



**1 CURVE DATA**

P.I.	= Sta. 22+40.35
Δ	= 3°08'38" Rt.
D <sub>c</sub>	= 05°43'46"
R	= 1000.00'
T	= 27.44'
L	= 54.87'
E	= 0.38'
C	= 54.86'
C.B.	= N 68°34'52" E
P.C.	= Sta. 22+12.91
P.T.	= Sta. 22+67.78

**2 CURVE DATA**

P.I.	= Sta. 23+76.29
Δ	= 13°40'13" Lt.
D <sub>c</sub>	= 14°19'26"
R	= 400.00'
T	= 47.95'
L	= 95.44'
E	= 2.86'
C	= 95.21'
C.B.	= N 63°19'04" E
P.C.	= Sta. 23+28.34
P.T.	= Sta. 24+23.78

**3 CURVE DATA**

P.I.	= Sta. 25+58.59
Δ	= 17°59'41" Rt.
D <sub>c</sub>	= 12°43'57"
R	= 450.00'
T	= 71.25'
L	= 141.33'
E	= 5.61'
C	= 140.75'
C.B.	= N 65°28'48" E
P.C.	= Sta. 24+87.34
P.T.	= Sta. 26+28.67

**4 CURVE DATA**

P.I.	= Sta. 27+10.07
Δ	= 40°22'34" Lt.
D <sub>c</sub>	= 76°23'40"
R	= 75.00'
T	= 27.58'
L	= 52.85'
E	= 4.91'
C	= 51.77'
C.B.	= N 54°17'22" E
P.C.	= Sta. 26+82.49
P.T.	= Sta. 27+35.34

**5 CURVE DATA**

P.I.	= Sta. 28+29.81
Δ	= 32°00'00" Lt.
D <sub>c</sub>	= 36°57'54"
R	= 155.00'
T	= 44.47'
L	= 86.59'
E	= 6.25'
C	= 85.45'
C.B.	= N 54°17'22" E
P.C.	= Sta. 27+85.34
P.T.	= Sta. 28+71.91

**6 CURVE DATA**

P.I.	= Sta. 29+78.46
Δ	= 4°33'59" Rt.
D <sub>c</sub>	= 15°16'44"
R	= 375.00'
T	= 14.95'
L	= 29.89'
E	= 0.30'
C	= 29.88'
C.B.	= N 63°49'6" E
P.C.	= Sta. 29+63.51
P.T.	= Sta. 29+93.41

**7 CURVE DATA**

P.I.	= Sta. 60+52.08
Δ	= 14°38'29" Rt.
D <sub>c</sub>	= 14°07'56"
R	= 405.42'
T	= 52.08'
L	= 103.60'
E	= 3.33'
C	= 103.32'
C.B.	= N 5°19'54" W
P.C.	= Sta. 60+00
P.T.	= Sta. 61+03.60

BEGIN PROJECT  
STA. 20+90

BEGIN PROJECT  
STA. 30+00

BEGIN PROJECT  
STA. 12+75.00

24th St NW  
Ex R/W

24th St SW  
Ex R/W

Main Ave W-60' R/W

23rd St NW-50' R/W  
Ex R/W

Main Ave W-60' R/W

22nd St NW-50' R/W  
Ex R/W

Tremont Ave SW-60' R/W

22nd St SW-50' R/W  
Ex R/W

CENTER OF ROUNDABOUT  
STA. 30+03.29, 2.01' Rt. Main Ave W=  
STA. 10+03.79, 0.87' Lt. Tremont Ave SW  
N = 409621.9214  
E = 2231298.8513

DESCRIPTION	STATION	LOCATION	NORTH	EAST
CNPT #20 "IPS"	23+18.94, 20.77' LT	Main Ave Nw	409482.9180	2230948.1350
CNPT #10 "IPS"	25+94.57, 20.49' RT	Main Ave NW	409573.2090	2231204.6290

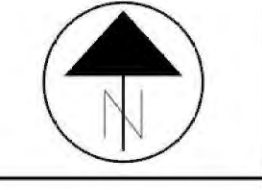
**8 CURVE DATA**

P.I.	= Sta. 11+05.18
Δ	= 41°03'13" Lt.
D <sub>c</sub>	= 38°11'50"
R	= 155.00'
T	= 58.04'
L	= 111.06'
E	= 10.51'
C	= 108.70'
C.B.	= N 86°12'36" E
P.C.	= Sta. 10+47.15
P.T.	= Sta. 11+58.21

**9 CURVE DATA**

P.I.	= Sta. 12+42.38
Δ	= 4°48'01" Rt.
D <sub>c</sub>	= 11°27'33"
R	= 500.00'
T	= 20.96'
L	= 41.89'
E	= 0.44'
C	= 41.88'
C.B.	= N 68°4'59" E
P.C.	= Sta. 12+21.26
P.T.	= Sta. 12+63.15

DESCRIPTION	STATION	LOCATION	NORTH	EAST
POB	20+00.00	Main Ave Nw	409342.7308	2230659.7776
PI	22+40.35	Main Ave NW	409436.6973	2230881.2480
PI	23+76.29	Main Ave NW	409482.8546	2231009.1257
PI	25+58.59	Main Ave NW	409583.7703	2231161.4930
PI	27+10.07	Main Ave NW	409624.6217	2231308.5732
POE	30+50	Main Ave NW	409820.9383	2231577.9453
INTERSECTION	26+98.38 10+00.00	Main Ave WW Tremont Ave NW	409622.1755	2231294.9704
PI	28+29.87	Main Ave W	409725.6618	2231376.9862
PI	29+78.46	Main Ave W	409786.8415	2231515.0552
PI	11+05.18	Tremont Ave SW	409591.8848	2231395.6993
PI	12+42.38	Tremont Ave SW	409650.3753	2231525.1399
POE	13+00.00	Tremont Ave SW	409669.6334	2231579.4726



**STA Main/Tremont RAB**  
Schematic Plan  
City of Massillon  
Stark County, Ohio

COMPANY



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FFW

REVIEWER / DATE  
AP 7/2025

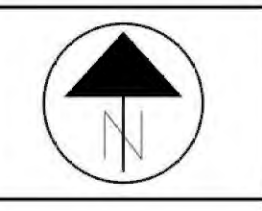
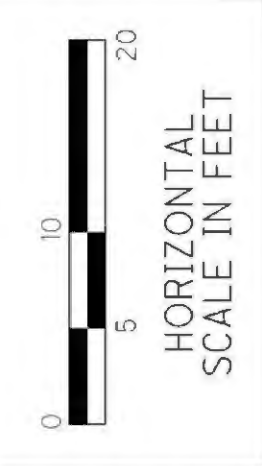
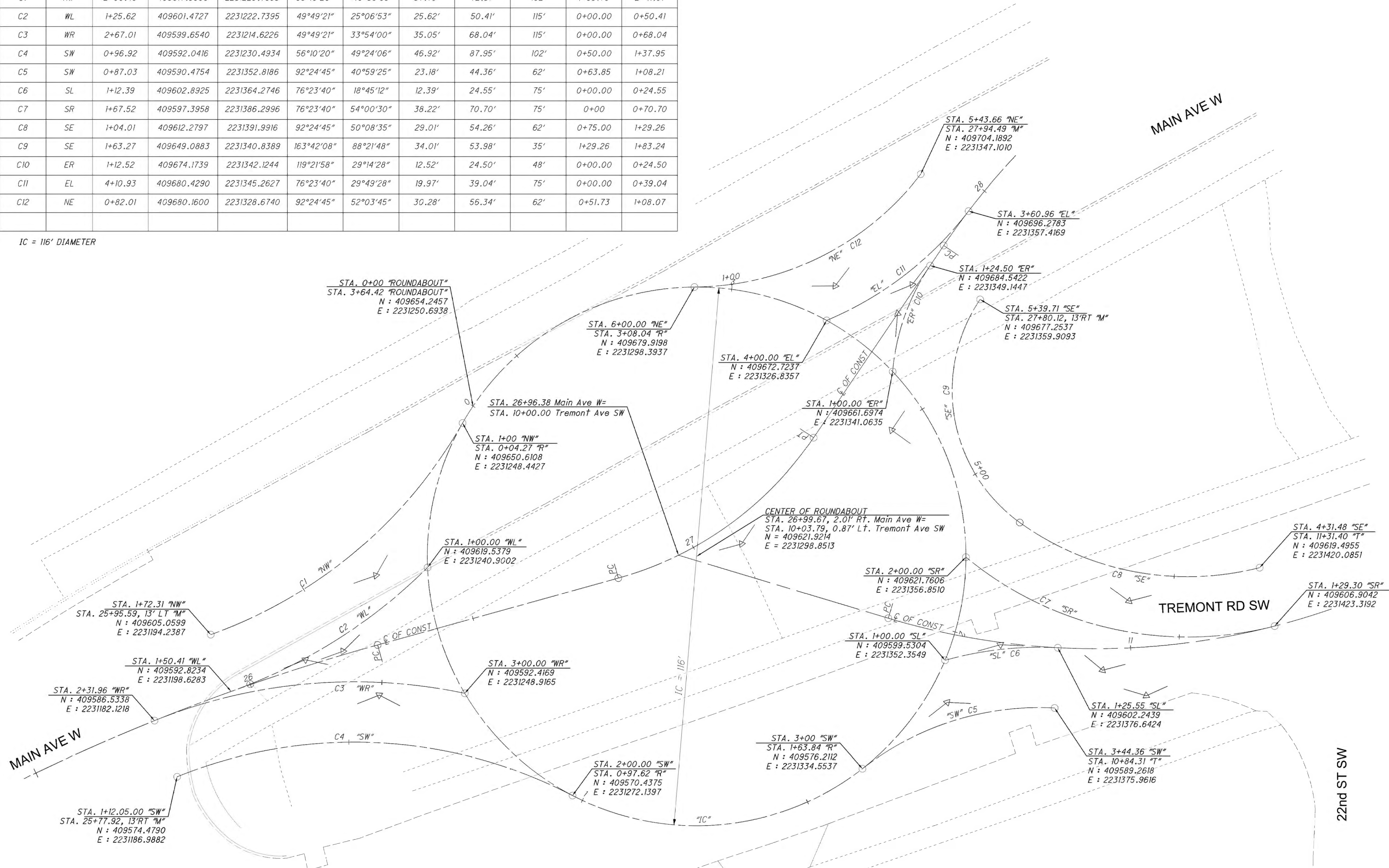
PROJECT ID  
00s108/120493

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CURVE TABLE: ALIGNMENT

CURVE #	REF. LINE	P.I. STATION	P.I. NORTH	P.I. EAST	DEGREE OF CURVE	DELTA	TANGENT LENGTH (FT.)	ARC LENGTH (FT.)	RADIUS	P.C. STATION	P.T. STATION
C1	NW"	2+06.45	409617.8056	2231229.7693	56°10'20"	40°36'59"	37.75'	72.31'	102'	1+68.70	2+41.01
C2	WL	1+25.62	409601.4727	2231222.7395	49°49'21"	25°06'53"	25.62'	50.41'	115'	0+00.00	0+50.41
C3	WR	2+67.01	409599.6540	2231214.6226	49°49'21"	33°54'00"	35.05'	68.04'	115'	0+00.00	0+68.04
C4	SW	0+96.92	409592.0416	2231230.4934	56°10'20"	49°24'06"	46.92'	87.95'	102'	0+50.00	1+37.95
C5	SW	0+87.03	409590.4754	2231352.8186	92°24'45"	40°59'25"	23.18'	44.36'	62'	0+63.85	1+08.21
C6	SL	1+12.39	409602.8925	2231364.2746	76°23'40"	18°45'12"	12.39'	24.55'	75'	0+00.00	0+24.55
C7	SR	1+67.52	409597.3958	2231386.2996	76°23'40"	54°00'30"	38.22'	70.70'	75'	0+00	0+70.70
C8	SE	1+04.01	409612.2797	2231391.9916	92°24'45"	50°08'35"	29.01'	54.26'	62'	0+75.00	1+29.26
C9	SE	1+63.27	409649.0883	2231340.8389	163°42'08"	88°21'48"	34.01'	53.98'	35'	1+29.26	1+83.24
C10	ER	1+12.52	409674.1739	2231342.1244	119°21'58"	29°14'28"	12.52'	24.50'	48'	0+00.00	0+24.50
C11	EL	4+10.93	409680.4290	2231345.2627	76°23'40"	29°49'28"	19.97'	39.04'	75'	0+00.00	0+39.04
C12	NE	0+82.01	409680.1600	2231328.6740	92°24'45"	52°03'45"	30.28'	56.34'	62'	0+51.73	1+08.07

IC = 116' DIAMETER



STA Main/Tremont RAB  
 REFERENCE LINE LAYOUT PLAN  
 City of Massillon  
 Stark County, Ohio

COMPANY

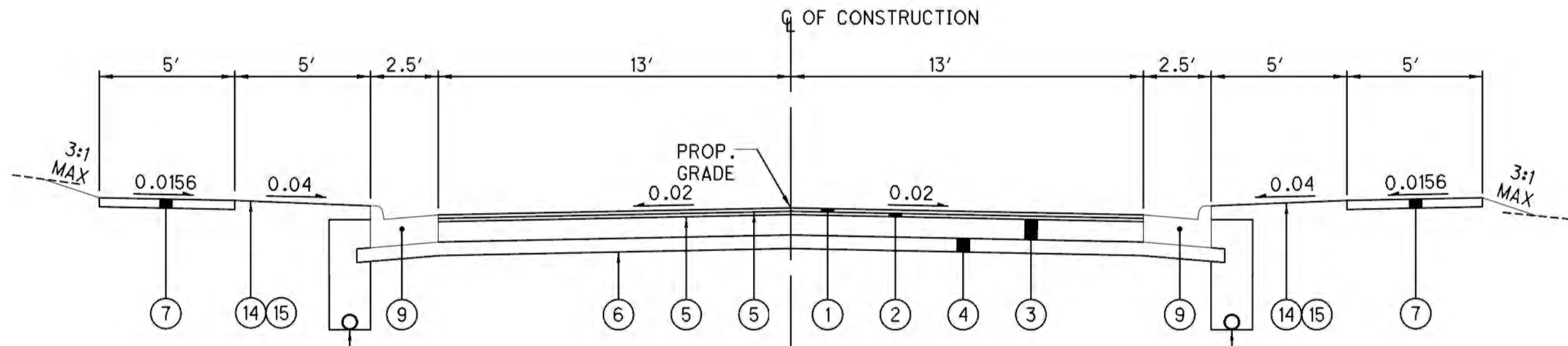
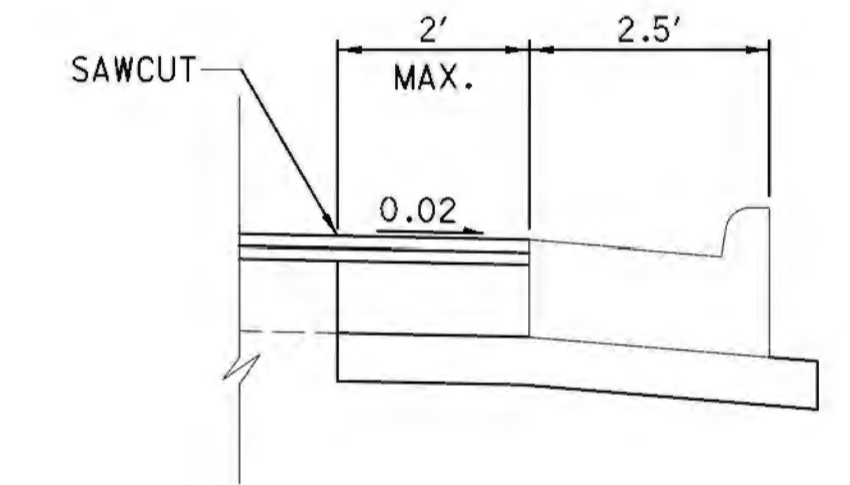
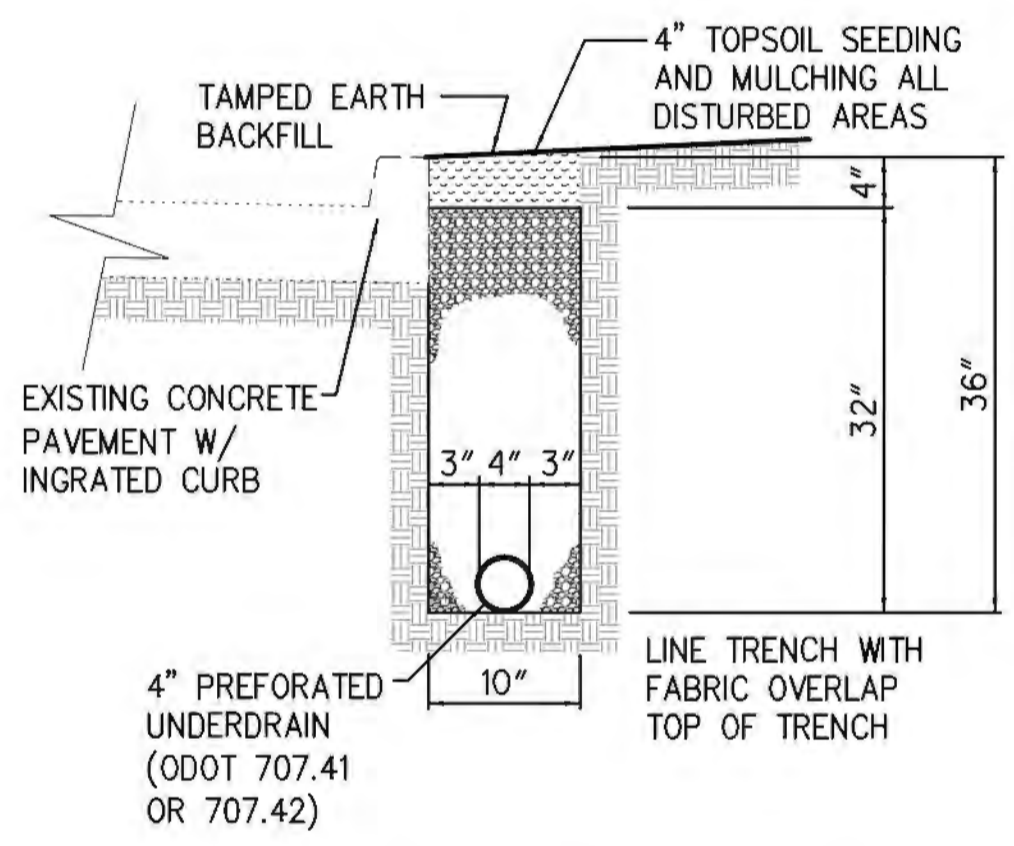
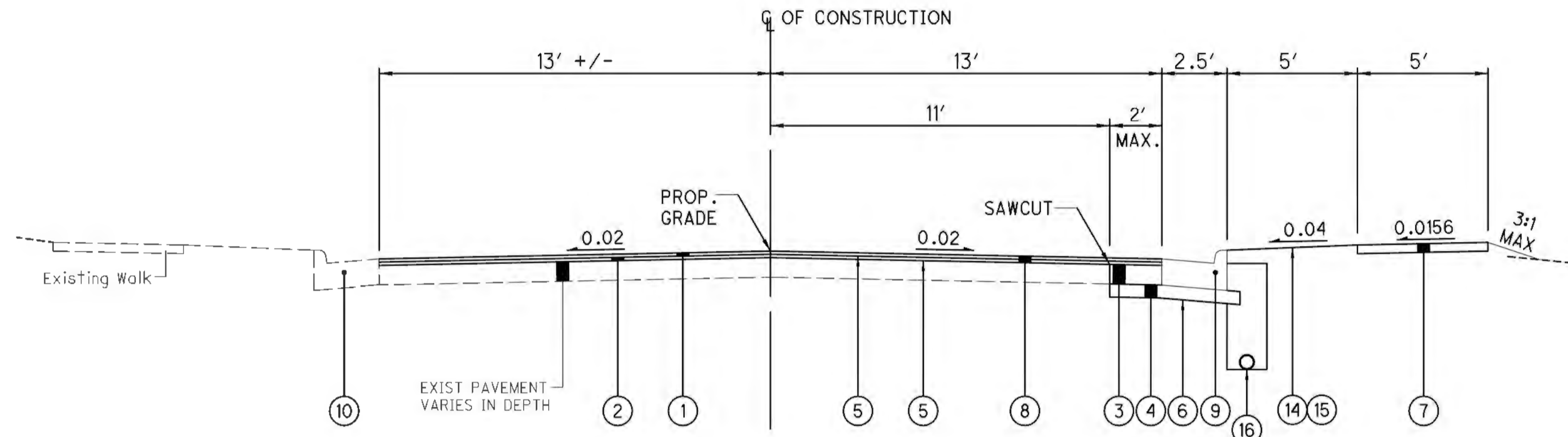
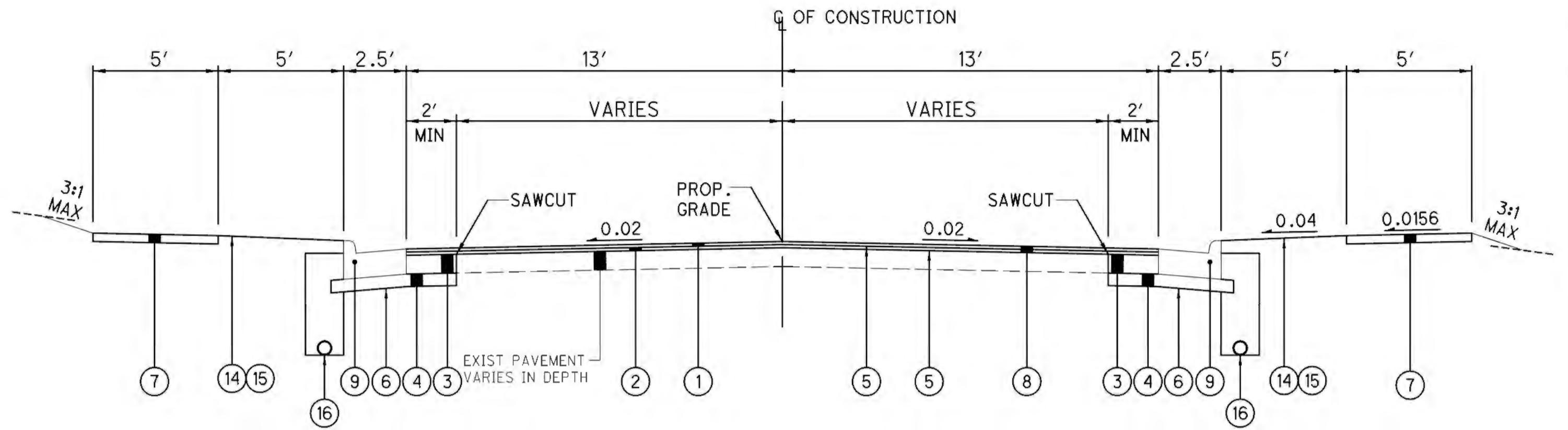
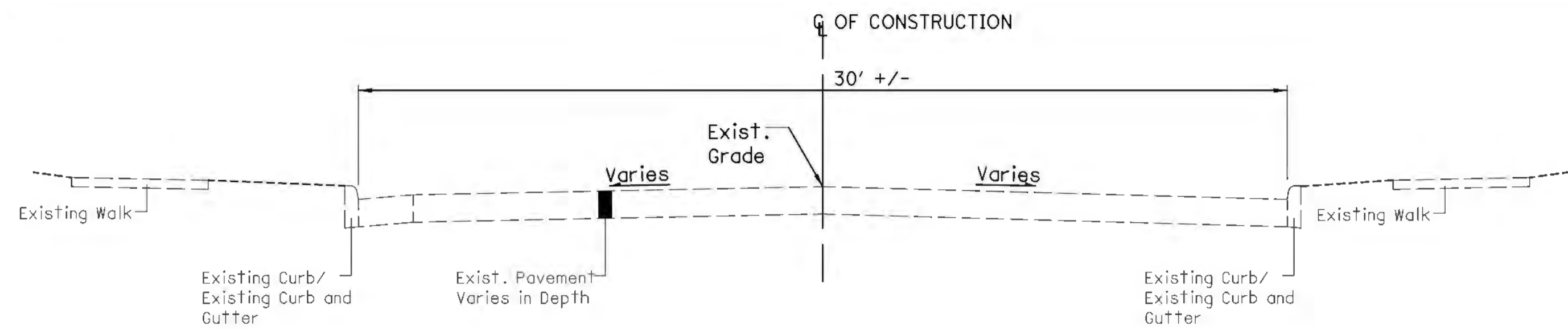


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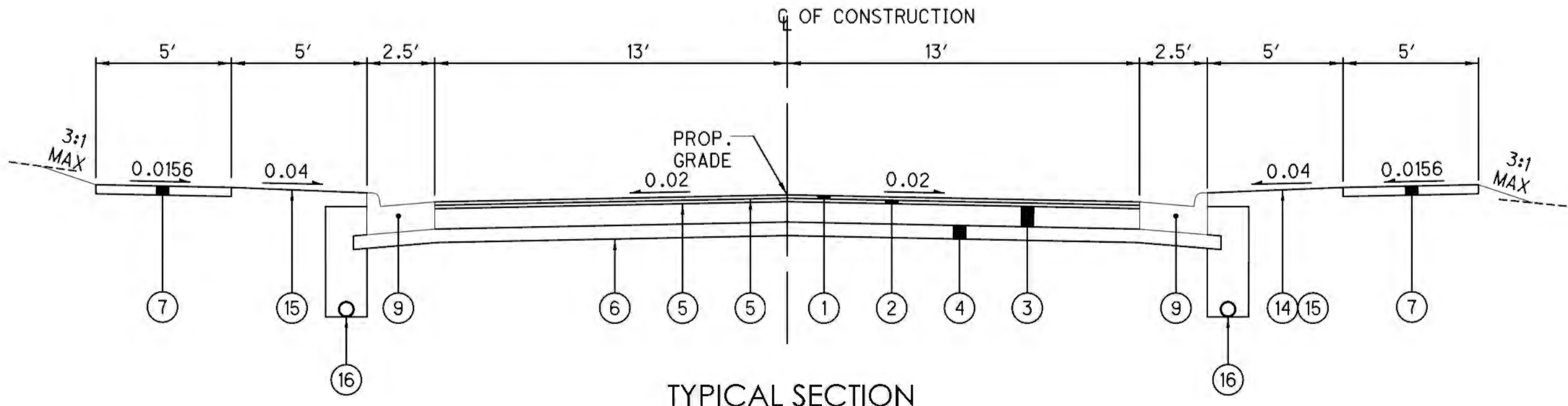
PROJECT ID  
 00s108/120493

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LEFT  
STA 25+50.64 TO STA 25+95.59  
STA 27+80.12 TO STA 29+75

RIGHT  
STA 25+50.64 TO STA 25+77.92  
STA 27+94.49 TO STA 29+75



PROPOSED LEGEND

- ① - ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 [T=1 1/2"]
- ② - ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22 [T=1 1/2"]
- ③ - ITEM 301 - ASPHALT CONCRETE BASE [T=9"] MULTIPLE LIFTS
- ④ - ITEM 304 - AGGREGATE BASE [T=6"]
- ⑤ - ITEM 407 - NON-TRACKING TACK COAT [@0.10 GAL/SQ YD]
- ⑥ - ITEM 204 - SUBGRADE COMPACTION
- ⑦ - ITEM 608 - 4" CONCRETE WALK
- ⑧ - ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE [3" MAX. TO 0" MIN.], AS PER PLAN
- ⑨ - ITEM 609 - COMBINED CURB AND GUTTER, TYPE 2
- ⑩ - ITEM 609 - CURB, TYPE 6
- ⑪ - ITEM 609 - INTERIOR MOUNTABLE TRUCK APRON CURB
- ⑫ - ITEM 609 - EXTERIOR MOUNTABLE TRUCK APRON CURB
- ⑬ - ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE) (TRUCK APRON) (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)
- ⑭ - ITEM 659 - TOPSOIL
- ⑮ - ITEM 659 - SEEDING AND MULCHING CLASS 1
- ⑯ - ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC

STA Main/Tremont RAB  
Typical Section  
City of Massillon  
Stark County, Ohio

COMPANY

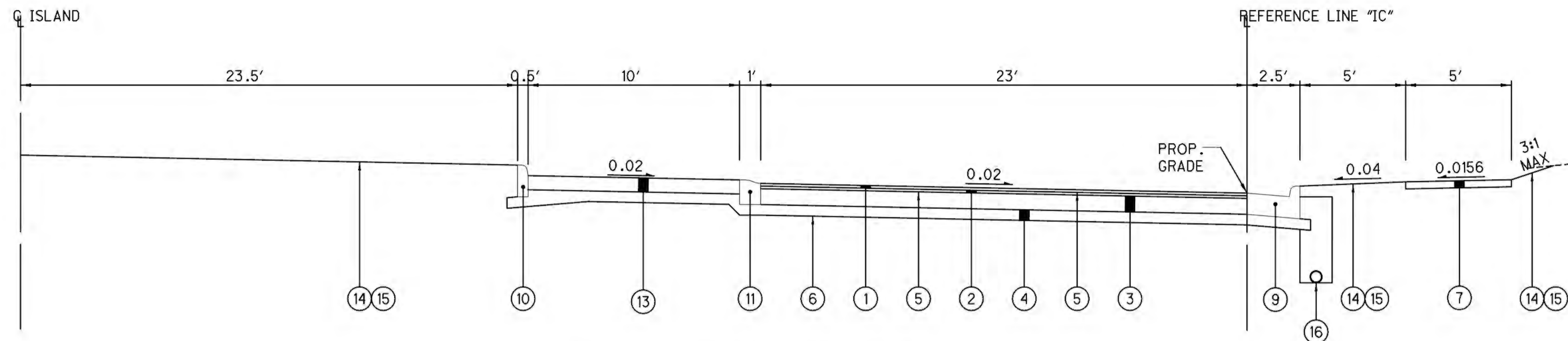


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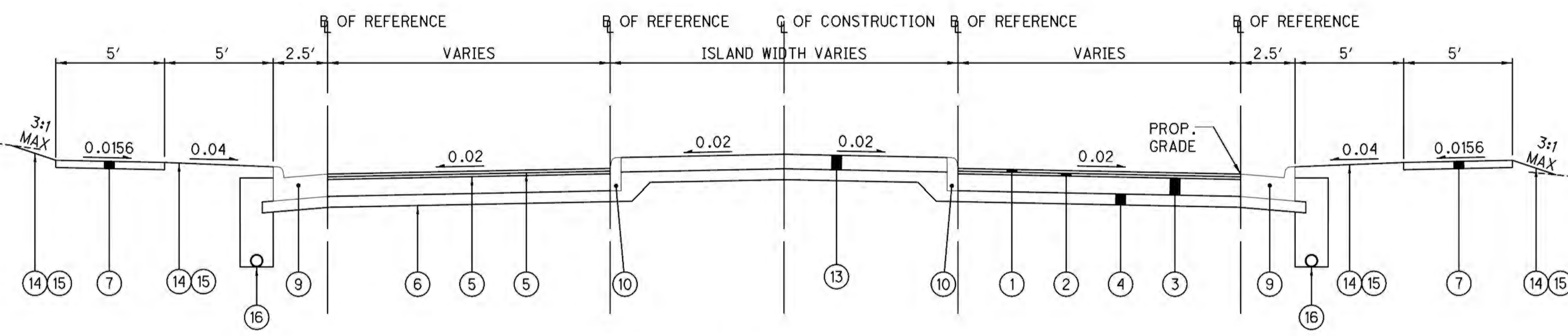
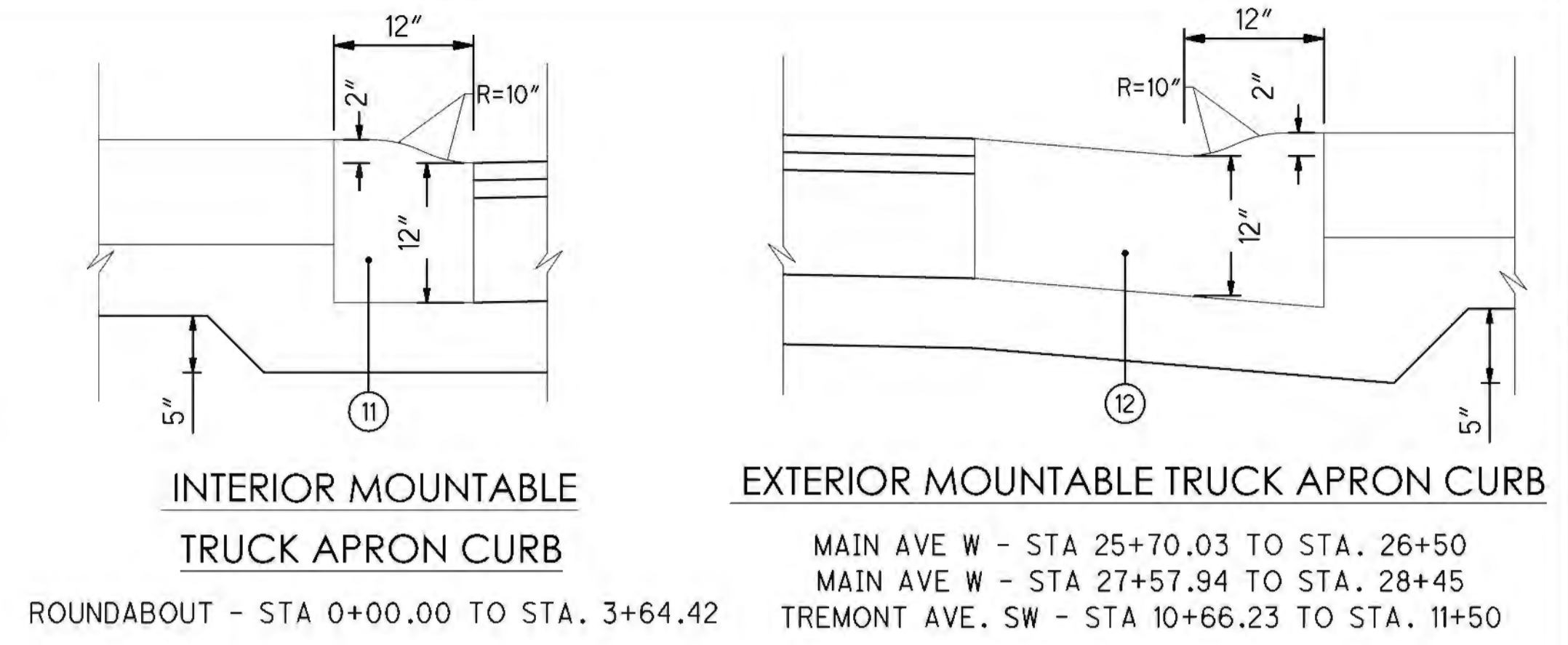
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PROJECT ID  
22ST08 / 120493

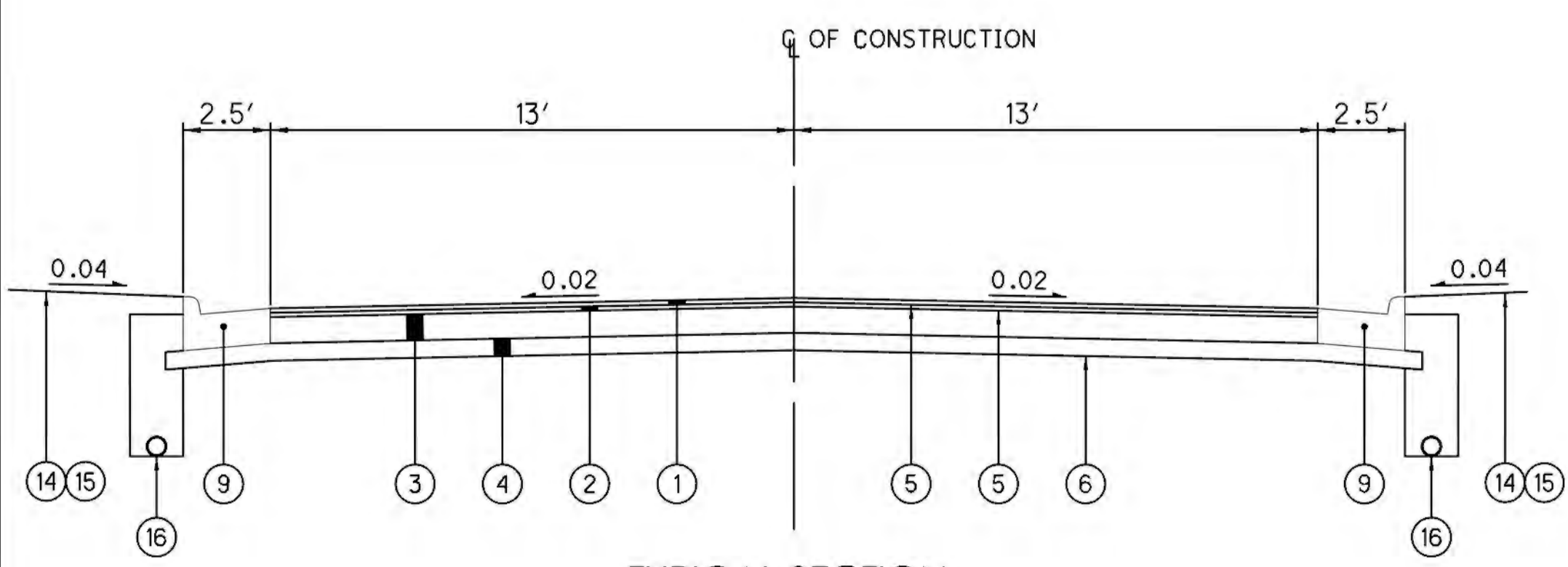
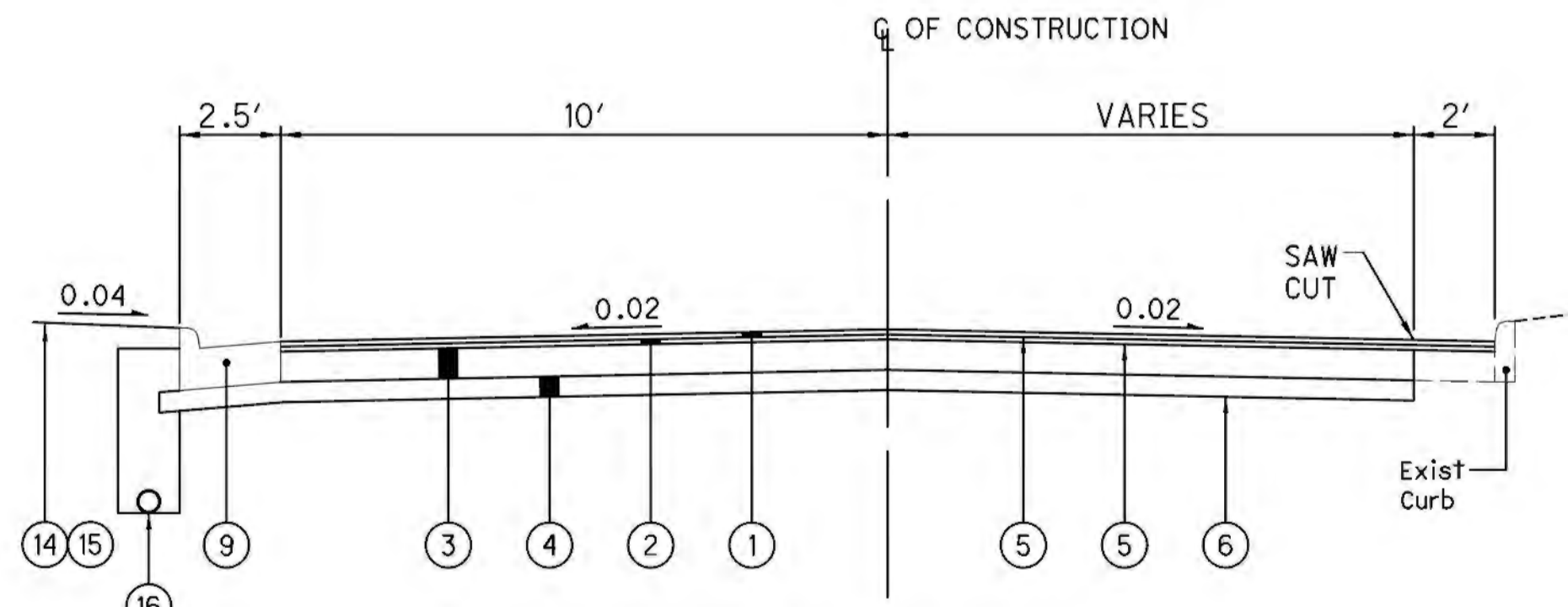
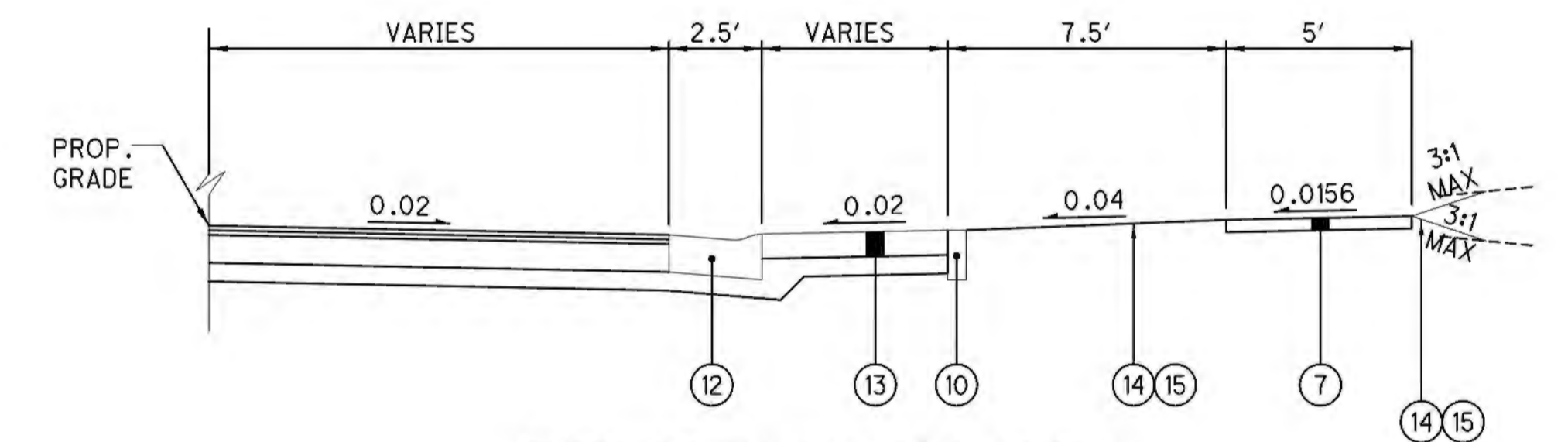
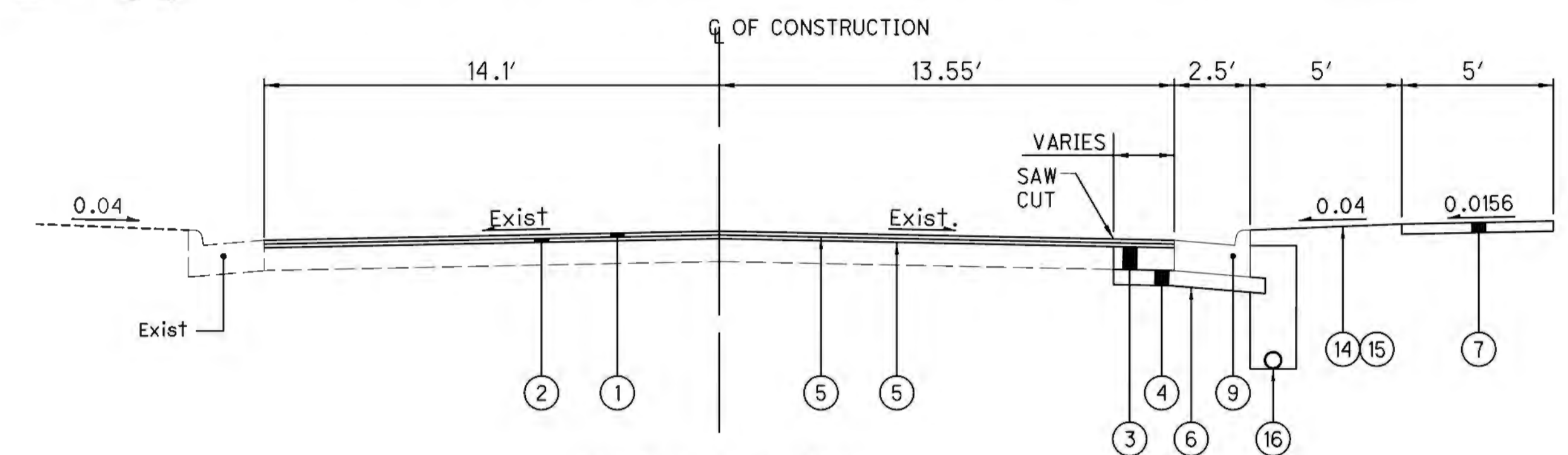
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**TYPICAL SECTION - ROUNDABOUT**  
Roundabout  
STA 0+00 TO STA 3+64.42

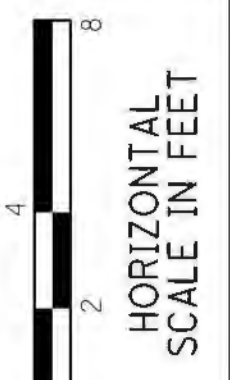


**TYPICAL SECTION - SPLITTER ISLAND**  
Main Ave W  
STA 26+06.79 TO STA 26+39.98  
STA 27+59.71 TO STA 27+76.23  
TREMONT AVE SW  
STA 10+63.82 TO STA 10+99.02



**PROPOSED LEGEND**

- ① - ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 [T=1 1/2"]
- ② - ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22 [T=1 1/2"]
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- ⑤ - ITEM 407 - NON-TRACKING TACK COAT [0.10 GAL/SQ YD]
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- ⑦ - ITEM 608 - 4" CONCRETE WALK
- ⑧ - ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE [3" MAX. TO 0" MIN.], AS PER PLAN
- ⑨ - ITEM 609 - COMBINED CURB AND GUTTER, TYPE 2
- ⑩ - ITEM 609 - CURB, TYPE 6
- ⑪ - ITEM 609 - INTERIOR MOUNTABLE TRUCK APRON CURB
- ⑫ - ITEM 609 - EXTERIOR MOUNTABLE TRUCK APRON CURB
- ⑬ - ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE) (TRUCK APRON) (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)
- ⑭ - ITEM 659 - TOPSOIL FURNISHED AND PLACED
- ⑮ - ITEM 659 - SEEDING AND MULCHING CLASS 1
- ⑯ - ITEM 605 - 4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC



**STA Main/Tremont RAB**  
Typical Section  
City of Massillon  
Stark County, Ohio

COMPANY



DESIGNER

AP

REVIEWER / DATE

FW 3/2025

PROJECT ID

22ST08 / 120493

SHEET

5 49

## ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

## UTILITIES

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

AT&T 50 W. BOWERY, 6TH FLOOR AKRON, OH 44308 800-364-8057	AQUA WATER P.O. BOX 584 MASSILLON, OHIO 44646 (330) 833-4156	OHIO EDISON STARK DIVISION 2600 S ERIE ST. MASSILLON, OH 44646 (330) 830-7085	MCTV P.O. BOX 814 MASSILLON, OH 44646 (330) 833-4134
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CITY OF MASSILLON SANITARY SEWER 151 LINCOLN WAY E MASSILLON, OH 44646 (330) 830-1722	AT&T COMMUNICATIONS 2535 E 40TH AVE. DENVER, CO 80205-3601 (800) 852-3786	ENBRIDGE 4725 SOUTHWAY ST SW CANTON, OH 44706 (330) 478-3142	NORTHEAST OHIO NATURAL GAS CORP 9081 S.R. 250 STRASBURG, OH 44680-9766 (330) 878-5589
---	--	---	---

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

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.:+

## CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

## SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF 43 THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

### PROJECT CONTROL

POSITIONING METHOD: ODOT VRS DATA COLLECTION PER 502.2.H OF SURVEY MANUAL  
MONUMENT TYPE: PROJECTION CONTROL MONUMENT TYPE B

### VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOIOD 12B

### HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)  
ELLIPSOID: GRS80  
MAP PROJECTION: LAMBERT CONFORMAL CONIC  
COORDINATE SYSTEM: OHIO STATE PLANE NORTH ZONE  
COMBINED SCALE FACTOR: 1.0000000000  
ORIGIN OF COORDINATE SYSTEM: EASTING (X): 0, NORTHING (Y): 0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

## STATIONING

ALL STATIONING SHOWN IS REFERENCED TO THE BASELINE AS SHOWN.

## WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS

## PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

## CONTINUE PROTECTION OF RIGHT-OF-WAY LANDSCAPING

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. EXCEPT AS INDICATED ON SHEET ---, USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

## CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING AS PER PLAN. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING AS PER PLAN.

## ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.  
ITEM 204 - PROOF ROLLING 4 HOUR.

## REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

## MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY CITY OF MASSILLON FORCES.

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

## NOTIFICATION OF SAFETY FORCES AND BUS GARAGES

THE CONTRACTOR SHALL NOTIFY ALL AGENCY 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
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PERRY TOWNSHIP HALL 330-833-2141	NORTH LAWRANCE FIRE DEPT 330-832-6347
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TUSCARAWAS TOWNSHIP HALL 330-832-4337	JACKSON FIRE DEPARTMENT 330-832-1553
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MASSILLON POLICE DEPARTMENT 330-830-1849	MASSILLON SCHOOL BUS GARAGE 330-830-1735
JACKSON TOWNSHIP HALL 330-832-7416	PERRY FIRE DEPARTMENT 330-478-5121

JACKSON POLICE DEPARTMENT 330-497-7440	JACKSON SCHOOL BUS GARAGE 330-830-8042
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PERRY POLICE DEPARTMENT 330-833-3865	PERRY SCHOOL BUS GARAGE 330-477-1300
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STARK COUNTY SHERIFF 330-430-3887	TUSCARAWAS SCHOOL BUS GARAGE 330-837-7805
--------------------------------------	--

SARTA  
330-454-5333

## SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	274 CY
659, SEEDING AND MULCHING	2465.3 SY
659, COMMERCIAL FERTILIZER	0.33 TON
659, LIME	0.51 ACRES
659, WATER	13.31 M. GAL.
659, MOWING	5.55 M. SF

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

## RESTORATION FOR DRAINAGE SYSTEMS

ALL NECESSARY MATERIALS AND LABOR TO MAKE PROPER RESTORATIONS TO EXISTING DUE TO THE INSTALLATION REPAIR, REMOVAL OF ANY STORM SEWER SYSTEM. THIS INCLUDES BUT NOT LIMITED TO ROADWAY, CURB, DRIVEWAYS, SIDEWALK, AND LAWNS. PAYMENT TO THE RESTORATION SHALL BE INCLUDED IN THE PERTINENT 611 ITEM.

## 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 CITY OF MASSILLON ENGINEER BEFORE MATERIAL 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 IS TO BE COMPLETED ACCORDING TO THE CURRENT CITY OF MASSILLON SPECIFICATIONS AND STANDARDS, AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN A CONFLICT ARISES BETWEEN THE CITY OF MASSILLON AND ODOT'S STANDARDS, THE MORE STRINGENT STANDARD WILL BE USED AT THE DISCRETION OF THE CITY OF MASSILLON ENGINEER. THE CONTRACTOR SHALL FOLLOW ALL OSHA AND ADA REGULATIONS AND REQUIREMENTS.

## 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 SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

## 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 AND 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.

## ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. 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 THEIR DRIVEWAY.

## SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR 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 INSPECTION OR EXCAVATION. THE BIDDER SHALL CONTACT O.U.P.S. AND OBTAIN LOCATIONS OF OTHER UTILITIES.

## GRADING AND FILLING OPERATIONS

THE PLACEMENT OF COMPACTED AGGREGATE SHALL NOT EXTEND PAST THE EXISTING GRADED SHOULDERS. NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS OR STREAMS, UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS OR STREAMS.

## PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND 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.

## 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.

## CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE THE 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 GRADE 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 CITY OF 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 611 CONDUIT ITEM.

## SAW CUTTING

ALL SAW CUTTING PERFORM ON THIS PROJECT SHALL BE CONSIDERED INCIDENTAL FOR THE CONSTRUCTION OF THIS PROJECT. ALTHOUGH SOME SAW CUTTING IS CALLED OUT ON THE PLANS ADDITIONAL SAW CUTTING MAYBE REQUIRED THIS ALSO SHALL BE CONSIDERED INCIDENTAL.

## RESTORATION

ALL EXISTING ROADWAY, DRIVEWAY, SIDEWALK, AND CURB, ETC. DAMAGED OR REMOVED FOR THE INSTALLATION OF ITEM 605, 611 SHALL BE REPAIRED. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO AT NO ADDITIONAL COST

STA Main/Tremont RAB

General Notes  
City of Massillon  
Stark County, Ohio

COMPANY



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REVIEWER / DATE

AP 7/2025

PROJECT ID

00st08/120493

SHEET

6

SHEET

49

REVIEW OF SANITARY AND DRAINAGE FACILITIES

AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK SHALL BE COMPLETED BEFORE AND AFTER WORK HAS COMMENCED. FINAL ACCEPTANCE BY THE CITY OF MASSILLON WILL NOT OCCUR UNTIL AFTER SAID INSPECTION. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE OBSERVATIONS SHALL BE PROVIDED IN WRITING BY THE CONTRACTOR TO 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 BY 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.

ITEM 407, NON-TRACKING TACK COAT

THE RATE OF APPLICATION OF THE 407 TRACKLESS TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.10 GALLONS PER SQUARE YARD OF TRACKLESS TACK COAT FOR ESTIMATING PURPOSES ONLY.

CONTRACTOR AVAILABILITY

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

ITEM 408, 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.

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 APPLICATION TO BE USED THROUGHOUT CONSTRUCTION LIMITS.

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 CITY OF MASSILLON ENGINEER AND/OR HIS REPRESENTATIVE. 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 MASSILLON OR ODOT AT THE DISCRETION OF THE CITY OF MASSILLON ENGINEER.

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.

ITEM 880 - ASPHALT CONCRETE WITH WARRANTY

INDIVIDUAL LIFT THICKNESSES AND STEP WIDTHS SHOWN IN THE PLAN ARE THE PLAN LINES AND DIMENSIONS USED FOR QUANTITY CALCULATION. THEY ARE NOT THE REQUIRED LIFTS OR STEPS FOR ACTUAL CONSTRUCTION, BUT NO ADJUSTMENT WILL BE MADE TO THE PLAN QUANTITY DUE TO DIFFERENT LIFT THICKNESSES AND/OR STEP WIDTHS WHEN A UNIFORM THICKNESS IS SPECIFIED.

PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

ALL PAVEMENT RESTORATION FOR PIPE INSTALLATION SHALL BE INCLUDED IN THE PERTINENT 202, 611 ITEM.

PAVEMENT RESTORATION FOR STRUCTURE INSTALLATIONS AND/OR REMOVALS

ALL PAVEMENT RESTORATION FOR STRUCTURE INSTALLATION SHALL BE INCLUDED IN THE PERTINENT 202, 611 ITEM.

PETROLEUM CONTAMINATED SOIL (PCS) OR ORPHAN UNDERGROUND STORAGE TANK (UST) REMOVAL - CONTINGENCY

ENVIRONMENTAL STUDIES INDICATED THAT PETROLEUM CONTAMINATED SOIL (PCS) AND ORPHAN UNDERGROUND STORAGE TANKS (USTS) MAY BE ENCOUNTERED DURING EXCAVATIONS WITHIN THE PROJECT LIMITS BETWEEN STA. 25+91 TO STA. 28+16 ON MAIN AVE W AND STA. 10+03 TO STA. 11+12 ON TREMONT AVE SW. THE CONTRACTOR MUST DETERMINE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT FOR THOSE WHO CONDUCT WORK WITHIN THE LIMITS OF THE PCS OR USTs.

ALL EXCAVATED PCS THAT CANNOT BE REUSED AS PROJECT FILL PER CMS 203.03(j), SHALL BE MANAGED AND DISPOSED OF AT A LICENSED LANDFILL. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED PCS INTO TRUCKS FOR TRANSPORT AND DISPOSAL, AS AN ALTERNATE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO TEMPORARILY STOCKPILE THE EXCAVATED PCS ON AN IMPERMEABLE MEMBRANE, IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE STOCKPILE SHOULD BE SURROUNDED BY STRAW BALES TO REDUCE RUNOFF. THE CONTRACTOR WILL PROVIDE COMPLETED LOG FORMS AND MANIFESTS FOR TRANSPORT AND DISPOSAL TO THE ENGINEER FOR SIGNATURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING THAT THE LANDFILL MAY REQUIRE FOR DISPOSAL.

