

1 CURVE DATA	
P.I.	= Sta. 22+40.35
Δ	= 3°08'38" Rt.
D _C	= 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 _C	= 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 _C	= 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 _C	= 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 _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
Δ	= 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

7 CURVE DATA	
P.I.	= Sta. 60+52.08
Δ	= 14°38'29" Rt.
D _C	= 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

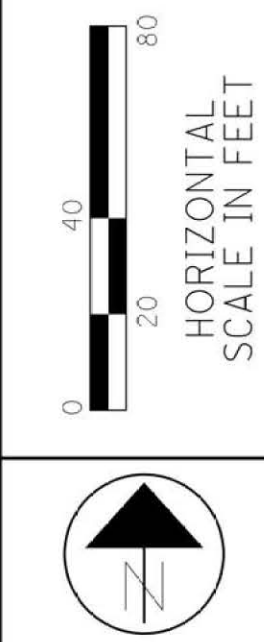
BEGIN PROJECT
STA. 12+75.00

8 CURVE DATA	
P.I.	= Sta. 11+05.18
Δ	= 41°03'13" Lt.
D _C	= 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 _C	= 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
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

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 NW 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



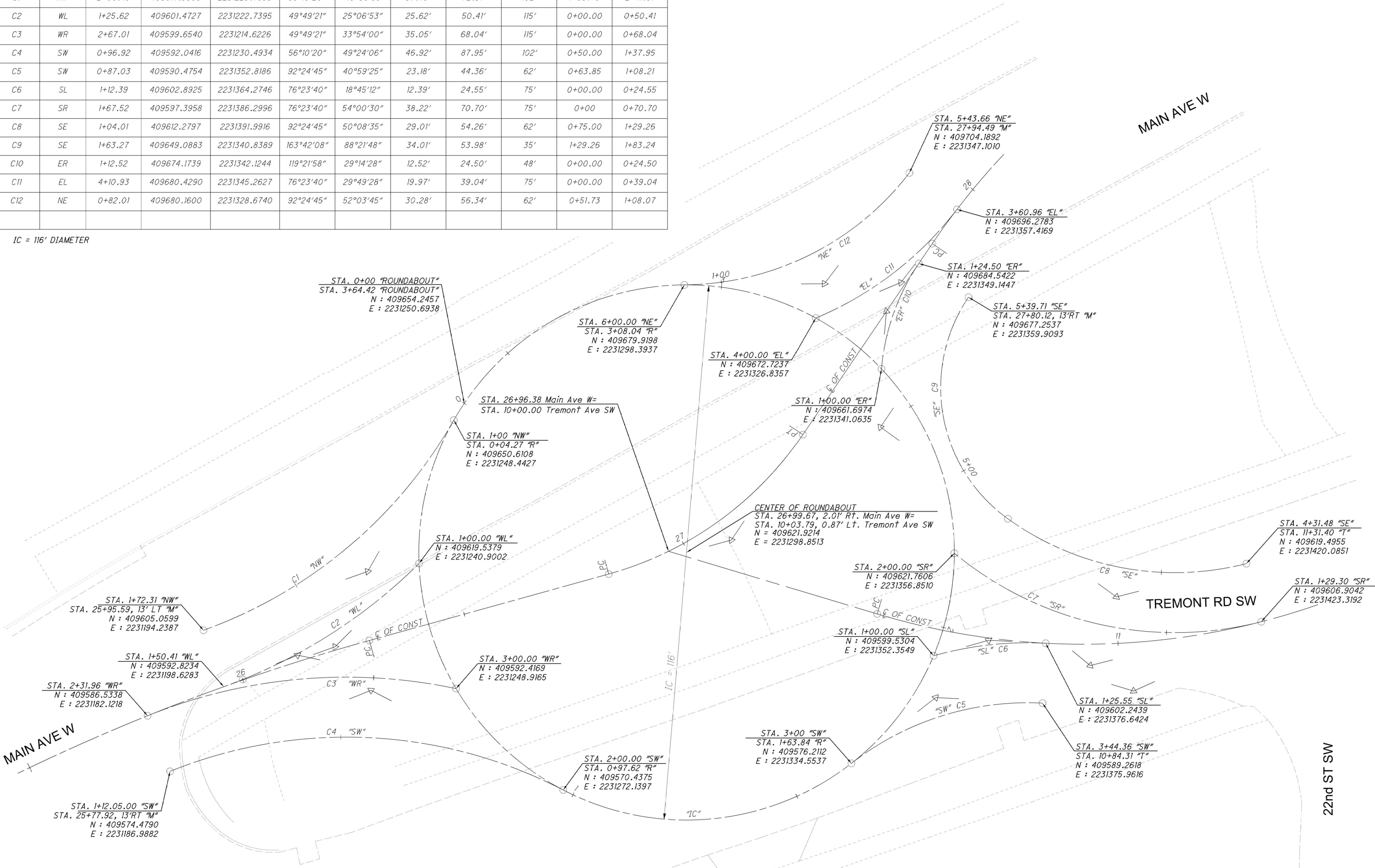
STA Main/Tremont RAB
Schematic Plan
City of Massillon
Stark County, Ohio



COMPANY	
DESIGNER	
FPW	
REVIEWER / DATE	
AP 7/2025	
PROJECT ID	
00st08/120493	
SHEET	SHEET
2	48

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



01020

HORIZONTAL

SCALE IN FEET

N

STA Main/Tremont RAB

REFERENCE LINE LAYOUT PLAN

City of Massillon

Stark County, Ohio

COMPANY



DESIGNER

FW

REVIEWER / DATE

AP 7/2025

PROJECT ID

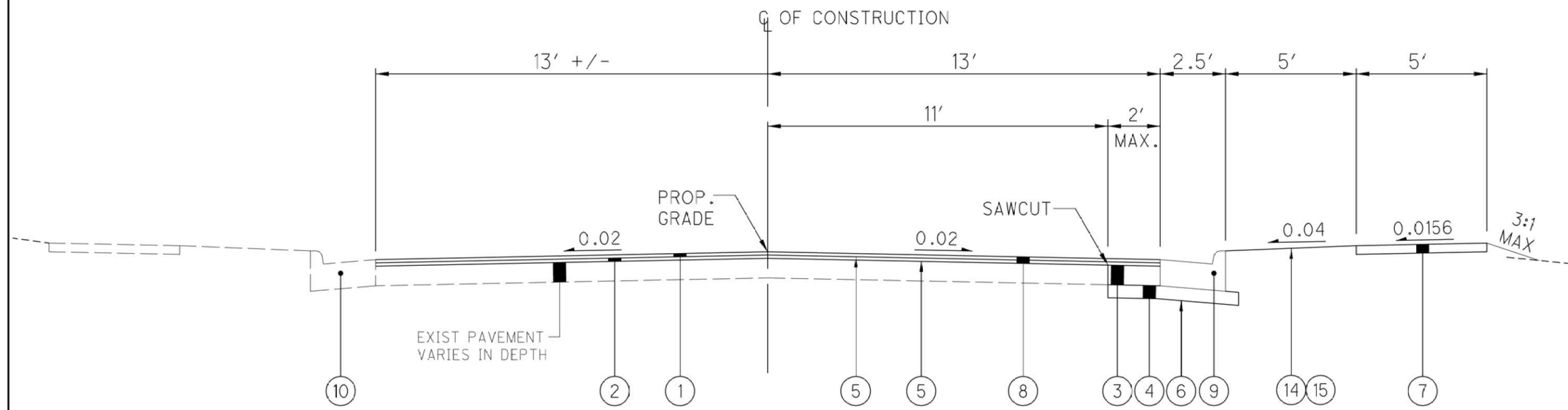
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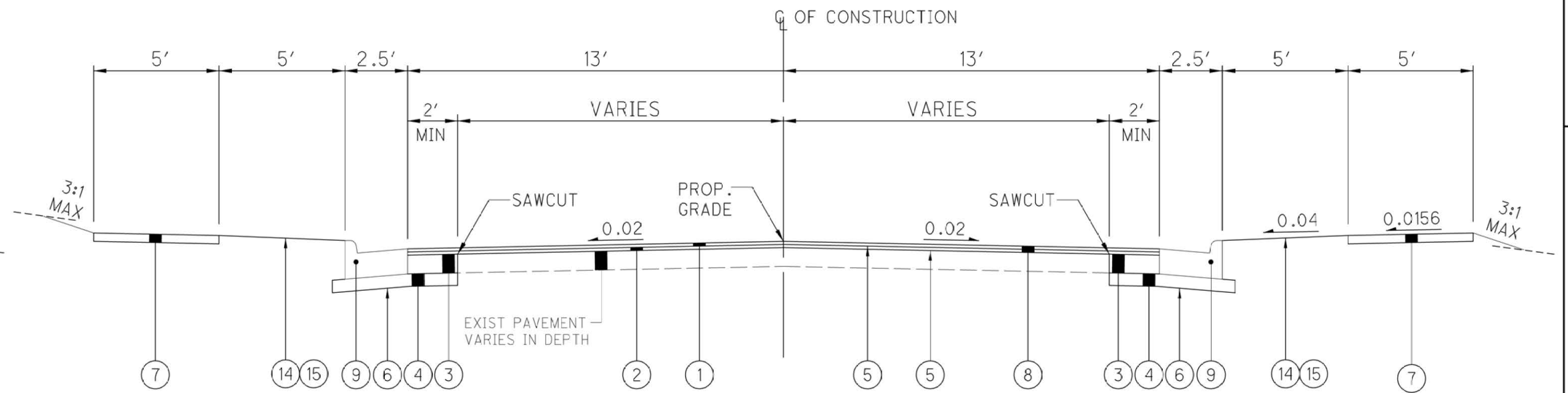
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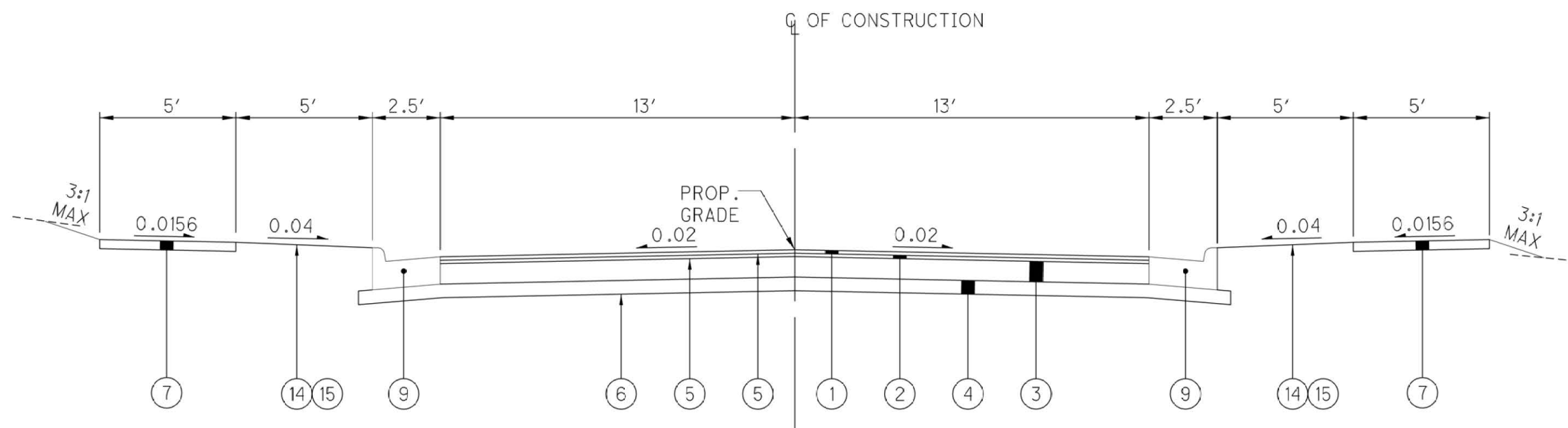
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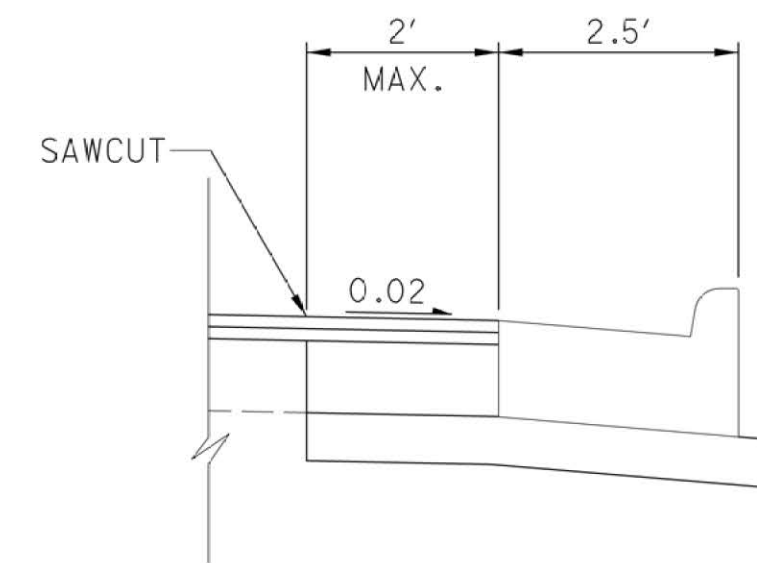
TYPICAL SECTION
MAIN AVE W
STA 20+90 TO STA 24+70.16



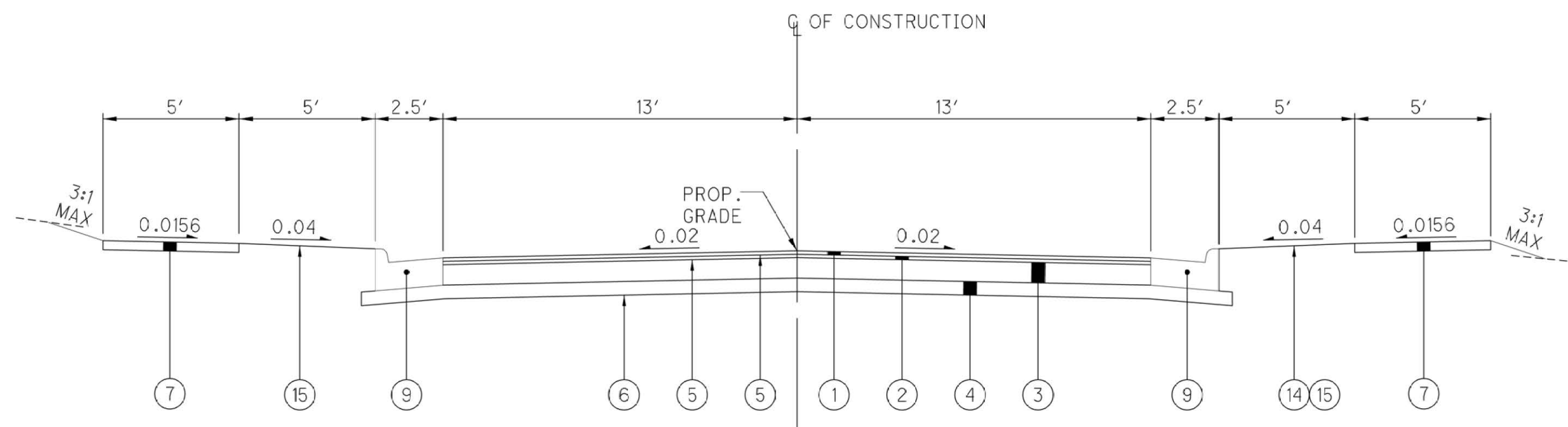
TYPICAL SECTION
MAIN AVE W
STA 24+70.16 TO STA 25+50.64



TYPICAL SECTION
MAIN AVE W
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



PAVEMENT WIDENING AND REDUCTION



TYPICAL SECTION
TREMONT AVE SW
STA 11+31.40 TO STA 12+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, PG64-22, (449) [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, AS PER PLAN
- ⑧ - ITEM 254 - VARIES PAVEMENT PLANING (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 653 - TOPSOIL FURNISHED AND PLACED
- ⑮ - ITEM 659 - SEEDING AND MULCHING



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

COMPANY



DESIGNER

AP

REVIEWER / DATE

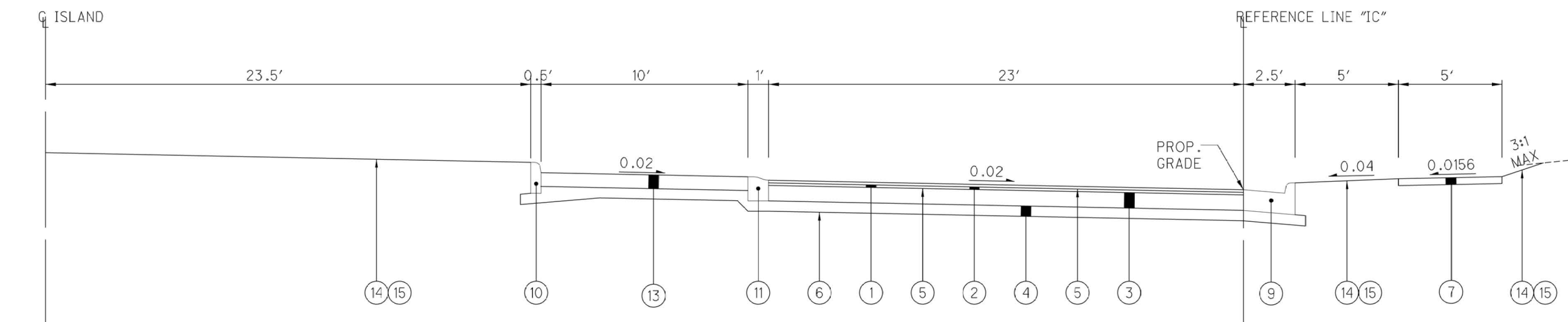
FW 3/6/2025

PROJECT ID

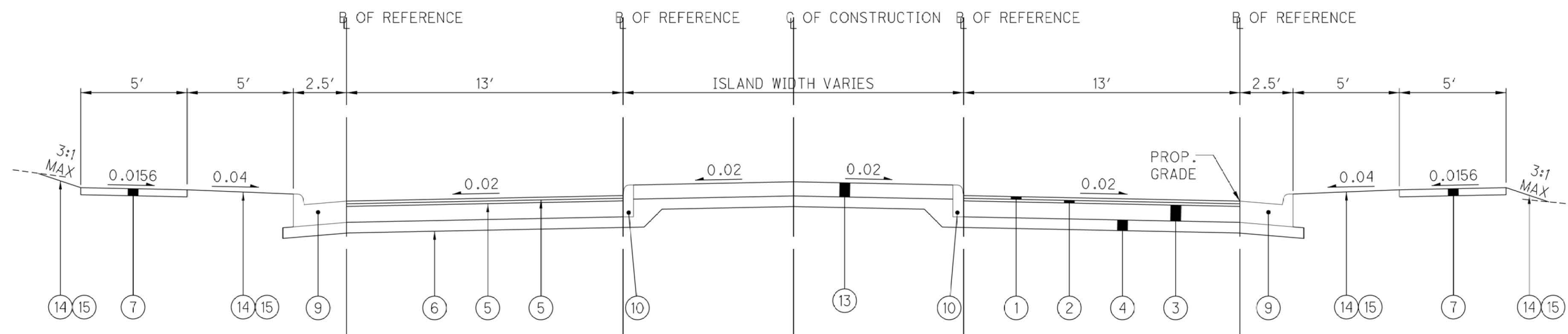
22ST08 / 120493

SHEET

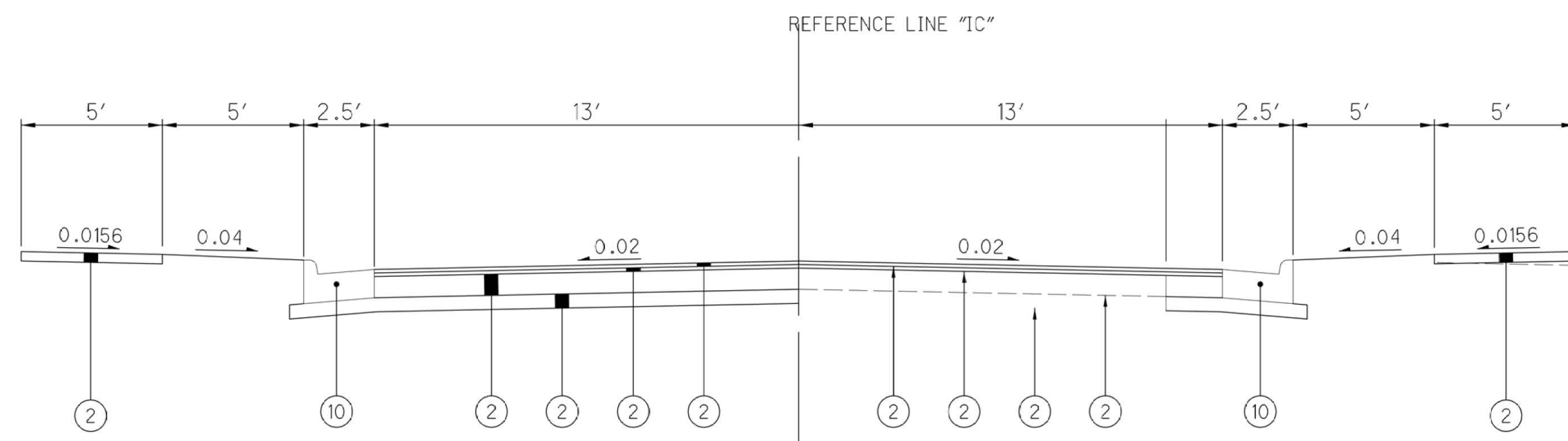
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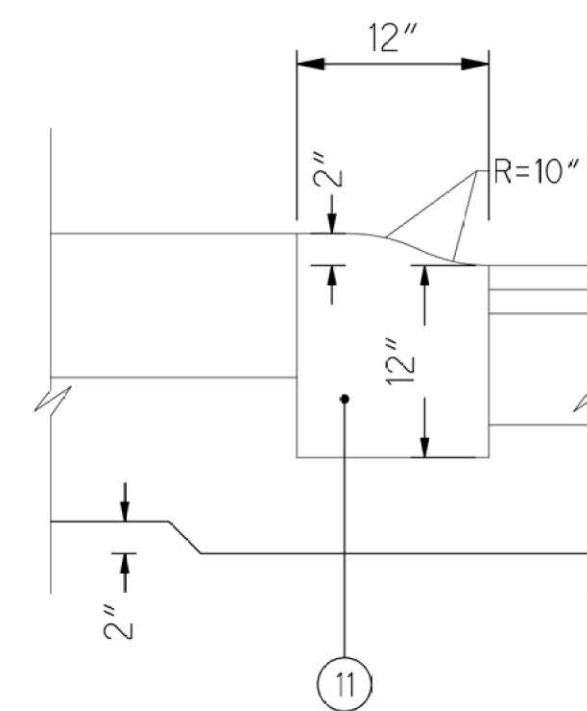
TYPICAL SECTION - ROUNDABOUT
ROUNDABOUT
STA 0+00 TO STA 3+64.42



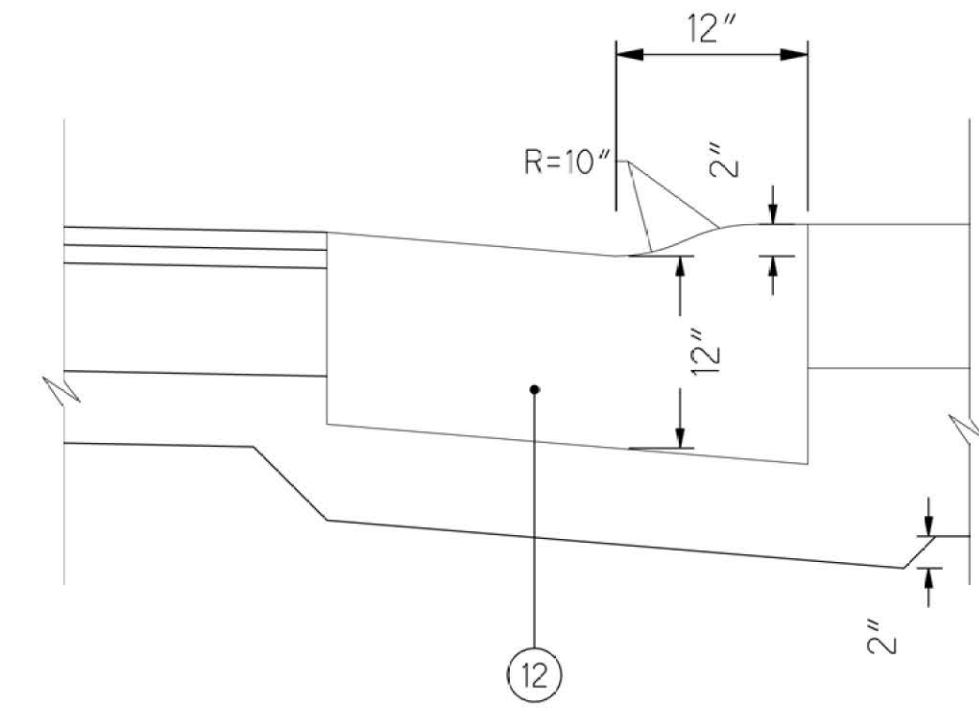
TYPICAL SECTION - SPLITTER ISLAND
MAIN AVE W
STA 26+06.79 TO STA 26+39.98
STA 27+59.71 TO STA 27+76.23
TREMONT AVE SW
STA 10+63.82 TO STA 10+99.02



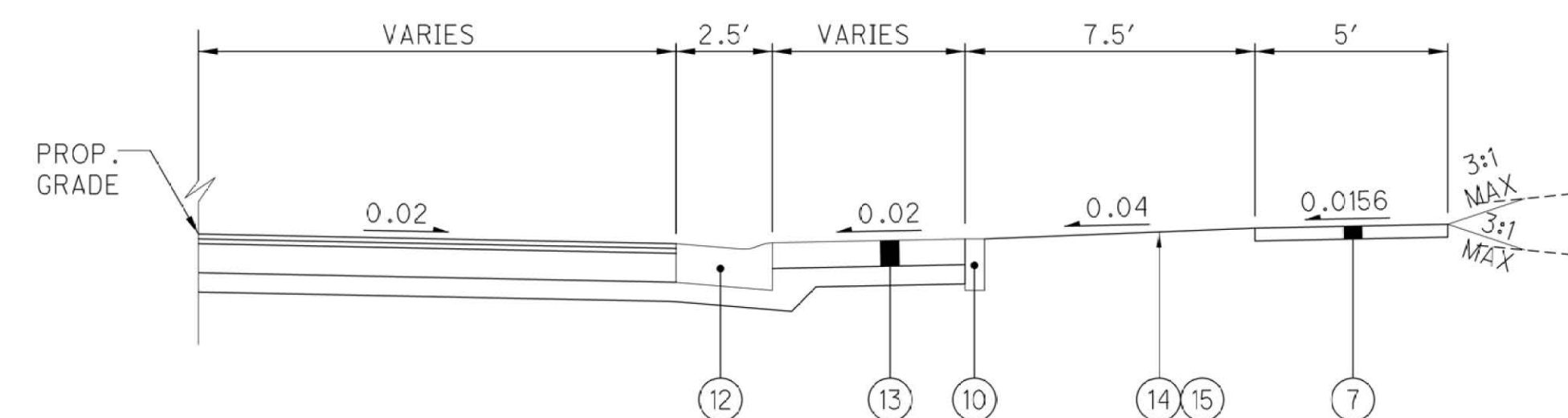
TYPICAL SECTION - MAIN AVE W AND TREMONT AVE SW
CHARLES AVE SE
STA 10+48.57 TO STA 13+08



INTERIOR MOUNTABLE
TRUCK APRON CURB



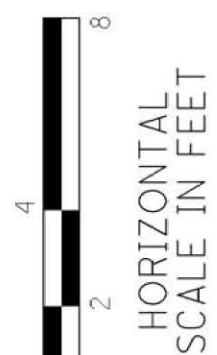
EXTERIOR MOUNTABLE
TRUCK APRON CURB



EXTERIOR TRUCK APRON DETAIL

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, PG64-22, (449) [T=9"] MULTIPLE LIFTS
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- ⑥ - ITEM 204 - SUBGRADE COMPACTION
- ⑦ - ITEM 608 - 4" CONCRETE WALK, AS PER PLAN
- ⑧ - ITEM 254 - VARIES PAVEMENT PLANING (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 - CURB MISC.: INTERIOR MOUNTABLE TRUCK APRON CURB (SEE DETAIL THIS SHEET)
- ⑫ - ITEM 609 - CURB MISC.: EXTERIOR MOUNTABLE TRUCK APRON CURB (SEE DETAIL THIS SHEET)
- ⑬ - ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE) (TRUCK APRON) (STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)
- ⑭ - ITEM 653 - TOPSOIL FURNISHED AND PLACED
- ⑮ - ITEM 659 - SEEDING AND MULCHING



HORIZONTAL
SCALE IN FEET

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 48

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	DOMINION EAST OHIO GAS COMPANY 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
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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: MONUMENT TYPE:	ODOT VRS DATA COLLECTION PER 502.2.H OF SURVEY MANUAL PROJECTION CONTROL MONUMENT TYPE B
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VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: GEOID:	NAVD88 GEOIOD 12B
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HORIZONTAL POSITIONING

REFERENCE FRAME: ELLIPSOID: MAP PROJECTION: COORDINATE SYSTEM: COMBINED SCALE FACTOR: ORIGIN OF COORDINATE SYSTEM:	NAD83 (2011) GRS80 LAMBERT CONFORMAL CONIC OHIO STATE PLANE NORTH ZONE 1.00000000000 EASTING (X): 0, NORTHING (Y): 0
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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. 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.

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
PERRY TOWNSHIP HALL 330-833-2141	NORTH LAWGRANCE FIRE DEPT 330-832-6347
TUSCARAWAS TOWNSHIP HALL 330-832-4337	JACKSON FIRE DEPARTMENT 330-832-1553
MASSILLON POLICE DEPARTMENT 330-830-1849 JACKSON TOWNSHIP HALL 330-832-7416	MASSILLON SCHOOL BUS GARAGE 330-830-1735 PERRY FIRE DEPARTMENT 330-478-5121
JACKSON POLICE DEPARTMENT 330-497-7440	JACKSON SCHOOL BUS GARAGE 330-830-8042
PERRY POLICE DEPARTMENT 330-833-3865	PERRY SCHOOL BUS GARAGE 330-477-1300
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 SEEDDED 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.

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.++

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 6111 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 OTHE UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT SHALL BE REPLACED AT THE CONTRACTORS 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 SHAL 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.

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, TRACKLESS 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.

CONTRACTOR AVAILABILITY

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

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

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.

STA Main/Tremont RAB

General Notes
City of Massillon
Stark County, Ohio



DESIGNER
FW

REVIEWER / DATE
AP 7/2025

PROJECT ID
22s†08 / 120493

SHEET 7	SHEET 48
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LEGEND

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



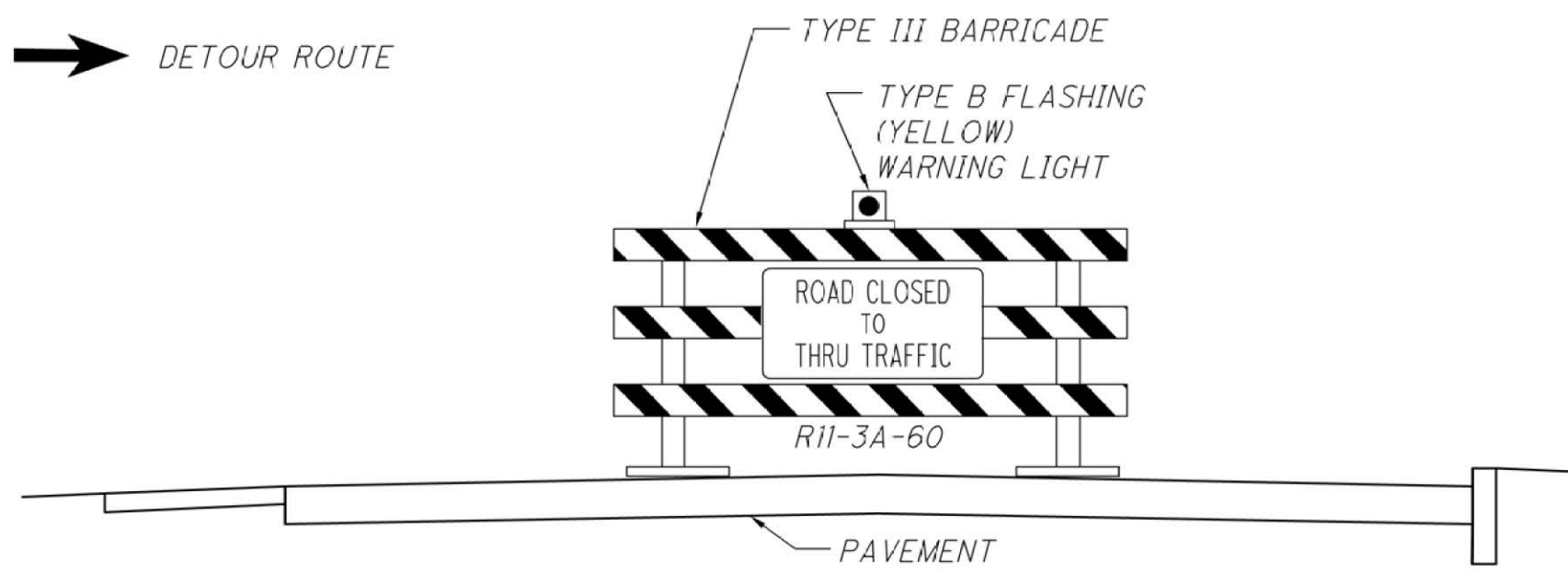
WORK AREA



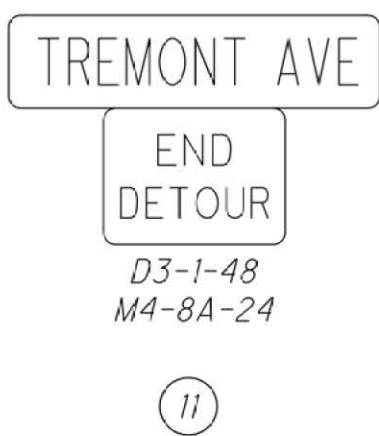
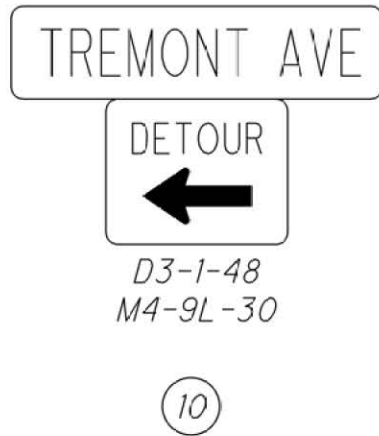
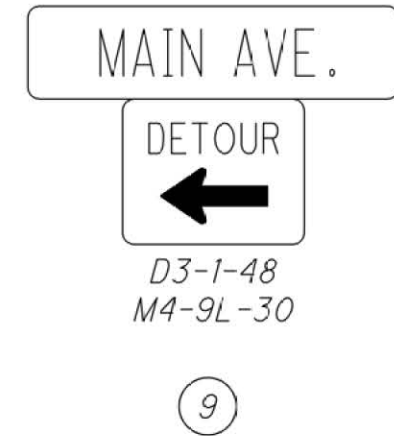
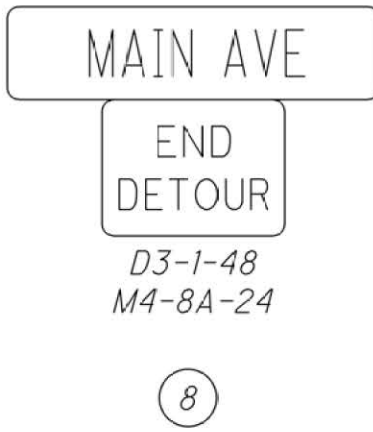
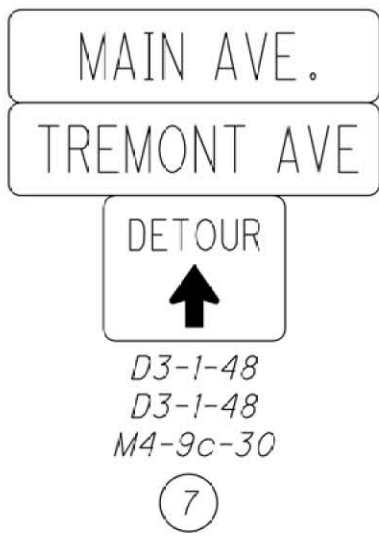
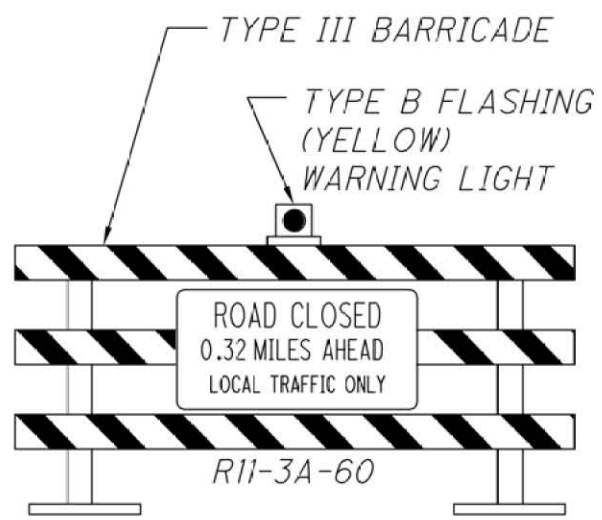
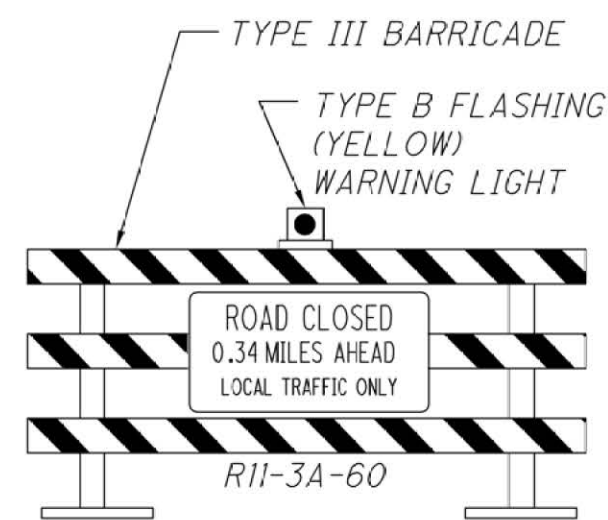
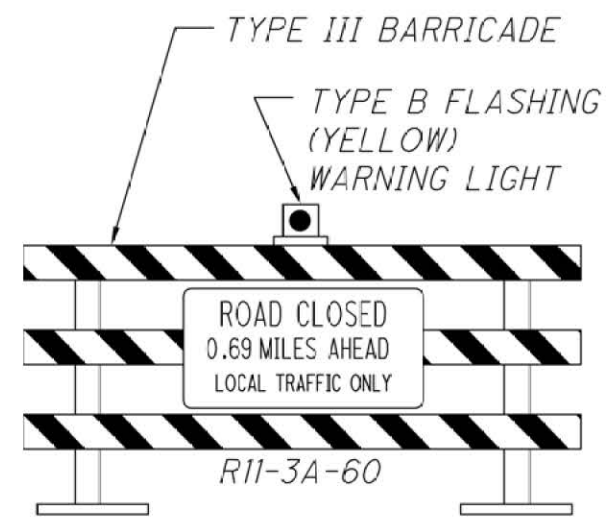
SIGN

