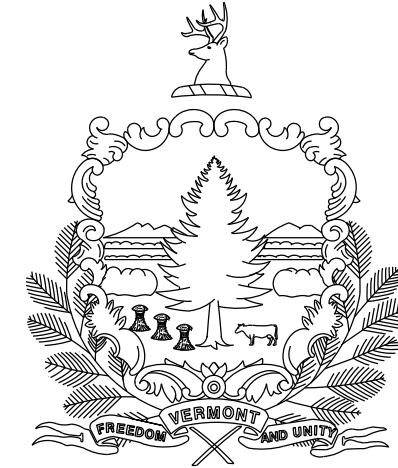


REVIEWER NOTES:

1. CONSTRUCTION WILL BE PERFORMED IN THREE STAGES AND IS EXPECTED TO BE COMPLETED IN ONE SEASON.
2. UTILITIES:
 - A) EXISTING 8" CAST IRON CITY OF MONTPELIER WATER MAIN EXISTS IMMEDIATELY NORTH OF THE NORTHWEST CORNER OF THE PROPOSED BRIDGE. THE EXACT LOCATION OF THIS MAIN SHALL BE DETERMINED DURING THE DESIGN PHASE OR AT THE START OF CONSTRUCTION TO ENSURE THE CONTRACTOR PROTECTS THE PIPELINE. EARLY COORDINATION WITH THE UTILITY OWNER IS RECOMMENDED.
 - B) THERE IS AN EXISTING GUY WIRE CROSSING THE ROADWAY TO A STUB POLE/ANCHOR APPROXIMATELY 50' WEST OF THE BRIDGE. THIS OVERHEAD GUY WIRE MUST BE REMOVED PRIOR TO CONSTRUCTION FOR CRANE OPERATIONS. THE EXISTING STUB POLE/ANCHOR IS LOCATED IN THE FUTURE SHOULDER AND MUST BE REMOVED OR RELOCATED.
 - C) AN EXISTING ELECTRIC LINE CROSSES THE ROADWAY APPROXIMATELY 80' WEST OF THE BRIDGE. IT APPEARS THAT THE WIRE IS ABANDONED. THIS SHOULD BE CONFIRMED AND THE WIRE REMOVED PRIOR TO CONSTRUCTION.
3. RIGHT-OF-WAY:
 - A) IF A PUSH BRACE IS USED TO REPLACE THE EXISTING GUY WIRE/STUB POLE THAT IS IN CONFLICT, A PERMANENT UTILITY ROW EASEMENT WOULD BE REQUIRED, SEE UTILITY NOTE 2B ABOVE.
 - B) THREE TEMPORARY CONSTRUCTION EASEMENTS WILL BE REQUIRED FOR:
 1. ROADWAY SIDE SLOPE CONSTRUCTION NORTHWEST OF THE BRIDGE AT STA. 147+90, LT. THIS TEMPORARY EASEMENT SHALL BE INCREASED IN SIZE TO ALLOW FOR CONTRACTOR ACCESS AND EQUIPMENT STAGING AS SHOWN ON THE STAGING PLAN.
 2. REMOVAL OF THE EXISTING UPSTREAM WINGWALLS SOUTH OF THE BRIDGE. THESE TWO TEMPORARY EASEMENTS SHALL BE INCREASED IN SIZE TO ALLOW FOR CONTRACTOR ACCESS AS SHOWN ON THE STAGING PLAN.
 - C) IT IS EXPECTED THAT THE CONTRACTOR WILL UTILIZE THE AREA SOUTHWEST OF THE BRIDGE (OWNED BY THE STATE OF VERMONT AND PART OF THE VAST TRAIL) FOR EQUIPMENT STAGING/LAYDOWN.
 - D) ADDITIONAL LAYOUT SURVEY IS REQUIRED AT THE WESTERN LIMIT OF PROJECT TO FULLY DISPLAY EXTENT OF RIGHT-OF-WAY IMPACTS.
4. PROJECT LIMITS: THE PROJECT BEGINS WHERE THE TYPICAL SECTION OF THE CORRIDOR CURRENTLY NARROWS TO MEET THE EXISTING BRIDGE AND THE PROJECT ENDS AT THE LIMITS OF THE APRON OF THE EXISTING CONCRETE RAILROAD CROSSING.
5. TEMPORARY SPEED LIMIT REDUCTION IS NOT INCLUDED BUT CAN BE ADDED AT THE DIRECTION OF VTRANS.

STATE OF VERMONT AGENCY OF TRANSPORTATION



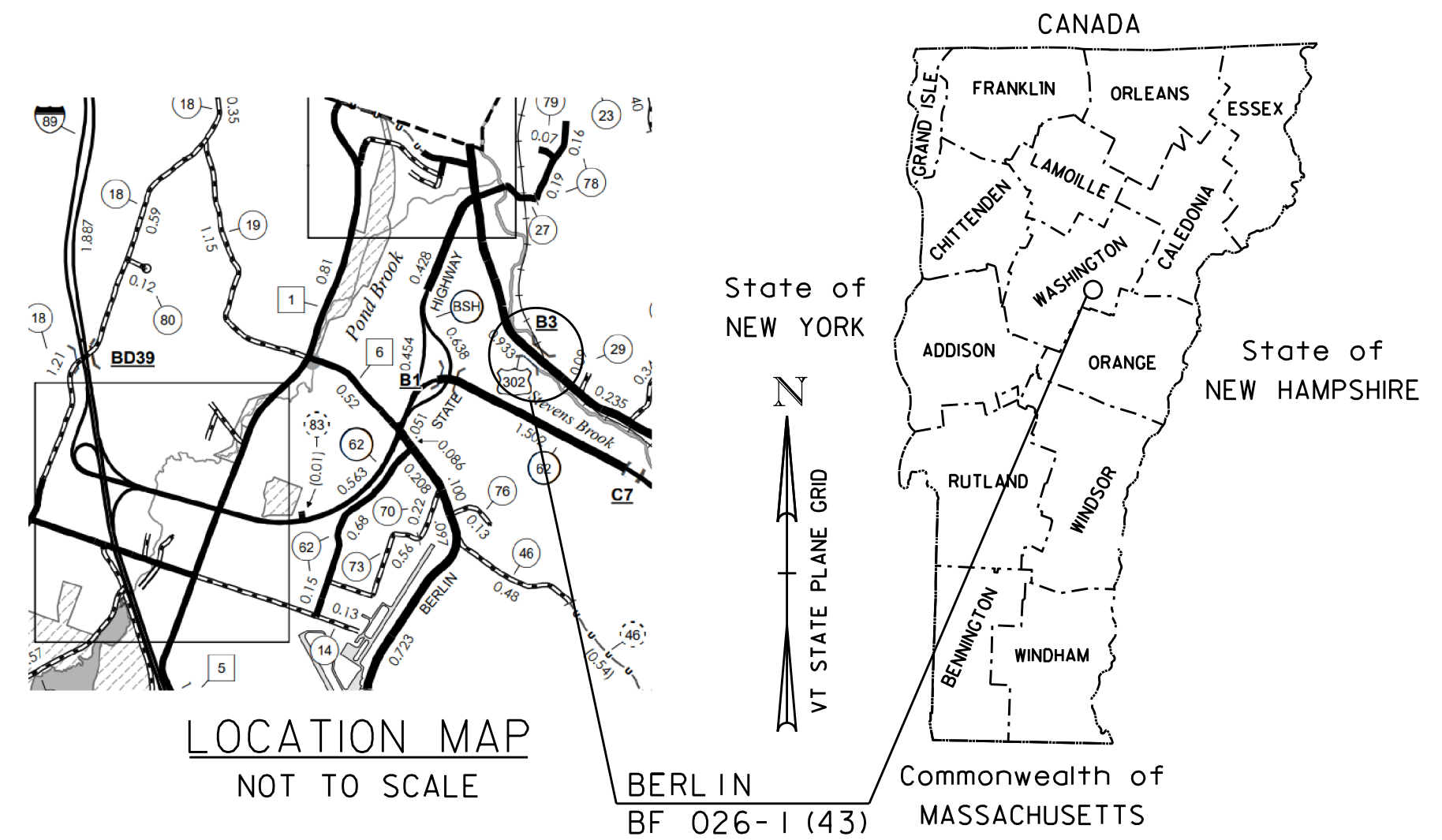
PROPOSED IMPROVEMENT BRIDGE PROJECT TOWN OF BERLIN COUNTY OF WASHINGTON

ROUTE NO: US ROUTE 302, URBAN PRINCIPAL ARTERIAL
BRIDGE NO: 3 OVER STEVENS BRANCH

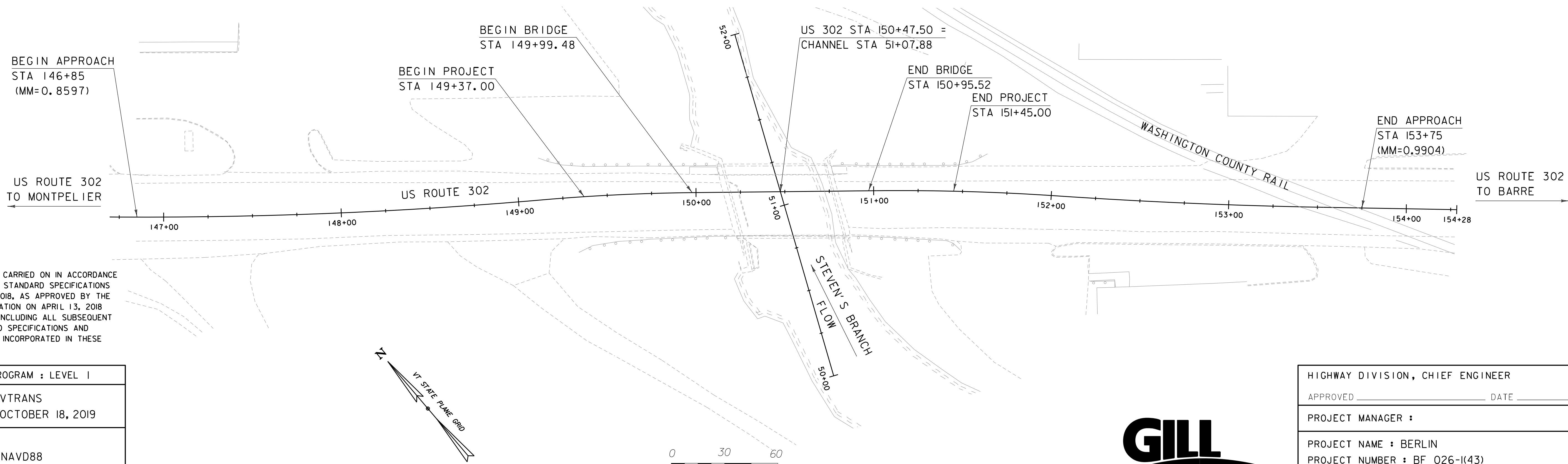
PROJECT LOCATION: 0.7 MILES SOUTHEAST OF THE INTERSECTION OF US 302 AND THE BERLIN STATE HIGHWAY

PROJECT DESCRIPTION: REMOVAL OF EXISTING BRIDGE AND CONSTRUCTION OF A WIDER BRIDGE ON A SIMILAR ALIGNMENT SHIFTED NORTH WITH RELATED APPROACH WORK AND INCIDENTAL ITEMS.

LENGTH OF STRUCTURE: 96.04 FEET
LENGTH OF ROADWAY: 111.96 FEET
TOTAL LENGTH OF PROJECT: 208.00 FEET



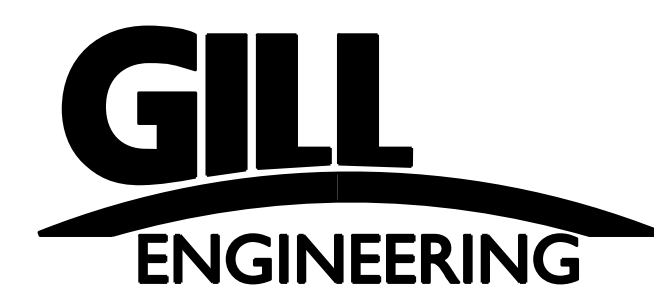
PRELIMINARY PLANS
JULY 20, 2020



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 I	
SURVEYED BY :	VTRANS
SURVEYED DATE :	OCTOBER 18, 2019
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83(2011)

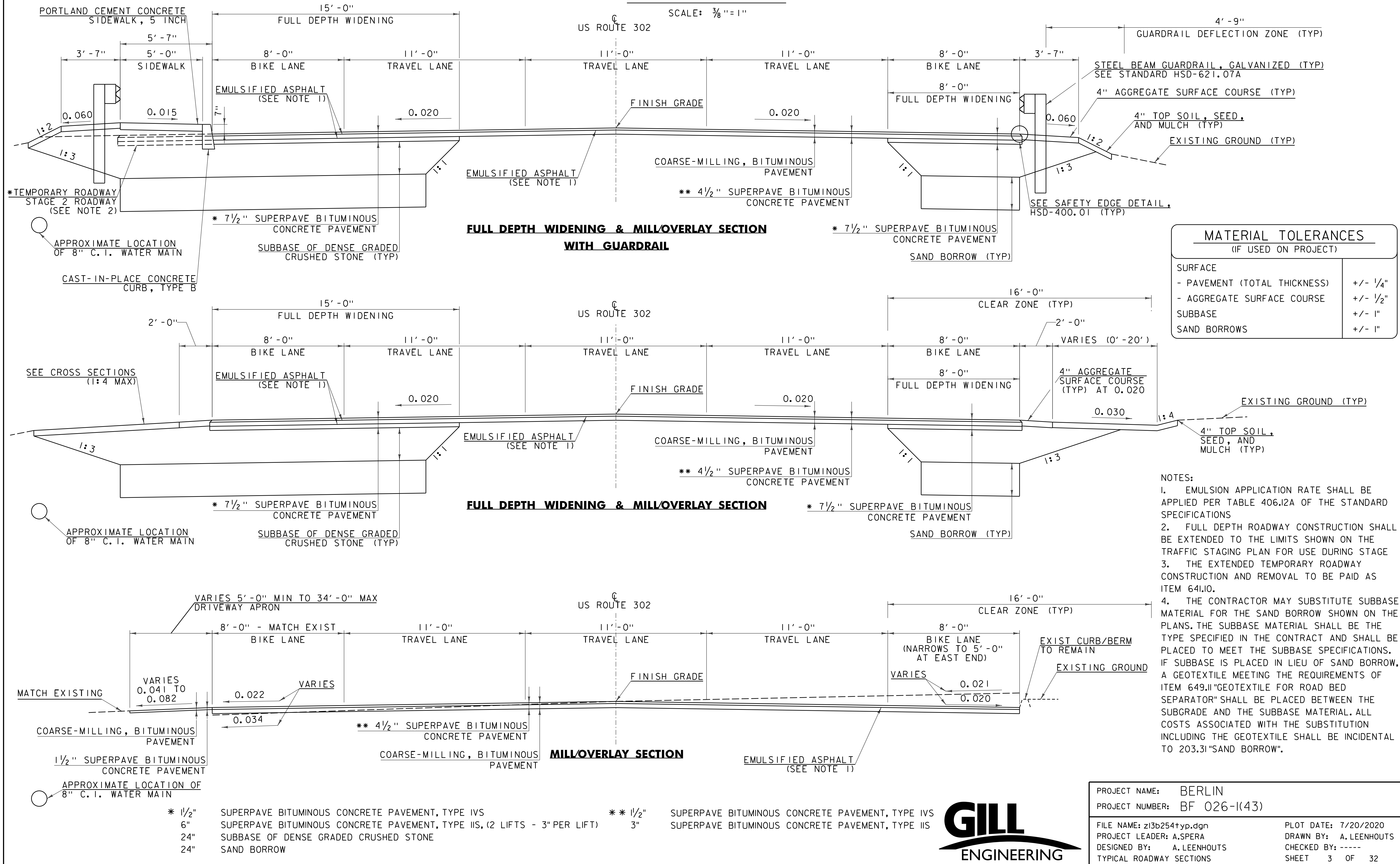
HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER :	
PROJECT NAME : BERLIN	
PROJECT NUMBER : BF 026-I(43)	
SHEET 1 OF 32 SHEETS	



TYPICAL ROADWAY SECTION

US ROUTE 302

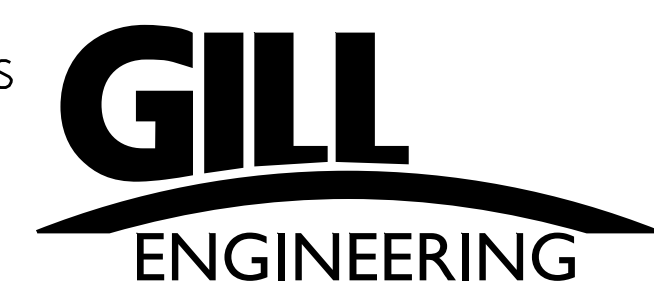
SCALE: 3/8" = 1"



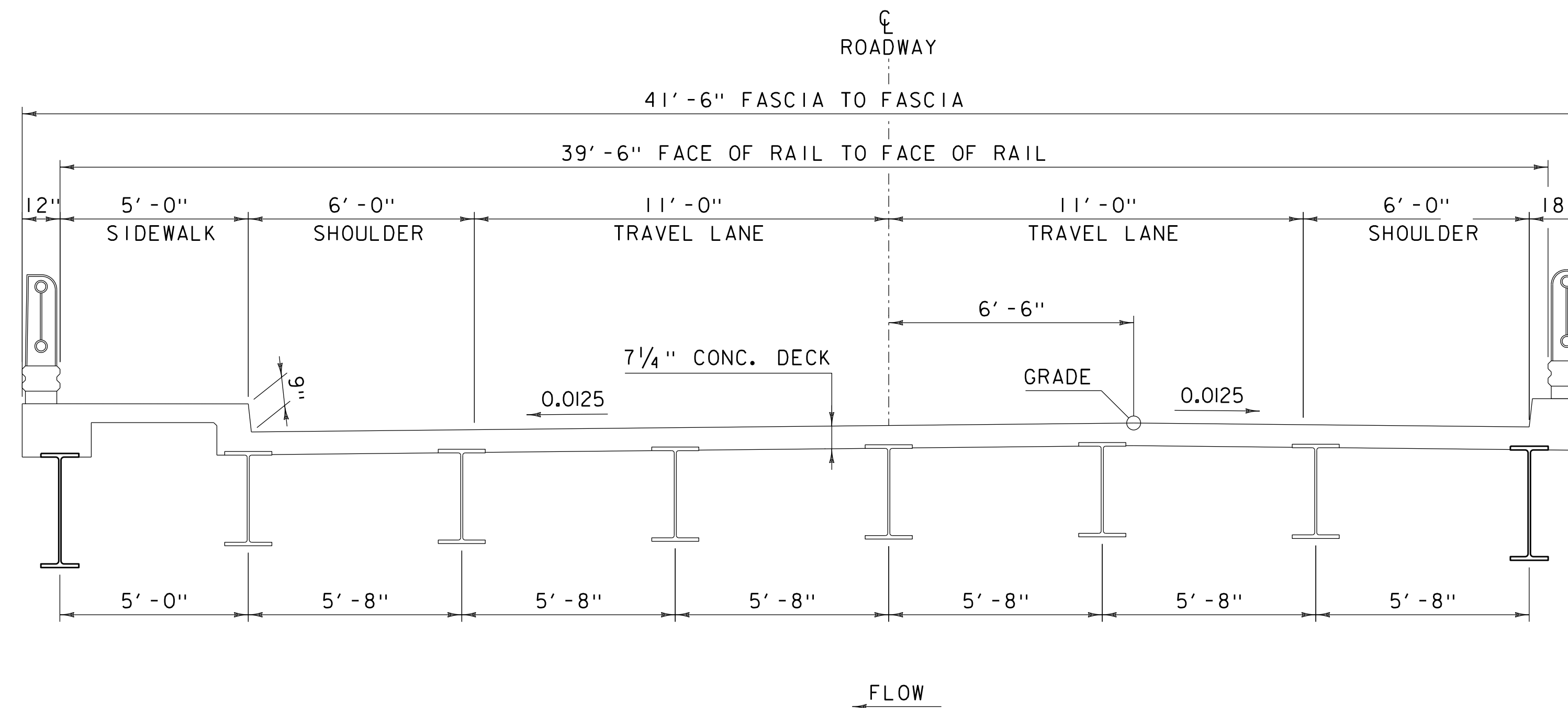
MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	
- SAND BORROWS	+/- 1"

- NOTES:
- EMULSION APPLICATION RATE SHALL BE APPLIED PER TABLE 406.12A OF THE STANDARD SPECIFICATIONS
 - FULL DEPTH ROADWAY CONSTRUCTION SHALL BE EXTENDED TO THE LIMITS SHOWN ON THE TRAFFIC STAGING PLAN FOR USE DURING STAGE 3.
 - THE EXTENDED TEMPORARY ROADWAY CONSTRUCTION AND REMOVAL TO BE PAID AS ITEM 641.10.
 - THE CONTRACTOR MAY SUBSTITUTE SUBBASE MATERIAL FOR THE SAND BORROW SHOWN ON THE PLANS. THE SUBBASE MATERIAL SHALL BE THE TYPE SPECIFIED IN THE CONTRACT AND SHALL BE PLACED TO MEET THE SUBBASE SPECIFICATIONS. IF SUBBASE IS PLACED IN LIEU OF SAND BORROW, A GEOTEXTILE MEETING THE REQUIREMENTS OF ITEM 649.11 "GEOTEXTILE FOR ROAD BED SEPARATOR" SHALL BE PLACED BETWEEN THE SUBGRADE AND THE SUBBASE MATERIAL. ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING THE GEOTEXTILE SHALL BE INCIDENTAL TO 203.31 "SAND BORROW".

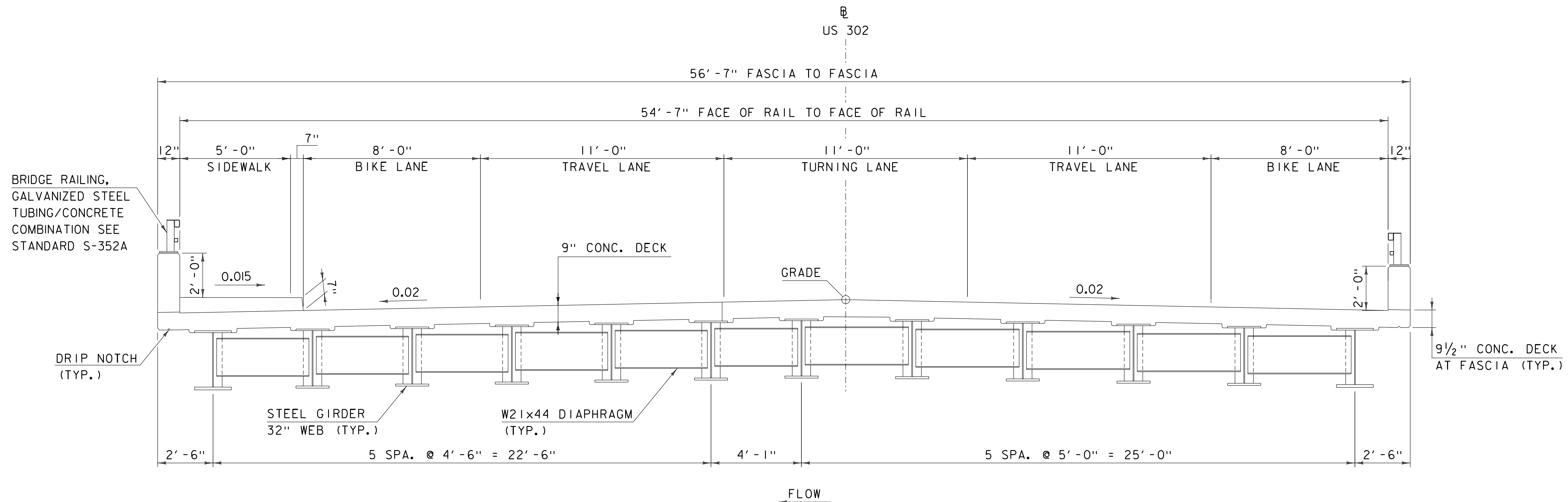
- | | | | |
|--------|---|---------|--|
| * 1/2" | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS | ** 1/2" | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS |
| 6" | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, (2 LIFTS - 3" PER LIFT) | 3" | SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IIS |
| 24" | SUBBASE OF DENSE GRADED CRUSHED STONE | | |
| 24" | SAND BORROW | | |



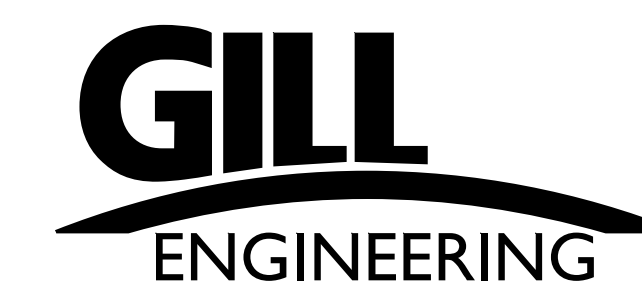
PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME:	z13b254typ.dgn
PROJECT LEADER:	A.SPERA
DESIGNED BY:	A.LEENHOUTS
TYPICAL ROADWAY SECTIONS	
PLOT DATE:	7/20/2020
DRAWN BY:	A.LEENHOUTS
CHECKED BY:	-----
SHEET	3 OF 32



EXISTING BRIDGE TYPICAL SECTION
SCALE $\frac{3}{8}'' = 1'-0''$



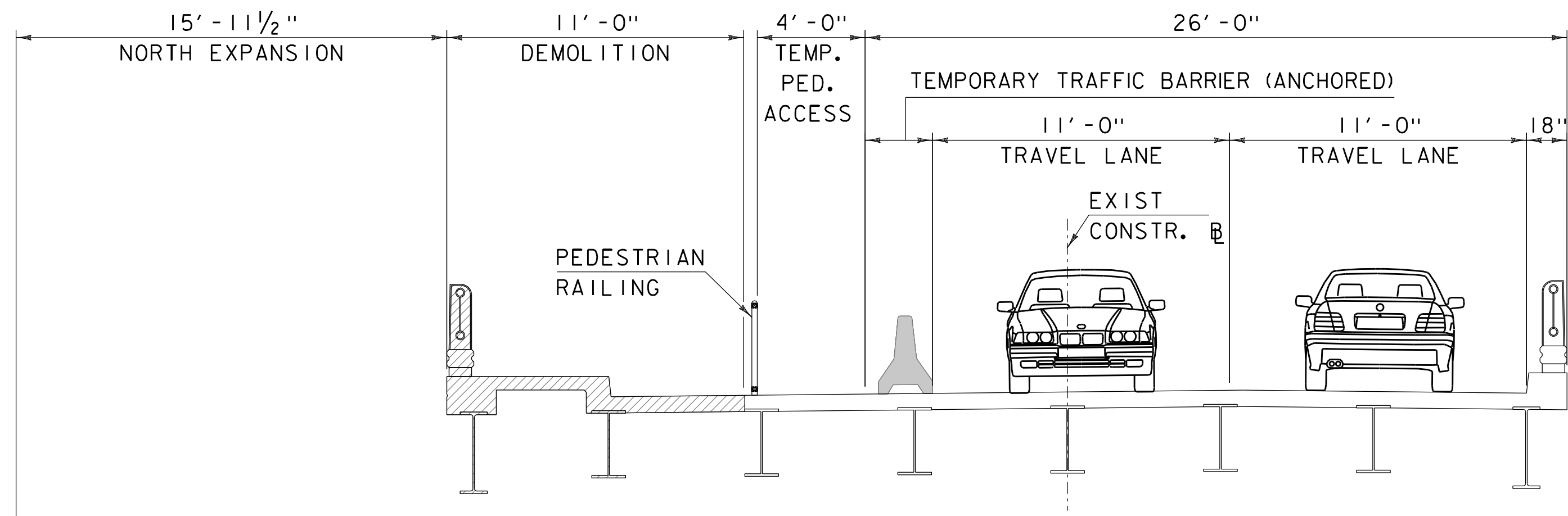
PROPOSED BRIDGE TYPICAL SECTION
SCALE $\frac{3}{8}'' = 1'-0''$



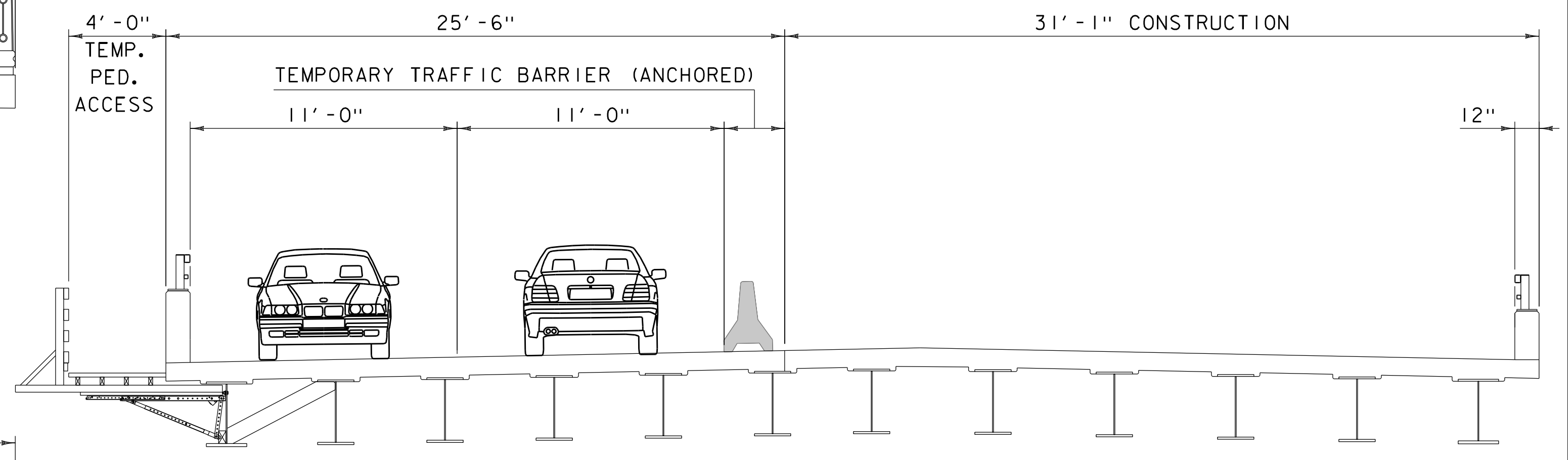
PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254typ.dgn
PROJECT LEADER: A.SPORA
DESIGNED BY: C.BURNER
TYPICAL BRIDGE SECTIONS

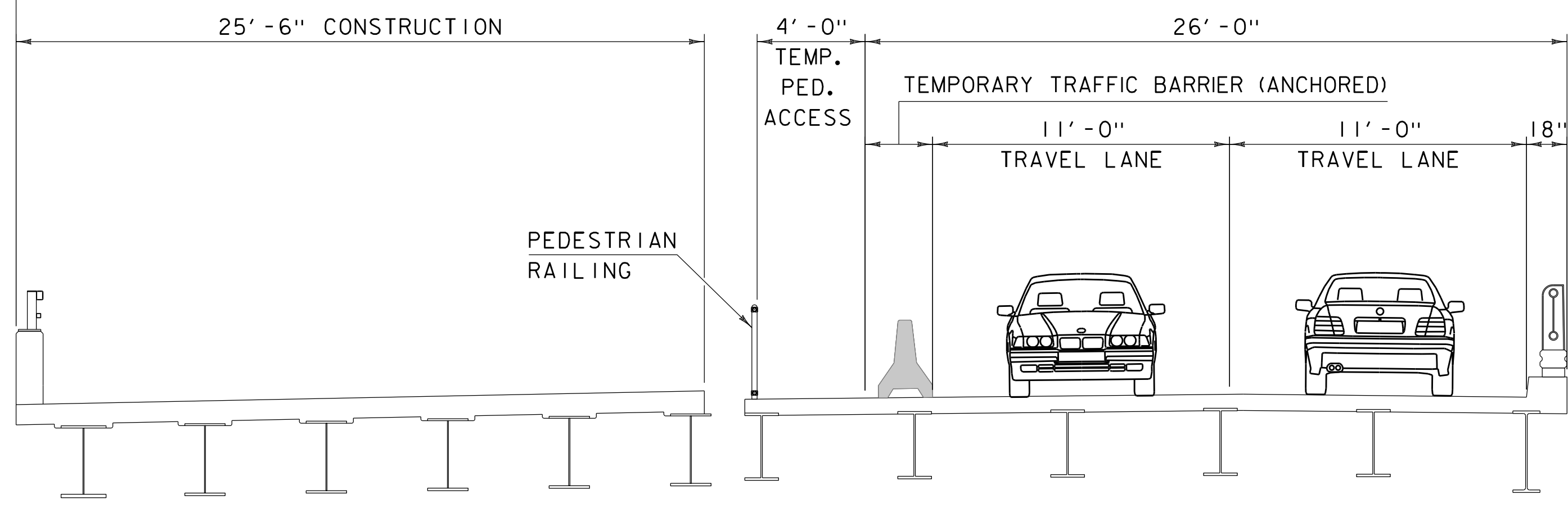
PLOT DATE: 7/20/2020
DRAWN BY: C. BURNER
CHECKED BY: -----
SHEET 4 OF 32



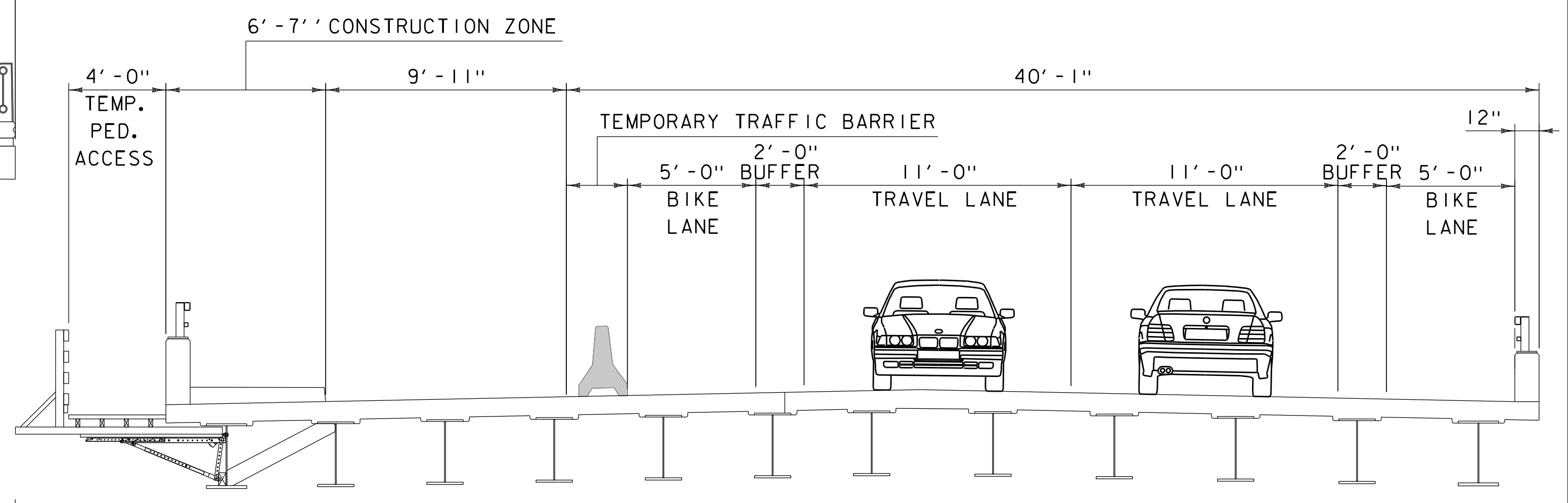
STAGE 1 - DEMOLITION
SCALE: 1/4" = 1'-0"



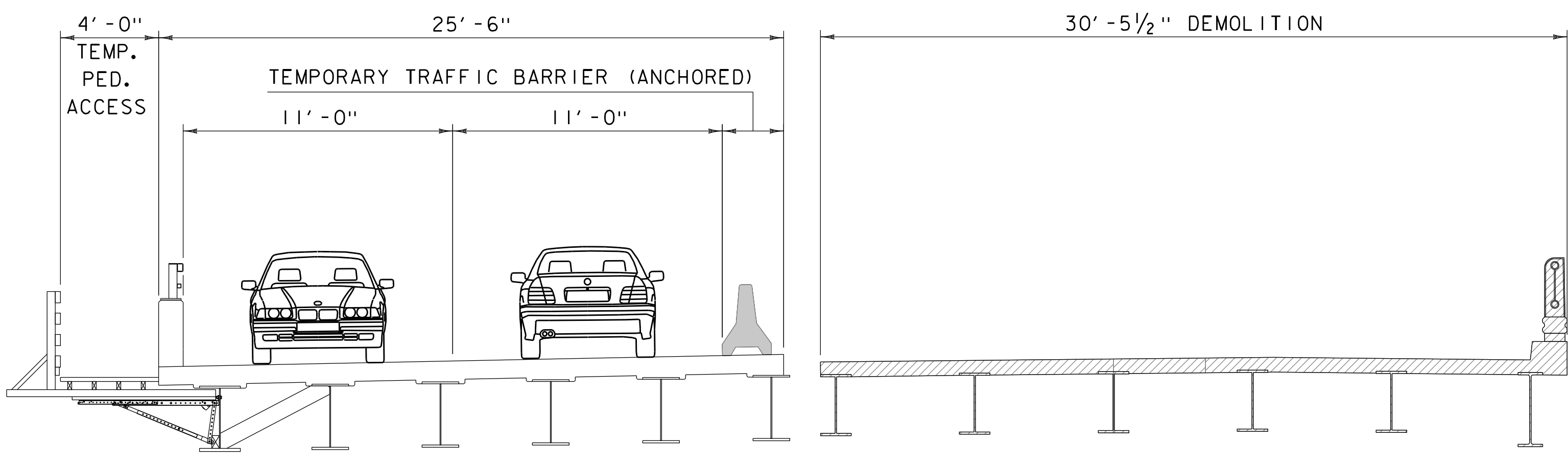
STAGE 2 - CONSTRUCTION
SCALE: 1/4" = 1'-0"



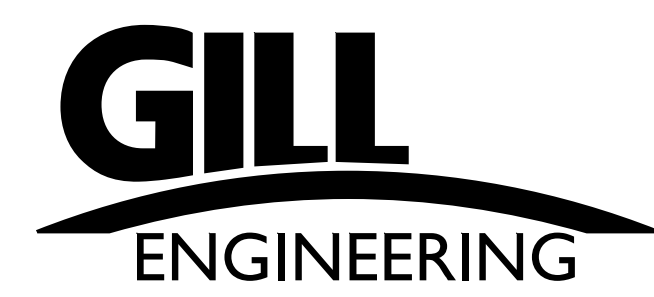
STAGE 1 - CONSTRUCTION
SCALE: 1/4" = 1'-0"



