Pt. O.L. 121

Parcel 10T

TEMPORARY EASEMENT FOR REMOVAL
OF GARAGE, GRADING, RESEEDING

**********

Pt. O.L. 121

Parcel 9WD

R & M Huston

Known as and being part of O.L. 121 in the City of Massillon, Stark County, Ohio and being more fully described as follows:

Commencing at the northwest corner of O.L. 121, said point being on the centerline of Lincoln Way N.W.;

Thence S0°23'00"W along the west line of O.L. 121, a distance of 190.49' to the true place of beginning of the tract herein described;

Thence N88°44'00"E along the south line of a tract presently owned by T. Reinoehl, a distance of 7.27' to a point;

Thence S1°13'45"W, a distance of 65.05' to a point on the south line of the tract presently owned by R & M Huston;

Thence S88°50'58"W along said south line of the Huston tract, a distance of 6.31' to a point on the west line of O.L. 121;

Thence N0°23'00"E along said west line a distance of 65.00' to the true place of beginning containing 441 square feet or 0.010 acres.

********** Randy J. Hogan

P-306

Pt. of Lot No. 4999
and Lot No. 5000

Known as and being part of Lot No. 4999 and Lot No. 5000 in the City of Massillon, Stark County, Ohio, and being more fully described as follows:

The true place of beginning being at the southeast corner of Lot No. 4999 said point also being the intersection of the north right of way line of Lincoln Way Northwest and the west right of way line of existing 17th St. N.W.;

Thence N85°40'10"W along the north right of way line of Lincoln Way N.W., a distance of 51.10' to the southwest corner of Lot No. 4999;

Thence continuing N85°40'10"W along said north right of way line, a distance of 13.65' to a point;

Thence N52°11'35"E a distance of 17.33' to a point on the west line of Lot No. 4999;

Thence continuing N52°11'35"E a distance of 19.75' to a point;

Thence N10°03'17"E a distance of 197.41' to a point on the north line of Lot No. 4999;

Thence S89°54'01"E along the north line of said Lot No. 4999, a distance of 2.29' to the northeast corner of said Lot No. 4999;

Thence S0°23'00"W along the east line of Lot No. 4999 said line also being the west right of way line of existing 17th St. N.W.; a distance of 222.00' to the true place of being containing 4884 square feet or 0.112 acres of Lot No. 4999 and 79 sq. feet or 0.001 acres of Lot No. 5000.

**********

Pt. O.L. 121

Parcel 10 WD

T. Reinoehl

**********

Known as and being part of O. L. 121 in the City of Massillon Stark County, Ohio and being more fully described as follows:

The true place of beginning being at the northwest corner of said Out Lot 121.

Thence S85°06'33"E along the north line of O. L. 121, said line also being on the Centerline of Lincoln Way Northwest, a distance of 37.01' to a point;

Thence S4°53'27"W a distance of 30.00' to a point on the existing south right of way line of Lincoln Way N.W.,

Thence S48°03'34"W a distance of 34.21' to a point;

Thence S1°13'45"W a distance of 134.42' to a point on the south line of the tract presently owned by T. Reinoehl;

Thence S88°44'00"W along the said south line a distance of 7.27' to a point on the west line of O.L. 121;

Thence N0°23'00"E along said west line a distance of 160.38' to a point on the south Right of Way line of Lincoln Way, N.W.'

Thence continuing N0°23'00"E, a distance of 30.09' to the true place of beginning containing 2737 sq.feet or 0.062 acres.

**********

Pt. O.L. 121

Parcel 8 WD

J. & J. Starrett

Known as and being part of O.L. 121 in the City of Massillon, Stark County, Ohio, and being more fully described as follows:

Commencing at the northwest corner of O.L.121, said point being on the centerline of Lincoln Way N.W.;

Thence S0°23'00"W along the west line of O.L. 121, a distance of 255.49' to the true place of beginning of the tract herein described;

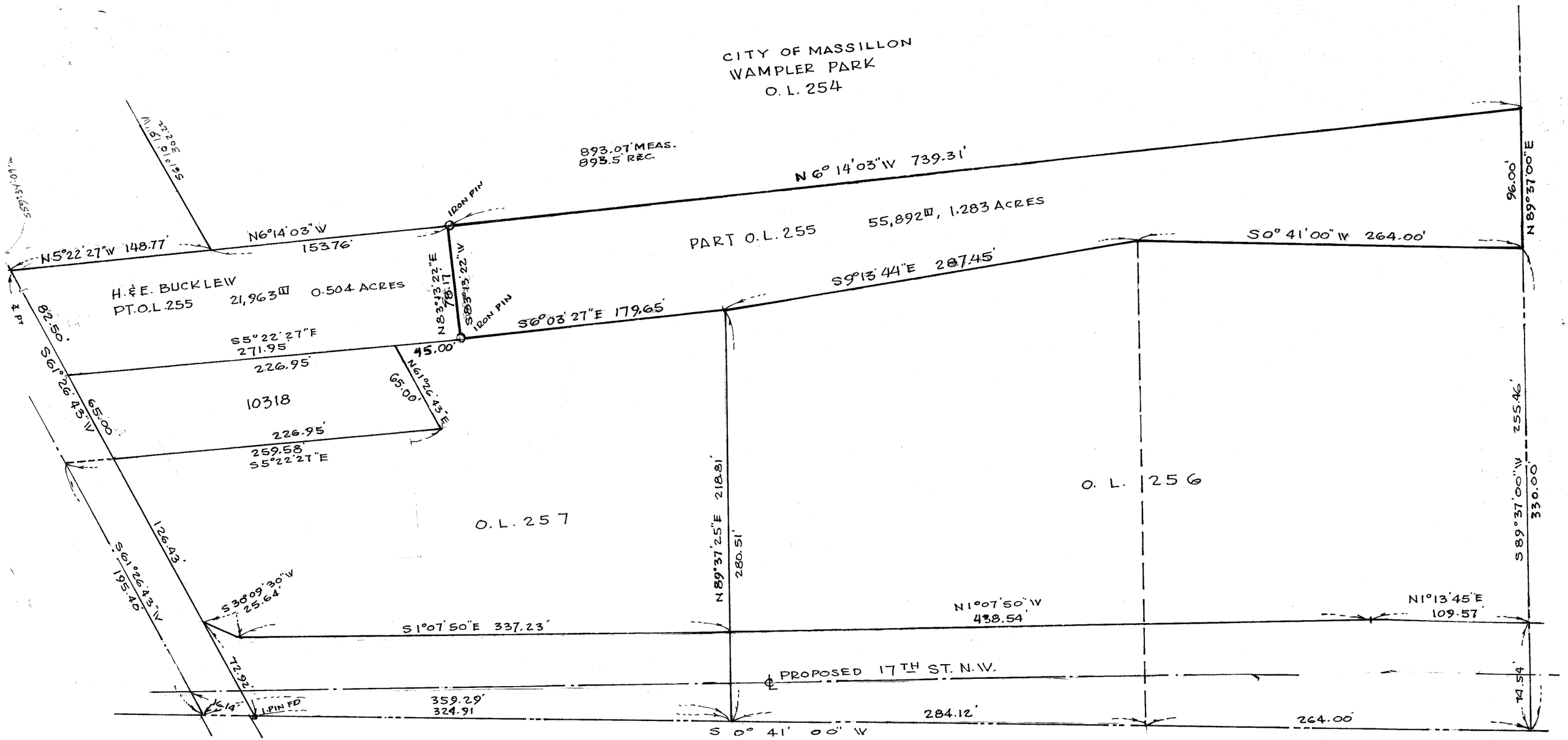
Thence N88°50'58"E along the south line of a tract presently owned by R & M Huston, a distance of 6.31' to a point;

Thence S1°13'45"W a distance of 265.41' to a point on the south line of a tract presently owned by J & J Starrett;

Thence N85°30'53"W along said south line of the Starrett tract, a distance of 2.39' to a point on the west line of O.L. 121;

Thence N0°23'00"E along said west line a distance of 265.05' to the true place of beginning containing 1153 square feet or 0.026 acres.

**********




CITY OF MASSILLON, OHIO

PARCEL MAP, ADDITION TO WAMPLER PARK

O.L. 255

SCALE 1" = 60'

ENG. DEPT., MASSILLON,

AUG. 1978

R.F. WAGONER, ENGINEER

| | | | |
|---|---|---|---|
| 5A WD | 25,194 III | 0.578 ACRES | STR. R/W ; 6,019 III ; 0.138 ACRE P.R.O. MAIN |
| 5B WD | 67515 III | 1.550 ACRES | RESID, FIRE STA. |
| TOTAL PARCES | 92,609 III | 2.128 ACRES | |

CITY OF MASSILLON, OHIO

# PARCEL MAP, 17TH ST. S.W. & N.W.

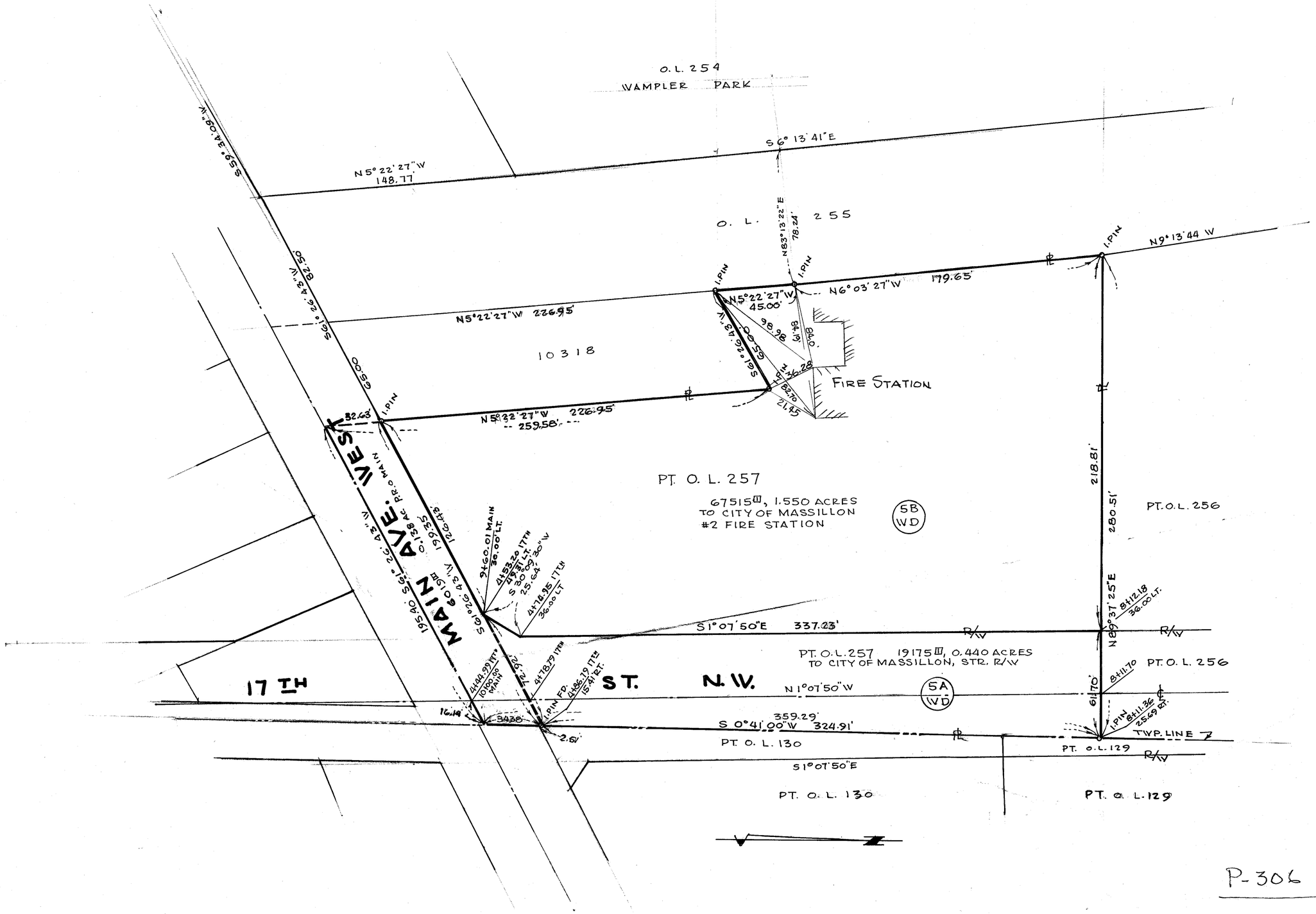
O.L. 257

SCALE 1" = 40'

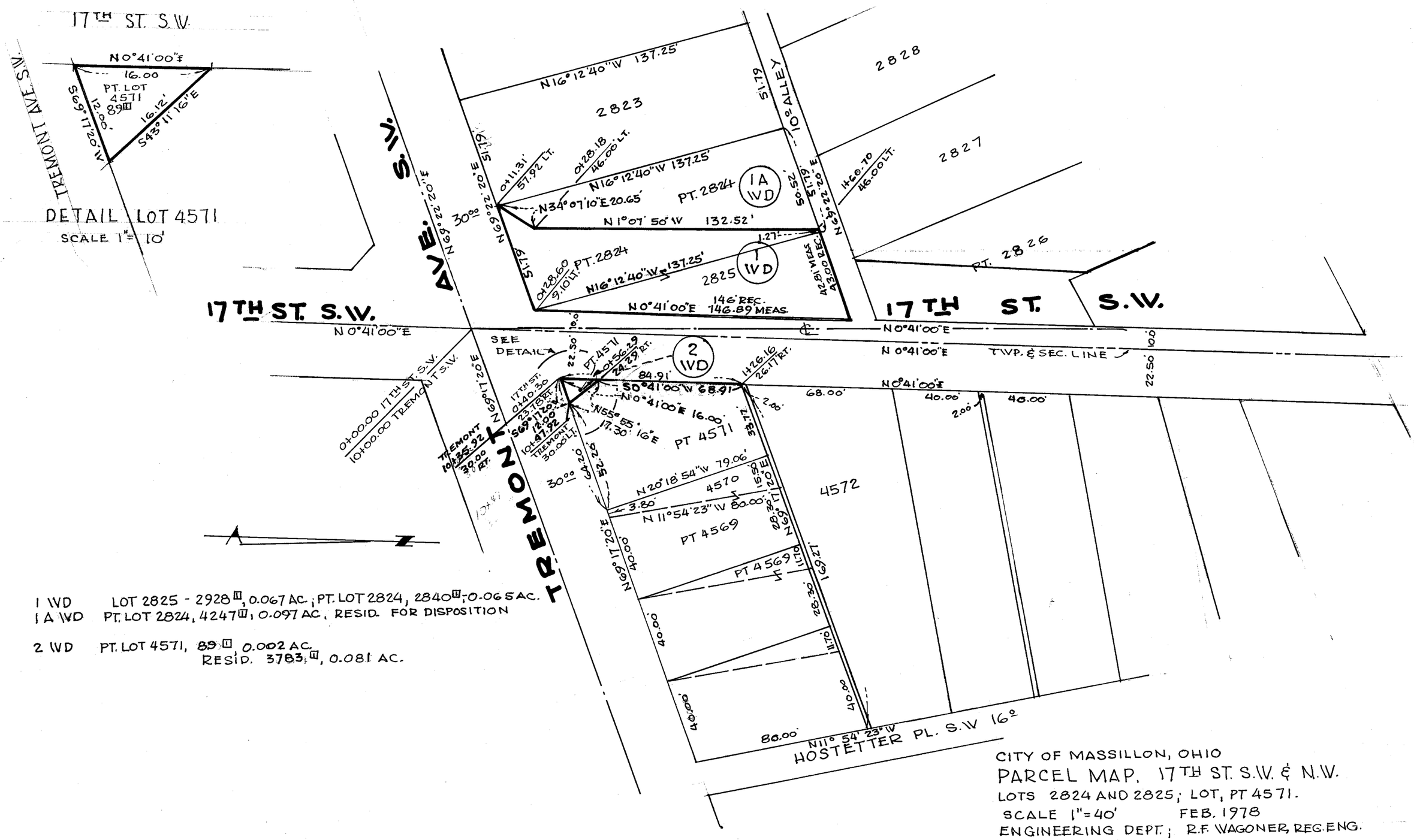
ENG. DEPT., MASSILLON.

FEB. 1978

R.F. WAGONER, ENG




P-306

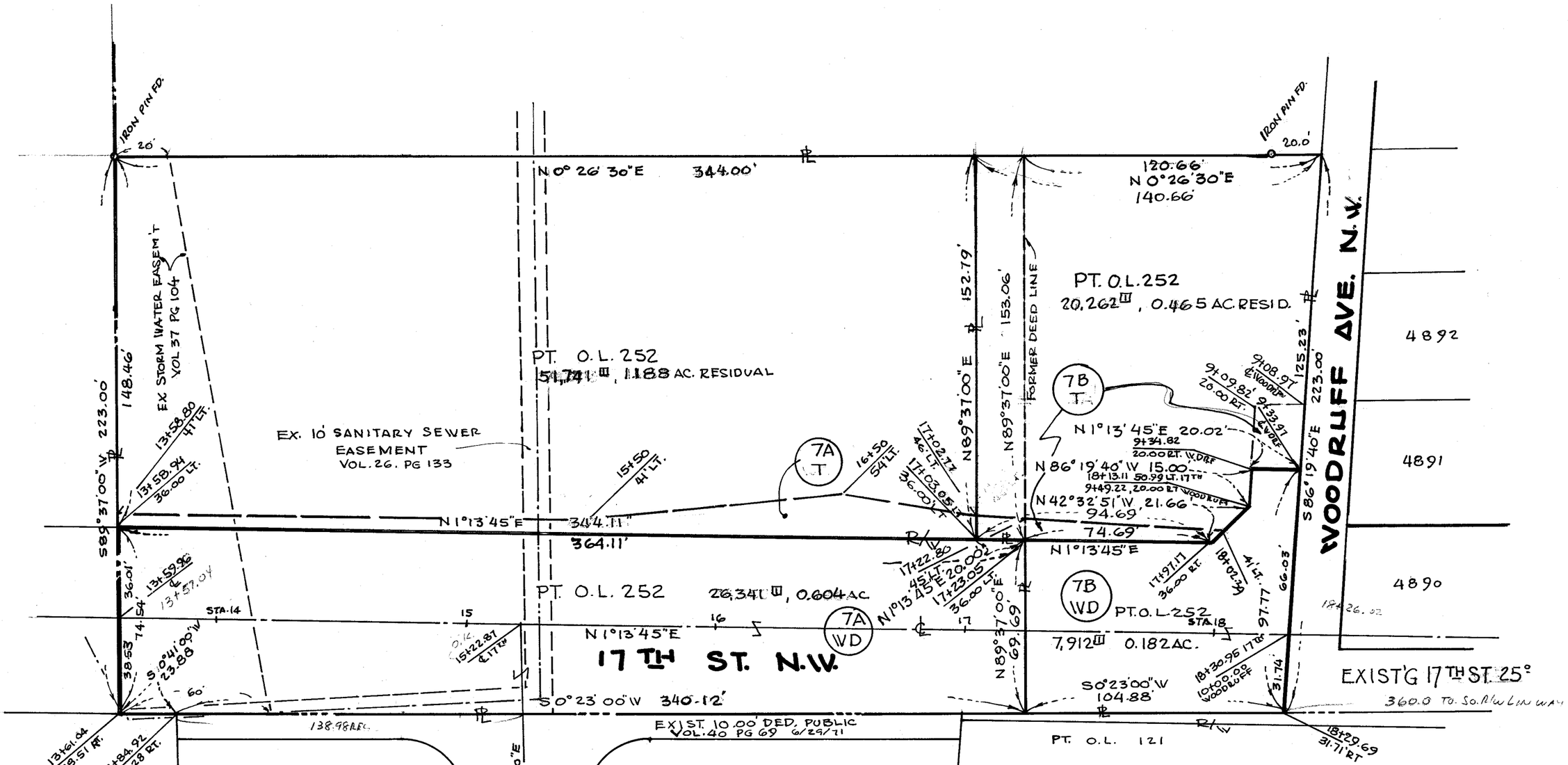



1 IVD LOT 2825 - 2928 □, 0.067 AC.; PT. LOT 2824, 2840 □; 0.065 AC.
1 A IVD PT. LOT 2824, 4247 □, 0.097 AC. RESID. FOR DISPOSITION

2 IVD PT. LOT 4571, 89 □ 0.002 AC.
RESID. 3783 □, 0.081 AC.

CITY OF MASSILLON, OHIO
PARCEL MAP, 17TH ST. S.W. & N.W.
LOTS 2824 AND 2825; LOT, PT 4571.
SCALE 1" = 40' FEB. 1978
ENGINEERING DEPT.; R.F. WAGONER, REG. ENG.
REVISED 10/5/68 - 2 IVD - R.F.W.

2812238




| | | |
|---|---|---|
| 7AWD | 26,341 I, 0.604 ACRES | |
| | 51,741 III, 1.188 ACRES RESIDUAL | |
| 7BWD | 7.912 III | 0.182 ACRES |
| | 20,262 II | 0.465 ACRES RESIDUAL |

CITY OF MASSILLON, OHIO

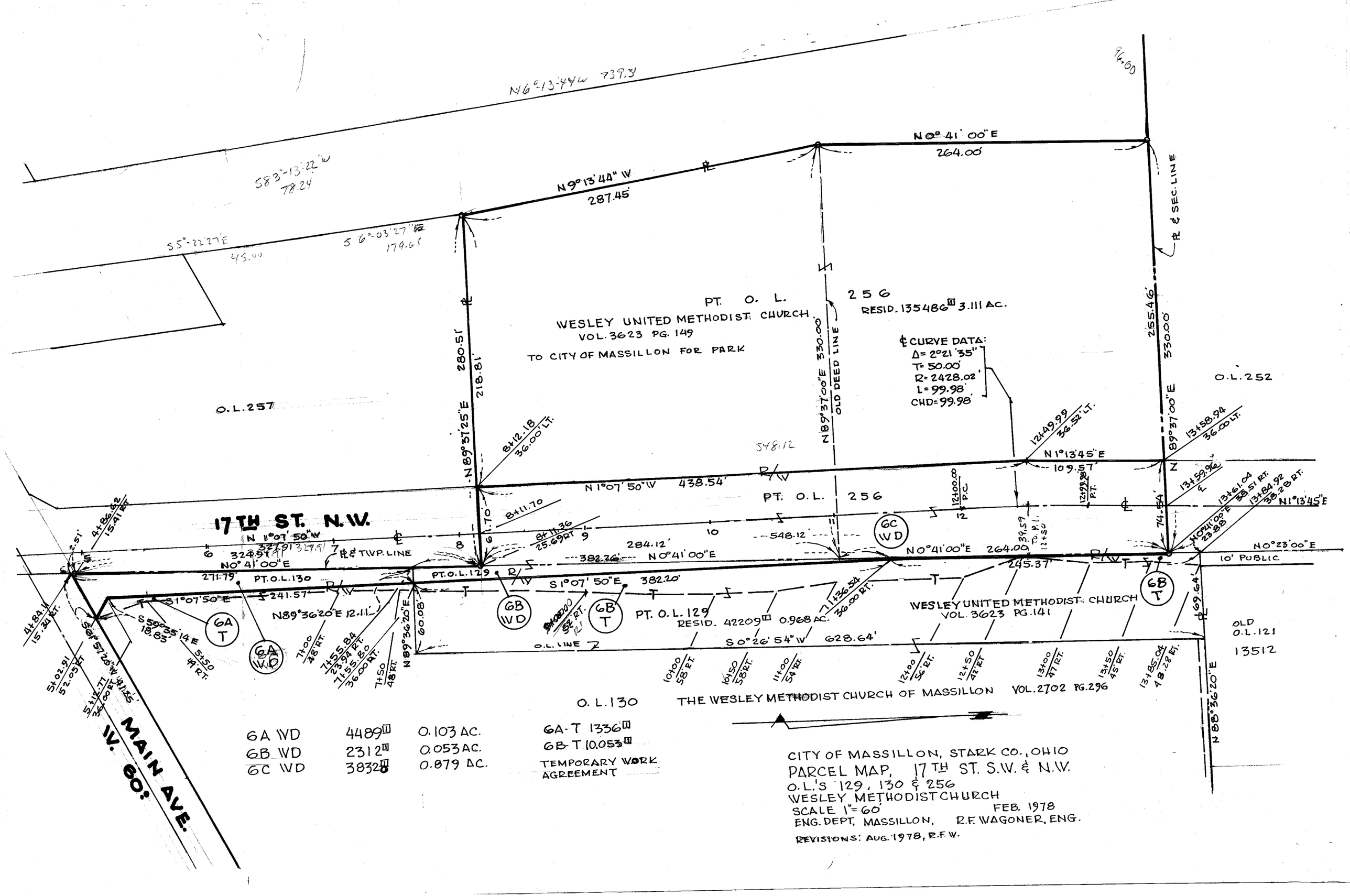
PARCEL MAP, 17TH ST. S.W. & N.W.

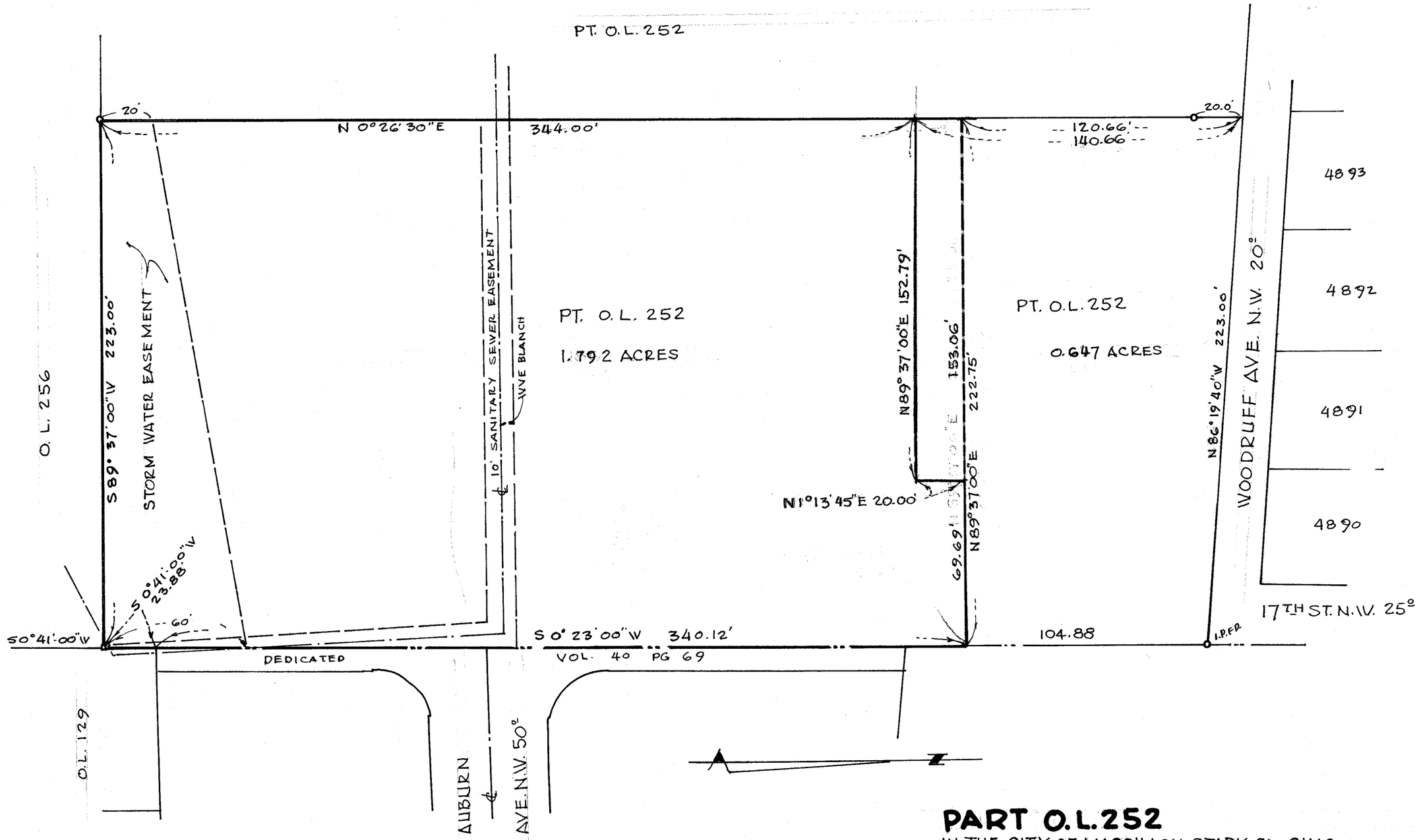
O.L. 252

SCALE 1"=40' FEB, 1978

ENGINEERING DEPT. R.F. WAGONER, REG. ENGINEER

REVISIONS: AUG. 1978, So. R/W NO. PT. O.L. R.F.W.

