

### STATE OF MINNESOTA DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR 109TH. AVE. NE.

## County Highway No. 112

Between STATE TRUNK HIGHWAY 65 And RADISSON ROAD

From SECTION 20, T. 31, R. 23 To SECTION 21, T. 31, R. 23

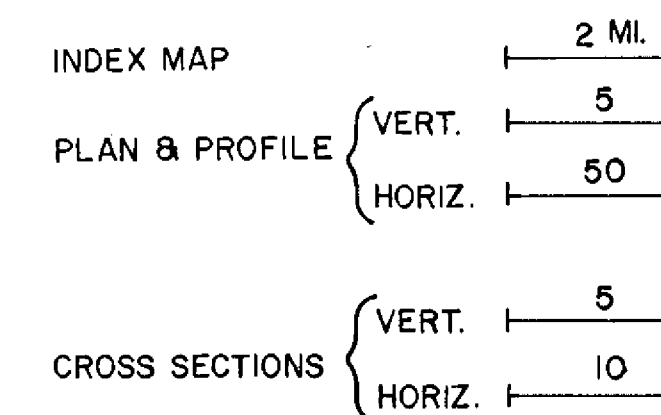
Give project reference to Section 2, Township and Range

|                   |      |      |      |       |
|-------------------|------|------|------|-------|
| GROSS LENGTH      | 6030 | FEET | 1.14 | MILES |
| BRIDGES LENGTH    | 0    | FEET | 0    | MILES |
| EXCEPTIONS LENGTH | 0    | FEET | 0    | MILES |
| NET LENGTH        | 6030 | FEET | 1.14 | MILES |

#### INDEX OF SHEETS

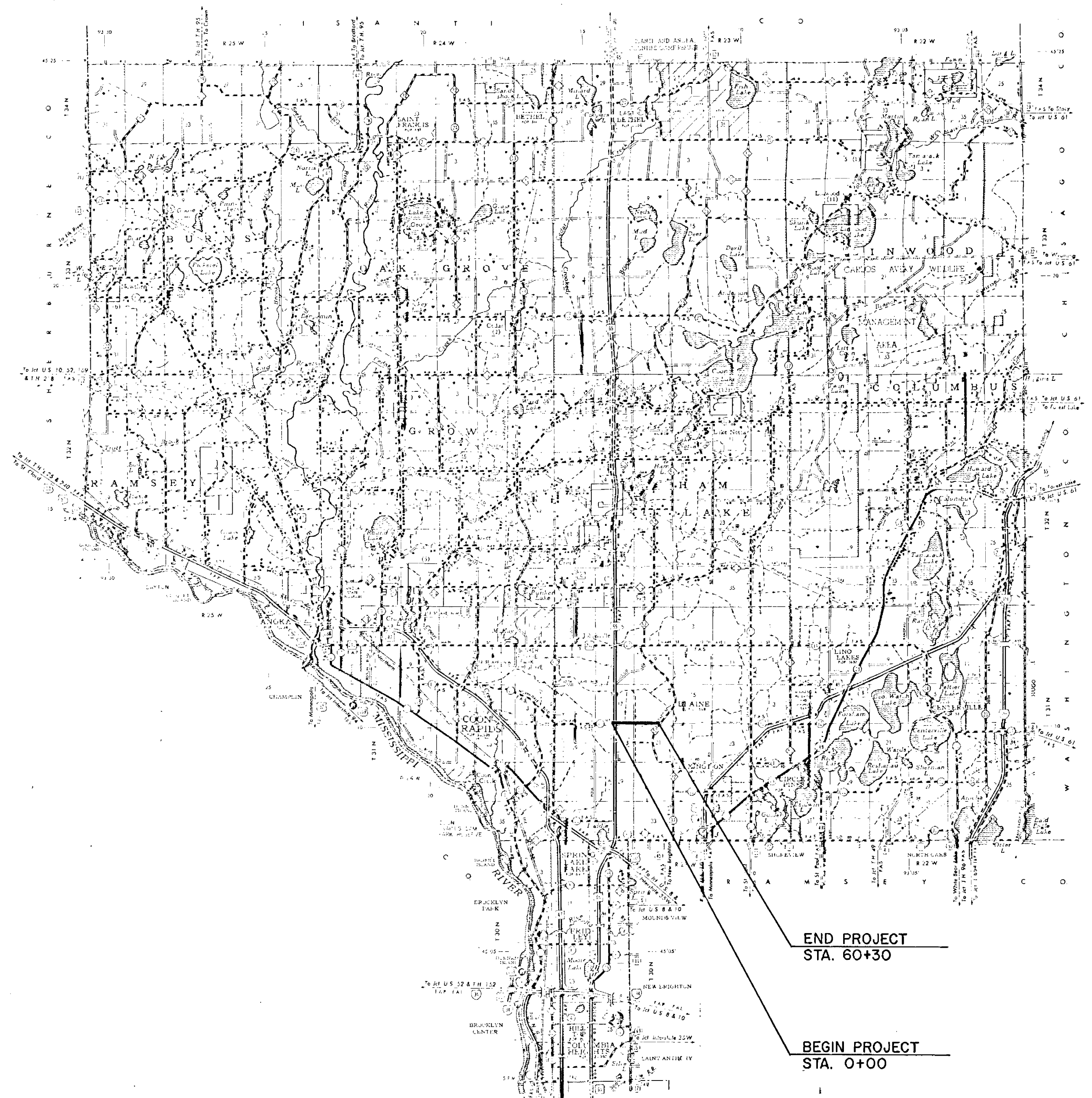
- Sheet No. 1 Title Sheet & Layout Map
- No. 2 Fst. Quantities & Typical Sec.
- No. 3 To 7 Plan & Profile
- No. 8 To 26 Cross Sections

#### SCALE



#### CONVENTIONAL SIGNS

|  |  |
|--|--|
| STATE LINE                             |  |
| COUNTY LINE                            |  |
| TOWNSHIP OR RANGE LINE                 |  |
| SECTION LINE                           |  |
| QUARTER LINE                           |  |
| SECTION CORNER                         |  |
| RIGHT OF WAY LINE                      |  |
| PROPOSED RIGHT OF WAY LINE             |  |
| CURB OF ACCESS LINE                    |  |
| PROPERTY LINE (E.C., E.L., E.C., E.L.) |  |
| ROAD TO PLANTED VARIETY                |  |
| CONTRACTOR'S CITY LINE                 |  |
| TRUCKING CENTER LINE                   |  |
| RETAINING WALL                         |  |
| RAILROAD                               |  |
| RAILROAD RIGHT OF WAY LINE             |  |
| RIVER OR STREAM                        |  |
| DAY CRAWL                              |  |
| CRANAGE DITCH                          |  |
| ELECTRIC POWER LINE                    |  |
| TELEPHONE OR TELEGRAPH LINE            |  |
| CONDUIT                                |  |
| TELEPHONE CABLE (AIRIAL)               |  |
| TELEPHONE CABLE (UNDERGROUND)          |  |
| CABLE (UNDERGROUND)                    |  |
| GAS MAIN                               |  |
| CONCRETE                               |  |
| CEMENT                                 |  |
| GRAVEL                                 |  |
| ROAD DATE                              |  |
| NO. ON MAIN ROAD                       |  |
| NO. ON AIDE FENCE                      |  |
| ROADSIDE SIGN (AIDE)                   |  |
| ROADSIDE SIGN (SIDE)                   |  |
| ROADSIDE SIGN (CORNER)                 |  |
| ROADSIDE SIGN (TRUCK)                  |  |
| ROADSIDE SIGN (CROSSING)               |  |
| ROADSIDE SIGN (WATER)                  |  |
| ROADSIDE SIGN (DANGER)                 |  |
| ROADSIDE SIGN (SCHOOL)                 |  |
| ROADSIDE SIGN (VILLAGE)                |  |
| ROADSIDE SIGN (CITY)                   |  |
| ROADSIDE SIGN (TOWNSHIP)               |  |
| ROADSIDE SIGN (COUNTY)                 |  |
| ROADSIDE SIGN (STATE)                  |  |
| ROADSIDE SIGN (FEDERAL)                |  |
| ROADSIDE SIGN (NATIONAL)               |  |
| ROADSIDE SIGN (INTERNATIONAL)          |  |
| ROADSIDE SIGN (OTHER)                  |  |



END PROJECT  
STA. 60+30

BEGIN PROJECT  
STA. 0+00

#### DESIGN DESIGNATION

ADT (CURRENT YEAR) 0  
 ADT (FUTURE YEAR) 14,300  
 (HEAVY COMMERCIAL)  
9 Ton Design  
 Design Speed 55 MPH  
 Design Speed not achieved at:  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH

SPECIFICATIONS  
THE "STANDARD" SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (1983, EDITION) SHALL GOVERN.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH, IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Paul K. Lund*  
COUNTY ENGINEER      DATE 8/20/84

ANOCA COUNTY      REG. NO. 6549

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 19\_\_\_\_  
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_ 19\_\_\_\_

APPROVED \_\_\_\_\_ 19\_\_\_\_  
STATE AID ENGINEER

*REVISED 1-4-85 Pjfk*

Minn. Proj. No. \_\_\_\_\_ County Proj. No. 84-16-112  
State Proj. No. \_\_\_\_\_ S.A.P. \_\_\_\_\_

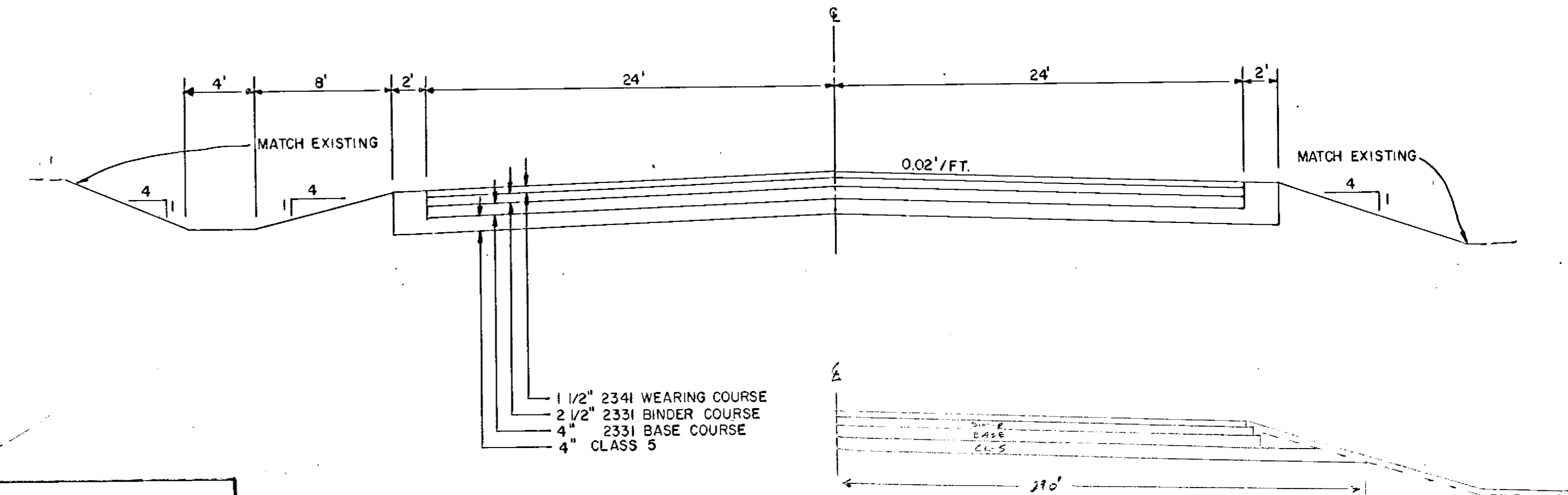
STATEMENT OF ESTIMATED QUANTITIES

| ITEM NO. | ITEM                                     | UNIT             | TOTAL EST. QUANTITIES | TOTAL FINAL QUANTITIES |
|----------|--|------------------|-----------------------|------------------------|
| 2051.501 | FIELD OFFICE - TYPE D                    | EACH             | 1                     |                        |
| 0563.601 | TRAFFIC CONTROL                          | L.S.             | 1                     |                        |
| 2101.501 | CLEARING                                 | ACRE             | 0.1                   |                        |
| 2101.506 | GRUBBING                                 | ACRE             | 0.1                   |                        |
| 2557.521 | WOOD BRACE ASSEMBLIES                    | EACH             | 8                     |                        |
| 2104.501 | REMOVE BARBED WIRE FENCE                 | L.F.             | 1300                  |                        |
| 2557.501 | WIRE FENCE, DESIGN BARBED WIRE           | L.F.             | 1200                  |                        |
| 2104.509 | REMOVE BARRICADE                         | EACH             | 1                     |                        |
| 2104.523 | SALVAGE HYDRANT AND VALVE                | EACH             | 2                     |                        |
| 0504.602 | INSTALL HYDRANT AND VALVE                | EACH             | 2                     |                        |
| 0504.063 | 6" WATER MAIN, DUCTILE IRON              | L.F.             | 20                    |                        |
| 2105.501 | COMMON EXCAVATION                        | CU. YD.          | 8,033                 |                        |
| 2105.505 | MUCK EXCAVATION                          | CU. YD.          | 30,746                |                        |
| 2105.523 | COMMON BORROW (EV)                       | CU. YD.          | 28,600                |                        |
| 2211.501 | AGGREGATE BASE, CLASS 5A                 | TON              | 7800                  |                        |
| 2331.504 | BITUMINOUS MATERIAL FOR MIXTURE          | TON              | 656                   |                        |
| 2331.510 | BINDER COURSE MIXTURE                    | TON              | 4481                  |                        |
| 2331.514 | BASE COURSE MIXTURE                      | TON              | 6453                  |                        |
| 0331.603 | SAWING BITUMINOUS PAVEMENT SURFACE       | L.F.             | 90                    |                        |
| 2341.504 | BITUMINOUS MATERIAL FOR MIXTURE          | TON              | 175                   |                        |
| 2341.508 | WEARING COURSE MIXTURE                   | TON              | 2688                  |                        |
| 2357.502 | BITUMINOUS MATERIAL FOR TACK COAT        | GAL.             | 1580                  |                        |
| 2130.501 | WATER                                    | 1000 (M) GALLONS | 20                    |                        |
| 2501.511 | 18" RCP CULVERT CL. II                   | L.F.             | 64                    |                        |
| 2501.515 | 18" RCP APRONS                           | EACH             | 2                     |                        |
| 2501.511 | 66" RCP CULVERT CL. II                   | L.F.             | 180                   |                        |
| 2501.515 | 66" RCP APRONS                           | EACH             | 4                     |                        |
| 2511.505 | HAND-PLACED RIPRAP CL. A                 | C.Y.             | 91                    |                        |
| 2511.511 | GRANULAR FILTER TYPE 1                   | C.Y.             | 46                    |                        |
| 2506.522 | ADJUST FRAME & RING CASTINGS             | EACH             | 4                     |                        |
| 0504.602 | ADJUST VALVE BOX CASTINGS                | EACH             | 2                     |                        |
| 2575.501 | ROADSIDE SEEDING                         | ACRE             | 8.2                   |                        |
| 2575.502 | SEED MIXTURE NO. 5                       | POUND            | 410                   |                        |
| 2575.505 | SODDING                                  | SQ. YD.          | 183                   |                        |
| 2575.511 | MULCH MATERIAL, TYPE 1                   | TON              | 17                    |                        |
| 2575.519 | DISC ANCHORING                           | ACRE             | 8.2                   |                        |
| 2575.531 | COMMERCIAL FERTILIZER, ANALYSIS 10-10-10 | TON              | 2                     |                        |
| 0575.602 | HAY OR STRAW BALES                       | EACH             | 15                    |                        |

| PLATE NO. | DESCRIPTION                                 |
|-----------|---|
| 0004A     | SPECIFICATION REFERENCE TO STANDARD PLATES  |
| 3000I     | REINFORCED CONCRETE PIPE                    |
| 3100F     | CONCRETE APRON FOR REINFORCED CONCRETE PIPE |
| 3133A     | RIPRAP AT RCP OUTLETS                       |
| 9000B     | APPROACHES AND ENTRANCES                    |
| 9102C     | SODDING AT PIPE CULVERT ENDS                |
| 9323D     | BARBED WIRE FENCE (WOOD POST)               |

| BASELINE STATION | RCP LIN.FT. | CLASS | GRADE % | UPSTREAM LIP INV. | DOWNSTREAM LIP INV. | APRONS |
|------------------|-------------|-------|---------|-------------------|---------------------|--------|
| 26+60            | 90'-66"     | II    | 0.10    | 889.00            | 887.89              | 2      |
| 26+70            | 90'-66"     | II    | 0.10    | 888.00            | 887.89              | 2      |
| 42+21-42+97      | 64'-18"     | II    | 0.10    | 895.81            | 895.73              | 2      |

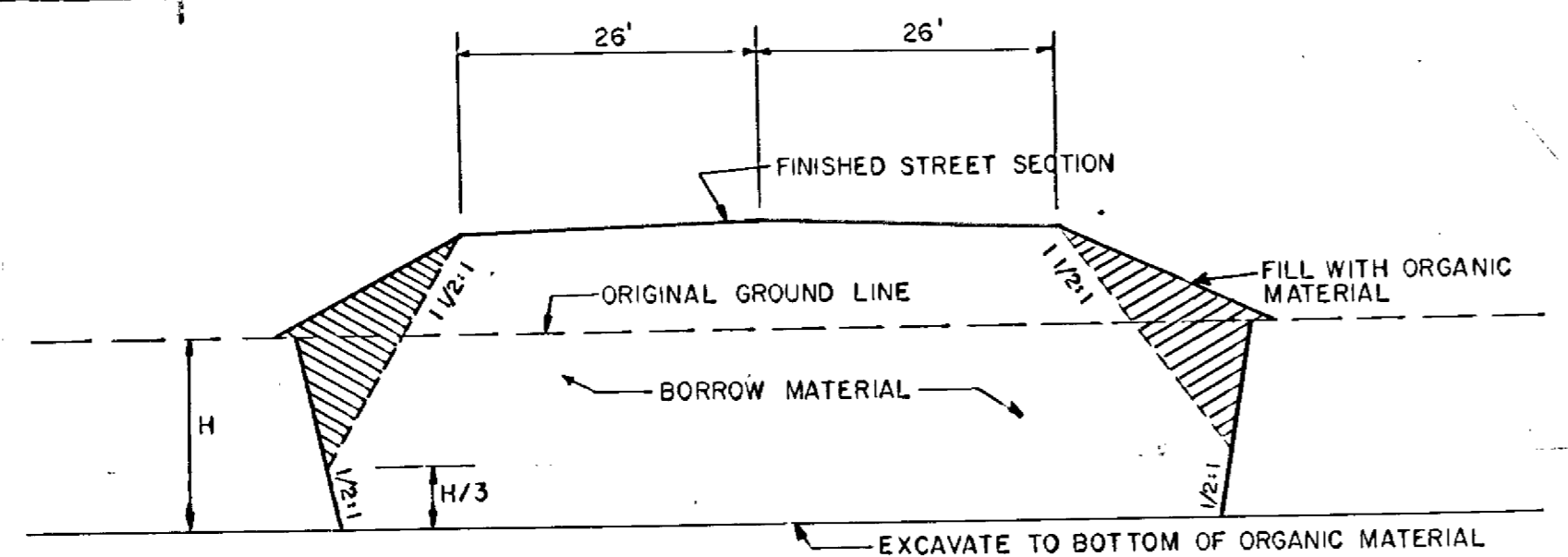
| SODDING DIMENSIONS (PLATE 9102C) |         |      |      |      |
|----------------------------------|---------|------|------|------|
| LOCATION                         | SQ. YD. | A    | B    | C    |
| UPSTREAM                         | 74      | 4.5' | 9'   | 4.5' |
| DOWNSTREAM                       | 109     | 18'  | 1.5' | 6'   |



