

PERRY COUNTY

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I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.05.

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

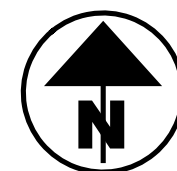
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PROJECT ID:

PROJECT ID
124377

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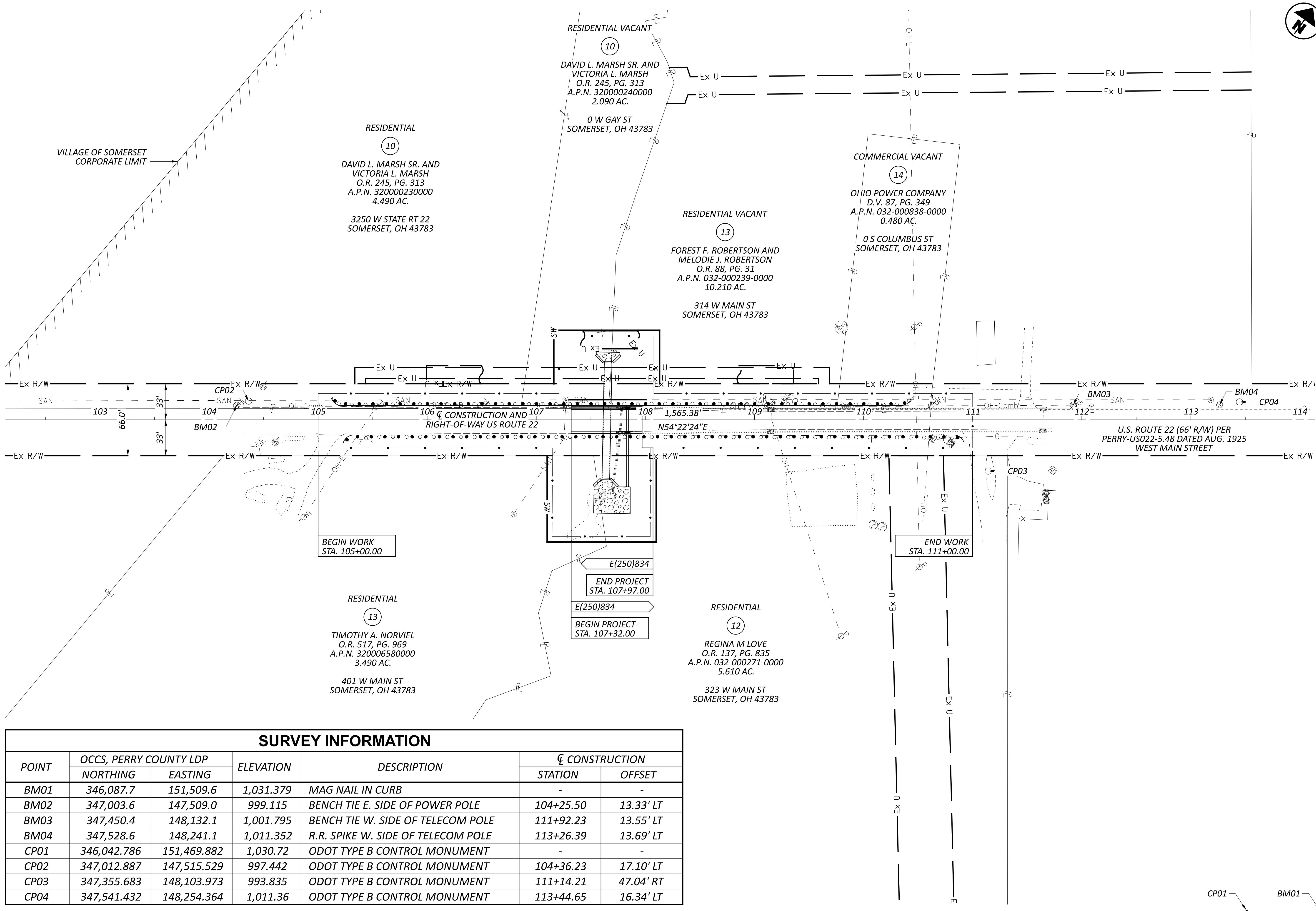
SHEET	TOTAL
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ADR
ADR & ASSOCIATES, LTD.

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CB-03	7/17/2026	TC-41.20	10/18/2013				SS800	7/17/2026
		TC-42.20	10/18/2013				SS832	7/17/2026
DM-1.1	7/17/2026	TC-61.30	7/19/2024					
DM-4.3	1/15/2016							
DM-4.4	1/15/2016	BP-3.1	1/19/2024					
MGS-2.1	7/17/2026							
MGS-4.2	7/17/2026							
RD-5.1	7/17/2026							
HW-1	7/18/2025							
HW-2.1	7/15/2022							
MT-101.60	1/17/2025							



SURVEY INFORMATION

POINT	OCCS, PERRY COUNTY LDP		ELEVATION	DESCRIPTION	☒ CONSTRUCTION	
	NORTHING	EASTING			STATION	OFFSET
BM01	346,087.7	151,509.6	1,031.379	MAG NAIL IN CURB	-	-
BM02	347,003.6	147,509.0	999.115	BENCH TIE E. SIDE OF POWER POLE	104+25.50	13.33' LT
BM03	347,450.4	148,132.1	1,001.795	BENCH TIE W. SIDE OF TELECOM POLE	111+92.23	13.55' LT
BM04	347,528.6	148,241.1	1,011.352	R.R. SPIKE W. SIDE OF TELECOM POLE	113+26.39	13.69' LT
CP01	346,042.786	151,469.882	1,030.72	ODOT TYPE B CONTROL MONUMENT	-	-
CP02	347,012.887	147,515.529	997.442	ODOT TYPE B CONTROL MONUMENT	104+36.23	17.10' LT
CP03	347,355.683	148,103.973	993.835	ODOT TYPE B CONTROL MONUMENT	111+14.21	47.04' RT
CP04	347,541.432	148,254.364	1,011.36	ODOT TYPE B CONTROL MONUMENT	113+44.65	16.34' LT

SCHEMATIC PLAN

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

SHEET

P.02

TOTAL

15

IRON PINS AND MONUMENTS

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR THEM. IF ANY IRON PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY AN OHIO REGISTERED SURVEYOR AT THE COMPLETION OF THE PROJECT AND AT NO EXPENSE TO THE CITY OF SOMERSET OR THE PROPERTY.

SURVEY PARAMETERS

OHIO COUNTY COORDINATE SYSTEM (OCCS)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.02 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: STATIC OBSERVATION W/ OPUS SOLUTION
MONUMENT TYPE: ODOT TYPE B CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT: 314.16(M)
GEOID: GEOID18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 80
COORDINATE SYSTEM: OCCS, PERRY COUNTY LDP
FALSE NORTHING: 100,000 M
FALSE EASTING: 50,000 M
MAP PROJECTION: LAMBERT CONFORMAL CONIC 1 PARALLEL
CENTRAL LATITUDE: E 277° 45'00"
CENTRAL LONGITUDE: N 39°45'00"
PROJECTION SCALE FACTOR: 1.000038

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 CONSTRUCTION AND MATERIALS SPECIFICATIONS 623.

UNITS ARE IN U.S. SURVEY FEET.

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.

USE OF FIRE HYDRANTS

THE CONTRACTOR IS HEREBY NOTIFIED THAT THE USE OF FIRE HYDRANTS WILL NOT BE PERMITTED AND THAT THE USE OF FIRE HYDRANTS WILL RESULT IN THE CONTRACTOR'S PROSECUTION FOR THEFT OF A PUBLIC UTILITY. THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE TO ACCESS THEIR WATER SUPPLY.

NON-RUBBER TIRED VEHICLES

NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON STATE ROADS. EXCEPTIONS MAY BE GRANTED BY AN AUTHORIZED STATE OFFICIAL WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED FOR THE SATISFACTION OF THE STATE.

UTILITIES

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

AMERICAN ELECTRIC POWER CO. (DISTRIBUTION)
38831 STATE ROUTE 7
REEDSVILLE, OHIO 45772
ATTN: CLARK SAUNDERS
740-985-3054
cmsaunders@aep.com

COLUMBIA GAS OF OHIO
2429 LINDEN AVENUE
ZANESVILLE, OHIO 43701
ATTN: MICHAEL PAULUS
740-466-5131
MPaulus@nisource.com

AT&T OHIO
160 NORTH SIXTH STREET
ZANESVILLE, OHIO 43701
ATTN: BARRETT TAMASOVICH
740-454-3552
BT2178@att.com

SPECTRUM CABLE TV
737 HOWARD ST.
ZANESVILLE, OHIO 43701
ATTN: CHAD JOSEPH
740-819-0705
Chad.Joseph@charter.com

VILLAGE OF SOMERSET
WATER AND SEWER
ATTN: PAUL WEINER
740-743-2963
somerset.fiscalofficer@@yahoo.com

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

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.

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 PM AND 7 AM. 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.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	13	0	13
30"	2	0	2

ITEM 203, EMBANKMENT

DUE TO ONGOING CHANGES IN EXISTING CONDITIONS AFTER THE CONCLUSION OF THE TOPOGRAPHIC SURVEY THE FOLLOWING QUANTITY IS INCLUDED FOR USE AS DIRECTED BY THE ENGINEER: QUANTITIES TO BE INCLUDED IN THE NEXT SUBMISSION.

ITEM 203, EMBANKMENT: ____ CUBIC YARDS

ITEM 204, PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. QUANTITIES TO BE INCLUDED IN THE NEXT SUBMISSION.

ITEM 204 - PROOF ROLLING _ HOUR

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS: QUANTITIES TO BE INCLUDED IN THE NEXT SUBMISSION.

ITEM 659, SOIL ANALYSIS TEST 2 EACH
ITEM 659, TOPSOIL ____ CUBIC YARD
ITEM 659, SEEDING AND MULCHING _ ____ SQUARE YARD
ITEM 659, REPAIR SEEDING AND MULCHING ____ SQUARE YARD
ITEM 659, COMMERCIAL FERTILIZER _._ TON
ITEM 659, LIME _._ ACRES
ITEM 659, WATER _ M. GALLON

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.

PAVEMENT REPLACEMENT LIMIT

FULL DEPTH PAVEMENT, CURB AND GUTTER, SANITARY SEWER, WATER LINE, PAVEMENT MARKINGS, AND STORM SEWER LIMITS ARE SHOWN IN THE PLANS. THE CONTRACTOR MAY ELECT TO PERFORM ADDITIONAL REPLACEMENT BEYOND THE LIMITS SHOWN IN THE PLANS AT NO ADDITIONAL COST TO THE VILLAGE. PAY LIMITS WILL BE BASED ON LIMITS SHOWN IN THE PLANS

MAINTENANCE OF TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 45 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET P.05. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$ _____. PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. AMOUNT TO BE INCLUDED IN THE NEXT SUBMISSION.