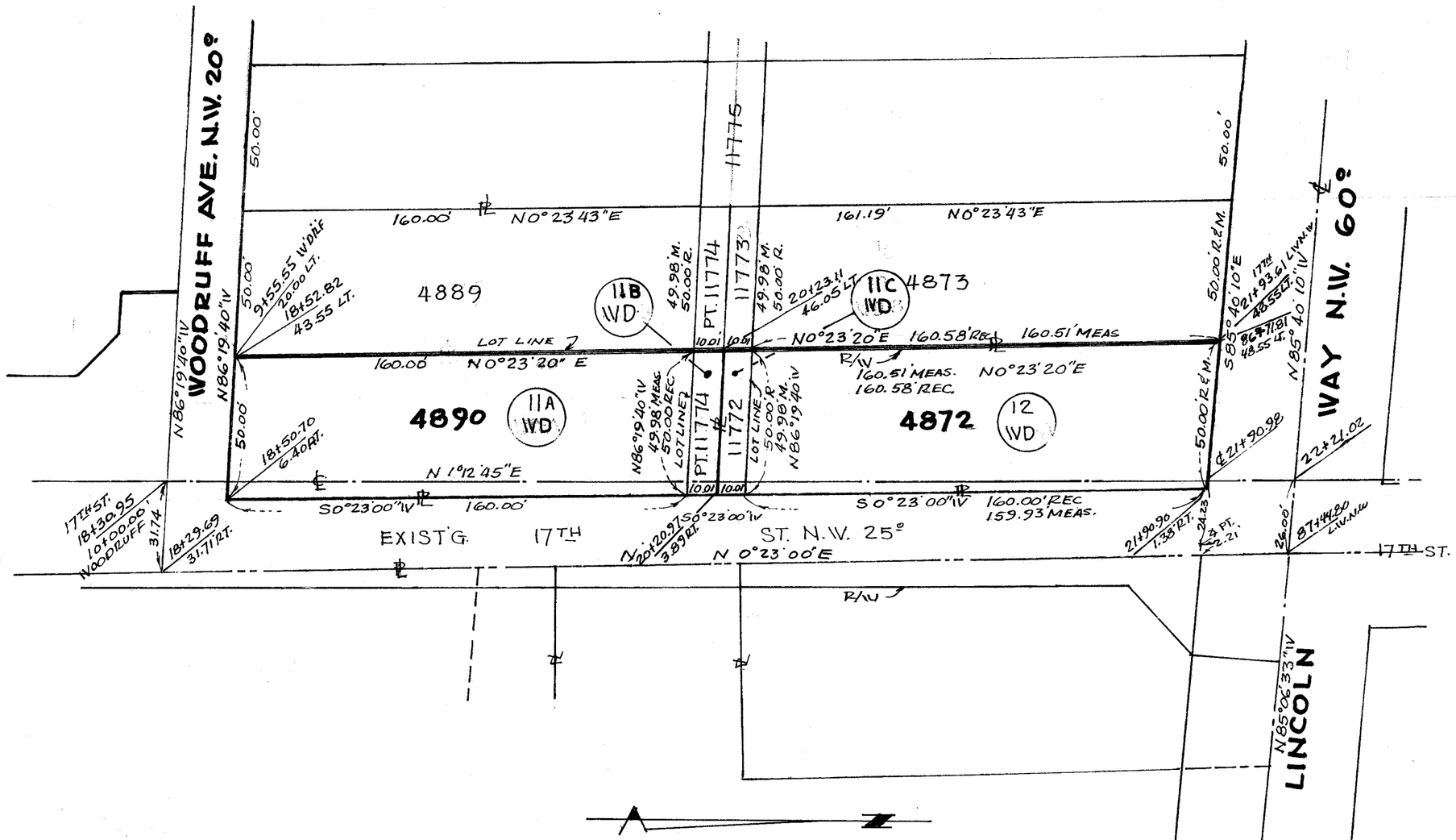

N16°13'44"W 739.3
S83°13'22"W 78.24
S5°22'27"E 45.00
S6°03'27"W 179.65
N9°13'44" W 287.45
N0°41' 00"E 264.00
PT. O. L. 256
WESLEY UNITED METHODIST CHURCH
VOL. 3623 PG. 149
TO CITY OF MASSILLON FOR PARK
256
RESID. 135486 3.111 AC.
OLD DEED LINE
℄ CURVE DATA:
Δ= 2°21'35"
T= 50.00'
R= 2428.02'
L= 99.98'
CHD= 99.98
℄ & SEC. LINE
O.L. 257
O.L. 252
N89°37'00"E 330.00
255.46'
330.00'
280.51'
218.81'
N89°37'25"E
8+12.18 36.00' LT.
12+49.99 36.52' LT.
13+58.94 36.00' LT.
548.12
N1°13'45"E
109.57'
N1°07' 50"W 438.54'
PT. O. L. 256
12+00.00 P.C.
12+99.98 P.T.
13+59.96
8+11.70
8+11.36 25.69 RT
284.12'
548.12'
382.26'
N0°41'00"E
264.00
39.59 To P.I. 12+50
245.37'
N0°23'00"E
10' PUBLIC
17TH ST. N.W.
N 1°07' 50"W 327.91
℄ & TWP. LINE
N0°41'00"E
271.79'
PT.O.L.130
PT.O.L.129
S1°07' 50"E 382.20'
S1°07'50"E 241.57'
N89°36'20"E 12.11'
S59°35'14"E 18.83'
S6°57'28"W 14.35'
PT. O. L. 129
RESID. 42209 0.968 AC.
WESLEY UNITED METHODIST CHURCH
VOL. 3623 PG. 141
S0°26'54"W 628.64'
O.L. LINE Z
OLD O.L. 121
13512
N88°36'20"E
O. L. 130
THE WESLEY METHODIST CHURCH OF MASSILLON VOL. 2702 PG. 296
MAIN AVE.
W. 60'
6A WD 4489 0.103 AC.
6B WD 2312 0.053 AC.
6C WD 3832 0.879 AC.
6A-T 1336
6B-T 10.053
TEMPORARY WORK AGREEMENT
CITY OF MASSILLON, STARK CO., OHIO
PARCEL MAP, 17TH ST. S.W. & N.W.
O.L.'S 129, 130 & 256
WESLEY METHODIST CHURCH
SCALE 1"=60'
FEB. 1978
ENG. DEPT. MASSILLON, R.F. WAGONER, ENG.
REVISIONS: AUG. 1978, R.F.W.




# PART O.L.252

IN THE CITY OF MASSILLON, STARK CO., OHIO
FOR THOMAS LAUGHLIN, 791 OAKCREST LN. N.E.
MARCH, 1978 BY ROBERT F. WAGONER, REG. SURVEYOR
SCALE 1"=40'
REVISION: AUG. 1978, R.F. WAGONER

| | | | |
|---|---|---|---|
| 11-A WD | 7984 □ | 0.183 AC. | LOT NO. 4890 - TOTAL TAKE |
| 11-B WD | 499 □ | 0.011 AC. | PT. LOT NO. 11774 |
| 12-A WD | 799.3 □ | 0.183 AC. | LOT NO. 4872 TOTAL TAKE & BUILDING |
| 11-C WD | 499 □ | 0.011 AC. | LOT NO. 11772 TOTAL TAKE |




CITY OF MASSILLON, OHIO

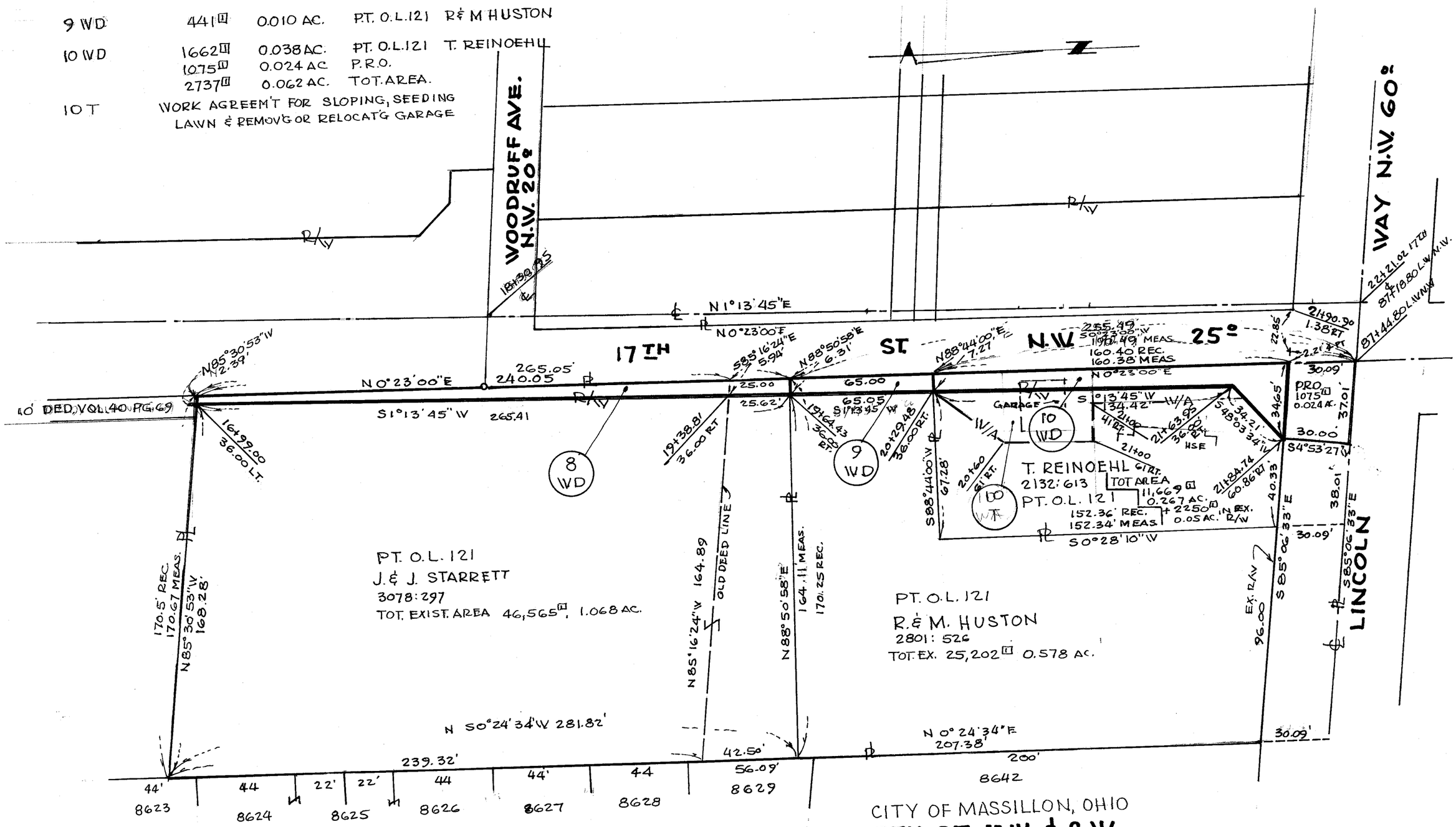
**17TH ST. N.W. & S.W.**

LOTS 4890, 11772, 4872 & PT. LOT 11774

SCALE 1" = 40'
ENG. DEPT.

MAY 1978
R.F. WAGONER, REG ENGINEER

| | | | |
|---|---|---|---|
| 8 WD | 1153 □ | 0.026 AC. | PT. O.L. 121 J.&J. STARRETT |
| 9 WD | 441 □ | 0.010 AC. | PT. O.L. 121 R.& M. HUSTON |
| 10 WD | 1662 □ | 0.038 AC. | PT. O.L. 121 T. REINOEHL |
| | 1075 □ | 0.024 AC | P.R.O. |
| | 2737 □ | 0.062 AC. | TOT. AREA. |
| 10 T | WORK AGREEM'T FOR SLOPING, SEEDING LAWN & REMOV'G OR RELOCAT'G GARAGE | | |




CITY OF MASSILLON, OHIO

# 17TH ST. N.W. & S.W

O.L. 121

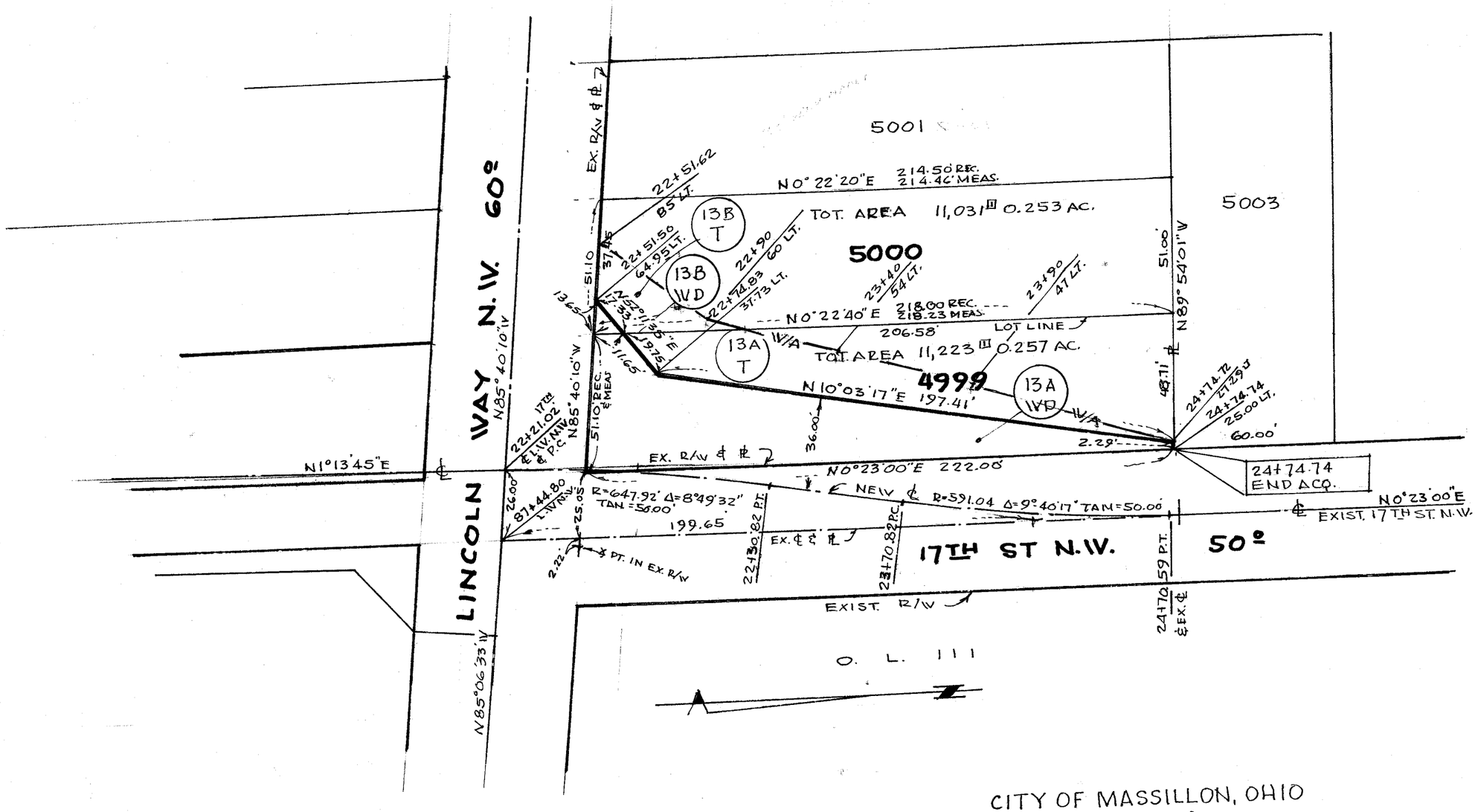
SCALE 1" = 40'

ENGINEERING DEPT.

MAY, 1978

R.F. WAGONER, ENGINEER

13A WD 4884 0.112 AC. PT. LOT 4999
13A T WORK AGREEM'T TO REGRADE SLOPES & SEEDING
13B WD 79 0.001 AC PT. LOT 5000
13B T WORK AGREEM'T TO REGRADE SLOPES & SEEDING



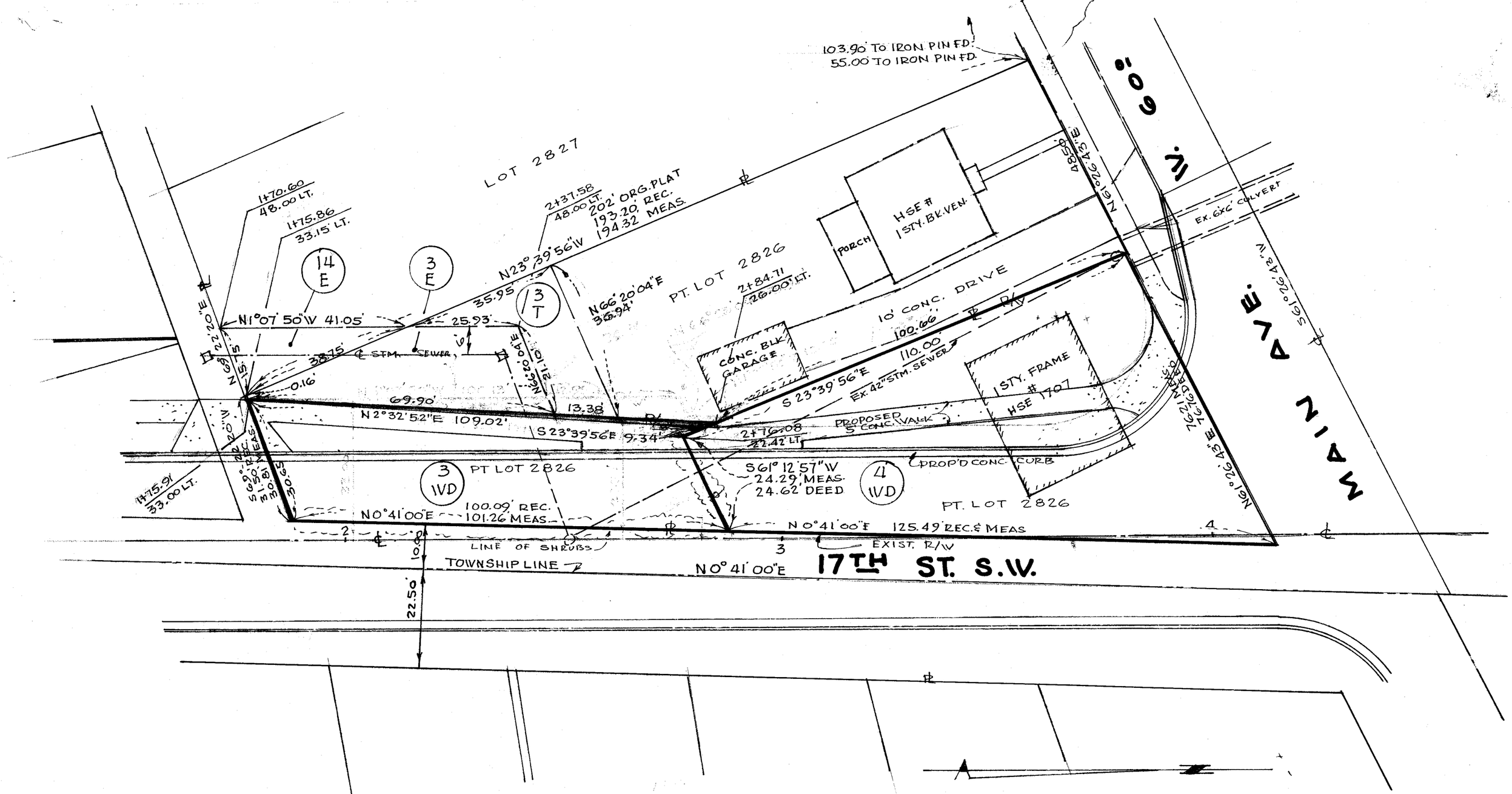

CITY OF MASSILLON, OHIO

**17TH ST. N.W. & S.W.**

LOTS 4999 & 5000

SCALE 1"=40' MAY 1978

ENGINEERING DEPT., R.F. WAGONER, CITY ENGINEER




| | | | | |
|---|---|---|---|---|
| 3 WD, | PT. LOT NO. 2826, | 2689 □', | 0.061 AC.; | 7133 □', 0.163 AC. RESIDUAL. |
| 4 WD, | PT LOT NO. 2826 | 5503 □' | 0.126 AC., | TOTAL TAKE |
| 3 T | PT LOT NO. 2826 | 526 □' | 0.012 Ac | TEMP. EASEM'T, GRAD'G, STM. |
| 14 E | LOT NO 2827 | 304 □' | 0.006 AC | " " " " |
| 3 E | PT. LOT NO. 2826 | 859 □' | 0.019 Ac. | EAS'M'T FOR STM. SEWER |

CITY OF MASSILLON, OHIO

# PARCEL MAP - 17TH ST. S.W. - N.W.

LOTS 2826 & 2827

SCALE 1" = 20' MARCH, 1978

ENGINEERING DEPT. ROB'T F. WAGONER, REG. ENGINEER

REVISIONS: 9/7/78 3 WD, 3E & 3T

CITY OF MASSILLON, OHIO

# 17TH STREET S.W. & N.W.

# STREET IMPROVEMENT

# ( SECOND PHASE )

FROM STA. 8+09.00 NORTHERLY TO STA. 24+74.74

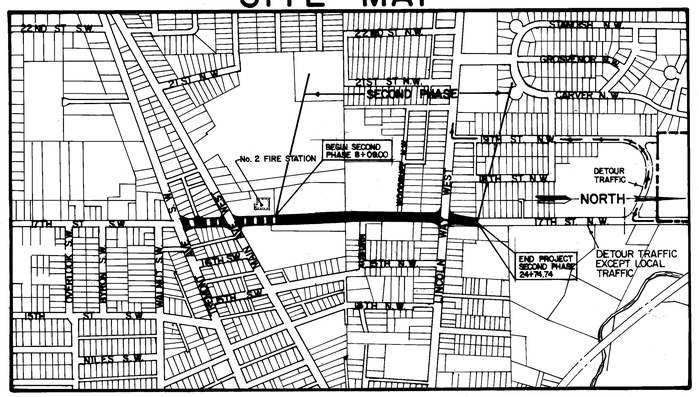
CONVENTIONAL SIGNS

| | NEW | EXIST |
|---|---|---|
| MANHOLES | | |
| EDGE PROPOSED PAV'T | | |
| ℄ SURVEY | | |
| UNDER GROUND CABLE | C | C |
| QTR SECTION LINE | | |
| EXISTING RIGHT-OF-WAY | | |
| PROPOSED RIGHT-OF-WAY | R/W | |
| SECTION LINE | | |
| CORPORATION LINE | | |
| FENCE LINE | X | X |
| GUARD RAIL (EXISTING) | | |
| GUARD RAIL (PROPOSED) | | |
| PROPERTY LINE | PL | |
| POWER POLES | | |
| TELEPHONE POLES | | |
| TREES OR STUMPS (EXISTING) | | |
| TREES OR STUMPS (TO BE REMOVED) | | |
| EXISTING UNDERGROUND UTILITIES | | |
| GAS VALVE | G | |
| WATER VALVE | W | |
| FIRE HYDRANT | Hyd | |
| RAILROAD | | |
| TOWNSHIP LINE | | |
| POLES | | |
| SIGNS | | |
| LIGHT POLES | | |
| WATER LINE | | |
| GAS LINE | | |
| SANITARY SEWER | | |
| STORM SEWER | | |
| TEMPORARY EASEMENT | T | |
| SLOPE EASEMENT | SL | |
| WORK AGREEMENT | WA | |
| SEWER EASEMENT | S | |

(SECOND PHASE)
INDEX OF SHEETS


TITLE SHEET ..... 1
SCHEMATIC ..... 2
TYPICAL SECTIONS ..... 3
GENERAL NOTES ..... 3
GENERAL SUMMARY, CALCULATIONS ..... 4
SUMMARY OF ADDITIONAL RIGHT-OF-WAY ..... 5
PLAN & PROFILE ..... 6-10 & 13,14
CROSS SECTION ..... 15,25
INTERSECTION DETAILS ..... 11,12
RIGHT-OF-WAY ..... 26,28A


SITE MAP




0 600 1200 1800
SCALE IN FEET

MAYOR ..... MARK ROSS
SAFETY SERVICE DIR. ... BLASE SPARMA
CITY ENGINEER ..... ROBERT WAGONER

BOARD OF STARK COUNTY COMMISSIONERS

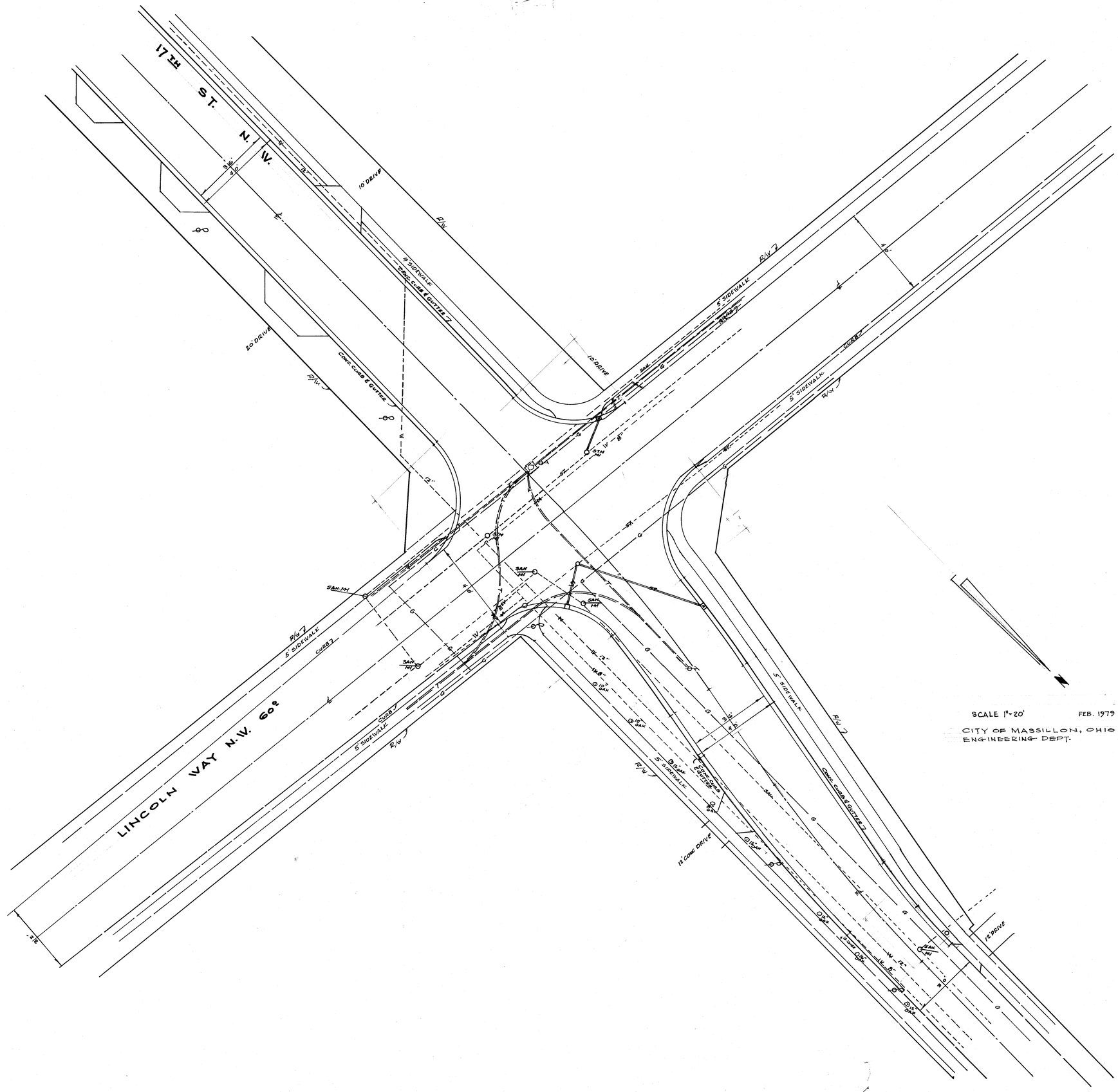
NORMAN W. SPONSELLER, PRES.
ROBERT C. SCHIRACK
JERRY PATRICK
WILLIAM KEEN, ADMIN. ASST.

PREPARED BY RON MCPHERSON
MASSILLON CITY ENGINEERING DEPARTMENT

CITY OF MASSILLON STANDARD DRAWINGS
FILE NO. M-578 – ACC. NO. 2367
FILE NO. M-581 – ACC. NO. 2370

BUREAU OF ROADWAY DESIGN OHIO DEPT. OF TRANSPORTATION
DRAWING BP-12-(USE ZEROX COPIES)

FILE NO P-306 ACC. NO 2821


17TH ST. N.W.
LINCOLN WAY N.W. 60'
10' DRIVE
20' DRIVE
12' DRIVE
12' CONC DRIVE
CONC. CURB & GUTTER
5' SIDEWALK
CURB
R/W
SAN MH
SCALE 1"=20'
FEB. 1979
CITY OF MASSILLON, OHIO
ENGINEERING DEPT.