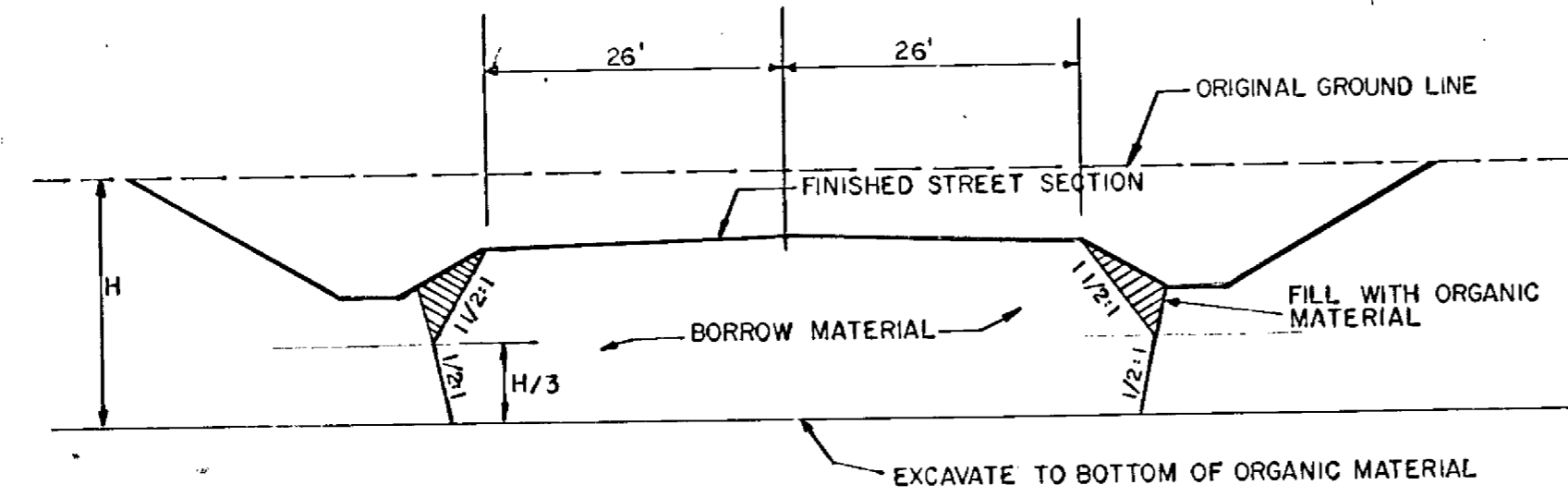
| EARTHWORK BALANCE |            |
|-------------------|------------|
| COMMON EXCAVATION | 8,033 CY.  |
| MUCK EXCAVATION   | 30,746 CY. |
| EMBANKMENT        | 22,202 CY. |
| MUCK EMBANKMENT   | 1,184 CY.  |
| COMMON BORROW     | 28,600 CY. |
| MUCK DISPOSAL     | 29,562 CY. |

STREET SECTION  
STA. 13+19 - STA. 60+30

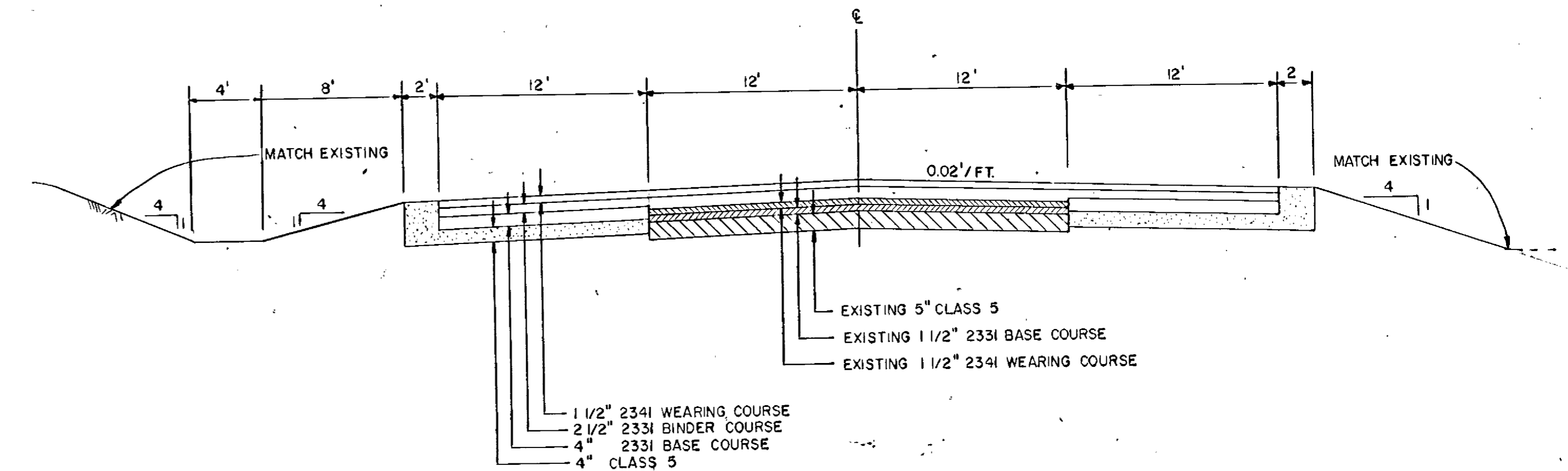
- 1. INCLUDES 90 TONS FOR ROAD APPROACHES
- 2. INCLUDES 92 TONS FOR ROAD APPROACHES
- 3. INCLUDES 148 TONS FOR ROAD APPROACHES
- 4. INCLUDES 55 TONS FOR ROAD APPROACHES



TYPICAL SWAMP SECTION  
WITH A STREET FILL SECTION



TYPICAL SWAMP SECTION  
WITH A STREET CUT SECTION



STREET SECTION  
STA. 0+00 - STA. 13+19

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statutes Sections 326.02 to 326.16.

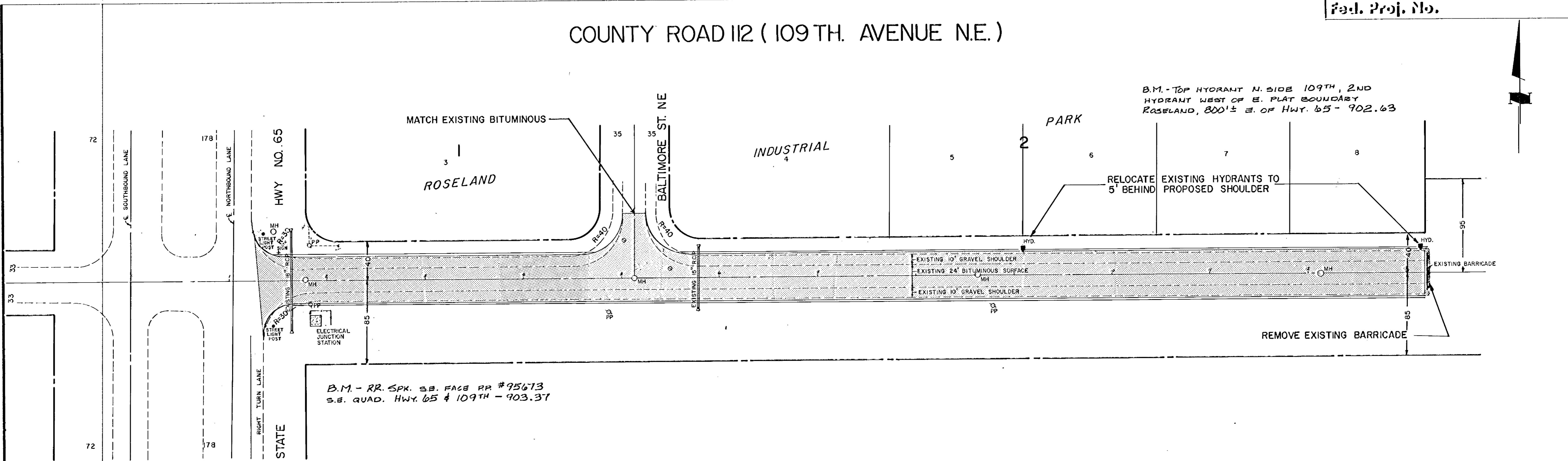
DATE: 8/24/84 Minn. Reg. No. 12706

CONSULTING ENGINEERS diversified inc (ED) po box 10580, minneapolis, mn 55469 • (612) 425-2181

|             |           |                      |
|-------------|-----------|----------------------|
| DESIGNED BY | REVISIONS | DATE                 |
| CHECKED BY  | SCALE     | APRIL 1984           |
| DRAWN BY    | HORIZ     | SHEET 2 OF 26 SHEETS |
| BK. NAME    | VERT.     | FILE NO. AC 430B.302 |

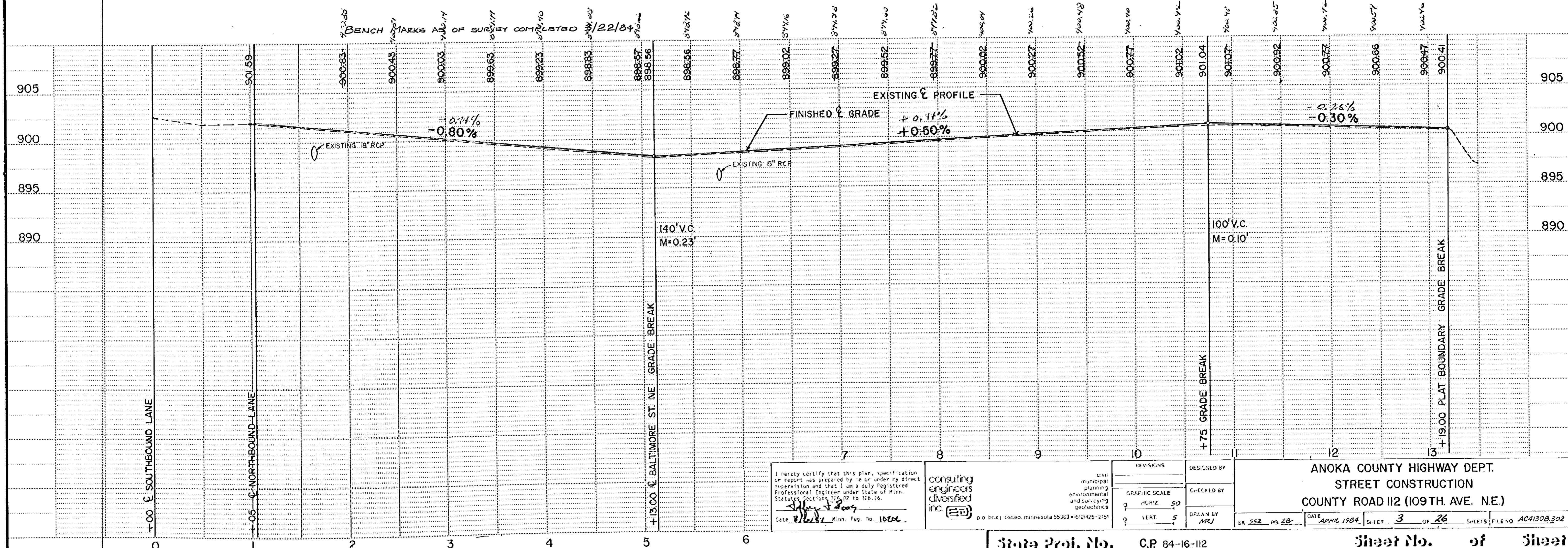
C.P. 84-16-112  
ANOKA COUNTY HIGHWAY DEPT.  
SECTIONS & ESTIMATED QUANTITIES  
COUNTY ROAD 112 (109TH AVE. N.E.)

COUNTY ROAD 112 (109TH. AVENUE N.E.)



B.M. - RR. SPK. SB. FACE RR #95613  
S.E. QUAD. HWY. 65 & 109TH - 903.31

B.M. - TOP HYDRANT N. SIDE 109TH, 2ND  
HYDRANT WEST OF E. PLAT BOUNDARY  
ROSELAND, 800'± E. OF HWY. 65 - 902.63



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota, Section 325.02 to 325.16.  
Date 3/16/84 Minn. Reg. No. 10264

consulting engineers diversified inc. (CED) po box 16560, minnesota 55368 • 612/425-2151

| REVISIONS |          |
|-----------|----------|
| 0         | HORIZ 50 |
| 1         | VERT 5   |

DESIGNED BY: ANOKA COUNTY HIGHWAY DEPT.  
STREET CONSTRUCTION  
COUNTY ROAD 112 (109TH. AVE. NE.)

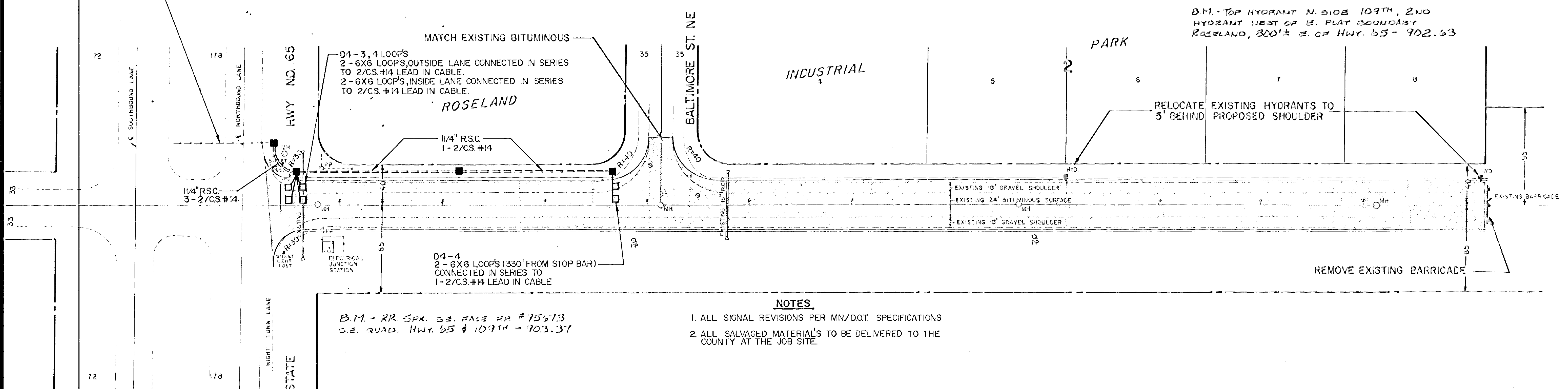
CHECKED BY: \_\_\_\_\_  
DRAWN BY: MRJ

DATE: APRIL 1984 SHEET: 3 OF 26 SHEETS FILE NO: AC41308.302

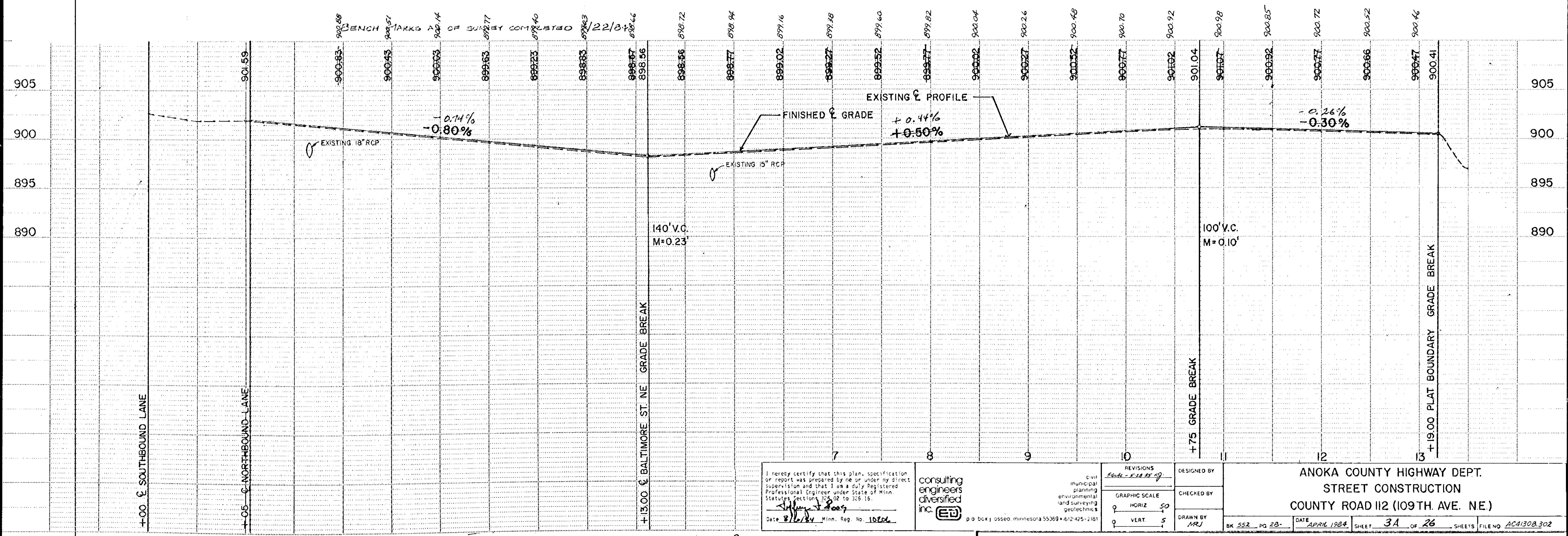
# COUNTY ROAD 112 (109 TH. AVENUE N.E.)

