

PROJECT LOCATION PLAN

SCALE: 1" = 1000'

<u>SHEET NAME</u>	<u>SHEET TITLE</u>
GEN-01	INDEX PLANS, LEGENDS, AND NOTES
DET-01	SEDIMENTATION AND EROSION CONTROL DETAILS
DET-02	MISCELLANEOUS DETAILS
DET-03	HYDRODYNAMIC SEPARATOR DETAILS
DET-04 - DET-05	LOW PRESSURE SEWER DETAILS
TYP-01	MULTI-USE PATHWAY AND SIDEWALK TYPICAL SECTIONS
TYP-02	ROADWAY TYPICAL SECTIONS
IGP-01	INTERSECTION GRADING PLANS
HWY-01	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 10+00 TO 16+50
HWY-02	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 211+50 TO 214+96 & STA. 110+00 TO 112+50
HWY-03	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 16+50 TO 22+00
HWY-04	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 22+00 TO 33+00
HWY-05	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 33+00 TO 44+00
HWY-06	MULTI-USE PATHWAY & SIDEWALK PLAN STA. 44+00 TO 55+00
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



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:
ENGINEERS, INC.
STREET, SUITE 103
HILL, CT 06067**

FRED ALLYN, III
MAYOR

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

FOR PERMITTING ONLY

CT. LIC. NO. XXXXX
MARCH 15, 2019

The logo for 811 features the number '811' in a large, bold, black font. Below the '11' is a white shovel icon pointing upwards. The entire logo is set against a black background.

Weston & SampsonSM

Weston & Sampson Engineers, Inc.

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CONSTRUCTION NOTES:

GENERAL:

- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS, IN ACCORDANCE WITH THE MINIMUM AND MAXIMUM SLOPES SPECIFIED.
- 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.
- 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.

- 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.

- 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.

- 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.

- THE CONTRACTOR SHALL COMPLETE ALL LAYOUTS, SURVEYS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AS SHOWN AND AS SPECIFIED.

- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE PROPER STORM DRAINAGE AND SANITARY FLOWS ARE MAINTAINED THROUGHOUT THE CONSTRUCTION DURATION.

- 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.

- REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
- 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:

- DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.
- NO WORK WILL BE ALLOWED TO BE PERFORMED ON SUNDAY AND ON ALL TOWN HOLIDAYS WITHOUT TOWN AUTHORIZATION.
- 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:

- 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.
- 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.
- PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY, PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND LOCAL REQUIREMENTS.

EROSION AND SEDIMENT CONTROL:

- THE CONTRACTOR SHALL INSTALL SPECIFIED EROSION AND CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
- 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.
- REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS AND DETAILS.
- 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.
- 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".

- INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER MAJOR RAINFALL EVENTS, DISPOSE OF SEDIMENT IN AN UPLOAD AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 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:

- 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.

- 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.

- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER AND SHALL BE PAID FOR UNDER ITEM "TEST PIT".

- TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.

- THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.

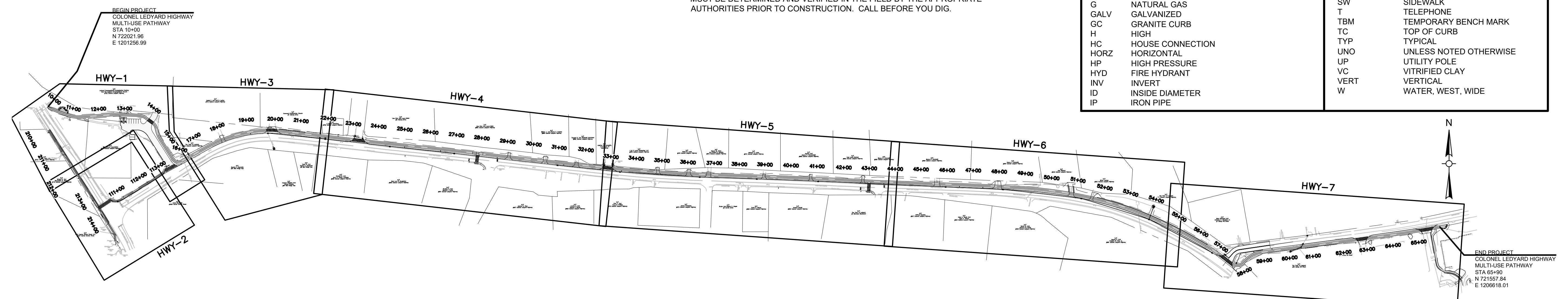
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC., WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.

- RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH WITH FINAL GRADES.

- EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.

SURVEY NOTES:

- 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.
- PROPERTY LINES AND RIGHT OF WAY LINES DEPICTED, WERE DEVELOPED VIA GIS AND TAX MAPS AND ARE APPROXIMATE ONLY.
- 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.
- SURVEY PERFORMED BY WESTON & SAMPSON LAND SURVEYORS, INC. IN MARCH, 2021.
- 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.



INDEX PLAN - COLONEL LEDYARD HIGHWAY

MULTI-USE PATHWAY

SCALE 1"=200'

LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	8" PVC SAN.	8" PVC SAN.	FENCE	— X —	— X —
WATER MAIN	W	W	INDIVIDUAL DECIDUOUS TREE	○	○
STORM DRAIN	D	—	INDIVIDUAL EVERGREEN TREE	○	○
ELECTRIC	E	—	TREE LINE	—	—
TELEPHONE	T	—	BUSH	○	○
SANITARY SEWER LATERAL	—	—	STUMP	○	○
WATER SERVICE	WS	WS	SURVEY MARKER	□	—
SANITARY SEWER MANHOLE	SMH	SMH	PROPERTY LINE	—	—
STORM DRAIN MANHOLE	DMH	DMH	EASEMENT LINE	—	—
ELECTRICAL MANHOLE	EMH	EMH	SPOT ELEVATIONS	× 100.2	× 101.5
TELEPHONE MANHOLE	TMH	TMH	CONTOUR LINES	— 56 —	— 56 —
CATCH BASIN	—	—	DEPRESSION CONTOUR LINES	—	—
HYDRANT	○	○	HOUSE NUMBER	#35	—
WATER GATE	○	○	FLOOR ELEVATION	FL=56.7	—
SPRINKLER HEAD	△	—	SILL ELEVATION	S=56.7	—
UTILITY POLE	□	□	WETLAND	—	—
GUY POLE	□	□	WETLAND FLAGS	WF#	—
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	TP 1	TP-1
BERM	—	—	BORING	B-1	—
SIDEWALK	CONC. WALK	CONC. WALK	DRAINAGE DITCH / SWALE	—	—
BOULDER	○	—	MAILBOX	—	—
STONE WALL	○	—	RETAINING WALL	RET WALL	RET WALL
RETAINING WALL	—	—	RETAINING WALL	RET WALL	RET 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
CENTERLINE	—	NF	NOT FOUND
CMP	CORRUGATED METAL PIPE	NO OR #	NUMBER
CONC	CONCRETE	PE	POLYETHYLENE
CP	CONTROL POINT	PVC	PROPERTY LINE
CU FT	CUBIC FEET	PR	POLYVINYL CHLORIDE
CY	CUBIC YARD	PVMT	PROPOSED
DI	DROP INLET, DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	ROW	RIGHT-OF-WAY
DMH	DRAIN MANHOLE	S	SEWER, SOUTH
E	ELECTRIC, EAST	SF	SQUARE FEET
EA	EACH	SPEC	SPECIFICATIONS
EL	ELEVATION	SQ FT	SQUARE FEET
EOP	EDGE OF PAVEMENT	SS	SEWER SERVICE
EW	EACH WAY	STA	STATION
EX	EXISTING	SW	SIDEWALK
FT	FEET, FOOT	T	TELEPHONE
G	NATURAL GAS	TBM	TEMPORARY BENCH MARK
GALV	GALVANIZED	TC	TOP OF CURB
GC	GRANITE CURB	TY	TYPICAL
H	HIGH	UNO	UNLESS NOTED OTHERWISE
HC	HOUSE CONNECTION	UP	UTILITY POLE
HORZ	HORIZONTAL	VC	VITRIFIED CLAY
HP	HIGH PRESSURE	VERT	VERTICAL
HYD	FIRE HYDRANT	W	WATER, WEST, WIDE
INV	INVERT		
ID	INSIDE DIAMETER		
IP	IRON PIPE		

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
Seal:

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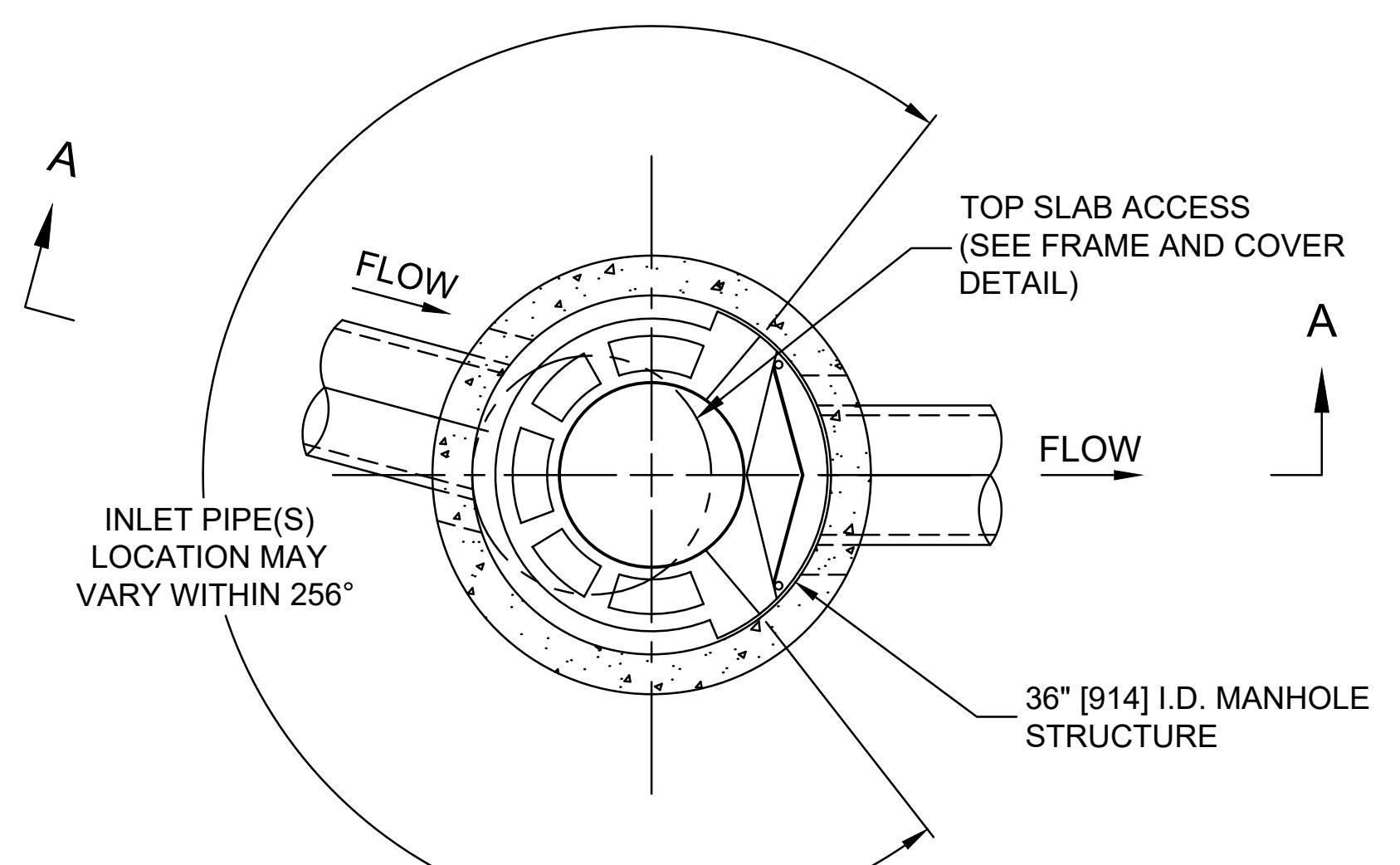
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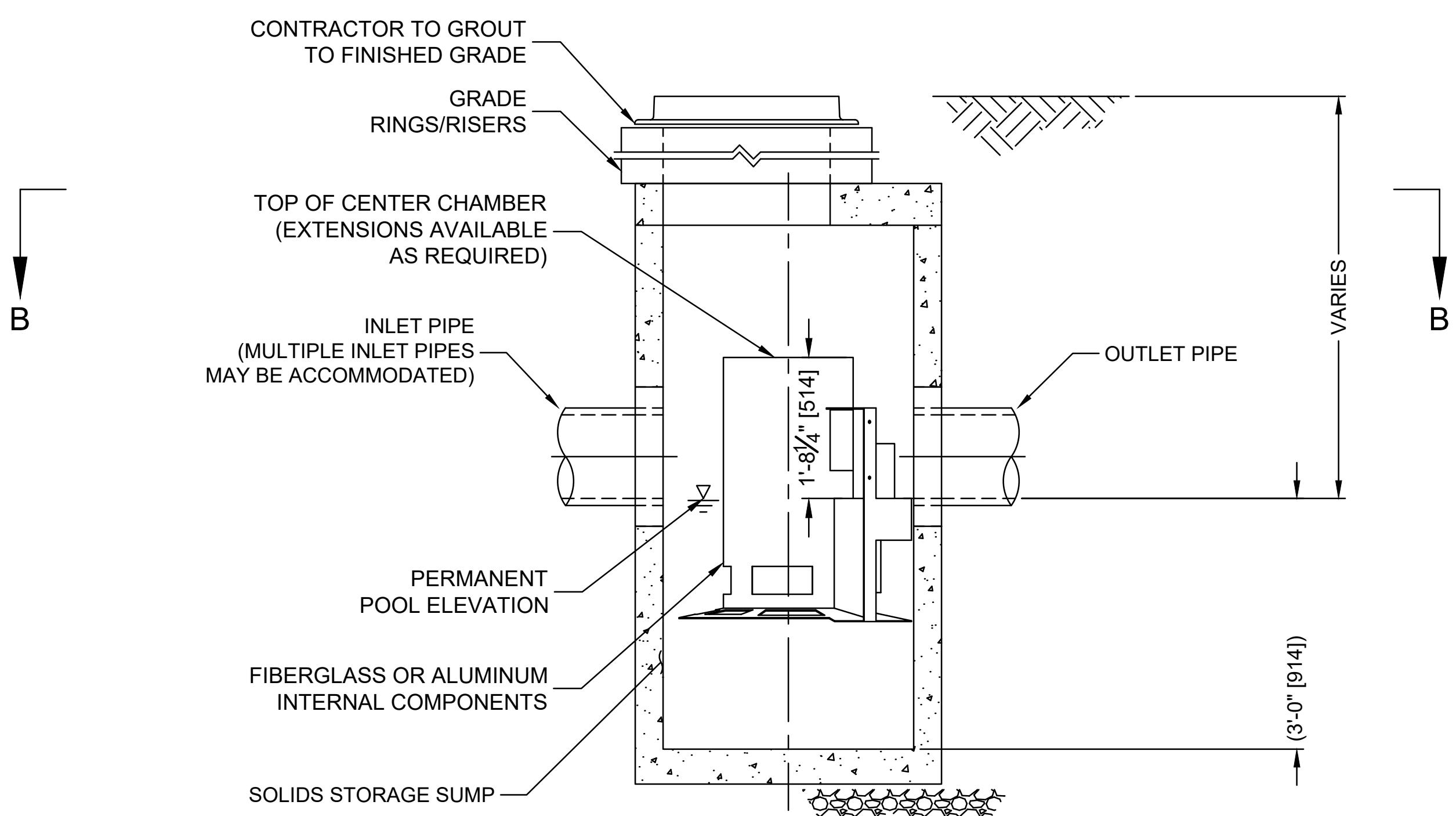
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Drawn By: JWG
Reviewed By: RC
Approved By: LAS
W&S Project No.: ENG20-1119
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Drawing Title:Sheet Number:
HYDRODYNAMIC
SEPARATOR
DETAILSSheet Number:
DET-03
Rev. 1.6 Date: 04/15/2019
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PLAN VIEW B-B

NOT TO SCALE



ELEVATION A-A

NOT TO SCALE

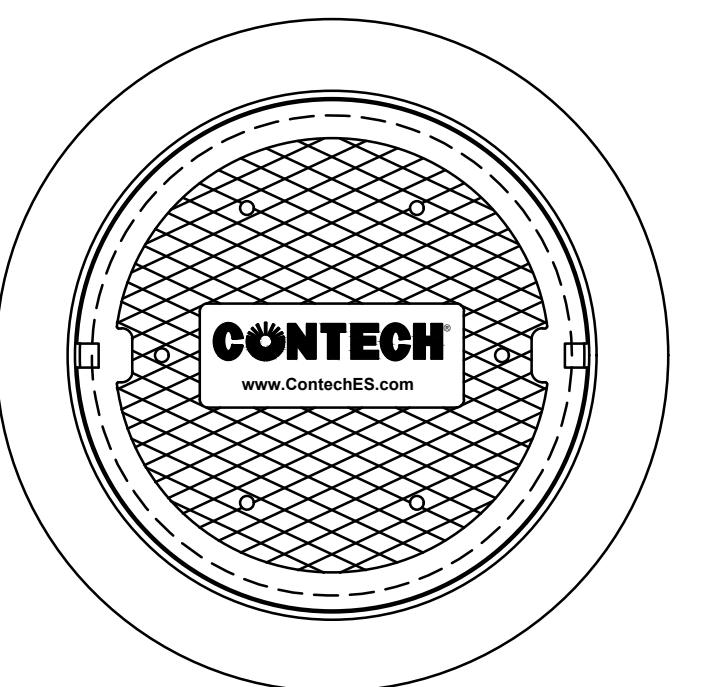
CASCADE
separator™

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)	CHOOSEN CONFIGURATION
GRATED INLET WITH INLET PIPE OR PIPES	
CURB INLET ONLY (NO INLET PIPE)	

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:	
INLET PIPE 1	239.88
INLET PIPE 2	239.88
OUTLET PIPE	228.97
MATERIAL	RCP
DIAMETER	15"
	15"
	18"

FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

GENERAL NOTES

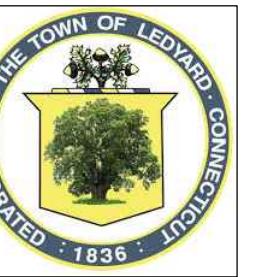
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. 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.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- D. 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.
- E. 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

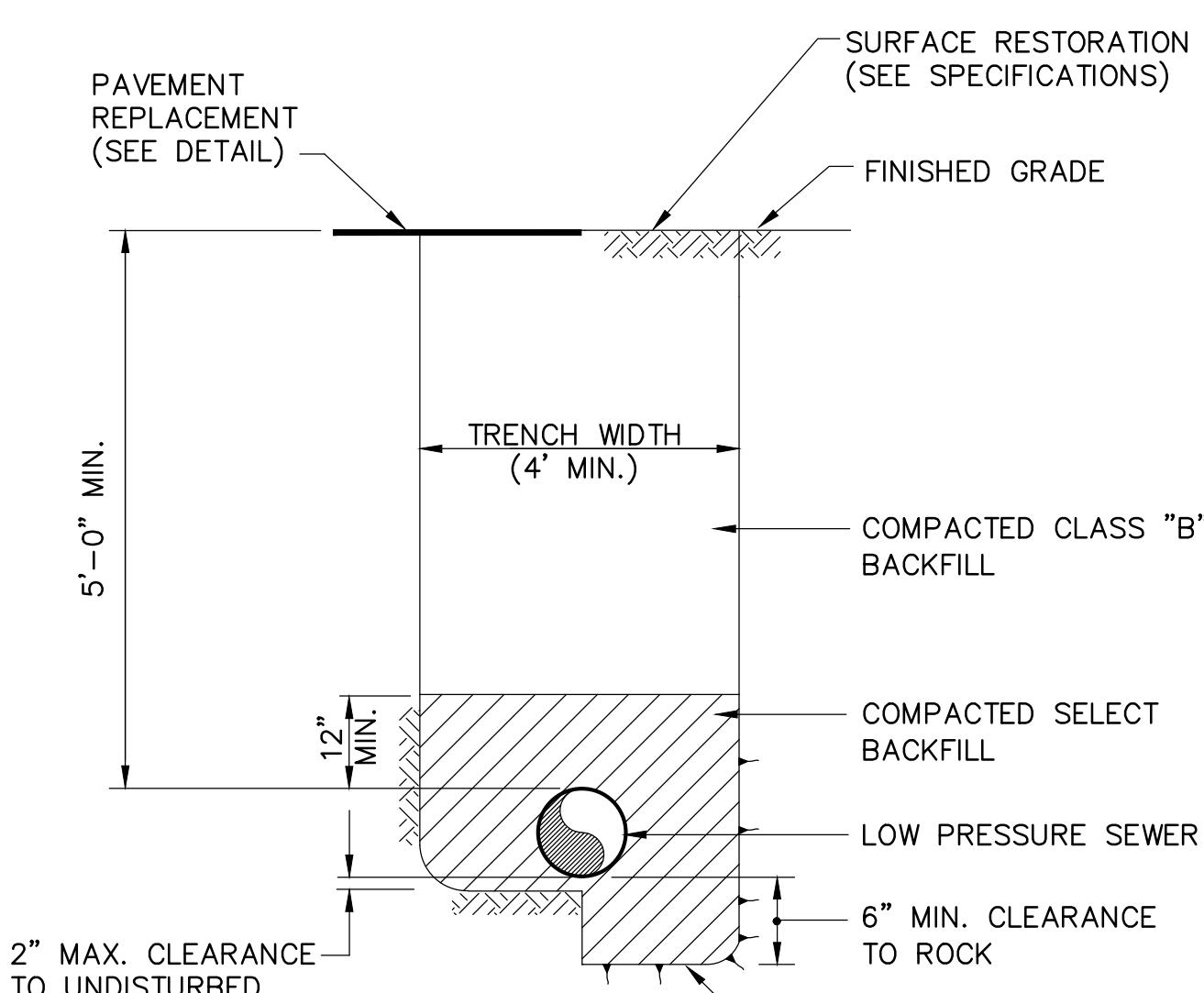
CS-3
CASCADE SEPARATOR
STANDARD DETAIL



No.	Date	Description

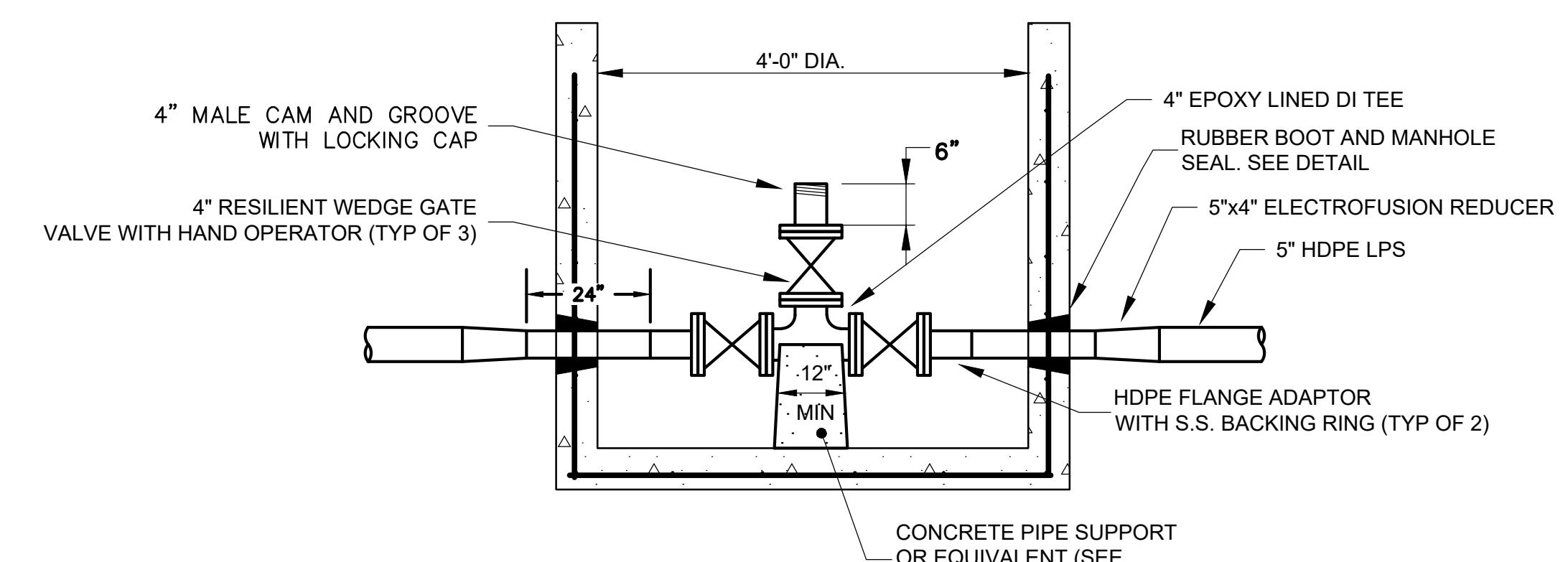
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Scale:	AS NOTED
Date:	JUNE 2022
Drawn By:	JWG
Reviewed By:	RC
Approved By:	LAS
W&S Project No.:	ENG20-1119
W&S File No.:	