 TYPE III BARRICADE

DETOUR ROUTE



SEE ODOT SCD MT-101.60 FOR ADDITIONAL ROAD CLOSURE REQUIREMENTS



FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET NO. %U



STA Main/Tremont RAB

City of Massillon
Stark County, Ohio

COMPANY



DESIGNER

FPW

REVIEWER / DATE

AP 7/2025

PROJECT ID

00s†08/120493

SHEET	SHEET
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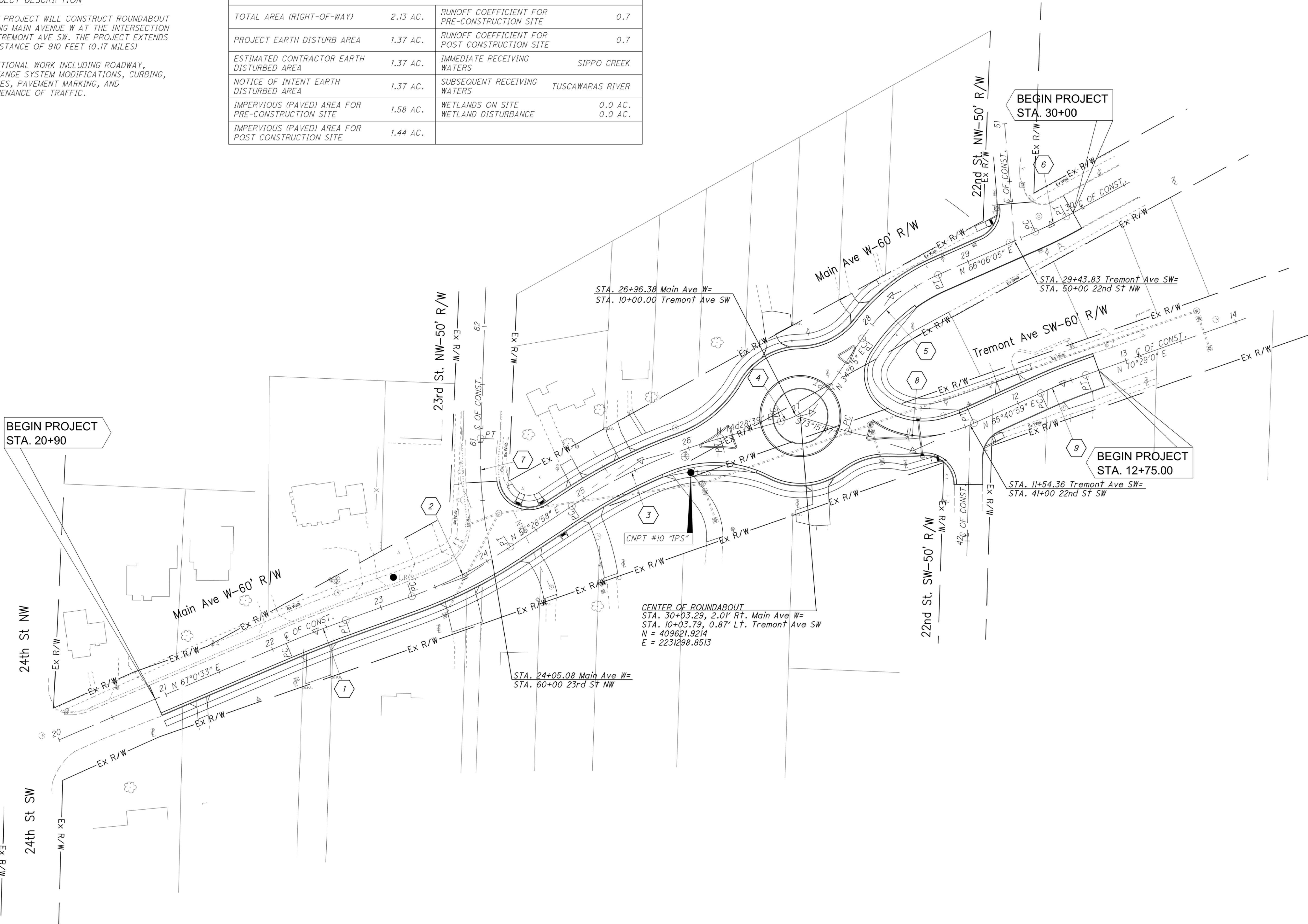
	ITEM 452-NON-REINFORCED CONCRETE, CLASS QCMS DECORATIVE [T=0.75']			ITEM 609-INTERIOR MOUNTABLE TRUCK APRON CURB		
	MAIN AVE NW STA. 25+70.03 TO STA. 26+50 (235.84) (1/9)	=	26.20	SY		
	STA. 26+06.79 TO STA. 26+38.88 (353.27) (1/9)	=	38.14	SY		
	STA. 27+52.68 TO STA. 28+40 (337.88) (1/9)	=	37.54	SY		
	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		
	TOTAL	=	399	CY	TOTAL	= 220 LF
	ITEM 609-CURB, TYPE 2			ITEM 609-EXTERIOR MOUNTABLE TRUCK APRON CURB		
	RIGHT MAIN AVE NW STA. 20+90 TO STA. 25+70 480 STA. 28+40 TO STA. 30+00 160 TREMONT AVE NW STA. 10+84.31 TO STA. 11+14.44 75.2 STA. 11+75.50 TO STA. 12+75.00 98.2 AROUNDABOUT STA. 0+97.64 TO STA. 1+63.86 80.46 STA. 3+08.06 TO STA. 0+04.27 63.24	=	480	LF		
	LEFT MAIN AVE W STA. 24+70.16 TO STA. 26+57.33 199.70 STA. 27+50.00 TO STA. 29+18.56 185.89 TREMONT AVE SE STA. 11+50 TO STA. 12+75 125 INTERSECTION MAIN AVE / 23RD ST NW NE 51.93 MAIN AVE W / 22ND ST NW NE 33.10 TREMONT AVE SW / 22ND ST SW SW 33.58 SE 46.00	=	200	LF		
		=	186	LF		
		=	125	LF		
		=	52	LF		
		=	34	LF		
		=	34	LF		
		=	46	LF		
	TOTAL	=	1637	LF	TOTAL	= 266 LF
	ITEM 609-CURB, TYPE 6			ITEM 608-CONCETE WALK		
	MAIN AVE W ISLAND WEST OF ROUNDABOUT 89.49 ISLAND EAST OF ROUNDABOUT 43.23 TREMONT AVE SE ISLAND EAST OF ROUNDABOUT 84.90 ROUNDABOUT STA 0+00 TO STA 3+64.42 147.66	=	90	LF		
		=	44	LF		
		=	85	LF		
		=	151	LF		
	TOTAL	=	370	LF		
STA Main/Tremont RAB						General Notes City of Massillon Stark County, Ohio
COMPANY						
						
DESIGNER						FW
REVIEWER / DATE						AP 6/2025
PROJECT ID						00s108/120493
SHEET			SHEET			
12			48			

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	1.37 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.



0 20 40 60 80

HORIZONTAL SCALE IN FEET

▲

N

STA Main/Tremont RAB

Site Plan
City of Massillon
Stark County, Ohio

COMPANY

DESIGNER

FPW

REVIEWER / DATE

AP 7/2025

PROJECT ID

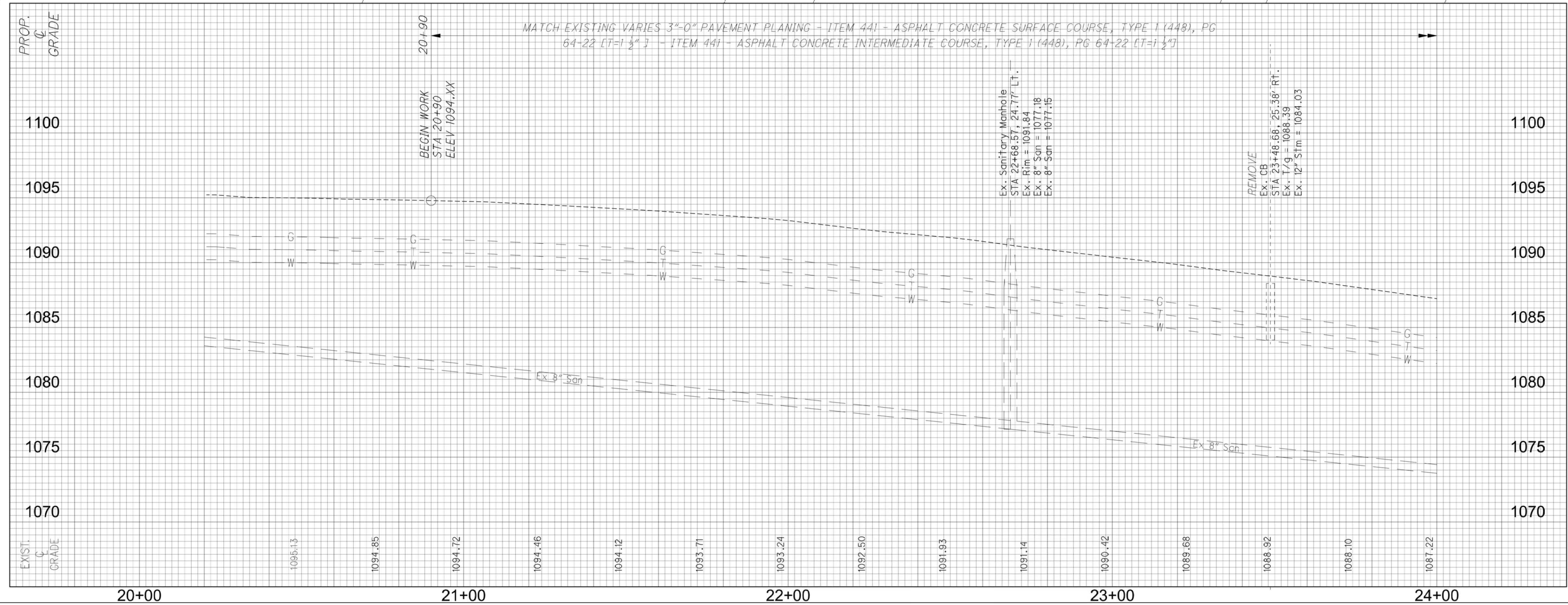
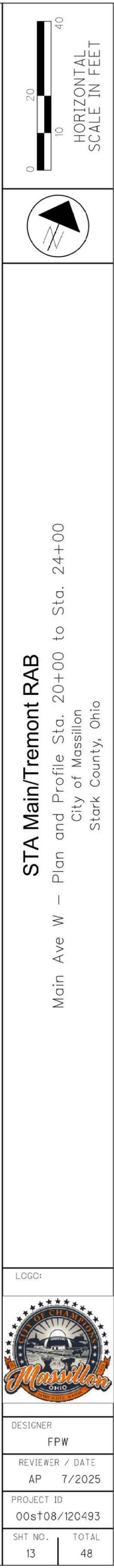
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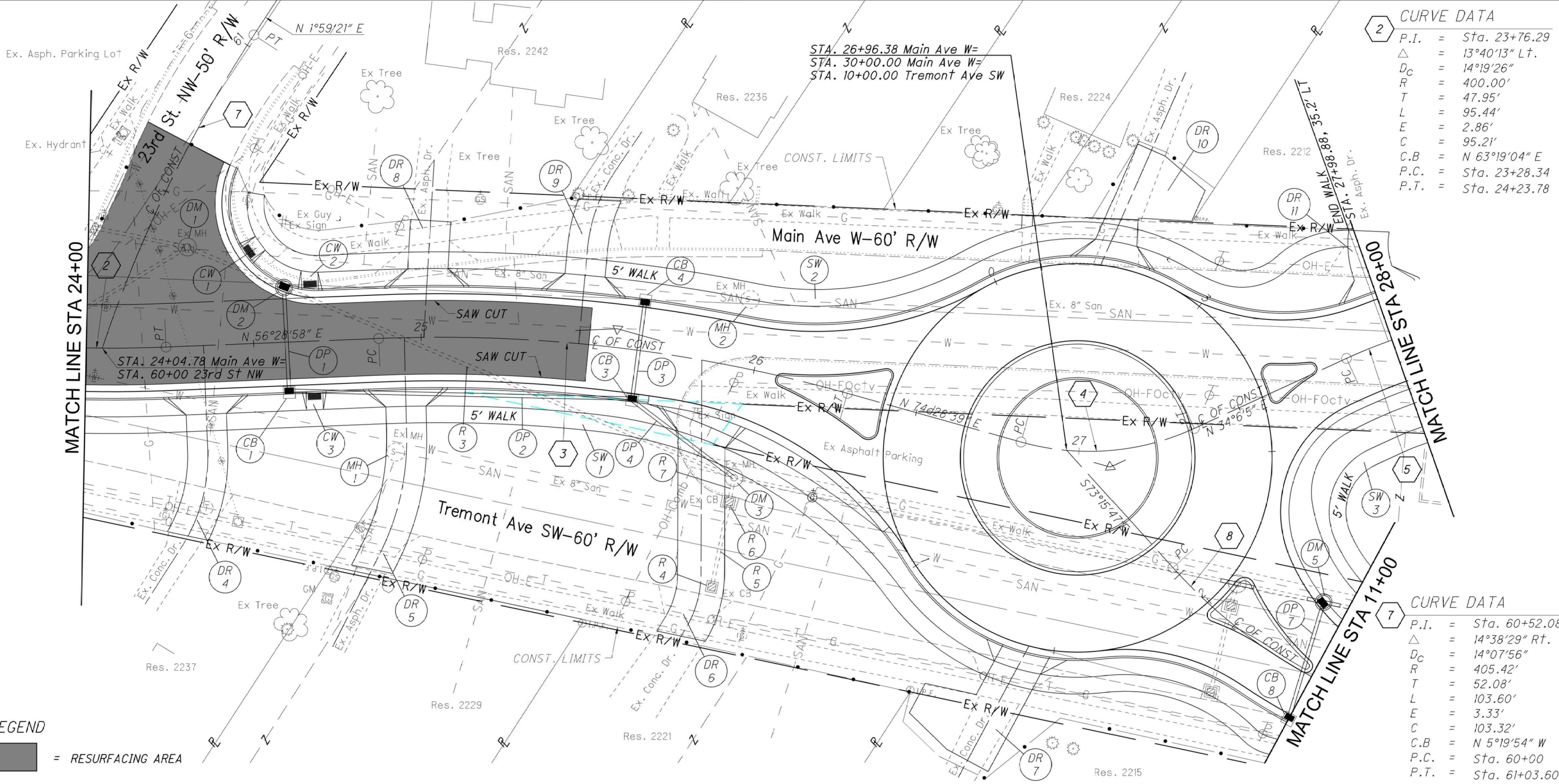
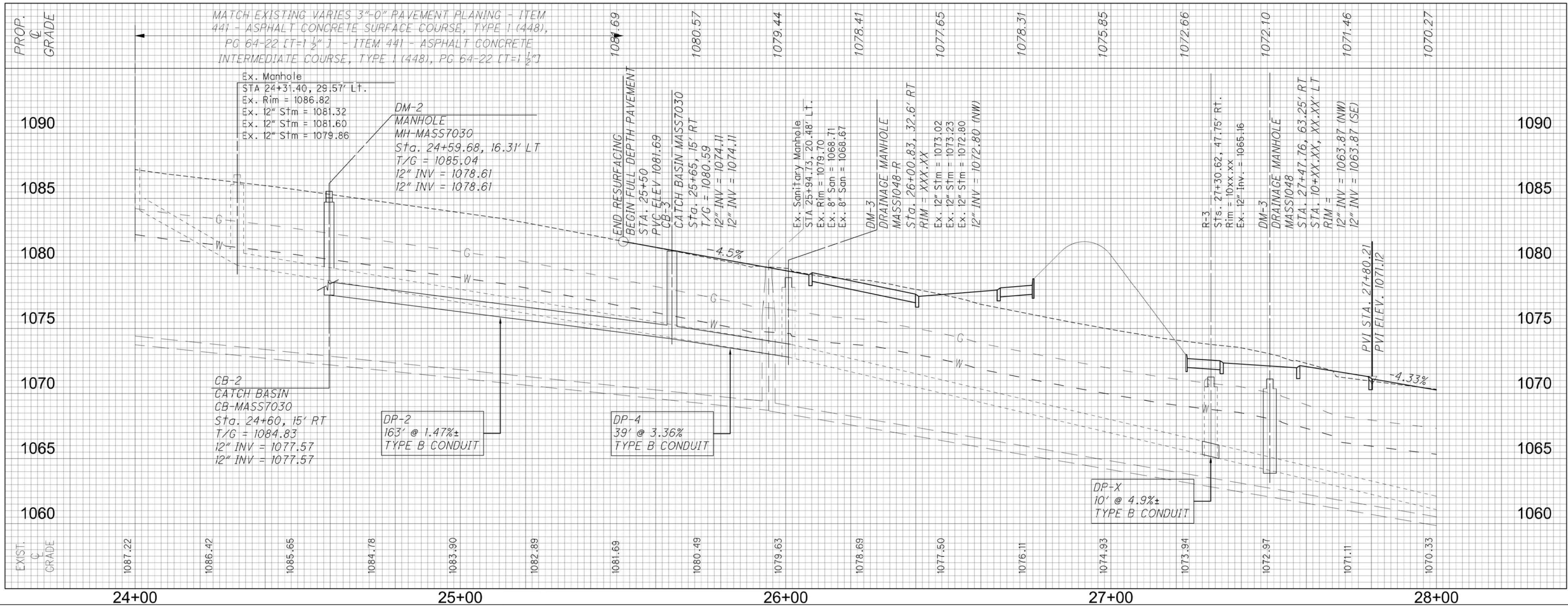
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SHEET

48

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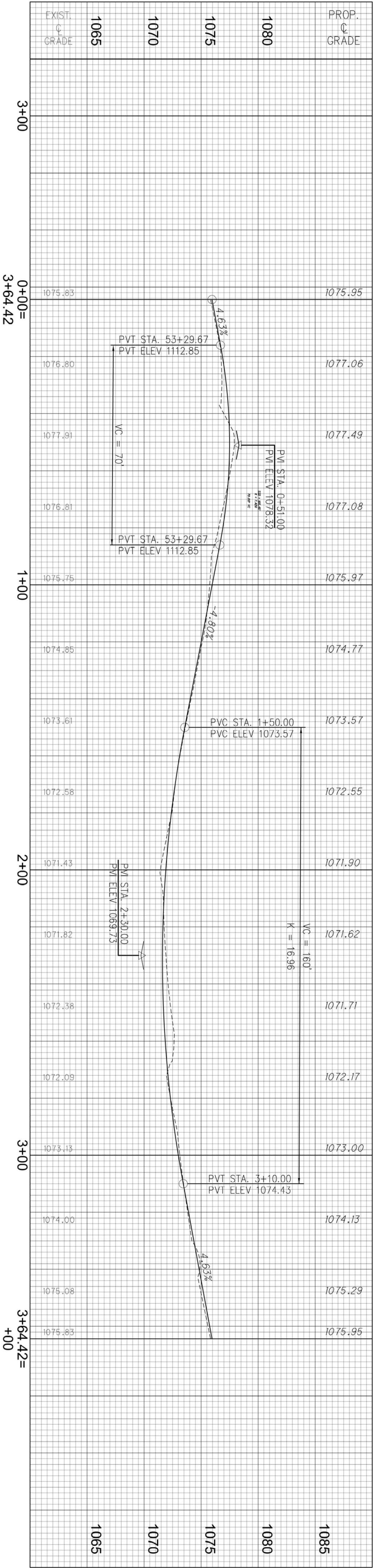
LEGEND
= RESURFACING AREA



REF.	STATION	STATION		SIDE	PIPE REMOVED	CATCH BASIN REMOVED	CURB RAMP	CATCH BASIN	611
		TO	FROM						
R-4		24+59.68	26+00.83	RT/LT	144				611
R-4		26+01.29	26+01.29	RT		1			608
R-5		26+01.29	26+00.99	RT	24				202
R-6		26+00.99	26+00.99	RT		1			202
R-7		26+00.99	26+00.83	RT	5				
CW-1		24+48.45	26+00.83	LT					
CW-2		24+67.50	26+00.83	LT					
CW-3		24+67.50	26+00.83	LT					
CB-2		24+60	26+00.83	RT					
CB-3		25+65	26+00.83	RT					
CB-3		25+65	26+00.83	LT					
TOTALS CARRIED TO GENERAL SUMMARY									
TOTALS CARRIED TO GENERAL SUMMARY									

REF.	STATION	STATION		SIDE	MANHOLE, MASS 1048-R	MANHOLE MASS1048 AGS-R	12" CONDUIT, TYPE B	MANHOLE TYPE: MH-MASS7030	611
		TO	FROM						
DM-1		24+59.68	26+00.83	RT/LT					611
DM-2		26+01.29	26+01.29	LT	1				611
DM-3		26+01.29	26+00.99	RT	1				611
MH-1		24+91.38	26+00.99	RT		1			
MH-2		25+94.73	26+00.99	LT		1			
DP-1		24+48.45	26+00.99	LT					
DP-2		24+67.50	26+00.99	LT					
DP-3		24+67.50	26+00.99	RT					
DP-4		24+60	26+00.99	RT					
TOTALS CARRIED TO GENERAL SUMMARY									
TOTALS CARRIED TO GENERAL SUMMARY									

