

REVIEWER NOTES:

- 1) VTRANS HAS RECEIVED APPROVAL FROM VRS TO USE A VERTICAL CLEARANCE ABOVE THE RAILROAD OF 21'-0".
- 2) THIS PROJECT WILL REQUIRE UTILITY RELOCATION.
- 3) CONSTRUCTION OF THE NEW BRIDGE WILL BE DONE DURING A 90 DAY CLOSURE PERIOD. TRAFFIC WILL BE DETOURED ONTO PLEASANT STREET AND GORHAM BRIDGE ROAD. A TEMPORARY TRAFFIC SIGNAL WILL BE PROVIDED AT THE RR UNDERPASS ON PLEASANT STREET.
- 4) PEDESTRIANS TRAFFIC AND THE WATERLINE WILL BE MAINTAINED ON A TEMPORARY STRUCTURE OVER THE RR EAST OF THE BRIDGE.
- 5) TOTAL EARTH DISTURBANCE FOR THE PROJECT IS 0.75 ACRES, PROJECT WILL FALL UNDER NON-JURISDICTIONAL, TYPE II PER THE NEW STRUCTURES EPSC PROTOCOL, A COMPLETE EPSC PLAN WILL NOT BE SHOWN IN THE PLANS. ESTIMATED QUANTITIES WILL BE PROVIDED.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF PROCTOR

COUNTY OF RUTLAND

ROUTE NO : TH 11, LOCAL ROAD - URBAN COMPACT

BRIDGE NO : 3

PROJECT LOCATION:

BEGINNING 0.15 MILES NORTH OF THE INTERSECTION OF MAIN STREET AND NORTH STREET AND EXTENDING 0.07 MILES NORTH ON NORTH STREET.

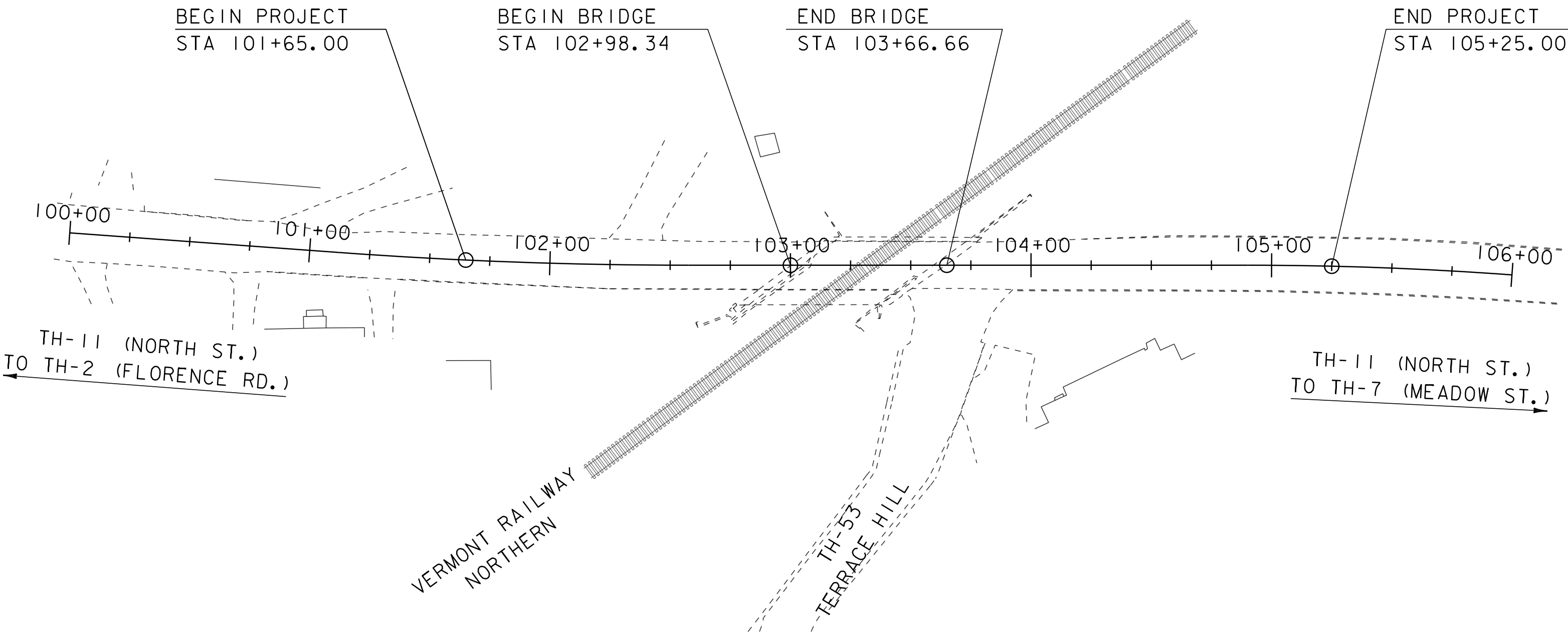
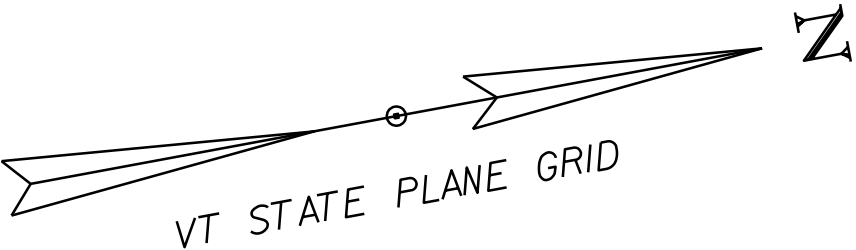
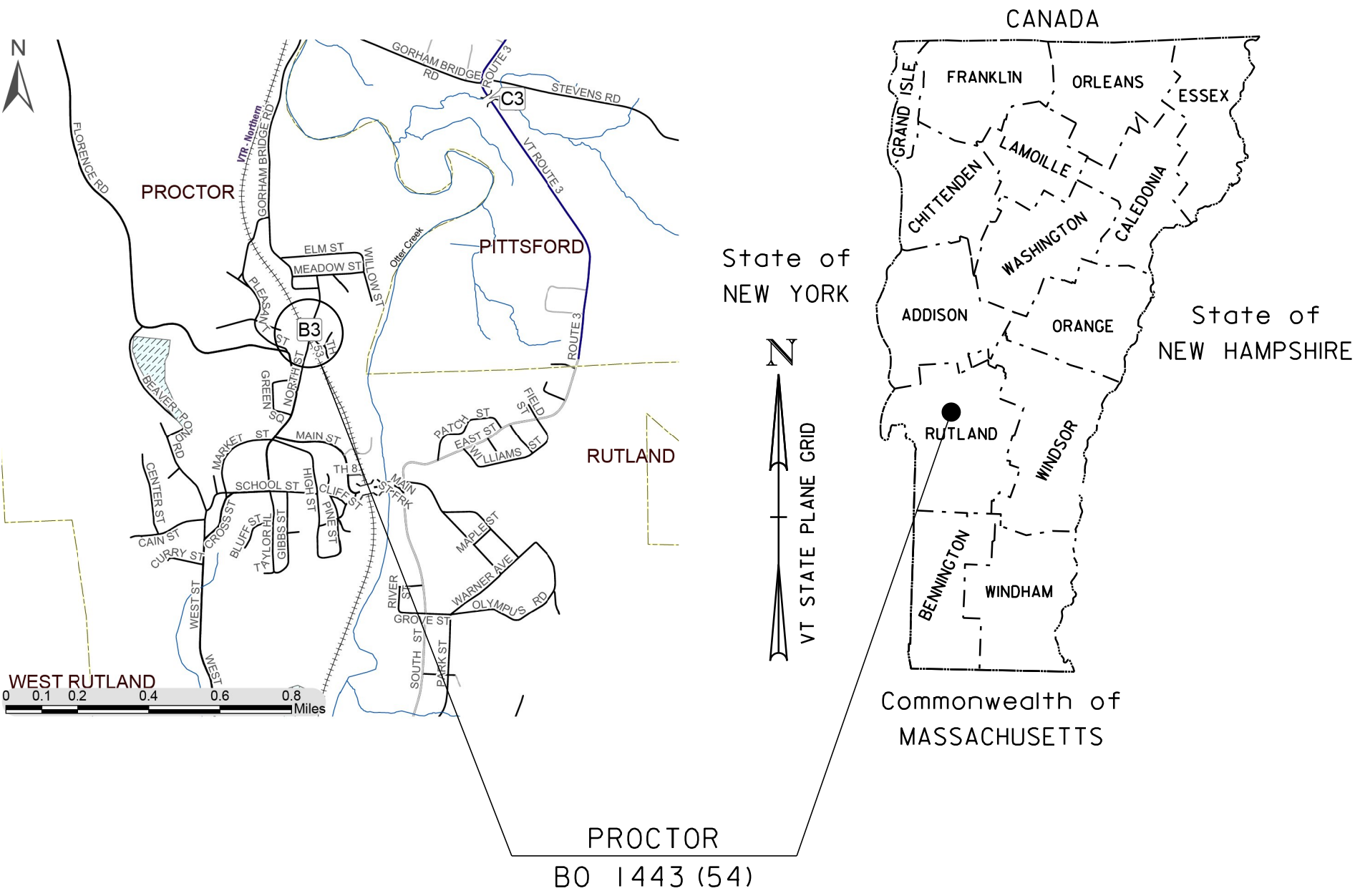
PROJECT DESCRIPTION:

REPLACEMENT OF EXISTING BRIDGE TO INCLUDE THE SUPERSTRUCTURE AND SUBSTRUCTURE AND APPROACH ROADWAY WORK.

LENGTH OF STRUCTURE: 68.32 FEET

LENGTH OF ROADWAY: 291.68 FEET

LENGTH OF PROJECT: 360.00 FEET



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 :	R. GILMAN
SURVEYED DATE :	2/16/2017
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (2011)

PRELIMINARY PLANS

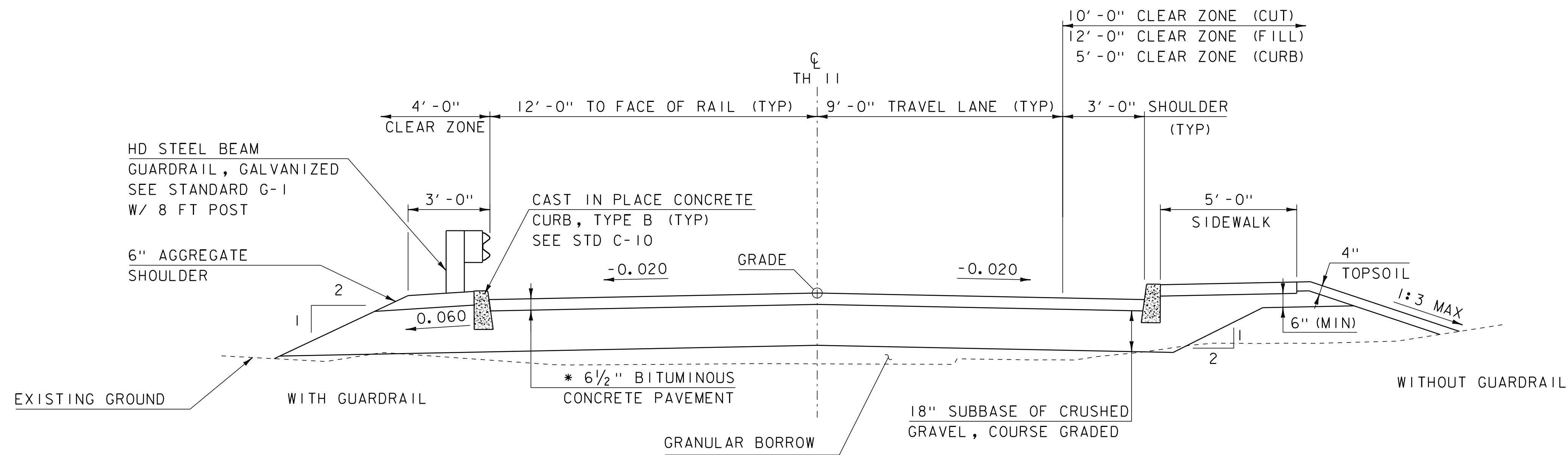
13-MAY-2019

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN CARLSON, P.E.	
PROJECT NAME : PROCTOR	
PROJECT NUMBER : B0 1443 (54)	
SHEET 1 OF 33 SHEETS	

SCALE 1" = 40' - 0"

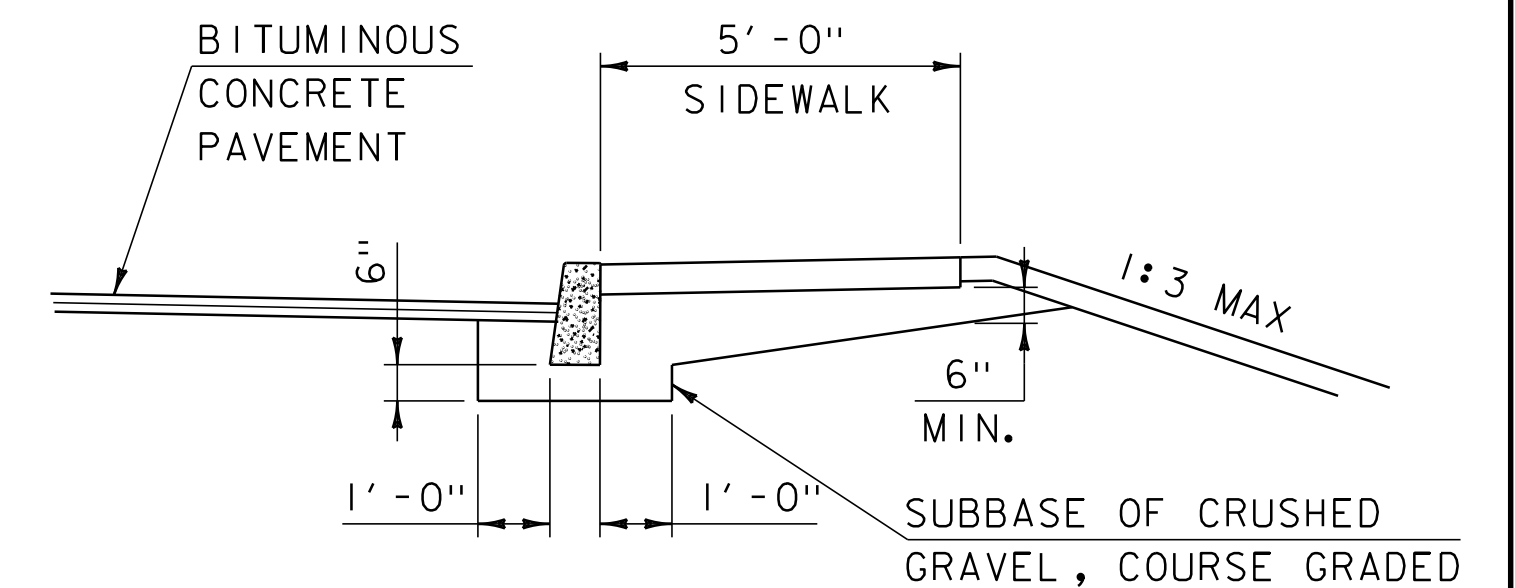
40 0 40

[illegible]



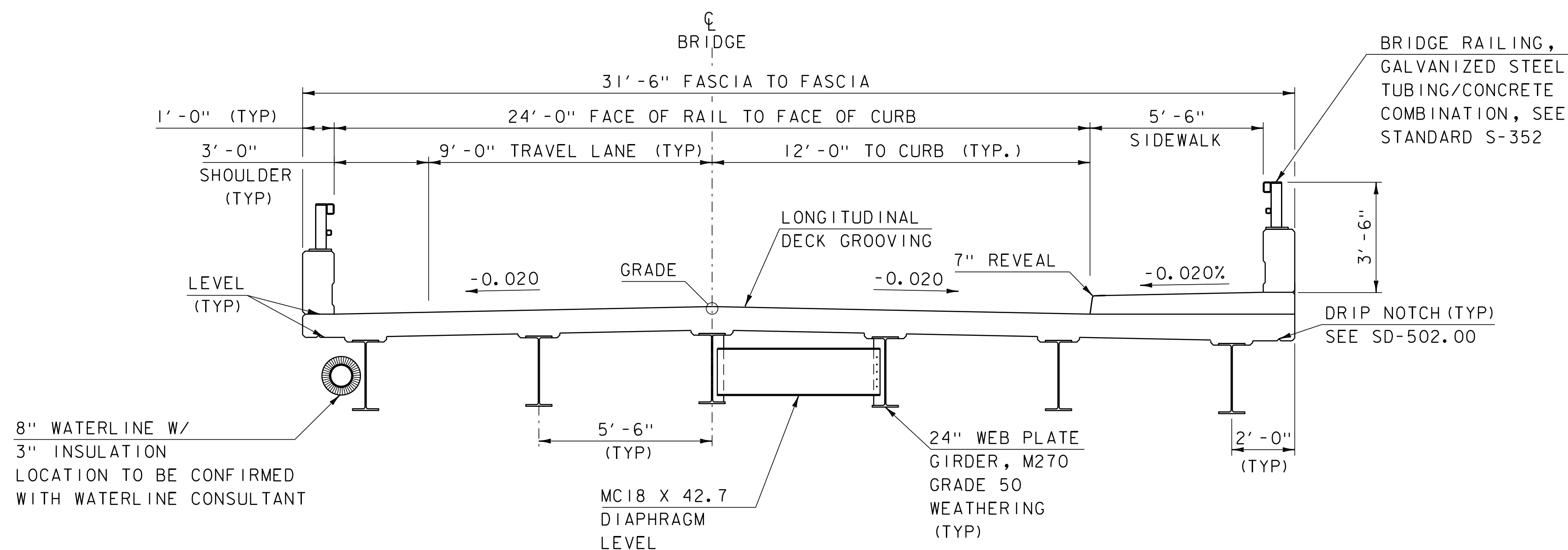
* 1 1/2" LIFT TYPE IVS OVER
1 1/2" LIFT TYPE IVS OVER
3 1/2" LIFT TYPE IIS

PROPOSED TH 11 TYPICAL SECTION
SCALE 3/8" = 1'-0"

