

PROJECT LOCATION PLAN
SCALE: 1" = 1000'

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HWY-07	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 55+00 TO 66+32
PRO-01 - PRO-10	MULTI-USE PATHWAY PROFILES
XSC-01 - XSC-08	CRITICAL CROSS SECTIONS

TOWN OF LEDYARD, CT

COLONEL LEDYARD HIGHWAY MULTI-USE PATHWAY

PRELIMINARY PLANNING AND DESIGN IMPROVEMENTS



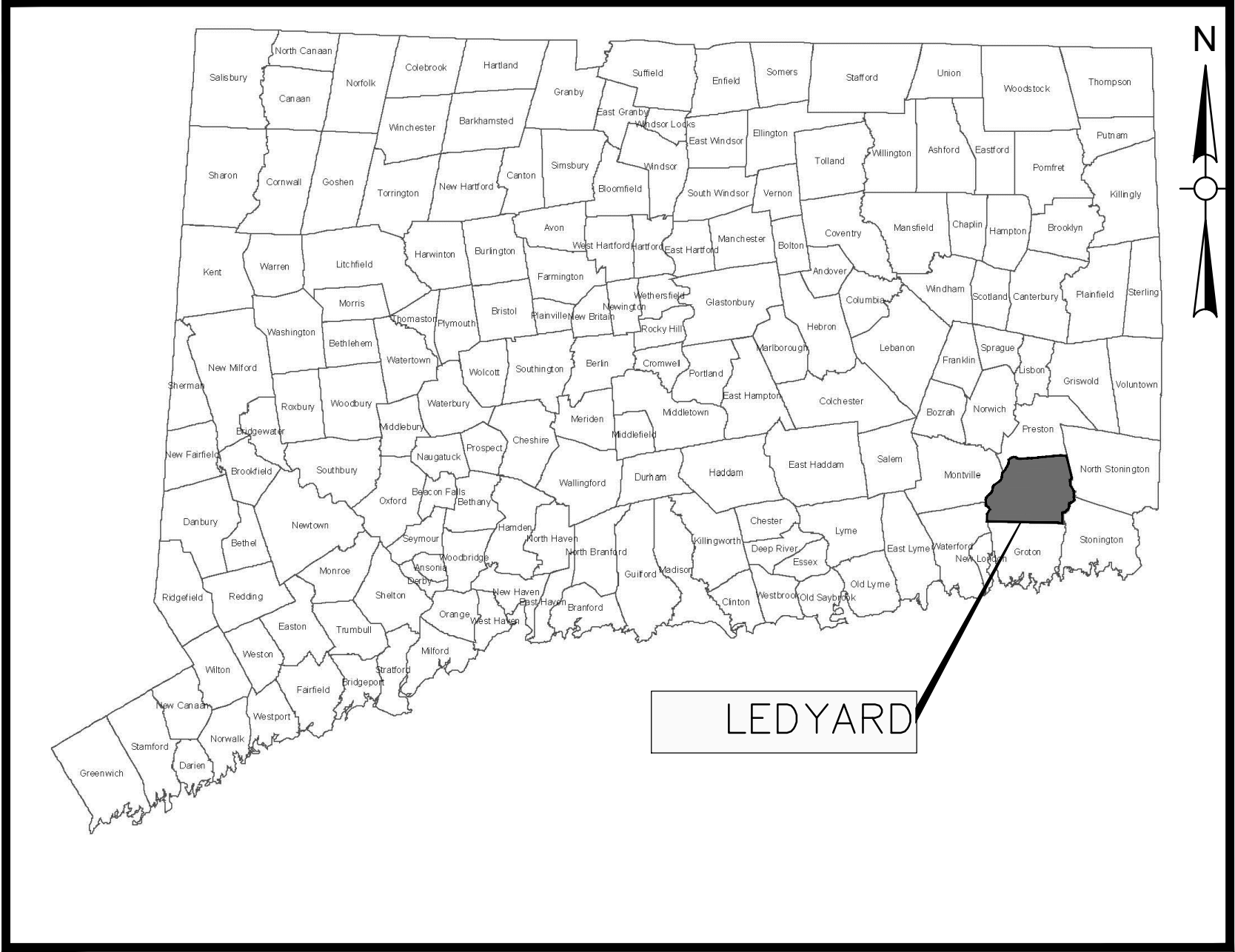
FRED ALLYN, III
MAYOR

STEVE MASALIN, P.E.
DIRECTOR OF PUBLIC WORKS

JOSEPH TILLMANN
HIGHWAY SUPERINTENDENT

COLONEL LEDYARD HIGHWAY MULTI-USE PATHWAY (STA: 10+00 TO 66+32)

FOR PERMITTING ONLY



TOWN LOCATION MAP
SCALE: N.T.S.

PROJECT SPECIFICATIONS:
CONNECTICUT DEPARTMENT OF
TRANSPORTATION, STANDARD SPECIFICATIONS
FOR ROADS, BRIDGES, FACILITIES AND
INCIDENTAL CONSTRUCTION, FORM 818, DATED
2020; AND SPECIAL PROVISIONS

SURVEY INFORMATION DERIVED FROM:
WESTON & SAMPSON LAND SURVEYORS, INC.

VERTICAL DATUM - NAVD88
HORIZONTAL DATUM - NAD83

DESIGNED BY:
WESTON & SAMPSON ENGINEERS, INC.
712 BROOK STREET, SUITE 103
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CT. LIC. NO. XXXXX
MARCH 15, 2019

JUNE 2022



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Issued For:

NOT RELEASED FOR CONSTRUCTION

CONSTRUCTION NOTES:

GENERAL:

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF THESE DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. THE CONTRACTOR SHALL PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. FENCES, MAIL BOXES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE PAID FOR UNDER CLEARING AND GRUBBING.
5. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE TOWN. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
7. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
8. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
9. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER.
10. WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS AND REPLACED WITH GRANULAR FILL, UNLESS OTHERWISE SPECIFIED.
11. DURING THE PROCESS OF WORK, THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE AREA OF CONSTRUCTION ACTIVITIES, INCLUDING SWEEPING AND WATER FOR DUST CONTROL AS NECESSARY, TO MINIMIZE CREATION AND DISPERSION OF DUST.
12. WHERE EXISTING FENCES ARE TO BE REMOVED AND RESET, A TEMPORARY CONSTRUCTION FENCE SHALL BE ERECTED AFTER REMOVAL FOR THE PROTECTION OF THE RESIDENTS. TEMPORARY CONSTRUCTION FENCES SHALL BE PAID FOR UNDER CLEARING AND GRUBBING.
13. ALL HIGHWAY LINE MONUMENTATION WITHIN THE PROJECT LIMITS MUST BE DELINEATED AND PROTECTED FROM DAMAGE OR MOVEMENT. ANY COST ASSOCIATED WITH RESETTING OF THE MONUMENTATION SHALL BE AT THE CONTRACTOR'S EXPENSE IF DISTURBED BY CONTRACTOR.
14. THE CONTRACTOR SHALL COMPLETE ALL LAYOUTS, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.
15. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PROPER STORM DRAINAGE AND SANITARY FLOWS ARE MAINTAINED THROUGHOUT THE CONSTRUCTION DURATION.
16. ALL PROPOSED MANHOLES, MANHOLE COVERS AND FRAMES, CATCH

BASINS, AND CATCH BASIN GRATES AND FRAMES SHALL CONFORM TO THE REQUIREMENTS AS SHOWN IN THE CONTRACT PLANS AND DOCUMENTS.

17. REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
18. ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.

WORK RESTRICTIONS:

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
2. NO WORK WILL BE ALLOWED TO BE PERFORMED ON SUNDAY AND ON ALL TOWN HOLIDAYS WITHOUT TOWN AUTHORIZATION.
3. ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 AM TO 6:00 PM AND SATURDAY FROM 9:00 AM TO 5:00 PM UNLESS OTHERWISE AUTHORIZED BY THE TOWN. TOWN MUST BE NOTIFIED AT LEAST 24-HOURS IN ADVANCE OF ANY WORK ON SATURDAY.

REGULATORY REQUIREMENTS:

1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS AS SUPPLEMENTED BY THE TECHNICAL SPECIFICATIONS INCLUDED IN THIS CONTRACT.
2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

EROSION AND SEDIMENT CONTROL:

1. THE CONTRACTOR SHALL INSTALL SPECIFIED EROSION AND CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
2. CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING INLET PROTECTION FOR EXISTING AND PROPOSED CATCH BASINS, IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MOST RECENT EDITION OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (CT DEEP BULLETIN 34). ALL MEASURES SHALL BE MAINTAINED AND UPGRADED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
3. REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS AND DETAILS.
4. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
5. EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO BE CLEANED AND FLUSHED WHERE INDICATED ON THE PLANS AND SHALL BE PAID FOR BY

"CLEAN EXISTING DRAINAGE SYSTEM".

6. INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER MAJOR RAINFALL EVENTS, DISPOSE OF SEDIMENT IN AN UPLAND AREA, DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
7. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

UTILITIES:

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CBYD PROJECT REFERENCE NUMBER(S) SHALL BE PROVIDED WHEN COMPLETING THE HIGHWAY PERMIT APPLICATION. EXCAVATION SHALL COMMENCE ONCE A HIGHWAY PERMIT IS RECEIVED BY THE CONTRACTOR.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM "TEST PIT".
4. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
5. THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
7. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH WITH FINAL GRADES.
8. EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.

SURVEY NOTES:

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20 AS AMENDED, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. THE TYPE OF SURVEY IS AN EXISTING CONDITIONS SURVEY, NO BOUNDARY DETERMINATION / OPINION HAS BEEN DEVELOPED. THIS SURVEY CONFORMS TO THE FOLLOWING ACCURACY CLASSES: HORIZONTAL CLASS A-2, TOPOGRAPHIC CLASS T-3, AND VERTICAL CLASS V-3.
2. PROPERTY LINES AND RIGHT OF WAY LINES DEPICTED, WERE DEVELOPED VIA GIS AND TAX MAPS AND ARE APPROXIMATE ONLY.
3. ELEVATIONS AND CONTOURS AS DEPICTED HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) AS ESTABLISHED USING GPS SURVEY METHODS IN MARCH, 2021.
4. SURVEY PERFORMED BY WESTON & SAMPSON LAND SURVEYORS, INC. IN MARCH, 2021.
5. THE UTILITIES AS DEPICTED HEREON ARE BASED UPON OBSERVED EVIDENCE AT THE TIME OF THE FIELD SURVEY. NO ATTEMPT WAS MADE TO VERIFY THE LOCATIONS AND NO MAPPING WAS OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG.

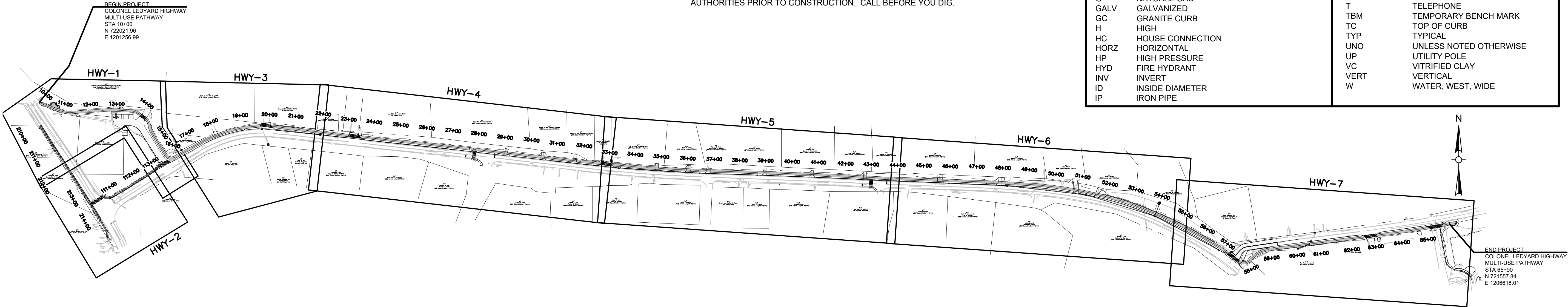
LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER			FENCE		
WATER MAIN			INDIVIDUAL DECIDUOUS TREE		
STORM DRAIN			INDIVIDUAL EVERGREEN TREE		
ELECTRIC			TREE LINE		
TELEPHONE			BUSH		
SANITARY SEWER LATERAL			STUMP		
WATER SERVICE			SURVEY MARKER		
SANITARY SEWER MANHOLE			PROPERTY LINE		
STORM DRAIN MANHOLE			EASEMENT LINE		
ELECTRICAL MANHOLE			SPOT ELEVATIONS		
TELEPHONE MANHOLE			CONTOUR LINES		
CATCH BASIN			DEPRESSION CONTOUR LINES		
HYDRANT			HOUSE NUMBER		
WATER GATE			FLOOR ELEVATION		
SPRINKLER HEAD			SILL ELEVATION		
UTILITY POLE			WETLAND		
GUY POLE			WETLAND FLAGS		
GUY WIRE			GRASS PAVERS		
OVERHEAD WIRE			GUIDE RAIL		
LIGHT POST			POST		
EDGE OF PAVEMENT			SIGN		
EDGE OF UNPAVED ROAD			BENCH MARK		
SAFETY EDGE			TEST PIT		
BERM			BORING		
SIDEWALK			DRAINAGE DITCH / SWALE		
BOULDER			MAILBOX		
STONE WALL			FENCE		
RETAINING WALL					

ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	LF	LINEAR FEET
BC	BITUMINOUS CONCRETE, BOTTOM OF CURB	LS	LUMP SUM
BIT	BITUMINOUS	MAX	MAXIMUM
BLDG	BUILDING	MB	MAIL BOX
BM	BENCH MARK	MECH	MECHANICAL
CATV	CABLE TELEVISION	MH	MANHOLE
CB	CATCH BASIN	MIN	MINIMUM
CC	CONCRETE CURB	MISC	MISCELLANEOUS
CI	CAST IRON	N	NORTH
CL	CENTERLINE	NF	NOT FOUND
CMP	CORRUGATED METAL PIPE	NO OR #	NUMBER
CONC	CONCRETE	PE	POLYETHYLENE
CP	CONTROL POINT	R	PROPERTY LINE
CU FT	CUBIC FEET	PVC	POLYVINYL CHLORIDE
CY	CUBIC YARD	PR	PROPOSED
DI	DROP INLET, DUCTILE IRON	PVMT	PAVEMENT
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE	ROW	RIGHT-OF-WAY
E	ELECTRIC, EAST	S	SEWER, SOUTH
EA	EACH	SF	SQUARE FEET
EL	ELEVATION	SPEC	SPECIFICATIONS
EOP	EDGE OF PAVEMENT	SQ FT	SQUARE FEET
EW	EACH WAY	SS	SEWER SERVICE
EX	EXISTING	STA	STATION
FT	FEET, FOOT	SW	SIDEWALK
G	NATURAL GAS	T	TELEPHONE
GALV	GALVANIZED	TBM	TEMPORARY BENCH MARK
GC	GRANITE CURB	TC	TOP OF CURB
H	HIGH	TYP	TYPICAL
HC	HOUSE CONNECTION	UNO	UNLESS NOTED OTHERWISE
HORZ	HORIZONTAL	UP	UTILITY POLE
HP	HIGH PRESSURE	VC	VITRIFIED CLAY
HYD	FIRE HYDRANT	VERT	VERTICAL
INV	INVERT	W	WATER, WEST, WIDE
ID	INSIDE DIAMETER		
IP	IRON PIPE		



INDEX PLAN - COLONEL LEDYARD HIGHWAY
MULTI-USE PATHWAY

SCALE 1"=200'

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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Consultants:

Revisions:

No.	Date	Description

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Drawn By: JW/G

Reviewed By: RC

Approved By: LAS

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INDEX PLAN,
LEGEND, AND
GENERAL NOTES

Sheet Number:

GEN-01

SEDIMENTATION AND EROSION CONTROL PLAN

GENERAL

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

REFERENCE IS MADE TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002), AS AMENDED. THE GUIDELINES ARE OBTAINABLE ONLINE FROM THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AT WWW.CT.GOV/DEEP AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E. SILT FENCE).

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES THAT ARE 2:1 OR STEEPER SHALL BE PROTECTED WITH EROSION CONTROL MATTING TYPE H. ALL OTHER AREAS SHALL BE MULCHED WITH HAY OR STRAW AS REQUIRED.

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM – THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF SILT FENCE.

GEOTEXTILE BARRIER FENCE – THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLAND AREAS, OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

RIPRAP – RIPRAP, IF REQUIRED OR SPECIFIED, IS TO BE INSTALLED AS ENERGY, DISSIPATION STRUCTURES. THE RIPRAP IS TO BE INSTALLED BEFORE OUTLET STRUCTURES ARE ACTIVATED, AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED IF IN SEASON OTHERWISE THE SOIL IS TO BE STABILIZED BY OTHER METHODS.

IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING SO AS TO PREVENT EROSION.

SEDIMENTATION AND EROSION CONTROL MAINTENANCE PROCEDURES

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A WEEKLY BASIS, AND FOLLOWING ALL STORMS, BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF THE REQUEST AND THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK.

THE CONTRACTOR SHALL PROVIDE ROUTINE SWEEPING OF ALL PAVED SURFACES SUBJECT TO SEDIMENT ACCUMULATION DURING CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, AND AS REQUESTED BY THE RESIDENT ENGINEER TO KEEP THE SYSTEM FUNCTIONING PROPERLY DURING CONSTRUCTION.

FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

TYPICAL CONSTRUCTION SEQUENCE

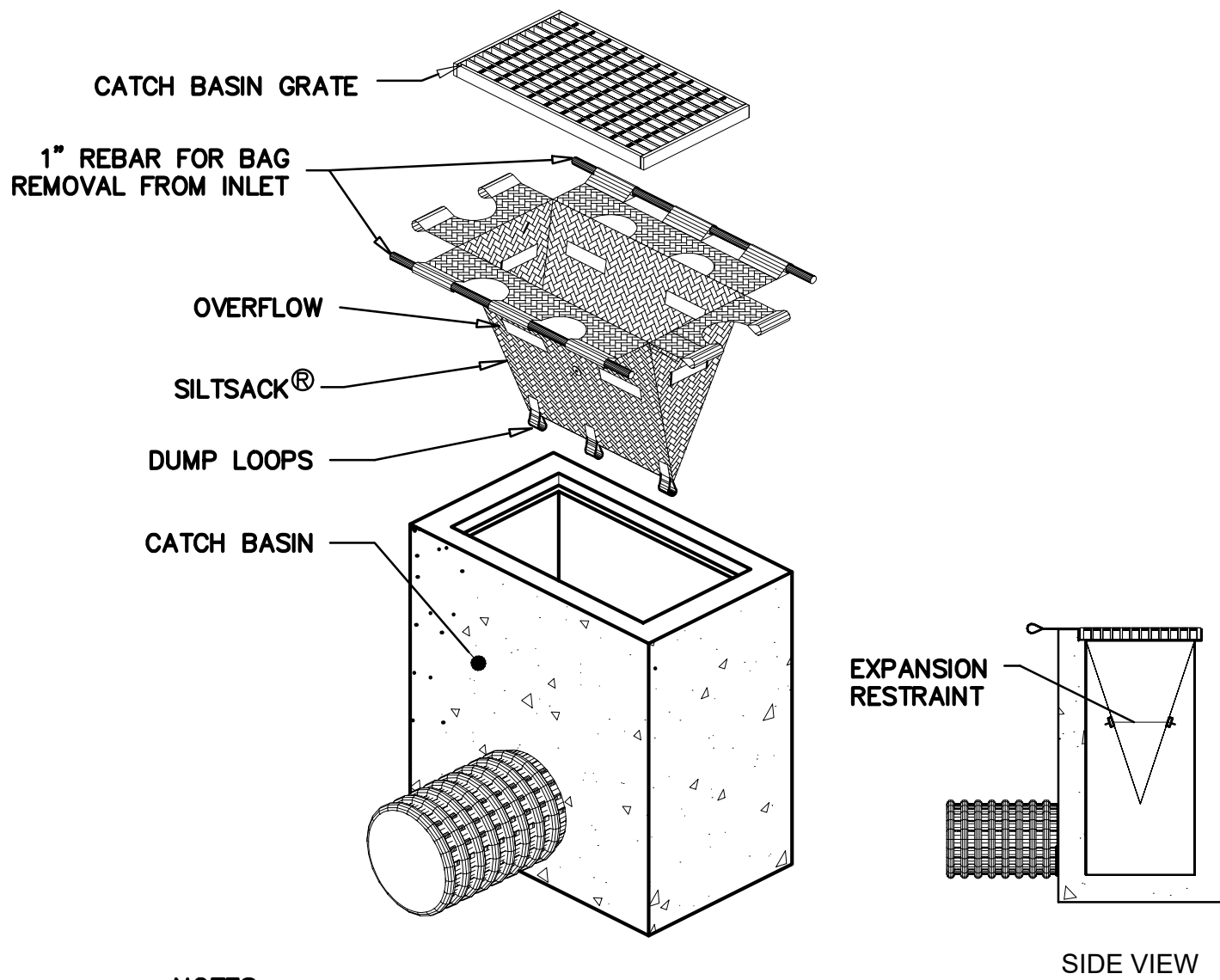
PRIOR TO COMMENCEMENT OF WORK, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED. A TYPICAL SEQUENCE OF CONSTRUCTION IS:

1. OBTAIN APPROPRIATE PERMITS, NOTIFY TOWN OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
2. ON-SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. THIS INCLUDES SILTATION FENCING, SILT CURTAIN, AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE ENGINEER AND WETLAND ENFORCEMENT OFFICER HAVE INSPECTED AND APPROVED INSTALLED MEASURES.

DURING CONSTRUCTION ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

A RAIN GAUGE SHALL BE PLACED AT THE PROJECT SITE IN A WORKABLE LOCATION AND MONITORED DURING RAINFALL PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED. IN THE EVENT THERE IS A RAINFALL GREATER THAN 1/2" IN A 12 HOUR PERIOD, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS REQUIRED. IF NO RAIN GAUGE IS USED, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AFTER ALL RAINFALL EVENTS.

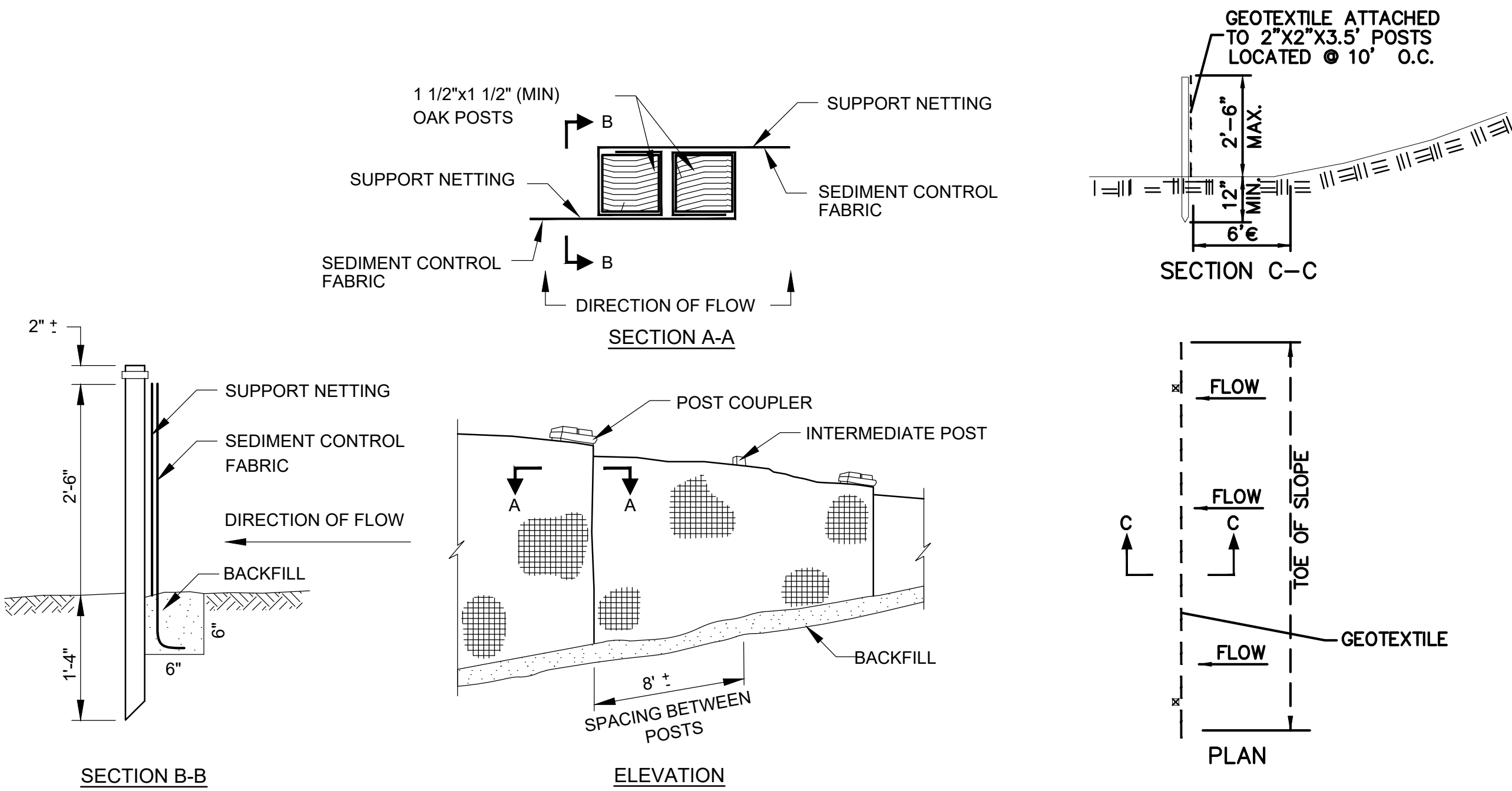
A CHECK LIST PROVIDED BY THE ENGINEER SHALL BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER.



- NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE "C-L" CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE "C" CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

CATCH BASIN INLET PROTECTION

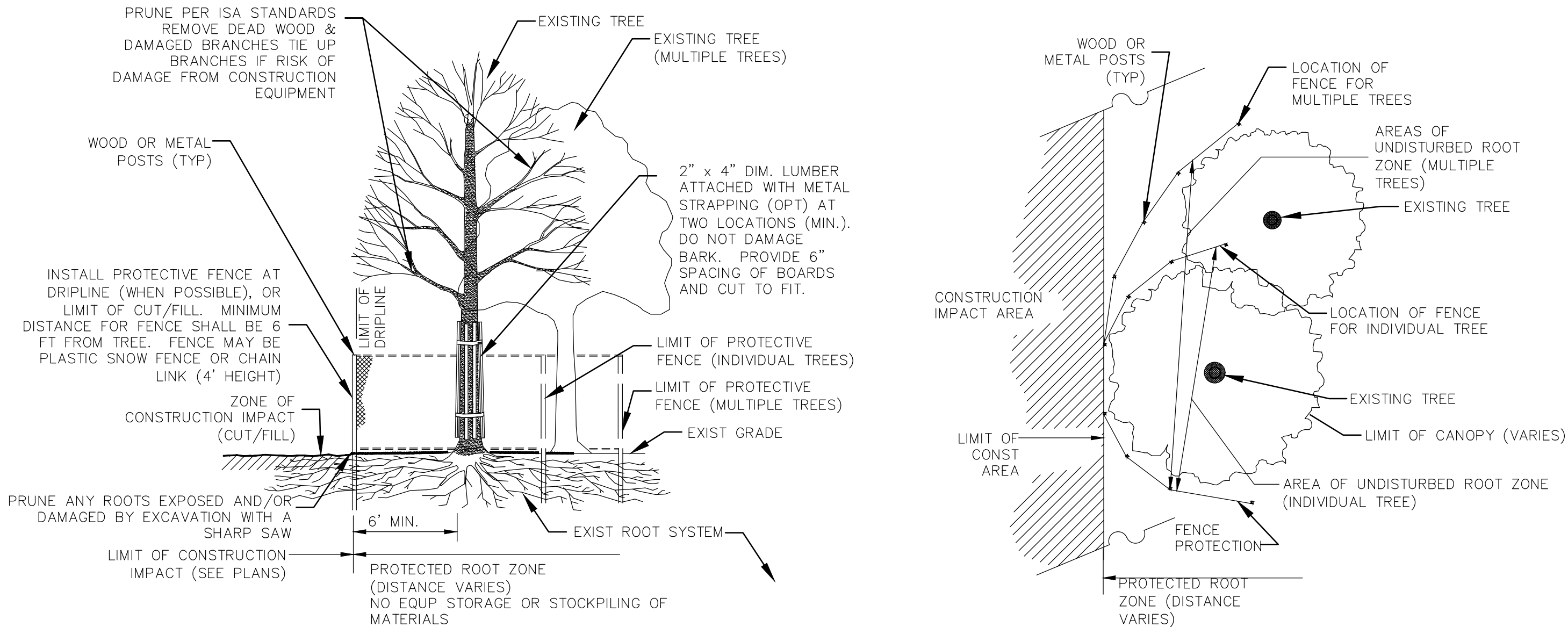
N.T.S.



SEDIMENTATION AND EROSION CONTROL DETAIL

(SILT FENCE)

N.T.S.



EXISTING TREE PROTECTION

N.T.S.

Project: TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

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Approved By: LAS

W&S Project No.: ENG20-1119

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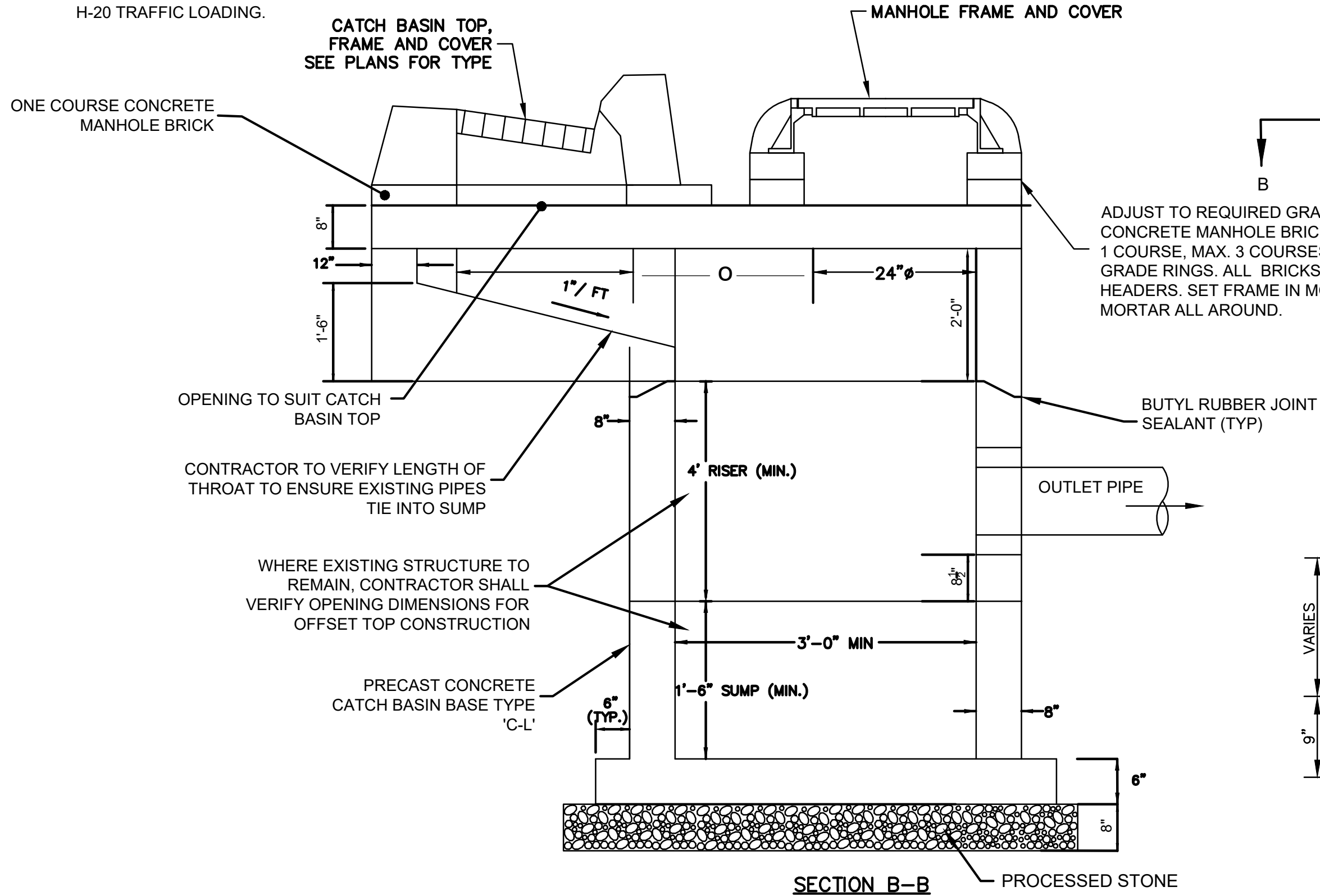
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SEDIMENTATION AND
EROSION CONTROL
DETAILS

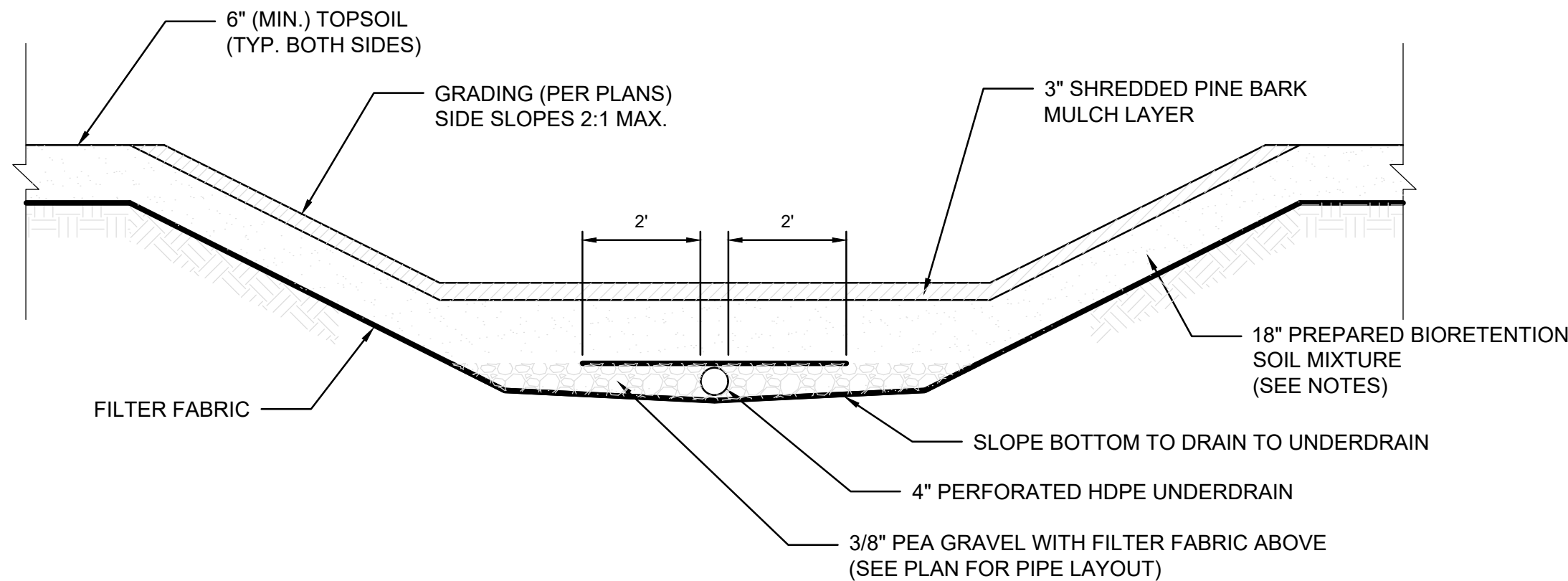
Sheet Number:

DET-01

- NOTES
1. SET TOP SLAB TO MEET EXIST. SLOPE OF CURB LINE AND CROSS SLOPE OF SIDEWALK. ADJUST DIMENSIONS OF CAST-IN-PLACE SECTION.
 2. PRECAST SECTIONS SHALL BE CAPABLE OF WITHSTANDING AASHTO H-20 TRAFFIC LOADING.



OFFSET CATCH BASIN
N.T.S.



BIORETENTION SOIL MIXTURE SHALL BE A MIXTURE OF SAND COMPOST AND SOIL

50% SAND
30% TOPSOIL, AND
20% COMPOST.

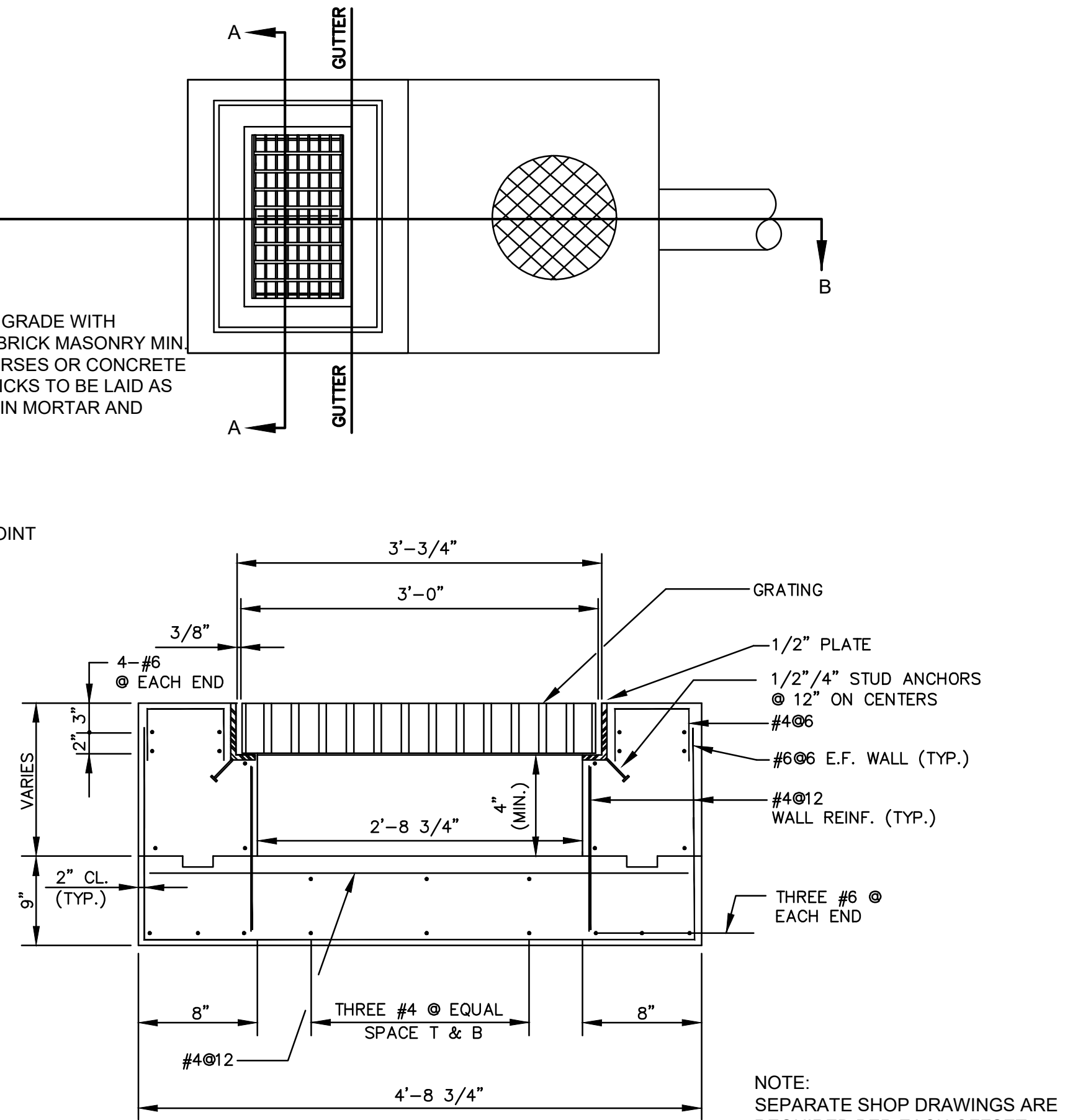
THE SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS, OR SIMILAR OBJECTS LARGER THAN 2 INCHES. CLAY CONTENT SHOULD NOT EXCEED 5%. SOIL PH SHOULD GENERALLY BE BETWEEN 5.5-6.5, A RANGE THAT IS OPTIMAL FOR MICROBIAL ACTIVITY AND ADSORPTION OF NITROGEN, PHOSPHORUS, AND OTHER POLLUTANTS. USE SOILS WITH 1.5% TO 3% ORGANIC CONTENT AND MAXIMUM 500-PPM SOLUBLE SALTS.

THE SAND COMPONENT SHOULD BE GRAVELLY SAND THAT MEETS ASTM D 422.

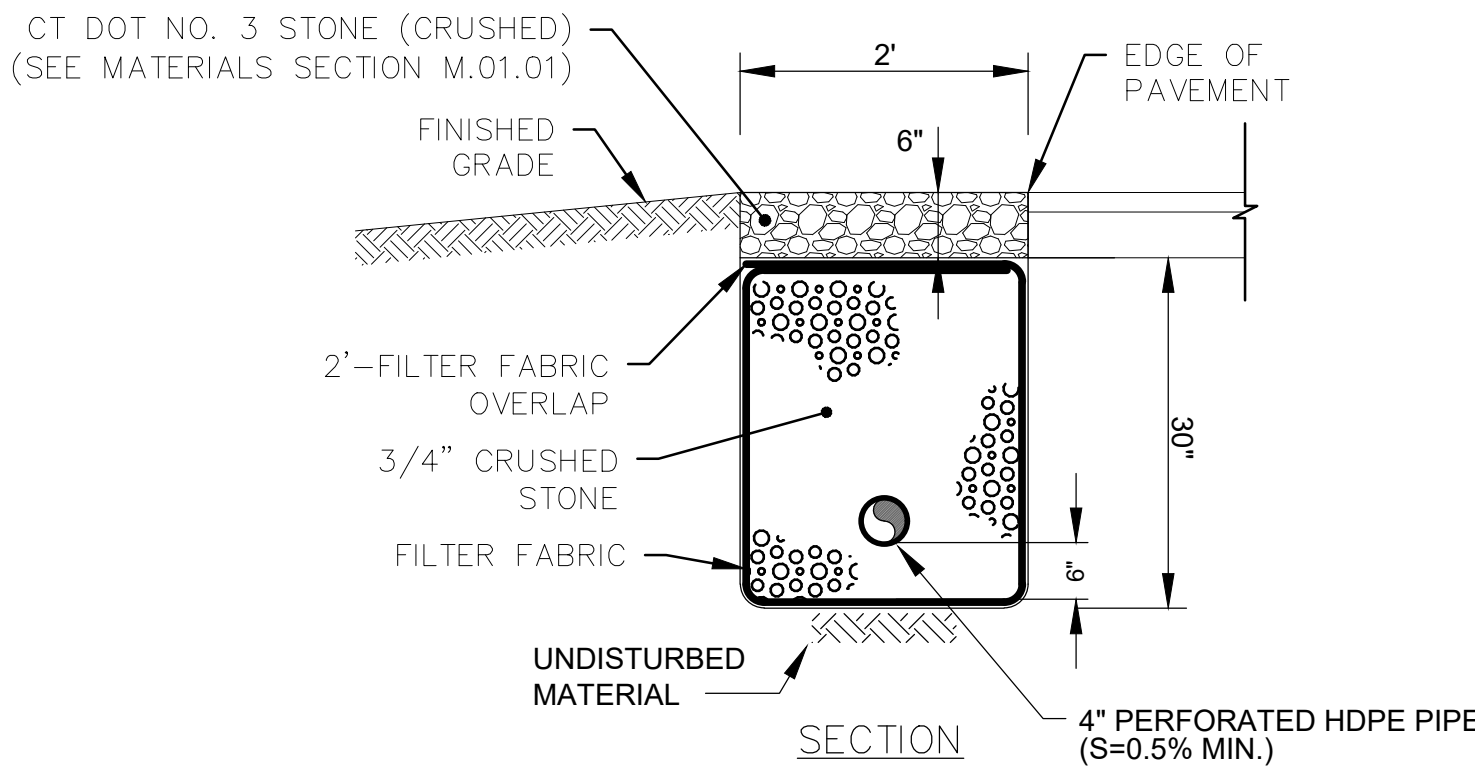
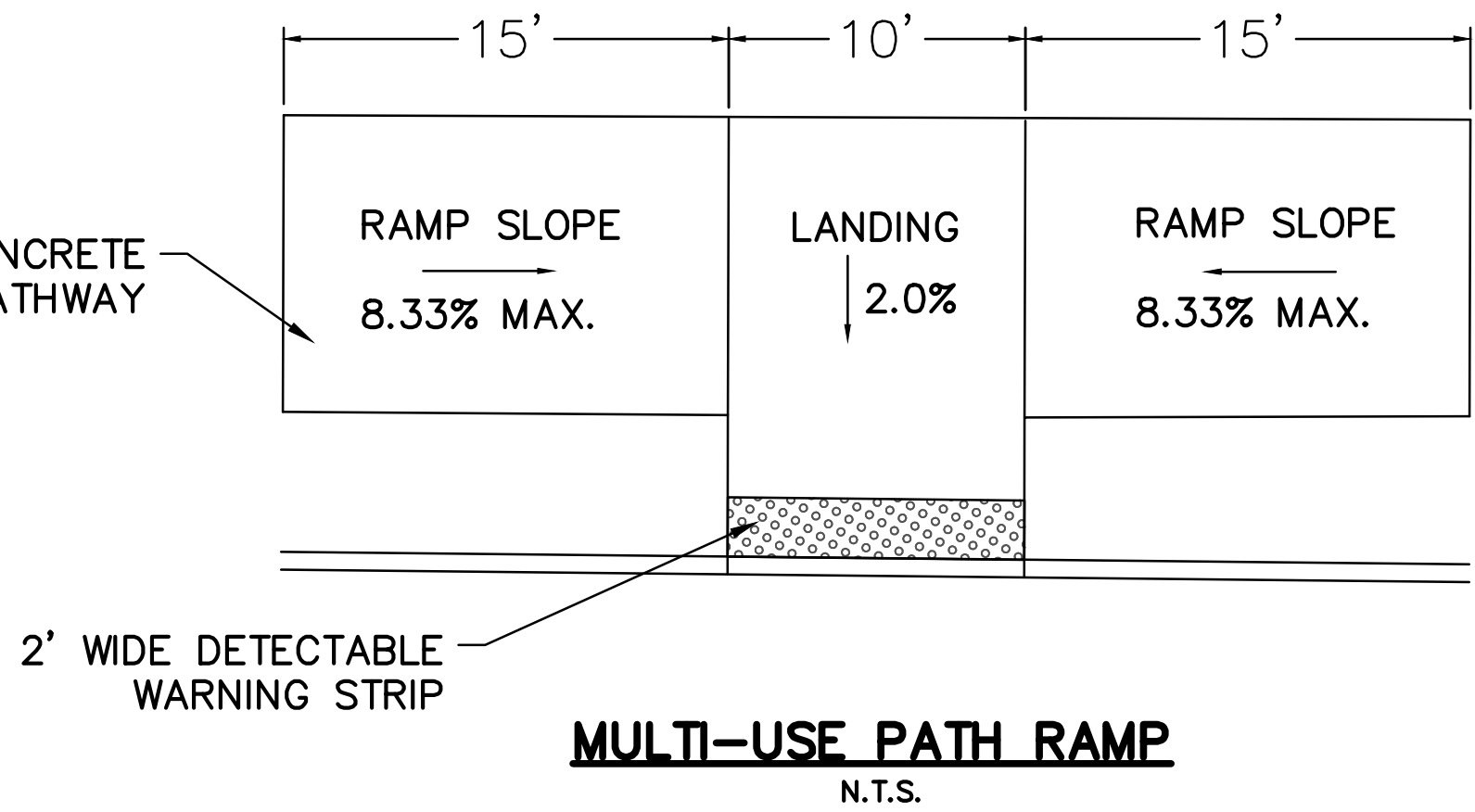
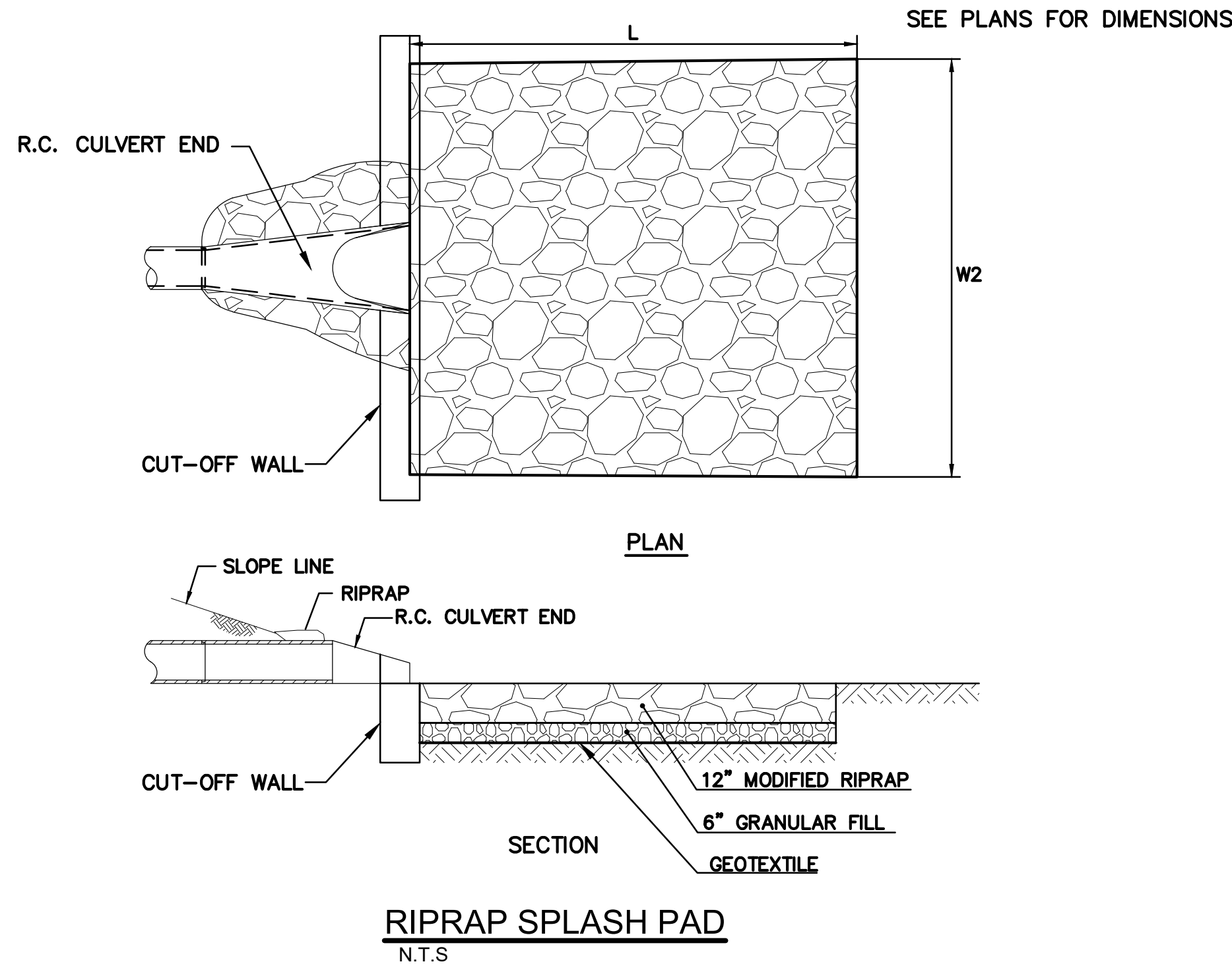
SIEVE SIZE	PERCENT PASSING
2-INCH	100
3/4-INCH	70-100
1/2-INCH	50-80
U.S. NO. 40	15-40
U.S. NO. 20	0-3

THE TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND OR LOAM MIXTURE.

BIO-RETENTION DETAIL
N.T.S.



