

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CTH-II ~~STH 150~~ - USH 10 (REC TRAIL)

(WEST SIDE ARTERIAL)

CTH CB

WINNEBAGO COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4619-02-71		

REC TRAIL
1996 CONSTRUCTION GRADING AS-BUILT
PRIME CONTRACTOR: WONDRA EXCAVATING
CONST. MANAGEMENT: WisDOT #3 & OMNI ASSOC.

INDEX OF SHEETS

- Sheet No. 1 Title
- Sheet No. 2-2.25 Typical Sections and Details (Includes Erosion Control Plan)
- Sheet No. 3A-3E Estimate of Quantities
- Sheet No. 3A-3E Miscellaneous Quantities
- Sheet No. Right of Way Plat
- Sheet No. 5-5.7 Plan and Profile
- Sheet No. Standard Detail Drawings
- Sheet No. Sign Plates
- Sheet No. Structure Plans
- Sheet No. 9-9.1 Computer Earthwork Data
- Sheet No. 9.2-9.19 Cross Sections

TOTAL SHEETS =

AS BUILT PLAN NO.

SUPERVISOR H. B. ENKE
RESIDENT MARIE DOBSON
CONTRACTOR WONDRA EXC. INC.
COMPLETED 6-25-97

STATE PROJECT NUMBER
4619-02-7178

END PROJECT
STA 371+32.86



EXCEPTION TO NET
LENGTH OF CENTERLINE
STA 335+47.81 TO
STA 336+79.06

BEGIN PROJECT
STA 308+80.00

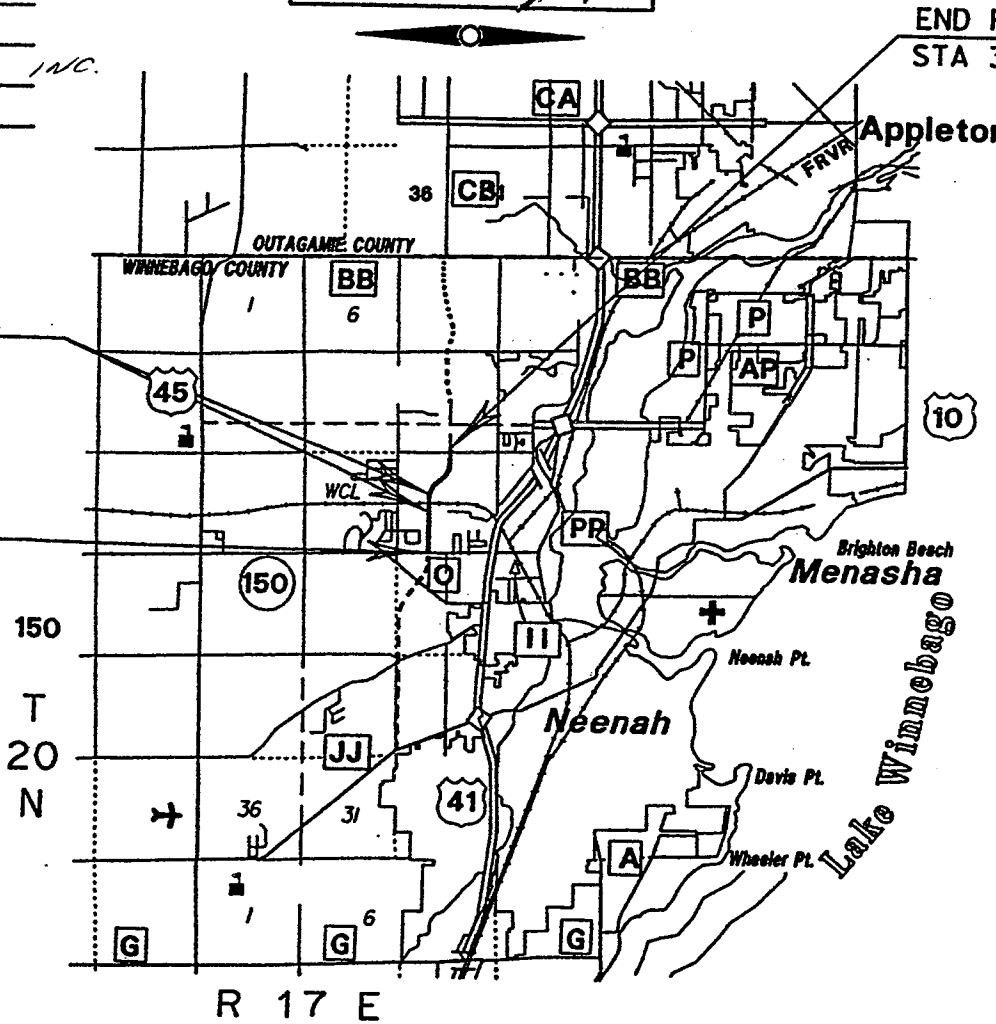
DESIGN DESIGNATION

- A.D.T. (1995) = 14,100
- A.D.T. (2015) = 20,600
- D.H.V. (2015) = 1566
- D. = 55-45Z
- T. = 9.5Z
- DESIGN SPEED = 45 MPH
- ESALS = 6,978,800

CONVENTIONAL SIGNS

- COUNTY LINE
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SURVEY LINE
- SLOPE INTERCEPT
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- CULVERT (Profile View)

- COMBUSTIBLE FLUIDS
- UNDERGROUND UTILITIES
 - GAS
 - ELECTRIC
 - TELEPHONE OR TELEGRAPH
 - SERVICE PEDESTAL
 - CABLE MARKER
- POWER POLE
- TELEPHONE POLE
- RAILROAD
- MARSH AREA
- WOODED OR SHRUB AREA



LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.159 MI.

AS BUILT PLAN NO.

SUPERVISOR H. B. ENKE
RESIDENT MARIE DOBSON
CONTRACTOR WONDRA EXC. INC.
COMPLETED 6-25-97

APPROVED FOR
WINNEBAGO COUNTY

1-3-96
DATE

Ray Mead
HIGHWAY COMMISSIONER

PLANS PREPARED
BY
MEAD & HUNT
CONSULTING ENGINEERS
GREEN BAY, WISCONSIN



12-96
DATE

Thomas Janssen
CONSULTING ENGINEER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

- PREPARED BY
- Surveyor MEAD & HUNT, INC.
 - Designer MEAD & HUNT, INC.
 - District Examiner M. W. DOBSON
 - District Supervisor J. C. LAMERS
 - Proj. Dev. Engineer
 - C.O. Examiner

APPROVED FOR DISTRICT OFFICE

DATE: _____ (Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN

DATE: _____ (Signature)

ELEVATIONS SHOWN ON THIS PLAN ARE
REFERENCED TO U.S.G.S. DATUM.

ALL COORDINATES SHOWN ON THIS PLAN ARE
REFERENCED TO THE WISCONSIN COORDINATE
SYSTEM, SOUTHERN ZONE.

WINNEBAGO COUNTY

4619-02-71

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

BEARINGS ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL DISTANCES ARE GROUND DISTANCES.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

CURB AND GUTTER RADII ARE SHOWN TO THE EDGE OF PAVEMENT

LIMITED EASEMENTS FOR PRIVATE ENTRANCE AND DRAINAGE CONSTRUCTION HAVE BEEN OBTAINED AND THESE RIGHTS HAVE BEEN EXTENDED TO THE CONTRACTOR.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL TO VARIOUS ITEMS.

FINAL ADJUSTMENT OF MANHOLE AND INLET COVERS WILL PERFORMED BY OTHERS UNDER THE 1997 PAVING CONTRACT.

EROSION CONTROL FEATURES AS SHOWN ON THE EROSION CONTROL PLAN ARE SUGGESTED LOCATIONS. THEIR EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UPON COMPLETION OF EACH INLET INSTALLATION, EROSION CONTROL FILTER BAG INLET PROTECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON THE PLAN TO MINIMIZE SEDIMENTATION IN THE INLET.

ALL SILT FENCE REQUIRED FOR THIS PROJECT SHALL MEET THE REQUIREMENTS OF SILT FENCE FOR SILTY SOILS.

THE WETLANDS SHOWN ON THE PLAN REPRESENT THOSE DELINEATED BY REPRESENTATIVES OF WINNEBAGO COUNTY AND THE WDNR. THE LIMITS SHOWN ARE APPROXIMATE. THESE MAY OR MAY NOT REPRESENT ALL OF THE WETLAND AREAS ALONG THE PROJECT CORRIDOR.

WETLAND AREAS OUTSIDE THE GRADING LIMITS SHALL BE AVOIDED DURING CONSTRUCTION ACTIVITIES UNDER THIS CONTRACT. NO MATERIALS SHALL BE STOCKPILED IN WETLAND AREAS OUTSIDE THE GRADING LIMITS.

THE ITEM "REMOVING OLD CULVERTS" WILL PERTAIN ONLY TO THOSE CULVERTS ENUMERATED IN THE SUMMARY OF MISCELLANEOUS QUANTITIES. ALL OTHER CULVERTS TO BE REMOVED WILL BE INCIDENTAL TO COMMON EXCAVATION.

EXCAVATION BELOW SUBGRADE (E.B.S.) AS SHOWN ON THE PLAN SHALL BE MEASURED AND PAID FOR AS COMMON EXCAVATION. THE EXACT LIMITS AND LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW EXCAVATION OR COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPLETE THE VOLUME OF MATERIAL REQUIRED IS 1.15 FOR BORROW EXCAVATION AND 1.30 FOR COMMON EXCAVATION.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE. THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE SUBGRADE SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

DISTURBED AREAS THAT WERE PREVIOUSLY LAWNS SHALL BE SEEDED WITH SEED MIXTURE NO. 40. SEED MIXTURE NO. 30 SHALL BE USED ON ALL REMAINING CUT AND FILL SLOPES.

STANDARD DETAIL DRAWINGS

8A5-11a	INLET COVERS
8A5-11b	INLET COVERS
8A5-11d	INLET AND MANHOLE COVERS
8B6-3	MANHOLES TYPE 1
8B7-3	MANHOLES TYPE 2 & 3
8C1-5	INLETS TYPE 1,2,3 & 4
8C5-2	INLETS TYPE 8,9,10 AND 11
8E9-4	SILT FENCE
8F1-11	APRON ENDWALLS FOR CULVERT PIPE
8F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
8F4-5	JOINT TIES FOR CONCRETE PIPE
9A1-9a	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B", "C" AND "D"
9A1-9b	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A" AND PASSING LANE
15A1-6	MARKER POST FOR RIGHT OF WAY
15C2-3	BARRICADES AND SIGNS FOR ROAD CLOSURES
15C12-2	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
16A1-5	LANDMARK REFERENCE MONUMENTS AND COVERS

UTILITIES

WISCONSIN ELECTRIC POWER COMPANY
ATTN: JOHN THIEL
P.O. BOX 1699
APPLETON, WI 54913-1699
(414) 730-4554

CABLEVISION
ATTN: BRUCE MORRISSEY
1001 KENNEDY AVENUE
KIMBERLY, WI 54136
(414) 738-3160

WISCONSIN NATURAL GAS COMPANY
ATTN: DAVE BROOKS
800 S. LYNNDALE DRIVE
APPLETON, WI 54912
(414) 735-8357

ANR PIPELINE COMPANY
ATTN: JERRY BINOTTO
W3925 PIPELINE LANE
P.O. BOX 145
EDEN, WI 53019
(414) 477-4211

AMERTECH
ATTN: JOHN STUMPF
221 W. WASHINGTON ST., 4TH FLOOR
APPLETON, WI 54911
(414) 735-3255

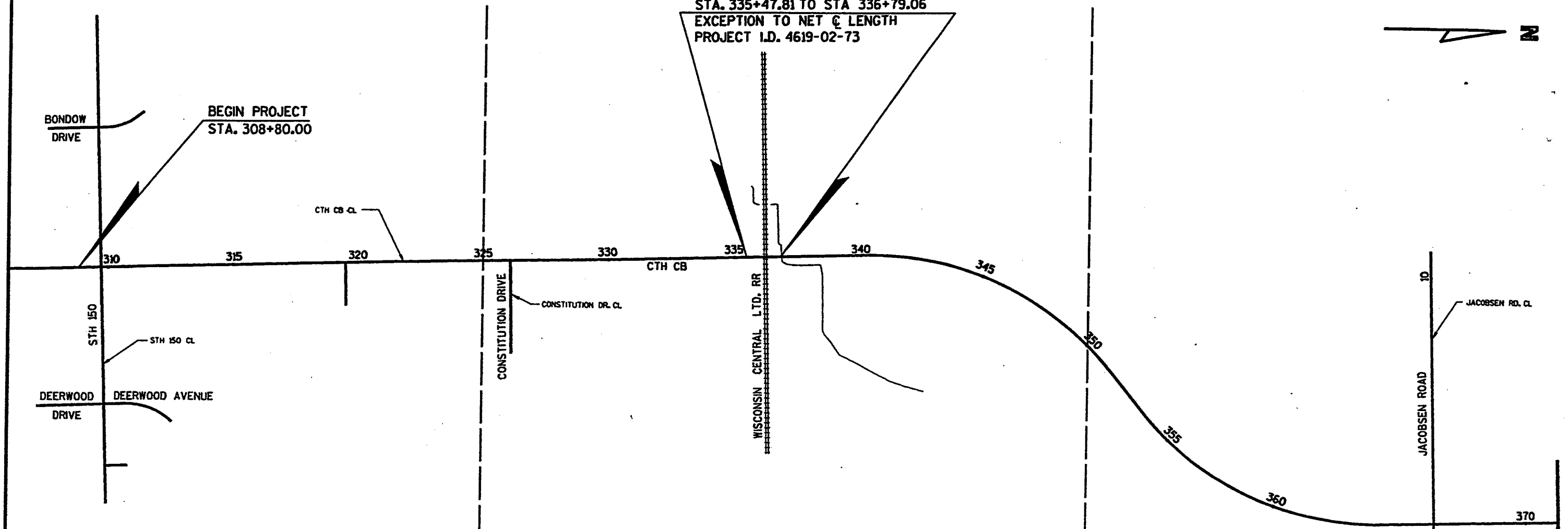
TOWN OF MENASHA
ATTN: STEVEN LAABES
SANITARY DISTRICT NO. 4
2340 AMERICAN DRIVE
NEENAH, WI 54956
(414) 739-5128

STANDARD ABBREVIATIONS

A	CENTRAL ANGLE OR DELTA
B	BUILDING
B.M.	BENCH MARK
C&G	CURB AND GUTTER
C.E.	COMMERCIAL ENTRANCE
CONC.	CONCRETE
CL	CENTERLINE
CMP	CORRUGATED METAL CULVERT PIPE
CSCP	CORRUGATED STEEL CULVERT PIPE
EOP	EDGE OF PAVEMENT
EXIST	EXISTING
F.E.	FIELD ENTRANCE
EL. OR ELEV.	ELEVATION
E.O.P.	EDGE OF PAVEMENT
e	EXTERNAL DISTANCE
H	HOUSE
L	LENGTH
LT.	LEFT
L.F.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MIN.	MINIMUM
NC	NORMAL CROWN
NB	NORTHBOUND
NTS.	NOT TO SCALE
PAVT	PAVEMENT
P.E.	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
R/W	RIGHT OF WAY
R	RADIUS
RL	REFERENCE LINE
RT.	RIGHT
REQ'D	REQUIRED
RCCP	REINFORCED CONCRETE CULVERT PIPE
REM.	REMOVE
RCHEP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
R.R.	RAILROAD
RO	RUNOUT
SB	SOUTHBOUND
SE	SUPERELEVATION
S.F. OR SQ. FT.	SQUARE FOOT
STA.	STATION
S.Y. OR SQ. YD.	SQUARE YARD
T	TANGENT
TYP.	TYPICAL
YD	YARD



STA. 335+47.81 TO STA 336+79.06
EXCEPTION TO NET & LENGTH
PROJECT I.D. 4619-02-73



PHASE II
STA. 308+80 TO 325+00

1. MAINLINE GRADING
2. STH 150* SUBGRADE WIDENING
3. INSTALL CULVERTS, INLETS, LEADS
4. PLACE CRUSHED AGGREGATE BASE COURSE ON STH 150*
5. TOPSOIL, FERTILIZE, SEED & MULCH

PHASE I
STA. 325+00 TO 350+00

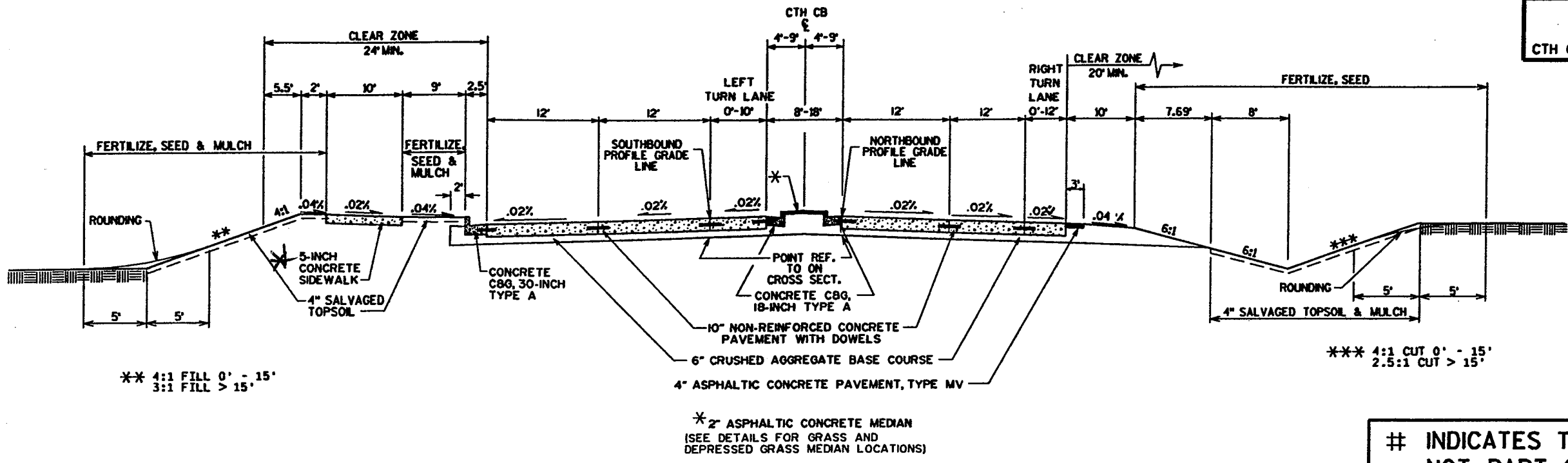
1. CONSTRUCT EMBANKMENT
2. INSTALL CULVERTS, INLETS, LEADS
3. TOPSOIL, FERTILIZE, SEED & MULCH

PHASE III
STA. 350+00 TO 371+32.86

1. MAINLINE GRADING
2. JACOBSEN ROAD* GRADING
3. INSTALL CULVERTS, INLETS, LEADS
4. PLACE CRUSHED AGGREGATE BASE COURSE ON JACOBSEN ROAD*
5. TOPSOIL, FERTILIZE, SEED & MULCH

END PROJECT
STA 371+32.86

*SEE TRAFFIC CONTROL STAGING PLAN



** 4:1 FILL 0' - 15'
 3:1 FILL > 15'

*** 4:1 CUT 0' - 15'
 2.5:1 CUT > 15'

* 2" ASPHALTIC CONCRETE MEDIAN
 (SEE DETAILS FOR GRASS AND
 DEPRESSED GRASS MEDIAN LOCATIONS)