## SIGNAL REVISION DETAILS

EXISTING 3" R.S.C. (SEE ATTACHED EXISTING SIGNAL LAYOUT)  
 F&I. 2 - 2/CS.#14 CABLE - APPROX. 350' TO EXISTING CONTROLLER CABINET.  
 REMOVE 1-2/CS.#14 CABLE (OLD D4-4 LEAD IN CABLE)



- NOTES**
1. ALL SIGNAL REVISIONS PER MN/DOT. SPECIFICATIONS
  2. ALL SALVAGED MATERIALS TO BE DELIVERED TO THE COUNTY AT THE JOB SITE.
- B.M. - RR SPK. 33. FACE # 75613  
 33. QUAD. HWY. 65 & 109TH - 703.37



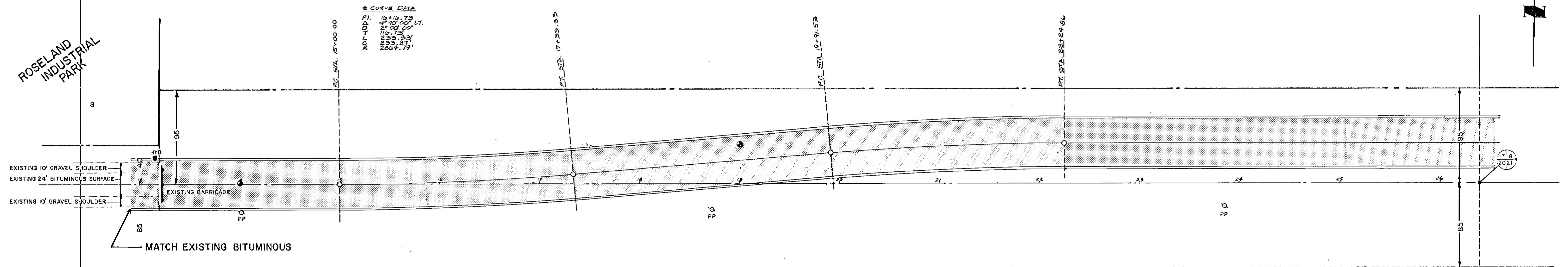
|  |  |                     |   |
|--|--|---------------------|---|
| I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statutes sections 325.02 to 325.16.<br>Date 8/16/84 Minn. Reg. No. 10204 | consulting engineers diversified inc. (E.D.I.)<br>6010 1/2 Ave. S.E. Minneapolis, MN 55425 | DESIGNED BY<br>S.M. | ANOKA COUNTY HIGHWAY DEPT.<br>STREET CONSTRUCTION<br>COUNTY ROAD 112 (109TH. AVE. N.E.) |
|  |  | CHECKED BY<br>MRJ   |   |
|  |  | DRAWN BY<br>MRJ     |   |
| REVISIONS<br>1. 5/18/84  |  | DATE<br>APRIL 1984  | SHEET<br>3A OF 26 SHEETS  |
| GRAPHIC SCALE<br>HORIZ 50<br>VERT 5  |  | BK 552 PG 28        | FILE NO ACA1308.302   |

# COUNTY ROAD 112 (109 TH. AVENUE N.E.)

Fed. Proj. No.

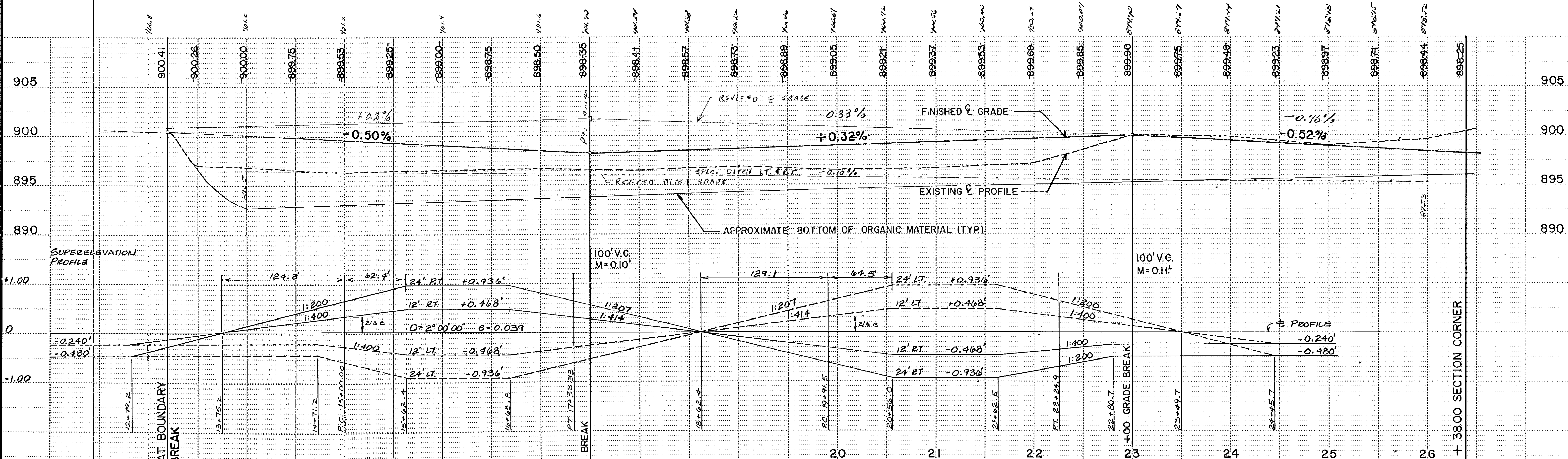


ROSELAND INDUSTRIAL PARK



B.M.  
R.R. SPK. P.P. #17 SIDE  
PROPOSED 109TH. AV. POLY  
E. OF END EXISTING 109TH  
= 900.29 (AS OF 3/22/84)

# CURVE DATA  
P.I. 21 100.00  
MINUS 10' 00" RT.  
MINUS 10' 00" RT.  
MINUS 10' 00" RT.  
MINUS 10' 00" RT.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota Statutes Sections 376.02 to 376.16  
Date 8/10/84 Minn. Reg. No. 10106

consulting engineers diversified inc. (CEI) P.O. BOX 1 USEDO MINNESOTA 55569-0124 2181

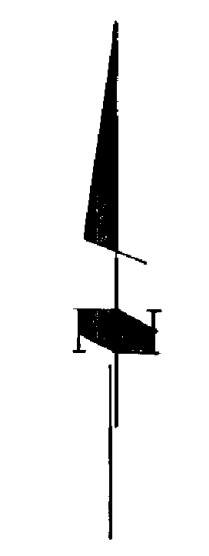
| REVISIONS |               |
|-----------|---------------|
| 1         | GRAPHIC SCALE |
| 2         | HORIZ 50      |
| 3         | VERT 5        |

DESIGNED BY  
CHECKED BY  
DRAWN BY  
NRJ

ANOKA COUNTY HIGHWAY DEPT.  
STREET CONSTRUCTION  
COUNTY ROAD 112 (109 TH. AVE. N.E.)  
DATE APR 1984 SHEET 4 OF 26 SHEETS FILE NO. AC41308302

# COUNTY ROAD 112 (109TH. AVENUE N.E.)

Fed. Proj. No.



59 YDS. CLASS A RIPRAP  
30 YDS. TYPE I FILTER  
BLANKET  
SEE STD. PLATE 3133A

INSTALL  
TWIN 66" 90' RCP WITH 2 FES EACH

LIP INVERT 887.89

LIP INVERT 888.00

32 YDS. CLASS A RIPRAP  
16 YDS. TYPE I FILTER BLANKET

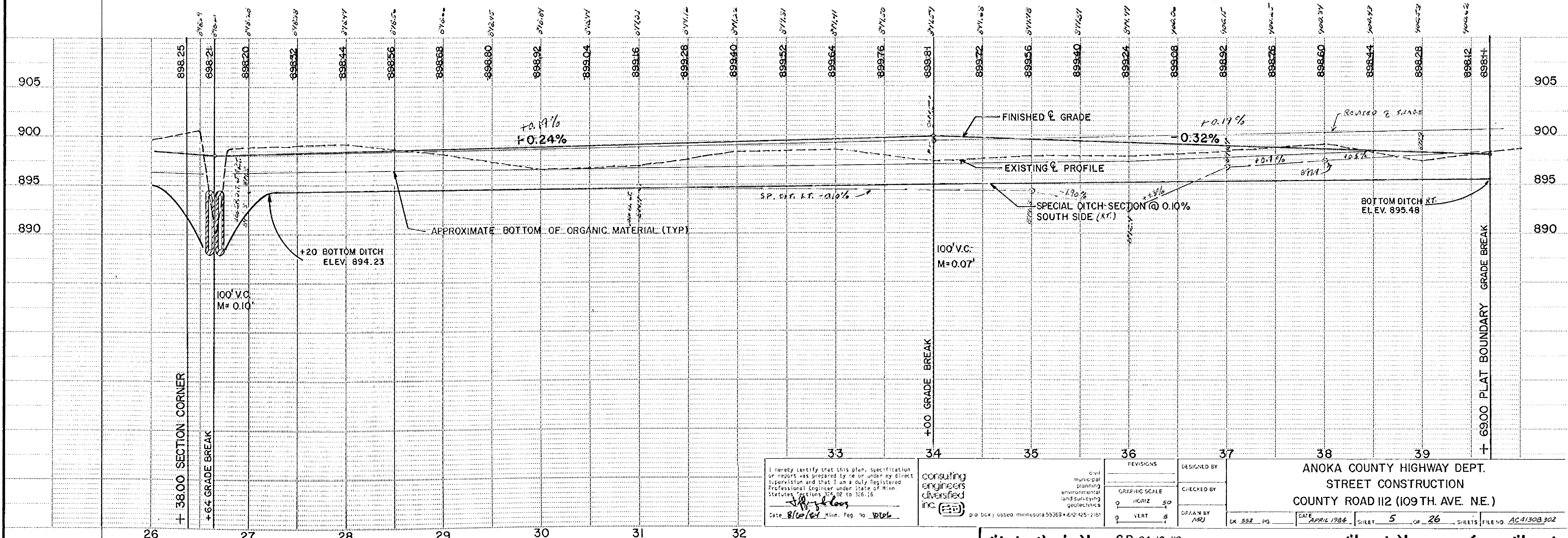
17  
18  
20  
21

COUNTY DITCH # 41

B.M. - R.R. SPK. PP #13  
OF N.S. DITCH 2700' ± E  
OF HWY 65. 100.33

B.M. - R.R. SPK. PP #13  
- 877.63

7 4  
RADISSON  
INDUSTRIAL  
PARK



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes, Chapters 326.02 to 326.16.  
*J.P. [Signature]*  
Date 8/16/84 Minn. Reg. No. 0066

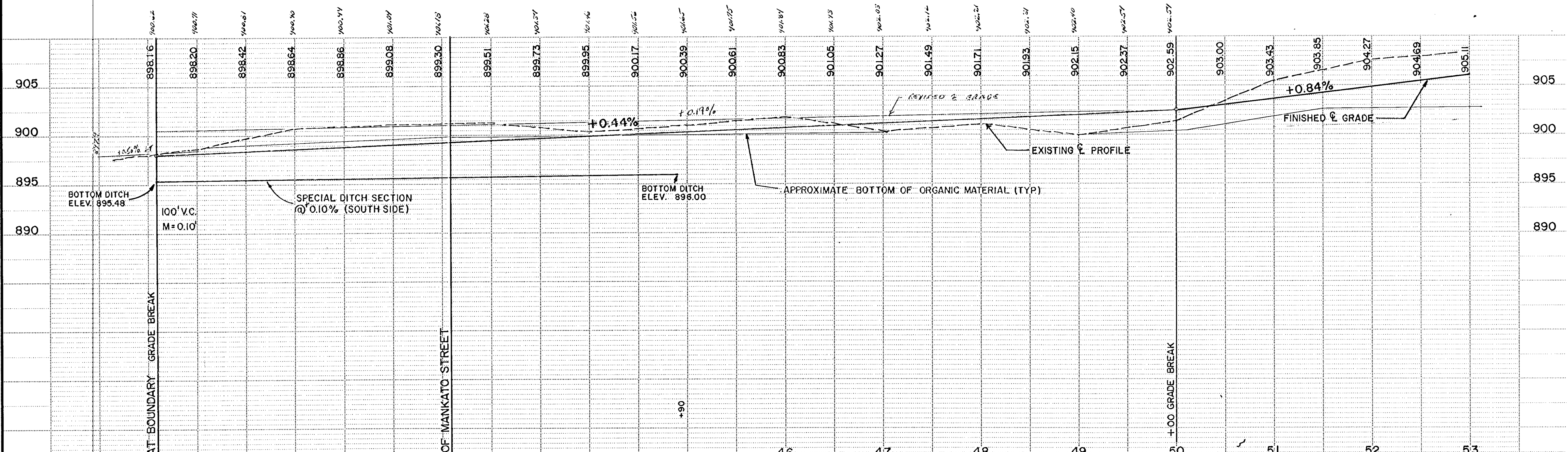
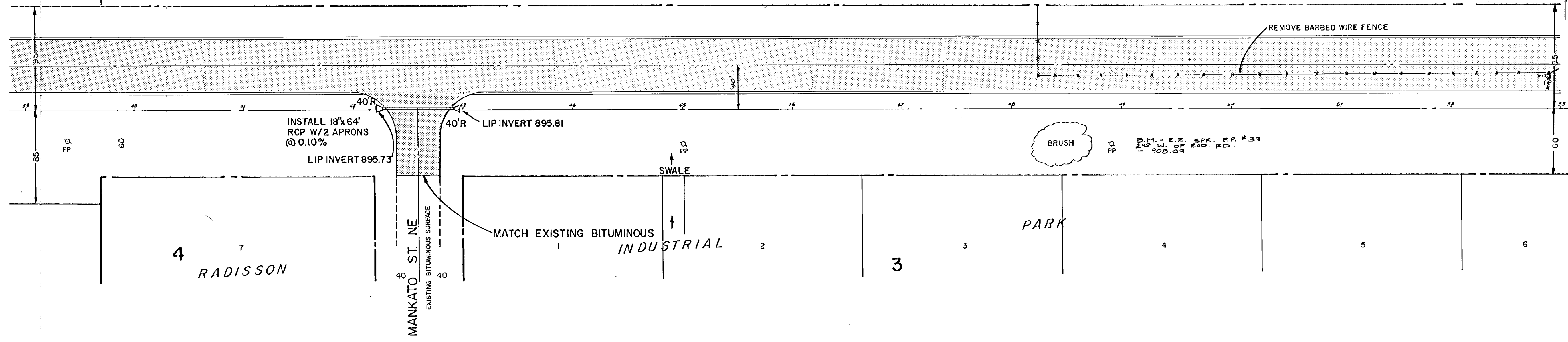
consulting  
engineers  
diversified  
inc. (E)D  
p.o. box 10566, minneapolis 55432-0566 • 612-425-7181

| REVISIONS |          | DESIGNED BY |
|-----------|----------|-------------|
| 0         | HORIZ 50 |             |
| 0         | VERT 5   |             |

ANOKA COUNTY HIGHWAY DEPT.  
STREET CONSTRUCTION  
COUNTY ROAD 112 (109TH. AVE. N.E.)  
DATE APRIL 1984 SHEET 5 OF 26 SHEETS FILE NO. AC1308\_302

# COUNTY ROAD 112 (109 TH. AVENUE N.E.)

Fed. Proj. No.



