CITY OF MASSILLON

CITY ENGINEER DEPARTMENT

STARK COUNTY, OHIO

27th (JACKSON AVE.) WIDING

PROJECT DESCRIPTION

CONSTRUCTION OF FULL DEPTH PAVEMENT AND STORM SEWER.

DESIGN DESIGNATION

CURRENT ADT (2005)	9400
DESIGN YEAR ADT (2015)	11000
DESIGN HOURLY VOLUME (2015)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	45 MPH
LEGAL SPEED	35 MPH

DESIGN FUNCTIONAL CLASSIFICATION – Connector

CONVENTIONAL SIGNS

RIGHT OF WAY • • EXISTING: ——— ———, PROPOSED: ———
COUNTY LINE • • • ———————————————————
TOWNSHIP LINE • • ——— ——— ——— ———
CORPORATION LINE ———————————————————
FENCE LINE • • • EXISTING: -x-x-x-, PROPOSED: -x-x-x-
GUARDRAIL • • • EXISTING: -o-o-o-, PROPOSED: -●-●-●-
MANHOLES • • • • EXISTING: ○, PROPOSED: ◑, ADJUSTED: ◑
CATCH BASINS • • EXISTING: ⊡, PROPOSED: ■, ADJUSTED: ■
SIGNS • • • • • • 1–POST: ⊢, 2–POST: ⊧, 3–POST: ⊫
EXISTING POLES • • POWER: ϕ, TELEPHONE ϕ, LIGHT ϕ, SPAN ϕ
PROPOSED POLES • POWER: ϕ, TELEPHONE ϕ, LIGHT ϕ, SPAN ϕ
EXIST. UTILITIES • VALVE: ♁, HYDRANT: ♁, METERS: Ⓜ / ⊠, GUY: ⟋

STEVEN D. HAMIT — PROFESSIONAL ENGINEER

CITY ENGINEER — STEVEN D. HAMIT, P.E. — 1-26-06 DATE

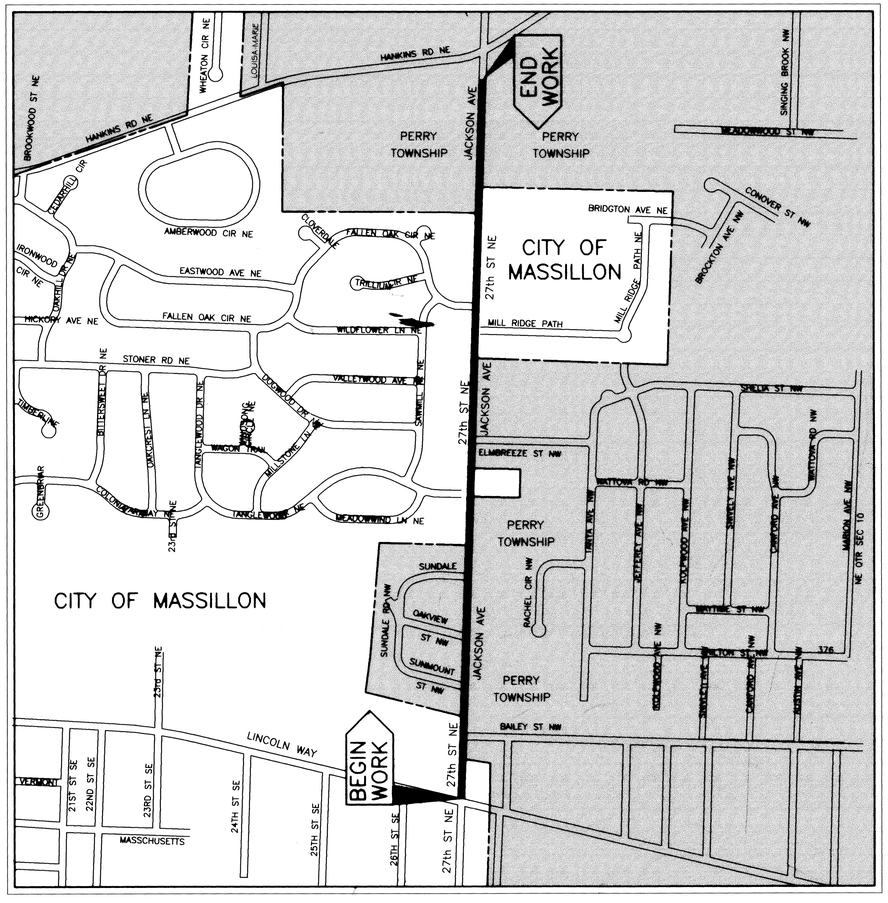
UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG
CALL 1–800–362–2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON–MEMBERS
MUST BE CALLED DIRECTLY

TWO WORKING DAYS
BEFORE YOU DIG
CALL 1–800–925–0988 (TOLL FREE)
OIL ● GAS PRODUCERS UNDERGROUND PROTECTION SERVICE

PLAN PREPARED BY:

CITY OF MASSILLON
Engineering Department



PORTION TO BE IMPROVED ——— ——— ———
STREETS ——— ——— ——— ——— ——— ———

Francis H. Cicchinelli, Jr.
Mayor

Massillon Means More!

TOGETHER Perry Township WE TAKE PRIDE

INDEX OF SHEETS:

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APPROVALS

Michael Loudiana — DIRECTOR OF PUBLIC SAFETY AND SERVICE — MIKE LOUDIANA — 01-30-06 DATE

James F. Holmes — BOARD OF TRUSTEE PRESIDENT — JIM HOLMES — 01-30-06 DATE

CITY OF MASSILLON ELECTED OFFICIALS

FRANCIS H. CICCHINELLI, Jr.	MAYOR
PERICLES G. STERGIOS	LAW DIRECTOR/PROSECUTOR
BILL HAMIT	AUDITOR
PAUL LAMBERT	TREASURER
COUNCIL	
GLEN E. GAMBER	PRESIDENT
RONALD E. MANG	1st WARD
CHUCK MAIER	2nd WARD
KATHERINE CATAZARO–PERRY	3rd WARD
TONY M. TOWNSEND	4th WARD
DONNIE PETERS JR.	5th WARD
DAVID K. McCUNE	6th WARD
TIM BYRAN	AT LARGE
PAUL MANSON	AT LARGE
JAYNE FERRERO	AT LARGE

PERRY TOWNSHIP ELECTED OFFICIALS

JIM HOLMES	PRESIDENT
CRAIG CHESSLER	VICE–PRESIDENT
ANNA M. CAPALDI	TRUSTEE
JOE SCHLEGEL	CLERK/TREASURER
CHARLES HALL	LAW DIRECTOR

NW NE SW SE

500 250 0 500
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: April, 2005	DATE: April, 2005

27th (Jackson Ave.) Widening
Title Sheet
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr. Mayor
Massillon Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0301.dwg
ACCOUNT NUMBER 05st03

BEGIN WORK
STA. 9+50

Lincoln Way East

PI STA. 12+16.33
DEFLECTION = 00°45'00"RT.

City of Massillon

SET NEW
MONUMENT

Sunmont

Perry Township

MATCH LINE STA. 19+00

Bailey

PI STA. 14+45.52
DEFLECTION = 00°40'30"LT.

Perry Township

Perry Township

City of Massillon

Oakview

Sundale

MATCH LINE STA. 19+00

MATCH LINE STA. 30+50

Perry Township

City of Massillon

Tanglewood

PI STA. 41+03.17
DEFLECTION = 00°08'22"RT.

SET NEW
MONUMENT

MATCH LINE STA. 30+50

MATCH LINE STA. 42+00

Elmbreeze

Perry Township

City of Massillon

HORIZONTAL
SCALE IN FEET
50 25 0 50

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept, 2005	DATE: Sept. 2005

27th (Jackson Ave.) Widening

Schematic Plan Sta. 7+00 to Sta. 42+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

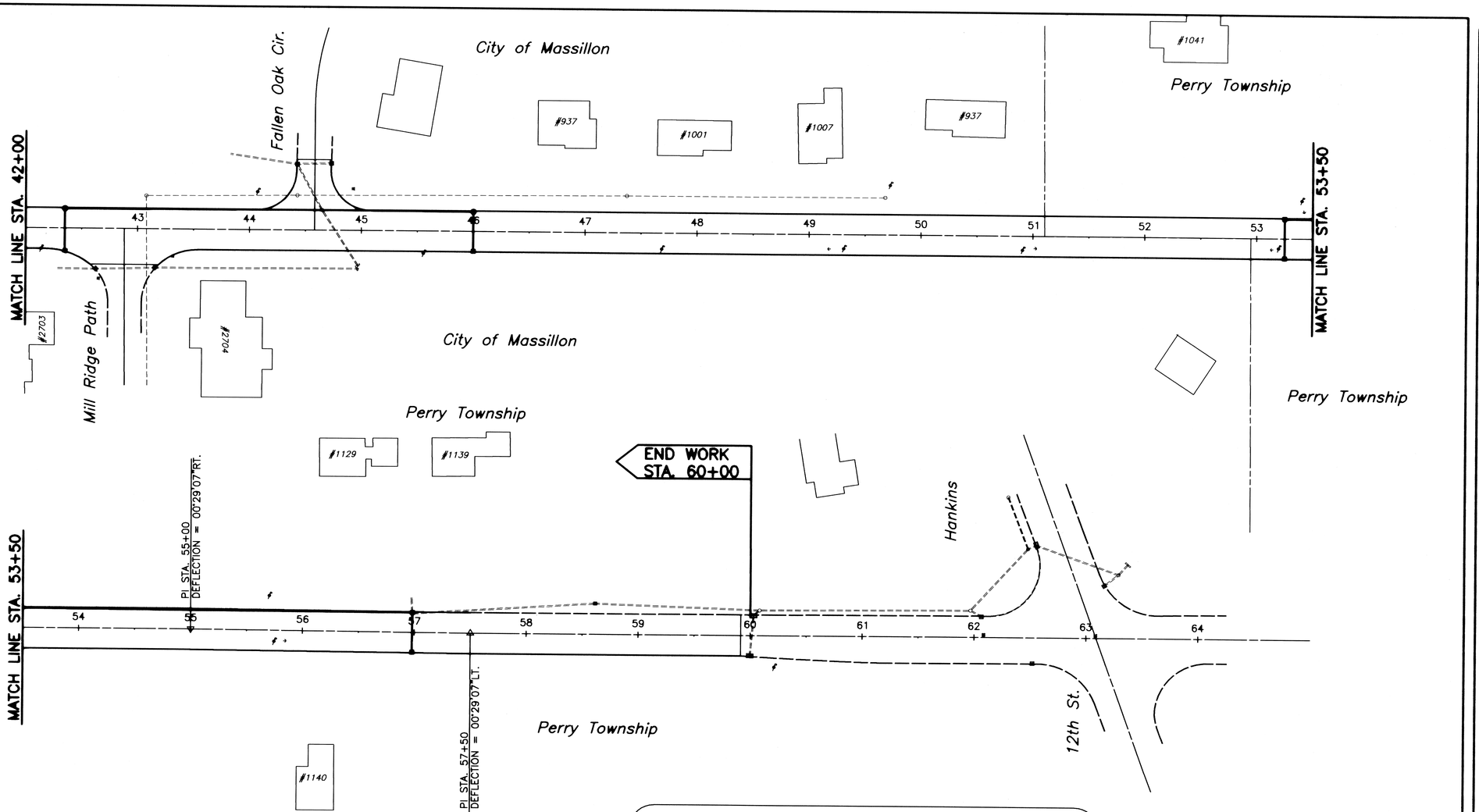
Massillon
Means More!

REVISIONS:

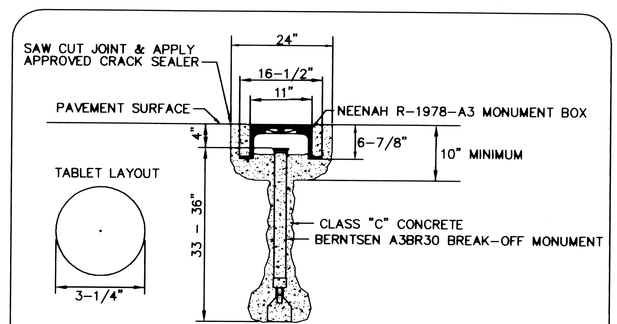
DATE	DESCRIPTION

FILE NAME: 05st0302

ACCOUNT NUMBER 05st03



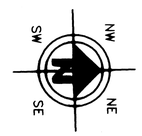
CONTROL DATA				
	STATION	NORTH	EAST	
POT	9+50	413392.935	2249633.079	
PI	12+16.33	413659.145	2249641.157	
PI	14+45.52	413888.119	2249651.107	
POT	18+00	414242.418	2249662.322	
POT	22+00	414642.218	2249674.978	
POT	26+00	415042.018	2249687.633	
POT	30+00	415441.818	2249700.288	
POT	36+00	416041.517	2249719.271	
PI	41+03.17	416544.435	2249735.191	
POT	45+00	416941.035	2249748.712	
POT	49+00	417340.803	2249762.342	
POT	53+00	417740.570	2249775.971	
PI	55+00	417940.454	2249782.785	
PI	57+50	418190.228	2249793.420	
POT	63+00	418739.918	2249812.160	
				BM ELEV.
I.P. FND.	14+45.52	413888.119	2249651.107	1143.80
I.P. FND	41+03.17	416544.435	2249735.191	1095.81
I.P. FND.	62+08.48, 2.38'LT	418648.525	2249806.658	1033.90
I.P. FND.	63+08.39, 2.43'LT.	418747.386	2249810.020	1028.28



STARK COUNTY ENGINEER
STANDARD SECTION CORNER
MONUMENT ASSEMBLY (ROADWAY)
JUNE, 2001
REVISED JANUARY, 2002

NOTE:

SET TWO NEW STANDARD SECTION CORNERS TO REESTABLISH EXISTING MONUMENTS DISTURBED APPROXIMATE STA, 14+45.52 AND STA. 4+03.17



50 25 0 50
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Sept., 2005

27th (Jackson Ave.) Widening

Schematic Plan Sta. 42+00 to Sta. 64+00
City of Massillon
Stark County, Ohio

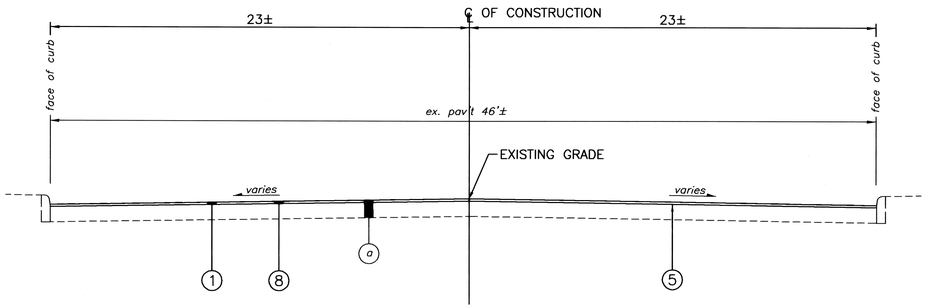
Francis H. Cicchinelli, Jr.
Mayor

Massillon Means More!

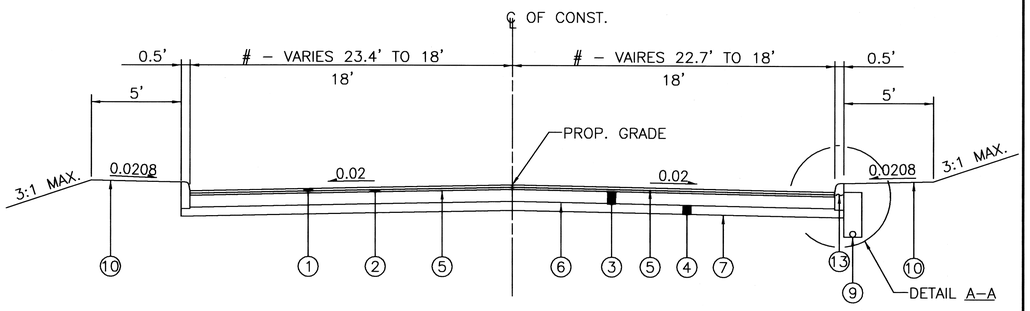
REVISIONS:	
DATE	DESCRIPTION

FILE NAME: 05st0303

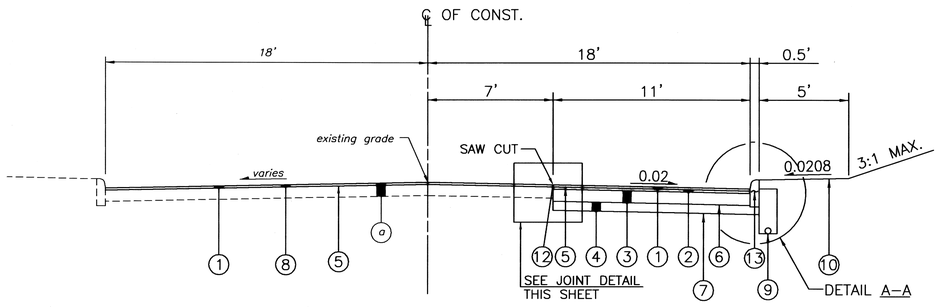
ACCOUNT NUMBER: 05st03



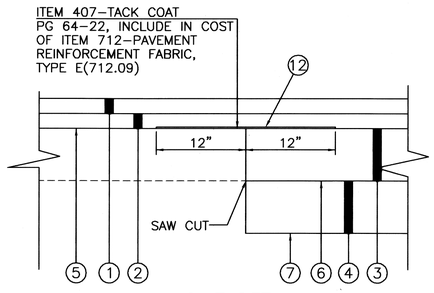
RESUFACING TYPICAL SECTION
STA. 10+30 TO STA. 12+50



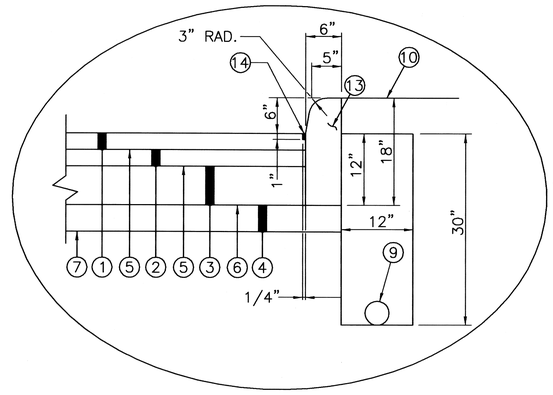
27th St. NE / JACKSON AVE NW PROPOSED TYPICAL SECTION
– STA. 12+50 TO STA. 14+00
STA. 14+00 TO STA. 57+50



27th St. NE / JACKSON AVE NW PROPOSED TYPICAL SECTION
STA. 57+50 TO STA. 59+91.71



JOINT DETAIL



DETAIL A–A

NOTE:

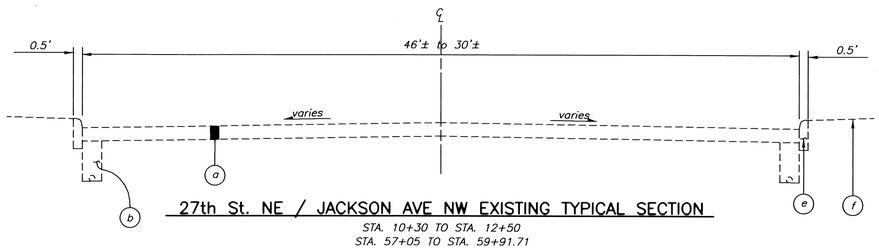
ALL JOINTS WITH EXISTING PAVEMENT SHALL RECIEVE ITEM 705.04 JOINT SEALER WORK AND MATERIAL SHALL BE INCLUDE IN COST OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG 70–22.

EXISTING LEGEND

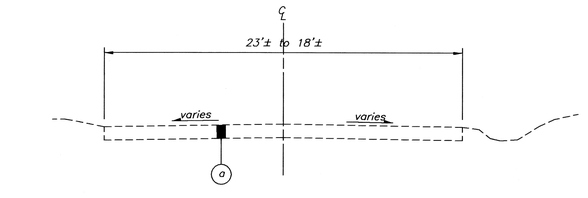
- (a) *variable thickness asphalt pavement*
- (b) *possible underdrain*
- (e) *existing curb*
- (f) *exist lawn*

PROPOSED LEGEND

1. – ITEM 448–1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64–22
2. – ITEM 448–1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG 64–22
3. – ITEM 301–8" ASPHALT CONCRETE BASE
4. – ITEM 304–6" AGGREGATE BASE
5. – ITEM 407–TACK COAT
6. – ITEM 408–PRIME COAT
7. – ITEM 204–SUBGRADE COMPACTION
8. – ITEM 254–1 1/2" PAVEMENT PLANING
9. – ITEM 605–4" SHALLOW PIPE UNDERDRAINS
10. – ITEM 659–SEEDING AND MULCHING
12. – ITEM 700–PAVEMENT REINFORCEMENT FABRIC, TYPE E(712.09)
13. – ITEM 609–6"x18" CAST IN PLACE CONCRETE CURB
14. – ITEM 705–HOT APPLIED JOINT SEALER(REQUIRED)



27th St. NE / JACKSON AVE NW EXISTING TYPICAL SECTION
STA. 10+30 TO STA. 12+50
STA. 57+05 TO STA. 59+91.71



27th St. NE / JACKSON AVE NW EXISTING TYPICAL SECTION
STA. 12+50 TO STA. 57+05

VERTICAL SCALE IN FEET
8
4
2
0

HORIZONTAL SCALE IN FEET
4 2 0 4

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: July, 2005	DATE: July, 2005

27th (Jackson Ave.) Widening

Typical Sections
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0304.DWG

ACCOUNT NUMBER
05st03

UTILITIES

LISTED BELOW ARE ALL KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

SBC
50 W.BOWERY, 6TH FLOOR
AKRON, OH 44308
800-384-8057

AQUA WATER
P.O. BOX 584
MASSILLON, OH 44648
(330) 833-4156

OHIO EDISON
STARK DIVISION
2600 S. ERIE ST.
MASSILLON, OH 44545
(330) 833-3141

MASSILLON CABLE TV
P.O. BOX 814
MASSILLON, OH 44648
(330) 833-4134

GREAT LAKES
104 6TH ST. S.W.
CANTON, OH 44702
(330) 456-2454

CITY OF MASSILLON
SANITARY SEWER
151 LINCOLN WAY EAST
MASSILLON, OH 44646
(330) 830-1722

AT&T COMMUNICATIONS
2535 E. 40TH AVE.
DENVER, CO 80205-3601
(800) 852-3786

DOMINION EAST OHIO GAS COMPANY
4725 SOUTHWAY ST. S.W.
CANTON, OH 44706
(330) 478-3142

NORTHEAST OHIO NATURAL
GAS CORP.
9081 S.R. 250
STRASBURG, OH 44680-9766
(330) 878-5589

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES 48 HOURS PRIOR TO WORK.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE SHOWN AT APPROXIMATE LOCATIONS AND WHERE OBTAINED AS REQUIRED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

OUPS - 1-800-362-2764
OGUPUPS - 1-800-925-0988

DATUM ELEVATION

ALL BENCHMARKS ARE BASED ON REFERENCE BENCHMARKS PROVIDED BY THE CITY OF MASSILLON

STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE CENTERLINE OF CONSTRUCTION AS SHOWN.

NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE AGENCIES LISTED BELOW AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

MASSILLON SAFETY SERVICE
330-830-1702

MASSILLON FIRE DEPARTMENT
330-833-1053

PERRY TOWNSHIP HALL
330-833-2141

NORTH LAWRANCE FIRE DEPT.
330-832-6347

TUSCARAWAS TOWNSHIP HALL
330-832-4337

JACKSON FIRE DEPARTMENT
330-834-3950

MASSILLON POLICE DEPARTMENT
330-830-1735

MASSILLON SCHOOL BUS GARAGE
330-830-1849

JACKSON TOWNSHIP HALL
330-832-7416

PERRY FIRE DEPARTMENT
330-833-3865

JACKSON POLICE DEPARTMENT
330-4834-360

JACKSON SCHOOL BUS GARAGE
330-830-8042

PERRY POLICE DEPARTMENT
330-478-5121

PERRY SCHOOL BUS GARAGE
330-477-1300

STARK COUNTY SHERIFF
330-430-3800

TUSCARAWAS SCHOOL BUS GARAGE
330-837-7805

SARTA
330-454-5333

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKES HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECT OR EXCAVATION. THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

QUANTITIES

QUANTITIES ARE INDICATED FOR COMPARISON OF BIDS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES BEFORE ORDERING MATERIALS. VARIATIONS FROM THE PLAN QUANTITIES SHALL BE APPROVED BY THE ENGINEER OR OWNER BEFORE MATERIALS ORDERS ARE PLACED. MATERIALS REJECTED DUE TO INCOMPATIBILITY BETWEEN ORDERED QUANTITIES AND FIELD CONDITIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SPECIFICATIONS & STANDARDS

ALL CONSTRUCTION TO BE CITY OF MASSILLON SPECIFICATIONS AND STANDARDS, THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND FOLLOW ALL OSHA AND ADA REGULATIONS AND REQUIREMENTS, SEDIMENT EROSION STANDARDS.

MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL SUPPLY A MAINTENANCE OF TRAFFIC PLAN TO THE CITY ENGINEER.

MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE CITY ENGINEER AND TOWNSHIP PRIOR TO ANY CONSTRUCTION

COMMENCING SAID APPROVED DETOUR SHALL BE FORWARDED TO THE LOCAL NEWSPAPER BY THE CONTRACTOR.

MATERIALS AND LABOR SHALL BE INCLUDED IN LUMP SUM BID.

ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC.

CONTRACTOR AVAILABILITY

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A 24 HOUR PHONE NUMBER WHERE THE CONTRACTOR SHALL BE AVAILABLE FOR EMERGENCIES.

PRESERVATION OF PRIVATE PROPERTY

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

PRESERVATION OF PROPERTY CORNERS, SURVEY MARKERS AND MONUMENTS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS ANY TYPE OF LAND MONUMENT. HE SHALL HAVE ALL LAND MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. HE SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY AN OHIO REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

CONDITIONS OF WORK

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT, STATE, COUNTY, AND CITY OF MASSILLON LAWS AND REGULATIONS. ALL WORK, AT ALL TIMES SHALL BE SUBJECT TO OBSERVATION BY THE OWNER AND/OR ENGINEER. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS AND OHIO EPA, AND STANDARDS OF THE CITY OF MASSILLON ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES TO THE PROJECT SITE. ADJACENT ROADS SHALL BE MAINTAINED AND KEPT CLEAN OF MUD AND OTHER DEBRIS THAT MAY BE CAUSED BY TRAFFIC EXITING THE WORK SITE. THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL FOLLOW THE MORE STRINGENT GUIDELINES OF THE CITY OF MISSION OR ODOT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES FOR A CONSTRUCTION OFFICE, EMPLOYEE PARKING, AND EMPLOYEE SANITARY FACILITIES. ON STREET PARKING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE FOR THE LAWFUL OFF-SITE DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE.

EXISTING DATA

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND BECOME THOROUGHLY FAMILARIZED WITH THE SITE PRIOR TO BID SUBMISSION.

EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE INDICATED IN APPROXIMATE LOCATION ON THE PLAN. INFORMATION SHOWN IS NOT GUARANTED TO BE CORRECT AND COMPLETE. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.

EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. SERVICE LATERALS ARE NOT SHOWN.

IT IS THE RESPONSIBILITY OF CONTRACTOR TO NOTIFY THE CITY, PRIOR TO BID OPENING NON-CONNFORMING OR CONFLICTING INFORMATION.

ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHILE LAYING THE SANITARY SEWER ACROSS THE DRIVE. THE TRENCH SHALL BE BACKFILLED AT THE END OF EACH WORK DAY TO PROVIDE ACCESS. THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CUTTING THIER DRIVEWAY.

PRESERVATION OF EXISTING UTILITY SERVICES

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE OR OTHER UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THAT CONTRACTORS EXPENSE.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED AND STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS TO BE COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE IS TO BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS. ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER PERMITTING SUCH AND HOLDING THE CITY HARMLESS.

RESTORATION

FOR SANITARY SEWER INSTALLED, TESTED, AND ACCEPTED UP TO MAY 15TH OF ANY CALENDER YEAR, RESTORATION SHALL BE COMPLETE BY JUNE 30th OF THAT YEAR. FOR INSTALLATION OF SANITARY SEWER TESTED AND ACCEPTED FROM MAY 15th TO SEPTEMBER 30th OF ANY CALENDER YEAR, RESTORATION SHALL BE COMPLETE BY NOVEMBER 15th OF THAT CALENDER YEAR. FOR SANITARY SEWER INSTALLED, TESTED, AND ACCEPTED AFTER NOVEMBER 15TH OF ANY CALENDER YEAR. RESTORATION SHALL BE COMPLETE BY MAY 15th OF THE NEXT CALENDER YEAR.

ALL SOIL AREAS DISTURBED BY THE CONTRACTOR SHALL BE TOPSOILED, SEEDED AND MULCHED. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM OF AFFECTED WORK. TOPSOIL, SEEDING AND MULCHING SHALL NOT BE A SEPERATE PAY ITEM. THIS INCLUDES BACKFILLING, SEEDING AND MULCHING ALONG THE EDGE OF ALL PAVEMENT RESTORATION.

PAVEMENT CROSSINGS WILL RECEIVE TYPE C PAVEMENT REPLACEMENT WITH FULL WIDTH PAVEMANT OVERLAY.

CONTRACTOR TO REPLACE ALL PAVEMENT MARKINGS. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT

CONTRACTOR TO USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL ENDS AND INTERSECTIONS.

ALL TRENCHES IN ROAD RIGHT OF WAY WILL RECEIVE FULL DEPTH PREMIUM GRANULAR BACKFILL.

REMOVAL AND RELOCATION OF EXISTING UTILITIES

THE CONTRACTOR IS REQUIRED TO COOPERATE WITH EACH RESPECTIVE UTILITY OWNER FOR THE REMOVAL AND RELOCATION OF ANY AND ALL UTILITIES THAT CREATE A CONFLICT WITH CONSTRUCTION OF THE PROJECT.

ITEM 203SPEC. ROADWAY REMOVAL

ALL EXISTING CONCRETE INCLUDING CURBS, DRIVES, CULVERTS, AND BASE ETC. WITHIN WORK LIMITS SHALL BE REMOVED ALL EXISTING PAVEMENT REMOVAL OUTSIDE OF NEW PAVEMENT AREA SHALL BE GRADED, TOP SOIL AND SEEDED TO THE SATISFACTION OF THE CITY.

ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER ITEM 203 ROADWAY REMOVAL, LUMP SUM BID

ITEM 623, CONSTRUCTION STAKING

CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT AND AS-BUILT DRAWINGS.
THIS WORK IS TO BE PERFORMED UNDER ITEM 623 CONSTRUCTION STAKING.

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: April, 2005	DATE: April, 2005

27th (Jackson Ave.) Widening

General Notes
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0305.DWG

ACCOUNT NUMBER
05st03

MANHOLES, CATCH BASINS, INLETS AND PIPES REMOVED OR ABANDONED

ALL CASTING, PRE-CAST STRUCTURES AND PIPES SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY THE CITY. CONTACT THE CITY OF MASSILLON STREET SUPERINTENDENT - MARK LIGHTFOOT AT 330-833-5746. ANY UNWANTED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD OF TACK COAT FOR EXTISMATING PURPOSES ONLY.

ITEM 408, BITUMINOUS PRIME COAT

THE RATE OF APPLICATION OF THE 408 PRIME COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.40 GALLONS PER SQUARE YARD OF PRIME COAT FOR ESTIMATING PURPOSES ONLY.

CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRDE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 604, CATCH BASIN TYPE 2-2-B

CATCH BASINS SHALL BE CONSTRUCTED IN COMFORMANCE WITH ITEM 604 EXCEPT THAT THEY SHALL BE A LINDSAY PRE-CAST STANDARD SQUARE CATCH BASIN TYPE 2-2-B OR APPROVED EQUAL. THE GRATE SHALL BE EAST JORDAN NO. 5110 TYPE M2 OR APPROVED EQUAL

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS WORK SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH LEAN GROUT, ITEM 613 SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER. SO THAT, AFTER SETTLEMENT, AT LEAT 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF THE FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF LINEAR FEET MEASURE ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED.

THE LENGTH MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER LINEAR FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 659, TOPSOIL, SEEDING AND MULCHING

ITEM 659 SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS DISTURBED DURING CONSTRUCTION. SUCH AS SPECIFIED IN ITEM 659 AND IS NOT LIMITED TO JUST TOPSOIL, SEEDING AND MULCHING.
THE CITY SHALL APPROVE SEED MIX PRIOR TO CONSTRUCTION TO BE USED THROUGH OUT CONSTRUCTION LIMITS. PROPOSED MIX SHALL BE SUBMITTED IN WRITING PRIOR TO ANY CONSTRUCTION. ALL ABOVE SAID WORK SHALL BE PAID FOR UNDER

ITEM 659, SEEDING AND MULCHING LUMP SUM BID

ITEM 201spec. - CLEARING AND GRUBBING

THIS WORK SHALL CONFORM TO ODOT SPEC. ITEM 201 CLEARING AND GRUBBING EXCEPT AS LISTED BELOW:

SHALL INCLUDE ALL TREE AND BRUSH REMOVAL REGARDLESS OF SIZE. WITHIN CLEARING LIMITS UNLESS OTHERWISE DIRECTED BY THE CITY OR COUNTY INSPECTOR. CLEARING AND GRUBBING LIMITS SHALL BE 27'(FEET) EACH SIDE OF THE CENTERLINE OF CONSTRUCTION. FROM BEGIN WORK TO END WORK.

ITEM 651, TOPSOIL STOCKPILED

THE MATERIAL FOR THIS ITEM SHALL BE OBTAINED FROM AREAS WITHIN THE PROPOSED RIGHT-OF-WAY.

PROVISION OF THIS 651 ITEM SHALL NOT BE CONSTRUCTED AS A WAIVER OF THE PROVISIONS OF 201.4 SOD AND INCIDENTAL TOPSOIL REMOVED ELSEWHERE ON THIS PROJECT FOR SALVAGE, FOR USE AS DESCRIBED IN 203.04(e). SHALL BE INCLUDED IN THE CONTRACT PRICE FOR VARIOUS 203 ITEMS.

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 653 TOPSOIL FURNISHED AND PLACED

BULK HEAD

BULK HEADS MAY BE REQUIRED DO TO THE REMOVAL OF AN EXISTING PIPE OR STRUCTURE CONTRACTOR SHALL PLACE BULK HEADS AS DIRECTED BY ENGINEER.

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 202 PIPE REMOVED

DOWN SPOUTS

ALL DOWN SPOUTS UNABLE TO BE CONNECTED TO THE STORM LATERAL SHALL BE PUT THROUGH THE CURB AS PER ENGINEER'S DIRECTION.

CURB OPENING SHALL NOT GREATER THAN A 3 1/2" DIAMETER.

THE WORK ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 609.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY OF MASSILLON AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS 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 FEILD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BT THE CITY OF MASSILLON.

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

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

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

WORKING AREA

NO EXCAVATION WITH SIDE SLOPES STEEPER THAN 2:1 AND/OR DEEPER THAN 2', OPEN CASTINGS AND PIPES SHALL BE LEFT EXPOSED WHEN THE SITE IS UNATTENDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SECURE ALL SUCH EXCAVATIONS, OPEN CASTINGS AND PIPES AGAINST UNAUTHORIZED ENTRY COVERING WITH STEEL PLATES, TEMPORARY BACKFILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK.

ITEM 207SPEC, EROSION CONTROL

THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORM WATER POLLUTION CONTROL PLAN TO THE CITY OF MASSILLON ENGINEER TO BE FORWARDED TO OBTAIN A PERMIT. THE STORM WATER POLLUTION CONTROL PLAN SHALL AN EFFECTIVE PLAN, SAID PLAN MUST COMPLY W/ THE OHIO DEPARTMENT OF NATURAL RESOURCES. THE OHIO EVIROMETAL SOIL AND WATER CONSERVATION DISTRICT AND THE CITY OF MASSILLON BEST MANAGEMENT PRACTICES.

BECAUSE OF THE LINEAR NATURE OF THIS PROJECT. THE PLAN WILL VARY DAILY BASED UPON THE CONTRACTORS MEANS AND METHODS OF CONSTRUCTION. THE CITY AND ALL LOCAL, STATE AND FEDERAL AGENCIES WILL MONITOR THE CONSTRUCTION SITE AND THE CHOSEN METHOD OF SOIL EROSION CONTROL. THE CONTRACTOR WILL BE HELD TO FOLLOWING THE IMPLEMENTATION AS NECESSARY TO PROTECT THE INTEGRITY OF THE STORM SEWERS AND THE WATER'S OF THE STATE OF OHIO.

BELOW IS A NUMBER OF MISC. ITEMS WHICH MAYBE USED BUT NOT LIMITED TO.

ITEM 870 - COMMERCIAL FERTILIZER
ITEM 870 - REPAIR SEEDING AND MULCHING
ITEM 870 - WATER

ITEM 877 - TEMPORARY SEEDING AND MULCHING
ITEM 877 - TEMPORARY FILTER FABRIC FENCE
ITEM 877 - TEMPORARY INLET PROTECTION

ALL COSTS OF THE ABOVE SAID WORK SHALL BE INCLUDED IN ITEM 207SPEC EROSION CONTROL.

REMOVAL OF TRAFFIC CONTROL DEVICES AND PRECAST STRUCTURES

ALL TRAFFIC CONTROL DEVICES AND PRE-CAST STRUCTURES WITH CASTINGS SHALL BE REMOVED IN A WAY NOT TO DAMAGE, AT THE TIME OF REMOVAL THE INSPECTOR WILL MARK EACH SALVAGABLE STRUCTURE. SAID ITEMS SHALL BE STORED UNTIL THEY CAN BE TRANSPORTED TO ITS RESPECTIVE OWNER BY THE CONTRACTOR. THE CONTRACTOR MUST COORDINATE SAID DELIVERIES WITH MARK LIGHTFOOT AT MASSILLON (330)833-5746 AND JOHN MASACKO AT PERRY TOWNSHIP (330)833-2141.

ALL OF THE ABOVE SAID WORK SHALL BE INCLUDED IN PERTINENT 202 ITEM.

ITEM 700 - PAVEMENT REINFORCEMENT FABRIC, TYPE E (712.09)

FABRIC SHALL BE PLACED ALONG ANY WIDING OR BASE REPAIR JOINT. FABRIC SHALL BE A CRACK RETARDING GEO-COMPOSITE MEMBRANE (PAVEPREP OR APPROVED EQUAL). WIDTH OF FABRIC SHALL BE A MINIMUM OF 24" PLACED CENTERED ALONG JOINT. INSTALLATION OF FABRIC SHALL BE PER MANUFACTURE SPECIFICATIONS.

ALL COSTS INCLUDING MATERIALS AND INSTALLATION SHALL BE PAID FOR UNDER ITEM 690Spec. - FABRIC PER L.F.

FINAL APPROVAL

A VIDEO TAPE WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE CITY PRIOR TO THE PROJECT COMMENCING. AFTER THE FINAL INVOICE IS RECEIVED THE SITE WILL BE VIDEO TAPED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWING SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE CITY IN A CLEAR AND LEDGABLE MANNER PRIOR TO FINAL INVOICE.