P-306

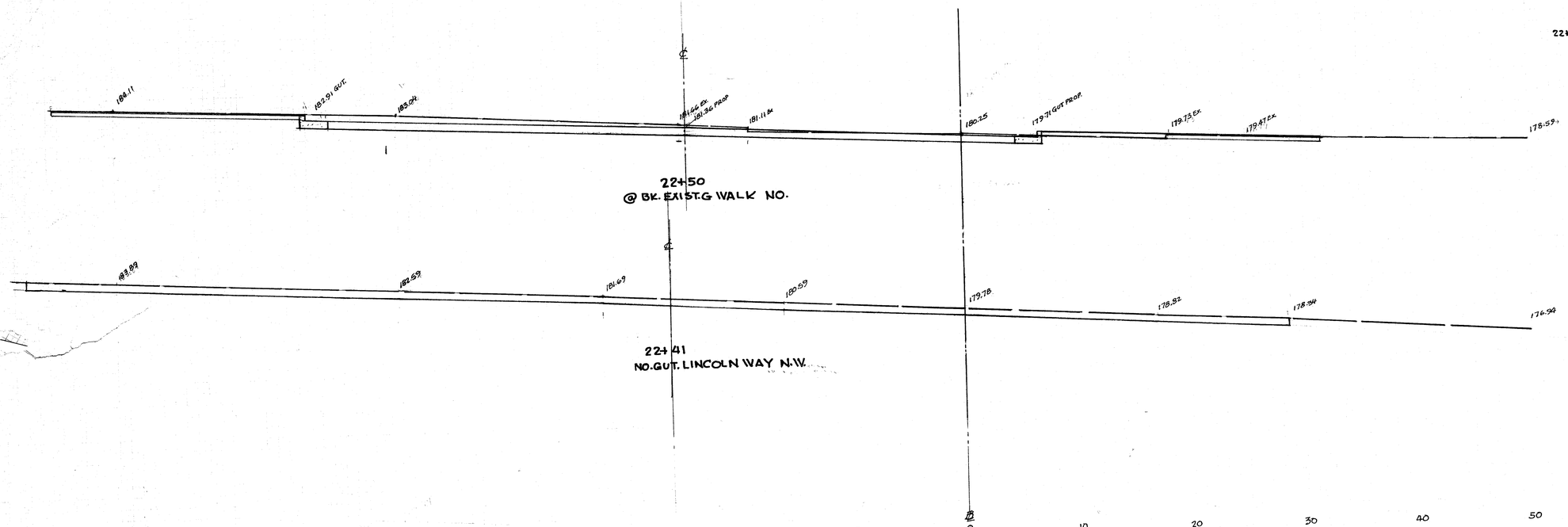
STA. 22+41 TO STA. 22+50

24/28

WEST

EAST

| | AREA SQ. FT. | VOL. CU. YDS |
|---|---|---|
| 22+70 = | 312 | |
| | | 144 |
| 180 | 77 | |
| 175 | | |
| | | 19 |
| 180 | 37 | |
| 175 | | |

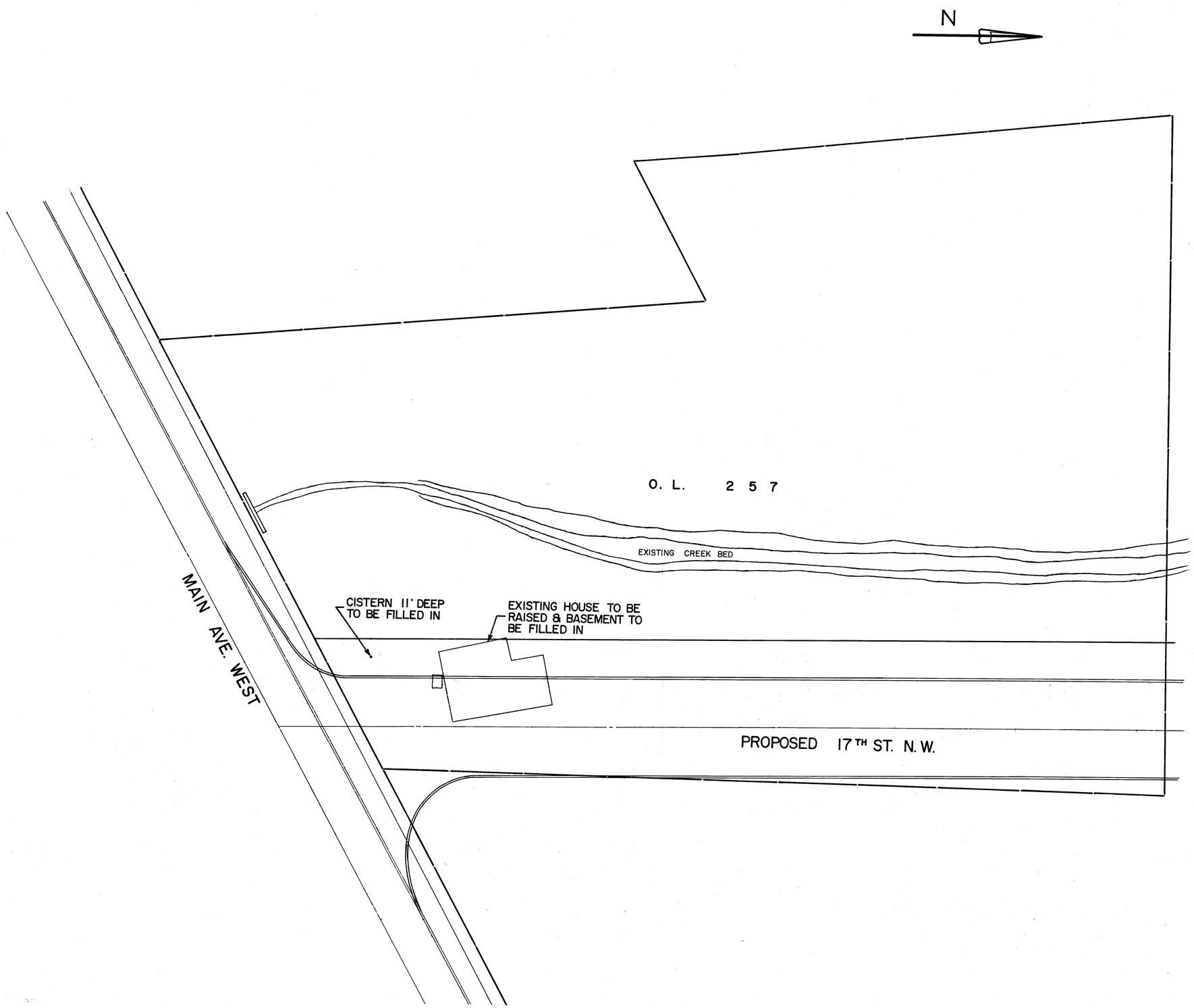



TOTAL 163 C.Y.

X SECT 22+41 TO 22+50

FILE NO. P-306 ACC. NO.- 2844

ORIGINAL SURVEY
NOT ENTERED
NOT ENTERED
NOT ENTERED
NOT ENTERED




CITY OF MASSILLON, OHIO

NO. 2 FIRESTATION

RAISING HOUSE & FILLING CISTERN

DR. BY TERRY L. RIDGLEY | DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENG. ROBERT WAGONER

17th Sts W 50'
N 0° 41' 00" E
N 0° 34' 40" E 628.79'
N 12° 00' 08" W 675.90'
S 0° 41' 00" W
264.00
S 9° 13' 44" E
287.45
S 6° 13' 41" E 893.50' (893.22' CALC'D)
739.42'
S 6° 03' 27" W
179.65
S 5° 22' 27" E
148.77
N 85° 20' 41" W
174.40
S 85° 24' 09" W 258.67
S 85° 16' 19" W 252.40
N 85° 37' 25" E 280.51'
N 89° 37' 00" E 330.00'
S 89° 37' 00" E
48.47'
S 0° 26' 30" W
50.68'
S 0° 28' 50" W
N 86° 19' 40" W
245.00'
N 85° 36' 20" E
240.55'
N 57° 24'
EDGE ASPH.
324.91'
260.21'
N 0° 52' 40" E
N 85° 36' 48" W 177.59'
N 85° 50' 30" E
N 85° 16' 53" W
170.59
N 85° 36' 20" E
170.18'
N 85° 28' 41" W
170.28'
N 85° 28' 41" W
170.28'
PT. O.L. 121
PT. O.L. 121
PT. O.L. 121
PT. O.L. 121
PT. O.L. 121
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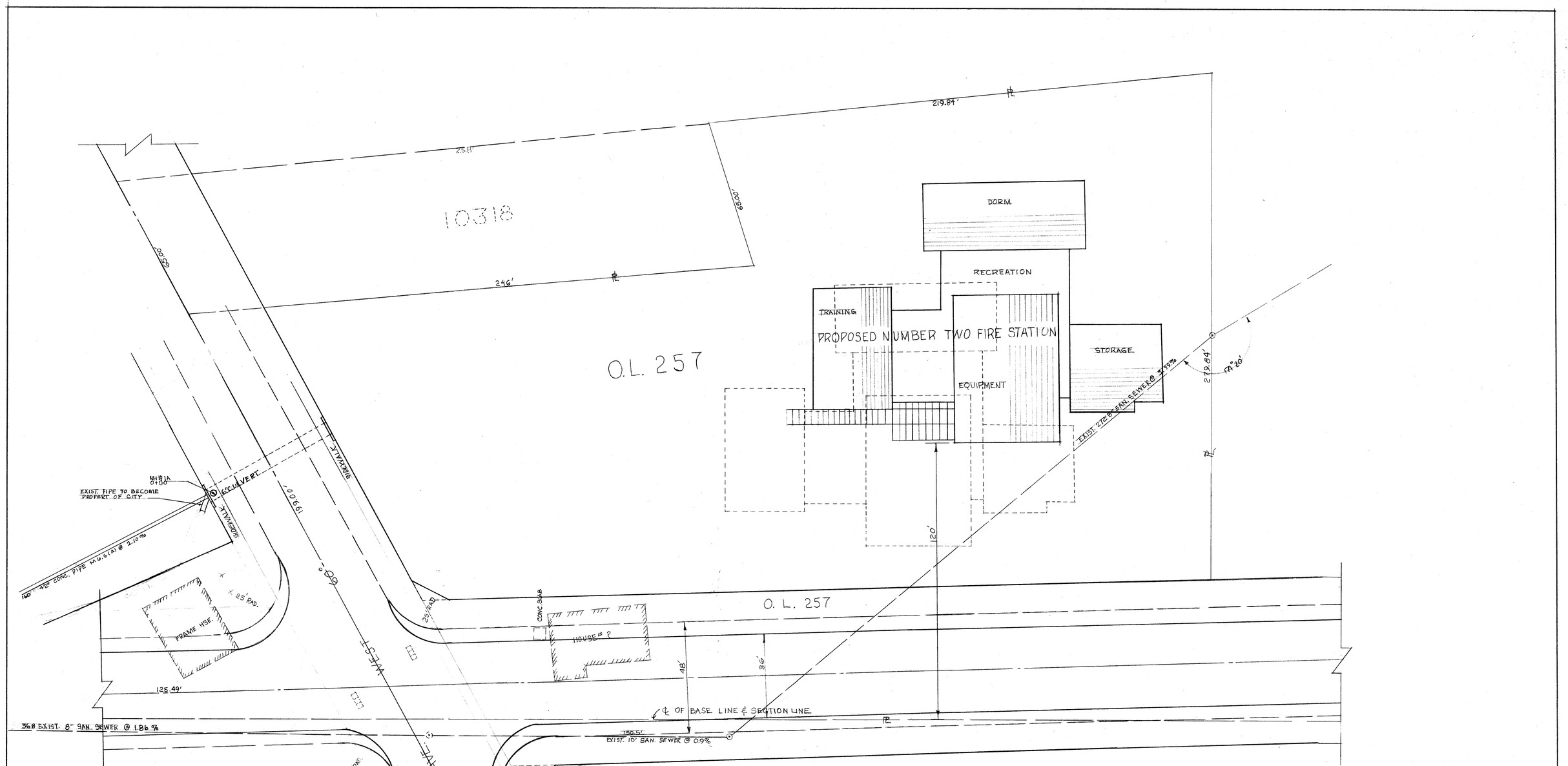
O.L. 7
O.L. 6
O.L. 5
O.L. 4
O.L. 3
O.L. 2
O.L. 1
Twp. Line
N 0° 41' 00" E
253

P-306




SUMMARY OF RIGHT-OF-WAY

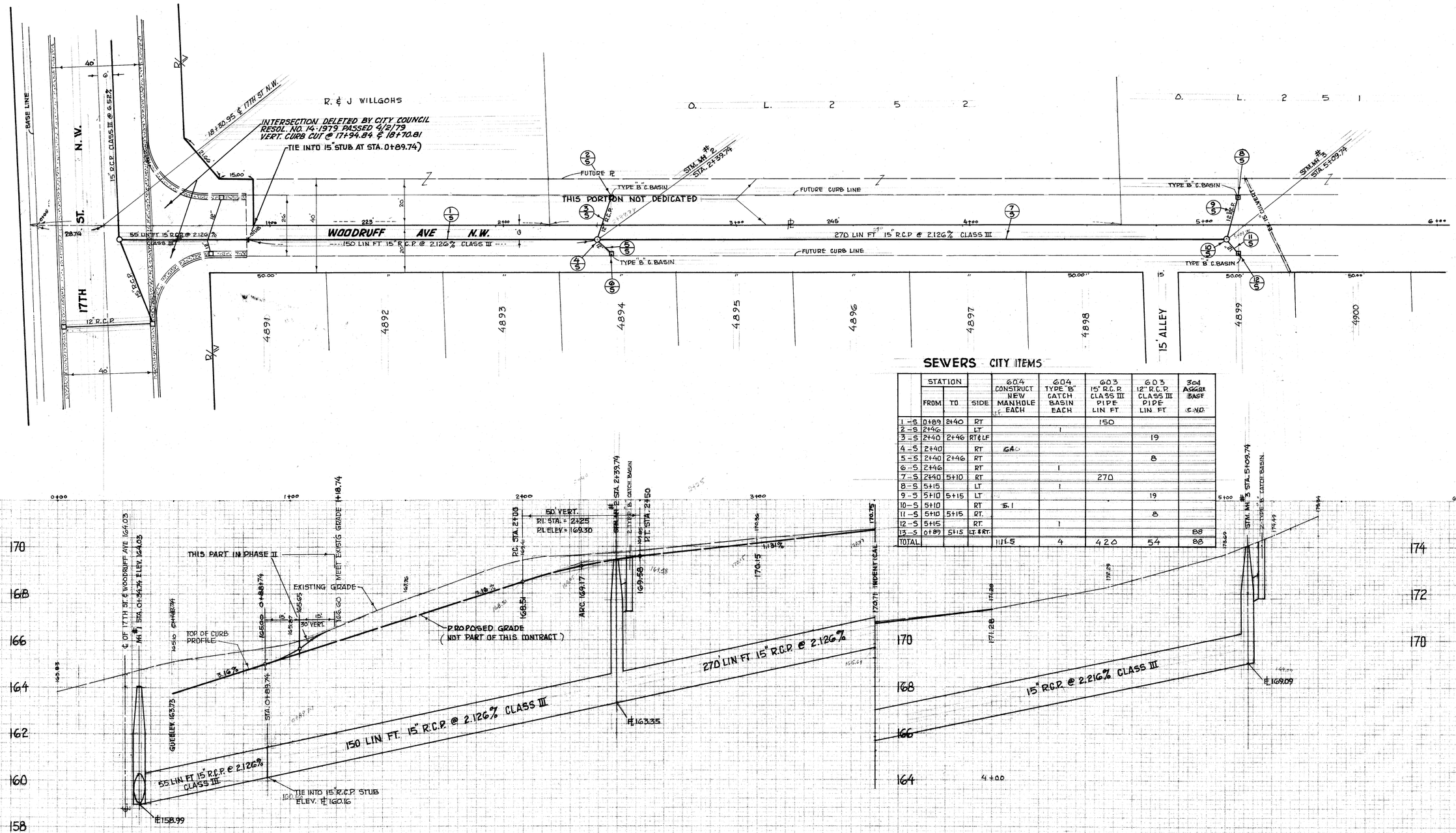
| PARCEL O.L. 257 ONLY | 17TH ST. TAKE IN SQ. FT. | APPRAISED VALUE | FIRE STATION TAKE IN SQ. FT. | APPRAISED VALUE |
|---|---|---|---|---|
| IMPROVEMENTS & STRUCTURE | — | $5,950.00 | — | — |
| LAND * | 17,075.5 | $2,561.33 | 72,658.5 | $10,885.28 |
| TOTALS | 17,075.5 | $8,511.33 | 72,658.5 | $10,885.28 |

# RIGHT-OF-WAY PLAN 17TH ST. N.W.

O.L. 257 AMOUNT OF TAKE FOR 17TH & FIRE STATION NO. 2

* VALUED AT $.15/SQ FT

| | |
|---|---|
| CITY OF MASSILLON, OHIO - | |
| DR BY Ben McPherson | DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION |
| CITY ENGINEER, ROBERT WAGONER | |
| SCALE | DATE |
| FILE NO. P-306 | ACC. NO. |




## SEWERS CITY ITEMS

| | STATION FROM | STATION TO | SIDE | 604 CONSTRUCT NEW MANHOLE EACH | 604 TYPE "B" CATCH BASIN EACH | 603 15" R.C.P. CLASS III PIPE LIN FT | 603 12" R.C.P. CLASS III PIPE LIN FT | 304 AGGR. BASE (C.Y.) |
|---|---|---|---|---|---|---|---|---|
| 1-S | 0+89 | 2+40 | RT | | | 150 | | |
| 2-S | 2+46 | | LT | | 1 | | | |
| 3-S | 2+40 | 2+46 | RT & LF | | | | 19 | |
| 4-S | 2+40 | | RT | 640 | | | | |
| 5-S | 2+40 | 2+46 | RT | | | | 8 | |
| 6-S | 2+46 | | RT | | 1 | | | |
| 7-S | 2+40 | 5+10 | RT | | | 270 | | |
| 8-S | 5+15 | | LT | | 1 | | | |
| 9-S | 5+10 | 5+15 | LT | | | | 19 | |
| 10-S | 5+10 | | RT | 5.1 | | | | |
| 11-S | 5+10 | 5+15 | RT. | | | | 8 | |
| 12-S | 5+15 | | RT. | | 1 | | | |
| 13-S | 0+89 | 5+15 | LT. & RT. | | | | | 88 |
| TOTAL | | | | 1116.5 | 4 | 420 | 54 | 88 |

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| CHECKED | | |

CITY OF MASSILLON, OHIO

**WOODRUFF AVE STREET IMPROVEMENT**
**STORM SEWER**

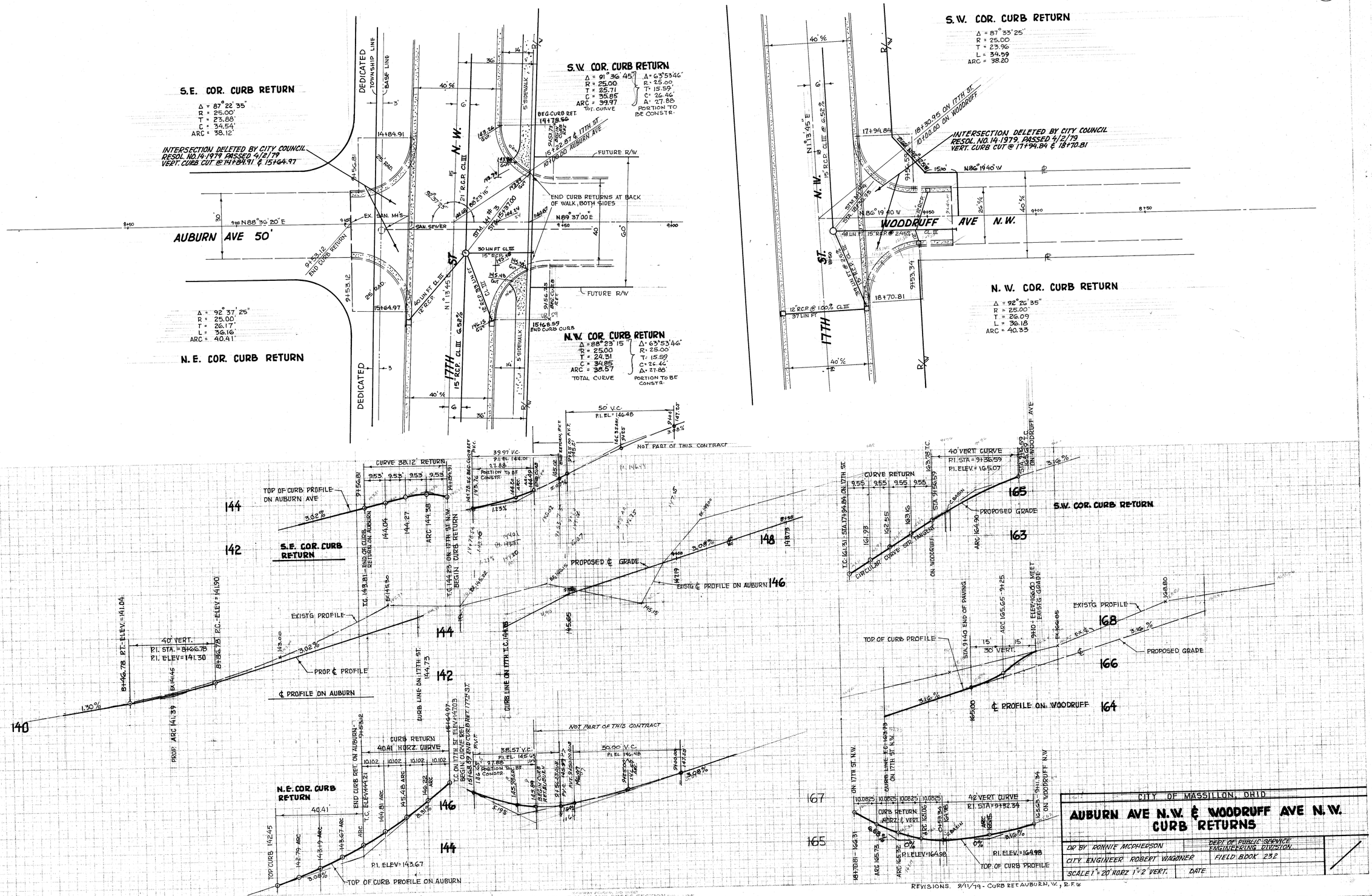
DR. BY RONNIE MCPHERSON — DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

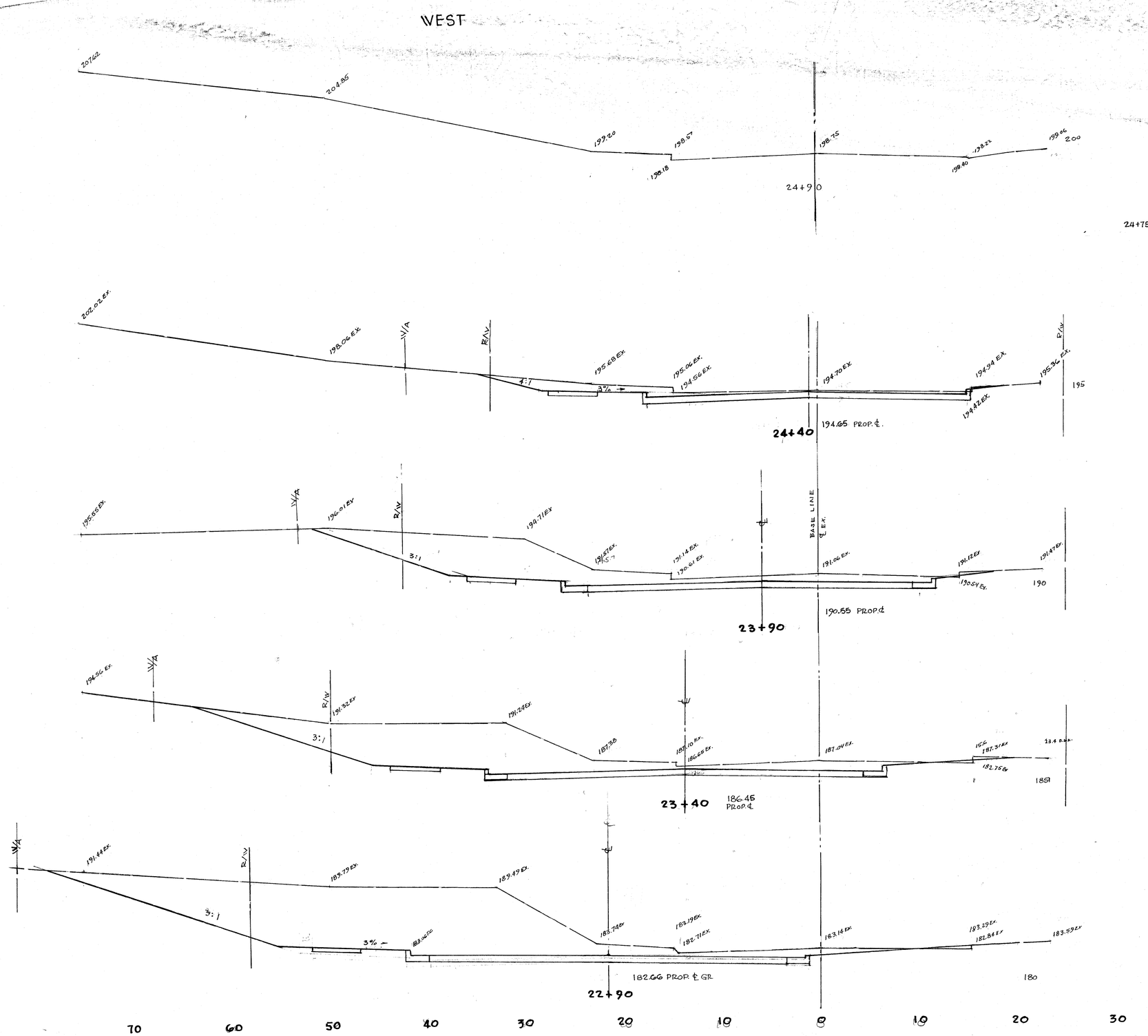
CITY ENGINEER ROBERT WAGONER — FIELD BOOK 232 P. 50

SCALE 1" = 20' HORZ. 1" = 2' VERT. — DATE

PLATE 4 SINGLE PLAN AND CROSS SECTION-FULL LINE

FILE NO. P-306 ACC. NO. 2833

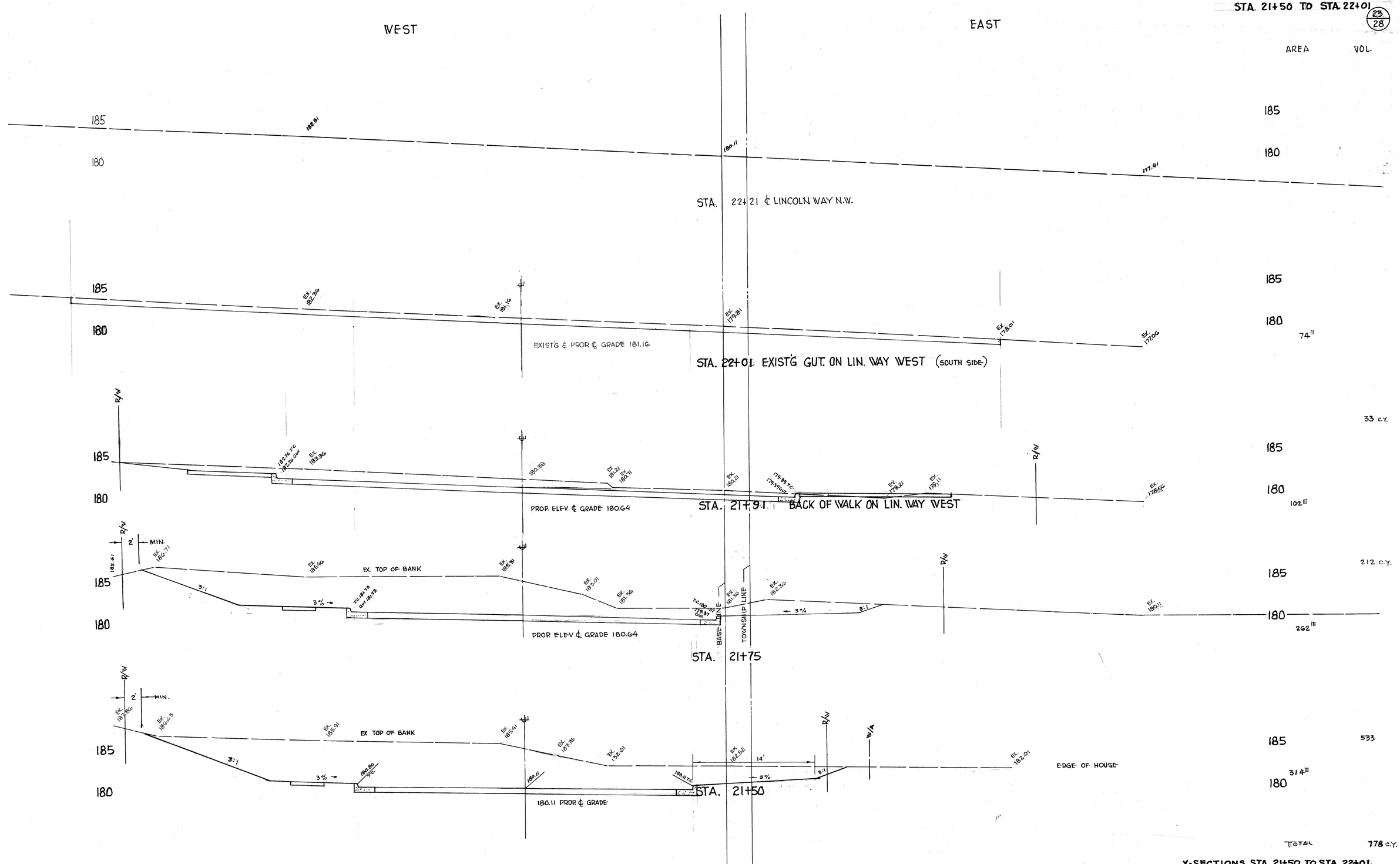

S.E. COR. CURB RETURN
Δ = 87° 22' 35"
R = 25.00'
T = 23.88'
L = 34.54'
ARC = 38.12'
INTERSECTION DELETED BY CITY COUNCIL RESOL. NO. 14-1979 PASSED 4/2/79 VERT. CURB CUT @ 14+84.91 & 15+64.97
N.E. COR. CURB RETURN
Δ = 92° 37' 25"
R = 25.00'
T = 26.17'
L = 36.16'
ARC = 40.41'
S.W. COR. CURB RETURN
Δ = 91° 36' 45"
R = 25.00
T = 25.71
C = 35.85
ARC = 39.97
TOT. CURVE
Δ' = 63°53'46"
R' = 25.00
T' = 15.59
C' = 26.46'
Δ' = 27.88
PORTION TO BE CONSTR.
N.W. COR. CURB RETURN
Δ = 88° 23' 15"
R = 25.00
T = 24.31
C = 34.85
ARC = 38.57
TOTAL CURVE
Δ' = 63°53'46"
R' = 25.00
T' = 15.59
C' = 26.46'
Δ' = 27.88'
PORTION TO BE CONSTR.
AUBURN AVE 50'
N88°36'20"E
N89°37'00"E
END CURB RETURNS AT BACK OF WALK, BOTH SIDES
FUTURE R/W
17TH ST. N.W.
DEDICATED
TOWNSHIP LINE
BASE LINE
S.W. COR. CURB RETURN
Δ = 87° 33' 25"
R = 25.00
T = 23.96
L = 34.59
ARC = 38.20
INTERSECTION DELETED BY CITY COUNCIL RESOL. NO. 14-1979, PASSED 4/2/79 VERT. CURB CUT @ 17+94.84 & 18+70.81
WOODRUFF AVE N.W.
N.W. COR. CURB RETURN
Δ = 92° 26' 35"
R = 25.00'
T = 26.09
L = 36.18
ARC = 40.33
NOT PART OF THIS CONTRACT
CURVE 38.12' RETURN
TOP OF CURB PROFILE ON AUBURN AVE
S.E. COR. CURB RETURN
EXISTG. PROFILE
PROP. ℄ PROFILE
℄ PROFILE ON AUBURN
PROPOSED ℄ GRADE
EXISTG ℄ PROFILE ON AUBURN
CURB RETURN 40.41' HORZ. CURVE
N.E. COR. CURB RETURN
TOP OF CURB PROFILE ON AUBURN
CURVE RETURN
S.W. COR. CURB RETURN
PROPOSED GRADE
℄ PROFILE ON WOODRUFF
TOP OF CURB PROFILE
CURB RETURN HORZ. & VERT.
42' VERT. CURVE
CITY OF MASSILLON, OHIO
AUBURN AVE N.W. & WOODRUFF AVE N.W.
CURB RETURNS
DR. BY RONNIE MCPHERSON
CITY ENGINEER ROBERT WAGONER
DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
FIELD BOOK 232
SCALE 1" = 20' HORZ. 1" = 2' VERT.
DATE
REVISIONS. 9/11/79 - CURB RET. AUBURN N.W., R.F.W.
PLATE 4-SINGLE PLAN AND CROSS SECTION FOR LINE
FILE NO. P-306
ACC. NO. 2831




| | AREA | VOL. |
|---|---|---|
| 24+75 END EXCAVATION | 23 | |
| | | 45 |
| | 47 | |
| | | 163 |
| | 129 | |
| | | 281 |
| | 178 | |
| | | 454 |
| | 312 | |
| | | 231 |
| 22+70 * | 312 | |
| TOTAL | | 1174 C.Y. |

