

ROADWAY IMPROVEMENTS LOVE'S TRAVEL STOPS BEL-149-23.44

UNION TOWNSHIP BELMONT COUNTY, OH

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PROJECT DESCRIPTION

CONSTRUCTION TO WIDEN EAST AND WEST SIDE OF S.R. 149 TO PROVIDE 175' NB LEFT TURN LANE INTO LOVE'S DRIVEWAY, 175' SB RIGHT-TURN LANE INTO LOVE'S DRIVEWAY, 164' TWLTL BETWEEN SOUTH PILOT DRIVEWAY & NORTH PILOT DRIVEWAY, 125' NB LEFT TURN LANE INTO RECO DRIVE, 200' SB RIGHT TURN LANE INTO RECO DRIVE AND ASSOCIATED LANE RECONFIGURATION TO ACCOMMODATE AFOREMENTIONED IMPROVEMENTS. CONSTRUCTION TO WIDEN RECO DRIVE AND INSTALLATION OF TRAFFIC SIGNAL AT S.R. 149 & RECO DRIVE INTERSECTION. DITCH AND SLOPE GRADING AND INSTALLATION OF NECESSARY TRAFFIC CONTROL DEVICES. STORMWATER STRUCTURE AND CONDUIT MODIFICATIONS BETWEEN SOUTH MARATHON DRIVEWAY AND NORTH MARATHON DRIVEWAY.

EARTH DISTURBED AREAS AND TOTAL AREA OF PROJECT

TOTAL AREA OF PROJECT: 1.95 ACRES.
PROJECT EARTH DISTURBING ACTIVITIES AREA: 1.65 ACRES
CONTRACTOR EARTH DISTURBING ACTIVITIES AREA: 0.30 ACRES
NOI EARTH DISTURBING ACTIVITIES AREA: 1.95 ACRES

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____

DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____

DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

RAILROAD INVOLVEMENT
NONE

FEDERAL PROJECT NUMBER
NON-FEDERAL

PLAN PREPARED BY:



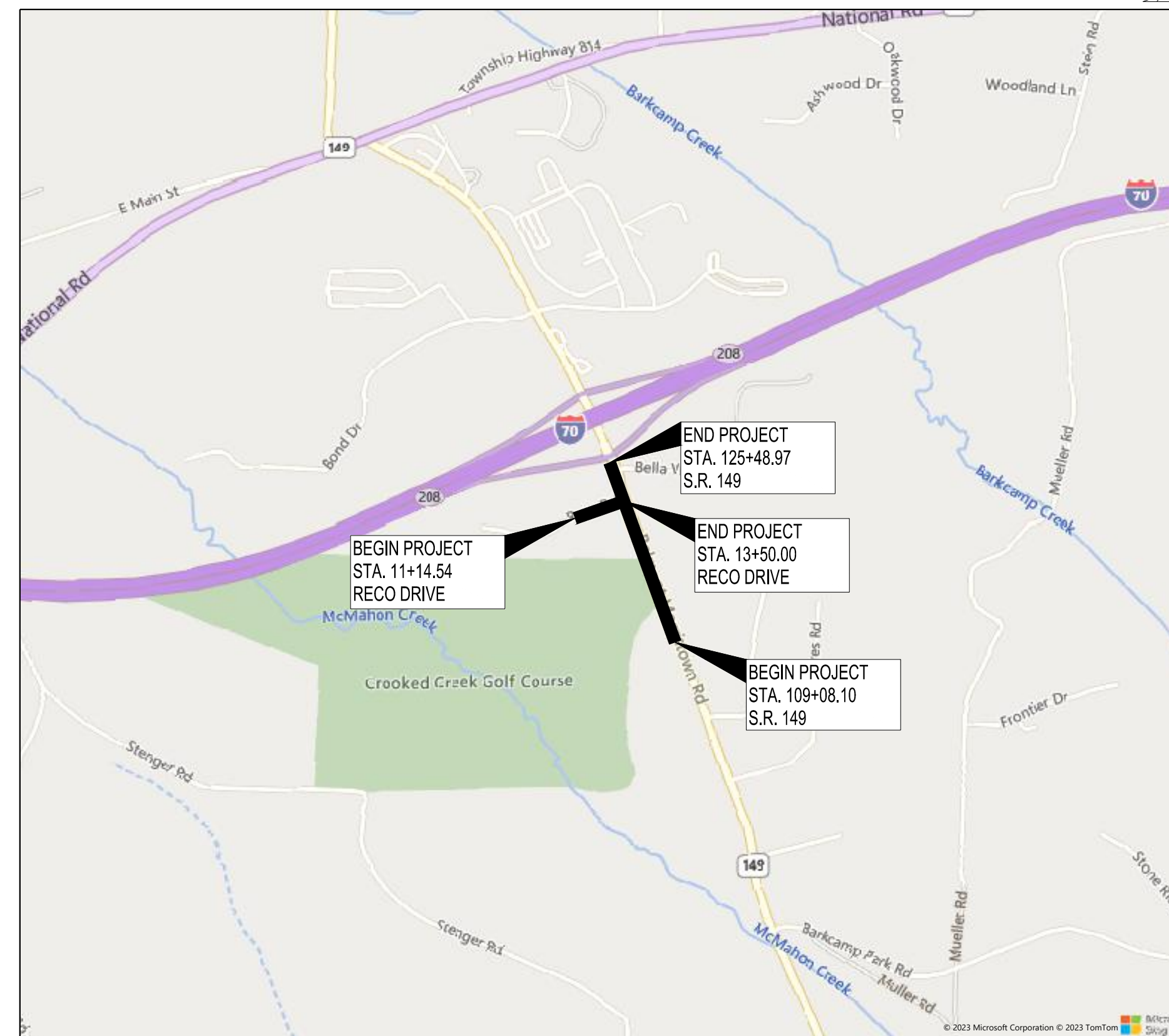
WWW.CESOINC.COM

3601 RIGBY ROAD, SUITE 300
MIAMISBURG, OHIO 45342
PH (937) 435-8584 | FAX (937) 435-3307

ENGINEER'S STAMP

SIGNED: _____

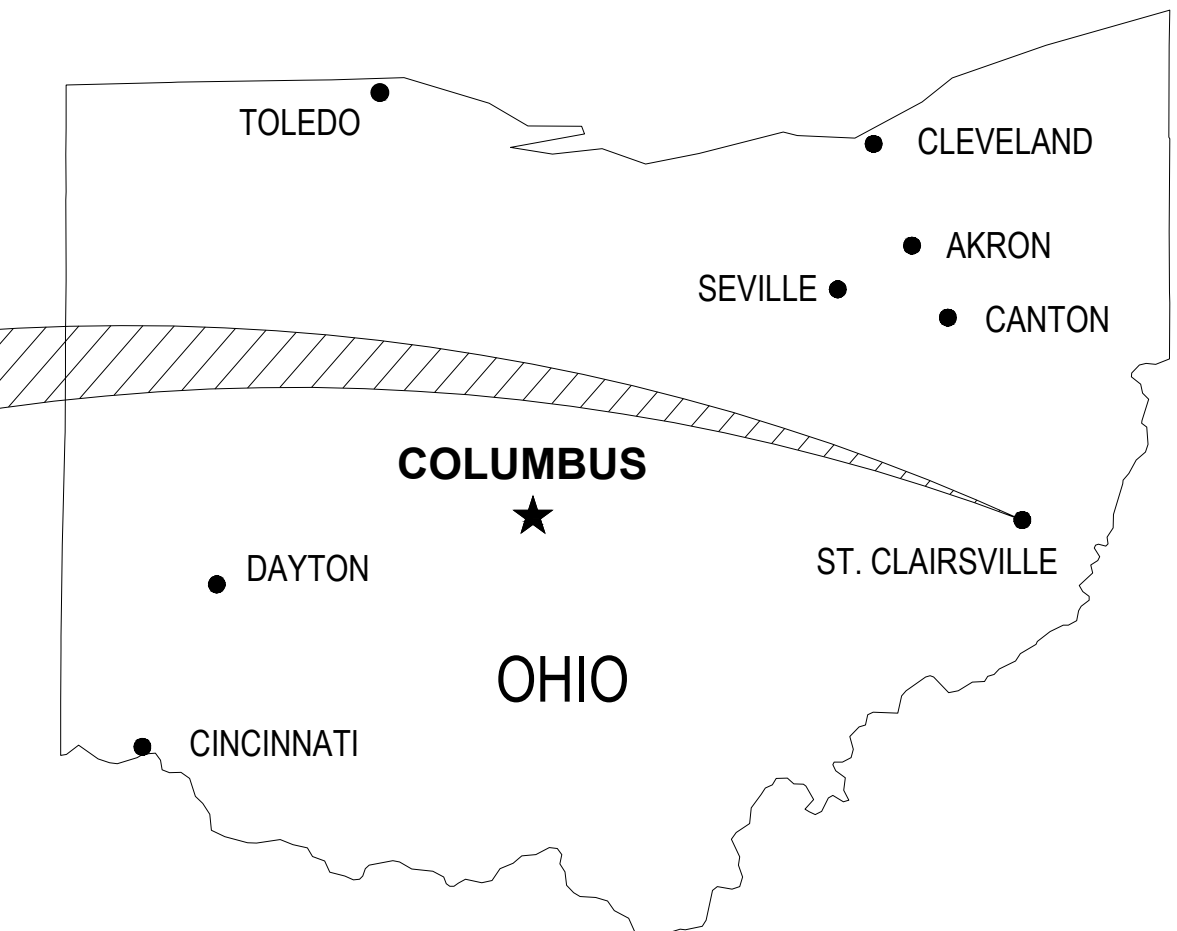
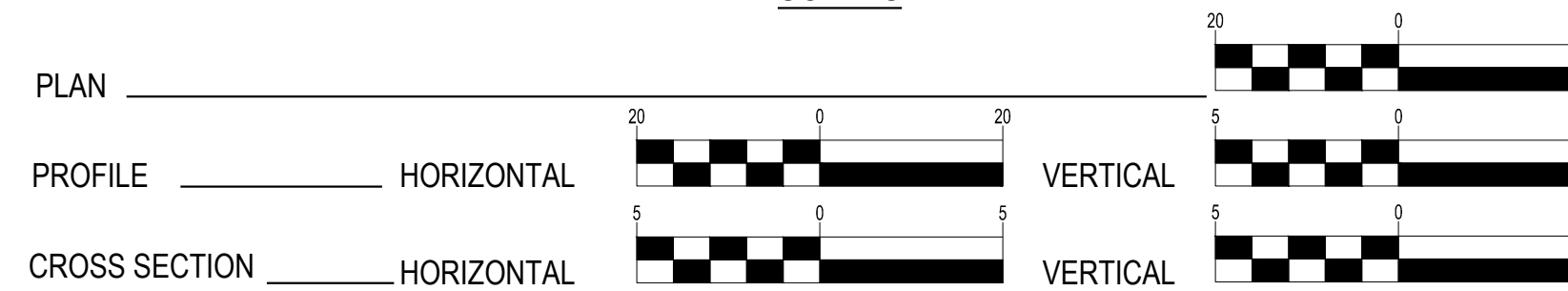
DATE: _____



LOCATION MAP
NOT TO SCALE

PROJECT LOCATED ALONG S.R. 149 - BELMONT MORRISTOWN ROAD, 1.29 MILES SOUTHEAST OF MORRISTOWN, OHIO AND SOUTH OF THE THE S.R. 149 AND I-70 INTERCHANGE. APPROXIMATELY 8.00 MILES WEST OF CLAIRSVILLE, OHIO

SCALES



STATE LOCATION MAP
NOT TO SCALE

SITE LOCATION

LAT = N 40° 03' 27"
LONG = W 81° 03' 09"

DESIGN DESIGNATION - STATE ROUTE 149 (BELMONT MORRISTOWN ROAD):

AADT (2024)	10,000
DESIGN YEAR AADT (2044)	14,500
DESIGN HOURLY VOLUME (2044)	1,300
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	21%
DESIGN SPEED	50 MPH
LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION	5 - RURAL MAJOR COLLECTOR
NHS PROJECT	NO

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		REVISIONS				
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION		
ODOT HW-2.2	7/20/2018		ODOT DM-1.1	7/17/2020		ODOT MT-95.31	7/19/2019		ODOT TC-41.41	7/19/2019		SS 800	1/19/2024	PD	11/8/2023	ODOT COMMENTS #1
			ODOT DM-1.2	7/16/2021		ODOT MT-97.11	1/20/2017		ODOT TC-42.20	10/18/2013		SS 832	7/21/2023	PD	1/2/2024	ODOT COMMENTS #2
ODOT CB-3A	7/16/2021		ODOT DM-4.3	1/15/2016		ODOT MT-99.20	7/19/2019		ODOT TC-52.10	10/18/2013		SS 863	7/21/2023	PD	1/3/2024	REV 1
			ODOT DM-4.4	1/15/2016		ODOT MT-101.90	7/17/2020		ODOT TC-52.20	1/15/2021		SS 809	1/19/2024	PD	2/9/2024	ADDENDUM #3
ODOT BP-3.1	1/21/2022					ODOT MT-120.00	1/19/2024		ODOT TC-61.30	7/19/2019				PD	2/23/2024	ODOT COMMENTS #3
ODOT BP-4.1	7/19/2013		ODOT MGS-1.1	7/16/2021										PD	2/23/2024	ADDENDUM #4
ODOT BP-5.1	7/15/2022		ODOT MGS-2.1	1/19/2018		ODOT TC-21.21	1/20/2023		ODOT TC-65.10	1/17/2014		SS 825	4/21/2023	PD	2/23/2024	ODOT COMMENTS #4
			ODOT MGS-2.2	7/19/2013		ODOT TC-41.20	10/18/2013		ODOT TC-65.11	7/15/2022		SS 909	1/19/2024	PD	4/29/2024	ODOT COMMENTS #4
						ODOT TC-41.30	4/21/2023		ODOT TC-71.10	4/21/2023						

DATE 4-29-2024
ISSUE AGENCY REVIEW
CALCULATED P.I.D. CHECKED TDH
TITLE SHEET S.R. 149
BEL-149-23.44
R1 R31

BENCHMARKS	
BM #A	*"X" CHISELED IN THE SOUTH SIDE OF RIM OF SANITARY MANHOLE ON NORTH SIDE OF RECO DRIVE, EAST OF ADDRESS 41245 RECO DRIVE ELEV=1239.44'
BM #B	EAST BOLT ON HYDRANT ON SOUTH SIDE OF RECO DRIVE, ACROSS FROM ADDRESS 41371 RECO DRIVE ELEV=1207.05'
BM #C	SOUTHWEST BOLT ON HYDRANT ON EAST SIDE OF BELMONT MORRISTOWN ROAD AT ADDRESS 66377 BELMONT MORRISTOWN ROAD ELEV=1193.84'

BENCHMARK NOTES:
 BM "A" AND BM "B" LOCATED OUTSIDE OF PROJECT VIEWPORT LIMITS. REFER TO ORIGINAL SURVEY CONDUCTED BY CESO, INC. DATED APRIL 12, 2023 FOR MARKED LOCATION OF BENCHMARKS.

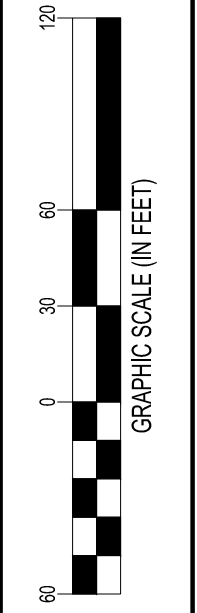
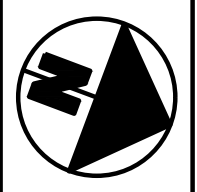
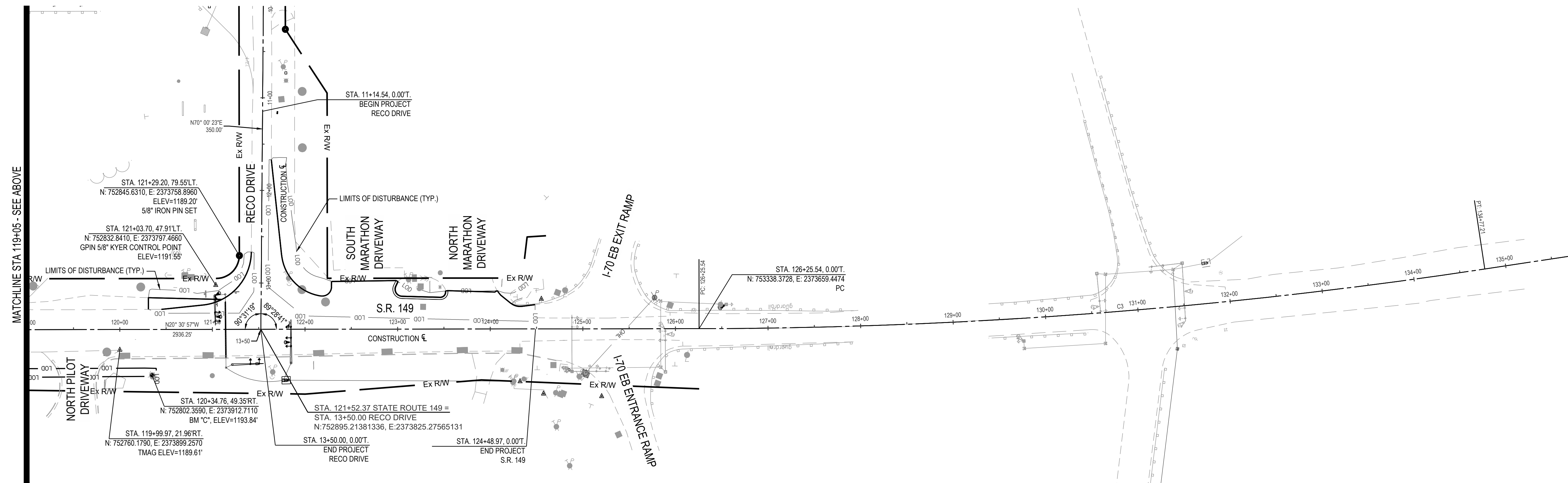
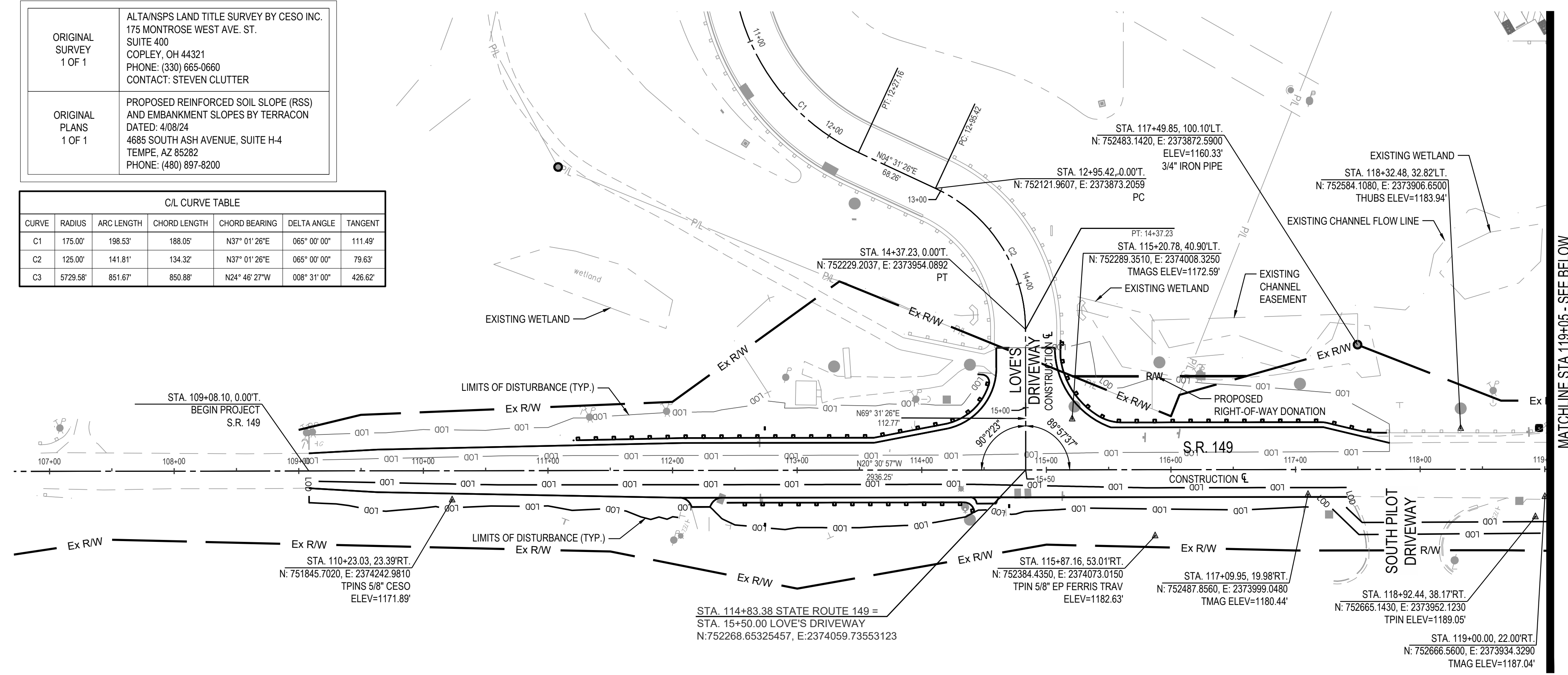
DATUM NOTES:
HORIZONTAL DATUM:
 OHIO STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE, NAD83 (2011) AS DETERMINED BY OPUS POST PROCESSED STATIC SESSION.
VERTICAL DATUM:
 NAVD 88 AS DETERMINED BY OPUS POST PROCESSED STATIC SESSIONS USING GEOID 18 (CONUS)
UTILITY DISCLAIMER:
 THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION OUPS #A218001060 AND/OR EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES LOCATED HERE ON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
 DATE OF FIELD SURVEY: AUGUST 9, 2022
 DATE OF SURVEY MAP: APRIL 12, 2023

LANDSCAPE NOTE:
 THERE ARE NO EXISTING LANDSCAPED AREAS WITHIN THE WORK LIMITS.

REFERENCE DRAWINGS:

ORIGINAL SURVEY 1 OF 1	ALTA/SPS LAND TITLE SURVEY BY CESO INC. 175 MONTROSE WEST AVE. ST. SUITE 400 COPLE, OH 44321 PHONE: (330) 665-0660 CONTACT: STEVEN CLUTTER
ORIGINAL PLANS 1 OF 1	PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES BY TERRACON DATED: 4/08/24 4685 SOUTH ASH AVENUE, SUITE H-4 TEMPE, AZ 85282 PHONE: (480) 897-8200

C/L CURVE TABLE						
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE	TANGENT
C1	175.00'	198.53'	188.05'	N37° 01' 26"E	065° 00' 00"	111.49'
C2	125.00'	141.81'	134.32'	N37° 01' 26"E	065° 00' 00"	79.63'
C3	5729.58'	851.67'	850.88'	N24° 46' 27"W	008° 31' 00"	426.62'



CALCULATED
 P.I.D.
 CHECKED
 TDH

SCHEMATIC PLAN
S.R. 149

BEL-149-23.44

R2
 R31

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SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS

THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, 2023 CONSTRUCTION AND MATERIALS SPECIFICATIONS, AND THE NOTED STANDARD CONSTRUCTION DRAWINGS SHALL GOVERN THIS IMPROVEMENT. WHEREVER THE WORD "STATE" OCCURS, IT IS TO MEAN THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT).

WHENEVER THE WORD "ENGINEER" OR "DEPARTMENT" IS USED HEREIN, IT SHALL BE HELD TO MEAN THE ODOT PROJECT ENGINEER, OR DULY AUTHORIZED AUTHORITY.

EXISTING SURVEY MONUMENTS
EXISTING SURVEY MONUMENTS, INCLUDING BUT NOT LIMITED TO PROPERTY CORNERS, CENTERLINE MONUMENTS, RIGHT-OF-WAY MONUMENTS, ETC., MAY POTENTIALLY BE DISTURBED OR DESTROYED BY CONSTRUCTION OF THESE ROADWAY IMPROVEMENTS. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL SURVEYOR, LICENSED IN THE STATE OF OHIO, TO IDENTIFY MONUMENTS THAT MAY BE DISTURBED AND TO PROPERLY REPLACE DISTURBED MONUMENTS IN-KIND AFTER CONSTRUCTION IS COMPLETE.

PERMITS FEES AND NOTICES
THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF THE WORK BY LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

MATERIALS AND WORKMANSHIP
UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF THE FIRST QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND WORKMANSHIP. ALL ITEMS OF EQUIPMENT AND/OR MATERIALS PROPOSED FOR SUBSTITUTION MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR BE SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRED ENGINEERING REVISIONS, THE EXPENSE OF SUCH REVISIONS SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

EXISTING FACILITIES
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

EXAMINATION OF THE SITE
THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

WORK LIMITS
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

RELOCATION OF UTILITIES
ALL UTILITIES WHICH ARE SHOWN OR LOCATED DURING THE COURSE OF CONSTRUCTION THAT ARE FOUND TO BE IN CONFLICT WITH THESE PLANS ARE TO BE RELOCATED OR ADJUSTED BY THE OWNER OF THE UTILITY.

UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN AREAS OBTAINED FROM THE OWNERS OF THE UTILITIES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES LOCATED HEREON COMPROMISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE/SHE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

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

ITEM 659, TOPSOIL	661 CU.YD
ITEM 659, SEEDING AND MULCHING	3,965 SQ. YD.
ITEM 659, COMMERCIAL FERTILIZER	0.54 TON
ITEM 659, LIME	0.82 ACRES
ITEM 659, WATER	10.7 M.GAL

APPLY SEEDING AND MULCHING 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 659 SEEDING AND MULCHING
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 ITEM 659, SEEDING AND MULCHING, ARE BASED ON THESE LIMITS.

WEATHER CONDITIONS
NO CONSTRUCTION SHALL BE DONE DURING STORMY, FREEZING OR INCLEMENT WEATHER UNLESS PERMISSION IS GIVEN BY THE ENGINEER WHENEVER WORK PROCEEDS DURING SUCH WEATHER, THE CONTRACTOR SHALL PROVIDE APPROVED FACILITIES, INCLUDING HEAT (IF REQUIRED), FOR THE PROTECTION OF ALL MATERIALS AND FINISHED WORK.

AGENCY NOTIFICATIONS
CONTRACTOR TO NOTIFY LOCAL EMERGENCY SERVICE PROVIDERS, UNITED STATES POSTAL SERVICE, LOCAL SCHOOL DISTRICTS PRIOR TO START OF CONSTRUCTION.

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.

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

COOPERATION WITH UTILITY COMPANIES
WHILE THE WORK OF THIS CONTRACT IS BEING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND RESETING EXISTING FACILITIES. THE CONTRACTOR SHALL FULLY COOPERATE WITH UTILITY COMPANIES SO THAT THE ENTIRE WORK IS COMPLETED IN A MANNER CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. THE CONTRACTOR, UTILITIES, AND ENGINEER SHALL DISCUSS THE NECESSARY CONSTRUCTION SCHEDULES TO COMPLETE THE PROJECT.

CROSSINGS TO EXISTING PIPES AND UTILITIES
WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO 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 THE PROPOSED CONDUIT.

UTILITY COORDINATION
THE FOLLOWING IS A LIST OF THE KNOWN EXISTING UTILITIES IN THE PROJECT AREA ALONG WITH THE RESPECTIVE OWNERS. THE LIST IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS IN THE PROJECT AREA PRIOR TO START OF CONSTRUCTION WHETHER LISTED ON THIS PAGE OR NOT.

SANITARY SEWER BELMONT COUNTY WATER & SEWER DISTRICT 67711 OAK VIEW DRIVE ST. CLAIRSVILLE, OH 43950 PH: (740) 695-3144 CONTACT: JEANNE KINNEY	EROSION CONTROL OEPA - SEDO 2195 EAST FRONT STREET LOGAN, OH 43138 PH: (740) 385-8501	ELECTRIC AMERICAN ELECTRIC POWER (AEP) 47687 NATIONAL RD. W ST. CLAIRSVILLE, OH 43950 PH: (740) 238-3630 CONTACT: BRENT PANEUCCI
FIRE LAFFERTY VOLUNTEER FIRE DEPARTMENT 70191 IRWIN ROAD LAFFERTY, OH 43951 PH: (740) 310-0901 CONTACT: DUSTIN HUDAK	ROADWAY STATE DOT: ODOT DISTRICT 11 41061 BOND DR. BELMONT, OH 43718 PH: (330) 308-6510 CONTACT: DAVID SCHAFFER	GAS COLUMBIA GAS 290 W NATIONWIDE BLVD COLUMBUS, OH 43215 PH: (614) 460-8928 CONTACT: DAVID BASSITT
WATER BELMONT COUNTY WATER & SEWER DISTRICT 67711 OAK VIEW DRIVE ST. CLAIRSVILLE, OH 43950 PH: (740) 695-3144 CONTACT: JEANNE KINNEY	LOCAL DOT: UNION TOWNSHIP PH: (740) 782-1337 CONTACT: JUSTIN DEMARCHI	STORM SEWER STATE DOT: ODOT DISTRICT 11 41061 BOND DR. BELMONT, OH 43718 PH: (330) 308-6510 CONTACT: DAVID SCHAFFER
OWNER/DEVELOPER LOVE'S TRAVEL STOPS & COUNTRY STORES, INC. 10601 N. PENNSYLVANIA AVE. OKLAHOMA CITY, OK 73120 CONTACT: RICK SHUFFIELD PH: (405) 302-6646 EMAIL: RICK.SHUFFIELD@LOVES.COM	COMMUNICATION COMCAST PH: (412) 337-1049 CONTACT: ANGELA MEYERS	ENGINEER CESO, INC. 175 MONTROSE WEST AVE. SUITE 400 AKRON, OH 44321 CONTACT: KIMBERLY COOPER, P.E. PH: (330) 396-5682 EMAIL: COOPER@CESOINC.COM

UTILITIES NOTIFICATION
AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL CONTACT OHIO811 OUPS AT 8-1-1 OR 1-800-362-2764 (OHIO811.ORG), THE ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLAN. THE OWNER OF THE UNDERGROUND FACILITY SHALL, WITHIN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS), MARK THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE AND THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

TEMPORARY TRAFFIC CONTROL
IT IS ESSENTIAL THAT THE ENGINEER HAVE THE AUTHORITY TO CONTROL THE PROGRESS OF THE WORK ON THE PROJECT IN ITS RELATION TO OBTAINING SAFE CONDITIONS. THIS INCLUDES THE AUTHORITY TO MODIFY CONDITIONS OR HALT WORK UNTIL APPLICABLE OR REMEDIAL SAFETY MEASURES ARE TAKEN. THE CONTRACTOR IS TO SUPPLY ALL TRAFFIC CONTROL, AS THE ENGINEER DEEMS NECESSARY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH SECTION 614 OF THE ODOT STANDARD SPECIFICATIONS AND OTHER APPLICABLE PORTIONS OF THE ODOT SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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 BIG FOR ITEM 201, CLEARING AND GRUBBING.

SURVEY DATA
PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET R2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:
BASIS OF BEARINGS: BEARINGS ARE BASED UPON OHIO STATE PLANE SOUTH ZONE

PROJECT CONTROL	HORIZONTAL POSITIONING
POSITIONING METHOD: ODOT REAL TIME NETWORK	REFERENCE FRAME: NAD83 (2011)
MONUMENT TYPE: TYPE 'B'	ELLIPSOID: GRS 80
VERTICAL POSITIONING	COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE
ORTHOMETRIC HEIGHT DATUM: NAVD88	PROJECTION: LAMBERT CONFORMAL CONIC
GEOID: 18B	CENTRAL LATITUDE: N 40° 03' 28"
	CENTRAL LONGITUDE: W 81° 03' 06"
	PROJECTION SCALE FACTOR: 1.00000000

USE THE POSITIONING METHODS AND PRIMARY 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. USE THE FOLLOWING CONVERSION FACTOR: 1 METER=3.2808333333 U.S. SURVEY FEET

ITEM SPECIAL - MAILBOX SUPPORT
THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER. WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181. ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL. POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST. THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION. IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION. PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS, TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY. MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

RESTORATION
THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF THE FOLLOWING:

EXISTING STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, RE-SEEDING/RE-SODDING, REMOVAL OF TREES, RESTORATION OF AGRICULTURAL LAND, THE MAINTENANCE OF THE CONSTRUCTION AREA DURING PROGRESS OF THE WORK AND THE COMPLETE RESTORATION OF THE CONSTRUCTION AREA TO ITS ORIGINAL CONDITION AT THE COMPLETION OF THE WORK. THE CONTRACTOR SHALL CONTINUOUSLY CARRY ON WITH THE FINAL RESTORATION OF THE CONSTRUCTION AREA AFTER THE BACKFILLING IS COMPLETED, AND HE SHALL PROCEED TO RESTORE TO ITS ORIGINAL CONDITION ALL STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, STRUCTURES, AND ALL AREAS THAT WERE DAMAGED, DISTURBED, OR OCCUPIED BY THE CONTRACTOR IN CONNECTION WITH ANY PHASE OF THE WORK.

PAVEMENTS, PAVEMENT MARKINGS, TREES, SHRUBS, FENCES, POLES, OR OTHER PROPERTY AND SURFACE STRUCTURES WHICH HAVE BEEN DAMAGED, REMOVED, OR DISTURBED BY THE CONTRACTOR, WHETHER DELIBERATELY OR THROUGH FAILURE TO CARRY OUT THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, STATE LAWS, MUNICIPAL ORDINANCES, THE SPECIFIC DIRECTION OF THE ENGINEER, OR THROUGH FAILURE TO EMPLOY USUAL AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

ALL TEMPORARY SIGNS, SPRINKLER SYSTEMS, LANDSCAPING, ORNAMENTAL FENCING, ETC., LOCATED WITHIN THE PROJECT LIMITS MUST BE REPLACED OR RELOCATED UPON COMPLETION OF THE CONSTRUCTION.

ITEM 832: EROSION CONTROL
ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO: DETAIL PLANS; ACCORDING TO THE LATEST OHIO EPA AUTHORIZATION FOR CONSTRUCTION ACTIVITY UNDER THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES); ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. SEE OHIO EPA PERMIT NO. OHR000006 FOR REGULATIONS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION CONTROL MEASURES THAT ARE USED FOR WATER QUALITY. THE EROSION AND SEDIMENTATION CONTROL FACILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED ADEQUATE BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, DEVIATIONS FROM THIS PLAN MAY BE NECESSARY IN ORDER TO MAINTAIN WATER QUALITY. THE CONTRACTOR SHALL ADHERE TO ODOT'S SUPPLEMENTAL SPECIFICATION 832 FOR EROSION AND SEDIMENTATION CONTROL.

ASPHALT CONCRETE JOINT SEALER
THE CONTRACTOR SHALL APPLY LIQUID ASPHALT CONCRETE (PG64-22) TO THE VERTICAL FACE OF ALL EXISTING ASPHALT PRIOR TO THE PLACEMENT OF THE ADJOINING ASPHALT CONCRETE LIFT. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO EACH RESPECTIVE ASPHALT CONCRETE COURSE OR BASE BEING PLACED.

BENCHING OF FOUNDATION SLOPES
ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

PART-WIDTH CONSTRUCTION
BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL
WHEN IT IS NECESSARY TO SPlice PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E
THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191. REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DATUM NOTES:	
HORIZONTAL DATUM: OHIO STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE, NAD83 (2011) AS DETERMINED BY OPUS POST PROCESSED STATIC SESSION.	
VERTICAL DATUM: NAVD 88 AS DETERMINED BY OPUS POST PROCESSED STATIC SESSIONS USING GEOID 18 (CONUS)	
UTILITY DISCLAIMER: THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION OUPS #A218001060 AND/OR EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES LOCATED HERE ON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.	
DATE OF FIELD SURVEY: AUGUST 9, 2022 DATE OF SURVEY MAP: APRIL 12, 2023	

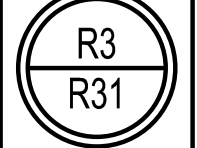
REFERENCE DRAWINGS:	
ORIGINAL SURVEY 1 OF 1	ALTANSPS LAND TITLE SURVEY BY CESO INC. 175 MONTROSE WEST AVE. ST. SUITE 400 COPELY, OH 44321 PHONE: (330) 665-0660 CONTACT: STEVEN CLUTTER
ORIGINAL PLANS 1 OF 1	PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES BY TERRACON DATED: 4/08/24 4685 SOUTH ASH AVENUE, SUITE H-4 TEMPE, AZ 85282 PHONE: (480) 897-8200
ODOT ITEM 408 - PRIME COAT, AS PER PLAN	
THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.	

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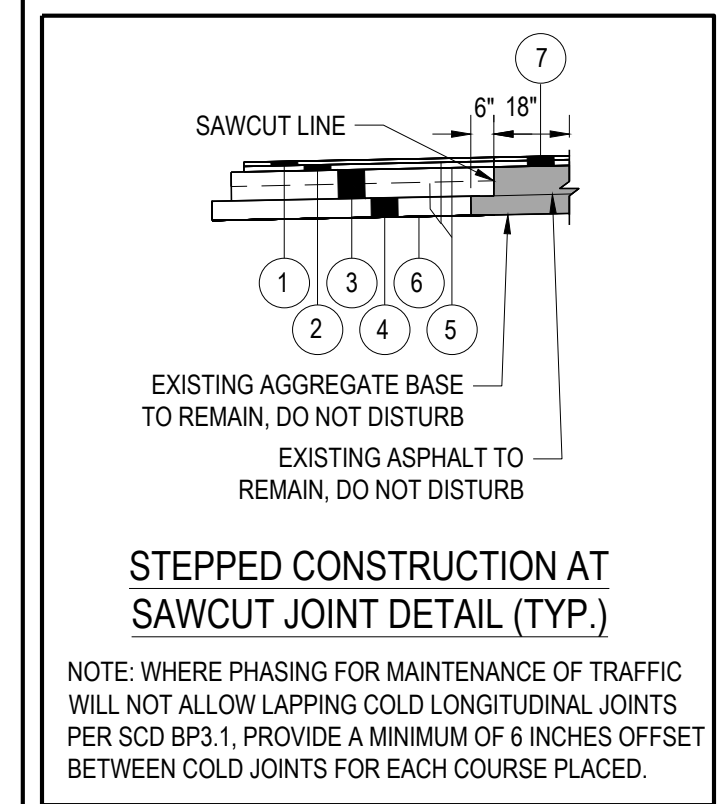
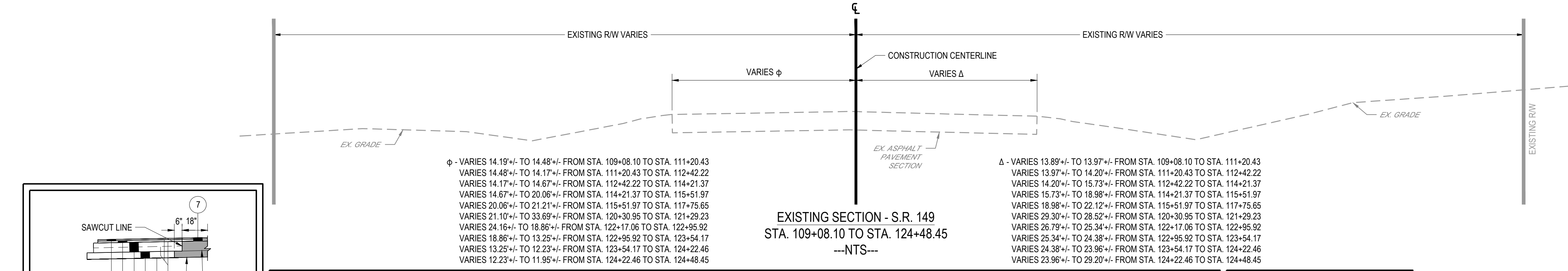
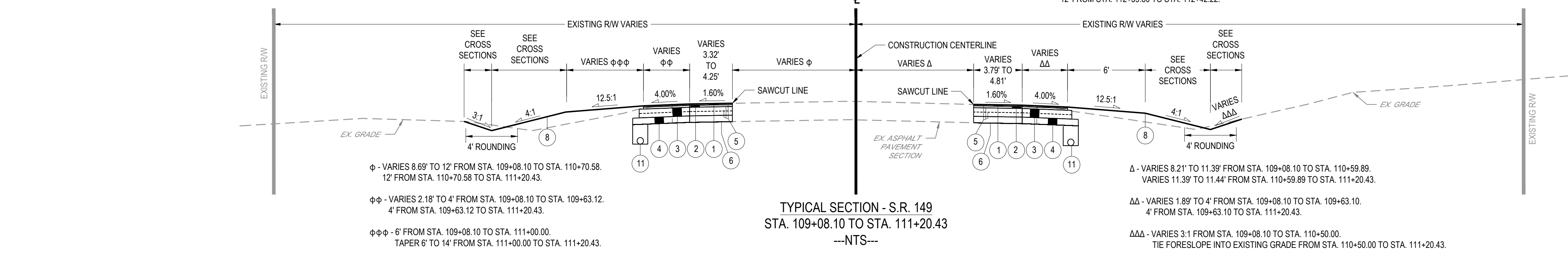
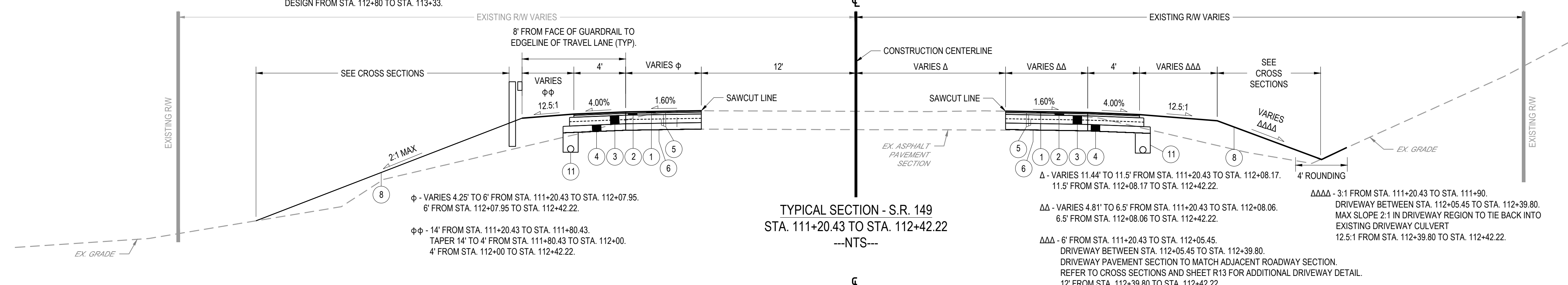
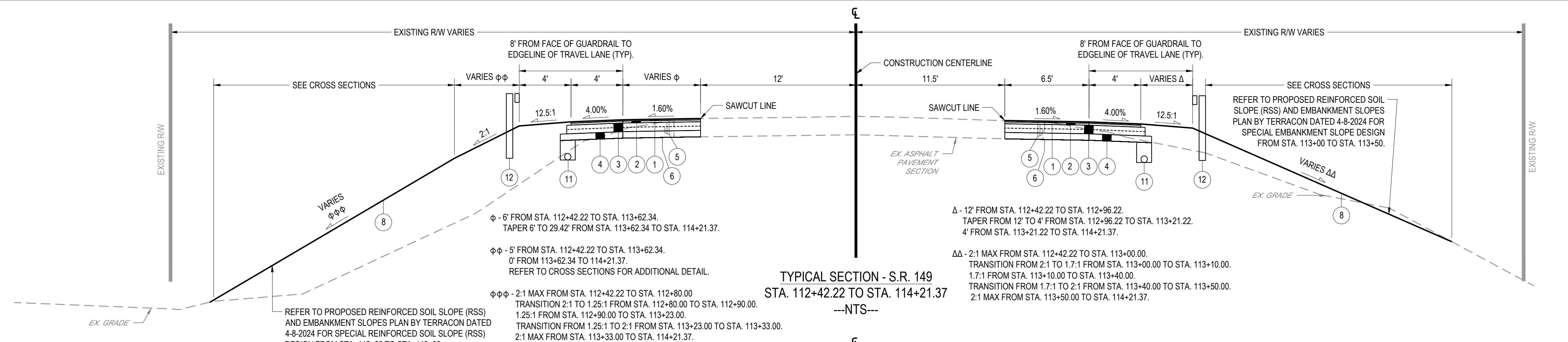
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GENERAL NOTES S.R. 149

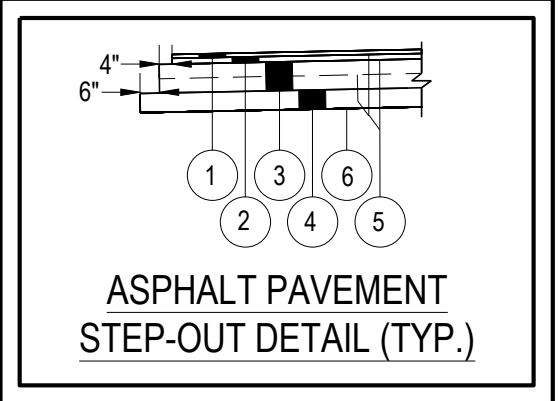
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LEGEND	
1	ODOT ITEM 441 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), AS PER PLAN (PG70-22M)
2	ODOT ITEM 441 - 1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
3	ODOT ITEM 301 - 8" ASPHALT CONCRETE BASE, PG64-22 (TWO 4" LIFTS, ITEM 407 BETWEEN LIFT)
4	ODOT ITEM 304 - 6" AGGREGATE BASE
5	ODOT ITEM 407 - TACK COAT
6	ODOT ITEM 204 - SUBGRADE COMPACTION
7	ODOT ITEM 254 - 3" PAVEMENT PLANING (MILL OF EX. SURFACE AND INTERMEDIATE COURSE)
8	ODOT ITEM 659 - SEEDING AND MULCHING
9	ODOT ITEM 609 - ODOT TYPE 2 COMBINATION CURB AND GUTTER PER BP-5.1
10	ODOT ITEM 411 - 6" STABILIZED CRUSHED AGGREGATE WITH ODOT ITEM 408 - PRIME COAT, AS PER PLAN - SEE ITEM 408 NOTE
11	ODOT ITEM 605 - 6" BASE PIPE UNDERDRAIN WITH GEOTEXTILE FABRIC, TYPE A, 18" DEPTH TO PIPE BOTTOM FROM SUBGRADE (TYP). DEPTH VARIES AT SELECTED LOCATIONS. SEE CROSS SECTIONS FOR UNDERDRAIN ELEVATIONS/OFFSET.
12	ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
---	EXISTING GRADE/PAVEMENT SECTION



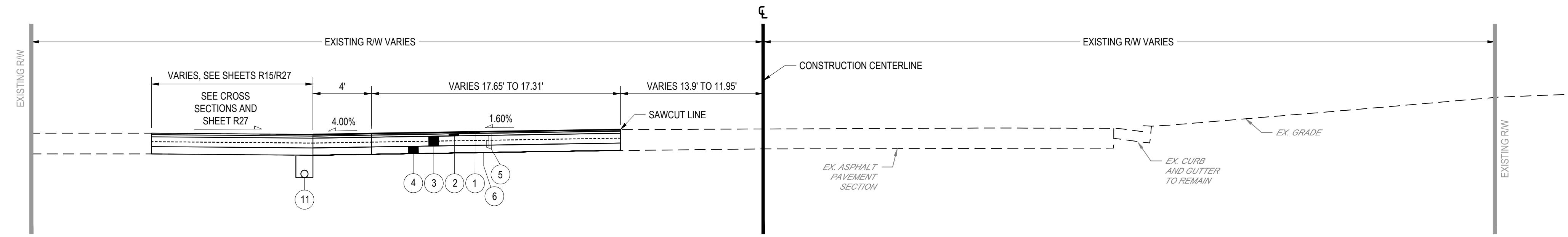
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TYPICAL SECTIONS
S.R. 149

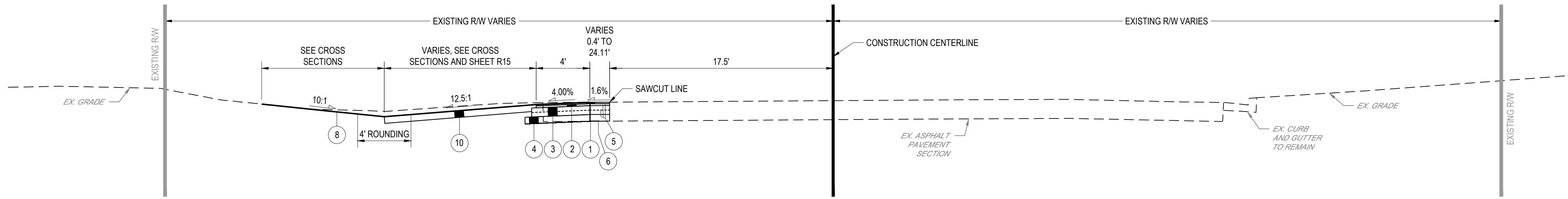
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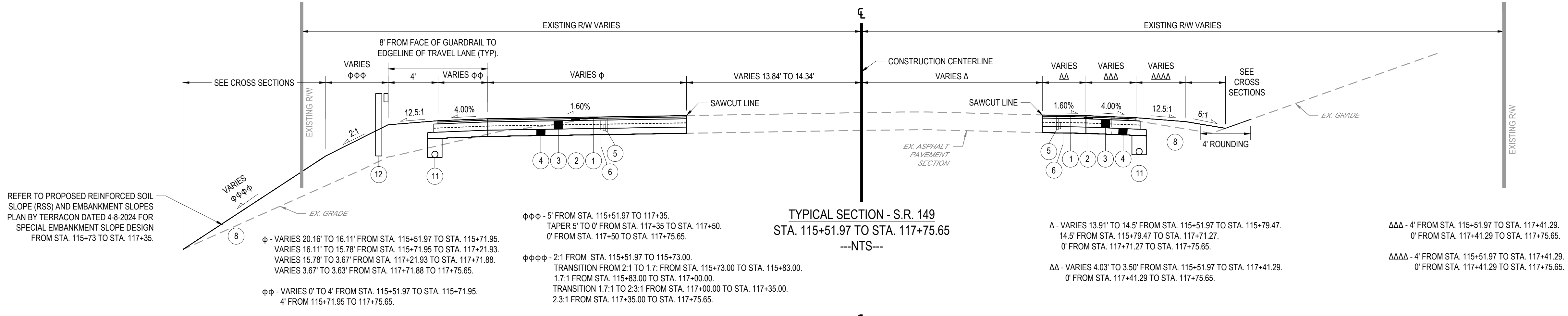
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TYPICAL SECTION - S.R. 149
STA. 122+17.06 TO STA. 122+95.92
---NTS---



TYPICAL SECTION - S.R. 149
STA. 120+30.95 TO STA. 121+29.23
---NTS---



TYPICAL SECTION - S.R. 149
STA. 115+51.97 TO STA. 117+75.65
---NTS---

REFER TO PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES PLAN BY TERRACON DATED 4-8-2024 FOR SPECIAL EMBANKMENT SLOPE DESIGN FROM STA. 115+73 TO STA. 117+35.