STONE TRENCH (PRE-TREATMENT)
NOT TO SCALE



STONE TRENCH (PRE-TREATMENT)
NOT TO SCALE

Project: TOWN OF LEDYARD, CT



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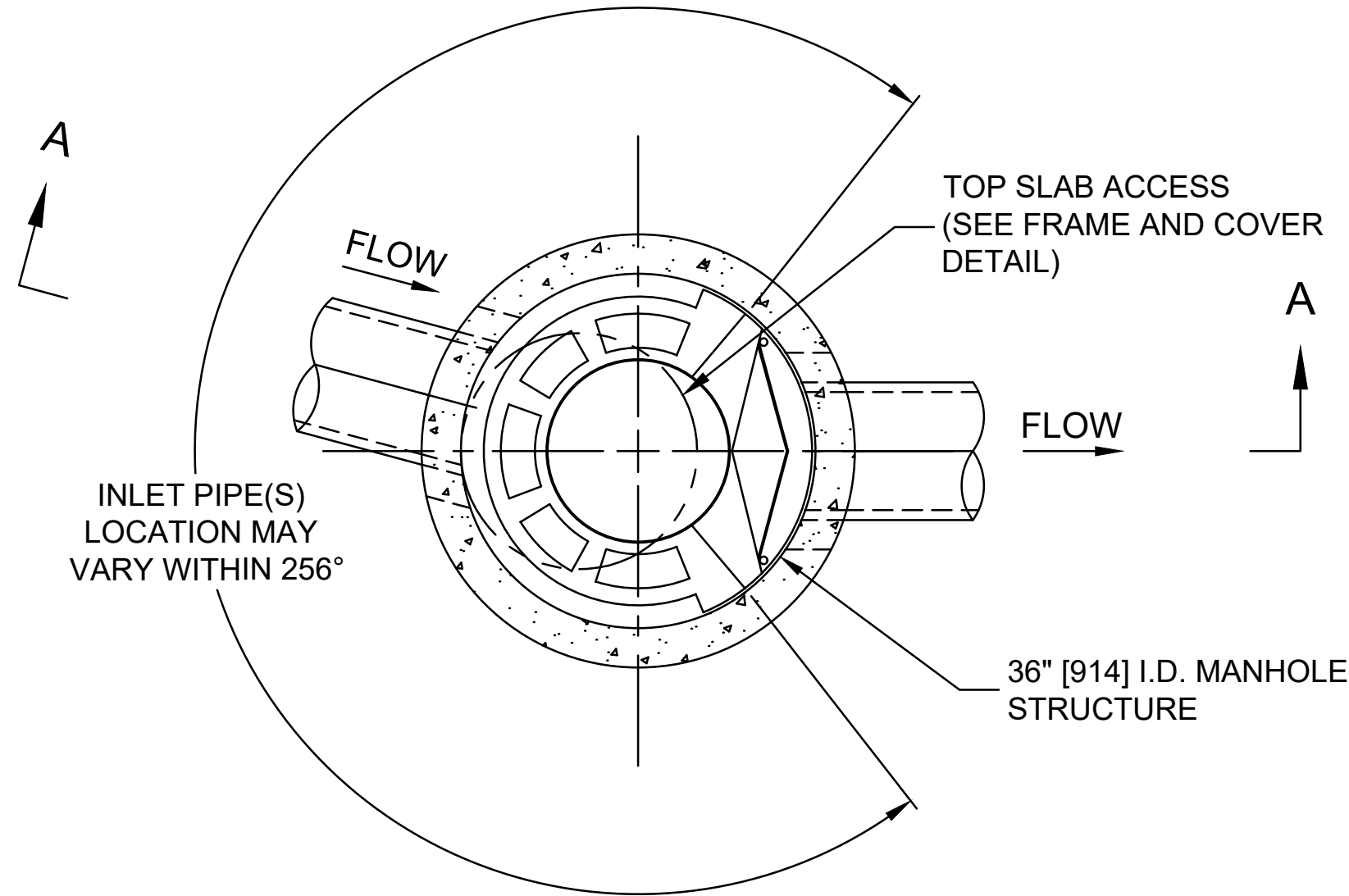
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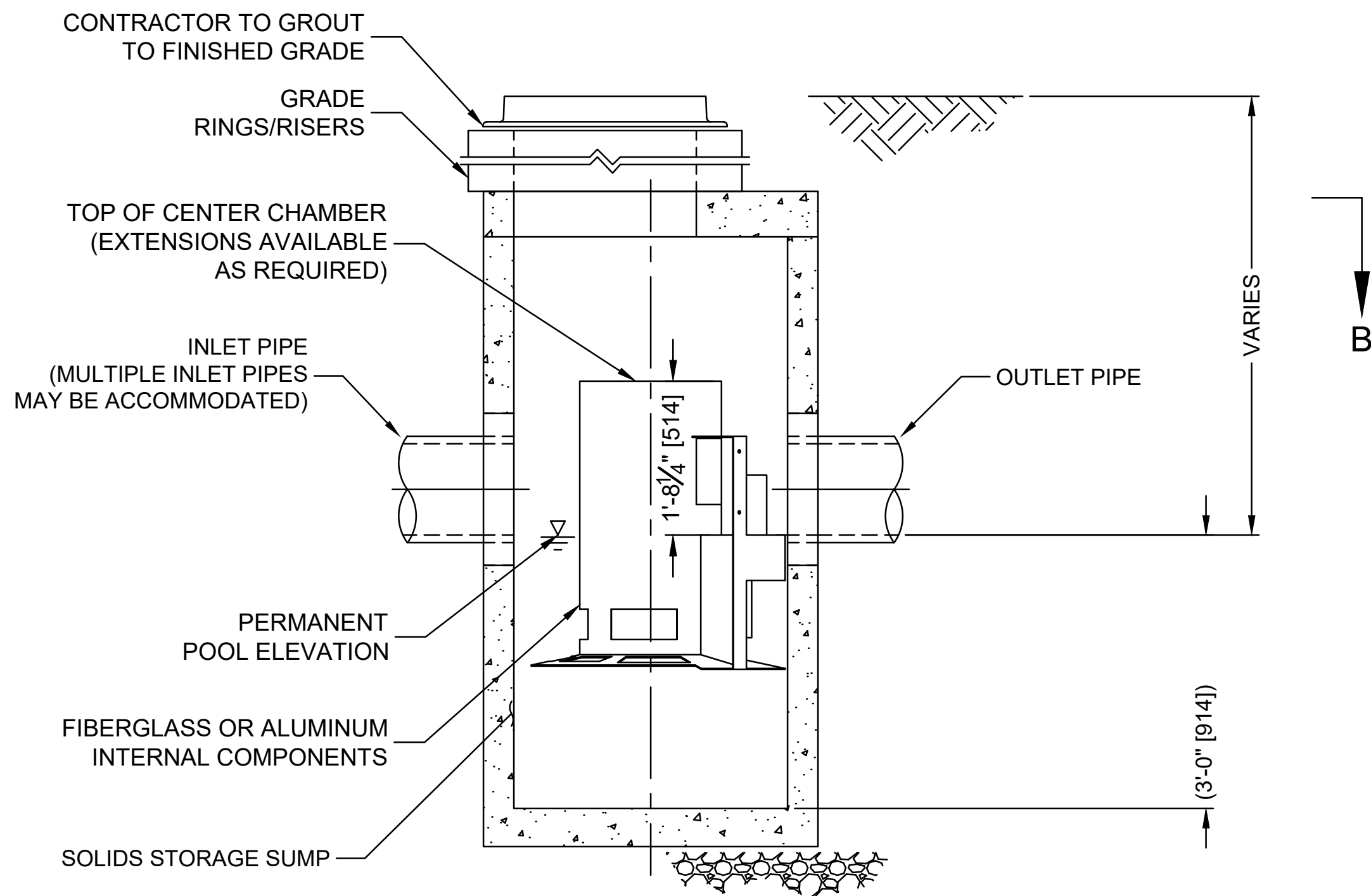
**MISCELLANEOUS
DETAILS**

Sheet Number:

DET-02



PLAN VIEW B-B
NOT TO SCALE



ELEVATION A-A
NOT TO SCALE

CASCADE
separator™

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-3 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

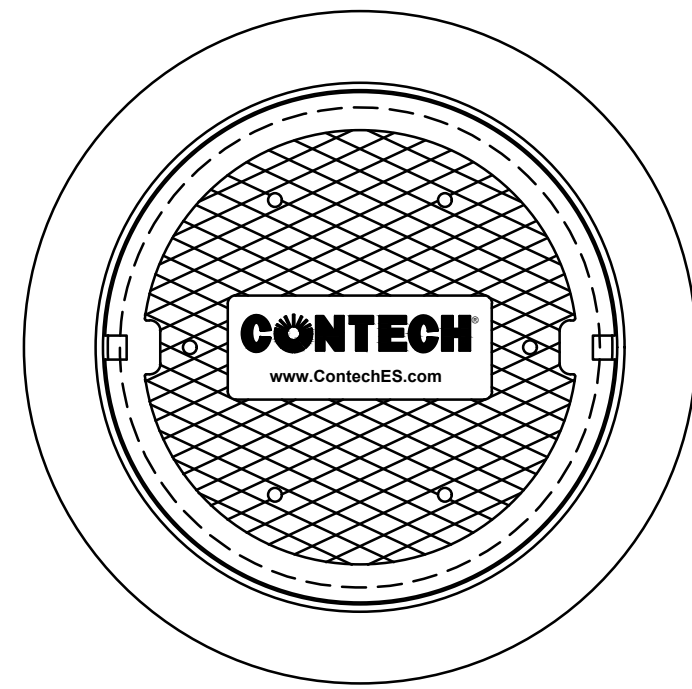
CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE)

GRATED INLET WITH INLET PIPE OR PIPES CHOSEN CONFIGURATION

CURB INLET ONLY (NO INLET PIPE)

CURB INLET WITH INLET PIPE OR PIPES



FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	STA. 54+00		
WATER QUALITY FLOW RATE (cfs [L/s])	0.08 cfs		
PEAK FLOW RATE (cfs [L/s])	5.28 cfs		
RETURN PERIOD OF PEAK FLOW (yrs)	10-YR.		
RIM ELEVATION	244.13		
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	239.88	RCP	15"
INLET PIPE 2	239.88	RCP	15"
OUTLET PIPE	228.97	RCP	18"

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH
ENGINEERED SOLUTIONS LLC

www.contechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

800-338-1122

513-645-7000

513-645-7993 FAX

CS-3
CASCADE SEPARATOR
STANDARD DETAIL

Project:
TOWN OF LEDYARD, CT



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W&S Project No.: ENG20-1119

W&S File No.:

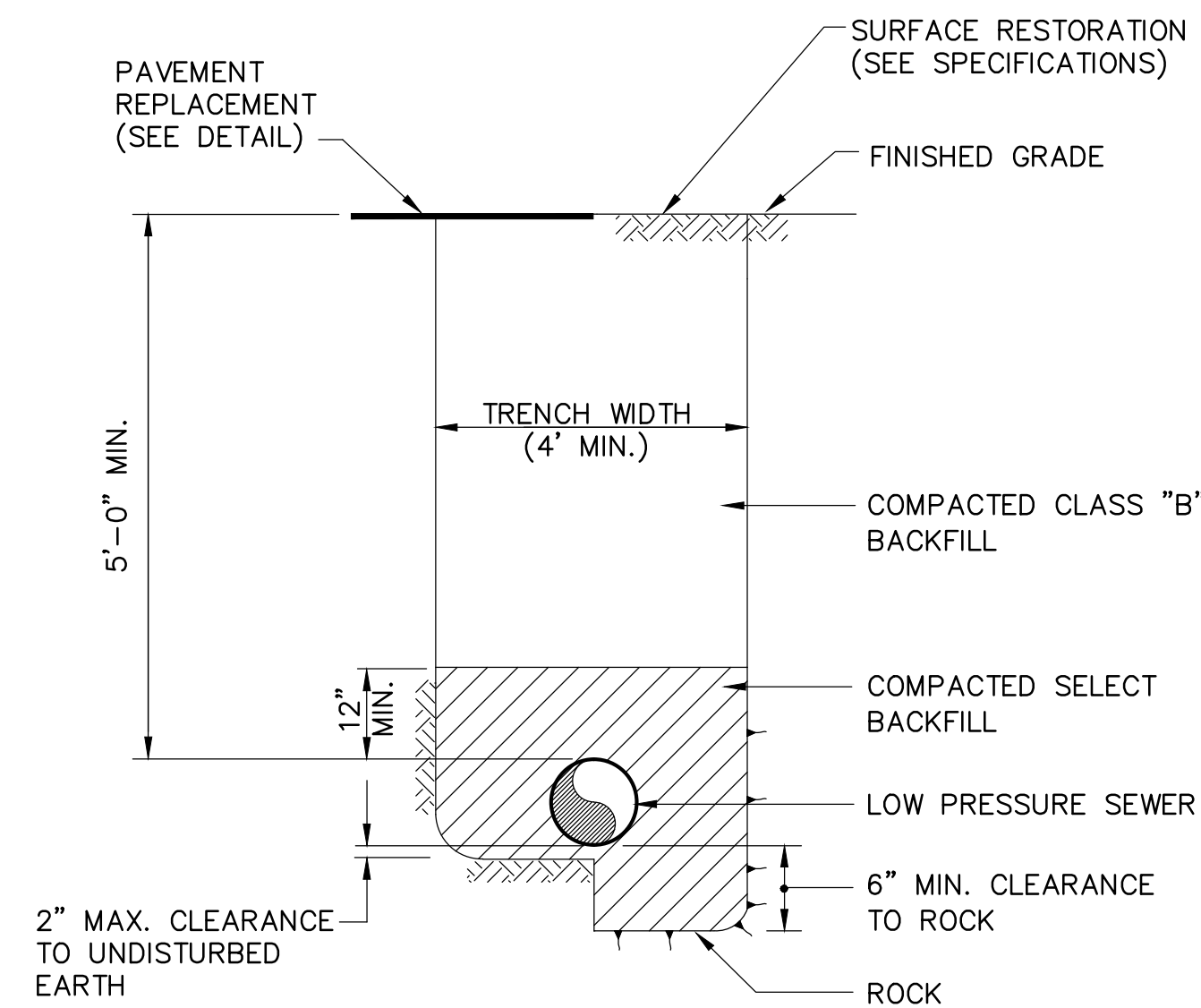
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HYDRODYNAMIC
SEPARATOR
DETAILS

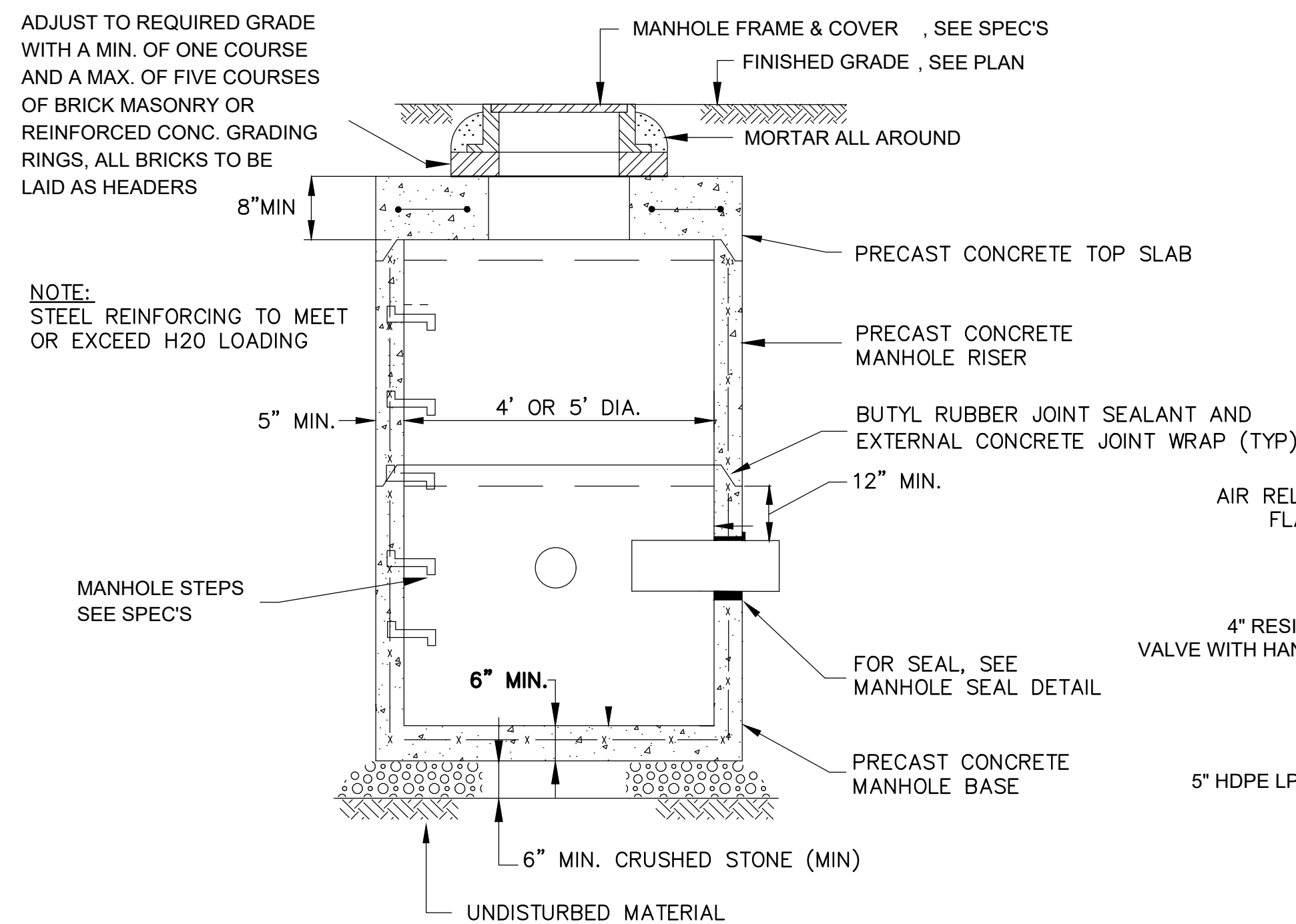
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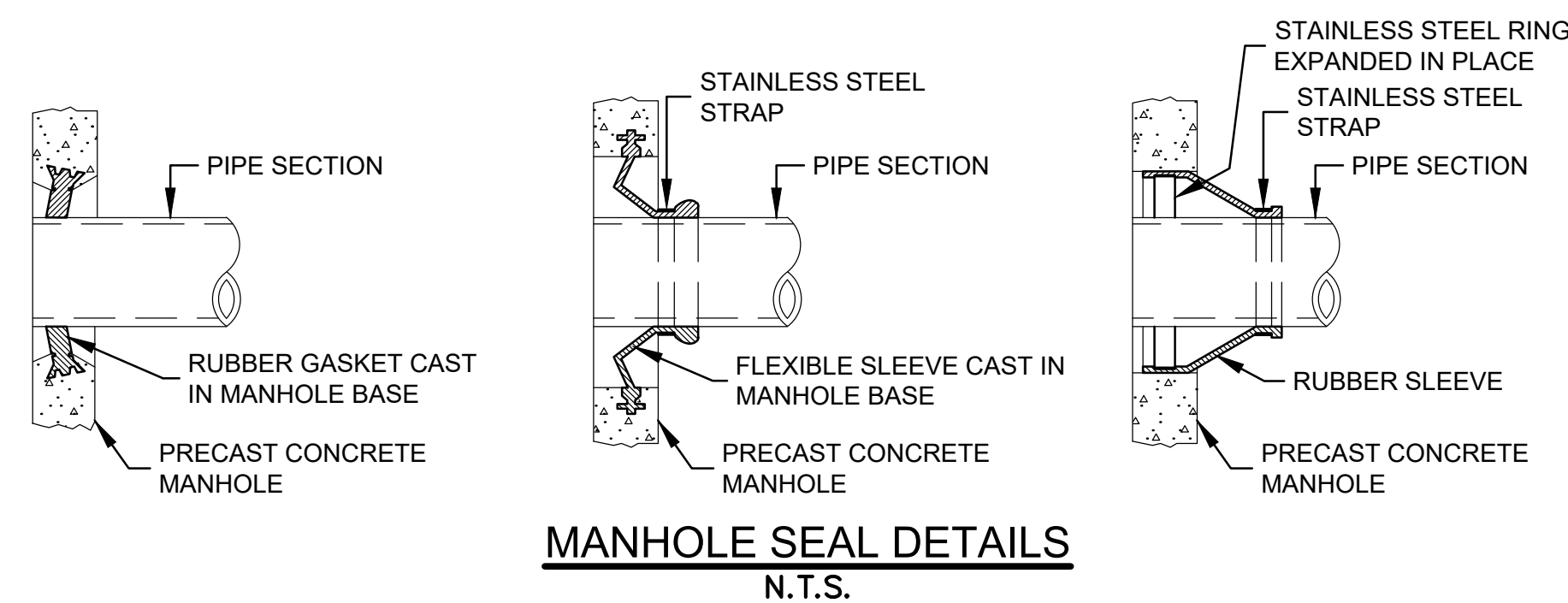
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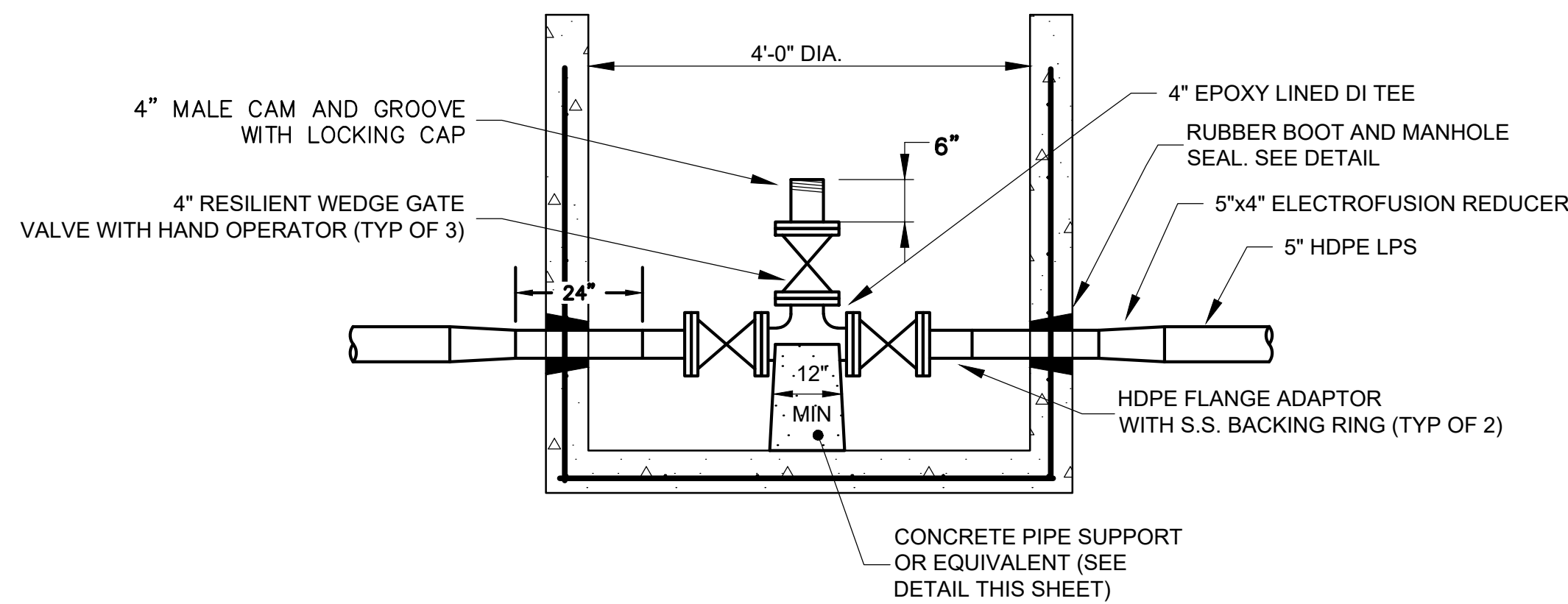
LOW PRESSURE SEWERTRENCH DETAIL
N.T.S.



PRECAST CONCRETE MANHOLE DETAIL
N.T.S.

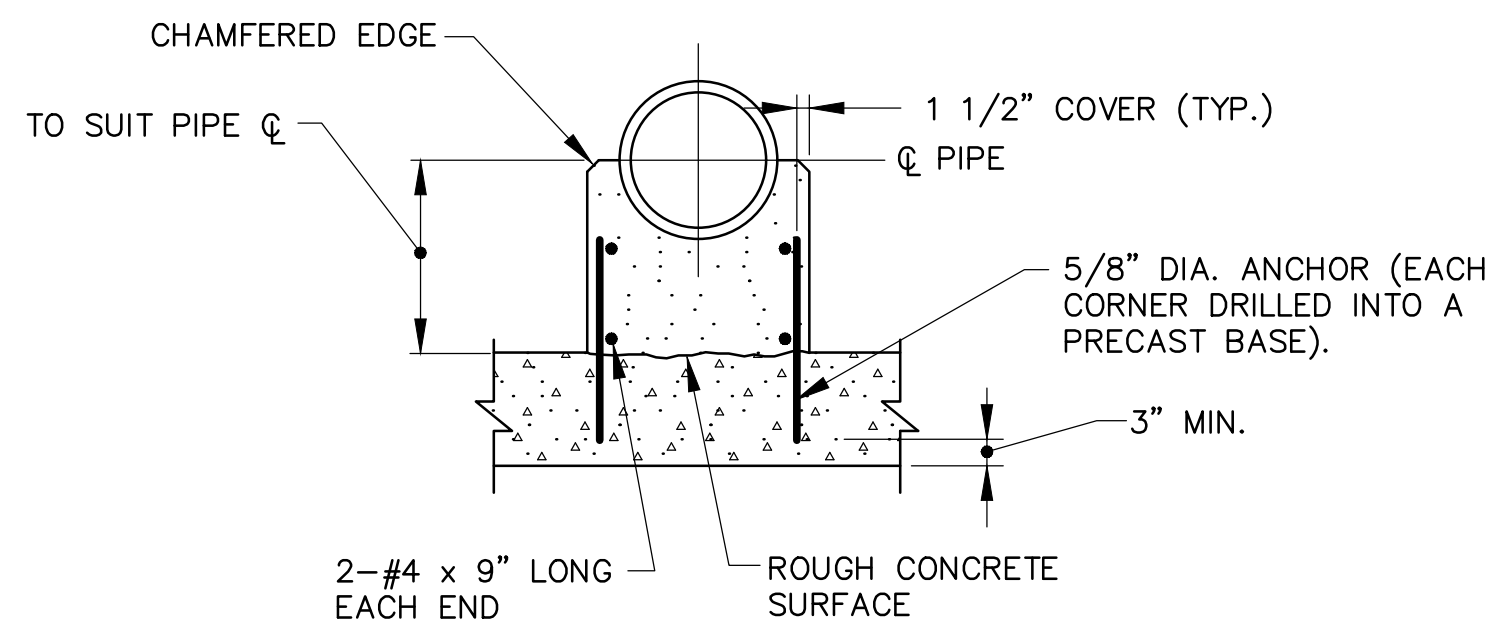


MANHOLE SEAL DETAILS
N.T.S.

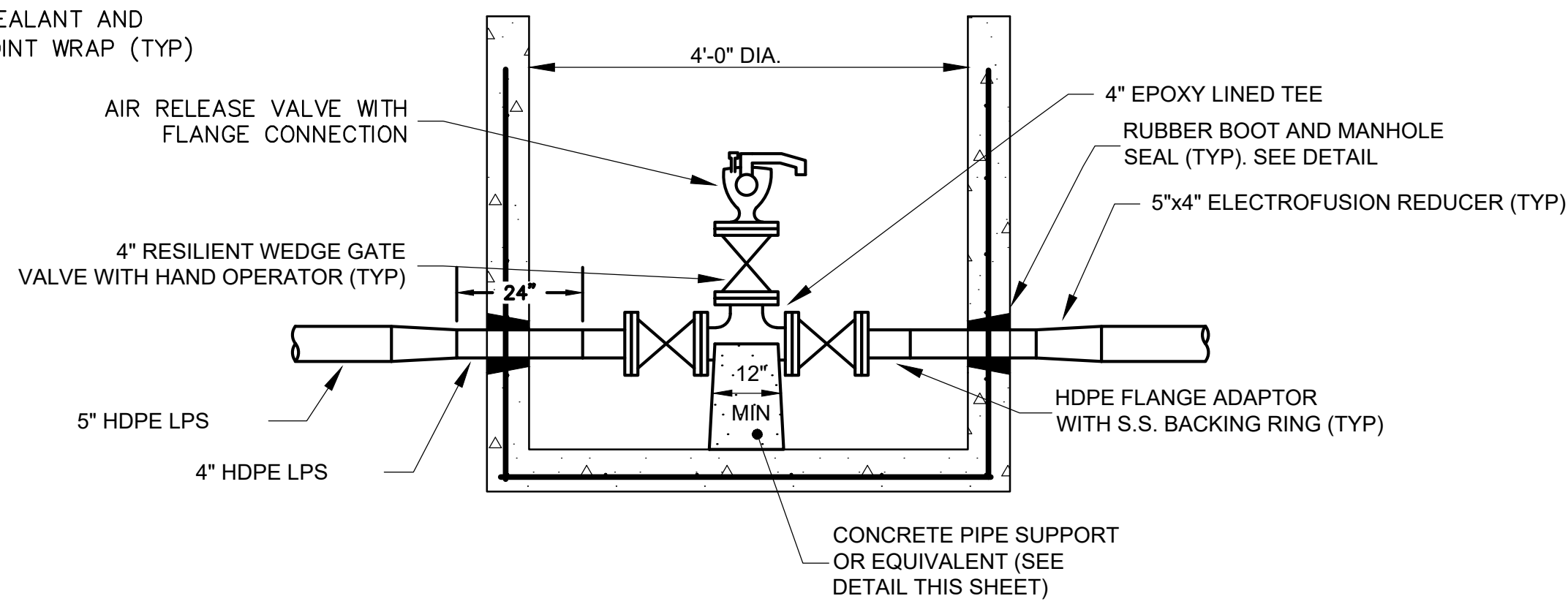


NOTE: ALL MANHOLE MATERIALS TO BE AS SHOWN ON TYPICAL PRECAST MANHOLE DETAIL.