NOTICE OF CLOSURE SIGNS (W20-H-14) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGN SHALL DISPLAY THE DATE OF CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H14 SIGN LISTS THE APPLICABLE AGENCY NAME IN WHICH A MOTORIST MAY CONTACT FOR ADDITIONAL INFORMATION.

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (hauling.permits@dot.ohio.gov) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION INCLUDED, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD CLOSURES	≥ 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	≥ 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

SHEET	TOTAL
P.03	15

ITEM 638, WATER WORK, MISC.: 6 INCH WATER MAIN, AWWA C906
PROPOSED WATER MAIN SHALL MEET THE REQUIREMENTS OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 638 EXCEPT AS MODIFIED BELOW.

NOTIFICATION
THE CONTRACTOR SHALL NOTIFY THE VILLAGE (740-743-2963) FORTY-EIGHT (48) HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF THE CONSTRUCTION OF WATER AND/OR SANITARY SEWER UTILITIES. WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN SEVEN DAYS, THE CONTRACTOR SHALL NOTIFY THE VILLAGE FORTY-EIGHT (48) HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO RESUMING CONSTRUCTION. CONSTRUCTION SHALL NOT START PRIOR TO THE REQUIRED NOTICE BEING GIVEN.

PERMITS
THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND REQUIREMENTS.

CROSSINGS
ALL WATER MAINS AND SERVICES SHALL BE CONSTRUCTED WITH AT LEAST 10 FEET HORIZONTAL SEPARATION AND AT LEAST AN 18-INCH VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWERS.

CONNECTING WATERLINES
THE CONNECTION OF PROPOSED WATERLINES TO EXISTING WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING THE DISCONNECTION AND RE-CONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M., OR AS DIRECTED BY THE VILLAGE. NO SUCH WORK SHALL BEGIN UNTIL THE FIRE DEPARTMENT, VILLAGE, COUNTY SHERIFF'S OFFICE AND RESIDENTS WHOSE SERVICES WILL BE AFFECTED ARE ALL NOTIFIED AT LEAST ONE HUNDRED TWENTY (120) HOURS PRIOR TO THE CONNECTION, OF THE EXTENT, NATURE AND TIME OF THE ANTICIPATED WORK, NOR UNTIL THE METHOD AND SCHEDULE OF SUCH WORK HAS BEEN APPROVED BY THE VILLAGE.

CONFLICTS
WHEN CONFLICTS IN GRADE BETWEEN WATERLINES AND SEWERS ARE FOUND DURING CONSTRUCTION, THE WATERLINES SHALL BE LOWERED, UNLESS DIRECTED OTHERWISE BY THE DISTRICT. A MINIMUM VERTICAL SEPARATION OF 18 INCHES, MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE MAINTAINED.

MINIMUM DEPTH
WATER LINES SHALL BE LAID WITH A MINIMUM OF FOUR (4) FEET OF COVER FROM THE FINAL PROPOSED GROUND OR PAVEMENT GRADE TO THE TOP OF THE WATERLINE.

LINE CROSSINGS
AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND ALL SEWERS SHALL BE TEN (10) FEET MEASURED FROM THE OUTSIDE OF EACH PIPE. THE MINIMUM VERTICAL SEPARATION AT CROSSINGS OF WATER MAINS AND ALL SEWERS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF EACH PIPE.

DISINFECTION
ALL WATER MAINS SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF AWWA SPECIFICATION C651. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS OF FLUSHING AND CHLORINATING VALVES AND FIRE HYDRANTS. RESULTS OF THE DISINFECTION TESTS SHALL BE FURNISHED TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE SYSTEM. TESTING FOR ACCEPTANCE TO BE CONDUCTED AFTER ALL OTHER UTILITIES LOCATED WITHIN THE RIGHT-OF-WAY ARE INSTALLED.

TESTING
A HYDROSTATIC TEST, AS REQUIRED IN SECTION 7.3 OF AWWA SPECIFICATION C605 FOR PVC PIPE AS APPLICABLE, SHALL BE APPLIED TO THE WATER MAIN. IF THERE ARE INDICATIONS OF LEAKS UNDER THIS PRESSURE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR ALL LEAKS AT THE CONTRACTOR'S EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. ALL BENDS, JOINT DEFLECTIONS AND HYDRANTS SHALL HAVE CONCRETE BACKING, AND ALL VALVES SHALL HAVE CONCRETE SUPPORTS, IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS. TESTING FOR ACCEPTANCE TO BE CONDUCTED AFTER ALL OTHER UTILITIES LOCATED WITHIN THE RIGHT-OF-WAY ARE INSTALLED.

INSTALLATION IN EMBANKMENT
WHERE WATER MAINS ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE INSTALLATION OF THE WATER MAIN. THE WATER MAIN SHALL BE INSTALLED WITH A MINIMUM OF FOUR (4) FEET OF COVER IN ALL DIRECTIONS.

VALVE OPERATION
EXISTING VALVES SHALL BE OPERATED BY VILLAGE PERSONNEL ONLY.

CONSTRUCTION AND MATERIAL SPECIFICATIONS
WATER MAIN PIPE SHALL BE PVC PLASTIC PIPE, AWWA C906 THE DIMENSION RATIO SHALL MATCH THE EXISTING CONDUIT. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE. BLUE METALLIC FIELD LOCATOR TAPE OF SIX (6) INCH WIDTH SHALL BE PLACED OVER ALL WATER MAINS, WITHIN 12 TO 18 INCHES OF FINISHED GRADE.

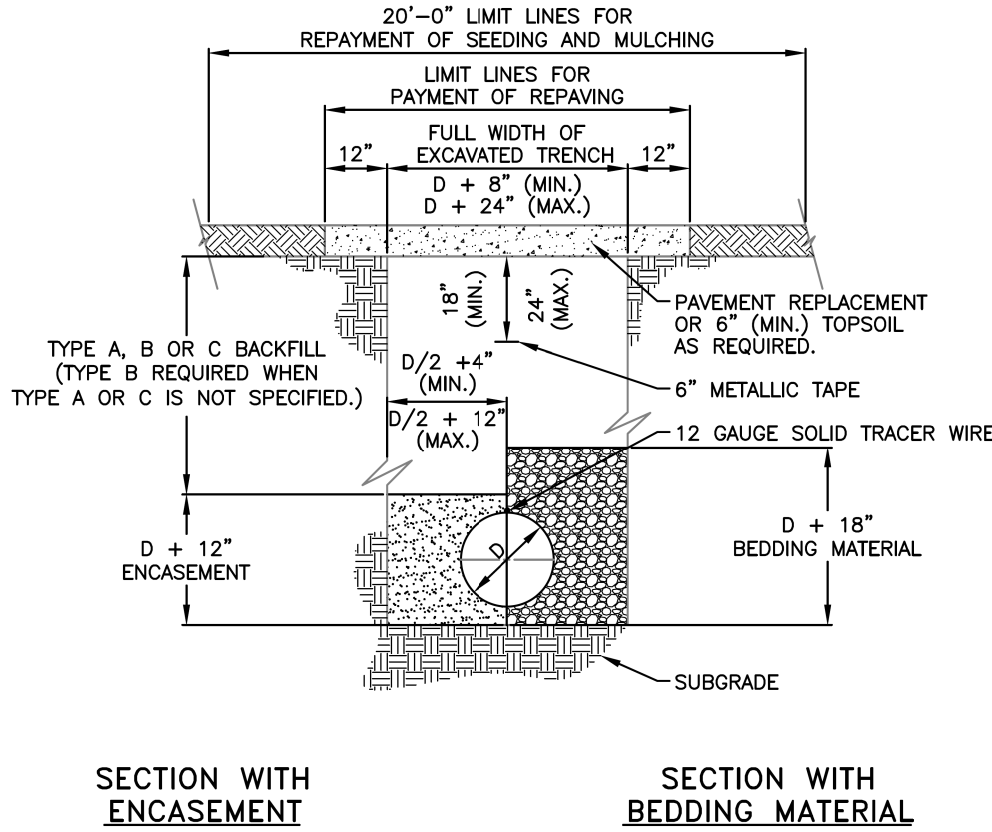
THE CONTRACTOR SHALL MAINTAIN THE WATER MAIN THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT THE EXISTING AND PROPOSED WATER MAIN THROUGHOUT CONSTRUCTION.

THE FOLLOWING UNITY HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 638, WATER WORK, MISC.: 6 INCH WATER MAIN, AWWA C906
___ FOOT

TYPICAL TRENCH FOR FLEXIBLE PIPE

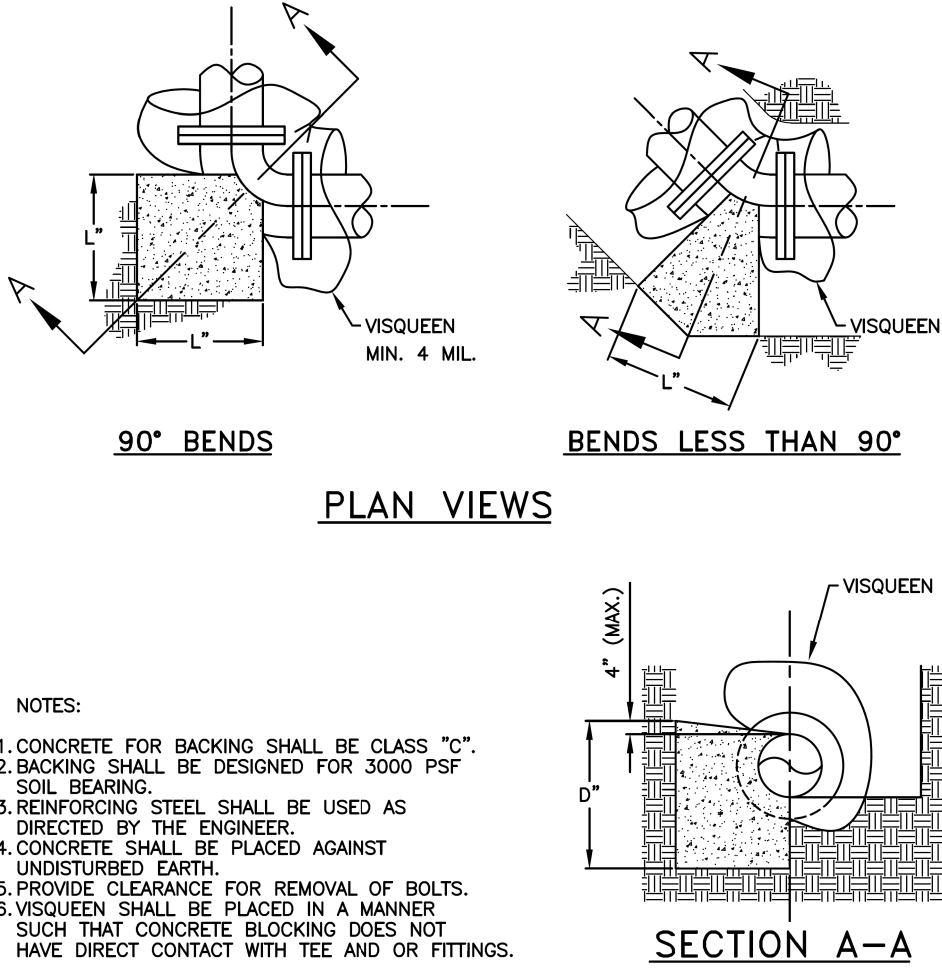
- NOTES:
- ITEM NUMBERS REFER TO THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.
 - AGGREGATE FOR BEDDING SHALL BE WASHED GRAVEL AND BE NO. 57 PER CMS 304.02.
 - TYPE A BACKFILL SHALL BE GRANULAR MATERIAL AS SPECIFIED IN ITEM 703.11, GRANULAR MATERIAL, TYPE 2. TYPE A BACKFILL SHALL BE USED WHEN THE TRENCH IS 5' OR LESS FROM ANY PAVED OR GRAVEL SURFACE OR BENEATH THE PAVEMENT OR GRAVEL. COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 203.
 - TYPE B BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM LABORATORY DRY WEIGHT.
 - TYPE C BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 6" ACROSS THEIR GREATEST DIMENSION, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL, COMPACTED TO 90% OF ITS MAXIMUM LABORATORY DRY WEIGHT. WHEN APPROVED BY THE CONTRACT ADMINISTRATOR, STONES NO LARGER THAN ONE CUBIC FOOT MAY BE DEPOSITED AT LEAST 3' ABOVE THE TOP OF THE PIPE.
 - THE EXCAVATED TRENCH WIDTH 12" ABOVE THE CONDUIT MAY BE INCREASED WITHOUT ADDITIONAL COMPENSATION.
 - FLEXIBLE PIPE SHALL INCLUDE PVC AND POLYETHYLENE.
 - ENCASEMENT SHALL BE CLASS C CONCRETE.