IF EXCAVATIONS WITHIN THE PCS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE AND DISPOSE OF WATERS BY METHOD APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS NEEDED TO STORE, TRANSPORT AND DISPOSE OF WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING REQUIRED FOR DISPOSAL. ALL EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN ACCORDANCE WITH PROJECT PLANS, APPLICABLE ODOT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROPERLY MANAGE, STORE (IF NECESSARY), TEST FOR DISPOSAL, TRANSPORT AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS OR FEES WITHIN THE IDENTIFIED LIMITS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

690E65016 - Work Involving PCS	<u>570</u> Ton
690E65022 - Non-Regulated Water	<u>100</u> Gallon
690E65024 - Regulated Water	<u>100</u> Gallon

STA Main/Tremont RAB  
General Notes  
City of Massillon  
Stark County, Ohio

COMPANY





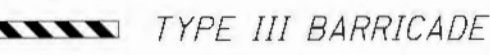

DESIGNER  
FW

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AP 7/2025

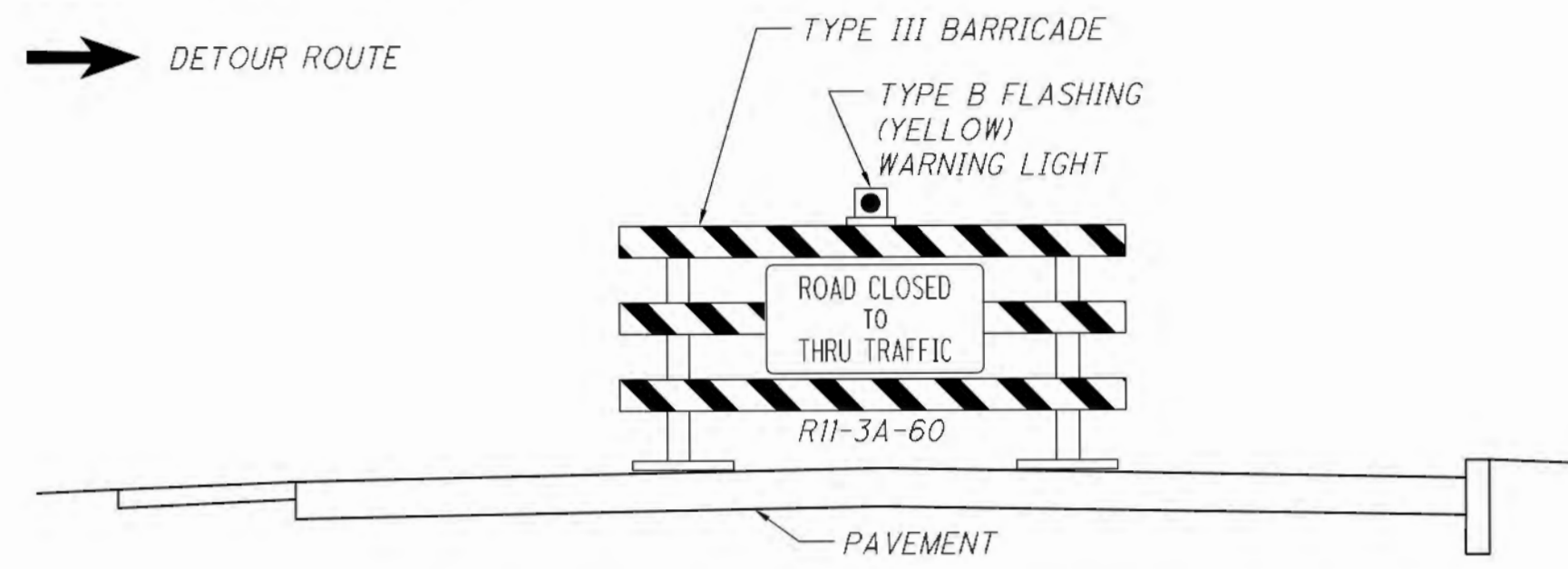
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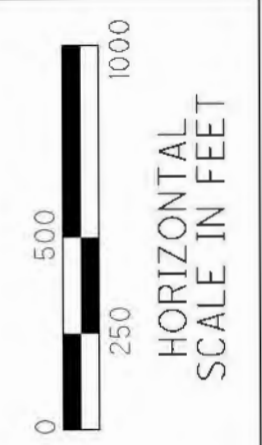
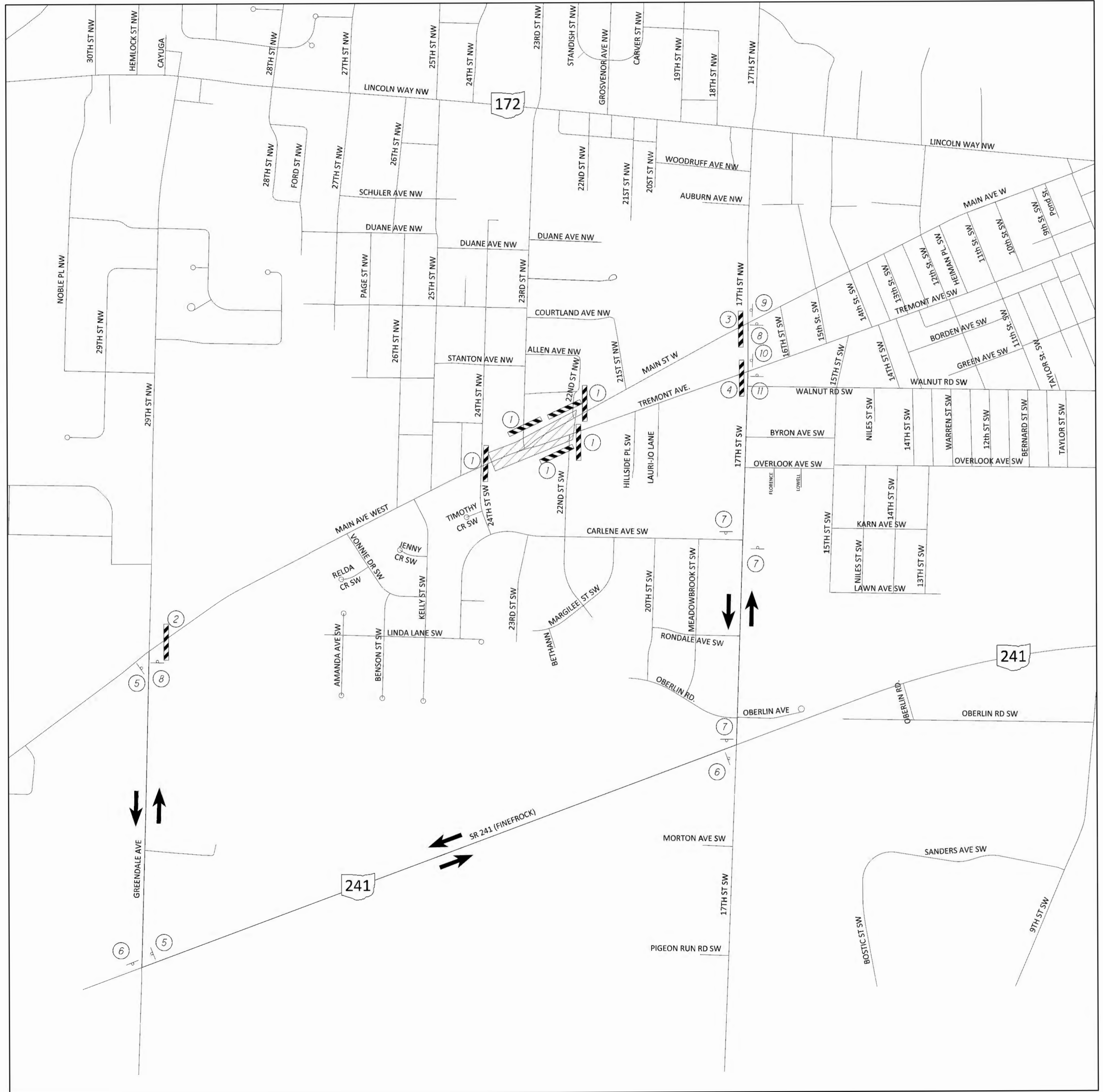
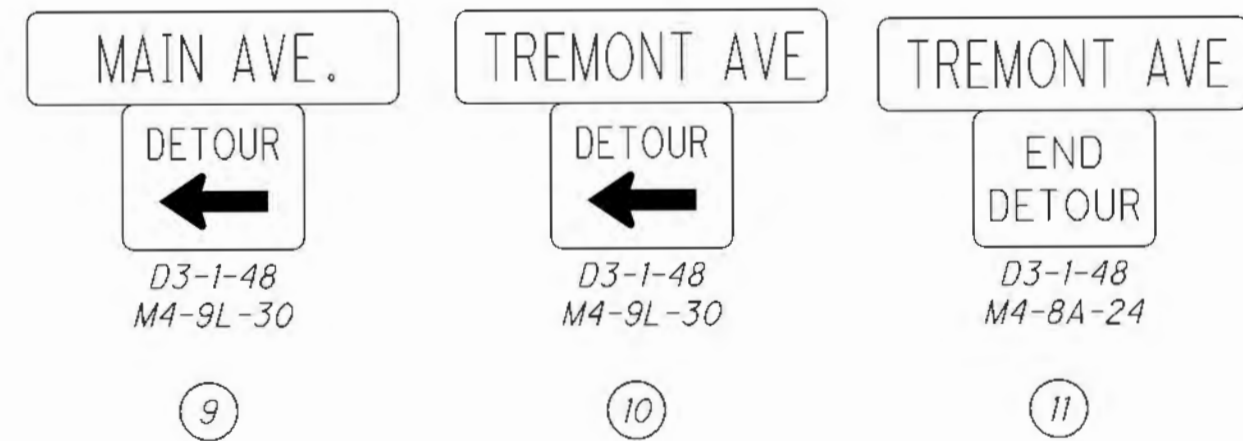
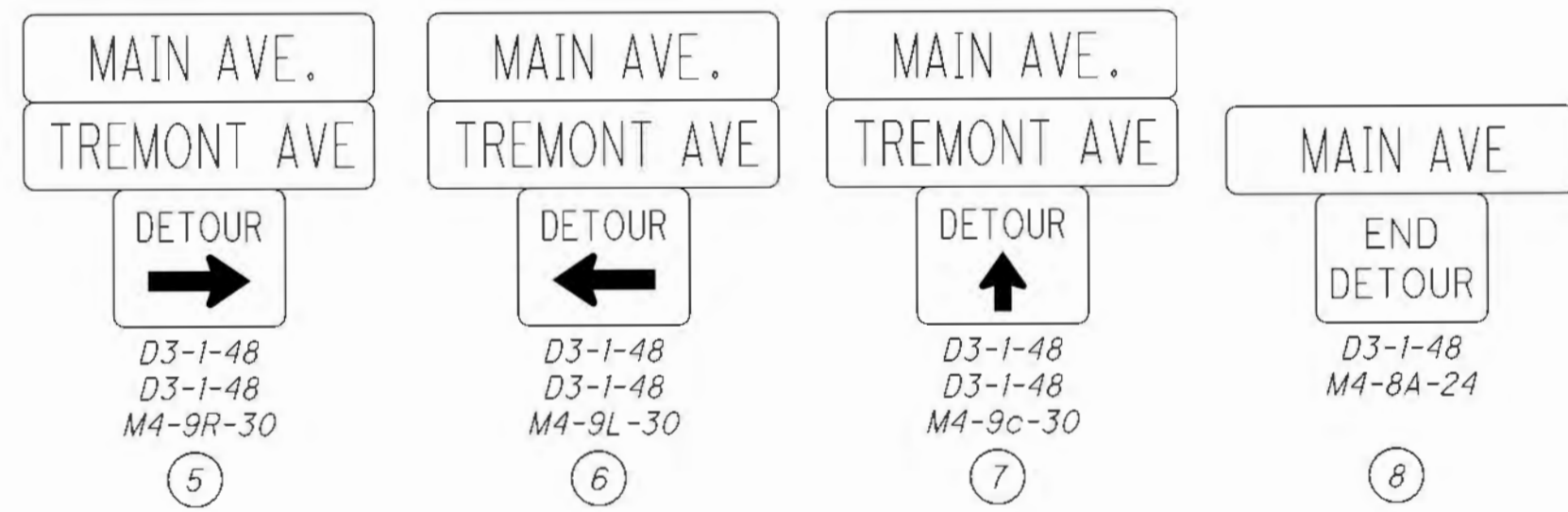
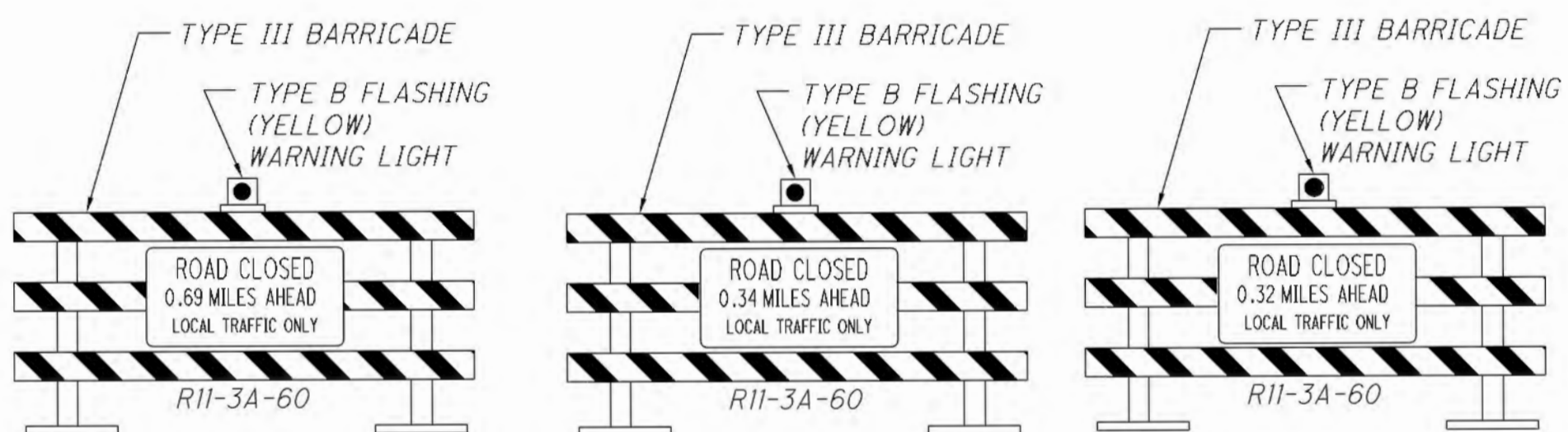
**LEGEND**

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  DETOUR ROUTE

NOTE: MAP, BARRICADES AND SIGNS SHOWN ON THE PLANS ARE NOT DRAWN TO SCALE.



SEE ODOT SCD MT-101.60 FOR ADDITIONAL ROAD CLOSURE REQUIREMENTS



**STA Main/Tremont RAB**  
 Detour Plan  
 City of Massillon  
 Stark County, Ohio

COMPANY



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 FPW

REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00s108/120493

SHEET 8 SHEET 49

FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET NO. 1

SHEET NO.

6	7	8	10	11	12	13	14	15	15	21	23	26	40	48	49	ITEM	ITEM EXT	GRAND TOTAL	UNITS	DESCRIPTION	SEE SHEET NO
																				ROADWAY	
																201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	
																202	23000	47858	SY	PAVEMENT REMOVED	
					987											202	32500	182	FT	CURB AND GUTTER REMOVED	
					987											202	32000	808	FT	CURB REMOVED	
					6815											202	30000	6815	SF	WALK REMOVED	
					382	98	173	68	43							202	34900	382	FT	PIPE REMOVED	
																202	58000	1	EACH	MANHOLE REMOVED	
						1	2	3	2							202	58100	8	EACH	CATCH BASIN REMOVED	
										981	611.9	790.2				203	10000	2383.1	CY	EXCAVATION	
										981.2	63.3	701.7				203	20000	1746.2	CY	EMBANKMENT	
			4185													204	10000	4185	SY	SUBGRADE COMPACTION	
			4													204	45000	4	HOUR	PROOF ROLLING	
																				ENVIRONMENTAL / REMEDIATION	
	570															690	65016	570	TON	WORK INVOLVING PCS	
	100															690	65022	100	GALLON	NON-REGULATED WATER	
	100															690	65024	100	GALLON	REGULATED WATER	
																				EROSION CONTROL	
2																659	00100	2	EACH	SOIL ANALYSIS TEST	
274																659	00300	274	CY	TOPSOIL	
2466																659	00500	2466	SY	SEEDING AND MULCHING, CLASS 1	
0.33																659	11000	0.33	TON	COMMERCIAL FERTILIZER	
0.51																659	31000	0.51	ACRES	LIME	
13.31																659	35000	13.31	M GAL	WATER	
5.55																659	40000	5.55	M SF	MOWING	
LS																83255	99100	LS		SPECIAL CONSTRUCTION EROSION CONTROL	
																				DRAINAGE	
							203	55	57							605	05110	2123	LF	4" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
							3	3	1							611	04400	315	CY	12" CONDUIT, TYPE B	
							1									611	MASSILLON	7	EACH	CATCH BASIN, TYPE MASS7030	
									1							611	MASSILLON	1	EACH	MANHOLE TYPE, MH-MASS7030	
																611	MASSILLON	1	EACH	MANHOLE TYPE, MH-MASSV4510	
							2	1								611	MASSILLON	3	EACH	MANHOLE TYPE, MASS1048-R	
																				PAVEMENT	
		664														254	01001	664	SY	PAVEMENT PLANING, ASPHALT CONCRETE T= 0" TO 3"	
		678														301	56000	678	CY	ASPHALT CONCRETE BASE	
		698														304	20000	698	CY	AGGREGATE BASE	
		838														407	20000	838	GAL	NON-TRACKING TACK COAT	
		953														408	10000	953	GAL	PRIME COAT	
		175														441	10000	175	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22	
		175														441	50200	175	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22	
			399													452	10050*	399	SY	9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE)	
												741.3				452	10050	741.3	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC MS	4
				5780												608	10000	5780	SF	4" CONCRETE WALK	
							215	57	181							608	52000	453	SF	CURB RAMP	4
				1637												609	18000	1637	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				220												609	MASSILLON	220	FT	INTERIOR MOUNTABLE TRUCK APRON CURB	
				370												609	26000	370	FT	CURB, TYPE 6	
				266												609	MASSILLON	266	FT	EXTERIOR MOUNTABLE TRUCK APRON CURB	
																				SANITARY SEWER	
							2	1	1							611	MASSILLON	4	EACH	MANHOLE TYPE, MASS1048AGS-R	
																				TRAFFIC CONTROL	
														233		630	80101	233	SO FT	SIGN, FLAT SHEET, AS PER PLAN	
														438.1		630	04100	438.1	FOOT	GROUND MOUNTED SUPPORT, NO 4 POST TYPE S	
														6		630	08600	6	EACH	SIGN POST REFLECTOR	
																632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSATALLATION	
																644	00620	220	FOOT	CROSSWALK LINE, 12"	
																644	00700	36	FOOT	TRANSVERSE/ DIAGONAL LINE	
																644	00104	0.02	MILE	EDGE LINE, 6" (WHITE)	
																644	00104	0.07	MILE	EDGE LINE, 6" (YELLOW)	
																644	00300	0.14	MILE	CENTER LINE, 6"	
																644	01510	86	FOOT	DOTTED LINE, 6"	
																644	20800	38	FOOT	PAVEMENT MARKING, MISC.: YIELD LINE	
																				LANDSCAPING	
															193	661	NA	193	SY	MULCH, AS PER PLAN [4" THICK]	49
															4	661	NA	4	EACH	GREEN VASE ZELKOVA	
															28	661	NA	28	EACH	SEA GREEN JUNIPER	
															40	661	NA	40	EACH	RUSSIAN SAGE	
															20	661	NA	20	EACH	WALKERS LOW CATMINT	
															28	661	NA	28	EACH	HAPPEY RETURNS DAYLILY	
															20	661	NA	20	EACH	COMBINATION OF COLORS YARROW	
															39	661	NA	39	EACH	BLACKED EYED SUSAN	
															22	661	NA	22	EACH	ADIGIO MAIDEN GRASS	
															1200	662	NA	1200	GALLON	LANDSCAPE WATERING	
																				MAINTENANCE OF TRAFFIC	
																614	12421	LS		DETOUR SIGNING, AS PER PLAN	8
																				INCIDENTALS	
																614	11000	LS		MAINTAINING TRAFFIC	
																623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																624	10000	LS		MOBILIZATION	
																103	06000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND, PAYMENT BOND AND MAINTAINANCE BOND	

STA Main/Tremont RAB  
 General Summary  
 City of Massillon  
 Stark County, Ohio

COMPANY



DESIGNER

FW

REVIEWER / DATE

AP 7/25

PROJECT ID

22sT08 / 120493

SHEET

9 49

**ITEM 204-SUBGRADE COMPACTION**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (5.5) (1/9)	=	160.11	SY
STA. 24+70.09 TO STA. 25+50 (79.91) (11) (1/9)	=	97.67	SY
STA. 25+50 TO STA. 25+77.92 (1805.04) (1/9)	=	200.56	SY
STA. 27+94.48 TO STA. 29+18.56 (4225.6) (1/9)	=	469.52	SY
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (33) (1/9)	=	350.17	SY
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (11025.70) (1/9)	=	1225.08	SY
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (633.03 + 305.05) (1/9)	=	104.23	SY
MAIN AVE W AND ROUNDAABOUT WEST (3247.5) (1/9)	=	360.84	SY
EAST (1887.3) (1/9)	=	209.70	SY
TREMONT AVE SW AND ROUNDAABOUT (2796.8) (1/9)	=	310.76	SY
MAIN AVE W AND 22RD ST NW (3171.34) (1/9)	=	352.37	SY
TREMONT AVE W AND 22ND ST SW (3088.92) (1/9)	=	343.21	SY
<b>TOTAL</b>	<b>=</b>	<b>4185</b>	<b>SY</b>

**ITEM 254 - PAVEMENT PLANNING [0.25' MAX]**

MAIN AVE NW STA. 20+90 TO STA. 25+50 (460) (26) (1/9)	=	1328.89	SY
23RD ST NW STA. 60+3.78 TO STA. 60+66.38 (2056.66) (1/9)	=	228.52	SY
<b>TOTAL</b>	<b>=</b>	<b>664</b>	<b>SY</b>

**ITEM 301-ASPHALT CONCRETE BASE [T=0.75']**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (2) (1.75) (1/27)	=	14.56	CY
STA. 24+70.09 TO STA. 25+50 (79.91) (4) (0.75) (1/27)	=	8.88	CY
STA. 25+50 TO STA. 25+77.92 (725.87) (0.75) (1/27)	=	20.16	CY
STA. 27+94.48 TO STA. 29+18.56 (3225.95) (0.75) (1/27)	=	89.61	CY
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (26) (0.75) (1/27)	=	68.97	CY
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (6719.87) (0.75) (1/27)	=	186.66	CY
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (118.06+240.60) (0.75) (1/27)	=	9.96	CY
MAIN AVE W AND ROUNDAABOUT WEST (2403.30-398.80) (0.75) (1/27)	=	55.68	CY
EAST (1328.08-125.94) (0.75) (1/27)	=	33.39	CY
TREMONT AVE SW AND ROUNDAABOUT (1943.43-320.46) (0.75) (1/27)	=	45.08	CY
MAIN AVE W AND 22RD ST NW (2762.77) (0.75) (1/27)	=	76.74	CY
TREMONT AVE W AND 22ND ST SW (2433.54) (0.75) (1/27)	=	67.60	CY
<b>TOTAL</b>	<b>=</b>	<b>678</b>	<b>CY</b>

**ITEM 304-AGGREGATE BASE [T=0.5']**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (5.5) (0.5) (1/27)	=	26.69	CY
STA. 24+70.09 TO STA. 25+50 (79.91) (11) (0.5) (1/27)	=	16.28	CY
STA. 25+50 TO STA. 25+77.92 (1805.04) (0.5) (1/27)	=	33.43	CY

**ITEM 304-AGGREGATE BASE [T=0.5']**

STA. 27+94.48 TO STA. 29+18.56 (4225.6) (0.5) (1/27)	=	78.25	CY
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (33) (0.5) (1/27)	=	58.36	CY
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (11025.70) (0.5) (1/27)	=	204.18	CY
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (633.03 + 305.05) (0.5) (1/27)	=	17.37	CY
MAIN AVE W AND ROUNDAABOUT WEST (3247.5) (0.5) (1/27)	=	60.14	CY
EAST (1887.3) (0.5) (1/27)	=	34.95	CY
TREMONT AVE SW AND ROUNDAABOUT (2796.8) (0.5) (1/27)	=	51.79	CY
MAIN AVE W AND 22RD ST NW (3171.34) (0.5) (1/27)	=	58.73	CY
TREMONT AVE W AND 22ND ST SW (3088.92) (0.5) (1/27)	=	57.20	CY
<b>TOTAL</b>	<b>=</b>	<b>698</b>	<b>CY</b>

**ITEM 407-TRACKLESS TACK COAT**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (26) (1/9) (0.10)	=	75.69	GAL
STA. 24+70.09 TO STA. 25+50 (79.91) (26) (1/9) (0.10)	=	28.29	GAL
STA. 25+50 TO STA. 25+77.92 (725.87) (1/9) (0.10)	=	8.07	GAL
STA. 27+94.48 TO STA. 29+18.56 (3225.95) (1/9) (0.10)	=	35.85	GAL
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (26) (1/9) (0.10)	=	27.59	GAL
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (6719.87) (1/9) (0.10)	=	74.67	GAL
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (5120.41) (1/9) (0.10)	=	56.9	GAL
MAIN AVE W AND ROUNDAABOUT WEST (2403.30-398.80) (1/9) (0.10)	=	22.28	GAL
EAST (1328.08-125.94) (1/9) (0.10)	=	13.36	GAL
TREMONT AVE SW AND ROUNDAABOUT (1943.43-320.46) (1/9) (0.10)	=	18.04	GAL
MAIN AVE W AND 22RD ST NW (2762.77) (1/9) (0.10)	=	30.70	GAL
TREMONT AVE W AND 22ND ST SW (2433.54) (1/9) (0.10)	=	27.04	GAL
<b>TOTAL</b>	<b>=</b>	<b>419</b>	<b>GAL</b>

**ITEM 408-PRIME COAT**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (2) (1/9) (0.40)	=	11.64	GAL
STA. 24+70.09 TO STA. 25+50 (79.91) (4) (1/9) (0.40)	=	3.55	GAL
STA. 25+50 TO STA. 25+77.92 (725.87) (1/9) (0.40)	=	32.26	GAL
STA. 27+94.48 TO STA. 29+18.56 (3225.95) (1/9) (0.40)	=	143.38	GAL
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (26) (1/9) (0.40)	=	4.24	GAL
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (6719.87) (1/9) (0.40)	=	298.66	GAL
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (118.06+240.60) (1/9) (0.40)	=	15.94	GAL

**ITEM 408-PRIME COAT CONTINUED**

MAIN AVE W AND ROUNDAABOUT WEST (2403.30-398.80) (1/9) (0.40)	=	89.09	GAL
EAST (1328.08-125.94) (1/9) (0.40)	=	53.43	GAL
TREMONT AVE SW AND ROUNDAABOUT (1943.43-320.46) (1/9) (0.40)	=	72.13	GAL
MAIN AVE W AND 22RD ST NW (2762.77) (1/9) (0.40)	=	122.79	GAL
TREMONT AVE W AND 22ND ST SW (2433.54) (1/9) (0.40)	=	105.16	GAL
<b>TOTAL</b>	<b>=</b>	<b>953</b>	<b>GAL</b>

**ITEM 441-ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 [T=0.125']**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (26) (0.125) (1/27)	=	31.54	CY
STA. 24+70.09 TO STA. 25+50 (79.91) (26) (0.125) (1/27)	=	11.79	CY
STA. 25+50 TO STA. 25+77.92 (725.87) (0.125) (1/27)	=	3.36	CY
STA. 27+94.48 TO STA. 29+18.56 (3225.95) (0.125) (1/27)	=	14.94	CY
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (26) (0.125) (1/27)	=	11.50	CY
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (6719.87) (0.125) (1/27)	=	31.11	CY
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (5120.41) (0.125) (1/27)	=	23.71	CY
MAIN AVE W AND ROUNDAABOUT WEST (2403.30-398.80) (0.125) (1/27)	=	9.28	CY
EAST (1328.08-125.94) (0.125) (1/27)	=	5.56	CY
TREMONT AVE SW AND ROUNDAABOUT (1943.43-320.46) (0.125) (1/27)	=	7.51	CY
MAIN AVE W AND 22RD ST NW (2762.77) (0.125) (1/27)	=	12.79	CY
TREMONT AVE W AND 22ND ST SW (2433.54) (0.125) (1/27)	=	11.27	CY
<b>TOTAL</b>	<b>=</b>	<b>175</b>	<b>CY</b>

**ITEM 441-ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22 [T=0.125']**

MAIN AVE NW STA. 20+90 TO STA. 23+52 (262) (26) (0.125) (1/27)	=	31.54	CY
STA. 24+70.09 TO STA. 25+50 (79.91) (26) (0.125) (1/27)	=	11.79	CY
STA. 25+50 TO STA. 25+77.92 (725.87) (0.125) (1/27)	=	3.36	CY
STA. 27+94.48 TO STA. 29+18.56 (3225.95) (0.125) (1/27)	=	14.94	CY
TREMONT AVE SW STA. 11+75.5 TO STA. 12+75 (95.5) (26) (0.125) (1/27)	=	11.50	CY
ROUNDAABOUT STA. 0+00 TO STA. 3+64.42 (6719.87) (0.125) (1/27)	=	31.11	CY
INTERSECTIONS			
MAIN AVE W AND 23RD ST NW (5120.41) (0.125) (1/27)	=	23.71	CY
MAIN AVE W AND ROUNDAABOUT WEST (2403.30-398.80) (0.125) (1/27)	=	9.28	CY
EAST (1328.08-125.94) (0.125) (1/27)	=	5.56	CY
TREMONT AVE SW AND ROUNDAABOUT (1943.43-320.46) (0.125) (1/27)	=	7.51	CY
MAIN AVE W AND 22RD ST NW (2762.77) (0.125) (1/27)	=	12.79	CY
TREMONT AVE W AND 22ND ST SW (2433.54) (0.125) (1/27)	=	11.27	CY
<b>TOTAL</b>	<b>=</b>	<b>175</b>	<b>CY</b>

**STA Main/Tremont RAB**  
 Calculations  
 City of Massillon  
 Stark County, Ohio

COMPANY



DESIGNER  
FW

REVIEWER / DATE  
AP 7/2025

PROJECT ID  
00s108/120493

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**ITEM 452-NON-REINFORCED CONCRETE, CLASS QCMS DECORATIVE [T=0.75']**

MAIN AVE NW STA. 25+70.03 TO STA. 26+50 (235.84) (1/9)	=	26.20	SY
STA. 26+06.79 TO STA. 26+39.98 (353.27) (1/9)	=	38.14	SY
STA. 27+52.68 TO STA. 28+40 (337.88) (1/9)	=	37.54	SY
TREMONT AVE NW 10+65.39 TO 10+99.02 (571.57) (1/9)	=	63.51	CY
10+64.32 TO 11+50 (277.23) (1/9)	=	30.81	CY
ROUND ABOUT STA. 0+00.00 TO STA. 3+64.42 (1822.12) (1/9)	=	202.46	CY
<b>TOTAL</b>	<b>=</b>	<b>399</b>	<b>CY</b>

**ITEM 609-CURB, TYPE 2**

RIGHT MAIN AVE NW STA. 20+90 TO STA. 25+70 480	=	480	LF
STA. 28+40 TO STA. 30+00 160	=	160	LF
TREMONT AVE NW STA. 10+84.31 TO STA. 11+14.44 75.2	=	76	LF
STA. 11+75.50 TO STA. 12+75.00 98.2	=	99	LF
AROUNDABOUT STA. 0+97.64 TO STA. 1+63.86 80.46	=	81	LF
STA. 3+08.06 TO STA. 0+04.27 63.24	=	64	LF
LEFT MAIN AVE W STA. 24+70.16 TO STA. 26+57.33 199.70	=	200	LF
STA. 27+50.00 TO STA. 29+18.56 185.89	=	186	LF
TREMONT AVE SE STA. 11+50 TO STA. 12+75 125	=	125	LF
INTERSECTION MAIN AVE / 23RD ST NW NE 51.93	=	52	LF
MAIN AVE W / 22ND ST NW NE 33.10	=	34	LF
TREMONT AVE SW / 22ND ST SW SW 33.58	=	34	LF
SE 46.00	=	46	LF
<b>TOTAL</b>	<b>=</b>	<b>1637</b>	<b>LF</b>

**ITEM 609-CURB, TYPE 6**

MAIN AVE W ISLAND WEST OF ROUNDABOUT 89.49	=	90	LF
ISLAND EAST OF ROUNDABOUT 43.23	=	44	LF
TREMONT AVE SE ISLAND EAST OF ROUNDABOUT 84.90	=	85	LF
ROUNDABOUT STA. 0+00 TO STA. 3+64.42 147.66	=	151	LF
<b>TOTAL</b>	<b>=</b>	<b>370</b>	<b>LF</b>

**ITEM 609-INTERIOR MOUNTABLE TRUCK APRON CURB**

ROUNDABOUT STA. 0+00 TO STA. 3+64.42 219.91	=	220	LF
<b>TOTAL</b>	<b>=</b>	<b>220</b>	<b>LF</b>

**ITEM 609-EXTERIOR MOUNTABLE TRUCK APRON CURB**

INTERSECTION ROUNDABOUT / MAIN AVE W SE 83.96	=	84	LF
SW 90.37	=	91	LF
ROUNDABOUT / TREMONT AVE SE NE 90.20	=	91	LF
<b>TOTAL</b>	<b>=</b>	<b>266</b>	<b>LF</b>

**ITEM 608-CONCRETE WALK**

MAIN AVE NW RIGHT STA. 20+90 TO STA. 20+16.40 (27) * (5)	=	135	SF
STA. 21+30.87 TO STA. 22+19.19 (89) * (5)	=	445	SF
STA. 22+48.03 TO STA. 23+51.68 (105) * (5)	=	525	SF
STA. 23+76.81 TO STA. 24+29 (55) * (5)	=	275	SF
STA. 24+41 TO STA. 24+88.68 (48) * (5)	=	240	SF
STA. 25+01.32 TO STA. 25+81.06 (76) * (5)	=	380	SF
STA. 25+96.67 TO STA. 26+87.44 (103) * (5)	=	515	SF
STA. 27+64.42 TO STA. 28+65.95 (89) * (5)	=	445	SF
LEFT STA. 24+52.53 TO STA. 24+96.58 (59) * (5)	=	295	SF
STA. 25+08.03 TO STA. 25+41.29 (35) * (5)	=	175	SF
STA. 25+52.71 TO STA. 27+26.87 (152) * (5)	=	760	SF
STA. 27+43.63 TO STA. 27+98.10 (69) * (5)	=	345	SF
STA. 29+18 TO STA. 29+27.39 (10) * (5)	=	50	SF
TREMONT AVE SW RIGHT STA. 10+45.21 TO STA. 11+16.46 (95) * (5)	=	475	SF
STA. 11+71.90 TO STA. 12+00 (29) * (5)	=	145	SF
LEFT STA. 10+75.25 TO STA. 11+91 (103) * (5)	=	515	SF
STA. 12+11 TO STA. 12+22.89 (12) * (5)	=	60	SF
<b>TOTAL</b>	<b>=</b>	<b>5780</b>	<b>SF</b>

**STA Main/Tremont RAB**  
 Calculations  
 City of Massillon  
 Stark County, Ohio

COMPANY



DESIGNER  
FW

REVIEWER / DATE  
AP 6/2025

PROJECT ID  
00s†08/120493

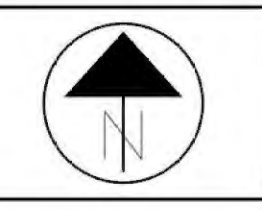
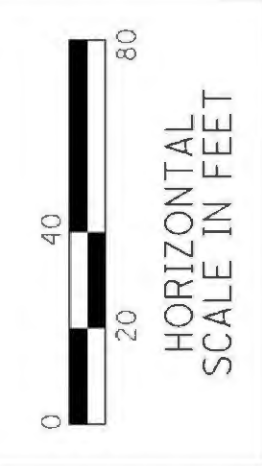
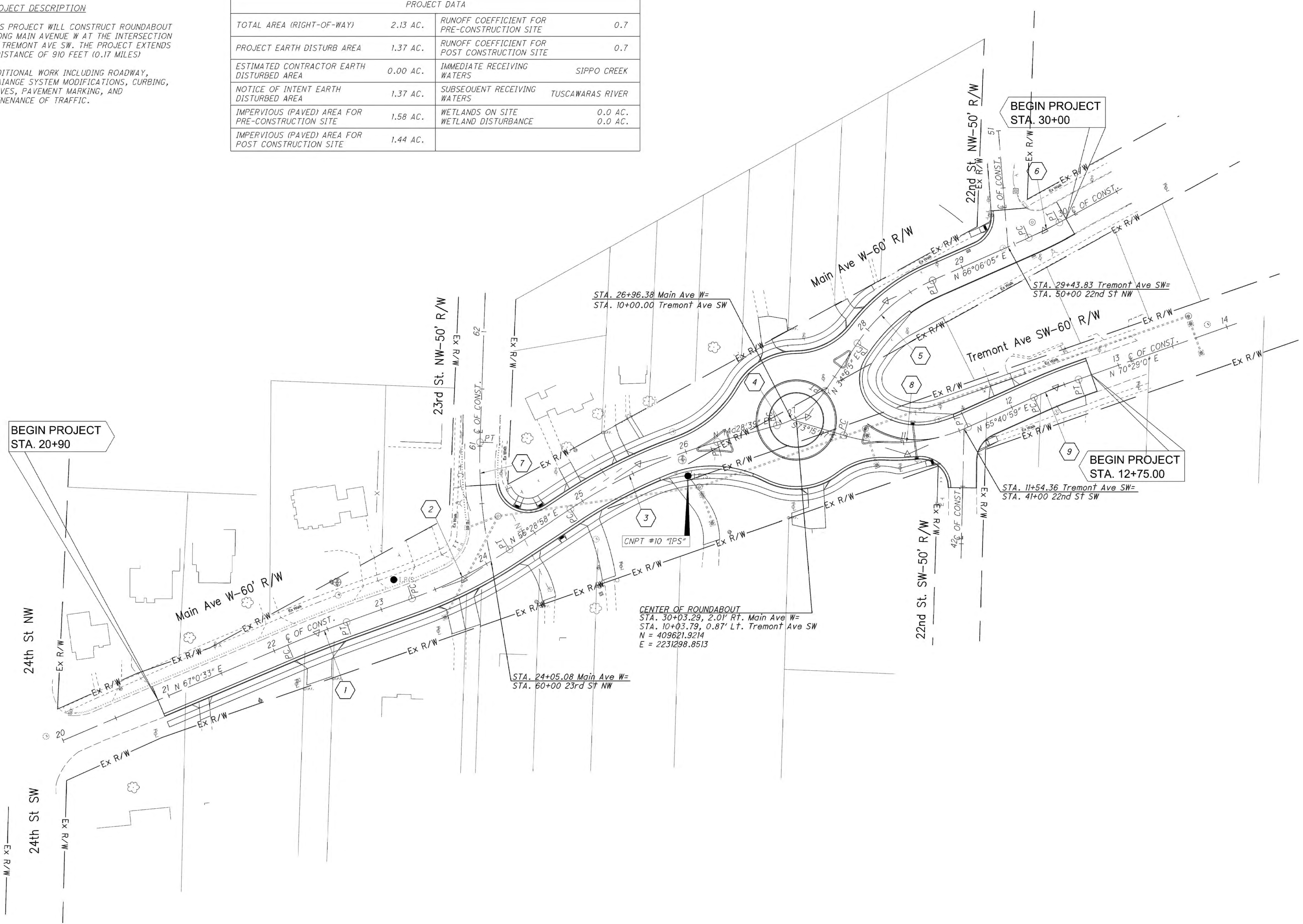
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**PROJECT DESCRIPTION**

THIS PROJECT WILL CONSTRUCT ROUNDABOUT ALONG MAIN AVENUE W AT THE INTERSECTION OF TREMONT AVE SW. THE PROJECT EXTENDS A DISTANCE OF 910 FEET (0.17 MILES)

ADDITIONAL WORK INCLUDING ROADWAY, DRAINAGE SYSTEM MODIFICATIONS, CURBING, DRIVES, PAVEMENT MARKING, AND MAINTENANCE OF TRAFFIC.

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	2.13 AC.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.7
PROJECT EARTH DISTURB AREA	1.37 AC.	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.7
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.00 AC.	IMMEDIATE RECEIVING WATERS	SIPPO CREEK
NOTICE OF INTENT EARTH DISTURBED AREA	1.37 AC.	SUBSEQUENT RECEIVING WATERS	TUSCAWARAS RIVER
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	1.58 AC.	WETLANDS ON SITE	0.0 AC.
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	1.44 AC.	WETLAND DISTURBANCE	0.0 AC.



**STA Main/Tremont RAB**  
 Site Plan  
 City of Massillon  
 Stark County, Ohio

COMPANY

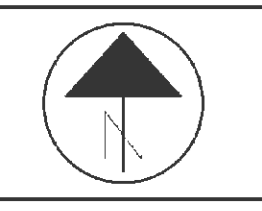
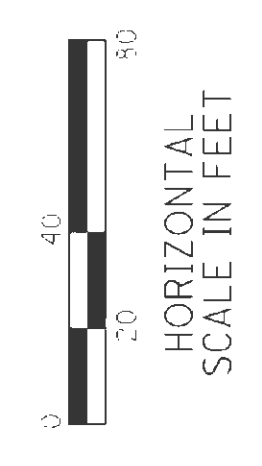


DESIGNER  
 FPW

REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00s108/120493

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**STA Main/Tremont RAB**  
 Removal Plan  
 City of Massillon  
 Stark County, Ohio

COMPANY



DESIGNER

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REVISION DATE

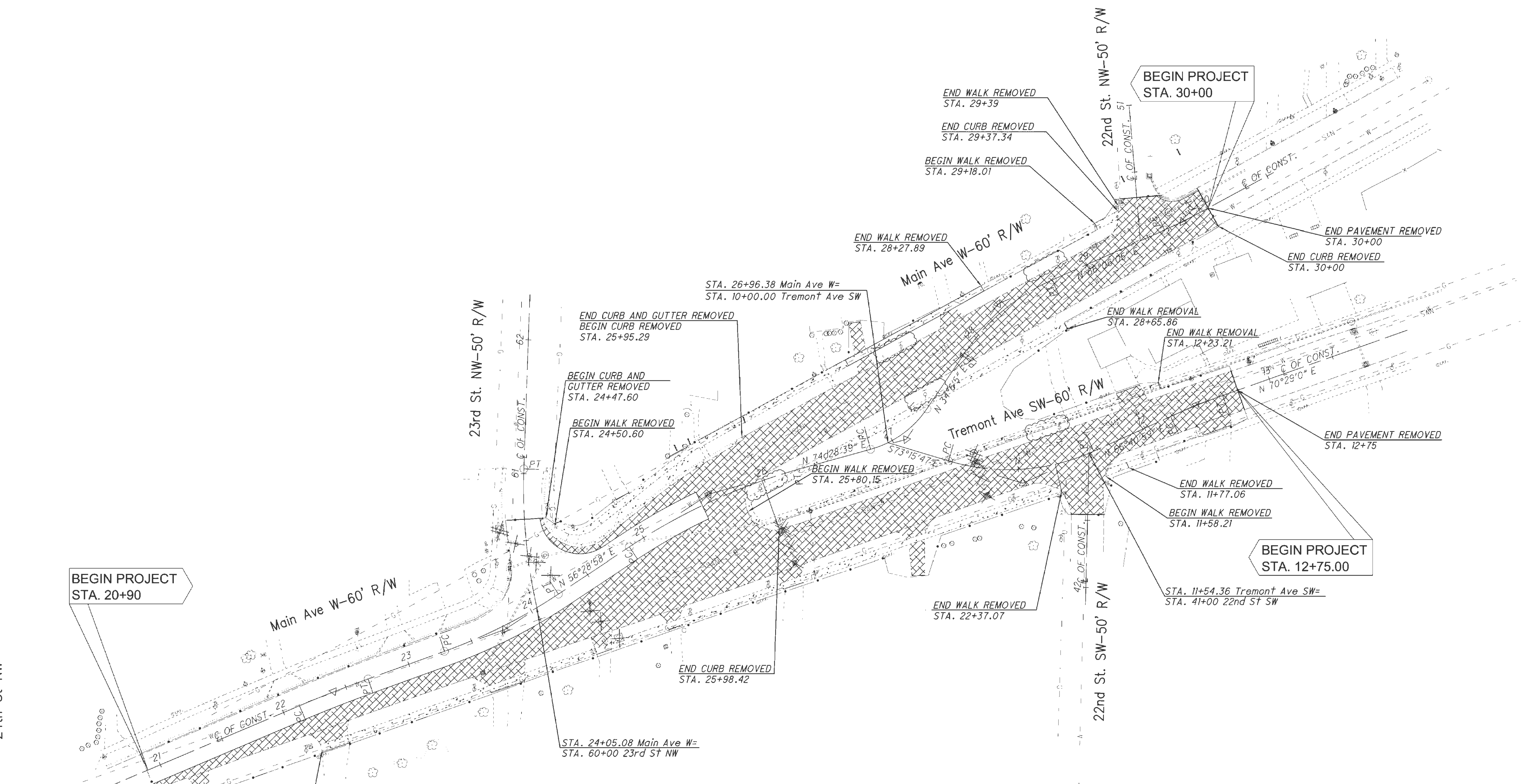
AP 7/2025

PROJECT ID


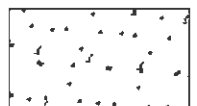


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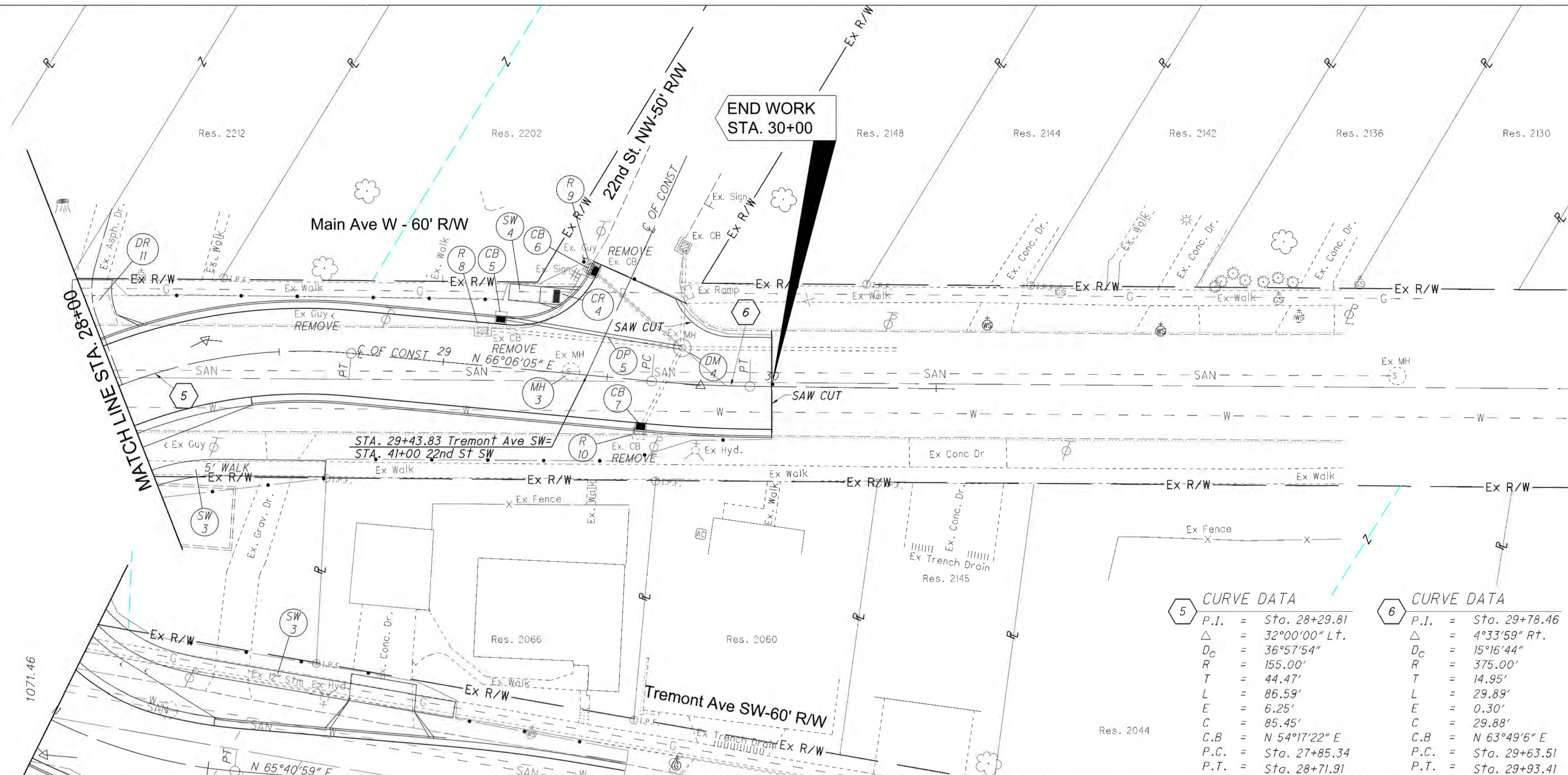


**LEGEND**

-  - ITEM 202 PAVEMENT REMOVED - 4758 SY
-  - ITEM 202 CURB AND GUTTER REMOVED - 182 FOOT  
 - ITEM 202 WALK REMOVED - 6815 S.F.  
 - ITEM 202 CURB REMOVED - 808 FOOT
-  - ITEM 632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION - LUMP SUM
-  - POSSIBLE CONFLICT TO BE ADDRESSED BY PRIVATE UTILITY COMPANYS





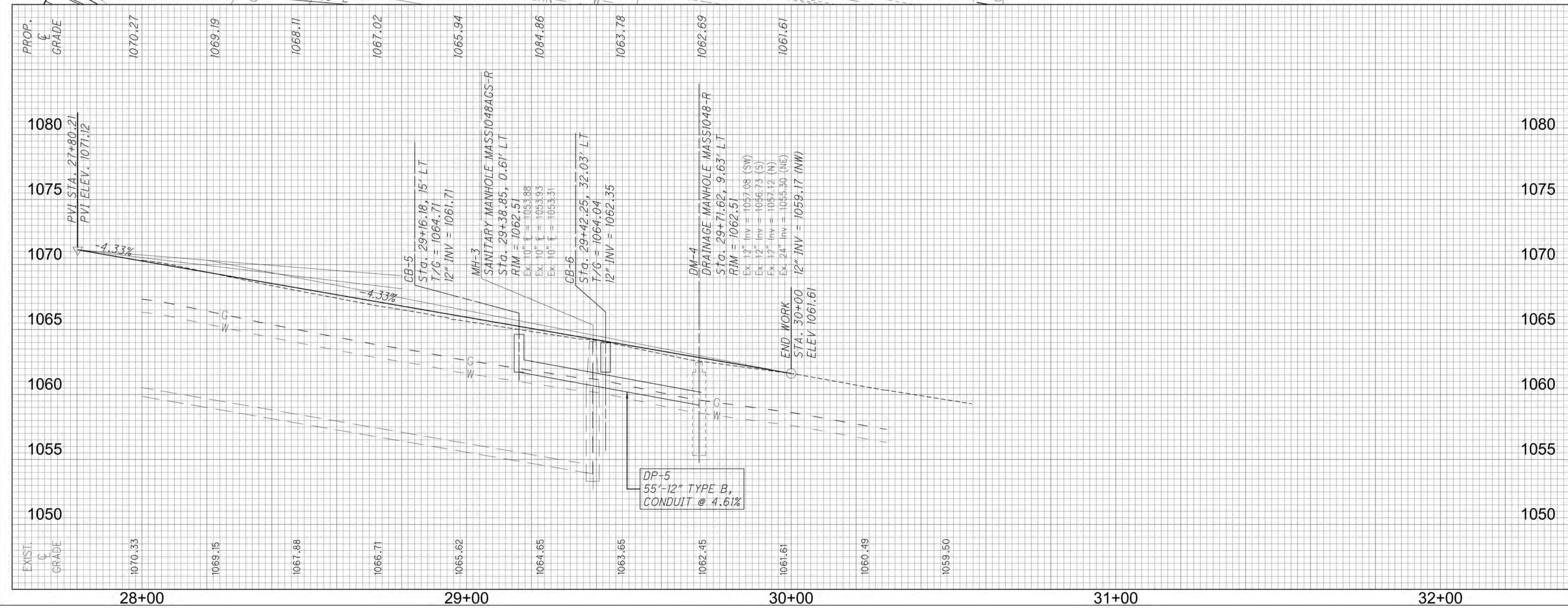


**5 CURVE DATA**

P.I. = Sta. 28+29.81  
 $\Delta$  = 32°00'00" Lt.  
 $D_c$  = 36°57'54"  
 $R$  = 155.00'  
 $T$  = 44.47'  
 $L$  = 86.59'  
 $E$  = 6.25'  
 $C$  = 85.45'  
 $C.B$  = N 54°17'22" E  
 $P.C.$  = Sta. 27+85.34  
 $P.T.$  = Sta. 28+71.91

**6 CURVE DATA**

P.I. = Sta. 29+78.46  
 $\Delta$  = 4°33'59" Rt.  
 $D_c$  = 15°16'44"  
 $R$  = 375.00'  
 $T$  = 14.95'  
 $L$  = 29.89'  
 $E$  = 0.30'  
 $C$  = 29.88'  
 $C.B$  = N 63°49'6" E  
 $P.C.$  = Sta. 29+63.51  
 $P.T.$  = Sta. 29+93.41

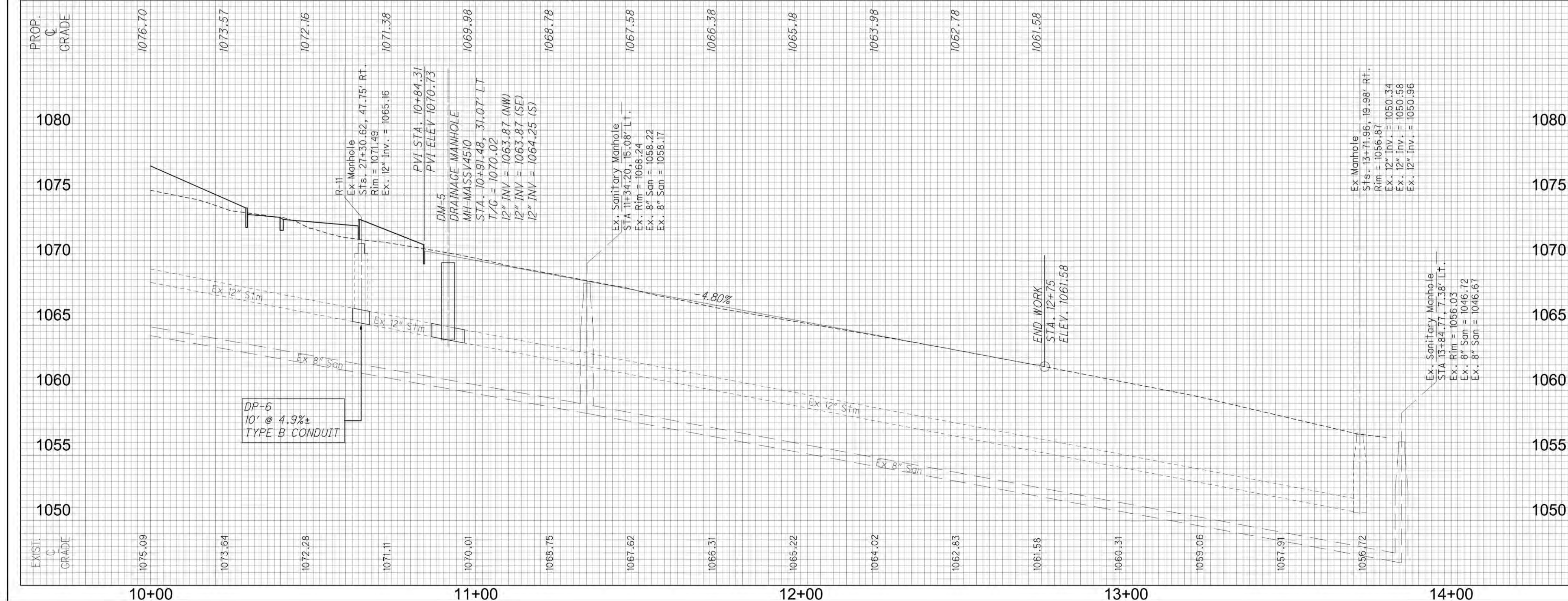
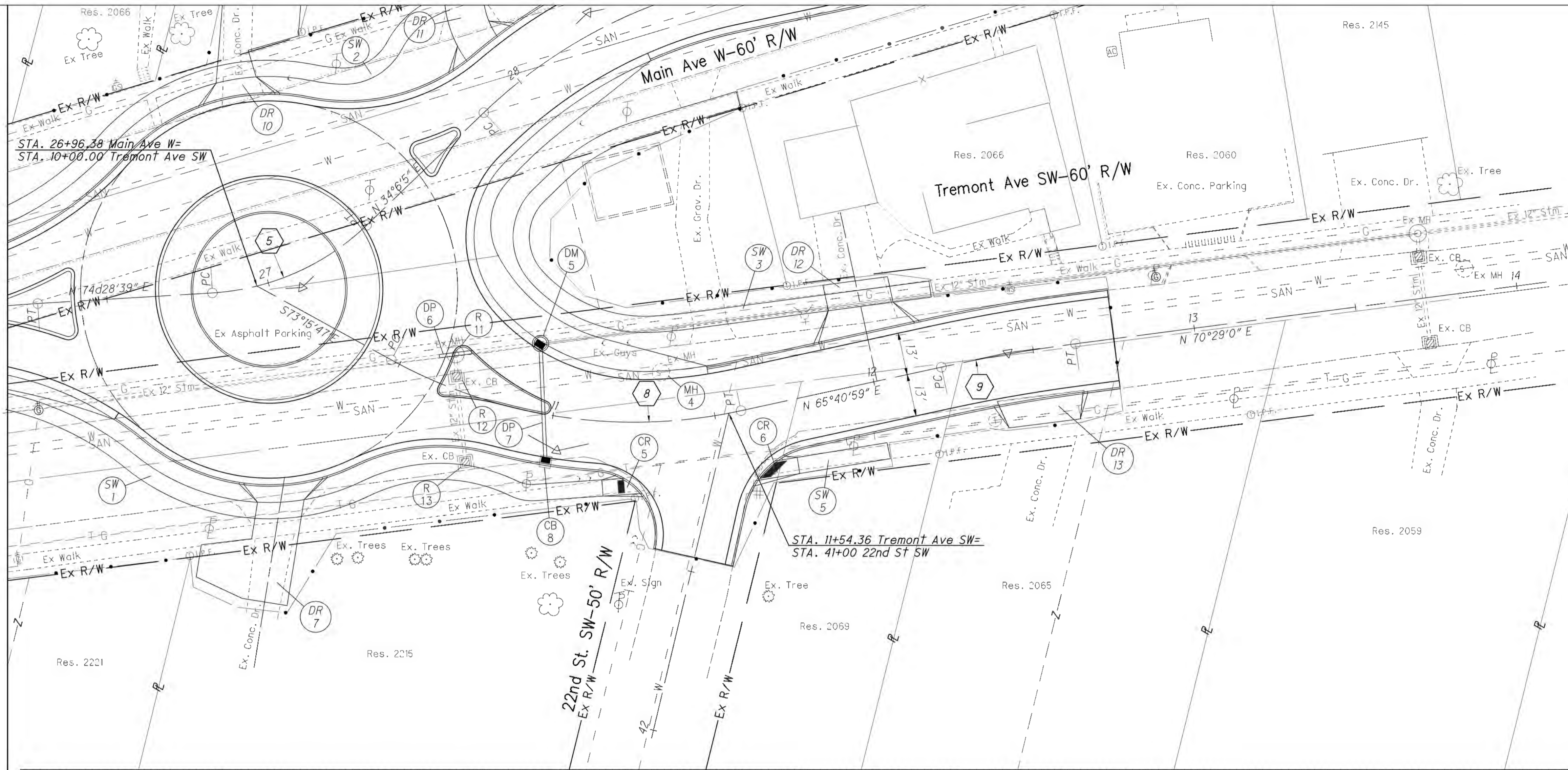