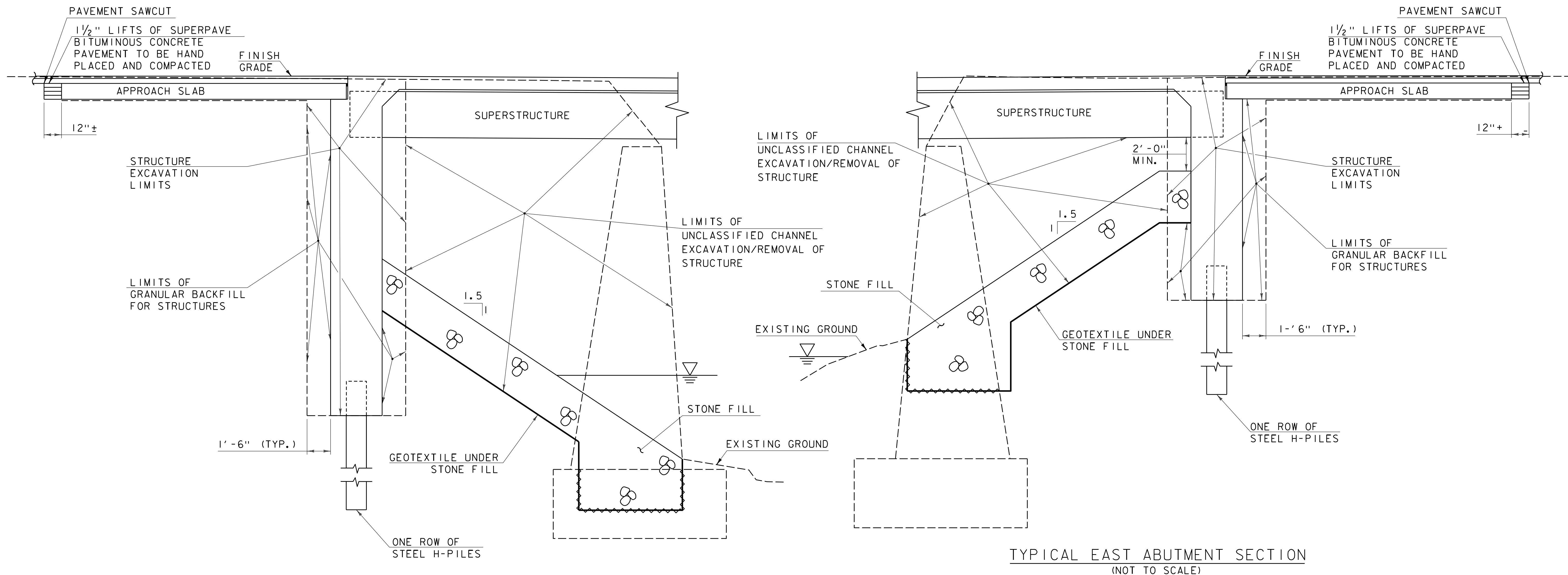
STAGE 3 - CONSTRUCTION
SCALE: 1/4" = 1'-0"



STAGE 2 - DEMOLITION
SCALE: 1/4" = 1'-0"

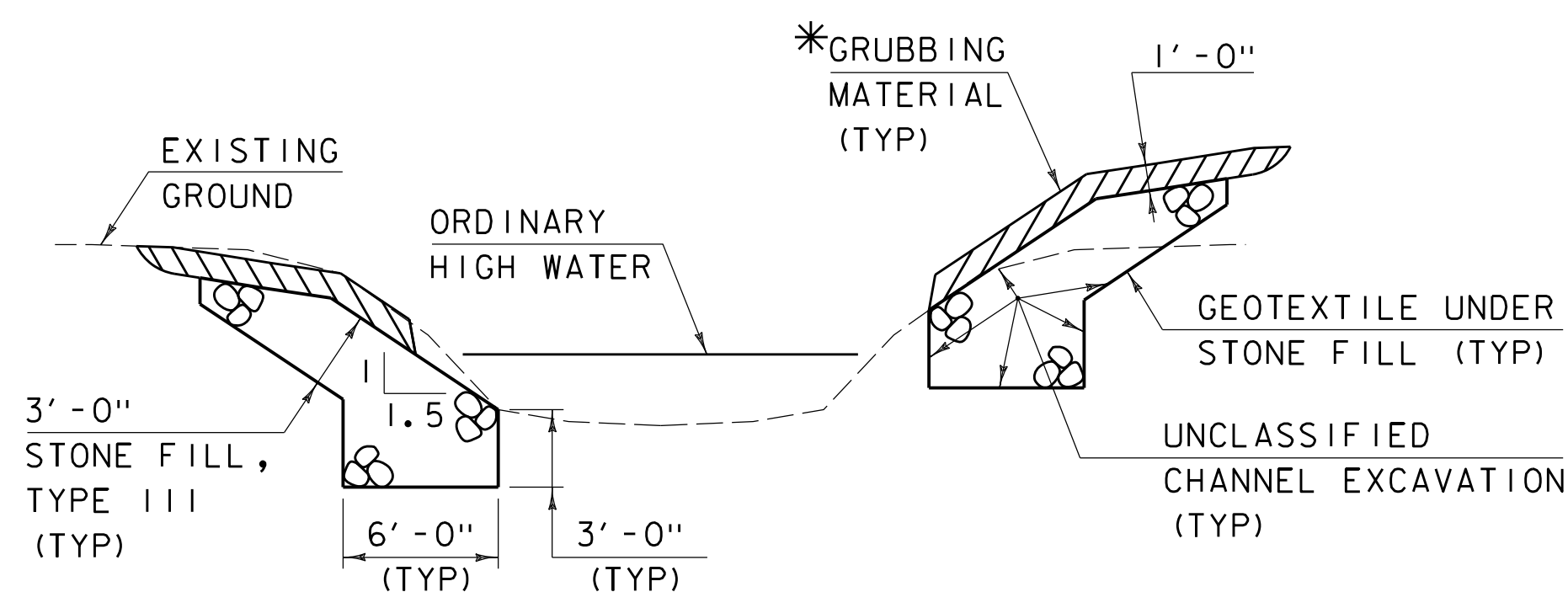


PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: C.BURNER
FILE NAME: z13b254typ.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPORA	SHEET 5 OF 32
DESIGNED BY: C.BURNER	
BRIDGE STAGING SECTIONS	



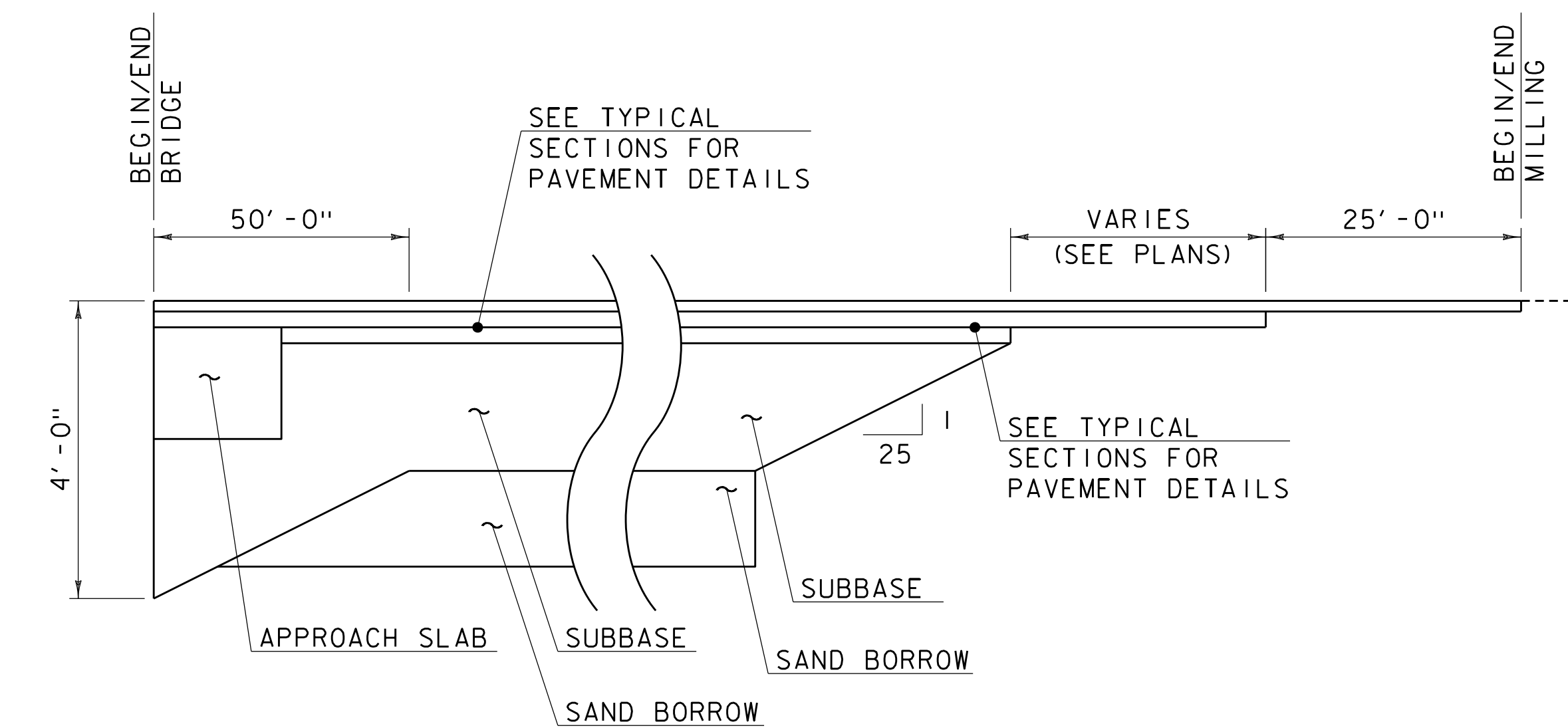
TYPICAL WEST ABUTMENT SECTION
(NOT TO SCALE)

TYPICAL EAST ABUTMENT SECTION
(NOT TO SCALE)



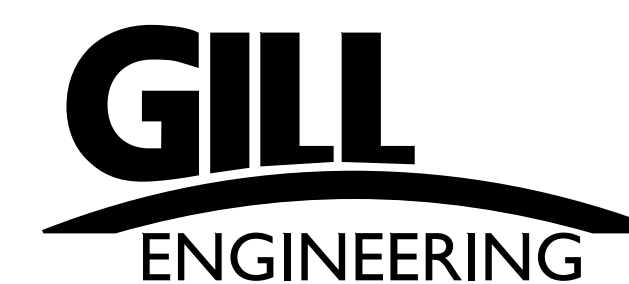
TYPICAL CHANNEL SECTION
(NOT TO SCALE)

*GRUBBING MATERIAL SHALL NOT BE PLACED ON THE STONE FILL IN THE AREA UNDER THE BRIDGE. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



SUBBASE DETAIL AT ABUTMENT
(NOT TO SCALE)

MATERIAL TRANSITION DETAIL
(NOT TO SCALE)



PROJECT NAME: BERLIN
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254typ.dgn
PROJECT LEADER: A.SPORA
DESIGNED BY: C.BURNER
EARTHWORK SECTIONS

PLOT DATE: 7/20/2020
DRAWN BY: C.BURNER
CHECKED BY: -----
SHEET 6 OF 32

GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY 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. SYMBOLOLOGY 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 SYMBOLOLOGY

SYMBOL	DESCRIPTION
— 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)

SYMBOL	DESCRIPTION
— 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 SYMBOLOLOGY

SYMBOL	DESCRIPTION
— 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	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
XXXXXX	TREE PROTECTION ZONE (TPZ)
////	STRIPING LINE REMOVAL
~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLOLOGY**

SYMBOL	DESCRIPTION
—	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/L	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLOLOGY**

**EPSC MEASURES**

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOLOGY

**ENVIRONMENTAL RESOURCES**

—	WETLAND BOUNDARY
---	RIPARIAN BUFFER ZONE
---	WETLAND BUFFER ZONE
---	SOIL TYPE BOUNDARY
T&E	THREATENED & ENDANGERED SPECIES
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

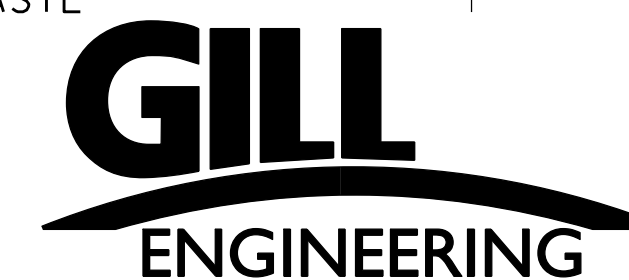
**ARCHEOLOGICAL & HISTORIC**

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

**CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY**

**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: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13a254legend.dgn  
PROJECT LEADER: A.SPORA  
DESIGNED BY: VTRANS  
LEGEND SHEET

PLOT DATE: 7/20/2020  
DRAWN BY: VTRANS  
CHECKED BY: VTRANS  
SHEET 7 OF 32

GPS CONTROL POINTS

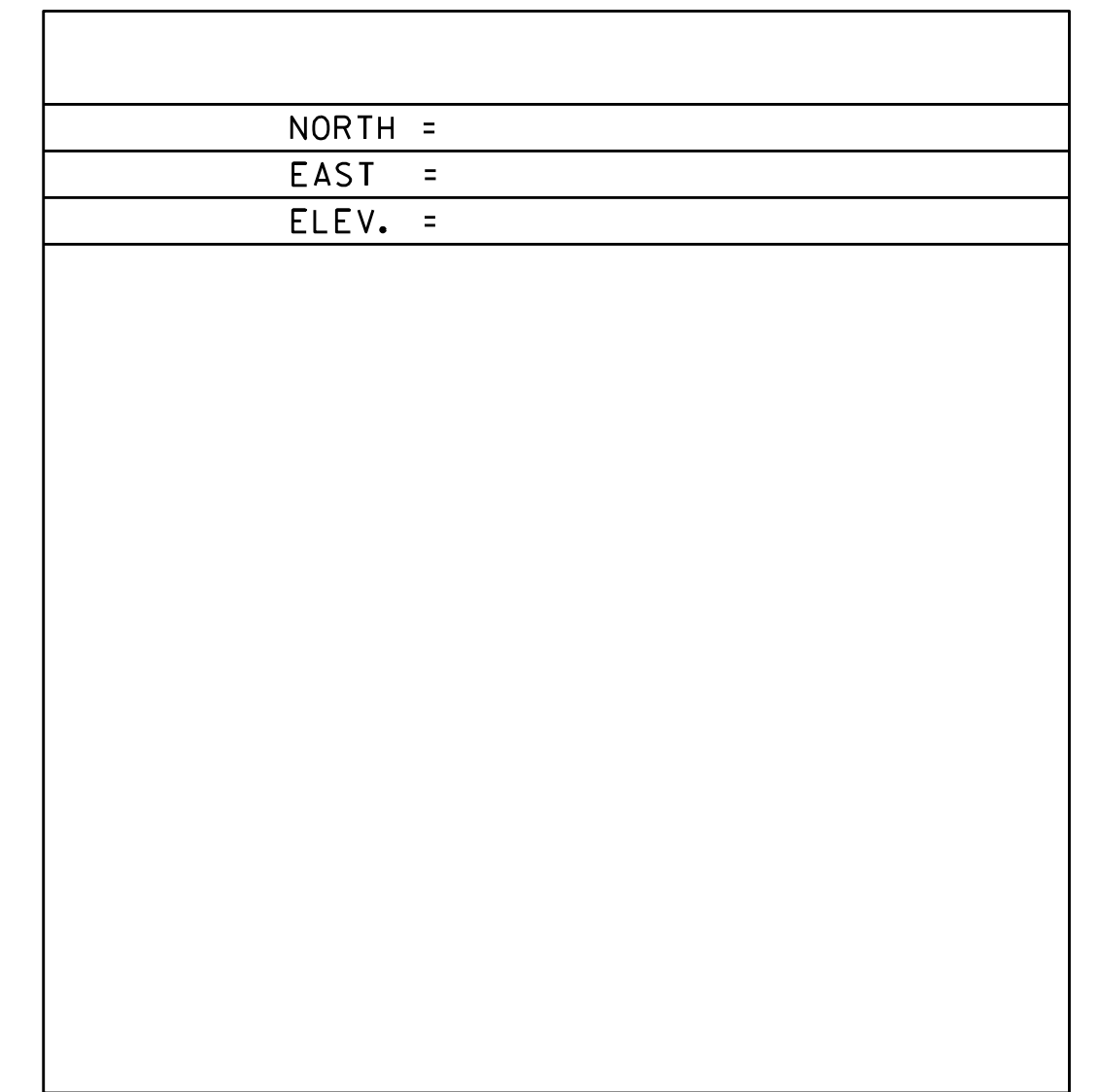
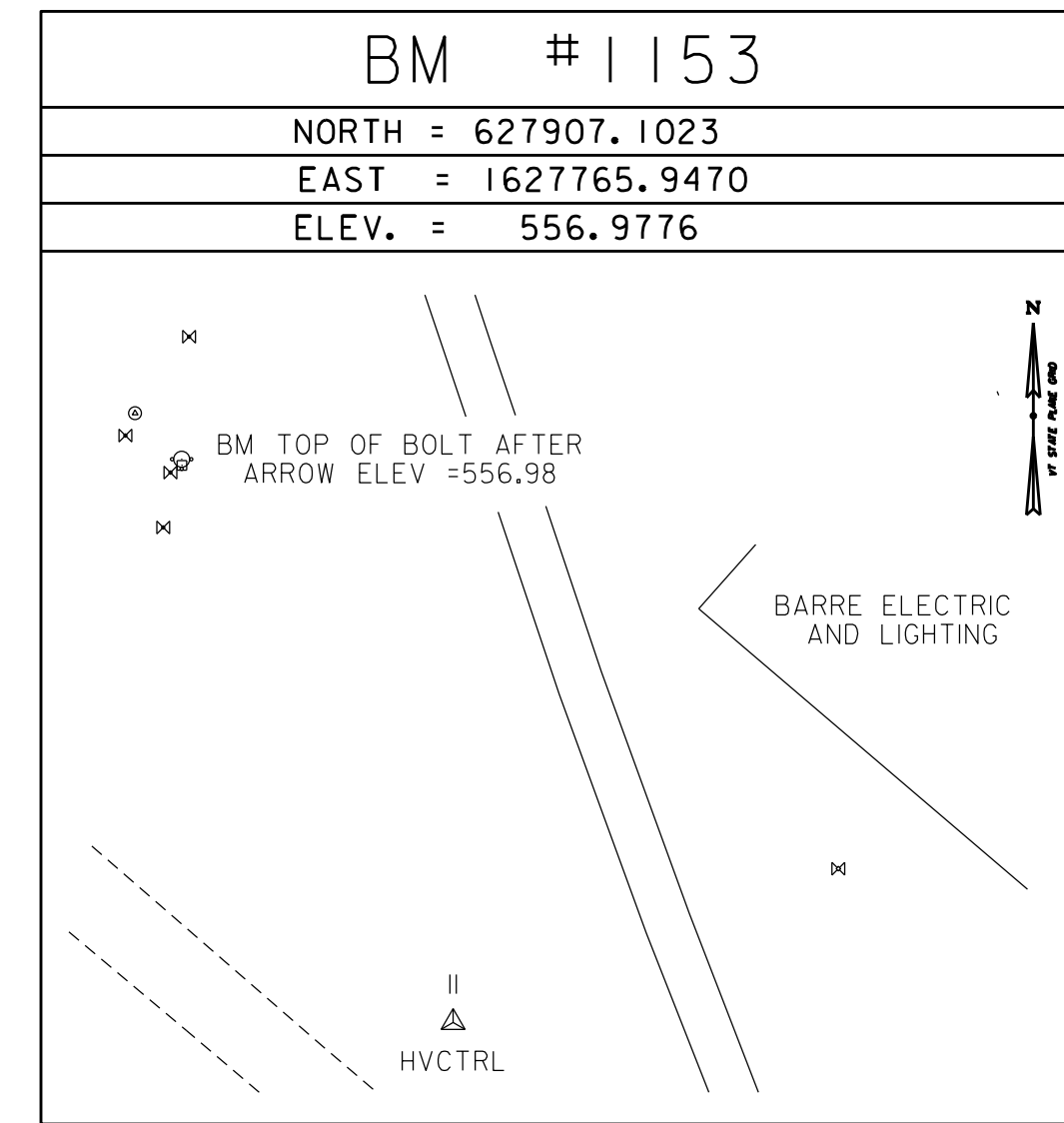
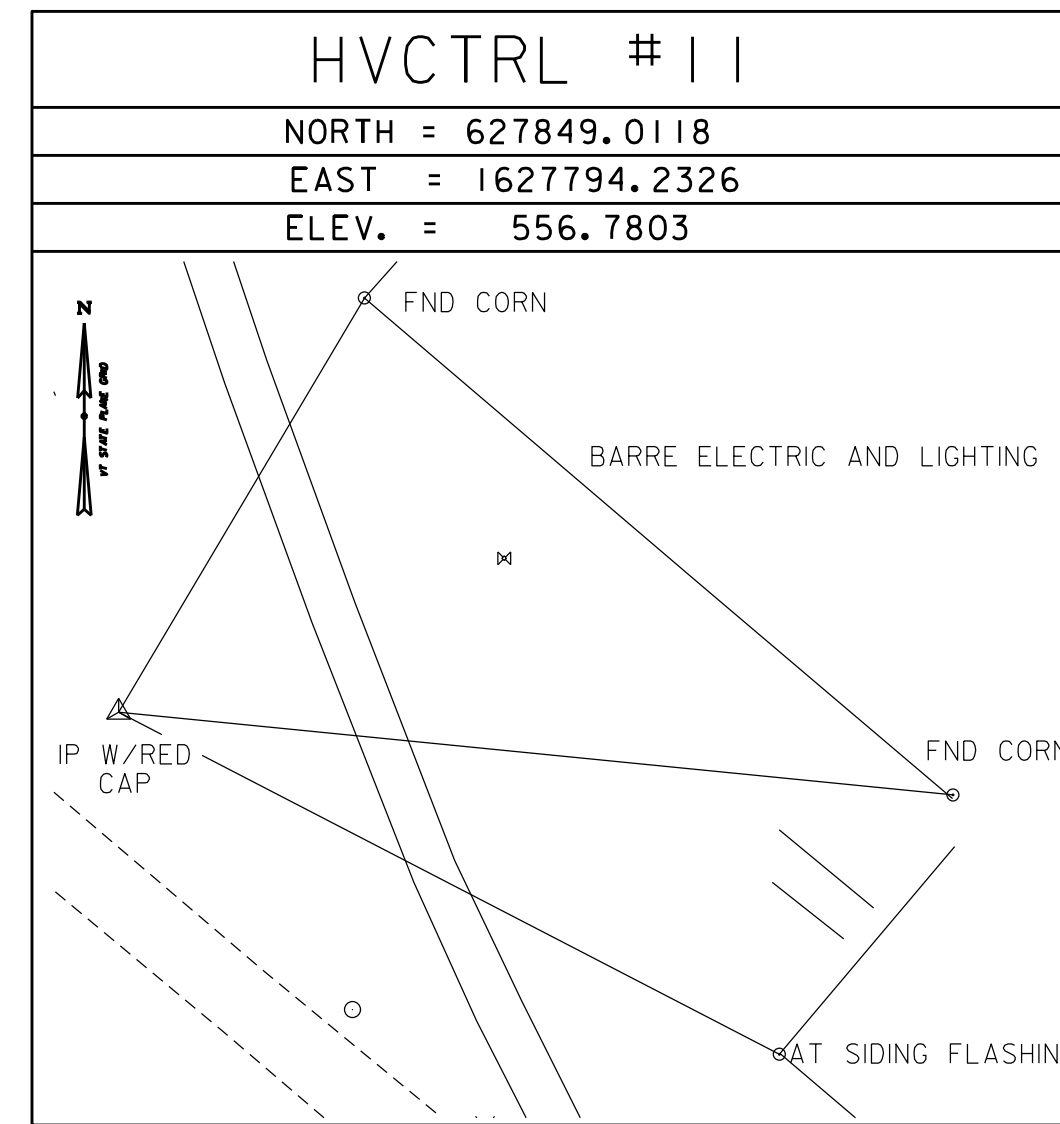
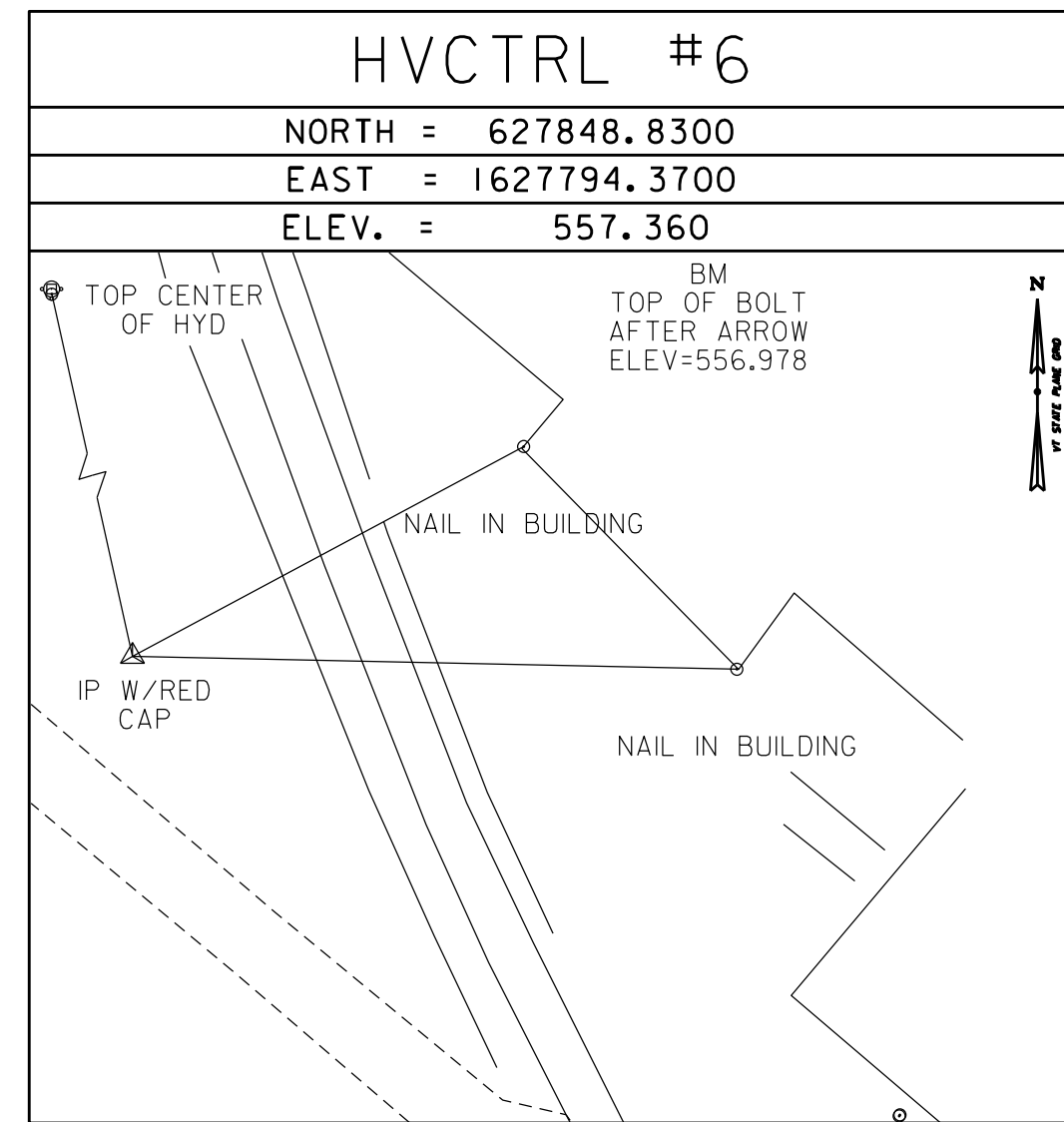
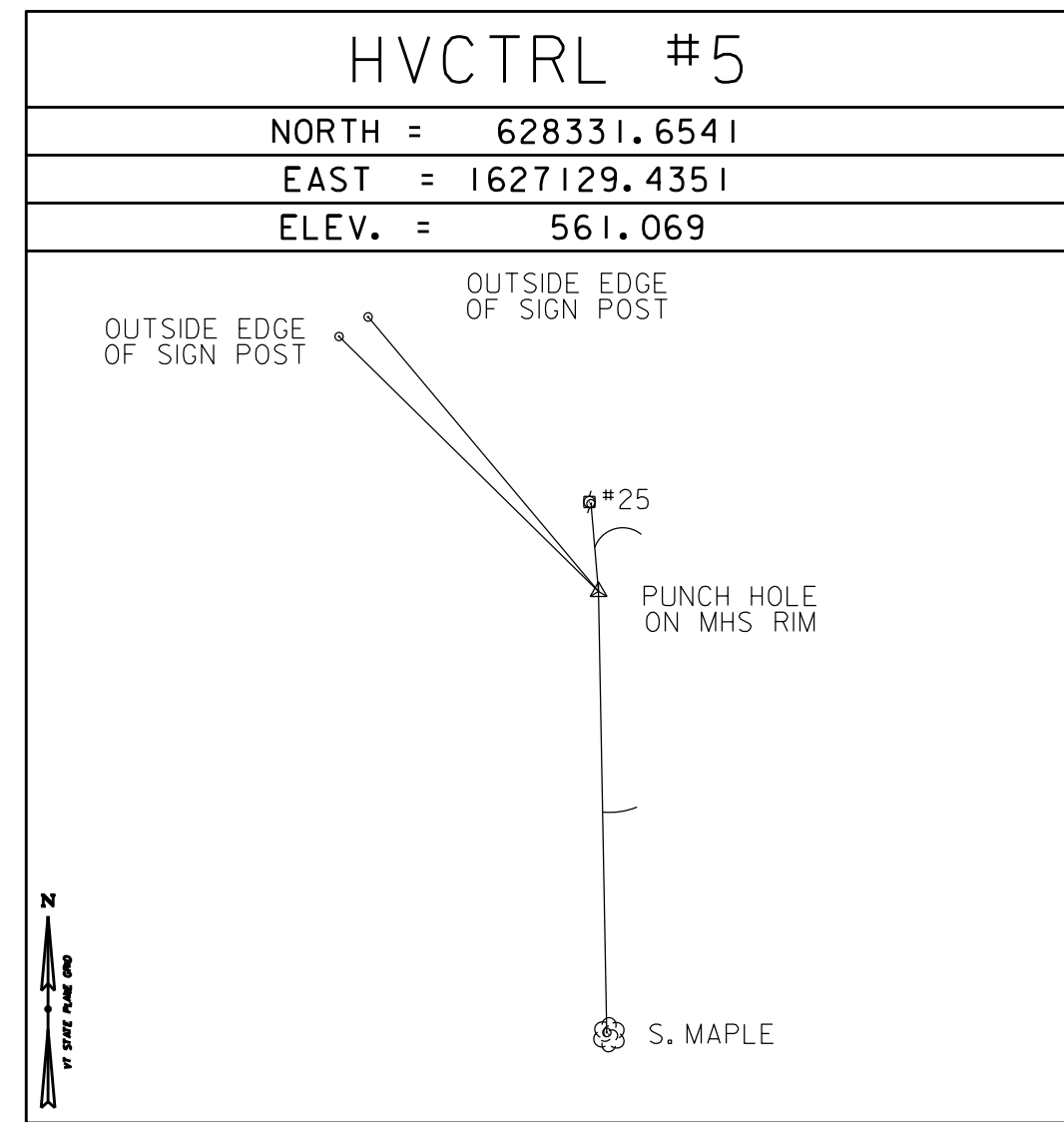
PT #1 LAB  
 NORTH = 631390.1500  
 EAST = 1626554.6500  
 ELEV. = 542.570

GENERAL LOCATION - BERLIN  
 TO REACH FROM THE INTERSECTION OF U.S. ROUTES 2 AND 302 IN MONTPELIER,  
 GO SOUTH ALONG U.S. ROUTE 302 FOR 1.0 MI (1.6 KM) TO A TRAFFIC LIGHT  
 AT A 4-WAY INTERSECTION. TURN LEFT AND GO EAST ALONG A PAVED ROAD  
 (PARTRIDGE ROAD) FOR 0.05 MI (0.08 KM) TO THE SITE OF THE MARK ON THE  
 LEFT IN A GRASS STRIP BETWEEN PARTRIDGE ROAD AND A PAVED PARKING LOT  
 FOR THE VERMONT AGENCY OF TRANSPORTATION MATERIALS AND RESEARCH  
 LABORATORY.  
 THE STATION IS LOCATED 57.5 M (188.6 FT) EAST OF THE EAST EDGE OF U.S.  
 ROUTE 302, 1.8 M (5.9 FT) NORTH OF THE NORTH EDGE OF PARTRIDGE ROAD,  
 0.9 M (3.0 FT) SOUTH OF THE SOUTH EDGE OF THE PAVED PARKING LOT, 20.9  
 (68.6 FT) NORTHWEST OF POLE NUMBER 1/01, 27.1 M (88.9 FT) NORTHEAST  
 OF POLE NUMBER 50/1/2, 0.45 M (1.48 FT) SOUTH OF A FIBERGLASS WITNESS  
 POST.