COST OF THIS WORK SHALL BE INCLUDED IN ITEM 623 CONSTRUCTION STAKING

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EACH LOT SHALL BE SUPPLIED WITH A SINGLE 10" STORM LATERAL THAT WILL BE INSTALLED FROM THE MAIN TO THE PROPERTY LINE, SAID STORM LATERAL SHALL BE CONNECTED TO FOUNDATION DRAINS, SUMP DRAIN AND WHEN POSSIBLE AS PER ENGINEER'S DIRECTION THE DOWN SPOUT WILL BE CONNECTED.

THE FOLLOWING WORK SHALL BE PAID FOR UNDER ITEM 603 10" STORM LATERAL.

ITEM 604, MASS CI

CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE GRATES SHALL BE NEENAH NO. R-4859-C WITH NO DUMP NO WASTE OR EAST JORDON NO. 7350 WITH FISH BACK OR APPROVED EQUALS.

ITEM 609, CAST IN PLACE 6"X18" CONCRETE CURB

GRANULAR BEDDING, BACKFILLING AND CONCRETE CURB PLACEMENT ALONG WITH ALL APPURTENANCES IS TO BE INCLUDED IN ITEM 609. THIS SHALL ALSO INCLUDE THE REPLACEMENT AND REMOVAL OF ALL WALK EXTENTSION DISTURB DO TO CURB PLACEMENT

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: April, 2005	DATE: April, 2005

27th (Jackson Ave.) Widing
General Notes
City of Massilon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0306.DWG

ACCOUNT NUMBER 05st03

SHEET NUMBER																		ITEM	GRAND TOTAL	UNIT	DESCRIPTION
3	4	5	6	9	10	11	12	47	52	57	58										
																					ROADWAY
			LUMP															201spec	LUMP	LUMP	CLEARING AND GRUBBING
				14	5													202	19	EACH	CATCH BASIN REMOVED
				2280	1094													202	3374	LF	PIPE REMOVED
					1													202	1	EACH	MANHOLE REMOVED
					262													202	262	LF	GUARDRAIL REMOVED
				1														202	1	EACH	STRUCTURE REMOVED
					135													202	135	LF	FENCE REMOVED
					25													202SPEC	25	LF	DITCH CLEAN OUT, AS DIRECTED
								9209										203	9209	CY	EXCAVATION INCLUDING ROADWAY
								1212										203	1212	CY	EMBANKMENT NOT INCLUDING EXCAVATION
		LUMP																203SPEC	LUMP	LUMP	ROADWAY REMOVAL
	LUMP																	204	LUMP	LUMP	SUBGRADE COMPACTION AND PROOF ROLLING
							30											600SPEC	30	EACH	MAILBOX
2																		604SPEC	2	EACH	STANDARD SECTION CORNER MONUMENT ASSEMBLY, AS PER PLAN
				141														608	141	SF	4" CONCRETE WALK
				2														608	2	EACH	CURB RAMP TYPE A
				1														608	1	EACH	CURB RAMP TYPE B
				1														608	1	EACH	CURB RAMP TYPE D
			LUMP															632	LUMP	LUMP	TRAFFIC CONTROL DEVICES REMOVED OR RELOCATED
																					EROSION CONTROL
			LUMP															207SPEC	LUMP	LUMP	EROSION CONTROL
					10													601	10	CY	ROCK CHANNEL PROTECTION W/ FILTER
			LUMP															659	LUMP	LUMP	TOPSOIL, SEEDING AND MULCHING
																					DRAINAGE
																		603	600	LF	6" TYPE B CONDUIT, 707.33
				776	1007													603	1783	LF	12" TYPE B CONDUIT, 707.33
				1546	275													603	1821	LF	18" TYPE B CONDUIT, 707.33
				195														603	195	LF	24" TYPE B CONDUIT, 707.33
				289														603	289	LF	36" TYPE B CONDUIT, 707.33
				11	3													603	14	EACH	MANHOLE TYPE 3 MOD.
				1	1													603	2	EACH	MANHOLE TYPE 3, W/ MASSILLON MANHOLE CASTING SET
				10	8													604	18	EACH	CATCH BASIN TYPE MASS CI-1
				3							6							604	9	EACH	YARD DRAIN
					1													604	1	EACH	CATCH BASIN REHABILITATION
				6														604	6	EACH	CATCH BASIN, TYPE 2-2-B
							9400											605	9400	LF	4" SHALLOW PIPE UNDERDRAINS
																					PAVEMENT
				1172	735													254	1907	SY	1 1/2" PAVEMENT PLANING
						5100												301	5100	CY	ASPHALT CONCRETE BASE
						3400												304	3400	CY	AGGREGATE BASE
						1615												407	1615	GAL	TACK COAT
						8071												408	8071	GAL	PRIME COAT
						850												448	850	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
						850												448	850	CY	ASPHALT CONCRETE SUFACE COURSE, TYPE 1, PG 64-22
									1746									452SPEC	1746	SY	CONCRETE DRIVE
									2026									452SPEC	2026	SY	ASPHALT DRIVE
							9400											609	9400	LF	CAST IN PLACE CONCRETE CURB - 6"X18"
					282													690SPEC	282	LF	FABRIC
																		705	LUMP	LUMP	PREFORMED FILLERS AND JOINT SEALER
																					SANITARY
				5	1													604	6	EACH	MASS. MANHOLE REHABILITATION (SANITARY)

DRAWN BY: JK | CHECKED BY: SDH

DATE: Sept., 2004 | DATE: Sept, 2004

27th (Jackson Ave.) Widening

General Summary

City of Massillon

Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0307.DWG

ACCOUNT NUMBER: 05st03

SHEET NUMBER																	ITEM	GRAND TOTAL	UNIT	DESCRIPTION
3	4	5	6	9	10	11	12	47	52	57	58	59	63							TRAFFIC CONTROL
													4				630	4	EACH	POST No. 2, TYPE S
													25				630	25	EACH	POST No. 3, TYPE S
													8				630	8	EACH	SIGN R-1-30
													4				630	4	EACH	SIGN R-10-24
													1				630	1	EACH	SIGN R-31A-36
													8				630	8	EACH	SIGN R-48-24
													2				630	2	EACH	SIGN R-49-24
													2				630	2	EACH	SIGN R-51-24
													10				630	10	EACH	SIGN D-8G
													6				630	6	EACH	SIGN D-8BSPEC
													1				630	1	EACH	SIGN N-15-24R
													1				630	1	EACH	SIGN N-15-24L
													2				630	2	EACH	SIGN N-29-24
													1				630	1	EACH	SIGN W-47-36
													1				630	1	EACH	SIGN W-65-36
												0.11					642	0.11	MILE	2-DIRECTION, NO-PASSING MARKING YELLOW 4"
												1.57					642	1.57	MILE	1-DIRECTION, NO-PASSING MARKING YELLOW 4"
												31					644	31	LF	THERMOPLASTIC 24" STOP LINE
												190					644	190	LF	THERMOPLASTIC WIDE SOLID CHANNELIZING LINE 8"
												176					644	176	LF	THERMOPLASTIC SOLID WHITE CROSS WALK 6' APART 8"
												44					644	44	EACH	THERMOPLASTIC ARROWS
												2					644	2	EACH	THERMOPLASTIC WORDS
																	614SPEC	LUMP	LUMP	MAINTENANCE OF TRAFFIC
		LUMP															614	LUMP	LUMP	MAINTAINING TRAFFIC
																	619	LUMP	LUMP	FEILD OFFICE, TYPE C
		LUMP															623	LUMP	LUMP	CONSTRUCTION STAKING
																	624	LUMP	LUMP	MOBILIZATION

DRAWN BY: JK | CHECKED BY: SDH

DATE: Sept., 2004 | DATE: Sept., 2004

27th (Jackson Ave.) Widening

General Summary

City of Massillon

Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0308.DWG

ACCOUNT NUMBER: 05st03

SHT No.	REF. No.	SIDE	STATION FROM	STATION TO	202 CATCH BASIN REMOVED EACH	202 PIPE REMOVED EACH	202 MANHOLE REMOVED EACH	202 STRUCTURE REMOVED EACH	254 1 1/2" PAVEMENT PLANNING S.Y.	603 12" TYPE B CONDUIT L.F.	603 18" TYPE B CONDUIT L.F.	603 24" TYPE B CONDUIT L.F.	603 36" TYPE B CONDUIT L.F.	604 MANHOLE REHAB. (SANITARY) EACH	604 MANHOLE TYPE 3 (DRAINAGE) EACH	604 MANHOLE TYPE 3 (MOD.) EACH	604 YARD DRAIN EACH	604 CATCH BASIN TYPE MASSCI-1 EACH	604 CATCH BASIN TYPE 2-2-B EACH	608 CONRETE WALK 4" THICK S.F.	608 CURB RAMPS TYPE A (SPEC.) EACH	608 CURB RAMPS TYPE C (SPEC.) EACH	608 CURB RAMPS TYPE D (SPEC.) EACH
14	AM-1	RT.	11+32											1									
14	CR-1	RT.	9+56.54																				1
14	CR-2	LT.	9+65.90																			1	
14	CR-3	LT.	10+57.17																		1		
14	CR-4	RT.	10+30.18																		1		
14	SW-1	LT.	10+59																	61			
14	PP-1	RT/LT	10+31.04	12+50					1172														
15	AM-2	RT.	12+95											1									
15	AM-3	RT.	14+46											1									
15	SW-2	RT.	13+60																	20			
15	SW-3	RT.	14+11																	20			
15	CB-8	RT.	14+80															1					
15	CB-9	RT.	14+20															1					
15	DM-10	LT.	14+54													1							
15	DP-18	LT.	14+80	14+54						44													
15	DP-19	RT./LT.	14+20	14+54						50													
15	DP-17	LT.	14+54	18+30							376												
15	R-1	RT./LT.	14+49	14+49	1	70																	
15	R-2	RT.	14+68					1															
16	AM-4	RT.	17+88											1									
16	CB-10	LT.	17+77																1				
16	CB-12	LT.	18+13																1				
16	YD-2	RT./LT.	19+95														1						
16	CB-7	RT.	18+30															1					
16	SW-4	RT.	16+95																	20			
16	DM-9	LT.	18+30													1							
16	DP-15	LT.	18+30	21+10							280												
16	DP-16	RT./LT.	18+30	18+30						36													
16	DP-30	LT.	17+77	18+13						37													
16	DP-31	LT.	18+13	18+30						31													
17	AM-5	RT.	18+73											1									
17	CB-6	RT.	21+10															1					
17	CB-16	LT	21+33																1				
17	CB-22	LT	21+67																1				
17	DM-8	LT.	21+10													1							
17	DM-14	LT.	21+90													1							
17	DP-13	RT.	21+10	24+68							278												
17	DP-14	RT.	21+10	21+10						36													
17	DP-32	LT.	21+33	21+70						34													
17	DP-33	LT.	21+67	21+90						32													
17	DP-34	LT.	21+10	21+90							80												
17	SW-5	RT.	22+90																	20			
17	R-3	RT	20+14	20+64		50																	
18	CB-5	RT.	24+68															1					
18	CB-4	RT.	27+25															1					
18	CB-23	LT	25+63																1				
18	CB-24	LT	25+93																1				
18	DM-7	LT.	24+68													1							
18	DM-6	LT.	24+68													1							
18	DM-15	LT.	26+18													1							
18	DP-9	LT.	27+25	30+00							275												
18	DP-10	RT./LT.	27+25	27+25						36													
18	DP-11	LT.	26+18	27+25							107												
18	DP-12	RT./LT.	24+68	24+68						36													
18	DP-35	LT.	25+63	25+93						30													
18	DP-36	LT.	25+93	26+18						34													
18	DP-37	LT.	24+68	26+18							150												
18	R-4	LT.	25+62	27+08	1	176																	
18	R-5	LT.	27+08	28+50	1	142																	
18	R-6	RT.	24+57	25+47	1	90																	
18	R-7	RT.	25+47	26+50	1	114																	
18	R-8	RT.	26+50	27+59	1	108																	
18	R-9	RT.	27+59	28+50	1	92																	
18	YD-1	RT./LT.	25+46														1						
19	CB-3	RT.	30+00															1					
19	DM-2	LT.	31+64.85													1							
19	DM-4	LT.	31+95													1							
19	DM-5	LT.	30+00													1							
19	DP-6	LT.	31+95	33+71									176										
19	DP-7	LT.	30+00	31+95								195											
19	DP-8	RT./LT.	30+00	30+00						36													
19	DP-20	LT.	31+64.85	31+95									54										
19	YD-3	RT./LT.	30+00														1						
19	R-10	LT.	28+50	29+93		143																	
19	R-11	LT.	29+93	31+75	1	183																	
19	R-12	LT.	31+64	31+75	1	39																	
19	R-13	LT.	31+75	32+73	1	99																	
19	R-14	LT.	32+73	33+00	1	28																	
19	R-15	RT.	28+50	28+74		24																	
19	R-16	RT.	28+74	33+00	1	427																	
20	CB-1	RT.	36+03															1					
20	CB-2	RT.	33+71															1					
20	CB-11	LT.	36+03															1					
20	DM-3	LT.	33+71													1							
20	MH-1	RT.	34+13.88												1								
20	DP-1	RT./LT.	34+13.88	33+71									59										
20	DP-2	LT.	33+71	36+03						232													
20	DP-3	RT./LT.	36+03	36+03						36													
20	DP-5	RT./LT.	33+71	33+71						36													
20	R-17	LT.	33+00	33+87		87																	
20	R-18	LT.	34+62	34+84		22																	
20	R-19	LT.	35+08	35+33		25																	
20	R-20	LT.	33+87	35+98		202																	
20	R-21	RT./LT.	33+87	31+14	2	45																	
20	R-22	RT.	33+00	34+14		114																	
TOTALS CARRIED TO GENERAL SUMMARY					14	2280	0	1	1172	776	1546	195	289	5	1	11	3	10	6	141	2	1	1

FILE NAME: 05st0309.DWG
ACCOUNT NUMBER 05st03

DATE	REVISIONS: DESCRIPTION

Means Metre
Francis H. Cucchiella, Jr.

27th (Jackson Ave.) Widening

Sub Summary
City of Massillon
Stark County, Ohio

DRAWN BY: FPW
DATE: May 27, 2003
CHECKED BY: SDH
DATE: June 11, 2003

SHT No.	REF. No.	SIDE	STATION FROM	STATION TO	202 CATCH BASIN REMOVED	202 PIPE REMOVED	202 MANHOLE REMOVED	202 GUARDRAIL REMOVED	202 FENCE REMOVED	603 12" TYPE B CONDUIT	603 18" TYPE B CONDUIT	604 MANHOLE REHAB. (SANITARY)	604 MANHOLE TYPE 3 (DRAINAGE)	604 MANHOLE TYPE 3 (MOD.)	604 CATCH BASIN TYPE MASSCI-1	604 CATCH BASIN TYPE 2-2-B	604 CATCH BASIN REHAB.	608 CONRETE WALK 4" THICK	601 ROCK CHANNEL PROTECTION	202spec DITCH CLEAN OUT	690spec FABRIC	254 1 1/2" PAVEMENT PLANNING
					EACH	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	EACH	EACH	S.F.	C.Y.	L.F.	L.F.	S.Y.
21	CB-13	LT.	40+00												1							
21	CB-14	RT.	40+00												1							
21	DP-22	LT.	40+00	43+26						326												
21	DP-23	RT./LT.	40+00	40+00						36												
21	R-23	LT.	37+18	37+46		29																
21	R-24	LT.	39+09	41+00	1	192																
22	AM-6	LT.	44+43									1										
22	CB-17	LT.	44+72.62												1							
22	DC-1	RT.	45+00																	25		
22	DM-11	LT.	43+26											1								
22	DM-13	LT.	44+42.22											1								
22	DP-21	LT.	43+26	44+64.43							139											
22	DP-24	LT.	44+64.63	46+00							136											
22	MH-2	LT.	44+64.63										1									
22	RP-1	RT.	45+00																10			
22	R-25	LT.	43+75	44+65		90	1															
22	R-26	LT.	44+73		1																	
22	R-27	LT.	44+43		1																	
22	R-28	LT.	44+65	45+50		86																
22	R-34	LT.	41+01	42+63				162														
22	R-35	LT.	42+78	43+72				100														
23	DM-12	LT.	46+00											1								
23	CB-15	RT.	46+00												1							
23	DP-25	RT./LT.	46+00	46+00						36												
23	R-29	LT.	45+50	47+14		164																
23	R-30	LT.	48+36	48+56		20																
23	R-31	LT.	49+33	49+50		17																
24	CB-19	LT.	53+25												1							
24	CB-20	RT.	53+25												1							
24	DP-29	RT./LT.	53+25	53+25						36												
24	R-32	LT.	49+50	49+53		3																
24	R-33	LT.	51+00	51+50		50																
24	R-36	RT.	52+95						11													
25	CB-18	RT.	56+98												1							
25	CB-21	LT.	56+98												1							
25	DP-26	LT.	56+98	58+61.52						164												
25	DP-27	RT./LT.	56+98	56+98						36												
25	DP-28	LT.	53+25	56+98						373												
25	F-1	RT.	57+50	58+00																	77	
25	PP-2	RT./LT.	57+50	60+00																		735
25	R-37	LT.	54+20	56+98	1	278																
25	R-38	LT.	56+98	58+00	1	103																
25	R-39	RT.	54+46	55+10					124													
26	F-2	RT.	58+00	59+93																	205	
26	RD-1	LT.	58+61.52														1					
26	R-40	LT	58+00	58+62		62																
TOTALS CARRIED TO GENERAL SUMMARY					5	1094	1	262	135	1007	275	1	1	3	8	0	1	0	10	25	282	735

10 / 63

FILE NAME: 05st0310.DWG

ACCOUNT NUMBER: 05st03

REVISIONS: DESCRIPTION | DATE

Massillon Means More!

Francis H. Cicchinelli, Jr.

27th (Jackson Ave.) Widening

Sub Summary

City of Massillon
Stark County, Ohio

DATE: May 27, 2003 — DRAWN BY: FPW

DATE: June 11, 2003 — CHECKED BY: SDH

ITEM 301 ASPHALT CONCRETE BASE

(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(46.1+36) 1/2] (9/12) (1/27)	171.04 CU YD
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (36) (9/12) (1/27)	4350.00 CU YD
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(42+36) 1/2] (9/12) (1/27)	113.75 CU YD
(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (11) (9/12) (1/27)	73.86 CU YD
(27th / Jackson and Bailey) (634.16) (9/12) (1/27)	17.62 CU YD
(Sunmont) (1602.87) (9/12) (1/27)	44.52 CU YD
(Oakview) (1105.15) (9/12) (1/27)	30.70 CU YD
(Sundale) (882.13) (9/12) (1/27)	24.50 CU YD
(Tanglewood) (2337.14) (9/12) (1/27)	64.92 CU YD
(Elmbreeze) (2337.14) (9/12) (1/27)	64.92 CU YD
(Mill Ridge Path) (1209.03) (9/12) (1/27)	33.58 CU YD
(Fallen Oak) (1957.90) (9/12) (1/27)	54.39 CU YD
TOTAL ITEM 301 =	5043.80 CU YD
USED:	5100 CU YD

ITEM 304 AGGREGATE BASE

(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(48.1+38) 1/2] (6/12) (1/27)	119.58 CU YD
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (38) (6/12) (1/27)	2900 CU YD
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(44+38) 1/2] (6/12) (1/27)	79.72 CU YD
(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (12) (6/12) (1/27)	49.24 CU YD
(27th / Jackson and Bailey) (634.16) (6/12) (1/27)	11.74 CU YD
(Sunmont) (1602.87) (6/12) (1/27)	29.68 CU YD
(Oakview) (1105.15) (6/12) (1/27)	20.47 CU YD
(Sundale) (882.13) (6/12) (1/27)	16.34 CU YD
(Tanglewood) (2337.14) (6/12) (1/27)	43.28 CU YD
(Elmbreeze) (2337.14) (6/12) (1/27)	43.28 CU YD
(Mill Ridge Path) (1209.03) (6/12) (1/27)	22.39 CU YD
(Fallen Oak) (1957.90) (6/12) (1/27)	36.26 CU YD
TOTAL ITEM 304 =	3371.98 CU YD
USED:	3400 CU YD

ITEM 407 TACK COAT

(27th / Jackson Sta. 10+30 to Sta. 12+50) (10583.16) (1/9) (0.08)	94.07 GAL.
(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(46.1+36) 1/2] (1/9) (0.08)	54.73 GAL.
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (36) (1/9) (0.08)	1392.00 GAL.
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(42+36) 1/2] (1/9) (0.08)	36.40 GAL.

(Continue Item 407 Tack Coat)

(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (11) (1/9) (0.08)	23.63 GAL.
(27th / Jackson and Bailey) (634.16) (1/9) (0.08)	5.64 GAL.
(Sunmont) (1602.87) (1/9) (0.08)	14.25 GAL.
(Oakview) (1105.15) (1/9) (0.08)	9.82 GAL.
(Sundale) (882.13) (1/9) (0.08)	7.84 GAL.
(Tanglewood) (2337.14) (1/9) (0.08)	20.77 GAL.
(Elmbreeze) (2337.14) (1/9) (0.08)	20.77 GAL.
(Mill Ridge Path) (1209.03) (1/9) (0.08)	10.75 GAL.
(Fallen Oak) (1957.90) (1/9) (0.08)	17.40 GAL.
TOTAL ITEM 407 =	1614.02 Gal.
USED:	1615 Gal.

ITEM 408 PRIME COAT

(27th / Jackson Sta. 10+30 to Sta. 12+50) (10583.16) (1/9) (0.40)	470.36 GAL.
(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(46.1+36) 1/2] (1/9) (0.40)	273.67 GAL.
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (36) (1/9) (0.40)	6960.00 GAL.
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(42+36) 1/2] (1/9) (0.40)	182.00 GAL.
(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (11) (1/9) (0.40)	118.17 GAL.
(27th / Jackson and Bailey) (634.16) (1/9) (0.40)	28.18 GAL.
(Sunmont) (1602.87) (1/9) (0.40)	71.24 GAL.
(Oakview) (1105.15) (1/9) (0.40)	49.12 GAL.
(Sundale) (882.13) (1/9) (0.40)	39.21 GAL.
(Tanglewood) (2337.14) (1/9) (0.40)	103.87 GAL.
(Elmbreeze) (2337.14) (1/9) (0.40)	103.87 GAL.
(Mill Ridge Path) (1209.03) (1/9) (0.40)	53.73 GAL.
(Fallen Oak) (1957.90) (1/9) (0.40)	87.02 GAL.
TOTAL ITEM 408 =	8070.08 Gal.
USED:	8071 Gal.

ITEM 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1

(27th / Jackson Sta. 10+30 to Sta. 12+50) (10583.16) (0.125) (1/27)	49 CU YD
(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(46.1+36) 1/2] (0.125) (1/27)	28.51 CU YD
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (36) (0.125) (1/27)	725 CU YD
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(42+36) 1/2] (0.125) (1/27)	18.96 CU YD
(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (11) (0.125) (1/27)	12.31 CU YD
(27th / Jackson and Bailey) (634.16) (0.125) (1/27)	2.94 CU YD

(Continue Item 448 Asphalt Concrete Intermediate Course, Type 1)

(Sunmont) (1602.87) (0.125) (1/27)	7.42 CU YD
(Oakview) (1105.15) (0.125) (1/27)	5.12 CU YD
(Sundale) (882.13) (0.125) (1/27)	4.08 CU YD
(Tanglewood) (2337.14) (0.125) (1/27)	10.82 CU YD
(Elmbreeze) (2337.14) (0.125) (1/27)	10.82 CU YD
(Mill Ridge Path) (1209.03) (0.125) (1/27)	5.60 CU YD
(Fallen Oak) (1957.90) (0.125) (1/27)	9.06 CU YD
TOTAL ITEM 448 =	840.63 CU YD
USED:	850 CU YD

ITEM 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1

(27th / Jackson Sta. 10+30 to Sta. 12+50) (10583.16) (0.125) (1/27)	49 CU YD
(27th / Jackson Sta. 12+50 to Sta. 14+00) (150) [(46.1+36) 1/2] (0.125) (1/27)	28.51 CU YD
(27th / Jackson) Sta. 14+00 to Sta. 57+50) (4350) (36) (0.125) (1/27)	725 CU YD
(27th / Jackson) Sta. 290+50 to Sta. 291+55) (105) [(42+36) 1/2] (0.125) (1/27)	18.96 CU YD
(27th / Jackson) Sta. 57+50 to Sta. 59+91.71) (241.71) (11) (0.125) (1/27)	12.31 CU YD
(27th / Jackson and Bailey) (634.16) (0.125) (1/27)	2.94 CU YD
(Sunmont) (1602.87) (0.125) (1/27)	7.42 CU YD
(Oakview) (1105.15) (0.125) (1/27)	5.12 CU YD
(Sundale) (882.13) (0.125) (1/27)	4.08 CU YD
(Tanglewood) (2337.14) (0.125) (1/27)	10.82 CU YD
(Elmbreeze) (2337.14) (0.125) (1/27)	10.82 CU YD
(Mill Ridge Path) (1209.03) (0.125) (1/27)	5.60 CU YD
(Fallen Oak) (1957.90) (0.125) (1/27)	9.06 CU YD
TOTAL ITEM 448 =	840.63 CU YD
USED:	850 CU YD

ITEM 609 CONCRETE CURB, TYPE 6

LEFT

(27th / jackson Sta. 12+50 to Sta. 17+55.54)	505.54 LF
(Sunmont 93.14 CALC.)	93.14 LF
(27th / jackson Sta. 18+30.87 to Sta. 21+12.66)	281.79 LF
(Oakview 88.34 CALC.)	88.34 LF
(27th / jackson Sta. 21+89.28 to Sta. 25+41.75)	352.47 LF
(Sundale 78.54 CALC.)	78.54 LF
(27th / jackson Sta. 26+14.75 to Sta. 30+94.73)	479.98 LF
(Tanglewood 128.24 CALC.)	128.24 LF
(27th / jackson Sta. 31+94.89 to Sta. 44+07.08)	1212.19 LF
(Fallen Oak 129.96 CALC.)	129.96 LF
(27th / jackson Sta. 45+07.47 to Sta. 57+50)	1242.53 LF

DRAWN BY: JAH | CHECKED BY: FPW
DATE: Dec. 03, 2003 | DATE: Dec. 03, 2003

27th (Jackson Ave.) Widening

Roadway Calculations
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0309.DWG

ACCOUNT NUMBER: 05st03

(Continue Item 609 Concrete Curb, Type 6 from Sheet No.)

RIGHT

(27th / jackson Sta. 12+50 to Sta. 14+20.67)	170.67 LF
(Bailey 59.4 CALC.)	59.40 LF
(27th / jackson Sta. 14+79.85 to Sta. 34+90.29)	2010.44 LF
(Elmbreeze 94.73 CALC.)	94.73 LF
(27th / jackson Sta. 35+76.62 to Sta. 42+24.24)	647.62 LF
(Mill Ridge Path 81.18 CALC.)	81.18 LF
(27th / jackson Sta. 43+53.42 to Sta. 59+91.76)	1638.34 LF
TOTAL ITEM 609 =	9295.10 LF
USED:	9400 LF

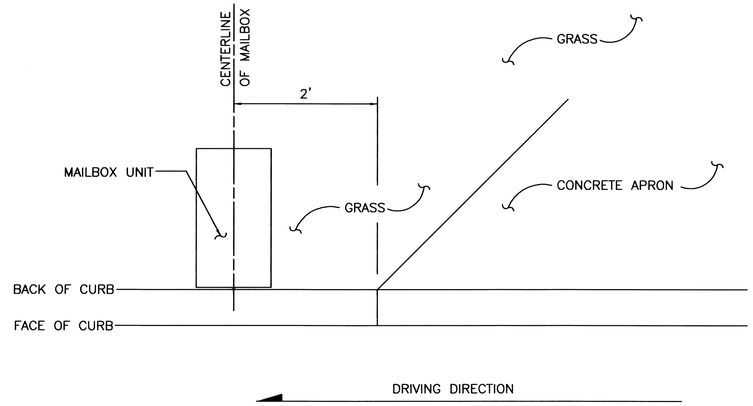
ITEM 605 4" SHALLOW PIPE UNDERDRAINS

LEFT

(27th / jackson Sta. 12+50 to Sta. 17+55.54)	505.54 LF
(Sunmont 93.14 CALC.)	93.14 LF
(27th / jackson Sta. 18+30.87 to Sta. 21+12.66)	281.79 LF
(Oakview 88.34 CALC.)	88.34 LF
(27th / jackson Sta. 21+89.28 to Sta. 25+41.75)	352.47 LF
(Sundale 78.54 CALC.)	78.54 LF
(27th / jackson Sta. 26+14.75 to Sta. 30+94.73)	479.98 LF
(Tanglewood 128.24 CALC.)	128.24 LF
(27th / jackson Sta. 31+94.89 to Sta. 44+07.08)	1212.19 LF
(Fallen Oak 129.96 CALC.)	129.96 LF
(27th / jackson Sta. 45+07.47 to Sta. 57+50)	1242.53 LF

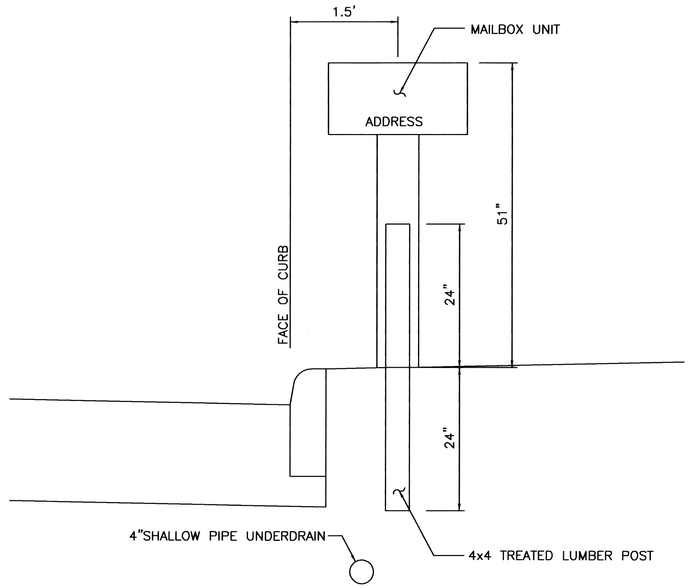
RIGHT

(27th / jackson Sta. 12+50 to Sta. 14+20.67)	170.67 LF
(Bailey 59.4 CALC.)	59.40 LF
(27th / jackson Sta. 14+79.85 to Sta. 34+90.29)	2010.44 LF
(Elmbreeze 94.73 CALC.)	94.73 LF
(27th / jackson Sta. 35+76.62 to Sta. 42+24.24)	647.62 LF
(Mill Ridge Path 81.18 CALC.)	81.18 LF
(27th / jackson Sta. 43+53.42 to Sta. 59+91.76)	1638.34 LF
TOTAL ITEM 605 =	9295.10 LF
USED:	9400 LF



NOTES

1. MAIL BOX SHALL BE PLACED AS DETAILED UNLESS OTHERWISE DIRECTED.
2. MAILBOXES SHALL BE STEP2 MAILMASTER PLUS MAILBOX (BLACK) OR APPROVED EQUAL.
3. INSTALLATION AS DETAILED OR AS PER MANUFACTURE SPECS.
4. ALL MATERIAL AND INSTALLATION AND REMOVAL SHALL BE INCLUDE IN UNIT PRICE BID ITEM 600SPEC. MAILBOX EACH.
5. ADDRESS SHALL BE DENOTED ON EACH MAILBOX BOTH SIDES NUMBERED SHALL BE 2" IN HEIGHT.
6. ALL EXISTING MAILBOXES REMOVED SHALL BE GIVEN BACK TO THE PROPERTY OWNER UPON OWNERS REQUEST AT NO ADDITIONAL CHARGE.



MAILBOX DETAIL

ITEM 600SPEC. MAILBOX = 30 EACH

DRAWN BY:	CHECKED BY:
JAH	FPW
DATE: Dec. 03, 2002	DATE: Dec. 03, 2002

27th (Jackson Ave.) Widening
Roadway Calculations
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

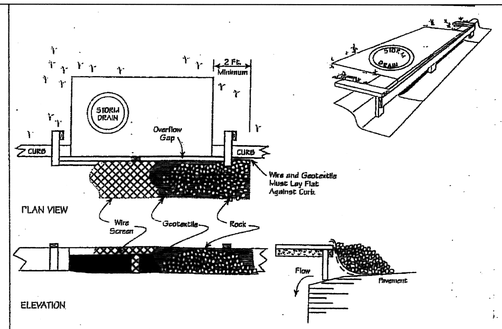
Massillon
Means More!

REVISIONS:

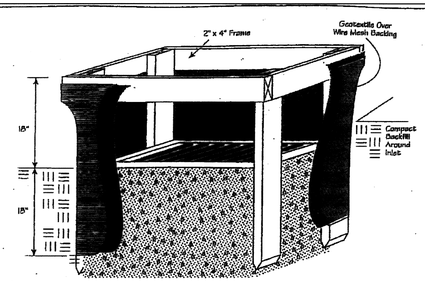
DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0310.DWG

ACCOUNT NUMBER
05st03



1. Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
2. The wooden frame is to be constructed of 2-by-4-in. construction-grade lumber. The end spacers shall be a minimum of 1 ft. beyond both ends of the throat opening. The anchors shall be nailed to 2-by-4-in. stakes driven on the opposite side of the curb.
3. The wire mesh shall be of sufficient strength to support fabric and stone. It shall be a continuous piece with a minimum width of 30 in. and 4 ft. longer than the throat length of the inlet, 2 ft. on each side.
4. Geotextile cloth shall have an equivalent opening size (EOS) of 20-40 sieve and be resistant to sunlight. It shall be at least the same size as the wire mesh.
5. The wire mesh and geotextile cloth shall be formed to the concrete gutter and against the face of the curb on both sides of the inlet and securely fastened to the 2-by-4-in. frame.
6. Two-inch stone shall be placed over the wire mesh and geotextile in such a manner as to prevent water from entering the inlet under or around the geotextile cloth.



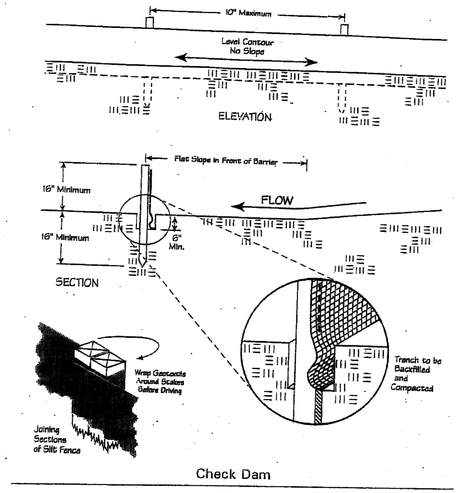
1. Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
2. The earth around the inlet shall be excavated completely to a depth at least 18 in.
3. The wooden frame shall be constructed of 2-by-4-in. construction-grade lumber. The 2-by-4-in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-by-4-in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
5. Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.
7. A compacted earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of earth dikes shall be at least 6 in. higher than the top of the frame.

1. Silt fence shall be constructed before upslope land disturbance begins.
2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions which may carry small concentrated flows to the silt fence are dissipated along its length.
3. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.
4. Where possible, silt fence shall be placed on the flattest area available.
5. Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
6. The height of the silt fence shall be a minimum of 16 in. above the original ground surface.
7. The silt fence shall be placed in a trench cut a minimum of 8 in. deep. The trench shall be cut with a trencher, cable laying machine, or other suitable device which will ensure an adequately uniform trench depth.
8. The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8 in. of cloth are below the ground surface. Excess material shall lay on the bottom of the 8-in.-deep trench. The trench shall be backfilled and compacted.
9. Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.
10. Maintenance--Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under or around the ends, or in any other way becomes a concentrated flow, one of the following shall be performed, as appropriate: 1) The layout of the silt fence shall be changed, 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.

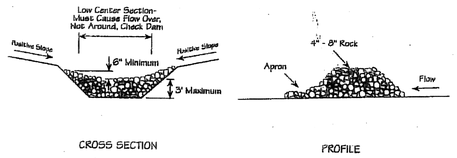
Criteria for Silt Fence Materials

1. Fence Posts--The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2-in. hardwood of sound quality. The maximum spacing between posts shall be 10 ft.
2. Silt Fence Fabric shall be ODOT Type C Geotextile Fabric or as described by the chart below:

Fabric Properties	
Minimum Tensile Strength	120 lbs.
Maximum Elongation at 60 lbs	50%
Minimum Puncture Strength	50 lbs.
Minimum Tear Strength	40 lbs.
Minimum Burst Strength	200 psi
Apparent Opening Size	≤ 0.84mm
Minimum Permeability	$1X10^{-2}$ sec.$^{-1}$
Ultraviolet Exposure Strength Retention	70%



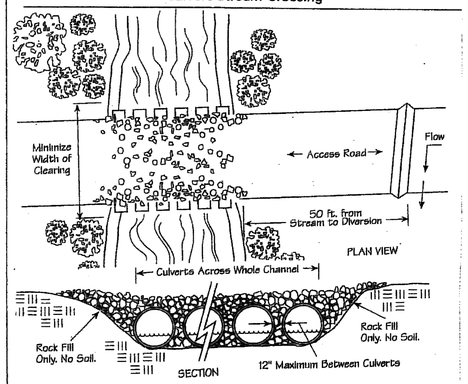
Check Dam



1. The check dam shall be constructed of 4-8-in.-diameter stone, placed so that it completely covers the width of the channel.
2. The top of the check dam shall be constructed so that the center is approximately 6 in. lower than the outer edges, so water will flow across the center and not around the ends.
3. The maximum height of the check dam at the center of the weir shall not exceed 3 ft.
4. Spacing between dams shall be as shown in the plans or by the following table:

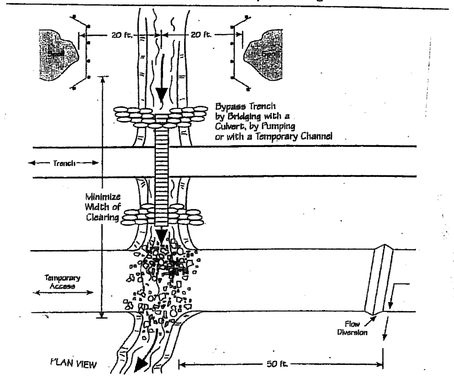
Check Dam Spacing				
Dam Height (ft.)	Channel Slope			
	< 5%	5 - 10%	10 - 15%	15 - 20%
1	65 ft.	30 ft.	20 ft.	15 ft.
2	130 ft.	65 ft.	40 ft.	30 ft.
3	200 ft.	100 ft.	65 ft.	50 ft.