ϕ - VARIES 20.16' TO 16.11' FROM STA. 115+51.97 TO STA. 115+71.95.
VARIES 16.11' TO 15.78' FROM STA. 115+71.95 TO STA. 117+21.93.
VARIES 15.78' TO 3.67' FROM STA. 117+21.93 TO STA. 117+71.88.
VARIES 3.67' TO 3.63' FROM STA. 117+71.88 TO 117+75.65.

ϕ - VARIES 0' TO 4' FROM STA. 115+51.97 TO STA. 115+71.95.
4' FROM 115+71.95 TO 117+75.65.

$\phi\phi$ - 5' FROM STA. 115+51.97 TO 117+35.
TAPER 5' TO 0' FROM STA. 117+35 TO STA. 117+50.
0' FROM STA. 117+50 TO STA. 117+75.65.

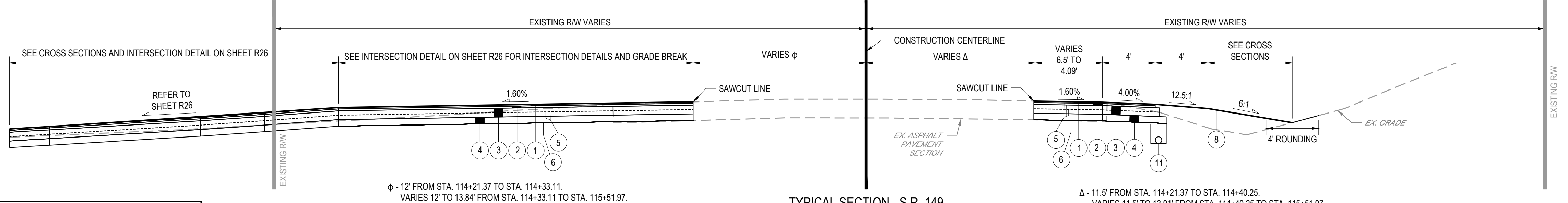
$\phi\phi\phi$ - 2:1 FROM STA. 115+51.97 TO 115+73.00.
TRANSITION FROM 2:1 TO 1.7: FROM STA. 115+73.00 TO STA. 115+83.00.
1.7:1 FROM STA. 115+83.00 TO STA. 117+00.00.
TRANSITION 1.7:1 TO 2.3:1 FROM STA. 117+00.00 TO STA. 117+35.00.
2.3:1 FROM STA. 117+35.00 TO STA. 117+75.65.

Δ - VARIES 13.91' TO 14.5' FROM STA. 115+51.97 TO STA. 115+79.47.
14.5' FROM STA. 115+79.47 TO STA. 117+71.27.
0' FROM STA. 117+71.27 TO STA. 117+75.65.

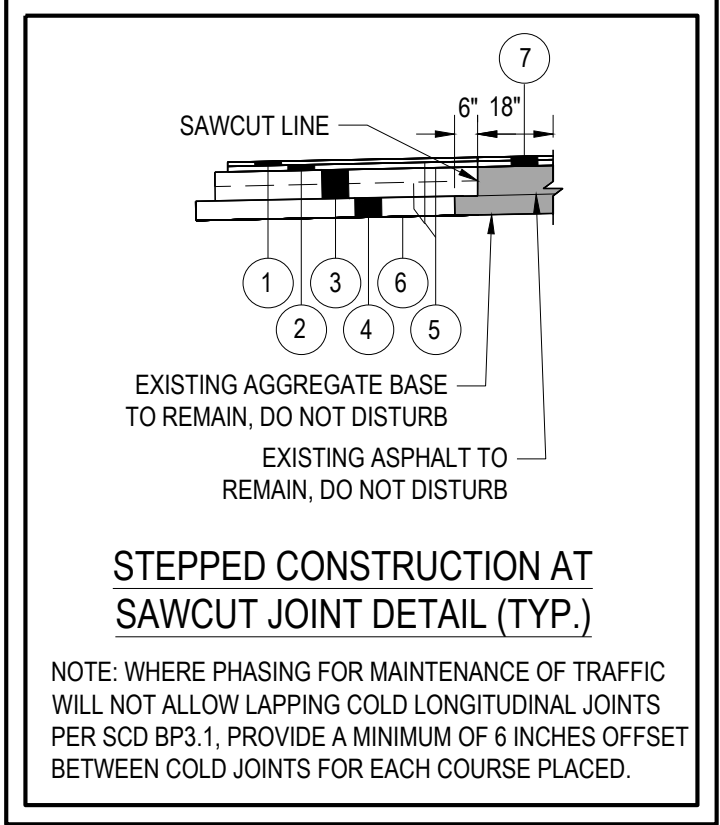
$\Delta\Delta$ - VARIES 4.03' TO 3.50' FROM STA. 115+51.97 TO STA. 117+41.29.
0' FROM STA. 117+41.29 TO STA. 117+75.65.

$\Delta\Delta\Delta$ - 4' FROM STA. 115+51.97 TO STA. 117+41.29.
0' FROM STA. 117+41.29 TO STA. 117+75.65.

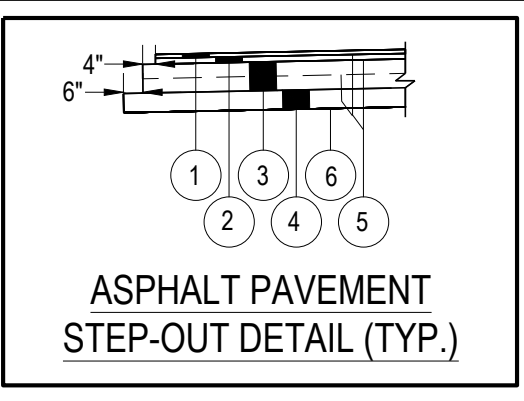
$\Delta\Delta\Delta\Delta$ - 4' FROM STA. 115+51.97 TO STA. 117+41.29.
0' FROM STA. 117+41.29 TO STA. 117+75.65.



TYPICAL SECTION - S.R. 149
STA. 114+21.37 TO STA. 115+51.97
---NTS---



- LEGEND**
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 - 12 ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
 - EXISTING GRADE/PAVEMENT SECTION



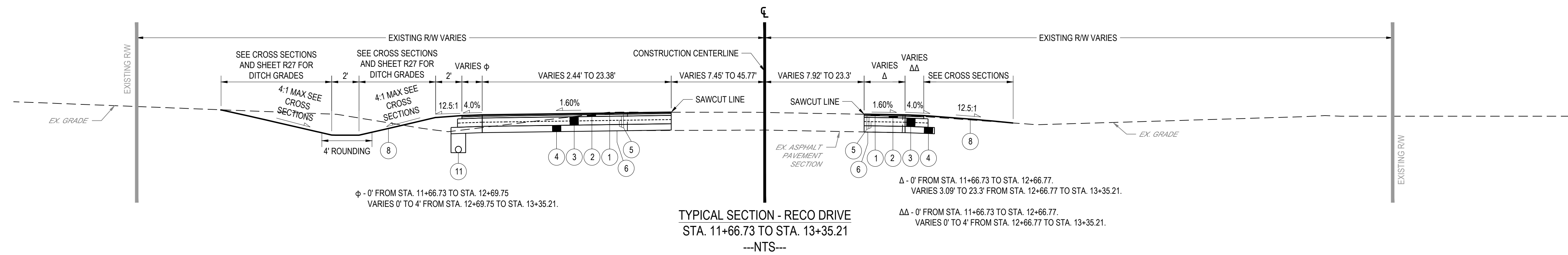
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TYPICAL SECTIONS
S.R. 149

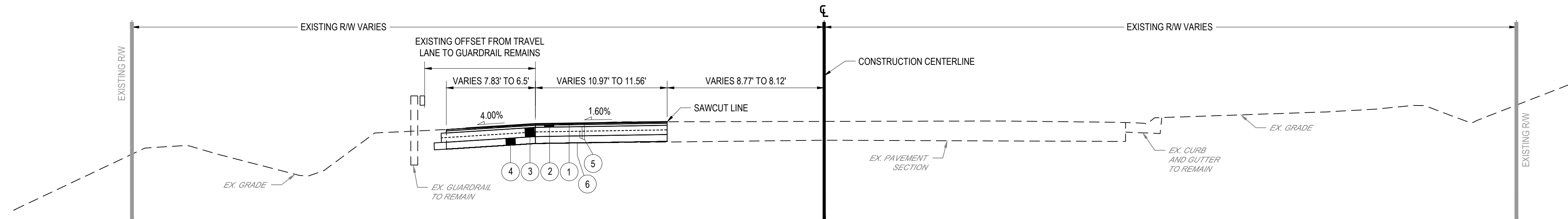
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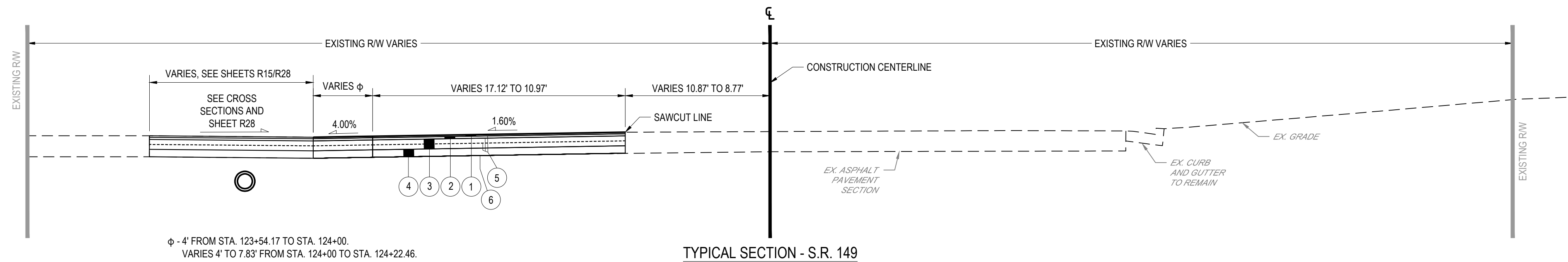
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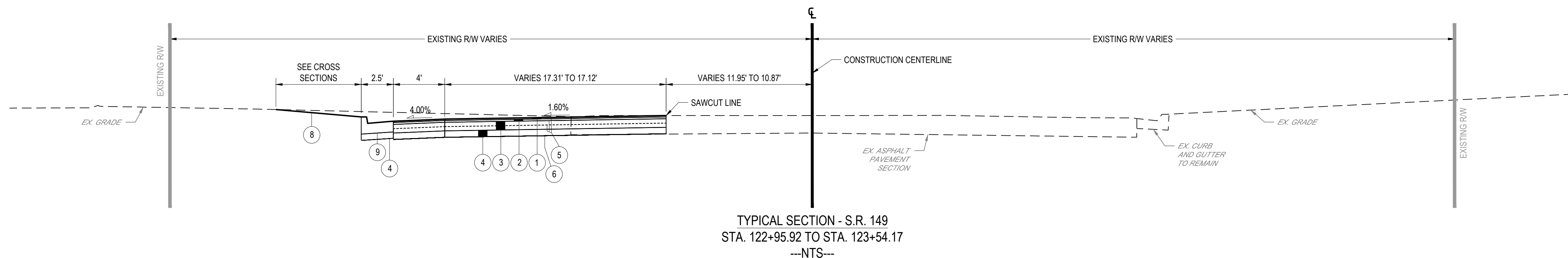
TYPICAL SECTION - RECO DRIVE
STA. 11+66.73 TO STA. 13+35.21
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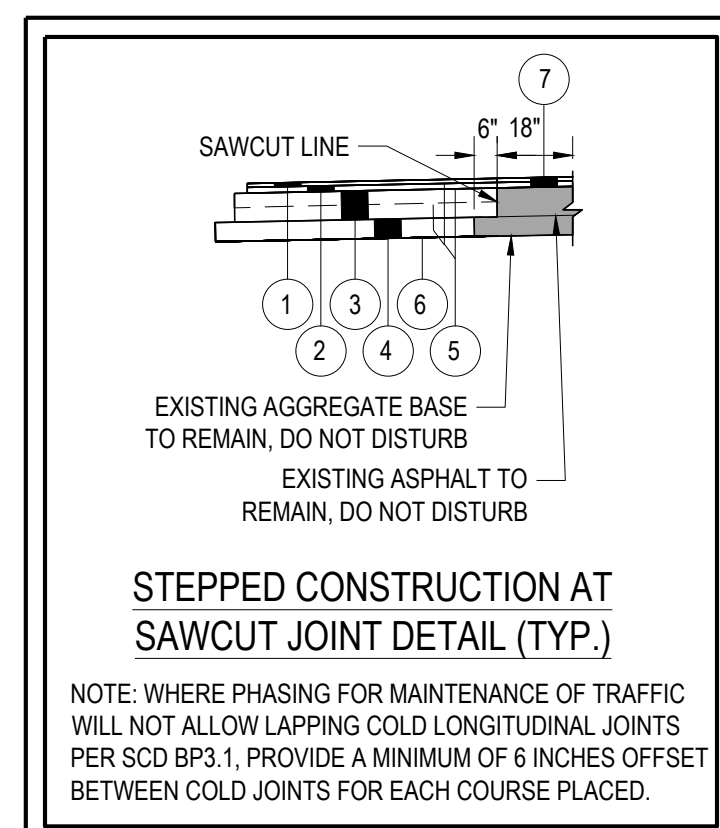
TYPICAL SECTION - S.R. 149
STA. 124+22.46 TO STA. 124+48.45
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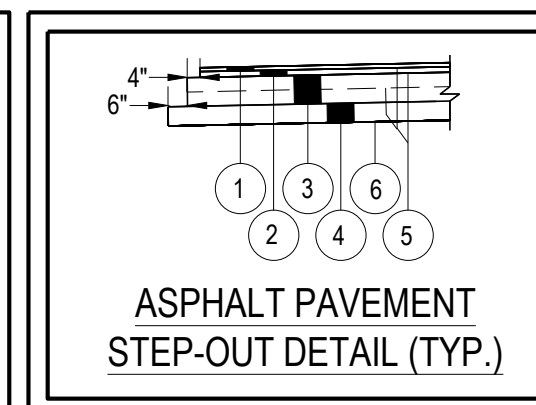
TYPICAL SECTION - S.R. 149
STA. 123+54.17 TO STA. 124+22.46
---NTS---



TYPICAL SECTION - S.R. 149
STA. 122+95.92 TO STA. 123+54.17
---NTS---



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12	ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
---	EXISTING GRADE/PAVEMENT SECTION



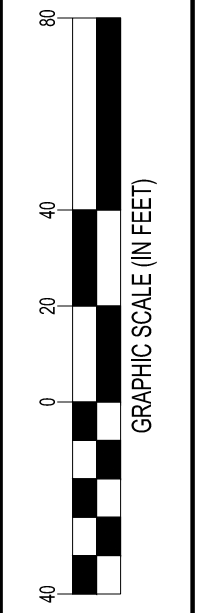
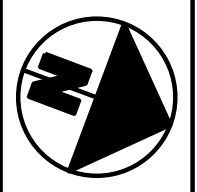
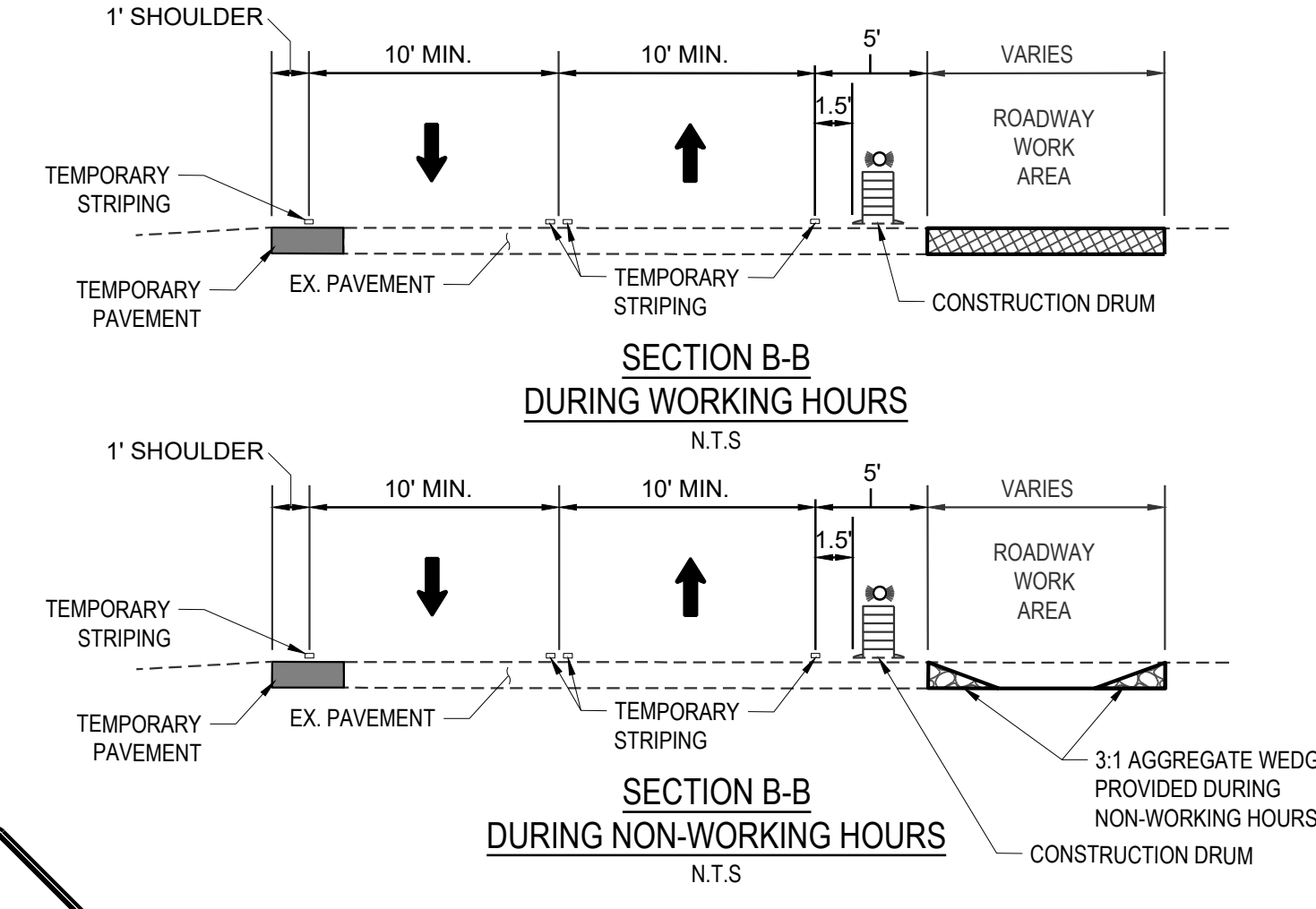
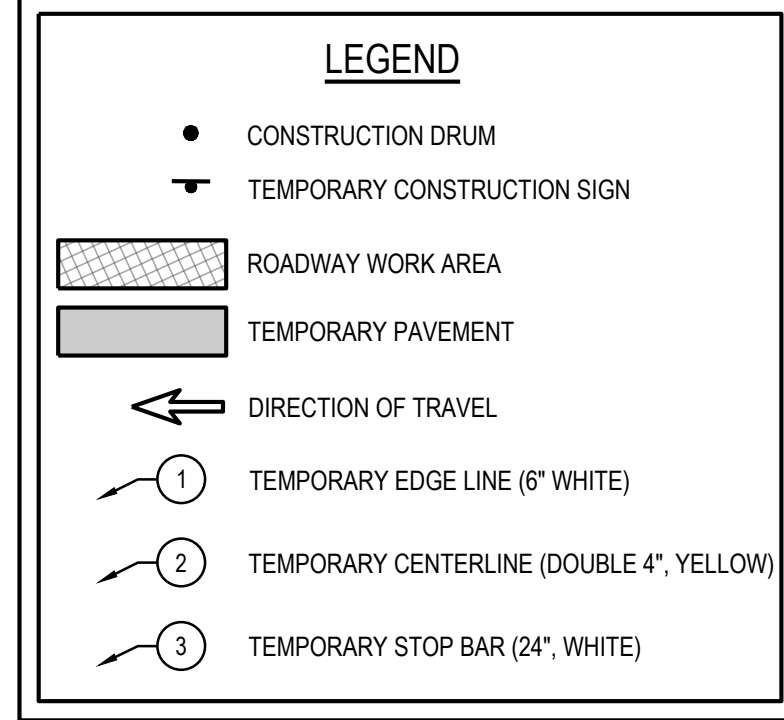
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TYPICAL SECTIONS
S.R. 149

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- NOTES:**
- CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVES WITHIN MAINTENANCE OF TRAFFIC LIMITS THROUGH THE DURATION OF CONSTRUCTION. CONTRACTOR TO COORDINATE ACCESS AND CLOSURES WITH PROPERTY OWNERS WITH DRIVEWAYS IMPACTED IN THE CONSTRUCTION ZONE.
 - ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE REMOVABLE TAPE. IF WORK IS EXPECTED IN WINTER WEATHER CONDITIONS, CONTACT ENGINEER FOR SUITABLE REPLACEMENT.
 - EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL MARKINGS OR ARE LABELED TO BE REMOVED SHALL BE COVERED WITH REMOVABLE BLACKOUT TAPE (CMS 740.06, TYPE I).
 - ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE REMOVABLE TAPE (CMS 740.06, TYPE I).
 - TEMPORARILY BAG/COVER EXISTING SIGNS IN WORK ZONE WHEN THEY CONFLICT WITH INTENDED MAINTENANCE OF TRAFFIC PLAN.
 - STEADY BURNING TYPE A WARNING LIGHTS SHOWN ON THE ADVANCE WARNING SIGNS ARE REQUIRED WHENEVER A NIGHT LANE CLOSURE IS NECESSARY.
 - PROVISIONS SHALL BE MADE TO STABILIZE THE DRUMS TO PREVENT THEM FROM BLOWING OVER.
 - ALL MATERIAL AND EQUIPMENT SHALL BE REMOVED FROM THE CLOSURE AND THE WORK AREA WHEN NO WORK IS BEING DONE.
 - ALL TAPERS AND WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH REQUIREMENTS OUTLINED IN THE OMUTCD.