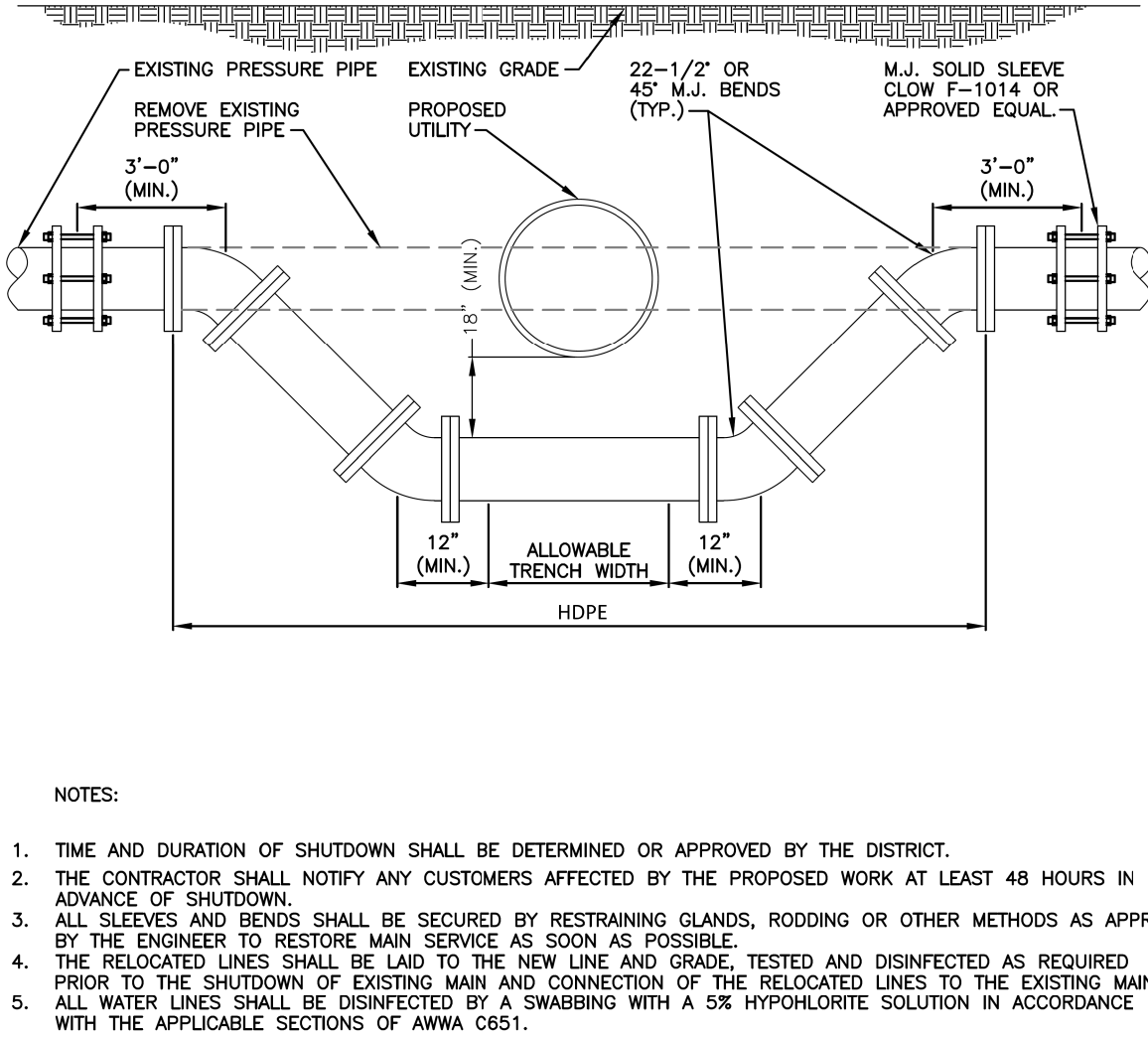
TYPICAL BACKING FOR BENDS

H/W R/L	DEGREE OF BEND											
	11 1/4'				22 1/2'				45'			
	L	D	V		L	D	V		L	D	V	
3"	4	3	0.1	6	4	0.2	10	4	0.3	10	4	0.3
4"	5	4	0.2	9	5	0.4	14	5	0.6	14	5	0.6
6"	8	6	0.5	12	7	0.7	20	8	1.4	18	9	1.7
8"	9	8	0.7	16	9	1.4	24	12	2.7	25	11	4.0
12"	14	12	1.8	24	14	3.6	36	18	6.8	32	18	10.7
16"	18	16	3.4	32	18	6.7	36	32	13.4	41	26	25.4
20"	25	20	6.4	30	30	11.5	48	36	20.5	50	32	46.5
24"	27	24	9.0	39	34	18.4	60	42	35.0	58	40	77.7

V = VOLUME OF CONCRETE IN CUBIC FEET



TYPICAL PRESSURE PIPE LOWERING



DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

SHEET

P.04

TOTAL

15

SANITARY SEWER

ALL SANITARY SEWERS

- 1. MATERIAL SPECIFICATION: ASTM D-3034, SDR 35;
 - A. ALL SANITARY SEWERS WITH MORE THAN 15' OF COVER SHALL BE CONSTRUCTED WITH SDR 26 PIPE.
- 2. JOINT SPECIFICATION: ASTM D-3212;
- 3. BEDDING CLASSIFICATION: ASTM D-2321 (#57 STONE)

TESTING (ALL SANITARY SEWERS)

- 1. MANDREL TEST: THE CONTRACTOR SHALL MANDREL TEST ALL PVC SANITARY SEWER PIPE FOR DEFLECTION A MINIMUM OF 30 DAYS AFTER INSTALLATION. PIPE DEFLECTION SHALL NOT EXCEED 5%.
- 2. LEAKAGE TEST: (HYDROSTATIC OR AIR)
 - HYDROSTATIC (MINIMUM 2' POSITIVE HEAD): INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLON/INCH DIAMETER/MILE/DAY.
 - AIR: ASTM F-1417

WHERE THE SANITARY SEWER CROSSES UNDER A PROPOSED STORM SEWER, THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER WITH COMPACTED GRANULAR MATERIAL.

ALL SANITARY SEWERS SHALL BE STAKED BY A REGISTERED SURVEYOR AT 25 FOOT STATIONS UNLESS A LASER IS USED AND THEN THEY SHALL BE STAKED AT 100 FOOT STATIONS.

SANITARY SEWERS AND WATERLINES SHALL MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE. WHENEVER A SANITARY SEWER AND WATERLINE CROSS WITH LESS THAN 18" CLEARANCE, THE SANITARY SEWER CROSSING SHALL BE PRESSURE PIPE OF THE SAME INSIDE DIAMETER AS THE GRAVITY PIPE. A FULL LENGTH OF SANITARY SEWER PIPE SHALL BE CENTERED ON THE WATERLINE.

10 FEET OF SEPARATION SHALL BE MAINTAINED BETWEEN WATER SERVICES AND SEWER LATERALS.

THE CONTRACTOR SHALL MAINTAIN SERVICE IN THE EXISTING SEWER LINE WHEN CONSTRUCTING THE PROPOSED SEWER CONNECTION.

SANITARY SEWER FLOW

AVAILABLE VILLAGE INFORMATION INDICATES APPROXIMATELY 450 GPM NORMAL FLOW AND 800 GPM PEAK FLOW THROUGH THE EXISTING 8-INCH SANITARY SEWER. THESE VALUES ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROVIDE A SANITARY FLOW-MAINTENANCE/BYPASS SYSTEM OF ADEQUATE CAPACITY TO MAINTAIN UNINTERRUPTED SERVICE DURING CONSTRUCTION.