Culvert Stream Crossing



1. Stream Disturbance--Disturbance to the stream shall be kept to a minimum. Streambank vegetation shall be preserved to the maximum extent practical and the stream crossing shall be as narrow as practical.
2. Clearing shall be done by cutting NOT grubbing. The roots and stumps shall be left in place to help stabilize the banks and accelerate revegetation.
3. To minimize interference with fish spawning and migration, crossing construction should be avoided where practical from March 15 through June 15.
4. Water shall not be allowed to flow along the road directly to the stream. Diversions and swales shall direct runoff away from the access road to a sediment-control practice.
5. Placement--Culverts shall be placed on the existing streambed to avoid a drop or waterfall at the downstream end of the pipe, which would be a barrier to fish migration. Crossings shall be made in shallow areas rather than deep pools where possible.
6. Culvert Size--Culvert diameter shall be at least three times the depth of normal stream flow at the point of the stream crossing. If the crossing must be placed in deep, slow-moving pools, the culvert diameter may be reduced to twice the depth of normal stream flow. The minimum size culvert that may be used is 18 in.
7. Number of Culverts--There shall be sufficient number of culverts to completely cross the stream channel from streambank to streambank with no more than a 12-in. space between each one.
8. Fill and Surface Material--All material placed in the stream channel, around the culverts and on the surface of the crossing shall be stone, rock or aggregate. ODOT No. 1 shall be the minimum acceptable size. To prevent washouts, larger stone and rock may be used and they may be placed in gabion mattresses. NO SOIL SHALL BE USED IN THE CONSTRUCTION OF A STREAM CROSSING OR PLACED IN THE STEAM CHANNEL.
9. Removal--Aggregate stone and rock used for this structure does not need to be removed. Care should be taken so that any aggregate left does not create an impoundment or impede fish passage. All pipes, culverts, gabions or structures must be removed.
10. Stabilization--Streambanks shall be stabilized. Plantings shall include woody vegetation where practical.

Small Stream Utility Crossing



1. When site conditions allow, one of the following shall be used to divert stream flow or otherwise keep the flow away from construction activity.
   - Drill or bore the utility lines under the stream channel.
   - Construct a cofferdam or barricade of sheet pilings, sandbags or a turbidity curtain to keep the stream from continuelly flowing through the disturbed areas. Turbidity curtains shall be a pre-assembled system and used only parallel to flow.
   - Stage construction by confining first one-half of the channel until work there is completed and stabilized, then move to the other side to complete the crossing.
   - Route the stream flow around the work area by bridging the trench with a rigid culvert, pumping, or constructing a temporary channel. Temporary channels shall be stabilized by rock or a geotextile completely lining the channel bottom and side slopes.
2. Crossing Width--The width of clearing shall be minimized through the riparian area. The limits of disturbance shall be as narrow as possible including not only construction operations within the channel itself but also clearing done through the vegetation growing on the streambanks.
3. Clearing shall be done by cutting NOT grubbing. The roots and stumps shall be left in place to help stabilize the banks and accelerate revegetation.
4. Material excavated from the trench shall be placed at least 20 ft. from the streambanks.
5. To the extent other constraints allow, stream shall be crossed during periods of low flow.
6. Duration of Construction--The time between initial disturbance of the stream and final stabilization shall be kept to a minimum. Construction shall not begin on the crossing until the utility line is in place to within 10 ft. of the streambank.
7. Fill Placed Within the Channel--The only fill permitted in the channel should be clean aggregate, stone or rock. No soil or other fine erodible material shall be placed in the channel. This restriction includes all fill for temporary crossings, diversions, and trench backfill when placed in flowing water. If the stream flow is diverted away from construction activity the material originally excavated from the trench may be used to backfill the trench.
8. Streambank Restorations--Streambanks shall be restored to their original line and grade and stabilized with riprap or vegetative bank stabilization.
9. Runoff Control Along the Right-of-Way--To prevent sediment-laden runoff from flowing to the stream, runoff shall be diverted with water bar or swales to a sediment trapping practice a minimum of 50 ft. from the stream.
10. Dewatering or pumping water containing sediment shall not be discharge directly to a stream. The flow shall be routed through a settling pond, dewatering sump or a flat, well-vegetated area adequate for removing sediment before the pumped water reaches the stream.
11. Dewatering operations shall not cause significant reductions in stream temperatures. If groundwater is to be discharged in high volumes during summer months, it shall first be routed through a settling pond or overland though a flat well-vegetated area.
12. Permits--In addition to these specifications, stream crossings shall conform to the rules and regulations of the U.S. Army Corps of Engineers for in-stream modifications (404 permits) and Ohio Environmental Protection Agency's State Water Quality Certification (401 permits).

Mulching

1. Mulch and/or other appropriate vegetative practices shall be applied to disturbed areas within 7 days of grading if the area is to remain dormant (undisturbed) for more than 45 days or on areas and portions of the site which can be brought to final grade.
2. Mulch shall consist of one of the following:
   - Straw--Straw shall be unrotted small grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The straw mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and place two 45-lb. bales of straw in each section.
   - Hydroseeders--Wood cellulose fiber should be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
   - Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 10-20 tons/ac.
3. Mulch Anchoring--Mulch shall be anchored immediately to minimize loss by wind or runoff. The following are acceptable methods for anchoring mulch.
   - Mechanical--Use a disk, crimper, or similar type tool set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but be left generally longer than 6 in.
   - Mulch Nettings--Use according to the manufacturer's recommendations, following all placement and anchoring suggestions. Use in areas of water concentration and steep slopes to hold mulch in place.
   - Asphalt Emulsion--For straw mulch, apply at the rate of 160 gal./ac. (0.1 gal./sy) into the mulch as it is being applied or as recommended by the manufacture.
   - Synthetic Binders--For straw mulch, synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the manufacturer.
   - Wood Cellulose Fiber--Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 lb./acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.

NOTE

THE DETAILS SHOWN ON THIS SHEET ARE STORM WATER BEST MANAGEMENT PRACTICES FROM (RAINWATER AND LAND DEVELOPMENT) OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION. THE CONTRACTOR SHALL USE THE ADJACENT OR PROVIDE A DETAIL PROPOSAL WHEN CREATING, IMPLEMENTING THE SWP3 PLAN AS REQUIRED BY THE CITY AND THE STARK SOIL & WATER CONSERVATION DISTRICT.

27th (Jackson Ave.) Widening

Storm Water Pollution Control

City of Massillon

Stark County, Ohio

DRAWN BY:	CHECKED BY:
JK	SDH
DATE: Sept., 2004	DATE: Sept., 2004

Francis H. Cicchinelli, Jr.
Mayor

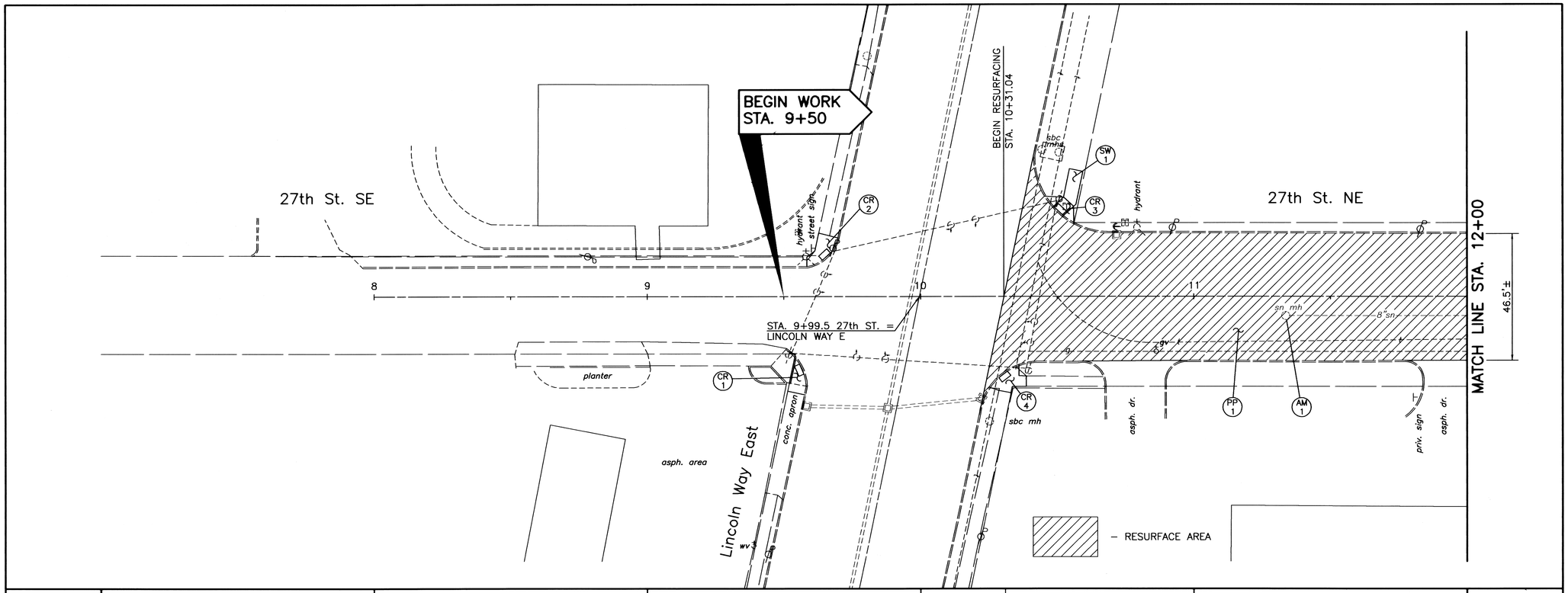
Massillon
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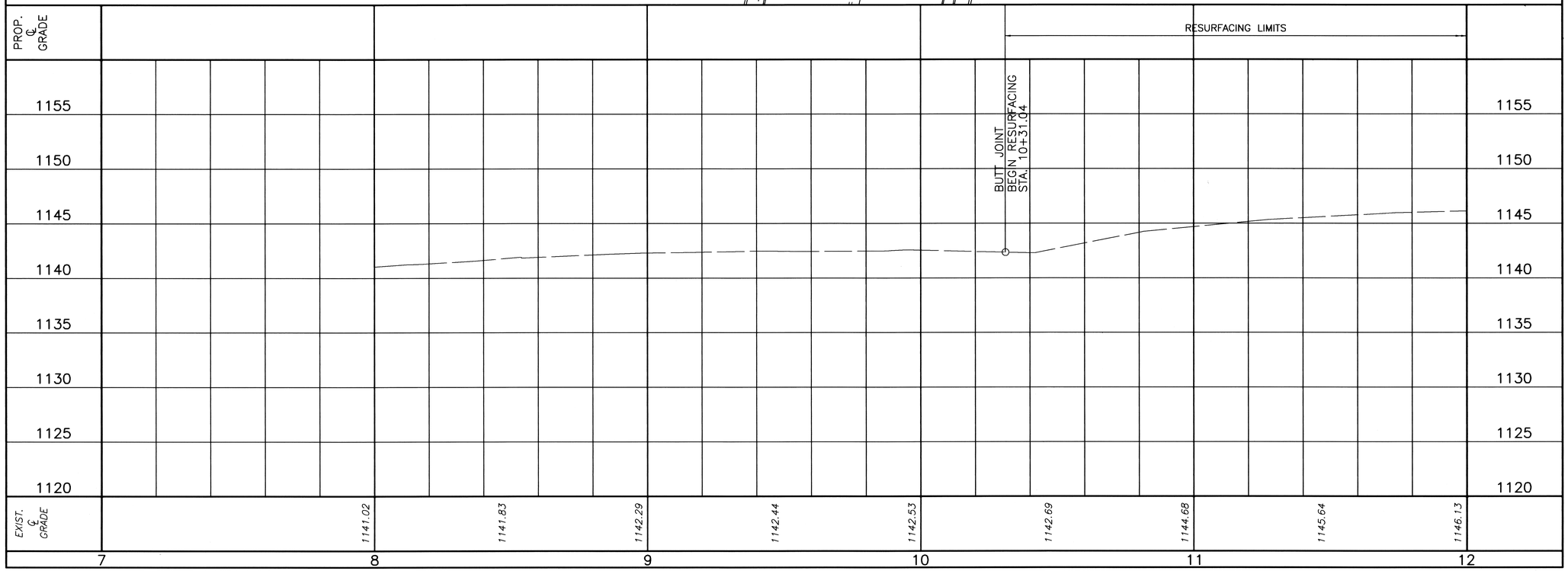
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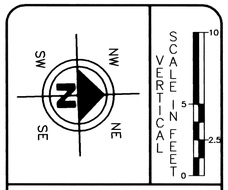
DATE	DESCRIPTION

FILE NAME: 05st0313.DWG

ACCOUNT NUMBER: 05st03







DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 7+00 to Sta. 12+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

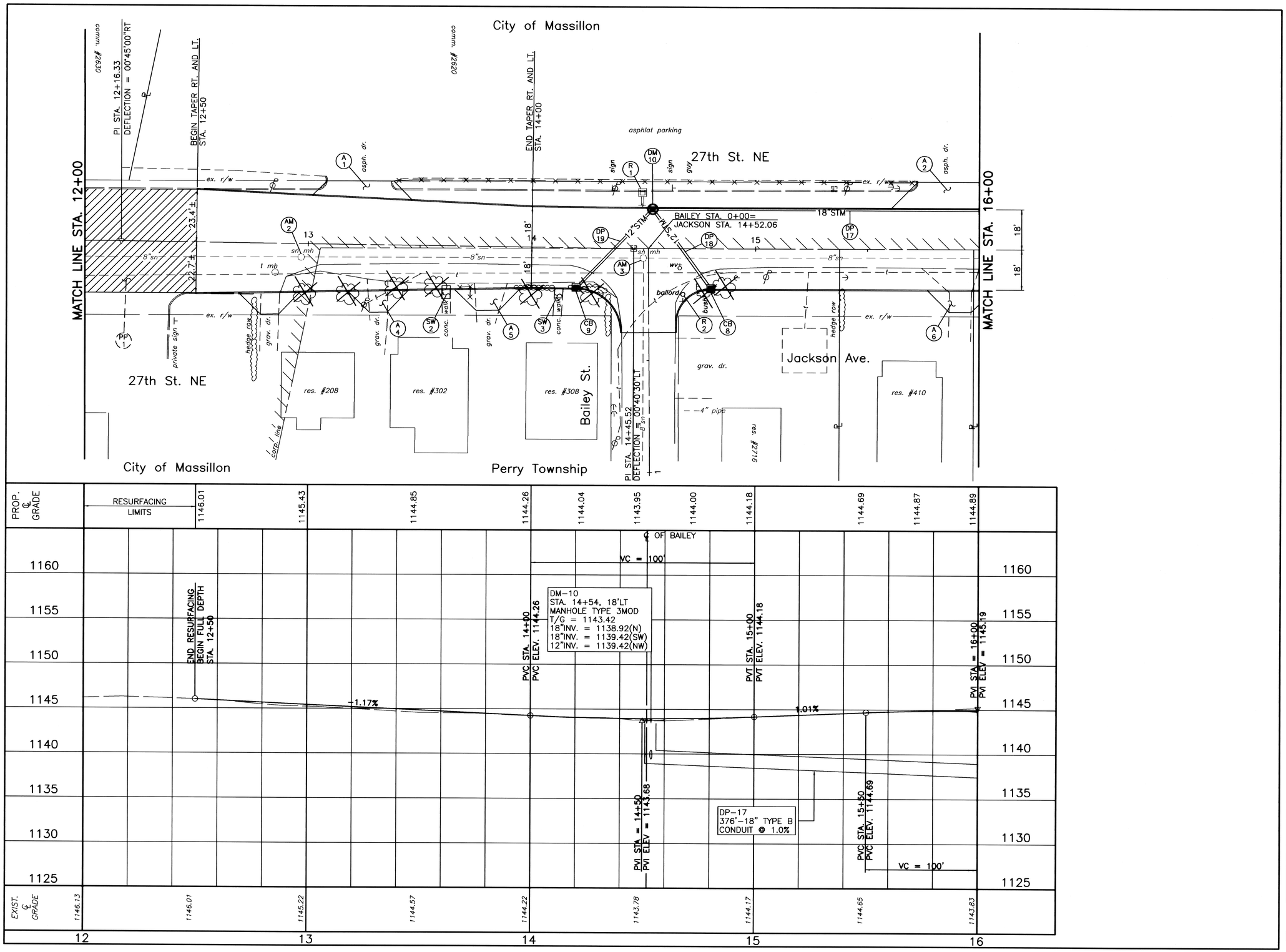
Massillon
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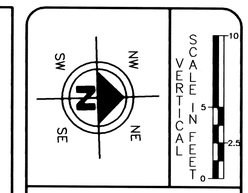
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0314.DWG

ACCOUNT NUMBER: 05ST03





DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widing

Plan and Profile Sta. 12+00 to Sta. 16+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

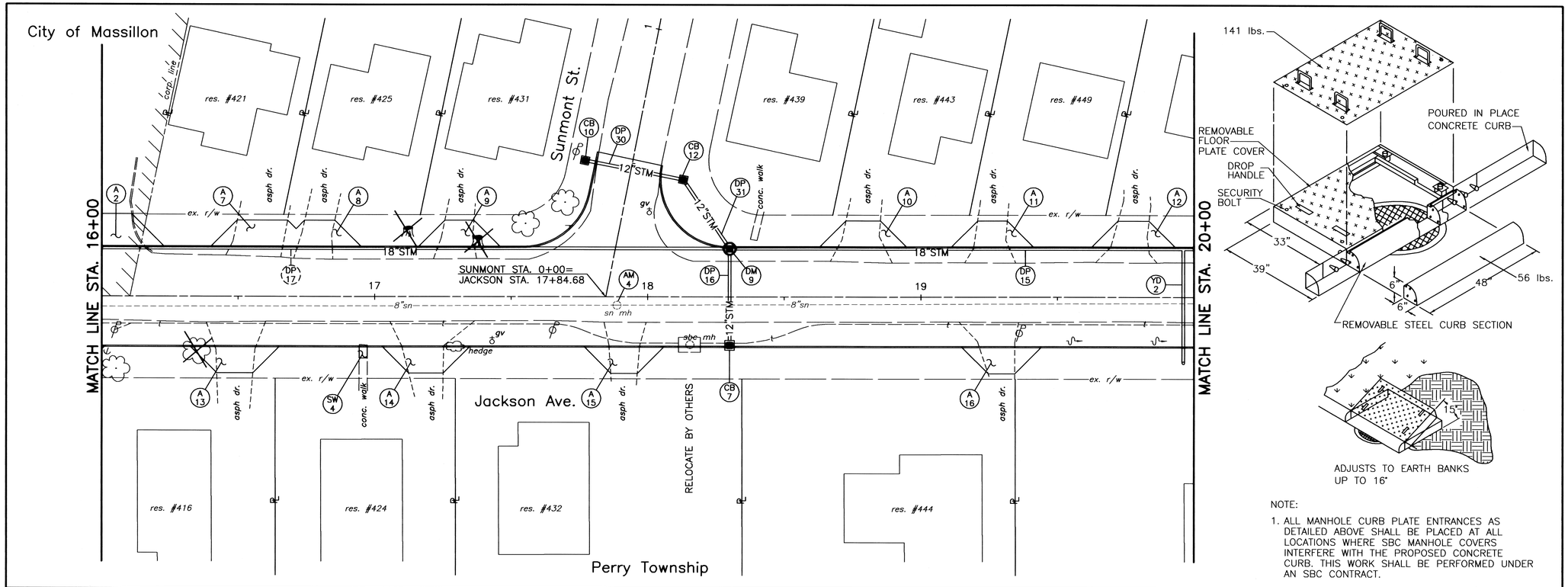
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REVISIONS:

DATE	DESCRIPTION

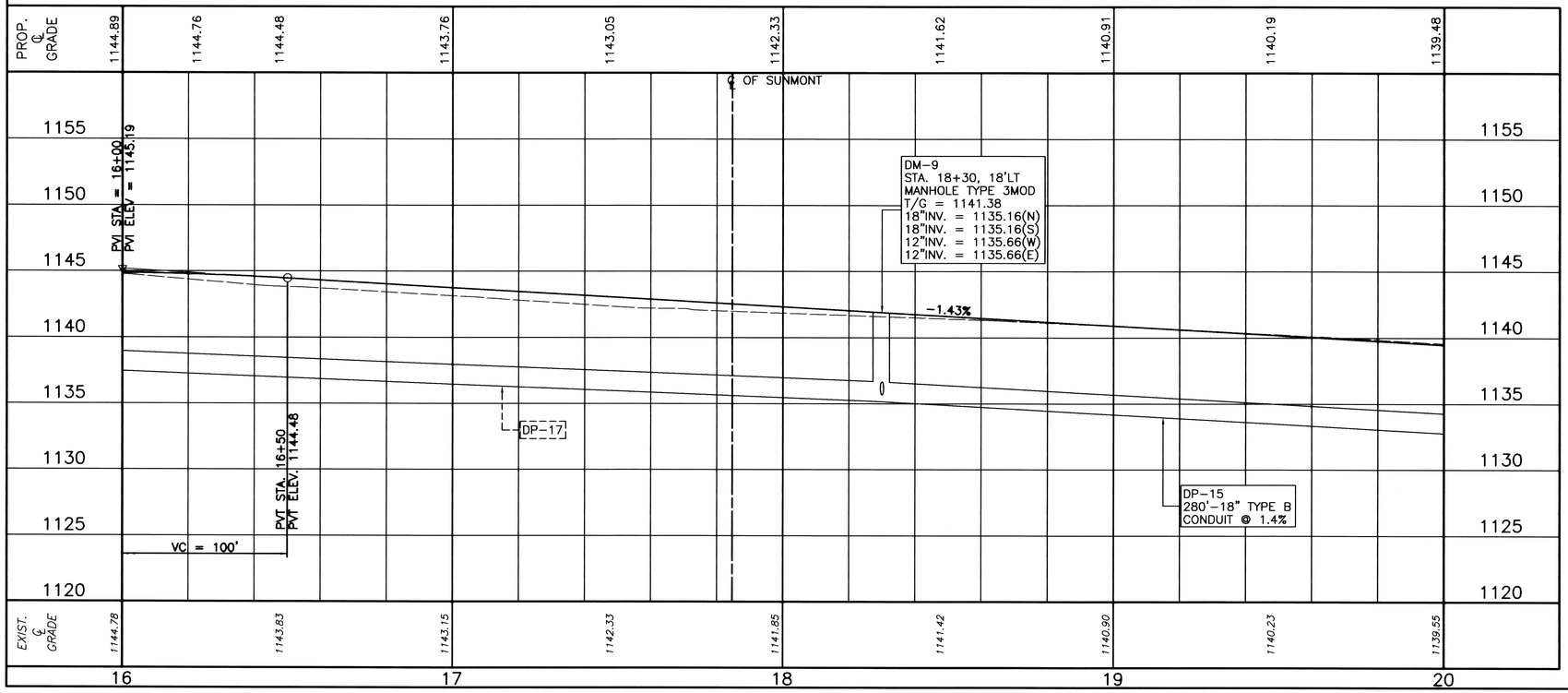
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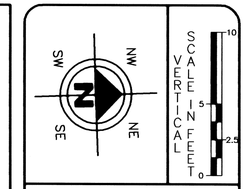
ACCOUNT NUMBER: 05ST03



NOTE:

1. ALL MANHOLE CURB PLATE ENTRANCES AS DETAILED ABOVE SHALL BE PLACED AT ALL LOCATIONS WHERE SBC MANHOLE COVERS INTERFERE WITH THE PROPOSED CONCRETE CURB. THIS WORK SHALL BE PERFORMED UNDER AN SBC CONTRACT.





DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 16+00 to Sta. 20+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

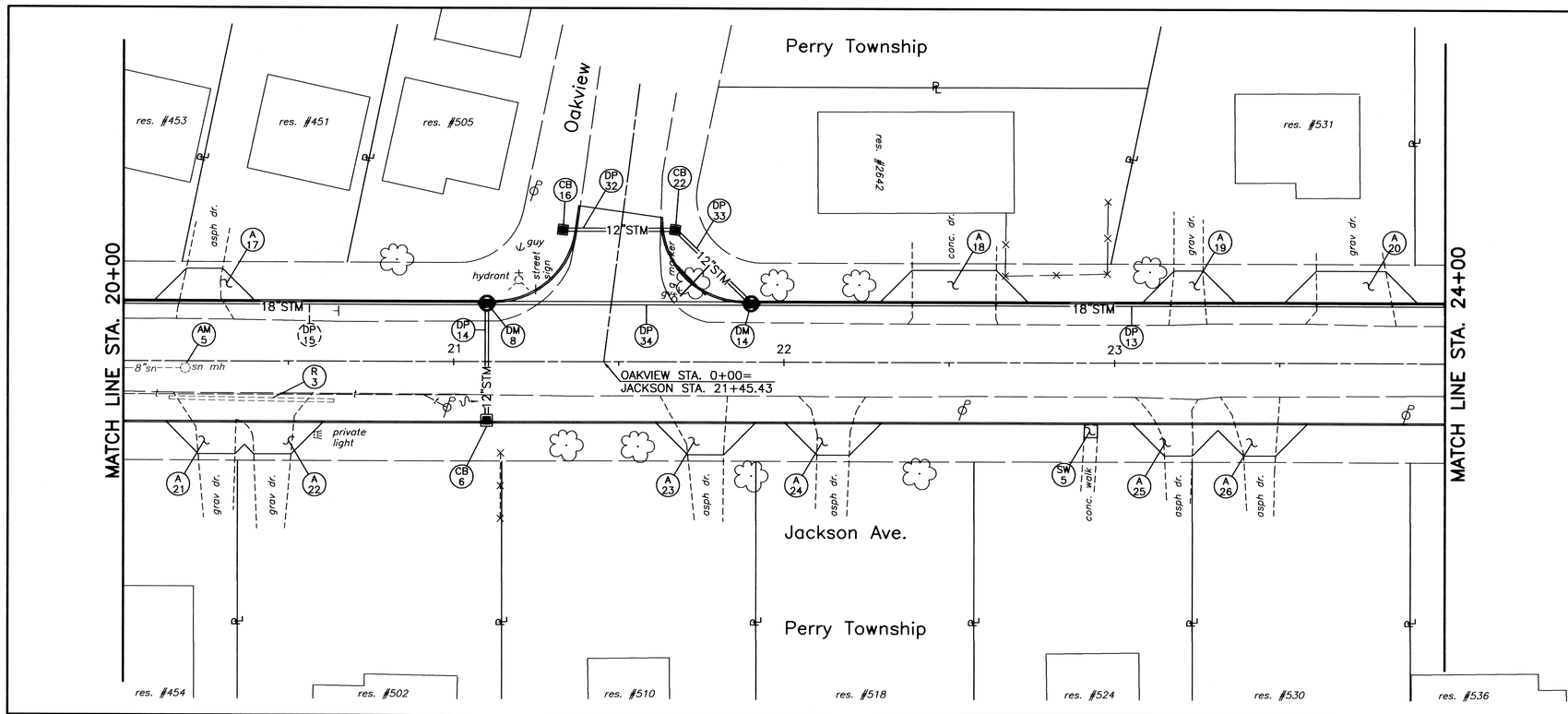
Massillon
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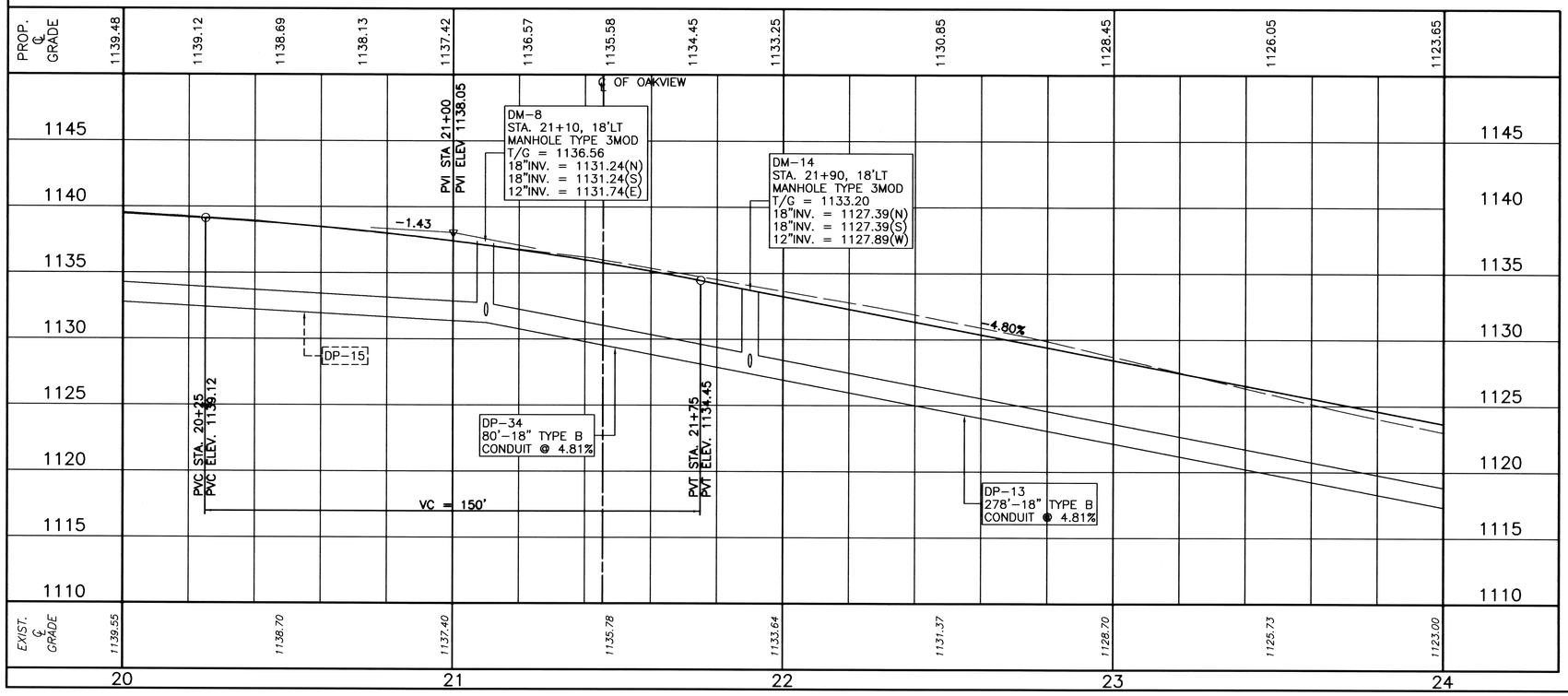
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0316.DWG

ACCOUNT NUMBER: 05ST03





SCALE IN FEET
VERTICAL
10 5 2.5 0
HORIZONTAL
20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 20+00 to Sta. 24+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

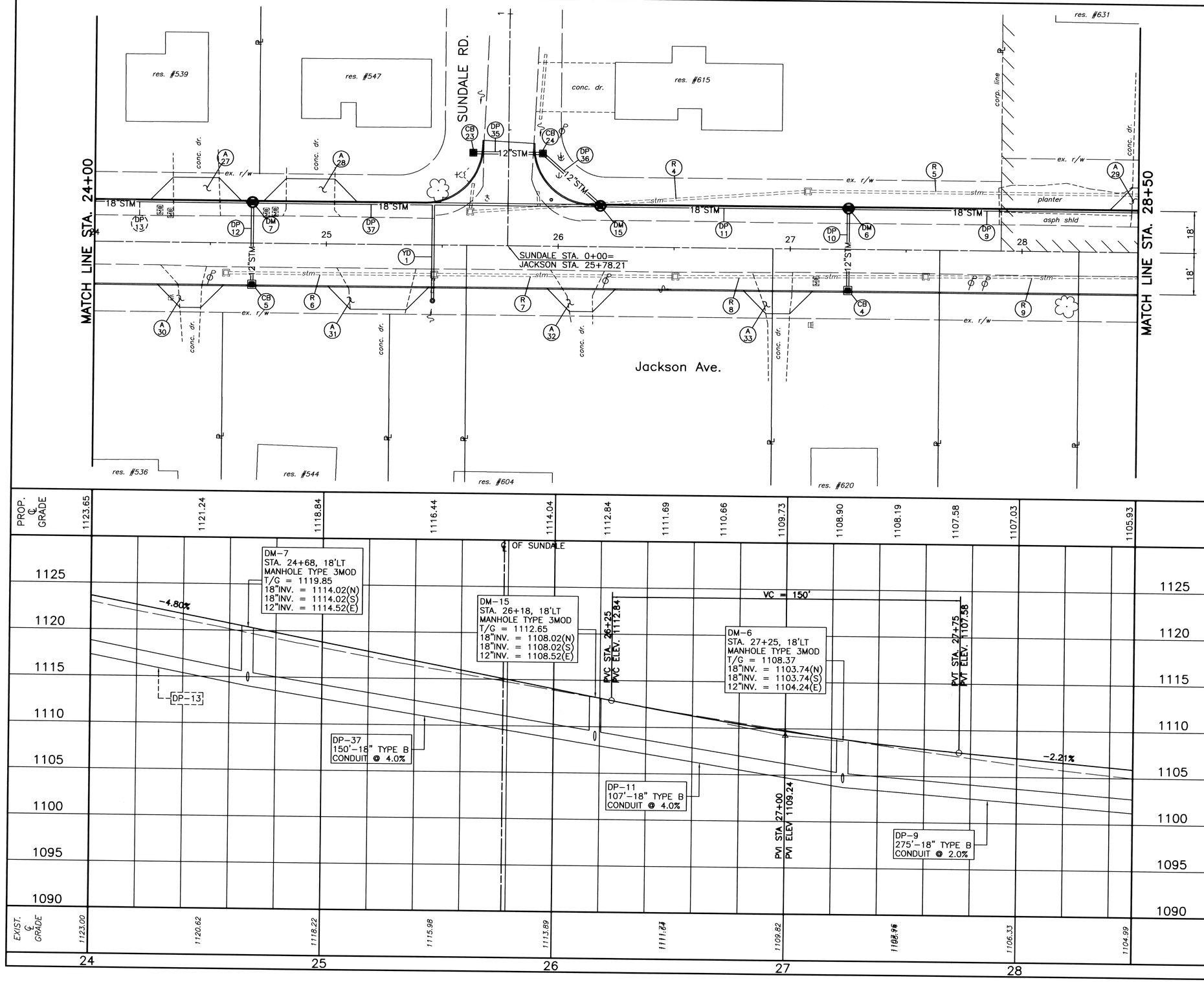
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0317.DWG

ACCOUNT NUMBER: 05ST03



SCALE IN FEET
VERTICAL: 10, 5, 2.5, 0
HORIZONTAL: 20, 10, 0, 20

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 24+00 to Sta. 28+50

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0318.DWG

ACCOUNT NUMBER: 05ST03

res. #631 | res. #641 | res. #2637 | City of Massillon | Tanglewood Dr. | 27th St. | Jackson Ave. | Perry Township | City of Massillon | res. #30 | res. #792-802

MATCH LINE STA. 28+50 | MATCH LINE STA. 33+00

conc. dr. | planter | ex. r/w | stm | 18"STM | 24"STM | 36"STM | 12"STM | hydrant | sign | 36"STM sign | rock | grav. dr. | gv | gas vent | cable box | asph dr. | ex. corp. line

TANGLEWOOD STA. 0+00=
JACKSON STA. 31+44.94

DM-2 | DM-4 | DM-5 | DP-5 | DP-6 | DP-7 | DP-8 | DP-9 | DP-20 | YD-3 | CB-3 | R-10 | R-11 | R-12 | R-13 | R-14 | R-15 | R-16 | A-29 | A-34 | A-35 | A-36 | A-37

18' | 18'

PROP. ℄ GRADE: 1105.93 | 1104.82 | 1103.72 | 1102.61 | 1101.51 | 1100.40 | 1099.30 | 1098.77 | 1098.31 | 1097.92 | 1097.58 | 1097.31 | 1097.10

EXIST. ℄ GRADE: 1104.99 | 1103.96 | 1102.71 | 1101.64 | 1100.71 | 1099.85 | 1099.02 | 1098.46 | 1097.99 | 1097.56

1115 | 1110 | 1105 | 1100 | 1095 | 1090 | 1085 | 1080

DM-5
STA. 30+00, 18'LT
MANHOLE TYPE 3MOD
T/G = 1102.09
24"INV. = 1097.74(N)
18"INV. = 1098.24(S)
12"INV. = 1098.74(W)
12"INV. = 1098.74(E)

-2.21%

DP-9

DP-7
195'-24" TYPE B
CONDUIT @ 2.0%

℄ OF TANGLEWOOD

PVC STA. 31+50
PVC ELEV. 1099.30

VC = 500'

DM-4
STA. 31+95, 18'LT
MANHOLE TYPE 3MOD
T/G = 1197.87
36"INV. = 1092.84(N)
24"INV. = 1093.84(S)
36"INV. = 1092.84(w)

2-2"fm

DP-6
176'-36" TYPE B
CONDUIT @ 0.59%

29 | 30 | 31 | 32 | 33

SCALE IN FEET: 10 | 5 | 2.5 | 0
HORIZONTAL SCALE IN FEET: 20 | 10 | 0 | 20

DRAWN BY: FPW | CHECKED BY: SDH
DATE: Sept. 8, 2005 | DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 28+50 to Sta. 33+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

