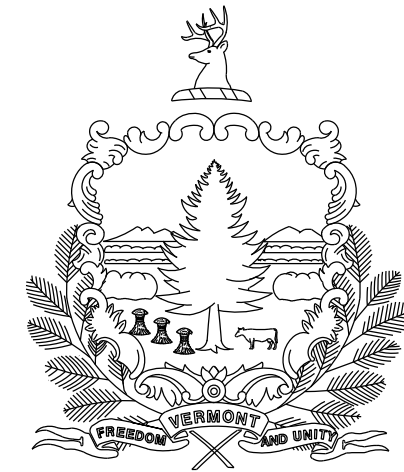


STATE OF VERMONT AGENCY OF TRANSPORTATION

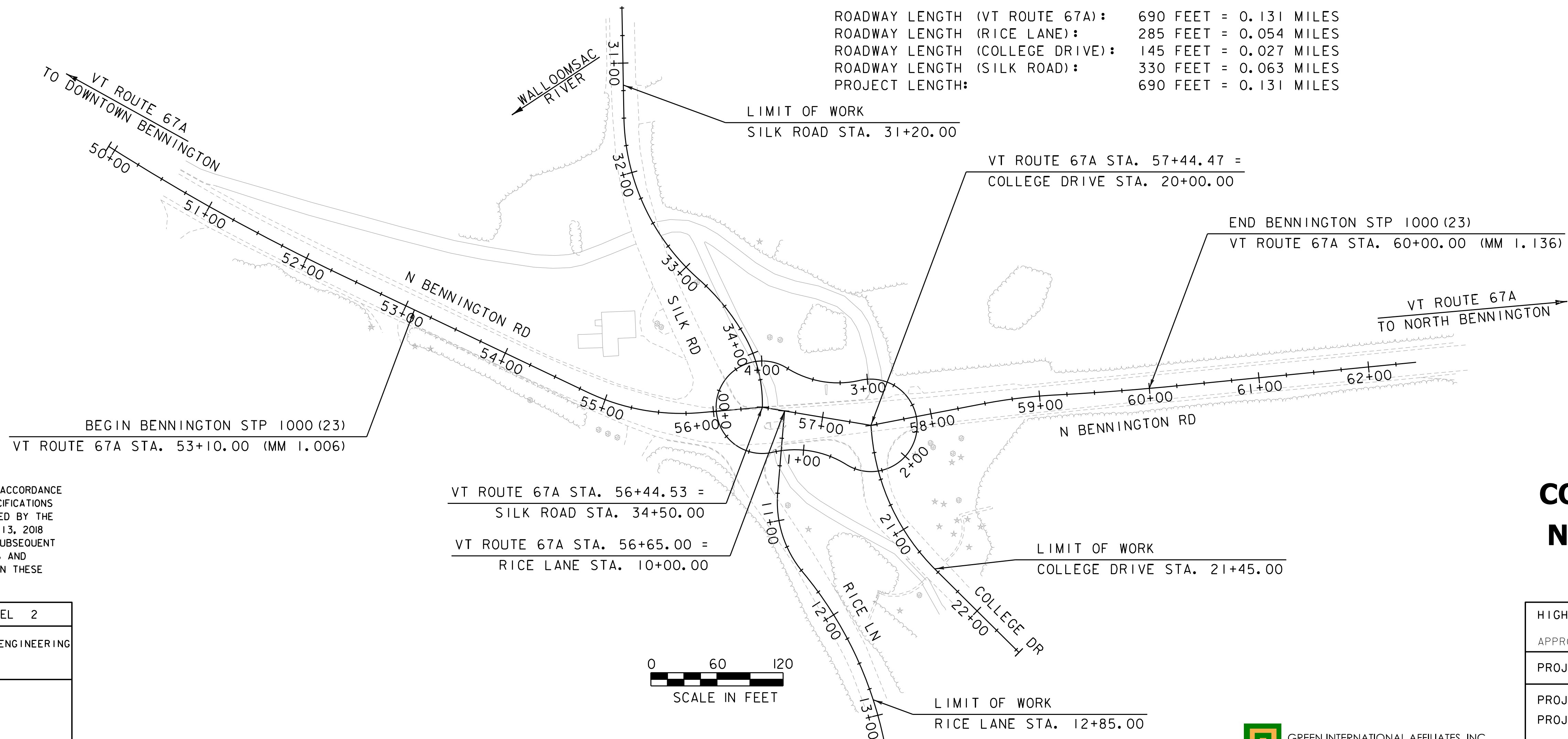
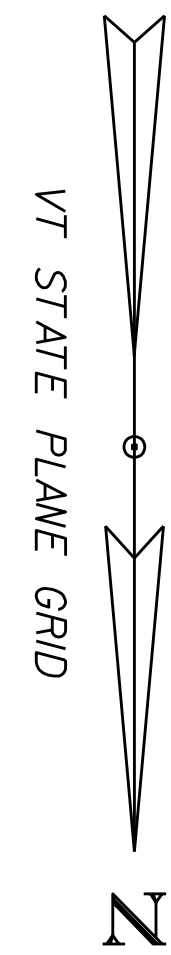
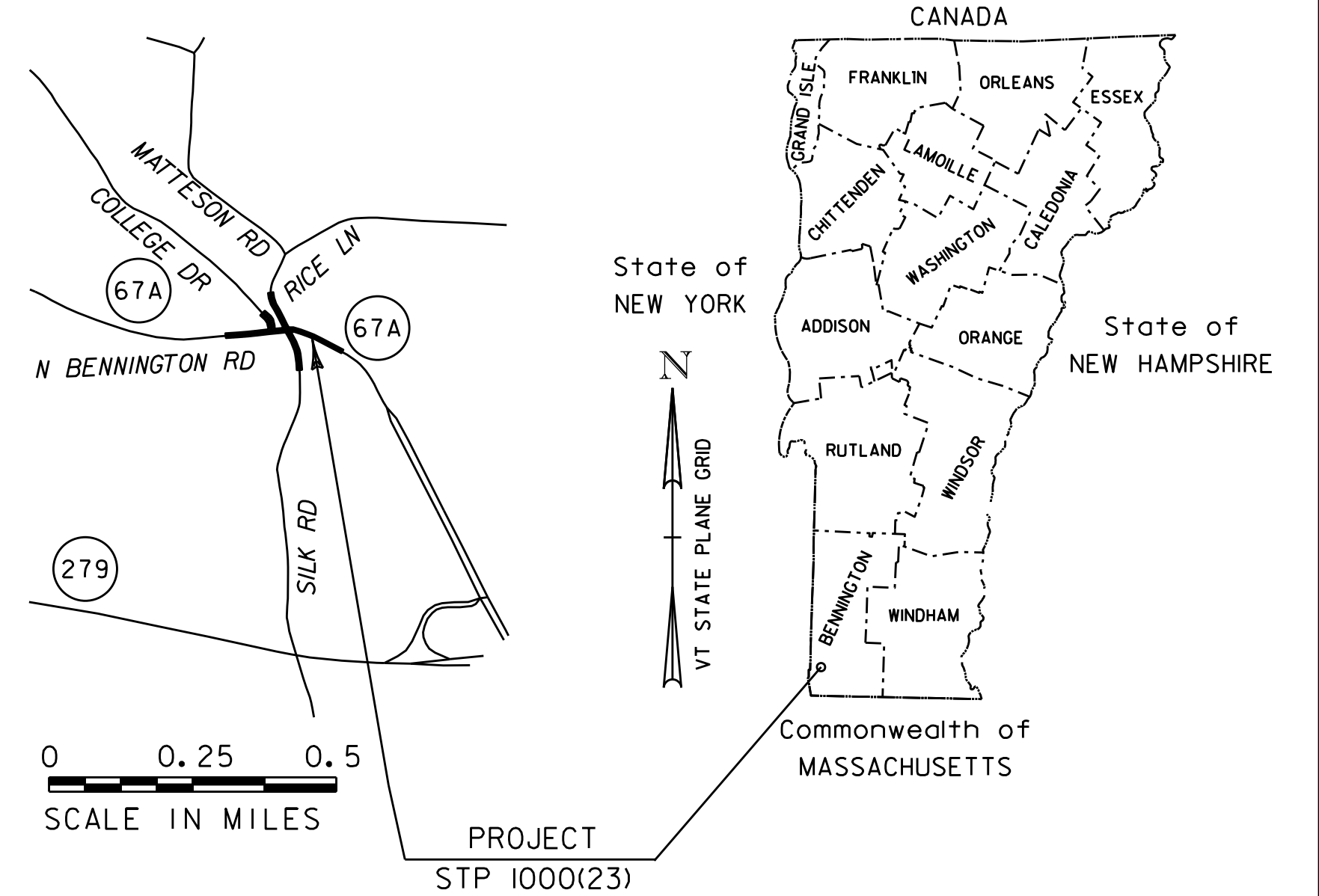


TOWN OF BENNINGTON BENNINGTON COUNTY VT ROUTE 67A (MINOR ARTERIAL) (NON-NHS)

PROJECT LOCATION: BEGINNING AT A POINT IN THE TOWN OF BENNINGTON, ON VT ROUTE 67A, AT APPROXIMATELY 1.006 MILES FROM THE INTERSECTION OF VT ROUTE 7A AND EXTENDING NORTHERLY APPROXIMATELY 690 FEET TO APPROXIMATE MILE MARKER 1.136

PROJECT INFORMATION: WORK TO BE PERFORMED UNDER THIS PROJECT CONSISTS OF FULL DEPTH RECONSTRUCTION OF THE ROADWAY, CONSTRUCTION A NEW ROUNDABOUT, DRAINAGE, LANDSCAPING, AND OTHER RELATED ROADWAY ITEMS

ROADWAY LENGTH (VT ROUTE 67A): 690 FEET = 0.131 MILES
 ROADWAY LENGTH (RICE LANE): 285 FEET = 0.054 MILES
 ROADWAY LENGTH (COLLEGE DRIVE): 145 FEET = 0.027 MILES
 ROADWAY LENGTH (SILK ROAD): 330 FEET = 0.063 MILES
 PROJECT LENGTH: 690 FEET = 0.131 MILES



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2
SURVEYED BY : VERMONT SURVEY AND ENGINEERING
SURVEYED DATE : 9/14/2020
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

**CONCEPTUAL PLANS
NOVEMBER 6, 2020**

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____
PROJECT MANAGER : MICHAEL LACROIX, P.E.
PROJECT NAME : BENNINGTON
PROJECT NUMBER : STP 1000 (23)
SHEET 1 OF 22 SHEETS



INDEX OF SHEETS

1. TITLE SHEET
2. INDEX OF SHEETS
3. CONVENTIONAL SYMBOLOLOGY LEGEND SHEET
- 4-6. TYPICAL SECTIONS SHEETS
7. ALIGNMENT SHEET
8. PLAN SHEET
- 9-14. PROFILE SHEETS
15. LANDSCAPE PLAN SHEET
16. PAVEMENT MARKINGS AND SIGNS PLAN SHEET
- 17-22. CRITICAL CROSS SECTIONS

HIGHWAY SAFETY AND DESIGN DETAILS

HSD - 400.01 SAFETY EDGE DETAILS

01/05/2018

STANDARDS LIST

A-76	STANDARDS FOR TOWN & DEVELOPMENT ROADS	03/03/2003
A-78	SHARED USE PATH TYPICAL	04/07/2020
B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06/01/1994
B-71a	STANDARD FOR RESIDENTIAL DRIVES	04/07/2020
C-3A	SIDEWALK RAMPS	04/07/2020
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	04/07/2020
C-10	CURBING	02/11/2008
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	06/01/1994
D-30	UNDERDRAIN CONSTRUCTION DETAILS	08/13/2007
E-1	TREE PLANTING	07/11/2017
E-2	SHRUB PLANTING	07/11/2017
E-3	PERENNIAL GROUND COVERS AND VINES	07/11/2017
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04/07/2020
E-11	CHECK DAM, TYPE I	04/07/2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04/07/2020
E-13	INLET PROTECTION DEVICE, TYPE I	04/07/2020
E-14	INLET PROTECTION DEVICE, TYPE II	04/07/2020
E-15	SILT FENCE	04/07/2020
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/1995
E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	08/08/1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/1995
E-146	REGULATORY SIGN DETAILS	09/20/1995
E-173	PULL BOXES AND JUNCTION BOXES	08/09/1995
E-175	POWER DROP STANCHIONS	06/08/2009
E-191	PAVEMENT MARKING DETAILS	02/01/1999
E-192	PAVEMENT MARKING DETAILS	10/12/2000
E-193	PAVEMENT MARKING DETAILS	08/18/1995
J-1	PROJECT AND BOUNDARY MARKERS	06/01/1994
T-1	TRAFFIC CONTROL GENERAL NOTES	04/25/2016
T-2	TRAFFIC SIGN GENERAL NOTES	04/07/2020
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08/06/2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/06/2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08/06/2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08/06/2012
T-40	DELINEATORS AND MILEPOSTS	01/02/2013
T-44	MILEMAKER DETAILS STATE AND TOWN HIGHWAY	04/09/2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01/02/2013
T-56	STANDARD SIGN PLACEMENT	10/26/2015
T-70	VERMONT REGULATORY SIGN DETAILS	04/25/2016
T-92	ROUTE MARKER FRAME DETAILS	10/26/2015
T-133	LIGHT POLE FOUNDATION DETAILS	07/25/2016
T-134	LIGHT POLE & TRANSFORMER BASE DETAILS	03/10/2017

TRAFFIC DATA

SECTION	AADT		DHV		%T		%D		ADTT		ESALS	
	2019	2040	2019	2040	2019	2040	2019	2040	2019	2040	(2019-2040)	(2019-2060)
VT ROUTE 67A	7050	8900	880'	1100'	5'	5'	51'	51'	350'	450'	TBD	TBD
RICE LANE	1940	2450	195'	245'	3'	3'	50'	50'	60'	75'	TBD	TBD
SILK ROAD	1300	1650	130'	165'	2'	2'	50'	50'	25'	35'	TBD	TBD
COLLEGE DRIVE	1200	1500	120'	150'	2'	2'	50'	50'	25'	30'	TBD	TBD
DESIGN SPEED: 40 MPH POSTED SPEED: 40 MPH												

*TO BE COORDINATED WITH VTRANS

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LIFE ESAL (DESIGN LANE)	TBD
DESIGN NUMBER OF GYRATIONS	TBD
PERFORMANCE GRADED ASPHALT BINDER	SEE SUBSECTION 490.03 (b)

PROJECT NAME: BENNINGTON
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65frm.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: S. SACCO
INDEX OF SHEETS

PLOT DATE: 11/6/2020
DRAWN BY: M. PEREZ
CHECKED BY: D. VERTIYEV
SHEET 2 OF 22

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
R.T.& I.	RIGHT, TITLE, AND INTEREST
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
□	BNDNS BOUND TO BE SET
⊙	IPNF IRON PIN FOUND
●	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT CODE	DESCRIPTION
⊕	APL BOUND APPARENT LOCATION
□	BM BENCHMARK
□	BND BOUND
⊠	CB CATCH BASIN
⊕	COMB COMBINATION POLE
⊠	DITHR DROP INLET THROATED DNC
⊕	EL ELECTRIC POWER POLE
○	FPOLE FLAGPOLE
○	GASFIL GAS FILLER
○	GP GUIDE POST
×	GSO GAS SHUT OFF
○	GUY GUY POLE
○	GUYW GUY WIRE
×	GV GATE VALVE
⊕	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
○	IP IRON PIN
○	IPIPE IRON PIPE
□	LI LIGHT - STREET OR YARD
⊕	MB MAILBOX
○	MH MANHOLE (MH)
□	MM MILE MARKER
□	PM PARKING METER
□	PMK PROJECT MARKER
○	POST POST STONE/WOOD
⊕	RRSIG RAILROAD SIGNAL
⊕	RRSL RAILROAD SWITCH LEVER
⊕	S TREE SOFTWOOD
⊕	SAT SATELLITE DISH
⊕	SHRUB SHRUB
⊕	SIGN SIGN
⊕	STUMP STUMP
⊕	TEL TELEPHONE POLE
○	TIE TIE
⊕	TSIGN SIGN W/DOUBLE POST
⊕	VCTRL CONTROL VERTICAL
○	WELL WELL
×	WSO WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —	UTILITY (GENERIC-UNKNOWN)
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEPHONE
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEPHONE
—	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — CZ — — —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△	TOP OF CUT SLOPE
○	TOE OF FILL SLOPE
⊗	STONE FILL
— — — — —	BOTTOM OF DITCH
— — — — —	CULVERT PROPOSED
— — — — —	STRUCTURE SUBSURFACE
PDF — — — PDF — — —	PROJECT DEMARCATION FENCE
BF — — — BF — — —	BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY LINE
—————	STATE BOUNDARY LINE
———/———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
———/———	PROPOSED STATE R.O.W.
———/———	STATE ROW (LIMITED ACCESS)
———/———	STATE ROW
———/———	TOWN ROW
— — — — —	PERMANENT EASEMENT LINE (P)
— — — — —	TEMPORARY EASEMENT LINE (T)
— — — — —	SURVEY LINE
P — — — P	PROPERTY LINE (P/L)
L — — — L	PROPERTY LINE (P/L)
SR — — — SR	SLOPE RIGHTS
6f — — — 6f	6F PROPERTY BOUNDARY
4f — — — 4f	4F PROPERTY BOUNDARY
HAZ — — — HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— — — — —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
— — — — —	DISTURBED AREAS REQUIRING RE-VEGETATION
— — — — —	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

— — — — —	WETLAND BOUNDARY
— — — — —	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
— — — — —	SOIL TYPE BOUNDARY
— — — — —	T&E THREATENED & ENDANGERED SPECIES
HAZ — — — HAZ	HAZARDOUS WASTE AREA
— — — — —	AG AGRICULTURAL LAND
— — — — —	HABITAT FISH & WILDLIFE HABITAT
— — — — —	FLOOD PLAIN FLOOD PLAIN
— — — — —	OHW ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— — — — —	USDA FOREST SERVICE LANDS
— — — — —	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

— — — — —	ARCH ARCHEOLOGICAL BOUNDARY
— — — — —	HISTORIC DIST HISTORIC DISTRICT BOUNDARY
— — — — —	HISTORIC HISTORIC AREA
(H)	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
— — — — —	FENCE (EXISTING)
— — — — —	FENCE WOOD POST
— — — — —	FENCE STEEL POST
— — — — —	GARDEN
— — — — —	ROAD GUARDRAIL
— — — — —	RAILROAD TRACKS
— — — — —	CULVERT (EXISTING)
— — — — —	STONE WALL
— — — — —	WALL
— — — — —	WOOD LINE
— — — — —	BRUSH LINE
— — — — —	HEDGE
— — — — —	BODY OF WATER EDGE
— — — — —	LEDGE EXPOSED

PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65legend.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CONVENTIONAL SYMBOLGY LEGEND SHEET

PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 3 OF 22

MATERIAL ITEM:	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 1/4"
SUBBASE (TOTAL DEPTH ALL LAYERS)	+/- 1"
SAND BORROW (TOTAL DEPTH ALL LAYERS)	+/- 1"

# TYPICAL SECTIONS

## VT ROUTE 67A & RICE LANE:

- 1-1/2" TYPE IVS - WEARING COURSE
- 2-1/2" TYPE IIS - INTERMEDIATE COURSE
- 2-1/2" TYPE IIS - BASE COURSE
- 24" SUBBASE OF DENSE GRADED CRUSHED STONE
- 18" SAND BORROW

