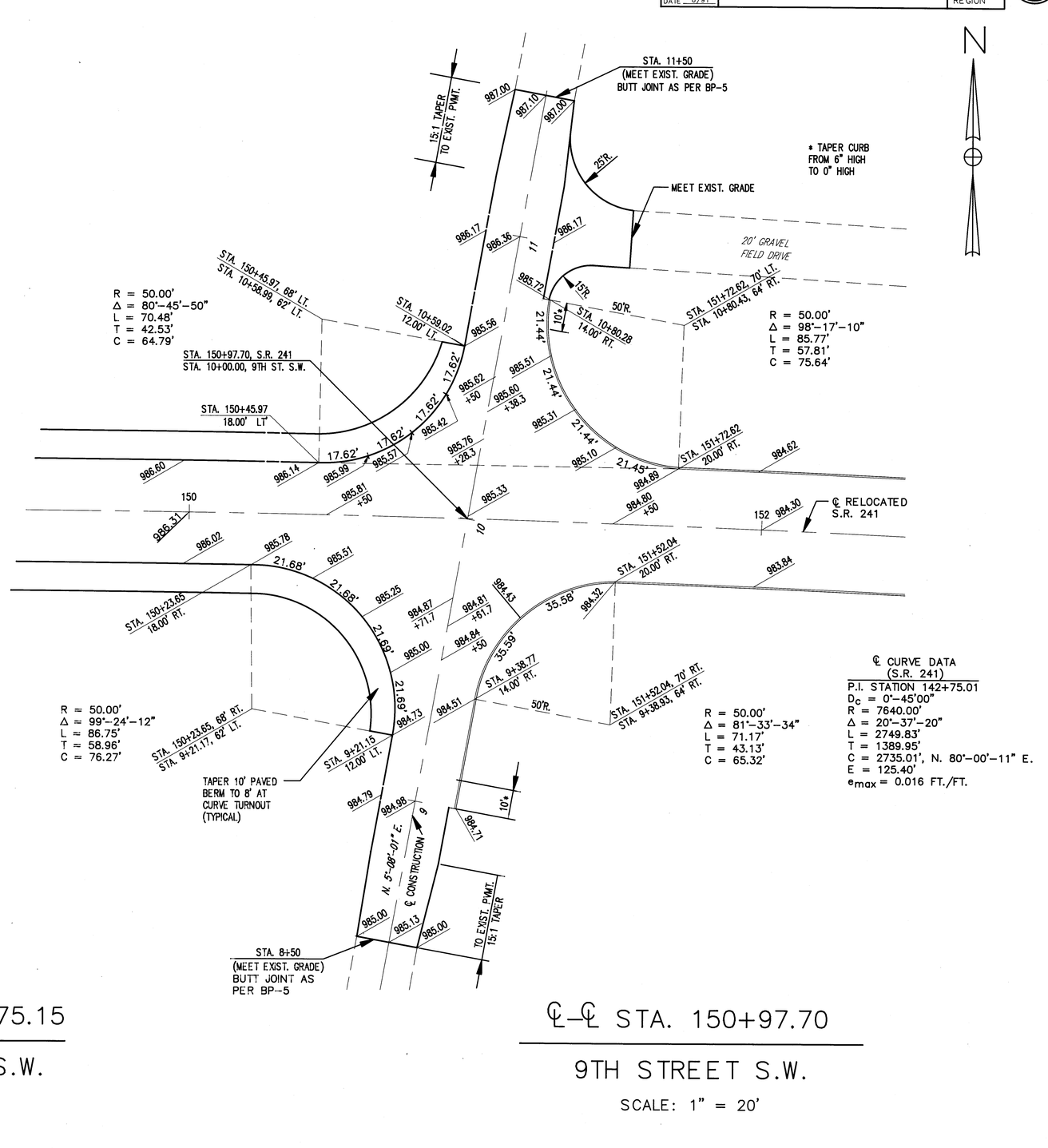
CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5



℄–℄ STA. 165+75.15

6TH STREET S.W.

SCALE: 1" = 20'



℄–℄ STA. 150+97.70

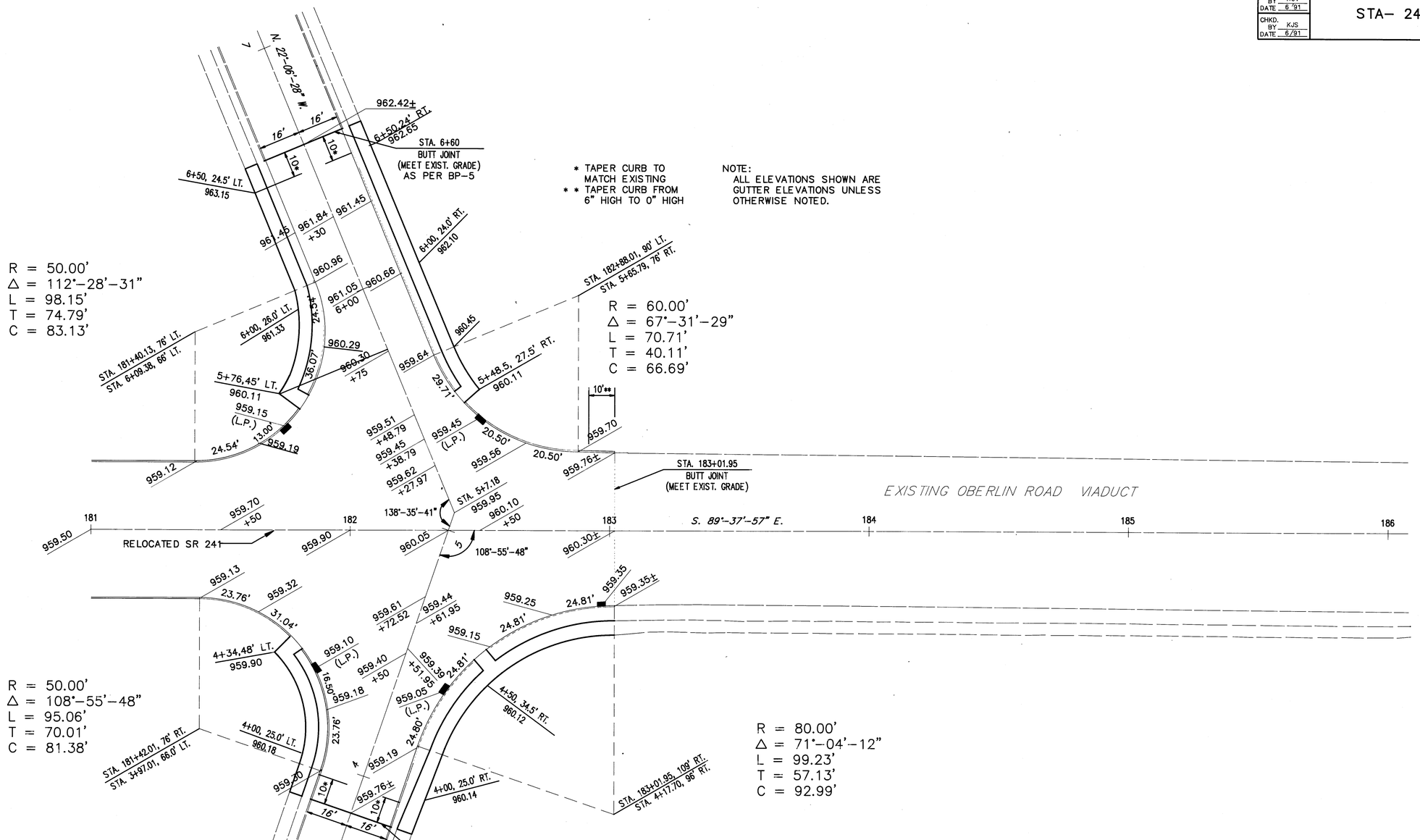
9TH STREET S.W.

SCALE: 1" = 20'

STATE ROUTE 241

CALC. BY RGV DATE 6 '91	STA– 241–4.22	OHIO
CHKD. BY KJS DATE 6/91		FHWA REGION

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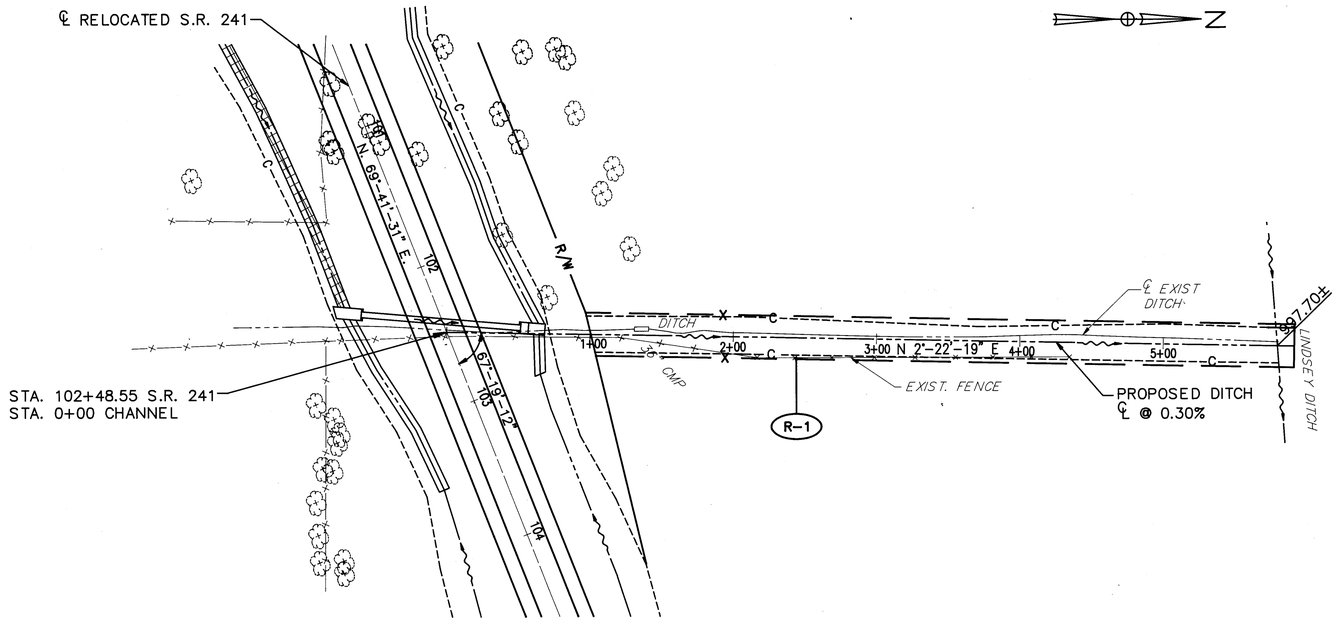


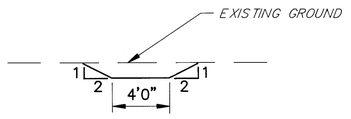
STATE ROUTE 241

INTERSECTIONS

CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

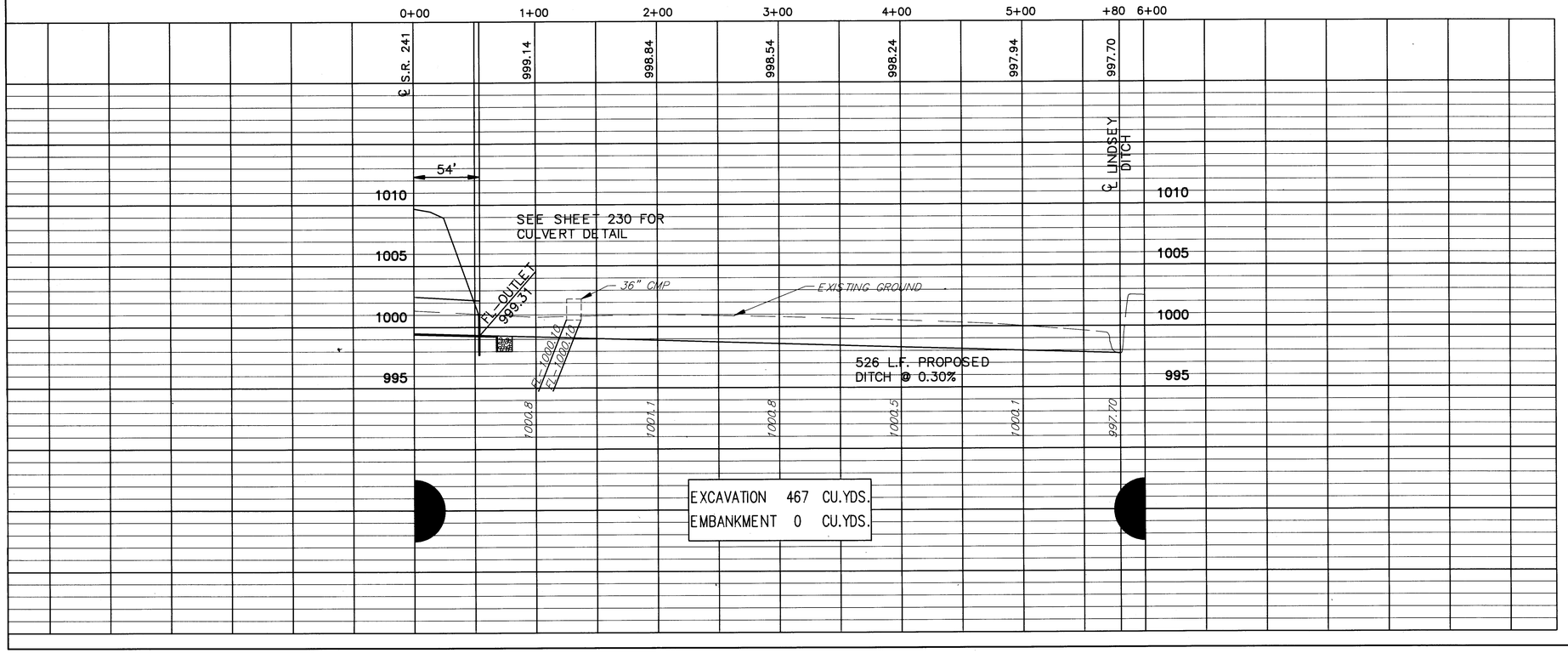
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303





TYPICAL DITCH SECTION

FOR CROSS SECTIONS, SEE SHEETS 210–212
FOR CULVERT DETAIL , SEE SHEET 230



REF.	LOCATION	L.F.
202	FENCE REMOVED	436
R–1	STA. 0+00, 3' RT. TO STA. 4+35, 10' RT.	436
	ROADWAY	TOTALS

STATE ROUTE 241

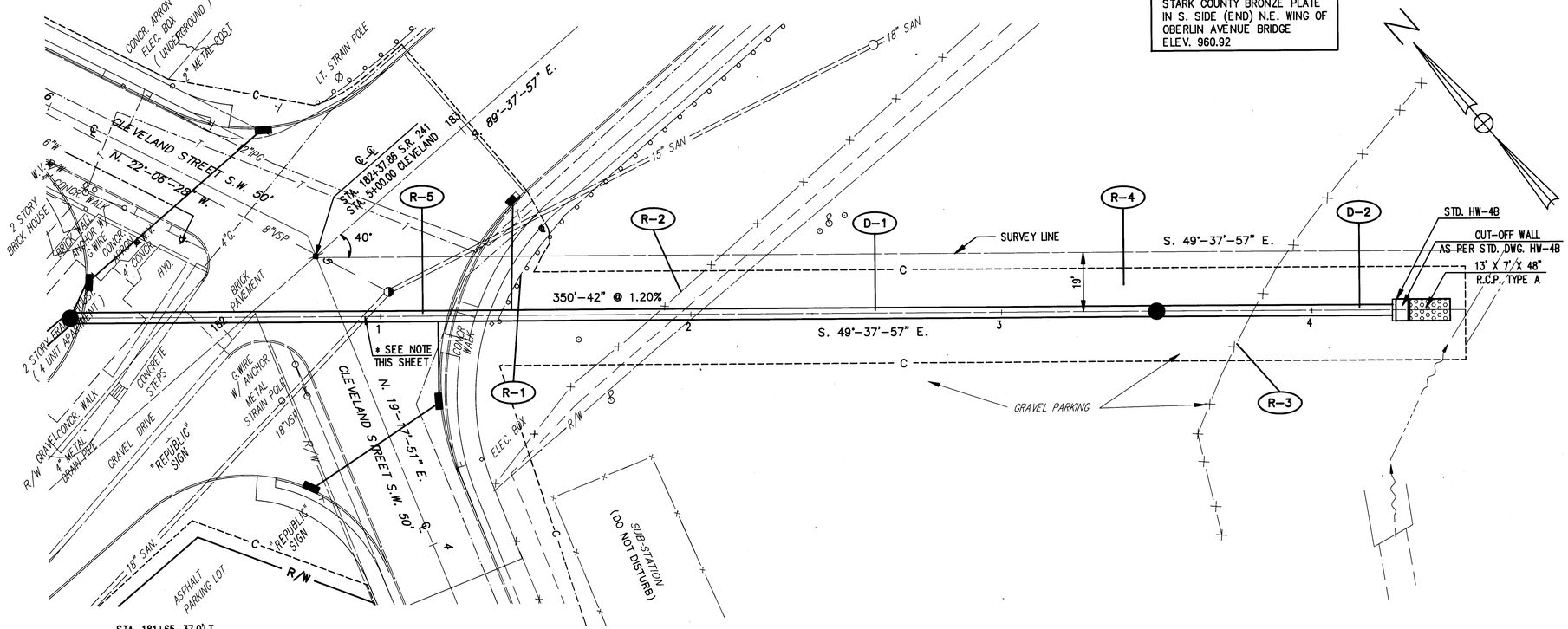
CHANNEL DEEPENING TO LINDSEY DITCH

CALC. BY KJS DATE 6/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

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BENCHMARK:
STARK COUNTY BRONZE PLATE IN S. SIDE (END) N.E. WING OF OBERLIN AVENUE BRIDGE
ELEV. 960.92

FOR TYPICAL SECTIONS SEE SHEETS 8, 9
FOR PAVEMENT MARKING & SIGNING PLAN SEE SHEET 256
FOR SIDE STREET PLAN & PROFILES SEE SHEET 178
FOR INTERSECTION DETAILS SEE SHEET 223
FOR STORM SEWER PROFILES SEE SHEET 227
FOR BUILDINGS DEMOLISHED QUANTITIES SEE SHEETS 43, 44
FOR TEMPORARY PAVEMENT REPLACEMENT DETAIL SEE SHEET 239
FOR GRAVEL PARKING REPLACEMENT DETAIL SEE SHEET 239



* PROVIDE CONCRETE COLLAR BETWEEN THE EXISTING 18" SANITARY SEWER AND PROPOSED 42" STORM SEWER AT STA. 182+35, 25' RT.

SEE DETAIL SHEET 239.

	TEE 42"x12"x42"	EA.	1						1
604	MANHOLE NO. 3	EA.	1						1
603	42" CONDUIT TYPE C 706.02 1250 D-LOAD	L.F.	350	76					76
603	42" CONDUIT TYPE B 706.02 1250 D-LOAD	L.F.	350						350
602	CONCRETE MASONRY	C.Y.	0.84						0.84
601	RIPRAP USING 6" REINFORCED CONCRETE SLAB	S.Y.	3.8						3.8
601	ROCK CHANNEL PROTECTION TYPE A W/FILTER	C.Y.	13.4						13.4

DRAINAGE

REF.	LOCATION
D–1	STA. 0+00 TO STA. 3+50, ℄
D–2	STA. 3+50 TO STA. 4+26, ℄
	TOTALS

452	PLAIN CONCRETE PAVEMENT AS PER PLAN	S.Y.					92		92
411	8" STABILIZED CRUSHED AGGREGATE	C.Y.				90			90
607	FENCE TYPE CL	L.F.		46		34			80
606	ANCHOR ASSEMBLY TYPE A	EA.	1						1
606	GUARDRAIL TYPE 5	L.F.	37.5						37.5
202	FENCE REMOVED	L.F.		46		34			80
202	GUARDRAIL REMOVED	L.F.	37.5						37.5

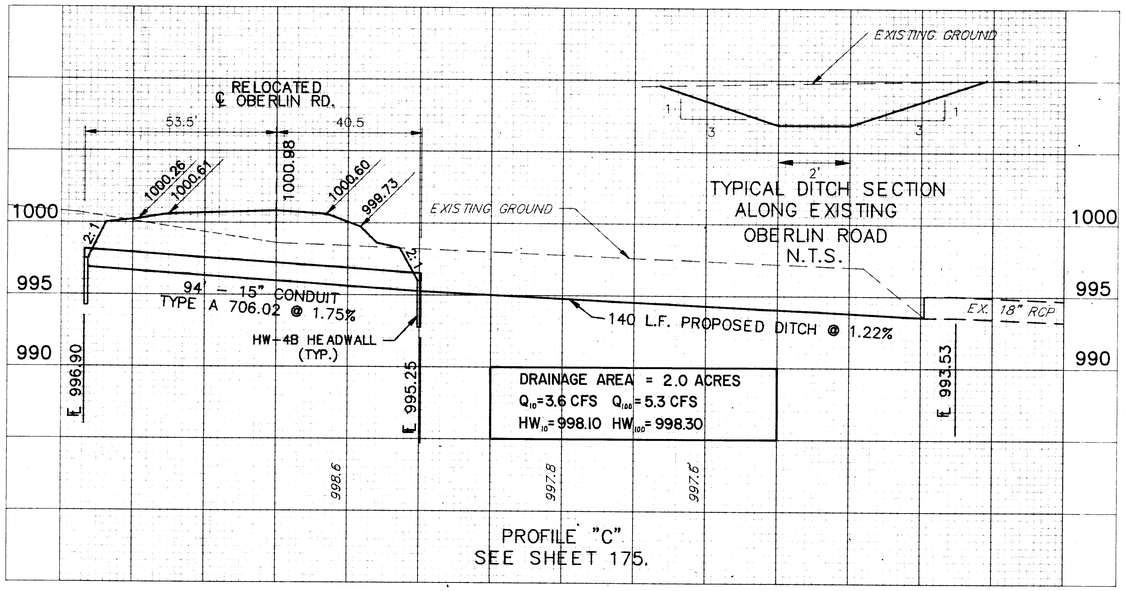
ROADWAY

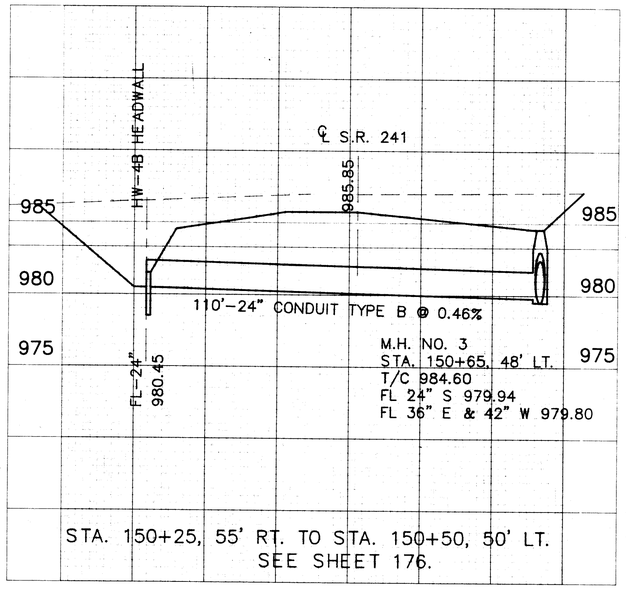
REF.	LOCATION
R–1	STA. 1+38, 2' RT. TO STA. 1+52, 23' LT.
R–2	STA. 1+69, 16' RT. TO STA. 2+05, 14' LT.
R–3	STA. 3+73, 16' RT. TO STA. 3+89, 14' LT.
R–4	STA. 1+95 TO STA. 3+81
R–5	STA. 0+50 TO STA. 1+25
	TOTALS

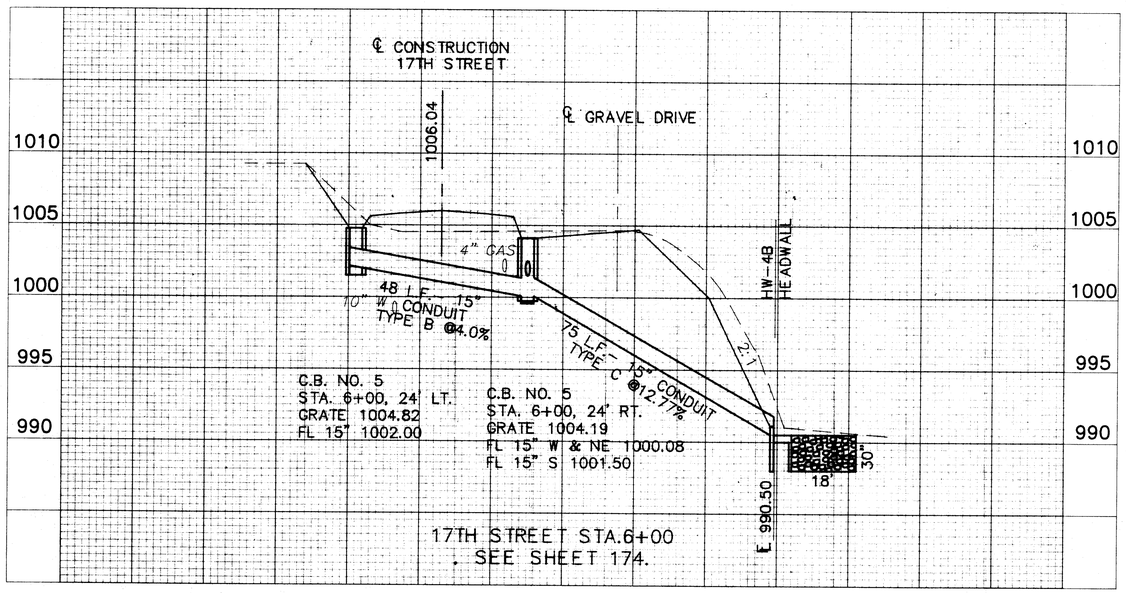
STORM SEWER OUTLET

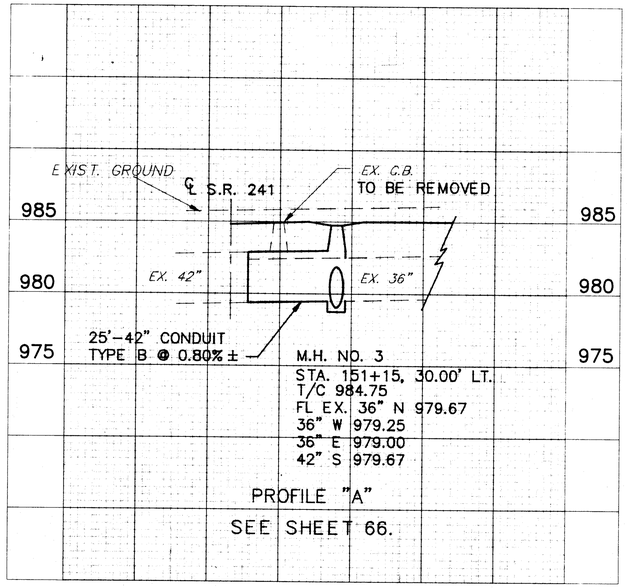
STATE ROUTE 241

STORM SEWER PROFILES









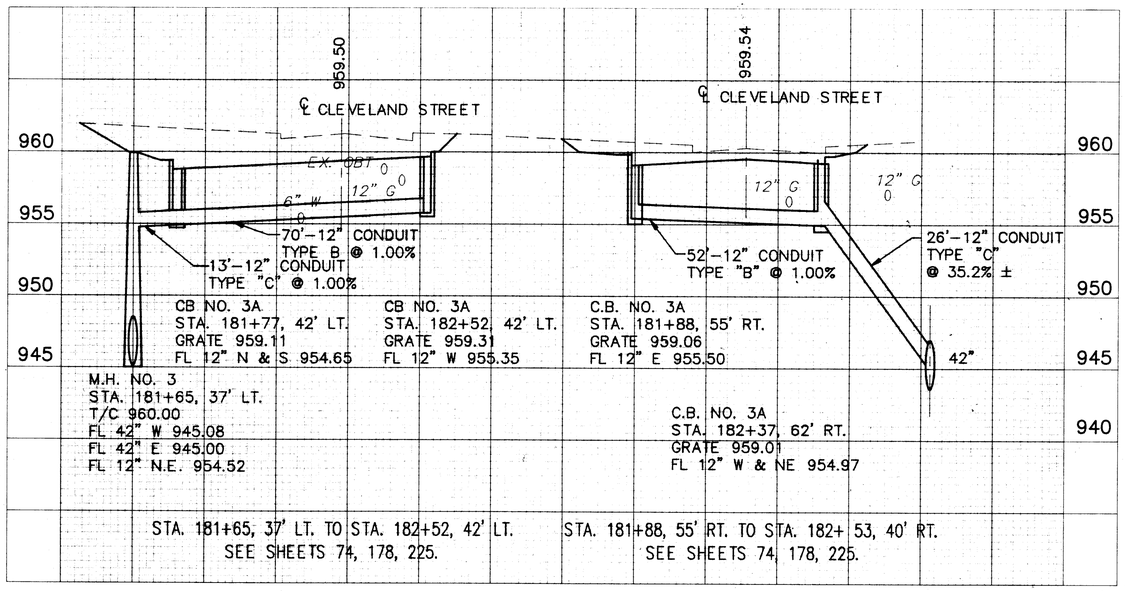
SCALE: HORIZ. – 1"=20'
VERT. – 1"=5'

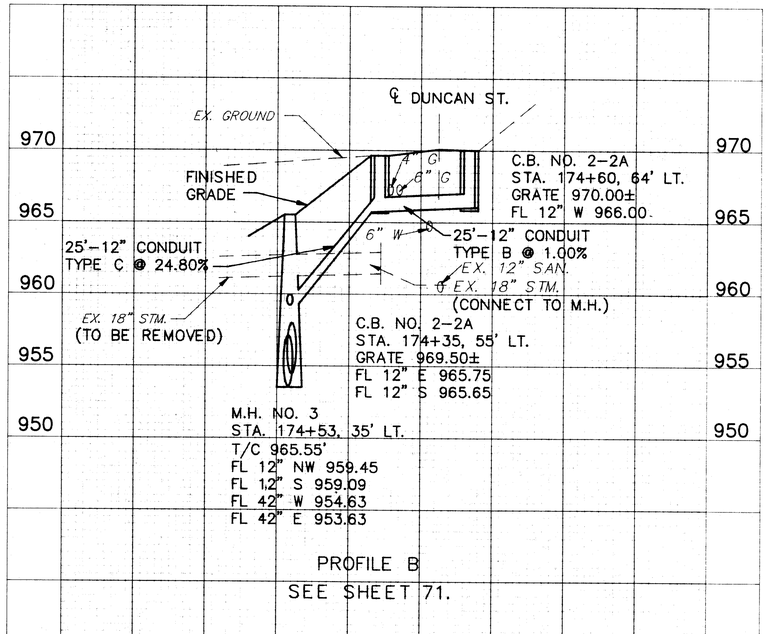
STATE ROUTE 241

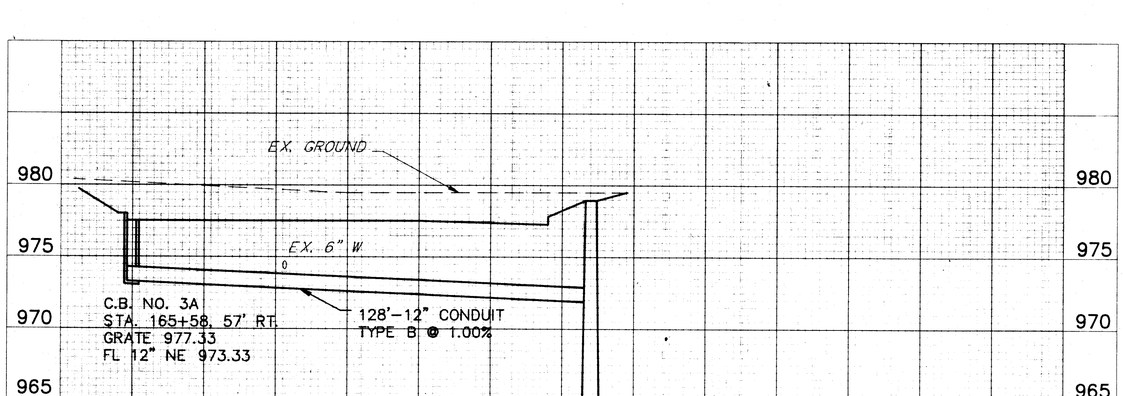
PPST1

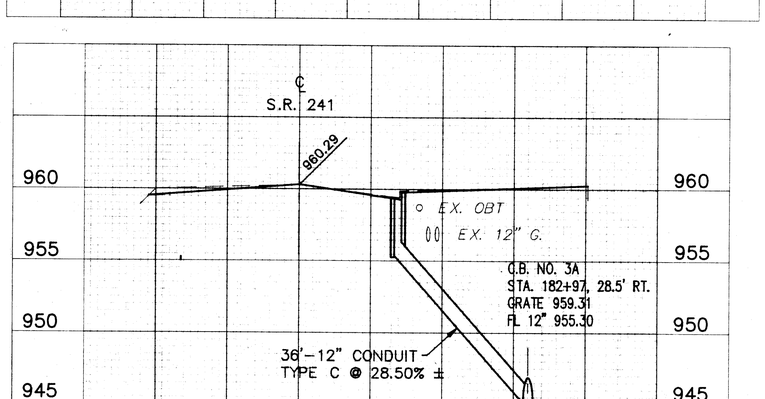
STORM SEWER PROFILES

STORM SEWER PROFILES









SCALE: HORZ. 1"=20'
VERT. 1"=5'

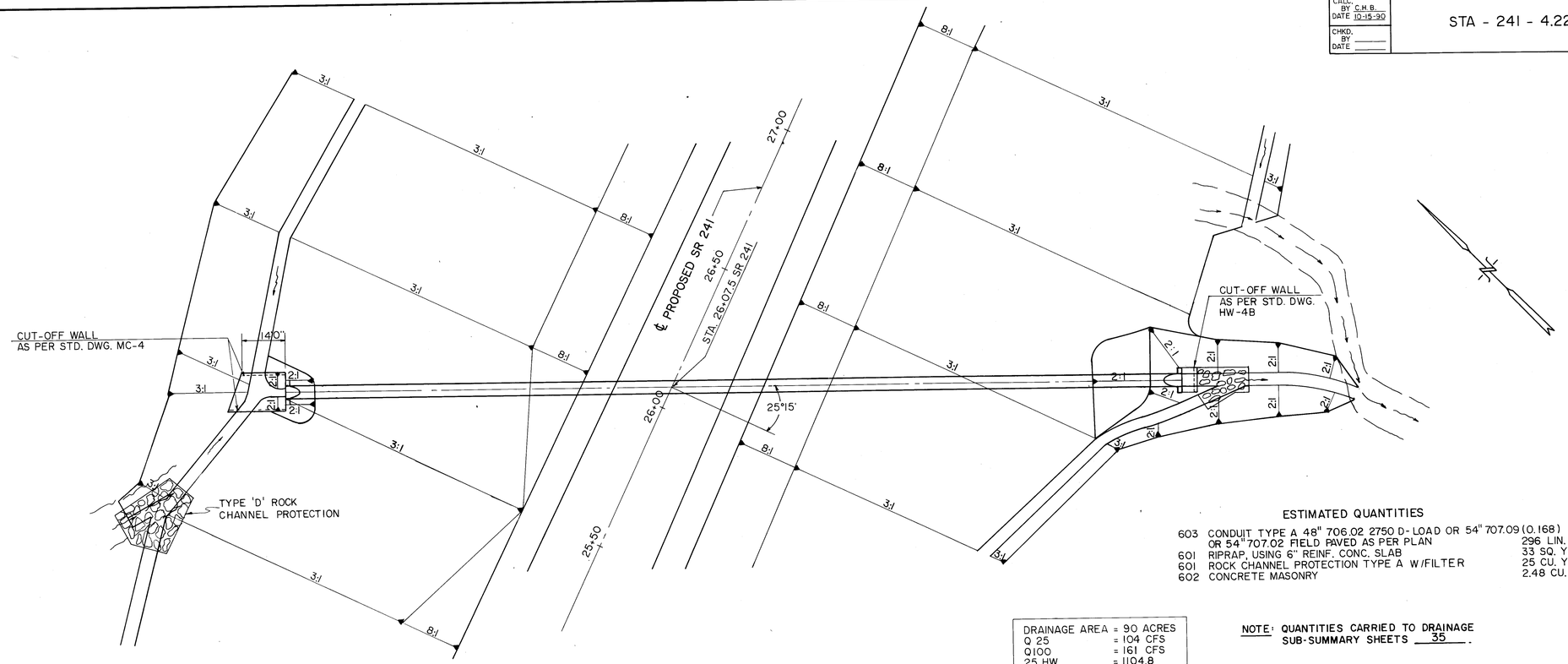
PPST2

STATE ROUTE 241

STORM SEWER PROFILES

CALC. BY C.H.B. DATE 10-15-90	STA - 241 - 4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

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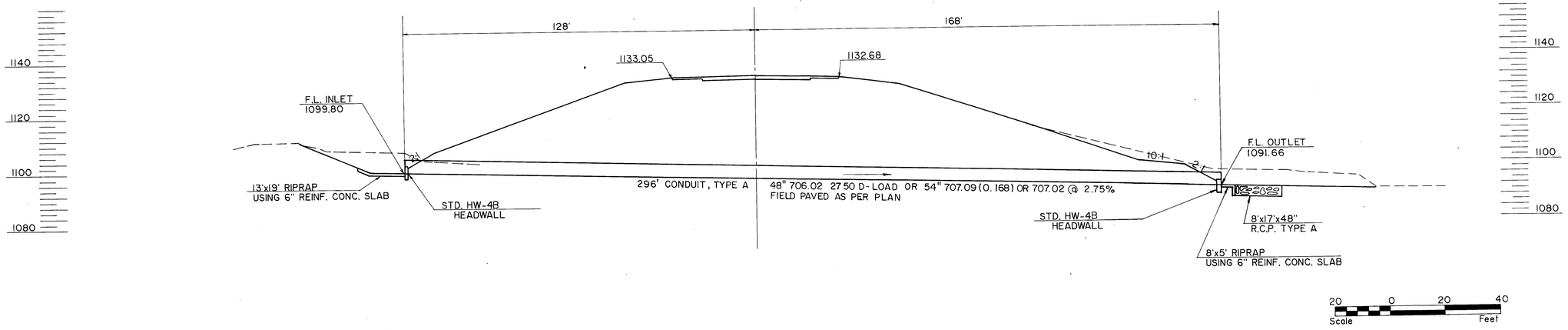


ESTIMATED QUANTITIES

603	CONDUIT TYPE A 48" 706.02 2750 D-LOAD OR 54" 707.09 (0.168) OR 54" 707.02 FIELD PAVED AS PER PLAN	296 LIN. FT.
601	RIPRAP, USING 6" REINF. CONC. SLAB	33 SQ. YD.
601	ROCK CHANNEL PROTECTION TYPE A W/FILTER	25 CU. YD.
602	CONCRETE MASONRY	2.48 CU. YD.

DRAINAGE AREA	= 90 ACRES
Q 25	= 104 CFS
Q100	= 161 CFS
25 HW	= 1104.8
100 HW	= 1108.0

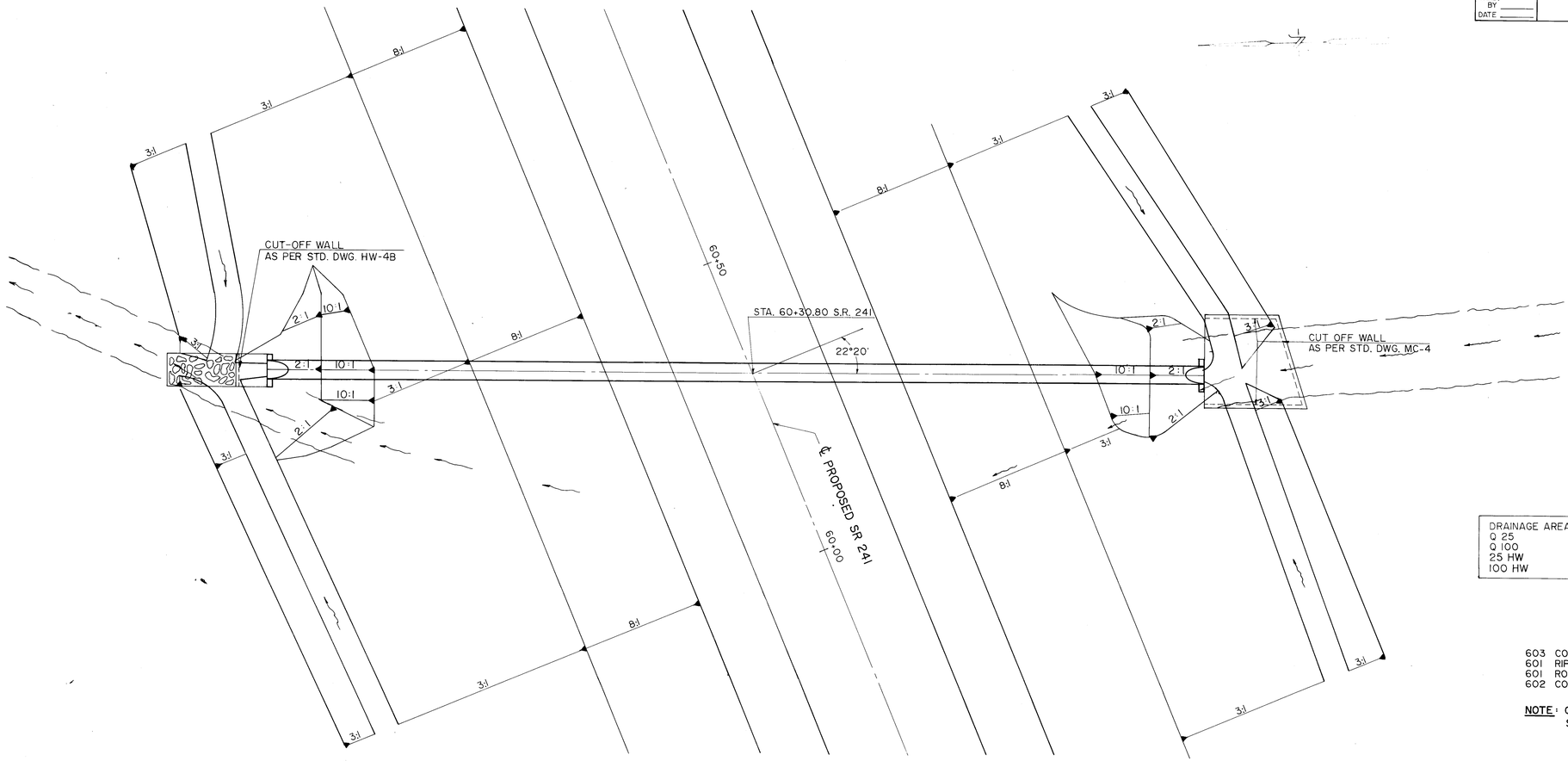
NOTE: QUANTITIES CARRIED TO DRAINAGE SUB-SUMMARY SHEETS 35.



CULVERT, STA. 26+07.50

STATE ROUTE 241

CALC. BY C.H.B. DATE 10-15-90	STA - 241 - 4.22	OHIO	229
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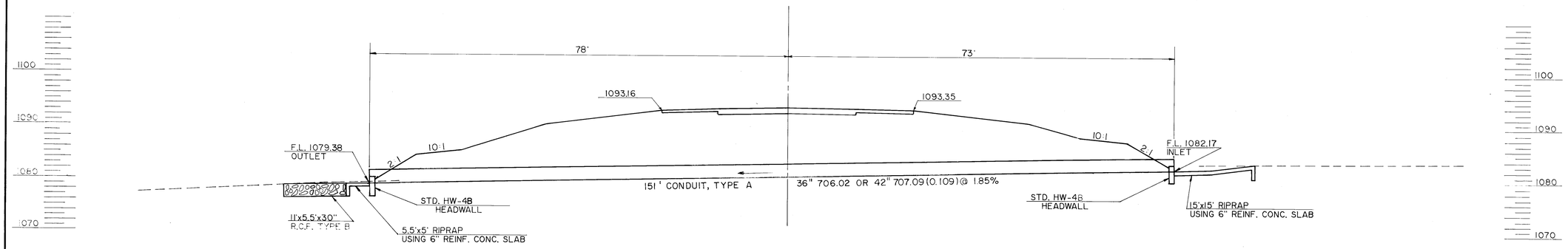


DRAINAGE AREA	= 32 Ac.
Q 25	= 45 CFS
Q 100	= 72 CFS
25 HW	= 1085.37
100 HW	= 1087.37

ESTIMATED QUANTITIES

603	CONDUIT, TYPE A 36" 706.02 OR 42" 707.09(0.109)	151 LIN. FT.
601	RIPRAP, USING 6" REINF. CONC. SLAB	26.8 SQ. YD.
601	ROCK CHANNEL PROTECTION, TYPE B W/FILTER	6.7 CU. YD.
602	CONCRETE MASONRY	1.4 CU. YD.

NOTE: QUANTITIES CARRIED TO DRAINAGE SUB-SUMMARY SHEETS 35 .