SANITARY NOTES

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

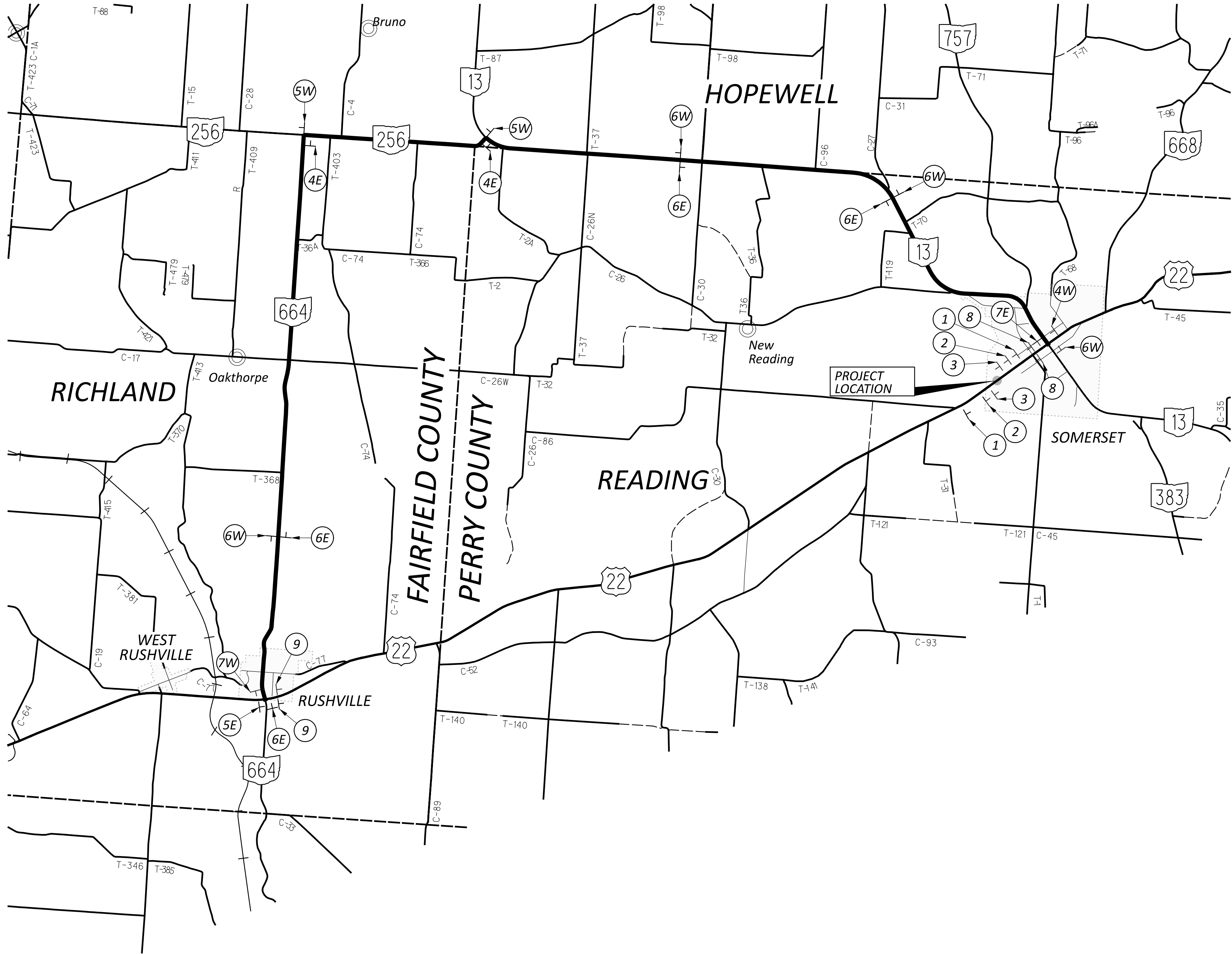
SHEET

P.05

TOTAL

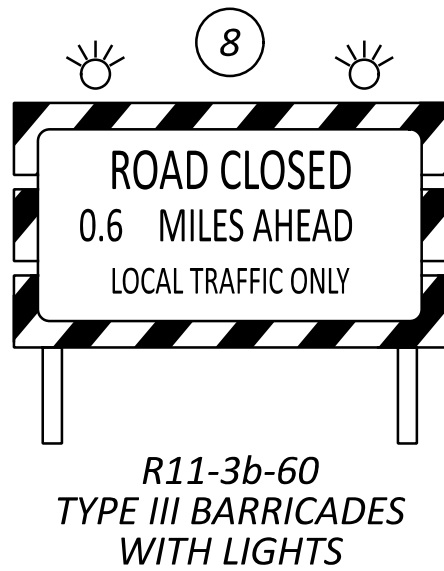
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GENERAL SUMMARY	
DESIGN AGENCY  DESIGN • ENGINEERING • INNOVATION An Employee Owned Company 88 West Church Street Newark, OH 43055 (740) 345-1921 (ph) www.adrinnovation.com	
DESIGNER XXX	
REVIEWER XXX MM-DD-YY	
PROJECT ID 124377	
SHEET P.06	TOTAL 15



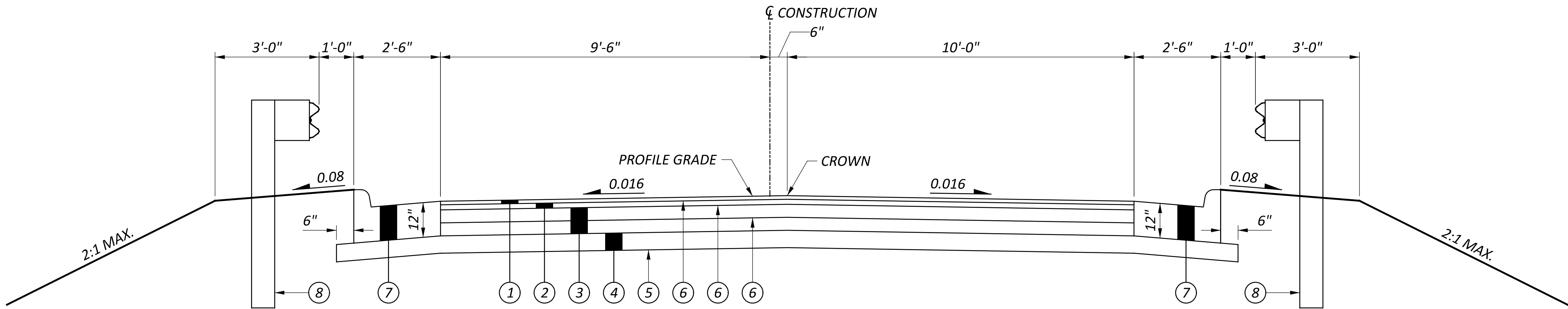
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DETOUR ROUTE

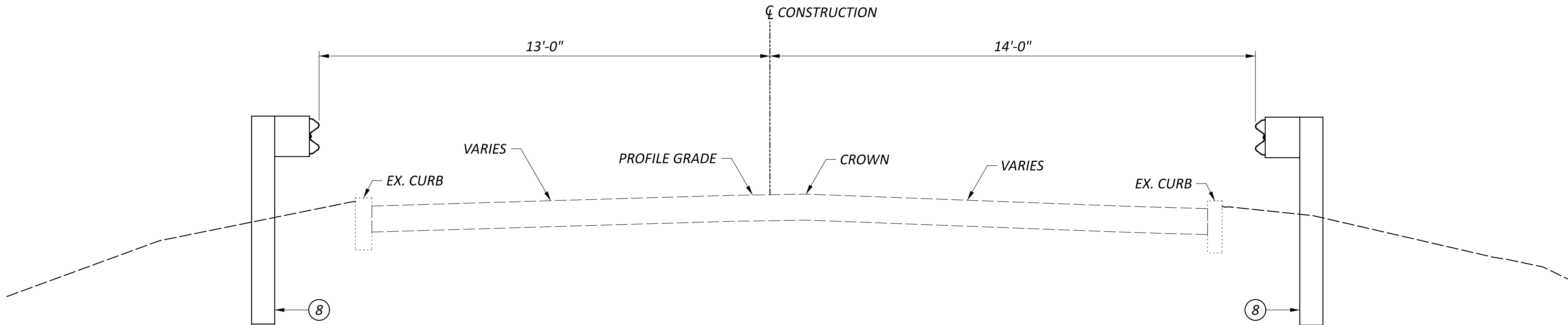


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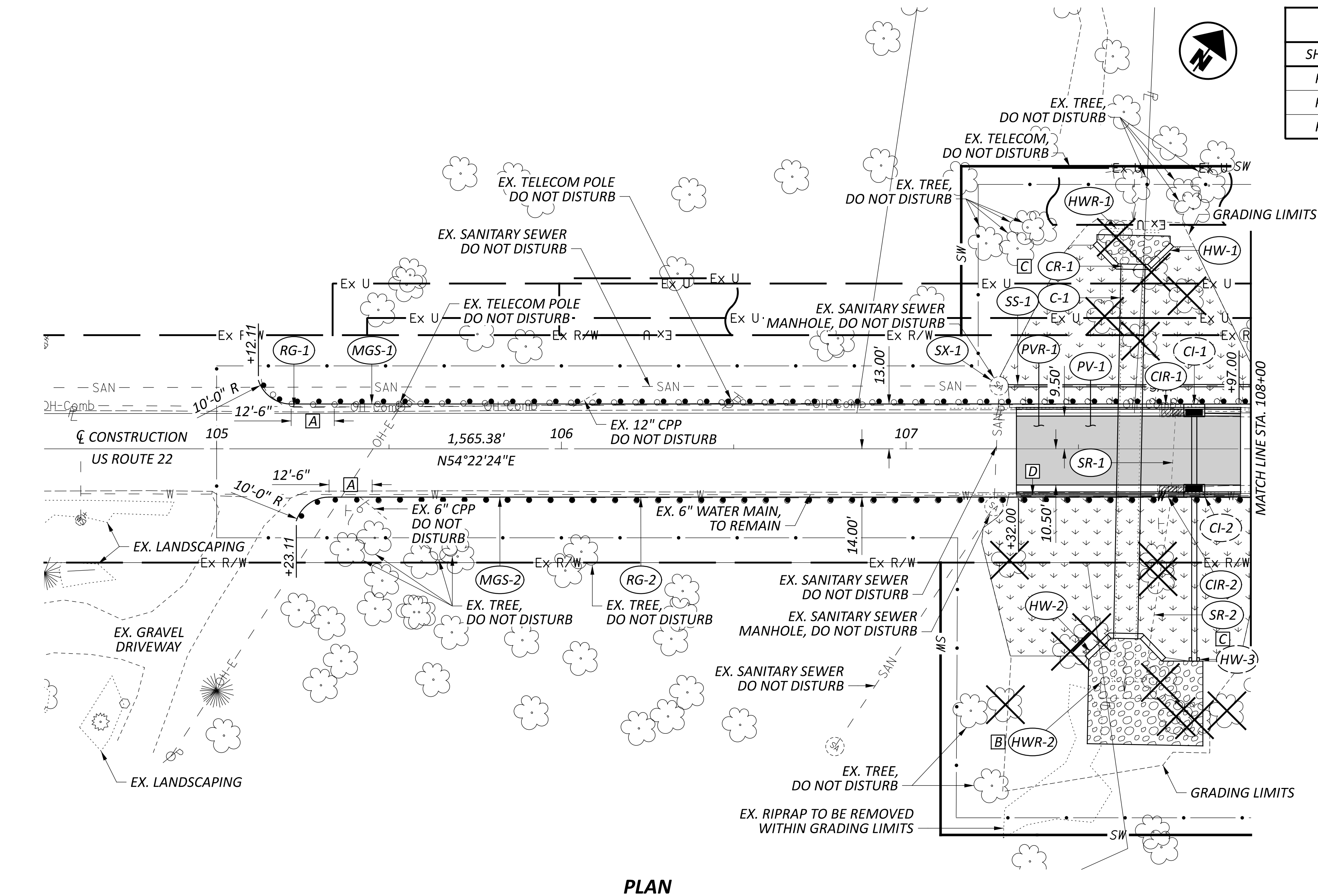
- ① ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 441 - 1¾" ASPHALT INTERMEDIATE COURSE, TYPE 2
- ③ ITEM 301 - 9" ASPHALT CONCRETE BASE, (449), PG64-22 (PLACED IN 2 LIFTS)
- ④ ITEM 304 - 6" AGGREGATE BASE
- ⑤ ITEM 204 - SUBGRADE COMPACTION
- ⑥ ITEM 407 - TACK COAT
- ⑦ ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
- ⑧ ITEM 606 - GUARDRAIL, TYPE MGS
- ⑨ ITEM 659 - SEEDING AND MULCHING