REF.	STATION		SIDE	ITEM	QUANTITY	UNIT
	TO	FROM				
R-8	29+11.01	29+71.62	LT	PIPE REMOVED	58	FOOT
R-9	29+42	29+42	LT	PIPE REMOVED	5	FOOT
R-10	29+69	29+69	RT	PIPE REMOVED	5	FOOT
CB-5	29+16.18	29+16.18	LT	CATCH BASIN REMOVED	1	EACH
CB-6	29+42.25	29+42.25	LT	CATCH BASIN REMOVED	1	EACH
CB-7	29+42.84	29+42.84	RT	CATCH BASIN REMOVED	1	EACH
CR-4	29+42.84	29+42.84	RT	CATCH BASIN REMOVED	1	EACH
DM-4	29+71.62	29+71.62	LT	CATCH BASIN REMOVED	1	EACH
DP-5	29+42	29+71.62	LT	CATCH BASIN REMOVED	1	EACH
MH-3	29+38.85	29+38.85	LT	CATCH BASIN REMOVED	1	EACH
CR-4	29+36.89	29+36.89	LT	CATCH BASIN REMOVED	1	EACH
				CURB RAMP	57	SQ FT
				MANHOLE, MASS1048-R	1	EACH
				MANHOLE MASS1048-R	1	EACH
				12" CONDUIT, TYPE B	55	FOOT
TOTALS CARRIED TO GENERAL SUMMARY					68	

**STA Main/Tremont RAB**  
 Main Ave W - Plan and Profile Sta. 28+00 to Sta. 30+50  
 City of Massillon  
 Stark County, Ohio

DESIGNER: FPW  
 REVIEWER / DATE: AP 7/2025  
 PROJECT ID: 00s108/120493  
 SMT NO.: 16 TOTAL: 49

HORIZONTAL SCALE IN FEET



REF.	STATION		SIDE	PIPE REMOVED	STRUCTURE REMOVED	CURB RAMP	CATCH BASIN	DRAINAGE MANHOLE	MANHOLE	12" CONDUIT	TOTAL						
	TO	FROM															
R-11	10+60	10+54	LT	10	1												
R-12	10+57	10+54	LT	7	1												
R-13	10+82	10+57	LT/RT	26	1												
DM-5	10+91.48	11+00	LT					1		10							
CB-8	11+00	10+69	LT							10							
DP-6	11+00	10+91.48	RT							37							
CR-5	11+25.23		LT			83	1										
CR-6	11+60.99		LT			98											
MH-4	11+34.20		LT						1								
TOTALS CARRIED TO GENERAL SUMMARY											43	3	181	1	1	1	57

**STA Main/Tremont RAB**  
Tremont Rd SW - Plan and Profile Sta. 10+00 to Sta. 14+00  
City of Massillon  
Stark County, Ohio

DESIGNER  
FPW

REVIEWER / DATE  
AP 7/2025

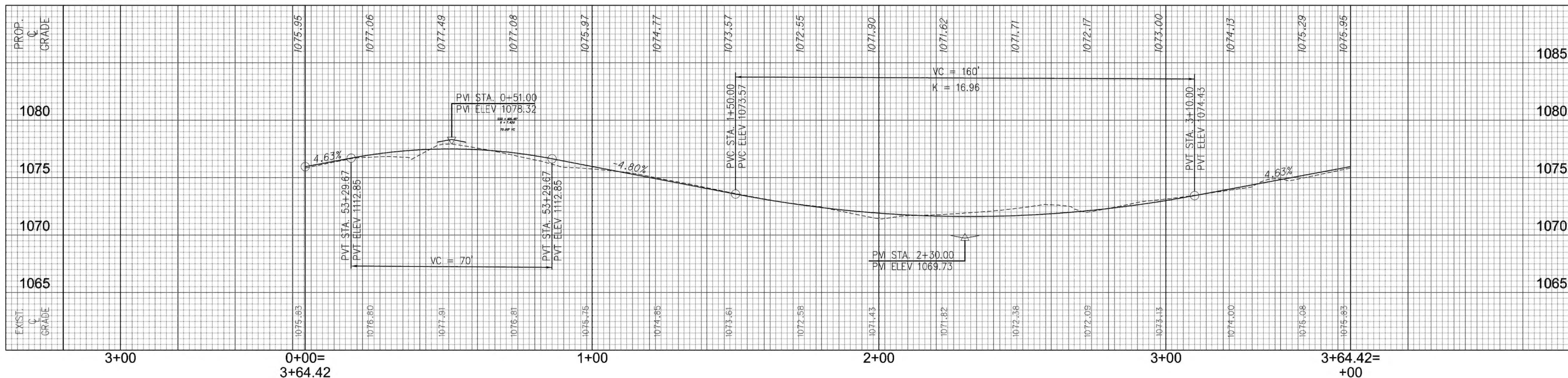
PROJECT ID  
005108/120493

SHT NO. 17 TOTAL 49

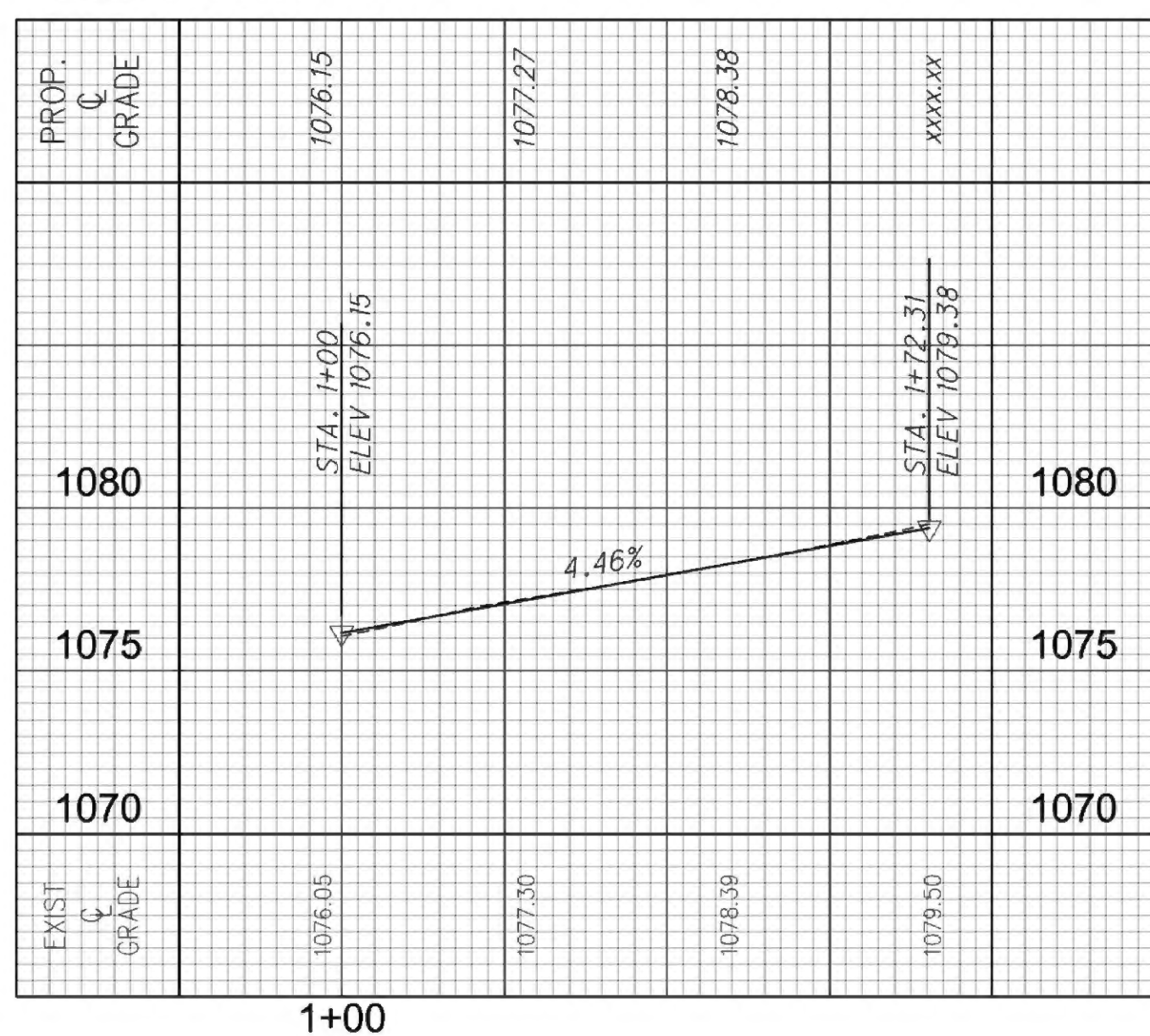
HORIZONTAL SCALE IN FEET

0 10 20 40

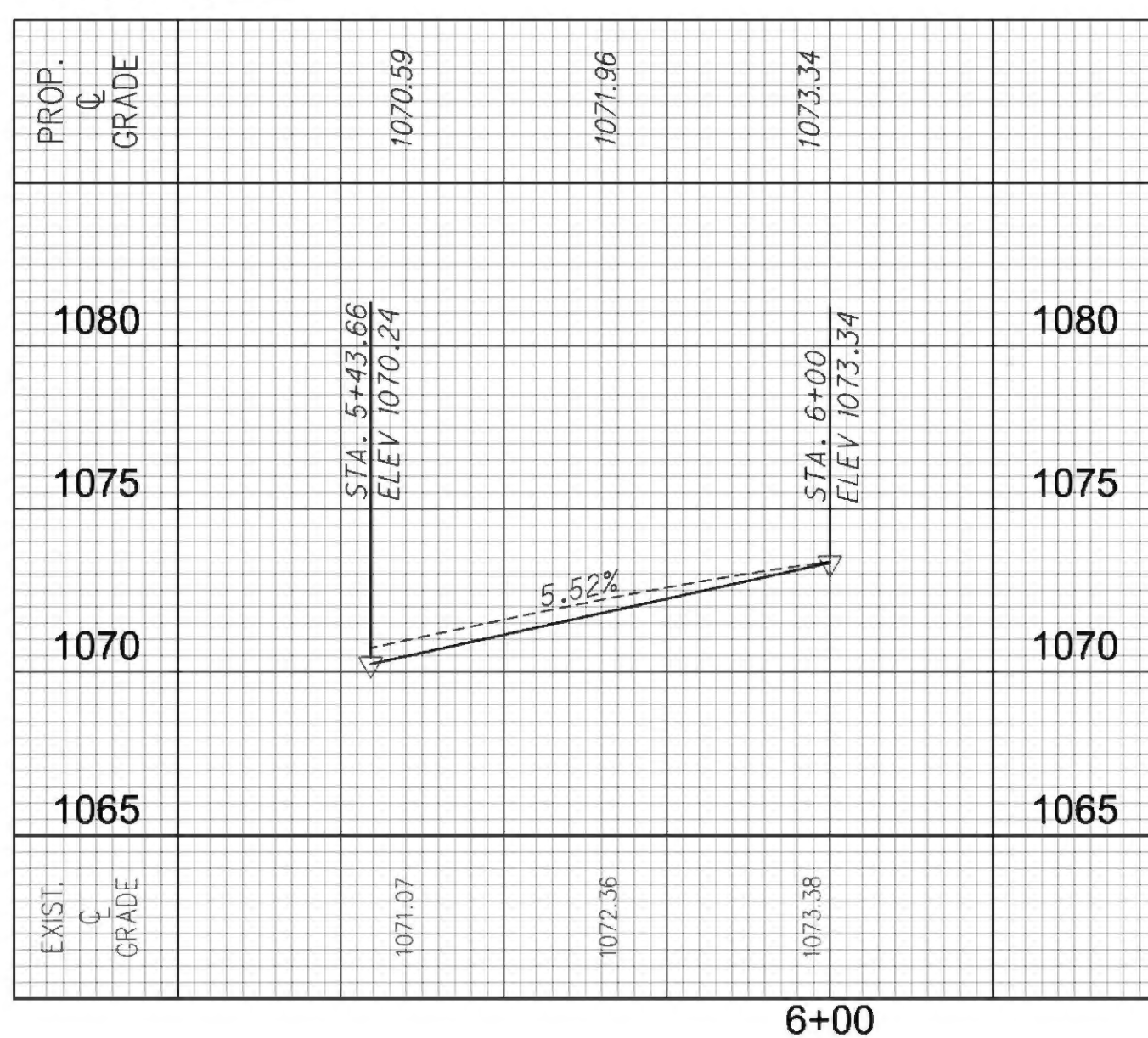
Roundabout



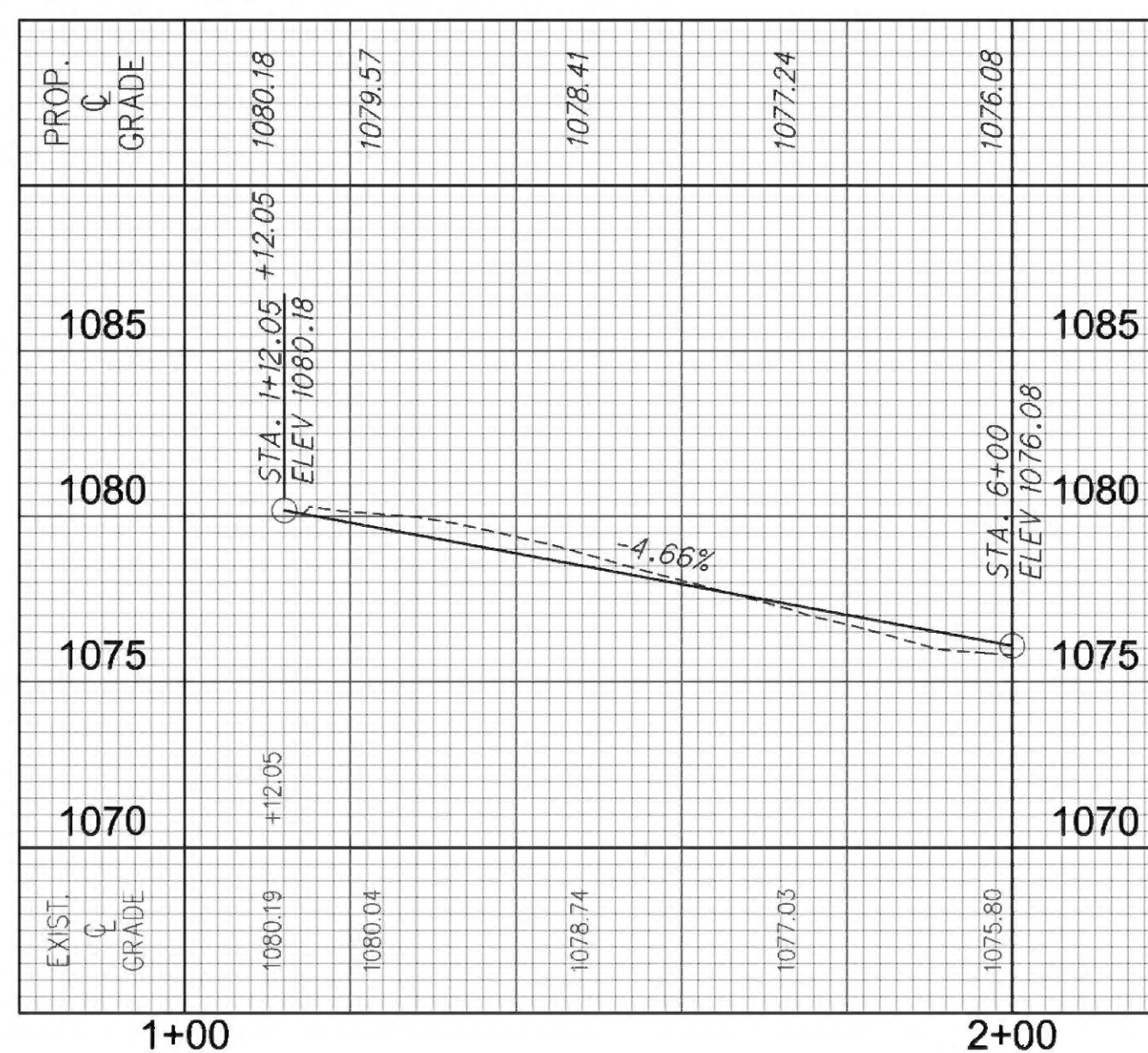
Baseline NW



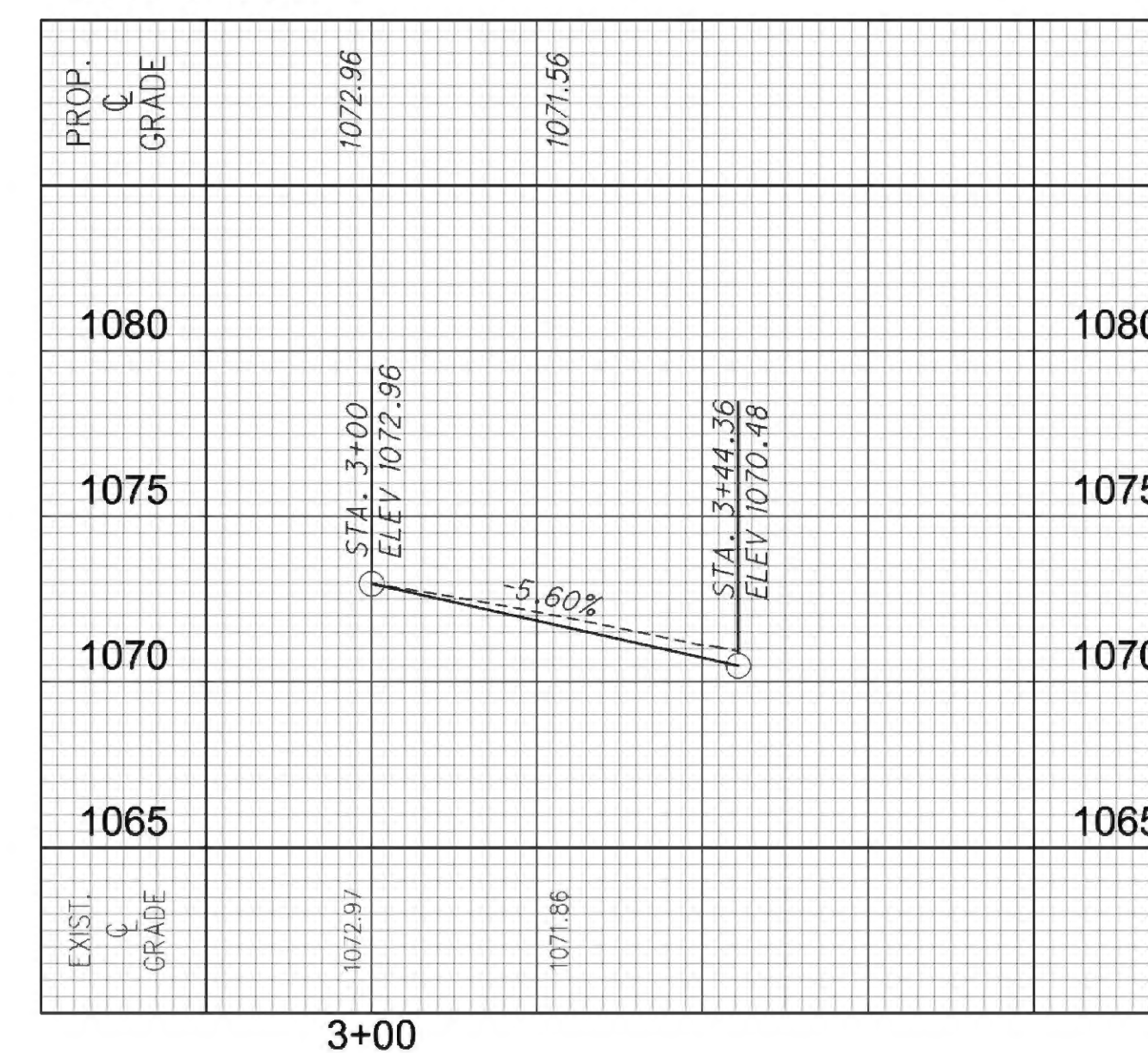
Baseline NE



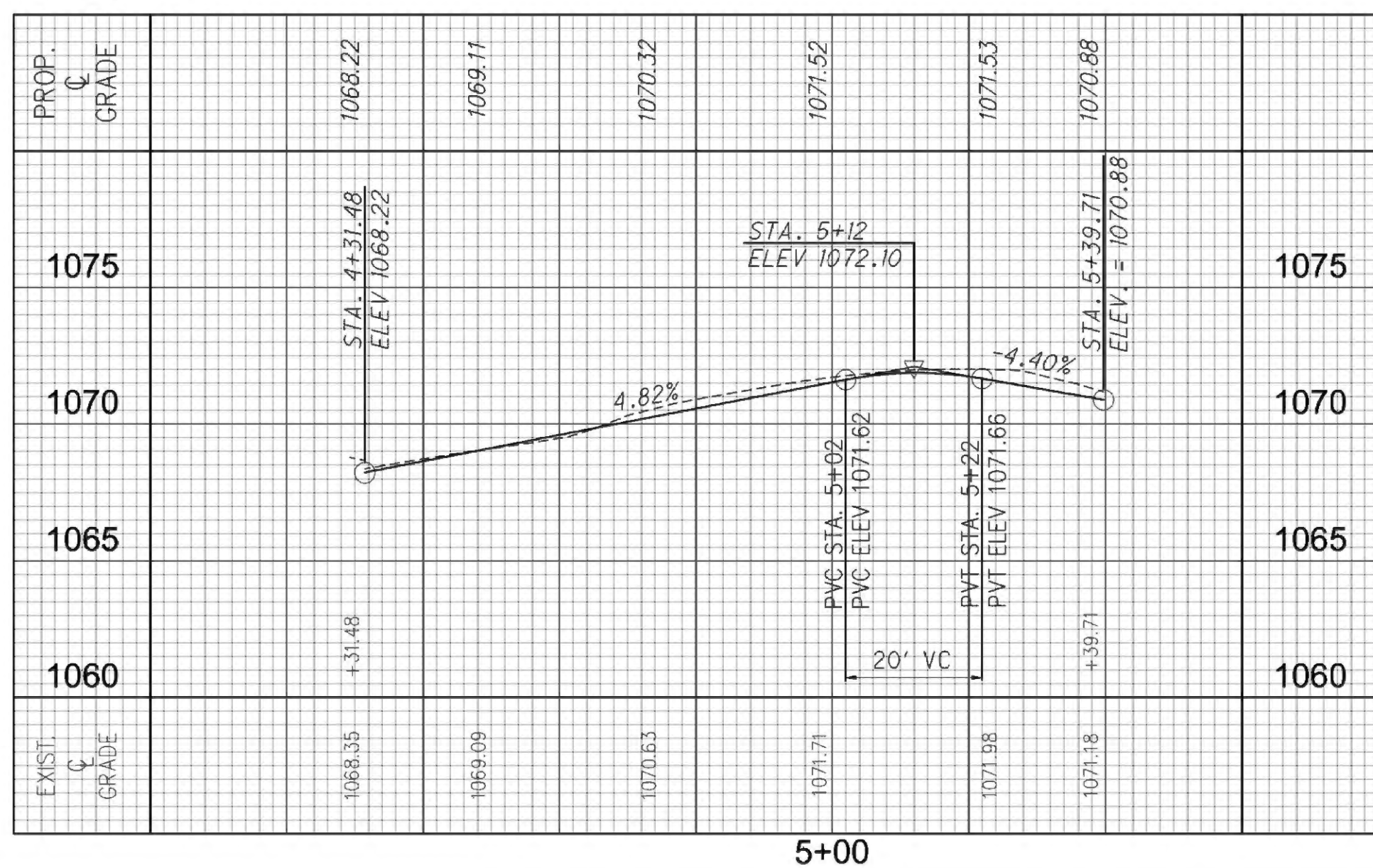
Baseline SW



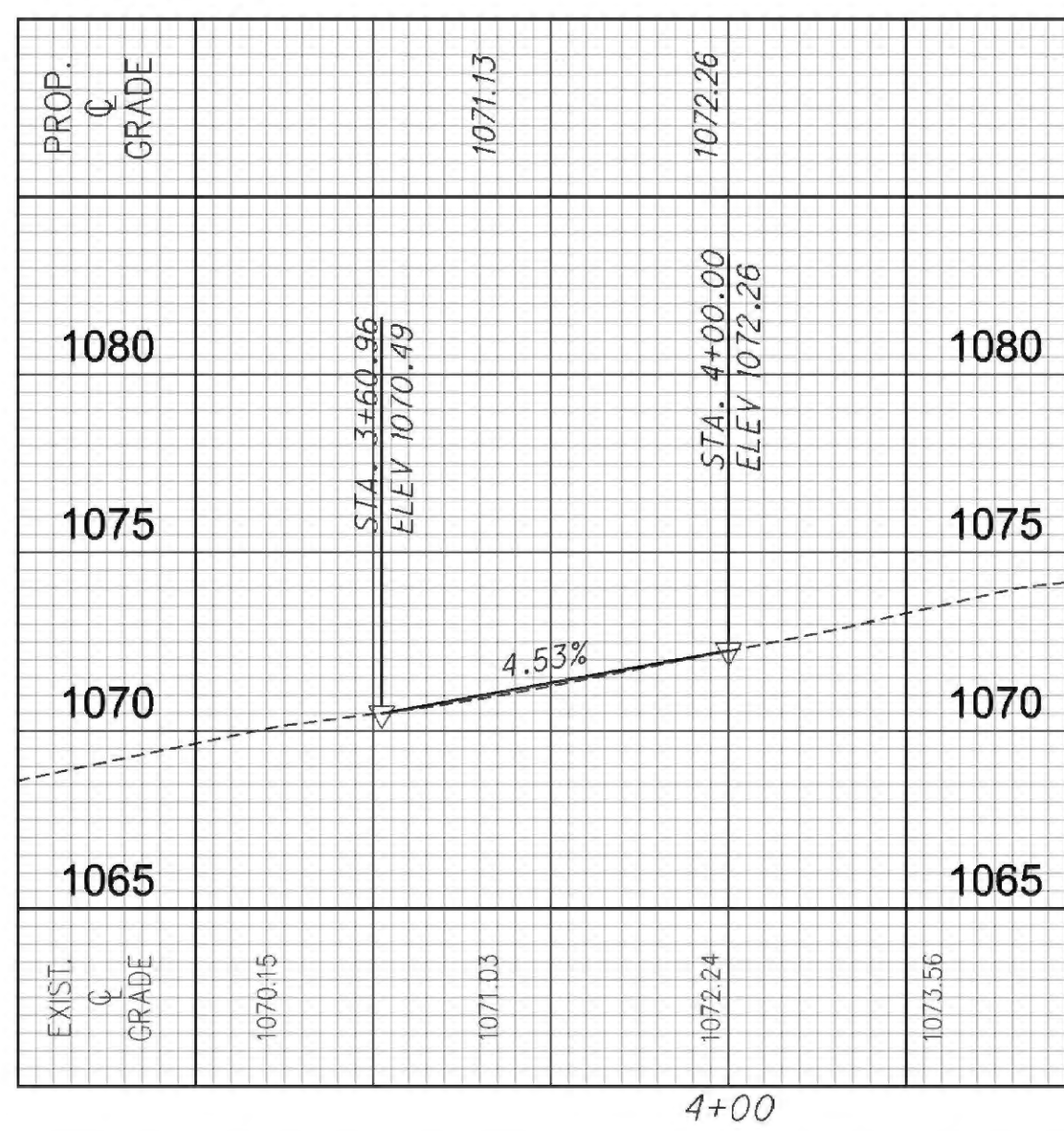
Baseline SW 1



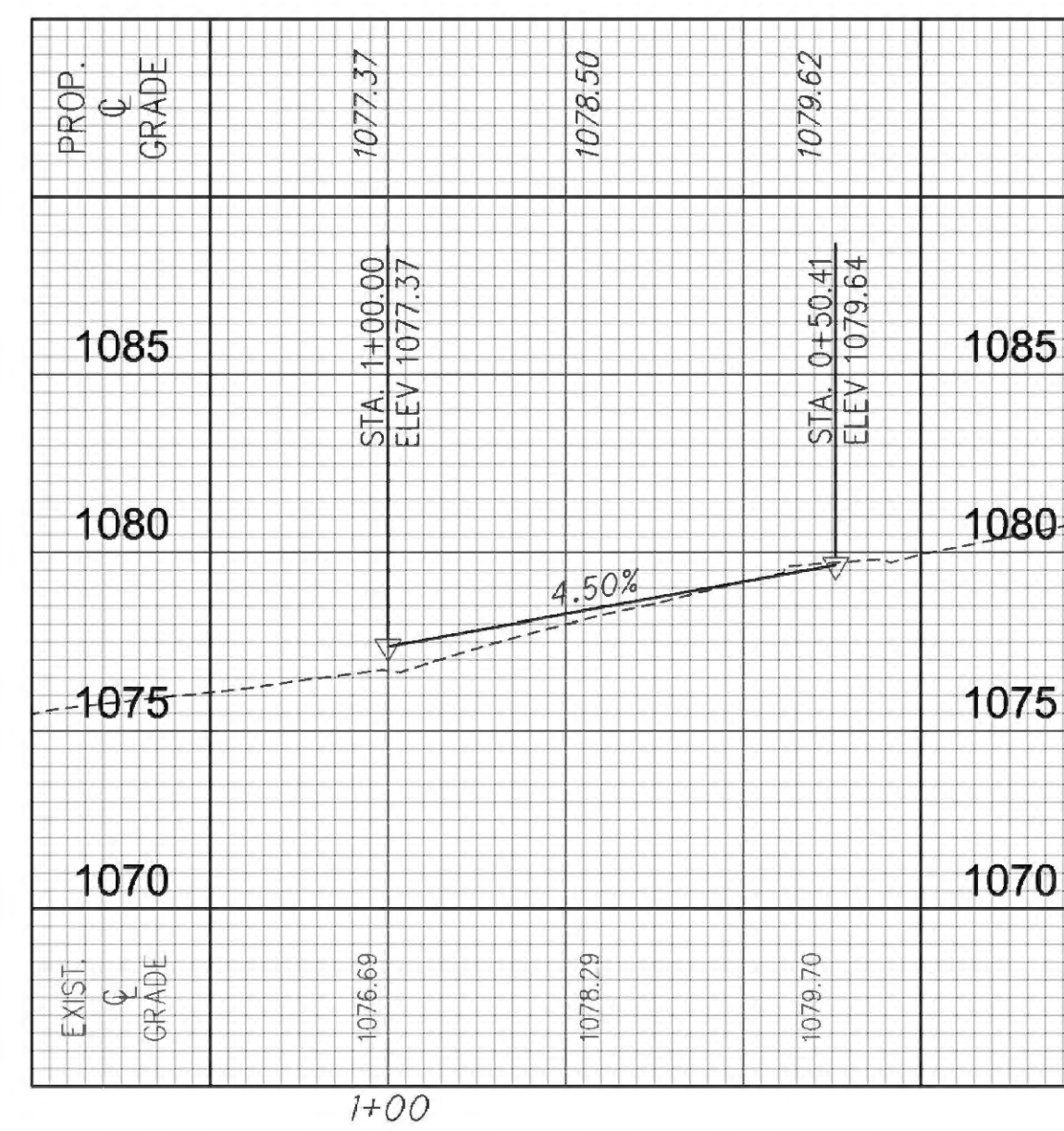
Baseline SE



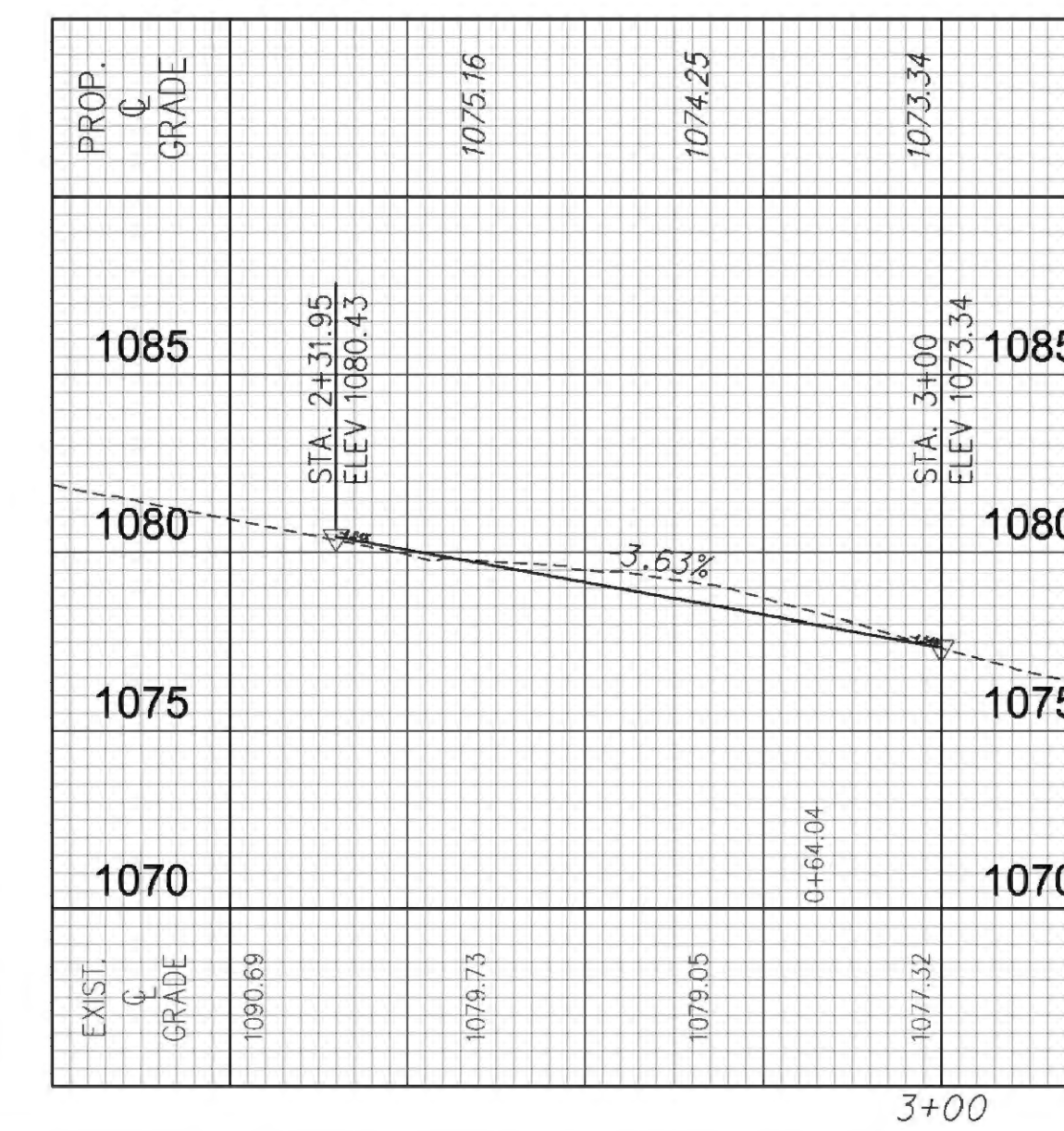
Baseline EL



Baseline WL



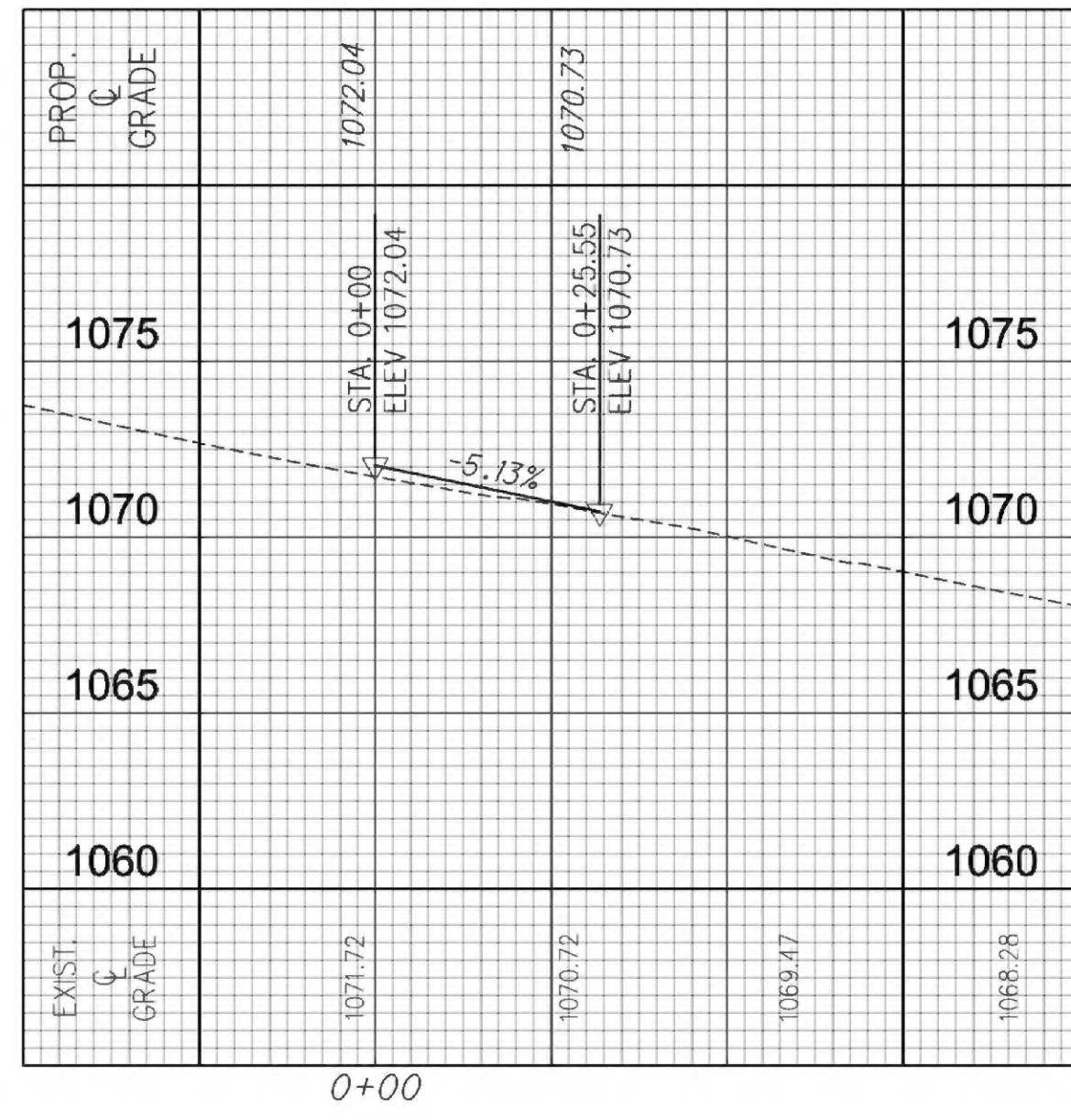
Baseline WR



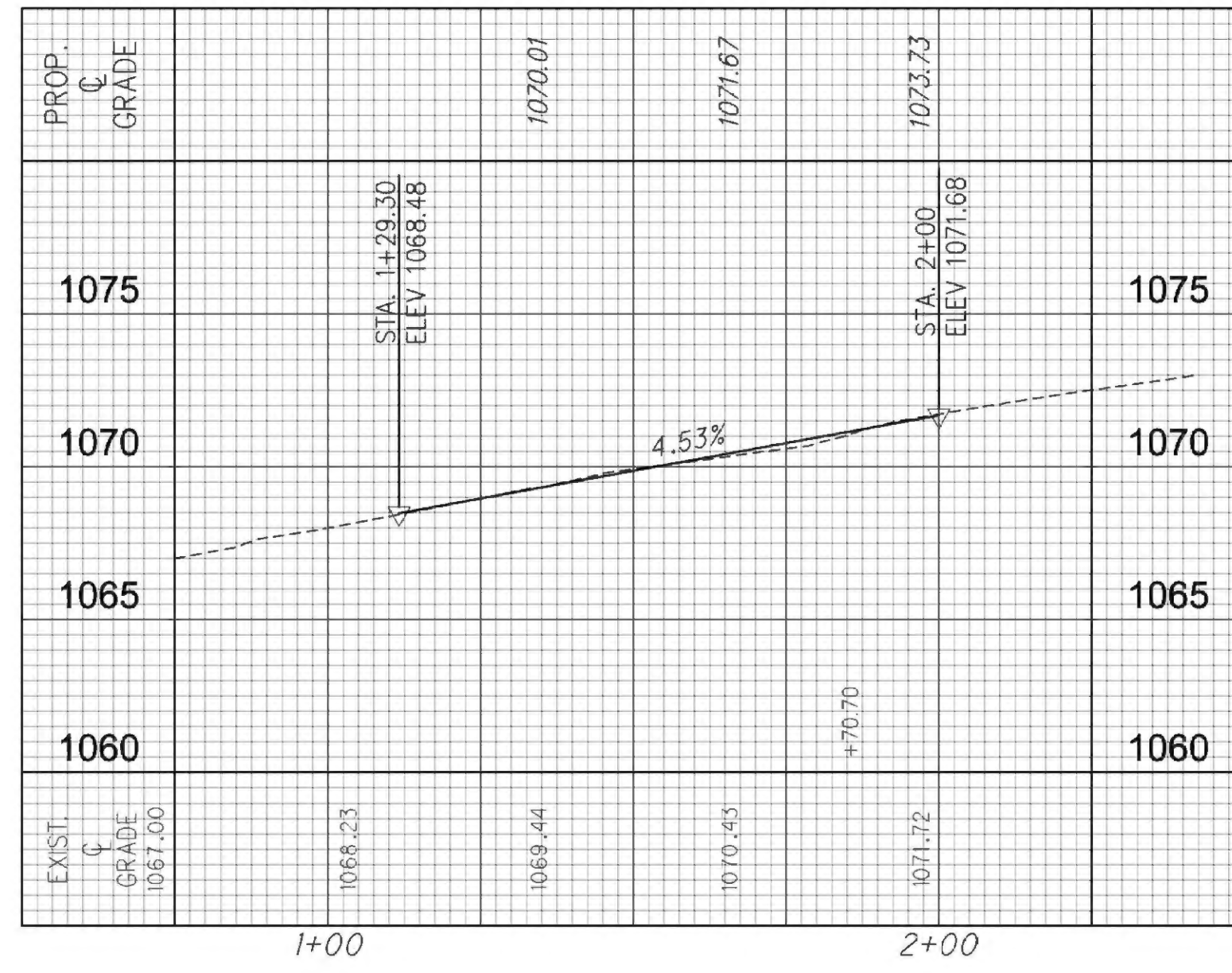
STA Main/Tremont RAB  
 Roundabout and Reference Profiles  
 City of Massillon  
 Stark County, Ohio

LOGG:	
DESIGNER	FPW
REVIEWER / DATE	AP 7/2025
PROJECT ID	22st08 / 120493
SHT NO.	TOTAL
18	49

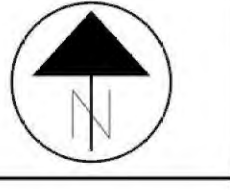
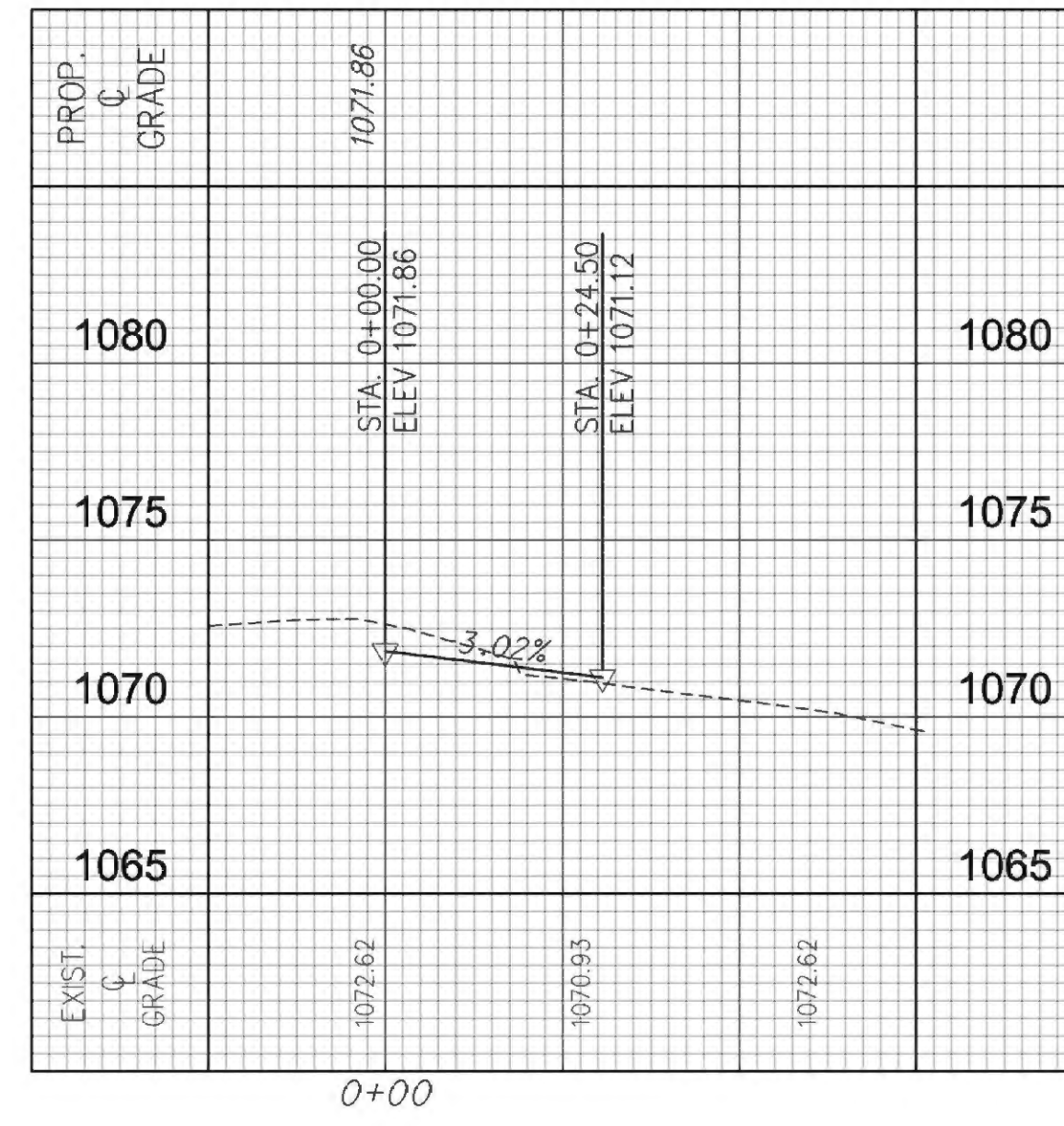
Baseline SL



Baseline SR



Baseline ER



**STA Main/Tremont RAB**  
Roundabout and Reference Profiles  
City of Massillon  
Stark County, Ohio

LOGG:



DESIGNER  
FPW

REVIEWER / DATE  
AP 7/2025

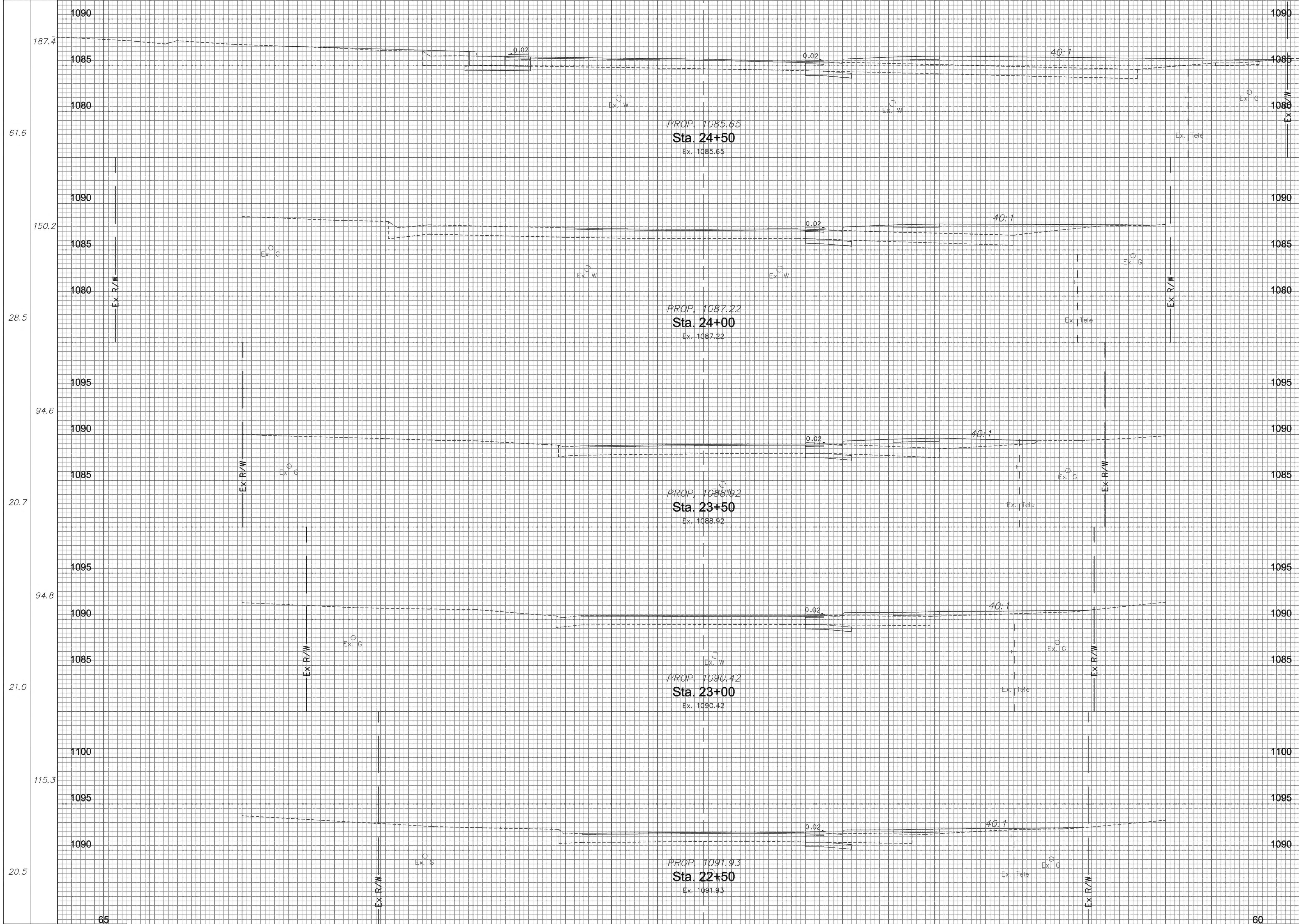
PROJECT ID  
22sT08 / 120493

SHT NO. TOTAL  
19 49



SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1090				
1085			80.1	158.7
1080			23.7	77.8
1090				
1085			29.2	108.8
1080			7.8	39.7
1095				
1090			14.4	58.8
1085			7.7	23.8
1095				
1090			22.3	36.9
1085			16.4	16.0
1100				
1095			28.6	27.2
1090			14.4	13.3
<b>SHEET TOTAL</b>	<b>642.3</b>	<b>65</b>	<b>174.4</b>	<b>390.3</b>

**STA Main/Tremont RAB**  
 Cross Section - Main Ave W Sta. 22+50 to Sta. 24+50  
 City of Massillon  
 Stark County, Ohio

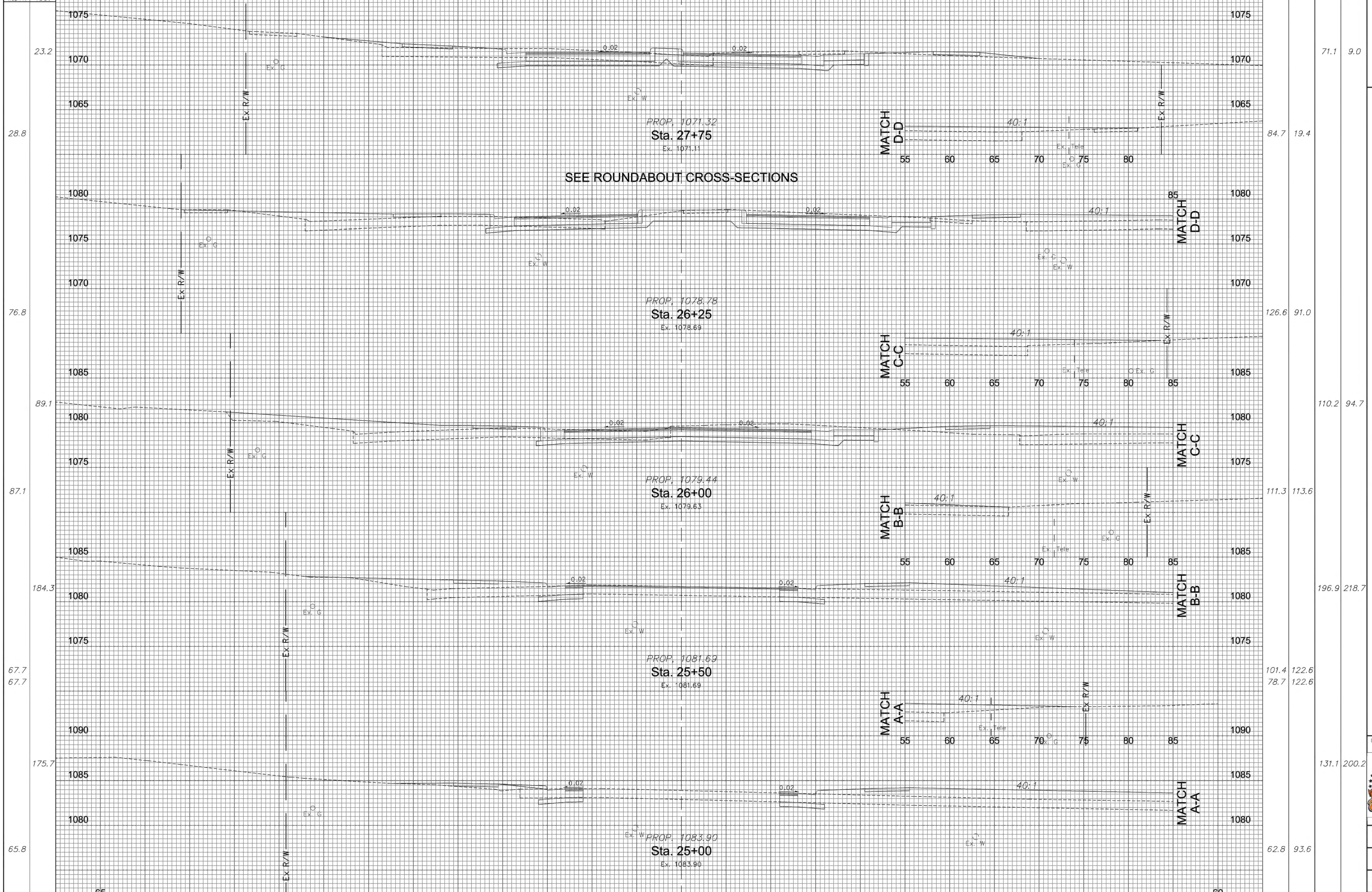


COMPANY  
 DESIGNER  
 REVIEWER / DATE  
 PROJECT ID  
 SHEET

FW  
 AP 7/2025  
 22ST08 / 120493  
 SHEET 21 SHEET 49

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL



**STA Main/Tremont RAB**  
Cross Section - Main Ave W Sta. 25+00 to Sta. 27+00  
City of Massillon  
Stark County, Ohio

472.3	65	SHEET TOTAL		60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	SHEET TOTAL	509.2	522.6
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COMPANY