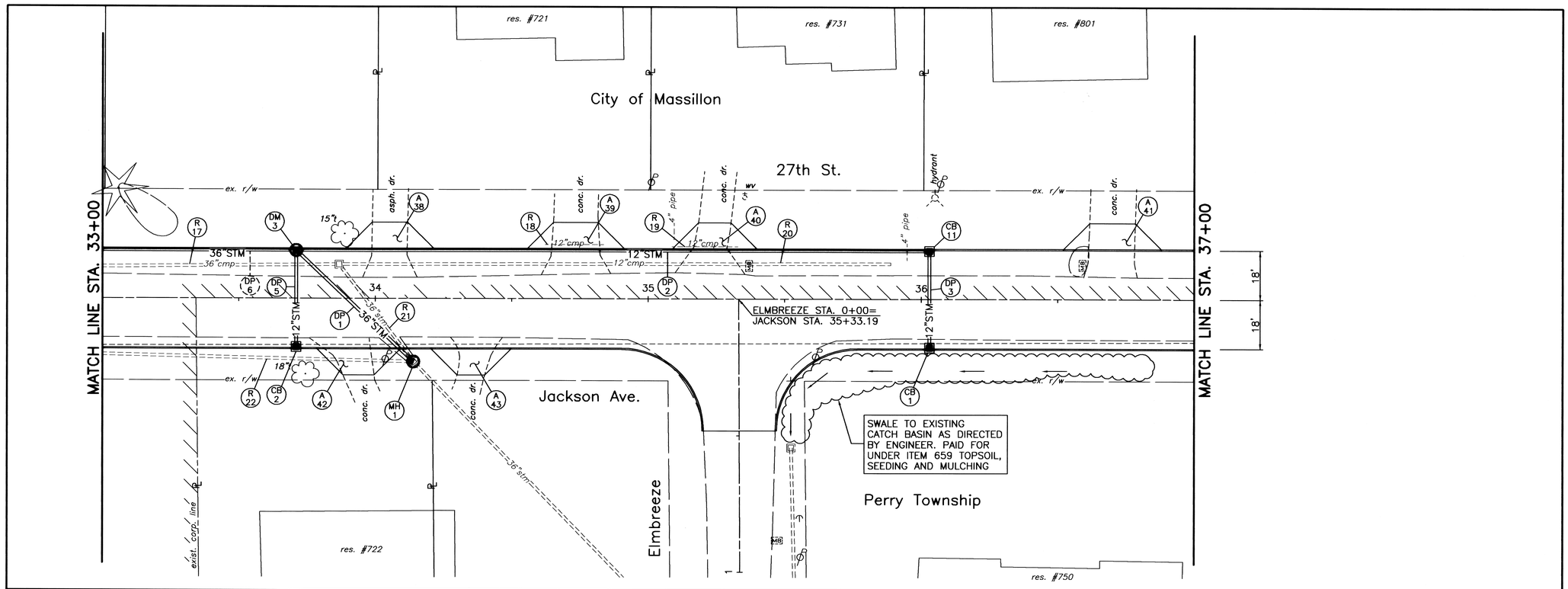
Massillon
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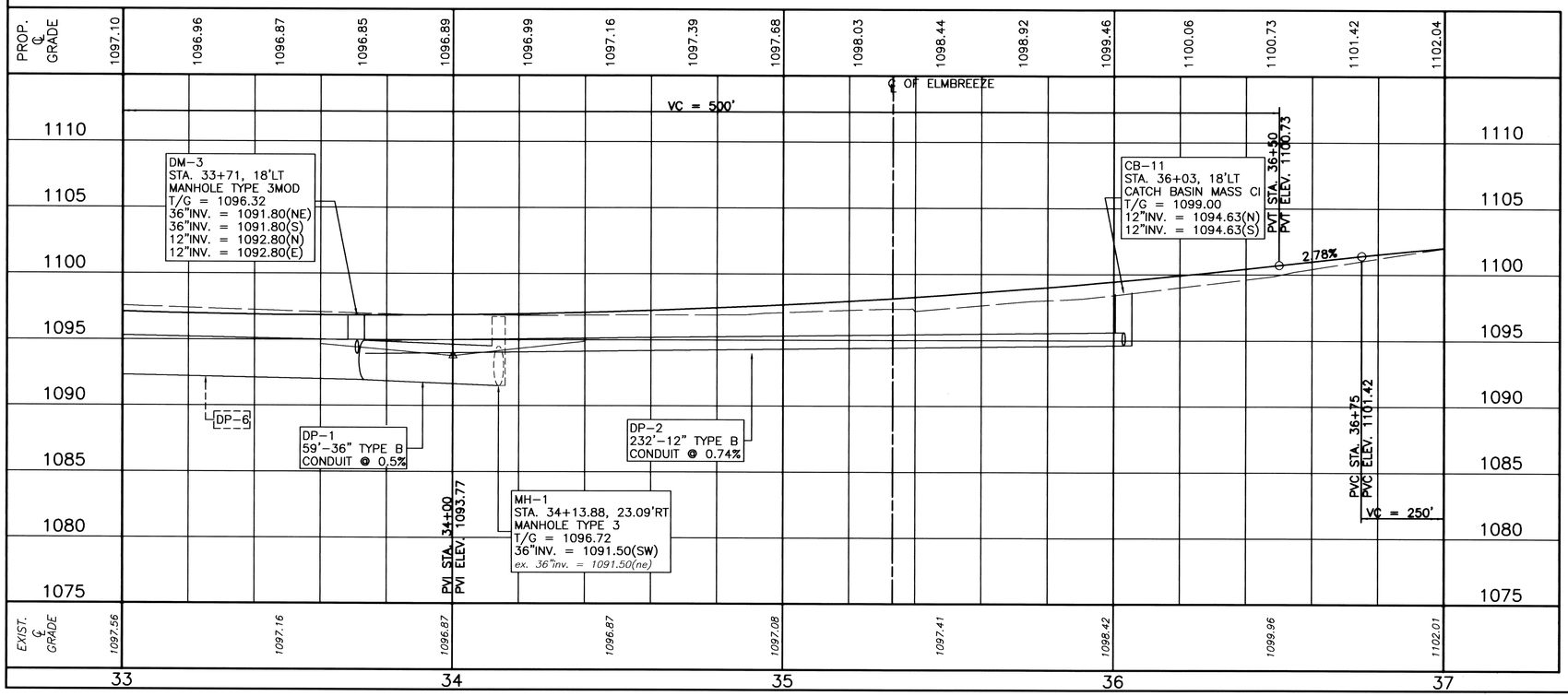
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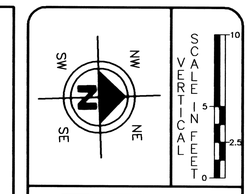
DATE	DESCRIPTION

FILE NAME: 05st0319.DWG

ACCOUNT NUMBER: 05ST03







DRAWN BY: FPW | CHECKED BY: SDH

DATE: Sept. 8, 2005 | DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 33+00 to Sta. 37+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

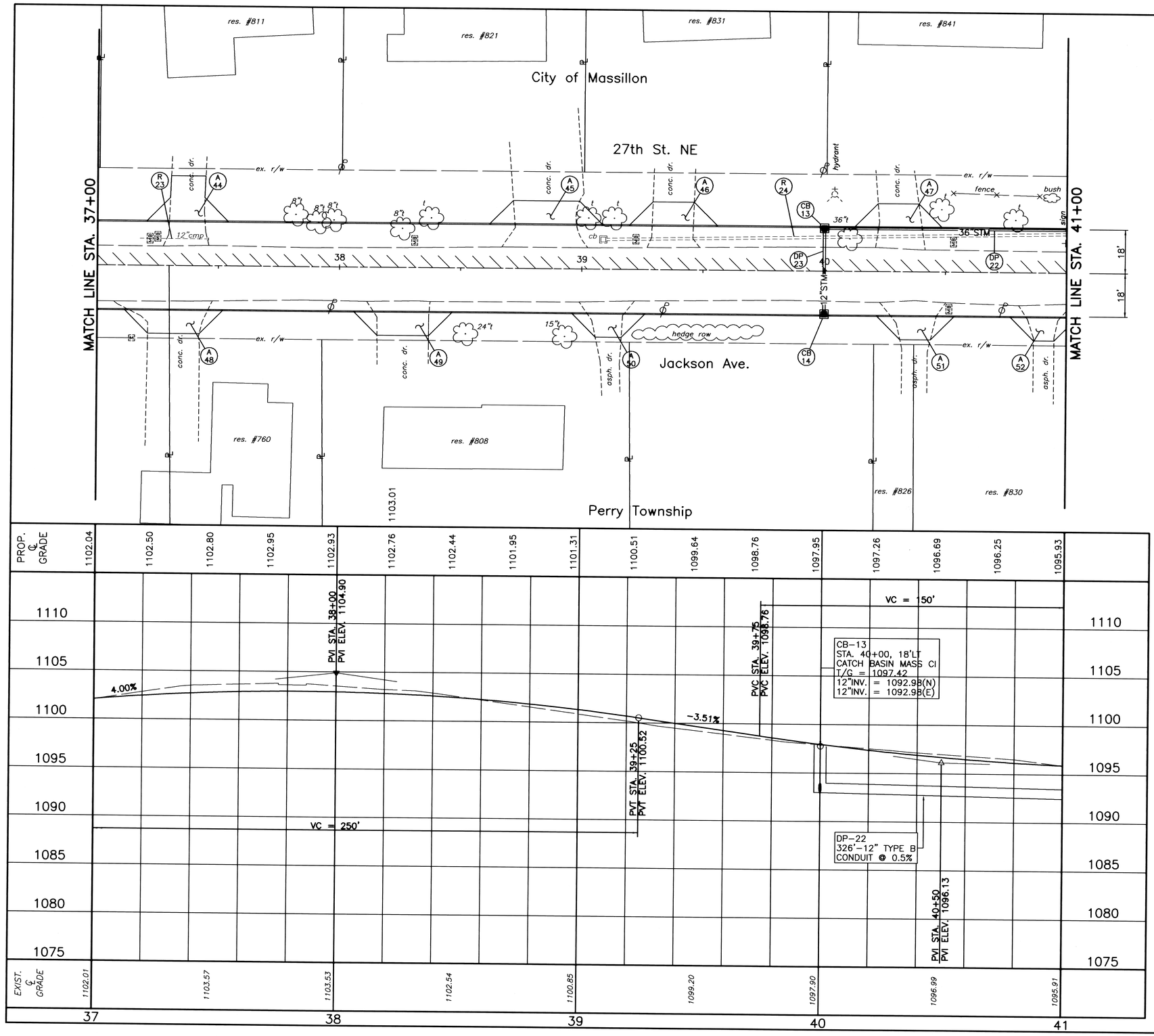
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05Sst0320.DWG

ACCOUNT NUMBER: 05ST03



SCALE IN FEET
VERTICAL: 10, 5, 2.5, 0
20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 37+00 to Sta. 41+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

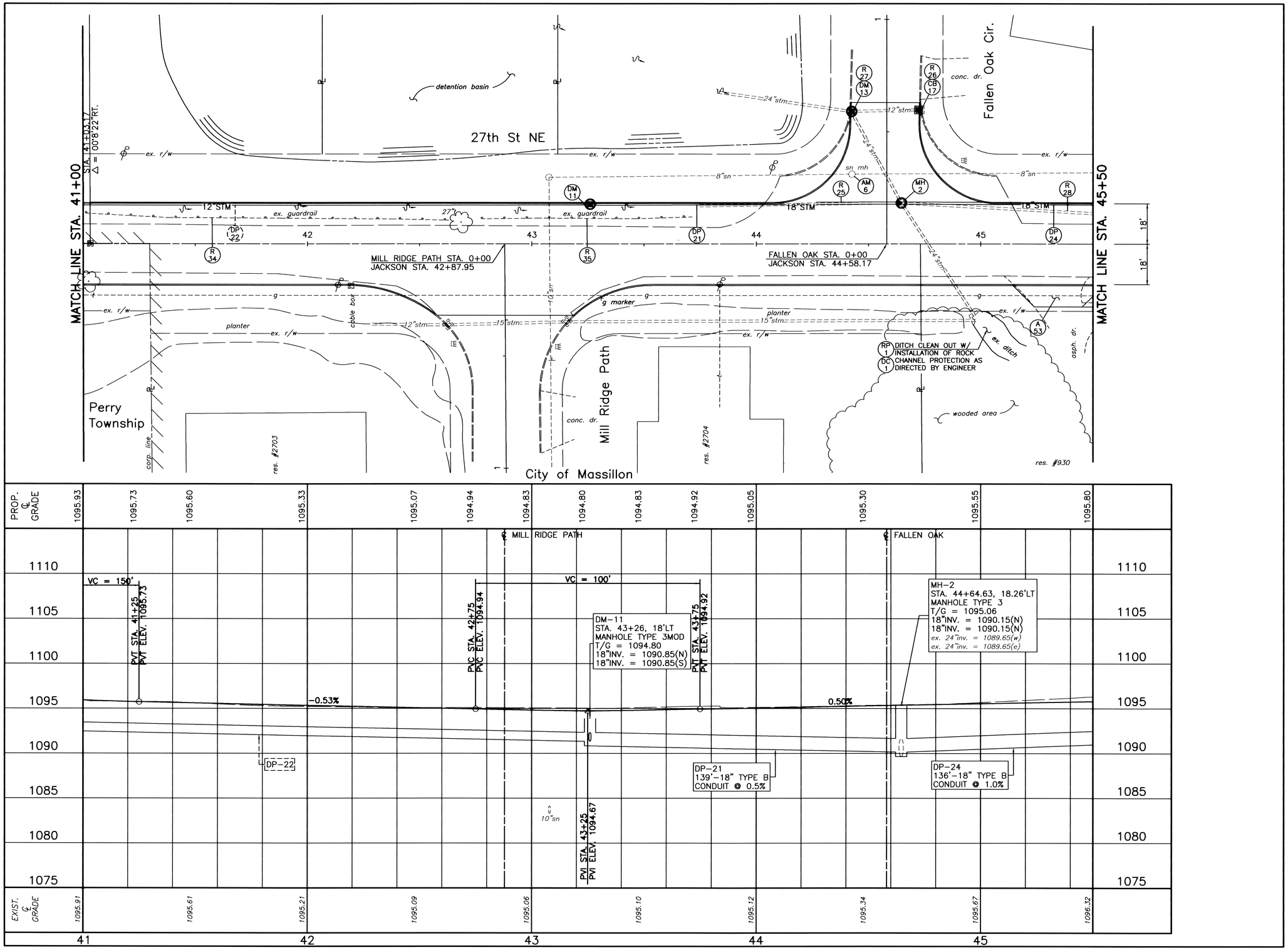
Massillon
Means More!

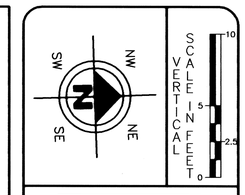
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0321.DWG

ACCOUNT NUMBER: 05st03





DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 41+00 to Sta. 45+50

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0322.DWG

ACCOUNT NUMBER: 05ST03

City of Massillon

res. #937

res. #1001

res. #1007

27th St NE

8"san

sn mh

hydrant

gas marker

8"sn

conc. dr.

conc. dr.

DM 12

18 STM

DP 25

46

47

48

49

12"STM

MATCH LINE STA. 45+50

MATCH LINE STA. 49+50

18'

18'

R 29

A 54

A 55

R 30

A 56

R 31

gas vent

gas mark

asph. dr.

CB 15

A 57

fence

res. #930

PROP. & GRADE	1095.80	1095.92	1096.12	1096.47	1096.96	1097.59	1098.37	1099.30	1100.30	1102.30	1104.30	1105.23	1106.02	1106.67	1107.18	
EXIST. & GRADE	1096.32	1097.03		1097.75			1098.79		1100.20	1101.61	1104.14		1106.92		1108.15	

VC = 150'

PVC STA. 45+75
PVC ELEV. 1095.92

PVT STA. 47+25
PVT ELEV. 1099.30

PVI STA. 49+50
PVI ELEV. 1108.30

DM-12
STA. 46+00, 18'LT
MANHOLE TYPE 3MOD
T/G = 1095.59
18"INV. = 1091.52(S)
12"INV. = 1092.02(E)

0.50%

4.00%

-0.48%

PVI STA. 46+50
PVI ELEV. 1096.30

PVC STA. 48+50
PVC ELEV. 1104.30

VC = 200'

1120
1115
1110
1105
1100
1095
1090
1085

46 47 48 49

N

SW NW SE NE

VERTICAL SCALE IN FEET
10 5 2.5 0

20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 45+50 to Sta. 49+50

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

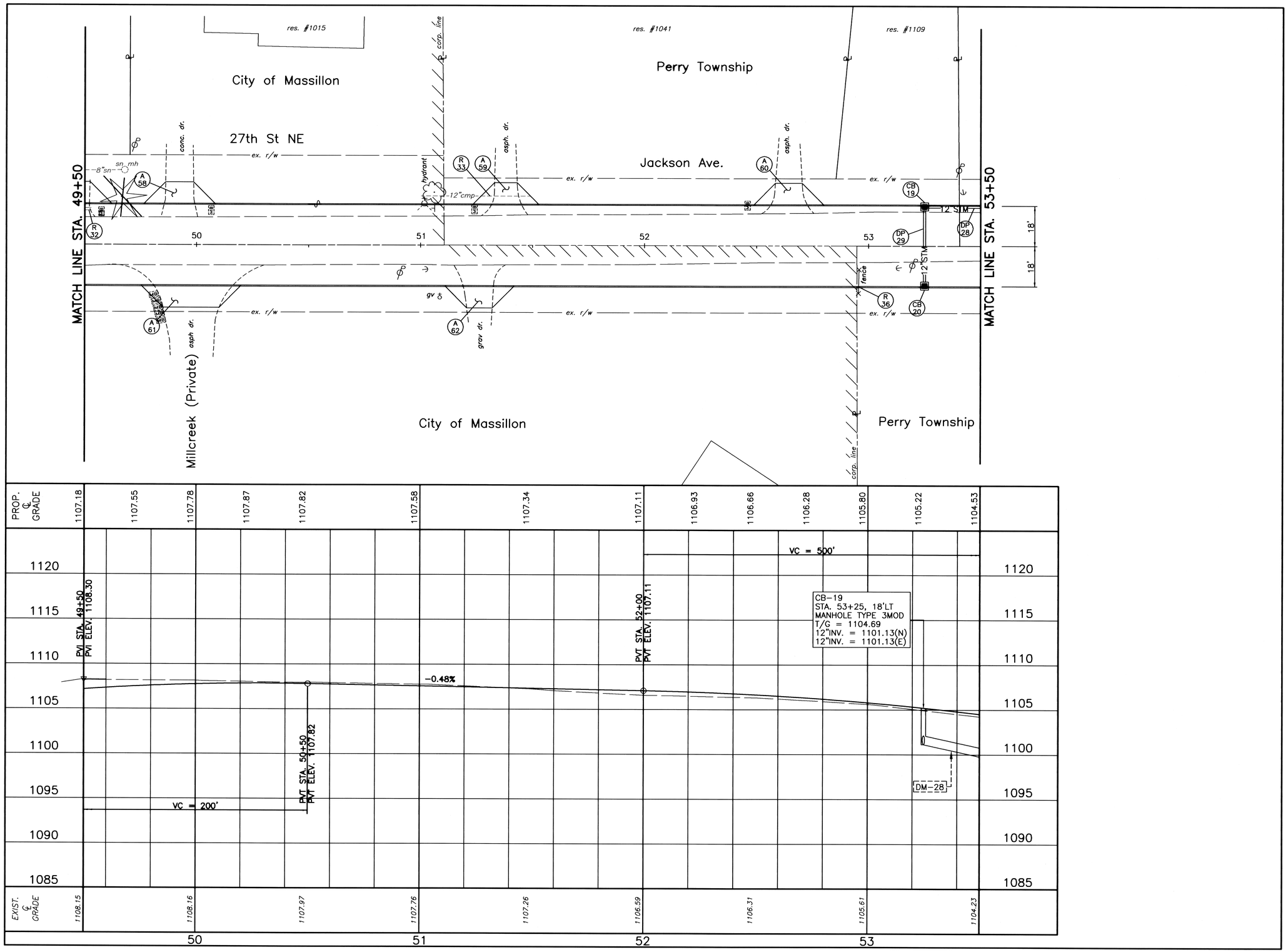
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05ST0323.DWG

ACCOUNT NUMBER 05ST03



NW NE SW SE N

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 49+50 to Sta. 53+50

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

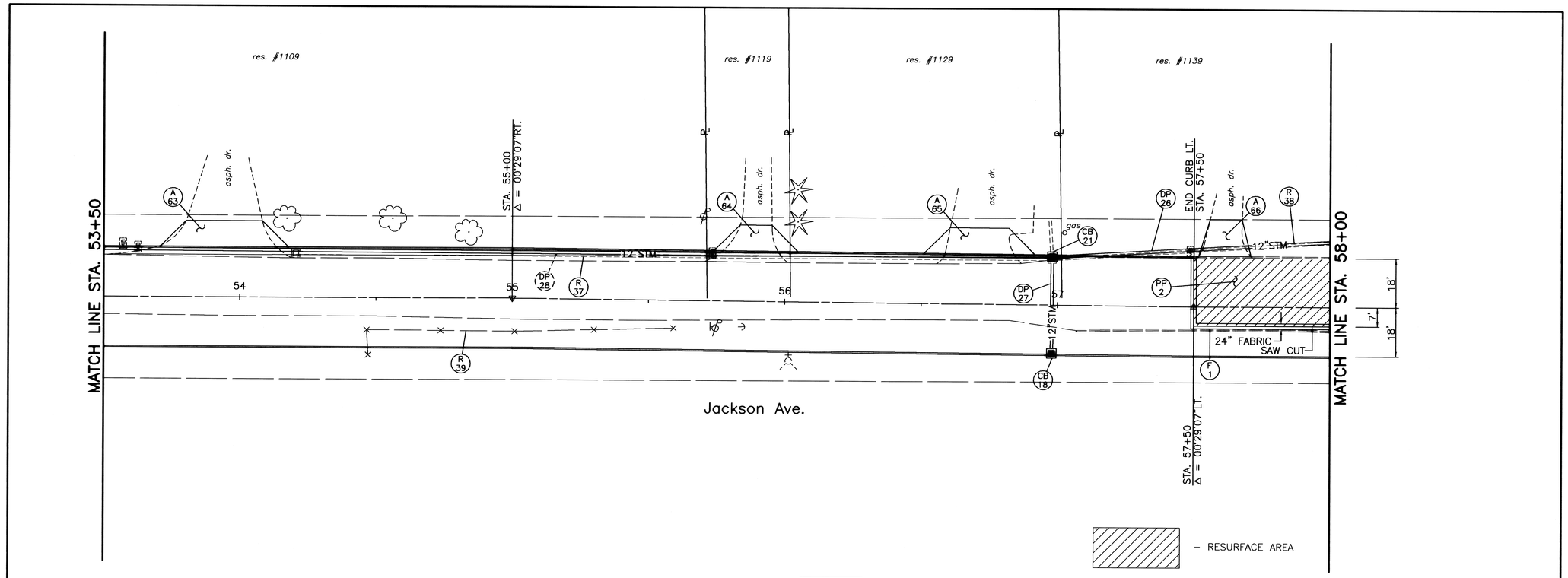
Massillon
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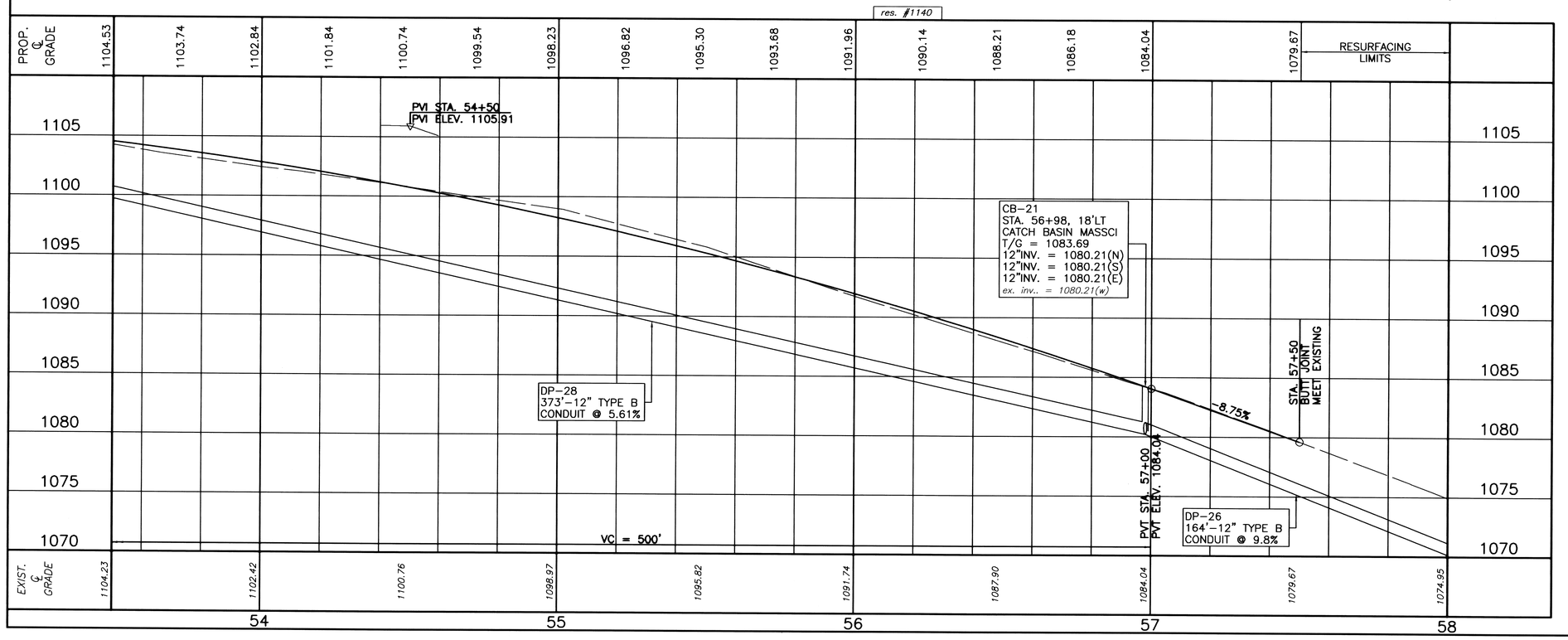
REVISIONS:

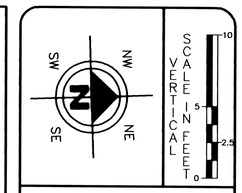
DATE	DESCRIPTION

FILE NAME: 05st0324.DWG

ACCOUNT NUMBER: 05ST03







20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 53+50 to Sta. 58+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

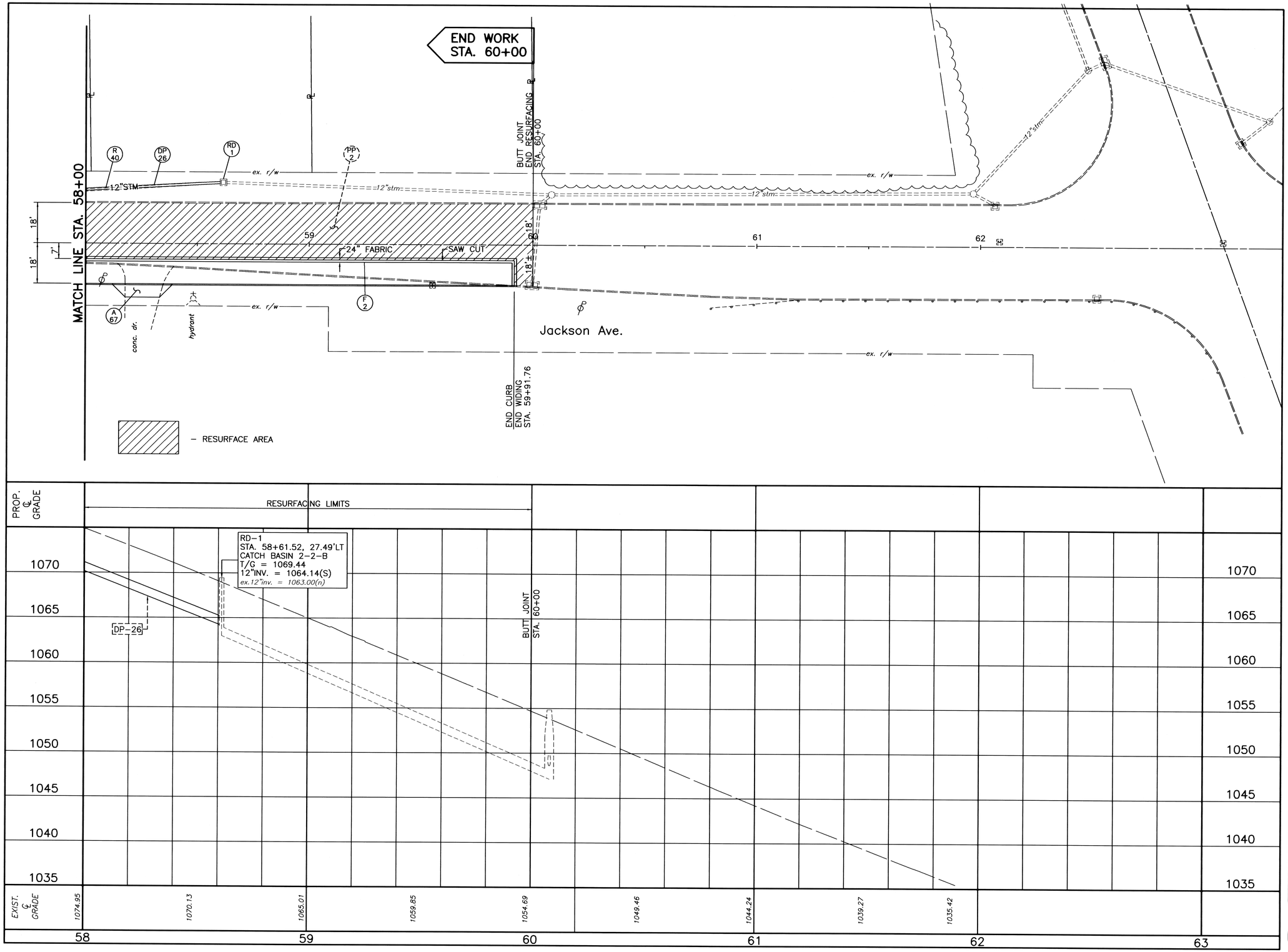
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0325.DWG

ACCOUNT NUMBER 05ST03



N NW NE SW SE

VERTICAL SCALE IN FEET
10
5
2.5
0

20 10 0 20
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Plan and Profile Sta. 58+00 to Sta. 63+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

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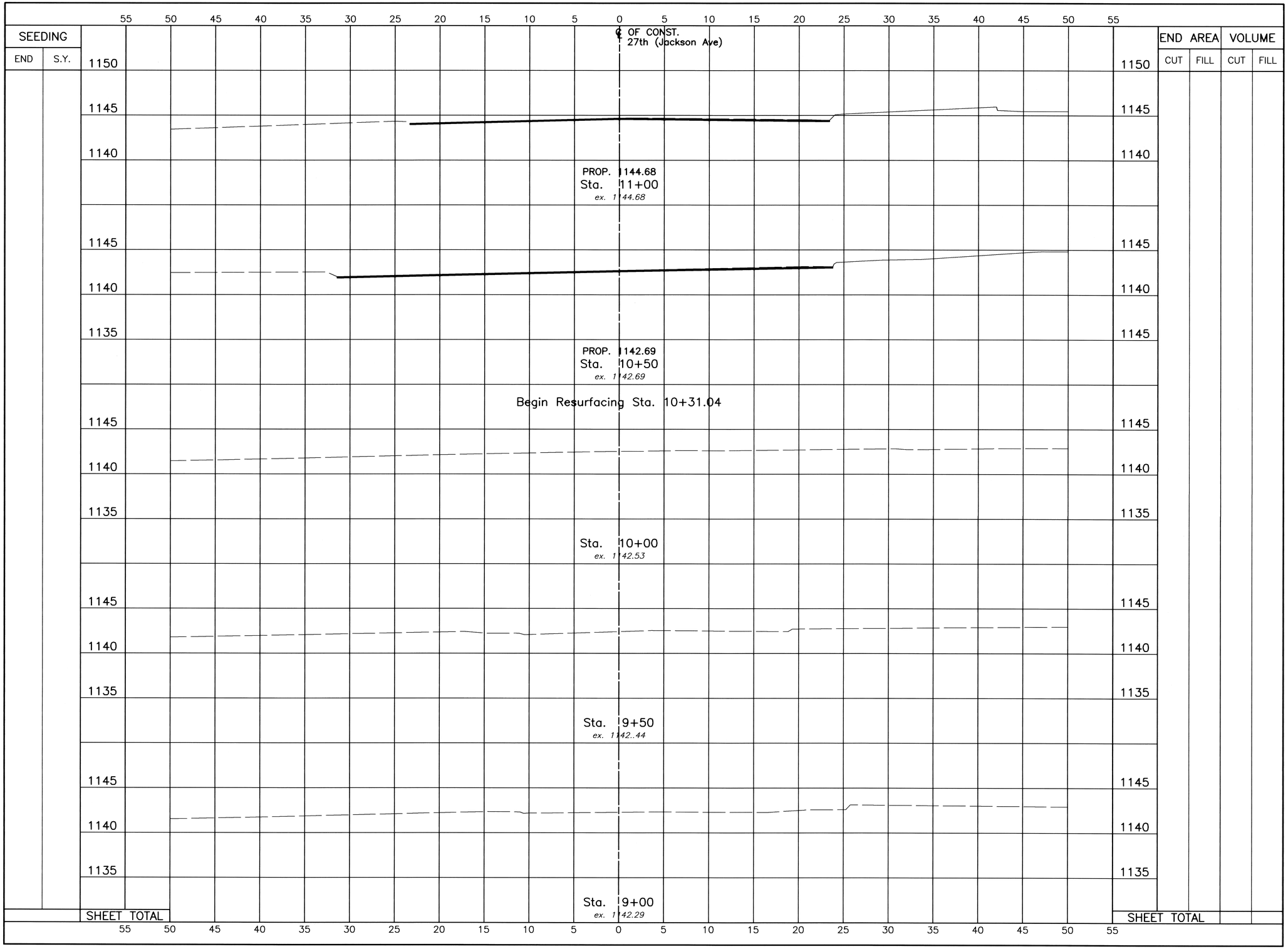
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0326.DWG

ACCOUNT NUMBER: 05st03

SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL



SHEET TOTAL

SHEET TOTAL

VERTICAL SCALE IN FEET
10 5 2.5 0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

(Sta. 8+00 to Sta. 12+00)

Cross Section

27th (Jackson Ave.)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

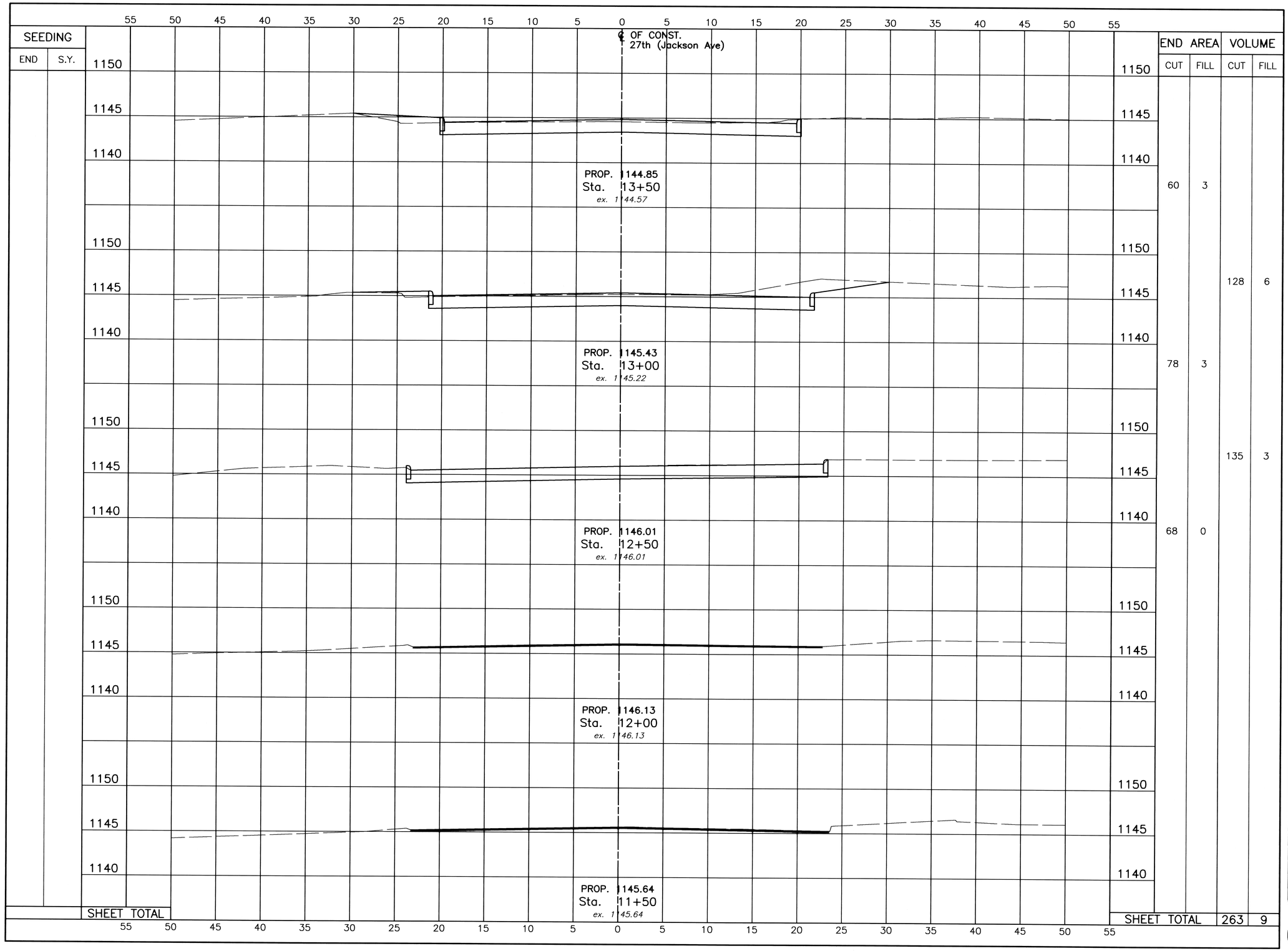
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0327.DWG

ACCOUNT NUMBER
05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		60	3		
		78	3	128	6
		68	0	135	3
SHEET TOTAL				263	9

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5 2.5 0 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 11+50 to Sta. 13+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

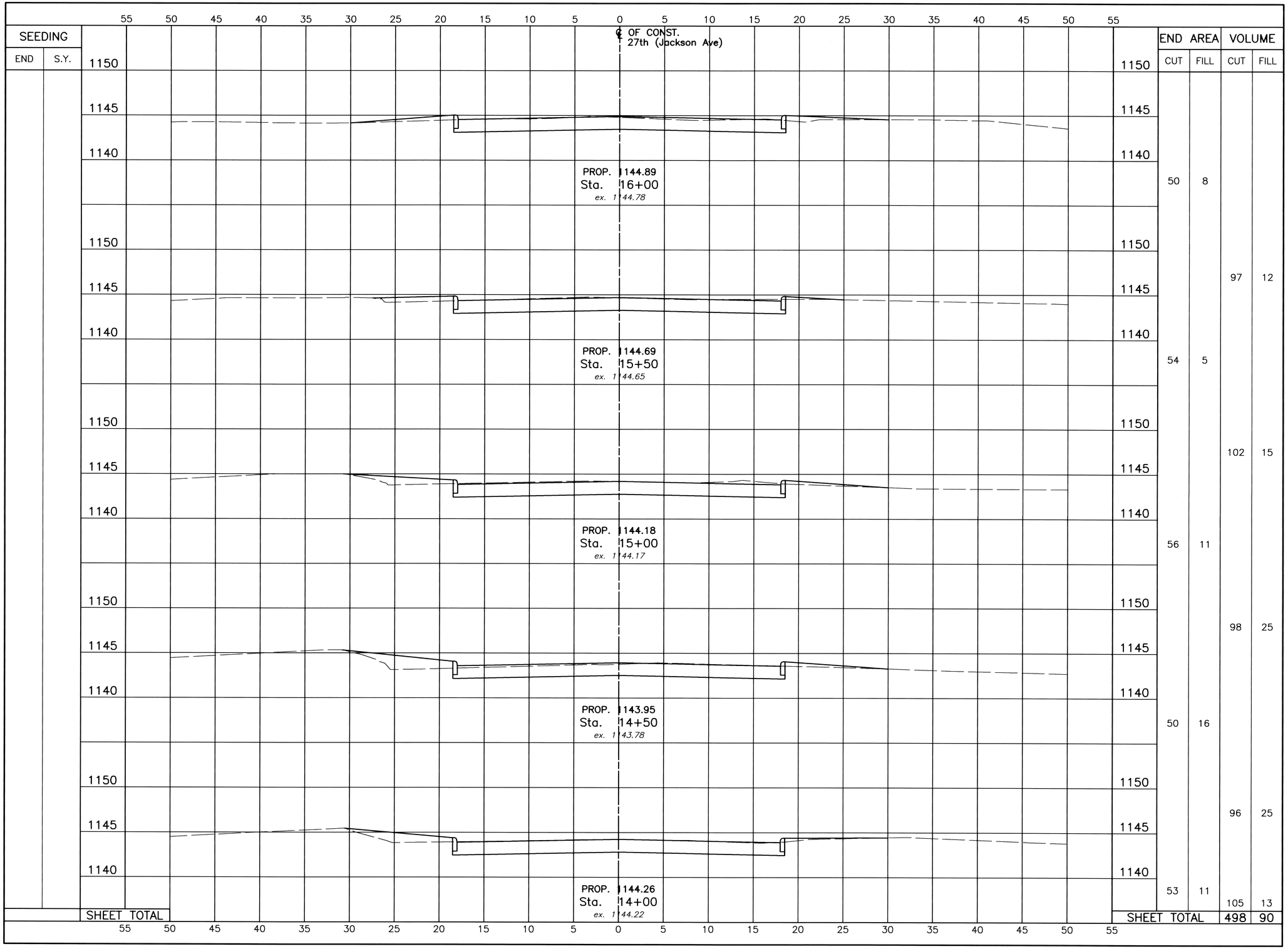
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0328.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		50	8	97	12
		54	5	102	15
		56	11	98	25
		50	16	96	25
		53	11	105	13
SHEET TOTAL				498	90