## SILK ROAD & COLLEGE DRIVE:

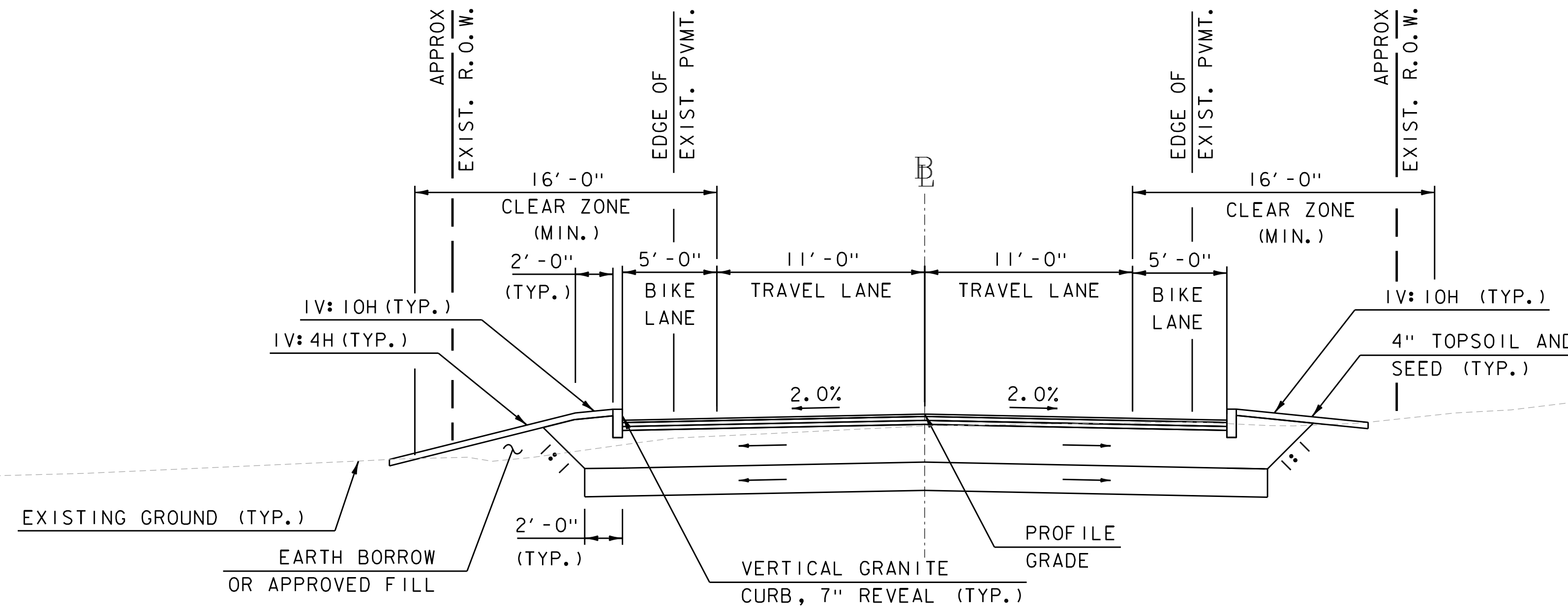
- 1-1/2" TYPE IIIS - WEARING COURSE
- 2-1/2" TYPE IIS - INTERMEDIATE COURSE
- 2-1/2" TYPE IIS - BASE COURSE
- 15" SUBBASE OF DENSE GRADED CRUSHED STONE
- 6" SAND BORROW

## SIDEWALK & SHARED USE PATH:

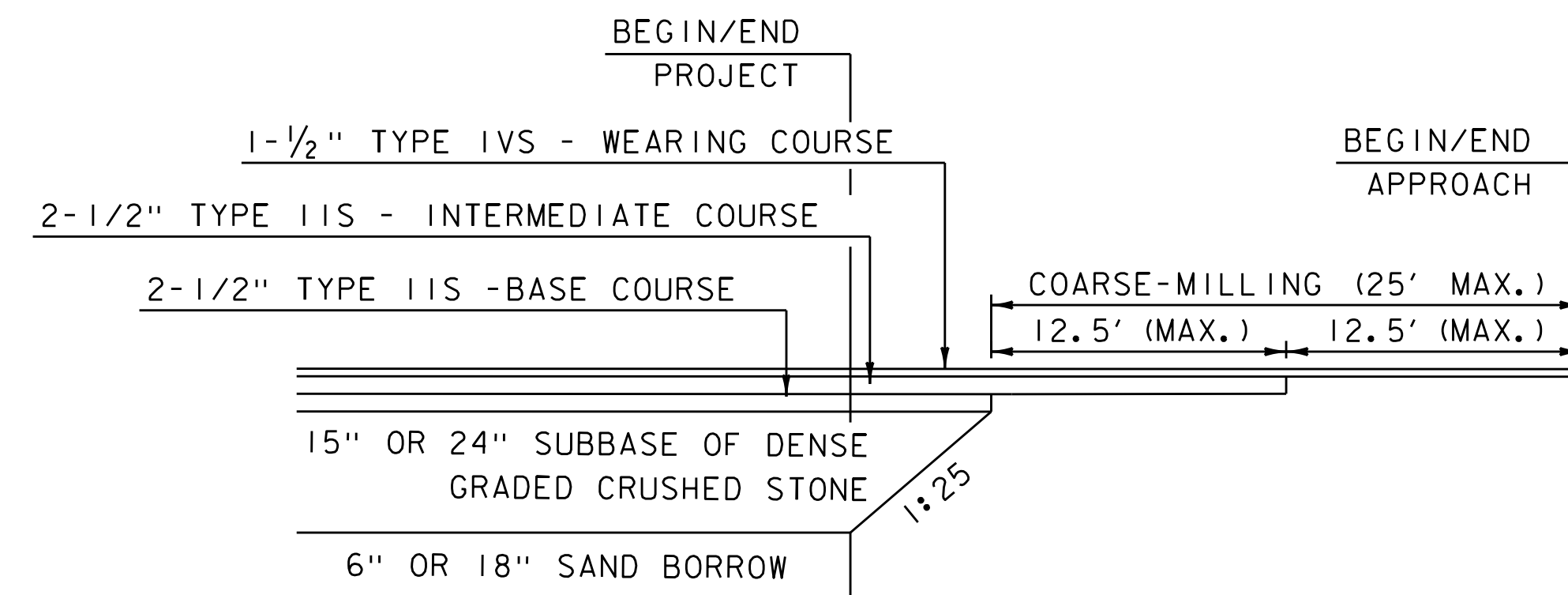
- 2" TYPE IVS BITUMINOUS CONCRETE PAVEMENT
- 8" SUBBASE OF DENSE GRADED CRUSHED STONE

## SIDEWALK & SHARED USE PATH RAMPS:

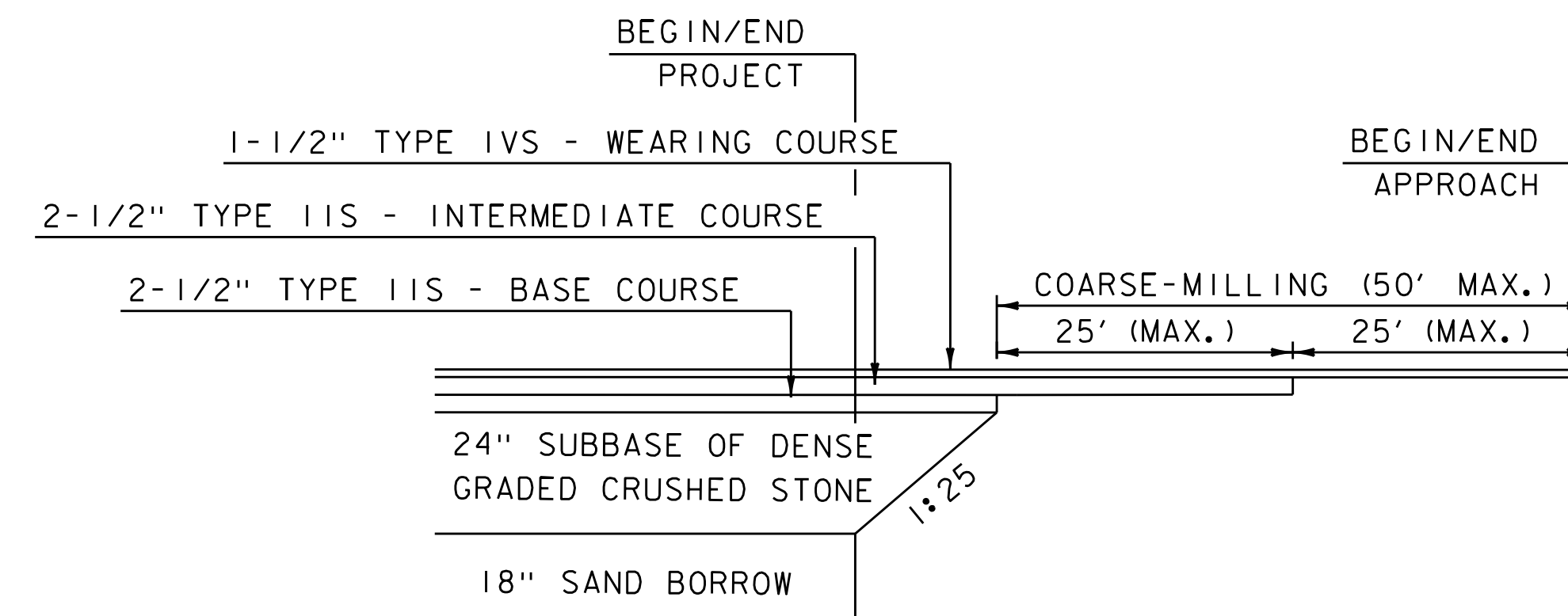
- 5" PORTLAND CEMENT CONCRETE
- 5" SUBBASE OF DENSE GRADED CRUSHED STONE



VT ROUTE 67A TYPICAL SECTION  
 STA. 53+10.00 - 60+00.00  
 NOT TO SCALE



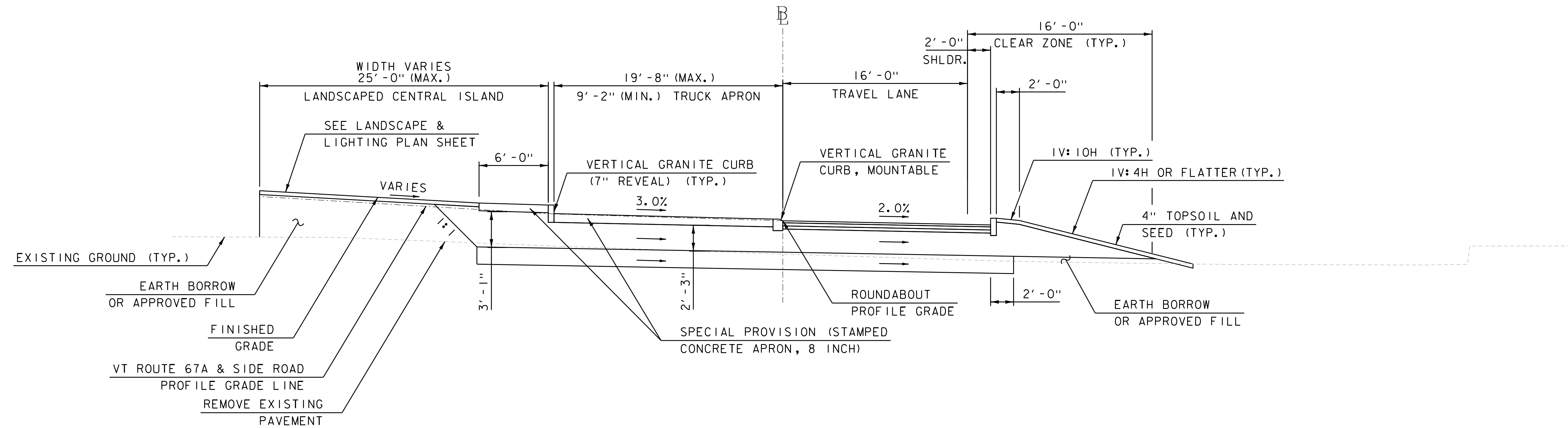
SIDE ROAD FULL DEPTH RECONSTRUCTION  
 MATERIAL TRANSITION DETAIL  
 NOT TO SCALE



VT ROUTE 67A FULL DEPTH RECONSTRUCTION  
 MATERIAL TRANSITION DETAIL  
 NOT TO SCALE

PROJECT NAME: BENNINGTON	PLOT DATE: 11/6/2020
PROJECT NUMBER: STP 1000(23)	DRAWN BY: M. PEREZ
FILE NAME: z18dl65+typ.dgn	CHECKED BY: D. VERTIYEV
PROJECT LEADER: E. ATKINS	SHEET 4 OF 22
DESIGNED BY: S. SACCO	
TYPICAL SECTIONS SHEET 1	

# TYPICAL SECTIONS



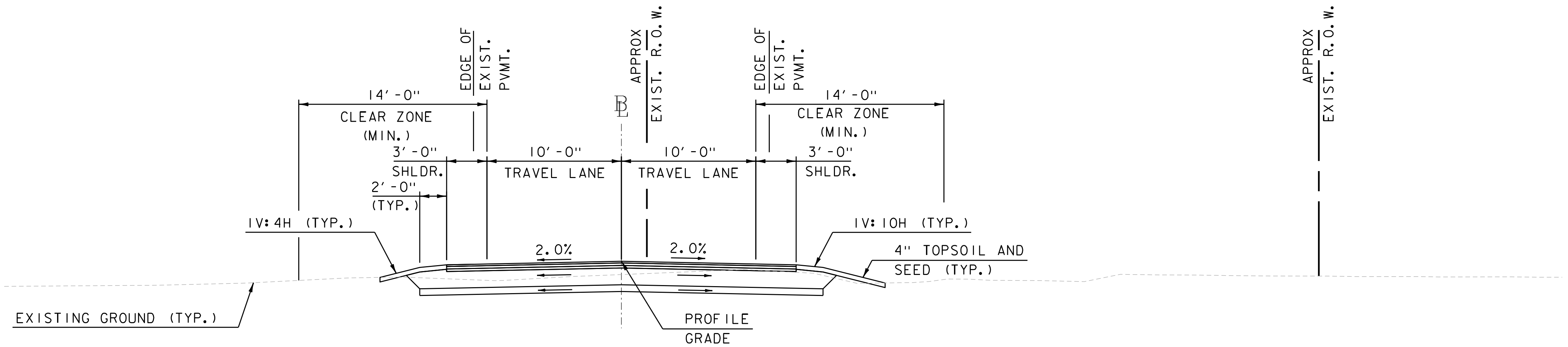
VT ROUTE 67A ROUNDABOUT  
TYPICAL SECTION  
NOT TO SCALE

PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65typ.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
TYPICAL SECTIONS SHEET 2

PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 5 OF 22

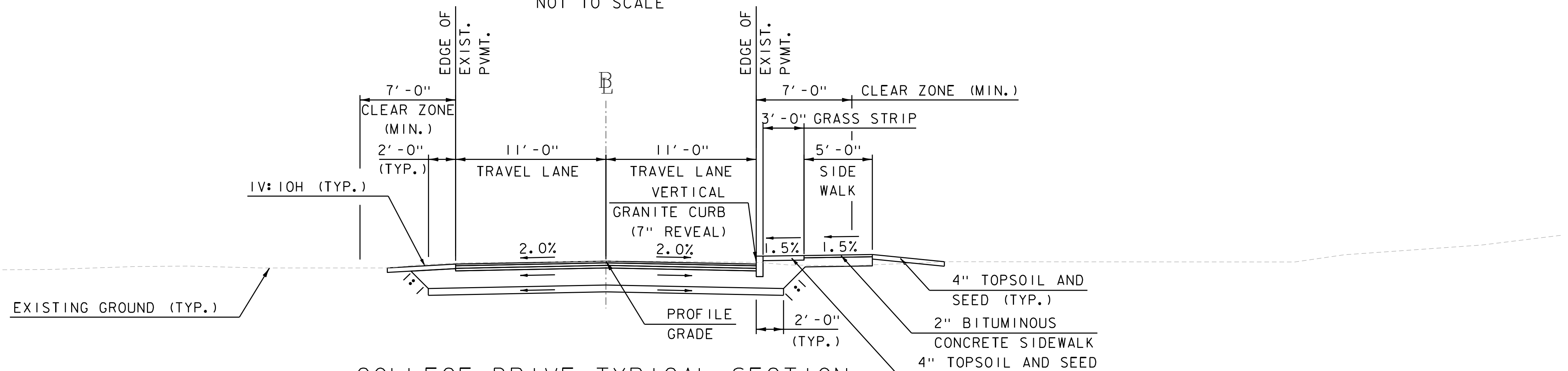
# TYPICAL SECTIONS



**SILK ROAD TYPICAL SECTION**

STA. 31+45.00-34+50.00

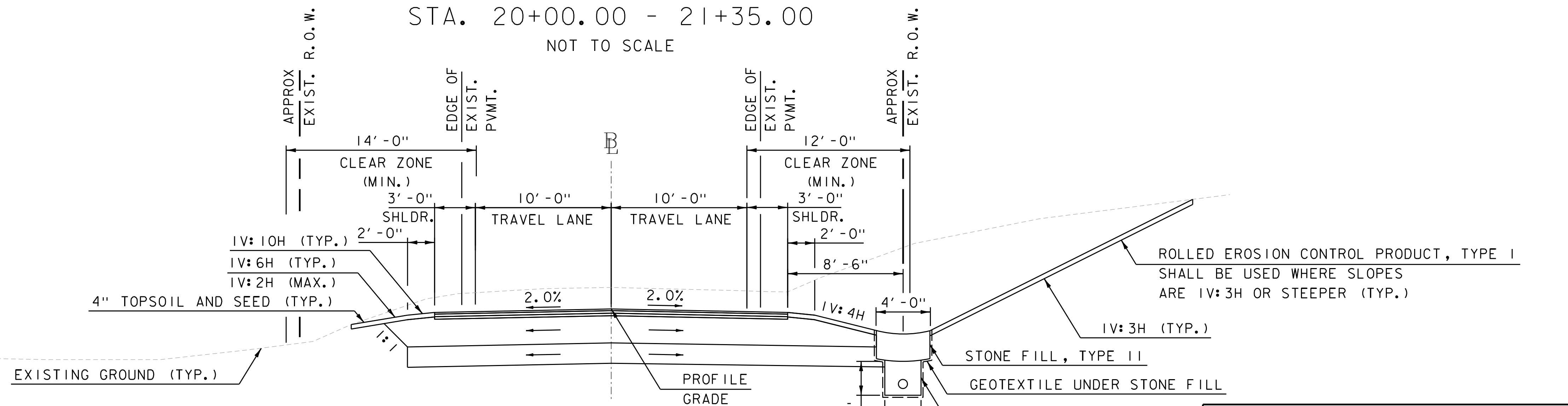
NOT TO SCALE



**COLLEGE DRIVE TYPICAL SECTION**

STA. 20+00.00 - 21+35.00

NOT TO SCALE



**RICE LANE TYPICAL SECTION**

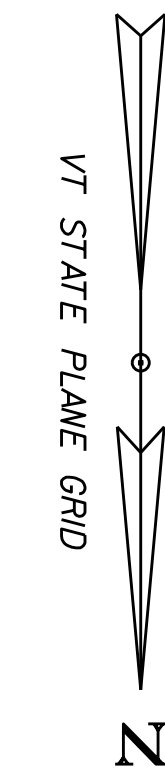
STA. 10+00.00-12+60.00

NOT TO SCALE

ROLLED EROSION CONTROL PRODUCT, TYPE I SHALL BE USED WHERE SLOPES ARE 1V:3H OR STEEPER (TYP.)