DESIGNER  
FPW

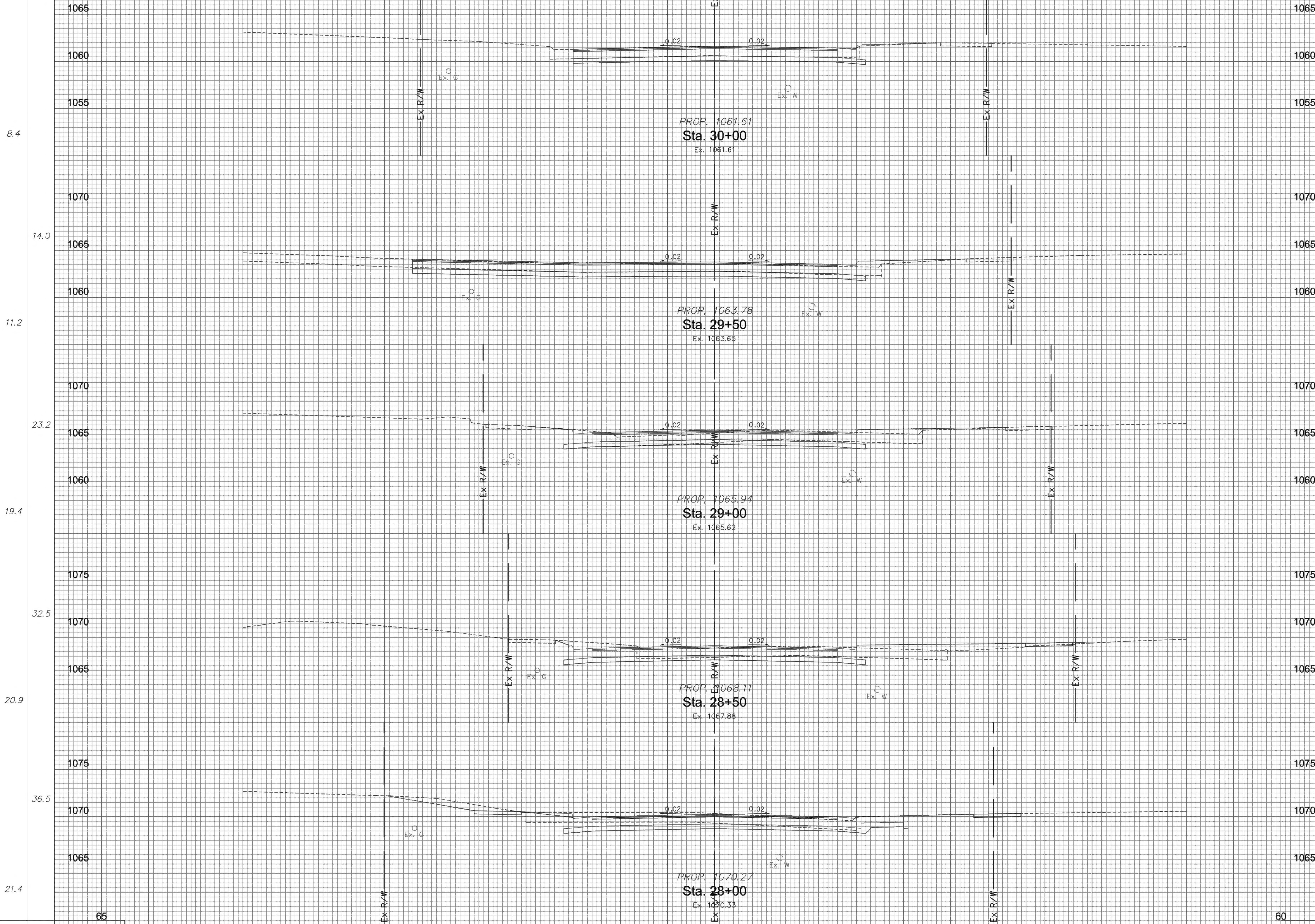
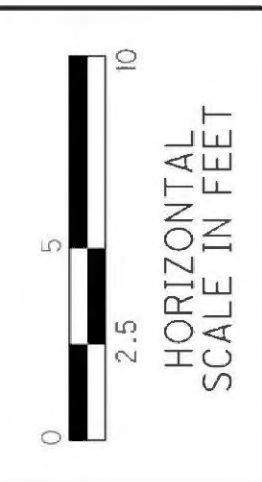
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
22ST08 / 120493

SHEET 22 SHEET 49

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL



ELEVATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1065				
1060				
1055	47.3	1.2		
1070				
1065			55.8	2.7
1060				
1070				
1065	73.3	4.6		
1070				
1065			59.1	6.7
1060				
1070				
1065	54.4	9.9		
1075				
1070			53.8	12.9
1065				
1075				
1065	61.7	18		
1075				
1070			60.4	8.4
1065				
1075				
1065	68.8	0		
60				
<b>SHEET TOTAL</b>		251.0	31.2	
<b>TOTAL</b>		981	981.2	

106.2	SHEET TOTAL
1466.9	TOTAL

**STA Main/Tremont RAB**  
 Cross Section - Main Ave W Sta. 27+50 to Sta. 29+50  
 City of Massillon  
 Stark County, Ohio

COMPANY

DESIGNER  
FW

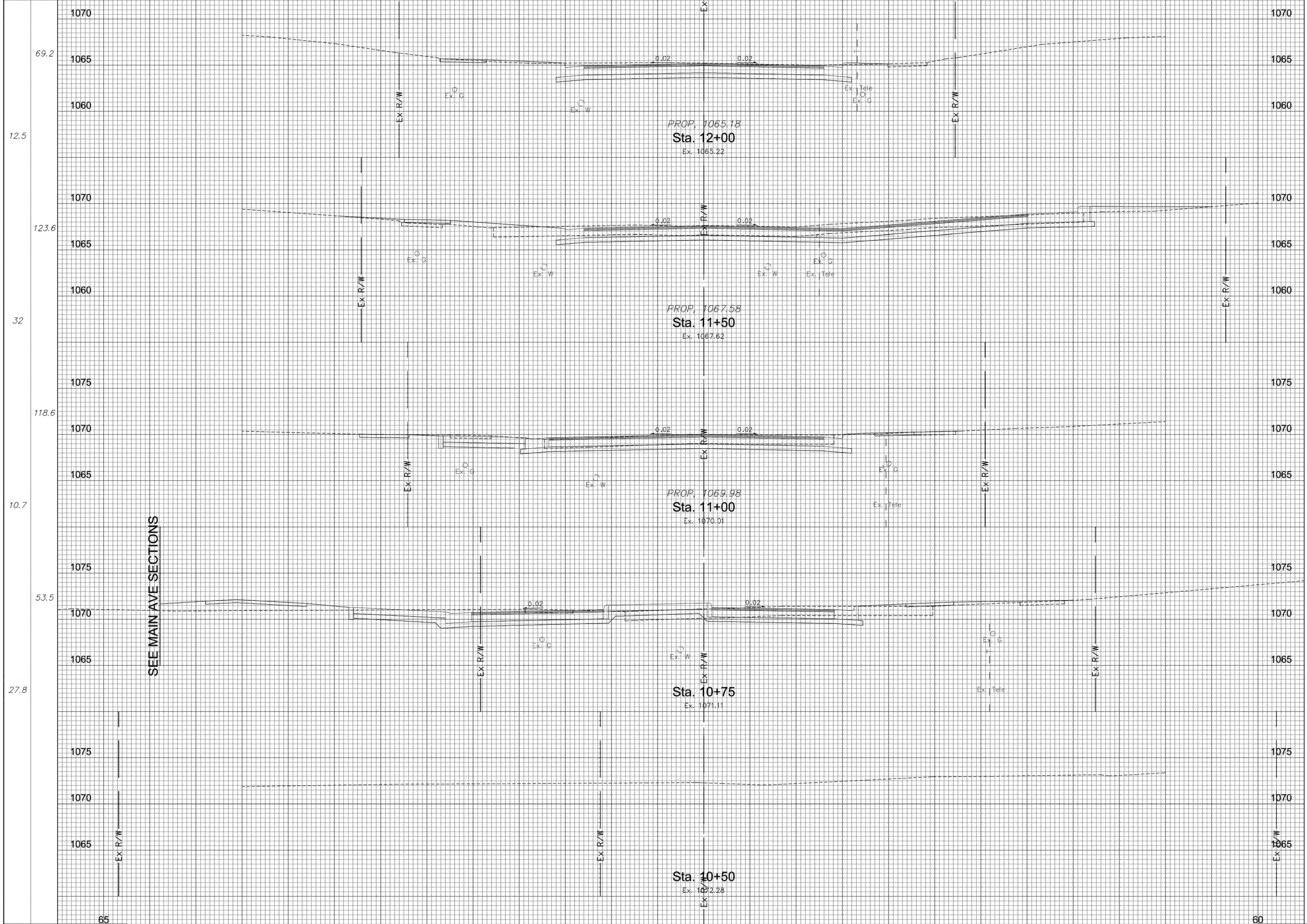
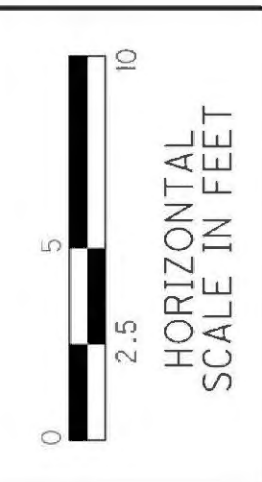
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
22ST08 / 120493

SHEET 23 / SHEET 49

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1070				
1065			95.4	3.8
1060			53.4	1.8
1070				
1065			146.7	19.2
1060			105.0	18.9
1075				
1070			163.7	17.5
1065			71.8	0
1075				
1070			70.6	16.2
1065			80.6	35
1075				
1070				
1065				
SHEET TOTAL			476.3	56.7

**STA Main/Tremont RAB**  
Cross Section - Main Ave W Sta. 10+50 to Sta. 12+00  
City of Massillon  
Stark County, Ohio

COMPANY



DESIGNER  
FW

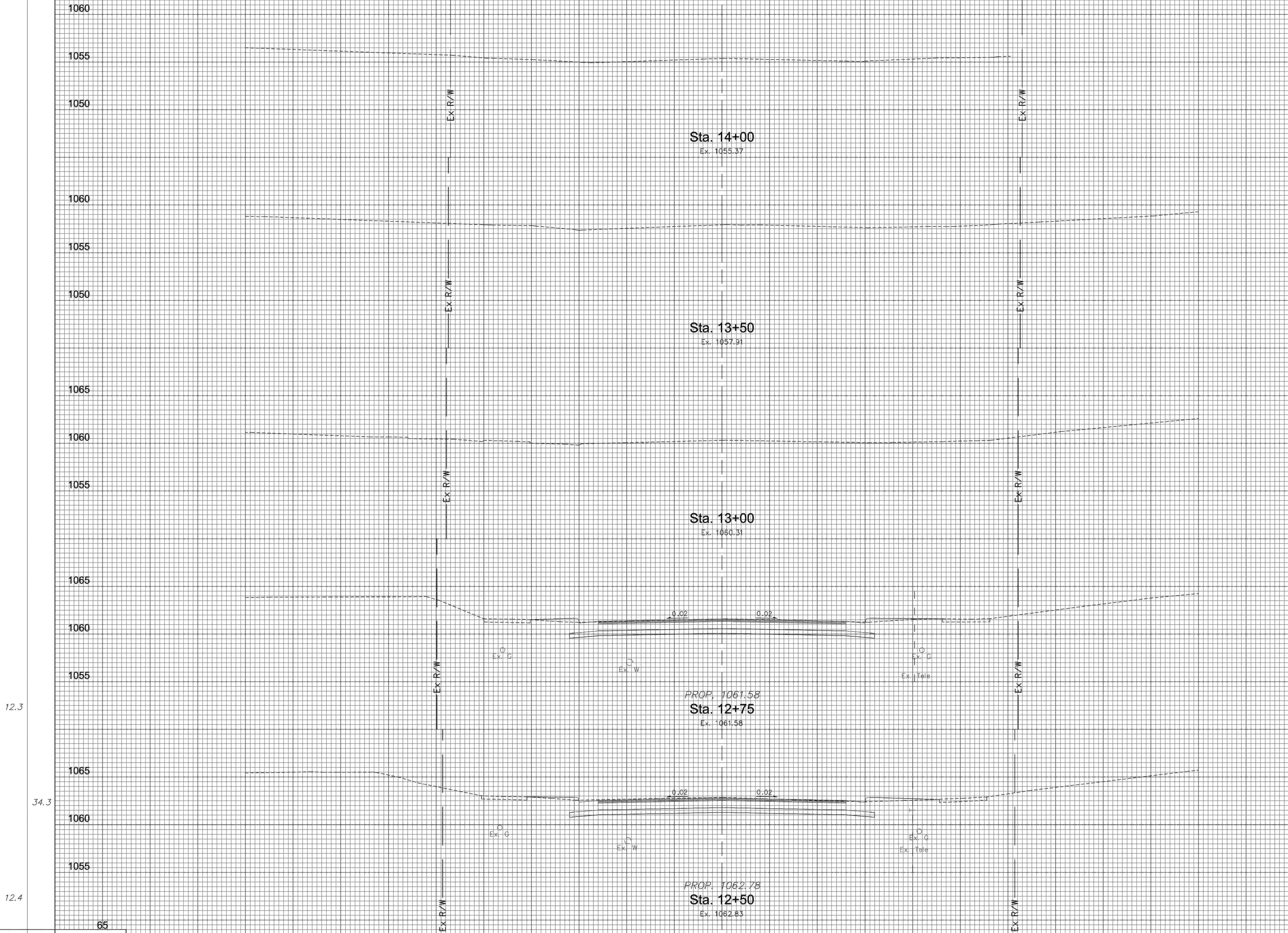
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
22sT08 / 120493

SHEET 24 SHEET 49

SEEDING  
END SO.  
WIDTH YDS.

END AREA  
CUT FILL  
VOLUME  
CUT FILL



12.3  
34.3  
12.4

1060  
1055  
1050  
1060  
1055  
1050  
1065  
1060  
1055  
1065  
1060  
1055  
1065  
1060  
1055  
1065  
1060  
1055

Sta. 14+00  
Ex. 1055.37

Sta. 13+50  
Ex. 1057.91

Sta. 13+00  
Ex. 1060.31

PROP. 1061.58  
Sta. 12+75  
Ex. 1061.58

PROP. 1062.78  
Sta. 12+50  
Ex. 1062.83

Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W

Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W  
Ex R/W

48.4 2.4  
44.8 2.2  
49.6 2.3

34.3	SHEET TOTAL
399.2	TOTAL

SHEET TOTAL	44.8	2.2
TOTAL	611.9	63.3

STA Main/Tremont RAB  
Cross Section - Tremont Ave SW Sta. 12+50 to Sta. 14+00  
City of Massillon  
Stark County, Ohio

COMPANY

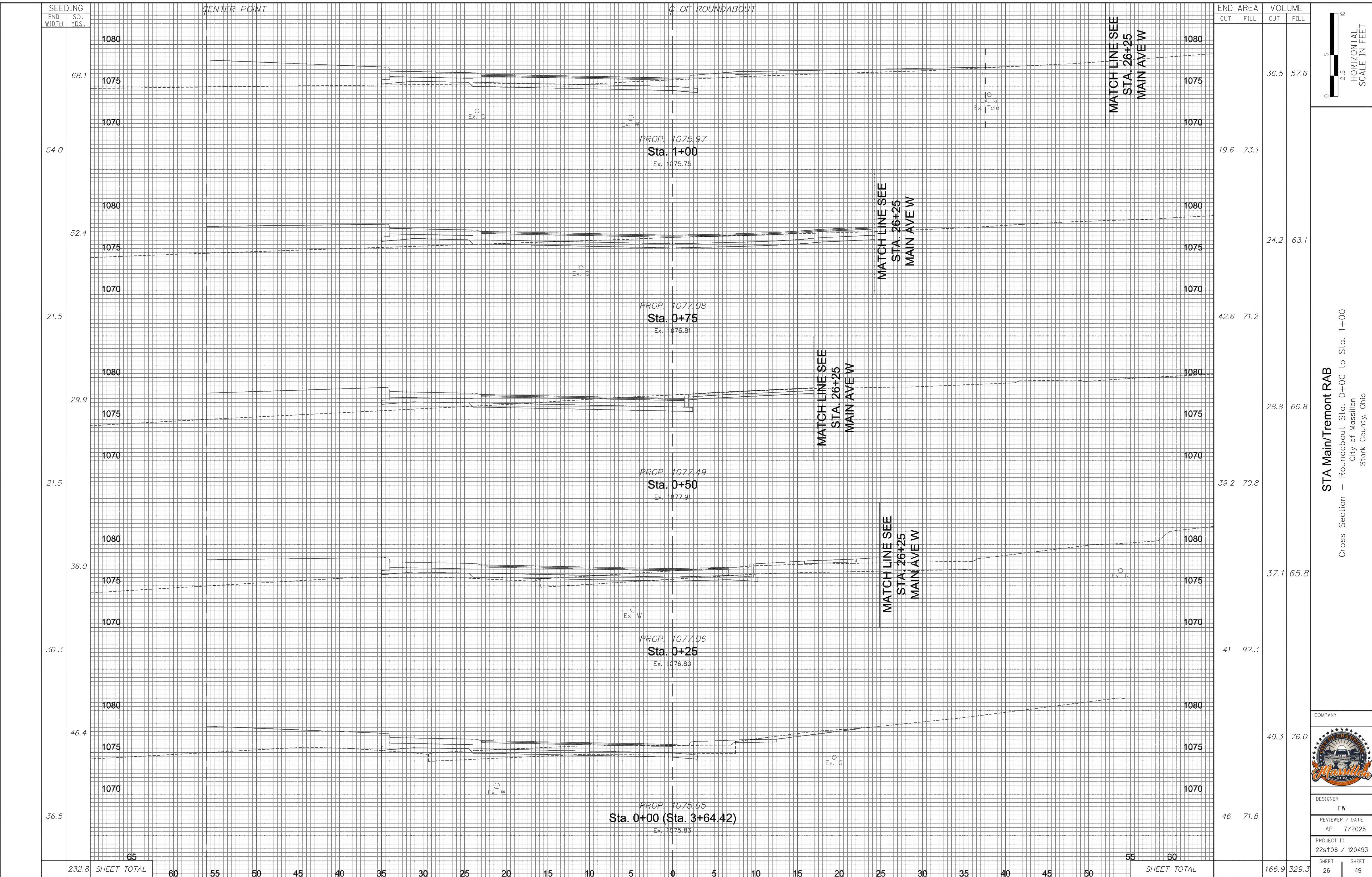


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AP 7/2025

PROJECT ID  
22sT08 / 120493

SHEET 25 SHEET 49



COMPANY  
 DESIGNER  
 REVIEWER / DATE  
 PROJECT ID  
 SHEET / SHEET

SEEDING  
END SO.  
WIDTH YDS.

30.7  
22.1  
30.6  
22.0  
42.1  
38.6  
57.6  
44.4  
61.5  
44.1

CENTER POINT

Q OF ROUNDABOUT

MATCH LINE SEE  
STA. 10+75  
TREMONT AVE NW

MATCH LINE SEE  
STA. 10+75  
TREMONT AVE NW

MATCH LINE SEE  
STA. 10+75  
TREMONT AVE NW

PROP. 1071.62  
Sta. 2+25  
Ex. 1071.82

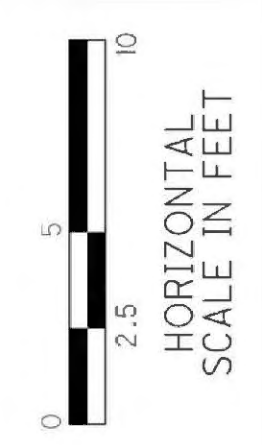
PROP. 1071.90  
Sta. 2+00  
Ex. 1071.43

PROP. 1072.55  
Sta. 1+75  
Ex. 1072.58

PROP. 1073.57  
Sta. 1+50  
Ex. 1073.61

PROP. 1074.77  
Sta. 1+25  
Ex. 1074.85

END AREA	VOLUME	
	CUT	FILL
1075		
1070	103.1	27.7
1065		
99.7	30.7	
1075		
1070	74.5	30.8
1065		
61.3	35.8	
1075		
1070	55.2	40
1065		
57.9	50.6	
1080		
1075	48.2	51.8
1070		
46.2	61.2	
1080		
1075	36.5	57.6
1070		
32.6	63.1	



**STA Main/Tremont RAB**  
Cross Section - Roundabout Sta. 1+25 to Sta. 2+25  
City of Massillon  
Stark County, Ohio



COMPANY  
DESIGNER  
FW  
REVIEWER / DATE  
AP 7/2025  
PROJECT ID  
22sT08 / 120493

SHEET 27 SHEET 49

222.5 SHEET TOTAL

55 60 SHEET TOTAL

314.5 207.9

65

60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50

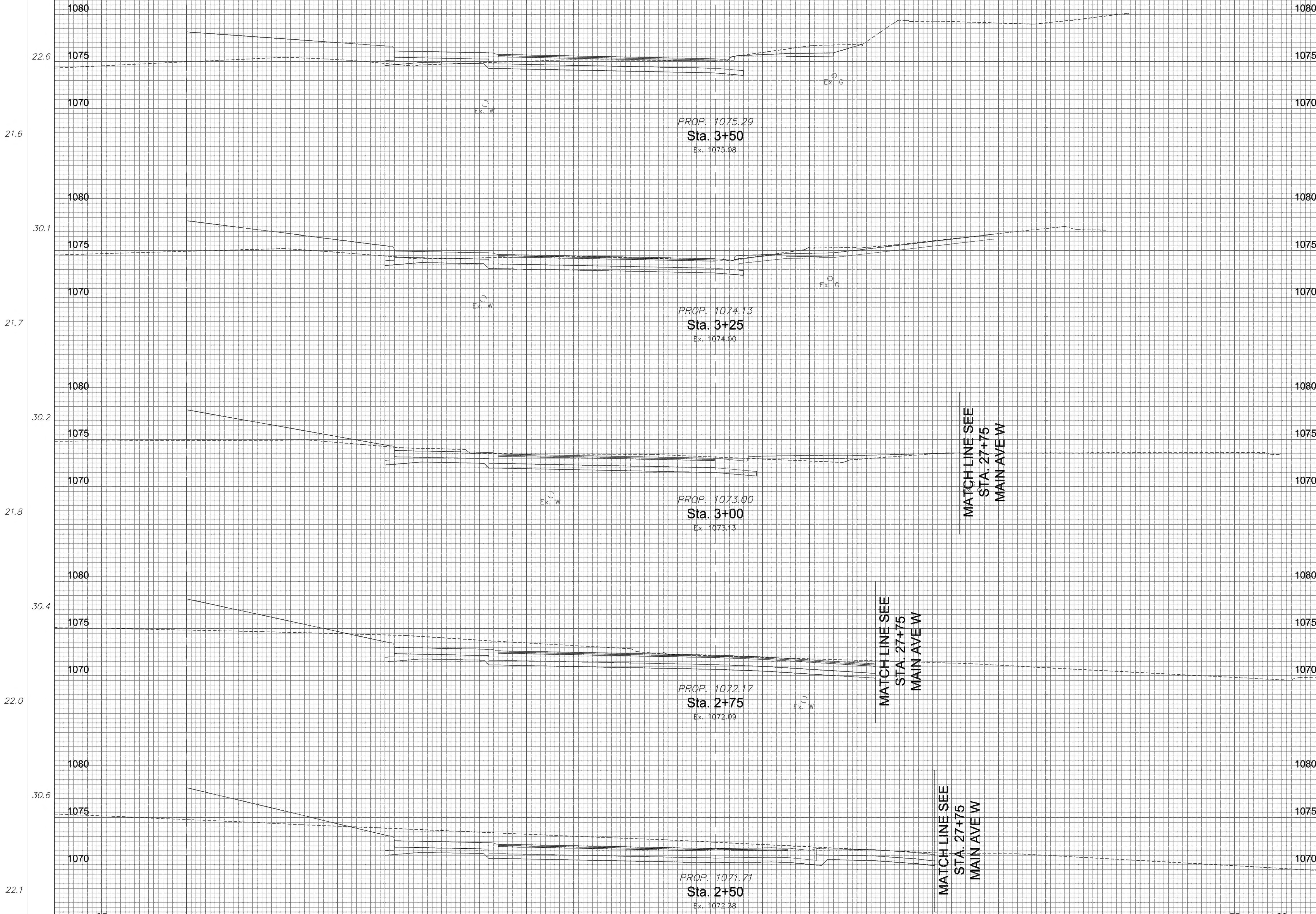
SEEDING  
END SO.  
WIDTH YDS.

CENTER POINT

Q OF ROUNDABOUT

END AREA  
CUT FILL

VOLUME  
CUT FILL



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1080	46	71.8		
1075			22.7	31.7
1070				
1080	38.9	46.9		
1075			46.7	40.3
1070				
1080	61.9	40		
1075			58.2	35.7
1070				
1080	63.8	37.2		
1075			76.9	30.3
1070				
1080	102.3	28.3		
1075			104.3	26.5
1070				
1080	123	29		

**STA Main/Tremont RAB**  
Cross Section - Roundabout Sta. 2+50 to Sta. 0+00  
City of Massillon  
Stark County, Ohio

143.9	SHEET TOTAL
599.2	TOTAL

55	60	SHEET TOTAL	308.8	164.5
		TOTAL	790.2	701.7

COMPANY

DESIGNER  
FW

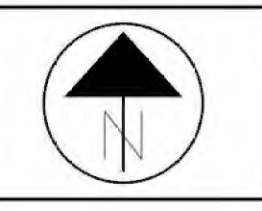
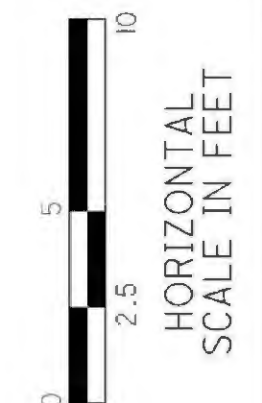
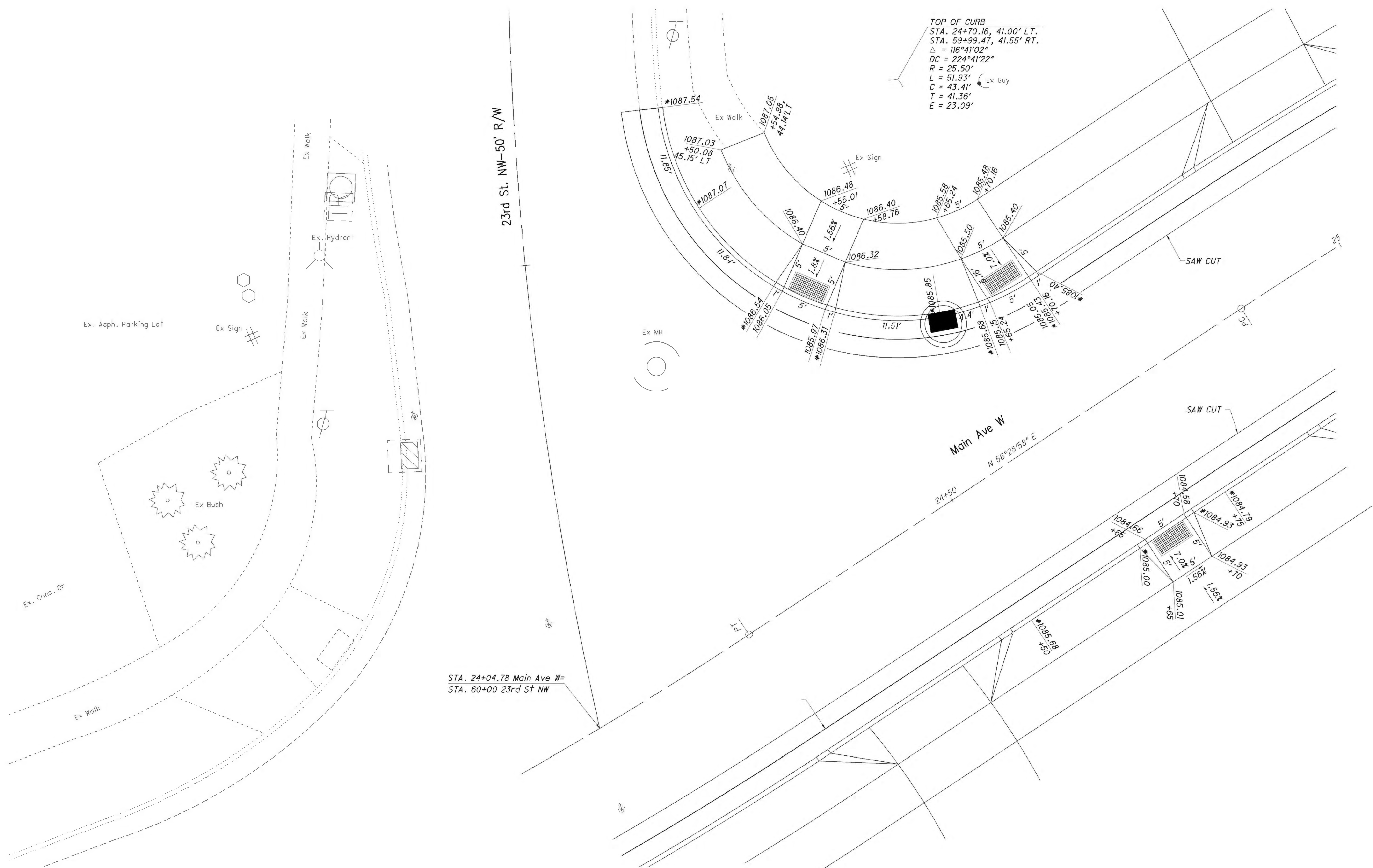
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
22sT08 / 120493

SHEET 28 SHEET 49

\* - ELEVATION AT TOP OF CURB

TOP OF CURB  
 STA. 24+70.16, 41.00' LT.  
 STA. 59+99.47, 41.55' RT.  
 $\Delta = 116^{\circ}41'02''$   
 $DC = 224^{\circ}41'22''$   
 $R = 25.50'$   
 $L = 51.93'$   
 $C = 43.41'$   
 $T = 41.36'$   
 $E = 23.09'$



**STA Main/Tremont RAB**  
 Main Ave W - 23rd St NW Intersection Detail  
 City of Massillon  
 Stark County, Ohio

LOGG:



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REVIEWER / DATE  
 AP 7/2025

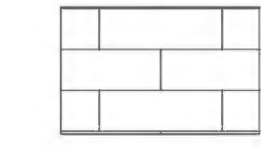
PROJECT ID  
 00s108/120493

SHT NO. TOTAL  
 29 49

STA. 26+55.41,  
25.50' RT.

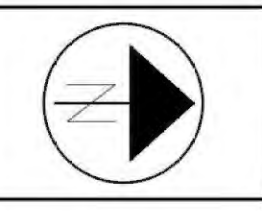
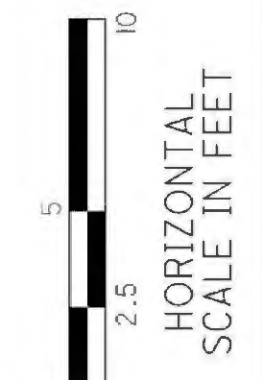
STA. 25+70.03, 80.48  
15.5' RT.

LEGEND:



ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS CCMS (DECORATIVE), (TRUCK APRON)  
(STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)

TOP OF CURB  
STA. 25+95.60, 115.0' LT.  
 $\Delta = 40^\circ 36' 54''$   
DC = 57° 35' 01"  
R = 99.50'  
T = 36.82'  
L = 70.53'  
E = 6.59'  
PC STA. 25+95.59, 15.5' LT  
PT STA. 26+57.32, 42.9' LT



TOP OF CURB  
STA. 25+77.92, 115.0' RT.  
 $\Delta = 49^\circ 24' 22''$   
DC = 57° 35' 01"  
R = 99.50'  
T = 45.77'  
L = 85.80'  
E = 10.02'  
PC STA. 25+77.92, 15.5' RT.  
PT STA. 26+58.76, 44.29' RT.

TRUCK LANE  
PI = N: 409578.7465  
PI = E: 2231220.3960  
 $\Delta = 21^\circ 50' 19''$   
DC = 27° 11' 47"  
R = 210.68'  
T = 40.64'  
L = 80.30'  
E = 3.89'

BACK OF SIDEWALK  
PI = STA 26+12.90, 22.01' RT  
 $\Delta = 21^\circ 50' 19''$   
DC = 27° 11' 47"  
R = 210.68'  
T = 40.64'  
L = 80.30'  
E = 3.89'

STA. 26+56.75,  
55.70' RT.

STA. 26+50.00, 76.63  
37.03' RT.

Main Ave W-60' R/W

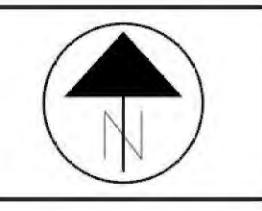
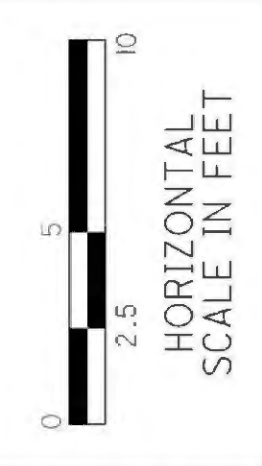
STA Main/Tremont RAB

West Leg Main Ave W and Roundabout  
City of Massillon  
Stark County, Ohio



DESIGNER	AP
REVIEWER / DATE	FW 3/6/2025
PROJECT ID	22ST08 / 120493
SHEET	SHEET
30	49

C1 TOP OF CURB  
 STA. 27+94.48, 75.0' LT.  
 $\Delta = 70^\circ 05' 50''$   
 $DC = 96^\circ 17' 44''$   
 $R = 59.50'$   
 $T = 29.06'$   
 $L = 54.07'$   
 $E = 6.72'$



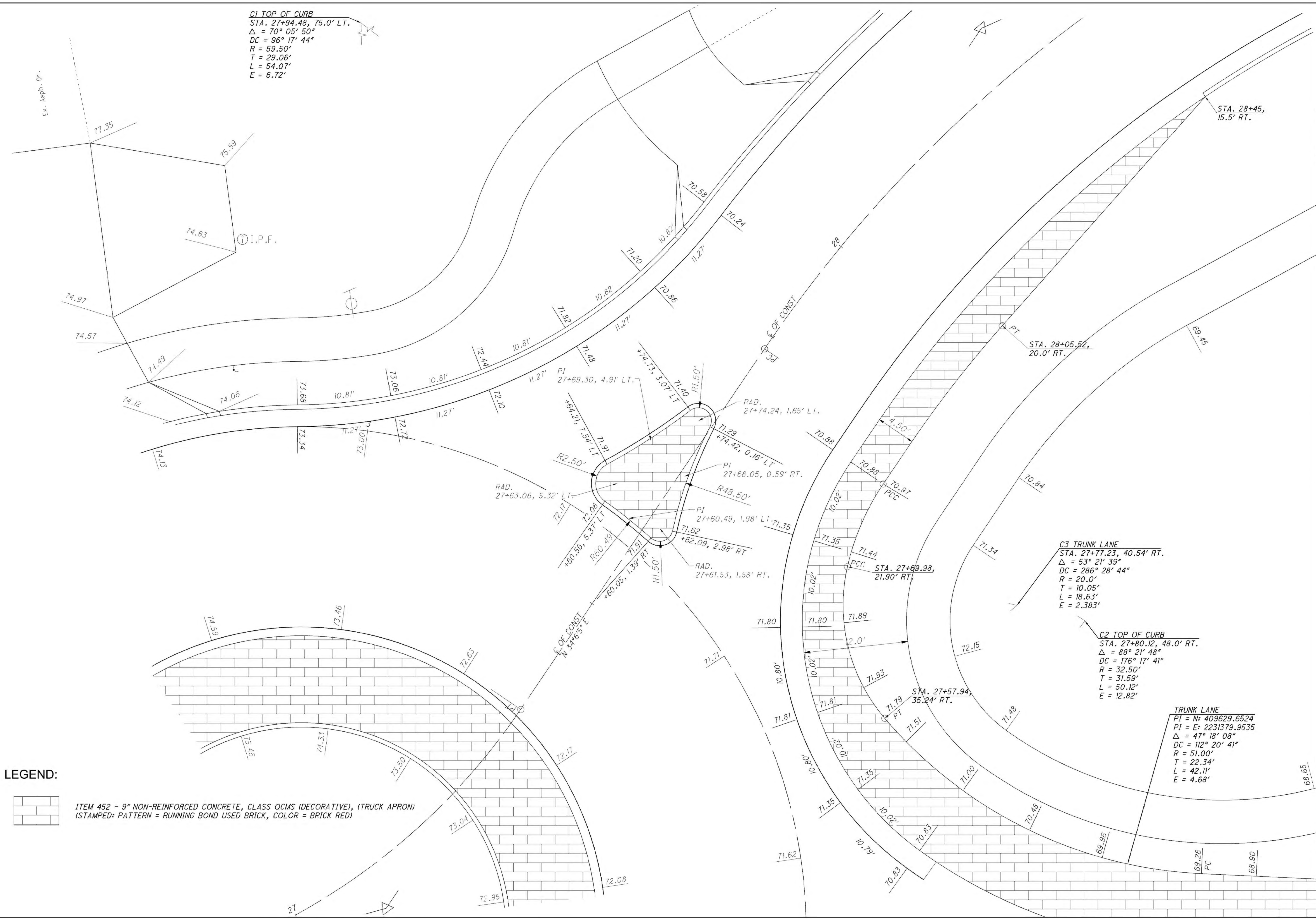
**STA Main/Tremont RAB**  
 East Leg Main Ave w  
 City of Massillon  
 Stark County, Ohio



DESIGNER	AP
REVIEWER / DATE	FW 3/6/2025
PROJECT ID	22ST08 / 120493
SHEET	SHEET
31	49

**LEGEND:**

ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS OCMS (DECORATIVE), (TRUCK APRON)  
 (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)

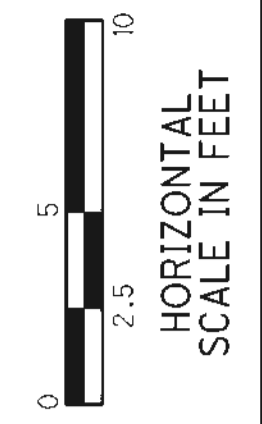
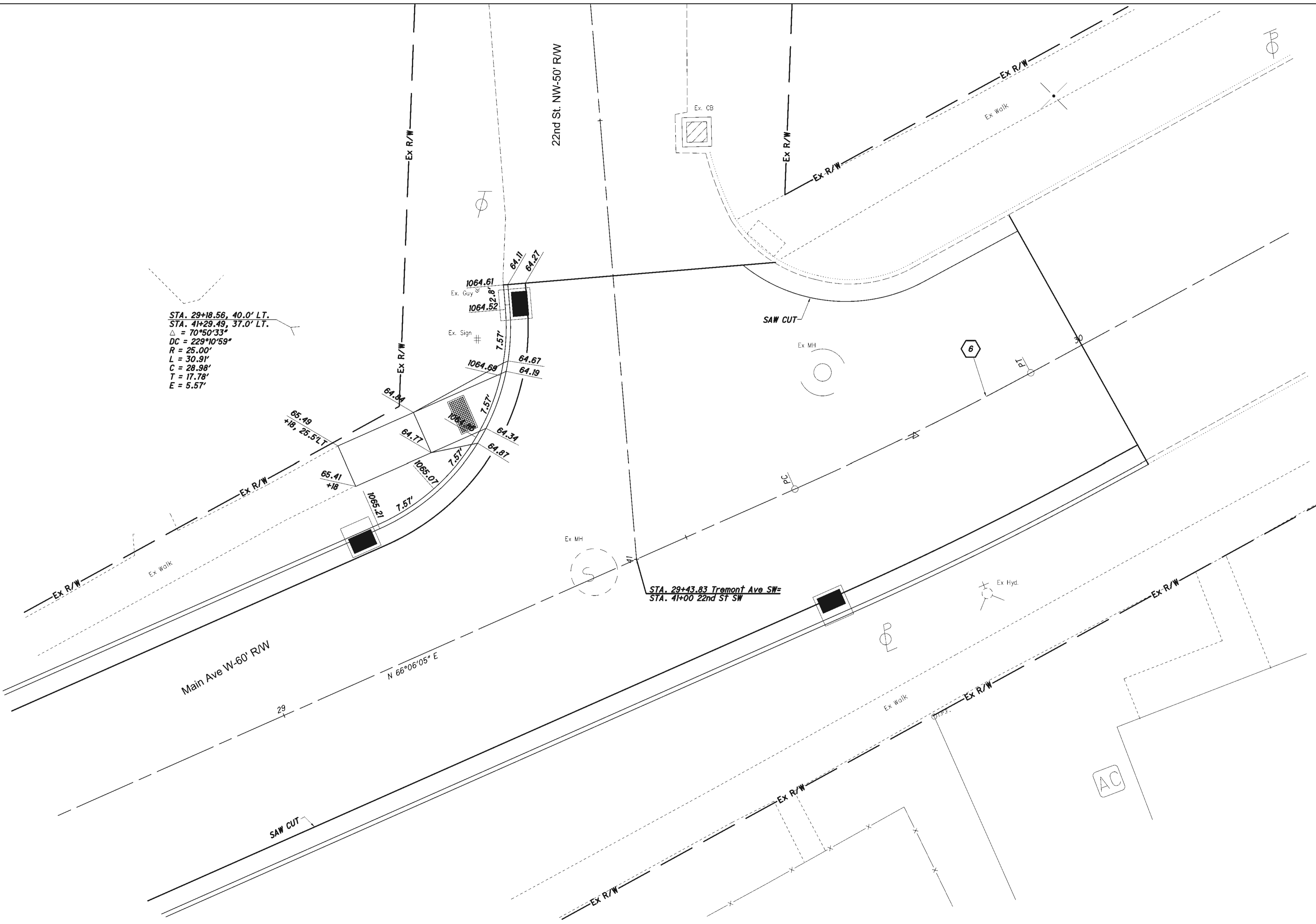


C3 TRUNK LANE  
 STA. 27+77.23, 40.54' RT.  
 $\Delta = 53^\circ 21' 39''$   
 $DC = 286^\circ 28' 44''$   
 $R = 20.0'$   
 $T = 10.05'$   
 $L = 18.63'$   
 $E = 2.383'$

C2 TOP OF CURB  
 STA. 27+80.12, 48.0' RT.  
 $\Delta = 88^\circ 21' 48''$   
 $DC = 176^\circ 17' 41''$   
 $R = 32.50'$   
 $T = 31.59'$   
 $L = 50.12'$   
 $E = 12.82'$

TRUNK LANE  
 $PI = N: 409629.6524$   
 $PI = E: 2231379.9535$   
 $\Delta = 47^\circ 18' 08''$   
 $DC = 112^\circ 20' 41''$   
 $R = 51.00'$   
 $T = 22.34'$   
 $L = 42.11'$   
 $E = 4.68'$

STA. 29+18.56, 40.0' LT.  
 STA. 41+29.49, 37.0' LT.  
 $\Delta = 70^{\circ}50'33''$   
 $DC = 229^{\circ}10'59''$   
 $R = 25.00'$   
 $L = 30.91'$   
 $C = 28.98'$   
 $T = 17.78'$   
 $E = 5.57'$



**STA Main/Tremont RAB**  
 Main Ave W - 2nd St NW - Intersection Detail  
 City of Massillon  
 Stark County, Ohio

LOGO:



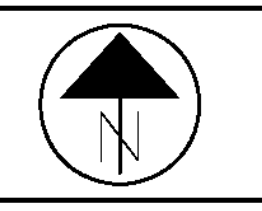
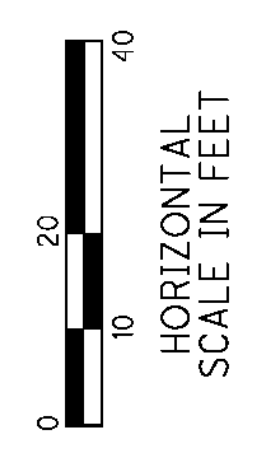
DESIGNER  
FPW

REVIEWER / DATE  
AP 7/2025

PROJECT ID  
00s108/120493

SHT NO. TOTAL  
32 49





**STA Main/Tremont RAB**  
 Main Ave W - Plan and Profile Sta. 24+00 to Sta. 28+00  
 City of Massillon  
 Stark County, Ohio

LOGO:

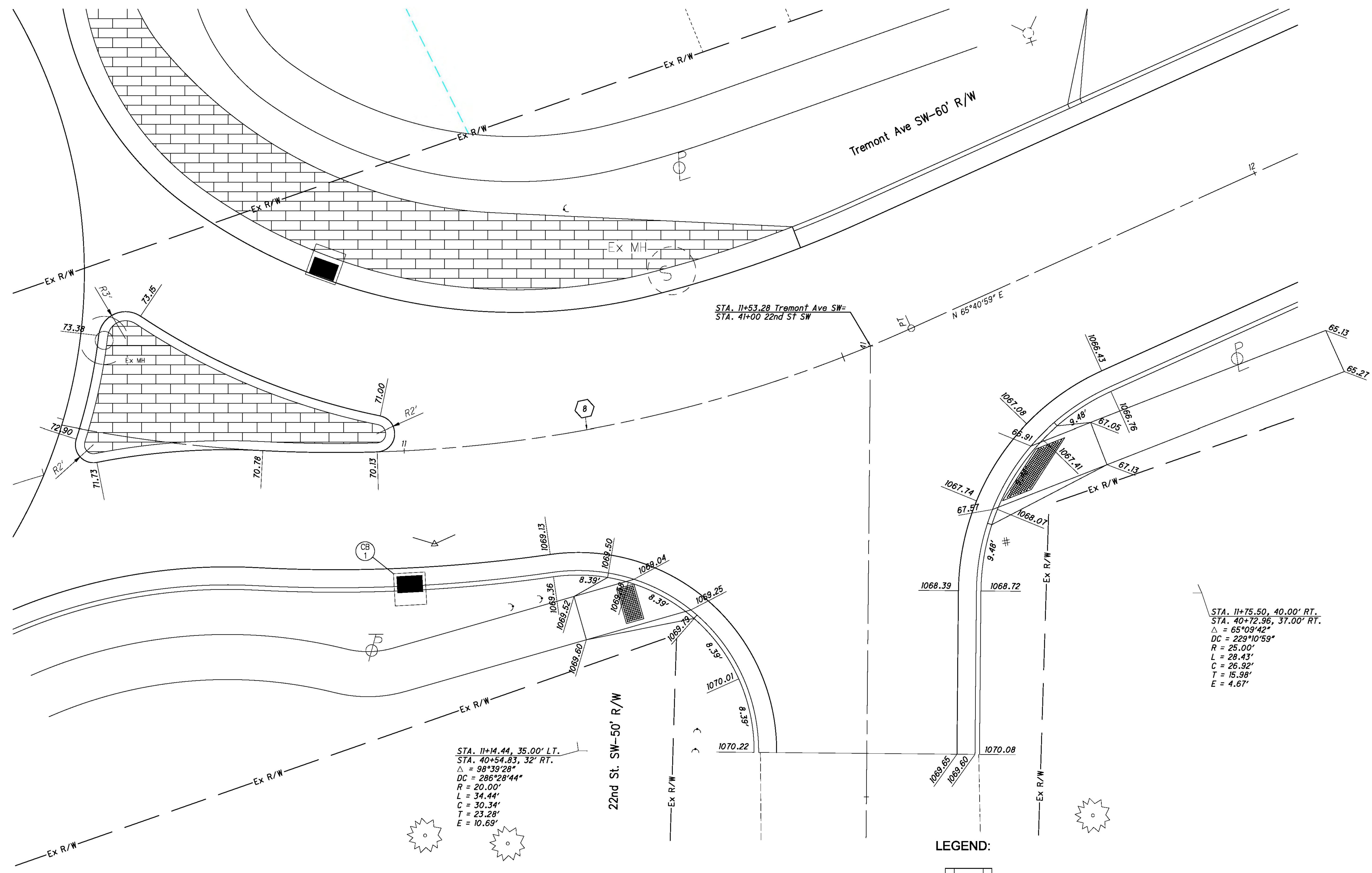


DESIGNER  
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 AP 7/2025

PROJECT ID  
 22sT08 / 120493

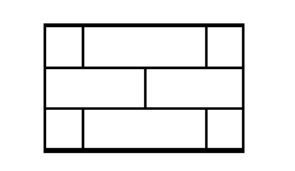
SHT NO. TOTAL  
 34 49



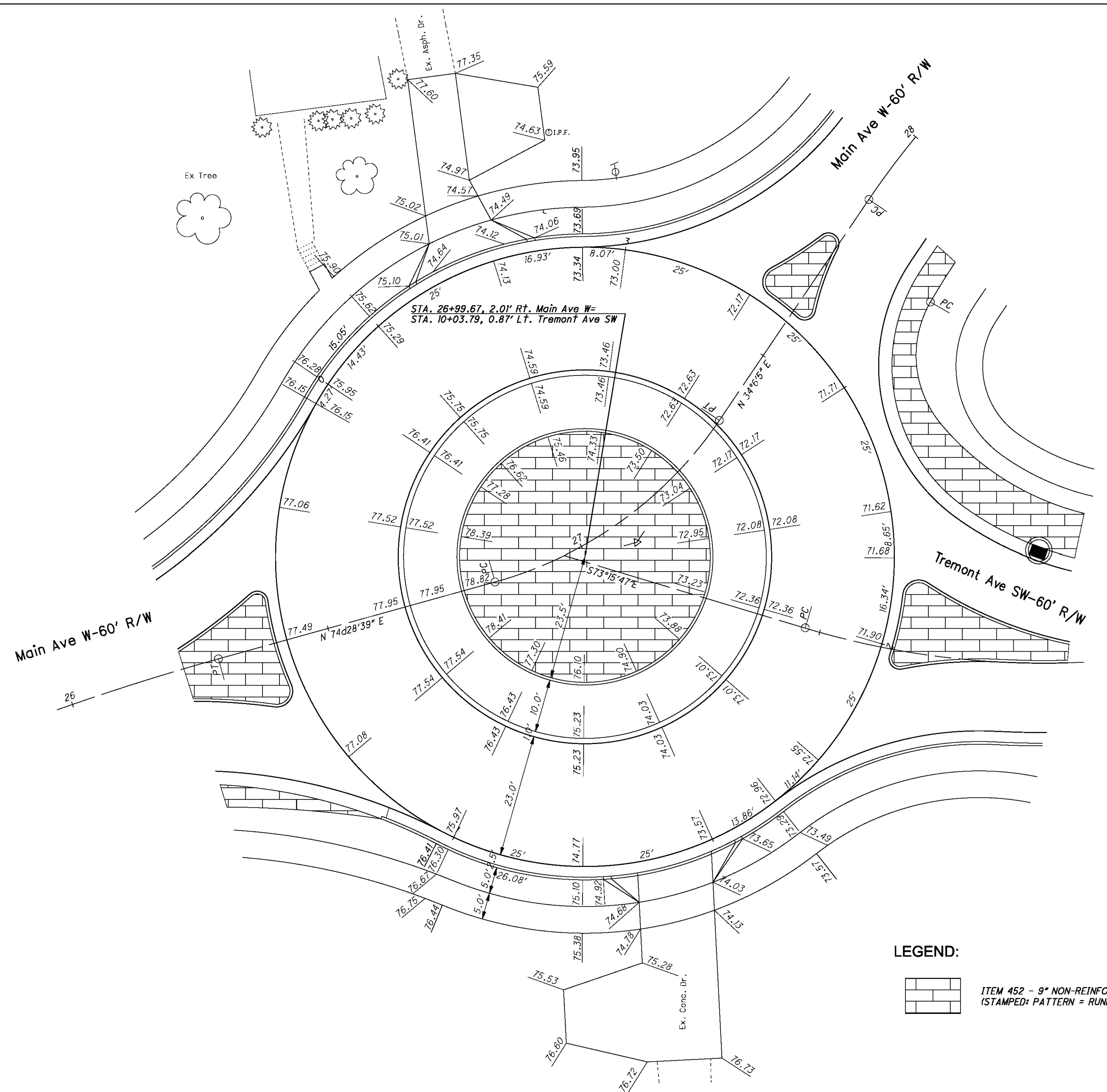
STA. 11+14.44, 35.00' LT.  
 STA. 40+54.83, 32' RT.  
 $\Delta = 98^{\circ}39'28''$   
 DC = 286'28'44"  
 R = 20.00'  
 L = 34.44'  
 C = 30.34'  
 T = 23.28'  
 E = 10.69'

STA. 11+75.50, 40.00' RT.  
 STA. 40+72.96, 37.00' RT.  
 $\Delta = 65^{\circ}09'42''$   
 DC = 229'10'59"  
 R = 25.00'  
 L = 28.43'  
 C = 26.92'  
 T = 15.98'  
 E = 4.67'

LEGEND:

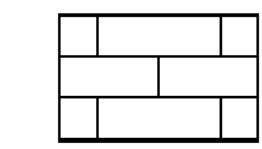


ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS OCMS (DECORATIVE), (TRUCK APRON)  
 (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)

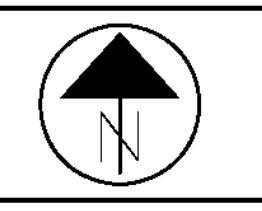


STA. 26+99.67, 2.01' Rt. Main Ave W=  
 STA. 10+03.79, 0.87' Lt. Tremont Ave SW

**LEGEND:**



ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE), (TRUCK APRON)  
 (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)



**STA Main/Tremont RAB**  
 Roundabout Detail  
 City of Massillon  
 Stark County, Ohio

LOGO:

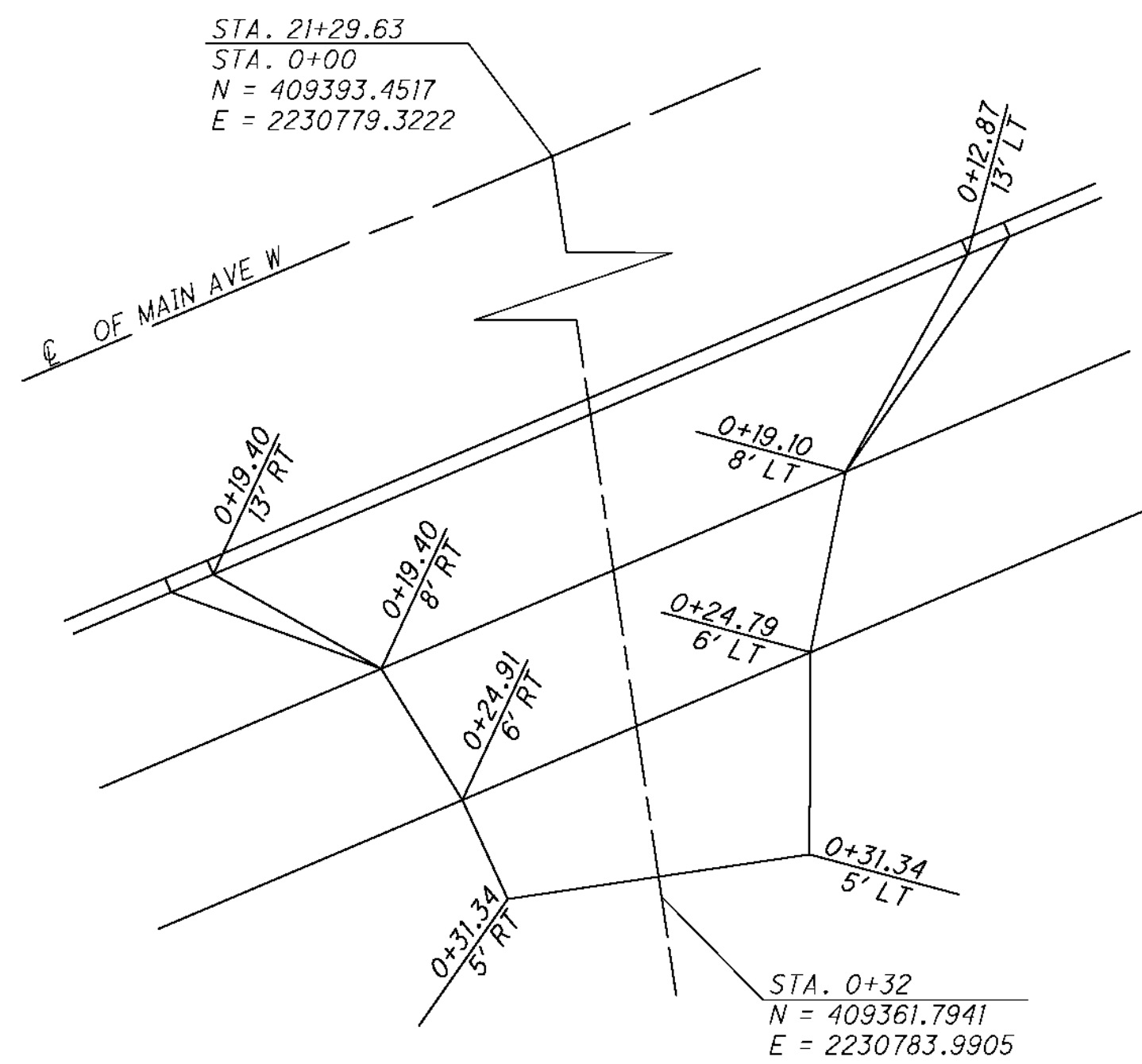


DESIGNER  
 FPW

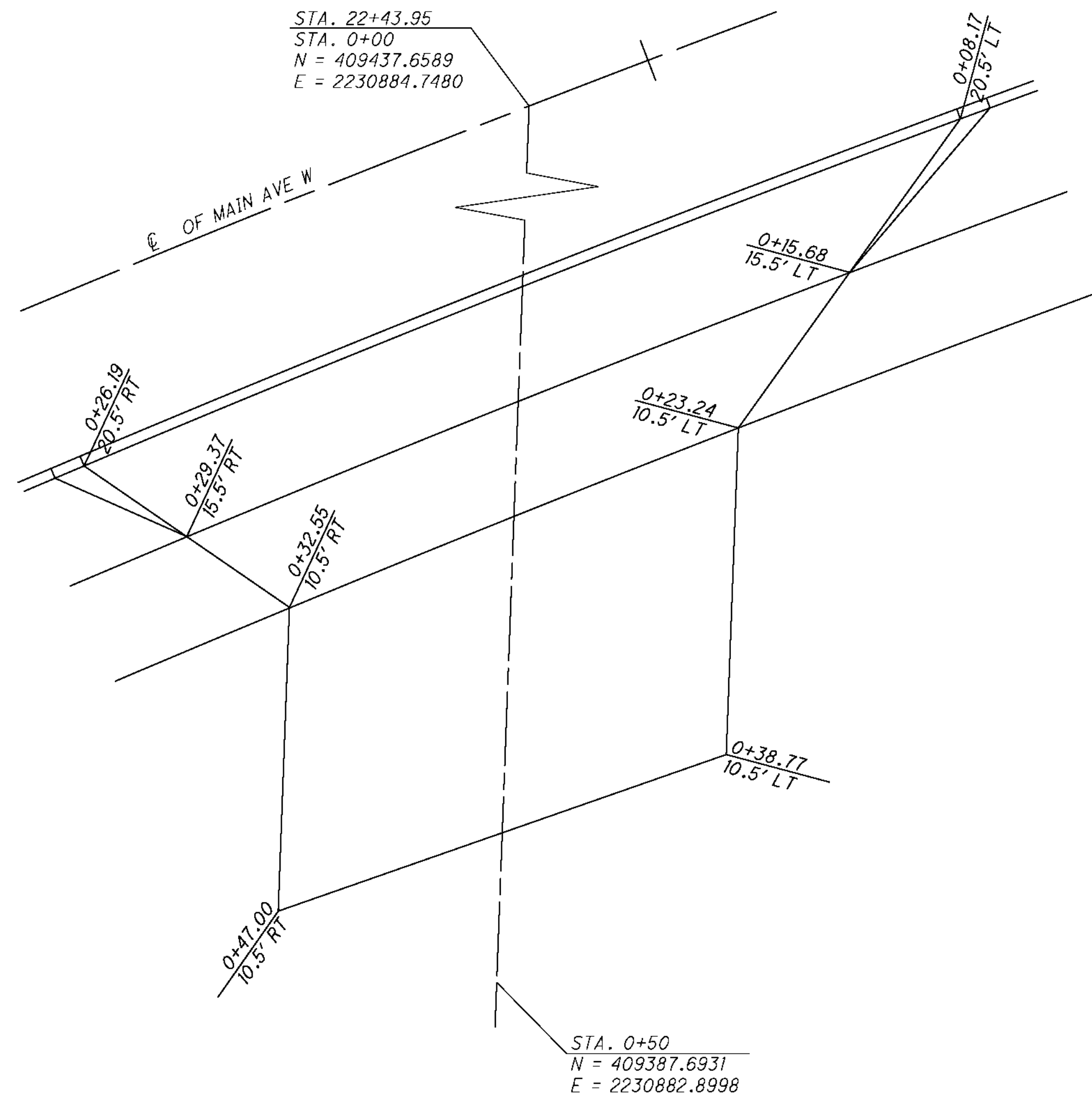
REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00sT08 / 120493