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 14+00 to Sta. 16+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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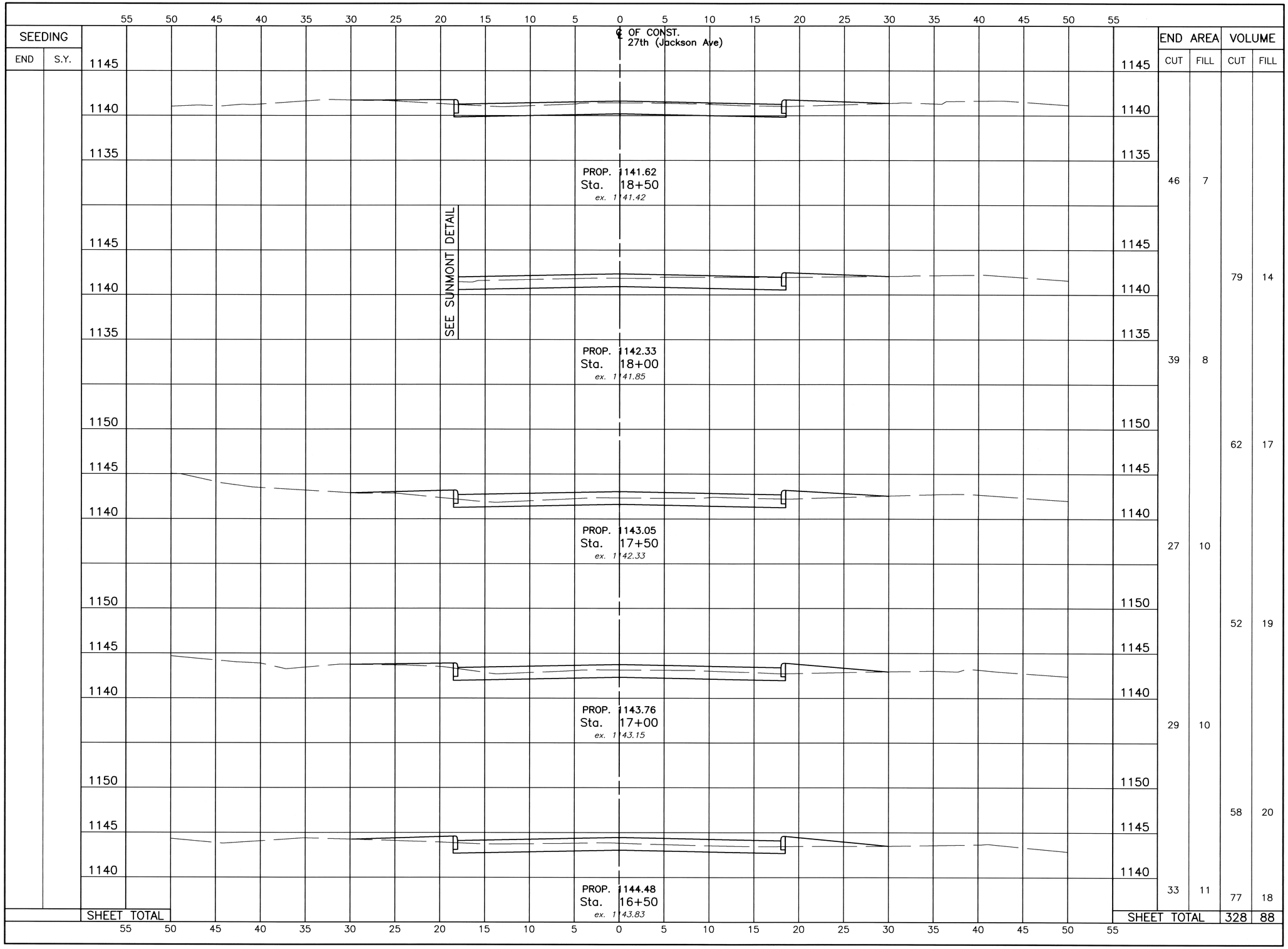
REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0329.DWG

ACCOUNT NUMBER: 05st03

SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		46	7	79	14
		39	8	62	17
		27	10	52	19
		29	10	58	20
		33	11	77	18
SHEET TOTAL		SHEET TOTAL		328	88



VERTICAL SCALE IN FEET
10
5
2.5
0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 8+00 to Sta. 12+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

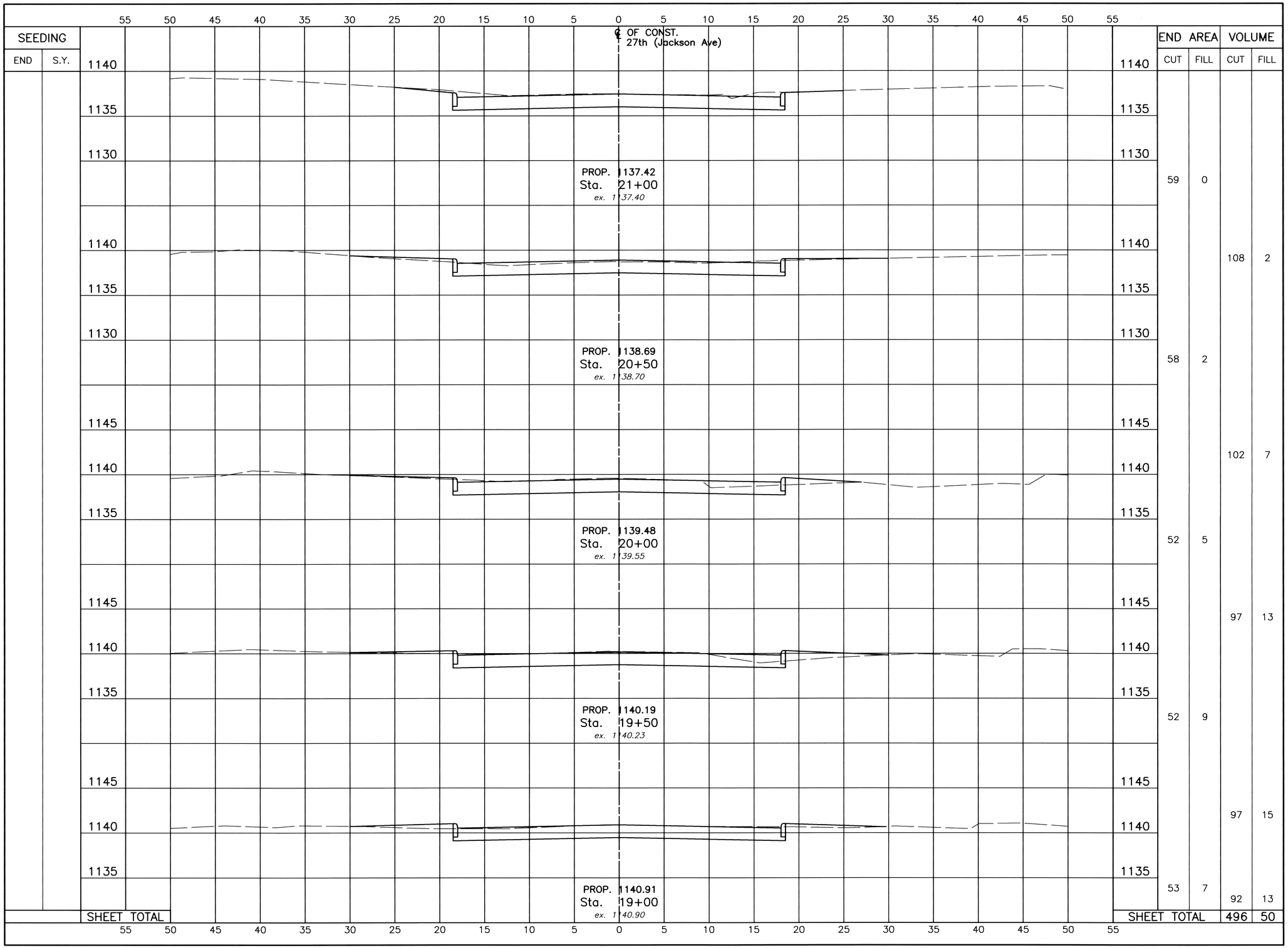
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0330.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		59	0		
				108	2
		58	2		
				102	7
		52	5		
				97	13
		52	9		
				97	15
		53	7		
				92	13
SHEET TOTAL				496	50

VERTICAL SCALE IN FEET
10
5
2.5
0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

(27th (Jackson Ave.) Cross Section (Sta. 19+00 to Sta. 21+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

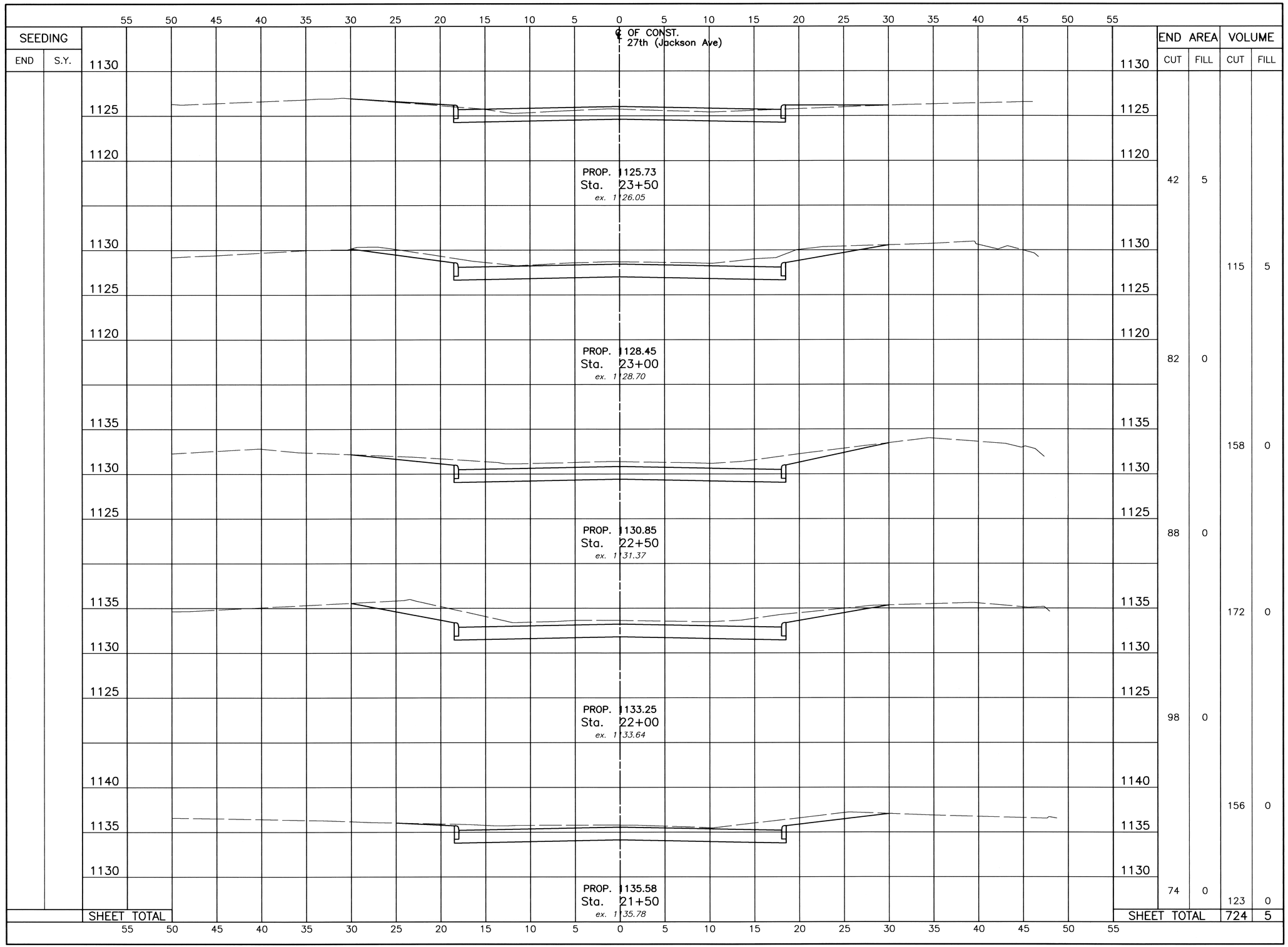
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0331.DWG

ACCOUNT NUMBER
05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		42	5		
				115	5
		82	0		
				158	0
		88	0		
				172	0
		98	0		
				156	0
		74	0	123	0
SHEET TOTAL				724	5

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 21+50 to Sta. 23+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

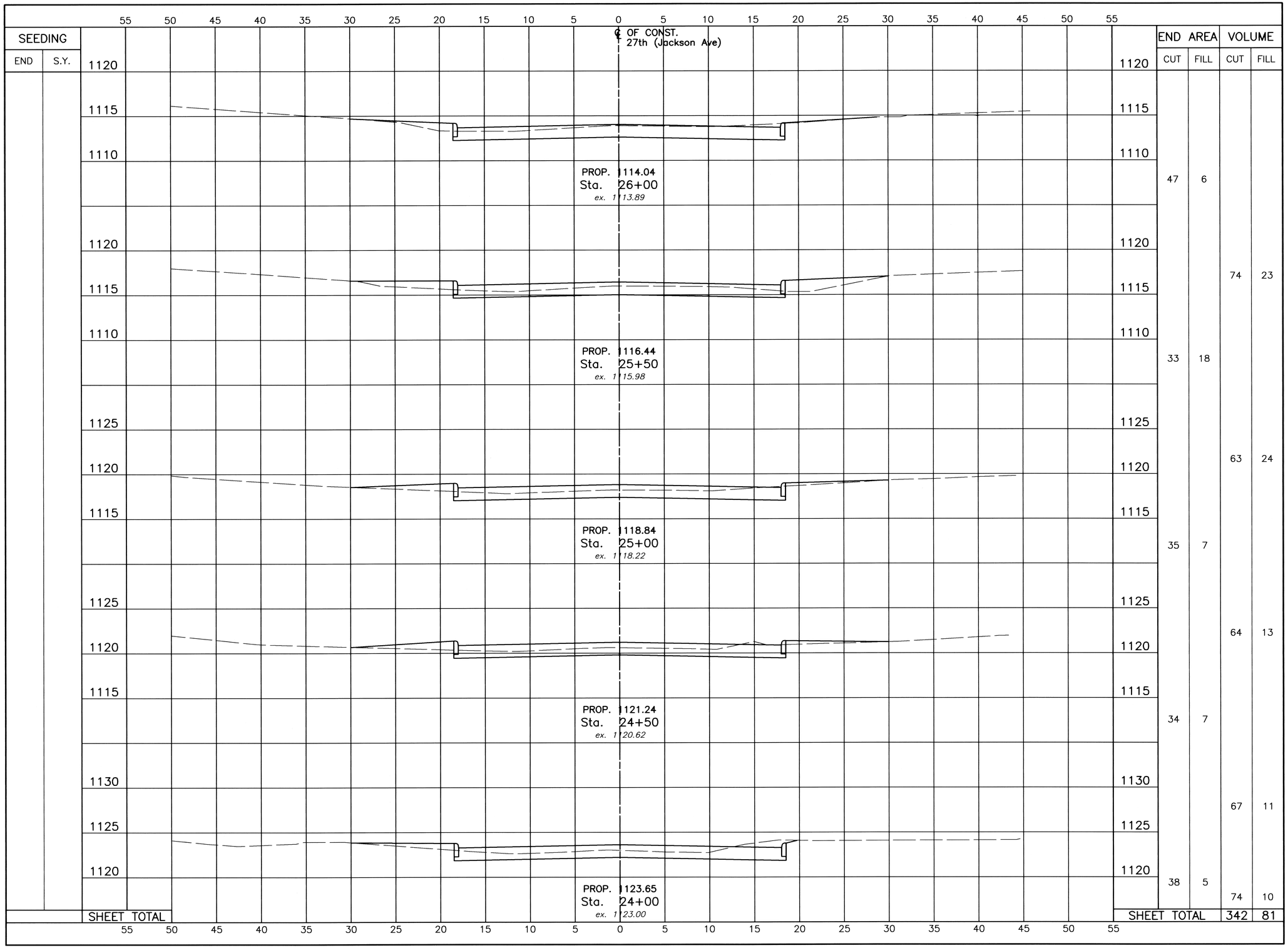
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0332.DWG

ACCOUNT NUMBER
05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		47	6		
				74	23
		33	18		
				63	24
		35	7		
				64	13
		34	7		
				67	11
		38	5		
				74	10
SHEET TOTAL		SHEET TOTAL		342	81

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 24+00 to Sta. 26+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

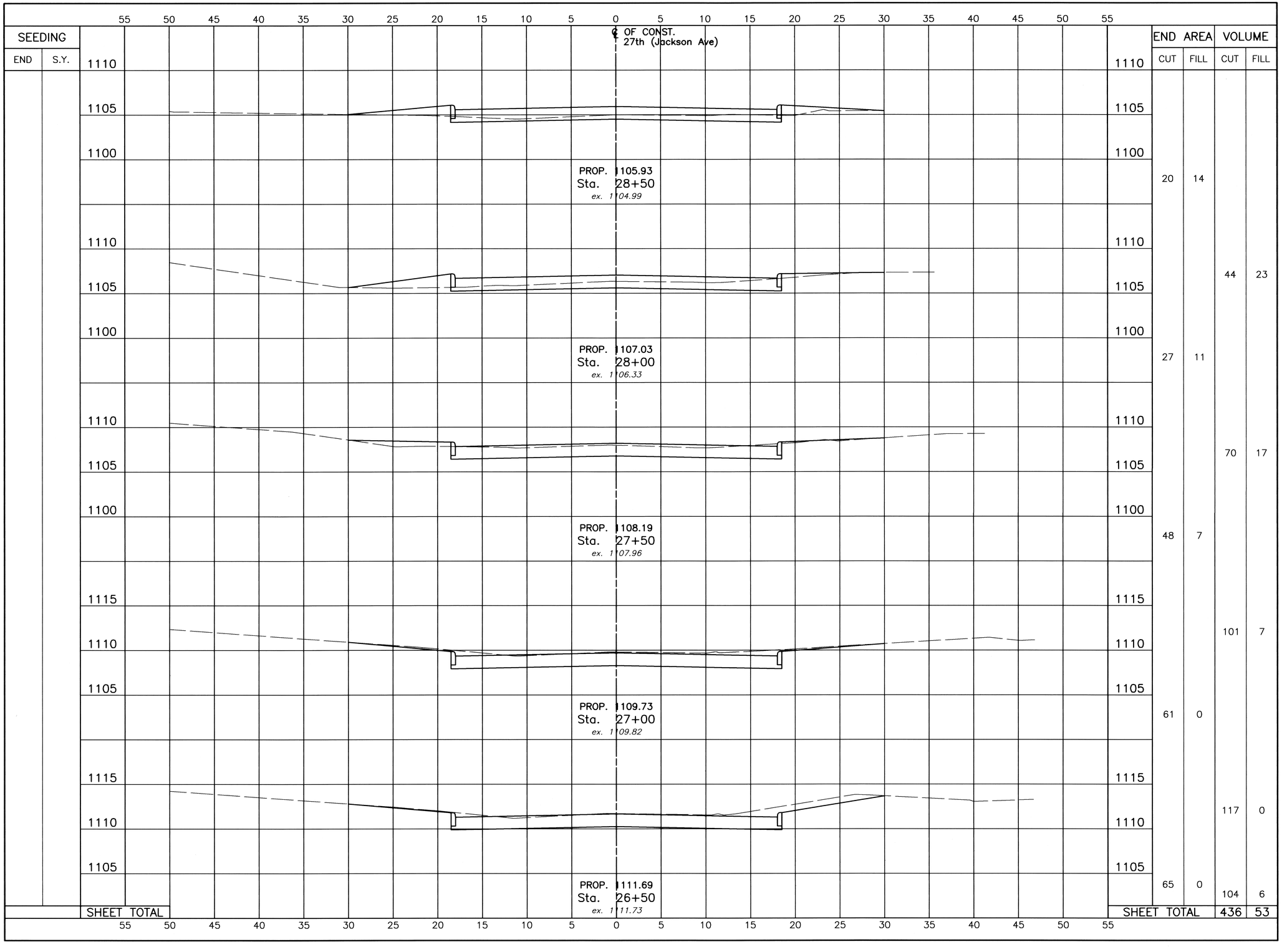
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0333..DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		20	14	44	23
		27	11	70	17
		48	7	101	7
		61	0	117	0
		65	0	104	6
SHEET TOTAL		SHEET TOTAL		436	53

VERTICAL SCALE IN FEET 10 5 2.5 0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 26+50 to Sta. 28+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

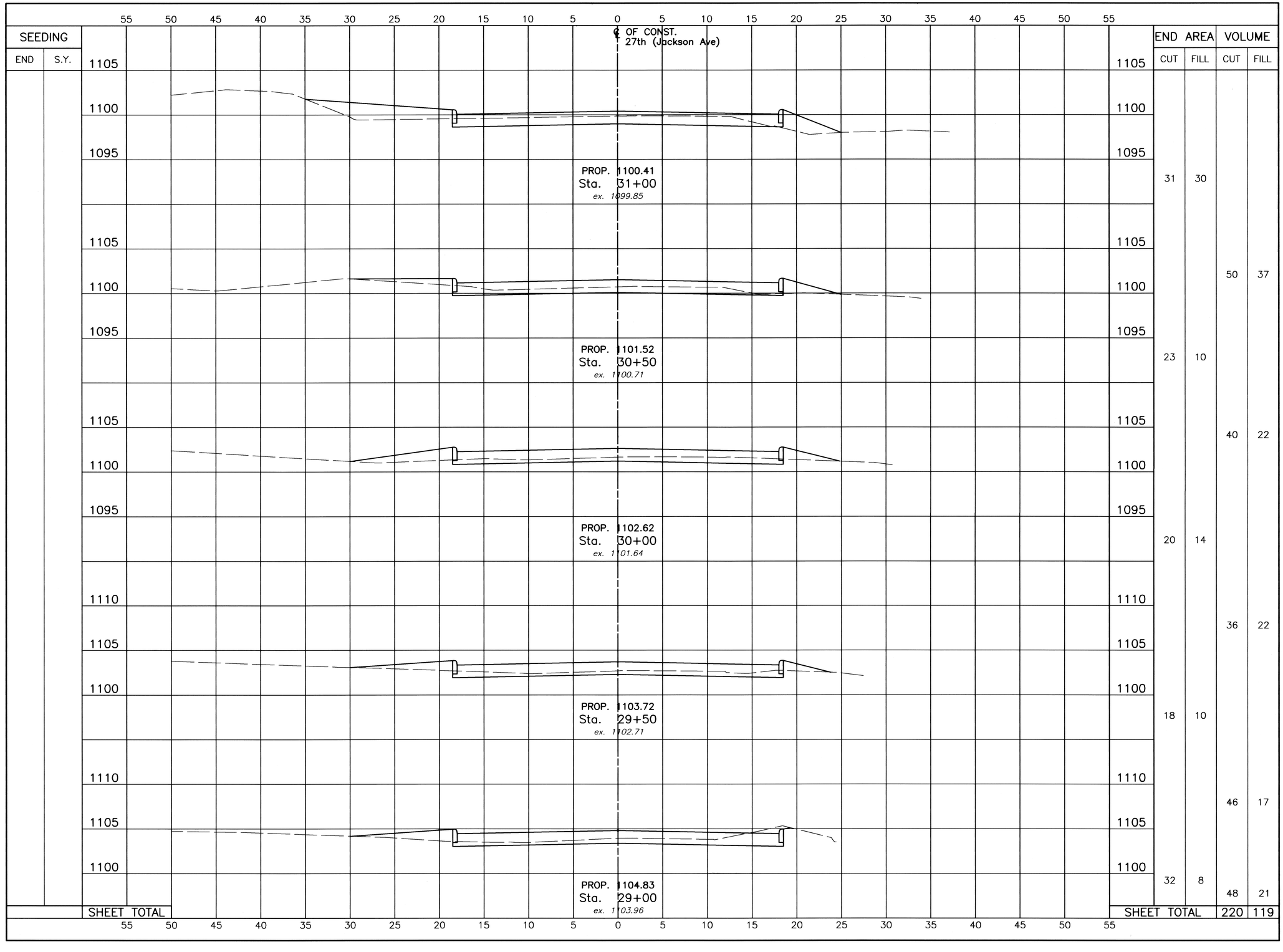
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0334.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		31	30	50	37
		23	10	40	22
		20	14	36	22
		18	10	46	17
		32	8	48	21
SHEET TOTAL				220	119

VERTICAL SCALE IN FEET 0 2.5 5 10

HORIZONTAL SCALE IN FEET 5 2.5 0 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 29+00 to Sta. 31+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

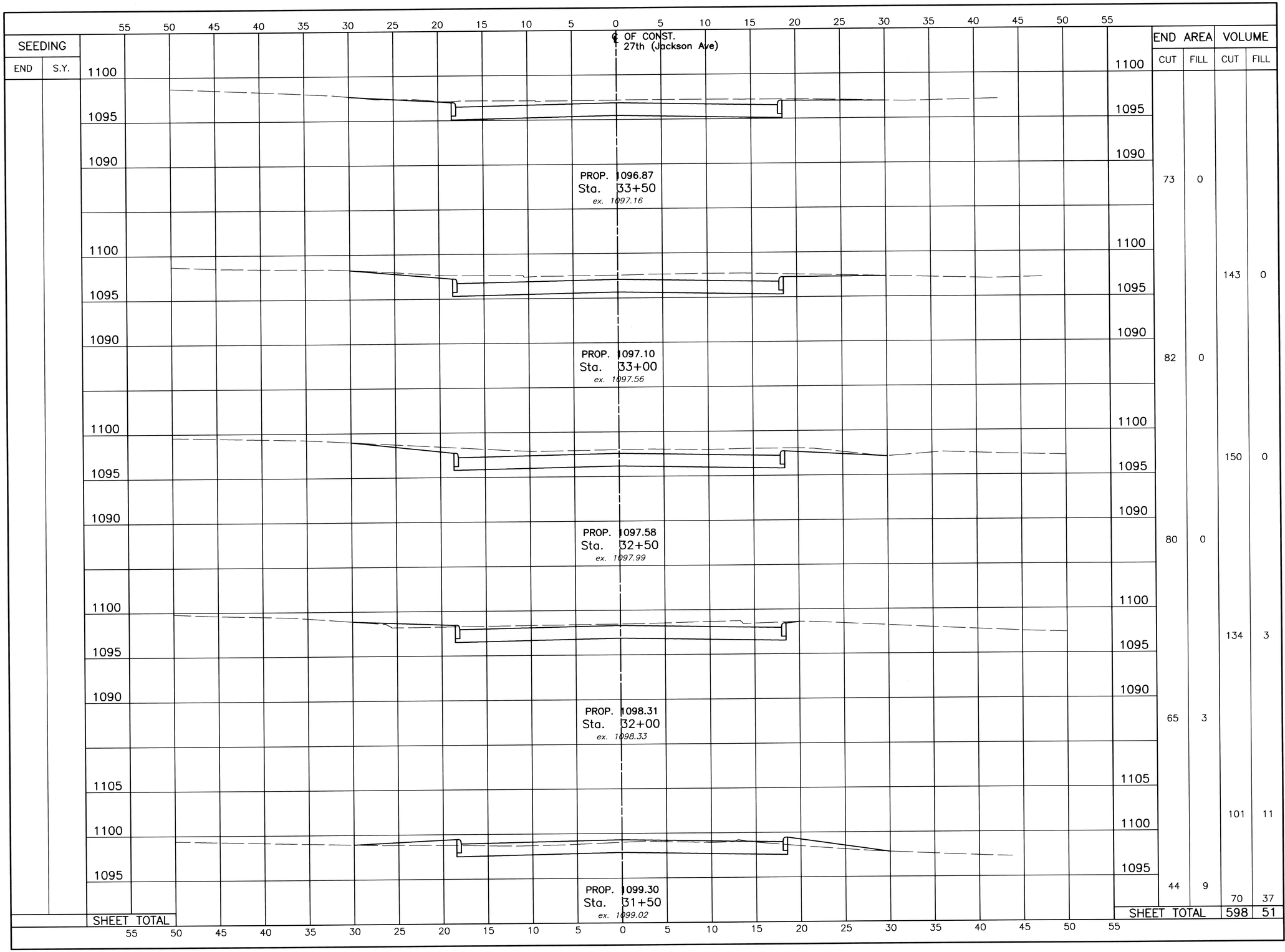
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0335.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		73	0		
				143	0
		82	0		
				150	0
		80	0		
				134	3
		65	3		
				101	11
		44	9		
				70	37
SHEET TOTAL				598	51

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 31+50 to Sta. 33+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

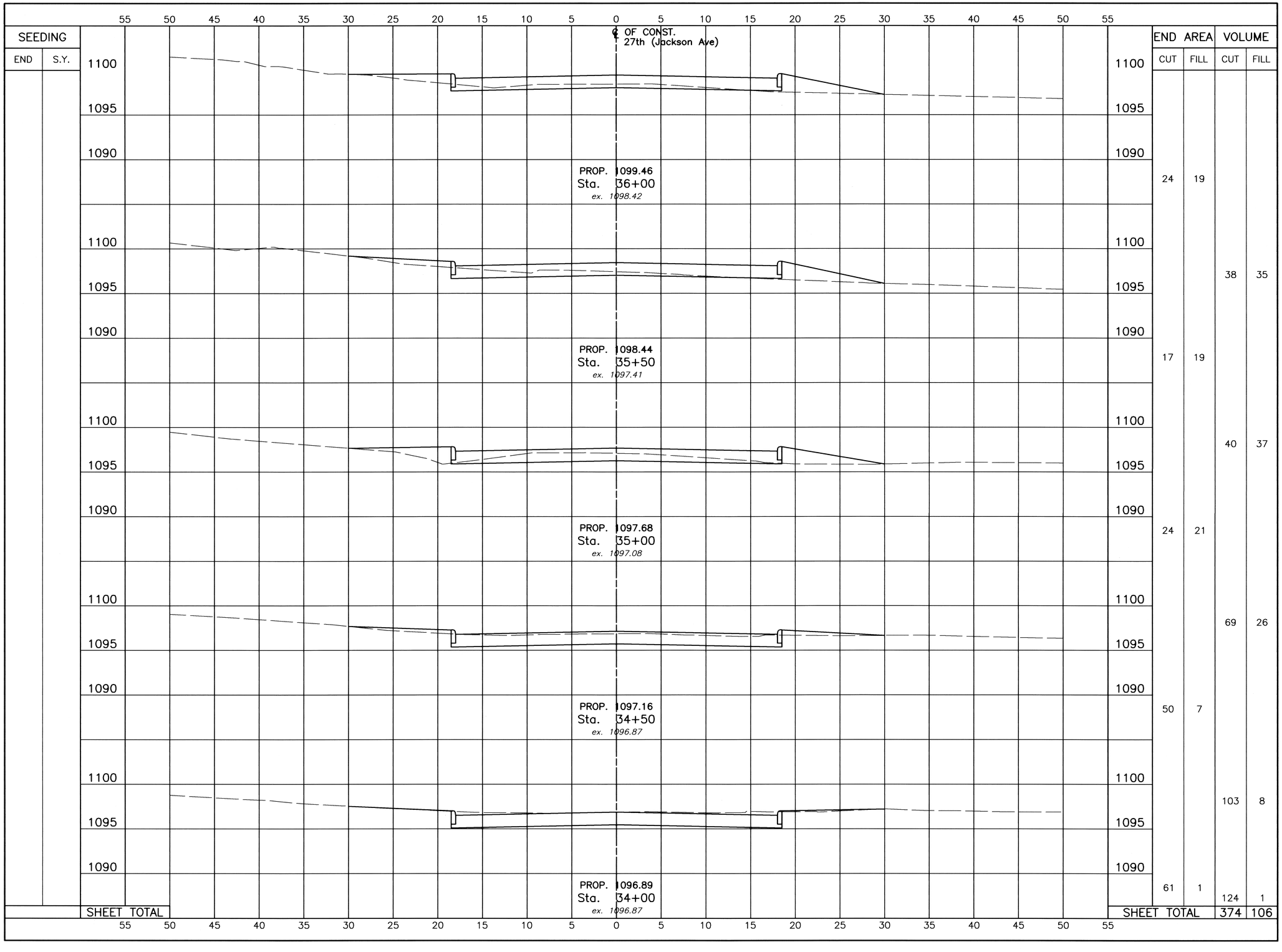
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0336.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		24	19	38	35
		17	19	40	37
		24	21	69	26
		50	7	103	8
		61	1	124	1
SHEET TOTAL		SHEET TOTAL		374	106

VERTICAL SCALE IN FEET 0 2.5 5 10

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 34+00 to Sta. 36+00)

City of Massillon
Stark County, Ohio

27th (Jackson Ave.) Cross Section

Francis H. Cicchinelli, Jr.
Mayor

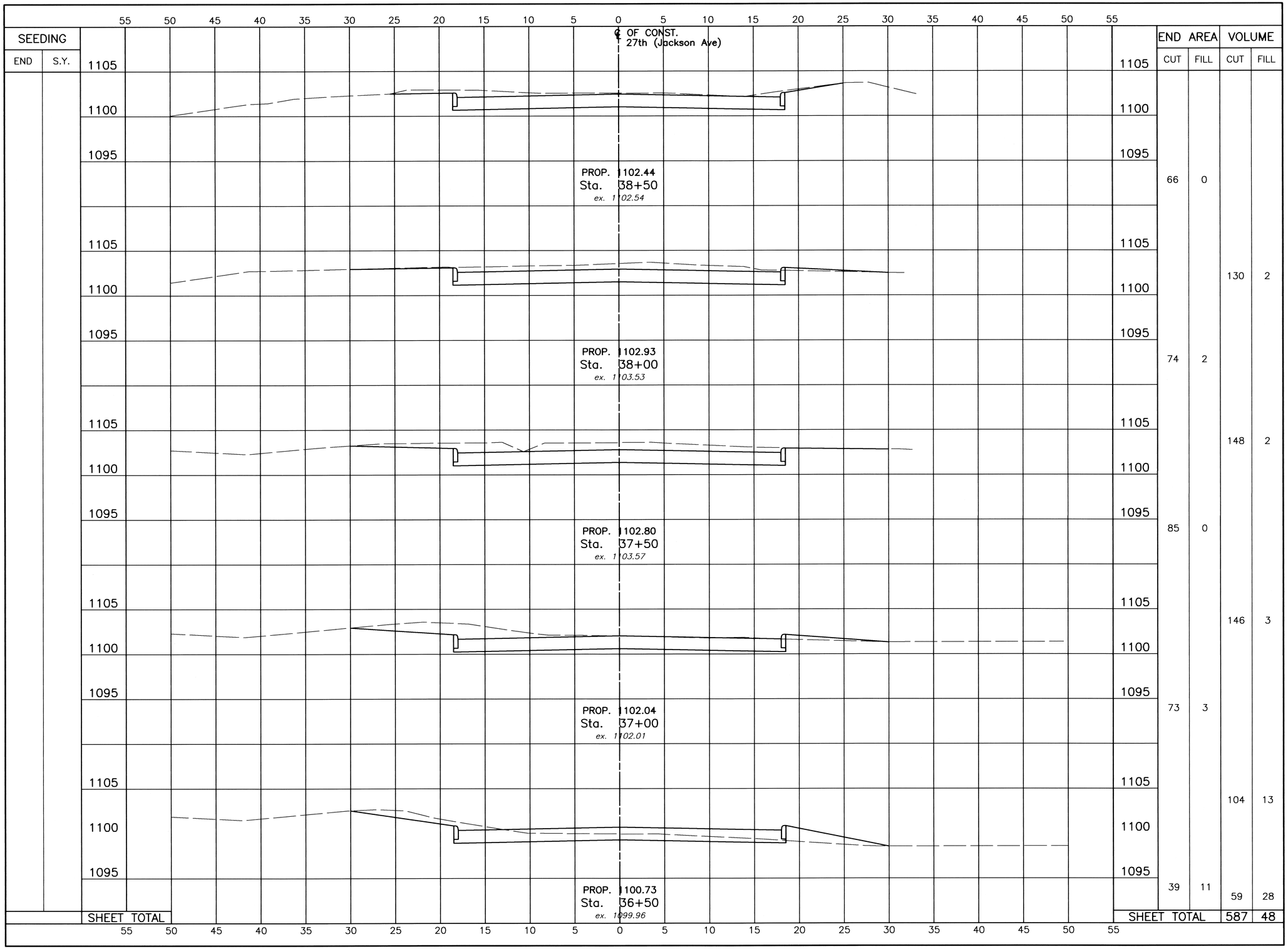
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0337.DWG

ACCOUNT NUMBER
05st03



SEEDING			END AREA		VOLUME	
END	S.Y.		CUT	FILL	CUT	FILL
			66	0		
					130	2
			74	2		
					148	2
			85	0		
					146	3
			73	3		
					104	13
			39	11	59	28
		SHEET TOTAL			587	48

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 36+50 to Sta. 38+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

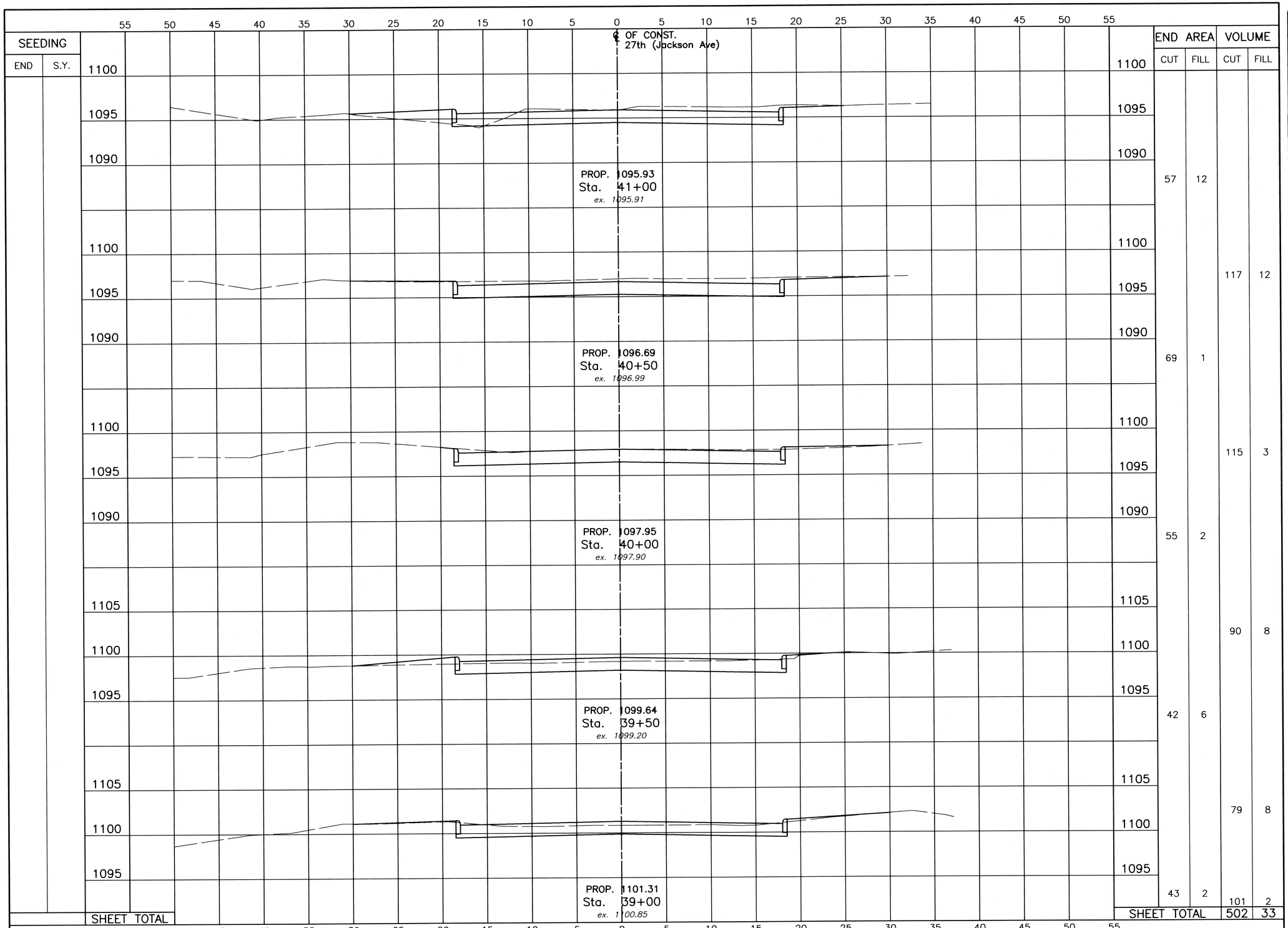
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0338.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		57	12		
				117	12
		69	1		
				115	3
		55	2		
				90	8
		42	6		
				79	8
		43	2	101	2
SHEET TOTAL				502	33