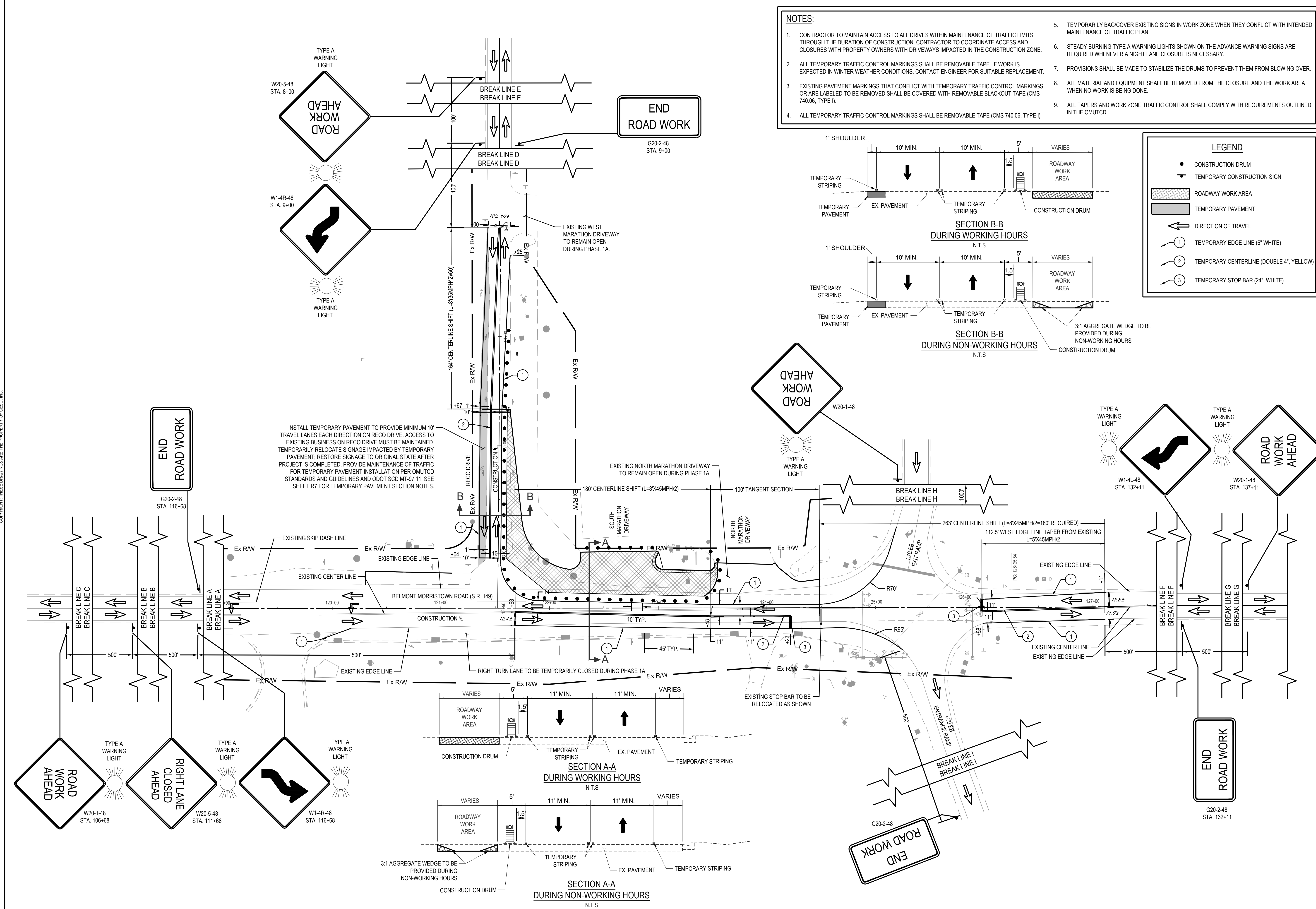


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MAINTENANCE OF TRAFFIC - PHASE 1A
S.R. 149

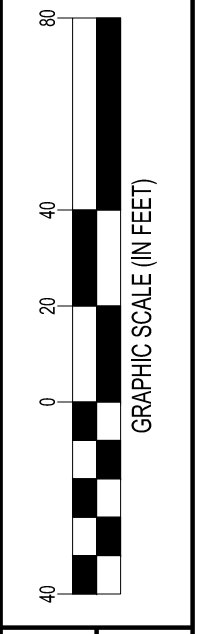
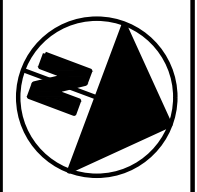
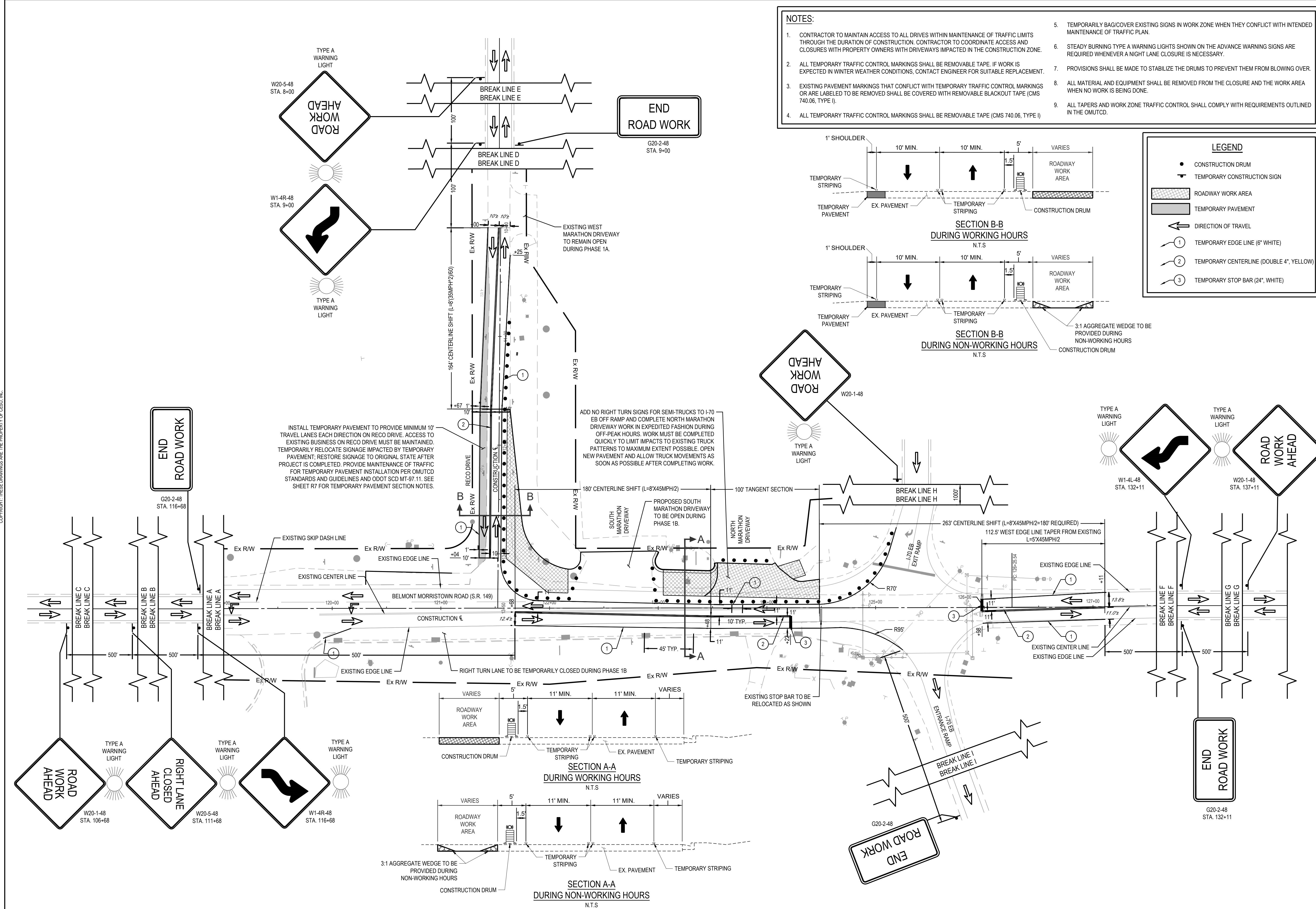
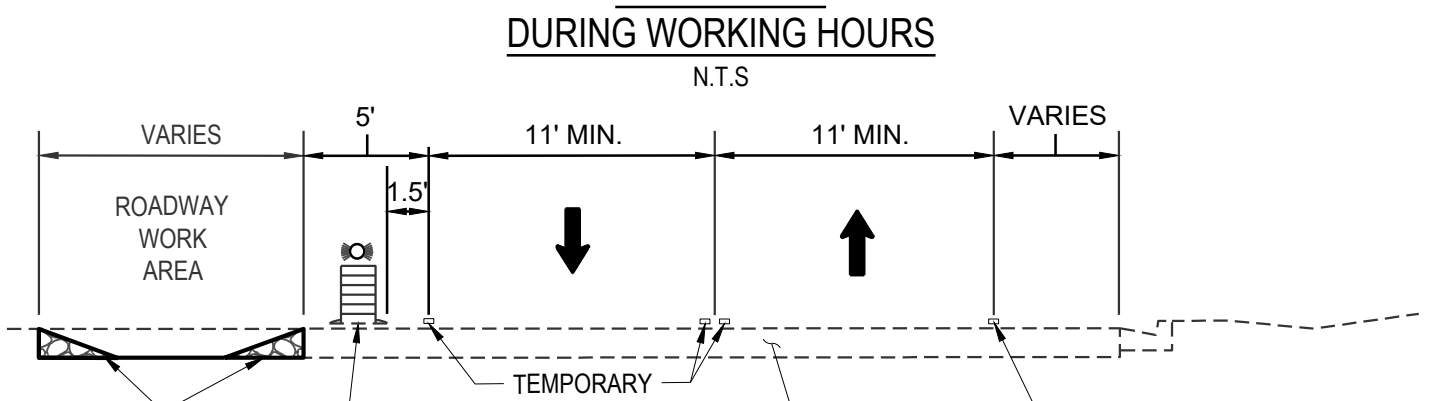
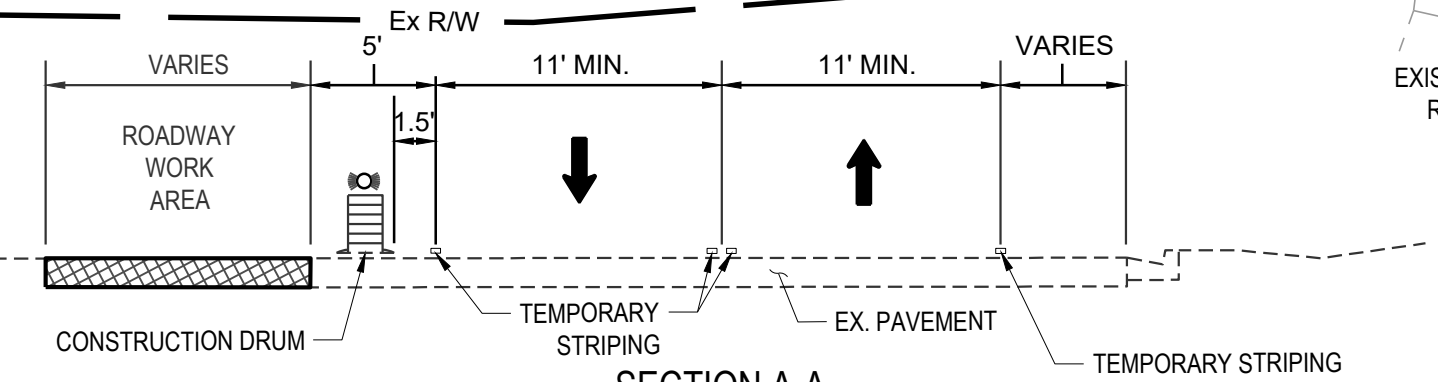
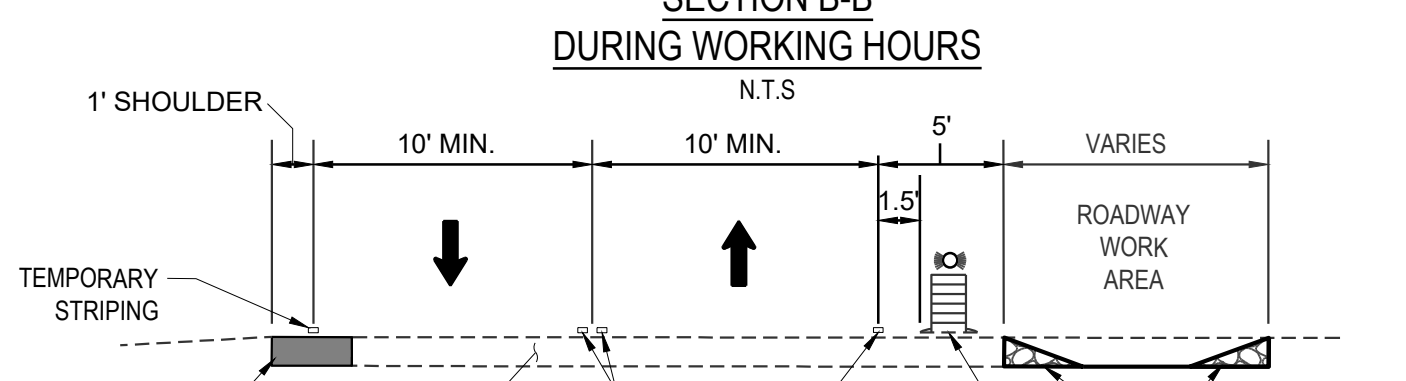
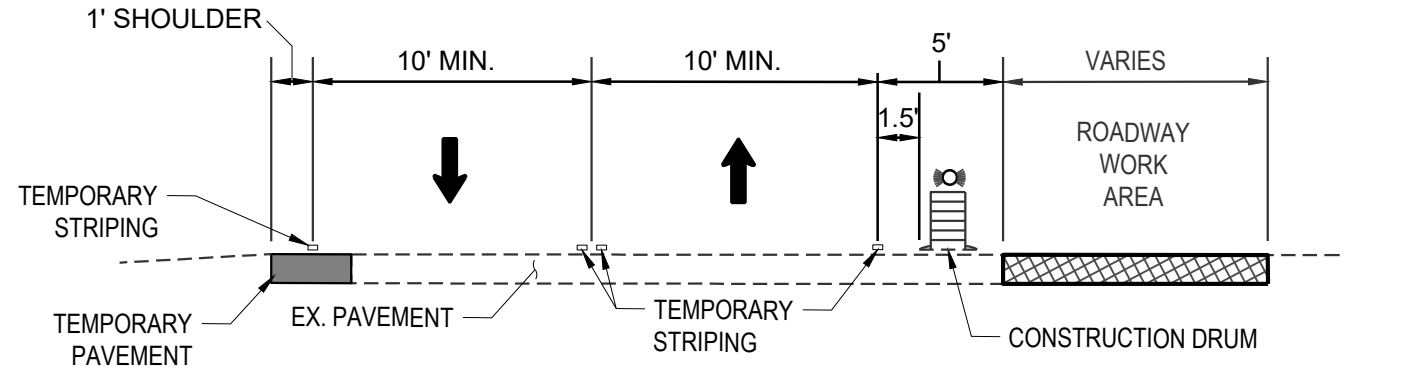
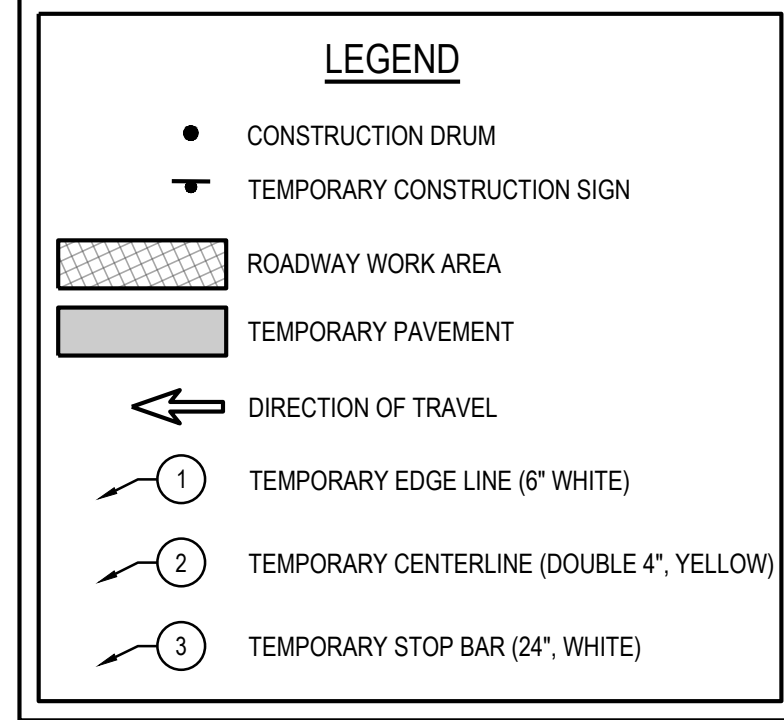
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- NOTES:**
- CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVES WITHIN MAINTENANCE OF TRAFFIC LIMITS THROUGH THE DURATION OF CONSTRUCTION. CONTRACTOR TO COORDINATE ACCESS AND CLOSURES WITH PROPERTY OWNERS WITH DRIVEWAYS IMPACTED IN THE CONSTRUCTION ZONE.
 - ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE REMOVABLE TAPE. IF WORK IS EXPECTED IN WINTER WEATHER CONDITIONS, CONTACT ENGINEER FOR SUITABLE REPLACEMENT.
 - EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL MARKINGS OR ARE LABELED TO BE REMOVED SHALL BE COVERED WITH REMOVABLE BLACKOUT TAPE (CMS 740.06, TYPE I).
 - ALL TEMPORARY TRAFFIC CONTROL MARKINGS SHALL BE REMOVABLE TAPE (CMS 740.06, TYPE I)
 - TEMPORARILY BAG/COVER EXISTING SIGNS IN WORK ZONE WHEN THEY CONFLICT WITH INTENDED MAINTENANCE OF TRAFFIC PLAN.
 - STEADY BURNING TYPE A WARNING LIGHTS SHOWN ON THE ADVANCE WARNING SIGNS ARE REQUIRED WHENEVER A NIGHT LANE CLOSURE IS NECESSARY.
 - PROVISIONS SHALL BE MADE TO STABILIZE THE DRUMS TO PREVENT THEM FROM BLOWING OVER.
 - ALL MATERIAL AND EQUIPMENT SHALL BE REMOVED FROM THE CLOSURE AND THE WORK AREA WHEN NO WORK IS BEING DONE.
 - ALL TAPERS AND WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH REQUIREMENTS OUTLINED IN THE OMUTCD.



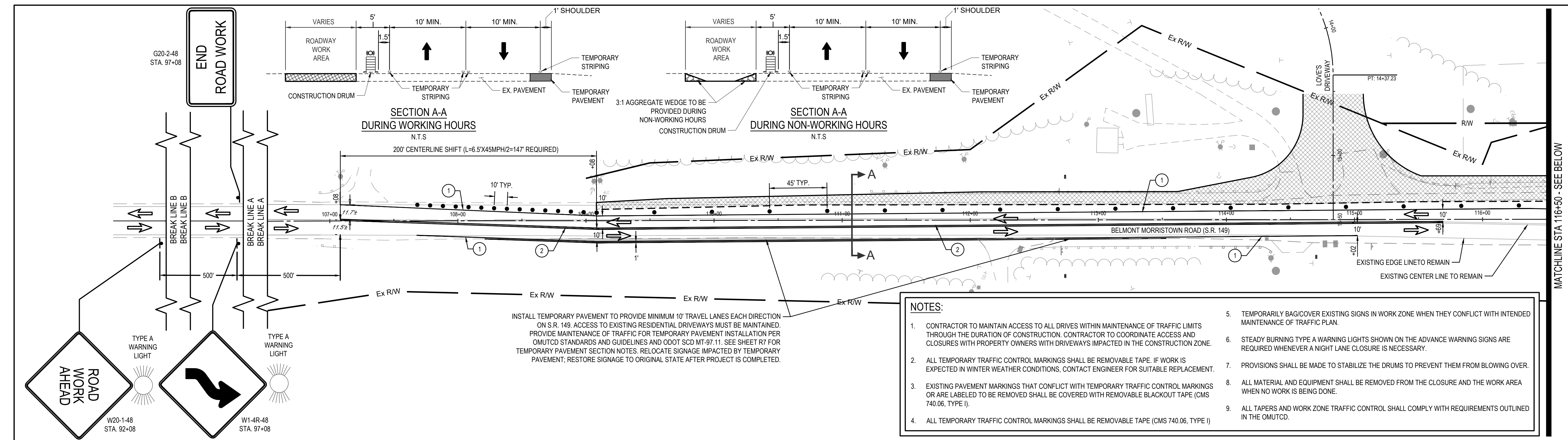
CALCULATED P.I.D. CHECKED TDH

MAINTENANCE OF TRAFFIC - PHASE 1B
S.R. 149

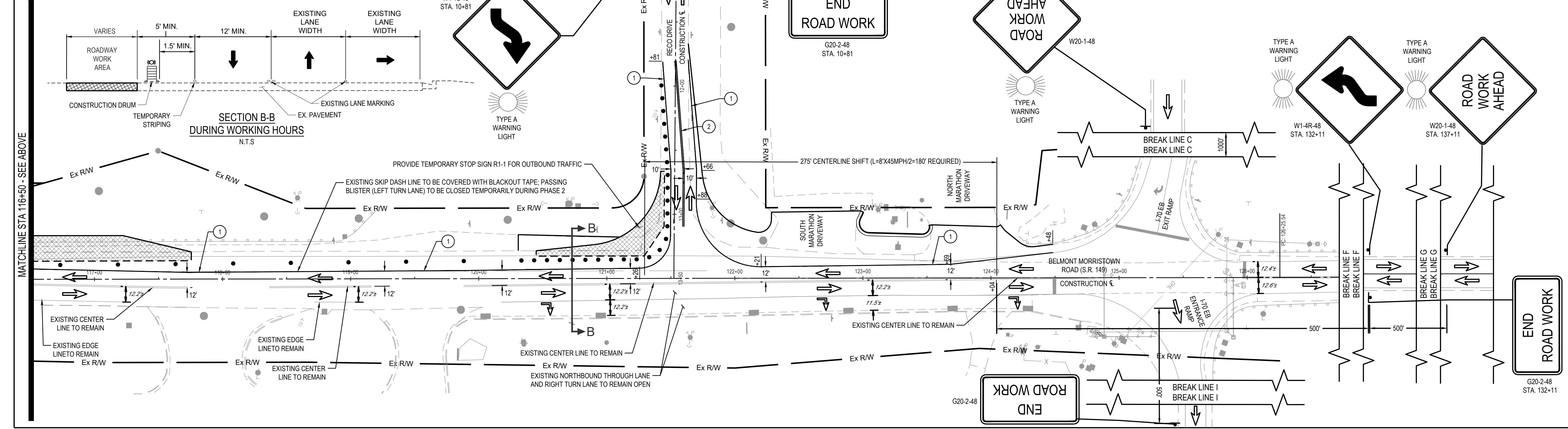
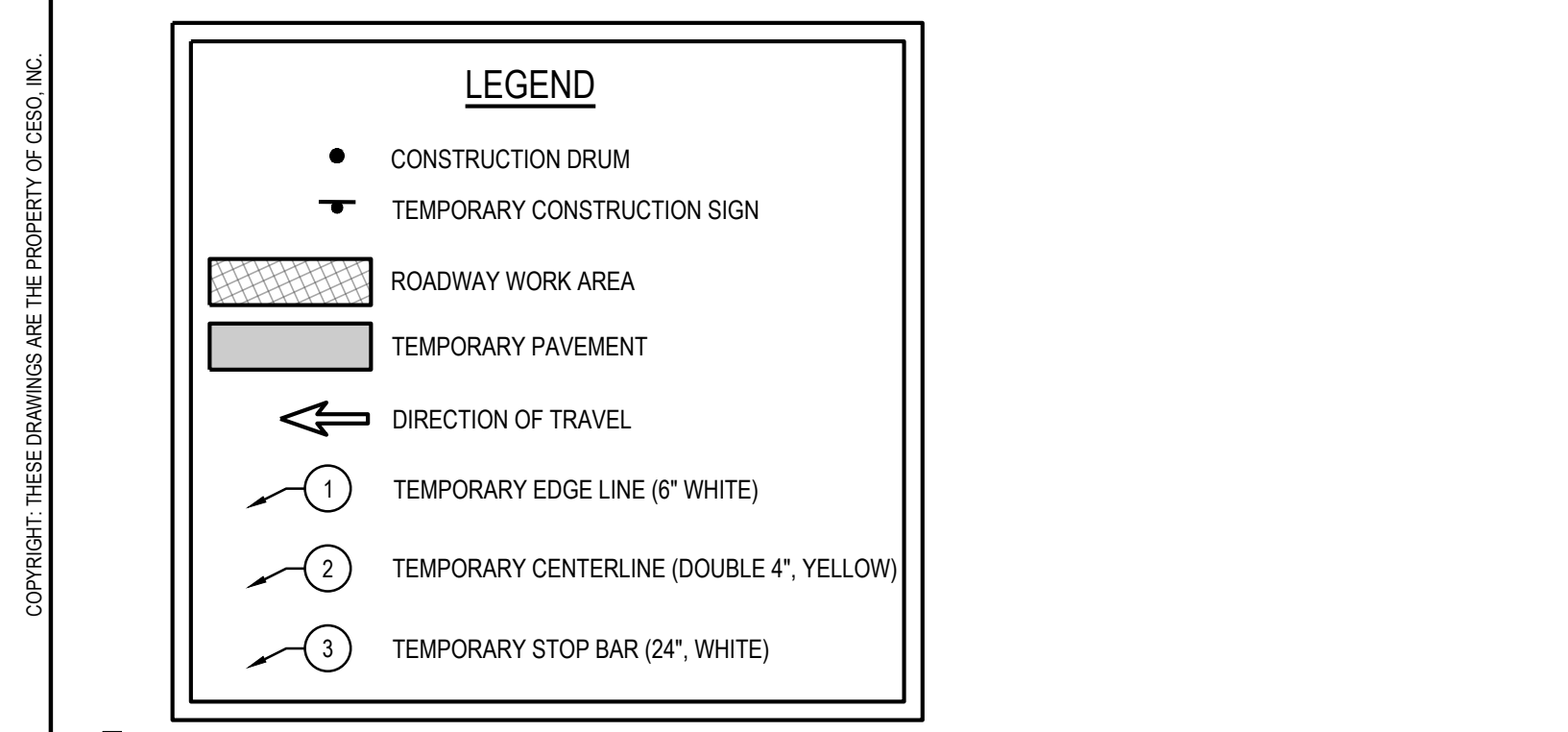
BEL-149-23.44

R9
R31

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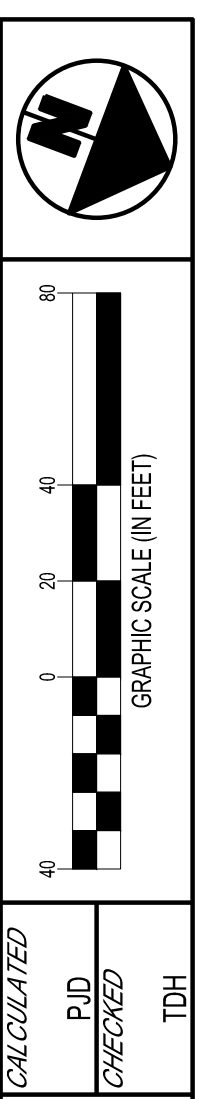
- NOTES:**
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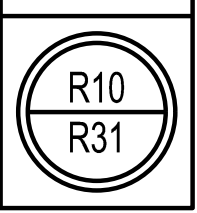
MATCHLINE STA 116+50 - SEE ABOVE