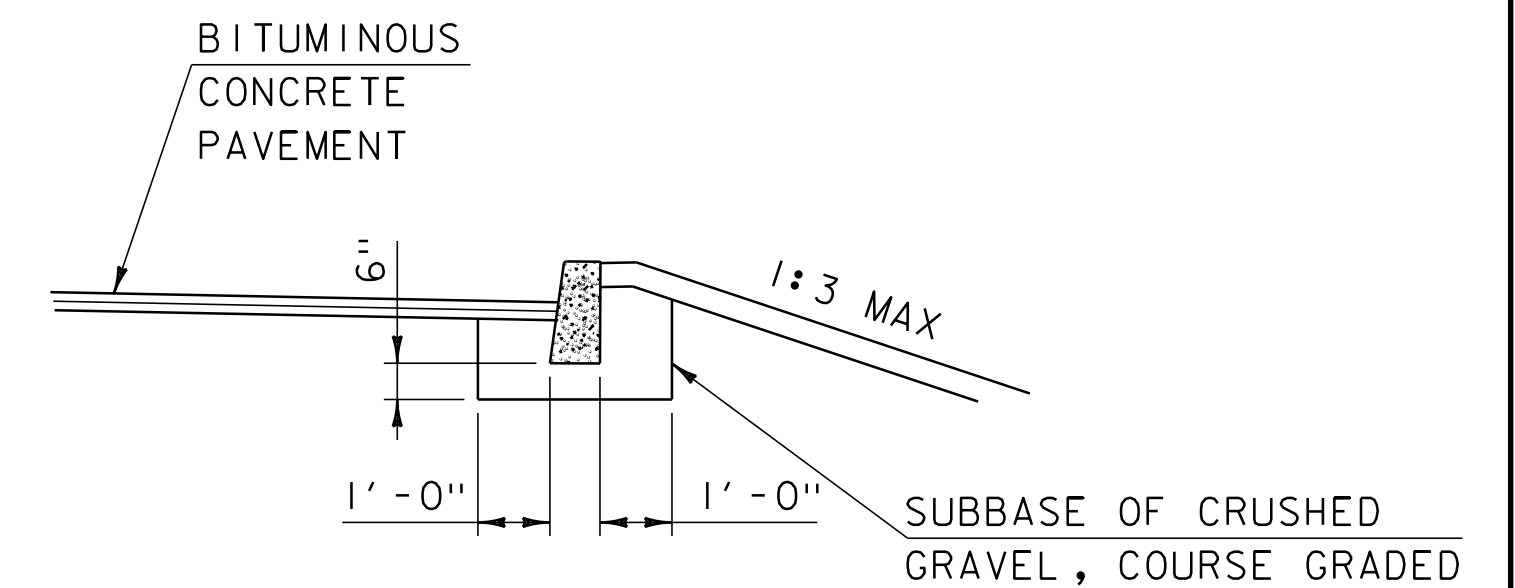


CURB WITH SIDEWALK
SCALE 3/8" = 1'-0"

STA 100+30.00 LT - 100+84.00 LT
STA 100+80.00 RT - 101+25.00 RT



PROPOSED BRIDGE TYPICAL SECTION
SCALE 3/8" = 1'-0"



CURB WITH SIDESLOPE
SCALE 3/8" = 1'-0"

STA 105+65.00 LT - 106+00.00 LT

STA 3+60.00 - STA 3+93.00 RT
STA 3+60.00 - STA 3+75.00 LT

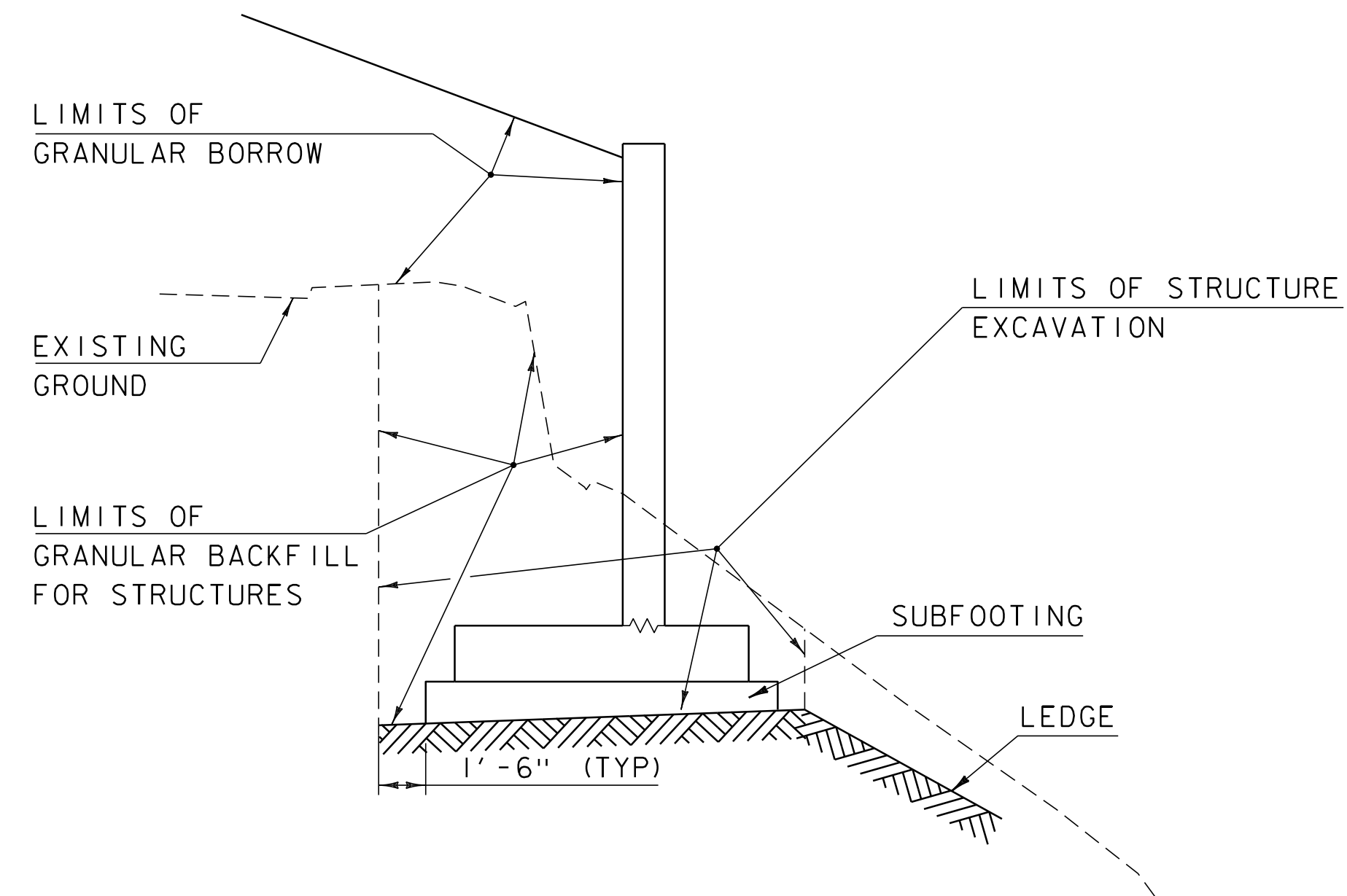
MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

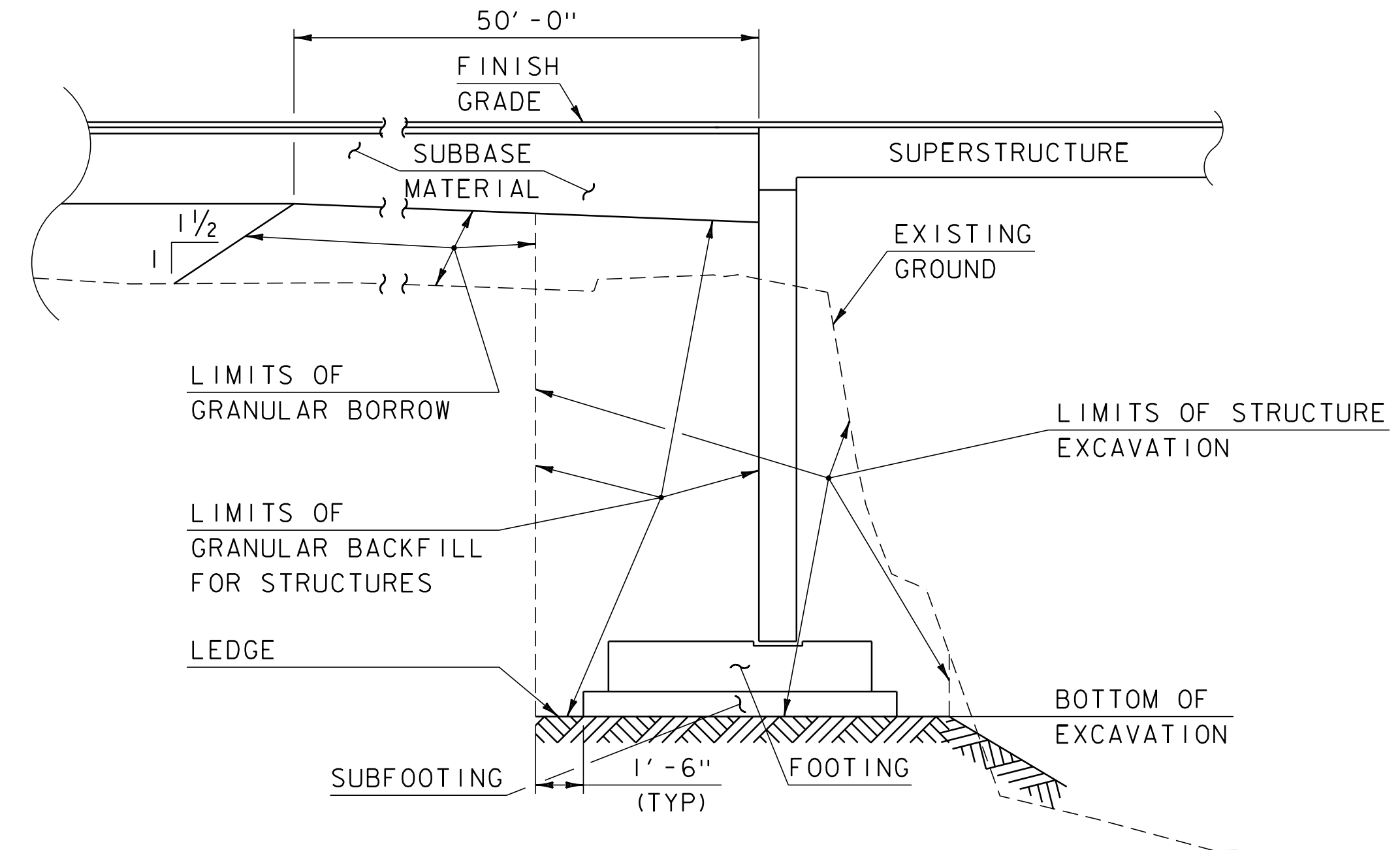
PROJECT NAME: PROCTOR
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003typ.dgn
PROJECT LEADER: C.CARLSON
DESIGNED BY: D.PETERSON
TYPICAL SECTIONS 1

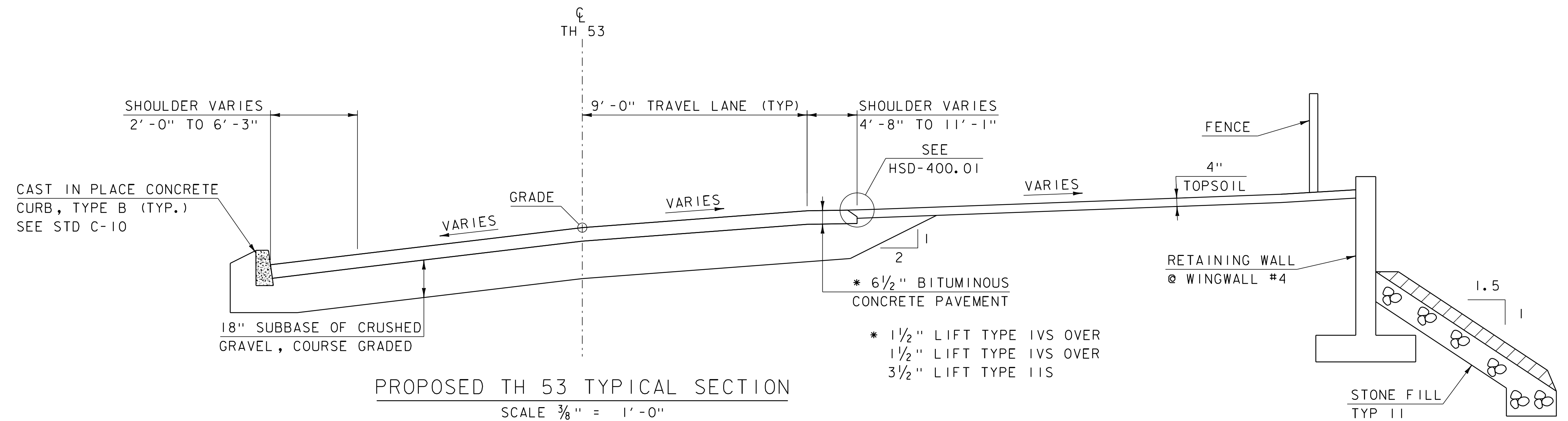
PLOT DATE: 13-MAY-2019
DRAWN BY: M.LONGSTREET
CHECKED BY: D.PETERSON
SHEET 3 OF 33



TYPICAL WINGWALL SECTION
(NOT TO SCALE)



TYPICAL ABUTMENT SECTION
(NOT TO SCALE)



PROPOSED TH 53 TYPICAL SECTION
SCALE $\frac{3}{8}$ " = 1'-0"

PROJECT NAME: PROCTOR
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003typ.dgn
PROJECT LEADER: C.CARLSON
DESIGNED BY: D.PETERSON
TYPICAL SECTIONS 2

PLOT DATE: 13-MAY-2019
DRAWN BY: M.LONGSTREET
CHECKED BY: D.PETERSON
SHEET 4 OF 33

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
■	BDNS	BOUND SET
▣	BDNS	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
xxxxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES	
————— TOWN LINE —————	TOWN BOUNDARY LINE
————— COUNTY LINE —————	COUNTY BOUNDARY LINE
————— STATE 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 — P — L —	PROPERTY LINE (P/L)
△ — SR — ○ — 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
▣ — X — ▣ — X — ▣	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
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES	
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
—————	FOUNDATION
x — x — x — x —	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: PROCTOR	
PROJECT NUMBER: BO 1443(54)	
FILE NAME: sl6b003forms.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
SYMBOLGY LEGEND	SHEET 5 OF 33