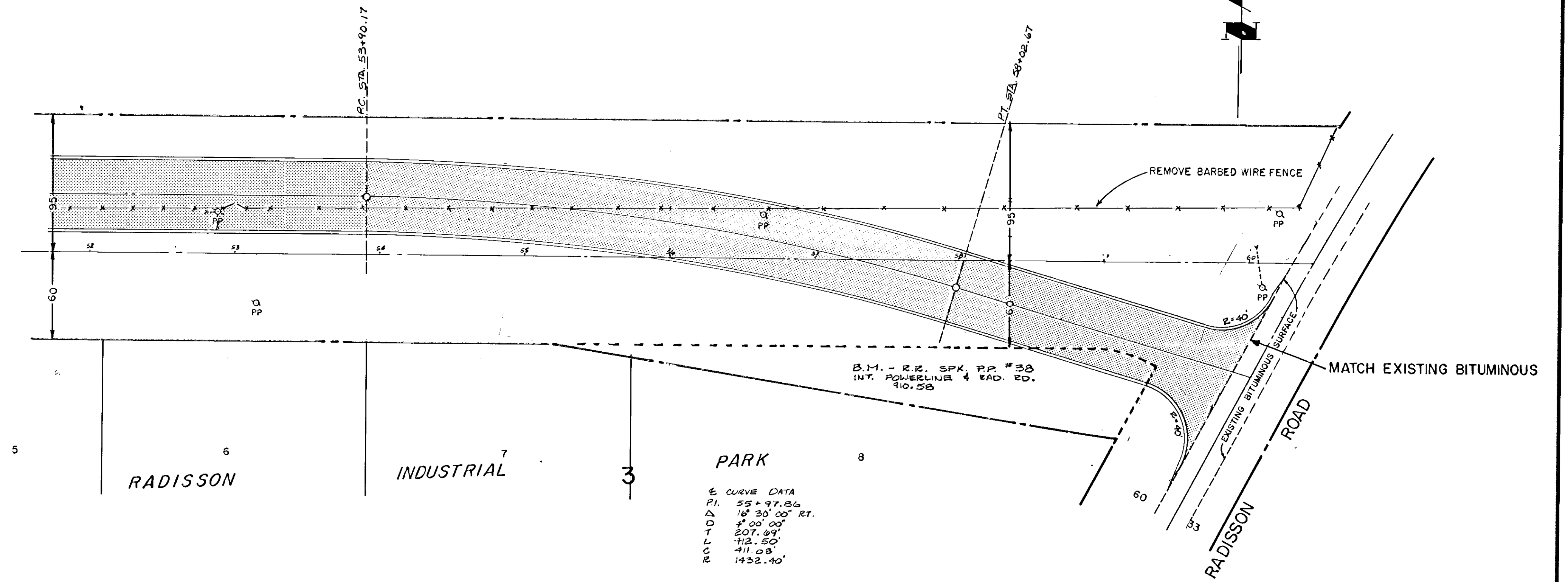
|  |   |             |  |
|--|---|-------------|--|
| I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statutes Sections 266.02 to 266.16.<br>Date: 8/11/84 Minn. Reg. No. 1022 | consulting engineers diversified inc. (EDI) | DESIGNED BY | ANOKA COUNTY HIGHWAY DEPT.<br>STREET CONSTRUCTION<br>COUNTY ROAD 112 (109 TH. AVE. N.E.) |
|  |   | CHECKED BY  |  |
|  |   | DRAWN BY    |  |
|  |   | DATE        |  |

State Proj. No. CR 84-16-112

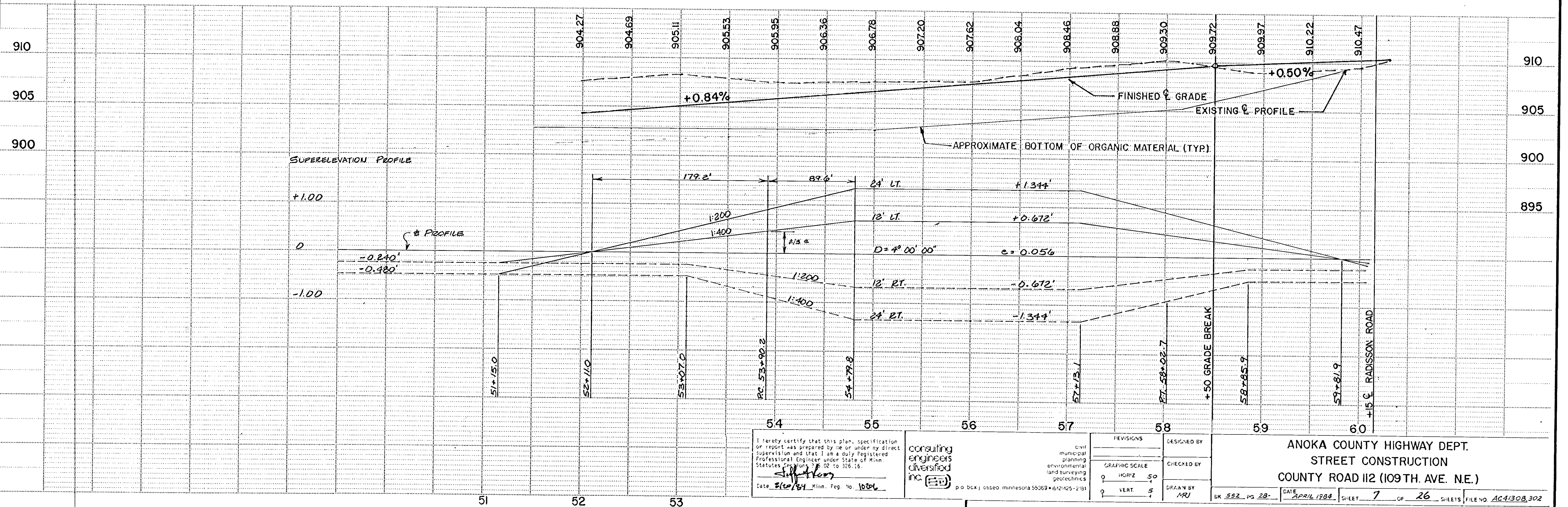
Sheet No. 6 of 26 Sheets

# COUNTY ROAD 112 ( 109 TH. AVENUE N.E. )

Fed. Proj. No.

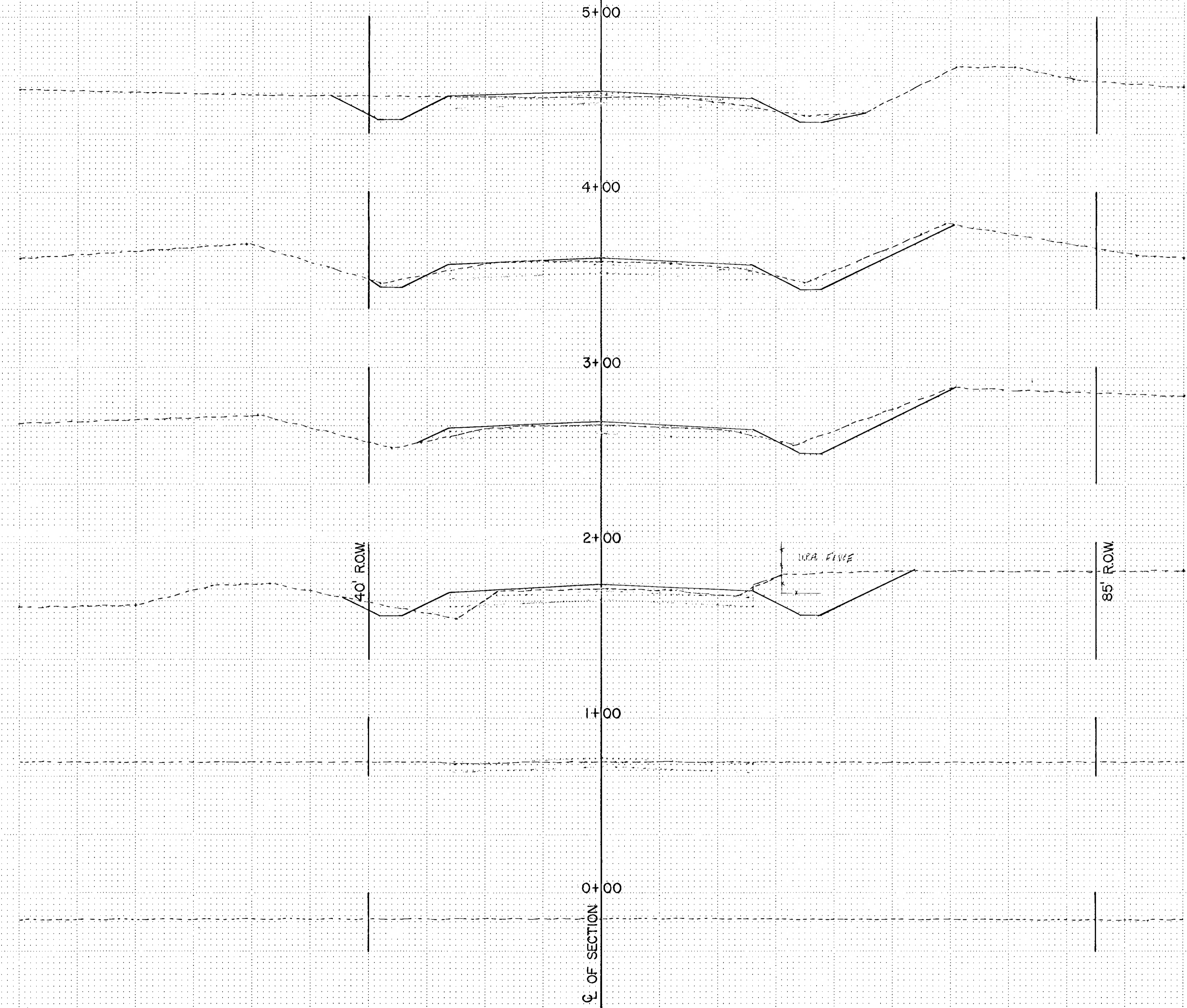


& CURVE DATA  
 P.I. 55+97.86  
 Δ 16°30'00" RT.  
 D 4°00'00"  
 T 207.69'  
 L 112.50'  
 R 1432.40'



|  |   |   |  |   |                    |                                |                          |
|--|---|---|--|---|--------------------|--------------------------------|--------------------------|
| I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minn. Statutes, Chapters 326.02 to 326.16.<br>Date: 5/10/84 Minn. Reg. No. 16886<br> | consulting engineers diversified inc. (CED)<br>p.o. box 1, osseo minnesota 55369 • 612/425-2181 | DESIGNED BY<br>MRU  | CHECKED BY<br>MRU                                    | DRAWN BY<br>MRU   | DATE<br>APRIL 1984 | SHEET<br>7 OF 26 SHEETS        | FILE NO<br>AC1308302     |
|  |   | CIVIL MUNICIPAL PLANNING ENVIRONMENTAL LAND SURVEYING GEOTECHNICS | REVISIONS<br>GRAPHIC SCALE<br>0 HORIZ 50<br>0 VERT 5 | ANOKA COUNTY HIGHWAY DEPT.<br>STREET CONSTRUCTION<br>COUNTY ROAD 112 (109TH. AVE. N.E.) | BK 552 PG 28       | STATE PROJ. NO. C.R. 84-16-112 | SHEET NO. 7 OF 26 SHEETS |





| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

|     |   |
|-----|---|
| 113 | 0 |
|-----|---|

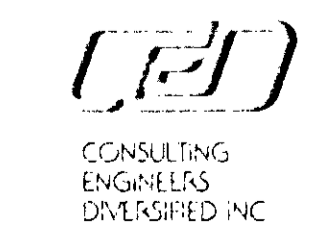
|     |    |
|-----|----|
| 119 | 11 |
|-----|----|

|     |    |
|-----|----|
| 183 | 46 |
|-----|----|

|     |    |
|-----|----|
| 122 | 35 |
|-----|----|

|   |   |
|---|---|
| 0 | 0 |
|---|---|

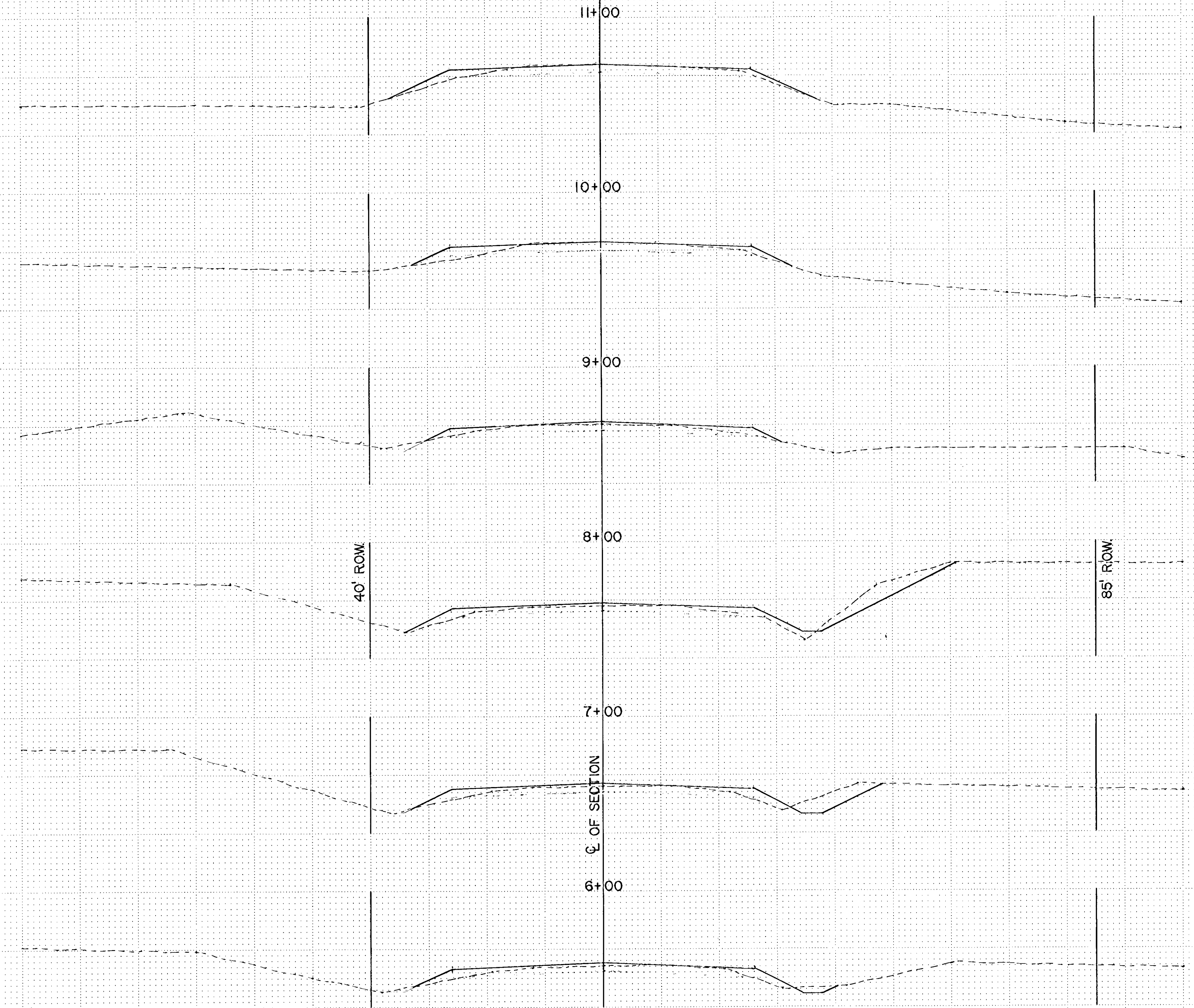
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statute 320.02 to 320.16  
*[Signature]*  
 Date 8/10/84 Minn. Reg. No. 10106



Engineering Consultant  
 5 Grandview  
 Suite 200  
 7200 Hennepin Lake Road  
 Minneapolis, MN 55427  
 612-425-2181

|               |    |
|---------------|----|
| DESIGNED BY   | SL |
| CHECKED BY    | SL |
| GRAPHIC SCALE |    |
| 0 HORIZ 10'   |    |
| 0 VERT 5'     |    |

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109 TH. AVE. N.E.)  
 DATE APRIL 1984 SHEET 8 OF 26 SHEETS FILE NO. AC 41308\_302

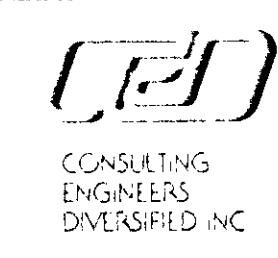


| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

|    |    |
|----|----|
| 0  | 56 |
| 0  | 56 |
| 44 | 56 |
| 72 | 74 |
| 35 | 67 |
| 63 | 30 |

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minn. Statutes, Chapters 316.00 to 316.10.

*Jeffrey Ross*  
 Date: 5/10/84 Minn. Reg. No. 10206



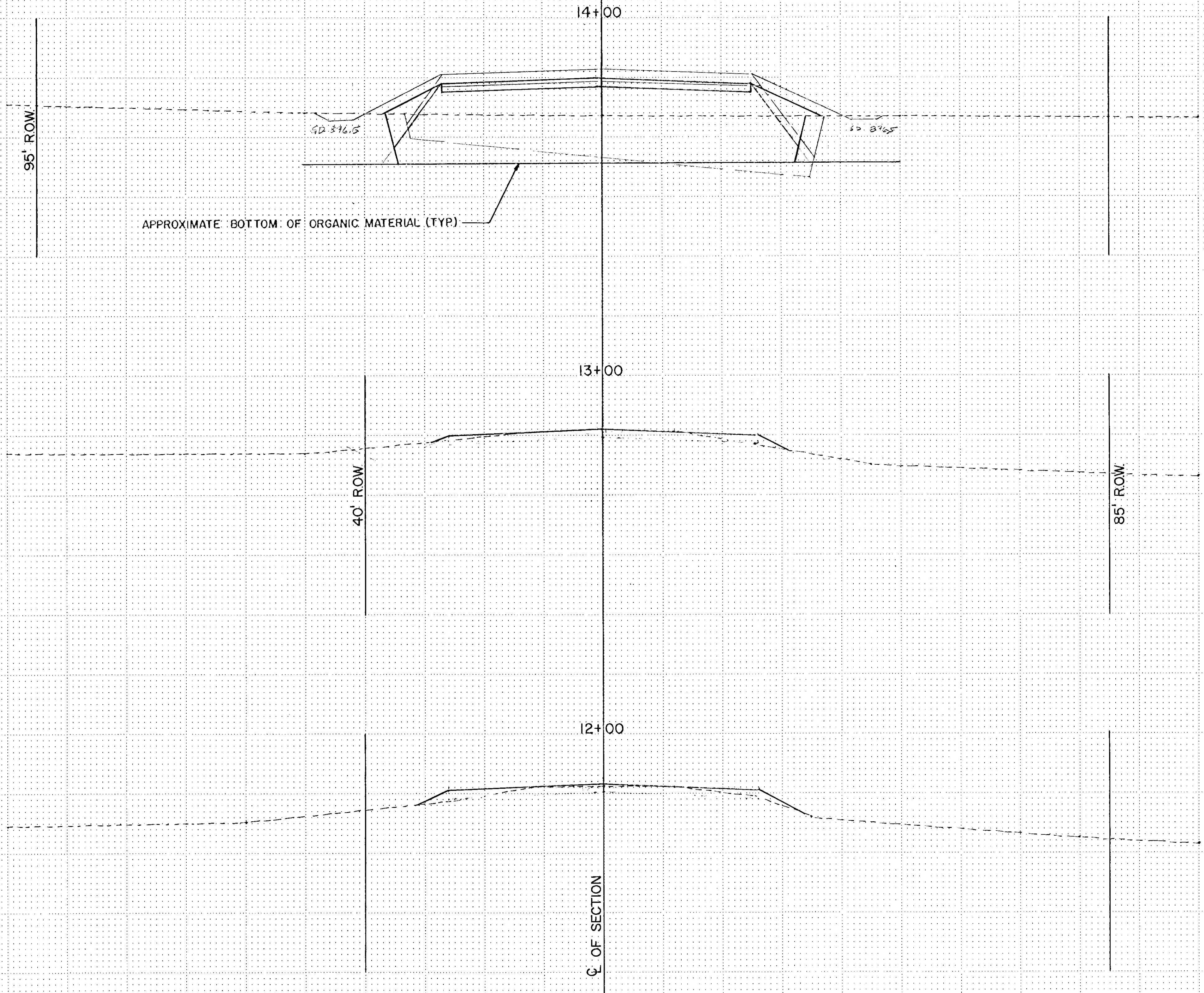
Engineering Consultant  
 5125 Hennepin Avenue  
 Suite 200  
 Minneapolis, MN 55412  
 Phone: 612-452-1811

| REVISIONS |         | DESIGNED BY |
|-----------|---------|-------------|
| 1         | HGRZ 10 |             |
| 2         | VERT 5  |             |

CHECKED BY  
 DRAWN BY  
 LK LOOSE, PG LEAF

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH. AVE. NE.)