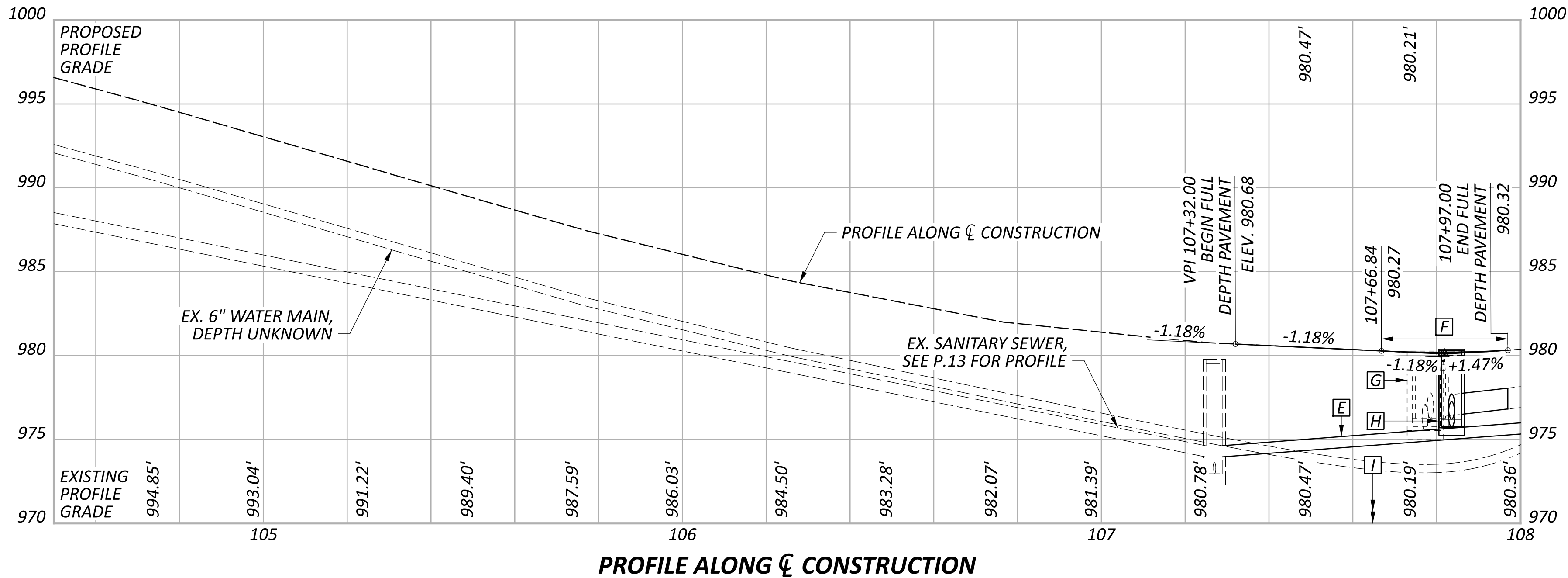
NORMAL SECTION
STA. 107+32.00 TO STA. 107+97.00



GUARDRAIL SECTION
STA. 105+12.11 TO STA. 110+43.59, LEFT
STA. 105+23.11 TO STA. 110+92.09, RIGHT



PLAN



PROFILE ALONG $\hat{C}$ CONSTRUCTION

CROSS REFERENCE	
SHEETS	DESCRIPTION
P.09	STORM SEWER PROFILE
P.10	CULVERT DETAILS
P.15	SANITARY SEWER PROFILE

LEGEND

- PR. ROCK CHANNEL PROTECTION, TYPE A, 48" THICK
- PR. FULL DEPTH PAVEMENT REPLACEMENT
- PR. SLOPE EROSION PROTECTION

CODED NOTES

- A** TYPE T ANCHOR ASSEMBLY
- B** THE EXISTING HEADWALL HAS SHIFTED AND SETTLED AFTER THE COMPLETION OF THE TOPOGRAPHIC SURVEY.
- C** PORTIONS OF THE EXISTING CONDUIT HAVE SHIFTED AND SETTLED SINCE THE CONCLUSION OF THE TOPOGRAPHIC SURVEY.
- D** EX. 6" WATER LINE, TO REMAIN, REPLACEMENT AS DIRECTED BY THE ENGINEER, SEE NOTE ON P.04.
- E** PR. SANITARY SEWER, SEE P.13 FOR PROFILE
- F** P.V.I. STA. 107+81.92
ELEV. = 980.09
30.16' V.C., K=11
- G** EX. STORM SEWER, SEE P.09 FOR PROFILE
- H** PR. STORM SEWER, SEE P.09 FOR PROFILE
- I** EX. 78' CULVERT AND PR. 84" CULVERT, SEE P.10 FOR CULVERT DETAILS

PLAN AND PROFILE
STATION 104+50 TO STATION 108+00



DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

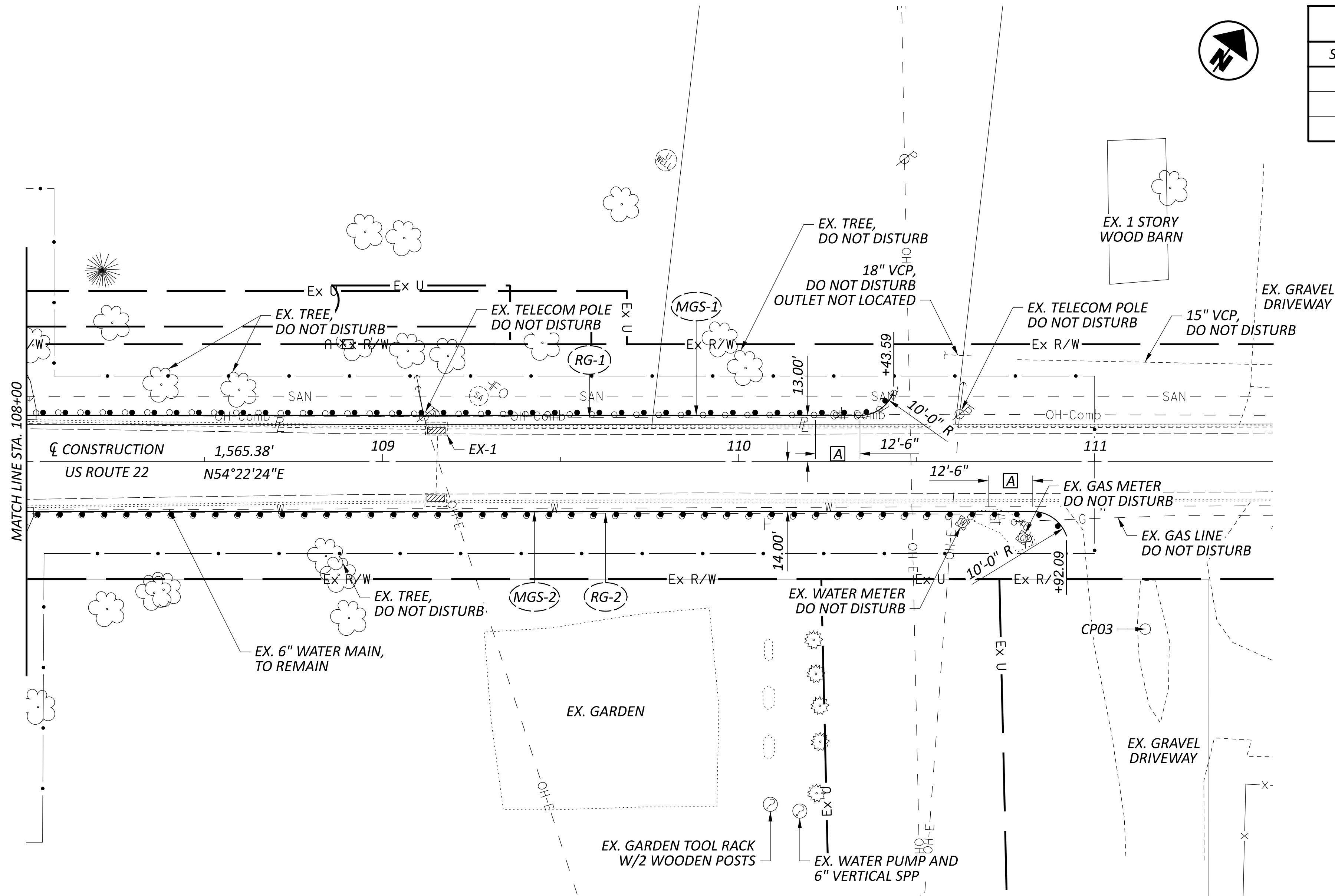
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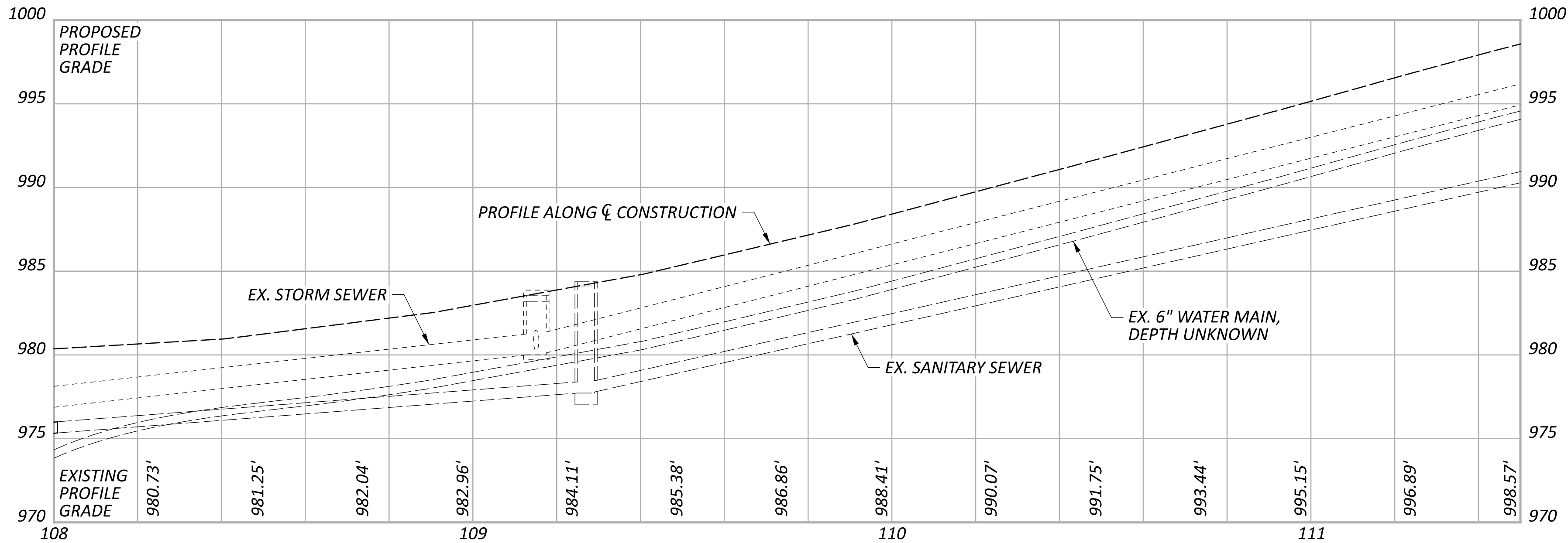
P.09