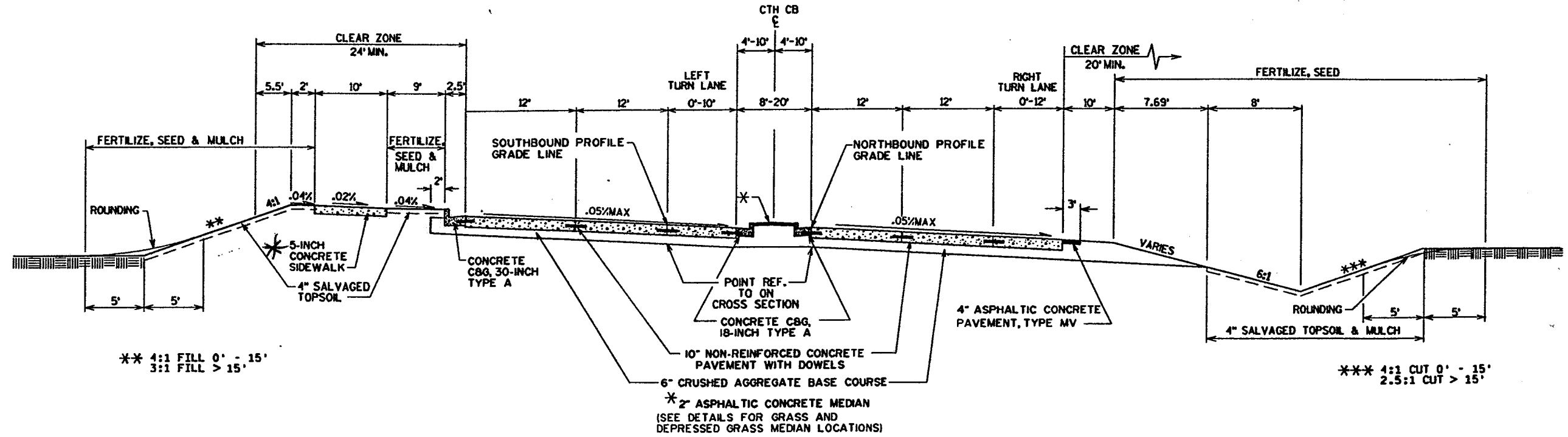
INDICATES THAT THIS ITEM IS
 NOT PART OF THIS CONTRACT

PROPOSED TYPICAL SECTION

CTH CB

STA. 308+80.00 TO STA. 338+73.50

* NOT A PART OF
 THIS PROJECT



** 4:1 FILL 0' - 15'
 3:1 FILL > 15'

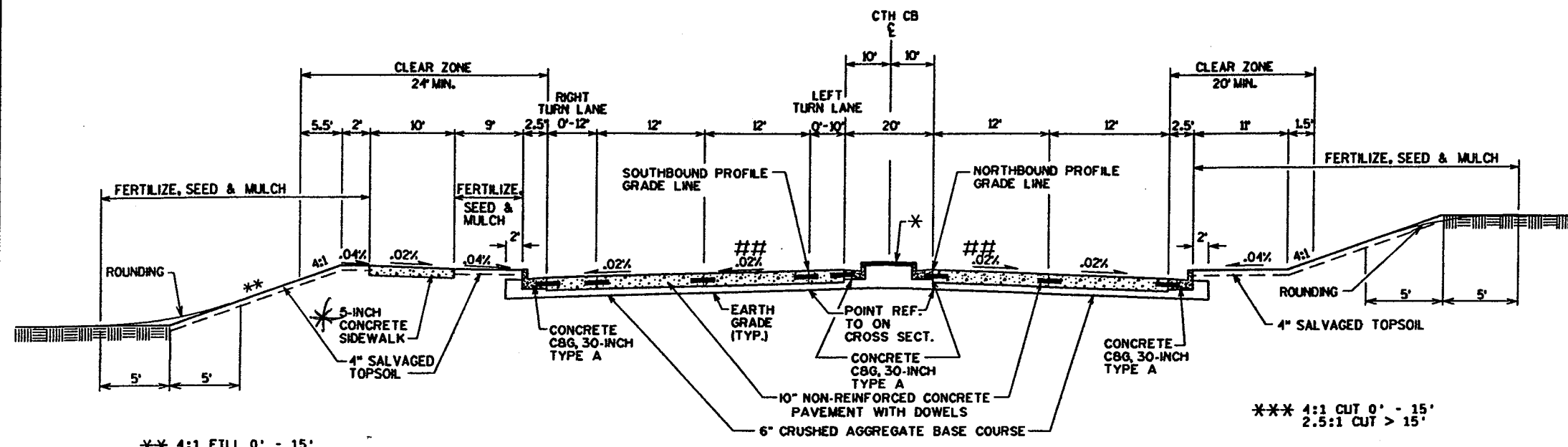
*** 4:1 CUT 0' - 15'
 2.5:1 CUT > 15'

* 2" ASPHALTIC CONCRETE MEDIAN
 (SEE DETAILS FOR GRASS AND
 DEPRESSED GRASS MEDIAN LOCATIONS)

PROPOSED TYPICAL SECTION (SUPERELEVATED)

CTH CB

STA. 338+73.50 TO STA. 365+82.40



INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT

** 4:1 FILL 0' - 15'
3:1 FILL > 15'

*** 4:1 CUT 0' - 15'
2.5:1 CUT > 15'

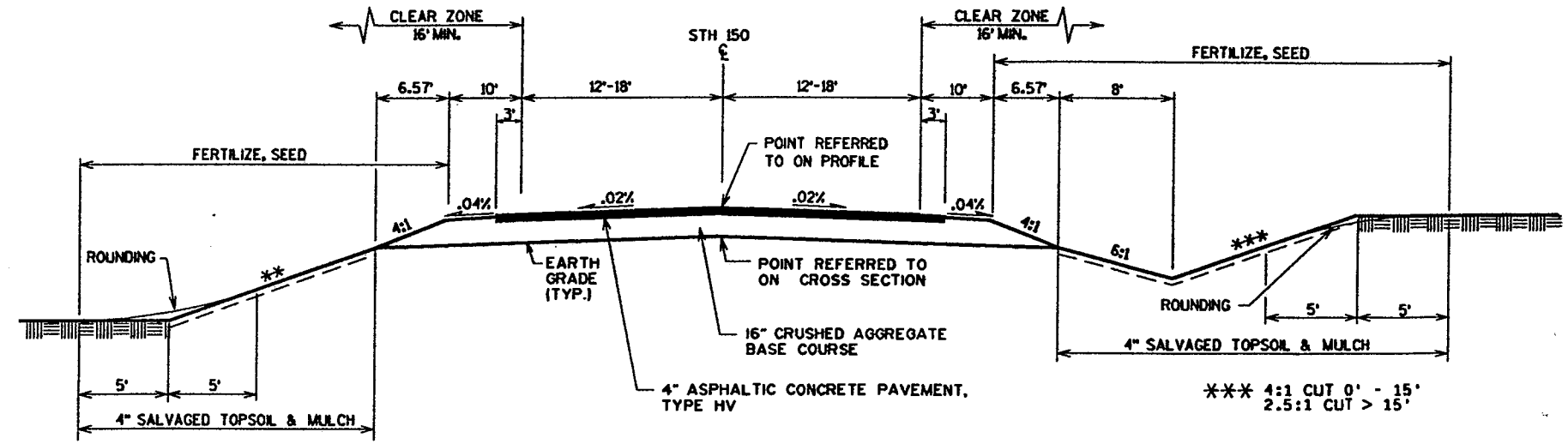
* NOT A PART OF THIS PROJECT

* 2" ASPHALTIC CONCRETE MEDIAN
(SEE DETAILS FOR GRASS AND DEPRESSED GRASS MEDIAN LOCATIONS)

TRANSITION TO REVERSED 0.02% SLOPE FROM STA 370+00.00 TO STA 371+32.86 MATCHING NORMAL CROWN SECTION ON PROJECT I.D. 1517-03-01

PROPOSED TYPICAL SECTION

CTH CB
STA. 365+82.40 TO STA. 371+32.86

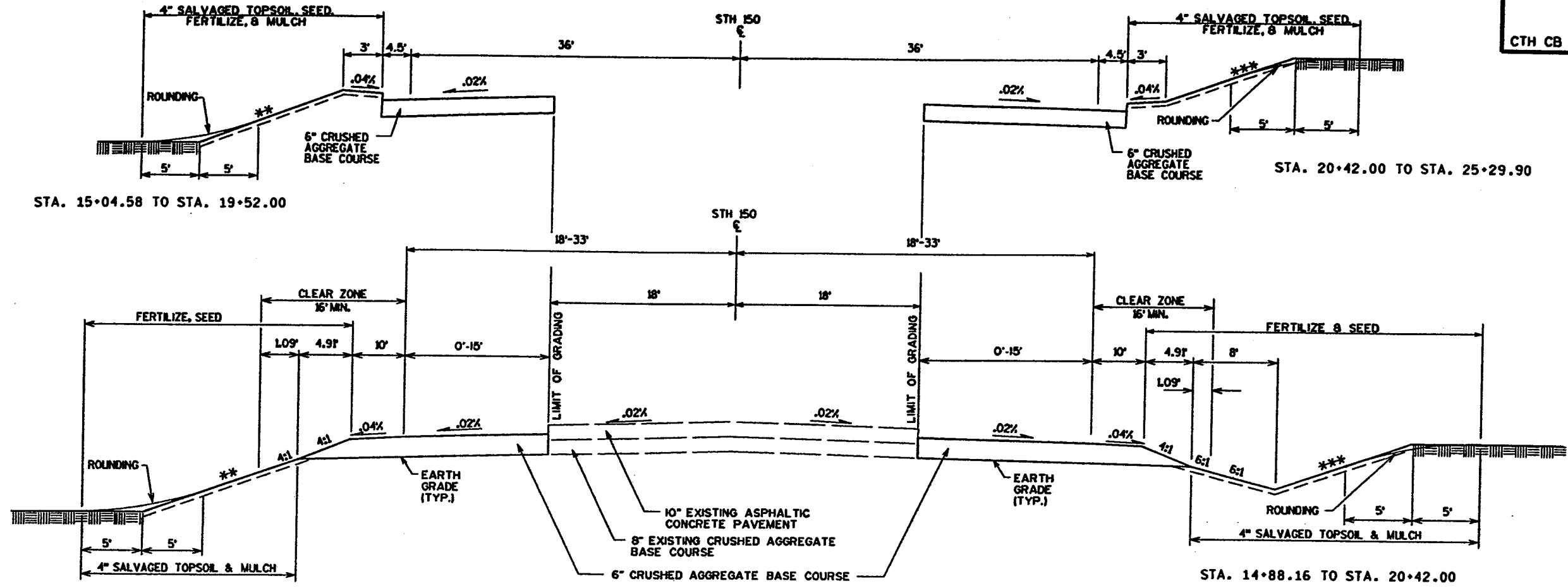


** 4:1 FILL 0' - 15'
3:1 FILL > 15'

*** 4:1 CUT 0' - 15'
2.5:1 CUT > 15'

PROPOSED TYPICAL SECTION - STH 150

S.T.H. 150
STA. 11+86.18 TO STA. 14+88.16
STA. 25+29.90 TO STA. 30+01.73



PROPOSED TYPICAL GRADING SECTION - STH 150

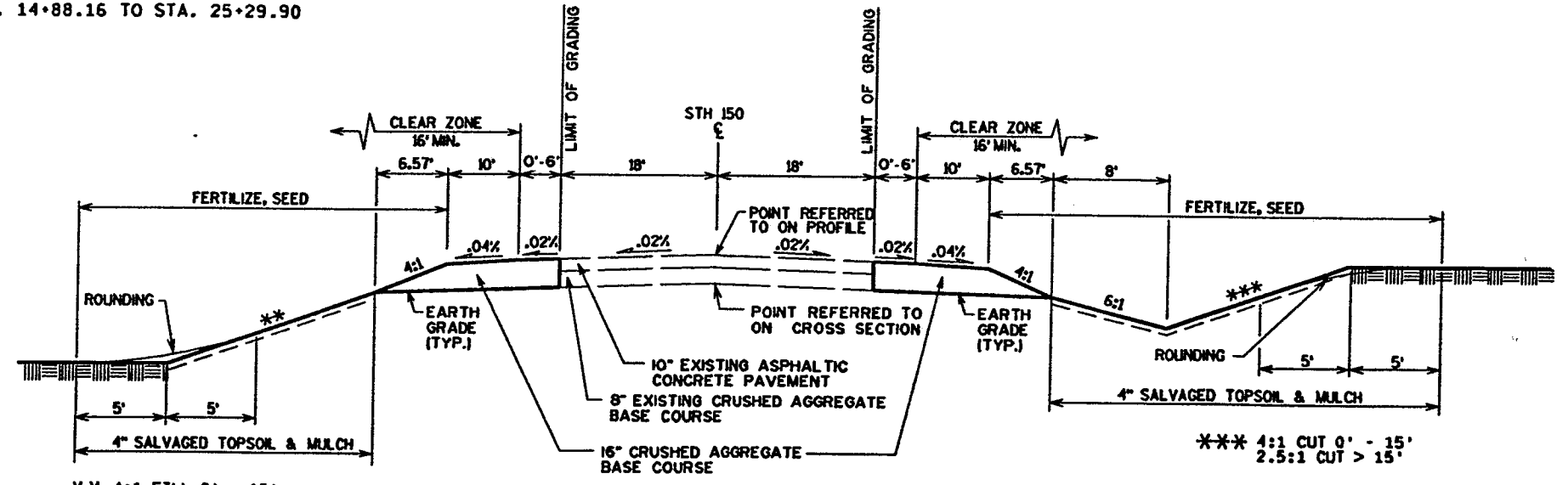
STA. 19+52.00 TO STA. 24+83.14

STA. 14+88.16 TO STA. 25+29.90

STA. 14+88.16 TO STA. 20+42.00

** 4:1 FILL 0' - 15'
3:1 FILL > 15'

*** 4:1 CUT 0' - 15'
2.5:1 CUT > 15'

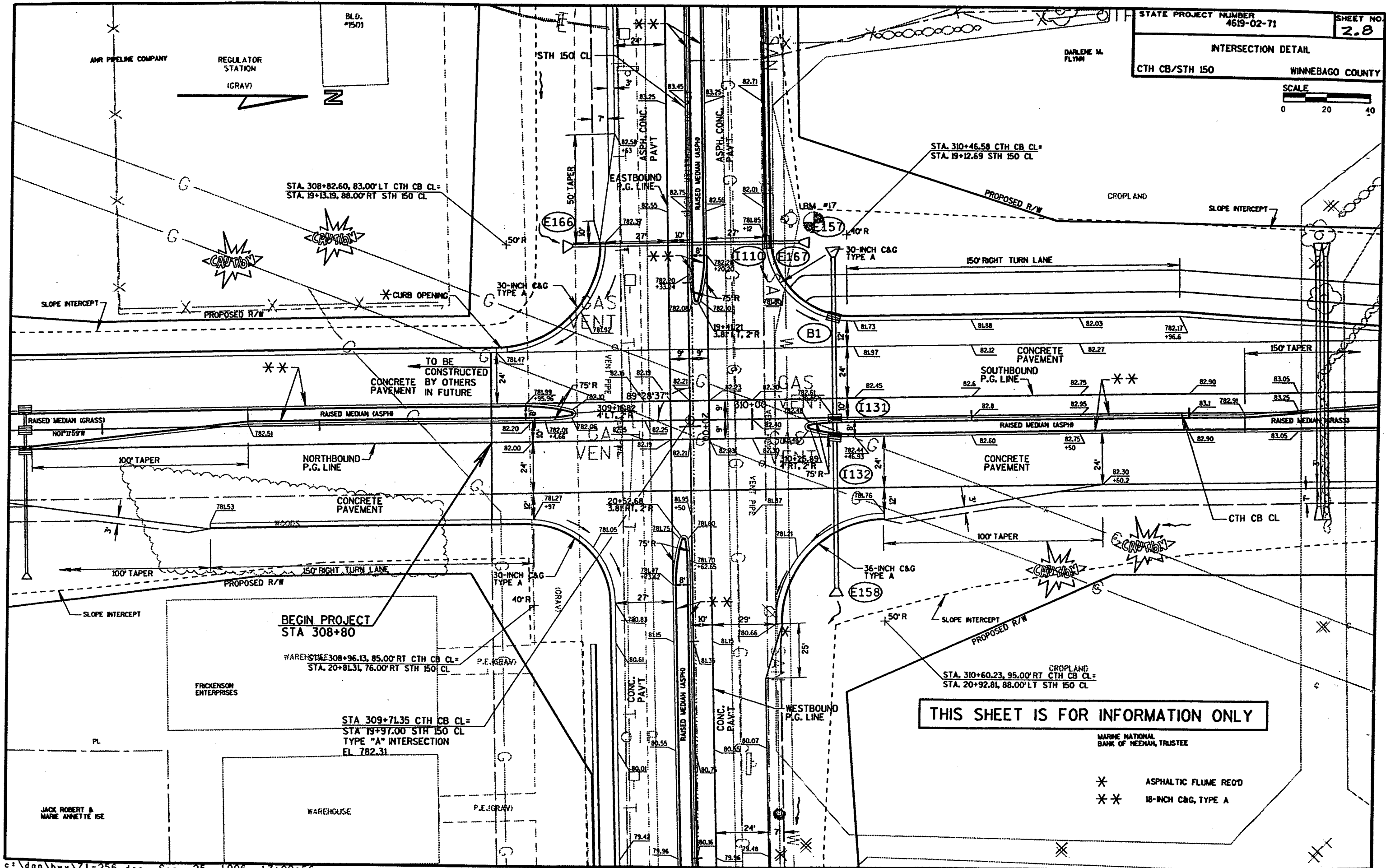
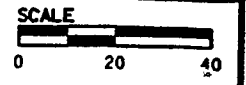


PROPOSED TYPICAL GRADING SECTION - STH 150

STA. 11+86.18 TO STA. 14+88.16
STA. 25+29.90 TO STA. 30+01.73

** 4:1 FILL 0' - 15'
3:1 FILL > 15'

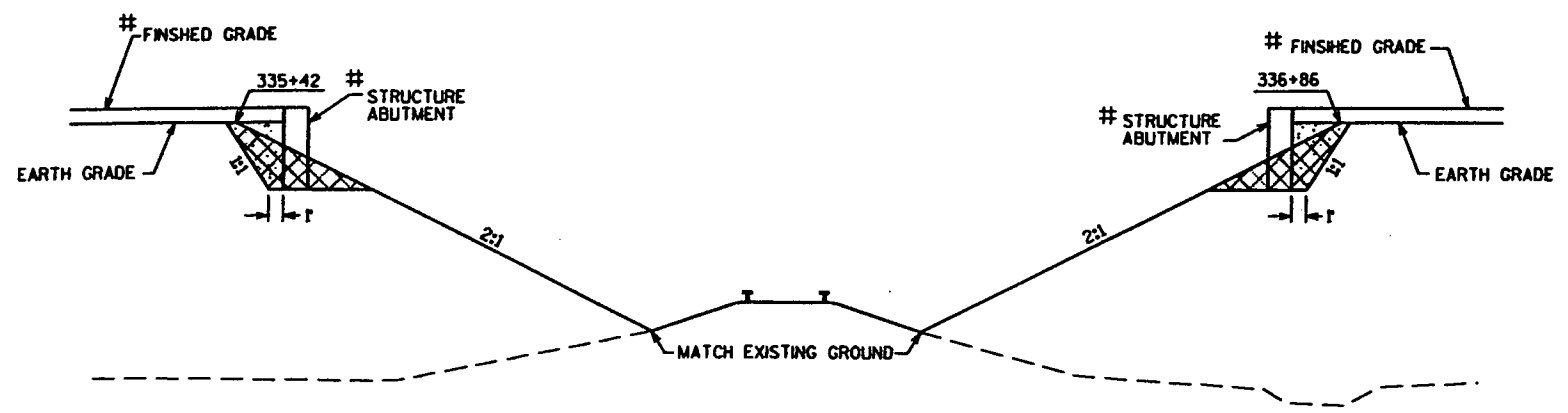
*** 4:1 CUT 0' - 15'
2.5:1 CUT > 15'



THIS SHEET IS FOR INFORMATION ONLY

MARINE NATIONAL BANK OF NEENAH, TRUSTEE

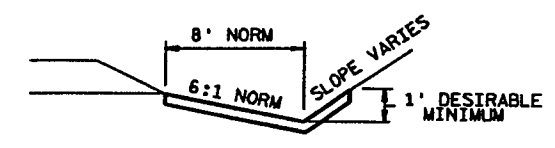
- * ASPHALTIC FLUME REQ'D
- ** 18-INCH C&G, TYPE A