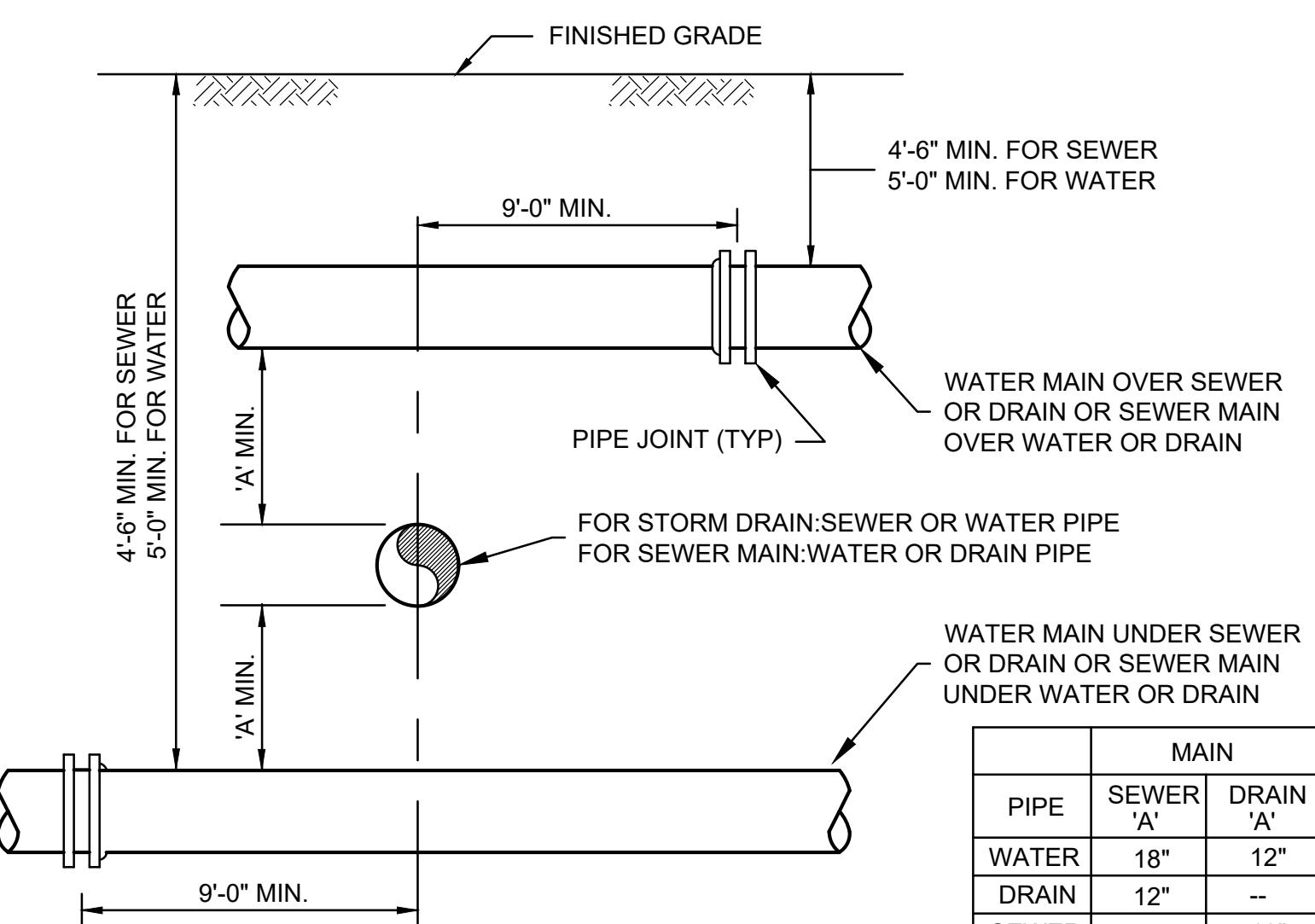
LOW PRESSURE SEWER TRENCH DETAIL

N.T.S.



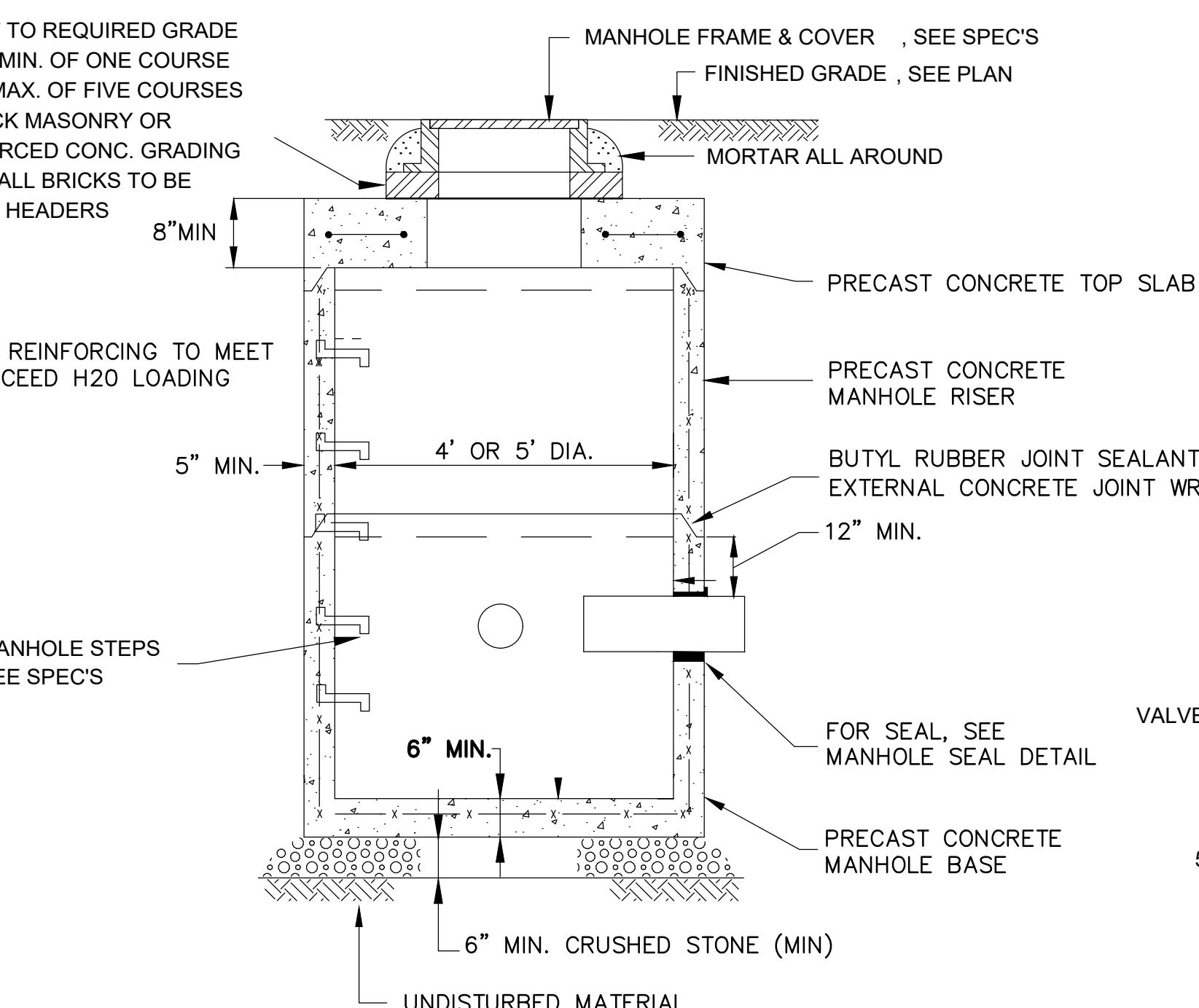
LPS CLEANOUT MANHOLE DETAIL

N.T.S.



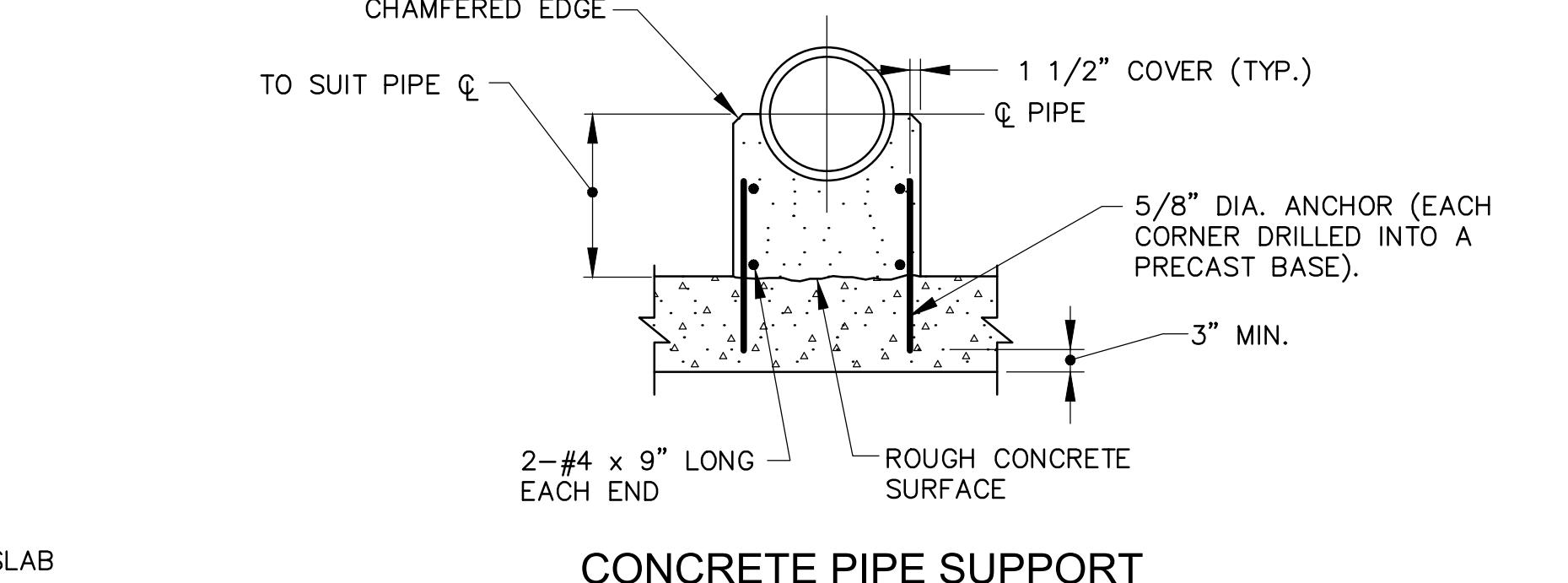
WATER, SEWER OR DRAIN CROSSING DETAIL

N.T.S.



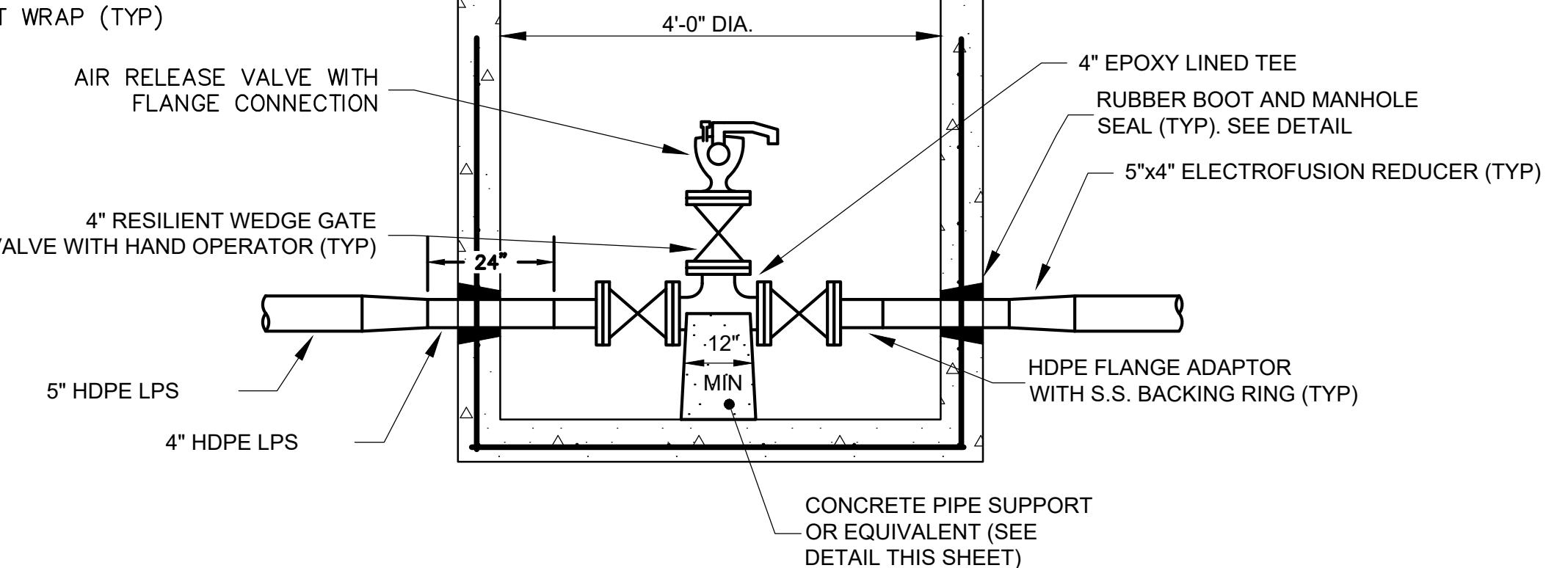
PRECAST CONCRETE MANHOLE DETAIL

N.T.S.



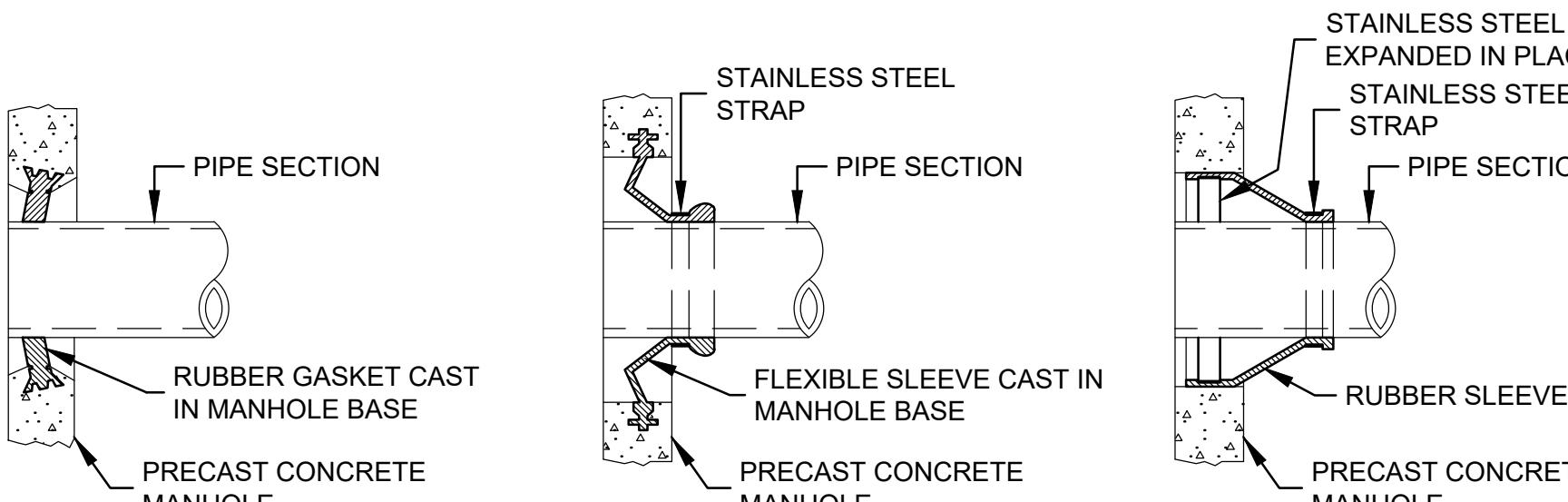
CONCRETE PIPE SUPPORT

N.T.S.



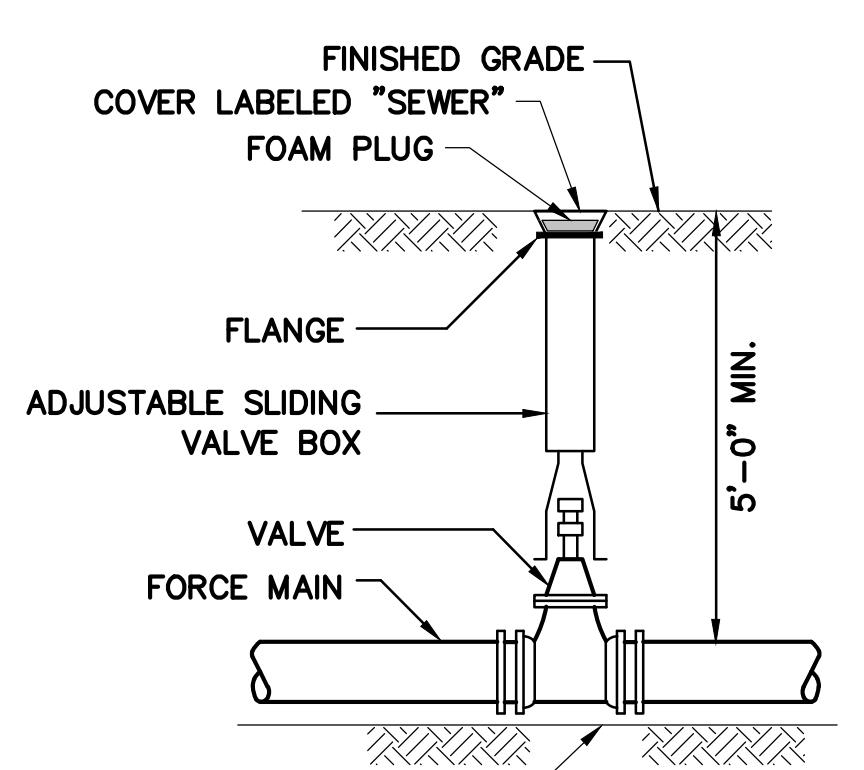
LPS AIR RELEASE MANHOLE DETAIL

N.T.S.



MANHOLE SEAL DETAILS

N.T.S.



VALVE AND BOX DETAIL

N.T.S.

LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

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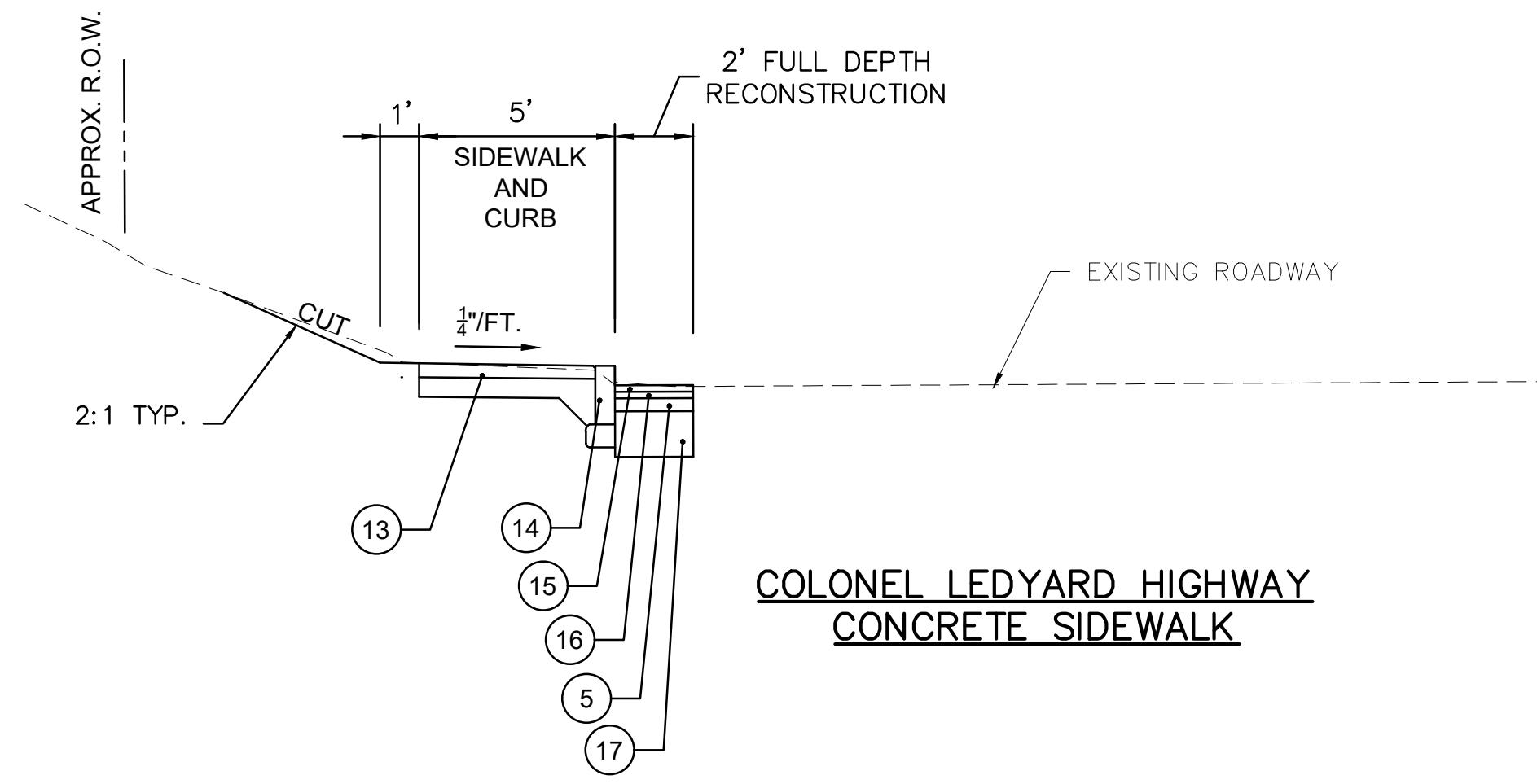
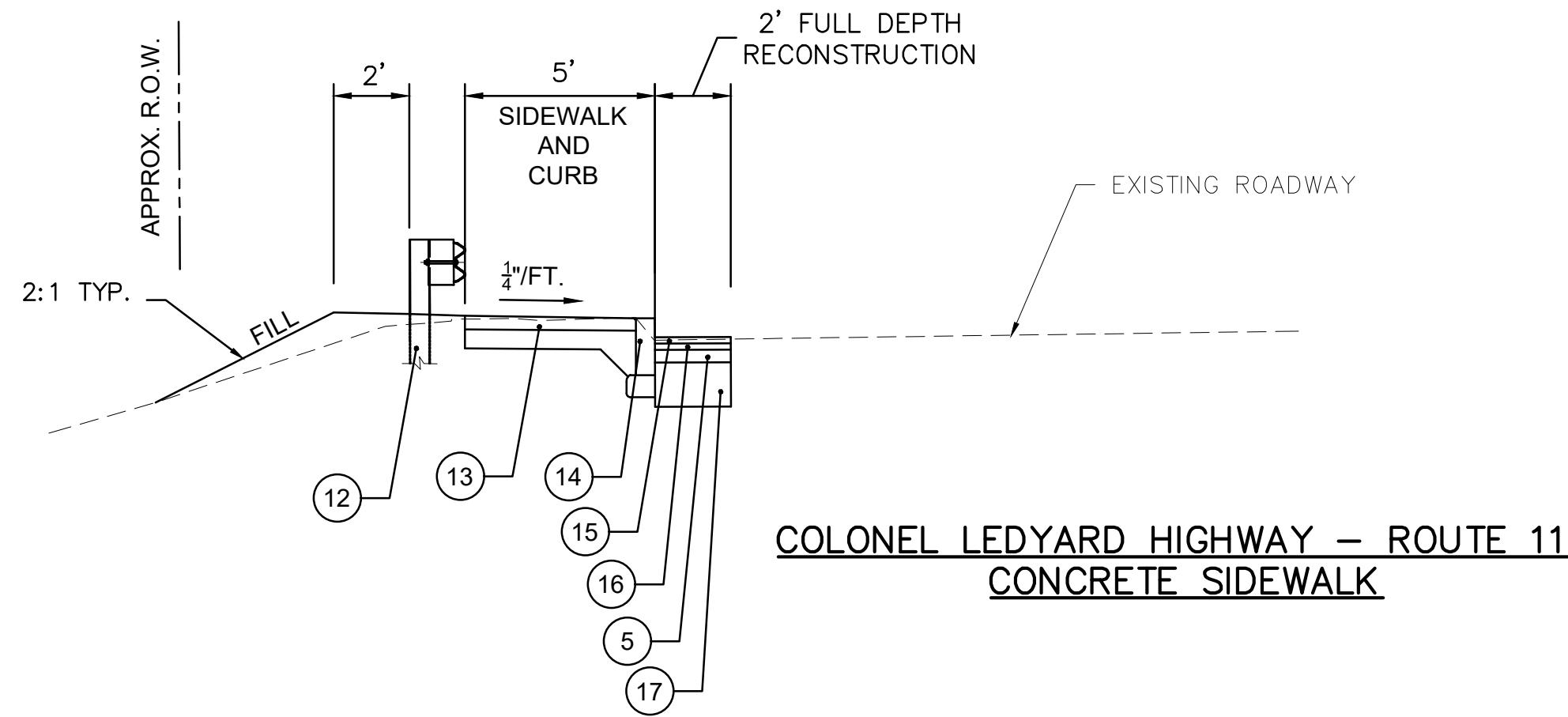
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Drawn By: JWG
Reviewed By: RC
Approved By: LAS
W&S Project No.: ENG20-1119
W&S File No.: Drawing Title:
MULTI-USE PATHWAY
AND SIDEWALK
TYPICAL SECTIONS

Sheet Number:

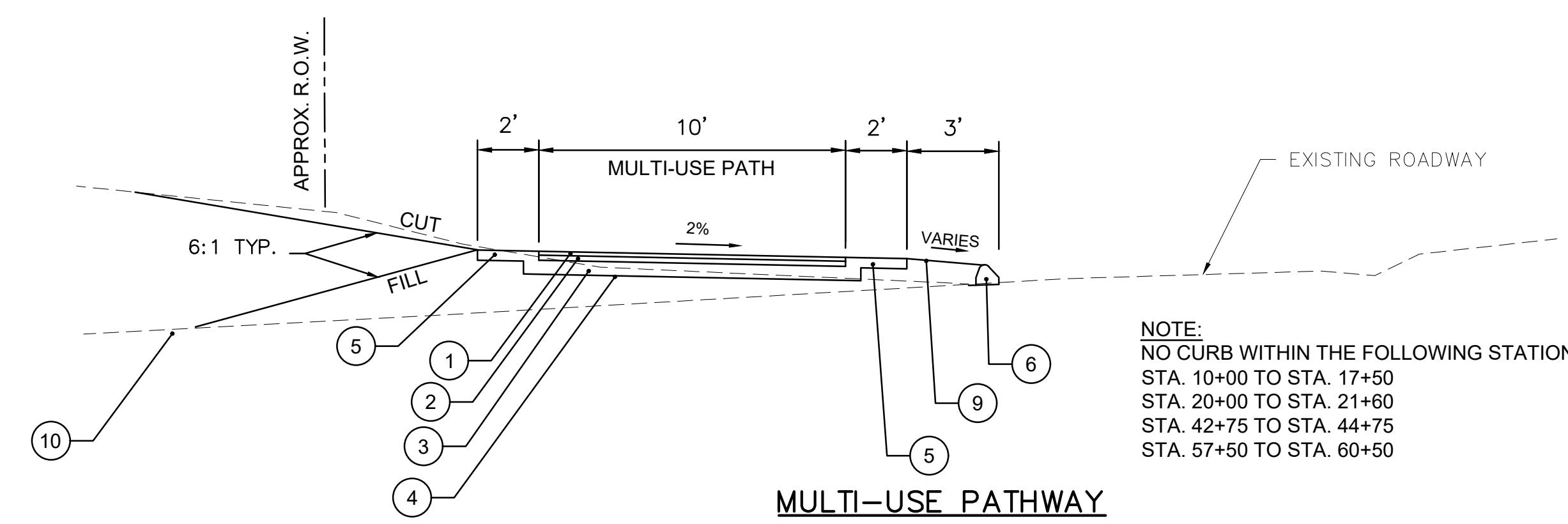
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Rev. 1.6 Date 04/05/2019

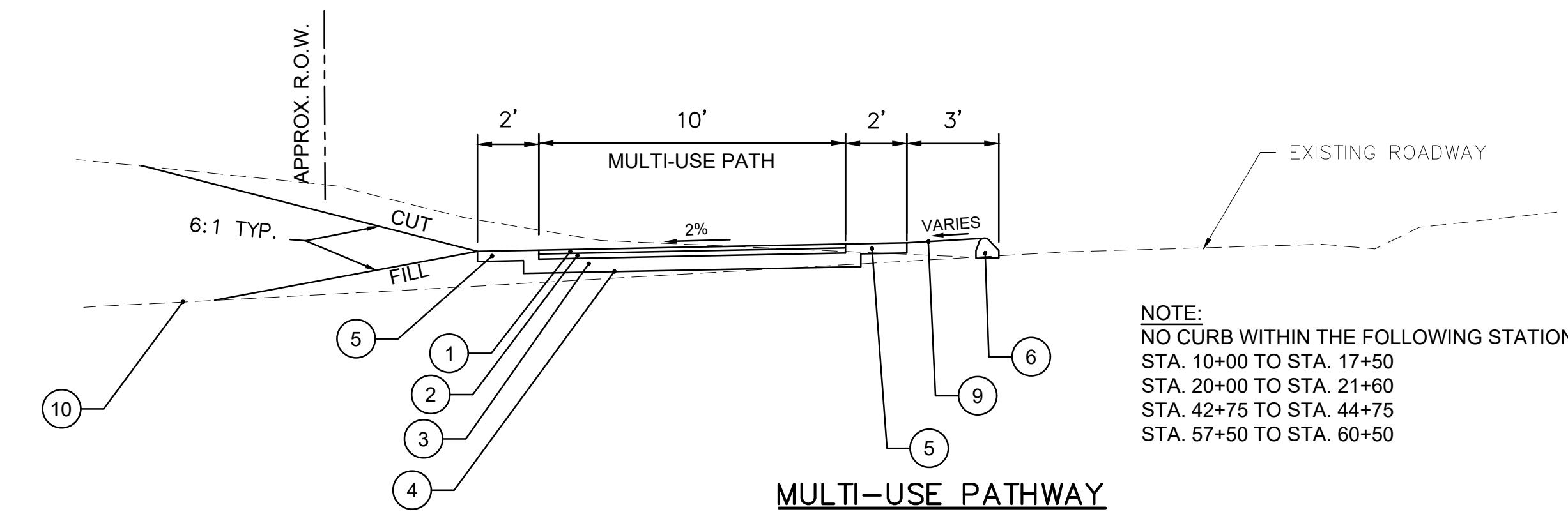
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START - STA. 11+00
STA. 12+75 - STA. 13+25
STA. 17+70 - STA. 20+00
STA. 22+00 - STA. 24+50
STA. 31+00 - STA. 37+50
STA. 40+50 - STA. 42+00
STA. 45+50 - STA. 47+50
STA. 61+00 - END



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

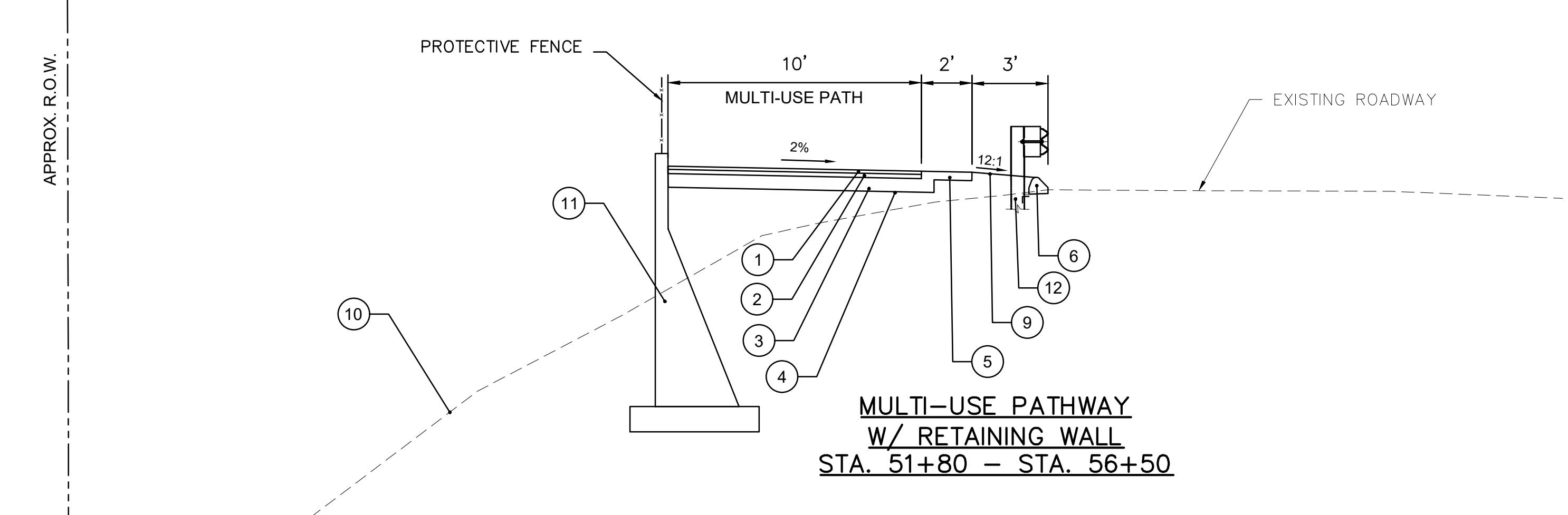
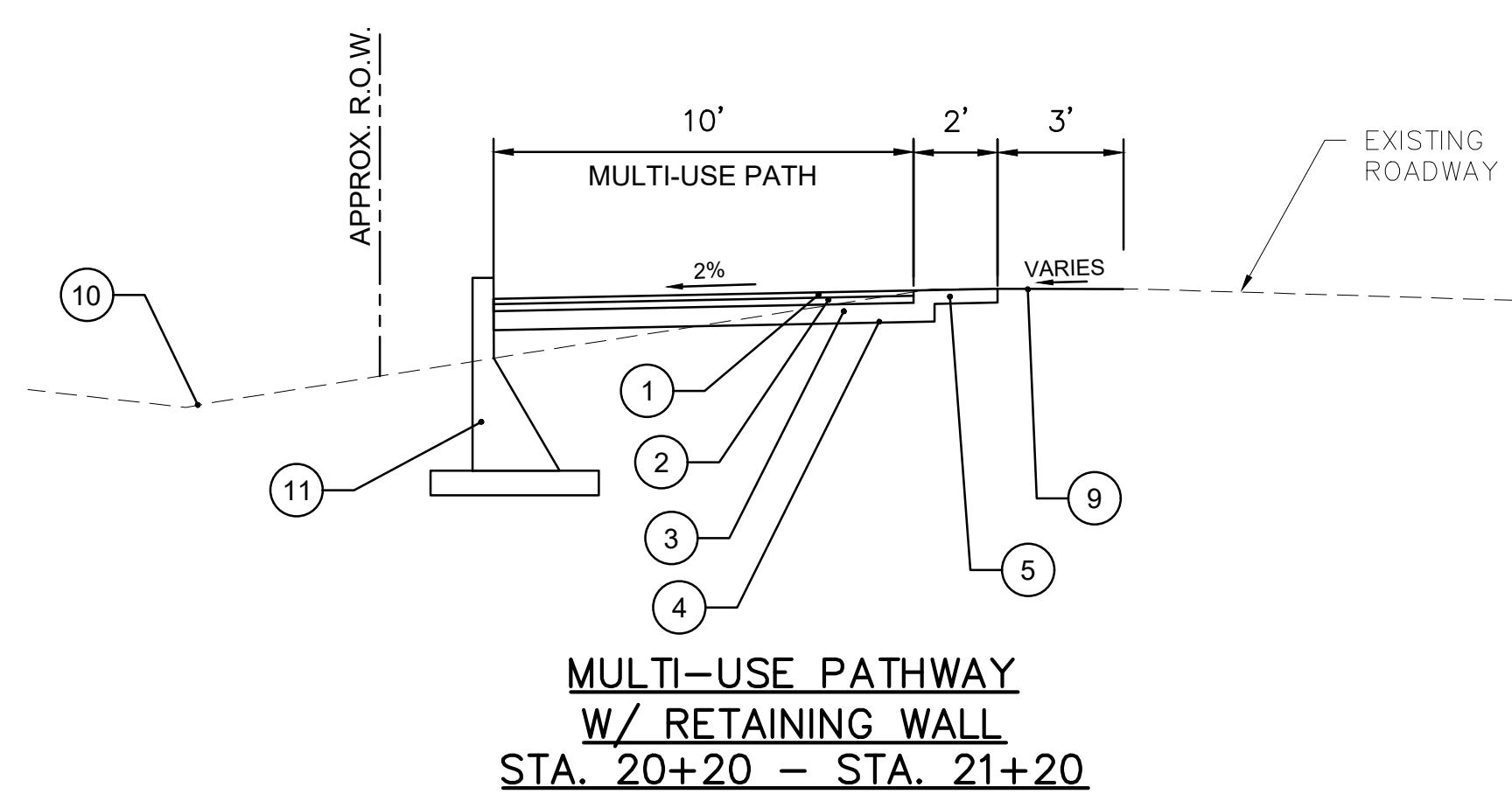


LEGEND

- (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



TYPICAL SECTIONS

SCALE: 1"=4'

0 4' 8' 12'



EDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

1 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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JWG

By: RC

By: LAS

ect No.: ENG20-1119

le:

ROADWAY TYPICAL SECTIONS

her:

TYP-02

113

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50' AND VARIES

APPROX. R.O.W.

CUT

FILL

1/2"/FT

3/8"/FT

3/8"/FT

3/8"/FT

2%

APPROX. R.O.W.

5'

13'

LANE

R

13'

LANE

2'

VARIABLES

MULTI-USE PATHWAY

4" MILL AND OVERLAY

GALLUP HILL ROAD

STA. 300+16.5 TO STA. 302+10

2

3

4

5

6

7

APPROX. R.O.W.

FILL

6

TYPICAL SECTIONS

SCALE: 1"=4'

A horizontal bar consisting of a repeating pattern of black and white squares, similar to a barcode or a DNA sequence visualization.