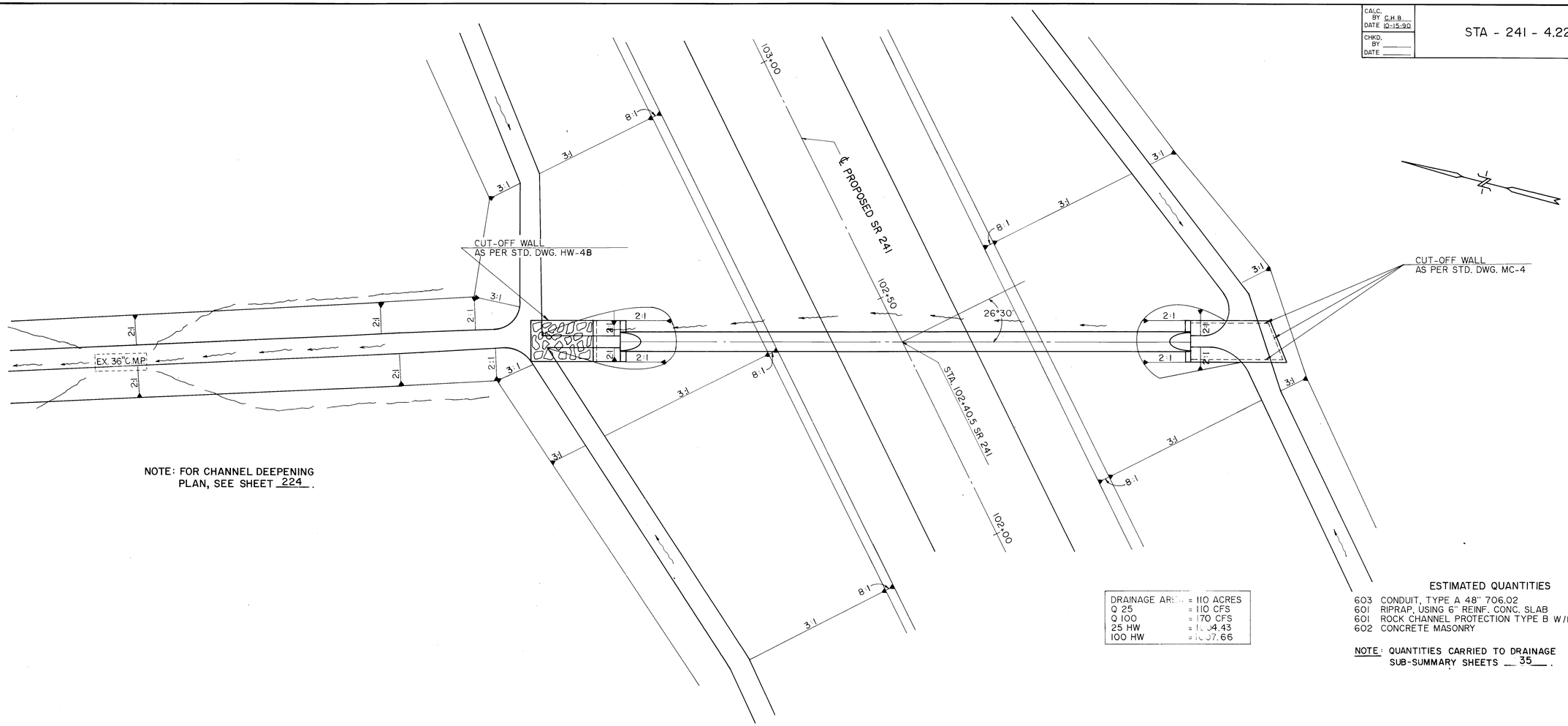
10 0 10 20
Scale Feet

STATE ROUTE 241

CULVERT STA. 60+30.80

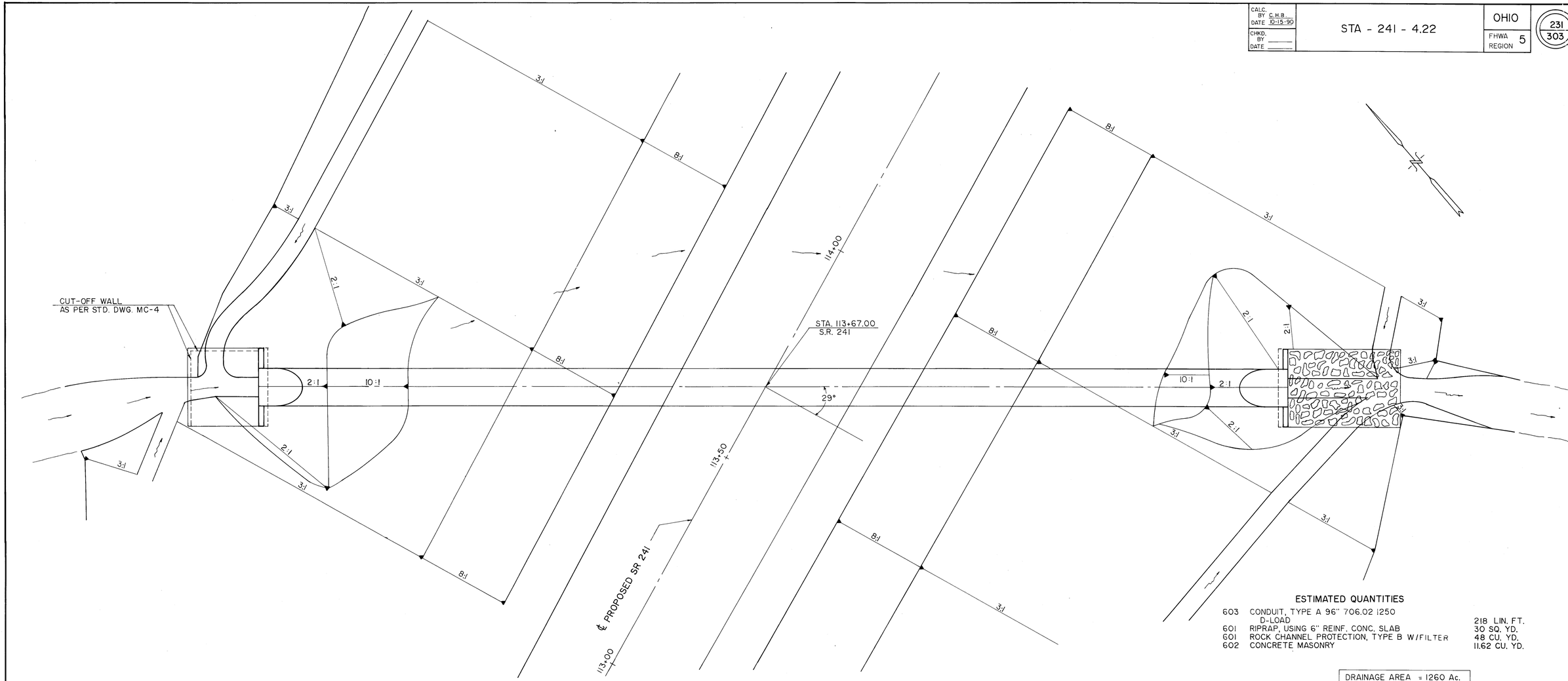
CALC. BY C.H.B. DATE 10-15-90	STA - 241 - 4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

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103+00
℄ PROPOSED SR 241
102+50
102+00
STA. 102+40.5 SR 241
CUT-OFF WALL
AS PER STD. DWG. HW-4B
CUT-OFF WALL
AS PER STD. DWG. MC-4
EX. 36" C.M.P.
26°30'
8:1
3:1
2:1
2H
8'
3'
3'
3

CALC. BY C.H.B. DATE 10-15-90	STA - 241 - 4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

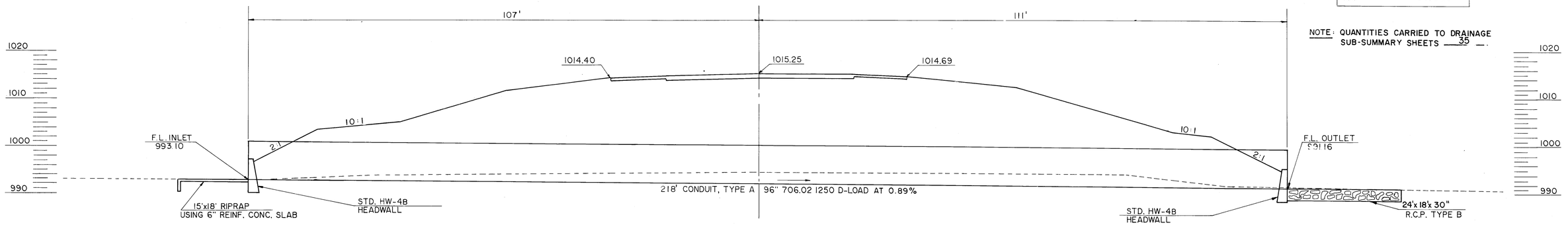
231/303



ESTIMATED QUANTITIES

603	CONDUIT, TYPE A 96" 706.02 1250 D-LOAD	218 LIN. FT.
601	RIPRAP, USING 6" REINF. CONC. SLAB	30 SQ. YD.
601	ROCK CHANNEL PROTECTION, TYPE B W/FILTER	48 CU. YD.
602	CONCRETE MASONRY	11.62 CU. YD.

DRAINAGE AREA	= 1260 Ac.
Q 25	= 561 CFS
Q 100	= 800 CFS
25 HW	= 1003.3
100 HW	= 1009.6



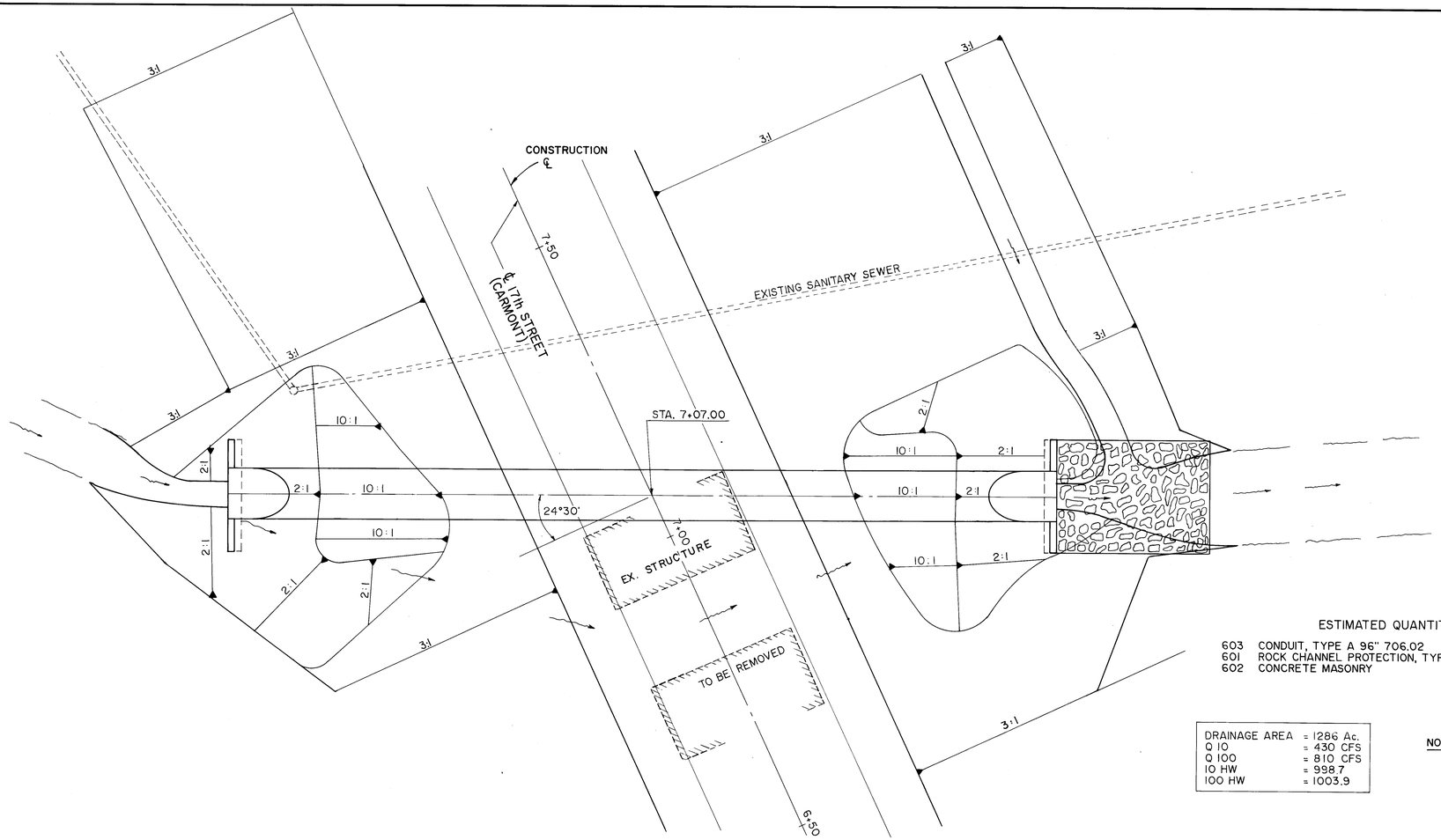
NOTE: QUANTITIES CARRIED TO DRAINAGE SUB-SUMMARY SHEETS 35

STATE ROUTE 241

CULVERT, STA. 113+67.00

CALC. BY C.H.B. DATE 10-15-90	STA - 241 - 4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

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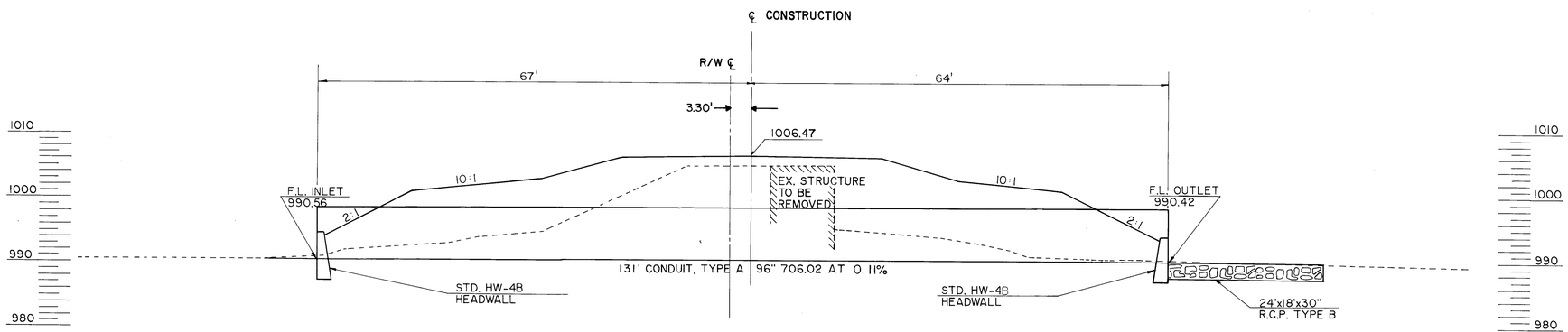


ESTIMATED QUANTITIES

603	CONDUIT, TYPE A 96" 706.02	131 LIN. FT.
601	ROCK CHANNEL PROTECTION, TYPE B W/FILTER	48 CU. YD.
602	CONCRETE MASONRY	10.62 CU. YD.

DRAINAGE AREA	= 1286 Ac.
Q 10	= 430 CFS
Q 100	= 910 CFS
10 HW	= 998.7
100 HW	= 1003.9

NOTE: QUANTITIES CARRIED TO DRAINAGE SUB-SUMMARY SHEETS 35.

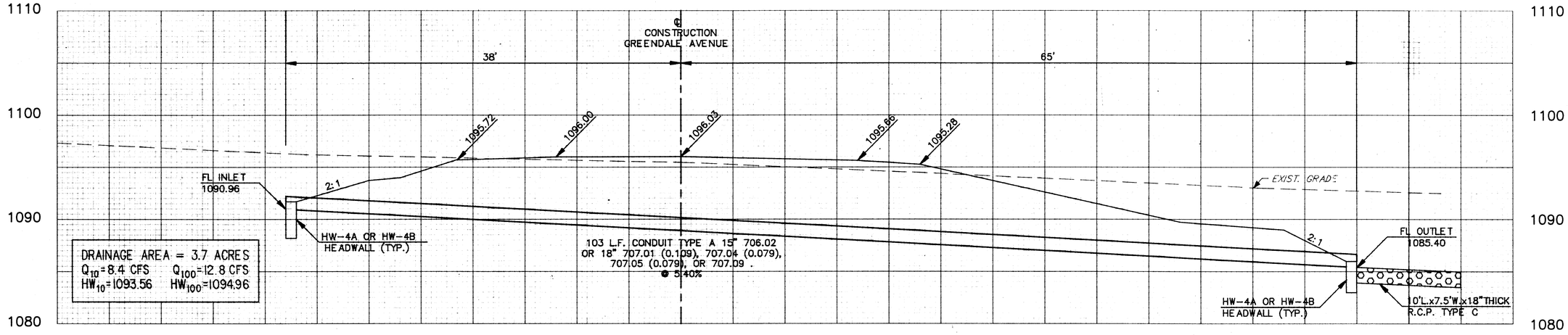


10 0 10 20
Scale Feet

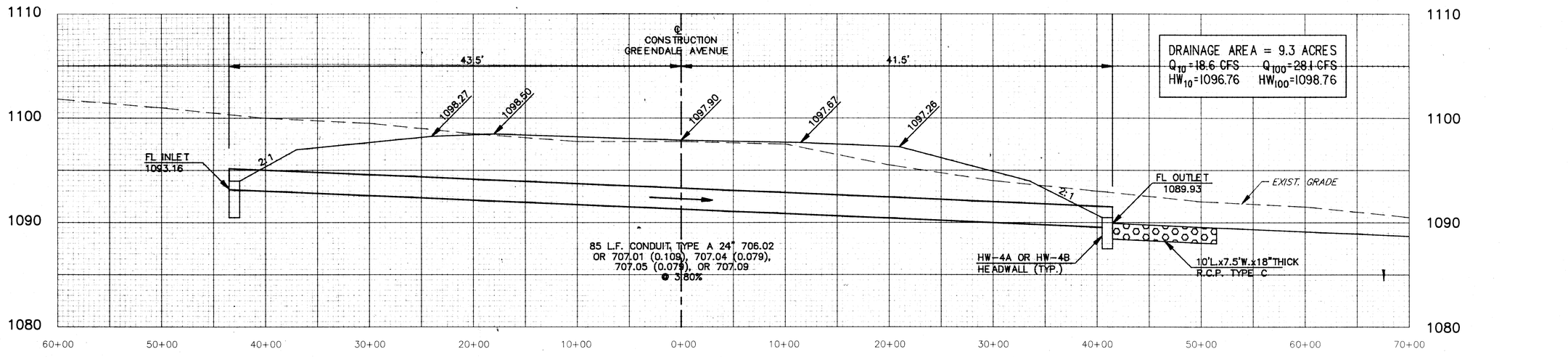
17TH STREET

CULVERT, STA. 7+07.00

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GREENDALE AVENUE
STA. 10+65



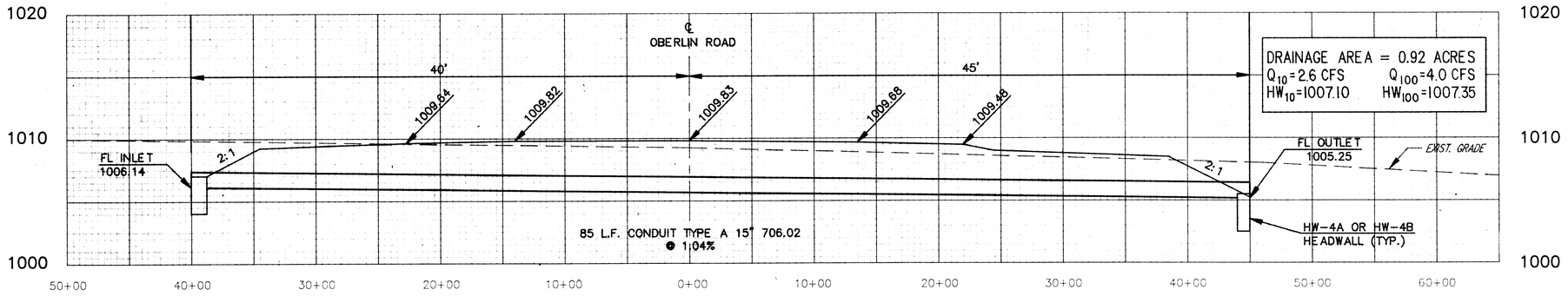
GREENDALE AVENUE
STA. 9+40

SCALE: HORZ.: 1"=5'
VERT.: 1"=5'

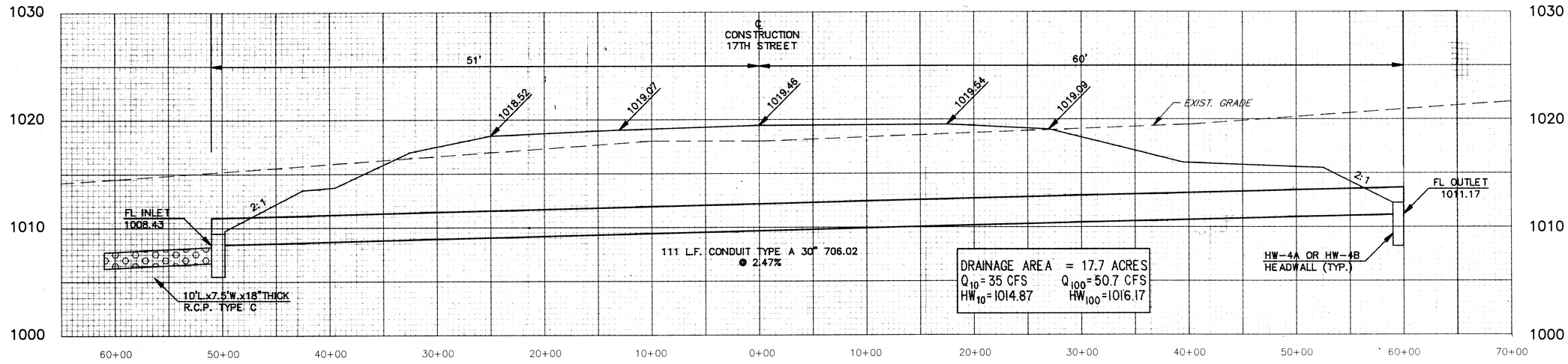
STATE ROUTE 241

DRPROF5

CULVERT DETAILS



RELOCATED OBERLIN ROAD
STA. 3+04



17TH STREET
STA. 10+72

SCALE: HORZ.: 1"=5'
VERT.: 1"=5'

DRFROF6

CULVERT DETAILS

STATE ROUTE 241

TEMPORARY EROSION CONTROL PLAN

NOTES:

1. ALL SLOPES AND DITCHES ARE TO BE PERMANENTLY STABILIZED IMMEDIATELY AFTER FINAL GRADES HAVE BEEN ESTABLISHED.
2. ALL DIVERSION DIKES ARE TO BE CONSTRUCTED AT TOP OF CUT SLOPES AND REMOVED WHEN SLOPES AND DITCHES ARE STABILIZED WITH PERMANENT EROSION CONTROL.
3. ALL BALE DIKES ARE CONSTRUCTED AT TOE OF FILL SLOPES AND REMOVED WHEN SLOPES AND DITCHES ARE PERMANENTLY STABILIZED.
4. FLOW IN EXISTING STREAMS CROSSING PROPOSED DITCHES SHALL BE MAINTAINED UNTIL DOWNSTREAM NEW CHANNELS ARE CONSTRUCTED AND STABILIZED.

TEMPORARY EROSION CONTROL SUB-SUMMARY			207 TEMPORARY BENCHES, DAMS AND SEDIMENT BASINS		207 STRAW OR HAY BALES	207 TEMPORARY SLOPE DRAINS		207 TEMPORARY DIKES		601 ROCK CHANNEL PROTECTION, TYPE C W/O BEDDING	
STATION	SIDE	CONTROL TYPE	CITY & STATE	STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE	CITY & STATE	STATE
			CU. YDS.	CU. YDS.	EACH	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	CU. YDS.	CU. YDS.
11+25	L	SED. BAS.		275							2.1
11+25	R	SED. BAS.		160							1.5
24+50	L	SED. BAS.		80							0.9
26+25	R	SED. BAS.		170							1.5
26+25	L	SED. BAS.		500							3.1
27+50	R	SED. BAS.		195							1.7
26+50 TO 42+85	L	DIV. DIKE							1,670		
25+50 TO 26+00	L						60				1.0
39+50	L						25				1.0
57+00	R	SED. BAS.		625							3.7
57+50	L	SED. BAS.		250							2.0
73+50	R	SED. BAS.		270							2.1
75+00	L	SED. BAS.		100							1.1
74+00 TO 93+00	R	DIV. DIKE							1,900		
79+50	R						40				1.0
90+25	R						15				1.0
93+00 TO 93+50	R						60				1.0
92+75	R	SED. BAS.		350							2.5
101+50	R	SED. BAS.		200							1.7
102+25	L	SED. BAS.	325							2.4	
102+50	R	SED. BAS.	100							1.1	
103+25	L	SED. BAS.	100							1.1	
113+70	R	SED. BAS.	140							1.3	
113+80	L	SED. BAS.	150							1.4	
7+25 (17TH ST)	R	SED. BAS.	150							1.4	
117+50	L	SED. BAS.	1200							5.6	
122+50 TO 146+00	L	DIV. DIKE						2,350			
127+00	L					30				1.0	
147+00 TO 150+30	L					330				1.0	
149+50	L	SED. BAS.	650							3.8	
150+00	R	SED. BAS.	265							2.1	
11+00 TO 21+50 (REL. MUNSON RD.)	R	BALE DIKE			300						
TOTALS			3,080	3,175	300	360	200	2,350	3,570	22.2	28.9

NOTE : THESE QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY, SHEET 46.

EROS3

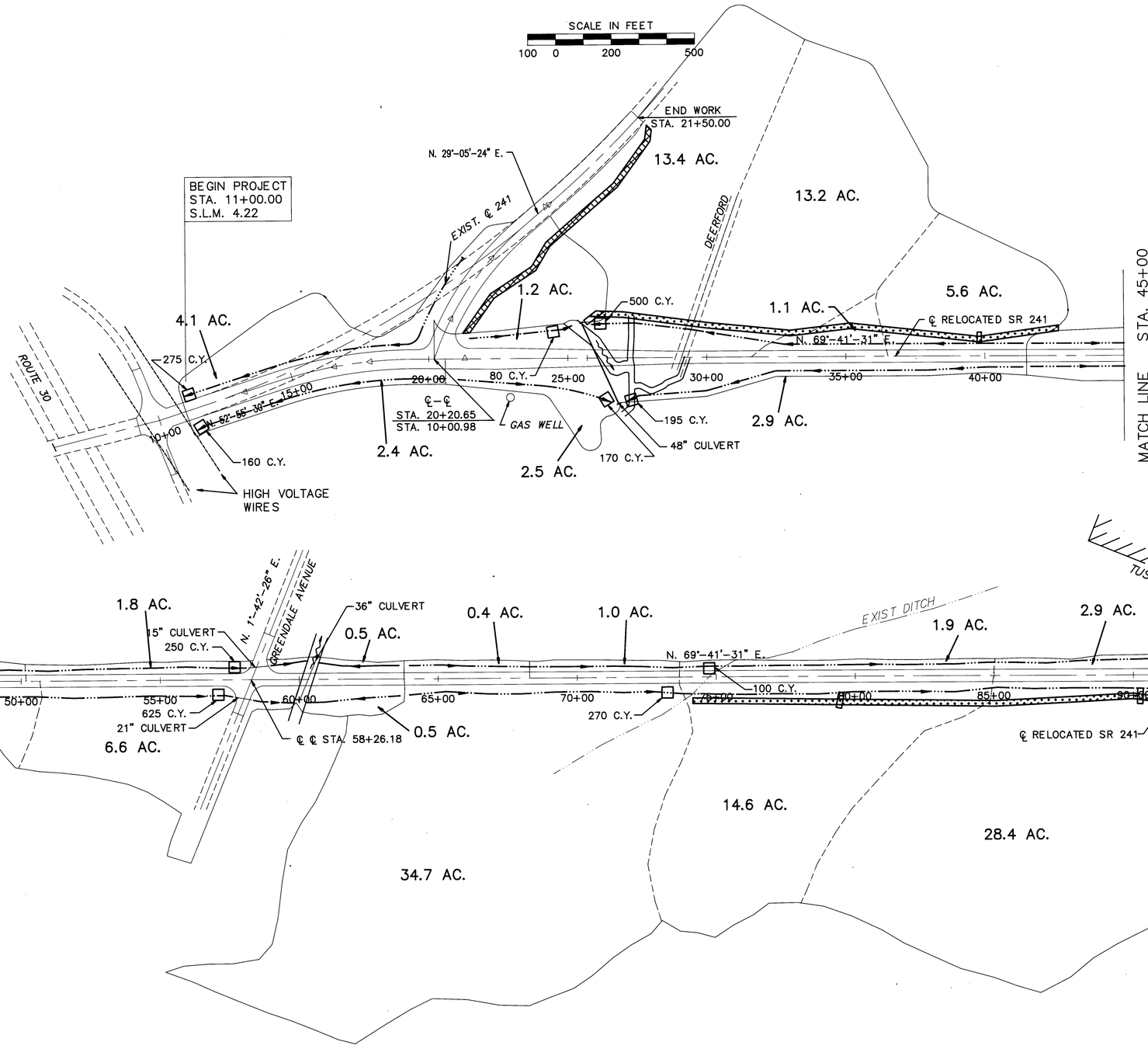
STATE ROUTE 241

TEMPORARY EROSION CONTROL PLAN

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TEMPORARY EROSION CONTROL PLAN



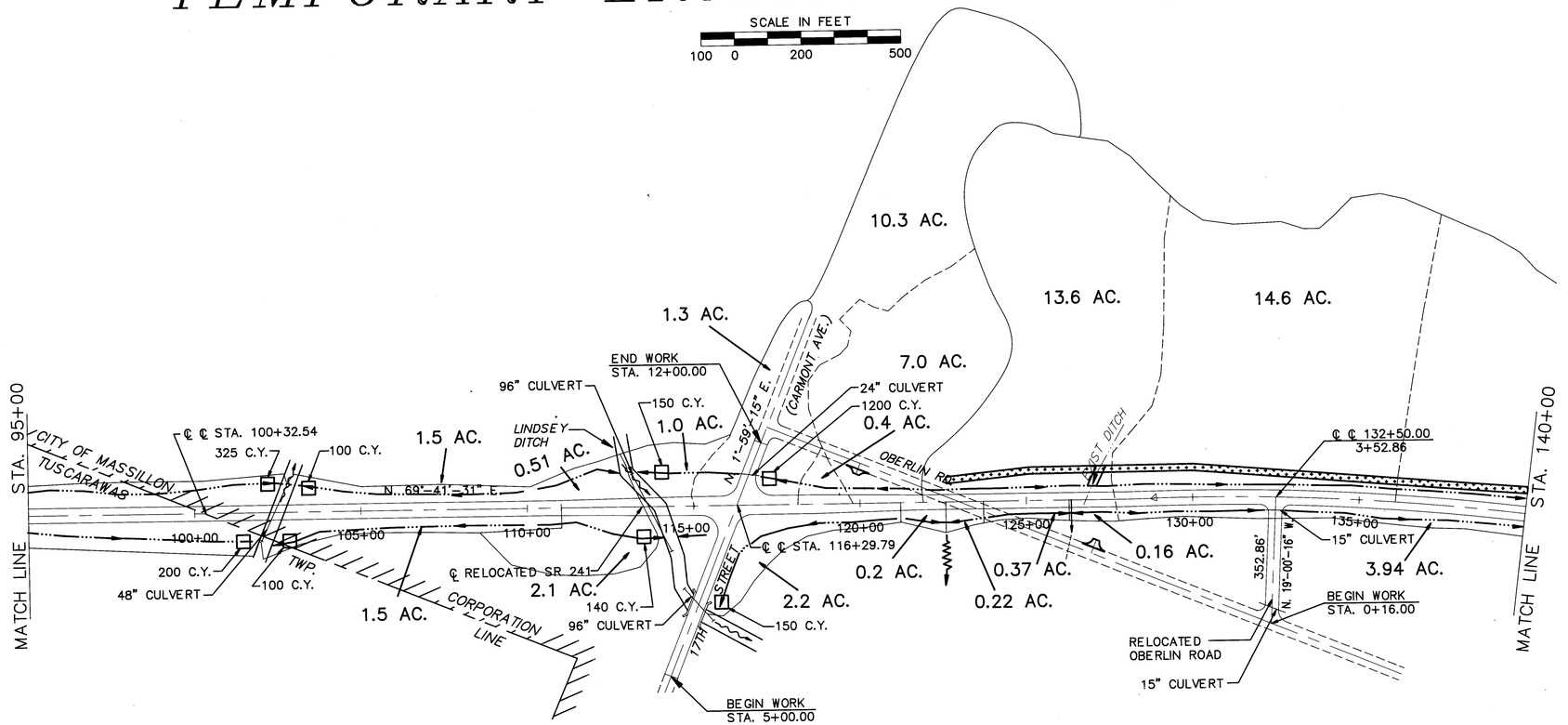
EROS1

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO
CHKD. BY CCH DATE 6/91		FHWA REGION 5

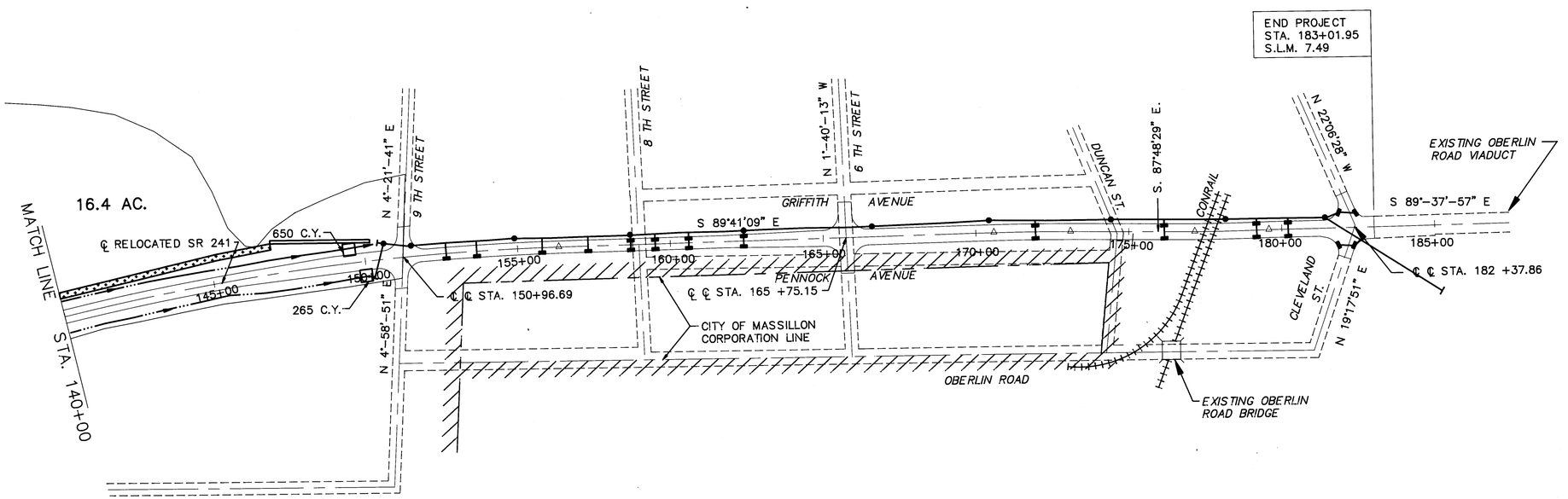
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TEMPORARY EROSION CONTROL PLAN

SCALE IN FEET
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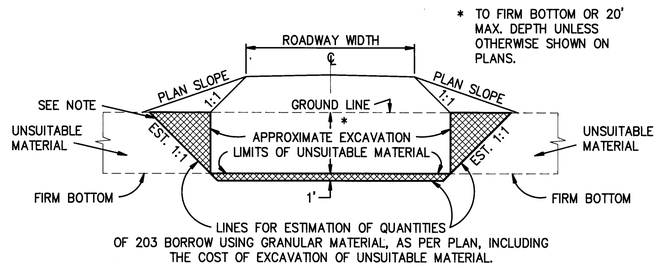


LEGEND
- SEDIMENT BASIN
- DIVERSION DIKE
- TEMPORARY SLOPE DRAIN

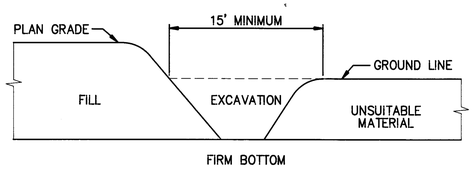


CALC. BY KJS DATE 6/91	STA. – 241 – 4.22	OHIO	238
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SWAMP TREATMENT



CROSS SECTION



LONGITUDINAL SECTION

TOTAL EXCAVATION METHOD

TRENCHING AND BACKFILLING SHALL BE CARRIED PROGRESSIVELY ACROSS THE SWAMP AND SO COORDINATED AS TO LEAVE AN OPEN TRENCH NOT TO EXCEED IN LENGTH, AT ANY TIME, THE WORKING REACH OF THE EQUIPMENT USED FOR SWAMP EXCAVATION.

FILL SHALL BE CONSTRUCTED BY THE METHOD OF END DUMPING, USING GRANULAR MATERIAL, UP TO THE ELEVATIONS DESIGNATED IN THE PLAN. EMBANKMENT REQUIRED ABOVE THIS ELEVATION, IF ANY, SHALL BE CONSTRUCTED IN ACCORDANCE WITH 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

EXCAVATION OF UNSUITABLE MATERIAL AHEAD OF THE FILL AND END DUMPING OF GRANULAR MATERIAL ACROSS THE BOG AREA SHALL BE ADVANCED IN A STRAIGHT LINE FOR THE FULL EMBANKMENT WIDTH TO AVOID ENTRAPMENT OF UNSUITABLE MATERIAL BENEATH ANY PORTION OF THE FILL.

GRANULAR MATERIAL REQUIRED FOR SWAMP TREATMENT SHALL BE SPECIFIED AS "203 BORROW USING GRANULAR MATERIAL, AS PER PLAN". THE GRANULAR MATERIAL SHALL MEET THE REQUIREMENTS OF 203.02 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS MODIFIED TO REQUIRE AT LEAST 85% BY WEIGHT, OF THE GRAINS OR PARTICLES TO BE RETAINED ON THE NO. 200 SEIVE.

EXCAVATED UNSUITABLE MATERIAL WHICH IS TO BE USED ADJACENT TO FILLS FOR SLOPE FLATTENING, OR WHICH IS PILED ADJACENT TO THE FILL TO BE DISPOSED OF LATER IN ACCORDANCE WITH 203.05, SHALL BE SHAPED TO ITS FINAL POSITION OR REMOVED FROM THE AREA AT LEAST TWO WEEKS PRIOR TO PAVING OPERATIONS ON THE FILL.

EQUIPMENT USED FOR EXCAVATION OF UNSUITABLE MATERIALS SHALL BE LOCATED AHEAD OF THE EXCAVATION UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

COST OF EXCAVATION OF UNSUITABLE MATERIALS BETWEEN THE LIMITING STATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL. THE GRANULAR MATERIAL, USED BETWEEN THE LIMITING STATIONS AS EMBANKMENT ABOVE THE ORIGINAL GROUND LINE, SHALL BE PAID FOR AS 203 BORROW USING GRANULAR MATERIAL, AS PER PLAN.

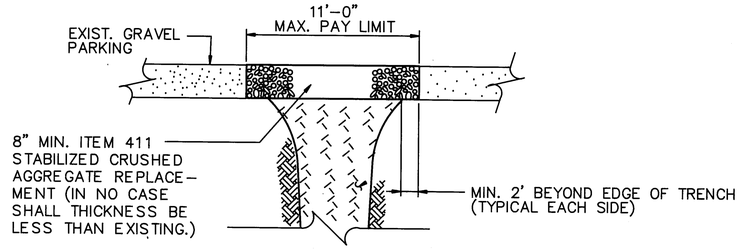
THE QUANTITY OF GRANULAR BORROW SHALL BE DETERMINED IN ACCORDANCE WITH 203.15(e) OF THE SPECIFICATIONS. THE QUANTITY OF GRANULAR BORROW, WHICH DOES NOT INCLUDE THE COST OF EXCAVATION, SHALL BE THE VOLUME MEASURED IN FINAL POSITION BY THE END AREA METHOD, PLUS 5% FOR COMPACTION, USING PROJECT CROSS SECTIONS. THE QUANTITY OF GRANULAR BORROW, INCLUDING THE COST OF EXCAVATION OF UNSUITABLE MATERIAL, SHALL BE THE TOTAL QUANTITY OF GRANULAR MATERIAL AS MEASURED BY 203.15(e) MINUS THE QUANTITY WHICH DOES NOT INCLUDE THE COST OF EXCAVATION, AS DETERMINED ABOVE.

CROSS–HATCHED SECTIONS ARE INCLUDED IN QUANTITIES TO ALLOW FOR POSSIBLE SLOUGHING AND UNDERCUTTING.

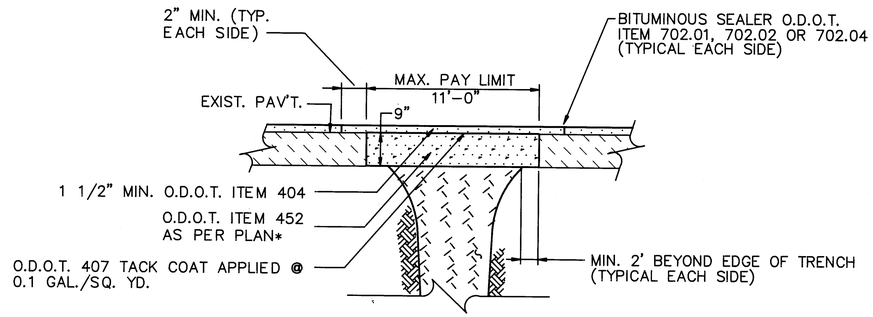
STORM SEWER DETAILS

CALC. BY KJS DATE 6/91	STA-241-4.22	OHIO	239
CHKD. BY CCH DATE 6/91		FHWA REGION 5	303

SEE STORM SEWER OUTLET SHEET 225
FOR LOCATION AND QUANTITIES



GRAVEL PARKING REPLACEMENT DETAIL

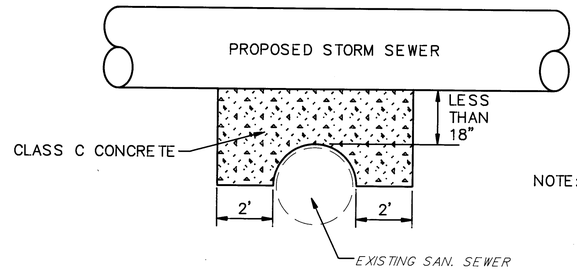


NOTES:

1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
2. SEE STORM SEWER OUTLET SHEET 225 FOR LOCATION AND QUANTITIES.

* SEE GENERAL NOTES SHEET 13.

TEMPORARY PAVEMENT REPLACEMENT
OVER STORM SEWER
(STORM OUTLET STA. 0+50 TO STA. 1+25)

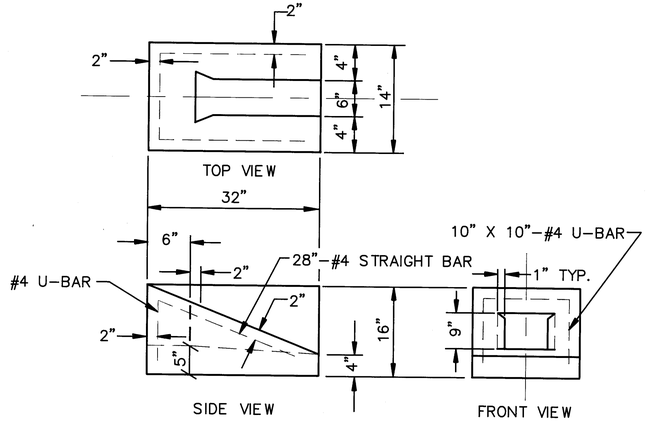


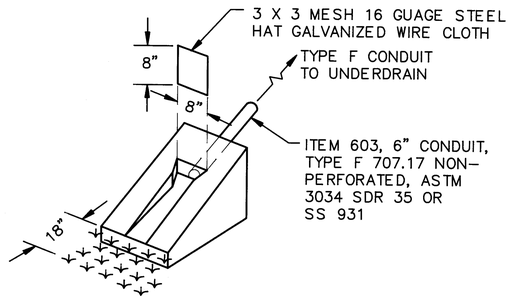
NOTE: THE COST OF THE CONCRETE COLLAR WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 603 CONDUIT.

CONCRETE COLLAR DETAIL
FOR PROPOSED STORM SEWER
OVER EXISTING SANITARY SEWER

ITEM SPECIAL – PRECAST REINFORCED CONCRETE OUTLET

THE CONCRETE OUTLET SHALL MEET THE REQUIREMENTS OF ITEM 604 IN THE CONSTRUCTION & MATERIALS SPECIFICATIONS. PAYMENT SHALL BE MADE ON AN EACH BASIS. PAYMENT SHALL INCLUDE THE COST OF THE SOD & WIRE CLOTH.





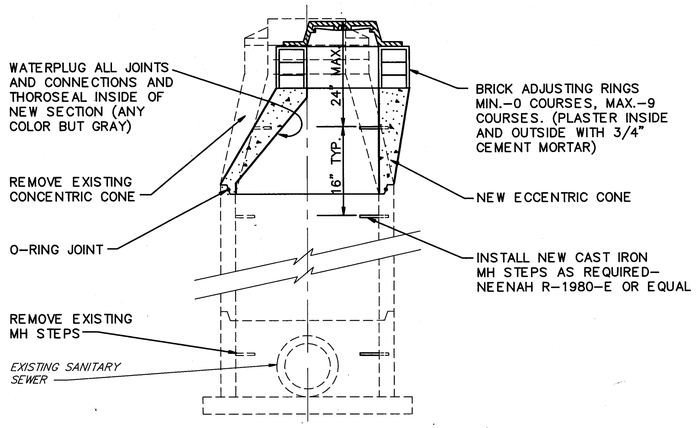
NOTE: THE SOD SHALL BE IN ACCORDANCE WITH ITEM 660 AND STAKED AT EACH CORNER APPROXIMATELY 3 INCHES FROM THE EDGE.