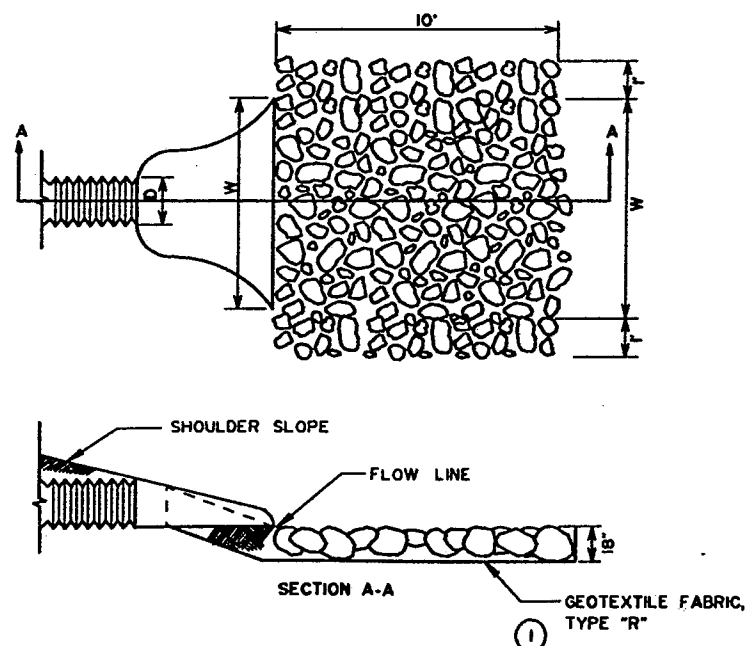
- FILL - THIS CONTRACT
- EXCAVATION FOR STRUCTURE
- GRANULAR BACKFILL

EMBANKMENT DETAIL
 ABUTMENT FILL SLOPES AT B-70-183

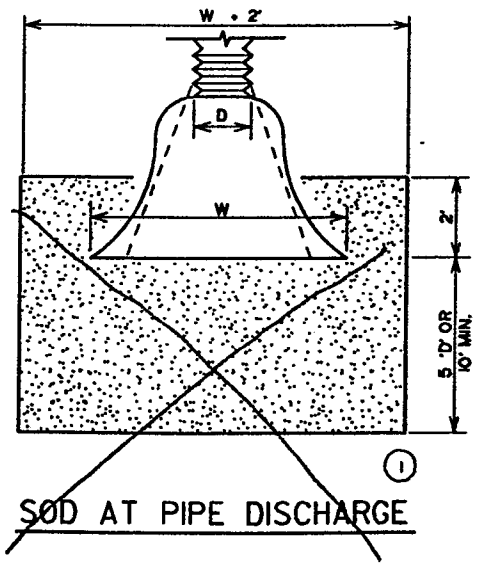
INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT



SOD DETAIL FOR DITCHES

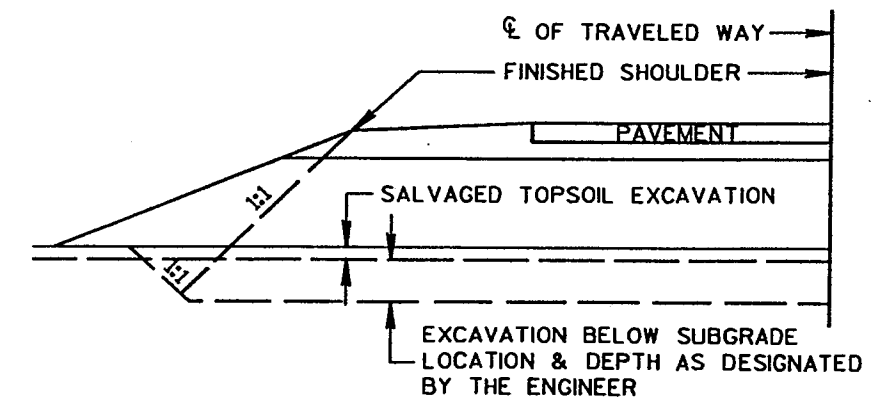


MEDIUM RANDOM RIPRAP AT PIPE DISCHARGE



SOD AT PIPE DISCHARGE

REPLACED SOD WITH EROSION MAT, CLASS II, TYPE B "COCONUT MAT"



DETAIL FOR EXCAVATION BELOW SUBGRADE

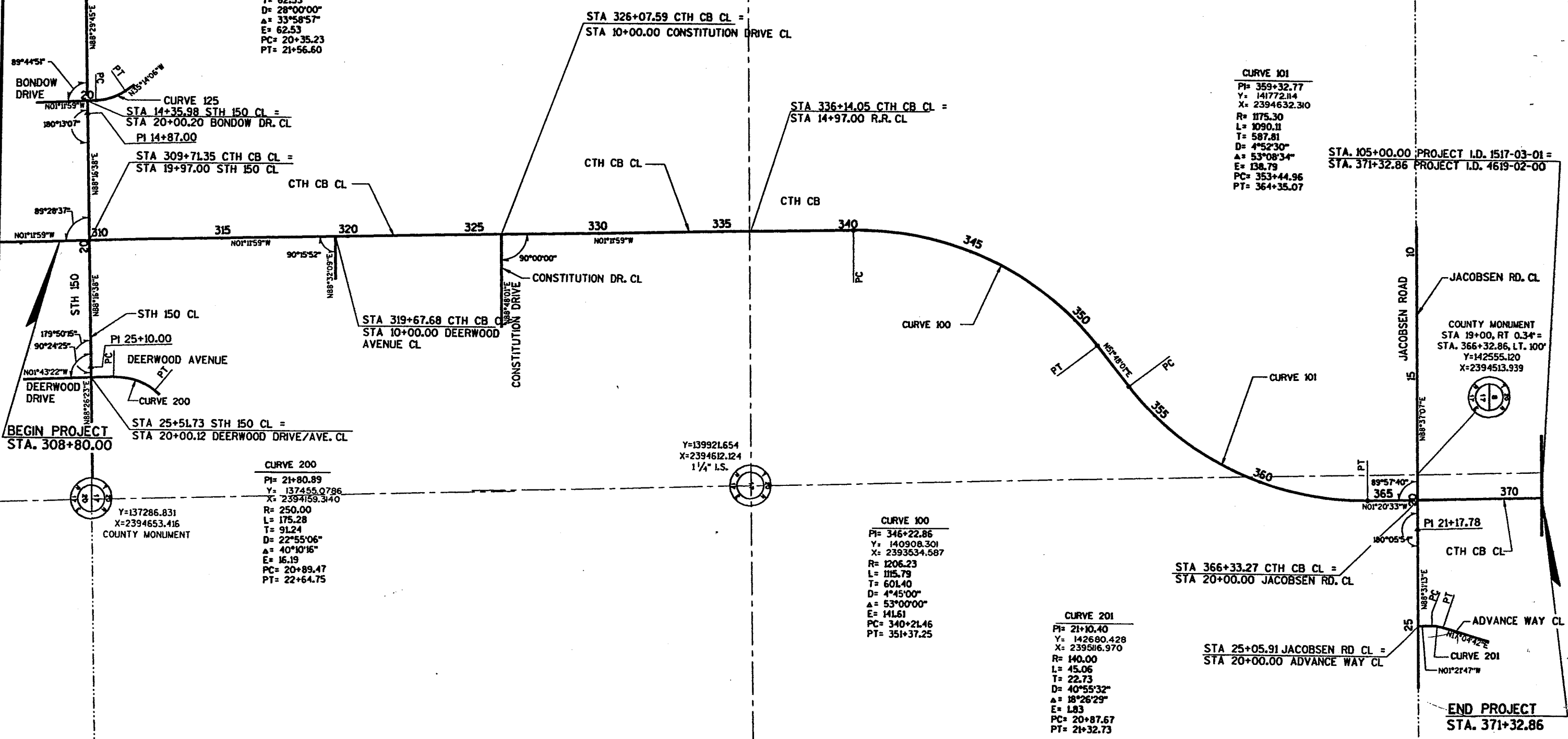
① SEE EROSION CONTROL PLANS FOR LOCATIONS



CURVE 125
 PI= 20+97.75
 Y= 137353.4934
 X= 2393048.1651
 R= 204.63
 L= 121.37
 T= 62.53
 D= 28°00'00"
 Δ= 33°58'57"
 E= 62.53
 PC= 20+35.23
 PT= 21+56.60

CURVE 101
 PI= 359+32.77
 Y= 141772.114
 X= 2394632.310
 R= 1175.30
 L= 1090.11
 T= 587.81
 D= 4°52'30"
 Δ= 53°08'34"
 E= 138.79
 PC= 353+44.96
 PT= 364+35.07

STA. 105+00.00 PROJECT I.D. 1517-03-01 =
 STA. 371+32.86 PROJECT I.D. 4619-02-00



CONSTRUCTION STAKING, INLETS AND MANHOLES

STATION	LOCATION	STRUCTURE TYPE	EACH	GROUP CODE
339+30	LT. 3.5'	INLET	1	020
342+30	LT. 3.5'	INLET	1	020
345+30	LT. 3.5'	INLET	1	020
348+30	LT. 3.5'	INLET	1	020
351+30	LT. 3.5'	INLET	1	020
355+53	LT. 3.5'	INLET	1	020
358+53	LT. 3.5'	INLET	1	020
361+53	RT. 4.6'	INLET	1	020
363+57	RT. 7.5'	INLET	1	020
365+67	LT. 0.5'	INLET	1	020
18+88	JACOBSEN RD RT. 48.0'	INLET	1	020
19+00	JACOBSEN RD LT. 5.0'	MANHOLE	1	020
19+00	JACOBSEN RD RT. 42.0'	INLET	1	020
17+50	JACOBSEN RD RT. 37.0'	INLET	1	020
16+85	JACOBSEN RD RT. 26.0'	INLET	1	020
17+00	JACOBSEN RD LT. 5.0'	MANHOLE	1	020
17+00	JACOBSEN RD LT. 26.5'	INLET	1	020
14+12	JACOBSEN RD LT. 5.0'	MANHOLE	1	020
14+12	JACOBSEN RD RT. 17.5'	INLET	1	020
14+25	JACOBSEN RD LT. 18.5'	INLET	1	020
19+15	STH 150 LT. 37.0'	INLET	1	010
17+00	STH 150 LT. 37.0'	INLET	1	010
19+00	JACOBSEN RD RT. 39.0'	MANHOLE	1	020
24+54	JACOBSEN RD LT. 32.0'	INLET	1	020
368+44	LT. 47.5'	INLET	1	020
368+44	CENTERLINE	INLET	1	020
368+44	RT. 8.5'	INLET	1	020
368+44	RT. 35.5'	INLET	1	020
370+00	LT. 37.0'	INLET	1	020
370+00	LT. 7.5'	INLET	1	020
370+00	CENTERLINE	MANHOLE	1	020
370+00	RT. 8.5'	INLET	1	020
370+00	RT. 35.5'	INLET	1	020
23+00	STH 150 RT. 46.5'	INLET	1	010
310+37	RT. 1.5'	INLET	1	010
310+37	RT. 8.5'	INLET	1	010
313+80	RT. 8.5'	INLET	1	010
313+80	RT. 8.5'	INLET	1	010
316+00	RT. 8.5'	INLET	1	010
316+00	RT. 8.5'	INLET	1	010
320+28	RT. 1.5'	INLET	1	010
320+28	RT. 8.5'	INLET	1	010
323+00	LT. 8.5'	INLET	1	010
323+00	LT. 8.5'	INLET	1	010
325+68	RT. 1.5'	INLET	1	010
325+68	RT. 8.5'	INLET	1	010
330+00	LT. 8.5'	INLET	1	010
330+00	LT. 8.5'	INLET	1	010
333+00	LT. 3.7'	INLET	1	010
333+00	RT. 3.7'	INLET	1	010
339+30	RT. 3.5'	INLET	1	010
342+30	RT. 3.5'	INLET	1	020
345+30	RT. 3.5'	INLET	1	020
348+30	RT. 3.5'	INLET	1	020
351+30	RT. 3.5'	INLET	1	020
355+53	LT. 3.5'	INLET	1	020
358+53	LT. 3.5'	INLET	1	020
361+53	CENTERLINE	INLET	1	020
363+57	CENTERLINE	INLET	1	020
365+67	LT. 9.2'	INLET	1	020
313+80	CENTERLINE	INLET	1	010
316+00	CENTERLINE	INLET	1	010
323+00	CENTERLINE	INLET	1	010
330+00	CENTERLINE	INLET	1	010
13+85	JACOBSEN RD RT. 28.0'	INLET	1	020
24+98	STH 150 RT. 46.5'	INLET	1	010
TOTAL			66	

CONSTRUCTION STAKING, PIPE CULVERTS

STATION	LOCATION	EACH	GROUP CODE
20+42	ADVANCE WAY	1	020 PAID AS 5'S.
16+46	STH 150, LT.	1	010 URBAN SECTION
17+46	STH 150, LT.	1	010 URBAN SECTION
17+58	STH 150, RT.	1	010
23+98	STH 150, LT.	1	020 NOT RESTORED
335+65	CTH CB, RT. TEMP	1	010 NOT INSTALLED
337+45	CTH CB, RT.	1	010
336+68	CTH CB, RT. TEMP	1	010
338+20	CTH CB, RT. TEMP	1	010
354+34	CTH CB, RT.	2	020
358+00	CTH CB, RT.	1	020
20+50	DEERWOOD AVE	1	010
10+70	CONSTITUTION DRIVE	1	010
10+65	DEERWOOD AVE	1	010
20+88	JACOBSEN RD	1	020 STORM SEWER
13+80	STH 150	1	010
29+50	STH 150	2	010
19+44	BONDOW DRVE	1	010
TOTAL	26+00 JACOBSEN RD	20	

CONSTRUCTION STAKING, SUBGRADE

STATION TO STATION	LOCATION	TRAFFIC CONTROL STAGE	STA	GROUP CODE
309+80 - 335+50	CTH CB	I	51.4	010
336+80 - 339+00	CTH CB	I	4.4	010
339+00 - 371+33	CTH CB	I	64.6	020
11+86 - 30+02	STH 150	I	36.4	010
13+46 - 26+54	JACOBSEN ROAD	I	26.2	020
18+81 - 21+07	BONDOW DRIVE	I	2.3	010
19+49 - 20+98	DEERWOOD DRIVE/AVE	I	1.5	010
10+00 - 11+35	DEERWOOD AVE	I	1.4	010
10+00 - 11+35	CONSTITUTION DRIVE	I	1.4	010
20+00 - 21+10	ADVANCE WAY	I	1.1	020
TOTAL			190.7	

MARKER POSTS FOR RIGHT-OF-WAY

STATION	LOCATION	EACH	GROUP CODE
308+70.00	CTH CB, 70.00 RIGHT	1	010
311+65.00	CTH CB, 75.00 RIGHT	1	010
318+00.00	CTH CB, 85.00 RIGHT	1	010
319+28.17	CTH CB, 105.00 RIGHT	1	010
320+08.17	CTH CB, 105.00 RIGHT	1	010
322+00.00	CTH CB, 80.00 RIGHT	1	010
325+00.00	CTH CB, 95.00 RIGHT	1	010
325+75.06	CTH CB, 110.00 RIGHT	1	010
326+41.06	CTH CB, 110.00 RIGHT	1	010
327+00.00	CTH CB, 90.00 RIGHT	1	010
335+64.42	CTH CB, 55.00 RIGHT	1	010
336+64.43	CTH CB, 60.00 RIGHT	1	010
340+21.46	CTH CB, 140.00 RIGHT	1	020
342+00.00	CTH CB, 110.00 RIGHT	1	020
344+00.00	CTH CB, 90.00 RIGHT	1	020
346+00.00	CTH CB, 75.00 RIGHT	1	020
349+00.00	CTH CB, 75.00 RIGHT	1	020
351+37.25	CTH CB, 75.00 RIGHT	1	020
353+44.96	CTH CB, 85.00 RIGHT	1	020
355+00.00	CTH CB, 85.00 RIGHT	1	020
356+37.94	CTH CB, 84.53 RIGHT	1	020
357+12.42	CTH CB, 194.55 RIGHT	1	020
358+58.90	CTH CB, 90.00 RIGHT	1	020
359+00.00	CTH CB, 90.00 RIGHT	1	020
362+00.00	CTH CB, 75.00 RIGHT	1	020
364+35.06	CTH CB, 85.00 RIGHT	1	020
308+70.00	CTH CB, 50.00 LEFT	1	010
311+40.00	CTH CB, 90.00 LEFT	1	010
318+00.00	CTH CB, 70.00 LEFT	1	010
323+00.00	CTH CB, 90.00 LEFT	1	010
325+00.00	CTH CB, 75.00 LEFT	1	010
332+00.00	CTH CB, 145.00 LEFT	1	010
335+63.69	CTH CB, 155.00 LEFT	1	010
336+63.68	CTH CB, 160.00 LEFT	1	010
340+21.46	CTH CB, 135.00 LEFT	1	020
341+50.00	CTH CB, 125.00 LEFT	1	020
345+00.00	CTH CB, 95.00 LEFT	1	020
348+00.00	CTH CB, 95.00 LEFT	1	020
349+50.00	CTH CB, 90.00 LEFT	1	020
351+37.25	CTH CB, 90.00 LEFT	1	020
353+44.96	CTH CB, 80.00 LEFT	1	020
356+00.00	CTH CB, 75.00 LEFT	1	020
359+00.00	CTH CB, 70.00 LEFT	1	020
361+00.00	CTH CB, 70.00 LEFT	1	020
362+08.63	CTH CB, 73.97 LEFT	1	020
365+82.48	CTH CB, 99.30 LEFT	1	020
12+60.00	STH 150, 36.50 RIGHT	1	010
12+80.00	STH 150, 60.00 RIGHT	1	010
11+36	STH 150, 70.00 RIGHT	1	010
15+02.64	STH 150, 80.00 RIGHT	1	010
21+60.00	STH 150, 48.00 RIGHT	1	010
23+85.06	STH 150, 48.00 RIGHT	1	010
23+85.24	STH 150, 32.94 RIGHT	1	010
11+50.00	STH 150, 37.52 LEFT	1	010
15+19.69	STH 150, 53.19 LEFT	1	010
16+30.20	STH 150, 52.79 LEFT	1	010
18+66.81	STH 150, 51.93 LEFT	1	010
21+25.00	STH 150, 70.00 LEFT	1	010
25+11.20	STH 150, 89.60 LEFT	1	010
25+10.39	STH 150, 32.60 LEFT	1	010
21+00.00	BONDOW DRIVE, 33.15 LEFT	1	010
21+00.00	BONDOW DRIVE, 32.85 RIGHT	1	010
17+00.00	JACOBSEN RD, 33.54 RIGHT	1	020
17+00.00	JACOBSEN RD, 40.00 RIGHT	1	020
21+17.85	JACOBSEN RD, 75.00 RIGHT	1	020
26+00.00	JACOBSEN RD, 55.00 RIGHT	1	020
27+00.00	JACOBSEN RD, 33.03 RIGHT	1	020
27+00.00	JACOBSEN RD, 32.97 LEFT	1	020
25+42.37	JACOBSEN RD, 65.00 LEFT	1	020
24+73.03	JACOBSEN RD, 82.99 LEFT	1	020
24+35.00	JACOBSEN RD, 55.00 LEFT	1	020
23+00.00	JACOBSEN RD, 70.00 LEFT	1	020
21+26.65	JACOBSEN RD, 70.00 LEFT	1	020
18+60.86	JACOBSEN RD, 44.00 LEFT	1	020
15+00.00	JACOBSEN RD, 37.00 LEFT	1	020
13+80.00	JACOBSEN RD, 32.45 LEFT	1	020
TOTAL		76	

CONSTRUCTION STAKING, CRUSHED AGGREGATE BASE COURSE

STATION TO STATION	LOCATION	TRAFFIC CONTROL STAGE	STA	GROUP CODE
11+86 - 30+02	STH 150	I	36.4	010
13+46 - 26+54	JACOBSEN ROAD	I	26.2	020
18+81 - 20+07	BONDOW DRIVE	I	2.3	010
19+49 - 20+98	DEERWOOD DRIVE/AVE	I	1.5	010
10+00 - 11+35	DEERWOOD AVE	I	1.4	010
10+00 - 11+35	CONSTITUTION DRIVE	I	1.4	010
20+00 - 21+10	ADVANCE WAY	I	1.1	020
TOTAL			70.3	