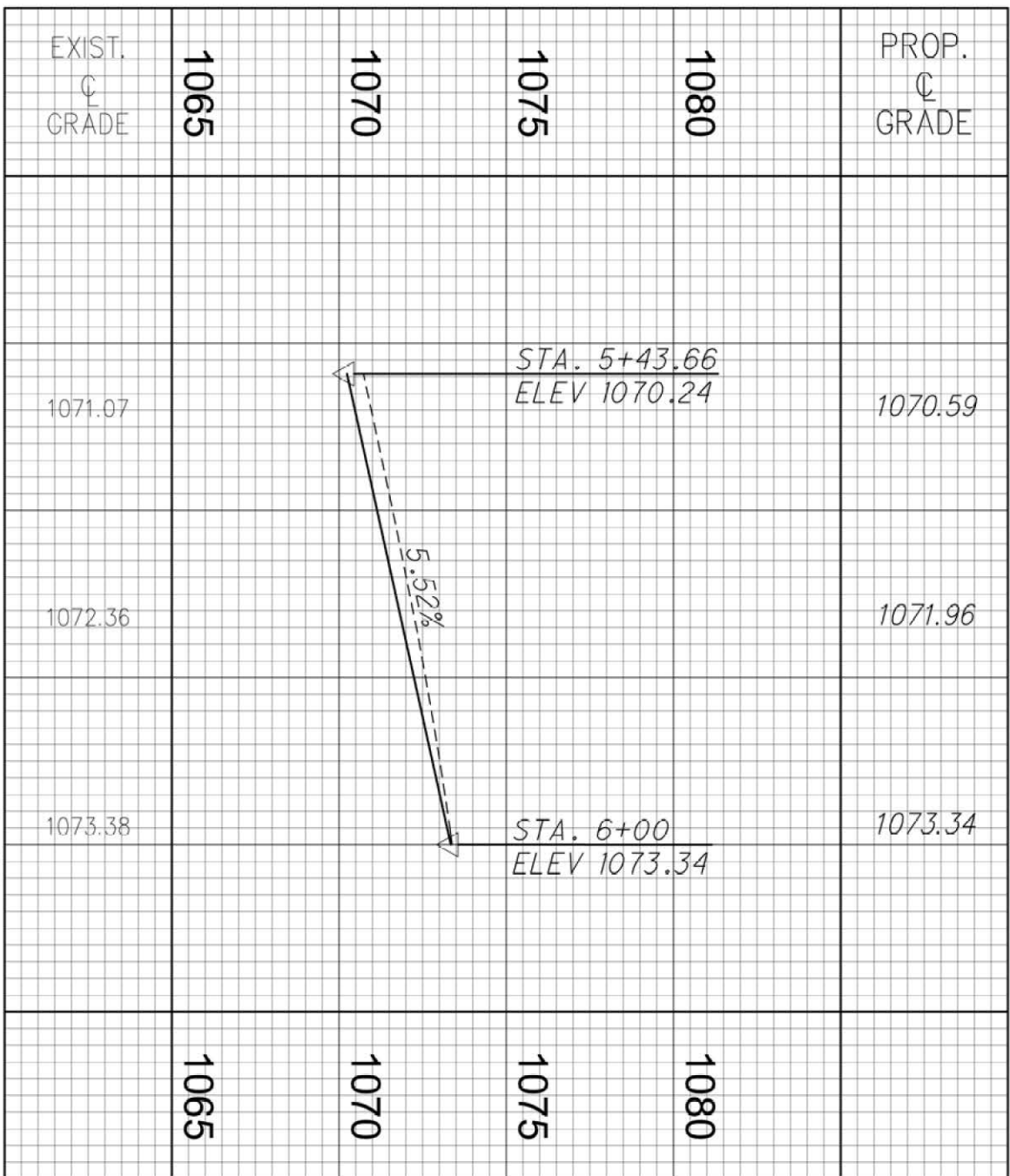
Roundabout



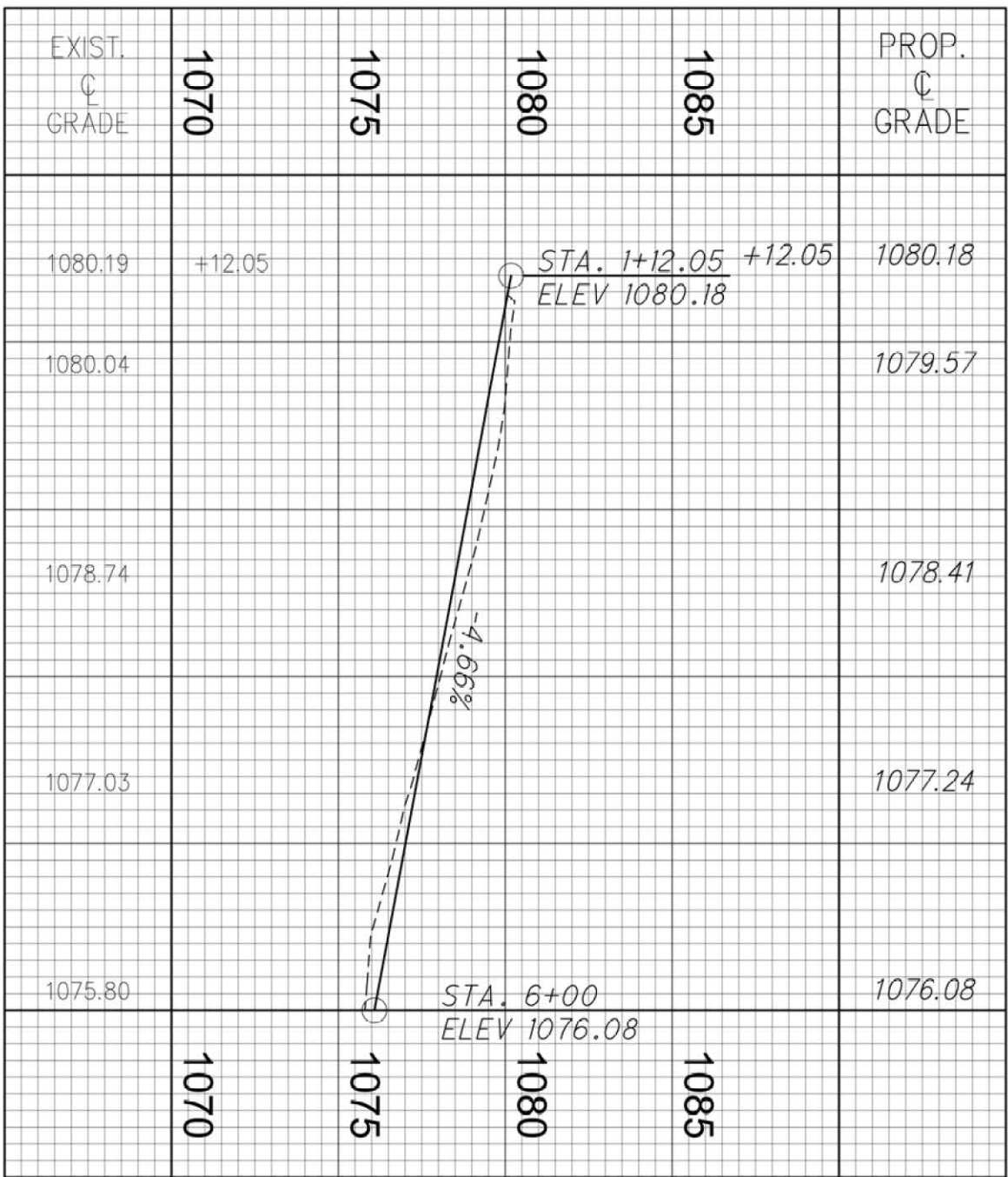
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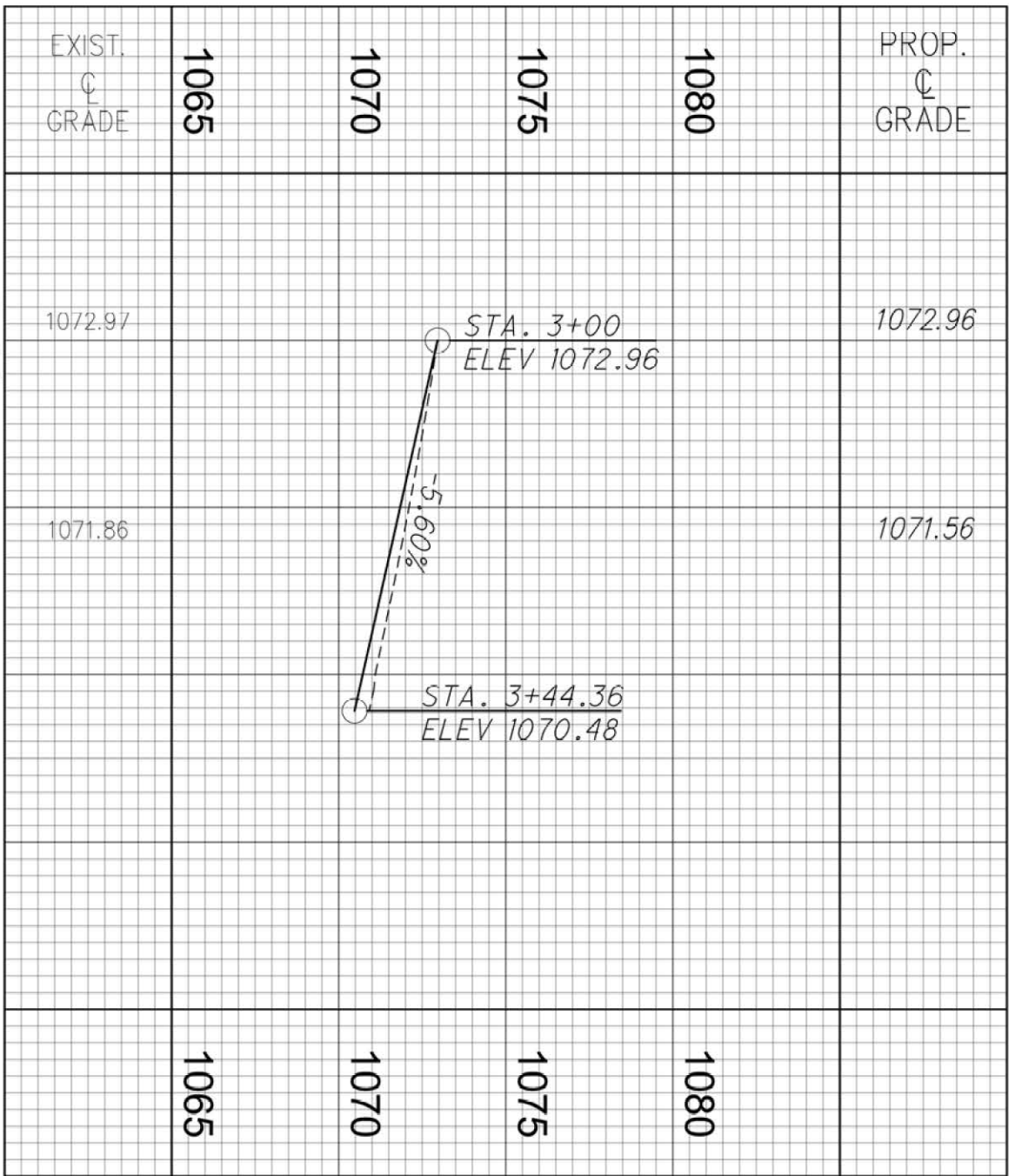
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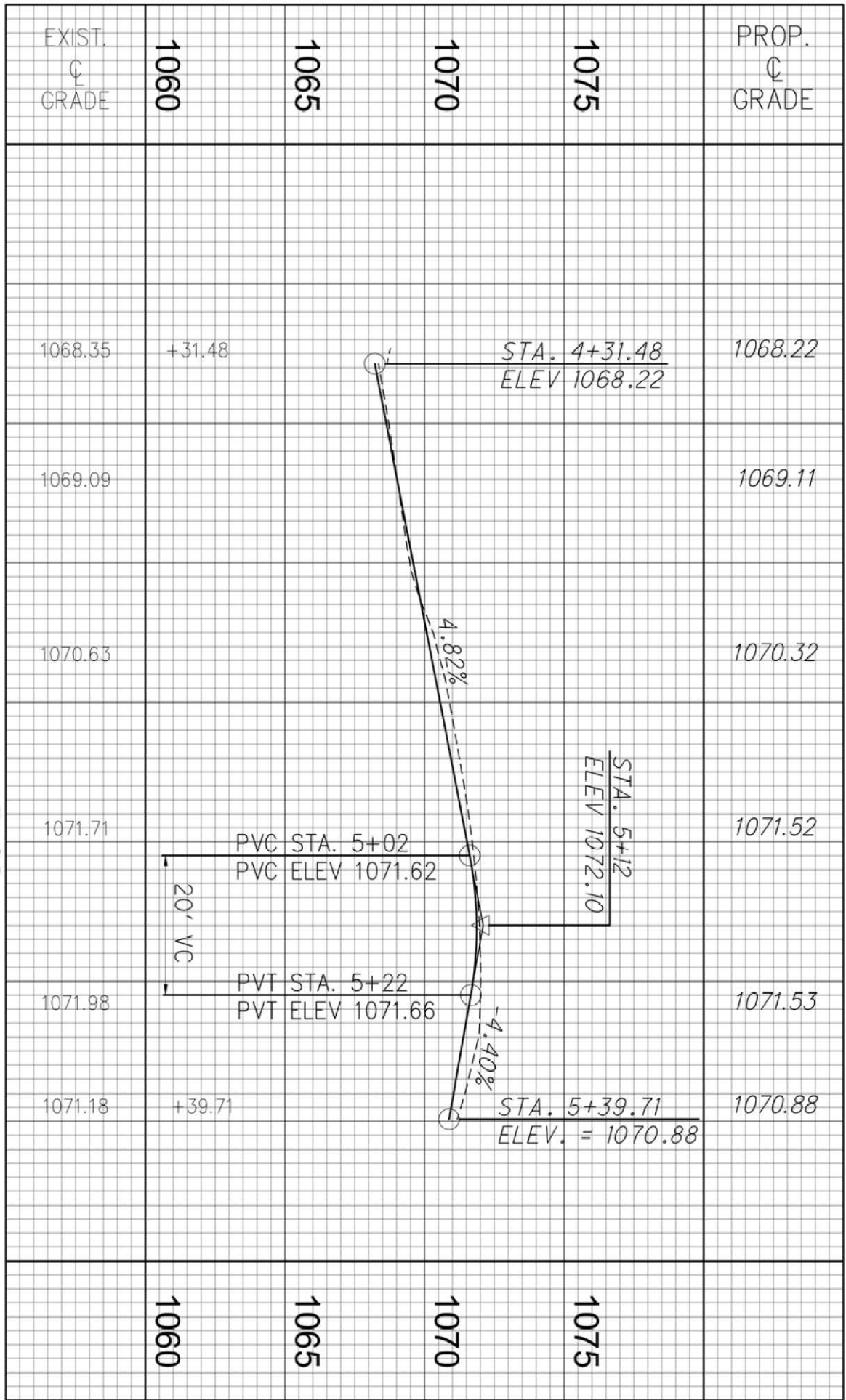
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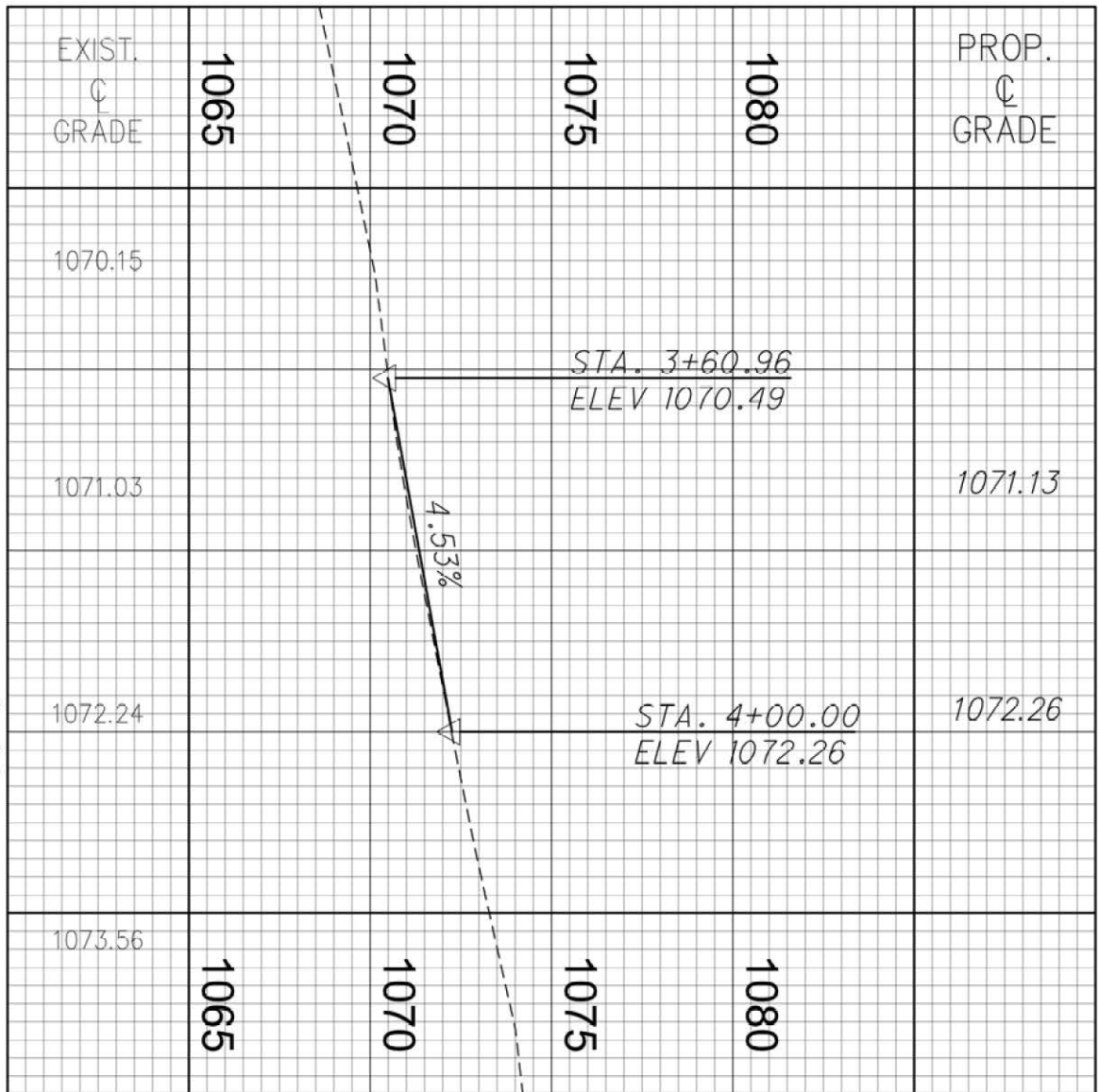
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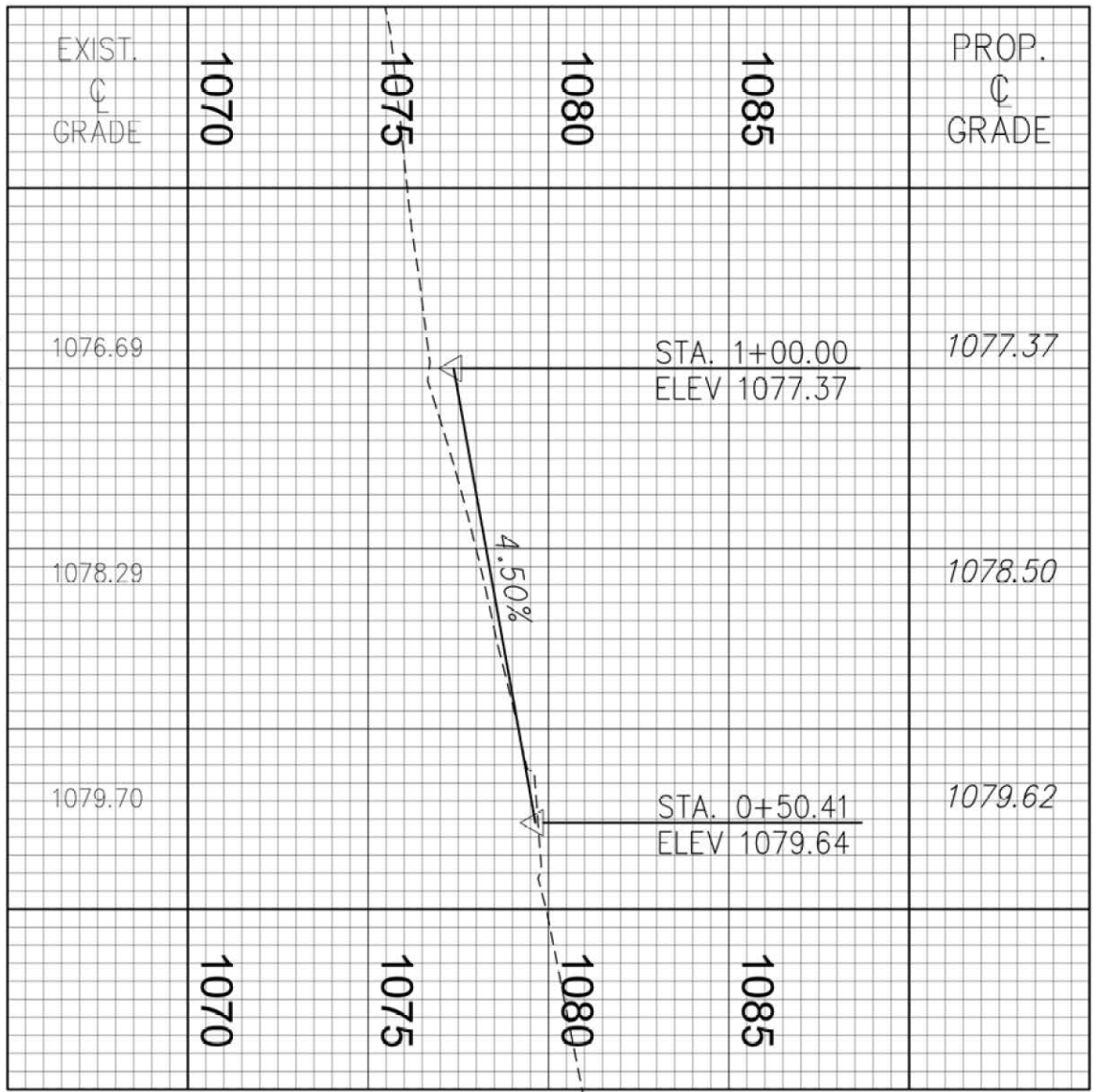
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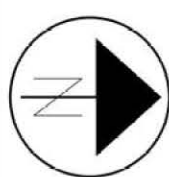
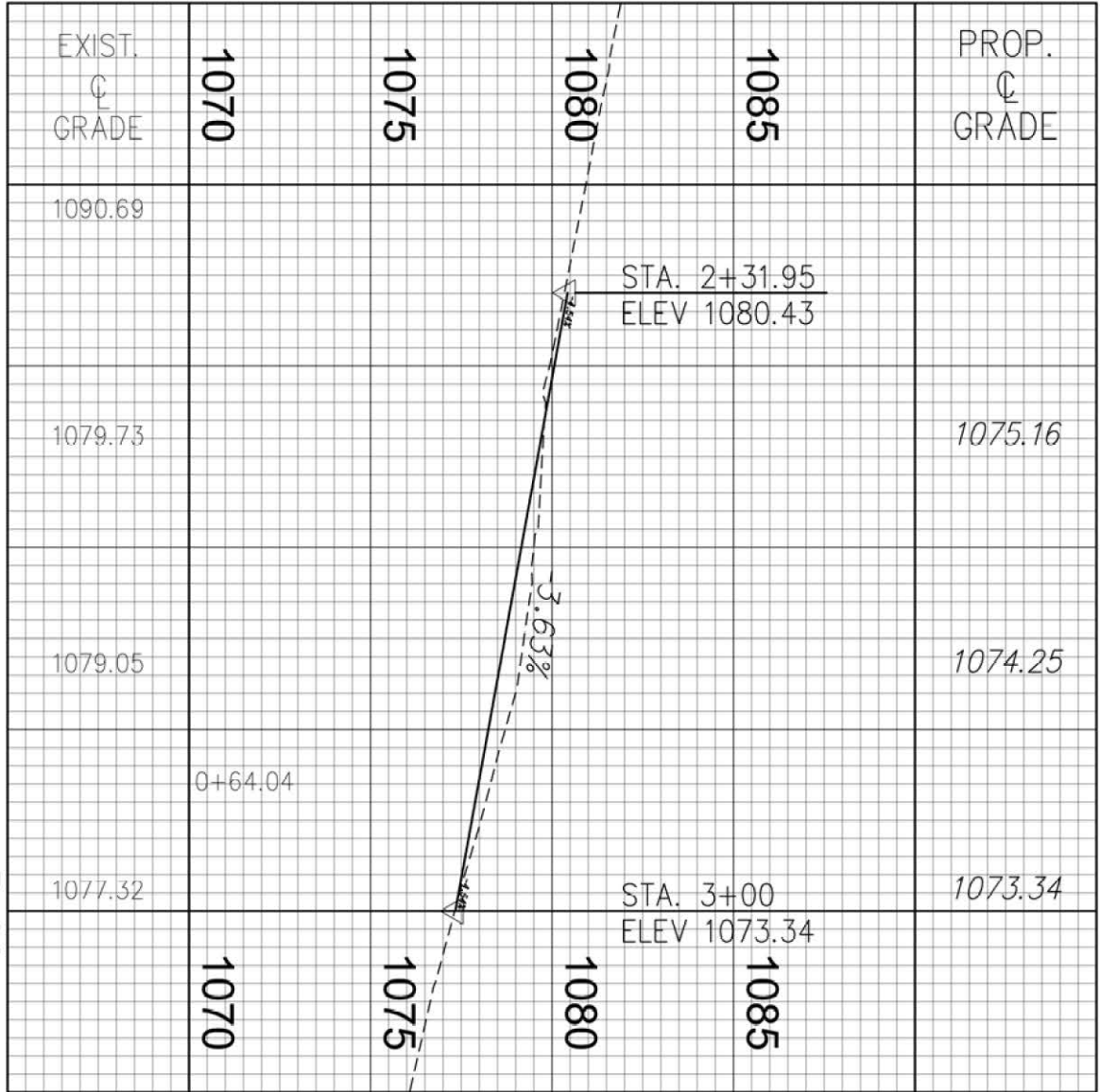
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Baseline WL



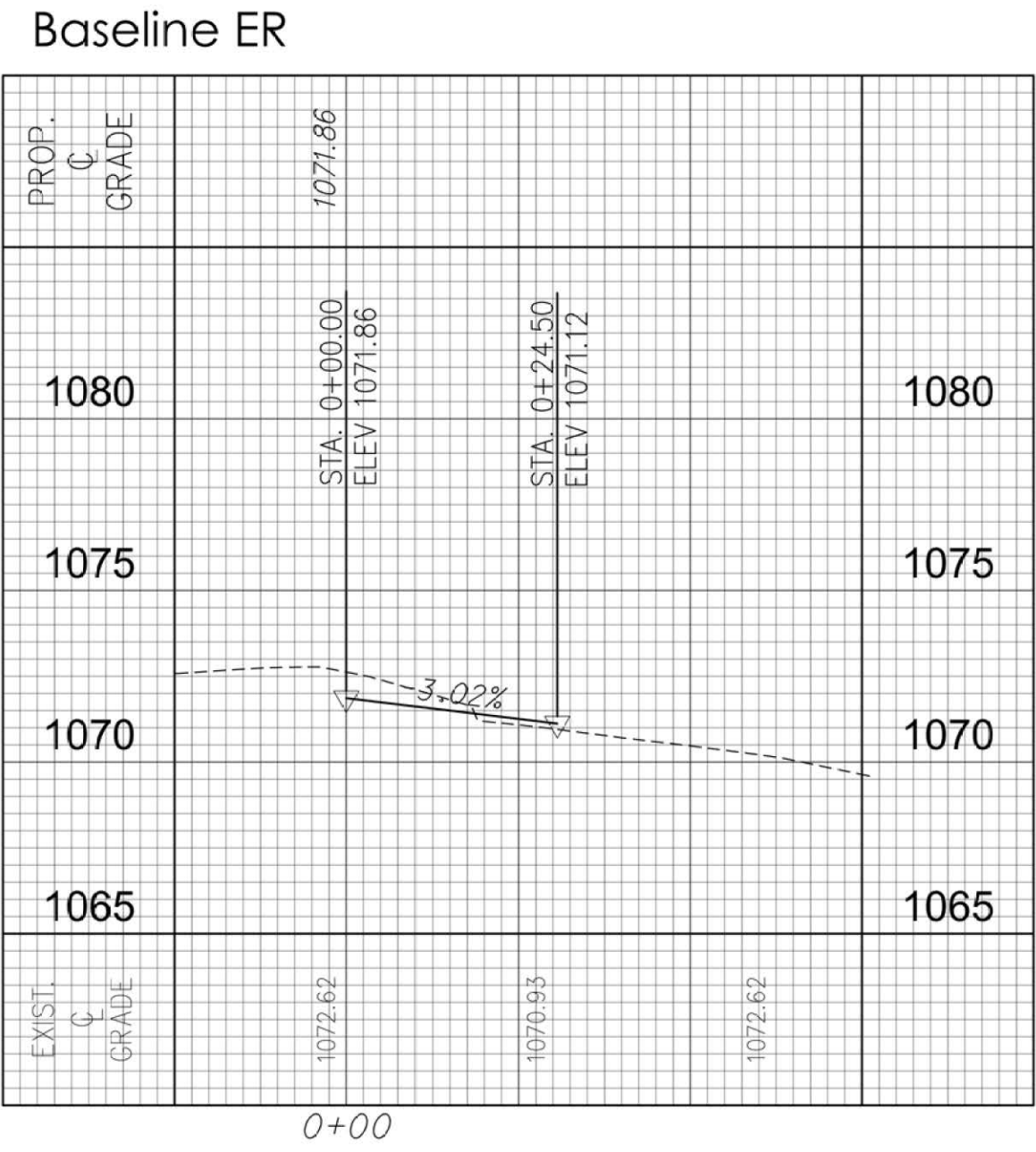
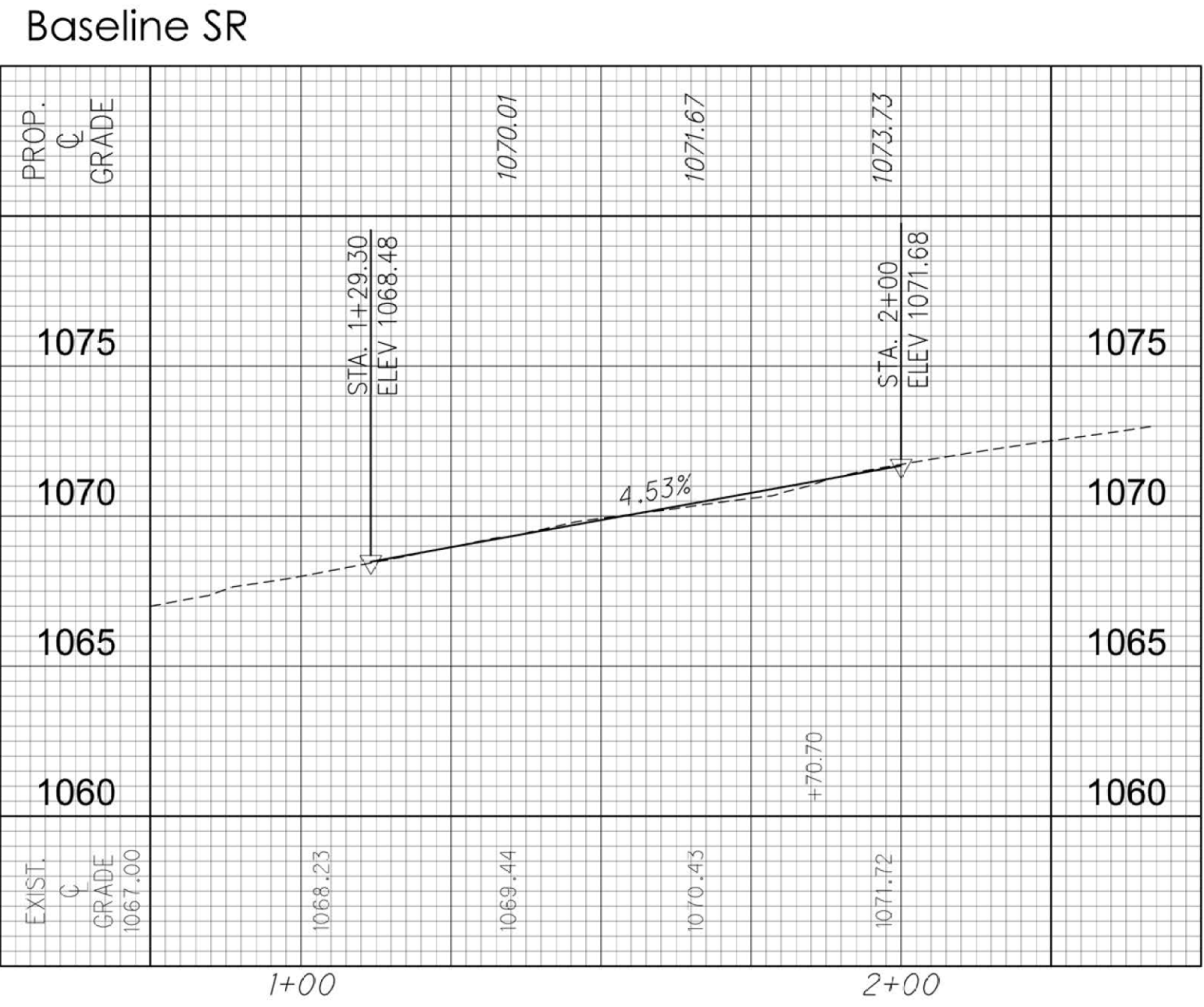
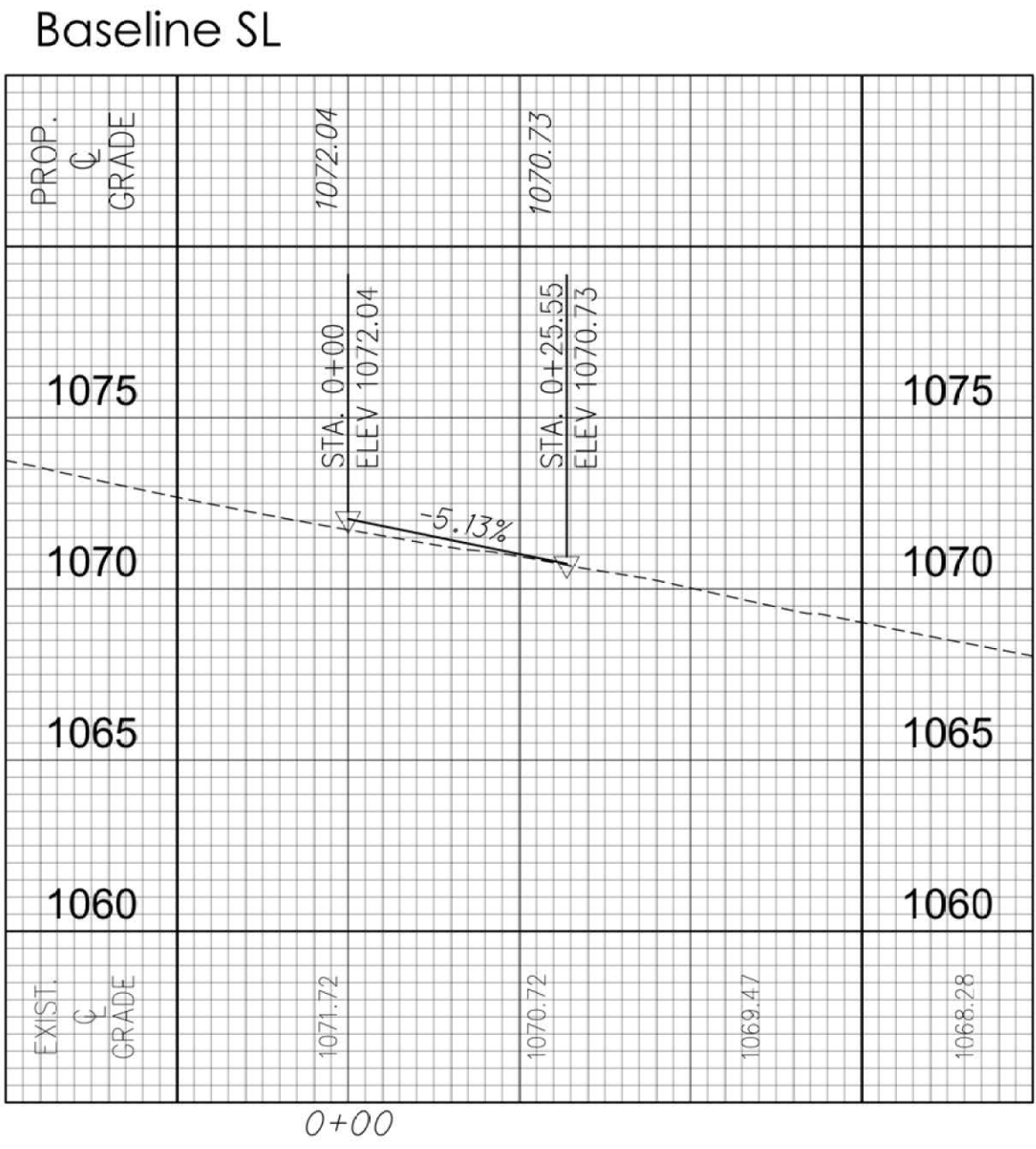
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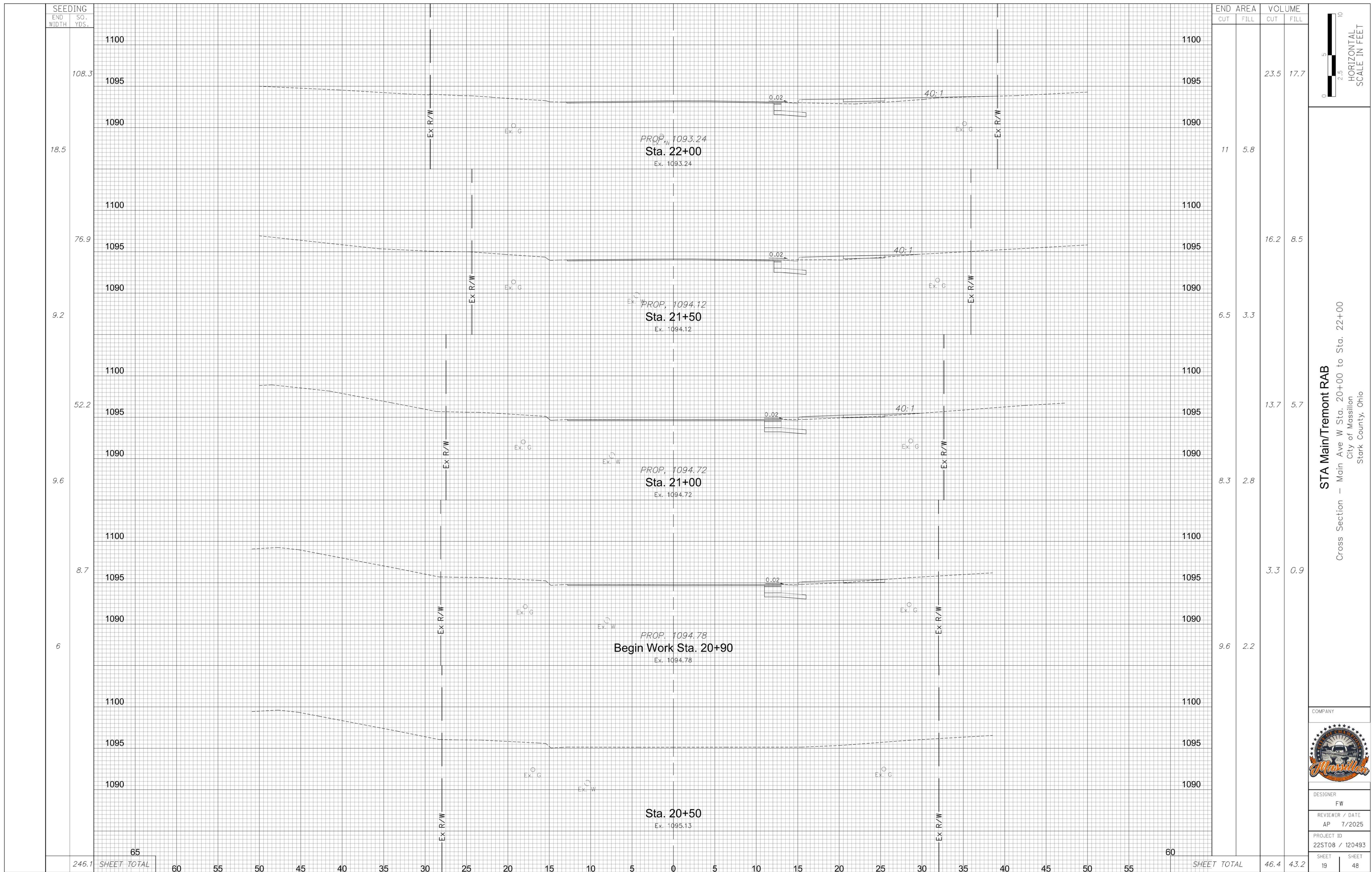


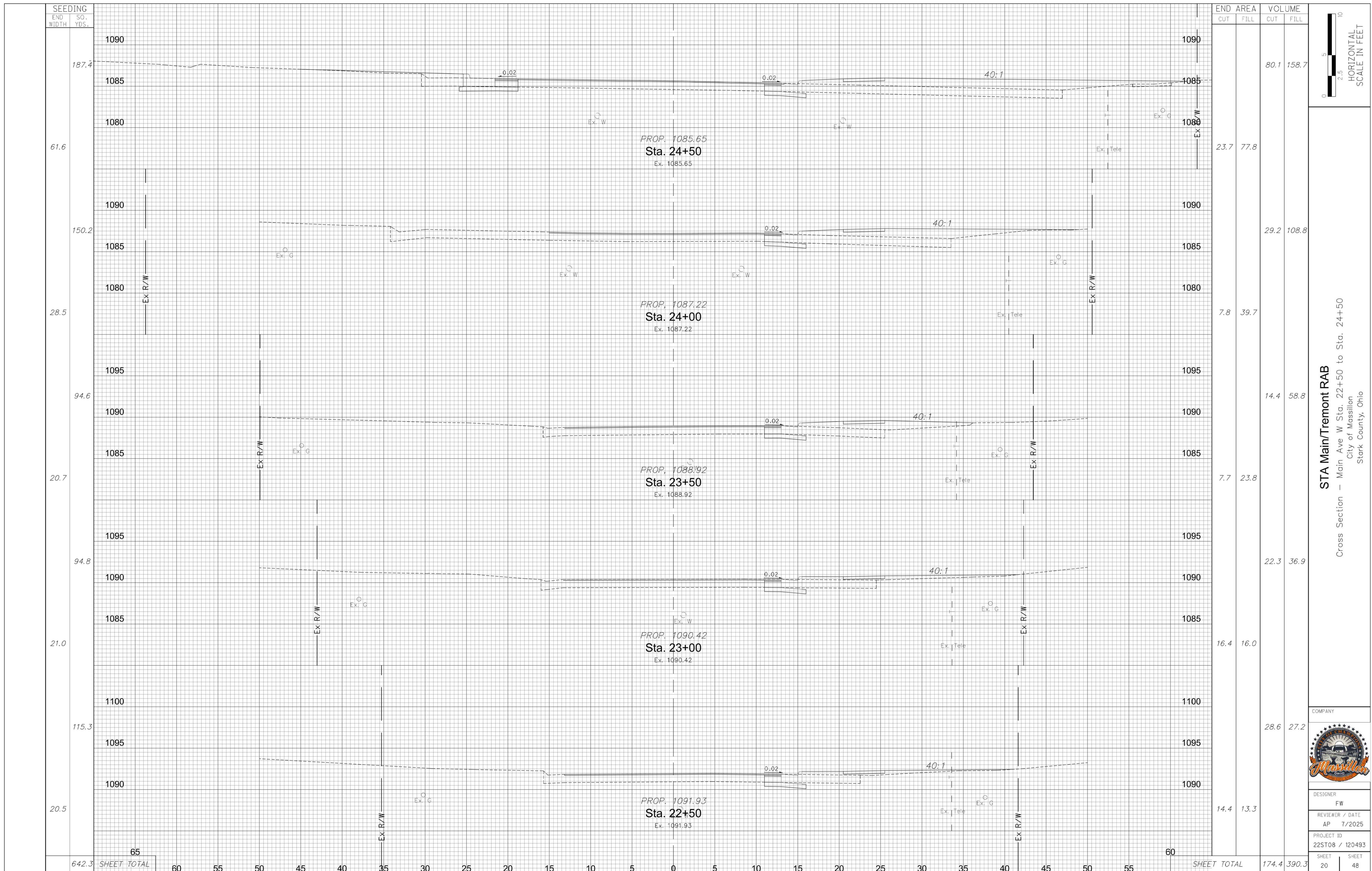
STA Main/Tremont RAB
Roundabout and Reference Profiles
City of Massillon
Stark County, Ohio