LPS CLEANOUT MANHOLE DETAIL
N.T.S.

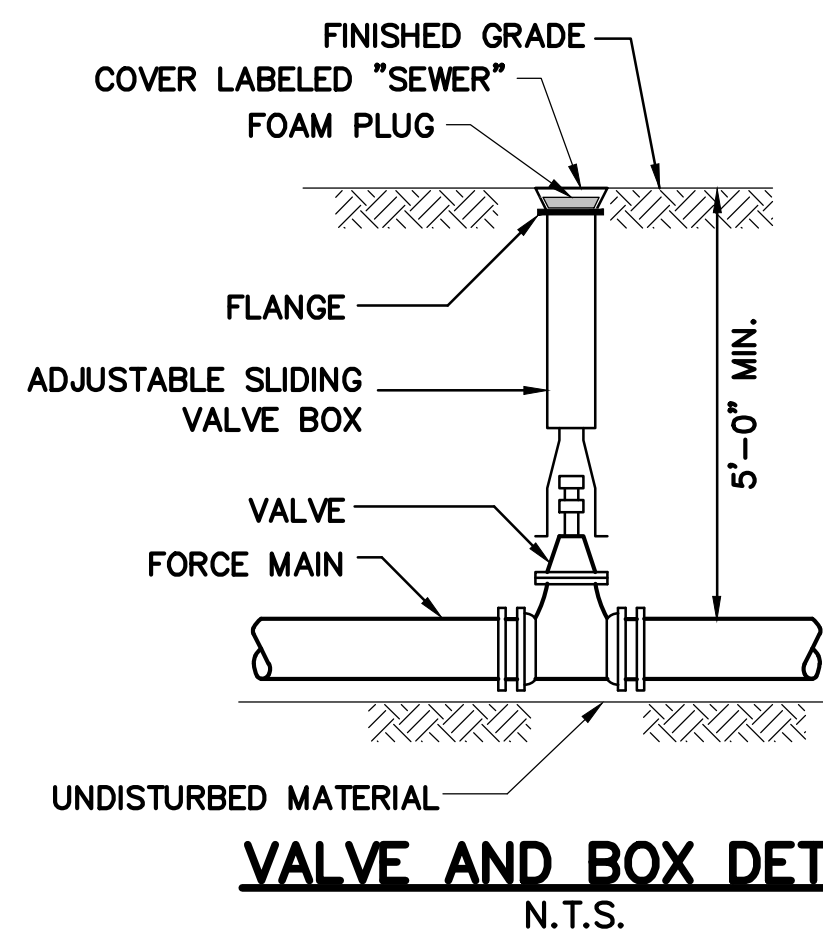


CONCRETE PIPE SUPPORT
N.T.S.

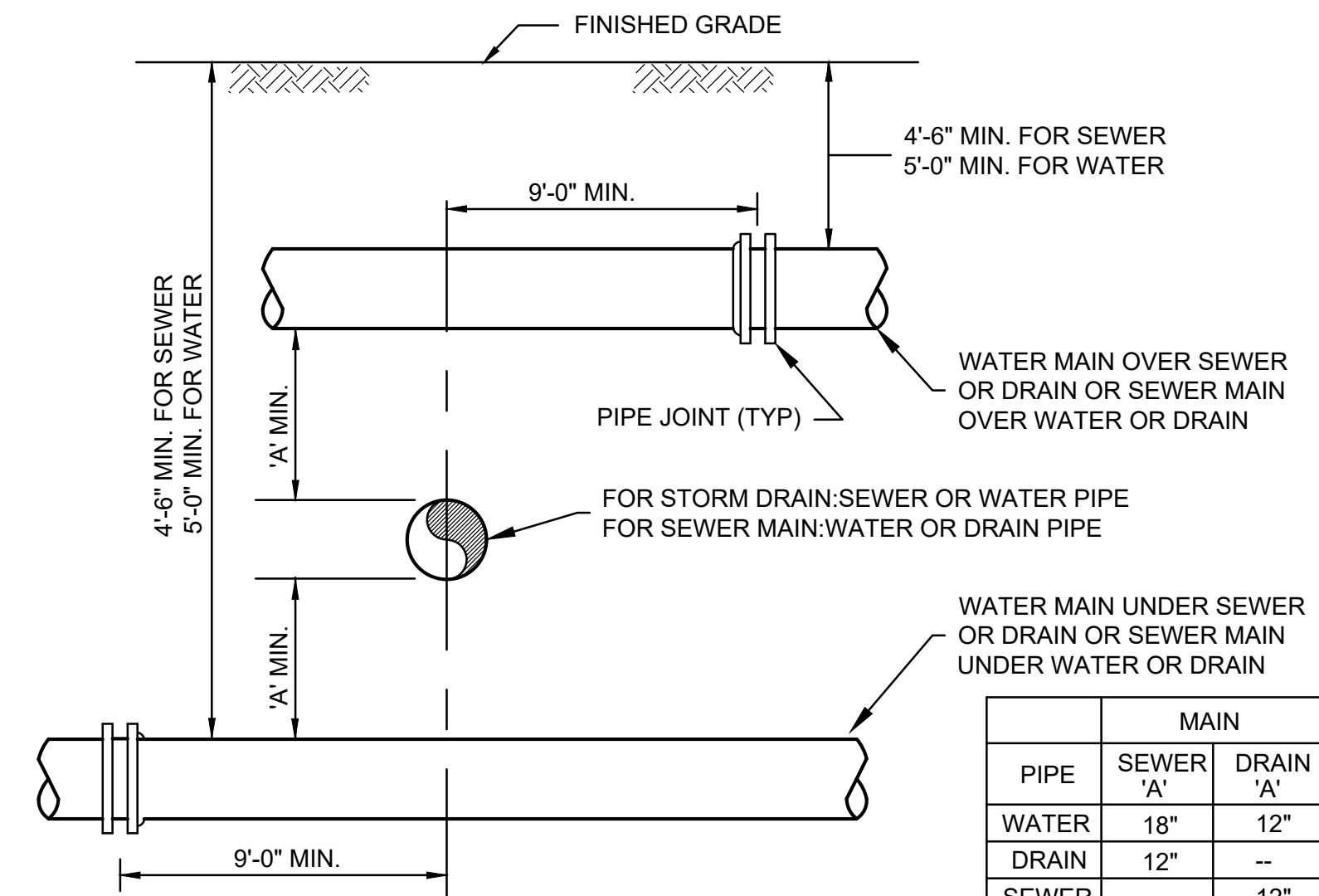


NOTE: ALL MANHOLE MATERIALS TO BE AS SHOWN ON TYPICAL PRECAST MANHOLE DETAIL.

LPS AIR RELEASE MANHOLE DETAIL
N.T.S.



VALVE AND BOX DETAIL
N.T.S.



WATER MAIN UNDER SEWER OR DRAIN OR SEWER MAIN UNDER WATER OR DRAIN

PIPE	MAIN	
	SEWER 'A'	DRAIN 'A'
WATER	18"	12"
DRAIN	12"	--
SEWER	--	12"

WATER, SEWER OR DRAIN CROSSING DETAIL
N.T.S.

Project:
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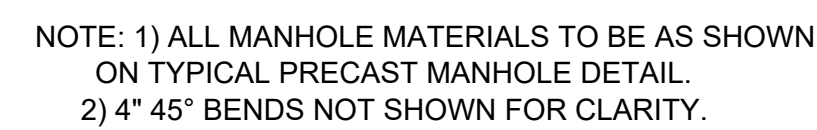
**LOW PRESSURE
SEWER DETAILS**

Sheet Number:

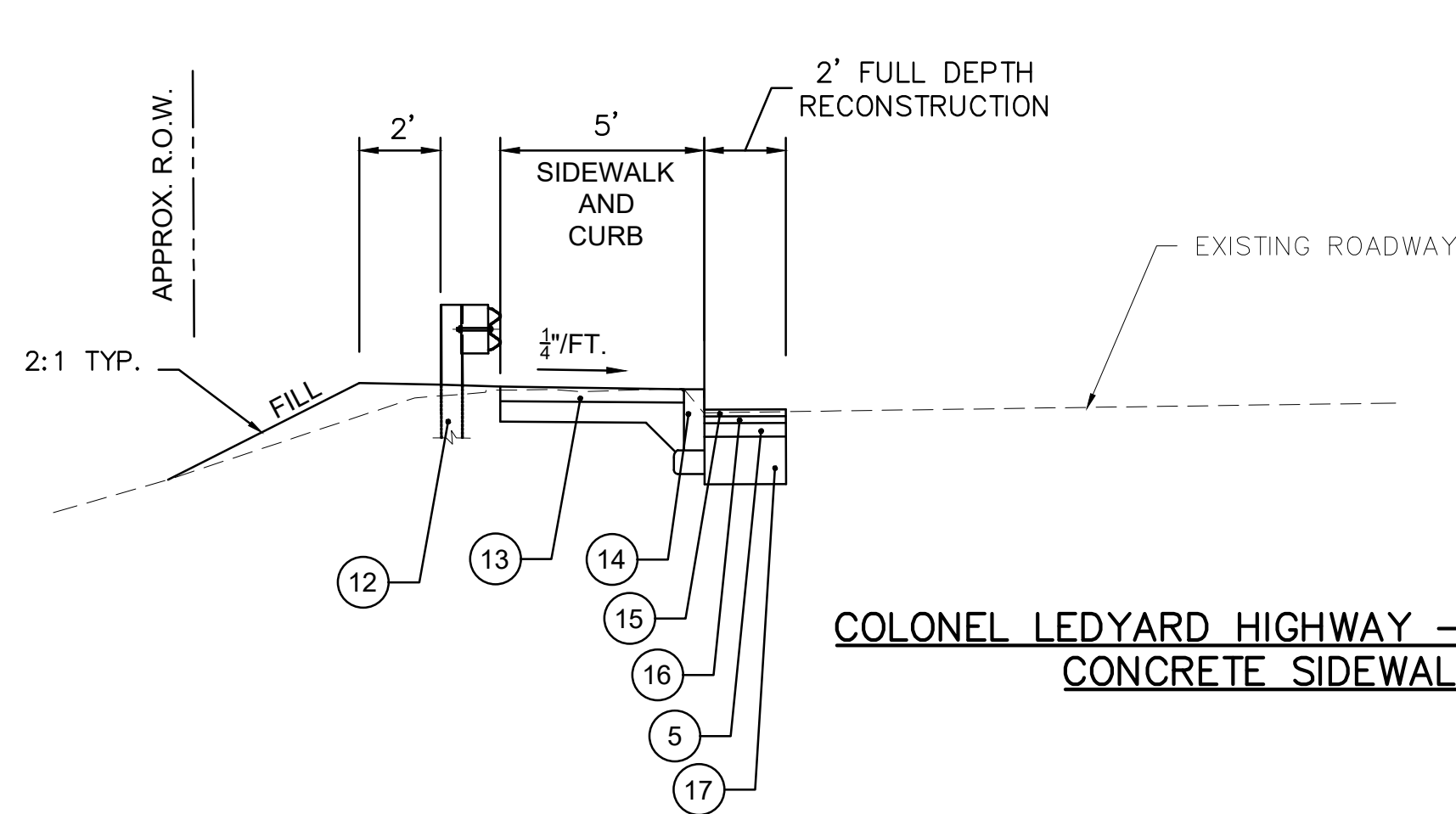
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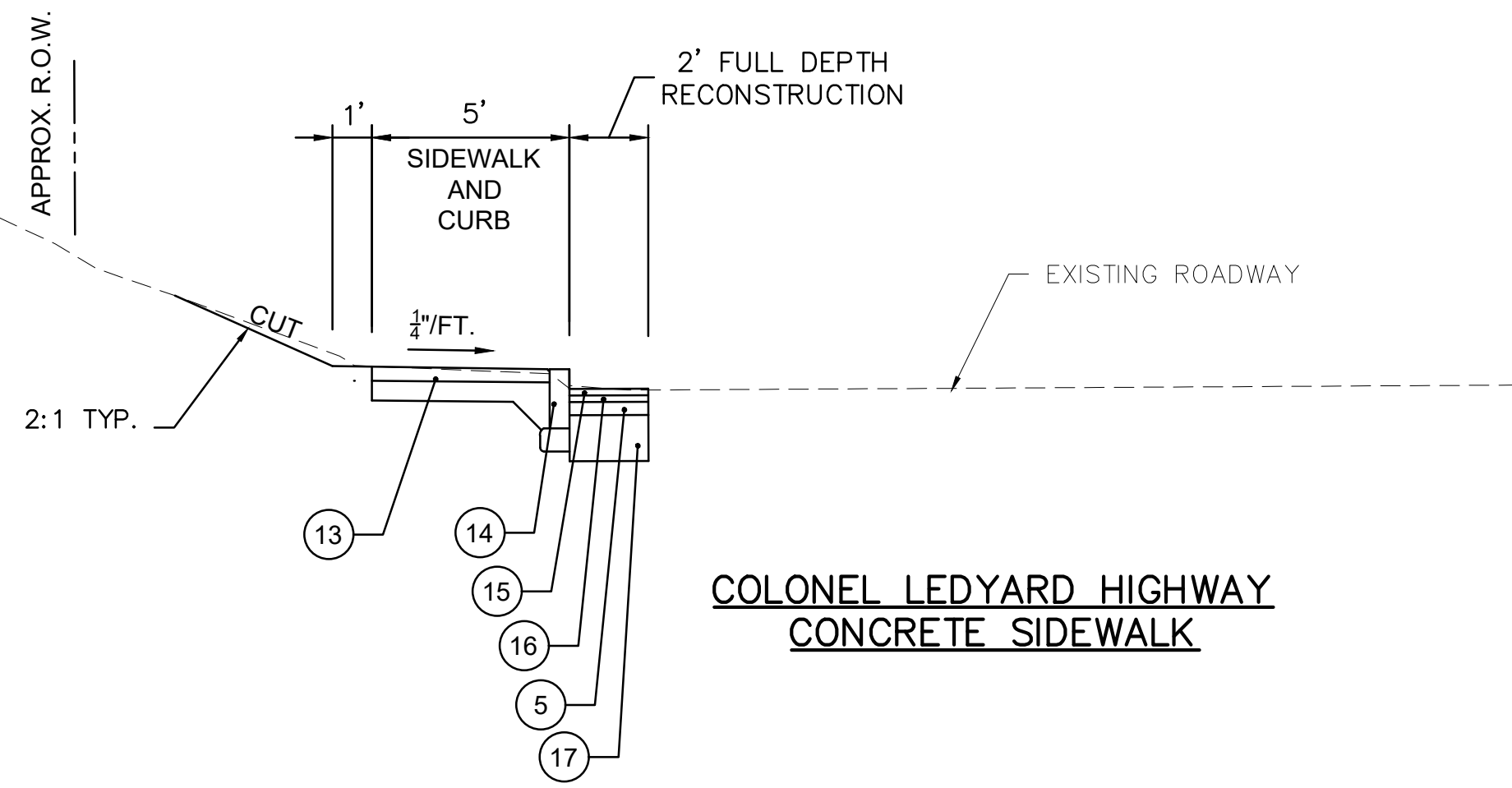
PLAN
N.T.S.



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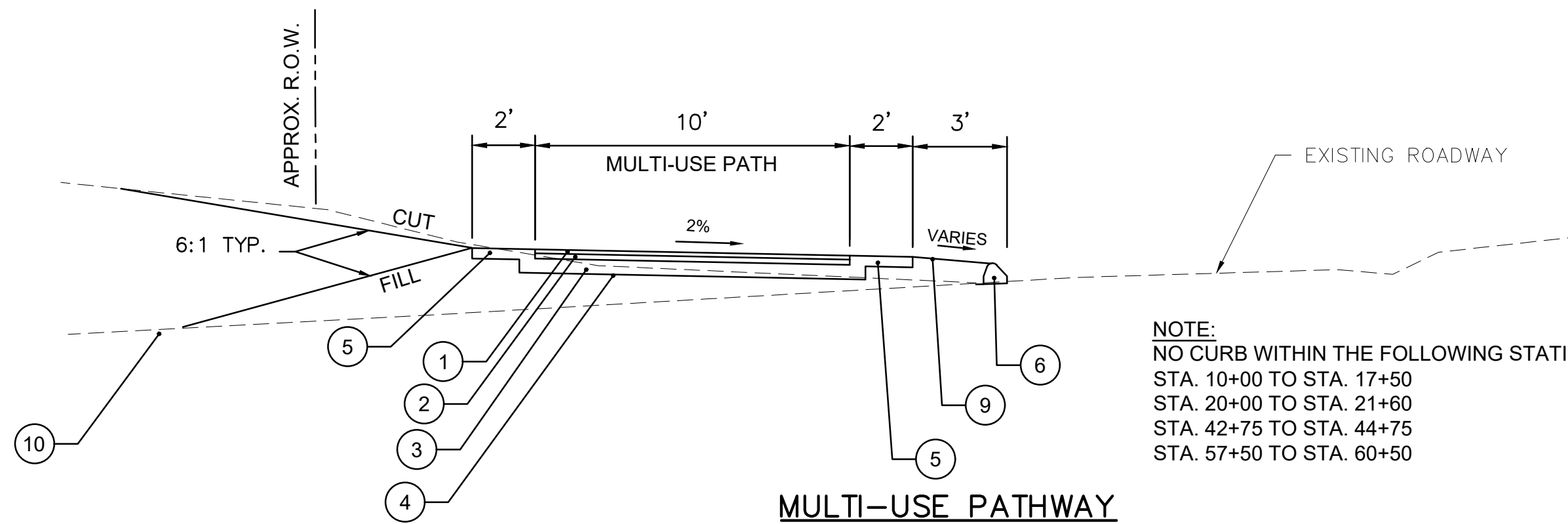


COLONEL LEDYARD HIGHWAY – ROUTE 117
CONCRETE SIDEWALK



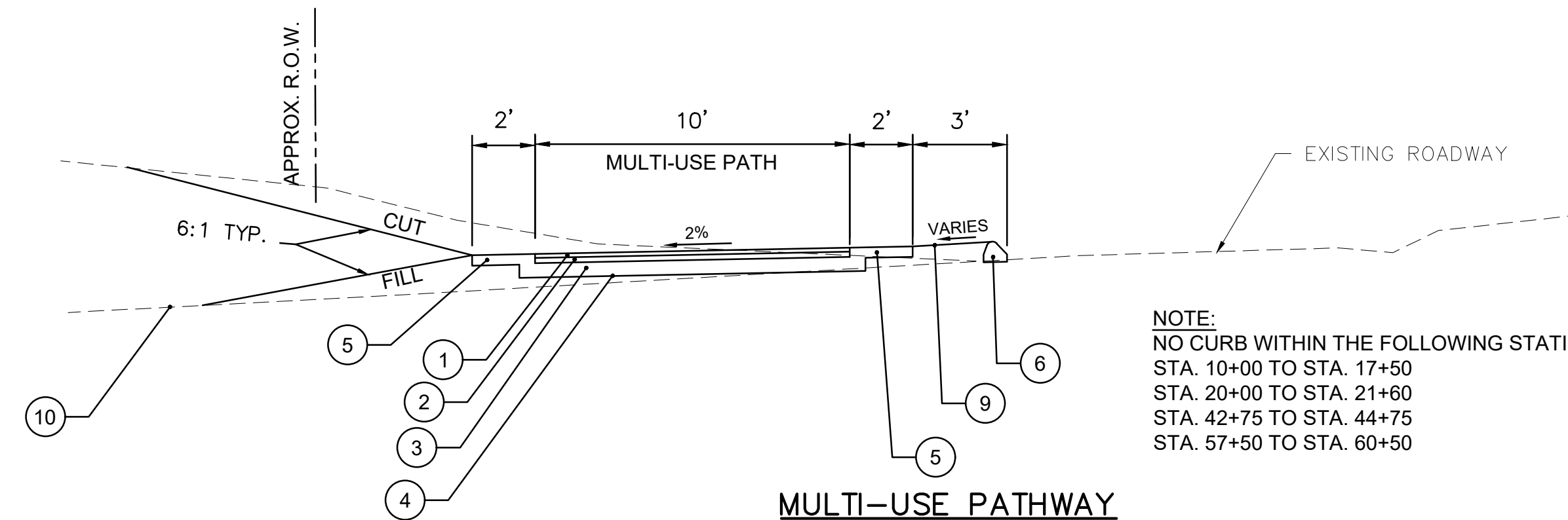
COLONEL LEDYARD HIGHWAY
CONCRETE SIDEWALK

START – STA. 11+00
STA. 12+75 – STA. 13+25
STA. 17+70 – STA. 20+00
STA. 22+00 – STA. 24+50
STA. 31+00 – STA. 37+50
STA. 40+50 – STA. 42+00
STA. 45+50 – STA. 47+50
STA. 61+00 – END

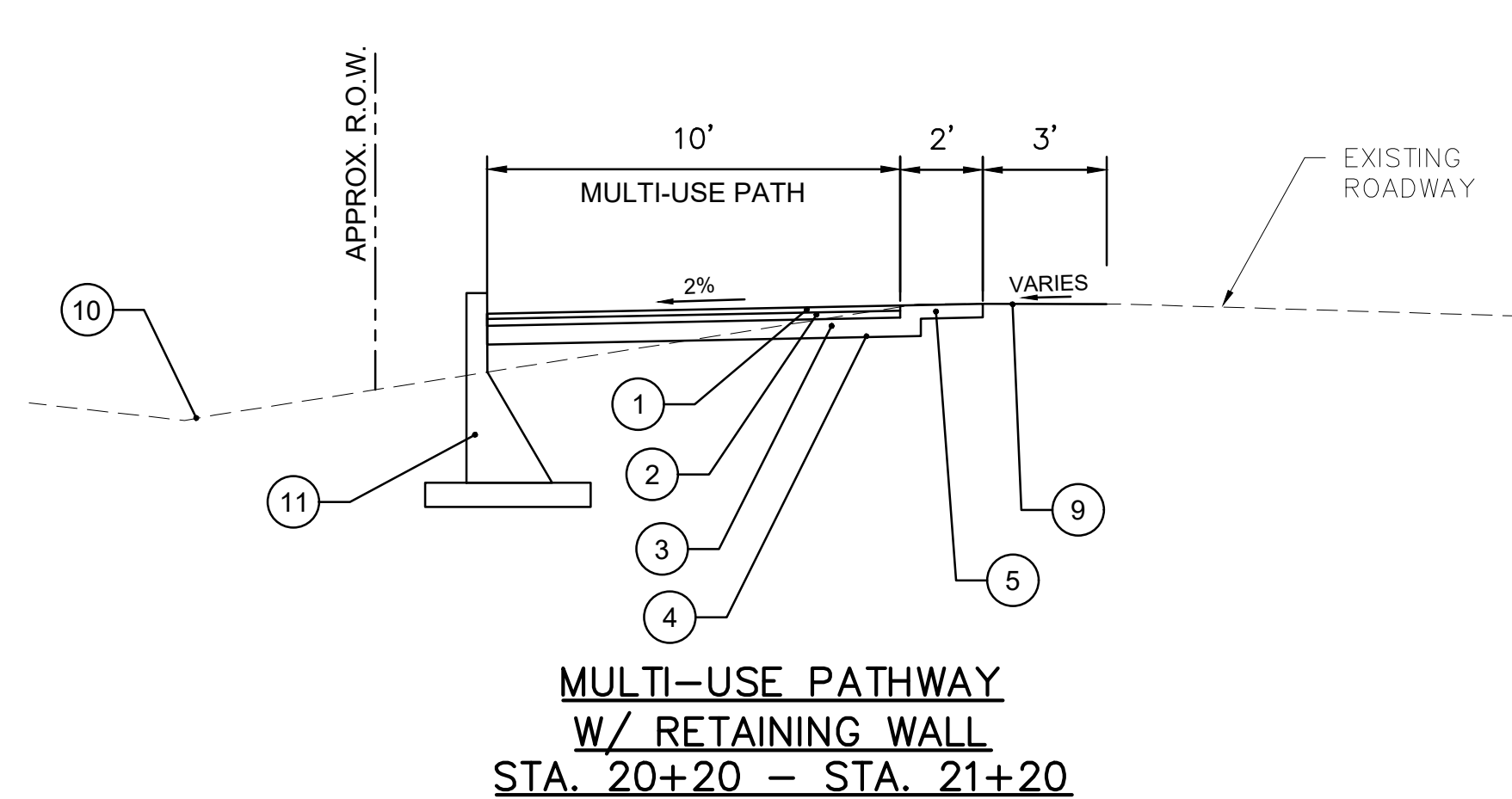


MULTI-USE PATHWAY

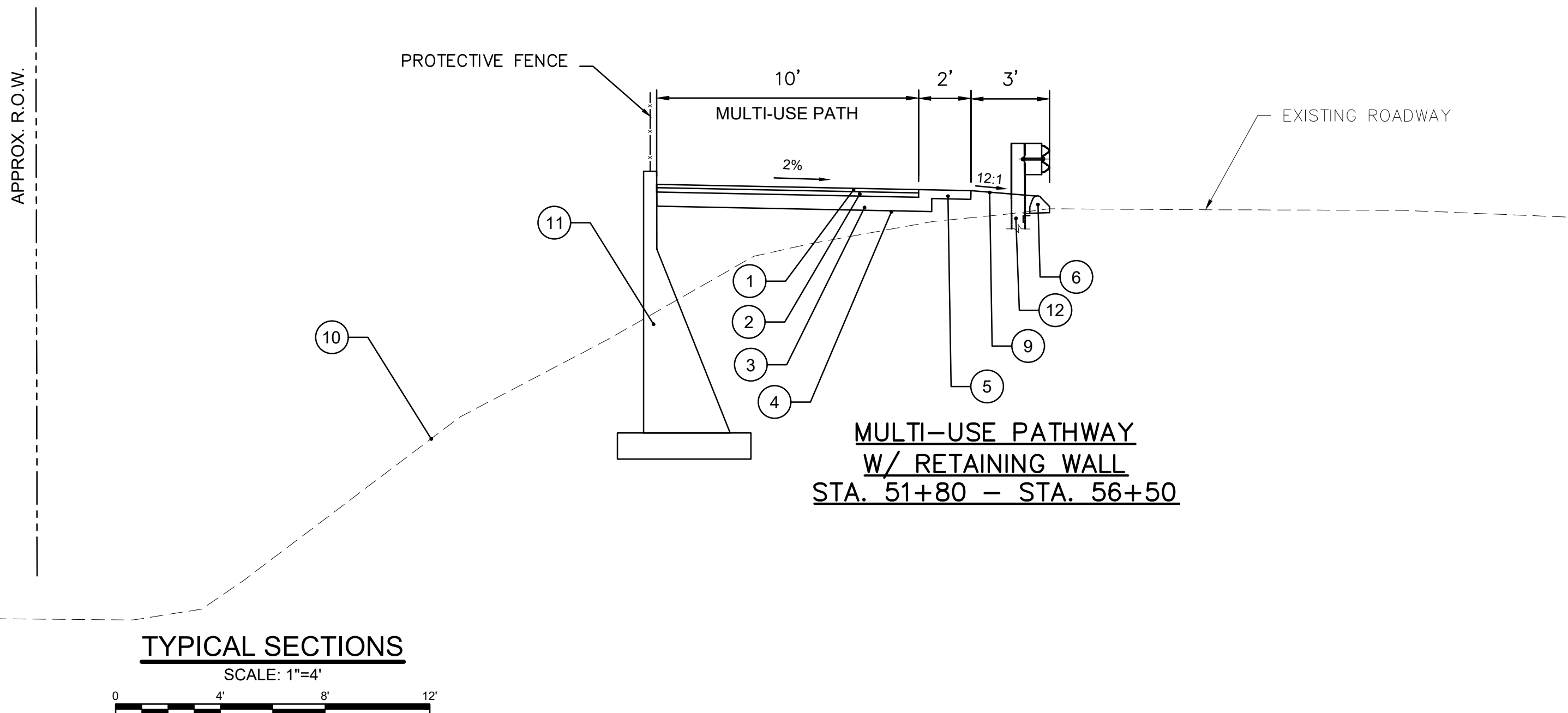
STA. 11+50 – STA. 12+50
STA. 13+50 – STA. 17+50
STA. 25+00 – STA. 30+50
STA. 38+00 – STA. 40+00
STA. 42+50 – STA. 45+00
STA. 48+00 – STA. 51+65
STA. 56+50 – STA. 60+50