PROJECT NAME:	BENNINGTON	PLOT DATE:	11/6/2020
PROJECT NUMBER:	STP 1000(23)	DRAWN BY:	M. PEREZ
FILE NAME:	z18dl65+yp.dgn	DESIGNED BY:	S. SACCO
PROJECT LEADER:	E. ATKINS	CHECKED BY:	D. VERTIYEV
TYPICAL SECTIONS SHEET 3		SHEET	6 OF 22



VT ROUTE 67A CURVE (1)  
 DELTA = 6°56'39"  
 D = 2°51'53"  
 R = 2000.00'  
 T = 121.35'  
 L = 242.40'  
 E = 3.68'

END FULL DEPTH RECONSTRUCTION  
 BEGIN COARSE-MILLING  
 STA. 31+45.00

END COARSE-MILLING  
 LIMIT OF WORK  
 STA. 31+20.00

SILK ROAD CURVE (2)  
 DELTA = 50°03'18"  
 D = 28°38'52" (1)    D = 45°50'12" (2)  
 R = 200.00' (1)    R = 125.00' (2)  
 T = 79.60' (1)    T = 63.85' (2)  
 L = 67.29' (1)    L = 67.15' (2)  
 E = 15.26'

SILK ROAD CURVE (1)  
 DELTA = 47°30'24"  
 D = 28°38'52"  
 R = 200.00'  
 T = 88.02'  
 L = 165.83'  
 E = 18.51'

VT ROUTE 67A CURVE (6)  
 DELTA = 2°35'18"  
 D = 2°17'31"  
 R = 2500.00'  
 T = 56.48'  
 L = 112.93'  
 E = 0.64'

BEGIN APPROACH  
 END BENNINGTON STP 1000 (23)  
 STA. 60+00.00 (MM 1.136)

END APPROACH  
 STA. 61+00.00  
 (MM 1.155)

END APPROACH  
 BEGIN BENNINGTON STP 1000 (23)  
 STA. 53+10.00 (MM 1.006)

BEGIN APPROACH  
 STA. 52+10.00 (MM 0.987)

VT ROUTE 67A CURVE (2)  
 DELTA = 30°29'28"  
 D = 28°38'52"  
 R = 200.00'  
 T = 54.51'  
 L = 106.43'  
 E = 7.30'

VT ROUTE 67A CURVE (5)  
 DELTA = 7°51'52"  
 D = 11°27'33"  
 R = 500.00'  
 T = 34.37'  
 L = 68.63'  
 E = 1.18'

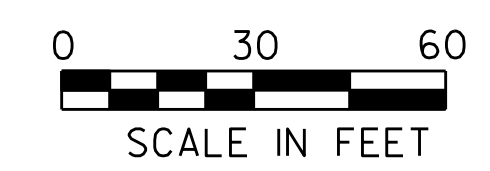
RICE LANE CURVE (1)  
 DELTA = 44°37'58"  
 D = 57°17'45"  
 R = 100.00'  
 T = 41.05'  
 L = 77.90'  
 E = 8.10'

RICE LANE CURVE (2)  
 DELTA = 28°42'20"  
 D = 16°22'13"  
 R = 350.00'  
 T = 89.56'  
 L = 175.35'  
 E = 11.28'

END FULL DEPTH RECONSTRUCTION  
 BEGIN COARSE-MILLING  
 STA. 21+35.00  
 END COARSE-MILLING  
 LIMIT OF WORK  
 STA. 21+45.00

COLLEGE DRIVE CURVE (1)  
 DELTA = 39°50'52"    T = 72.49'  
 D = 28°38'52"    L = 139.09'  
 R = 200.00'    E = 12.73'

END FULL DEPTH RECONSTRUCTION  
 BEGIN COARSE-MILLING  
 STA. 12+60.00  
 END COARSE-MILLING  
 LIMIT OF WORK  
 STA. 12+85.00



GREEN INTERNATIONAL AFFILIATES, INC.  
 CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: BENNINGTON	
PROJECT NUMBER: STP 1000(23)	
FILE NAME: z18d165algbdr.dgn	PLOT DATE: 11/6/2020
PROJECT LEADER: E. ATKINS	DRAWN BY: M. PEREZ
DESIGNED BY: S. SACCO	CHECKED BY: D. VERTIYEV
ALIGNMENT SHEET	SHEET 7 OF 22

CLEARING AND GRUBBING, INCLUDING  
INDIVIDUAL TREES AND STUMPS  
10+60.0 - 12+60.0  
20+75.0 - 21+35.0  
31+50.0 - 33+75.0  
51+60.0 - 60+50.0

COARSE-MILLING,  
BITUMINOUS PAVEMENT  
12+60.0 - 12+85.0  
21+35.0 - 21+45.0  
31+20.0 - 31+45.0  
52+10.0 - 52+60.0  
60+50.0 - 61+00.0

END FULL DEPTH RECONSTRUCTION  
BEGIN COARSE-MILLING  
STA. 31+45.00

RELOCATE UTILITY  
POLE - BY OTHERS

HAND-PLACED BITUMINOUS  
CONCRETE MATERIAL, DRIVES  
31+35.0 LT 52+85.0 RT  
32+95.0 RT 55+35.0 RT

CHANGING ELEVATION OF SEWER  
MANHOLES  
32+36.6 LT

UNDERDRAIN PIPE, 8 INCHES  
10+67.0 RT - 12+50.0 RT

STONE FILL, TYPE II  
10+67.0 RT - 12+50.0 RT

VERTICAL GRANITE CURB  
0+00.0 - 4+69.1 LT  
11+25.0 LT - 21+20.0 RT  
20+59.9 - 21+10.6 LT & RT  
21+20.0 LT - 59+20.0 RT  
33+40.6 - 33+89.4 LT & RT  
33+70.0 LT - 59+20.0 LT  
53+00.0 LT - 33+20.0 RT  
53+00.0 RT - 55+20.0 RT  
55+55.0 RT - 11+25.0 RT  
54+75.0 - 55+84.3 LT & RT  
58+03.8 - 59+15.1 LT & RT

VERTICAL GRANITE  
CURB, MOUNTABLE  
0+00.0 - 4+69.1  
10+55.6 - 11+07.1 LT & RT

PORTLAND CEMENT CONCRETE  
SIDEWALK, 5 INCH  
20+88.4 - 20+98.4 LT & RT  
32+57.4 - 32+68.8 LT & RT

PORTLAND CEMENT CONCRETE  
SIDEWALK, 5 INCH (CONT.)  
58+25.9 - 58+39.9 LT & RT

BITUMINOUS CONCRETE SIDEWALK  
20+94.0 RT - 21+45.0 RT  
20+99.6 LT - 59+25.6 RT  
32+62.3 RT - 32+62.3 RT  
32+62.1 LT - 58+32.50 LT

DETECTABLE WARNING SURFACE  
58+32.8 RT 20+99.8 LT  
58+32.8 RT 20+93.0 LT  
58+31.0 LT 20+92.9 RT  
58+32.6 LT 20+94.7 RT  
20+90.0 RT 21+45.0 RT  
59+26.4 LT 32+62.0 LT

REMOVAL OF EXISTING FENCE  
57+03.0 LT - 57+69.0 LT  
57+69.0 LT - 59+07.0 LT

ADJUST ELEVATION OF VALVE BOX  
33+77.4 RT 33+99.4 RT  
33+98.1 RT 34+04.5 RT

DUCTILE IRON WATER  
PIPE, CEMENT-LINED  
32+70.0 LT - 32+75.0 LT (6")  
58+70.0 LT - 59+05.0 LT (8")

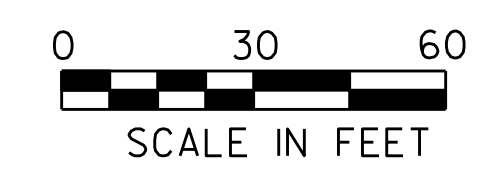
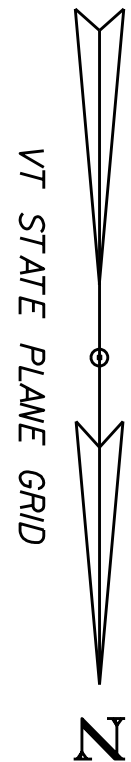
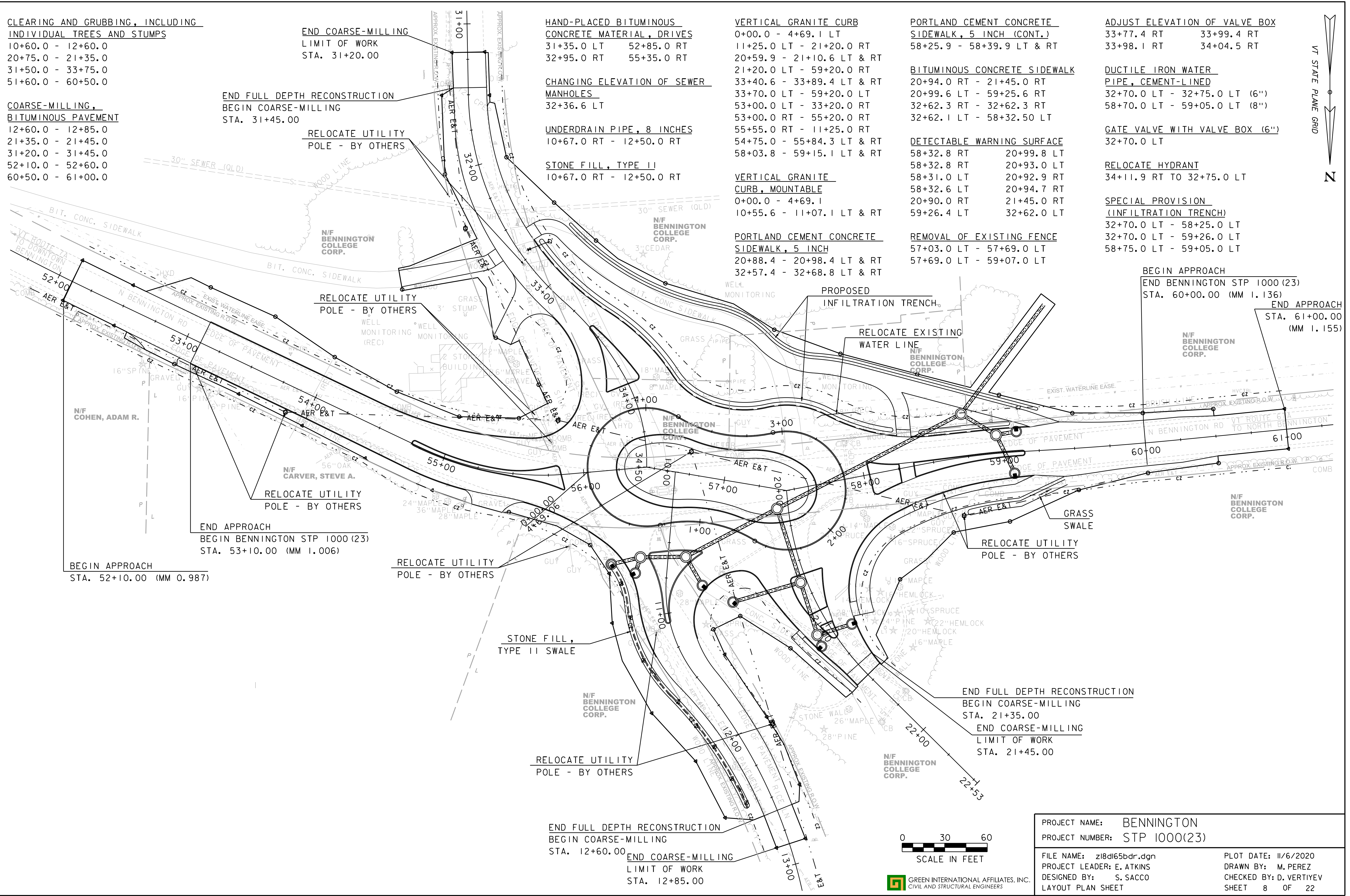
GATE VALVE WITH VALVE BOX (6")  
32+70.0 LT

RELOCATE HYDRANT  
34+11.9 RT TO 32+75.0 LT

SPECIAL PROVISION  
(INFILTRATION TRENCH)  
32+70.0 LT - 58+25.0 LT  
32+70.0 LT - 59+26.0 LT  
58+75.0 LT - 59+05.0 LT

BEGIN APPROACH  
END BENNINGTON STP 1000 (23)  
STA. 60+00.00 (MM 1.136)

END APPROACH  
STA. 61+00.00  
(MM 1.155)

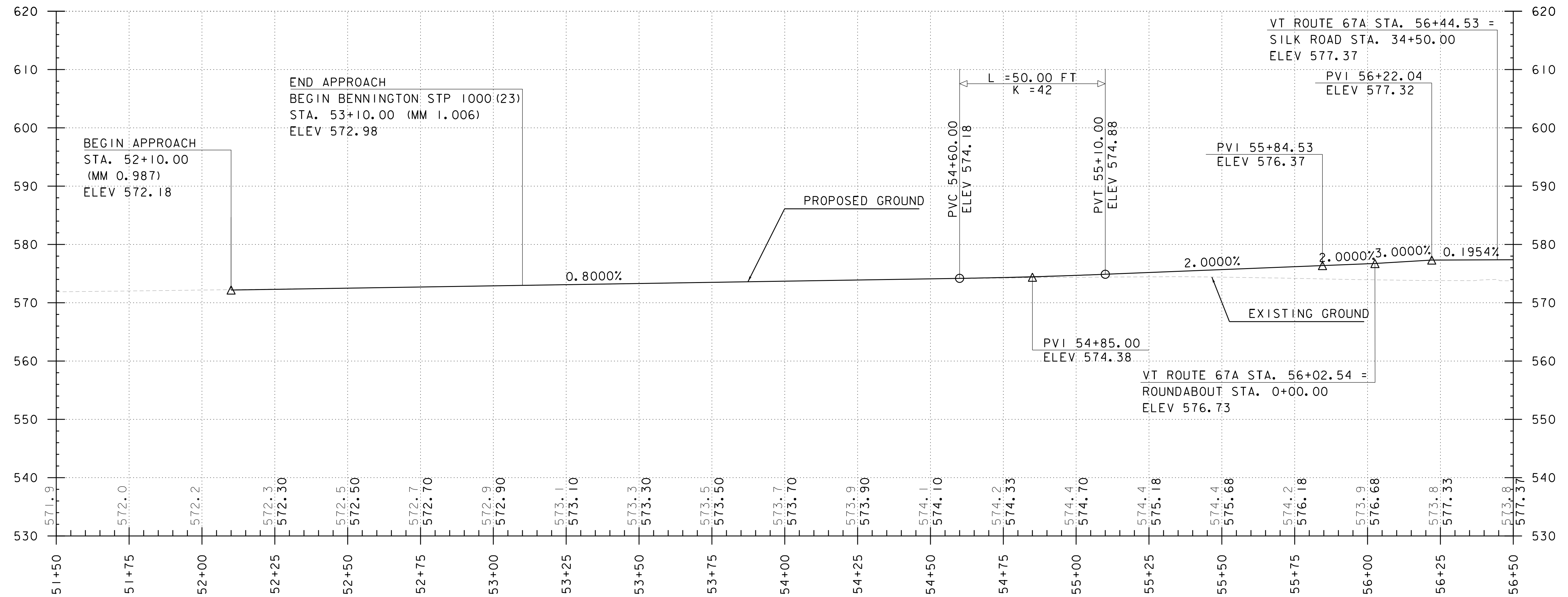


GREEN INTERNATIONAL AFFILIATES, INC.  
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME:	BENNINGTON	PLOT DATE:	11/6/2020
PROJECT NUMBER:	STP 1000(23)	DRAWN BY:	M. PEREZ
FILE NAME:	z18d165bdr.dgn	CHECKED BY:	D. VERTIYEV
PROJECT LEADER:	E. ATKINS	SHEET	8 OF 22
DESIGNED BY:	S. SACCO		
LAYOUT PLAN SHEET			



# VT ROUTE 67A



THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

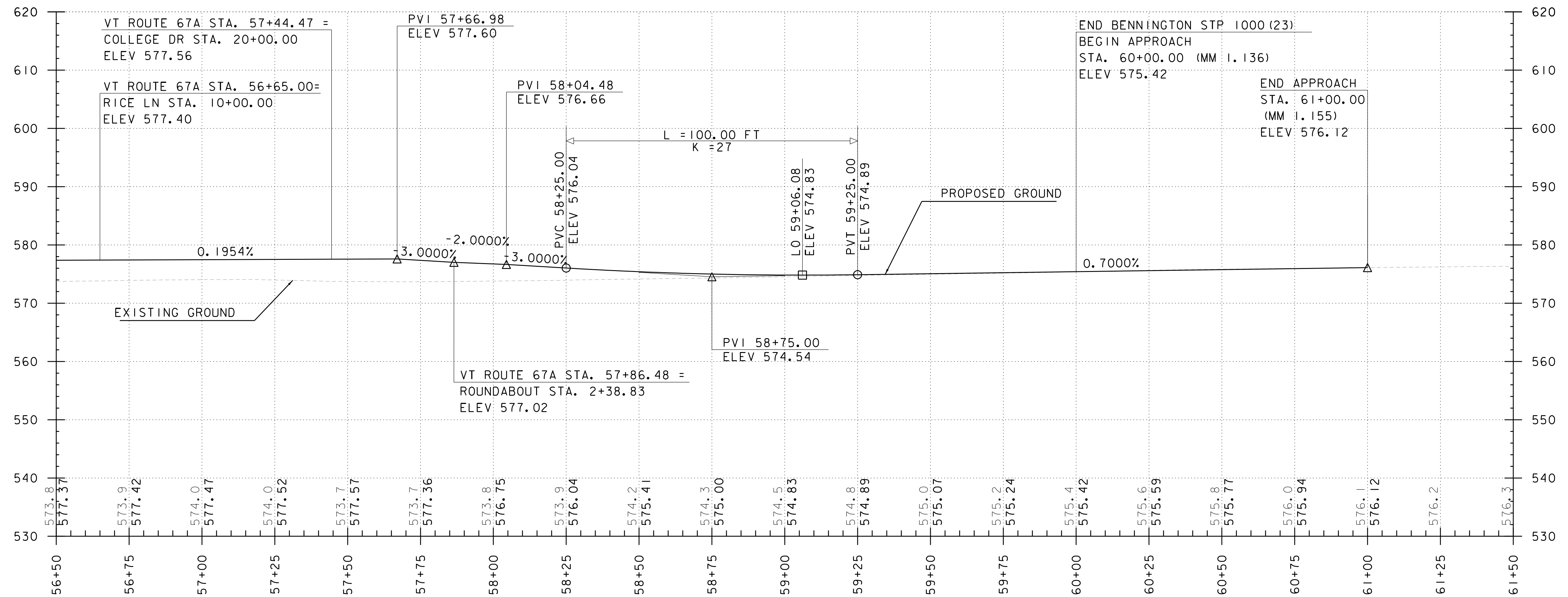
NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: STP 1000(23)  
 FILE NAME: z18dl65xsl.dgn  
 PROJECT LEADER: E. ATKINS  
 DESIGNED BY: S. SACCO  
 PROFILE SHEET 1