STATE ROUTE 241

STORM SEWER DETAILS

SANITARY SEWER DETAILS

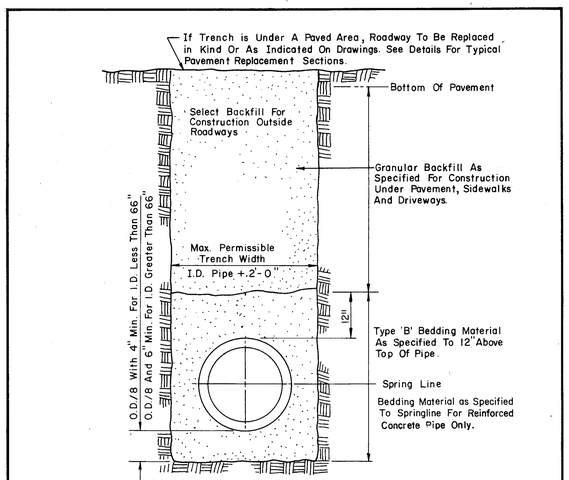
CALC. BY KJS DATE 6/91	STA – 241 – 4.22	OHIO	240 303
CHKD. BY CCH DATE 6/91		FHWA REGION 5	



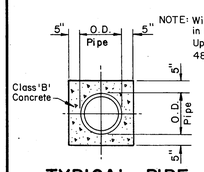
RECONSTRUCT MANHOLE DETAIL

SANITARY SEWERAGE NOTES

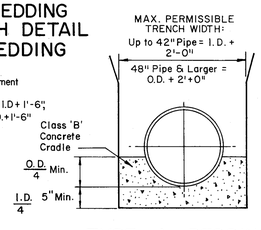
1. NO MANUFACTURED ADJUSTING RINGS WILL BE PERMITTED ON SANITARY MANHOLES. SANITARY MANHOLE CASTINGS SHALL ONLY BE ADJUSTED TO GRADE UTILIZING RED SHALE BRICK AS SPECIFIED BELOW.
2. THE TOTAL MAXIMUM NUMBER OF FULL BRICK COURSES (EXISTING AND NEW) ALLOWED IS NINE (9) COURSES, UNLESS OTHERWISE DIRECTED BY THE STARK COUNTY UTILITIES DEPARTMENT. ALL PROPOSED SANITARY MANHOLE ADJUSTMENTS ARE ANTICIPATED TO MEET THIS REQUIREMENT.
3. THE TOP EXISTING MANHOLE STEP SHALL NOT BE MORE THAN 2'–0" BELOW THE TOP OF FRAME UNLESS OTHERWISE DIRECTED BY THE STARK COUNTY UTILITIES DEPARTMENT. REQUIRED NEW STEPS SHALL BE NEENAH R–1080–E OR EQUAL AND PROJECT INTO THE BRICK 5" TO 6".
4. A CONCRETE COLLAR (DETAIL TO BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE STARK COUNTY UTILITIES DEPARTMENT) MAY BE UTILIZED IN LIEU OF AN O–RING JOINT WHEN NEW ECCENTRIC ADJUSTMENT CONE SECTIONS ARE NOT COMPATIBLE WITH THE EXISTING PRECAST MANHOLE SECTIONS.
5. ALL SEWER BRICK SHALL BE MADE FROM SHALE SEWER BRICK AND SHALL BE SMOOTH, SOUND, HARD, TOUGH, AND THOROUGHLY VITRIFIED. THEY SHALL BE TRUE IN FORM WITH STRAIGHT SHARP EDGES AND FLAT SURFACES, AND SHALL BE UNIFORM IN QUALITY, CROSS–SECTION AND DIMENSIONS. SHALE SEWER BRICK FURNISHED OR USED UNDER THESE SPECIFICATIONS SHALL COMPLY WITH ALL THE REQUIREMENTS FOR GRADE S.S., ASTM C–32 SO FAR AS THE SAME MAY APPLY AND ARE NOT IN CONFLICT WITH THESE SPECIFICATIONS.



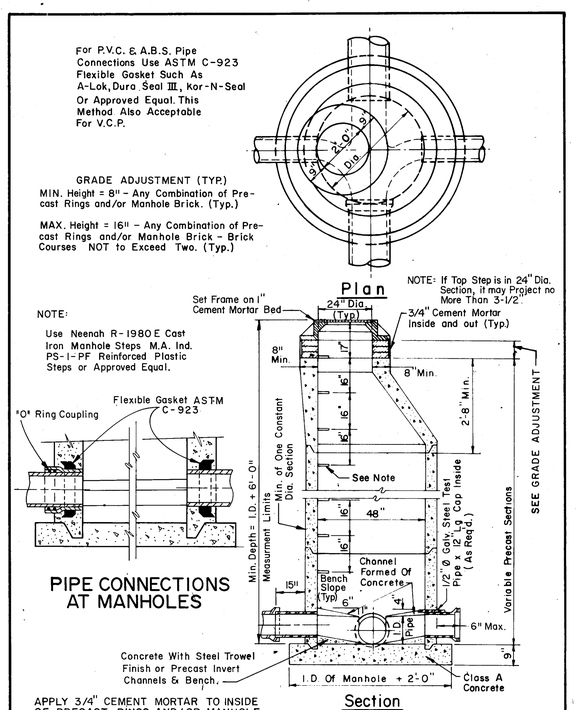
STANDARD BEDDING AND TRENCH DETAIL TYPE 'B' BEDDING



TYPICAL PIPE ENCASEMENT



TYPE A BEDDING



PIPE CONNECTIONS AT MANHOLES

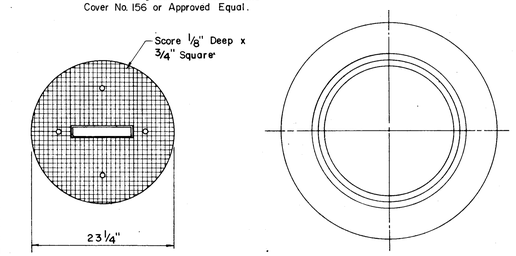
APPLY 3/4" CEMENT MORTAR TO INSIDE OF PRECAST RINGS AND/OR MANHOLE BRICK. APPLY 1/2" BITUMINUS SEAL TO OUTSIDE OF PRECAST RINGS AND/OR MANHOLE BRICK.

Section

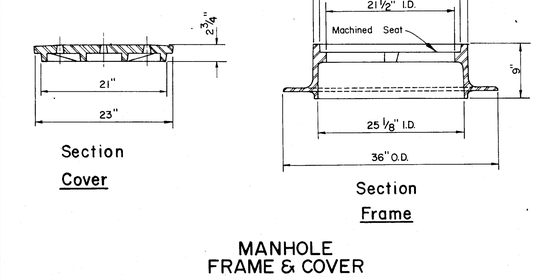
PRECAST MANHOLE TYPE A

NOTE: Neenah R-1924-I, East Jordan Iron Works # 2015 W/ Type C Vent Cover, East Akron Casting Co. Frame No. 155 and Cover No. 156 or Approved Equal.

NOTE: Cover Shall Bear The Words "SANITARY SEWER"



NOTE: WATERPROOF FRAME AND COVER
Waterproof Frame and Cover Shall Be Neenah R-1916-C, East Jordan Iron Works No. 1058 P.T. or Approved Equal.



MANHOLE FRAME & COVER

NO SCALE

MANHOLE NO. 3 AS PER PLAN, TYPE A
MANHOLE RECONSTRUCTED TO GRADE AS PER PLAN

SANITARY SEWER DETAILS

STA – 241 – 4.22

TRAFFIC CONTROL GENERAL SUMMARY

CALC. BY SJG DATE
CHKD. BY MPC DATE

STARK COUNTY
STA – 241 – 4.22

OHIO
FHWA REGION 5

241
303

ITEM	ITEM EXT.	SHEET NUMBER 236	245	244	243	242	CITY & STATE	STATE	ITEM	ITEM EXT.	QUANT.	UNIT	DESCRIPTION
630	00100			.66			–	.66	630	00100	.66	CU.YD.	CONCRETE FOR EMBEDDED FOUNDATION
630	02100	140	80				200	20	630	02100	200	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 2 POST
630	03100	130	208	234			507	65	630	03100	572	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
630	04100	78	169	247			312	182	630	04100	494	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 4 POST
630	06500			26			–	26	630	06500	26	LIN. FT.	GROUND MOUNTED SUPPORT, W6X9 BEAM
630	08100												
630	08500	4	3	4			9	2	630	08500	11	EACH	STREET NAME SIGN SUPPORT
630	09000			2			–	2	630	09000	2	EACH	BREAKAWAY BEAM CONNECTION
630	80100	138	196	212			417.5	128.5	630	80100	546	SQ. FT.	SIGN, FLAT SHEET
630	08500			95			–	95	630	80200	95	SQ. FT.	SIGN,EXTRUSHEET
630	80500	4	3	4			9	2	630	80500	11	EACH	SIGN, DOUBLE FACED, STREET NAME
630	85000				4		–	4	630	85000	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE
630	86006				3		–	3	630	86006	3	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND STORAGE
632	90100				1		1	–	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
642	00100					6.18	2.31	3.87	642	00100	6.18	MILE	EDGE LINE, TYPE 1
642	00200					1.20	.75	.45	642	00200	1.20	MILE	LANE LINE, TYPE 1
642	00300					4.16	2.40	1.76	642	00300	4.16	MILE	CENTER LINE, TYPE 1
642	00400					455	455	–	642	00400	455	LIN. FT	CHANNELIZING LINE, TYPE 1
642	00500					359	329	30	642	00500	359	LIN. FT	STOP LINE, TYPE 1
642	00700					570	570	–	642	00700	570	LIN. FT	TRANSVERSE LINE, TYPE 1
642	01300					10	10	–	642	01300	10	EACH	LANE ARROW, TYPE 1
642	01400					4	4	–	642	01400	4	EACH	WORD ON PAVEMENT, 72", TYPE 1
642	01000					4	4	–	642	01000	4	EACH	RAILROAD SYMBOL MARKING, TYPE 1
862	00100				455		167	288	862	00100	455	EACH	RAISED PAVEMENT MARKER

241TCGS.DWG

STA – 241 – 4.22

TRAFFIC CONTROL GENERAL SUMMARY

PAVEMENT MARKING SUB SUMMARY

CALC. BY SJG DATE	STARK COUNTY STA – 241 – 4.22	OHIO FHWA 5 REGION	242 303
CHKD. BY MPC DATE			

SHEET No.	STATION FROM	STATION TO	LOCATION	SIDE	ITEM 642, TYPE 1 EDGE LINES CITY & STATE	EDGE LINES STATE	LANE LINES CITY & STATE	LANE LINES STATE	CENTER LINES DOUBLE, SOLID CITY & STATE	DOUBLE, SOLID STATE	SINGLE, DASHED STATE	DOUBLE, SOLID & DASHED CITY & STATE	DOUBLE, SOLID & DASHED STATE	8" CHANNELIZING LINE CITY & STATE	24" STOP LINES CITY & STATE	24" STOP LINES STATE	CROSSWALK LINES CITY & STATE	TRANSVERSE WHITE CITY & STATE	TRANSVERSE YELLOW CITY & STATE	LANE ARROWS CITY & STATE	WORD "ONLY" ON PAVT CITY & STATE
				RT. LT.	MILES									LIN. FT.						EACH	
	11+00	151+00	SR 241	√ √	2.31	3.87															
	11+00	22+50	SR 241	√ √			.45														
	11+00	65+50	SR 241	√ √						1.03											
	8+00	12+00	GREENDALE	√ √						.08											
	9+73		GREENDALE	√												15					
	10+31		GREENDALE	√												15					
	65+50	78+00	SR 241	√ √									.24								
	78+00	81+00	SR 241	√ √						.06											
	81+00	88+00	SR 241	√ √									.13								
	88+00	93+00	SR 241	√ √							.09										
	93+00	96+40	SR 241	√ √									.06								
	96+40	104+25	SR 241	√ √					.07	.07											
	104+25	110+85	SR 241	√ √								.13									
	110+85	153+70	SR 241	√ √					1.02												
	110+85	114+65	SR 241	√ √															130		
	114+65	115+05	SR 241	√			.01														
	115+05	116+05	SR 241	√										100							
	115+21		SR 241	√ √																1	
	115+57		SR 241	√ √																	1
	115+88		SR 241	√ √																1	
	5+00	12+00	17TH ST	√ √					.13												
	9+66		17TH ST	√												15					
	10+36		17TH ST	√												15					
	116+60	117+75	SR 241	√										115							
	116+74		SR 241	√ √																1	
	117+04		SR 241	√ √																	1
	117+40		SR 241	√ √																1	
	117+75	118+15	SR 241	√			.01														
	118+15	121+95	SR 241	√ √															150		
	0+27	3+26	OBERLIN	√ √					.06												
	0+27		OBERLIN	√												40					
	3+26		OBERLIN	√												25					

SHEET No.	STATION FROM	STATION TO	LOCATION	SIDE	ITEM 642, TYPE 1 EDGE LINES CITY & STATE	EDGE LINES STATE	LANE LINES CITY & STATE	LANE LINES STATE	CENTER LINES DOUBLE, SOLID CITY & STATE	DOUBLE, SOLID STATE	SINGLE, DASHED STATE	DOUBLE, SOLID & DASHED CITY & STATE	DOUBLE, SOLID & DASHED STATE	8" CHANNELIZING LINE CITY & STATE	24" STOP LINES CITY & STATE	24" STOP LINES STATE	CROSSWALK LINES CITY & STATE	TRANSVERSE WHITE CITY & STATE	TRANSVERSE YELLOW CITY & STATE	LANE ARROWS CITY & STATE	WORD "ONLY" ON PAVT CITY & STATE	RAILROAD SYMBOL CITY & STATE
				RT. LT.	MILES									LIN. FT.						EACH		
	145+95	148+95	SR 241	√ √															110			
	149+25	149+65	SR 241	√			.01															
	149+65	150+80	SR 241	√										115								
	149+84		SR 241	√ √																1		
	150+21		SR 241	√ √																	1	
	150+51		SR 241	√ √																1		
	8+50	11+50	9TH ST	√ √					.06													
	9+64		9TH ST	√											25							
	10+35		9TH ST	√											25							
	151+12	152+35	SR 241	√										125								
	151+43		SR 241	√																1		
	151+73		SR 241	√																	1	
	152+10		SR 241	√																1		
	152+35	153+20	SR 241	√			.02															
	153+70	161+30	SR 241	√ √									.29									
	157+30		SR 241	√ √																1		
	157+62		SR 241	√ √																1		
	161+30	183+15	SR 241	√ √					.48													
	161+30	164+75	SR 241	√ √															180			
	164+75	183+15	SR 241	√ √			.70															
	8+00	12+00	6TH ST	√ √					.08													
	9+41		6TH ST	√											30							
	10+42		6TH ST	√											30							
	174+50		SR 241	√																		2
	176+24	177+36	SR 241	√											27							
	178+11	178+23	SR 241	√											27							
	180+78		SR 241	√																		2
	8+00	12+00	CLEVELAND	√ √					.08													
	9+57		CLEVELAND	√											20							
	10+44		CLEVELAND	√											50							
	* TOTALS				2.31	3.87	.75	.45	1.98	1.24	.09	.42	.43	455	329	30	–	–	570	10	4	4

* THESE TOTALS HAVE BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY. SEE SHEET NO. 241.

241PMSS.DWG

CALC. BY SJG DATE	STARK COUNTY STA – 241 – 4.22	OHIO FHWA 5 REGION	243 303
CHKD. BY MPC DATE			

SIGNING SUB SUMMARY

SIGN LOCATION						ITEM 630 EXISTING SIGNS REQUIRING WORK						STATE	STATE	CITY & STATE
SHEET No.	STATION	LOCATION	OFFSET	RT. OR LT.		M-2-24-3	M-37	W-68	R-38R			ITEM 630 REMOVAL OF GROUND MOUNTED POST SUPPORT & STORAGE	ITEM 630 REMOVAL OF GROUND MOUNTED SIGN & STORAGE	ITEM 632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION
						EACH						EACH	EACH	EACH
	11+57	SR 241	40	RT.		1	1					1	2	
	14+86	SR 241	69	LT.				1				1	1	
	14+92	SR 241	30	LT.					1			1	1	
	182+35	SR 241	–	–										1
* TOTALS						1	1	1	1			*3	*4	*1

* THESE QUANTITIES HAVE BEEN CARRIED OVER TO THE TRAFFIC CONTROL GENERAL SUMMARY SHEET No. 241 .

RAISED PAVEMENT MARKERS

ROADWAY	STATION TO STATION		INTERVAL	ITEM 862 ONE WAY WHITE STATE	ONE WAY YELLOW STATE	TWO WAY W/R STATE	TWO WAY Y/R STATE	TWO WAY W/W STATE	TWO WAY Y/Y CITY & STATE	TWO WAY Y/Y STATE
SR 241	11+00 TO 22+25	LT.	80			14				
SR 241	11+00 TO 22+25	RT.	80			14				
SR 241	16+25 TO 22+25	RT.	40	15						
SR 241	22+25 TO 29+10	RT.	40	17						
SR 241	29+10 TO 31+10	RT.	40	5						
SR 241	11+00 TO 110+85	L/R	40						27	223
SR 241	110+85 TO 114+65	L/R	40						20	
SR 241	114+65 TO 116+05	LT.	20						7	
SR 241	116+60 TO 118+15	RT.	20						8	
SR 241	118+15 TO 121+95	L/R	40						20	
SR 241	121+95 TO 145+95	L/R	40						60	
SR 241	145+95 TO 148+95	L/R	40						16	
SR 241	148+95 TO 150+81	LT.	20						9	
SUB–TOTALS				37		28			167	223
* TOTALS				CITY & STATE TOTAL = 167		STATE TOTAL = 288				

241SSSRW.DWG

CALC. BY SJG DATE	STARK COUNTY	OHIO
CHKD. BY MPC DATE	STA – 241 – 4.22	FHWA REGION 5

SIGNING SUB SUMMARY

NOTE: STREET NAME SIGNS SHALL BE VARIABLE IN LENGTH BY 9" HIGH

| SHEET No. | STATION | LOCATION | OFFSET | RIGHT | LEFT | ITEM 630 SIGNS — SIGN INSTALLATION REQUIRED — D-4B(12"X6") STATE | D-8Y(24"X8") CITY & STATE | D-8Y(24"X8") STATE | D-14(24"X8") CITY & STATE | D-14(24"X8") STATE | M-2-24-3 CITY & STATE | M-2-24-3 STATE | M-39-24 CITY & STATE | M-39-24 STATE | M-40-24 CITY & STATE | M-40-24 STATE | M-52A STATE | N-1-40 CITY & STATE | N-1-40 STATE | R-1-36 CITY & STATE | R-1-36 STATE | R-1-30 CITY & STATE | R-10-24 CITY & STATE | R-10-24 STATE | R-11A-24 STATE | R-31A-36 CITY & STATE | R-31A-36 STATE | W-24-36 CITY & STATE | W-24-36 STATE | W-26-36 STATE | W-53-36 STATE | W-60C-36 STATE | W-68-36 STATE | W-72-48 CITY & STATE | W-72-48 STATE | ITEM 630 GROUND MOUNTED SUPPORTS — No. of POST OR BEAM REQ'D CITY & STATE | No. of POST OR BEAM REQ'D STATE | No. 3 POST CITY & STATE | No. 3 POST STATE | No. 4 POST CITY & STATE | No. 4 POST STATE | W6X9 BEAM STATE | ITEM 630 — SIGNS, FLAT SHEET CITY & STATE | SIGNS, FLAT SHEET STATE | STREET NAME SIGN SUPPORT CITY & STATE | STREET NAME SIGN SUPPORT STATE | SIGNS, DOUBLE FACED STREET NAME CITY & STATE | SIGNS, DOUBLE FACED STREET NAME STATE | SIGNS, EXTRUSHEET STATE | CONCRETE FOR EMBEDDED FOUNDATIONS STATE | BREAKAWAY BEAM CONNECTION STATE |
|---|---|---

CALC. BY SJG DATE	STARK COUNTY	OHIO
CHKD. BY MPC DATE	STA – 241 – 4.22	FHWA REGION 5

245
303

SIGNING SUB SUMMARY

NOTE: STREET NAME SIGNS SHALL BE VARIABLE IN LENGTH BY 9" HIGH

SHEET No.	STATION	LOCATION	OFFSET	RIGHT	LEFT	ITEM 630 SIGNS — SIGN INSTALLATION REQUIRED																				ITEM 630 GROUND MOUNTED SUPPORTS				ITEM 630		
						D-8(24"X8")	D-14(24"X8")	M-2-24-3	M-39-24	M-40-24	R-1-30	R-10-24	R-11A-24	R-31A-36	R-48-24	RP-49-24	RP-51-24	W-24-36	W-26-36	W-48-30	X-4-18					No. of POST OR BEAM REQ'D	No. 2 POST	No. 3 POST	No. 4 POST	SIGNS, FLAT SHEET	STREET NAME SIGN SUPPORT	SIGNS, DOUBLE FACED STREET NAME
						CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE					CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE
						EACH																				EACH	LINEAR FEET			SQ.FT.	EACH	EACH
	0+70	EX. OBERLIN	15	✓																1						1		13		6.25		
	3+38	EX. OBERLIN	5	✓																1						1	10			2.25		
	3+38	EX. OBERLIN	5		✓															1						1	10			2.25		
	2+95	EX. OBERLIN	35	✓																1						1	10			2.25		
	3+05	EX. OBERLIN	35	✓																1						1	10			2.25		
	10+08	EX. OBERLIN	5	✓																1						1	10			2.25		
	10+08	EX. OBERLIN	5		✓															1						1	10			2.25		
	10+40	EX. OBERLIN	42		✓															1						1	10			2.25		
	10+50	EX. OBERLIN	42		✓															1						1	10			2.25		
	15+10	EX. OBERLIN	17		✓																1					1		13		6.25		
	122+00	SR241	30	✓		1												1								1			13	10.33		
	127+00	SR241	30		✓	1													1							1			13	10.33		
	131+00	SR241	30		✓			1		1																1			13	7		
	131+84	SR241	24		✓							1														1		13		5		
	0+63	OBERLIN	35		✓						1															1		13		6.25		
	3+06	OBERLIN	30	✓							1															1		13		6.25		
	133+00	SR241	24	✓			1																								1	1
	134+00	SR241	30	✓				1	1																	1			13	7		
	138+00	SR241	30		✓	1													1							1			13	10.33		
	146+00	SR241	30	✓		1													1							1			13	10.33		
	147+00	SR241	30	✓								1														1		13		5		
	148+45	SR241	34	✓									1													2		13/13		7.5		
	148+50	SR241	34		✓							1														1		13		5		
	149+87	SR241	34		✓			1		1																1			13	7		
	150+22	SR241	34	✓									1													2		13/13		7.5		
	150+62	SR241	32		✓	1																									1	1
	150+68	SR241	38		✓						1															1			13	6.25		
	151+23	SR241	39	✓							1															1			13	6.25		
	151+27	SR241	37	✓		1																									1	1
	151+79	SR241	25		✓								1													2		13/13		7.5		
	152+10	SR241	25	✓				1	1																	1			13	7		
	153+00	SR241	25	✓								1														1		13		5		
	153+80	SR241	25		✓								1													2		13/13		7.5		
	153+80	SR241	25	✓										1	1											1			13	7		
	161+30	SR241	25		✓									1	1											1			13	7		
	161+30	SR241	25	✓										1		1										1			13	7		
	TOTALS					4	3	4	2	2	4	3	1	4	3	2	1	1	3	2	8					37	*80	*208	*169	*196	*3	*3

*THESE QUANTITIES HAVE BEEN CARRIED OVER TO THE TRAFFIC CONTROL GENERAL SUMMARY ON SHEET 241.

241SSSB.DWG

CALC. BY SJG DATE
CHKD. BY MPG DATE

STARK COUNTY
STA – 241 – 4.22

OHIO
FHWA REGION 5

246
303

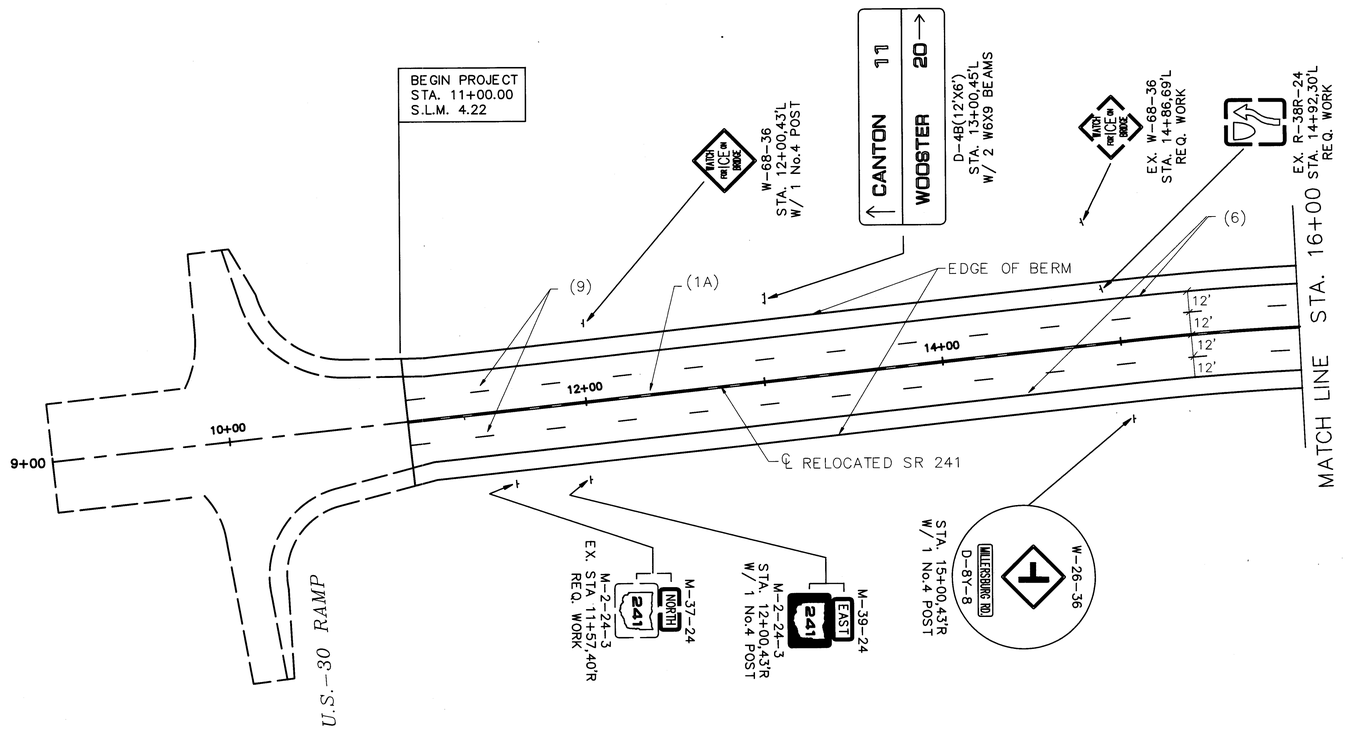
SIGNING SUB SUMMARY

NOTE: STREET NAME SIGNS SHALL BE VARIABLE IN LENGTH BY 9" HIGH

SHEET No.	STATION	LOCATION	OFFSET	RIGHT	LEFT	ITEM 630 SIGNS — SIGN INSTALLATION REQUIRED												ITEM 630 GROUND MOUNTED SUPPORTS						ITEM 630			
						D-14(24"X8")	M-2-24-3	M-39-24	M-40-24	R-1-30	R-10-24	W-48-30	W-53-36	W-60D-36	W-94-36	X-4-18		No. of POST OR BEAM REQ'D	No. 2 POST		No. 3 POST	No. 4 POST		SIGNS, FLAT SHEET		STREET NAME SIGN SUPPORT	SIGNS, DOUBLE FACED STREET NAME
						CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	CITY & STATE	STATE	CITY & STATE	CITY & STATE	STATE	CITY & STATE	CITY & STATE		CITY & STATE	STATE	CITY & STATE	CITY & STATE
						EACH												EACH	LINEAR FEET					SQ.FT.		EACH	EACH
	165+06	SR241	30		✓									1				1					13	9			
	165+35	SR241	40		✓	1																				1	1
	165+38	SR241	43		✓					1								1				13		6.25			
	166+14	SR241	44	✓						1								1				13		6.25			
	166+17	SR241	41	✓		1																				1	1
	169+00	SR241	30		✓								1					1					13	9			
	171+00	SR241	30		✓						1							1				13		5			
	171+00	SR241	30	✓							1							1				13		5			
	174+30	SR241	30	✓											1			1					13	7.07			
	180+00	SR241	30		✓		1		1									1					13	7			
	181+00	SR241	30		✓										1			1					13	7.07			
	181+64	SR241	41		✓	1																				1	1
	181+71	SR241	44		✓					1												13		6.25			
	182+51	SR241	42	✓						1								1				13		6.25			
	182+54	SR241	39	✓		1																				1	1
	183+00	SR241	30	✓			1	1										1					13	7			
	29+65	SR241	114		✓											1		1		1	0				2.25		
	29+70	SR241	112		✓											1		1		1	0				2.25		
	5+94	8th ST	15		✓							1						1				13		6.25			
	158+87	SR241	40	✓												1		1	10					2.25			
	158+97	SR241	40	✓												1		1	10					2.25			
	159+85	SR241	63	✓												1		1	10					2.25			
	159+85	SR241	73	✓												1		1	10					2.25			
	158+84	SR241	45		✓											1		1	10					2.25			
	158+94	SR241	45		✓											1		1	10					2.25			
	1+07	8th ST	15	✓								1						1				13		6.25			
	6+05	DUNCAN	20		✓							1						1				13		6.25			
	174+46	SR241	52		✓											1		1	10					2.25			
	174+56	SR241	56		✓											1		1	10					2.25			
	174+53	SR241	39	✓												1		1	10					2.25			
	174+63	SR241	41	✓												1		1	10					2.25			
	0+98	DUNCAN	18	✓								1						1				13		6.25			
	173+64	SR241		✓												1		1	10					2.25			
	173+64	SR241		✓												1		1	10					2.25			
TOTALS						4	2	1	1	4	2	4	1	1	2	12	2	27	2	*120	*20	*130	*78	*133.5	*4.5	*4	*4

*THESE QUANTITIES HAVE BEEN CARRIED OVER TO THE TRAFFIC CONTROL GENERAL SUMMARY ON SHEET _241_.

241SSSC.DWG



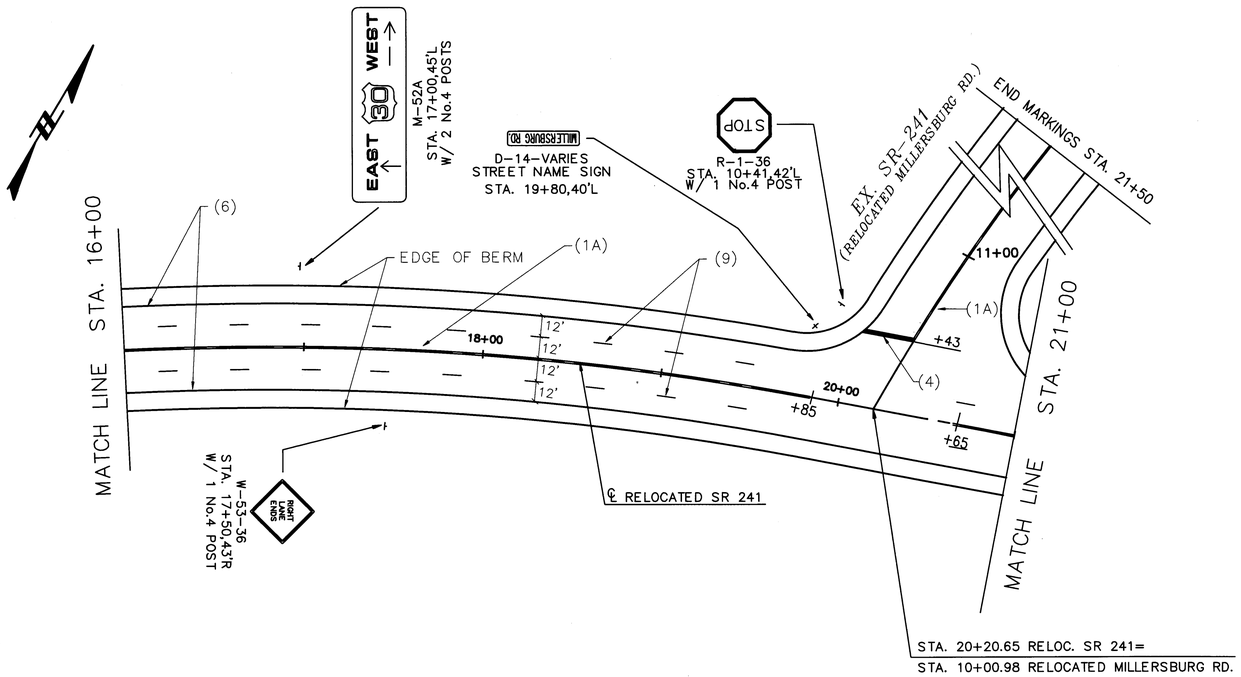
SCALE : 1"= 40'

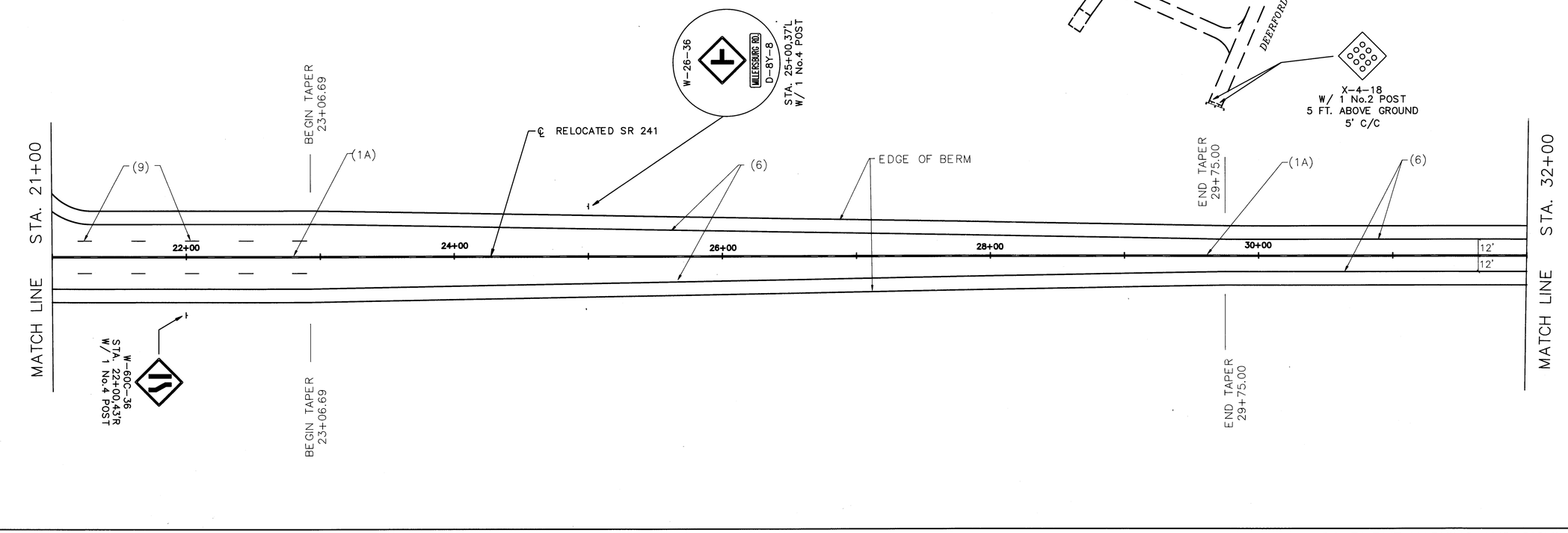
LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

CALC. BY SJG	STARK COUNTY	OHIO	248
DATE	STA – 241 – 4.22	FHWA REGION 5	303
CHKD. BY MPC			
DATE			





SCALE : 1"= 40'

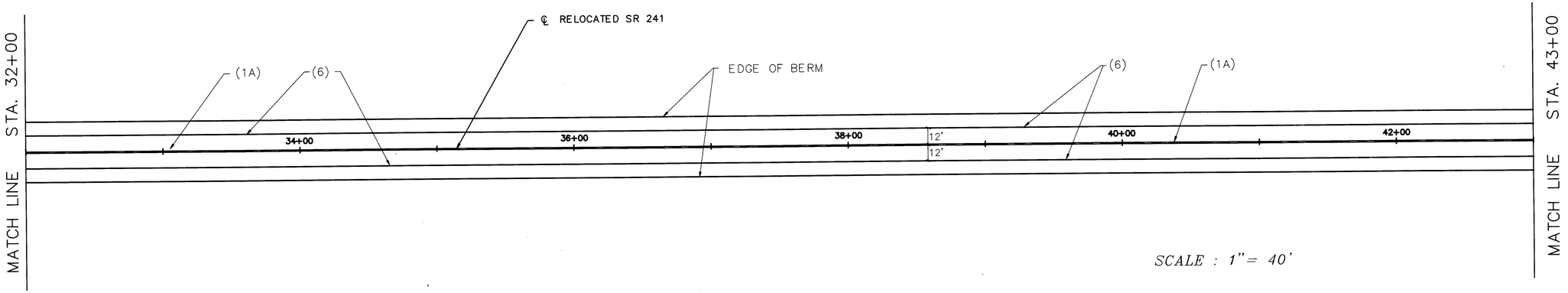
LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

86903018.DWG

CALC. BY SJG DATE	STARK COUNTY	OHIO
CHKD. BY MPC DATE	STA – 241 – 4.22	FHWA REGION 5

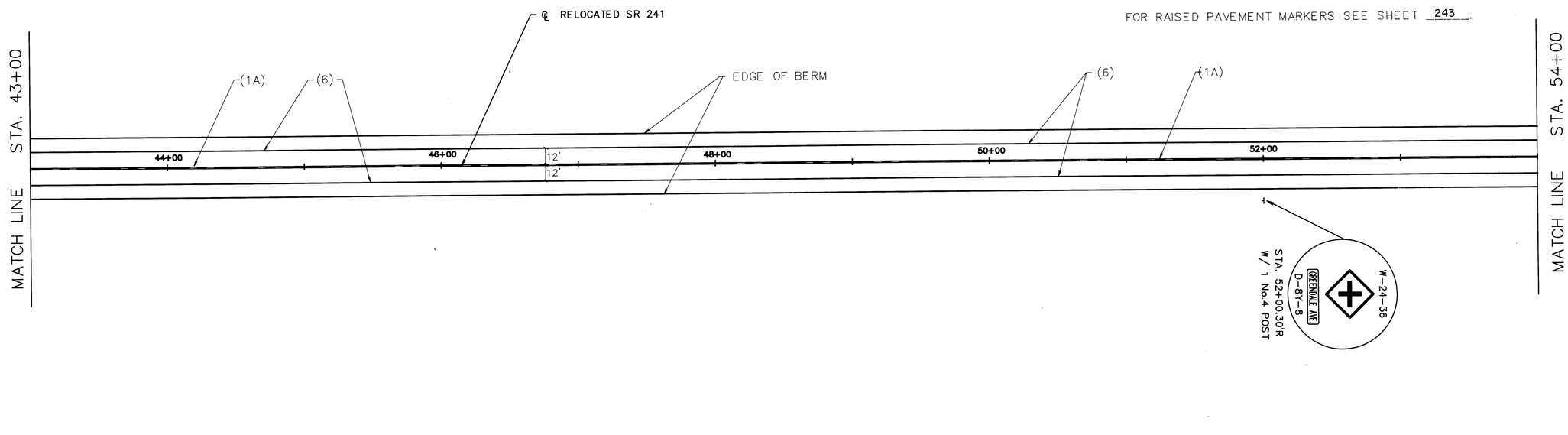


SCALE : 1"= 40'

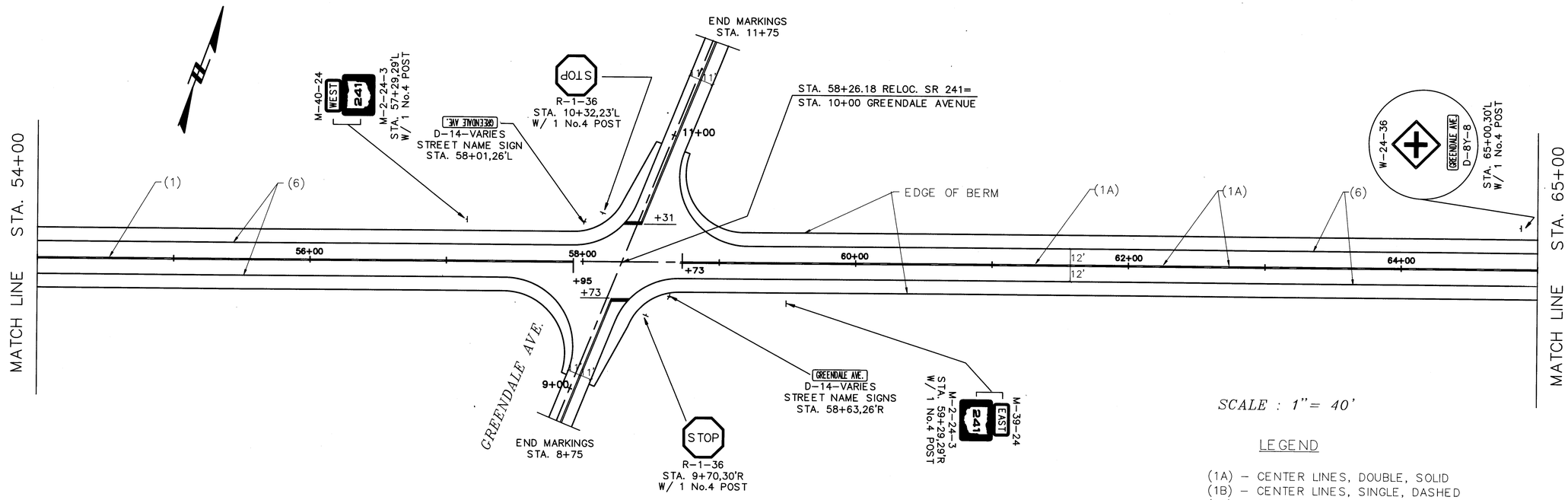
LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT MARKERS SEE SHEET 243.



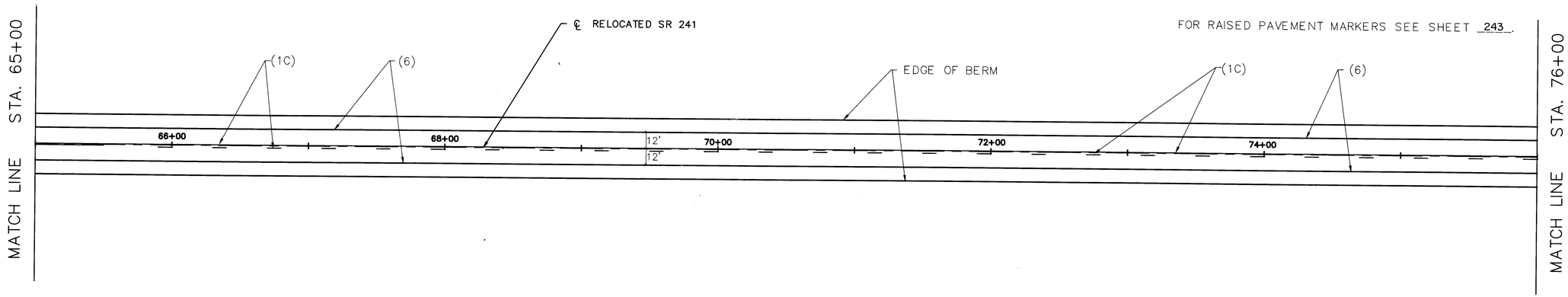
8690301C.DWG



SCALE : 1"= 40'

LEGEND

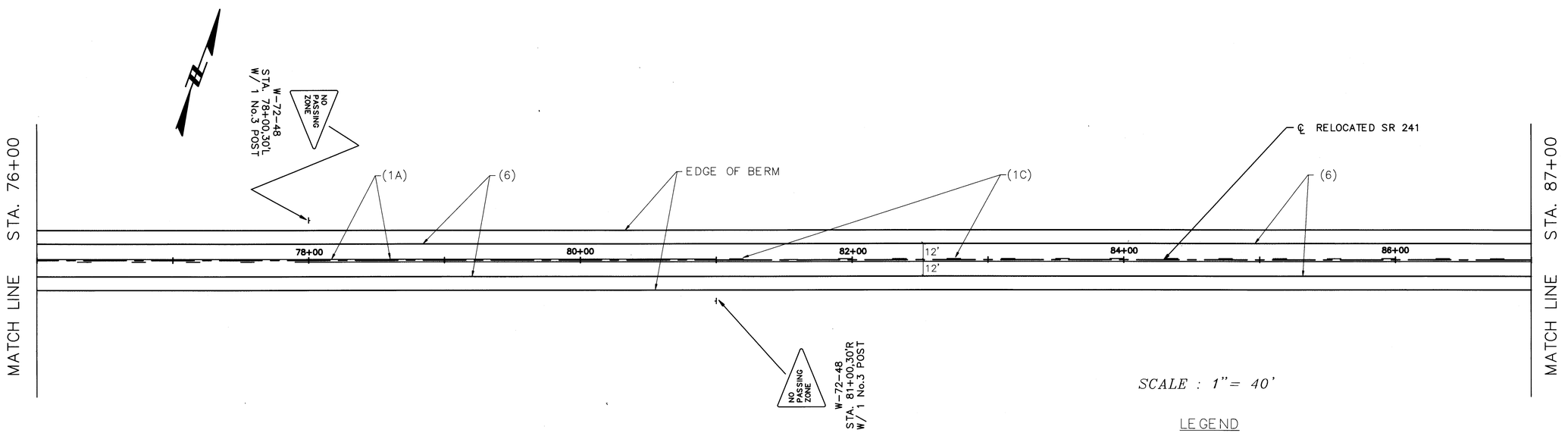
(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING



FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

8690301D.DWG

CALC. BY SJG DATE	STARK COUNTY	OHIO	251
CHKD. BY MPC DATE	STA – 241 – 4.22	FHWA REGION 5	303

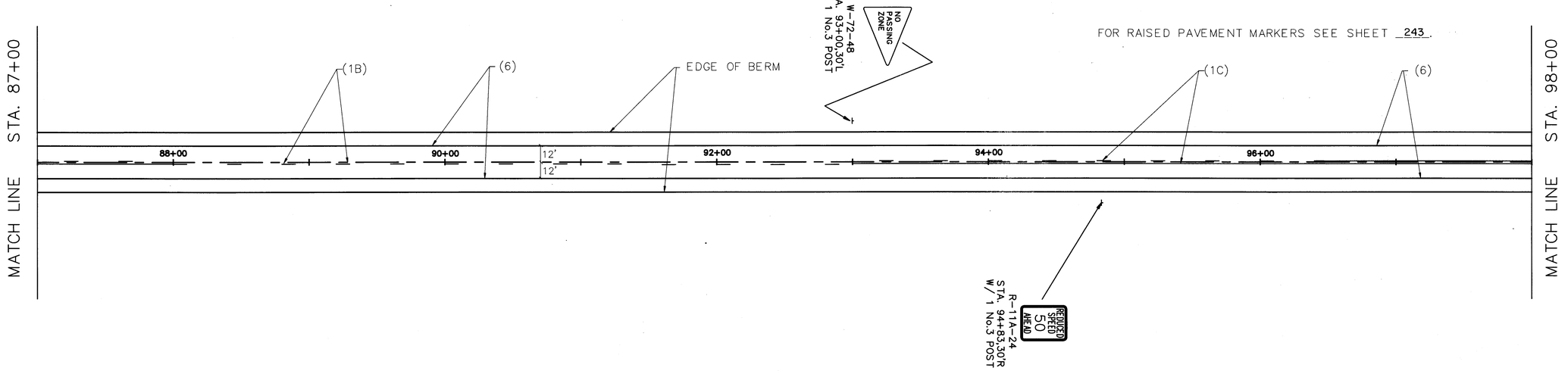


SCALE : 1"= 40'

LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

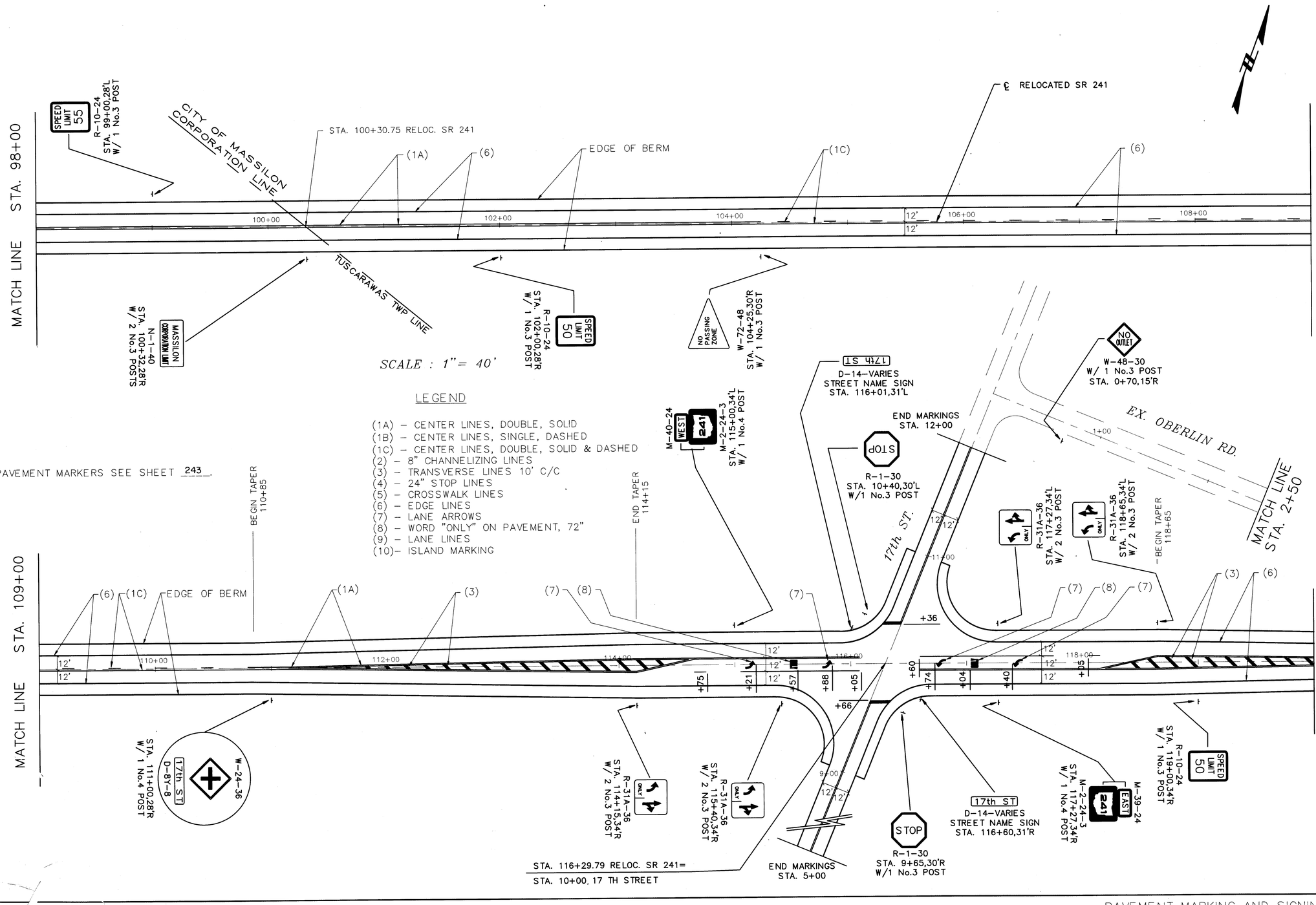
FOR RAISED PAVEMENT MARKERS SEE SHEET 243.