NETWORK CONTROL

HVCTRL #1  
PROCTOR 1944  
NORTH =424016.51000  
EAST = 1498594.470  
ELEV. = 477.5000

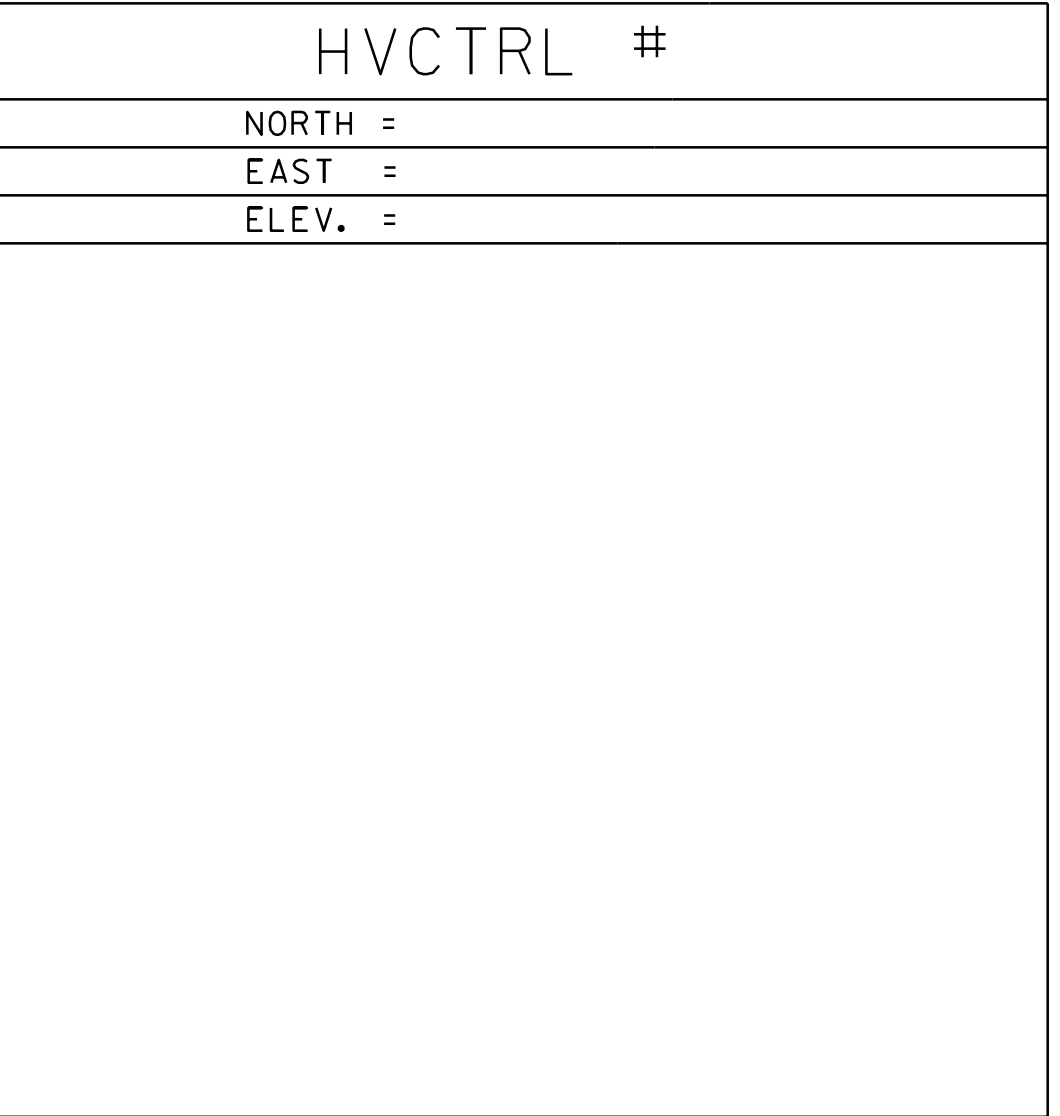
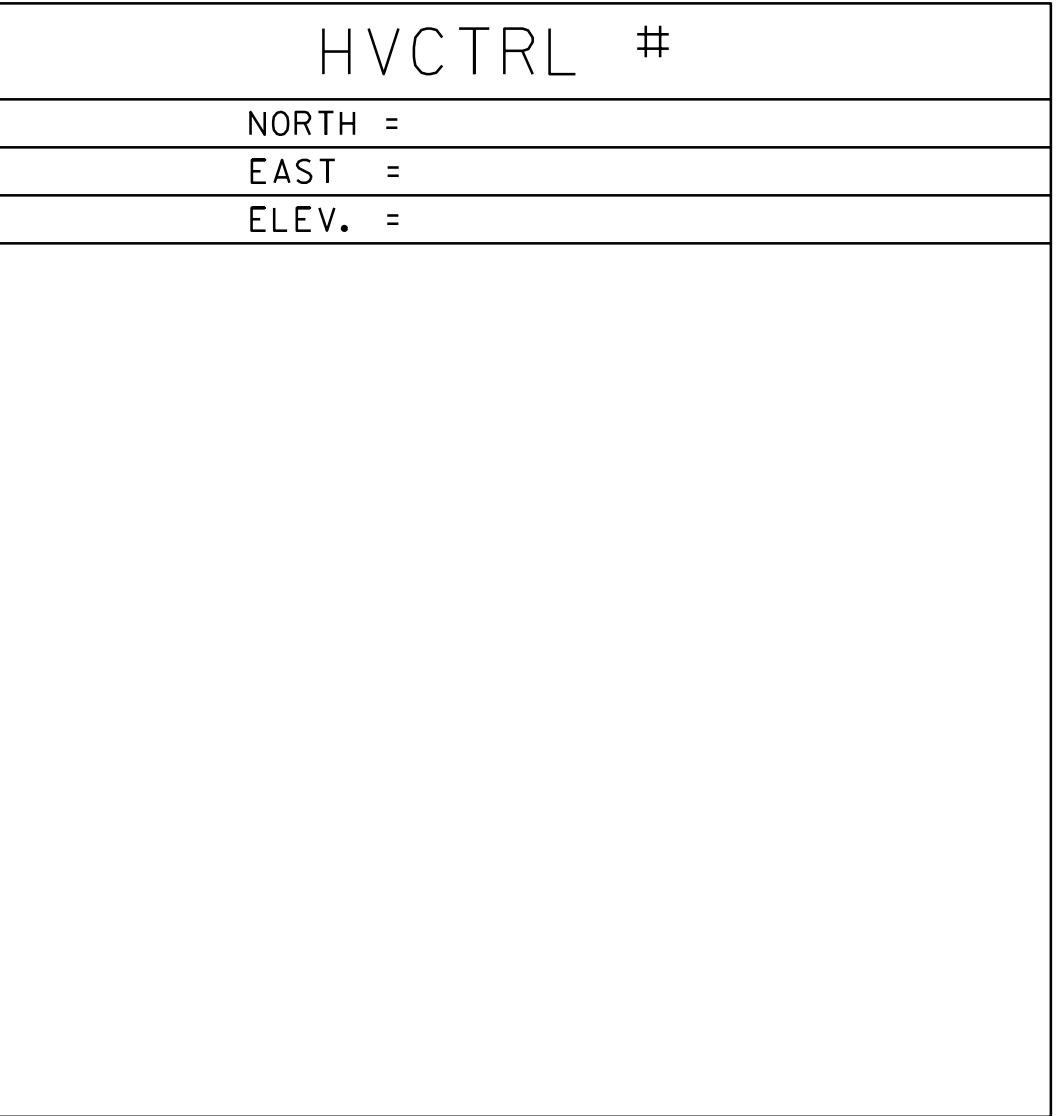
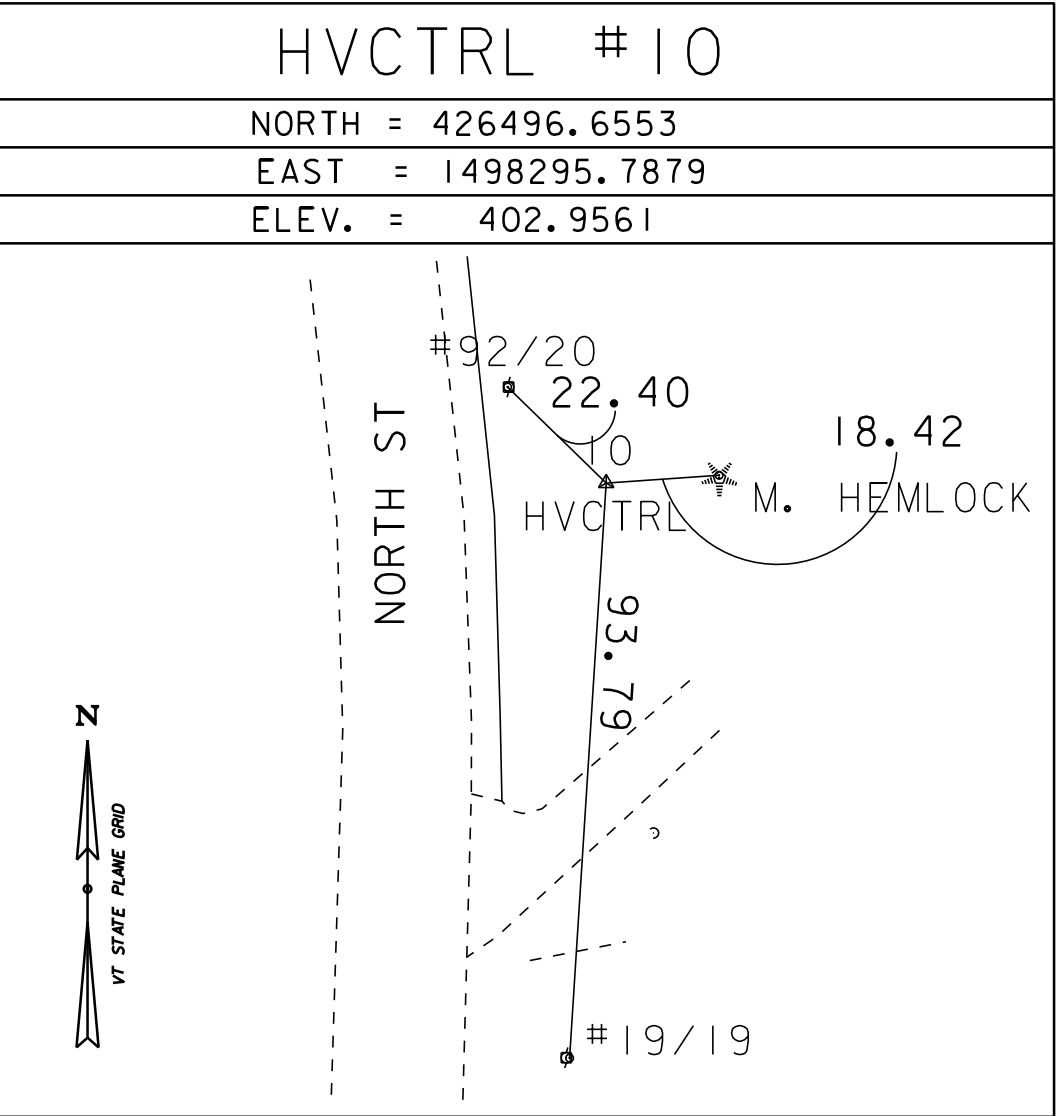
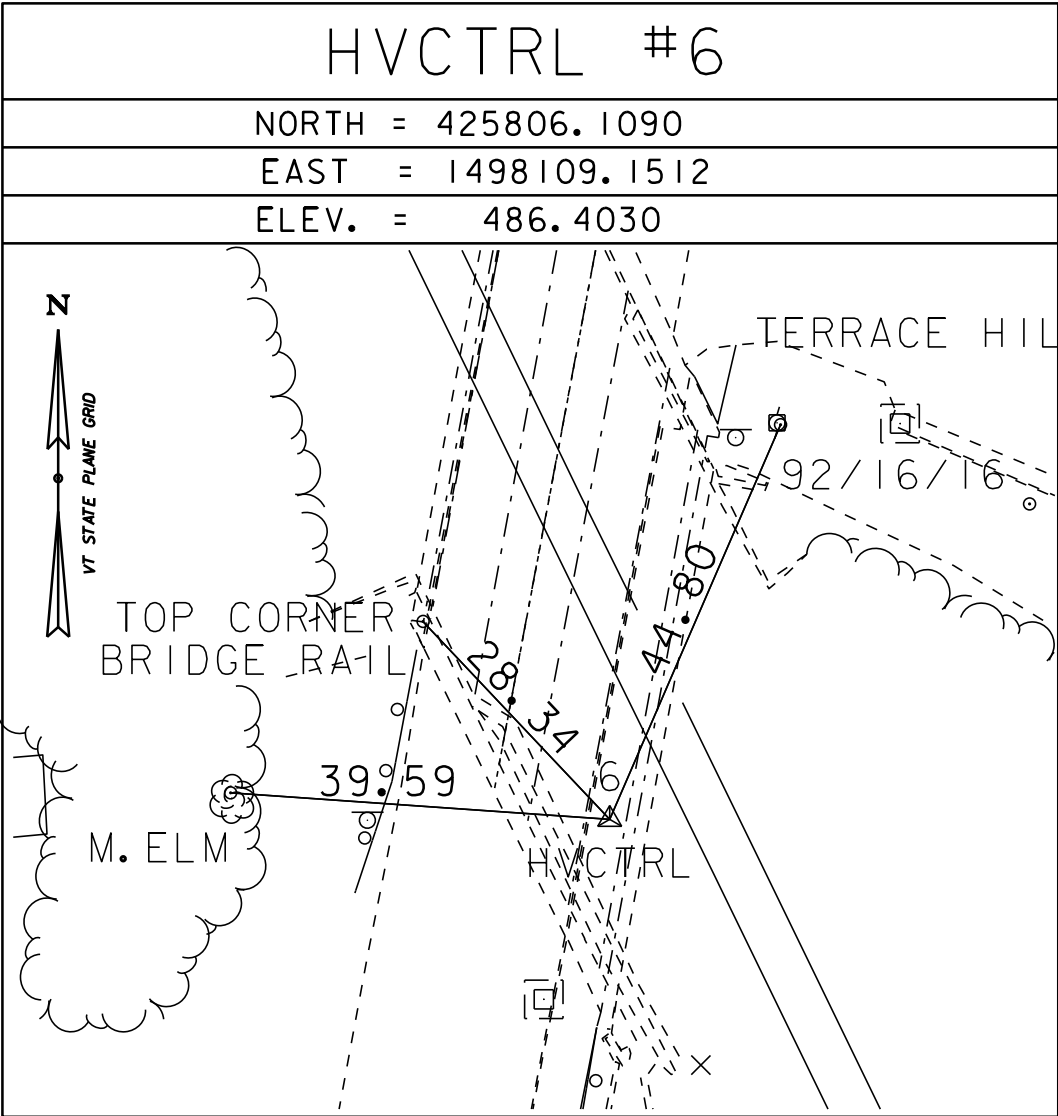
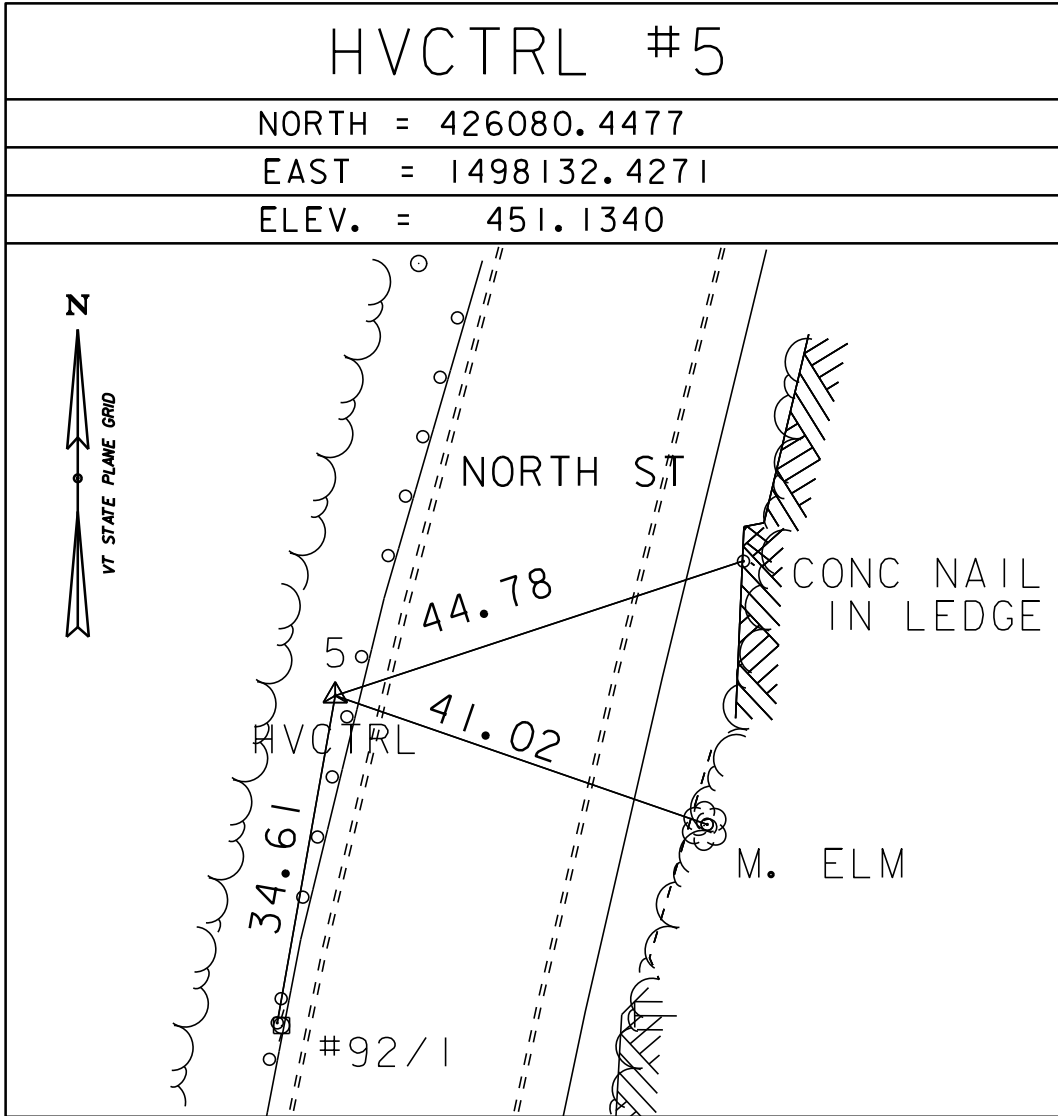
GENERAL LOCATION, PROCTOR, VT.  
TO REACH FROM THE INTERSECTION OF VT  
ROUTE 3 AND U.S.ROUTE 7 AT THE SOUTH END OF PITTSFORD VILLAGE GO SOUTH  
ALONG VT ROUTE 3 FOR 3.5 MI (5.6 KM) TO THE INTERSECTION OF MAIN  
STREET RIGHT AND ORMSBEE AVENUE LEFT. TURN RIGHT AND GO WEST ALONG  
MAIN STREET FOR 0.15 MI (0.24 KM) TO THE INTERSECTION OF CHURCH STREET  
STRAIGHT AND MAIN STREET RIGHT. TURN RIGHT AND GO NORTH ALONG MAIN  
STREET FOR 0.1 MI (0.2 KM) TO THE SITE OF THE MARK ON THE LEFT IN A  
LAWN ON THE NORTH SIDE OF THE STONE MASONRY TOWN CLERKS OFFICE  
BUILDING. THE MARK IS SET IN THE TOP OF A 1 M (3.3 FT) X 0.4 M (1.3  
FT) ROCK OUTCROP WHICH PROJECTS ABOUT 4 CM ABOVE THE SURFACE OF THE  
LAWN. IT IS 17.0 M (55.8 FT) WEST OF AND ABOUT 2 M (6.6 FT) HIGHER  
THAN THE CENTERLINE OF MAIN STREET, 7.4 M (24.3 FT) NORTHEAST OF THE  
NORTHEAST CORNER OF THE TOWN CLERKS OFFICE BUILDING (ACTUAL BUILDING  
CORNER, NOT PORCH CORNER) , 7.1 M (23.3 FT) NORTHWEST OF THE NORTHEAST  
CORNER OF A STONE MASONRY RETAINING WALL IN FRONT OF THE BUILDING, 8.8  
M (28.9 FT) SOUTHEAST OF A POLE WITH NO NUMBER, AND 2.3 M (7.5 FT)  
SOUTHWEST OF THE SOUTHWEST EDGE OF A PAVED SIDEWALK.

HVCTRL #2  
PROCTOR REBAR  
NORTH = 424834.8700  
EAST = 1498603.5000  
ELEV. = 469.1100

PROCTOR REBAR  
GENERAL LOCATION, PROCTOR, VT. TO REACH FROM THE INTERSECTION OF VT ROUTE 3 AND U.S.ROUTE 7  
AT THE SOUTH END OF PITTSFORD VILLAGE GO SOUTH ALONG VT ROUTE 3 FOR 3.5 MI (5.6 KM) TO THE  
INTERSECTION OF MAIN STREET RIGHT AND ORMSBEE AVENUE LEFT. TURN RIGHT AND GO WEST ALONG MAIN  
STREET FOR 0.15 MI (0.24 KM) TO THE INTERSECTION OF CHURCH STREET STRAIGHT AND MAIN STREET  
RIGHT. TURN RIGHT AND GO NORTH ALONG MAIN STREET FOR 0.1 MI (0.2 KM) TO THE VERMONT MARBLE  
EXHIBIT AND MUSEUM ON THE RIGHT. TURN INTO THE PARKING LOT AND GO TO THE NORTH END, PARK AND  
WALK NORTH ALONG THE RAIL FOR ABOUT 100 M (328.1 FT) TO SITE OF THE MARK ON THE RIGHT.

THE MARK IS A REBAR WITH CAP FLUSH WITH GROUND SURFACE. IT IS 3.5 M (11.5 FT) EAST OF AND  
LEVEL WITH THE EAST RAIL, 12.0 M (39.4 FT) SOUTHWEST OF NORTH END OF CHAIN LINK FENCE, 7.6 M  
(24.9 FT) EAST OF STEEL MARKER POST WITH RAILROAD WARNING SIGN, AND ABOUT 38 M (124.7 FT)  
NORTH ALONG RAIL FROM CROSSING NUMBER 851 308 S.

LOCAL CONTROL



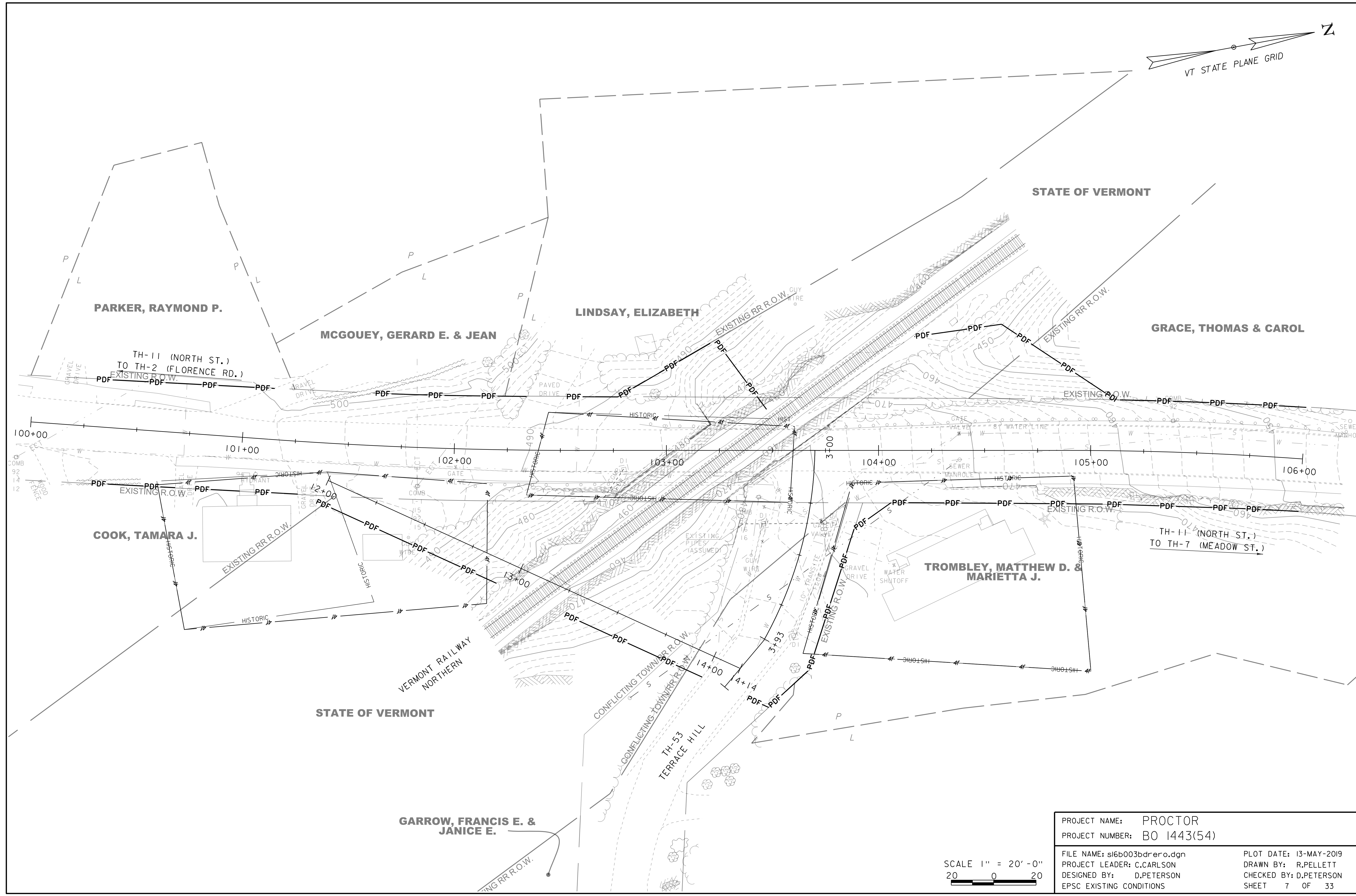
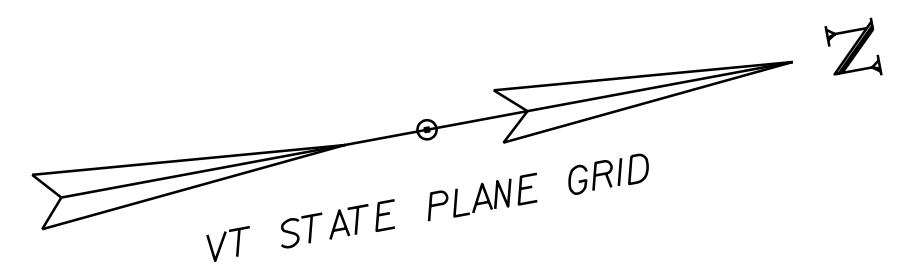
*TRAVERSE COMPLETED ON 2/21/17 BY R. GILMAN P.C. H. MCGOWAN & B. HERRING