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 39+00 to Sta. 41+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

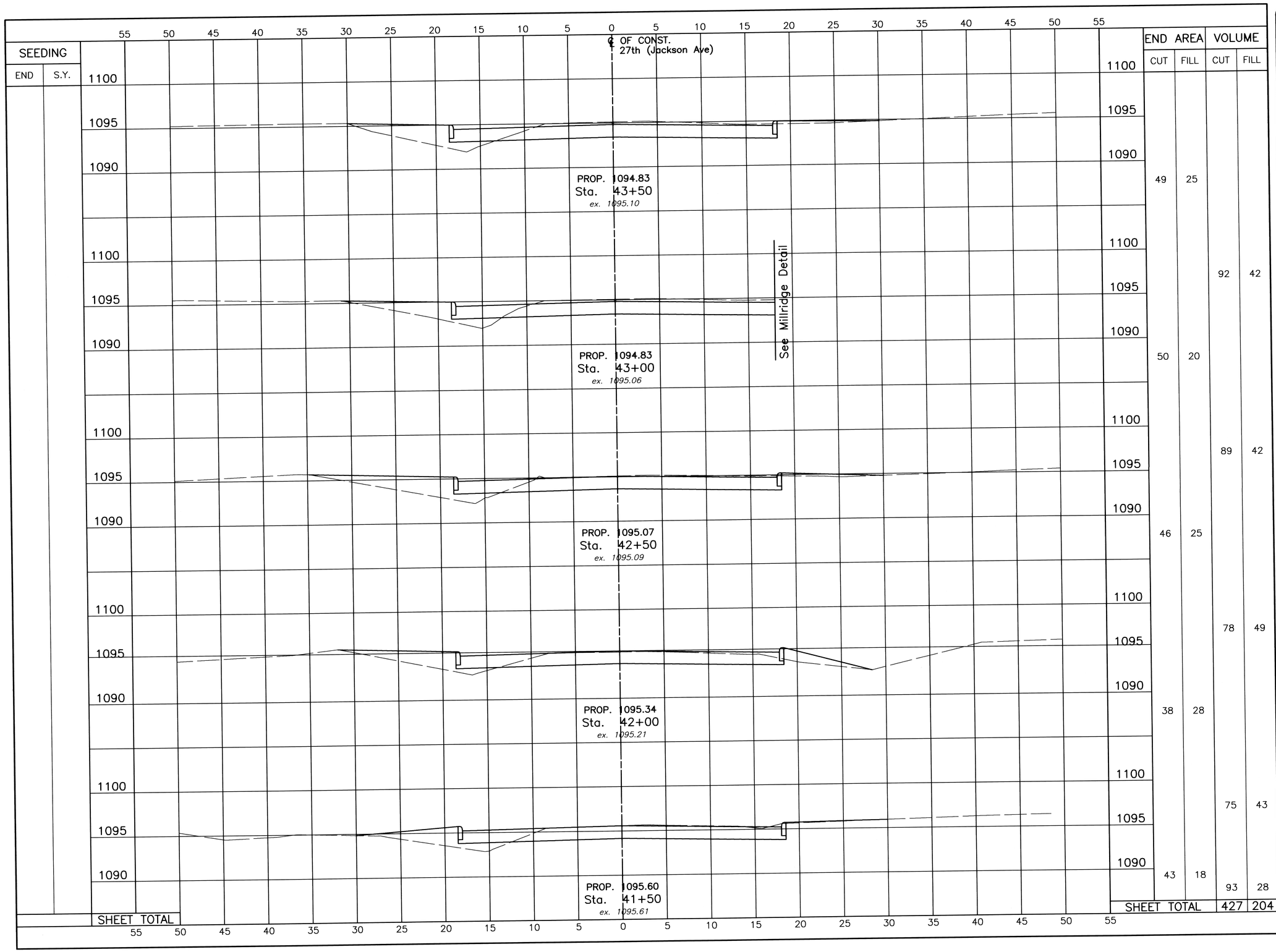
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0339.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		49	25	92	42
		50	20	89	42
		46	25	78	49
		38	28	75	43
		43	18	93	28
SHEET TOTAL				427	204

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 41+50 to Sta. 43+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

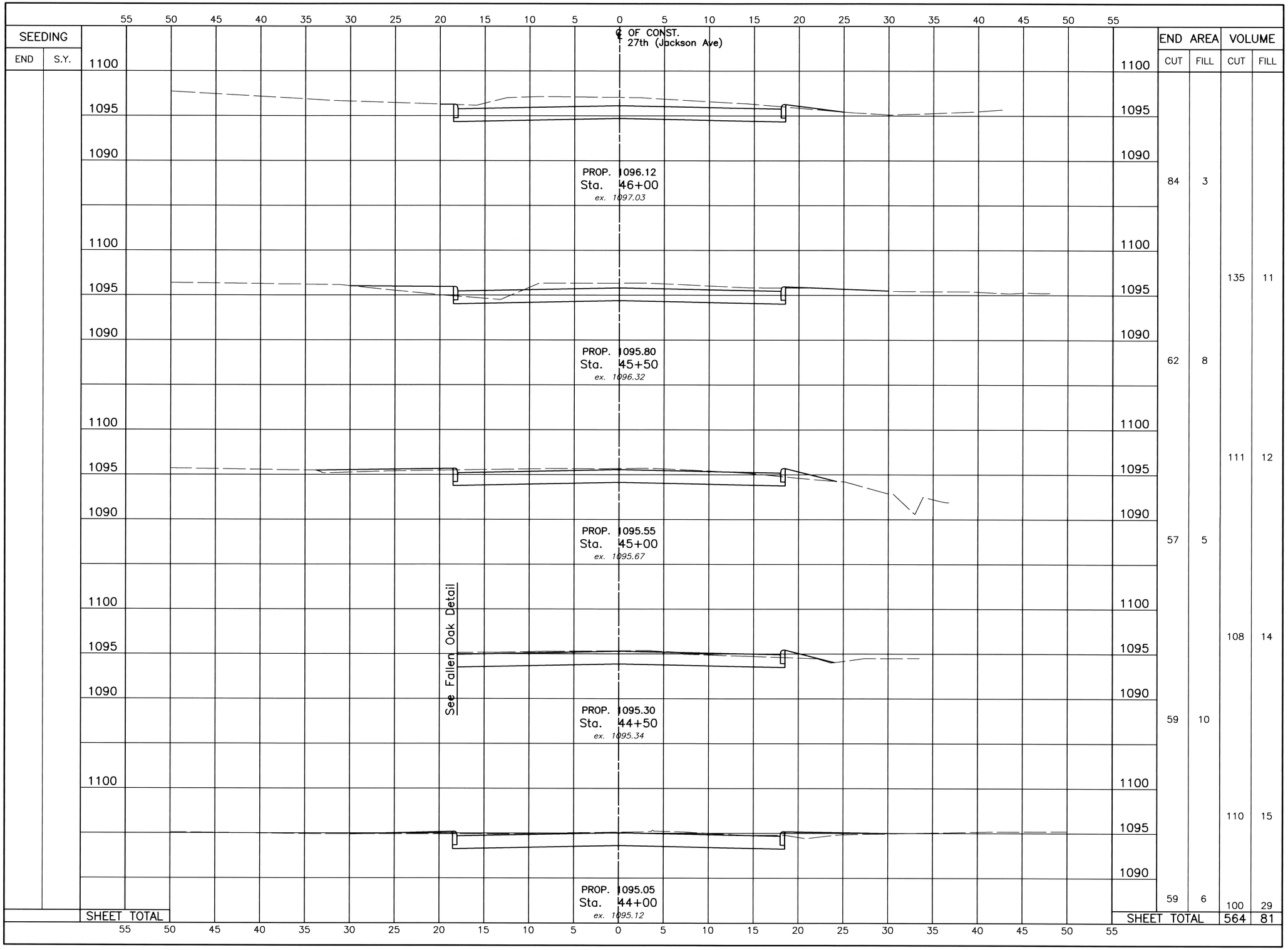
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0340.DWG

ACCOUNT NUMBER
05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		84	3	135	11
		62	8	111	12
		57	5	108	14
		59	10	110	15
		59	6	100	29
SHEET TOTAL		SHEET TOTAL		564	81

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 44+00 to Sta. 46+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

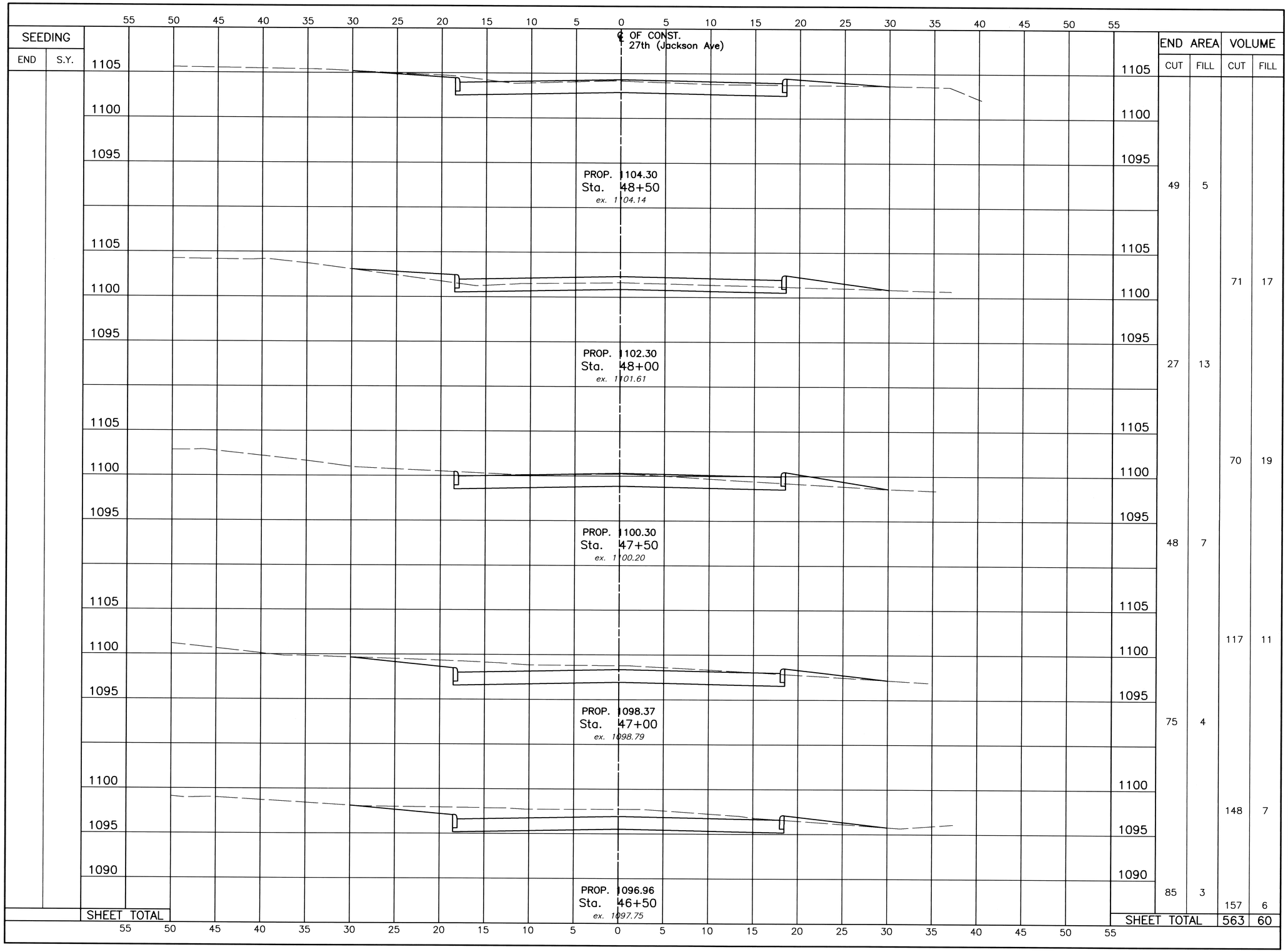
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0341.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		49	5	71	17
		27	13	70	19
		48	7	117	11
		75	4	148	7
		85	3	157	6
SHEET TOTAL				563	60

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 46+50 to Sta. 48+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

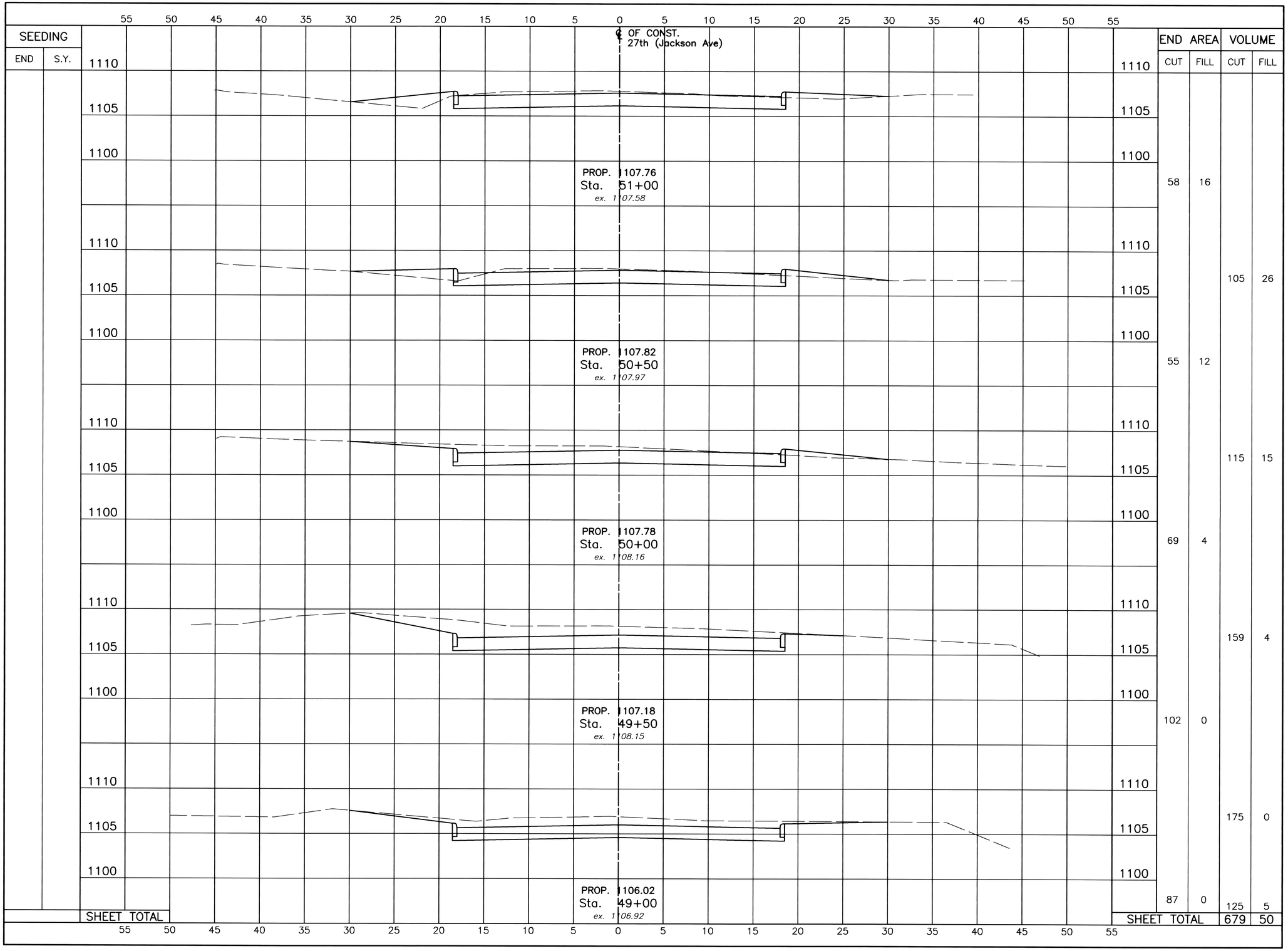
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0342.DWG

ACCOUNT NUMBER: 05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		58	16	105	26
		55	12	115	15
		69	4	159	4
		102	0	175	0
		87	0	125	5
SHEET TOTAL				679	50

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 8+00 to Sta. 12+00)

27th (Jackson Ave.)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

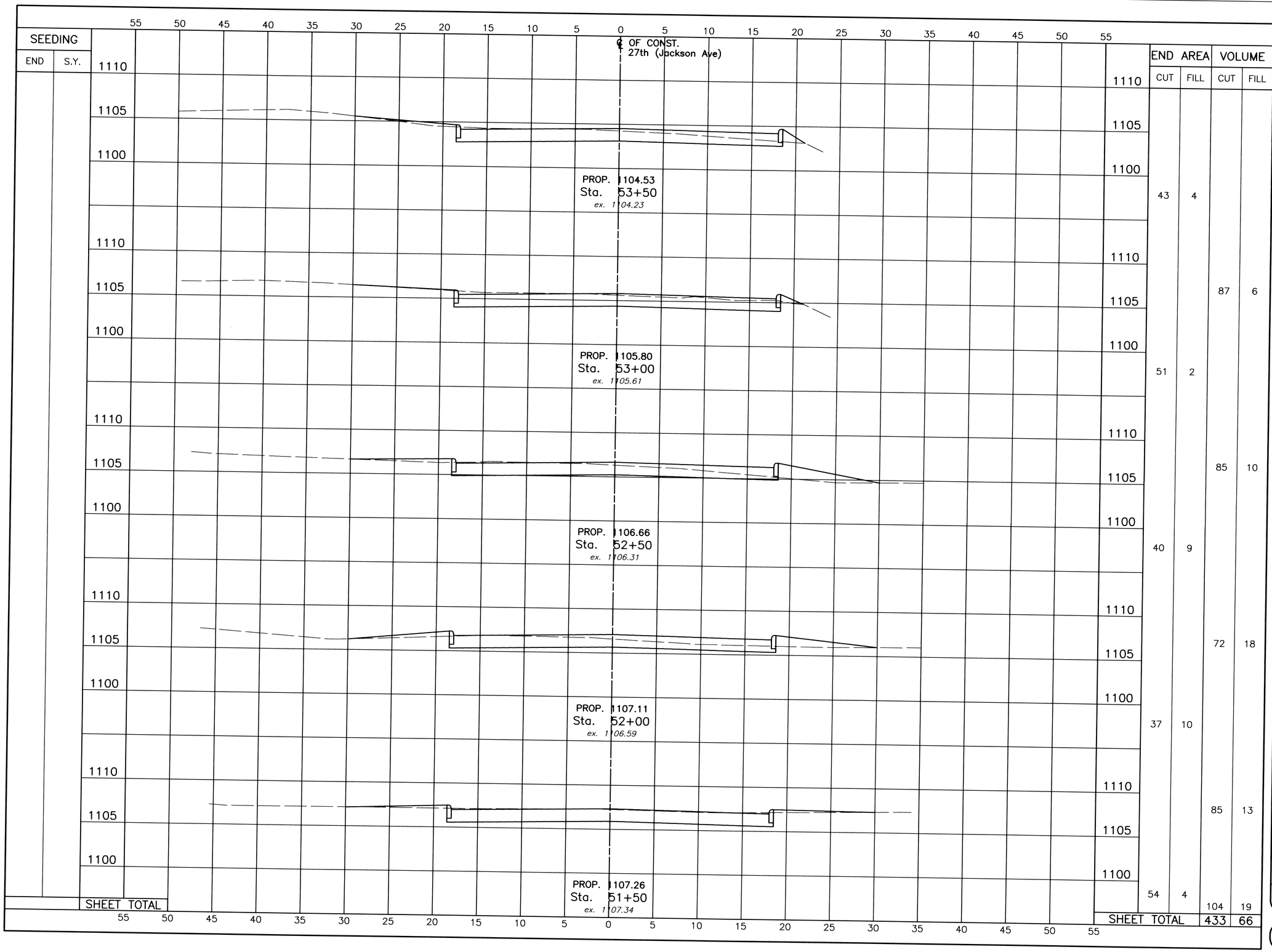
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0343.DWG

ACCOUNT NUMBER
05st03



SEEDING		END AREA		VOLUME	
END	S.Y.	CUT	FILL	CUT	FILL
		43	4		
				87	6
		51	2		
				85	10
		40	9		
				72	18
		37	10		
				85	13
		54	4		
				104	19
SHEET TOTAL				433	66

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 51+50 to Sta. 53+50)

City of Massillon
Stark County, Ohio

27th (Jackson Ave.)

Francis H. Cicchinelli, Jr.
Mayor

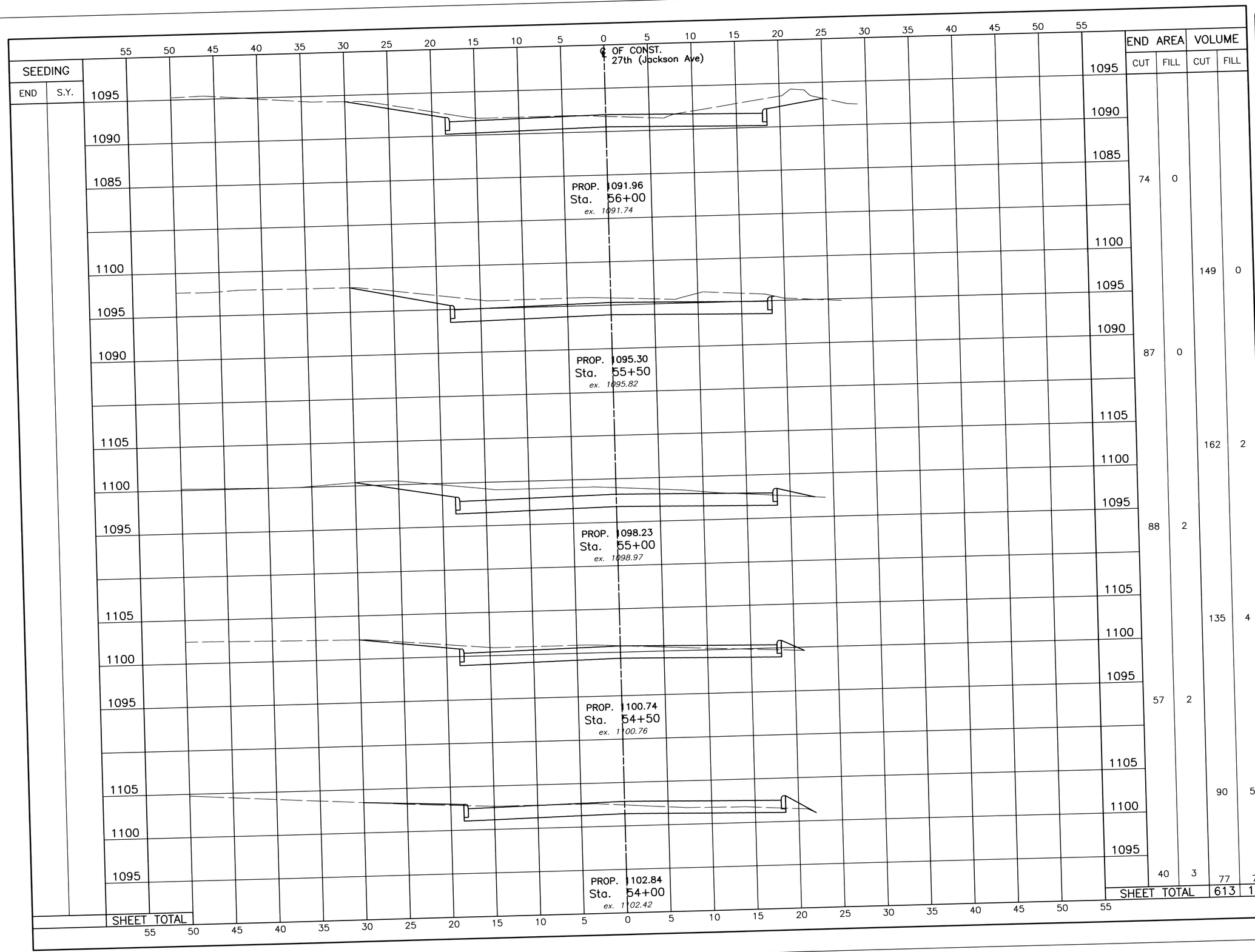
Massillon
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REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0344.DWG

ACCOUNT NUMBER: 05st03



VERTICAL SCALE IN FEET
10
5
2.5
0

HORIZONTAL SCALE IN FEET
5 2.5 0 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 54+00 to Sta. 56+00)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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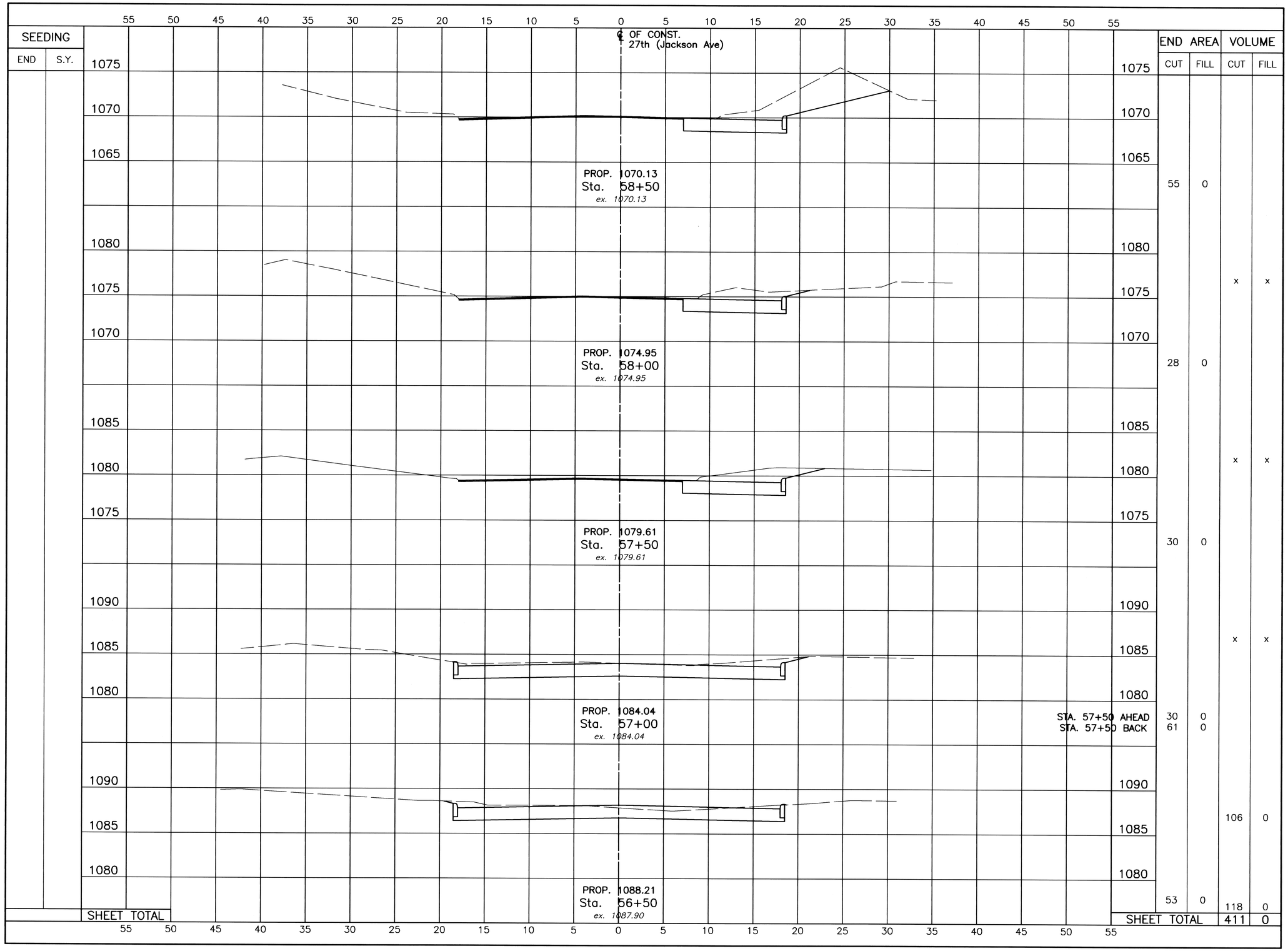
REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0345.DWG

ACCOUNT NUMBER
05st03

SEEDING			END AREA		VOLUME	
END	S.Y.		CUT	FILL	CUT	FILL
			55	0		
					x	x
			28	0		
					x	x
			30	0		
					x	x
		STA. 57+50 AHEAD	30	0		
		STA. 57+50 BACK	61	0		
					106	0
			53	0	118	0
	SHEET TOTAL				411	0



VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

27th (Jackson Ave.) Cross Section (Sta. 56+50 to Sta. 58+50)

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
Means More!

REVISIONS:	
DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0346.DWG

ACCOUNT NUMBER: 05st03

SEEDING			END AREA		VOLUME	
END	S.Y.		CUT	FILL	CUT	FILL
		℄ OF CONST. 27th (Jackson Ave)				
		PROP. 1044.24 Sta. 61+00 *ex. 1044.24*				
		PROP. 1049.46 Sta. 60+50 *ex. 1049.46*				
		PROP. 1054.69 Sta. 60+00 *ex. 1054.69*				
		END RESURFACING STA. 60+00				
		END WIDING STA. 59+91.76	21	0		
					39	0
		PROP. 1059.85 Sta. 59+50 *ex. 1059.85*	21	0		
					40	0
		PROP. 1065.01 Sta. 59+00 *ex. 1065.01*	22	0	72	0
	SHEET TOTAL				151	0
			GRAND TOTAL		9209	1212

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept., 2005	DATE: Oct., 2005

27th (Jackson Ave.) Widening

Cross Section (Sta. 59+00 to Sta. 61+00)

27th (Jackson Ave.)

City of Massillon

Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

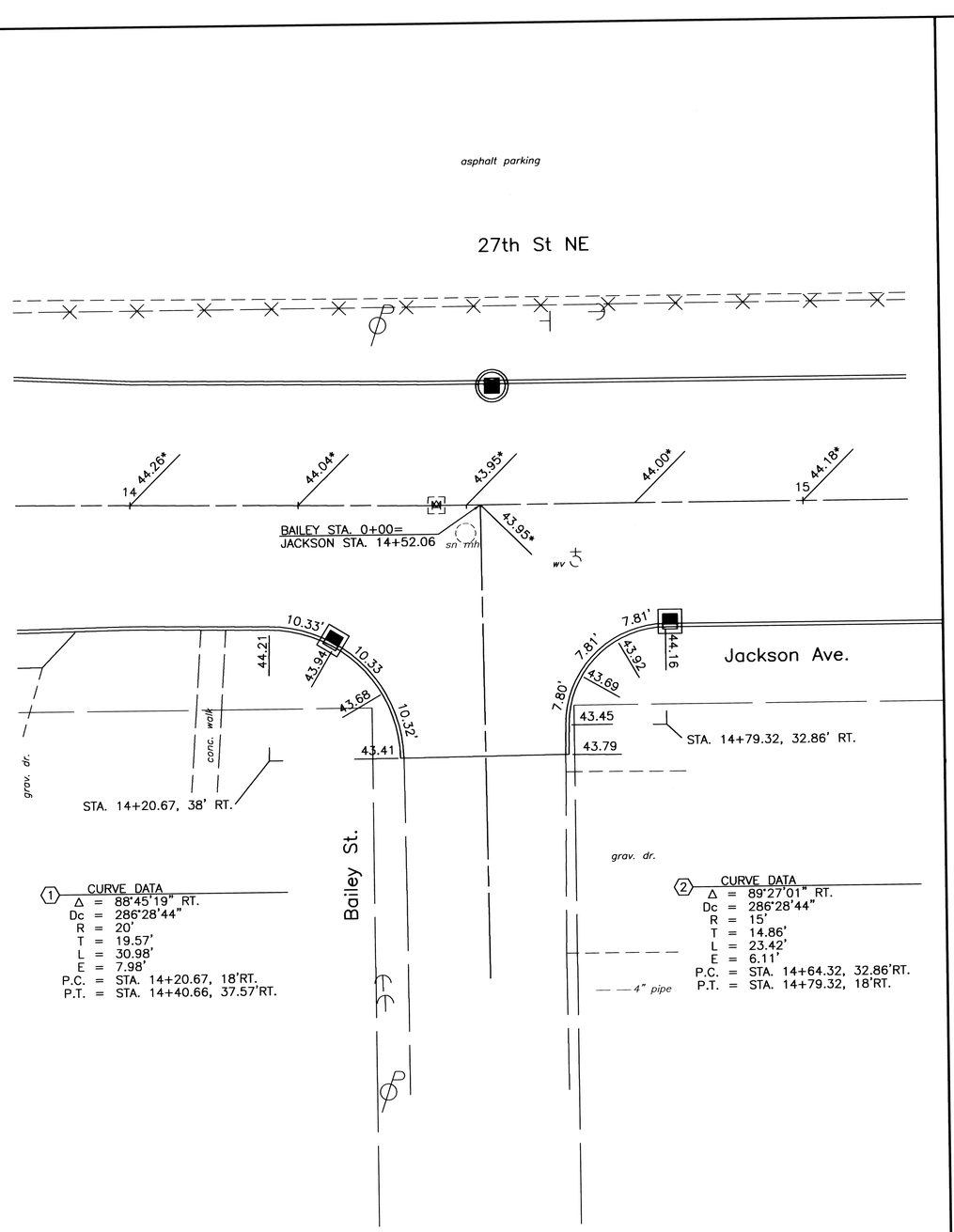
Massillon
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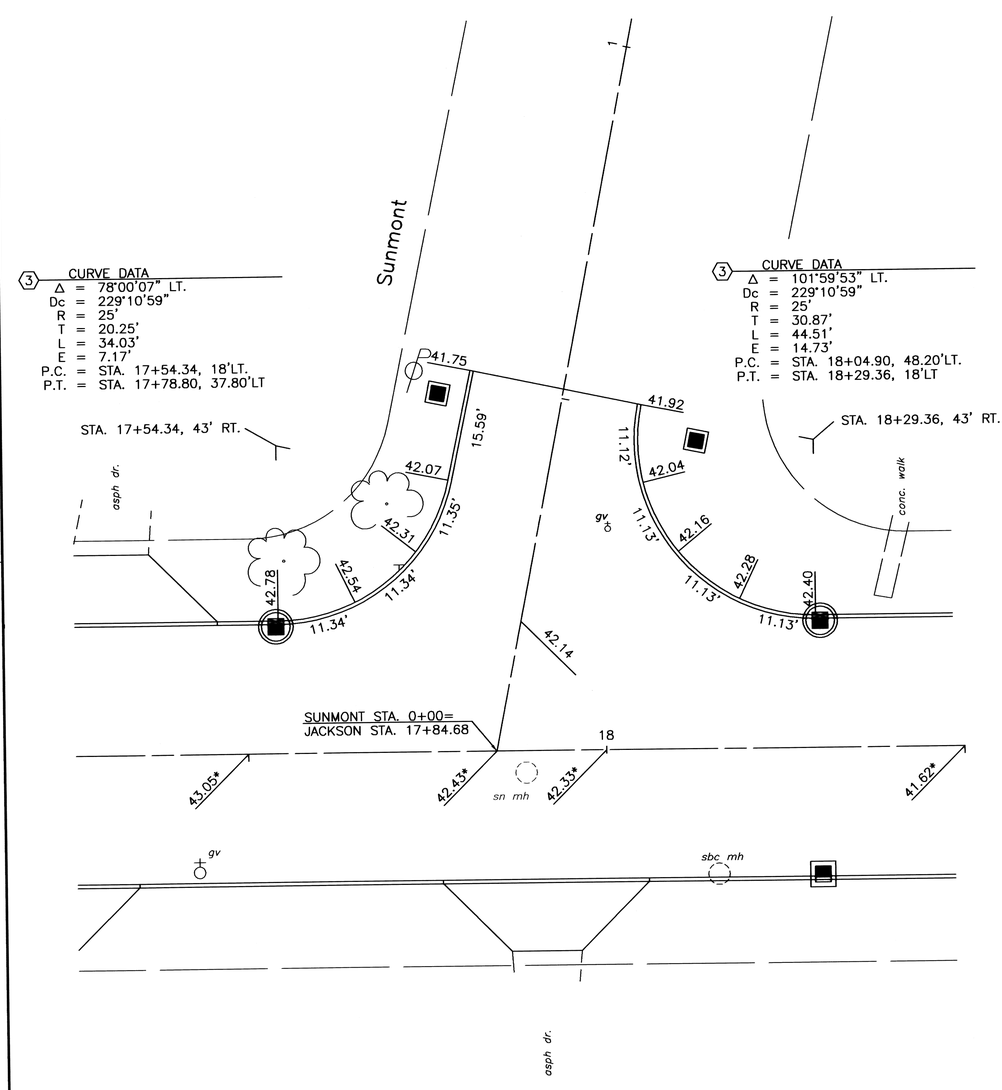
REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0347.DWG

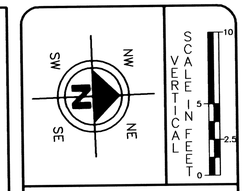
ACCOUNT NUMBER: 05st03





NOTE:

1. ALL ELEVATION ALONG CURB LINE ARE TOP OF CURB AND REPRESENT NO DEVIATION FOR DROP CURBS
2. ADD 1100' TO ALL ELEVATIONS.
3. (*) INDICATES PAVEMENT ELEVATION



DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th St NE (Jackson Ave.) Widening