PLOT DATE: 11/6/2020  
 DRAWN BY: M. PEREZ  
 CHECKED BY: D. VERTIYEV  
 SHEET 9 OF 22

# VT ROUTE 67A



THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

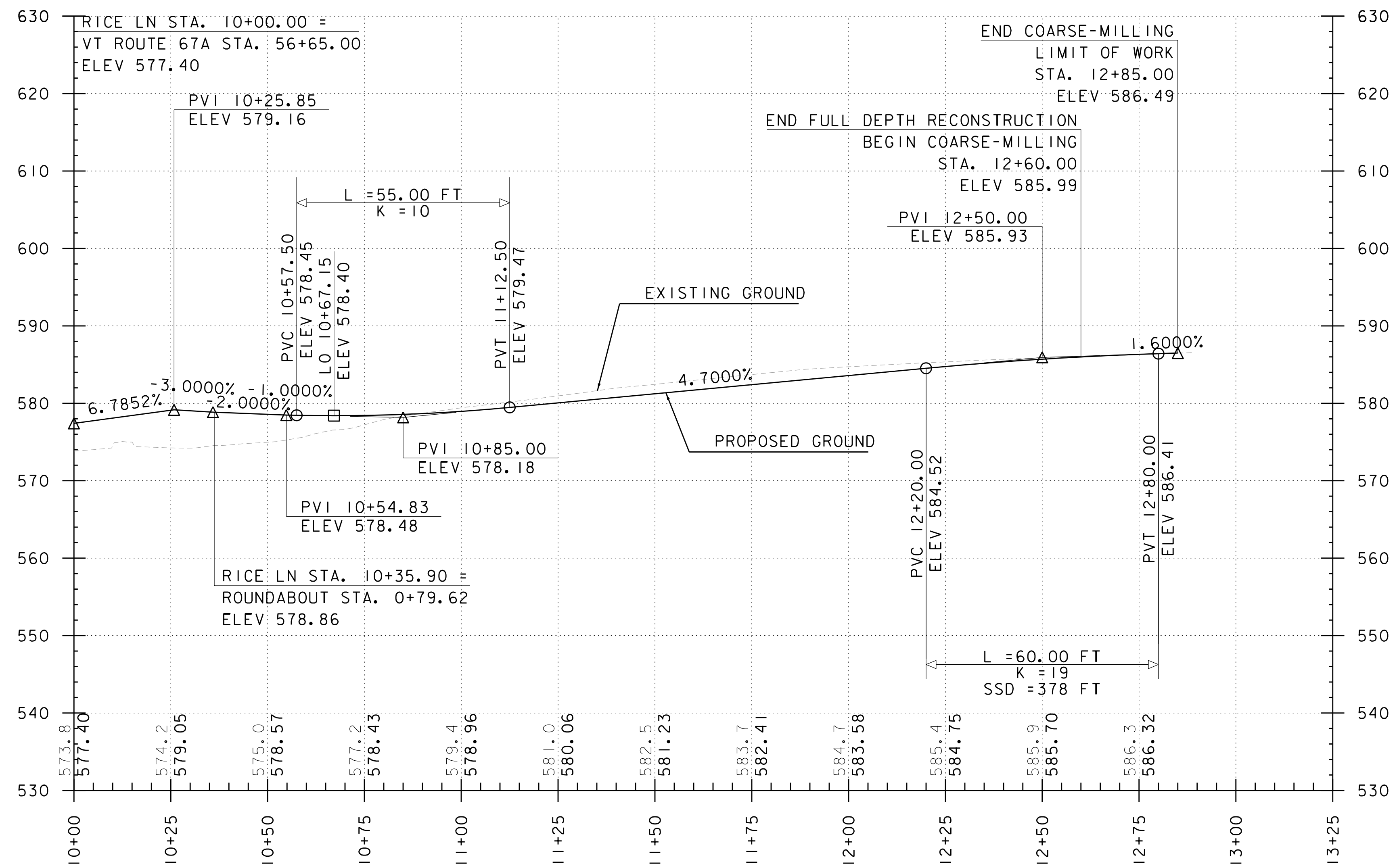
NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: STP 1000(23)  
 FILE NAME: z18dl65xsl.dgn  
 PROJECT LEADER: E. ATKINS  
 DESIGNED BY: S. SACCO  
 PROFILE SHEET 2

PLOT DATE: 11/6/2020  
 DRAWN BY: M. PEREZ  
 CHECKED BY: D. VERTIYEV  
 SHEET 10 OF 22

# RICE LN



THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

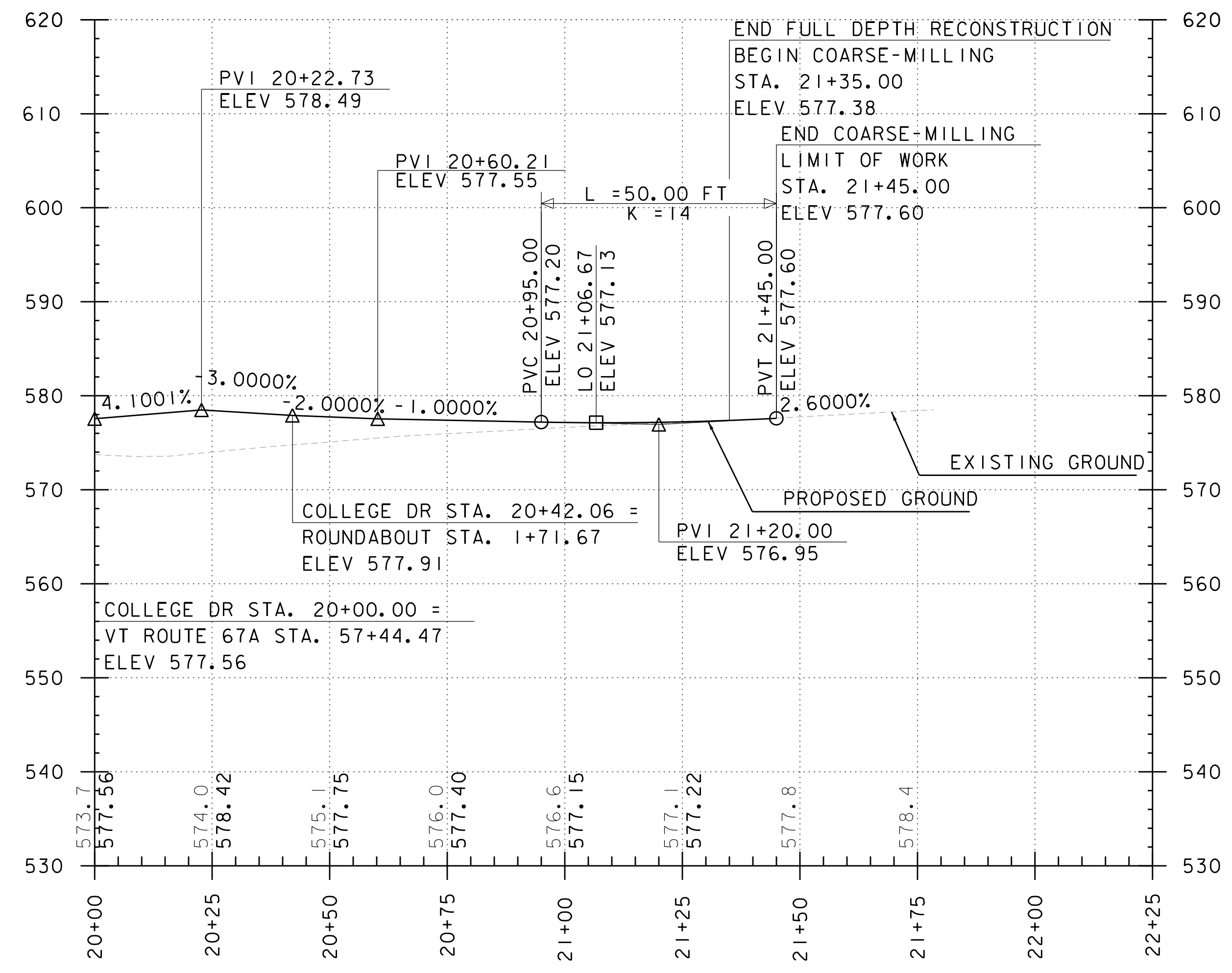
NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: STP 1000(23)  
 FILE NAME: z18dl65xsl.dgn  
 PROJECT LEADER: E. ATKINS  
 DESIGNED BY: S. SACCO  
 PROFILE SHEET 3

PLOT DATE: 11/6/2020  
 DRAWN BY: M. PEREZ  
 CHECKED BY: D. VERTIYEV  
 SHEET 11 OF 22

# COLLEGE DR



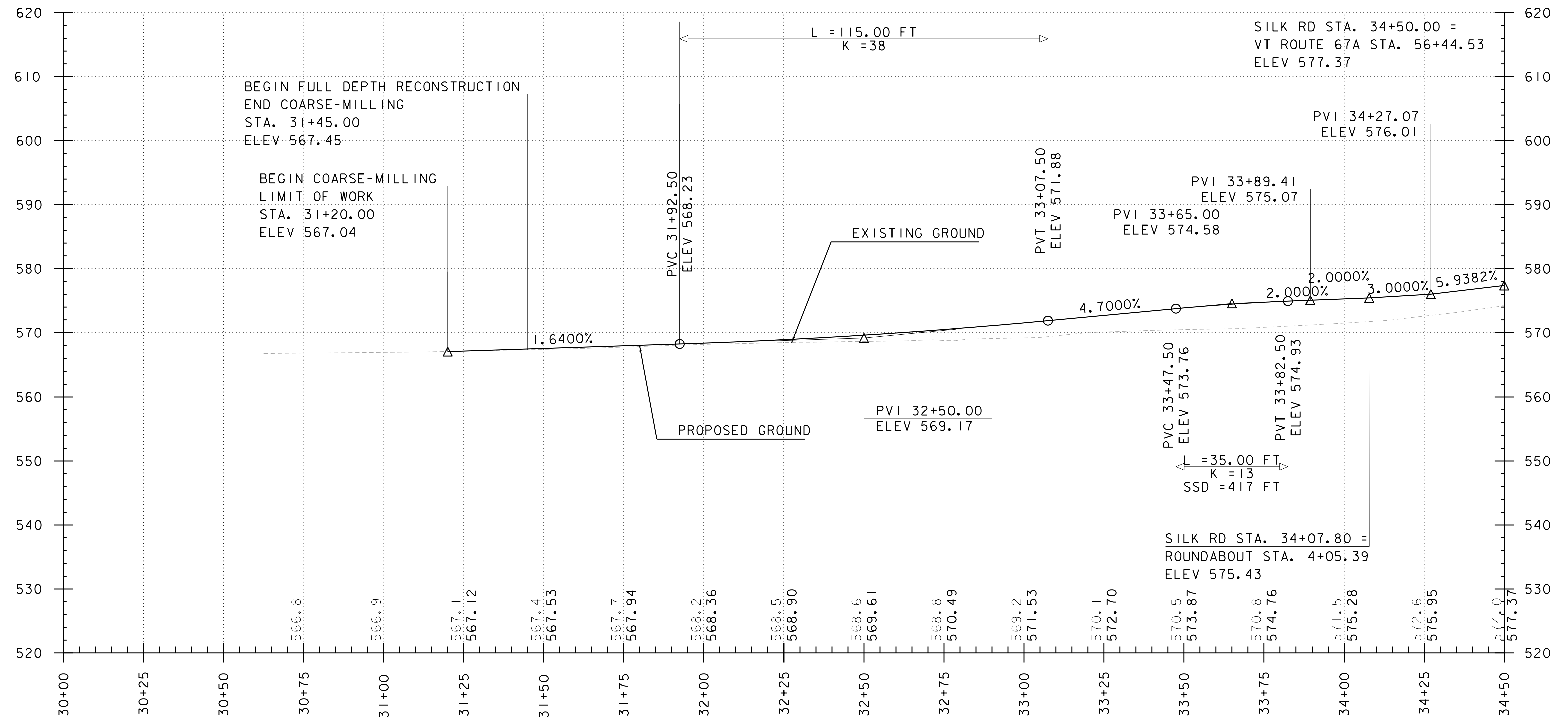
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.



PROJECT NAME:	BENNINGTON	PLOT DATE:	11/6/2020
PROJECT NUMBER:	STP 1000(23)	DRAWN BY:	M. PEREZ
FILE NAME:	z18dl65xsl.dgn	CHECKED BY:	D. VERTIYEV
PROJECT LEADER:	E. ATKINS	SHEET	12 OF 22
DESIGNED BY:	S. SACCO	PROFILE SHEET	4

# SILK RD



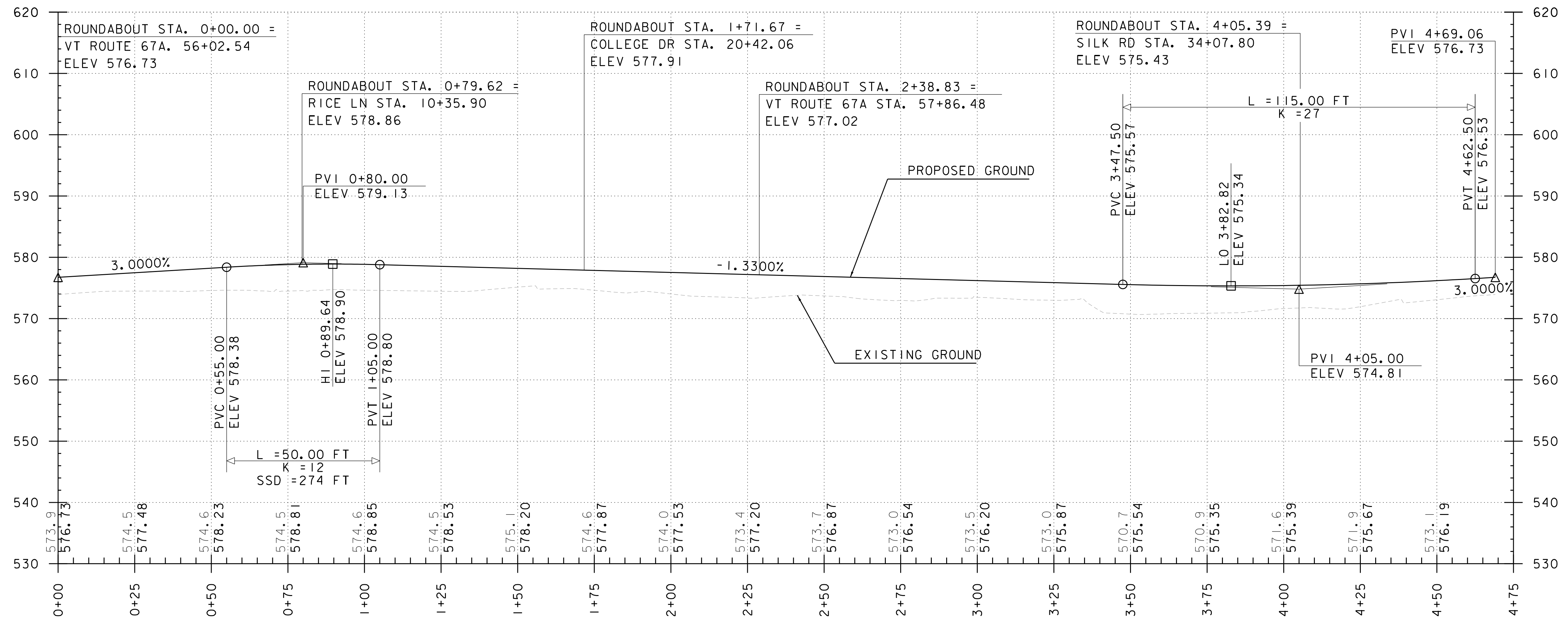
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.

PROJECT NAME:	BENNINGTON	PLOT DATE:	11/6/2020
PROJECT NUMBER:	STP 1000(23)	DRAWN BY:	M. PEREZ
FILE NAME:	z18dl65xsl.dgn	CHECKED BY:	D. VERTIYEV
PROJECT LEADER:	E. ATKINS	SHEET	13 OF 22
DESIGNED BY:	S. SACCO	PROFILE SHEET	5



# ROUNDBABOUT



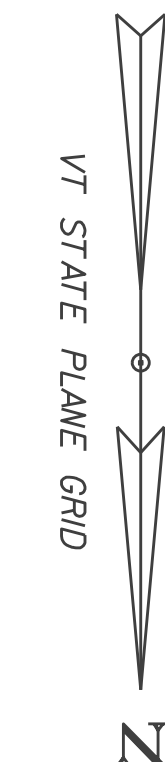
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND APPROXIMATE ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED PROFILE GRADES FOR THE NEW ALIGNMENT.

NOTE: ALL STATIONS AND ELEVATIONS ARE SHOWN IN FEET.



PROJECT NAME: BENNINGTON  
 PROJECT NUMBER: STP 1000(23)  
 FILE NAME: z18dl65xsl.dgn  
 PROJECT LEADER: E. ATKINS  
 DESIGNED BY: S. SACCO  
 PROFILE SHEET 6

PLOT DATE: 11/6/2020  
 DRAWN BY: M. PEREZ  
 CHECKED BY: D. VERTIYEV  
 SHEET 14 OF 22



END COARSE-MILLING  
LIMIT OF WORK  
STA. 31+20.00

END FULL DEPTH RECONSTRUCTION  
BEGIN COARSE-MILLING  
STA. 31+45.00

BEGIN APPROACH  
END BENNINGTON STP 1000 (23)  
STA. 60+00.00 (MM 1.136)

END APPROACH  
STA. 61+00.00  
(MM 1.155)

END APPROACH  
BEGIN BENNINGTON STP 1000 (23)  
STA. 53+10.00 (MM 1.006)

BEGIN APPROACH  
STA. 52+10.00 (MM 0.987)

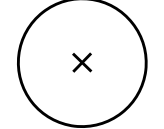
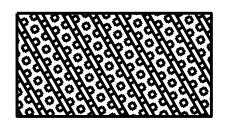
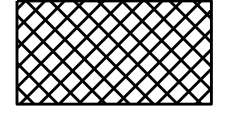
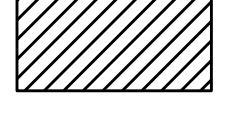
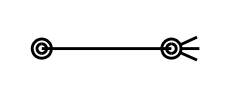
END FULL DEPTH RECONSTRUCTION  
BEGIN COARSE-MILLING  
STA. 21+35.00

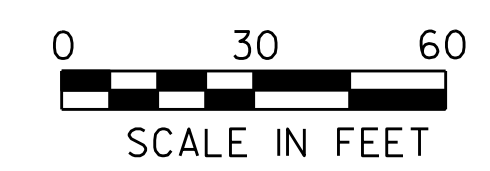
END COARSE-MILLING  
LIMIT OF WORK  
STA. 21+45.00

END FULL DEPTH RECONSTRUCTION  
BEGIN COARSE-MILLING  
STA. 12+60.00

END COARSE-MILLING  
LIMIT OF WORK  
STA. 12+85.00

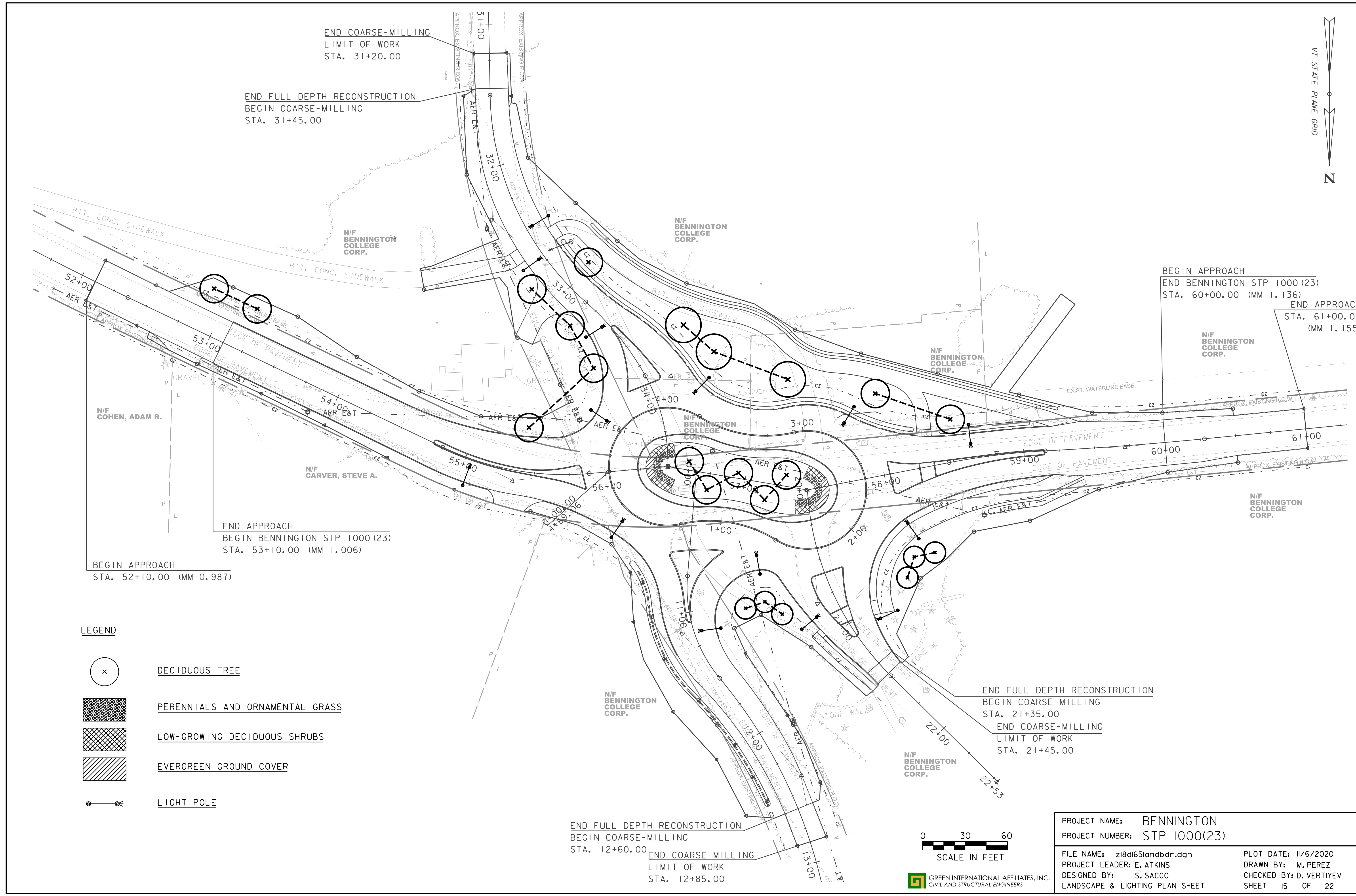
**LEGEND**

-  DECIDUOUS TREE
-  PERENNIALS AND ORNAMENTAL GRASS
-  LOW-GROWING DECIDUOUS SHRUBS
-  EVERGREEN GROUND COVER
-  LIGHT POLE



