

PROJECT LOCATION PLAN
SCALE: 1" = 1000'

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TOWN OF WATERTOWN
STEELE BROOK GREENWAY
STATE PROJECT NO. 153-125
FEDERAL PROJECT NO. PEDS(229)

PRELIMINARY DESIGN SUBMISSION



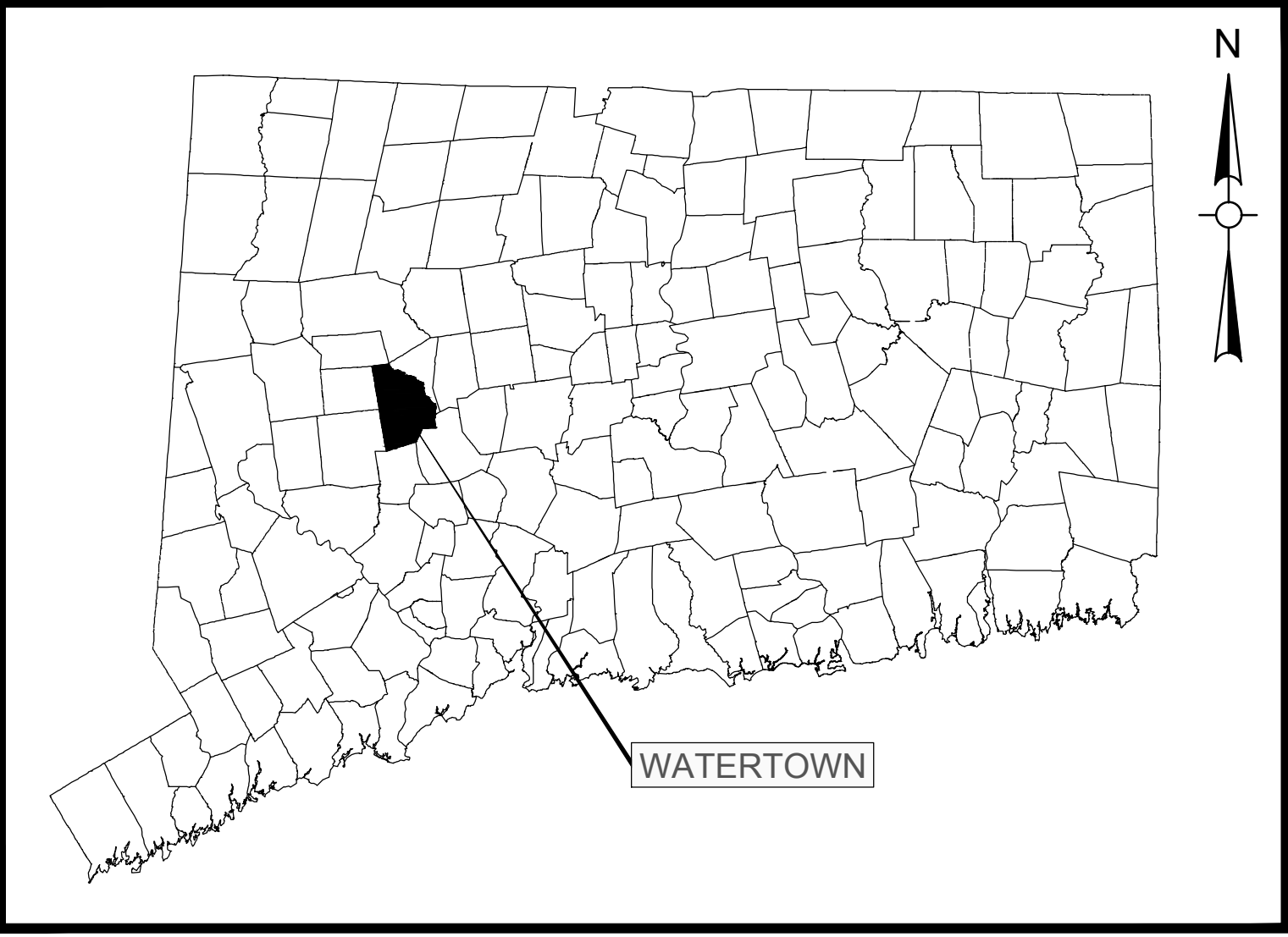
STEELE BROOK GREENWAY MULTI-USE PATHWAY
(STA: 10+00 TO 47+56)

MARK RAIMO
TOWN MANAGER

GERALD LUKOWSKI
DIRECTOR OF PUBLIC WORKS

PAUL BUNEVICH, P.E.
TOWN ENGINEER

PLANS APPROVED BY:



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:
PERIERA ENGINEERING, LLC

VERTICAL DATUM - NAVD88
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SEPTEMBER 2023



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Issued For:

COA:

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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 TRANSPORTATIONS 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 UPLOAD 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 HOURS PRIOR TO EXCAVATING AT ANY LOCATION, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS. 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.

THE CONTRACTOR SHALL 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. VALVES AND SERVICE CURB STOPS ARE TO BE OPERATED BY GROTON UTILITY STAFF ONLY.
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 (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AS REVISED ON OCTOBER 26, 2018, AND THE STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC ON AUGUST 29, 2019.

A.

THE TYPE OF SURVEY PERFORMED IS A LIMITED TOPOGRAPHIC SURVEY.

B.

BOUNDARY DETERMINATION/OPINION WAS NOT MADE. PROPERTY LINES DEPICTED HEREON WERE COMPILE FROM THE TOWN OF WATERTOWN GIS DATA.

C.

THIS SURVEY CONFORMS TO HORIZONTAL ACCURACY CLASS A-2, VERTICAL ACCURACY CLASS V-3, AND TOPOGRAPHIC ACCURACY CLASS T-2.
2.

THE ELEVATIONS DEPICTED HEREON ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM (NAV83) UTILIZING GNSS SURVEY METHODS ON MAY, 2023.
3.

THE BEARINGS DEPICTED HEREON ARE BASED UPON THE NORTH AMERICAN DATUM (NAD83) UTILIZING GNSS SURVEY METHODS ON MAY, 2023.
4.

THE SUBJECT PARCEL APPEARS TO LIE WITHIN FLOOD ZONES A, A4, A5, A8, B AND C AS DEPICTED ON FEMA'S FLOOD INSURANCE RATE MAP (FIRM) ENTITLED: TOWN OF WATERTOWN, CONNECTICUT LITCHFIELD COUNTY; PANEL 6 OF 11; COMMUNITY-PANEL NUMBER 090058006B; EFFECTIVE DATE: NOVEMBER 5, 1980; SCALE: 1"=400'. ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION DEPICTED HEREON IS APPROXIMATE ONLY AND DOES NOT IN ANY WAY CONSTITUTE AN OPINION OR REPRESENTATION OF ACTUAL FLOODPLAIN AND/OR FLOODWAY INFORMATION BY PEREIRA ENGINEERING, LLC (PE). PE DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION, AND MAKES NO REPRESENTATIONS UPON WHICH THE CLIENT SHOULD RELY IN CONNECTION WITH THE FLOOD ZONE OF THE SUBJECT PARCEL OR ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION DEPICTED HEREON.
5.

UTILITY INFORMATION DEPICTED HEREON IS APPROXIMATE AND IS BASED ON VISIBLE EVIDENCE OF SURFACE AND OVERHEAD STRUCTURE LOCATIONS AND AS COMPILED FROM EXISTING RECORD MAPPING AVAILABLE DURING THE PREPARATION OF THE SURVEY. ALL CONTRACTORS SHOULD CONTACT "CALL BEFORE YOU DIG" AT 1(800)922-4455 FOR VERIFICATION OF UTILITY INFORMATION PRIOR TO START OF ANY WORK.

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

Project:

PROJECT NO. 153-125

STEELE BROOK
GREENWAY

TOWN OF WATERTOWN, CT

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Consultants:

Revisions:		
No.	Date	Description

Seal:

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Scale:

Date:

Drawn By: DK

Reviewed By: KAC

Approved By: MJJ

W&S Project No.:

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Drawing Title:

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 STEEPER THAN 2:1 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

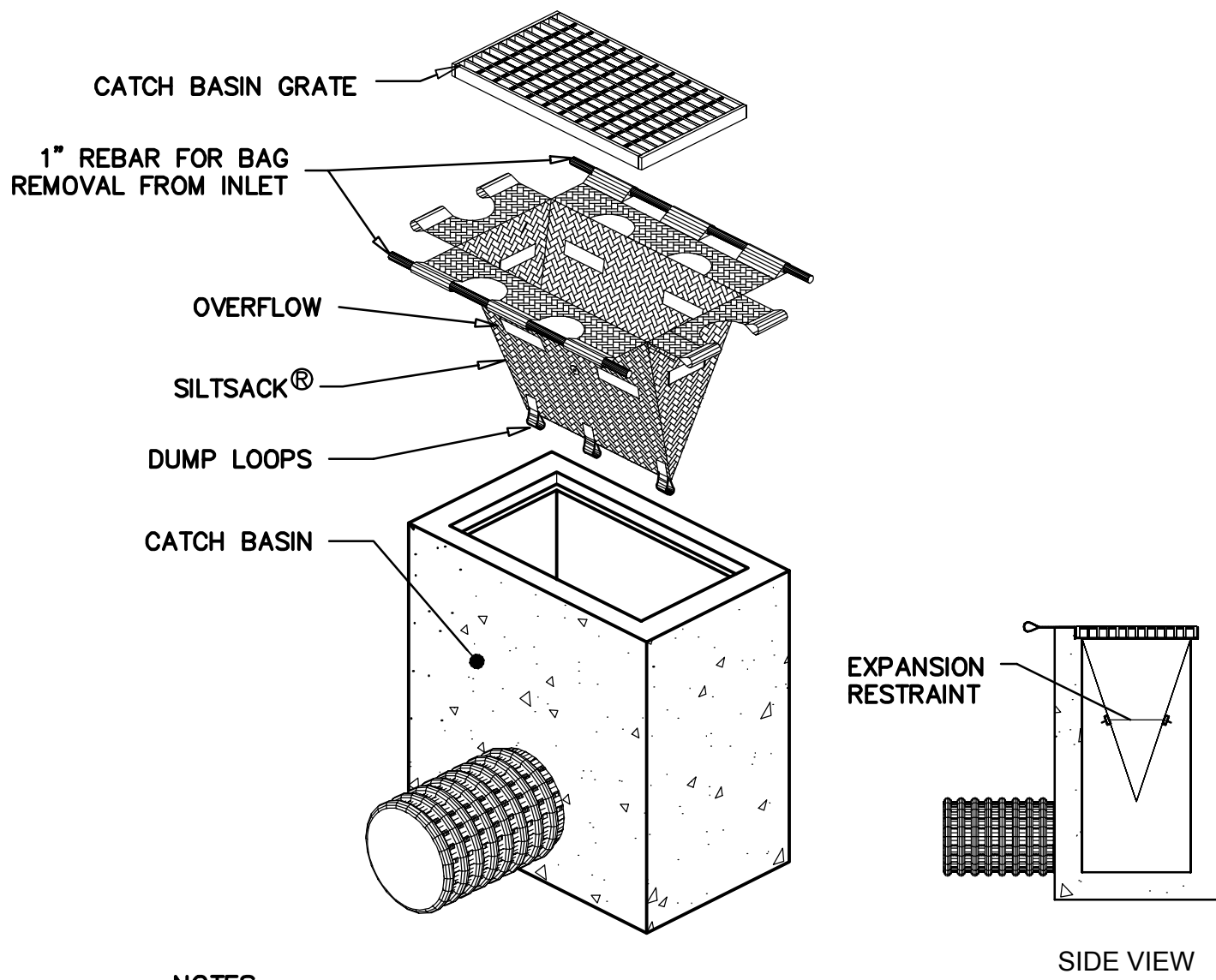
PRIOR TO COMMENCEMENT OF WORK, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED. A TYPICAL SEQUENCE OF CONSTRUCTION IS:

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.

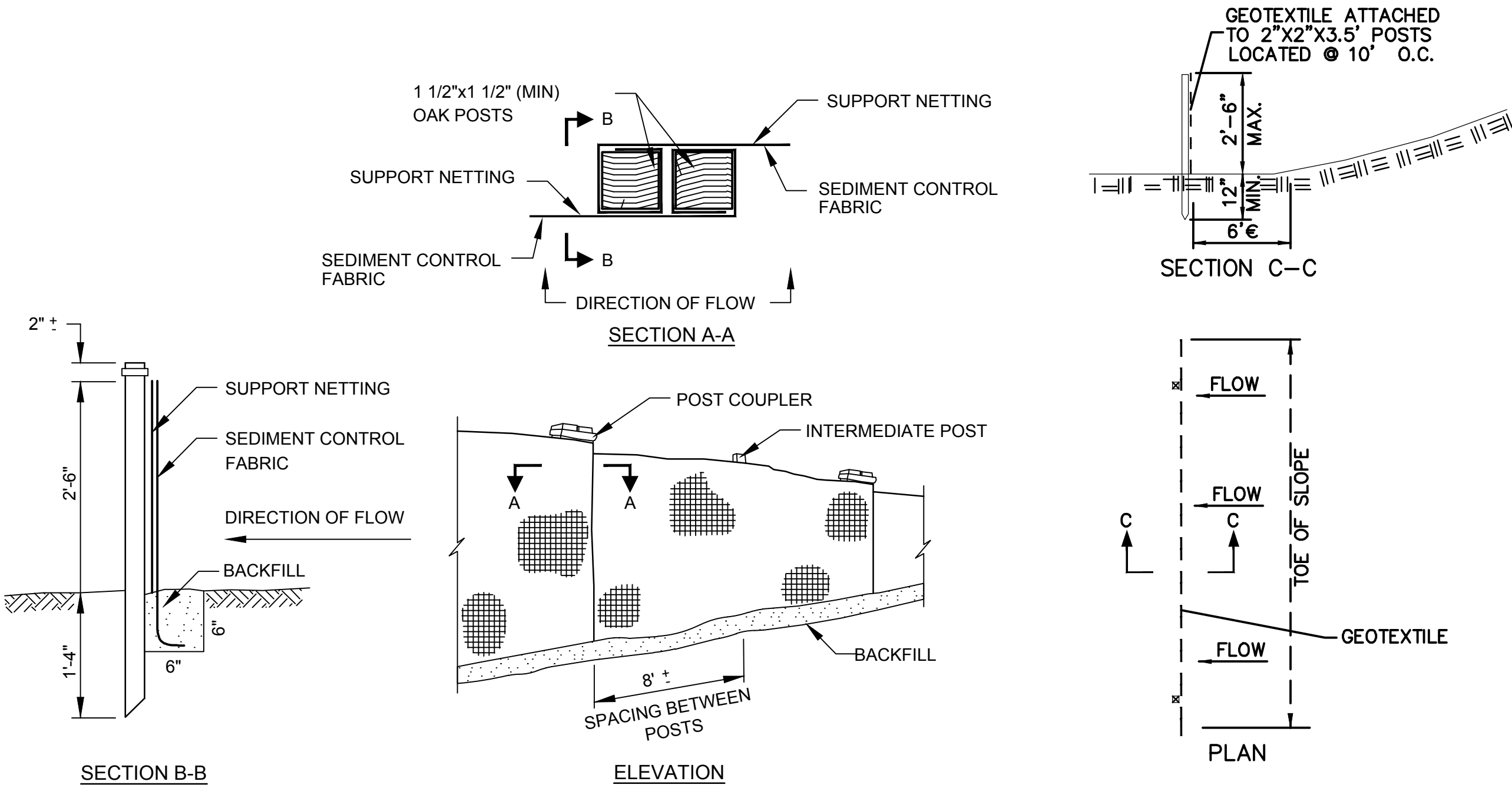
A CHECK LIST PROVIDED BY THE ENGINEER SHALL BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER.



- 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

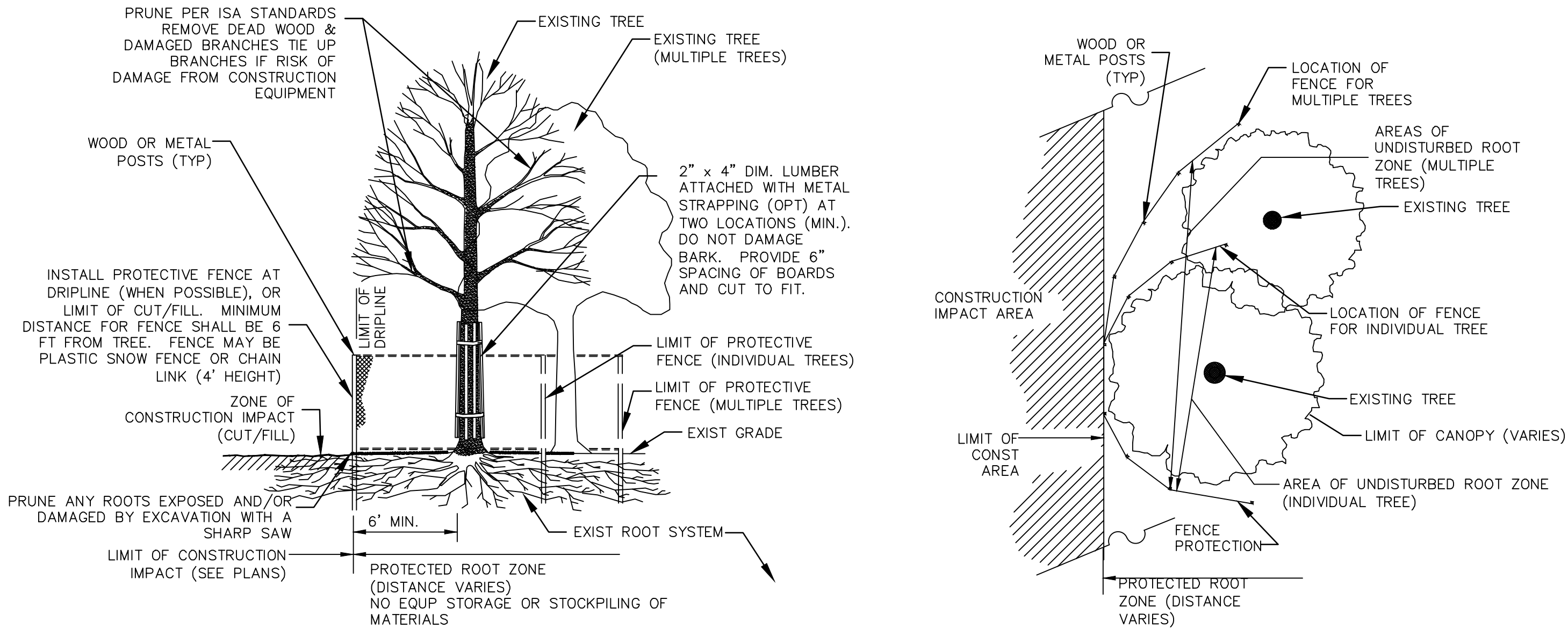
N.T.S.



SEDIMENTATION AND EROSION CONTROL DETAIL

(SILT FENCE)

N.T.S.



EXISTING TREE PROTECTION

N.T.S.

Project:



STEEL BROOK GREENWAY

61 ECHO LAKE ROAD, CT 06795



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SEDIMENTATION AND
EROSION CONTROL
DETAILS

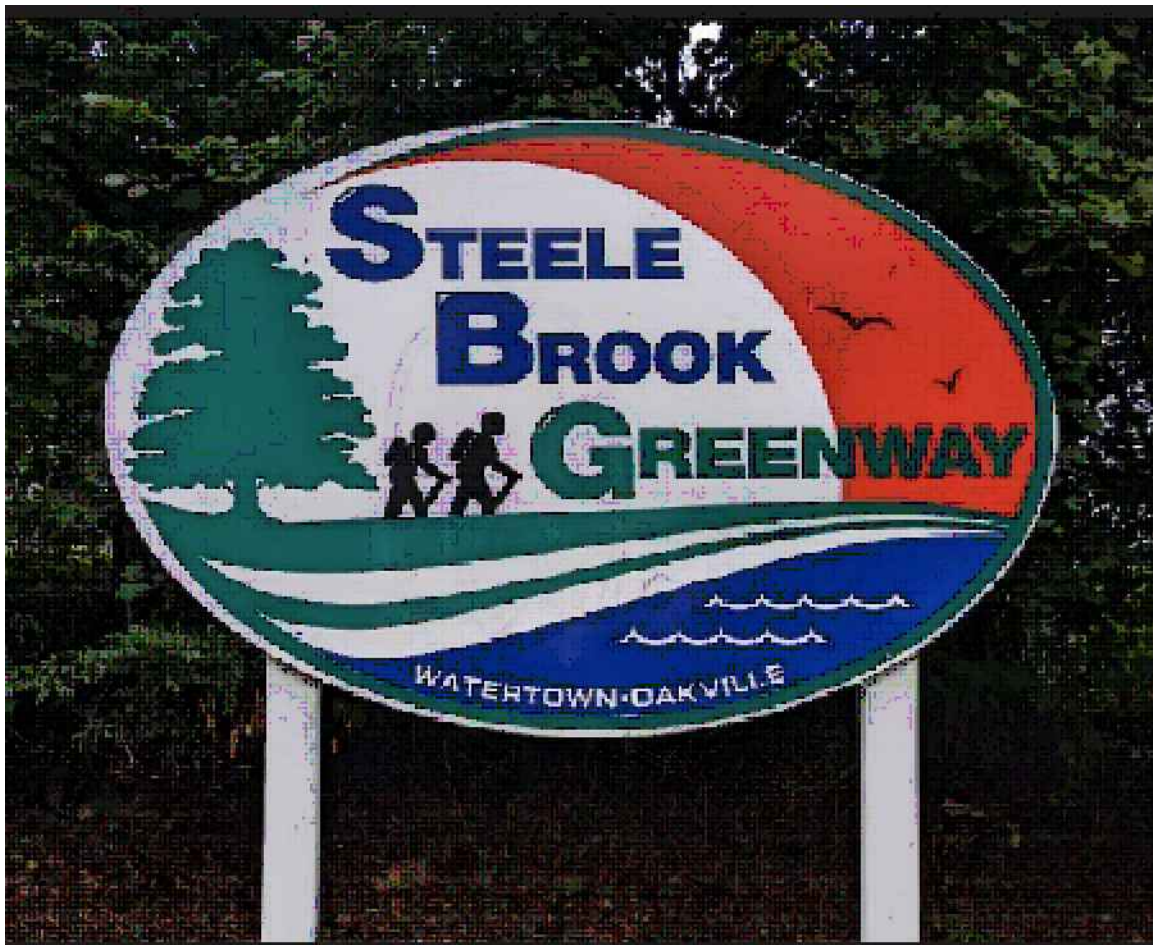
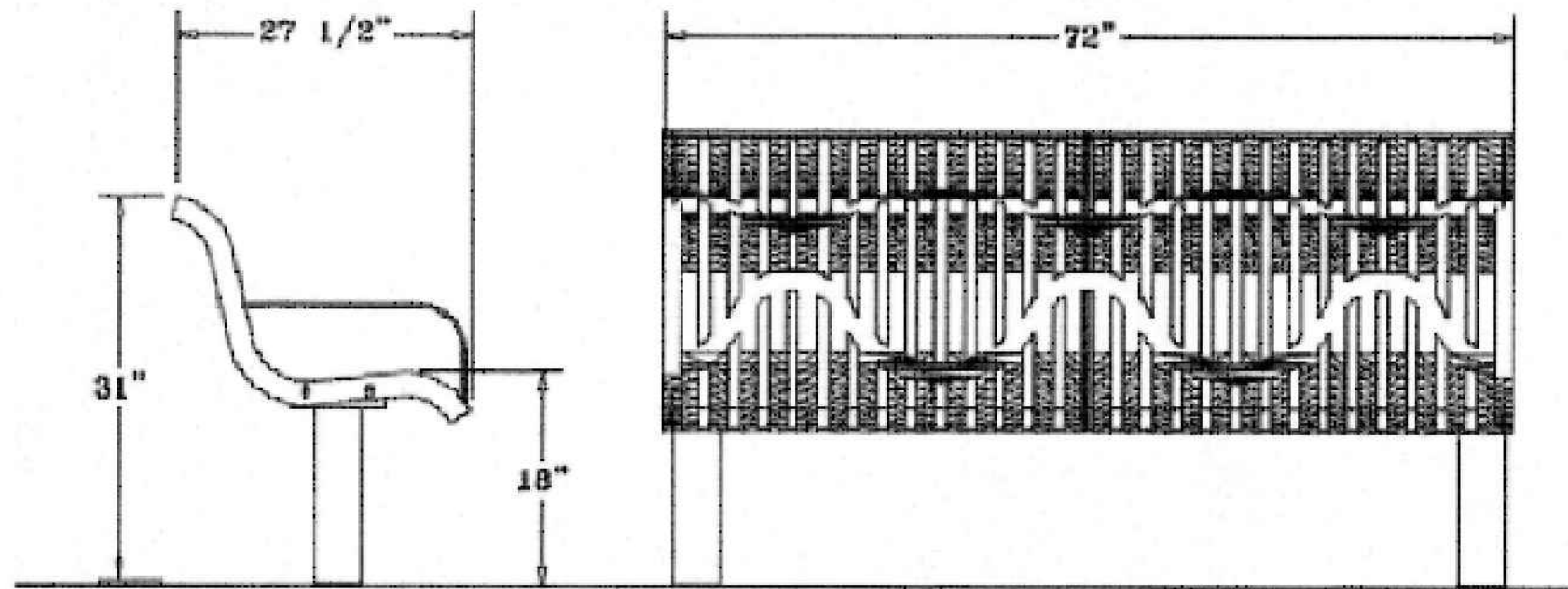
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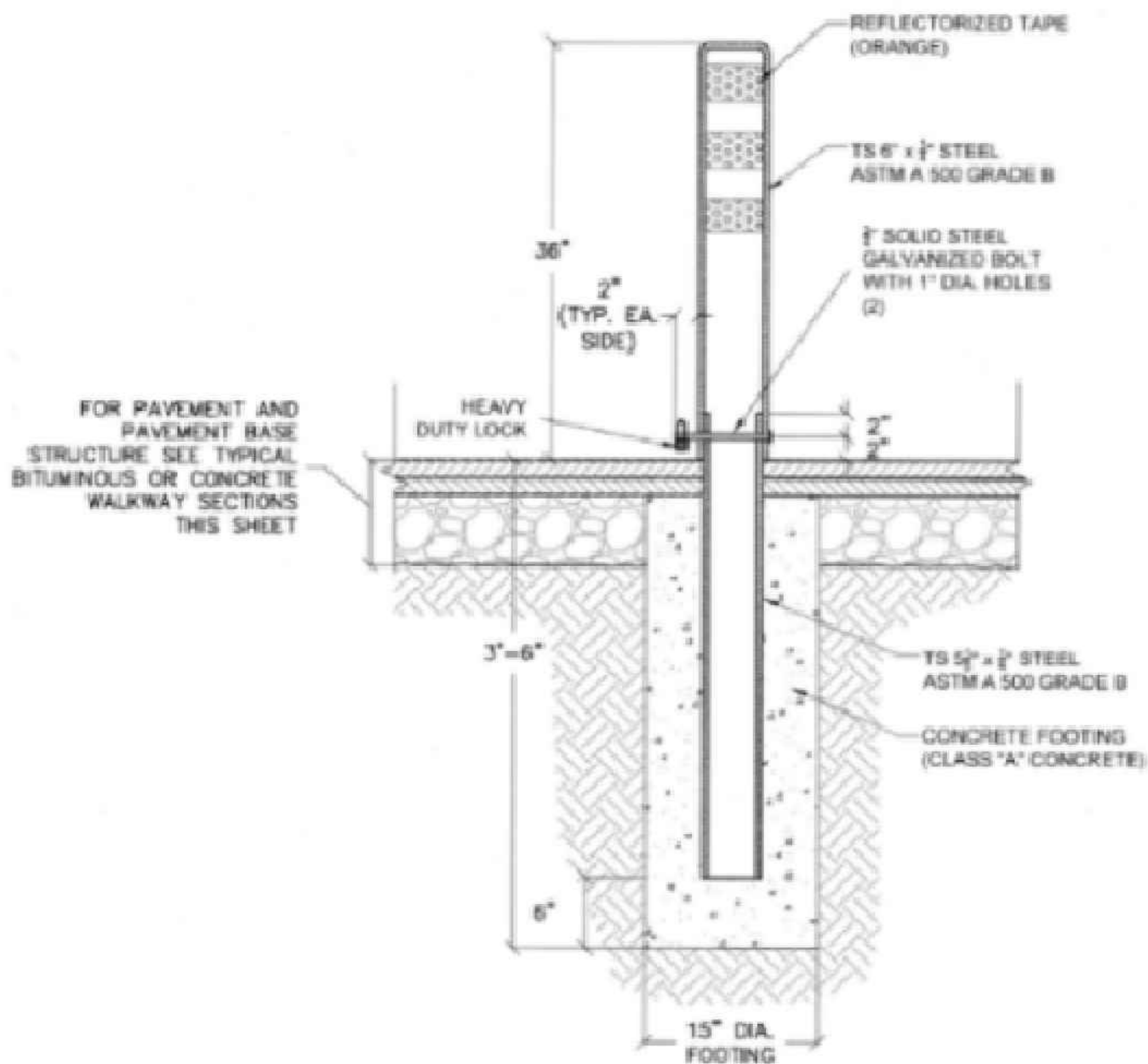
\\w03\Bldg\BSP\proj\CT\Waterloo\CT\NG\23-046_Steel_Brook_Greenway_DET.dwg