TH 53				TH 11			
STATION		NORTHING	EASTING	STATION		NORTHING	EASTING
PC	3+00.00	425877.4800	1498109.7900	POB	100+00.00	425516.5400	1498029.2200
PI	3+47.89	425868.0000	1498156.7300	PC	101+12.23	425625.1100	1498057.6400
				PI	101+84.98	425695.4900	1498076.0600
VTRN		Radius:	190.00			Radius:	2000.00
		Delta:	28°17'32" Right			Delta:	4°10'00" Left
		Degree of Curvature (Arc):	30°09'20"			Degree of Curvature (Arc):	2°51'53"
		Length:	93.82			Length:	145.44
		Tangent:	47.89			Tangent:	72.75
		Chord:	92.87			Chord:	145.41
		Middle Ordinate:	5.76			Middle Ordinate:	1.32
		External:	5.94			External:	1.32
PT	3+93.82	425837.4000	1498193.5700	PT	102+57.67	425767.0300	1498089.3200
POE	4+22.00	425815.6369	1498211.4682	PC	104+90.19	425995.6500	1498131.6900

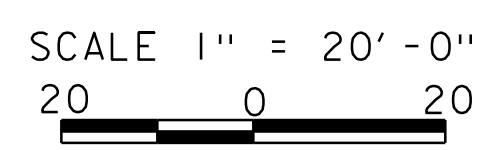
STATION		NORTHING	EASTING
PC	104+90.19	425995.6500	1498131.6900
PI	105+45.12	426049.6600	1498141.7000
		Radius:	1500.00
		Delta:	4°11'40" Right
		Degree of Curvature (Arc):	3°49'11.00"
		Length:	109.81
		Tangent:	54.93
		Chord:	109.79
		Middle Ordinate:	1.00
		External:	1.01
PT	106+00.00	426102.8000	1498155.6300

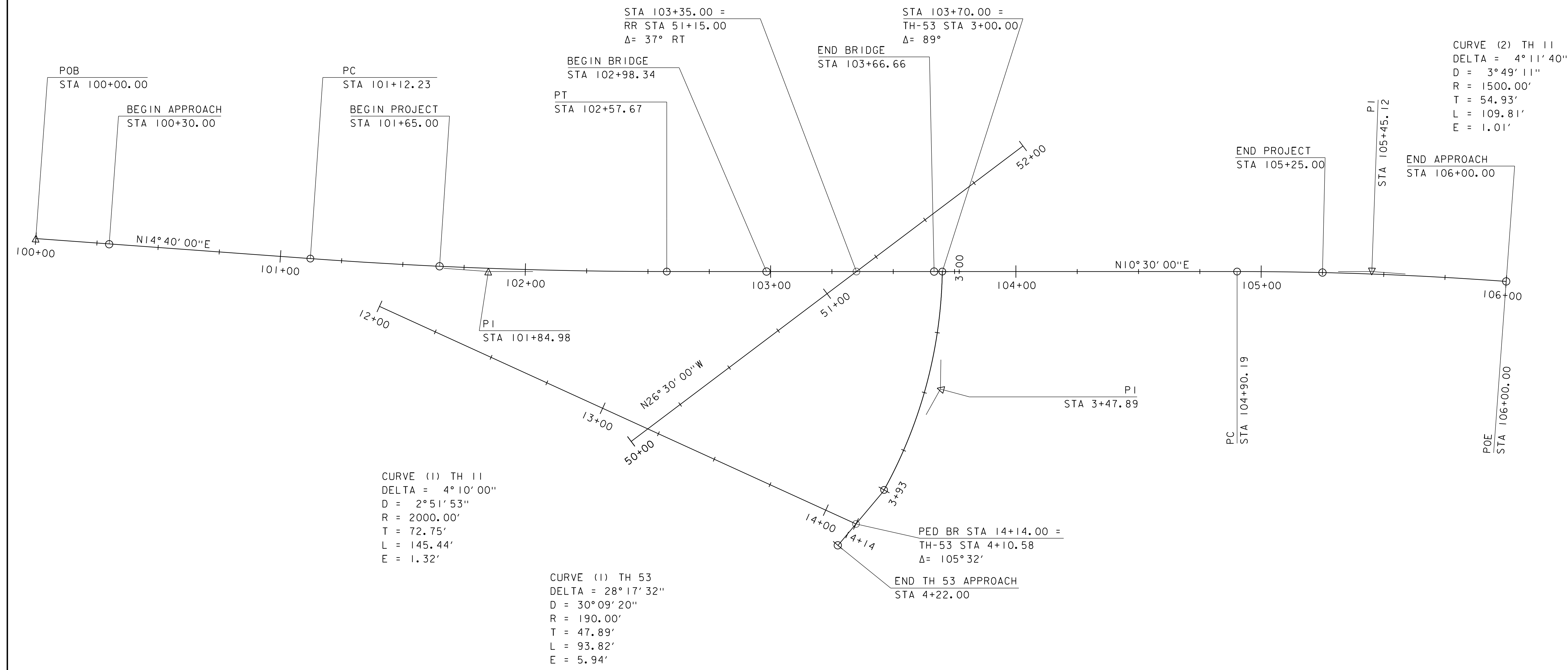
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	PROCTOR
PROJECT NUMBER:	BO 1443(54)
FILE NAME:	sl6b003tie.dgn
PROJECT LEADER:	C.CARLSON
DESIGNED BY:	G.HICHCOCK
TIE SHEET	
PLOT DATE:	13-MAY-2019
DRAWN BY:	G.HICHCOCK
CHECKED BY:	D.PETERSON
SHEET	6 OF 33



PROJECT NAME: PROCTOR	
PROJECT NUMBER: BO 1443(54)	
FILE NAME: sl6b003bdrero.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: R.PELLETT
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
EPSC EXISTING CONDITIONS	SHEET 7 OF 33





FILE NAME: sl6b003align.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: R.PELLETT
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
ALIGNMENT LAYOUT	SHEET 8 OF 33

HD STEEL BEAM GUARDRAIL, GALVANIZED:

STA 3+26.29 RT - 3+70.36 RT  
STA 101+94.79 RT - 102+55.48 RT  
STA 102+72.52 LT - 102+96.28 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED w/8FT POSTS:

STA 104+02.23 LT - 106+00.00 LT

BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION:

102+73.78 RT - 103+42.11 RT  
103+14.59 LT - 103+83.91 LT

SPECIAL PROVISION (BRICK PAVERS):

STA 101+01.00 RT - 101+05.00 RT

HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVE:

STA 102+21.90 LT - 102+49.70 LT

GRAVEL DRIVE:

STA 3+43.90 LT - 3+59.20 LT  
STA 100+61.80 RT - 11+79.80 RT  
STA 100+84.00 LT - 101+14.30 LT  
STA 101+26.00 RT - 101+36.30 RT  
STA 102+21.90 LT - 102+49.70 LT

GUARDRAIL APPROACH SECTION TO  
CONCRETE BRIDGE RAILING, TL3:

STA 102+55.48 RT - 102+73.78 RT  
STA 102+96.28 LT - 103+14.59 LT  
STA 103+83.91 LT - 104+02.23 LT

BEGIN BRIDGE  
STA 102+98.34

END BRIDGE  
STA 103+66.66

DETECTABLE WARNING SURFACE:

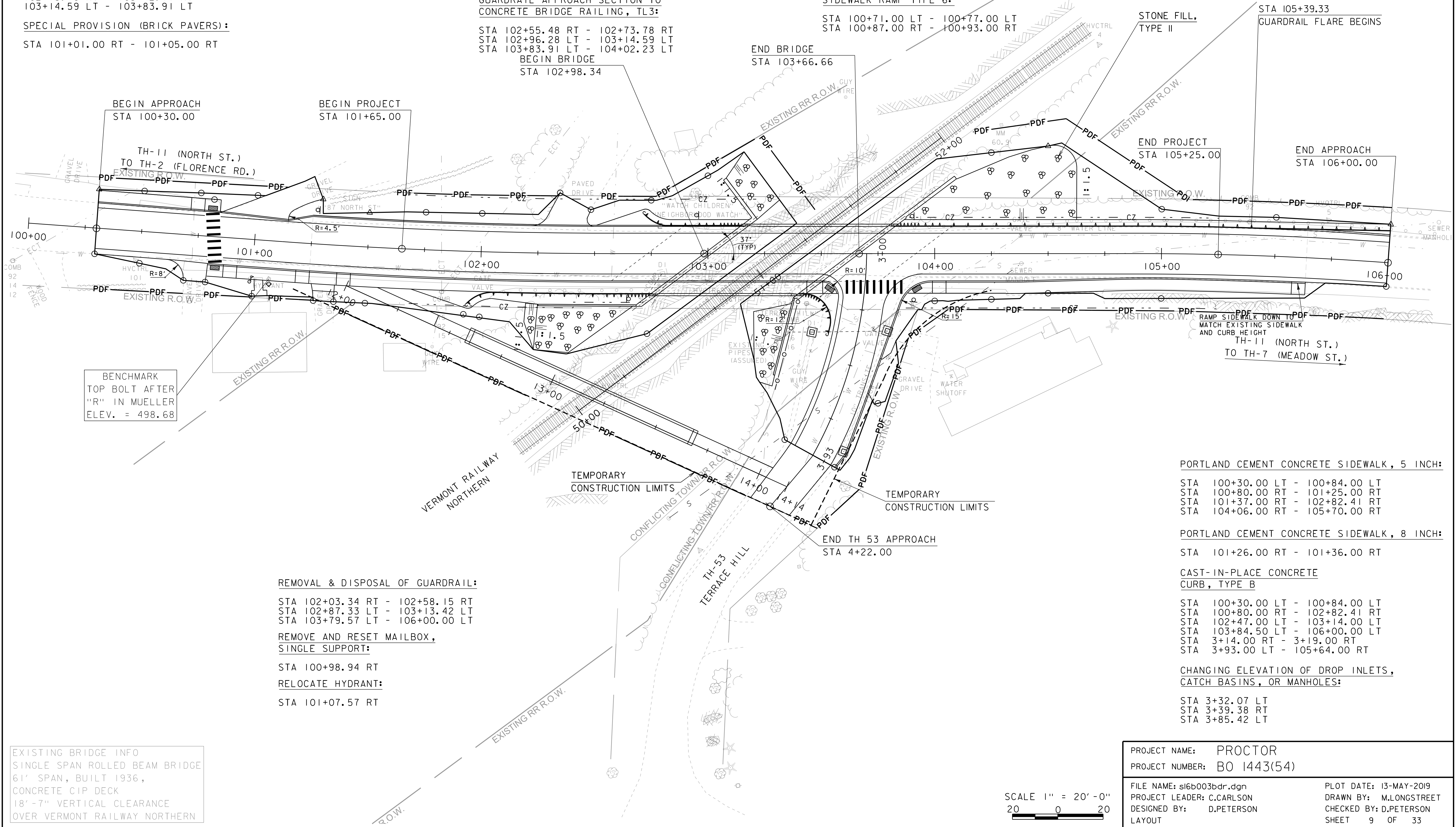
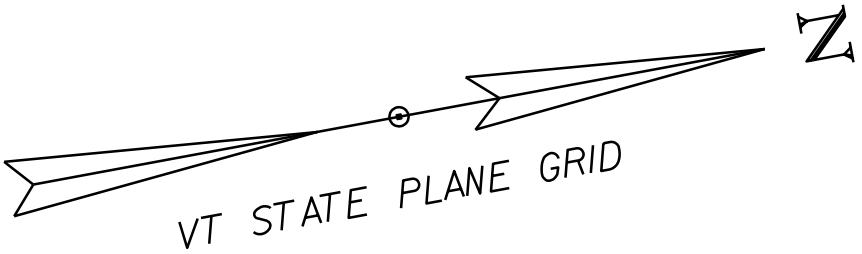
STA 100+80.00 LT  
STA 100+83.00 RT  
STA 103+54.00 RT  
STA 103+92.00 RT

SIDEWALK RAMP TYPE 1:

STA 103+43.50 RT - 103+50.50 RT  
STA 103+99.00 RT - 104+06.00 RT

SIDEWALK RAMP TYPE 6:

STA 100+71.00 LT - 100+77.00 LT  
STA 100+87.00 RT - 100+93.00 RT



REMOVAL & DISPOSAL OF GUARDRAIL:

STA 102+03.34 RT - 102+58.15 RT  
STA 102+87.33 LT - 103+13.42 LT  
STA 103+79.57 LT - 106+00.00 LT

REMOVE AND RESET MAILBOX,  
SINGLE SUPPORT:

STA 100+98.94 RT

RELOCATE HYDRANT:

STA 101+07.57 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH:

STA 100+30.00 LT - 100+84.00 LT  
STA 100+80.00 RT - 101+25.00 RT  
STA 101+37.00 RT - 102+82.41 RT  
STA 104+06.00 RT - 105+70.00 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH:

STA 101+26.00 RT - 101+36.00 RT

CAST-IN-PLACE CONCRETE  
CURB, TYPE B

STA 100+30.00 LT - 100+84.00 LT  
STA 100+80.00 RT - 102+82.41 RT  
STA 102+47.00 LT - 103+14.00 LT  
STA 103+84.50 LT - 106+00.00 LT  
STA 3+14.00 RT - 3+19.00 RT  
STA 3+93.00 LT - 105+64.00 RT

CHANGING ELEVATION OF DROP INLETS,  
CATCH BASINS, OR MANHOLES:

STA 3+32.07 LT  
STA 3+39.38 RT  
STA 3+85.42 LT

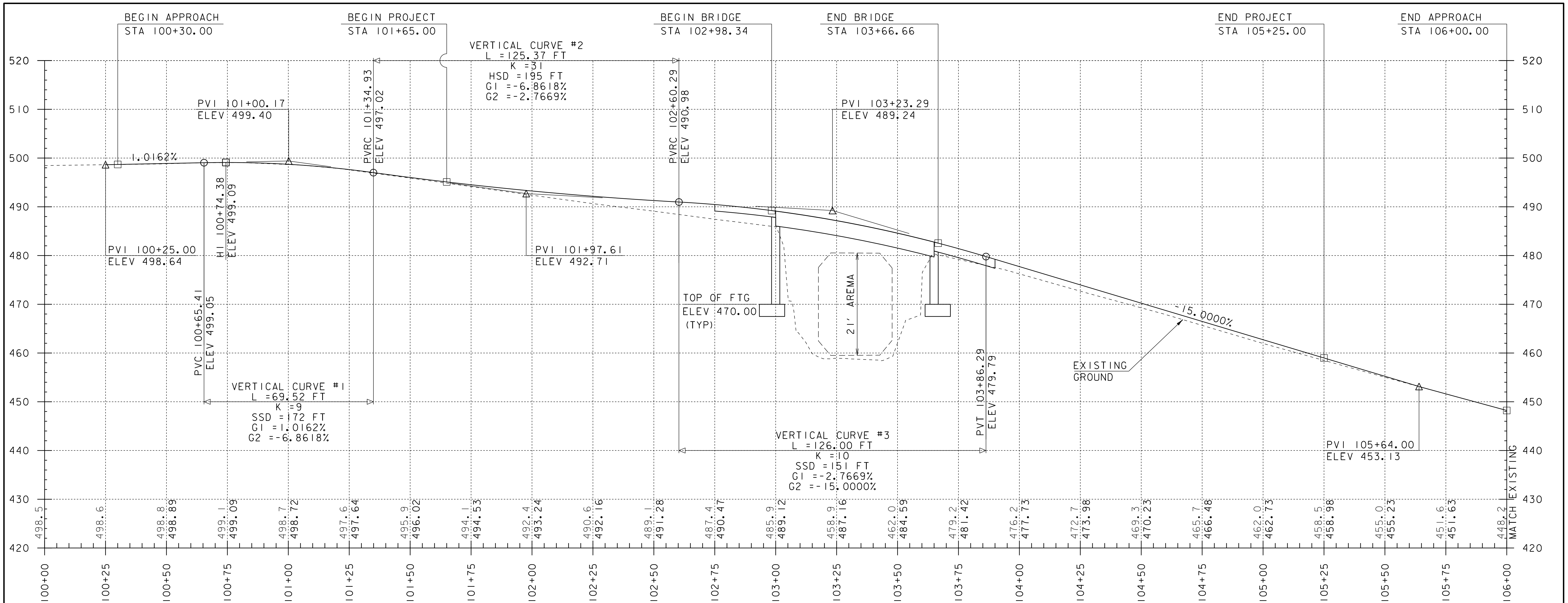
EXISTING BRIDGE INFO  
SINGLE SPAN ROLLED BEAM BRIDGE  
61' SPAN, BUILT 1936,  
CONCRETE CIP DECK  
18'-7" VERTICAL CLEARANCE  
OVER VERMONT RAILWAY NORTHERN

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003bdr.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
LAYOUT

PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 9 OF 33

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

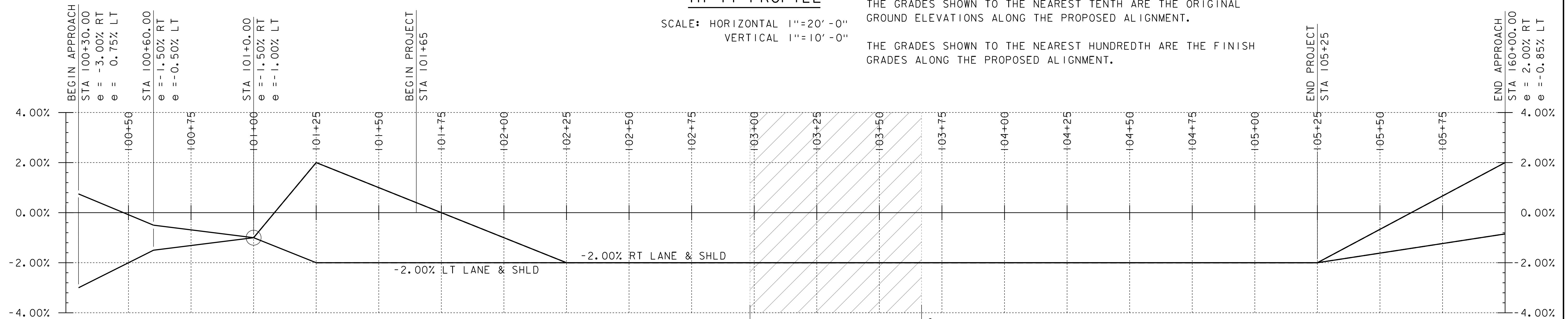


### TH II PROFILE

SCALE: HORIZONTAL 1"=20' -0"  
VERTICAL 1"=10' -0"

THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL  
GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT.

THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH  
GRADES ALONG THE PROPOSED ALIGNMENT.



### TH II BANKING DIAGRAM

SCALE: HORIZONTAL 1"=20' -0"  
VERTICAL N.T.S.

#### NOTE:

SHOULDER BANKING DOES NOT MATCH  
LANE IN ALL LOCATIONS. SEE CROSS  
SECTIONS FOR ADDITIONAL SHOULDER  
BANKING INFORMATION.

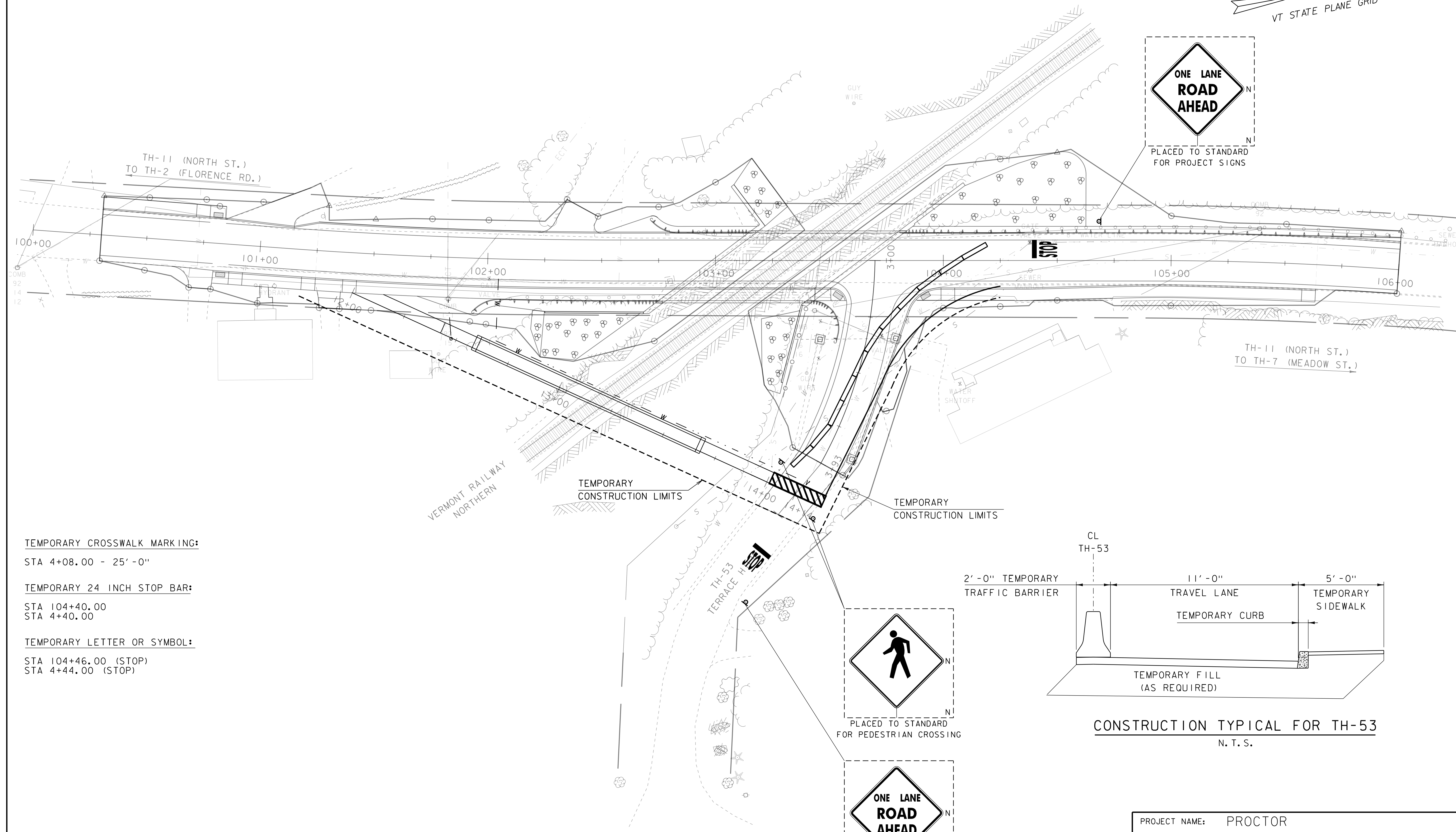
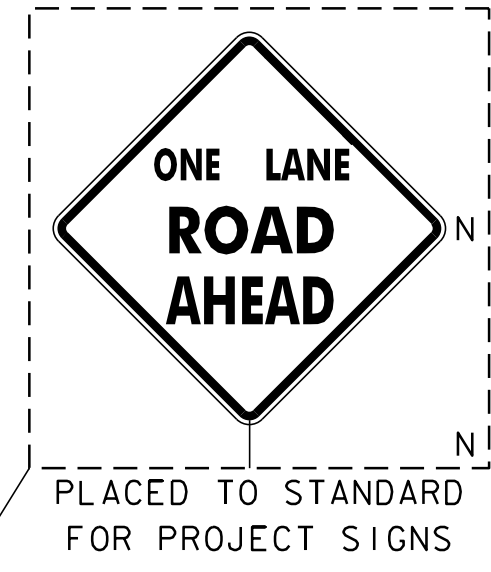
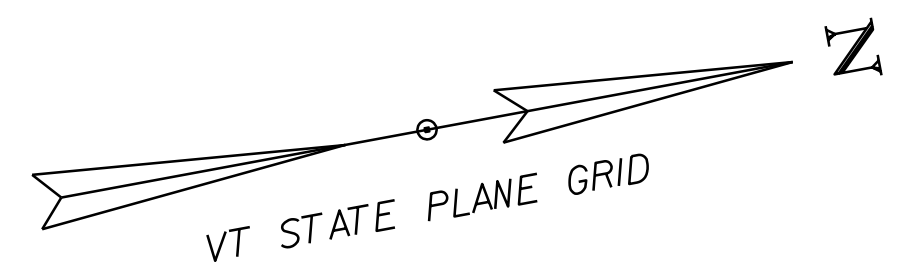
PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003pro.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
TH-II PROFILE & BANKING

PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 10 OF 33

TH 53 PROFILE

SCALE: HORIZONTAL 1"=20' - 0"  
VERTICAL 1"=10' - 0"



TEMPORARY CROSSWALK MARKING:

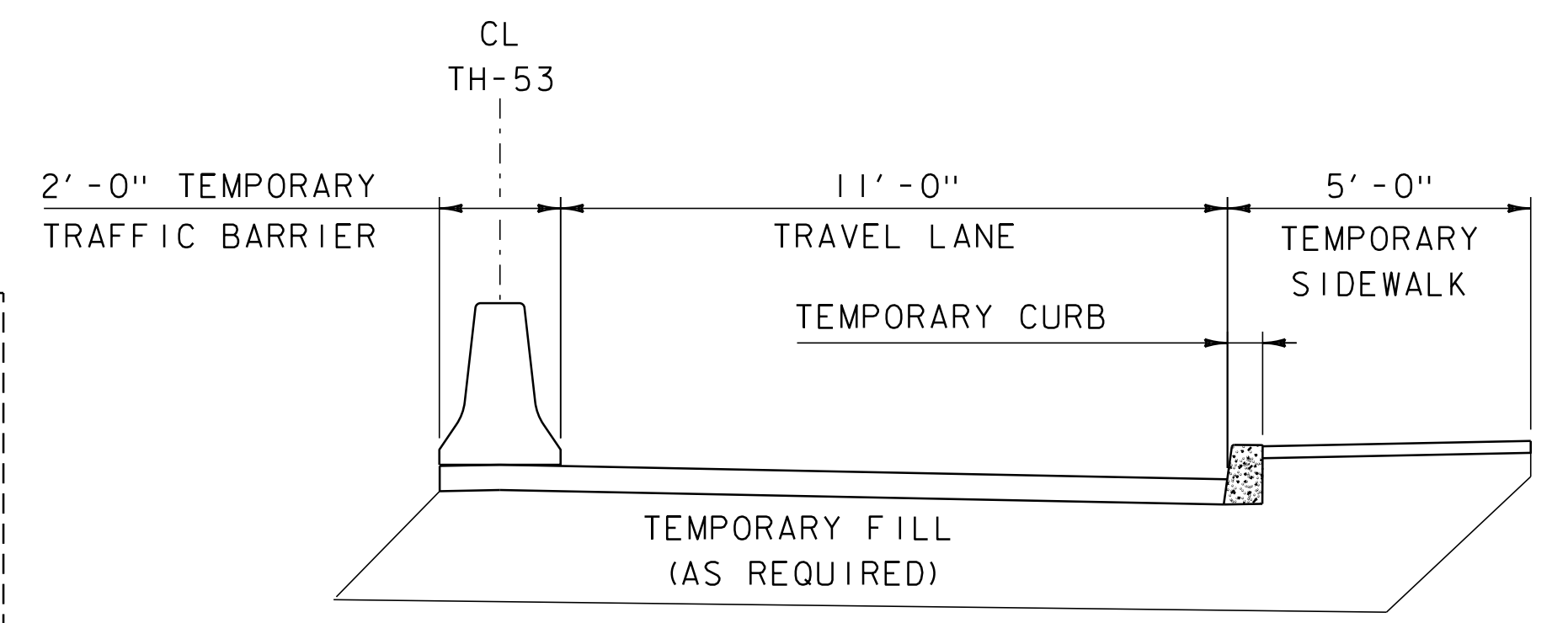
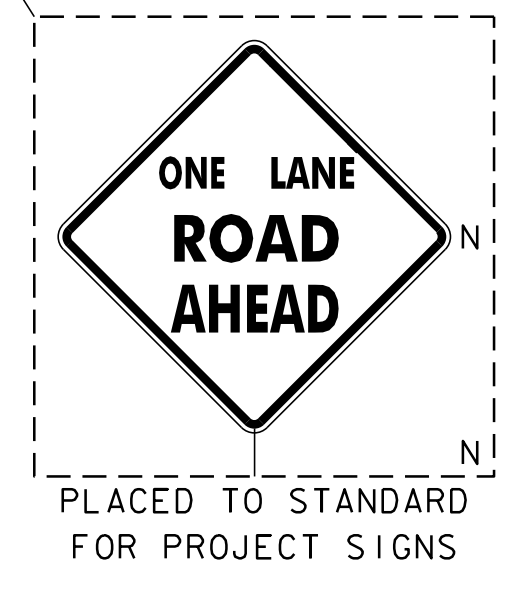
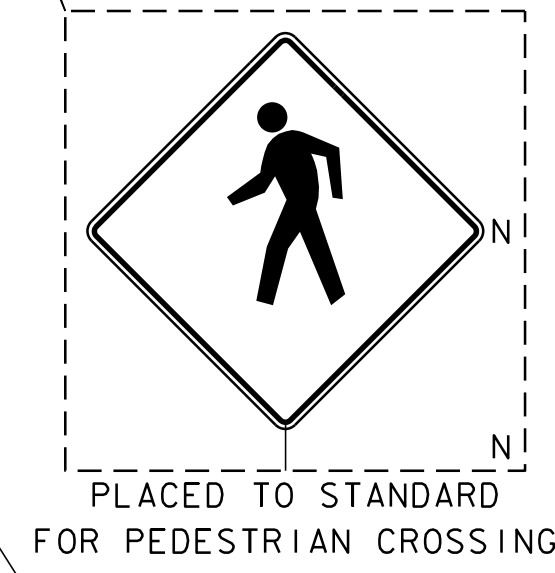
STA 4+08.00 - 25'-0"

TEMPORARY 24 INCH STOP BAR:

STA 104+40.00  
STA 4+40.00

TEMPORARY LETTER OR SYMBOL:

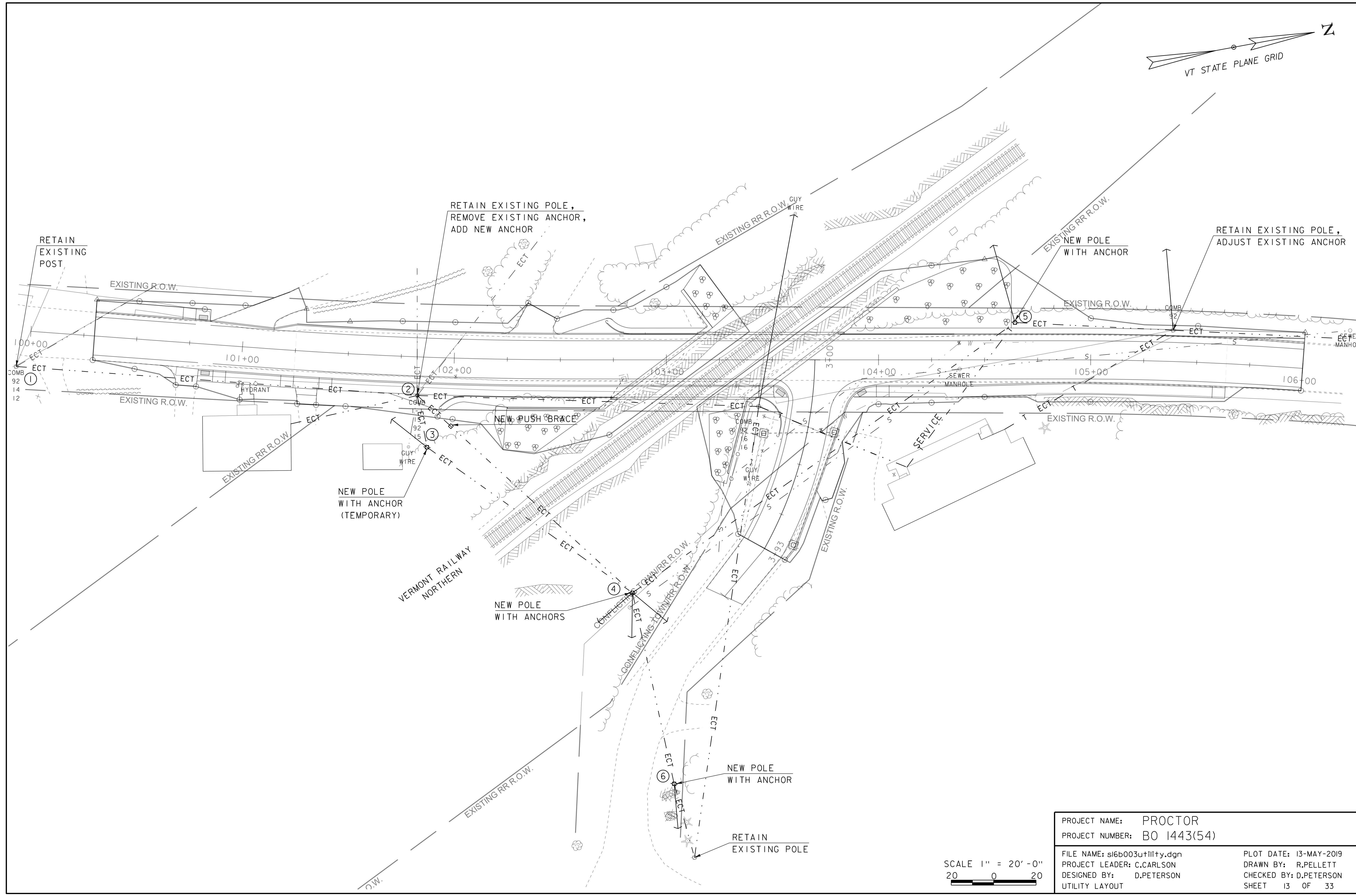
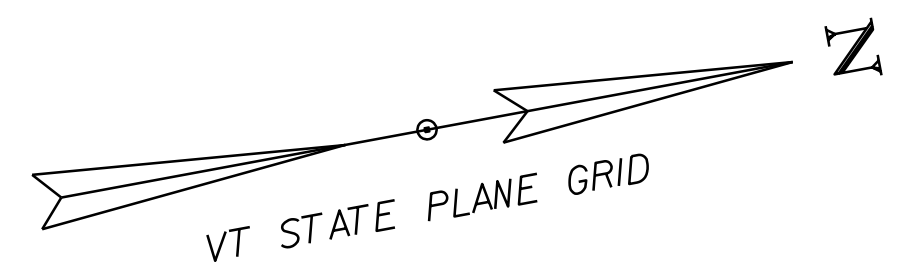
STA 104+46.00 (STOP)  
STA 4+44.00 (STOP)



CONSTRUCTION TYPICAL FOR TH-53  
N. T. S.