GREEN INTERNATIONAL AFFILIATES, INC.  
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: BENNINGTON	
PROJECT NUMBER: STP 1000(23)	
FILE NAME: z18d165landbdr.dgn	PLOT DATE: 11/6/2020
PROJECT LEADER: E. ATKINS	DRAWN BY: M. PEREZ
DESIGNED BY: S. SACCO	CHECKED BY: D. VERTIYEV
LANDSCAPE & LIGHTING PLAN SHEET	SHEET 15 OF 22



TEMPORARY 4 INCH WHITE LINE, PAINT  
 DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS)  
 STA. 10+50 - 12+85 (SOLID LT & RT)  
 STA. 20+50 - 21+60 (SOLID LT & RT)  
 STA. 31+20 - 34+00 (SOLID LT & RT)  
 STA. 52+00 - 56+00 (SOLID LT & RT)  
 STA. 56+18 - 56+46 (SOLID LT)  
 STA. 56+37 - 57+00 (SOLID RT)  
 STA. 56+53 - 58+00 (SOLID LT)  
 STA. 57+44 - 57+62 (SOLID RT)  
 STA. 58+00 - 61+00 (SOLID LT & RT)  
 STA. 55+87 (SOLID LT & RT)  
 STA. 58+02 (SOLID LT & RT)

REMOVING SIGNS  
 AS SHOWN - 39

END COARSE-MILLING  
 LIMIT OF WORK  
 STA. 31+20.00

END FULL DEPTH RECONSTRUCTION  
 BEGIN COARSE-MILLING  
 STA. 31+45.00

R&R RECTANGULAR RAPID  
 FLASH BEACON (RRFB)  
 FROM STA 56+61

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 DURABLE 4 INCH YELLOW LINE,  
 (SEE OPTION ITEMS)

(ALL LINES WILL INCLUDE EDGE LINE BREAKS)  
 STA. 10+50 - 11+25 (SOLID LT & RT)  
 STA. 20+56 - 21+60 (SOLID LT & RT)  
 STA. 31+20 - 33+86 (SOLID LT & RT)  
 STA. 52+10 - 55+90 (SOLID LT & RT)  
 STA. 58+00 - 61+00 (SOLID LT & RT)

TEMPORARY 8 INCH WHITE LINE, PAINT  
 DURABLE 8 INCH WHITE LINE,  
 (SEE OPTION ITEMS)

(ALL LINES WILL INCLUDE EDGE LINE BREAKS)  
 STA. 54+85 - 55+61 (SOLID LT)  
 STA. 57+96 - 58+27 (SOLID LT)

TEMPORARY 8 INCH YELLOW LINE, PAINT  
 DURABLE 8 INCH YELLOW LINE,  
 (SEE OPTION ITEMS)

STA. N 33+27 - 33+41 (GORE)  
 STA. N 54+09 - 54+79 (GORE)  
 STA. N 59+16 - 59+90 (GORE)

TEMPORARY 12 INCH WHITE LINE, PAINT  
 DURABLE 12 INCH WHITE LINE,  
 (SEE OPTION ITEMS)

STA. 55+99 - 56+18 (DASHED RT)  
 STA. 55+90 - 56+04 (DASHED LT)  
 STA. 57+00 - 57+29 (DASHED RT)  
 STA. 57+88 - 58+01 (DASHED RT)  
 STA. 57+62 - 57+88 (DASHED LT)

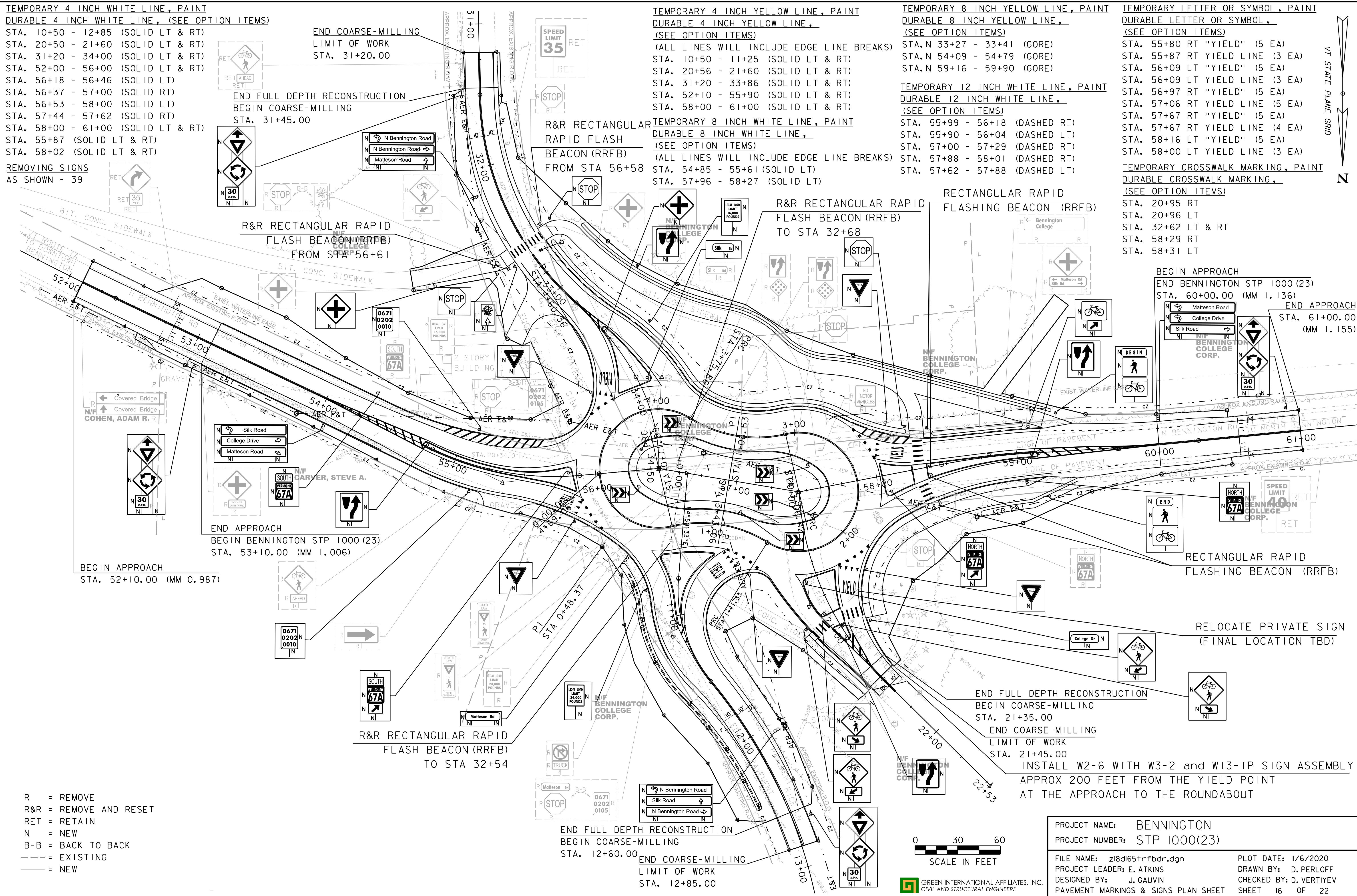
TEMPORARY LETTER OR SYMBOL, PAINT  
 DURABLE LETTER OR SYMBOL,  
 (SEE OPTION ITEMS)

STA. 55+80 RT "YIELD" (5 EA)  
 STA. 55+87 RT YIELD LINE (3 EA)  
 STA. 56+09 LT "YIELD" (5 EA)  
 STA. 56+09 LT YIELD LINE (3 EA)  
 STA. 56+97 RT "YIELD" (5 EA)  
 STA. 57+06 RT YIELD LINE (5 EA)  
 STA. 57+67 RT "YIELD" (5 EA)  
 STA. 57+67 RT YIELD LINE (4 EA)  
 STA. 58+16 LT "YIELD" (5 EA)  
 STA. 58+00 LT YIELD LINE (3 EA)

TEMPORARY CROSSWALK MARKING, PAINT  
 DURABLE CROSSWALK MARKING,  
 (SEE OPTION ITEMS)

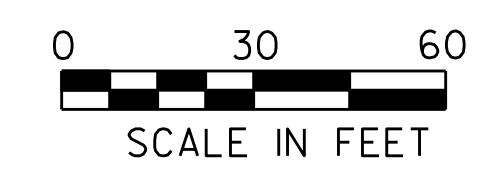
STA. 20+95 RT  
 STA. 20+96 LT  
 STA. 32+62 LT & RT  
 STA. 58+29 RT  
 STA. 58+31 LT

BEGIN APPROACH  
 END BENNINGTON STP 1000 (23)  
 STA. 60+00.00 (MM 1.136)  
 END APPROACH  
 STA. 61+00.00 (MM 1.155)



R = REMOVE  
 R&R = REMOVE AND RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 --- = EXISTING  
 ——— = NEW

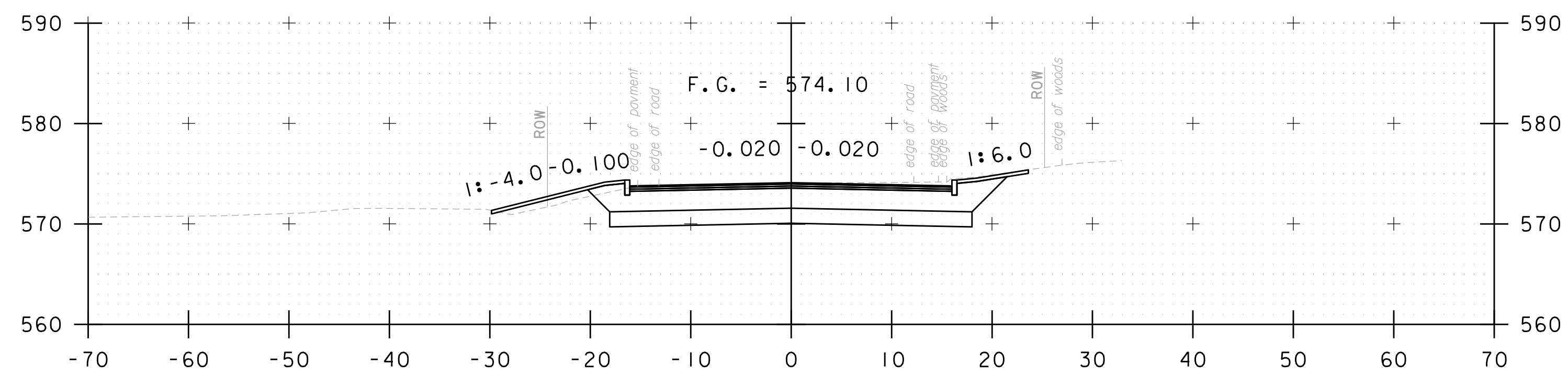
END FULL DEPTH RECONSTRUCTION  
 BEGIN COARSE-MILLING  
 STA. 12+60.00  
 END COARSE-MILLING  
 LIMIT OF WORK  
 STA. 12+85.00



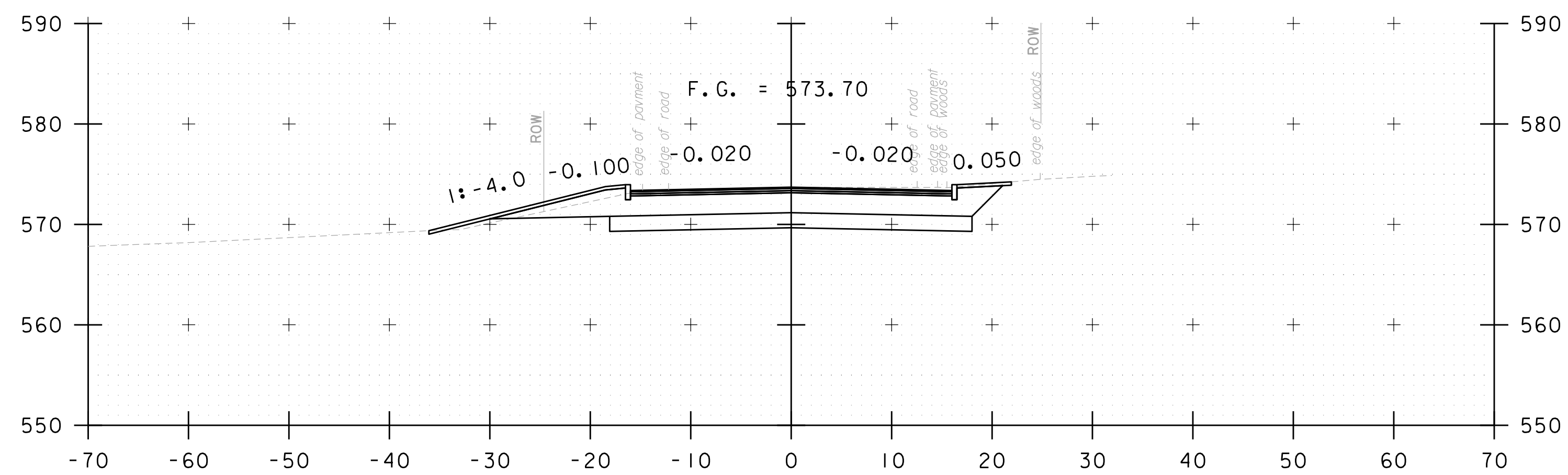
PROJECT NAME:	BENNINGTON	FILE NAME:	z18d165tr fbdr.dgn	PLOT DATE:	11/6/2020
PROJECT NUMBER:	STP 1000(23)	PROJECT LEADER:	E. ATKINS	DRAWN BY:	D. PERLOFF
		DESIGNED BY:	J. GAUVIN	CHECKED BY:	D. VERTIYEV
		PAVEMENT MARKINGS & SIGNS PLAN SHEET		SHEET	16 OF 22