6-FT CLASSIC WINGLINE STYLE BENCH
NOT TO SCALE



STEELE BROOK GREENWAY GATEWAY SIGNAGE
NOT TO SCALE



REMOVABLE BARRIER POST
NOT TO SCALE

Project:



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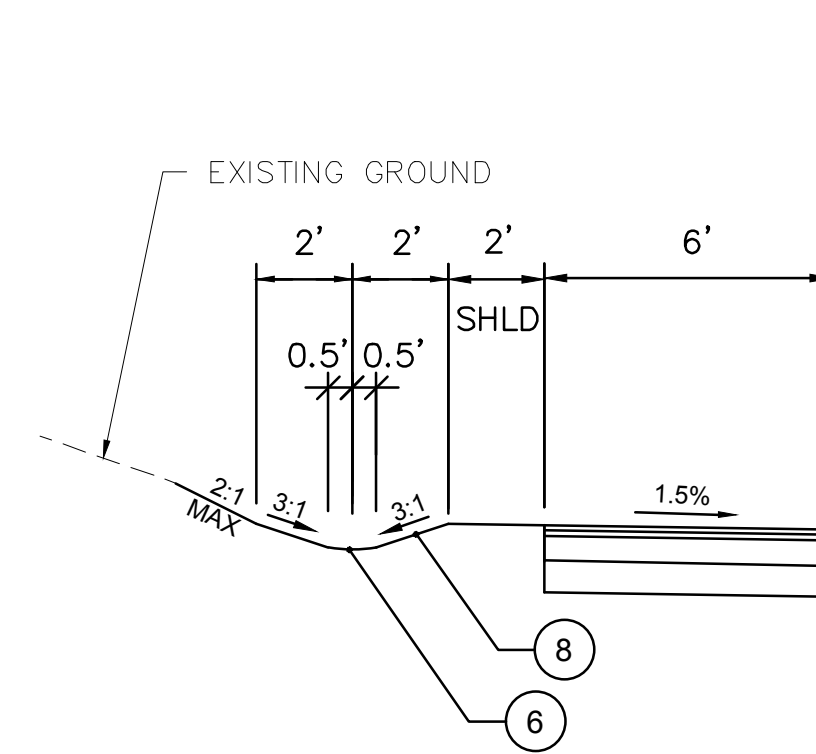
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Drawing Title:

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GREENWAY MISC.
DETAILS**

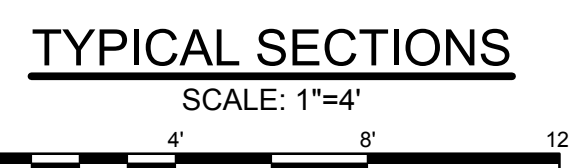
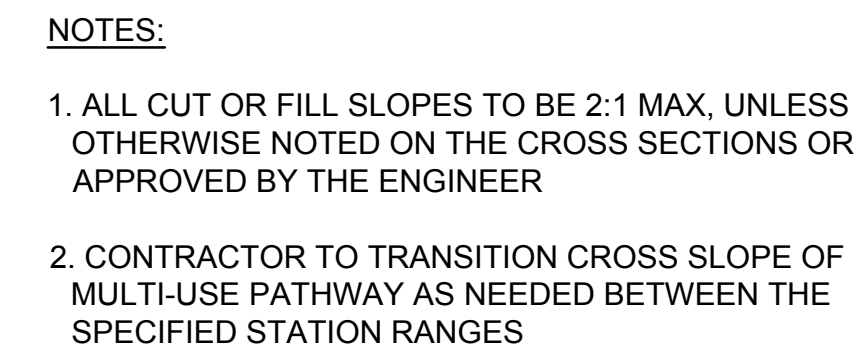
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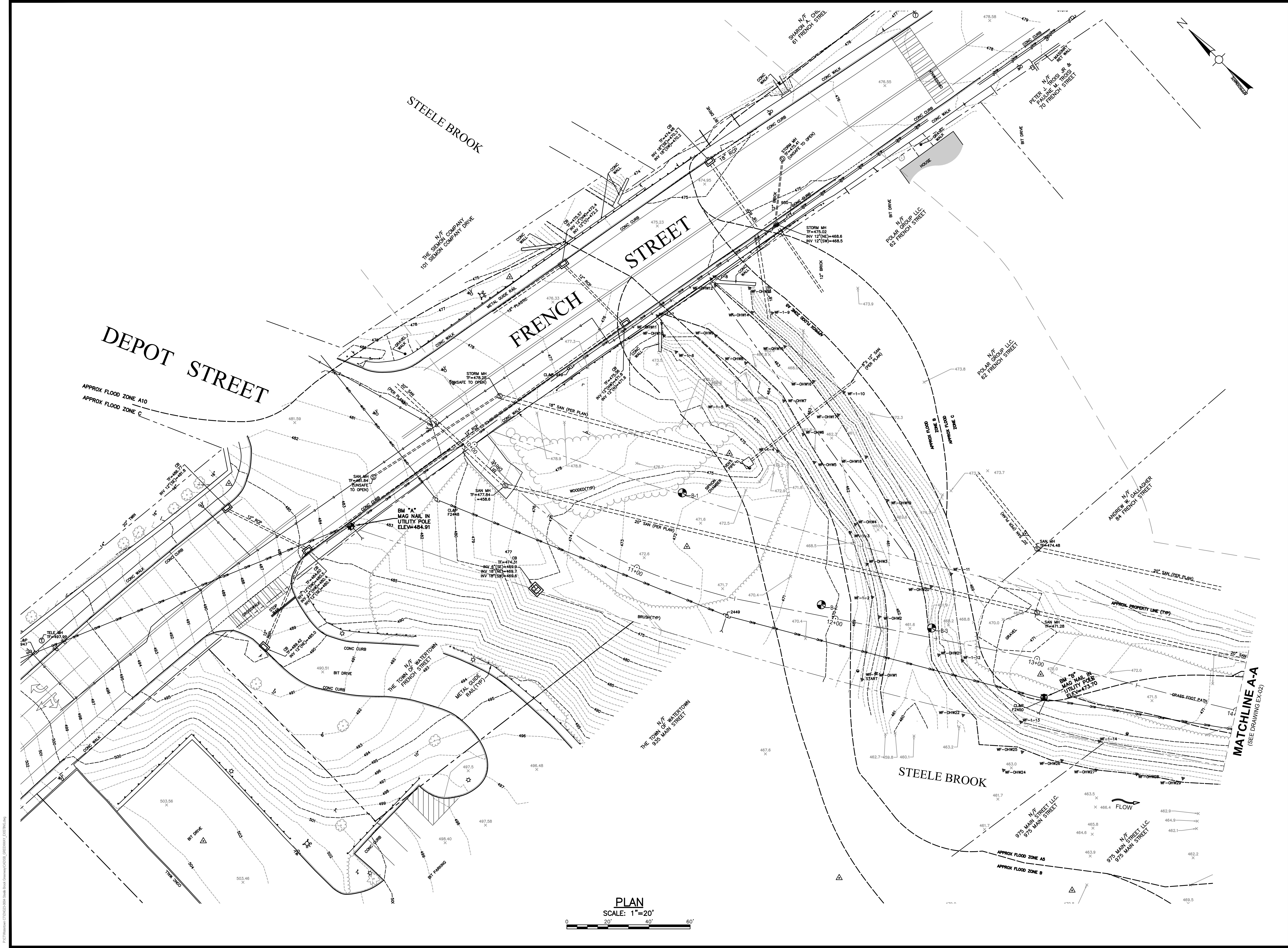
DET-02



LEGEND

①	1.25" HMA S0.25 (TRAFFIC LEVEL 1)
②	1.5" HMA S0.375 (TRAFFIC LEVEL 1)
③	6" PROCESSED AGGREGATE BASE
④	8" GRAVEL SUBBASE
⑤	COMPACTED SUBGRADE
⑥	4" TOPSOIL AND TURF ESTABLISHMENT LAWN
⑦	EXISTING ROADWAY
⑧	EROSION CONTROL MATTING





Project:
PROJECT NO. 153-125

STEELE BROOK
GREENWAY

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**EXISTING
CONDITIONS PLAN**

Sheet Number:

EX-01

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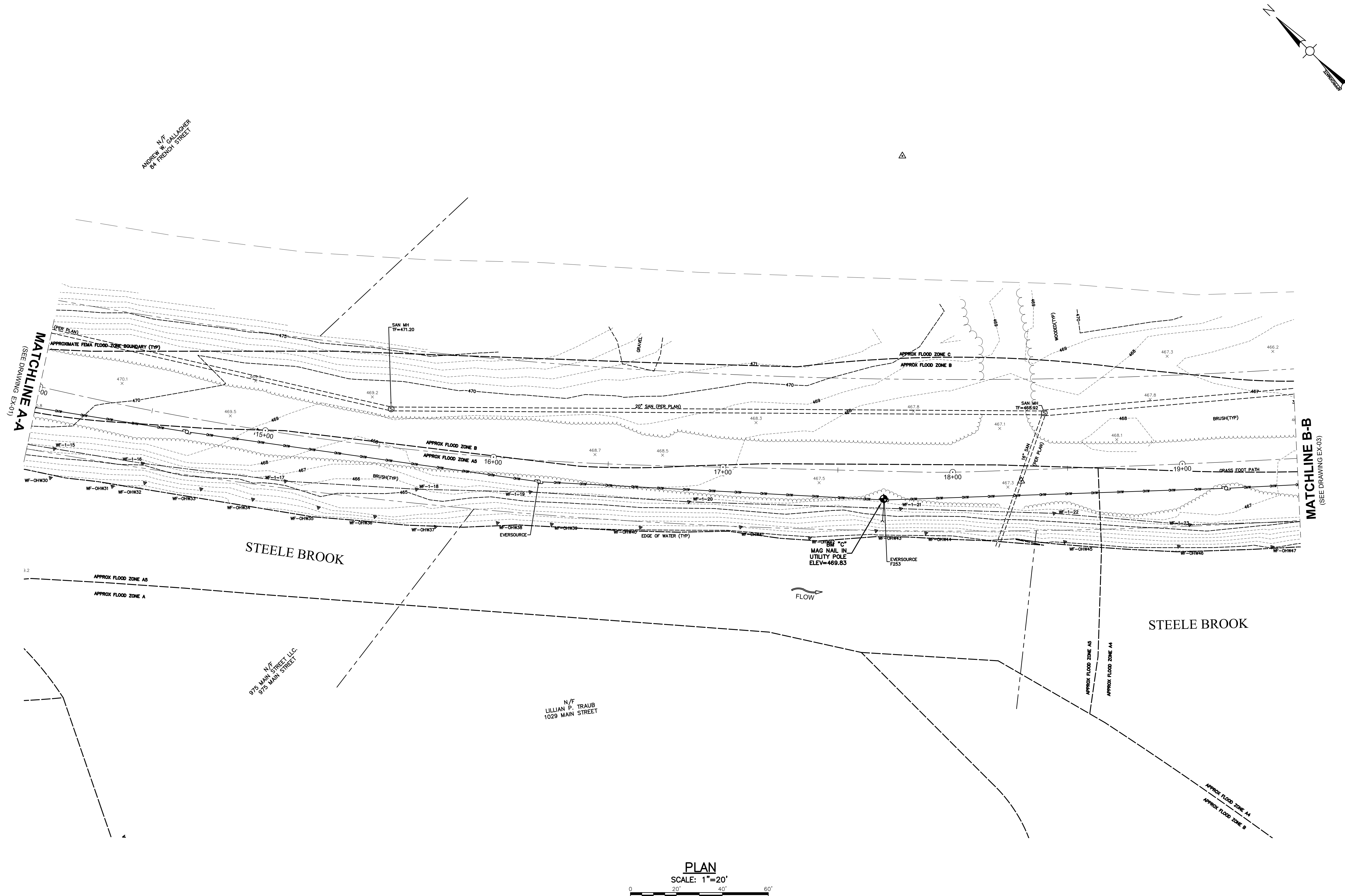
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EXISTING CONDITIONS PLAN

EX-02

Rev: 1.6 Date: 04/10/2019



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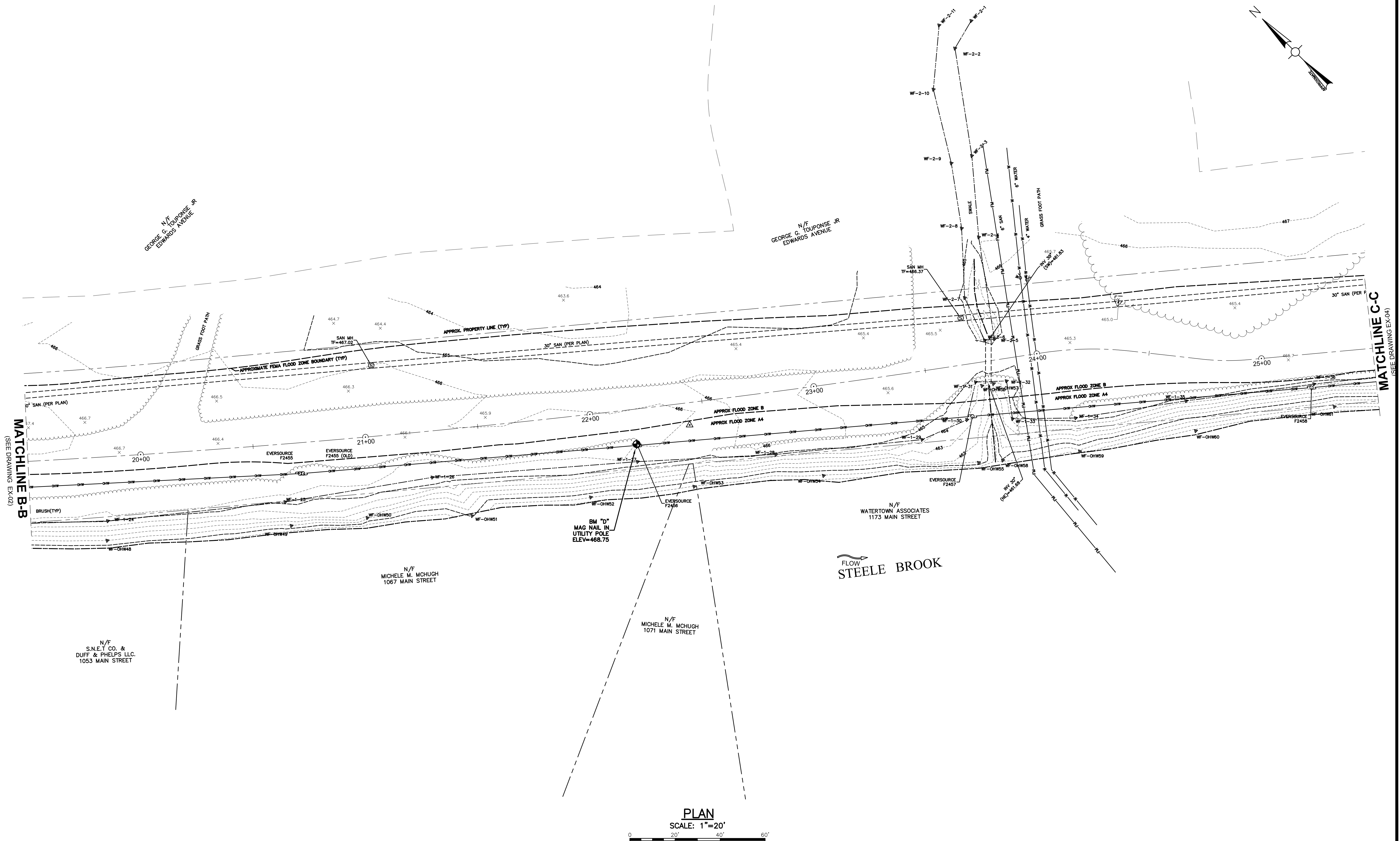
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EXISTING CONDITIONS PLAN

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EX-03



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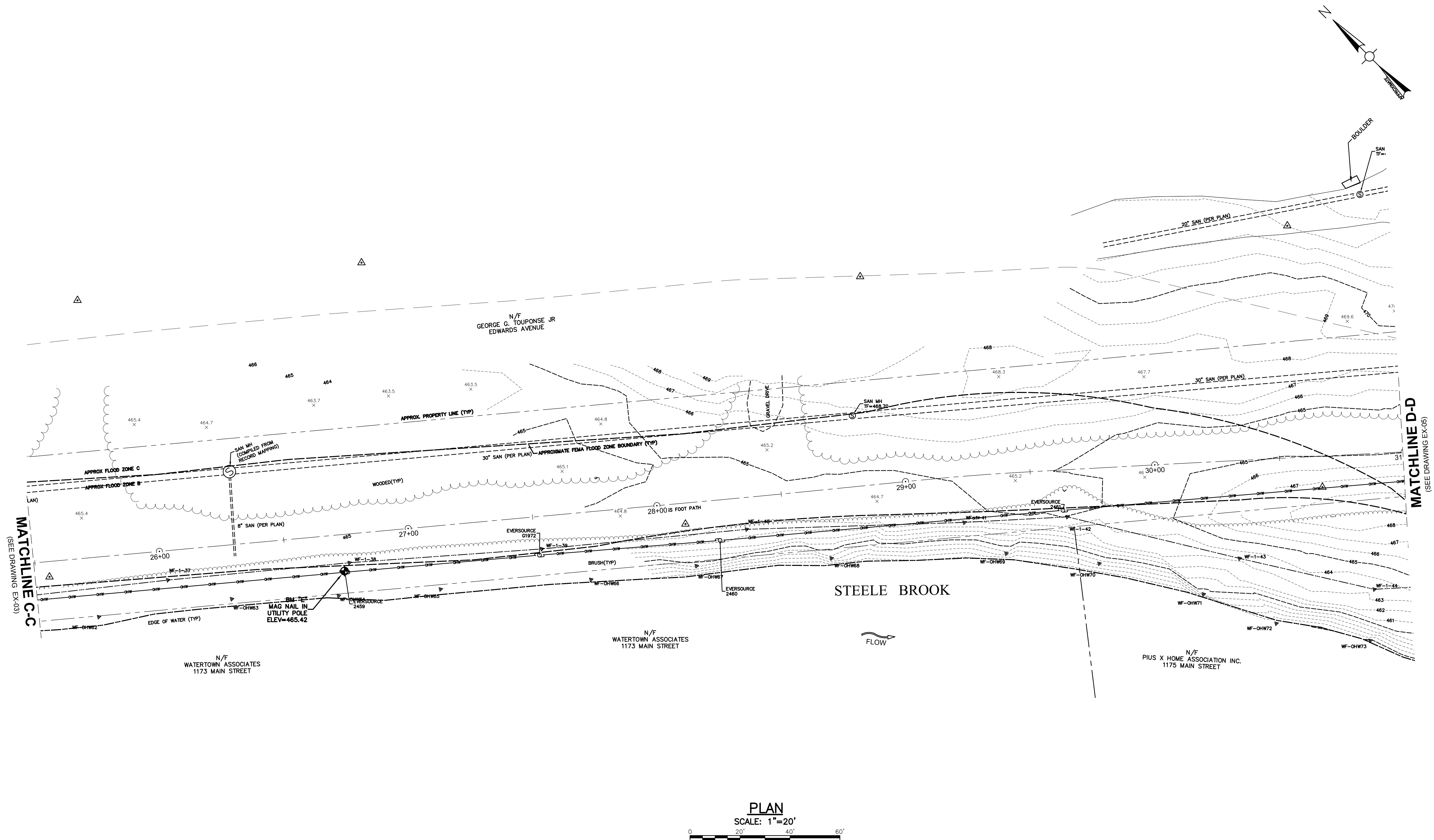
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Drawing Title:

EXISTING CONDITIONS PLAN

Sheet Number:

EX-04





BORING LOG B-1

BORING LOG B-3

BORING LOG B-2

BORING LOG B-4

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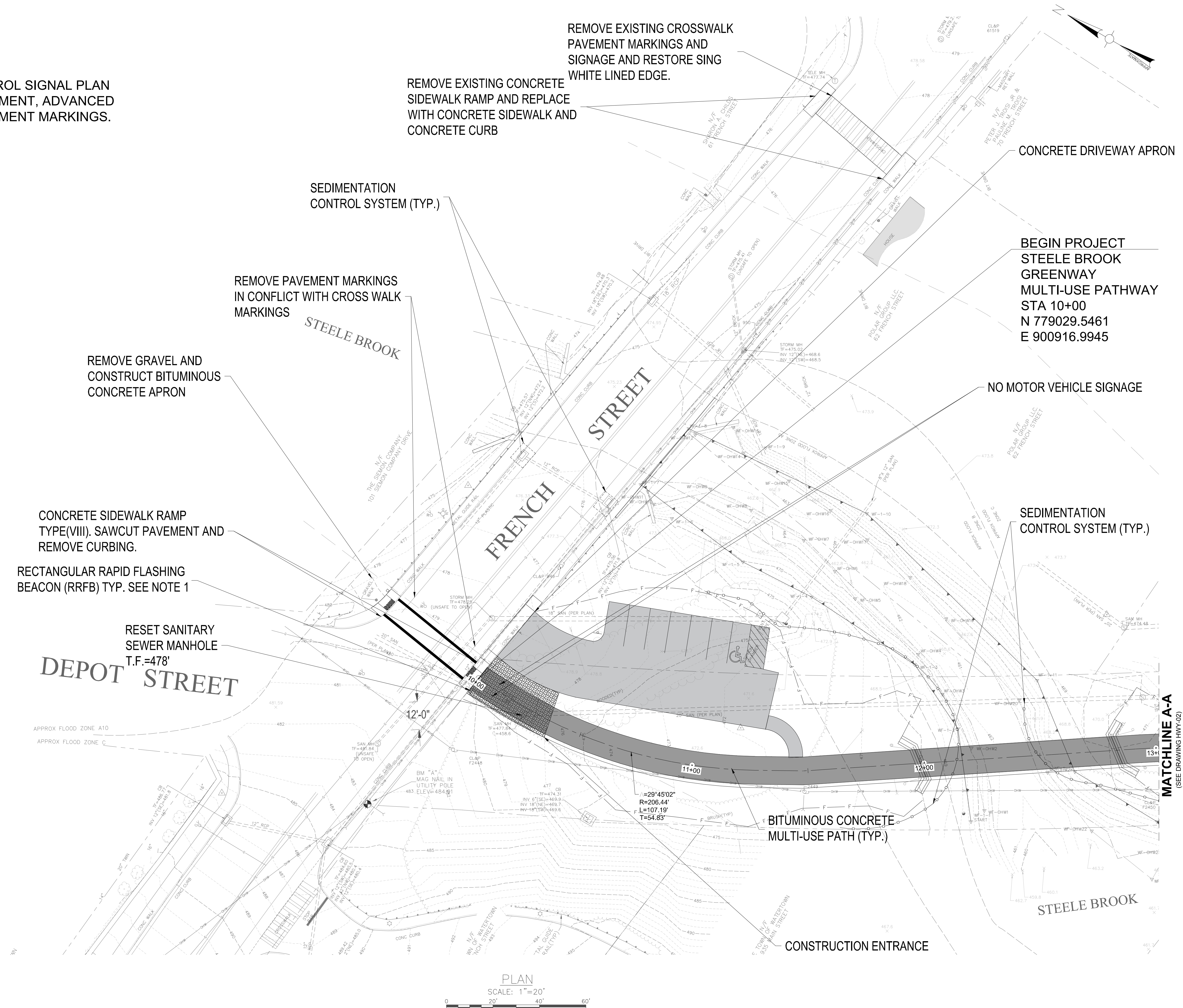
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Drawing Title:	
BORING LOGS	
Sheet Number:	
BOR-1	

NOTES:

1. SEE TRAFFIC CONTROL SIGNAL PLAN DETAILS FOR EQUIPMENT, ADVANCED SIGNAGE AND PAVEMENT MARKINGS.



Project: PROJECT NO. 153-125



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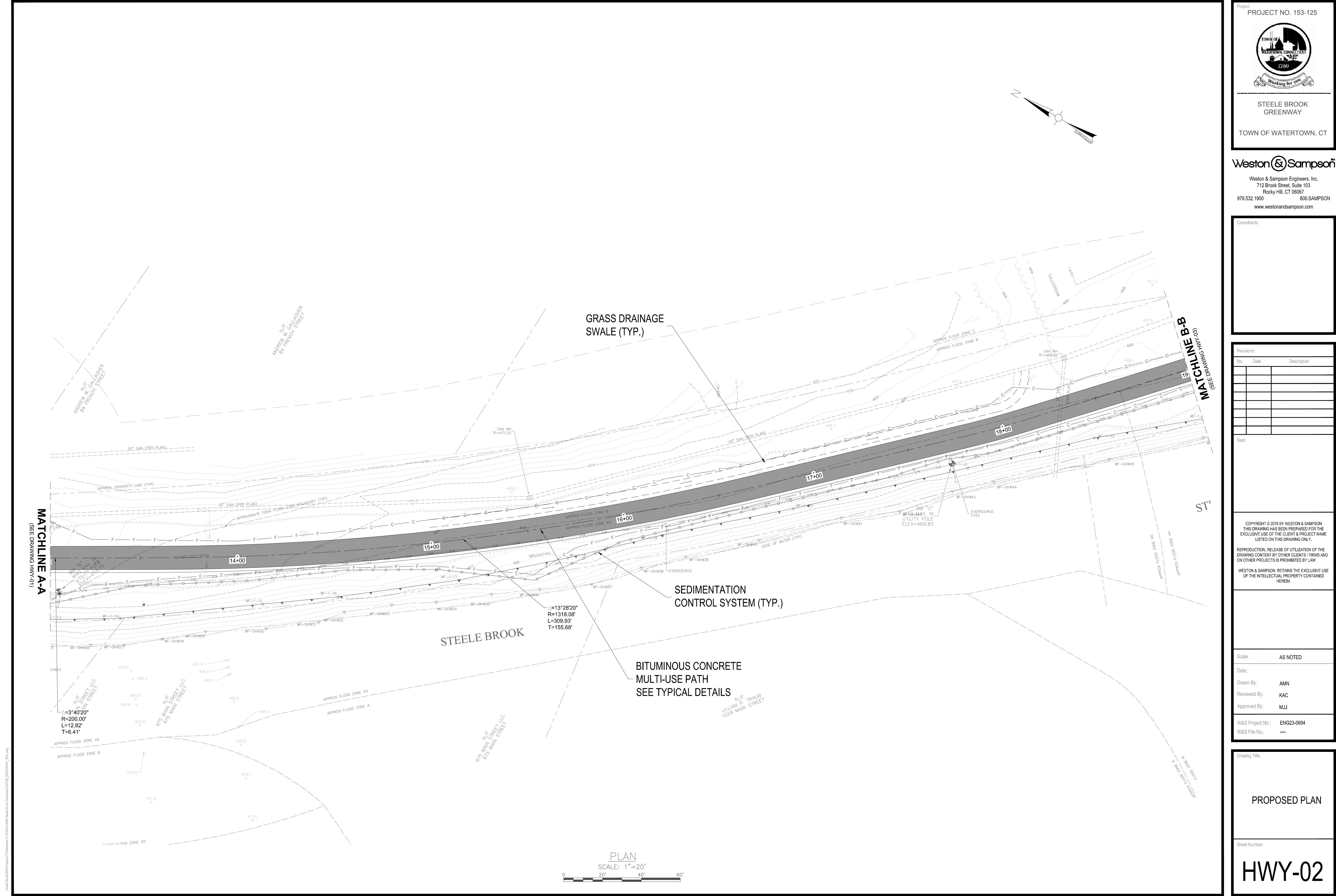
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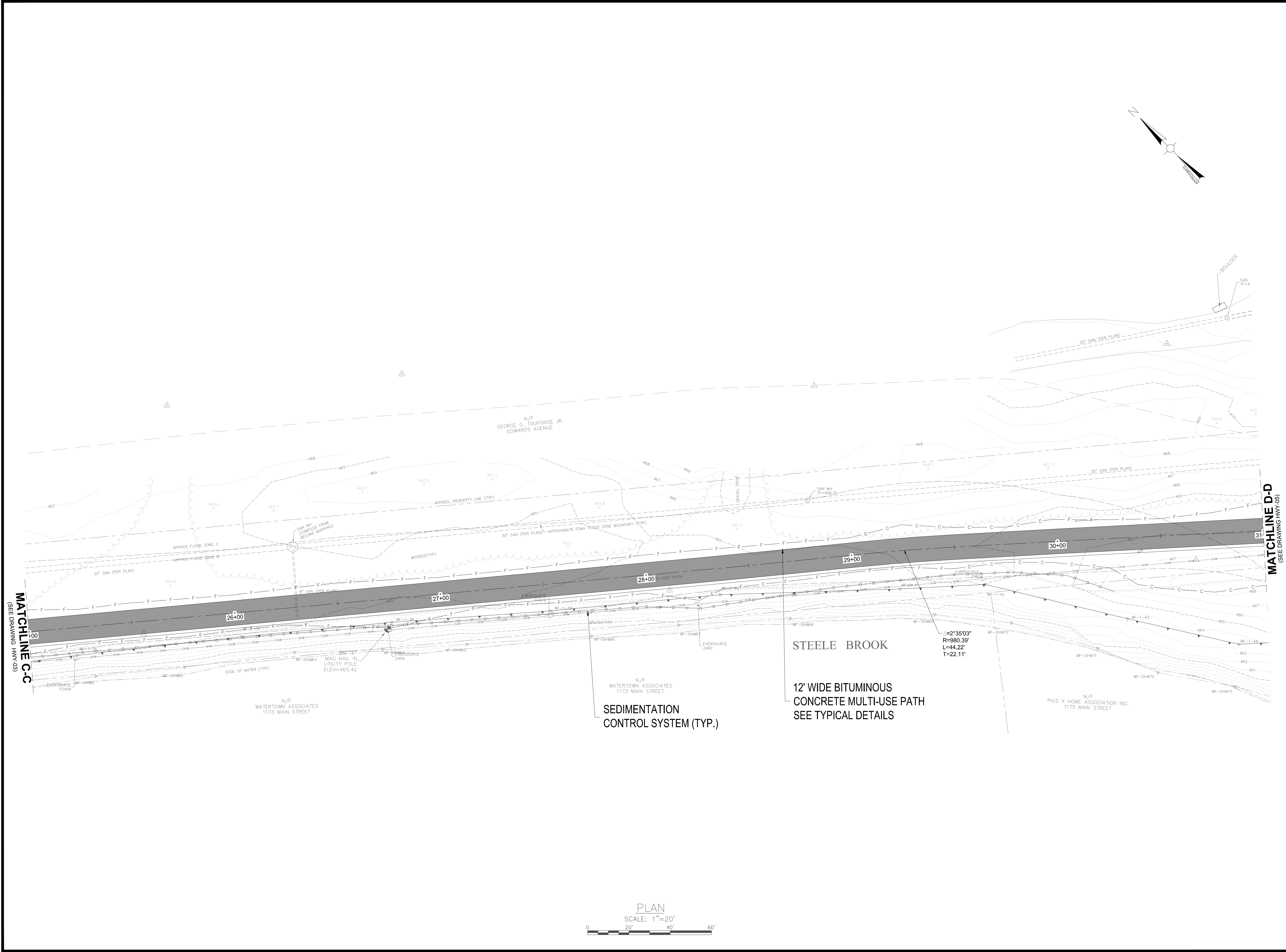
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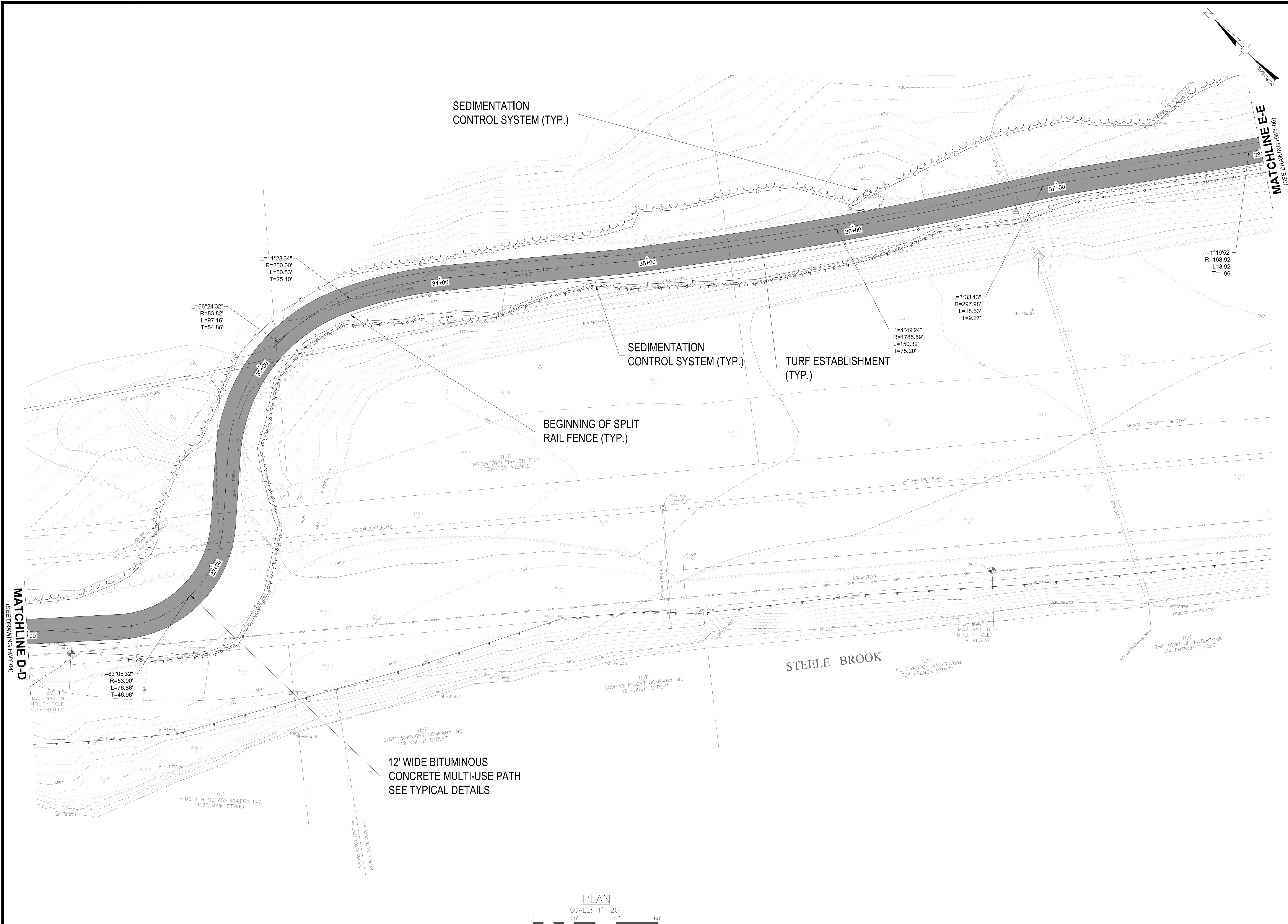
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PROJECT NO. 153-125



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GREENWAY PROFILE STA. 10+00 TO 15+50	
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PRO-01	

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EXISTING GRADE	ALONG
CENTERLINE	

PROPOSED GRADE

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

PROJECT NO. 153-125

STEEL BROOK
GREENWAY

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Y&S File No.: ----

Drawing Title:

GREENWAY
PROFILE
STA. 21+00 TO
26+50

Sheet Number:

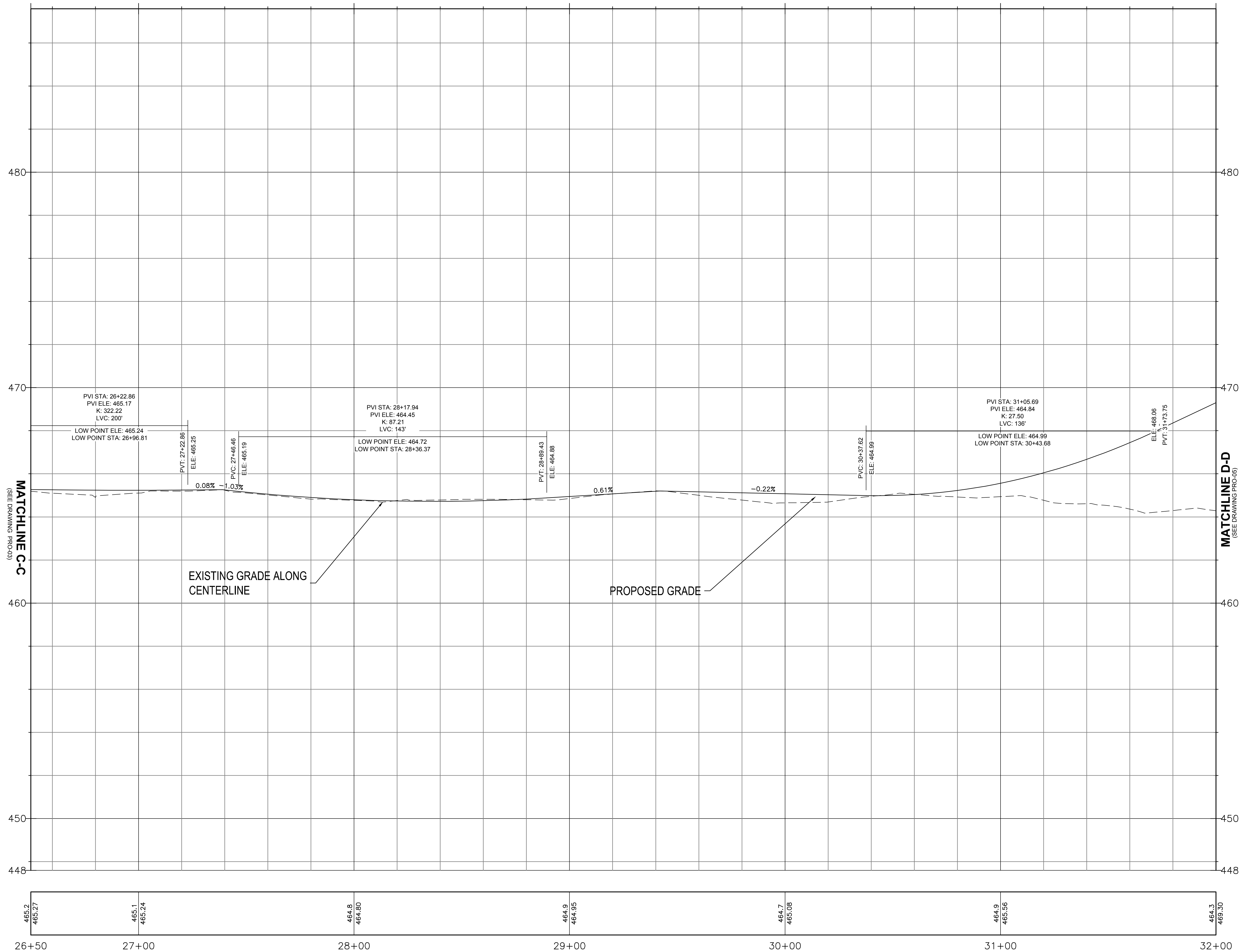
PRO-03

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Rev: 1.6 Date: 04/10/2019

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

Project: PROJECT NO. 153-125



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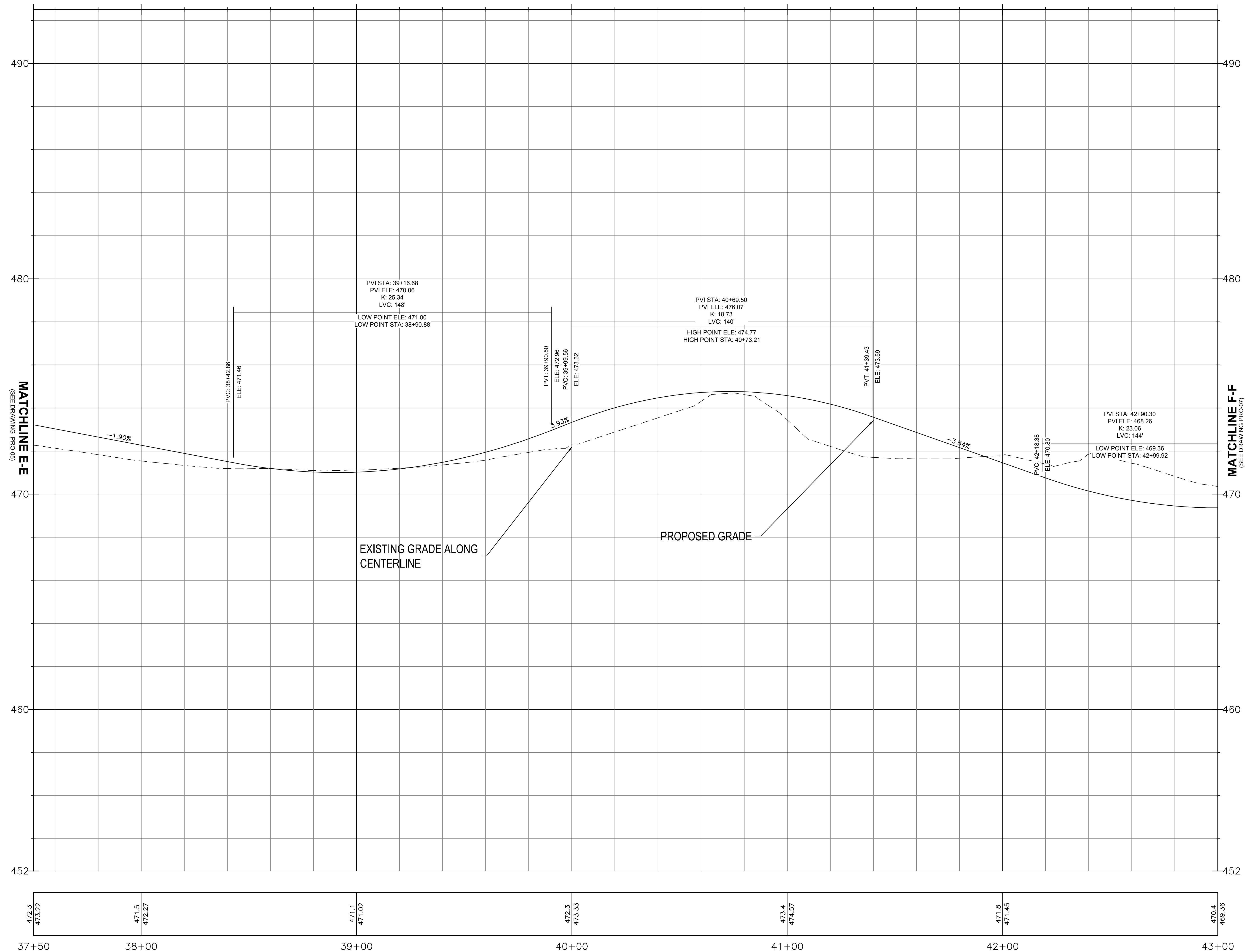
GREENWAY
PROFILE
STA. 26+50 TO
32+00

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PRO-04



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CENTERLINE TRAIL PROFILE
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PROFILE
STA. 38+80 TO
44+50

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PRO-06

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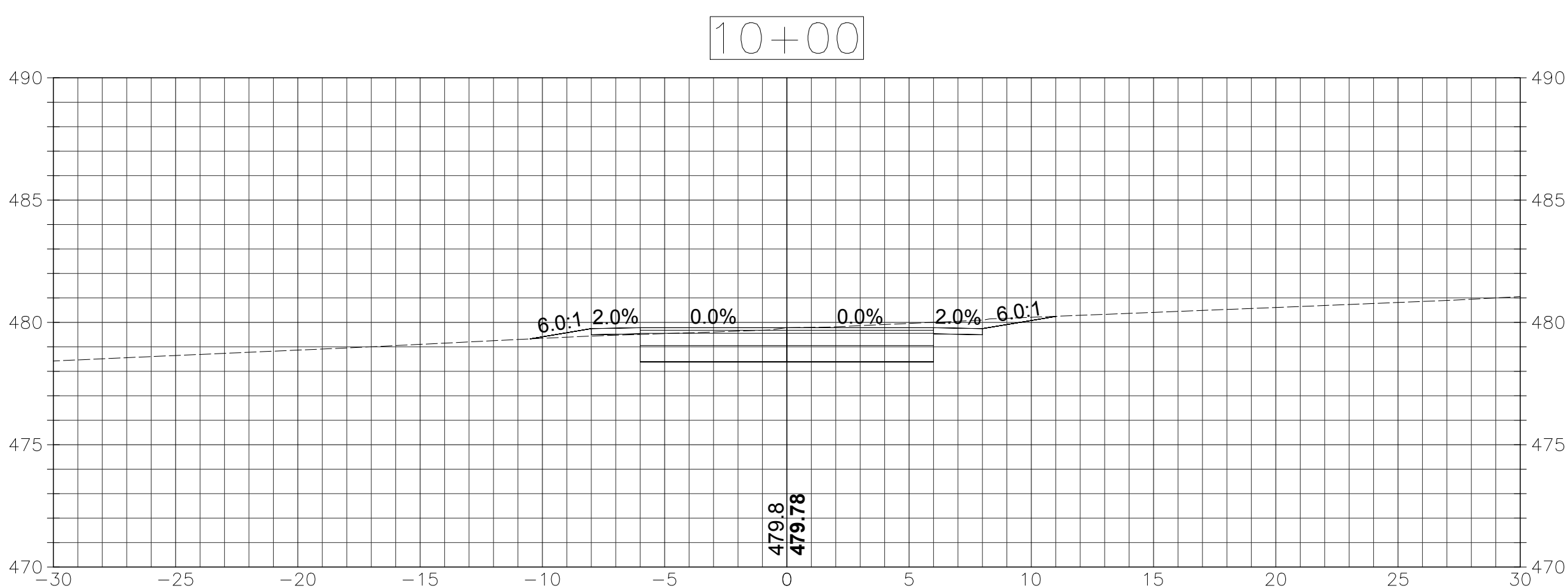
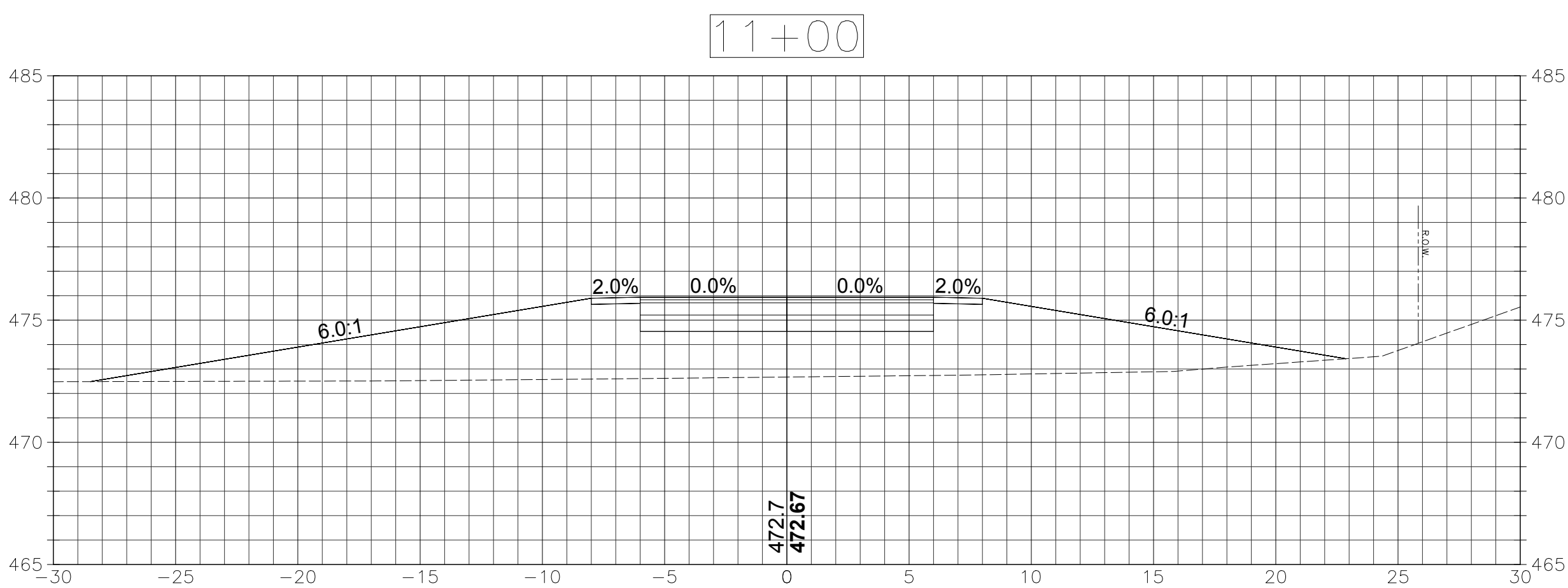
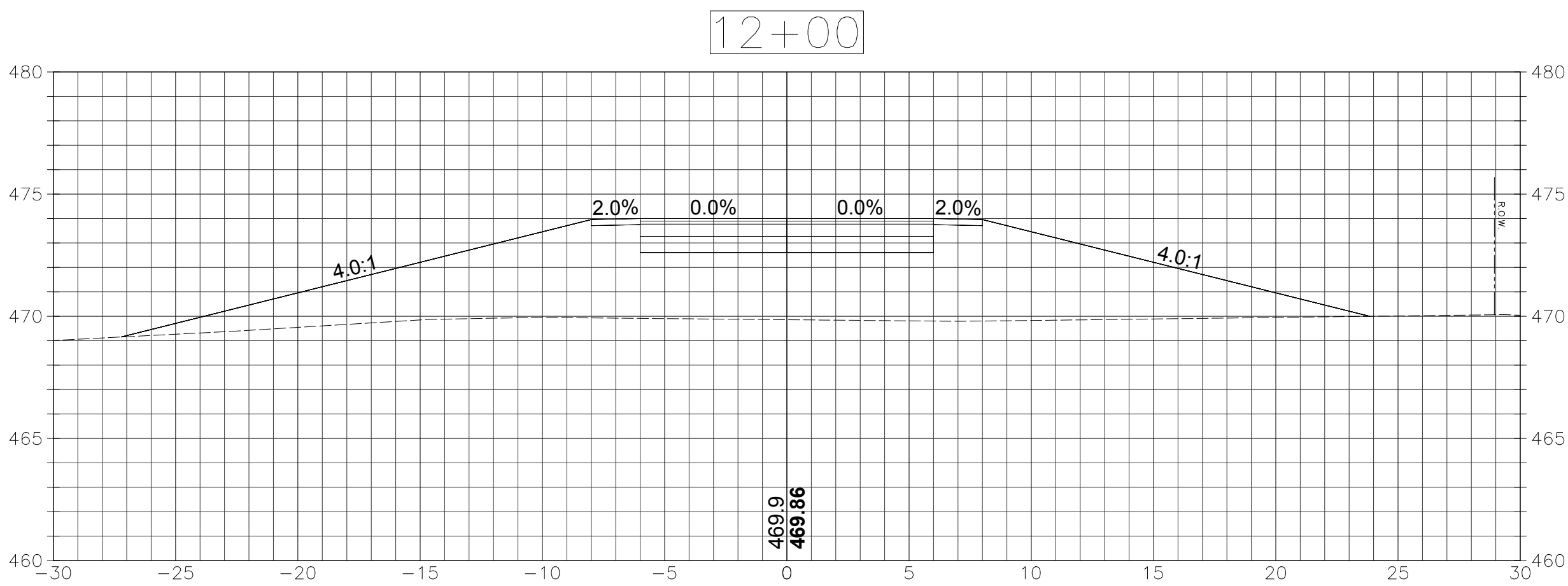
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SECTIONS

SCALE: 1"=5'