DATE: APRIL 1984  
 SHEET: 9 OF 26 SHEETS  
 FILE NO: AC4308.302



| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

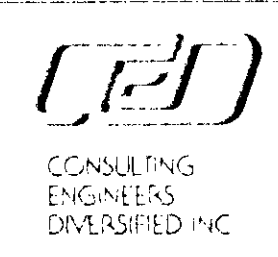
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|-------|------|
| 0     | 743  |
| M 520 | M 61 |

|   |    |
|---|----|
| 0 | 56 |
|---|----|

|   |    |
|---|----|
| 0 | 48 |
|---|----|

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota Statutes, Chapters 320 to 325, is

*[Signature]*  
Date: 3/10/84 Minn. Reg. No. 10204



Engineering Consultant  
2208 North Lake Ave. N  
St. Paul, MN 55109  
612-425-2181

| REVISIONS |          | DESIGNED BY |
|-----------|----------|-------------|
| 0         | HORIZ 10 |             |
| 0         | VERT 5   |             |

CHECKED BY  
DRAWN BY  
SC

ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109 TH. AVE. N.E.)

DATE: APRIL 1984  
SHEET: 10 OF 26 SHEETS  
FILE NO. AC 41308-302

900

| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

895

890

885

0 126  
M 798 M 65

880

17+00

SD 834.2

SD 834.2

16+00

SD 876.3

SD 876.3

900

895

890

885

0 1187  
M 876 M 96

880

15+00

SD 876.7

SD 876.7

900

895

890

885

0 1378  
M 963 M 117

880

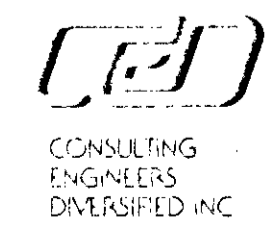
95' ROW

85' ROW

Q OF SECTION

APPROXIMATE BOTTOM OF ORGANIC MATERIAL (TYP)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under State of Minn. Statutes Sections 320.01-320.05  
 Date: 3/16/84 Min. Reg. No. 1026



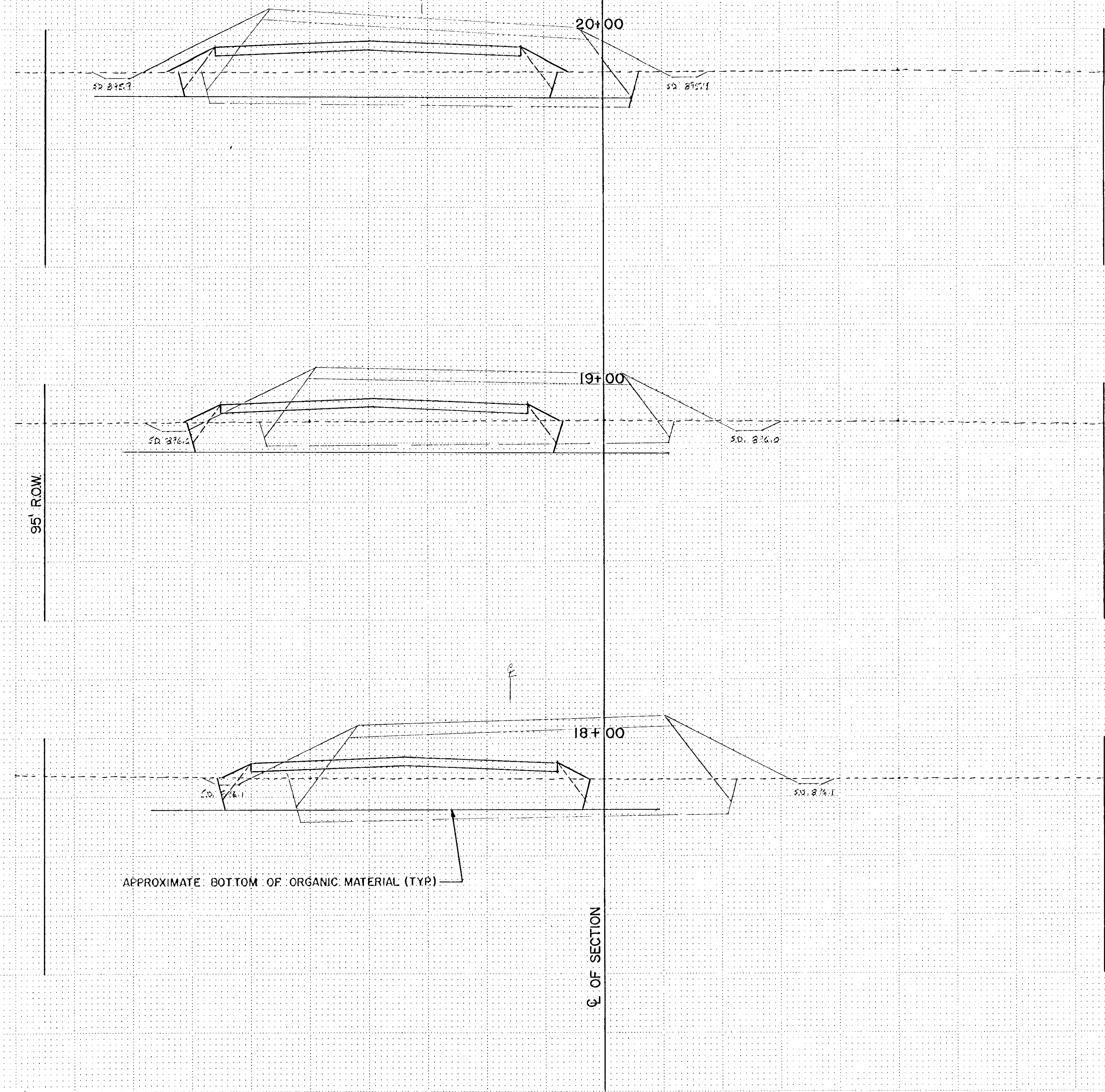
Consulting Engineers Diversified Inc.  
 2200  
 7231 Hennepin Ave. N.W.  
 Minneapolis, MN 55412  
 612-428-7181

| REVISIONS |          |
|-----------|----------|
| 0         | HORIZ 10 |
| 0         | VERT 5   |

DESIGNED BY  
 CHECKED BY  
 DRAWN BY  
 SC

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH AVE. N.E.)

DATE: APRIL 1984 SHEET 11 OF 26 SHEETS FILE NO. AC4308.302



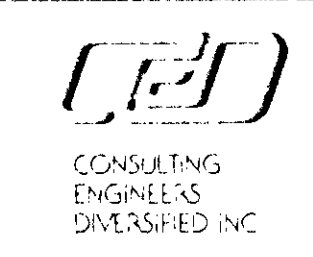
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|------------|------------|
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| M 552      | M 46       |

|       |      |
|-------|------|
| 0     | 780  |
| M 607 | M 43 |

|       |      |
|-------|------|
| 0     | 785  |
| M 672 | M 46 |

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Sections 175.20 to 175.15

*Jeffrey R. Ross*  
 Date 3/10/84 Minn. Reg. No. 10266

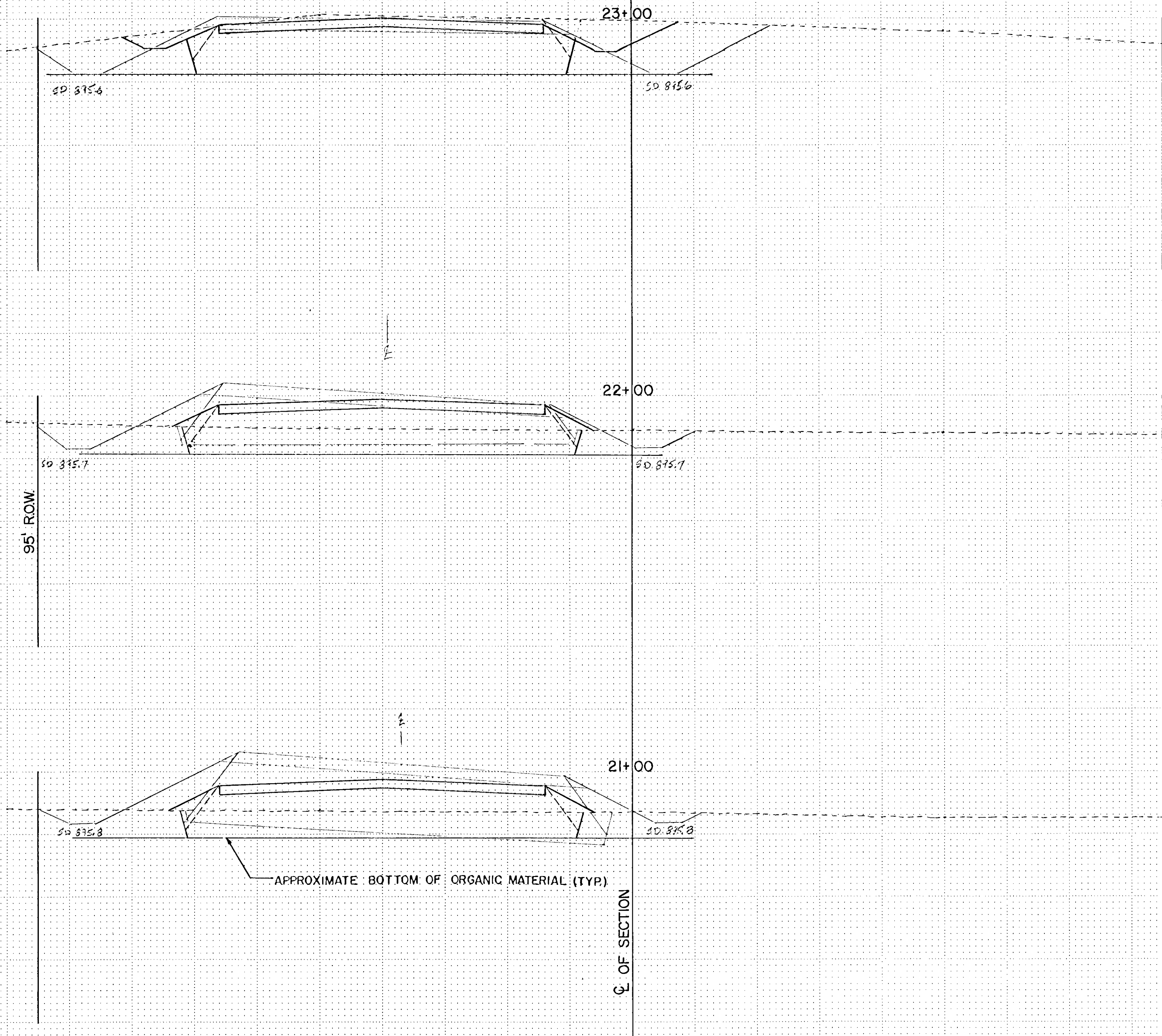


Engineering Consultant  
 2345 Hennepin Ave. S.W.  
 Minneapolis, MN 55425  
 612-425-2181

| REVISIONS |          | DESIGNED BY |
|-----------|----------|-------------|
| 0         | HORIZ 10 | SL          |
| 0         | VERT 5   | SL          |

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH AVE. NE.)

DATE APRIL 1984 SHEET 12 OF 26 SHEETS FILE NO AC 8420B-302



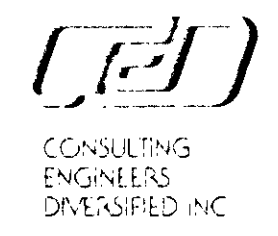
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|------------|------------|
| CU. YD.    | CU. YD.    |

0 772  
M 814 M 33

0 778  
M 493 M 46

0 800  
M 500 M 50

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minnesota Statute Chapter 320, Section 22 to 22.15.  
Date 3/10/84 Minn. Reg. No. 18706



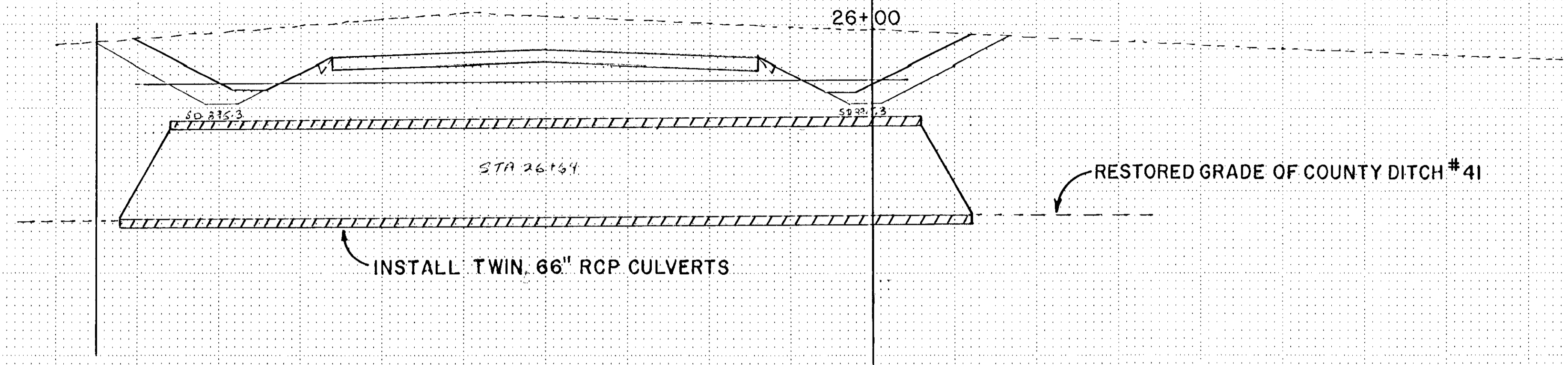
Engineering Consultant  
2500 Hennepin Avenue  
Minneapolis, MN 55425  
612-455-2151

| REVISIONS |  |
|-----------|--|
|           |  |
|           |  |

DESIGNED BY  
CHECKED BY  
DRAWN BY SC

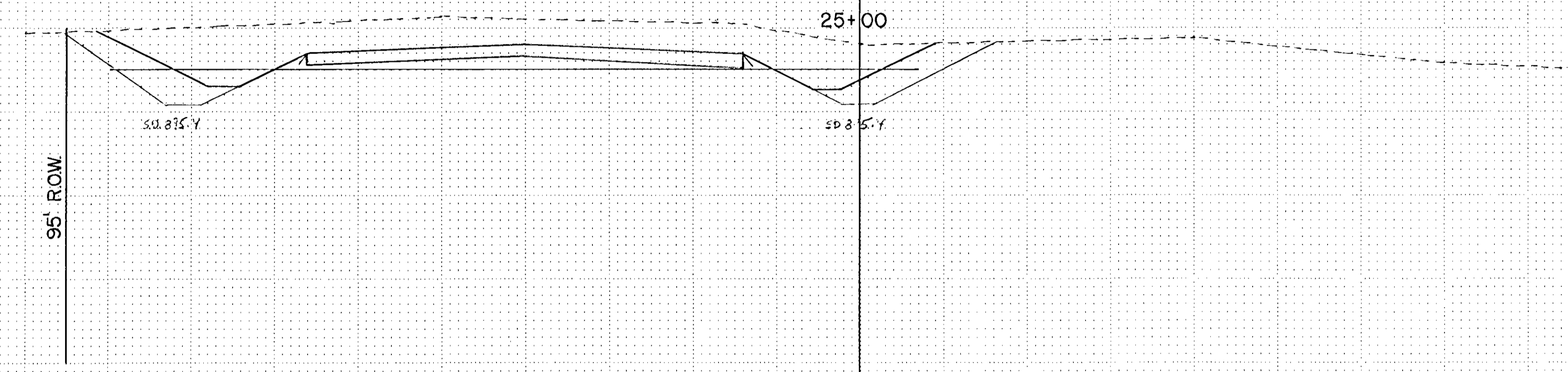
ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109TH. AVE. N.E.)