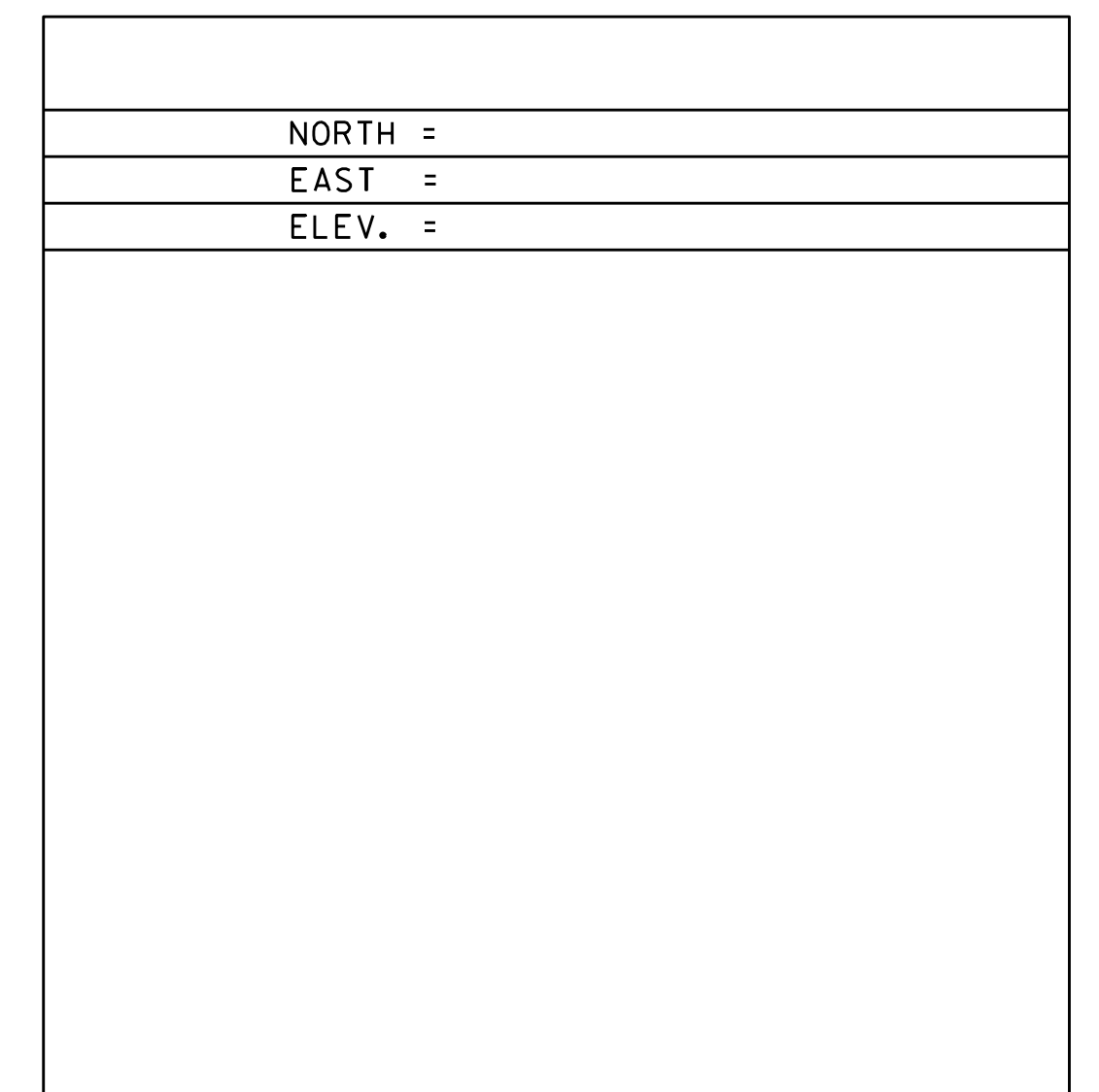
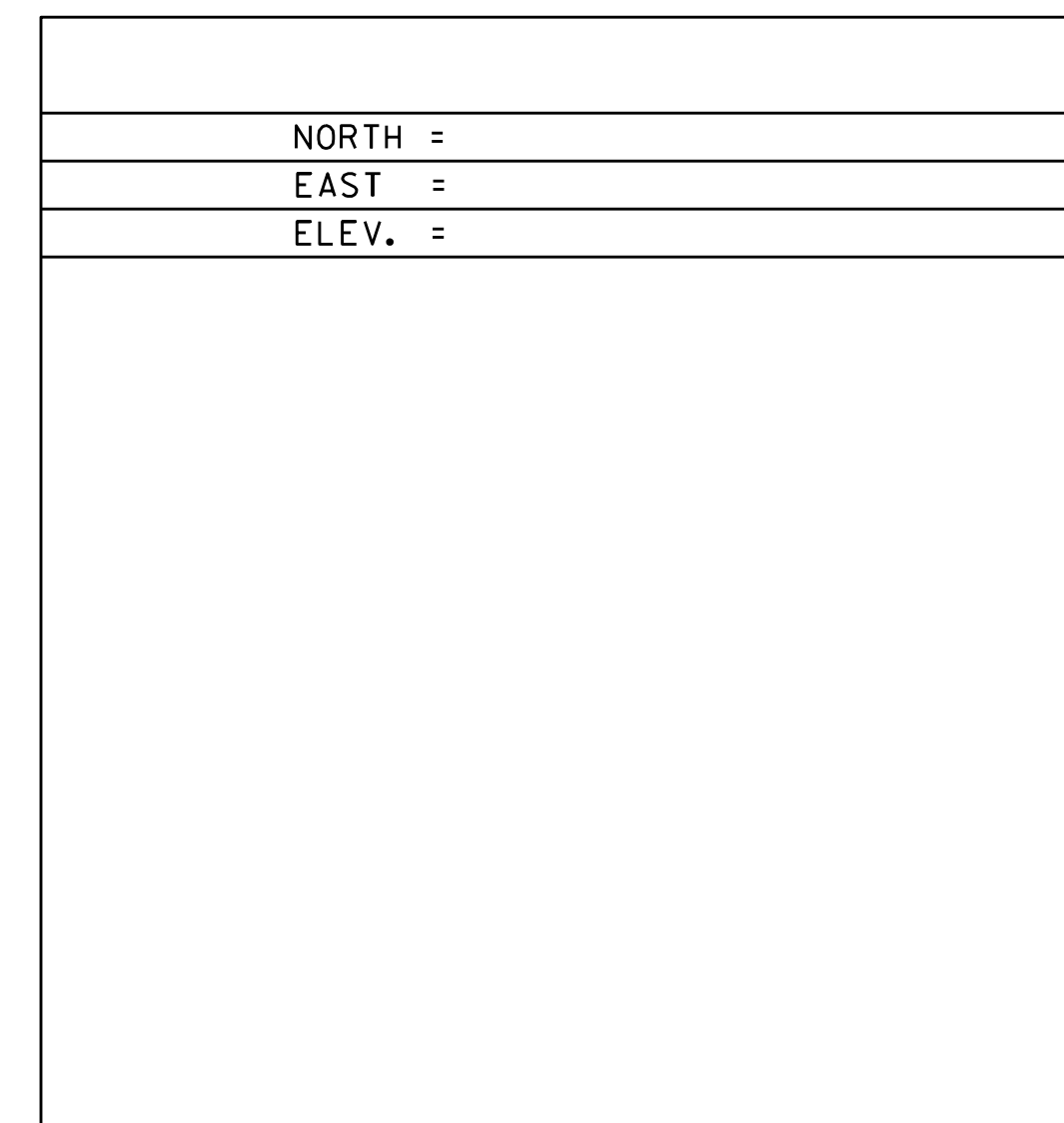
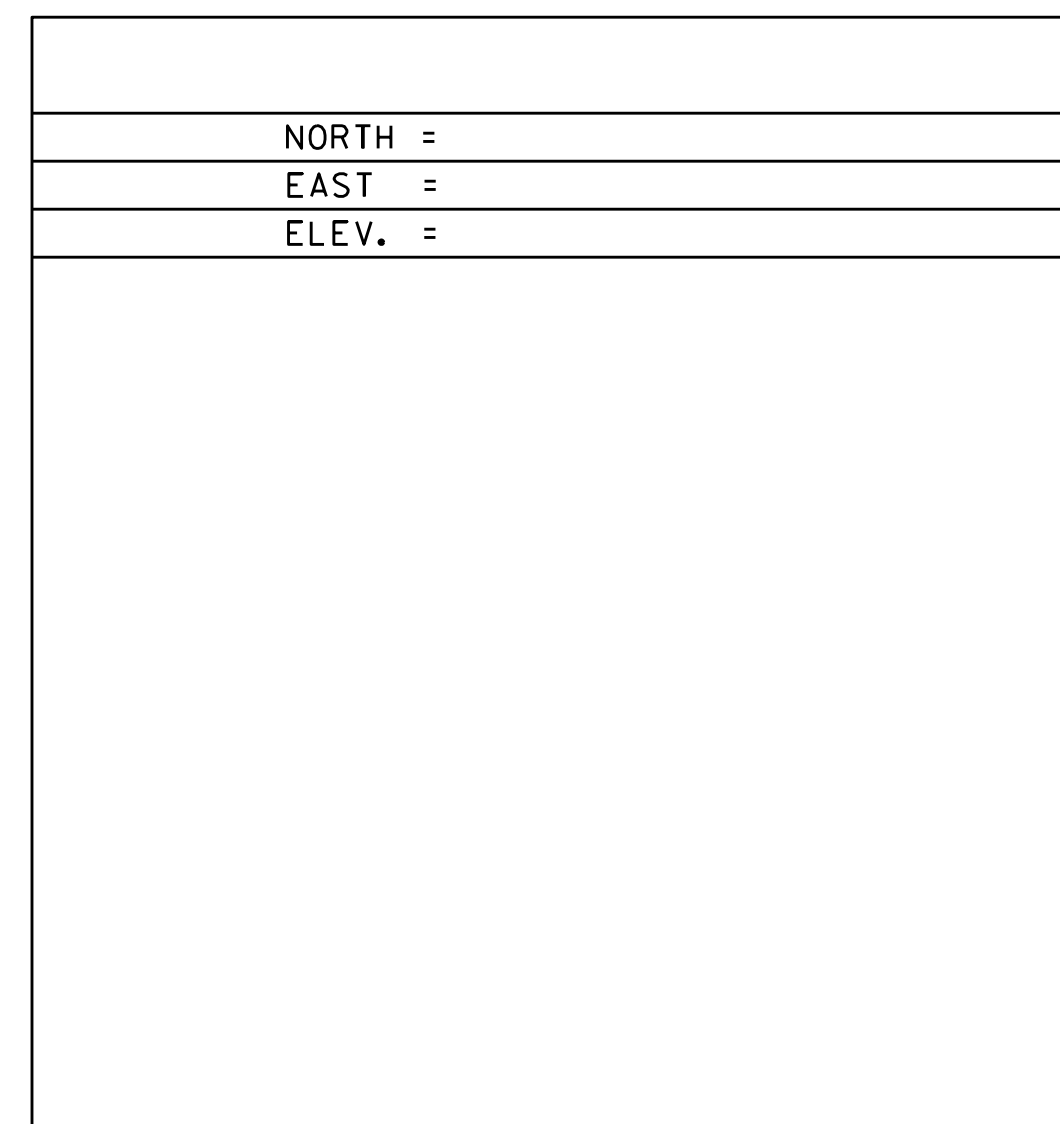
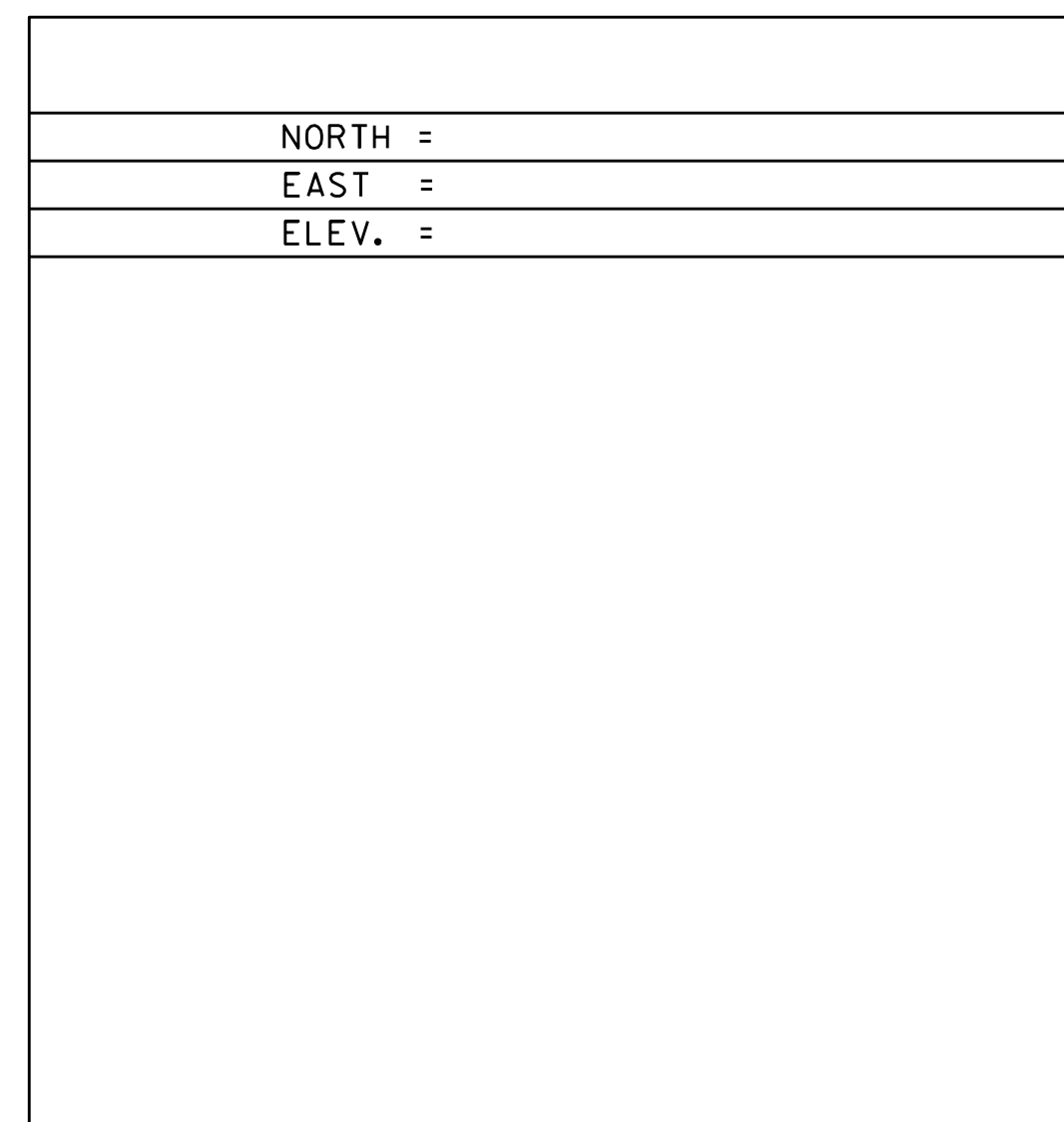
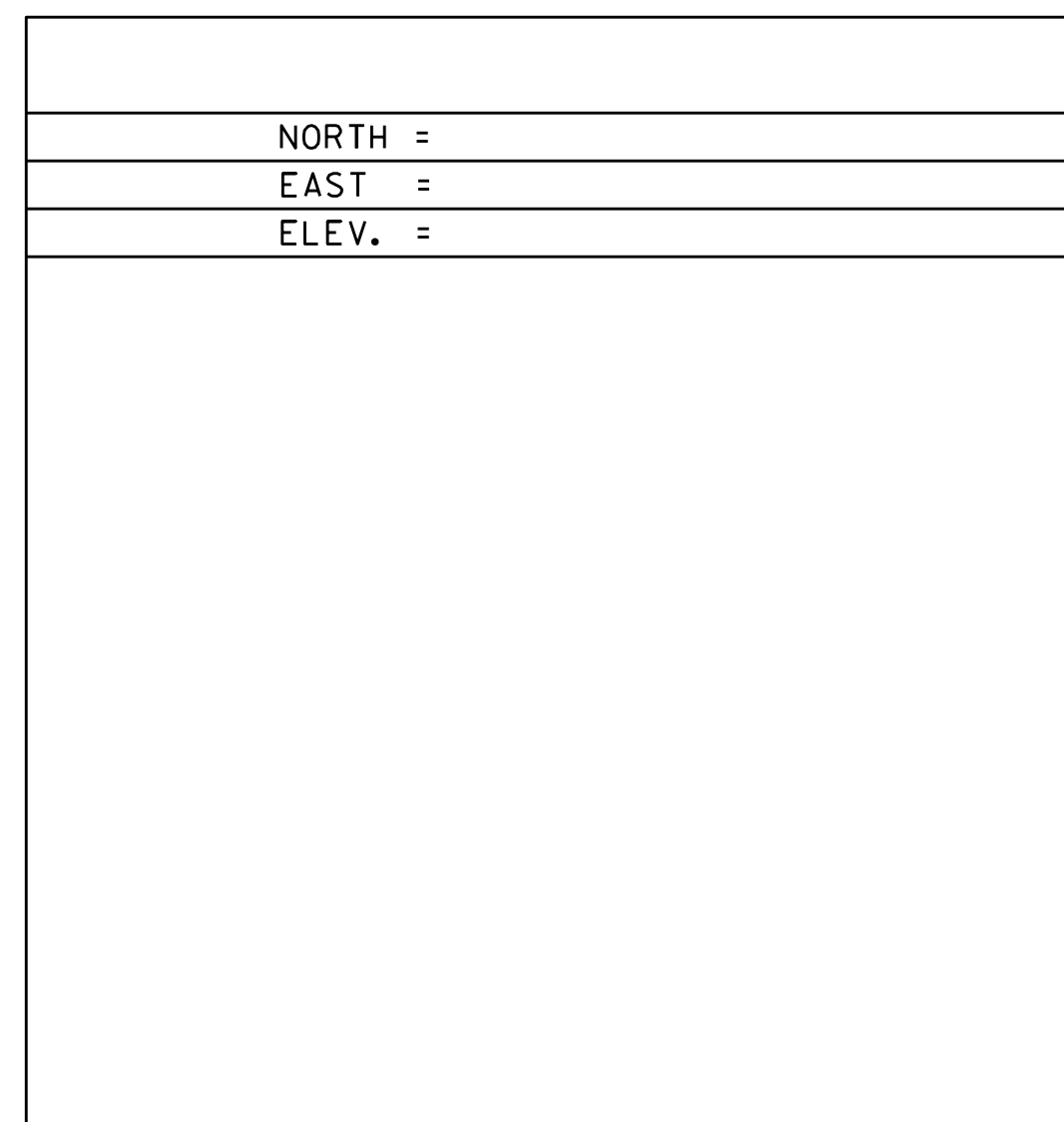
PT #3 SIMPLY X  
 NORTH = 630294.6540  
 EAST = 1626456.8400  
 ELEV. = 547.252

GENERAL LOCATION - BERLIN  
 TO REACH FROM THE INTERSECTION OF U.S. ROUTES 2 AND 302 IN MONTPELIER,  
 GO SOUTH ALONG U.S. ROUTE 302 FOR 1.0 MI (1.6 KM) TO A TRAFFIC LIGHT  
 AT A 4-WAY INTERSECTION; CONTINUE SOUTH ON 302 FOR 0.2 MI TO OVERLOOK DR  
 AND WHAT USED TO BE SIMPLY SUBS TWO ON THE RIGHT. THE MARK IS A STAMPED X  
 ON THE RIM OF A SEWER MANHOLE IN THE LAWN. THE MARK IS (42.6 FT) SE  
 OF THE CENTERLINE OF OVERLOOK DR AND (11.6 FT) NW OF THE EDGE OF RT 302.

TRAVERSE TIES



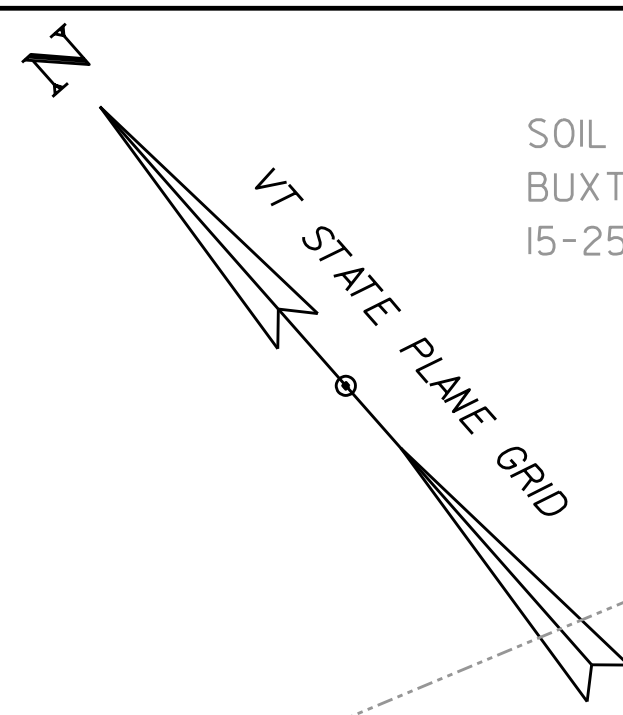
ALIGNMENT TIES



DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(2011)
ADJUSTMENT	COMPASS

PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: X13B254TL.DGN	PLOT DATE: 7/20/2020
PROJECT LEADER: W.PELLETTIER	DRAWN BY: H.MCGOWAN
DESIGNED BY: VTRANS	CHECKED BY: -----
TIE SHEET	SHEET 8 OF 32





SOIL CLASSIFICATION:  
BUXTON SILT LOAM  
15-25% SLOPES

SOIL CLASSIFICATION:  
WATER

SOIL CLASSIFICATION:  
URBAN LAND -  
UDIPSAMMENTS COMPLEX  
OCCASIONALLY FLOODED  
"K" FACTOR 0.05  
LOW ERODIBILITY

SOIL CLASSIFICATION:  
BUCKLAND LOAM  
VERY STONY  
15-35% SLOPES

SOIL CLASSIFICATION:  
WATER

AGE

CONNOR REALTY LLC

EXISTING  
RIGHT-OF-WAY

EXISTING RIGHT-OF-WAY

US ROUTE 302  
TO MONTPELIER

146+50

147+00

148+00

149+00

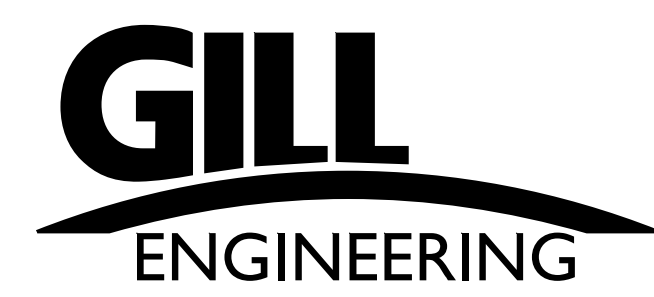
EXISTING  
RIGHT-OF-WAY

BUDZYN, FREDERICK & BETHANY

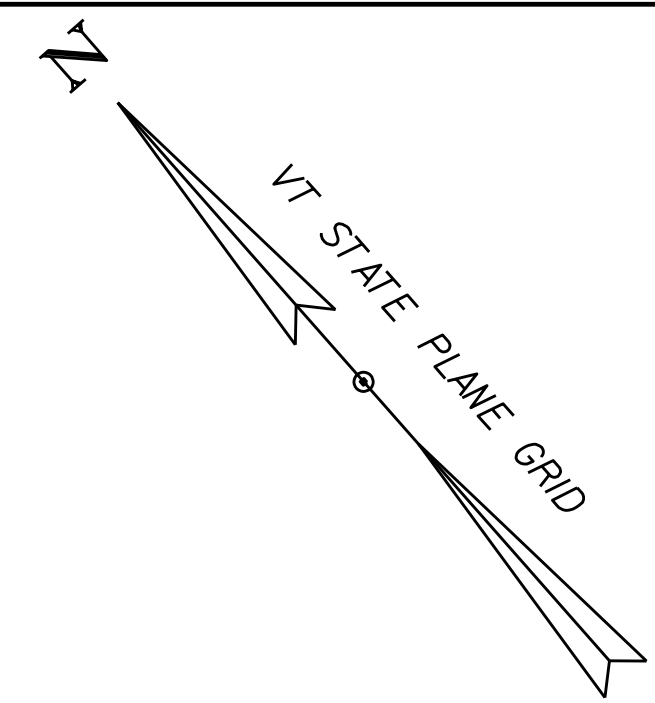
STATE OF VERMONT  
AGENCY OF TRANSPORTATION

MATCH LINE STA 149+25.00

SCALE 1" = 20' - 0"  
20 0 20



PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: C. BURNER
FILE NAME: z13b254existingconditions.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPORA	EXISTING CONDITIONS SHEET 1
DESIGNED BY: C. BURNER	SHEET 9 OF 32



STATE OF VERMONT  
DEPT. OF TRANSPORTATION

SOIL CLASSIFICATION:  
URBAN LAND-  
UDIPSAMMENTS COMPLEX  
OCCASIONALLY FLOODED  
"K" FACTOR 0.05  
LOW ERODIBILITY

MALONE 856 US ROUTE 302 PROPERTIES LLC

CIAMPI, GREGORY V.  
HEBERT, STELLA K.

EXISTING RIGHT-OF-WAY

EXISTING RIGHT-OF-WAY

MATCH LINE STA 149+25.00

150+00

151+00

152+00

153+00

154+00

154+28

US ROUTE 302  
TO BARRE

EXISTING RIGHT-OF-WAY

EXISTING RIGHT-OF-WAY

ANDREWS, ELLEN  
SHADOURI, PAUL  
CESARI, GENE

MALONE 921 ROUTE 302 PROPERTIES LLC

DEPT. OF TRANSPORTATION

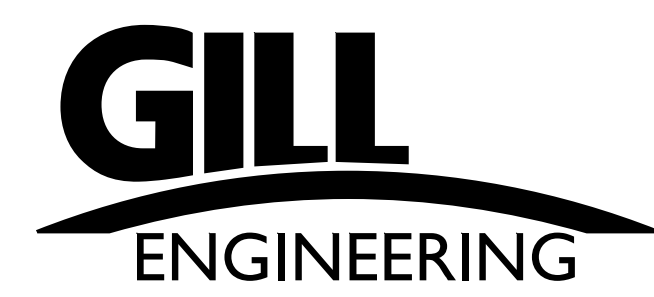
STEVENS BRANCH  
FLOW

SOIL CLASSIFICATION:  
BUCKLAND LOAM  
VERY STONY  
15-35% SLOPES

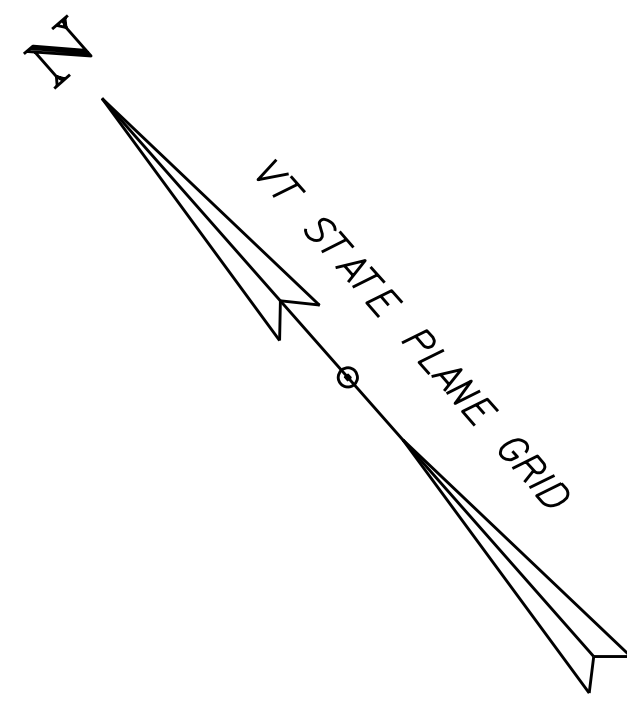
SOIL CLASSIFICATION:  
WATER

EXISTING BRIDGE INFO  
BUILT 1929, EXPANDED 1941  
SINGLE SPAN ROLLED BEAM  
STRUCTURE LENGTH = 64 FEET

SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: C.BURNER
FILE NAME: z13b254existingconditions.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPERA	SHEET 10 OF 32
DESIGNED BY: C. BURNER	
EXISTING CONDITIONS SHEET 2	



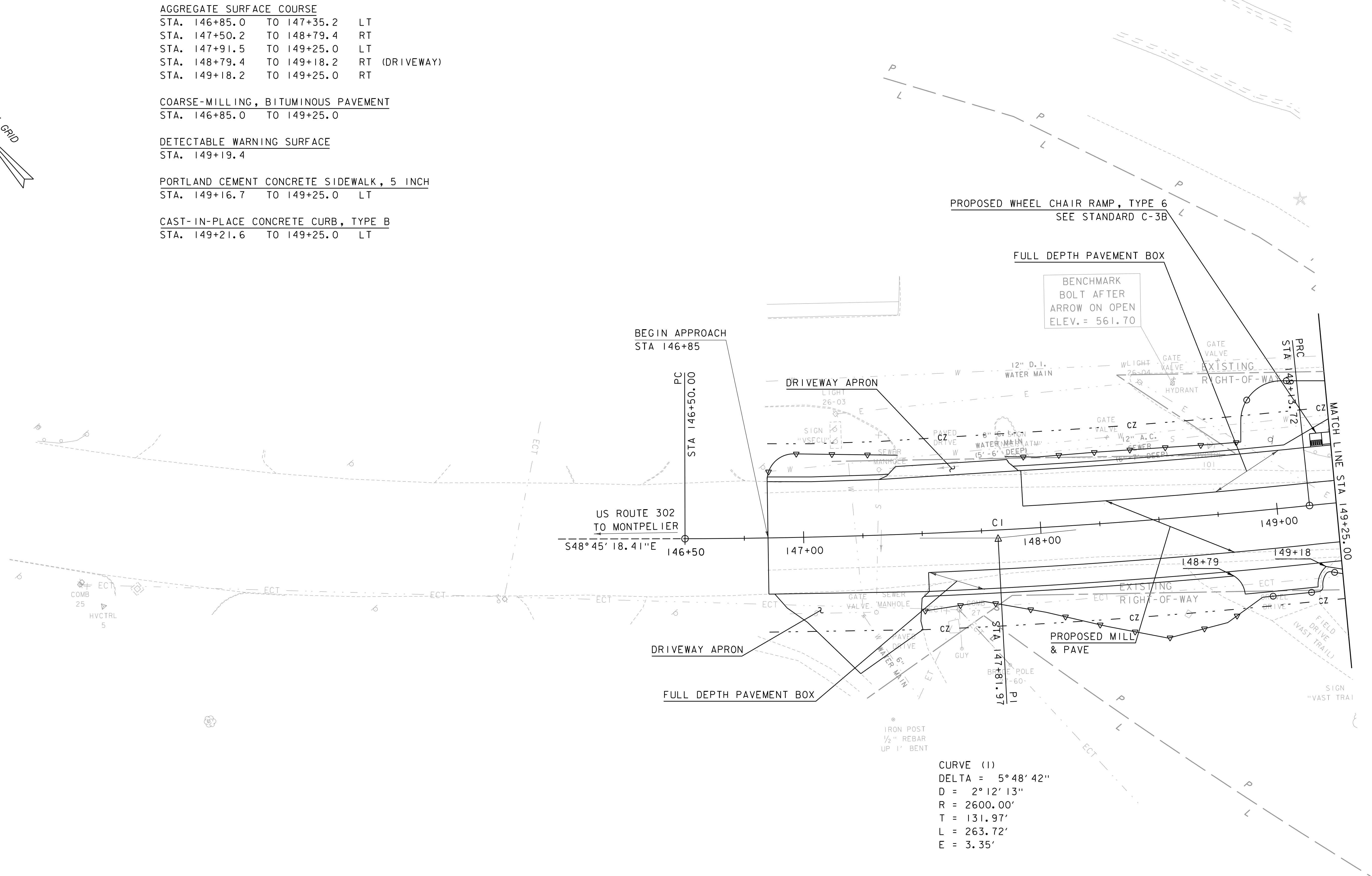
AGGREGATE SURFACE COURSE  
 STA. 146+85.0 TO 147+35.2 LT  
 STA. 147+50.2 TO 148+79.4 RT  
 STA. 147+91.5 TO 149+25.0 LT  
 STA. 148+79.4 TO 149+18.2 RT (DRIVEWAY)  
 STA. 149+18.2 TO 149+25.0 RT

COARSE-MILLING, BITUMINOUS PAVEMENT  
 STA. 146+85.0 TO 149+25.0

DETECTABLE WARNING SURFACE  
 STA. 149+19.4

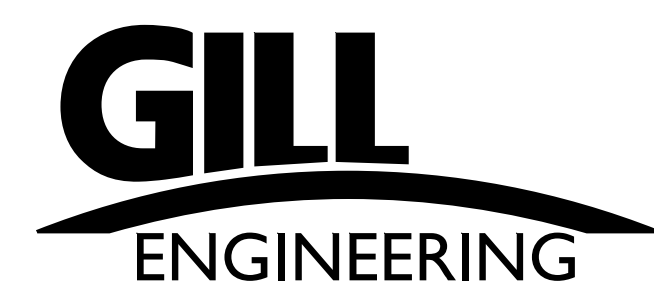
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
 STA. 149+16.7 TO 149+25.0 LT

CAST-IN-PLACE CONCRETE CURB, TYPE B  
 STA. 149+21.6 TO 149+25.0 LT



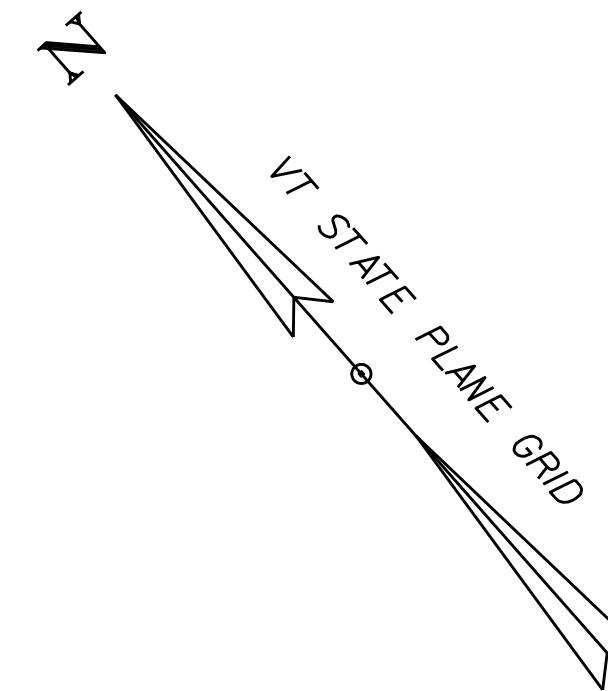
CURVE (1)  
 DELTA = 5°48'42"  
 D = 2°12'13"  
 R = 2600.00'  
 T = 131.97'  
 L = 263.72'  
 E = 3.35'

LAYOUT 1  
 SCALE 1" = 20' - 0"  
 20 0 20



PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: z13b254bdr.dgn	PLOT DATE: 7/20/2020
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: -----
LAYOUT 1	SHEET 11 OF 32

PERFORM TEST PITS OR SUBSURFACE INVESTIGATION PRIOR TO CONSTRUCTION TO LOCATE EXISTING WATERLINE. THE WATERLINE SHALL REMAIN IN PLACE AND SHALL NOT BE DISTURBED. ANY POTENTIAL CONFLICT SHALL BE IDENTIFIED BY THE CONTRACTOR AND REPORTED TO THE ENGINEER IMMEDIATELY.



**AGGREGATE SURFACE COURSE**  
 STA. 149+25.0 TO 149+82.0 LT  
 STA. 149+25.0 TO 149+96.4 RT  
 STA. 150+97.1 TO 152+44.5 LT  
 STA. 151+12.3 TO 151+49.4 RT

**CAST-IN-PLACE CONCRETE CURB, TYPE B**  
 STA. 149+25.0 TO 149+91.4 LT  
 STA. 149+81.0 TO 149+96.4 RT  
 STA. 150+90.4 TO 151+59.9 LT  
 STA. 151+12.2 TO 151+27.5 RT

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**  
 STA. 149+25.0 TO 149+93.5 LT  
 STA. 150+90.4 TO 151+64.8 LT

**DETECTABLE WARNING SURFACE**  
 STA. 151+62.4 LT

**REMOVAL AND DISPOSAL OF GUARDRAIL**  
 STA. 149+13.1 TO 150+11.6 LT  
 STA. 149+31.9 TO 150+22.0 RT  
 STA. 150+77.1 TO 151+63.3 LT  
 STA. 150+87.7 TO 151+50.0 RT

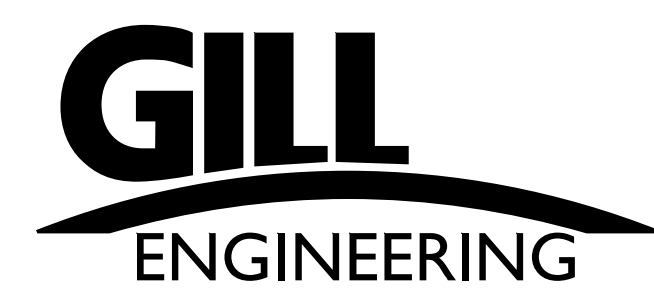
**CURVE (2)**  
 DELTA = 4°22'24"  
 D = 5°12'31"  
 R = 1100.00'  
 T = 42.00'  
 L = 83.96'  
 E = 0.80'

**CURVE (3)**  
 DELTA = 4°28'00"  
 D = 4°24'27"  
 R = 1300.00'  
 T = 50.70'  
 L = 101.34'  
 E = 0.99'

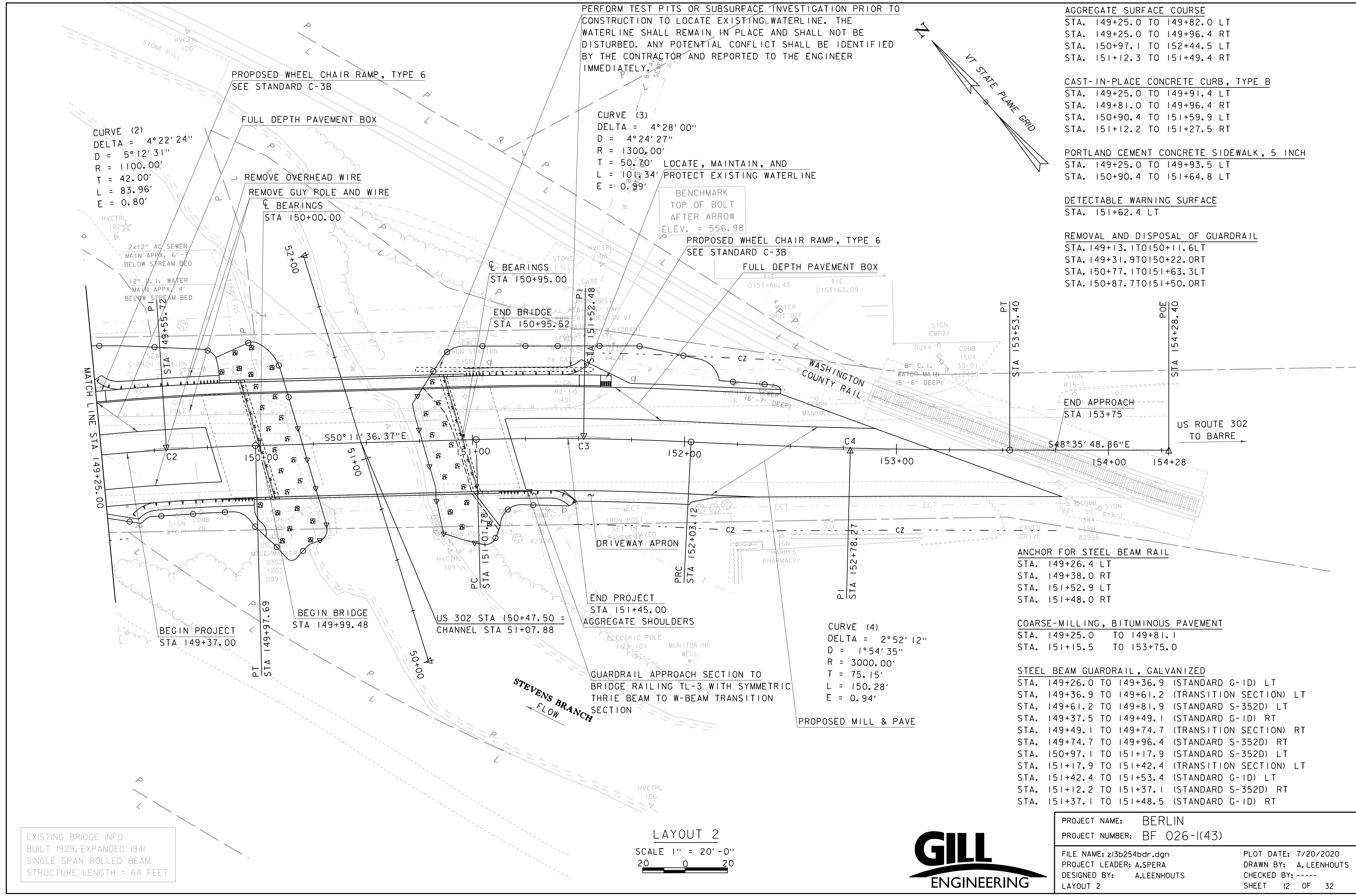
**CURVE (4)**  
 DELTA = 2°52'12"  
 D = 1°54'35"  
 R = 3000.00'  
 T = 75.15'  
 L = 150.28'  
 E = 0.94'

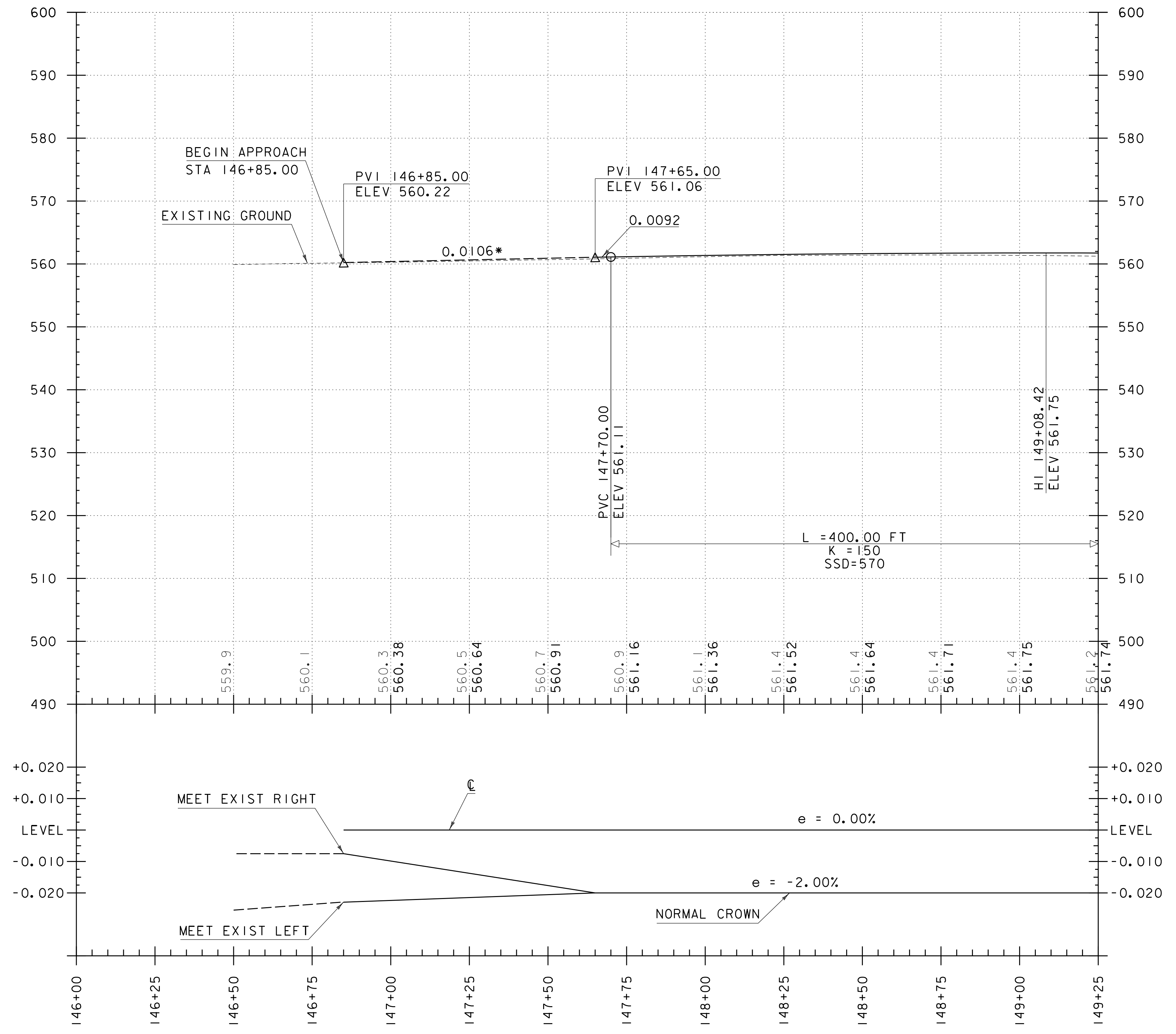
EXISTING BRIDGE INFO  
 BUILT 1929, EXPANDED 1941  
 SINGLE SPAN ROLLED BEAM  
 STRUCTURE LENGTH = 64 FEET