Project: PROJECT NO. 153-125



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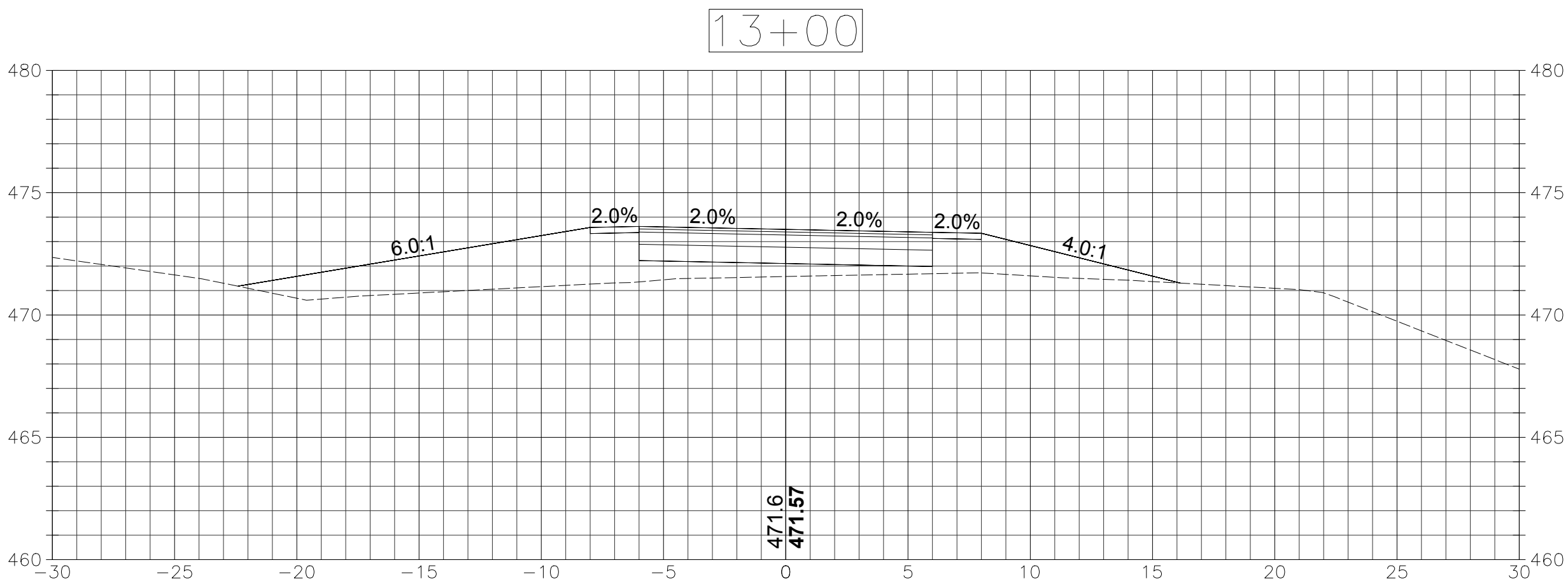
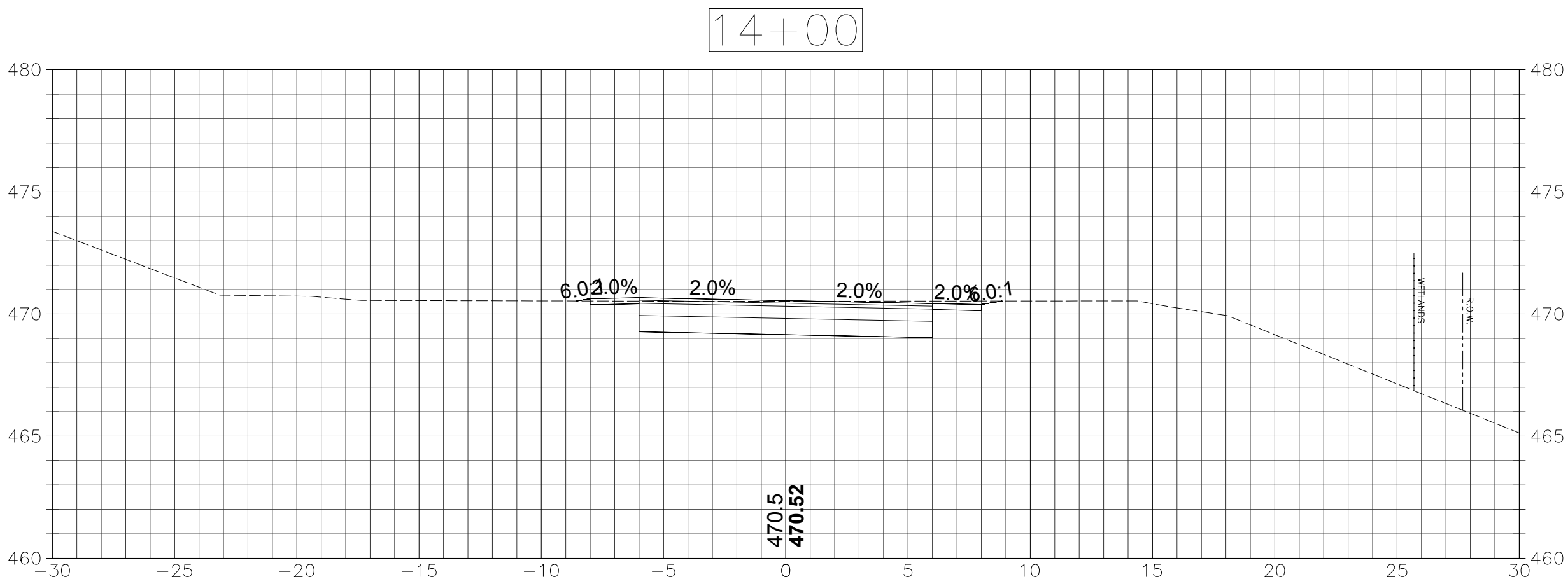
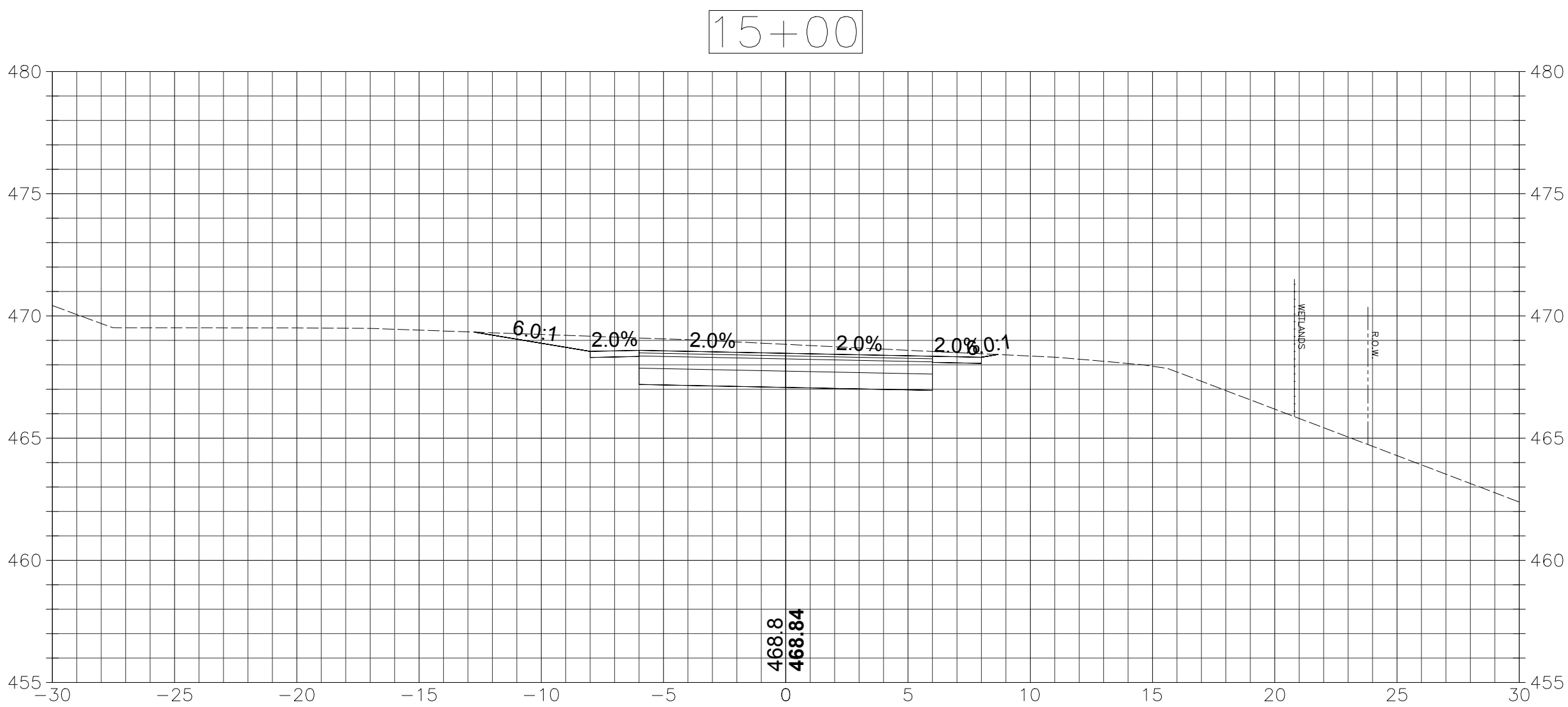
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CRITICAL CROSS
SECTIONS

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XSC-1

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SECTIONS
SCALE: 1"=5'

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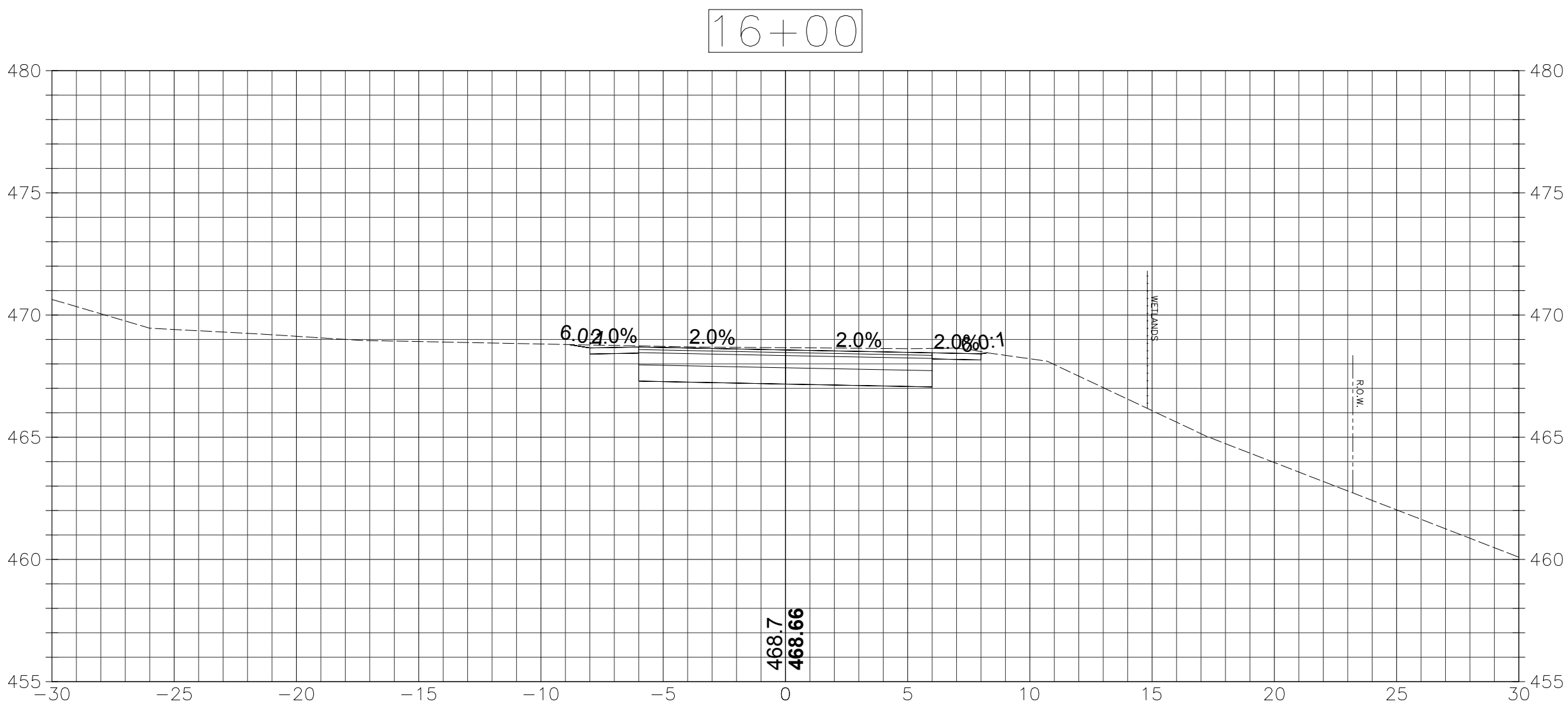
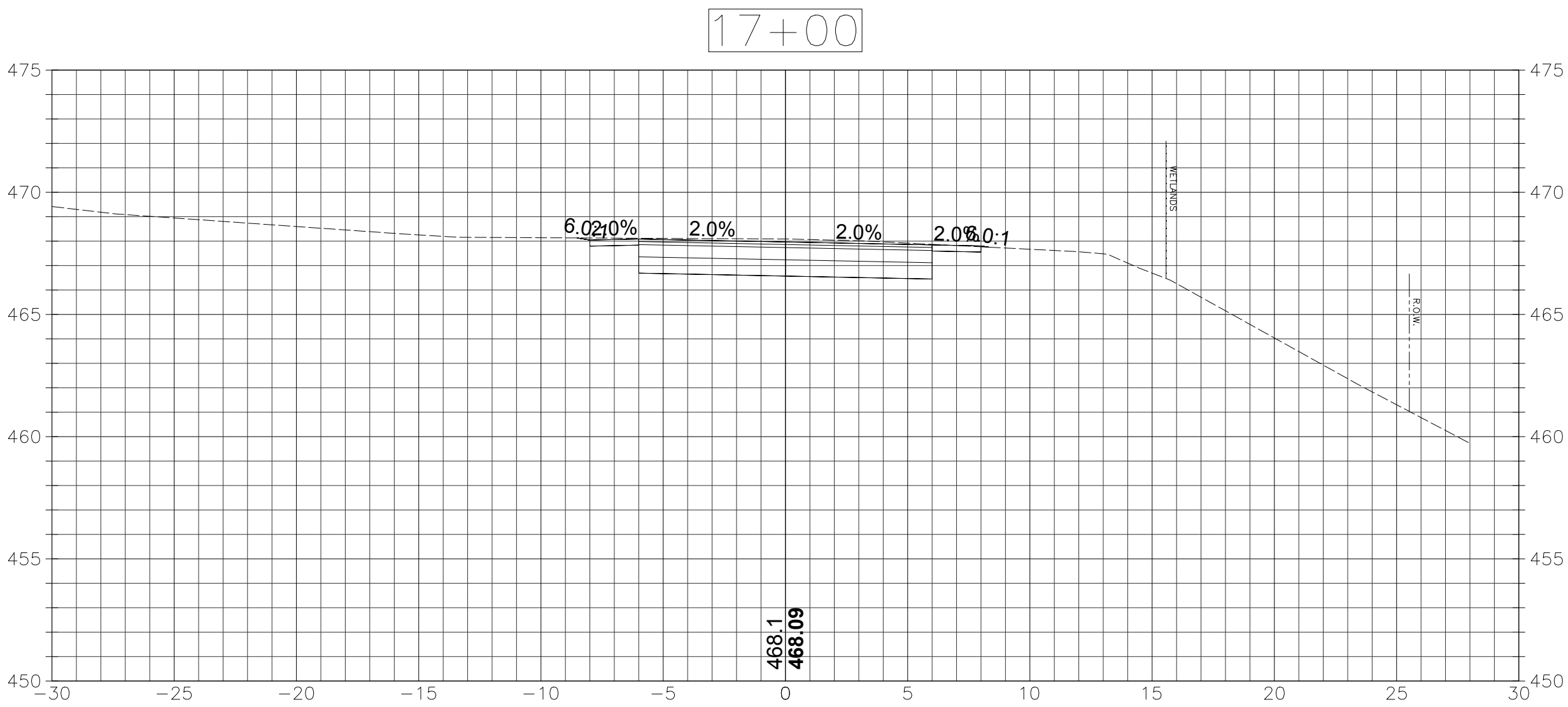
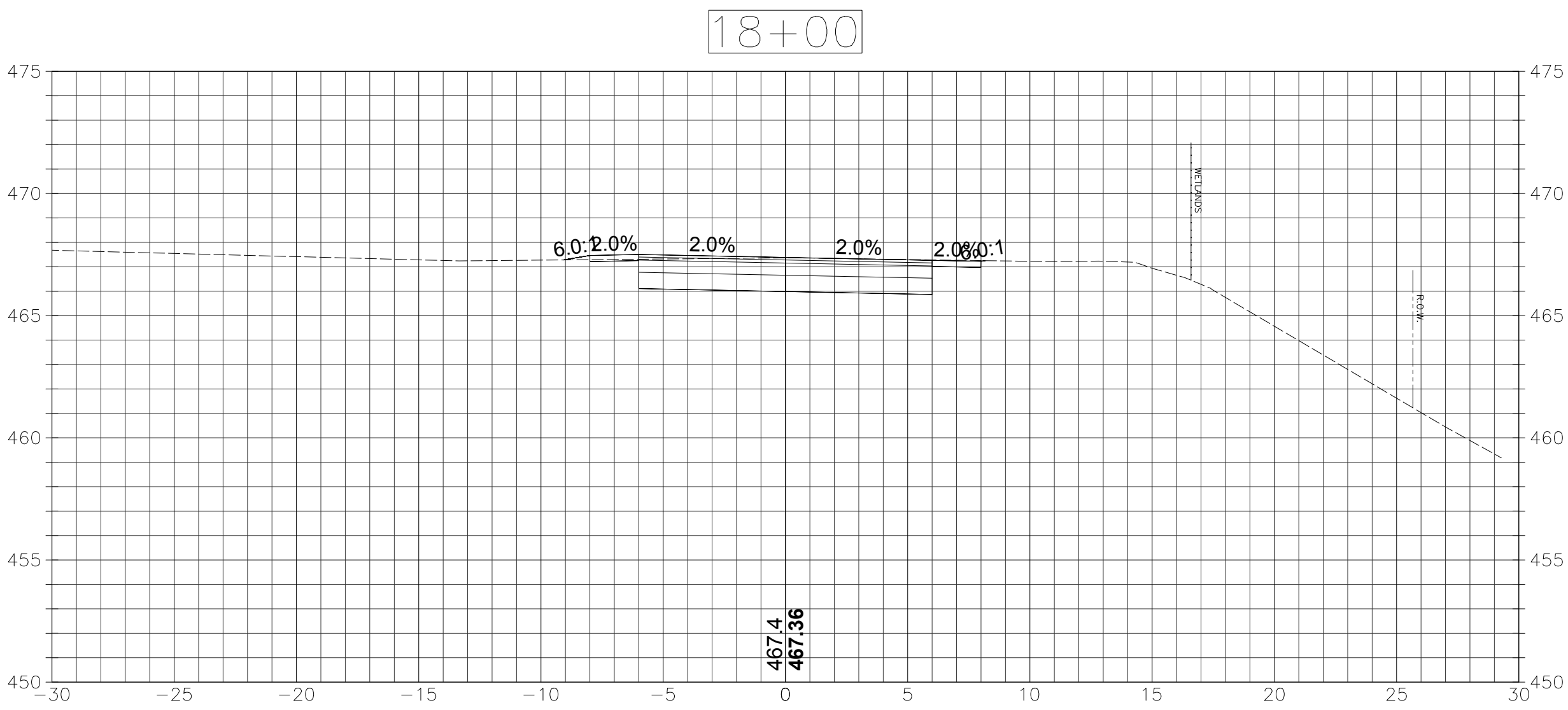
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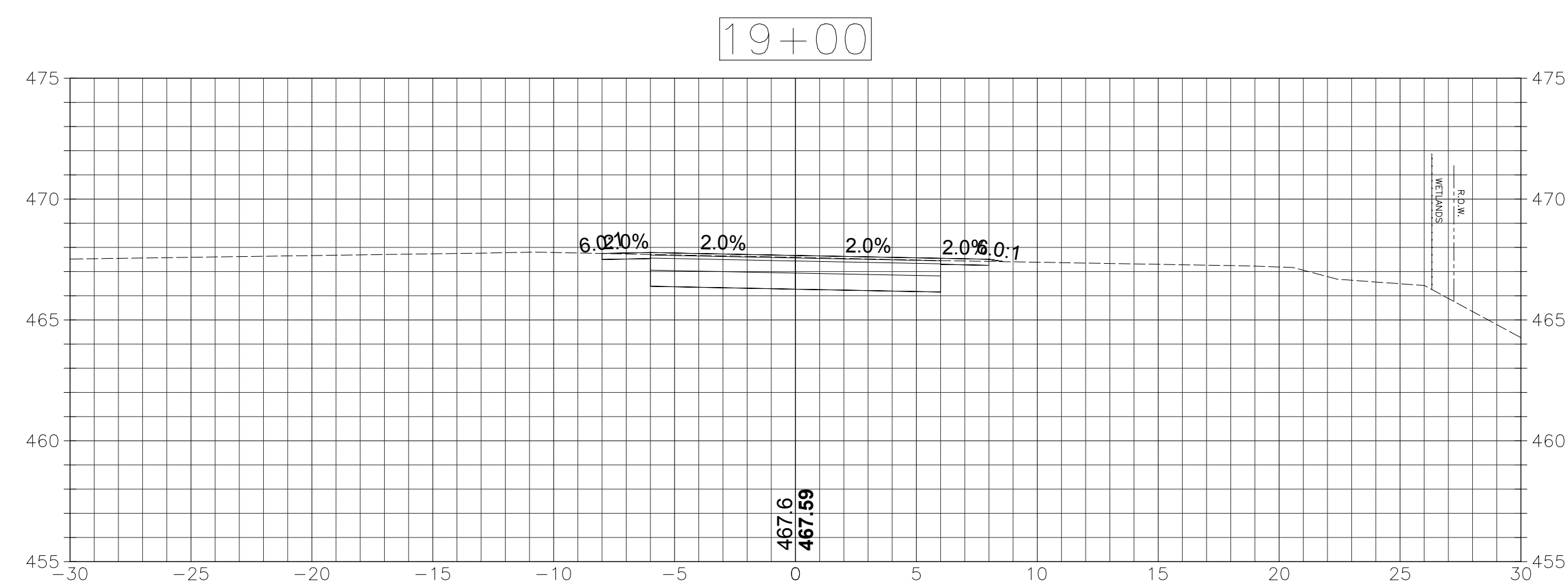
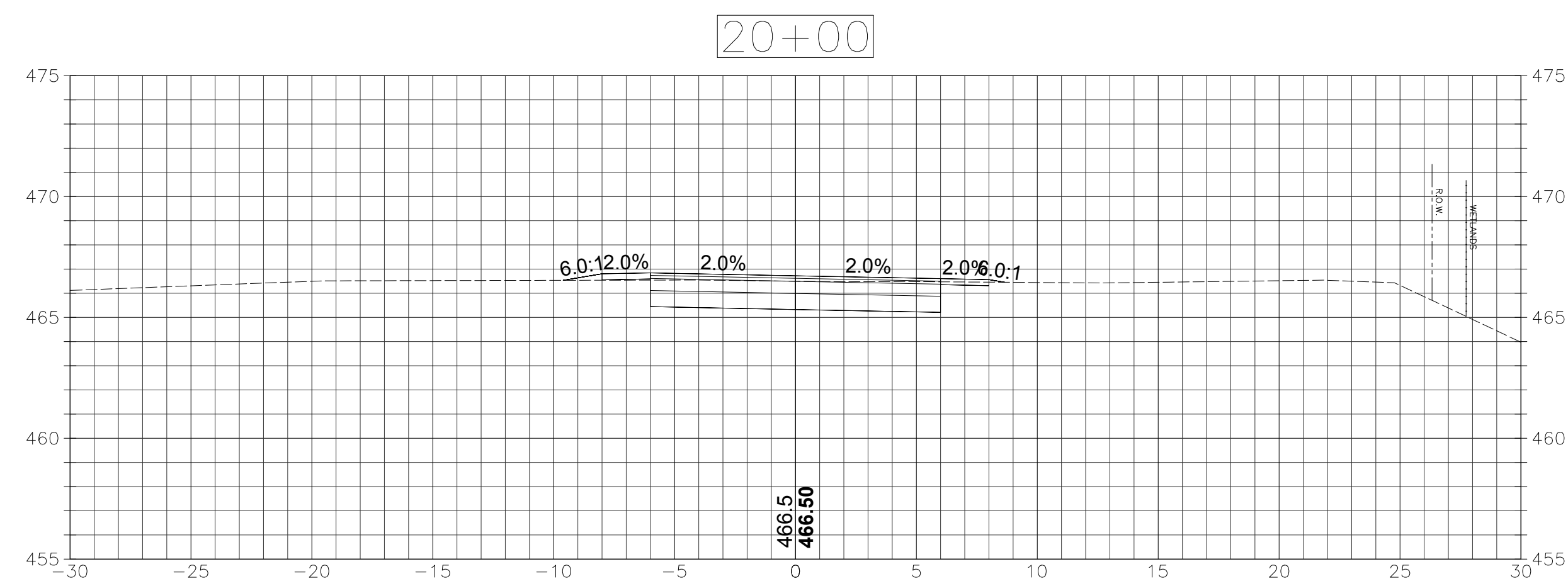
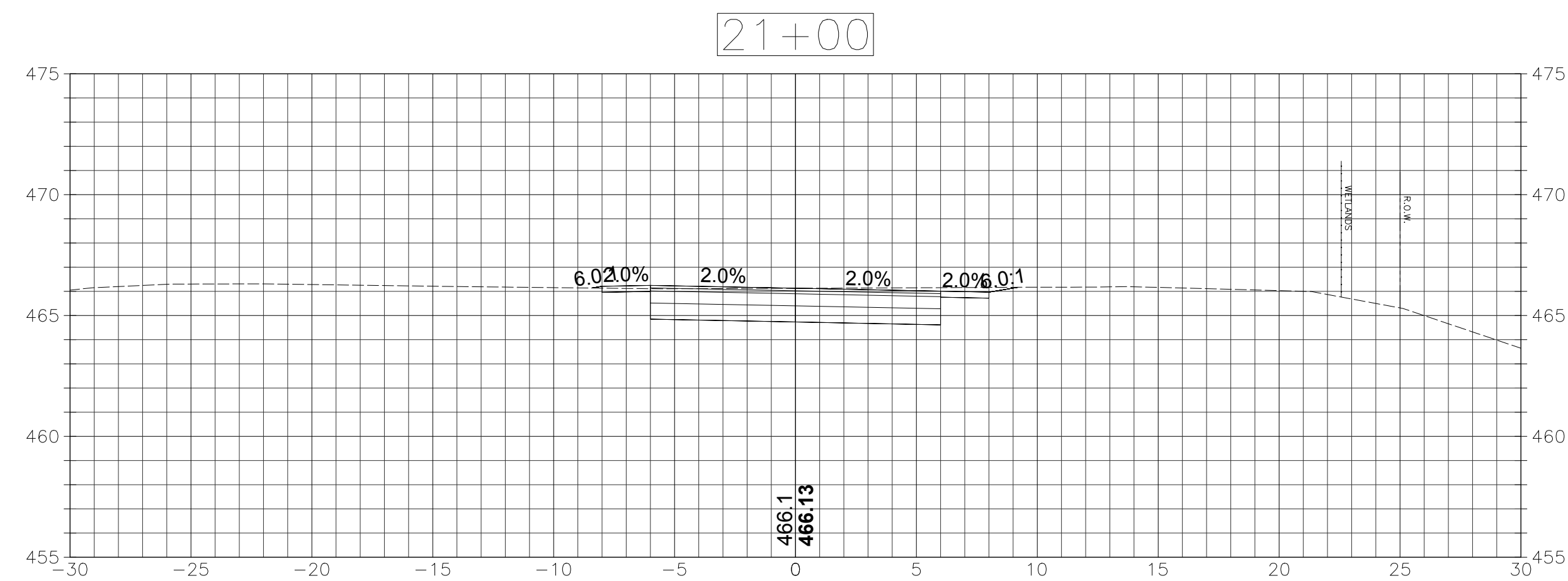
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SECTIONS