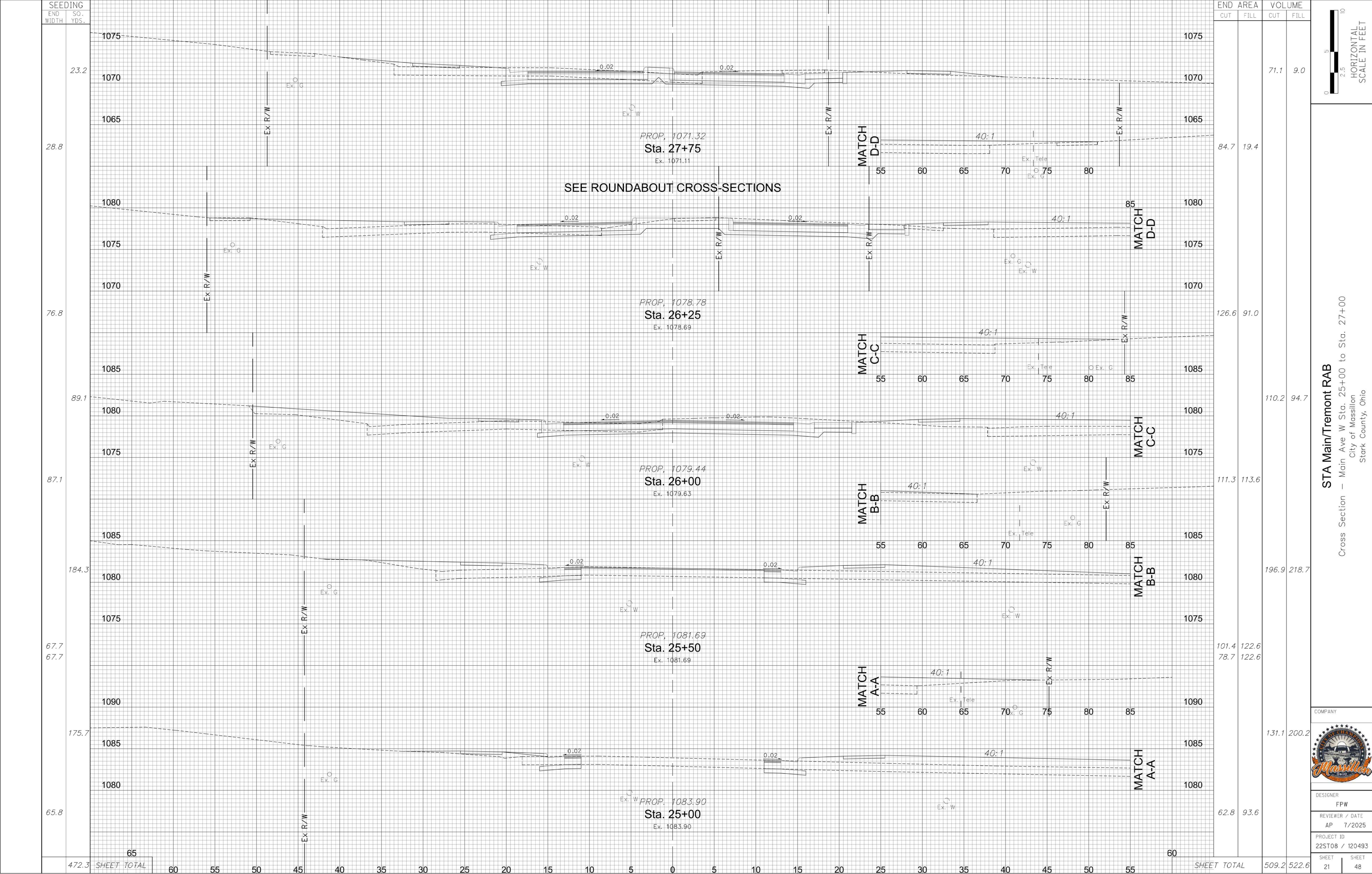


DESIGNER	FFW
REVIEWER / DATE	AP 7/2025
PROJECT ID	22s108 / 20493
SHEET NO.	17
TOTAL	48









STA Main/Tremont RAB

Cross Section — Main Ave W Sta. 25+00 to Sta. 27+00

City of Massillon

Stark County, Ohio

COMPANY



DESIGNER

FPW

REVIEWER / DATE

AP 7/2025

PROJECT ID

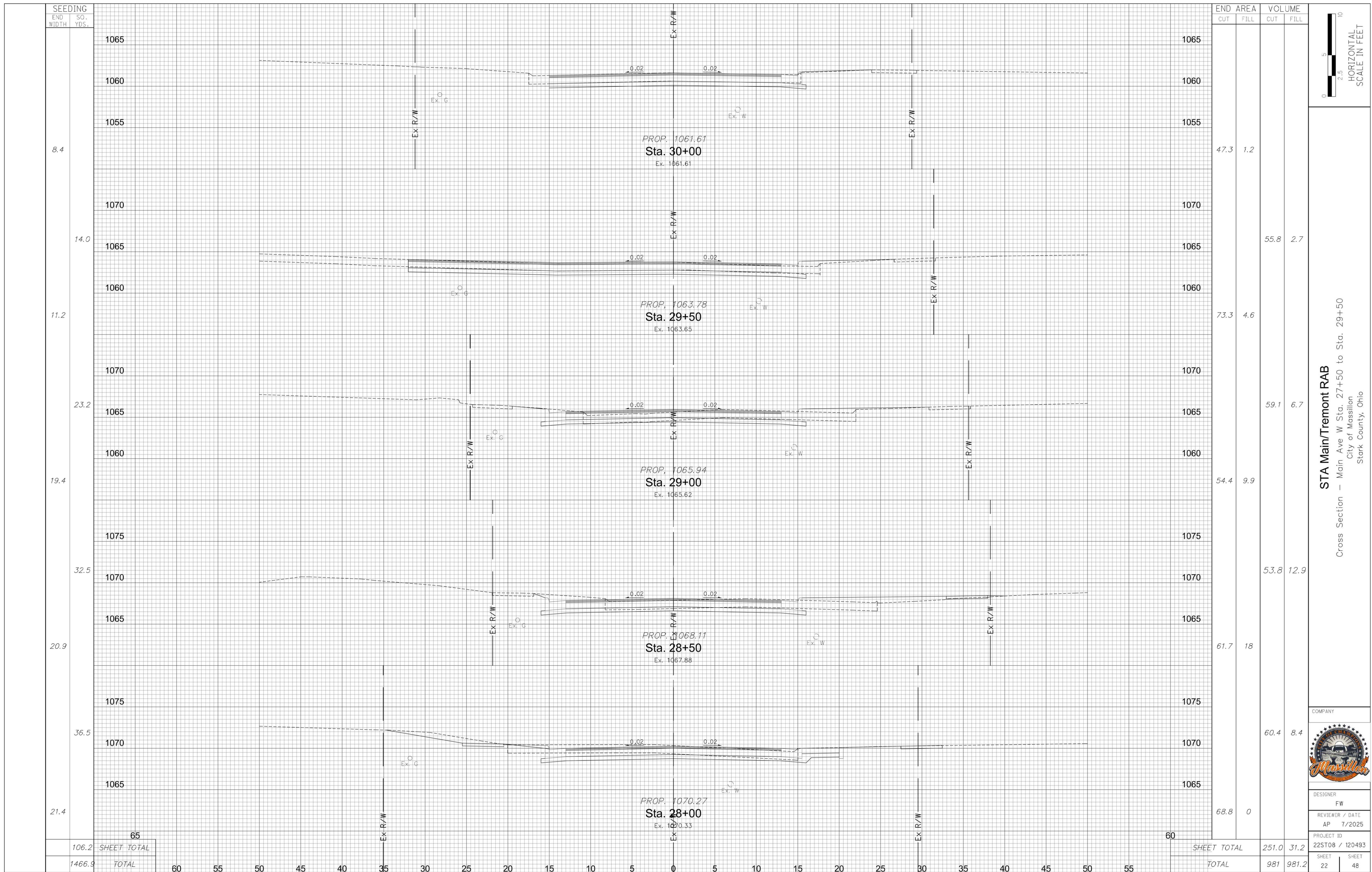
22ST08 / 120493

SHEET

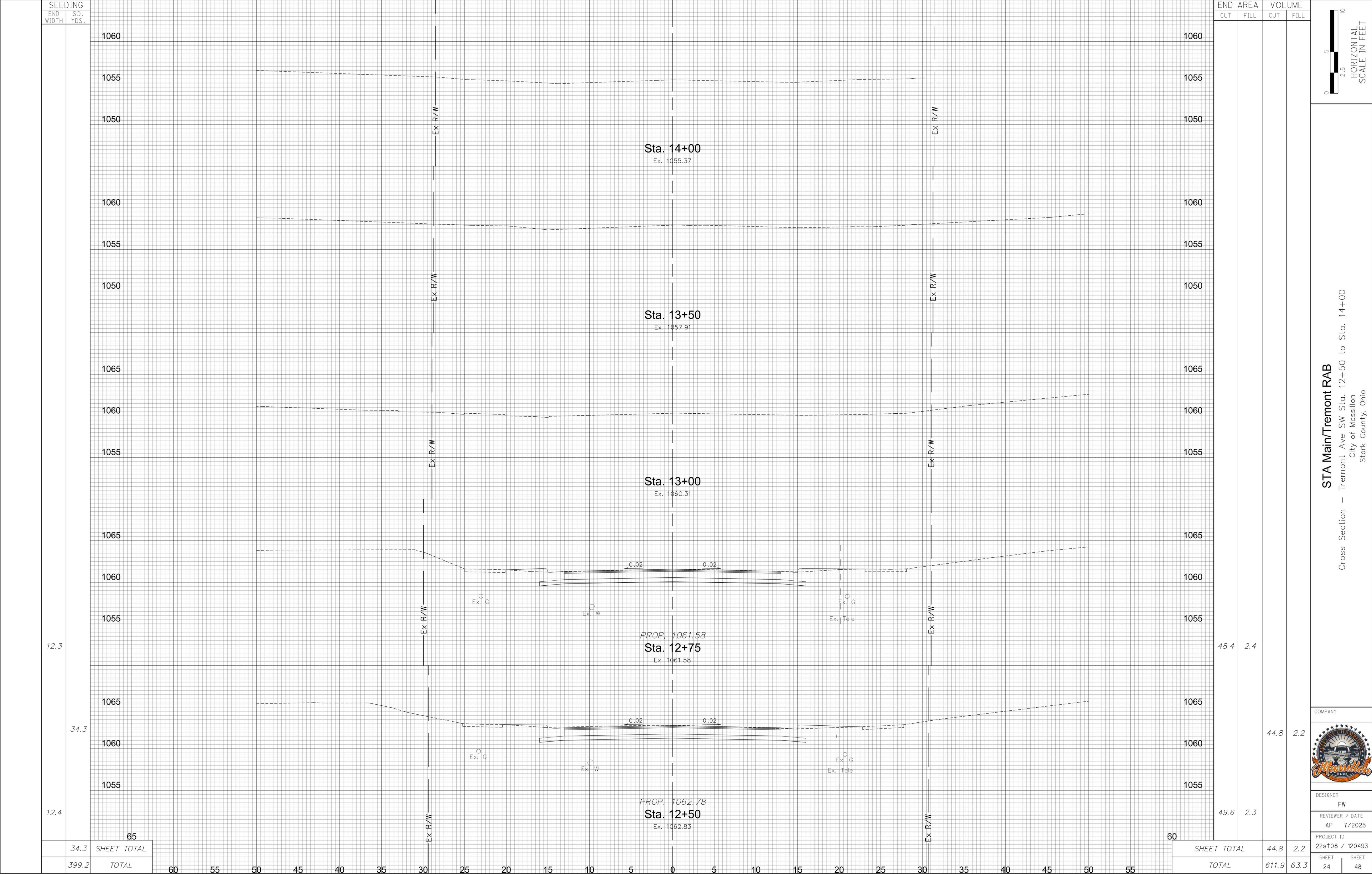
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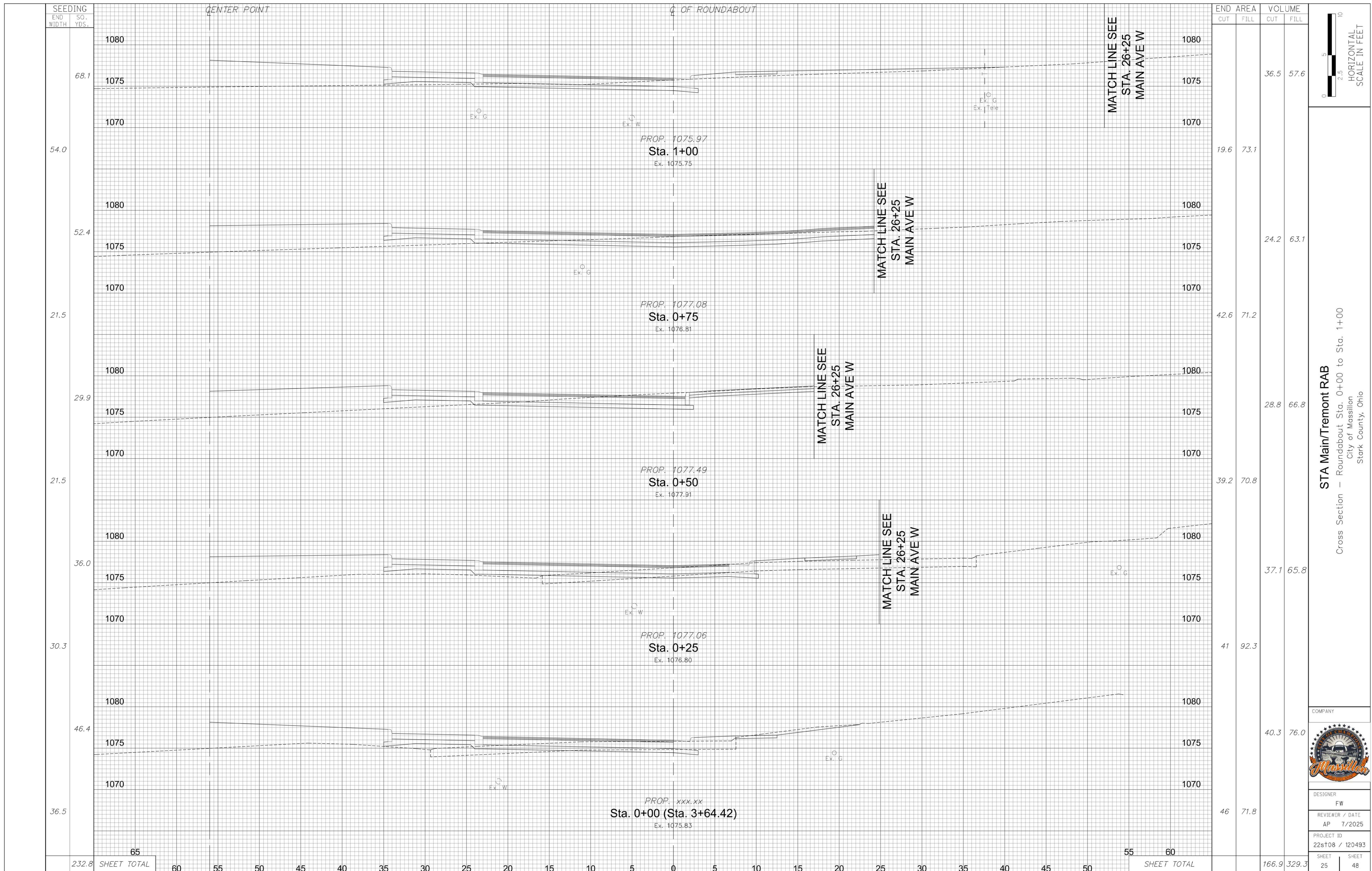
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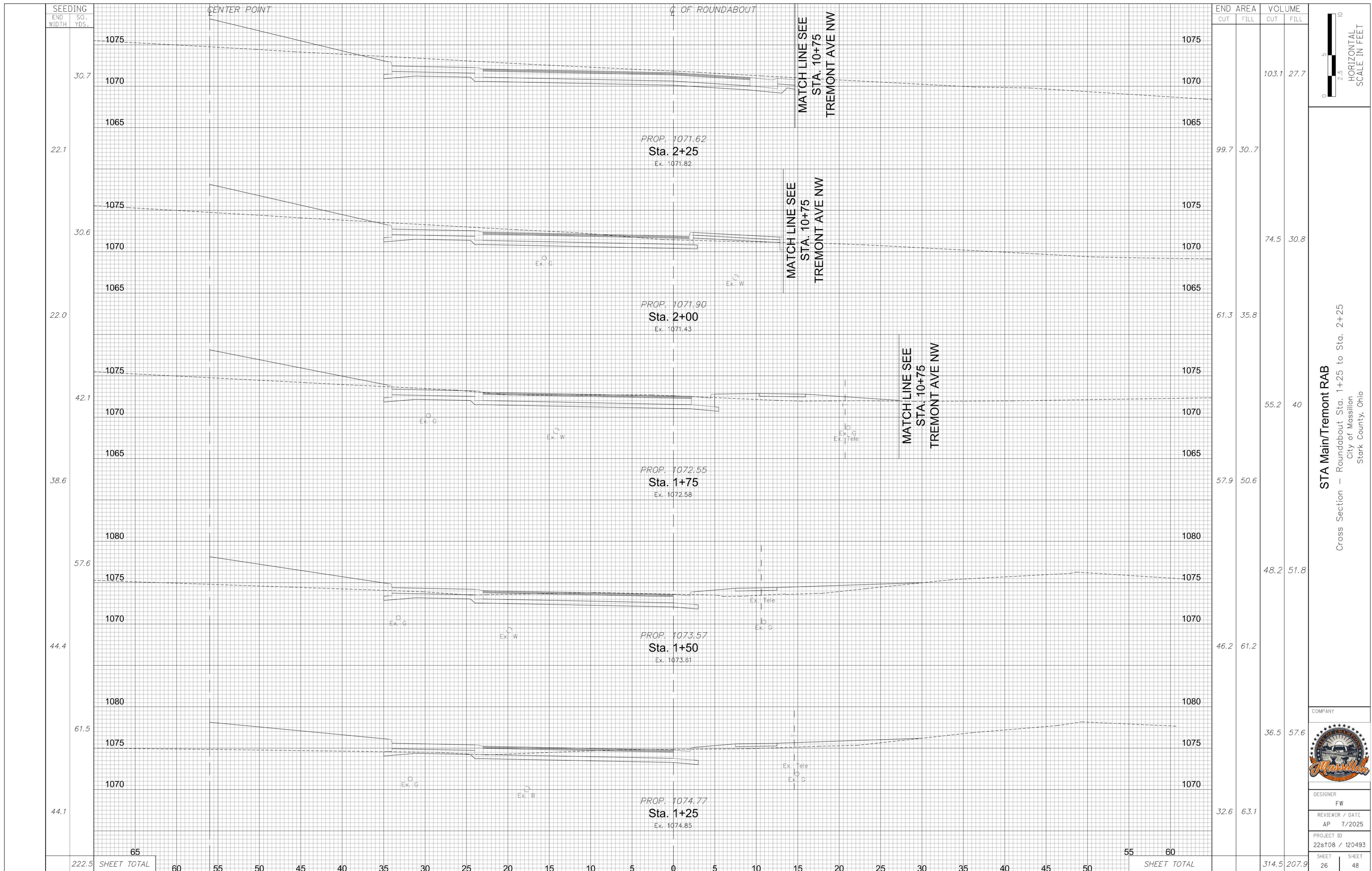
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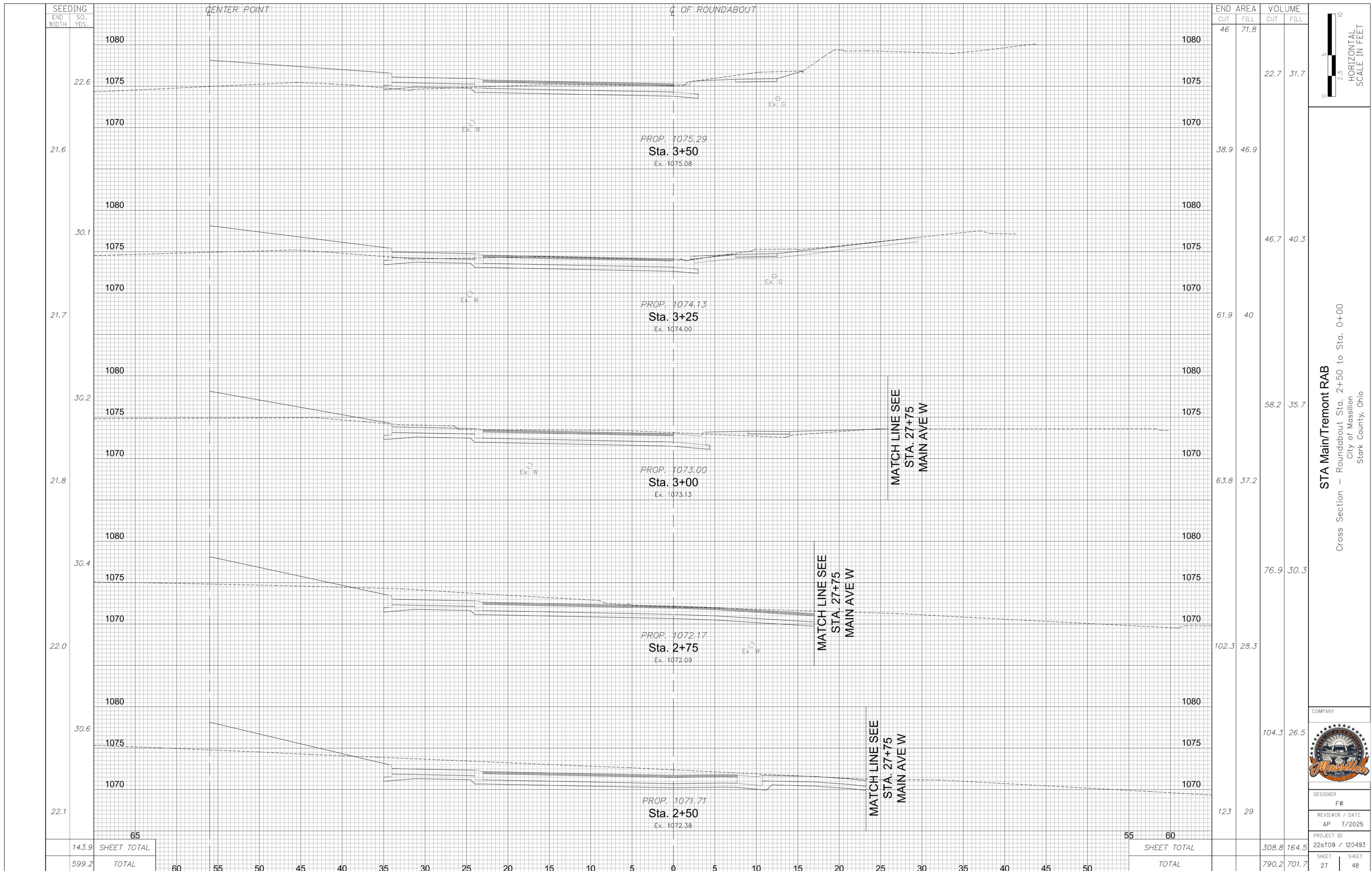


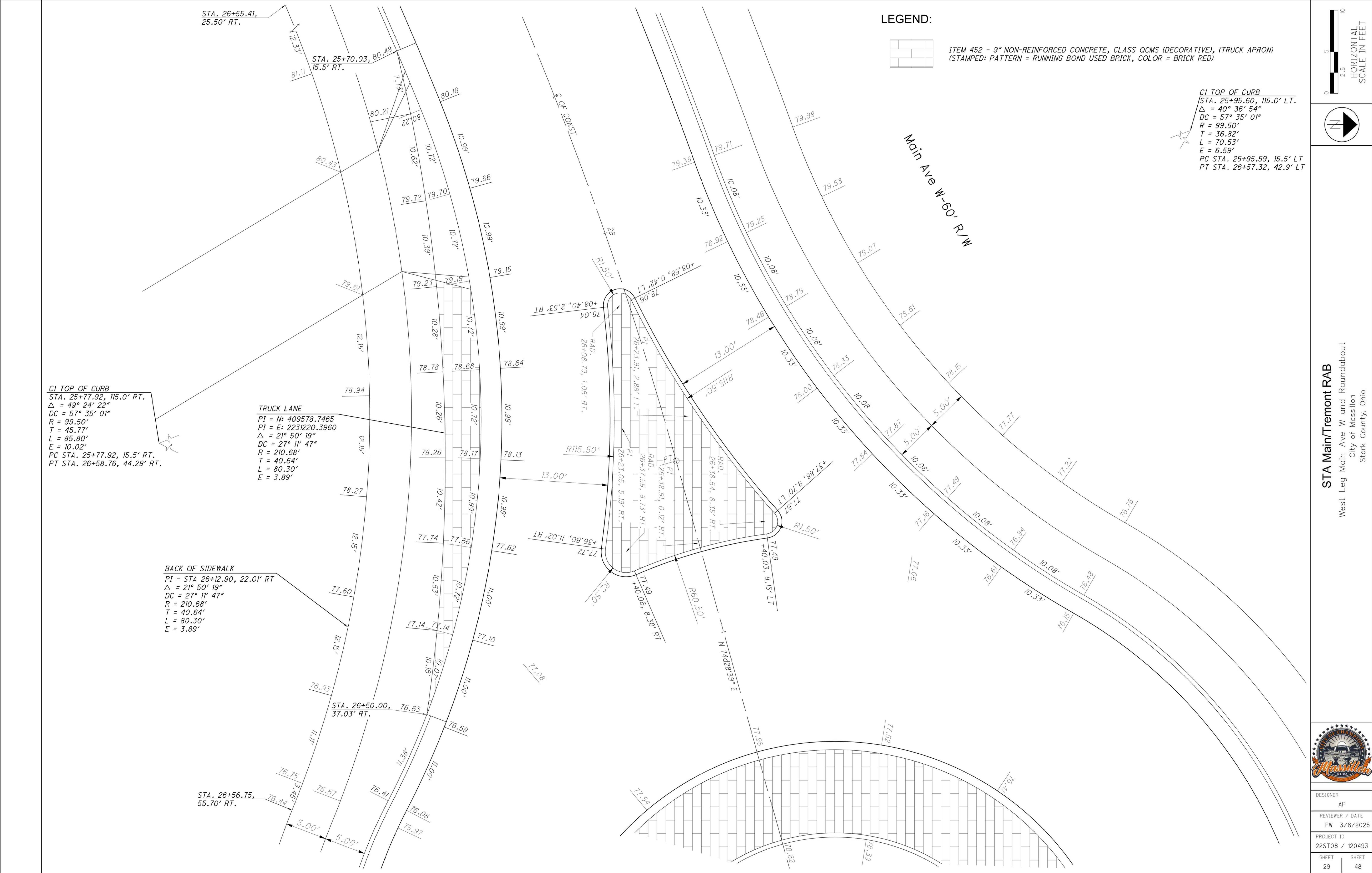
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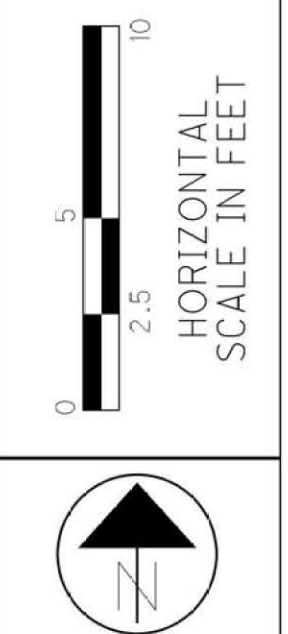








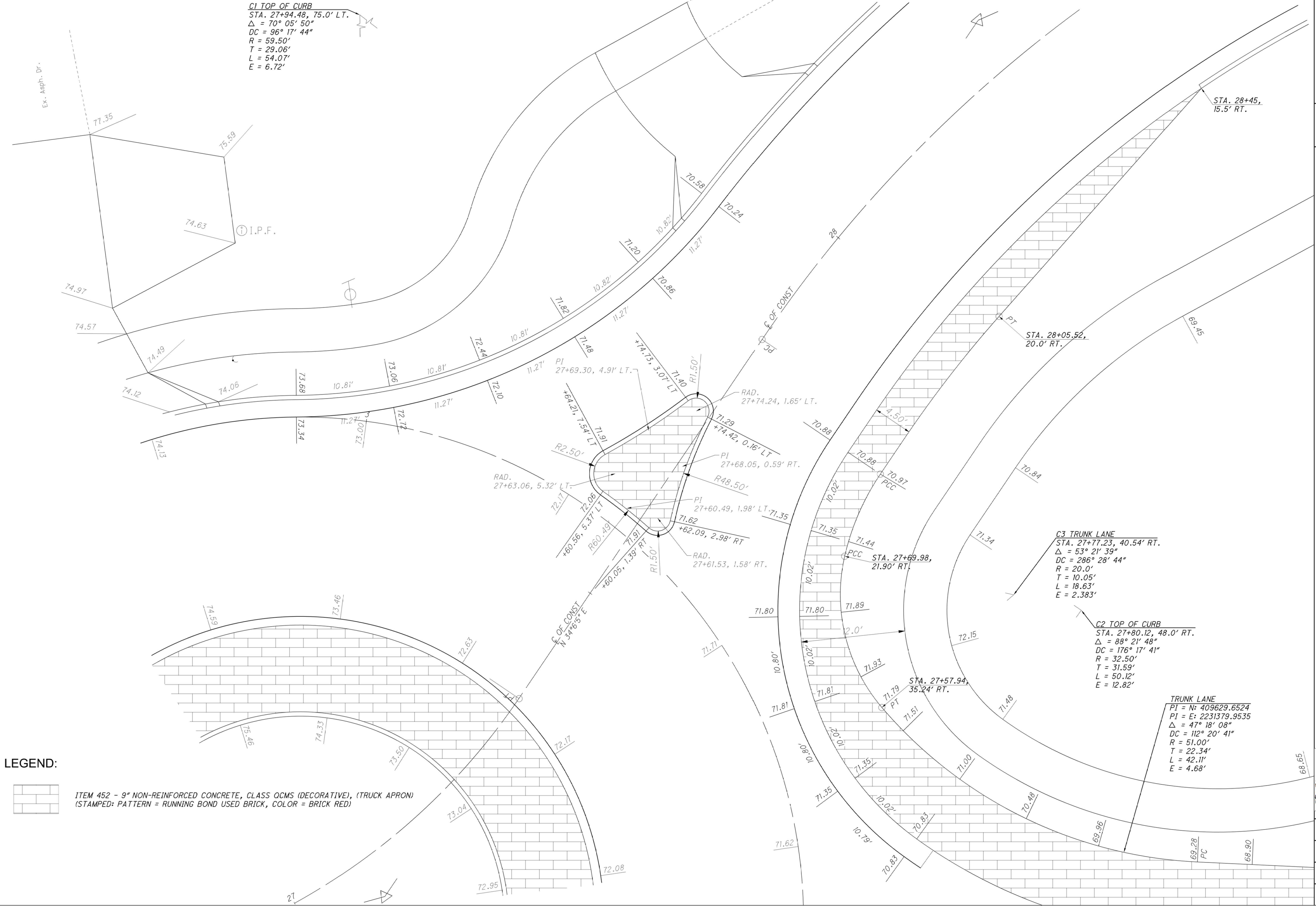
C1 TOP OF CURB
STA. 27+94.48, 75.0' LT.
 $\Delta = 70^\circ 05' 50''$
DC = 96° 17' 44"
R = 59.50'
T = 29.06'
L = 54.07'
E = 6.72'



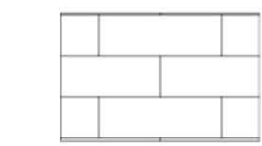
STA Main/Tremont RAB
East Leg Main Ave w
City of Massillon
Stark County, Ohio



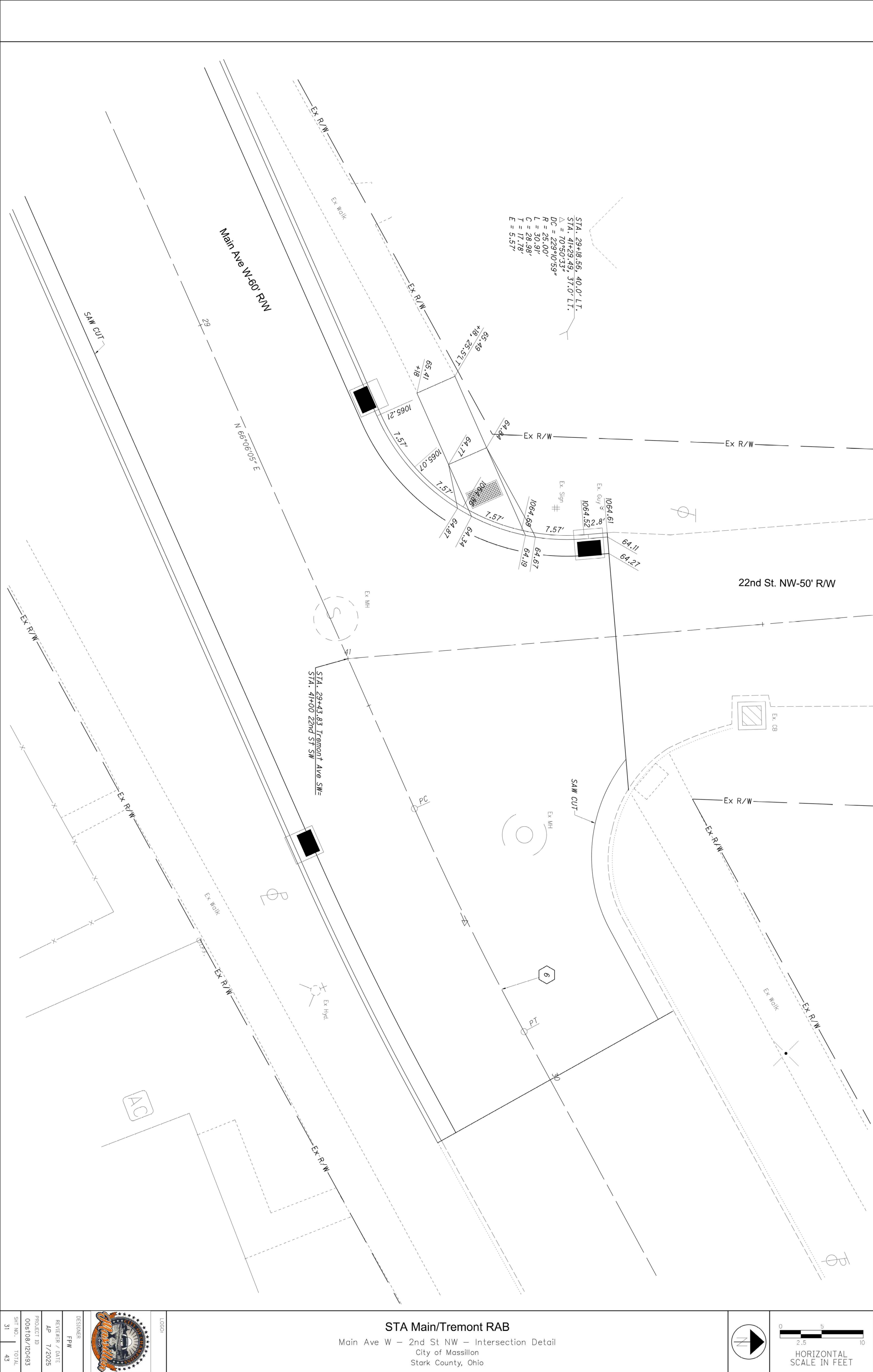
DESIGNER	AP
REVIEWER / DATE	FW 3/6/2025
PROJECT ID	22ST08 / 120493
SHEET	30
SHEET	48



LEGEND:

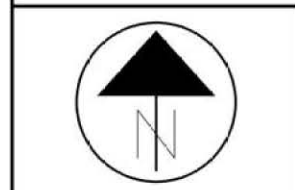
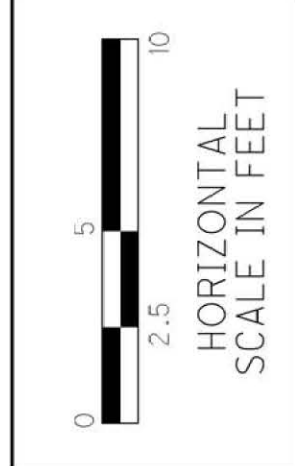
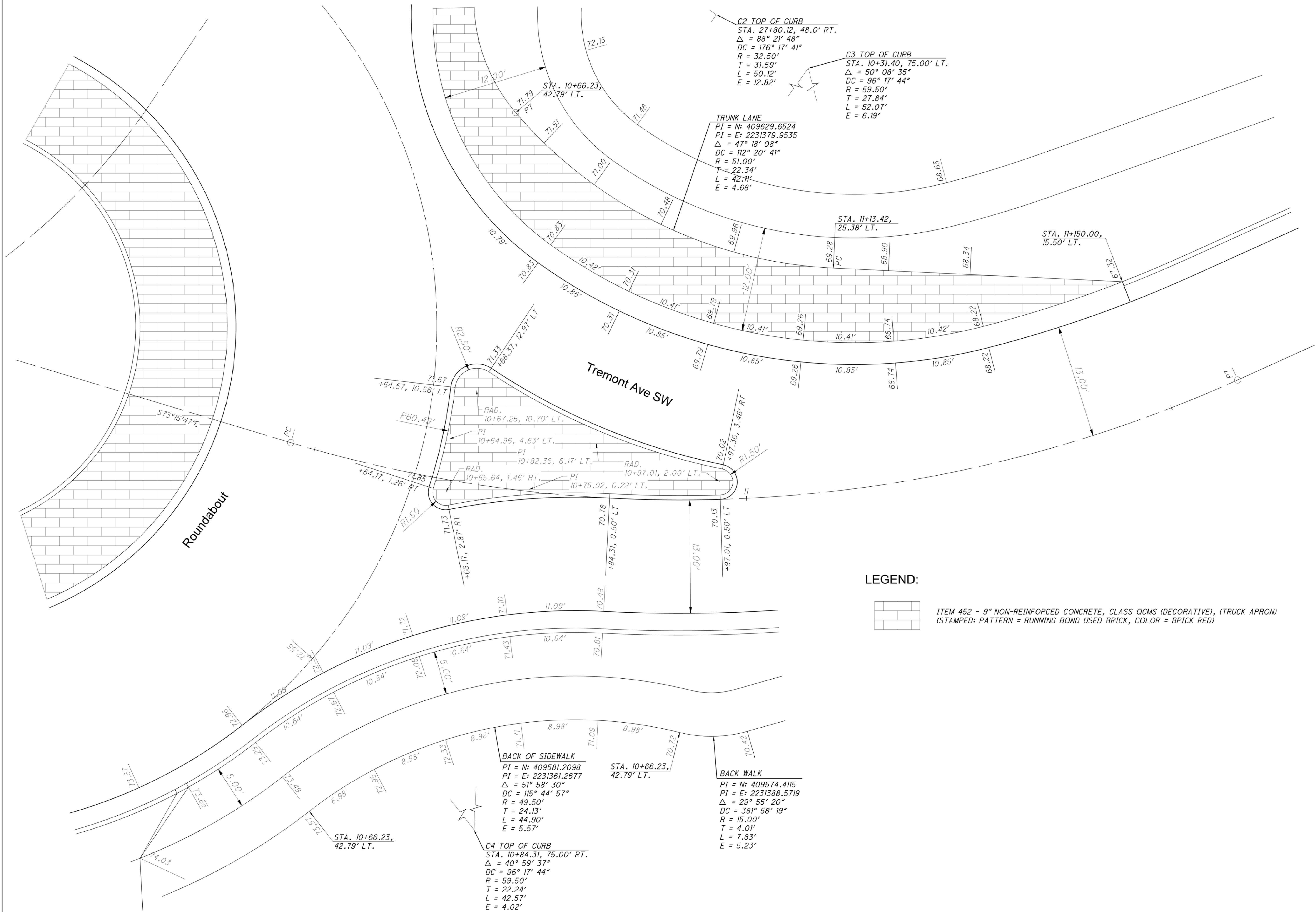


ITEM 452 - 9" NON-REINFORCED CONCRETE, CLASS QCMS (DECORATIVE), (TRUCK APRON)
(STAMPED: PATTERN = RUNNING BOND USED BRICK, COLOR = BRICK RED)



STA Main/Tremont RAB				Main Ave W – 2nd St NW – Intersection Detail				City of Massillon				Stark County, Ohio			
DESIGNER				FPW				REVIEWER / DATE				AP 7/2025			
PROJECT ID				00S108/120-93				SHEET NO.				TOTAL			
31				43											

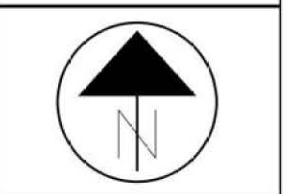
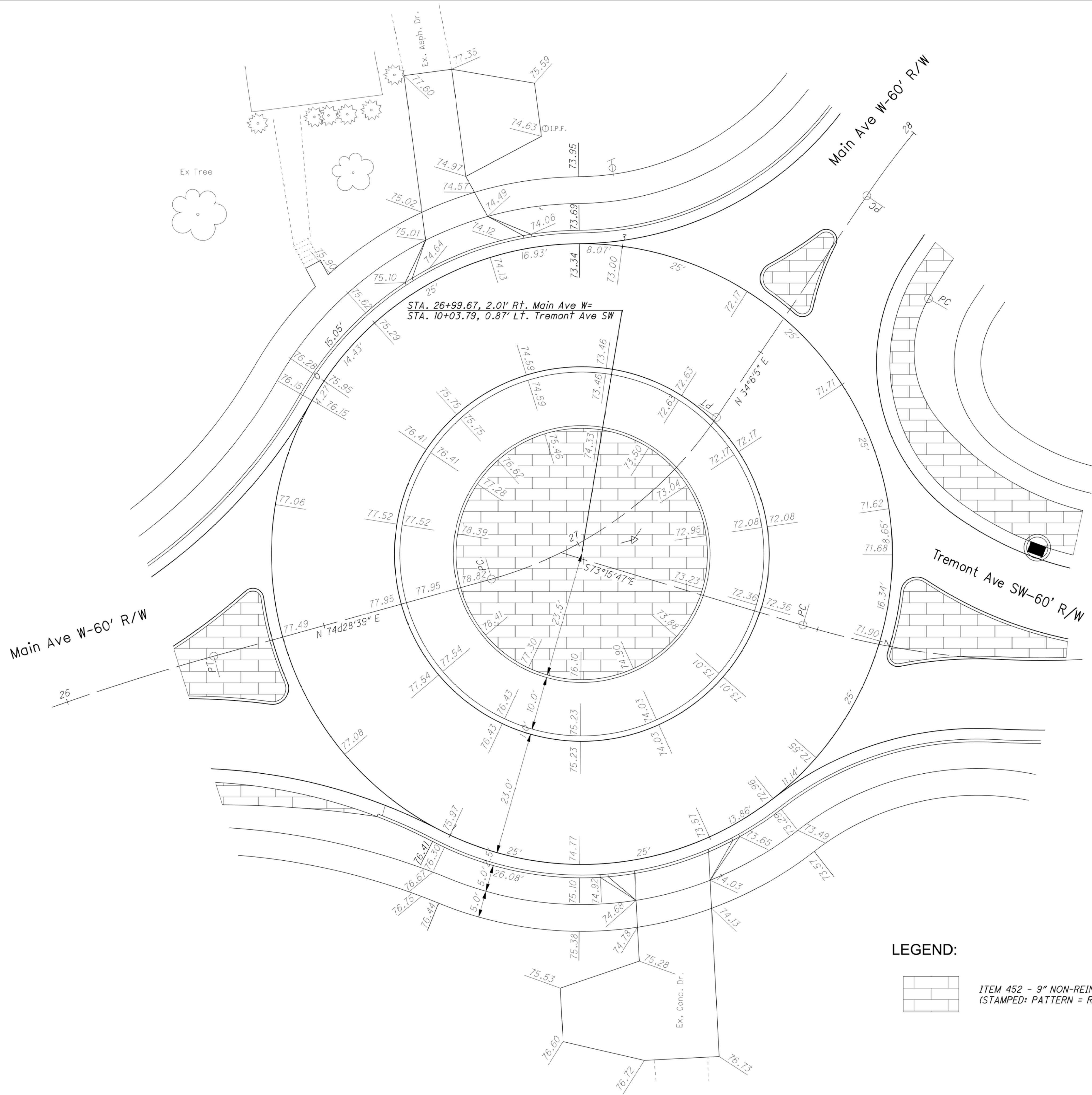
HORIZONTAL
SCALE IN FEET