LAYOUT 2  
 SCALE 1" = 20' - 0"  
 20 0 20



PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-I(43)	
FILE NAME: z13b254bdr.dgn	PLOT DATE: 7/20/2020
PROJECT LEADER: A.SPERA	DRAWN BY: A.LEENHOUTS
DESIGNED BY: A.LEENHOUTS	CHECKED BY: -----
LAYOUT 2	SHEET 12 OF 32



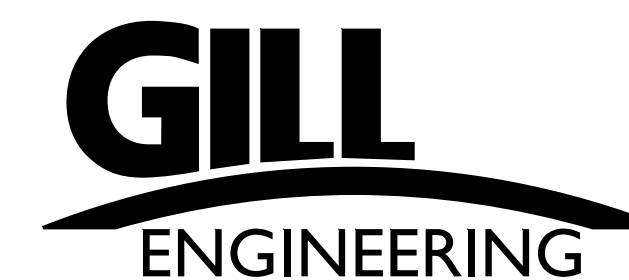


US ROUTE 302 PROFILE AND BANKING DIAGRAM

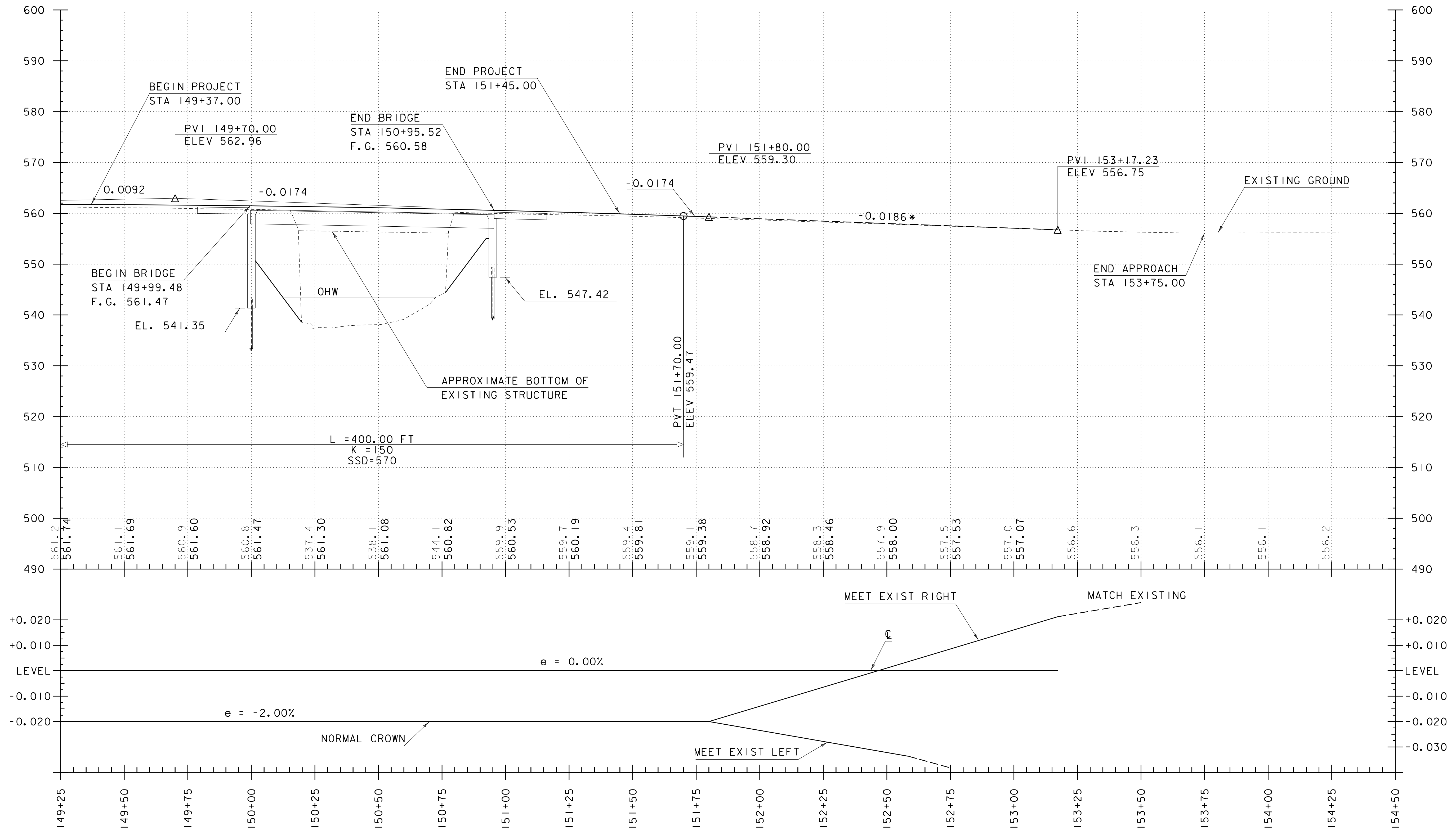
SCALE: HORIZONTAL 1"=20'  
 VERTICAL 1"=10'

*CROWLINE TRANSITION TO TIE INTO EXISTING CROSS SLOPE

NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GRADE ALONG  $\frac{1}{4}$   
 GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISHED GRADE ALONG  $\frac{1}{4}$



PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: z13b254bdr.dgn	PLOT DATE: 7/20/2020
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A.LEENHOUTS	CHECKED BY: -----
PROFILE 1	SHEET 13 OF 32

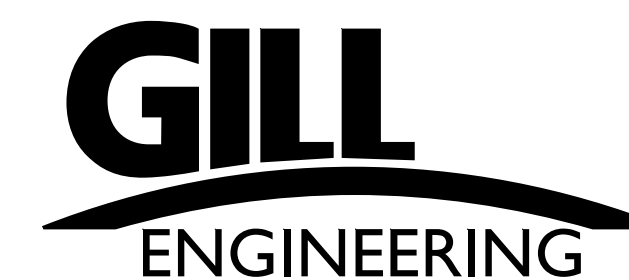


US ROUTE 302 PROFILE AND BANKING DIAGRAM

SCALE: HORIZONTAL 1"=20'  
VERTICAL 1"=10'

*CROWLINE TRANSITION TO TIE INTO EXISTING CROSS SLOPE

NOTE:  
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GRADE ALONG  $\square$   
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISHED GRADE ALONG  $\square$

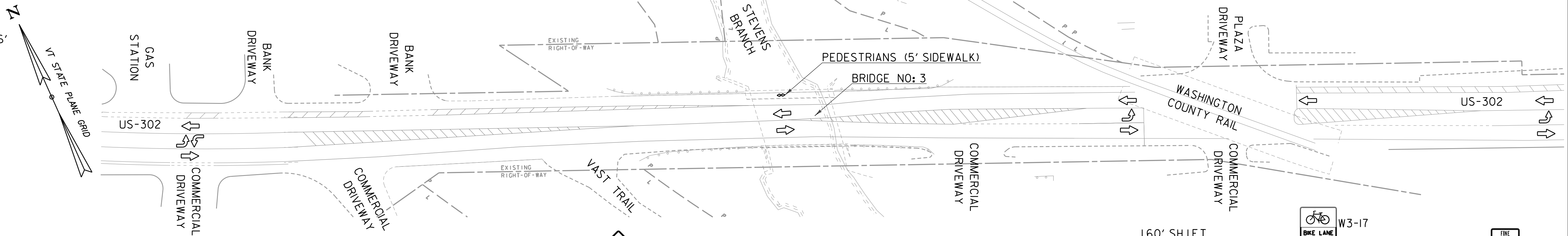


PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: A. LEENHOUTS
FILE NAME: z13b254bdr.dgn	DESIGNED BY: A. LEENHOUTS
PROJECT LEADER: A.SPORA	CHECKED BY: -----
PROFILE 2	SHEET 14 OF 32

# EXISTING

## EXISTING CONDITIONS

NOTE: 11' TRAVEL LANES WITH 6' SHOULDERS

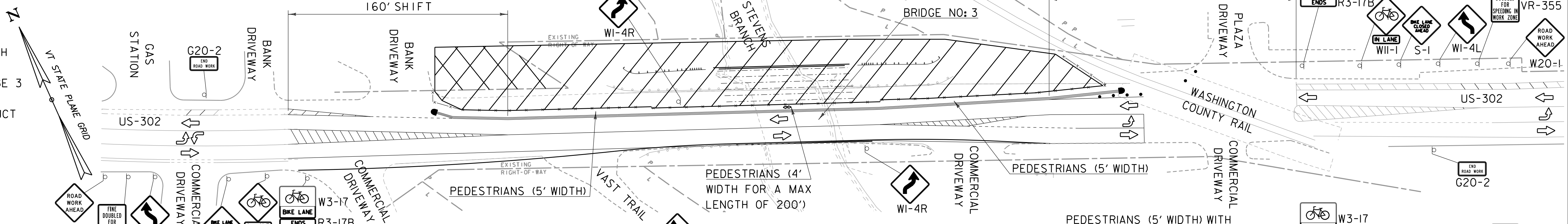


# STAGE 1

## NORTHERN PORTION OF BRIDGE 3 REPLACEMENT

-WITH TRAFFIC ON THE SOUTH SIDE OF US-302 CONSTRUCT NORTHERN PORTION OF BRIDGE 3 REPLACEMENT, ROADWAY IMPROVEMENTS, AND CONSTRUCT TEMP SIDEWALK

NOTE: 11' TRAVEL LANES

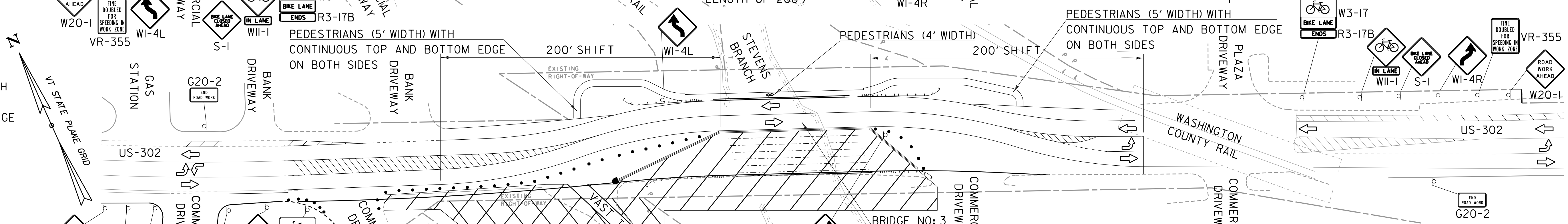


# STAGE 2

## SOUTHERN PORTION OF BRIDGE 3 REPLACEMENT

-WITH TRAFFIC ON THE NORTH SIDE OF US-302 CONSTRUCT SOUTHERN PORTION OF BRIDGE 3 REPLACEMENT

NOTE: 11' TRAVEL LANES

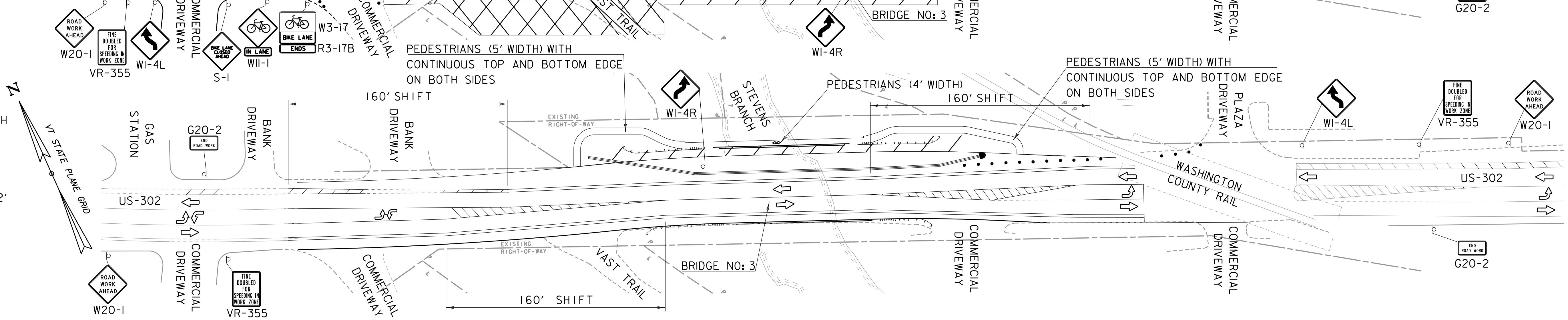


# STAGE 3

## BRIDGE 3 SIDEWALK

-WITH TRAFFIC ON THE SOUTH SIDE OF US-302 CONSTRUCT BRIDGE 3 SIDEWALK ON THE NORTH SIDE

NOTE: 11' TRAVEL LANES WITH 2' BUFFERS AND 5' BIKE LANES



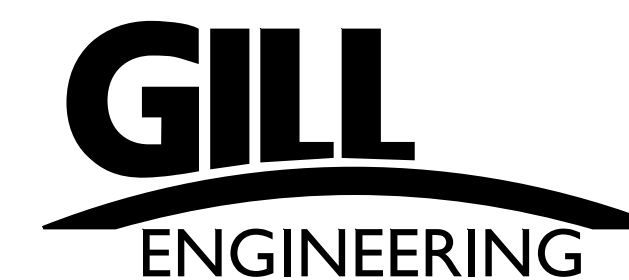
# STAGE 4

## COMPLETE CONSTRUCTION

-WITH TEMPORARY LANE CLOSURES DURING WORK HOURS, REMOVE TEMPORARY SIDEWALK, FINAL PAVING, TURF ESTABLISHMENT, INSTALL PAVEMENT MARKINGS, REMAINING ITEMS, AND FINAL CLEANUP

## LEGEND

- AREA OF CONSTRUCTION ACTIVITY
- STAGING/LAYDOWN AREA
- DIRECTION OF TRAFFIC
- CHAIN LINK FENCE
- TEMPORARY TRAFFIC BARRIER
- TEMPORARY IMPACT ATTENUATOR
- REFLECTORIZED DRUM
- SIGN



PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254staging.dgn  
PROJECT LEADER: A.SPERA  
DESIGNED BY: A. LEENHOUTS  
TRAFFIC STAGING

PLOT DATE: 7/20/2020  
DRAWN BY: P. O'REILLY  
CHECKED BY: -----  
SHEET 15 OF 32

DURABLE 4 INCH WHITE LINE, POLYUREA  
 STA. 146+85.0 TO 152+68.9 LT - SOLID EDGE  
 STA. 146+85.0 TO 153+03.1 RT - SOLID EDGE  
 STA. 151+69.7 TO 152+55.4 RT - DOTTED LANE LINE  
 STA. 152+55.4 TO 153+03.1 RT - SOLID LANE LINE

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 STA. 146+85.0 TO 151+69.7 LT - SOLID/DASHED TURN LANE  
 STA. 146+85.0 TO 151+69.7 RT - SOLID/DASHED TURN LANE  
 STA. 151+69.7 TO 153+03.1 CL - DOUBLE SOLID

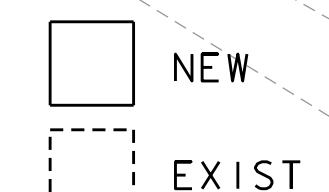
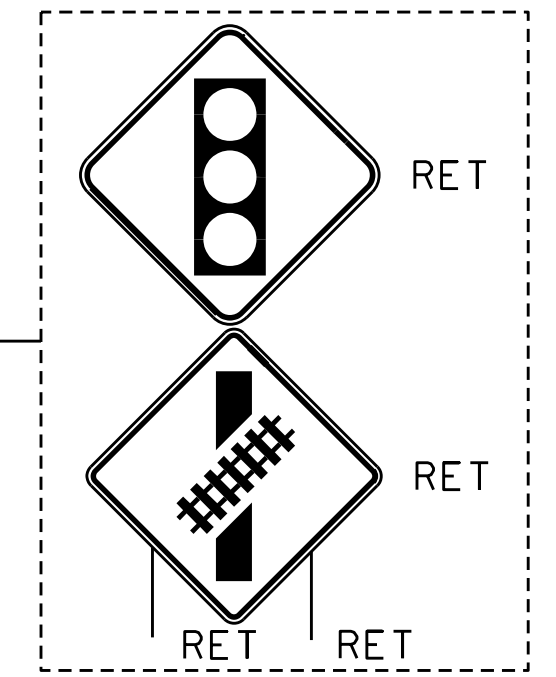
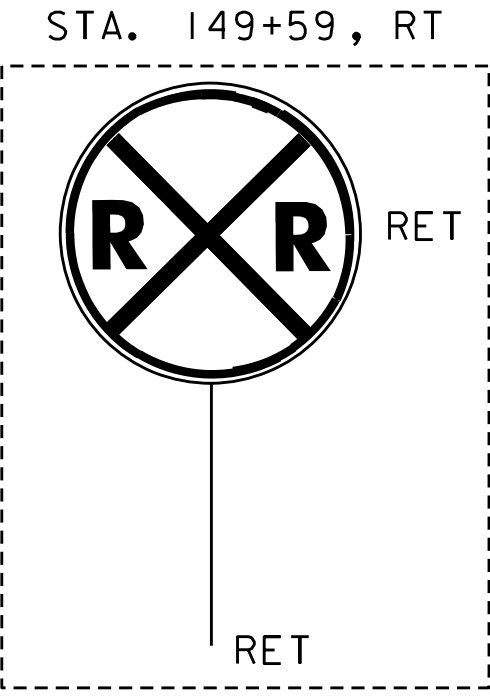
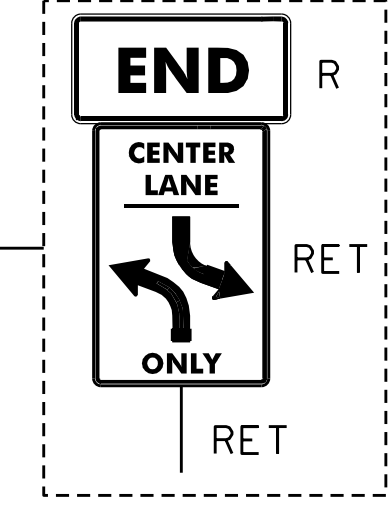
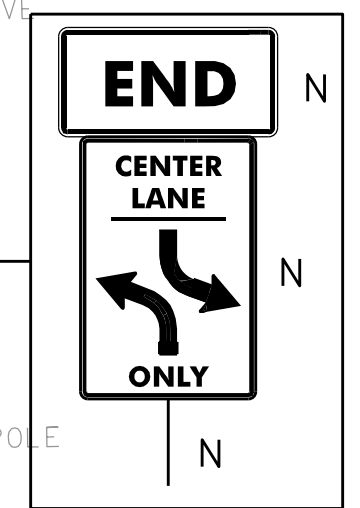
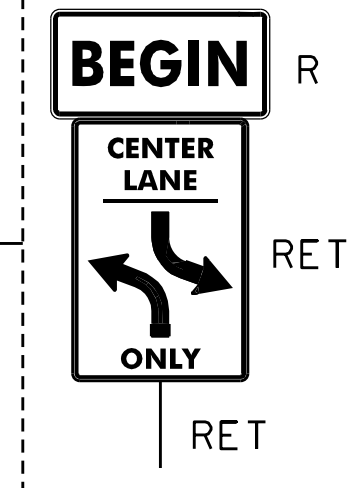
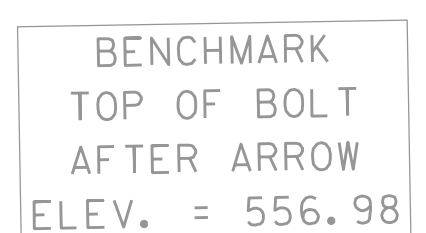
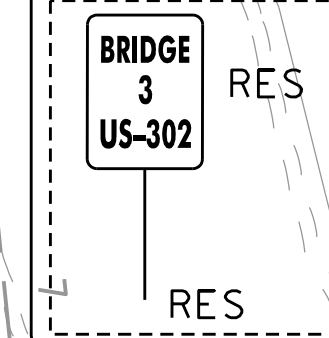
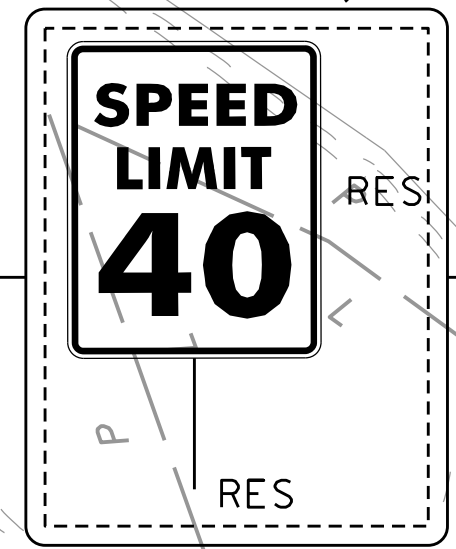
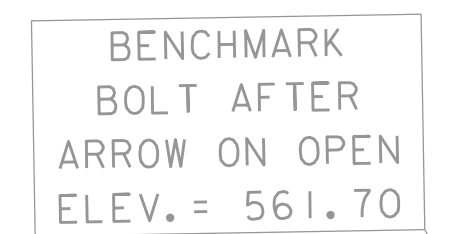
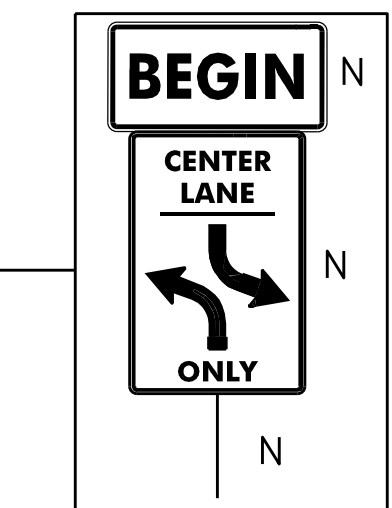
DURABLE 24 INCH STOP BAR, POLYUREA  
 STA. 153+03.1 RT

DELINEATOR WITH STEEL POST  
 STA. 149+25 LT (GREEN) STA. 146+83, LT  
 STA. 149+35 RT (BLUE)  
 STA. 151+49 RT (GREEN)  
 STA. 151+55 LT (BLUE)

DURABLE LETTER OR SYMBOL, POLYUREA  
 STA. 149+25.0 CL - CENTER LANE DOUBLE ARROW  
 STA. 151+50.0 CL - CENTER LANE DOUBLE ARROW  
 STA. 151+07.0 RT - "S,I,G,N,A,L"  
 STA. 151+46.0 RT - "A,H,E,A,D"  
 STA. 152+59.0 RT - ARROW  
 STA. 152+59.0 RT - ARROW  
 STA. 152+92.0 RT - ARROW  
 STA. 152+92.0 RT - ARROW  
 STA. 152+92.0 RT - BIKE LANE SYMBOL

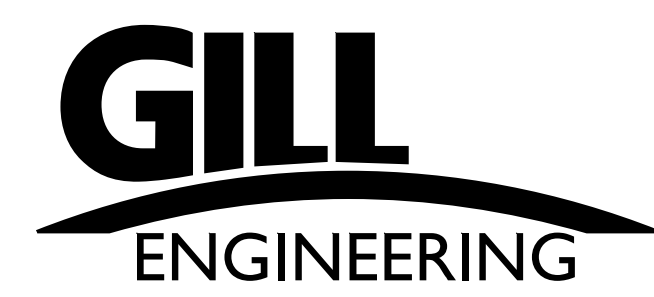
DURABLE RAILROAD CROSSING SYMBOL, POLYUREA  
 STA. 149+59.0 RT

STA. 151+75, LT

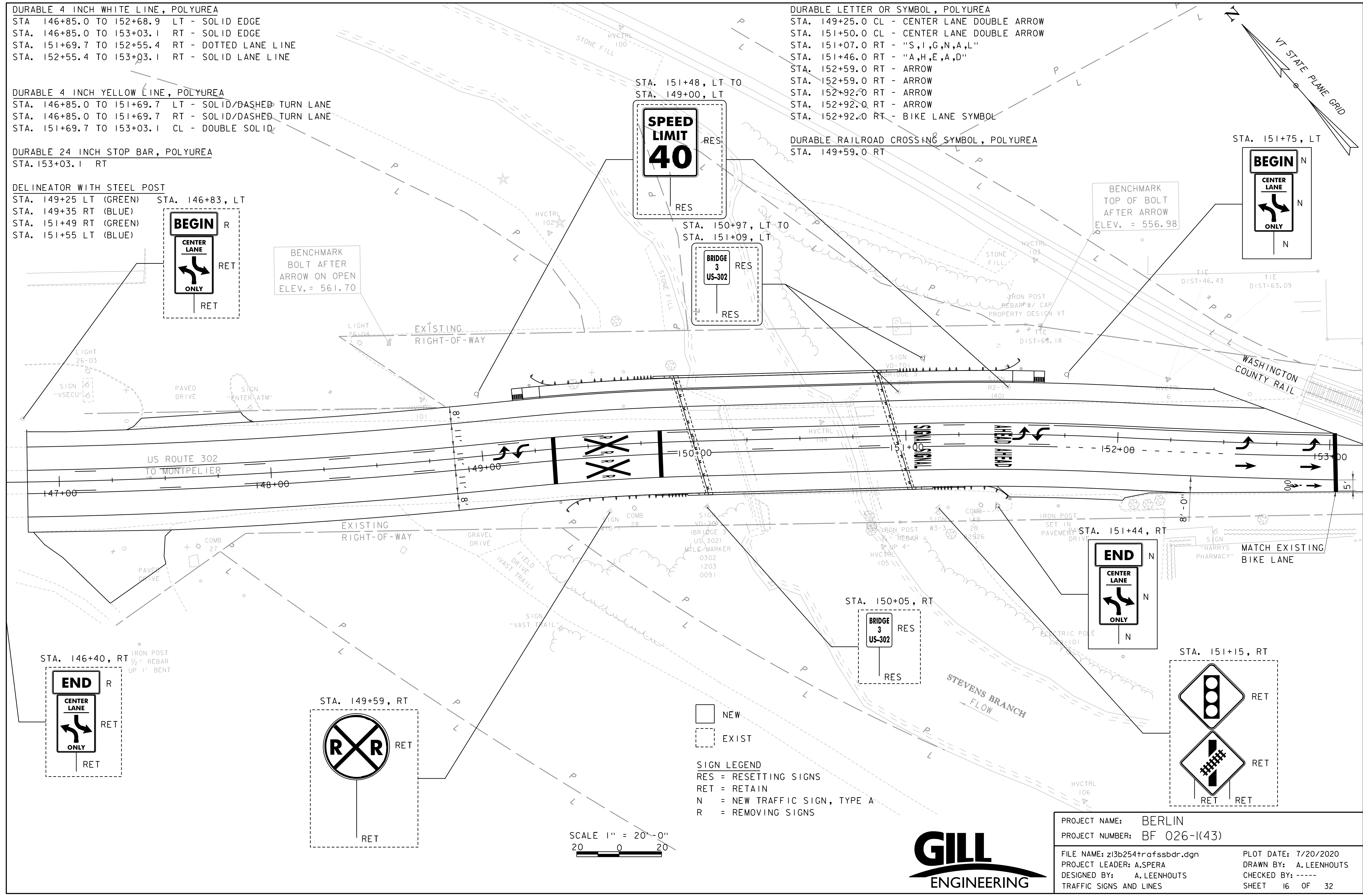


SIGN LEGEND  
 RES = RESETTING SIGNS  
 RET = RETAIN  
 N = NEW TRAFFIC SIGN, TYPE A  
 R = REMOVING SIGNS

SCALE 1" = 20'-0"  
 20 0 20



PROJECT NAME: BERLIN  
 PROJECT NUMBER: BF 026-1(43)  
 FILE NAME: z13b254tr of ssbdr.dgn  
 PROJECT LEADER: A.SPERA  
 DESIGNED BY: A. LEENHOUTS  
 TRAFFIC SIGNS AND LINES  
 PLOT DATE: 7/20/2020  
 DRAWN BY: A. LEENHOUTS  
 CHECKED BY: -----  
 SHEET 16 OF 32





**SOIL CLASSIFICATION**

**AASHTO**

- A1 Gravel and Sand
- A3 Fine Sand
- A2 Silty or Clayey Gravel and Sand
- A4 Silty Soil - Low Compressibility
- A5 Silty Soil - Highly Compressible
- A6 Clayey Soil - Low Compressibility
- A7 Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

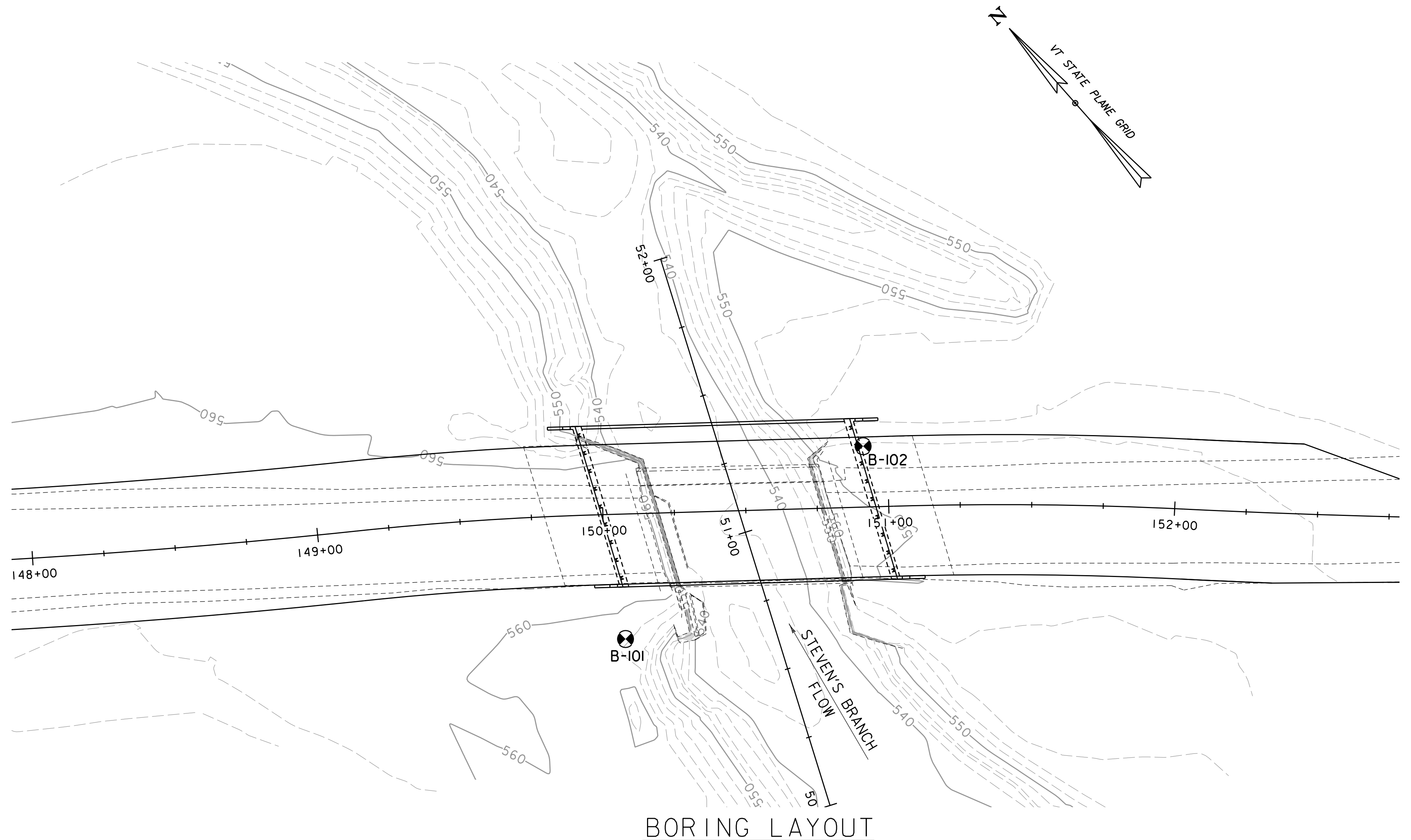
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

**COMMONLY USED SYMBOLS**

- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊗ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger  
Core Size 1 1/8"  
Core Size 1 3/8"  
Core Size 2 1/8"
- M Double Tube Core Barrel Used
- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index
- NP Non Plastic
- w Moisture Content (Dry Wgt. Basis)
- D Dry
- M Moist
- MTW Moist To Wet
- W Wet
- Sat Saturated
- Bo Boulder
- Gr Gravel
- Sa Sand
- Si Silt
- Cl Clay
- HP Hardpan
- Le Ledge
- NLTD No Ledge To Depth
- CNPF Can Not Penetrate Further
- TLOB Top of Ledge Or Boulder
- NR No Recovery
- Rec. Recovery
- %Rec. Percent Recovery
- ROD Rock Quality Designation
- CBR California Bearing Ratio
- < Less Than
- > Greater Than
- R Refusal (N > 100)
- VTSPG NAD83 - See Note 7

**COLOR**

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gr'y	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



**BORING LAYOUT**

SCALE 1" = 25'-0"  
25 0 25

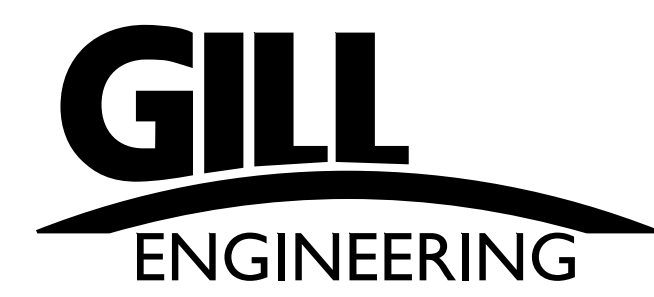
BORING LOCATIONS					
BORING	NORTHING	EASTING	STATION	OFFSET	BEDROCK ELEVATION
B-101	627936.90	1627584.40	43+23	36.60	468.3
B-102	627932.40	1627691.20	44+8	-29.20	447.6

**DEFINITIONS (AASHTO)**

- BEDROCK (LEDGE)** - Rock in its native location of indefinite thickness.
- BOULDER** - A rock fragment with an average dimension > 12 inches.
- COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL** - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND** - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).
- SILT** - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED** - Alternate layers of silt and clay.
- HARDPAN** - Extremely dense soil, cemented layer, not softened when wet.
- MUCK** - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT** - Weight of water divided by dry weight of soil.
- FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE** - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP** - Inclination of bed with a horizontal plane.

**GENERAL NOTES**

- The subsurface explorations shown herein were made between June 24, 2019 and July 2, 2019 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.



PROJECT NAME:	BERLIN
PROJECT NUMBER:	BF 026-1(43)
FILE NAME:	z13b254bor.dgn
PROJECT LEADER:	A.SPERA
DESIGNED BY:	Y.SIMONSON
BORING INFORMATION SHEET	
PLOT DATE:	7/20/2020
DRAWN BY:	Y.SIMONSON
CHECKED BY:	-----
SHEET	17 OF 32

Boring Crew: Brochu, Emerson, Gonyaw  
Date Started: 6/24/19 Date Finished: 6/26/19  
VTSPG NAD83: N 627936.90 ft E 1627584.40 ft  
Station: 43+23 Offset: 36.60  
Ground Elevation: 558.3 ft

Casing Type: WB I.D.: 4 in  
Sampler SS I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK AUTO CE = 1.52

Groundwater Observations  
Date: 06/26/19 Depth (ft): 6.0 Notes: During drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Corr. Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-0.8	A-1-b	GrSa, brn, Moist, Rec. = 0.8 ft				2-4-4-5 (8)	6.7	28.4	51.8	19.8
0.8-1.0	A-2-4	GrSiSa, blk, Moist, Rec. = 1.0 ft				3-3-2-2 (5)	13.1	23.1	51.8	25.1
1.0-1.5	A-2-4	SiSa, blk, Moist, Rec. = 0.5 ft, Cleanout NXDC 6.3'-7'				2-1-2-3 (5)	19.5	11.8	55.5	32.7
1.5-2.0	A-4	SaSi, brn, Moist, Rec. = 1.0 ft				4-7-9-23 (16)	19.4	5.5	35.2	59.3
2.0-3.5	A-4	SaSi, brn, Moist, Rec. = 1.5 ft				18-18-20-25 (38)	16.3	6.5	34.9	58.6
3.5-11.4	A-4	SaSi, brn, Moist, Rec. = 1.5 ft, Cleanout NXDC 11.4'-12'				15-25-26-20 (51)	15.5	10.0	39.5	50.5
11.4-13.5	A-4	Si, brn, Moist, Rec. = 1.5 ft, Cleanout NXDC 13.5'-14'				21-32-33-R02" (65)	16.4	8.4	25.5	66.1
13.5-15.4	A-1-b	Gr Broken rock was within sample, blk, Dry, Rec. = 0.2 ft, Cleanout NXDC 15.4'-16'				15-23-36-R (59)	3.3	77.7	16.8	5.5
15.4-19.8	A-4	GrSaSi, gry, Moist, Rec. = 0.9 ft, Cleanout NXDC 19.8'-21'				35-46-R02" (R)	12.2	28.7	30.7	40.6
19.8-30.3	A-4	SaGrSi, gry, Moist, Rec. = 0.9 ft, Cleanout NXDC 30'-31'				35-49-R02" (R)	11.8	24.7	22.4	52.9
30.3-33.2	A-4	SaGrSi, gry, Moist, Rec. = 0.9 ft				48-49-R01" (R)	12.6	27.4	25.4	47.2
33.2-40.6	A-4	Si, gry, Moist, Rec. = 1.2 ft, Cleanout NXDC 40.6'-41'				10-20-30-35 (50)	18.5	10.3	15.7	74.0
40.6-45.2	A-4	SaSi, gry, Moist, Rec. = 0.9 ft, Cleanout NXDC 45.2'-46'				15-R05" (R)	12.4	13.2	25.1	61.7
45.2-50.1	A-4	SaSi, gry, Moist, Rec. = 1.2 ft, Cleanout NXDC 50'-51'				25-47-R04" (R)	16.9	3.7	22.4	73.9
50.1-59.9	A-4	SaSi, gry, Moist, Rec. = 0.9 ft, Cleanout NXDC 59.9'-60'				42-R00" (R)	9.7	12.1	35.1	52.8
59.9-70.2	A-4	SaSi, gry, Moist, Rec. = 0.9 ft, Cleanout NXDC 70.2'-71'				25-R05" (R)	11.6	17.9	30.2	51.9

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

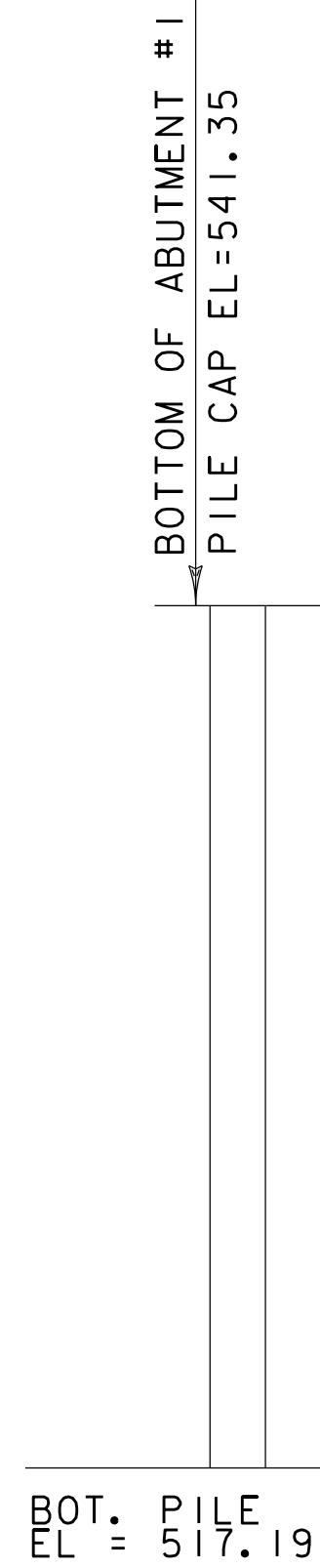
Boring Crew: Brochu, Emerson, Gonyaw  
Date Started: 6/24/19 Date Finished: 6/26/19  
VTSPG NAD83: N 627936.90 ft E 1627584.40 ft  
Station: 43+23 Offset: 36.60  
Ground Elevation: 558.3 ft

Casing Type: WB I.D.: 4 in  
Sampler SS I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK AUTO CE = 1.52

Groundwater Observations  
Date: 06/26/19 Depth (ft): 6.0 Notes: During drilling

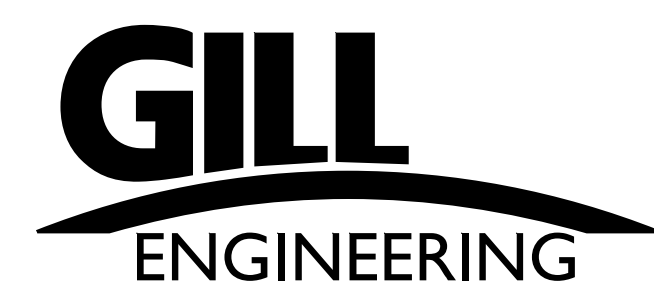
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Corr. Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
70-80.5	A-4	SiSa, gry, Moist, Rec. = 1.4 ft, Cleanout NXDC 80.5'-81'				20-35-R (R)	9.7	10.8	46.8	42.4
80.5-87.5	A-4	Si, gry, Moist, Rec. = 0.7 ft				37-R05" (R)	20.7	3.0	15.1	81.9
90.0-95.0	R-1	90.0 ft - 95.0 ft, Dark gray to black, Sandy PHYLLITE, Cleavage planes dip ~ 40° and are mimicked by close, slightly open fractures. Small <0.5mm sulfides are strewn throughout sample and weather to a bright orange at open joints. Hard, Slightly weathered, Fair rock, NXMDC, RMR = 43	98 (61)		3	Top of Bedrock @ 90.0 ft				
95.0-100.0	R-2	95.0 ft - 100.0 ft, Dark gray to black, Sandy PHYLLITE, Cleavage planes dip ~ 40° and are mimicked by close, slightly open fractures. Small <0.5mm sulfides are strewn throughout sample and weather to a bright orange at open joints. @ 97.5 ft and 98.5 ft veins of CaCO3 disrupt the rock fabric. Hard, Moderately weathered, Poor rock, NXMDC, RMR = 33	100 (35)		2					
100.0-100.0		Hole stopped @ 100.0 ft								
48-100		Remarks: Hole collapsed at 48'								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.