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SECTIONS

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

P:\CT\Wainman\CTIENG23-0694 Sheet4 Brook Greenway\CAD\SB_GREENWAY_MDL_XSC.dwg

Rev: 16 Date: 04/10/2019

Project:
PROJECT NO. 153-125STEEL BROOK
GREENWAY

TOWN OF WATERTOWN, CT

Weston & Sampson^{au}

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Consultants:

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Drawn By: AMN

Reviewed By:

Approved By: MJJ

W&S Project No.: ENG23-0694

W&S File No.: -----

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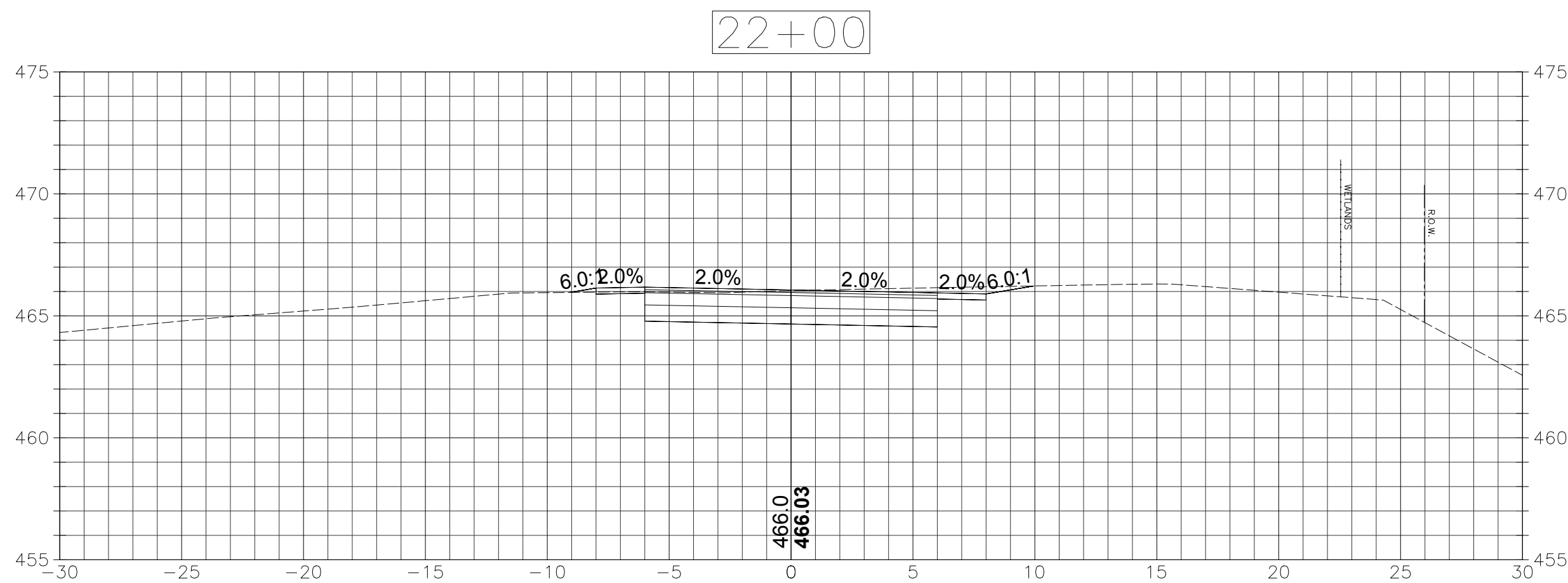
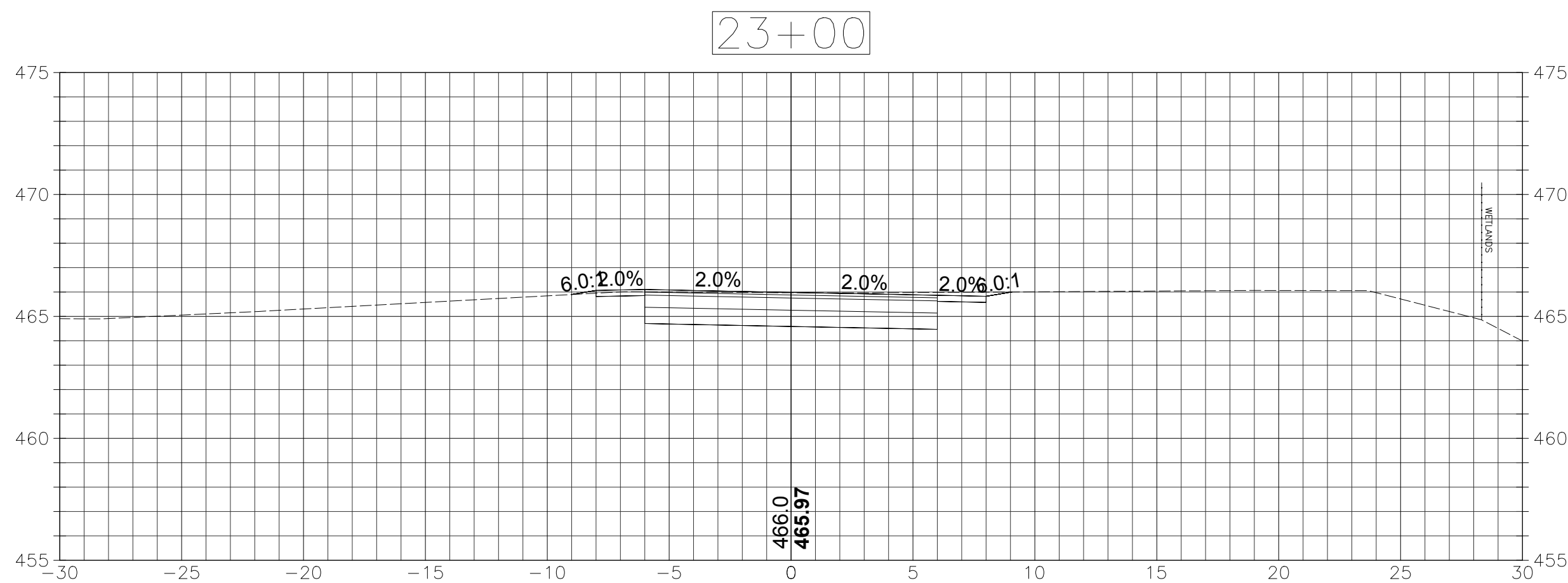
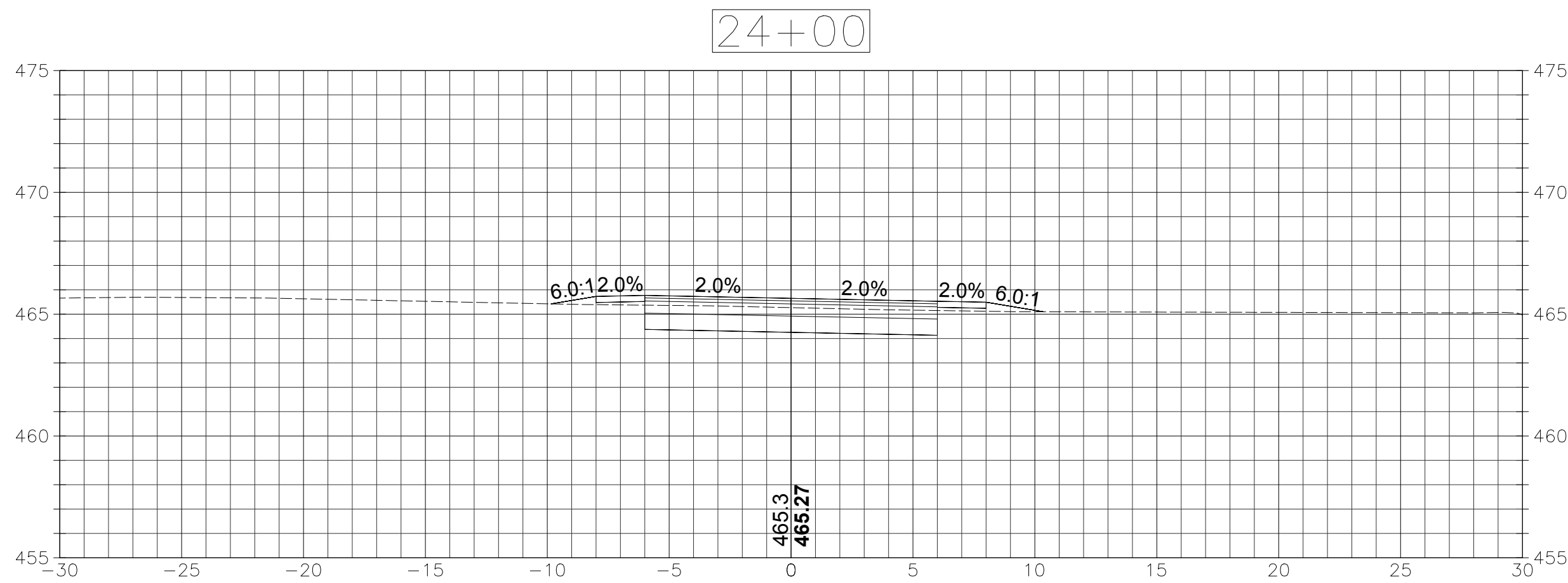
CRITICAL CROSS SECTIONS

Sheet Number:

XSC-4

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SECTIONS

SCALE: 1"=5'

Project: PROJECT NO. 153-125



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W&S File No.: ---

Drawing Title:

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SECTIONS

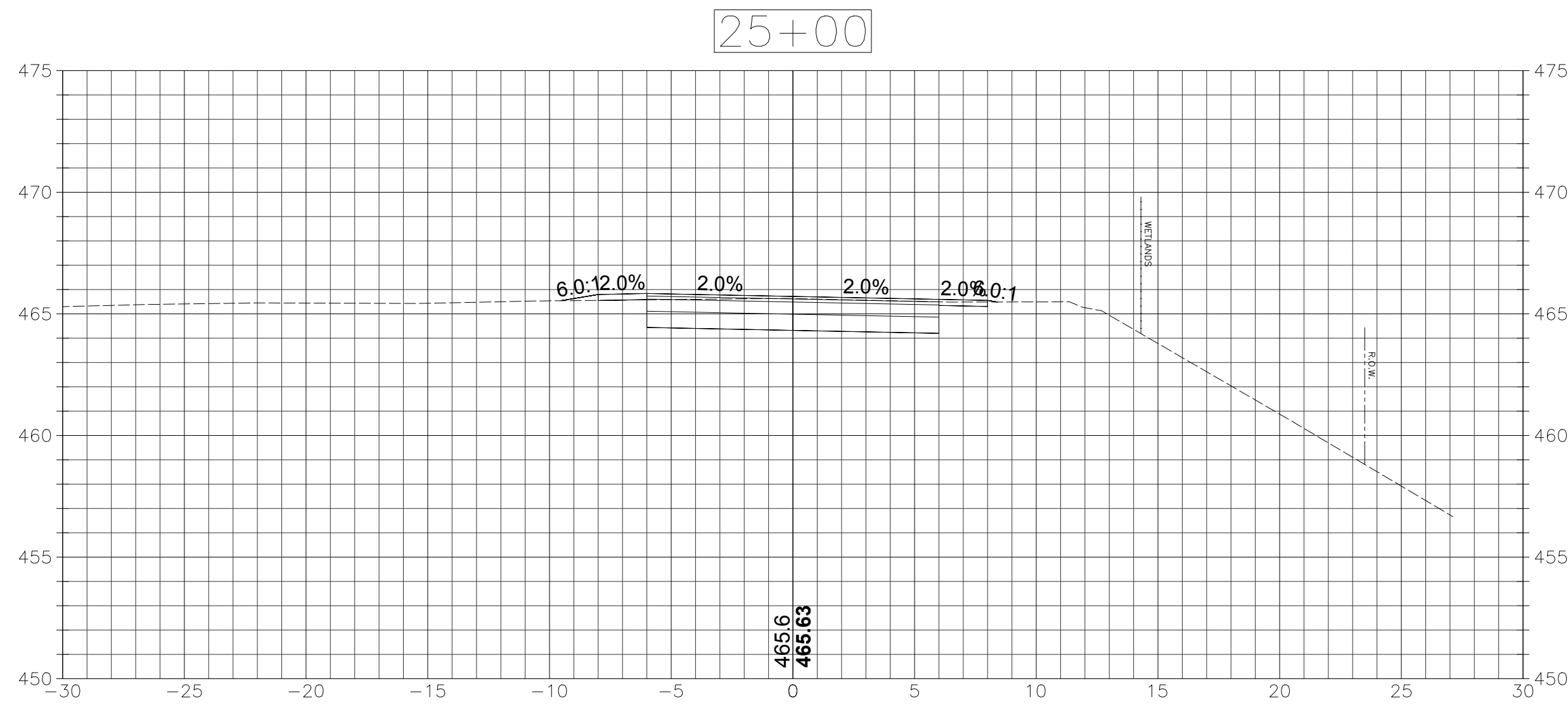
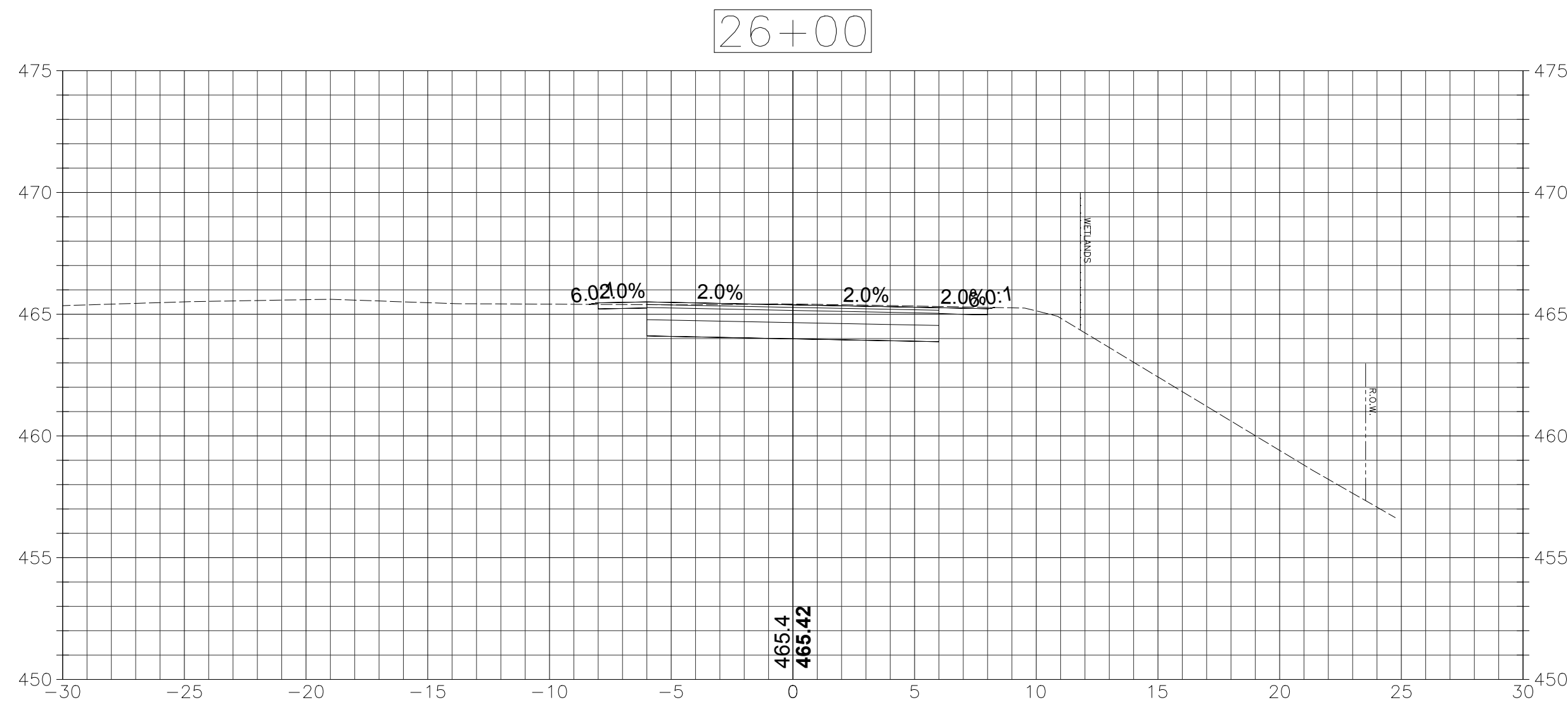
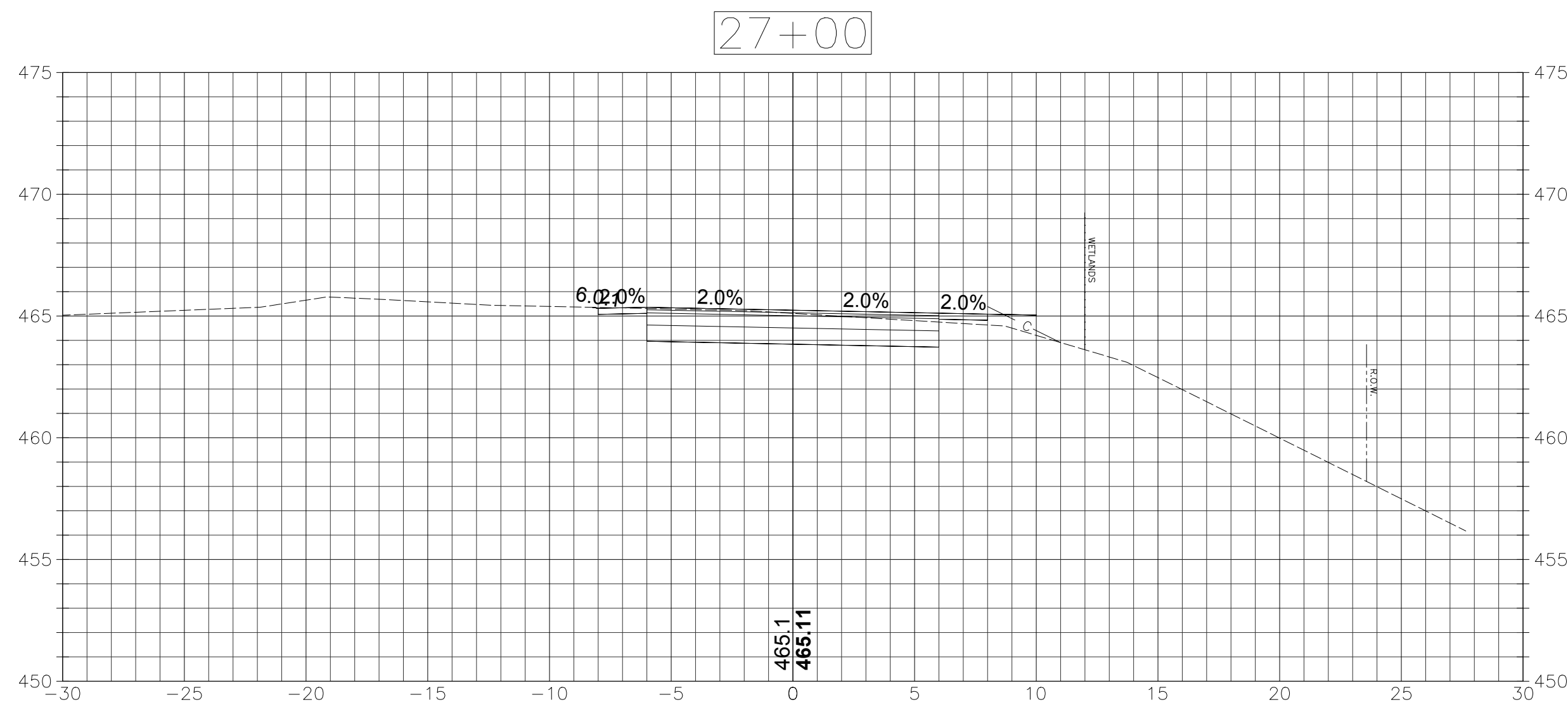
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SECTIONS

SCALE: 1"=5'

Project: PROJECT NO. 153-125



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W&S File No.: ---

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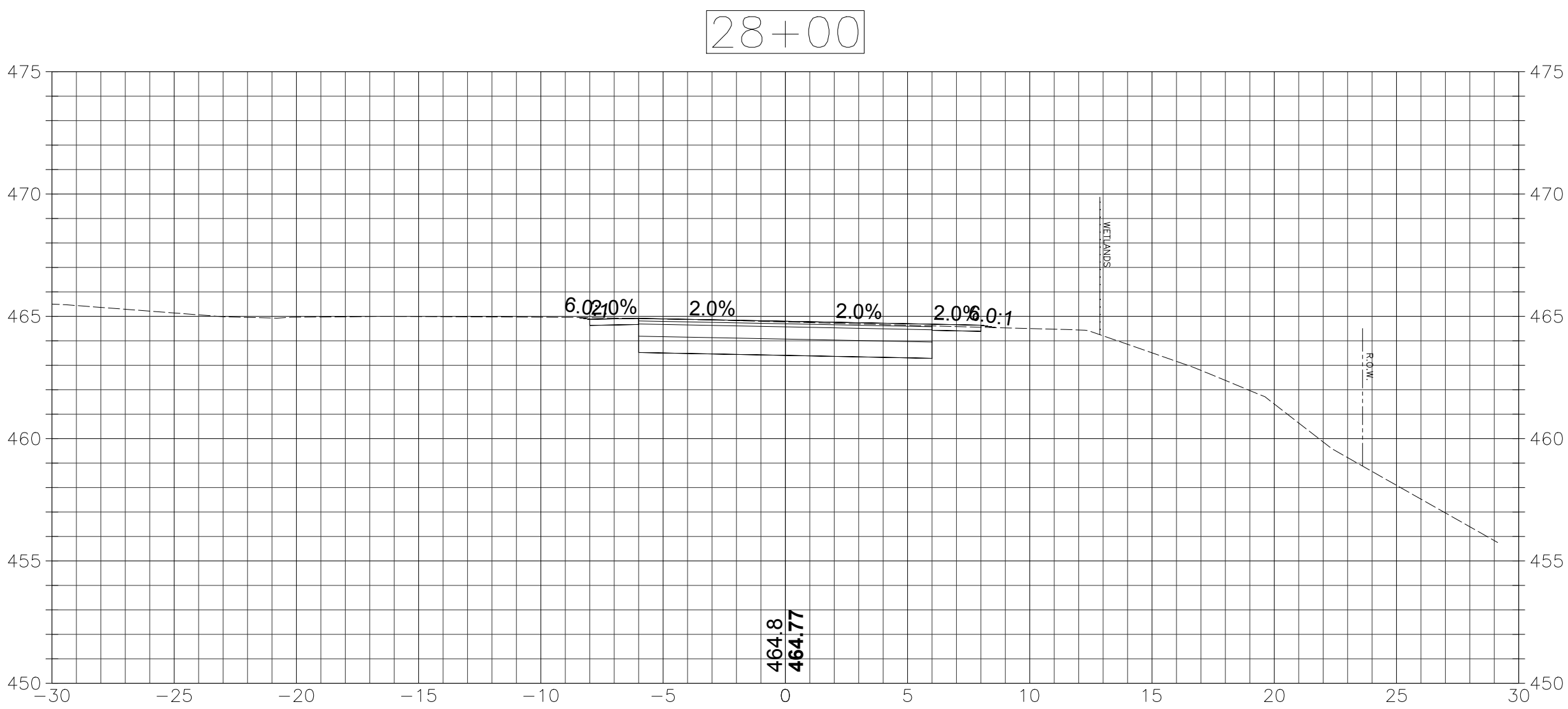
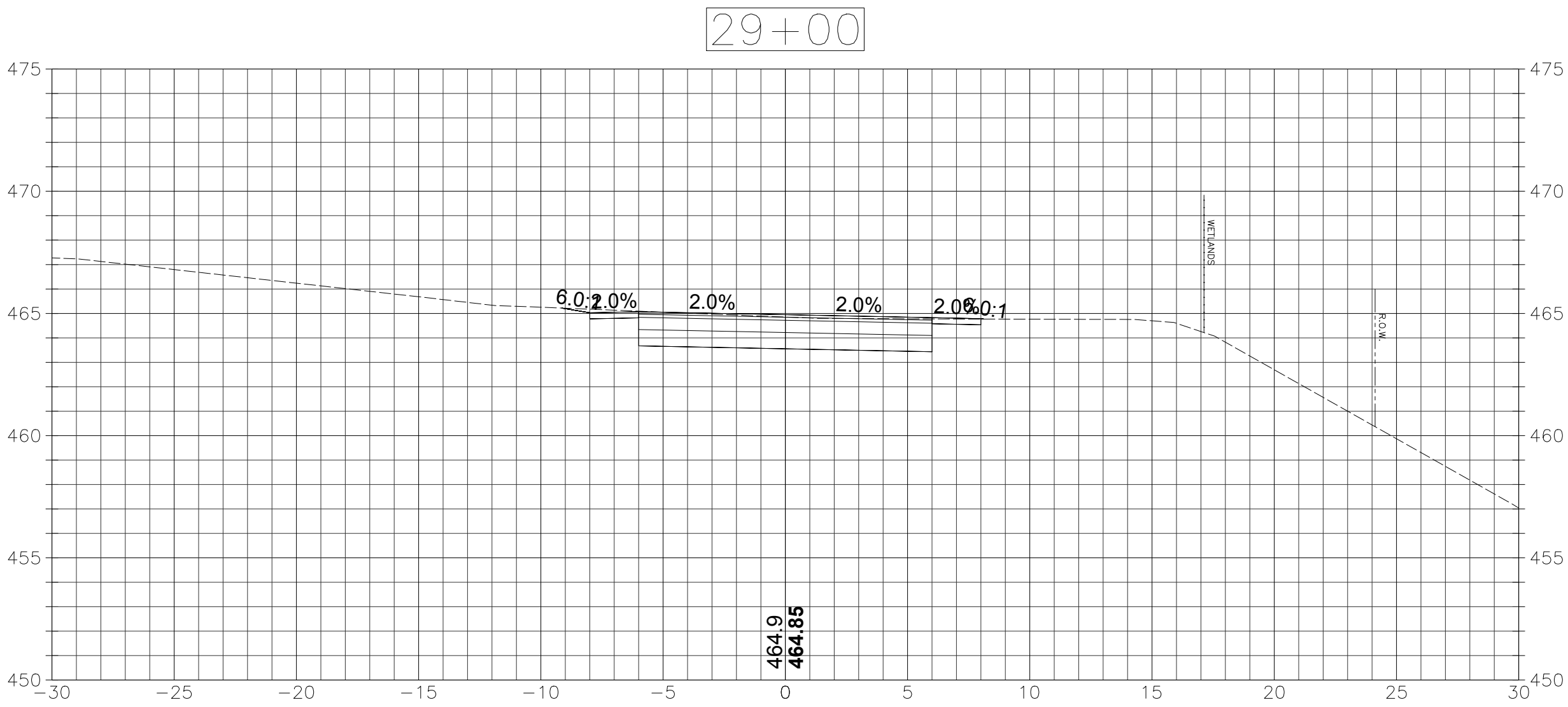
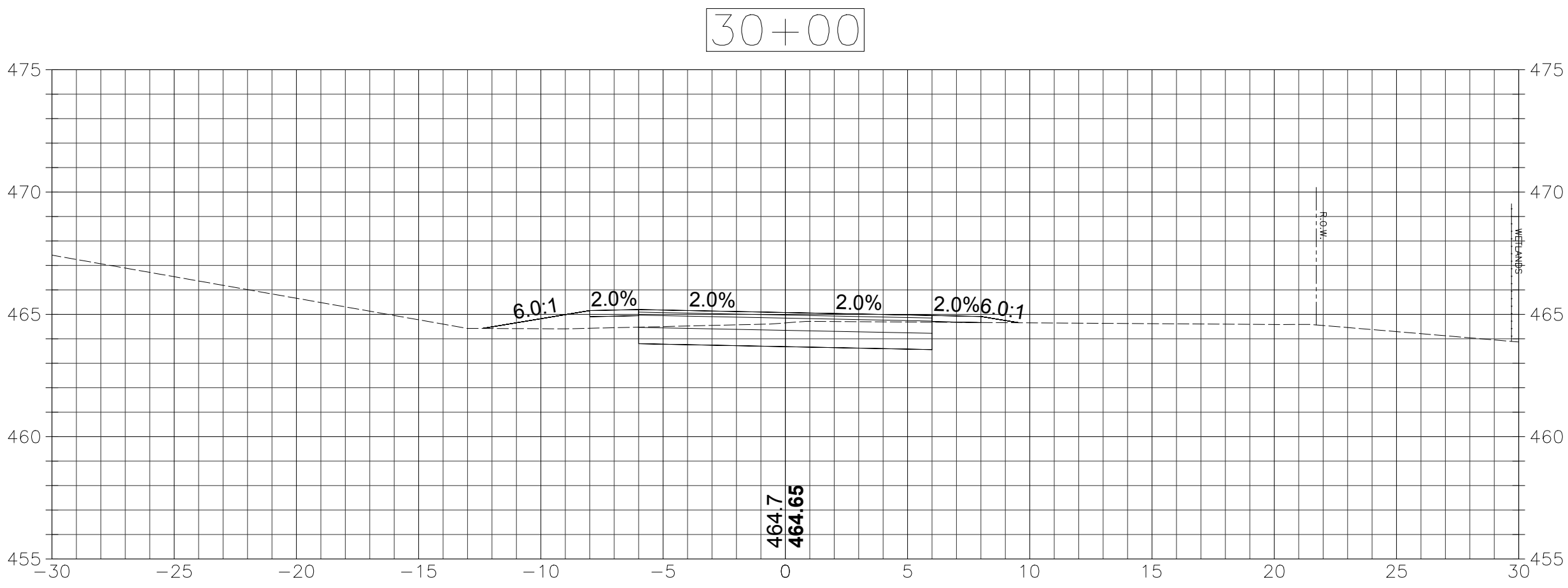
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SECTIONS