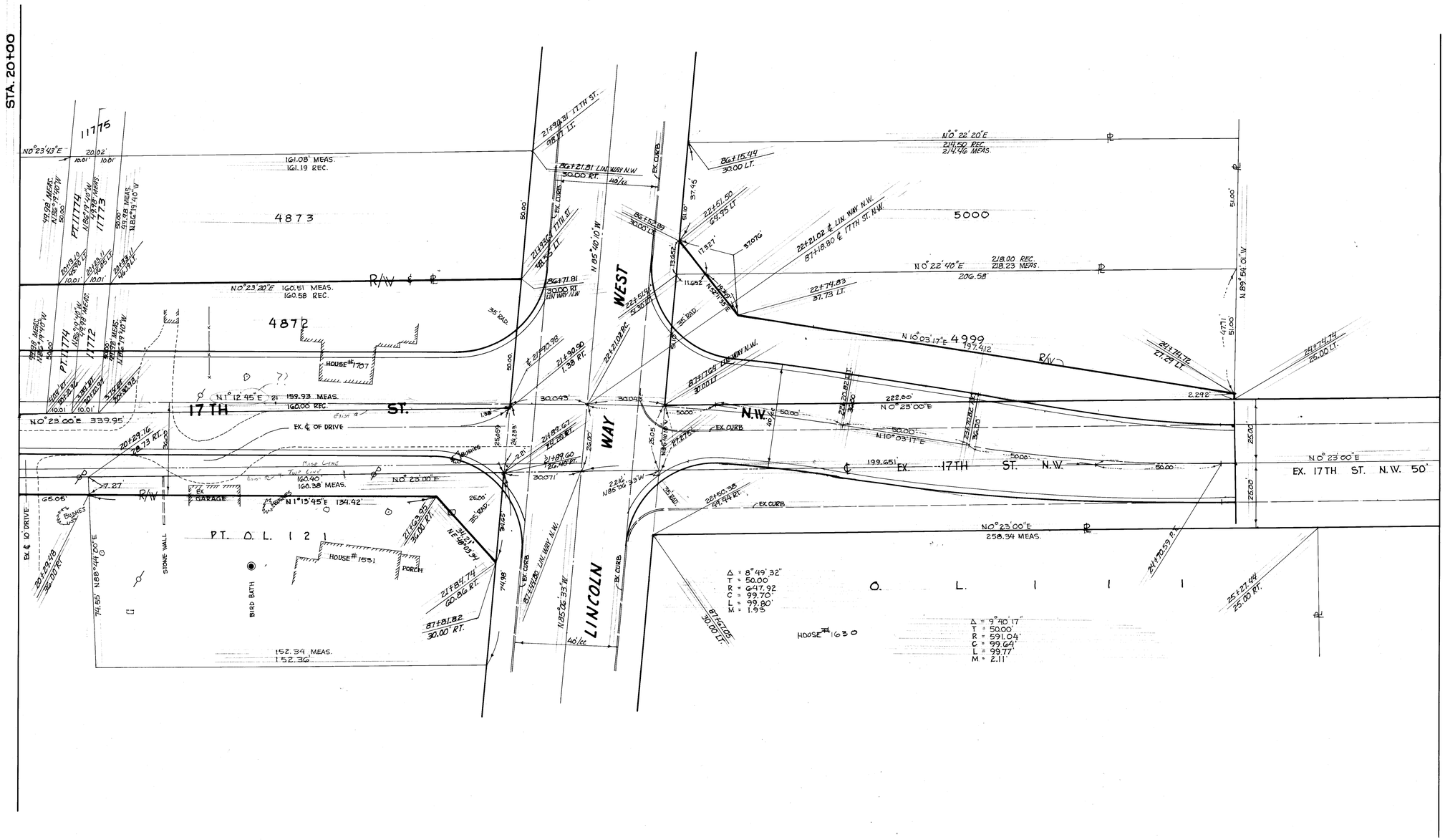
X-SECTIONS 22+90 TO 24+90

FILE NO. P-306 ACC. NO. 2845




X-SECTIONS STA. 21+50 TO STA. 22+01

FILE NO. P-306 ACC. NO. 2843




| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
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| CHECKED BY | | |

CITY OF MASSILLON, OHIO

# 17TH ST. S.W. & N.W. PROPERTY MAP

DR BY RONNIE MCPHERSON

DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

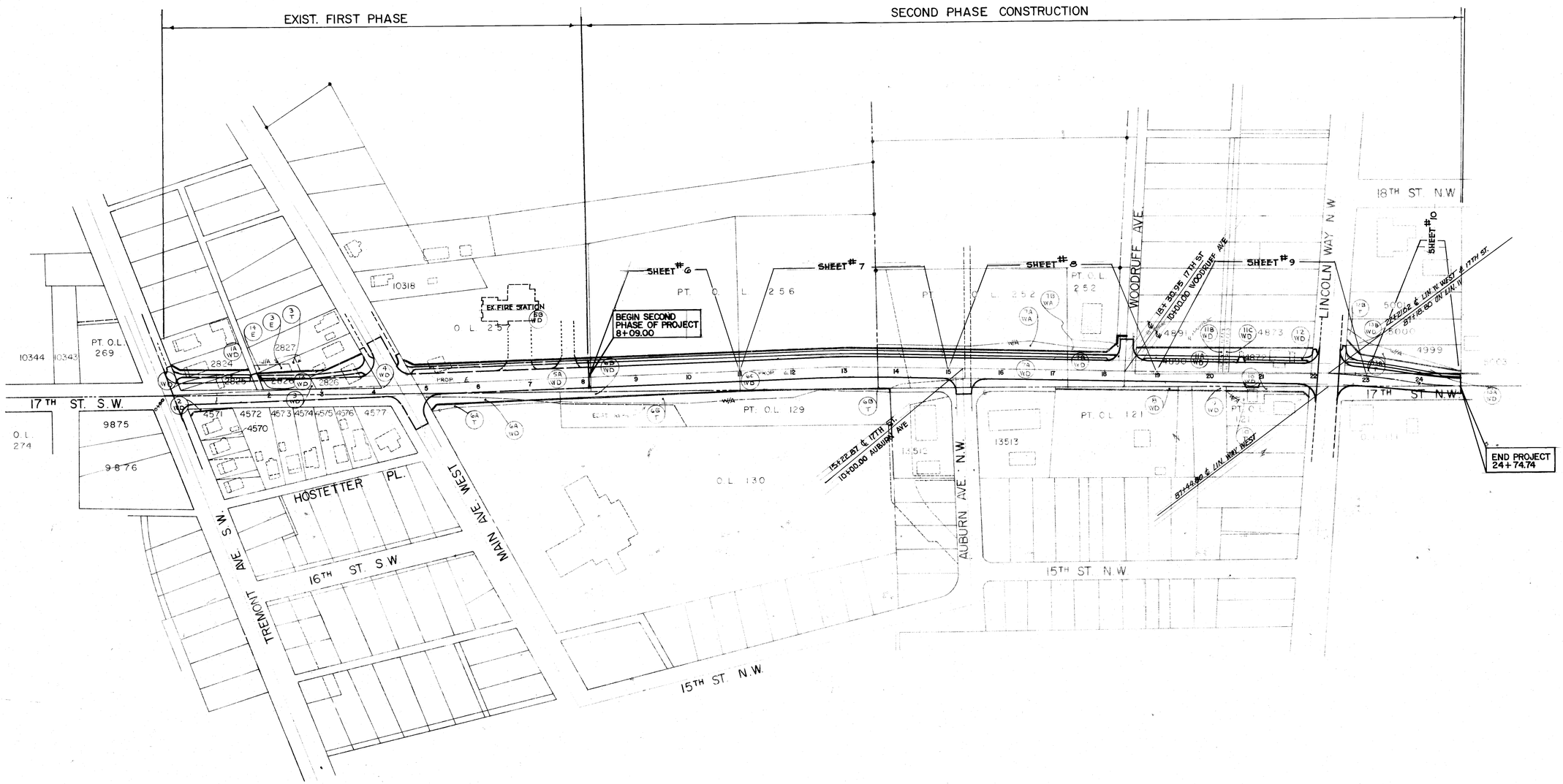
CITY ENGINEER - ROBERT WAGONER

SCALE 1" = 20' HORZ.

DATE

FILE NO. P-306 ACC. NO. 2849

# SCHEMATIC LAYOUT




| DRAWN BY | DATE | REVISION DESCRIPTION |
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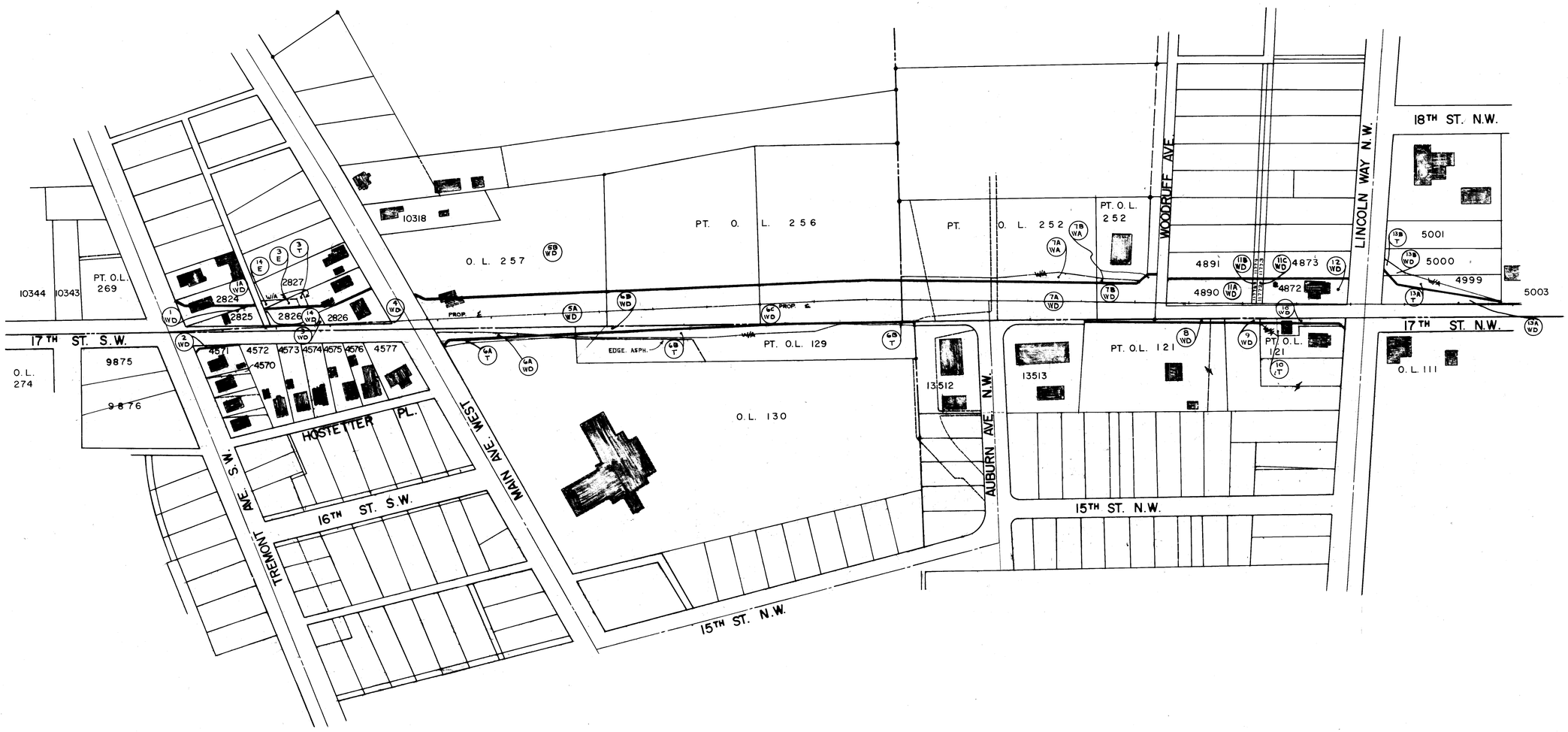
| CHECKED BY | | |

**SCHEMATIC LAYOUT PLAN**
(SECOND PHASE)
17TH ST. N.W. —

FILE NO. P-306 ACC. NO. 2822

# SCHEMATIC LAYOUT




| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

**PROPERTY MAP**

**RIGHT OF WAY PLAN**

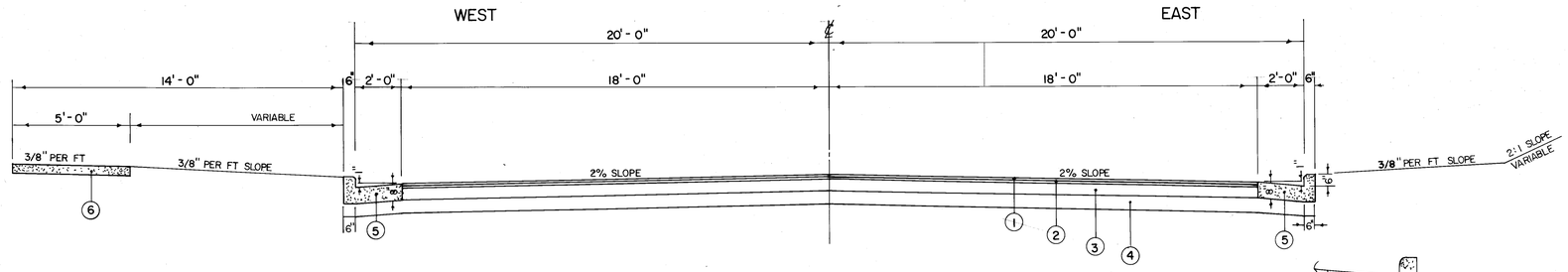
DR. BY TERRY L. RIDGLEY

DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENGINEER ROBERT WAGONER

SCALE 1" = 100'

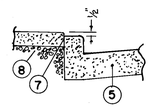
# TYPICAL SECTIONS



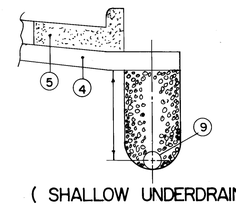

STA. 8+09 TO STA. 24+74.74

17TH ST. S.W & N.W.

SCALE 1" = 3'




SIDEWALK AT INTERSECTIONS




( SHALLOW UNDERDRAIN )

ALL UNDERDRAINS SHALL BE APPROXIMATELY 30" BELOW SUBBASE TO TOP OF PIPE (IN ALL LOW AREAS SEE PLAN)

1. 404 - 1 1/4" ASPHALT CONCRETE
2. 402 - 1 1/4" ASPHALT CONCRETE
3. 301 - 5 1/2" BITUMINOUS AGGREGATE BASE PLACE IN TWO 2 3/4" COURSES
4. * 310 - 6" SUBBASE, GRADING B, AS PER PLAN
5. MASSILLON COMBINATION CURB & GUTTER
6. 609 4" CONCRETE WALK
7. JOINT MATERIAL
8. 310 - SUBGRADE COMPACTED
9. 605 6" SHALLOW UNDERDRAIN

NOTES: * THESE ITEMS MAY BE NON-PERFORMED IN CUT AREAS WHERE THE EXISTING SUBGRADE CONSISTS OF STABLE MATERIAL AS DIRECTED BY ENGINEER

## LIGHTS AND SIGNS ADJACENT ROAD INTERSECTION

THE CONTRACTOR SHALL IN ADDITION TO THE GENERAL REQUIREMENTS OF ITEM 614 ON THIS PROJECT PERFORM THE FOLLOWING: PROVIDE, ERECT AND MAINTAIN STANDARD 48" X 30" SIZE ROAD CLOSED SIGNS, SIGN SUPPORT AND LIGHT AT THE FOLLOWING LOCATIONS DURING PERIOD IN WHICH THE 17TH ST. N. W. IS CLOSED TO TRAFFIC:

AT THE INTERSECTION OF 17TH ST. N.W. SOUTH OF LINCOLN WAY N. W.
AT THE INTERSECTION OF 17TH ST. N. W. NORTH OF LINCOLN WAY N. W.
THE REMOVAL OF CHIP & SEAL AND ASPHALT ON 17TH ST. N. W. IS A SEPARATE PAY ITEM, BUT IS TO BE INCLUDED INCLUDED IN THE EXCAVATION ITEM.
AT THE INTERSECTION OF 17TH ST. & CHERRY RD N.W. ROAD CLOSING TO THRU TRAFFIC LOCAL TRAFFIC ONLY, ROAD OPEN TO CLEANER HANGER. —— AT THE INTERSECTION OF 17TH ST. N.W. & PARK ROAD, WEST OF 17TH ST. DIRECTING TRAFFIC TO 19TH ST. N.W.. AT STATION 24+75, END OF PROJECT BARRICADE, LOCAL TRAFFIC MUST BE PERMITTED TO HOUSES NORTH OF LINCOLN WAY ON 17TH ST. N.W.. SIGN ON 17TH ST. N.W. OPPOSITE CLEANER HANGER, DIRECTING TRAFFIC TO CHERRY RD. N.W..

## REFERENCE

ALL REFERENCES TO ITEM AND SECTION NUMBERS APPEARING IN THESE PLANS SHALL BE CONSIDERED TO READ ITEM AND SECTION NUMBERS OF THE STATE OF OHIO: DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS IN FORCE ON JANUARY 1, 1977. CITY OF MASSILLON STANDARD CURB AND GUTTER, CATCH BASINS AND MANHOLES SHALL BE USED.

## NOTIFICATION

THE CONTRACTOR SHALL NOTIFY POLICE AND FIRE AUTHORITIES PRIOR TO CONSTRUCTION AS TO CLOSING OF 17TH & LINCOLN WAY WEST.

## UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF MASSILLON DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS APPROXIMATE DEPTH OF UTILITIES ARE:

(OHIO WATER SERVICE CO. VARIES 4 TO 5 FT COVER)
(EAST OHIO GAS CO. VARIES 2 1/2 TO 3 FT. COVER)
(OHIO BELL TELEPHONE VARIES 1 1/2 TO 3 FT COVER)

## LIST OF AFFECTED UTILITIES

THE EAST OHIO GAS CO.
1717 EAST NINTH ST.
CLEVELAND, OHIO 44114

OHIO BELL TELEPHONE CO.
832 MCKINLEY AVE, N.W.
ROOM 01
CANTON, OHIO 44703

OHIO EDISON COMPANY
48 1ST STREET N.E.
MASSILLON, OHIO 44646

OHIO WATER SERVICE COMPANY
123 THIRD ST. S.E.
MASSILLON, OHIO 44646

MASSILLON CABLE T.V.
814 CABLE CT. N.W.
MASSILLON, OHIO 44646

## DRIVES

THE LOCATION OF DRIVES, AS SHOWN, MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER.

## ESTIMATED QUATITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE OR GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIALS SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.

# GENERAL NOTES

## CATCH BASINS

ALL CATCH BASINS AND MANHOLE CAST THAT ARE REMOVED ARE TO REMAIN THE PROPERTY OF THE CITY OF MASSILLON.

## CENTERLINE CONTROL

THE CITY OF MASSILLON WILL FURNISH CERTERLINE CONTROL AND CONSTRUCTION STAKES, STAKES WILL BE SET ONE TIME ONLY, STAKES THAT ARE DISTURBED OR DESTROYED WILL BE REPLACED BY THE CONTRACTOR, AT HIS OWN EXPENSE.

## SEEDING AND SODDING

QUANTITIES FOR SEEDING AND SODDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN WORK LIMITS AS SHOWN ON THE CROSS-SECTIONS. AREAS IN FRONT OF RESIDENCES. BETWEEN CURBS AND SIDEWALKS AND OTHER AREAS SHALL BE SODDED AS DIRECTED BY THE ENGINEER. ALL AREAS OUTSIDE OF THE WORK LIMITS WHERE THE VEGETABLE GROWTH HAS BEEN DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE SEEDED OR SODDED; AS REQUIRED, IN ACCORDANCE WITH THE SPECIFICATIONS BY THE CONTRACTOR AT NO EXTRA COST TO THE CITY.

## REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN THE VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES, BID FOR THE RESPECTIVE EXCAVATION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.

## CONNECTION TO EXISTING PIPE

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

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

## OLD FOUNDATIONS

IF OLD FOUNDATIONS, CISTERNS OR WELLS ARE ENCOUNTERED DURING EXCAVATION OR GRUBBING, THE COST TO REMOVE SUCH SHALL BE INCLUDED IN THE COST OF CLEANING AND GRUBBING. IF ANY EXISTING FILLS ARE ENCOUNTERED. THEY SHALL BE RECOMPACTED AND INCLUDED IN THE EMBANKMENT ITEM.

## COOPERATION

THE CONTRACTOR SHALL COOPERATE WITH THE CONTRACTOR PRESENTLY BUILDING THE NUMBER TWO FIRE STATION AS TO ACCESS TO BUILDING SITE, AND JOINING IMPROVEMENTS OF THE DIFFERENT PROJECTS.

## SCHEDULE

THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TENTATIVE SCHEDULE AS TO HOW HE PLANS TO PROCEED WITH THE WORK REQUIRED UNDER THIS CONTRACT INCLUDING SEQUENCE AND TENTITIVE DATE AS TO COMPLETION. IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR CONCENTRATE HIS ENDEAVORS TO FINISH THE PORTION OF THE ROAD TO THE FIRE STATION AS SOON AS POSSIBLE.

## 608 CURB RAMP

AS PER BP-12 TYPE 2 TO BE USED AS DIRECTED BY THE ENGINEER, ESTIMATED QUANTITY OF 6 EACH.

## HOUSE CONNECTIONS

EXISTING ROOF DRAIN AND YARD DRAIN DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASINS OR THROUGH CURB TO THE GUTTER FOOTER DRAIN MUST BE TAKEN TO A STORM SEWER MANHOLE PIPE OR CATCH BASINS.

## LOCATION

THE LOCATION, TYPE, SIZE & GRADE OF REQUIRED REPLACEMENT WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

( ITEM 603 4" CONDUIT TYPE F, 711.29 (PLASTIC) 40 LIN. FT. )
( ITEM 603 6" CONDUIT TYPE F, 706.08 40 LIN FT. )
( ITEM 603 6" CONDUIT TYPE F, 706.08 20 LIN FT. )

## COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED OR SODDED SHALL HAVE COMMERCIAL FERTILIZER (18-46-0) MIX APPLIED AT THE RATE OF TWENTY POUNDS PER 1000 SQUARE FEET.

## PRIVATE ENTRANCE AND PEDESTRIAN TRAFFIC

THE CONTRACTORS ATTENTION IS DIRECTED TO SECTION 104.04 AND SECTION 614.02 OF SPECIFICATION REGARDING VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS FOR THE RESIDENCE ADJACENT TO THE PROPOSED IMPROVEMENT. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ALONG AT LEAST ONE SIDE OF 17TH ST. N.W. NORTH OF LINCOLN WAY N.W. USING THE EXISTING, PROPOSED OR TEMPORARY WALKS AS MAY BE NECESSARY. IF TEMPORARY WALKS ARE REQUIRED THEY SHALL BE OF 402 ASPHALTIC CONCRETE. WHEN THE NEW ROADWAYS ARE OPENED TO VEHICULAR TRAFFIC, ALL THE PEDESTRIAN TRAFFIC FACILITIES ADJACENT TO ALL ROADWAY IMPROVEMENT SHALL ALSO BE OPENED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES AND LIGHTS AS MAY BE NECESSARY TO ACCOMODATE TO A REASONABLE MANNER THE PEDESTRIANS TRAFFIC WHICH IS TO BE MAINTAINED.
PAYMENT FOR CONSTRUCTION MAINTENANCE OR SUBSEQUENT REMOVAL OF THESE TEMPORARY WALKS SHALL BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR TEMPORARY SIDEWALK.
ITEM 402 TEMPORARY SIDEWALK 11/2" 1.0 CU. YDS.

## DUST CONTROL

THE FOLLOWING QUANTITIES OF CALCIUM CHLORIDE AND WATER ARE PROVIDED FOR DUST CONTROL FOR USE AS DIRECTED BY THE ENGINEER:
ITEM 616 WATER 20 M GALS
ITEM 616 CALCIUM CHLORIDE 2 TON

## REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVE WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING. (UNDER 12")
THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.
SIZES 12" & OVER NO. TREES 10 NO. STUMPS NONE

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

## PAVEMENT REMOVAL OUTSIDE NORMAL CONSTRUCTION LIMITS

THE EXISTING PAVEMENT, AS INDICATED ON THE PLANS, SHALL BE REMOVED. THE OLD ROADWAY GRADED PER PLAN AND DISTURBED AREAS SLOPED TO DRAIN AND LEFT IN A NEAT CONDITION READY FOR SODDING, PAYMENT FOR THE ABOVE WORK, EXCEPT SODDING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203, SEE SHEETS, _____

## ITEM 605 SHALLOW UNDERDRAINS

UNDERDRAINS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY OF 2000 LIN. FT. OF UNDERDRAIN HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THESE ITEMS.

## DETOUR

A DETOUR SHALL BE PROVIDED BY THE CONTRACTOR FOR 17TH ST. N.W. NORTH OF LINCOLN WAY N.W. AS SHOWN OF SHEET NUMBER 1. THE CONTRACTORS SCHEDULE FOR CLOSING MUST BE KEPT TO A MINIMUM. ALL WORK SHALL BE COMPLETED OUTSIDE EXISTING ROADWAY THAT IS PRACTICAL BEFORE ROADWAY IS CLOSED. SIDEWALK ON THE EAST SIDE SHALL BE MAINTAIN AT ALL TIMES, TEMPORARY ACCESS TO DRIVEWAY, HOUSE NO. 1630 LINCOLN WAY N.W. SHALL BE PROVIDED. THE FOLLOWING ESTIMATED QUANITIES HAVE BEEN INCLUDED ON THE GENERAL SUMMARY FOR THE WORK NOTED.
.2 TON OF ITEM 616 CALCIUM CLORDIDE
.4 M GAL WATER

## REVIEW OF DRAINAGE FACILITIES

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

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

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PEPTINENT 603 CONDUIT ITEMS OF THIS CONTRACT.

## MAINTAINING TRAFFIC:

LINCOLN WAY N.W. TRAFFIC SHALL BE MAINTAINED EAST & WEST ON LINCOLN WAY N.W. AT ALL TIMES, 17TH ST. N.W. SOUTH OF LINCOLN WAY N.W. ACCESS TO GARAGE ON EAST SIDE OF 17TH ST. N.W. HOUSE NUMBER 1531 LINCOLN WAY N.W., SHALL BE PROVIDED. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED ON THE GENERAL SUMMARY FOR THE WORK NOTED
.2 TON OF ITEM 616 CALCIUM CLORDIDE
.4 M. GAL. WATER
20 C.Y. ITEM 304
2 C.Y. ITEM 404

## WEEKLY AND MONTHLY REPORTS

THE EEO OFFICER SHALL RECIEVE BOTH THE WEEKLY REPORTS (WH-347) AND THE MONTHLY REPORTS (STANDARD FORM 257) ON THIS PARTICULAR PROJECT.

## INTERPRETATION OF NOTES AND DETAILS

WHEN CONFLICT ARISES OVER THE INTERPRETATION OF NOTES AND DETAILS. THE NOTES AND DETAILS IN THE DRAWINGS TAKE PREFERENCE OVER THE GENERAL PROVISIONS AND SPECIFICATIONS THAT APPEAR IN THE CONTRACT.