MULTI-USE PATHWAY



MULTI-USE PATHWAY
W/ RETAINING WALL
STA. 20+20 – STA. 21+20



MULTI-USE PATHWAY
W/ RETAINING WALL
STA. 51+80 – STA. 56+50

TYPICAL SECTIONS

SCALE: 1"=4'



LEGEND

- ① - 1.5" HMA S0.375
- ② - 2" HMA S0.5
- ③ - 6" PROCESSED AGGREGATE BASE
- ④ - COMPACTED SUBGRADE
- ⑤ - 4" PROCESSED AGGREGATE BASE
- ⑥ - 6" BITUMINOUS CONCRETE LIP CURBING
- ⑦ - 6" CONCRETE CURBING
- ⑧ - CONCRETE SIDEWALK
- ⑨ - 4" TOPSOIL AND TURF ESTABLISHMENT
- ⑩ - EXISTING GRADE
- ⑪ - RETAINING WALL
- ⑫ - METAL BEAM RAIL (R-B MASH)
- ⑬ - CONCRETE SIDEWALK
- ⑭ - CONCRETE CURB
- ⑮ - 2" HMA S0.375
- ⑯ - 2" HMA S0.5
- ⑰ - 14" SUBBASE

NOTES:

1. ALL CUT OR FILL SLOPES TO BE 2:1 MAX, UNLESS OTHERWISE NOTED ON THE CROSS SECTIONS OR APPROVED BY THE ENGINEER
2. CONTRACTOR TO TRANSITION CROSS SLOPE OF MULTI-USE PATHWAY AS NEEDED BETWEEN THE SPECIFIED STATION RANGES

Project:
TOWN OF LEDYARD, CT



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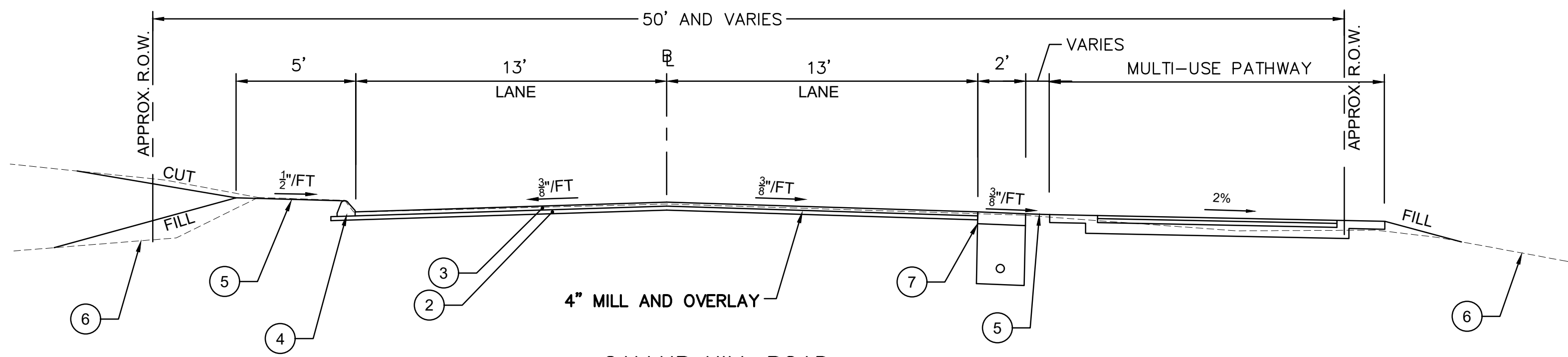
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MULTI-USE PATHWAY
AND SIDEWALK
TYPICAL SECTIONS

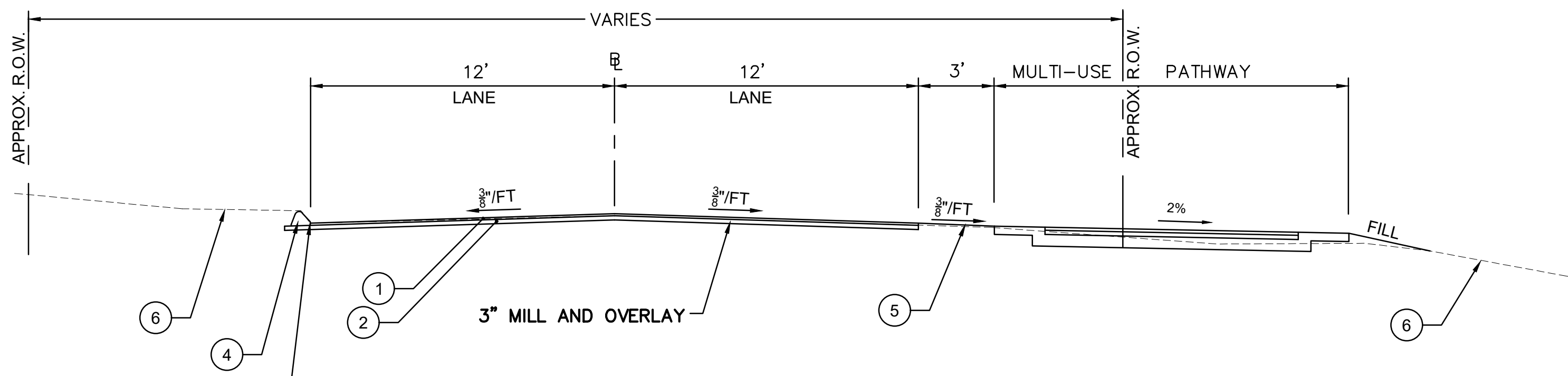
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TYP-01

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GALLUP HILL ROAD
STA. 300+16.5 TO STA. 302+10



RAY HOLDRIDGE CIRCLE

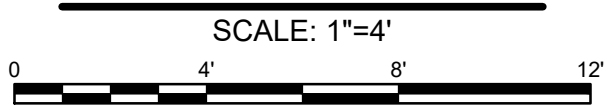
LEGEND

- 1 - 1" HMA S0.375
- 2 - 2" HMA S0.5
- 3 - 2" HMA S0.375
- 4 - 6" BITUMINOUS CONCRETE LIP CURBING
- 5 - 4" TOPSOIL AND TURF ESTABLISHMENT
- 6 - EXISTING GRADE
- 7 - 6" CRUSHED STONE W/ 4" UNDERDRAIN

NOTES:

1. ALL CUT OR FILL SLOPES TO BE 2:1 MAX, UNLESS OTHERWISE NOTED ON THE CROSS SECTIONS OR APPROVED BY THE ENGINEER

TYPICAL SECTIONS



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ROADWAY TYPICAL
SECTIONS

Sheet Number:

TYP-02

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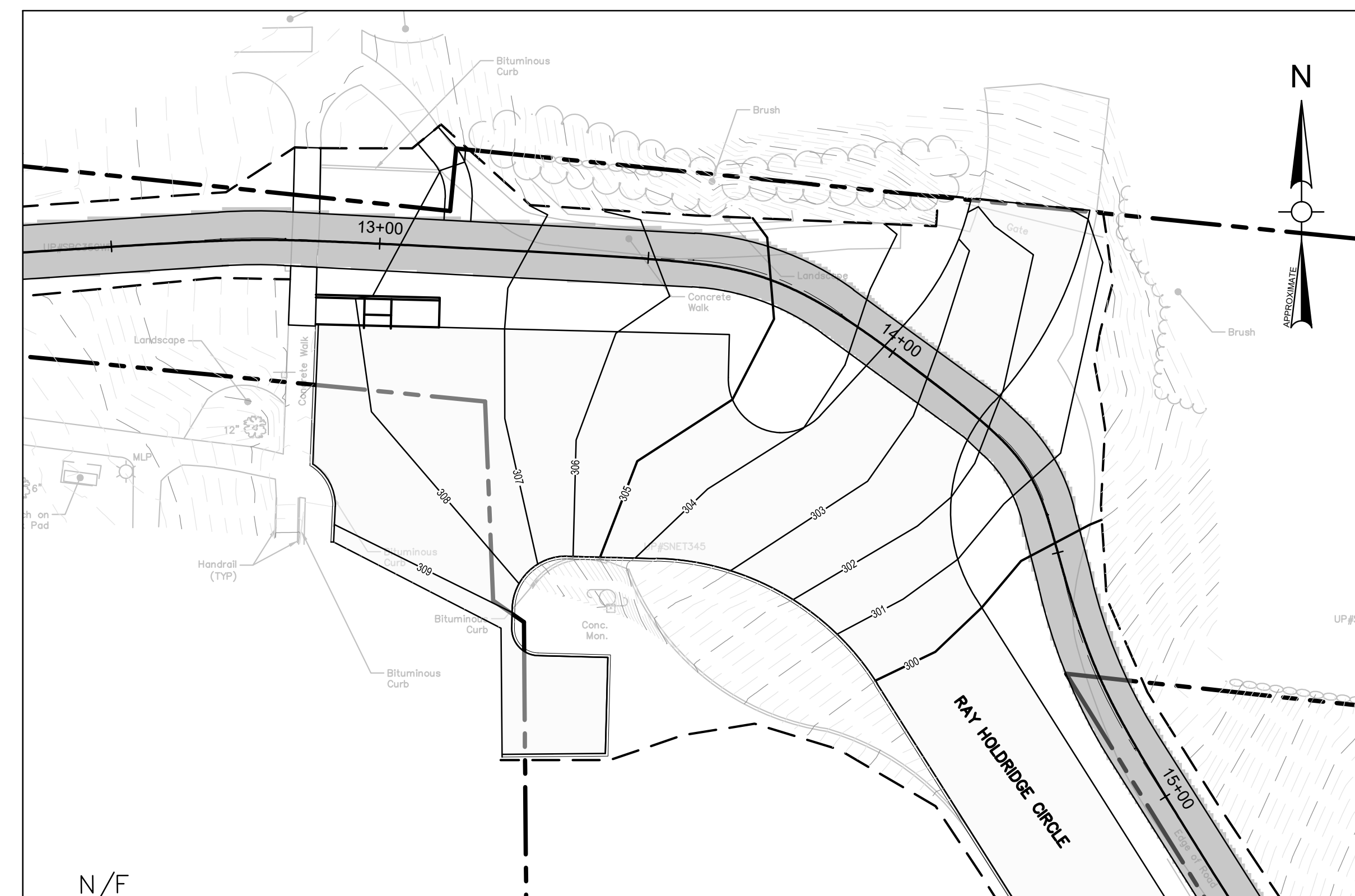
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Drawing Title:


INTERSECTION
GRADING PLANS
RAY HOLDRIDGE CIR
GALLUP HILL RD

Sheet Number:

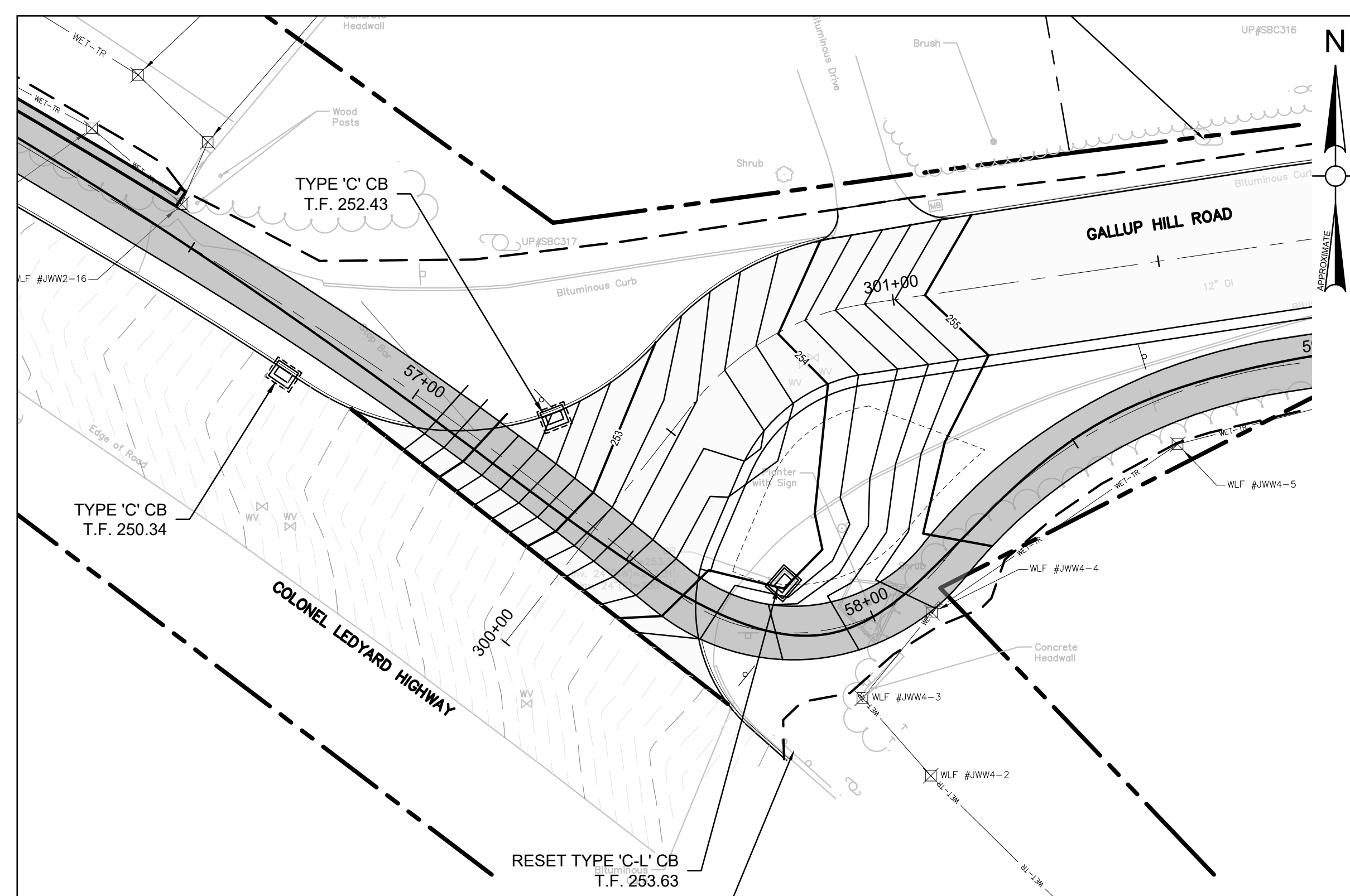
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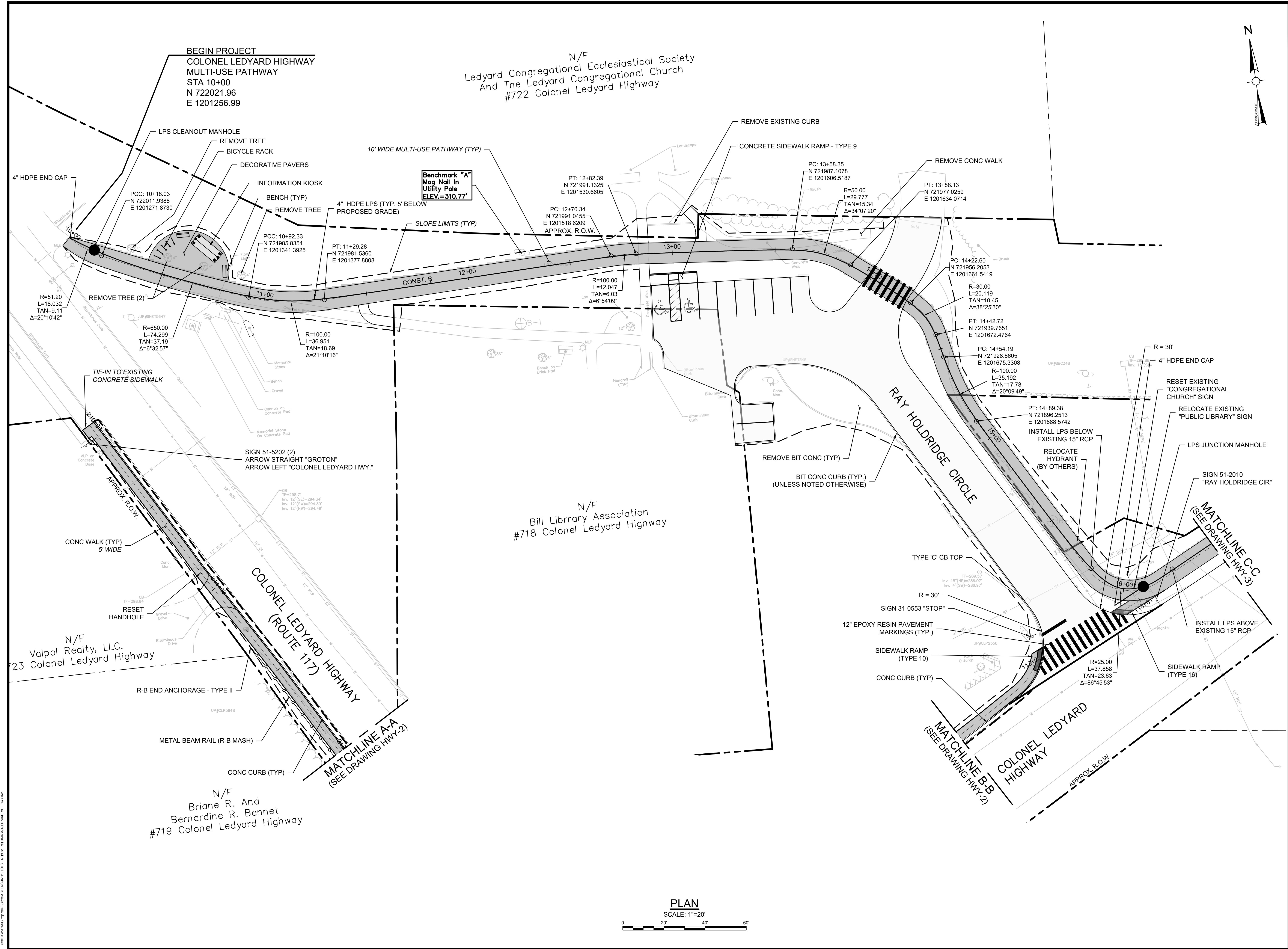
PLAN
SCALE: 1"=20'



RAY HOLDRIDGE CIRCLE




PLAN
SCALE: 1"=20'

GALLUP HILL ROAD



Project:

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W&S Project No.: ENG20-1119

W&S File No.:

Drawing Title:

**MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 10+00 TO 16+50**

Sheet Number:

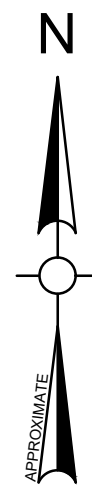
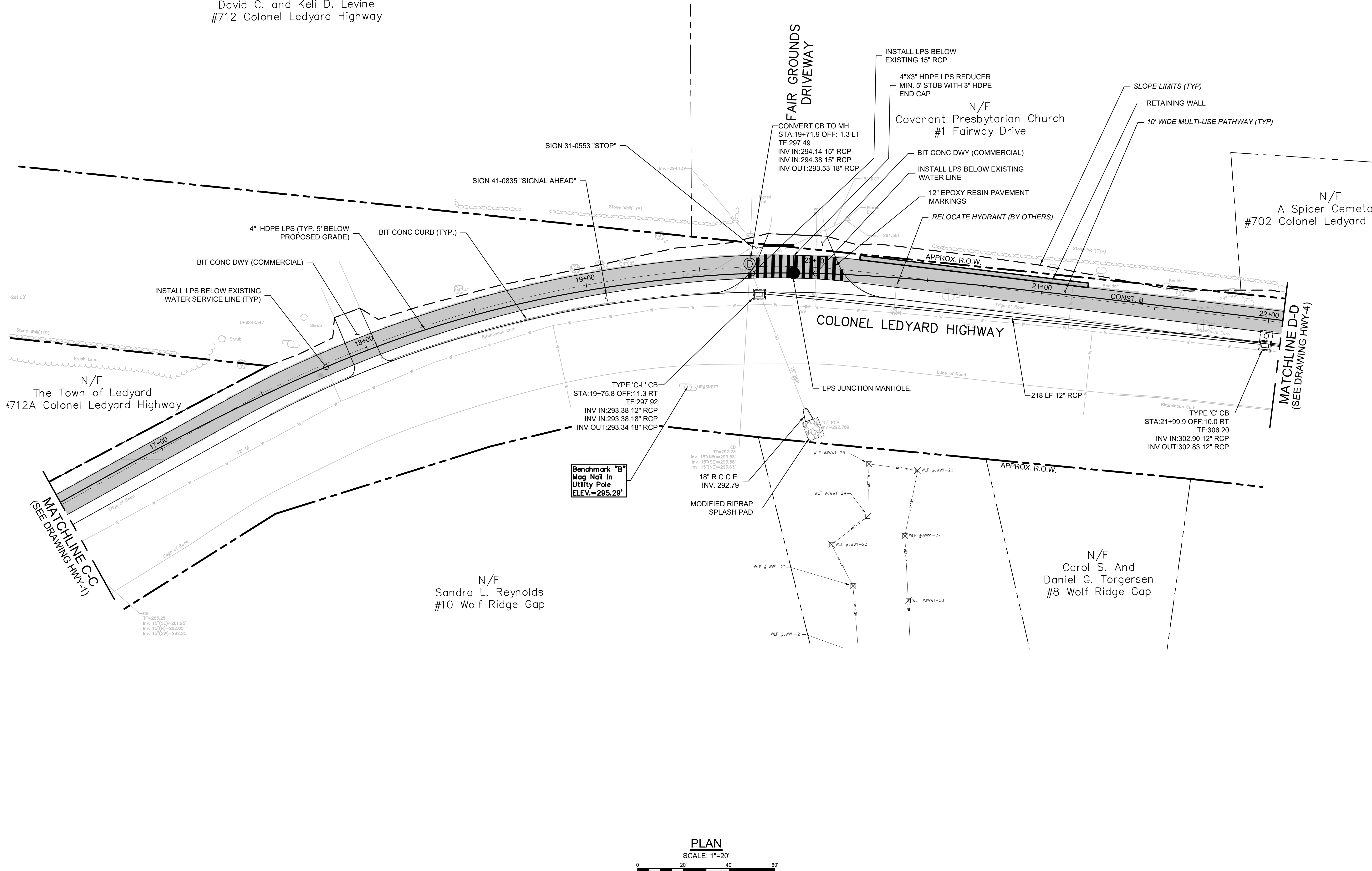
HWY-1

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N/F
David C. and Keli D. Levine
#712 Colonel Ledyard Highway



Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION
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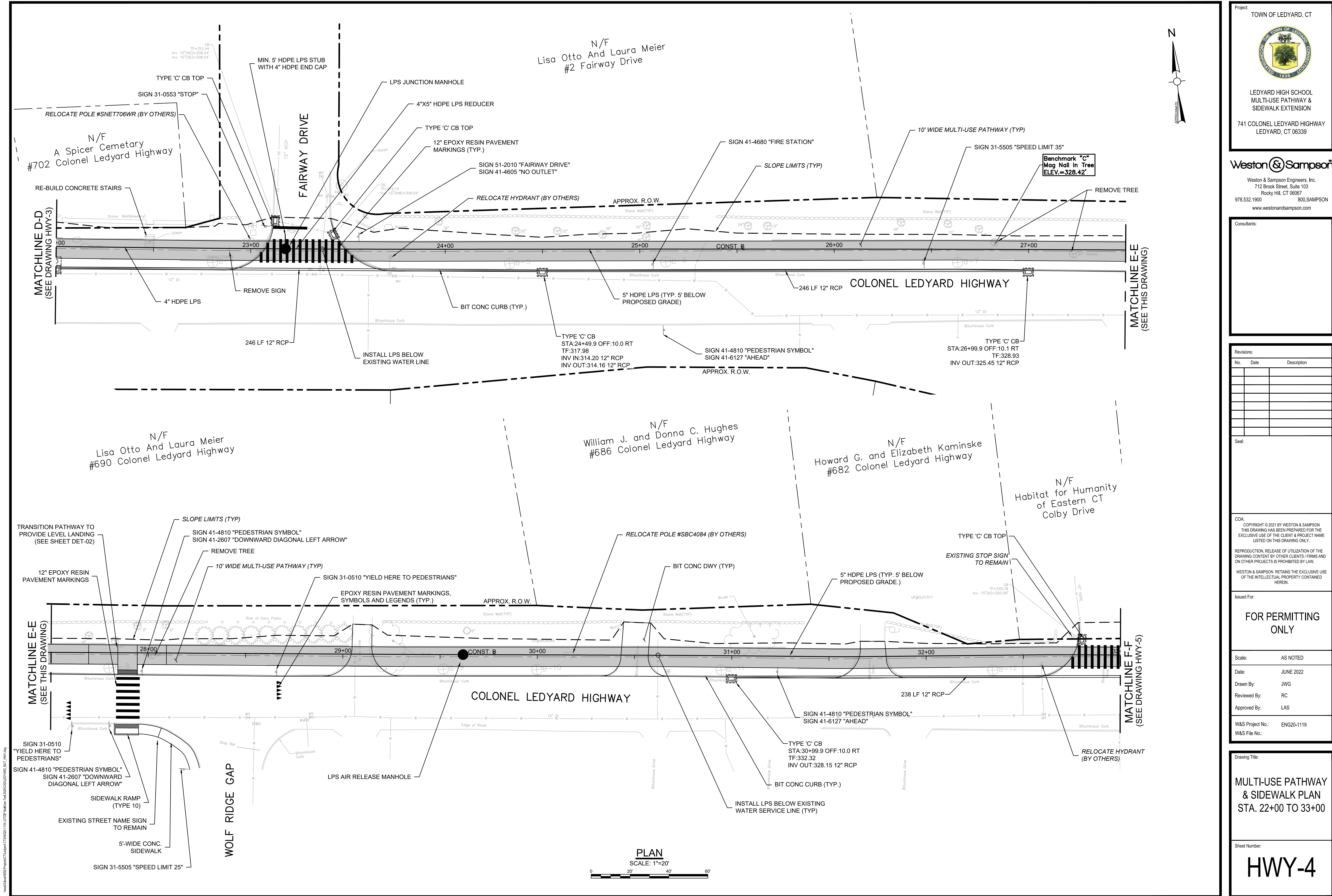
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W&S File No.:

Drawing Title:
**MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 16+50 TO 22+00**
Sheet Number:
HWY-3



Project:
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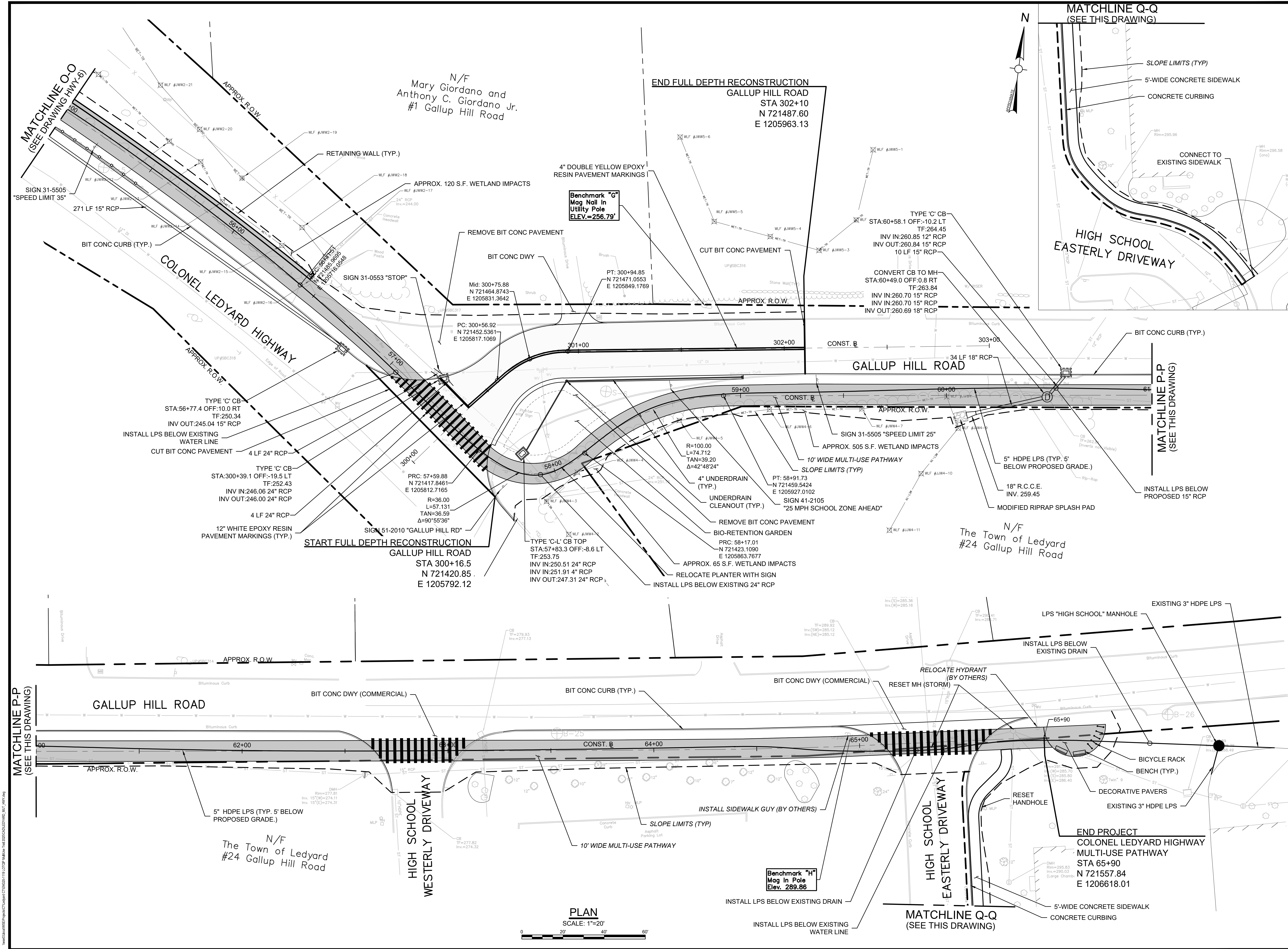
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**MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 22+00 TO 33+00**


Sheet Number:

HWY-4

Rev. 1.6 Date: 04/10/2019



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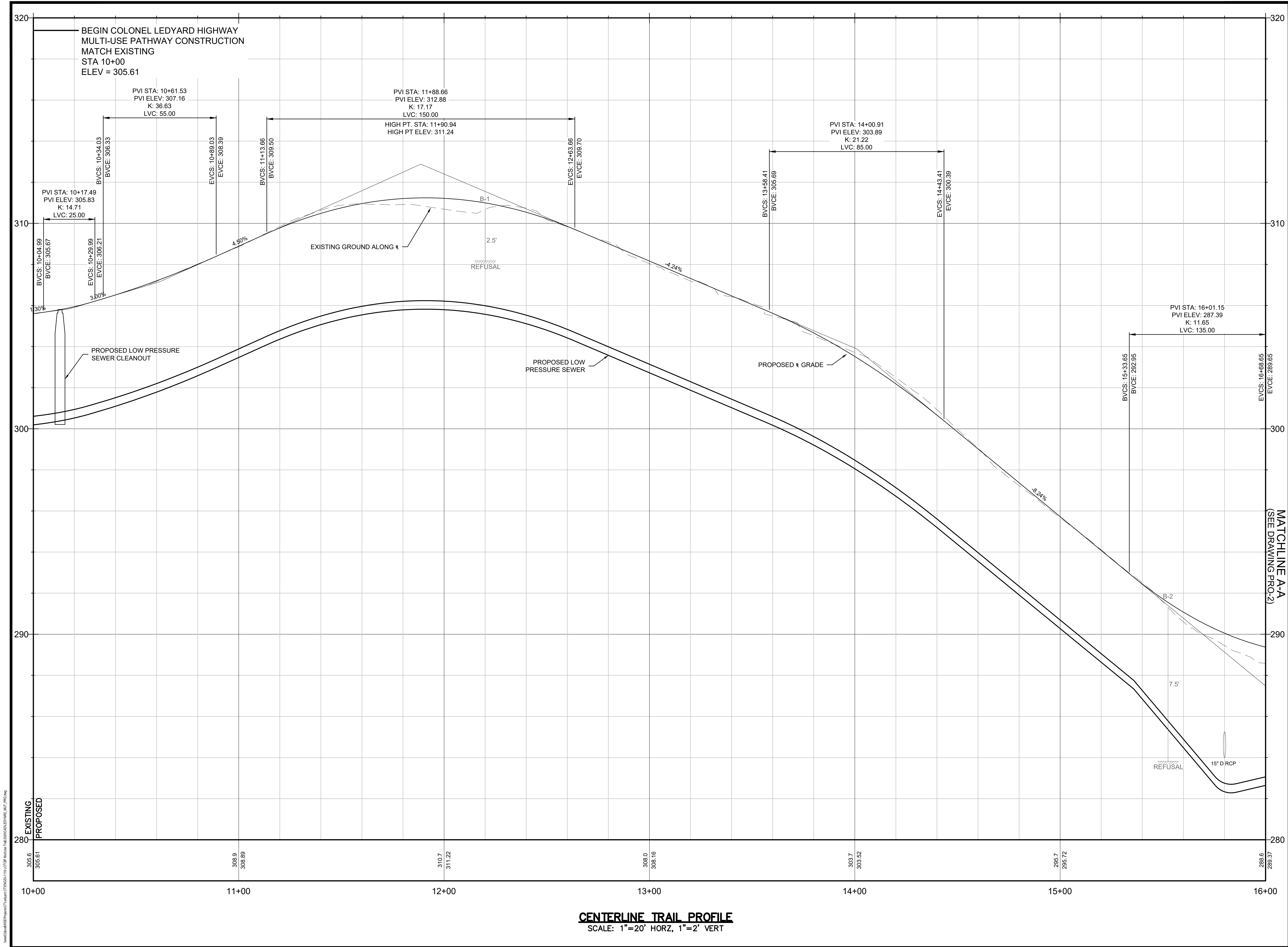
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**MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 55+00 TO 65+90**


Sheet Number:

HWY-7

Rev: 1.6 Date: 04/10/2019



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Drawing Title:

**MULTI-USE PATHWAY
PROFILE
STA. 10+00 TO 16+50**

Sheet Number:

PRO-01

Rev: 1.6 Date: 04/10/2019

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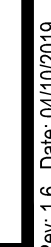
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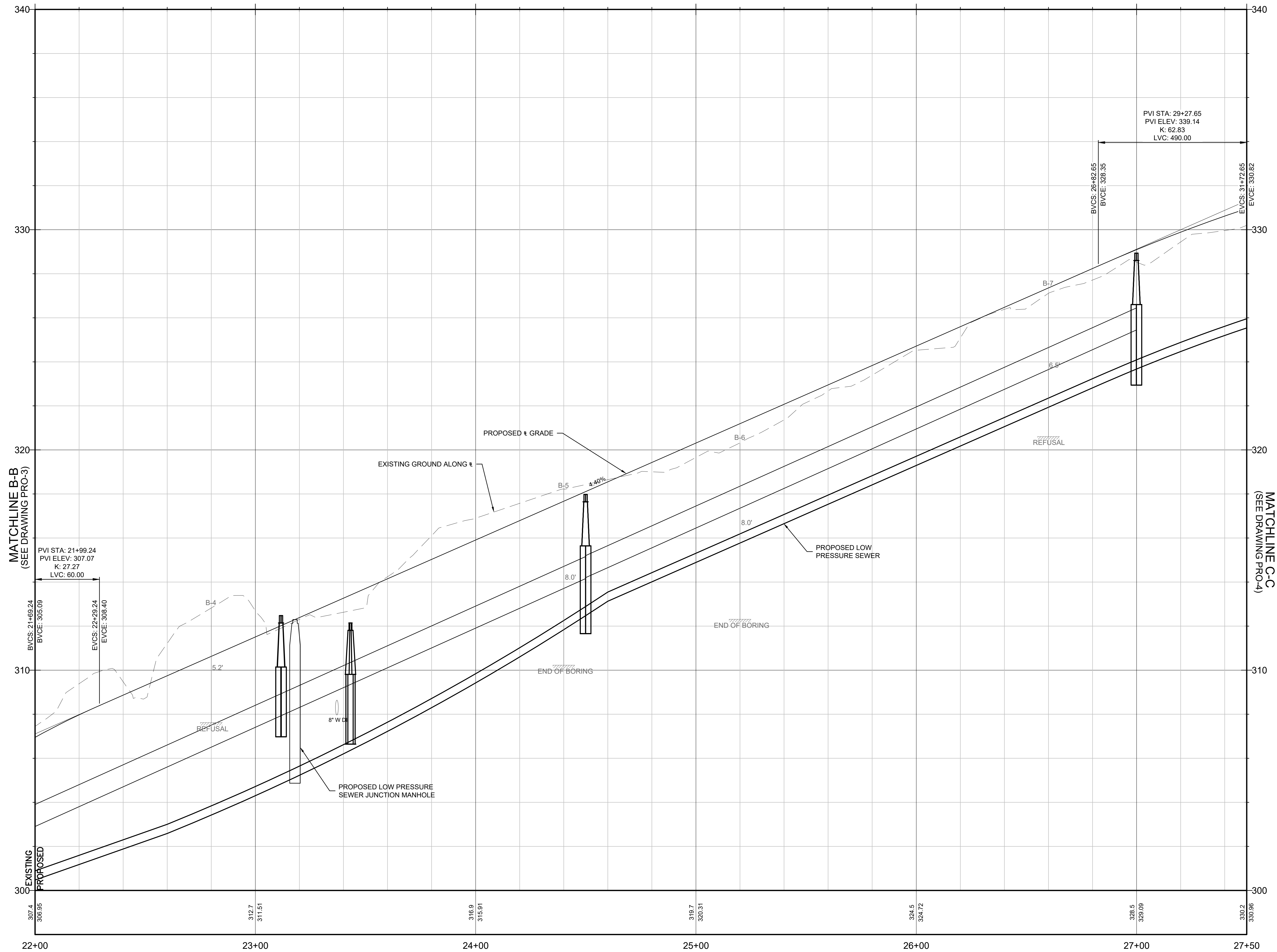
MULTI-USE PATHWAY
PROFILE
STA. 16+50 TO 22+00

Sheet Number:

PRO-02



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CENTERLINE TRAIL PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL
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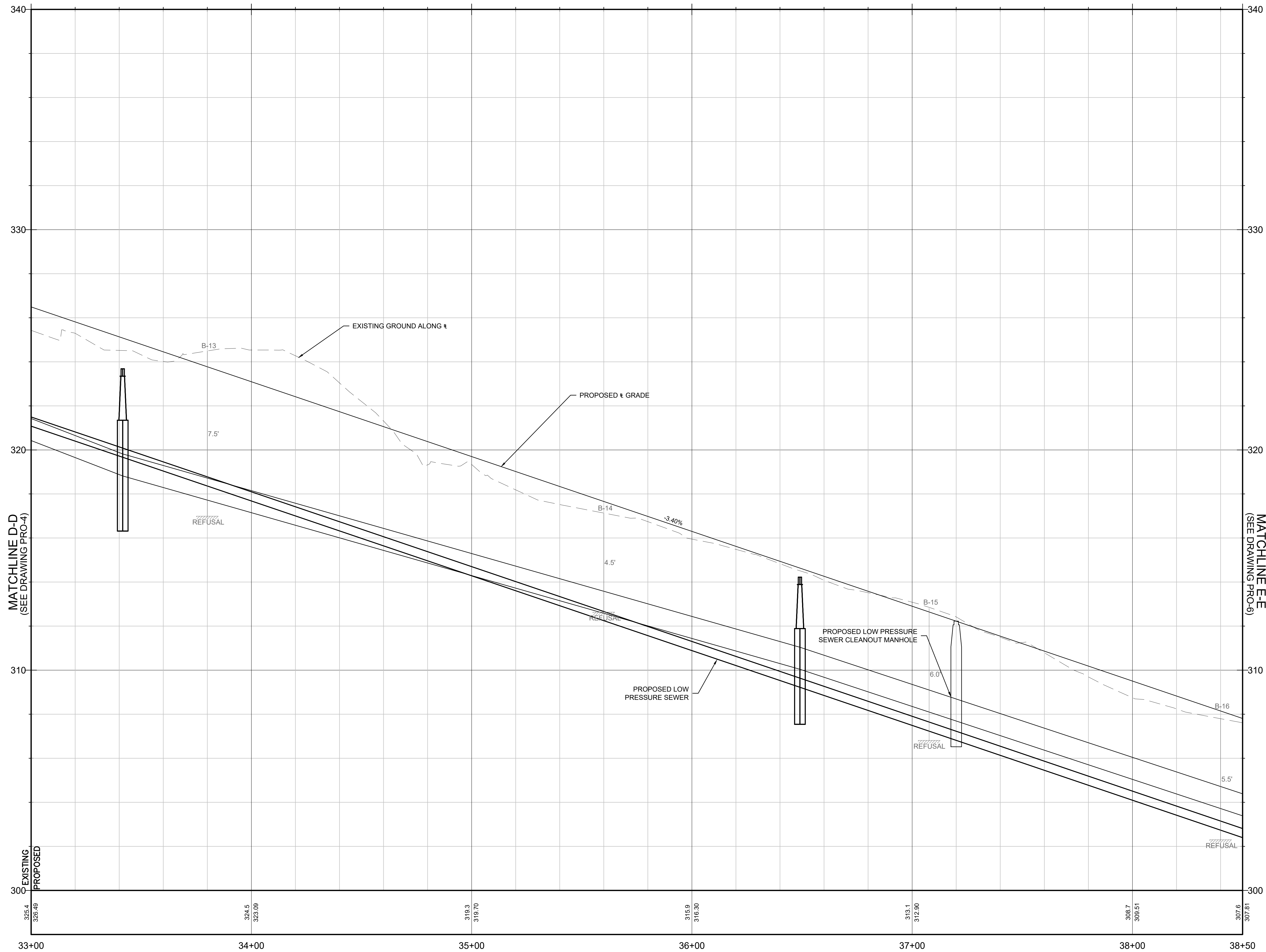
Drawing Title:

**MULTI-USE PATHWAY
PROFILE
STA. 22+00 TO 27+50**

Sheet Number:

PRO-03

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SCALE: 1"=20' HORZ, 1"=2' VERT

Project:
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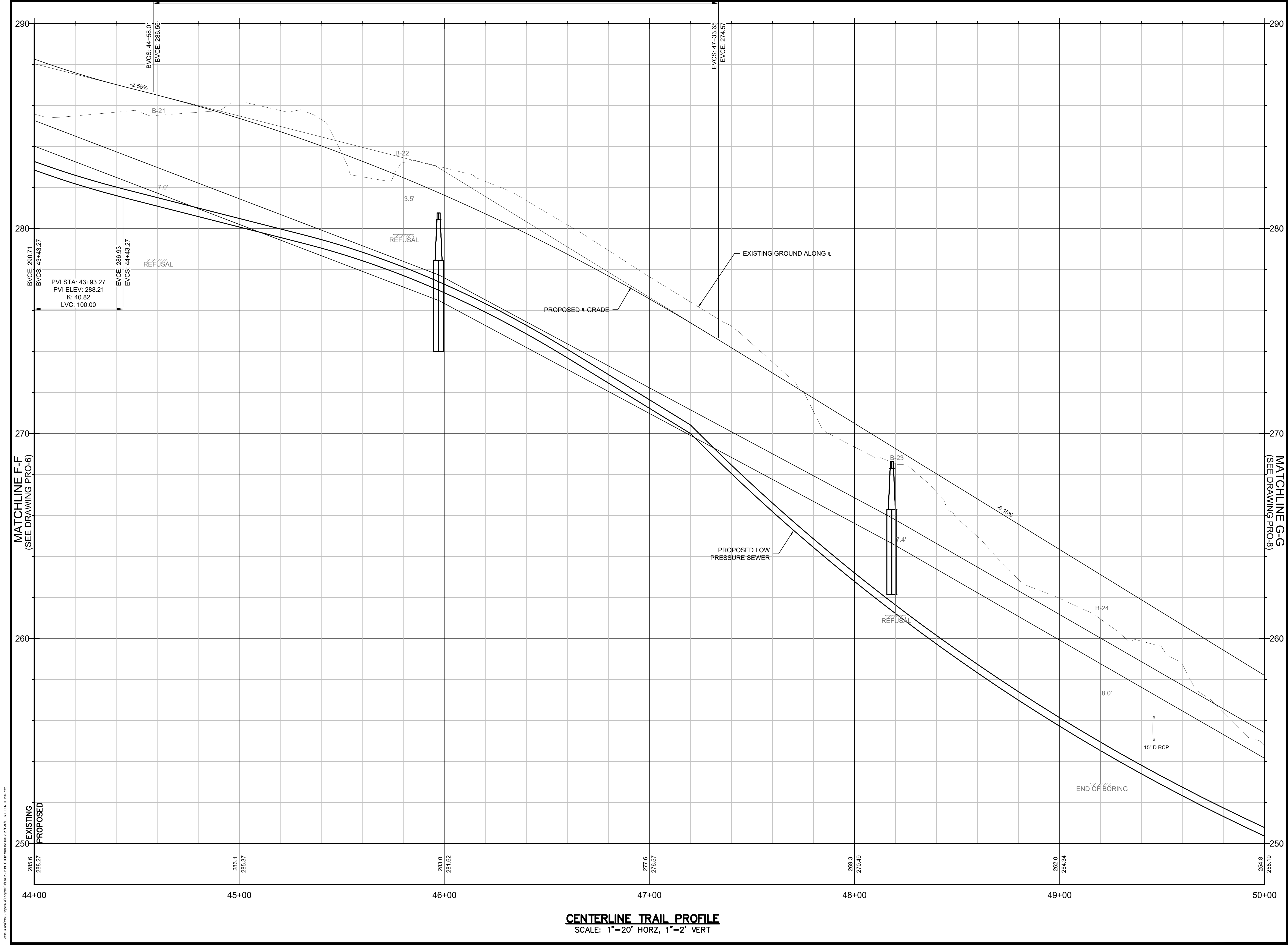
**MULTI-USE PATHWAY
PROFILE
STA. 33+00 TO 38+50**

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PRO-05

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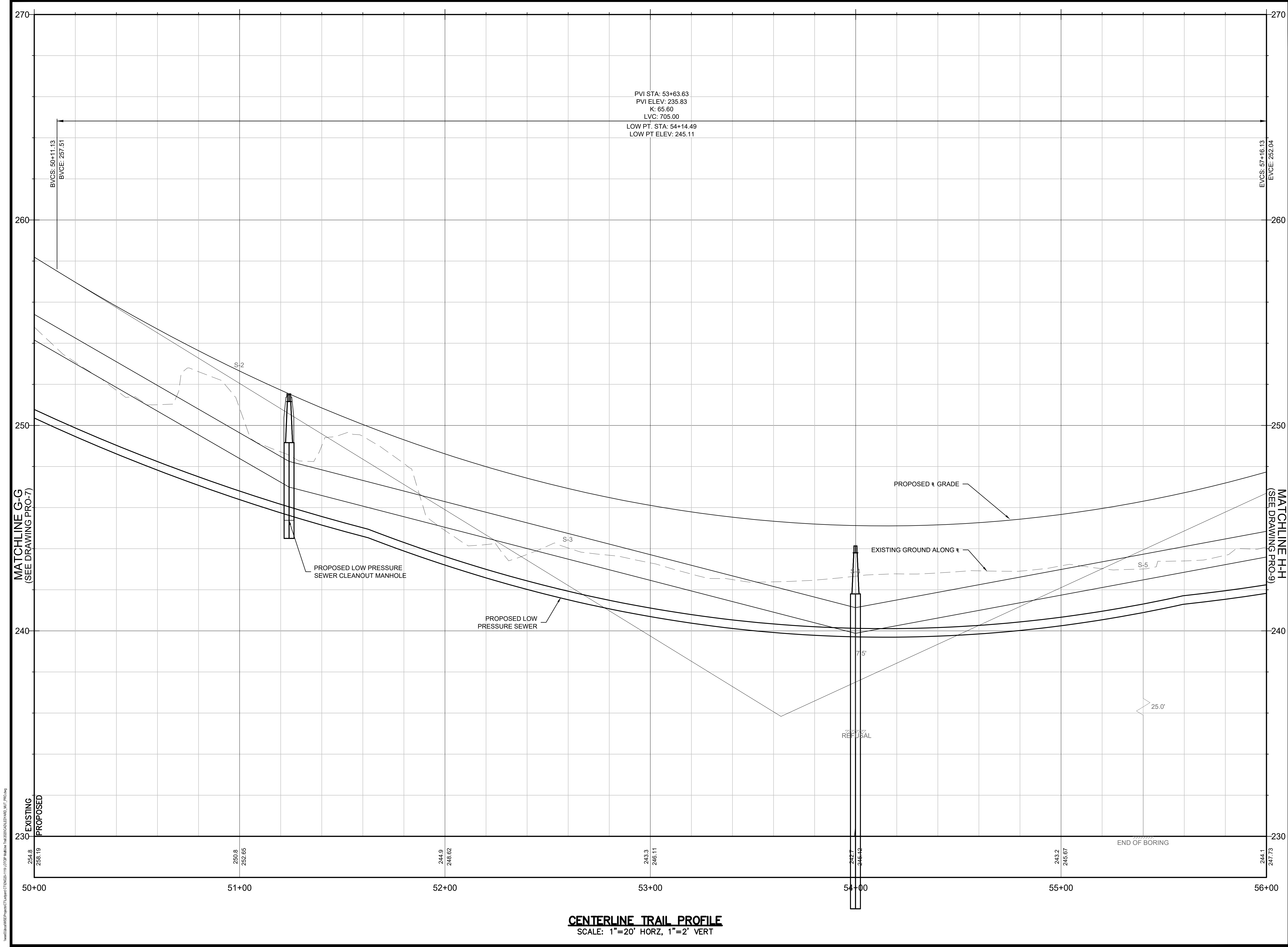
**MULTI-USE PATHWAY
PROFILE
STA. 44+00 TO 50+00**

Sheet Number:


PRO-07

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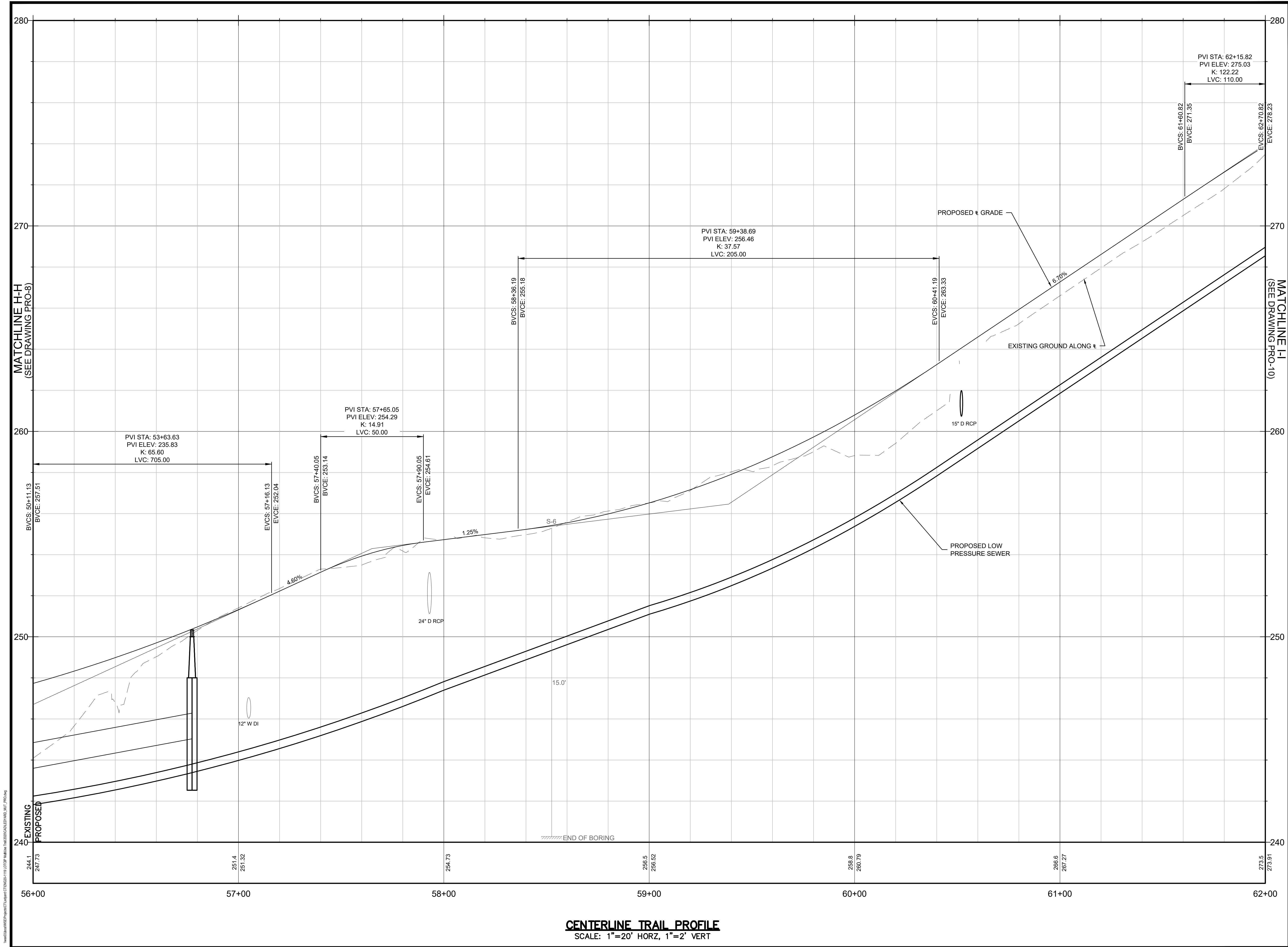
**MULTI-USE PATHWAY
PROFILE
STA. 50+00 TO 56+00**

Sheet Number:


PRO-08

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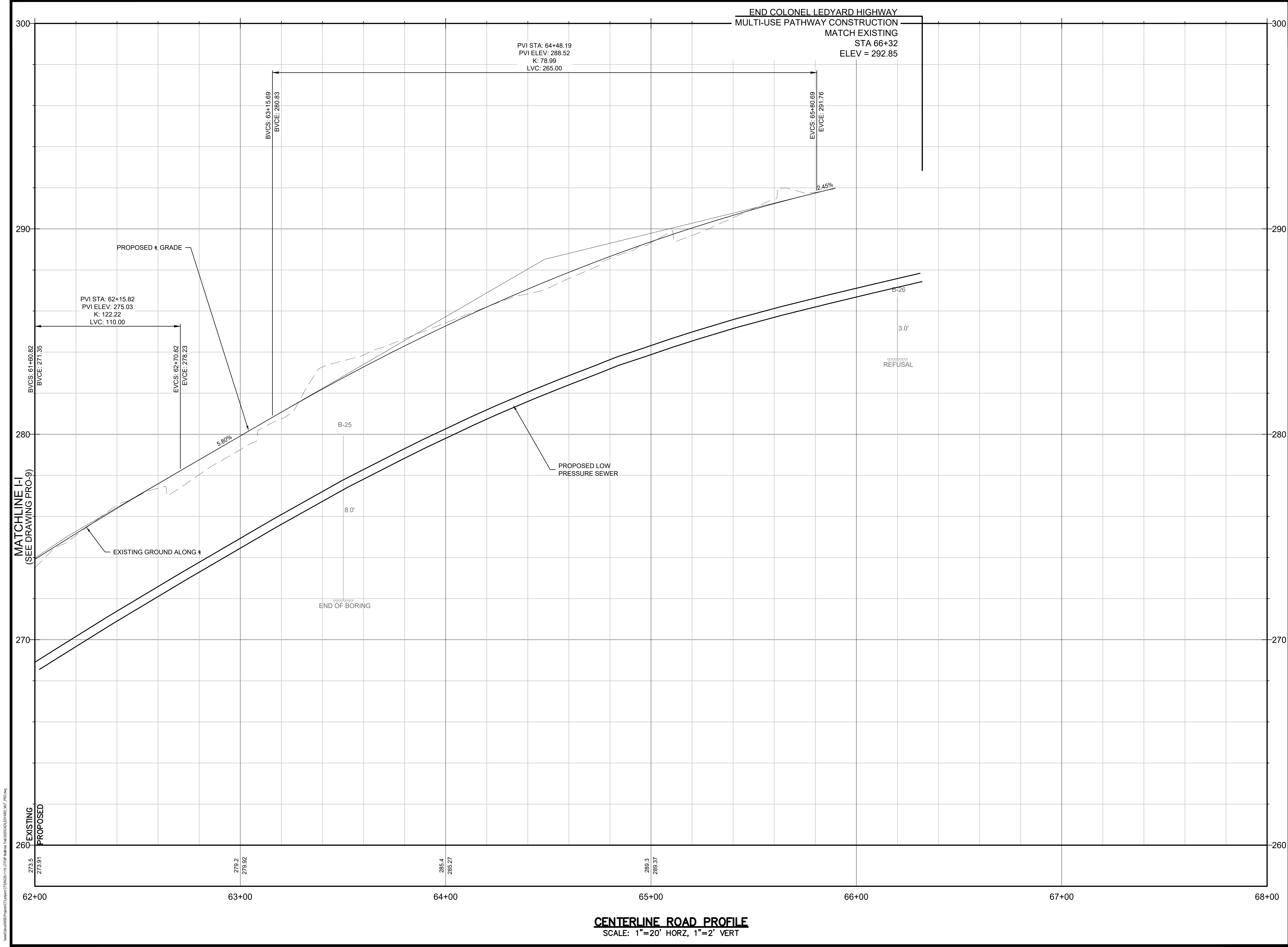
**MULTI-USE PATHWAY
PROFILE
STA. 56+00 TO 62+00**

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PRO-09

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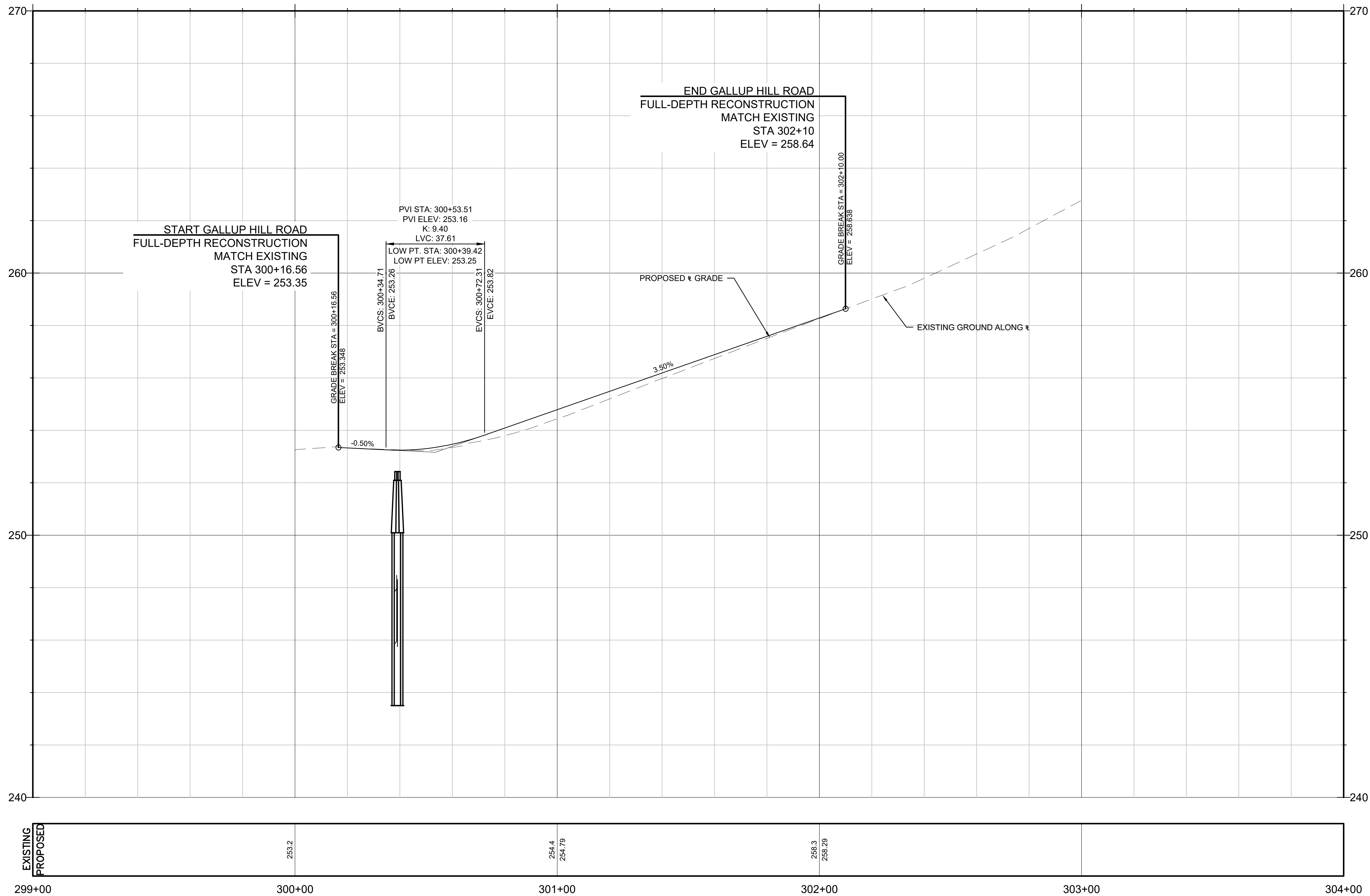
**MULTI-USE PATHWAY
PROFILE
STA. 62+00 TO 68+00**

Sheet Number:

PRO-10

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CENTERLINE ROAD PROFILE
SCALE: 1"=20' HORZ, 1"=2' VERT

Project:
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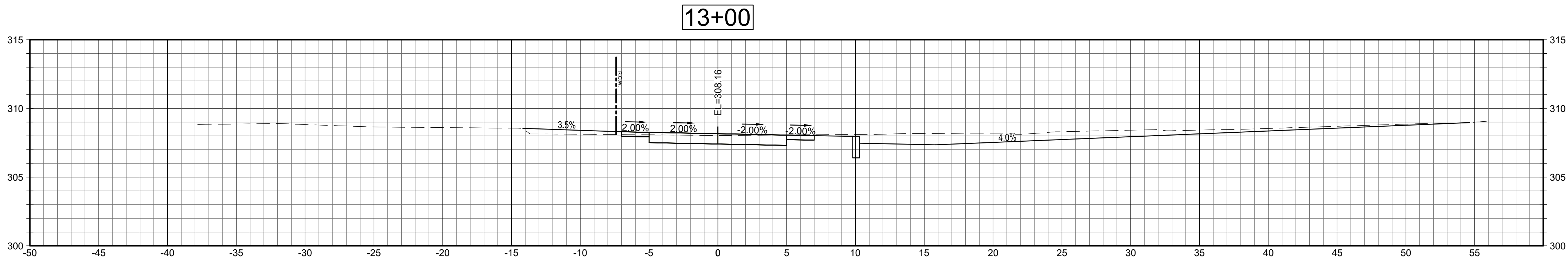
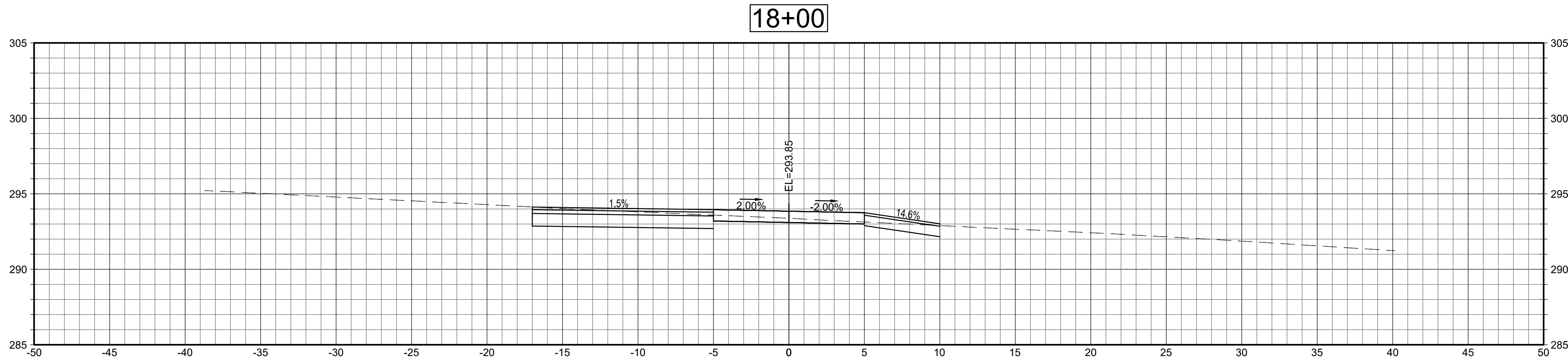
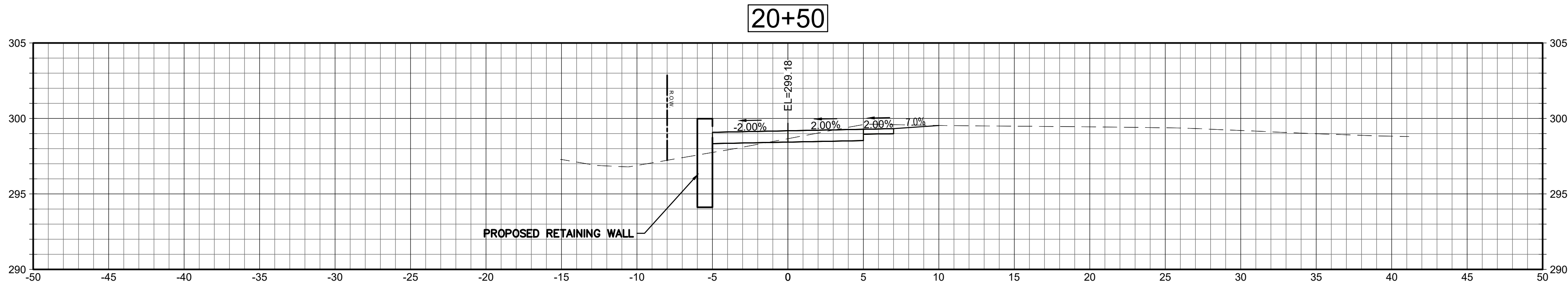
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**GALLUP HILL ROAD
PROFILE
STA. 300+00 TO
303+00**

Sheet Number:

PRO-11

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SECTIONS

SCALE: 1"=5'



Project:
TOWN OF LEDYARD, CT



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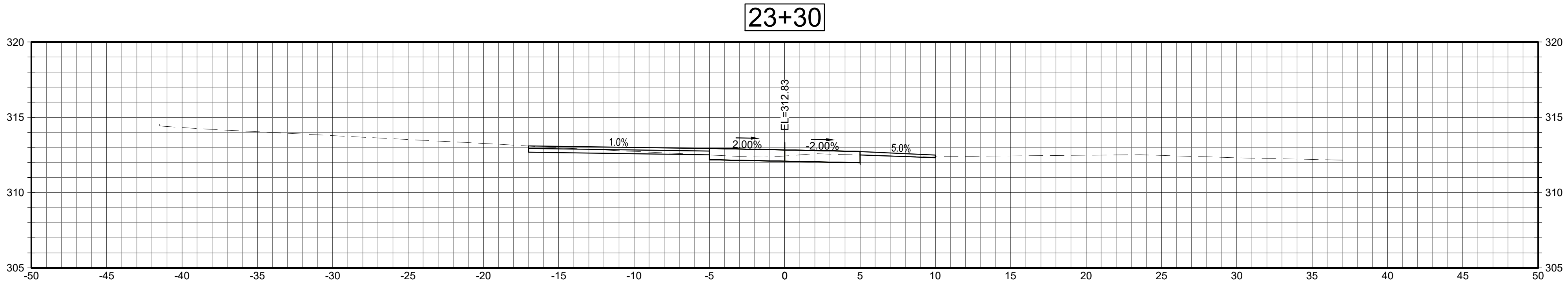
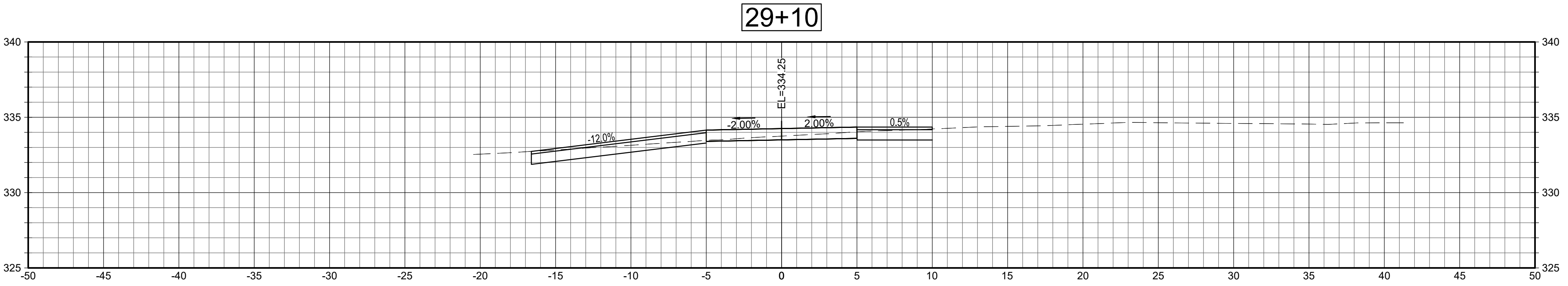
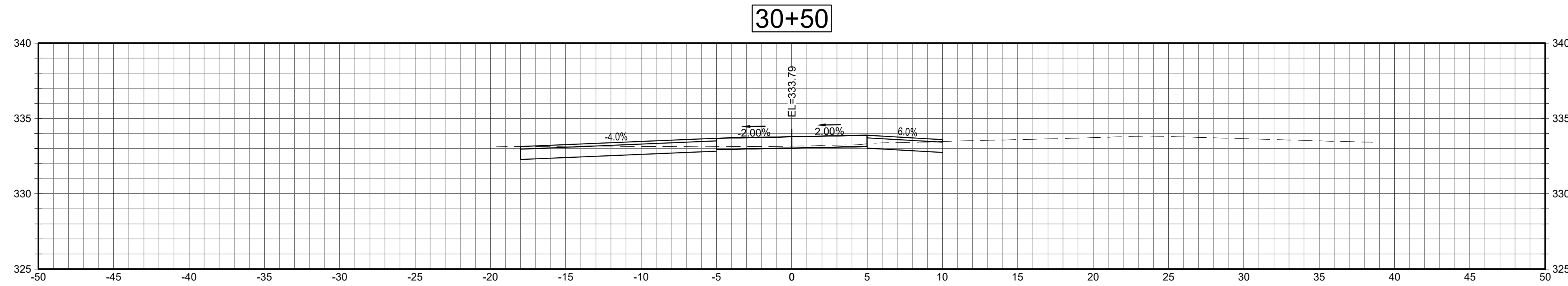
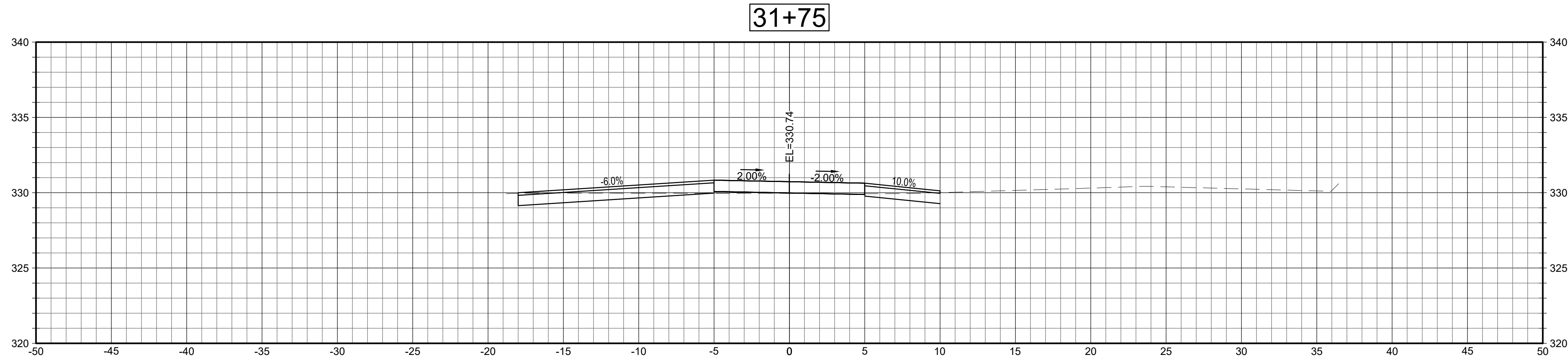
Drawing Title:

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SECTIONS

Sheet Number:

XSC-1

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SECTIONS

SCALE: 1"=5'



Project:
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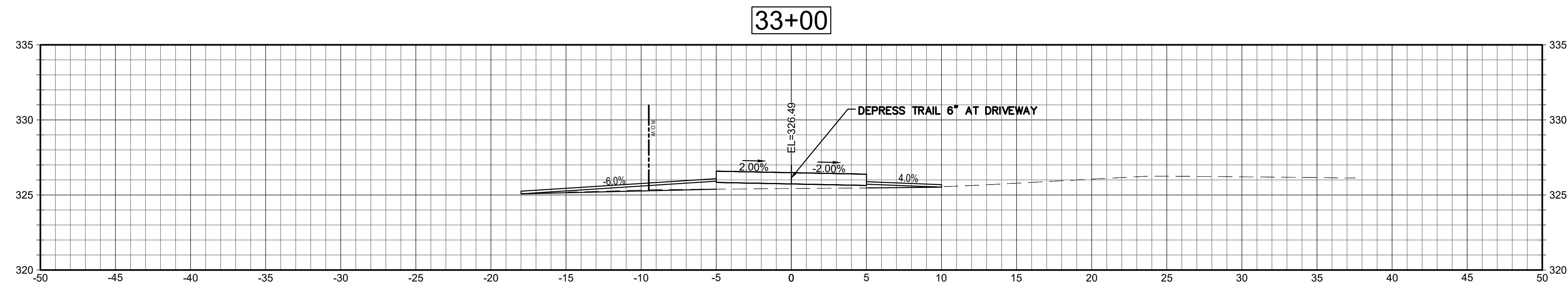
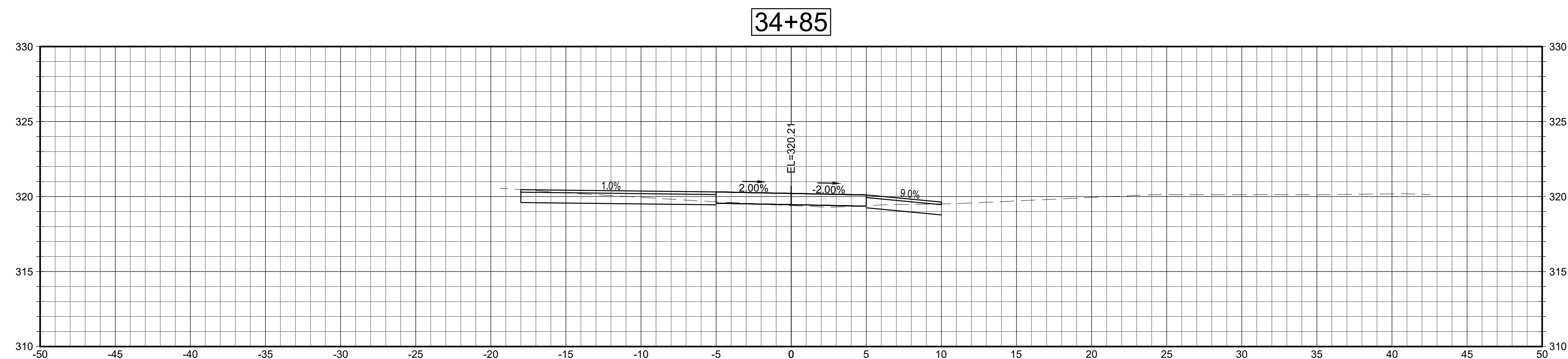
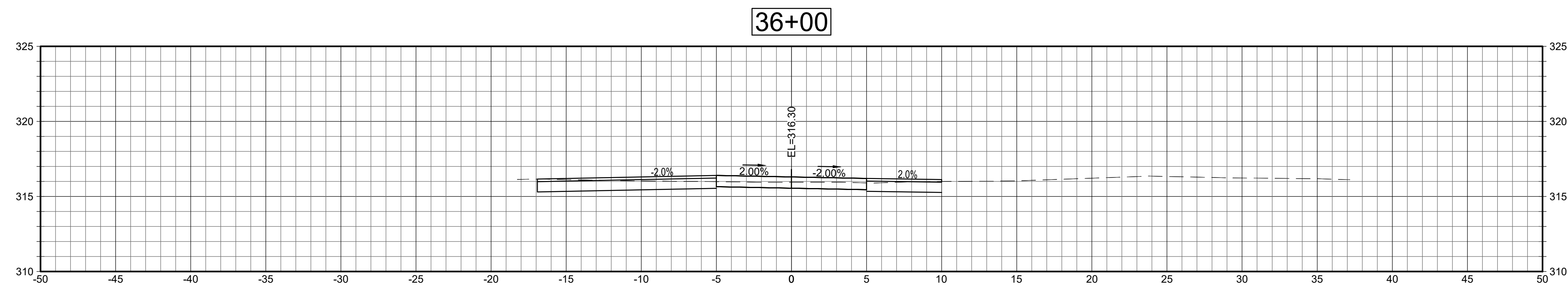
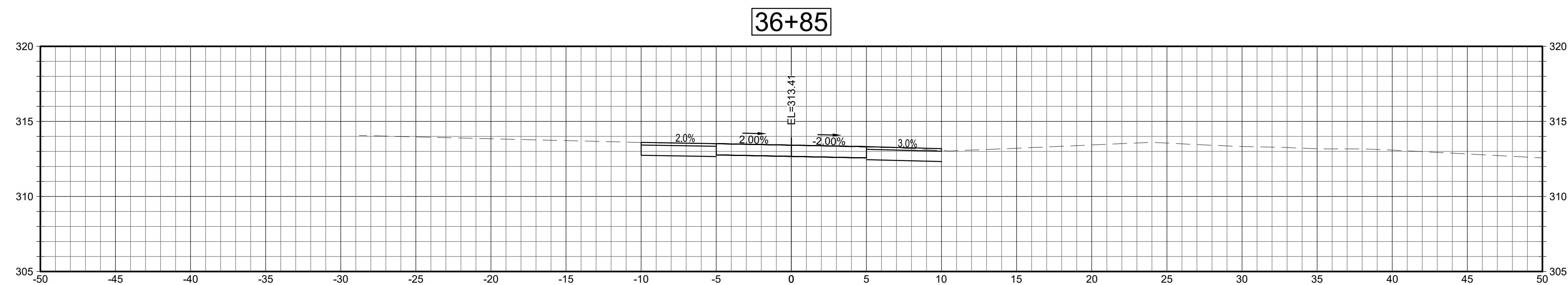
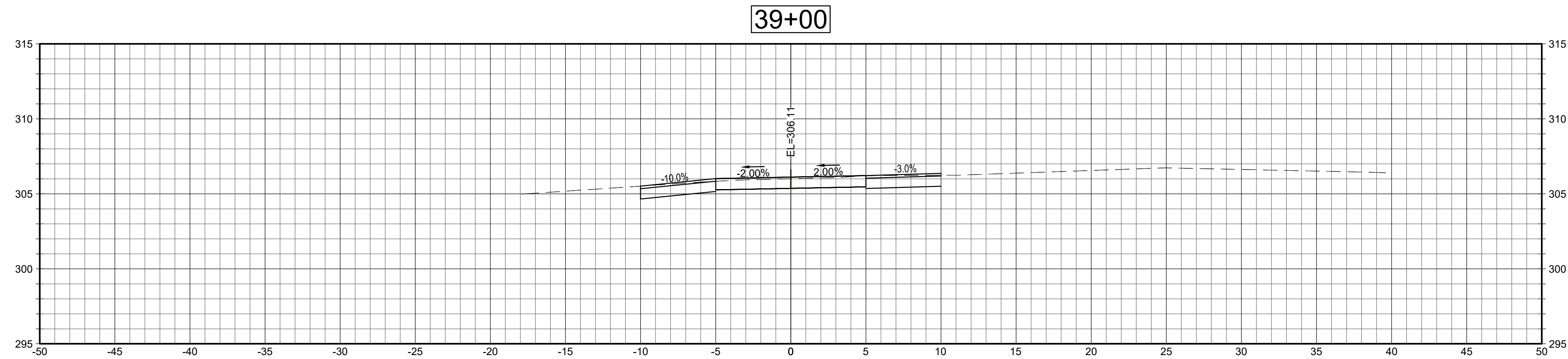
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SECTIONS