8690301E.DWG

STA – 241 – 4.22

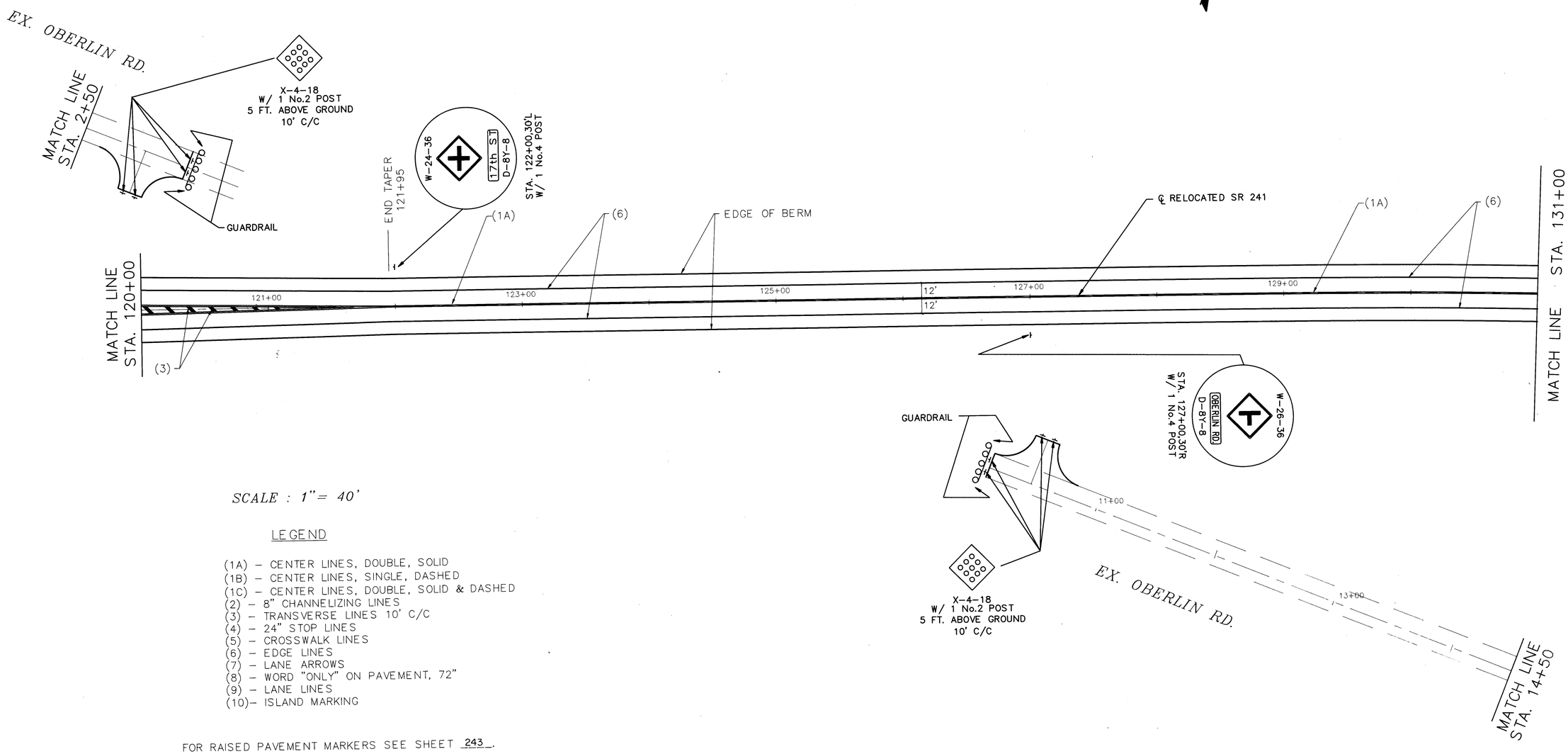
PAVEMENT MARKING AND SIGNING DETAILS



STA – 241 – 4.22

PAVEMENT MARKING AND SIGNING DETAILS

CALC. BY SJG	STARK COUNTY	OHIO	253
DATE	STA – 241 – 4.22	FHWA 5 REGION	303
CHKD. BY MPC			
DATE			



SCALE : 1"= 40'

LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

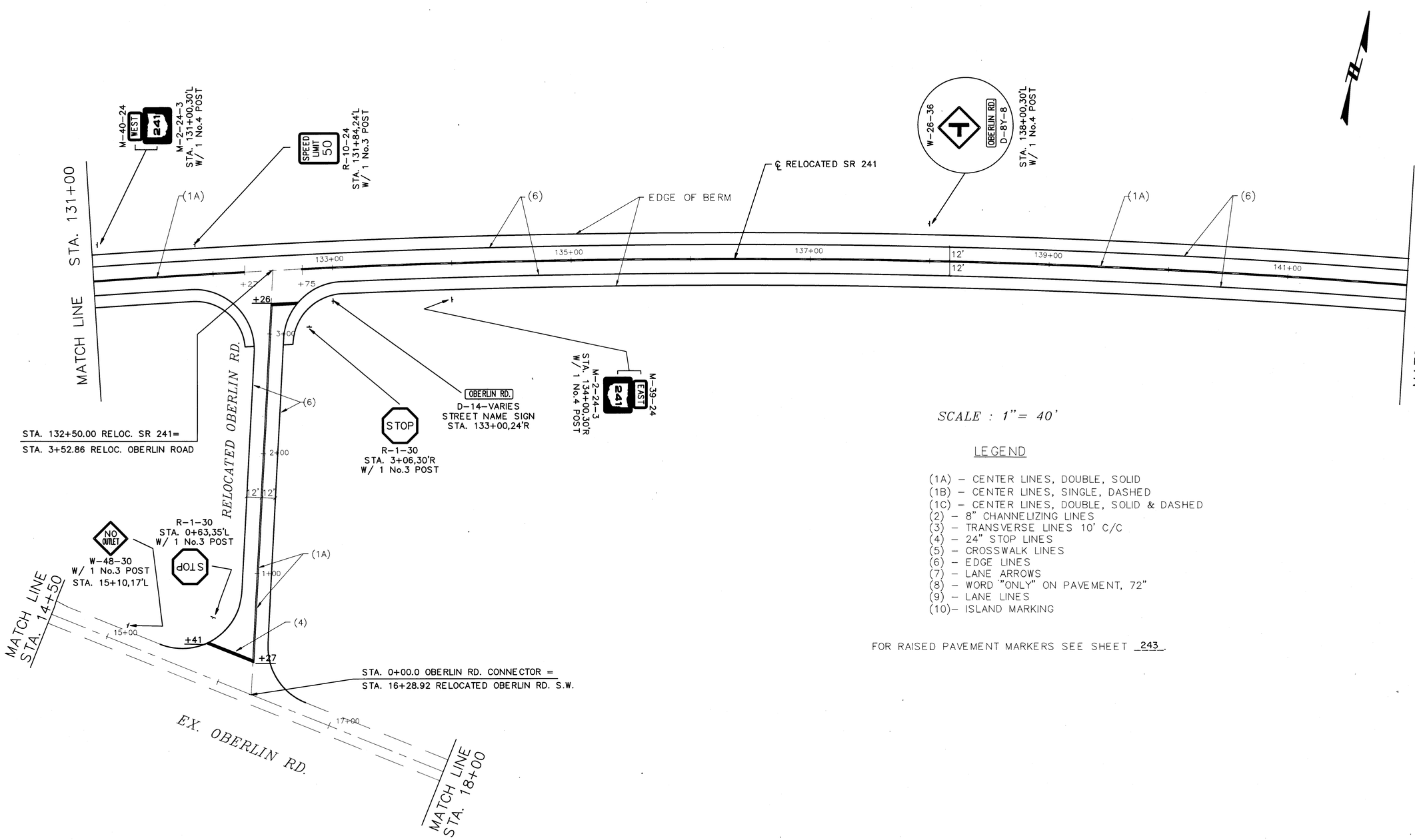
FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

86803010.DWG

PAVEMENT MARKING AND SIGNING DETAILS

STA – 241 – 4.22

CALC. BY SJG DATE	STARK COUNTY STA – 241 – 4.22	OHIO FHWA REGION 5	254 303
CHKD. BY MPC DATE			



SCALE : 1"= 40'

LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

8690301H.DWG

CALC. BY SJG	STARK COUNTY	OHIO	255
DATE	STA – 241 – 4.22	FHWA 5 REGION	303
CHKD. BY MPC			
DATE			

MATCH LINE STA. 142+00

(1A) (6) EDGE OF BERM

143+00 145+00 147+00 149+00 151+00

BEGIN TAPER 145+95

(3)

END TAPER 148+45

SPEED LIMIT 50 R-10-24 STA. 148+50,34'L W/ 1 No.3 POST

M-40-24 WEST 241 M-2-24-3 STA. 149+87,34'L W/ 1 No.4 POST

(9) (1) (2)

+35 +84 +21 +5 +81 +12 +43 73 +10 +65 +64

LS 476 D-14-VARIES STA. 150+62,34'L

STOP R-1-30 STA. 150+68,38'L W/ 1 No.3 POST

STA. 150+97.70 SR 241(CONST.)
STA. 10+00 9 TH STREET

END MARKINGS STA. 11+50

9th ST.

12' 12' 14' 12' 14' 14'

(7) (8) (7) (2) (1A) (9)

R-31A-36 ONLY STA. 151+79,25'L W/ 1 No.3 POST

M-39-24 EAST 241 M-2-24-3 STA. 152+10,25'R W/ 1 No.4 POST

R-10-24 STA. 153+00,25'R W/ 1 No.3 POST

SPEED LIMIT 35

MATCH LINE STA. 153+00

SCALE : 1"= 40'

LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT MARKERS SEE SHEET 243.

STA. 146+00,30'R W/ 1 No.4 POST

9th ST D-8Y-8 W-24-36

BEGIN TAPER 145+95

R-11A-24 STA. 147+00,30'R W/ 1 No.3 POST

REDUCED SPEED 35 AHEAD

R-31A-36 ONLY STA. 148+45,34'R W/ 2 No.3 POSTS

END TAPER 148+45

R-31A-36 ONLY STA. 150+22,34'R W/ 2 No.3 POSTS

END MARKINGS STA. 8+50

STOP R-1-30 STA. 151+23,39'R W/ 1 No.3 POST

9th ST D-14-VARIES STA. 151+27,37'R

W-48-30 NO OUTLET STA. 5+94, 15'L W/ 1 No.3 POST

GRIFFITH AVE.

8th ST.

X-4-18 W/ 1 No.2 POST 5 FT. ABOVE GROUND 10' C/C

RP-49-24 BEGIN CENTER LANE ONLY R-48-24 STA. 161+30,25'L W/ 1 No.4 POST

BEGIN TAPER 161+75

MATCH LINE STA. 153+00

153+70

R-31A-36 ONLY STA. 153+80,25'L W/ 2 No.3 POST

(1C) (7) (1C) (3) (1A)

155+00 157+00 159+00 161+00 163+00

14' 12' 14' 32' +30 +62

MATCH LINE STA. 164+00

STA. 153+80,25'R W/ 1 No.4 POST

R-48-24 CENTER LANE ONLY RP-49-24 BEGIN

X-4-18 W/ 1 No.2 POST 5 FT. ABOVE GROUND 10' C/C

8th ST.

PENNOCK AVE.

NO OUTLET W-48-30 STA. 1+07, 15'R W/ 1 No.3 POST

OBERLIN RD.

STA. 161+30,25'R W/ 1 No.4 POST

R-48-24 CENTER LANE ONLY RP-51-24 END

8690301.DWG

STA – 241 – 4.22

PAVEMENT MARKING AND SIGNING DETAILS

CALC. BY SJG	STARK COUNTY	OHIO	256
DATE	STA – 241 – 4.22	FHWA REGION 5	303
CHKD. BY MPC			
DATE			

MATCH LINE STA. 164+00

MATCH LINE STA. 175+00

6th ST

D-14-VARIES
STREET NAME SIGN
STA. 165+35,40'L

W-60D-36
STA. 165+06,30'L
W/1 No.4 POST

R-1-30
STA. 165+38,43'L
W/ 1 No.3 POST

END TAPER
164+75

END MARKINGS
STA. 11+50

STA. 165+75.15 RELOC. SR 241=
STA. 10+00 6 TH STREET

℄ RELOCATED SR 241

W-53-36
STA. 169+00,30'L
W/ 1 No.4 POST

R-10-24
STA. 171+00,30'L
W/ 1 No.3 POST

GRIFFITH AVE.

W-48-30
STA. 6+05, 20'L
W/ 1 No.3 POST

X-4-18
W/ 1 No.2 POST
5 FT. ABOVE GROUND
10' C/C

DUNCAN ST.

PENNOCK AVE.

W-94-36
STA. 174+30,30'R
W/ 1 No.4 POST

6th ST

D-14-VARIES
STREET NAME SIGN
STA. 166+17,41'R

R-1-30
STA. 166+14,44'R
W/ 1 No.3 POST

END MARKINGS
STA. 8+00

M-40-24
WEST 241

M-2-24-3
STA. 180+00,30'L
W/ 1 No.4 POST

R-10-24
STA. 171+00,30'R
W/ 1 No.3 POST

CLEVELAND ST

D-14-VARIES
STREET NAME SIGN
STA. 181+64,41'L

R-1-30
STA. 181+71,44'L
W/ 1 No.3 POST

W-94-36
STA. 181+00,30'L
W/ 1 No.4 POST

END MARKINGS
STA. 6+60

CLEVELAND ST.

STA. 182+37.86 RELOC SR 241=
STA. 5+00 CLEVELAND STREET

END WORK
STA. 183+15

END MARKINGS
STA. 3+85

CLEVELAND ST

D-14-VARIES
STREET NAME SIGN
STA. 182+54,39'R

R-1-30
STA. 182+51,42'R
W/ 1 No.3 POST

M-39-24
EAST 241

M-2-24-3
STA. 183+00,30'R
W/ 1 No.4 POST

NO OUTLET

W-48-30
STA. 0+98, 18'R
W/ 1 No.3 POST

OBERLIN RD.

CONRAIL

SCALE : 1"= 40'

LEGEND

(1A) – CENTER LINES, DOUBLE, SOLID
(1B) – CENTER LINES, SINGLE, DASHED
(1C) – CENTER LINES, DOUBLE, SOLID & DASHED
(2) – 8" CHANNELIZING LINES
(3) – TRANSVERSE LINES 10' C/C
(4) – 24" STOP LINES
(5) – CROSSWALK LINES
(6) – EDGE LINES
(7) – LANE ARROWS
(8) – WORD "ONLY" ON PAVEMENT, 72"
(9) – LANE LINES
(10)– ISLAND MARKING

FOR RAISED PAVEMENT
MARKERS SEE SHEET 243.

8690301K.DWG

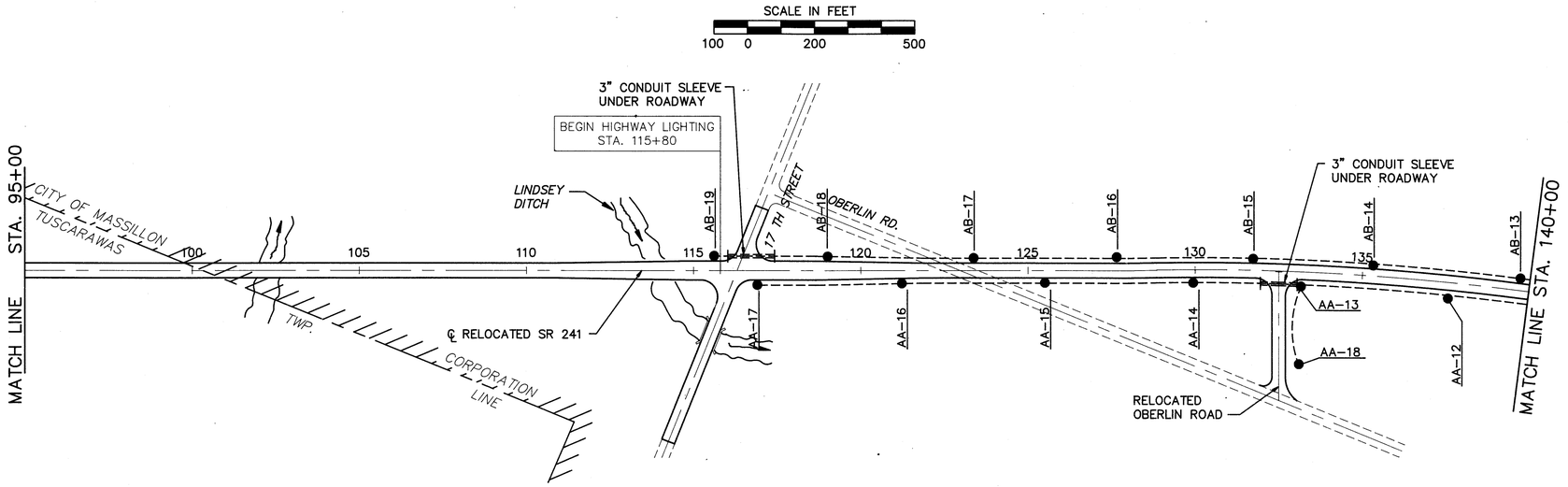
STA – 241 – 4.22

PAVEMENT MARKING AND SIGNING DETAILS

SCHEMATIC LIGHTING PLAN

CALC. BY F.L.F. DATE 6/28/91	STA-241-4.22	OHIO
CHKD. BY C.C.H. DATE 6/29/91		FHWA REGION 5

257
303

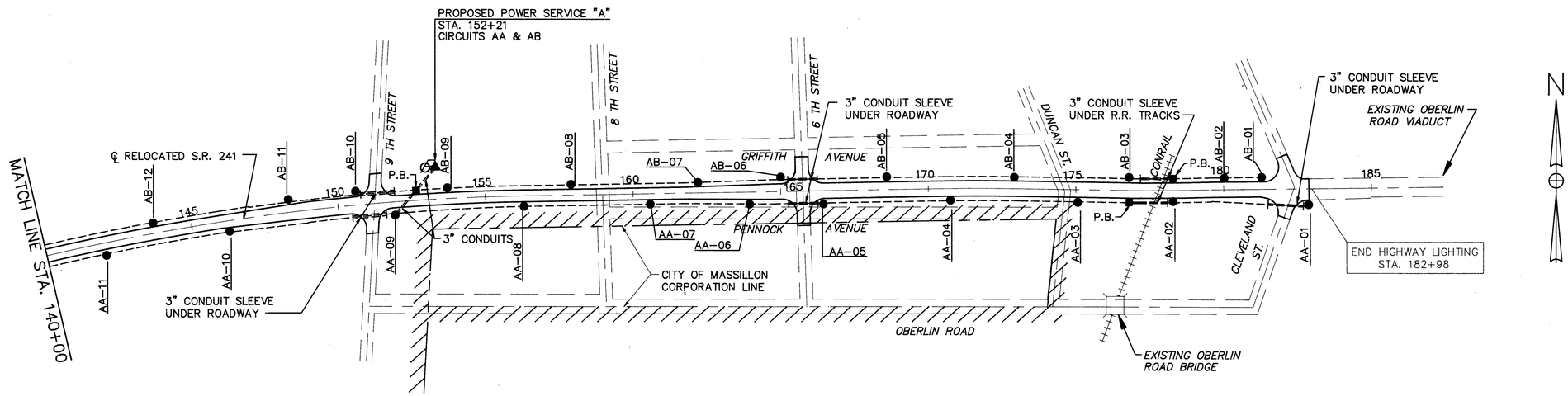


CONTROL CENTER DATA

CONTROL CENTER	SERVICE VOLTAGE	CONNECTED LOAD KVA	SERVICE ENTRANCE CONDUCTOR SIZE-AWG	ENCLOSURE RATING AMPS	CIRCUIT NUMBER	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	MAINTAINING AGENCY	REMARKS
A	480 VOLTS 1ø,2 WIRE, GROUNDED NEUTRAL	17.58	2-#4	60	AA	17.8	30	CITY OF MASSILLON	
					AB	18.8	30		

LIGHTING PLAN LEGEND

- ▲ – PROPOSED POWER SERVICE
- ○—⊠ – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- ------ – PROPOSED DUCT CABLE (2 #4AWG)
- ■ – PROPOSED PULL BOX
- ⊏=====⊐ – 3" CONDUIT, 2 #4, 24" BELOW GRADE



86903E01

STATE ROUTE 241

SCHEMATIC LIGHTING PLAN

LIGHTING NOTES

POWER SERVICE

THE POWER SUPPLY AGENCY FOR THIS PROJECT IS:

OHIO EDISON COMPANY
2600 S. ERIE STREET
MASSILLON, OHIO 44646
ATTN: MR. KEN DOWNS
1-800-223-8409

OHIO EDISON WILL PROVIDE AND INSTALL THE SERVICE TRANSFORMER, PRIMARY CONTROL SWITCH SERVICE METER ASSEMBLY AND SECONDARY CONDUCTORS TO WEATHERHEAD. CONTRACTOR SHALL INSTALL METER ASSEMBLY, PROVIDE AND INSTALL SERVICE POLE, WEATHERHEAD WITH CONDUCTORS AND CONTROL CENTER. LIGHTING WILL RECEIVE 480 VOLT TWO-WIRE SECONDARY SERVICE, ONE SIDE GROUND.

IN ADDITION TO THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES MADE BY THE POWER COMPANY FOR THE ESTABLISHMANT OF ELECTRICAL SERVICE AT EACH POINT SPECIFIED IN THE PLANS.

UPON COMPLETION OF THE PROJECT, THE ENERGY ACCOUNT SHALL BE PAID CURRENT AND THE ACCOUNT TRANSFERED TO THE MAINTAINING AGENCY SPECIFIED IN THE PLANS.

PAYMENT TO THE CONTRACTOR IS INCIDENTAL TO ITEM 625 "POWER SERVICE".

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.04 O.R.C.

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

OHIO WATER SERVICE
123 THIRD STREET, S.E.
MASSILLON, OHIO 44648
216-833-4158

OHIO EDISON COMPANY
663 SOUTH ERIE
MASSILLON, OHIO 44646
216-833-3141

EAST OHIO GAS COMPANY
7015 FREEDOM AVENUE, N.W.
NORTH CANTON, OHIO 44720
216-497-5132

BELDEN BLAKE COMPANY
7555 FREEDOM AVENUE, N.W.
NORTH CANTON, OHIO 44720
216-499-1660

OHIO BELL TELEPHONE COMPANY
832 MCKINLEY AVENUE, N.W.
CANTON, OHIO 44703
216-489-2632

MASSILLON CABLE TELEVISION
814 CABLE COURT
P.O. BOX 814
MASSILLON, OHIO44646
216-833-4143

CITY OF MASSILLON
CITY HALL
MASSILLON, OHIO 44646
216-833-1058

STARK COUNTY SANITARY ENGINEER
STARK COUNTY OFFICE BUILDING
CANTON, OHIO 44702

STARK COUNTY ENGINEER
5165 SOUTHWAY STREET, S.W.
CANTON, OHIO 44706

625.07 - 713.11 LUMINAIRES

STYLE B LUMINAIRES SHALL HAVE SINGLE RATED 480 VOLT, 250 WATT, INTEGRAL REGULATOR BALLASTS FOR USE WITH HIGH PRESSURE SODIUM LAMPS AND SHALL BE GENERAL ELECTRIC M250R, CROUSE-HINDS OVM, AMERICAN 25/26 OR EQUAL APPROVED BY THE ENGINEER.

713.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", WESTINGHOUSE "CERAMALUX", SYLVANIA "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO STANDARD DRAWINGS FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ESTIMATED QUANTITY OF 40 LINEAR FEET OF ITEM 603, 4" CONDUIT TYPE E IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE. (SEE SHEET 259)

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08 PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

LIGHTING GENERAL SUMMARY

CALC. BY F.I.F. DATE 6/28/91	STA-241-4.22	OHIO	259
CHKD. BY C.C.H. DATE 6/29/91		FHWA REGION 5	303

ITEM	SHEET NUMBER 260	SHEET NUMBER 258	PLAN NOTES	CIRCUIT 'B'	CIRCUIT 'A'	CITY & STATE	STATE	ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION
												LIGHTING
603		40	40	–	–	40		603	00400	40	LIN. FT.	4" CONDUIT, TYPE E
625	37			19	18	37		625	00500	37	EACH	CONNECTOR KIT, TYPE II
625	37			19	18	37		625	00600	37	EACH	CONNECTOR KIT, TYPE III
625	4			–	4	4		625	01004	4	EACH	CONNECTOR KIT, TYPE VII B
625	4			2	2	4		625	01500	4	EACH	CABLE SPLICING KIT
625	1			–	1	1		625	06200	1	EACH	LIGHT POLE, DESIGN AT10B41.7
625	36			19	17	36		625	06400	36	EACH	LIGHT POLE, DESIGN AT15B41.7
625	37			19	18	37		625	14100	37	EACH	LIGHT POLE FOUNDATION, 24" x 8' DEEP
625	310			152	158	310		625	23200	310	LIN. FT.	NO. 4 AWG 5000 VOLT DISTRIBUTION CABLE
625	4,171			2,147	2,024	4,171		625	23400	4,171	LIN. FT.	NO. 10 AWG POLE AND BRACKET CABLE
625	13,810			6,850	6,960	13,810		625	24100	13,810	LIN. FT.	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 5000 VOLT CABLES
625	805			416	389	805		625	25500	805	LIN. FT.	CONDUIT, 3", 713.04
625	37			19	18	37		625	26401	37	EACH	LUMINAIRE, STYLE B, TYPE II, 250 WATT HIGH PRESSURE SODIUM, 713.11, 480 VOLT, AS PER PLAN
625	13,515			6,686	6,829	13,515		625	29002	13,515	LIN. FT.	TRENCH, 24" DEEP
625	3			1	2	3		625	30700	3	EACH	PULL BOX, 713.08, 18"
625	37			19	18	37		625	32000	37	EACH	GROUND ROD (713.16)
625	1			–	–	1		625	34000	1	EACH	POWER SERVICE 'A'
625				–	–	LUMP		625	38000	LUMP	LUMP	HIGH VOLTAGE TEST

LIGHTING SUB-SUMMARY

CALC. BY E.L.E. DATE 5/28/79
CHKD. BY C.C.H. DATE 5/29/79

STA-241-4.22

OHIO
FHWA REGION 5

260
303

REFERENCE	STATION FROM	STATION TO	SIDE	ITEM	625 CONNECTOR KIT, TYPE II EA	625 CONNECTOR KIT, TYPE III EA	625 CONNECTOR KIT, TYPE VII B EA	625 CABLE SPLICING KIT EA	625 LIGHT POLE, DESIGN AT10B41.7 EA	625 LIGHT POLE, DESIGN AT15B41.7 EA	625 LIGHT POLE FOUNDATION, 24" x 8' DEEP EA	625 NO. 10 AWG, POLE AND BRACKET CABLE LF.	625 1-1/2" DUCT CABLE WITH TWO NO. 4 AWG, 5000 VOLT CABLES L.F.	625 NO. 4 AWG, 5000 VOLT DISTRIBUTION CABLE L.F.	625 CONDUIT, 3", 713.04 L.F.	625 LUMINAIRE, STYLE B, TYPE II, 250 WATT HIGH PRESSURE SODIUM, 713.11, 480 VOLT, AS PER PLAN EA	625 TRENCH, 24" DEEP L.F.	625 PULL BOX, 713.08, 18" EA	625 GROUND ROD (713.16) EA	625 POWER SERVICE 'A' EA
	CIRCUIT 'B'																			
1	115+80	119+04	LT	AB-19	1	1				1	1	113	334		110	1	324		1	
2	119+04	123+34	LT	AB-18	1	1				1	1	113	440			1	430		1	
3	123+34	127+64	LT	AB-17	1	1				1	1	113	440			1	430		1	
4	127+64	131+94	LT	AB-16	1	1				1	1	113	440		30	1	430		1	
5	131+94	135+15	LT	AB-15	1	1				1	1	113	331			1	321		1	
6	135+15	139+45	LT	AB-14	1	1				1	1	113	440			1	430		1	
7	139+45	143+75	LT	AB-13	1	1				1	1	113	440		35	1	430		1	
8	143+75	148+05	LT	AB-12	1	1				1	1	113	440			1	430		1	
9	148+05	150+33	LT	AB-11	1	1				1	1	113	238			1	228		1	
10	151+54(RT)	152+21	LT	–									140		100		120	1		
11	152+21	153+69	LT	–									170				150			1
12	150+33	152+21	LT	AB-10	1	1				1	1	113	198			1	188		1	
13	153+69	157+99	LT	AB-9	1	1				1	1	113	440			1	430		1	
14	157+99	162+29	LT	AB-8	1	1				1	1	113	440			1	430		1	
15	162+29	165+07	LT	AB-7	1	1				1	1	113	288			1	278		1	
16	165+07	168+93	LT	AB-6	1	1				1	1	113	372		75	1	362		1	
17	168+69	172+93	LT	AB-5	1	1				1	1	113	434			1	424		1	
18	172+93	177+20	LT	AB-4	1	1				1	1	113	437			1	427		1	
19	177+20	179+99	LT	AB-3	1	1		2		1	1	113	223	152	66	1	279	1	1	
20	179+99	181+44	LT	AB-2	1	1				1	1	113	165			1	145		1	
21	181+44	———	LT	AB-1	1	1				1	1	113				1			1	
SUBTOTAL 'B'					19	19	0	2		19	19	2147	6854	152	416	19	6686	2	19	1
	CIRCUIT 'A'																			
22	116+89	121+19	RT	AA-17	1	1				1	1	113	440			1	430		1	
23	121+19	125+49	RT	AA-16	1	1				1	1	113	440			1	430		1	
24	125+49	129+79	RT	AA-15	1	1				1	1	113	440			1	430		1	
25	129+79	133+00	RT	AA-14	1	1				1	1	113	331		100	1	321		1	
26	133+00	1+12 OBERLIN RD	RT	AA-18	1	1				1	1	113	240			1	220		1	
27	133+00	137+30	RT	AA-13	1	1	2			1	1	113	440			1	430		1	
28	137+30	141+60	RT	AA-12	1	1				1	1	113	440			1	430		1	
29	141+60	145+90	RT	AA-11	1	1				1	1	113	440			1	430		1	
30	145+90	151+54	RT	AA-10	1	1				1	1	113	574		100	1	564		1	
31	151+54	155+84	RT	AA-9	1	1	2			1	1	113	450			1	430		1	
32	155+84	160+14	RT	AA-8	1	1				1	1	113	440			1	430		1	
33	160+14	163+87	RT	AA-7	1	1				1	1	113	383			1	373		1	
34	163+87	166+46	RT	AA-6	1	1				1	1	113	269			1	259		1	
35	166+46	170+78	RT	AA-5	1	1				1	1	113	442			1	432		1	
36	170+78	175+08	RT	AA-4	1	1				1	1	113	440			1	430		1	
37	175+08	177+84	RT	AA-3	1	1				1	1	113	217	158	69	1	276	1	1	
38	177+84	182+98	RT	AA-2	1	1		2	1		1	103	534		120	1	514		1	
39	182+98	———	RT	AA-1	1	1				1	1	113				1			1	
SUBTOTAL 'A'					18	18	4	2	1	17	18	2024	6960	158	389	18	6829	1	18	–

86903E20

STATE ROUTE 241

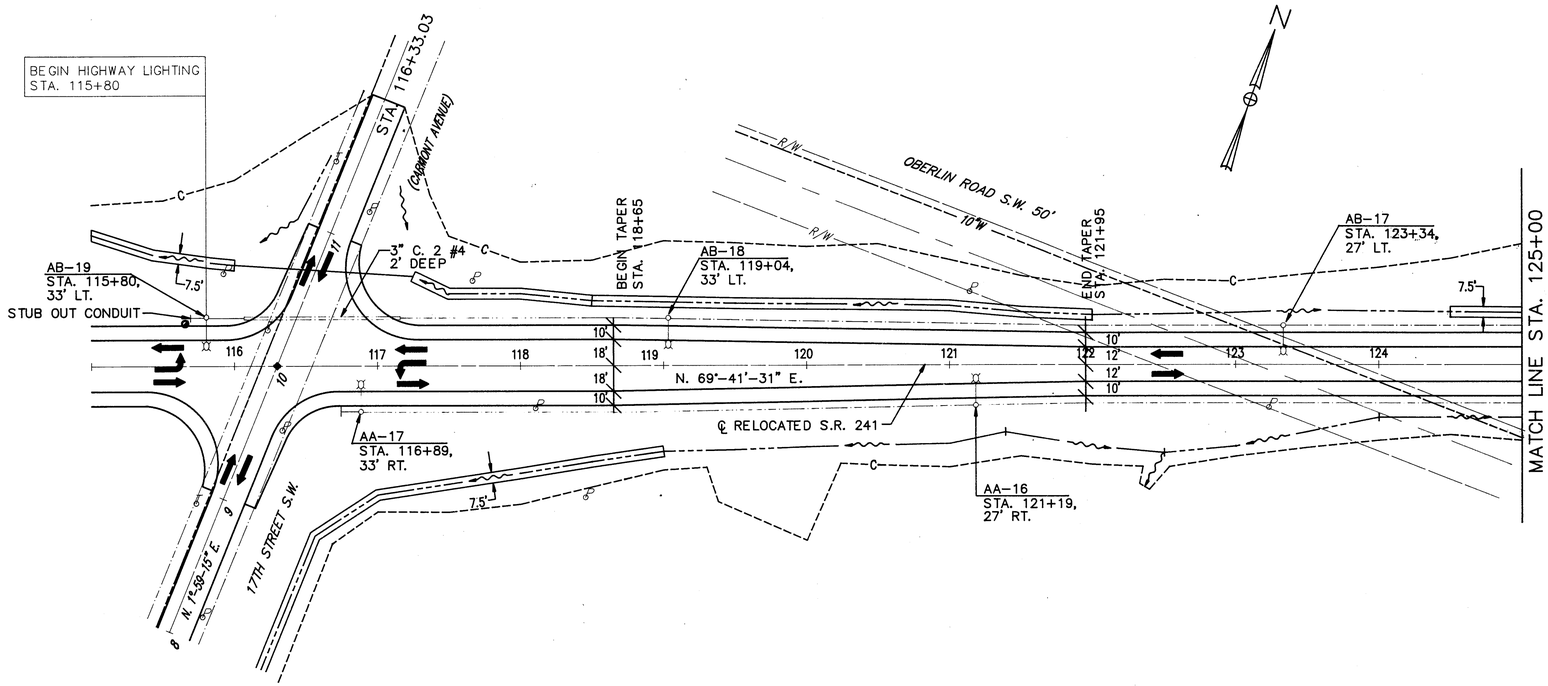
CALC. BY F.L.F DATE 6/28/91	STA-241-4.22	OHIO	261
CHKD. BY C.C.H DATE 6/29/91		FHWA REGION 5	303

LIGHTING PLAN

50 25 0 50 100
SCALE IN FEET

REFERENCES

FOR PLAN & PROFILES SEE SHEET 63.
FOR CROSS SECTIONS SEE SHEETS 135-141.
FOR RIGHT-OF-WAY PLANS SEE SHEET 291.



LIGHTING PLAN LEGEND

- ▲ – PROPOSED CONTROL CENTER
- ○—⟩ – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- — · — – PROPOSED DUCT CABLE (2 #4AWG)
- □ – PROPOSED PULL BOX
- ℘ – UTILITY COMPANY POLE
- = = = – 3" CONDUIT, WITH DUCT CABLE OR DISTRIB. CABLE WHERE SPECIFIED (2#4) 24" BELOW GRADE

STATE ROUTE 241

86903E10

LIGHTING PLAN STA. 115+00 TO STA. 125+00

CALC. BY F.I.F. DATE 6/28/91	STA-241-4.22	OHIO
CHKD. BY C.C.H. DATE 6/29/91		FHWA REGION 5

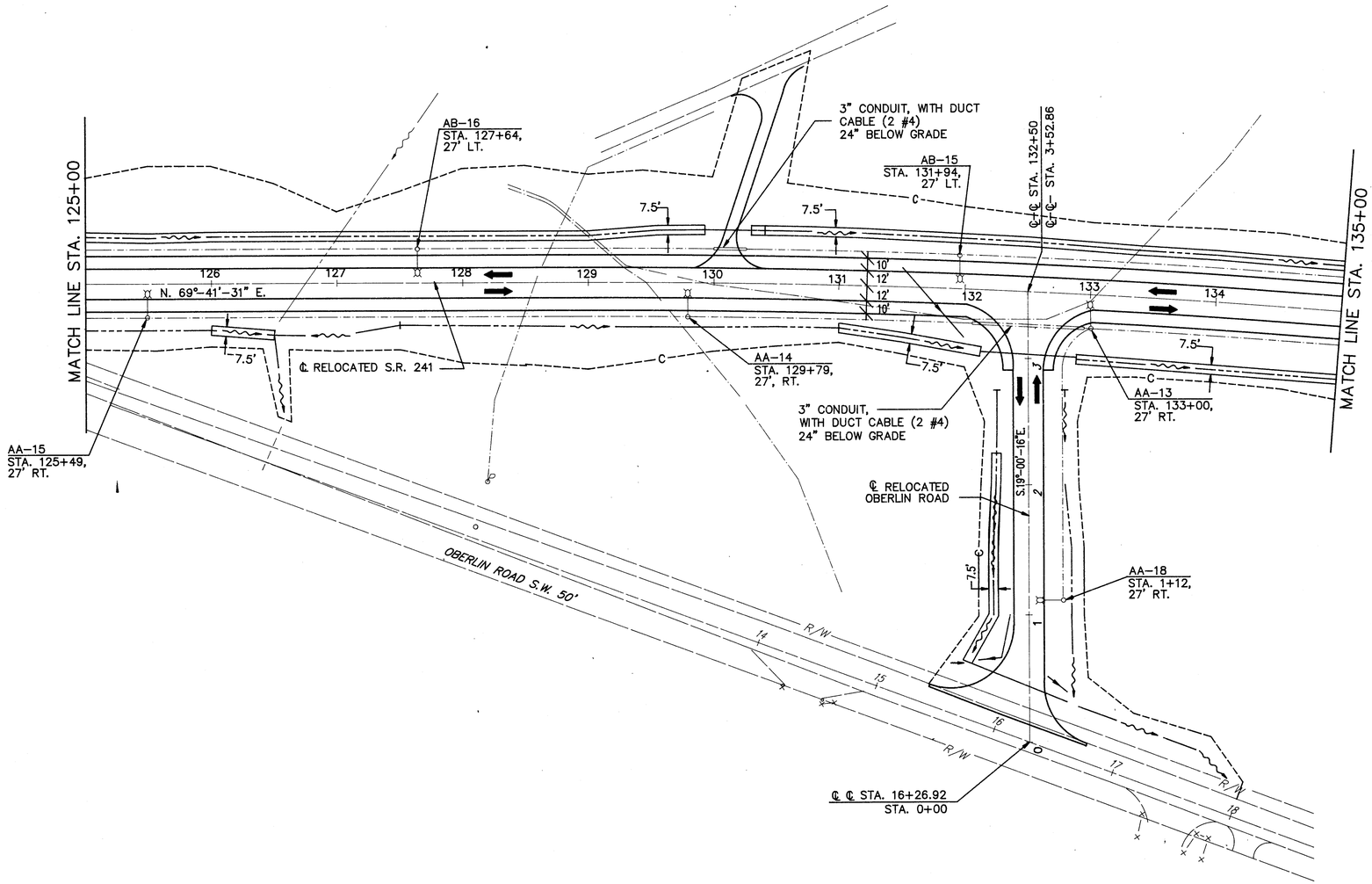
262
303

LIGHTING PLAN

50 25 0 50 100
SCALE IN FEET

REFERENCES

FOR PLAN & PROFILES SEE SHEET 64.
FOR CROSS SECTIONS SEE SHEETS 141-146
FOR RIGHT-OF-WAY PLANS SEE SHEET 292.