## OVERTIME

THE CONTRACTOR WILL PAY THE CITY INSPECTORS OVERTIME WAGES FOR ALL WORK THAT IS DONE ON SATURDAY, SUNDAY OR LEGAL HOLIDAYS. THE OVERTIME WAGES WILL BE PAID DIRECTLY TO THE CITY OF MASSILLON.

## COOPERATION WITH UTILITY COMPANIES

THE CONTRACTS IS ADVISED THAT THROUGHOUT THESE PLANS THE UTILITY COMPANIES HAVE BEEN CALLED UPON TO PERFORM NECESSARY ADJUSTMENT, RELOCATIONS AND INSTALLATION OF PUBLIC OR PRIVATE UTILITY FIXTURES, PIPE LINES AND OTHER APPURTENANCES WITHIN OR ADJACENT TO THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES IN ACCORDANCE WITH 105.06 TO ARRANGE A MUTUALLY ACCEPTABLE WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THE PROJECT.

# GENERAL SUMMARY

| ITEM | SHEET NUMBER 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 4 | 3 | | 100% CITY TOTAL QUANT. | ITEM | GRAND TOTAL QUANT. | UNIT | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 350 | 278 | | | | | | | | 202 | 628 | LIN. FT | CURB REMOVAL |
| | | | | | 875 | 1007 | | | | | | | | 202 | 1882 | SQ. FT | WALK REMOVAL |
| | | | | | | 4 | | | | | | | | 202 | 4 | EA. | CATCH BASINS REMOVAL |
| | | | | | | 39 | | | | | | | | 202 | 39 | LIN. FT. | PIPE REMOVAL |
| | | | | | | | | LUMP | | | | | | 202 | LUMP | LUMP | RIPRAP REMOVED |
| | | | | | | | | LUMP | | | | | | 202 | LUMP | LUMP | OLD STONE FOUNDATION REMOVED |
| | | | | | 4 | 109 | | | | | | | | 202 | 113 | SQ.YD | PAVEMENT REMOVED ( COMBINE ) |
| | | | | | | | | | | | | | | 201 | LUMP SUM | | GRUBBING |
| | 3 | | | | 2 | | 2 | 3 | | | | | | 201 | 10 | EA. | TREES 12" & OVER REMOVED |
| | | | | | | | | | | 19,251 | | | | 203 | 19,251 | C.Y. | EXCAVATION (NOT INCLUDING EMBANKMENT ) |
| | | | | | | | | | | 477 | | | | 203 | 477 | C.Y. | EMBANKMENT ( WITH IN ROAD CONSTR. ) |
| | | | | | | | | | | 19,084 | | | | 203 | 19,084 | C.Y. | EMBANKMENT SPOIL PER PLAN |
| | | | | | | | | | | 1015 | | | | 301 | 1015 | C.Y. | BITUMINOUS AGGREGATE BASE, 702.01, AC20 OR 702.09 |
| | | | | | | | | | | 923 | | | | 310 | 923 | C.Y. | SUBBASE - GRADING "B" |
| | | 88 | | | | | | | | | | | 88 | 304 | 88 | C.Y. | AGGREGATE BASE |
| | | | | | | | | | | 231 | | | | 402 | 231 | C.Y. | ASPHALT CONCRETE AC 20 |
| | | | | | | | | | | 231 | | | | 404 | 231 | C.Y. | ASPHALT CONCRETE AC 20 |
| | | | | | | | | | | 2657 | | | | 408 | 2657 | GAL. | BITUMINOUS PRIME COAT 702.09 RT2 OR RT3, 702.02 MC30 OR MC70, 702.03 PRIMER 20 |
| | | | | | | 3.5 | | | | | | | | 411 | 3.5 | C.Y. | STABILIZED CRUSHED AGGREGATE ( LIMESTONE ) |
| | | | | | | | | | | | | | | 404 | 5.1 | C.Y. | ASPHALT CONCRETE – TEMPORARY SIDEWALKS 1 1/2" |
| | | | | | | | | | | | 2 | | | 404 | 2 | C.Y. | ASPHALT CONCRETE – TEMPORARY REPAIRS |
| | | | | | | 12 | | | | | | | | 404/305 | 12 | SQ.YD. | 2" ASPHALT CONCRETE / 10" CONC. BASE, PAVEMENT REPLACEMENT (LINCOLN W.) |
| | | | | | 13 | 70.6 | | 31 | | | | | | 452 | 54.6 | SQ.YD. | 6" PL. PORTLAND CEMENT CONC. PAVEMENT ( DRIVE APPROACHS ) |
| | 108 | | | | | | | | | | | | | 601 | 108 | SQ.YD. | SLOPE AND CHANNEL PROTECTION ( RIPRAP) |
| | | | | | | | | 3.22 | | | | | | 602 | 3.22 | CU.YD. | CONCRETE HALF HEADWALLS (W-9) |
| | | 54 | | | | 97 | 135 | | 45 | | | | 54 | 603 | 331 | LIN. FT. | 12" R.C.P. CL. III |
| | | 420 | | | | | 419 | 319 | | | | | 420 | 603 | 1158 | LIN. FT. | 15" R.C.P. CL. III |
| | | | | | | | 37 | 115 | | | | | | 603 | 152 | LIN. FT. | 21" R.C.P. CL. III |
| | | | | | | | | 120 | | | | | | 603 | 120 | LIN. FT. | 48" X 76" ELL.P. R.C.P. CL. III |
| | | | | | 24 | 36 | | | | | | | | 603 | 60 | LIN. FT. | 6" V.S. SAN. LATERAL, INCL. BENDS & PLUGS |
| | | | | | 1 | 3 | | | | | | | | 604 | 4 | EA. | ADJUST MANHOLES ( CITY STD. ) |
| | | | | | | | | 2 | | | | | | 604 | 2 | EA. | RECONSTRUCT MANHOLES TO GRADE |
| | | 11.5 | | | | | 10.2 | 4 | 5 | | | | 11.5 | 604 | 30.7 | VER.FT. | STM. MANHOLES (CITY STD. ) |
| | | | | | | 4 | 4 | | 2 | | | | | 604 | 10 | EA. | CITY TYPE "A" CATCH BASINS |
| | | 4 | | | | | | | | | | | 4 | 604 | 4 | EA. | CITY TYPE "B" CATCH BASINS |
| | | | | | | | | 3.22 | | | | | | 602 | 3.22 | CU.YD. | CONCRETE HALF HEADWALLS (W-9) |
| | | | | | | | | | | | 2000 | | | 605 | 2000 | LIN. FT. | SHALLOW UNDERDRAIN (AS DIRECTED BY ENGINEER |
| | | | | | | | | | 184 | | | | | 606 | 184 | LIN. FT. | SPECIAL WIRE DOUBLE ROPE RAIL ( PER DETAIL) |
| | | | | | 875 | 761 | | | | | | | | 608 | 1636 | SQ. FT. | 4" CONCRETE WALK (MUN. ROAD FUND) |
| | | | | | | 1124 | 171.0 | 1847 | 1505 | | | | 6186 | 608 | 6186 | SQ. FT. | 4" CONCRETE WALK (CITY ) |
| | | | | | | | | | | 3300 | | | | 609 | 3300 | LIN. FT. | COMBINED CURB & GUTTER, MASSILLON STD. |
| | | | | | | | | | | | | | | 608 | 4 | EA. | CURB RAMP DRAWING BP-12 |
| | | | | | | | | | | | 60 | | | 603 | 60 | LIN. FT. | 6" CONDUIT, TYPE F, 706.08 |
| | | | | | | | | | | | 40 | | | 603 | 40 | LIN. FT. | 4" CONDUIT, TYPE F, 711.29 ( PLASTIC ) |
| | | | | | | | | | | | LUMP | | | 614 | LUMP SUM | | TRAFFIC CONTROL |
| | | | | | | | | | | | 2.2 | | | 616 | 2.2 | TON | CALCIUM CHLORIDE, TRAFFIC & DUST CONTROL |
| | | | | | | | | | | | 20.4 | | | 616 | 20.4 | M | WATER, TRAFFIC & DUST CONTROL |
| | | | | | | | | | | 350 | | | | 653 | 350 | CU.YD | TOP SOIL * |
| | | | | | | | | | | 4051 | | | | 659 | 4051 | LBS. | COMMERICAL FERTILZER |
| | | | | | | | | | | 2753 | | | | 660 | 2753 | SQ.YD. | SOD |
| | | | 23 | | | | | | | | | | | 609 | 23 | LIN. FT. | TYPE 6 CURBING, TRANSITION SECTION 6" CURB FACE TO EXISTING |
| | | | | | | | | 2 | | | | | | 604 | 2 | EA | CITY TYPE "A" CATCH BASINS DOUBLE |
| | | | | | | | | | | 6318 | | | | 659 | 6318 | SQ.YDS | SEEDING AND MULCHING, ROADWAY |
| | | | | | | | | | | 13,434 | | | | 659 | 13,434 | SQ.YDS | SEEDING AND MULCHING, OFFSITE |
| | | | | | | | | | | | | | | 105.05 | | LUMP | PERFORMANCE AND PAYMENT BONDS |
| | | | | | | | | | | | | | | 623 | | LUMP | CONSTRUCTION LAYOUT STAKES ** |

653 TOP SOIL: *
THIS QUANITY HAS BEEN ESTIMATED TO BE USED AS REQUIRED. THIS ITEM SHALL BE USED AT ENGINEERS DIRECTION.

623. CONSTRUCTION LAYOUT STAKES: **
THIS ITEM IS BEING BID AS AN ALTERNATE. THE CITY WILL DECIDE THE USE OF THIS ITEM BEFORE CONTRACT AWARD.

# CALCULATIONS

ITEM 402 ASPHALT CONCRETE:
STA. 8+09 TO STA. 22+01

$\frac{1392 \times 36 \times .104166}{27} = 193.333$ C.Y.

AUBURN AVE. INTERSECTION, WEST OF 17TH ST.

@ CURB RET.: $\left(\frac{15.12 \times 24.245}{2} + \frac{11.86 \times 24.245}{2}\right) - \pi 27^2 \times \frac{63.8961°}{360°} = 104.11$

TOT.: $\left(\frac{15.12 \times 48 + 36 + 2 \times 104.11}{27}\right) \times .104166 = 3.436$ C.Y.

LINCOLN WAY N.W.: INTERSECTION.

@ S.W. CURB RET.:
$\left(\frac{33.047 + 34.299}{2} \times 23.124\right) + \left(\frac{13.876}{2} \times 34.299\right) - \pi 37^2 \frac{67.9739°}{360°} = 204.549$

@ S.E. CURB RET.:
$\left(\frac{35.694 + 37.438}{2} \times 27.26\right) + \left(\frac{9.74}{2} \times 35.694\right) - \pi 37^2 \times \frac{74.7369°}{360°} = 277.751$

@ N.W. CURB RET.:
$\left(\frac{33.964 + 34.645}{2} \times 24.012\right) + \left(\frac{12.988}{2} \times 34.645\right) - \pi 37^2 \times \frac{63.4489°}{360°} = 218.903$

CORRECTION FOR CURVE: $\frac{0.86}{2} \times 33.964 = +13.584$

$232.487$

@ N.E. CURB RET.:
$\left(\frac{35.271 + 35.873}{2} \times 25.823\right) + \left(\frac{25.271}{2} \times 11.177\right) - \pi 37^2 \times \frac{72.3494°}{360°} = 251.368$

CORRECTION FOR CURVE: $\frac{1.15}{2} \times 35.87 = -20.448$

$230.920$

$\frac{204.549 + 277.751 + 232.487 + 230.920 \times .104166}{27} = 3.648$ C.Y.

STA. 22+41 TO STA. 23+42.75

$\frac{101.75 \times 36 \times .104166}{27} = 14.131$ C.Y.

23+42.75 - 24+27.52

$\left[\pi \times 589.042^2 \times \frac{8.5372°}{360°}\right] - \left(593.04 \times \frac{83.02}{2}\right) \times \frac{.104166}{27} = 11.161$ C.Y.

24+27.52 - 24+41.33
AVE. LENGTH X AVE. WIDTH

$\left(\frac{12.263 + 11.656}{2} \times \frac{29.804 + 28.131}{2}\right) \times \frac{.104166}{27} = 1.336$ C.Y.

24+41.33 - 24+24.74

$\left[(28.131 \times 34.18) + \left(273.079 \times \frac{34.18}{2}\right)\right] - \left(\pi \times 275.21^2 \frac{7.1344°}{360°}\right) \times \frac{.104166}{27} = 3.521$ C.Y.

$193.333 + 3.436 + 3.648 + 14.131 + 11.161 + 1.336 + 3.521 = 230.566$ C.Y.

TOTAL ITEM 402 = 231 CU.YD.

ITEM 404 ASPHALT CONCRETE

SAME AREA & THICKNESS AS ITEM 402, ∴ SAME VOL.
TOTAL ITEM 404 = 231 CU.YD.

ITEM 301 BITUMINOUS AGGREGATE BASE
SAME AREA AS ITEM 402, THICKNESS $\frac{4.25}{.96}$ = 4.400 factor for 5½"

230.566 × 4.40 = 1014.49 CU.YD.
TOTAL ITEM 301 = 1015 CU.YD.

ITEM 609 COMBINED CURB & GUTTER, MASS. STD.

SHT. 6 STA. 8+09 to 11+00 291 LIN. FT. × 2 = 582.00 LIN. FT.

SHT. 7
STA. 11+00 to 14+78.56 LT. = 378.56
CURB RET. LT. 27.88
STA. 11+00 to 15+00 RT. 400.00
806.44 SUB. TOT. 806.44 LIN. FT.

SHT. 8
CURB RET. LT. 27.88
STA. 15+68.59 to 19+00 LT. 331.61
STA. 19+00 to 19+00 RT. 400.00
759.29 SUB. TOT. 759.29

SHT. 9
STA. 19+00 to 21+68.92 LT. 268.92
CURB RET. LT. 53.08
" " LT. 53.98
STA. 22+74.48 to 23+00 $\frac{647.92}{647.92}$ = 27.50
403.28 SUB. TOT. 403.28

STA. 19+00 to 21+62.64 RT 262.44
CURB RET. RT. 87.21
CURB RET. RT. 55.80
STA. 22+77.89 to 23+00
CORR. FOR CURVE, 22.41 × $\frac{647.92}{647.92}$ = 21.72
397.37 SUB. TOT. 397.37

SHT. 10
STA. 23+00 to 23+20.82 LT.
CORR. FOR CURVE, 20.82 × $\frac{647.92}{647.92}$ = 21.46
STA. 23+20.82 to 23+70.82 LT. 50.00
STA. 23+70.82 on TANG. LT. 54.95
STA. 24+27.52 to 24+74.74 LT. CURVE 46.13
172.54 SUB. TOT. 172.54

STA. 23+00 to 23+20.82 RT.
CORR. FOR CURVE, 20.82 × $\frac{647.92}{647.92}$ = 20.18
STA. 23+20.82 to 23+42.75 RT. 21.93
STA. 23+42.75 to 24+41.33 CURVE, RT. 99.77
STA. 24+41.33 to 24+74.74 TANG. RT. 34.18
176.06 SUB. TOT. 176.06
TOTAL 3296.98

TOTAL ITEM 609 = 3300 LIN. FT.

ITEM 310 SUBBASE GRADING B, 6" THICK
SAME AREA AS ITEM 402, THICKNESS $\frac{5.0}{1.25}$ = 4.0 factor for 5"

230.566 × 4.0 = 922.264 CU. YDS.
TOTAL ITEM 310 = 923 CU. YDS.
(MAY BE NON-PERFORMED, SEE NOTE IS SHEET 3)

ITEM 408 BITUMENOUS PRIME COAT (702.09 RT2 OR RT3)
FROM ITEM 402, 1¼" THICK
factor is $\frac{36}{1.25}$ TO SQ.YDS = 28.800

230.566 C.Y. × 28.800 SQ.YD. = 6640.30 SQ.YDS

AT AN RATE OF 0.40 GAL/SQ.YD. APPLICATION
6640.3 × 0.40 = 2656.12 GAL.
TOTAL ITEM 408 = 2657 GAL.

ITEM 659 SEEDING AND MULCHING

| | | | |
|---|---|---|---|
| STA 8+00 to 11+00 LT., | 300 × 33 (AVE.) | = | 9,900 S.F. |
| " 8+10 to 11+00 RT., | 290 × 32' | " | 9280 " |
| " 11+00 to 12+50 LT. | 150 × 23' | " | 3450 " |
| " 12+50 to 15+00 LT., | 250 × 15 | " | 3750 " |
| " 11+00 to 12+50 RT. | 150 × 30 | " | 4500 " |
| " 12+50 to 15+00 RT. | 250 × 27 | " | 6750 " |
| " 15+00 to 17+00 LT. | 200 × 24 | " | 4800 " |
| " 15+00 to 19+00 RT. | 400 × 16' | " | 6400 " |
| " 19+00 to 20+20 RT. | 120 × 16' | " | 1920 " |
| " 22+40 to 24+75 LT. | 235 × 26' | " | 6110 " |
| | | | 56,860 SQ.FT. |

$\frac{56,860}{9}$ = 6,318 SQ. YDS.

TOTAL ITEM 659 = 6,318 SQ.YDS. RDWY.

AREA "A" $\frac{320 \times 120}{9}$ = 4267 S.Y.
AREA "B" $\frac{180 \times 150}{9}$ = 2500 "
AREA "C" $\frac{240 \times 250}{9}$ = 6667 "
13,434 SQ.YDS.

TOTAL ITEM 659 = 13,434 SQ.YDS., OFFSITE.

ITEM 660 SOD

| | | | |
|---|---|---|---|
| STA. 17+00 to 18+20 LT., | 120 × 24 | = | 2880 S.F. |
| " 18+40 to 19+00 LT. | 80 × 18 | " | 1440 " |
| " 19+00 to 22+00 LT. | 300 × 21 | " | 6300 " |
| " 20+20 to 22+00 RT. | 180 × 24 | " | 4320 " |
| " 22+40 to 24+75 RT. | 235 × 12 | " | 2820 " |
| AREA "B", STM CHANNEL | 117 × 60 | " | 7020 " |
| | | | 24,780 SQ.FT. |

$\frac{24,780}{9}$ = 2753 SQ.YDS.

TOTAL ITEM 660, = 2753 SQ.YDS.

ITEM 659 COMMERCIAL FERTILIZER
APPLIED AT RATE OF 20 LBS./1000 SQ.FT.
$\frac{56,860 + 13,434 \times 9 + 24,780}{1000} \times 20$ = 4050.92 LBS.

TOTAL ITEM 659 COMM. FERT. = 4051 LBS.

ITEM 203 EXCAVATION, AND EMBANKMENT

| SHEET | | CUT | | FILL |
|---|---|---|---|---|
| " | 16 | " | 4047 | " 0 |
| " | 17 | " | 5125 | " 0 |
| " | 18 | " | 893 | " 282 |
| " | 19 | " | 29 | " 159 |
| " | 20 | " | 1044 | " 25 |
| " | 21 | " | 1276 | " 0 |
| " | 22 | " | 1177 | " 11 |
| " | 23 | " | 2515 | " 0 |
| " | 24 | " | 778 | " 0 |
| " | 25 | " | 163 | " 0 |
| " | 14 | " | 1174 | " 0 |
| | | | 230 (CHANNEL) | — |
| | | | 19,251 CU.YD | 477 CU.YD. |

TOTAL ITEM 203, EXCAVATION 19,251 CU.YD.
" " " EMBANKMENT 477 CU.YD.

EMBANKMENT, SPOIL (WASTE AREA)

| | | |
|---|---|---|
| SHEET 14 | AREA "A" | 4486 C.Y. |
| | " "B" | 2925 " |
| | " "C" | 11,630 " |
| | | 19,084 CU.YD. |

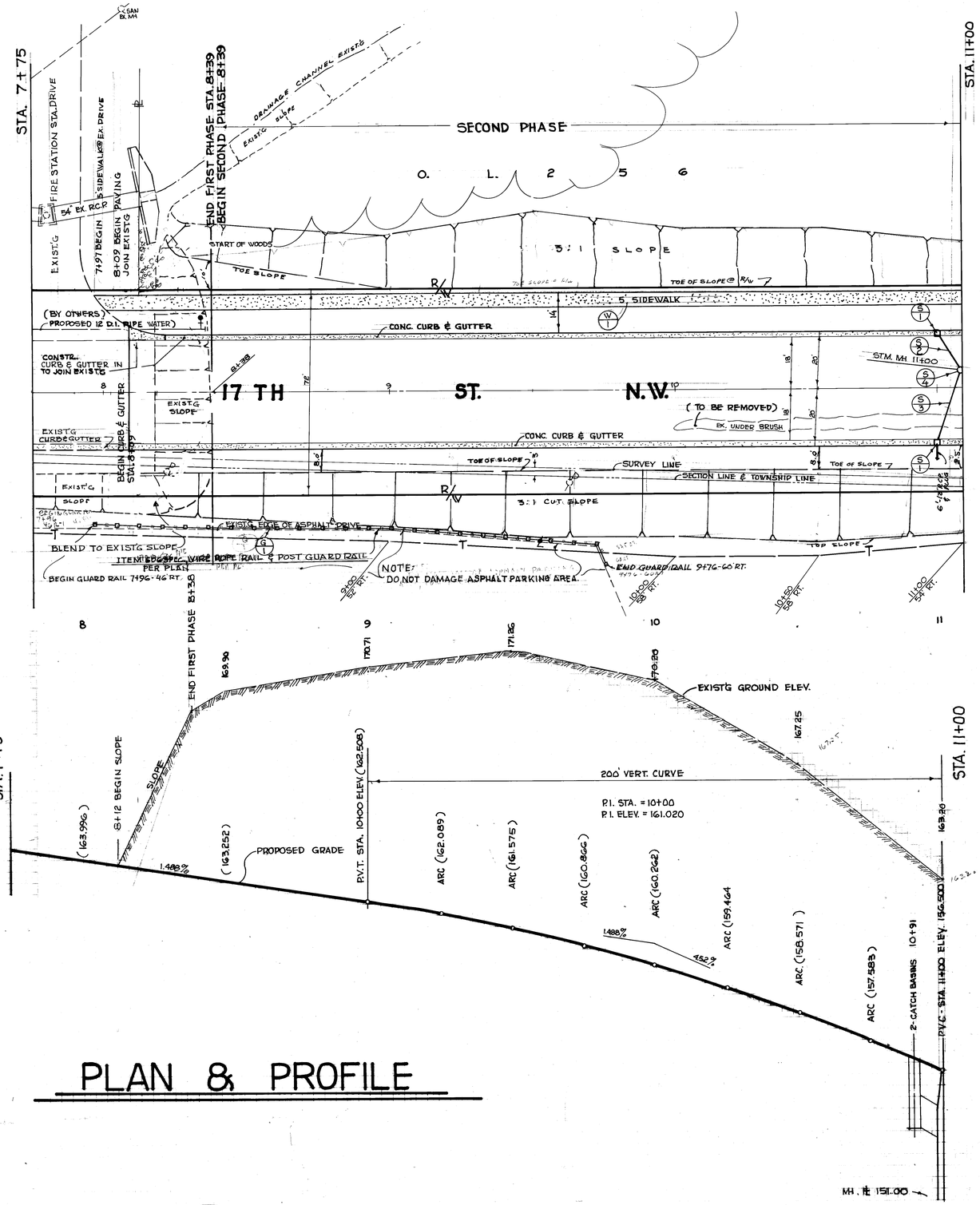
TOTAL ITEM 203 EMBANKMENT, SPOIL = 19,084 CU.YD.

ITEM 404 TEMPORARY WALK 1½"
SO. SIDE LINWAY N.W. 95 × 5 =
NO. " " " " 125 × 5 =
220 × 5 = 1100
$1100 \times \frac{1.5}{12} \div 27$ = 5.092 C.Y.

TOTAL ITEM 404, TEMP. WALKS 5.1 CU.YD.

# SUMMARY OF ADDITTIONAL RIGHT OF WAY REQUIRED

| AUDITORS PARCEL NO. | PARCEL NO | OWNER | DEED RECORD BOOK | DEED RECORD PAGE | DEED AREA | TOTAL P.R.O | TOTAL TAKE | P. R. O. IN TAKE | NET TAKE LAND | NET TAKE BLDG. | NET RESIDUE LEFT | NET RESIDUE RIGHT | SHEET NO. | REMARKS | FUNDS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 - WD | FRANCIS R. GRISE<br>FRANCIS R GRISE | 3825 | 850 | 7087 SF | 0 | 2824 SF | 0 | 2824 SF | RES. | 4247 SF | 0 | | LOT # 2824 6 RESIDUE TO THE DEPOSE OF LATER-1A-WD | |
| | 1A-WD | FRANCIS R. GRISE<br>FRANCIS R GRISE | 3825 | 850 | 2928 SF | 0 | 2928 SF | 0 | 2928 SF | GAR. | 0 | 0 | | LOT # 2825 TOTAL TAKE | MUN. RD. FD. |
| | 2 -WD | DAVID MICHAEL & LISA M. LIGGETT<br>DAVID MICHAEL & LISA M LIGGETT | 4007 | 171 | 3872 SF | 0 | 218 SF | 0 | 218 SF | - | 0 | 3654 | | REQUIRED FOR CURB RETURN LOT # 4571 | " |
| | 3 -WD | | | | 8922 SF | | | | | | | | | | |
| | 3 -T | | | | 8669 SF | 6019 SF | 19175 | 6019 | 13156 | RES. | 67515 | 0 | | PT. LOT # 2826 RESHAPEING YARD TO DRAIN | |
| | 3 -E | | | | | | | | | | | | | STORM SEWER EASEMENT | |
| | 4 -WD | JAMES R. DOUGLAS, ROLAND W. HEISSER, LOIS A. GULIFF, FAYE G. CLOSE<br>JAMES R DOUGLAS, ROLAND W HEISSER, LOIS A. GULIFF, FAYE G. CLOSE | 3662 | 380 | 5503 SF | 0 | 5503 SF | 0 | 5503 SF | - | 0 | 0 | | PT. LOT # 2826 TOTAL TAKE | |
| | 5A-WD | | | | | | | | | | | | | | |
| | 5B- WD | | | | | | | | | | | | | TO CITY OF MASSILLON FIRE STATION # 2 | |
| | 6A-WD | | | | | | | | 4489 SF | - | | | | | |
| | 6A- T | | | | | | | | 1336 SF | | | | | SLOPE | |
| | 6B-WD | | | | 44521 SF | 0 | 2312 SF | 0 | 2312 SF | - | 0 | 42209 | | | |
| | 6B- T | | | | | | | | 10053 SF | 0 | | | | SLOPES | |
| | 6C-WD | | | | 139318 SF | 0 | 3832 SF | 0 | 3832 SF | - | 135486 | 0 | | RESIDUE CITY OF MASSILLON FOR PARK | |
| | 7A-WD | | | | 81140 SF | 0 | 26341 SF | 0 | 26341 SF | - | 5479 | 0 | | | |
| | 7A- T | | | | | | | | | | | | | SLOPES | |
| | 7B-WD | ROBERT D. & JANE L. WILLGOHS<br>ROBERT & JANE WILLGOHS | 3797 | 949 | 25116 SF | 0 | 7912 SF | 0 | 7912 SF | - | 17204 | 0 | | PT. OF O.L. 252 | |
| | 7B- T | | | | | | | | | | | | | SLOPES & GRADING | |
| | 8 -WD | I & J STARETT | 3078 | 297 | 46565 SF | 0 | 1153 SF | 0 | 1153 SF | - | 0 | 45412 | | PT. OF O.L. 121 | |
| | 9 -WD | R & M HOUSTON | 2801 | 526 | | | 441 SF | 0 | 441 SF | - | | | | PT. OF O.L. 121 | |
| | 10 -WD | T. REINOEHL | 2132 | 613 | 13919 | 2250 | 2737 | 1075 | 1662 SF | GAR. | 0 | 11182 | | PT. OF O.L. 121 INCULDING GARAGE | |
| | 10 - 7 | | | | | | | | | | | | | SLOPES, SEEDING & REMOVEING GARAGE | |
| | 11A-WD | | | | 7984 | 0 | 7984 | 0 | 7984 | - | 0 | 0 | | TOTAL TAKE LOT # 4890 | |
| | 11B-WD | | | | 499 | 0 | 499 | 0 | 499 | - | 0 | 0 | | PT. VACATED ALLEY PT. LOT 11774 | |
| | 11C-WD | | | | 499 | 0 | 499 | 0 | 499 | - | 0 | 0 | | PT. VACATED ALLEY LOT 11772 | |
| | 12 -WD | RODNEY L. & CONNIE L. SCHRAM<br>RODNEY L. & CONNIE L. SCHRAM | 3599 | 600 | 7973 | 0 | 7973 | 0 | 7973 | RES. | 0 | 0 | | LOT # 4872 TOTAL TAKE INCULDING RES. | |
| | 13A-WD | | | | 11223 | 0 | 4884 | 0 | 4884 | - | 6339 | 0 | | LOT # 4999 | |
| | 13A- T | | | | | | | | | | | | | SLOPES & SEEDING | |
| | 13B-WD | | | | 11031 | 0 | 79 SF | 0 | 79 SF | | 10952 | 0 | | LOT # 5000 | |
| | 13B- T | | | | | | | | | | | | | SLOPES & SEEDING | |
| | 14 - E | | | | | | | | | | | | | | |
| | 15 - T | | | | | | | | | | | | | | |
| | 15 - T | | | | | | | | | | | | | | |