DATE APRIL 1984 SHEET 13 OF 26 SHEETS FILE NO AC 91308.302



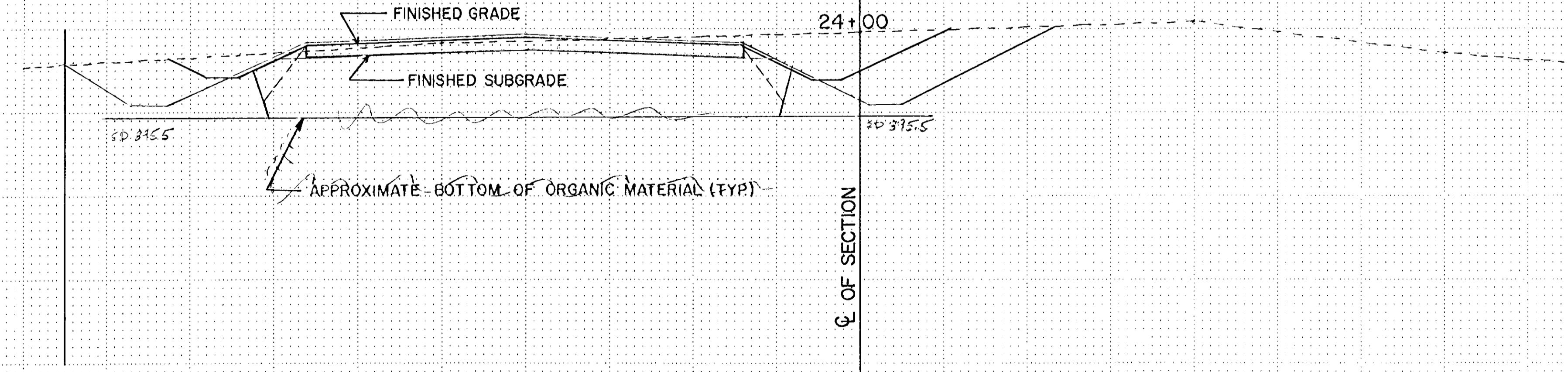
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|------------|------------|
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| 46         | 144        |
| M 1035     | M 19       |

900  
895  
890  
885  
880



|        |      |
|--------|------|
| 30     | 459  |
| M 1061 | M 33 |

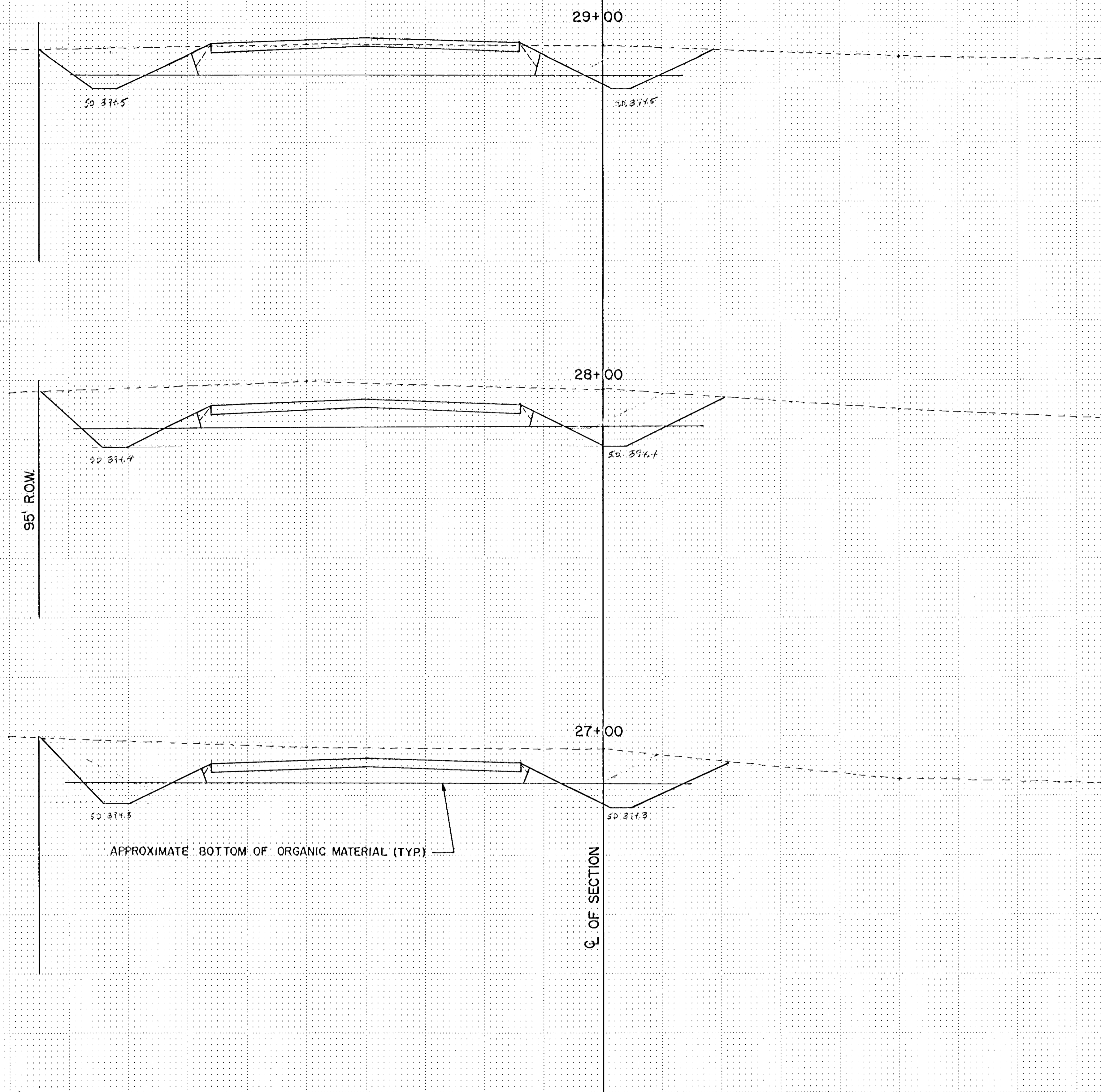
900  
895  
890  
885  
880



|        |      |
|--------|------|
| 0      | 802  |
| M 1185 | M 35 |

900  
895  
890  
885  
880

|   |   |                                   |                    |   |
|---|---|-----------------------------------|--------------------|---|
| <p>I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota Statutes, Chapters 320 to 325.16.</p> <p><i>Jeff Johnson</i><br/>Date 3/16/84 Minn. Reg. No. 10256</p> | <p>CONSULTING ENGINEERS DIVERSIFIED INC.</p> <p>June 2002<br/>1200 Hennepin Avenue<br/>Minneapolis, MN 55402<br/>612-435-2151</p> | REVISIONS                         | DESIGNED BY        | <p>ANOKA COUNTY HIGHWAY DEPT.<br/>CROSS SECTIONS<br/>COUNTY ROAD 112 (109TH AVE. NE.)</p> <p>DATE APRIL 1984 SHEET 14 OF 26 SHEETS FILE NO. AC41308.202</p> |
|   |   | GRAPHIC SCALE                     | CHECKED BY         |   |
|   |   | <p>0 HORIZ 10</p> <p>0 VERT 5</p> | <p>DRAWN BY SL</p> |   |



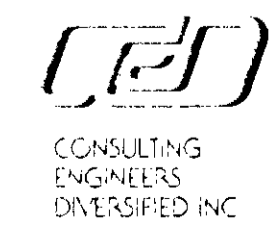
| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

117 396  
M 1146 M 15

154 280  
M 1341 M 7

100 209  
M 1250 M 13

I hereby certify that in a plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Sections 320.01 to 320.10  
*Jeffrey Jones*  
 Date 3/12/84 Minn. Reg. No. 10206



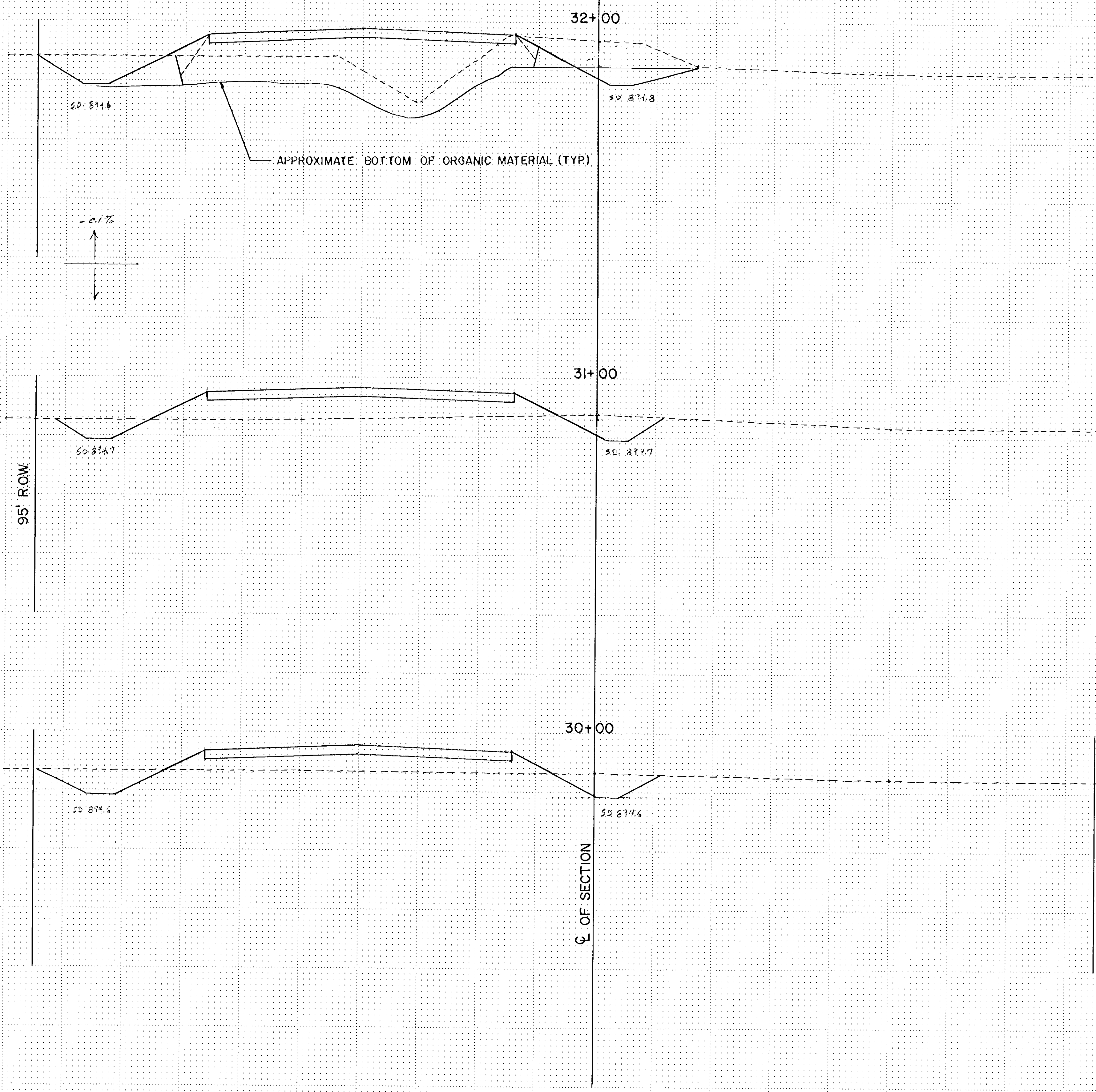
Engineering Consultant  
 1200 University Ave. N.W.  
 Minneapolis, MN 55455  
 612-425-2101

| REVISIONS |               |
|-----------|---------------|
| 1         | GRAPHIC SCALE |
| 2         | HORIZ 1/4"    |
| 3         | VERT 5'       |

DESIGNED BY  
 CHECKED BY  
 DRAWN BY SC

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH. AVE. N.E.)  
 DATE APRIL 1984 SHEET 15 OF 26 SHEETS FILE NO. AC 8408.302





| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

117 657  
M 448 M 30

170 333  
M 0 M 28

143 365  
M 470 M 26

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State Statutes Section 22 to 216.16  
*J.H. Wilson*  
 Date: 8/10/81 Minn. Reg. No. 10106

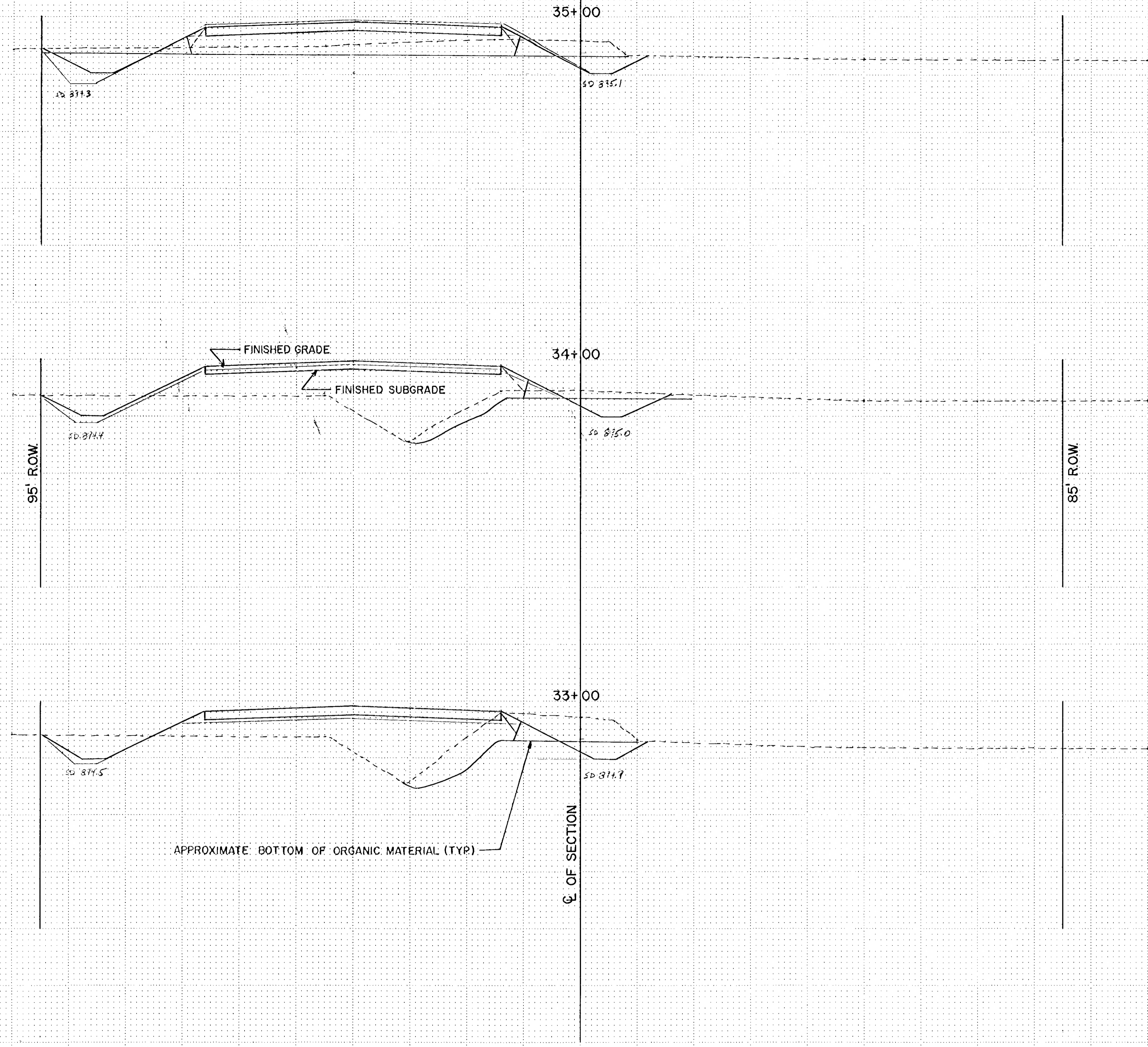
**CEI**  
 CONSULTING ENGINEERS DIVERSIFIED, INC.  
 Engineering Consultants  
 3120 Hennepin Avenue  
 Minneapolis, MN 55412  
 612-252-1218

| REVISIONS |       | DESIGNED BY |
|-----------|-------|-------------|
| 0         | HORIZ | 10          |
| 0         | VERT  | 5           |


CHECKED BY  
 DRAWN BY  
 SK. ROOP - MG. LEAR

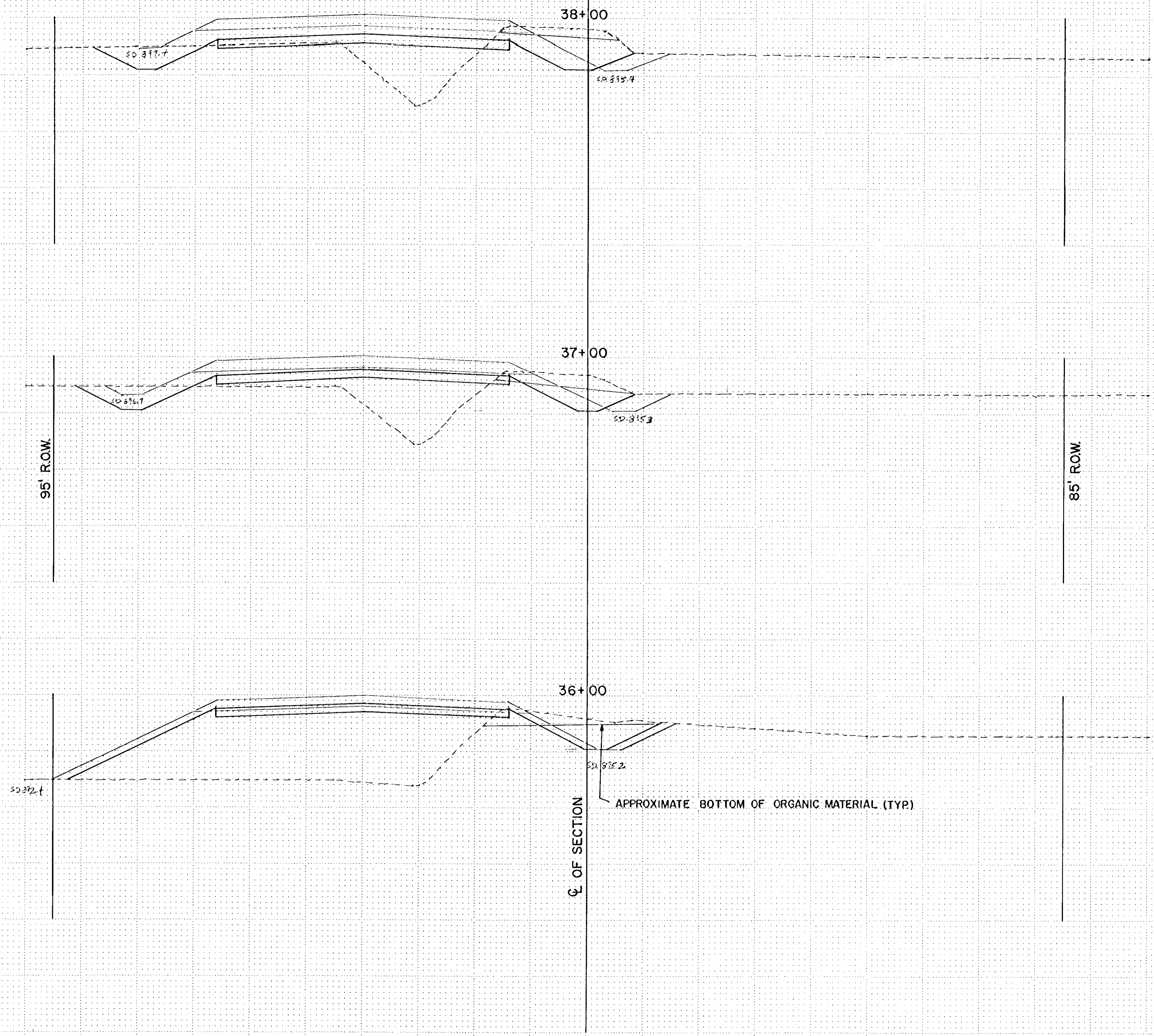
ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH. AVE. NE.)