GREEN INTERNATIONAL AFFILIATES, INC.  
 CIVIL AND STRUCTURAL ENGINEERS

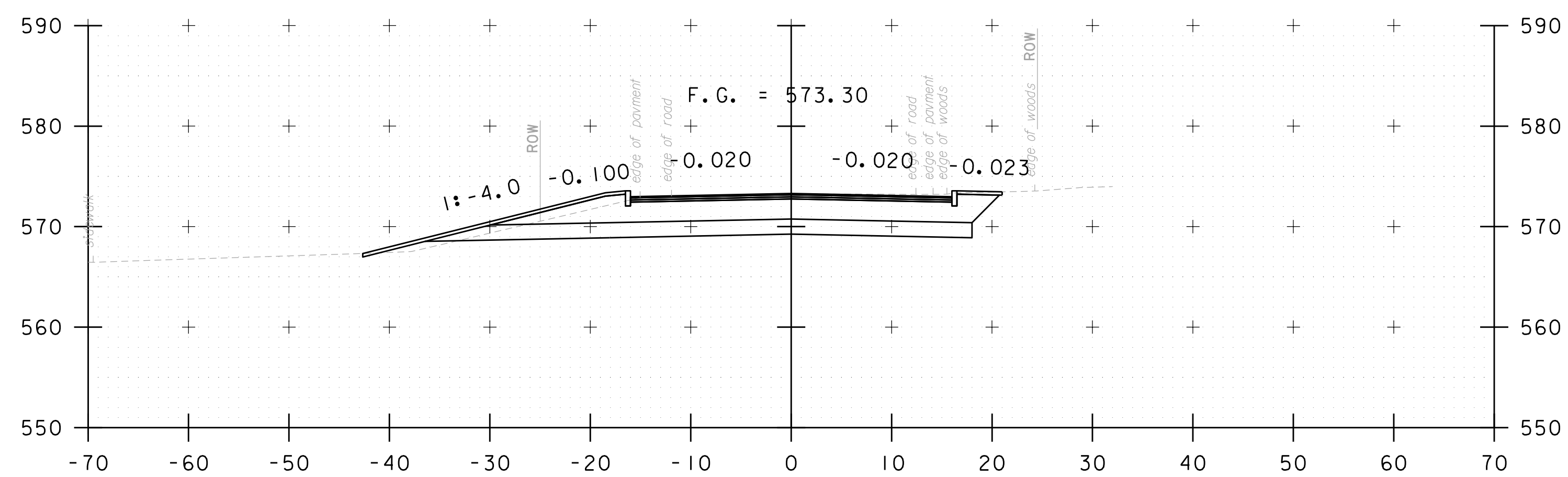




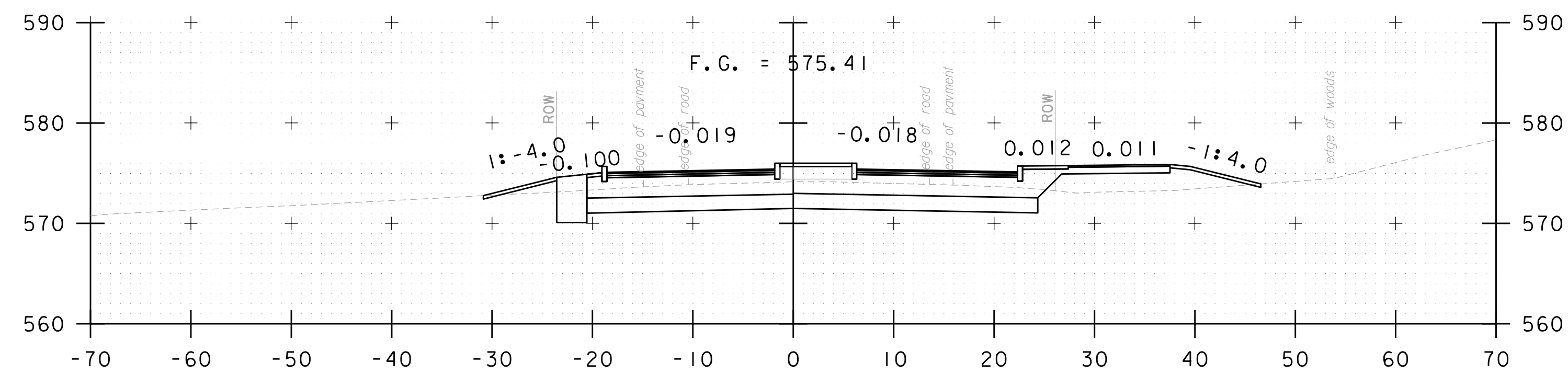
54+50



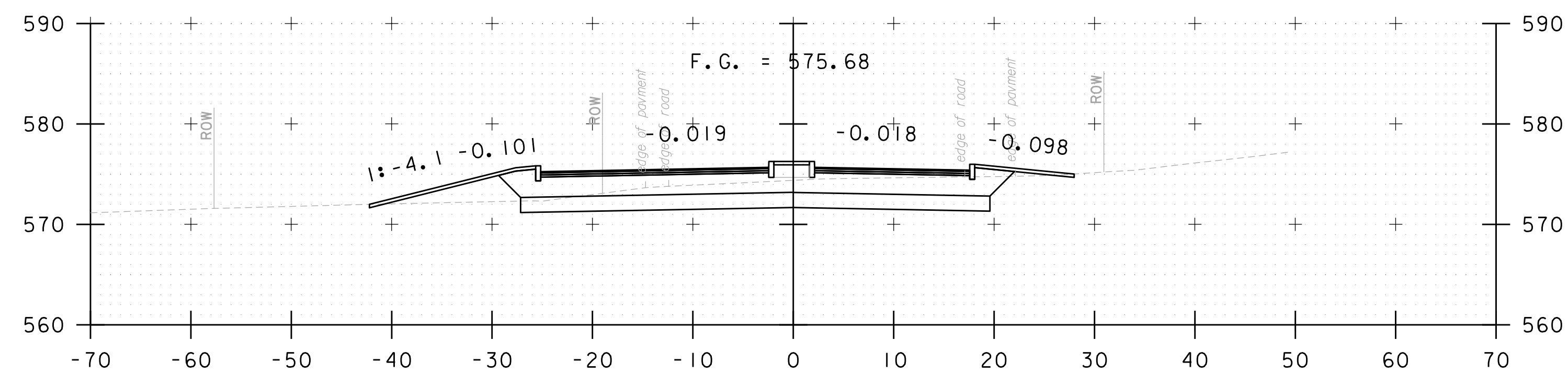
54+00



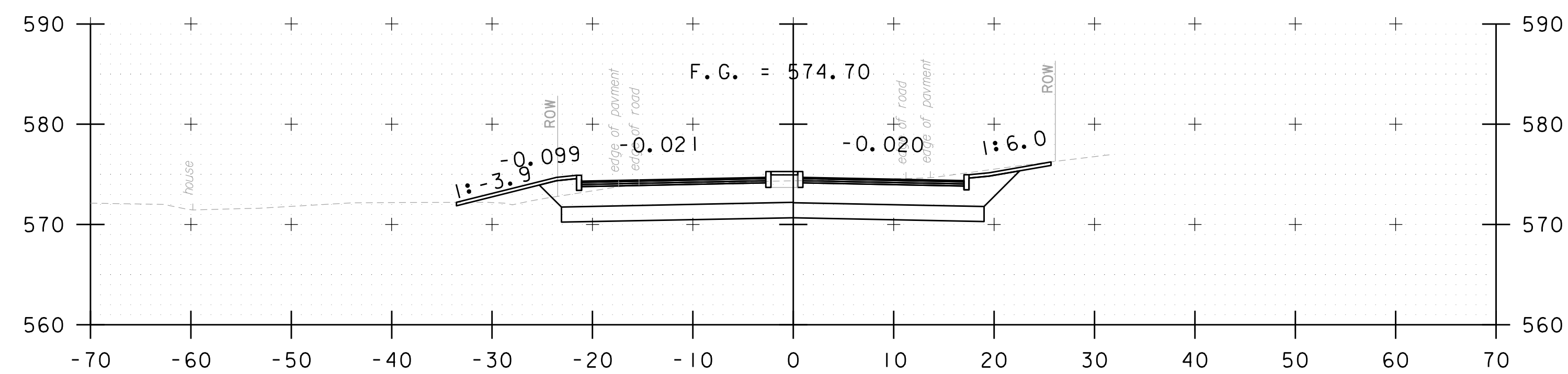
53+50



58+50



55+50



55+00

STA. 53+50 TO STA. 58+50

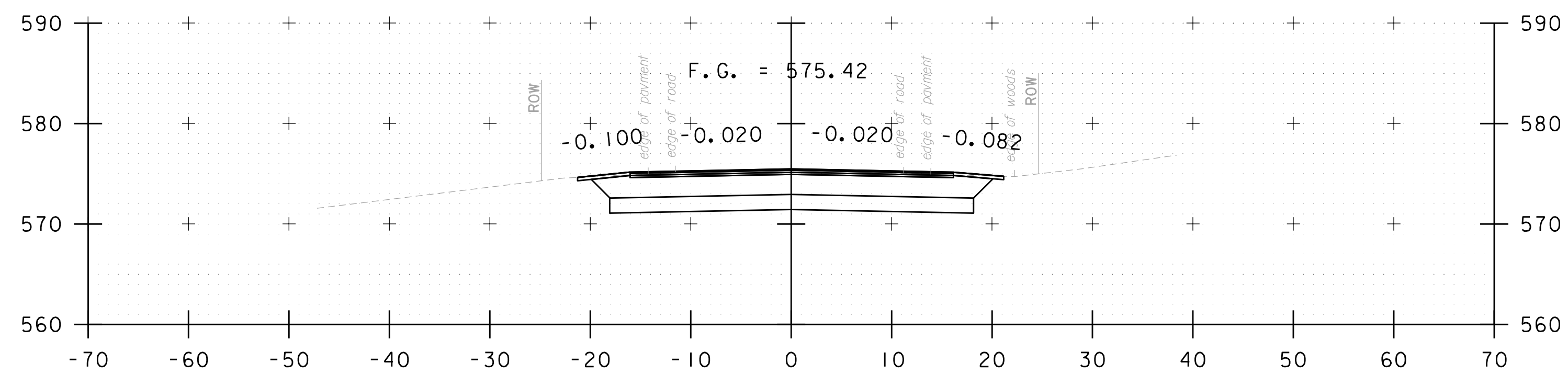
NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES



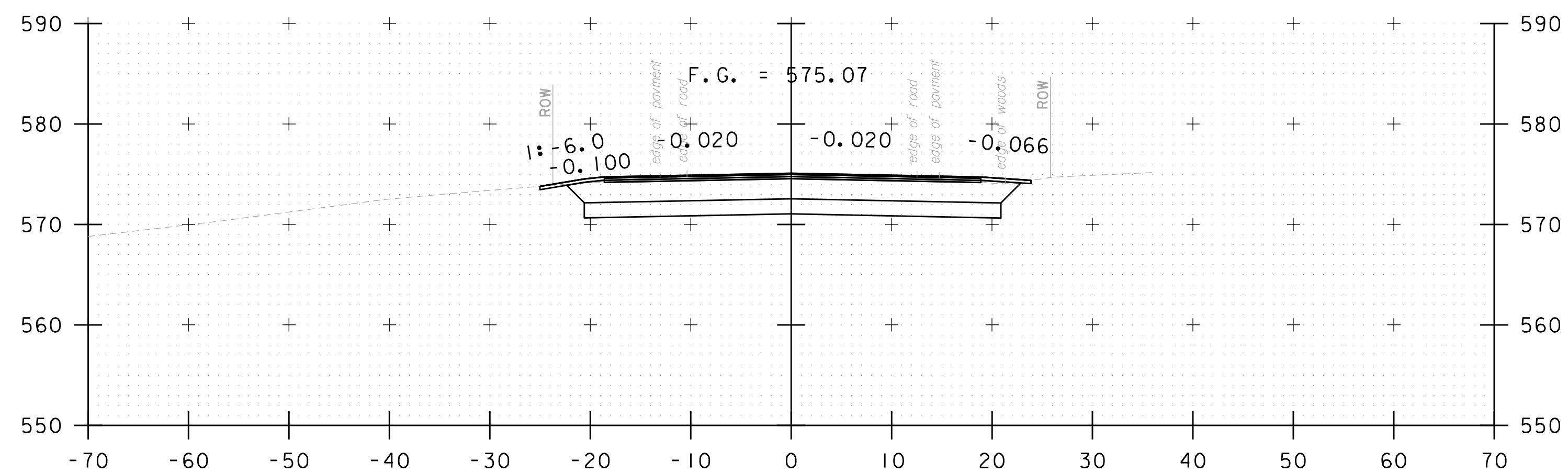
PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 1

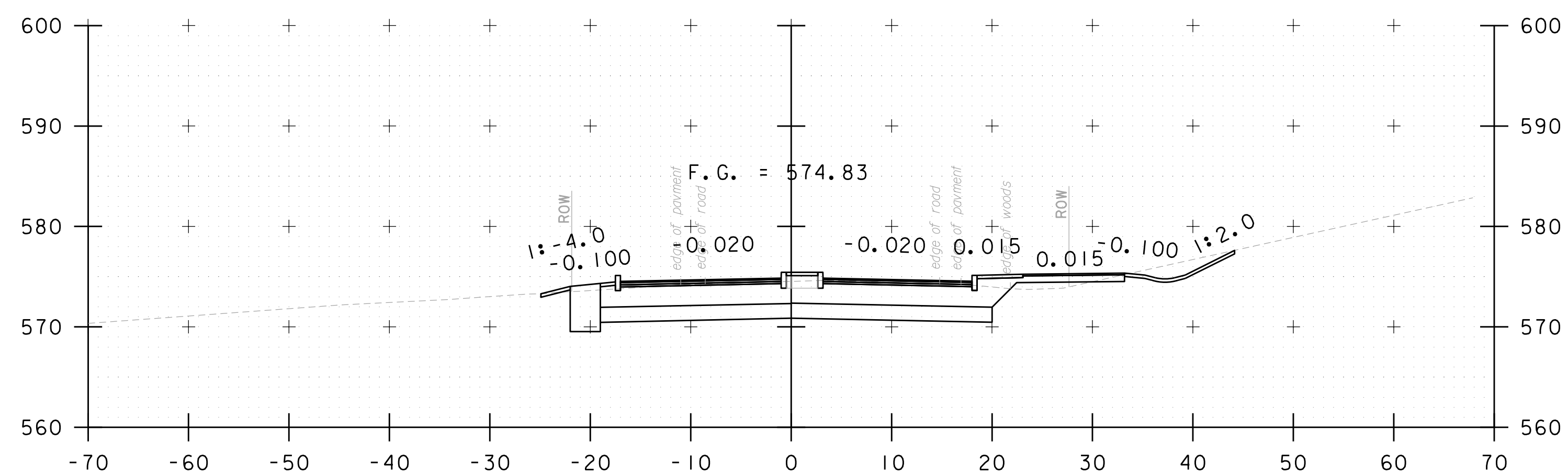
PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 17 OF 22



60+00



59+50



59+00

STA. 59+00 TO STA. 60+00

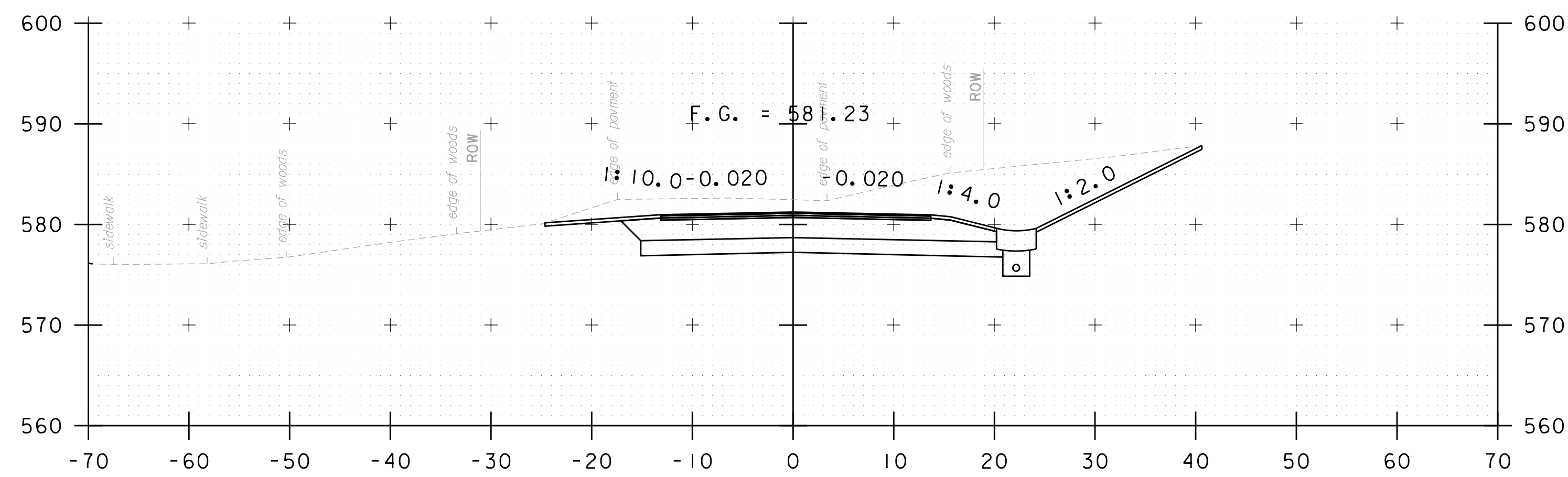
NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES



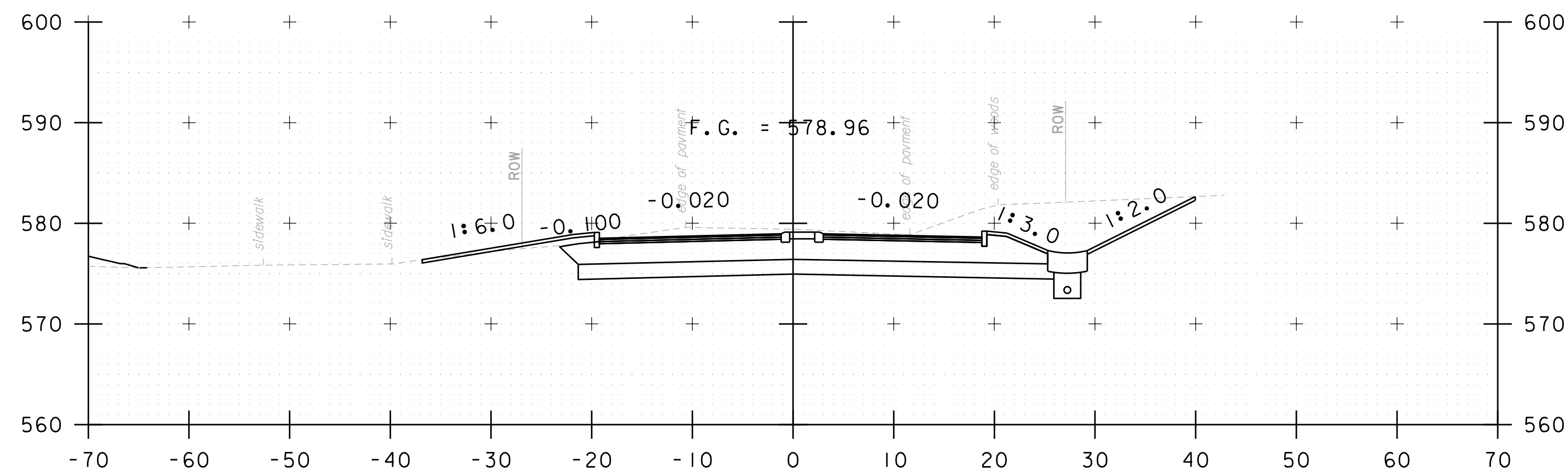
PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 2

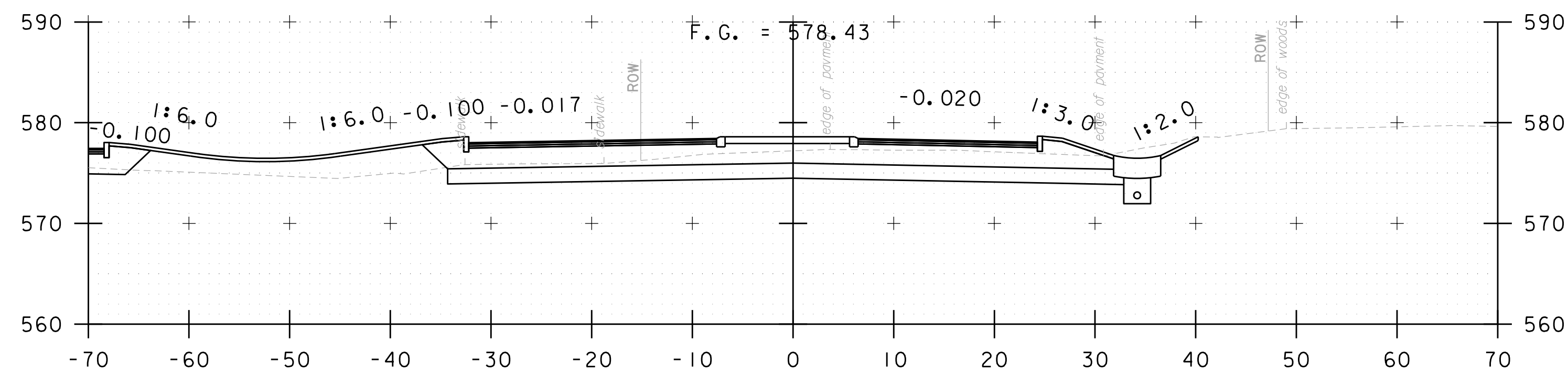
PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 18 OF 22