STA Main/Tremont RAB
Tremont Ave SW and Roundabout
City of Massillon
Stark County, Ohio



DESIGNER	
AP	
REVIEWER / DATE	
FW 3/6/2025	
PROJECT ID	
22ST08 / 120493	
SHEET	SHEET
32	48

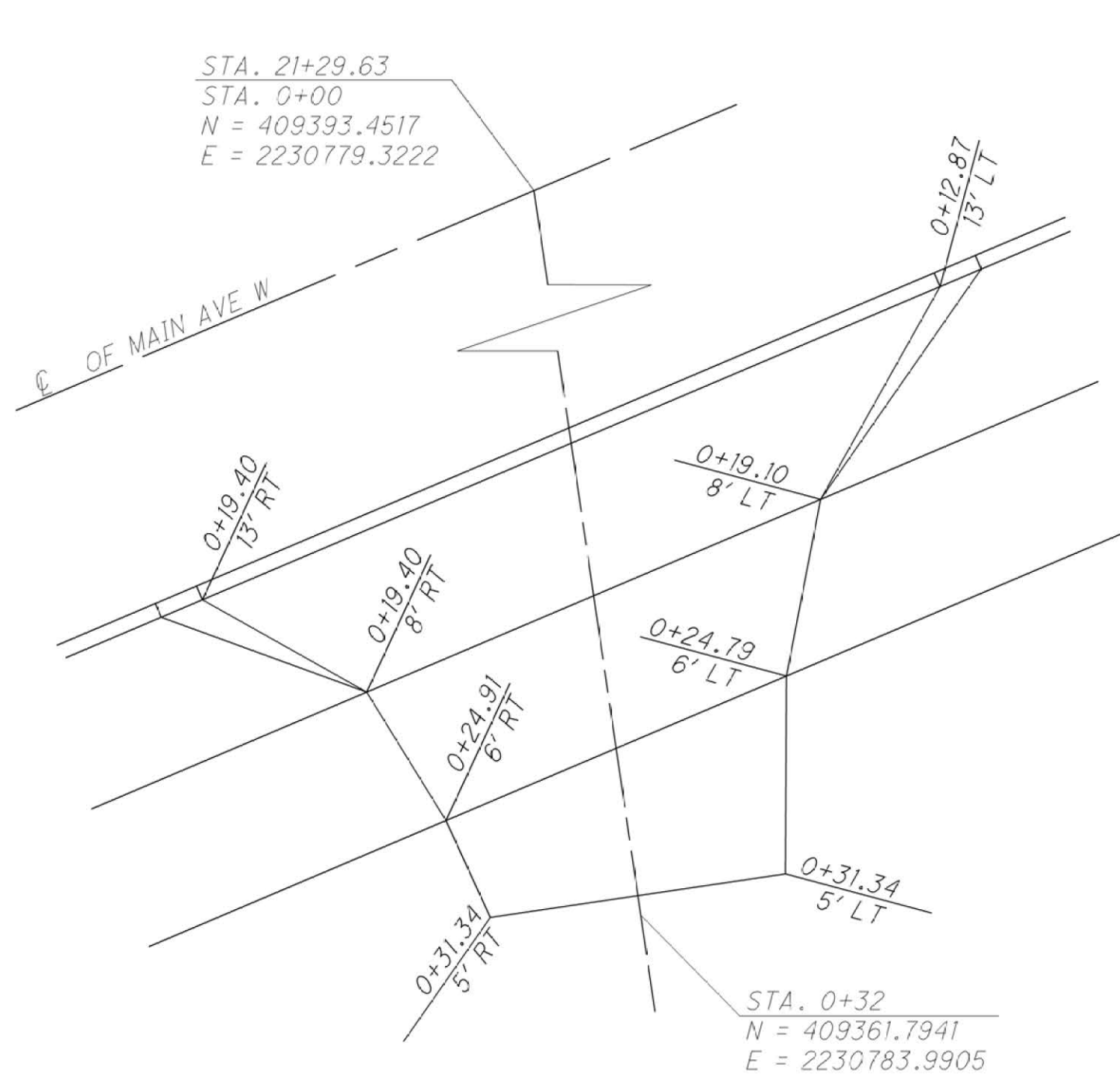


STA Main/Tremont RAB
Roundabout Detail
City of Massillon
Stark County, Ohio

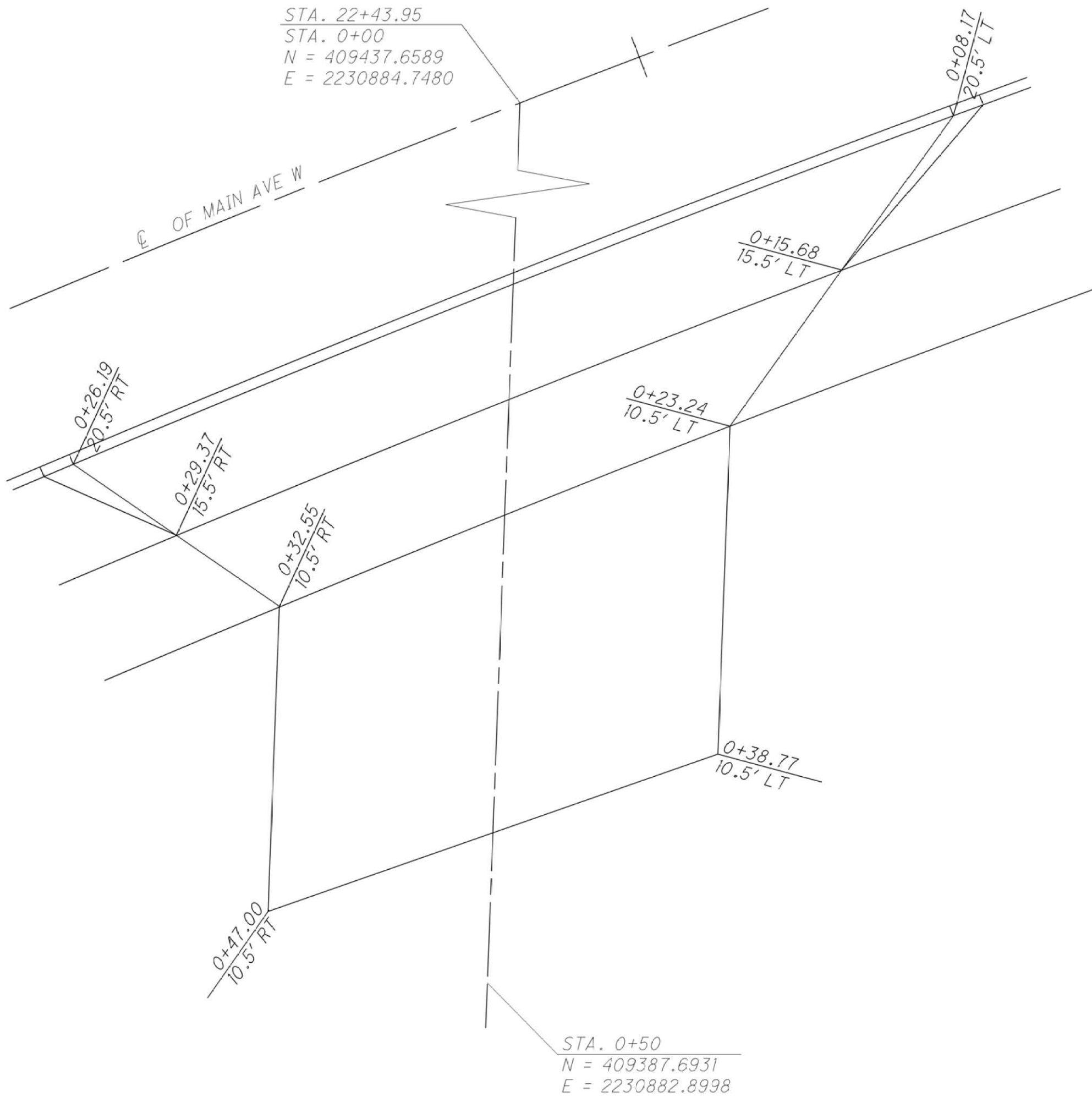
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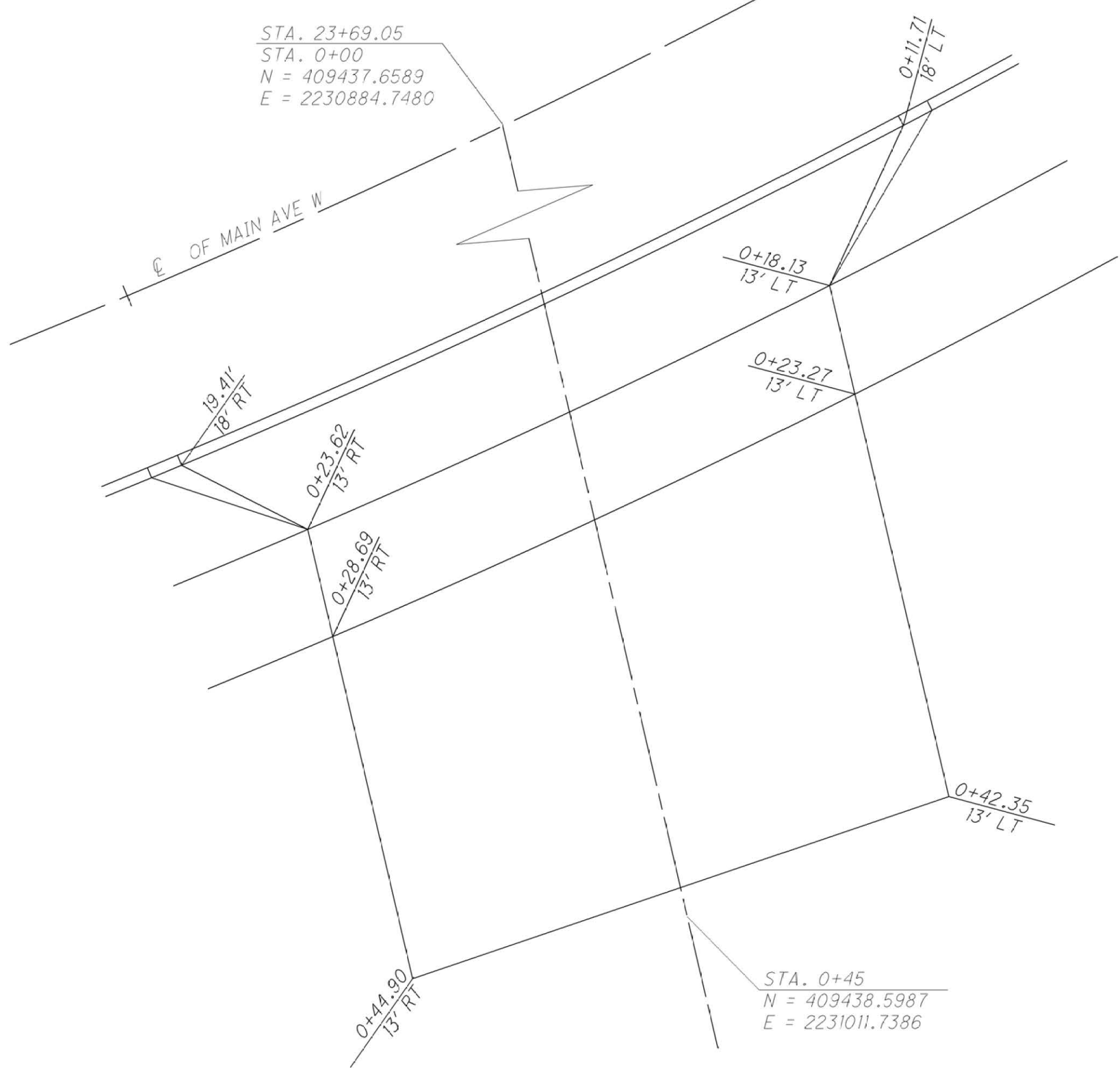
DESIGNER	
FPW	
REVIEWER / DATE	
AP 7/2025	
PROJECT ID	
00s108 / 120493	
SHT NO.	TOTAL
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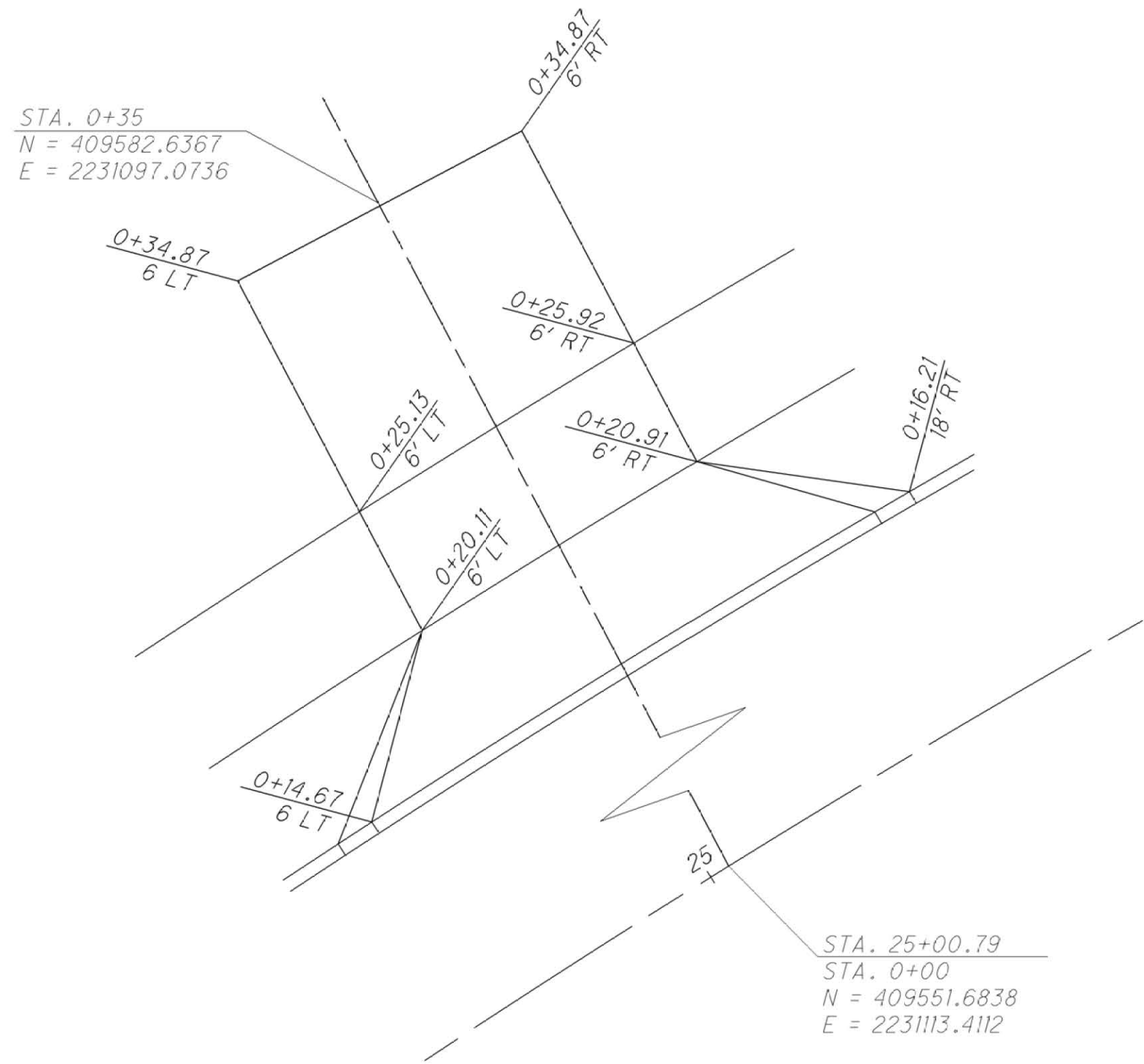
DR-1 Sta. 21+29.63 Main Ave W



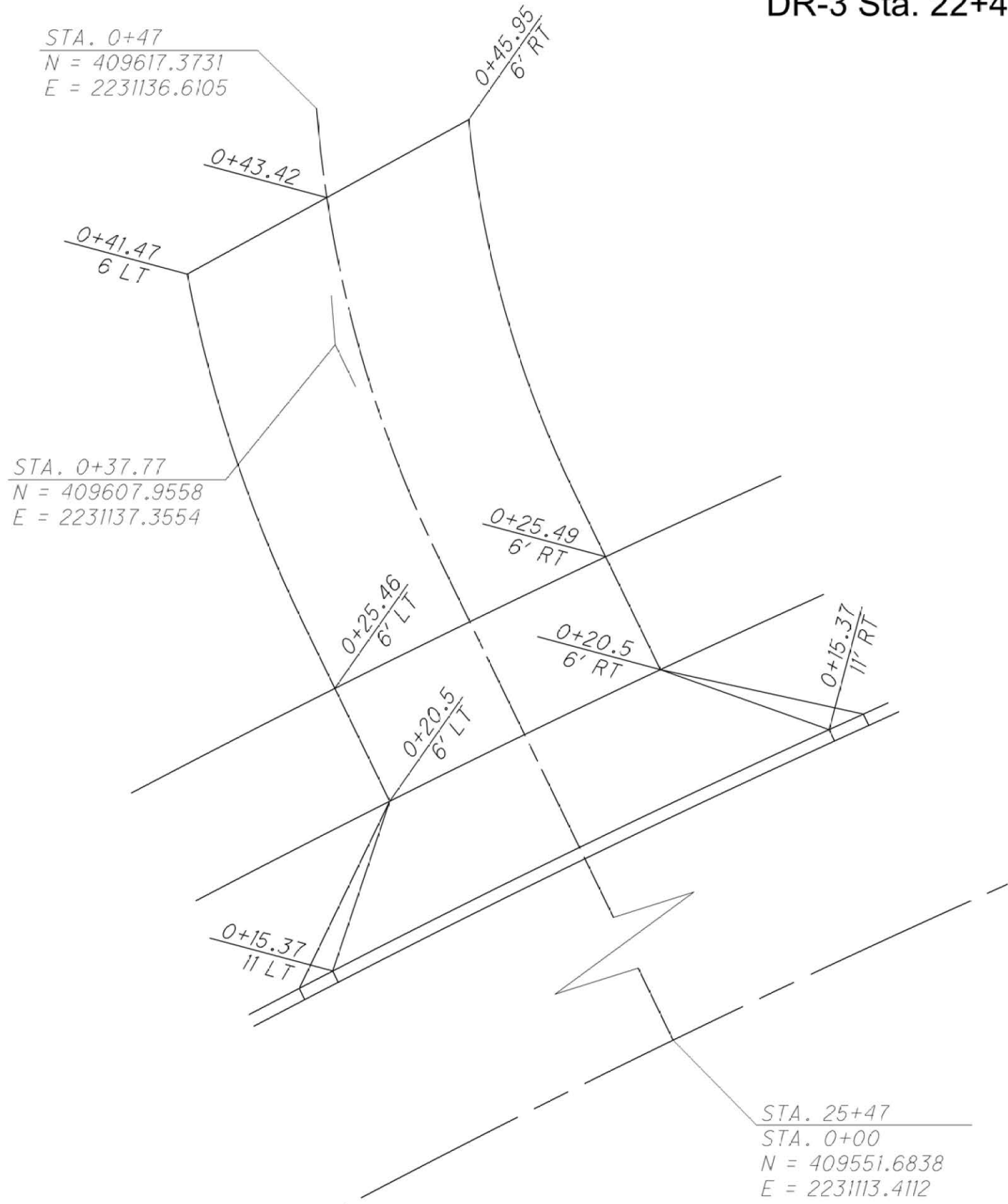
DR-2 Sta. 22+43.95 Main Ave W



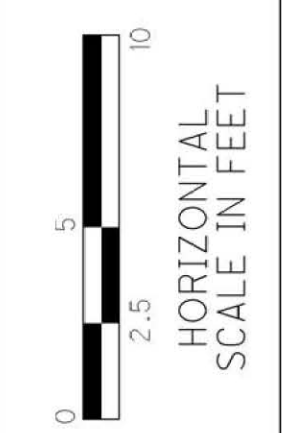
DR-3 Sta. 22+43.95 Main Ave W



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



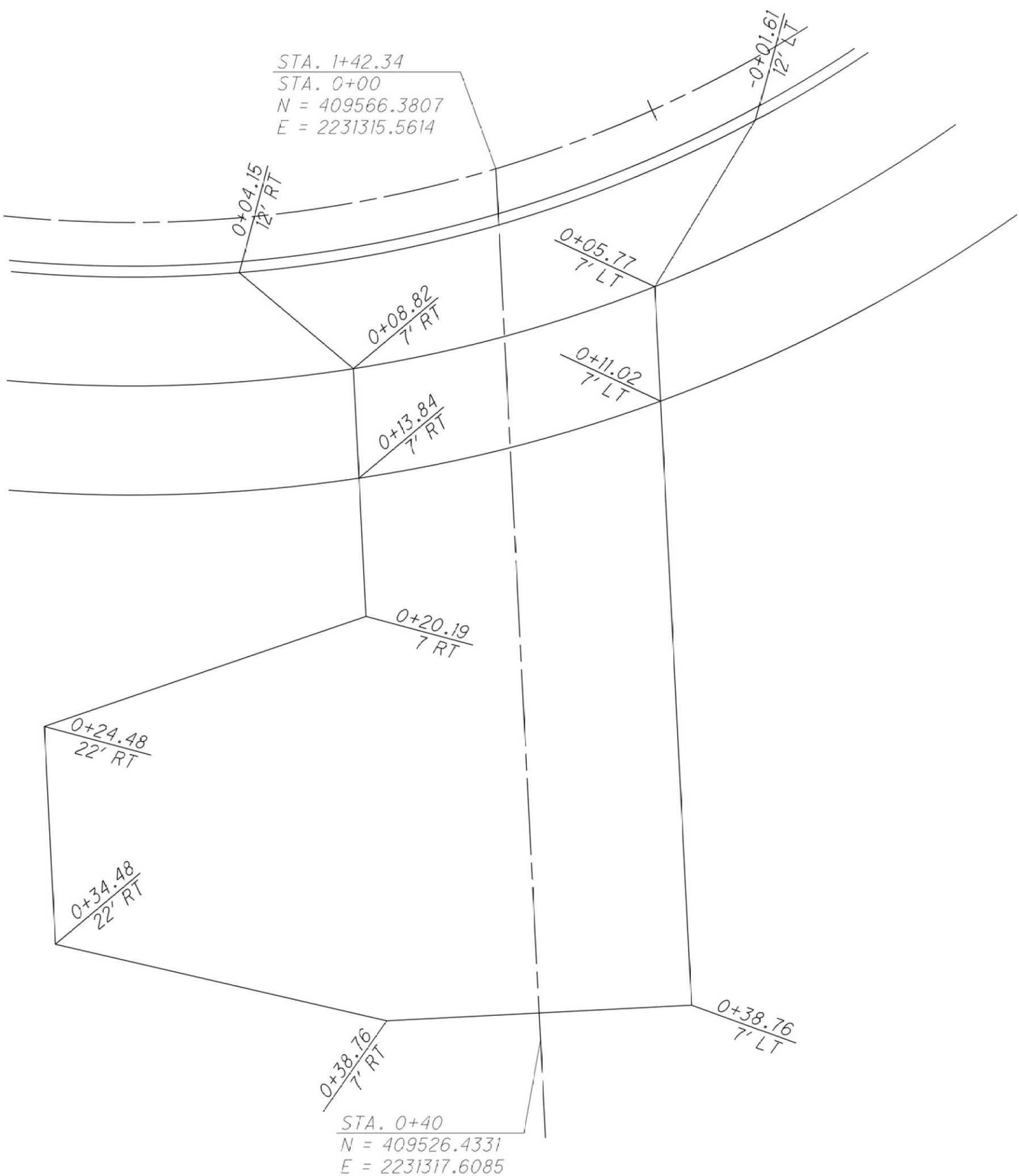
DESIGNER
FW

REVIEWER / DATE
AP 7/2025

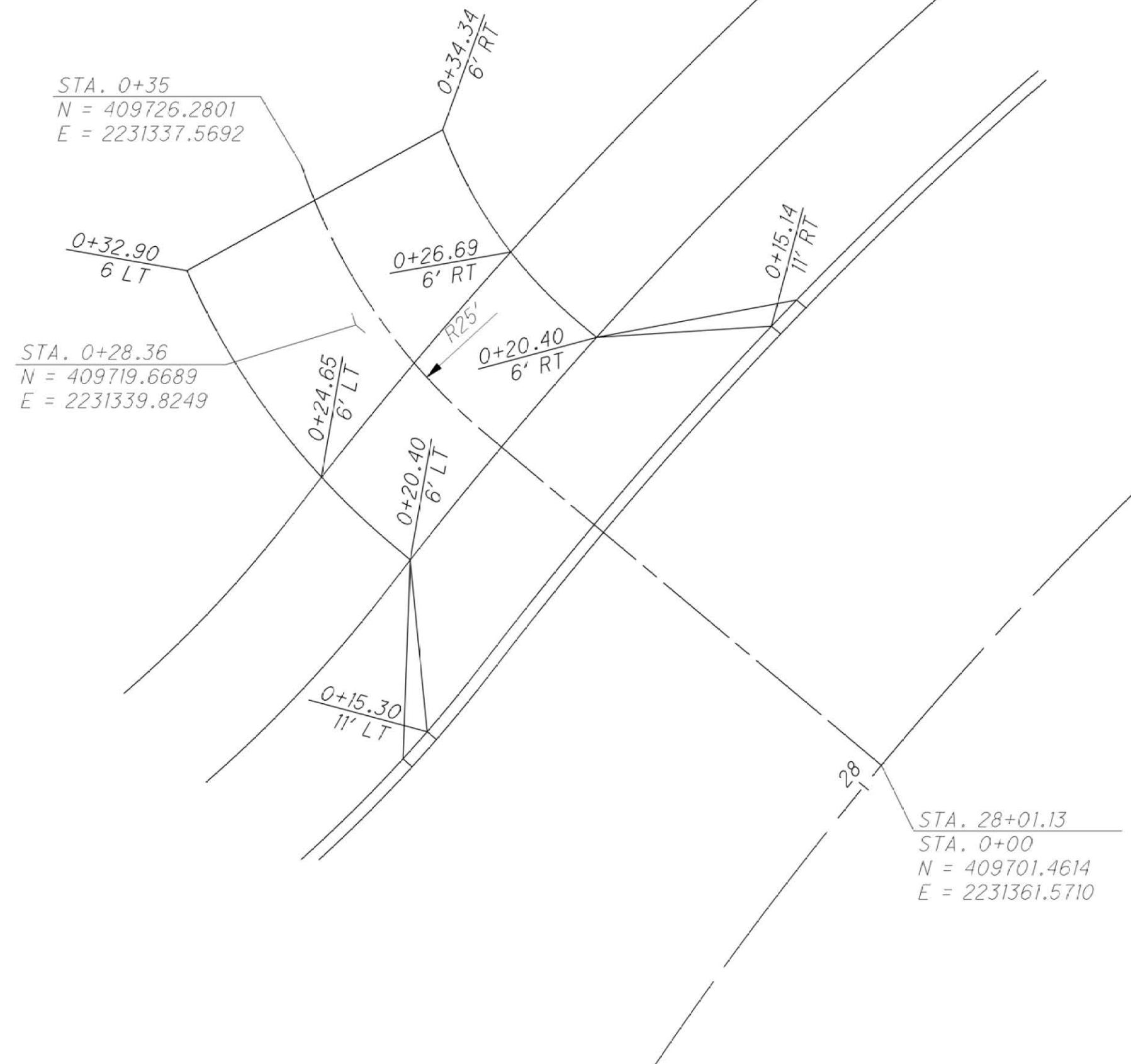
PROJECT ID
00s108/120493

SHEET
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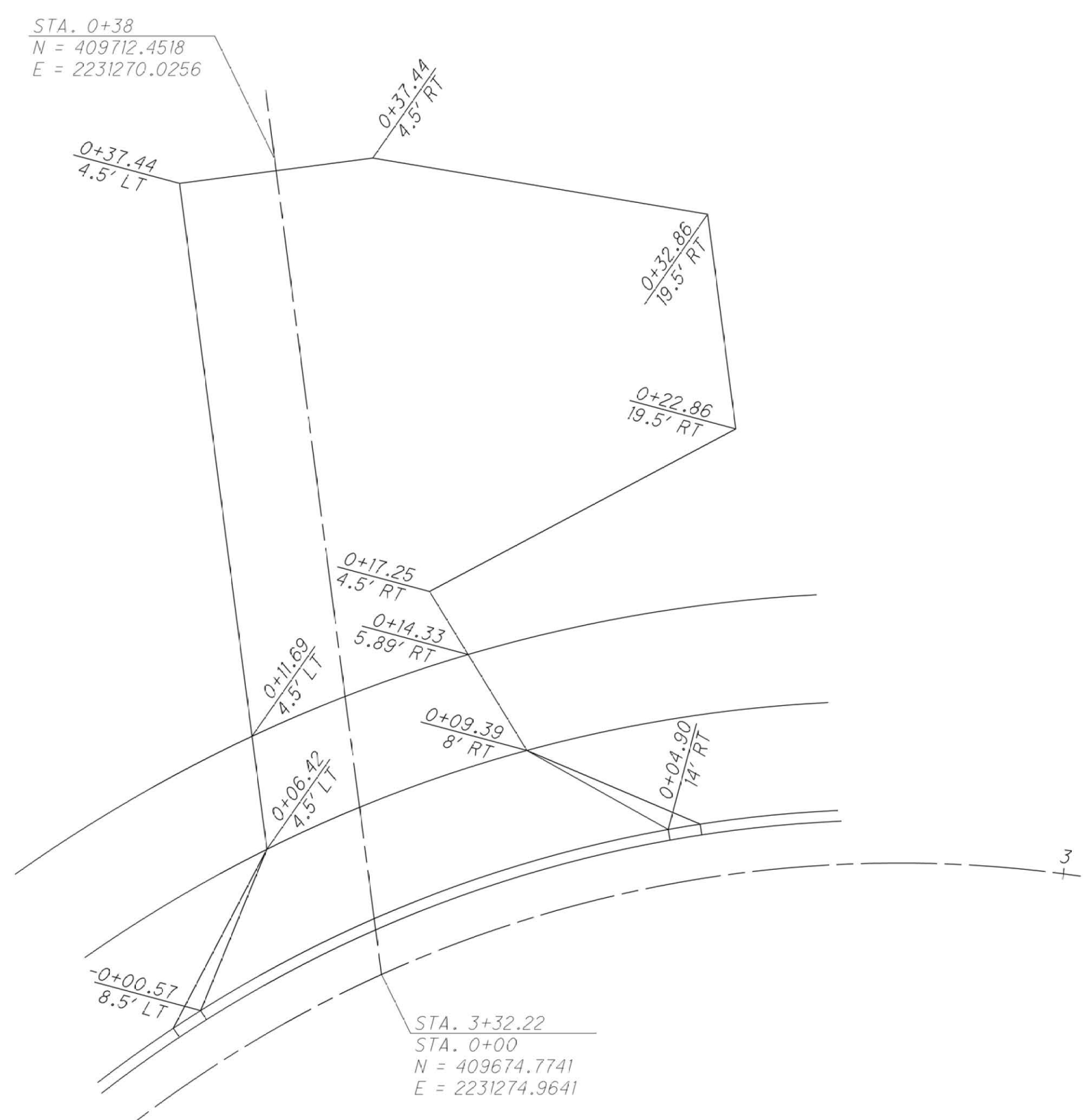
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48