DATE: \_\_\_\_\_ SHEET: 16 OF 26 SHEETS FILE NO. AC 41308-202



| Elevation | Fed. Proj. No.        |                       |
|-----------|-----------------------|-----------------------|
|           | EXCAVATION<br>CU. YD. | EMBANKMENT<br>CU. YD. |
| 900       |                       |                       |
| 895       |                       |                       |
| 890       |                       |                       |
| 885       |                       |                       |
| 880       | 126<br>M 228          | 576<br>M 30           |
| 900       |                       |                       |
| 895       |                       |                       |
| 890       |                       |                       |
| 885       |                       |                       |
| 880       | 141<br>M 196          | 730<br>M 11           |
| 900       |                       |                       |
| 895       |                       |                       |
| 890       |                       |                       |
| 885       |                       |                       |
| 880       | 119<br>M 591          | 806<br>M 22           |

|  |  |   |   |
|--|--|---|---|
| I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Sections 316.02 to 316.10.<br><i>John A. Ross</i><br>Date: 8/22/84 Minn. Reg. No. 10126 | <br>CONSULTING ENGINEERS DIVERSIFIED INC.<br>Suite 208<br>7200 Hennepin Avenue<br>Maple Grove, MN 55309<br>612-425-2781 | REVISIONS<br>DESIGNED BY                | ANOKA COUNTY HIGHWAY DEPT.<br>CROSS SECTIONS<br>COUNTY ROAD 112 (109TH. AVE. NE.) |
|  |  | GRAPHIC SCALE<br>0 HORIZ 10<br>0 VERT 5 | CHECKED BY<br>DRAWN BY<br>SK. LOOSE, PG. LEAF                                     |



| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

|      |     |
|------|-----|
| 228  | 330 |
| M 67 | M 7 |

|      |     |
|------|-----|
| 148  | 839 |
| M 83 | M 7 |

|       |      |
|-------|------|
| 117   | 839  |
| M 220 | M 28 |

900  
895  
890  
885  
880  
900  
895  
890  
885  
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900  
895  
890  
885  
880

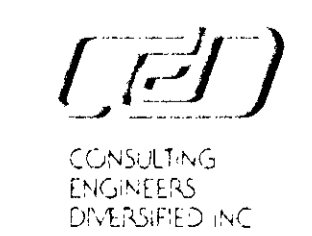
95' R.O.W.

85' R.O.W.

Q. OF SECTION

APPROXIMATE BOTTOM OF ORGANIC MATERIAL (TYP.)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Sections 320.01 to 320.26.  
 Date 8/10/87 Min. Reg. No. 10204



Engineering Consultant  
 7200 Hennepin Avenue  
 Minneapolis, MN 55425  
 612-425-2100

| REVISIONS |     | DESIGNED BY |
|-----------|-----|-------------|
| 1         | ASR |             |
| 2         | ASR |             |
| 3         | ASR |             |
| 4         | ASR |             |
| 5         | ASR |             |
| 6         | ASR |             |
| 7         | ASR |             |
| 8         | ASR |             |
| 9         | ASR |             |
| 10        | ASR |             |
| 11        | ASR |             |
| 12        | ASR |             |
| 13        | ASR |             |
| 14        | ASR |             |
| 15        | ASR |             |
| 16        | ASR |             |
| 17        | ASR |             |
| 18        | ASR |             |
| 19        | ASR |             |
| 20        | ASR |             |
| 21        | ASR |             |
| 22        | ASR |             |
| 23        | ASR |             |
| 24        | ASR |             |
| 25        | ASR |             |
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| 27        | ASR |             |
| 28        | ASR |             |
| 29        | ASR |             |
| 30        | ASR |             |
| 31        | ASR |             |
| 32        | ASR |             |
| 33        | ASR |             |
| 34        | ASR |             |
| 35        | ASR |             |
| 36        | ASR |             |
| 37        | ASR |             |
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| 39        | ASR |             |
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| 43        | ASR |             |
| 44        | ASR |             |
| 45        | ASR |             |
| 46        | ASR |             |
| 47        | ASR |             |
| 48        | ASR |             |
| 49        | ASR |             |
| 50        | ASR |             |
| 51        | ASR |             |
| 52        | ASR |             |
| 53        | ASR |             |
| 54        | ASR |             |
| 55        | ASR |             |
| 56        | ASR |             |
| 57        | ASR |             |
| 58        | ASR |             |
| 59        | ASR |             |
| 60        | ASR |             |
| 61        | ASR |             |
| 62        | ASR |             |
| 63        | ASR |             |
| 64        | ASR |             |
| 65        | ASR |             |
| 66        | ASR |             |
| 67        | ASR |             |
| 68        | ASR |             |
| 69        | ASR |             |
| 70        | ASR |             |
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| 73        | ASR |             |
| 74        | ASR |             |
| 75        | ASR |             |
| 76        | ASR |             |
| 77        | ASR |             |
| 78        | ASR |             |
| 79        | ASR |             |
| 80        | ASR |             |
| 81        | ASR |             |
| 82        | ASR |             |
| 83        | ASR |             |
| 84        | ASR |             |
| 85        | ASR |             |
| 86        | ASR |             |
| 87        | ASR |             |
| 88        | ASR |             |
| 89        | ASR |             |
| 90        | ASR |             |
| 91        | ASR |             |
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| 93        | ASR |             |
| 94        | ASR |             |
| 95        | ASR |             |
| 96        | ASR |             |
| 97        | ASR |             |
| 98        | ASR |             |
| 99        | ASR |             |
| 100       | ASR |             |

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH AVE. NE.)

Fed. Proj. No.

905

900

895

890

885

900

895

890

885

880

900

895

890

885

880

| EXCAVATION | EMBANKMENT |
|------------|------------|
| cu. yd.    | cu. yd.    |

1117

0

615

0

300  
M. 30

137  
M. 4

41+00

40+00

39+00

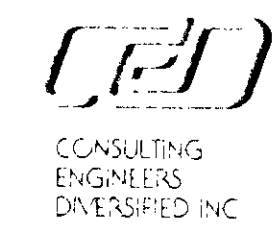
Q. OF SECTION

95' R.O.W.

60' R.O.W.

85' R.O.W.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of Minnesota, Registration No. 10206.  
 Date 8/10/84  
 [Signature]



Engineering Consultants  
 Diversified Inc.  
 Suite 202  
 7200 Hennepin Avenue  
 Minneapolis, MN 55425  
 612-425-2151

| REVISIONS |          |
|-----------|----------|
| 0         | HORIZ 10 |
| 0         | VERT 5   |

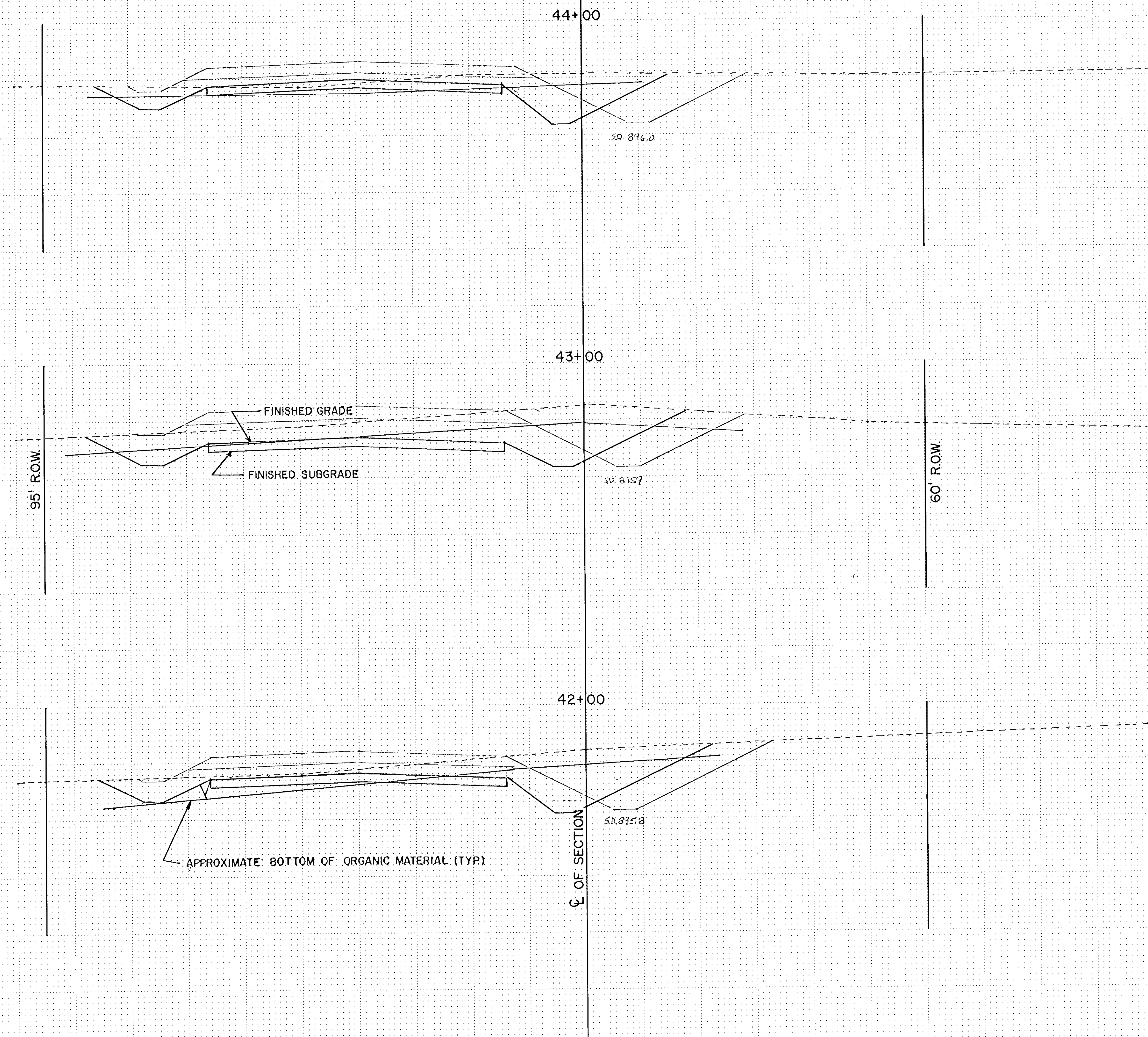
DESIGNED BY  
 CHECKED BY  
 DRAWN BY SC

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH. AVE. N.E.)

DR. BOONE - PG. LEAD DATE SHEET 19 OF 26 SHEETS FILE NO. AC41308.302

State Proj. No. C.R. 84-16-112

Sheet No. of Sheets



| EXCAVATION | EMBANKMENT |
|------------|------------|
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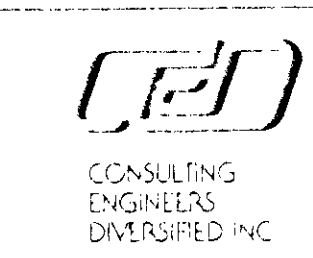
|       |     |
|-------|-----|
| 313   | 0   |
| M 441 | M 0 |

|       |     |
|-------|-----|
| 374   | 44  |
| M 556 | M 4 |

|       |     |
|-------|-----|
| 789   | 44  |
| M 282 | M 4 |

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Wisconsin laws, No. 106,000, dated 10/10/06.

*[Signature]*  
Date: 8/16/07 Min. Reg. No. 10706



Engineering Consultant  
Greater Milwaukee  
Suite 250  
7200 Lakeside Avenue North  
Milwaukee, WI 53226  
414-228-7181

|             |    |
|-------------|----|
| DESIGNED BY |    |
| CHECKED BY  |    |
| DRAWN BY    | SC |

ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109 TH. AVE. N.E.)

DATE: \_\_\_\_\_ SHEET 20 OF 26 SHEETS FILE NO. AC2130B302

Fed. Proj. No.

905

900

895

890

885

905

900

895

890

885

905

900

895

890

885

| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |

|     |     |
|-----|-----|
| 191 | 176 |
|-----|-----|

|     |     |
|-----|-----|
| 802 | 113 |
|-----|-----|

|       |     |
|-------|-----|
| 717   | 0   |
| M 167 | M 0 |

47+00

46+00

45+00

95' R.O.W.

60' R.O.W.

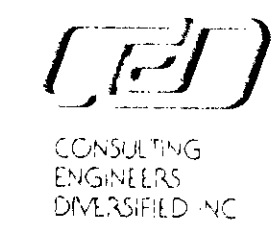
Q. OF SECTION

52 316.6

POND

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under state or local statutes.

*S. J. Leas*  
Date 5/16/87 Minn. Reg. No. 10206



Engineering Corporation  
1200 University Ave.  
St. Paul, MN 55102  
612-425-2161

| REVISIONS |  |
|-----------|--|
|           |  |
|           |  |

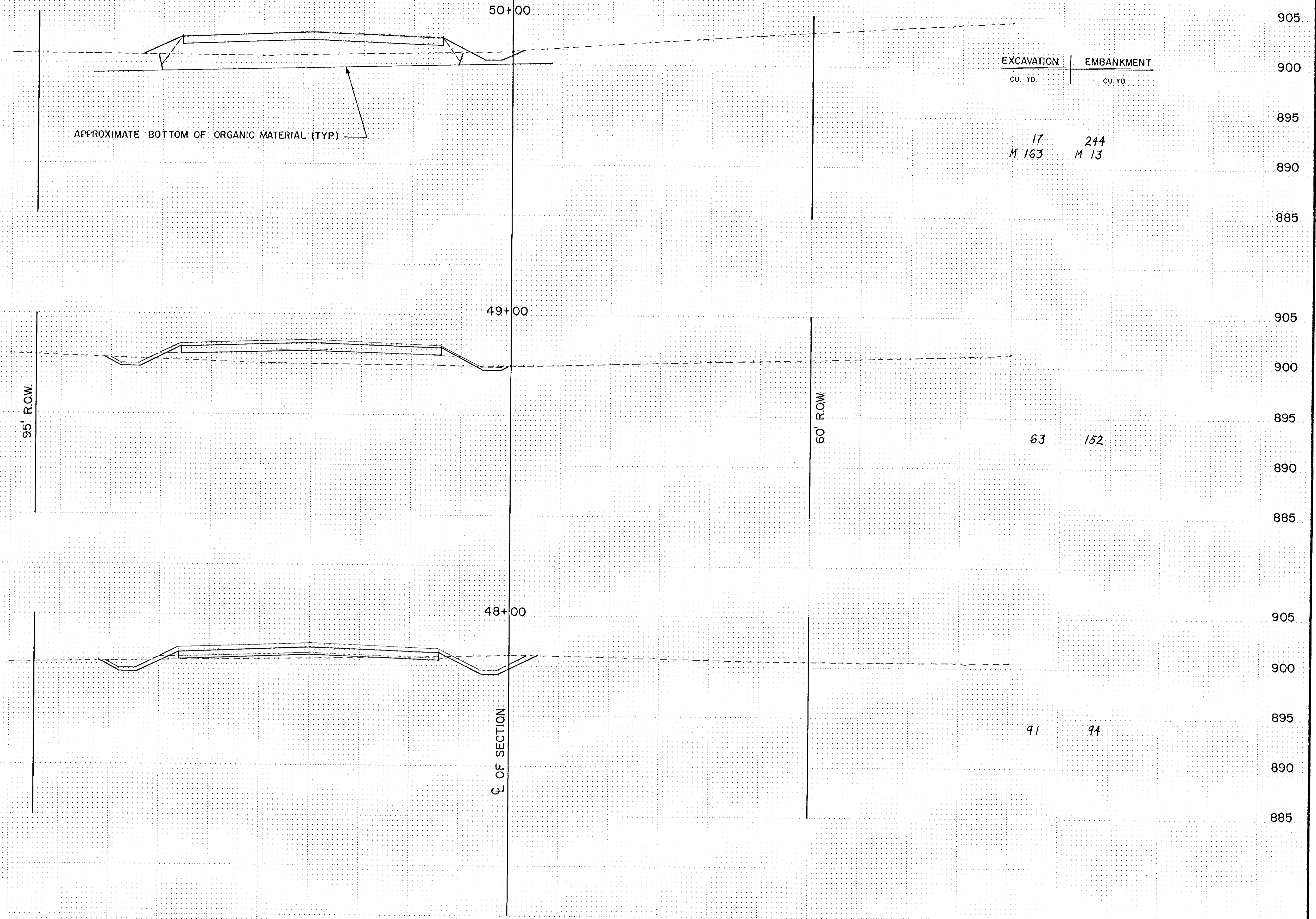
DESIGNED BY  
CHECKED BY  
DRAWN BY


ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109TH. AVE. N.E.)