BORING LOG BERLIN BF 026-1(43) GPJ VERMONT AOT.GOT 12/24/19

BORING LOG BERLIN BF 026-1(43) GPJ VERMONT AOT.GOT 12/24/19



PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)  
FILE NAME: z13b254bor.dgn  
PROJECT LEADER: A.SPERA  
DESIGNED BY: Y.SIMONSON  
BORING LOGS 1

PLOT DATE: 7/20/2020  
DRAWN BY: Y.SIMONSON  
CHECKED BY: -----  
SHEET 18 OF 32

Boring Crew: Brochu, Gonyaw, Emerson  
Date Started: 6/27/19 Date Finished: 7/02/19  
VTSPG NAD83: N 627932.40 ft E 1627691.20 ft  
Station: 44+8 Offset: -29.20  
Ground Elevation: 557.6 ft

Casing Type: WB I.D.: 4 in  
Sampler SS I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK AUTO CE = 1.52

Groundwater Observations  
Date: 06/27/19 Depth (ft): 3.0 Notes: During drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-10		A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft				2-2-5-7 (7)	9.7	39.9	60.0	0.1
		A-2-4, GrSiSa, blk, Moist, Rec. = 1.0 ft				6-15-24-18 (39)	8.0	62.5	32.3	5.2
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft				4-3-4-7 (7)	9.9	46.7	36.8	16.5
		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft				5-7-5-3 (12)	9.6	72.3	22.3	5.4
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft				3-3-3-3 (6)	13.0	47.3	36.1	16.6
		A-2-4, GrSiSa, brn, MTW, Rec. = 0.3 ft, Cleanout NXDC 10.6'-12'				4-3-3-4 (6)	18.0	26.3	45.8	27.9
		A-4, SiSa, brn, MTW, Rec. = 0.6 ft, Cleanout NXDC 12.5'-14'				2-3-1-3 (4)	23.5	9.6	49.9	40.5
		A-1-b, SiSaGr, brn, MTW, Rec. = 0.7 ft, Cleanout NXDC 17'-19'				2-4-5-9 (9)	16.8	39.7	36.6	23.7
10-20		Field Note: No Recovery, Cleanout NXDC 21'-24'				9-R05" (R)				
		Field Note: No Recovery, Cleanout NXDC 27.4'-29'				3-12-7-10 (19)				
20-30		A-2-4, SaSiGr, gry, Moist, Rec. = 0.7 ft, Cleanout NXDC 32.9'-34'				23-R04" (R)	13.0	46.3	20.6	33.1
		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft, Cleanout NXDC 35.4'-39'				23-R05" (R)	11.4	29.2	33.7	37.1
30-40		A-4, SaSi Broken rock was within sample, gry, Moist, Rec. = 0.6 ft, Cleanout NXDC 47.4'-49'				4-47-R01" (R)	14.2	6.6	27.4	66.0
40-50		A-4, SaGrSi Broken rock was within sample, gry, Moist, Rec. = 0.7 ft, Cleanout NXDC 58.3'-59'				36-R02" (R)	13.6	23.0	22.2	54.8
50-60		A-4, Si, gry, Moist, Rec. = 1.1 ft				25-36-36-R01" (72)	15.2	11.3	17.9	70.8

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

Boring Crew: Brochu, Gonyaw, Emerson  
Date Started: 6/27/19 Date Finished: 7/02/19  
VTSPG NAD83: N 627932.40 ft E 1627691.20 ft  
Station: 44+8 Offset: -29.20  
Ground Elevation: 557.6 ft

Casing Type: WB I.D.: 4 in  
Sampler SS I.D.: 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK AUTO CE = 1.52

Groundwater Observations  
Date: 06/27/19 Depth (ft): 3.0 Notes: During drilling

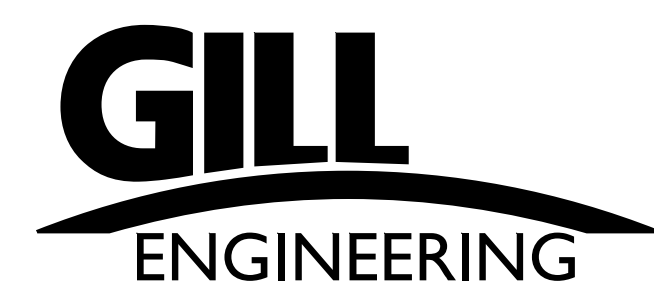
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
70-80		A-4, SaSi, gry, Moist, Rec. = 0.7 ft, Cleanout NXDC 77.5'-79'				23-R04" (R)	11.5	17.5	37.9	44.6
80-90		A-1-b, Gr Broken rock was within sample, gry, Moist, Rec. = 0.2 ft, Cleanout NXDC 87.6'-89'				R04" (R)	1.6	96.0	2.7	1.3
90-100		A-1-b, Gr, gry, Moist, Rec. = 0.2 ft, Cleanout NXDC 92.9'-99'				R05" (R)	9.0	68.7	14.7	16.6
100-110		A-1-b, Gr Broken rock was within sample, gry, Moist, Rec. = 0.1 ft, Cleanout NXDC 100.6'-109'				R06" (R)	1.4	95.7	2.5	1.8
110-120		110.0 ft - 115.0 ft, Dark gray to black, Sandy calcareous PHYLLITE, Cleavage planes dip ~ 40° and are mimicked by close, slightly open fractures ± CaCO3. Small <1mm sulfides and Ti-oxides are strewn throughout sample and weather to a brown-orange at open joints. Hard, Slightly weathered, Fair rock, NXMDC, RMR = 49	R-1 (40)	98 (74)	3					
		115.0 ft - 120.0 ft, Dark gray to black, Sandy calcareous PHYLLITE, Cleavage planes dip ~ 40° and are mimicked by close, slightly open fractures ± CaCO3. Small <1mm sulfides and Ti-oxides are strewn throughout sample and weather to a brown-orange at open joints. Hard, Slightly weathered, Fair rock, NXMDC, RMR = 53	(40)	96 (81)	3					
		Hole stopped @ 120.0 ft								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BOTTOM OF ABUTMENT #2  
PILE CAP EL = 547.42

BOT. PILE  
EL = 517.19

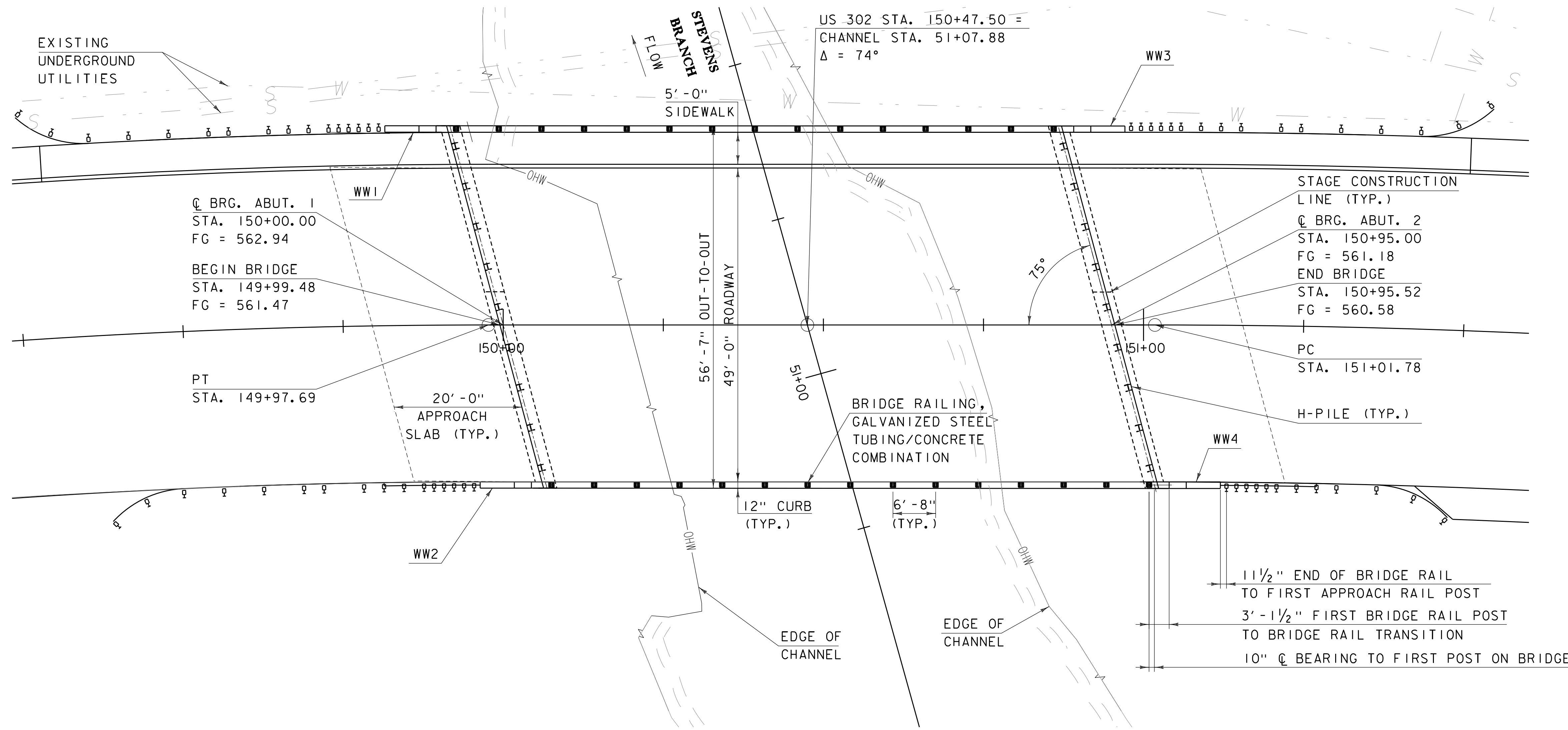
BORING LOG BERLIN BF 026-1(43) GPJ VERMONT NOT.GOT 12/24/19



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PROJECT NUMBER: BF 026-1(43)

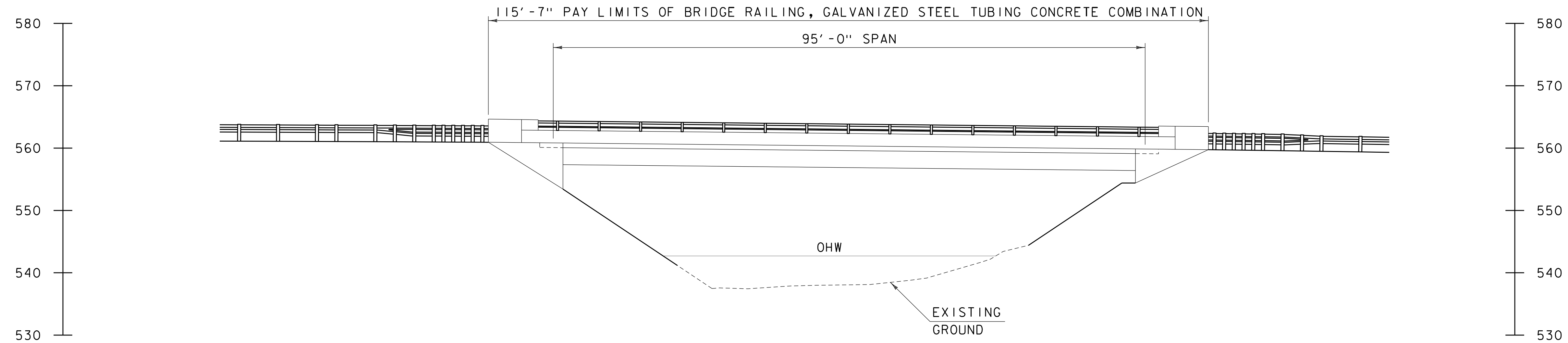
FILE NAME: z13b254bor.dgn  
PROJECT LEADER: A.SPERA  
DESIGNED BY: Y.SIMONSON  
BORING LOGS 2

PLOT DATE: 7/20/2020  
DRAWN BY: Y.SIMONSON  
CHECKED BY: -----  
SHEET 19 OF 32



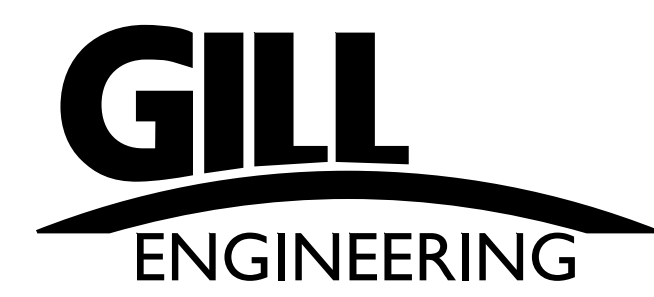
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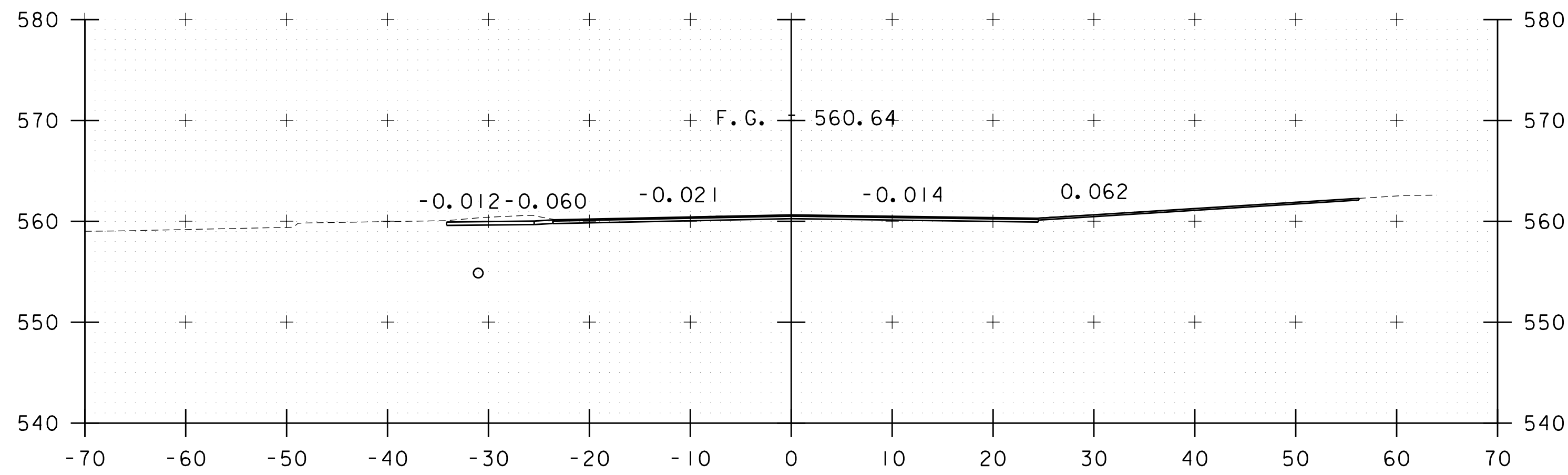


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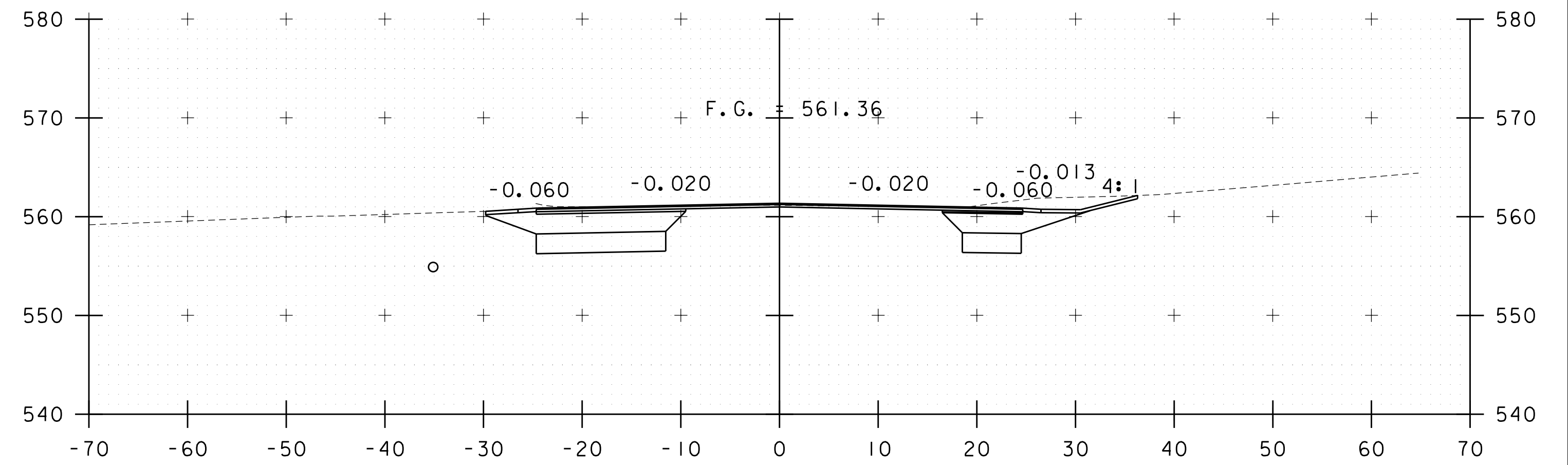
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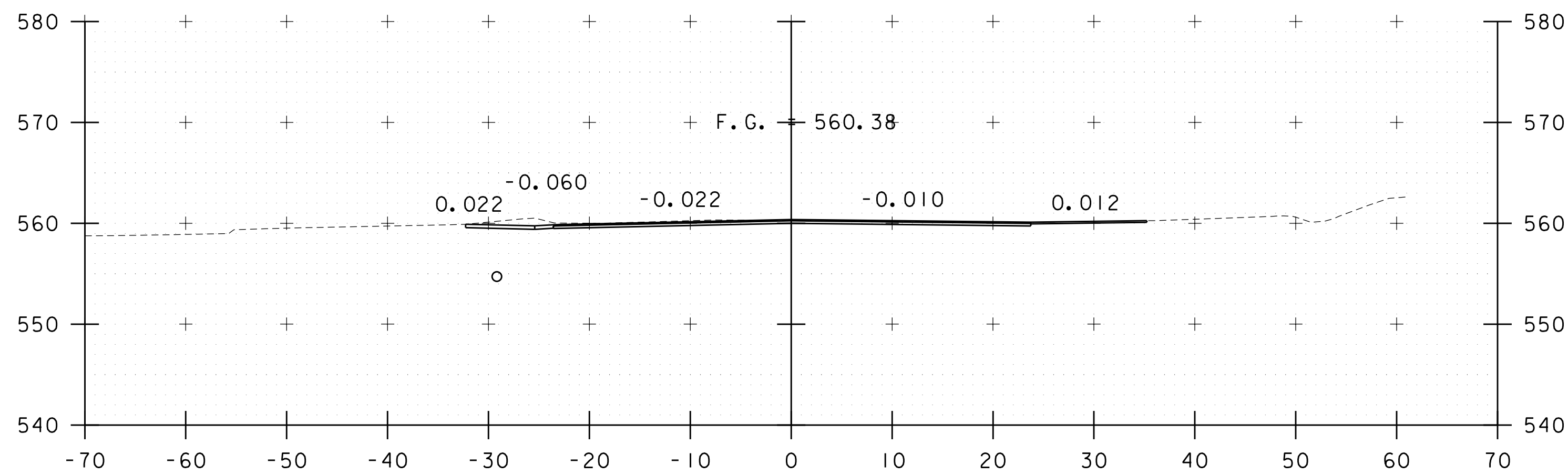
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PROJECT NUMBER: BF 026-1(43)	DRAWN BY: C.BURNER
FILE NAME: z13b254pe.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPERA	SHEET 20 OF 32
DESIGNED BY: C.BURNER	
PLAN AND ELEVATION	



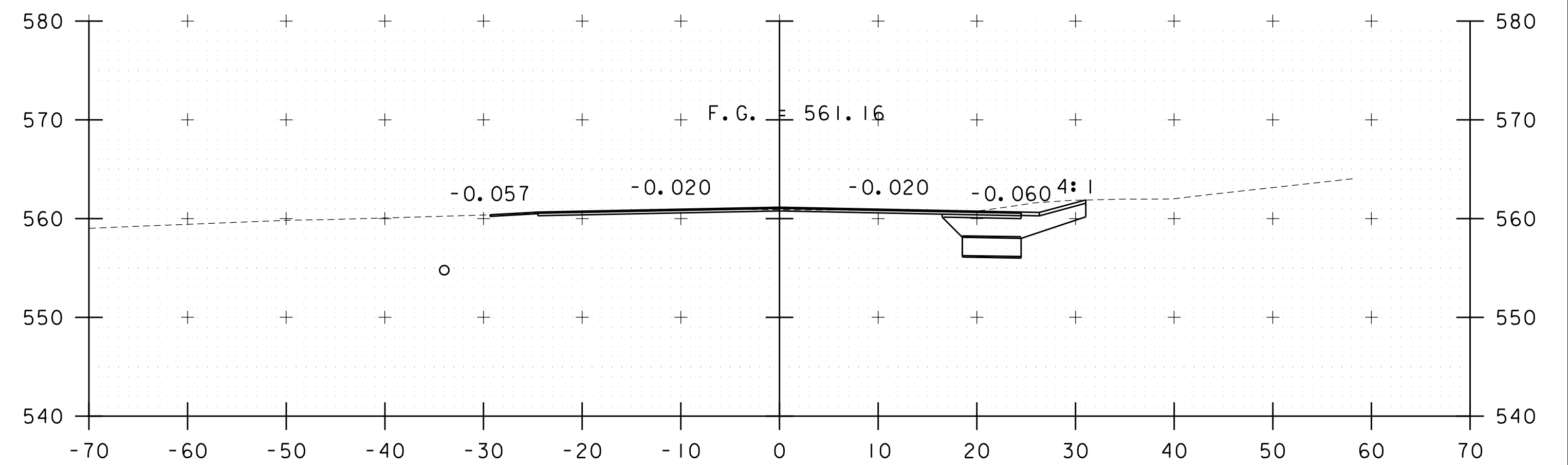
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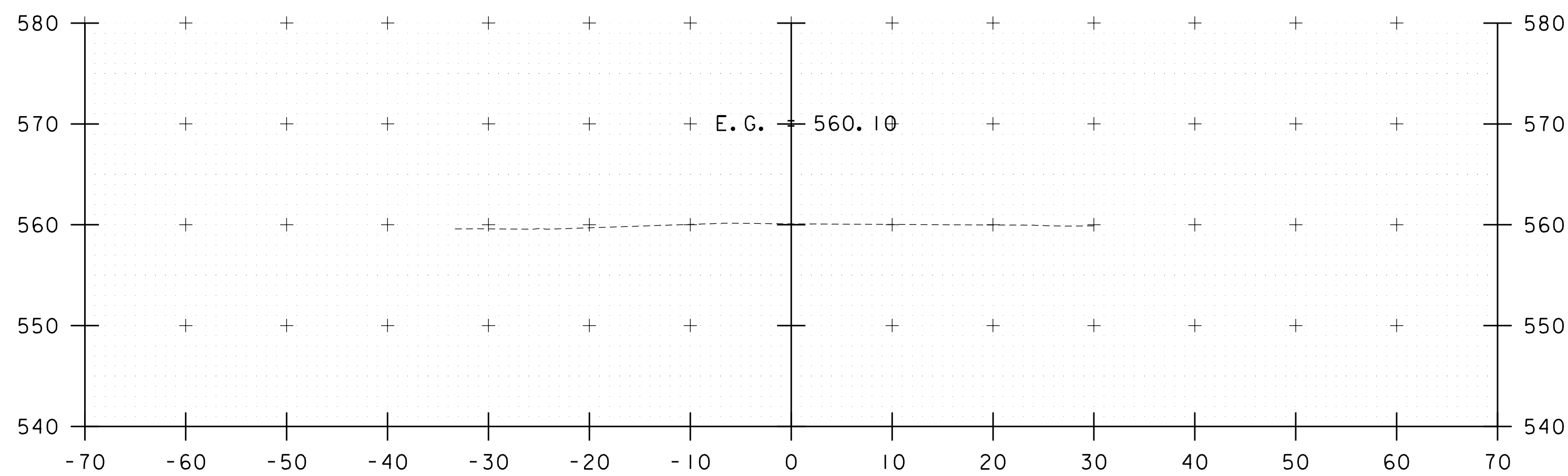
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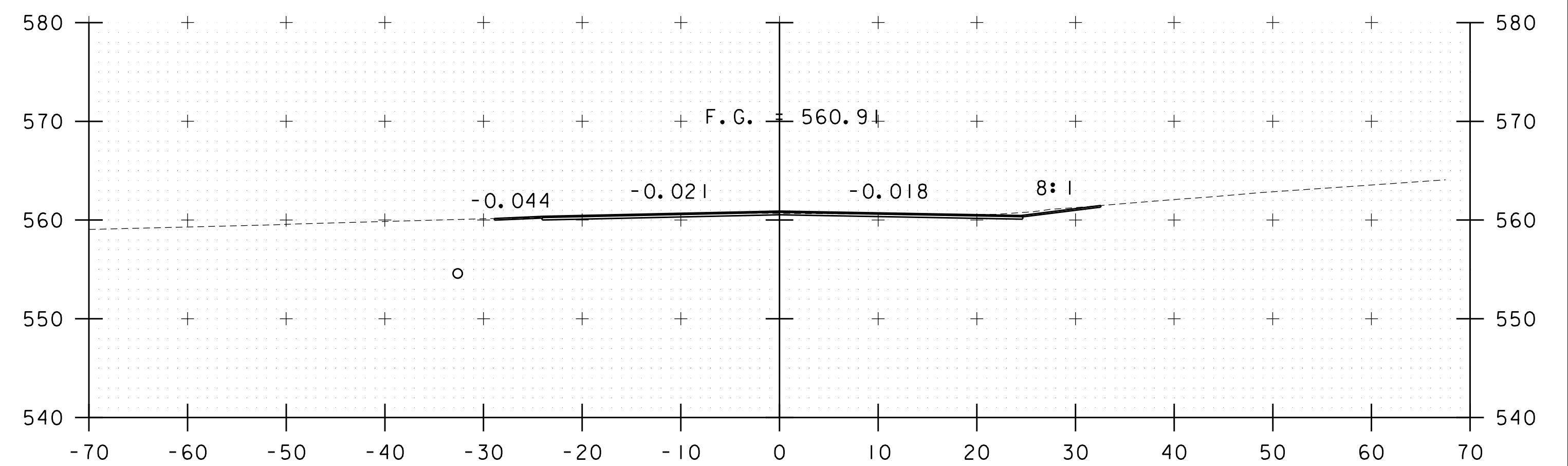
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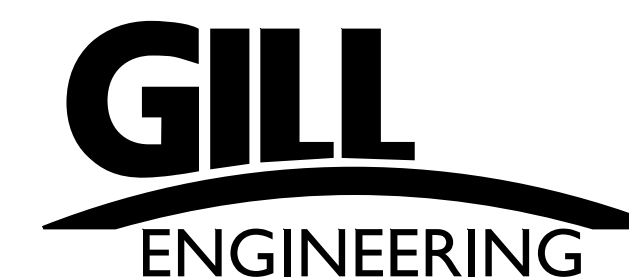
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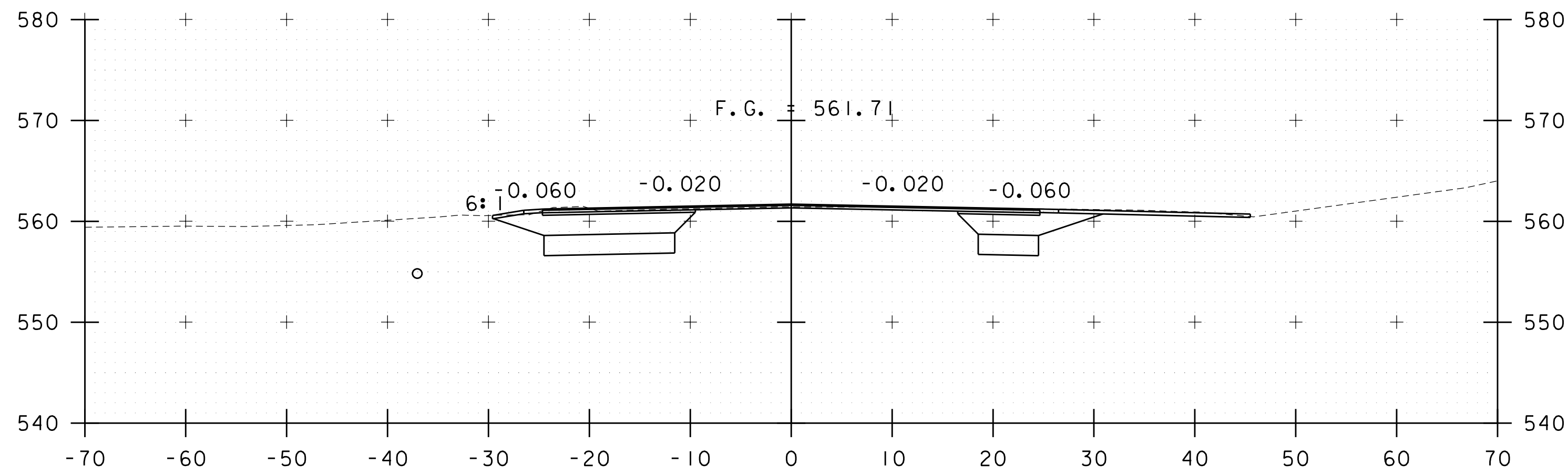
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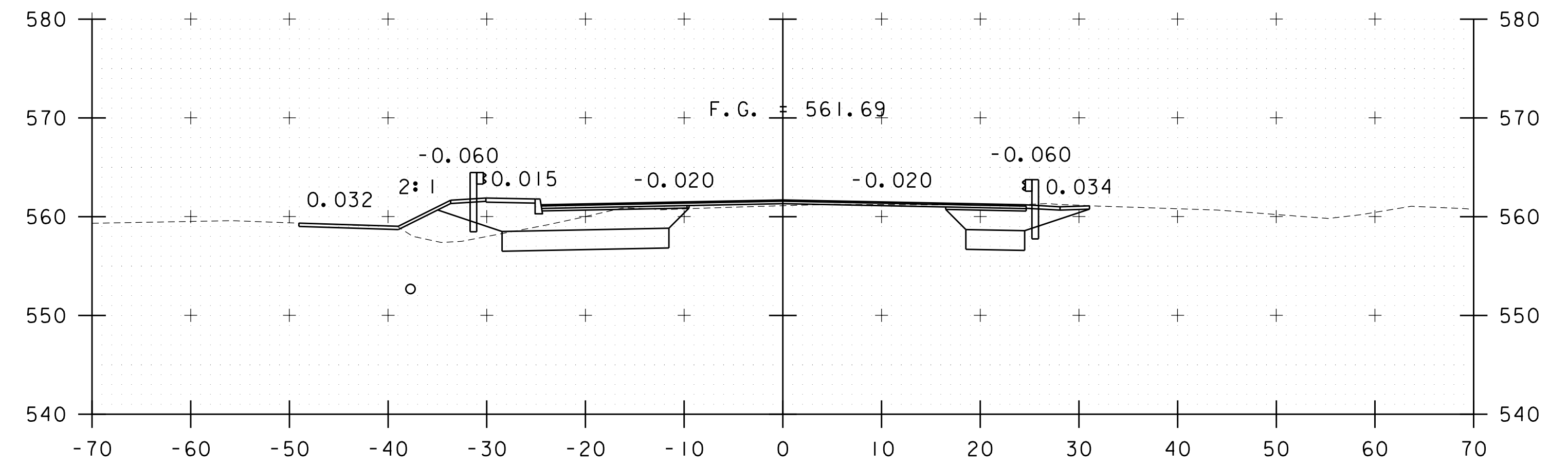
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PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: A. LEENHOUTS
FILE NAME: z13b254xs.dgn	DESIGNED BY: A. LEENHOUTS
CROSS SECTIONS 1	CHECKED BY: -----
	SHEET 21 OF 32

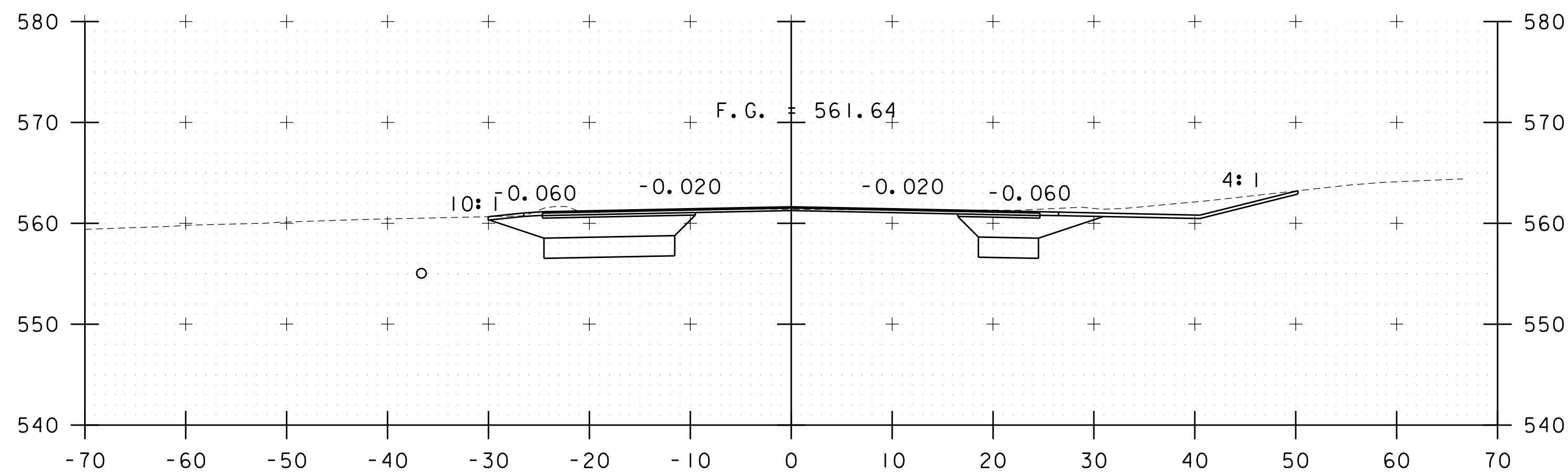


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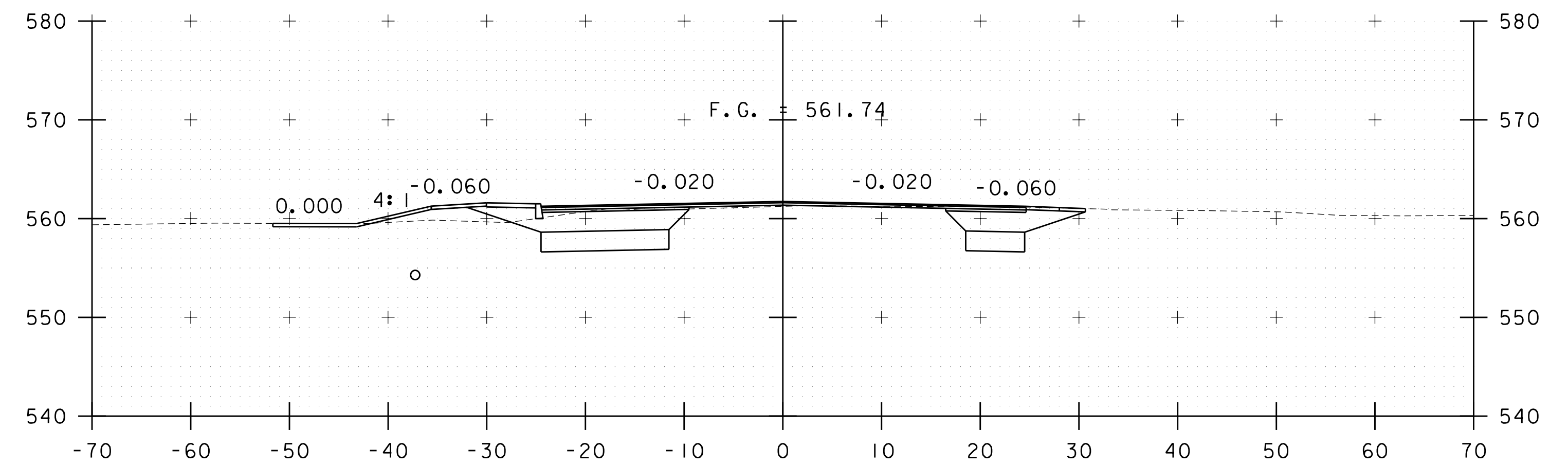