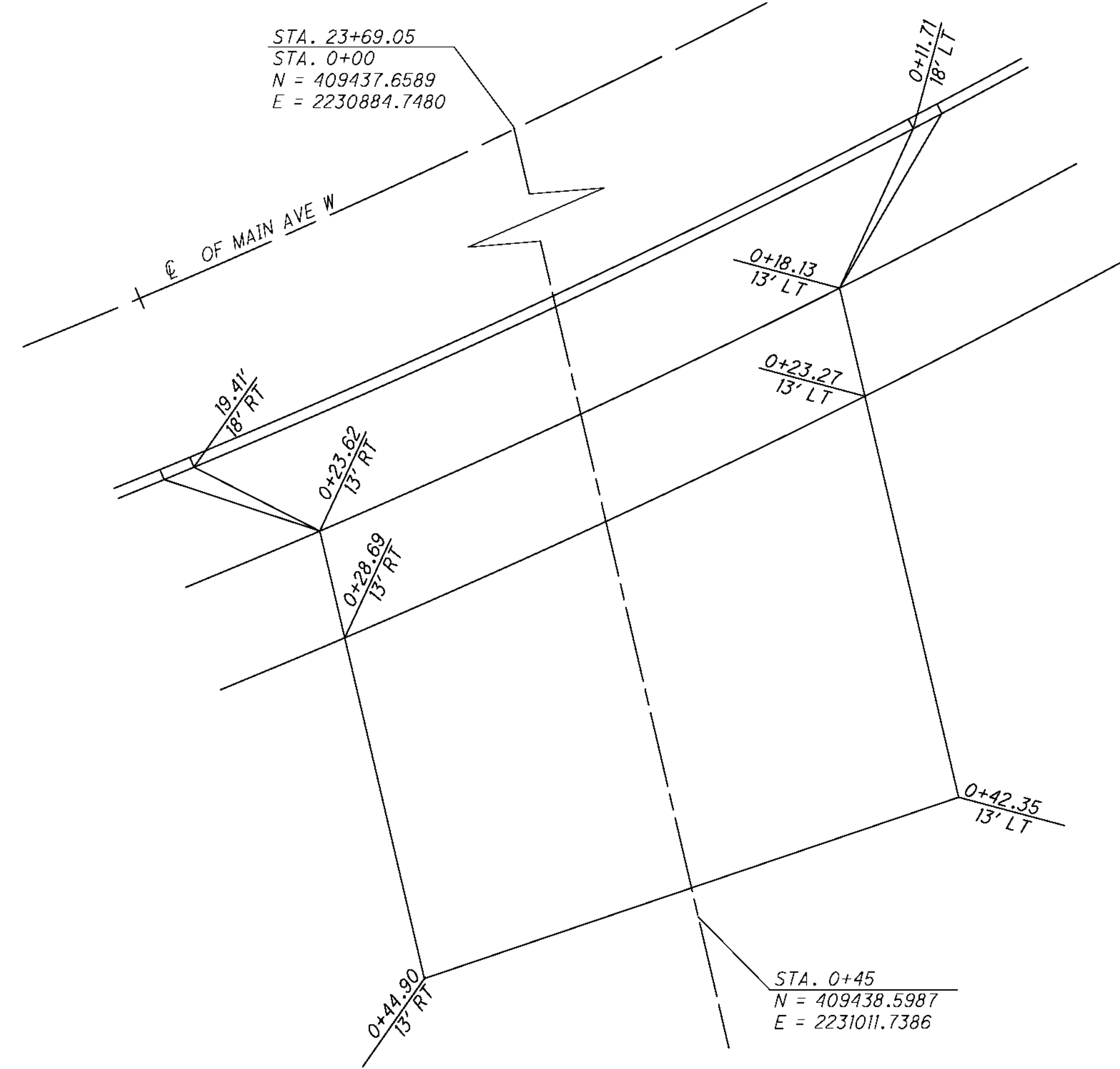
SHT NO.	TOTAL
35	49



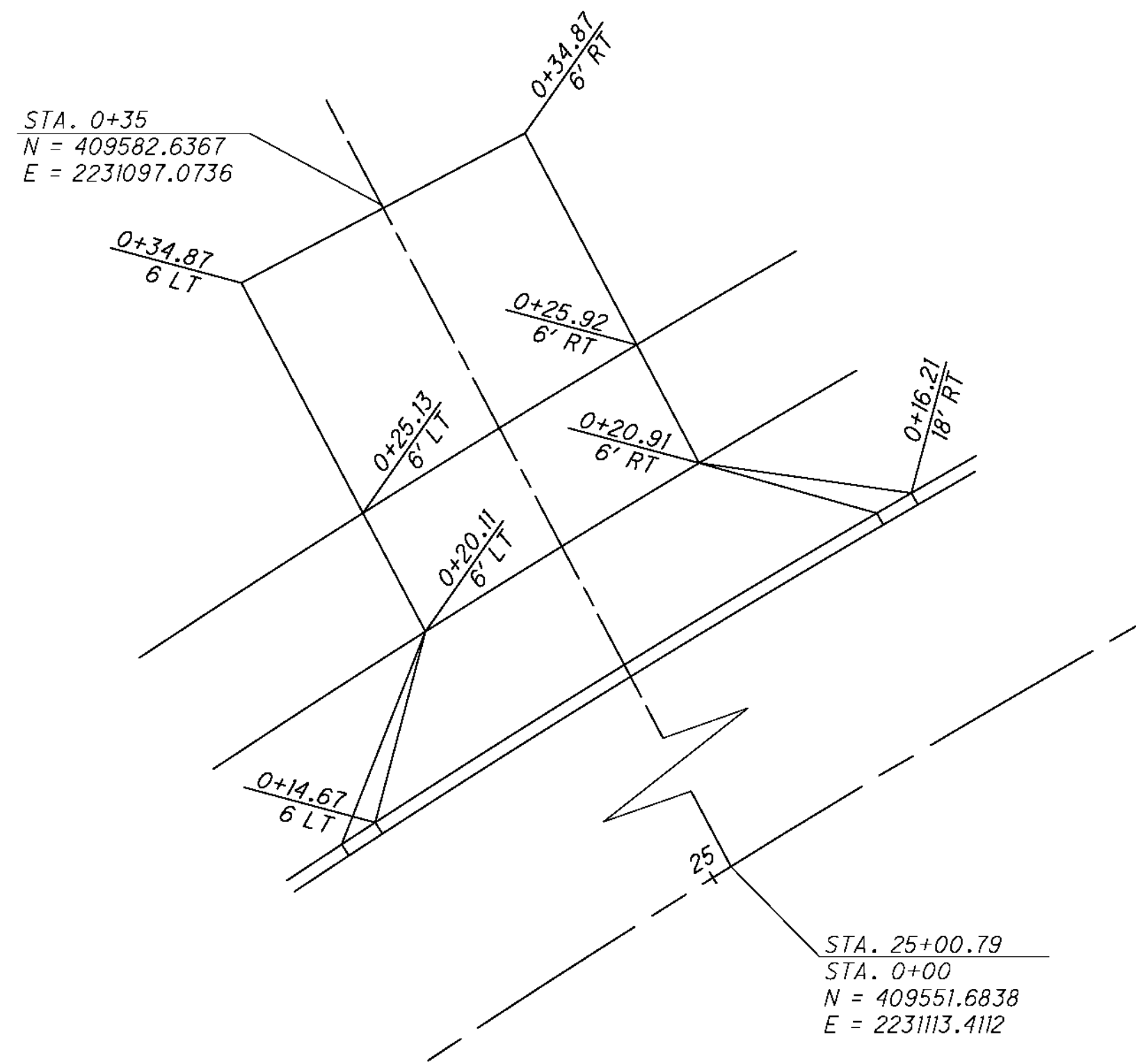
DR-1 Sta. 21+29.63 Main Ave W



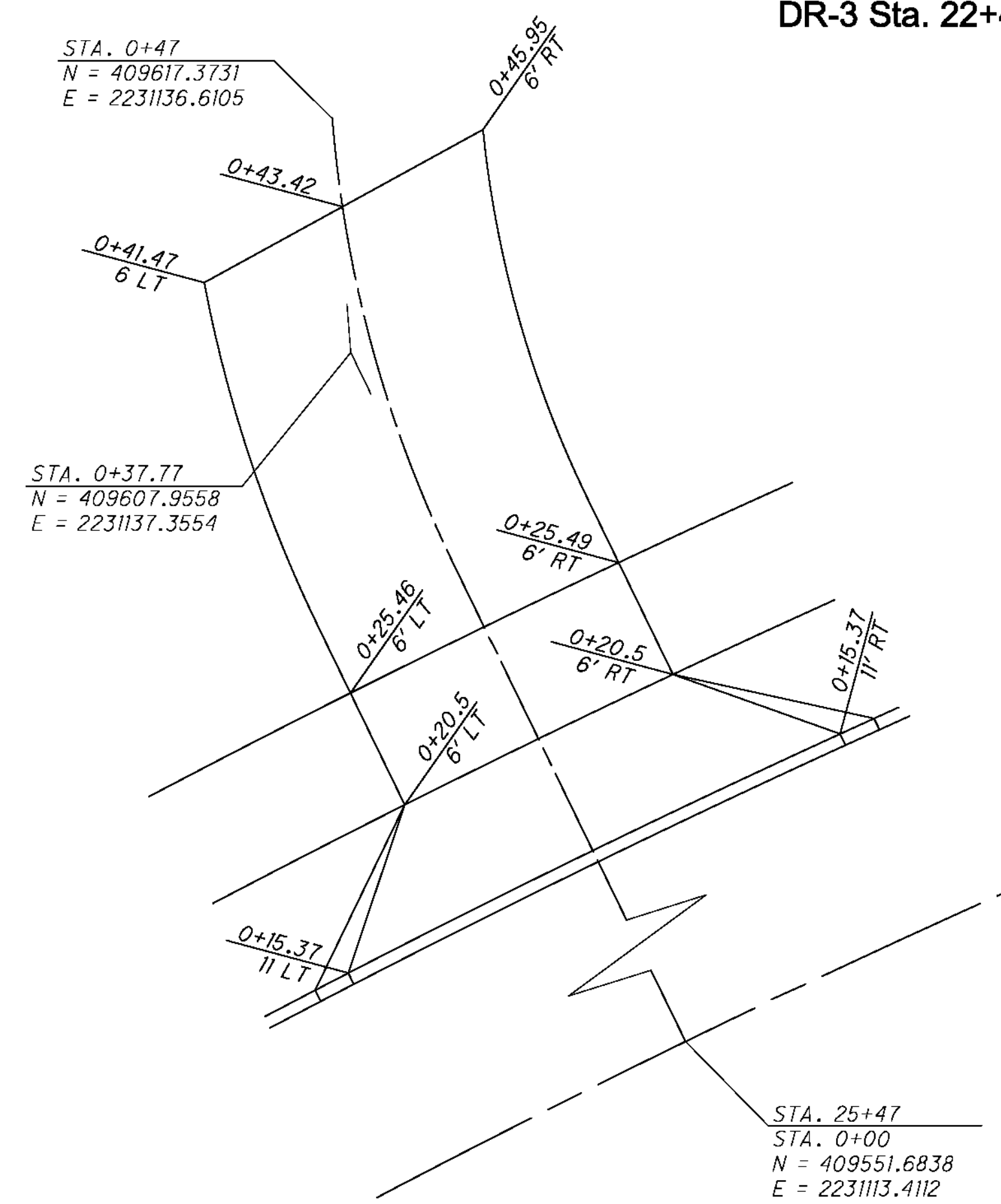
DR-2 Sta. 22+43.95 Main Ave W



DR-3 Sta. 22+43.95 Main Ave W



DR-8 Sta. 25+00.79 Main Ave W



DR-9 Sta. 25+47 Main Ave W



**STA Main/Tremont RAB**  
 Driveway Details  
 City of Massillon  
 Stark County, Ohio

COMPANY

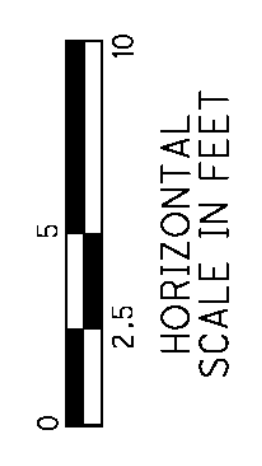


DESIGNER  
FW

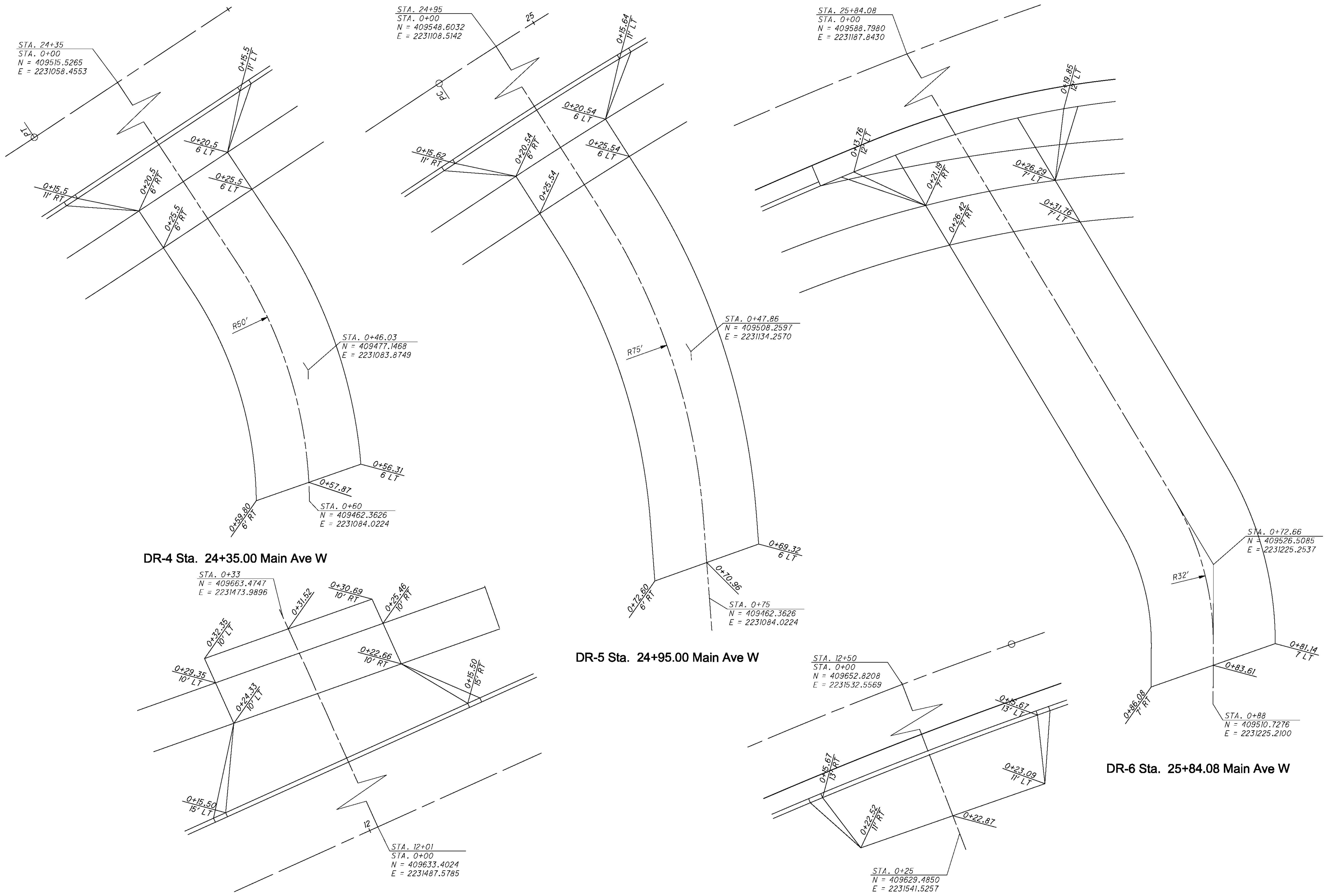
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
00st08/120493

SHEET SHEET  
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**STA Main/Tremont RAB**  
 Driveway Details  
 City of Massillon  
 Stark County, Ohio



COMPANY

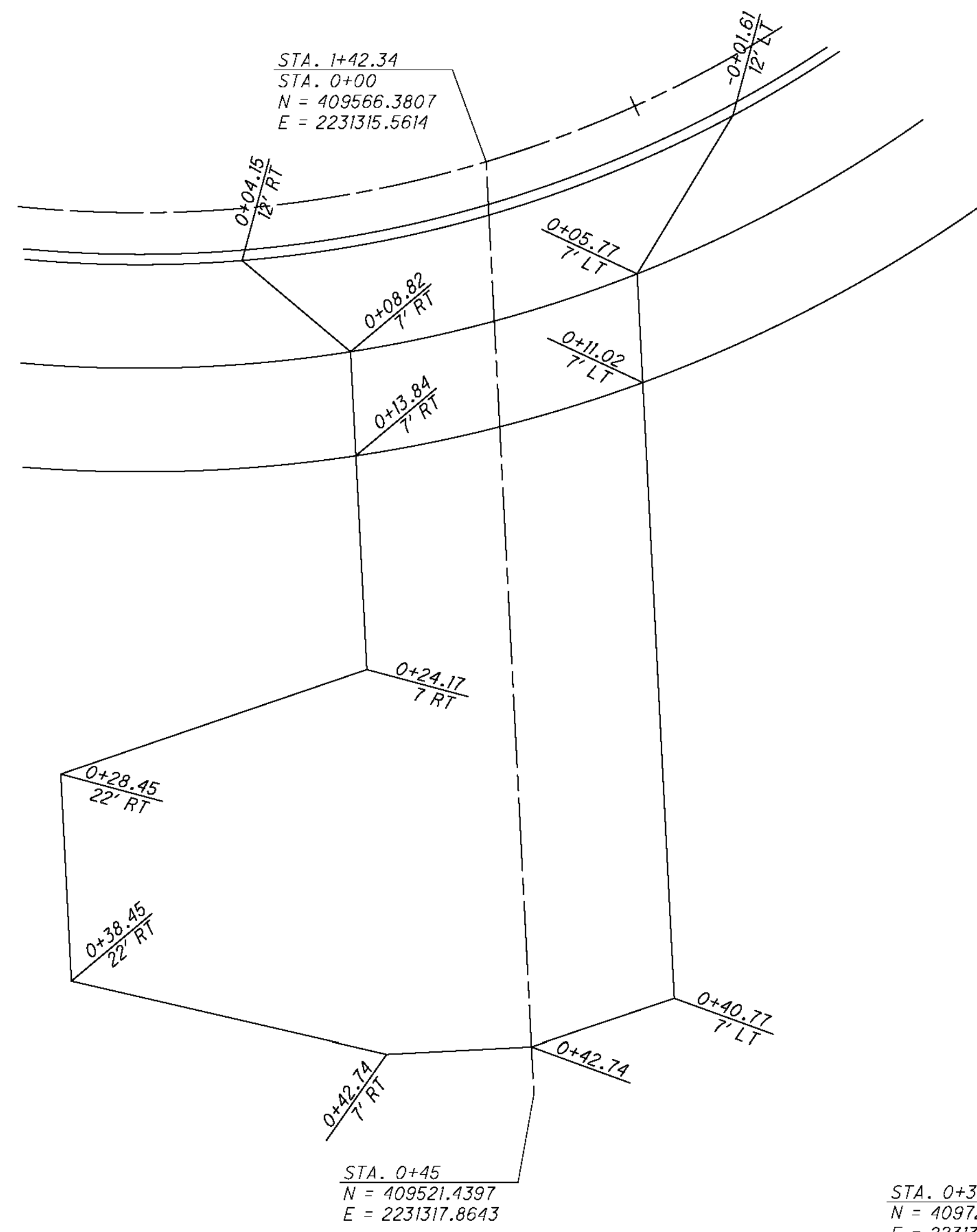


DESIGNER  
 FW

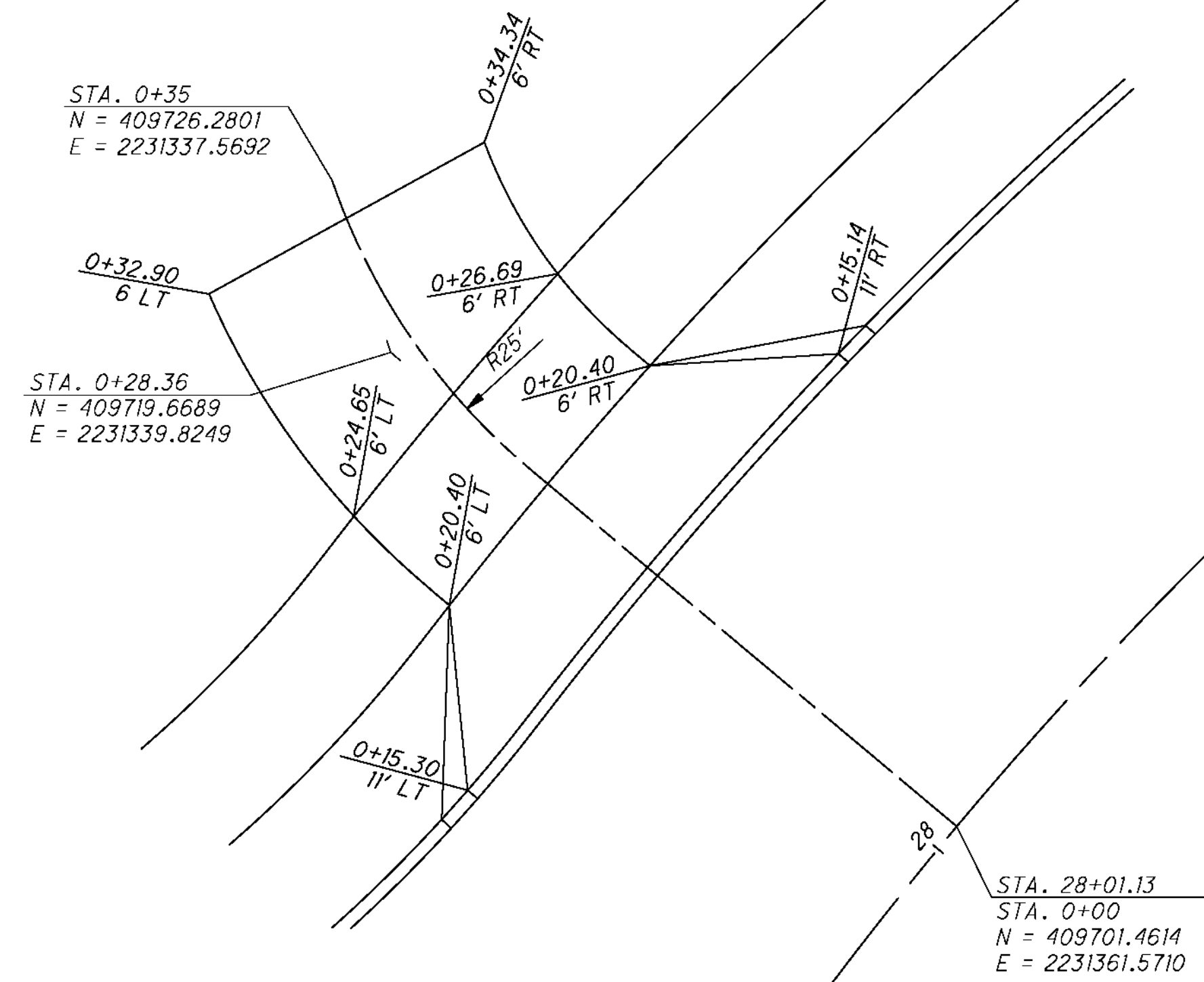
REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00st08/120493

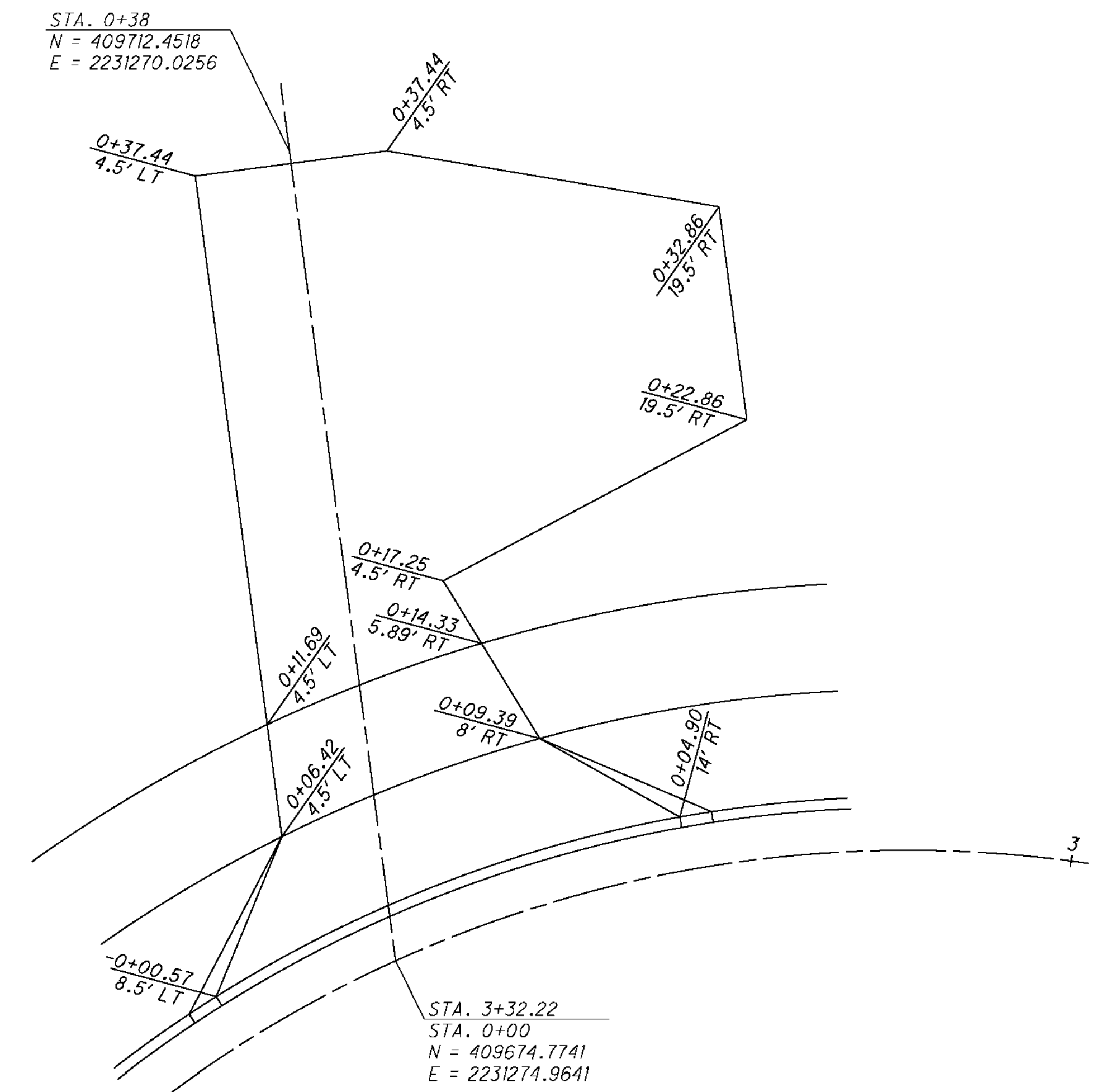
SHEET SHEET  
 37 49



DR-7 Sta. 1+42.34 Roundabout



DR-11 Sta. 28+01.13 Main Ave W



DR-10 Sta. 3+32.22 Roundabout



**STA Main/Tremont RAB**  
 Driveway Details  
 City of Massillon  
 Stark County, Ohio

COMPANY

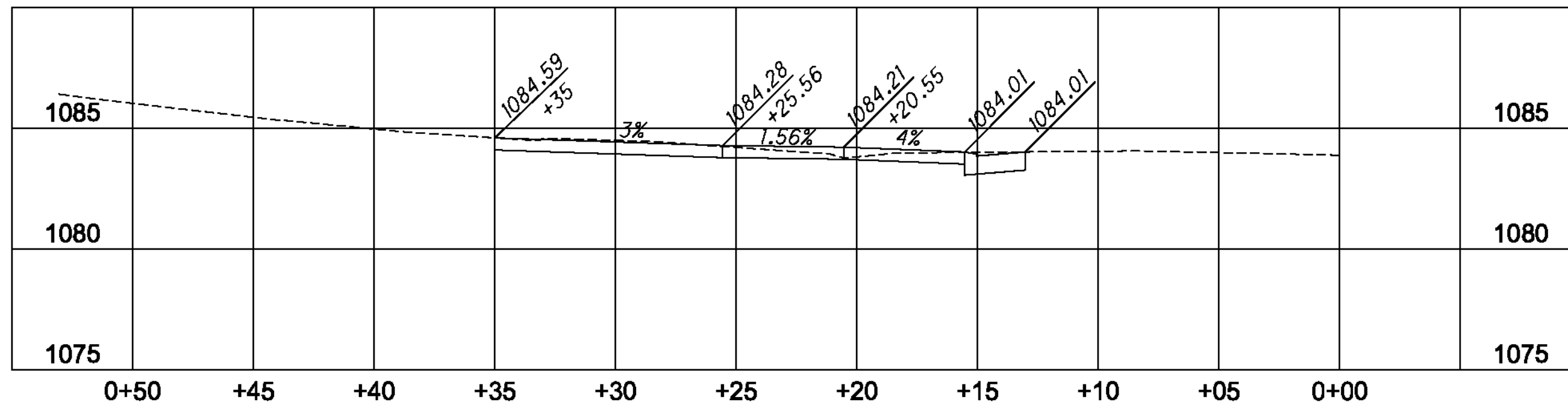


DESIGNER  
FW

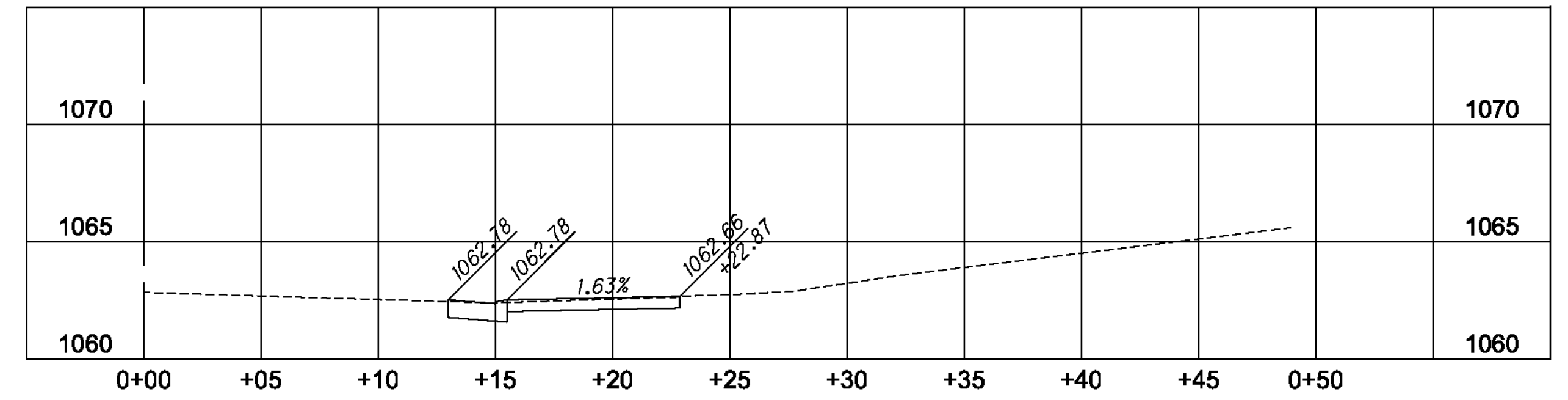
REVIEWER / DATE  
AP 7/2025

PROJECT ID  
00s†08/120493

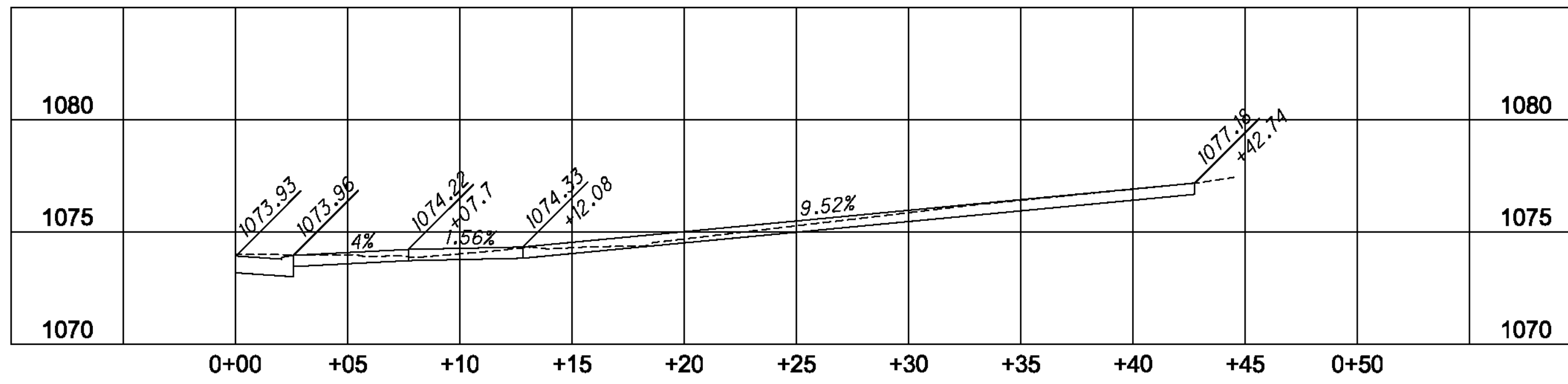
SHEET SHEET  
38 49



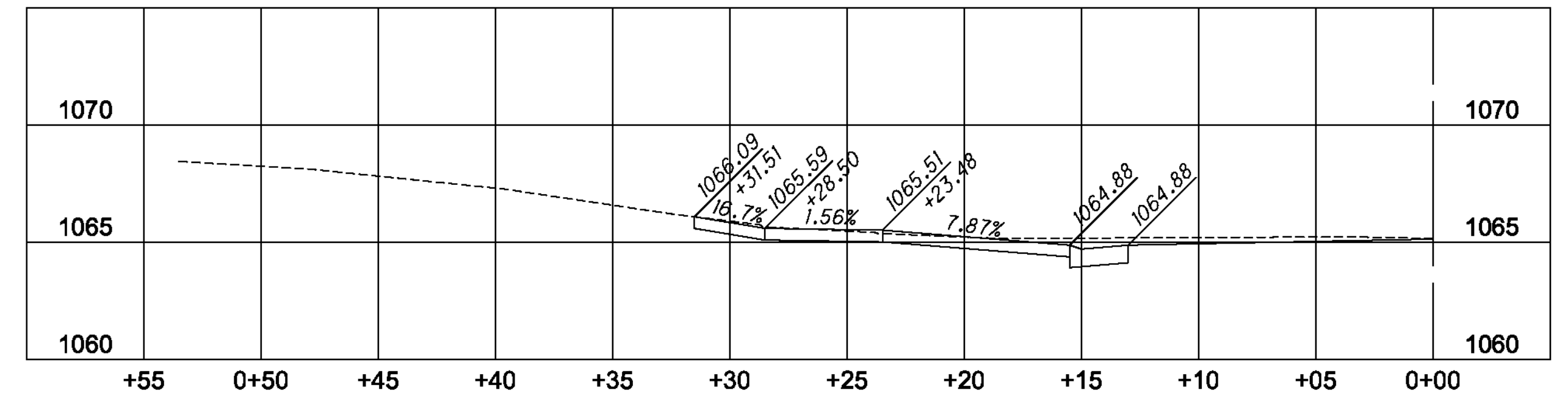
DR-8 Sta. 25+00.79 Main Ave W



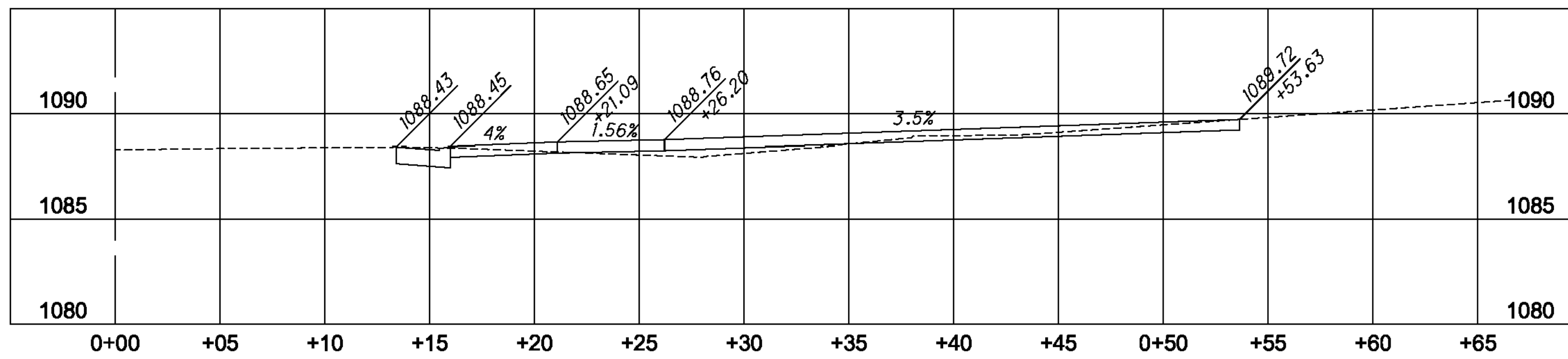
DR-13 Sta. 12+50 Tremont Ave NW



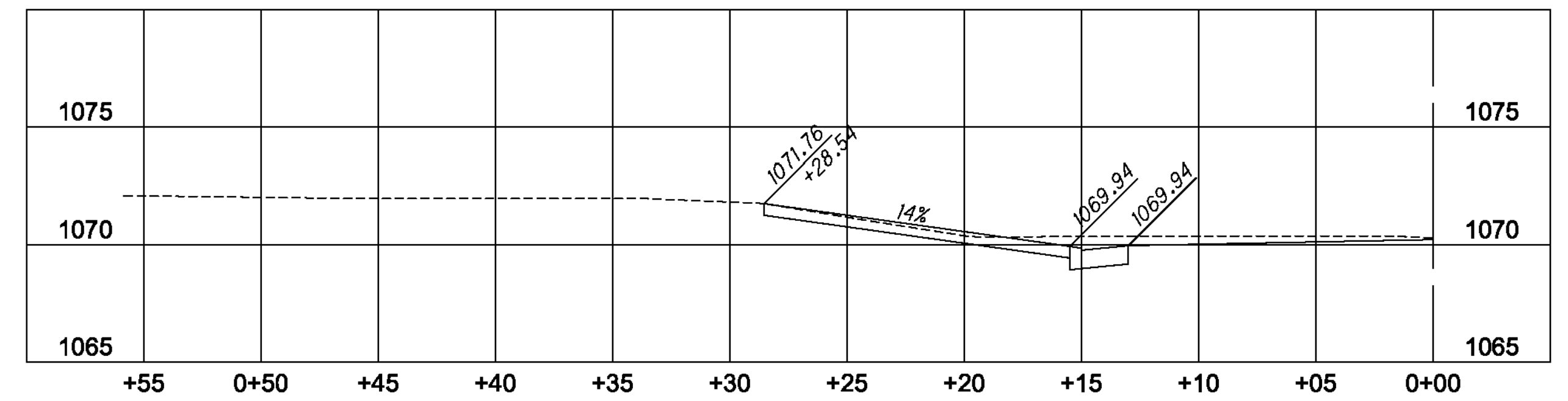
DR-7 Sta. 1+42.34 Roundabout



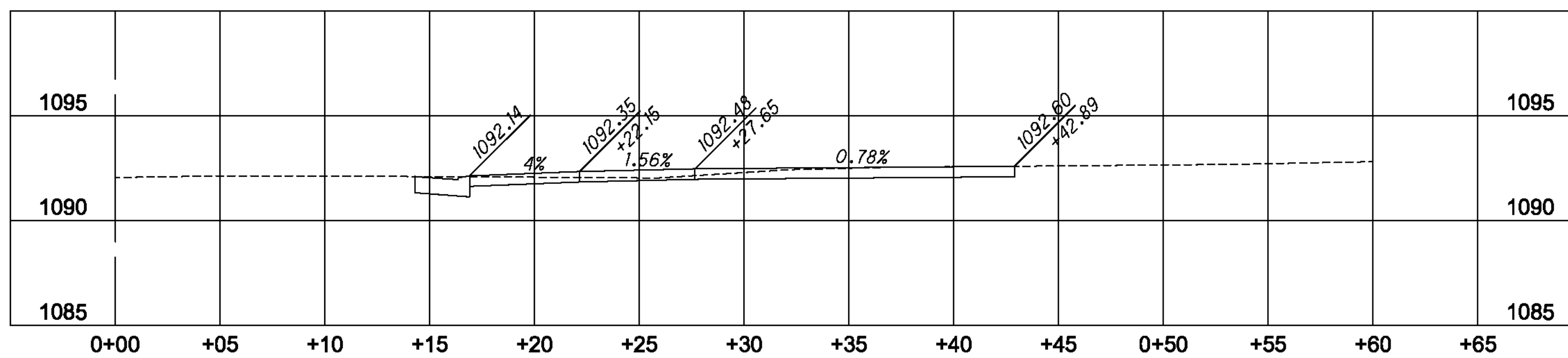
DR-12 Sta. 12+01 Tremont Ave NW



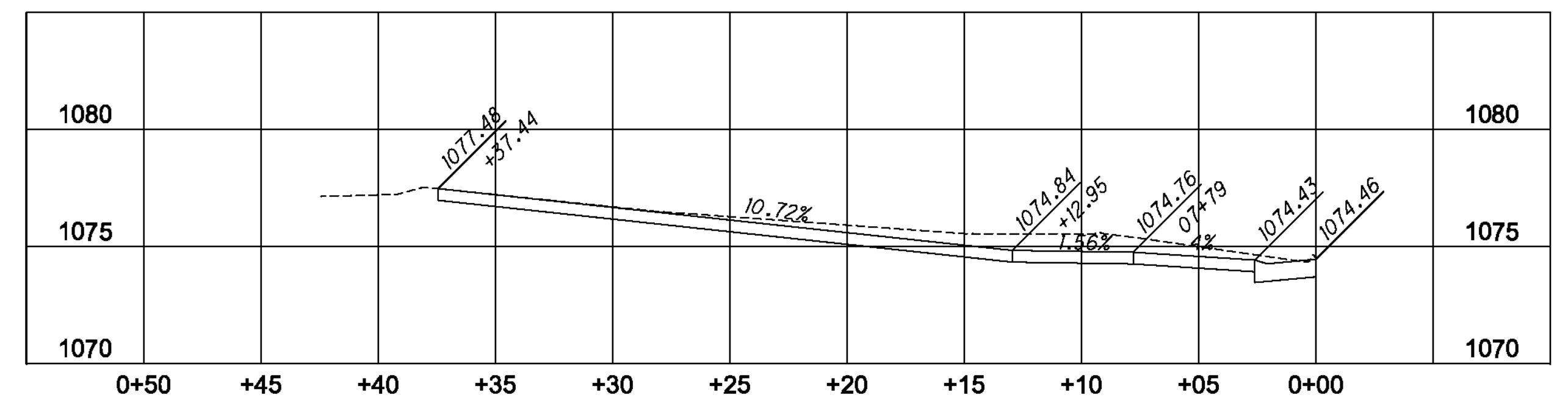
DR-3 Sta. 13+50



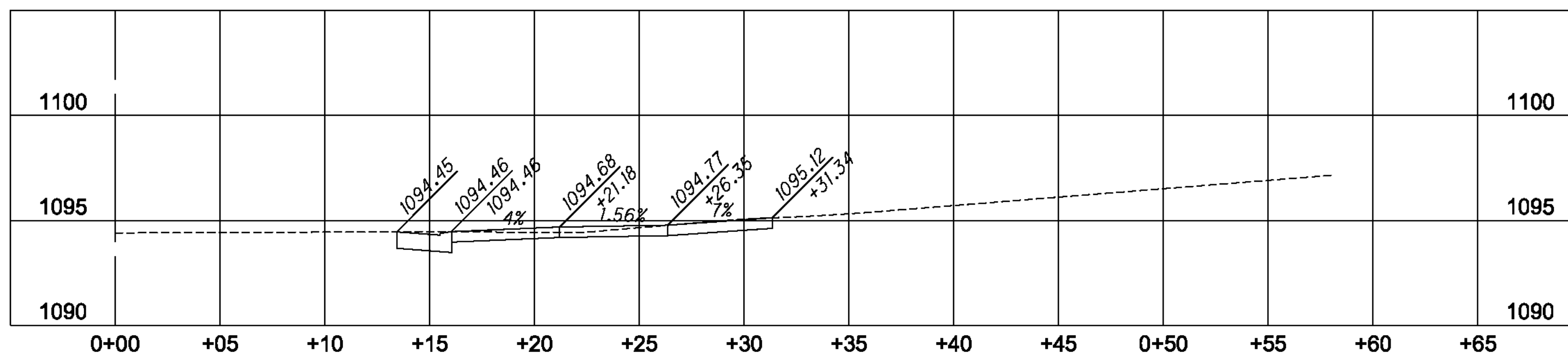
DR-11 Sta. 28+01.13 Main Ave W



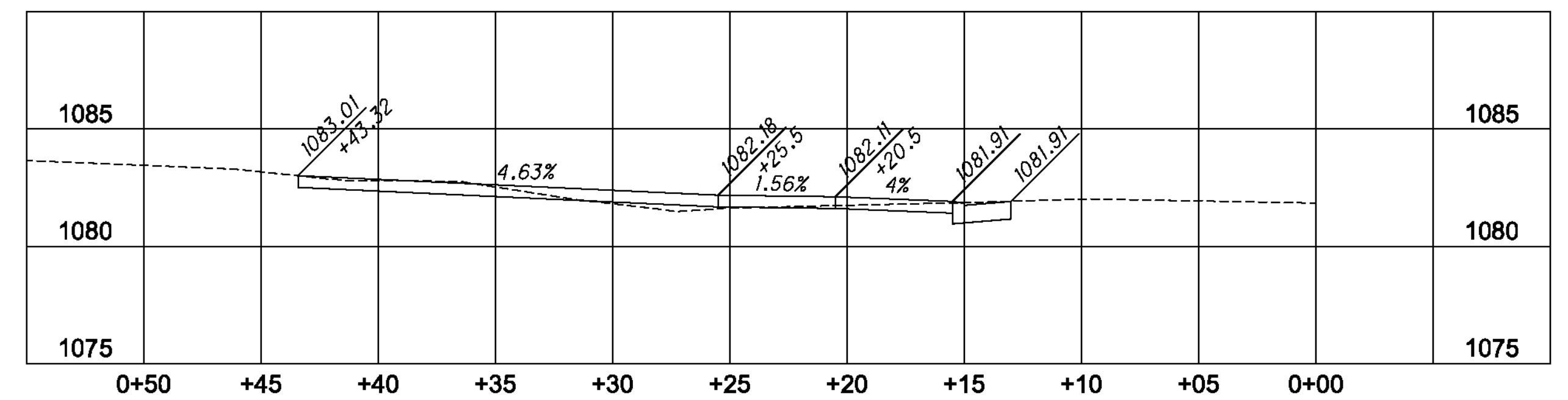
DR-2 Sta. 13+00



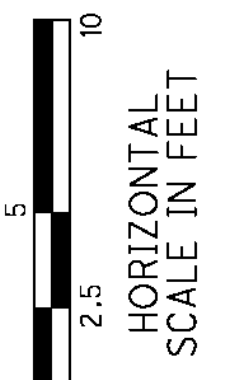
DR-10 Sta. 3+32.22 Roundabout



DR-1 Sta.