INLETS & MANHOLES

NO.	STATION	LOCATION	STRUCTURE	TYPE	COVER	GRATE FLOWLINE ELEV.	INVERT ELEV.	(1) DEPTH TO FLOWLINE	GROUP CODE	REMARKS
127	339+30	LT. 3.5'	INLET	1	A-LT	814.39	809.18	4.3	020	
128	342+30	LT. 3.5'	INLET	1	A-LT	803.33	797.84	4.6	020	
129	345+30	LT. 3.5'	INLET	1	A-LT	792.99	787.08	5.0	020	
130	348+30	LT. 3.5'	INLET	1	A-LT	788.13	782.48	4.7	020	
131	351+30	LT. 3.5'	INLET	1	A-LT	787.25	782.06	4.3	020	
132	355+53	LT. 3.5'	INLET	1	A-RT	785.90	781.46	3.5	020	
133	358+53	LT. 3.5'	INLET	1	A-RT	783.93	779.31	3.7	020	
134	361+53	RT. 4.6'	INLET	1	A-RT	781.48	778.30	2.2	020	
135	363+57	RT. 7.5'	INLET	1	A-RT	780.89	778.38	1.6	020	
136	365+67	LT. 0.5'	INLET	1	A-RT	780.25	777.88	1.4	020	
137A	19+00	JACOBSEN RD RT. 48.0'	INLET	8	MS	778.00	776.13	1.9	020	(2)
MH38	19+00	JACOBSEN RD LT. 5.0'	MANHOLE	1	J	780.31	776.00	2.8	020	
139	19+00	JACOBSEN RD RT. 42.0'	INLET	8	MS	777.95	776.10	1.9	020	
143A	17+50	JACOBSEN RD RT. 37.0'	INLET	8	MS	777.25	775.66	1.6	020	(2)
141	16+85	JACOBSEN RD RT. 26.0'	INLET	3	H-RT	778.63	775.60	2.2	020	(2)
MH42	17+00	JACOBSEN RD LT. 5.0'	MANHOLE	1	J	778.23	775.50	2.2	020	
143	17+00	JACOBSEN RD LT. 26.5'	INLET	3	H-LT	778.66	775.56	2.3	020	(2)
MH44	14+12	JACOBSEN RD LT. 5.0'	MANHOLE	1	J	778.15	774.39	2.3	020	
145	14+12	JACOBSEN RD RT. 17.5'	INLET	1	H-RT	777.76	774.45	2.5	020	
146	14+25	JACOBSEN RD LT. 18.5'	INLET	3	H-LT	777.75	774.35	2.5	020	
1110	19+15	STH 150 LT. 37.0'	INLET	3	H-S	781.64	778.37	2.4	010	
1111	17+00	STH 150 LT. 37.5'	INLET	3	H-RT	784.83	779.42	4.6	010	(2)
150	24+54	JACOBSEN RD LT. 32.0'	INLET	3	H-RT	778.24	775.80	1.6	020	(2)
152	368+44	LT. 47.5'	INLET	3	H-S	778.61	775.21	2.6	020	
153	368+44	CENTERLINE	INLET	3	H-S	779.53	775.00	3.7	020	
155	368+44	RT. 8.5'	INLET	3	H-S	779.33	775.12	3.4	020	

REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER

⊕ ON MCMAHON'S TABLE
(REL TRAIL)

* I143-B7-E164
* I145-B8-E165

NOT ON PLAN &
NOT IN STR. TABLE

STATION TO STATION	LOCATION & STRUCT. TO STRUCT.	12-INCH L.F.	PIPE SIZE				12-INCH EACH	ENDWALLS 15-INCH EACH	21-INCH EACH	JOINT TIES EACH	PIPE GRATES 15-INCH EACH	ELEVATIONS		GROUP CODE
			15-INCH L.F.	18-INCH L.F.	21-INCH L.F.	30-INCH L.F.						INLET	DISCHARGE	
310.37 - 310.37	E157 - B1											778.29	778.21	010
310.37 - 310.37	E157 - I131								14	6		778.21	777.94	010
310.37 - 310.37	I131 - I132								48			777.94	777.90	010
310.37 - 310.37	I132 - E158								7			777.90	777.50	010
313.80 - 313.80	I133 - I170	8							70	1	6	777.90	777.50	010
313.80 - 313.80	I134 - E159	38										779.68	779.66	010
313.80 - 313.80	I170 - I134	8						1		6		779.64	779.50	010
316.00 - 316.00	I135 - I171	8										779.66	779.64	010
316.00 - 316.00	I171 - I136	8										780.38	780.36	010
316.00 - 316.00	I136 - E160	38										780.36	780.34	010
320.28 - 320.28	I137 - I138	5								6		780.34	780.20	010
320.28 - 320.28	I138 - E161	38										782.52	782.48	010
323.00 - 323.00	I139 - I173	38						1		6		782.48	782.30	010
323.00 - 323.00	I173 - I140	8										783.98	783.96	010
323.00 - 323.00	I140 - E162	38										783.96	783.94	010
326.68 - 326.68	I141 - I142	5								6		783.94	783.85	010
326.68 - 326.68	I142 - E163	46										789.52	789.47	010
330.00 - 330.00	I144 - I175	8						1		6		789.47	789.30	010
330.00 - 330.00	I175 - I143	8										799.17	799.15	010
330.00 - 330.00	I143 - E164	42										799.15	799.13	010
333.00 - 333.00	I144 - E165	5								6		799.13	799.00	010
333.00 - 333.00	I145 - I145	5										810.55	810.45	010
339.30 - 339.30	I27 - I147	42								6		810.45	810.00	010
339.30 - 339.30	I147 - E87	5										809.18	809.15	020
342.30 - 342.30	I148 - I28	48								6		809.15	809.00	020
342.30 - 342.30	I28 - E88	5										798.00	797.84	020
345.30 - 345.30	I29 - I149	70								6		797.84	797.00	020
345.30 - 345.30	I149 - E89	5										787.08	787.00	020
348.30 - 348.30	I30 - I150	40								6		787.00	786.80	020
348.30 - 348.30	I150 - E90	5										782.48	782.40	020
351.30 - 351.30	I31 - I151	42								6		782.40	782.00	020
351.30 - 351.30	I151 - E91	5										782.06	781.98	020
355.53 - 355.53	I152 - I32	44								6		781.98	781.50	020
355.53 - 355.53	I32 - E92	5										781.52	781.46	020
358.53 - 358.53	I153 - I33	56								6		781.46	781.16	020
358.53 - 358.53	I33 - E93	5										779.39	779.31	020
361.53 - 361.53	I154 - I34	56								6		779.31	779.00	020
361.53 - 361.53	I34 - E94	6										778.32	778.30	020
363.57 - 363.57	I155 - I36	50								6		778.30	777.70	020
363.57 - 363.57	I35 - I155	210										778.30	777.88	020
363.57 - 363.57	I156 - I36	5										778.38	778.30	020
365.67 - 365.67	I36 - E96	7										777.92	777.88	020
365.67 - 365.67	E130 - I51	74								6		777.88	777.60	020
368.44 - 368.44	I52 - I53	42										775.37	775.33	020
368.44 - 368.44	I56 - I55	44										775.21	775.12	020
368.44 - 368.44	I55 - I53	24										775.17	775.12	020
368.44 - 370.00	I53 - MH59	7				156						775.12	775.00	020
370.00 - 370.00	I57 - I58	24										775.00	774.70	020
370.00 - 370.00	I58 - MH59	6										774.77	774.72	020
370.00 - 370.00	I61 - I60	24										774.72	774.70	020
370.00 - 370.00	I60 - MH59	2										774.77	774.72	020
370.00 - 378.00	* MH59 - STUB	2										774.72	774.70	020
17.00 - 19.15	STH 150, I111-I110	210				8						774.20	-	020
19.15 - 19.15	STH 150, E166-I110	88										779.42	778.37	010
19.15 - 19.15	STH 150, I110-E167	14						1		6		778.80	778.37	010
23.00 - 24.98	STH 150, I170A-I170	198										778.37	778.34	010
24.98 - 26.05	STH 150, I70 - E86	107										774.90	773.65	010
365.00 - 19.00	JACOBSEN RD, E97 - I37A	26								6	1	773.65	773.30	010
19.00 - 19.00	JACOBSEN RD, I39 - MH38	40								6		776.20	776.13	020
19.00 - 17.00	JACOBSEN RD, MH38 - MH42	196										776.10	776.00	020
16.85 - 17.00	JACOBSEN RD, I41 - MH42	26										776.00	775.50	020
17.00 - 17.00	JACOBSEN RD, I43 - MH42	18										775.60	775.50	020
17.00 - 14.12	JACOBSEN RD, MH42 - MH44	284										775.56	775.50	020
14.12 - 14.12	JACOBSEN RD, I45 - MH44	32										775.50	774.39	020
14.12 - 14.25	JACOBSEN RD, MH44 - I46	10										774.45	774.39	020
14.25 - 14.25	JACOBSEN RD, I46 - EXIST. MH	4										774.39	774.35	020
20.83 - 20.83	JACOBSEN RD, E47 - I47A	83								6	1	774.35	774.20	020
24.54 - 25.54	JACOBSEN RD, I50 - E51	100						1		6		775.60	775.47	020
13.85 - 14.12	JACOBSEN RD, I184 - I45	42										775.80	775.50	020
19.00 - 19.00	JACOBSEN RD, I37A - MH38	53										774.55	774.45	020
17.50 - 17.00	JACOBSEN RD, I43A - I43	50										776.13	776.00	020
20.83 - 368.44	I47A - I56	184										775.66	775.56	020
												775.47	775.17	020
TOTAL		2986	56	156	139	8	21	2	2	144	1			

* PLUG AT END OF STUB IS INCIDENTAL
MH #4 (MCMAHON) TO STUB

30'-15" (MCMAHON)
FOR TEMP TIE-IN TO EXIST. DITCH

ADDITIONAL QUANTITIES FOR ADDITION OF REC TRAIL McManon 8/15

STATE PROJECT NUMBER	SHEET NO.
4619-02-71	323F
MISCELLANEOUS QUANTITIES	
CTH CB	WINNEBAGO COUNTY

INLETS AND MANHOLES AND CONSTRUCTION STAKING, INLETS AND MANHOLES

NO.	STATION	LOCATION	ROAD	STRUCTURE	TYPE	COVER	GRATE FLOWLINE ELEV.	INVERT ELEV.	TOP OF STRUCTURE ELEV.	(1) DEPTH TO FLOWLINE	CONSTRUCTION STAKING EACH	GROUP CODE
B1	310+37	LT, 46.5'	CTH CB	INLET	3	H-LT.	781.53	778.26	780.60	2.3	1	010
B2	313+80	LT, 34.5'	CTH CB	INLET	3	H-LT.	782.80	779.78	781.87	2.0	1	010
B3	316+00	LT, 34.5'	CTH CB	INLET	3	H-LT.	783.46	780.50	782.53	2.0	1	010
B4	320+28	LT, 34.5'	CTH CB	INLET	3	H-LT.	785.20	782.62	784.27	1.7	1	010
B5	323+00	LT, 34.5'	CTH CB	INLET	3	H-LT.	786.56	784.06	785.63	1.6	1	010
B6	326+68	LT, 34.5'	CTH CB	INLET	3	H-LT.	792.35	789.63	791.42	1.8	1	010
B7	330+00	LT, 34.5'	CTH CB	INLET	3	H-LT.	804.06	799.05	803.13	4.1	1	010
B8	333+00	LT, 29.5'	CTH CB	INLET	3	H-LT.	814.77	810.17	813.84	3.7	1	010
B9	339+30	LT, 29.5'	CTH CB	INLET	3	H-RT.	814.45	809.26	813.52	4.2	1	020
B10	342+30	LT, 29.5'	CTH CB	INLET	3	H-RT.	804.54	797.36	803.59	6.2	1	020
B11	345+30	LT, 29.5'	CTH CB	INLET	3	H-RT.	794.20	787.23	793.27	6.0	1	020
B12	348+30	LT, 29.5'	CTH CB	INLET	3	H-RT.	789.34	782.72	788.41	5.7	1	020
B13	351+30	LT, 29.5'	CTH CB	INLET	3	H-RT.	788.11	782.33	787.18	4.8	1	020
B14	355+53	LT, 29.5'	CTH CB	INLET	3	H-RT.	784.72	779.00	783.79	4.8	1	020
B15	358+53	LT, 29.5'	CTH CB	INLET	3	H-RT.	782.71	778.50	781.78	3.3	1	020
B16	361+53	LT, 32.5'	CTH CB	INLET	3	H-RT.	780.84	777.53	779.71	2.2	1	020
B17	363+89	LT, 35.5'	CTH CB	INLET	3	H-RT.	779.52	776.96	778.59	1.6	1	020

* LOCATION SHOWN IS TO CENTER OF STRUCTURE

(1) DEPTH TO FLOWLINE SHOWN DOES NOT INCLUDE THE 6-INCH ADJUSTMENT BELOW CASTING FOR INLETS. MINIMUM STRUCTURE DEPTH OF 3.5 FEET EXCLUDES COVER AND ADJUSTMENT.

FILTER BAGS

STATION	PURPOSE	LOCATION	ROAD	DELIVERED EACH	INSTALLED EACH	MAINTAINED EACH	GROUP CODE
310+37	INLET PROTECTION	LT.	CTH CB	8	8	16	010
313+80	INLET PROTECTION	LT.	CTH CB	8	8	16	010
316+00	INLET PROTECTION	LT.	CTH CB	8	8	16	010
320+28	INLET PROTECTION	LT.	CTH CB	8	8	16	010
323+00	INLET PROTECTION	LT.	CTH CB	8	8	16	010
326+68	INLET PROTECTION	LT.	CTH CB	8	8	16	010
330+00	INLET PROTECTION	LT.	CTH CB	8	8	16	010
333+00	INLET PROTECTION	LT.	CTH CB	8	8	16	010
339+30	INLET PROTECTION	LT.	CTH CB	8	8	16	020
342+30	INLET PROTECTION	LT.	CTH CB	8	8	16	020
345+30	INLET PROTECTION	LT.	CTH CB	8	8	16	020
348+30	INLET PROTECTION	LT.	CTH CB	8	8	16	020
351+30	INLET PROTECTION	LT.	CTH CB	8	8	16	020
355+53	INLET PROTECTION	LT.	CTH CB	8	8	16	020
358+53	INLET PROTECTION	LT.	CTH CB	8	8	16	020
361+53	INLET PROTECTION	LT.	CTH CB	8	8	16	020
363+89	INLET PROTECTION	LT.	CTH CB	8	8	16	020
TOTALS				136	136	272	

REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER

STATION	LOCATION & STR.-STR.	RCP, CLASS III STORM SEWER 12-INCH L.F.	RCP, CLASS III STORM SEWER 21-INCH L.F.	ENDWALLS 12-INCH RCCP EACH	JOINT TIES EACH	ELEVATIONS		GROUP CODE
						INLET	DISCHARGE	
310+37	CTH CB, E157 - B1		28 (14)			778.32	778.26	010
310+37	CTH CB, B1 - I131		46 (0)			778.26	778.17	010
313+80	CTH CB, B2 - B2A	28 (28)		1 (1)	4	779.78	779.70	010
316+00	CTH CB, B3 - B3A	27 (27)		1 (1)	4	780.50	780.40	010
320+28	CTH CB, B4 - I137	35 (35)				782.62	782.52	010
323+00	CTH CB, B5 - I139	26 (26)				784.06	783.98	010
326+68	CTH CB, B6 - I141	35 (35)				789.63	789.52	010
330+00	CTH CB, I143 - B7	26 (0)				799.13	799.05	010
330+00	CTH CB, B7 - E164	34 (11)		1 (0)	4	799.05	799.00	010
333+00	CTH CB, I145 - B8	26 (0)				810.45	810.17	010
333+00	CTH CB, B8 - E165	30 (9)		1 (0)	4	810.17	810.00	010
339+30	CTH CB, B9 - I27	26 (26)				809.26	809.18	020
342+30	CTH CB, I28 - B10	26 (26)				797.84	797.36	020
342+30	CTH CB, B10 - E88	41 (3)		1 (0)	4	797.36	797.00	020
345+30	CTH CB, B11 - I29	26 (26)				787.23	787.08	020
348+30	CTH CB, B12 - I30	26 (26)				782.72	782.48	020
351+30	CTH CB, B13 - I31	26 (26)				782.33	782.06	020
355+53	CTH CB, B14 - B14A	37 (37)		1 (1)	4	779.00	778.50	020
358+53	CTH CB, B15 - B15A	31 (31)		1 (1)	4	778.50	778.24	020
361+53	CTH CB, B16 - B16A	26 (26)		1 (1)	4	777.53	777.30	020
363+89	CTH CB, B17 - B17A	32 (32)		1 (1)	4	776.96	776.80	020
TOTALS		564 (430)	74 (14)	9 (6)				

(TO BE PAID FOR BY THE TOWN OF MENASHA)

SALVAGED TOPSOIL, SEED, MULCH, AND FERTILIZER

STA.-STA.	LOCATION	SALVAGED TOPSOIL S.Y.	MULCHING S.Y.	FERTILIZER TYPE B CWT.	SEEDING NO. 30 (LBS)	GROUP CODE
309+00-339+00	C.T.H. CB	3572	3572	2.25	64	010
339+00-366+00	C.T.H. CB	2195	2195	1.38	40	020

SOD & EROSION MAT. CLASS II - TYPE A

STATION	LOCATION	ROAD	DELIVERED S.Y.	INSTALLED S.Y.	SOD	GROUP CODE
313+80	OUTFALL- LT.	CTH CB	8	8	8	010
316+00	OUTFALL- LT.	CTH CB	8	8	8	010
355+53	OUTFALL- LT.	CTH CB	8	8	8	020
358+53	OUTFALL- LT.	CTH CB	8	8	8	020
361+53	OUTFALL- LT.	CTH CB	8	8	8	020
363+48	OUTFALL- LT.	CTH CB	8	8	8	020
TOTALS			48	48	48	

CURVE 99
 PT= 302+77.37
 R= 954.93
 L= 648.93
 T= 337.56
 D= 6°00'00"
 Δ= 38°56'09"
 E= 57.91
 PC= 299+39.81
 PT= 305+88.74
 SE= 0.055'
 RO= 137.50'

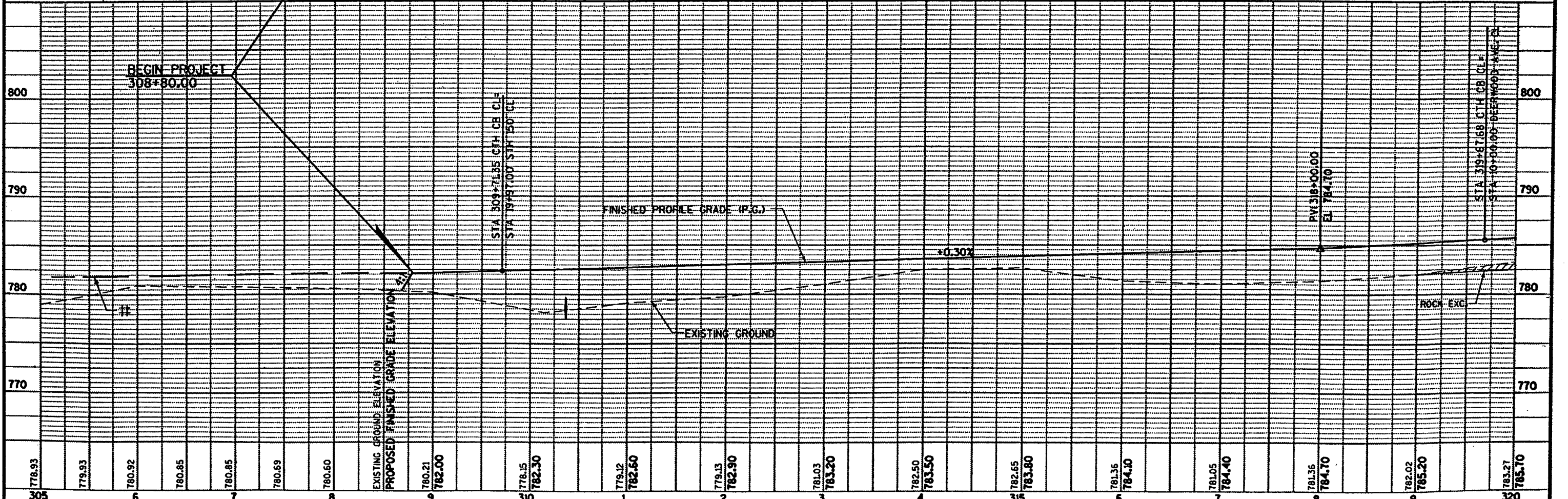
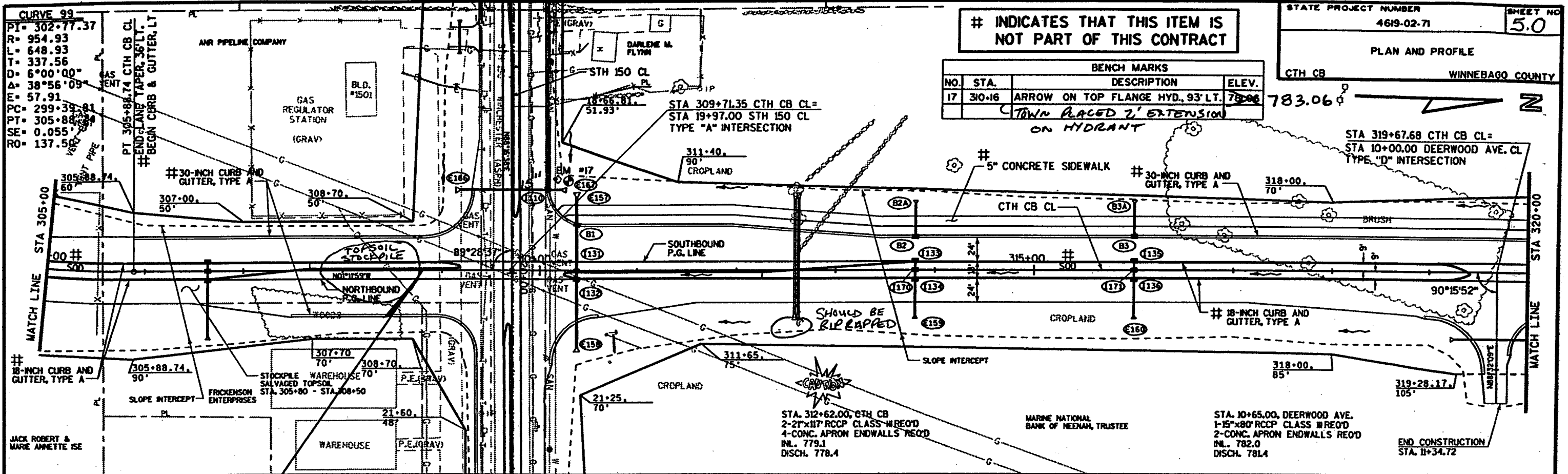
PT 305+88.74 CTH CB CL
 END GLANE TAPER, 36' LT.
 BEGIN CURB & GUTTER, LT

INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT

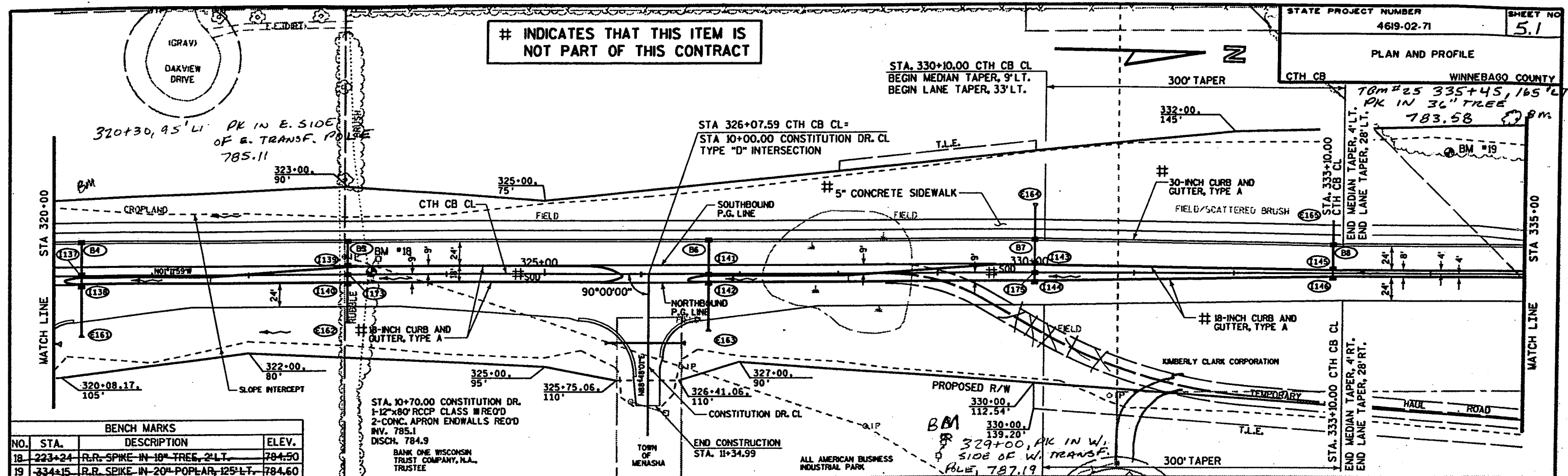
STATE PROJECT NUMBER 4619-02-71 SHEET NO 5.0
 PLAN AND PROFILE
 CTH CB WINNEBAGO COUNTY

BENCH MARKS

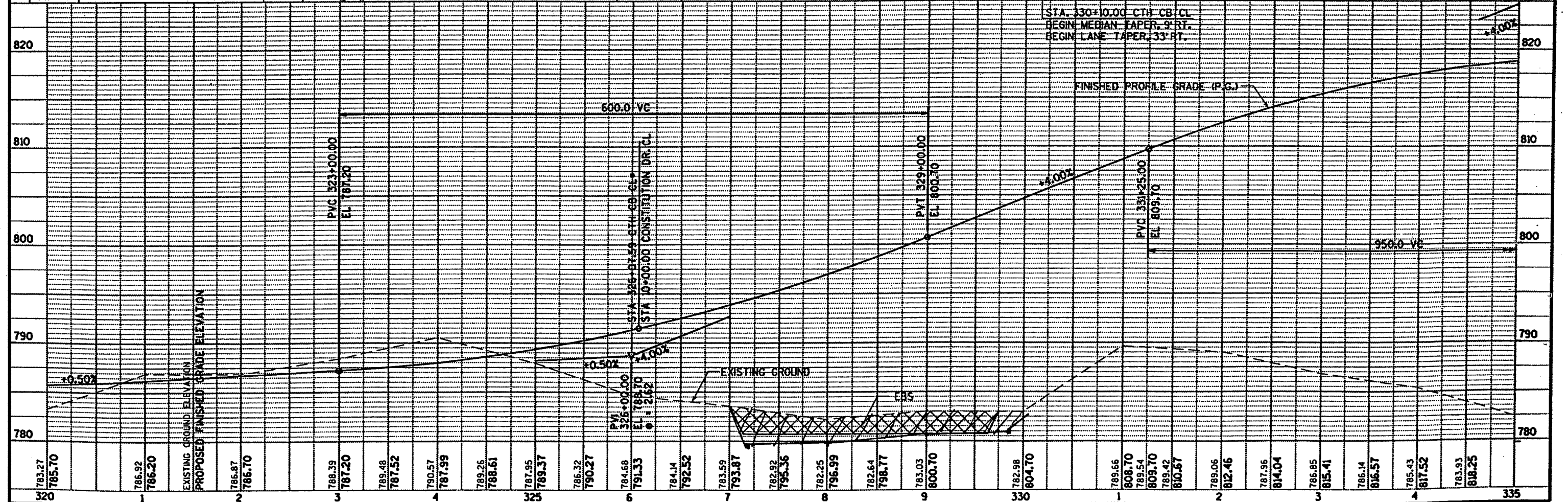
NO.	STA.	DESCRIPTION	ELEV.
17	310+16	ARROW ON TOP FLANGE HYD. 93' LT.	783.06
		TWIN PLACED 2' EXTENSION ON HYDRANT	



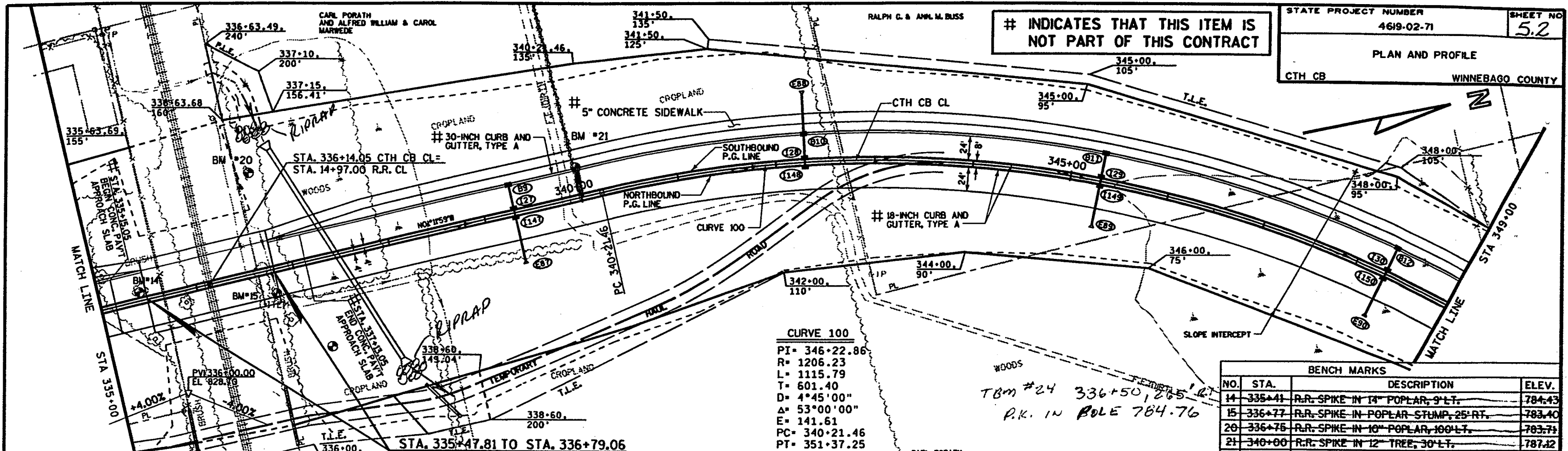
INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT



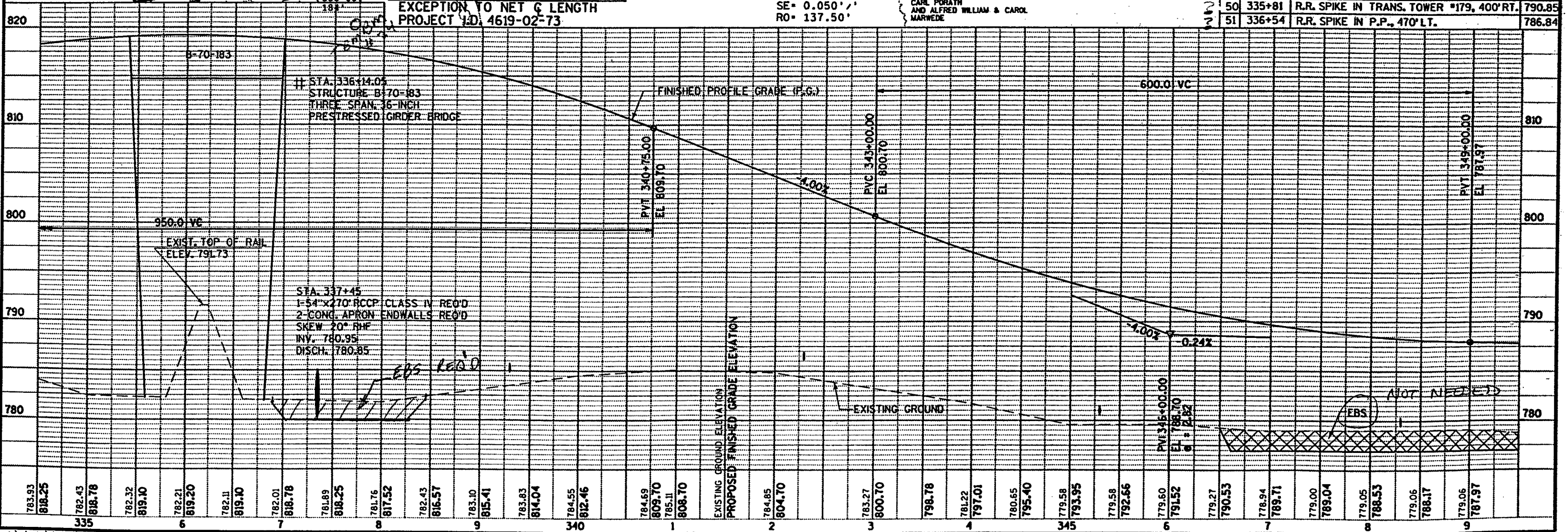
BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
18	223+24	R.R. SPIKE IN 18" TREE, 2' LT.	784.50
19	334+15	R.R. SPIKE IN 20" POPLAR, 125' LT.	784.60



INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT



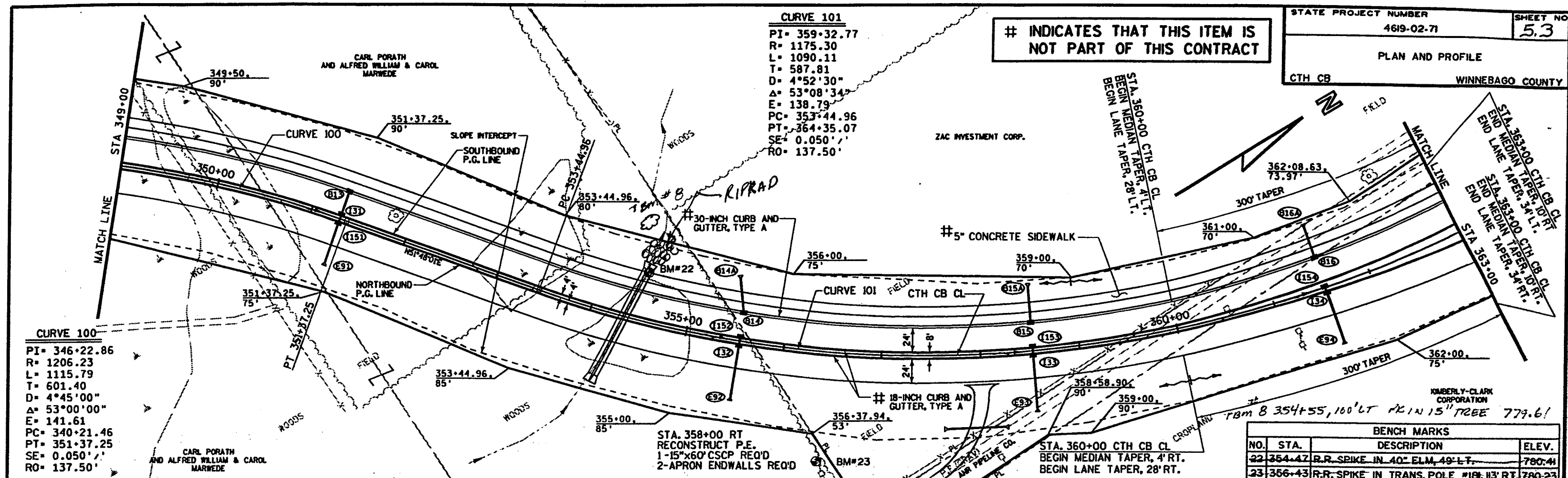
BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
14	335+41	R.R. SPIKE IN 14\"/>	



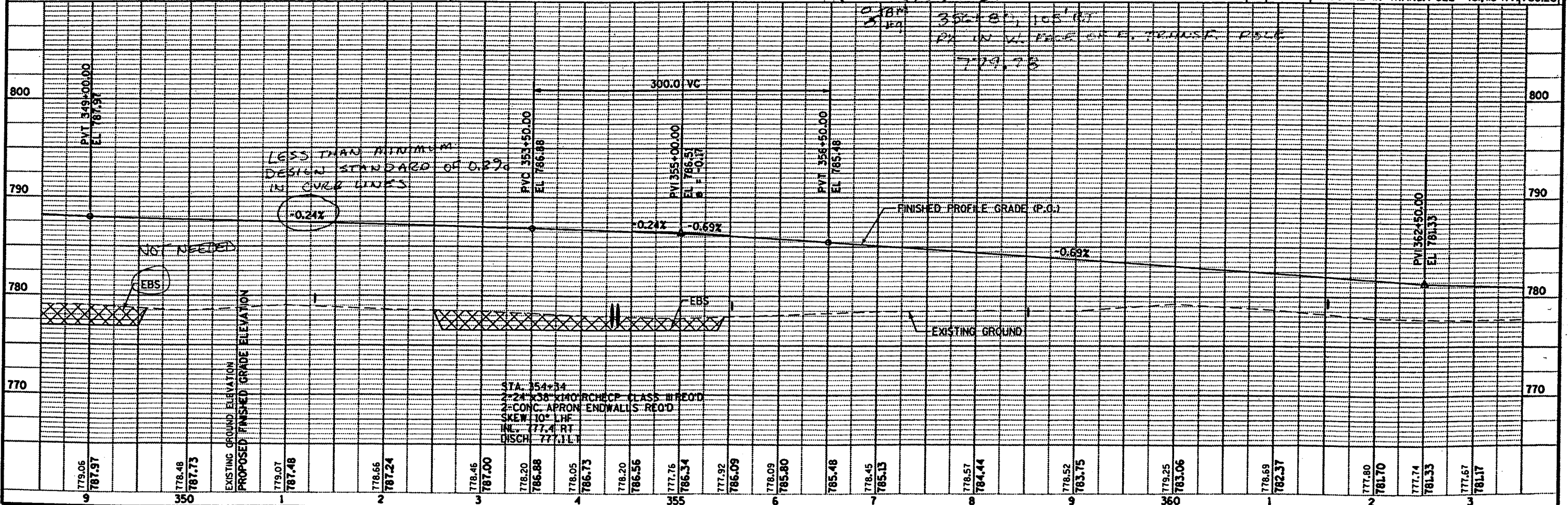
INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT

CURVE 101
 PI= 359.32.77
 R= 1175.30
 L= 1090.11
 T= 587.81
 D= 4°52'30"
 Δ= 53°08'34"
 E= 138.79
 PC= 353.44.96
 PT= 364.35.07
 SE= 0.050'
 RO= 137.50'

CURVE 100
 PI= 346.22.86
 R= 1206.23
 L= 1115.79
 T= 601.40
 D= 4°45'00"
 Δ= 53°00'00"
 E= 141.61
 PC= 340.21.46
 PT= 351.37.25
 SE= 0.050'
 RO= 137.50'



BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
22	354.47	R.R. SPIKE IN 40' ELM, 49' LT.	780.41
23	356.43	R.R. SPIKE IN TRANS. POLE #18, 113' RT.	780.23

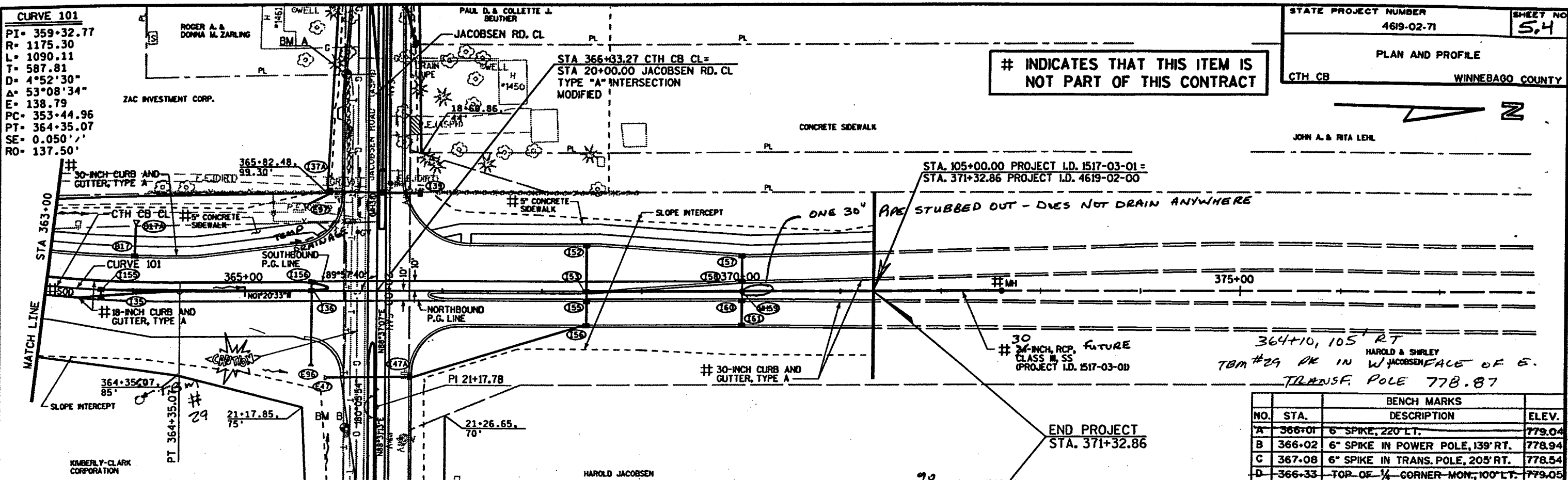


CURVE 101
 PI= 359+32.77
 R= 1175.30
 L= 1090.11
 T= 587.81
 D= 4°52'30"
 Δ= 53°08'34"
 E= 138.79
 PC= 353+44.96
 PT= 364+35.07
 SE= 0.050'
 RO= 137.50'