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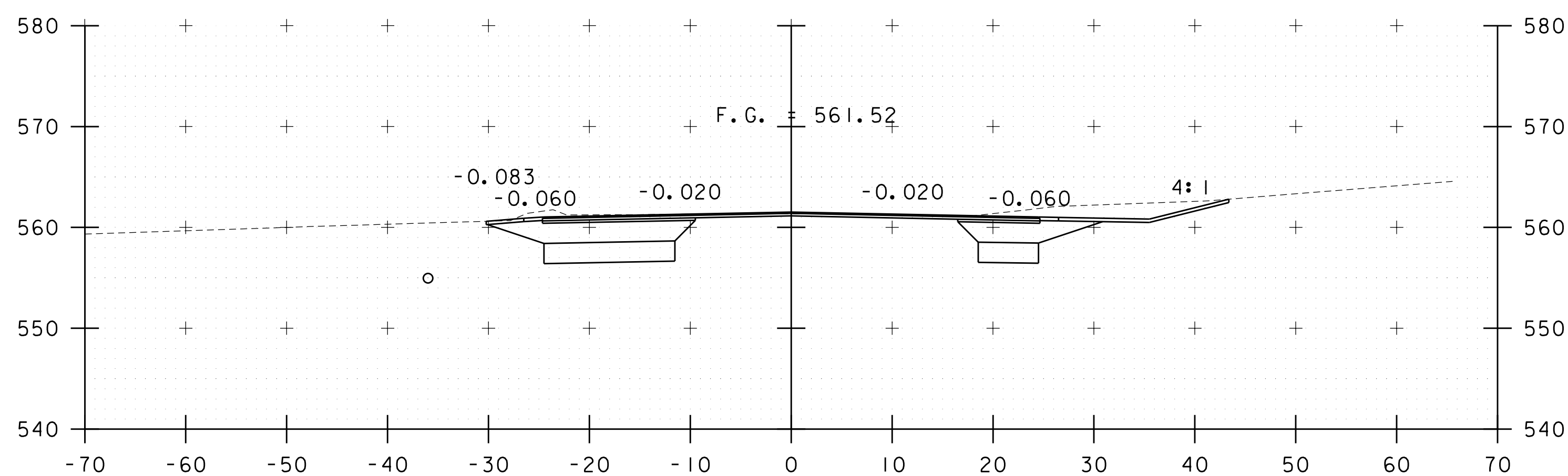
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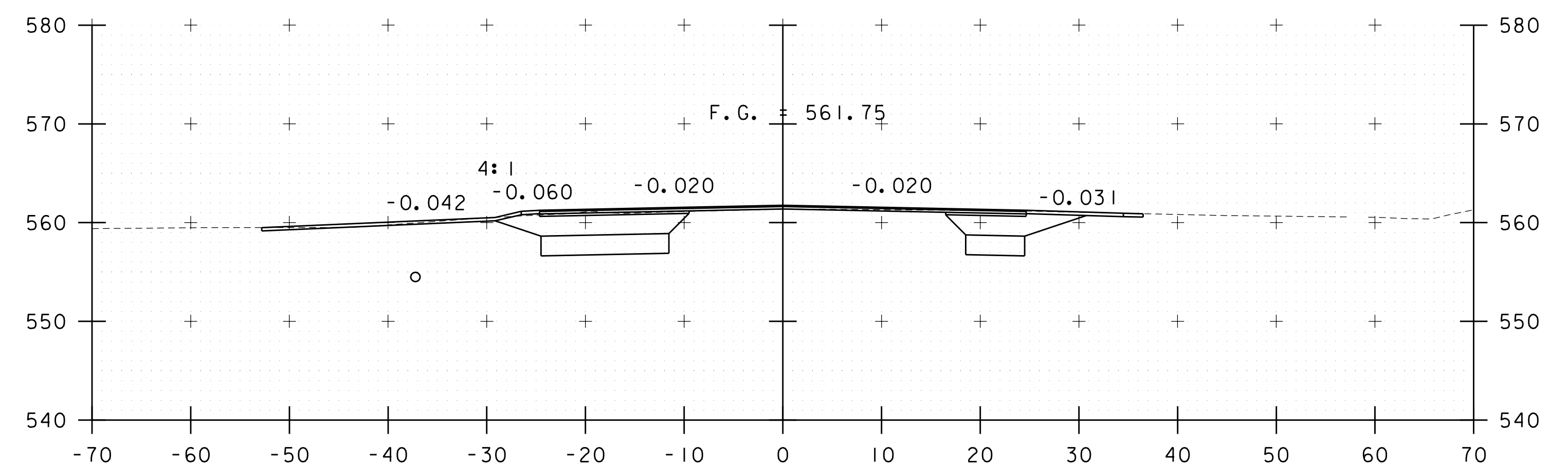
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149+25

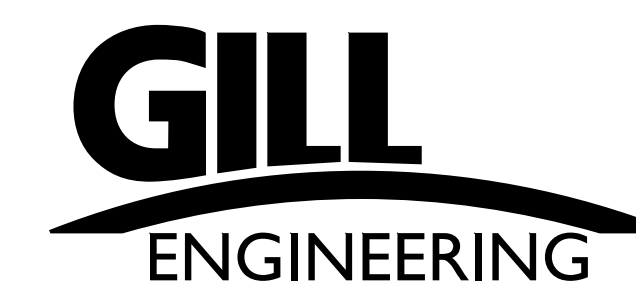


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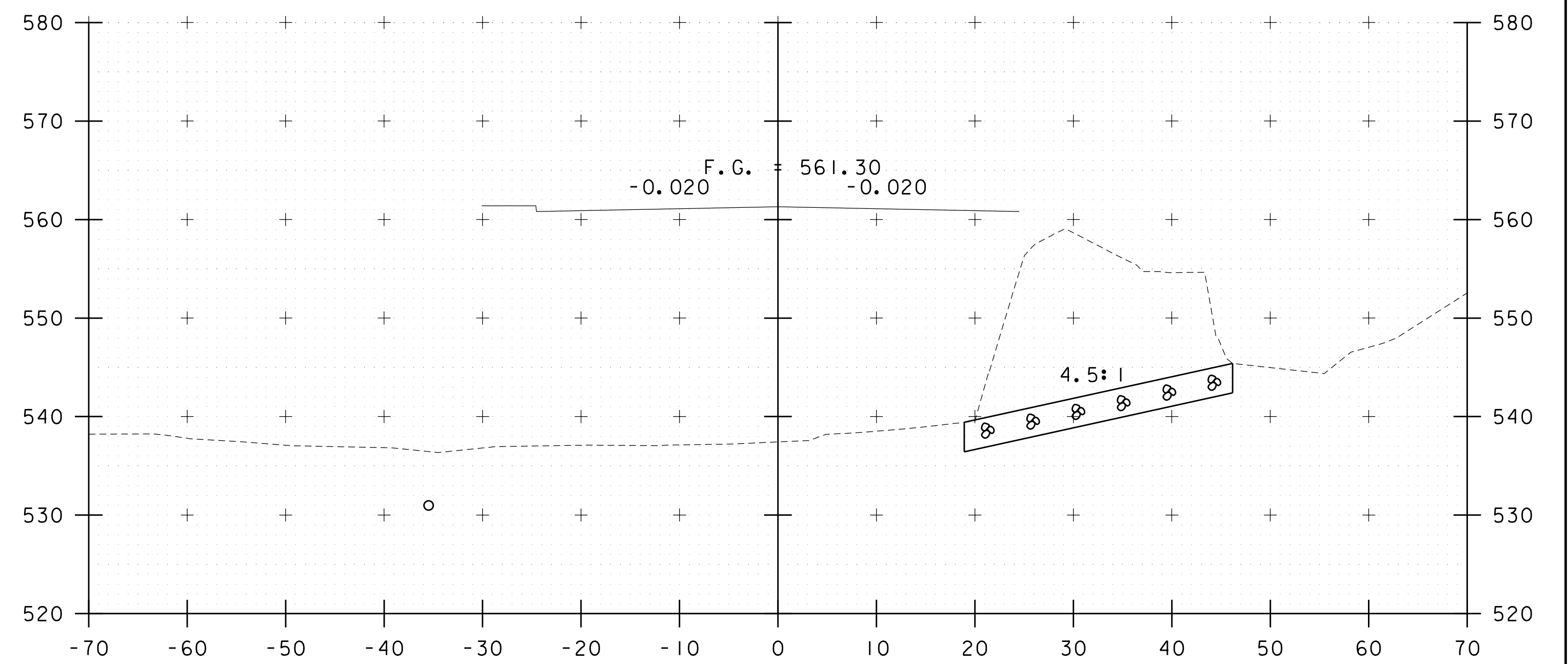
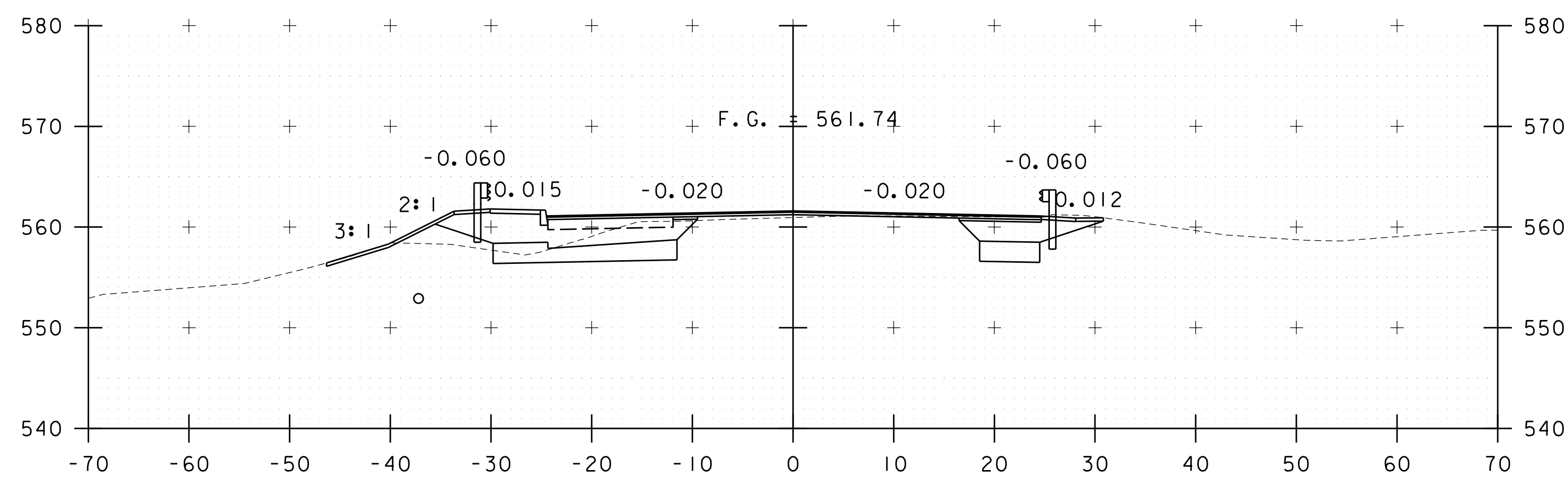
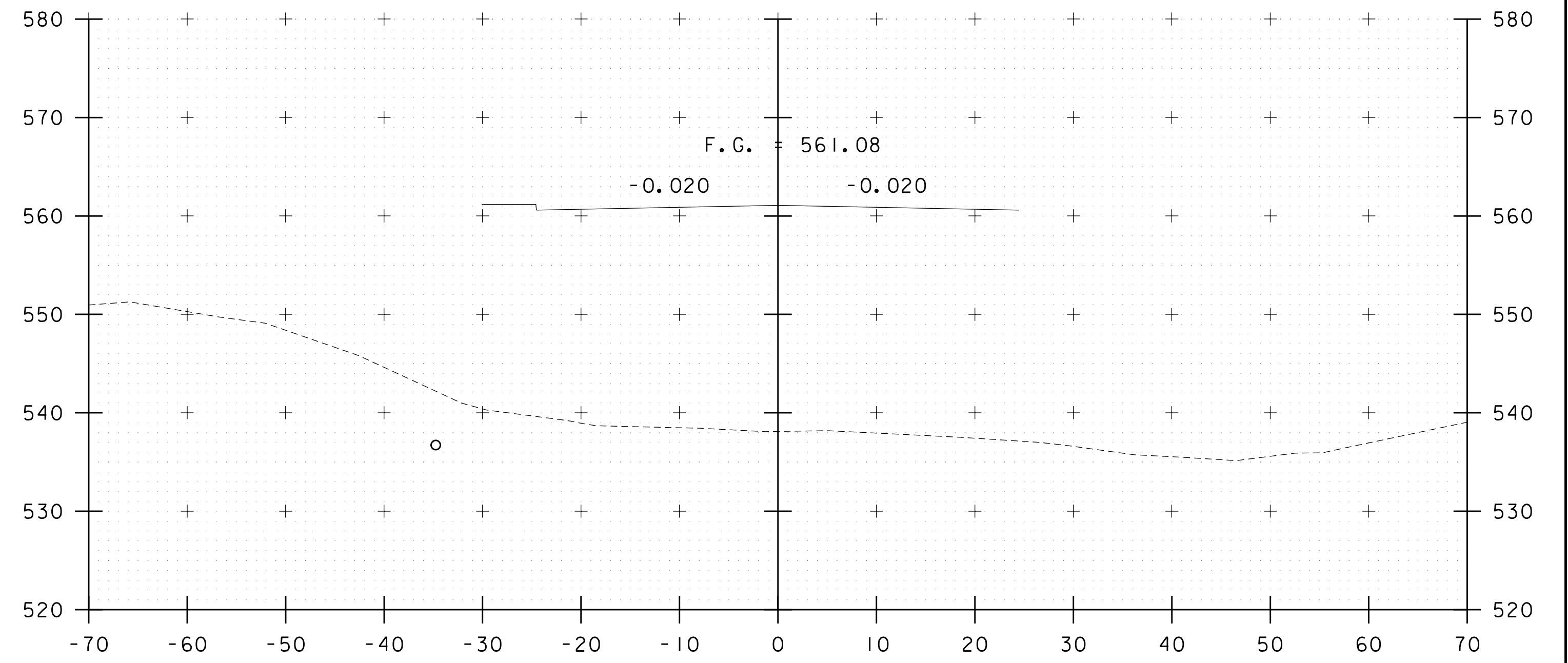
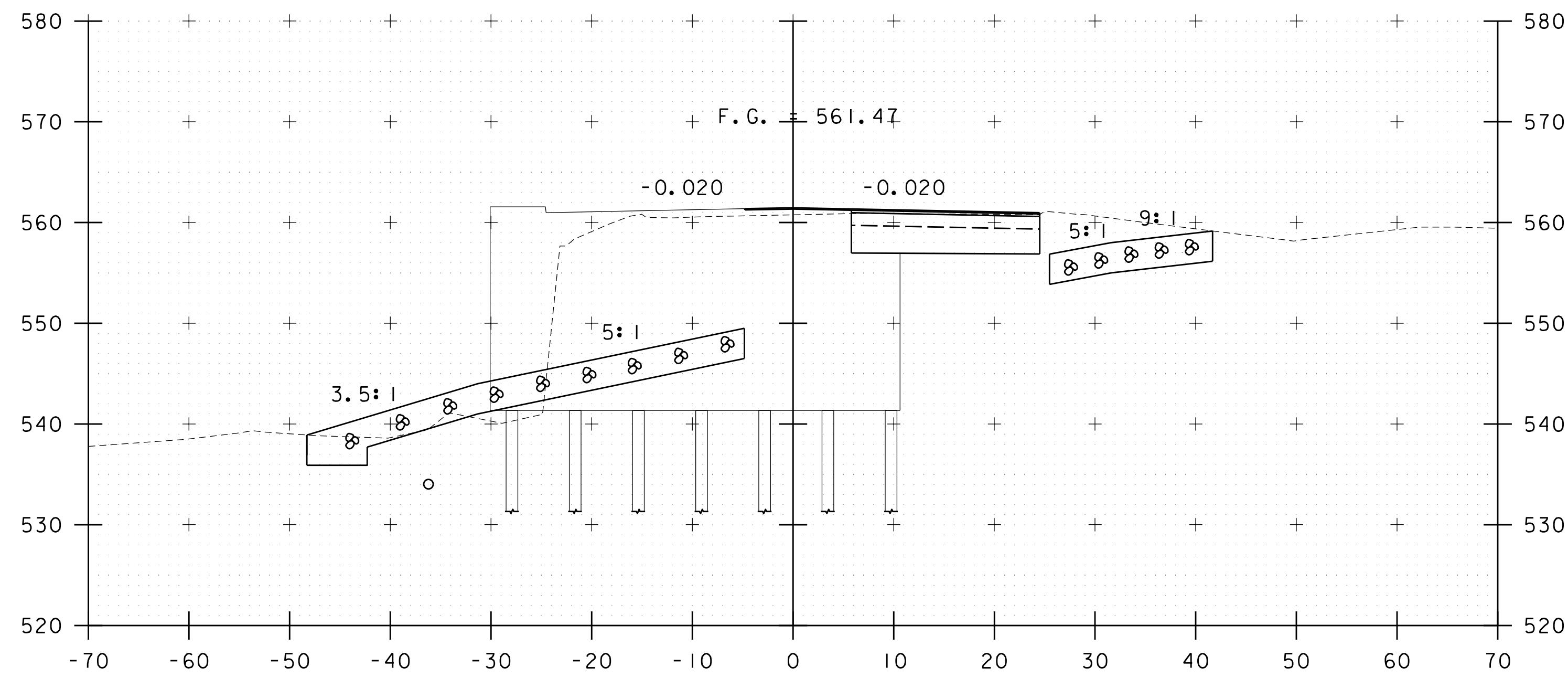


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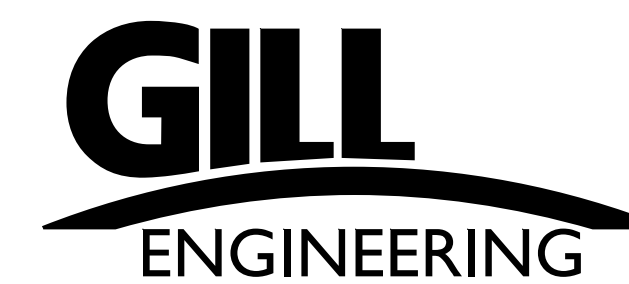
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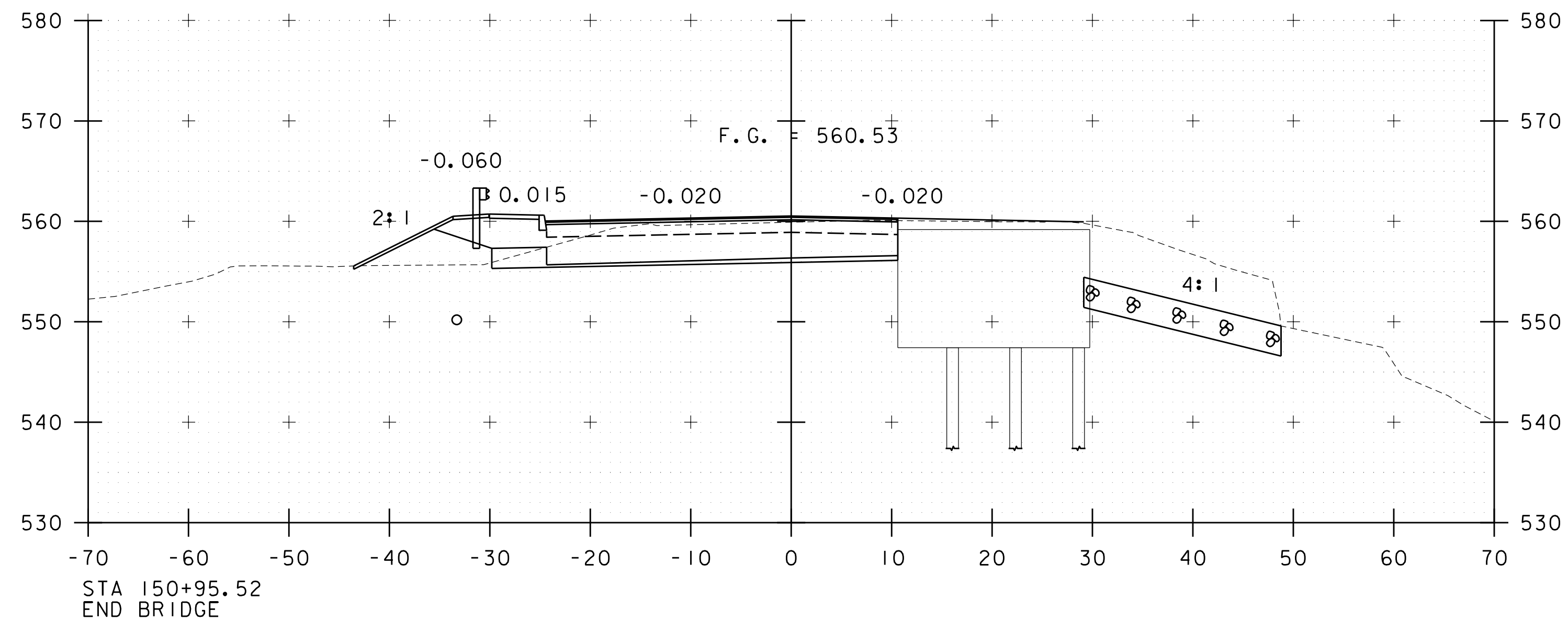
PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: A. LEENHOUTS
FILE NAME: z13b254xs.dgn	DESIGNED BY: A. LEENHOUTS
CROSS SECTIONS 2	CHECKED BY: -----
	SHEET 22 OF 32



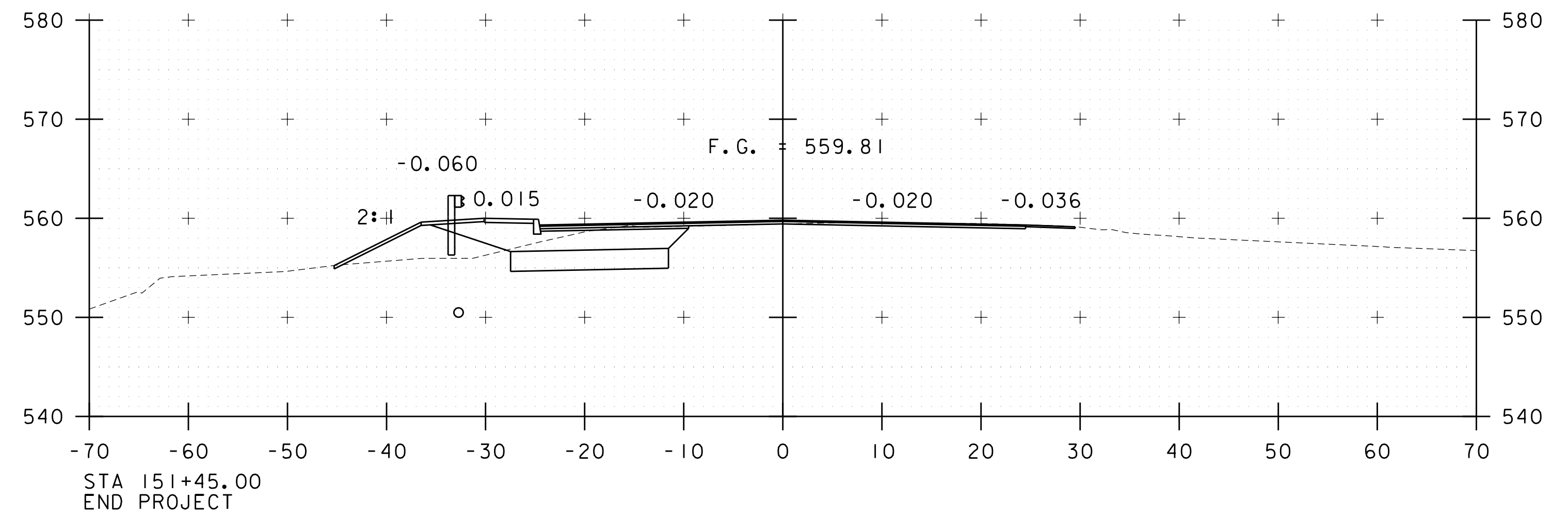
STA. 149+75 TO STA. 150+50



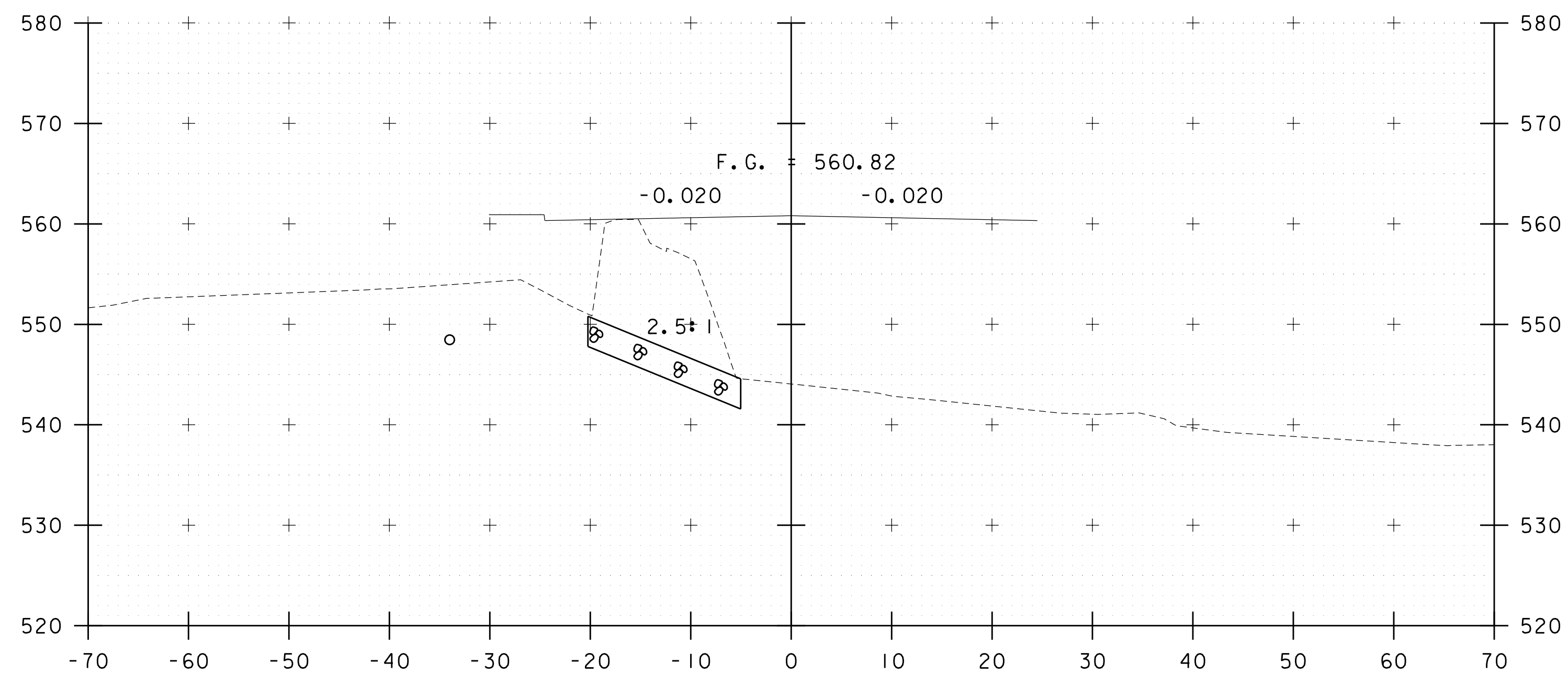
PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: A. LEENHOUTS
FILE NAME: z13b254xs.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPERA	SHEET 23 OF 32
DESIGNED BY: A. LEENHOUTS	
CROSS SECTIONS 3	



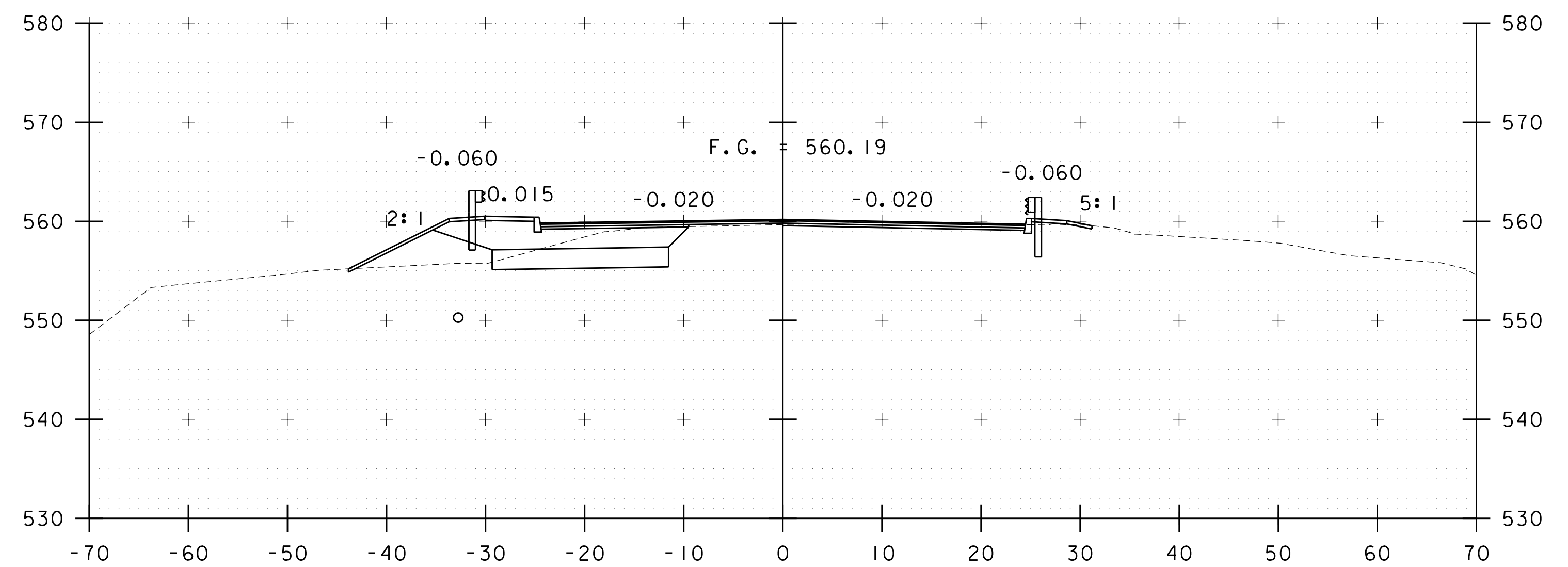
151+00



151+50

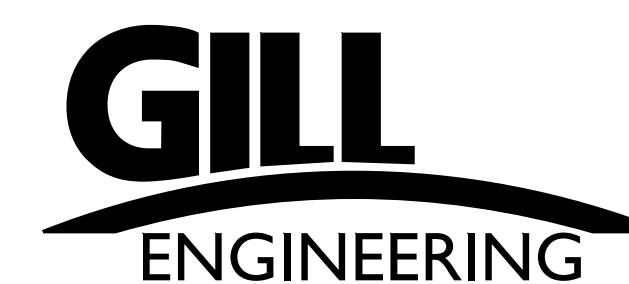


150+75



151+25

STA. 150+75 TO STA. 151+50

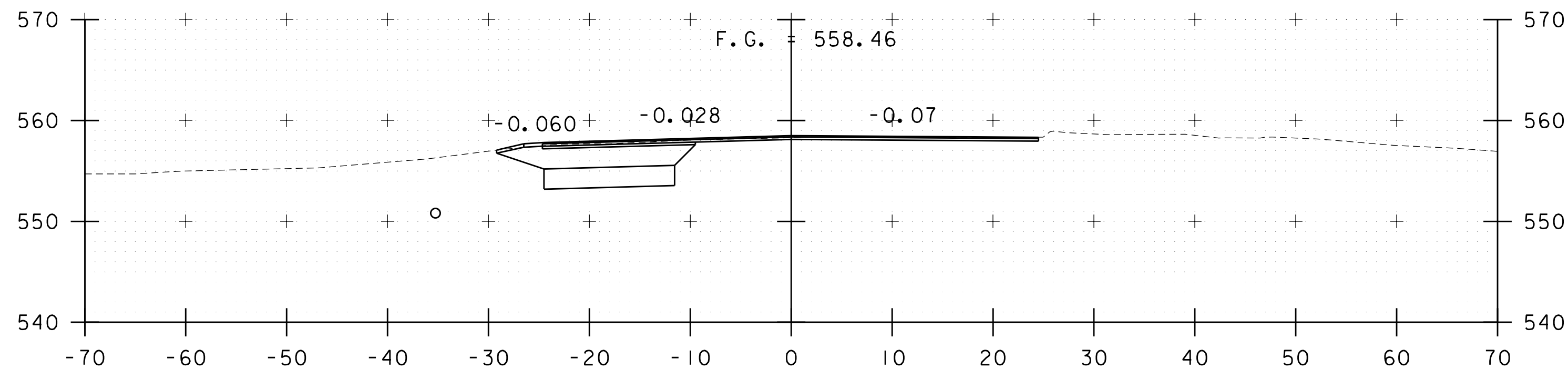


PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

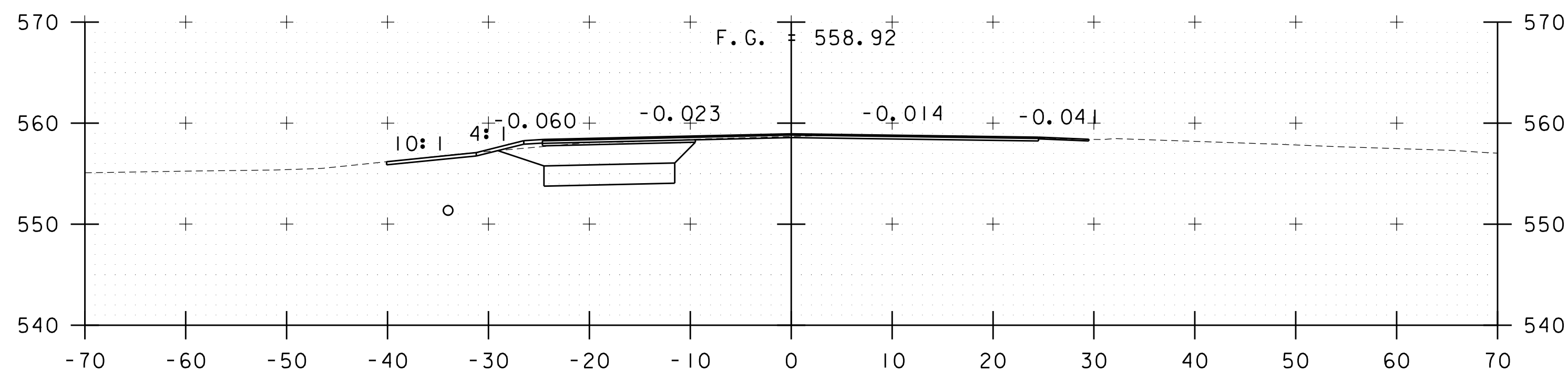
FILE NAME: z13b254xs.dgn  
PROJECT LEADER: A.SPORA  
DESIGNED BY: A. LEENHOUTS  
CROSS SECTIONS 4