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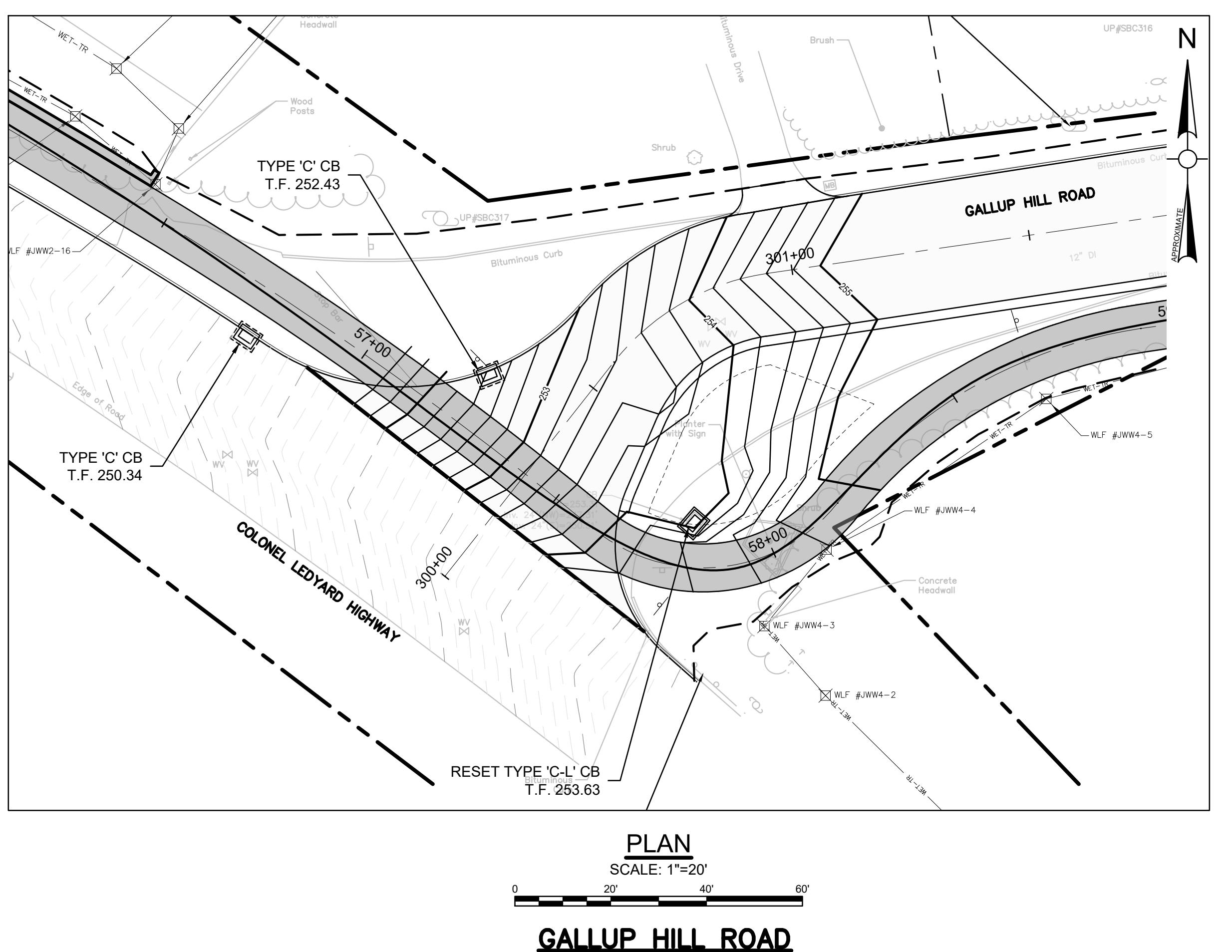
ect No.: ENG20-1119

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**INTERSECTION
TRADING PLANS
HOLDRIDGE CI
ALL UP HILL RD**

her:

IGP-1

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TOWN OF LEDYARD, CT

www.english-test.net

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ed By: RC

ed By: LAS

Title:

LTI-USE PATHWA SIDEWALK PLAN 211+50 TO 214+ 110+00 TO 113+

HWY-2

10 of 10 pages

PLAN
SCALE: 1"=20'

0 20' 40' 60'

LEDYARD HIGH SCHOOL
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SIDEWALK EXTENSION741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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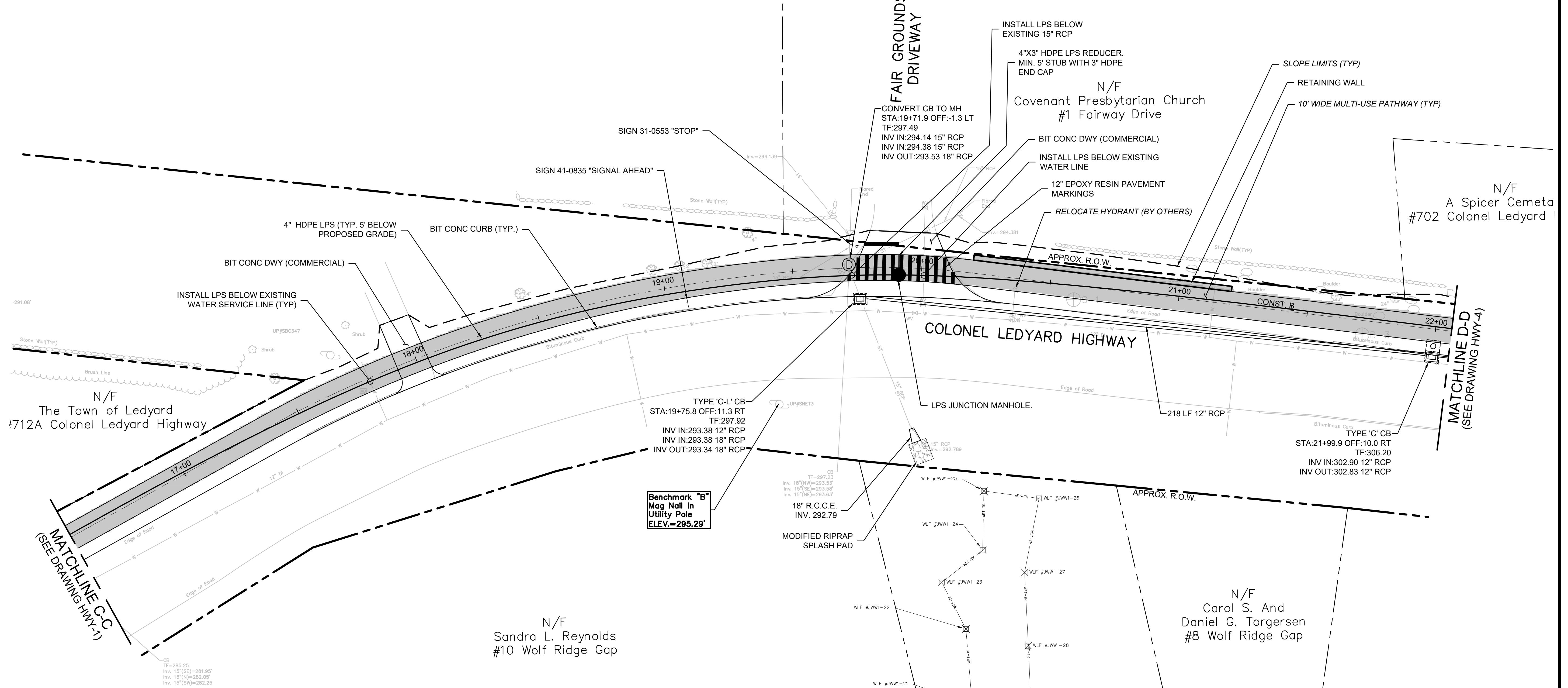
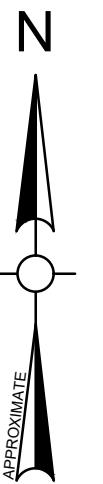
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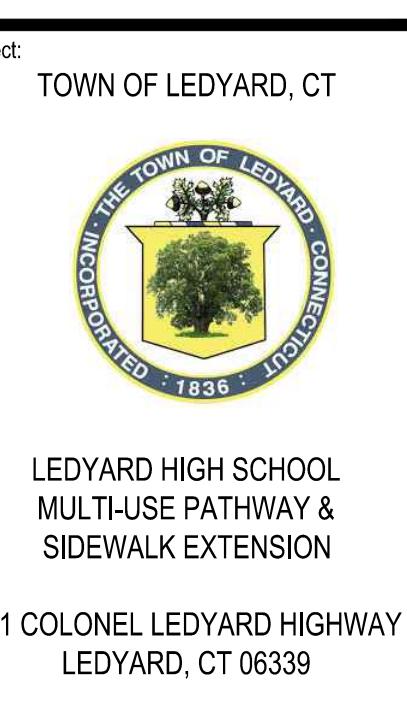
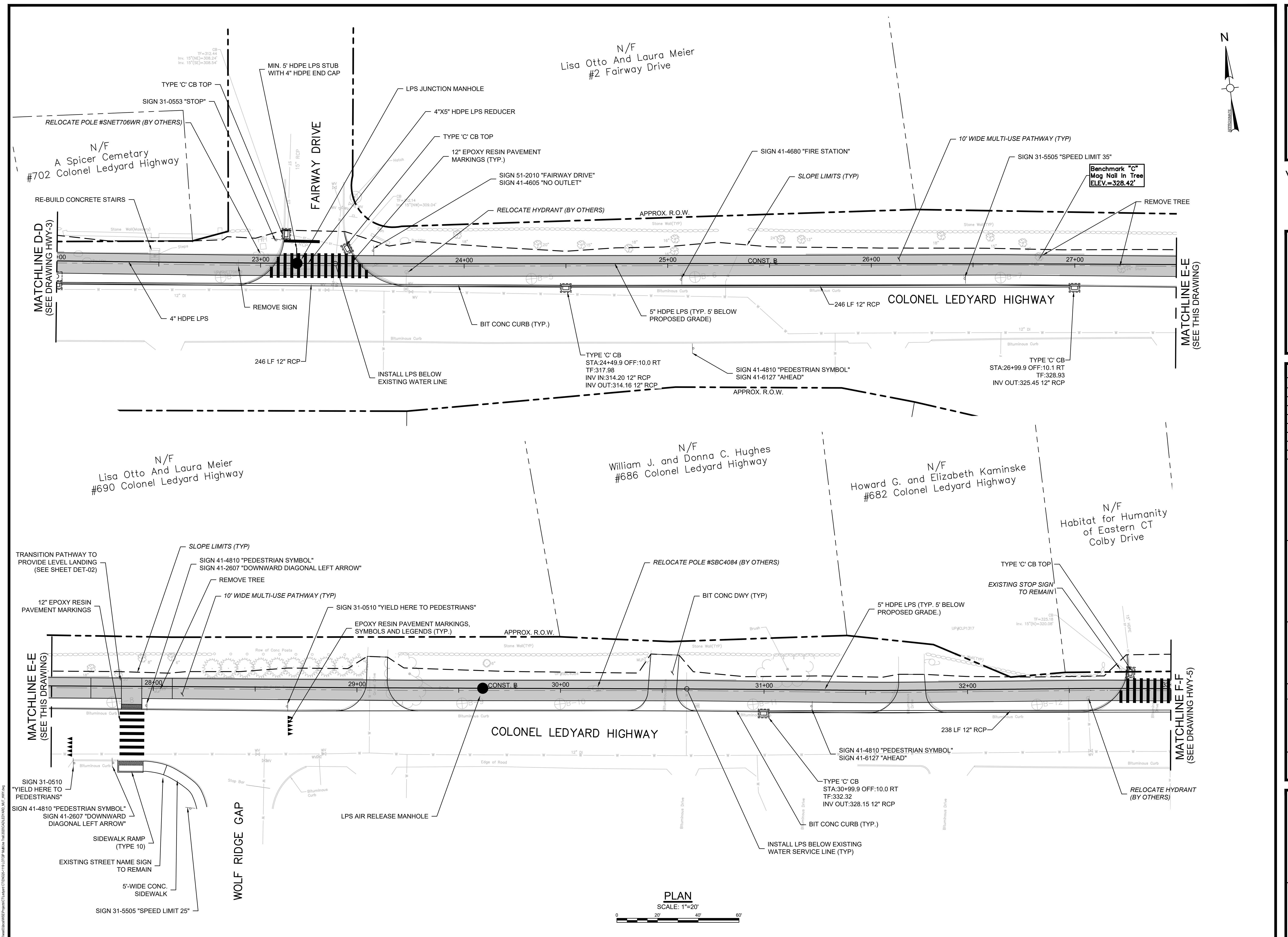
Drawing Title:

MULTI-USE PATHWAY
& SIDEWALK PLAN
STA. 16+50 TO 22+00

Sheet Number:

HWY-3

N/F
David C. and Keli D. Levine
#712 Colonel Ledyard HighwayPLAN
SCALE: 1'=20'
0 20' 40' 60'



ct:
TOWN OF LEDYARD, CT

TOWN OF LEDYARD

LEDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

1 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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own By: JWG

Reviewed By: LAS

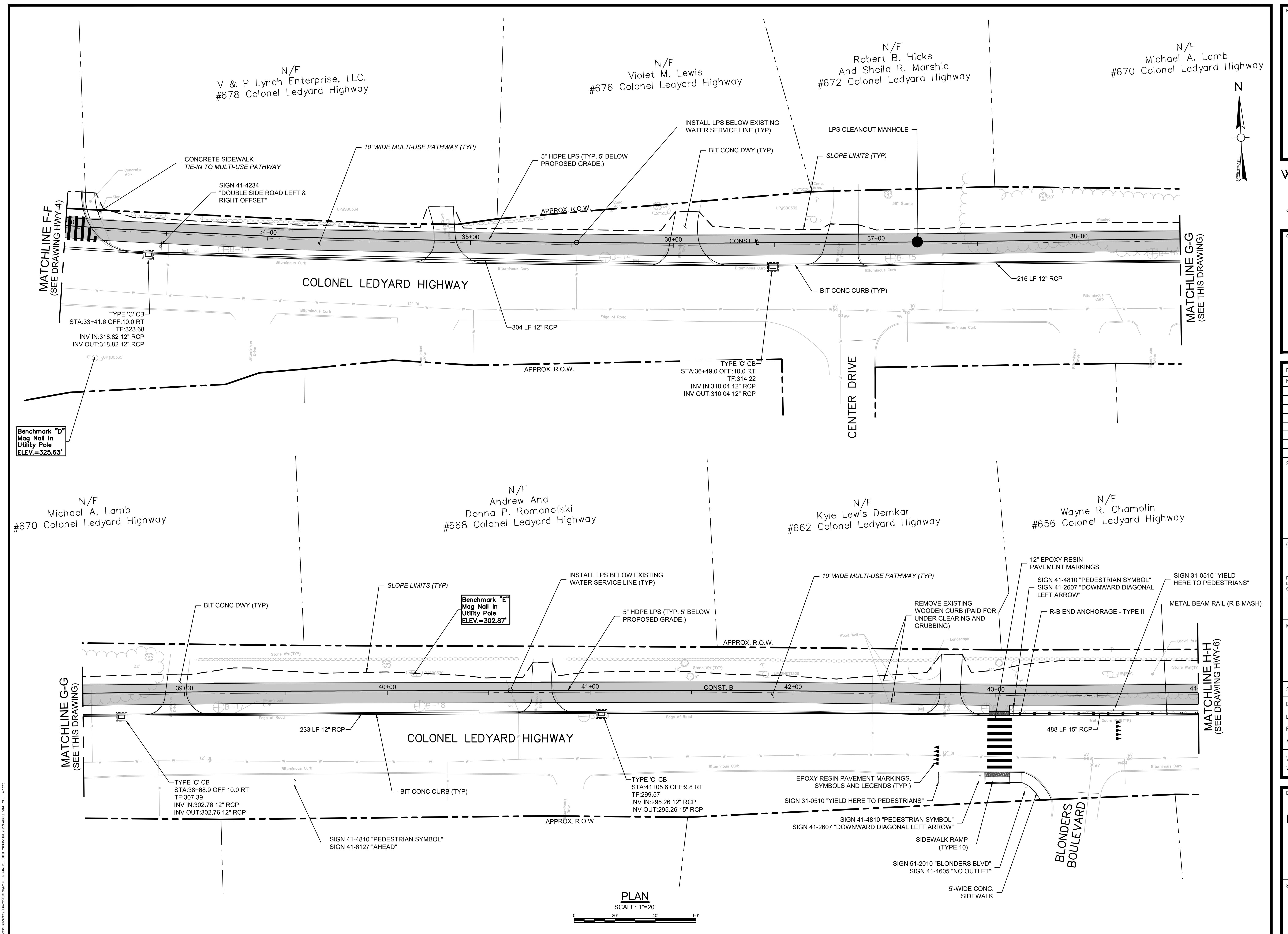
6 Project No.: ENG20-1119

oring Title:

MULTI-USE PATHWAY & SIDEWALK PLAN

Text Number:

HWY-4



TOWN OF LEDYARD, CT

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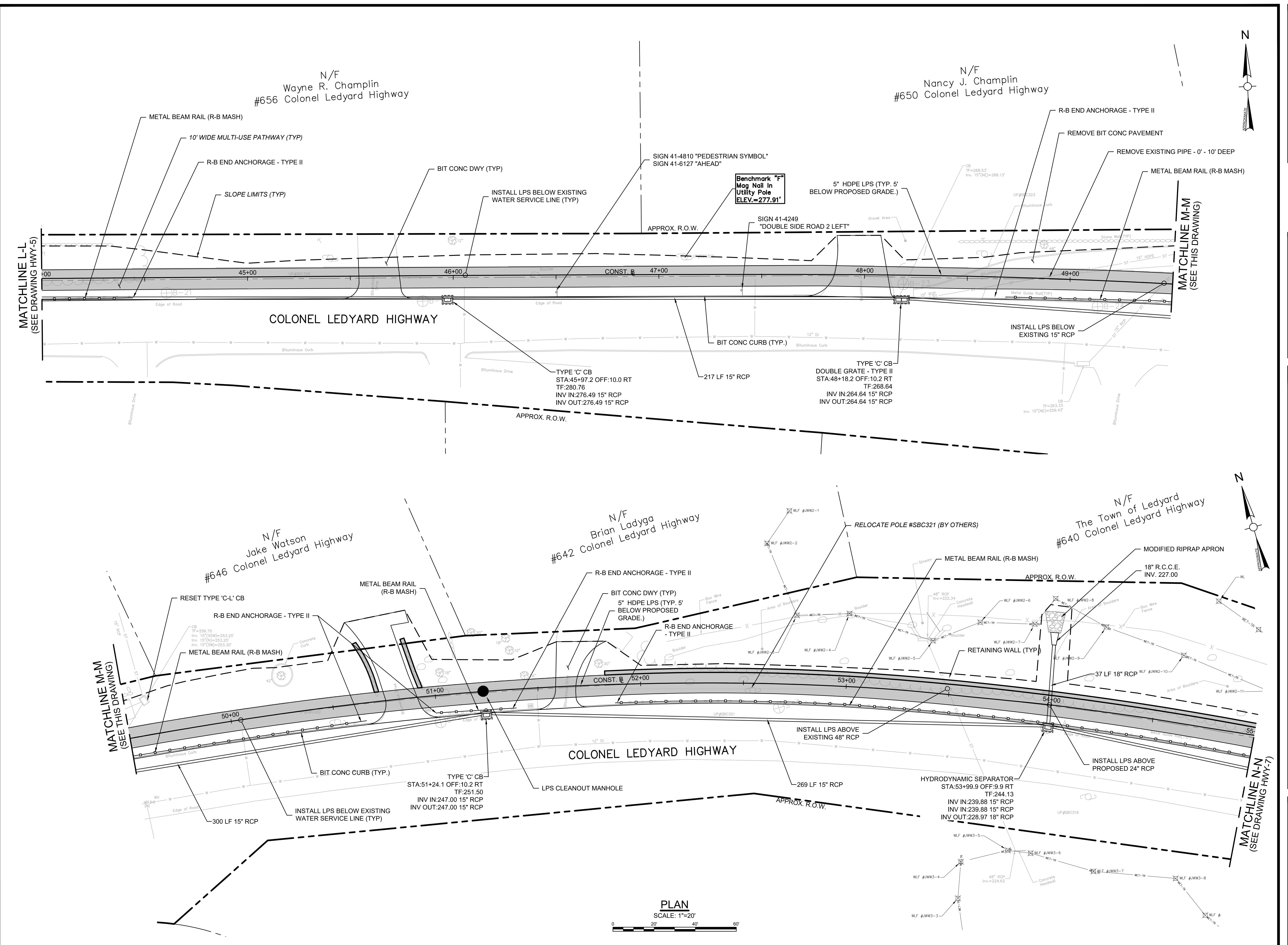
Project Name: ENGC22-1448

Title:

SHARED-USE PATHWAY SIDEWALK PLAN A, 33+00 TO 44+00

number:

HWY-5



ct:
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LEDYARD, CT 06339

The logo for Weston & Sampson Engineers, Inc. It features the word "Weston" on the left, "Sampson" on the right, and a large ampersand (&) in the center. The ampersand is enclosed in a circle. The "S" in "Sampson" has a small "SM" registered trademark symbol to its upper right.