TOTAL

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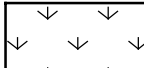
PLAN



PROFILE ALONG $\hat{C}$ CONSTRUCTION

CROSS REFERENCE	
SHEETS	DESCRIPTION
P.09	STORM SEWER PROFILE
P.10	CULVERT DETAILS
P.15	SANITARY SEWER PROFILE

LEGEND

 PR. SLOPE EROSION PROTECTION

CODED NOTES

 TYPE T ANCHOR ASSEMBLY

PLAN AND PROFILE
STATION 108+00 TO STATION 111+50

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

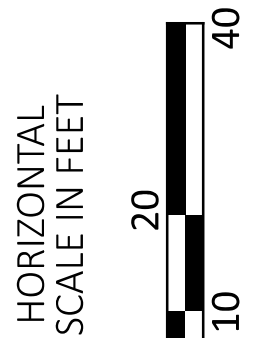
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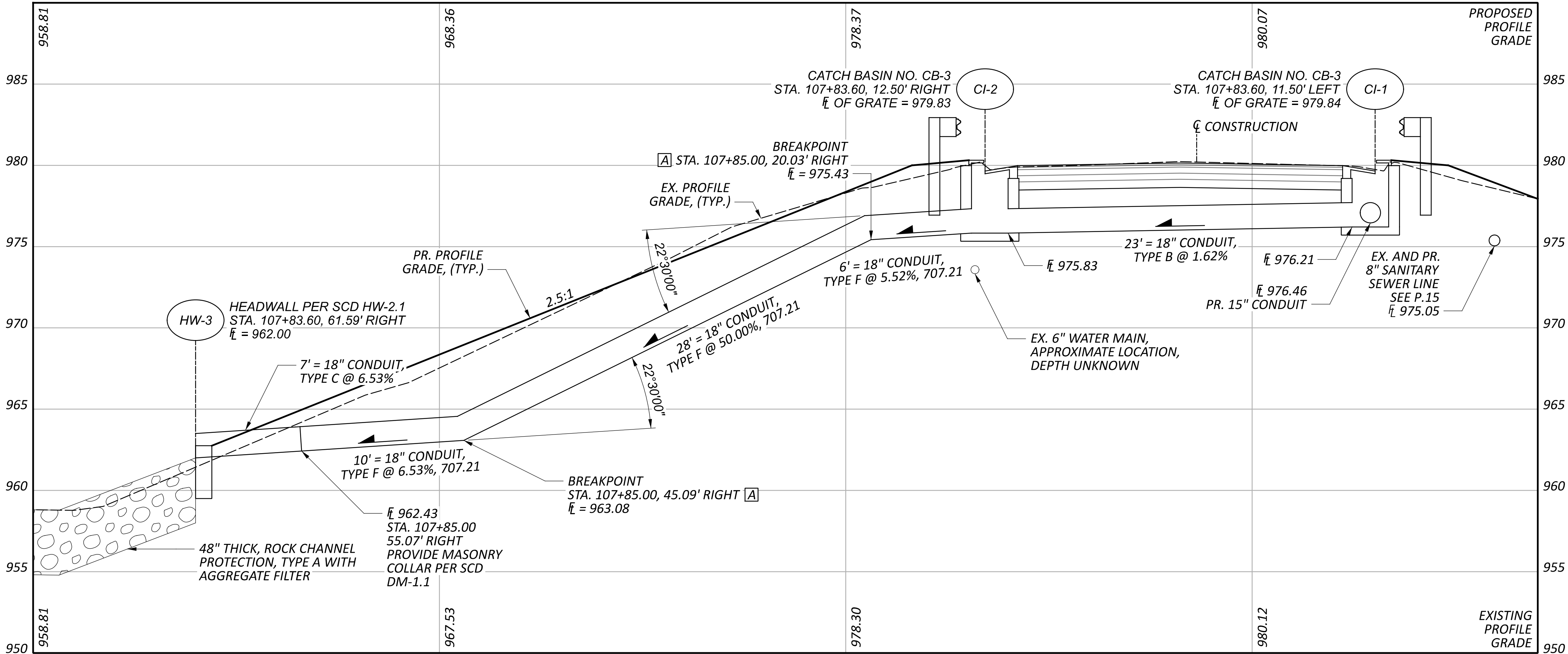
P.10

TOTAL

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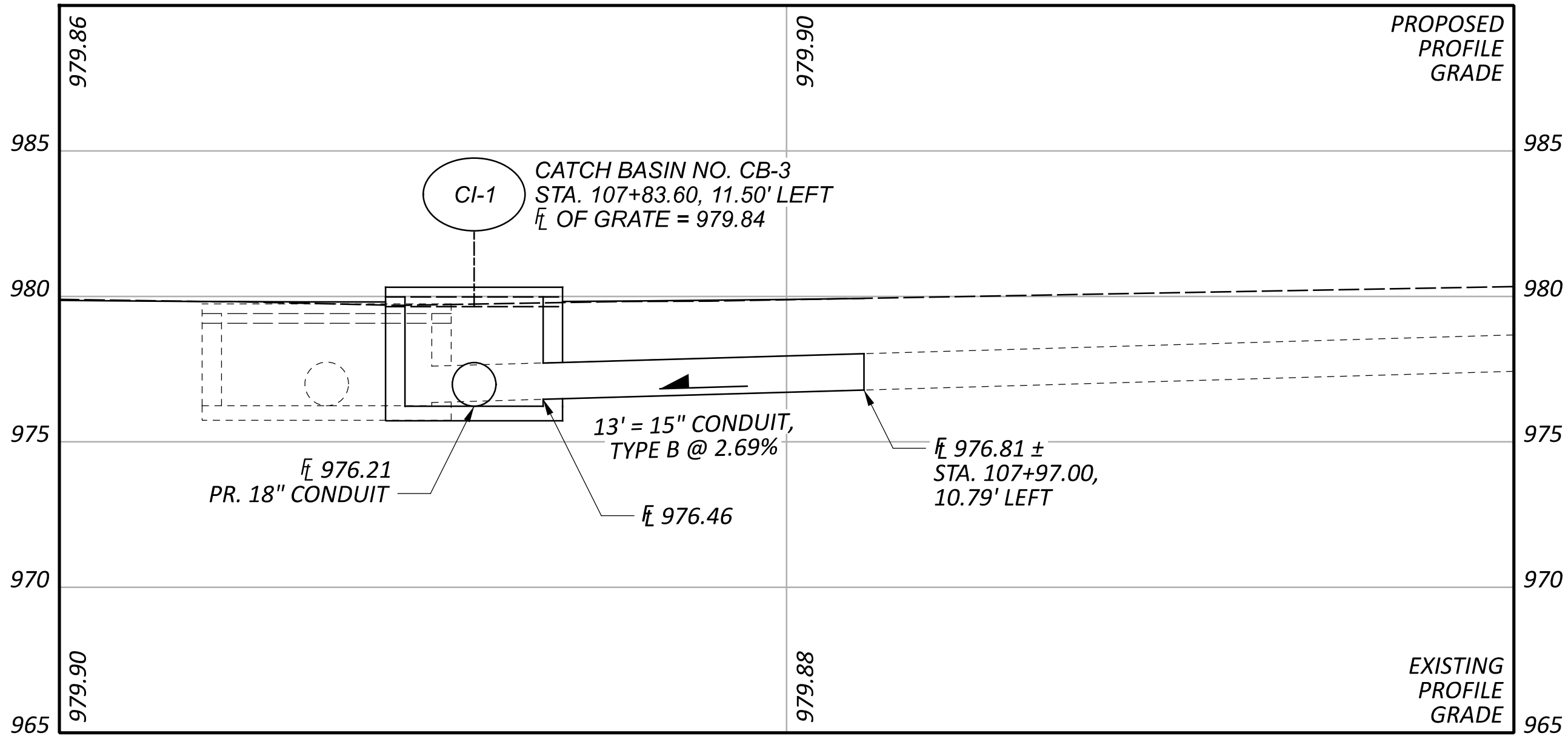
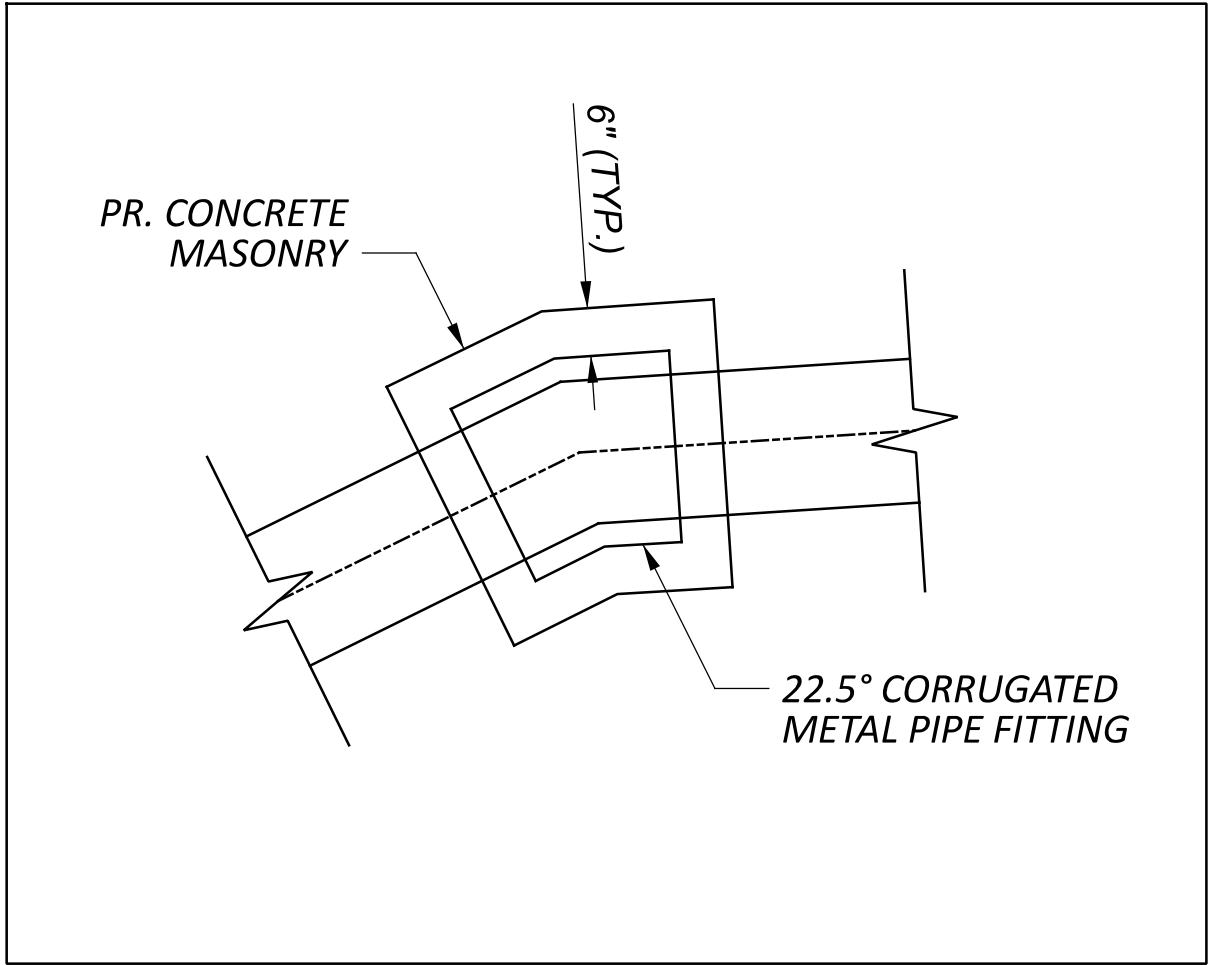
CROSS REFERENCE	
SHEETS	DESCRIPTION
P.07-P.08	PLAN & PROFILE
P.10	CULVERT DETAILS
P.15	SANITARY SEWER PROFILE