PLOT DATE: 7/20/2020  
DRAWN BY: A. LEENHOUTS  
CHECKED BY: -----  
SHEET 24 OF 32

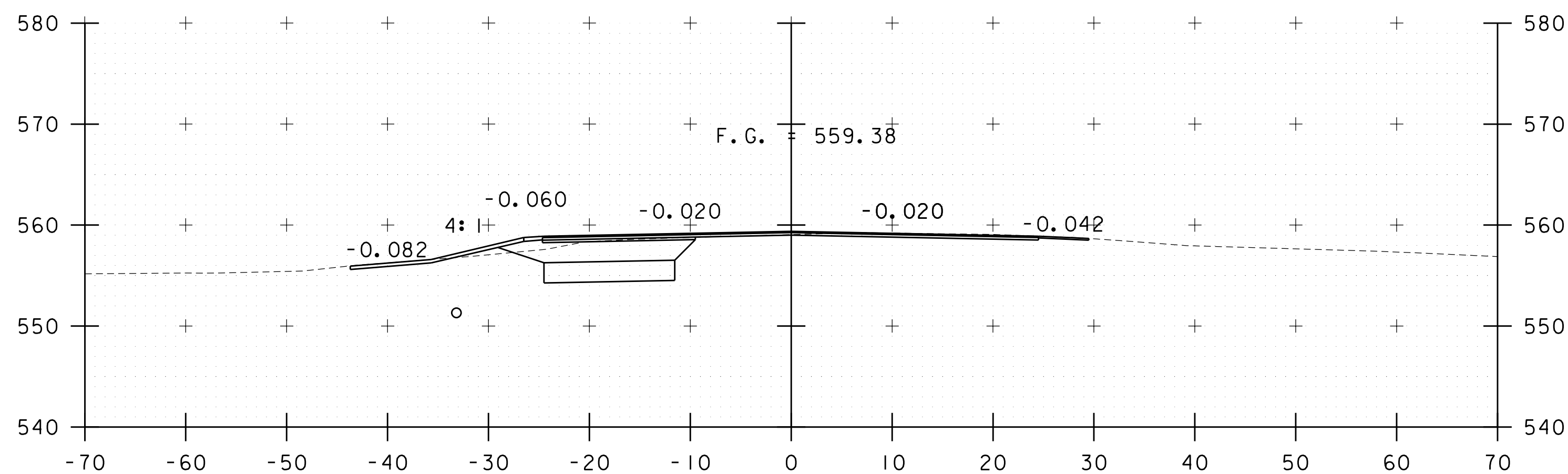




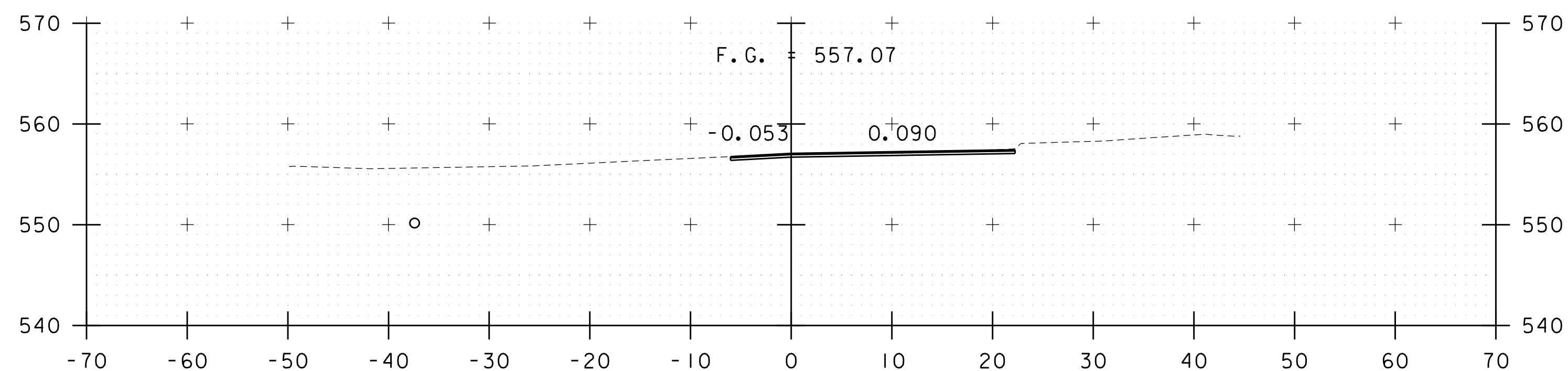
152+25



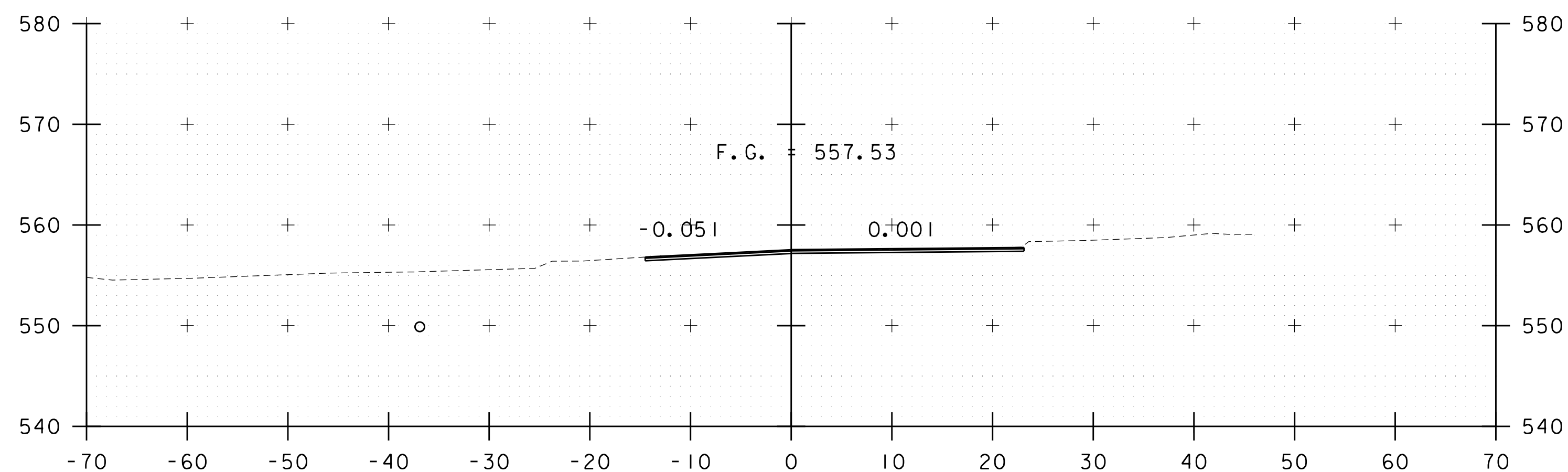
152+00



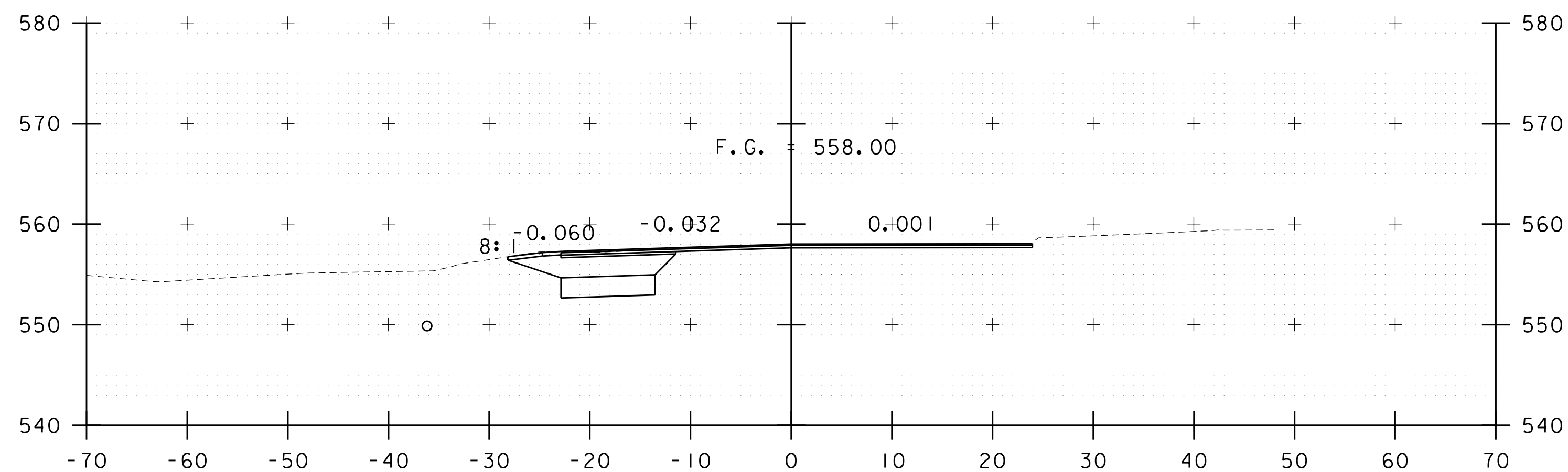
151+75



153+00

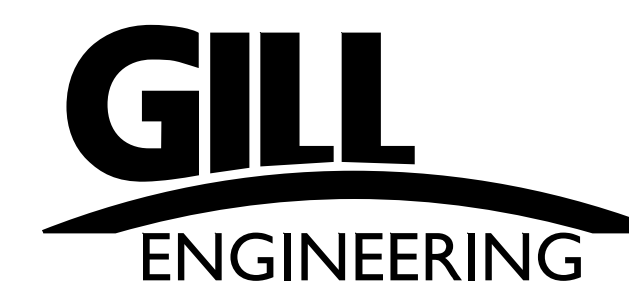


152+75

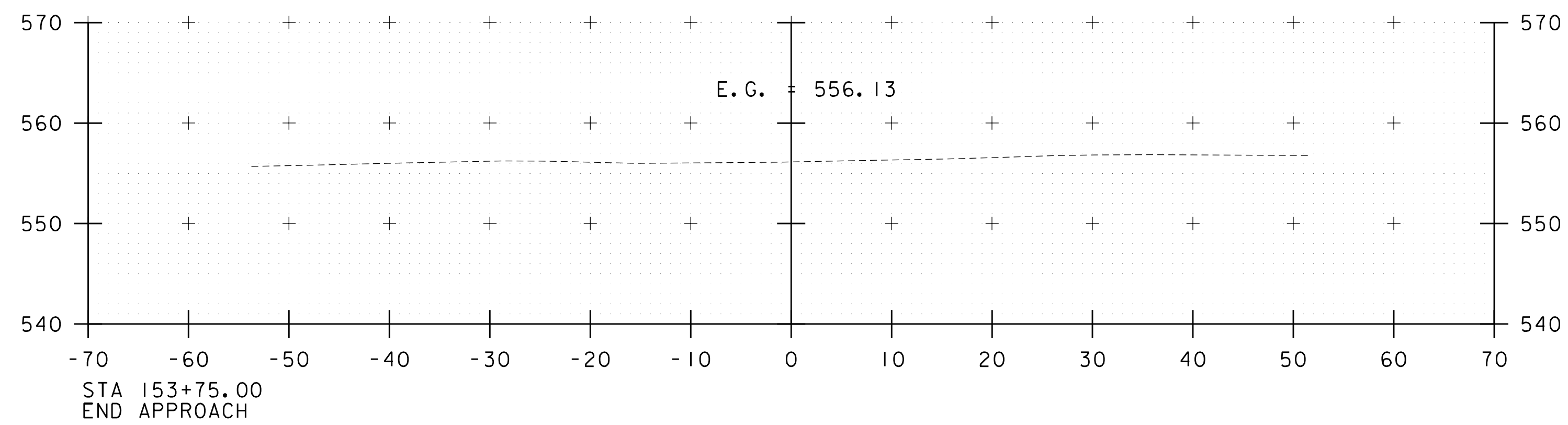


152+50

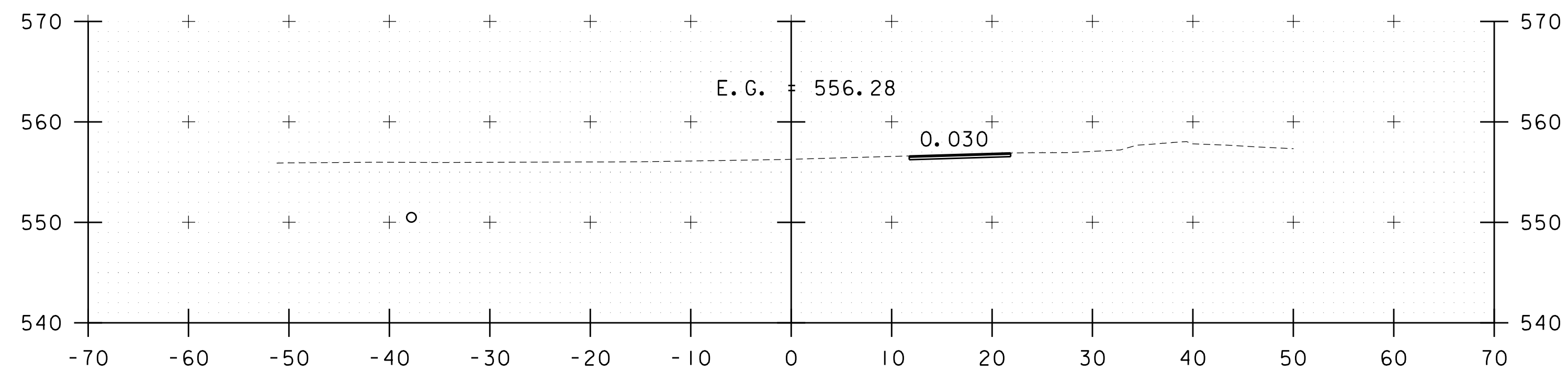
STA. 151+75 TO STA. 153+00



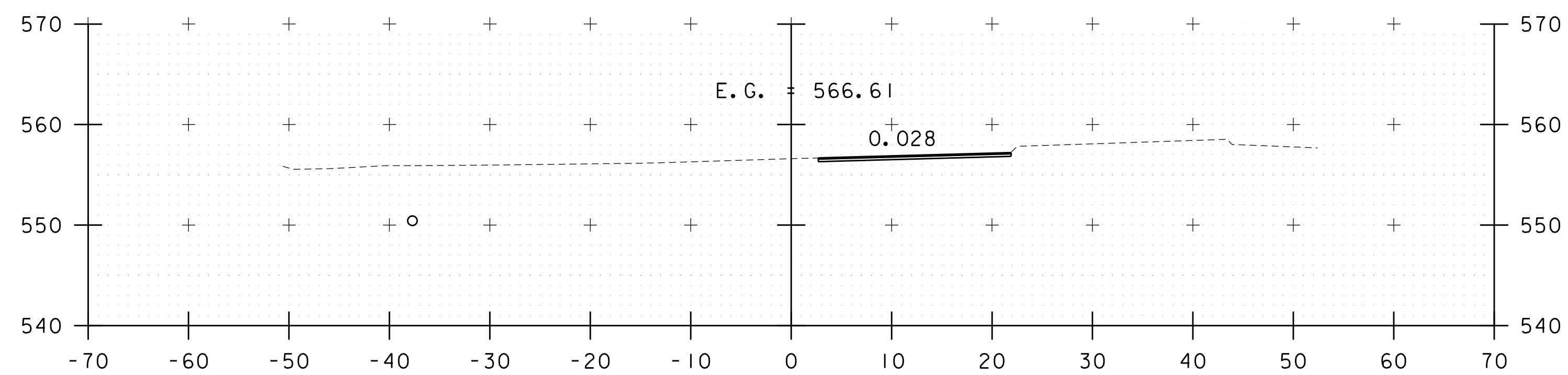
PROJECT NAME:	BERLIN	PLOT DATE:	7/20/2020
PROJECT NUMBER:	BF 026-1(43)	DRAWN BY:	A. LEENHOUTS
FILE NAME:	z13b254xs.dgn	DESIGNED BY:	A. LEENHOUTS
PROJECT LEADER:	A. SPERA	CHECKED BY:	----
CROSS SECTIONS:	5	SHEET:	25 OF 32



153+75

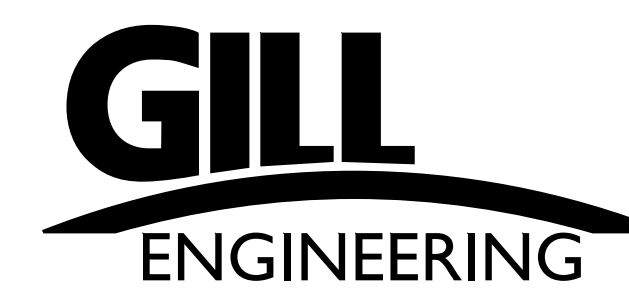


153+50



153+25

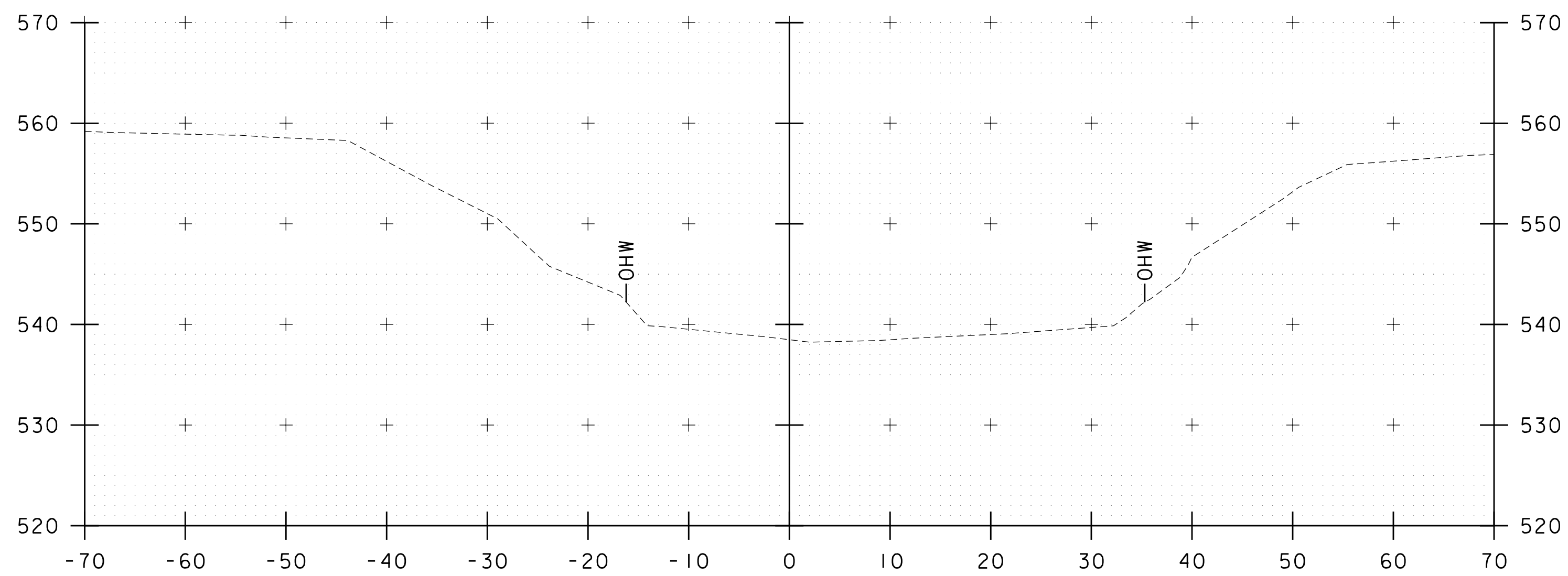
STA. 153+25 TO STA. 153+75



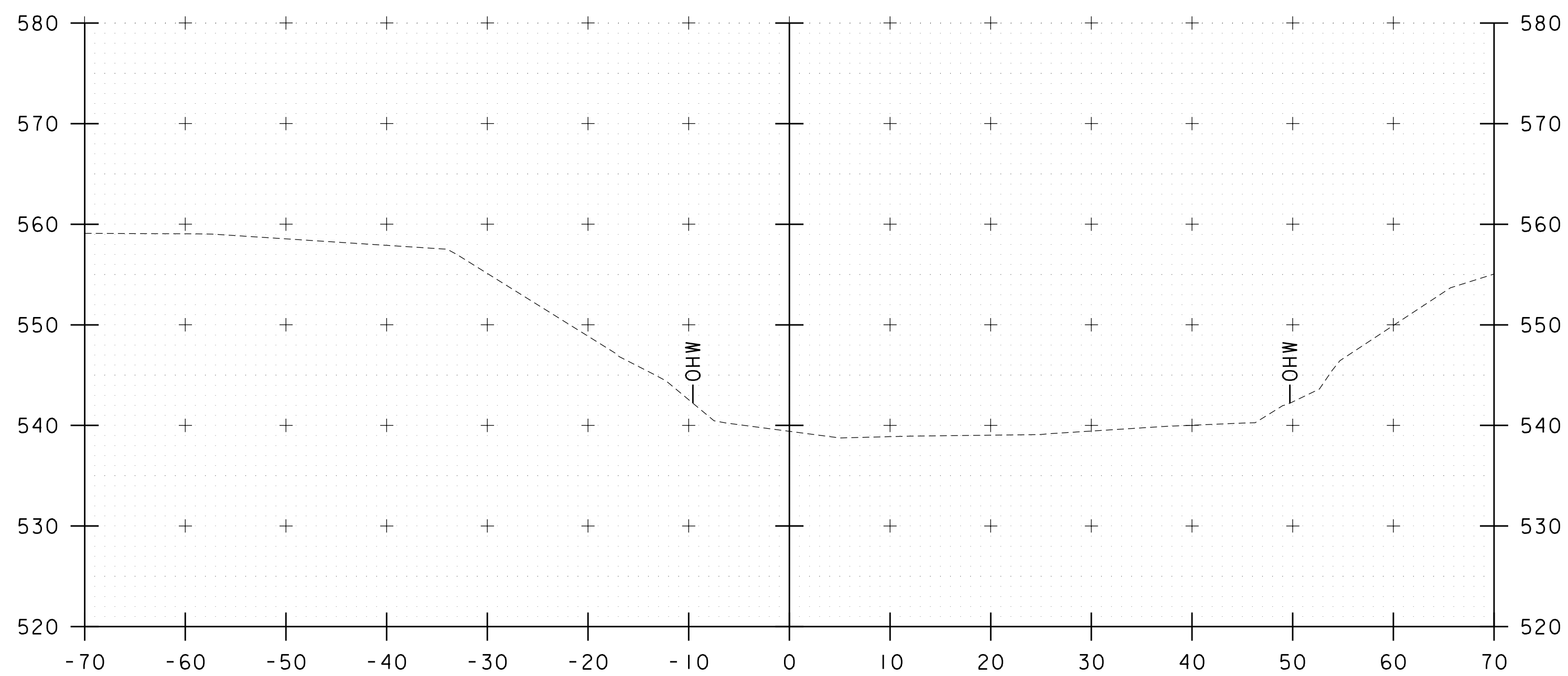
PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn  
PROJECT LEADER: A.SPERA  
DESIGNED BY: A. LEENHOUTS  
CROSS SECTIONS 6

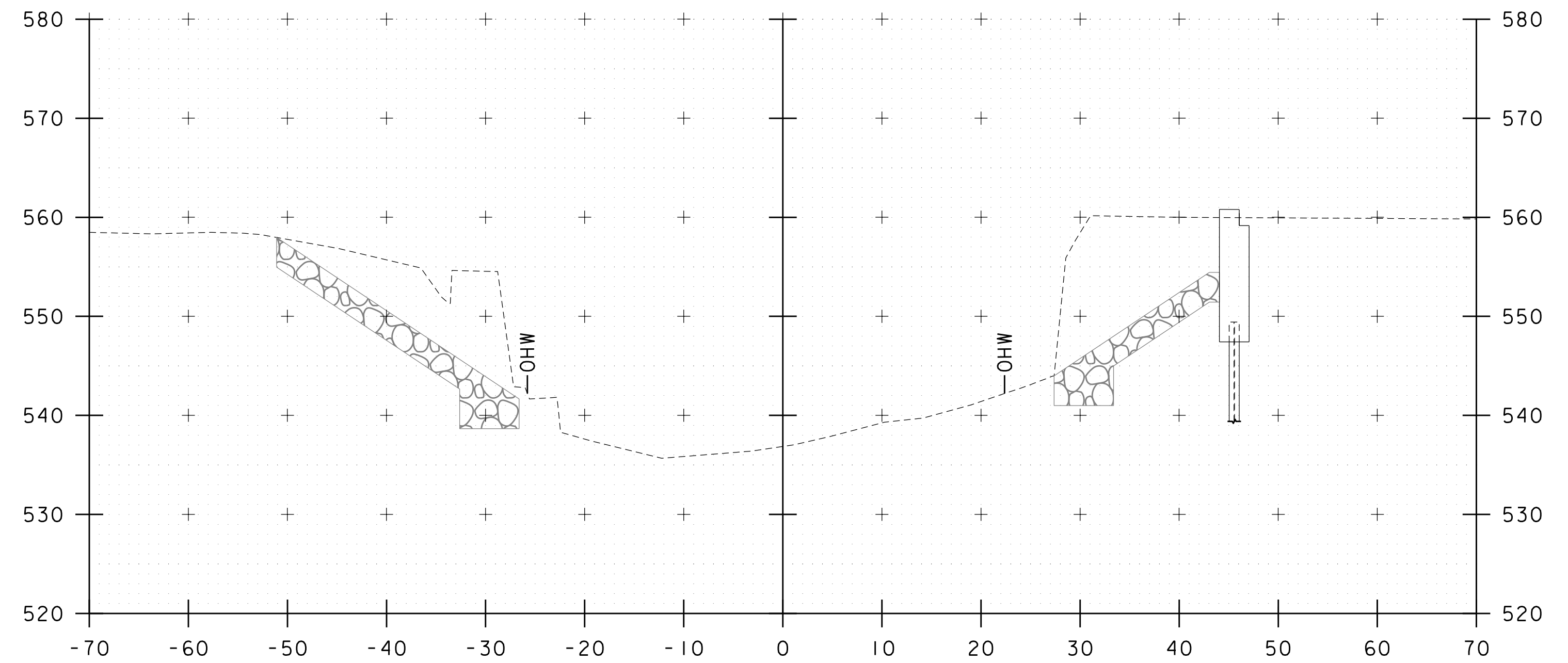
PLOT DATE: 7/20/2020  
DRAWN BY: A. LEENHOUTS  
CHECKED BY: -----  
SHEET 26 OF 32



50+25



50+00

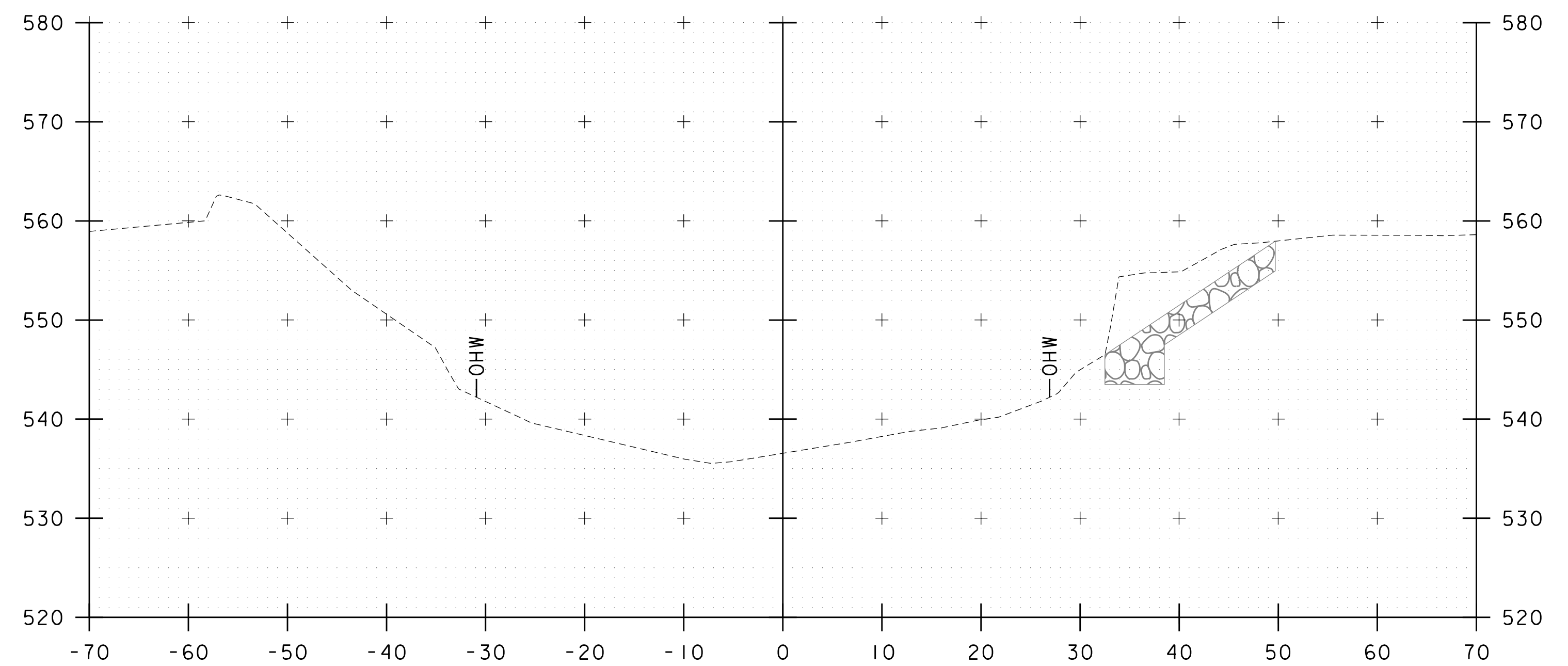


BEG CHANNEL EXCAVATION  
STA. 50+69.2 LT

BEG STONE FILL/GEOTEXTILE/GRUBBING MATERIAL  
STA. 50+64.3 LT

BEG STONE FILL/GEOTEXTILE/GRUBBING MATERIAL  
STA. 50+60.6 RT

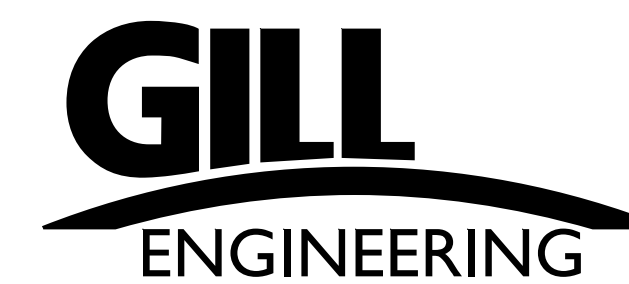
50+75



BEG STONE FILL/GEOTEXTILE/GRUBBING MATERIAL  
STA. 50+44.5 RT

50+50

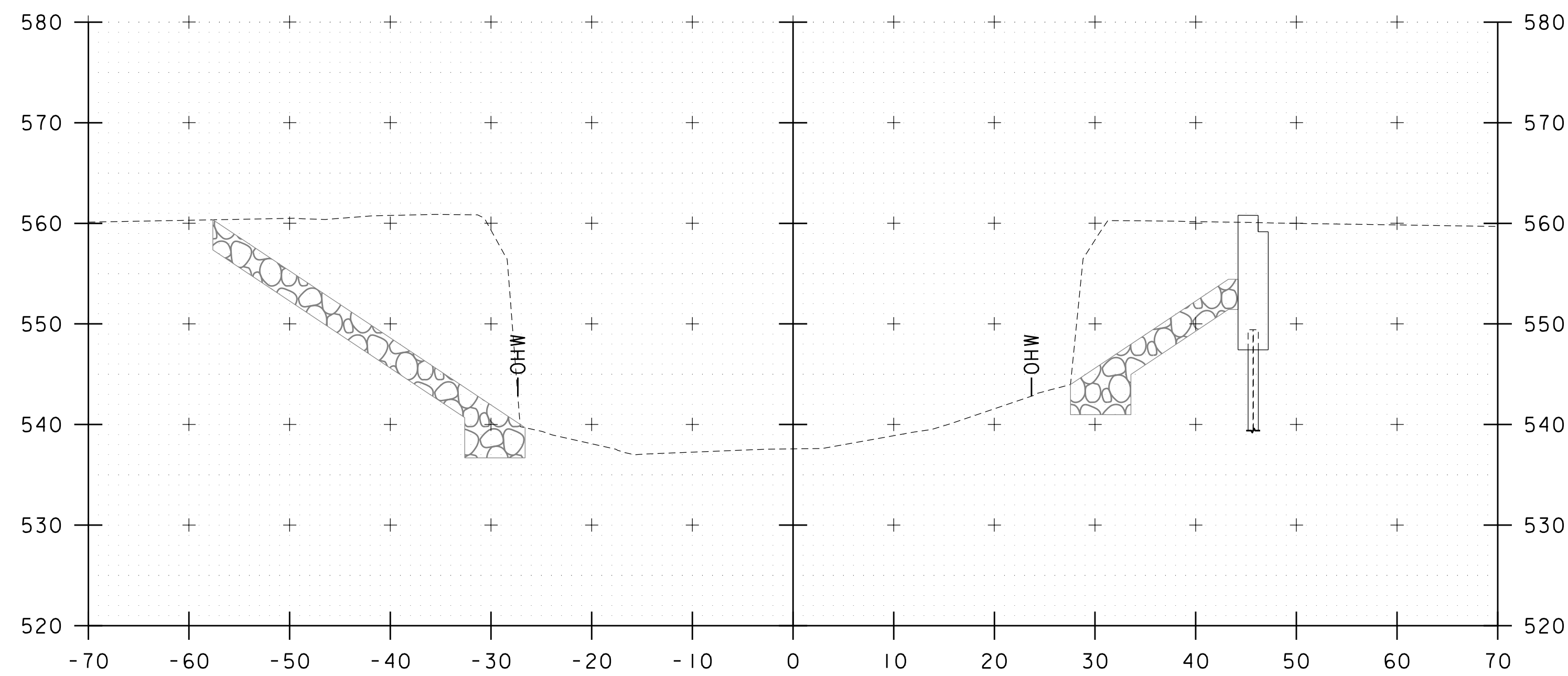
STA. 50+00 TO STA. 50+75



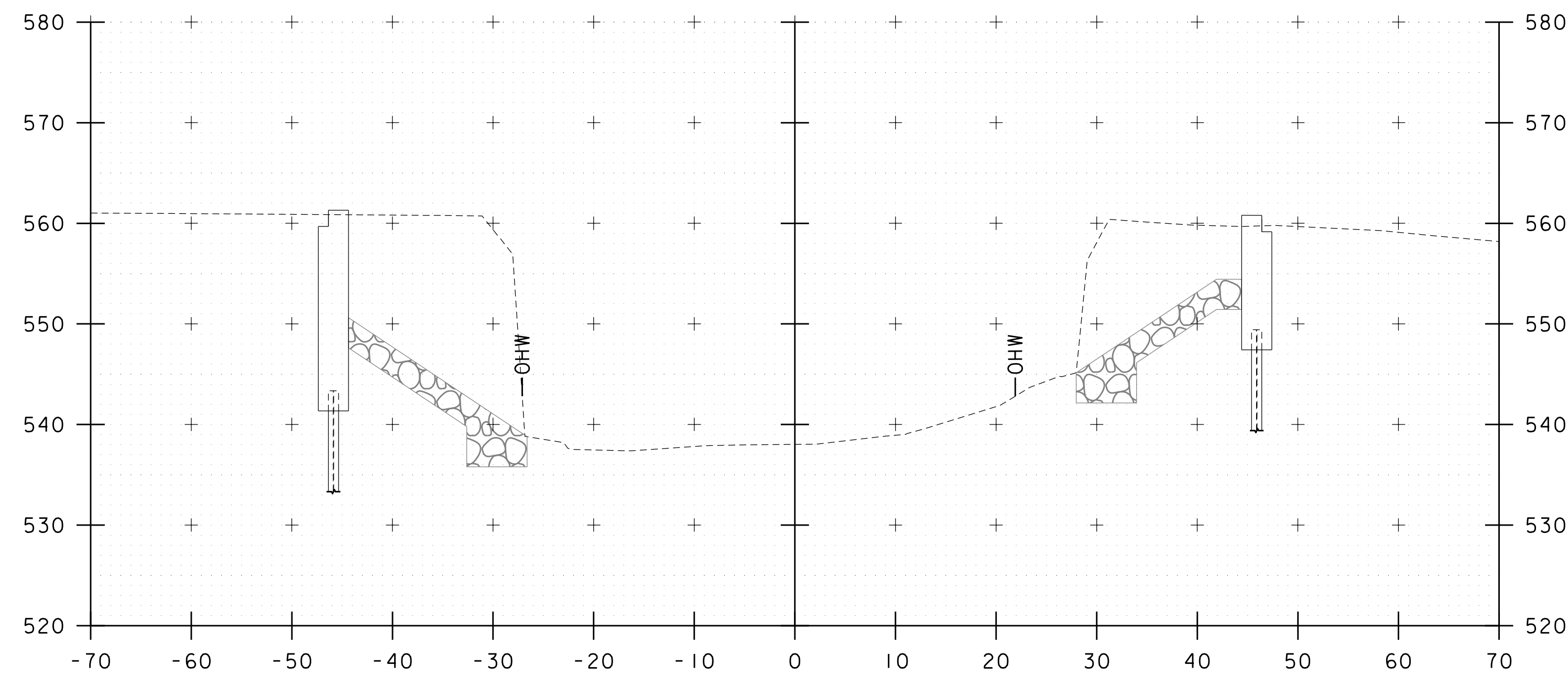
PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn  
PROJECT LEADER: A.SPERA  
DESIGNED BY: A. LEENHOUTS  
CHANNEL CROSS SECTIONS 1

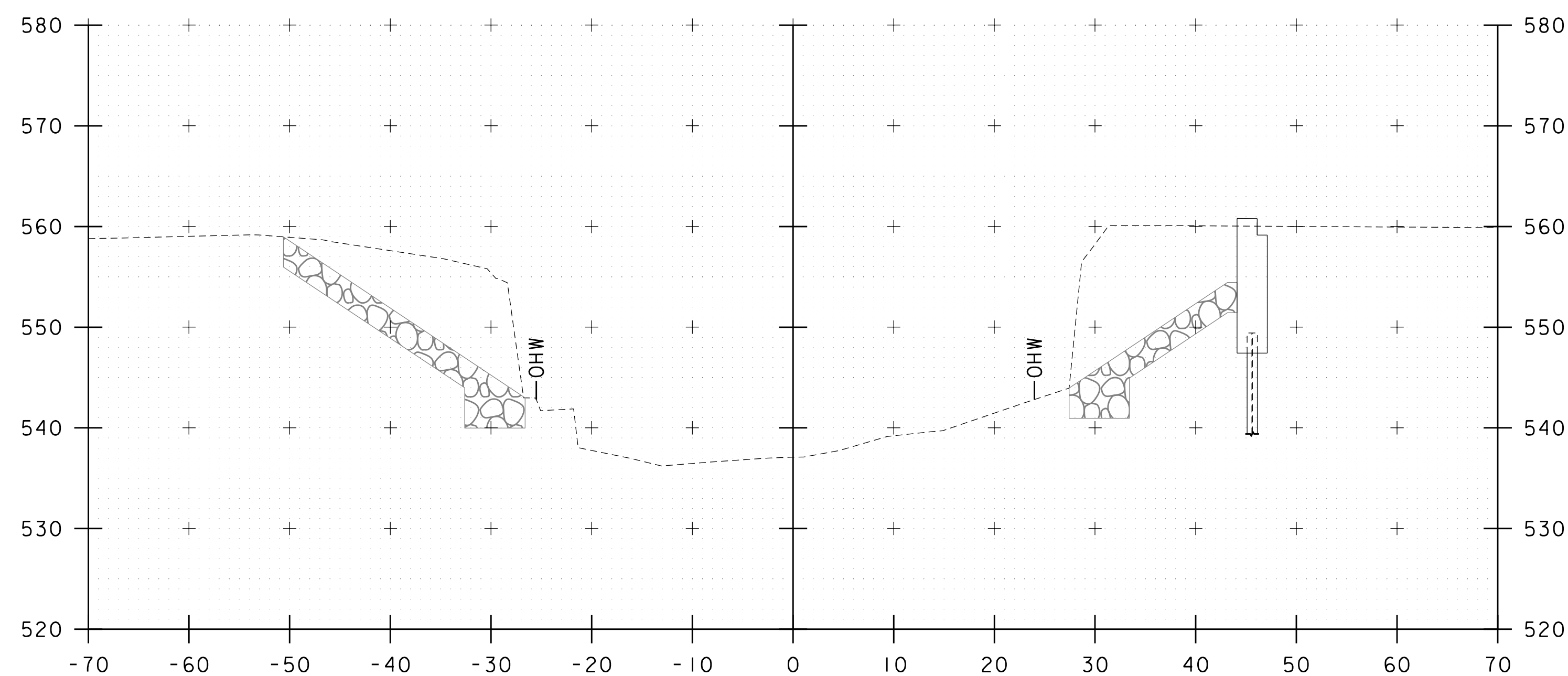
PLOT DATE: 7/20/2020  
DRAWN BY: A. LEENHOUTS  
CHECKED BY: -----  
SHEET 27 OF 32