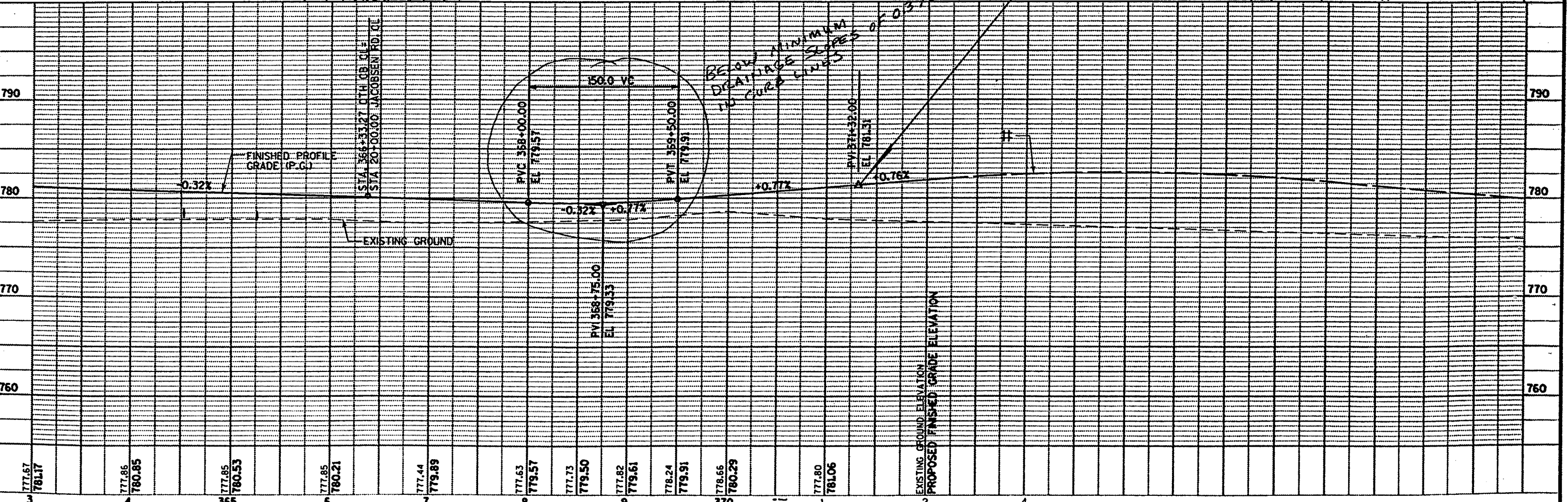
STATE PROJECT NUMBER
 4619-02-71
 SHEET NO
 5.4
 PLAN AND PROFILE
 CTH CB WINNEBAGO COUNTY

INDICATES THAT THIS ITEM IS NOT PART OF THIS CONTRACT

JOHN A. & RITA LEHL



BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
A	366+01	6" SPIKE, 220' LT.	779.04
B	366+02	6" SPIKE IN POWER POLE, 139' RT.	778.94
C	367+08	6" SPIKE IN TRANS. POLE, 205' RT.	778.54
D	366+33	TOP OF 1/4 CORNER-MON, 100' LT.	779.05



AVERAGE END AREA VOLUMES

STATION	END AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE		EXP FAC	M A S H A U L
	CUT	FILL	CUT	FILL	CUT	FILL		
308 + 80	0.0	0.0	0.0	148.9	0.0	193.6	1.3	-193.6
309 + 00	7.4	80.4	13.7	859.1	13.7	1116.8	1.3	-1103.1
310 + 00	0.0	383.5	40.4	1091.9	54.1	2536.2	1.3	-2482.1
311 + 00	21.8	206.1	78.5	683.5	132.6	3424.8	1.3	-3292.2
312 + 00	20.6	163.0	87.6	481.9	220.2	4051.2	1.3	-3831.0
313 + 00	26.7	97.2	96.1	192.2	316.3	4301.1	1.3	-3984.8
314 + 00	25.2	6.6	178.3	129.6	494.6	4469.6	1.3	-3975.0
315 + 00	71.1	63.4	225.4	360.0	720.0	4937.6	1.3	-4217.6
316 + 00	50.6	131.0	150.9	550.7	870.9	5653.6	1.3	-4782.6
317 + 00	30.9	166.4	79.3	663.9	950.2	6516.6	1.3	-5566.4
318 + 00	11.9	192.1	41.7	690.7	991.9	7414.6	1.3	-6422.7
319 + 00	10.6	180.9	104.3	546.9	1096.1	8125.5	1.3	-7029.4
320 + 00	45.7	114.4	883.5	263.9	1979.6	8468.5	1.3	-6488.9
321 + 00	431.4	28.1	1239.3	52.0	3218.9	8536.2	1.3	-5317.3
322 + 00	237.8	0.0	1016.1	0.0	4235.0	8536.2	1.3	-4301.2
323 + 00	310.9	0.0	1535.6	0.0	5770.6	8536.2	1.3	-2765.6
324 + 00	518.3	0.0	1105.2	134.4	6875.7	8711.0	1.3	-1835.2
325 + 00	78.5	72.6	145.4	2008.0	7021.1	11321.3	1.3	-4300.2
326 + 00	0.0	1011.7	0.0	4531.1	7021.1	17211.8	1.3	-10190.6
327 + 00	0.0	1435.1	0.0	6684.6	7021.1	25901.8	1.3	-18880.7
328 + 00	0.0	2174.6	0.0	9376.3	7021.1	38091.0	1.3	-31069.9
329 + 00	0.0	2888.6	0.0	11957.6	7021.1	53635.8	1.3	-46614.7
330 + 00	0.0	3568.5	0.0	13802.4	7021.1	71579.0	1.3	-64557.9
331 + 00	0.0	3884.8	0.0	14587.6	7021.1	90542.8	1.3	-83521.7
332 + 00	0.0	3992.5	0.0	16734.1	7021.1	112297.1	1.3	-105276.0
333 + 00	0.0	5043.9	0.0	19930.7	7021.1	138207.1	1.3	-131186.0
334 + 00	0.0	5718.7	0.0	21529.4	7021.1	166195.4	1.3	-159174.3
335 + 00	0.0	5907.2	0.0	23818.9	7021.1	197159.9	1.3	-190138.8
337 + 00	0.0	6955.0	0.0	25811.3	7021.1	230714.6	1.3	-223693.5
338 + 00	0.0	6983.1	0.0	23396.5	7021.1	261130.0	1.3	-254108.9
339 + 00	0.0	5651.0	0.0	19557.8	7021.1	286555.1	1.3	-279534.0
340 + 00	0.0	4910.2	0.0	16503.0	7021.1	308009.0	1.3	-300987.9
341 + 00	0.0	4001.4	0.0	13048.1	7021.1	324971.6	1.3	-317950.5
342 + 00	0.0	3044.6	0.0	9920.2	7021.1	337867.8	1.3	-330846.7
343 + 00	0.0	2312.3	0.0	7936.7	7021.1	348185.5	1.3	-341164.4
344 + 00	0.0	1973.5	0.0	7073.1	7021.1	357380.6	1.3	-350359.5
345 + 00	0.0	1846.0	0.0	6111.5	7021.1	365325.5	1.3	-358304.4
346 + 00	0.0	1454.2	0.0	5450.6	7021.1	372411.2	1.3	-365390.1
347 + 00	0.0	1489.1	0.0	5265.4	7021.1	379256.2	1.3	-372235.1
348 + 00	0.0	1354.2	0.0	4836.7	7021.1	385543.9	1.3	-378522.8
349 + 00	0.0	1257.6	0.0	4674.1	7021.1	391620.2	1.3	-384599.1
350 + 00	0.0	1266.4	0.0	4140.9	7021.1	397003.4	1.3	-389982.3
351 + 00	0.0	969.7	0.0	3529.3	7021.1	401591.4	1.3	-394570.3
352 + 00	0.0	936.1	0.0	4004.4	7021.1	406797.2	1.3	-399776.1
353 + 00	0.0	1226.3	0.0	4553.9	7021.1	412717.3	1.3	-405696.1
354 + 00	0.0	1232.8	5.7	4503.7	7026.9	418572.1	1.3	-411545.2
355 + 00	3.1	1199.2	10.2	3765.9	7037.0	423467.8	1.3	-416430.7

356 + 00	2.4	834.4	10.2	3765.9	7037.0	423467.8	1.3	-416430.7
357 + 00	1.1	729.1	6.5	2895.4	7043.5	427231.8	1.3	-420188.2
358 + 00	0.7	677.7	3.3	2605.2	7046.9	430618.5	1.3	-423571.6
359 + 00	3.7	482.9	8.1	2149.3	7055.0	433412.5	1.3	-426357.5
360 + 00	4.3	364.4	14.8	1569.1	7069.8	435452.3	1.3	-428382.5
361 + 00	6.0	300.4	19.1	1231.1	7088.9	437052.8	1.3	-429963.9
362 + 00	8.0	324.4	25.9	1157.0	7114.8	438556.9	1.3	-431442.1
363 + 00	7.1	297.9	28.0	1152.4	7142.8	440055.1	1.3	-432912.3
364 + 00	12.0	276.3	35.4	1063.3	7178.1	441437.4	1.3	-434259.2
365 + 00	22.9	186.2	64.6	856.5	7242.8	442550.8	1.3	-435308.0
366 + 00	0.0	42.0	42.4	422.6	7285.2	443100.2	1.3	-435815.0
367 + 00	0.0	162.9	0.0	379.4	7285.2	443593.5	1.3	-436308.3
368 + 00	42.1	79.9	78.0	449.6	7363.1	444178.0	1.3	-436814.8
369 + 00	3.2	67.7	83.9	273.3	7447.0	444533.3	1.3	-437086.3
370 + 00	3.2	83.8	11.9	280.6	7458.9	444898.0	1.3	-437439.1
371 + 00	0.0	292.6	5.9	697.0	7464.8	445804.2	1.3	-438339.4
371 + 33	0.0	0.0	0.0	178.8	7464.8	446036.6	1.3	-438571.8

AVERAGE END AREA VOLUMES

STATION	END AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE		EXP FAC	M A S H A U L
	CUT	FILL	CUT	FILL	CUT	FILL		
12 + 00	61.4	0.0	113.7	0.0	113.7	0.0	1.3	113.7
13 + 00	66.1	0.0	236.1	0.0	349.8	0.0	1.3	349.8
15 + 00	201.6	0.0	991.5	0.0	1341.3	0.0	1.3	1341.3
16 + 00	128.7	0.0	611.7	0.0	1953.0	0.0	1.3	1953.0
17 + 00	92.3	0.0	409.3	0.0	2362.2	0.0	1.3	2362.2
18 + 00	89.8	1.3	337.2	2.4	2699.4	3.1	1.3	2696.3
19 + 00	58.6	51.2	274.8	97.2	2974.3	129.5	1.3	2844.7
20 + 00	0.0	0.0	108.5	94.8	3082.8	252.8	1.3	2830.0
21 + 00	2.5	109.6	4.6	203.0	3087.4	516.6	1.3	2570.8
22 + 00	14.1	40.0	30.7	277.0	3118.1	876.8	1.3	2241.4
23 + 00	23.6	28.1	69.8	126.1	3188.0	1040.7	1.3	2147.2
24 + 00	65.6	20.0	165.2	89.1	3353.1	1156.5	1.3	2196.6
25 + 00	49.9	31.0	213.9	94.4	3567.0	1279.3	1.3	2287.7
26 + 00	23.8	47.8	136.5	145.9	3703.5	1469.0	1.3	2234.5
27 + 00	45.1	4.6	127.6	97.0	3831.1	1595.1	1.3	2236.0
28 + 00	42.3	0.0	161.9	8.5	3993.0	1606.2	1.3	2386.7
29 + 00	41.8	0.0	155.7	0.0	4148.7	1606.2	1.3	2542.5
30 + 00	42.1	0.0	155.4	0.0	4304.1	1606.2	1.3	2697.9

AVERAGE END AREA VOLUMES

JACOBSEN ROAD

STATION	END AREA		VOLUME INCREMENTAL		VOLUME CUMULATIVE		EXP FAC	MASS HAUL
	CUT	FILL	CUT	FILL	CUT	FILL		
14 + 00	66.4	30.4	123.0	56.3	123.0	73.2	1.3	49.8
15 + 00	76.5	19.5	141.7	36.1	141.7	46.9	1.3	94.7
16 + 00	72.0	12.2	275.0	58.7	416.7	123.3	1.3	293.4
17 + 00	87.5	2.0	295.4	26.3	712.0	157.4	1.3	554.6
18 + 00	40.2	19.0	236.5	38.9	948.5	208.0	1.3	740.5
19 + 00	26.4	39.3	123.3	108.0	1071.9	348.4	1.3	723.5
20 + 00	0.0	0.0	48.9	72.8	1120.7	443.0	1.3	677.8
21 + 00	46.8	18.1	86.7	33.5	1207.4	486.5	1.3	720.9
22 + 00	29.2	23.1	140.7	76.3	1348.1	585.7	1.3	762.4
23 + 00	54.3	11.2	154.6	63.5	1502.8	668.3	1.3	834.5
24 + 00	62.8	12.1	216.9	43.1	1719.6	724.4	1.3	995.2
25 + 00	80.3	0.0	265.0	22.4	1984.6	753.5	1.3	1231.1
26 + 00	122.4	0.0	375.4	0.0	2360.0	753.5	1.3	1606.5

ROCK EXCAVATION

CTH CB

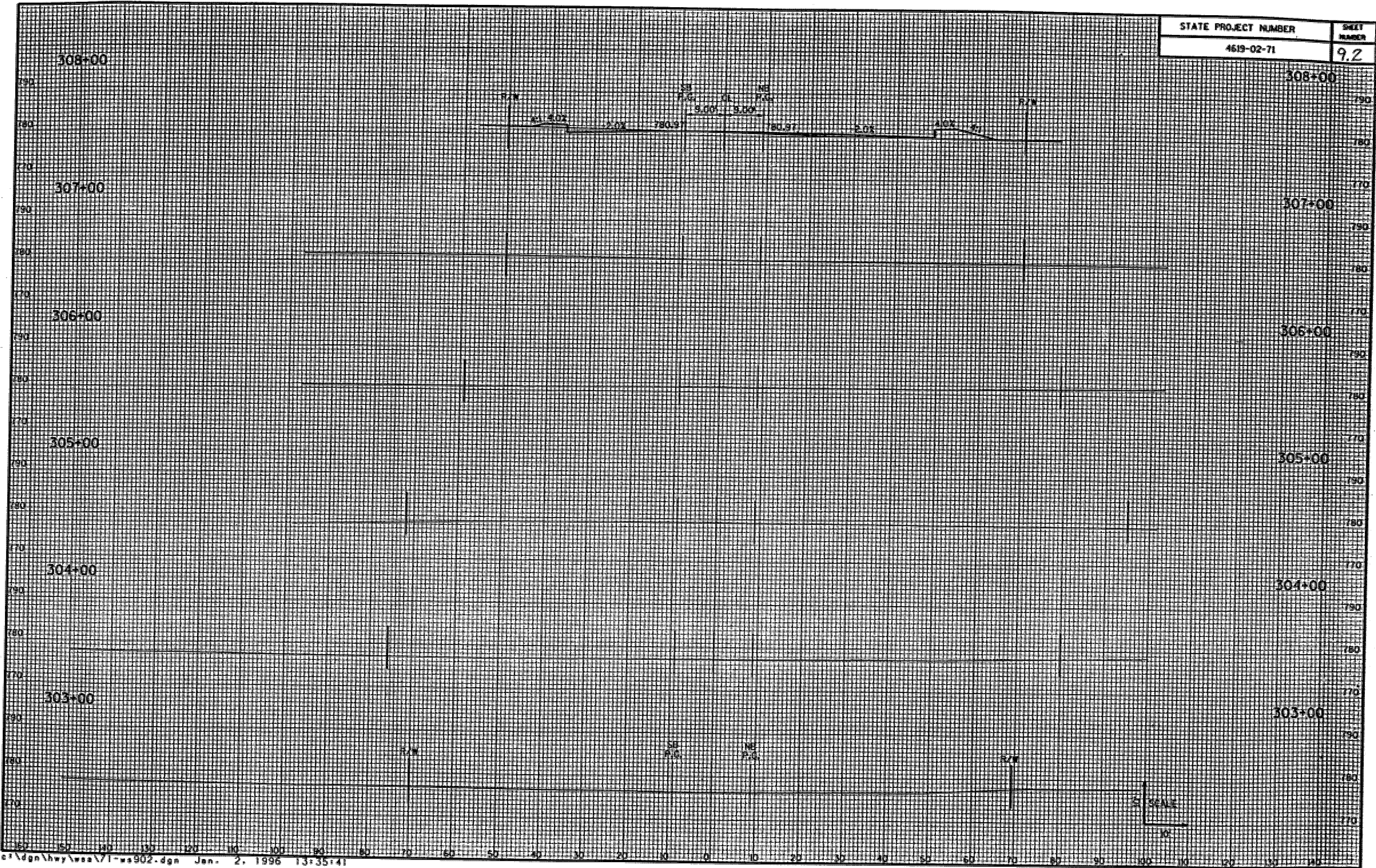
STATION	LOCATION	END AREA	INCREMENTAL VOLUME	CUMULATIVE VOLUME
318+00	CTH CB, LT	0.0		
319+00	CTH CB, LT	4.0	7.4	7.4
320+00	CTH CB, LT	11.0	27.8	35.2
321+00	CTH CB, LT	5.0	29.6	64.8
322+00	CTH CB, LT	0.0	9.3	74.1
318+00	CTH CB, RT	0.0	0.0	74.1
319+00	CTH CB, RT	1.0	1.9	75.9
320+00	CTH CB, RT	10.0	20.4	96.3
321+00	CTH CB, RT	3.0	24.1	120.4
322+00	CTH CB, RT	0.0	5.6	125.9
			0.0	125.9
	UNDISTRIBUTED		80.0	205.9

EXCAVATION BELOW SUBGRADE (EBS)