LIGHTING PLAN LEGEND

- ▲ – PROPOSED CONTROL CENTER
- ⟜○⟝ – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- ——— – PROPOSED DUCT CABLE (2 #4AWG)
- □ – PROPOSED PULL BOX
- ⊗ – UTILITY COMPANY POLE
- ═:═ – 3" CONDUIT, WITH DUCT CABLE OR DISTRIB. CABLE WHERE SPECIFIED (2#4) 24" BELOW GRADE

86903E11

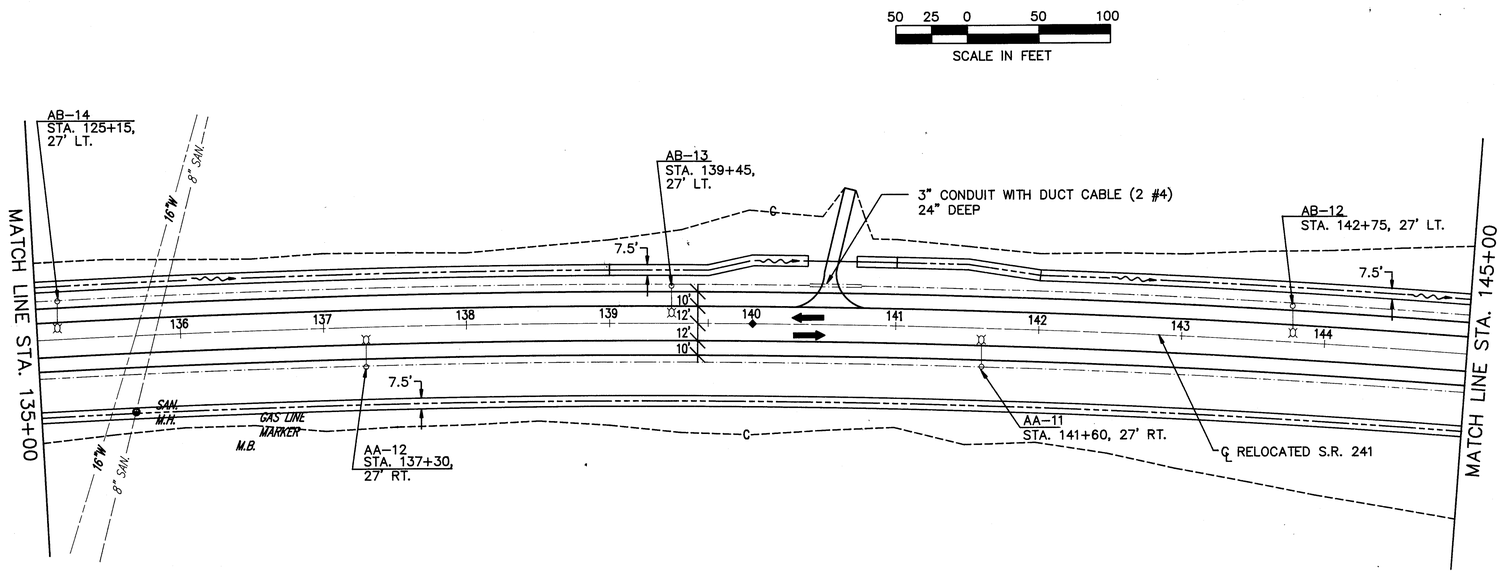
STATE ROUTE 241

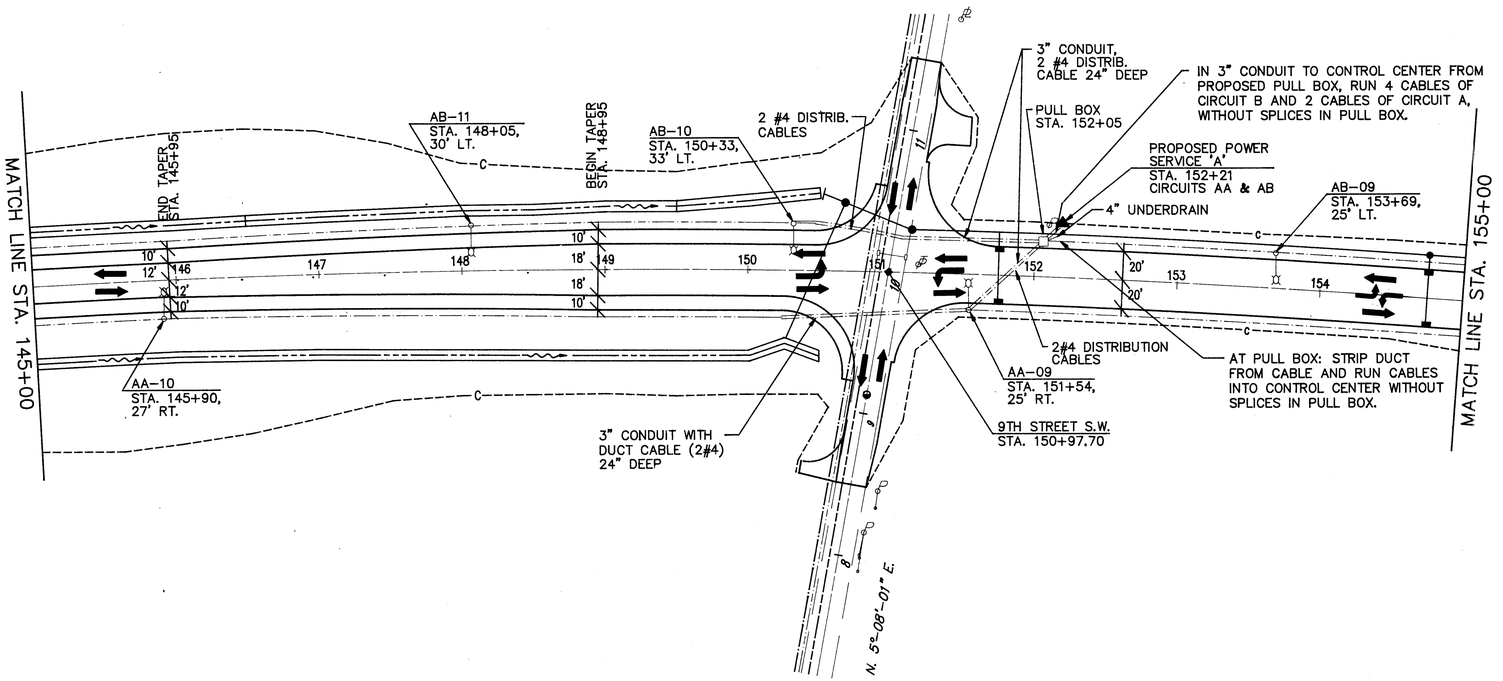
LIGHTING PLAN STA. 125+00 TO STA. 135+00

CALC. BY E.L.F. DATE 6/28/91	STA-241-4.22	OHIO
CHKD. BY C.C.H. DATE 6/29/91		FHWA REGION 5

263
303

LIGHTING PLAN





LIGHTING PLAN LEGEND

- ▲ – PROPOSED CONTROL CENTER
- ○—⌶ – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- — · — – PROPOSED DUCT CABLE (2 #4AWG)
- □ – PROPOSED PULL BOX
- ℘ – UTILITY COMPANY POLE
- ═══ – 3" CONDUIT, WITH DUCT CABLE OR DISTRIB. CABLE WHERE SPECIFIED (2#4) 24" BELOW GRADE

REFERENCES

FOR PLAN & PROFILES SEE SHEETS 65-66.
FOR CROSS SECTIONS SEE SHEETS 146-157.
FOR RIGHT-OF-WAY PLANS SEE SHEETS 293-294.

86903E13

STATE ROUTE 241

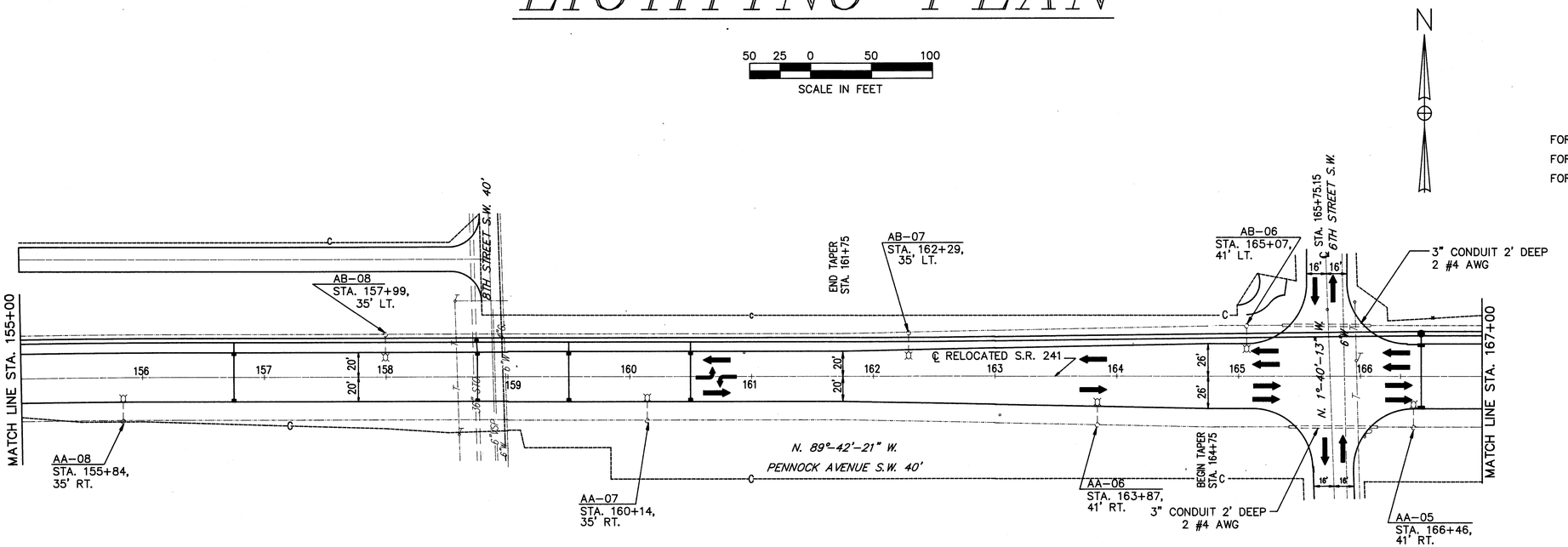
LIGHTING PLAN STA. 135+00 TO STA. 155+00

CALC. BY F.L.F DATE 6/28/91	STA-241-4.22	OHIO
CHKD. BY C.C.H DATE 6/29/91		FHWA REGION 5

264
303

LIGHTING PLAN

50 25 0 50 100
SCALE IN FEET

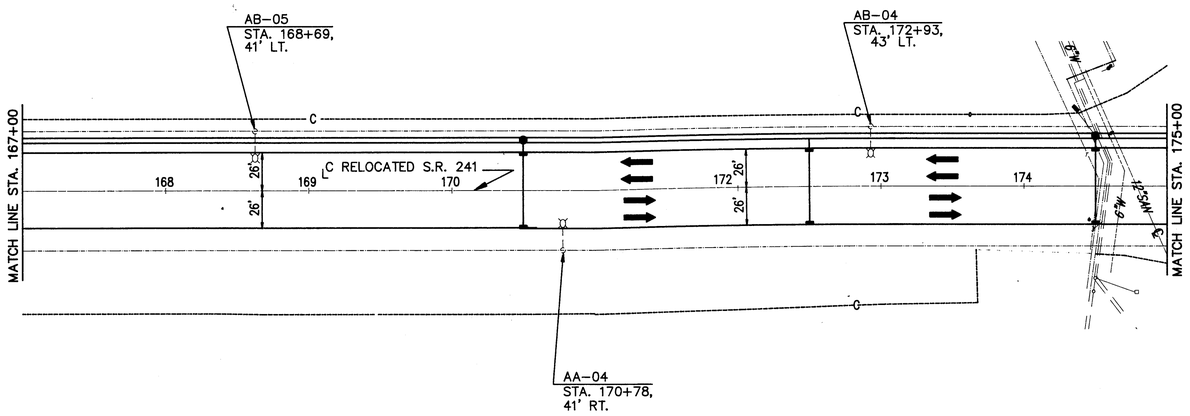


REFERENCES

FOR PLAN & PROFILES SEE SHEETS 67-71.
FOR CROSS SECTIONS SEE SHEETS 157-167.
FOR RIGHT-OF-WAY PLANS SEE SHEETS 295-299.

LIGHTING PLAN LEGEND

- ▲ – PROPOSED CONTROL CENTER
- – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- – PROPOSED DUCT CABLE (2 #4AWG)
- □ – PROPOSED PULL BOX
- – UTILITY COMPANY POLE
- – 3" CONDUIT, WITH DUCT CABLE OR DISTRIB. CABLE WHERE SPECIFIED (2#4) 24" BELOW GRADE



STATE ROUTE 241

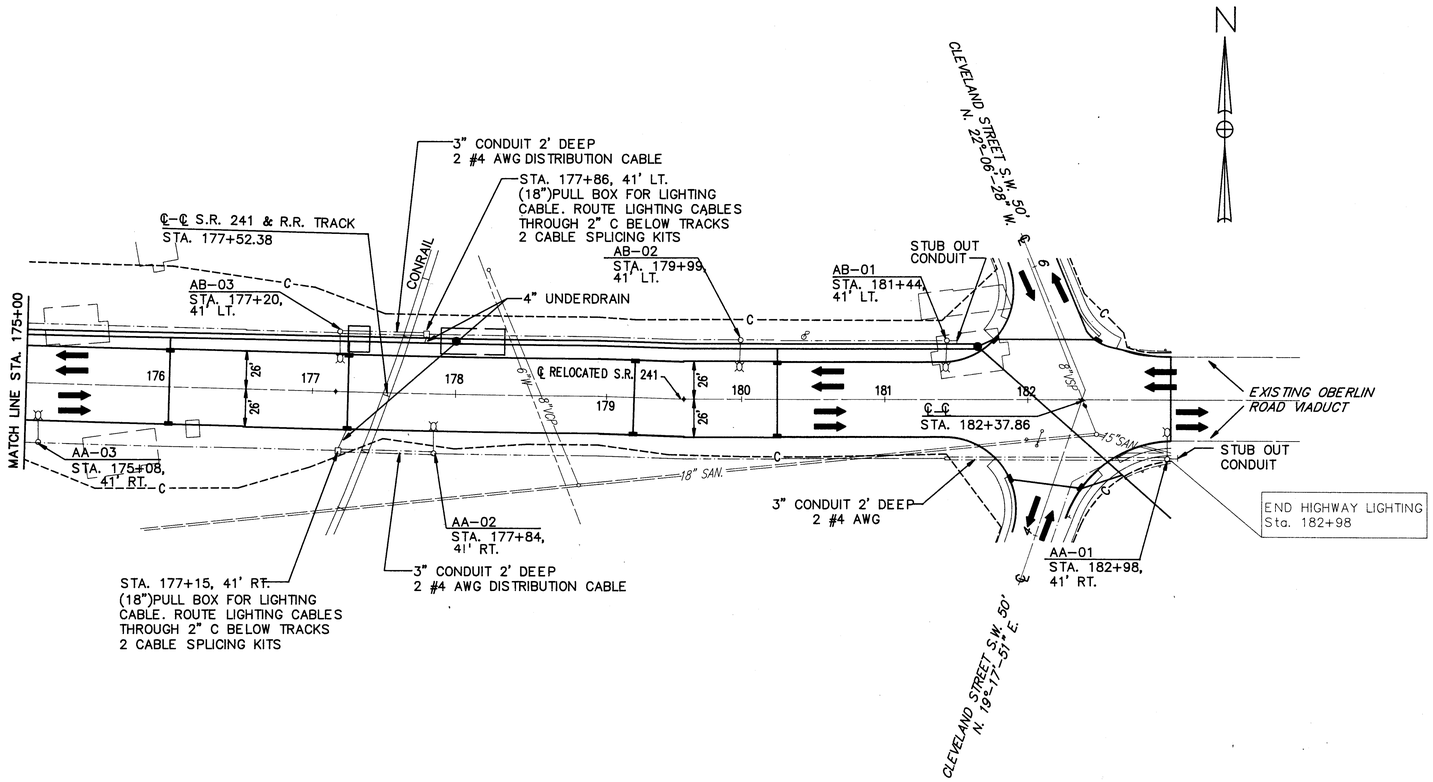
LIGHTING PLAN STA. 155+00 TO 175+00

CALC. BY ELF DATE 6/28/91	STA–241–4.22	OHIO
CHKD. BY CCH DATE 6/29/91		FHWA REGION 5

265/303

LIGHTING PLAN

50 25 0 50 100
SCALE IN FEET



REFERENCES

FOR PLAN & PROFILES SEE SHEETS 73–75.
FOR CROSS SECTIONS SEE SHEETS 167–205.
FOR RIGHT–OF–WAY PLANS SEE SHEETS 300–303.

LIGHTING PLAN LEGEND

- ▲ – PROPOSED CONTROL CENTER
- ○—⌶ – PROPOSED LIGHT POLE WITH 250 WATT HPS LUMINAIRE (SINGLE BRACKET ARM)
- – – – PROPOSED DUCT CABLE (2 #4AWG)
- □ – PROPOSED PULL BOX
- ℘ – UTILITY COMPANY POLE
- ⊏ ═ ⊐ – 3" CONDUIT, WITH DUCT CABLE OR DISTRIB. CABLE WHERE SPECIFIED (2#4) 24" BELOW GRADE

8690JE16

STATE ROUTE 241

LIGHTING PLAN STA. 175+00 TO STA. 183+00

CENTERLINE SURVEY PLAT

S.R. 241

STARK COUNTY

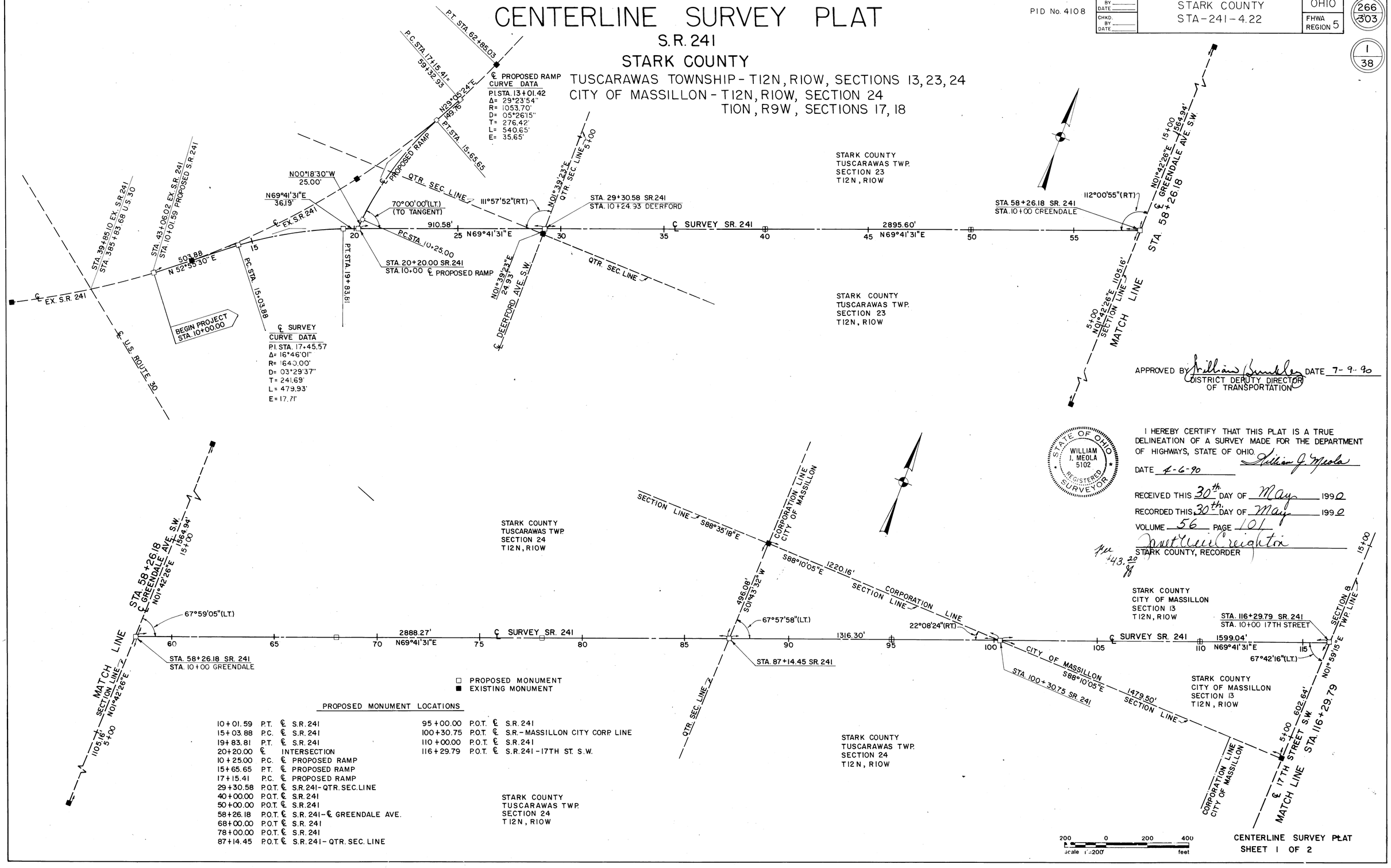
PID No. 4108

CALC. BY ____ DATE ____	STARK COUNTY STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

266 / ~~303~~

1 / 38

TUSCARAWAS TOWNSHIP - T12N, R10W, SECTIONS 13, 23, 24
CITY OF MASSILLON - T12N, R10W, SECTION 24
T10N, R9W, SECTIONS 17, 18



APPROVED BY William Smeltz DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION DATE 7-9-90

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE DEPARTMENT OF HIGHWAYS, STATE OF OHIO.

STATE OF OHIO — WILLIAM J. MEOLA 5102 — REGISTERED SURVEYOR

William J. Meola

DATE 4-6-90

RECEIVED THIS 30th DAY OF May 1990

RECORDED THIS 30th DAY OF May 1990

VOLUME 56 PAGE 101

Janet Weir Creighton
STARK COUNTY, RECORDER

$43.20

□ PROPOSED MONUMENT
■ EXISTING MONUMENT

PROPOSED MONUMENT LOCATIONS

10+01.59	P.T.	℄ S.R. 241
15+03.88	P.C.	℄ S.R. 241
19+83.81	P.T.	℄ S.R. 241
20+20.00	℄	INTERSECTION
10+25.00	P.C.	℄ PROPOSED RAMP
15+65.65	P.T.	℄ PROPOSED RAMP
17+15.41	P.C.	℄ PROPOSED RAMP
29+30.58	P.O.T.	℄ S.R. 241 - QTR. SEC. LINE
40+00.00	P.O.T.	℄ S.R. 241
50+00.00	P.O.T.	℄ S.R. 241
58+26.18	P.O.T.	℄ S.R. 241 - ℄ GREENDALE AVE.
68+00.00	P.O.T.	℄ S.R. 241
78+00.00	P.O.T.	℄ S.R. 241
87+14.45	P.O.T.	℄ S.R. 241 - QTR. SEC. LINE
95+00.00	P.O.T.	℄ S.R. 241
100+30.75	P.O.T.	℄ S.R. - MASSILLON CITY CORP. LINE
110+00.00	P.O.T.	℄ S.R. 241
116+29.79	P.O.T.	℄ S.R. 241 - 17TH ST. S.W.

℄ SURVEY CURVE DATA
P.I. STA. 17+45.57
Δ= 16°46'01"
R= 1640.00'
D= 03°29'37"
T= 241.69'
L= 479.93'
E= 17.71'

CENTERLINE SURVEY PLAT

S.R. 241

STARK COUNTY

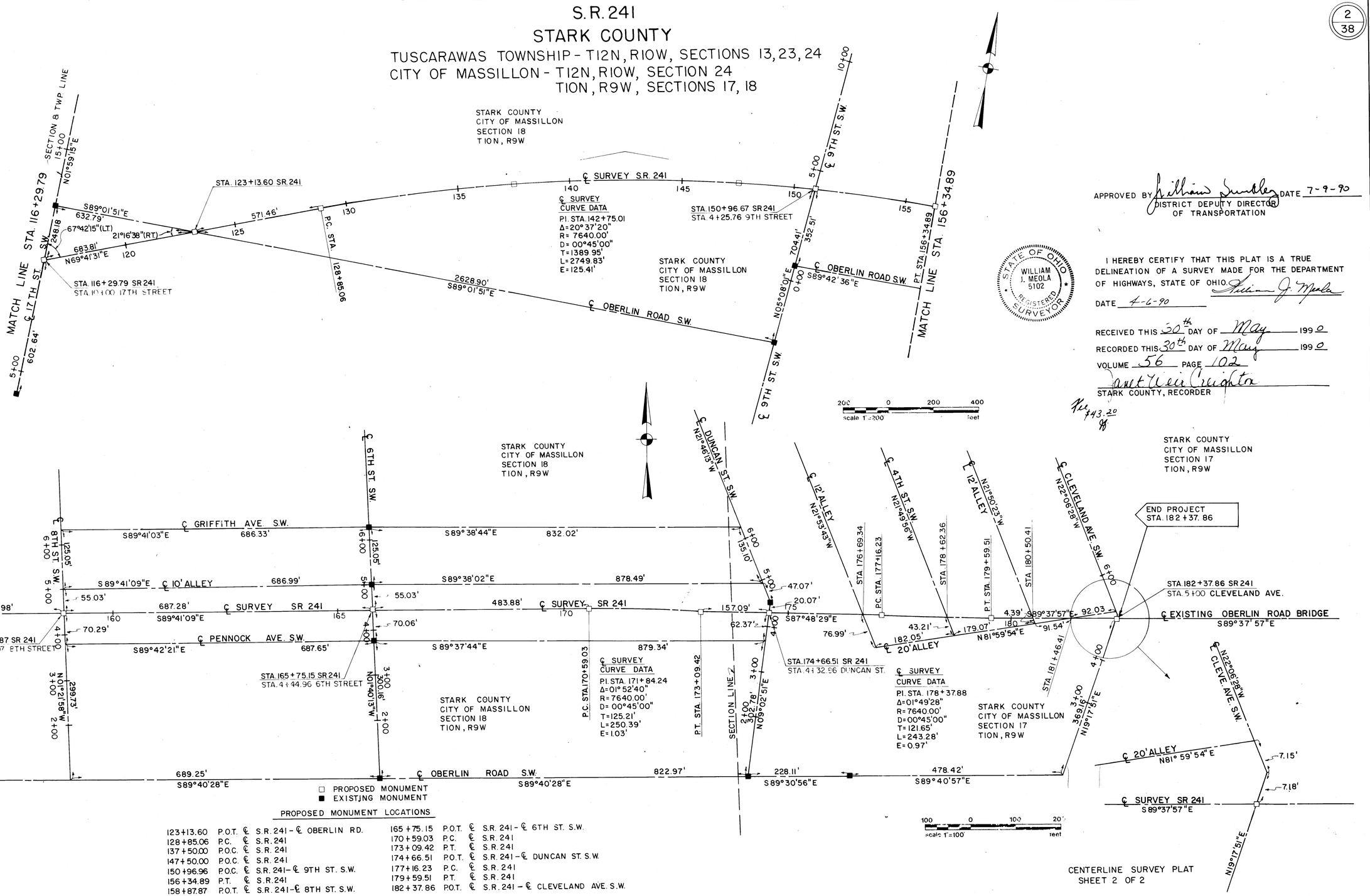
TUSCARAWAS TOWNSHIP - T12N, R10W, SECTIONS 13, 23, 24
CITY OF MASSILLON - T12N, R10W, SECTION 24
T10N, R9W, SECTIONS 17, 18

PID No. 4108

CALC. BY / DATE	STARK COUNTY STA-241-4.22	OHIO
CHKD BY / DATE		FHWA REGION 5

267 / 303

2 / 38



□ PROPOSED MONUMENT
■ EXISTING MONUMENT

PROPOSED MONUMENT LOCATIONS

123+13.60	P.O.T. ℄ S.R. 241 - ℄ OBERLIN RD.	165+75.15	P.O.T. ℄ S.R. 241 - ℄ 6TH ST. S.W.
128+85.06	P.C. ℄ S.R. 241	170+59.03	P.C. ℄ S.R. 241
137+50.00	P.O.C. ℄ S.R. 241	173+09.42	P.T. ℄ S.R. 241
147+50.00	P.O.C. ℄ S.R. 241	174+66.51	P.O.T. ℄ S.R. 241 - ℄ DUNCAN ST. S.W.
150+96.96	P.O.C. ℄ S.R. 241 - ℄ 9TH ST. S.W.	177+16.23	P.C. ℄ S.R. 241
156+34.89	P.T. ℄ S.R. 241	179+59.51	P.T. ℄ S.R. 241
158+87.87	P.O.T. ℄ S.R. 241 - ℄ 8TH ST. S.W.	182+37.86	P.O.T. ℄ S.R. 241 - ℄ CLEVELAND AVE. S.W.

APPROVED BY William Smalley DATE 7-9-90
DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

STATE OF OHIO
WILLIAM J. MEOLA
5102
REGISTERED SURVEYOR

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE DEPARTMENT OF HIGHWAYS, STATE OF OHIO. William J. Meola
DATE 4-6-90

RECEIVED THIS 30th DAY OF May 1990
RECORDED THIS 30th DAY OF May 1990
VOLUME 56 PAGE 102
Janet Weir Creighton
STARK COUNTY, RECORDER
Fee $43.20

CENTERLINE SURVEY PLAT
SHEET 2 OF 2

CALC. BY C.H.B. DATE 5/90	STARK COUNTY STA-241-4.22	OHIO FHWA REGION 5	268/303
CHKD. BY DATE			

R/W Sheet 3/38

PROPERTY MAP

Scale 200 0 200 400 feet

MILLERSBURG RD.

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

BLANKET EASEMENT
TO EAST OHIO GAS CO.
VOL. 3537:176

BLANKET EASE.
TO O.B.T. CO.
VOL. 4204:314

END WORK
STA. 21+50.00

BEGIN R/W ACQUISITION
STA. 11+50.00

BEGIN PROJECT
STA. 11+00.00

EXIST. R/W SECTION 23 — EXIST. R/W SECTION 23

H.H. MYERS ADD.
P.B. 18, PG. 32
LOTS 1-71

44	51	60	67
45	50	61	66
46	49	62	65
47	48	63	64

BELLEVUE AVE. S.W. - 50'
UPLAND AVE. S.W. - 50'

15+00 DEERFORD AVE. S.W. - 30' (T-338)

15+00 N.E. QTR. SEC. 23 (T-346)

58+26.18 MATCH LINE STA.

STA. 58+26.18 S.R. 241 =
STA. 10+00.00 GREENDALE AVE. S.W.

15+00 GREENDALE AVE. S.W. - 40'

POLE LINE EASE. TO OHIO PUBLIC SERV. CO. VOL. 1537:405 & 1415:317

EXIST. R/W — 20 — SL — EX CHANNEL EASEMENT VOL. 3264:512 (4)

PERPETUAL HIGHWAY EASEMENT VOL. 3472:377-380

40 ℄ PROPOSED SR 241 45

R/W 50 — SL — R/W 35 — SL — R/W 30

BLANKET EASE. TO EAST OHIO GAS CO. VOL. 3537:178 (7)

BLANKET EASE. TO O.B.T. CO. VOL. 4204:314 (6)

OIL & GAS LEASE TO BELDEN & BLAKE CORP VOL. 127:689 (5)

QTR. SEC. LINE

EXIST. R/W SECTION LINE

S.E. QTR. SECTION 23

R/W — 15 — PROPOSED RAMP — R/W — 25 — EXIST. R/W PROPOSED — R/W — 20 — S.R. 241 — L/A

STA. 29+30.58 S.R. 241 =
STA. 10+24.93 DEERFORD AVE. S.W.

OIL & GAS WELL

STA. 20+20.00 S.R. 241 =
STA. 10+00.00

50' OHIO EDISON CO. EASE.

BLANKET EASE.
TO O.B.T. CO. 4204:314 (2)

OIL & GAS LEASE
TO BELDEN & BLAKE CORP
VOL. 170:645

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

S.W. QTR. SECTION 23 — S.E. QTR. SECTION 23

TOWERS — (1) — ELEC. TRANS. — 138KV OHIO EDISON CO — 138KV OHIO EDISON CO — TOWERS — TOWERS

OHIO EDISON CO. EASE.

EXIST. R/W — U.S. 30 — L/A — EXIST. R/W — L/A

DEERFORD AVE. — QTR. SEC. LINE — SR 241 — (2) — S.W. QTR. SEC. 23 QTR. SEC. LINE — S.E. QTR. SEC. 23 — U.S. 30 — SEC. LINE — BARR ST.

1. FEICHER
2. WEFLER
3. MACKEY
4. FOWLER
5. CABASSA
6. ROSS
7. NOTCH
8. LIMBACH
9. TABELLION
10. CONSTABLE

UTILITY OWNERS

TYPE	NAME & ADDRESS
GAS	EAST OHIO GAS CO. EAST NINTH AT SUPERIOR, CLEVELAND, OHIO 44114
ELECTRIC	OHIO EDISON CO. 76 S. MAIN ST. AKRON, OHIO 44308
TELEPHONE	OHIO BELL TELEPHONE 100 ERIEVIEW, CLEVELAND, OHIO
CABLE T.V.	MASSILLON CABLE T.V. 814 CABLE CT. N.W., MASSILLON, OHIO 44648
WATER	OHIO WATER SERVICE 123 THIRD ST. S.E, MASSILLON, OHIO 44648
STORM SEWER	MASSILLON CITY ENGINEER 1 JAMES DUNCAN PLAZA, MASSILLON, OHIO 44646
STORM SEWER	STARK COUNTY ENGINEER 5156 SOUTHWAY STREET S.W., CANTON, OHIO 44706
SANITARY SEWER	MASSILLON CITY ENGINEER 1 JAMES DUNCAN PLAZA, MASSILLON, OHIO 44646
SANITARY SEWER	STARK COUNTY SANITARY ENGINEER 1701 MAHONING ROAD N.E. CANTON, OHIO 44705

UTILITY OWNERS

	NAME & ADDRESS
PIPELINE	BELDEN BLAKE OPERATING CO. 7555 FREEDOM AVENUE N.W., NORTH CANTON, OHIO 44720
PIPELINE	EVERFLOW EASTERN INC. P.O. BOX 354, CANFIELD, OHIO 44406
PIPELINE	MILLER OIL & GAS RT. 1, P.O. BOX 181, DUNDEE, OHIO 44624

FUNDS: STATE

PROPERTY MAP SHEET 1 OF 5

REV.	DATE	DESCRIPTION

PROPERTY MAP

CALC. BY C.H.B. DATE 5/90
CHKD. BY ____ DATE ____

STARK COUNTY
STA-241-4.22

OHIO
FHWA REGION 5

269
303

R/W Sheet 4 / 38

Scale 200 0 200 400 feet

STA. 116+29.79 S.R. 241 = STA. 10+00.00 17TH ST. S.W.

MATCH LINE STA. 116+29.79

MATCH LINE STA. 58+26.18

BETHANN

22nd ST. S.W. 50'

OBERLIN ROAD S.W.

12943 12948 12947 12946 12945 12359 12358

OUT LOT 495

50' SAN. SEWER EASE. TO STARK COUNTY 12944 VOL. 3861:504

OIL & GAS LEASE TO BELDEN & BLAKE OIL PRODUCTION VOL. 108:365

POLE LINE EASE. TO OHIO EDISON CO. VOL. 2858:10

17TH ST. SW

STARK COUNTY
CITY OF MASSILLON
SECTION 13
T-12N, R-10W

CITY OF MASSILLON CORPORATION LINE

OUT LOT 499

OUT LOT 498

OUT LOT 497

OUT LOT 496

SECTION LINE

STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W

N.W. QTR. SECTION 24

N.E. QTR. SECTION 24

S.W. QTR. SECTION 13

℄ PROPOSED SR 241

WESTHAVEN AVE SW

VORYS AVE. SW. 50'

MORTON RD. S.W. 50'

WEST ARADO ALLOTMENT
LOTS 1 TO 98
PB.15, PG. 34

13962 13963 13964 13965 13966

30' R/W TO EAST OHIO GAS CO. VOL. 2939:718

8' INGRES EGRESS EASE. O.R. 295:826

GREENDALE AVENUE S.W.

SECTION LINE 15+00

EXIST. R/W

10+00

5+00

BLANKET EASEMENT TO EAST OHIO GAS CO. VOL. 2654:35

OIL & GAS LEASE TO BELDEN & BLAKE VOL. 88:105

OIL & GAS LEASE TO BELDEN & BLAKE OIL PRODUCTION VOL. 108:65

BLANKET EASEMENT TO EAST OHIO GAS CO. VOL. 2654:33

OIL & GAS LEASE TO BELDEN & BLAKE OIL PRODUCTION (VOL. 108:61 & 62) VOL. 118:155

OIL & GAS LEASE TO BELDEN & BLAKE OIL PRODUCTION VOL. 174:411

BLANKET EASEMENT TO EAST OHIO GAS CO. VOL. 2654:588

QTR. SECTION LINE

PIGEON RUN AVE.

GLADDIS STREET S.W. - 40'

S.W. QTR. SECTION 24

S.E. QTR. SECTION 24

STARK COUNTY
TUSCARAWAS TWP
SEC. 24, T-12N, R-10W

CITY OF MASSILLON CORPORATION LINE

SECTION 24 EXIST R/W

TOWNSHIP & SECTION LINE

(11) MAIER
(12) MARSH
(13) HORNBERGER, SUMMERS
(14) FRASE
(15) HUTTON
(16) CHURCH OF THE NAZARENE
(17) HARWIG
(18) GARRETT
(19) RON
(20) RON/GABELE

FUNDS : STATE

PROPERTY MAP SHEET 2 OF 5

REV.	DATE	DESCRIPTION

PROPERTY MAP

CALC. BY C.H.B. DATE 5/90	STARK COUNTY STA-241-4.22	OHIO FHWA REGION 5	270/303
CHKD. BY DATE			

R/W Sheet 5/38

Scale 200 0 200 400 feet

OVERLOOK AVE. S.W. 50'

OBERLIN ROAD S.W.

STARK COUNTY
CITY OF MASSILLON
SECTION 18, T-10N, R-9W

STA. 150+96.67 S.R. 241 =
STA. 4+25.76 9TH ST. S.W.

MATCH LINE STA. 150 + 96.96

9th STREET S.W. - 30'

25' ROADWAY RESERVATION

EXIST. WELL

PT. OUT LOT 288

STA. 123+13.60 S.R. 241 =
STA. 6+32.79 OBERLIN RD. S.W.

EXIST. WELL

℄ PROPOSED SR. 241

OUT LOT 284

OUT LOT 285

17th STREET S.W.

STA. 116 + 29.79

OUT LOT 286

O.L. LINE

BLANKET LEASE TO OHIO PUBLIC SERVICE CO. VOL. 1012: 44

NON DEVEL. OIL GAS LEASE TO BELDEN BLAKE CORP. VOL. 429: 598

OUT LOT 524

50' SAN. SEWER EASE. TO STARK COUNTY VOL. 3861: 501

OUT LOT 525

CARMONT AVE.

13983

13984

OUT LOT 526

OUT LOT 527

SECTION LINE

TOWNSHIP & SECTION LINE

SECTION 24

EXIST. R/W

OUT LOT 287

13600

OUT LOT 510

30' SAN. SEWER EASE. TO STARK COUNTY VOL. 3861: 514

PT. OUT LOT 511

40' SAN. SEWER EASE. TO STARK COUNTY VOL. 3861: 509

13601

POLE LINE EASE TO OHIO EDISON CO. VOL. 3579: 721

OBERLIN ROAD S.W.

PT. OUT LOT 288

PT. OUT LOT 288

PT. OUT LOT 288

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC.
VOL. 622: 524 - CONSOL. IN VOL. 742: 962
VOL. 622: 518 - CONSOL. IN VOL. 742: 962
VOL. 622: 526 - CONSOL. IN VOL. 742: 962
VOL. 622: 530 - CONSOL. IN VOL. 742: 962
VOL. 666: 748 - CONSOL. IN VOL. 742: 962
VOL. 622: 520 - CONSOL. IN VOL. 742: 962
VOL. 622: 528 - CONSOL. IN VOL. 742: 962
VOL. 612: 18 - CONSOL. IN VOL. 742: 962

STARK COUNTY
CITY OF MASSILLON
SECTION 18, T-10N, R-9W

R/W, SL, 135, 130, 125, 120, 140, 145, 150, 15', 0+00, 5+00, 10+00, 15+00, 20+00, 25+00, 30+00

(21) BAKER - NO TAKE
(22) STRANGER - NO TAKE
(23) RIESE
(24) EGGLESTON
(25) INDORF, CANTELLI
(26) FOODWAYS NATIONAL INC.
(27) MASSILLON BAPTIST TEMPLE INC.
(28) GUMP
(29) OJIM INC.
(30) GILTZ
(31) ROTHROCK, KOHLER
(32) GARCIA, NICKOLOFF
(33) ALEXANDER
(34) GENSAMER
(35) JOKSIMOVIC
(36) WEISGARBER
(37) POLEN
(38) LOCAL No. 1124 UNITED STEEL WORKERS OF AMERICA

FUNDS: STATE

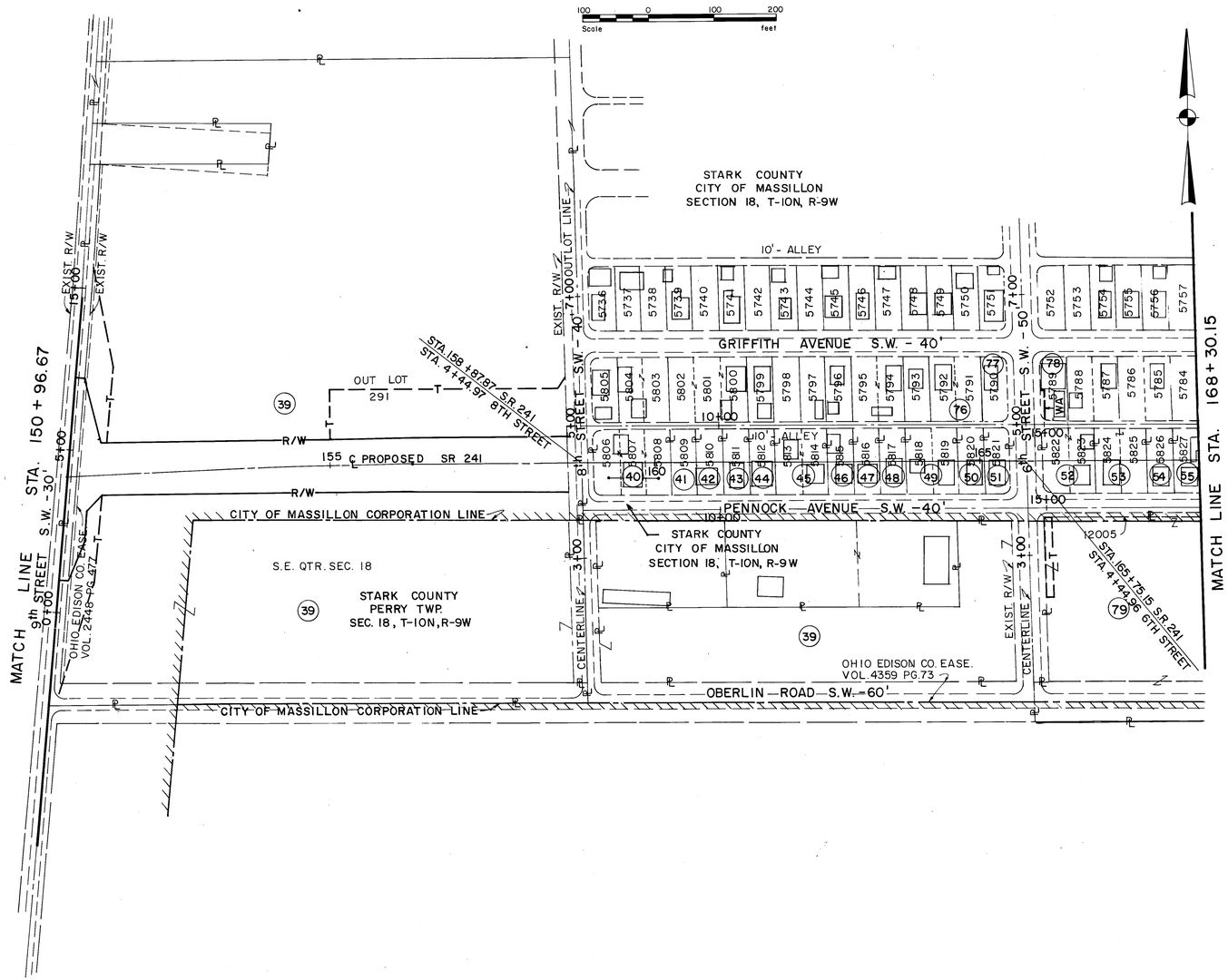
PROPERTY MAP SHEET 3 OF 5

REV.	DATE	DESCRIPTION

CALC. BY C.H.B. DATE 5/90	STARK COUNTY STA-241-4.22	OHIO FHWA REGION 5	271/303
CHKD. BY ____ DATE ____			

R/W Sheet 6/38

PROPERTY MAP



(39) BONKS PROPERTIES INC.
(40) McLAUGHLIN
(41) GUGOV
(42) EDEN HOMES INC.
(43) GRUNDER
(44) KELLER
(45) GRUNDER
(46) CALHOUN
(47) CULBERTSON
(48) NEISWONGER
(49) GALOB
(50) SHULOK
(51) LYNCH
(52) BROWN
(53) MOORE
(54) CROFT
(55) DAVIS
(76) DEL VECCHIO - NO TAKE
(77) SMARDGEFF - NO TAKE
(78) BOWE
(79) BONKS PROPERTIES INC.