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SECTIONS

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W&S File No.: ---

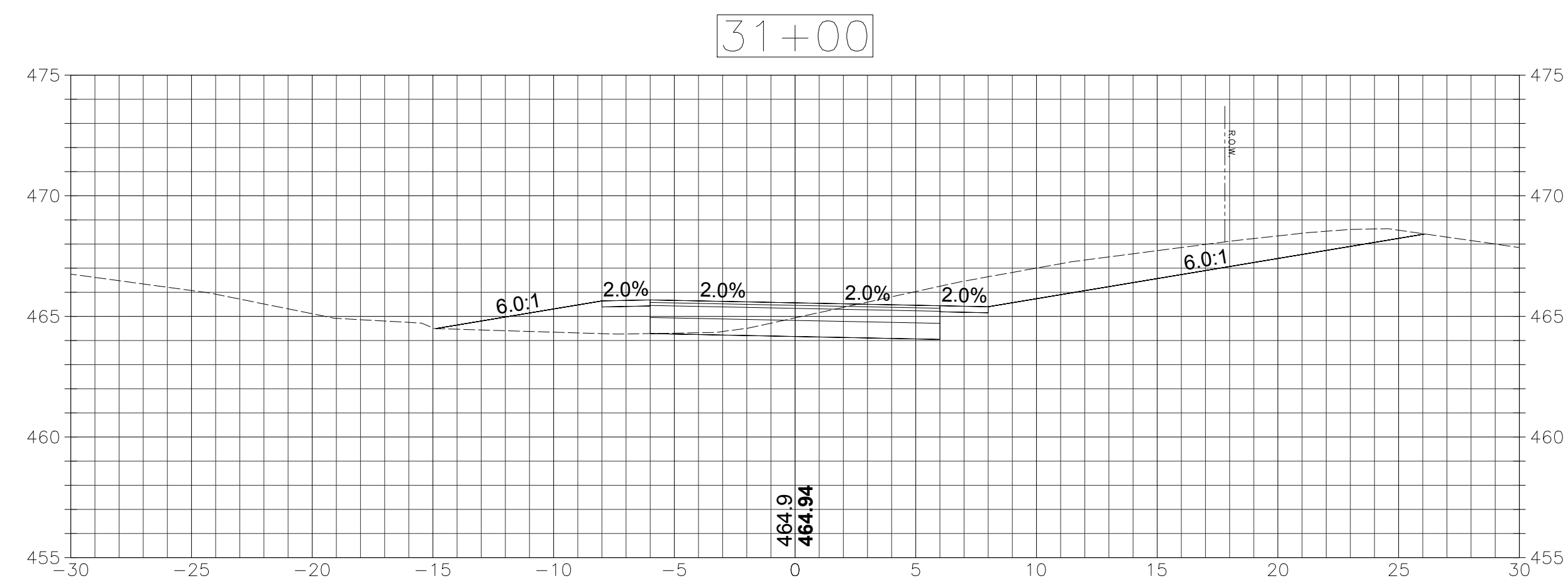
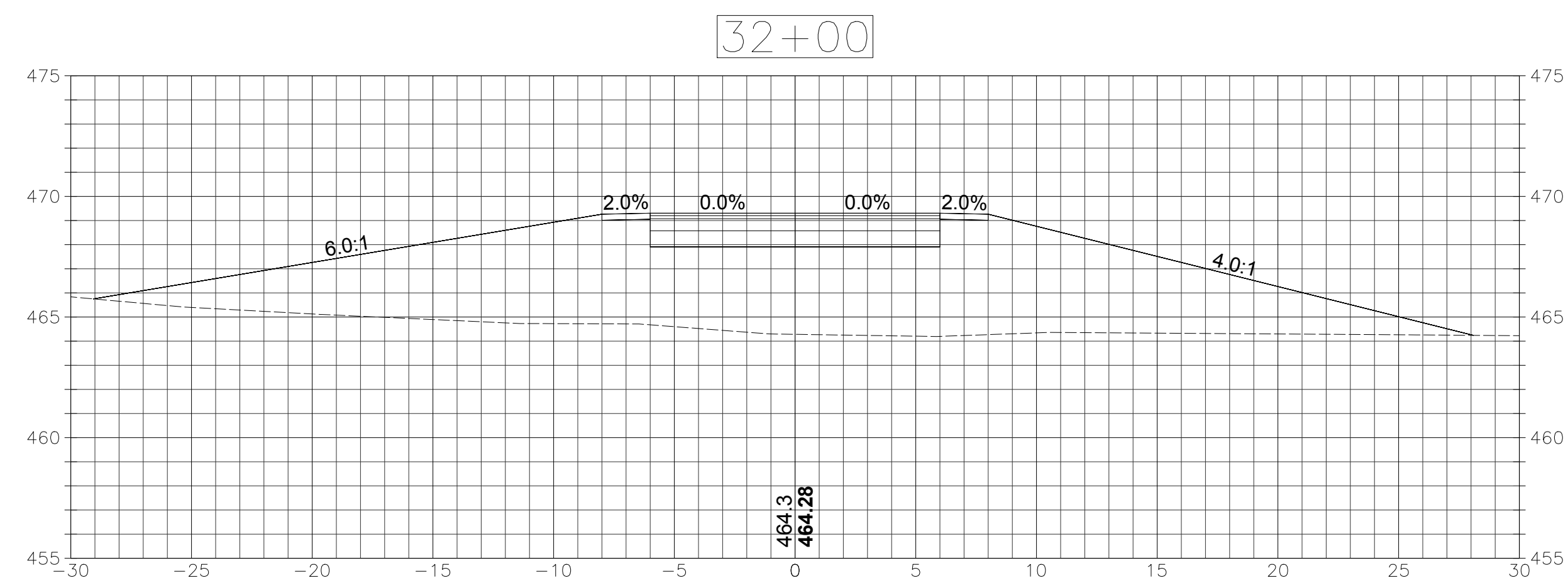
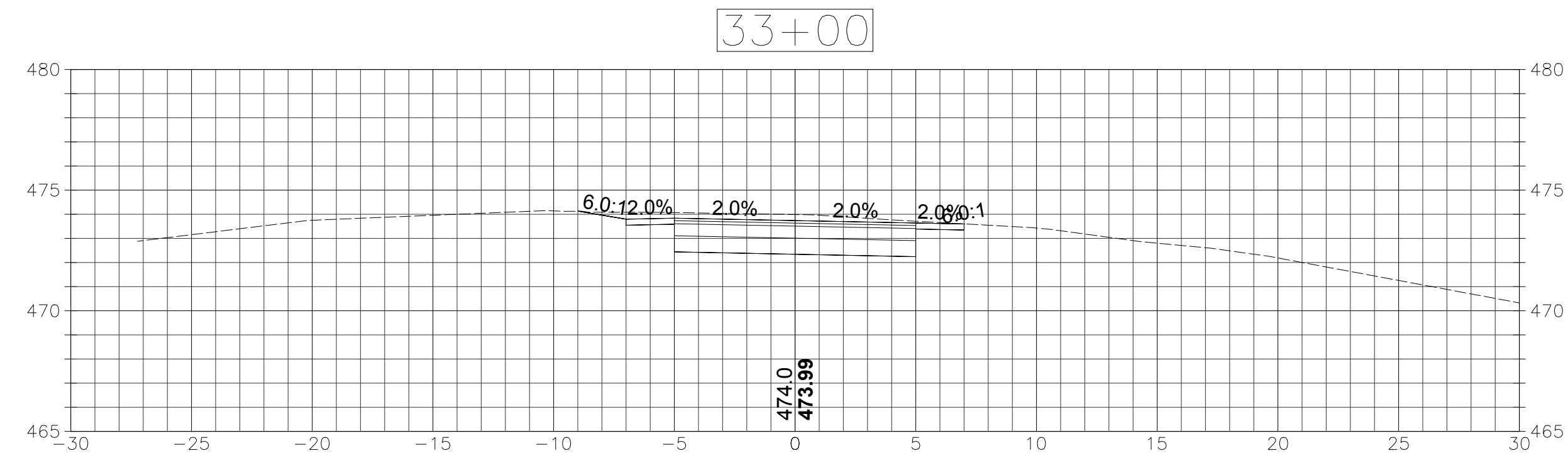
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SECTIONS

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SECTIONS

SCALE: 1"=5'



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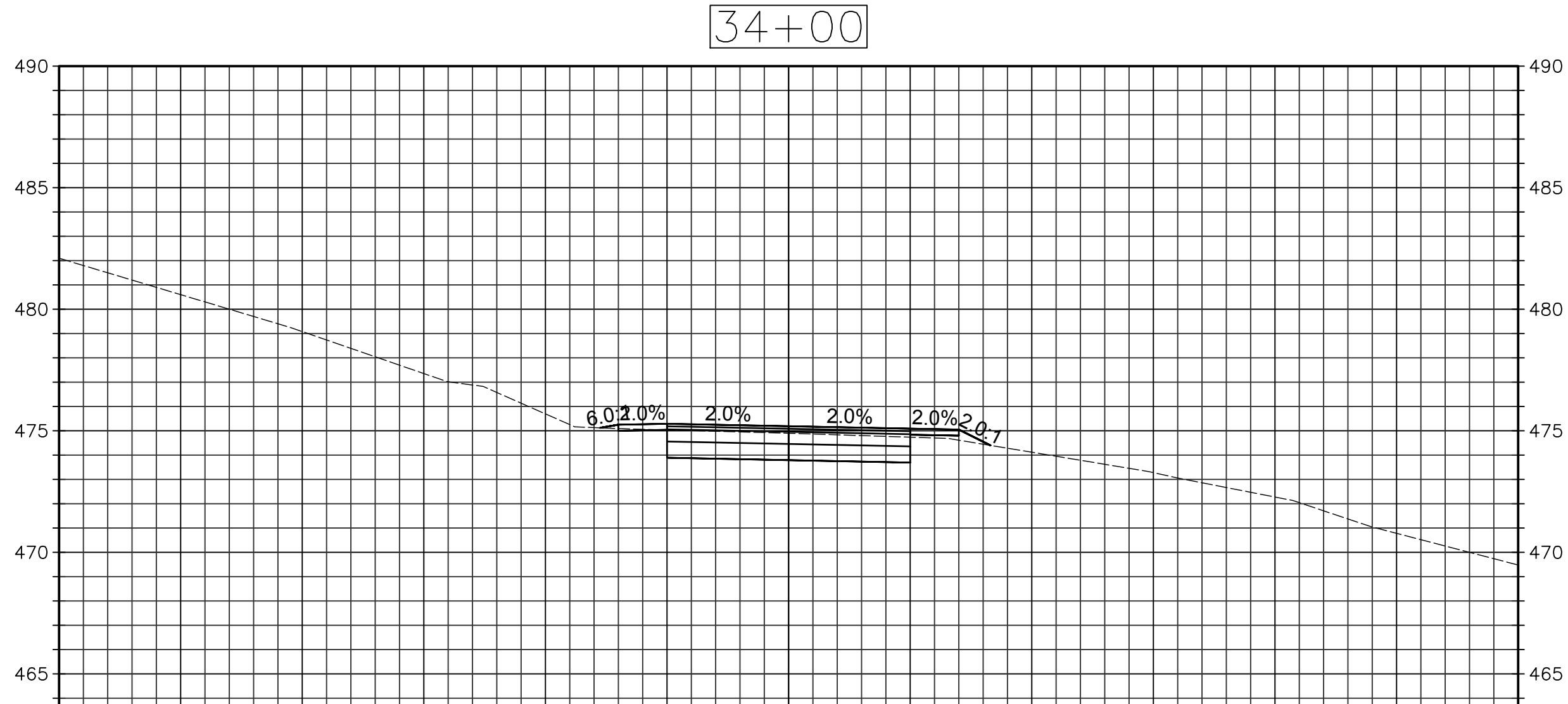
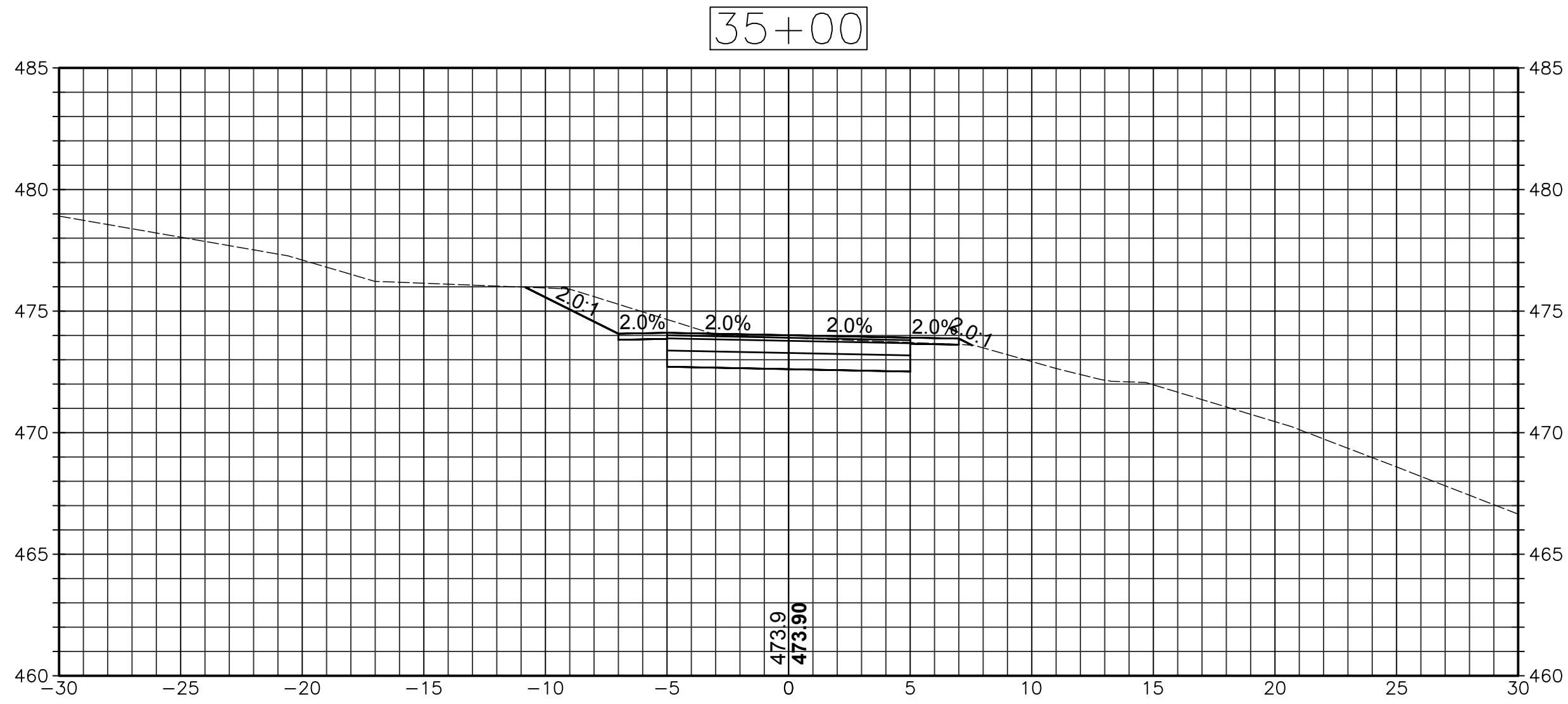
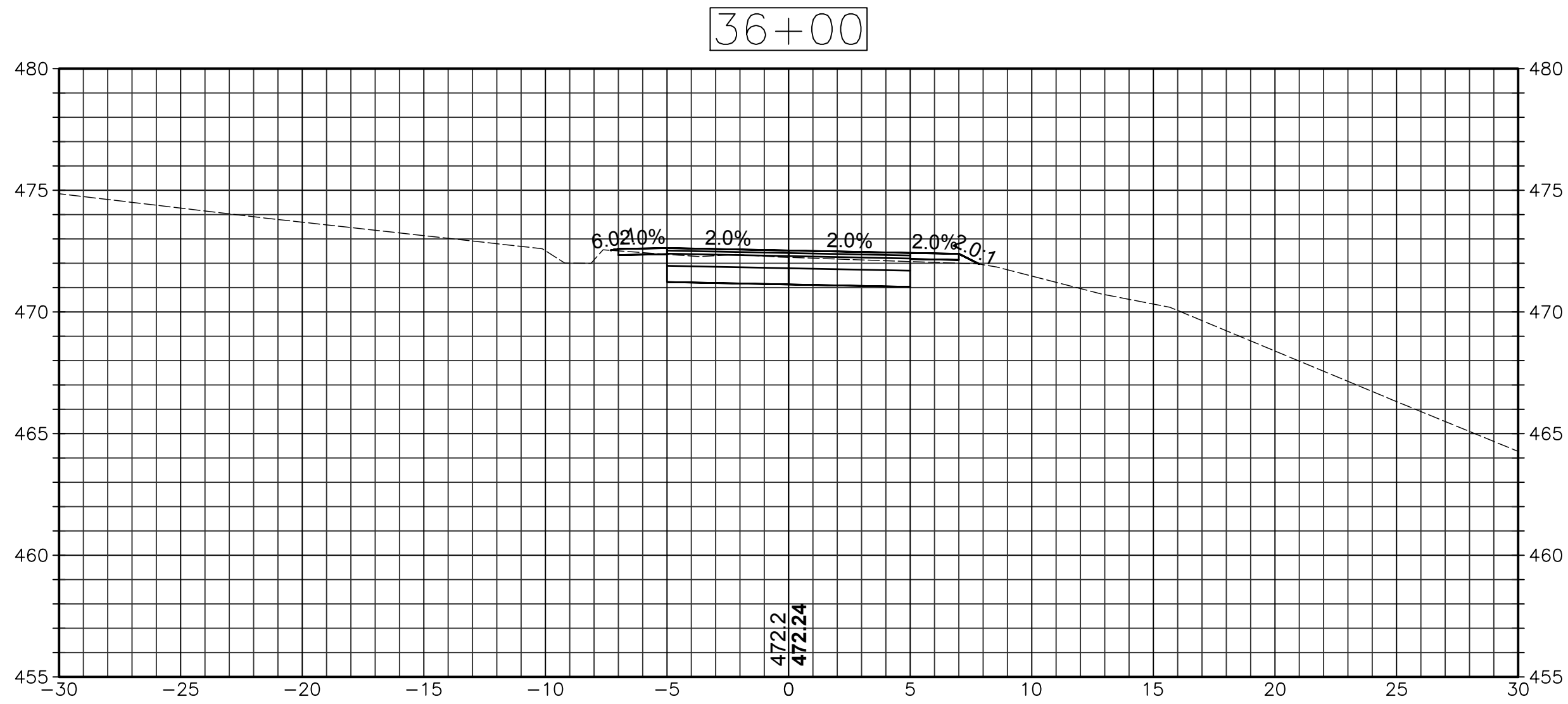
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CRITICAL CROSS SECTIONS

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XSC-8



SECTIONS

SCALE: 1"=5'

Project: PROJECT NO. 153-125



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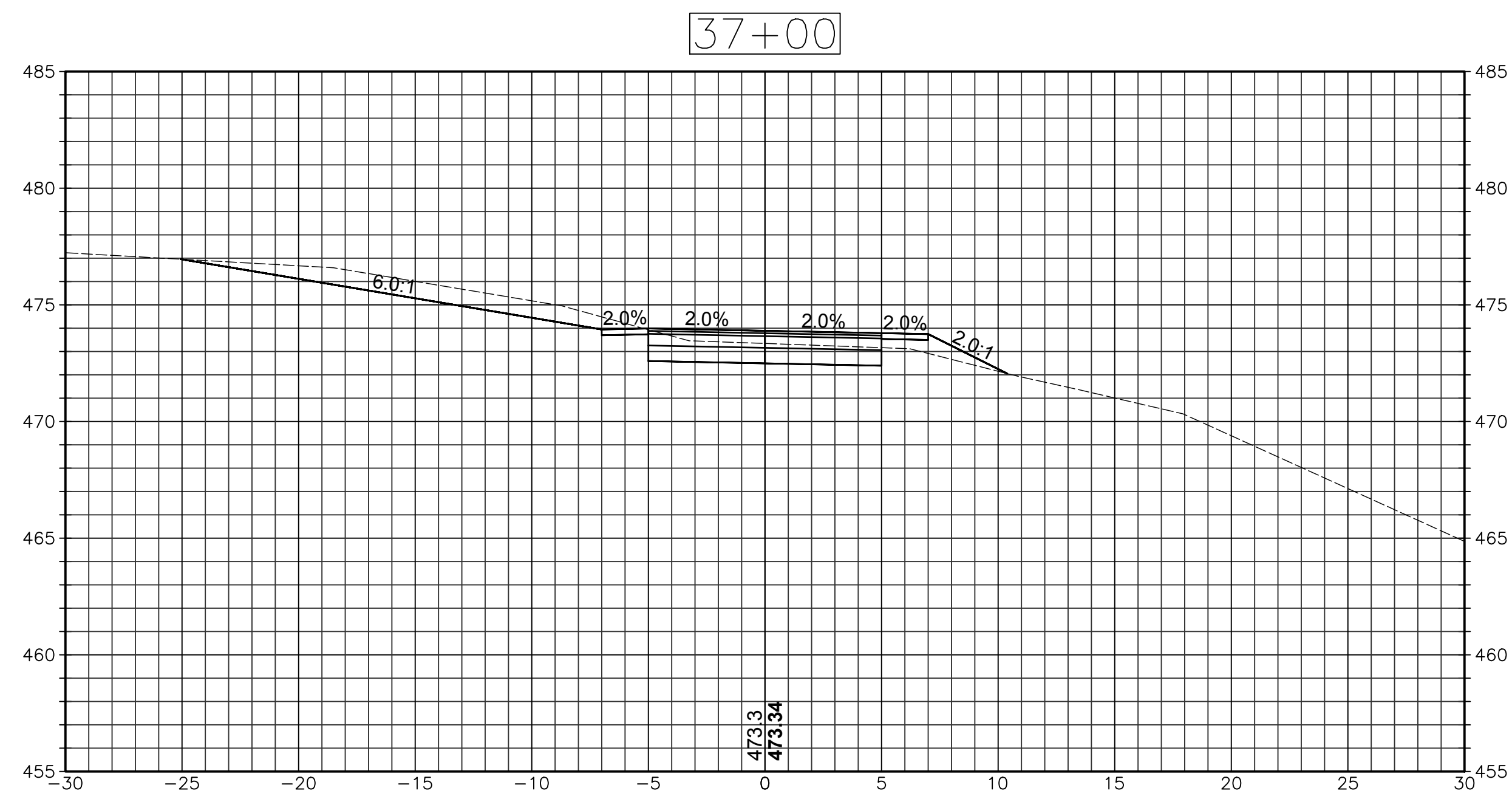
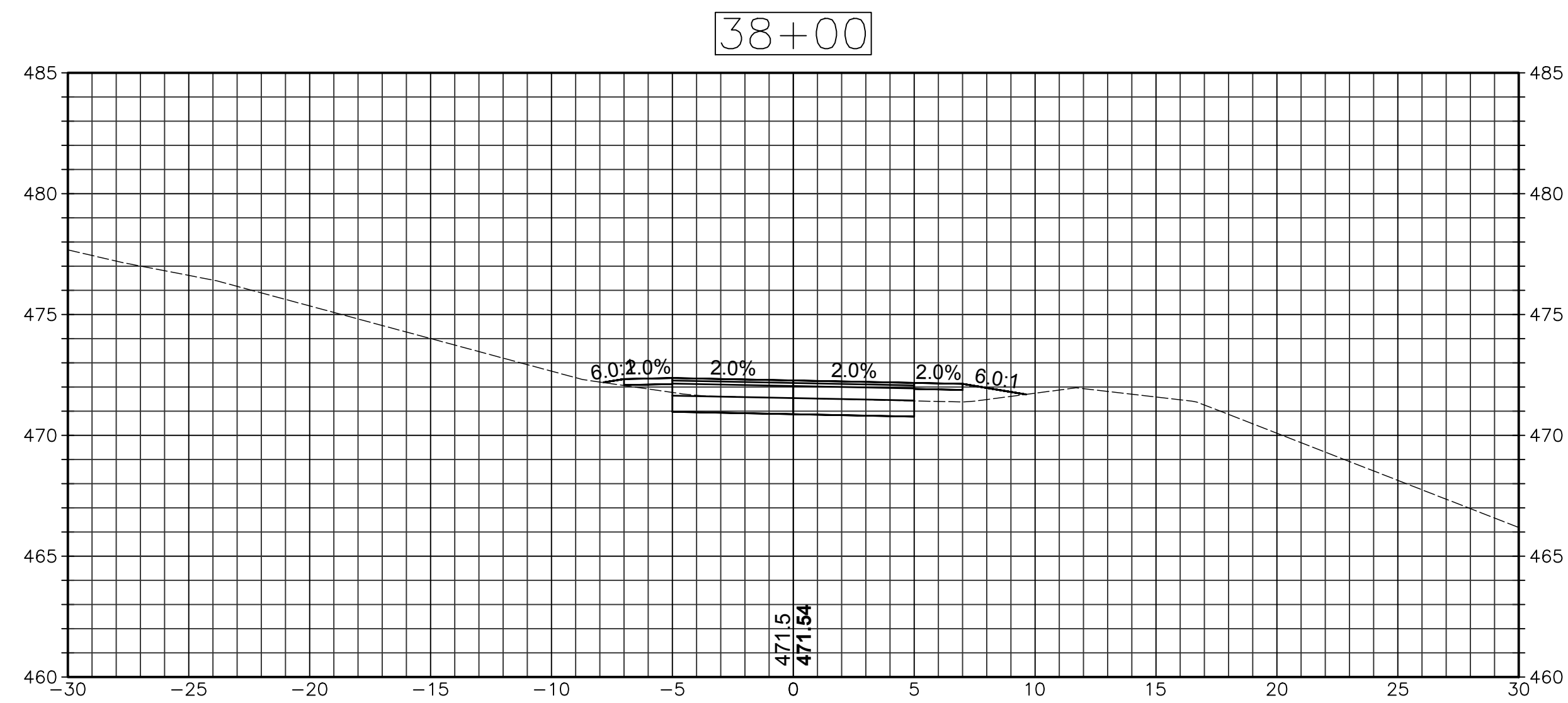
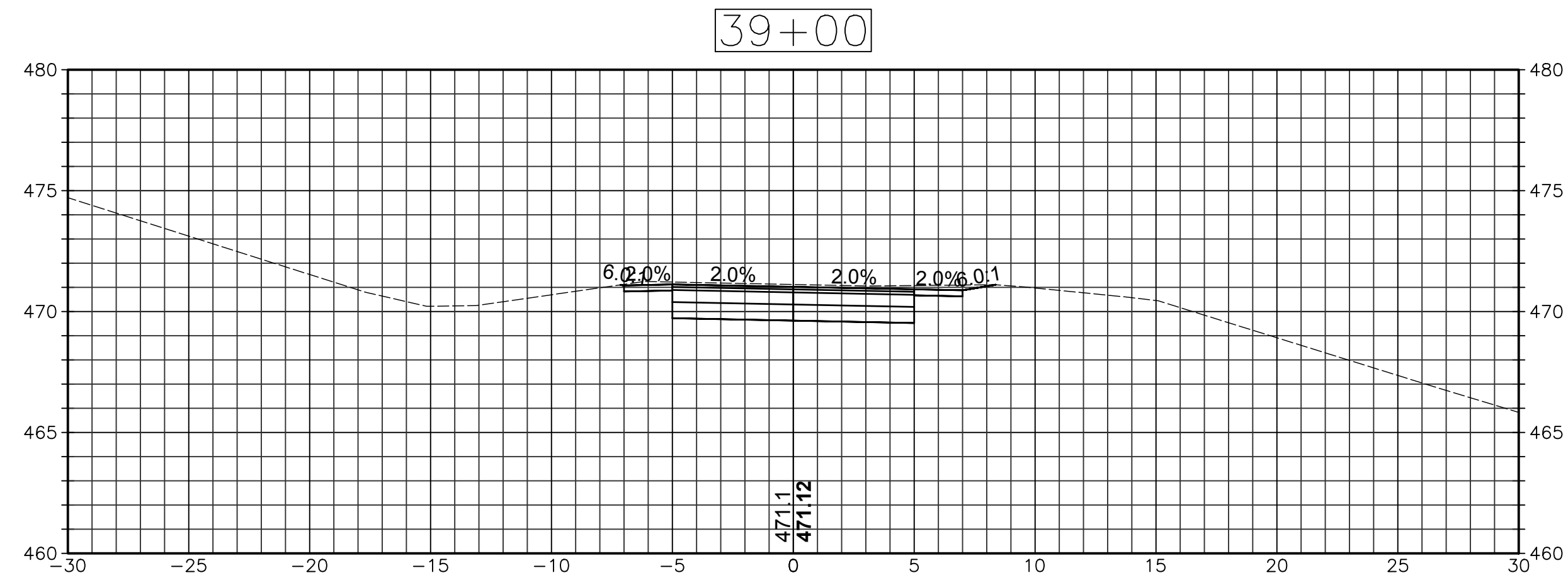
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SECTIONS
SCALE: 1"=5'