DR-9 Sta. 25+47 Main Ave W

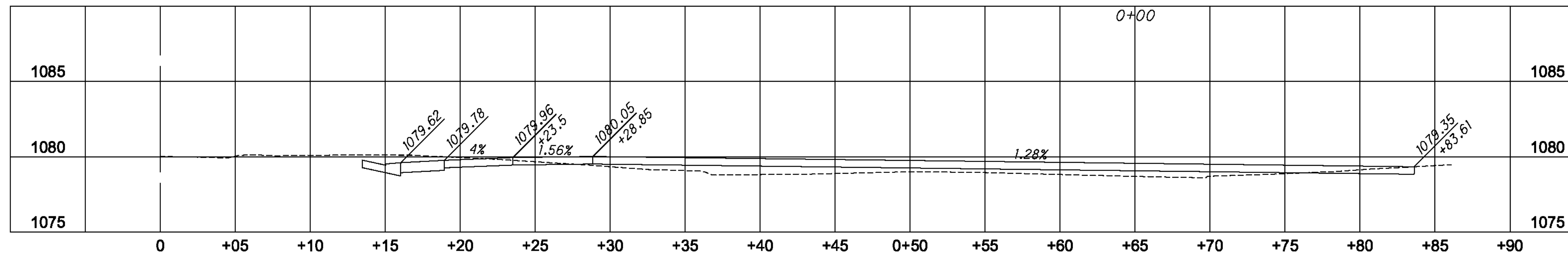
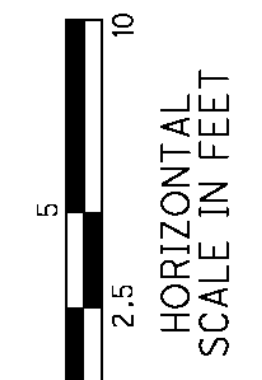
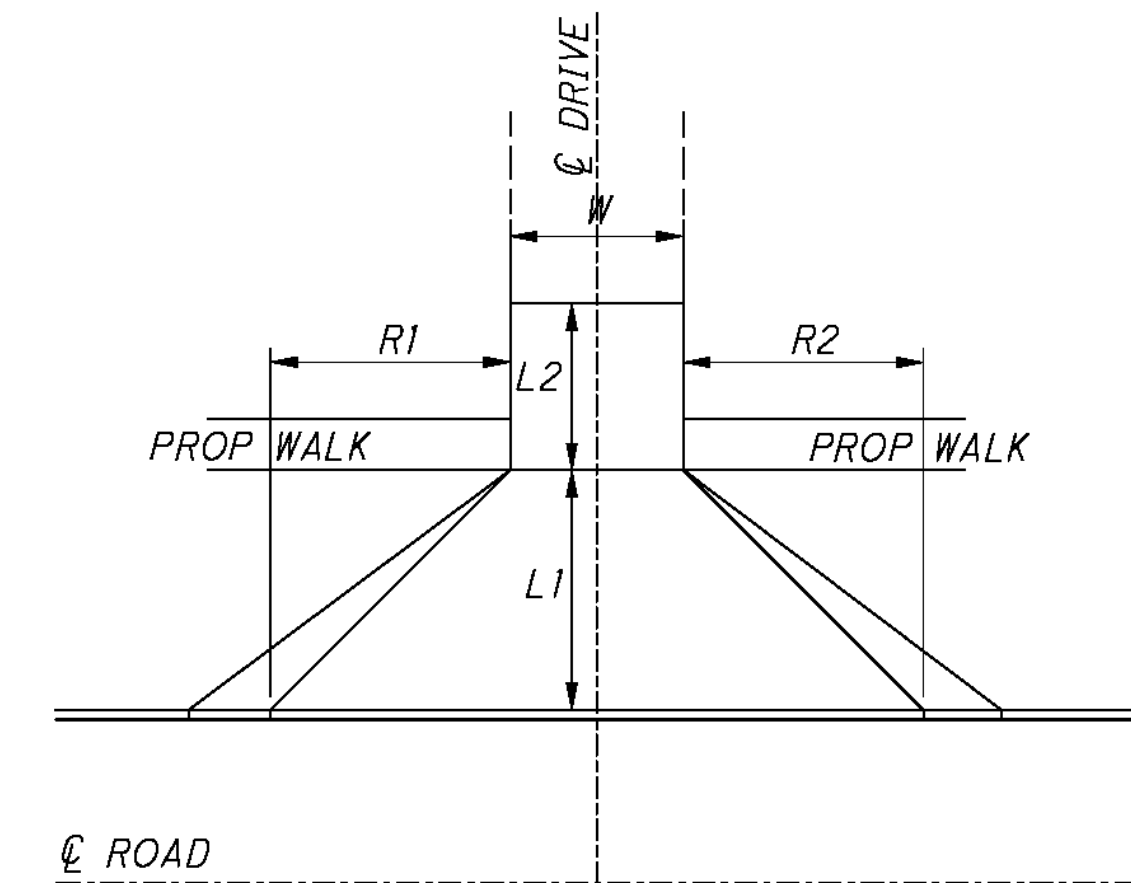


HORIZONTAL SCALE IN FEET  
 STA Main/Tremont RAB  
 Driveway Profiles  
 City of Massillon  
 Stark County, Ohio

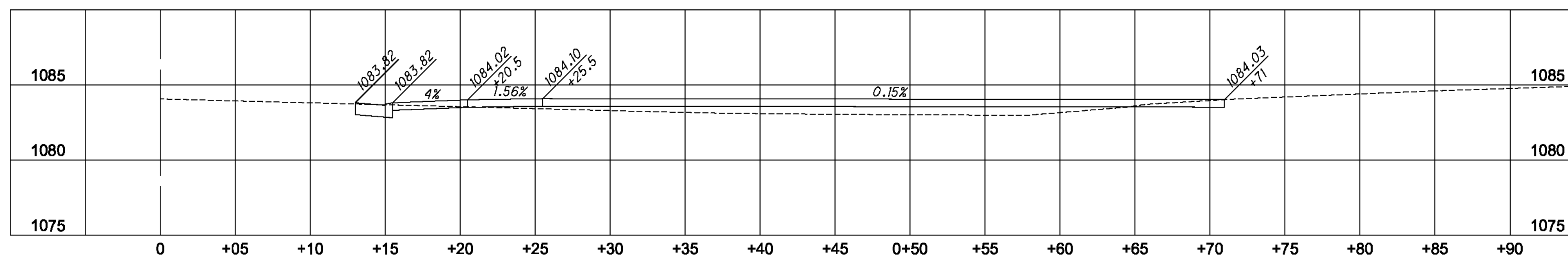
COMPANY	
DESIGNER	FW
REVIEWER / DATE	AP 7/2025
PROJECT ID	00st08/120493
SHEET	SHEET
39	49

SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	DRIVE ANGLE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	CADD GENERATED SURFACE AREA	452
					DEG.	FT.	FT.	FT.		SQ. FT.
14	DR-1	21+29.63	RT.	1	104°36'08"	5.13	10.17	10-16	243.24	27.1
14	DR-2	22+43.95	RT.	1	113°19'50"	5.46	20.52	21	661.87	73.6
14	DR-3	23+69.03	RT.	1	102°31'47"	5.11	22.54	26	753.76	83.8
15	DR-4	24+35	RT.	1	90°00'00"	5	37.37	12	540.96	60.1
15	DR-5	24+95	RT.	1	90°00'00"	5	50.46	12	697.29	77.5
15	DR-6	25+84.08	RT.	1	80°12'40"	4.57	60.10	14	926.39	103.0
15	DR-7	1+42.34	RT.	1	103°48'32"	5.12	35.04	14	797.04	88.6
15	DR-8	25+00.79	LT.	1	86°01'16"	5.01	14.32	12	264.61	29.4
15	DR-9	25+47	LT.	1	90°00'00"	5	22.93	12	368.41	41.0
15	DR-10	3+32.22	RT.	1	106°51'13"	5.19	29.66	9	605.36	67.3
15-16	DR-11	28+01.13	LT.	1	90°00'00"	5.16	12.79	12	250.18	27.8
17	DR-12	12+01.00	LT.	1	90°00'00"	7.99	8.03	20	372.36	41.4
17	DR-13	12+50.00	RT.	1	90°00'00"	7.37		22	186.51	20.7
TOTALS CARRIED TO GENERAL SUMMARY										741.3

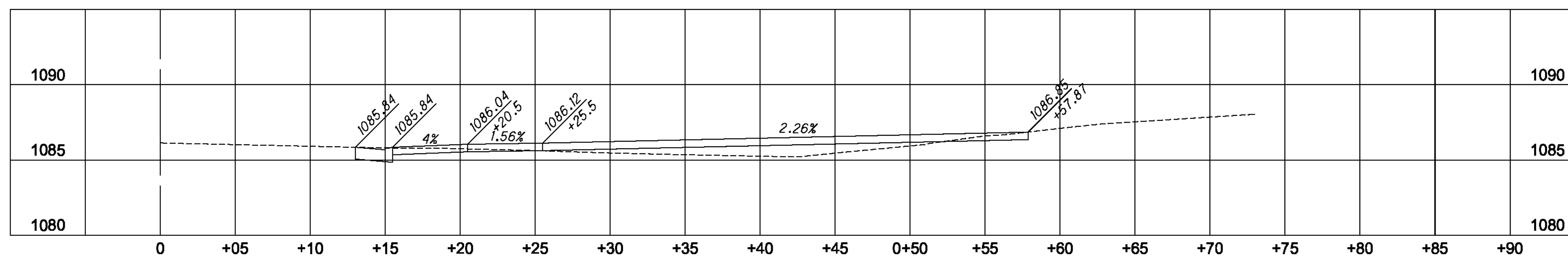
TYPE 1 DRIVEWAY PLAN VIEW (TYPICAL)



DR-6 Sta. 25+84.08 Main Ave W



DR-5 Sta. 24+95 Main Ave W



DR-4 Sta. 24+35 Main Ave W

STA Main/Tremont RAB  
 Driveway Profiles  
 City of Massillon  
 Stark County, Ohio

COMPANY

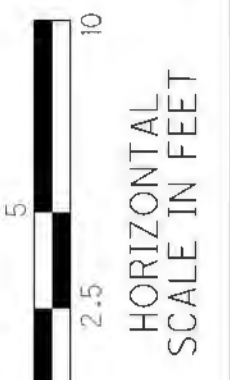
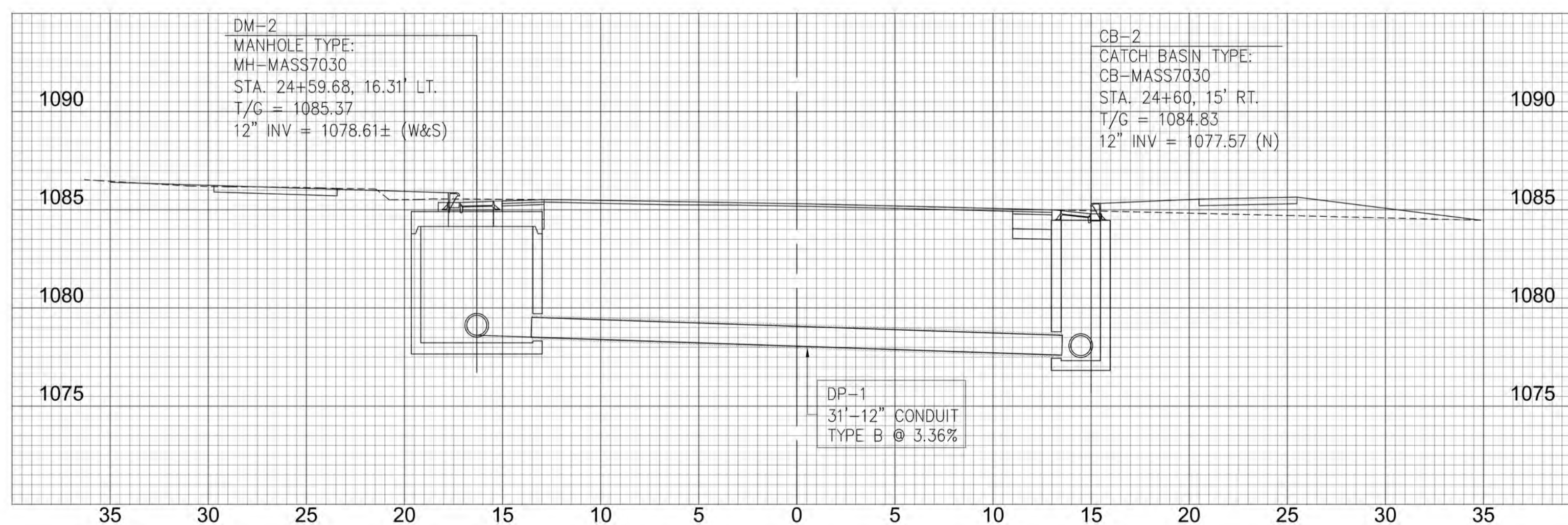
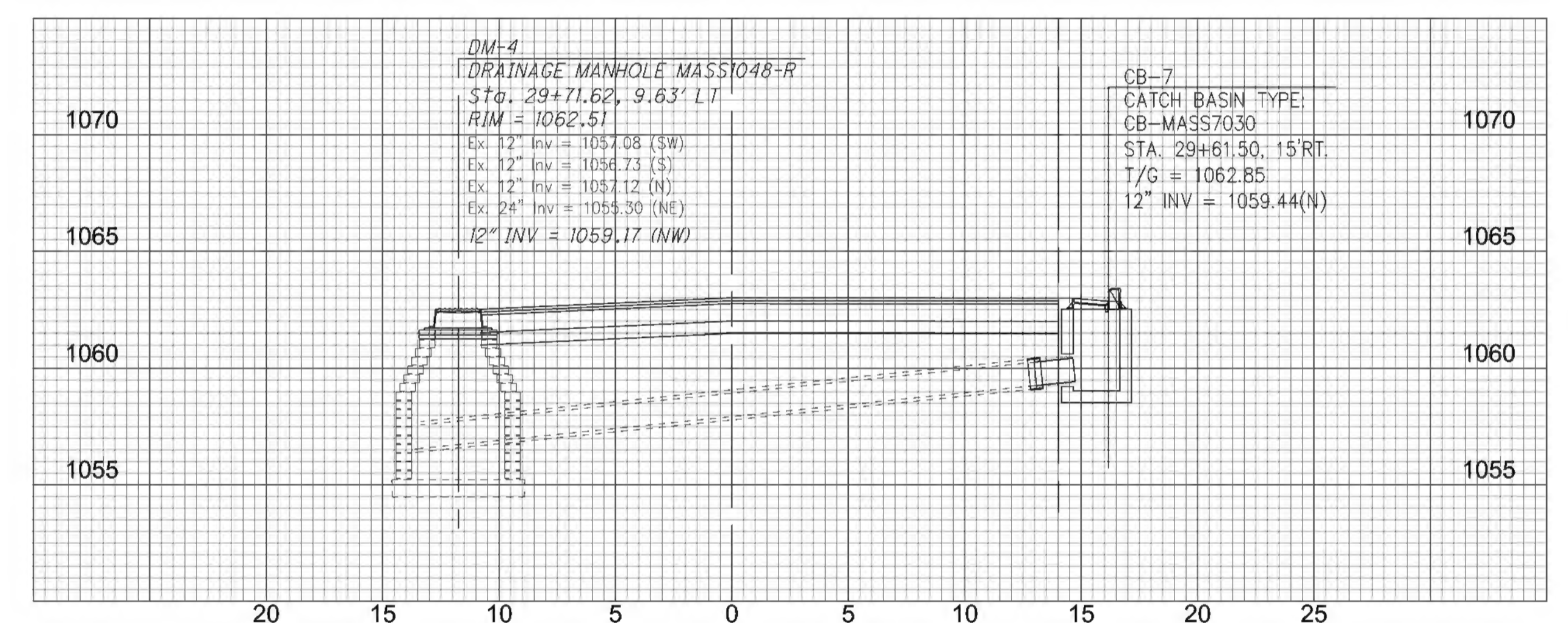
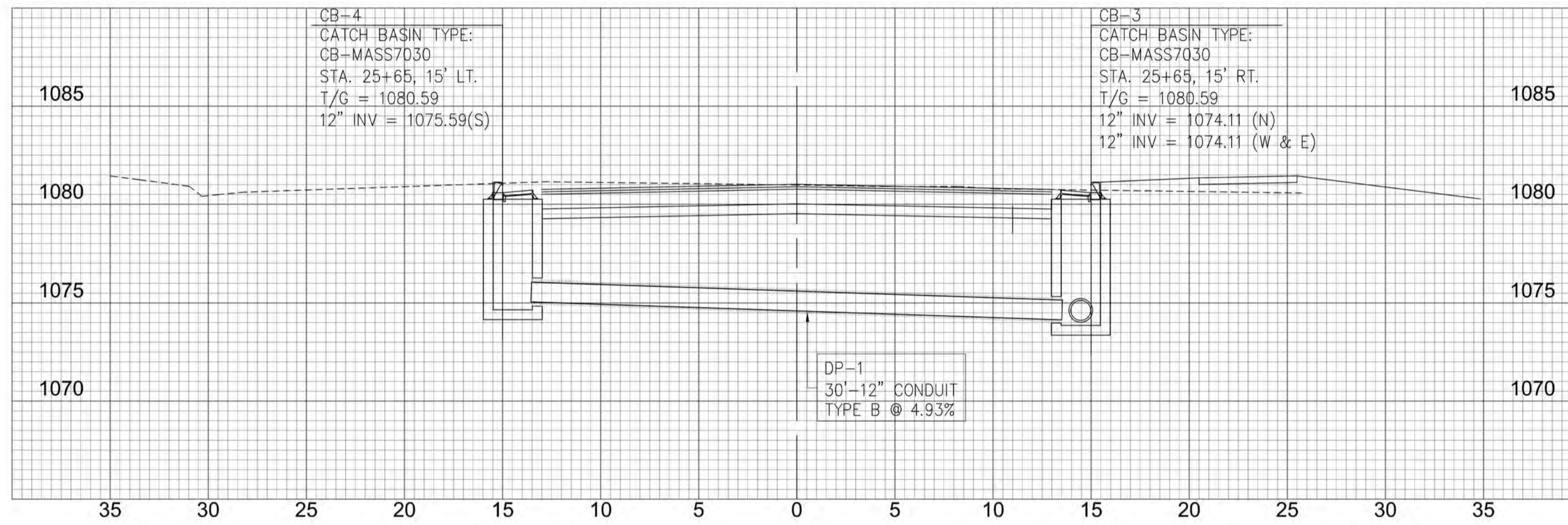
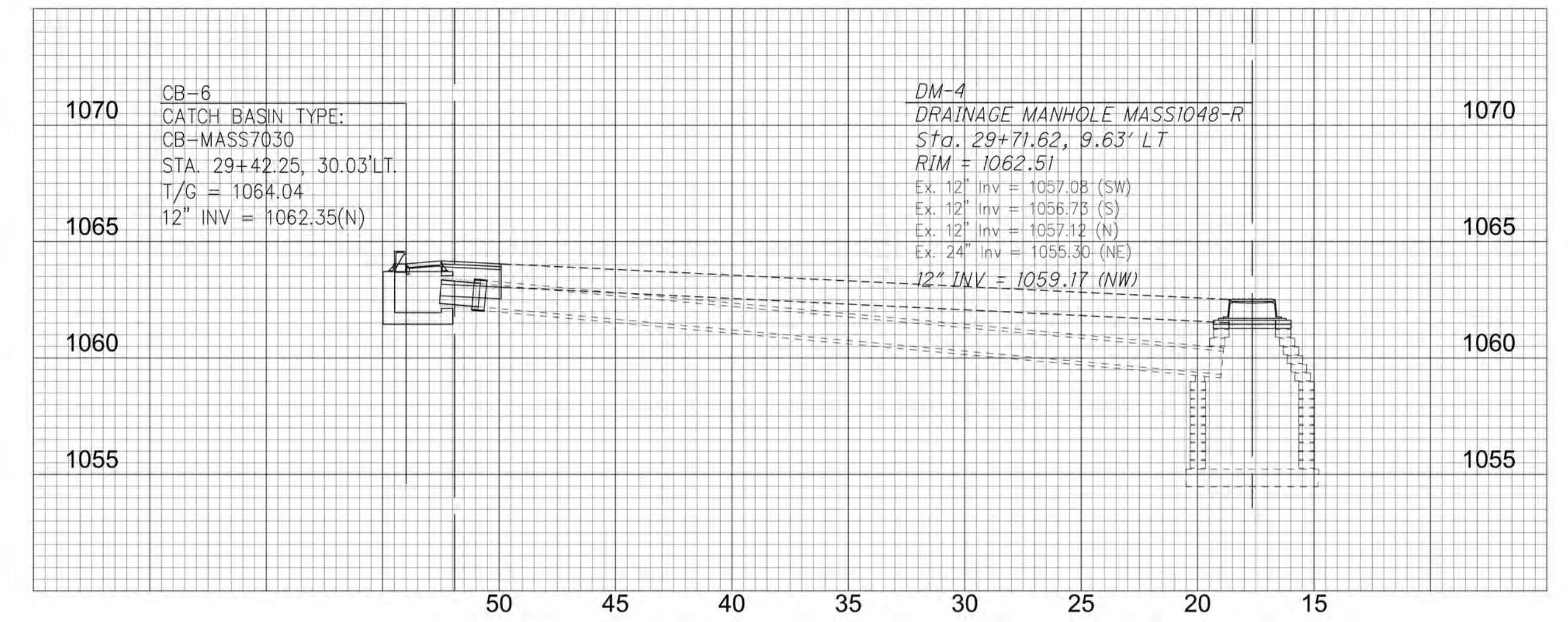
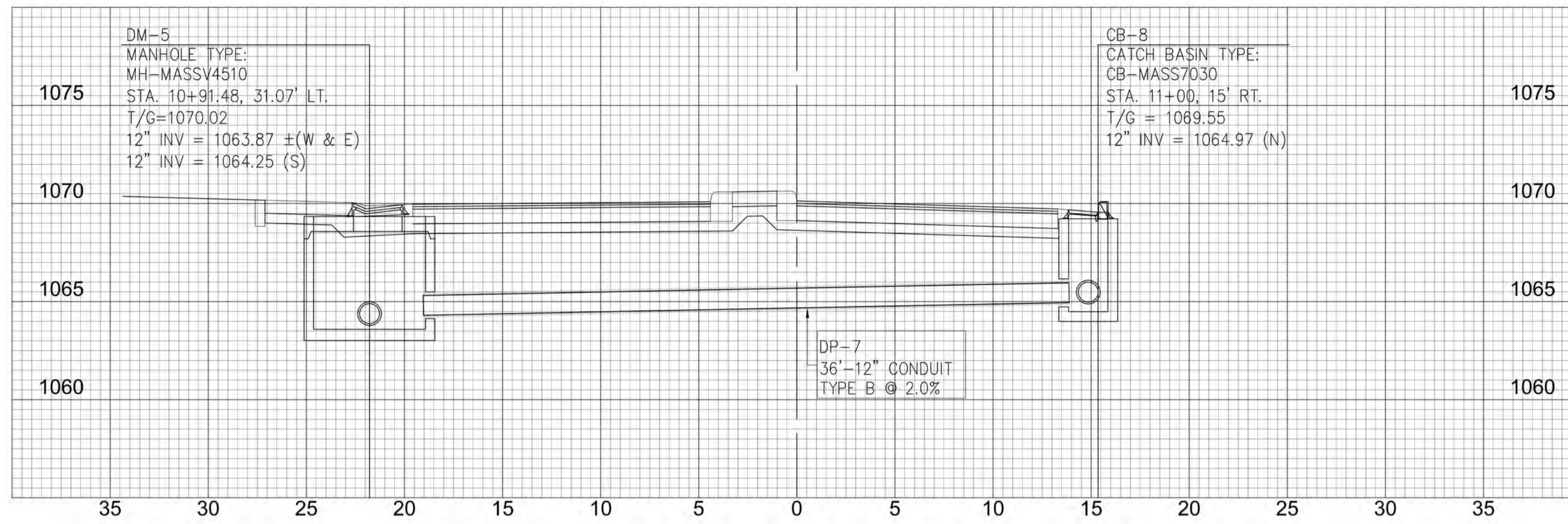


DESIGNER  
 FW

REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00st08/120493

SHEET 40 SHEET 49



**STA Main/Tremont RAB**  
Storm Sewer Profiles  
City of Massillon  
Stark County, Ohio

COMPANY

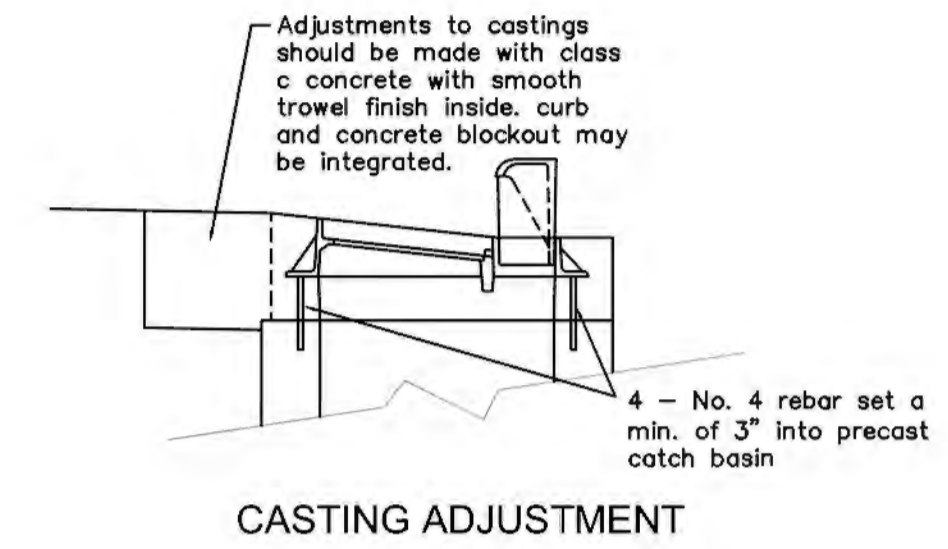
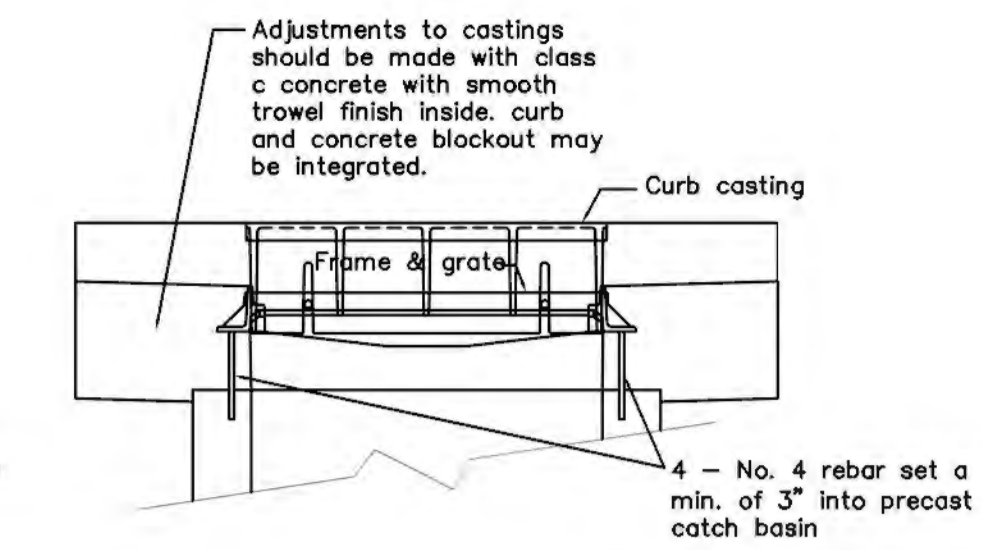
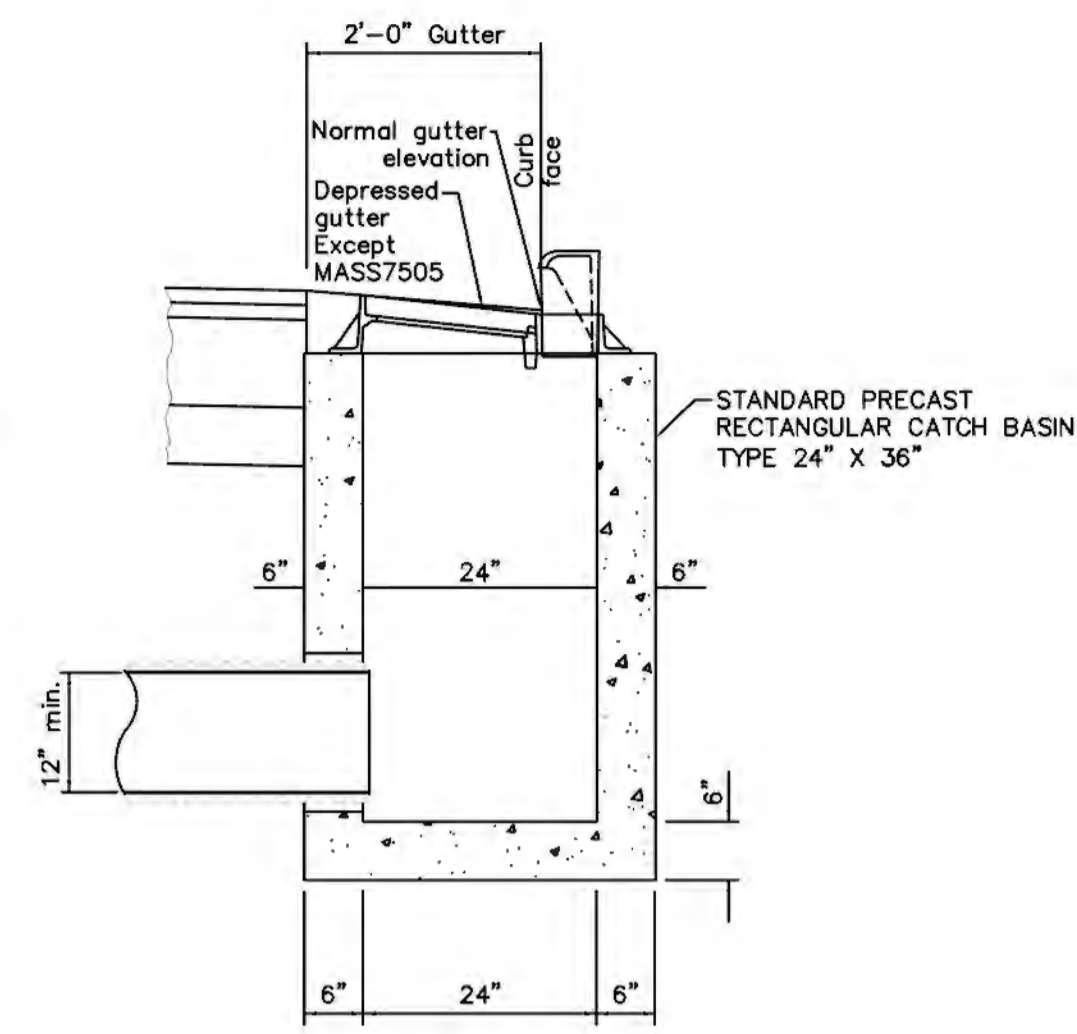
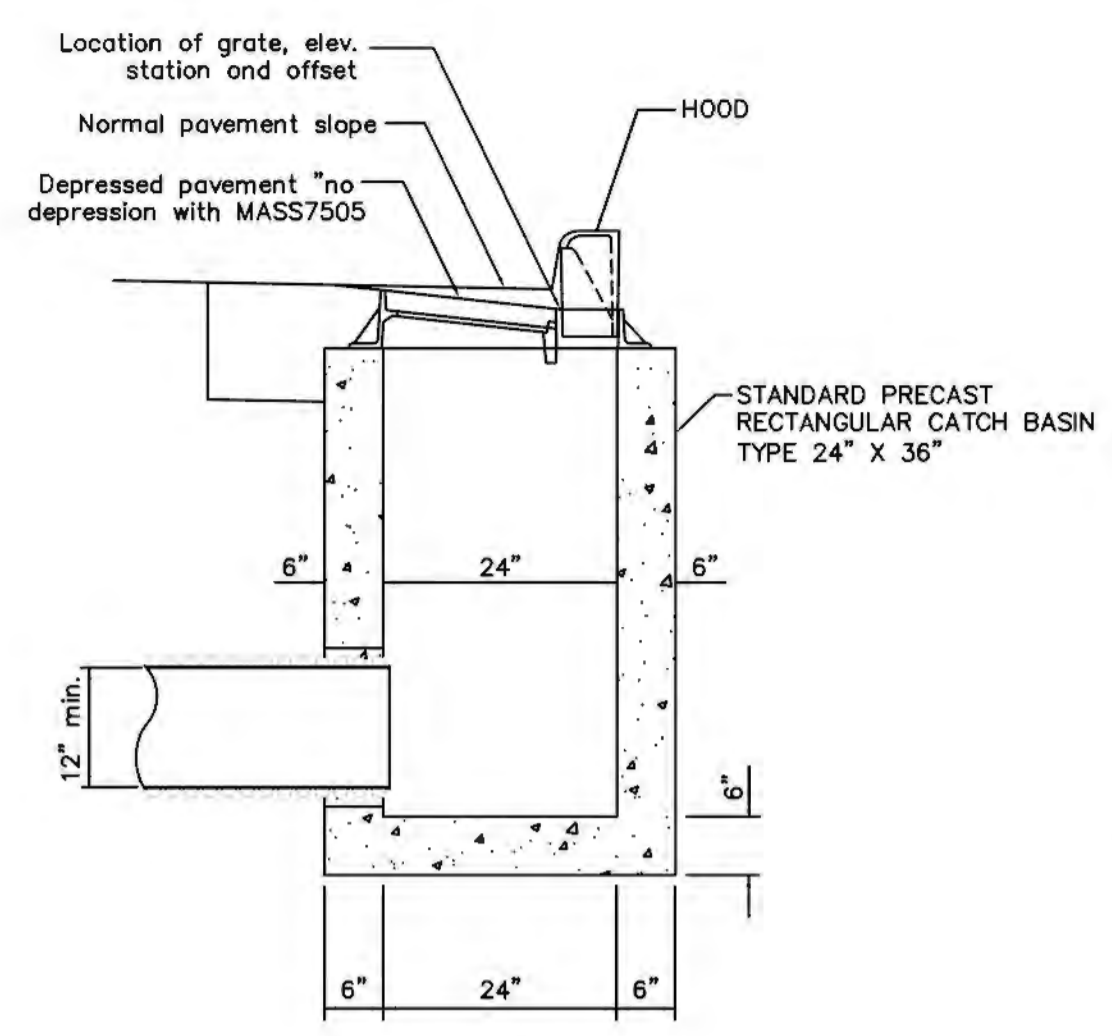
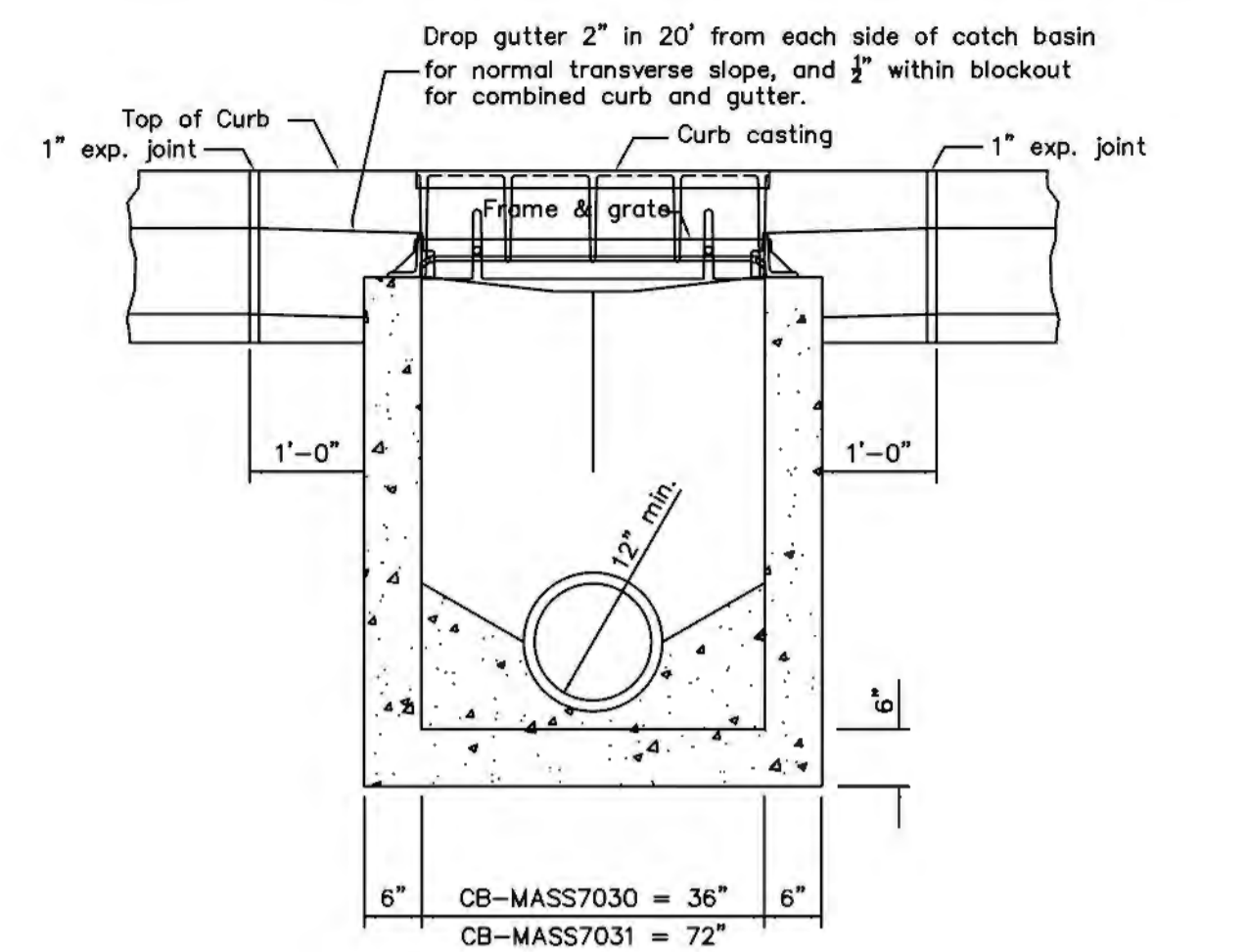


DESIGNER  
FPW

REVIEWER / DATE  
AP 10/2025

PROJECT ID  
22ST08 / 120493

SHEET SHEET  
41 49



**GRATES:** Two required. For details, see EJ 7030Z. provide Grate M2 unless the plans specifically require the bicycle safety grate.

**CASTINGS:** Provide a design essentially the same and equally as strong as the one shown. Below is a list of approved EJ

Frame	=	7030 Z, 7031 Z, 7505
Grate	=	7030 M2, 7505
Hood	=	7030 M3 for bicycle safety
	=	7030 T1, 7505
	=	7030 T3 for drop curb areas

**BEARING AREAS:** Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

**PRECAST CONSTRUCTION:** Meet CMS 706.13 concrete requirements. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and placement without damage. Reduce the wall thickness from the outside.

**MINIMUM DEPTH:** The minimum depth is per the cover requirements for that pipe type.

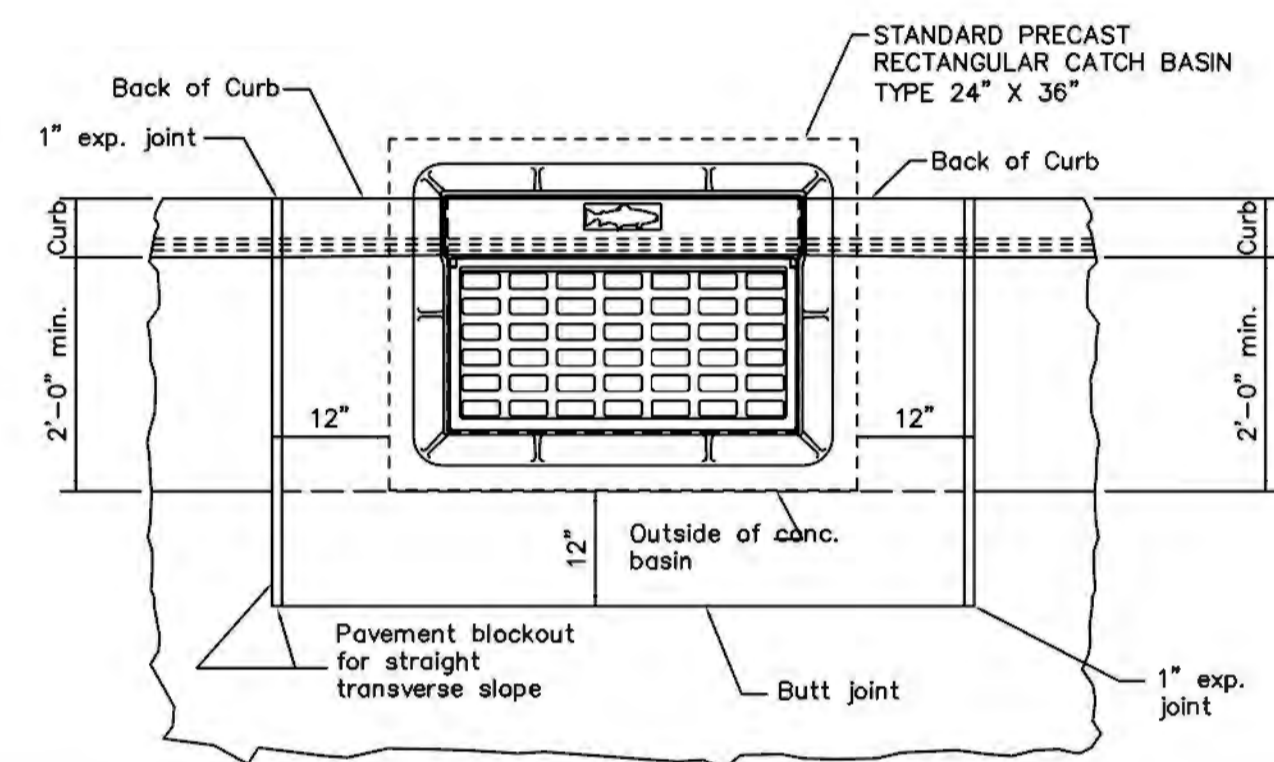
**OPENINGS:** Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

**DOWELS:** Furnish four 1"x18" dowels for concrete pavement or gutter blockout. See SCD BP-2.2 for dowel details.

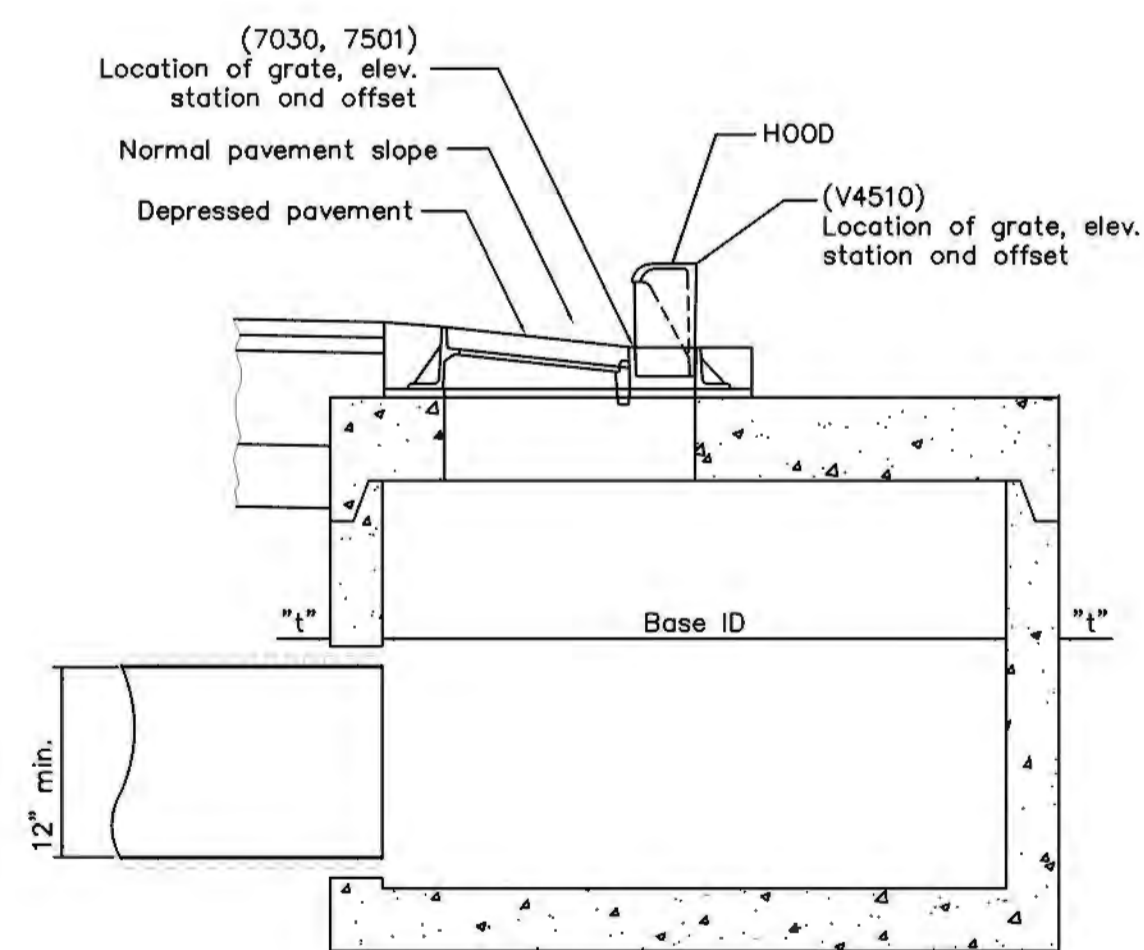
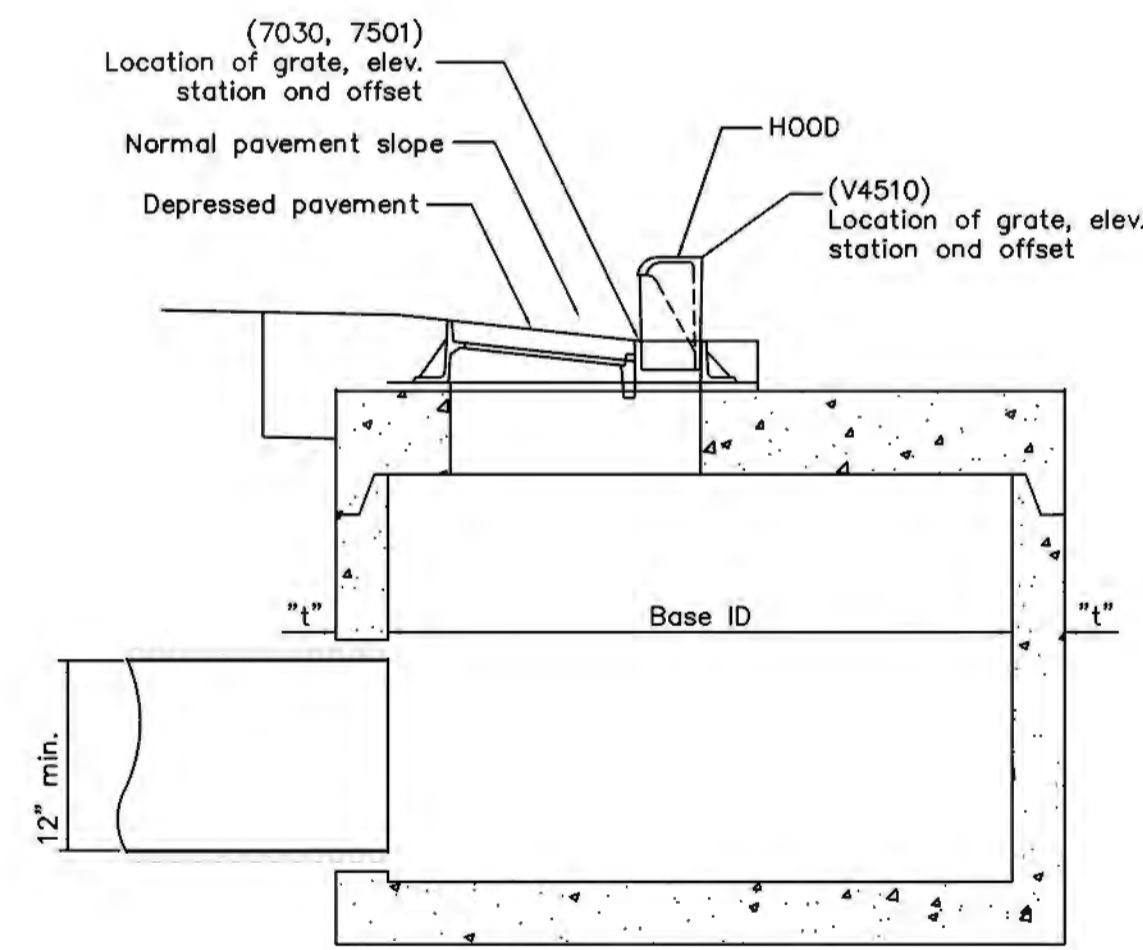
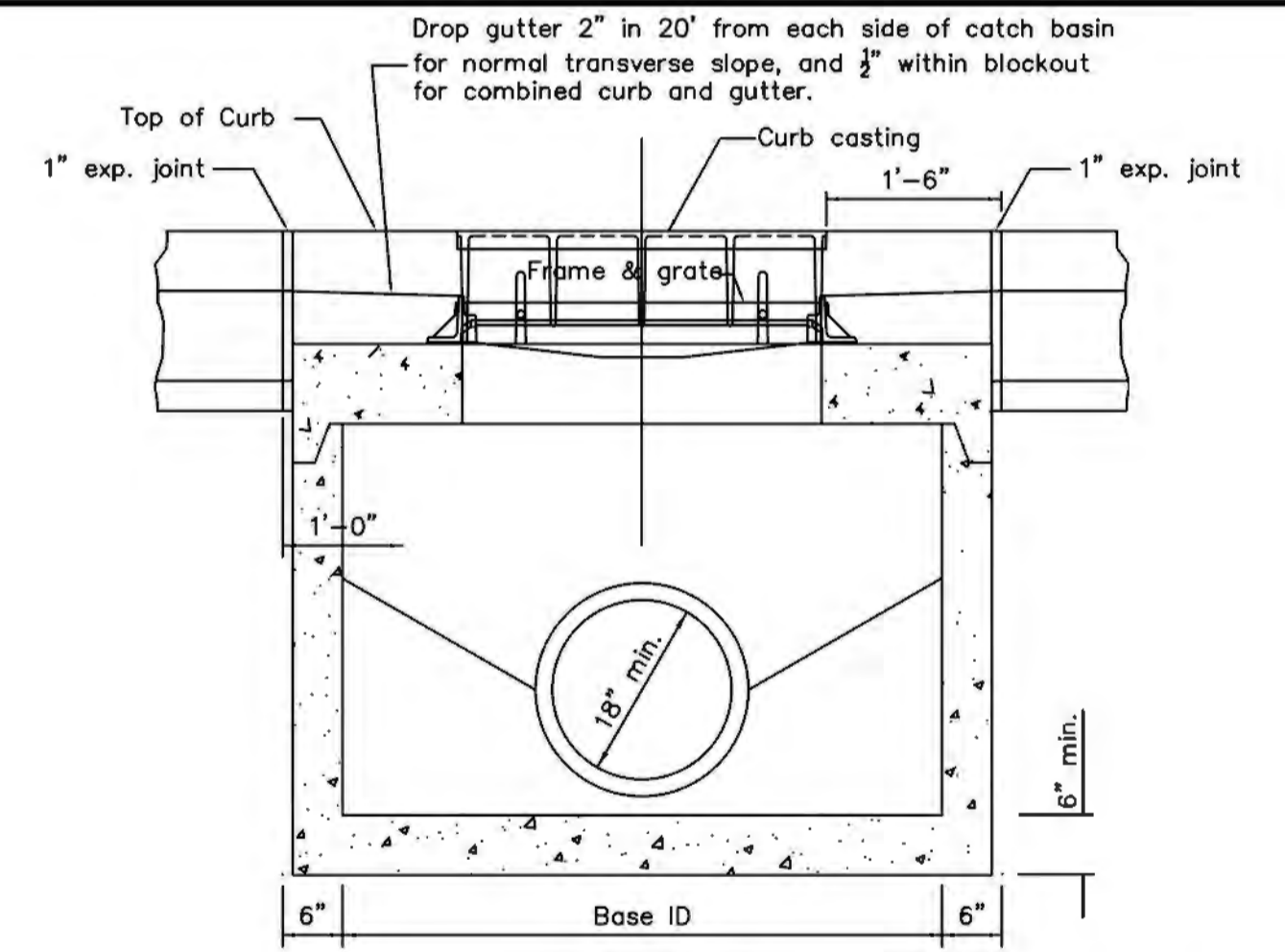
**BLOCKOUT:** Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blockout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611Spec - Catch Basin, Mass7030.

**ADJUSTMENT:** No brick shall be used to adjust castings height. See Adjustment detail this sheet.



CB-MASS7030, CB-MASS7505



**GRATES:** Two required. For details, see EJ 7030Z. provide Grate M2 unless the plans specifically require the bicycle safety grate.

**CASTINGS:** Provide a design essentially the same and equally as strong as the one shown. Below is a list of approved EJ

Frame	=	7030 Z, 7505, V4510
Grate	=	7030 M2, 7505, V4510
Hood	=	7030 M3 for bicycle safety
	=	7030 T1, 7505
	=	7030 T3 for drop curb areas

**BEARING AREAS:** Fit and finish the frame and grate to provide a firm seat and even seat. No projections are permitted on bearing areas, and grate must seat in its frame without rocking.

**MINIMUM DEPTH:** The minimum depth is per the cover requirements for that pipe type.

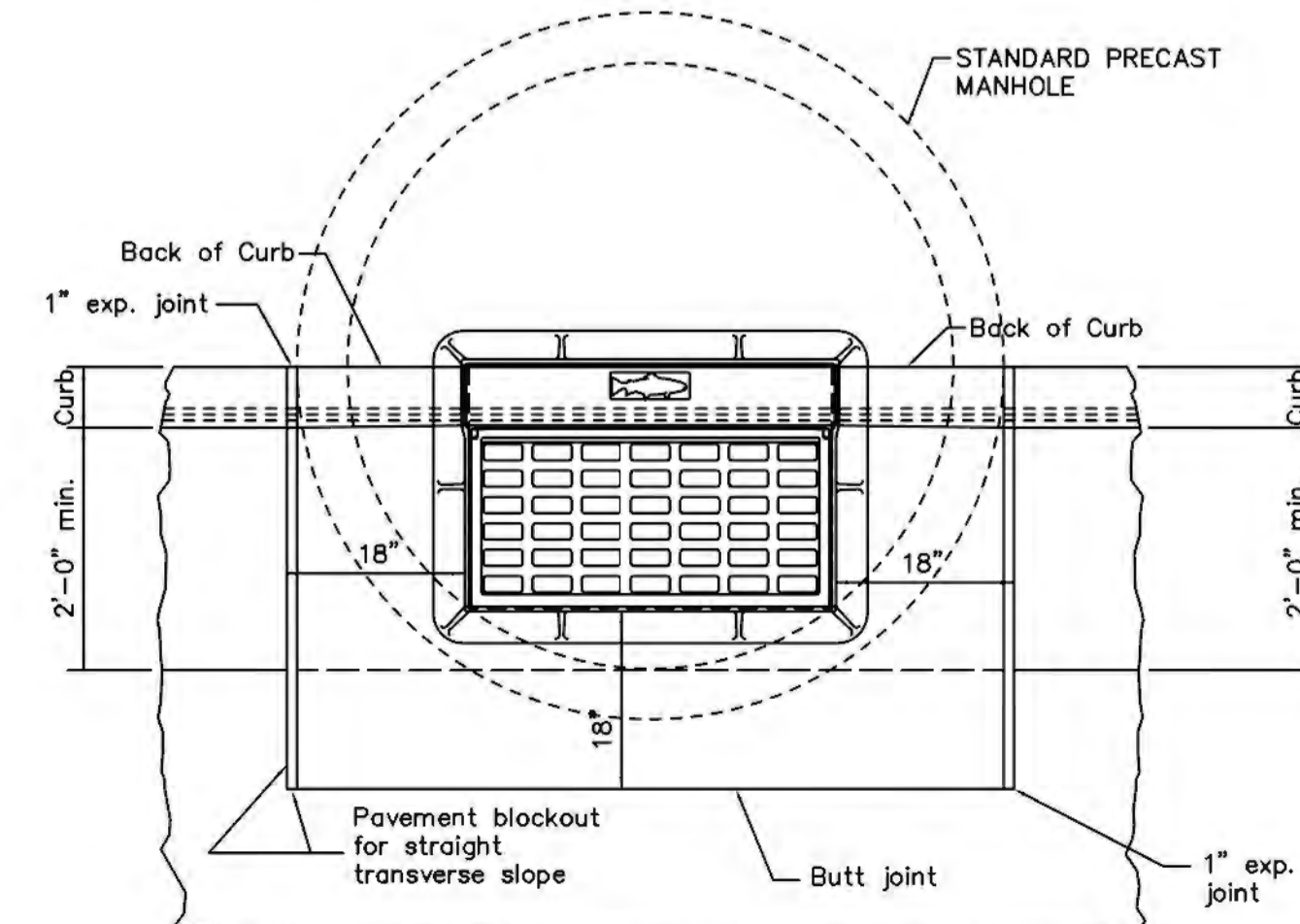
**OPENINGS:** Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

**DOWELS:** Furnish four 1"x18" dowels for concrete pavement or gutter blockout. See ODOT SCD BP-2.2 for dowel details.

**BLOCKOUT:** Pave blockouts with 4000 psi compressive strength concrete in PCC pavement or gutter. Blockouts are paid for as part of the catch basin quantities because of the castings. Cast a 4000 psi compressive strength concrete apron, the size of the 2'-0" gutter blockout, in place in asphalt pavement (no dowels required) with the cost included in the catch basin bid price. No deduction is made in curb quantities.

**PAYMENT:** All materials and labor, including excavation and backfilling, are paid for under Item 611Spec - Manhole Mass7030.

**ADJUSTMENT:** No brick shall be used to adjust castings height. See Adjustment detail this sheet.



MH-MASS7030, MH-MASS7505, MH-MASSV4510

MAXIMUM PIPE SIZE		
BASE I.D.	MIN. "t"	MAX. PIPE SIZE
60"	5"	36"
72"	6"	48"
84"	7"	54"
90"	7 1/2"	60"
96"	8"	66"
108"	9"	72"

**BASE:** Manhole 3 is shown with a monolithic floor and riser which may be cast in one or two operations. A permissible alternate is to cast and ship the floor and barrel separately. Provide openings for inlet and outlet pipes, either when the unit is cast or later, to meet project requirement. Bottom channels may be formed of concrete, precast in the base or field constructed.

**RISER SECTIONS:** Openings for 18" and smaller inlet pipes may either prefabricated or cut in field provided the sides of pipe at the springline do not project into the manhole.

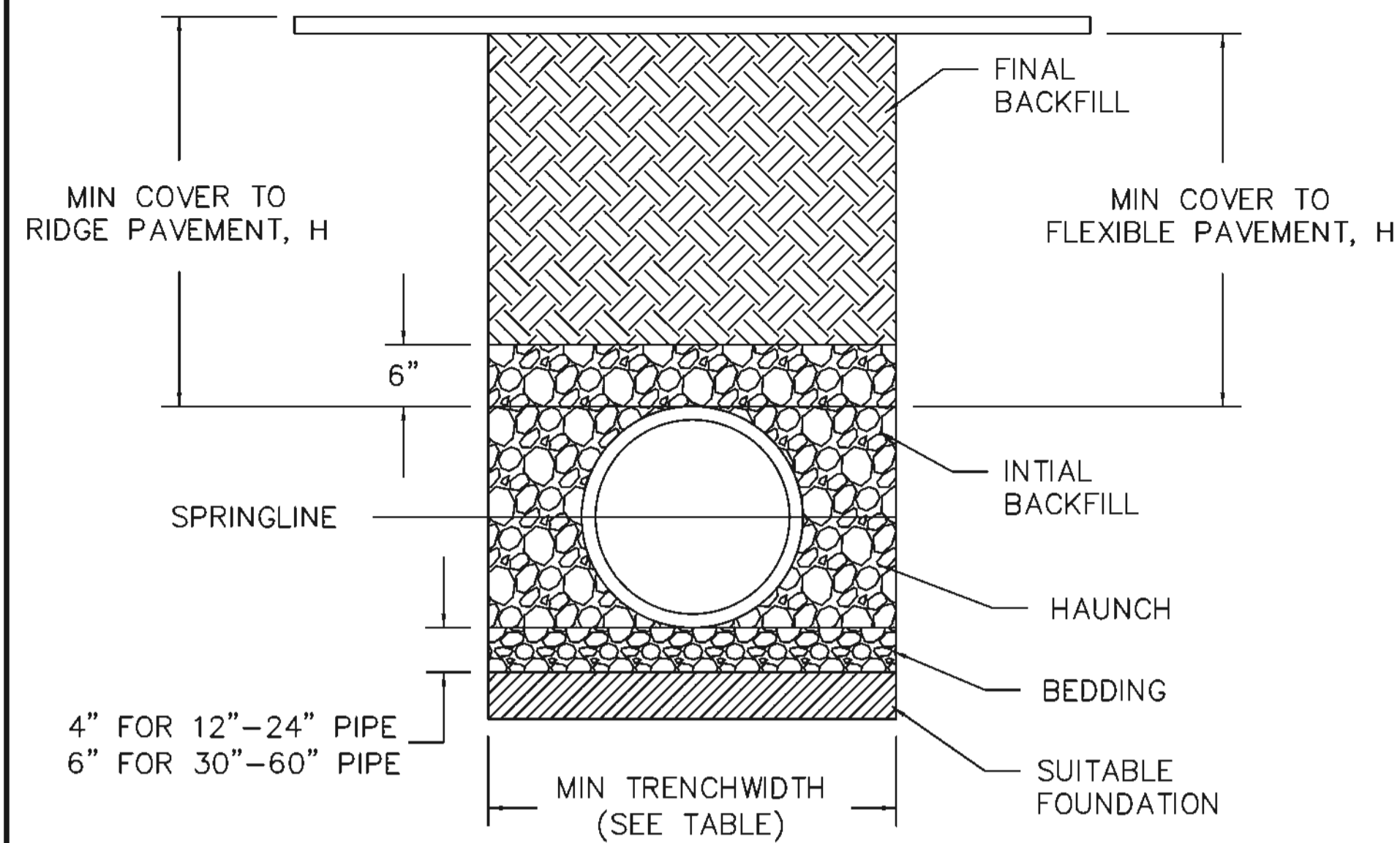
**JOINT SEAL:** Furnish flexible gasket joints per CMS 706.11.