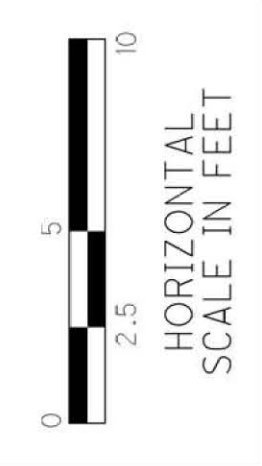
DR-7 Sta. 1+42.34 Roundabout



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

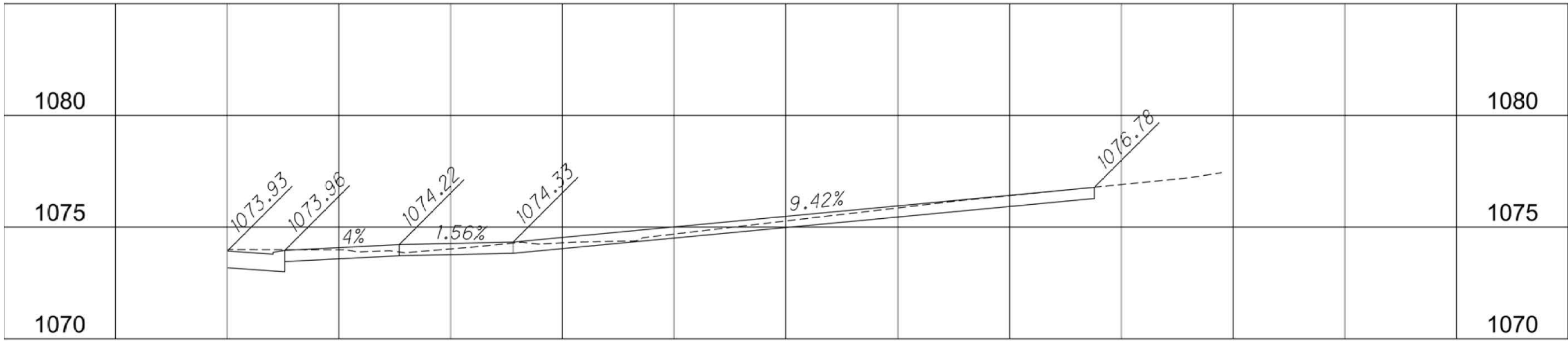
REVIEWER / DATE
AP 7/2025

PROJECT ID
00st08/120493

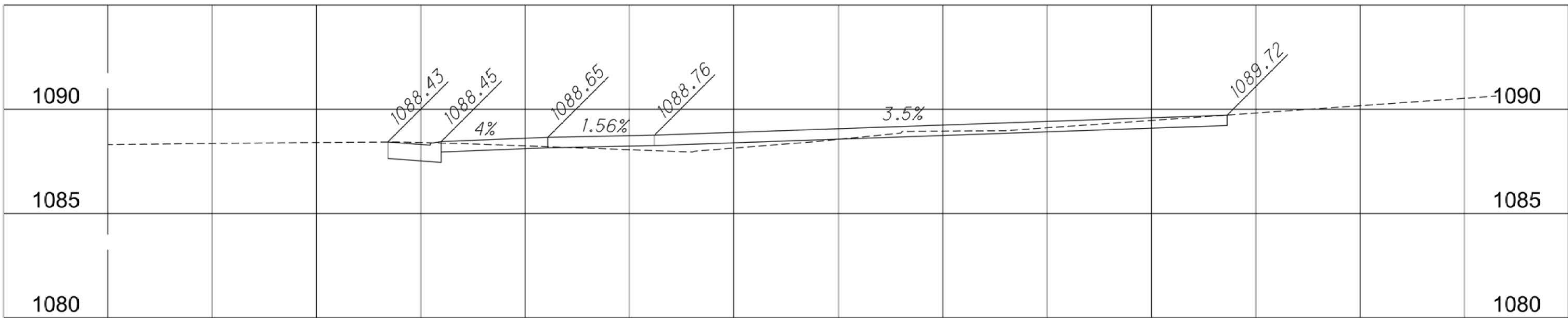
SHEET 37 SHEET 48



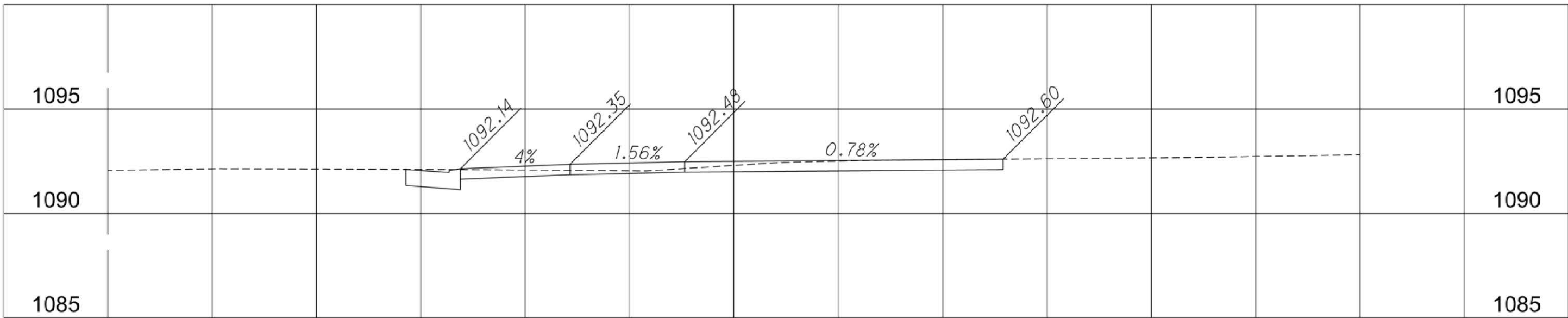
DR-8 Sta. 25+00.79 Main Ave W



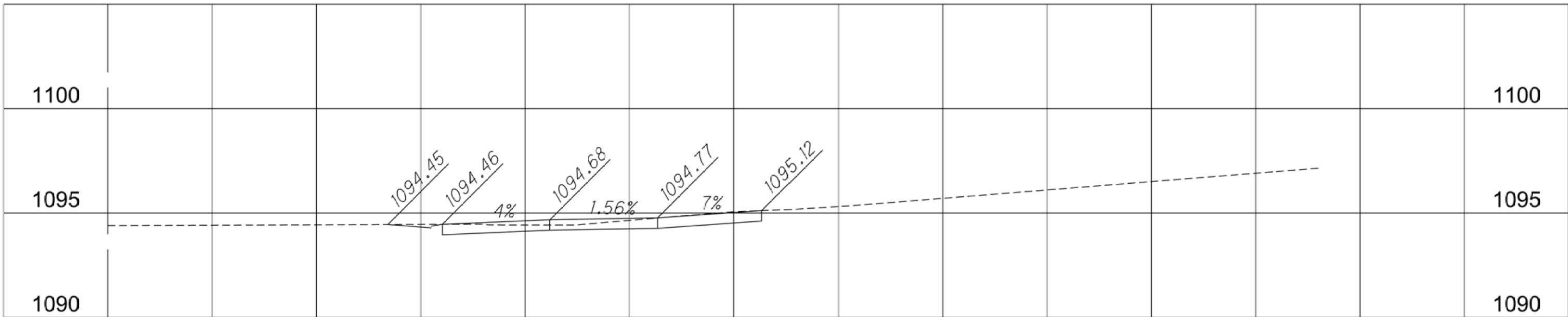
DR-7 Sta. 1+42.34 Roundabout



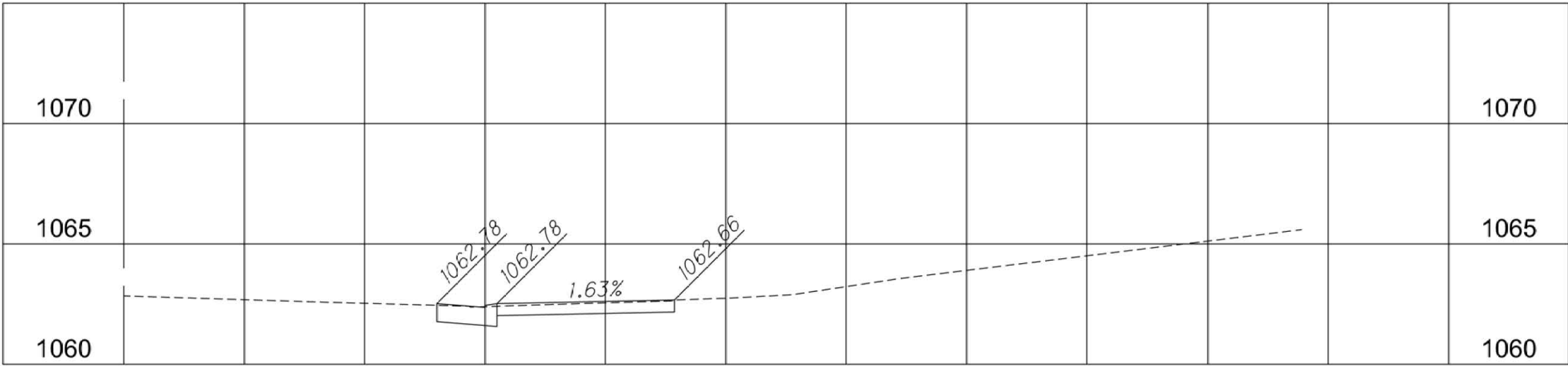
DR-3 Sta. 13+50



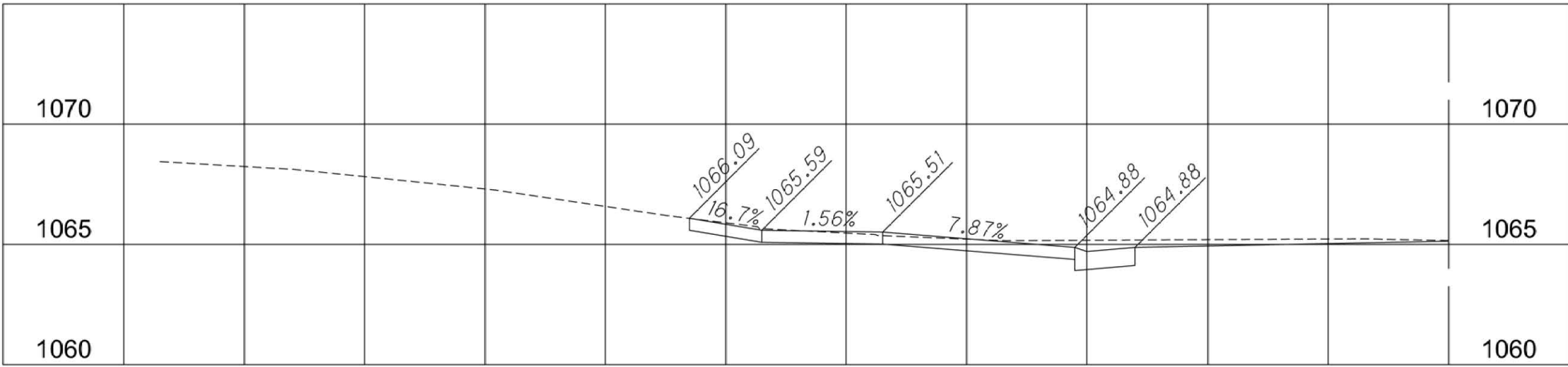
DR-2 Sta. 13+00



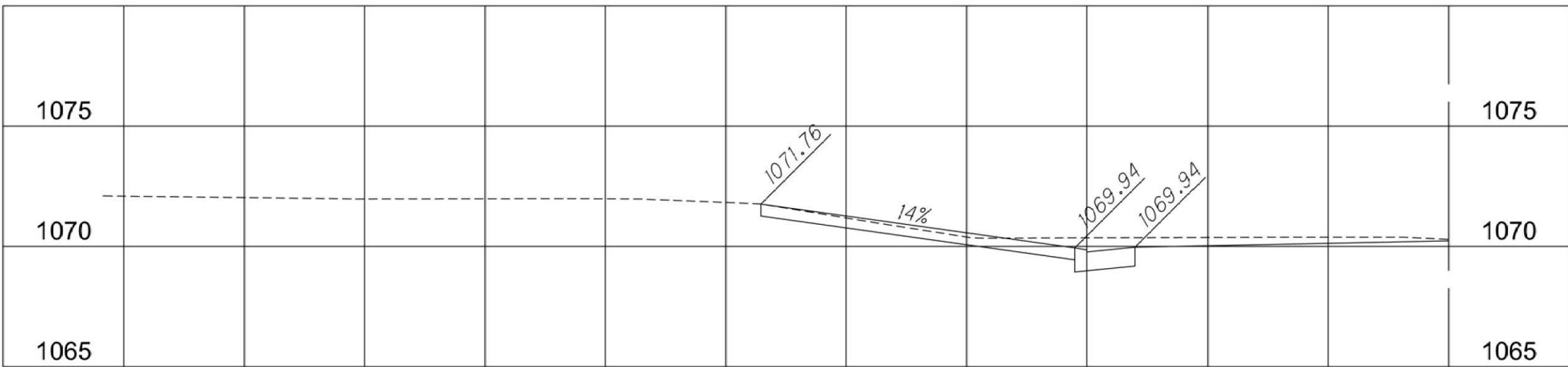
DR-1 Sta.



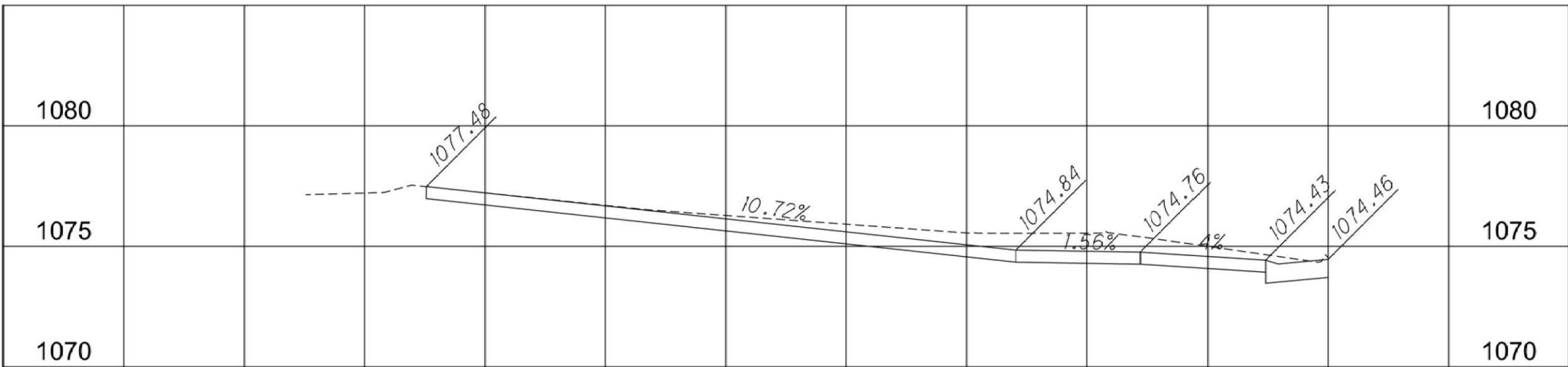
DR-13 Sta. 12+50 Tremont Ave NW



DR-12 Sta. 12+01 Tremont Ave NW



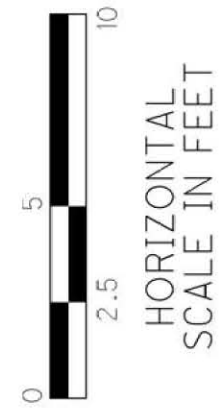
DR-11 Sta. 28+01.13 Main Ave W



DR-10 Sta. 3+32.22 Roundabout

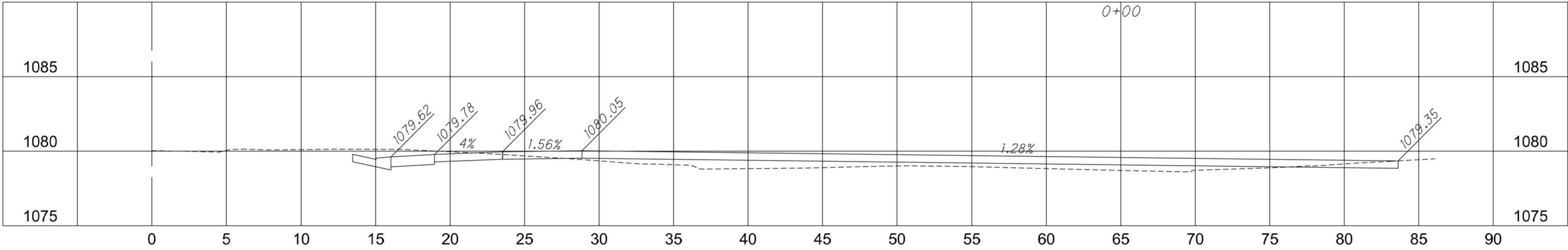
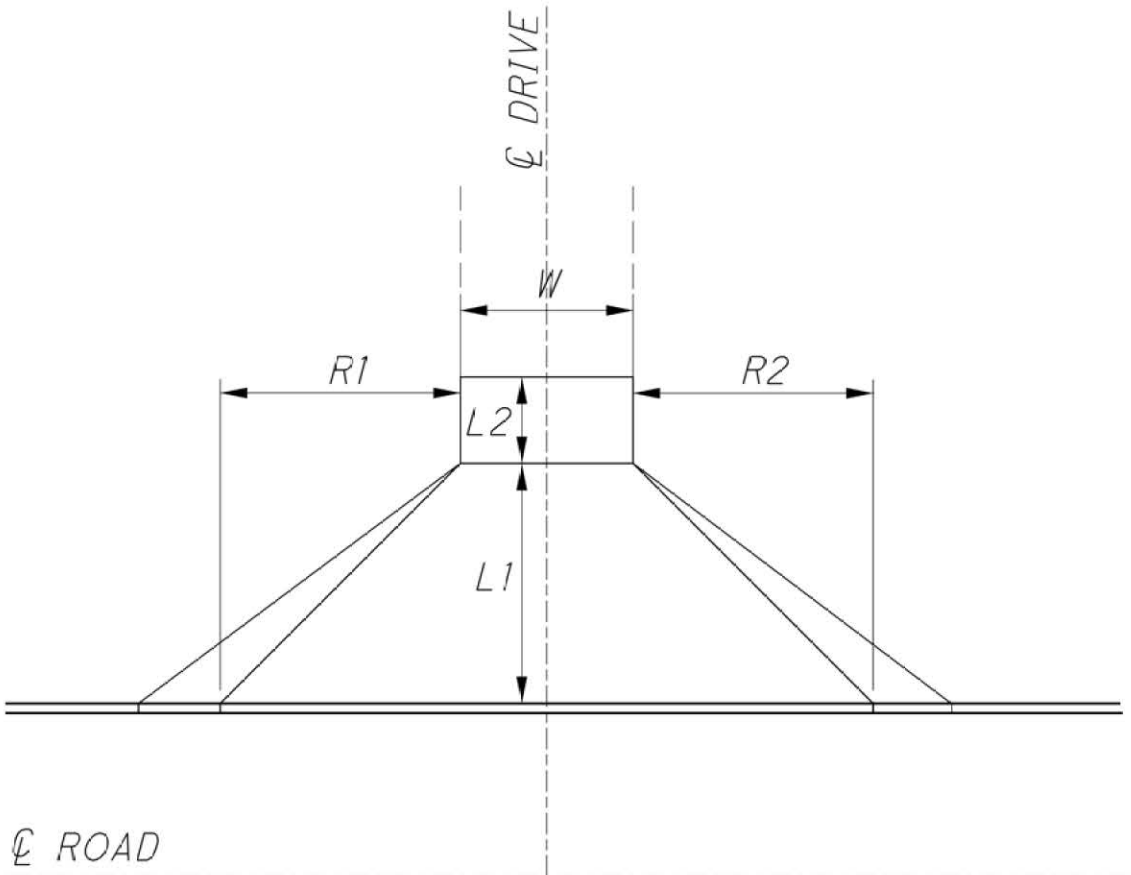


DR-9 Sta. 25+47 Main Ave W

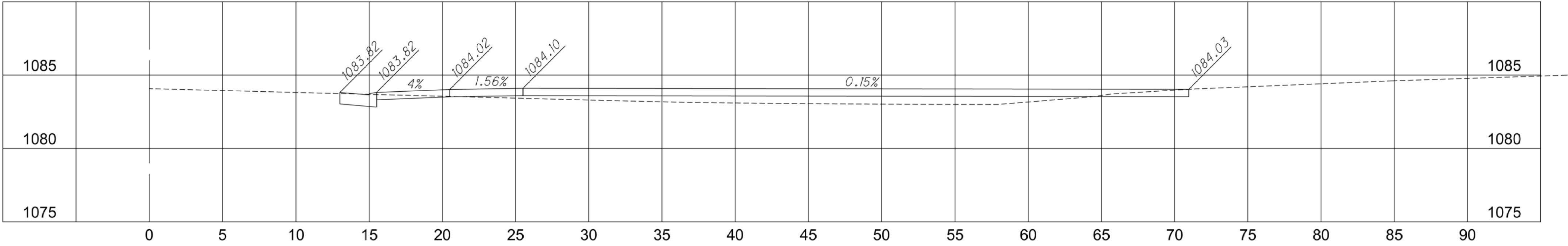


SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	DRIVE ANGLE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"			CADD GENERATED SURFACE AREA	452	
					DEG.	FT.	FT.	FT.			SQ. FT.	S. Y.	
11	DR-1	21+29.63	RT.	1	104°36'08"	5.13	10.17	10-16			243.24	27.1	
11	DR-2	22+43.95	RT.	1	113°19'50"	5.46	20.52	21			661.87	73.6	
11	DR-3	23+69.03	RT	1	102°31'47"	5.11	22.54	26			753.76	83.8	
12	DR-4	24+35	RT	1	90°00'00"	5	37.37	12			540.96	60.1	
12	DR-5	24+95	RT	1	90°00'00"	5	50.46	12			697.29	77.5	
12	DR-6	25+84.08	RT	1	80°12'40"	4.57	60.10	14			926.39	103.0	
12	DR-7	1+42.34	RT	1	103°48'32"	5.12	31.06	14			748.22	83.2	
12	DR-8	25+00.79	LT	1	86°01'16"	5.01	14.32	12			264.61	29.4	
12	DR-9	25+47	LT	1	90°00'00"	5	22.93	12			368.41	41.0	
12	DR-10	3+32.22	RT	1	106°51'13"	5.19	29.66	9			605.36	67.3	
12-13	DR-11	28+01.13	LT	1	90°00'00"	5.16	12.79	12			250.18	27.8	
14	DR-12	12+01.00	LT	1	90°00'00"	7.99	8.03	20			372.36	41.4	
14	DR-13	12+50.00	RT	1	90°00'00"	7.37		22			186.51	20.7	
TOTALS CARRIED TO GENERAL SUMMARY												735.9	

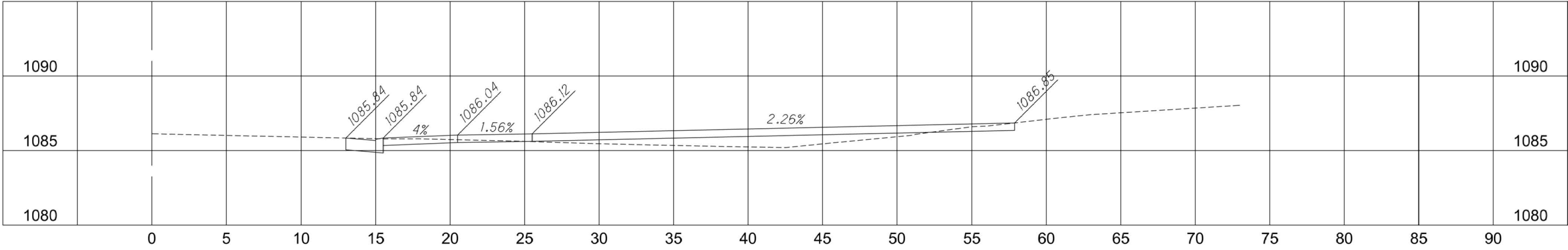
TYPE 1 DRIVEWAY PLAN VIEW (TYPICAL)



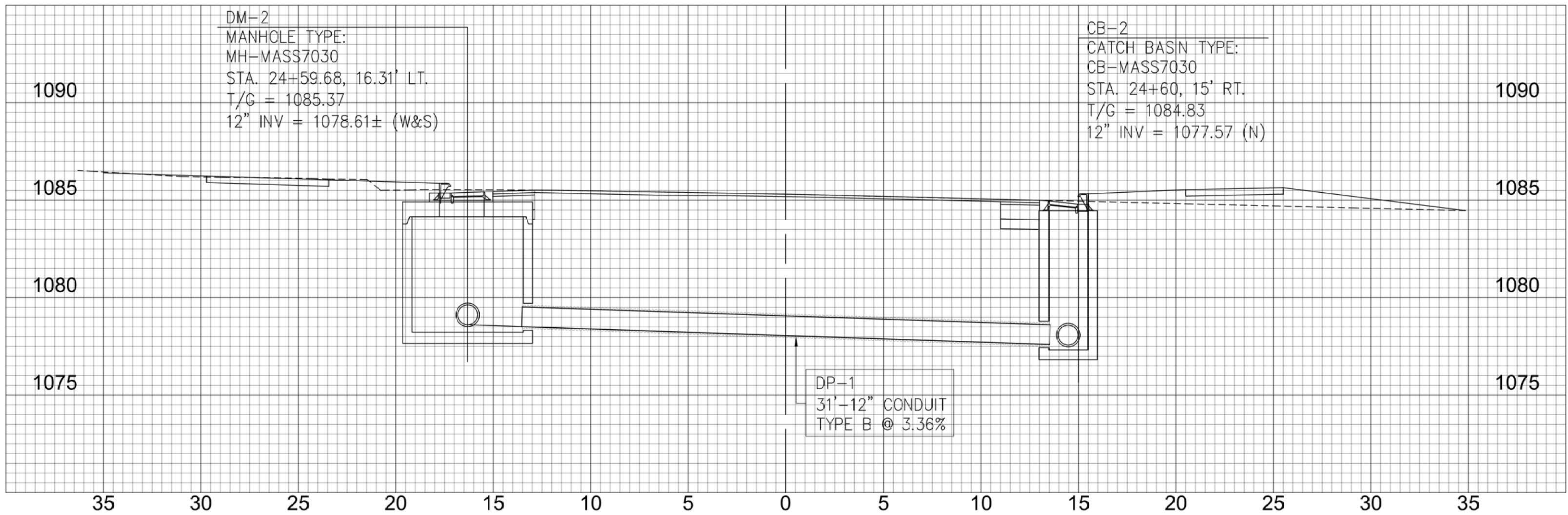
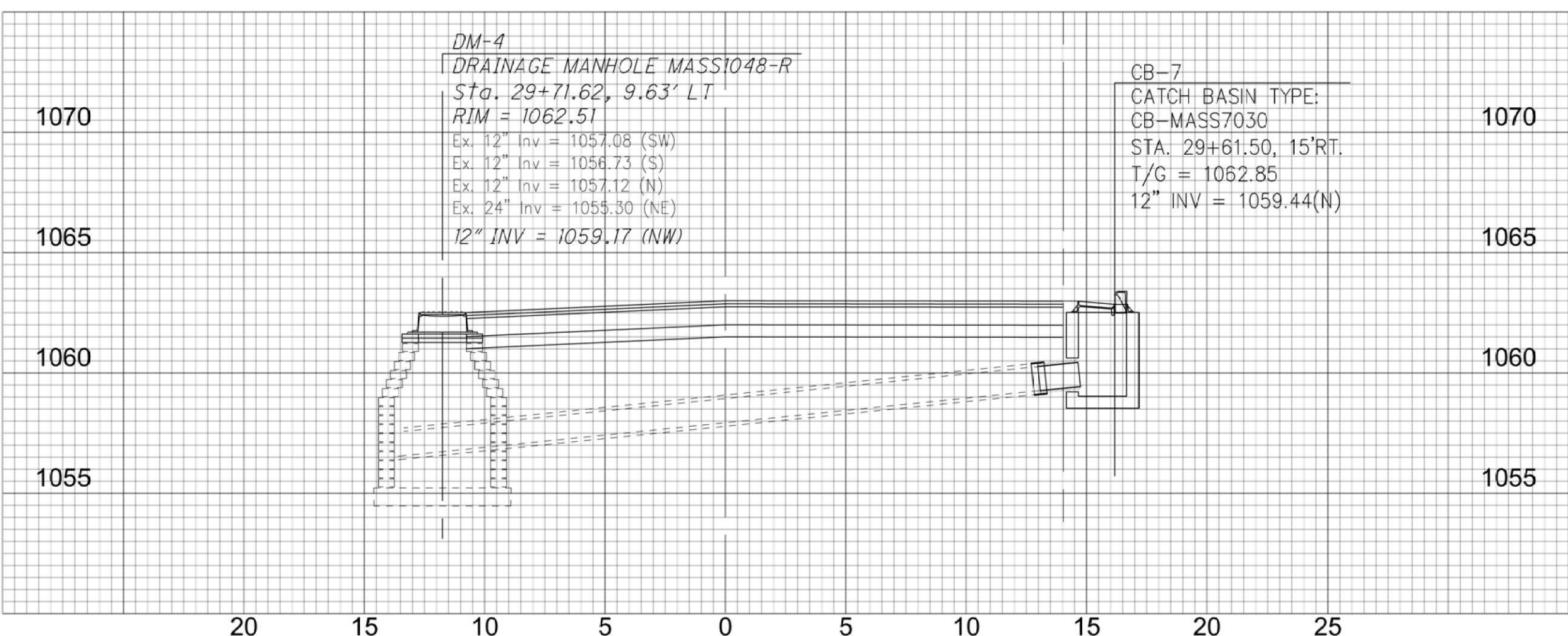
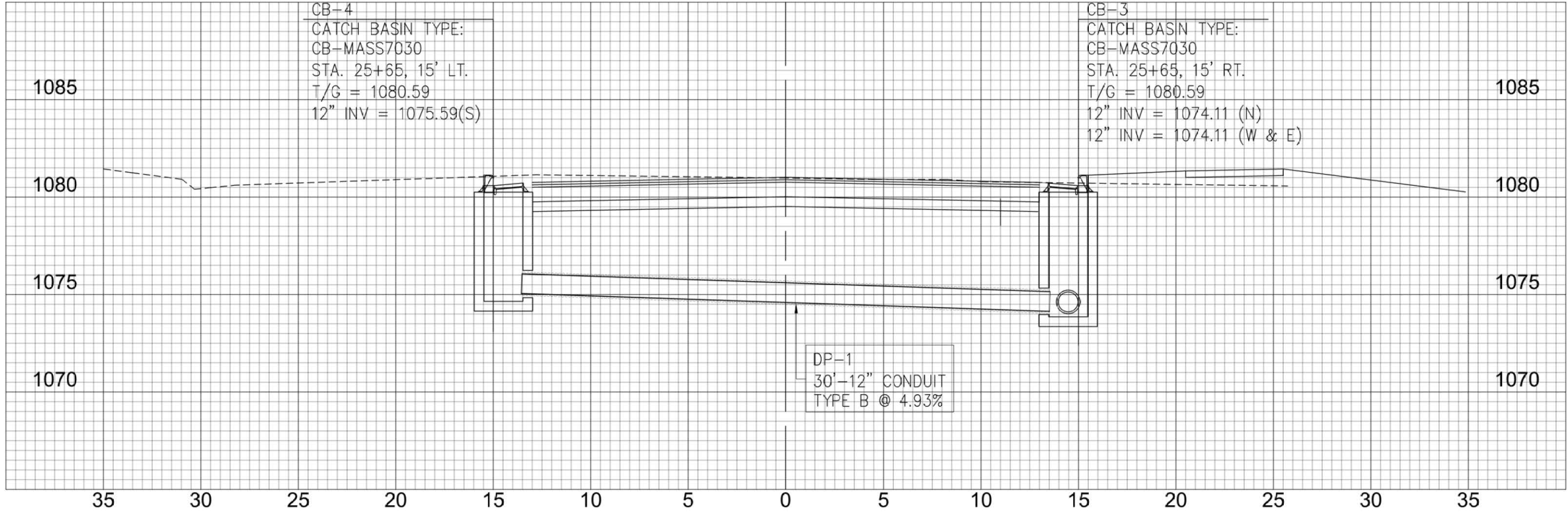
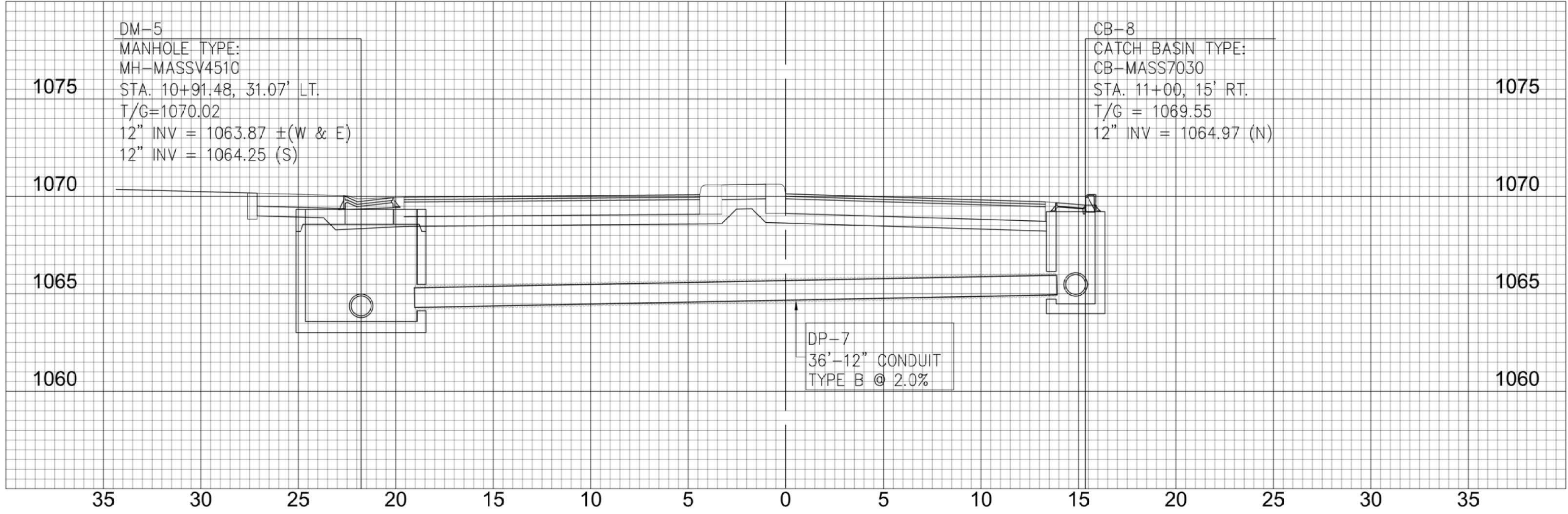
DR-6 Sta. 25+84.08 Main Ave W

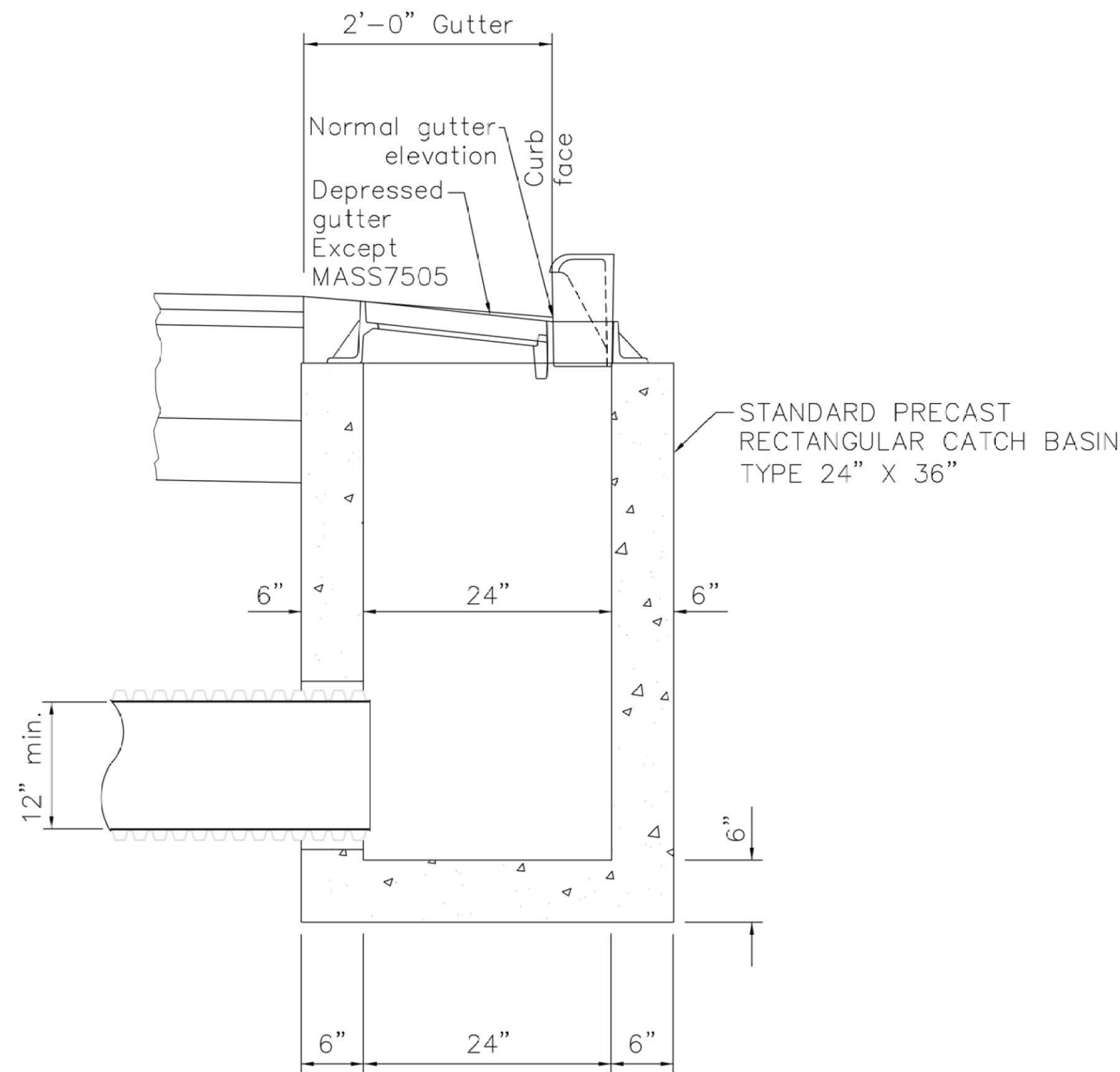
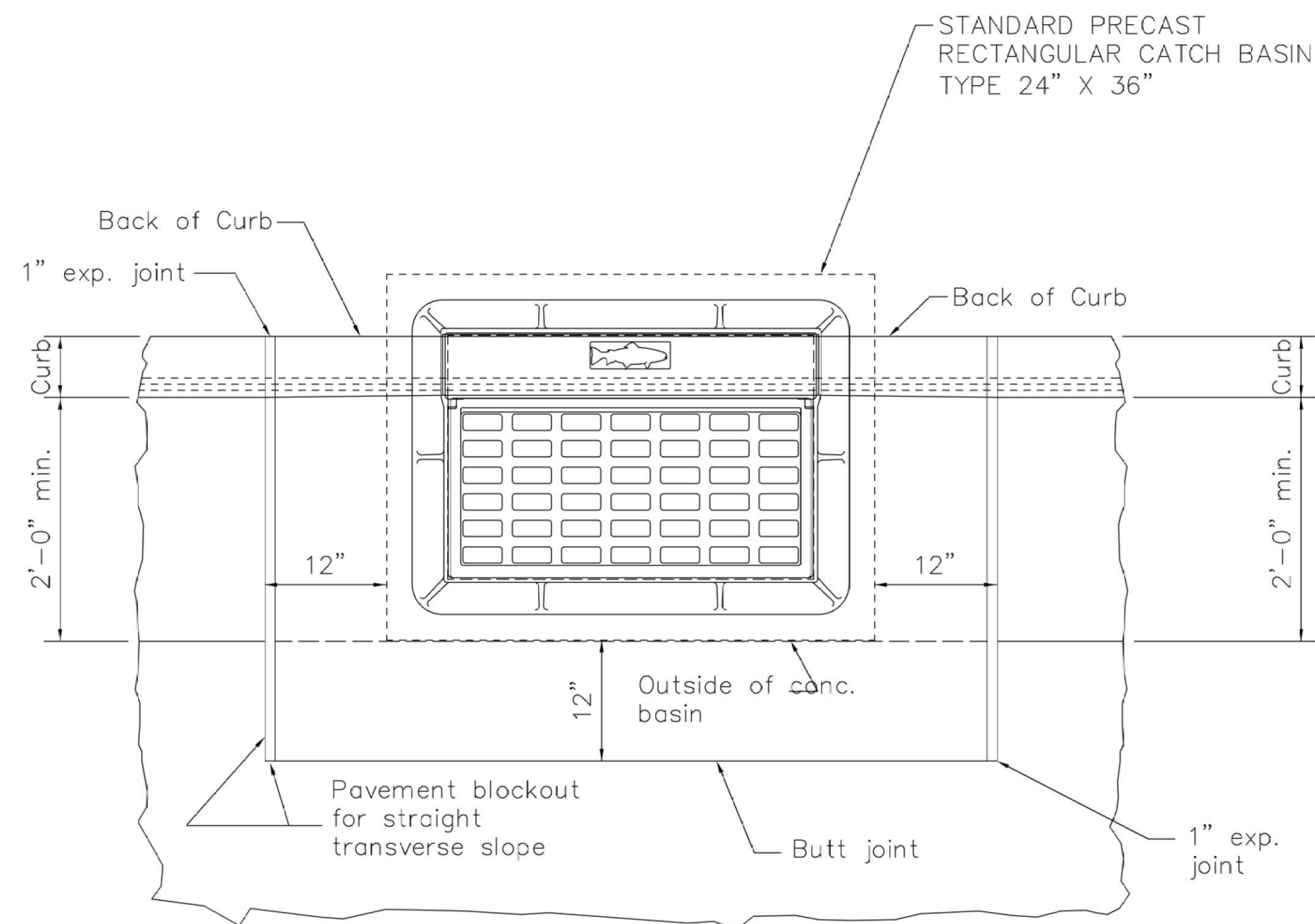
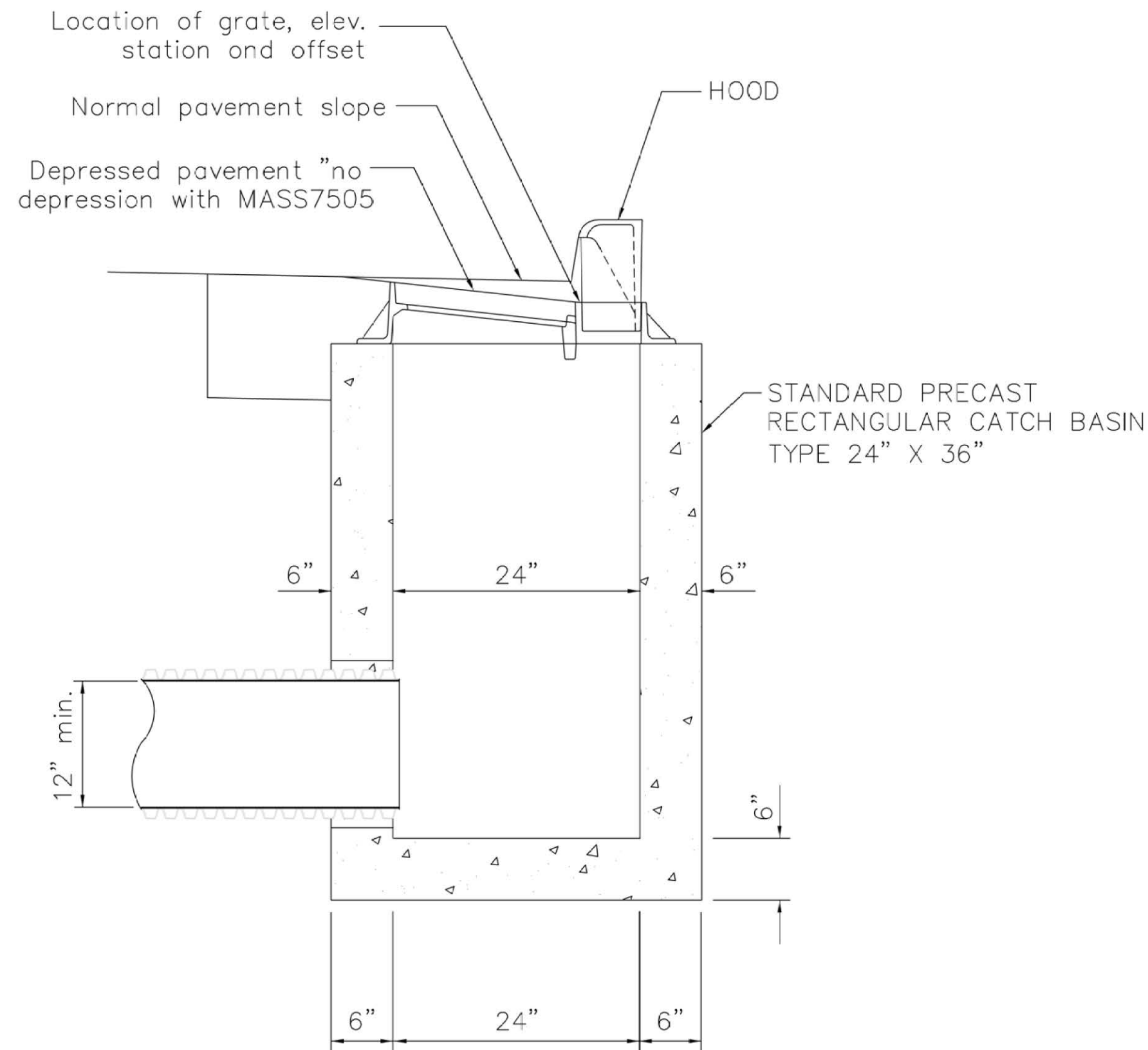
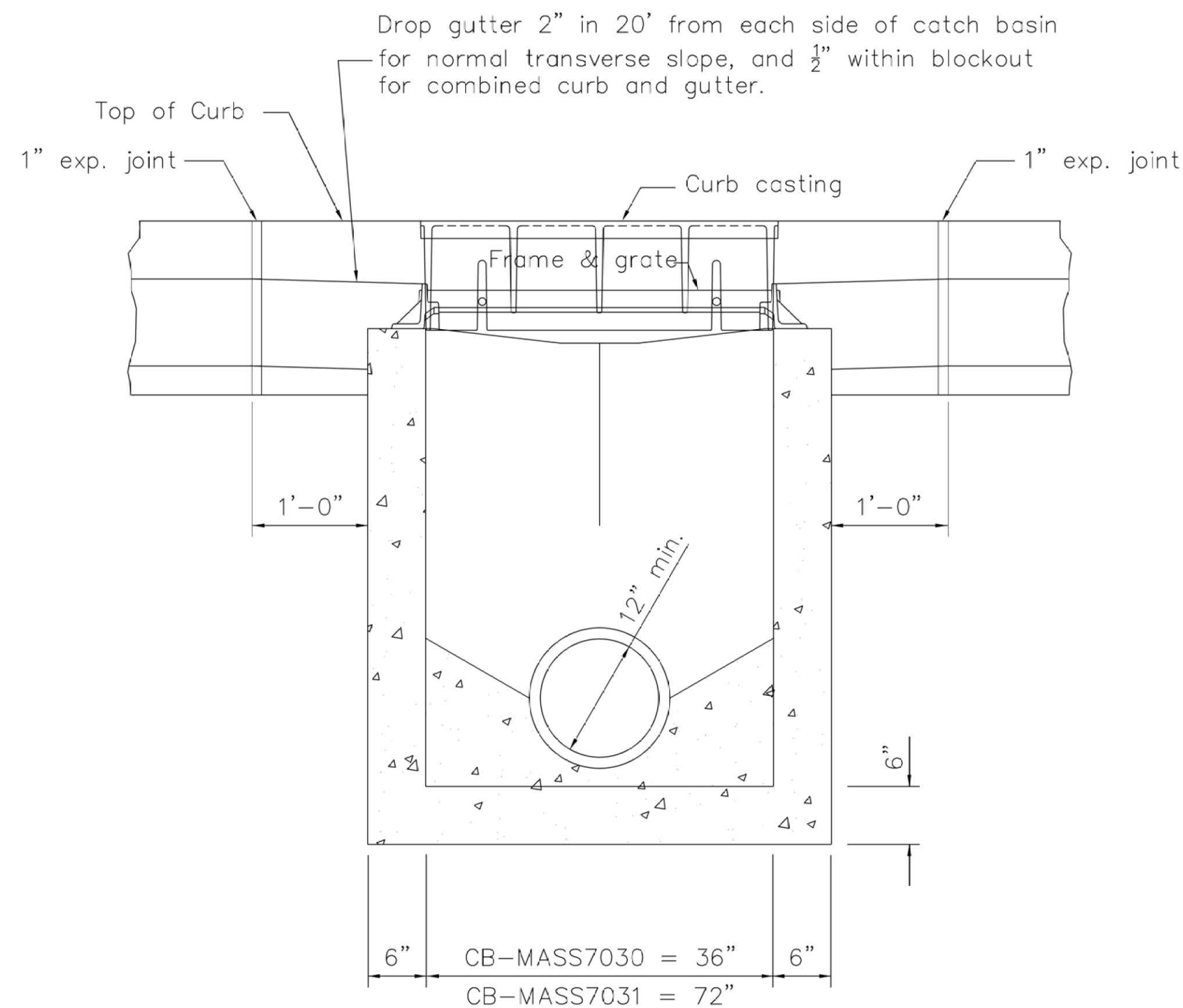