Project: PROJECT NO. 153-125



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Drawn By:	AMN
Reviewed By:	KAC
Approved By:	MJJ
W&S Project No.:	ENG23-0694
W&S File No.:	---

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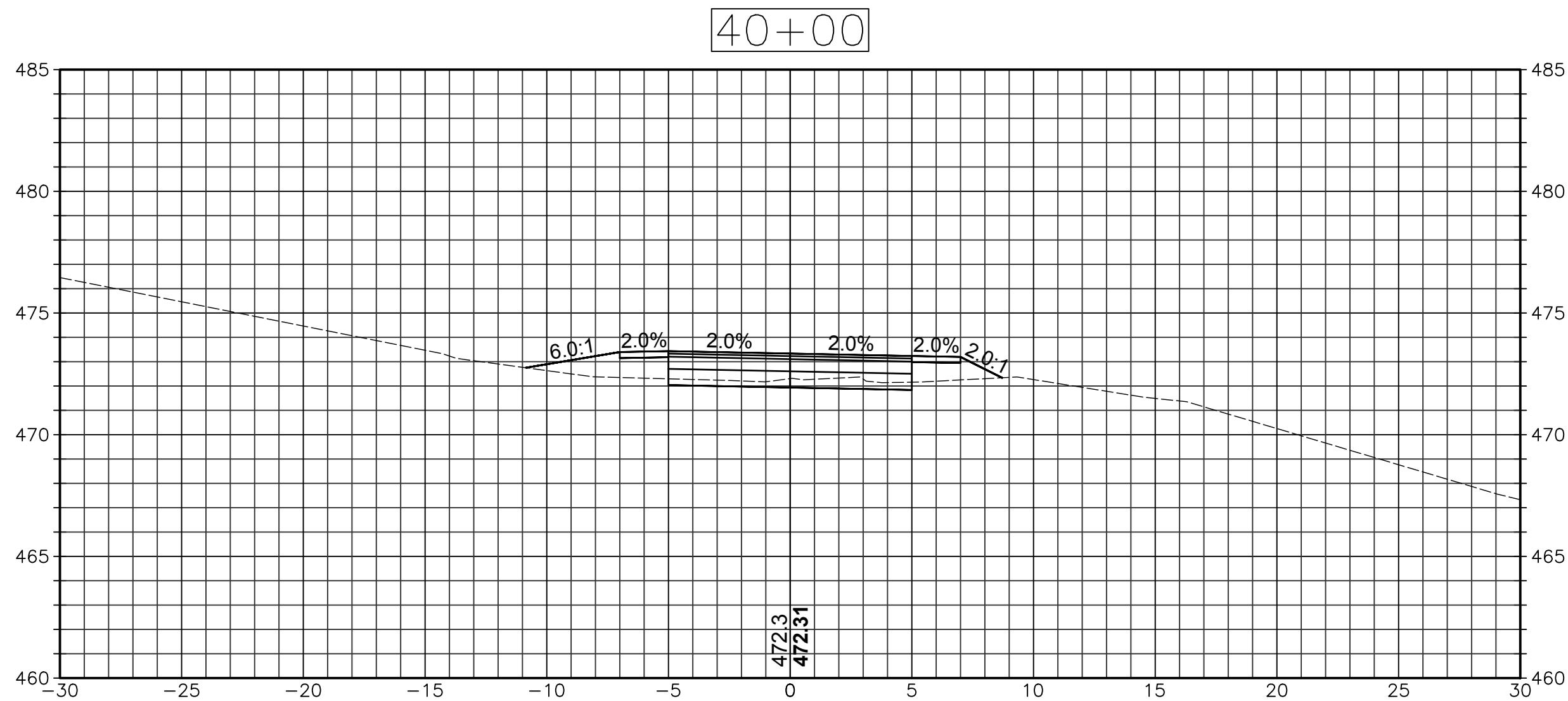
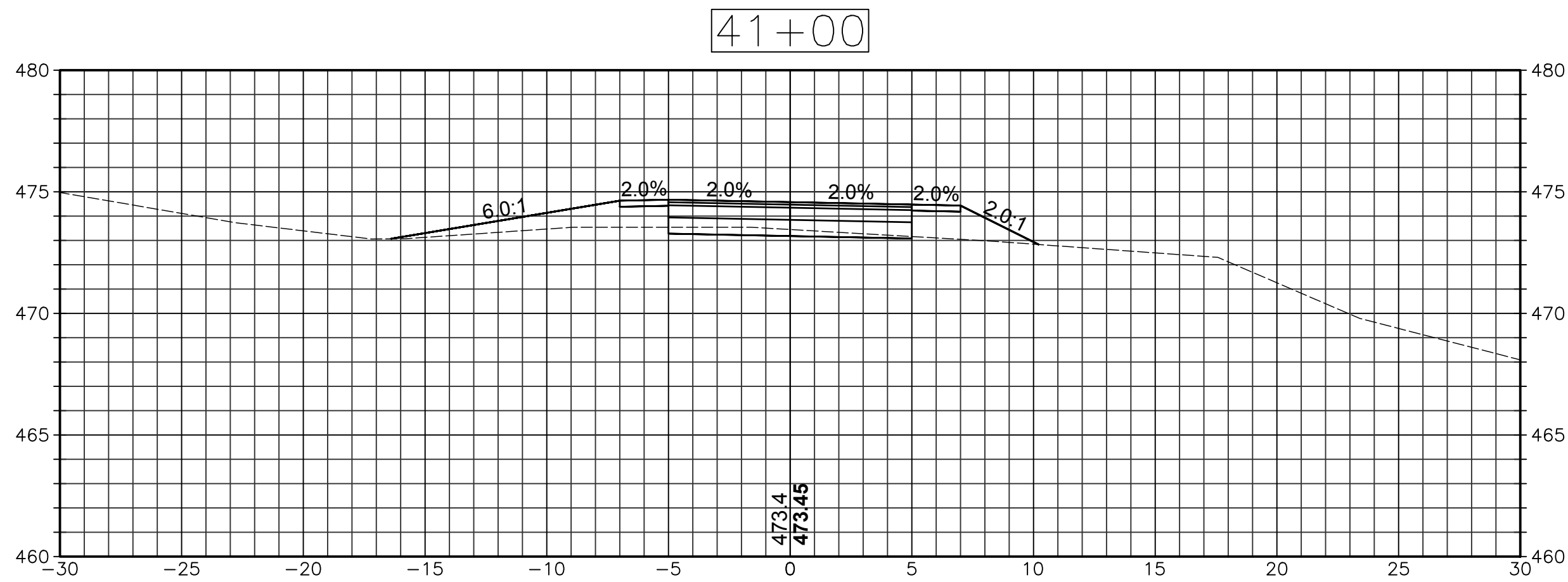
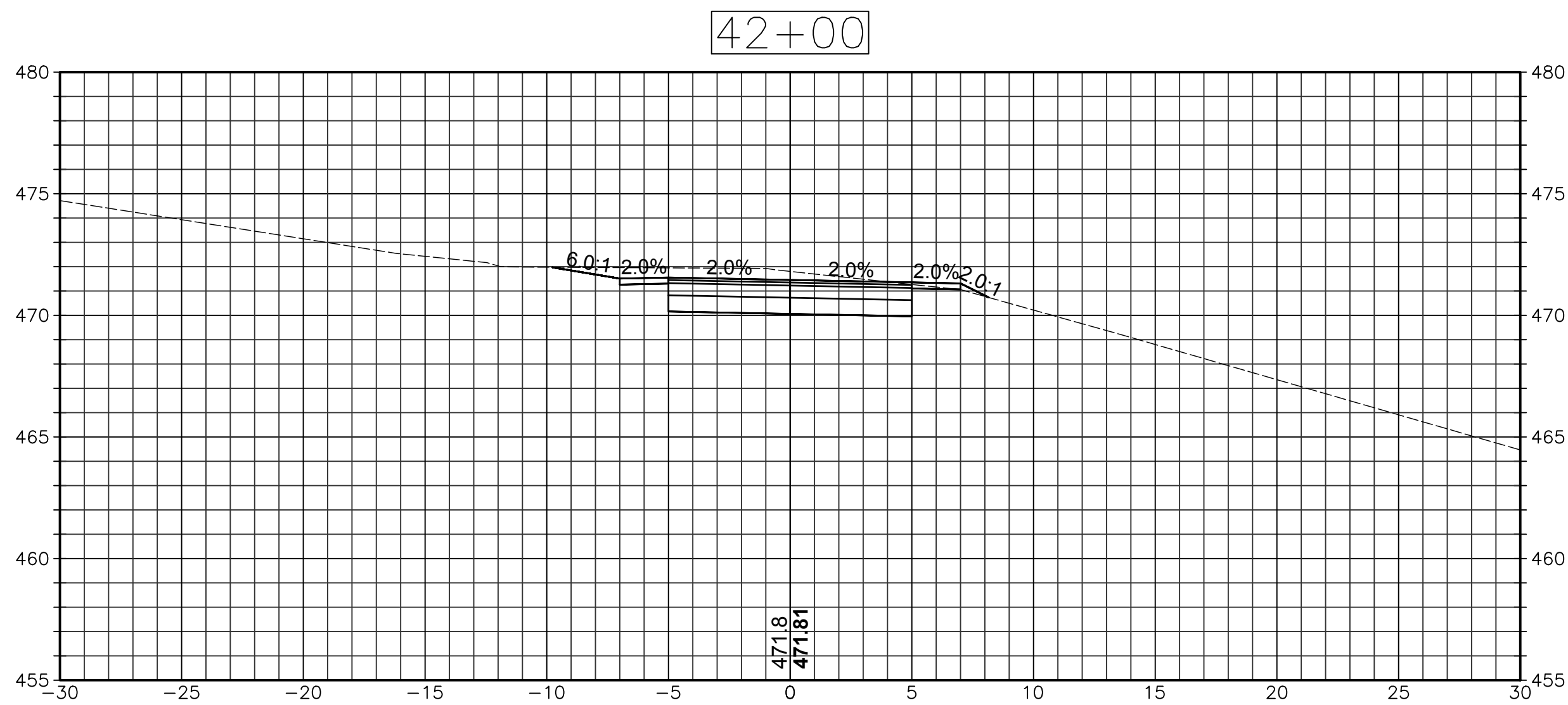
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Sheet Number:

XSC-10

Rev. 1.0 Date: 04/10/2019

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SECTIONS

SCALE: 1"=5'

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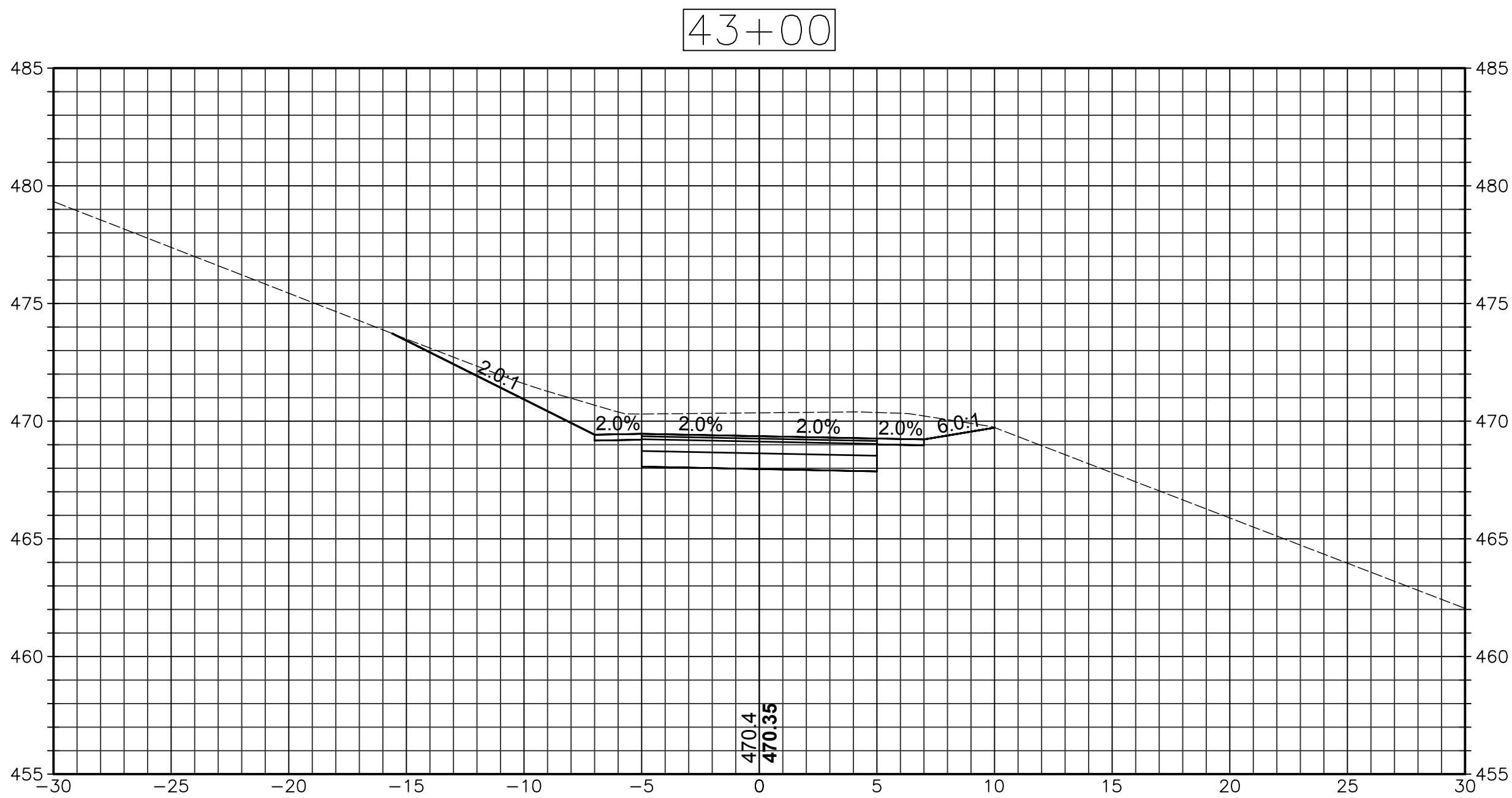
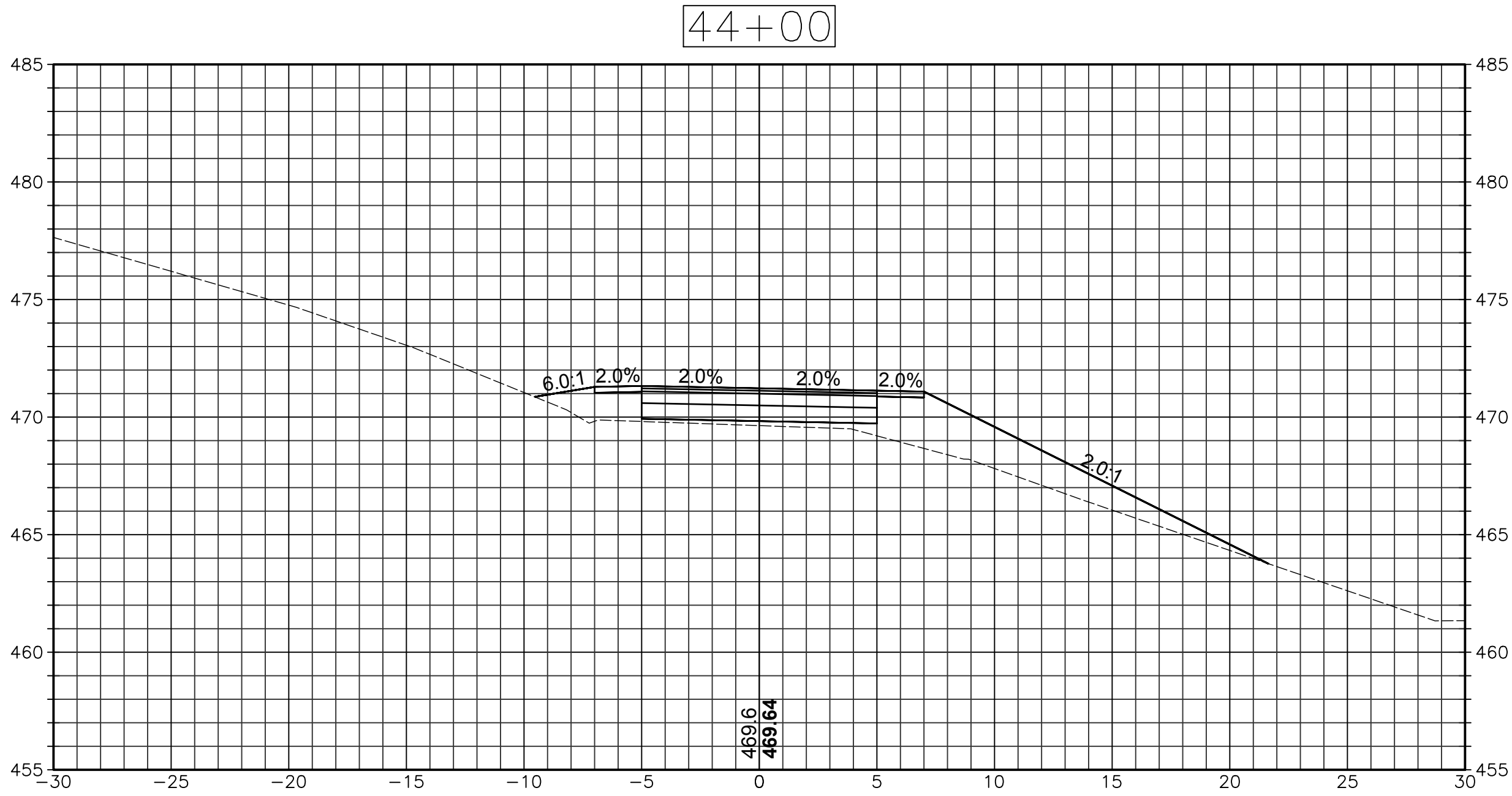
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10



SECTIONS

SCALE: 1"=5'

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Project: PROJECT NO. 153-125



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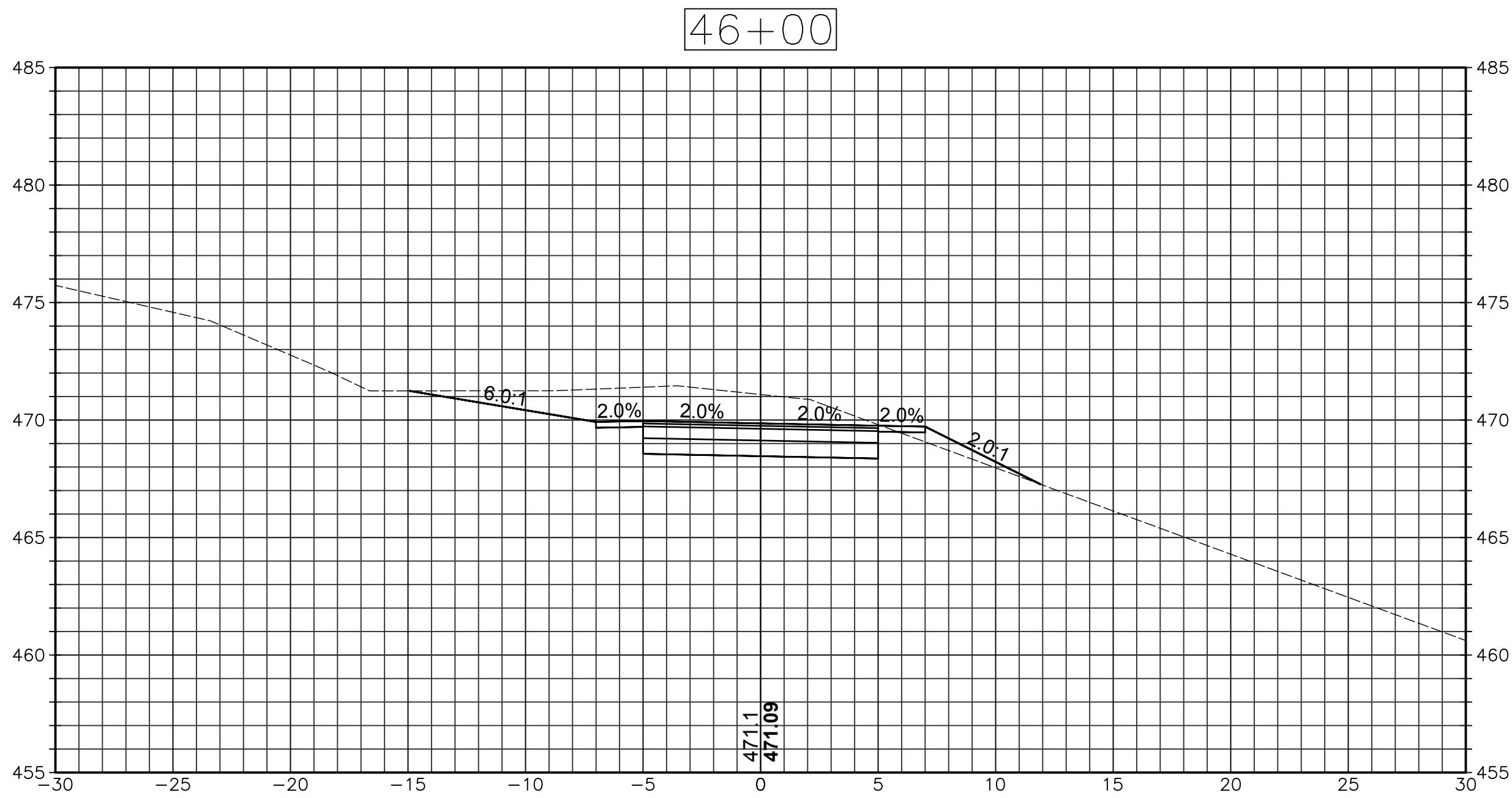
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PROJECT NO. 153-125