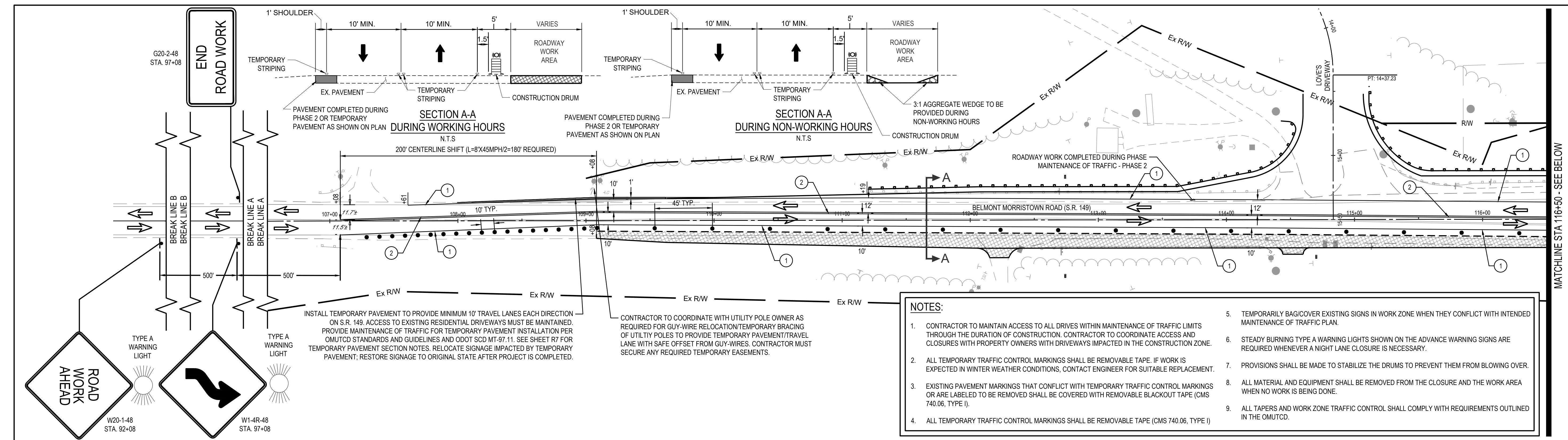
MATCHLINE STA 116+50 - SEE BELOW



MAINTENANCE OF TRAFFIC - PHASE 2
S.R. 149

BEL-149-23.44

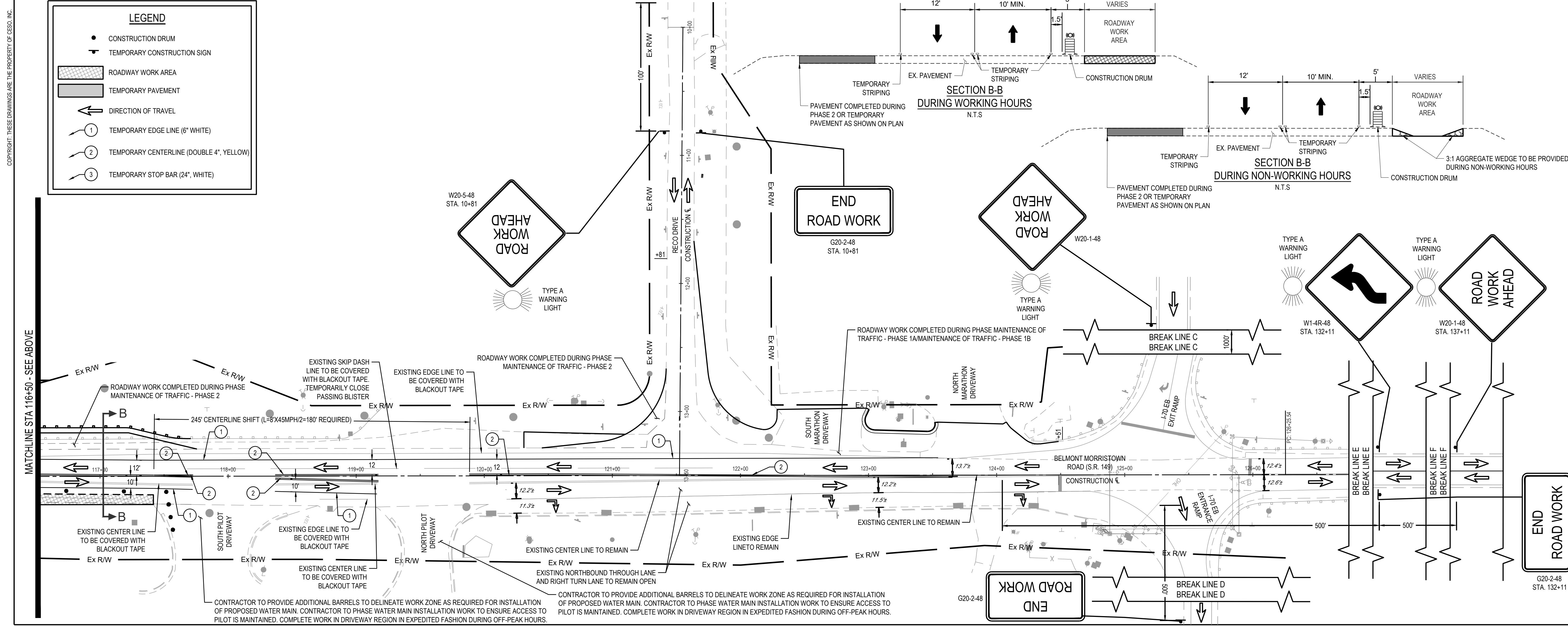
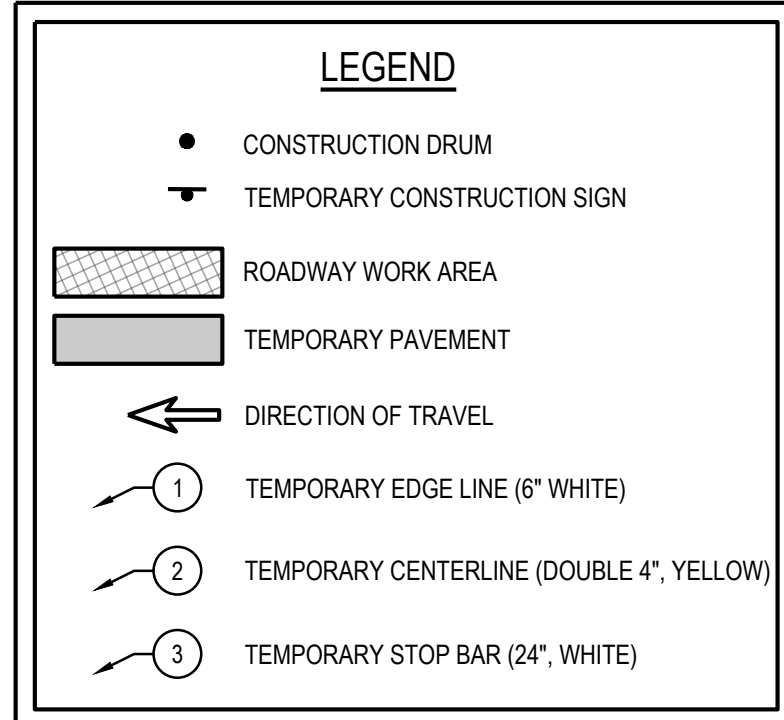




- NOTES:**
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 - PROVISIONS SHALL BE MADE TO STABILIZE THE DRUMS TO PREVENT THEM FROM BLOWING OVER.
 - ALL MATERIAL AND EQUIPMENT SHALL BE REMOVED FROM THE CLOSURE AND THE WORK AREA WHEN NO WORK IS BEING DONE.
 - ALL TAPERS AND WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH REQUIREMENTS OUTLINED IN THE OMTCD.

INSTALL TEMPORARY PAVEMENT TO PROVIDE MINIMUM 10' TRAVEL LANES EACH DIRECTION ON S.R. 149. ACCESS TO EXISTING RESIDENTIAL DRIVEWAYS MUST BE MAINTAINED. PROVIDE MAINTENANCE OF TRAFFIC FOR TEMPORARY PAVEMENT INSTALLATION PER OMTCD STANDARDS AND GUIDELINES AND ODOT SCD MT-97.11. SEE SHEET R7 FOR TEMPORARY PAVEMENT SECTION NOTES. RELOCATE SIGNAGE IMPACTED BY TEMPORARY PAVEMENT; RESTORE SIGNAGE TO ORIGINAL STATE AFTER PROJECT IS COMPLETED.

CONTRACTOR TO COORDINATE WITH UTILITY POLE OWNER AS REQUIRED FOR GUY-WIRE RELOCATION/TEMPORARY BRACING OF UTILITY POLES TO PROVIDE TEMPORARY PAVEMENT/TRAVEL LANE WITH SAFE OFFSET FROM GUY-WIRES. CONTRACTOR MUST SECURE ANY REQUIRED TEMPORARY EASEMENTS.



CONTRACTOR TO PROVIDE ADDITIONAL BARRELS TO DELINEATE WORK ZONE AS REQUIRED FOR INSTALLATION OF PROPOSED WATER MAIN. CONTRACTOR TO PHASE WATER MAIN INSTALLATION WORK TO ENSURE ACCESS TO PILOT IS MAINTAINED. COMPLETE WORK IN DRIVEWAY REGION IN EXPEDITED FASHION DURING OFF-PEAK HOURS.

BEL-149-23.44
 MAINTENANCE OF TRAFFIC - PHASE 3
 S.R. 149
 MATCHLINE STA 116+50 - SEE ABOVE
 MATCHLINE STA 116+50 - SEE BELOW
 CALCULATED
 P.I.D.
 CHECKED
 TDH
 GRAPHIC SCALE (IN FEET)
 0 20 40 60 80
 R11
 R31
 W:\PROJECTS\LOVES\756267 - ST. CLAIRSVILLE, OH - SR 149\03-CIVIL\PLAN\ROADWAY\PT01756267_MPO03.DWG - 4/30/2024 8:33:40 AM

SITE DESCRIPTION

CONSTRUCTION TO WIDEN EAST AND WEST SIDE OF S.R. 149 TO PROVIDE 175' NB LEFT TURN LANE INTO LOVE'S DRIVEWAY, 175' SB RIGHT-TURN LANE INTO LOVE'S DRIVEWAY, 164' TWLTL BETWEEN SOUTH PILOT DRIVEWAY & NORTH PILOT DRIVEWAY, 125' NB LEFT TURN LANE INTO RECO DRIVE, 200' SB RIGHT TURN LANE INTO RECO DRIVE AND ASSOCIATED LANE RECONFIGURATION TO ACCOMMODATE FOREMENTIONED IMPROVEMENTS. CONSTRUCTION TO WIDEN RECO DRIVE AND INSTALLATION OF TRAFFIC SIGNAL AT S.R. 149 & RECO DRIVE INTERSECTION. DITCH AND SLOPE GRADING AND INSTALLATION OF NECESSARY TRAFFIC CONTROL DEVICES, STORMWATER STRUCTURE AND CONDUIT MODIFICATIONS BETWEEN SOUTH MARATHON DRIVEWAY AND NORTH MARATHON DRIVEWAY.

NOI AND BMP NOTE

NOI AND BMP'S FOR ROADWAY WORK ARE INCLUDED WITH OVERALL SITE SUBMISSION FOR LOVE'S TRAVEL STOP DEVELOPMENT.

EARTH DISTURBED AREAS AND TOTAL AREA OF PROJECT

TOTAL AREA OF PROJECT: 1.95 ACRES
 PROJECT EARTH DISTURBING ACTIVITIES AREA: 1.65 ACRES
 CONTRACTOR EARTH DISTURBING ACTIVITIES AREA: 0.30 ACRES
 NOI EARTH DISTURBING ACTIVITIES AREA: 1.95 ACRES

SITE LOCATION

LAT = N 40° 03' 27"
 LONG = W 81° 03' 09"

REFER TO PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES PLAN BY TERRACON DATED 4-8-2024 FOR SPECIAL REINFORCED SOIL SLOPE (RSS) DESIGN FROM STA. 112+80 TO STA. 113+33.

REFER TO SITE PLANS FOR SITE GRADING, ROADWAY CONTRACTOR TO COORDINATE GRADING TIE IN AND ON SITE SWPPP MEASURES WITH SITE CONTRACTOR

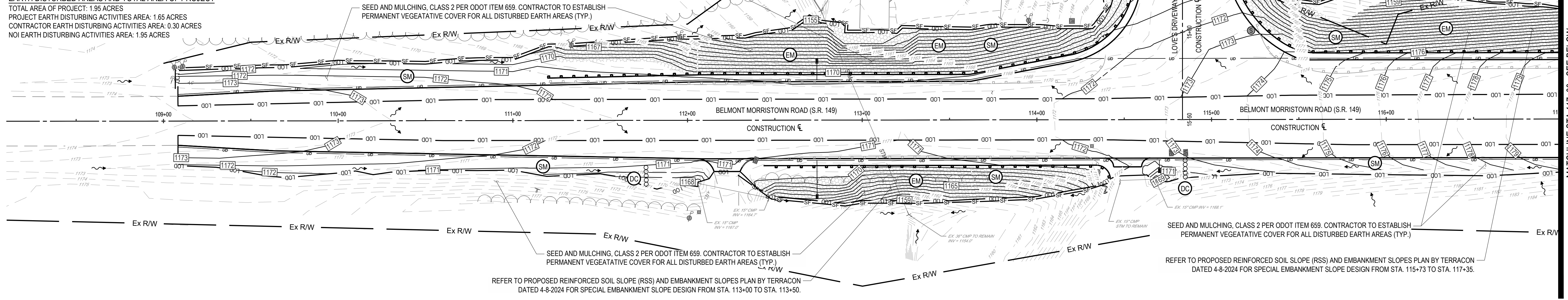
REFER TO SITE PLANS FOR SITE GRADING, ROADWAY CONTRACTOR TO COORDINATE GRADING TIE IN AND ON SITE SWPPP MEASURES WITH SITE CONTRACTOR

SEED AND MULCHING, CLASS 2 PER ODOT ITEM 659. CONTRACTOR TO ESTABLISH PERMANENT VEGETATIVE COVER FOR ALL DISTURBED EARTH AREAS (TYP.)

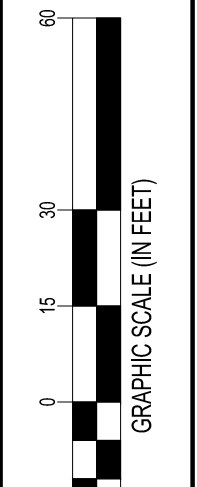
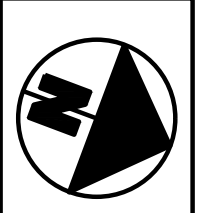
SEED AND MULCHING, CLASS 2 PER ODOT ITEM 659. CONTRACTOR TO ESTABLISH PERMANENT VEGETATIVE COVER FOR ALL DISTURBED EARTH AREAS (TYP.)

REFER TO PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES PLAN BY TERRACON DATED 4-8-2024 FOR SPECIAL EMBANKMENT SLOPE DESIGN FROM STA. 113+00 TO STA. 113+50.

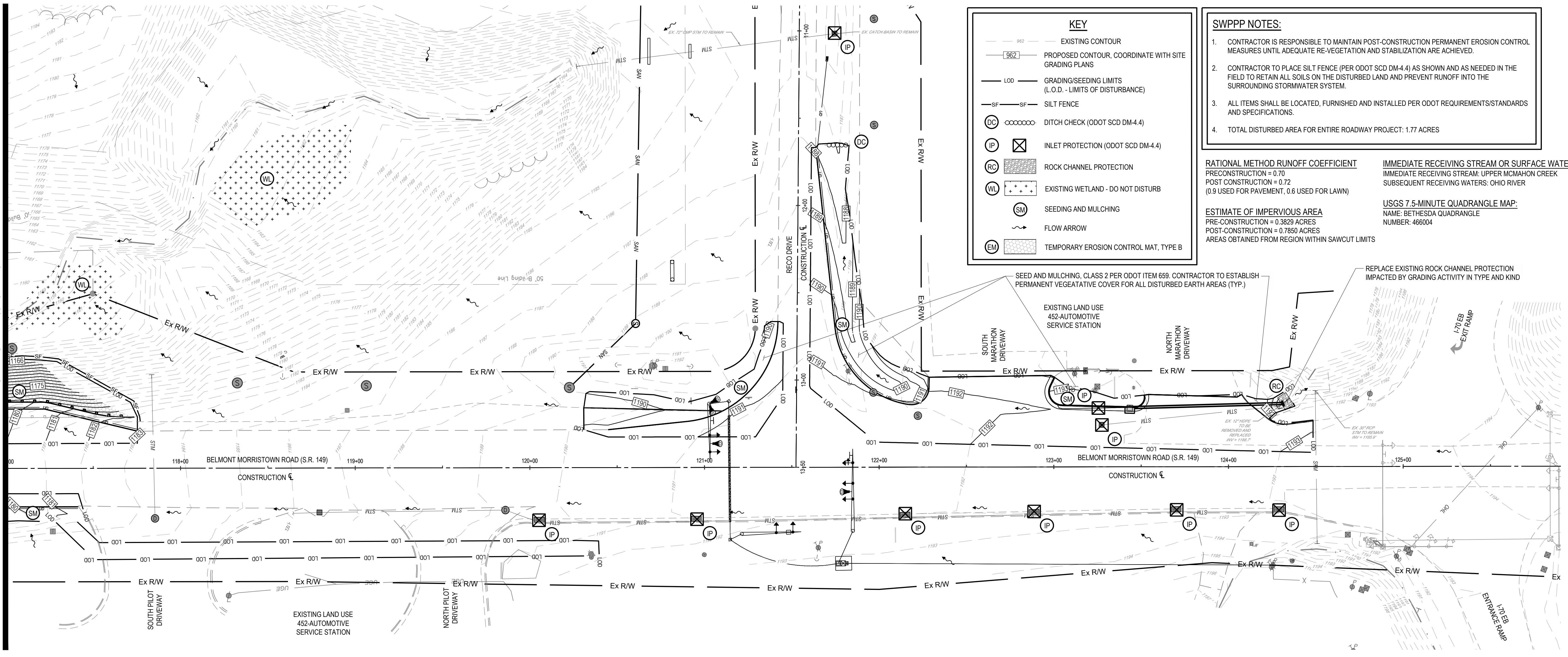
REFER TO PROPOSED REINFORCED SOIL SLOPE (RSS) AND EMBANKMENT SLOPES PLAN BY TERRACON DATED 4-8-2024 FOR SPECIAL EMBANKMENT SLOPE DESIGN FROM STA. 115+73 TO STA. 117+35.



MATCHLINE STA 117+00 - SEE BELOW



CALCULATED P.I.D. CHECKED TDH



KEY

---	EXISTING CONTOUR
---	PROPOSED CONTOUR, COORDINATE WITH SITE GRADING PLANS
---	GRADING/SEEDING LIMITS (L.O.D. - LIMITS OF DISTURBANCE)
---	SILT FENCE
○	DITCH CHECK (ODOT SCD DM-4.4)
⊗	INLET PROTECTION (ODOT SCD DM-4.4)
⊠	ROCK CHANNEL PROTECTION
⊕	EXISTING WETLAND - DO NOT DISTURB
⊙	SEEDING AND MULCHING
→	FLOW ARROW
⊞	TEMPORARY EROSION CONTROL MAT, TYPE B

SWPPP NOTES:

- CONTRACTOR IS RESPONSIBLE TO MAINTAIN POST-CONSTRUCTION PERMANENT EROSION CONTROL MEASURES UNTIL ADEQUATE RE-VEGETATION AND STABILIZATION ARE ACHIEVED.
- CONTRACTOR TO PLACE SILT FENCE (PER ODOT SCD DM-4.4) AS SHOWN AND AS NEEDED IN THE FIELD TO RETAIN ALL SOILS ON THE DISTURBED LAND AND PREVENT RUNOFF INTO THE SURROUNDING STORMWATER SYSTEM.
- ALL ITEMS SHALL BE LOCATED, FURNISHED AND INSTALLED PER ODOT REQUIREMENTS/STANDARDS AND SPECIFICATIONS.
- TOTAL DISTURBED AREA FOR ENTIRE ROADWAY PROJECT: 1.77 ACRES

RATIONAL METHOD RUNOFF COEFFICIENT
 PRECONSTRUCTION = 0.70
 POST CONSTRUCTION = 0.72
 (0.9 USED FOR PAVEMENT, 0.6 USED FOR LAWN)

IMMEDIATE RECEIVING STREAM OR SURFACE WATER:
 IMMEDIATE RECEIVING STREAM: UPPER MCMAHON CREEK
 SUBSEQUENT RECEIVING WATERS: OHIO RIVER

USGS 7.5-MINUTE QUADRANGLE MAP:
 NAME: BETHESDA QUADRANGLE
 NUMBER: 466004

ESTIMATE OF IMPERVIOUS AREA
 PRE-CONSTRUCTION = 0.3829 ACRES
 POST-CONSTRUCTION = 0.7850 ACRES
 AREAS OBTAINED FROM REGION WITHIN SAWCUT LIMITS

SEED AND MULCHING, CLASS 2 PER ODOT ITEM 659. CONTRACTOR TO ESTABLISH PERMANENT VEGETATIVE COVER FOR ALL DISTURBED EARTH AREAS (TYP.)

REPLACE EXISTING ROCK CHANNEL PROTECTION IMPACTED BY GRADING ACTIVITY IN TYPE AND KIND

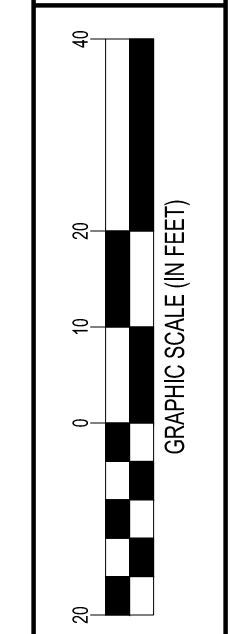
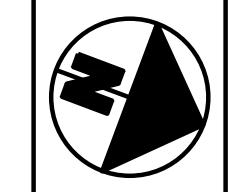
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MATCHLINE STA 117+00 - SEE ABOVE

SITE PLAN
S.R. 149

BEL-149-23.44

R12
R31

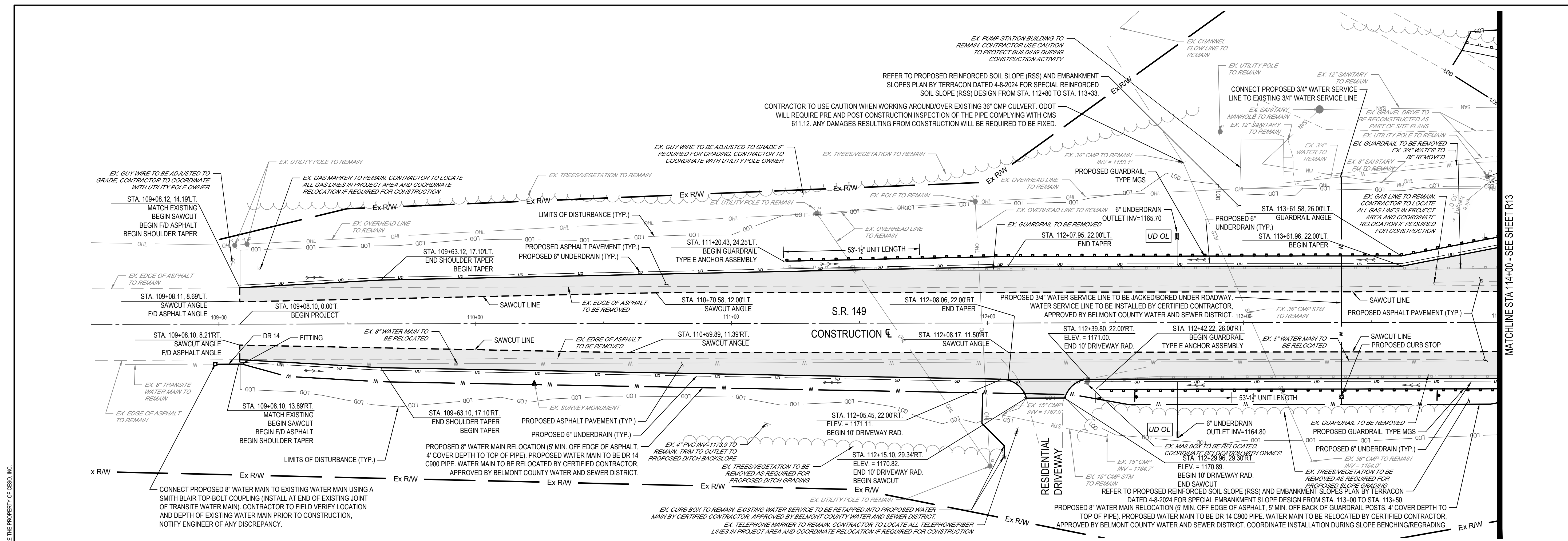


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CHECKED
TDH

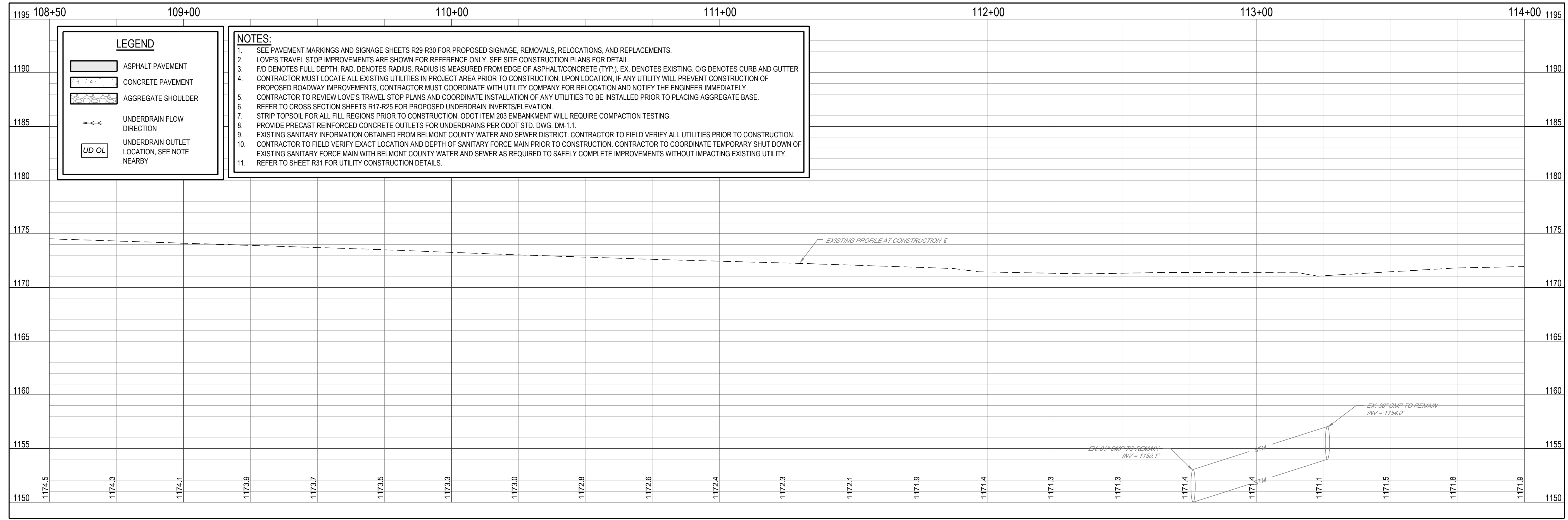
PLAN & PROFILE - STA. 108+50 TO STA. 114+00
S.R. 149