DR-5 Sta. 24+95 Main Ave W



DR-4 Sta. 24+35 Main Ave W





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 the one shown. Below is a list of approved EJ

Frame	=	7030 Z, 7031 Z, 7505
Grate	=	7030 M2, 7505
	=	7030 M3 for bicycle safety
Hood	=	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.

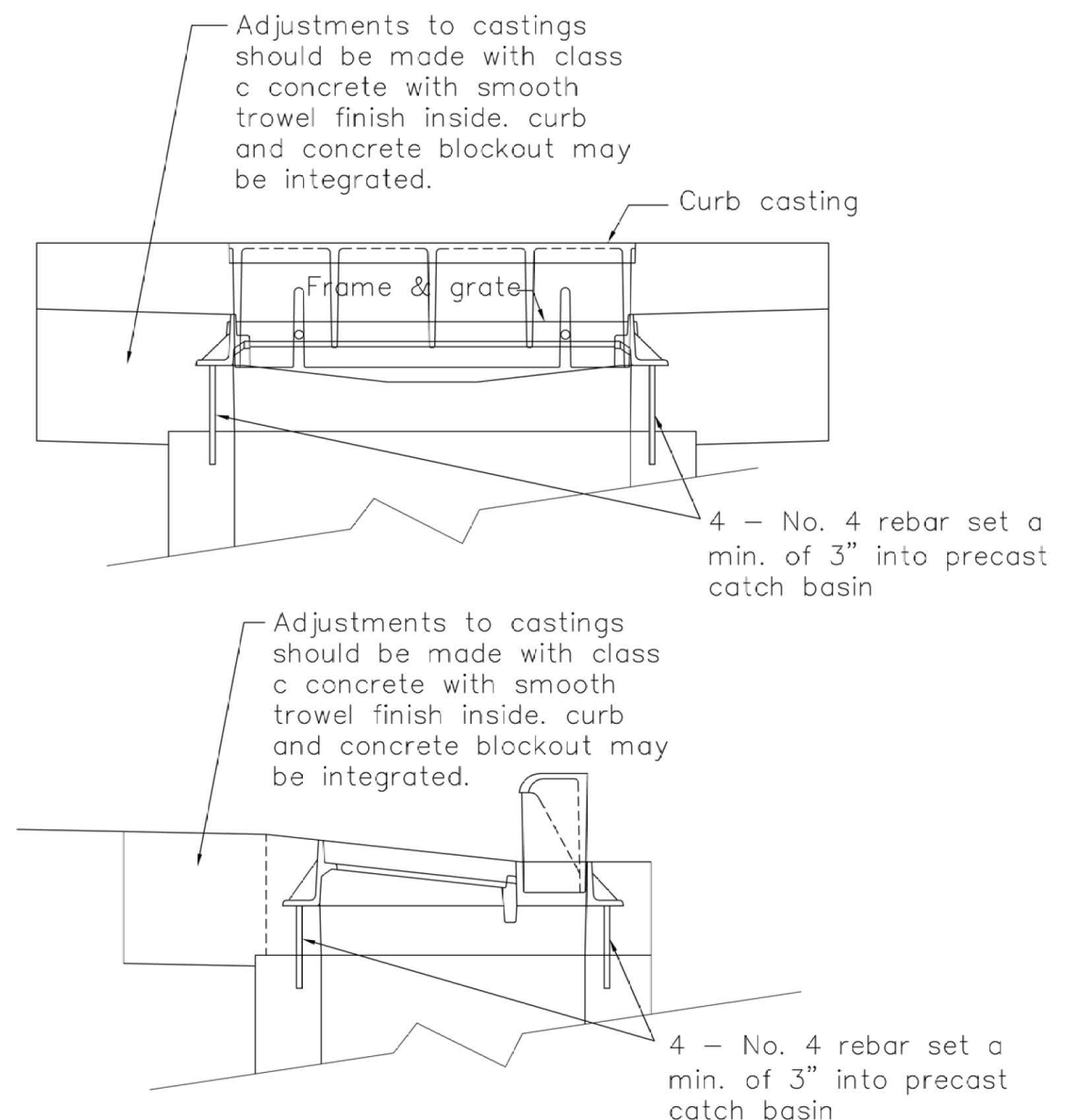
OPENINGS: Obtain the Engineer's approval for any pipe opening greater than 4" from the outside of the pipe to the structure. Fill all voids per CMS 611.

DOWELS: Furnish four 1"x18" dowels for concrete pavement or gutter blackout. 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 blackout, 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.



CASTING ADJUSTMENT

8
4
2
0
HORIZONTAL
SCALE IN FEET

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

COMPANY



DESIGNER

AP

REVIEWER / DATE

FW 3/6/2025

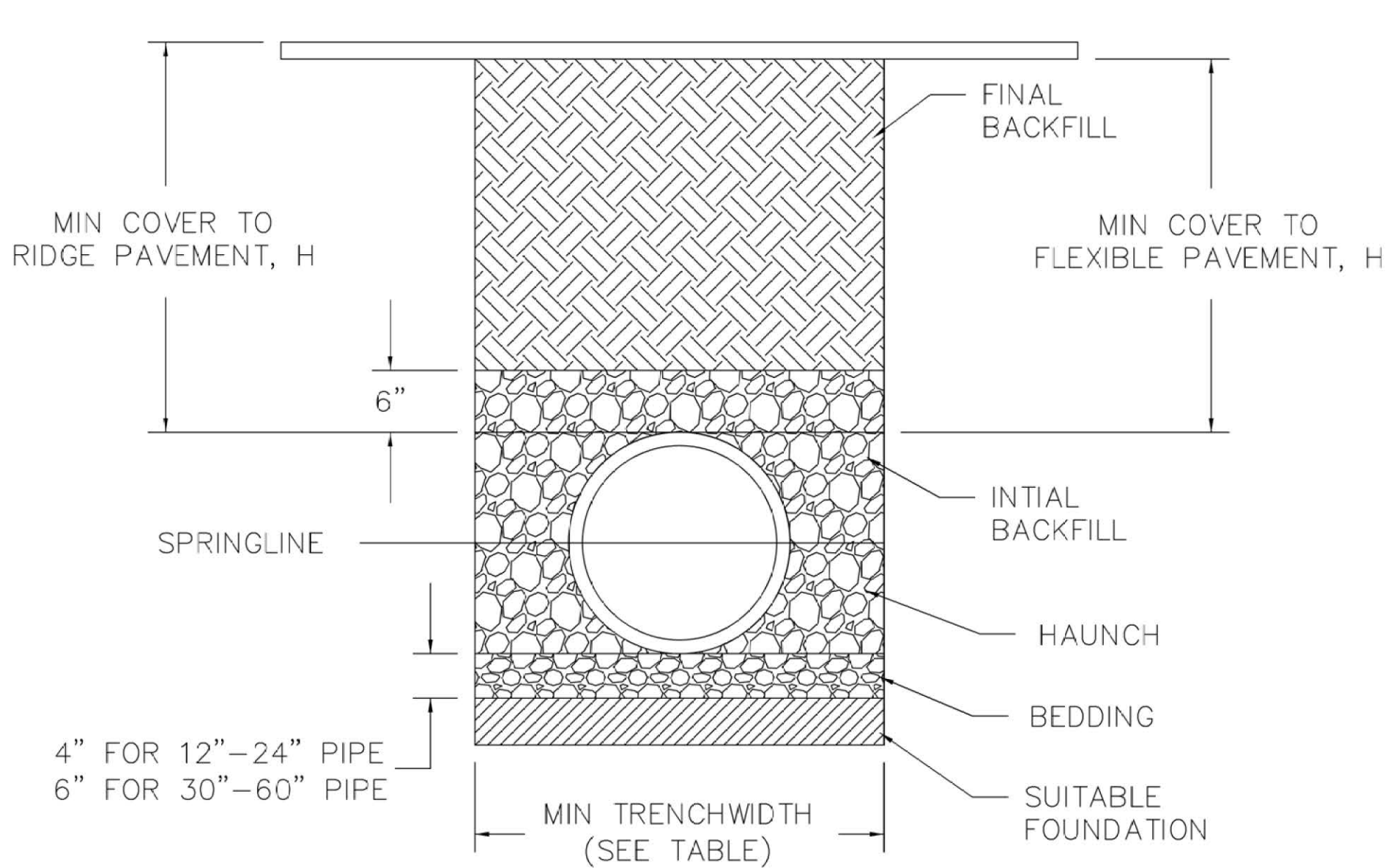
PROJECT ID

22ST08 / 120493

SHEET

SHEET

41 48

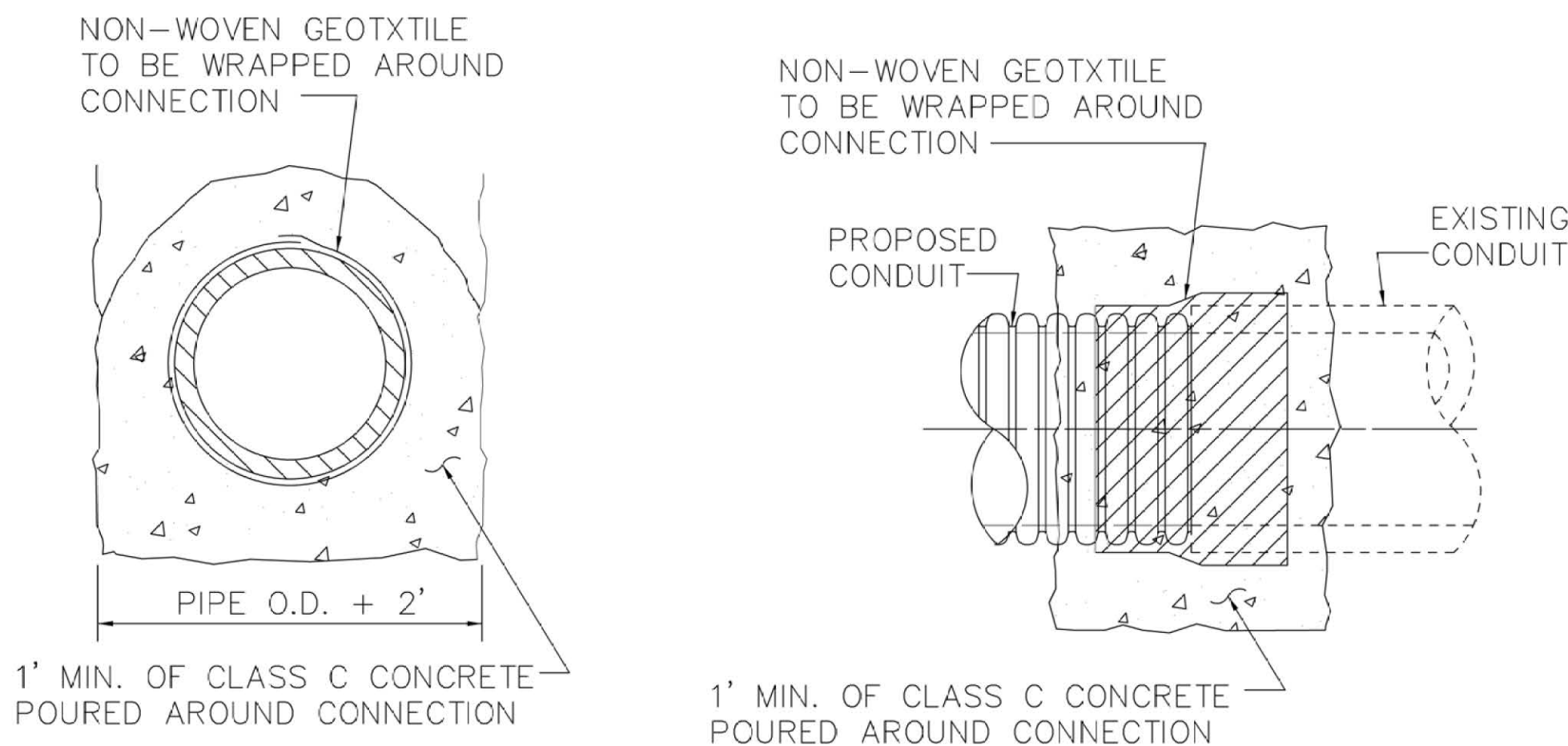


RECOMMENDED MINIMUM TRENCH WIDTHS	
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21'
6"	23'
8"	26'
10"	28'
12"	30'
15"	34'
18"	39'
24"	48'
30"	56'
36"	64'
42"	72'
48"	80'
54"	88'
60"	96'

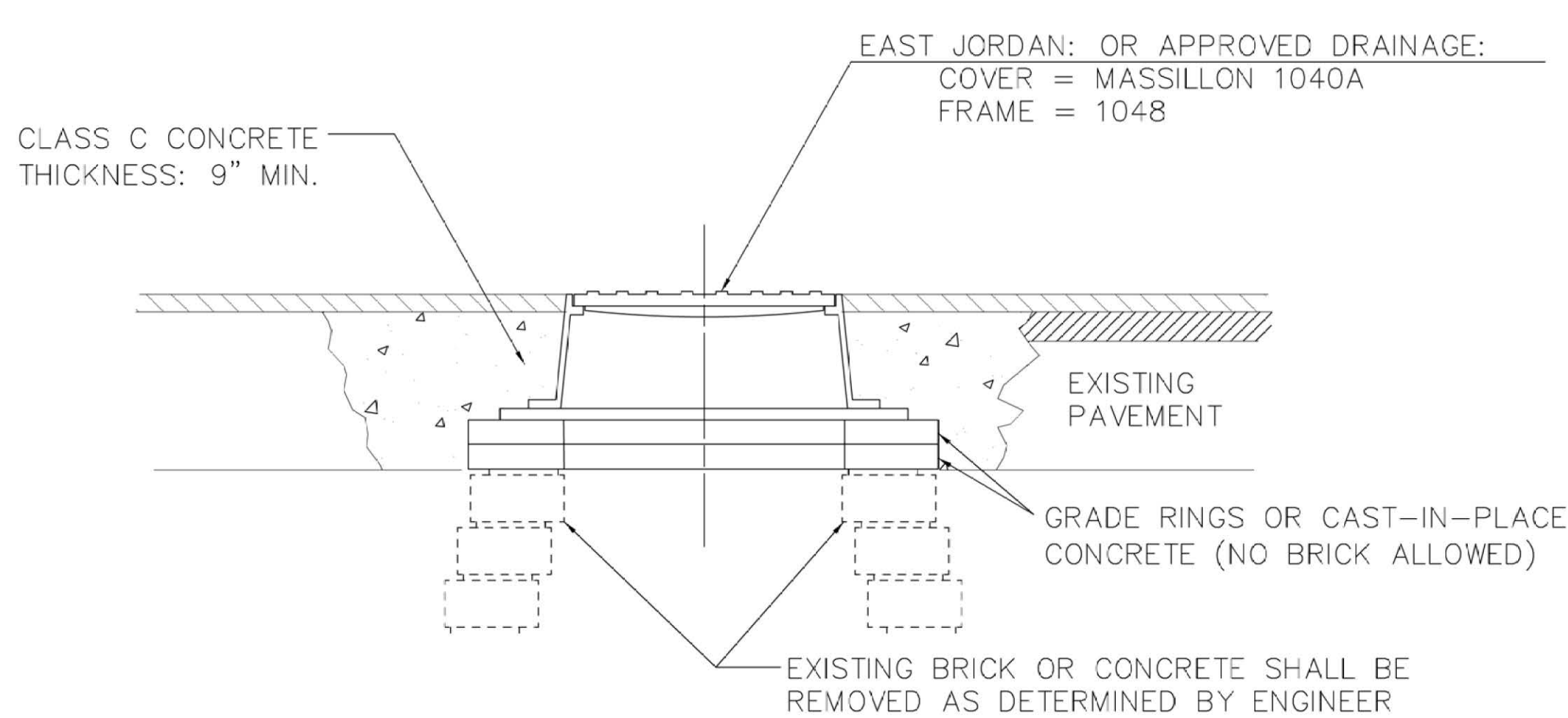
NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE APPLICATION", LATEST ADDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- 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.
- 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".
- 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.
- 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 FLOATATION. 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



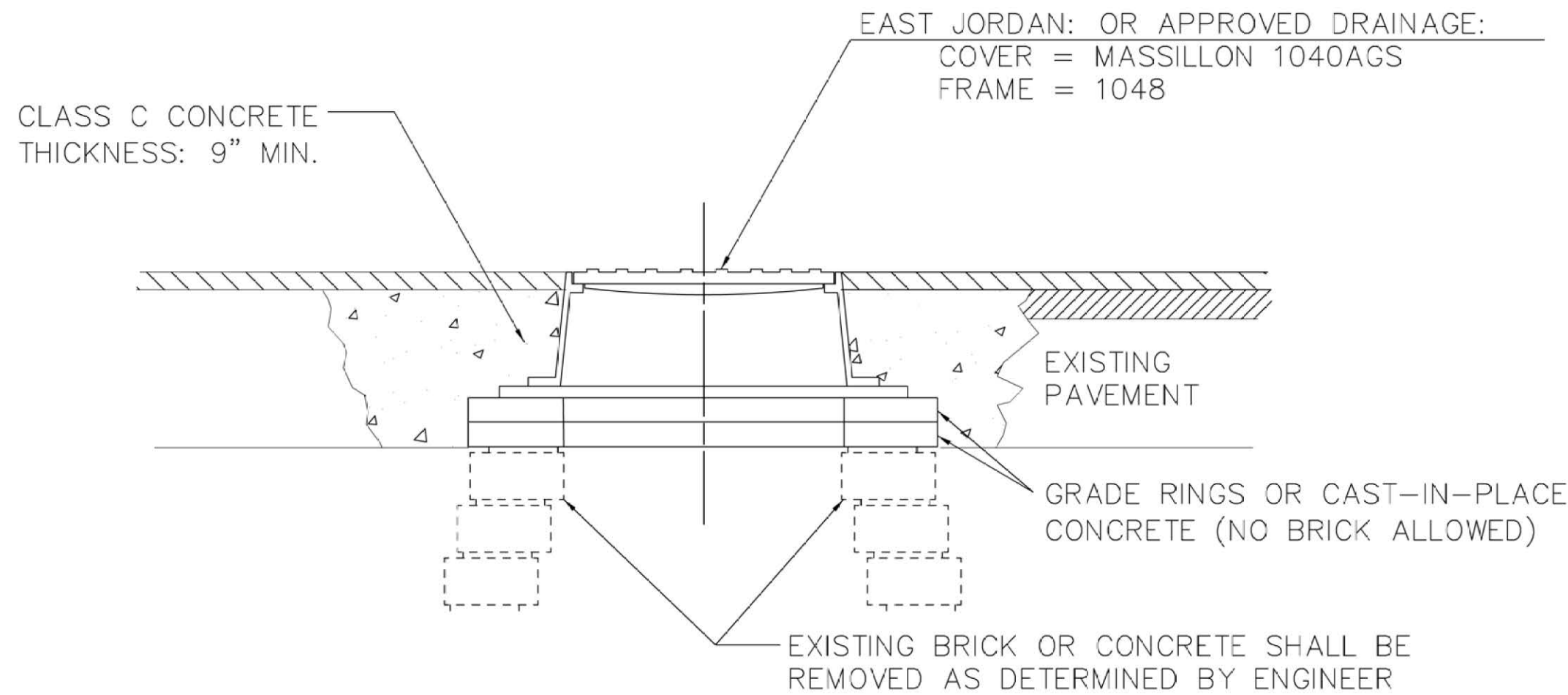
CONCRETE COLLAR



NOTES:

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

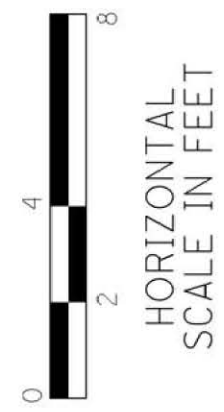
DRAINAGE MANHOLE MASS1048-R



NOTES:

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

SANITARY MANHOLE MASS1048-R



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

COMPANY



DESIGNER

FW

REVIEWER / DATE

AP 3/6/2025

PROJECT ID

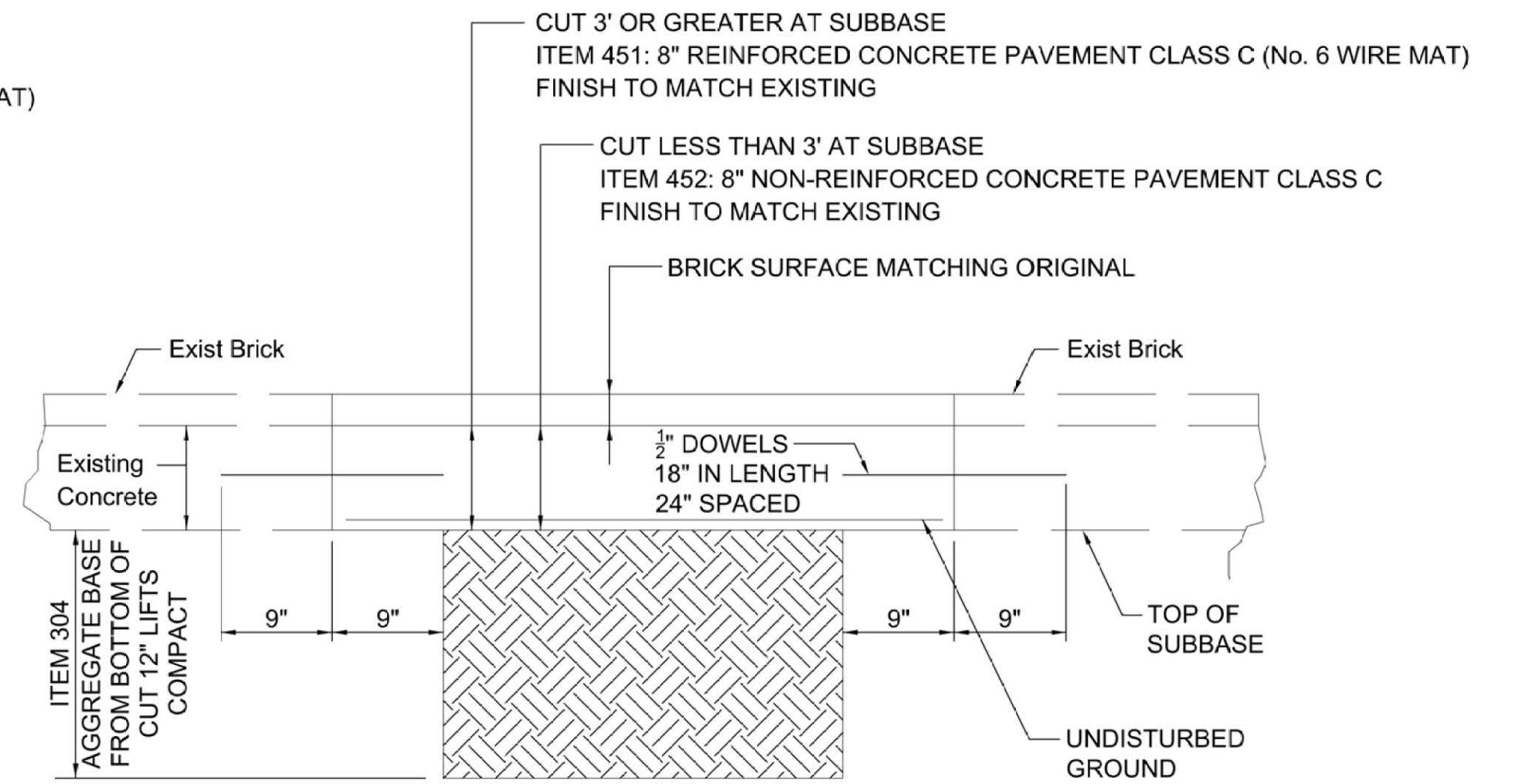
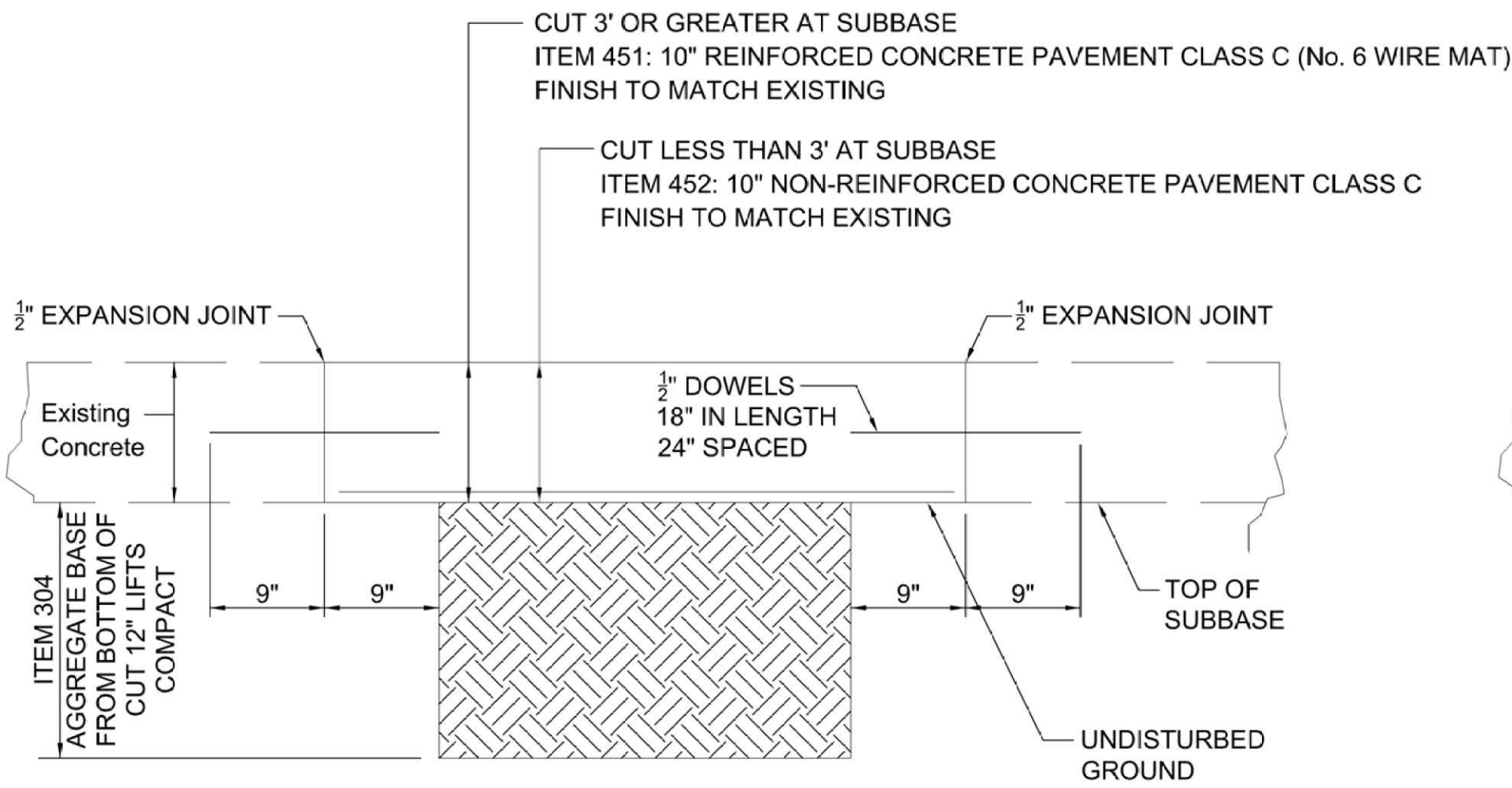
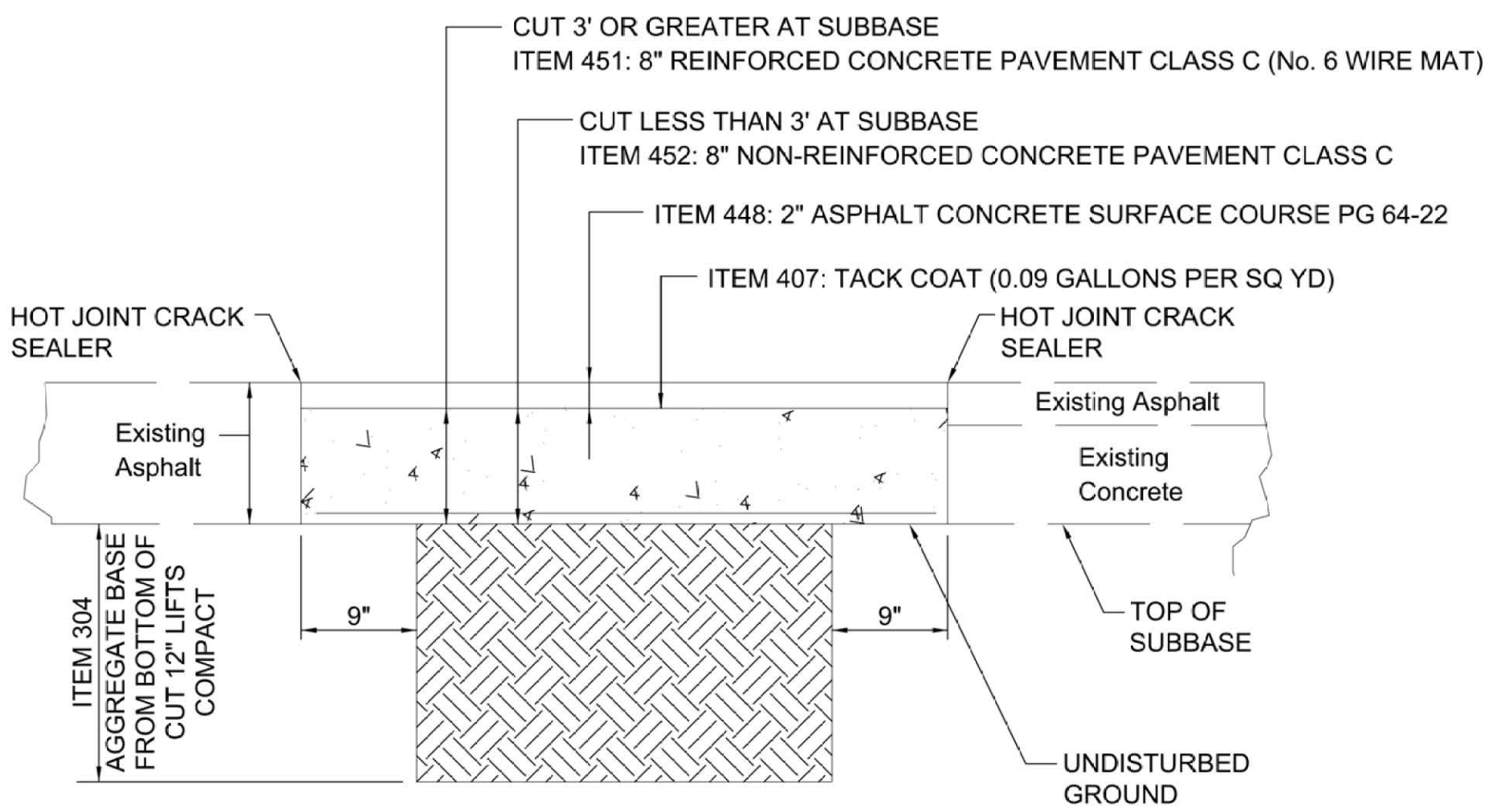
22ST08 / 120493