CTH CB

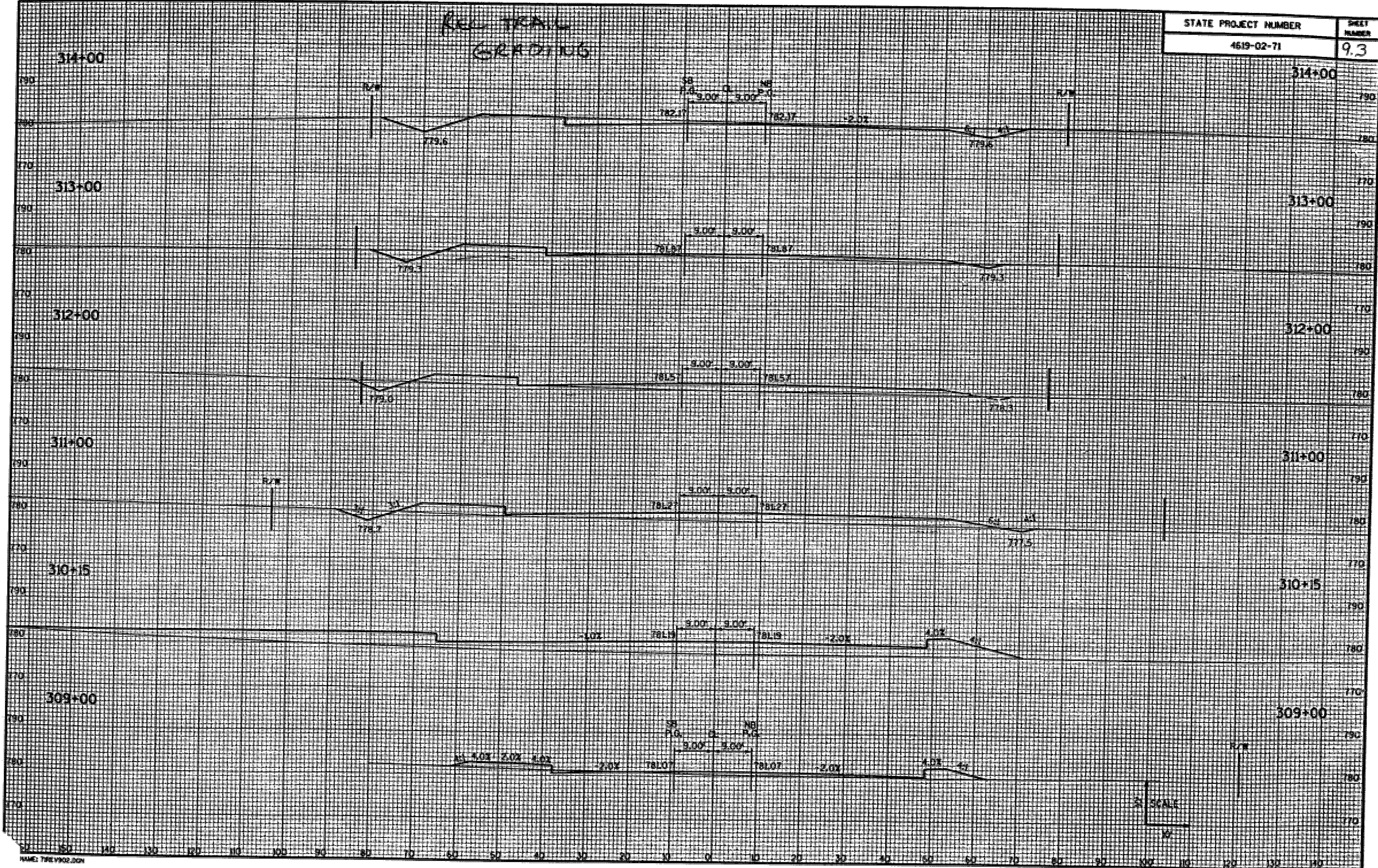
STATION	END AREA	INCREMENTAL VOLUME	CUMULATIVE VOLUME
336 + 00	0.0		
327 + 00	206.0	381.5	381.5
328 + 00	150.0	659.3	1040.7
329 + 00	70.0	407.4	1448.1
330 + 00	0.0	129.6	1577.8
336 + 00	0.0	0.0	1577.8
337 + 00	234.0	433.3	2011.1
338 + 00	230.0	859.3	2870.4
339 + 00	0.0	425.9	3296.3
346 + 00	0.0	0.0	3296.3
347 + 00	130.0	240.7	3537.0
348 + 00	126.0	474.1	4011.1
349 + 00	124.0	463.0	4474.1
350 + 00	120.0	451.9	4925.9
353 + 00	120.0	444.4	5370.4
354 + 00	90.0	388.9	5759.3
355 + 00	120	388.9	6148.1
356 + 00	0	222.2	6370.4
		TOTAL	6370.4

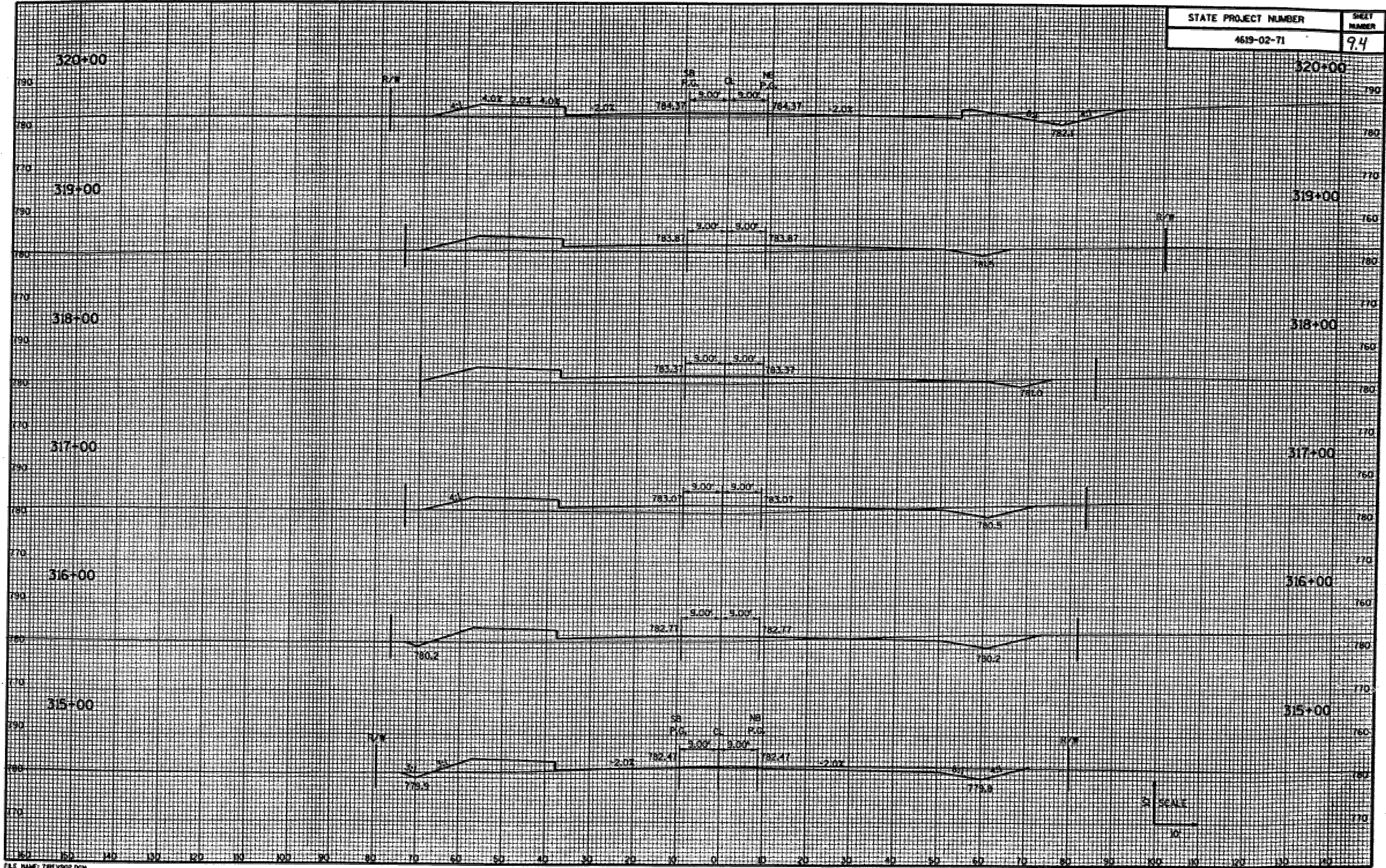
STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9.2



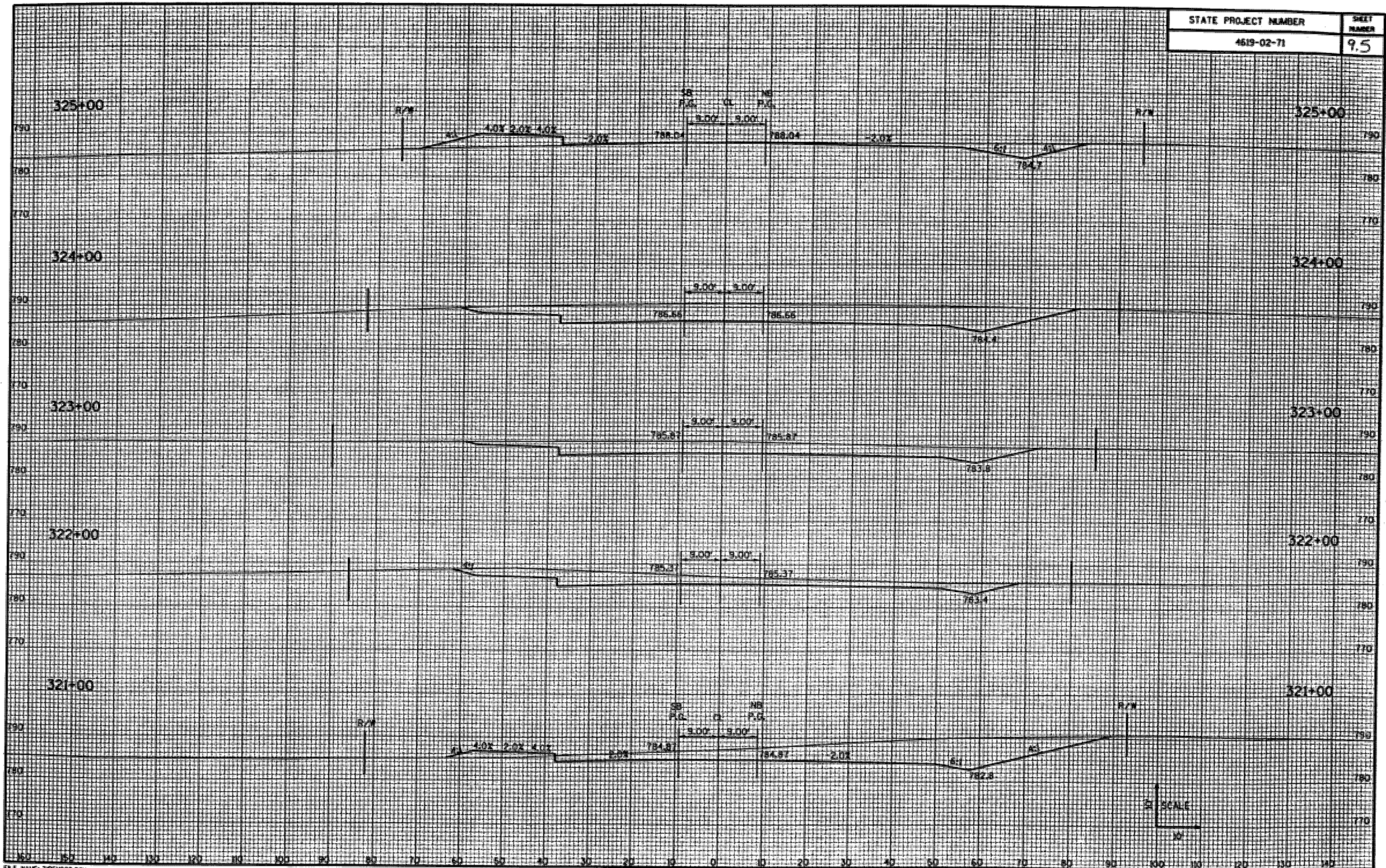
RED TRAIL
GRADING

STATE PROJECT NUMBER	SHEET NUMBER
4519-02-71	9.3

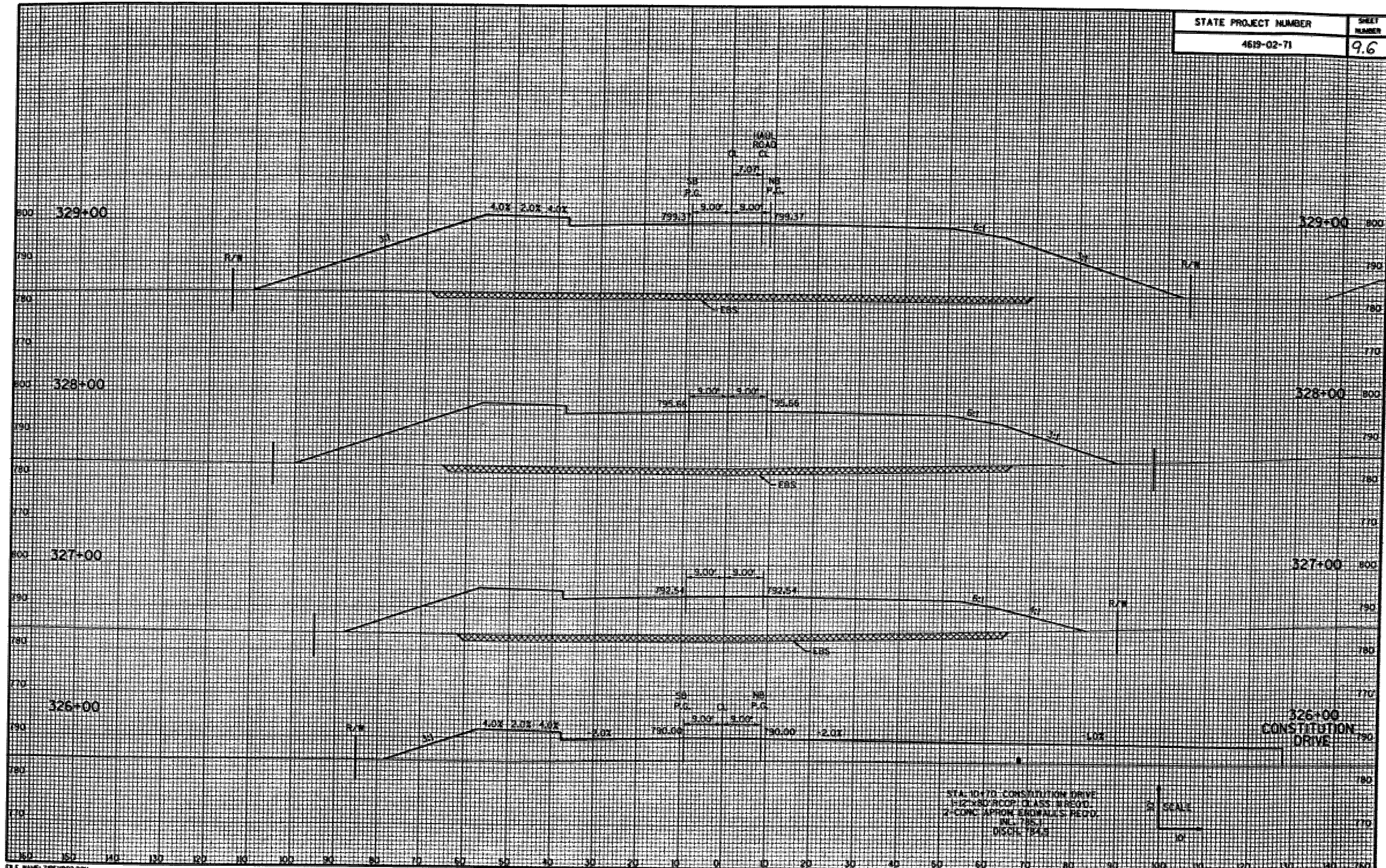


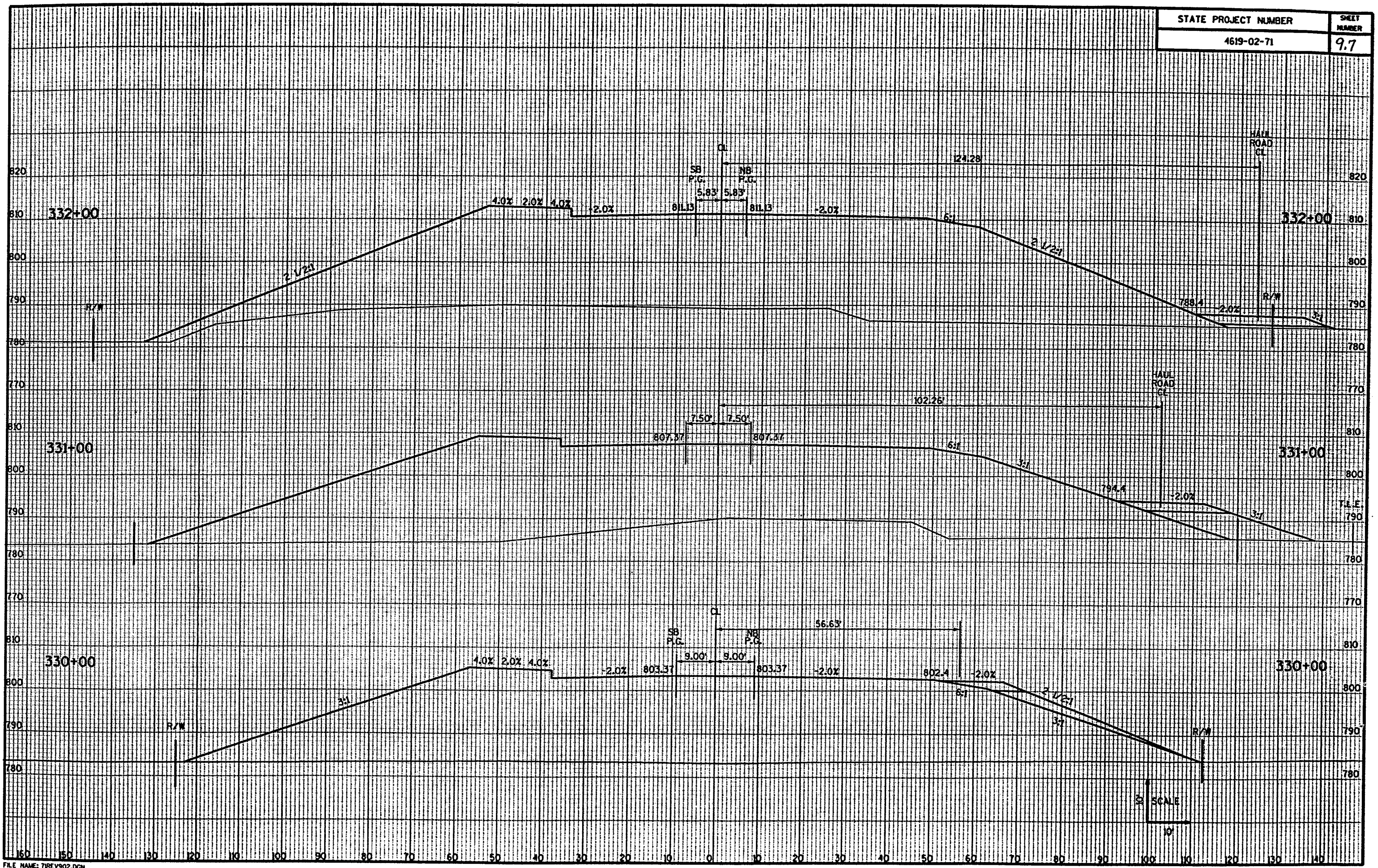


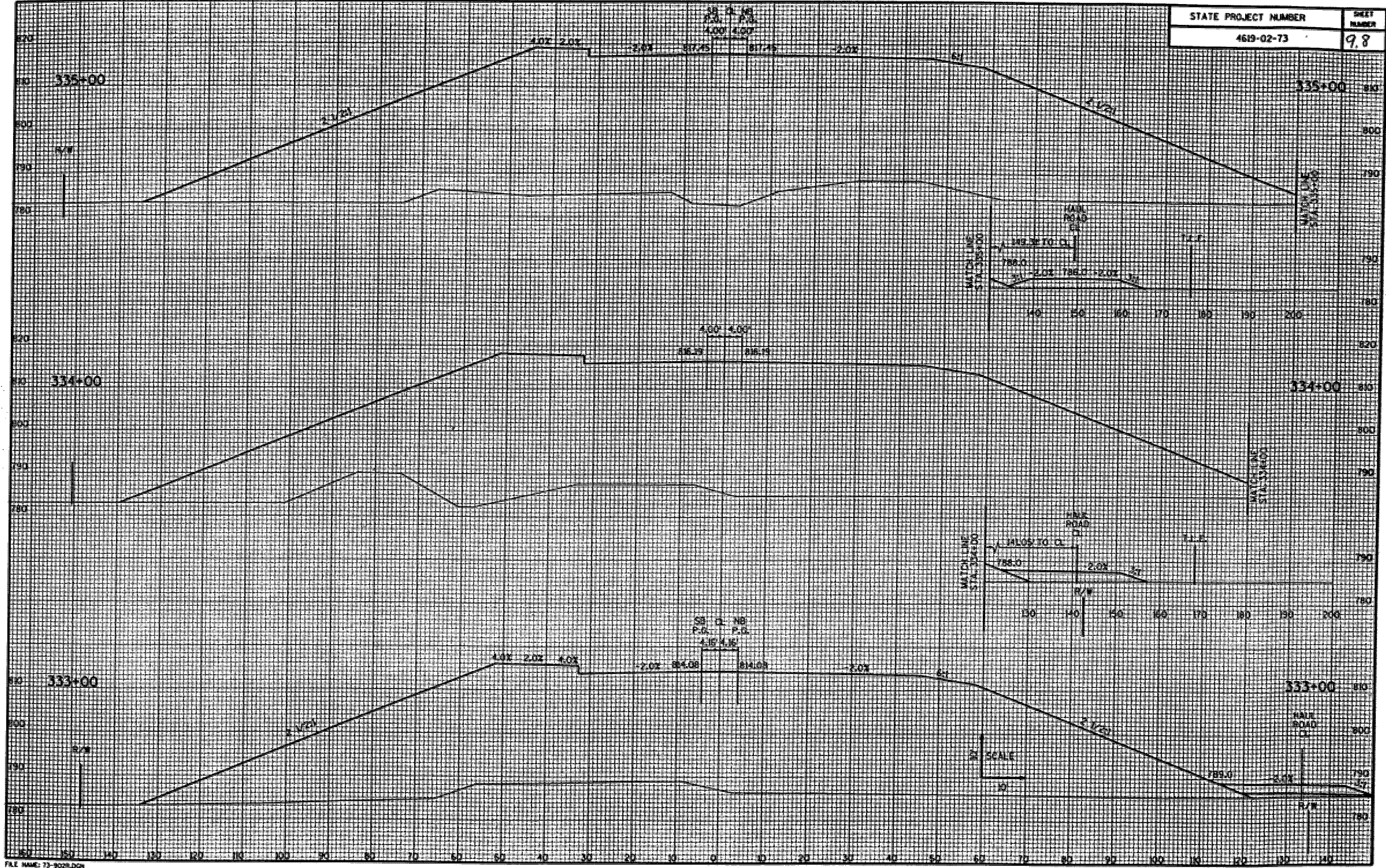
STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9.5