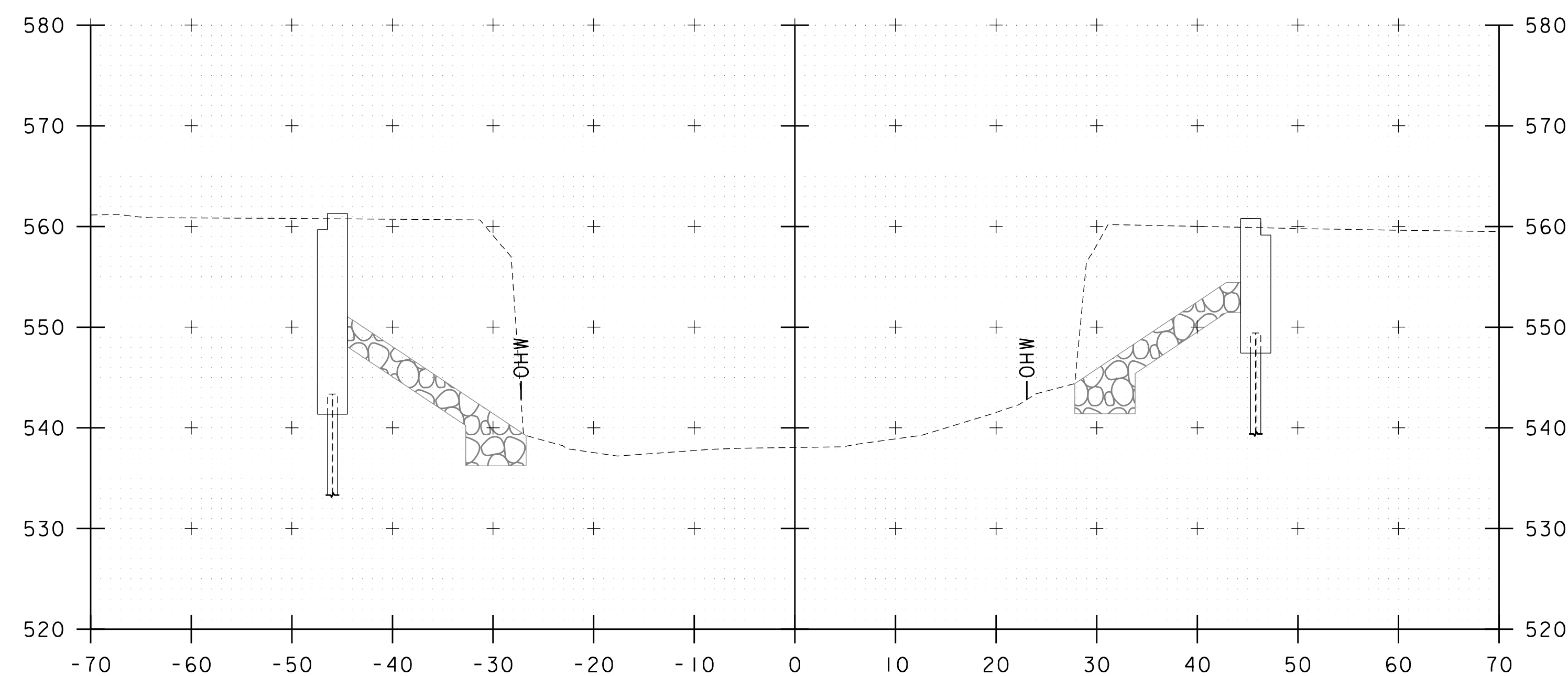
50+90



51+10

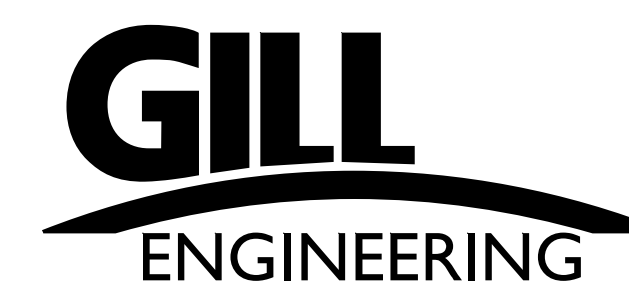


50+80

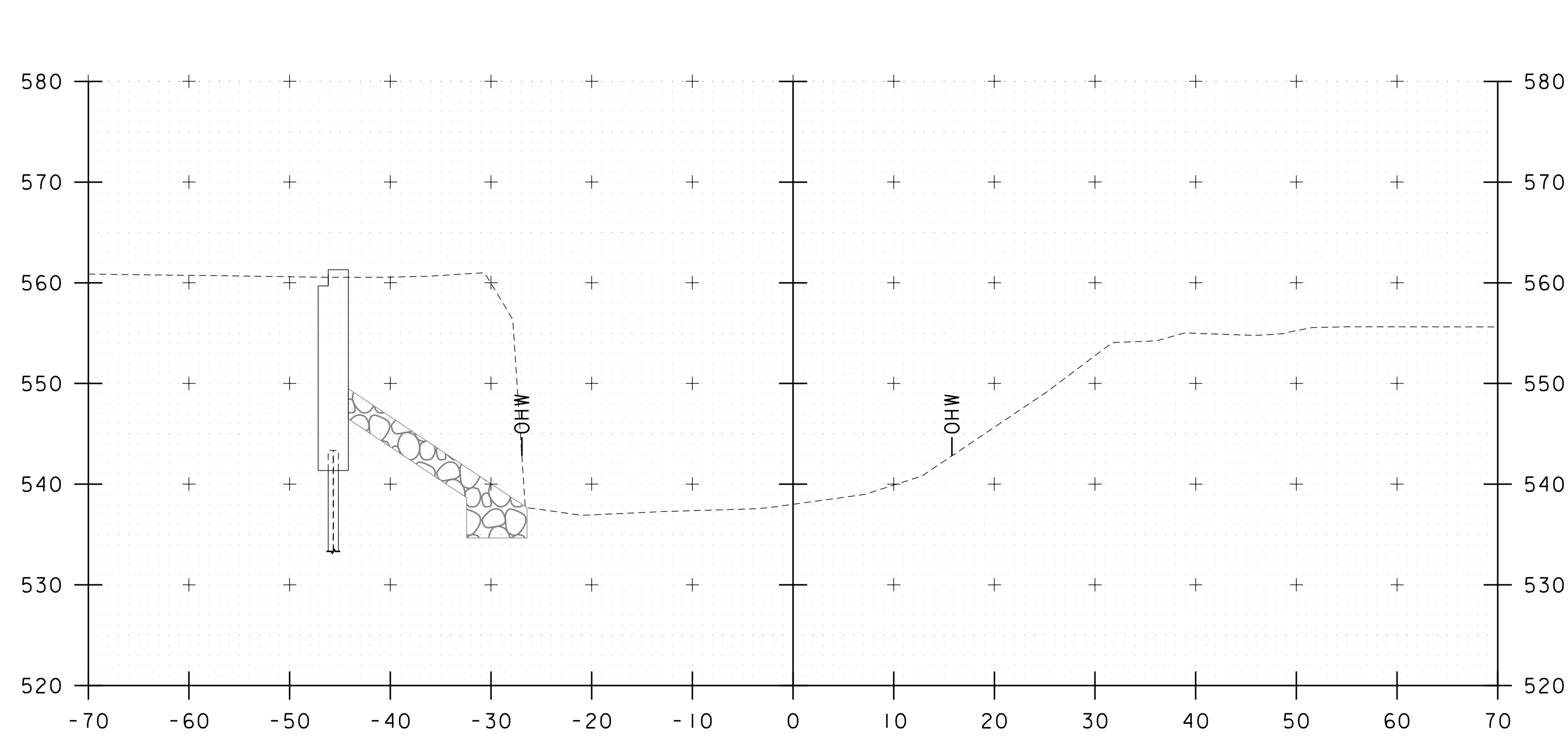


51+00

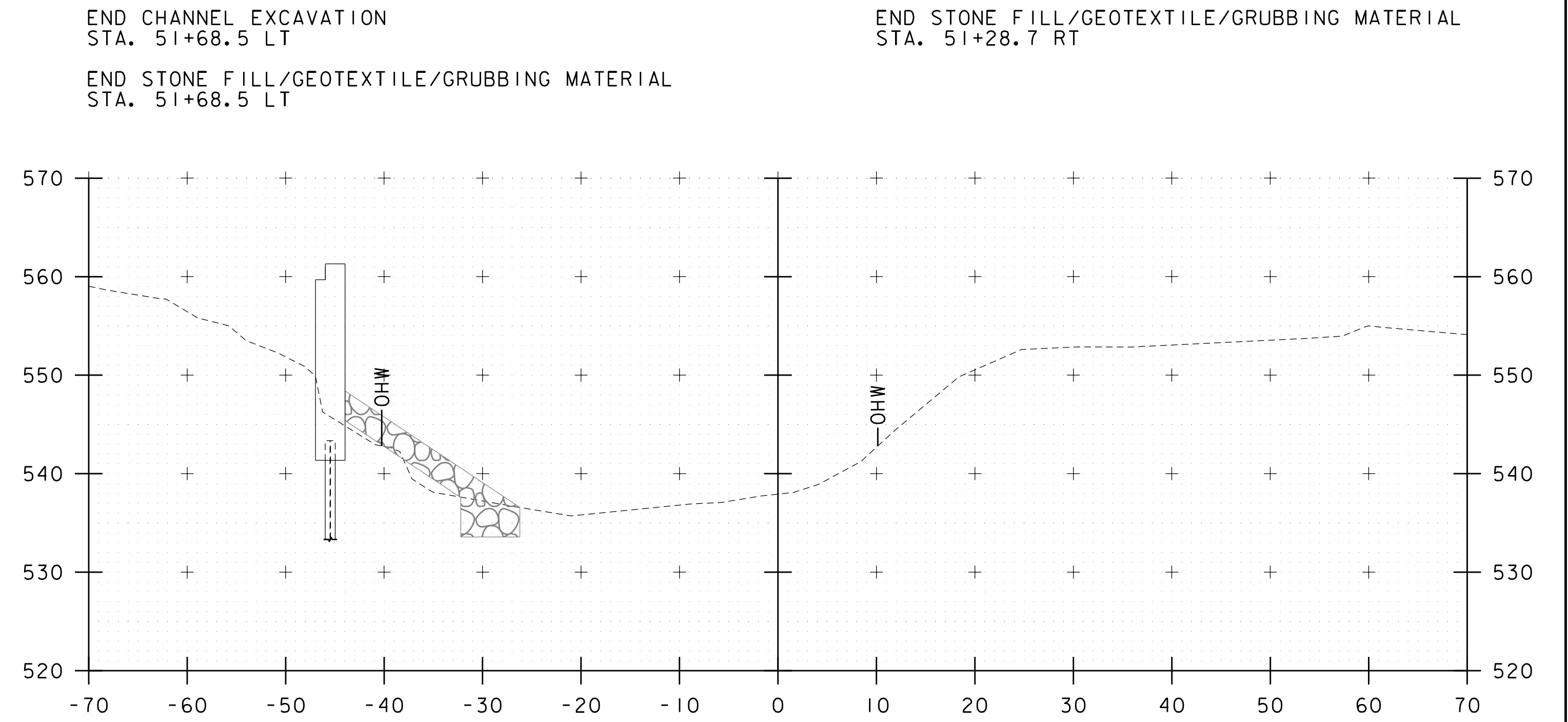
STA. 50+80 TO STA. 51+10



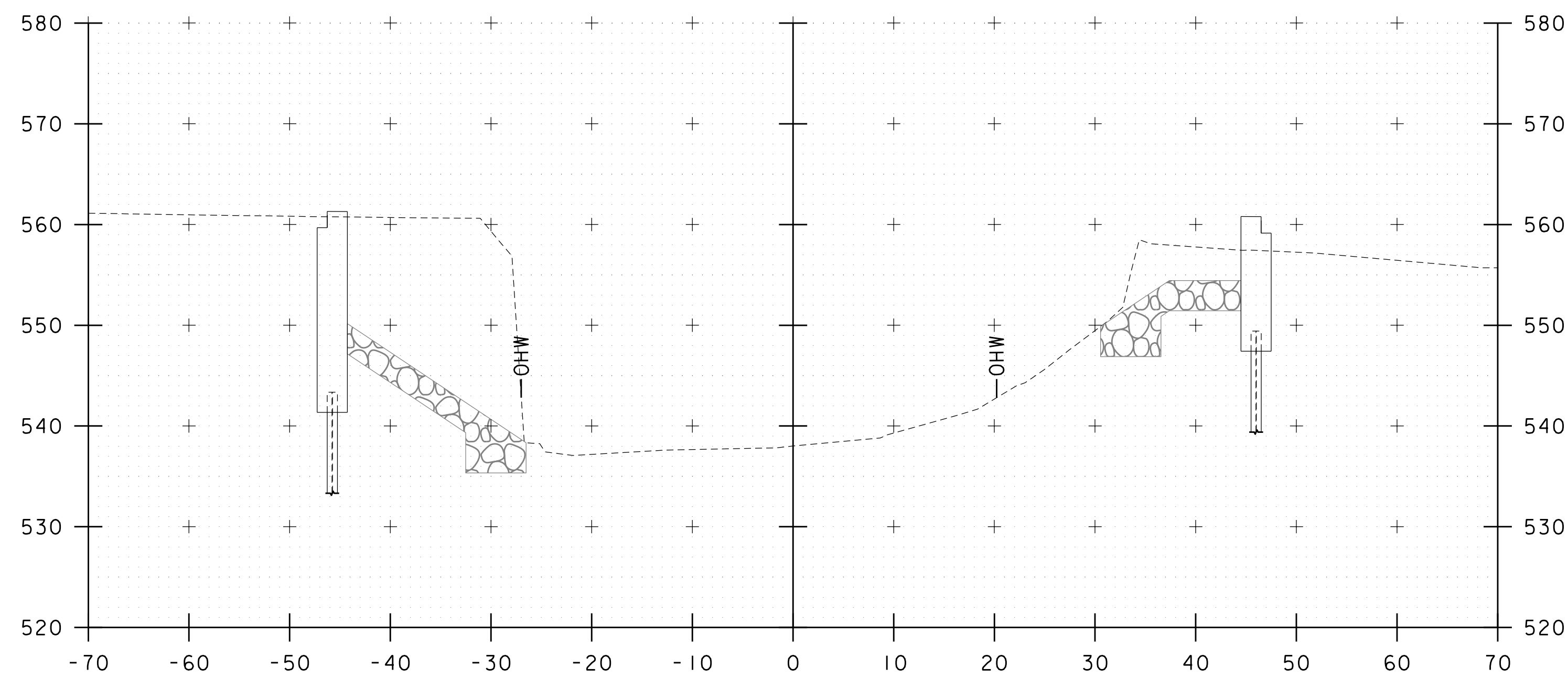
PROJECT NAME: BERLIN	PLOT DATE: 7/20/2020
PROJECT NUMBER: BF 026-1(43)	DRAWN BY: A. LEENHOUTS
FILE NAME: z13b254xs.dgn	CHECKED BY: -----
PROJECT LEADER: A.SPERA	SHEET 28 OF 32
DESIGNED BY: A. LEENHOUTS	
CHANNEL CROSS SECTIONS 2	



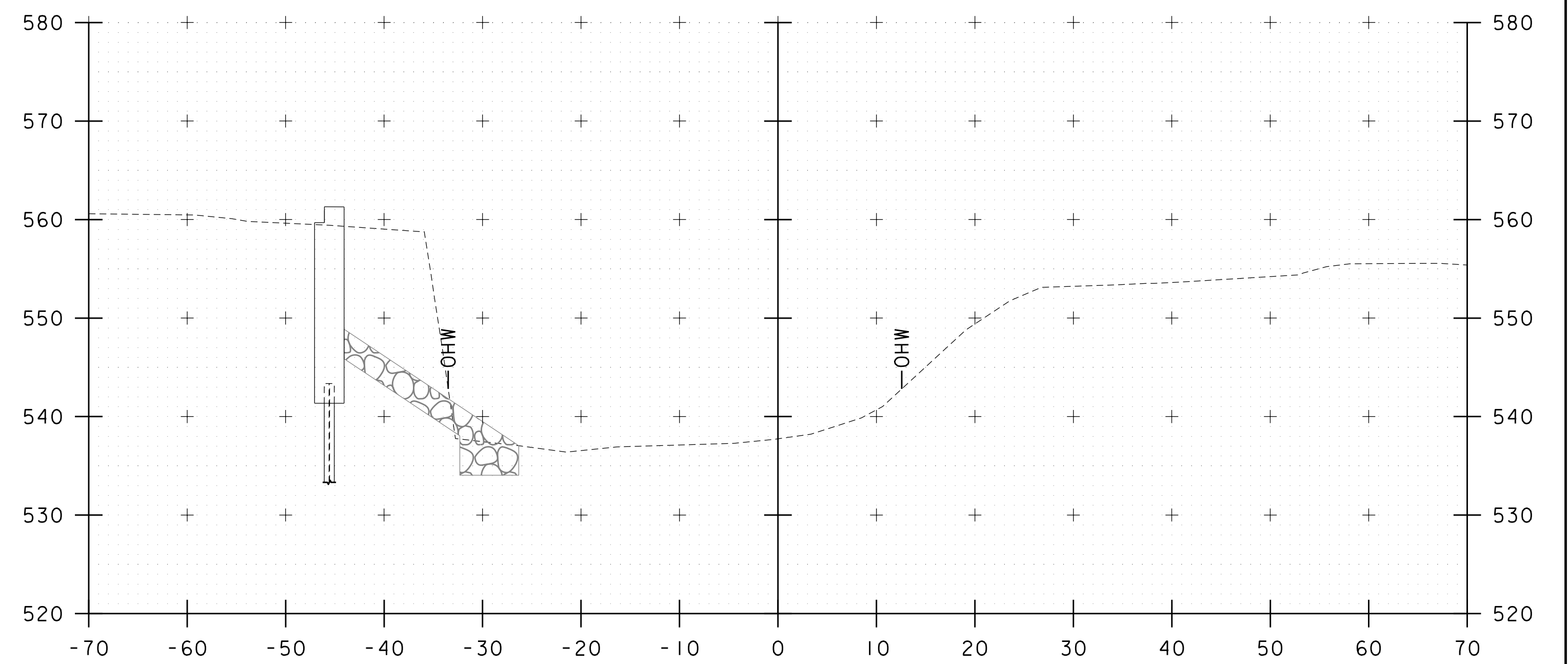
51+30



51+50



51+20

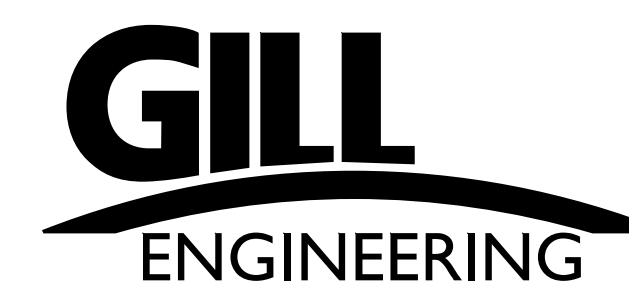


51+40

END CHANNEL EXCAVATION  
STA. 51+68.5 LT  
END STONE FILL/GEOTEXTILE/GRUBBING MATERIAL  
STA. 51+68.5 LT

END STONE FILL/GEOTEXTILE/GRUBBING MATERIAL  
STA. 51+28.7 RT

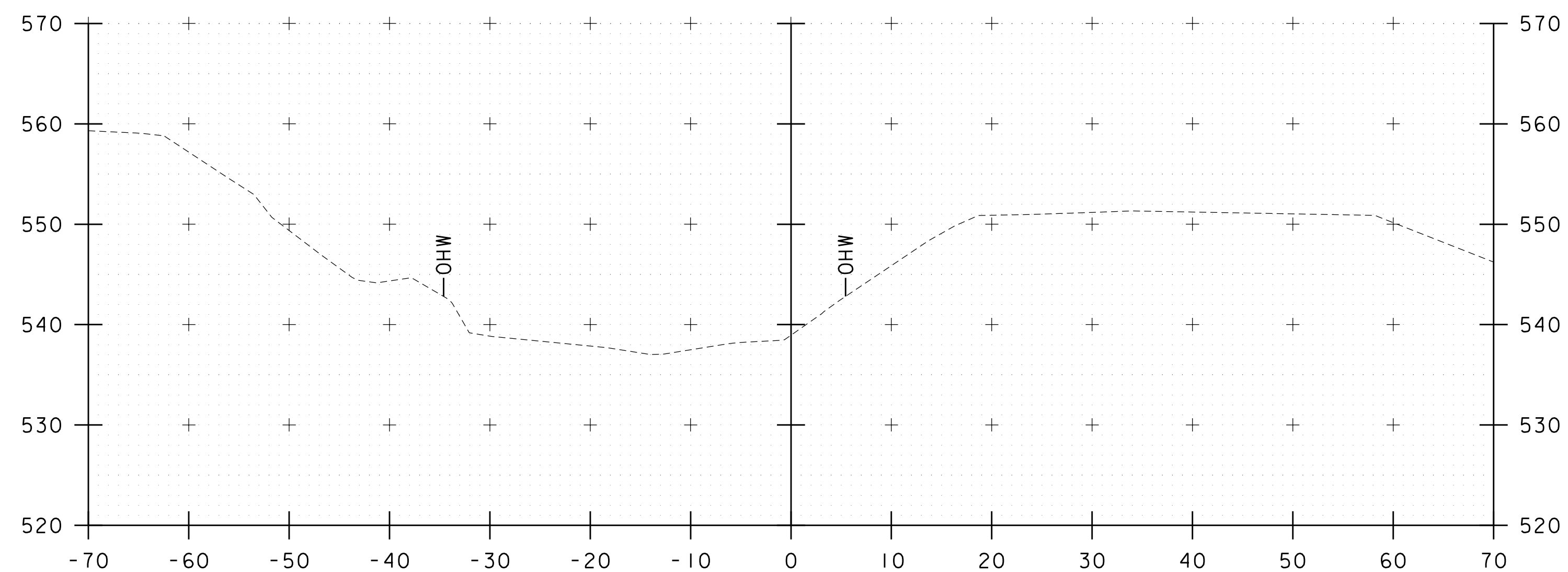
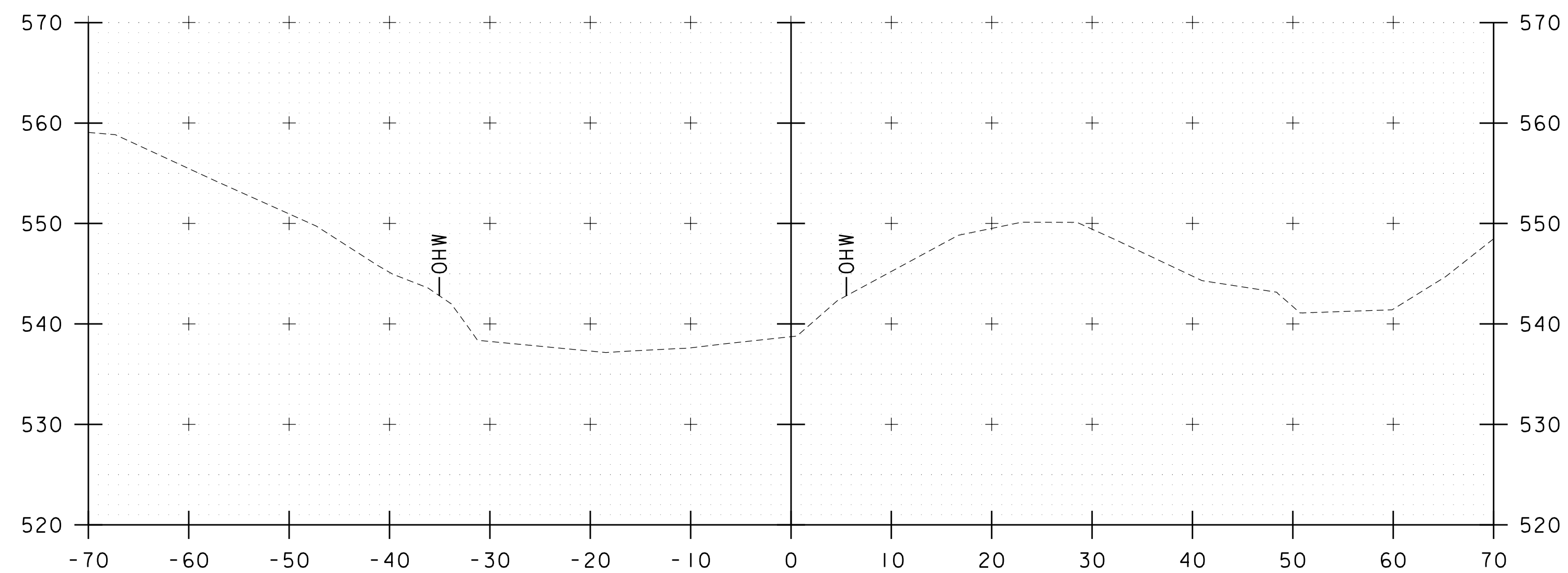
STA. 51+20 TO STA. 51+50



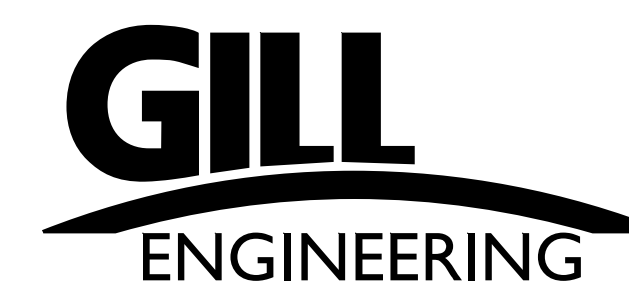
PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254xs.dgn  
PROJECT LEADER: A.SPORA  
DESIGNED BY: A. LEENHOUTS  
CHANNEL CROSS SECTIONS 3

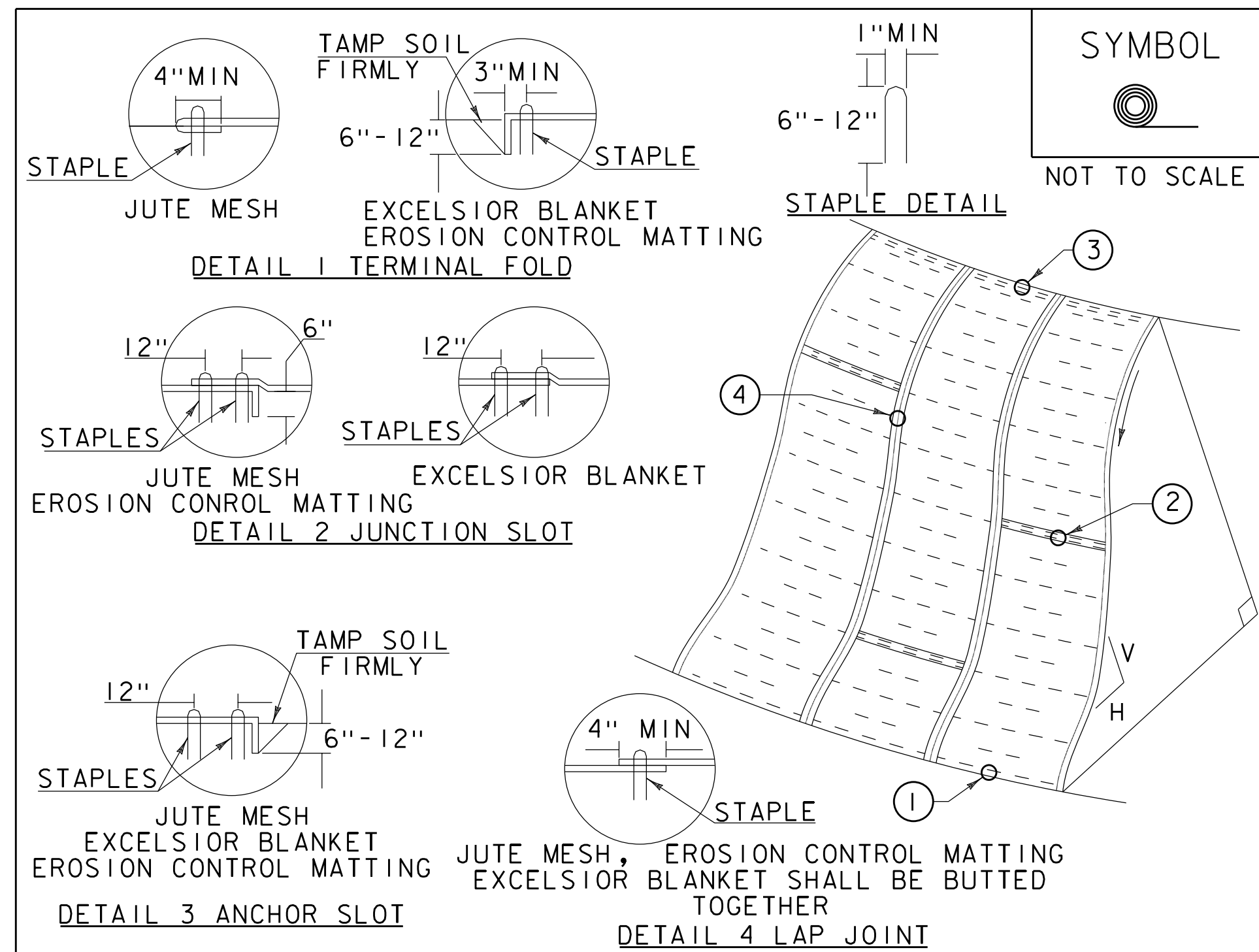
PLOT DATE: 7/20/2020  
DRAWN BY: A. LEENHOUTS  
CHECKED BY: -----  
SHEET 29 OF 32



STA. 51+75 TO STA. 52+00



PROJECT NAME: BERLIN	
PROJECT NUMBER: BF 026-1(43)	
FILE NAME: z13b254xs.dgn	PLOT DATE: 7/20/2020
PROJECT LEADER: A.SPERA	DRAWN BY: A. LEENHOUTS
DESIGNED BY: A. LEENHOUTS	CHECKED BY: -----
CHANNEL CROSS SECTIONS 4	SHEET 30 OF 32



**CONSTRUCTION SPECIFICATIONS**

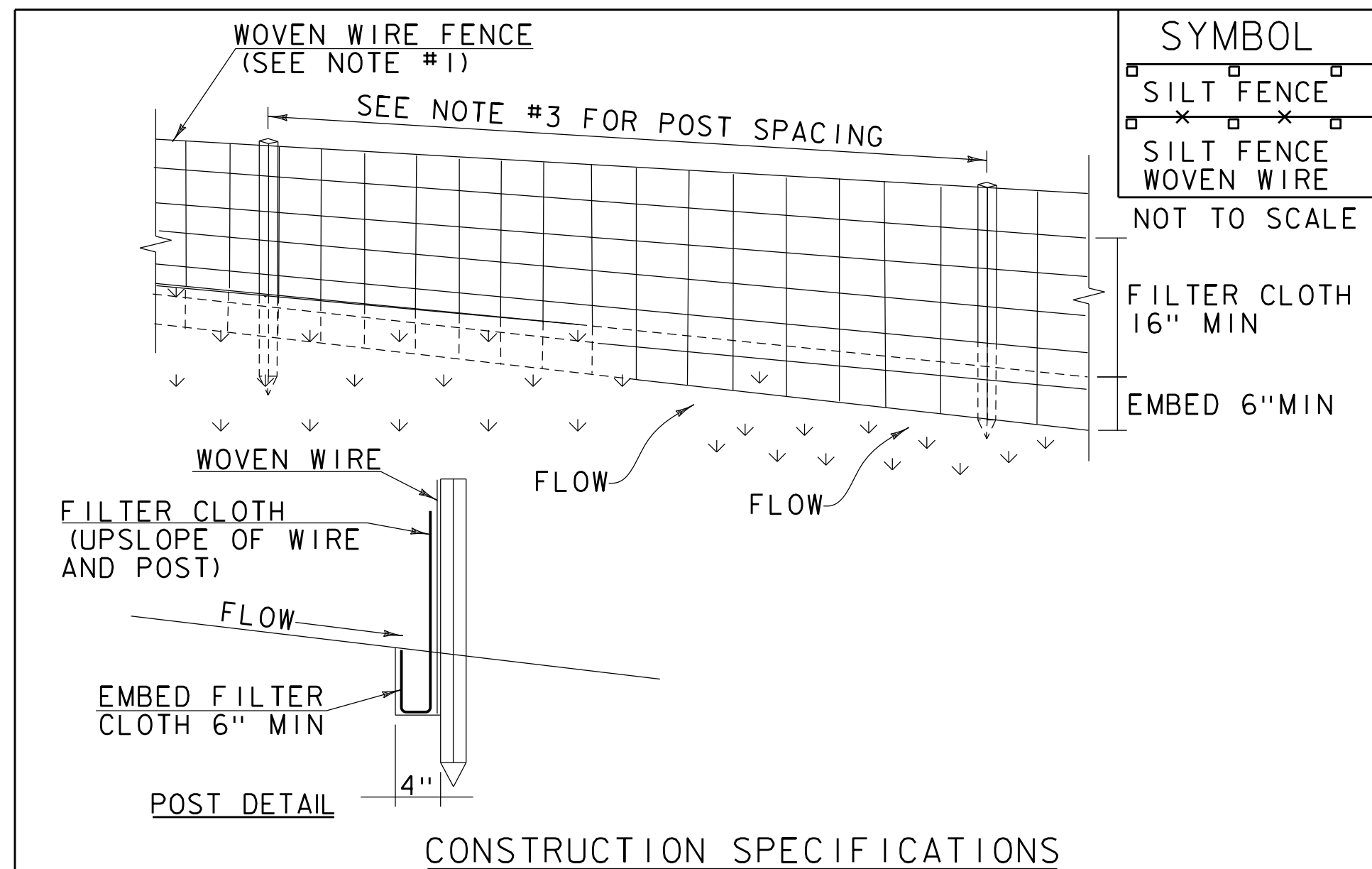
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**ROLLED EROSION  
CONTROL PRODUCT  
(RECP) SIDE SLOPE**

**NOTES:**  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.  
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR ROLLED EROSION CONTROL PRODUCT, TYPE I (PAY ITEM 653.20) OR ROLLED EROSION CONTROL PRODUCT, TYPE II (PAY ITEM 653.21)

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF



**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

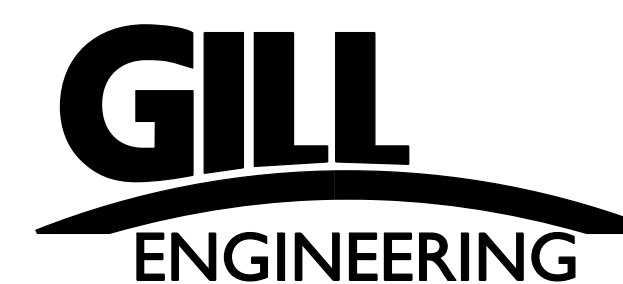
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SILT FENCE**

**NOTES:**  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR SILT FENCE TYPE I (PAY ITEM 653.475).

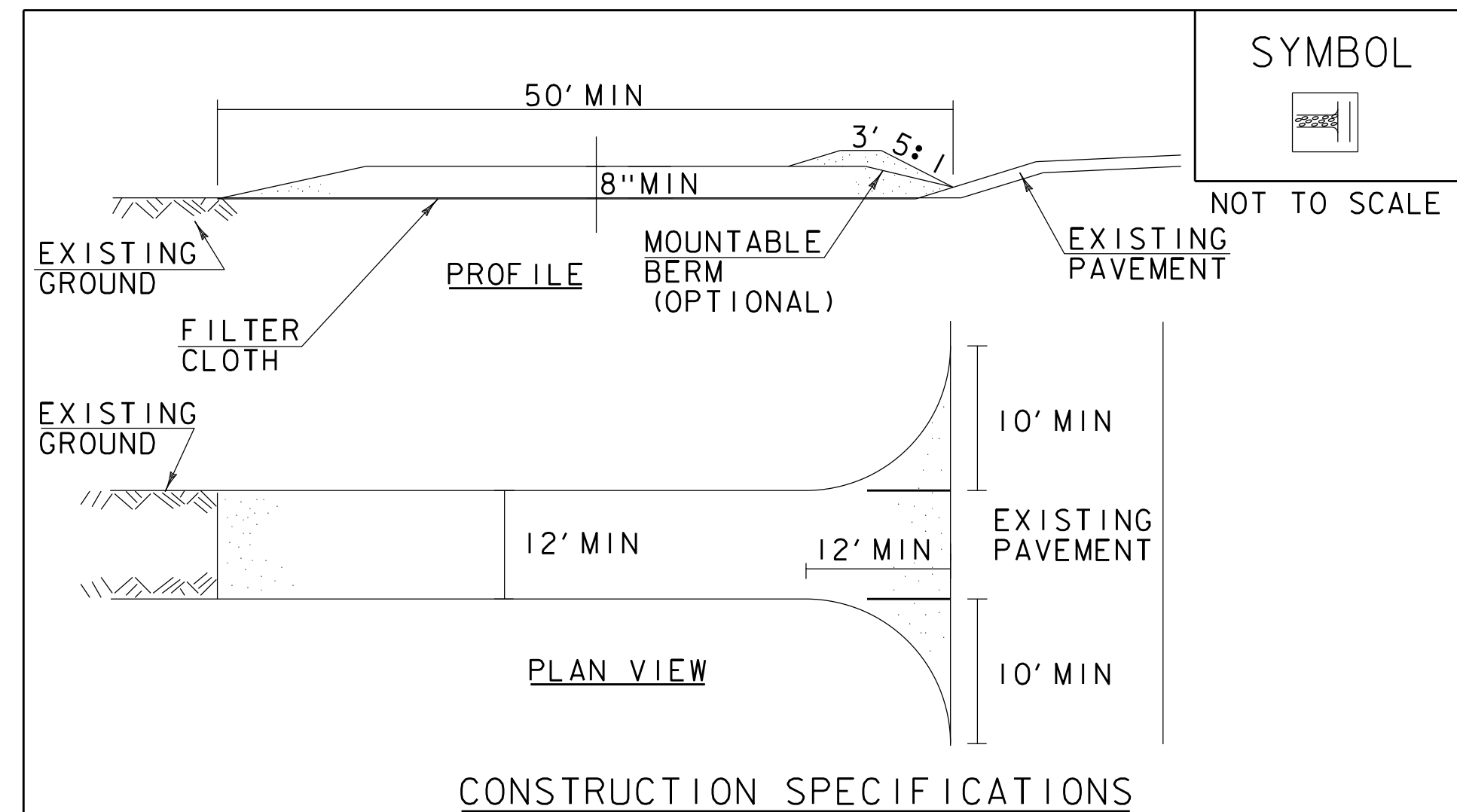
REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF



PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254erodetails.dgn  
PROJECT LEADER: A.SPORA  
DESIGNED BY: S.CARPENTER  
EPSC DETAILS I

PLOT DATE: 7/20/2020  
DRAWN BY: Y.SIMONSON  
CHECKED BY: -----  
SHEET 31 OF 32



- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
  3. THICKNESS- NOT LESS THAN 8".
  4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
  5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
  6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

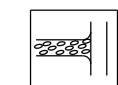
**STABILIZED  
CONSTRUCTION  
ENTRANCE**

**NOTES:**  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR  
EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM  
THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL  
GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH  
SECTION 653 FOR STABILIZED CONSTRUCTION ENTRANCE (PAY  
ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

**SYMBOL**



NOT TO SCALE

VAOT LOW GROW / FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

**GENERAL AMENDMENT GUIDANCE**

FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

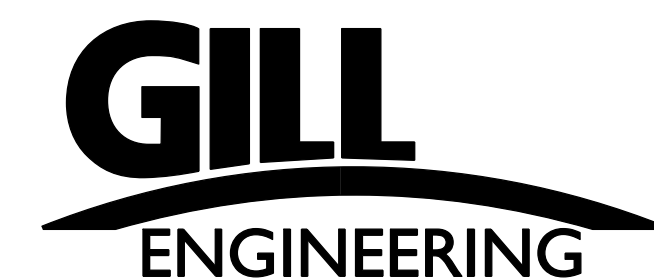
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR  
ROADWAYS AND TRANSPORTATION FACILITIES

**TURF ESTABLISHMENT**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH  
SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



PROJECT NAME: BERLIN  
PROJECT NUMBER: BF 026-1(43)

FILE NAME: z13b254erode+ails.dgn PLOT DATE: 7/20/2020  
PROJECT LEADER: A.SPERA DRAWN BY: Y.SIMONSON  
DESIGNED BY: S.CARPENTER CHECKED BY: -----  
EPSC DETAILS 2 SHEET 32 OF 32