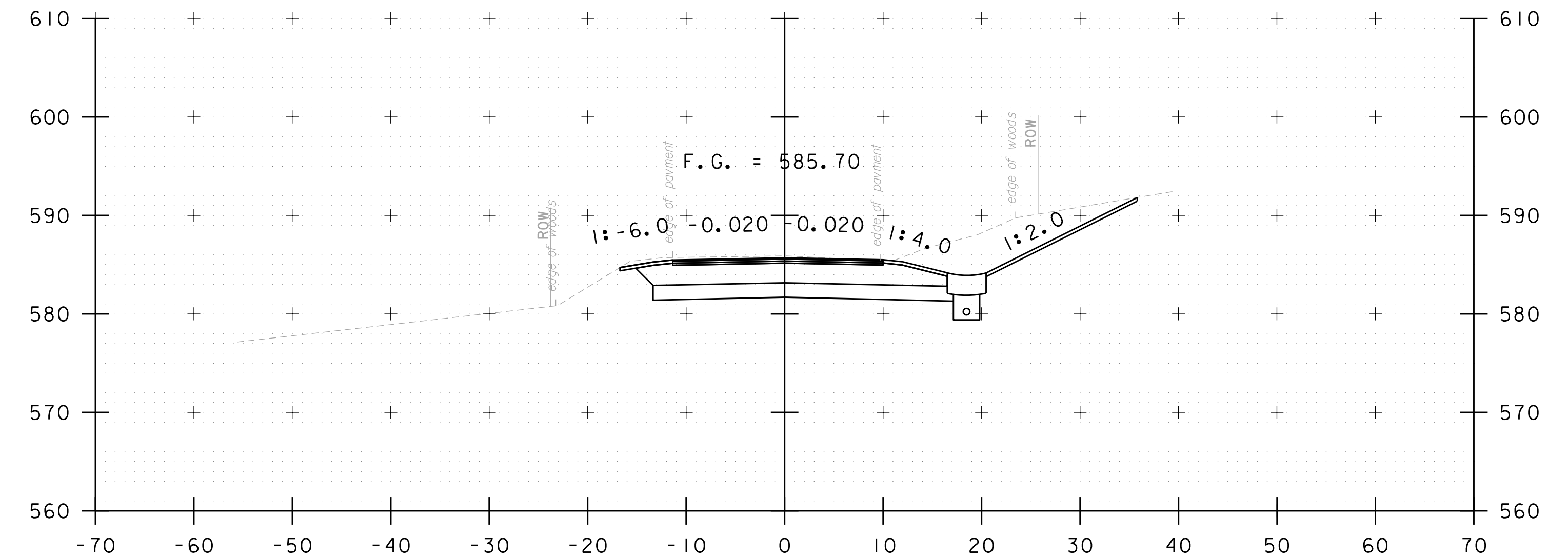
11+50



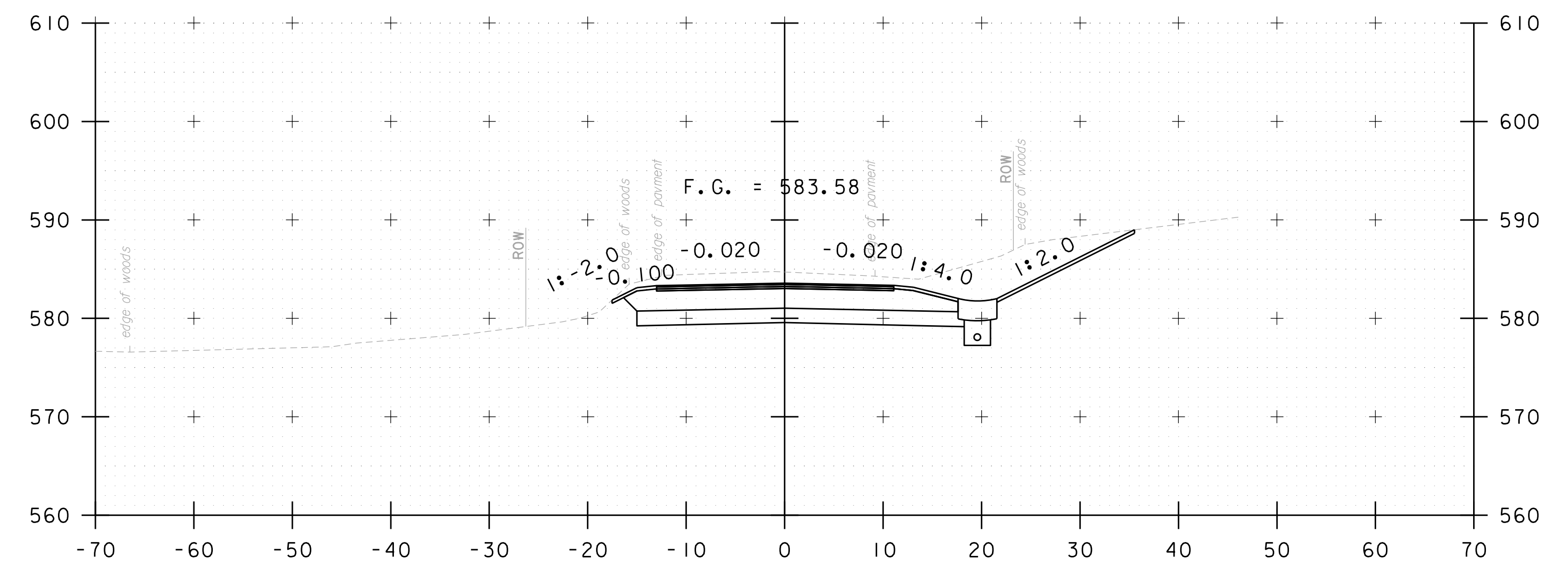
11+00



10+75



12+50



12+00

STA. 10+75 TO STA. 12+50

NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES

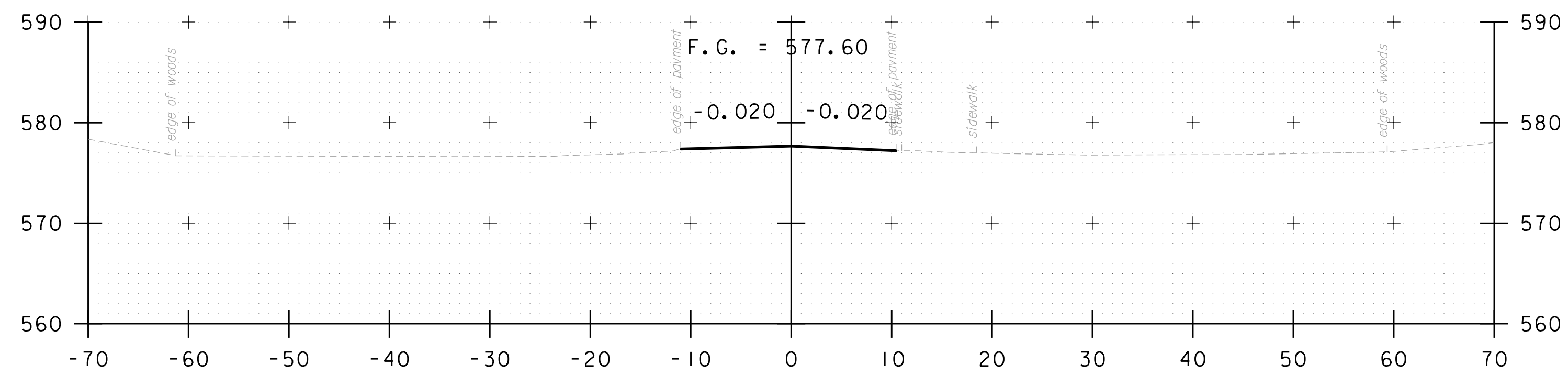


GREEN INTERNATIONAL AFFILIATES, INC.  
CIVIL AND STRUCTURAL ENGINEERS

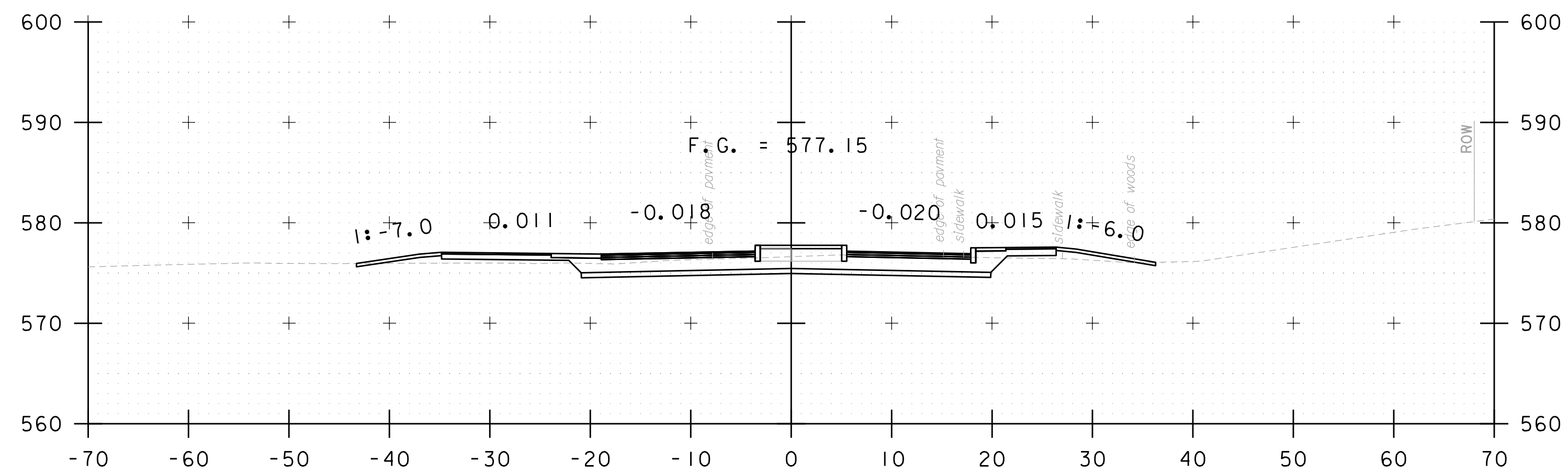
PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 3

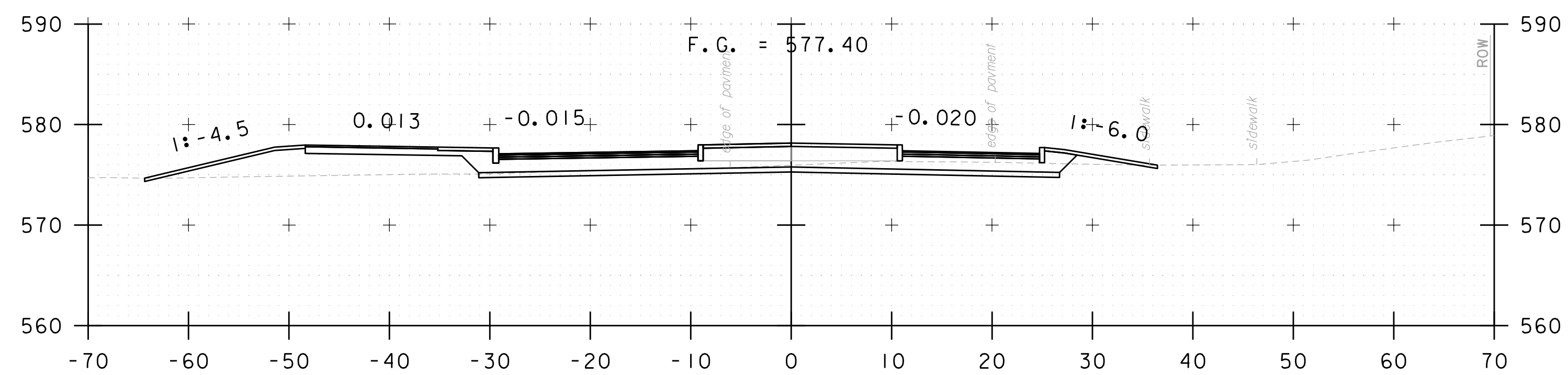
PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 19 OF 22



21+45



21+00



20+75

STA. 20+75 TO STA. 21+50

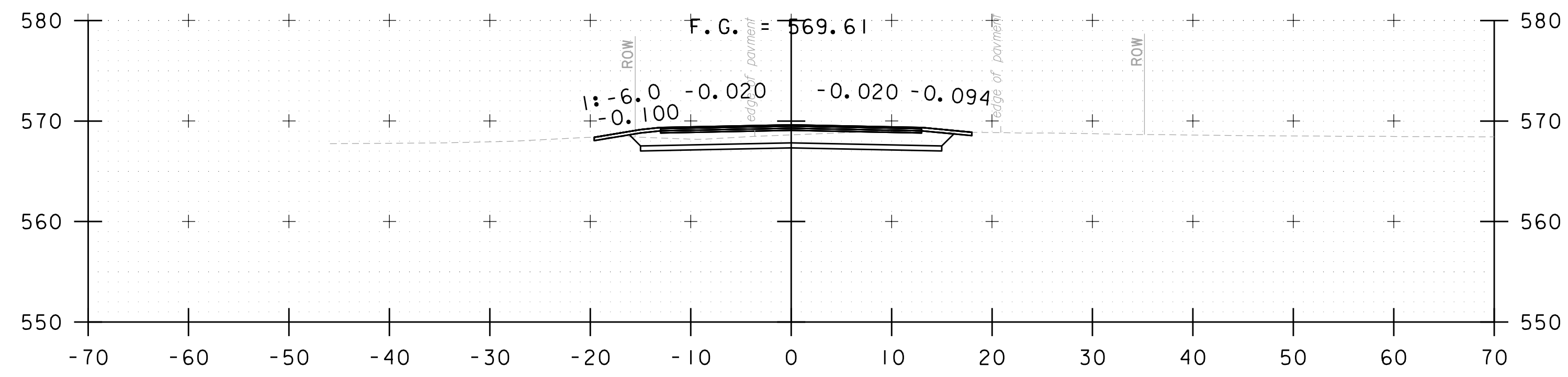
NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES



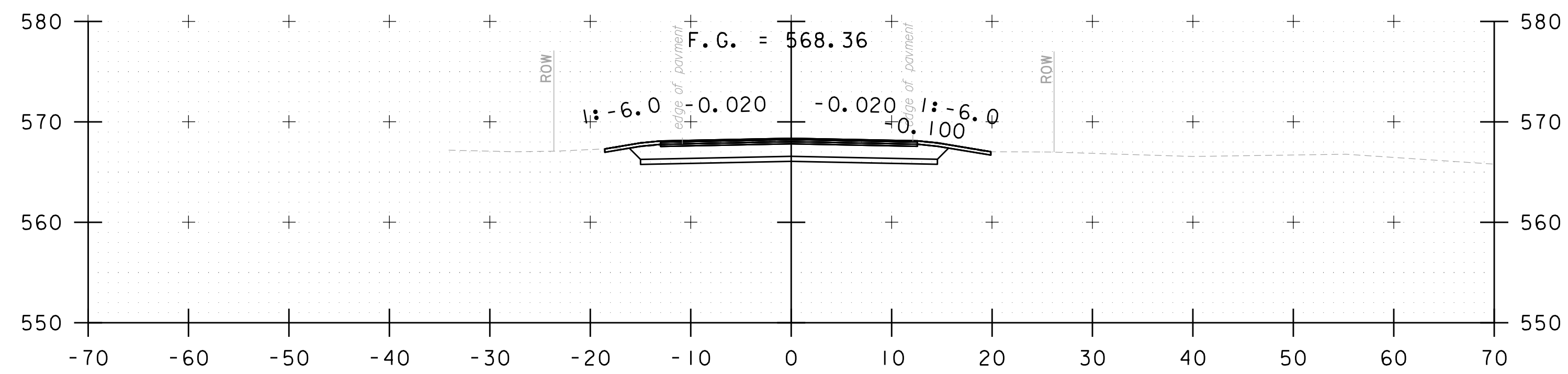
PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 4

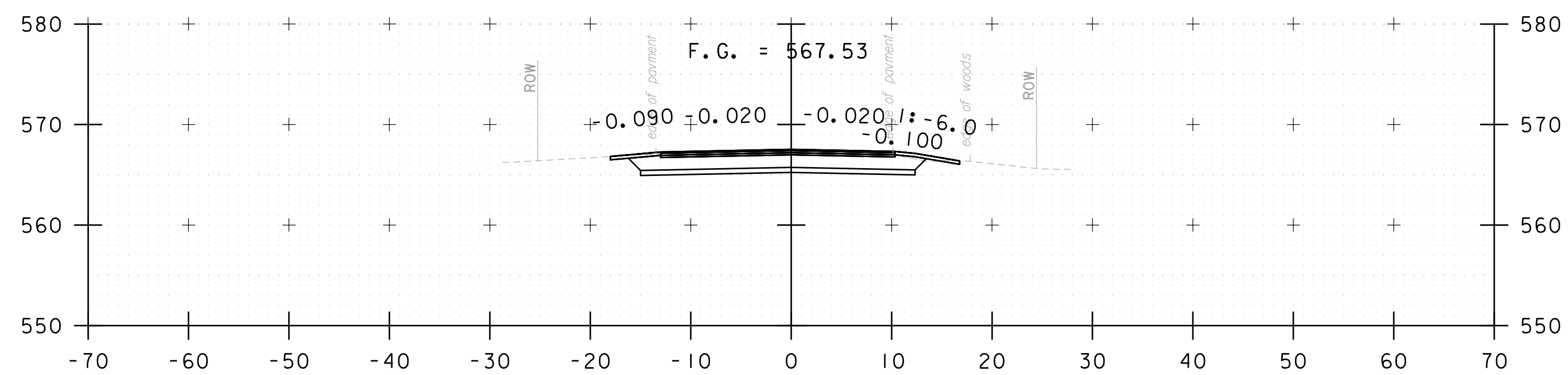
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DRAWN BY: M. PEREZ  
CHECKED BY: D. VERIYEV  
SHEET 20 OF 22