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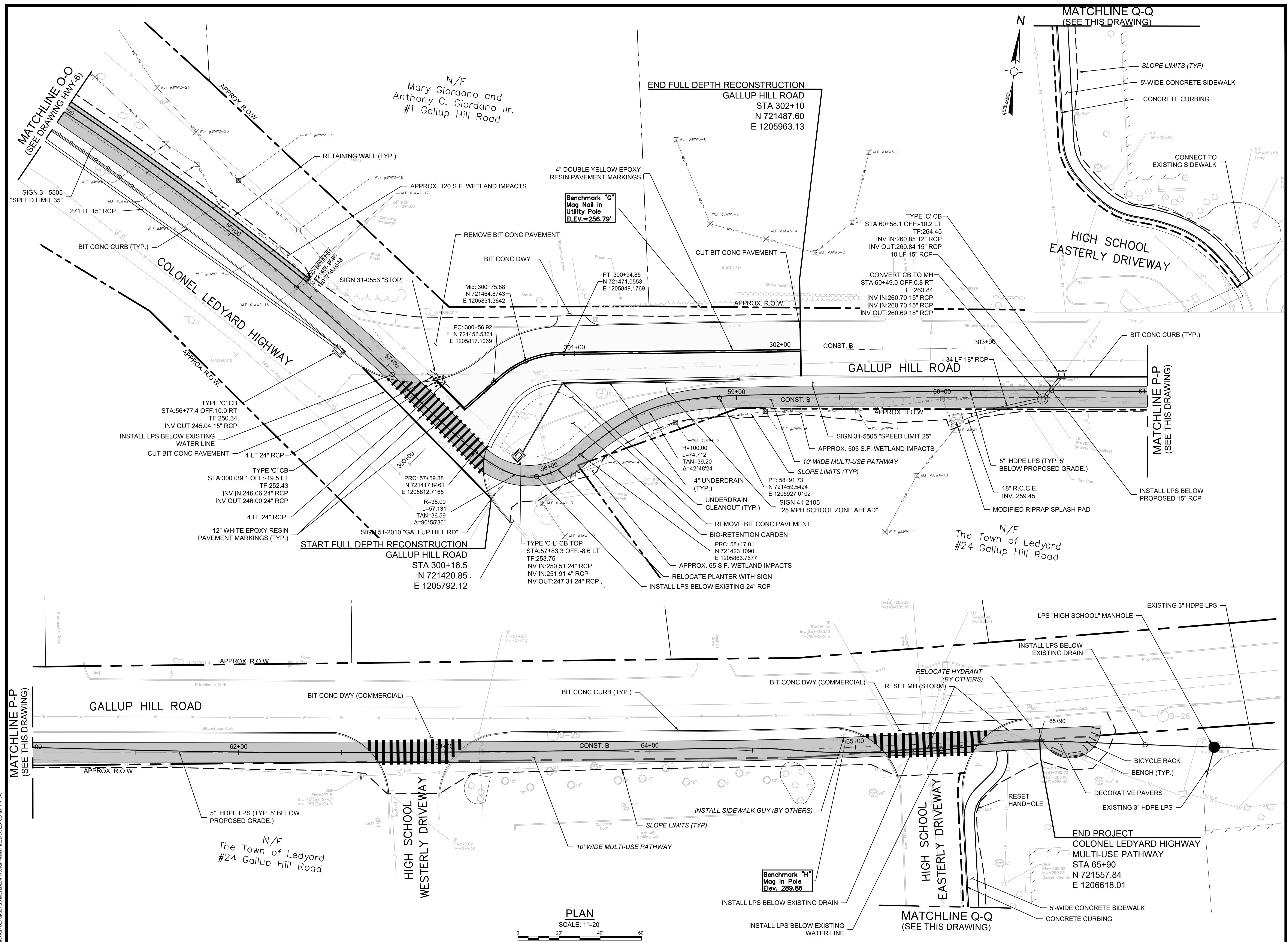
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ewed By:	RC
roved By:	LAS
6 Project No.:	ENG20-1119
C File No.:	

ing Title: **MULTI-USE PATHWAY & SIDEWALK PLAN**

HWY-6



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION

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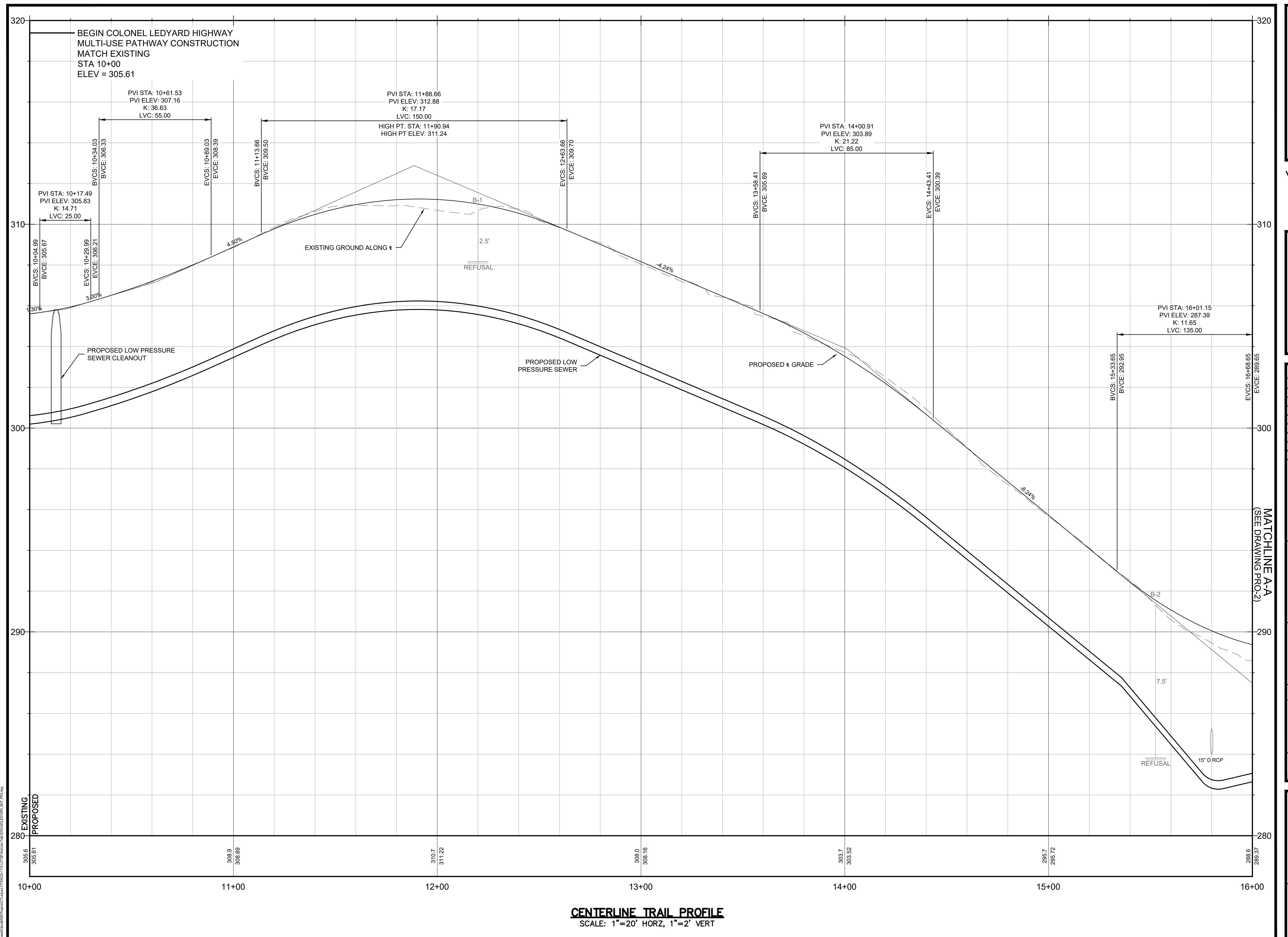
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MULTI-USE PATHWAY & SIDEWALK PLAN

STA. 55+00 TO 65+90

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HWY-7



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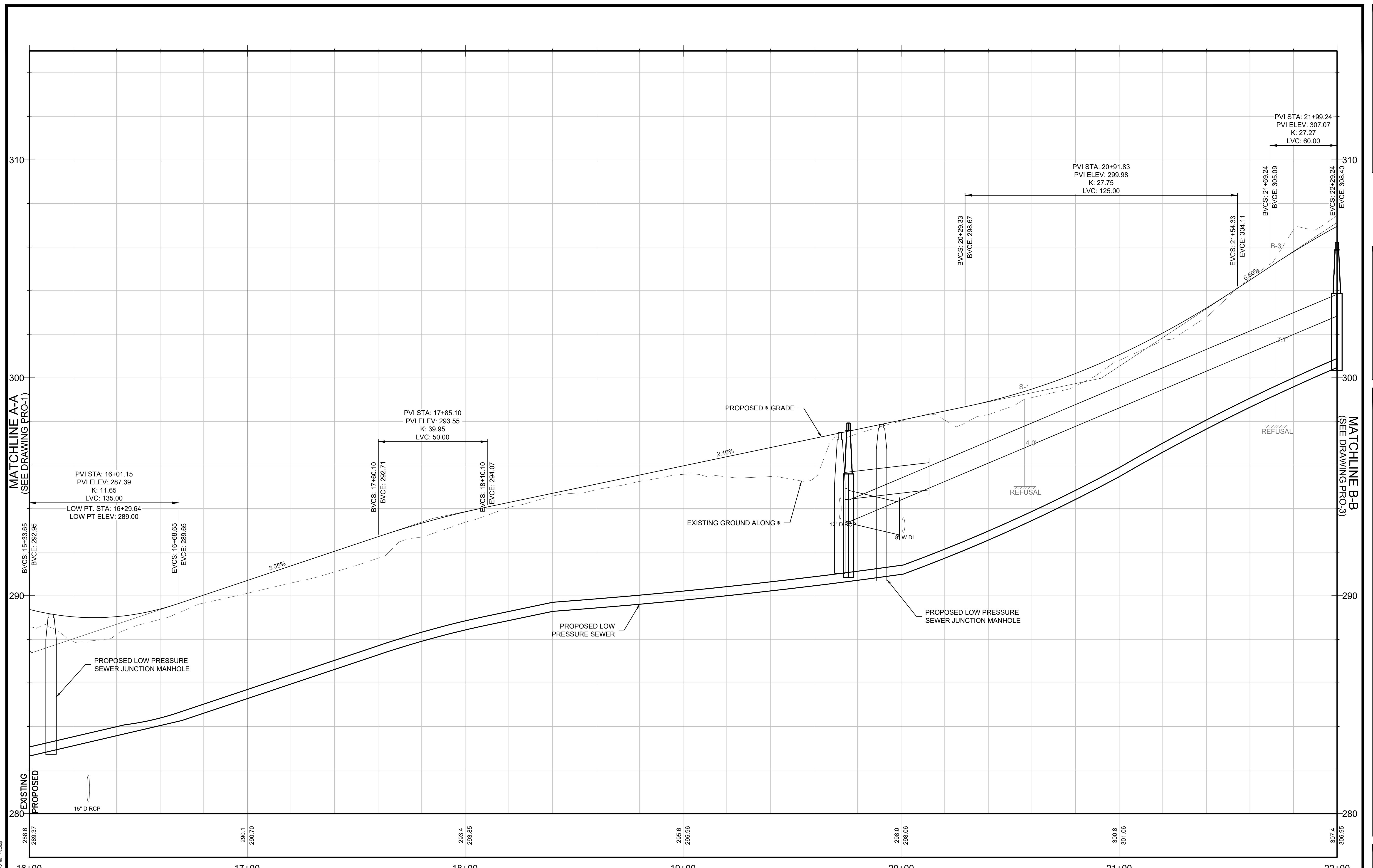
Page 1

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TI-USE PATHWAY PROFILE 10+00 TO 16+50

RO-01



wwwse03.local\WSE\Projects\CT\ledyard\CT\ENG20-1119\LOTCP MultiUse Trail 2020\CAD\LEDYARD_MUT_PRO.dwg

CENTERLINE TRAIL PROFILE

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

ct:
TOWN OF LEDYARD, CT



LEDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

1 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

The logo for Weston & Sampson Engineers, Inc. It features the word "Weston" in a bold, sans-serif font, followed by a large, stylized ampersand (&), and then the word "Sampson" in a bold, sans-serif font. The ampersand is enclosed within a circular border.

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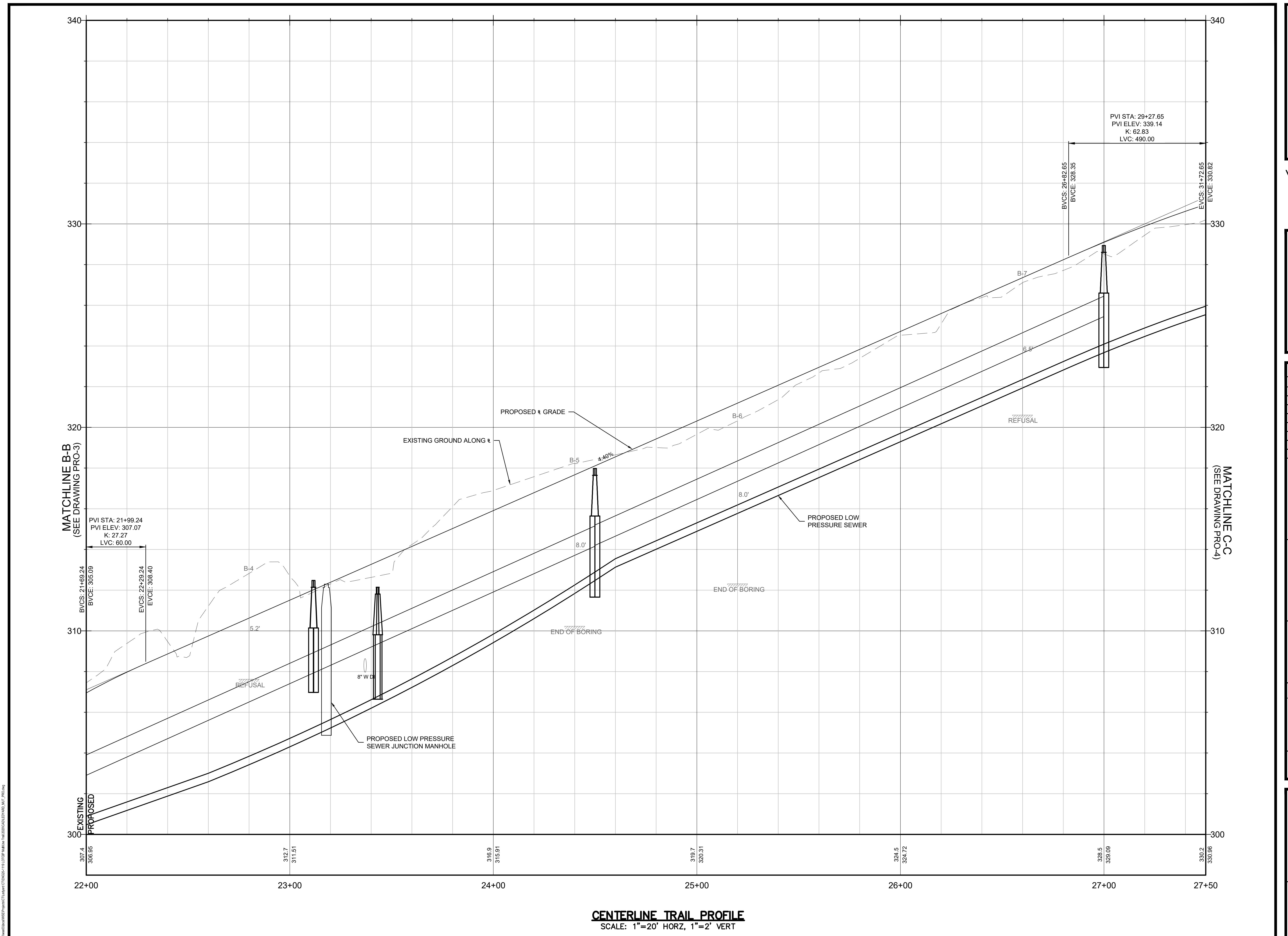
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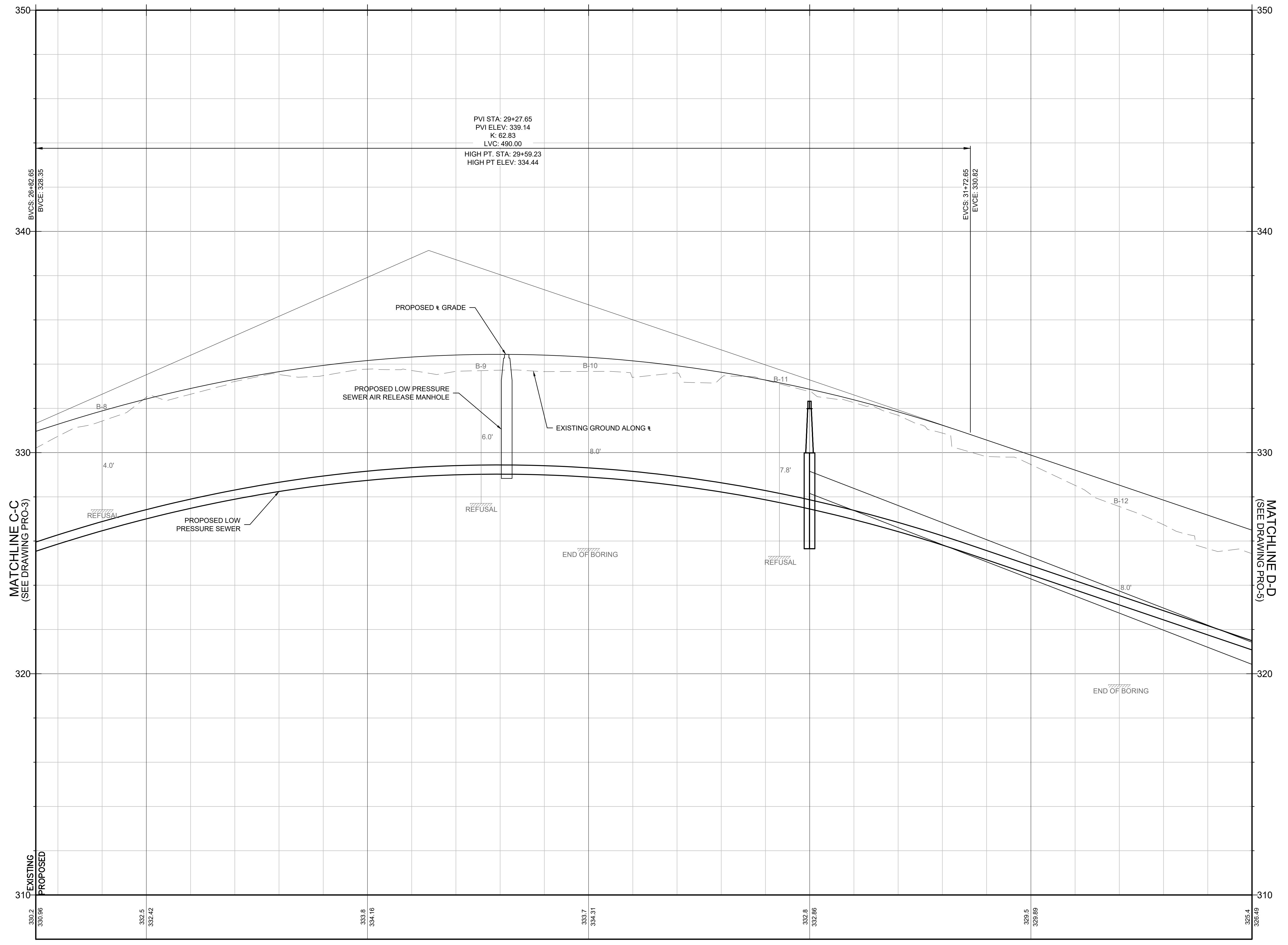
MULTI-USE PATHWAY PROFILE

TA 12-52 TO 22-6

Part Number:

PRO-02





CENTERLINE TRAIL PROFILE

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

SCALE: 1 -20 HERTZ, 1 -2 VERT



ARD HIGH SCHOOL TI-USE PATHWAY & WALK EXTENSION

COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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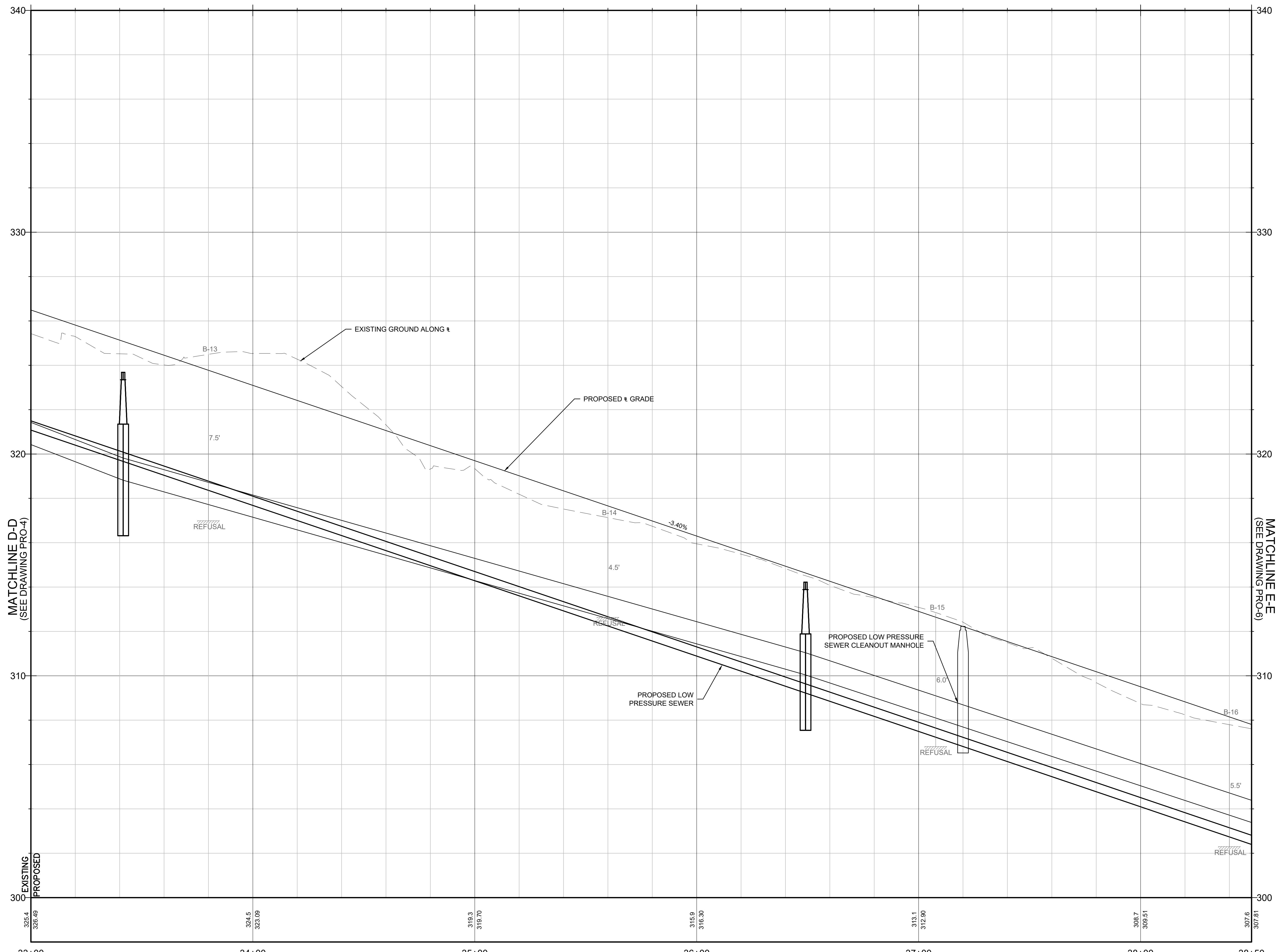
ed By: LAS

oject No.: ENG20-1119

e No.:

Title: **MULTI-USE PATHWAY PROFILE
A. 27+50 TO 33+00**

PRO-04



CENTERLINE TRAIL PROFILE

The logo is circular with a blue border. The border contains the text "THE TOWN OF LEDYARD, CONNECTICUT" at the top and "INCORPORATED 1836" at the bottom. Inside the border is a yellow shield. The shield features a large green tree in the center, with a small building or crest above it. The background of the shield is yellow.