DR. LOOSE, INC. LEAF DATE APRIL 1987 SHEET 21 OF 26 SHEETS FILE NO. AC4308.302

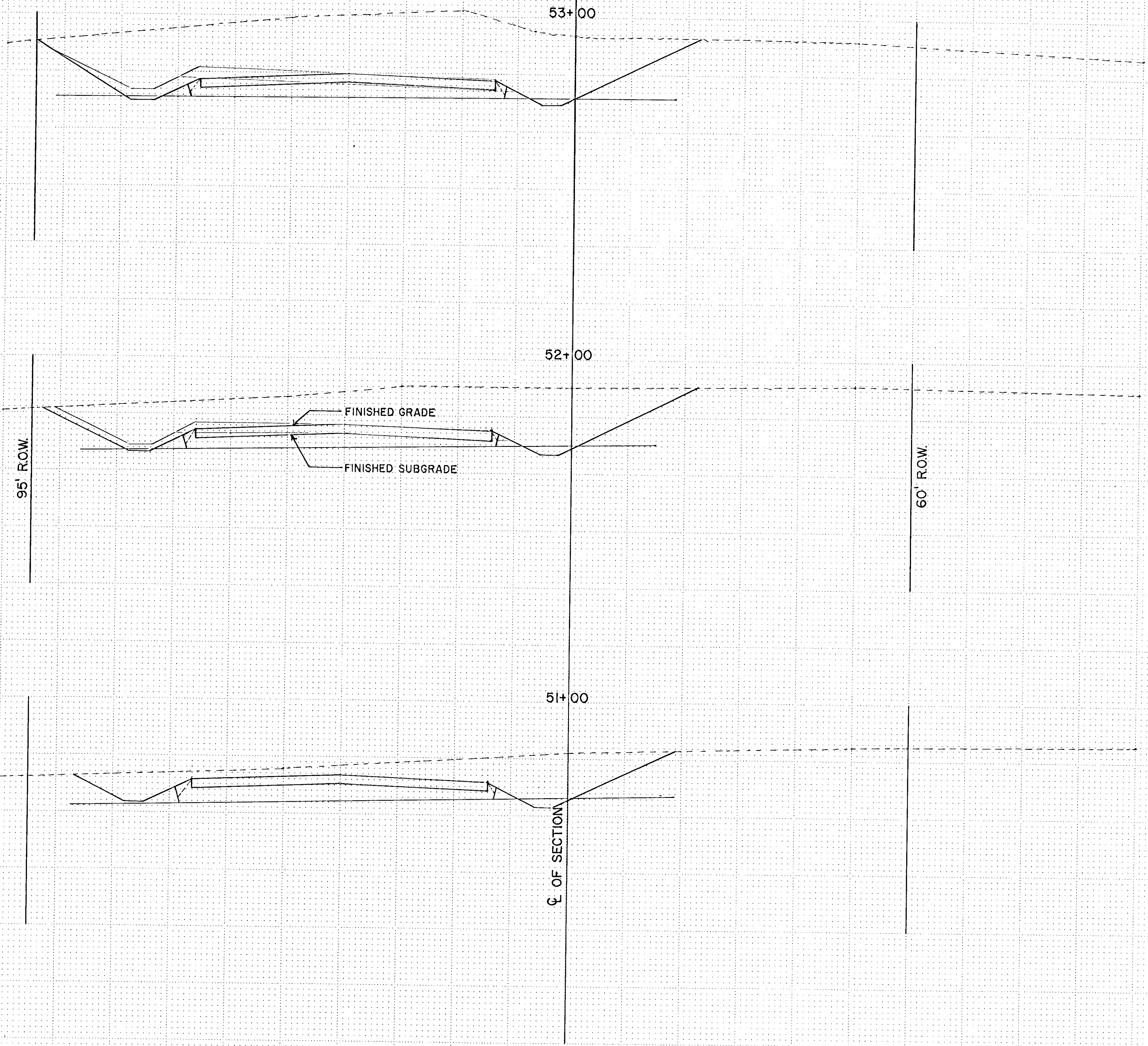
State Proj. No. C.P. 84-16-112

Sheet No. of Sheets



|  |  |   |   |  |
|--|--|---|---|--|
| <p>I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Wisconsin Statutes chapters 314 and 316.15</p> <p><i>Jeffrey + Veer</i><br/>Date <u>5/10/84</u> Minn. Reg. No. <u>10356</u></p> | <br>CONSULTING ENGINEERS DIVERSIFIED, INC.<br>700 Hennepin Ave. N.W.<br>Minneapolis, MN 55409<br>612-439-7161 | REVISIONS<br>0 HORIZ 10<br>0 VERT 5   | DESIGNED BY<br>CHECKED BY<br>DRAWN BY<br>SL | ANOKA COUNTY HIGHWAY DEPT.<br>CROSS SECTIONS<br>COUNTY ROAD 112 (109TH. AVE. N.E.) |
|  |  | DATE <u>APRIL 1984</u> SHEET <u>22</u> OF <u>26</u> SHEETS FILE NO. <u>AC4308.302</u> | SK <u>COOPER PG 068E</u>                    |  |

Fed. Proj. No.



| EXCAVATION | EMBANKMENT |
|------------|------------|
| CU. YD.    | CU. YD.    |
| 28         | 200        |
| M 2087     | M 26       |

|        |      |
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| M 1452 | M 28 |

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| M 709 | M 28 |

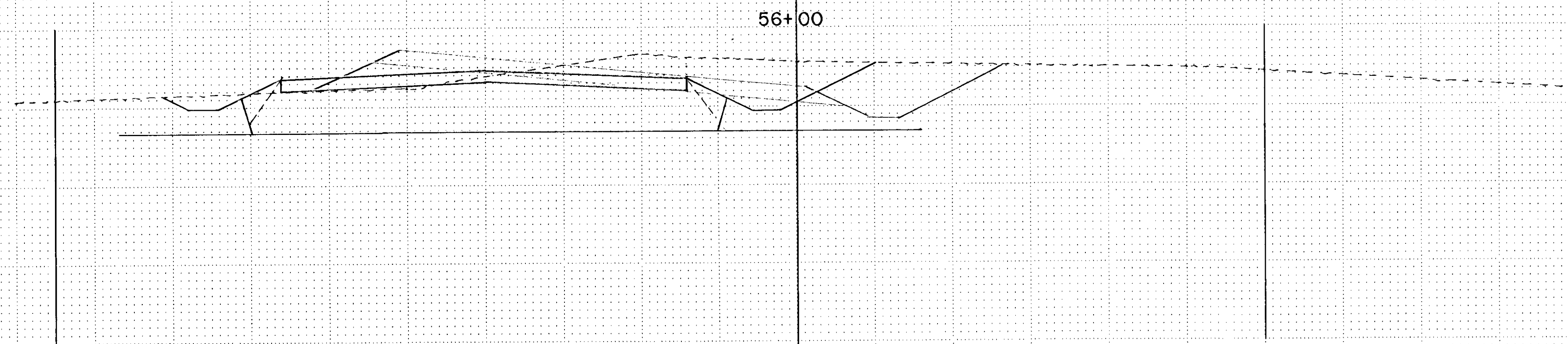
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|  |   |   |               |             |   |
|--|---|---|---------------|-------------|---|
| <p>I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota Statutes Sections 336.01 to 336.16.</p> <p><i>J. P. Jones</i><br/>Date 3/10/84 Reg. No. 10206</p> | <p>CONSULTING ENGINEERS DIVERSIFIED, INC.</p> | <p>Engineering Consultants and Surveyors</p> <p>Suite 200<br/>7200 Hennepin Avenue North<br/>Minneapolis, MN 55430<br/>612-255-2151</p> | REVISIONS     | DESIGNED BY | <p>ANOKA COUNTY HIGHWAY DEPT.<br/>CROSS SECTIONS<br/>COUNTY ROAD 112 (109TH. AVE. N.E.)</p> |
|  |   |   | GRAPHIC SCALE | CHECKED BY  |   |
|  |   |   | 0 HORIZ 10    |             | APRIL 1984  |
|  |   |   | 0 VERT 5      | SL          | SHEET 23 OF 26 SHEETS FILE NO. AC4308.202   |

State Proj. No. C.P. 84-16-112

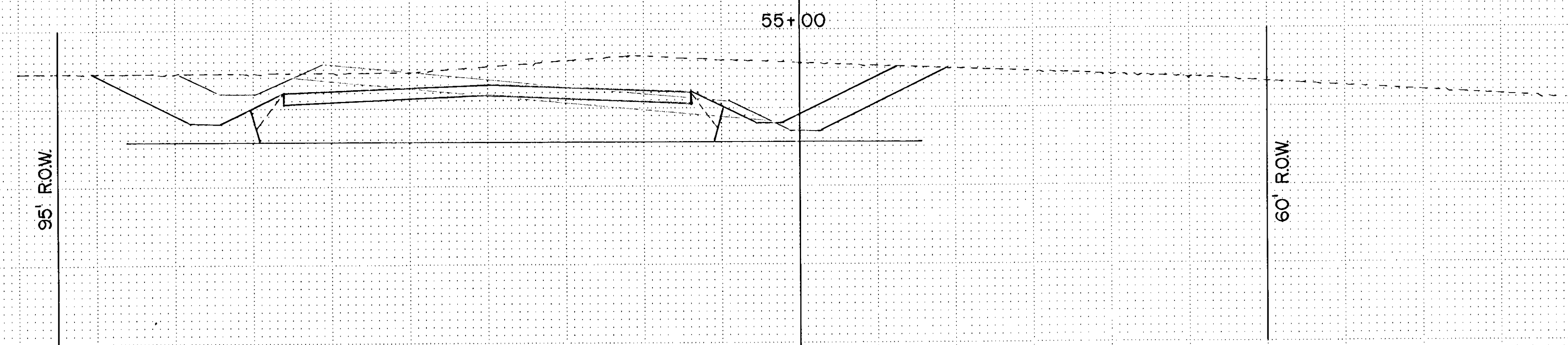
Sheet No. of Sheets





| EXCAVATION | EMBANKMENT |
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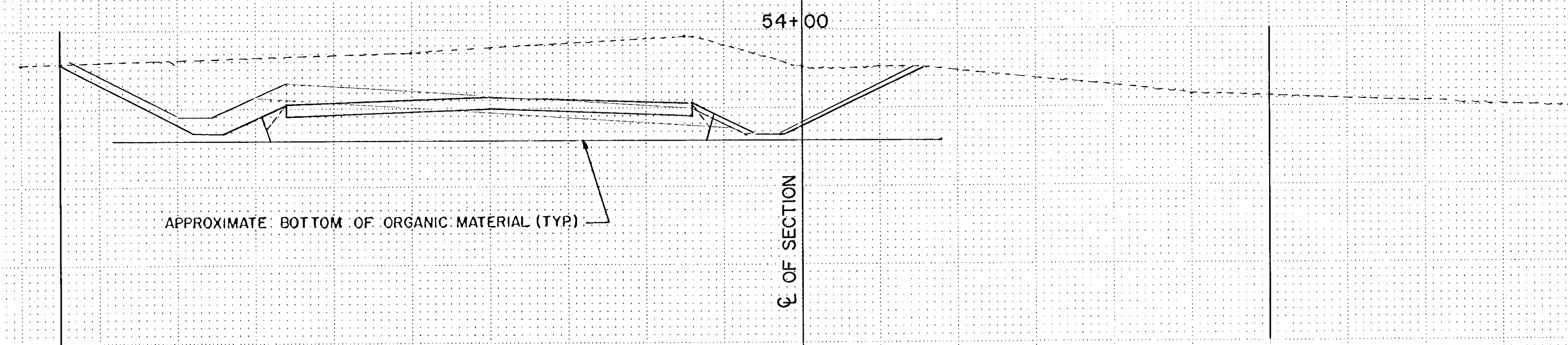
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| M 1263 | M 26 |



95' ROW

60' ROW

|        |      |
|--------|------|
| 0      | 498  |
| M 1721 | M 22 |



APPROXIMATE BOTTOM OF ORGANIC MATERIAL (TYP)

Q OF SECTION

|        |      |
|--------|------|
| 15     | 296  |
| M 2139 | M 20 |

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Chapters 326.00 to 326.15

*Jeffrey Ross*  
Date: 8/10/84 Minn. Reg. No. 10206

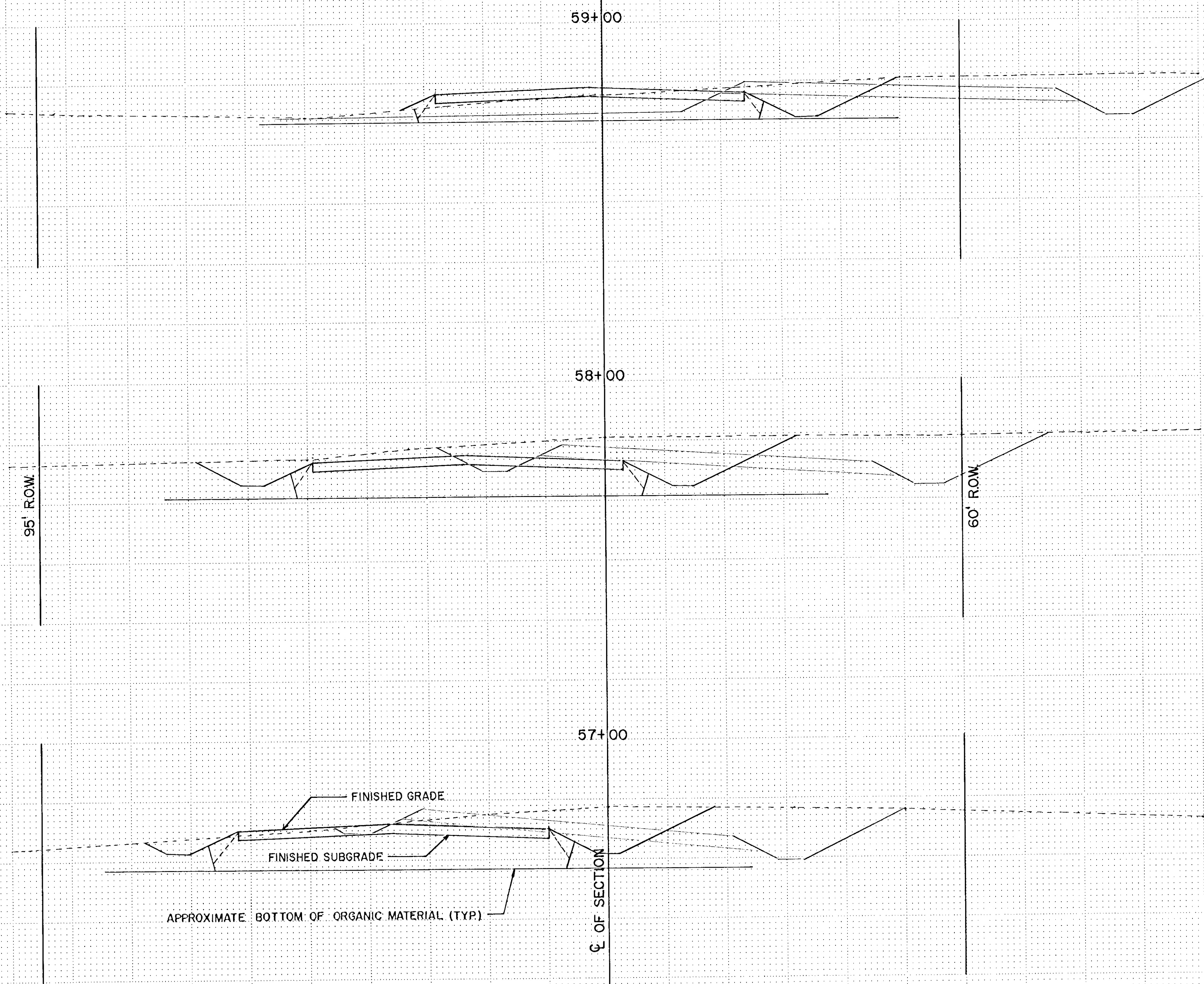
**CEI**  
CONSULTING ENGINEERS DIVERSIFIED INC.  
1116 JCC  
1500 Hennepin Avenue  
Minneapolis, MN 55409  
612-725-2184

| REVISIONS |       | DESIGNED BY |
|-----------|-------|-------------|
| 1         | HORIZ | JK          |
| 2         | VERT  | SL          |

ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109 TH. AVE. NE.)

DATE: APRIL 1984 SHEET: 24 OF 26 SHEETS FILE NO: AC-4308.302

915  
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| EXCAVATION | EMBANKMENT |
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| cu. yd.    | cu. yd.    |

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M 1256 M 33

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M 1085 M 22

59+00

58+00

57+00

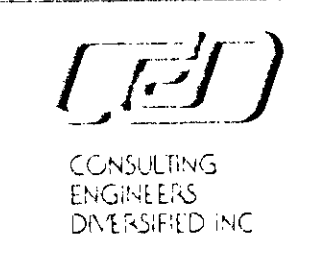
95' ROW

60' ROW

C. OF SECTION

FINISHED GRADE  
FINISHED SUBGRADE  
APPROXIMATE BOTTOM OF ORGANIC MATERIAL (TYP.)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under State of Minnesota Statutes Sections 316.02 to 316.15  
Date: 3/10/84 Minn. Reg. No. 10286



Engineering Consultants  
Suite 200  
7200 Hennepin Ave. North  
Maple Grove, MN 55069  
612 425 2151

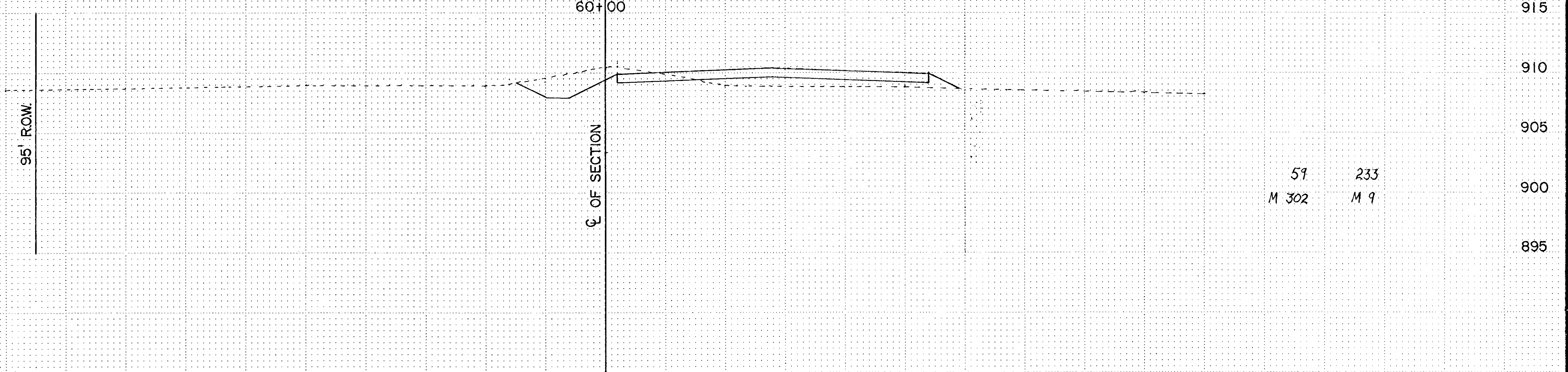
| REVISIONS     |  |
|---------------|--|
| GRAPHIC SCALE |  |
| ○ HORIZ 10    |  |
| ○ VERT 5      |  |

DESIGNED BY  
CHECKED BY  
DRAWN BY SC

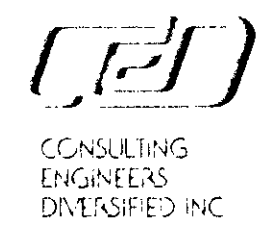
ANOKA COUNTY HIGHWAY DEPT.  
CROSS SECTIONS  
COUNTY ROAD 112 (109TH. AVE. NE.)  
DATE: APRIL 1984 SHEET 25 OF 26 SHEETS FILE NO. AC4308302

Stat. Proj. No.

|            |            |
|------------|------------|
| EXCAVATION | EMBANKMENT |
| CU. YD.    | CU. YD.    |



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under State of Minnesota Statutes Section 326.02 to 326.16.  
 Date 6/12/84 Minn. Reg. No. 10226



Engineering Consultants  
 & Land Surveyors  
 Suite 200  
 7200 Hennepin Avenue North  
 Maple Grove, MN 55067  
 612-455-2181

|               |             |
|---------------|-------------|
| REVISIONS     | DESIGNED BY |
| GRAPHIC SCALE | CHECKED BY  |
| 0 HORIZ 10    | DRAWN BY    |
| 0 VERT 5      | SA          |

ANOKA COUNTY HIGHWAY DEPT.  
 CROSS SECTIONS  
 COUNTY ROAD 112 (109TH. AVE. NE.)  
 5X LOOSE 1/2 LEAF DATE APRIL 1984 SHEET 26 OF 26 SHEETS FILE NO ACA130B302

State Proj. No. C.P. 84-16-112

Sheet No. of Sheets