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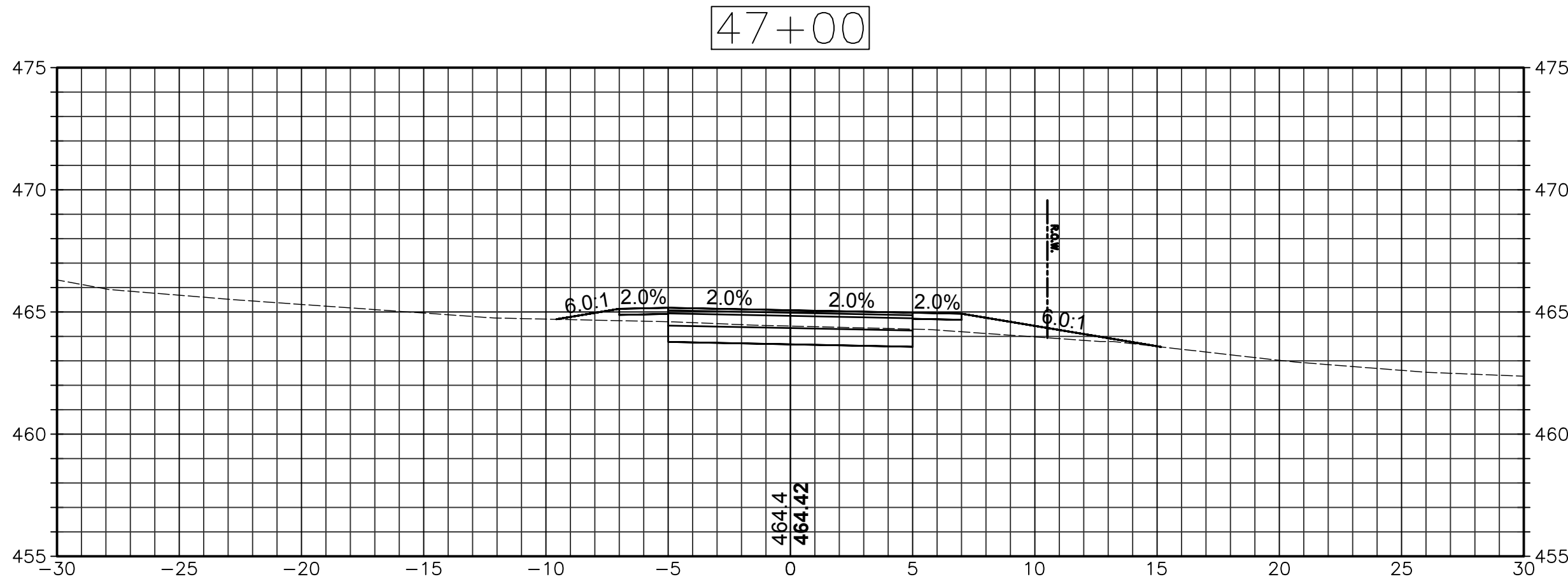
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SECTIONS**

Sheet Number:

XSC-13



SCALE: 1"=5'



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Project: PROJECT NO. 153-125



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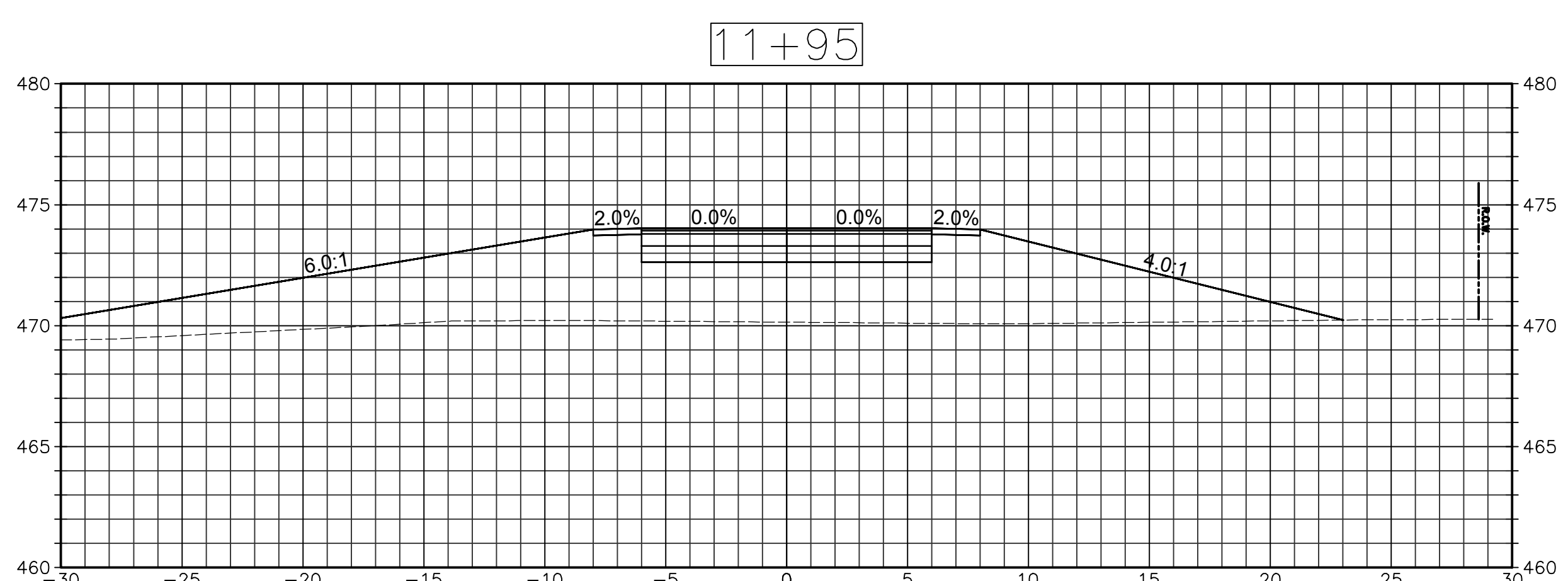
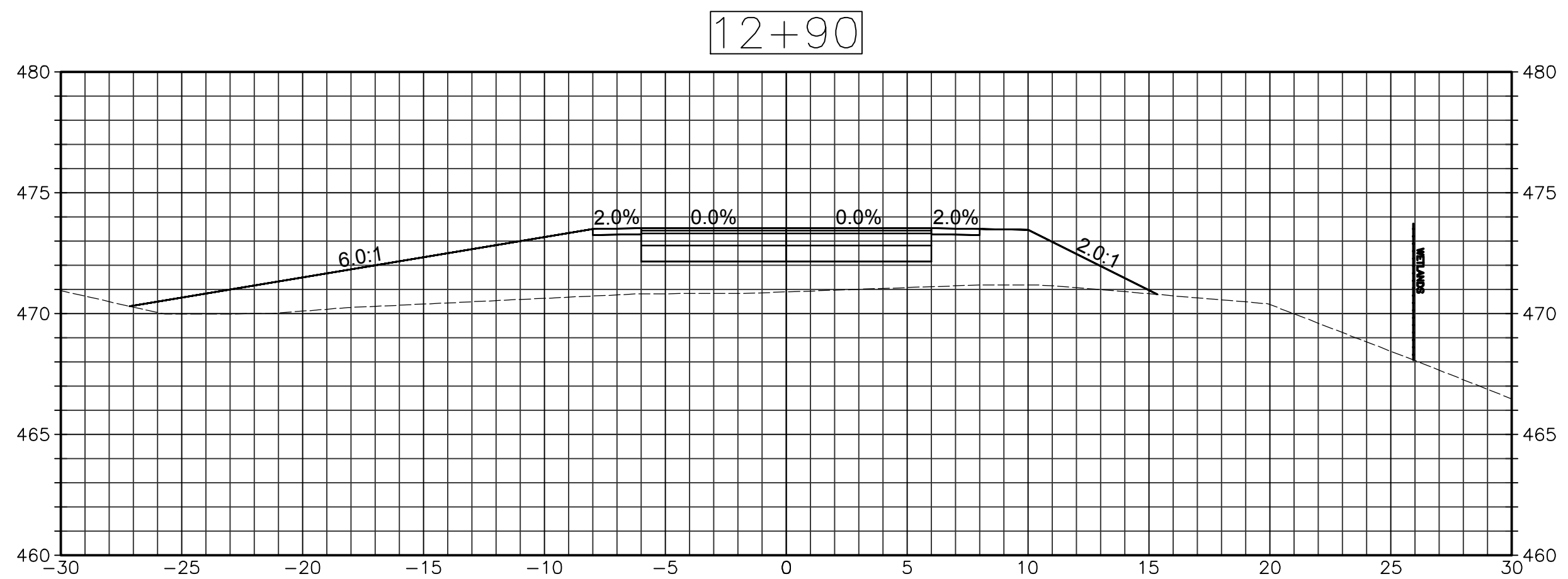
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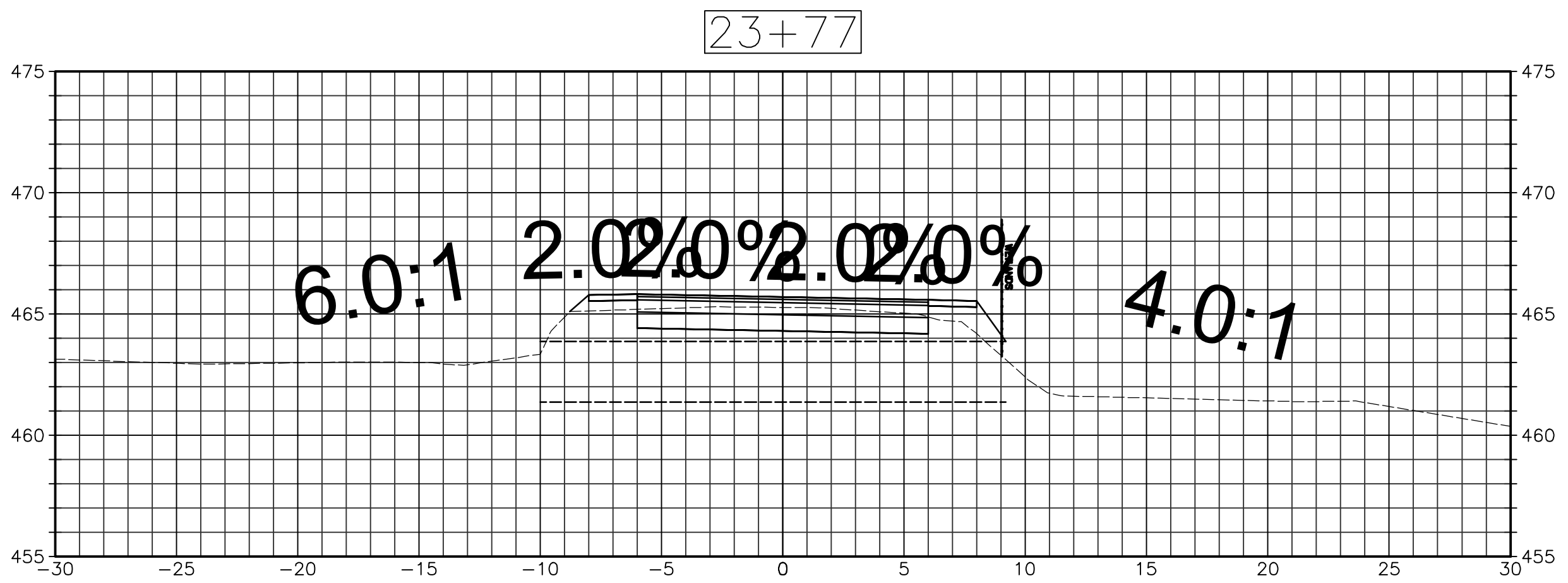
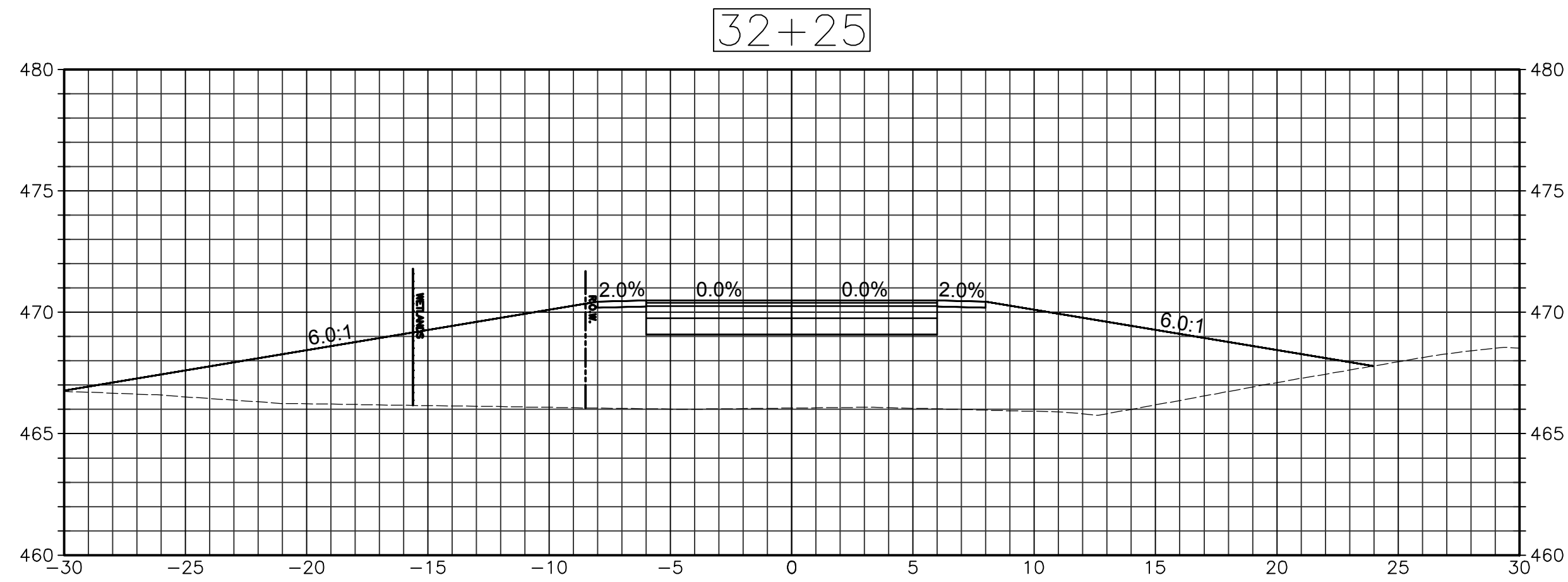
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SECTIONS

SCALE: 1"=5'



SCALE: 1"=5'

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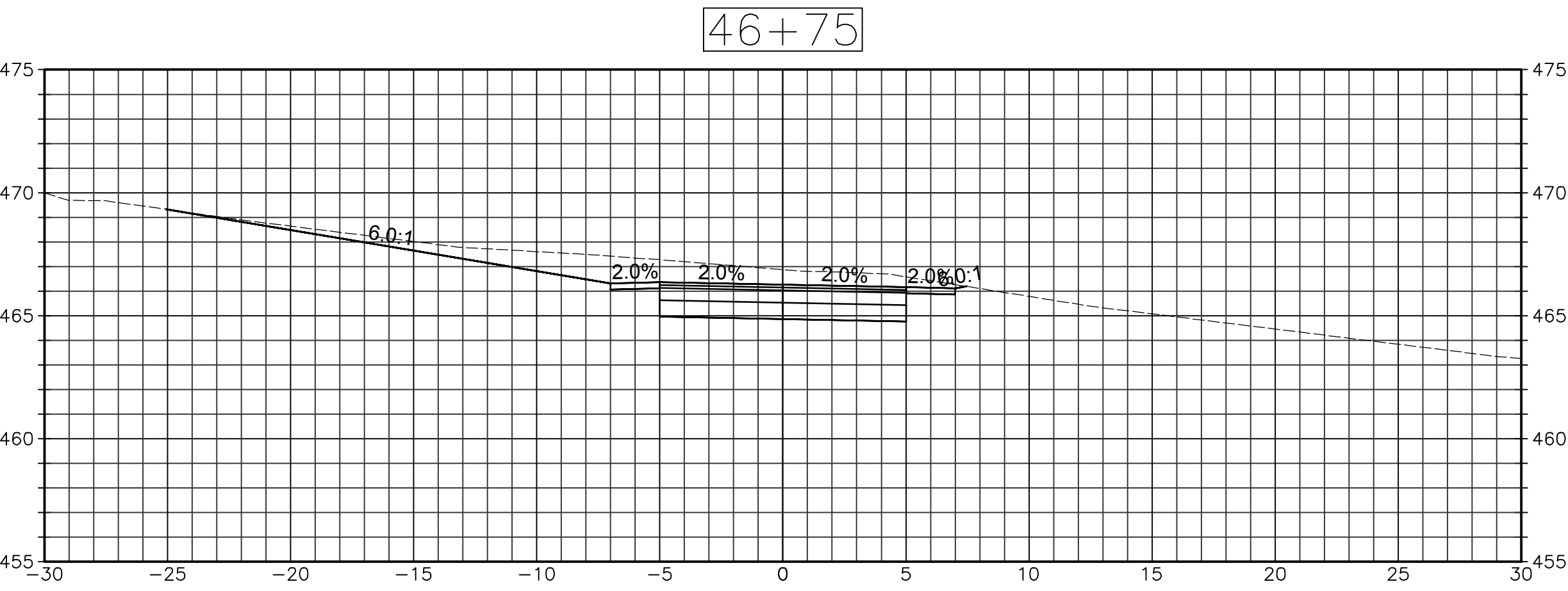
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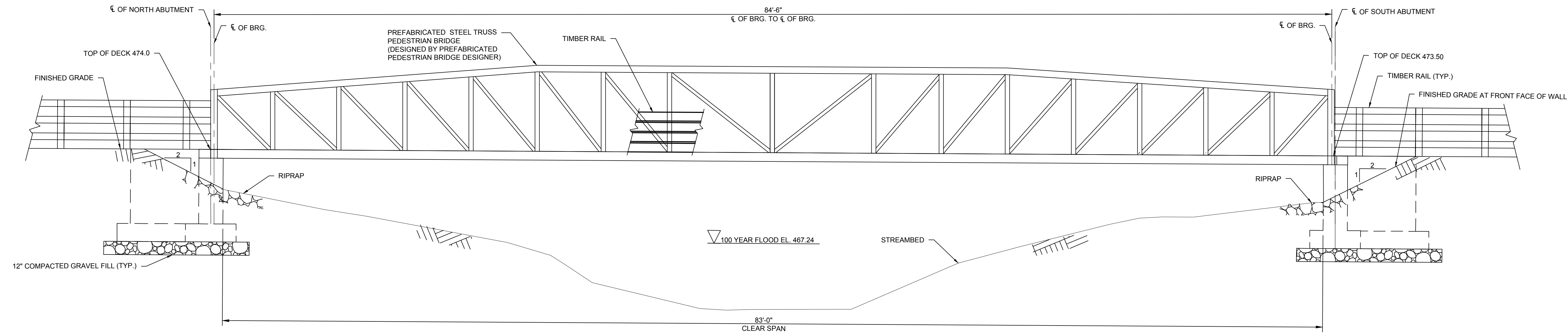
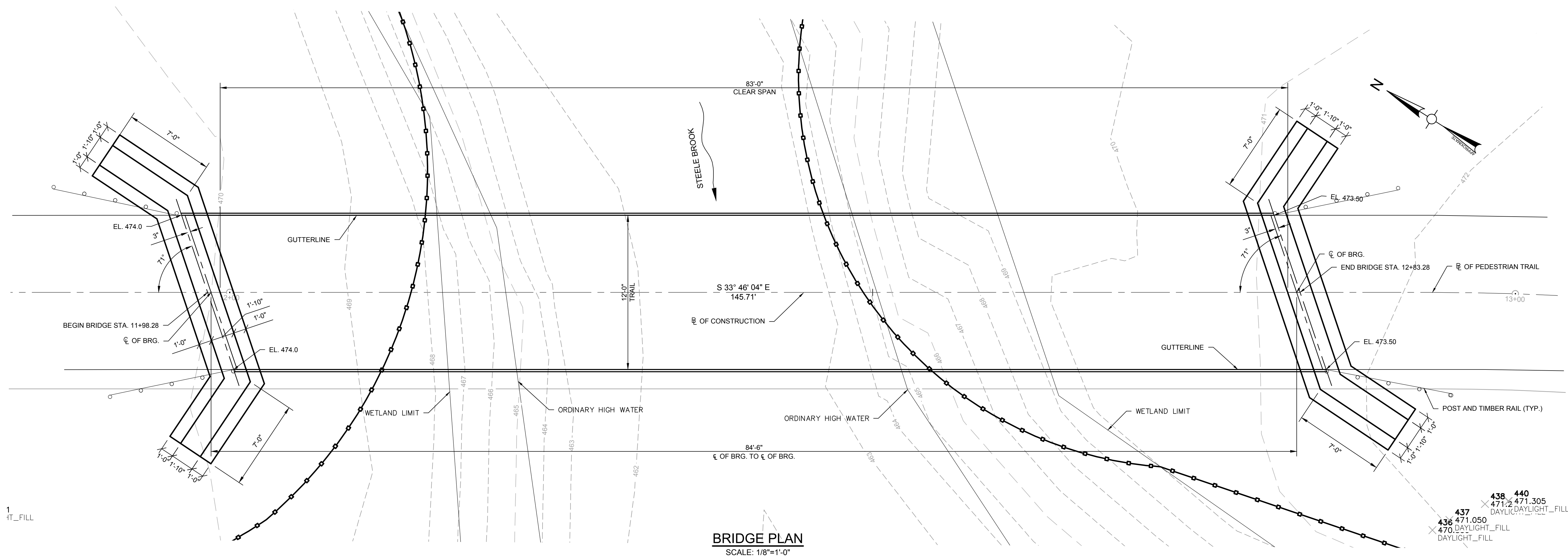
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SCALE: 1"=5

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Rev: 1.6 Date: 04/10/2019

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Date: SEPTEMBER 27, 2023

Drawn By: JR

Reviewed By: BDL

Approved By: ---

W&S Project No.: ENG23-0694

W&S File No.: ---

Drawing Title:

BRIDGE PLAN AND
DOWNSTREAM
ELEVATION

Sheet Number:

S-1

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GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016) WITH SUPPLEMENT SPECIFICATIONS (JANUARY 2019) AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: DESIGNED ACCORDING TO AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS LRFD BRIDGE DESIGN SPECIFICATIONS (2017), AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) AND DESIGN AND CONSTRUCTION GUIDELINES FOR GEOSYNTHETIC REINFORCED SOIL ABUTMENTS AND INTEGRATED BRIDGE SYSTEM (FHWA).

ALLOWABLE DESIGN STRESSES:
CLASS "F" CONCRETE.....BASED ON $f_c = 4,000$ PSI
REINFORCEMENT (ASTM A615 GRADE 60)..... $f_y = 60,000$ PSI

LIVE LOAD: H-10

FUTURE PAVING ALLOWANCE: NONE

STRUCTURAL STEEL: SEE BRIDGE SUPERSTRUCTURE NOTES FOR DESIGNATIONS AND REQUIREMENTS.

FOUNDATION LOADS: THE VARIOUS GROUP LOADINGS FOUND ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN MANUAL (2017).

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROES

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED ON SUBSTRUCTURE, BRIDGE SEAT AND PILASTERS

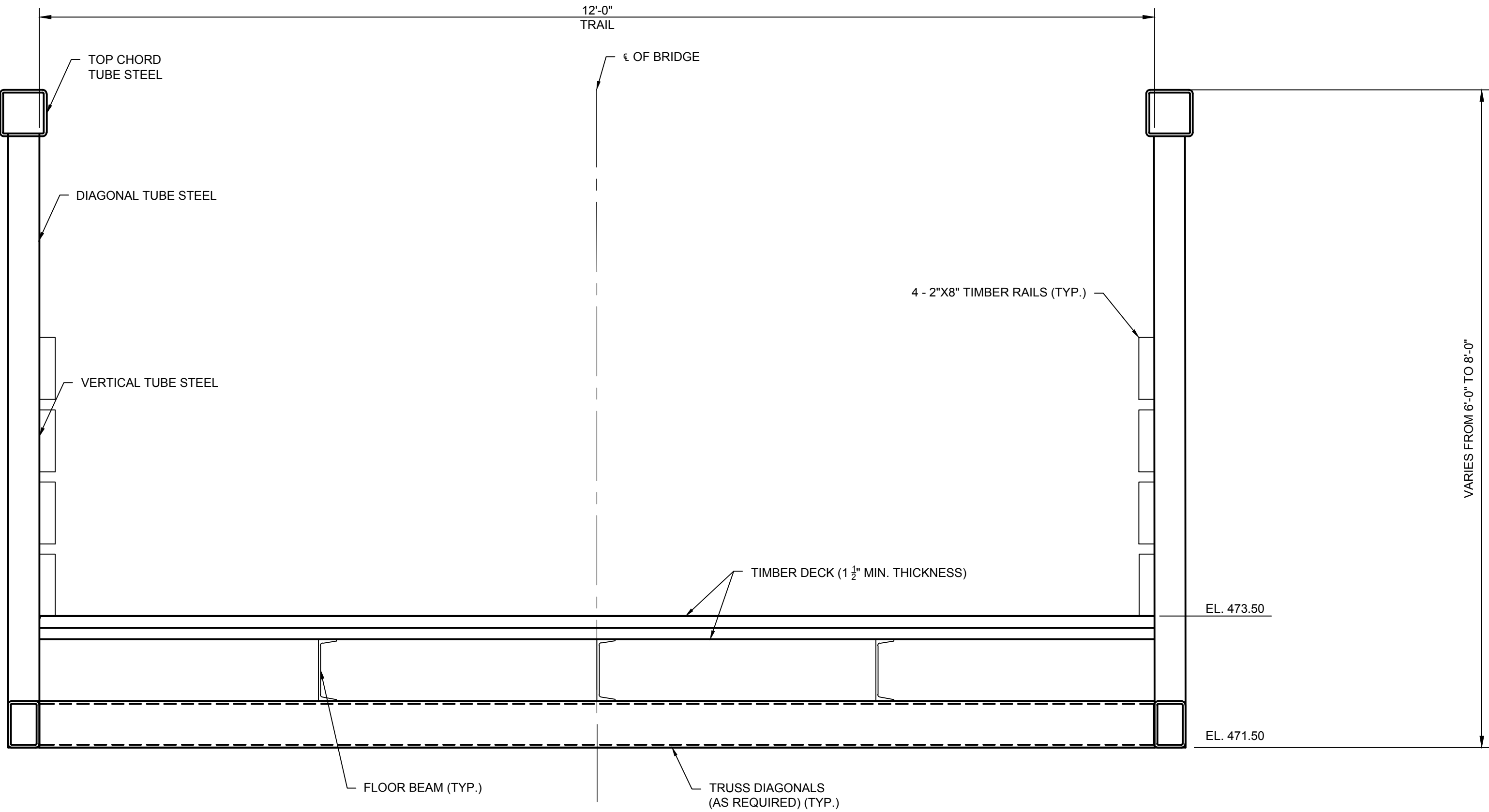
EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES OF COVER UNLESS DIMENSIONED OTHERWISE

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60

CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE ITEM "CLASS F" CONCRETE."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER



TYPICAL BRIDGE SECTION

SCALE: 1"=1'-0"

Project:



Weston & Sampson

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Consultants:

Revisions:

No.	Date	Description

Seal:

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Scale: AS NOTED

Date: SEPTEMBER 27, 2023

Drawn By: JR

Reviewed By: BDL

Approved By: ---

W&S Project No.: ENG23-0694

W&S File No.: ----

Drawing Title:

GENERAL NOTES
AND TYPICAL
SECTION

Sheet Number:

S-2

Rev: 1.6 Date: 04/10/2019

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