BEL-149-23.44

R13
R31



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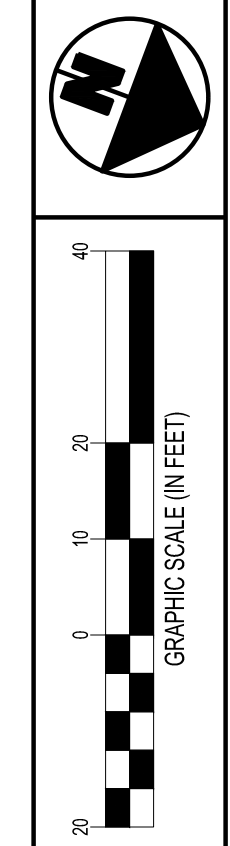


LEGEND

	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	AGGREGATE SHOULDER
	UNDERDRAIN FLOW DIRECTION
	UNDERDRAIN OUTLET LOCATION, SEE NOTE NEARBY

- NOTES:**
- SEE PAVEMENT MARKINGS AND SIGNAGE SHEETS R29-R30 FOR PROPOSED SIGNAGE, REMOVALS, RELOCATIONS, AND REPLACEMENTS.
 - LOVE'S TRAVEL STOP IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE SITE CONSTRUCTION PLANS FOR DETAIL.
 - F/D DENOTES FULL DEPTH, RAD. DENOTES RADIUS, RADIUS IS MEASURED FROM EDGE OF ASPHALT/CONCRETE (TYP.). EX. DENOTES EXISTING, C/G DENOTES CURB AND GUTTER.
 - CONTRACTOR MUST LOCATE ALL EXISTING UTILITIES IN PROJECT AREA PRIOR TO CONSTRUCTION. UPON LOCATION, IF ANY UTILITY WILL PREVENT CONSTRUCTION OF PROPOSED ROADWAY IMPROVEMENTS, CONTRACTOR MUST COORDINATE WITH UTILITY COMPANY FOR RELOCATION AND NOTIFY THE ENGINEER IMMEDIATELY.
 - CONTRACTOR TO REVIEW LOVE'S TRAVEL STOP PLANS AND COORDINATE INSTALLATION OF ANY UTILITIES TO BE INSTALLED PRIOR TO PLACING AGGREGATE BASE.
 - REFER TO CROSS SECTION SHEETS R17-R25 FOR PROPOSED UNDERDRAIN INVERTS/ELEVATION.
 - STRIP TOPSOIL FOR ALL FILL REGIONS PRIOR TO CONSTRUCTION. ODOT ITEM 203 EMBANKMENT WILL REQUIRE COMPACTION TESTING.
 - PROVIDE PRECAST REINFORCED CONCRETE OUTLETS FOR UNDERDRAINS PER ODOT STD. DWG. DM-1.1.
 - EXISTING SANITARY INFORMATION OBTAINED FROM BELMONT COUNTY WATER AND SEWER DISTRICT. CONTRACTOR TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND DEPTH OF SANITARY FORCE MAIN PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE TEMPORARY SHUT DOWN OF EXISTING SANITARY FORCE MAIN WITH BELMONT COUNTY WATER AND SEWER AS REQUIRED TO SAFELY COMPLETE IMPROVEMENTS WITHOUT IMPACTING EXISTING UTILITY.
 - REFER TO SHEET R31 FOR UTILITY CONSTRUCTION DETAILS.

STATE ROUTE 149 PROFILE
Scale: 1" = 20' Horiz.; 1" = 5' Vert.

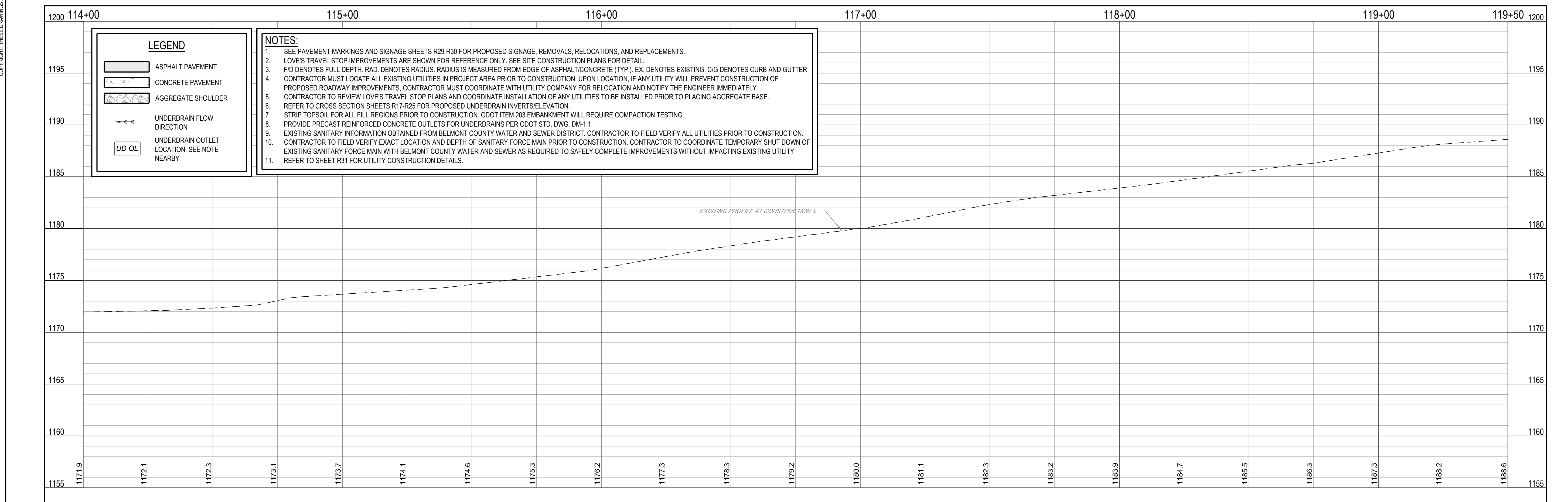
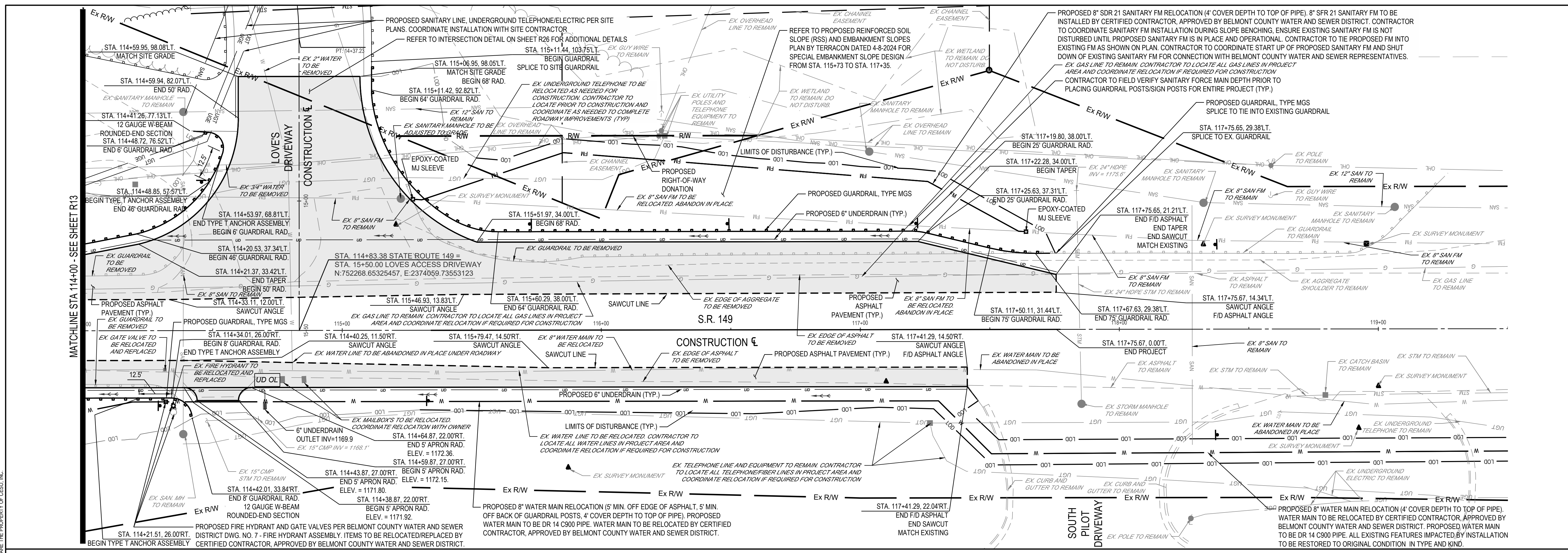


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PLAN & PROFILE - STA. 114+00 TO STA. 119+50
S.R. 149

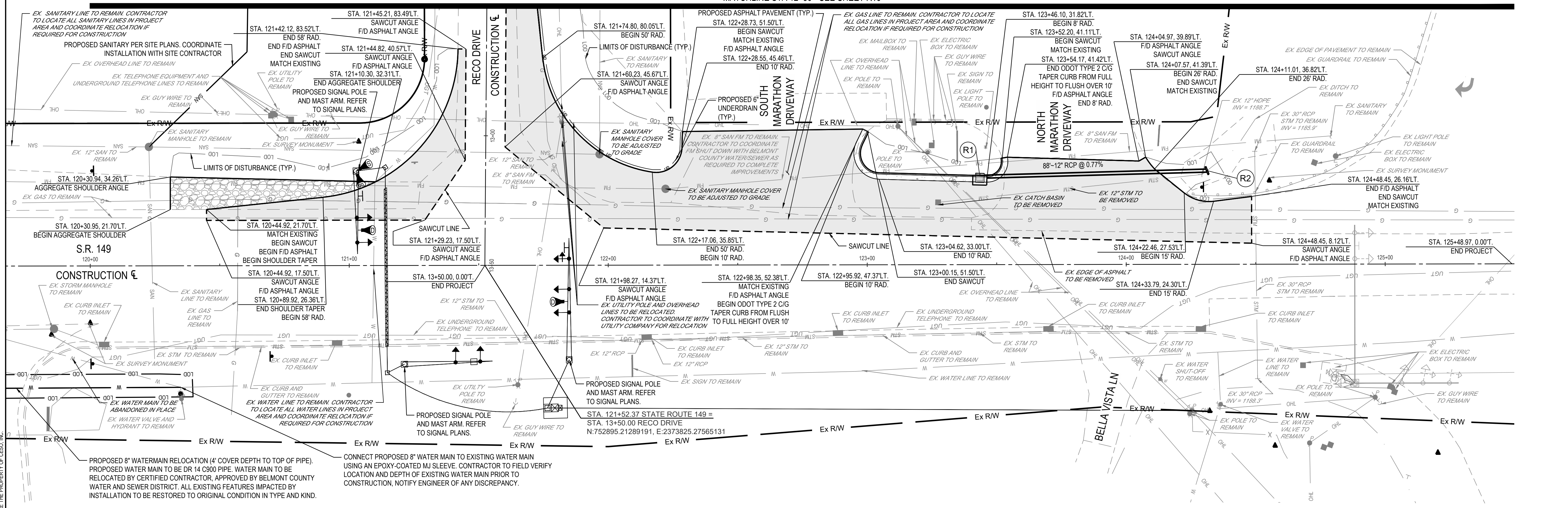
BEL-149-23.44

R14
R31

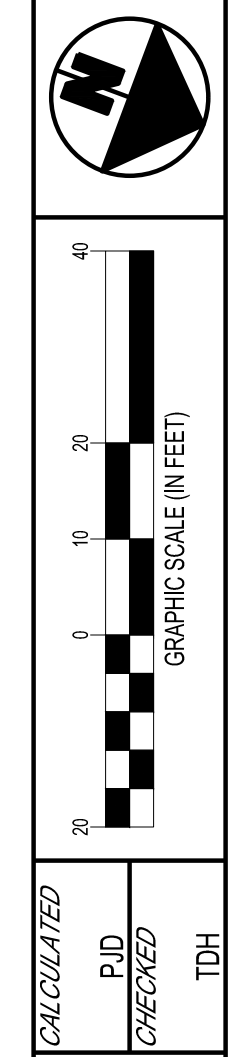


STATE ROUTE 149 PROFILE
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MATCHLINE STA 12+50 - SEE SHEET R16

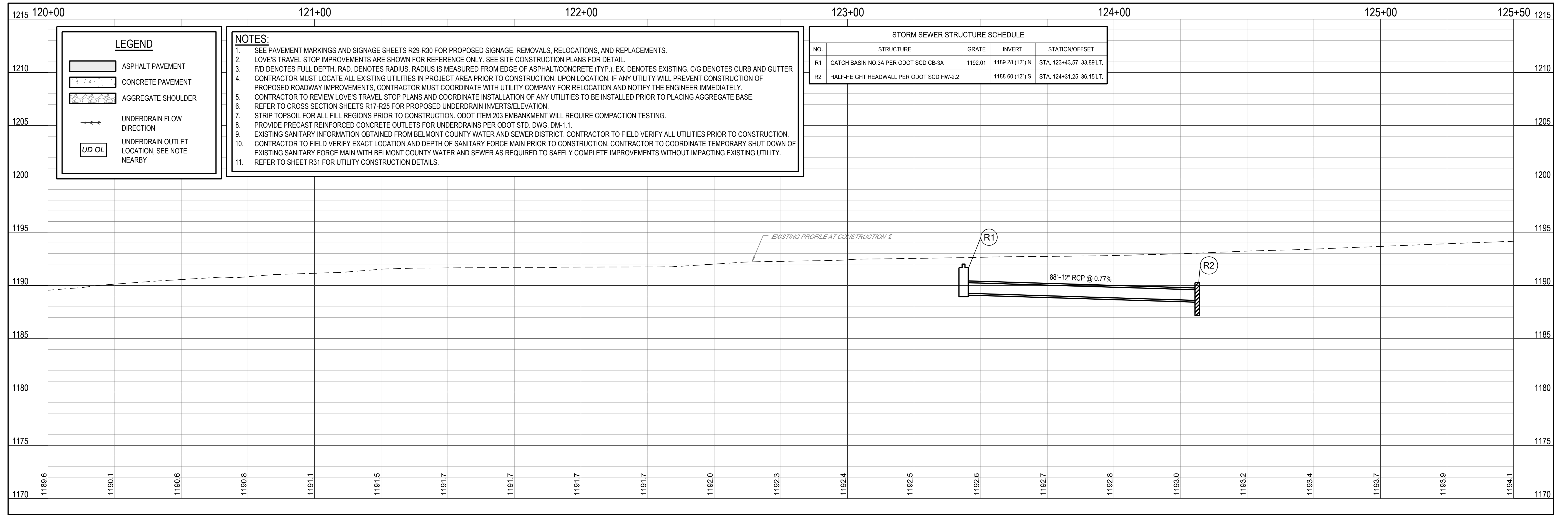


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TDH

PLAN & PROFILE - STA. 120+00 TO STA. 125+50
S.R. 149

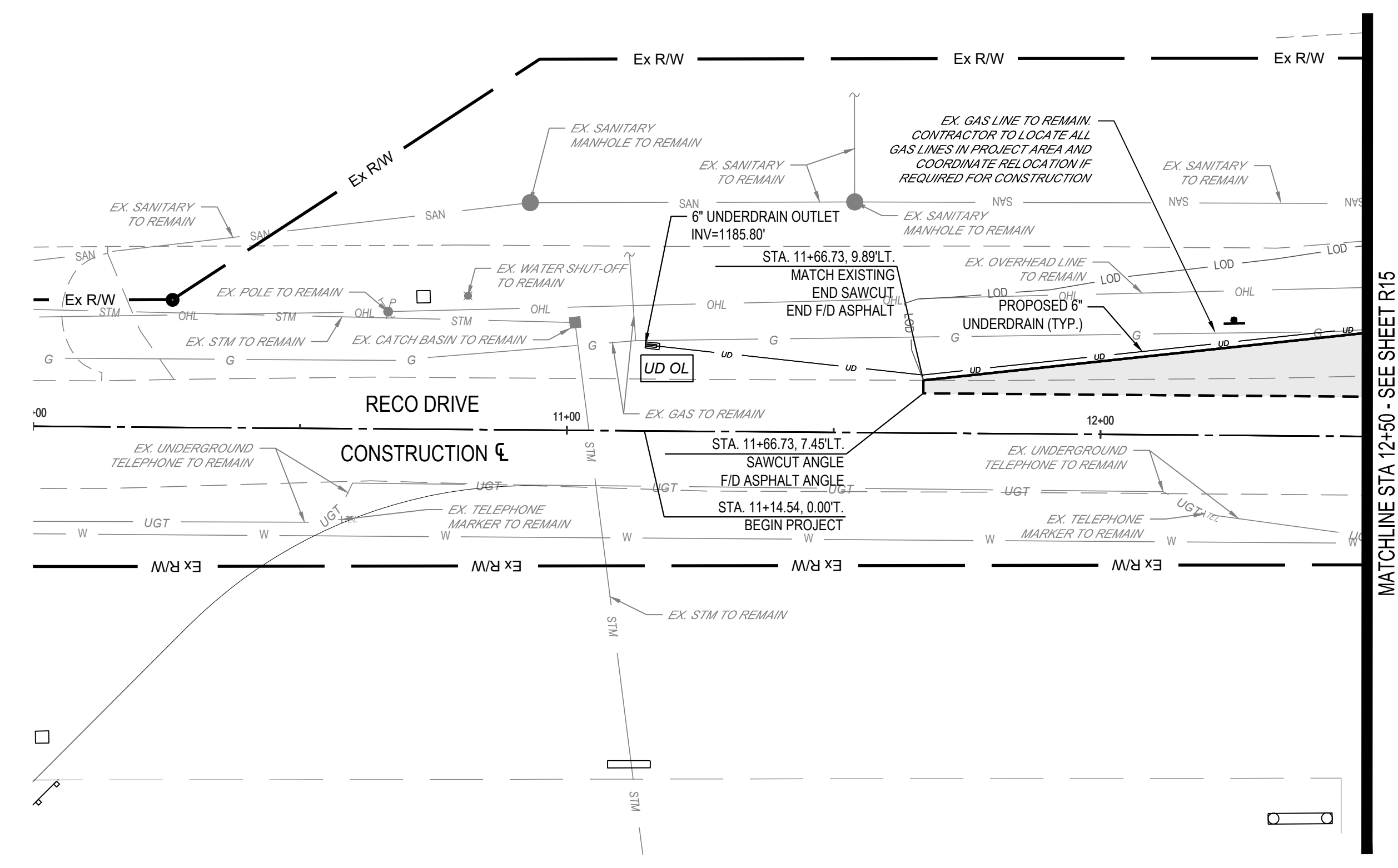


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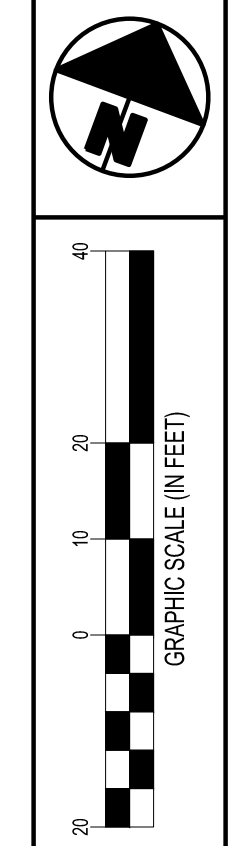
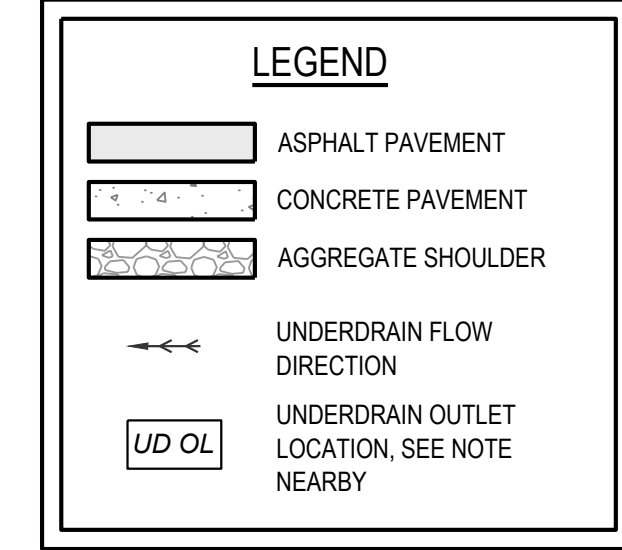
BEL-149-23.44