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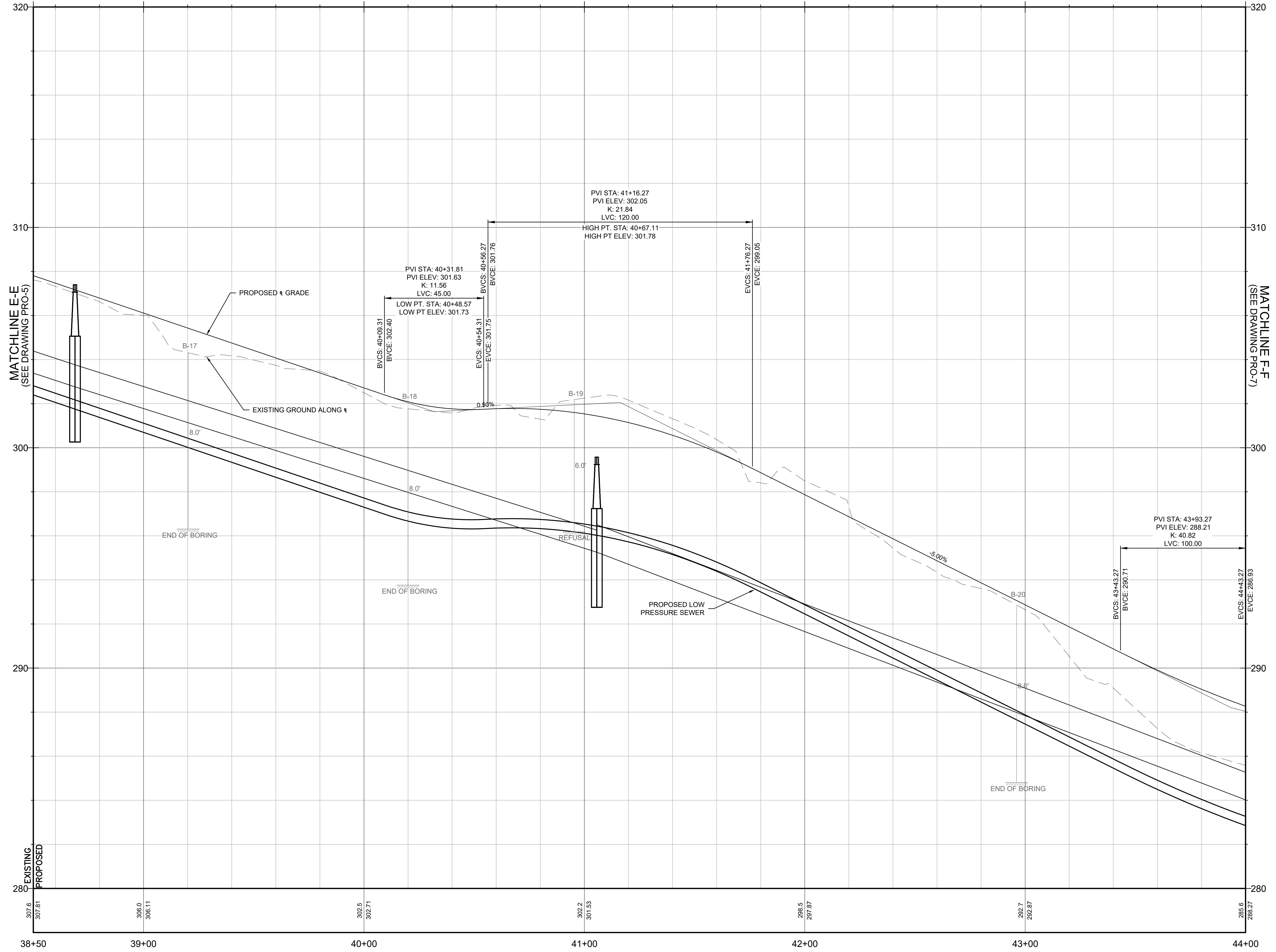
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Approved By:	LAS
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MULTI-USE PATHWAY PROFILE STA. 33+00 TO 38+50

Sheet Number:

PRO-05



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The seal of the Town of Ledyard, Connecticut. It features a circular border with the text "THE TOWN OF LEDYARD" at the top and "CONNECTICUT" at the bottom. The year "1836" is at the bottom. Inside the border is a yellow shield containing a green tree. Above the tree is a crest with a bunch of fruit. The words "INCORPORATED" are curved along the left side of the shield.

The logo for Weston & Sampson Engineers, Inc. It features the company name in a bold, black, sans-serif font. The word 'Weston' is on the left, 'Sampson' is on the right, and a large ampersand (&) is positioned between them. A thin circular line encircles the ampersand and extends slightly beyond its ends to form a partial circle around the ampersand and the start of 'Sampson'.

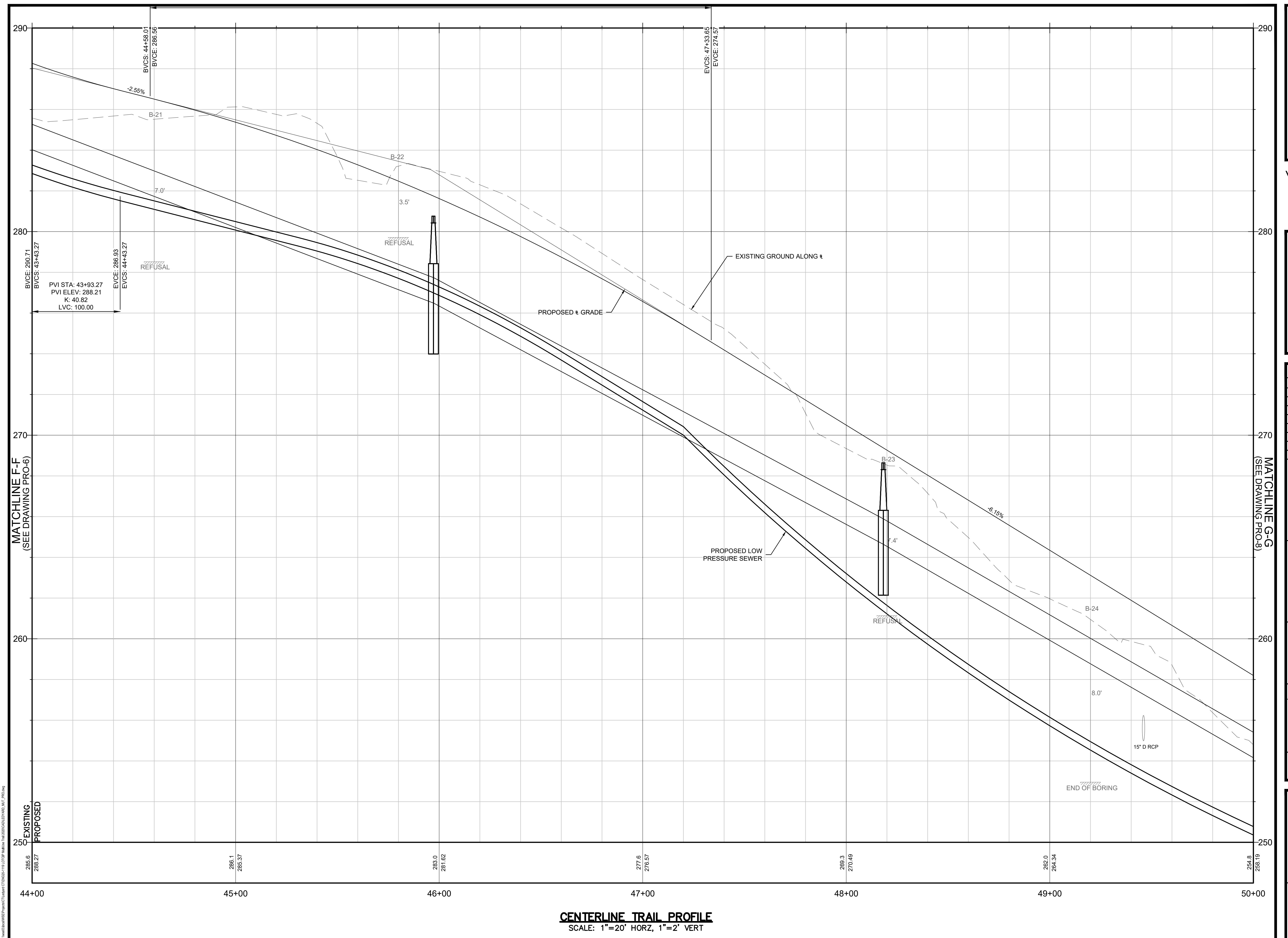
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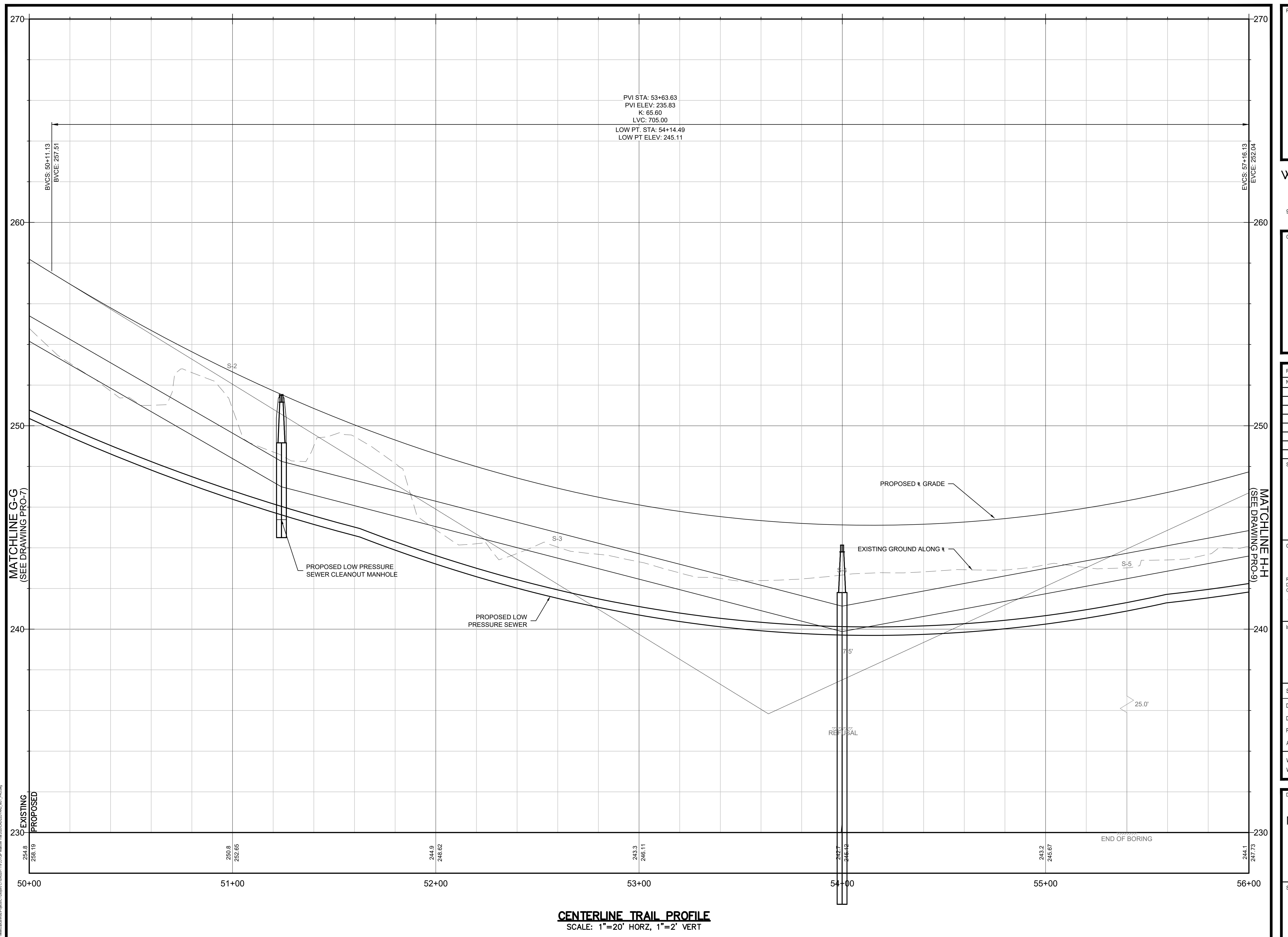
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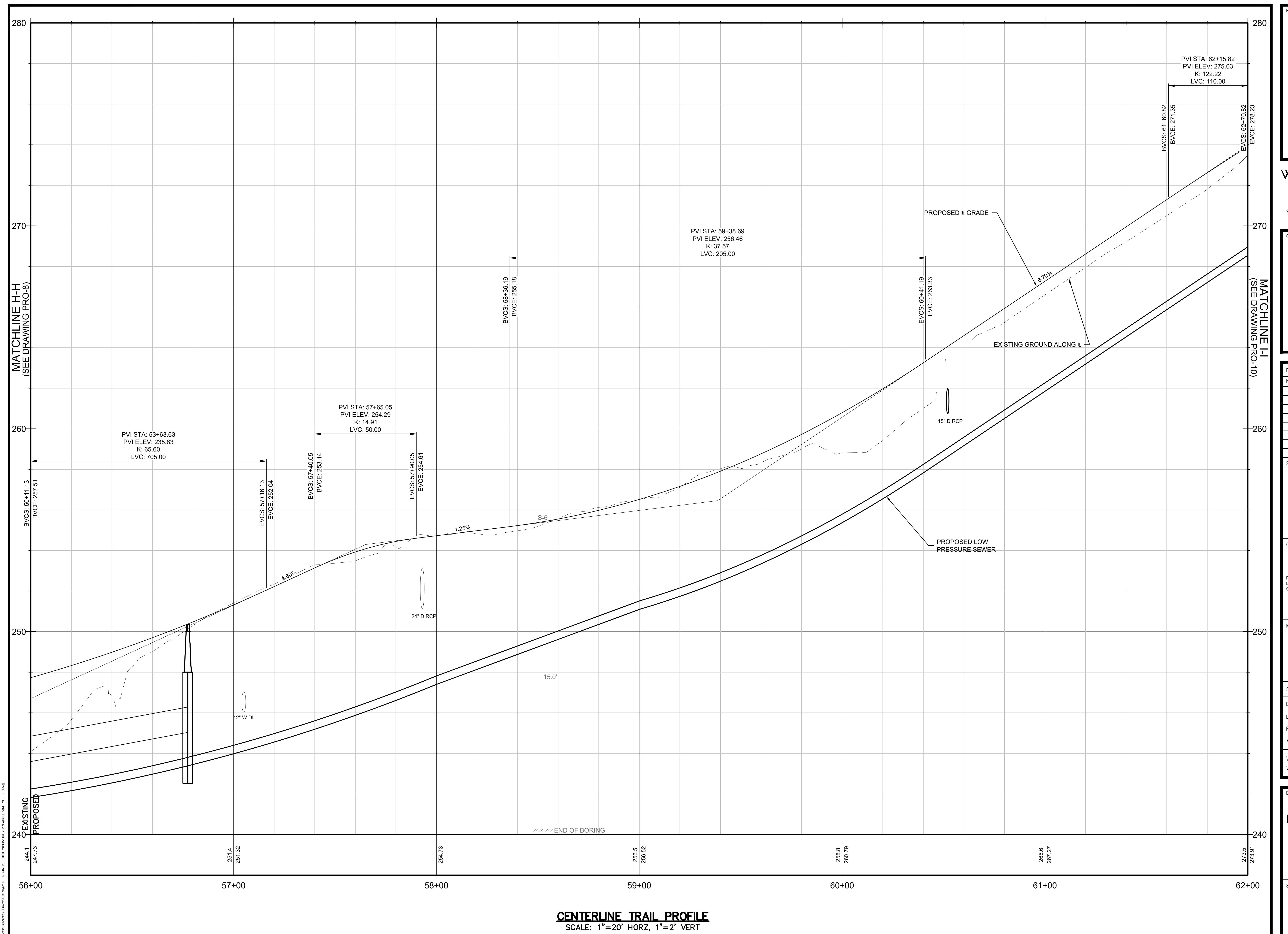
**MULTI-USE PATHWAY
PROFILE
STA. 38+50 TO 44+00**

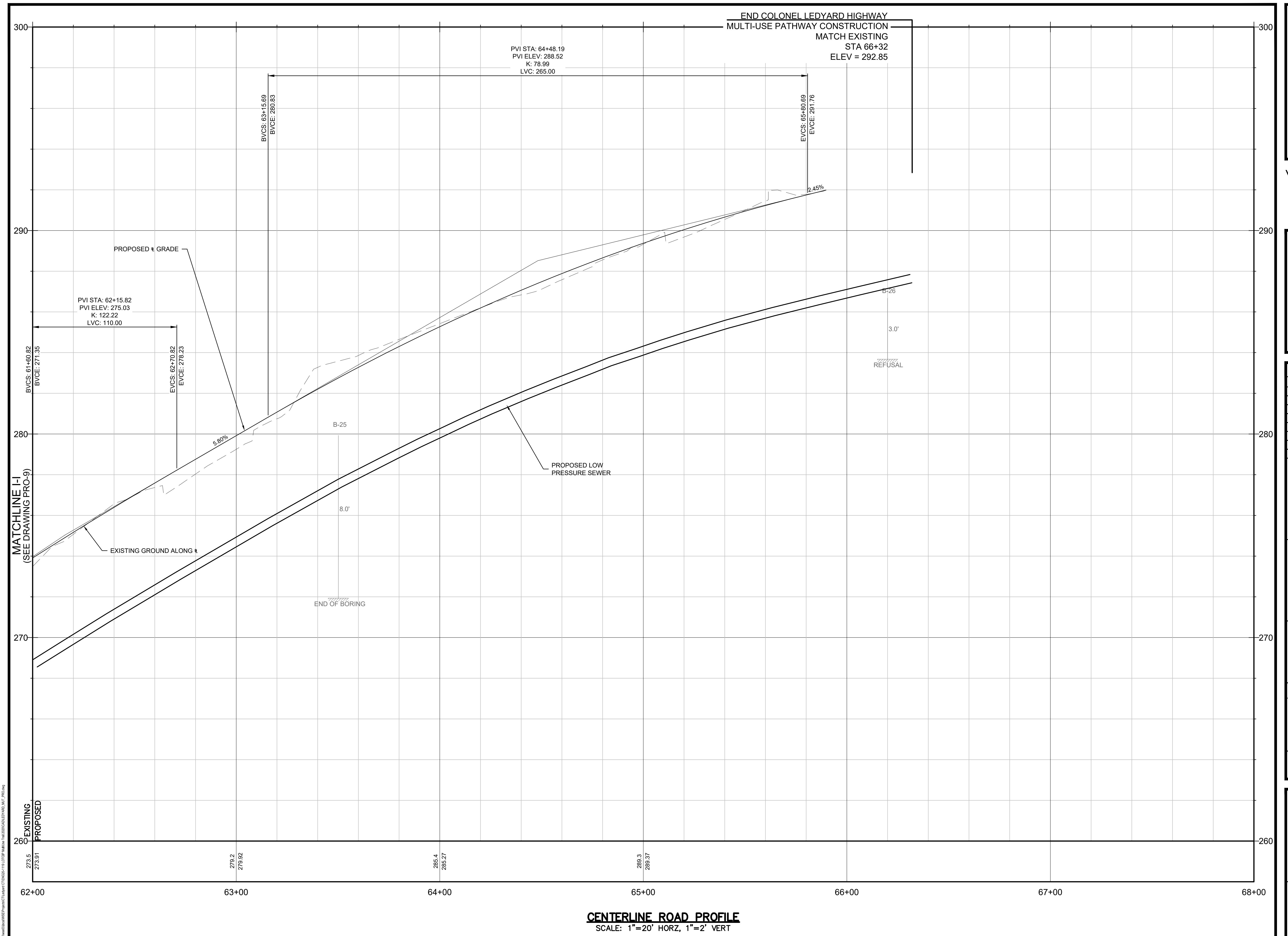
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PRO-06











LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION

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www.westonandsampson.com

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Revisions:
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Date: JUNE 2022

Drawn By: JWG

Reviewed By: RC

Approved By: LAS

W&S Project No.: ENG20-1119
W&S File No.:

Drawing Title:

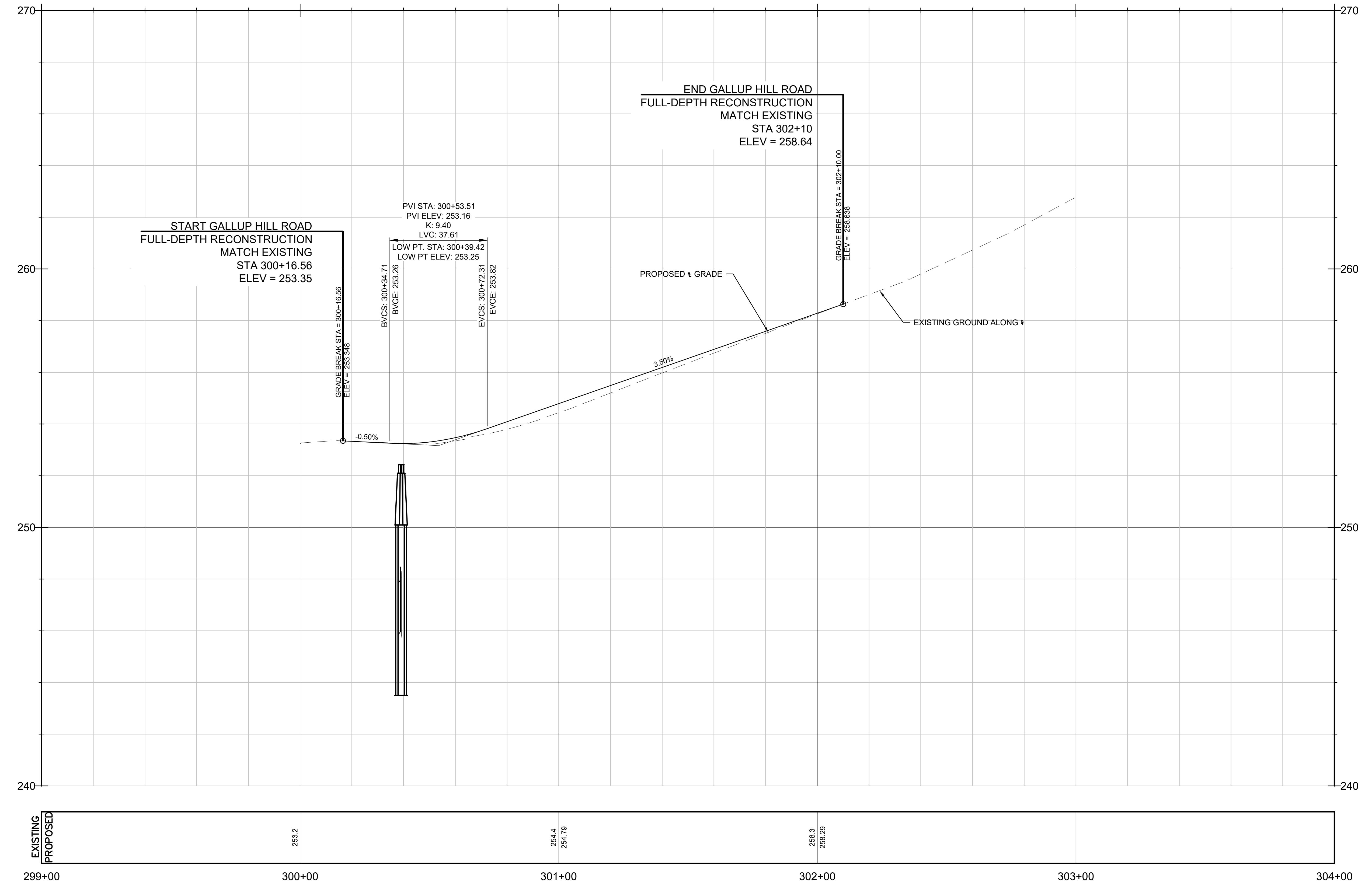
**GALLUP HILL ROAD
PROFILE
STA. 300+00 TO
303+00**

Sheet Number:

PRO-11

Rev. 1.6 Date 04/15/2019

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LEDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

The logo for Weston & Sampson Engineers, Inc. It features the word "Weston" on the left, "Sampson" on the right, and a large ampersand (&) in the center. The "S" in "Sampson" has a small registered trademark symbol (TM) to its upper right. The entire logo is enclosed in a thin black border.

nts:

20+50

305

300

295

290

305

300

295

290

R.O.W.