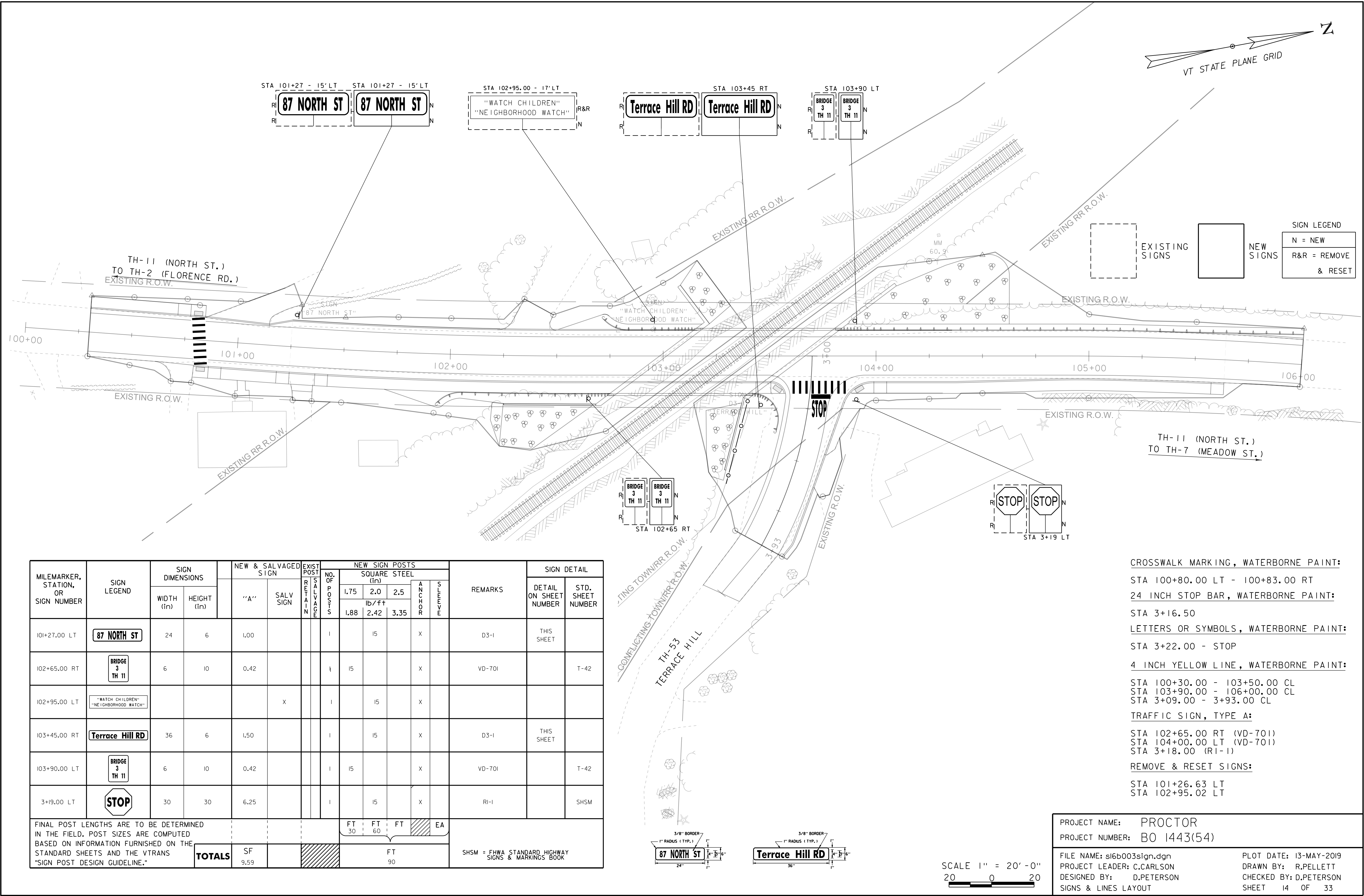
SCALE 1" = 20'-0"  
20 0 20

PROJECT NAME: PROCTOR	
PROJECT NUMBER: BO 1443(54)	
FILE NAME: sl6b003bdrpedbrg.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
PEDESTRIAN BRIDGE	SHEET 12 OF 33



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

PROJECT NAME: PROCTOR		PLOT DATE: 13-MAY-2019	
PROJECT NUMBER: B0 1443(54)		DRAWN BY: R.PELLETT	
FILE NAME: sl6b003utility.dgn		CHECKED BY: D.PETERSON	
PROJECT LEADER: C.CARLSON		SHEET 13 OF 33	
DESIGNED BY: D.PETERSON			
UTILITY LAYOUT			



MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGN		EXIST. POST	SALV. SIGN	SALV. SIGN	NO. OF POSTS	NEW SIGN POSTS					REMARKS	SIGN DETAIL	
										SQUARE STEEL (in)			ANCHOR	SLEEVE		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
		WIDTH (in)	HEIGHT (in)	1.75	2.0					2.5							
				1.88	lb/ft 2.42					3.35							
101+27.00 LT	87 NORTH ST	24	6	1.00				I		15		X		D3-I	THIS SHEET		
102+65.00 RT	BRIDGE 3 TH 11	6	10	0.42				I		15		X		VD-701		T-42	
102+95.00 LT	"WATCH CHILDREN" "NEIGHBORHOOD WATCH"				X			I		15		X					
103+45.00 RT	Terrace Hill RD	36	6	1.50				I		15		X		D3-I	THIS SHEET		
103+90.00 LT	BRIDGE 3 TH 11	6	10	0.42				I		15		X		VD-701		T-42	
3+19.00 LT	STOP	30	30	6.25				I		15		X		RI-I		SHSM	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."				SF				FT 30 FT 60 FT				EA	SHSM = FHWA STANDARD HIGHWAY SIGNS & MARKINGS BOOK				
								FT 90									
TOTALS				9.59													

CROSSWALK MARKING, WATERBORNE PAINT:

STA 100+80.00 LT - 100+83.00 RT

24 INCH STOP BAR, WATERBORNE PAINT:

STA 3+16.50

LETTERS OR SYMBOLS, WATERBORNE PAINT:

STA 3+22.00 - STOP

4 INCH YELLOW LINE, WATERBORNE PAINT:

STA 100+30.00 - 103+50.00 CL

STA 103+90.00 - 106+00.00 CL

STA 3+09.00 - 3+93.00 CL

TRAFFIC SIGN, TYPE A:

STA 102+65.00 RT (VD-701)

STA 104+00.00 LT (VD-701)

STA 3+18.00 (RI-1)

REMOVE & RESET SIGNS:

STA 101+26.63 LT

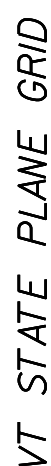
STA 102+95.02 LT

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003sign.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
SIGNS & LINES LAYOUT

PLOT DATE: 13-MAY-2019  
DRAWN BY: R.PELLETT  
CHECKED BY: D.PETERSON  
SHEET 14 OF 33

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



TEMPORARY  
TRAFFIC  
LIGHT

## SIGNALS FOR UNDERPASS



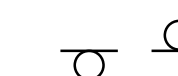
## DETOUR ROUTE SIGNS



DETOUR  
NORTH

**DETOUR**  
SOUTH

DETOUR  
SOUTH



PCMS  
MESSAGES FOR PORTABLE  
CHANGEABLE  
MESSAGE SIGNS (PCMS)

MESSAGE 1	MESSAGE 2
<b>NORTH ST.</b>	<b>**DATE**</b>
<b>ROAD</b>	<b>THRU</b>
<b>CLOSED</b>	<b>**DATE**</b>

SEE CONTRACT DOCUMENTS FOR  
CLOSURE DATES



BC500



BC 100C

SIGN PLACEMENT NOTES:

- 1) ALL DETOUR SIGNS LEADING UP TO A DETOUR INTERSECTION ARE SPACED AT A 500FT INTERVAL.
- 2) DETOUR SIGNS AT THE INTERSECTION ARE PLACED WITHIN 50FT OF INTERSECTION.
- 3) BRIDGE CLOSED SIGNS ARE PLACED 500FT BEFORE THE DETOUR AHEAD SIGN.

PROJECT NAME:	PROCTOR
PROJECT NUMBER:	B0 1443(54)

FILE NAME: sl6b003+raf.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
DETOUR SHEET

PLOT DATE: 13-MAY-2019  
DRAWN BY: R.PELLETT  
CHECKED BY: D.PETERSON  
SHEET 15 OF 33



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

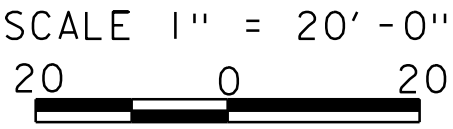
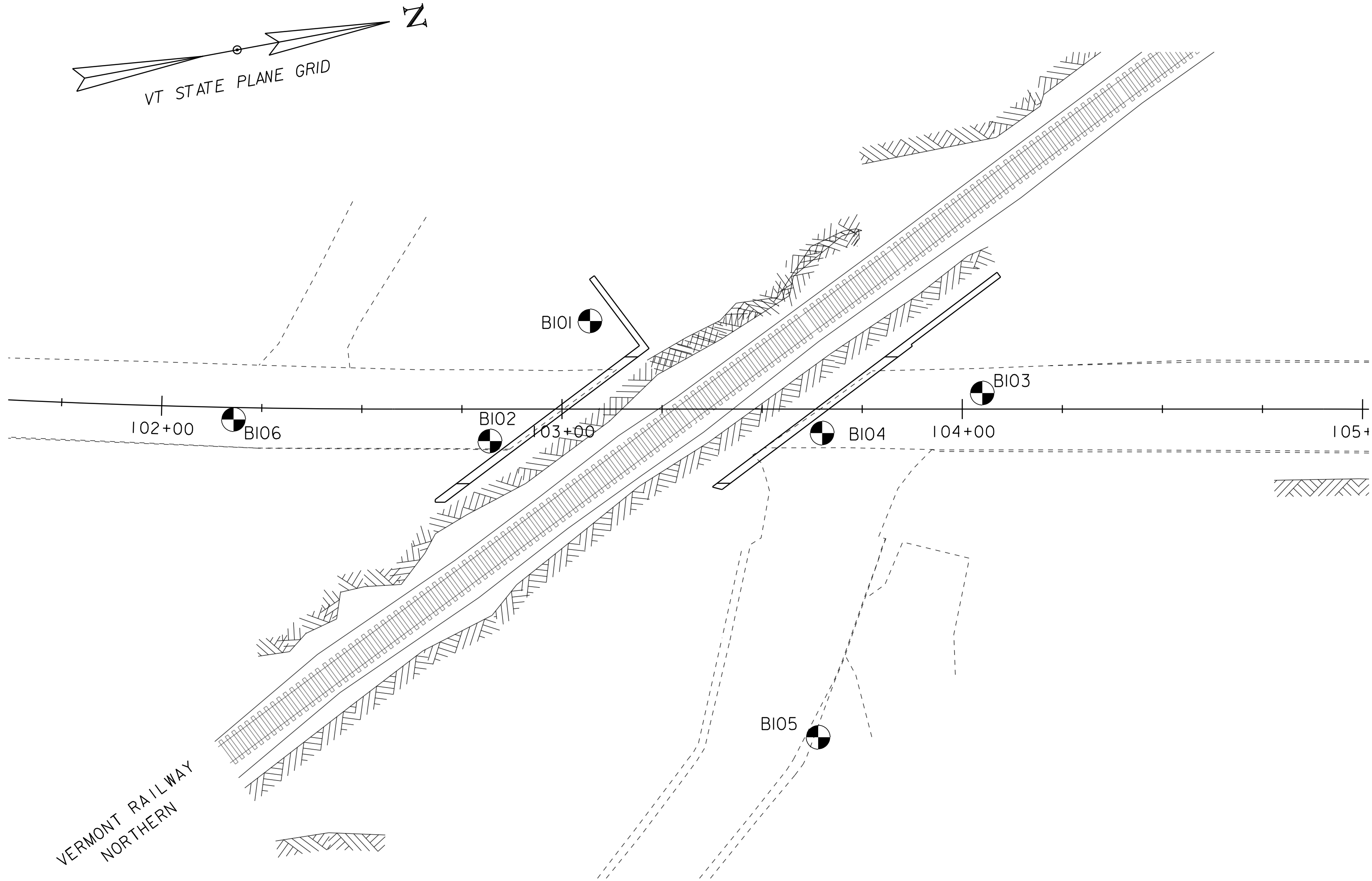
COMMONLY USED SYMBOLS

▼	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
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	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
RQD	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 CHART

Offset Point	Baseline Station	Offset	----- Offset Point -----		Elevation	TOP OF LEDGE
			Northing	Easting		
B101	103+07	-22	425817.30	1498077.60	485	465.2
B102	102+82	8	425789.49	1498101.60	487	467.2
B103	104+05	-4	425912.60	1498112.20	475	463.9
B104	106+65	6	425871.50	1498114.80	480	467.4
B105	103+64	82	425856.60	1498189.30	484	474.2
B106	102+18	3	425727.50	1498084.60	491	464.6



GENERAL NOTES

- The subsurface explorations shown herein were made between 07/16/18 and 07/18/18 by the GZA.
- 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.

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 > 0.0787" (#10 sieve).
- SAND** - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).
- SILT** - Soil < 0.0029" (#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.

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003bor.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
BORING INFORMATION SHEET

PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 16 OF 33

<span></span>  <b>VTrans</b>      <span></span>  Working to Get You There    <span></span>  Vermont Agency of Transportation      STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS &amp; RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: 8-101						
		TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 1 Pin No.: 16b003 Checked By: J. Baron						
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA) Date Started: 7/16/18 Date Finished: 7/16/18 VTSPG NAD83: N 425817.30 ft E 1498077.60 ft Station: 103+07.00 Offset: 22 LT Ground Elevation: 485.0 ft		Casing Sampler Type: WASH BORE SS I.D.: 4 in 1.38 in Hammer Wt: 300 lb. 140 lb. Hammer Fall: 24 in. 30 in. Hammer/Rod Type: Auto/AWJ Rig: MOBILE B53 ATV CE = 1.3		Groundwater Observations Date Depth (ft) Notes 07/16/18 16.0 Slab. time = 30 min.						
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Visual Description, (Modified Burmister), S-1 (0-2'): 2" Topsoil. Medium dense, light brown, fine to medium SAND, some Gravel, trace Silt (A-1-b). Dry, Rec. = 1.0 ft, GRAVELLY SAND				4-4-7-8 (11)				
		Visual Description, (Modified Burmister), S-2 (2-4'): Very dense, light brown, fine to medium SAND and Gravel, trace Silt (A-1-b). Dry, Rec. = 0.2 ft, GRAVELLY SAND				11-21-35-19 (56)				
		S-3 (4-6'): No recovery, Rec. = 0.0 ft, 4.0 ft - 6.0 ft, GRAVELLY SAND				9-11-14-10 (25)				
		Visual Description, (Modified Burmister), S-4 (6-8'): Medium dense, fine to medium SAND and Gravel, trace Silt (A-1-b). Wet, Rec. = 0.1 ft, GRAVELLY SAND				7-10-2-6 (12)				
10		Visual Description, (Modified Burmister), S-5 (8-10'): Loose, light brown, fine to medium SAND and Silt, trace Gravel (A-4). Wet, Rec. = 1.0 ft, SILTY SAND				7-4-4-7 (8)				
		Visual Description, (Modified Burmister), S-6 (10-12'): Loose, light brown, fine to medium SAND and Silt, trace Gravel (A-4). Wet, Rec. = 1.1 ft, SILTY SAND				5-4-5-8 (9)				
15		S-7 (12-14'): No recovery, Rec. = 0.0 ft, 12.0 ft - 14.0 ft, SILTY SAND				6-3-7-5 (10)				
		Visual Description, (Modified Burmister), S-8 (14-16'): Medium dense, light brown, fine to medium SAND and Silt, little Gravel (A-4). Wet, Rec. = 0.8 ft, SILTY SAND				3-4-7-9 (11)				
		Visual Description, (Modified Burmister), S-9 (16-18'): Dense, light brown, fine to medium SAND and Silt, trace Gravel (A-4). Wet, Rec. = 1.4 ft, GLACIAL TILL				6-5-36-13 (41)				
		Visual Description, (Modified Burmister), S-10 (18-19.8'): Medium dense, light brown, fine to medium SAND, some Silt, little Gravel (A-4). Wet, Rec. = 0.9 ft, GLACIAL TILL				24-12-11-50/3" (23)				
20		19.8 ft - 20.0 ft, BEDROCK	C-1	97 (73)	2.5					
		20.0 ft - 25.0 ft, C1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are moderate dipping to low angle, moderate to closely spaced, rough, undulating to planar, fresh, open to partially open. -WINOOSKI DOLOSTONE-				3				
						4				
						3				
25		25.0 ft - 30.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are moderately dipping to low angle, moderate to closely, rough, undulating to planar, fresh, partially open to tight. -WINOOSKI DOLOSTONE-	C-2	100 (68)	5					
						4				
						2				
						2				
30		Hole stopped @ 30.0 ft								
35		Remarks: 1. Rock in tip of split spoon for S-2. 2. Rock in tip of split spoon for S-4. 3. Split spoon refusal at 19.8 feet. Advanced roller bit to 20.0 feet and set up to core. 4. Bedrock testing completed on C-1 (20.1-20.5) sample, UCS = 4,064 psi, unit weight = 175.2 pcf.								
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.								

2010 COPY 04.0190385.09 VTRANS BO 1443(54).GPJ VERMONT AOT.GDT 8/28/18

APPROXIMATE BEDROCK  
ABUT #1  
E.L. 468.00

<span></span>  <b>VTrans</b>      <span></span>  Working to Get You There    <span></span>  Vermont Agency of Transportation      STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS &amp; RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102						
		TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 1 Pin No.: 16b003 Checked By: J. Baron						
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA) Date Started: 7/17/18 Date Finished: 7/17/18 VTSPG NAD83: N 432670.72 ft E 1508013.92 ft Station: 102+82.00 Offset: 8 RT Ground Elevation: 487.0 ft		Casing Sampler Type: WASH BORE SS I.D.: 4 in 1.38 in Hammer Wt: 300 lb. 140 lb. Hammer Fall: 24 in. 30 in. Hammer/Rod Type: Auto/AWJ Rig: MOBILE B53 ATV CE = 1.3		Groundwater Observations Date Depth (ft) Notes Not measured.						
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		0.0 ft - 0.5 ft, ASPHALT								
		Visual Description, (Modified Burmister), S-1 (0.5-2.5'): Dense, brown, fine to coarse SAND, some Gravel, trace Silt (A-1-b). Moist, Rec. = 0.8 ft, GRAVELLY SAND				12-18-16-14 (34)				
		Visual Description, (Modified Burmister), S-2 (2.5-4.5'): Medium dense, brown, fine to medium SAND, some Gravel, little Silt (A-2-4). Wet, Rec. = 0.5 ft, GRAVELLY SAND				9-13-11-14 (24)				
		Visual Description, (Modified Burmister), S-3 (4.5-6.5'): Medium dense, brown, fine to coarse SAND, little Gravel, little Silt (A-2-4). Wet, Rec. = 0.2 ft, GRAVELLY SAND				13-10-11-8 (21)				
10		Visual Description, (Modified Burmister), S-4 (6.5-8.5'): Dense, brown, fine to coarse SAND, little Gravel, little Silt (A-2-4). Wet, Rec. = 0.3 ft, GRAVELLY SAND				12-14-20-24 (34)				
		8.5 ft - 9.0 ft, GRAVELLY SAND				6-6-6-10 (12)				
15		Visual Description, (Modified Burmister), S-5 (9-11'): Medium dense, gray, white and red GRAVEL (A-1-a). Wet, Rec. = 0.3 ft, GRAVELLY SAND				4-4-5-5 (9)				
		Visual Description, (Modified Burmister), S-6 (11-13'): Loose, brown, fine to medium SAND, little Gravel, little Silt (A-2-4). Wet, Rec. = 0.2 ft, GRAVELLY SAND				7-6-6-10 (12)				
		Visual Description, (Modified Burmister), S-7 (13-15'): Medium dense, light brown, fine to medium SAND, little Silt, trace Gravel (A-2-4). Wet, Rec. = 0.7 ft, GRAVELLY SAND				10-13-25-32 (38)	8.7	23.8	42.4	33.8
		Visual Description, (Modified Burmister), S-8 (15-17'): Dense, light brown, fine to medium SAND, some Gravel, some Silt (A-2-4). Wet, Rec. = 1.3 ft, GLACIAL TILL				22-30-48-51 (78)				
20		Visual Description, (Modified Burmister), S-9 (17-19'): Very dense, light brown, fine to medium SAND, some Gravel, little Silt (A-2-4). Wet, Rec. = 1.7 ft, GLACIAL TILL	C-1	100 (58)	2.5					
		19.8 ft - 21.0 ft, BEDROCK				59-60/30" (R)				
		Visual Description, (Modified Burmister), S-10 (19-19.8'): Very dense, light brown, fine to medium SAND, little Silt, little Gravel (A-2-4). Wet, Rec. = 0.7 ft, GLACIAL TILL				2				
		21.0 ft - 26.0 ft, C1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to moderately dipping, close to moderately spaced, rough, undulating and planar, fresh, partially open to tight. -WINOOSKI DOLOSTONE-				2				
25		26.0 ft - 31.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to moderately dipping, very close to moderately spaced, undulating and planar and stepped, fresh, partially open to tight. -WINOOSKI DOLOSTONE-	C-2	100 (73)	2					
						2				
						2				
						2				
30		Hole stopped @ 31.0 ft								
35		Remarks: 1. Rock/gravel in tip of split spoon for S-4. 2. Split spoon refusal at 9.2 feet on probable bridge block wall. Relocated boring approximately 6 feet away from bridge and advanced to 9 feet to continue sampling. 3. Rock in tip of split spoon for S-6. 4. Split spoon refusal at 19.8 feet. Advanced roller bit to 21.0 feet and set up to core. 5. Bedrock testing completed on C-2 (26.4-26.8) sample, UCS = 3,228 psi, unit weight = 175.1 pcf.								
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.								