PROFILE ALONG $\mathcal{C}$ CONDUIT HW-3 TO CI-1

CODED NOTES

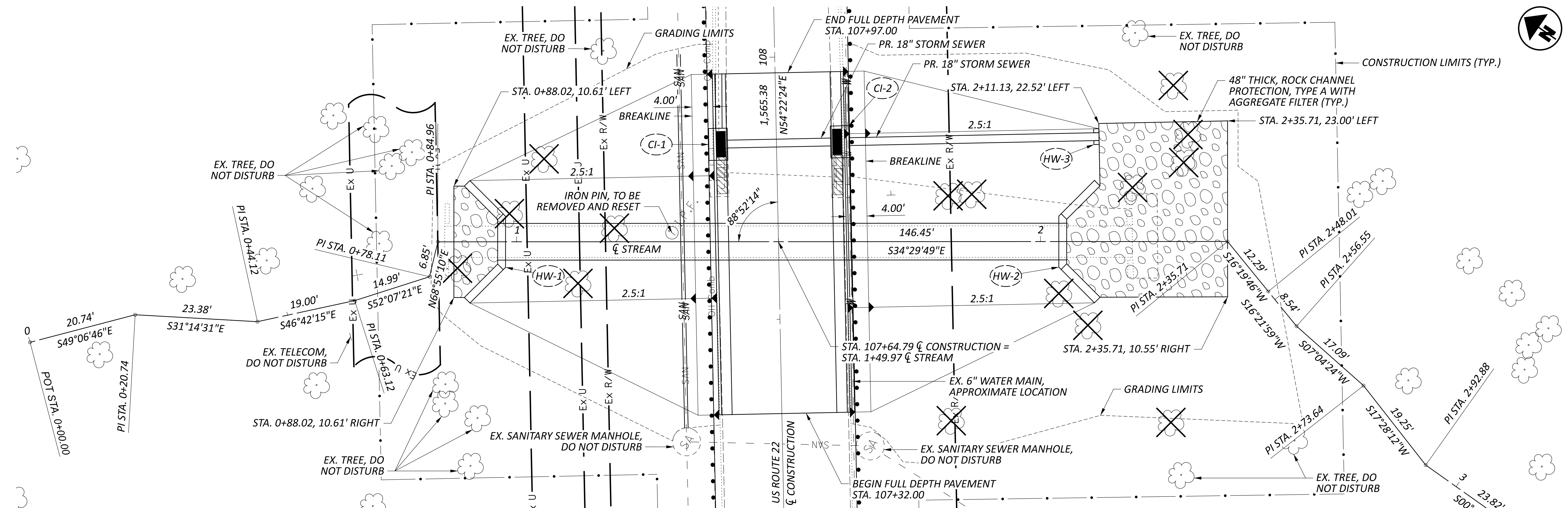
- A ITEM 611, 18" CONDUIT, TYPE F, AS PER PLAN**
PROVIDE CONCRETE MASONRY AS SHOWN BELOW AROUND SPECIFIED PIPE FITTINGS. CONCRETE MASONRY SHALL MEET THE REQUIREMENTS OF ITEM 511 CLASS QC1 CONCRETE AND SHALL BE PAID FOR WITH ITEM 611 - 18" CONDUIT, TYPE F, AS PER PLAN.



PROFILE ALONG $\mathcal{C}$ CONDUIT CI-1 TO EX-1



STORM SEWER PROFILE



NOTE

EXISTING CONDUIT AND HEADWALL AT THE OUTLET HAVE MOVED AFTER THE COMPLETION OF THE TOPOGRAPHIC SURVEY AND CURRENT GROUND CONDITIONS MAY VARY SIGNIFICANTLY FROM WHAT IS PRESENTED IN THIS PLAN SET. CONTRACTOR SHALL VISIT SITE TO EVALUATE EXISTING CONDITIONS.

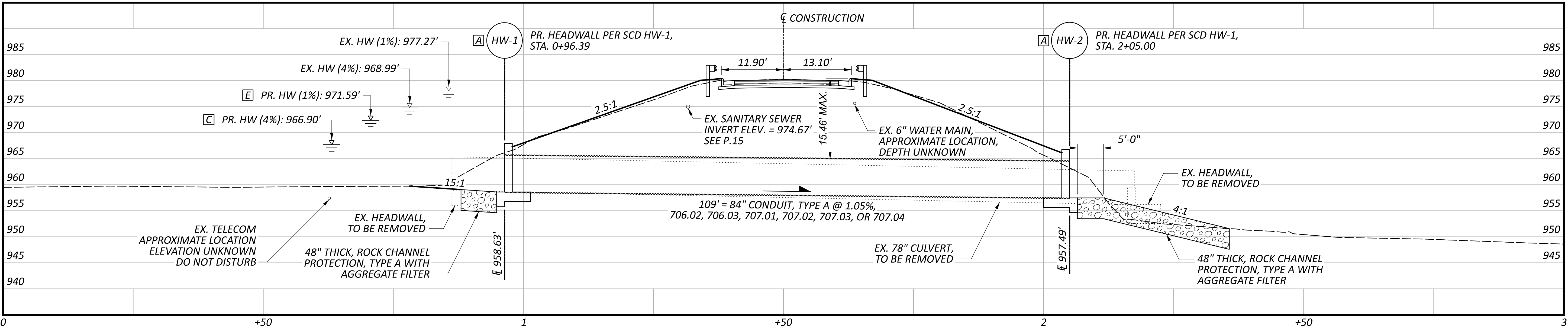
CROSS REFERENCE	
SHEETS	DESCRIPTION
P.07-P.08	PLAN & PROFILE
P.09	STORM SEWER PROFILE
P.15	SANITARY SEWER PROFILE

CODED NOTES

- [A] ELEVATIONS STATED ON CULVERT PROFILE ARE FOR MATERIALS OTHER THAN 706.02 OR 706.03, FOR 706.02 OR 706.03 PROVIDE THE FOLLOWING INLET AND OUTLET ELEVATIONS. INLET ELEVATION: 958.63' OUTLET ELEVATION: 957.81' CULVERT SLOPE: 0.75%
- [B] FOR MATERIALS 706.02 AND 706.03, V (4%): 12.73 FPS
- [C] FOR MATERIALS 706.02 AND 706.03, HW (4%): 967.11'
- [D] FOR MATERIALS 706.02 AND 706.03, V (1%): 16.88 FPS
- [E] FOR MATERIALS 706.02 AND 706.03, HW (1%): 972.89'

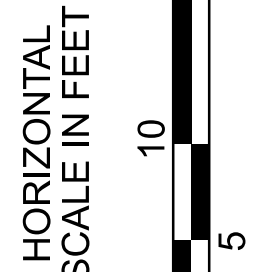
PLAN

HYDRAULIC DESIGN DATA	EXISTING STRUCTURE	PROPOSED STRUCTURE
DRAINAGE AREA: 416 ACRES Q (4%): 366 CFS V (4%): 11.03 FPS [B] HW (4%): 966.90' [C] Q (1%): 563 CFS V (1%): 15.77 FPS [D] HW (1%): 971.59' [E]	TYPE: 131"± - 78" CORRUGATED METAL PIPE SKEW: 1°07'46" ALIGNMENT: TANGENT DATE BUILT: UNKNOWN CFN: 1825669	TYPE: 108.61' - 84" CONDUIT, TYPE A, 706.02, 706.03, 707.01, 707.02, 707.03, OR 707.04 SKEW: 1°07'46" ALIGNMENT: TANGENT DESIGN LIFE: 75 YEARS PH: UNKNOWN (5.5 ASSUMED) ABRASIVE: 3.0