FUNDS : STATE

PROPERTY MAP SHEET 4 OF 5

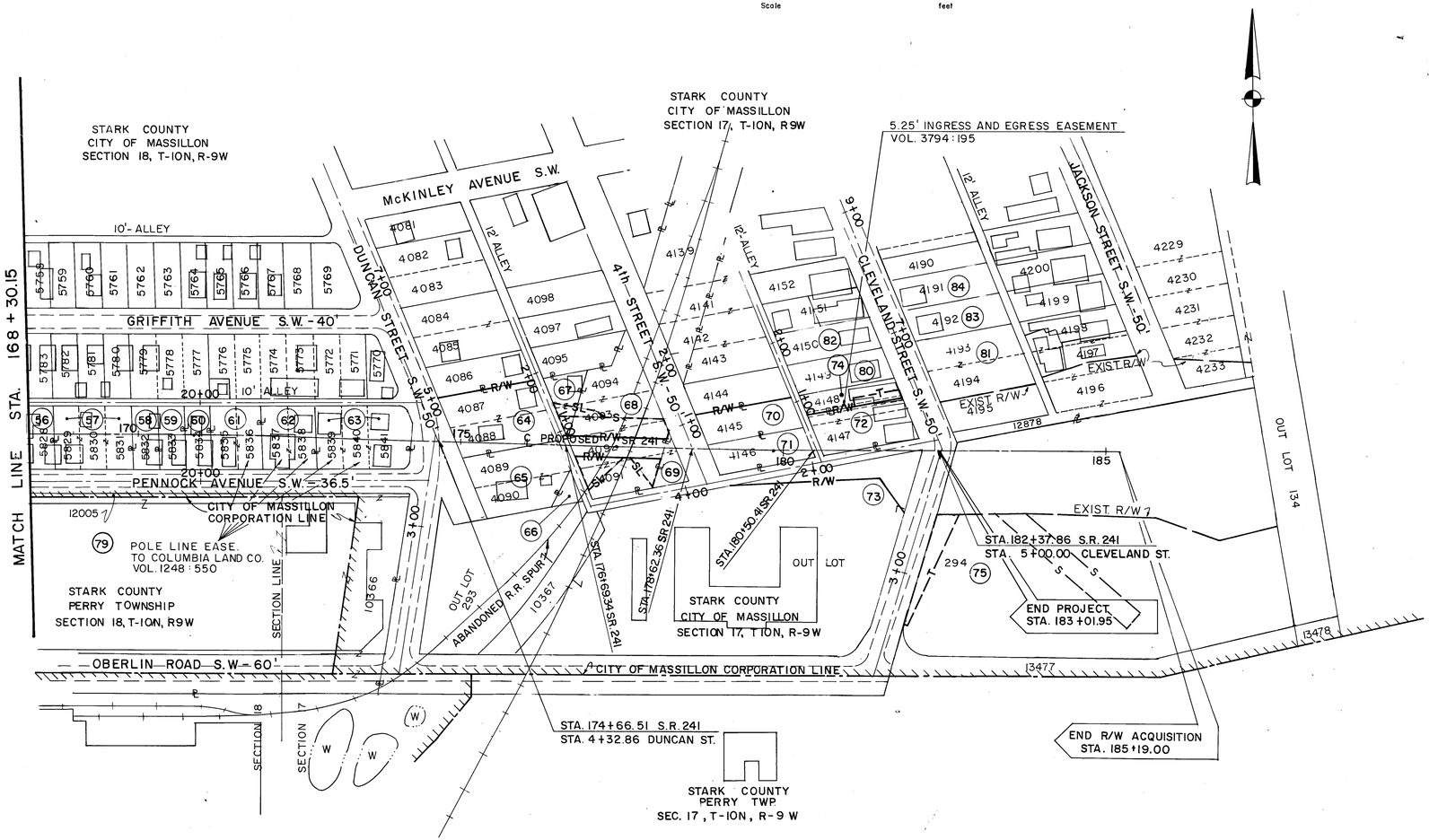
REV.	DATE	DESCRIPTION

CALC. BY C.H.B. DATE 5/90	STARK COUNTY STA-241-4.22	OHIO FHWA REGION 5	272/303
CHKD. BY DATE			

R/W Sheet 7/38

PROPERTY MAP

Scale 100 0 100 200 feet



56	DOTSON
57	ODNOOR
58	SPICOCCHI
59	PARIS
60	DIMITROFF
61	BROWN
62	DAVIS
63	TSOCHEFF, MAYFIELD
64	JOHN
65	BOMBA
66	NATIONAL FEEDSCREW & MACHINING IND. INC.
67	JOHN
68	CONRAIL
69	JOHN
70	BARNES
71	BANK OF MT. EATON
72	ORPHAN
73	REPUBLIC ENGINEERED STEELS INC.
74	SCOTT, HEWITT
75	REPUBLIC ENGINEERED STEELS INC.
79	BONKS PROPERTIES, INC.
80	HOUSE OF GOD, TRUSTEES INC.-~~NO TAKE~~
81	BERBARI-NO TAKE
82	STACKHOUSE-NO TAKE
83	DANZY-NO TAKE
84	CUZA-NO TAKE

FUNDS: STATE

PROPERTY MAP SHEET 5 OF 5

REV.	DATE	DESCRIPTION

TOTAL NUMBER OF ___
11 OWNERSHIPS
1 TOTAL TAKES
4 OWNERSHIPS WITH STRUCTURES INVOLVED
1 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90
CHKD. BY ____ DATE ____

STA-241-4.22

OHIO
FHWA REGION 5

273/303
8/38

FEDERAL PROJECT | STATE PROJECT

PARCEL	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1- WD	MICHAEL C. FEICHTER AND BENEDETTE A. FEICHTER	14 & 15	4302	443	4.0915 Ac.		0.322 Ac.	———	0.322 Ac.		———	3.7695 Ac.				
2- WD	WARREN H. WEFLER	15, 16, 17	2578	320	102.650 Ac	1.760 Ac.	8.543 Ac.	1.594 Ac.	6.949 Ac.		0.520 Ac.	93.274 Ac.				
2- X							0.087 Ac.		0.087 Ac.					CONSTRUCT CULVERT OUTLET CHANNEL		
2- SL							0.060 Ac.	———	0.060 Ac.					CONSTRUCT SLOPE		
2- T							0.837 Ac.	———	0.837 Ac.					RELOCATE DRIVE		
3- WD	JAMES A. MACKEY AND VICKY M. MACKEY	16, 17	O.R. 70	460	3.260 Ac.	0.036 Ac.	3.307 Ac.	0.036 Ac.	3.271 Ac.	YES	0	0		AREA BY FIELD SURVEY, TOTAL TAKE		
4- WD	VERNON G. FOWLER AND PHYLLIS A. FOWLER	16, 17	O.R 362	76	6.225 Ac.	0.200 Ac.	0.024 Ac.	0.011 Ac.	0.013 Ac.		5.895 Ac.	———				
4- SL							0.010 Ac.	0.004 Ac.	0.006 Ac.					CONSTRUCT SLOPE		
4- SL-1							0.111 Ac.	———	0.111 Ac.					CONSTRUCT SLOPE		
5- WD	OSCAR CABASSA	17, 18	2975	724	9.72 Ac.	0.199 Ac.	3.162 Ac.	0.047 Ac.	3.115 Ac.	YES	2.370 Ac.	2.488 Ac.				
5- T							0.057 Ac	———	0.057 Ac.					REMOVE STRUCTURE		
5- SL							0.691 Ac.	———	0.691 Ac.					CONSTRUCT SLOPE		
5- SL-1							0.863 Ac.	0.006 Ac.	0.857 Ac.					CONSTRUCT SLOPE		
6- WD	RANDALL P. ROSS AND VIRGINIA A. ROSS	18, 19	O.R 349	221-223	11.781 Ac	———	1.541 Ac.	———	1.541 Ac.		4.149 Ac.	4.962 Ac.				
6- SL							0.443 Ac.	———	0.443 Ac.					CONSTRUCT SLOPE		
6- SL-1							0.686 Ac.	———	0.686 Ac.					CONSTRUCT SLOPE		
6- T							0.099 Ac.		0.099 Ac.					DRIVE RELOCATION		
7- WD	JOSEPH W. NOTCH AND JANE K. NOTCH	19	O.R. 346	510	11.593 Ac.	———	1.479 Ac.	———	1.479 Ac.	YES	0.496 Ac.	8.441 Ac.		MOBILE HOME TO BE REMOVED, REMOVE SEPTIC SYSTEM		
7- SL							0.902 Ac.	———	0.902 Ac.							
7- SL-1							0.275 Ac.	———	0.275 Ac.							
8- WD	TERRENCE J. LIMBACH, DAVID F. LIMBACH, JEFFREY	19	3411	111	25.39 Ac.	0.126 Ac.	0.771 Ac.	———	0.771 Ac.	P	24.306 Ac.	———				
8- SL	L. LIMBACH & MARK S. LIMBACH		O.R. 304	154			0.230 Ac.	———	0.230 Ac.					CONSTRUCT SLOPE		
			O.R. 649	208												
9- WD	GERALD J. TABELLION AND MARY L. TABELLION	19,20	2467	383	4.00 Ac.	0.192 Ac.	0.633 Ac.	0.015 Ac.	0.618 Ac.	YES	———	2.969 Ac.				
9- SL							0.221 Ac.	———	0.221 Ac.					CONSTRUCT SLOPE		
10- WD	KENNETH D. CONSTABLE AND DELIA K. CONSTABLE	19,20	O.R. 861	264	4.00 Ac.	0.188 Ac.	0.875 Ac.	0.116 Ac.	0.759 Ac.		3.053 Ac.	———				
11- WD	AUDERA I. MAIER	20, 21	O.R. 295 1216	826 199	56.23 Ac.	1.024 Ac.	4.140 Ac.	0.130 Ac.	4.010 Ac.		21.229 Ac.	29.030 Ac.				
11- SL							0.599 Ac.	———	0.599 Ac.					CONSTRUCT SLOPE		
11- SL-1							0.338 Ac.	———	0.338 Ac.					CONSTRUCT SLOPE		
11- T							0.071 Ac.	———	0.071 Ac.					TEMPORARY ROADWAY		
11- T-1							0.150 Ac.	———	0.150 Ac.					TEMPORARY ROADWAY		

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

TOTAL NUMBER OF ___
9 OWNERSHIPS
0 TOTAL TAKES
0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90
CHKD. BY ___ DATE ___
FEDERAL PROJECT
STATE PROJECT
STA-241-4.22
OHIO
FHWA REGION 5
274 / 303
9 / 38

PARCEL	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
12- WD	RONALD E. MARSH AND GLORIA J. MARSH	21, 22	3580	447	39.991 Ac.	———	2.211 Ac.	———	2.211 Ac.		14.576 Ac.	22.483 Ac.				
12- SL							0.438 Ac.	———	0.438 Ac.					CONSTRUCT SLOPE		
12- SL-1							0.283 Ac.	———	0.283 Ac.					CONSTRUCT SLOPE		
13- WD	DONALD L. HORNBERGER AND VELMA F. SUMMERS	22, 23	O.R. 241	20	44.84 Ac	0.130 Ac.	1.523 Ac.	———	1.523 Ac.		6.482 Ac.	35.892 Ac.				
13- SL							0.569Ac.	———	0.569Ac.					CONSTRUCT SLOPE		
13- SL-1							0.244 Ac.	———	0.244 Ac.					CONSTRUCT SLOPE		
14- WD	WILLIAM E. FRASE AND BEVERLY L. FRASE	23, 24	4302	495	29.40 Ac.	0.256 Ac.	4.704 Ac.	———	4.704 Ac.		4.479 Ac.	19.422 Ac.				
14- SL							0.352 Ac.	———	0.352 Ac.					CONSTRUCT SLOPE		
14- SL-1							0.187 Ac.	———	0.187 Ac.					CONSTRUCT SLOPE		
15- WD	LINDA J. HUTTON	24	O.R. 753	962	132,292 S.F.	———	1,662 S.F.	———	1,662 S.F.		———	130,630 S.F.				
16- WD	GENERAL BOARD CHURCH OF NAZARENE TRUSTEE OF	24, 25	O.R. 660	269	1,405,333 S.F	———	85,092 S.F.	———	85,092 S.F.		1,304,651 S.F	15,590 S.F				
16- X	RALPH L. & RUTH C. DENNING UNITRUST Nº 5037						15,183 S.F.	———	15,183 S.F.					RECONSTRUCT CULVERT OUTLET CHANNEL		
17- WD	DENNIS D. HARWIG SR. AND MARY ANN HARWIG	25	3955	216	362,419 S.F.	1,742 S.F.	87,703 S.F.	———	87,703 S.F.		81,177 S.F.	181,133 S.F.				
17- SL							6,294 S.F.	———	6,294 S.F.					CONSTRUCT SLOPE		
17- SL-1							4,370 S.F.	———	4,370 S.F.					CONSTRUCT SLOPE		
17- T							988 S.F.	———	988 S.F.					DRIVE RELOCATION		
18- WD	MELVIN L. GARRETT AND MARY M. GARRETT	25, 26	2801	105	43,560 S.F.	2,744 S.F.	1,909 S.F.	1,409 S.F.	500 S.F.		40,316 S.F.	———				
18- T							213 S.F.	———	213 S.F.					RECONSTRUCT CONCRETE DRIVE		
19- WD	SAMUEL RON	25, 26	3591	40	379,277 S.F.	11,435 S.F.	109,549 S.F.	11,430 S.F.	98,119 S.F.		34,574 S.F.	230,946 S.F.				
19- SL							4,203 S.F.	———	4,203 S.F.					CONSTRUCT SLOPE		
19- X							2,303 S.F.	———	2,303 S.F.					CONSTRUCT SLOPE		
20- WD	SAMUEL RON, PATRICIA A. GABELE	26	3591 ~~2998~~	40 ~~147~~	33,585 S.F.	———	6,990 S.F.	———	6,990 S.F.		23,855 S.F.	———				
20- SL							2,740 S.F.	———	2,740 S.F.					CONSTRUCT SLOPE		
21	JAMES A. BAKER AND CAROL J. BAKER		4208	157	20,900 S.F.		NO TAKE	———	NO TAKE							
22	JOHN K. STRANGER		O.R. 631	877	22,781 S.F.		NO TAKE	———	NO TAKE							

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

TOTAL NUMBER OF ___
25 OWNERSHIPS
22 TOTAL TAKES
22 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90
CHKD. BY DATE

STA-241-4.22

OHIO
FHWA REGION 5

276 / 303
11 / 38

FEDERAL PROJECT | STATE PROJECT

PARCEL	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
36-WD	RONALD L. WEISGARBER AND JO ANN WEISGARBER	29	O.R.203	856	1.260 Ac.	0.034 Ac.	1.255 Ac.	0.034 Ac.	1.221 Ac.	YES	0	0		TOTAL TAKE		
37-WD	SARAH R. POLEN	29	O.R.774	749	1.250 Ac.	0.034 Ac.	1.255 Ac.	0.034 Ac.	1.221 Ac.	YES	0	0		GROSS TAKE AREA BY FIELD SURVEY TOTAL TAKE		
			O.R.174	226												
38-WD	LOCAL Nº 1124, UNITED STEEL WORKERS OF AMERICA	29	3515	330	108,900 S.F.	3,006 S.F.	1,365 S.F.	787 S.F.	578 S.F.		105,316 S.F.	———				
39-WD	BONKS PROPERTIES, INC.	29 & 30	O.R. 499	763	1,309,849 S.F.	110,904 S.F.	73,091 S.F.	6,458 S.F.	66,633 S.F.		538,627 S.F.	593,685 S.F.				
39-T							5,739 S.F.	———	5,739 S.F.					REGRADE GRAVEL DRIVE		
39-T-1							27,217 S.F.	———	27,217 S.F.					TEMPORARY ROAD & RECONSTRUCT EXISTING DRIVE		
39-T-2							6,945 S.F.		6,945 S.F.					TEMPORARY ROAD		
40-WD	THERESA ROSE Mc LAUGHLIN	31	3862	327	11,873.8 S.F.	———	11,873.8 S.F.	———	11,873.8 S.F.	YES	0	0		TOTAL TAKE		
41-WD	ANNA M. GUGOV, AKA ANNA K.GUGOV, AKA ANNA M. GUGOFF	31	4217	215	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.		0	0		TOTAL TAKE		
42-WD	EDEN HOMES, INC.	31	O.R. 82	195	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F	YES	0	0		TOTAL TAKE		
43-WD	JOHN U. GRUNDER AND MILDRED M. GRUNDER	31	3863	661	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F	YES	0	0		TOTAL TAKE		
44-WD	CLIFFORD L. KELLER, JR AND DIANNE M. KELLER	31	4302	574	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
45-WD	JOHN U. GRUNDER AND MILDRED M. GRUNDER	31	O.R. 36	510	8,000 S.F.	———	8,000 S.F.	———	8,000 S.F.	YES	0	0		TOTAL TAKE		
46-WD	CLARENCE O. CALHOUN AND JUANITA I. CALHOUN	31 & 32	2400	71	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
47-WD	MARGARET A. CULBERTSON	32	O.R.685	661	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
48-WD	ALICE I. NEISWONGER	32	2310	188	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F	YES	0	0		TOTAL TAKE		
49-WD	ROSE GALOB, MATHEW GALOB JR. AKA MAT GALOB JR.	32	3015	581	8,000 S.F.	———	8,000 S.F.	———	8,000 S.F	YES	0	0		TOTAL TAKE		
50-WD	JOHN J. SHULOK AND THOMAS A. SHULOK	32	3952	110	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
51-WD	GERALD W. LYNCH	32	O.R.299	538	3,873.8 S.F.	———	3,873.8 S.F.	———	3,873.8 S.F.	YES	0	0		TOTAL TAKE		
52-WD	GEORGE W. BROWN AND DIANA M. BROWN	32	O.R 350	26 *	7,773.8 S.F.	———	7,773.8 S.F.	———	7,773.8 S.F.	YES	0	0		TOTAL TAKE		
			O.R. 344	299												
53-WD	JAMES E. MOORE AND NANCY D. MOORE	32 & 33	O.R. 311	671	8,000 S.F.	———	8,000 S.F.	———	8,000 S.F	YES	0	0		TOTAL TAKE		
54-WD	FREDERICK D. CROFT	33	O.R. 140	177	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
55-WD	PATRICIA A. DAVIS	33	O.R. 736	17	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F	YES	0	0		TOTAL TAKE		
56-WD	AUDRA P. DOTSON	33	O.R. 724	176	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
57-WD	CHARLES ODNOOR AND MARY ODNOOR	33	3447	60	12,000 S.F.	———	12,000 S.F.	———	12,000 S.F.	YES	0	0		TOTAL TAKE		
58-WD	SAMUEL R. SPICOCCHI AND BONNIE L. SPICOCCHI	33	3832	747	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		
59-WD	EARNEST T. PARIS	33	4085	513	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F	YES	0	0		TOTAL TAKE		
60-WD	HELEN DIMITROFF	33 & 34	3751	127	4,000 S.F.	———	4,000 S.F.	———	4,000 S.F.	YES	0	0		TOTAL TAKE		

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

TOTAL NUMBER OF ___
17 OWNERSHIPS
10 TOTAL TAKES
6 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90
CHKD. BY ___ DATE ___

STA-241-4.22

OHIO | FHWA REGION 5 | 277/303 | 12/38

FEDERAL PROJECT | STATE PROJECT

PARCEL	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
61-WD	TERRY BROWN	34	3747	245	8,000 S.F	———	8,000 S.F	———	8,000 S.F.	YES	0	0		TOTAL TAKE		
62-WD	GARY W. DAVIS AND DIANA M. DAVIS	34	4211	153	8,000 S.F.	———	8,000 S.F.	———	8,000 S.F.	YES	0	0		TOTAL TAKE		
63-WD	GEORGE E. TSOCHEFF, CAMELLA MAYFIELD AND JOHN TSOCHEFF	34	3677	769	15,082 S.F.	———	15,082 S.F.	———	15,082 S.F.	YES	0	0		TOTAL TAKE		
64-WD	VICTOR L. JOHN AND BONNIE S. JOHN	34 & 35	O.R. 758	652	14,410 S.F.	———	14,410 S.F.	———	14,410 S.F.	YES	0	0		TOTAL TAKE		
65-WD	LEONARD BOMBA AND DOROTHY BOMBA	35	3711	317	13,229 S.F.	———	13,229 S.F.	———	13,229 S.F.	YES	0	0		TOTAL TAKE		
66-WD	NATIONAL FEEDSCREW & MACHINING INDUSTRIES INC	35	O.R.304	70	1,203 S.F.	———	1,203 S.F.	———	1,203 S.F.		0	0		TOTAL TAKE		
67-S	VICTOR L. JOHN AND BONNIE S. JOHN	35	O.R. 758	652	3,403 S.F.	———	259 S.F.	———	259 S.F.		2,446 S.F.	———				
67-SL						———	957 S.F.	———	957 S.F.					CONSTRUCT SLOPE, OVERLAPS SEWER EASEMENT 259 S.F.		
68	CONSOLIDATED RAILROAD CO.	35	1075	97	24,635 S.F.	———	7,533 S.F.	———	7,533 S.F.		13,981 S.F.	1,311 S.F.				
68-S						———	4,461 S.F.	———	4,461 S.F.							
68-SL						———	2,975 S.F.	———	2,975 S.F.					CONSTRUCT SLOPE, OVERLAPS SEWER EASEMENT 2,236 S.F.		
68-SL-1						———	685 S.F.	———	685 S.F.					CONSTRUCT SLOPE		
68-SL-2						———	386 S.F.	———	386 S.F.					CONSTRUCT SLOPE		
69-WD	VICTOR L. JOHN AND BONNIE S. JOHN	35	O.R. 758	652	2,135 S.F.	———	2,135 S.F.	———	2,135 S.F.		0	0		TOTAL TAKE		
70-WD	RUBY M. BARNES	35 & 36	2869	30	7,500 S.F.	———	7,500 S.F.	———	7,500 S.F.		0	0		TOTAL TAKE		
71-WD	THE BANK OF MT. EATON	35 & 36	2760	690	7,500 S.F.	———	7,500 S.F.	———	7,500 S.F.		0	0		TOTAL TAKE		
72-WD	HARRY N. ORPHAN	36	3794	193-196	10,236 S.F.	———	10,236 S.F.	———	10,236 S.F.	YES	0	0		TOTAL TAKE		
73-WD	REPUBLIC ENGINEERED STEELS, INC.	36	O.R. 880	661	49,658 S.F.	———	7,088 S.F.	———	7,088 S.F.		———	42,570 S.F.				
74-T	DESSIE SCOTT, AND AGNES HEWITT	36	2132 3781	438 183	4,538 S.F.	———	947 S.F.	———	947 S.F.		4,538 S.F.	———		DEMOLITION OF ADJACENT STRUCTURE		
75-T	REPUBLIC ENGINEERED STEELS, INC.	36	O.R. 880	661	135,254 S.F.	———	1,763 S.F.	———	1,763 S.F.		———	124,944 S.F.		RECONSTRUCT CONCRETE SIDEWALK		
75-S						———	10,310 S.F.	———	10,310 S.F.							
76	NANCY L. DEL VECCHIO	32	O.R. 158	359	8,000 S.F.	———	NO TAKE		NO TAKE							
77	CHRIST SMARDGEFF	32	2798	478	3,873.8 S.F.	———	NO. TAKE	———	NO TAKE							
78-WA	YVONNE BOWE	32	O.R 62	151	3,873.8 S.F.	———	162 S.F.	———	162 S.F.		3,873.8 S.F.	———		REPLACE CONCRETE DRIVE		
79-T	BONKS PROPERTIES, INC.	32	O.R. 499	763	1,309,849 S.F.	———	1,466 S.F.	———	1,466 S.F.					REMOVE, REPLACE CURB & GUTTER AND REGRADE		

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

30958

TOTAL NUMBER OF ___
0 OWNERSHIPS
0 TOTAL TAKES
0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

SUMMARY OF ADDITIONAL RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC BY C.H.B. DATE 5/90
CHKD. BY ___ DATE ___
FEDERAL PROJECT

STA-241-4.22

STATE PROJECT

OHIO
FHWA REGION 5

278
303

13
38

PARCEL	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
80-T	TRUSTEES OF THE CHURCH OF GOD	36	2361	422	7,500 S.F.	———	NO TAKE	———	NO TAKE							
81-T	THOMAS H. BERBARI, JOHN BERBARI, GEORGE BERBARI, ANGELINE RASHID, JULIET HABIB, JEANNETTE ELUM, ROSEMARIE GEORGE, ADELE MOORE & YVONNE JESSER	36	O.R. 398	277	15,000 S.F.	———	NO TAKE	———	NO TAKE							
82-T	BESSIE I. STACKHOUSE	36	O.R. 295	698	7,500 S.F.	———	NO TAKE	———	NO TAKE							
83-T	LUELLA DANZY	36	3833 4295	678 615	7,500 S.F.	———	NO TAKE	———	NO TAKE							
84-T	ANNA CUZA	36	2488	572	7,500 S.F.	———	NO TAKE	———	NO TAKE							

REV.	DATE	DESCRIPTION

R/W SUMMARY SHEET

PID No. 4108
STATE JOB No. 041630

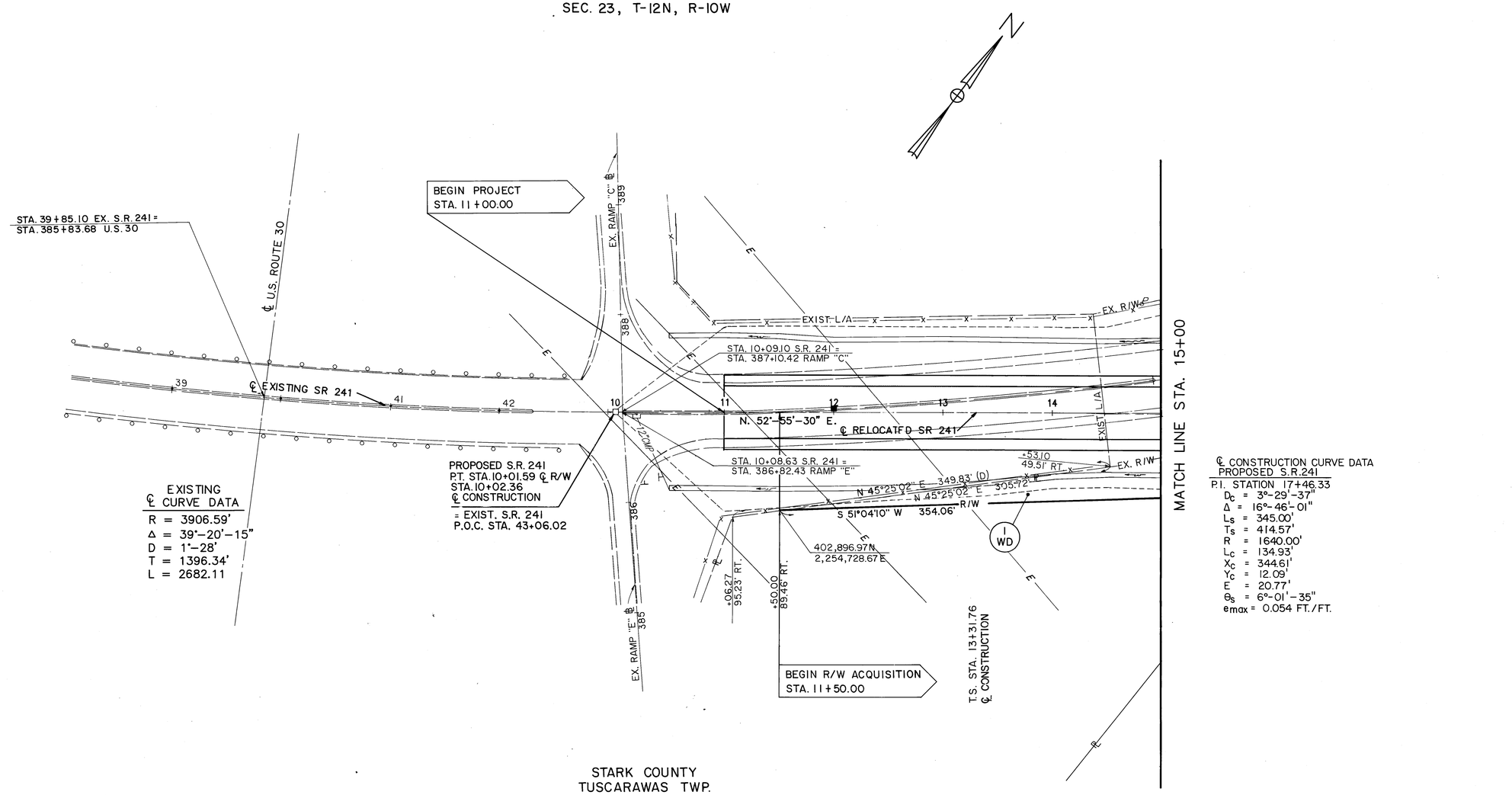
CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

279/303

STARK COUNTY

R/W 14/38

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W



STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

MICHAEL C. FEICHTER AND
BENEDETTE A. FEICHTER

I WD T.B.A. 0.322 Ac.
P.R.O. ____
CONT. 0.322 Ac.

FUNDS : STATE

50 0 50 100
Scale feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 5+00 TO STA. 15+00

PID No. 41108
STATE JOB No. 041630

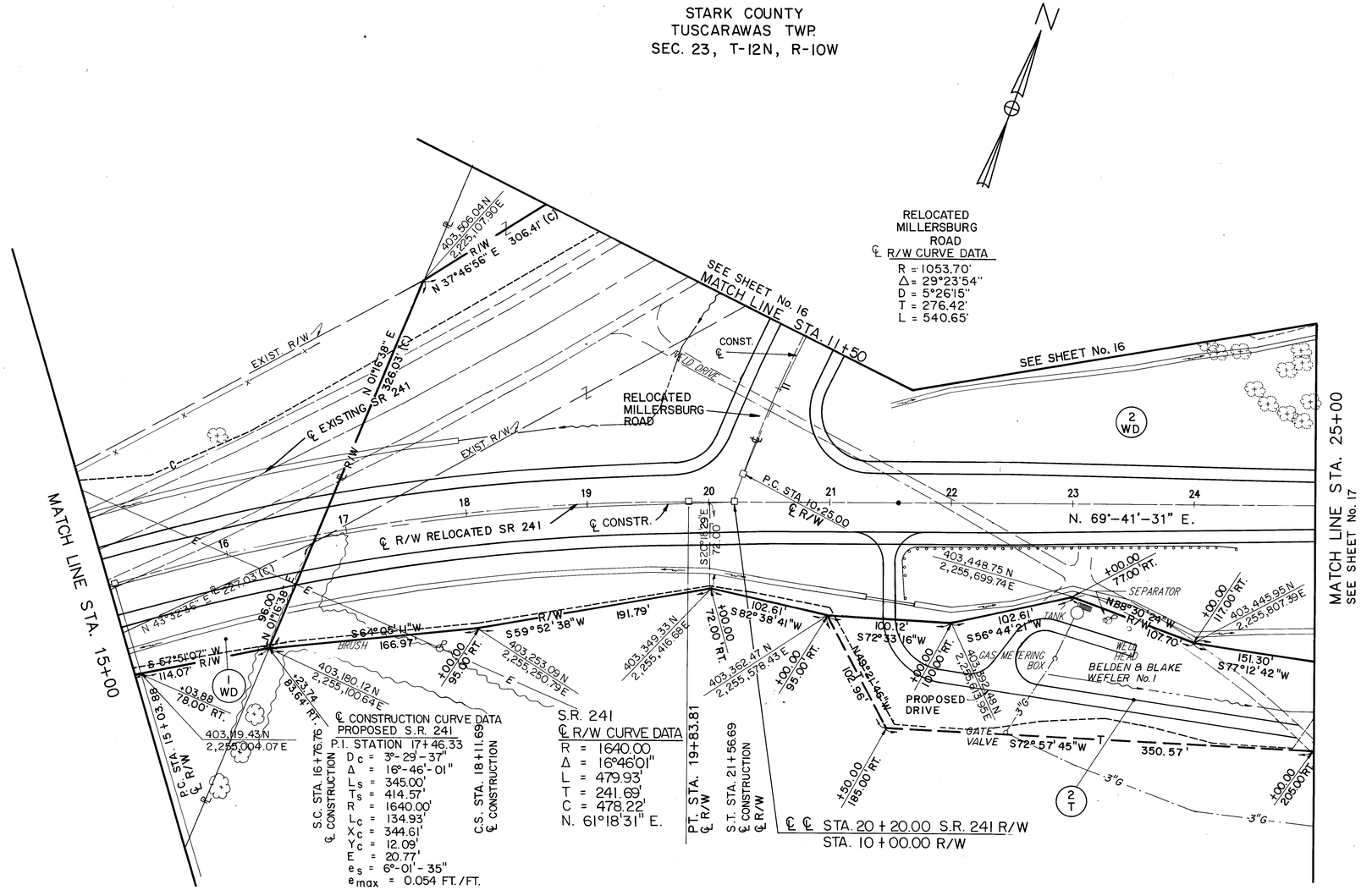
CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

280/303

STARK COUNTY

R/W 15/38

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W



℄ CONSTRUCTION CURVE DATA
PROPOSED S.R. 241
P.I. STATION 17+46.33
D_c = 3°-29'-37"
Δ = 16°-46'-01"
L_s = 345.00'
T_s = 414.57'
R = 1640.00'
L_c = 134.93'
X_c = 344.61'
Y_c = 12.09'
E = 20.77'
e_s = 6°-01'-35"
e_{max} = 0.054 FT./FT.

S.R. 241
℄ R/W CURVE DATA
R = 1640.00'
Δ = 16°46'01"
L = 479.93'
T = 241.69'
C = 478.22'
N. 61°18'31" E.

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

MICHAEL C. FEICHTER AND
BENEDETTE A. FEICHTER

1 WD SEE SHEET 14

WARREN H. WEFLER

2 WD SEE SHEET 17

2 T SEE SHEET 17

2 X SEE SHEET 17

2 SL SEE SHEET 17

FUNDS : STATE

Scale 50 0 50 100 feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 15+00 TO STA. 25+00

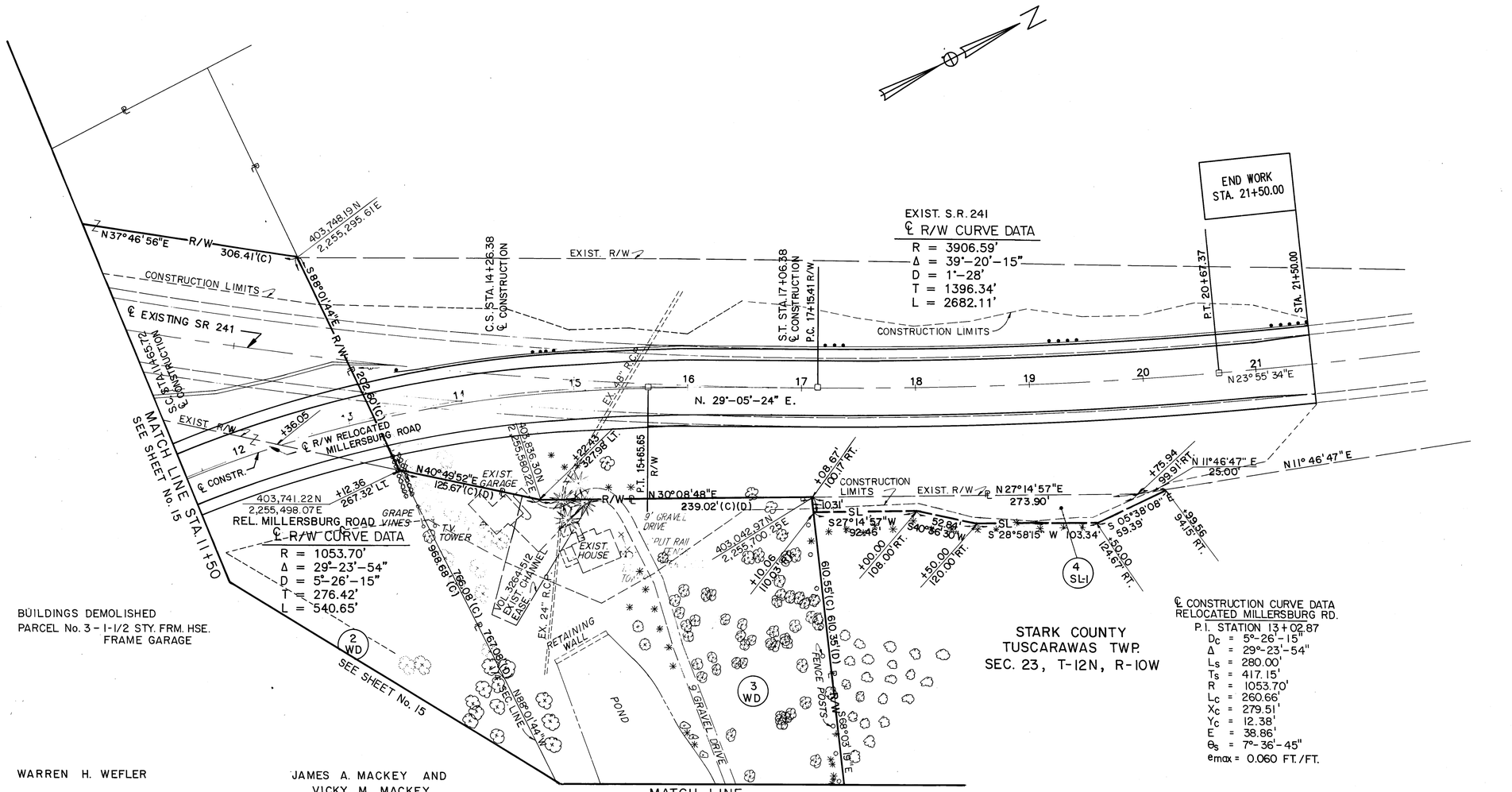
PID No. 41108
STATE JOB No. 041630

CALC. BY C.N.B. DATE 5/80	STA–241–4.22	OHIO	281 / 303
CHKD. BY DATE		FHWA REGION 5	

STARK COUNTY

R/W 16 / 38

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W



BUILDINGS DEMOLISHED
PARCEL No. 3 - 1-1/2 STY. FRM. HSE.
FRAME GARAGE

WARREN H. WEFLER

(2 WD) SEE SHEET 17

JAMES A. MACKEY AND
VICKY M. MACKEY

(3 WD) T.B.A. 3.271 Ac.
P.R.O. 0.036 Ac.
CONT. 3.307 Ac.

VERNON G. FOWLER AND
PHYLLIS A. FOWLER

(4 SL-1) SEE SHEET 17

MATCH LINE
SEE SHEET No. 17

STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

℄ CONSTRUCTION CURVE DATA
RELOCATED MILLERSBURG RD.
P.I. STATION 13+02.87
D_c = 5°-26'-15"
Δ = 29°-23'-54"
L_s = 280.00'
T_s = 417.15'
R = 1053.70'
L_c = 260.66'
X_c = 279.51'
Y_c = 12.38'
E = 38.86'
θ_s = 7°-36'-45"
e_{max} = 0.060 FT./FT.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

50 0 50 100
Scale feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY RELOC. MILLERSBURG ROAD

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

STARK COUNTY

282/303

R/W 17/38

PARCEL No.3

TYPE SIZE	MAPLE	W/CHERRY	ELM	OAK	ASH	LOCUST	WILLOW	CHERRY	APPLE	DOGWOOD	FRUIT TREE	EVER-GREEN	MAGNOLIA	HICKORY
<12"	28	9	17	1	6	1		2	1	3	8	24		1
12"-18"	7	9	2	3	12			2				11	1	
18"-24"	2	1		1	1			1						
24"-36"	2						2							
36"-48"	2													

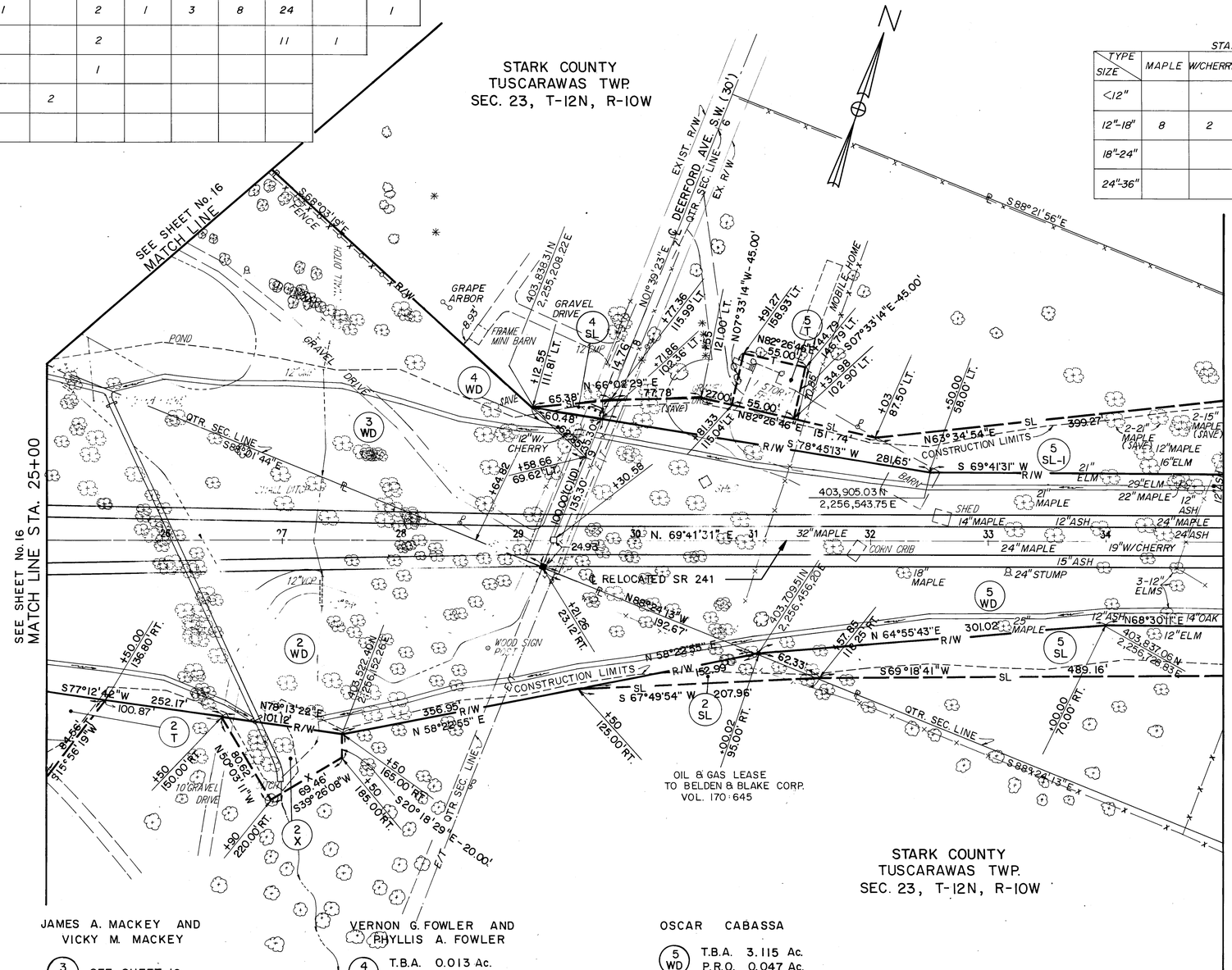
PARCEL No.5
STA. 29+77.36 TO 31+57.85

TYPE SIZE	MAPLE	W/CHERRY	HICKORY	OAK	ASH	BEECH
<12"						
12"-18"	8	2	1	17	1	1
18"-24"				4	2	3
24"-36"				2		2

BUILDINGS DEMOLISHED
PARCEL No.5- 1 STY. FRM. HSE.
FRAME BARN
3- SHEDS
CORN CRIB

PARCEL No. 2

TYPE SIZE	MAPLE	W/CHERRY	ELM	OAK	ASH	BEECH	WILLOW	CHERRY	PINES
<12"								1	10
12"-18"		24	6	11	25	3		22	
18"-24"			1	5	9	3		2	
24"-36"		2		5	3	1	1	1	
36"-48"							1		



WARREN H. WEFLER

2 WD	T.B.A.	6.949 Ac.
	P.R.O.	1.594 Ac.
	CONT.	8.543 Ac.
2 X	T.B.A.	0.087 Ac.
2 SL	T.B.A.	0.060 Ac.
2 T	T.B.A.	0.837 Ac.

JAMES A. MACKEY AND VICKY M. MACKEY

3 WD	SEE SHEET 16	

VERNON G. FOWLER AND PHYLLIS A. FOWLER

4 WD	T.B.A.	0.013 Ac.
	P.R.O	0.011 Ac.
	CONT.	0.024 Ac.
4 SL	T.B.A.	0.006 Ac.
	P.R.O.	0.004 Ac.
	CONT.	0.010 Ac.
4 SL-1	T.B.A.	0.111 Ac.

OSCAR CABASSA

5 WD	T.B.A.	3.115 Ac.
	P.R.O.	0.047 Ac.
	CONT.	3.162 Ac.
5 T	T.B.A	0.057 Ac.
5 SL	T.B.A.	0.691 Ac.
5 SL-1	T.B.A.	0.857 Ac.
	P.R.O.	0.006 Ac.
	CONT.	0.863 Ac.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

50 0 50 100
Scale feet

REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 25+00 TO STA. 35+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

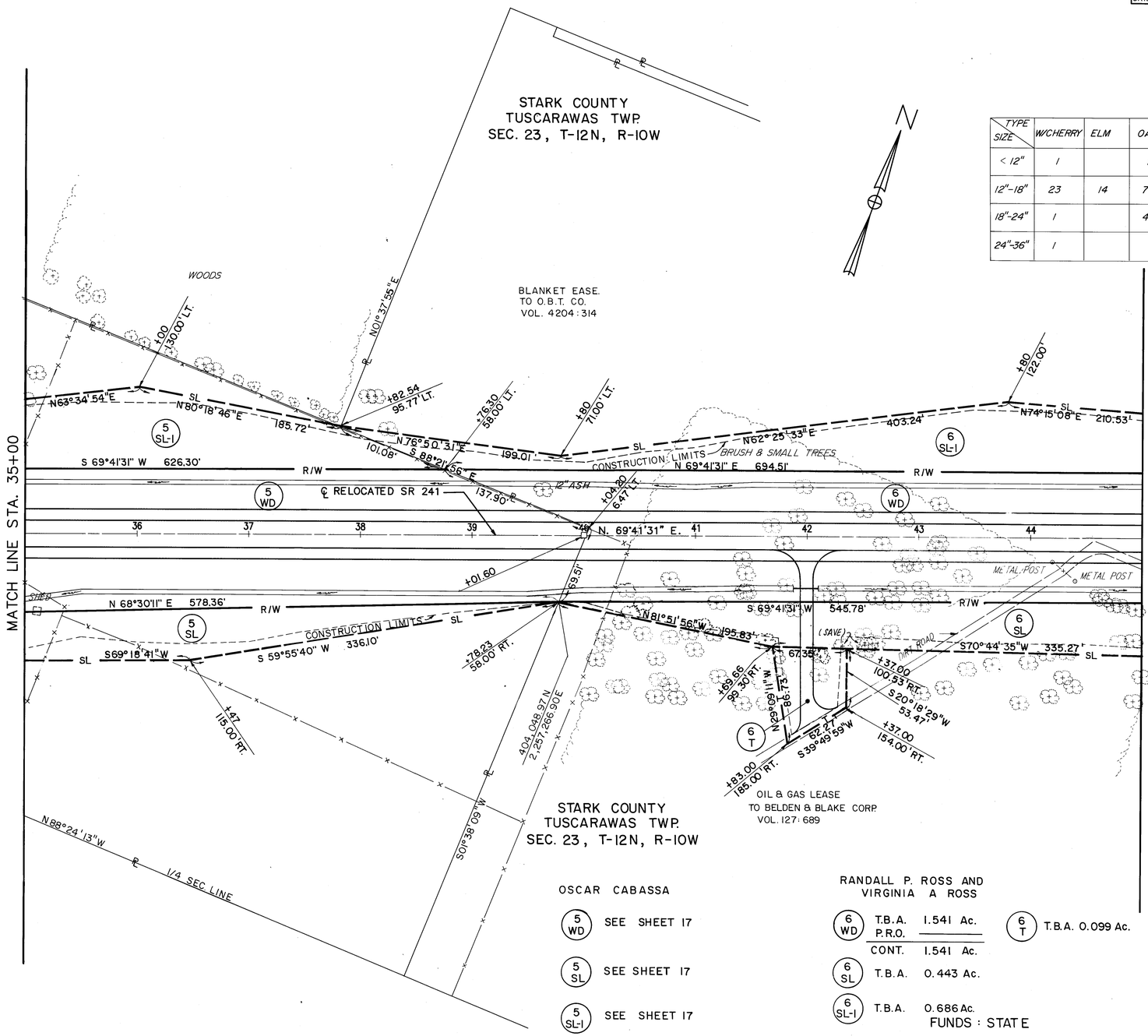
283/303

STARK COUNTY

R/W 18/38

PARCEL # 6
STA. 39+97 TO 45+04.87

TYPE / SIZE	W/CHERRY	ELM	OAK	ASH	APPLE	HICKORY	POPLAR	SASSAFRAS	TULIP	WALNUT
< 12"	1		1				4	2		
12"-18"	23	14	7	2	1	1	4	1		1
18"-24"	1		4	1					1	
24"-36"	1									



STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

OSCAR CABASSA

- (5 WD) SEE SHEET 17
- (5 SL) SEE SHEET 17
- (5 SL-1) SEE SHEET 17

OIL & GAS LEASE
TO BELDEN & BLAKE CORP.
VOL. 127: 689

RANDALL P. ROSS AND
VIRGINIA A ROSS

- (6 WD) T.B.A. 1.541 Ac.
  P.R.O. ———
  CONT. 1.541 Ac.
- (6 SL) T.B.A. 0.443 Ac.
- (6 SL-1) T.B.A. 0.686 Ac.
- (6 T) T.B.A. 0.099 Ac.