2010 COPY 04.0190385.09 VTRANS BO 1443(54).GPJ VERMONT AOT.GDT 8/28/18

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003bor.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
BORING LOGS I

PLOT DATE: 13-MAY-2019  
DRAWN BY: D.PETERSON  
CHECKED BY: P.FLAHERTY  
SHEET 17 OF 33

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-103					
				TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 1 Pin No.: 16b003 Checked By: J. Baron					
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA)				Casing		Sampler		Groundwater Observations			
Date Started: 7/17/18 Date Finished: 7/17/18				Type: WASH BORE		SS		Date			
VTSPG NAD83: N 432794.61 ft E 1508027.74 ft				I.D.: 4 in		1.38 in		Depth (ft)			
Station: 104+05.00 Offset: 4 LT				Hammer Wt: 300 lb.		140 lb.		Notes			
Ground Elevation: 475.0 ft				Hammer Fall: 24 in.		30 in.		Not measured.			
				Hammer/Rod Type: Auto/AWJ							
				Rig: MOBILE B53 ATV		CE = 1.3					
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		0.0 ft - 0.5 ft, ASPHALT					10-16-15-13 (31)	5.2	37.5	48.2	14.3
		Visual Description, (Modified Burmister), S-1 (0.5-2.5'): Dense, light brown, fine to coarse SAND, little Gravel, trace Silt (A-1-b). Moist, Rec. = 0.6 ft, FILL									
		Visual Description, (Modified Burmister), S-2 (2.5-4.5'): Medium dense, light brown, fine to coarse SAND and Gravel, little Silt (A-1-b). Moist, Rec. = 0.7 ft, FILL									
		Visual Description, (Modified Burmister), S-3 (4.5-6.5'): Medium dense, brown, fine to medium SAND, little Silt, trace Gravel (A-2-4). Moist, Rec. = 0.5 ft, GRAVELLY SAND									
		Visual Description, (Modified Burmister), S-4 (6.5-8.5'): Medium dense, brown, fine to medium SAND, little Silt, trace Gravel (A-2-4). Moist, Rec. = 0.6 ft, GRAVELLY SAND									
10		8.5 ft - 9.0 ft, GRAVELLY SAND					14-10-8-21 (18)				
		Visual Description, (Modified Burmister), S-5 (9-11'): Medium dense, light brown, fine SAND, some Silt, trace Gravel (A-4). Wet, Rec. = 0.7 ft, SILTY SAND									
		Visual Description, S-6 (11-11.1'): No recovery, Rec. = 0.0 ft, SILTY SAND									
15		11.1 ft - 12.0 ft, BEDROCK		C-1	96 (45)	3					
		12.0 ft - 17.0 ft, C1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to moderately dipping, very close to moderately spaced, rough, planar and undulating, fresh, partially open to open.									
		-WINOOSKI DOLOSTONE-									
20		17.0 ft - 22.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to moderately dipping, very close to moderately spaced, rough, planar and undulating, fresh, tight to partially open.		C-2	97 (85)	1					
		-WINOOSKI DOLOSTONE-									
		Hole stopped @ 22.0 ft									
25		Remarks: 1. Split spoon refusal 11.1 feet. Advanced roller bit to 12.0 feet and set up to core.									
30											
35											
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.											

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APPROXIMATE BEDROCK  
ABUT #2  
EL. 468.00

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-104					
				TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 1 Pin No.: 16b003 Checked By: J. Baron					
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA)				Casing		Sampler		Groundwater Observations			
Date Started: 7/17/18 Date Finished: 7/17/18				Type: WASH BORE		SS		Date			
VTSPG NAD83: N 432752.81 ft E 1508030.42 ft				I.D.: 4 in		1.38 in		Depth (ft)			
Station: 103+65.00 Offset: 6 RT				Hammer Wt: 300 lb.		140 lb.		Notes			
Ground Elevation: 480.0 ft				Hammer Fall: 24 in.		30 in.		07/17/19 9.0 Stab. time = 10 min.			
				Hammer/Rod Type: Auto/AWJ							
				Rig: MOBILE B53 ATV		CE = 1.3					
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		0.0 ft - 0.4 ft, ASPHALT					17-21-10-8 (31)				
		Visual Description, (Modified Burmister), S-1 (0.4-2.4'): Dense, light brown, fine to medium SAND, little Gravel, trace Silt (A-1-b). Moist, Rec. = 0.9 ft, GRAVELLY SAND									
		Visual Description, (Modified Burmister), S-2 (2.4-4.4'): Medium dense, brown, fine to medium SAND, some Gravel, little Silt (A-1-b). Wet, Rec. = 0.2 ft, GRAVELLY SAND									
		Visual Description, (Modified Burmister), S-3 (4.4-6.4'): Medium dense, brown, fine to coarse SAND, little Silt, trace Gravel (A-1-b). Wet, Rec. = 0.2 ft, GRAVELLY SAND									
		Visual Description, (Modified Burmister), S-4 (6.4-8.4'): Medium dense, light brown, fine to coarse SAND and Gravel, little Silt (A-1-b). Wet, Rec. = 0.9 ft, GRAVELLY SAND									
10		8.4 ft - 9.0 ft, GRAVELLY SAND					11-6-3-4 (9)				
		Visual Description, (Modified Burmister), S-5 (9-11'): Loose, brown, fine to coarse SAND, little Silt, trace Gravel (A-1-b). Wet, Rec. = 0.5 ft, GRAVELLY SAND									
		Visual Description, (Modified Burmister), S-6 (11-11.1'): Medium dense, light brown, fine to coarse SAND, little Gravel, trace Silt (A-1-b). Wet, Rec. = 0.8 ft, GRAVELLY SAND									
15		12.6 ft - 13.0 ft, BEDROCK		C-1	97 (78)	2.5					
		13.0 ft - 18.0 ft, C-1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to high angle, close to moderately spaced, rough, planar and undulating, fresh, partially open to tight.									
		-WINOOSKI DOLOSTONE-									
20		18.0 ft - 23.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low to moderately dipping, very close to moderately spaced, rough, planar and undulating, fresh, partially open to tight.		C-2	92 (33)	2.5					
		-WINOOSKI DOLOSTONE-									
		Hole stopped @ 23.0 ft									
25		Remarks: 1. Split spoon refusal at 12.6 feet. Advanced roller bit to 13.0 feet and set up to core. 2. Bedrock testing completed on C-2 (18.6-19.0) sample, UCS = 14,397 psi, unit weight = 175.5 pcf.									
30											
35											
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.											

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PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003bor.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
BORING LOGS 2

PLOT DATE: 13-MAY-2019  
DRAWN BY: D.PETERSON  
CHECKED BY: P.FLAHERTY  
SHEET 18 OF 33

<span></span>  <b>VTrans</b>      <span></span>  Working to Get You There    Vermont Agency of Transportation      STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS &amp; RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-105								
		TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 1 Pin No.: 16b003 Checked By: J. Baron								
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA) Date Started: 7/16/18 Date Finished: 7/16/18 VTSPG NAD83: N 432736.06 ft E 1508105.17 ft Station: 103+64.00 Offset: 82 RT Ground Elevation: 484.0 ft		Casing Sampler Type: WASH BORE SS I.D.: 4 in 1.38 in Hammer Wt: 300 lb. 140 lb. Hammer Fall: 24 in. 30 in. Hammer/Rod Type: Auto/AWJ Rig: MOBILE B53 ATV CE = 1.3		Groundwater Observations Date Depth Notes 07/16/18 8.0 Stab. time = 30 min.								
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %		
5		0.0 ft - 0.6 ft, ASPHALT				6-6-8-5 (14)						
		Visual Description, (Modified Burmister), S-1 (0.6-2.6'): Medium dense, light brown, fine to coarse SAND, little Gravel, trace Silt (A-1-b). Moist, Rec. = 0.5 ft, GRAVELLY SAND										
		Visual Description, (Modified Burmister), S-2 (2.6-4.6'): Medium dense, light brown, fine SAND, little Silt (A-1-b). Moist, Rec. = 1.1 ft, GRAVELLY SAND				4-5-5-8 (10)						
		Visual Description, (Modified Burmister), S-3 (4.6-6.6'): Medium dense, light brown, fine to medium SAND, little Silt, trace Gravel (A-1-b). Moist, Rec. = 1.8 ft, GRAVELLY SAND				7-8-12-23 (20)						
		6.6 ft - 7.0 ft, GRAVELLY SAND				73/4" (R)						
		S-4 (7-7.3'): No recovery, Rec. = 0.0 ft, 7.0 ft - 7.3 ft, GRAVELLY SAND				26-63/3" (R)						
		7.3 ft - 9.0 ft, GRAVELLY SAND	C-1	100 (80)	2.5	2						
		Visual Description, (Modified Burmister), S-5 (9-9.8'): Very dense, light brown, fine to medium SAND and Gravel, trace Silt (A-1-b). Moist, Rec. = 0.2 ft, GRAVELLY SAND				1.5						
		9.8 ft - 10.0 ft, BEDROCK				1.5						
		10.0 ft - 15.0 ft, C1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are moderately dipping to low angle, moderate to closely spaced, rough, planar and undulating, fresh, partially open to tight. -WINOOSKI DOLOSTONE-	C-2	98 (54)	2	1.5						
15		15.0 ft - 20.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are high to low angle, very close to moderately spaced, rough, undulating and planar, fresh, partially open to open. -WINOOSKI DOLOSTONE-				1.5						
		Hole stopped @ 20.0 ft										
		Remarks: 1. Split spoon refusal at 7.3 feet. Advanced roller bit through 1.5-foot thick boulder. 2. Split spoon refusal at 9.8 feet. Advanced roller bit to 10 feet and set up to core. 3. Bedrock testing completed on C-1 (12.3-12.7) sample, UCS = 1,713 psi, unit weight = 172.8 pcf.										
20												
25												
30												
35												

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<span></span>  <b>VTrans</b>      <span></span>  Working to Get You There    Vermont Agency of Transportation      STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS &amp; RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-106								
		TH11 Bridge No. 3 over VT Railway Proctor BO 1443(54) Proctor, Vermont		Page No.: 1 of 2 Pin No.: 16b003 Checked By: J. Baron								
Boring Crew: Matt Soucy, (NEBC), J. Szmyt (GZA) Date Started: 7/18/18 Date Finished: 7/18/18 VTSPG NAD83: N 432609.21 ft E 1508000.89 ft Station: 102+18.00 Offset: 3 RT Ground Elevation: 491.0 ft		Casing Sampler Type: WASH BORE SS I.D.: 4 in 1.38 in Hammer Wt: 300 lb. 140 lb. Hammer Fall: 24 in. 30 in. Hammer/Rod Type: Auto/AWJ Rig: MOBILE B53 ATV CE = 1.3		Groundwater Observations Date Depth Notes 07/18/18 13.0 Stab. time = 10 min.								
Depth (ft)	Strata (i)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %		
5		0.0 ft - 0.4 ft, ASPHALT				20-22-15-16 (37)						
		0.4 ft - 1.0 ft, SILTY SAND				8-9-8-17 (17)						
		Visual Description, (Modified Burmister), S-1 (1-3'): Dense, light brown, fine to medium SAND, little Silt, trace Gravel (A-1-b). Moist, Rec. = 1.3 ft, SILTY SAND				2-3-3-3 (6)						
		Visual Description, (Modified Burmister), S-2 (3-5'): Medium dense, light brown, fine SAND, some Silt, trace Gravel (A-2-4). Moist, Rec. = 0.8 ft, SILTY SAND				6-4-4-8 (8)						
		Visual Description, (Modified Burmister), S-3 (5-7'): Loose, light brown, fine SAND, some Silt, trace Gravel (A-2-4). Moist, Rec. = 0.8 ft, SILTY SAND				2-1-1-1 (2)						
		Visual Description, (Modified Burmister), S-4 (7-9'): Loose, light brown, fine SAND, some Silt, trace Gravel (A-2-4). Moist, Rec. = 0.3 ft, SILTY SAND				2-6-15-19 (21)						
		Visual Description, (Modified Burmister), S-5 (9-11'): Very loose, light brown, fine SAND, some Silt (A-2-4). Wet, Rec. = 1.1 ft, SILTY SAND				12-15-15-16 (30)						
		Visual Description, (Modified Burmister), S-6 (11-13'): Medium dense, light brown, fine to coarse SAND, little Gravel, little Silt (A-1-b). Wet, Rec. = 0.9 ft, SILTY SAND				11-15-15-16 (30)						
		Visual Description, (Modified Burmister), S-7 (13-15'): Dense, light brown, fine to medium SAND, little Silt, little Gravel (A-2-4). Wet, Rec. = 0.8 ft, SILTY SAND				36-44-63/4" (R)						
		Visual Description, (Modified Burmister), S-8 (15-17'): Dense, light brown, fine to coarse SAND, some Silt, little Gravel (A-2-4). Wet, Rec. = 0.7 ft, SILTY SAND				75-50/1" (R)						
10		Visual Description, (Modified Burmister), S-9 (17-19'): Very dense, light brown, fine to medium SAND, some Silt, little Gravel (A-2-4). Wet, Rec. = 1.0 ft, GLACIAL TILL				71-50/1" (R)						
		18.3 ft - 19.0 ft, GLACIAL TILL				81-50/1" (R)						
		Visual Description, (Modified Burmister), S-10 (19-19.6'): Very dense, olive, fine SAND and Silt, little Gravel (A-4). Wet, Rec. = 0.5 ft, GLACIAL TILL				100/5" (R)						
		19.6 ft - 22.0 ft, GLACIAL TILL										
		Visual Description, (Modified Burmister), S-11 (22-22.6'): Very dense, olive, fine SAND and Silt, little Gravel (A-4). Wet, Rec. = 0.3 ft, GLACIAL TILL										
		22.6 ft - 24.0 ft, GLACIAL TILL										
		Visual Description, (Modified Burmister), S-12 (24-24.6'): Very dense, olive, fine SAND and Silt, little Gravel (A-4). Wet, Rec. = 0.5 ft, GLACIAL TILL	C-1	97 (53)	3	2						
		24.6 ft - 26.0 ft, GLACIAL TILL				3						
		Visual Description, (Modified Burmister), S-13 (26-26.4'): Very dense, olive, fine SAND and Silt, little Gravel (A-4). Wet, Rec. = 0.4 ft, GLACIAL TILL				4.5						
		26.4 ft - 28.0 ft, BEDROCK				3.5						
15		28.0 ft - 33.0 ft, C1: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low to high angle, extremely close to moderately spaced, rough, fresh, open to tight. -WINOOSKI DOLOSTONE-										
		33.0 ft - 38.0 ft, C2: Hard, fresh, gray, fine grained, DOLOSTONE. Joints are low angle to moderately dipping, moderately spaced, rough, planar, fresh, tight. -WINOOSKI DOLOSTONE-	C-2	100 (95)	3.5	4						
		Hole stopped @ 38.0 ft										
		Remarks: 1. Split spoon refusal at 18.3 feet, 19.6 feet, 22.6 feet, and 24.6 feet. 2. Split spoon refusal at 26.4 feet. Advanced roller bit to 28.0 feet and set up to core. 3. Core barrel jammed at 32 feet.										

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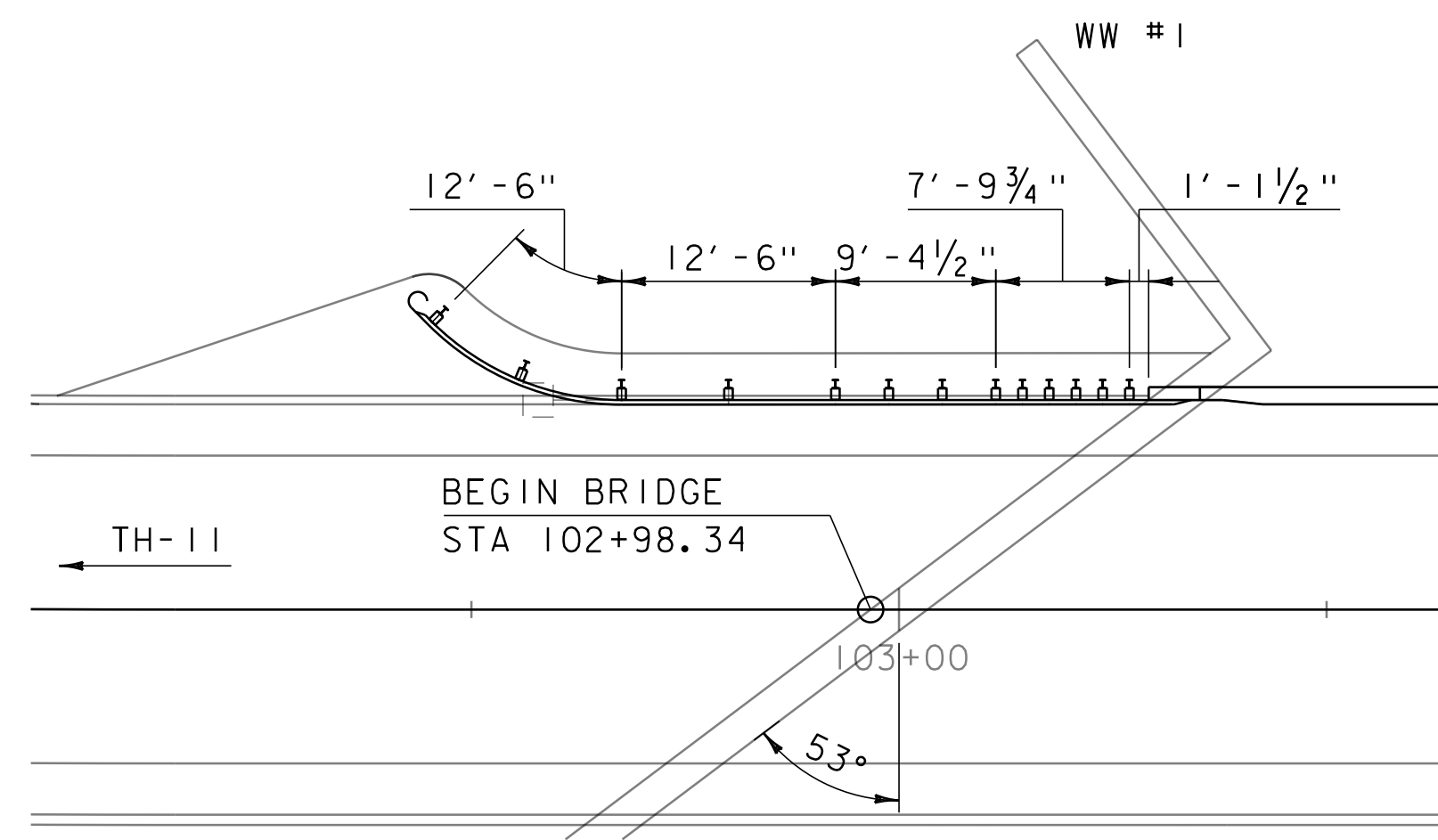
Remarks:  
1. Split spoon refusal at 18.3 feet, 19.6 feet, 22.6 feet, and 24.6 feet.  
2. Split spoon refusal at 26.4 feet. Advanced roller bit to 28.0 feet and set up to core.  
3. Core barrel jammed at 32 feet.

NOTE:  
PAGE 2 OF 2 OMITTED FROM BORING B-106. REMARKS FROM THAT SHEET INCLUDED ABOVE.