# PLAN & PROFILE

## SEWERS

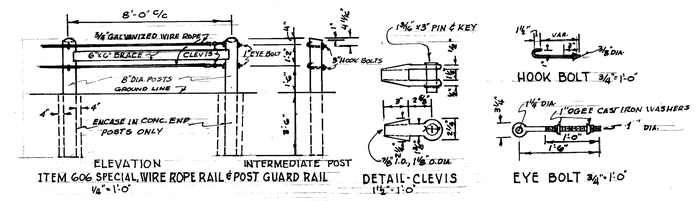
| | STATION FROM | STATION TO | SIDE | 604 TYPE "A" C. BASIN EACH | 603 12" R.C.P. CLASS III LIN. FT. | 604 STORM MH & CASTING VERT. FT. | |
|---|---|---|---|---|---|---|---|
| S-1 | 10+91 | | RIGHT & LEFT | 2 | 6' | | |
| S-2 | 10+91 | | LEFT | | 14' | | |
| S-3 | 10+91 | | RIGHT | | 25 | | |
| S-4 | 11+00 | | LEFT | | | 5 | |
| TOTAL | | | | 2 | 45 | 5 | |

## WALKS

| | STATION FROM | STATION TO | SIDE | 608 4" CONC. WALK "CITY" SQ. FT. |
|---|---|---|---|---|
| W-1 | 7+97 | 11+00 | LT. | 1505 |
| | | | | |
| TOTAL | | | | 1505 |

## ESTIMATED QUANTITES GUARD RAIL

| | STATION FROM | STATION TO | SIDE | 606 SPECIAL WIRE ROPE RAIL LIN. FT. |
|---|---|---|---|---|
| G-1 | 7+96 | 9+76 | RIGHT | 184 |
| TOTAL | | | | 184 |




ELEVATION
ITEM 606 SPECIAL, WIRE ROPE RAIL & POST GUARD RAIL
1/4"=1'-0"

INTERMEDIATE POST

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

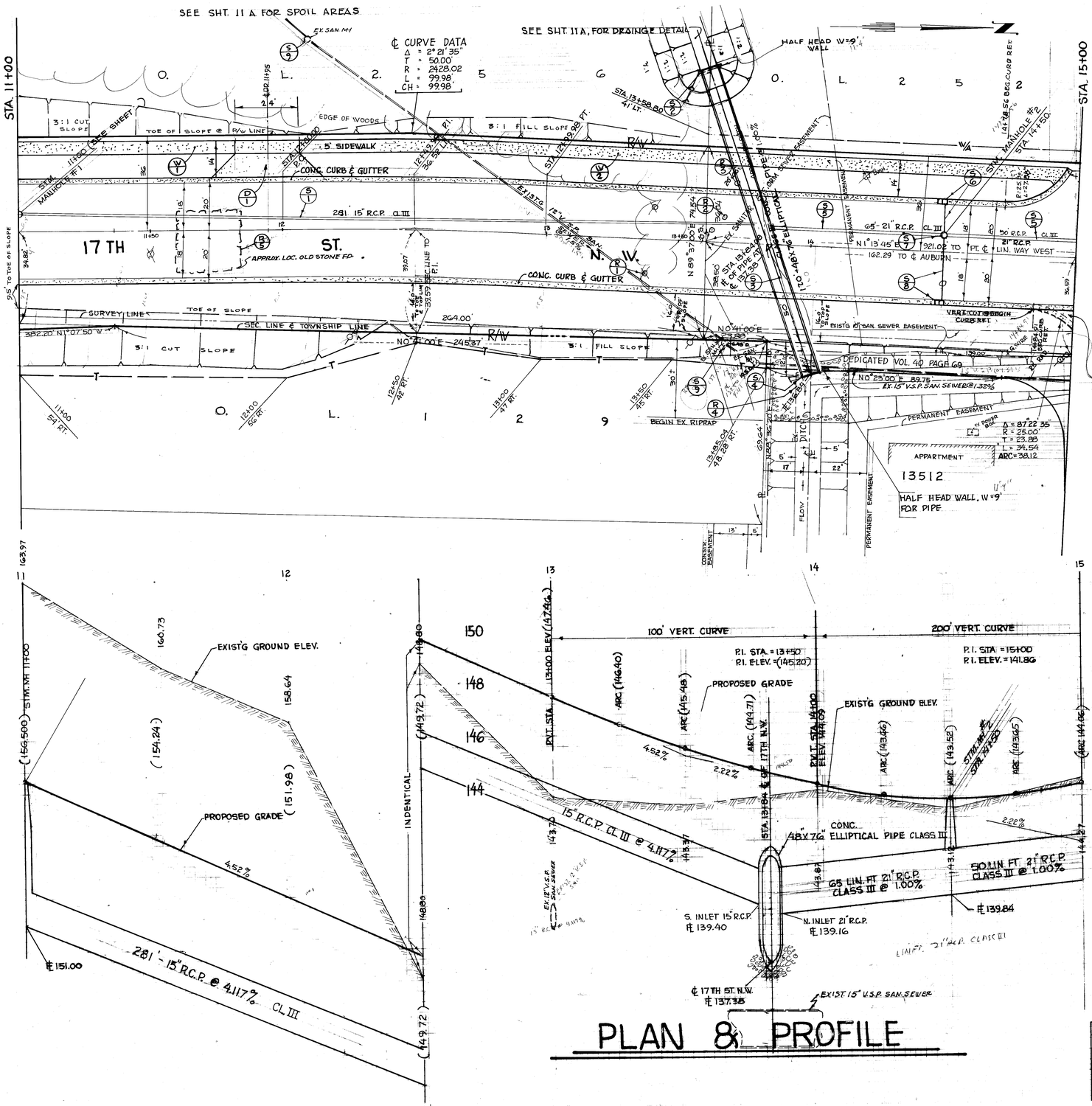
**17TH ST. N.W. STREET IMPROVEMENT**

DR. BY RONNIE MCPHERSON — DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENGINEER - ROBERT WAGONER — FIELD BK. 232, PG. 31, 46

SCALE 1" = 20' HORZ. & 1" = 2' VERT. — DATE

FILE NO. 306 ACC. NO. 2826










# PLAN & PROFILE

## SEWERS

| | STATION FROM | STATION TO | SIDE | 604 RECONSTRUCTED MANHOLE TO GRADE EACH | 603 15" R.C.P. CLASS III LIN. FT. | 603 21" R.C.P. CLASS III | 603 48" X 76" ELLIP. CONC. PIPE CLASS III | 604 TYPE "A" C. BASIN EACH DOUBLE | 604 STORM MH & CASTING VERT. FT. | 604 CONC. HEAD WALLS, RIP-RAP, PITCHING LUMP SUM | 604 HALF HEAD WALL AS PER PLANS PER PIPE DIAMETER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | 11+00 | 13+81 | LEFT | | 281 | | | | | | |
| S-2 | 13+80 | | LEFT | | | | | | | LUM SUM | |
| S-3 | 13+85 | | RIGHT & LEFT ℄ | | | | 120 | | | | |
| S-4 | 14+00 | | RIGHT | | | | | | | | LUMP SUM |
| S-5 | 13+66 | 15+00 | LEFT | | | 115 | | | | | |
| S-6 | 14+50 | | LEFT | | 13 | | | 1 | | | |
| S-7 | 14+50 | | LEFT | | | | | | 4 | | |
| S-8 | 14+50 | | RIGHT | | 25 | | | 1 | | | |
| S-9 | 13+73 | | RIGHT | 2 | | | | | | | |
| TOTAL | | | | 2 | 319 | 115 | 120 | 2 | 4 | LUMP SUM | LUMP SUM |

## REMOVALS

| | STATION FROM | STATION TO | SIDE | 202 PARTIAL REMOVAL OF RIP RAP | 202 REMOVAL OF TREES 12" OR LARGER | 202 REMOVAL OF OLD STONE FD. | | | |
|---|---|---|---|---|---|---|---|---|---|
| R-1 | 13+40 | | RIGHT | | 1 | | | | |
| R-2 | 13+65 | | LEFT | | 1 | | | | |
| R-3 | 13+70 | | LEFT | | 1 | | | | |
| R-4 | 14+00 | | RIGHT | LUMP | | | | | |
| R-5 | 11+60 | 11+84 | LT. & RT. | | | LUMP | | | |
| TOTAL | | | | LUMP | 3 | LUMP | | | |

INTERSECTION DELETED BY CITY COUNCIL. RESOL. NO. 14, 1979, PASSED 4/2/79

## WALKS & DRIVES

| | STATION FROM | STATION TO | SIDE | 608 4" CONC. WALK, S/W, CITY SQ. FT. | 452 6" CONC. PLAIN DRIVE. SQ. YD | |
|---|---|---|---|---|---|---|
| W-1 | 11+00 | 11+83 | LT. | 415 | | |
| W-2 | 12+07 | 14+95 | LT. | 1432 | | |
| D-1 | 11+74 | 12+16 | LT | | 31 | |
| | | | | | | |
| TOTAL | | | | 1847 | 31 | |

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

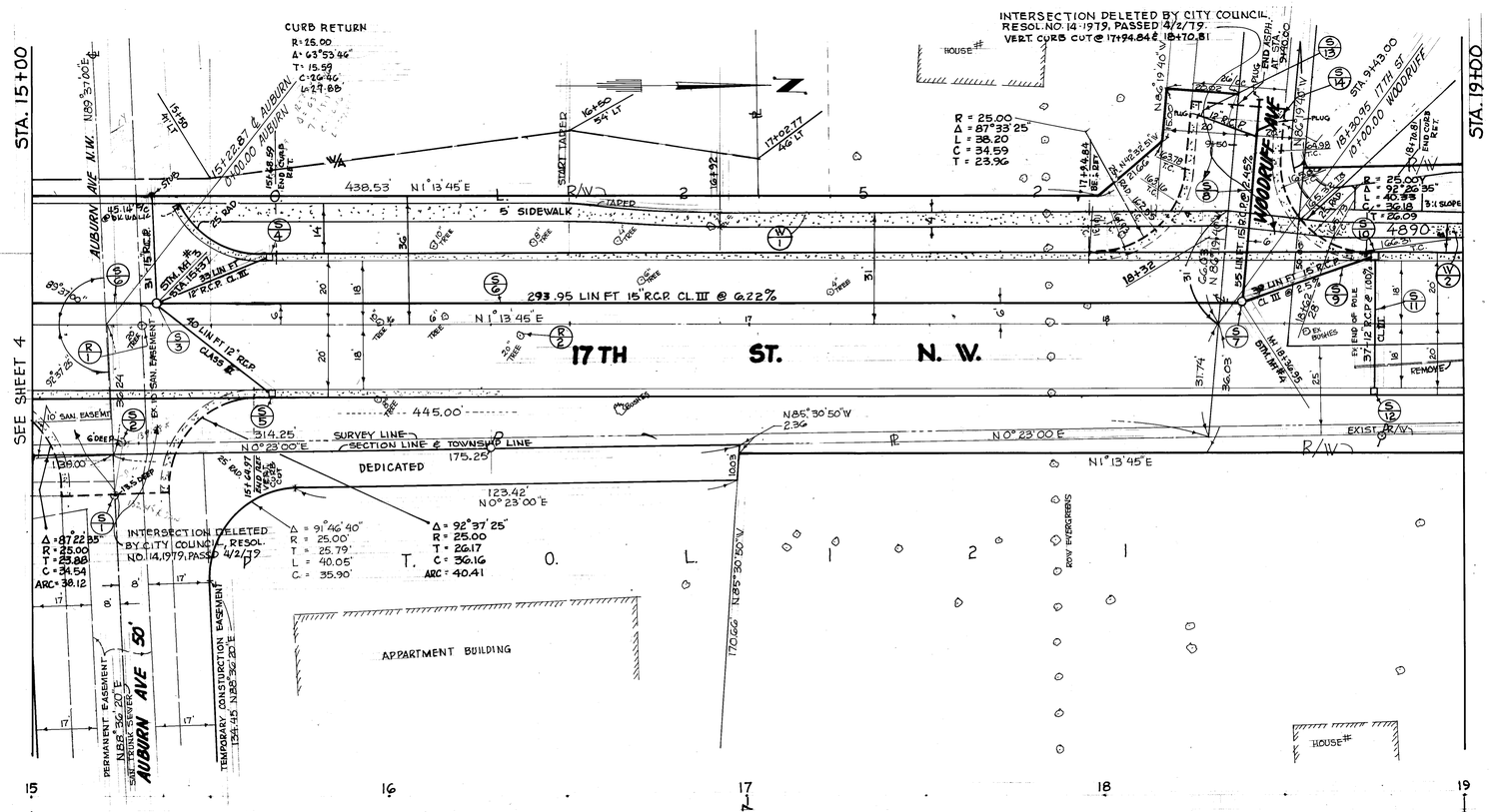
**17TH ST. S.W. STREET IMPROVEMENT & N.W.**

DR BY RONNIE MCPHERSON — DEPT OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENGINEER - ROBERT WAGONER — FIELD BOOK 232 PAGES 31, 46

SCALE 1" = 20' HORZ. & 1" = 2' VERT. — DATE

FILE NO. P-306 ACC. NO. 2887




## SEWERS

| | STATION FROM | STATION TO | SIDE | DELETED | 603 12" R.C.P. CLASS III LIN. FT. | 604 TYPE "A" C.BASIN EACH | 603 15" R.C.P. CLASS III LIN. FT. | 604 MANHOLE ADJUST'D TO GRADE | 604 STORM MANHOLE VERT. FT. | 603 21" R.C.P. CL. III LIN. FT. |
|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | | | | DELETED | | | | | | |
| S-2 | | | | DELETED | | | | | | |
| S-3 | 15+60 | | LEFT | | | | 31 | | 5.1 | |
| S-4 | 15+66 | | LEFT | | 33 | 1 | | | | |
| S-5 | 15+67 | | RIGHT | | 40 | 1 | | | | |
| S-6 | 15+60 | 18+38 | LEFT | | | | 294 | | | 37 |
| S-7 | 10+38 | | LEFT | | | | | | 5.1 | |
| S-8 | 18+38 | 18+43 | LEFT | | | | 55 | | | |
| S-9 | 18+38 | 18+76 | LEFT | | | | 39 | | | |
| S-10 | 18+76 | | LEFT | | | 1 | | | | |
| S-11 | 18+76 | | RIGHT & LEFT | | 37 | | | | | |
| S-12 | 18+76 | | RIGHT | | | 1 | | | | |
| S-13 | ON WOODRUFF | 9+43.05 | LEFT | | 19 | | | | | |
| S-14 | 9+43.00 | | RIGHT | | 6 | | | | | |
| TOTAL | | | | | 135 | 4 | 419 | | 10.2 | 37 |

## REMOVAL ITEMS

| | STATION FROM | STATION TO | SIDE | 202 REMOVAL OF TREES 12" OR OVER | | |
|---|---|---|---|---|---|---|
| R-1 | 15+30 | | ℄ | 1 | | |
| R-2 | 16+37 | | RIGHT | 1 | | |
| | | | | | | |
| | | | | | | |
| TOTAL | | | | 2 | | |

## WALKS

| | STATION FROM | STATION TO | SIDE | 608 4" CONC. WALK "CITY" SQ. FT. | |
|---|---|---|---|---|---|
| W-1 | 15+41 | 18+12 | LT. | 1355 | |
| W-2 | 18+12 | 19+00 | LT. | 355 | |
| TOTAL | | | | 1710 | |

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| CHECKED | | |

CITY OF MASSILLON, OHIO

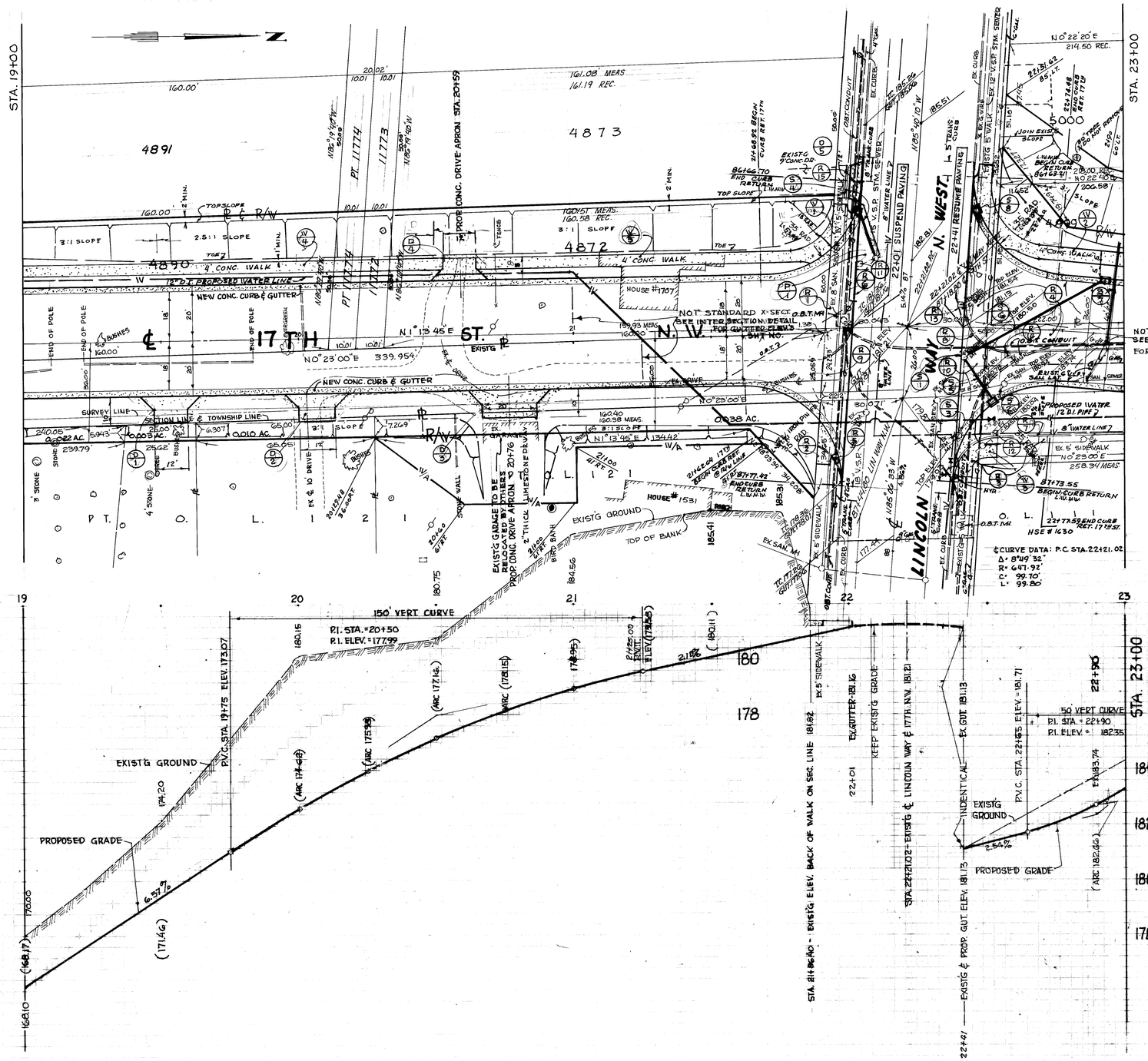
# 17TH ST. S.W. & N.W. STREET IMPROVEMENT

DR BY RONNIE MCPHERSON — DEPT. OF PUBLIC SERVICE, ENGINEERING DIVISION

CITY ENGINEER ROBERT WAGONER — FIELD BOOK 232 PAGES 31, 46

SCALE 1" = 20' HORZ. & 1" = 2' VERT. — DATE

FILE NO. P-306 ACC. NO. 2888




## REMOVALS

| | STATION | | | 202 | 202 | 202 | 202 | 202 |
|---|---|---|---|---|---|---|---|---|
| | FROM | TO | SIDE | WALK REMOVED SQ. FT. | CURB REMOVED LIN. FT. | PAVEMENT REMOVED SQ. YDS. | CATCH BASIN REMOVED EACH | PIPE REMOVAL LIN. FT. |
| R-1 | 21+91 | 22+01 | RT. & LT. | 275 | | | | |
| R-2 | 21+87 | 21+92 | RT. | 25 | | | | |
| R-3 | 22+37 | 22+53 | RT. | 90 | | | | |
| R-4 | 22+43 | 22+54 | RT. & LT. | 617 | | | | |
| R-5 | 21+88 | 21+97 | RT. | | 19 | | | |
| R-6 | 21+90 | 22+07 | RT. & LT. | | 68 | | | |
| R-7 | 22+36 | 23+00 | RT. | | 70 | | | |
| R-8 | 22+42 | 23+00 | RT. & LT. | | 121 | | | |
| R-9 | 21+88 | 22+02 | RT. | | | 45 | | |
| R-10 | 22+36 | 22+56 | LT. & RT. | | | 45 | | |
| R-11 | 22+05 | 22+17 | LT. | | | | 1 | 6 |
| R-12 | 22+40 | 22+53 | RT. | | | | 1 | 12 |
| R-13 | 22+41 | 22+45 | LT. | | | | 1 | 4 |
| R-14 | 22+48 | 22+58 | RT. | | | | 1 | 17 |
| R-15 | 22+01 | 22+07 | LT. | | | 7 | | |
| R-16 | 22+03 | 22+13 | LT. | | | 12 | | |
| TOTAL | | | | 1007 | 278 | 109 | 4 | 339 |

NOT STANDARD X-SECT. SEE INTERSECTION DETAIL FOR GUTTER ELEVATIONS

## SEWERS

| | STATION | | | 604 | 604 | 603 | 603 |
|---|---|---|---|---|---|---|---|
| | FROM | TO | SIDE | MANHOLES ADJUSTED TO GR. EACH | TYPE "A" CITY CATCH BASIN EACH | 12" R.C.P. CL. III C.B. LAT. LIN. FT. | 6" V.S.P. INCLG. BEND & TAPPE PLUGS LIN. FT. |
| S-1 | 22+42 | | RT. | 1 | | | |
| S-2 | 22+56 | | RT. | 1 | | | |
| S-3 | 22+40 | | RT. | 1 | | | |
| S-4 | 22+03 | 22+11 | LT. | | 1 | 18 | |
| S-5 | 22+42 | 22+54 | RT. | | 1 | 18 | |
| S-6 | 22+42 | 22+96 | LT. & RT. | | 1 | 57 | |
| S-7 | 22+94 | 22+98 | LT. & RT. | | | | 36 |
| S-8 | 22+45 | 22+49 | LT. | | 1 | 4 | |
| TOTAL | | | | 3 | 4 | 97 | 36 |

## WALKS, DRIVES & PAVEMENT REPLACEMT

| | STATION | | | 608 | 608 | 452 | 404/305 | 304 |
|---|---|---|---|---|---|---|---|---|
| | FROM | TO | SIDE | 4" CONC. WALK PROJ. (MIN. 2.0) SQ. FT. | 4" CONC. WALK CITY SQ. FT. | 6" CONC DRIVE SQ. YDS. | 2" ASPH. / 10" CONC. BASE SQ. YD. INCL. REMOVAL | AGG. FOR DRIVEWAY STONE CU. YD. |
| W-1 | 21+91 | 22+04 | LT. | 91 | | | | |
| W-2 | 22+47 | 23+00 | LT. | 525 | | | | |
| W-3 | 22+38 | 22+54 | RT. | 145 | | | | |
| D-1 | 19+38 | 19+69 | RT. | | | 14.9 | | |
| D-2 | 19+91 | 20+22 | RT. | | | 14.9 | | |
| D-3 | 20+57 | 20+96 | RT. | | | 13.4 | | 3.5 |
| D-4 | 20+47 | 20+72 | LT. | | | 11.4 | | |
| P-1 | 22+04 | 22+12 | LT. | | | | 12 | |
| W-4 | 19+00 | 20+52 | LT. | | 606 | | | |
| W-5 | 20+62 | 21+95 | LT. | | 524 | | | |
| D-5 | 22+01 | 22+07 | LT. | | | 6.0 | | |
| | | | | | | | | |
| TOTAL | | | | 761 | 1124 | 70.6 | 12 | 3.5 |

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

# 17TH ST. S.W. & N.W. STREET IMPROVEMENT

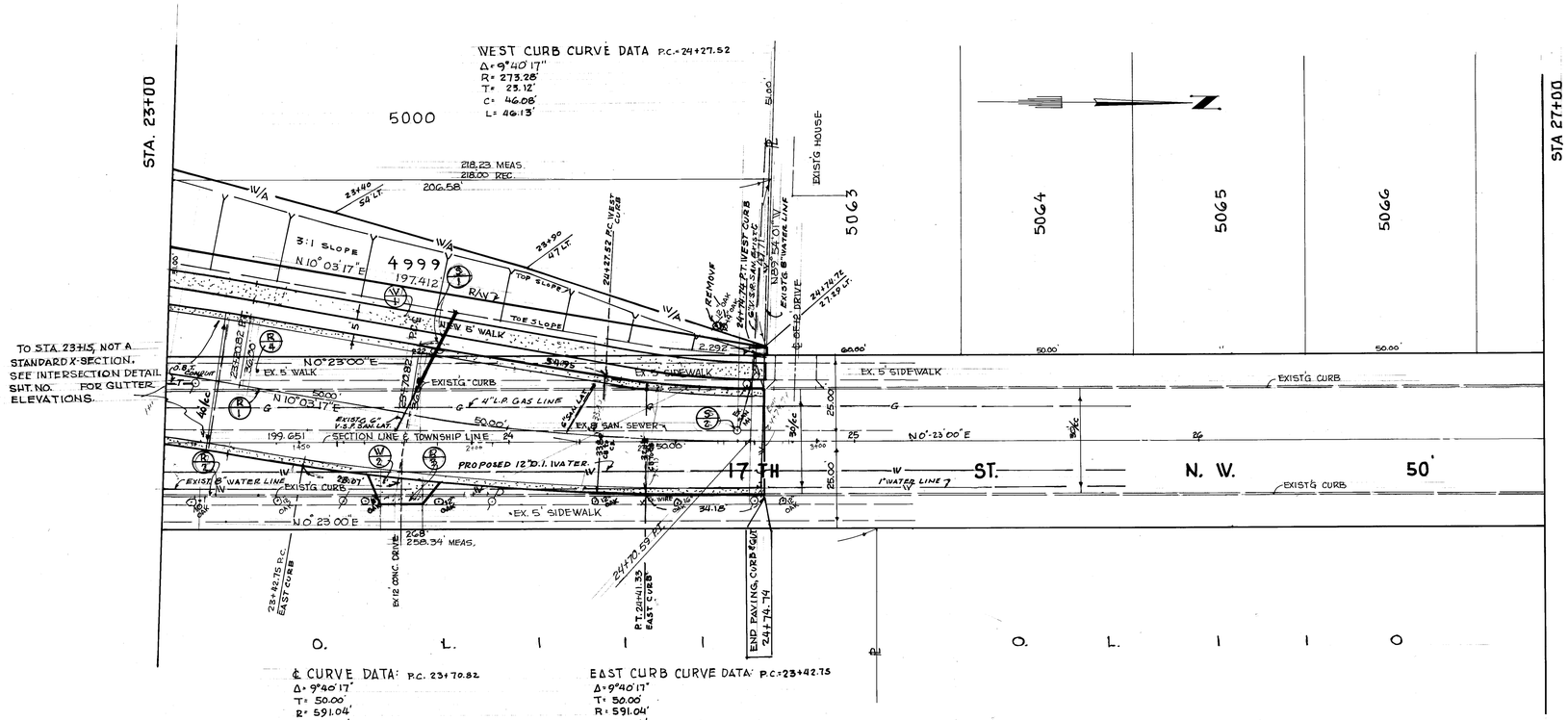
DR. BY RONNIE MCPHERSON — DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENGINEER ROBERT WAGONER — FIELD BOOK 232, PAGES 31, 46

SCALE 1" = 20' HORZ & 1" = 2' VERT. — DATE

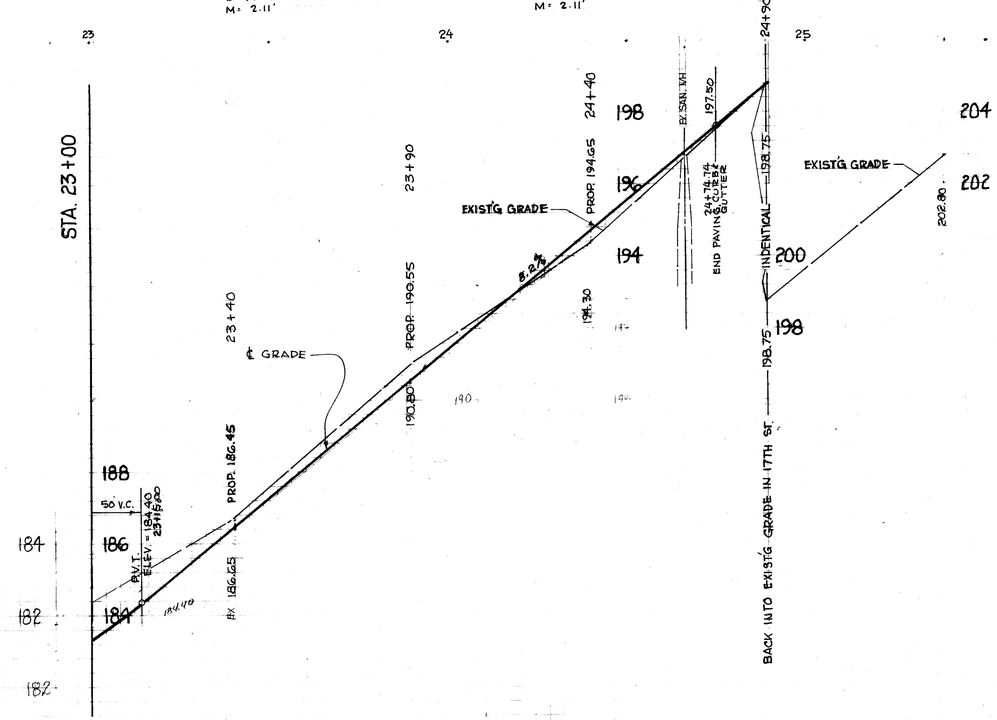
FILE NO. P-306 ACC. NO. 2829

17TH ST. N.W.
MUN. RD FUND & CITY




℄ CURVE DATA: P.C. 23+70.82
Δ=9°40'17"
T=50.00'
R=591.04'
C=99.64'
L=99.77'
M=2.11'