FUNDS : STATE

Scale 50 0 50 100 feet

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 35+00 TO STA. 45+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

STARK COUNTY

284/303

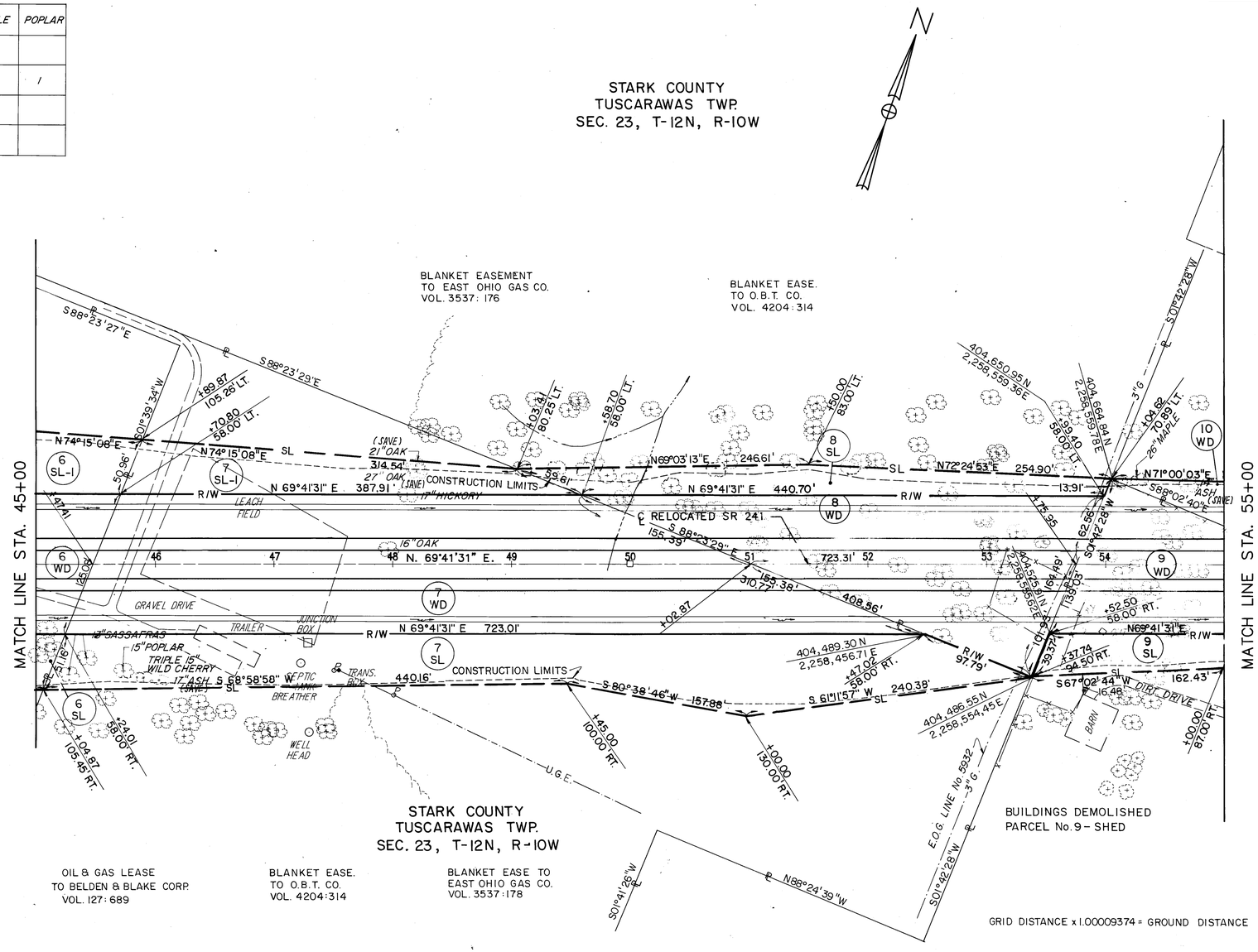
R/W 19/38

PARCEL # 8
STA. 49+03.41 TO 53+06.69

TYPE / SIZE	MAPLE	W/CHERRY	ELM	OAK	ASH	APPLE	POPLAR
<12"	3				5		
12"-18"	8	34	1	1	7		1
18"-24"	2	5		1		1	
24"-36"	1				1		

PARCEL # 9
STA. 53+34.72 TO 55+00

TYPE / SIZE	MAPLE	W/CHERRY	ASH	HICKORY	SASSAFRAS
12"-18"	7	5	9	3	2
18"-24"			4		
24"-36"			2		



STARK COUNTY
TUSCARAWAS TWP.
SEC. 23, T-12N, R-10W

OIL & GAS LEASE TO BELDEN & BLAKE CORP. VOL. 127: 689

BLANKET EASE. TO O.B.T. CO. VOL. 4204:314

BLANKET EASE TO EAST OHIO GAS CO. VOL. 3537:178

BUILDINGS DEMOLISHED
PARCEL No. 9 - SHED

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

RANDALL P. ROSS AND VIRGINIA A. ROSS

- (6 WD) SEE SHEET 18
- (6 SL) SEE SHEET 18
- (6 SL-1) SEE SHEET 18

JOSEPH W. NOTCH AND JANE K. NOTCH

- (7 WD) T.B.A. 1.479 Ac. / P.R.O. ____ / CONT. 1.479 Ac.
- (7 SL) T.B.A. 0.902 Ac.
- (7 SL-1) T.B.A. 0.275 Ac.

TERRENCE J. LIMBACH, DAVID F. LIMBACH, JEFFREY L. LIMBACH & MARK S. LIMBACH

- (8 WD) T.B.A. 0.771 Ac. / P.R.O. ____ / CONT. 0.771 Ac.
- (8 SL) T.B.A. 0.230 Ac.

GERALD J. TABELLION AND MARY L. TABELLION

- (9 WD) SEE SHEET 20
- (9 SL) SEE SHEET 20

KENNETH D. CONSTABLE AND DELIA K. CONSTABLE

- (10 WD) SEE SHEET 20

FUNDS : STATE

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 45+00 TO STA. 55+00

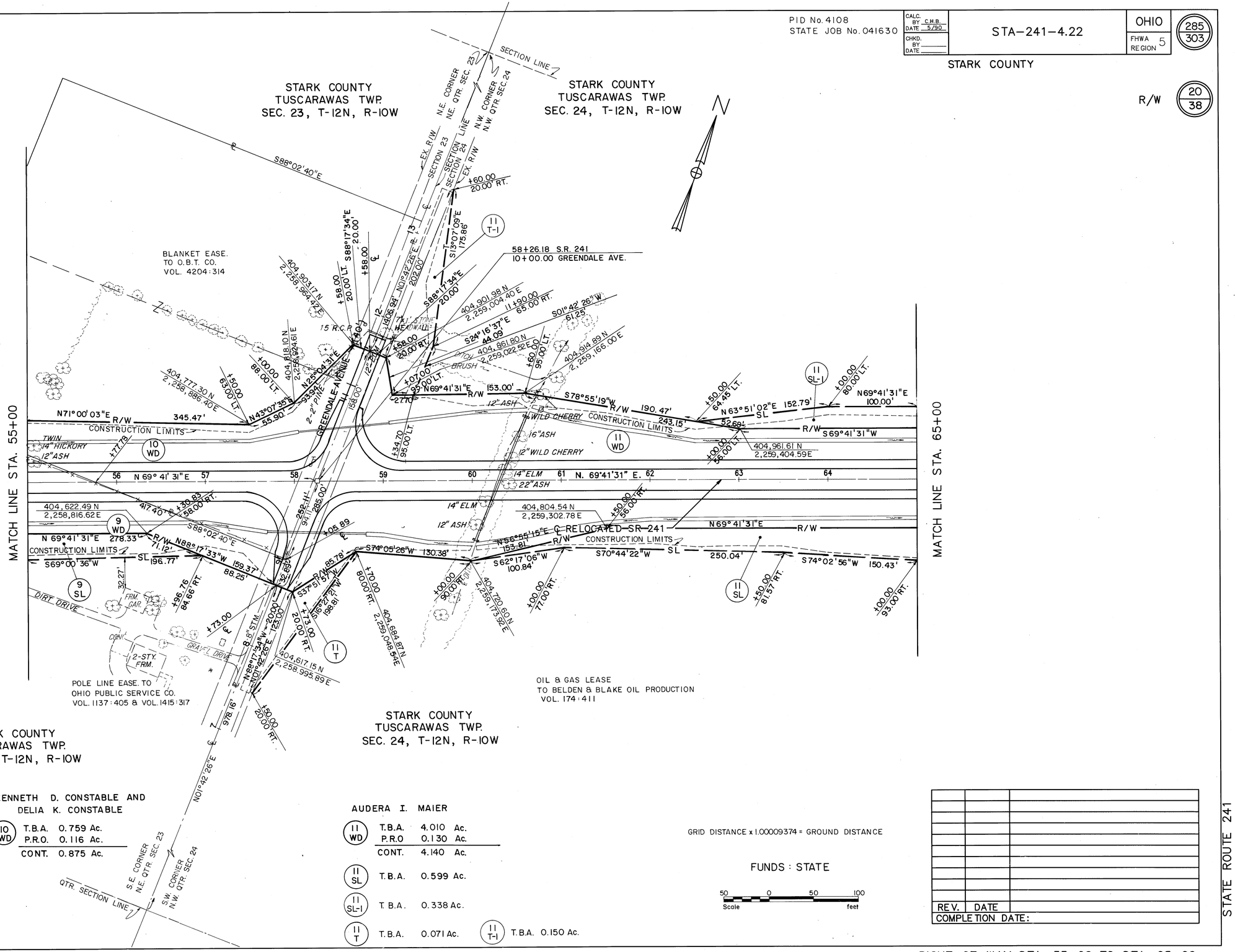
PID No. 41108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

STARK COUNTY

285/303

R/W 20/38



GERALD J. TABELLION AND MARY L. TABELLION

9 WD	T.B.A.	0.618 Ac.
	P.R.O.	0.015 Ac.
	CONT.	0.633 Ac.
9 SL	T.B.A.	0.221 Ac.

KENNETH D. CONSTABLE AND DELIA K. CONSTABLE

10 WD	T.B.A.	0.759 Ac.
	P.R.O.	0.116 Ac.
	CONT.	0.875 Ac.

AUDERA I. MAIER

11 WD	T.B.A.	4.010 Ac.
	P.R.O	0.130 Ac.
	CONT.	4.140 Ac.
11 SL	T.B.A.	0.599 Ac.
11 SL-1	T.B.A.	0.338 Ac.
11 T	T.B.A.	0.071 Ac.
11 T-1	T.B.A.	0.150 Ac.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 50 0 50 100 feet

REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 55+00 TO STA. 65+00

PID No. 4108
STATE JOB No. 041630

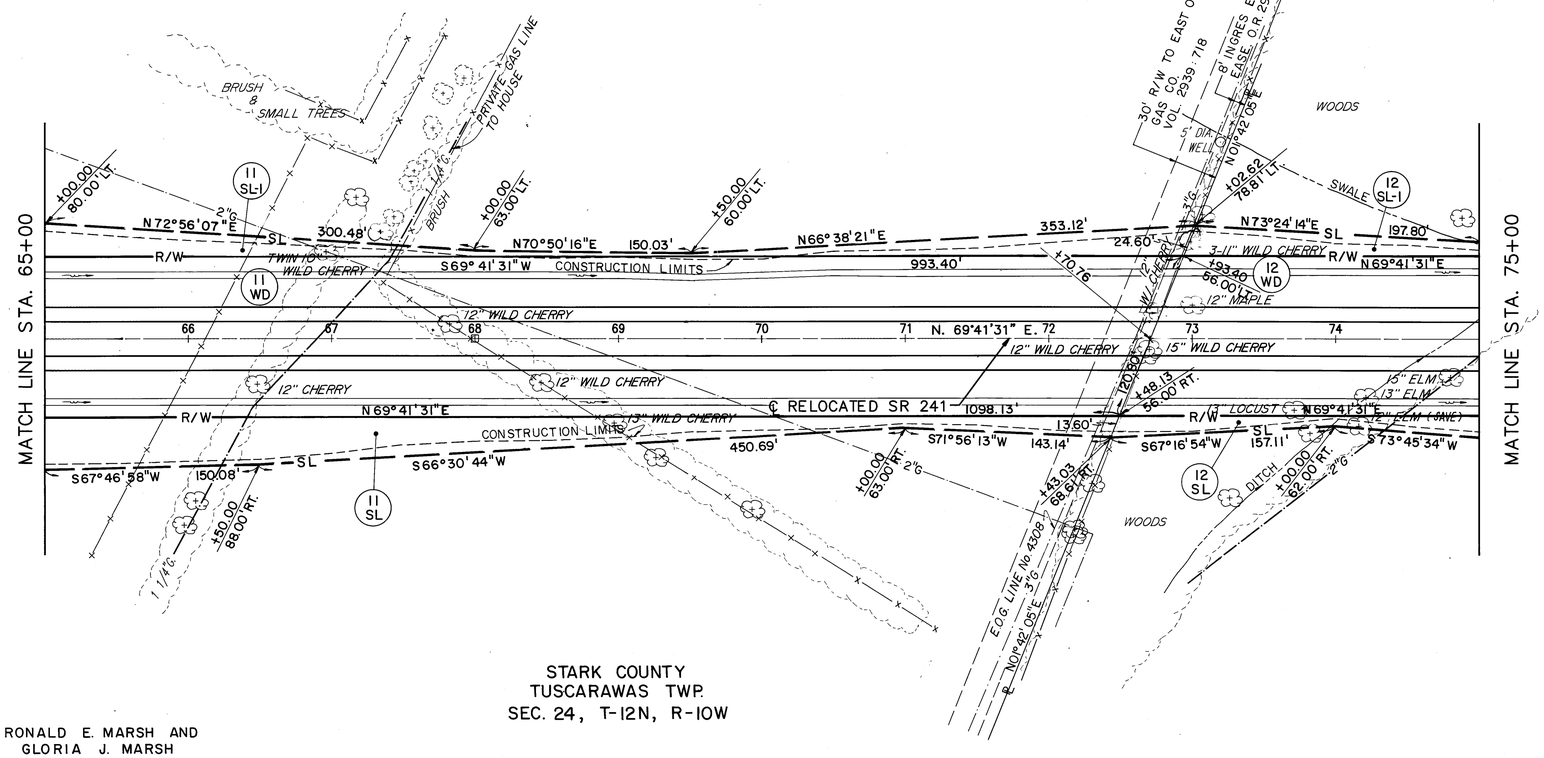
CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

STARK COUNTY

286/303

R/W 21/38

STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W



STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W

AUDERA I. MAIER

- 11 WD — SEE SHEET 20
- 11 SL — SEE SHEET 20
- 11 SL-1 — SEE SHEET 20

RONALD E. MARSH AND GLORIA J. MARSH

- 12 WD — SEE SHEET 22
- 12 SL — SEE SHEET 22
- 12 SL-1 — SEE SHEET 22

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

50 0 50 100
Scale feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 65+00 TO STA. 75+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

287/303

STARK COUNTY

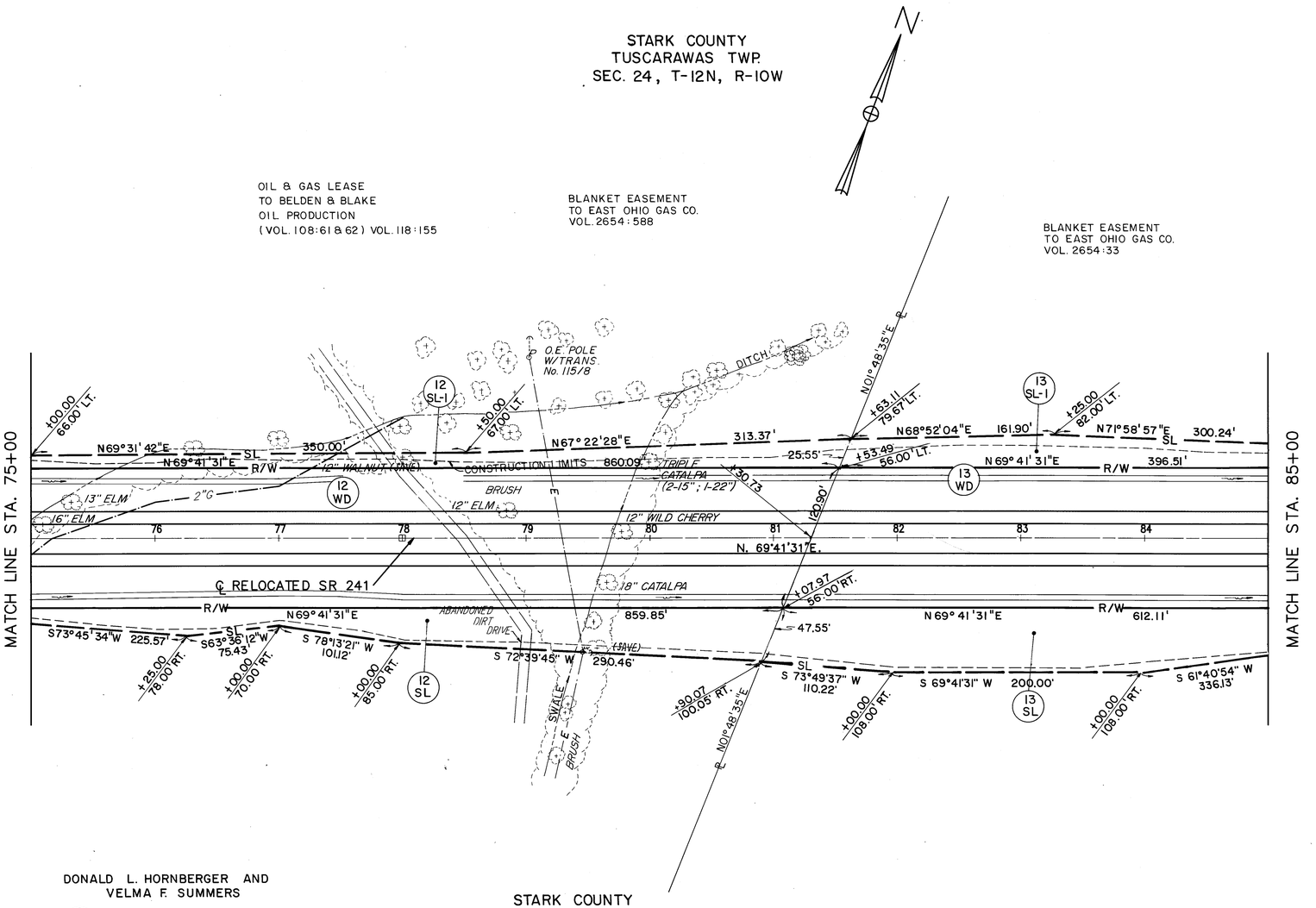
R/W 22/38

STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W

OIL & GAS LEASE
TO BELDEN & BLAKE
OIL PRODUCTION
(VOL. 108:618 62) VOL. 118:155

BLANKET EASEMENT
TO EAST OHIO GAS CO.
VOL. 2654:588

BLANKET EASEMENT
TO EAST OHIO GAS CO.
VOL. 2654:33



STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W

RONALD E. MARSH AND
GLORIA J. MARSH

12 WD	T.B.A.	2.211 Ac.
	P.R.O.	____
	CONT.	2.211 Ac.
12 SL	T.B.A.	0.438 Ac.
12 SL-1	T.B.A.	0.283 Ac.

DONALD L. HORNBERGER AND
VELMA F. SUMMERS

13 WD	T.B.A.	1.523 Ac.
	P.R.O.	____
	CONT.	1.523 Ac.
13 SL	T.B.A.	0.569Ac.
13 SL-1	T.B.A.	0.244 Ac.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

50 0 50 100
Scale feet

REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 75+00 TO STA. 85+00

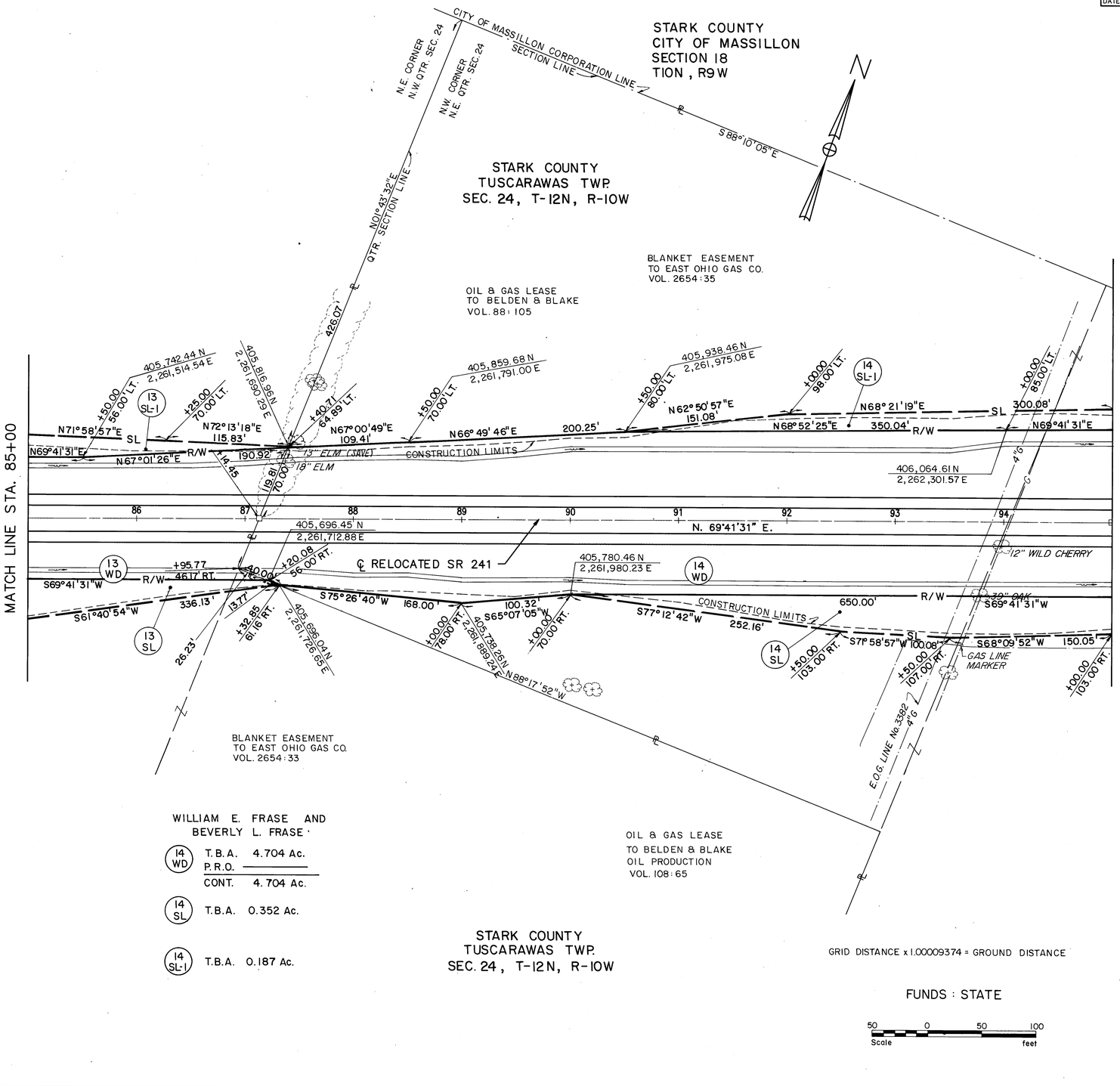
PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

STARK COUNTY

288/303

R/W 23/38



DONALD L. HORNBERGER AND VELMA F. SUMMERS

(13 WD) SEE SHEET 22

(13 SL) SEE SHEET 22

(13 SL-1) SEE SHEET 22

WILLIAM E. FRASE AND BEVERLY L. FRASE

(14 WD) T.B.A. 4.704 Ac.
P.R.O. ———
CONT. 4.704 Ac.

(14 SL) T.B.A. 0.352 Ac.

(14 SL-1) T.B.A. 0.187 Ac.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 50 0 50 100 feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 85+00 TO STA. 95+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22
CHKD. BY ____ DATE ____	

OHIO | FHWA REGION 5

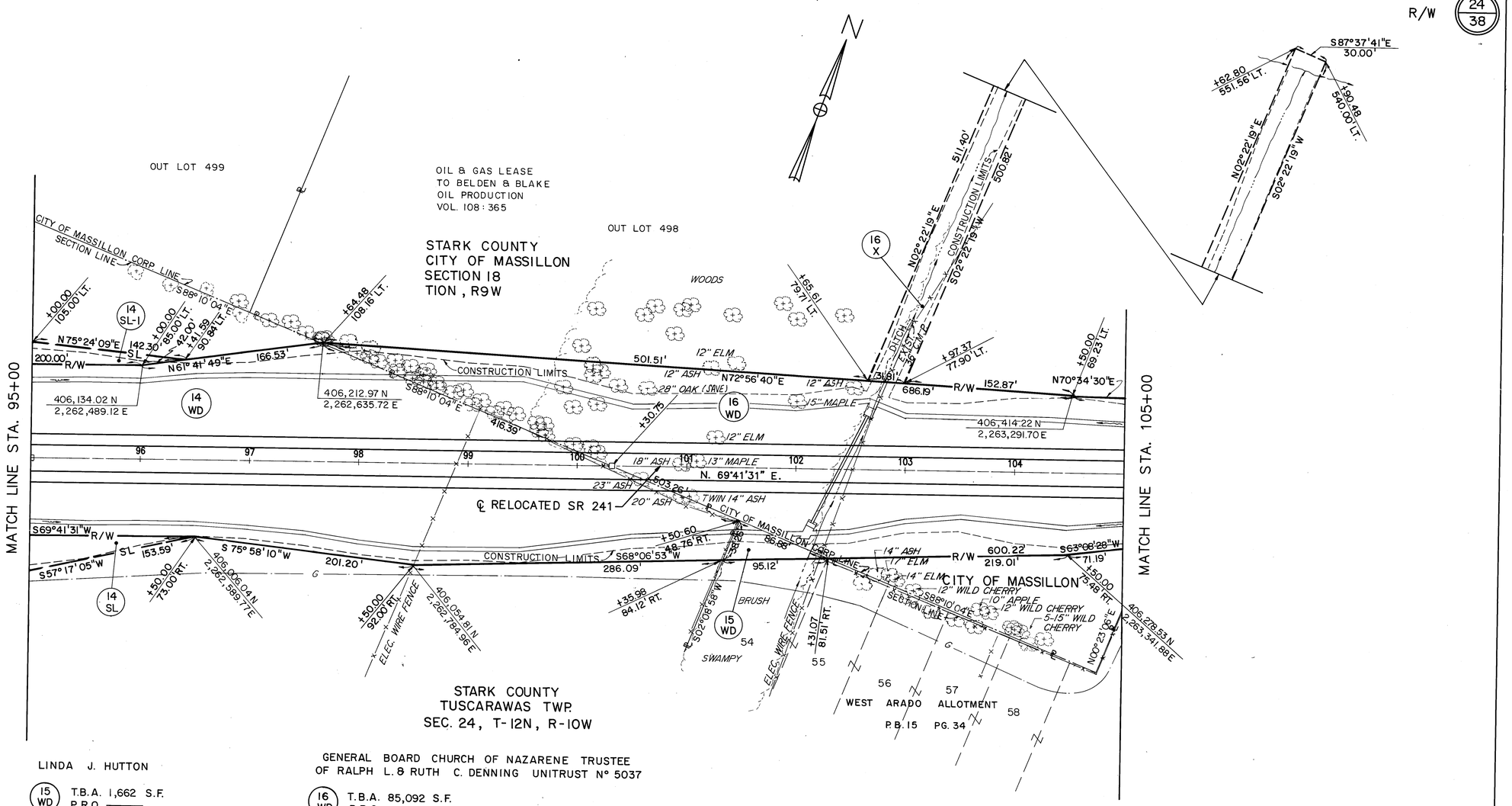
289 / 303

STARK COUNTY

R/W 24 / 38

PARCEL # 16
STA. 97+64.48 TO 100+50

SIZE \ TYPE	W/CHERRY	OAK	ASH	HICKORY
12"-18"	14	10	12	1
18"-24"	2	2	1	
24"-36"		3		



STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W

WILLIAM E. FRASE AND BEVERLY L. FRASE

(14 WD) SEE SHEET 23

(14 SL) SEE SHEET 23

(14 SL-1) SEE SHEET 23

LINDA J. HUTTON

(15 WD) T.B.A. 1,662 S.F.
P.R.O. ____
CONT. 1,662 S.F.

GENERAL BOARD CHURCH OF NAZARENE TRUSTEE OF RALPH L. & RUTH C. DENNING UNITRUST N° 5037

(16 WD) T.B.A. 85,092 S.F.
P.R.O. ____
CONT. 85,092 S.F.

(16 X) T.B.A. 15,183 S.F.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 50 0 50 100 feet

REV.	DATE
COMPLETION DATE:	

STATE ROUTE 241

RIGHT OF WAY

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA–241–4.22	OHIO	293/303
CHKD. BY ____ DATE ____		FHWA REGION 5	

STARK COUNTY

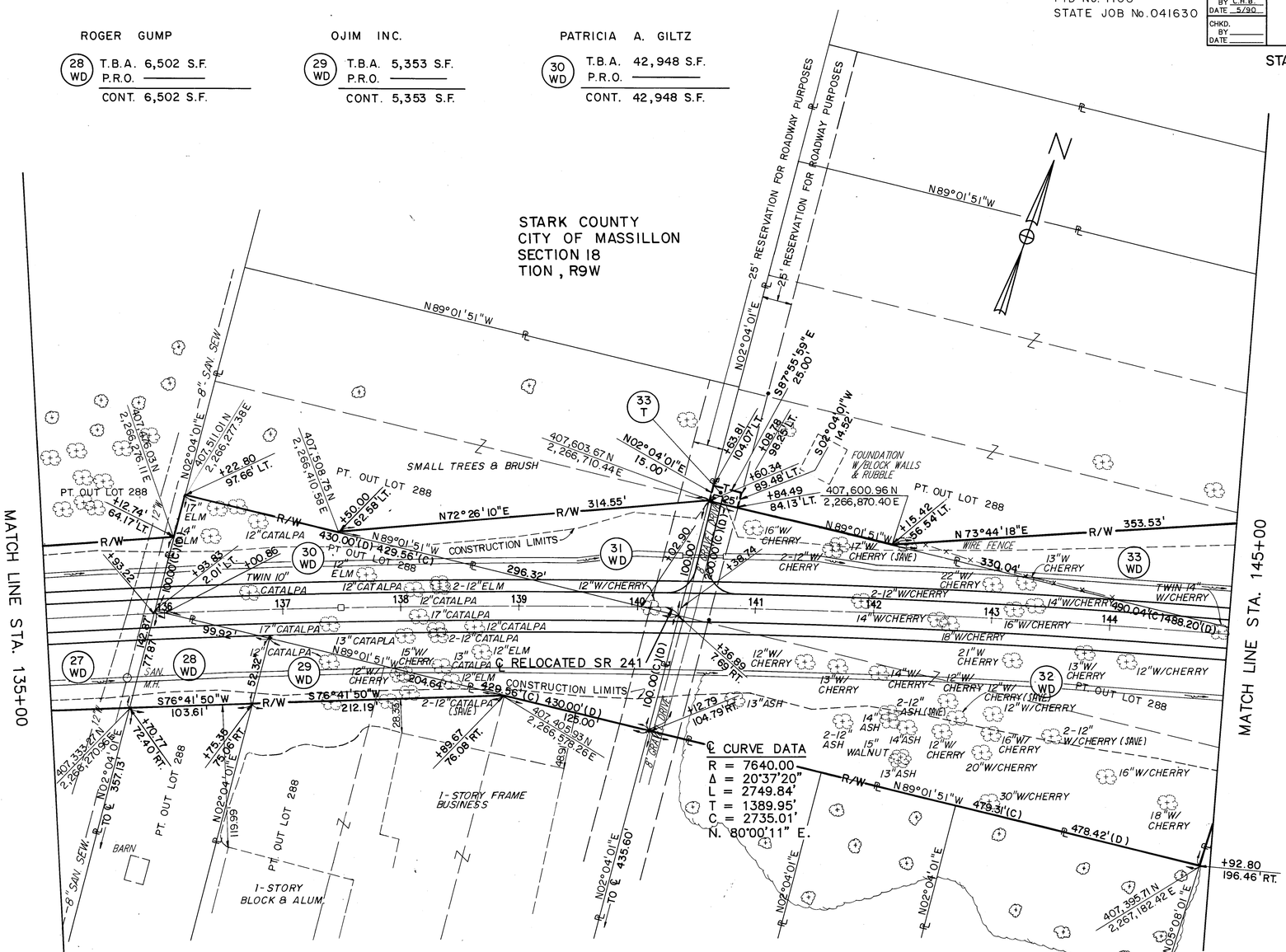
R/W 28/38

MASSILLON BAPTIST TEMPLE INC
/ AN OHIO CORPORATION
(27 WD) SEE SHEET Nº 27

ROGER GUMP
(28 WD) T.B.A. 6,502 S.F.
P.R.O. ____
CONT. 6,502 S.F.

OJIM INC.
(29 WD) T.B.A. 5,353 S.F.
P.R.O. ____
CONT. 5,353 S.F.

PATRICIA A. GILTZ
(30 WD) T.B.A. 42,948 S.F.
P.R.O. ____
CONT. 42,948 S.F.



RICHARD E. ROTHROCK
& DAVID E. KOHLER
(31 WD) T.B.A. 14,813 S.F.
P.R.O. ____
CONT. 14,813 S.F.

MARTIN A. GARCIA, PHILIP W. GARCIA
& TOMIA NICKOLOFF
(32 WD) T.B.A. 96,917 S.F.
P.R.O. ____
CONT. 96,917 S.F.

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION , R9W

MICHAEL V. ALEXANDER
(33 WD) T.B.A. 17,281 S.F.
P.R.O. ____
CONT. 17,281 S.F.

(33 T) T.B.A. 369 S.F.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 50 0 50 100 feet

REV.	DATE	
COMPLETION DATE:		

RIGHT–OF–WAY STA.135+00 TO STA. 145+00

PID No. 4108
STATE JOB No. 041630

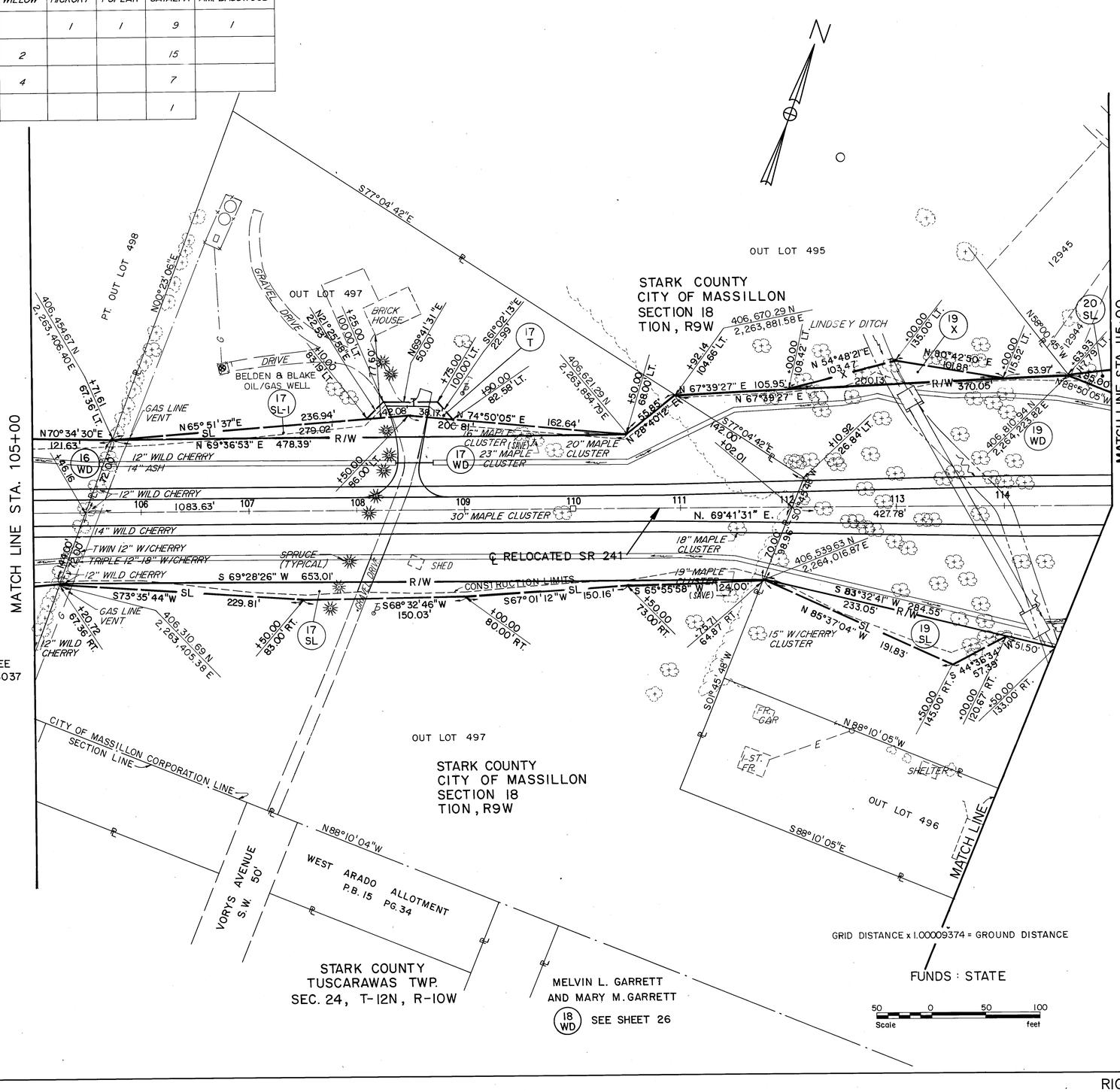
CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO	290 / 303
CHKD. BY ____ DATE ____		FHWA REGION 5	

STARK COUNTY

R/W 25 / 38

PARCEL No. 19 STA. 111+70.00 TO STA. 116+29.79

TYPE / SIZE	MAPLE	W/CHERRY	ELM	ASH	BEECH	WILLOW	HICKORY	POPLAR	CATALPA	AM. BASSWOOD
12"-18"	1	15	16	1			1	1	9	1
18"-24"	4	2		2		2			15	
24"-36"		2			1	4			7	
									1	


MATCH LINE STA. 105+00
MATCH LINE STA. 115+00
STATE ROUTE 241
PT. OUT LOT 498
OUT LOT 497
OUT LOT 495
OUT LOT 496
STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION, R9W
STARK COUNTY
TUSCARAWAS TWP.
SEC. 24, T-12N, R-10W
CITY OF MASSILLON CORPORATION LINE
SECTION LINE
℄ RELOCATED SR 241
CONSTRUCTION LIMITS
R/W
SL
GRAVEL DRIVE
DRIVE
BRICK HOUSE
SHED
BELDEN & BLAKE OIL/GAS WELL
GAS LINE VENT
LINDSEY DITCH
WEST ARADO ALLOTMENT P.B. 15 PG. 34
VORY'S AVENUE S.W. 50'
FR. GAR
1-ST. FR.
SHELTER
12" WILD CHERRY
14" ASH
14" WILD CHERRY
TWIN 12" W/CHERRY
TRIPLE 12"-18" W/CHERRY
SPRUCE (TYPICAL)
30" MAPLE CLUSTER
20" MAPLE CLUSTER
23" MAPLE CLUSTER
18" MAPLE CLUSTER
19" MAPLE CLUSTER
15" W/CHERRY CLUSTER
406,454.67 N
2,263,406.40 E
406,621.29 N
2,263,854.79 E
406,670.29 N
2,263,881.58 E
406,539.63 N
2,264,016.87 E
406,310.69 N
2,263,405.38 E
406,810.54 N
2,264,223.82 E
N 70°34'30" E
N 65°51'37" E
N 69°36'53" E 478.39'
N 74°50'05" E 162.64'
N 67°39'27" E 105.95'
N 67°39'27" E
N 28°40'12" E
S 77°04'42" E
N 00°23'05" E
N 54°48'21" E
N 90°42'50" E
N 88°50'05" W
S 73°35'44" W
S 69°28'26" W 653.01'
S 68°32'46" W
S 67°01'12" W
S 65°55'58" W
S 83°32'41" W
N 85°37'04" W
S 44°36'34" W
S 01°45'48" W
N 88°10'05" W
N 88°10'04" W
S 88°10'05" E
N. 69°41'31" E.
N 69°41'31" E
N 02°25'58" E
S 61°02'13" E
N 59°41'31" E
N 58°00'45" W
S 30°43'58" W
1083.63'
427.78'
236.94'
279.02'
229.81'
150.03'
191.83'
284.55'
233.05'
124.00'
98.96'
67.36' LT.
67.36' RT.
+71.61
+46.16
+20.72
+25.00
+10.00
+90.00
+75.00
+82.14
+10.92
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+75.71
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STATE JOB No. 041630

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CHKD. BY ____ DATE ____		FHWA REGION 5	

STARK COUNTY

R/W 26/38

SAMUEL RON
(19 WD) SEE SHEET 25

SAMUEL RON & PATRICIA A. GABELE
(20 WD) T.B.A. 6,990 S.F.
P.R.O. ____
CONT. 6,990 S.F.
(20 SL) T.B.A. 2,740 S.F.

JOHN P. RIESE & CALLY S. RIESE
(23 WD) T.B.A. 3,163 S.F.
P.R.O. 2,240 S.F.
CONT. 5,403 S.F.
(23 T) T.B.A. 3,106 S.F.

ARCHA F. EGGLESTON & THELMA EGGLESTON
(24 WD) T.B.A. 108,035 S.F.
P.R.O. 26,002 S.F.
CONT. 134,037 S.F.
(24 SL) T.B.A. 5,754 S.F.
(24 T) T.B.A. 1,718 S.F.
(24 E) T.B.A. 19,135 S.F.
P.R.O. 6,967 S.F.
CONT. 26,102 S.F.
(24 T-I) T.B.A. 940 S.F.

ROBERT H. INDORF, GRACE E. CANTELLI AND FLORENCE E. INDORF
(25 WD) T.B.A. 12,544 S.F.
P.R.O. 7,117 S.F.
CONT. 19,661 S.F.
(25 SL) T.B.A. 7,751 S.F.
P.R.O. 959 S.F.
CONT. 8,710 S.F.

FOODWAYS NATIONAL INC.
(26 WD) T.B.A. 1,800 S.F.
P.R.O. 3,046 S.F.
CONT. 4,846 S.F.

PARCEL No. 24

TYPE / SIZE	MAPLE	W/CHERRY	ELM	APPLE	WALNUT	CHERRY	DOGWOOD	MAGNOLIA	CATALPA	PINE	FRUIT TREE
<12"	5	9	14	1	5				5	4	4
12"-18"	1	15	2	2			1	1	1	4	
18"-24"		5				1			2		
24"-36"		4							16		
36"-48"	1								4		

PARCEL No. 25

TYPE / SIZE	CATALPA	W/CHERRY
12"-18"	8	4
18"-24"	3	3
24"-36"	4	

MATCH LINE STA. 115+00

MATCH LINE STA. 125+00

OBERLIN RD. S.W. 50'

POLE LINE EASE. TO OHIO EDISON CO. VOL. 2858:10

12943 4" L.P.G.

GRAVEL PARKING

2 STORY APT. BLDG.

12359 20' GRAVEL DR.

SAN M.H.

406,962.64 N
2,264,404.15 E

406,961.77 N
2,264,429.13 E

S 88°00' 45" E
30.00'

12+03.18
35.00' LT.

12+03.18
30.00' RT.

406,960.73 N
2,264,459.11 E

HYD.

10" SAN. SEW.

254.13'

+60.75
137.41' LT.

407,002.44 N
2,264,684.76 E

CONSTRUCTION LIMITS

OBERLIN ROAD S.W.

50' R/W

EXIST. R/W

S 89°01'15" E
406.04'

660.17'

406,998.37 N
2,264,925.58 E

SMALL TREES

+50.00
63.71' LT.

+85.21
50.00' LT.

+50.00
65.00' LT.

N 59°13'53" E 202.18'

N 69°19'21" E 200.00'

N 69°41'31" E 342.31'

R/W

SAN M.H.

(25 WD)

(25 SL)

N 63°33'07" E
139.14'

SL

(20 SL)

(20 WD)

(24 E)

(24 SL)

(24 T)

(24 T-I)

(24 WD)

(25 WD)

(26 WD)

(23 WD)

(23 T)

(18 WD)

(18 T)

(19 WD)

(18 WD)

(18 T)

(23 WD)

(23 T)

(24 T-I)

(25 SL)

(26 WD)

(25 WD)

(24 WD)

(24 SL)

(24 T)

(24 E)

(20 WD)

(20 SL

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90
CHKD. BY ____ DATE ____

STA-241-4.22

OHIO
FHWA REGION 5

294/303

STARK COUNTY

R/W 29/38

WILLIAM L. GENSAMER & BEVERLY J. GENSAMER
(34 WD) T.B.A. 8,195 S.F.
P.R.O. ____
CONT. 8,195 S.F.

MARIA JOKSIMOVIC
(35 WD) T.B.A. 31,537 S.F.
P.R.O. 871 S.F.
CONT. 32,408 S.F.

RONALD L. WEISGARBER & JO ANN WEISGARBER
(36 WD) T.B.A. 53,187 S.F.
P.R.O. 1,481 S.F.
CONT. 54,668 S.F.

SARAH R. POLEN
(37 WD) T.B.A. 53,187 S.F.
P.R.O. 1,481 S.F.
CONT. 54,668 S.F.

LOCAL Nº 1124, UNITED STEEL WORKERS OF AMERICA
(38 WD) T.B.A. 578 S.F.
P.R.O. 787 S.F.
CONT. 1,365 S.F.

BUILDINGS DEMOLISHED
PARCEL No. 35 - 1-1/2 STY. FRM. HSE. SHED
PARCEL No. 36 - 1-1/2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 37 - 2 STY. FRM. HSE. FRAME, GARAGE

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION, R9W

BONKS PROPERTIES INC.
SEE SHEET Nº 30

MATCH LINE STA. 145+00

MATCH LINE STA. 155+00

STATE ROUTE 241

N

S85°55'59"E
N89°01'51"W
N05°08'01"E
N85°55'59"W
S05°08'01"W
N84°51'59"W
S84°51'59"E
S18°29'47"W
S43°04'47"W
S23°03'30"W
S06°08'01"W
N27°30'14"E
S72°54'07"W

EXIST. EVERFLOW EASTERN INC. OIL & GAS WELL

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC. VOL. 612:18 - CONSOL. IN VOL. 742:962

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC. VOL. 622:518 - CONSOL. IN VOL. 742:962

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC. VOL. 622:524 - CONSOL IN VOL. 742:962

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC. VOL. 622:526 - CONSOL. IN VOL. 742:962

NON. DEVEL. OIL & GAS LEASE TO EVERFLOW EASTERN INC. VOL. 622:530 - CONSOL. IN VOL. 742:962

PT. OUT LOT 288
PT. OUT LOT 291
ASPHALT PARKING LOT
CONSTRUCTION LIMITS
BUSH
LILAC
CHERRY
2 STORY FRM HSE.
1 STORY FRM HSE.
1½ STORY FRAME HOUSE
SHED
GAR.
CONC.
18' GRAVL DRIVE
20' GRAVEL DRIVE
BALLFIELDS
BASKETBALL-O
4 CHWAY
SIGN
MAIL BOX
M.P.H. SIGN
SAN.M.H.
GAS
9TH STREET S.W. (30')

407,794.13 N 2,267,218.22 E
407,757.97 N 2,267,726.89 E
407,808.78 N 2,267,753.53 E
407,806.10 N 2,267,783.41 E
407,706.25 N 2,267,804.64 E
407,626.38 N 2,267,801.22 E
407,600.43 N 2,267,776.96 E
407,555.65 N 2,267,730.96 E
407,497.18 N 2,267,740.60 E
407,456.33 N 2,267,187.61 E
407,523.43 N 2,267,399.49 E
407,689.95 N 2,267,209.76 E
407,495.83 N 2,267,755.55 E

+83.12 193.29' LT.
+61.40 95.77' LT.
+39.51 105.00' RT.
+39.12 169.12' RT.
+79.36 199.36' RT.
+07.43 137.22' RT.
+27.40
+68.17
+94.92
+56.62 49.68' LT.
5+79.71 15.00' LT.
5+26.71 36.99' LT.
7+55.00 15.00' RT.
6+00.00 52.00' RT.
+50.00 50.00' LT.
+50.00 30.00' RT.
+75.00 35.00' RT.
+30.00 35.00' RT.
+58.17 15.00' RT.
0+92.00 15.00' RT.