R15
R31

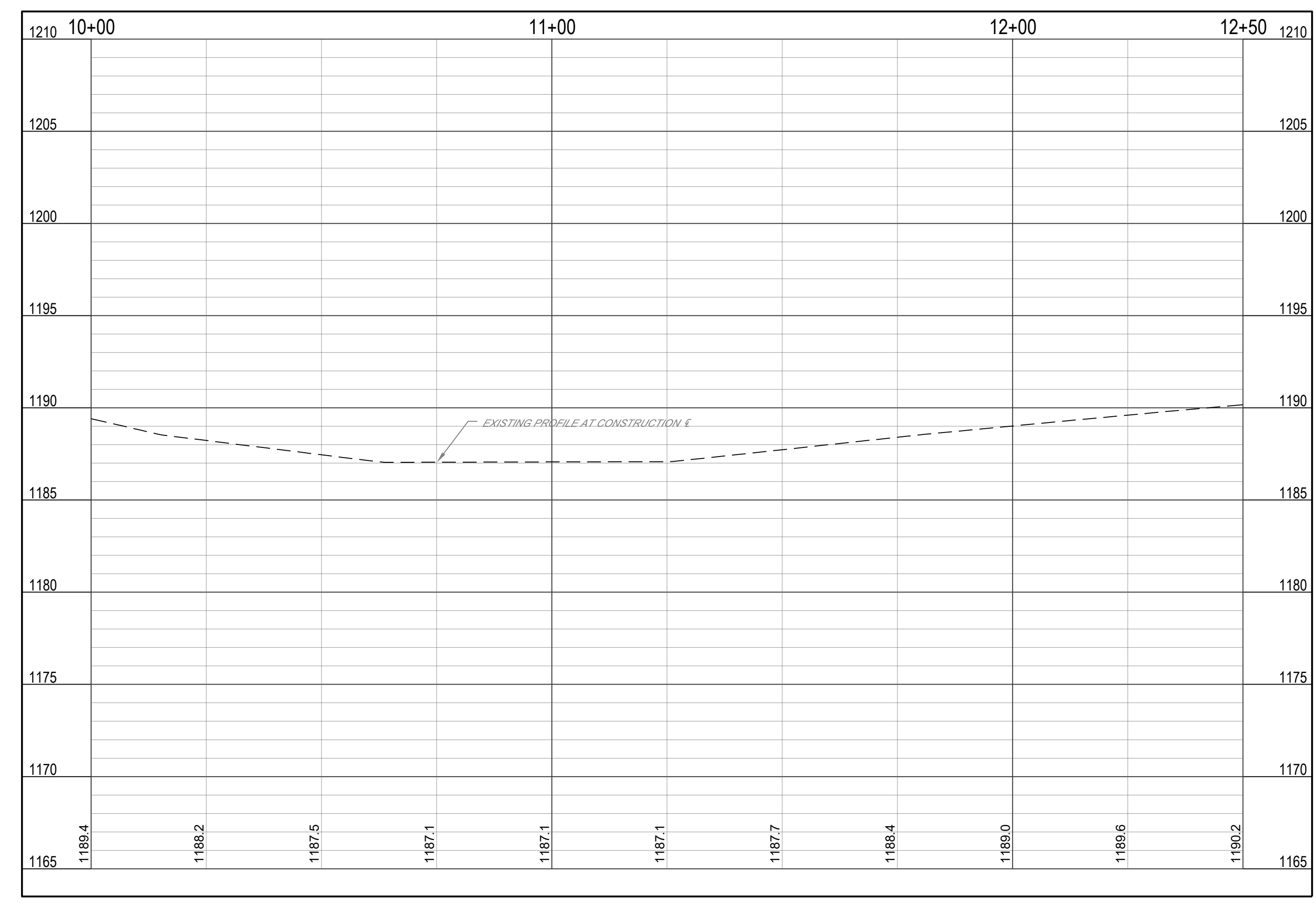
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 - REFER TO CROSS SECTION SHEETS R17-R25 FOR PROPOSED UNDERDRAIN INVERTS/ELEVATION.
 - STRIP TOPSOIL FOR ALL FILL REGIONS PRIOR TO CONSTRUCTION. ODOT ITEM 203 EMBANKMENT WILL REQUIRE COMPACTION TESTING.
 - PROVIDE PRECAST REINFORCED CONCRETE OUTLETS FOR UNDERDRAINS PER ODOT STD. DWG. DM-1.1.
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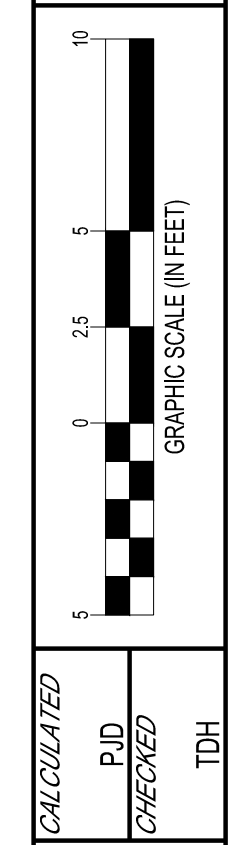
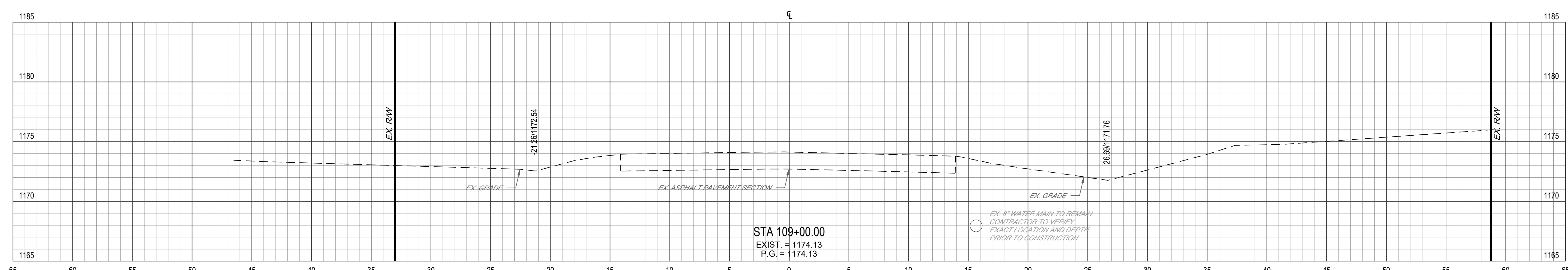
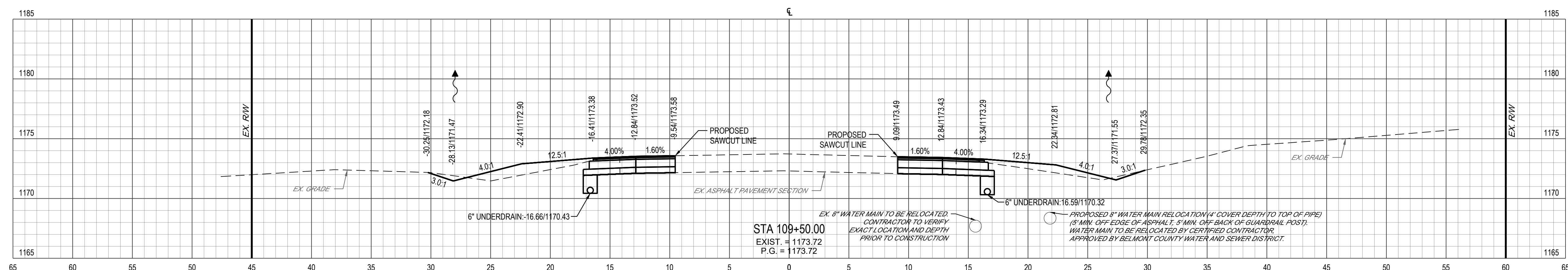
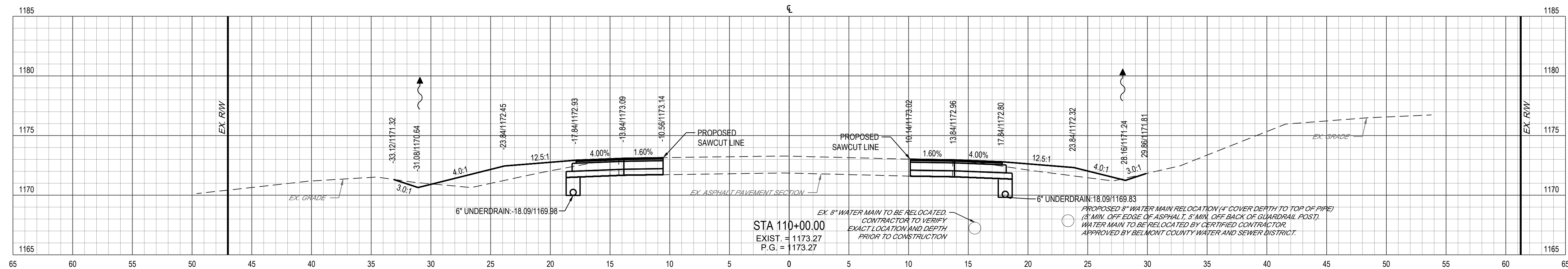
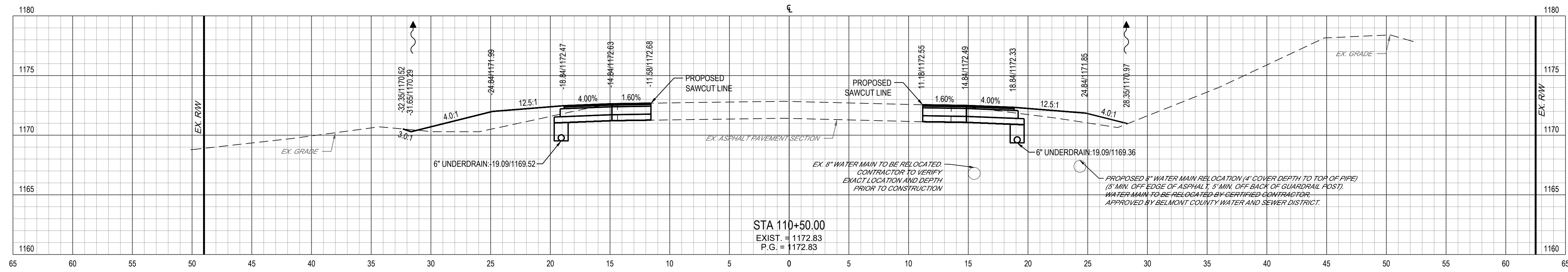


PLAN & PROFILE - RECO DRIVE
S.R. 149

BEL-149-23.44

R16
R31

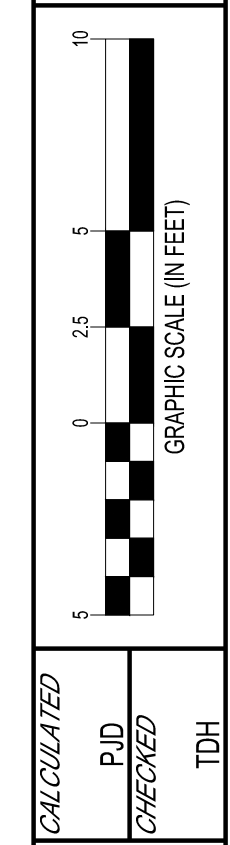
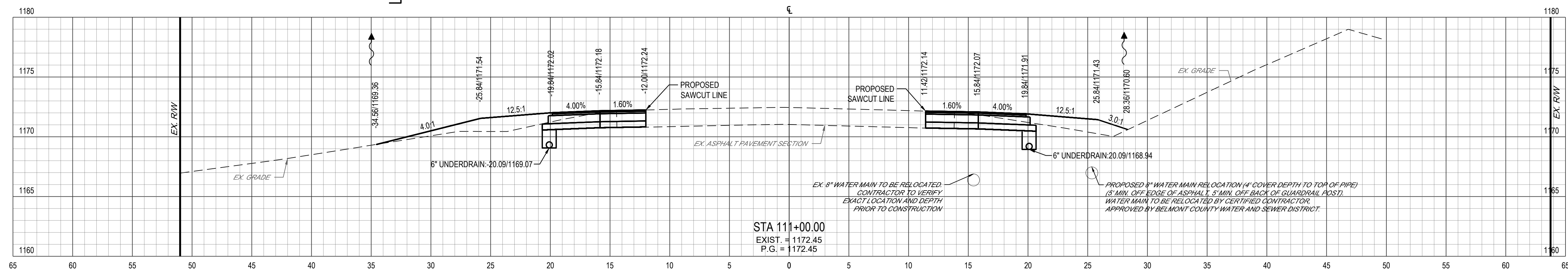
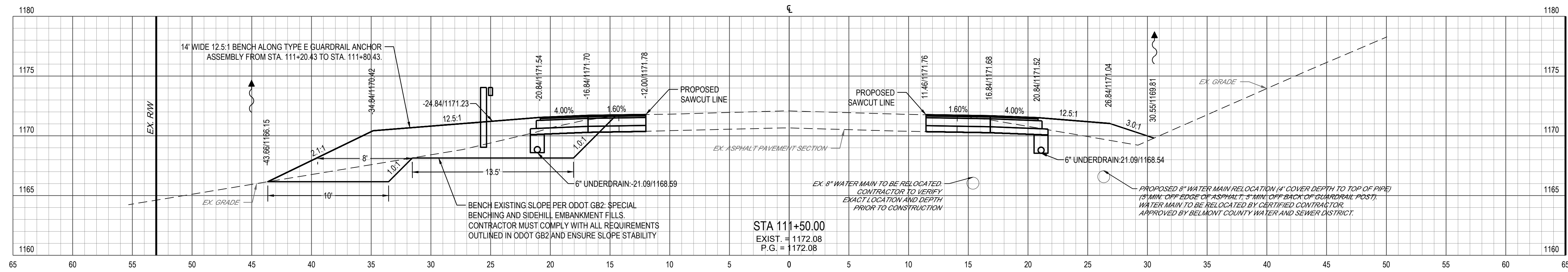
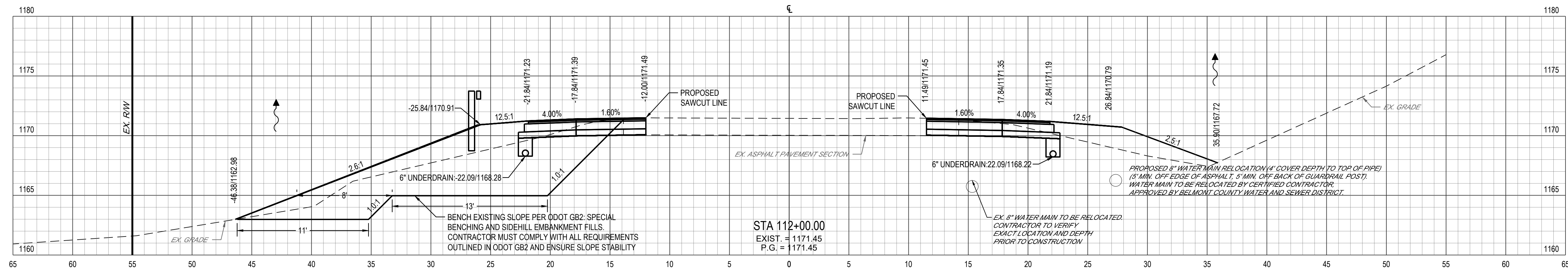
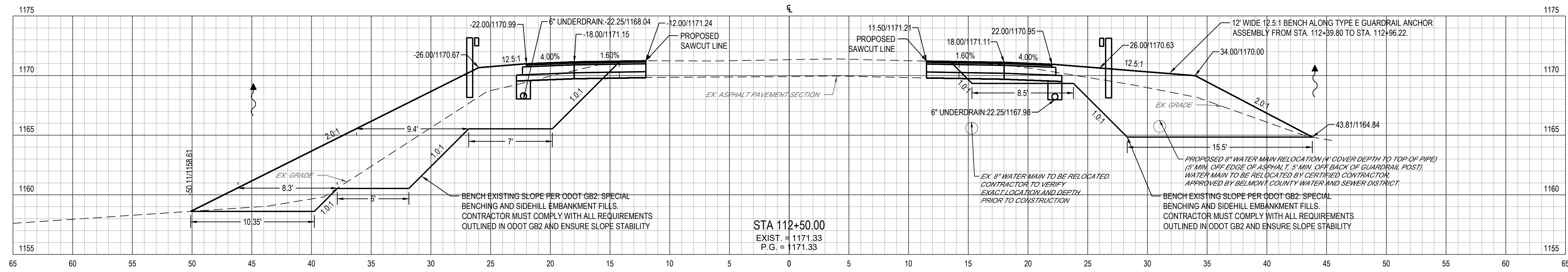
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CROSS SECTIONS - STA. 109+00 TO STA. 110+50
 S.R. 149

BEL-149-23.44

R17
R31

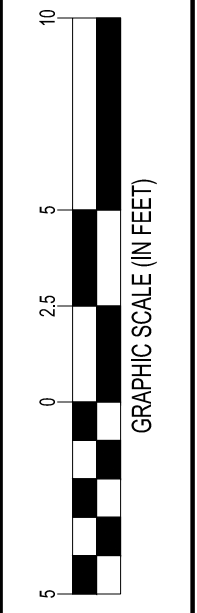
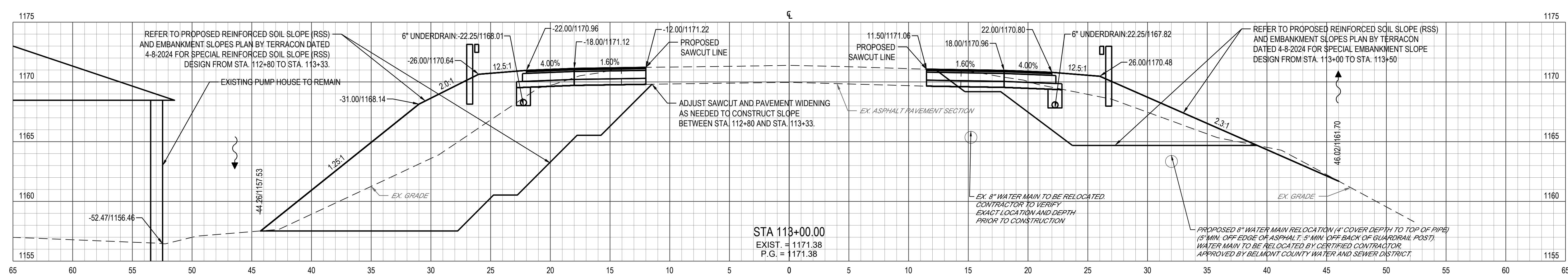
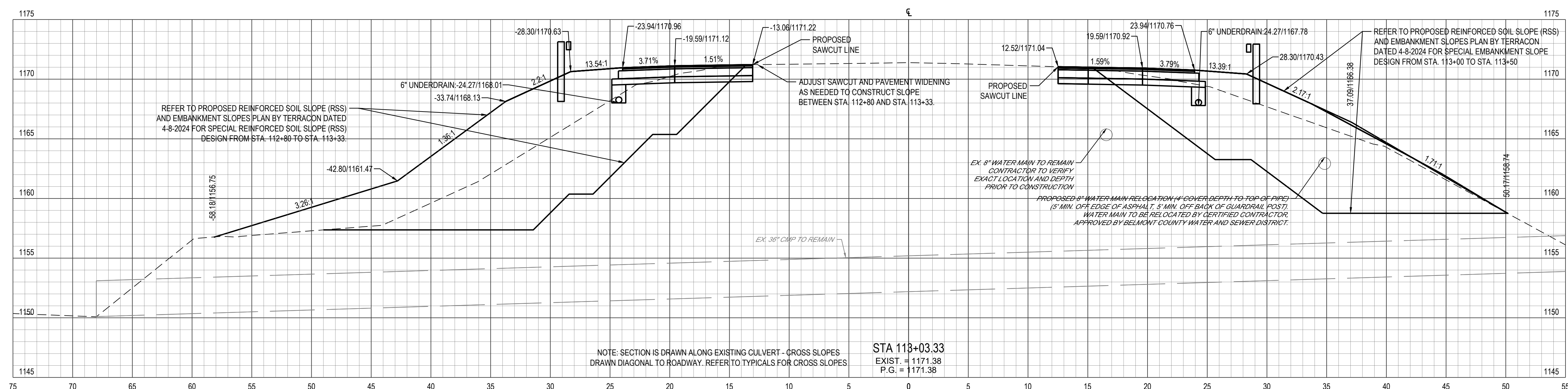
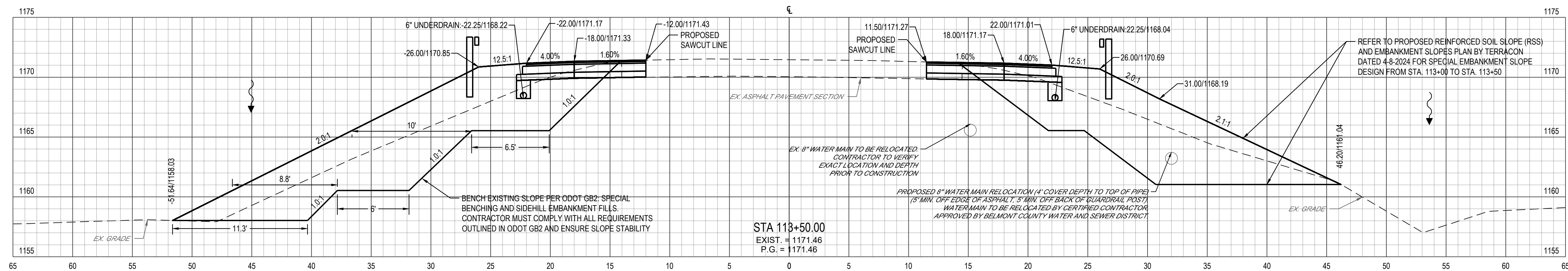
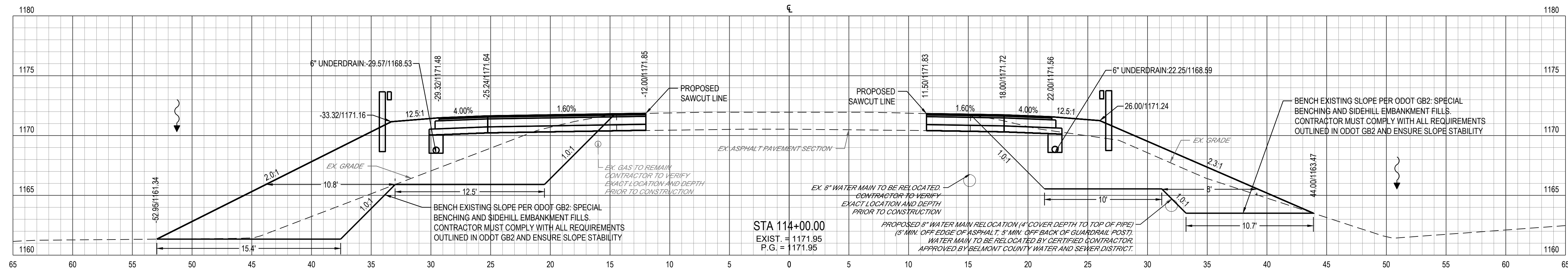


CALCULATED
 P.I.D.
 CHECKED
 TDH

CROSS SECTIONS - STA. 111+00 TO STA. 112+50
 S.R. 149

BEL-149-23.44

R18
 R31



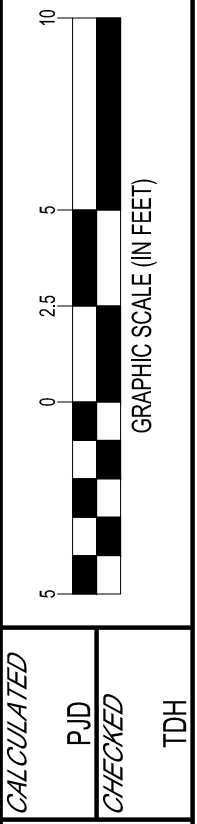
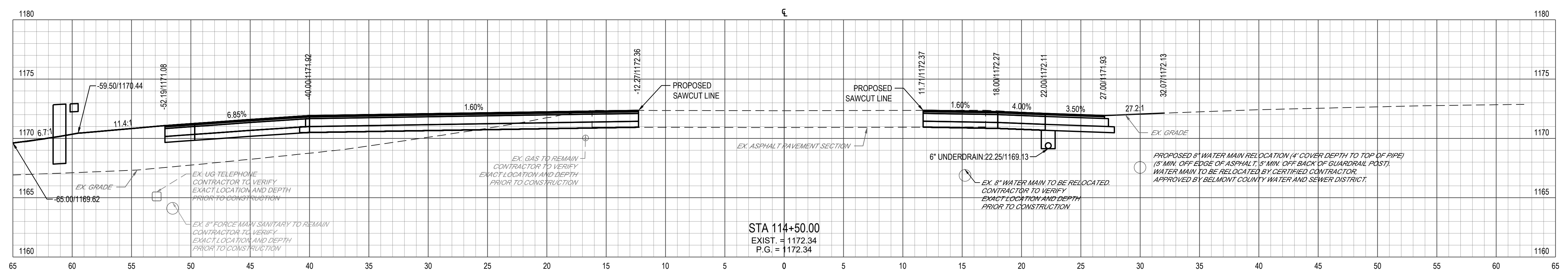
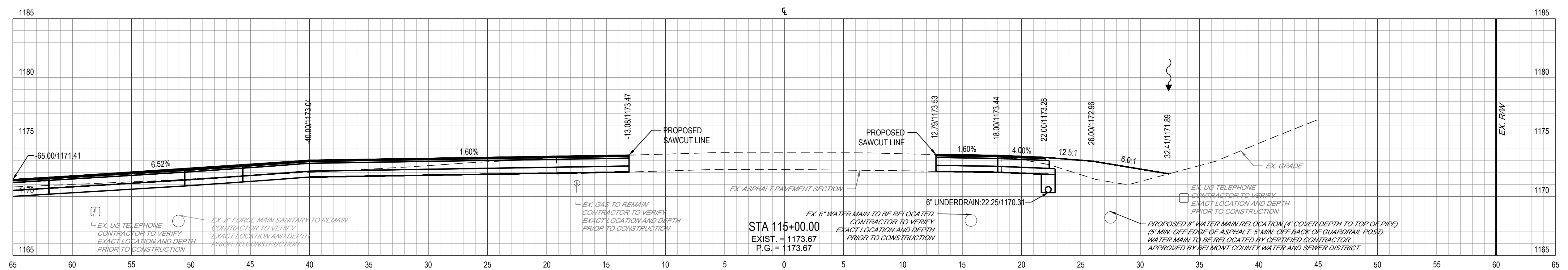
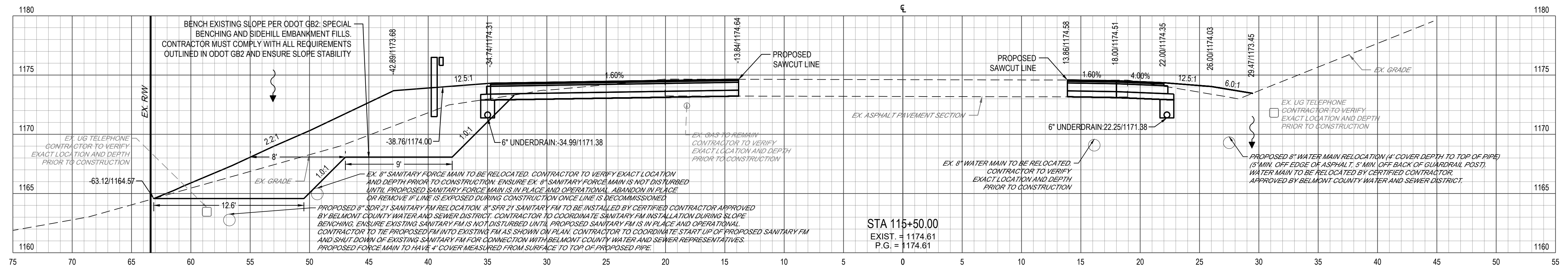
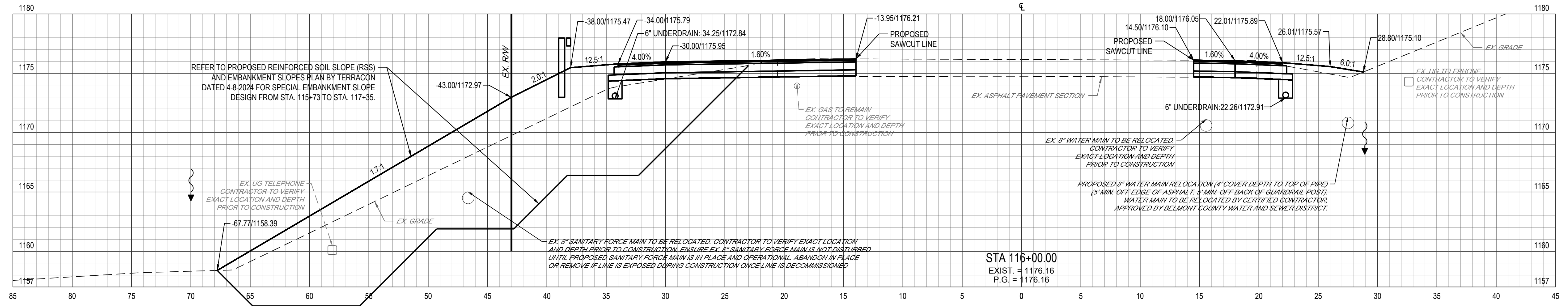
CALCULATED
P.I.D.
CHECKED
TDH