**OPENING:** The maximum pipe opening is the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.

**MATERIALS:** Provide materials for bases and other precast sections, including reinforcement not specified here, that meet the requirements of CMS 706.13

**TOP SLAB REBAR:** Use epoxy coated reinforcing steel within the top slab.





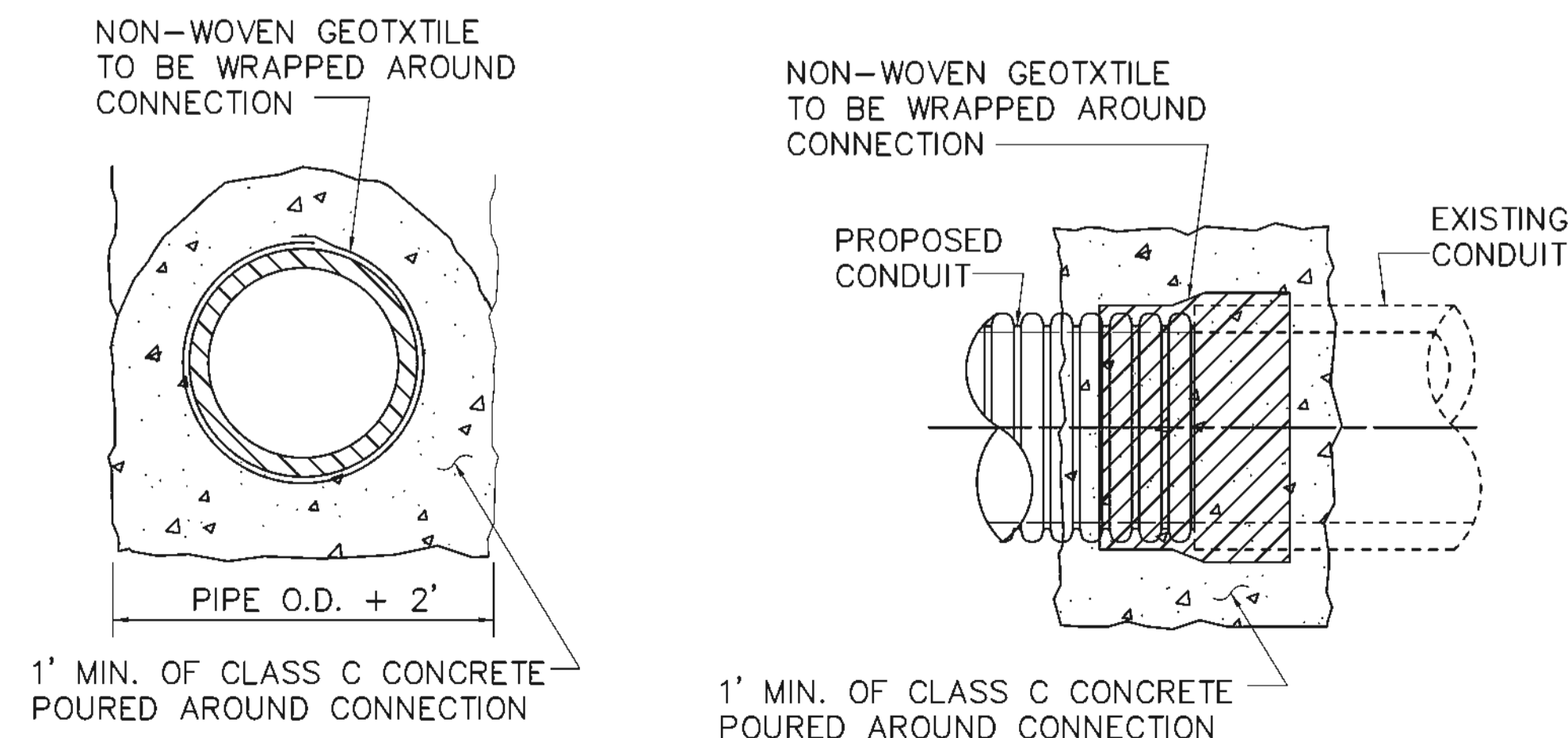
RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21'
6"	23'
8"	26'
10"	28'
12"	30'
15"	34'
18"	39'
24"	48'
30"	56'
36"	64'
42"	72'
48"	80'
54"	88'
60"	96'

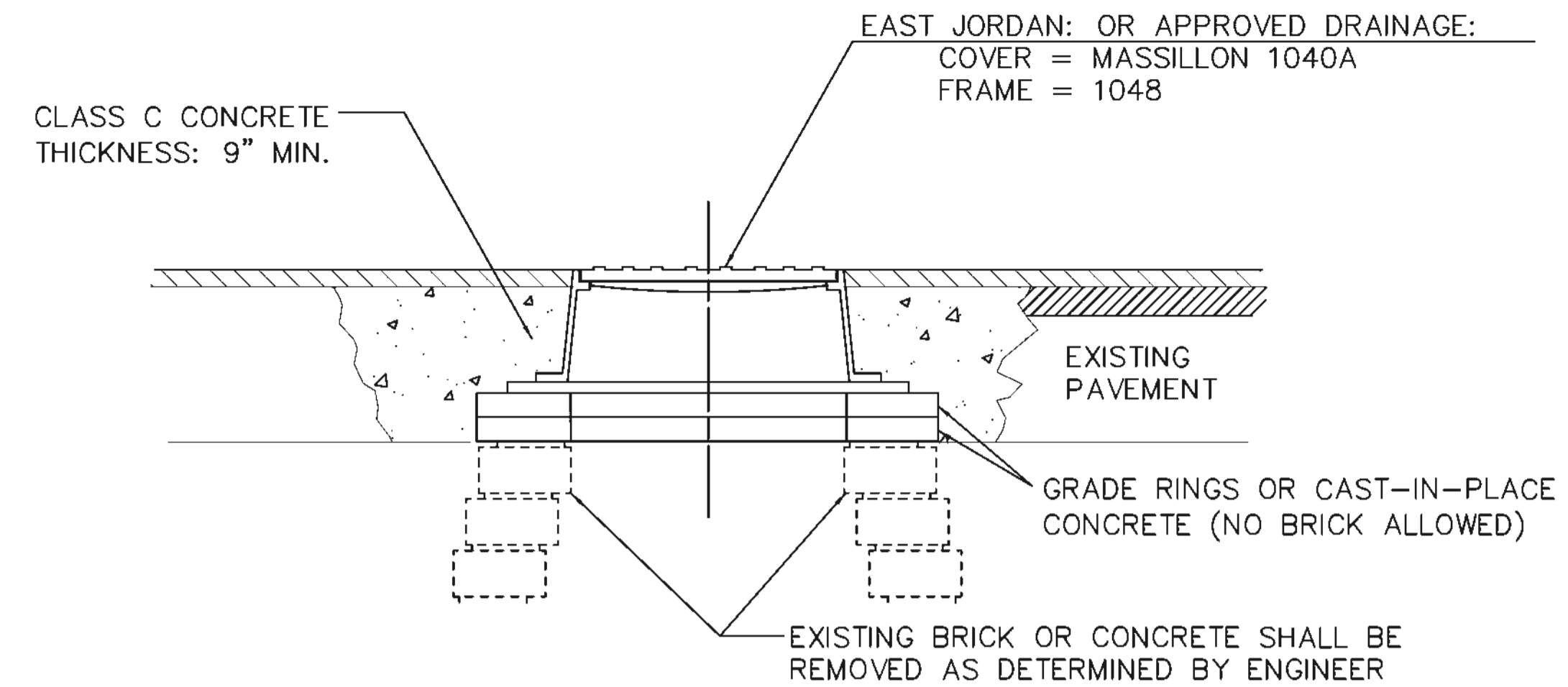
NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE APPLICATION", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, PER MANUFACTURERS AND ODOT ITEM 611 REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO THE GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54" TO 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIDGE PAVEMENT.

TRENCHING DETAIL FOR PIPE



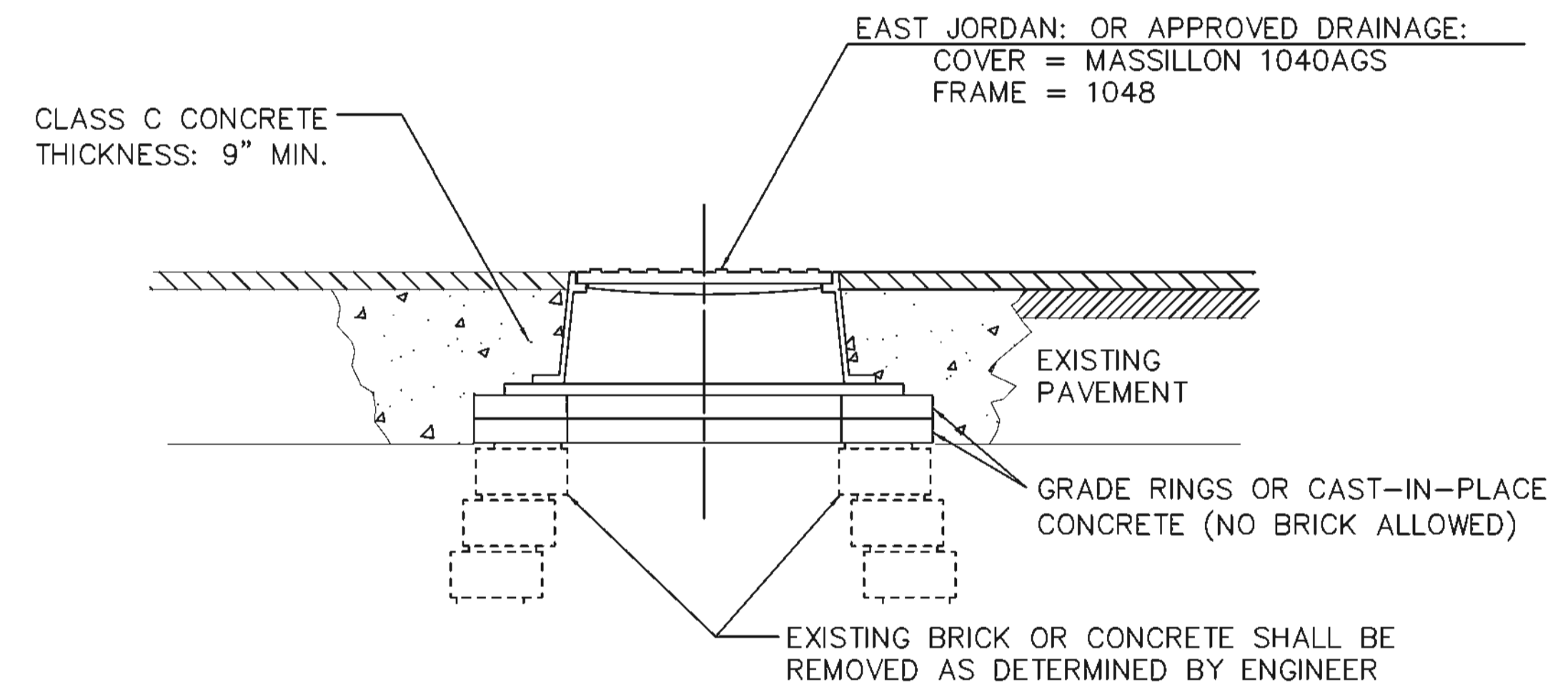
CONCRETE COLLAR



NOTES:

1. ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
2. WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

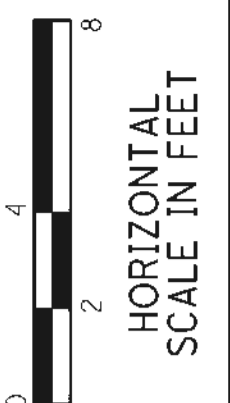
DRAINAGE MANHOLE MASS1048-R



NOTES:

1. ALL CASTINGS, LIDS AND GRATES ARE TO BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR FOR SALVAGE BY THE CITY OF MASSILLON.
2. WORK SHALL INCLUDED ALL REMOVAL AND DISPOSAL OF EXISTING.

SANITARY MANHOLE MASS1048AGS-R



STA Main/Tremont RAB  
 Drainage Details  
 City of Massillon  
 Stark County, Ohio

COMPANY



DESIGNER

FW

REVIEWER / DATE

AP 3/6/2025

PROJECT ID

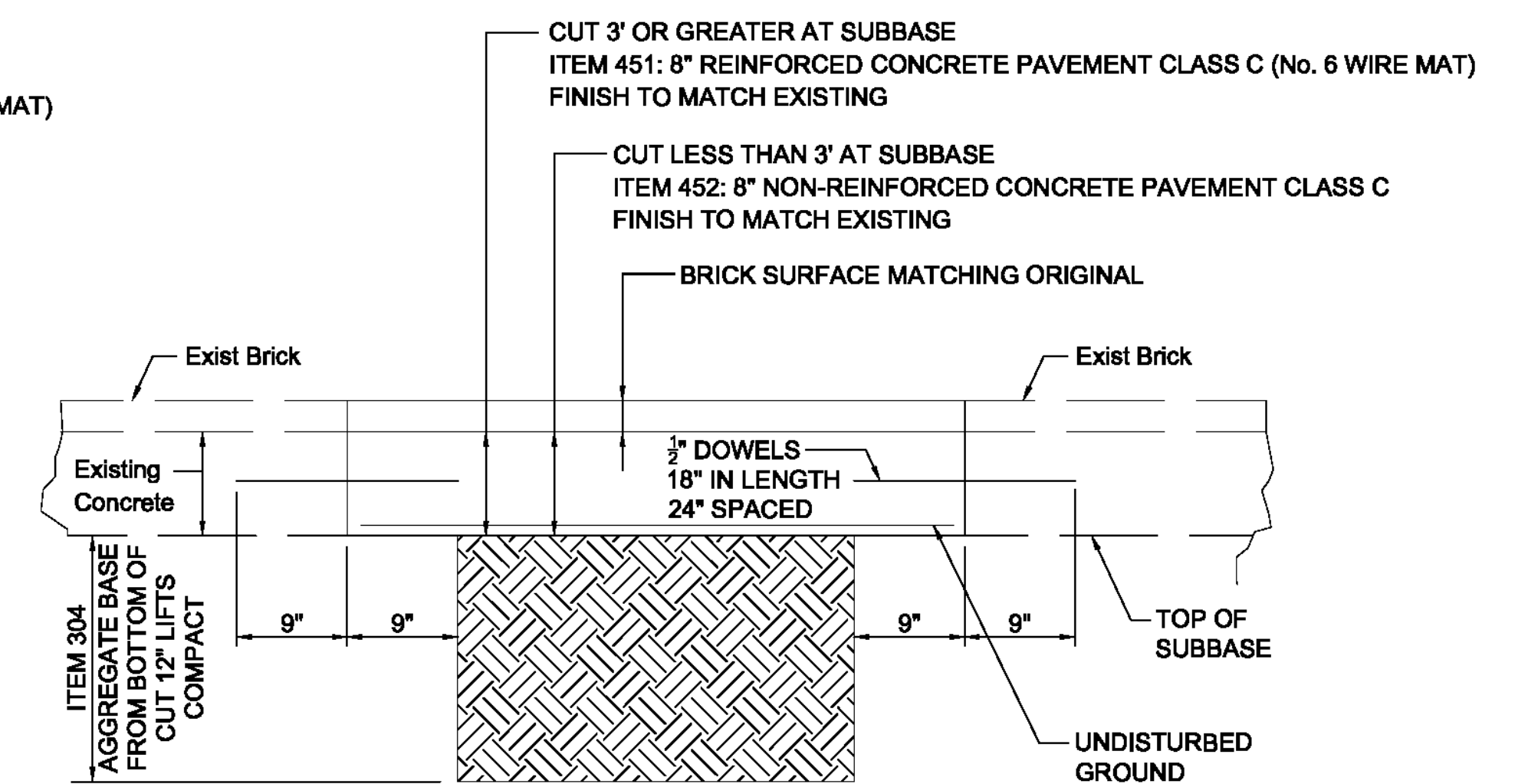
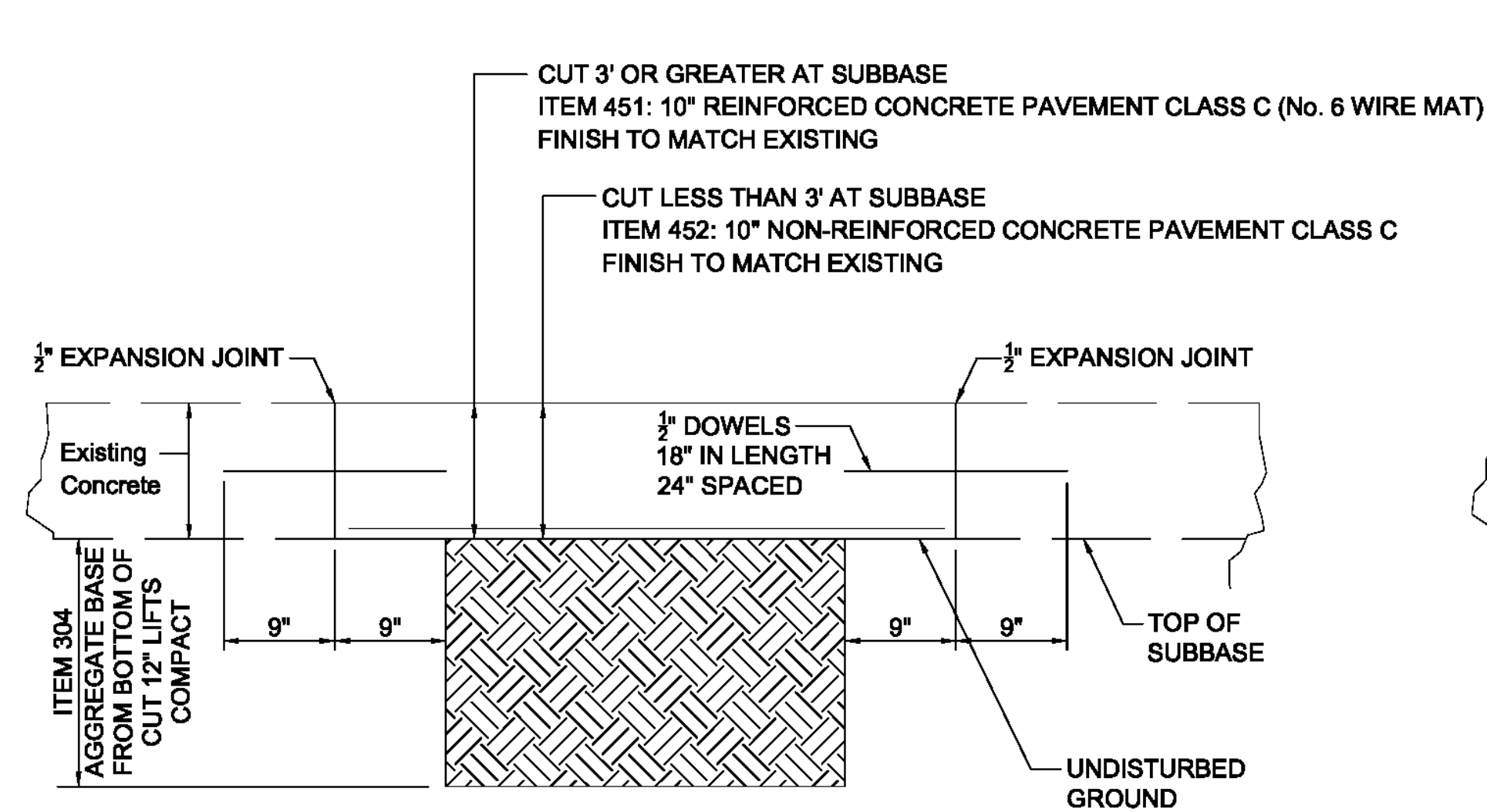
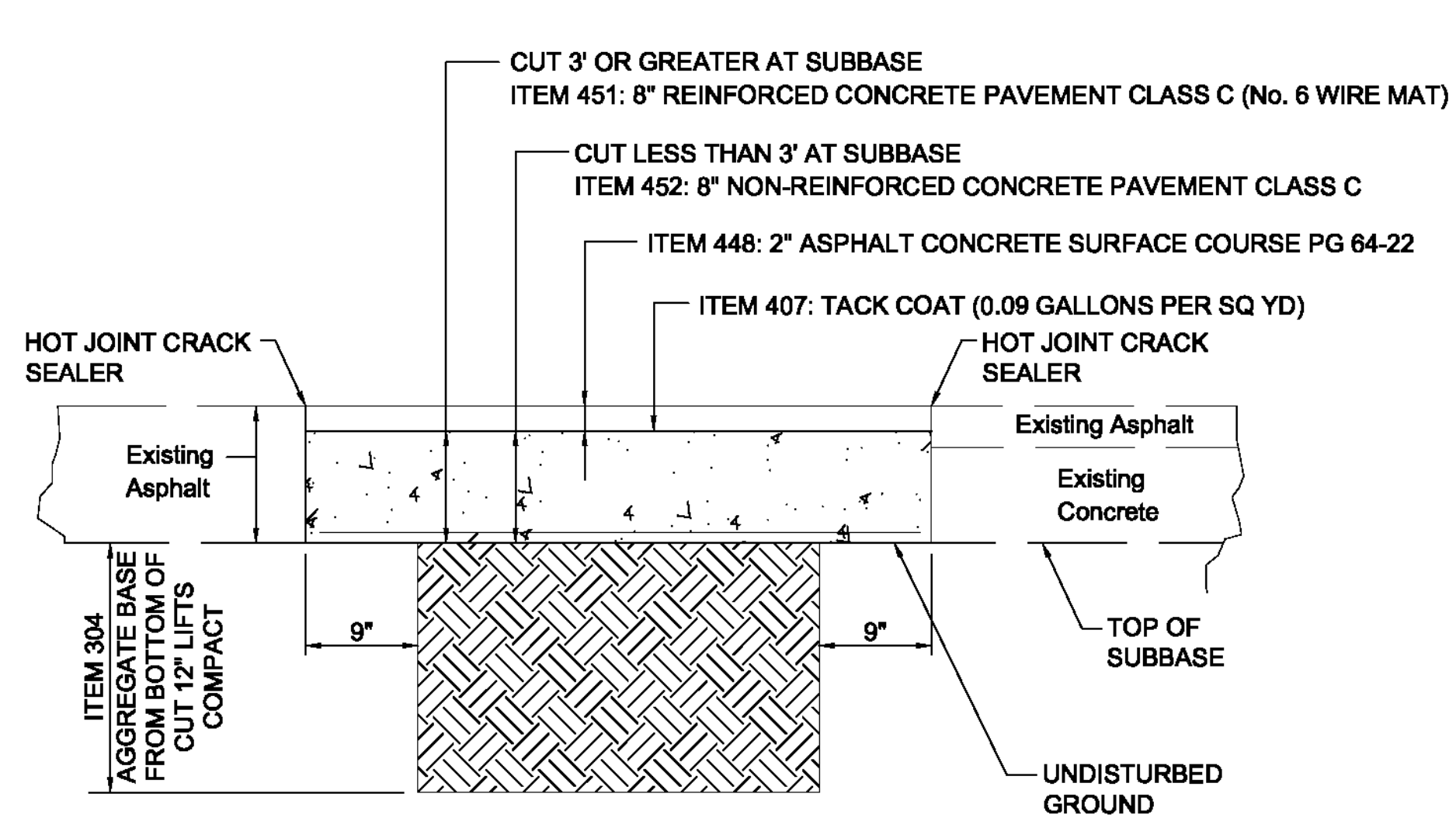
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SHEET

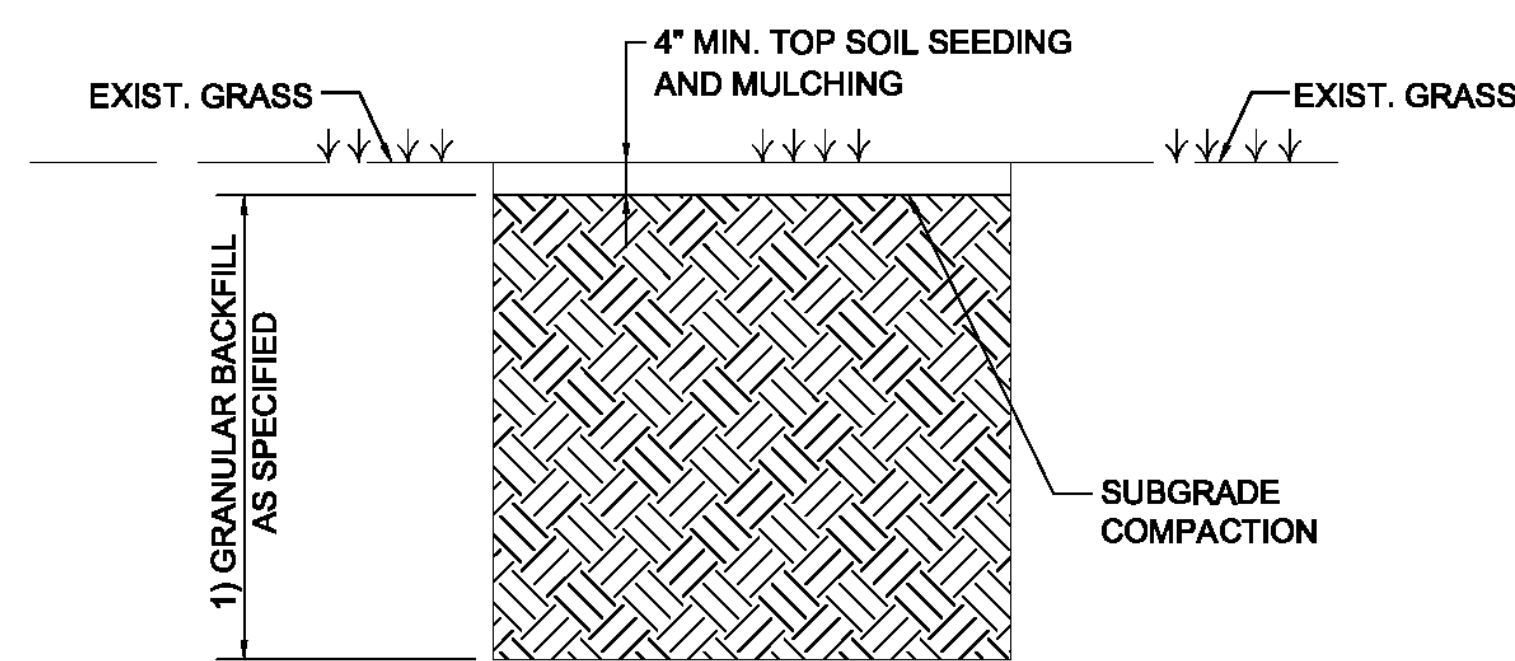
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SHEET

49

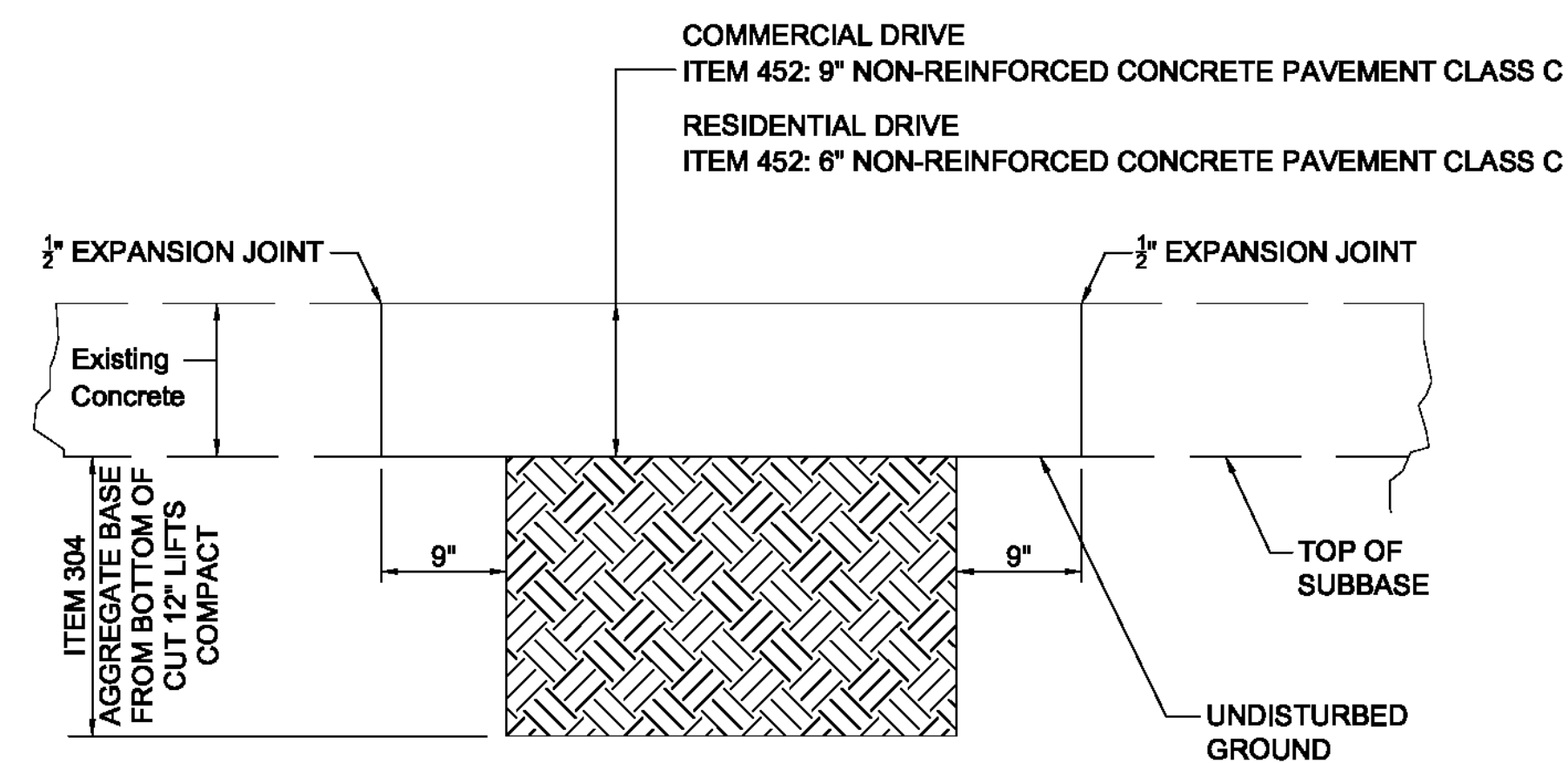


ROADWAY RESTORATION DETAIL

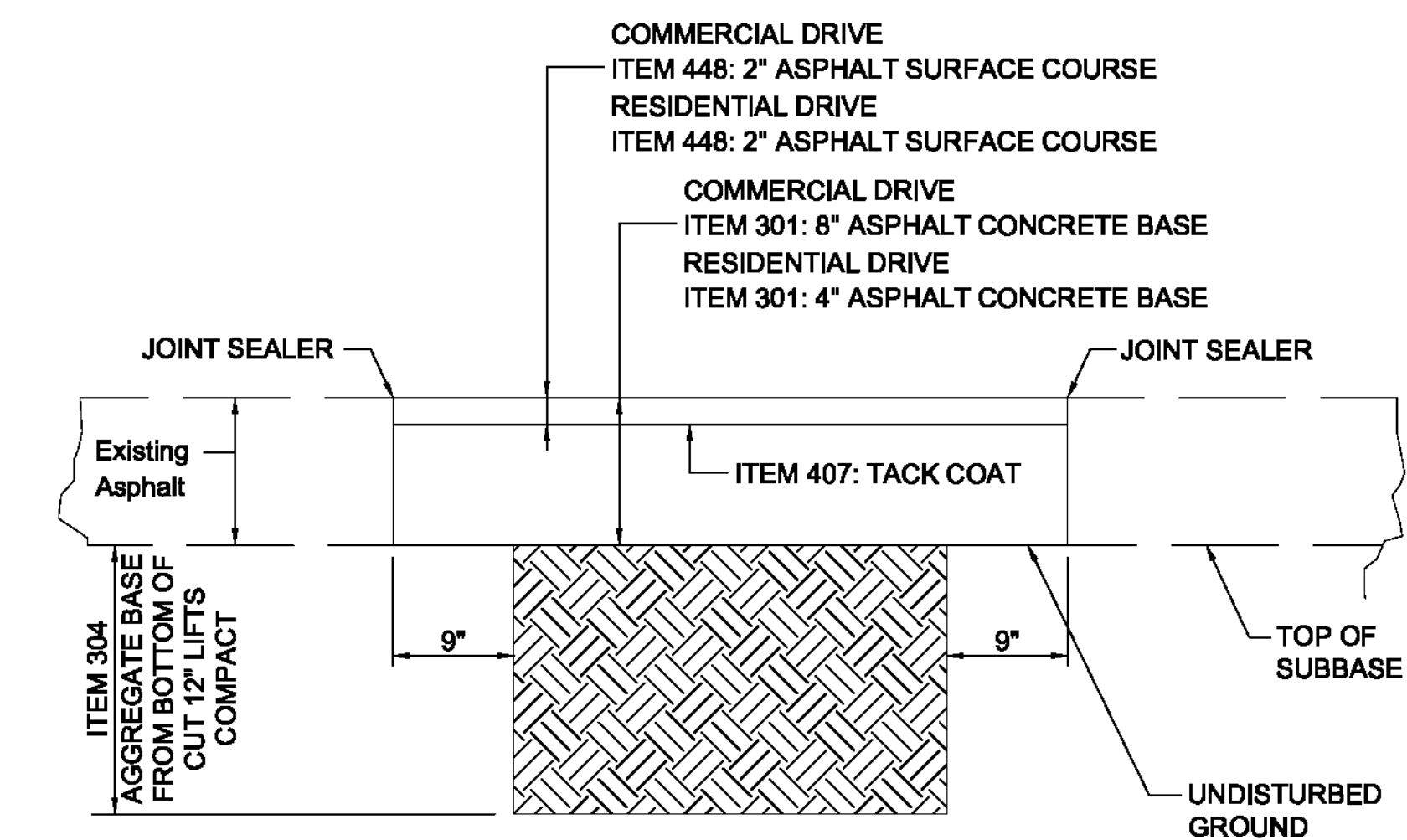


NOTES  
 1) EXCAVATED MATERIAL MAY BE USED IF FOUND TO BE IN ACCEPTABLE CONDITION AS DETERMINED BY THE CITY ENGINEER.

LAWN RESTORATION DETAIL



CONCRETE DRIVEWAY RESTORATION DETAIL

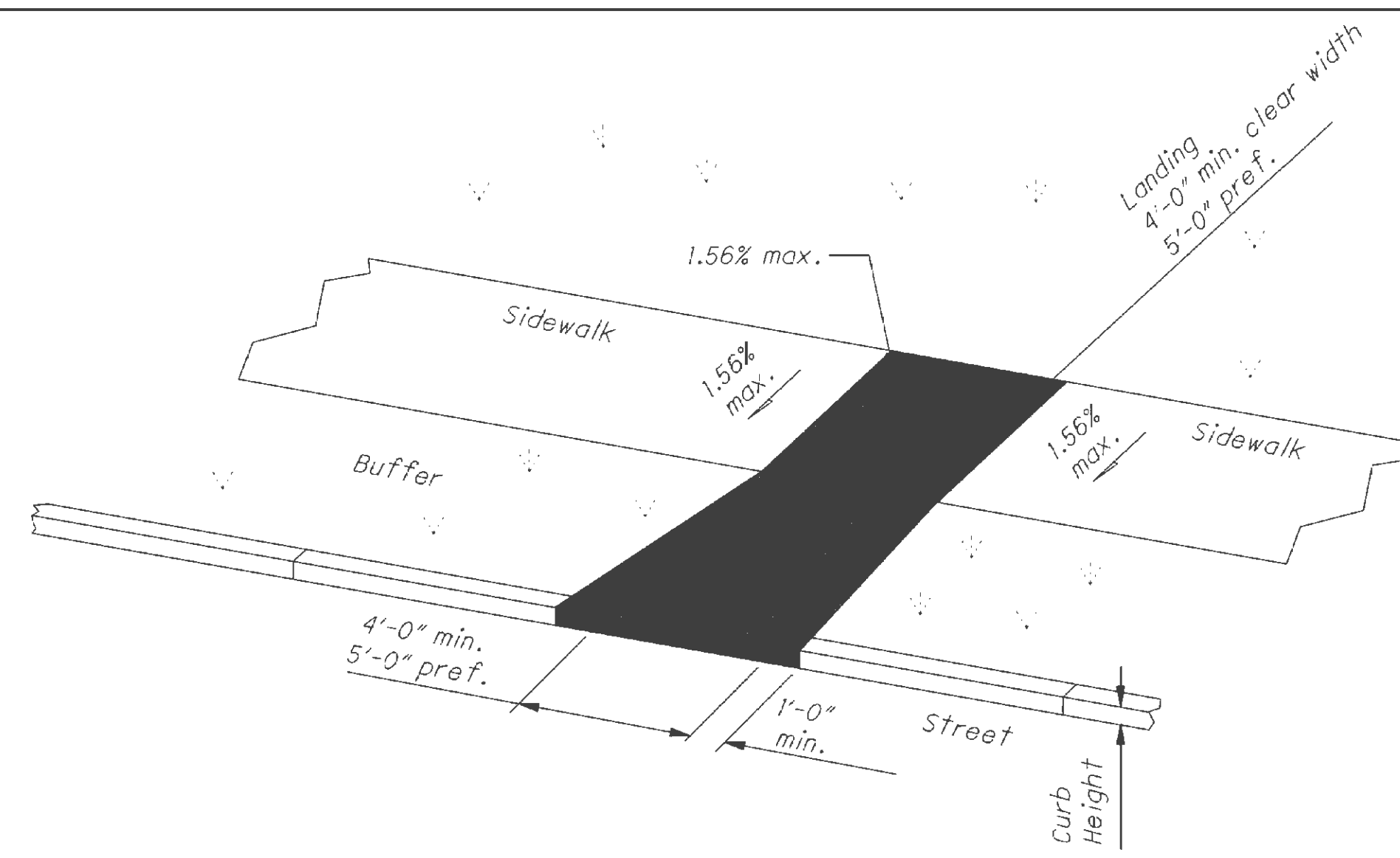
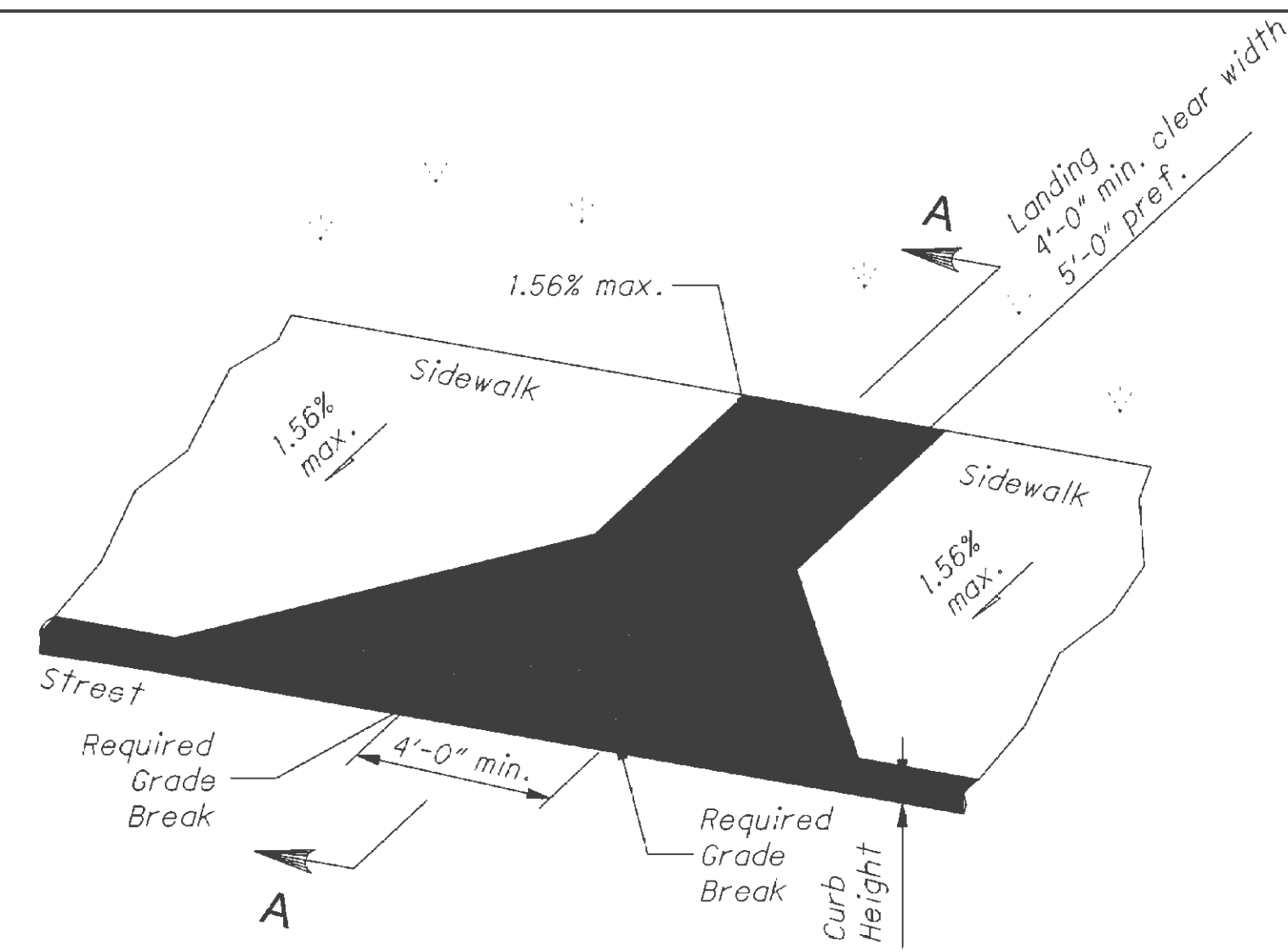


ASPHALT RESTORATION DETAIL  
 REQUIRES CITY ENGINEER APPROVAL BEFORE USE

NOTE:

- IF EXISTING CONCRETE WALK, CURB OR DRIVE IS DISTURBED ENTIRE SLAB FROM EXISTING JOINTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE DETERMINED BY CITY ENGINEER.
- ANY ABANDONED EXISTING UTILITY LINES WITHIN THE TRENCH REMOVED SHALL BE INCIDENTAL TO THE INSTALLATION OF THE PERTINENT ITEM.
- ANY SERVICES DISTURBED DO TO TRENCHING SHALL BE AT THE CONTRACTORS EXPENSIVE FOR RECONNECTION UNLESS IT IS IN DIRECT CONFLICT WITH THE PERTINENT ITEM.
- ALL LABOR AND MATERIALS FOR TO PERFORM THE TRENCHING SHALL BE INCLUDED IN THE PERTINENT ITEM.

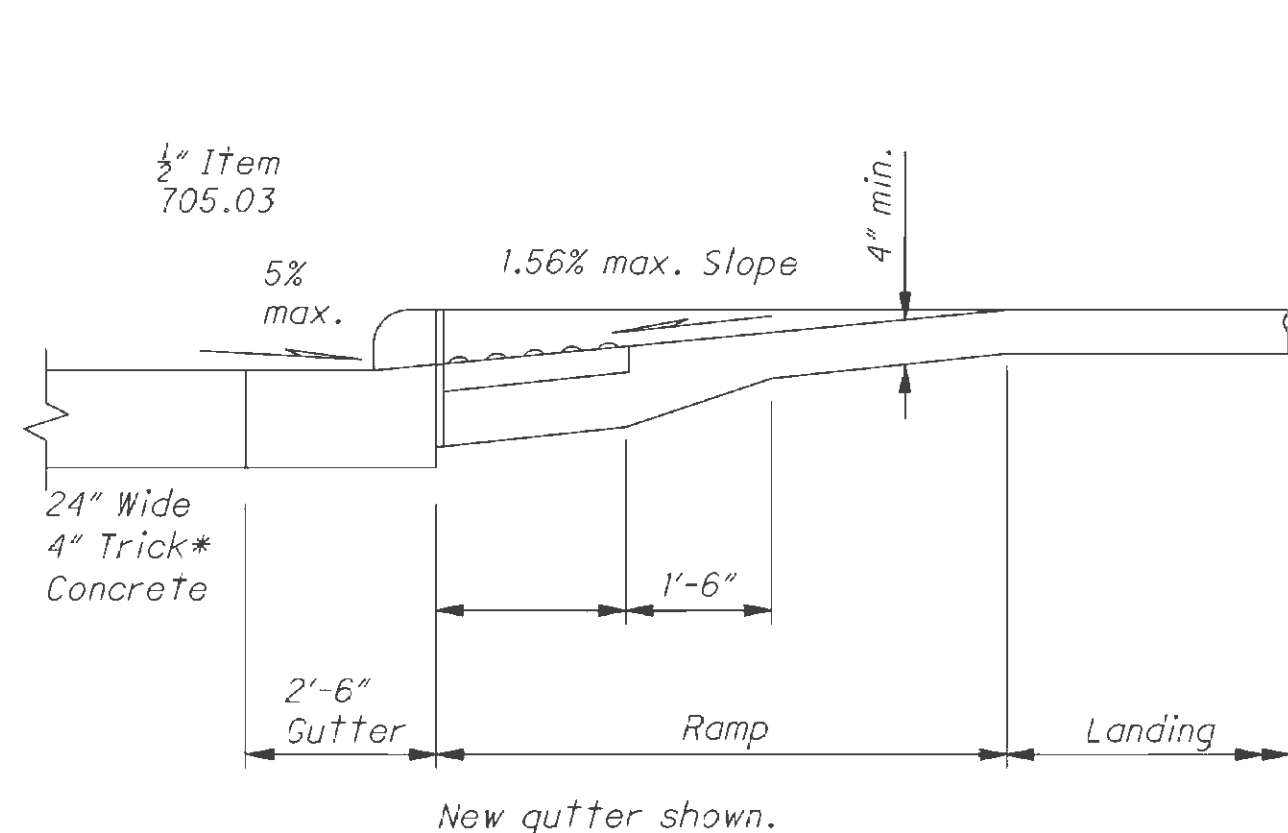




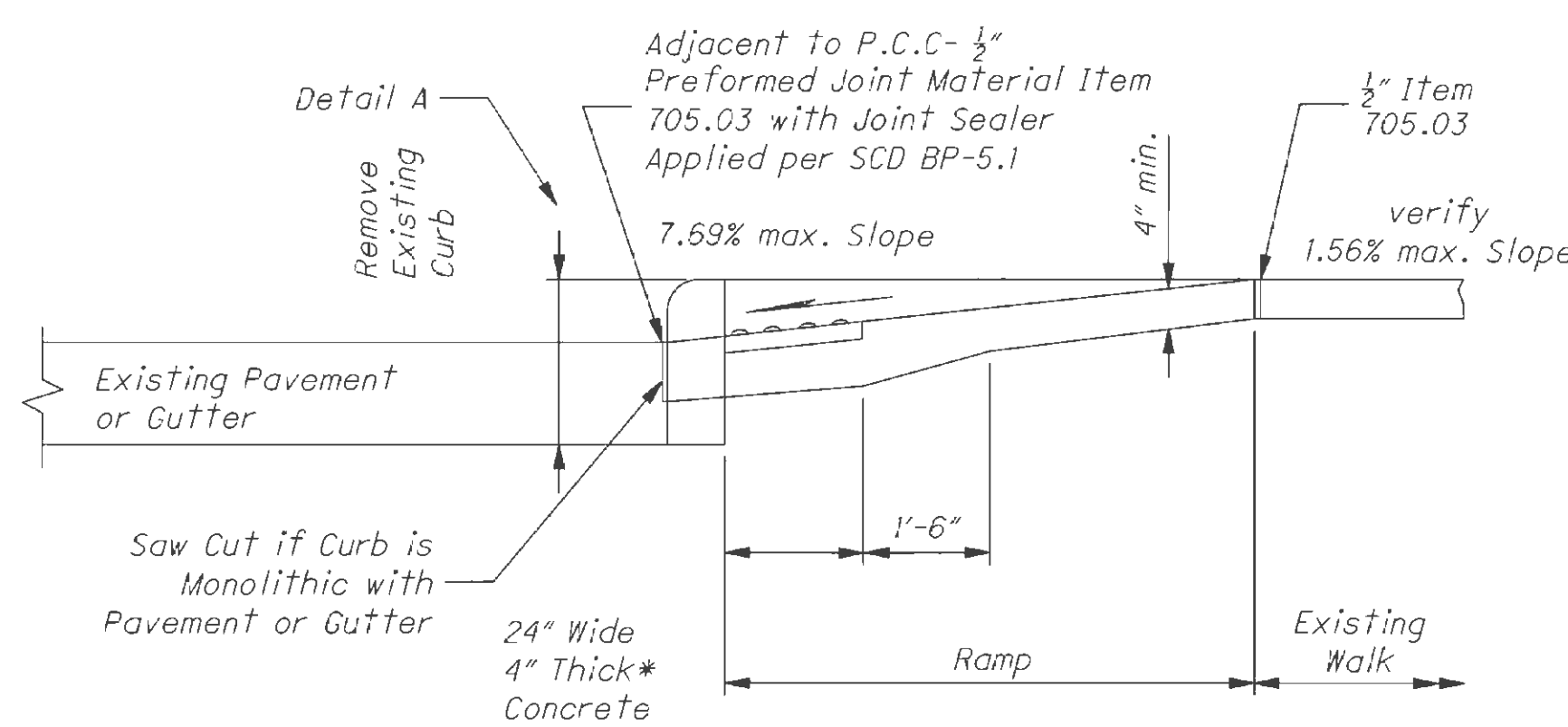
Type A1 (Perpendicular with flared sides)

Type A2 (Perpendicular with returned sides)

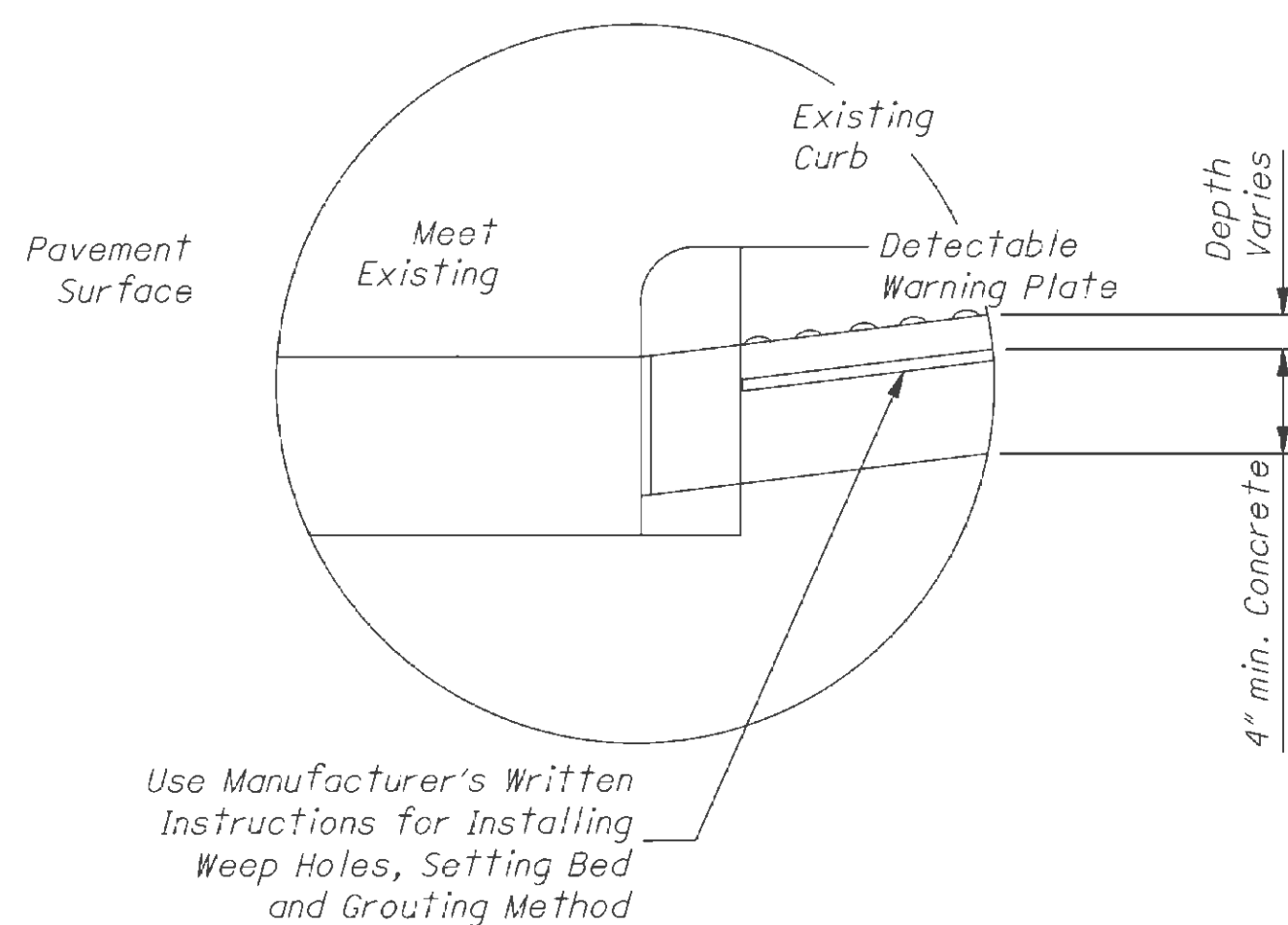
PERPENDICULAR CURB RAMP DETAILS



SECTION A-A  
NORMAL DETAIL



SECTION A-A  
EXISTING DETAIL



DETAIL A

DETECTABLE WARNING NOTES

**GENERAL:** Detectable Warnings are a distinctive surface pattern of truncated domes which are detectable by cane or underfoot to alert people with vision impairments of their approach to streets and hazardous drop-offs.

**PLACEMENT:** Detectable warnings are to be installed at any location where pedestrians might cross paths with vehicular traffic lanes, such as the base of curb ramps or at blended curbs. A 24" strip of domes is to be installed for the full width of the ramp or walk. Typical street corner placement locations are shown on this sheet.

Some detectable warning products require a concrete border for proper installation. The concrete border should not exceed 2". Where the back of curb edge is tooled to provide a radius, the border dimension should be measured from the end of the radius.

The depth of concrete underneath detectable warning products shall be a minimum of 4". See DETAIL A.

**ALIGNMENT:** Truncated domes should be aligned with the primary direction of the ramp as shown on the DETECTABLE WARNING ALIGNMENT Detail to direct pedestrians toward the landing. Normally the detectable warnings should be flush with the back of curb, but for skewed conditions see

DETECTABLE WARNING ALIGNMENT Detail. For non-standard layouts, detectable warning materials may have to be mitered placed segmentally.

**PRODUCTS & COLORS:** Color of the detectable warnings should contrast with surrounding concrete walk and ramp. Black is not an acceptable color. Approved products and guidance on color may be found on the Office of Roadway Engineering Service's Detectable Warnings Approved List. Install products as per manufacturer's printed instructions.

NOTES CONTINUED

The Running slope of the curb ramp shall be a 7.69% maximum or flatter in existing sidewalks, where the maximum ramp slope is not feasible due to site constraints (e.g. utility poles or vaults, right-of-way limits) it may be adjusted as follows:

- A) 10:1 for a max. rise of 6";
- B) 8:1 for a max. rise of 3";
- C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible

To prevent chasing the grade indefinitely, the transition from existing sidewalk to the shaded curb ramp area is not required to exceed 15 feet in length.

While ramps may be skewed to the crosswalk, the entire lower landing area must fall within the cross walk that the ramp serves and cannot be located in the traveled lane of opposing traffic.

The counter slope of the gutter or street at the foot of a curb ramp, landing, or blended transitions shall be 5% or flatter

The bottom edge of the ramp shall change planes perpendicular to the landing.

The edge of the curb shall be flush with the edge of the adjacent pavement and gutter and surface slopes that meet grade breaks shall also be flush.

Where pedestrian street crossings are without yield or stop control conditions, or at a traffic signal that is designed for green phase and vehicles do not slow to navigate the intersection, the maximum cross slope at the edge of the asphalt pavement and gutter may be increased as follows:

- D) 5% maximum cross slope at street crossings without yield or stop control
- E) Cross slope may match grade of street asphalt edge profile at Mid-block Street Crossings

A 4' minimum continuous clear width, exclusive of the width of any curb is required for a pedestrian access route. Ramp landings shall be 4' min. x 4' min. with a 1.56% or flatter cross slope and running slope.

Provide 24" wide level strip if the algebraic difference between the ramp slope and the street exceeds 11%.

**DETECTABLE WARNINGS:** Install Detectable Warnings on each curb ramp with approved materials, as shown on Sheet ... Install these proprietary products as per manufacturer's written instructions

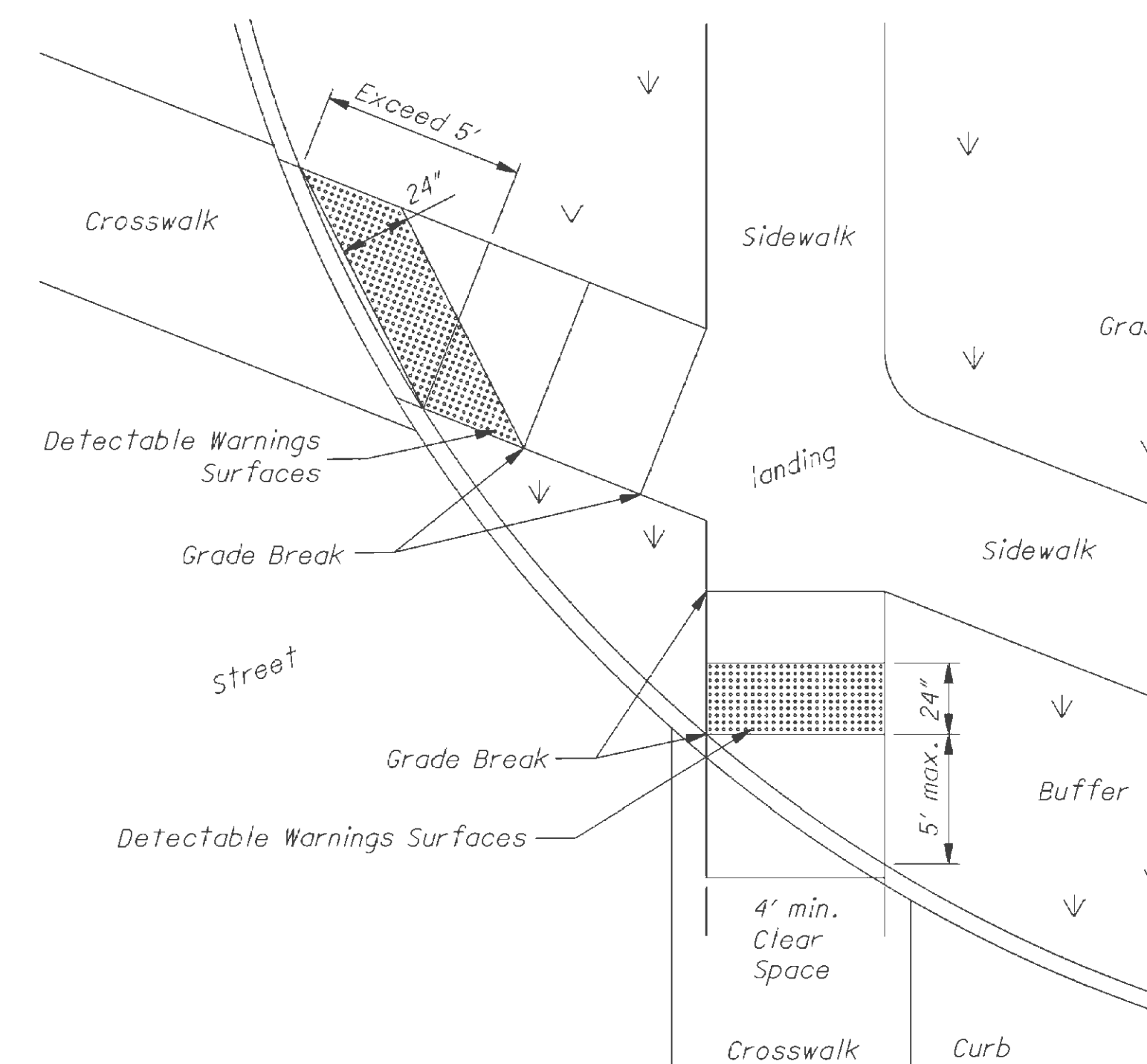
**BLENDED TRANSITIONS:** Blended Transitions do not require a landing since the slope shall not exceed 5%.