SHEET

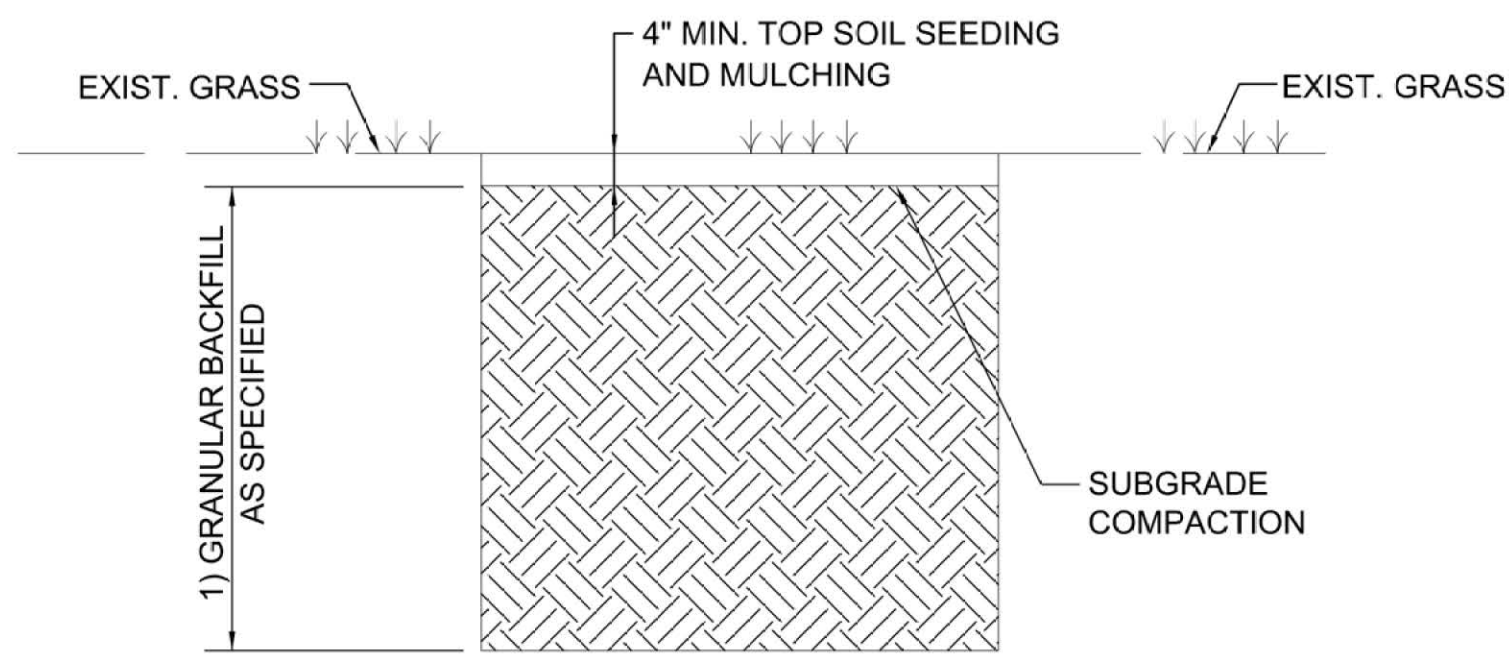
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SHEET

48



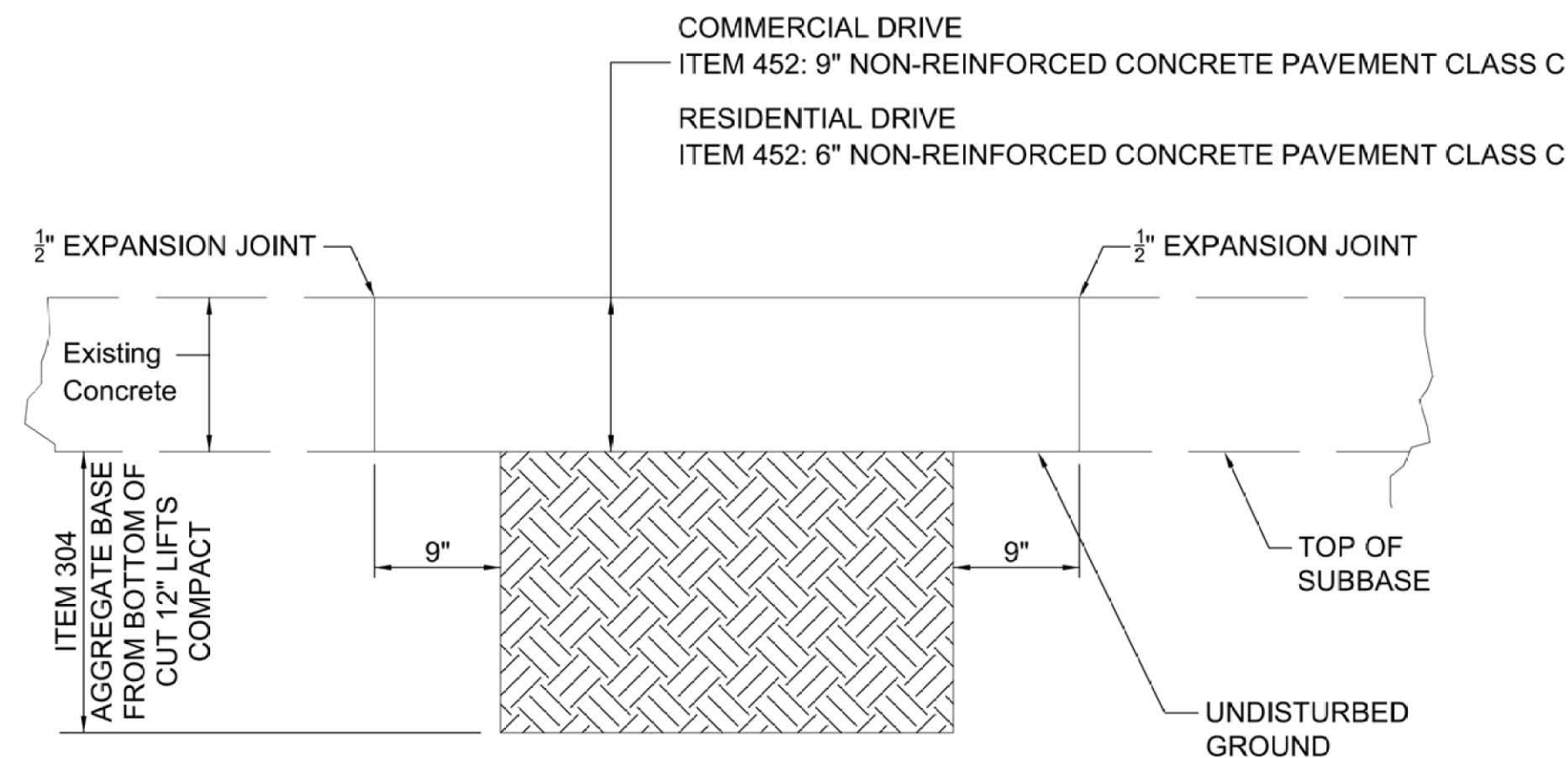
ROADWAY RESTORATION DETAIL



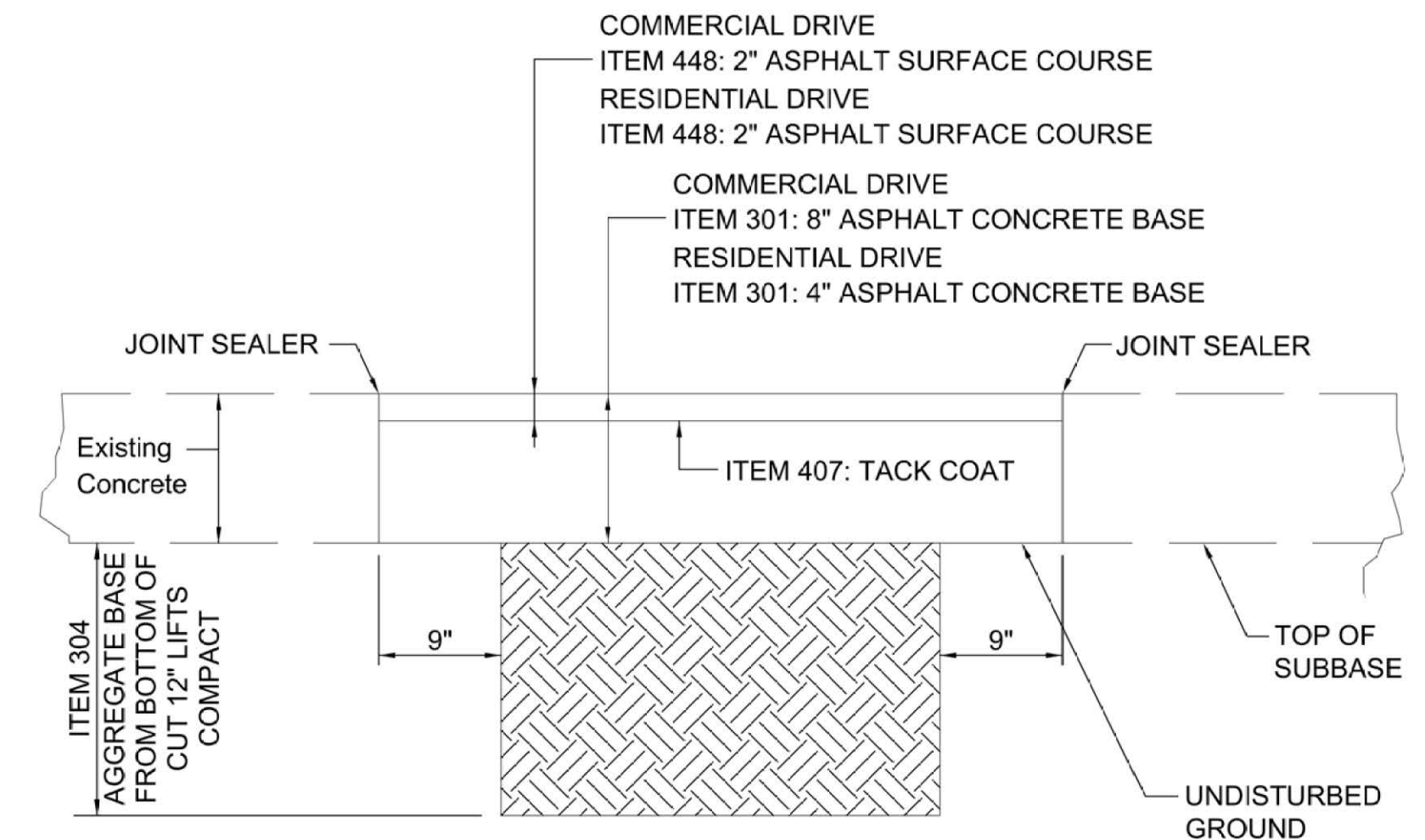
NOTES

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

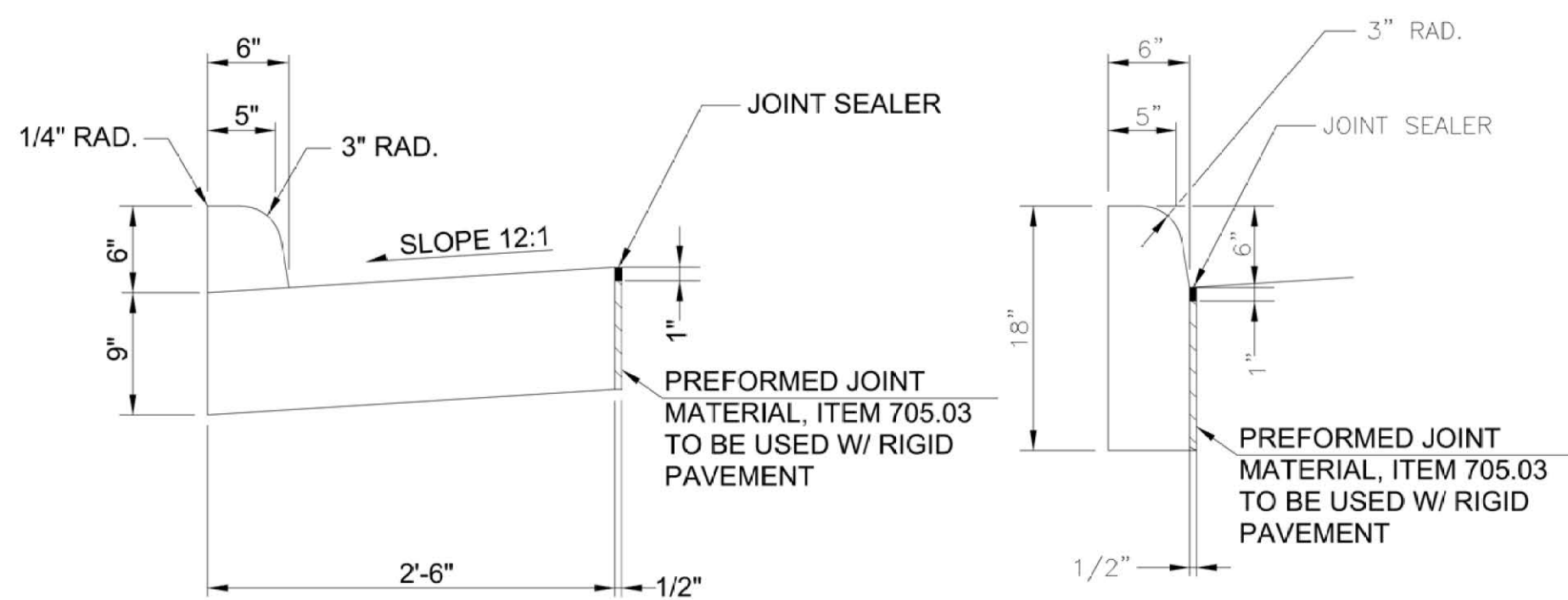
LAWN RESTORATION DETAIL



CONCRETE DRIVEWAY RESTORATION DETAIL

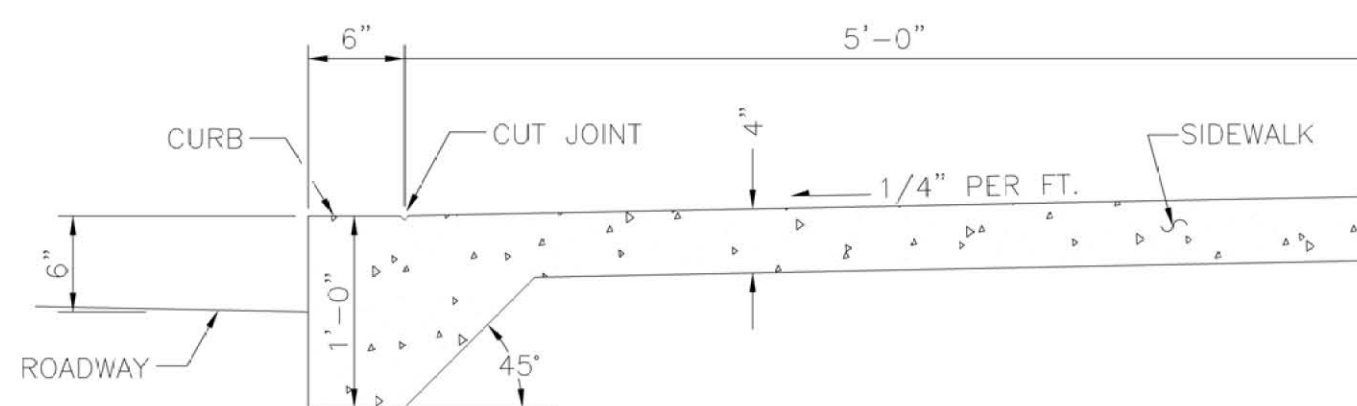


ASPHALT DRIVEWAY RESTORATION DETAIL

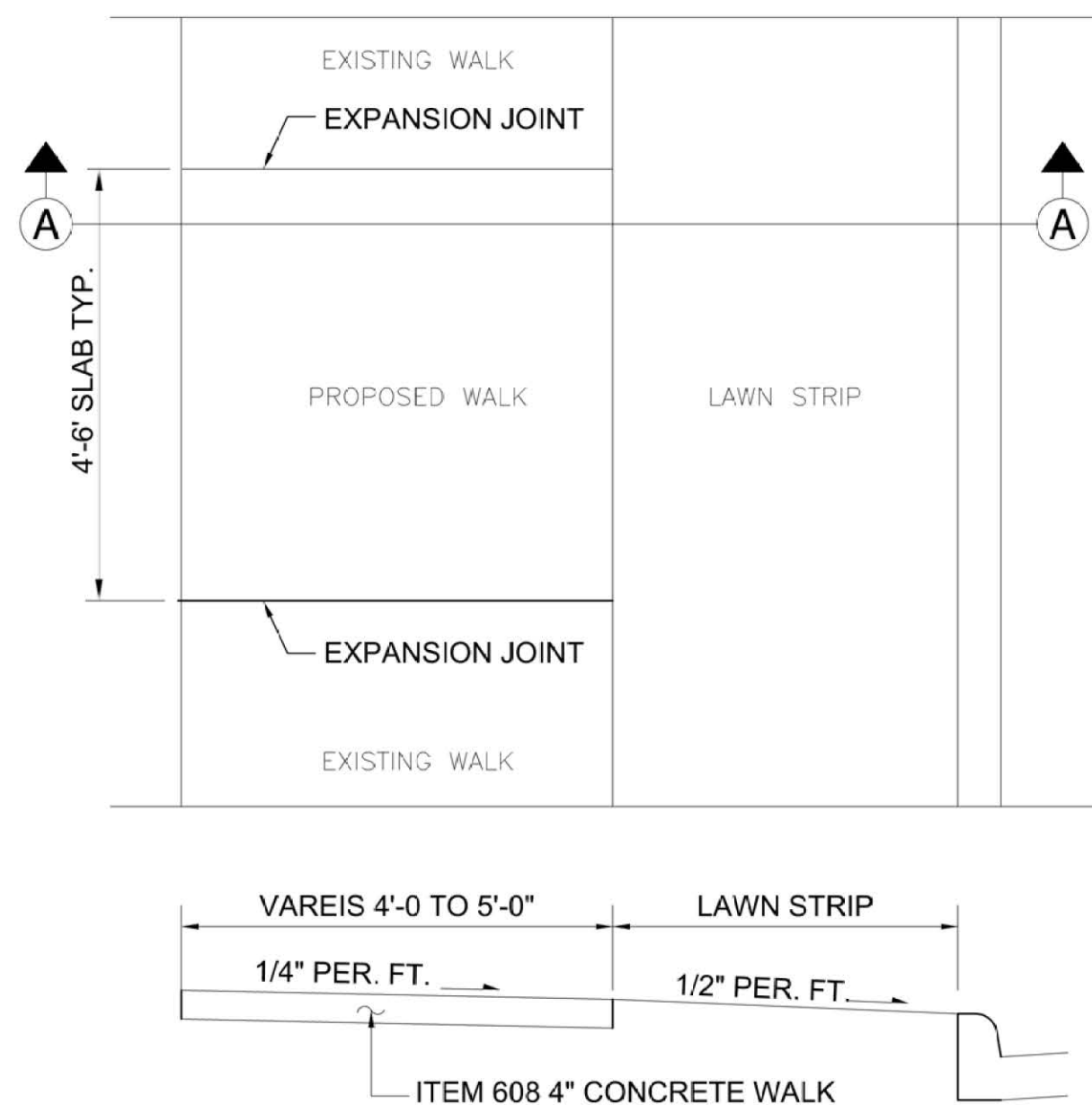


CURB TYPE 2

CURB TYPE 6



COMBINED CURB & SIDEWALK

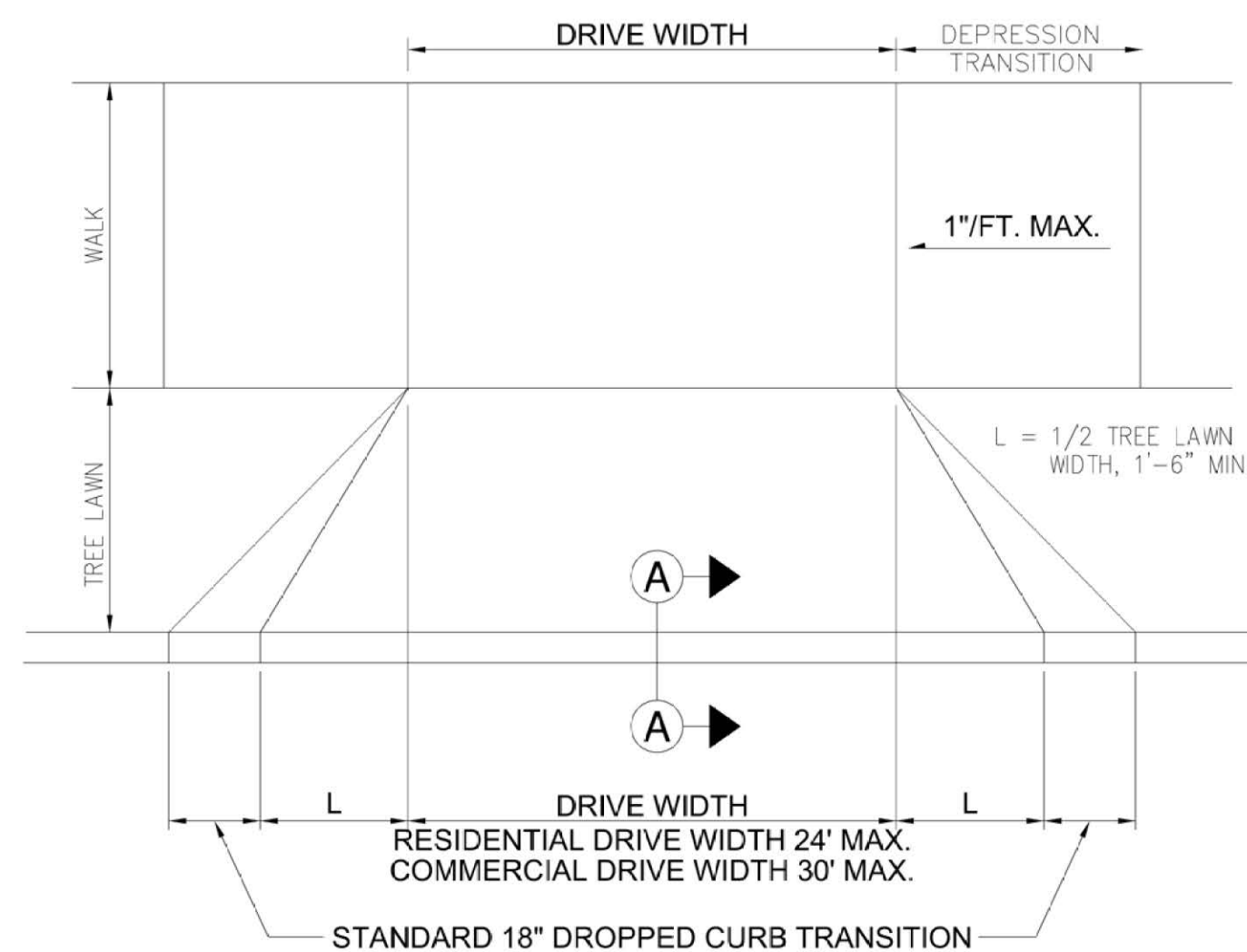


A-A

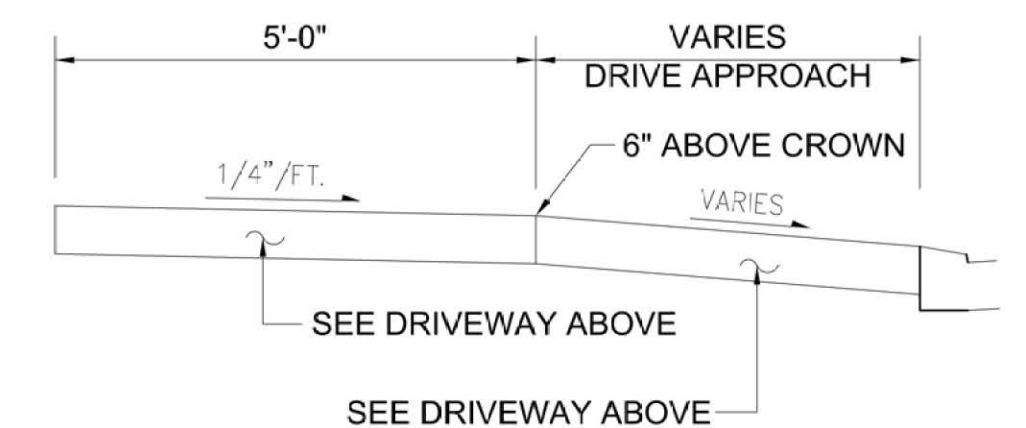
SIDEWALK

NOTE:

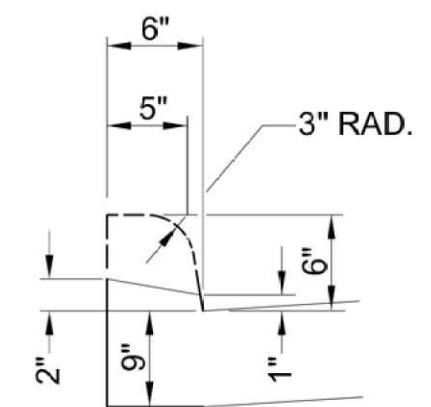
WITH EXISTING CONCRETE WALK, CURB OR DRIVE IS DISTURBED ENTIRE SLAB FROM EXISTING JOINTS SHALL BE REMOVED AND REPLACED UNLESS OTHERWISE DETERMINED BY CITY ENGINEER.



DRIVE PLAN



DRIVE PROFILE

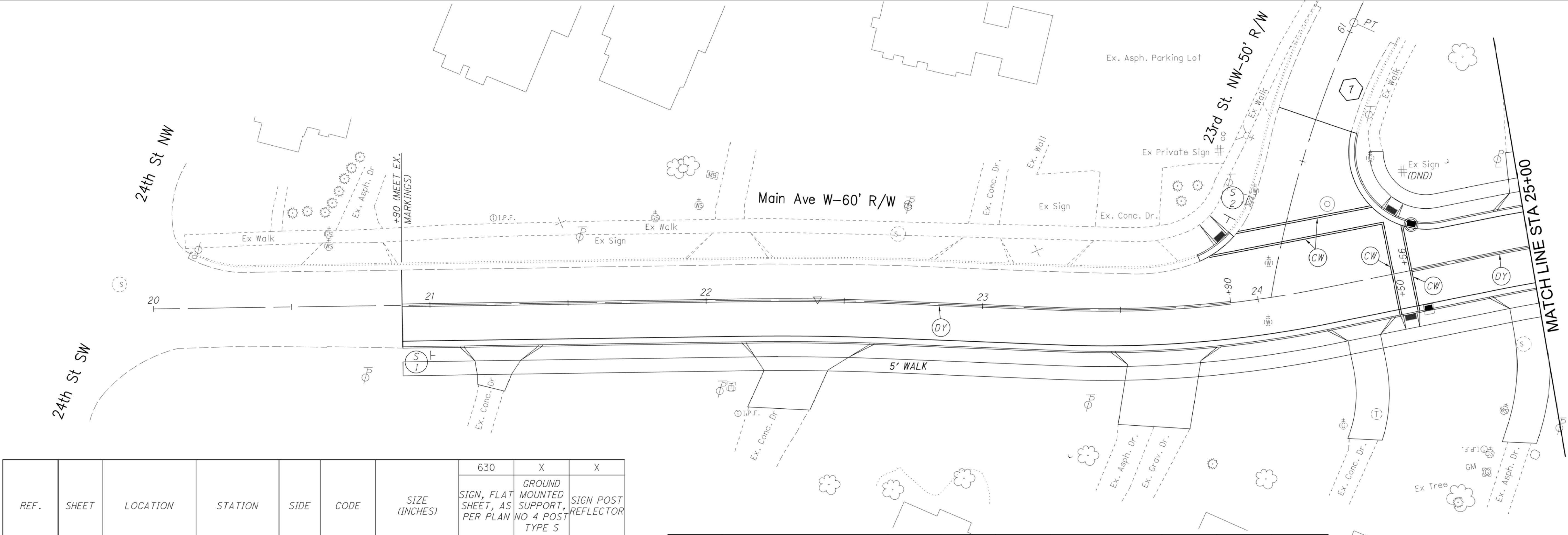


A-A

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
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	
					W2-6-30	30" X 30"	6.25	17.2	
S-17	48	Main Ave W	19+15	RT	W16-17P	24" X 12"	2.00		
					W13-1P-24	24" X 24"	4.00		
					R6-1R-36	36" X 12"	3.00	21.2	
S-18	48	Tremont Ave NW	10+23	LT	R6-4-30	30" X 24"	5.00		
					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
	TO	FROM		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
ROUNDAABOUT										
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
				FT	FT	MILE	MILE	MILE	FT	FT
TOTAL CARRIED TO GENERAL SUMMARY				220	36	0.02	0.07	0.14	86	38

0102040

HORIZONTAL SCALE IN FEET

STA Main/Tremont RAB

Main Ave W — Plan and Profile Sta. 20+00 to Sta. 24+00

City of Massillon

Stark County, Ohio

LOGO:

MASSILLON OHIO

DESIGNER

FPW

REVIEWER / DATE

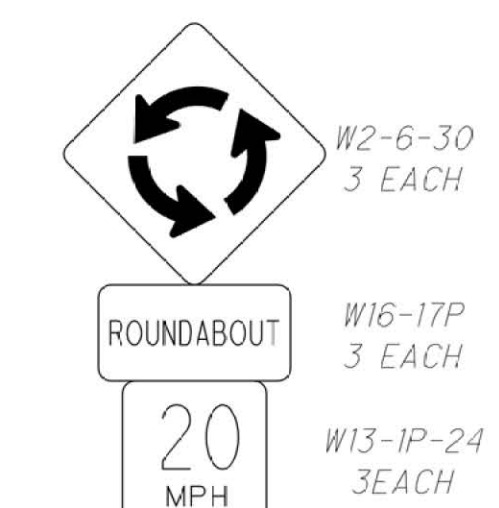
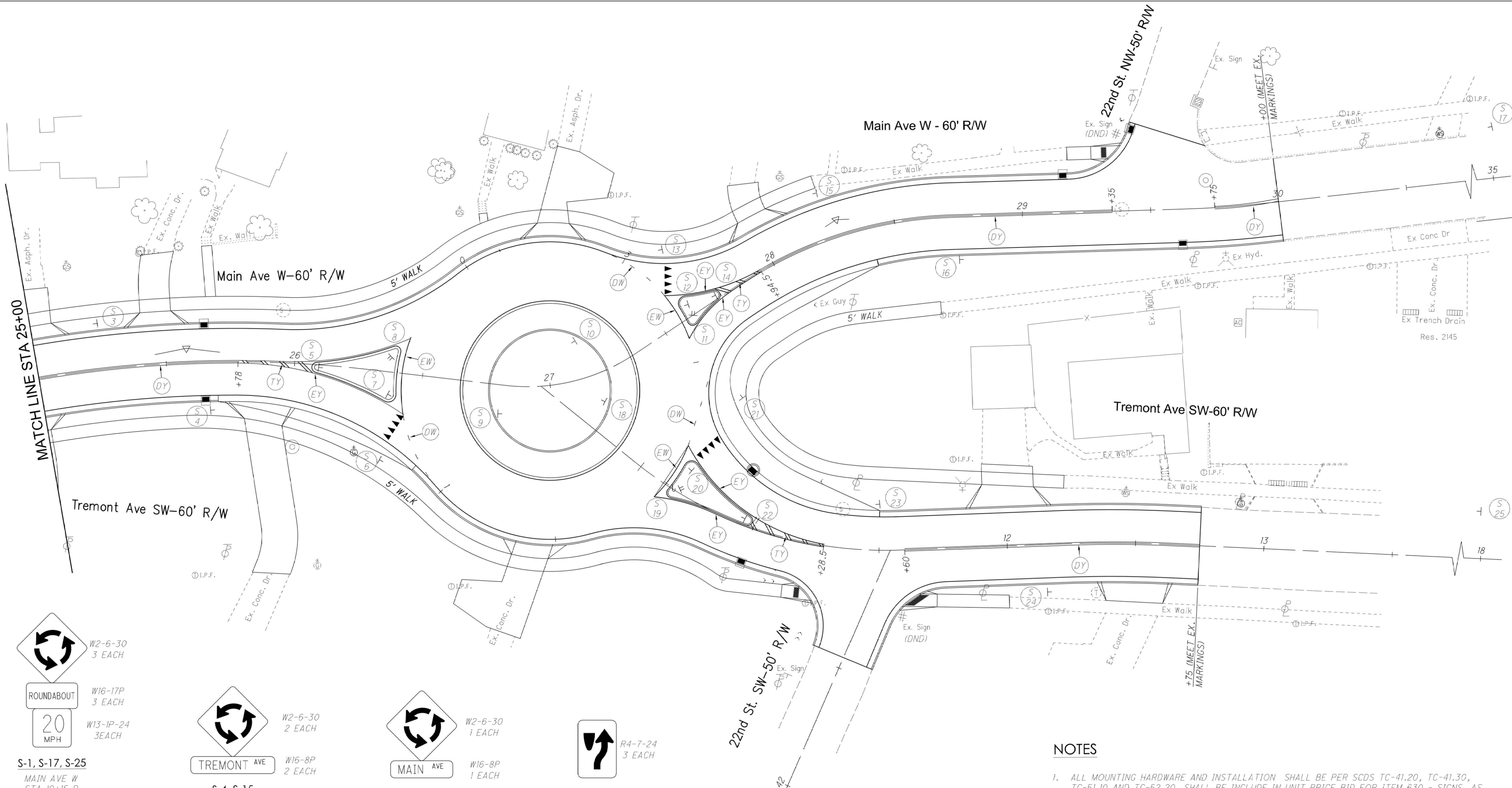
AP 7/2025

PROJECT ID

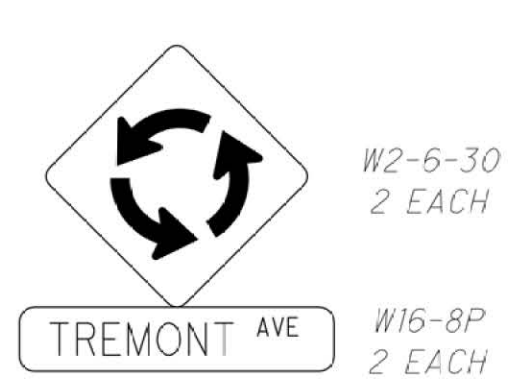
00s108/120493

SHT NO. TOTAL

46 48



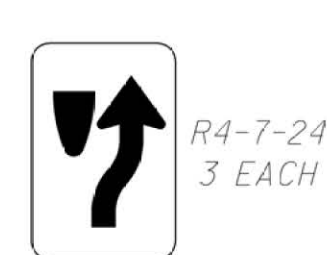
S-1, S-17, S-25
MAIN AVE W
STA 19+15 R
STA 35+00 L
TREMONT AVE NW
18+00 L



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



S-23
TREMONT AVE NW
STA 11+50 L



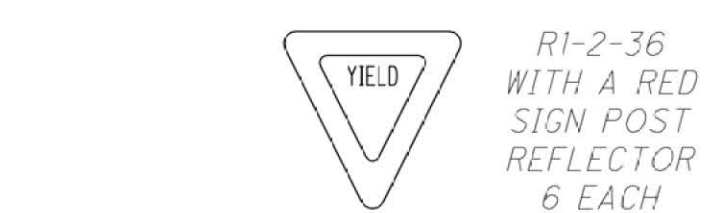
S-5, S-14, S-22
MAIN AVE W
STA 26+10 R
STA 27+74 L
TREMONT AVE W
STA 10+95 L



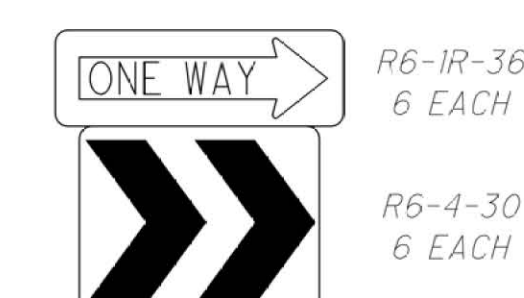
S-8, S-11
MAIN AVE W
STA 26+35
STA 27+63



S-19
TREMONT AVE W
STA 10+68



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

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 |

0 20 40

HORIZONTAL
SCALE IN FEET

Main Ave W & Tremont Ave SW Roundabout

Main Ave W - Plan and Profile Sta. 20+00 to Sta. 24+00

City of Massillon

Stark County, Ohio

LOGO:

DESIGNER

FW

REVIEWER / DATE

AP 7/2025

PROJECT ID

00s108/120493

SHT NO.

47

TOTAL

48