Detail

City of Massillon
Stark County, Ohio

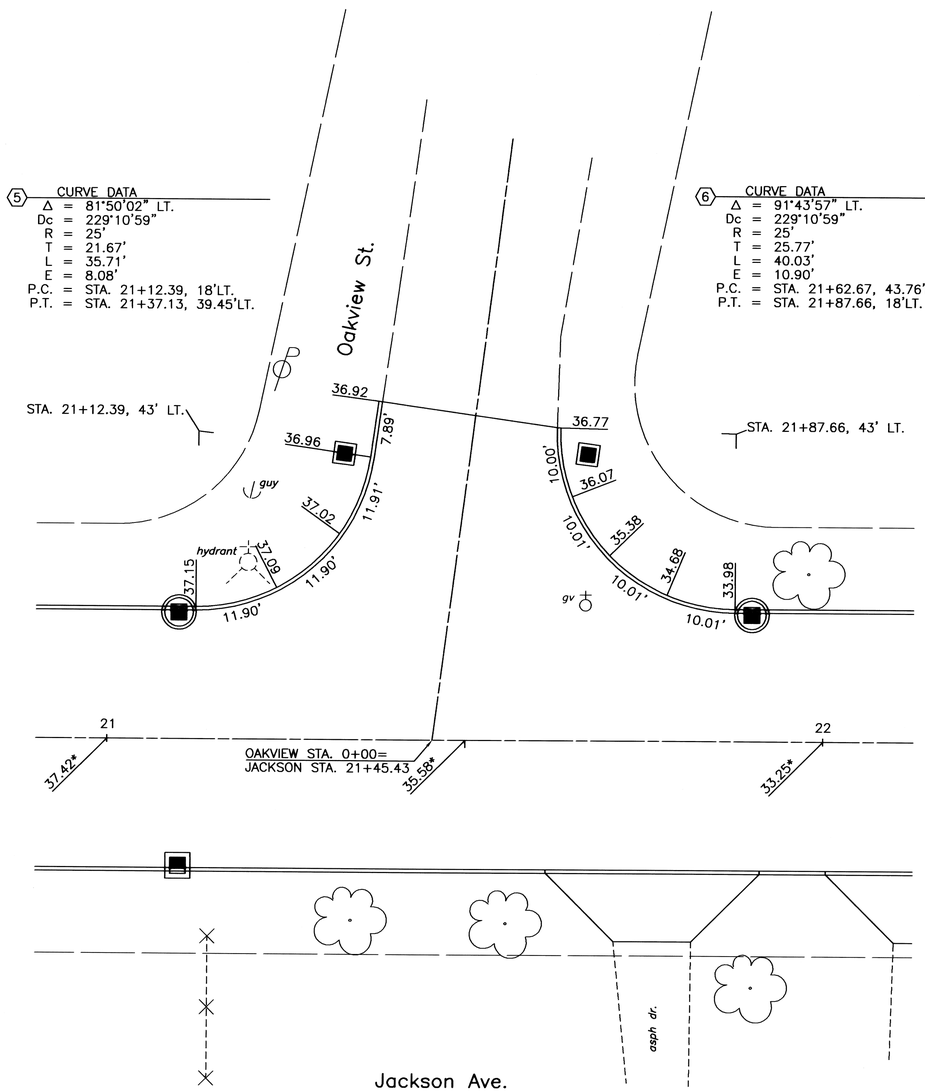
Francis H. Cicchinelli, Jr.
Mayor

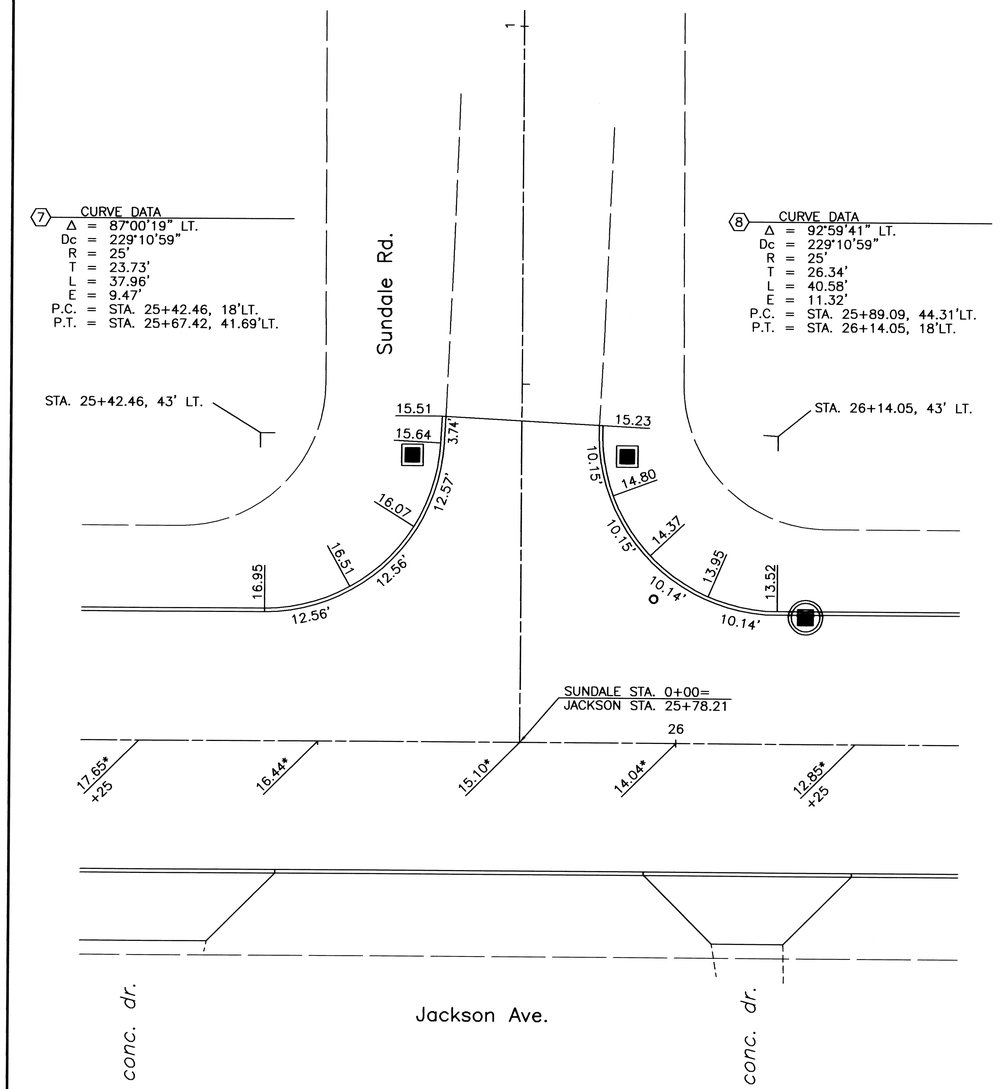
Massillon
Means More!

REVISIONS:	
DATE	DESCRIPTION

FILE NAME: 05st0348.DWG

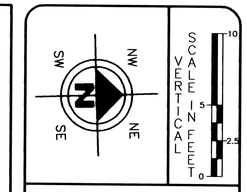
ACCOUNT NUMBER: 05st03





NOTE:

1. ALL ELEVATION ALONG CURB LINE ARE TOP OF CURB AND REPRESENT NO DEVIATION FOR DROP CURBS
2. ADD 1100' TO ALL ELEVATIONS.
3. (*) INDICATES PAVEMENT ELEVATION



DRAWN BY: FPW | CHECKED BY: SDH

DATE: Sept. 8, 2005 | DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Detail

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

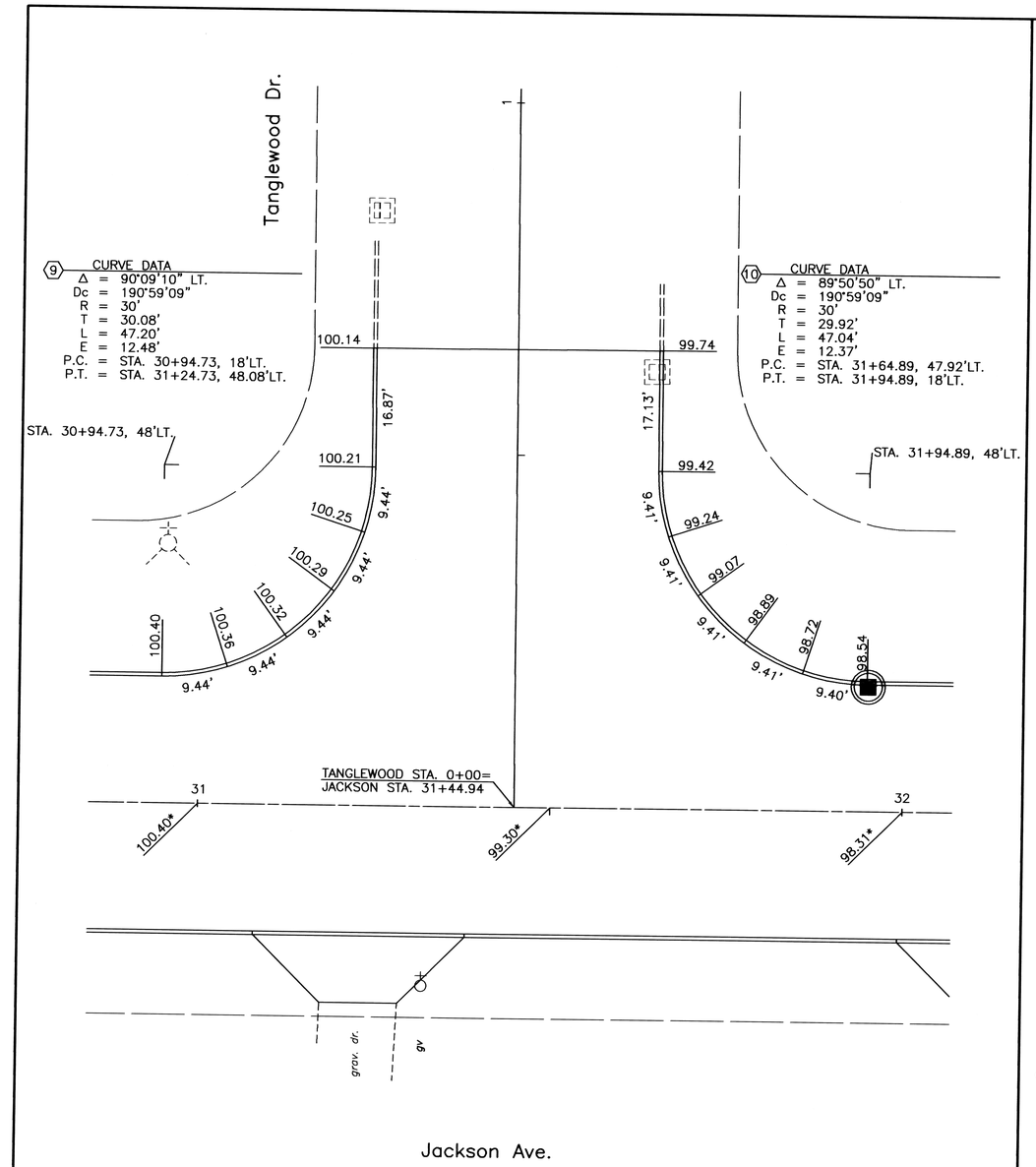
Massillon
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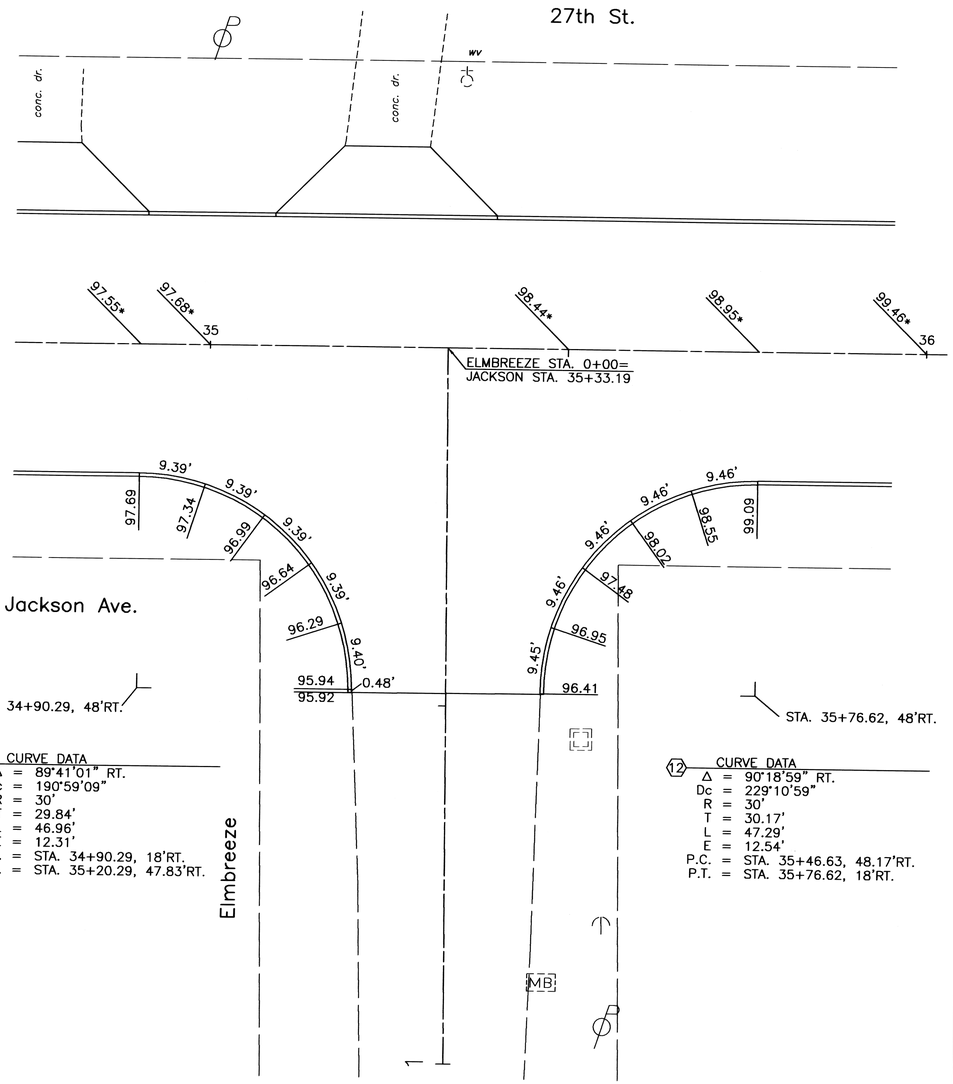
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0349.DWG

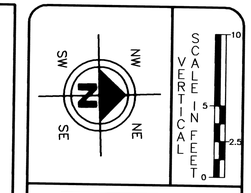
ACCOUNT NUMBER: 05st03





NOTE:

1. ALL ELEVATION ALONG CURB LINE ARE TOP OF CURB AND REPRESENT NO DEVIATION FOR DROP CURBS
2. ADD 1000 TO ALL ELEVATIONS.
3. (*) INDICATES PAVEMENT ELEVATION



DRAWN BY: FPW
CHECKED BY: SDH
DATE: Sept. 8, 2005
DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Detail

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

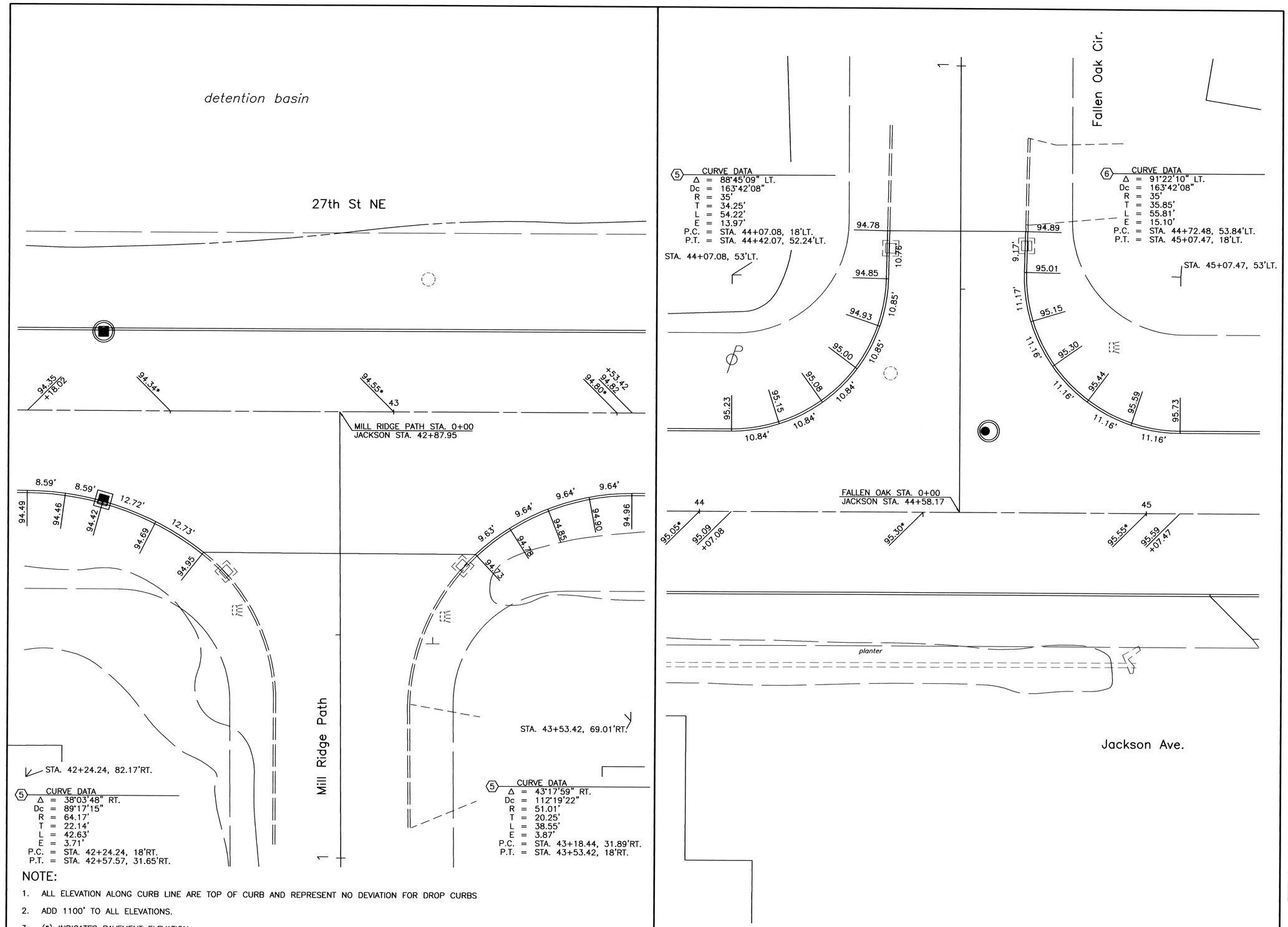
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0350.DWG

ACCOUNT NUMBER: 05st03



NOTE:

1. ALL ELEVATION ALONG CURB LINE ARE TOP OF CURB AND REPRESENT NO DEVIATION FOR DROP CURBS
2. ADD 1100' TO ALL ELEVATIONS.
3. (*) INDICATES PAVEMENT ELEVATION

SCALE IN FEET
VERTICAL
10
5
2.5
0
20 10 0 20
HORIZONTAL
SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Sept. 8, 2005	DATE: Sept. 8, 2005

27th (Jackson Ave.) Widening

Detail

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME:
05st0353.DWG

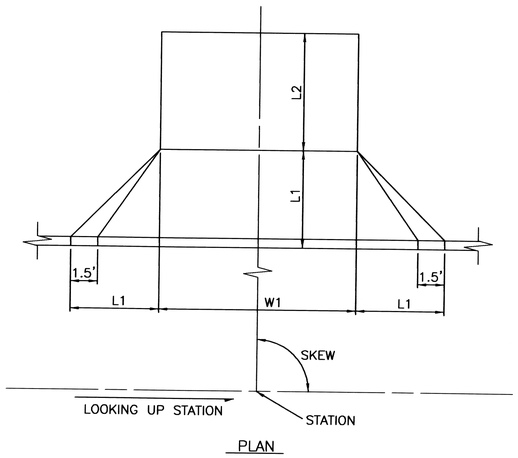
ACCOUNT NUMBER
05st03

SHEET No.	REFERENCE No.	STATION	SIDE	DRIVE TYPE	SKEW	L1	L2	W1	452SPEC CONCRETE DRIVE (A)	452SPEC ASPHALT DRIVE (B)	452SPEC CONCRETE DRIVE	452SPEC ASPHALT DRIVE
						FT.	FT.	FT.	S. Y.	S. Y.	S. Y.	S. Y.
		LINCOLN WAY WEST										
13	A–1	13+23	LT.	COMM.	90°	7.1		30		30		
13	A–2	15+92	LT.	COMM.	90°	11.7		39		66		
13	A–3	12+88	RT.	COMM.	90°	9.5		9		20		
13	A–4	13+32	RT.	RES.	90°	9.5		8		19		
13	A–5	13+81	RT.	RES.	90°	9.5		11		22		
13	A–6	15+92	RT.	RES.	90°	9.5		10	21			
14	A–7	16+59	LT.	RES.	90°	9.5		19	30			
14	A–8	16+80	LT.	RES.	90°	9.5		11	22			
14	A–9	17+31	LT.	RES.	90°	9.5		11	22			
14	A–10	18+79	LT.	RES.	90°	9.5		13		24		
14	A–11	19+26	LT.	RES.	90°	9.5		11		22		
14	A–12	19+78	LT.	RES.	90°	9.5		12		23		
14	A–13	16+49	RT.	RES.	90°	9.5		14		25		
14	A–14	17+19	RT.	RES.	90°	9.5		13		24		
14	A–15	17+91	RT.	RES.	90°	9.5		10		21		
14	A–16	19+30	RT.	RES.	90°	9.5		10		21		
15	A–17	20+24.5	LT.	RES.	90°	9.5		11	22			
15	A–18	22+51.5	LT.	RES.	90°	9.5		26	38			
15	A–19	23+22.5	LT.	RES.	90°	9.5		9		20		
15	A–20	23+71.5	LT.	RES.	90°	9.5		21		33		
15	A–21	20+28.5	RT.	RES.	90°	9.5		11		22		
15	A–22	20+45	RT.	RES.	90°	9.5		12		23		
15	A–23	21+76	RT.	RES.	90°	9.5		11		22		
15	A–24	22+15	RT.	RES.	90°	9.5		10	21			
15	A–25	23+19.5	RT.	RES.	90°	9.5		9		20		
15	A–26	23+44	RT.	RES.	90°	9.5		10		21		
16	A–27	24+43.5	LT.	RES.	90°	9.5		20		32		
16	A–28	24+93	LT.	RES.	90°	9.5		21	33			
16	A–29	28+56.5	LT.	RES.	90°	9.5		19	30			
16	A–30	24+41.5	RT.	RES.	90°	9.5		9	20			
16	A–31	25+22.5	RT.	RES.	90°	9.5		24	36			
16	A–32	26+10	RT.	RES.	90°	9.5		10		21		
16	A–33	26+95	RT.	RES.	90°	9.5		11		22		
17	A–34	29+54	LT.	RES.	90°	9.5		18	29			
17	A–35	29+12	RT.	RES.	90°	9.5		11		22		
17	A–36	31+23	RT.	RES.	90°	9.5		11		22		
17	A–37	32+21	RT.	RES.	90°	9.5		24	36			
18	A–38	34+05.5	LT.	RES.	90°	9.5		13		24		
18	A–39	34+73.5	LT.	RES.	90°	9.5		17		28		
18	A–40	35+24.5	LT.	RES.	90°	9.5		12	23			
18	A–41	36+70	LT.	RES.	90°	9.5		17	28			
18	A–42	33+94	RT.	RES.	90°	9.5		12	23			
18	A–43	34+35	RT.	RES.	90°	9.5		10	21			
19	A–44	37+37	LT.	RES.	90°	9.5		15	26			
19	A–45	38+85	LT.	RES.	90°	9.5		28	40			
19	A–46	39+38	LT.	RES.	90°	9.5		17	28			
19	A–47	40+30.5	LT.	RES.	90°	9.5		17	28			
19	A–48	37+31.5	RT.	RES.	90°	9.5		22	34			
19	A–49	38+26	RT.	RES.	90°	9.5		21	33			
19	A–50	39+11	RT.	RES.	90°	9.5		11		22		
19	A–51	40+37.5	RT.	RES.	90°	9.5		13		24		
19	A–52	40+91	RT.	RES.	90°	9.5		9		20		
20	A–53	45+37.5	RT.	RES.	90°	9.5		22		34		
21	A–54	46+98	LT.	RES.	90°	9.5		17	28			
21	A–55	48+45.5	LT.	RES.	90°	9.5		11	22			
21	A–56	49+44	LT.	RES.	90°	9.5		17	28			
21	A–57	45+69.5	RT.	RES.	90°	4.5		19		30		
22	A–58	49+92.5	LT.	RES.	90°	9.5		13	24			
22	A–59	51+38	LT.	RES.	90°	9.5		10		21		
22	A–60	52+64.5	LT.	RES.	90°	9.5		12		23		
22	A–61	49+97.5	RT.	RES.	90°	9.5		25		37		
22	A–62	51+26.5	RT.	RES.	90°	9.5		12		23		
23	A–63	53+94	LT.	RES.	90°	9.5		28		40		
23	A–64	55+89	LT.	RES.	90°	9.5		12		23		
23	A–65	56+71	LT.	RES.	90°	9.5		22		34		
23	A–66	57+61.5	LT.	RES.	90°	9.5		12		23		
24	A–67	58+25.4	RT.	RES.	90°	9.5'		12		23		
		TOTAL							746	1026	1000	1000

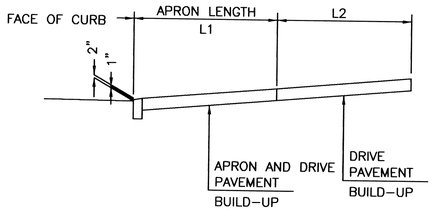
AS DIRECTED BY ENGINEER

AS DIRECTED BY ENGINEER

AS DIRECTED BY ENGINEER



PLAN



PROFILE

APRON AND DRIVE PAVEMENT BUILD–UP

A. 6" 452 PLAIN PORTLAND CEMENT CONCRETE

B. 1 1/2" 404 ASPHALT CONCRETE
5" 301 BITUMINOUS AGGREGATE BASE

NOTES

1. TYPE A SHALL BE USED TO REPLACE ANY EXISTING CONCRETE DR.

2 TYPE B SHALL BE USED TO REPLACE ANY EXISTING DRIVE EXCEPT FOR CONCRETE.

3. ITEM 452SPEC. CONCRETE DRIVE AND ITEM 452SPEC. ASPHALT DRIVE SHALL INCLUDED ALL MATERIALS, LABOR, AND REMOVAL FOR PROPER INSTALLATION OF OF NEW APRONS AND DRIVES AS SHOWN ON THIS SHEET.

VERTICAL SCALE IN FEET: 0, 2.5, 5, 10

HORIZONTAL SCALE IN FEET: 5, 2.5, 0, 5

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

DRIVEWAY INFORMATION
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

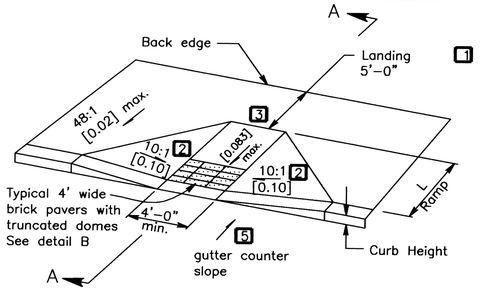
Massillon
Means More!

REVISIONS:

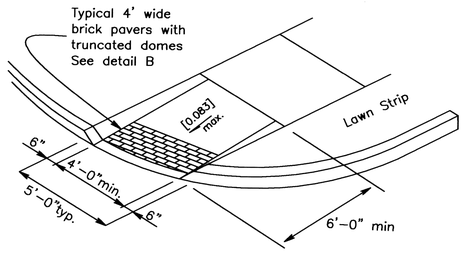
DATE	DESCRIPTION

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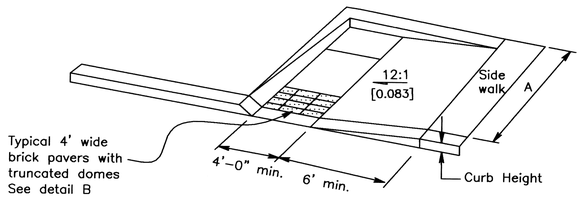
ACCOUNT NUMBER: 05st03



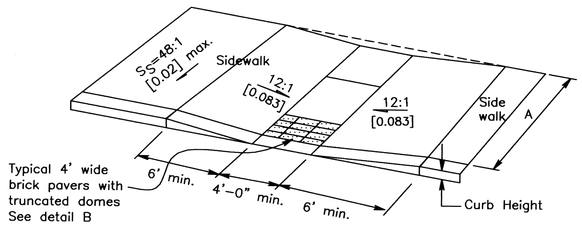
CURB RAMP TYPE A



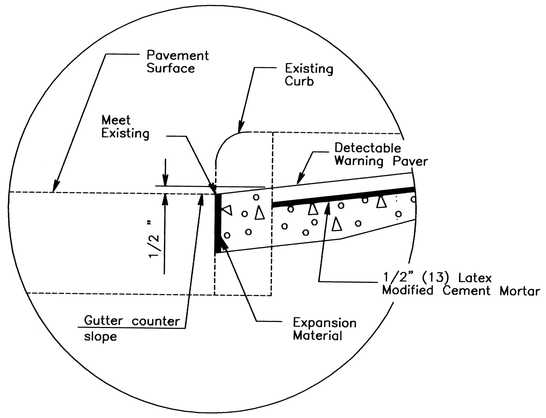
CURB RAMP TYPE B



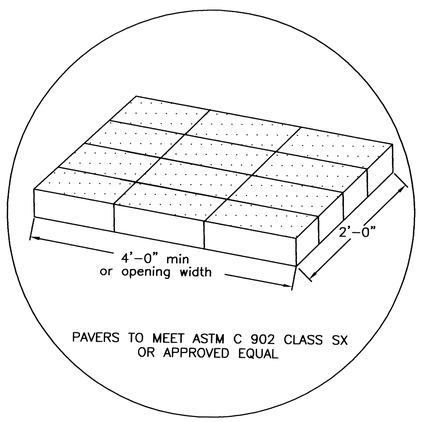
CURB RAMP TYPE D



CURB RAMP TYPE C



DETAIL A



PAVERS TO MEET ASTM C 902 CLASS SX
OR APPROVED EQUAL

DETAIL B

LEGEND

1. The engineer may permit no less than 3'–0" in existing sidewalks if the landing is unconstrained along the back edge.

2. Where landing width has been reduced to 3'–0" the flared sides shall have a maximum slope of 12:1 [0.083].

3. The max. slope of the ramp toward the curb is 12:1 [0.083] as related to the horizontal, but the, relative to the existing or proposed walk slope.

   The Engineer may allow the following in Historical Areas

   A) 10:1 [0.10] for a max. rise of 6",
   B) 8:1 [0.125] for a max. rise of 3",
   C) 6:1 [0.167] over a max. run of 2'–0" for historic areas where a flatter slope is not feasible.

4. The minimum length of a Type A or B ramp is 6' from the back of a 6" curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

5. Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'–0" from the curb.

NOTES

SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than the adjacent walk

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" from the back of curb for the entire width of the ramp opening.

Pavers will meet ASTM C 902 Class SX, Type 1, or C 936, or C 1272 Type R.

ACCEPTABLE MANUFACTURERS AND PRODUCTS ARE AS FOLLOWS:

1.) Whitacre–Greer Fireproofing Company
1400 South Mahoning Ave.
Alliance, OH 44601
1–800–WG PAVER
ADA Paver, 4"x8"x2–1/4" Clear Red, Rustic, #30

2.) Hanover Architectural Products
240 Bender Road
Hanover, PA 17331
(717) 637–0500
Detectable Warning Paver, 12"x12"x2" or
24"x24"x2", Red or Quarry Red

3.) Endicott Clay Products
P.O. Box 17
Fairbury, NE 68352
(402) 729–5804
Handicap Detectable Warning Paver,
4"x8"x2–1/4", Red Blend

Pavers will be laid on top of a 4" unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum 1/2" thick bed of latex modified cement mortar. Mortar joints to a width not greater than 5/32" and not less that 1/16". Pavers shall not be directly touching each other unless they have spacing bars.

Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be laid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.

The surface of any two adjacent units should not differ by more than 1/8" in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during construction.

EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with item 608.03 requirements for a new concrete walk. A 1/2" Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.

RELIEF JOINTS: must be provide at all points of continuous slope changes in Curb Type A and Type C.

PAYMENT: Item 608, CURB RAMP, EACH, shall include the cost of furnishing and installing all materials (including truncated domes,) grading, forming and finishing of the curb and walk of the curb ramp and removal of any existing material to perform such work

27th (Jackson Ave.) Widening

Details
City of Massillon
Stark County, Ohio

DRAWN BY:	CHECKED BY:
JAH	FPW
DATE: Dec. 03, 2002	DATE: Dec. 03, 2002

Francis H. Cicchinelli, Jr.
Mayor

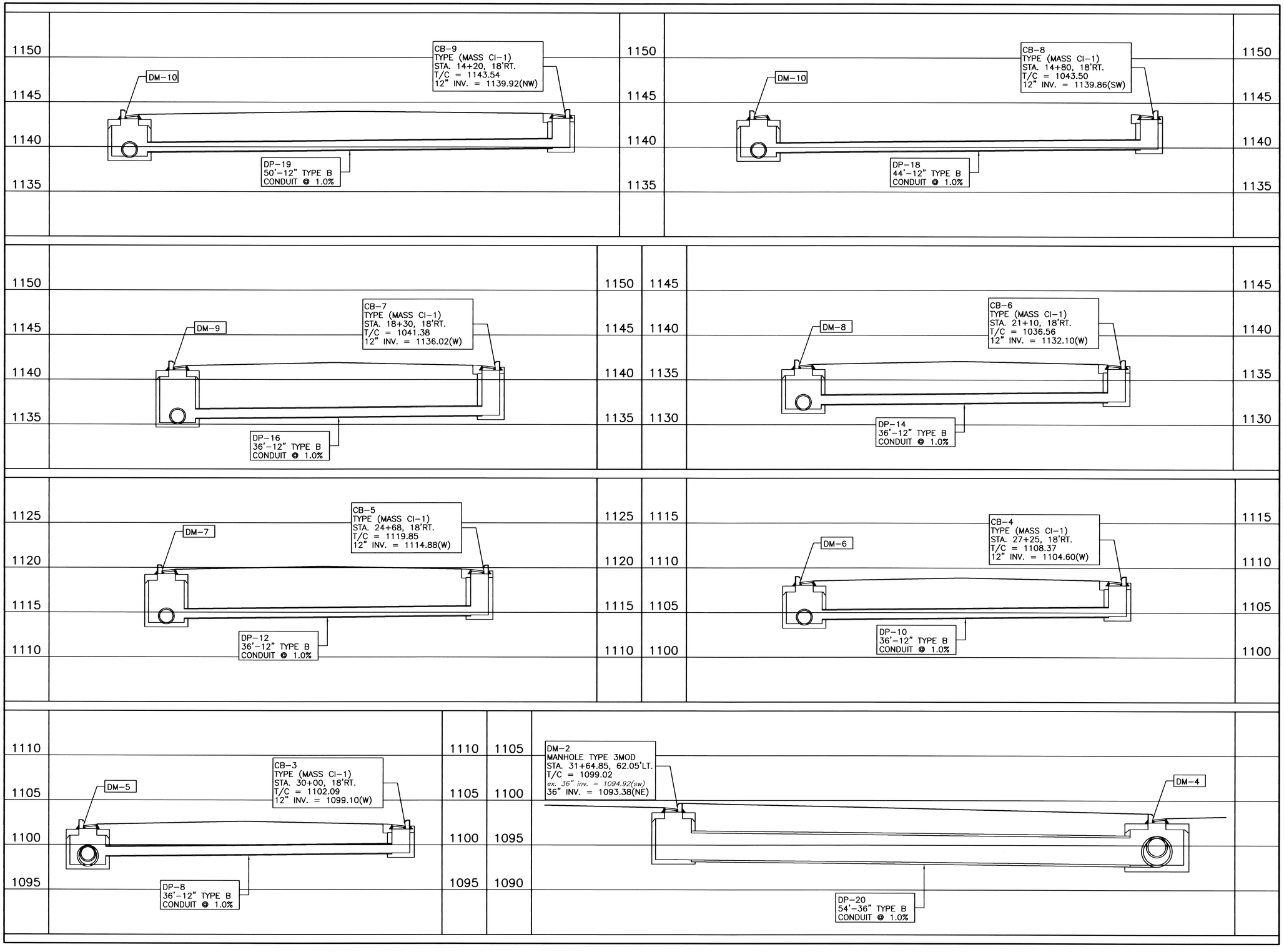
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0353.DWG

ACCOUNT NUMBER: 05st03



VERTICAL SCALE IN FEET
0 2.5 5 10

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

Drainage Profiles
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0354.DWG

ACCOUNT NUMBER: 05st03



VERTICAL SCALE IN FEET
10
5
2.5
0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

Drainage Profile
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

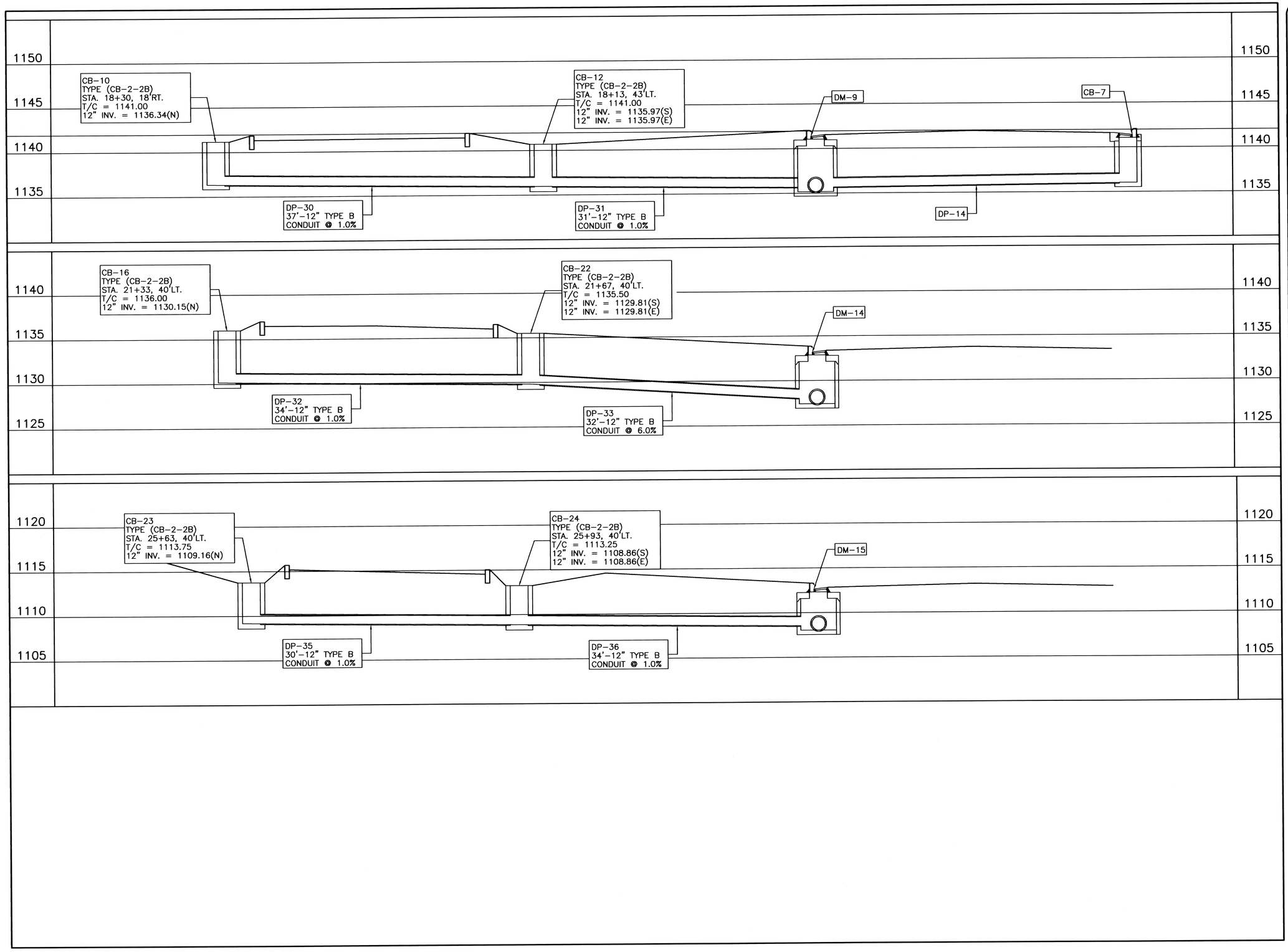
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME: 05st0355.DWG