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SECTIONS
SCALE: 1"=5'

SCALE: 1"=5'



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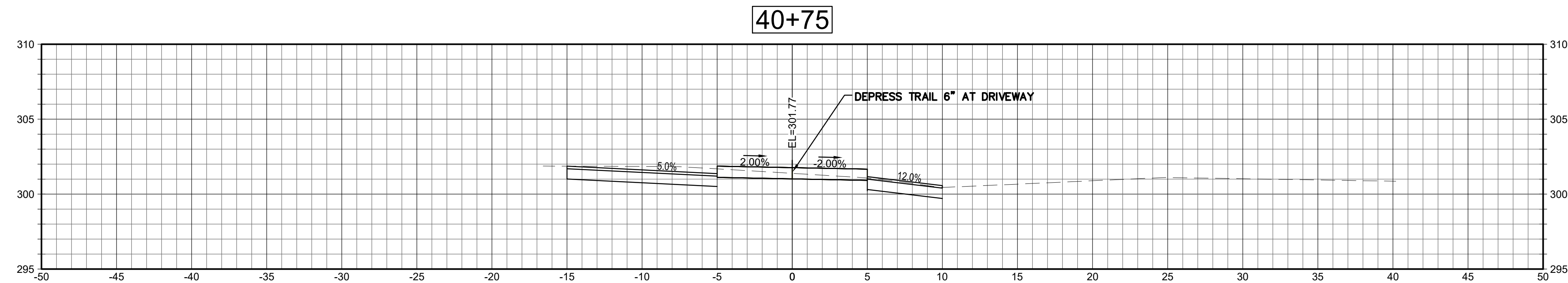
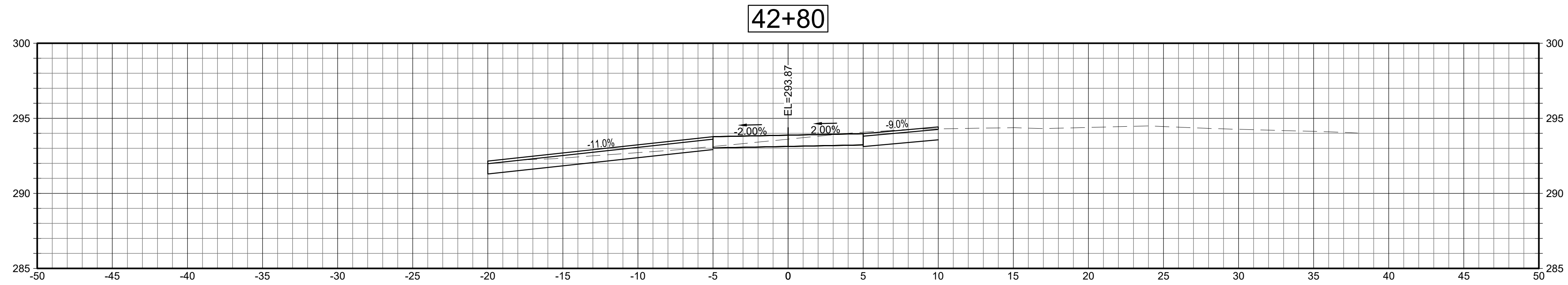
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Project:
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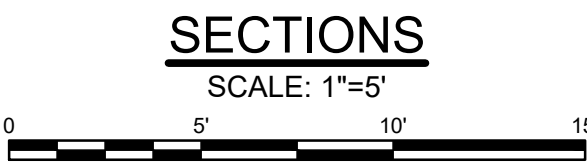
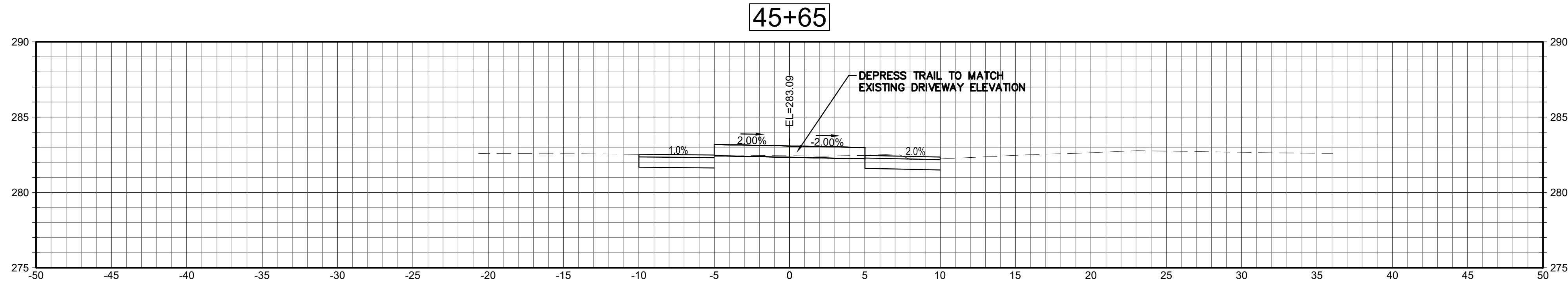
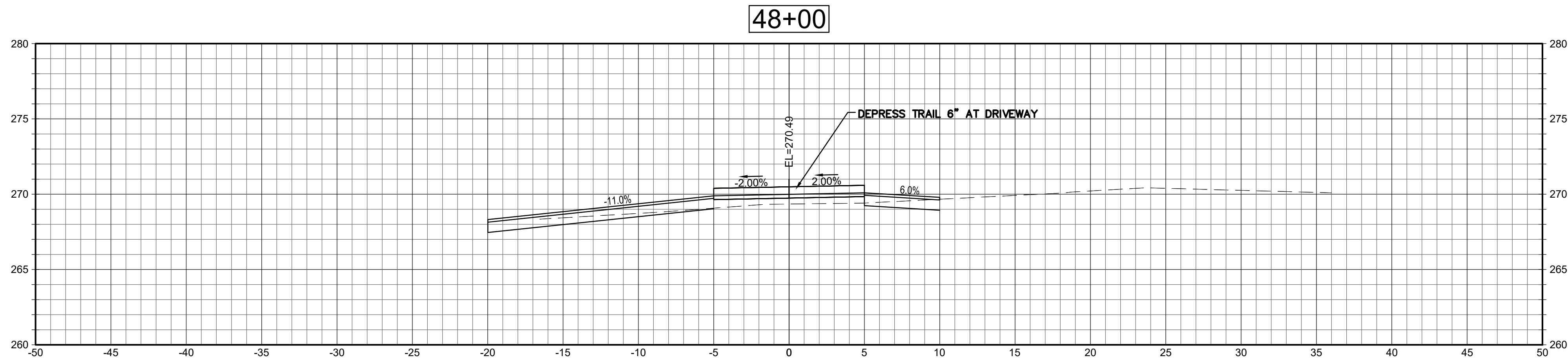
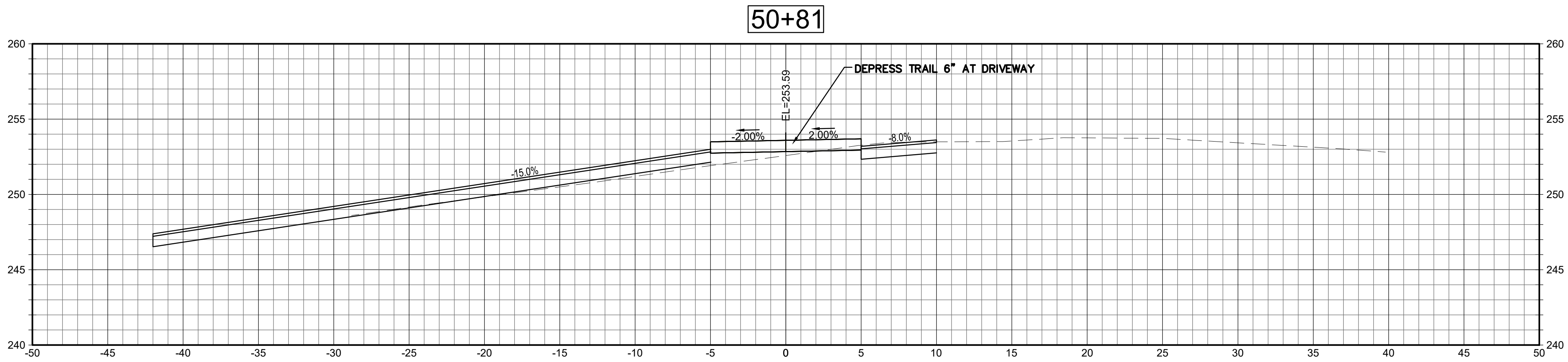
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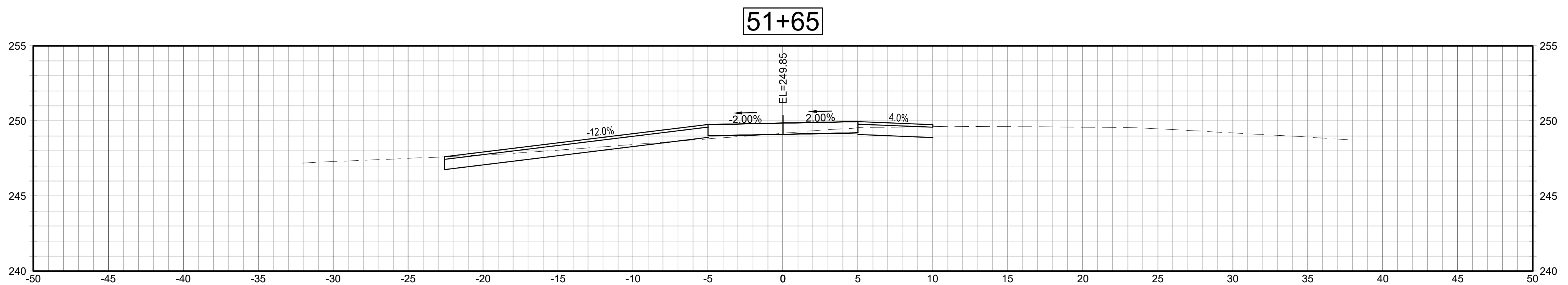
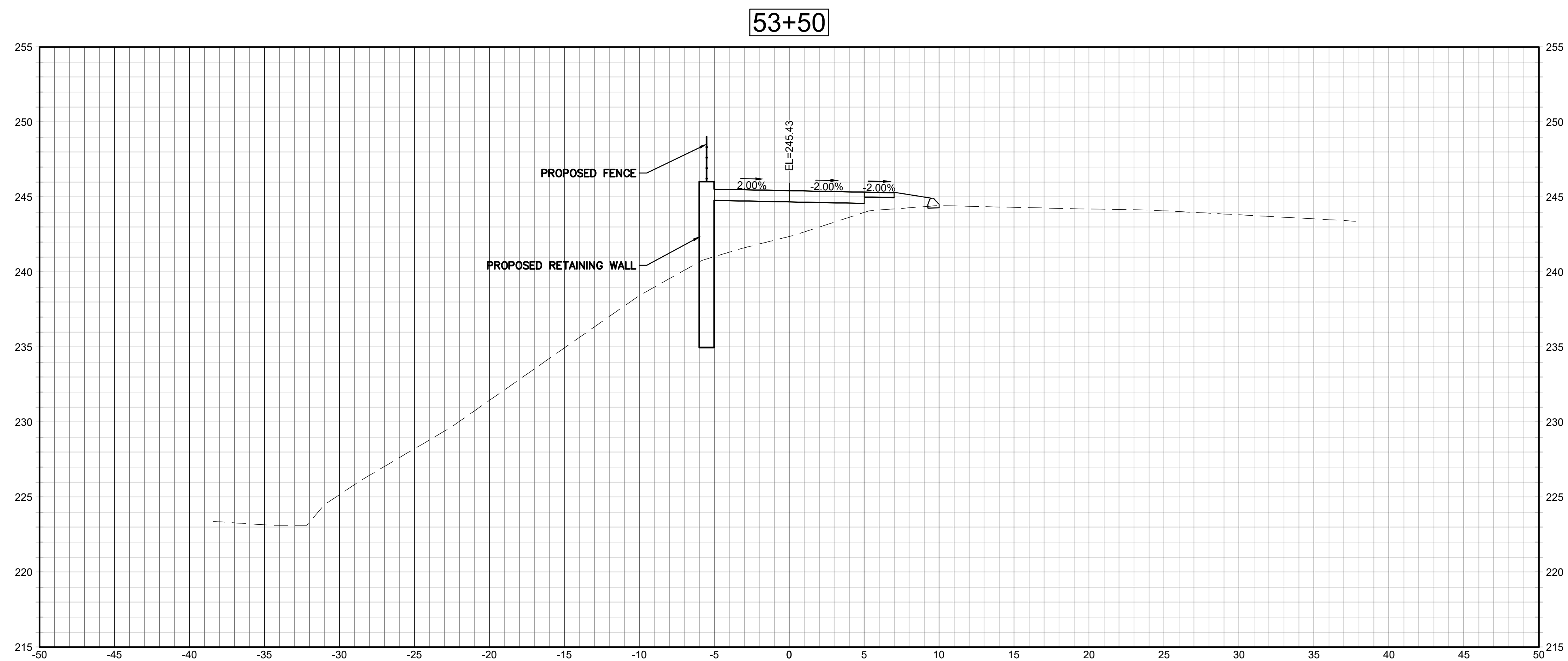
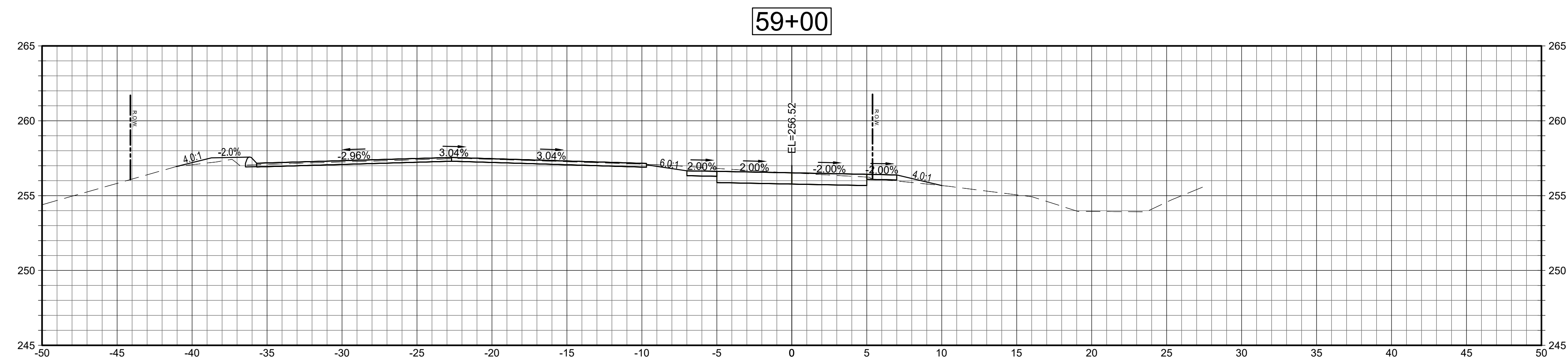
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SECTIONS
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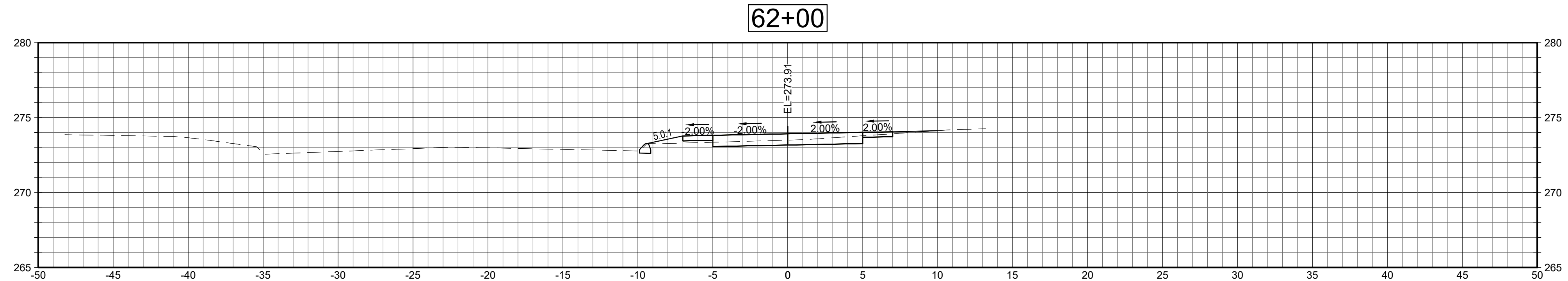
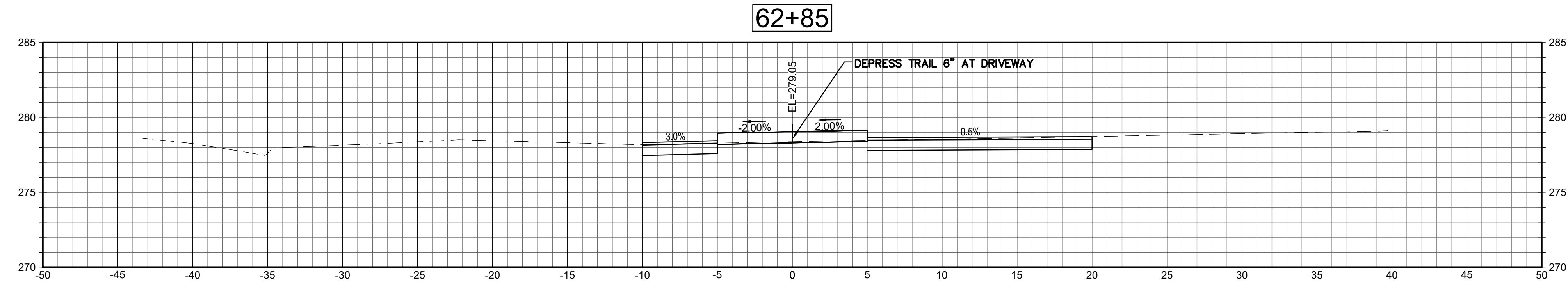
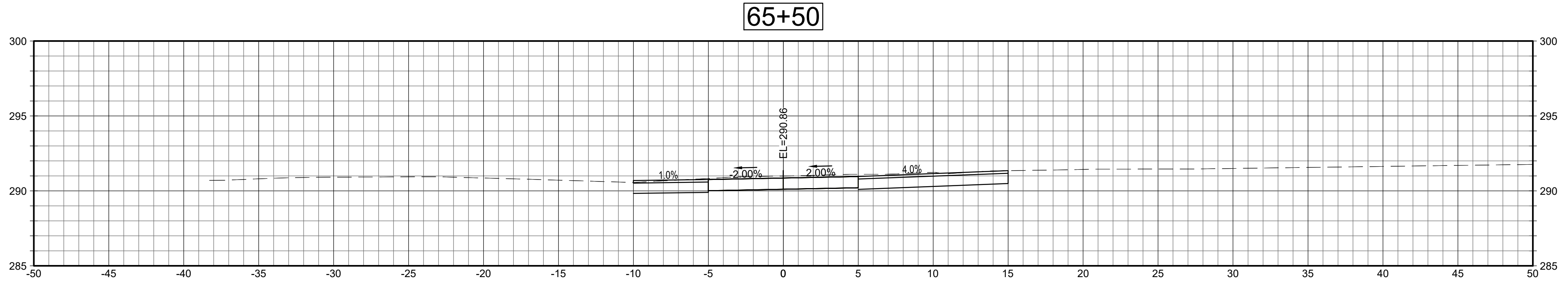
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SCALE: 1"=5'

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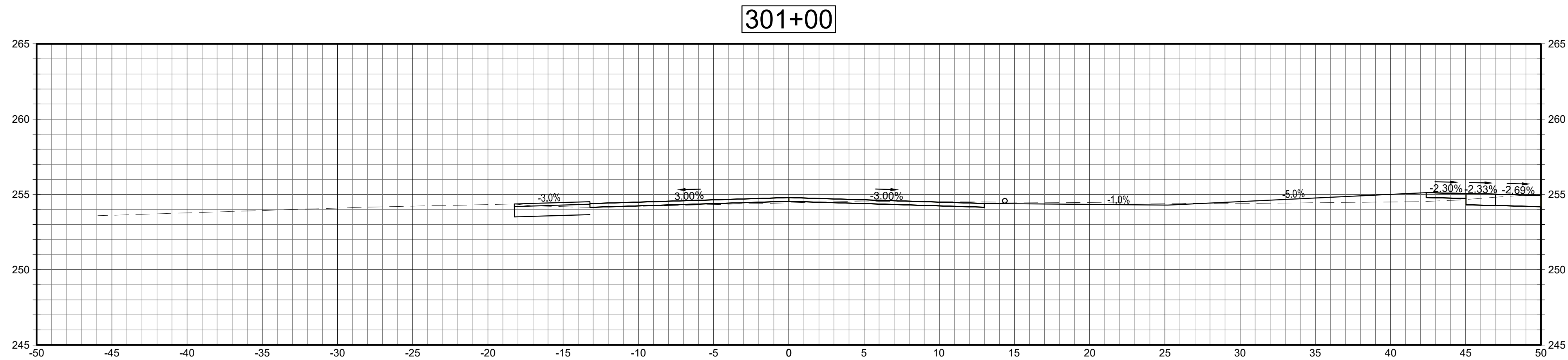
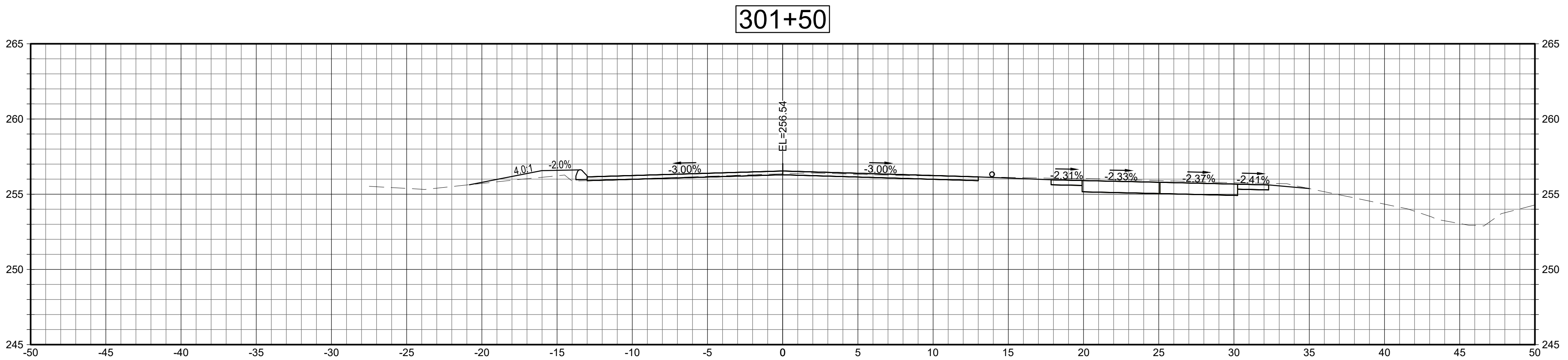
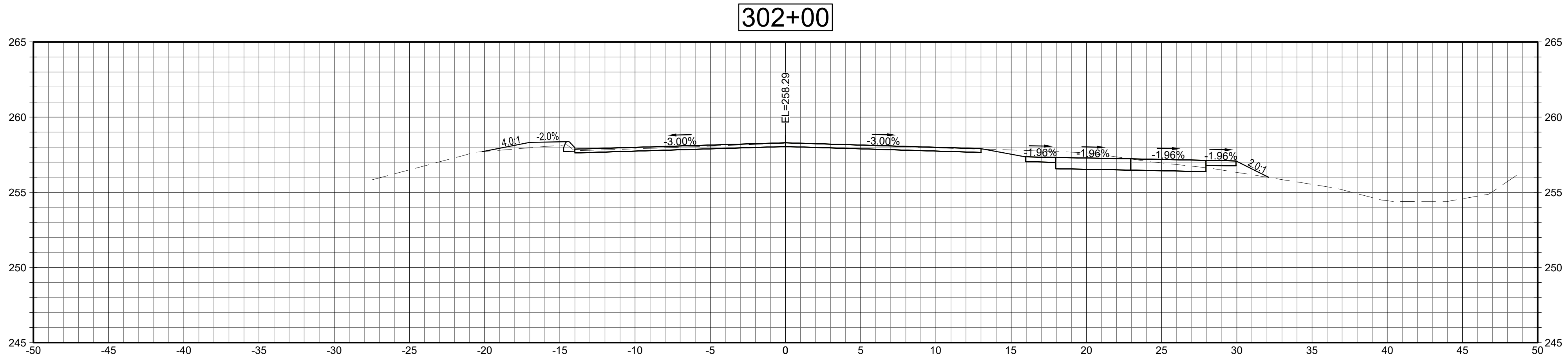
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