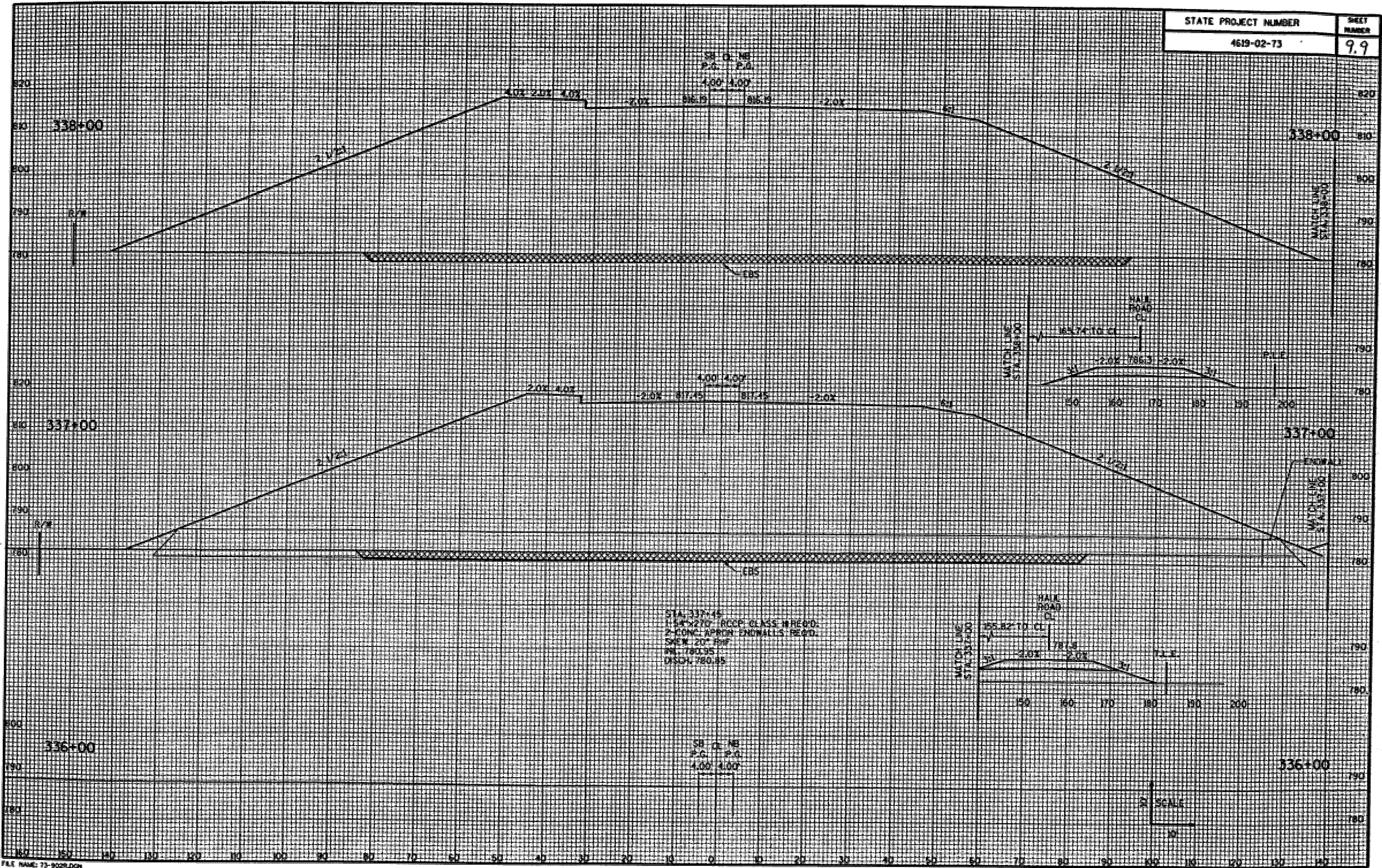


SCALE
1" = 10'









ST. 0.15
 P.C. 1.00
 1.00 1.00

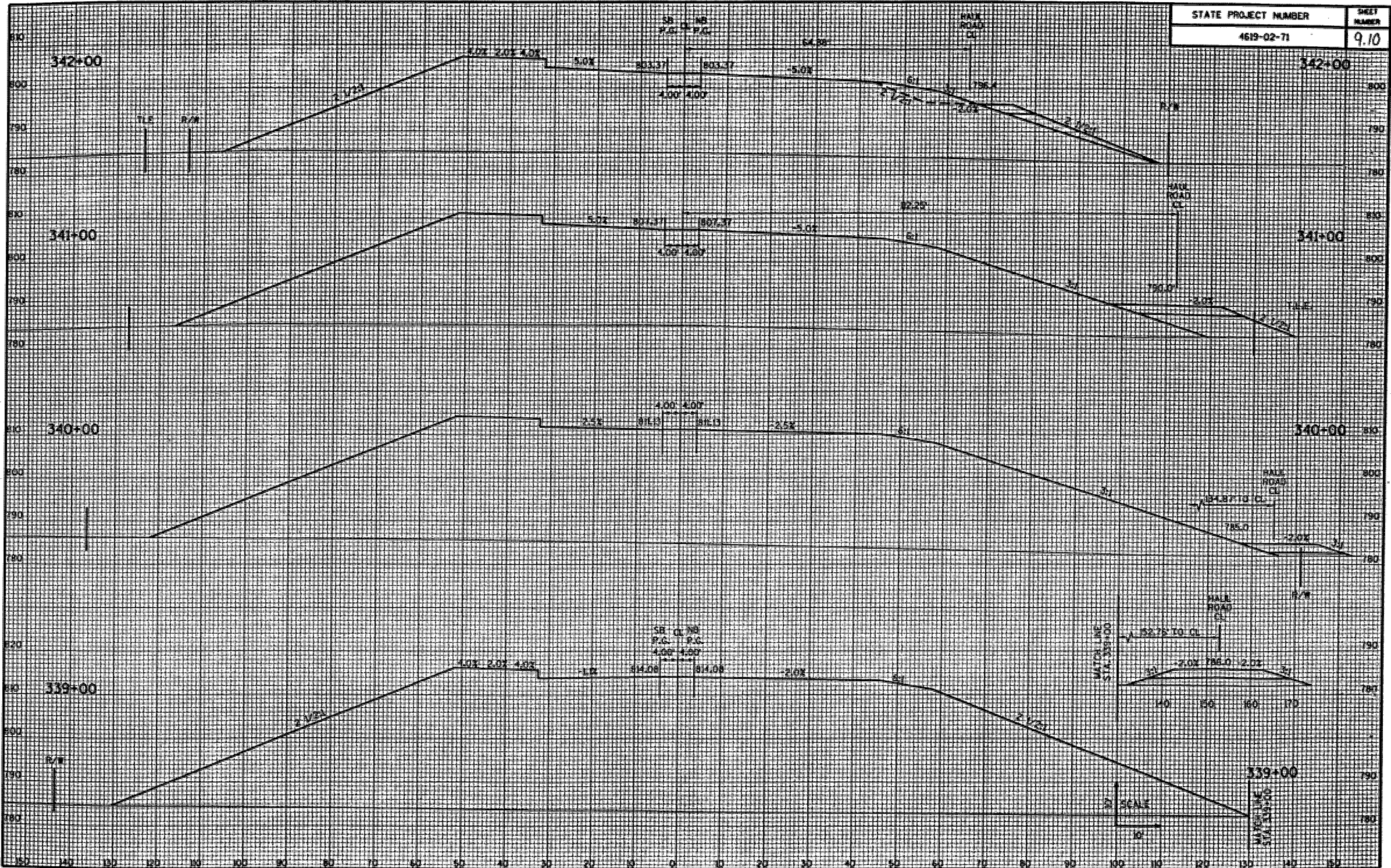
1.00 1.00
 P.C. 1.00
 1.00 1.00

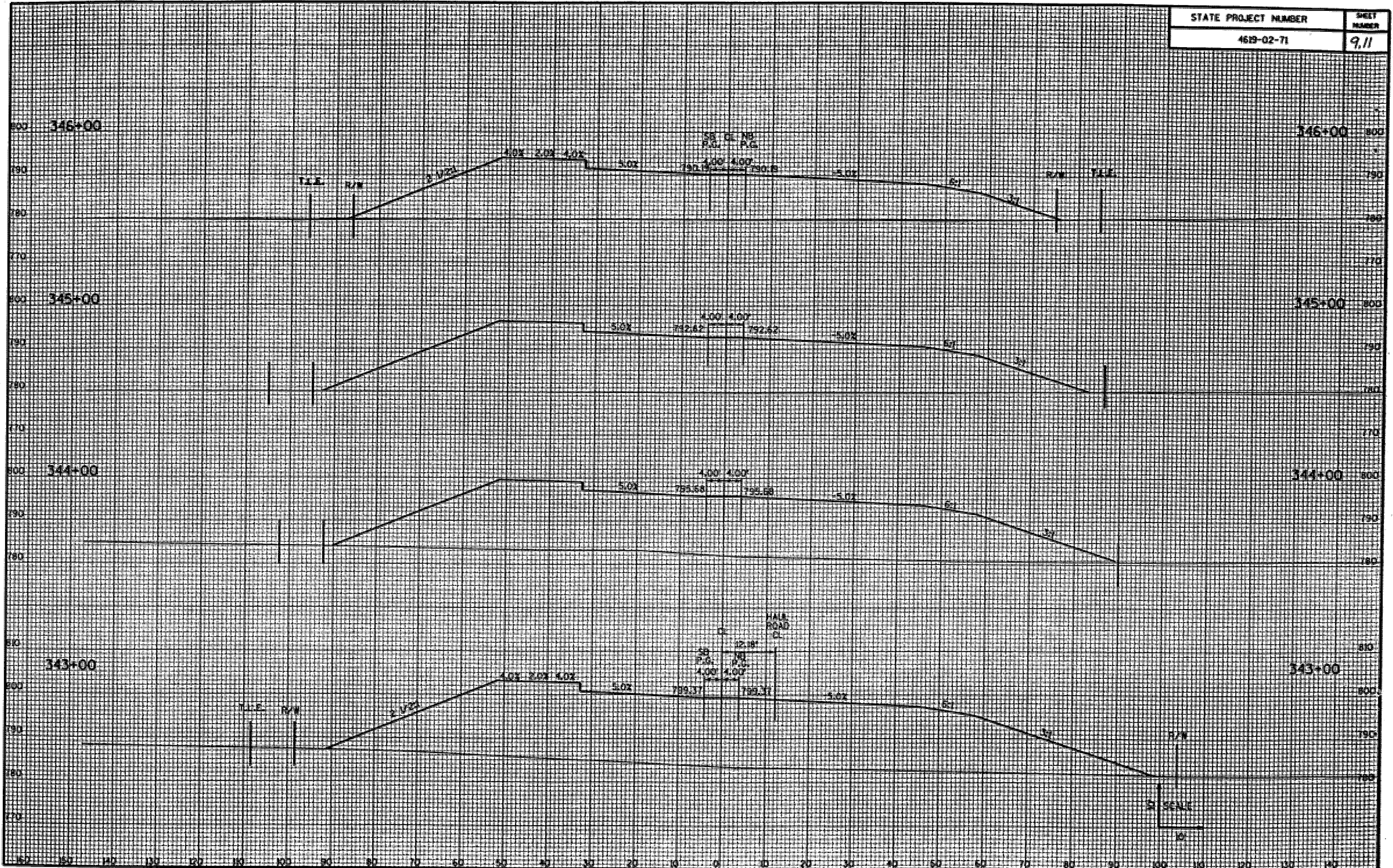
STA. 337+45
 1-1.5'x21" RECP. CLASS # REVD.
 2-CONC. APRON-DIM'NALS REVD.
 SKEW 20° SW
 RL 780.35
 DSDN 780.85

ST. 0.15
 P.C. 1.00
 1.00 1.00

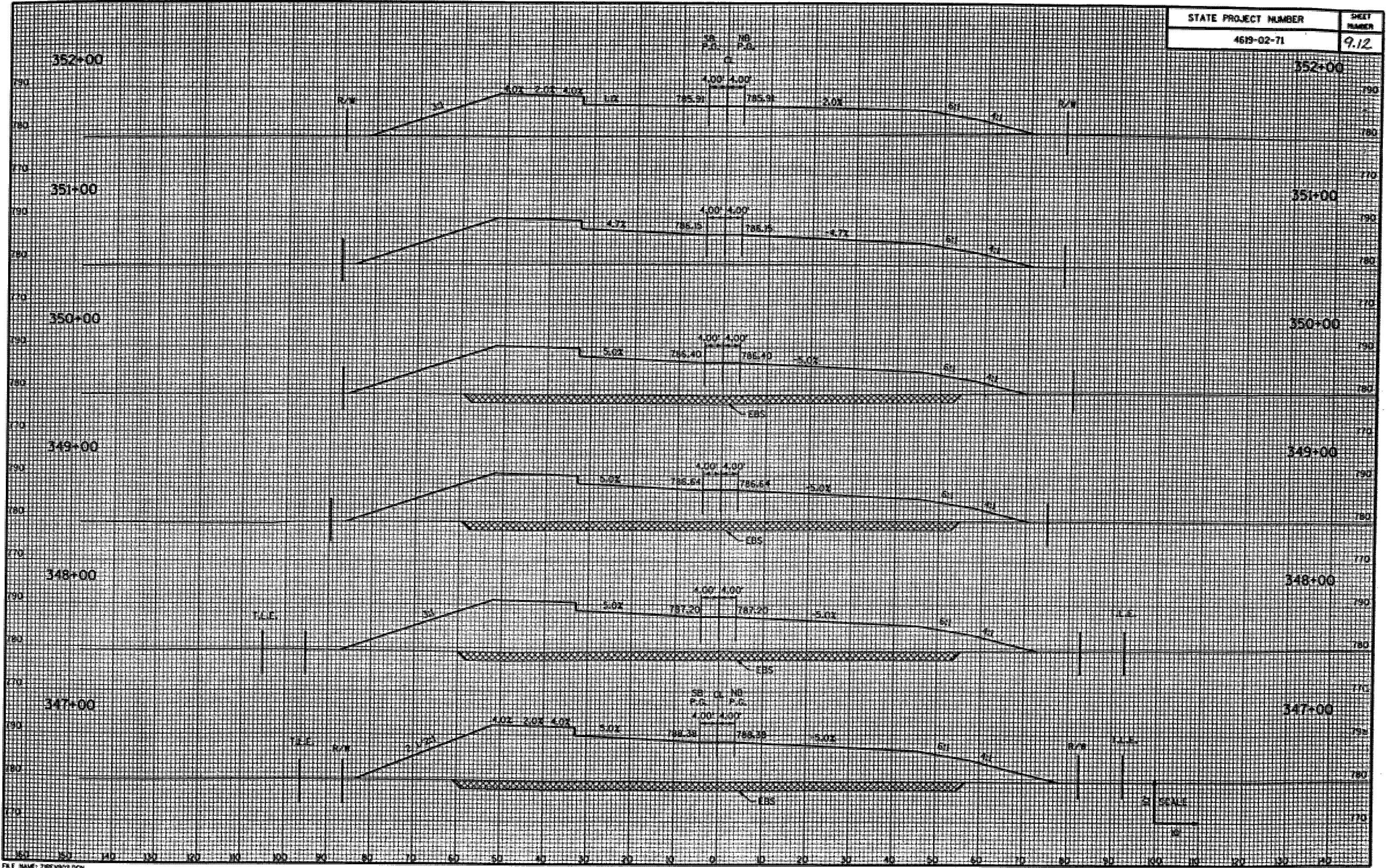
SCALE

STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9.10

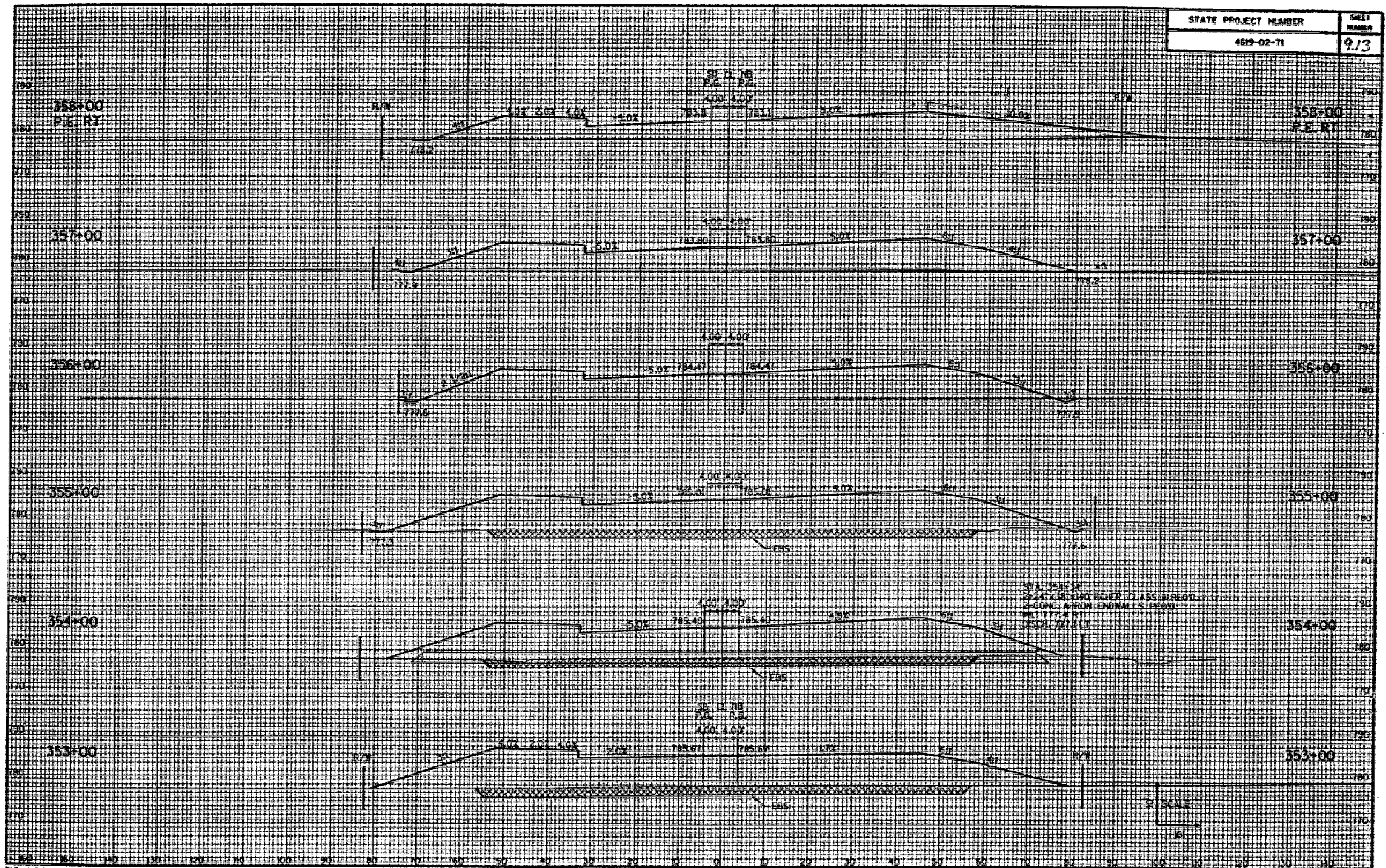




STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9.12



STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9/13



STATE PROJECT NUMBER	SHEET NUMBER
4619-02-71	9.15