EAST CURB CURVE DATA: P.C.=23+42.75
Δ=9°40'17"
T=50.00'
R=591.04'
C=99.64'
L=99.77'
M=2.11'




## REMOVALS

| | STATION | | | 202 | 202 | 202 | 202 |
|---|---|---|---|---|---|---|---|
| | FROM | TO | SIDE | CURB REMOVED L.FT. | WALK REMOVED S.F. | PAVEMENT REMOVED SQ.YD | TREES 12" REM'D EA. |
| R-1 | 23+00 | 24+75 | LEFT | 175 | | | |
| R-2 | 23+00 | 24+75 | RIGHT | 175 | | | |
| R-3 | 23+68 | 23+81 | RIGHT | | | 4 | |
| R-4 | 23+00 | 24+75 | LEFT | | 875 | | |
| R-5 | 24+60 | | LEFT | | | | 1 |
| R-6 | 24+62 | | LEFT | | | | 1 |
| R-6 | 24+62 | | [illegible] | | | | 1 |
| | | | | 350 | 875 | 4 | 2 |

## SEWERS

| | STATION | | | 604 | 603 |
|---|---|---|---|---|---|
| | FROM | TO | SIDE | MANHOLE ADJ. TO GRADE EACH EA. | 6" V.S.P. REM'D JT. SAN. LAT. INCL. PLUG EA. |
| S-1 | 23+72 | 23+79 | LEFT | | 24 |
| S-2 | 24+67 | | | 1 | |
| TOTAL | | | | 1 | 24 |

## WALKS & DRIVES - CONC.

| | STATION | | | 608 | 452 |
|---|---|---|---|---|---|
| | FROM | TO | | 4" CONC. WALK (MUN. RD.) SQ. FT. | 6" CONC. DRIVE SQ. YD. |
| W-1 | 23+00 | 24+75 | LEFT | 875 | |
| W-2 | 23+62 | 23+84 | RIGHT | | 13 |
| TOTAL | | | | 875 | 13 |

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| CHECKED | | |

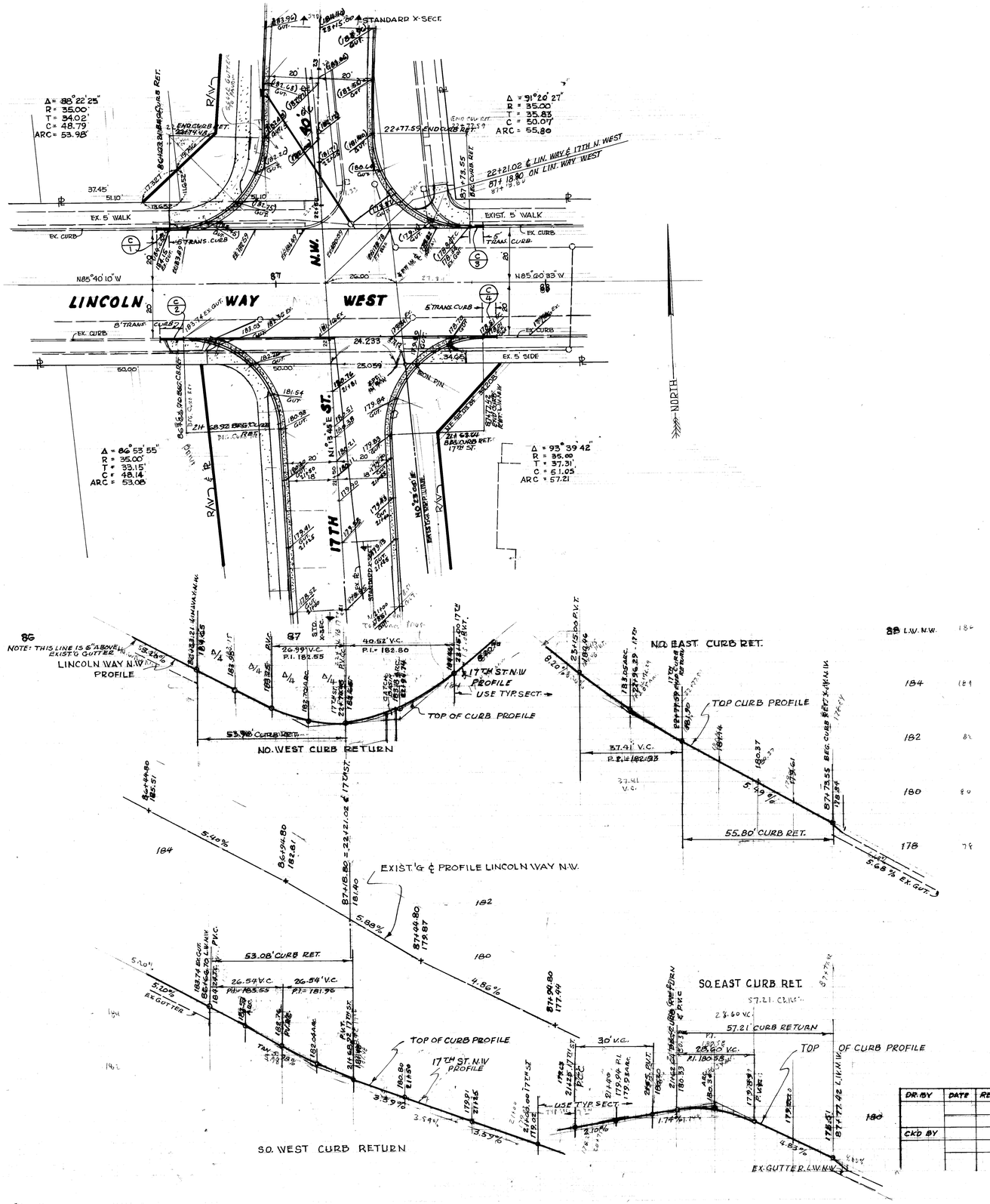
CITY OF MASSILLON, OHIO

# 17 TH ST. S.W. & N.W. STREET IMPROVEMENT

DR. BY ROWNE MCPHERSON — DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
CITY ENGINEER ROBERT WAGONER — FIELD BOOK 232
SCALE 1" = 20' HORZ & 1" = 2' VERT. — DATE

FILE NO. P-306 ACC. NO. 2830

17TH ST. N.W.
MUN. RD. FUND & CITY




| | STATION LINCOLN WAY | | SIDE | 609 TYPE G CURB TRANSITION LIN. FT |
|---|---|---|---|---|
| | FROM | TO | | |
| C-1 | 86+58 | 86+63 | LT. | 5 |
| C-2 | 86+58 | 86+66 | RT. | 8 |
| C-3 | 87+73 | 87+78 | LT. | 5 |
| C-4 | 87+77 | 87+82 | RT. | 5 |
| TOTAL | | | | 23 |




| DR. BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CKD BY | | |

CITY OF MASSILLON, OHIO

DR. BY R.M.E.R.W. — DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENG. ROB'T WAGONER — FD. BK. 232 PG. 31-96

SCALE 1" = 20' HOR., 1" = 2' VER. — DATE MARCH, 1979

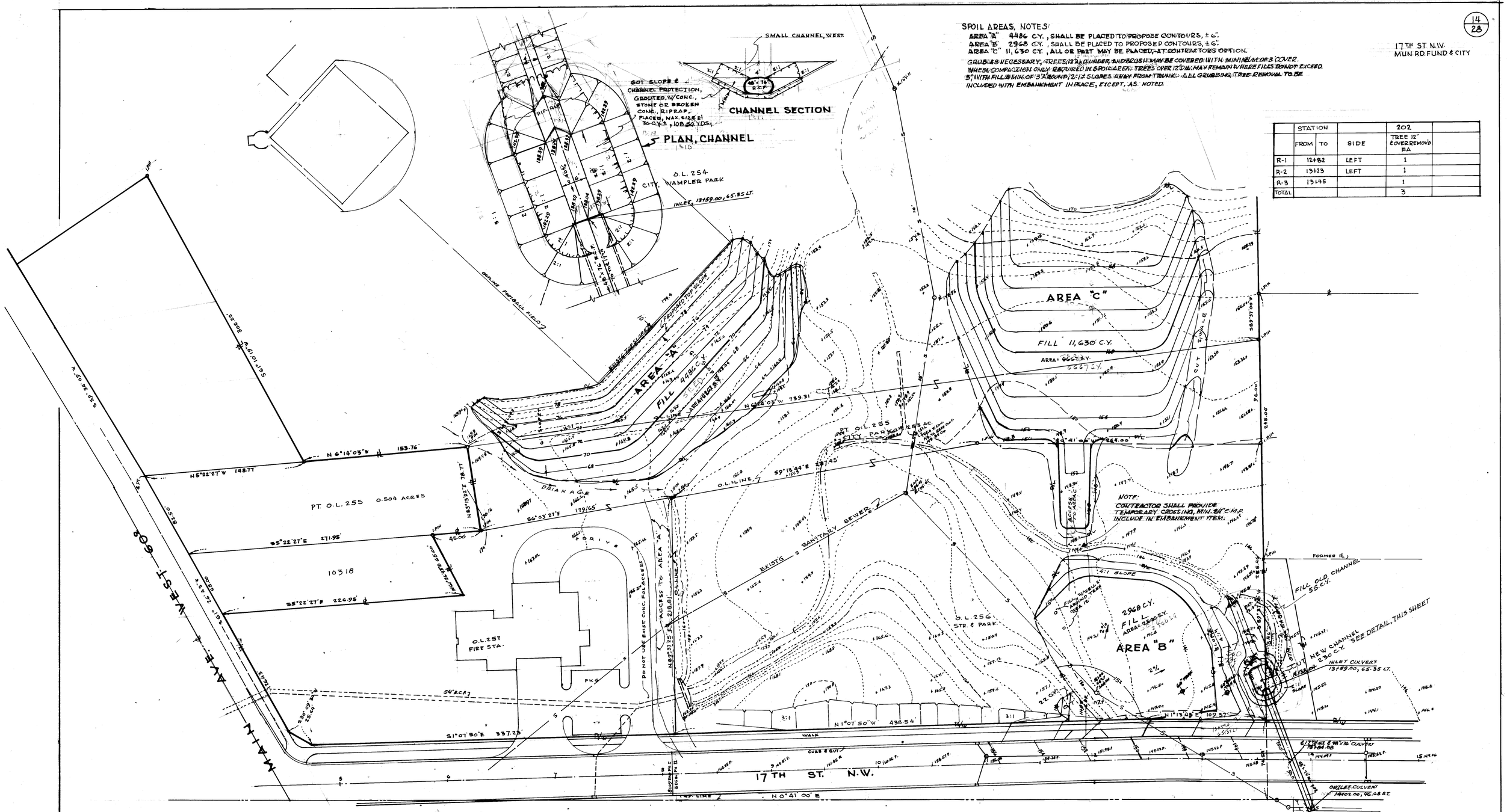
FILE NO. P-306 ACC. NO. 2832

17TH ST. N.W.
MUN. RD. FUND & CITY

SPOIL AREAS, NOTES:
AREA "A" 4486 C.Y., SHALL BE PLACED TO PROPOSE CONTOURS, ± 6".
AREA "B" 2968 C.Y., SHALL BE PLACED TO PROPOSED CONTOURS, ± 6".
AREA "C" 11,630 C.Y., ALL OR PART MAY BE PLACED, AT CONTRACTORS OPTION.

GRUBBING NECESSARY, TREES (12" & UNDER) AND BRUSH MAY BE COVERED WITH MINIMUM OF 3' COVER. WHERE COMPACTION ONLY REQUIRED IN SPOIL AREA, TREES OVER 12" DIA. MAY REMAIN WHERE FILLS DO NOT EXCEED 3', WITH FILL TO MIN. OF 3' AROUND, 2:1 SLOPES AWAY FROM TRUNK. ALL GRUBBING, TREE REMOVAL TO BE INCLUDED WITH EMBANKMENT IN PLACE, EXCEPT, AS NOTED.

| | STATION | | | 202 | |
|---|---|---|---|---|---|
| | FROM | TO | SIDE | TREE 12" & OVER REMOVD EA | |
| R-1 | 12+82 | | LEFT | 1 | |
| R-2 | 13+23 | | LEFT | 1 | |
| R-3 | 13+45 | | | 1 | |
| TOTAL | | | | 3 | |



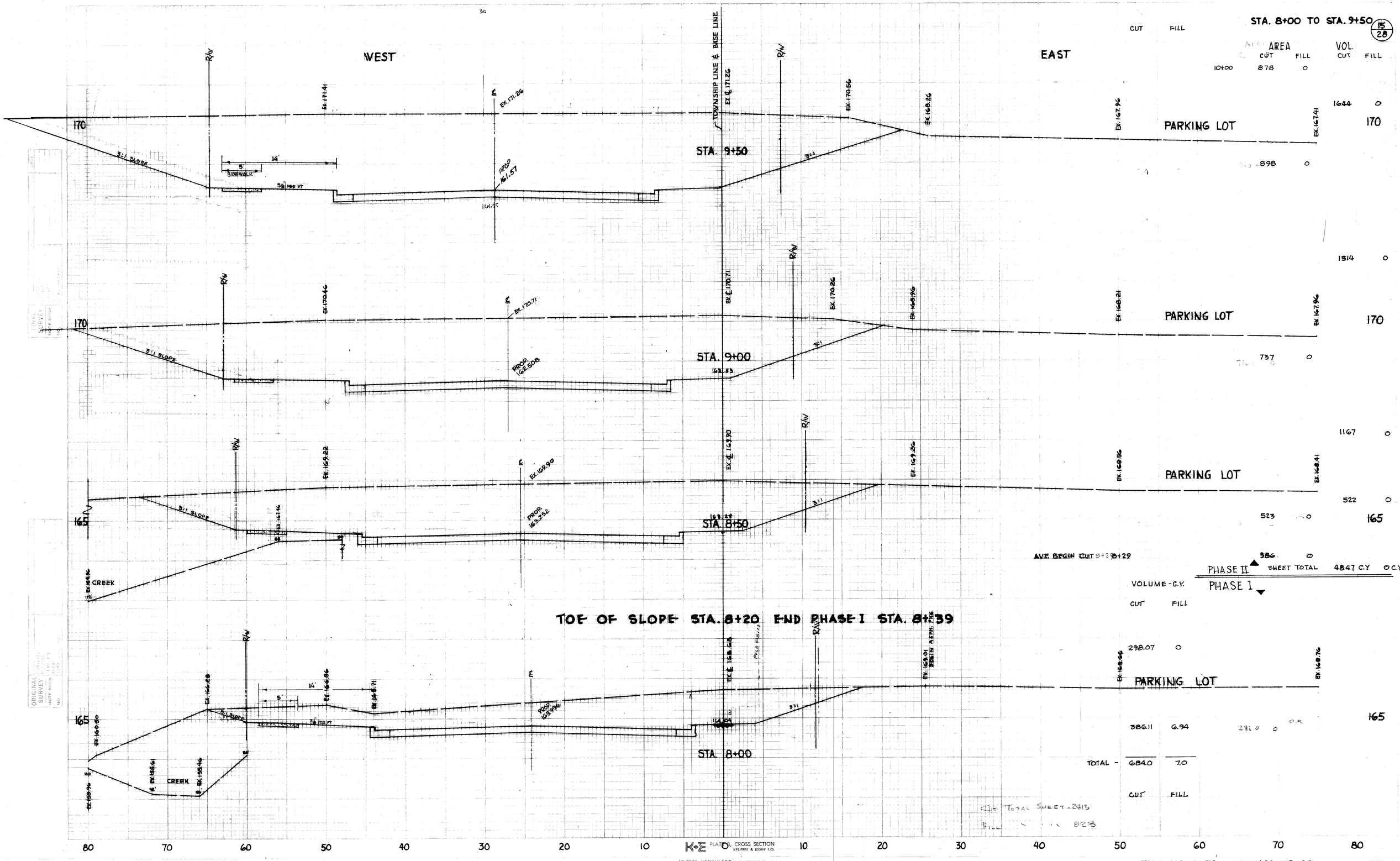

CITY OF MASSILLON, OHIO

17TH ST. N.W. - SPOIL AREAS & OFFSITE DRAINAGE

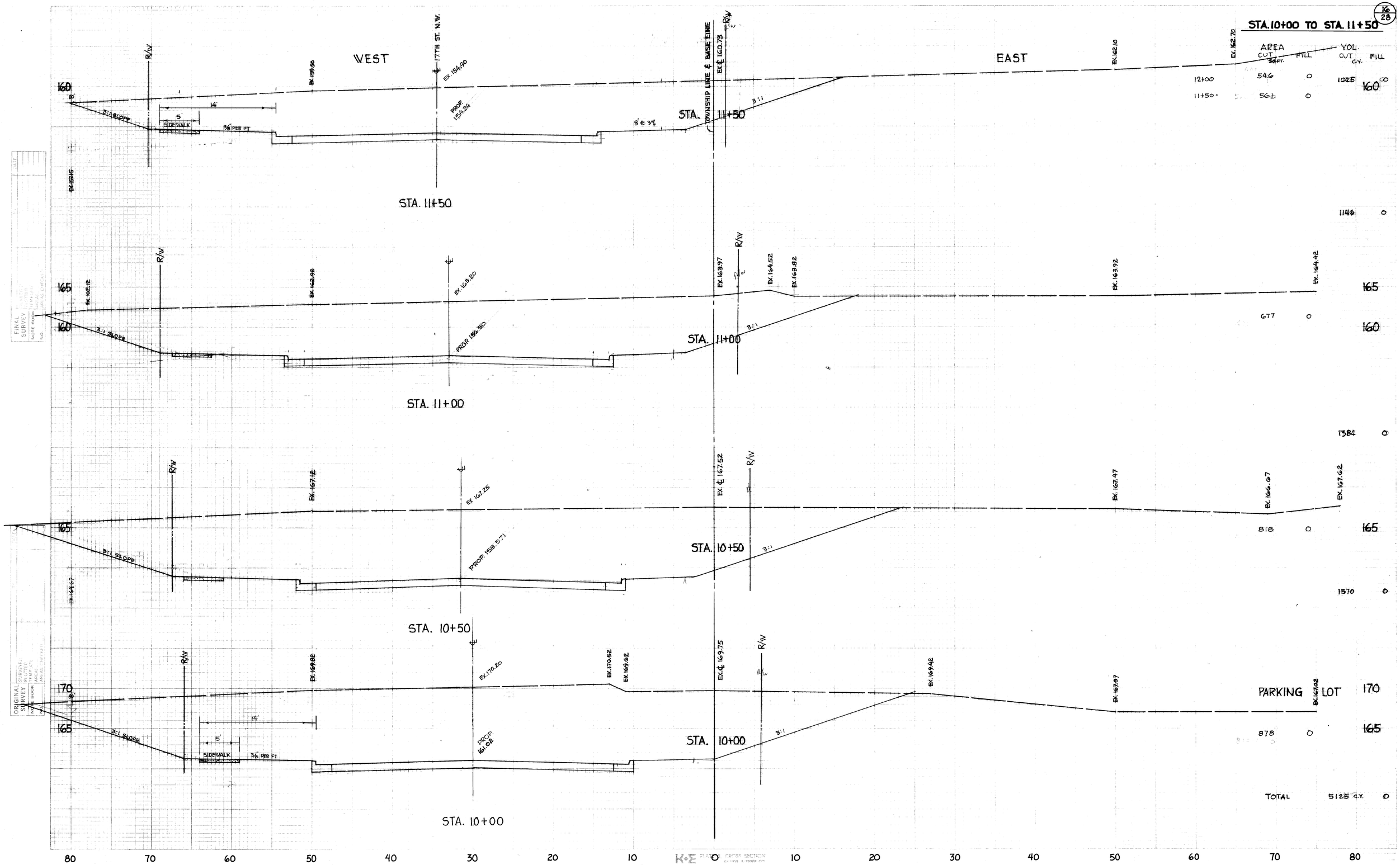
| | |
|---|---|
| DR. BY R.F. WAGONER | DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION |
| CITY ENGINEER R.F. WAGONER | FIELD BOOK |
| SCALE 1" = 40' MARCH 1979 | |



FILE NO. P-306 ACC. NO. 2834


VOLUME - C.Y.
CUT FILL
STA. 8+00 TO STA. 9+50
15/28
WEST
EAST
TOWNSHIP LINE & BASE LINE
R/W
EX. 171.41
EX. 171.26
EX. 170.56
EX. 168.26
EX. 167.96
EX. 167.41
PARKING LOT
170
3:1 SLOPE
14'
5' SIDEWALK
3/8 PER FT
PROP. 161.57
161.55
STA. 9+50
EX. 170.46
EX. 170.71
EX. 170.26
EX. 168.96
EX. 168.21
EX. 167.96
PROP. 162.608
STA. 9+00
EX. 169.22
EX. 169.90
EX. 169.26
EX. 168.56
EX. 168.41
165
PROP. 163.252
STA. 8+50
CREEK
TOE OF SLOPE STA. 8+20 END PHASE I STA. 8+39
EX. 166.46
EX. 166.86
EX. 166.71
EX. 166.01
EX. 165.76
PROP. 163.996
STA. 8+00
EX. 160.50
EX. 165.61
EX. 165.46
80 70 60 50 40 30 20 10 10 20 30 40 50 60 70 80
AREA CUT FILL
VOL. CUT FILL
10+00 878 0
1644 0
898 0
1514 0
737 0
1167 0
522 0
523 0
386 0
AVE BEGIN CUT 8+28 8+29
PHASE II SHEET TOTAL 4847 C.Y. 0 C.Y.
PHASE I
VOLUME - C.Y.
CUT FILL
298.07 0
386.11 6.94
TOTAL - 684.0 7.0
CUT FILL
CUT TOTAL SHEET - 2415
FILL " " 823
K+E PLATO CROSS SECTION KEUFFEL & ESSER CO.
48 7072 HERCULENE DRAFTING FILM
FILE NO. P-306 ACC. NO. 2835

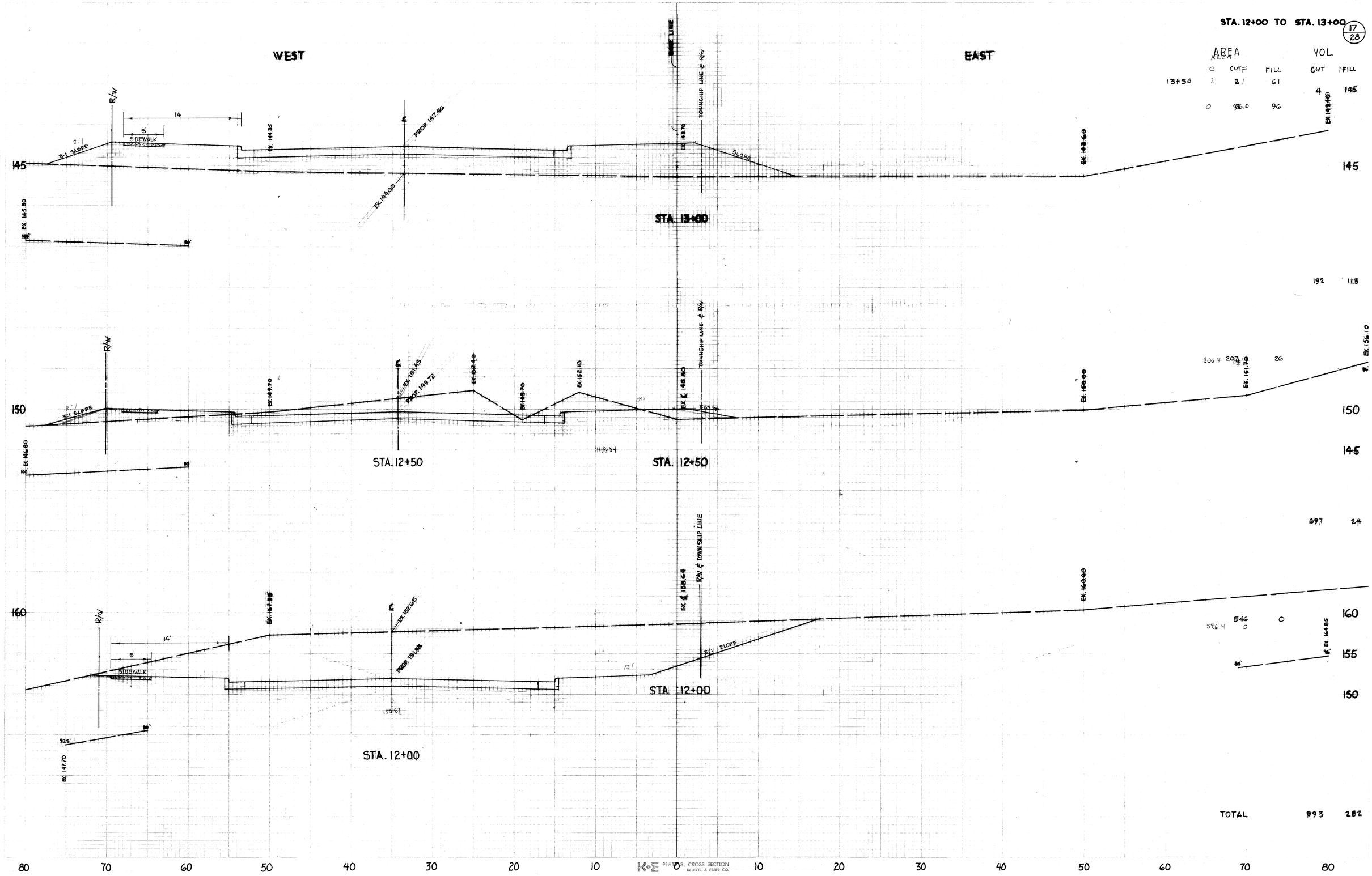
# STA. 10+00 TO STA. 11+50




FILE NO. P-306 ACC. NO. 2836

STA. 12+00 TO STA. 13+00

17/28




| | AREA C | AREA CUT | AREA FILL | VOL CUT | VOL FILL |
|---|---|---|---|---|---|
| 13+50 | 2 | 21 | 61 | 4 | 145 |
| | 0 | 96.0 | 96 | | |
| | | | | 192 | 113 |
| | | 106.4 | 207.4 | | 26 |
| | | | | 697 | 24 |
| | | 546.4 | 546 | 0 | 0 |
| TOTAL | | | | 893 | 282 |

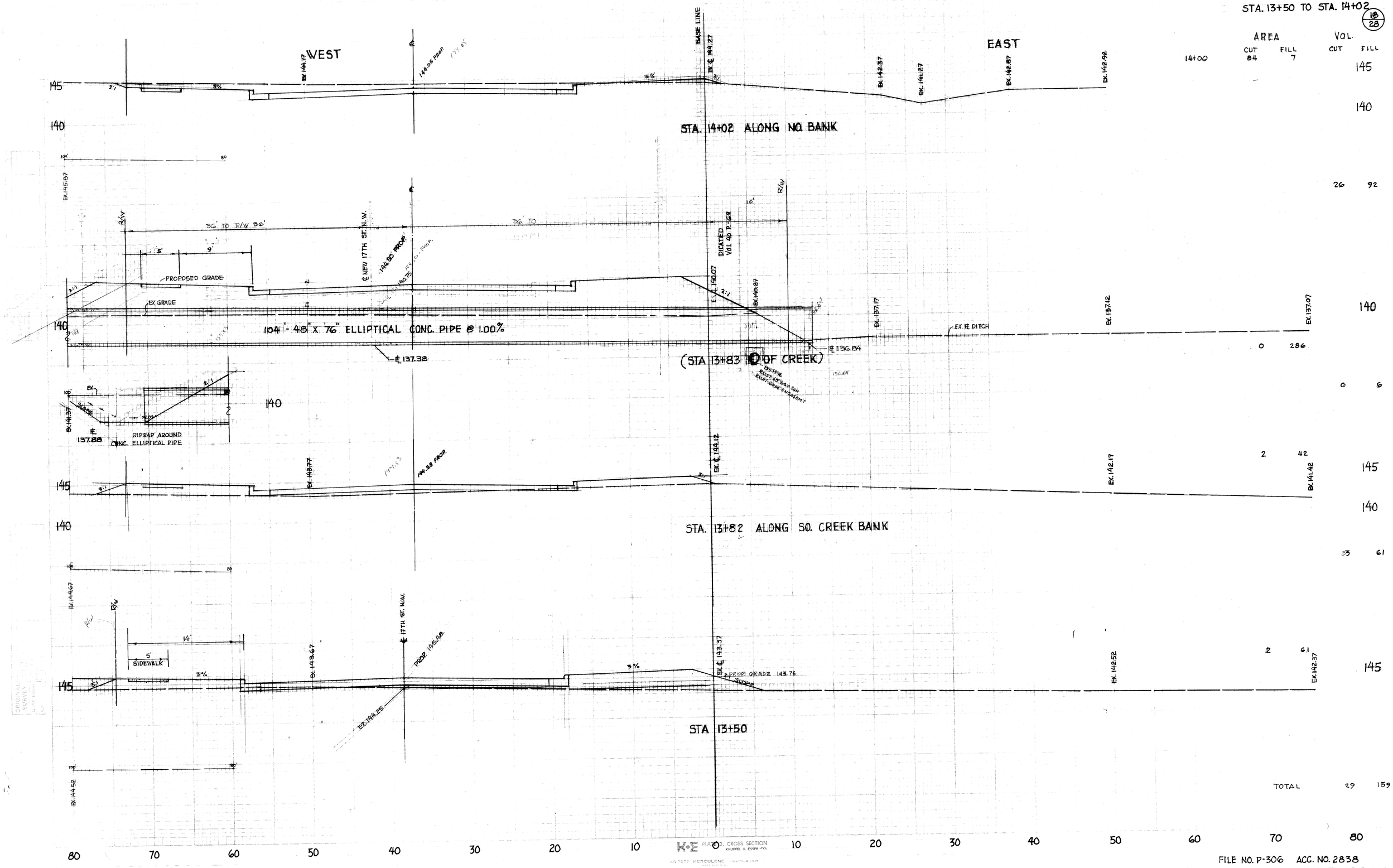
K+E PLATES, CROSS SECTION KEUFFEL & ESSER CO.