**DRAINAGE:** Contractor is to ensure the base of each constructed curb ramp allows for proper drainage, without exceeding allowable cross slope or ramp slopes. Vertical change in level exceeding 1/8" between the pavement and gutter, and 2) gutter and ramp, are not allowed.

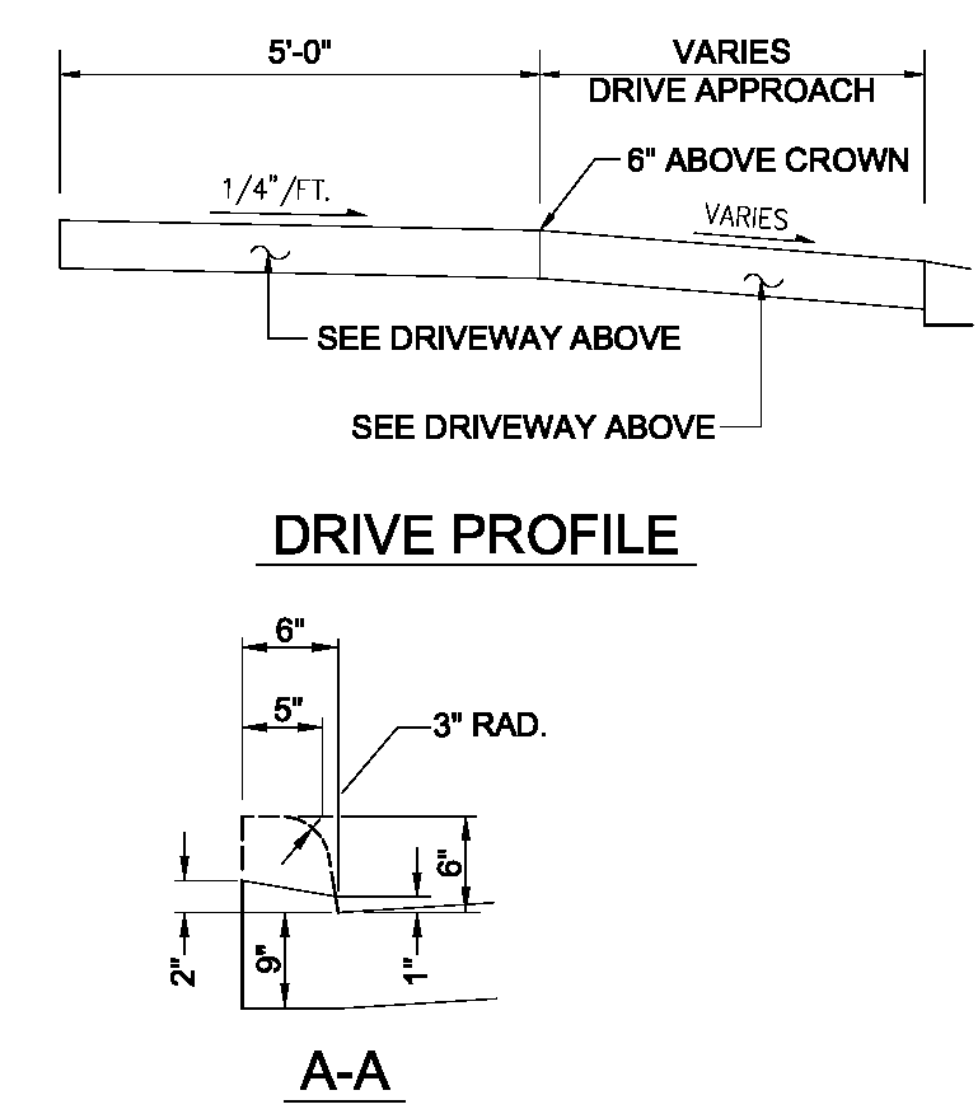
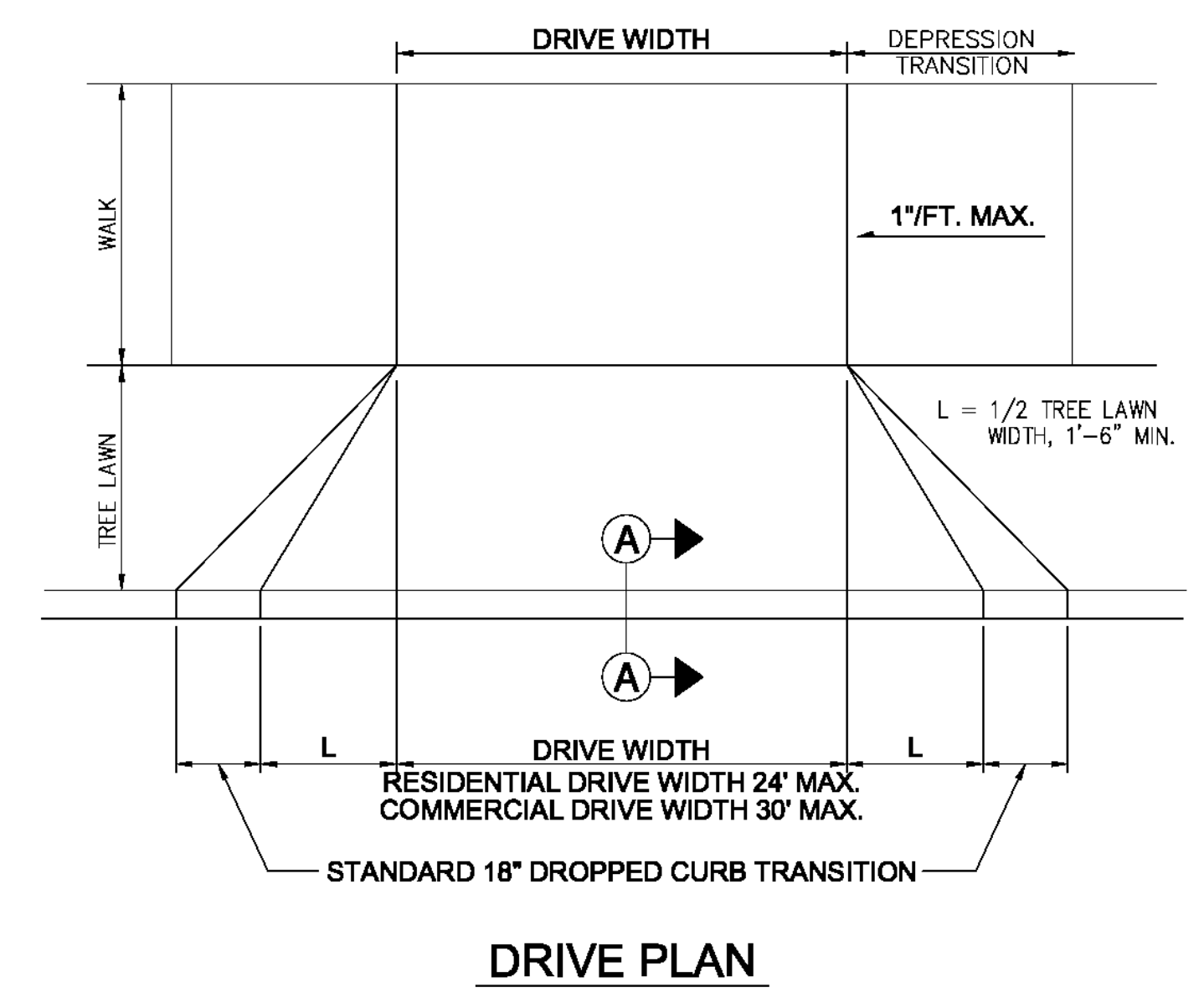
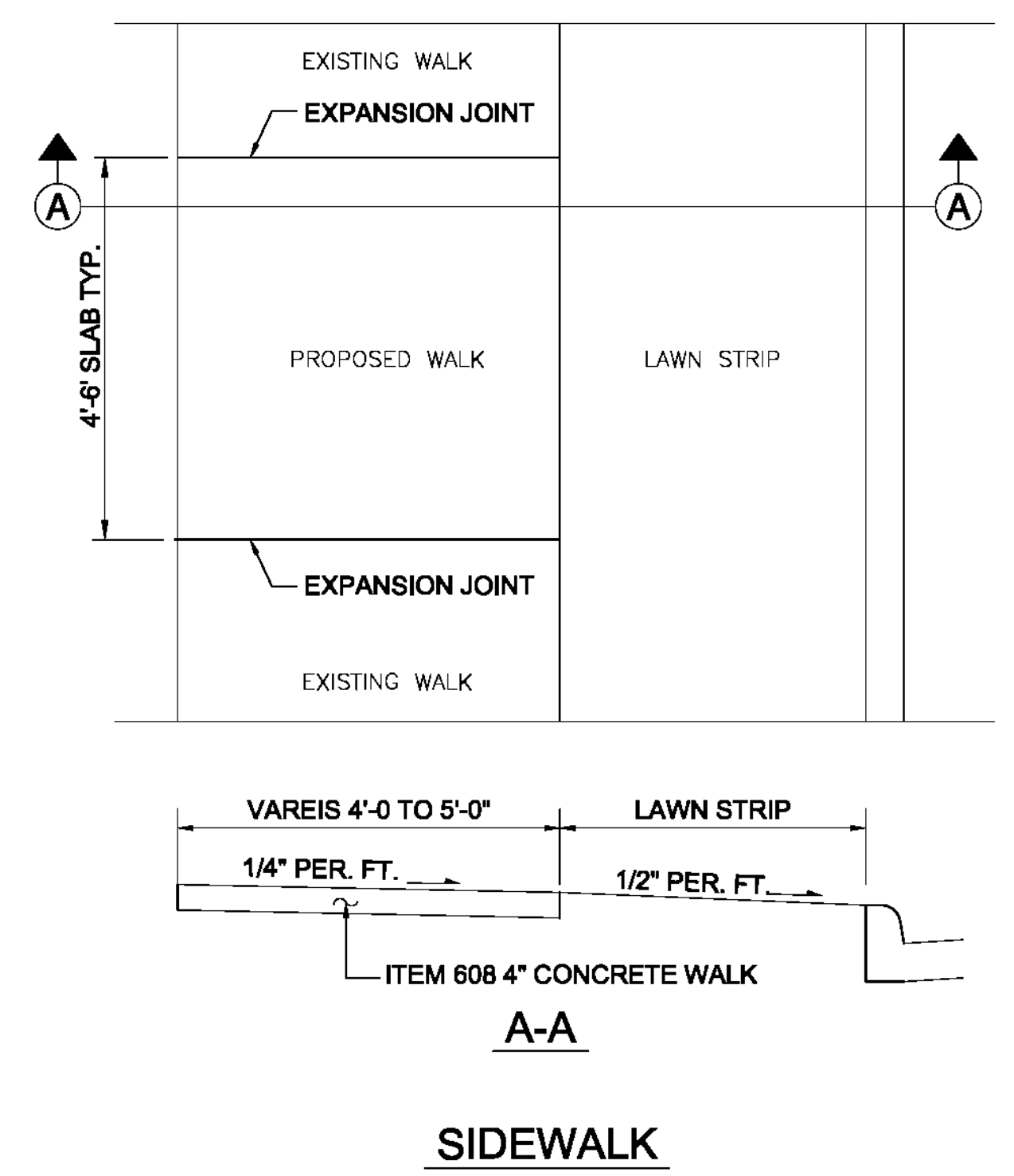
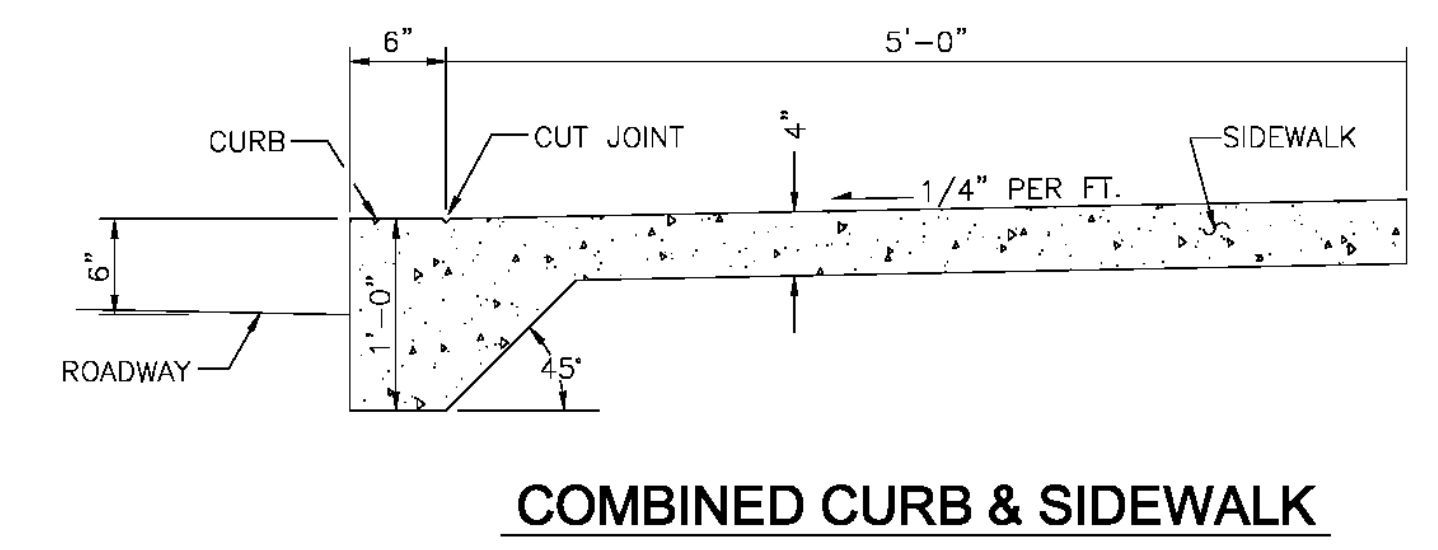
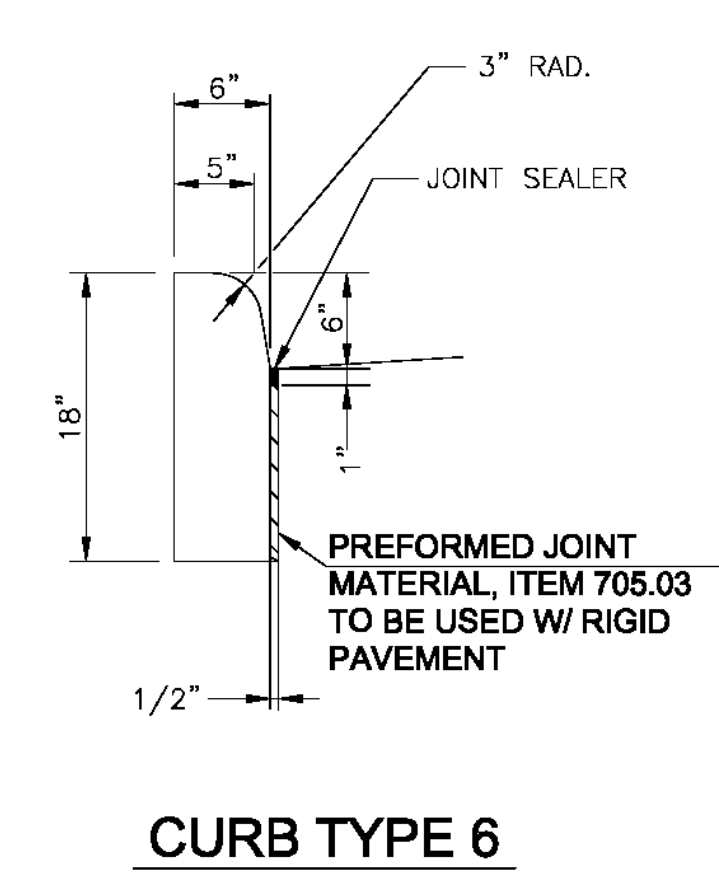
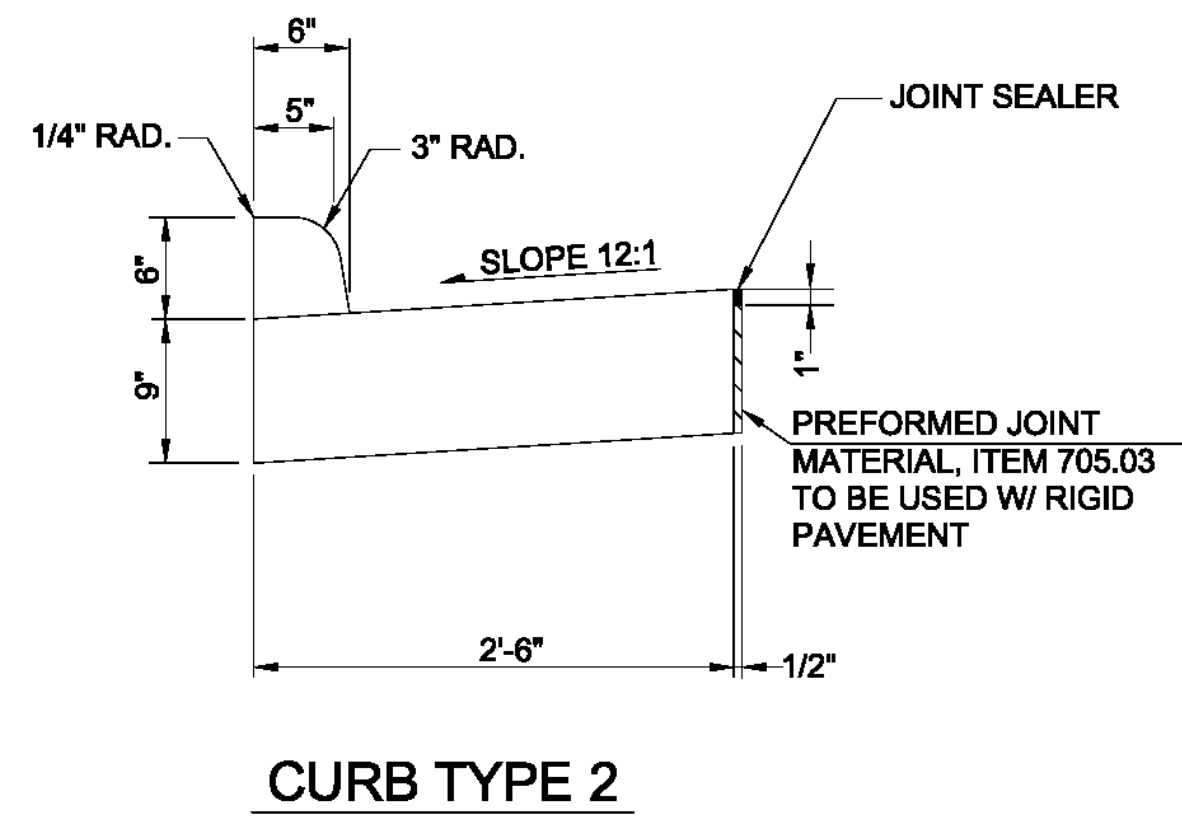
**SURFACE TEXTURE:** Texture concrete surfaces by coarse brooming transverse to the ramp slopes to be rougher than the adjacent walk.

**JOINTS:** Provide expansion joints in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. Provide a 1/2" Item 705.03 expansion joint filler around the edge of ramps built in existing concrete walks. Lines shown on this drawing indicate the ramp edges and slope changes, and do not necessarily indicate joint lines.

**SLOPES:** Where 7.69% maximum and 1.56% maximum slopes are listed, ramps shall be considered compliant for payment where the as-built slopes are 8.33% maximum and 2% maximum, respectively.

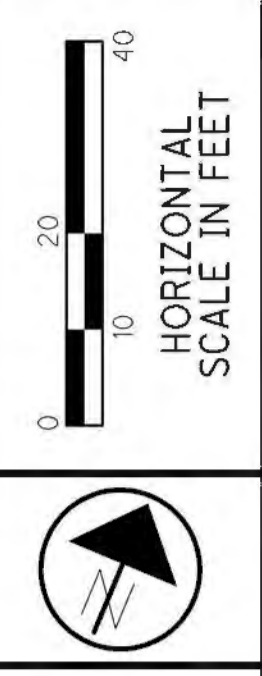
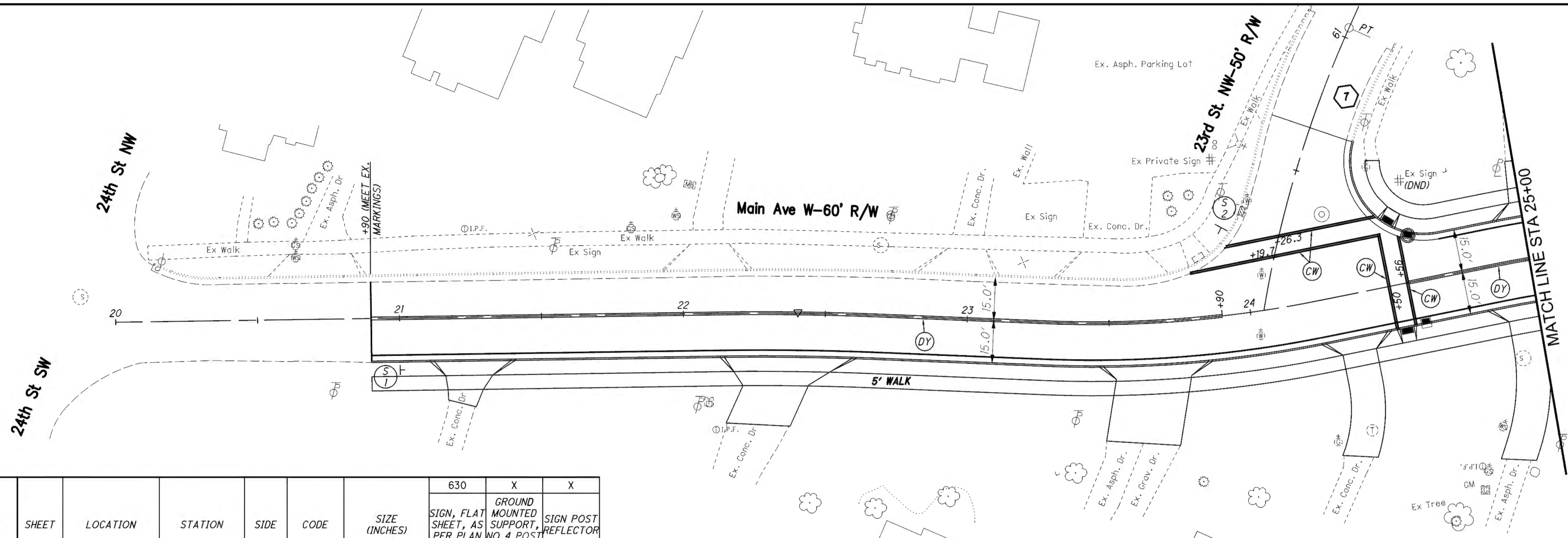


DETECTABLE WARNING ALIGNMENT  
FOR DIRECTIONAL CURB RAMPS



**NOTE**  
CONCRETE SHALL BE 4000 PSI CLASS C

**DRIVEWAY APPROACH DETAIL**



REF.	SHEET	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	X	X
							SIGN, FLAT SHEET, AS PER PLAN	GROUND MOUNTED SUPPORT, NO 4 POST TYPE S	SIGN POST REFLECTOR
							EACH	FT	EACH
S-1	47	Main Ave W	19+15	RT	W2-6-30	30" X 30"	6.25	17.2	
					W16-17P	24" X 12"	2.00		
					W13-1P-24	24" X 24"	4.00		
S-2	47	23rd St NW	60+25	LT	R1-1-36	36" X 36"	9	13.5	
S-3	48	Main Ave W	25+25	LT	R2-1-24	30" X 24"	5.0	13	
S-4	48	Main Ave W	25+65	RT	W2-6-30	30" X 30"	6.25	14.8	
					W16-8P	36" X 8"	2.00		
S-6	48	Main Ave W	26+37	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-7	48	Main Ave W	26+37	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-8	48	Main Ave W	26+35	LT	D1-ID	66" X 12"	5.5	23	
S-9	48	Main Ave W	26+81	RT	R6-1R-36	36" X 12"	3.00	21.2	
					R6-4-30	30" X 24"	5.00		
S-10	48	Main Ave W	27+14	LT	R6-1R-36	36" X 12"	3.00	21.2	
					R6-4-30	30" X 24"	5.00		
S-11	48	Main Ave W	27+63	LT	D1-ID	66" X 12"	5.5	23	
S-12	48	Main Ave W	27+64	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-13	48	Main Ave W	27+67	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-14	48	Main Ave W	27+74	RT	R4-7-24	24" X 30"	5.00	13	
S-15	48	Main Ave W	28+25	LT	W2-6-30	30" X 30"	6.25	14.8	
					W16-8P	36" X 8"	2.00		
S-16	48	Main Ave W	26+10	RT	R2-1-24	30" X 24"	5.0	13	
S-17	48	Main Ave W	19+15	RT	W2-6-30	30" X 30"	6.25	17.2	
					W16-17P	24" X 12"	2.00		
					W13-1P-24	24" X 24"	4.00		
S-18	48	Tremont Ave NW	10+23	LT	R6-1R-36	36" X 12"	3.00	21.2	
					R6-4-30	30" X 24"	5.00		
S-19	48	Tremont Ave NW	10+68	LT	D1-ID	78" X 12"	6.50	23.0	
S-20	48	Tremont Ave NW	11+71	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-21	48	Tremont Ave NW	11+67	LT	R1-2-36	36" X 36" X 36"	7.80	26.2	2
S-22	48	Tremont Ave NW	10+95	LT	R4-7-24	24" X 30"	5.00	13	
S-23	48	Tremont Ave NW	11+50	LT	W2-6-30	30" X 30"	6.25	14.8	
					W16-8P	XX" X 8"	2.00		
S-24	48	Tremont Ave NW	12+12	RT	R2-1-24	30" X 24"	5.0	13	
S-25	48	Tremont Ave NW	18+00	LT	W2-6-30	30" X 30"	6.25	17.2	
					W16-17P	24" X 12"	2.00		
					W13-1P-24	24" X 24"	4.00		
TOTAL CARRIED TO GENERAL SUMMARY							233	438.1	6

REF.	STATION		SIDE	644	644	644	644	644	644	644
				CROSSWALK	TRANSVERSE/DIAGONAL LINE	EDGE LINE, 6" (WHITE)	EDGE LINE, 6" (YELLOW)	CENTER LINE	DOTTED LINE, 6"	PAVEMENT MARKING, MISC., YIELD LINE
				FT	FT	FT	FT	FT	FT	FT
MAIN AVE W										
DY	20+90	23+90	CL					300		
CW	23+88	24+53	LT	144						
CW	24+53	24+53	RT/LT	76						
DY	24+56	25+78	CL					122		
DY	27+94.5	29+35	CL					140.5		
DY	29+75	30+00	CL					25		
EY	25+78	26+44.5	LT				69			
EY	25+78	26+44.5	RT				69			
EY	27+57	27+94.5	LT				39			
EY	27+57	27+94.5	RT				39			
TY	25+78	26+06.8	RT/LT		10					
TY	27+76	27+94.5	RT/LT		10					
	26+42		RT							12
	27+62		LT							13
ROUNDBOUT										
EW	0+36	0+66	RT			30				
DW	1+92	2+17	RT					25		
EW	2+59.7	2+79	RT			20				
DW	0+66	0+97.6	RT					32		
EW	2+17	2+47.5	RT			31				
DW	2+79	3+08	RT					29		
TREMONT AVE NW										
EY	10+60.8	11+28.5	LT				68			
EY	10+60.8	11+28.5	RT				68			
DY	11+60	12+75	CL					115		
TY	10+99	11+28.5	RT/LT		16					
	10+66		LT							13
TOTAL				220	36	81	352	702.5	86	38
TOTAL CARRIED TO GENERAL SUMMARY				220	36	0.02	0.07	0.14	86	38

STA Main/Tremont RAB  
 Main Ave W - Signing and Striping Plan  
 City of Massillon  
 Stark County, Ohio

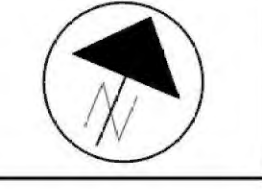
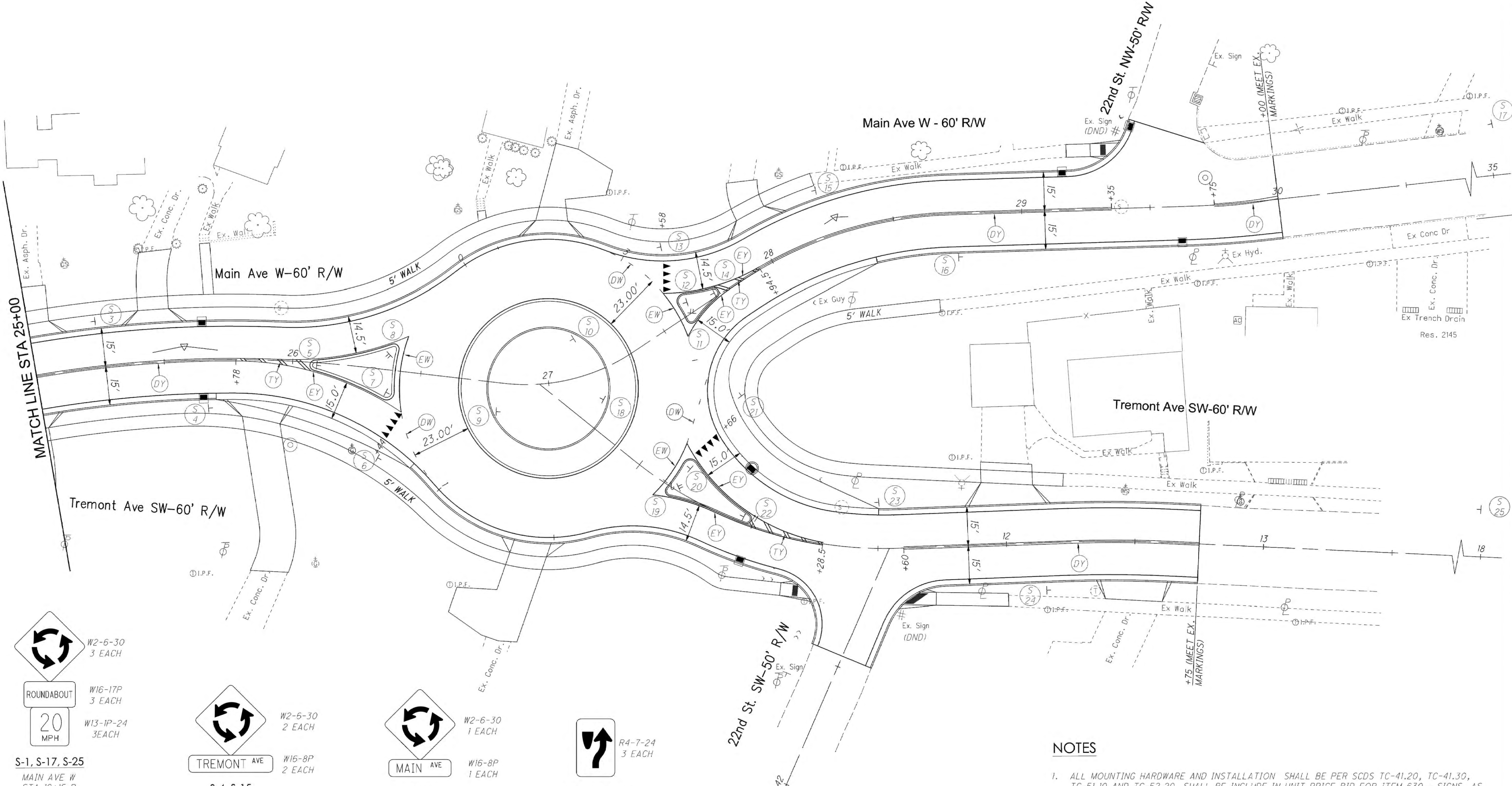
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DESIGNER: FPW

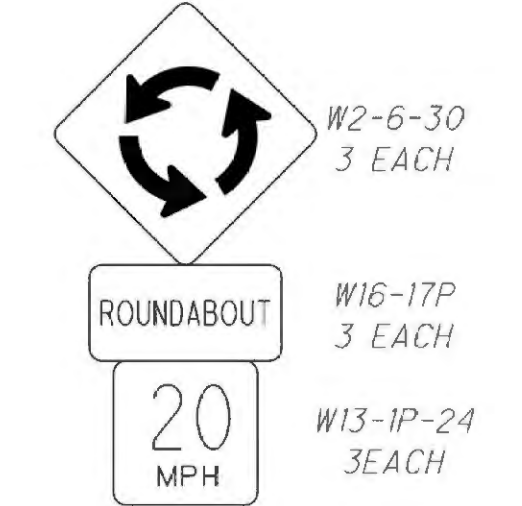
REVIEWER / DATE: AP 7/2025

PROJECT ID: 00s108/120493

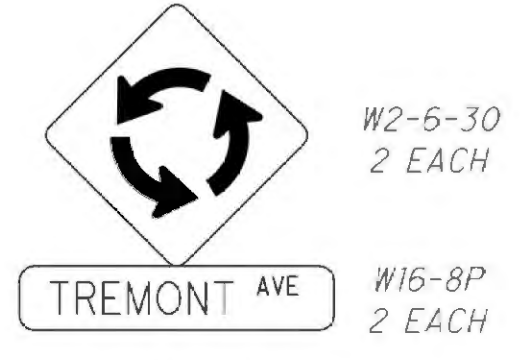
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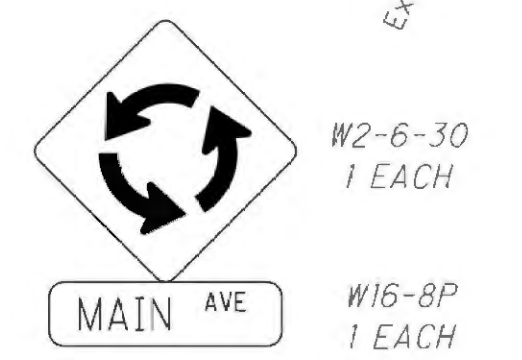
**Main Ave W & Tremont Ave SW Roundabout**  
 Main Ave W / Tremont Ave SW - Signing and Striping Plan  
 City of Massillon  
 Stark County, Ohio



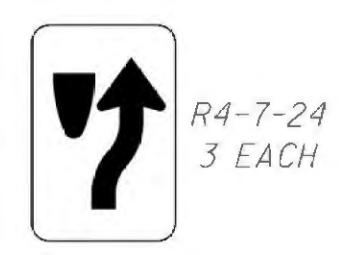
**S-1, S-17, S-25**  
 MAIN AVE W  
 STA 19+15 R  
 STA 35+00 L  
 TREMONT AVE NW  
 18+00 L



**S-4, S-15**  
 MAIN AVE W  
 STA 25+65 R  
 STA 28+25 L



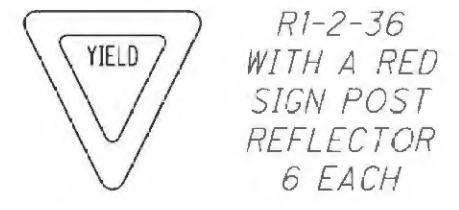
**S-23**  
 TREMONT AVE NW  
 STA 11+50 L



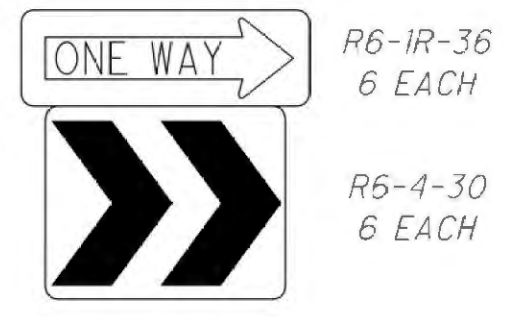
**S-5, S-14, S-22**  
 MAIN AVE W  
 STA 26+10 R  
 STA 27+74 L  
 TREMONT AVE W  
 STA 10+95 L



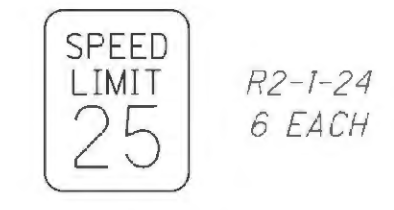
**S-8, S-11**  
 MAIN AVE W  
 STA 26+35  
 STA 27+63



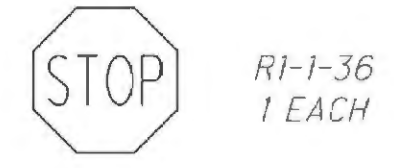
**S-6, S-7, S-12, S-13, S-20, S-21**  
 MAIN AVE W  
 STA 26+37 L  
 STA 26+37 L  
 STA 27+64 L  
 STA 27+67 L  
 TREMONT AVE W  
 STA. 11+71 L  
 STA 11+67 L



**S-9, S-10, S-18**  
 MAIN AVE W  
 STA 26+81 R  
 STA 27+14 L  
 TREMONT AVE NW  
 STA 10+23 L



**S-3, S-16, S-24**  
 MAIN AVE W  
 STA 25+25 L  
 STA 28+65 R  
 TREMONT AVE NW  
 STA 12+12 R



**S-2**  
 23rd ST NW  
 STA 60+25 L



**S-19**  
 TREMONT AVE W  
 STA 10+68

**NOTES**

1. ALL MOUNTING HARDWARE AND INSTALLATION SHALL BE PER SCDS TC-41.20, TC-41.30, TC-51.10 AND TC-52.20. SHALL BE INCLUDE IN UNIT PRICE BID FOR ITEM 630 - SIGNS, AS PER PLAN, ITEM 630 - GROUND MOUNTED SUPPORT, AS PER PLAN.
2. ALL GROUND MOUNTING SUPPORTS SHALL BE TYPE S POSTS UNLESS OTHERWISE APPROVED BY CITY ENGINEER INCLUDING ALL POST REFLECTORS. SHALL BE INCLUDED IN UNIT PRICE BID FOR ITEM 630 - GROUND MOUNTED SUPPORT, AS PER PLAN

**LEGEND**

- (CW) ITEM 643 - SOLID WHITE CROSS WALK 6' APART (8") - 198 FT
- (DY) ITEM 646 - CENTER LINE, TYPE A - (702 FT) 0.14 Mi.
- (DW) ITEM 646 - DOTTED LINE, (8") - 92 FT
- (EW) ITEM 646 - EDGE LINE, 4", TYPE A (WHITE) - (76 FT) 0.02 Mi.
- (EY) ITEM 646 - EDGE LINE, 4", TYPE A (YELLOW) - (354 FT) 0.07 Mi.
- (TY) ITEM 646 - TRANSVERSE/DIAGONAL LINE (YELLOW) (12") SPACE AT 5' C/C - 135 L.F.
- ▼▼▼▼ ITEM 646 - PAVEMENT MARKING MISC.: YIELD LINE - 40 FT

LOGG:

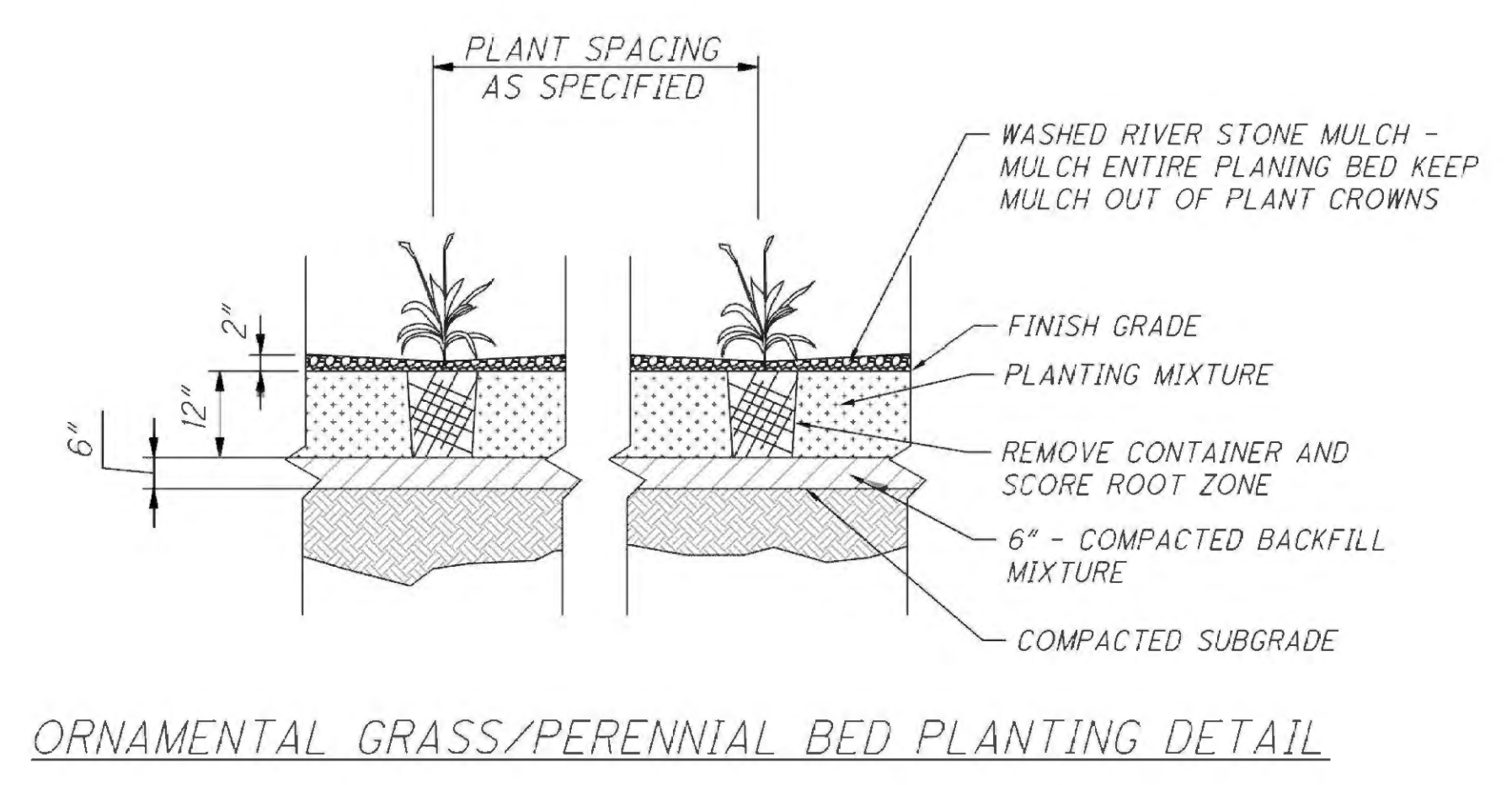
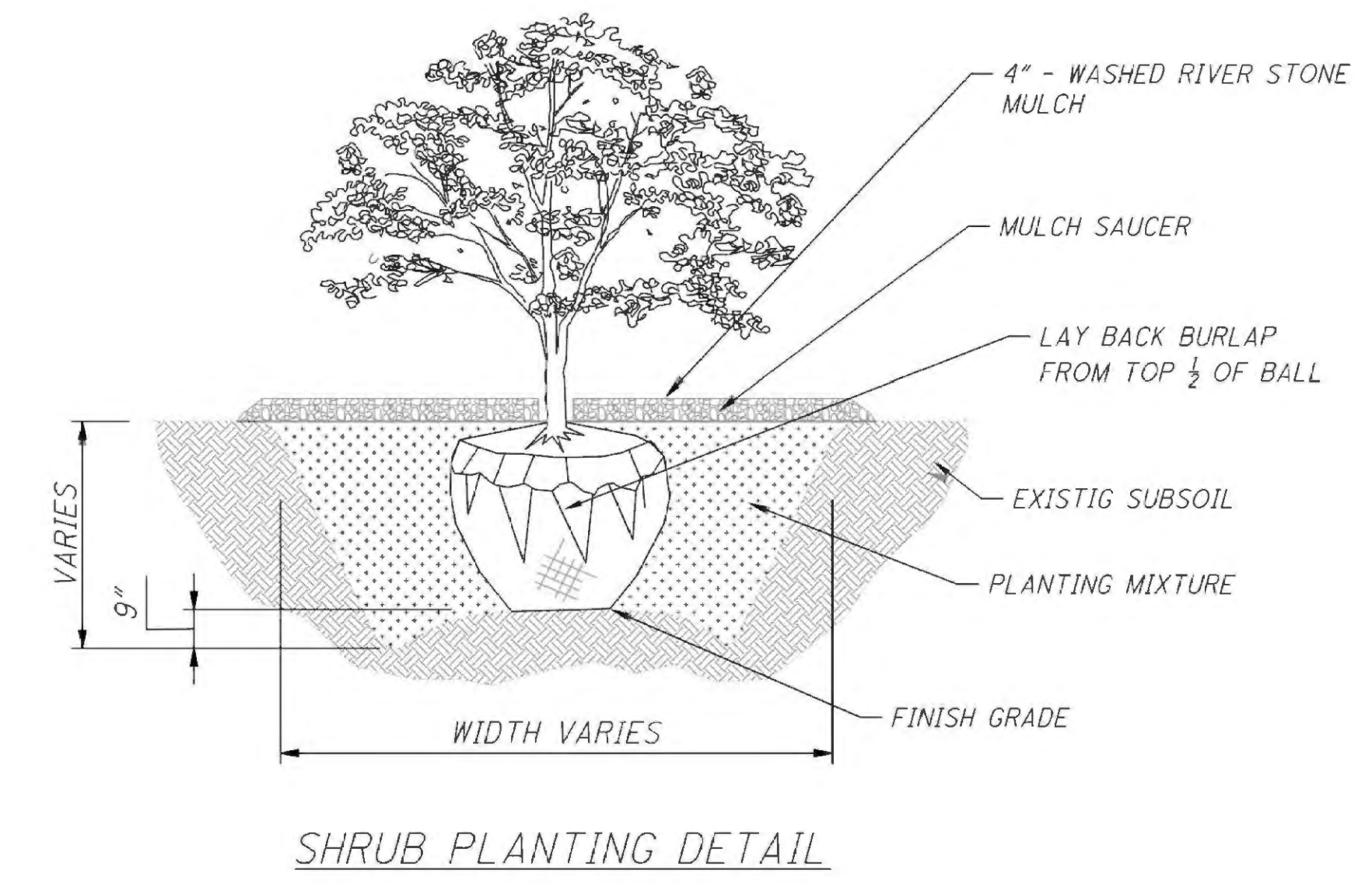
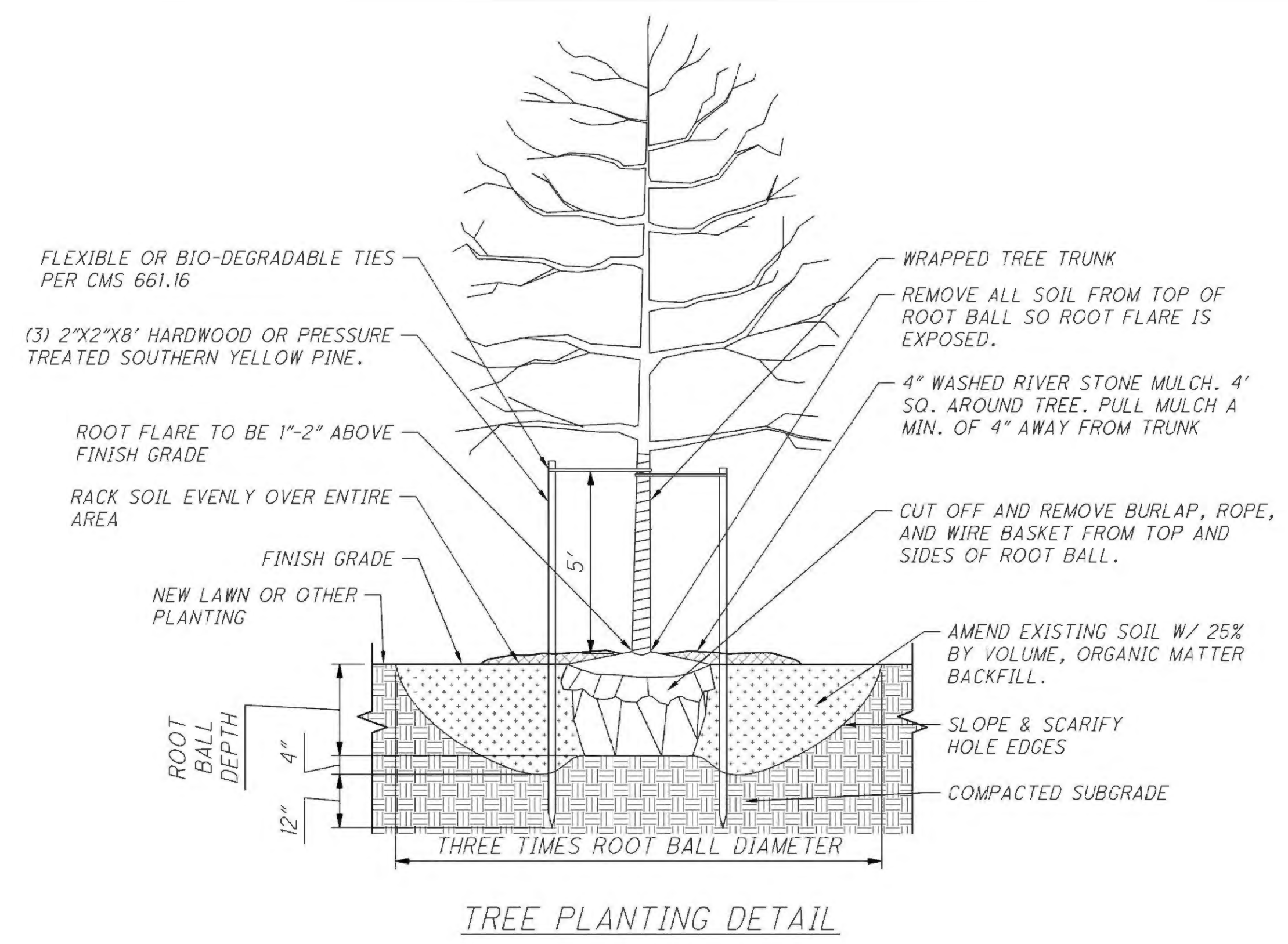
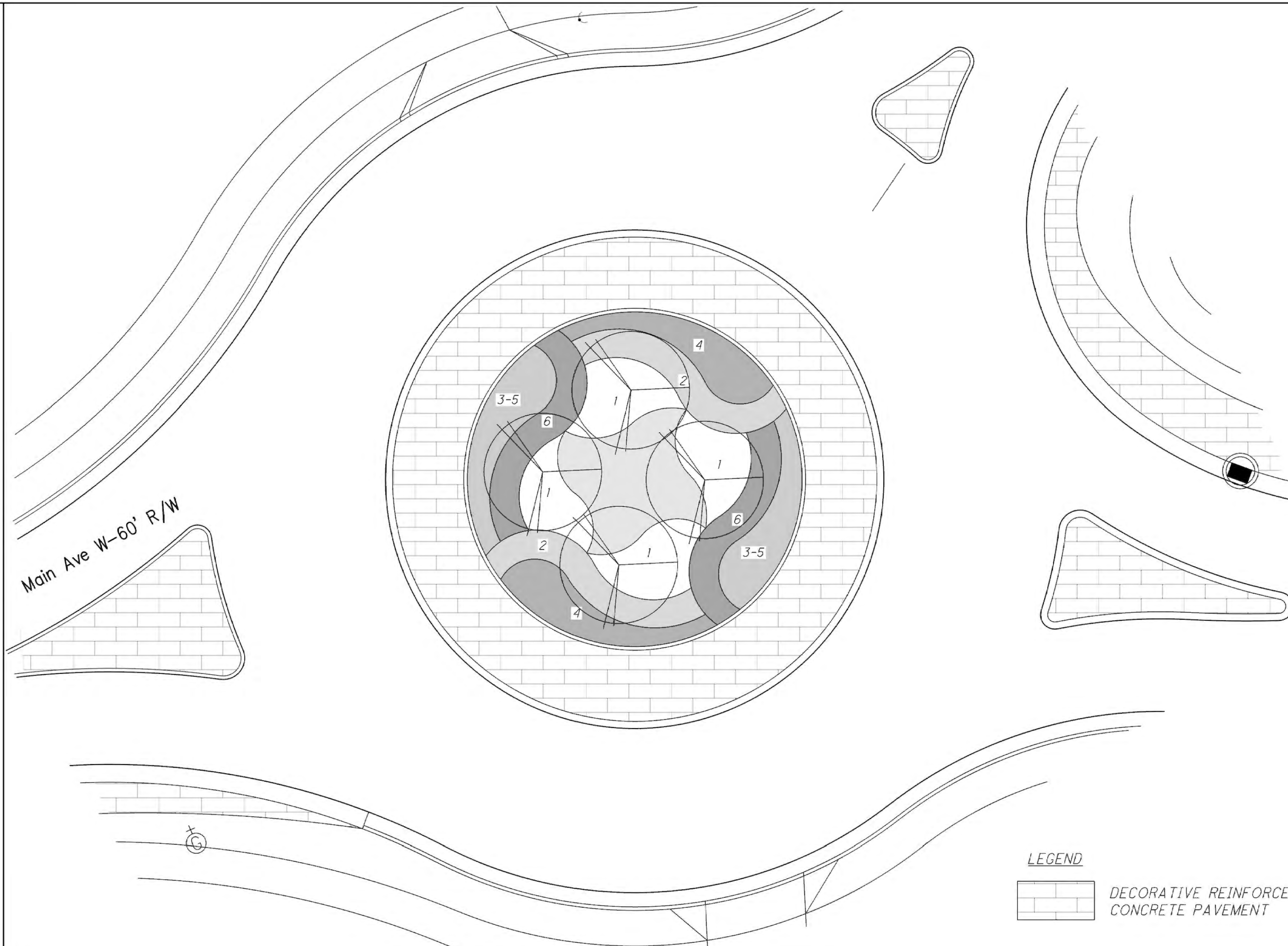


DESIGNER  
FW

REVIEWER / DATE  
AP 7/2025

PROJECT ID  
00s108/120493

SHT NO. TOTAL  
48 49



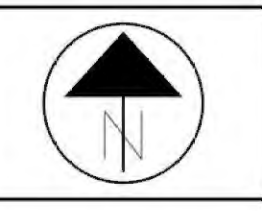
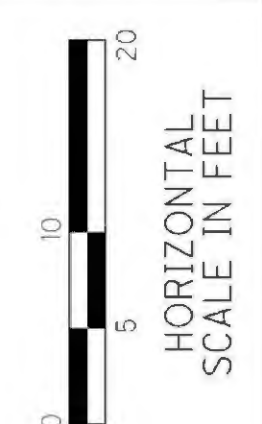
**LEGEND**  
 DECORATIVE REINFORCED CONCRETE PAVEMENT

**PLANT MATERIALS LIST**

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOTS	SPACING	REMARKS	ITEMS CARRIED TO GENERAL SUMMARY
4	ZELKOVA S. 'GREEN VASE'	GREEN VASE ZELKOVA	3" CAL.	B & B	SEE PLANS	MATCH HEIGHTS	661-DICIDUOUS TREE, 3" CA, ZELKOVA S. 'GREEN VASE'
1	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER		NO. 3 CONT.	4' O.C.		661-EVERTREE TREE, NO. 3, SEA GREEN JUNIPER
2	PEROVSKIA ATRIPLICIFOLIA 'FLIGRIN'	RUSSIAN SAGE		NO. 1 CONT.	3' O.C.		661-PERENINIALS, NO. 1, RUSSIAN SAGE
3	NEPETA FAASSENII 'WALKERS LOW'	WALKERS LOW CATMINT		NO. 1 CONT.	3' O.C.		661-PERENINIALS, NO. 1, WALKERS LOW CATMINT
4	HEMEROCALLIS 'HAPPY RETURNS'	HAPPEY RETURNS DAYLILY		NO. 1 CONT.	3' O.C.		661-PERENINIALS, NO. 1, HAPPY RETURNS DAYLILY
5	ACHILLEA MILLEFOLIUM	COMBINATION OF COLORS OF YARROW		NO. 1 CONT.	3' O.C.		661-PERENINIALS, NO. 1, COMBINATION OF COLORS OF YARROW
6	RUDBECKIA HIRTA	BLACKED EYED SUSAN		NO. 1 CONT.	3' O.C.		661-PERENINIALS, NO. 1, BLACK EYED SUSAN
7	MISCANTHUS SINENSIS 'ADAGIO'	ADIGIO MAIDEN GRASS		NO. 2 CONT.	4' O.C.		661-PERENINIALS, NO. 2 ADIGIO MAIDEN GRASS
26							681-MULCH AS PER PLAN
1200							662-LANDSCAPE WATERING

- NOTES:**
- FOR PLANT AND PLANTING SPECIFICATIONS SEE ODOT ITEM 661 AND 662 IN THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. EXCEPTION: ITEM 611.11 - (LANDSCAPE MULCH) - SUBSTITUTE BARK AND SHREDDED WOOD MULCH WITH NO 57 SIZE WASHED RIVER STONE.
  - FOR CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
  - INCORPORATE COMMERCIALY PREPARED MYCORRHIZA SPORES IN THE SOIL IMMEDIATELY AROUND THE ROOT AT RATES SPECIFIED BY THE MANUFACTURER
  - PLANTS SHALL BE WATER IMMEDIATELY FOLLOWING PLANTING.
  - PLANTINGS SHALL BE SPACED TO AVOID CASTINGS IN CENTER ISLAND

**ITEM 661 - MULCH, AS PER PLAN**  
 THIS ITEM SHALL MEET ALL THE REQUIREMENTS OF 611.11, EXCEPT THE MULCH MATERIAL SHALL BE WASHED RIVER STONE



**Main Ave W & Tremont Ave SW Roundabout**  
 Main Ave W - Plan and Profile Sta. 24+00 to Sta. 28+00  
 City of Massillon  
 Stark County, Ohio

LOGG:



DESIGNER  
 FFW

REVIEWER / DATE  
 AP 7/2025

PROJECT ID  
 00s108/120493

SHT NO. TOTAL  
 49 49