547.00'(C)(D)
354.15'(C)(D)
311.54'(C)(D)
254.15'(C)(D)
205.00'
221.43'
162.59' (101.06' LT.)
102.09'
116.10'
160.38'
175.29'
192.0'
194.92'
176.17'
114.96'
181.07'
134.89'
64.96'
35.53'

STA. 150+96.67 S.R.241
STA. 4+25.76 9TH STREET S.W.
CITY OF MASSILLON CORP. LINE

℄ CURVE DATA
R = 7640.00
Δ = 20°37'20"
L = 2749.84'
T = 1389.95'
C = 2735.01'
N. 80°00'11" E.

OBERLIN ROAD S.W. - 60'
CENTERLINE

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 50 0 50 100 feet

MARTIN A. GARCIA, PHILIP W. GARCIA & TOMIA NICKOLOFF
(32 WD) SEE SHEET Nº 28

RICHARD E. ROTHROCK & DAVID E. KOHLER
(31 WD) SEE SHEET Nº 28

PARCEL No. 36

TYPE / SIZE	MAPLE	W/CHERRY	FRUIT	CHERRY	WILLOW	EVER-GREEN
<12"		1	7			
12"-18"	2		3	1	1	
18"-24"			1			2

PARCEL No. 35

TYPE / SIZE	FRUIT
<12"	43
12"-18"	3

PARCEL No. 37

TYPE / SIZE	MAPLE	W/CHERRY	ELM	OAK	ASH	WILLOW	CATALPA	FRUIT	EVER-GREEN	CHEST-NUT	O. SAGE ORANGE
<12"	18	5					1	10			1
12"-18"	1	2	1	1	1			2			
18"-24"	2					1			1	1	
24"-36"											

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION, R9W

REV.	DATE
COMPLETION DATE:	

RIGHT-OF-WAY STA. 145+00 TO STA. 155+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY ____ DATE ____		FHWA REGION 5

295/303

STARK COUNTY

R/W 30/38

BONKS PROPERTIES INC.

39 WD — T.B.A. 66,633 S.F.
P.R.O. 6,458 S.F.
CONT. 73,091 S.F.

39 T — T.B.A. 5,739 S.F.

39 T-2 — 6,945 S.F.

39 T-1 — T.B.A. 27,217 S.F.

N

+00.00 117.00 LT.

N89° 52' 57"E — T — 352.06'

CONSTRUCTION LIMITS

PT. OUT LOT 291

N41° 32' 01"E 2.120'

+50.00 117.00 LT.

+83.97 132.94' LT.

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION, R9W

39 T-1

STA. 5+00.00 8TH STREET S.W.
STA. 7+81.90 10' ALLEY

75.17'

N00° 41' 51"W

+00.00 41.83' LT.

DBL. 10" W/CHERRY (SAVE)

407,712.07N 2,268,292.86E

+33.90 43.00 LT.

R/W N89° 18' 58"E 135.65'

488.10'

12" W/CHERRY

CONSTRUCTION LIMITS

R/W S89° 41' 09"E 251.71'

16" W/CHERRY (SAVE)

231.70'

DBL. 14" W/CHERRY (SAVE)

+66.60 43.00 LT.

407,710.80N 2,268,524.33E

20.01'

QUAD. 8" APPLE

SAN. M.H.

+86.61 43.00 LT.

407,710.69N 2,268,524.34E

39 WD

STORM SEWER

QUAD. 10" W/CHERRY

TRI. 10" W/CHERRY

℄ RELOCATED SR 241

156 157 158

S. 89° 41' 09" E

5" W/CHERRY

8th STREET S.W. 40'

N01° 21' 58"W

89.98'

S01° 21' 58"E

89.44'

43.02'

6"W

MATCH LINE STA. 159+00

MATCH LINE STA. 155+00

17" W/CHERRY

CONSTRUCTION LIMITS

16" W/CHERRY

S89° 47' 58"W R/W 482.97'

N88° 28' 06"W R/W 254.39'

℄ CURVE DATA
R = 7640.00'
Δ = 20°37'20"
L = 2749.84'
T = 1389.95'
C = 2735.01'
N. 80°00'11" E.

+34.90 41.00' RT.

407,628.07N 2,268,284.15E

PT. STA. 156+34.90

8" W/CHERRY

407,621.81N 2,268,518.41E

+69.22 45.98' RT.

STA. 158+87.87 S.R. 241
STA. 4+44.97 8TH STREET S.W.

EXIST. R/W

407,621.27N 2,268,538.42E

+89.23 46.41' RT.

PT. OUT LOT 291

CITY OF MASSILLON CORPORATION LINE

STARK COUNTY
PERRY TWP.
SECTION 18
TION, R9W

STA. 3+74.68 8TH STREET S.W.
STA. 7+85.58 PENNOCK AVE. S.W.

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

20 0 20 40
Scale feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 155+00 TO STA. 159+00

PID No 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

296/303

STARK COUNTY

R/W 31/38

THERESA ROSE Mc LAUGHLIN
(40 WD) T.B.A 11,873.8 S.F.
P.R.O. ———
CONT. 11,873.8 S.F.

EDEN HOMES, INC.
(42 WD) T.B.A 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

CLIFFORD L. KELLER JR. & DIANNE M. KELLER
(44 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

CLARENCE O. CALHOUN & JUANITA I. CALHOUN
(46 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

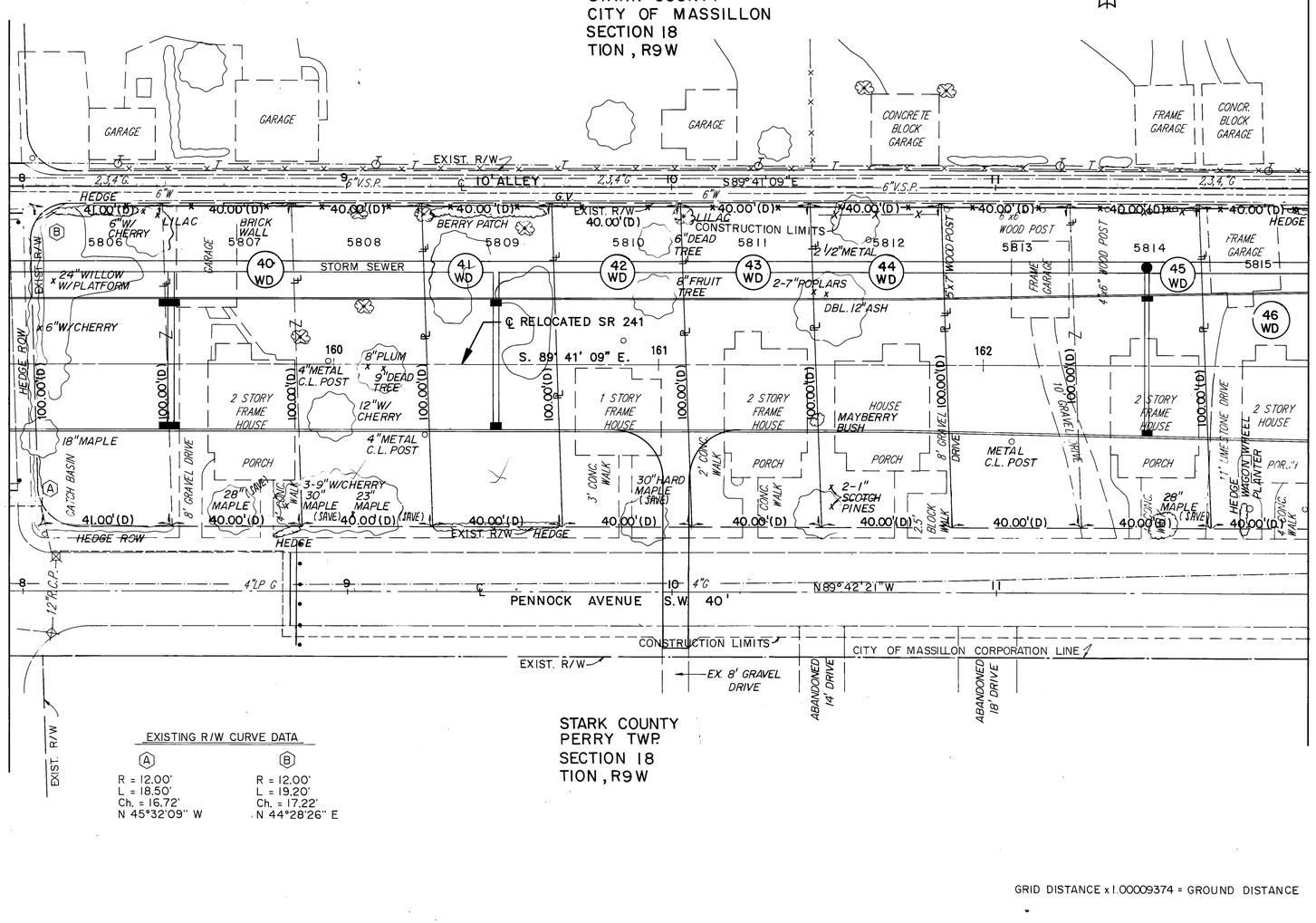
ANNA M. GUGOV, AKA ANNA K. GUGOV, AKA ANNA M. GUGOFF
(41 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

JOHN U. GRUNDER & MILDRED M. GRUNDER
(43 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

JOHN U. GRUNDER & MILDRED M. GRUNDER
(45 WD) T.B.A. 8,000 S.F.
P.R.O. ———
CONT. 8,000 S.F.

BUILDINGS DEMOLISHED
PARCEL No. 40 - 2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 42 - 1 STY. FRM. HSE.
PARCEL No. 43 - 2 STY. FRM. HSE.
PARCEL No. 44 - 2 STY. FRM. HSE.
PARCEL No. 45 - 2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 46 - 2 STY. FRM. HSE. FRAME GARAGE

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION, R9W



STARK COUNTY
PERRY TWP.
SECTION 18
TION, R9W

EXISTING R/W CURVE DATA

(A)	(B)
R = 12.00'	R = 12.00'
L = 18.50'	L = 19.20'
Ch. = 16.72'	Ch. = 17.22'
N 45°32'09" W	N 44°28'26" E

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 20 0 20 40 feet

REV.	DATE
COMPLETION DATE:	

RIGHT-OF-WAY STA. 159+00 TO STA. 163+00

STATE ROUTE 241

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/30	STA-241-4.22	OHIO	297/303
CHKD. BY ___ DATE ___		FHWA REGION 5	

STARK COUNTY

R/W 32/38

CLARENCE O. CALHOUN & JUANITA I. CALHOUN
(46 WD) SEE SHEET 31

ALICE I. NEISWONGER
(48 WD) T.B.A. 4,000 S.F.
P.R.O. ____
CONT. 4,000 S.F.

JOHN J. SHULOK & THOMAS A. SHULOK
(50 WD) T.B.A. 4,000 S.F.
P.R.O. ____
CONT. 4,000 S.F.

GEORGE W. BROWN & DIANA M. BROWN
(52 WD) T.B.A. 7,773.8 S.F.
P.R.O. ____
CONT. 7,773.8 S.F.

JAMES E. MOORE & NANCY D. MOORE
(53 WD) SEE SHEET 33

BONKS PROPERTIES, INC.
(79 T) T.B.A. 1,466 S.F.

MARGARET A. CULBERTSON
(47 WD) T.B.A. 4,000 S.F.
P.R.O. ____
CONT. 4,000 S.F.

ROSE GALOB, MATHEW GALOB JR. AKA. MAT GALOB JR.
(49 WD) T.B.A. 8,000 S.F.
P.R.O. ____
CONT. 8,000 S.F.

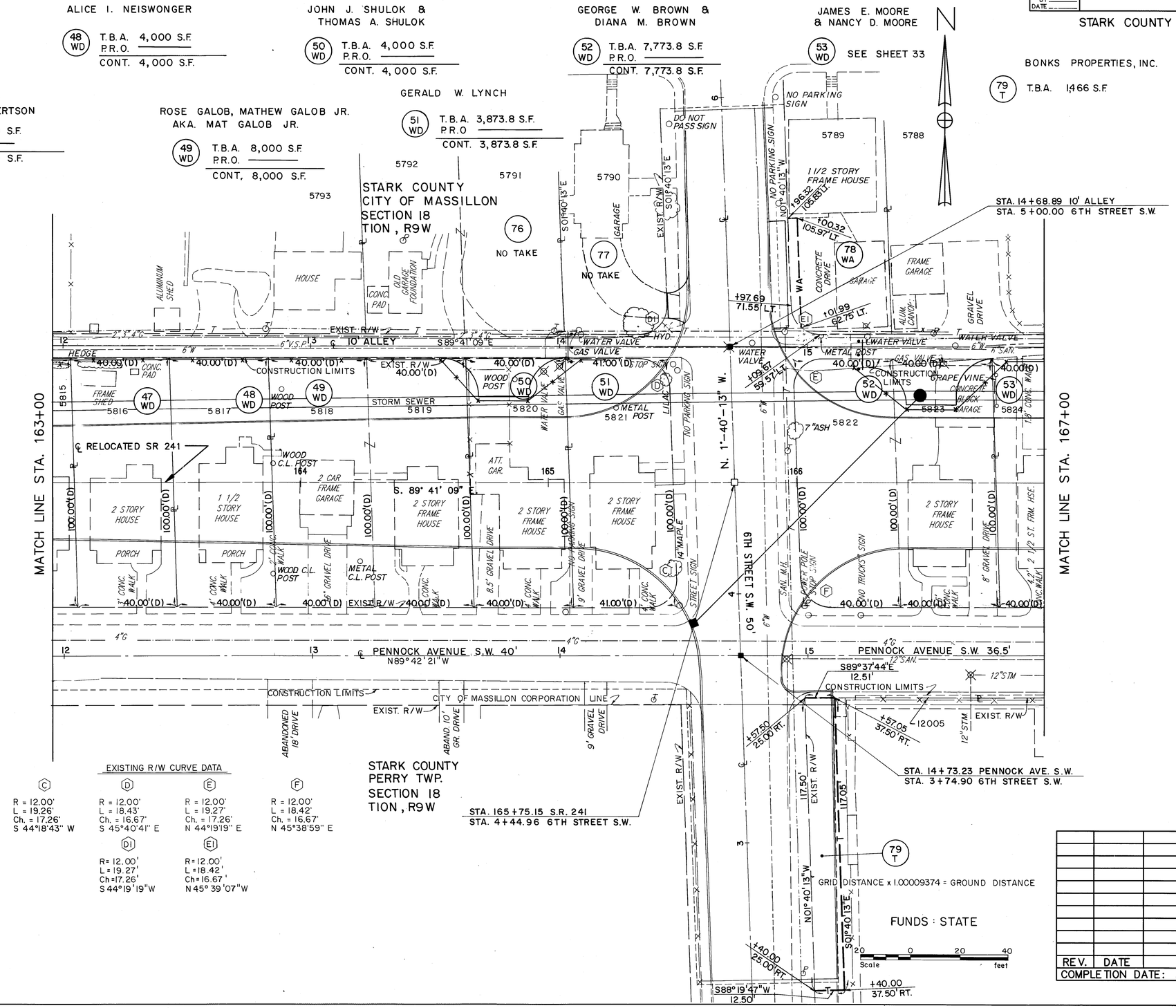
GERALD W. LYNCH
(51 WD) T.B.A. 3,873.8 S.F.
P.R.O. ____
CONT. 3,873.8 S.F.

NANCY L. DEL VECCHIO
(76) NO TAKE

CHRIST SMARDGEFF
(77 T) NO TAKE

YVONNE BOWE
(78 WA) T.B.A. 162 S.F

BUILDINGS DEMOLISHED
PARCEL No. 47 - 2 STY. FRM. HSE. SHED
PARCEL No. 48 - 1-1/2 STY. FRM. HSE.
PARCEL No. 49 - 2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 50 - 2 STY. FRM. HSE.
PARCEL No. 51 - 2 STY. FRM. HSE.
PARCEL No. 52 - 2 STY. FRM. HSE. CONC. BLOCK GARAGE



EXISTING R/W CURVE DATA

(C)	(D)	(E)	(F)
R = 12.00'	R = 12.00'	R = 12.00'	R = 12.00'
L = 19.26'	L = 18.43'	L = 19.27'	L = 18.42'
Ch. = 17.26'	Ch. = 16.67'	Ch. = 17.26'	Ch. = 16.67'
S 44°18'43" W	S 45°40'41" E	N 44°19'19" E	N 45°38'59" E

(D1) R = 12.00' L = 19.27' Ch = 17.26' S 44°19'19" W

(E1) R = 12.00' L = 18.42' Ch = 16.67' N 45°39'07" W

REV.	DATE
COMPLETION DATE:	

STATE ROUTE 241

RIGHT-OF-WAY STA. 163+00 TO STA. 167+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO	298 / 303
CHKD. BY DATE		FHWA REGION 5	

STARK COUNTY

R/W 33 / 38

JAMES E. MOORE
& NANCY D. MOORE
(53 WD) T.B.A. 8,000 S.F.
P.R.O. ———
CONT. 8,000 S.F.

PATRICIA A. DAVIS
(55 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

CHARLES ODNOOR
& MARY ODNOOR
(57 WD) T.B.A. 12,000 S.F.
P.R.O. ———
CONT. 12,000 S.F.

EARNEST T. PARIS
(59 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

FREDERICK D. CROFT
(54 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

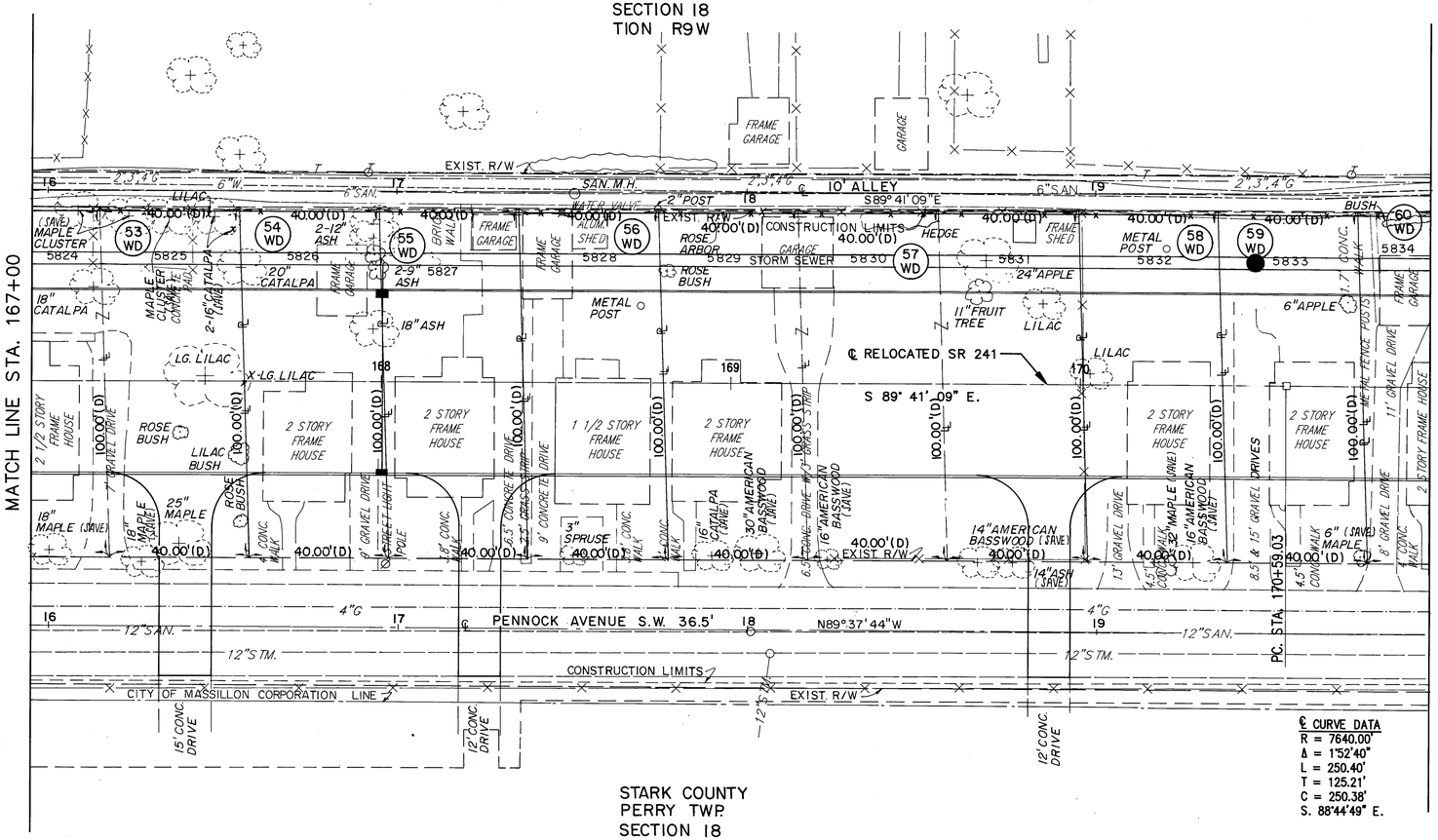
AUDRA P. DOTSON
(56 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

SAMUEL R. SPICOCCHI
& BONNIE L. SPICOCCHI
(58 WD) T.B.A. 4,000 S.F.
P.R.O. ———
CONT. 4,000 S.F.

HELEN DIMITROFF
(60 WD) SEE SHEET 34

BUILDINGS DEMOLISHED
PARCEL No. 53 - 2-1/2 STY. FRM. HSE.
PARCEL No. 54 - 2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 55 - 2 STY. FRM. HSE. FRAME GARAGE
PARCEL No. 56 - 1-1/2 STY. FRM. HSE. FRAME GARAGE SHED
PARCEL No. 57 - 2 STY. FRM. HSE. FRAME GARAGE SHED
PARCEL No. 58 - 2 STY. FRM. HSE.
PARCEL No. 59 - 2 STY. FRM. HSE.
PARCEL No. 60 - 2 STY. FRM. HSE. FRAME GARAGE

STARK COUNTY
CITY OF MASSILLON
SECTION 18
TION , R9W



STARK COUNTY
PERRY TWP.
SECTION 18
TION , R9W

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 20 0 20 40 feet

REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 167+00 TO STA. 171+00

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO	299/303
CHKD. BY ____ DATE ____		FHWA REGION 5	

STARK COUNTY

R/W 34/38

HELEN DIMITROFF
(60 WD) T.B.A. 4,000 S.F.
P.R.O. ____
CONT. 4,000 S.F.

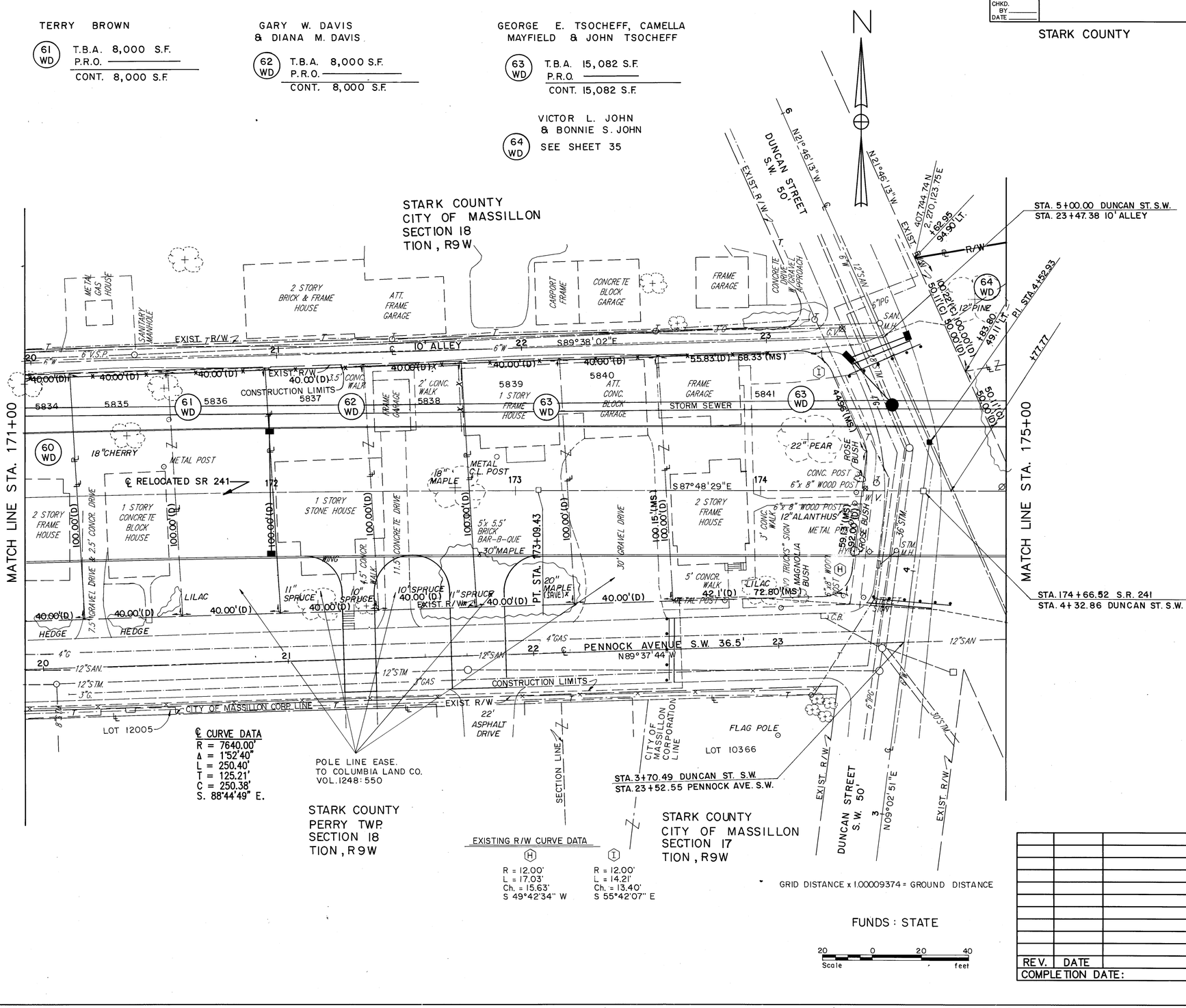
TERRY BROWN
(61 WD) T.B.A. 8,000 S.F.
P.R.O. ____
CONT. 8,000 S.F.

GARY W. DAVIS & DIANA M. DAVIS
(62 WD) T.B.A. 8,000 S.F.
P.R.O. ____
CONT. 8,000 S.F.

GEORGE E. TSOCHEFF, CAMELLA MAYFIELD & JOHN TSOCHEFF
(63 WD) T.B.A. 15,082 S.F.
P.R.O. ____
CONT. 15,082 S.F.

VICTOR L. JOHN & BONNIE S. JOHN
(64 WD) SEE SHEET 35

BUILDINGS DEMOLISHED
PARCEL No. 61 - 1 STY. CONC. BLOCK HSE.
PARCEL No. 62 - 1 STY. STONE HSE. FRAME GARAGE
PARCEL No. 63 - 1 STY. FRM. HSE. CONC. BLOCK GARAGE 2 STY. FRM. HSE. FRAME GARAGE



REV.	DATE	
COMPLETION DATE:		

RIGHT-OF-WAY STA. 171+00 TO STA. 175+00

STATE ROUTE 241

PID No. 4108
STATE JOB No. 041630

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

STARK COUNTY

300/303

R/W 35/38

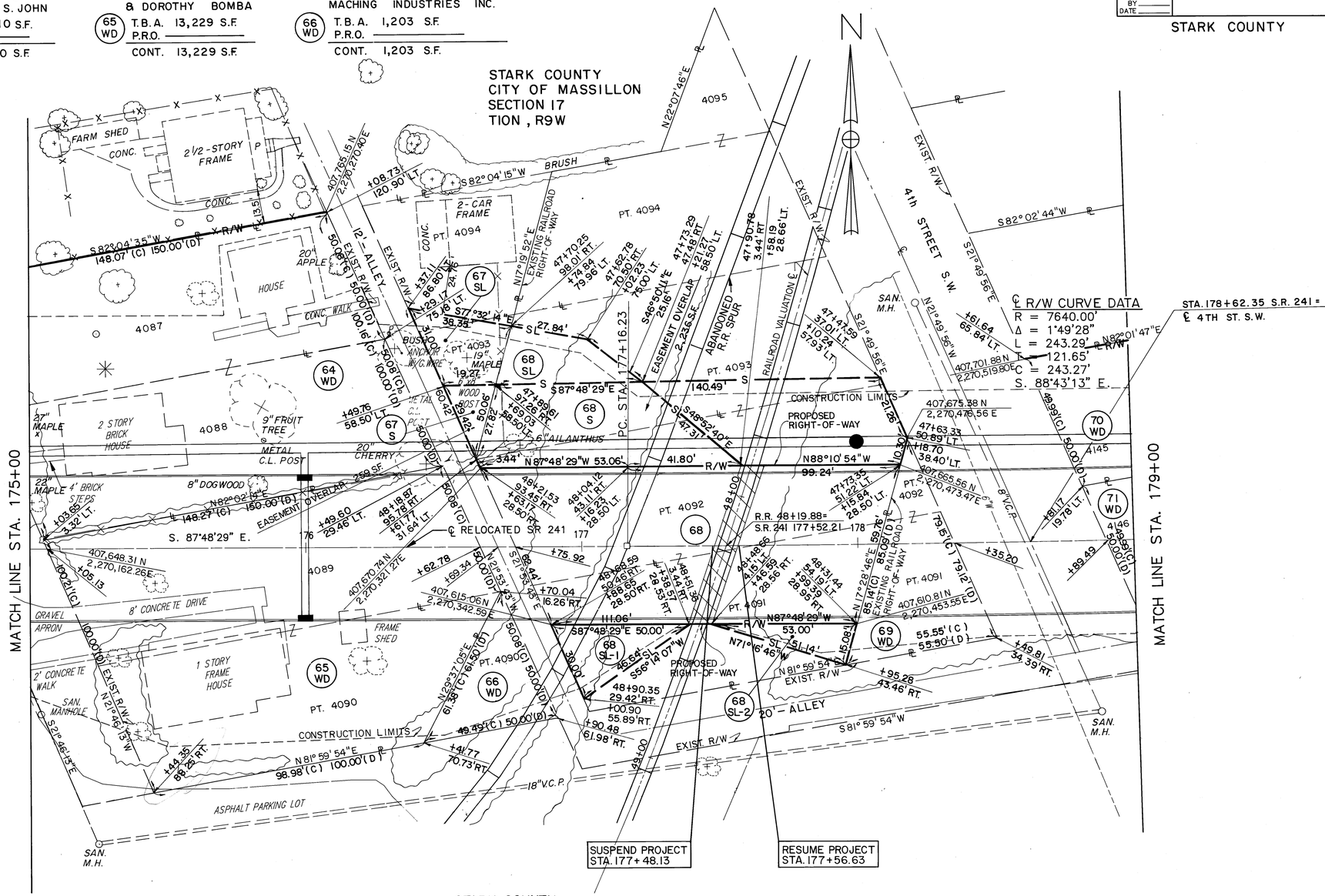
64 WD — VICTOR L. JOHN & BONNIE S. JOHN
T.B.A. 14,410 S.F.
P.R.O. ———
CONT. 14,410 S.F.

65 WD — LEONARD BOMBA & DOROTHY BOMBA
T.B.A. 13,229 S.F.
P.R.O. ———
CONT. 13,229 S.F.

66 WD — NATIONAL FEEDSCREW & MACHING INDUSTRIES INC.
T.B.A. 1,203 S.F.
P.R.O. ———
CONT. 1,203 S.F.

STARK COUNTY
CITY OF MASSILLON
SECTION 17
TION, R9W

BUILDINGS DEMOLISHED
PARCEL No. 64 - STY. BRICK HSE.
PARCEL No. 65 - 1 STY. FRM. HSE. SHED



CONSOLIDATED RAILROAD CO.

68 — T.B.A. 7,533 S.F.

68 S — T.B.A. 4,461 S.F.

68 SL — T.B.A. 2,975 S.F.

68 SL-1 — T.B.A. 685 S.F.

68 SL-2 — T.B.A. 386 S.F.

VICTOR L. JOHN & BONNIE S. JOHN

67 S — T.B.A. 259 S.F.

67 SL — T.B.A. 957 S.F.

STARK COUNTY
CITY OF MASSILLON
SECTION 17
TION, R9W

VICTOR L JOHN & BONNIE S. JOHN
69 WD — T.B.A. 2,135 S.F.
P.R.O. ———
CONT. 2,135 S.F.

RUBY M. BARNES
70 WD — SEE SHEET 36

THE BANK OF MT. EATON
71 WD — SEE SHEET 36

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 20 0 20 40 feet

REV.	DATE
COMPLETION DATE:	

STATE ROUTE 241

RIGHT-OF-WAY STA. 175+00 TO STA. 179+00

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO	301 303
CHKD. BY DATE		FHWA REGION 5	R/W 36 38

PID No. 4108
STATE JOB No. 041630

STARK COUNTY

STARK COUNTY
CITY OF MASSILLON
SECTION 17
TION, R9W

MATCH LINE STA. 7+00

MATCH LINE STA. 3+50

MATCH LINE STA. 179+00

MATCH LINE STA. 183+00

℄ CURVE DATA
R = 7640.00'
Δ = 1°49'28"
L = 243.29'
T = 121.65'
C = 243.27'
S. 88°43'13" E.

℄ RELOCATED SR 241

END PROJECT STA. 183+01.95

STA. 182+37.86 S.R.241
STA. 5+00.00 CLEVELAND

CLEVELAND STREET S.W. 50'

12'- ALLEY

20'- ALLEY

CONSTRUCTION LIMITS

EXIST. R/W

GRAVEL PARKING LOT

ASPHALT PARKING LOT

OUT LOT 294

SUB-STATION

BUILDINGS DEMOLISHED
PARCEL No. 72 - 2 STY. BRICK HSE.
2 STY. FRM. HSE.

THOMAS H. BERBARI, JOHN BERBARI, GEORGE BERBARI, ANGELINE RASHID, JULIET HABIB, JEANNETTE ELUM, ROSEMARIE GEORGE, ADELE MOORE & YVONNE JESSER

(81 T) NO TAKE

RUBY M. BARNES
(70 WD) T.B.A. 7,500 S.F.
P.R.O. ———
CONT. 7,500 S.F.

THE BANK OF MT. EATON
(71 WD) T.B.A. 7,500 S.F.
P.R.O. ———
CONT. 7,500 S.F.

HARRY N. ORPHAN
(72 WD) T.B.A. 10,236 S.F.
P.R.O. ———
CONT. 10,236 S.F.

REPUBLIC ENGINEERED STEELS INC.
(73 WD) T.B.A. 7,088 S.F.
P.R.O. ———
CONT. 7,088 S.F.

DESSIE SCOTT AND AGNES HEWITT
(74 T) T.B.A. 947 S.F.

REPUBLIC ENGINEERED STEELS INC.
(75 T) T.B.A. 3,296 S.F.
(75 S) T.B.A. 10,310 S.F.

TRUSTEES OF THE CHURCH OF GOD
(80 T) NO TAKE

BESSIE I. STACKHOUSE
(82 T) NO TAKE

LUELLA DANZY
(83 T) NO TAKE

ANNA CUZA
(84 T) NO TAKE

GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

Scale 20 0 20 40 feet

REV.	DATE
COMPLETION DATE:	

STATE ROUTE 241

RIGHT-OF-WAY STA. 179+00 TO STA. 183+00

PID No. 4108
STATE JOB No. 041630

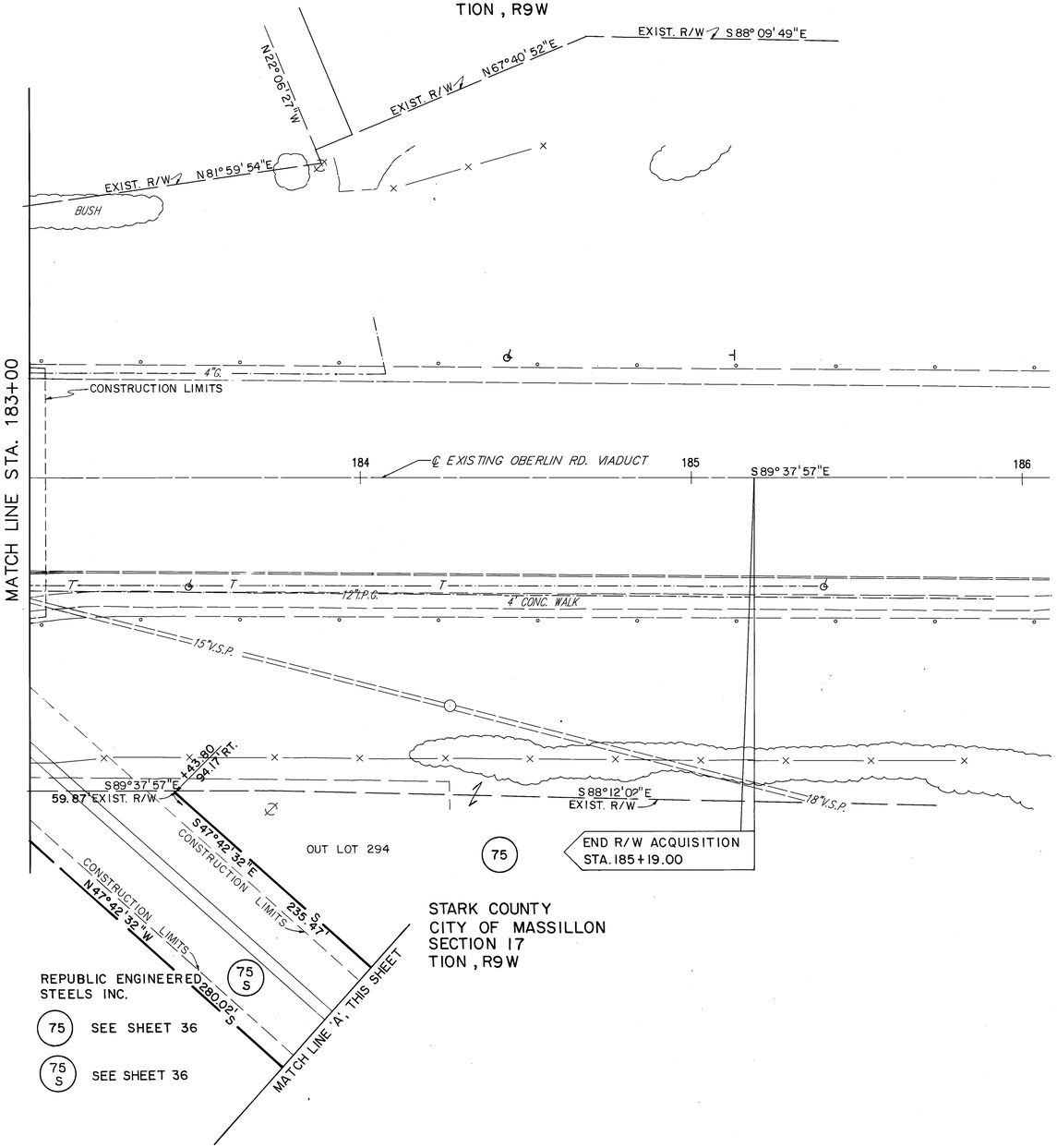
CALC. BY C.H.B DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

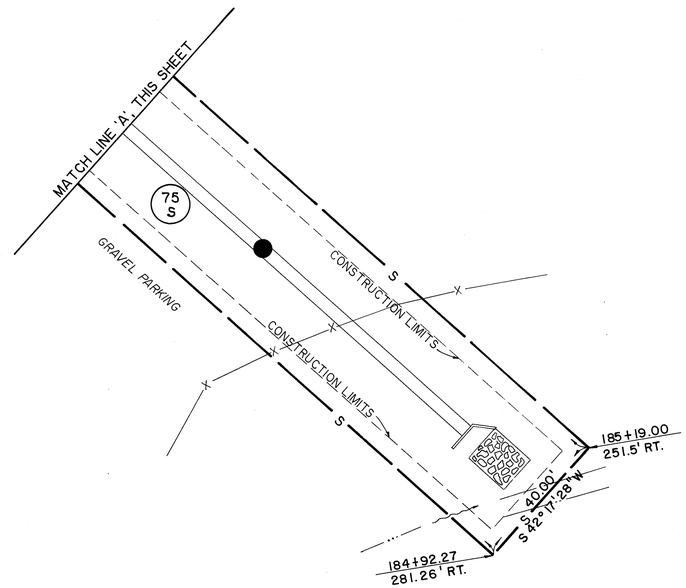
302 / 303

STARK COUNTY

R/W 37 / 38

STARK COUNTY
CITY OF MASSILLON
SECTION 17
TION , R9W





GRID DISTANCE x 1.00009374 = GROUND DISTANCE

FUNDS : STATE

20 0 20 40
Scale feet

REV.	DATE	
COMPLETION DATE:		

STATE ROUTE 241

RIGHT-OF-WAY STA. 183+00 TO STA. 186+00

PID No. 4108
STATE JOB No. 041630

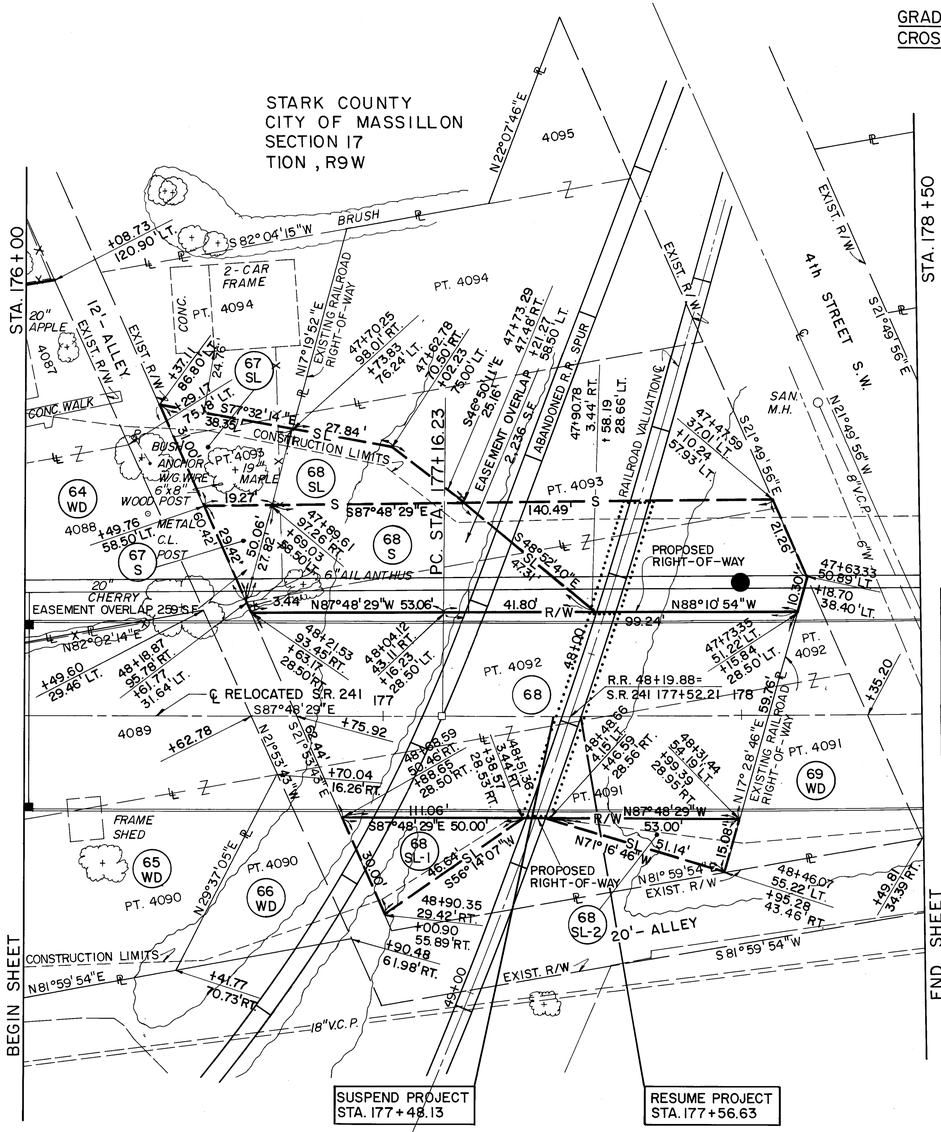
GRADE CROSSING

CALC. BY C.H.B. DATE 5/90	STA-241-4.22	OHIO
CHKD. BY DATE		FHWA REGION 5

303
303

STARK COUNTY

R/W 38
38



STARK COUNTY
CITY OF MASSILLON
SECTION 17
TION, R9W

AREA OF DUAL USAGE

FUNDS : STATE

Scale 20 0 20 40 feet

℄ R/W CURVE DATA
R = 7640.06'
Δ = 1°49'28"
L = 243.29'
T = 121.65'
C = 243.27'
S 88°43'13" E

PARCEL No.	GROSS AREA	P.R.O.	AREA OF DUAL USAGE		NET TAKE AREAS	
			GROSS	P.R.O.	DUAL USAGE AREA	OUTSIDE DUAL USAGE AREA
68	7,533	———	483 S.F.	———	483 S.F.	7,050 S.F.
68S	4,461	———	249 S.F.	———	249 S.F.	4,212 S.F.
68SL	2,975	———	———	———	———	2,975 S.F.
68SL-1	685	———	———	———	———	685 S.F.
68SL-2	386	———	———	———	———	386 S.F.

NOTE : ALL AREAS IN SQ. FT.

NOTE :
RAILROAD VALUATION CENTERLINE AND STATIONING SHOWN IS BEST THAT CAN BE DETERMINED USING MAP V.1 OHIO/61.1 STATION/OFFSET VALUES SHOWN SHOULD BE CONSIDERED TO BE +/-.

REV.	DATE	
COMPLETION DATE :		

STATE ROUTE 241

RIGHT-OF-WAY STA. 176+00 TO STA. 50