48 7072 HERCULENE

FILE NO. P-306 ACC. NO. 2837

STA. 13+50 TO STA. 14+02

18/28



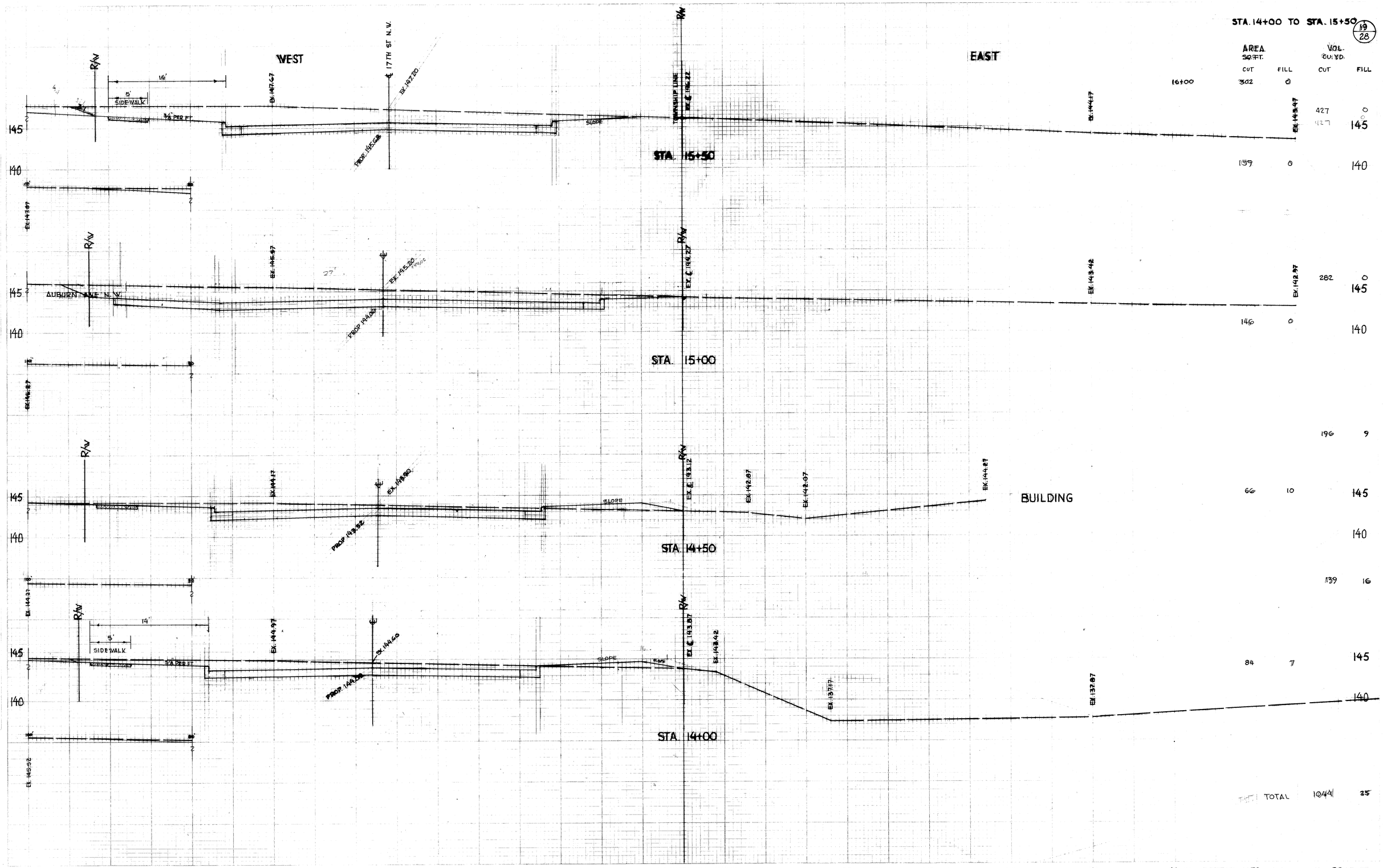

| | AREA CUT | AREA FILL | VOL. CUT | VOL. FILL |
|---|---|---|---|---|
| 14+00 | 84 | 7 | | |
| | | | 26 | 92 |
| | | | 0 | 286 |
| | | | 0 | 6 |
| | 2 | 42 | | |
| | | | 83 | 61 |
| | 2 | 61 | | |
| TOTAL | | | 29 | 159 |

PLANS, CROSS SECTION

FILE NO. P-306 ACC. NO. 2838

STA. 14+00 TO STA. 15+50

19/28

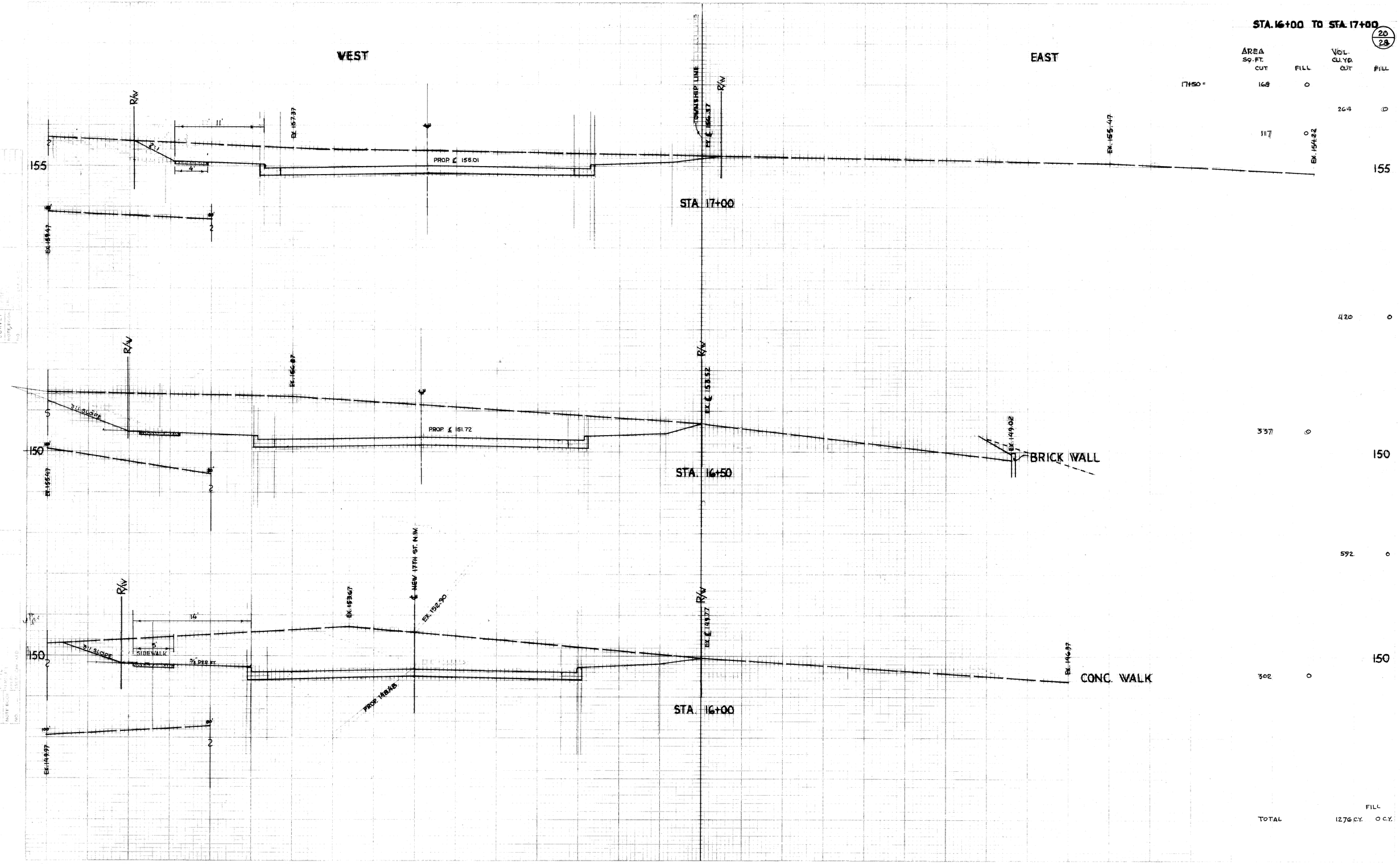



| | AREA SQ. FT. CUT | AREA SQ. FT. FILL | VOL. CU. YD. CUT | VOL. CU. YD. FILL |
|---|---|---|---|---|
| 16+00 | 302 | 0 | | |
| | | | 427 | 0 |
| | | | 427 | 0 |
| | 159 | 0 | | |
| | | | 282 | 0 |
| | 146 | 0 | | |
| | | | 196 | 9 |
| | 66 | 10 | | |
| | | | 139 | 16 |
| | 84 | 7 | | |
| TOTAL | | | 1044 | 25 |

K+E PLATES, CROSS SECTION KEUFFEL & ESSER CO.

48 7072 HERCULENE DRAFTING FILM

FILE NO P-306 ACC. NO. 2839

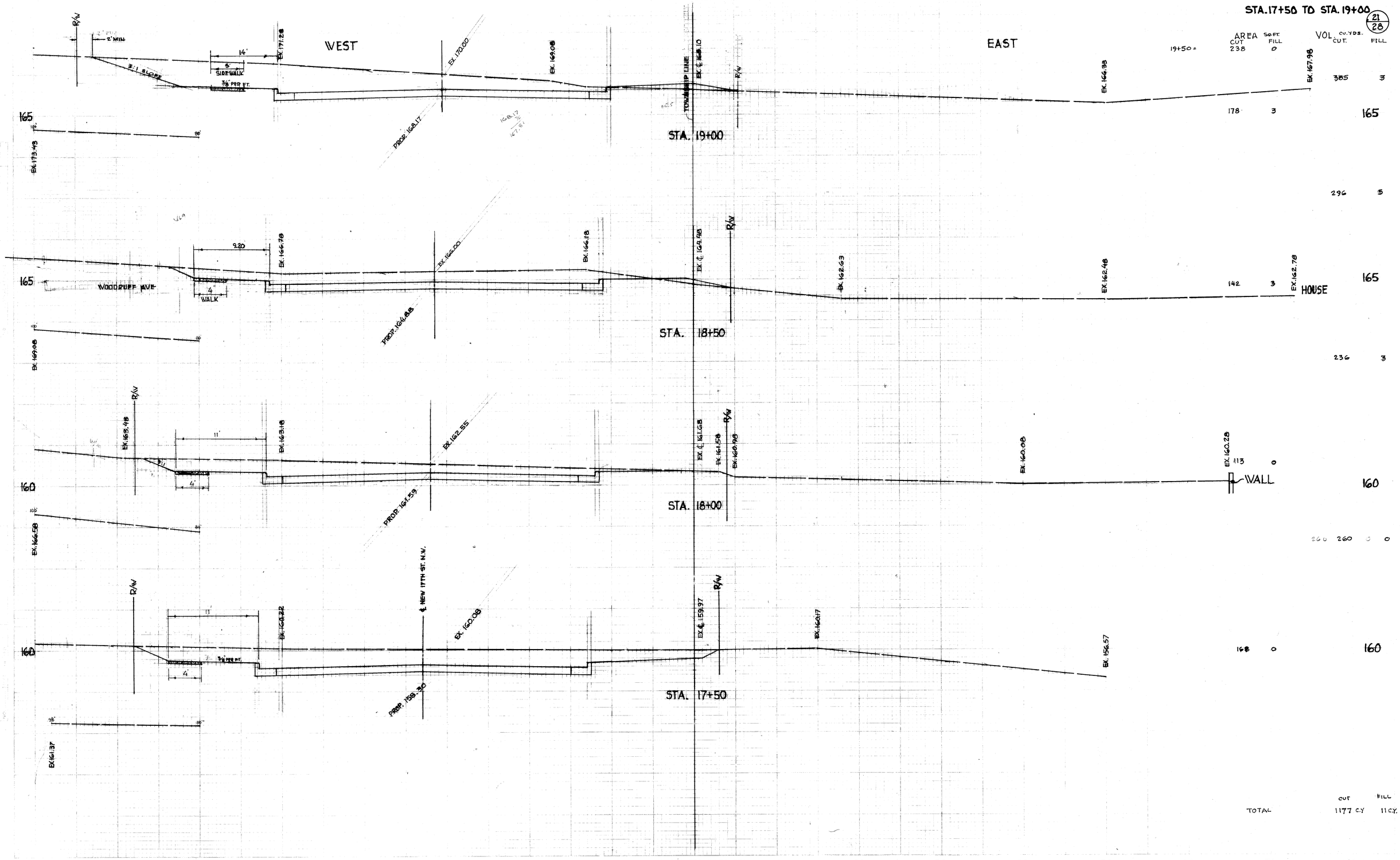



| | AREA SQ. FT. CUT | AREA SQ. FT. FILL | VOL. CU. YD. CUT | VOL. CU. YD. FILL |
|---|---|---|---|---|
| 17+50 = | 168 | 0 | | |
| | | | 264 | 0 |
| | 117 | 0 | | |
| | | | 420 | 0 |
| | 337 | 0 | | |
| | | | 592 | 0 |
| | 302 | 0 | | |
| TOTAL | | | 1276 C.Y. | FILL 0 C.Y. |

K+E PLATE 8, CROSS SECTION KEUFFEL & ESSER CO.

48 7072 HERCULENE DRAFTING FILM

FILE NO. P-306 ACC. NO. 2840



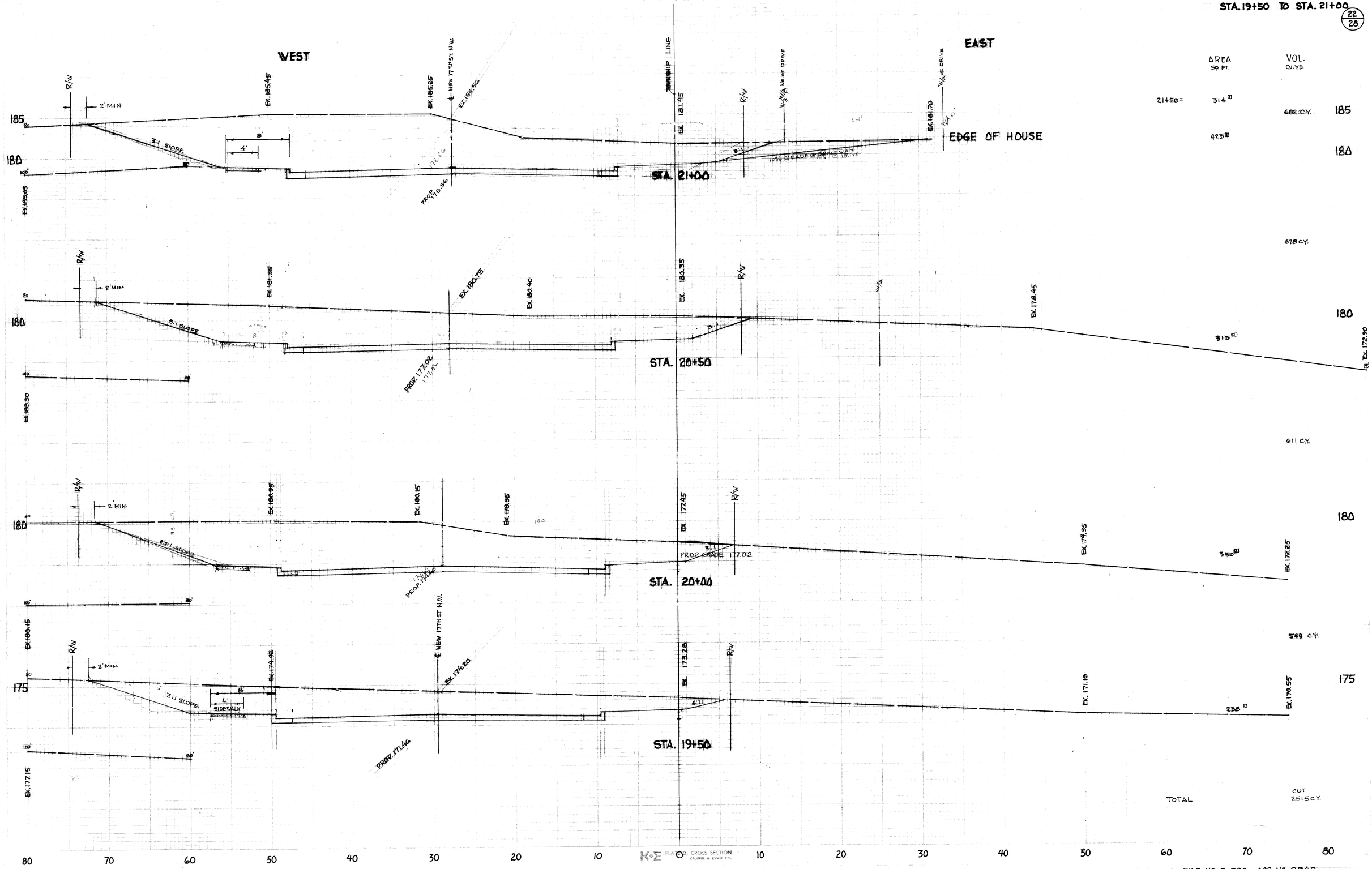

| | AREA SQ. FT. CUT | AREA SQ. FT. FILL | VOL. CU. YDS. CUT | VOL. CU. YDS. FILL |
|---|---|---|---|---|
| 19+50 = | 238 | 0 | 385 | 3 |
| | 178 | 3 | | |
| | | | 296 | 5 |
| | 142 | 3 | | |
| | | | 236 | 3 |
| | 113 | 0 | | |
| | | | 260 | 0 |
| | 168 | 0 | | |
| TOTAL | | | 1177 C.Y. CUT | 11 C.Y. FILL |

K+F PLATE 2. CROSS SECTION
KRUFFEL & FISER CO.

FILE NO. P-306 ACC. NO. 2841

STA. 19+50 TO STA. 21+00

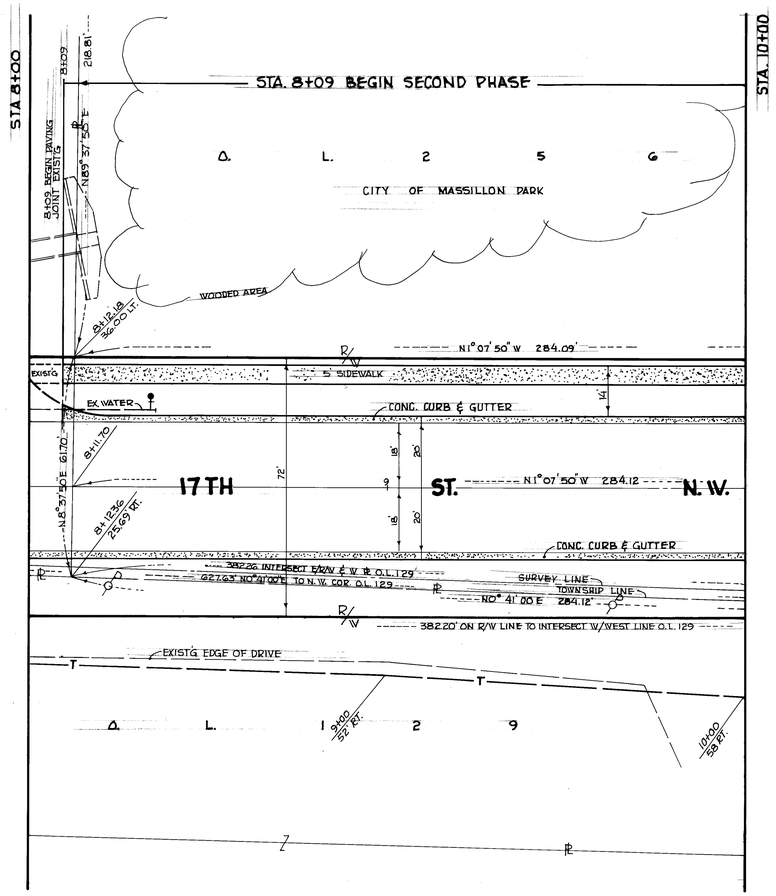
22/28




| | AREA SQ. FT. | VOL. CU. YD. |
|---|---|---|
| 21+50 = | 314 | |
| | 423 | 682 C.Y. |
| | | 678 C.Y. |
| | 510 | 611 C.Y. |
| | 350 | 544 C.Y. |
| | 238 | |
| TOTAL | | CUT 2515 C.Y. |

PLAN & CROSS SECTION
KRUPPEL & ESSER CO.

FILE NO. P-306 ACC. NO. 2842




# PROPERTY MAP

| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

17TH ST. N.W. PROPERTY MAP

DR BY RONNIE MCPHERSON

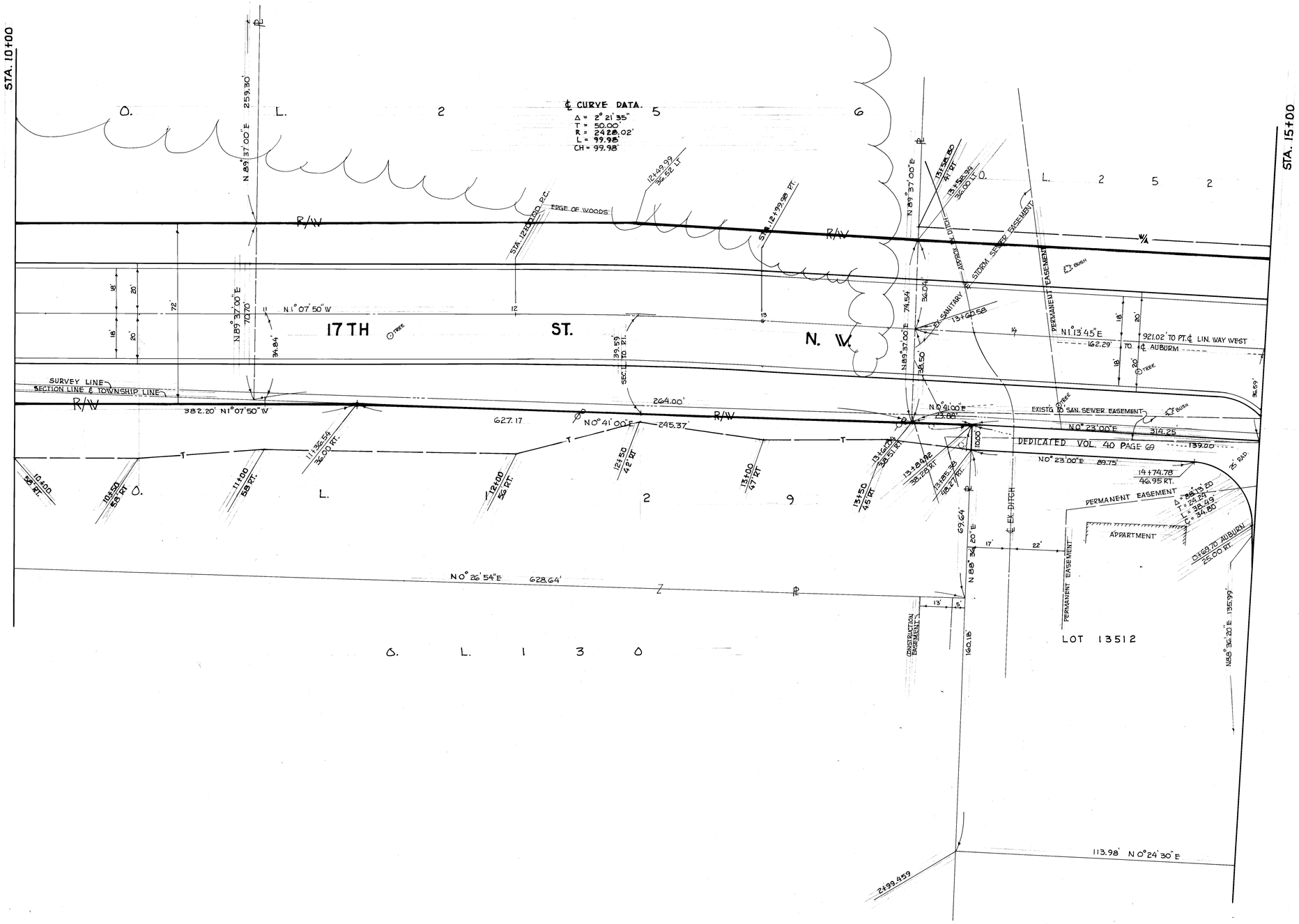
DEPT. OF PUBLIC SERVICE
ENGINEERING DIVISION

CITY ENGINEER - ROBERT WAGONER

SCALE 1" = 20' HORZ. & 1" = 2' VERT

DATE

FILE NO. P-306 ACC. NO. 2846




| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

# 17TH ST. N.W. PROPERTY MAP

DR BY RONNIE MCPHERSON

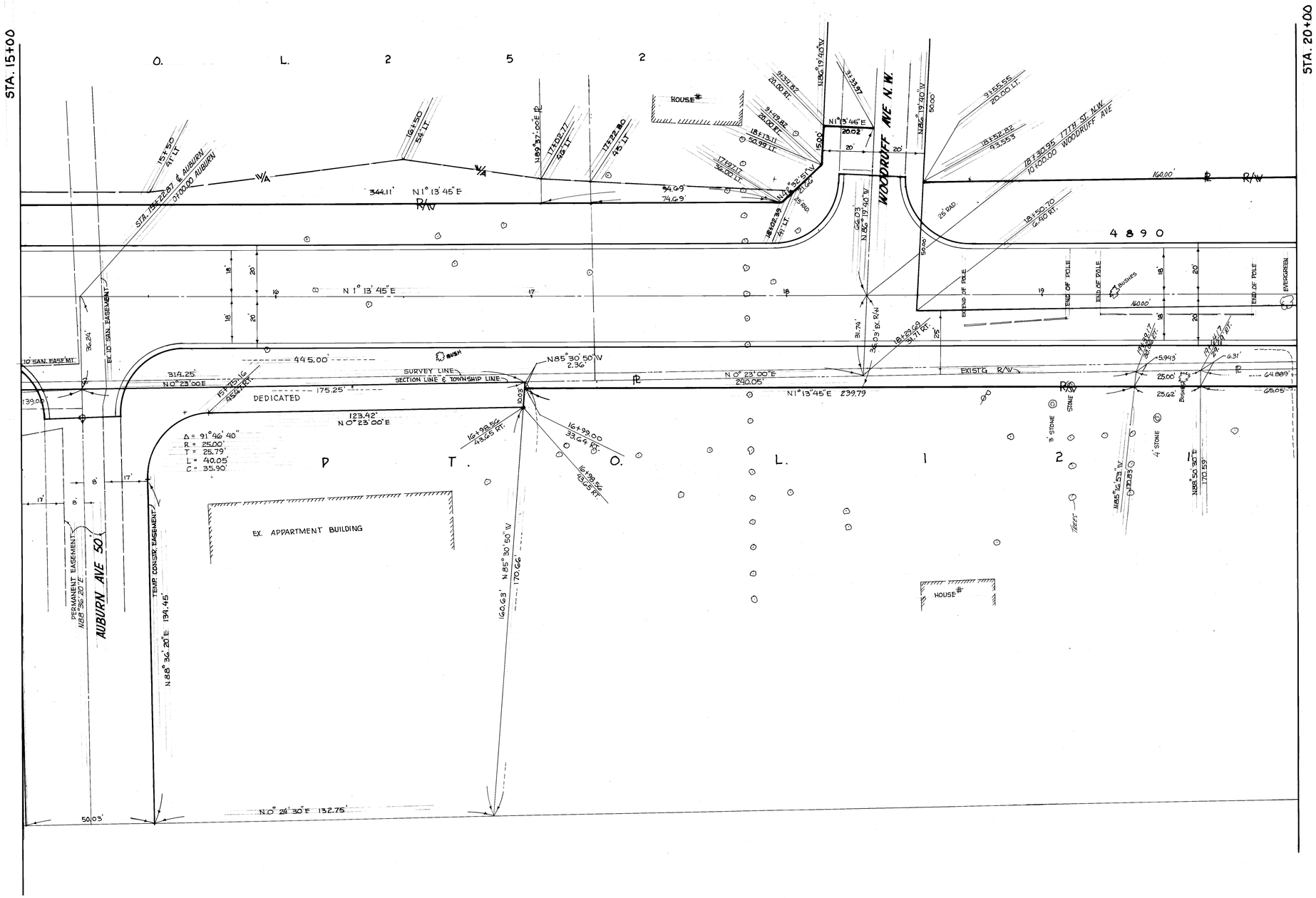
DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION

CITY ENGINEER - ROBERT WAGONER

SCALE 1" = 20' HORZ & 1" = 2' VERT.

DATE

FILE NO. P-306 ACC. NO. 2847




| DRAWN BY | DATE | REVISION DESCRIPTION |
|---|---|---|
| | | |
| CHECKED BY | | |

CITY OF MASSILLON, OHIO

# 17TH ST. N.W. PROPERTY MAP

D.P. BY RONNIE MCPHERSON

DEPT. OF PUBLIC SERVICE
ENGINEERING DIVISION

CITY ENGINEER, ROBERT WAGONER

SCALE 1"=20' HORZ & 1"=2' VERT.

DATE

FILE NO. P-306 ACC. NO. 2848