PROFILE ALONG CULVERT

CULVERT DETAILS



DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

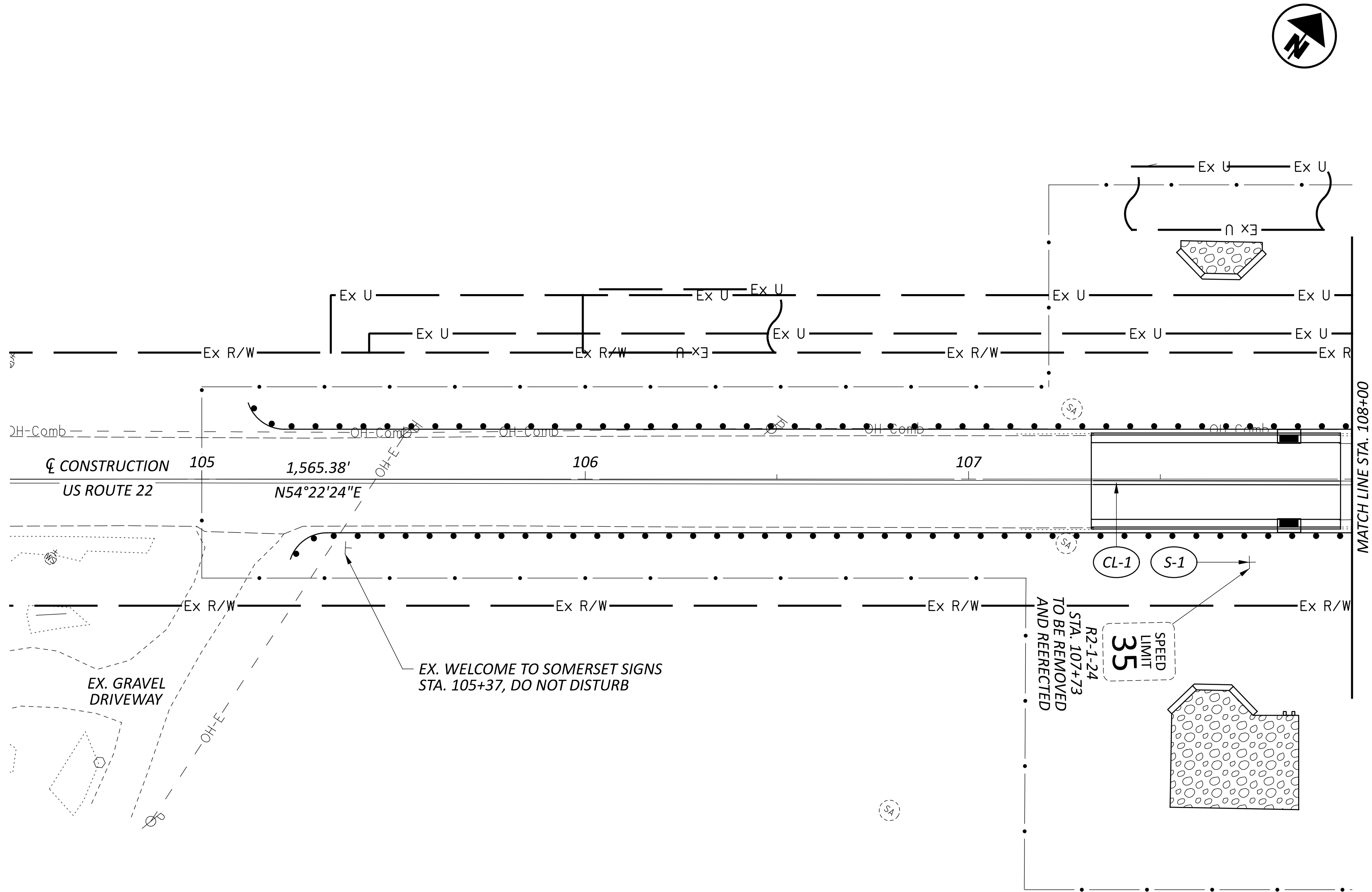
124377

SHEET

P.12

TOTAL

15



PLAN

TRAFFIC CONTROL PLAN
STATION 104+50 TO STATION 108+00

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

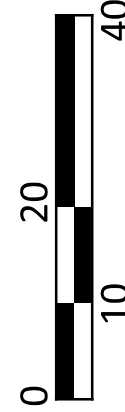
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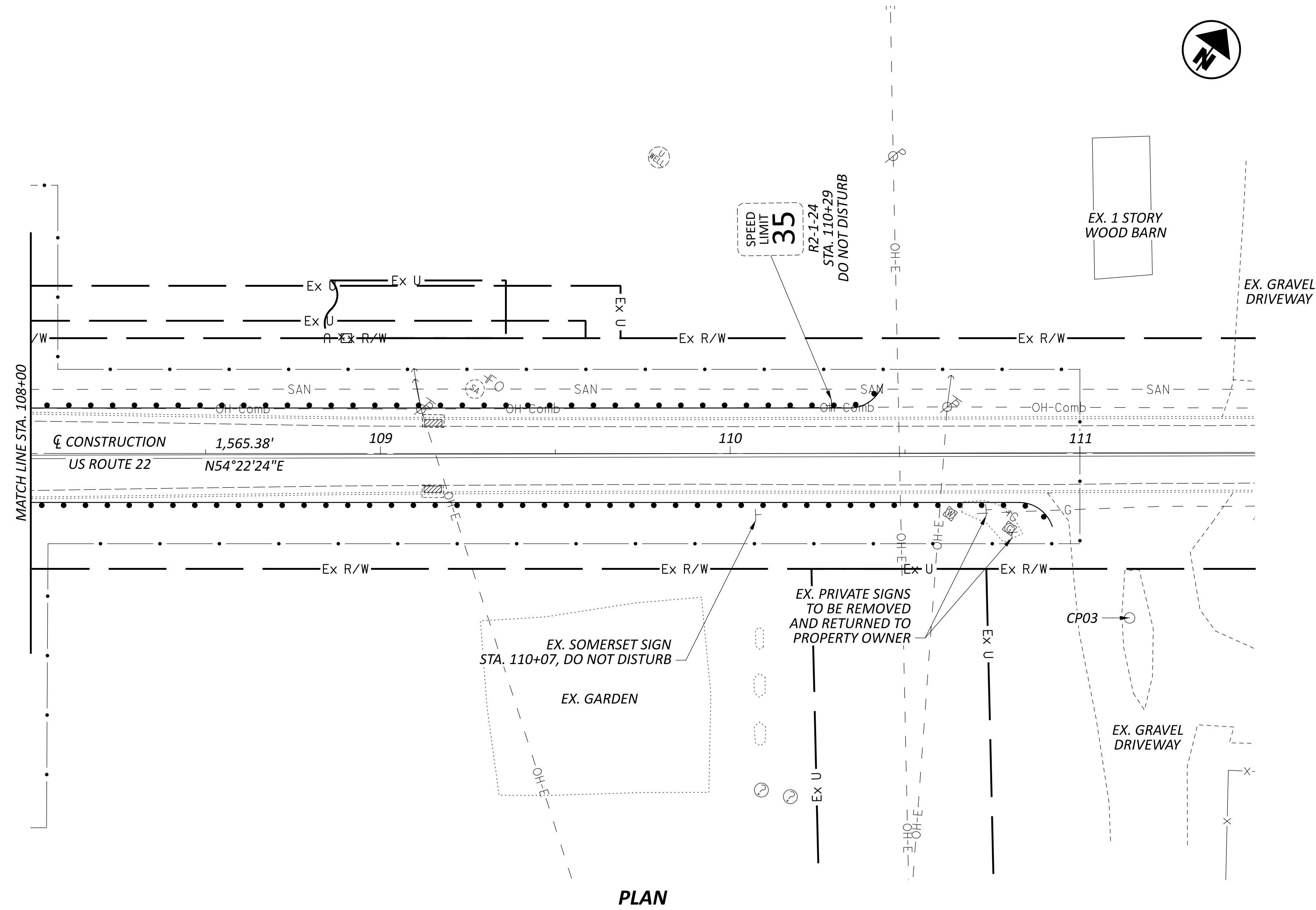
P.13

TOTAL

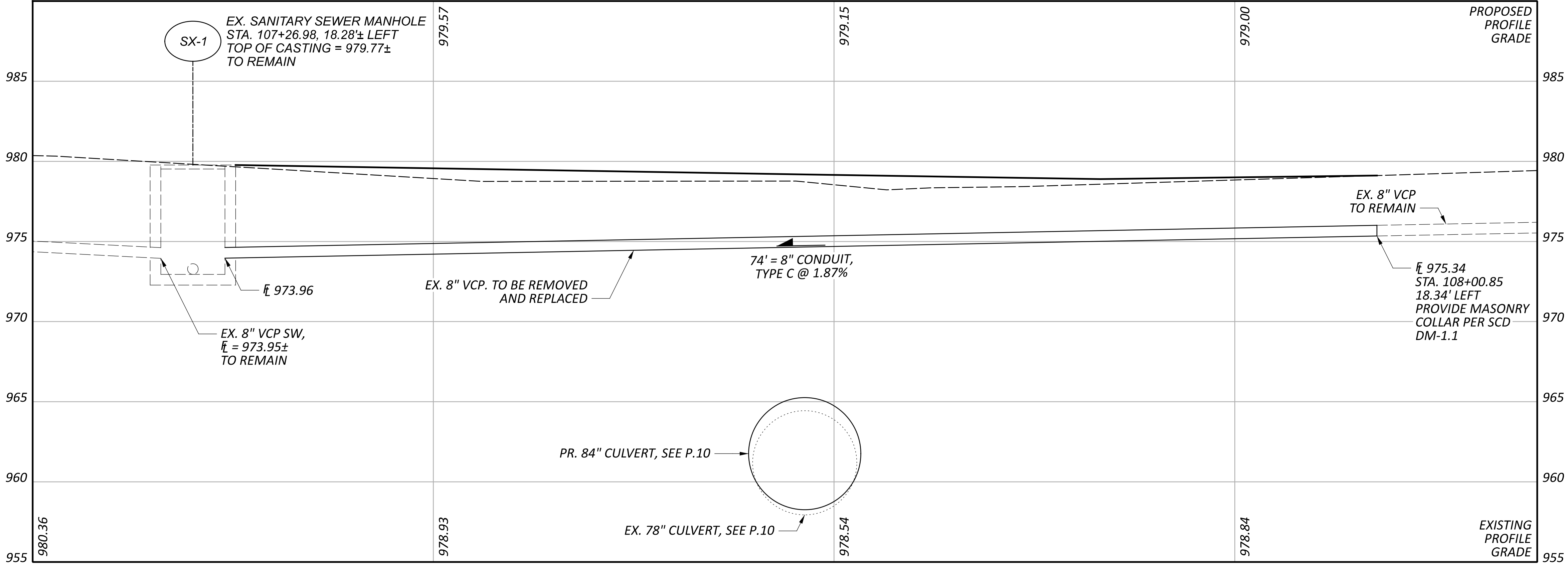
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HORIZONTAL
SCALE IN FEET





CROSS REFERENCE	
SHEETS	DESCRIPTION
P.07-P.08	PLAN & PROFILE
P.09	STORM SEWER PROFILE
P.10	CULVERT DETAILS



PROFILE ALONG C CONDUIT SS-1



SANITARY SEWER PROFILE

DESIGN AGENCY



DESIGNER

JRS

REVIEWER

JTH 09-16-26

PROJECT ID

124377

SHEET TOTAL

P.15 15