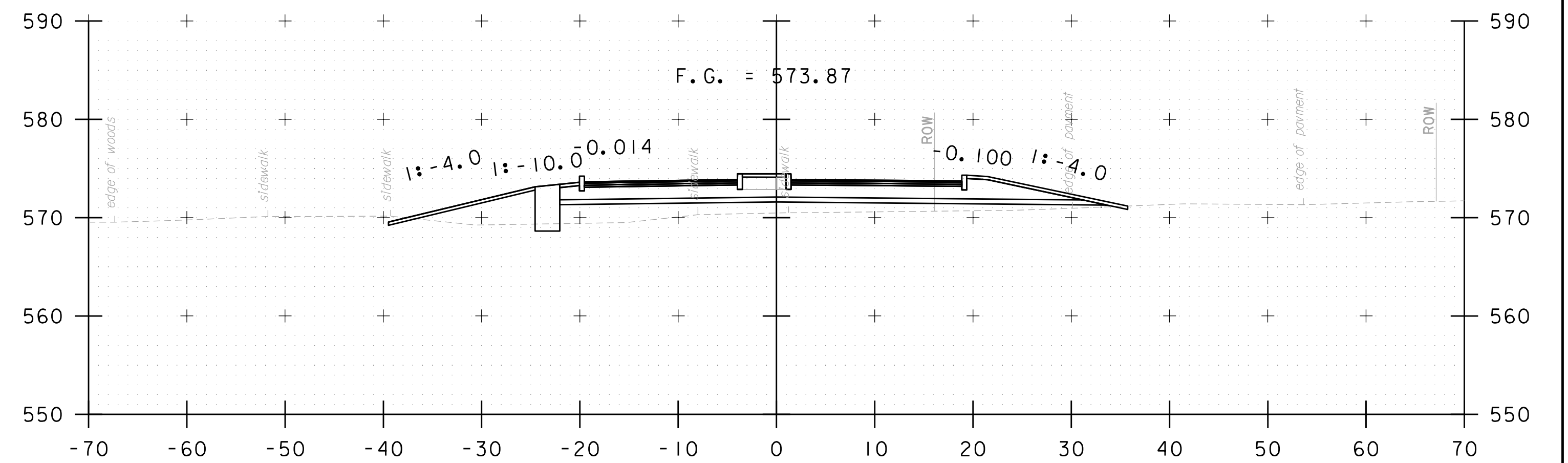
32+50



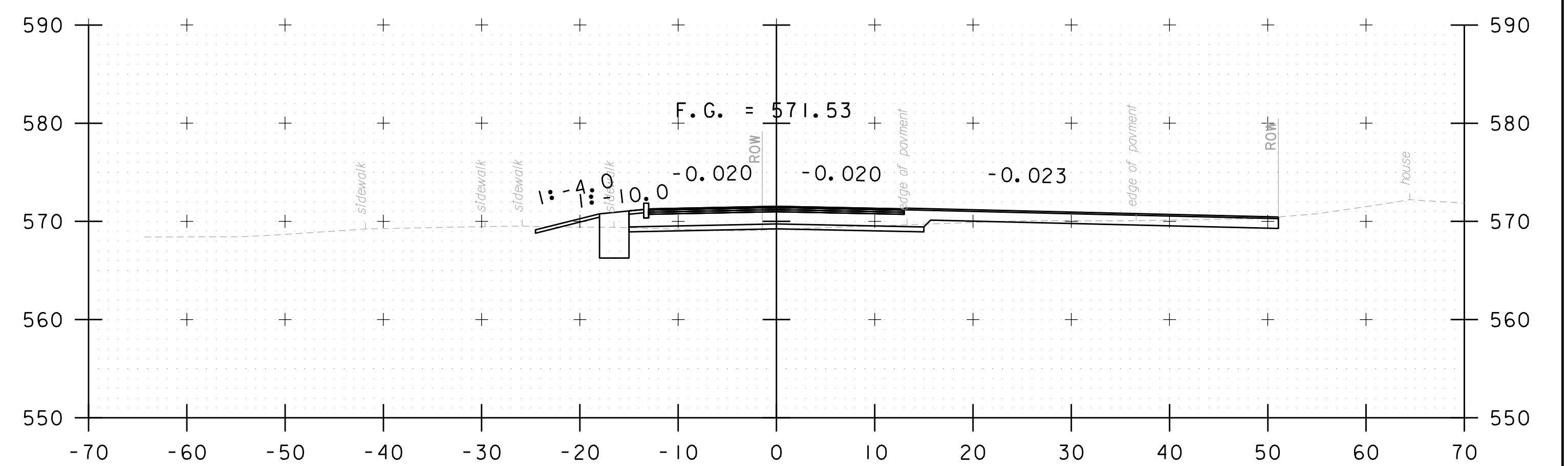
32+00



31+50



33+50



33+00

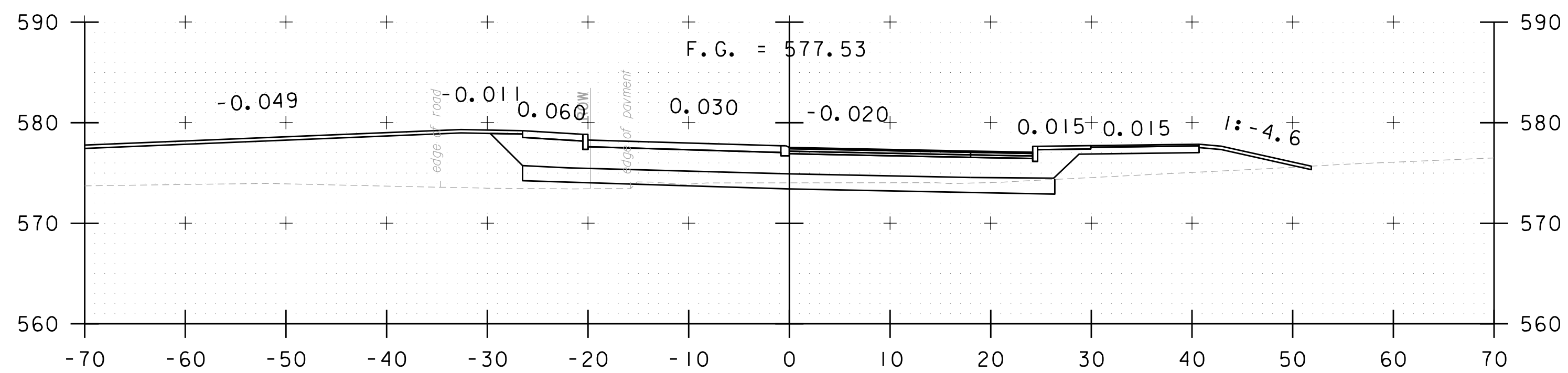
STA. 31+50 TO STA. 33+50

NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES

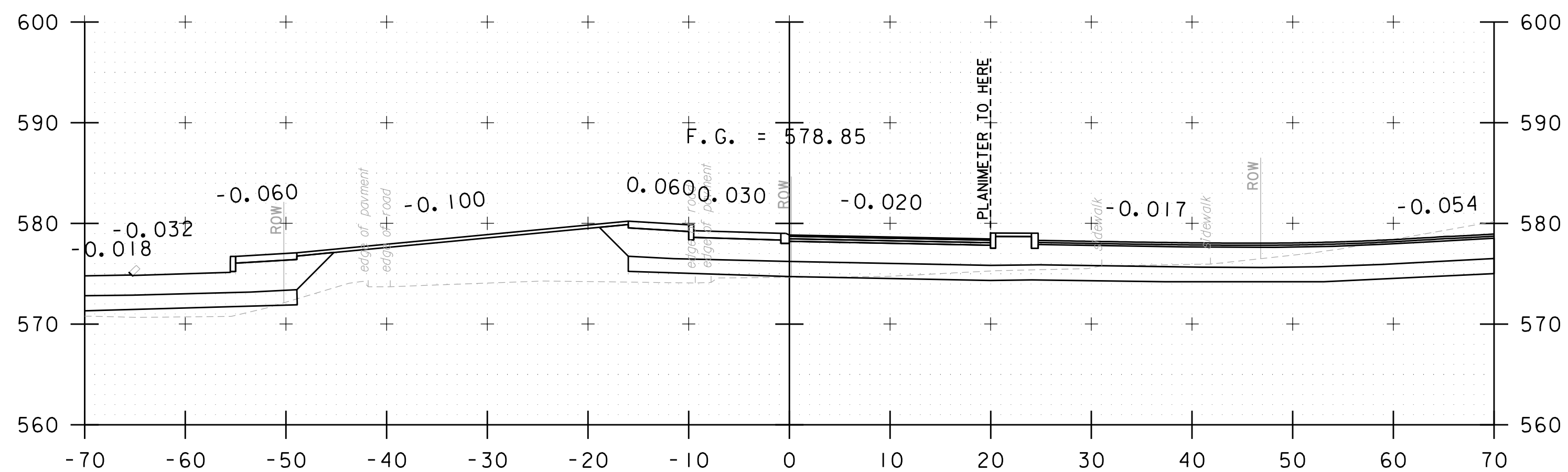


PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)  
FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 5

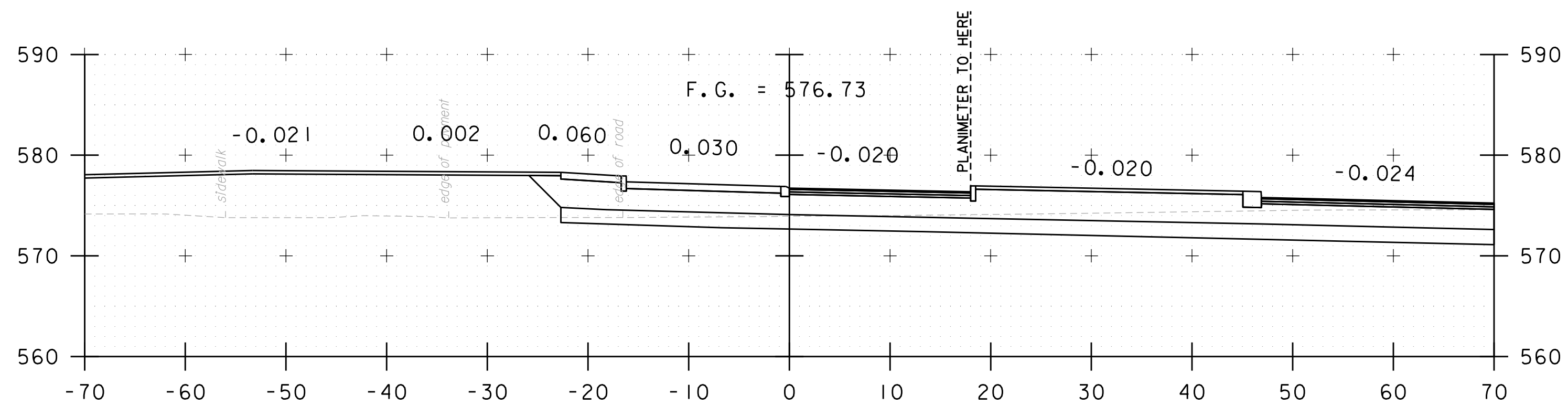
PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 21 OF 22



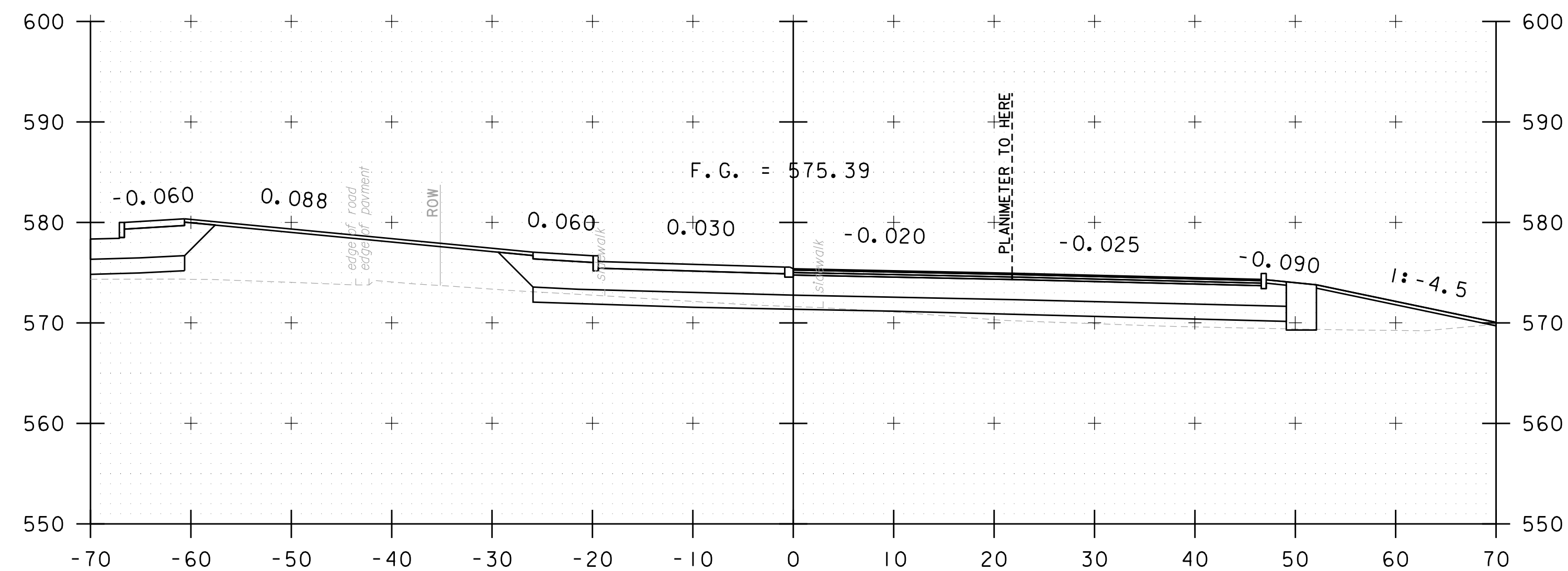
2+00



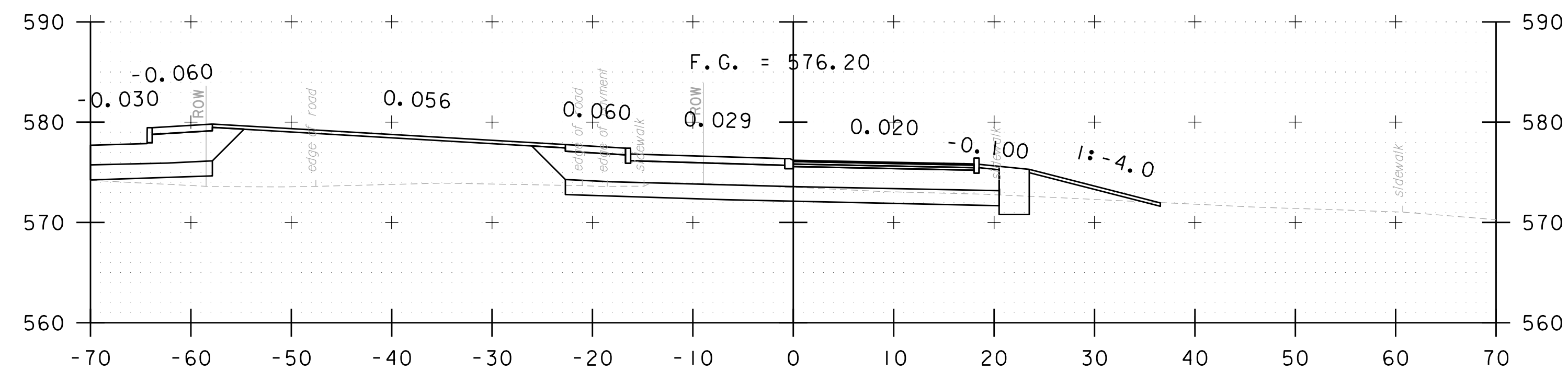
1+00



0+00



4+00



3+00

STA. 0+00 TO STA. 4+69

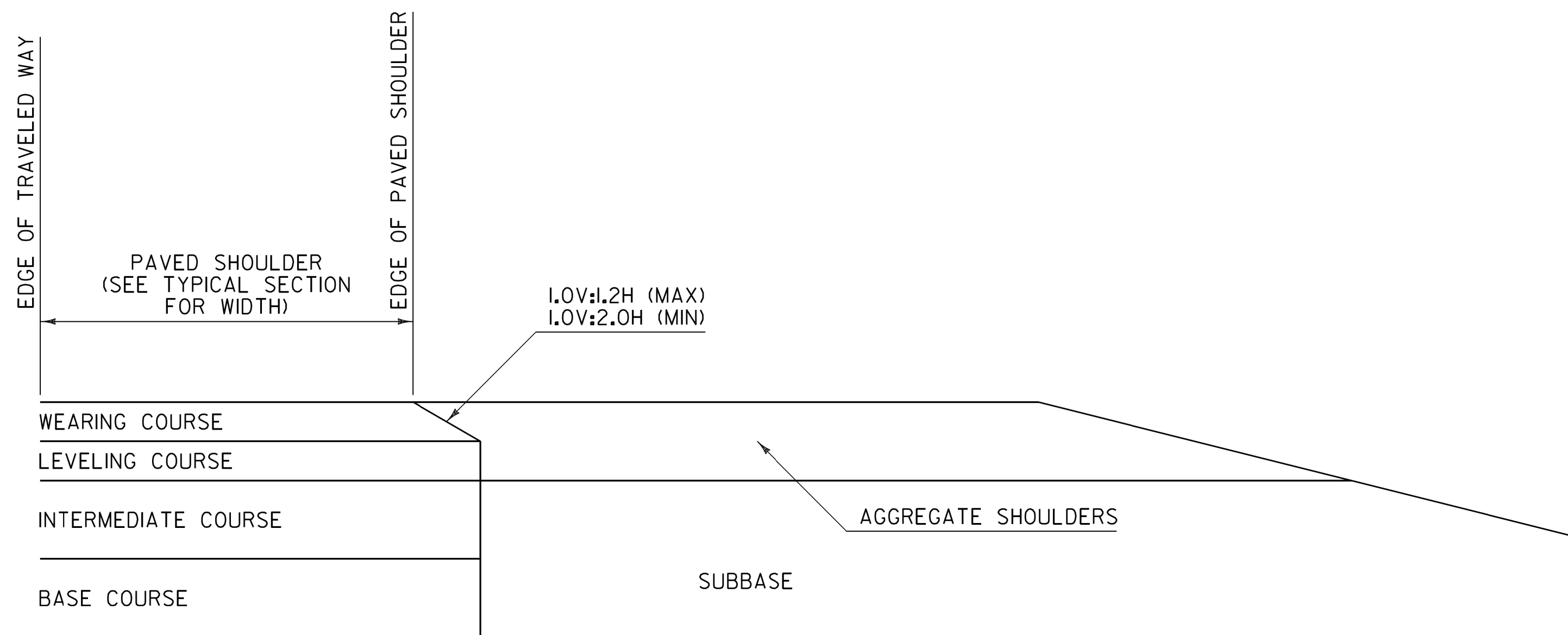
NOTE: CROSS SLOPES MAY APPEAR NON-STANDARD DUE TO ALIGNMENT SKEW.  
SEE TYPICAL SECTIONS FOR STANDARD CROSS SLOPES



PROJECT NAME: BENNINGTON  
PROJECT NUMBER: STP 1000(23)

FILE NAME: z18dl65xsl.dgn  
PROJECT LEADER: E. ATKINS  
DESIGNED BY: S. SACCO  
CRITICAL CROSS SECTION SHEET 6

PLOT DATE: 11/6/2020  
DRAWN BY: M. PEREZ  
CHECKED BY: D. VERTIYEV  
SHEET 22 OF 22

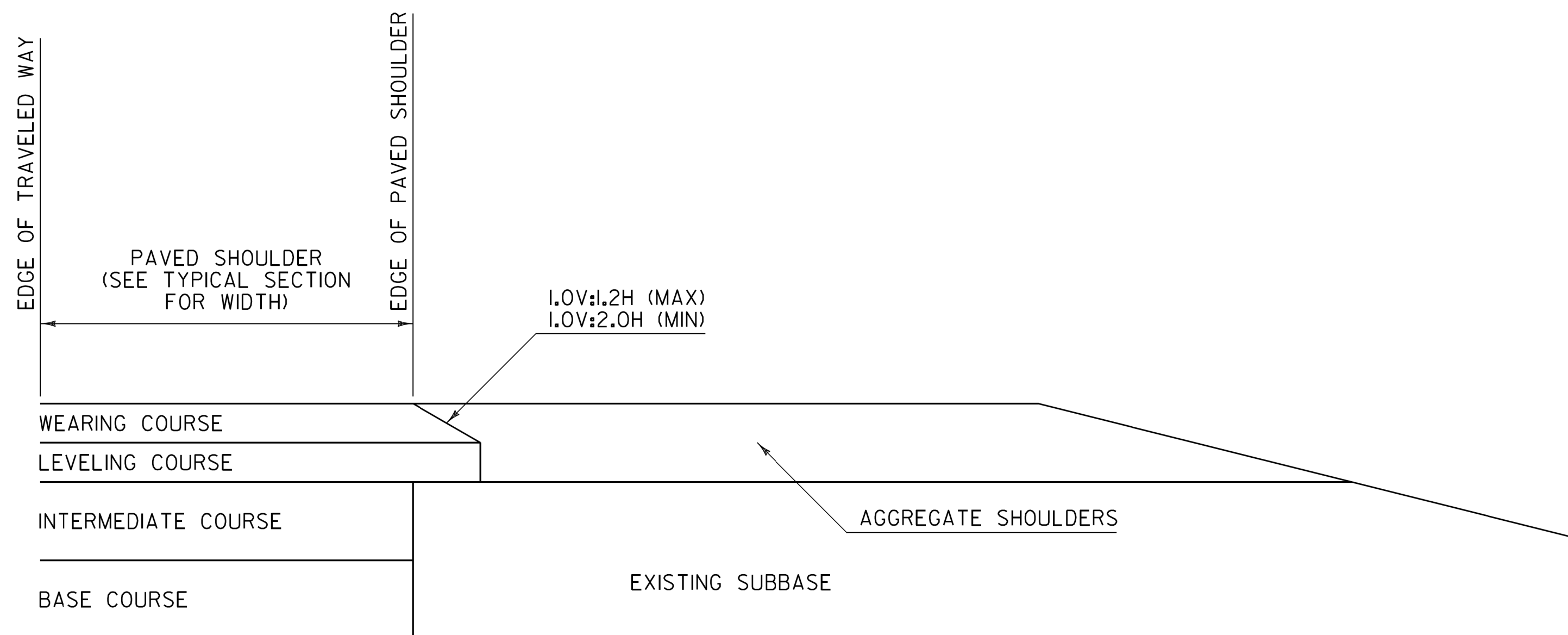


**SAFETY EDGE DETAIL  
FOR PAVING BELOW WEARING COURSE**

**NOTES:**

1. THIS DETAIL IS INTENDED FOR WHEN PAVING EXTENDS BELOW THE WEARING COURSE.
2. PRIOR TO PLACEMENT OF THE LEVELING AND/OR WEARING COURSE, THE SUBBASE LOCATED BENEATH THE AGGREGATE SHOULDERS SHALL BE PREPARED FLUSH WITH THE BOTTOM OF THE LEVELING COURSE.
3. BASE COURSE LIMITS MAY VARY, SEE TYPICAL SECTIONS FOR WIDTH.

SAFETY EDGE WIDTH BASED ON WEARING COURSE THICKNESS AND A 1V:1.6H SLOPE	
WEARING COURSE THICKNESS (INCHES)	NOMINAL SAFETY EDGE WIDTH (INCHES)
1.25	2.000
1.50	2.375
1.75	2.750
2.00	3.125
2.25	3.500
2.50	4.000



**SAFETY EDGE DETAIL  
FOR PAVING WEARING COURSE ONLY**

**NOTES:**

1. THIS DETAIL IS INTENDED FOR WHEN ONLY THE LEVELING AND/OR WEARING COURSE IS TO BE PLACED.
2. PAVEMENT COURSES MAY VARY, SEE TYPICAL SECTIONS FOR ACTUAL PAVEMENT COURSES REQUIRED.

**GENERAL NOTES:**

1. PLACEMENT OF THE WEARING COURSE SHALL INCLUDE THE SAFETY EDGE, UNLESS THE FOLLOWING APPLIES:
  - A. THE ADJACENT SLOPE IS STEEPER THAN THE SAFETY EDGE.
  - B. THE EDGE OF PAVEMENT BEING PLACED ABUTS BOUND MATERIAL.
  - C. VEHICLES ARE RESTRICTED FROM LEAVING THE PAVED SURFACE (EXAMPLE: GUARDRAIL).
2. THE SAFETY EDGE SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE SLOPE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
3. THE SAFETY EDGE SHALL NOT BE CONSIDERED PART OF THE PAVED SHOULDER.
4. THIS WORK SHALL BE INCIDENTAL TO THE RESPECTIVE BITUMINOUS CONCRETE PAVEMENT ITEM.

**SAFETY EDGE DETAILS**

REV.	DATE	DESCRIPTION
0	MAR. 29, 2016	ORIGINAL APPROVAL
1	JAN. 5, 2018	ANNOTATION CORRECTIONS
OTHER DETAILS REQUIRED: NONE		
DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN		



**HIGHWAY SAFETY  
& DESIGN DETAIL  
HSD-400.01**