EL=299.18

-2.00% 2.00% 2.00% 7.00%

PROPOSED RETAINING WALL

-50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50

290 295 300 305

18+00

EL = 293.85

1.5% 2.00% -2.00% 14.6%

15+00

EL=295.72

-2.00% 2.00% 2.00% 2.00%

13+00

315

310

305

300

3.5%

2.00%

2.00%

-2.00%

2.00%

E=308.16

10

20

4.0%

-50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50

SECTIONS

SCALE: 1"=5'

A horizontal bar representing a DNA molecule. The bar is divided into segments of different lengths. Above the bar, the labels '0', '5'', '10'', and '15'' are positioned above the corresponding segments. The '15'' label is located at the far right end of the bar.

Drawing Title:

Sheet Number:

XSC-1



EDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

1 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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JUNE 2022

JWG

By: RC

By: LAS

ect No.: ENG20-1119

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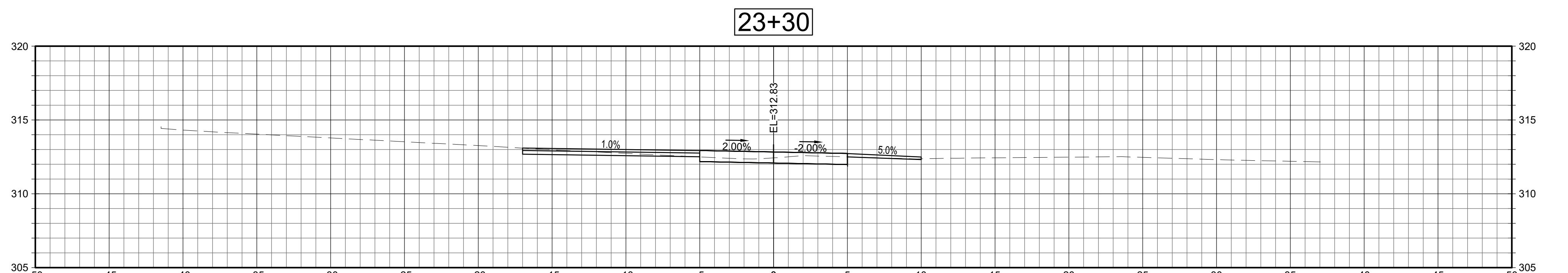
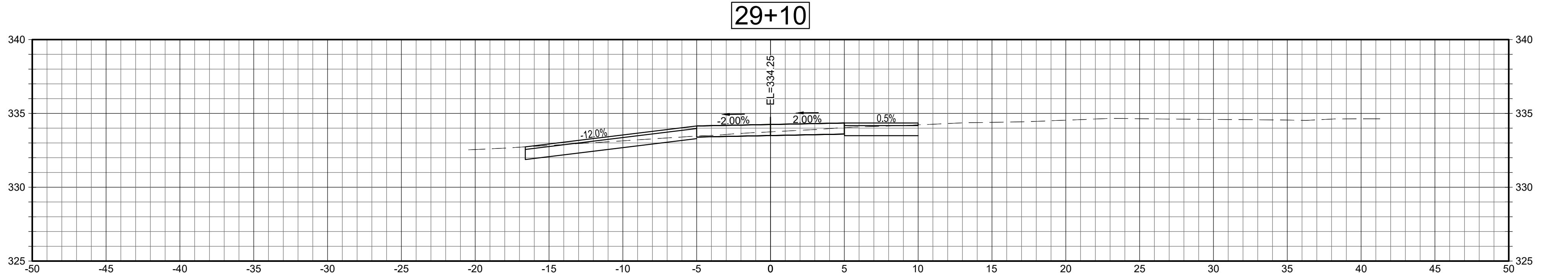
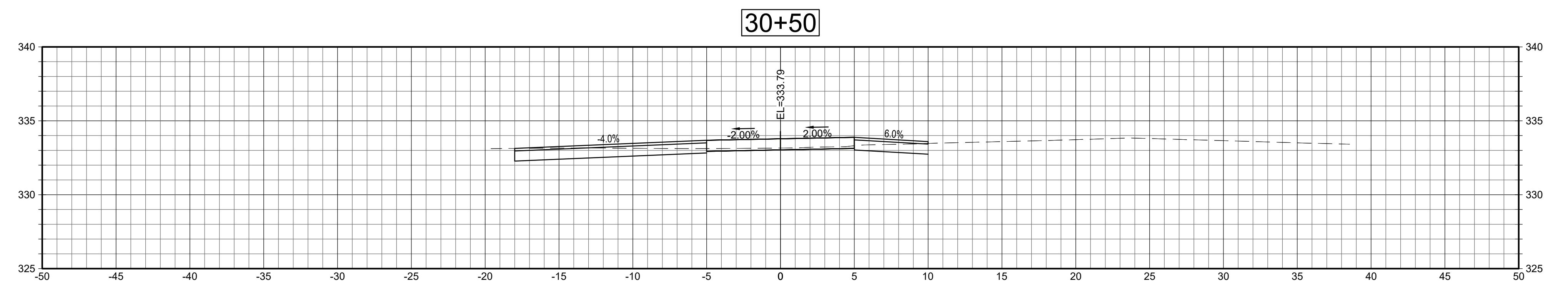
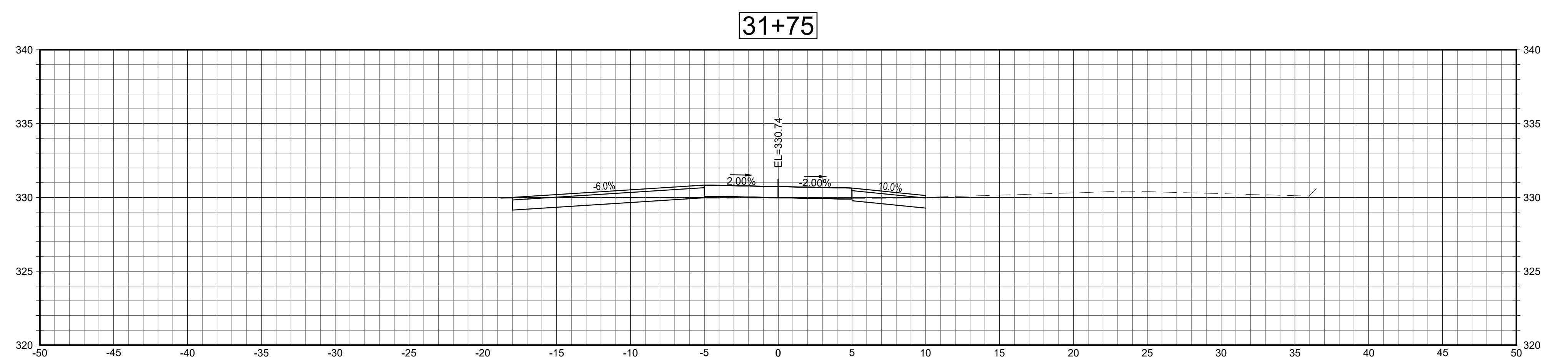
CRITICAL CROSS SECTIONS

her:

XSC-2

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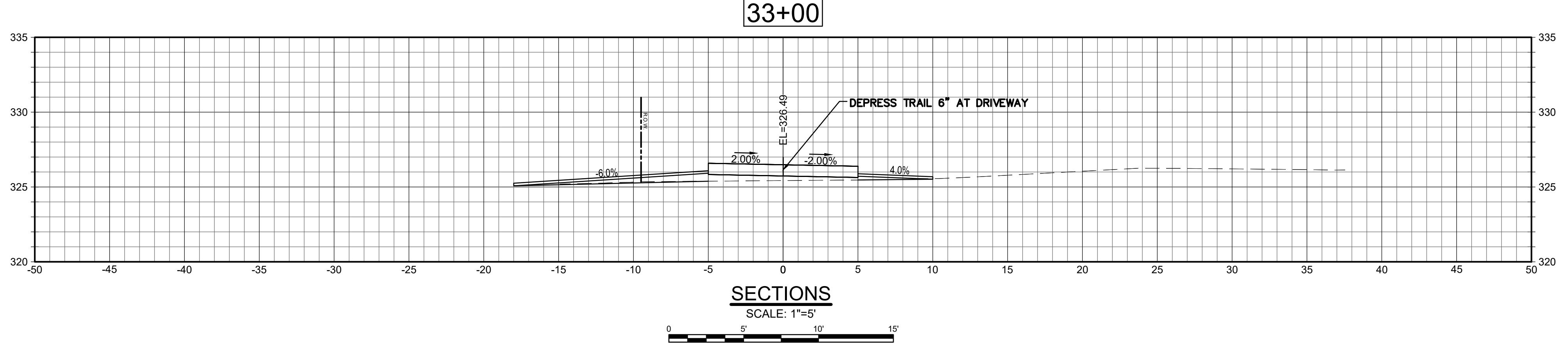
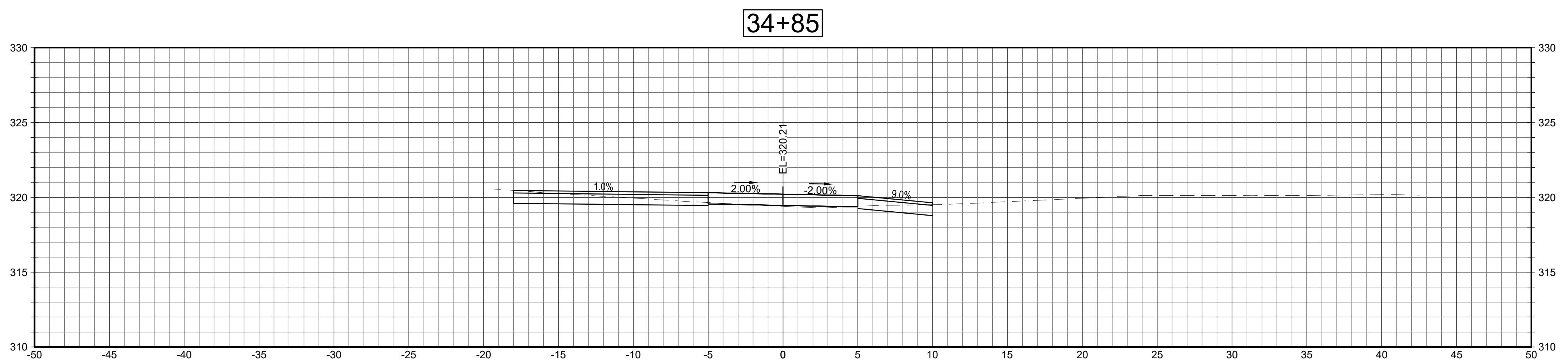
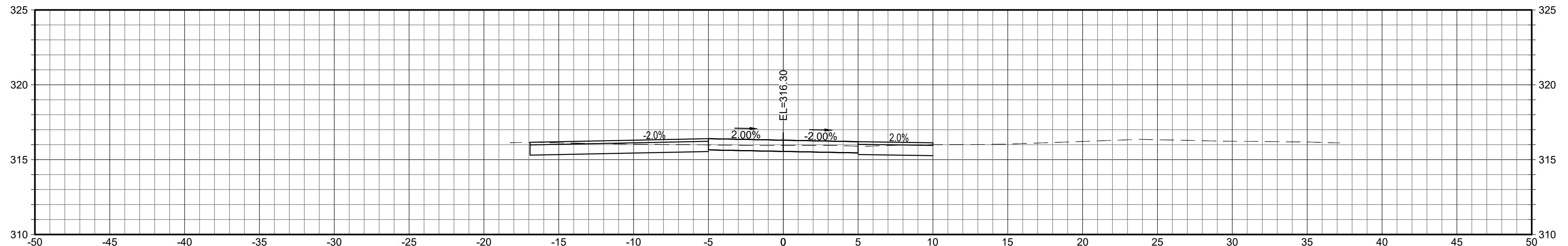
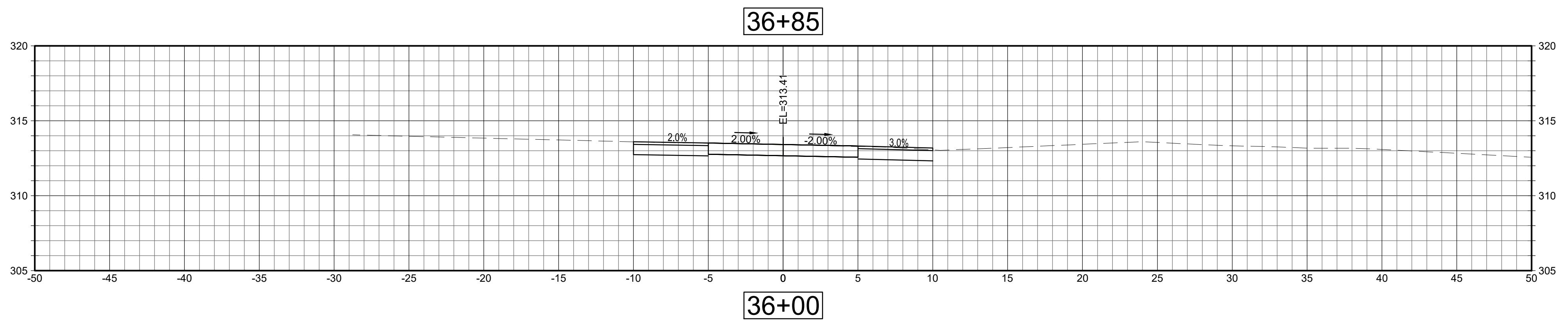
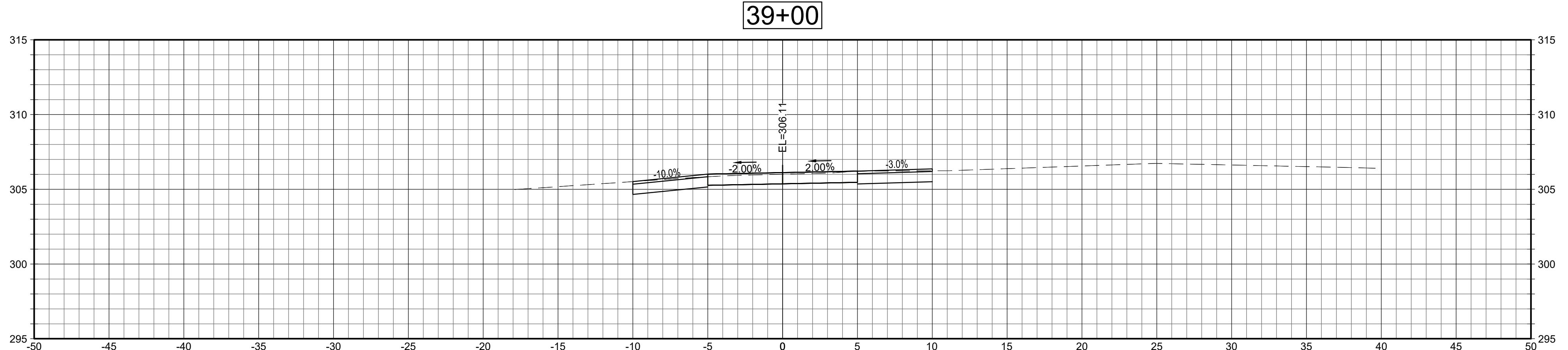


SECTIONS

SECTION SCALE: 1"=5'

A horizontal line representing a DNA molecule. At the left end, the number '0' is written above the line. In the center, the number '5'' is written above the line. To the right of '5'' is a gap represented by a white space. To the right of the gap, the number '10'' is written above the line. To the right of '10'' is another gap represented by a white space. At the far right end, the number '15'' is written above the line.

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TOWN OF LEDYARD, CT

LEDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

Weston & Sampson

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XSC-3



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By: LAS

ect No.: ENG20-1119

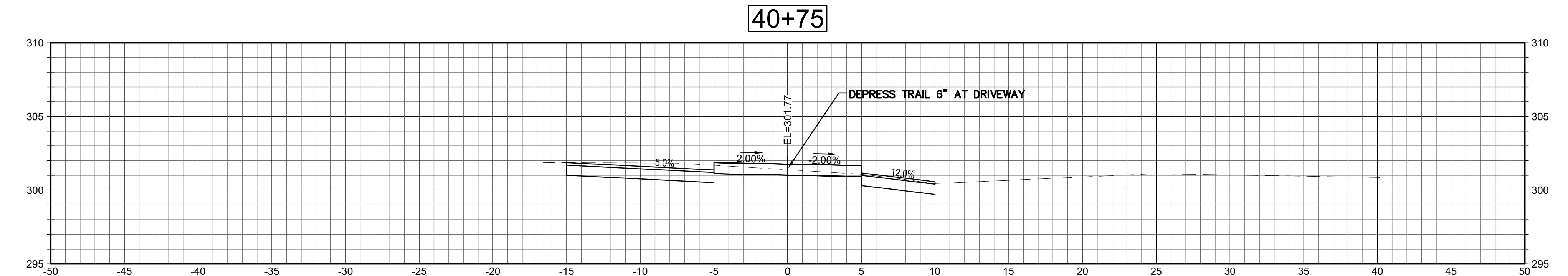
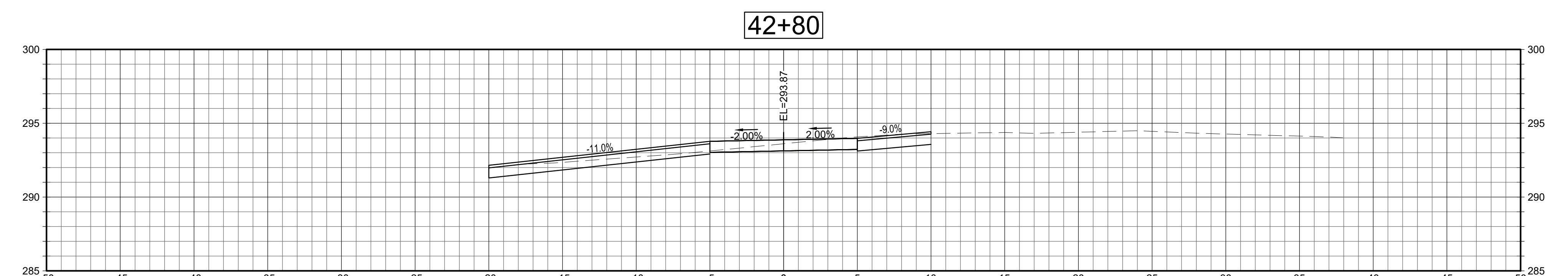
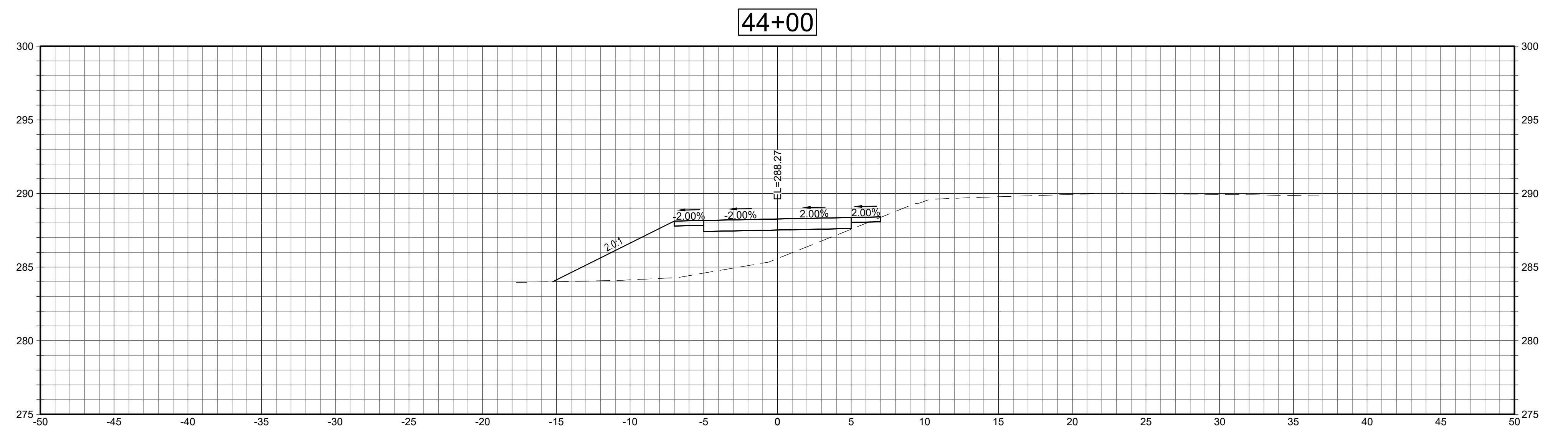
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CRITICAL CROSS SECTIONS

ber:

XSC-4

111



SECTIONS

SCALE: 1"=5'

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LEDYARD HIGH SCHOOL
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SIDEWALK EXTENSION741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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Reviewed By: RC

Approved By: LAS

W&S Project No.: ENG20-1119
W&S File No.:

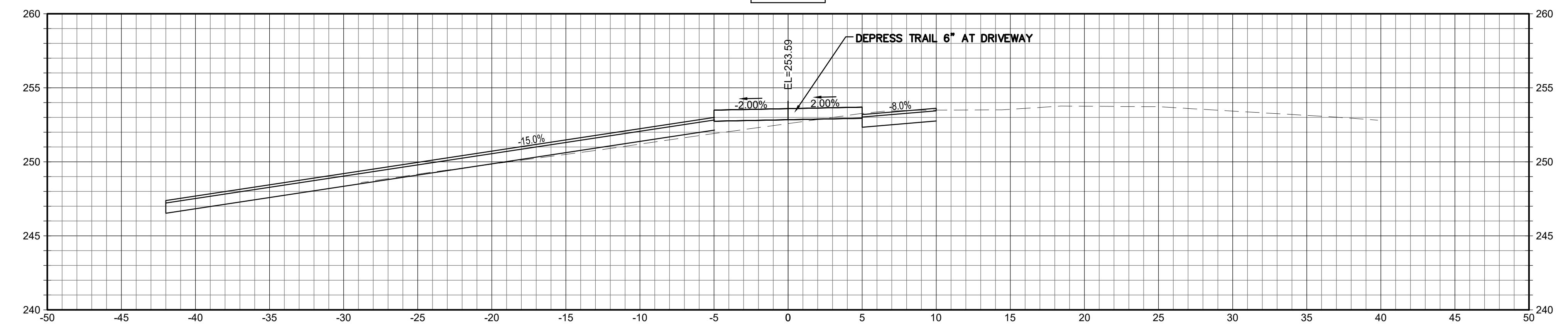
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CRITICAL CROSS
SECTIONS

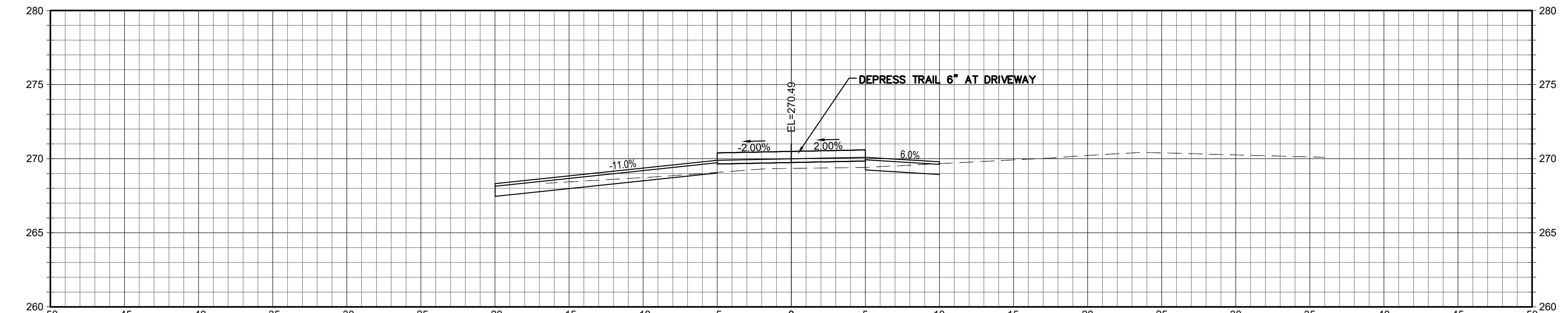
Sheet Number:

XSC-5

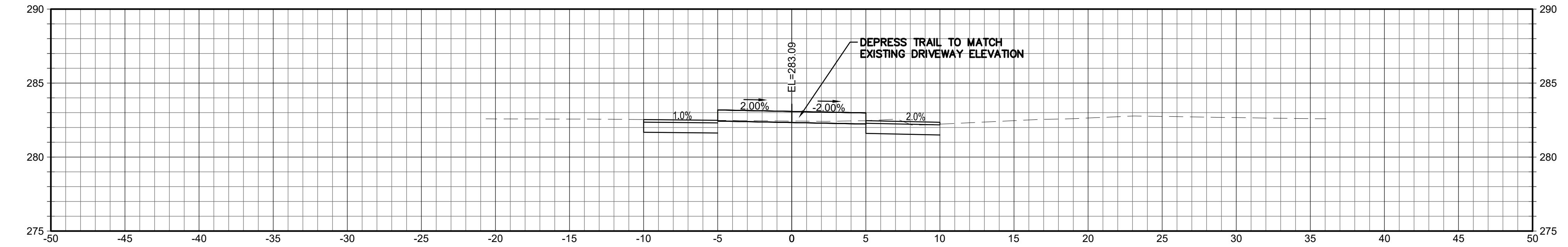
50+81



48+00



45+65



SECTIONS

SCALE: 1"=5'

0 5' 10' 15'

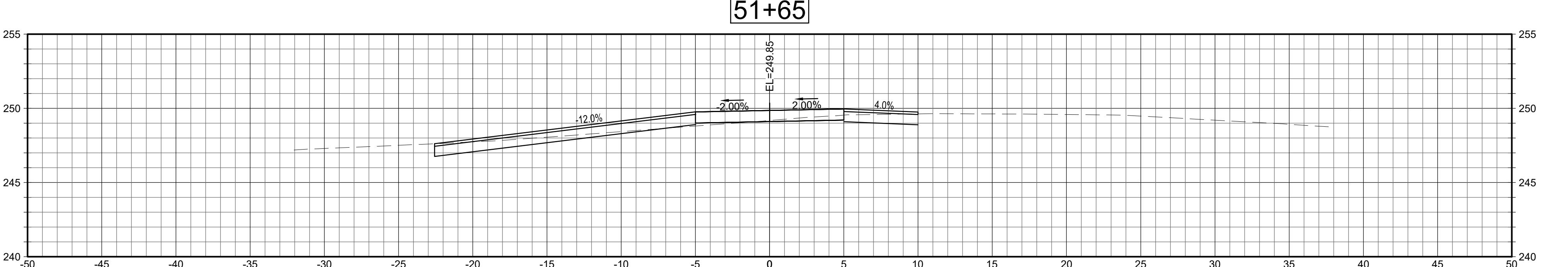
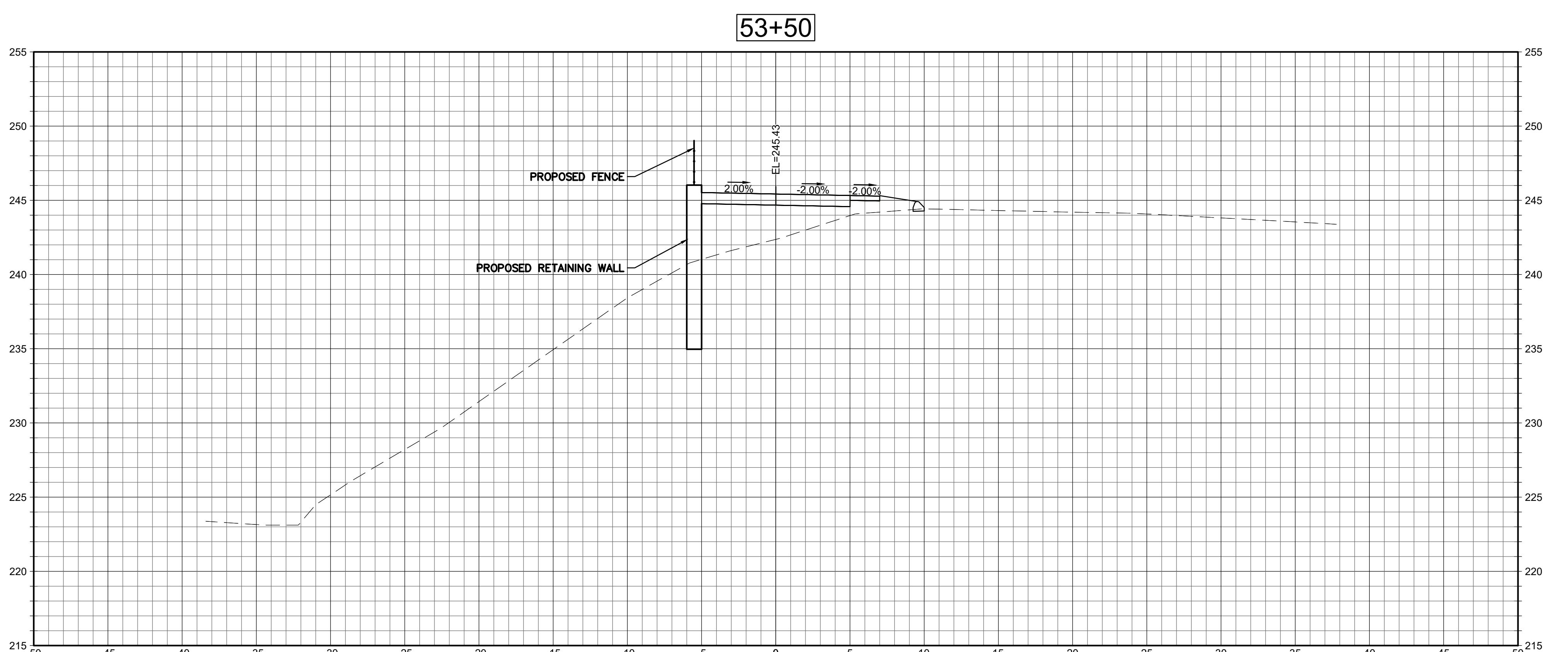
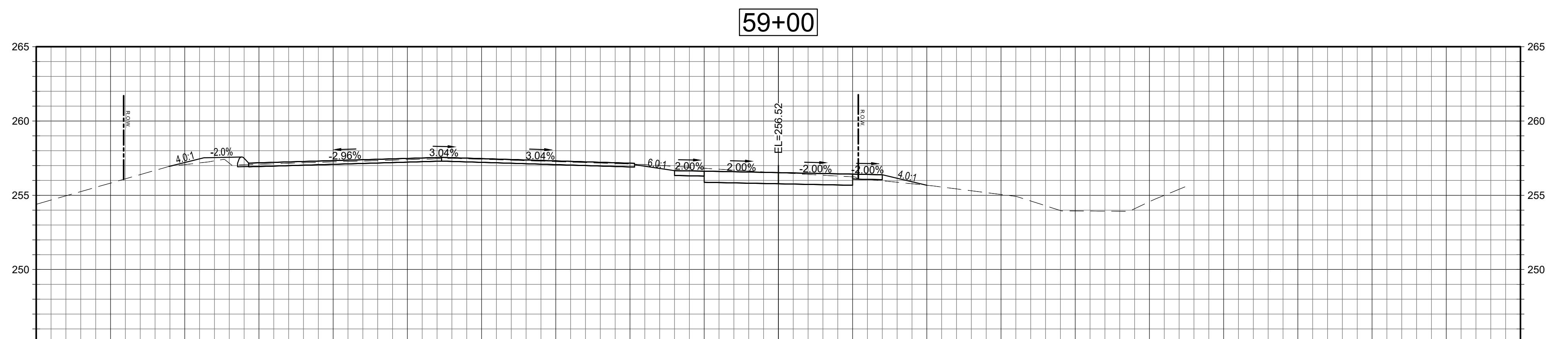


EDYARD HIGH SCHOOL MULTI-USE PATHWAY & SIDEWALK EXTENSION

41 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

The logo for Weston & Sampson Engineers, Inc. It features the company name in a bold, sans-serif font. The word 'ron' is on the left, 'Samps' is on the right, and the ampersand is stylized with a circle above it. Below the logo, the company name is repeated in a smaller, regular font, followed by the address, city, state, and zip code, and the phone number.

6:



SECTIONS

SCALE: 1"=5'

A horizontal line representing a DNA strand. At the left end, there is a vertical tick mark labeled '5''. In the middle of the strand, there is a vertical tick mark labeled '10''. At the right end, there is a vertical tick mark labeled '15''. The strand is divided into three segments by these markers: a short segment from the start to the 5' mark, a medium segment from the 5' mark to the 10' mark, and a long segment from the 10' mark to the 15' mark.

Drawing Title:

Sheet Number:

XSC-6



LEDYARD HIGH SCHOOL
MULTI-USE PATHWAY &
SIDEWALK EXTENSION

741 COLONEL LEDYARD HIGHWAY
LEDYARD, CT 06339

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W&S File No.:

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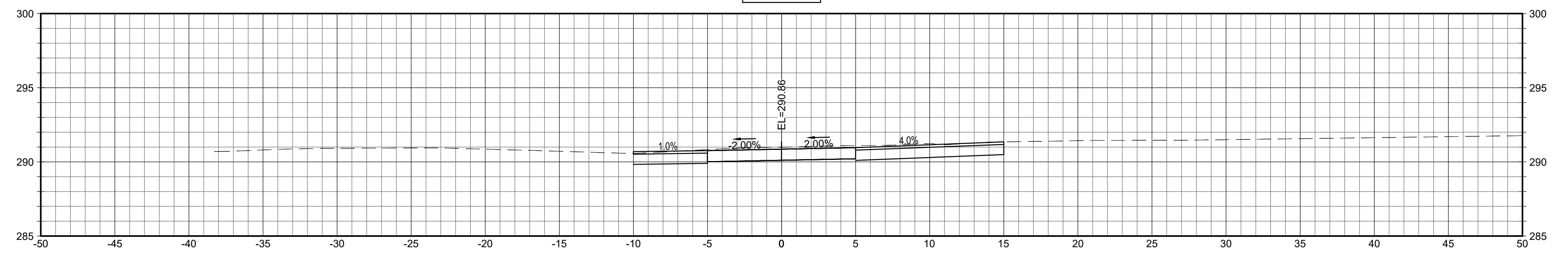
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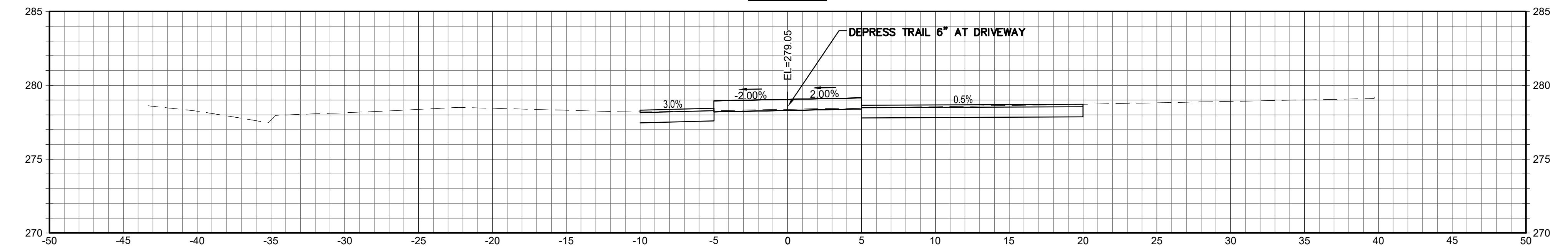
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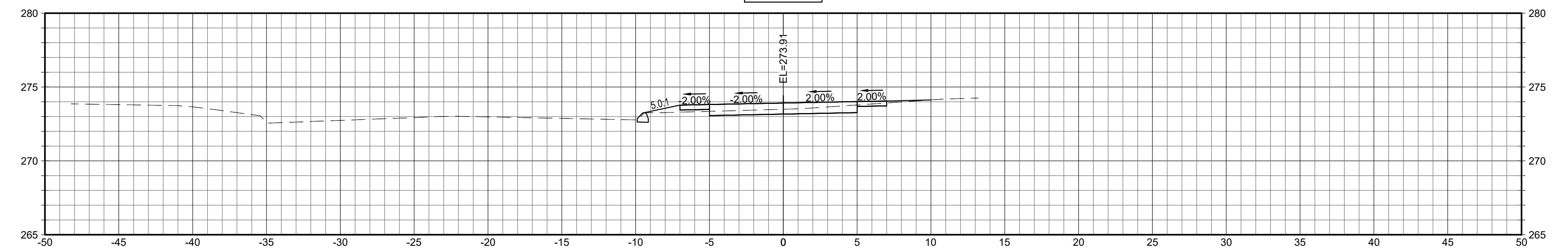
65+50



62+85



62+00



SECTIONS

SCALE: 1"=5'

0 5' 10' 15'



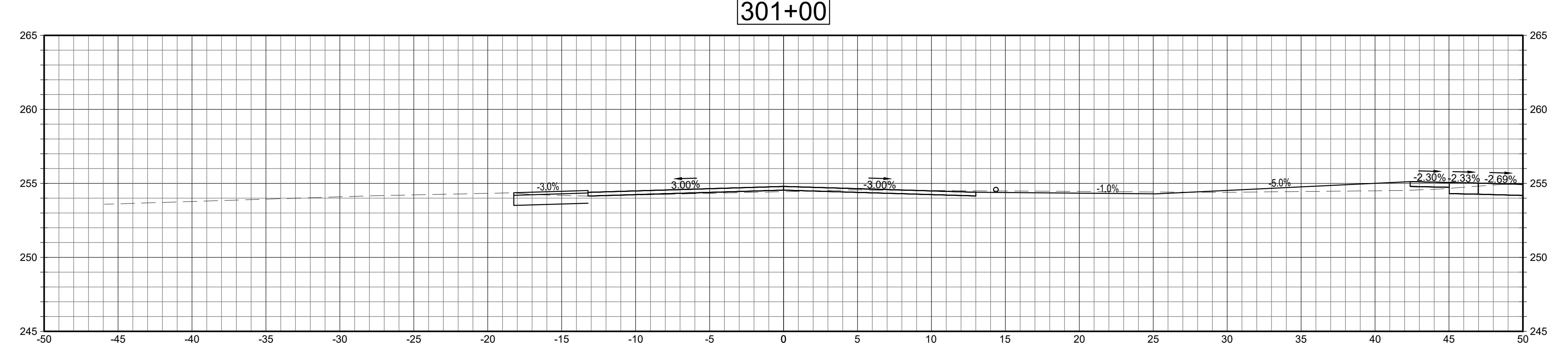
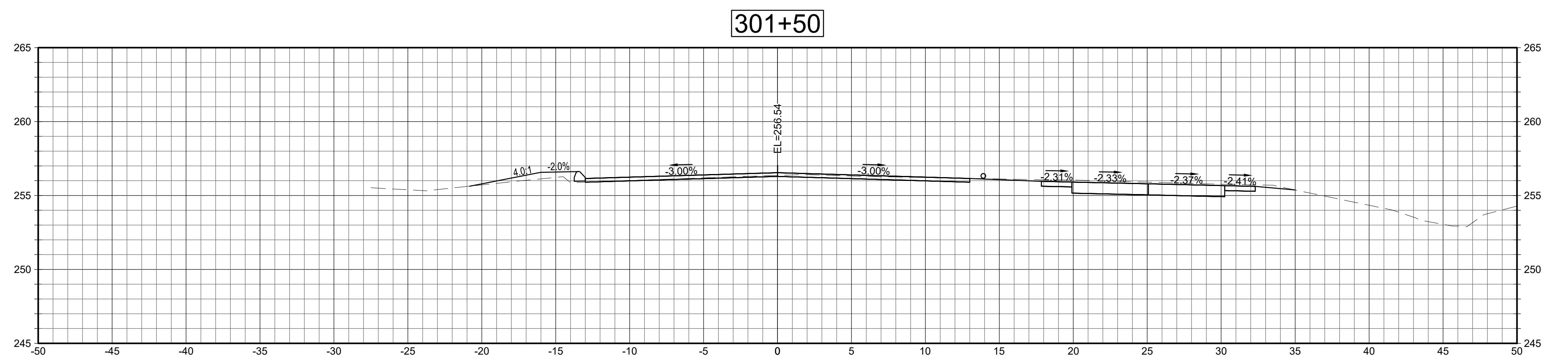
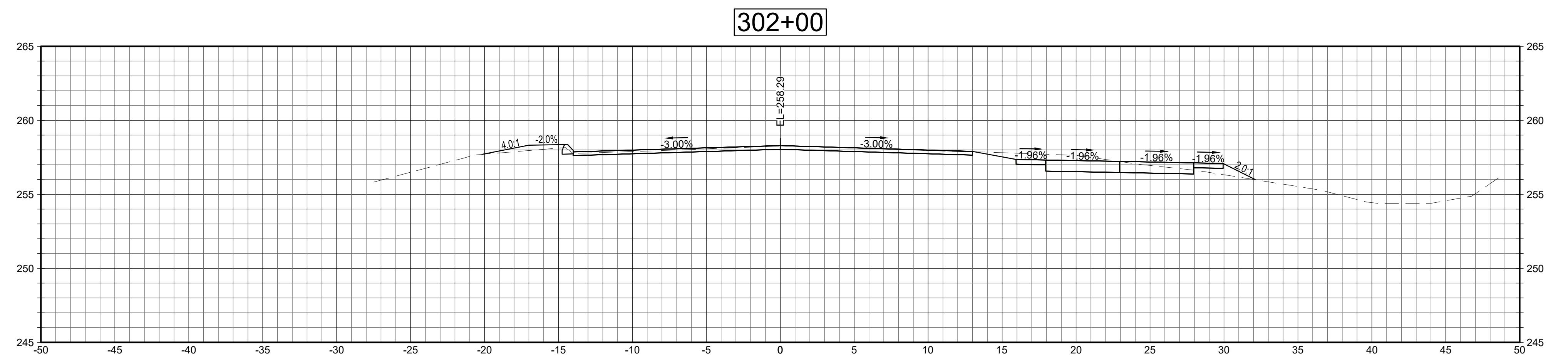
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SECTIONS

SCALE: 1"=5'

A diagram of a 15' long DNA molecule. The molecule is represented by a horizontal line with a 5' end at the left and a 15' end at the right. The molecule is composed of several segments: a 5' segment (black), a 10' segment (white), and a 15' segment (black). The segments are labeled with their respective lengths: 5', 10', and 15'.

ing Title:

Part Number:

XSC-8