ACCOUNT NUMBER: 05st03



VERTICAL SCALE IN FEET
10
5
2.5
0

5 2.5 0 5
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

Drainage Profiles

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

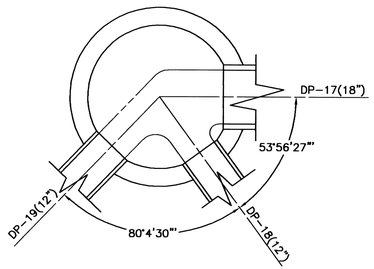
Massillon
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REVISIONS:

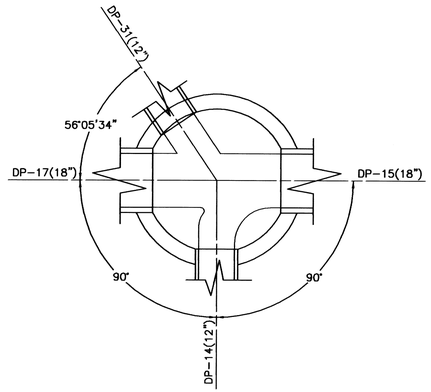
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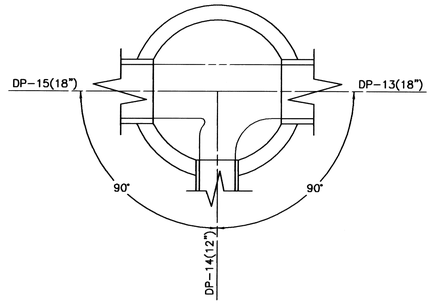
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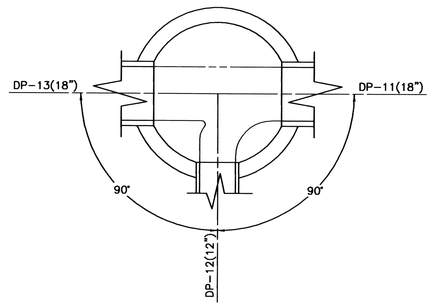
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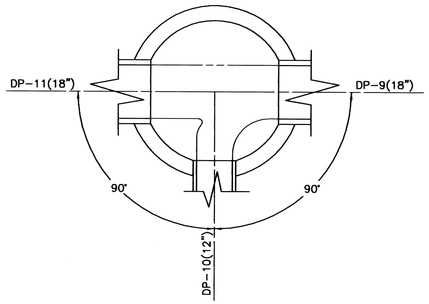
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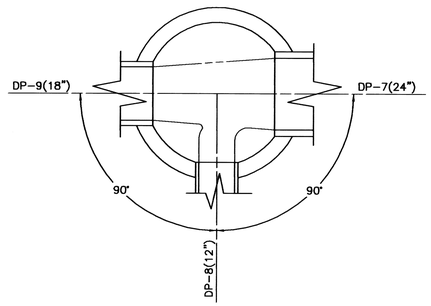
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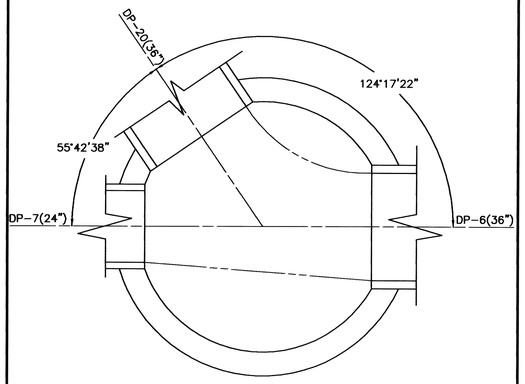
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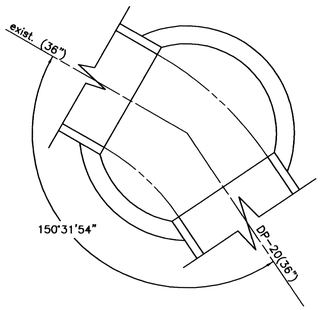
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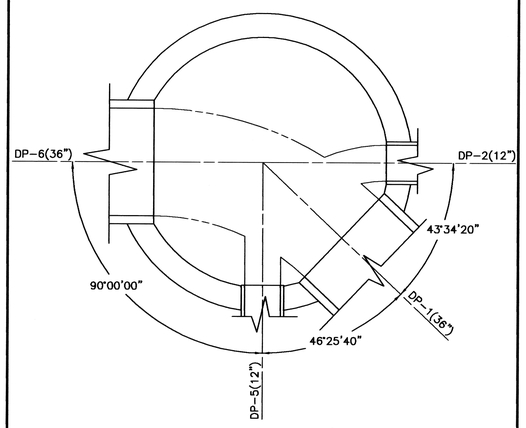
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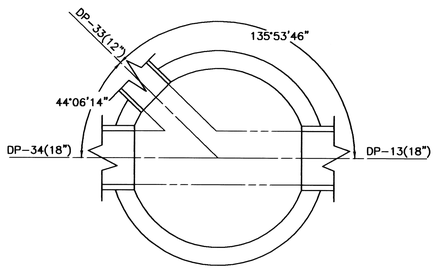
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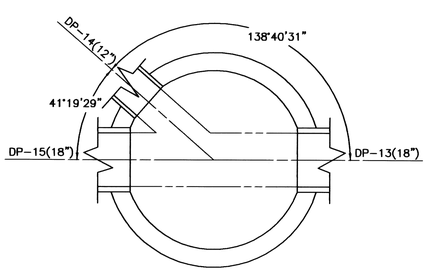
DM-2 (ID – 5)



DM-3 (ID – 7)



DM-14 (ID – 5)



DM-15 (ID – 5)

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

Drainage Details
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

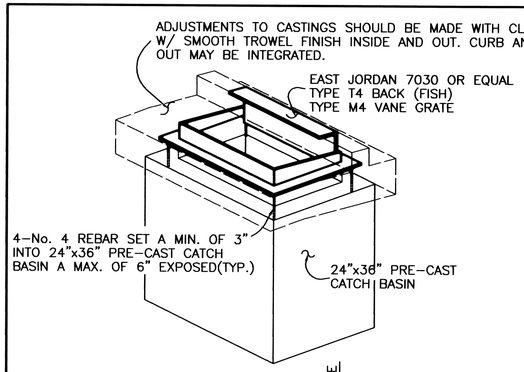
Massillon
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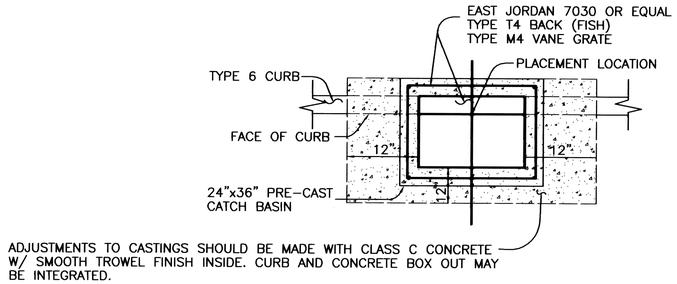
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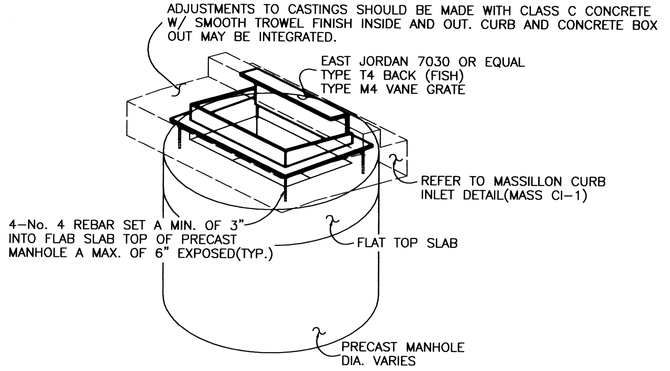
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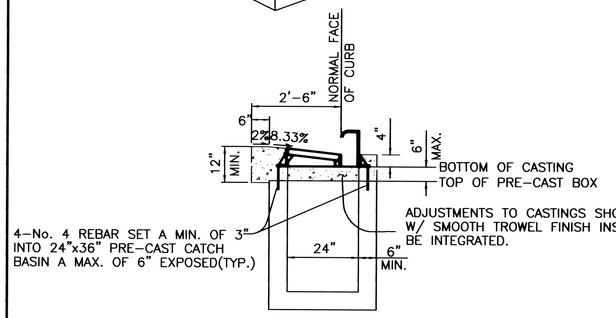
FILE NAME: 05st0357.DWG

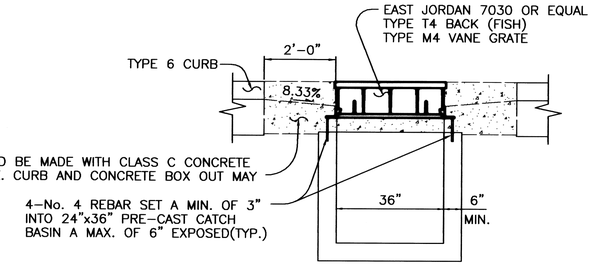
ACCOUNT NUMBER: 05st03





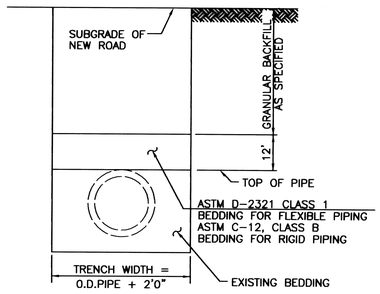




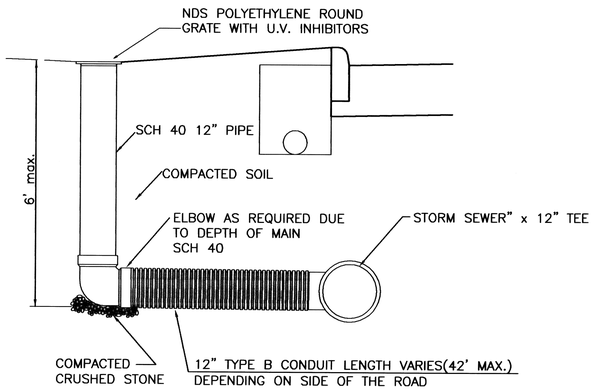


Massillon Curb Inlet (MASS CI–1)

Manhole Type 3 Mod. (TYPE 3MOD)



Trench Rehabilitation

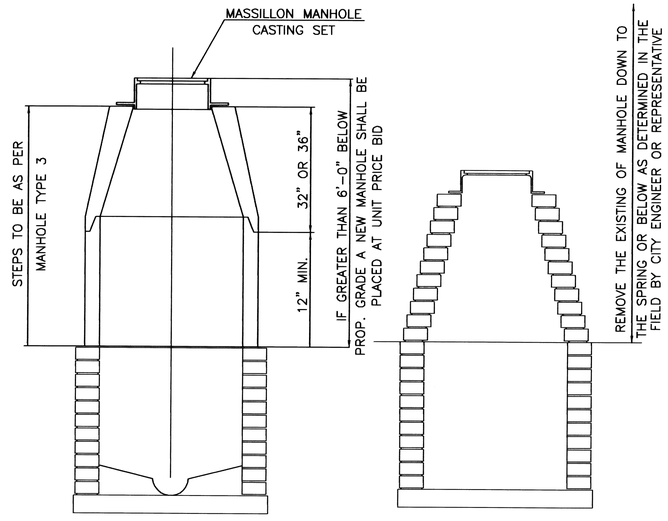


ALL MATERIAL, PIPE, FITTING, AND GRATE SHALL BE INCLUDED IN UNIT PRICE BID FOR ITEM 608SPEC. YARD DRAIN EACH.

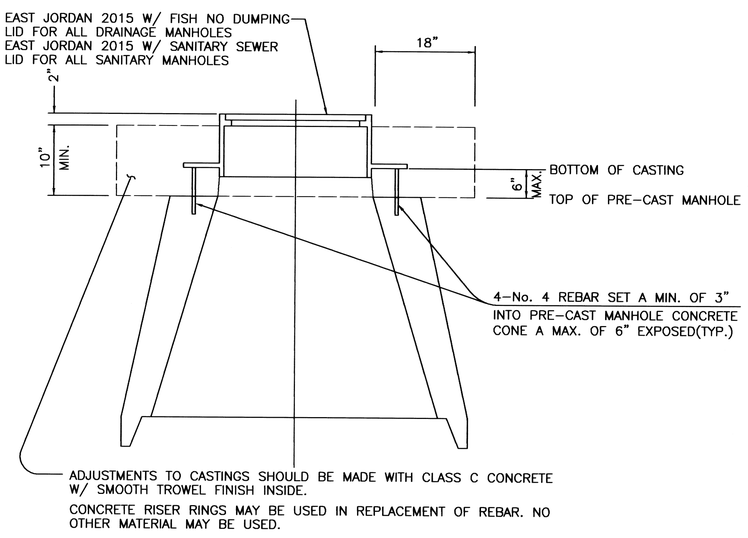
YARD DRAIN

CONTINGENCIES: LEFT 3 EACH

RIGHT 3 EACH



Massillon Manhole Rehabilitation



Massillon Manhole Casting Set

VERTICAL SCALE IN FEET: 10, 5, 2.5, 0

HORIZONTAL SCALE IN FEET: 2, 1, 0, 2

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: May 27, 2003	DATE: June 11, 2003

27th (Jackson Ave.) Widening

Details

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

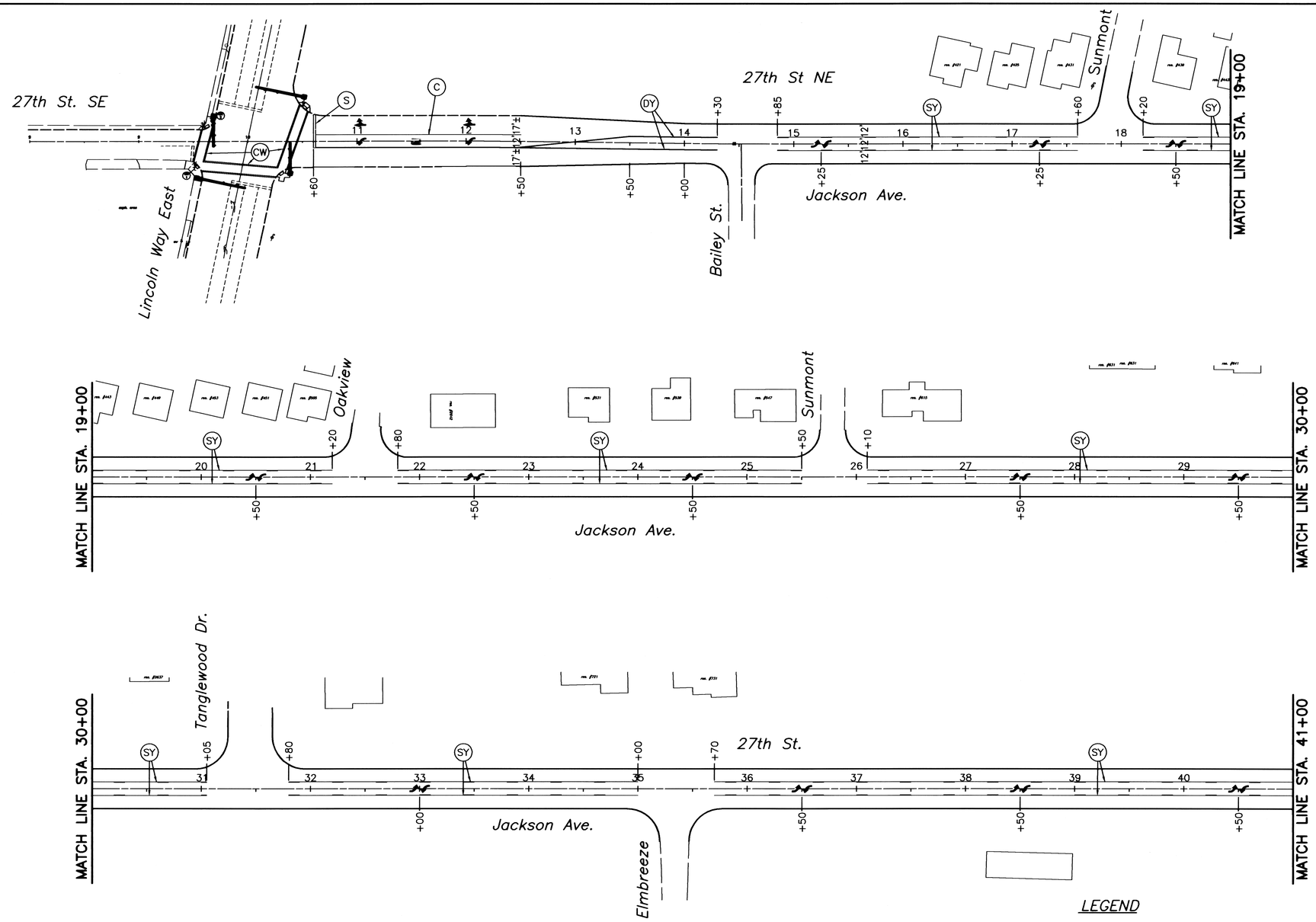
Massillon Means More!

REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME: 05st0358.DWG

ACCOUNT NUMBER: 05st03



LEGEND

- (S) – THERMOPLASTIC 24" STOP LINE (WHITE) – 31 L.F.
- (C) – THERMOPLASTIC WIDE SOLID WHITE CHANNELIZING LINE (8") – 190 L.F.
- (CW) – THERMOPLASTIC SOLID WHITE CROSS WALK 6' APART (8") – 176 L.F.
- (DY) – TWO–DIRECTION, NO–PASSING MARKING (YELLOW)(4") – 0.11 Mi.
- (SY) – ONE–DIRECTION, NO–PASSING MARKING (YELLOW)(4") – 1.57 Mi.
- – THERMOPLASTIC ARROWS – 44 Each
- – THERMOPLASTIC WORD – 2 Each

NW NE SW SE

50 25 0 50
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: June 11, 2003	DATE: June 2003

27th (Jackson Ave.) Widening
Striping Plan Sta. 9+00 to Sta. 41+00
City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

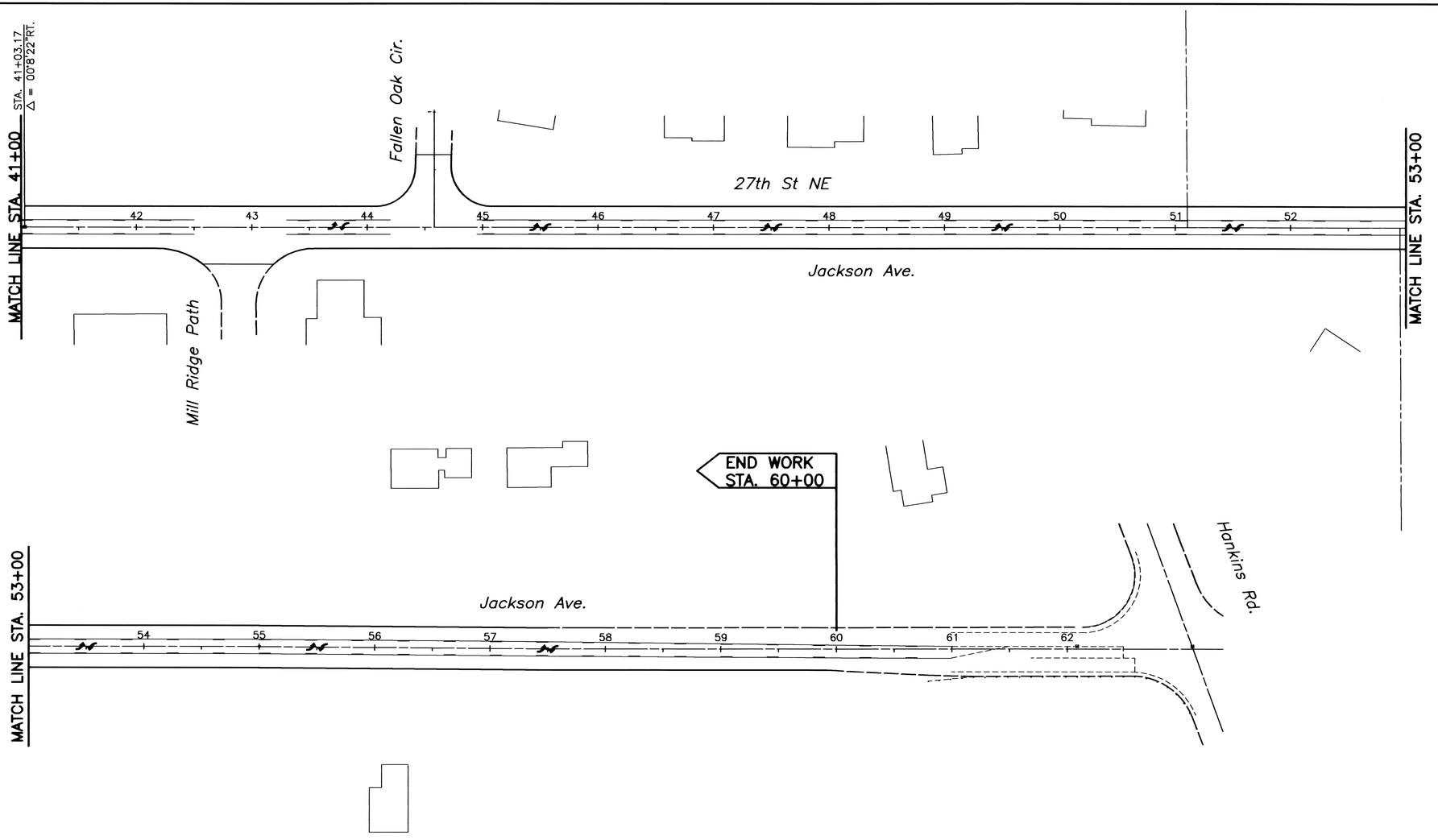
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

FILE NAME: 03ST0359.DWG

ACCOUNT NUMBER: 03ST03



NW NE SW SE N

50 25 0 50
HORIZONTAL
SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Nov., 2005	DATE: Nov., 2005

27th (Jackson Ave.) Widening

Striping Plan Sta. 41+00 to Sta. 64+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

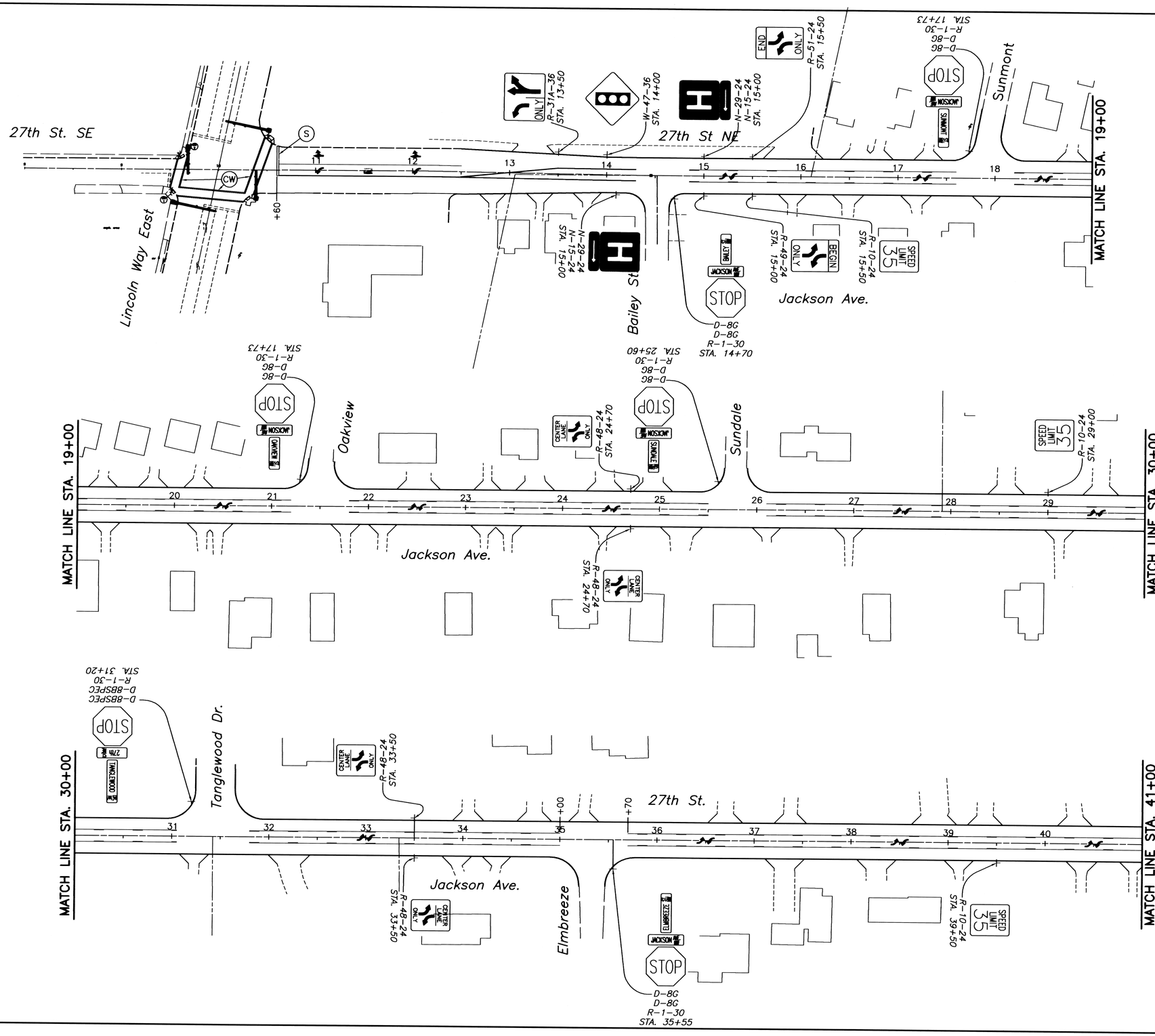
Massillon
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REVISIONS:

DATE	DESCRIPTION

FILE NAME:
05st0360.DWG

ACCOUNT NUMBER
05st03



NW NE SW SE

HORIZONTAL SCALE IN FEET
50 25 0 50

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: June 11, 2003	DATE: June 2003

27th (Jackson Ave.) Widing

Signing Plan Sta. 9+00 to Sta. 41+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

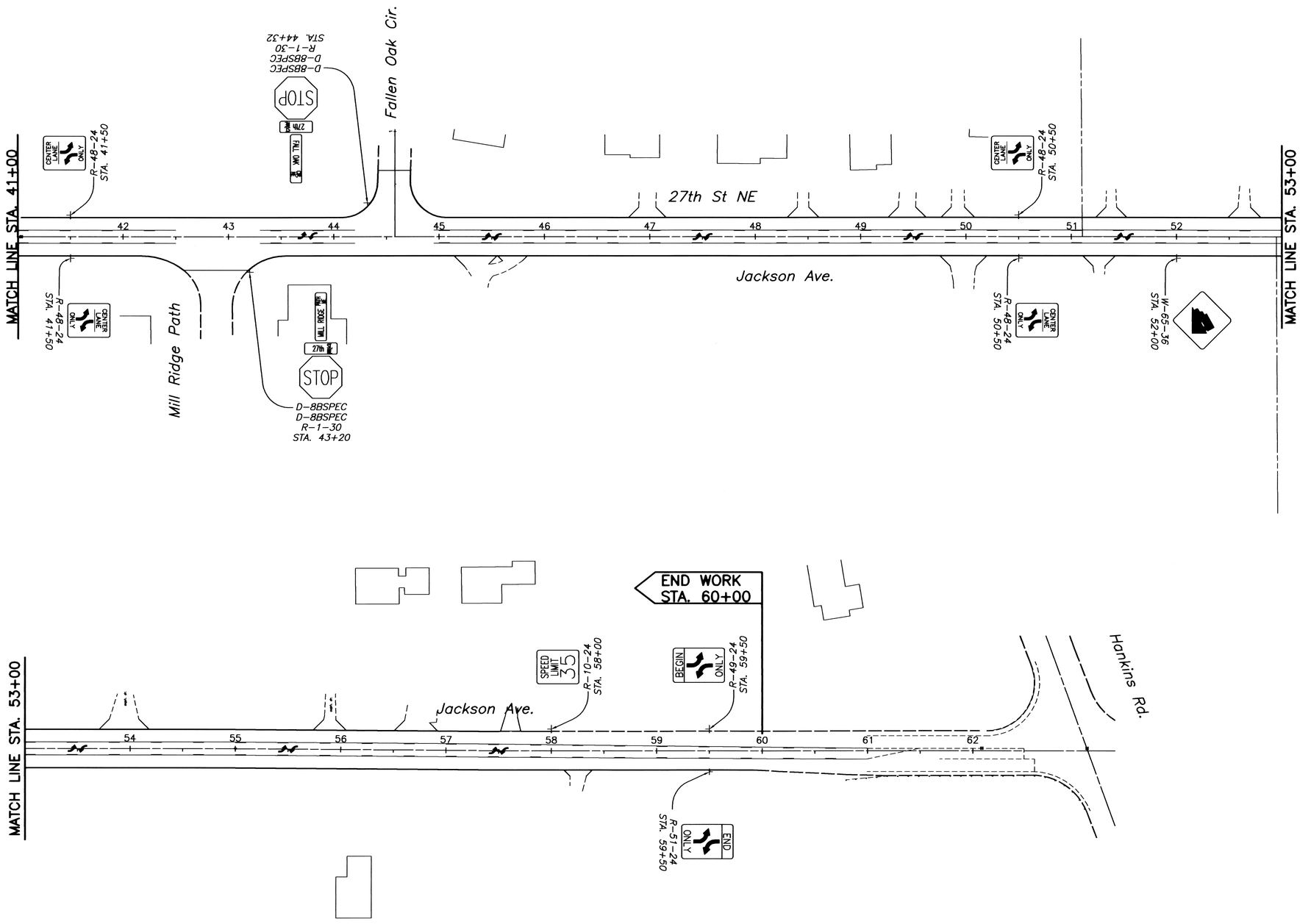
Massillon
Means More!

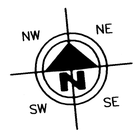
REVISIONS:

DATE	DESCRIPTION

FILE NAME: 03ST0359.DWG

ACCOUNT NUMBER 03ST03





50 25 0 50
HORIZONTAL SCALE IN FEET

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: Nov., 2005	DATE: Nov., 2005

27th (Jackson Ave.) Widing

Signing Plan Sta. 41+00 to Sta. 64+00

City of Massillon
Stark County, Ohio

Francis H. Cicchinelli, Jr.
Mayor

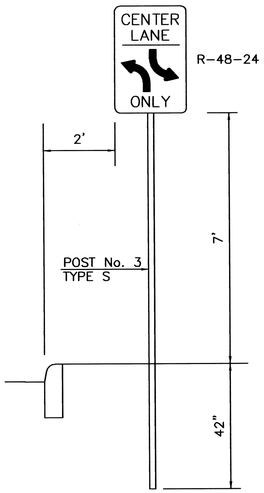
Massillon
Means More!

REVISIONS:

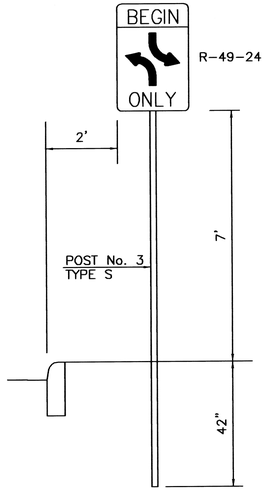
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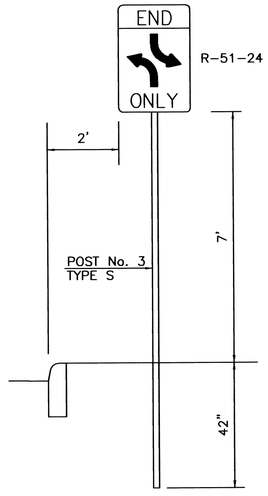
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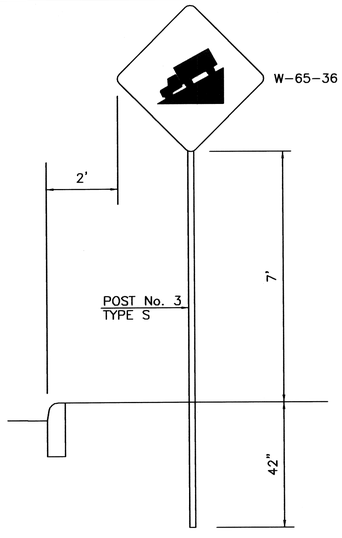
R-48-24
8 – EACH
POST No. 3, TYPE S
8 – EACH



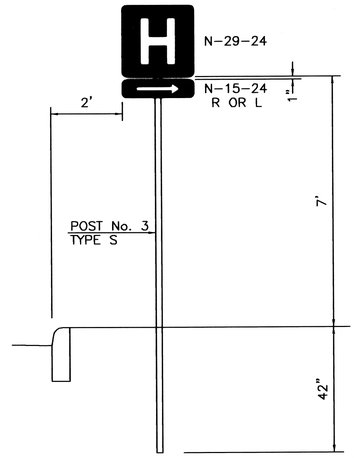
R-49-24
2 – EACH
POST No. 3, TYPE S
2 – EACH



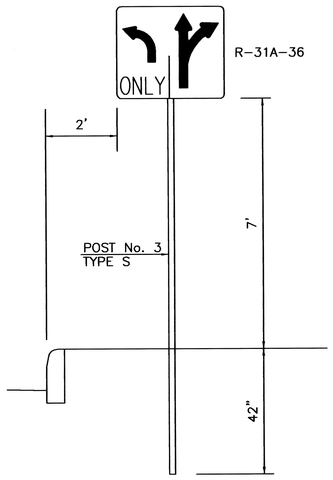
R-51-24
2 – EACH
POST No. 3, TYPE S
2 – EACH



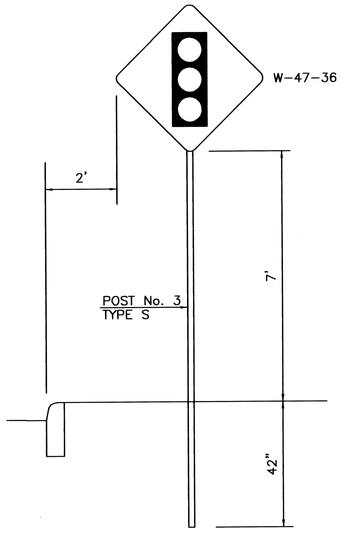
W-65-36
1 – EACH
POST No. 3, TYPE S
1 – EACH



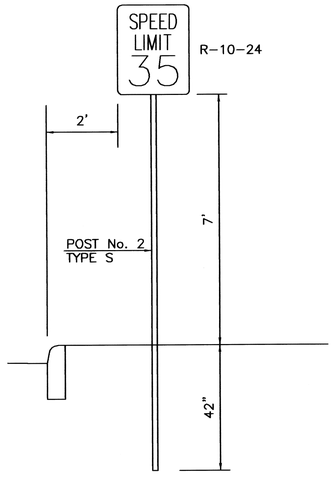
N-29-24
2 – EACH
N-15-24R
1 – EACH
N-15-24L
1 – EACH
POST No. 3, TYPE S
2 – EACH



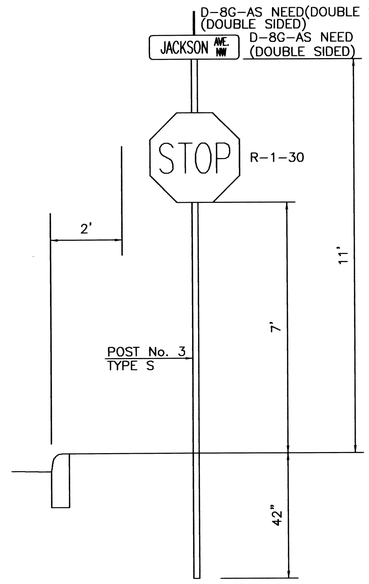
R-31A-36
1 – EACH
POST No. 3, TYPE S
1 – EACH



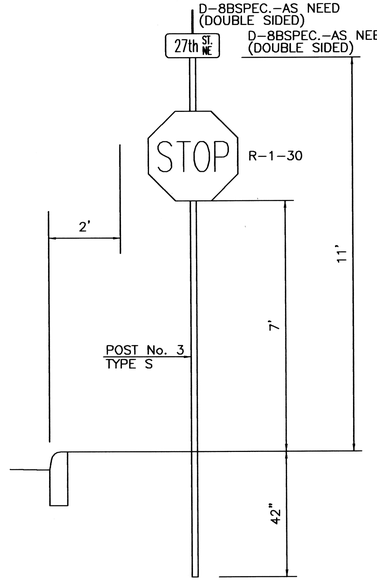
W-47-36
1 – EACH
POST No. 3, TYPE S
1 – EACH



R-10-24
4 – EACH
POST No. 2, TYPE S
4 – EACH



D-8G
10 – EACH
R-1-30
5 – EACH
POST No. 3, TYPE S
5 – EACH



D-8BSPEC.
6 – EACH
R-1-30
3 – EACH
POST No. 3, TYPE S
3 – EACH

NOTES:

1. ALL MOUNTING HARDWARE SHALL BE INCLUDE IN UNIT PRICE BID FOR THE PERTINENT SIGN
2. ALL D-8G SIGNS MUST BE PERRY TOWMSHIP STANDARDS AND ALL D-8BSPEC. MUST BE CITY OF MASSILLON STANDARDS

27th (Jackson Ave.) Widening
Signing Details
City of Massillon
Stark County, Ohio

DRAWN BY:	CHECKED BY:
FPW	SDH
DATE: April, 2005	DATE: April, 2005

Francis H. Cicchinelli, Jr.
Mayor
Massillon
Means More!

REVISIONS:

DATE	DESCRIPTION

ELECTRONIC FILE NAME:
05st0363.DWG

ACCOUNT NUMBER
05st03