CROSS SECTIONS - STA. 113+00 TO STA. 114+00
S.R. 149

BEL-149-23.44

R19
R31

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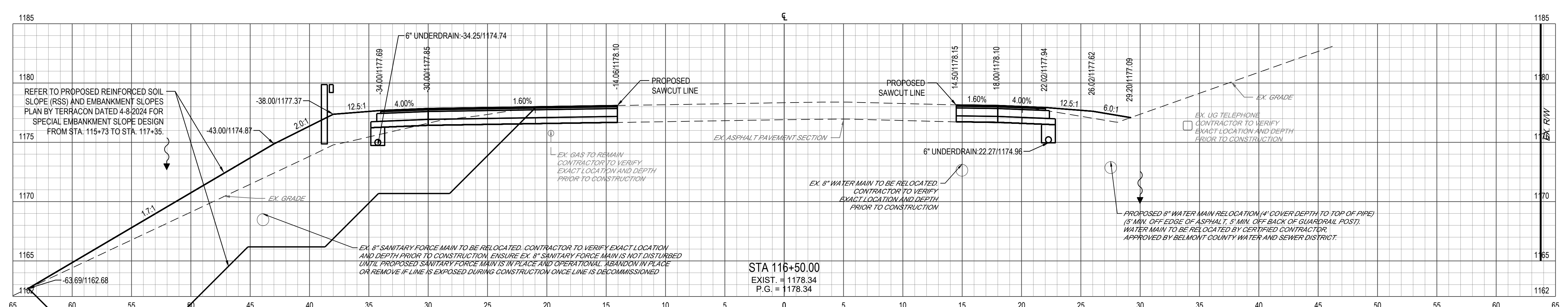
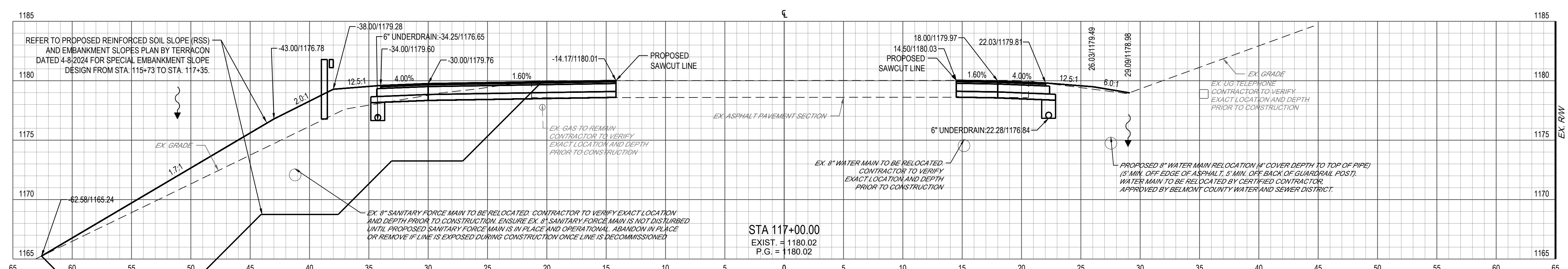
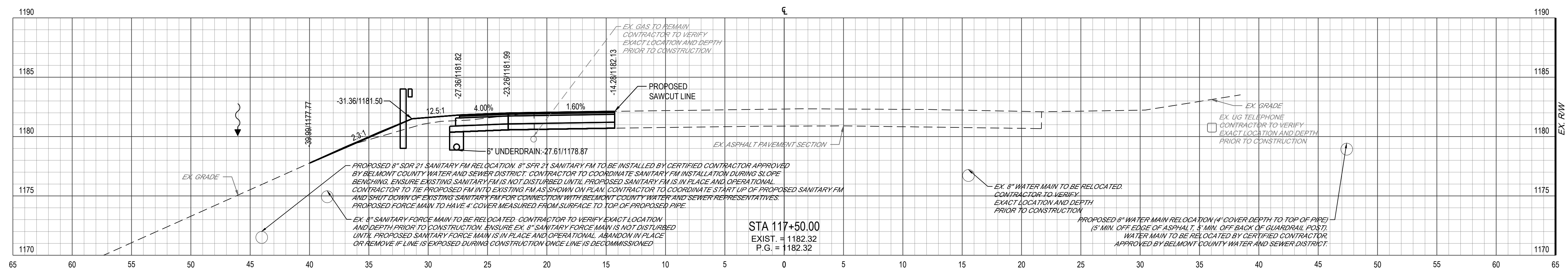
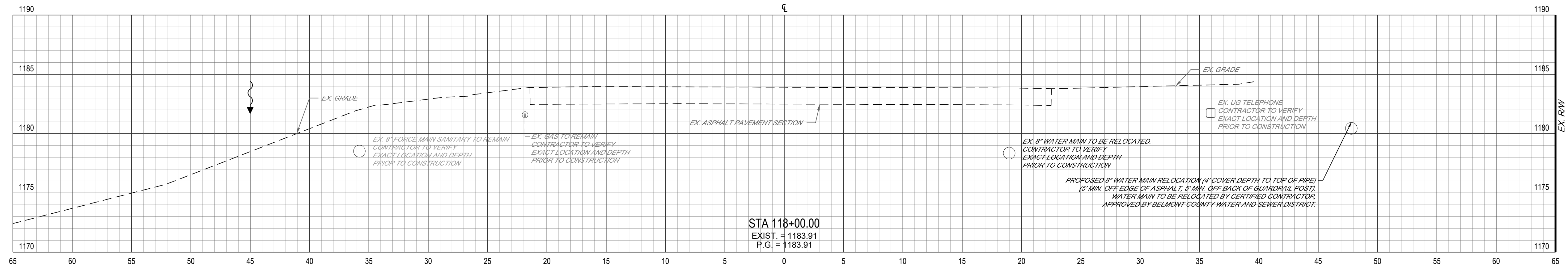


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TDH

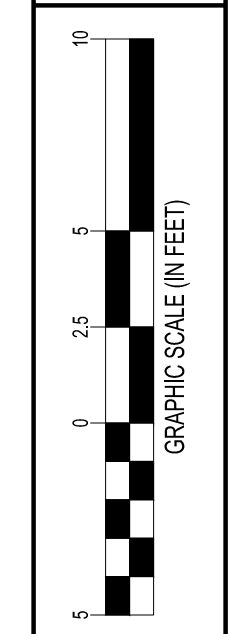
CROSS SECTIONS - STA. 114+50 TO STA. 116+00
S.R. 149

BEL-149-23.44

R20
R31



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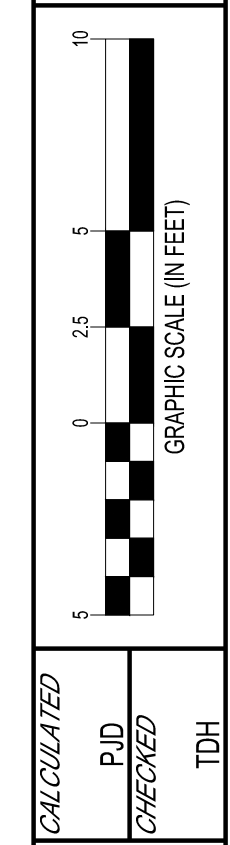
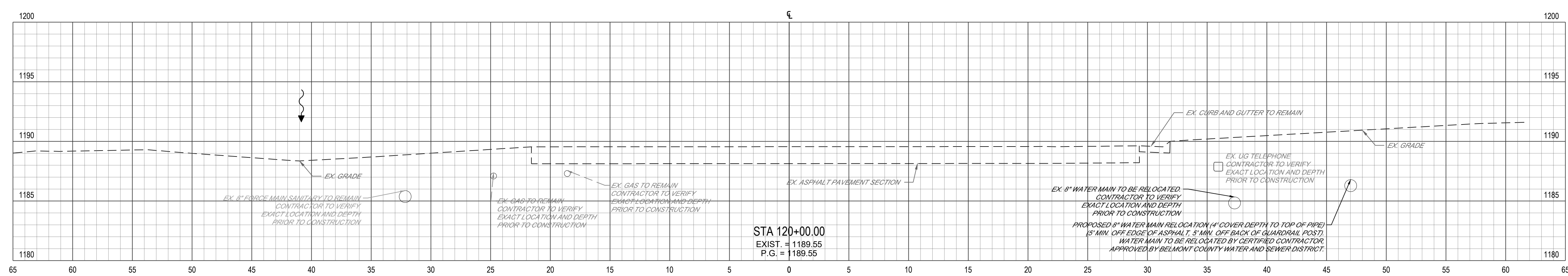
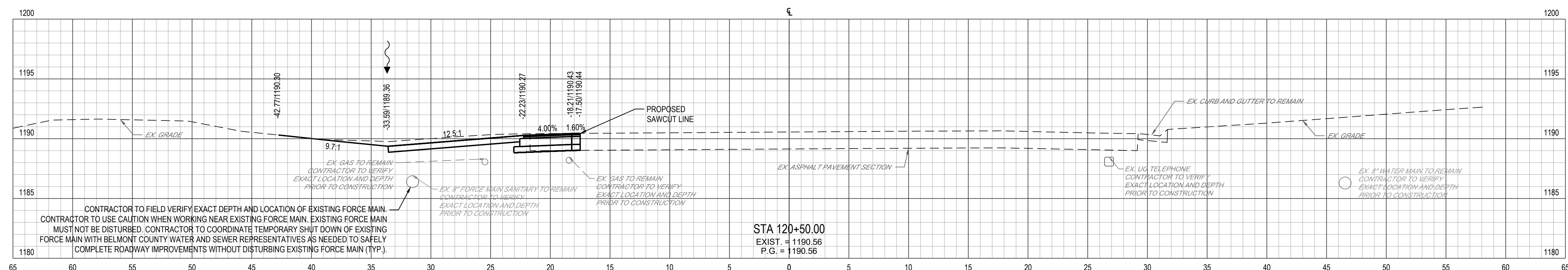
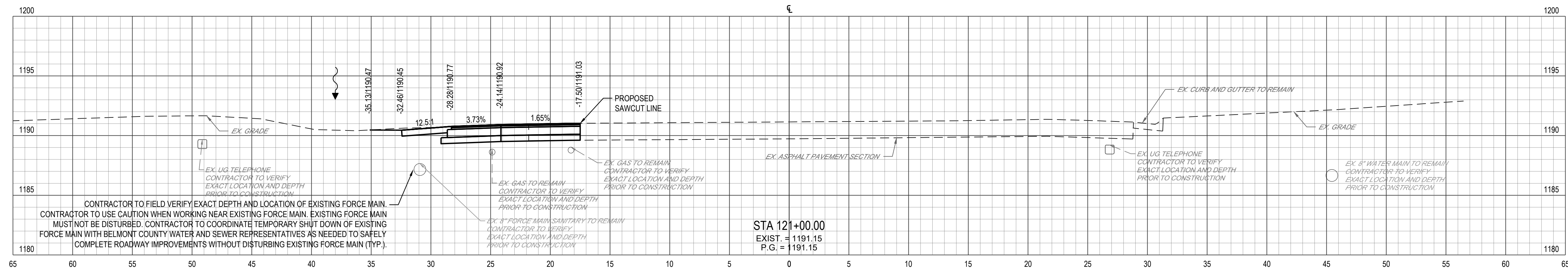
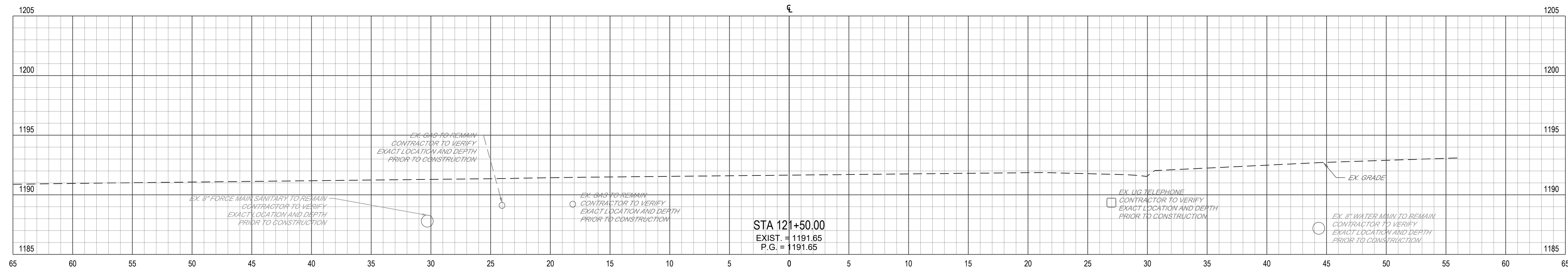


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T.D.H.

CROSS SECTIONS - STA. 116+50 TO STA. 118+00
S.R. 149

BEL-149-23.44

R21
R31



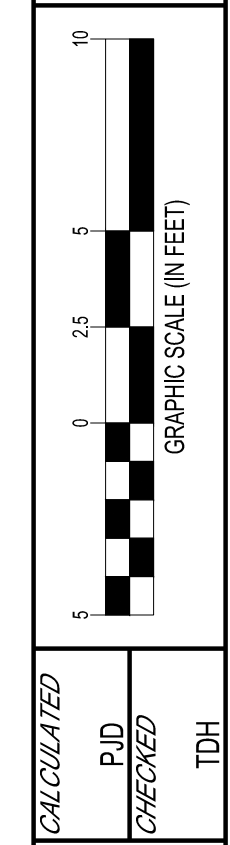
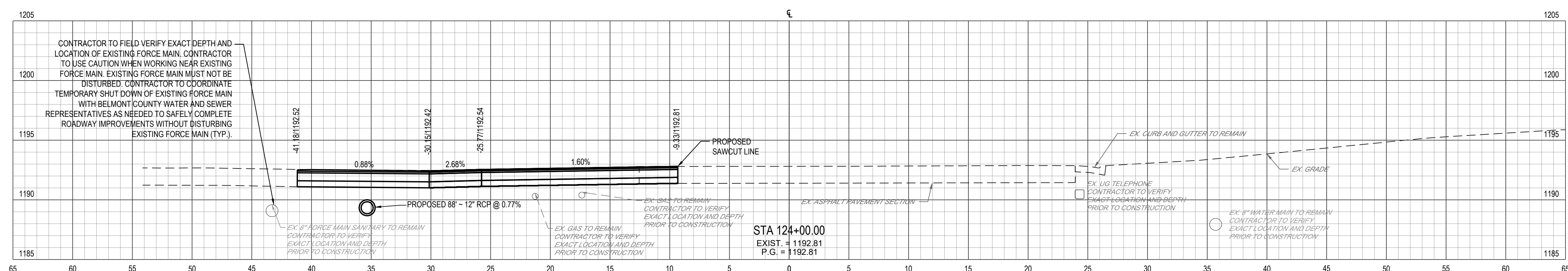
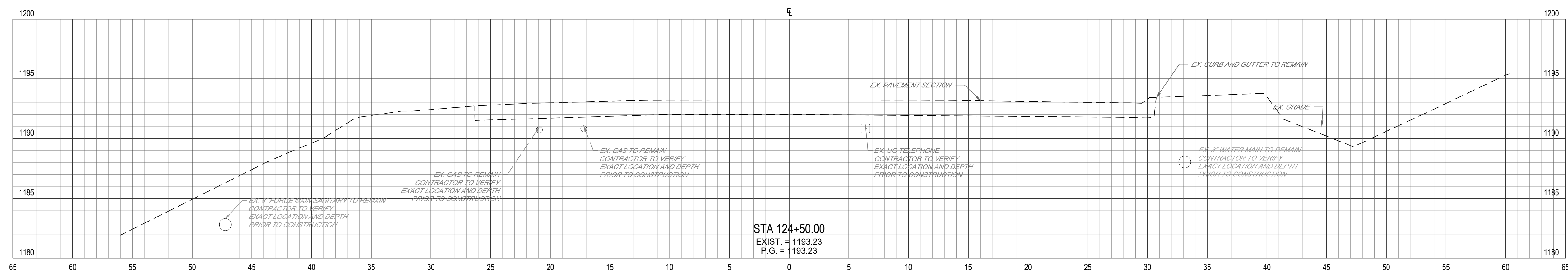
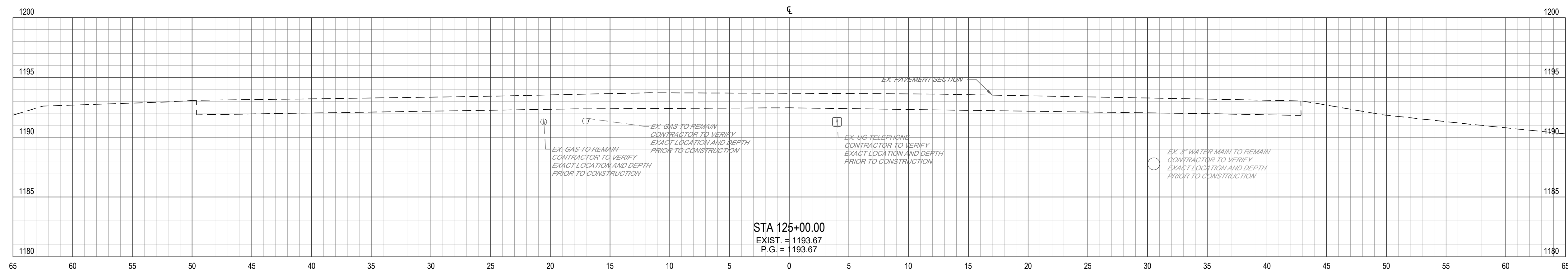
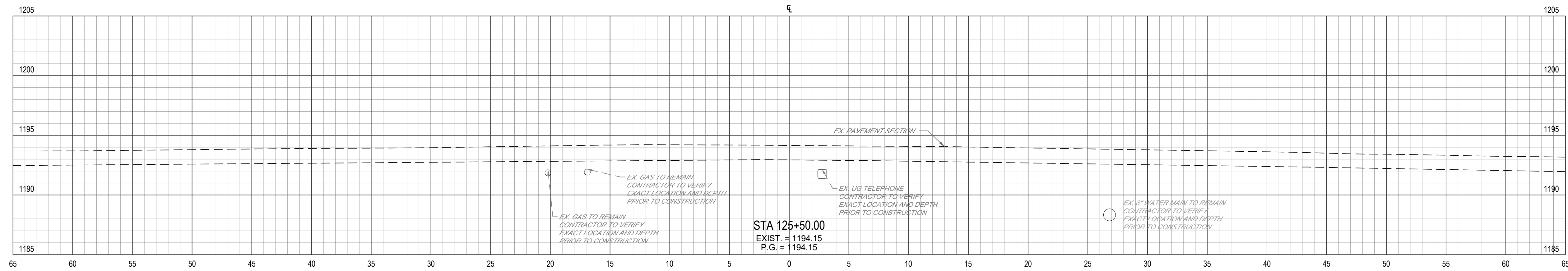
CROSS SECTIONS - STA. 120+00 TO STA. 121+50
 S.R. 149

BEL-149-23.44

R22
R31

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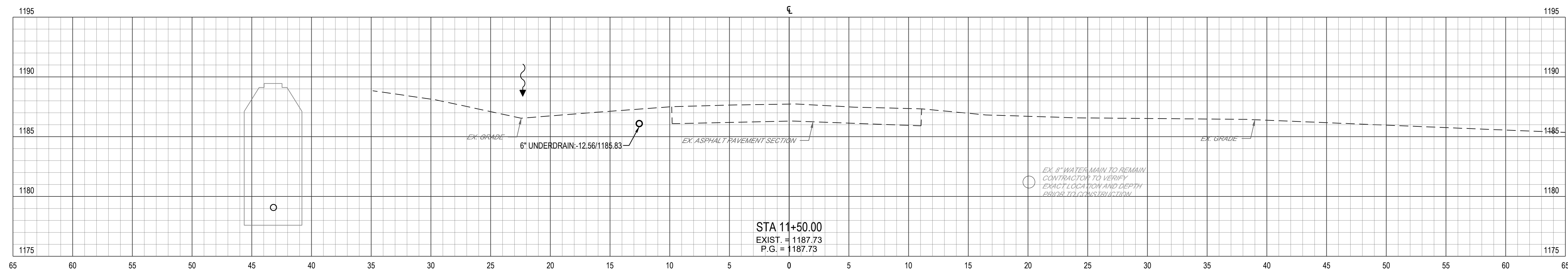
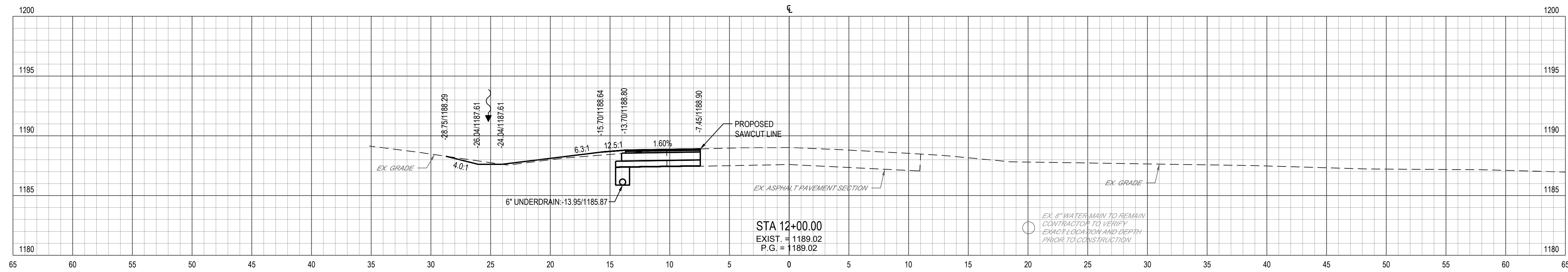
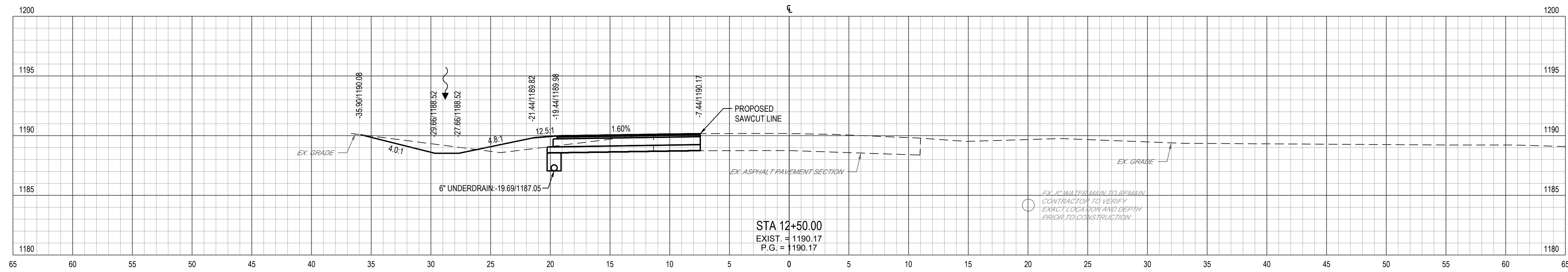
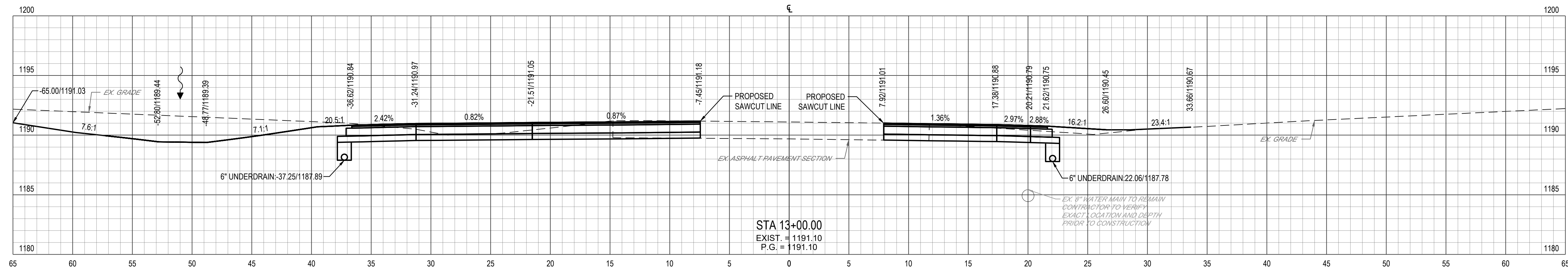


CROSS SECTIONS - STA. 124+00 TO STA. 125+50
S.R. 149

BEL-149-23.44

R24
R31

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GRAPHIC SCALE (IN FEET)

0 2.5 5 10

CROSS SECTIONS - STA. 11+50 TO STA. 13+00
 RECO DRIVE

BEL-149-23.44

R25
 R31