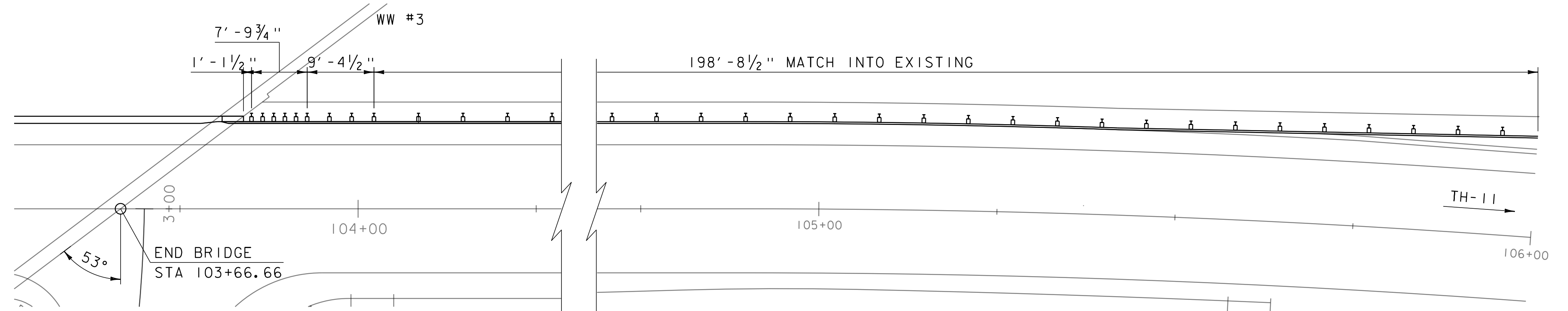
PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003bor.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
BORING LOGS 3

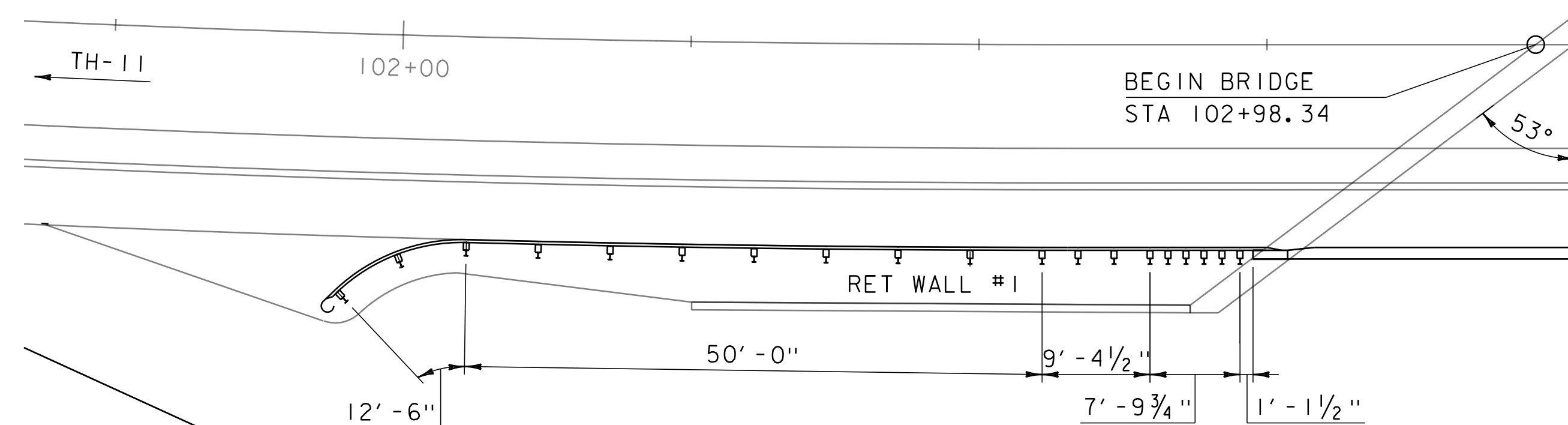
PLOT DATE: 13-MAY-2019  
DRAWN BY: D.PETERSON  
CHECKED BY: P.FLAHERTY  
SHEET 19 OF 33



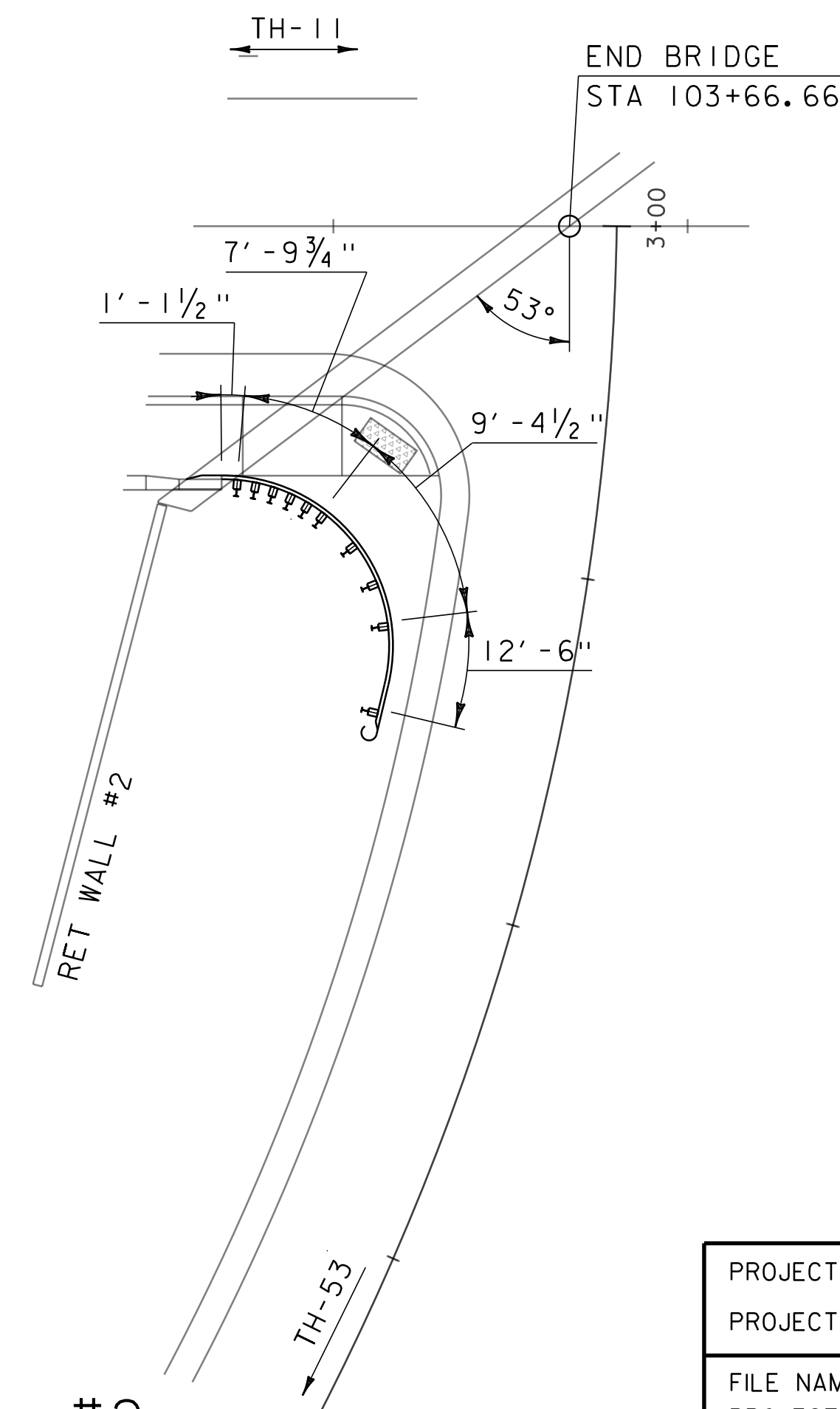
GUARDRAIL WW #1



GUARDRAIL WW #3



GUARDRAIL RETAINING WINGWALL #1



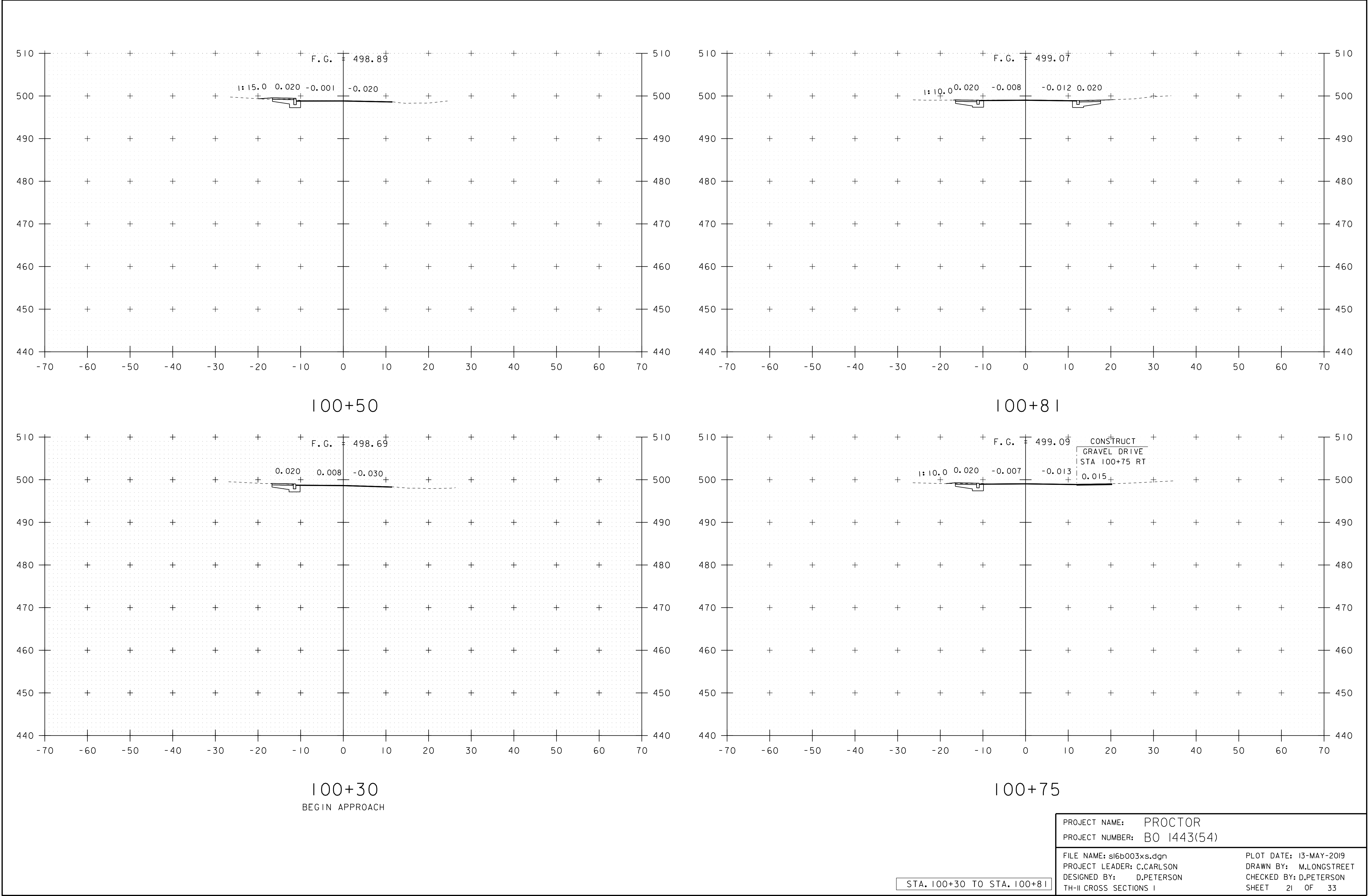
GUARDRAIL RETAINING WINGWALL #2

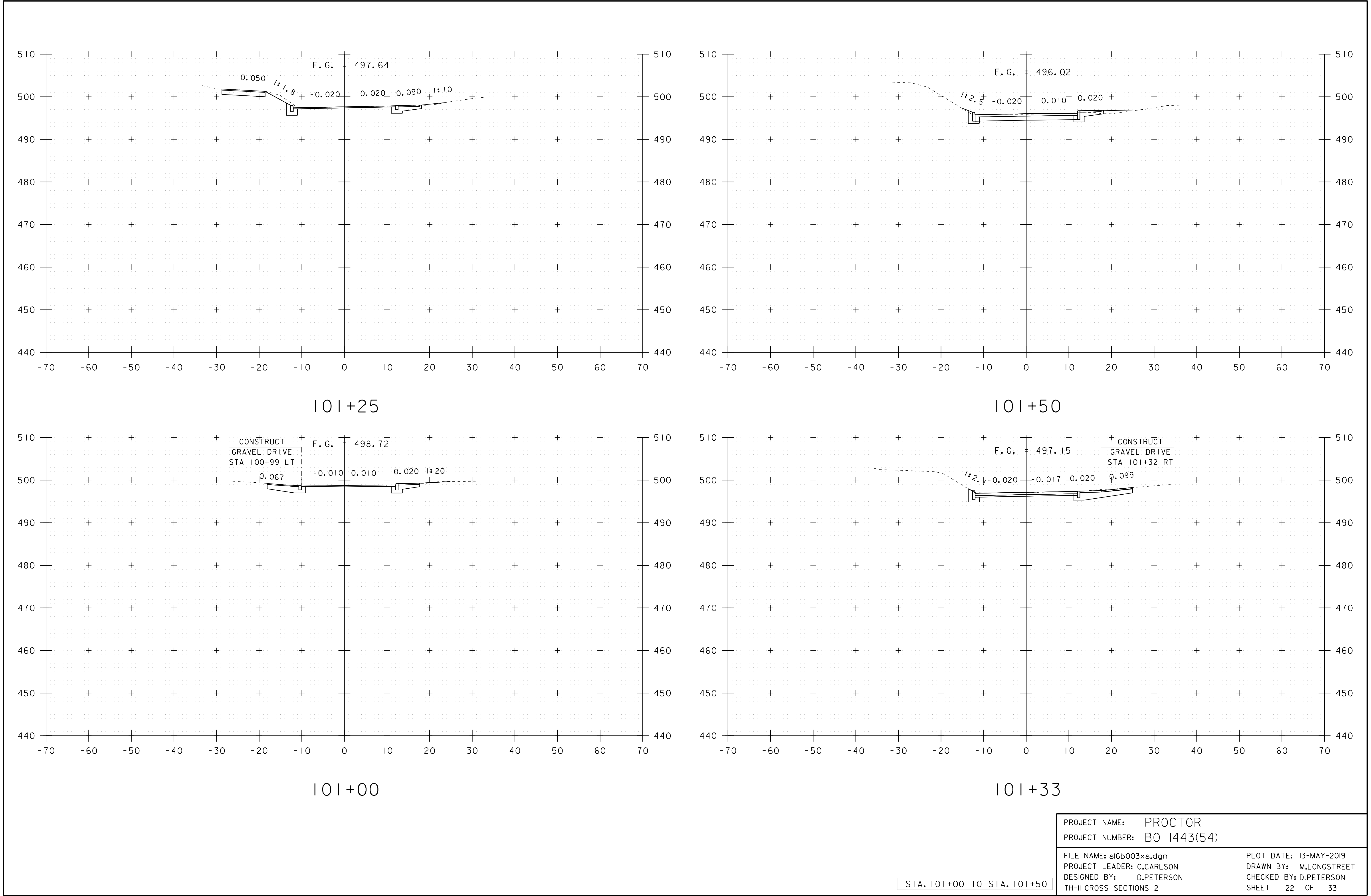
SCALE 1" = 10'-0"  
10 0 10

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003rail.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
RAIL LAYOUT

PLOT DATE: 13-MAY-2019  
DRAWN BY: R.PELLETT  
CHECKED BY: D.PETERSON  
SHEET 20 OF 33



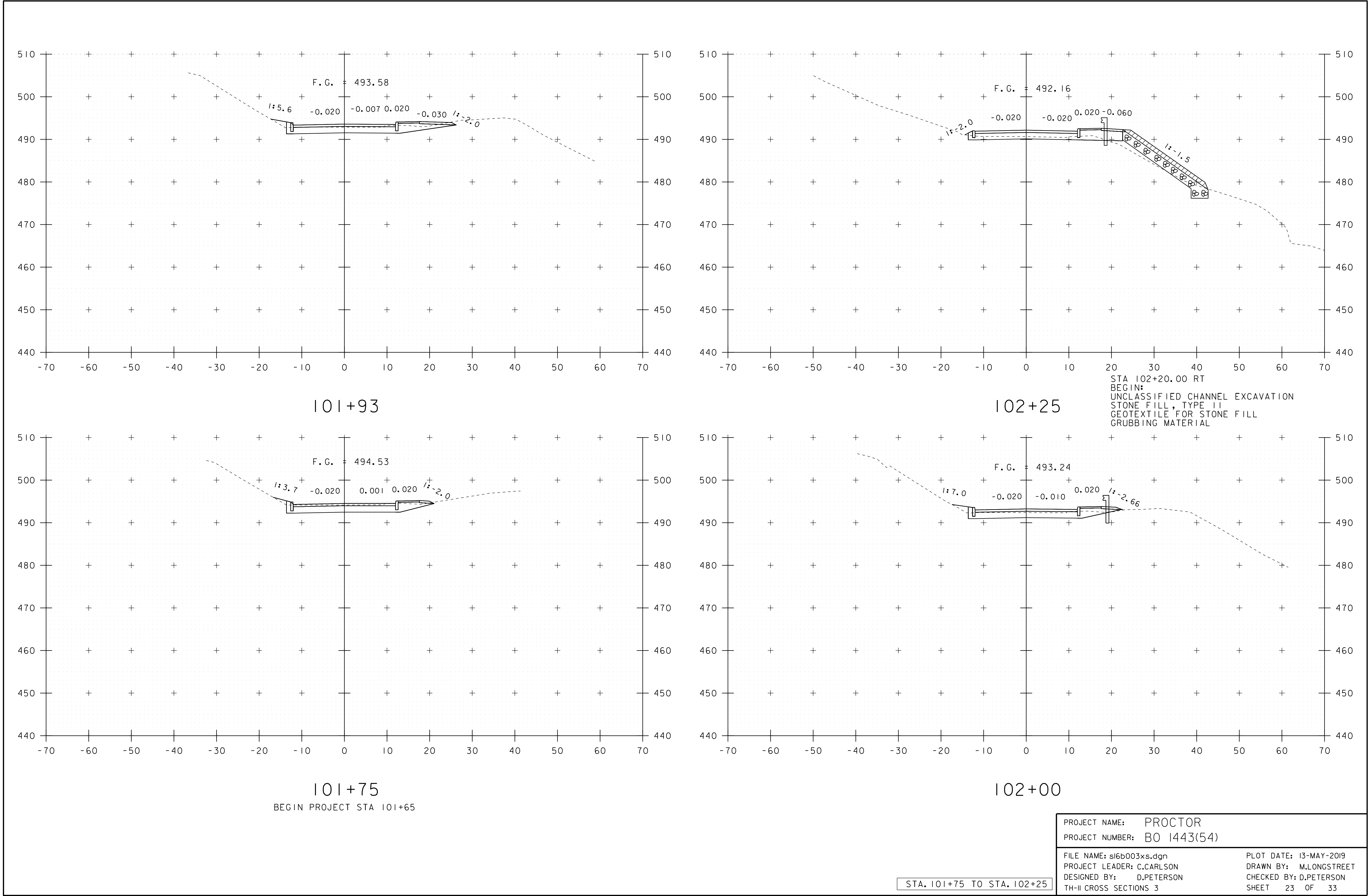


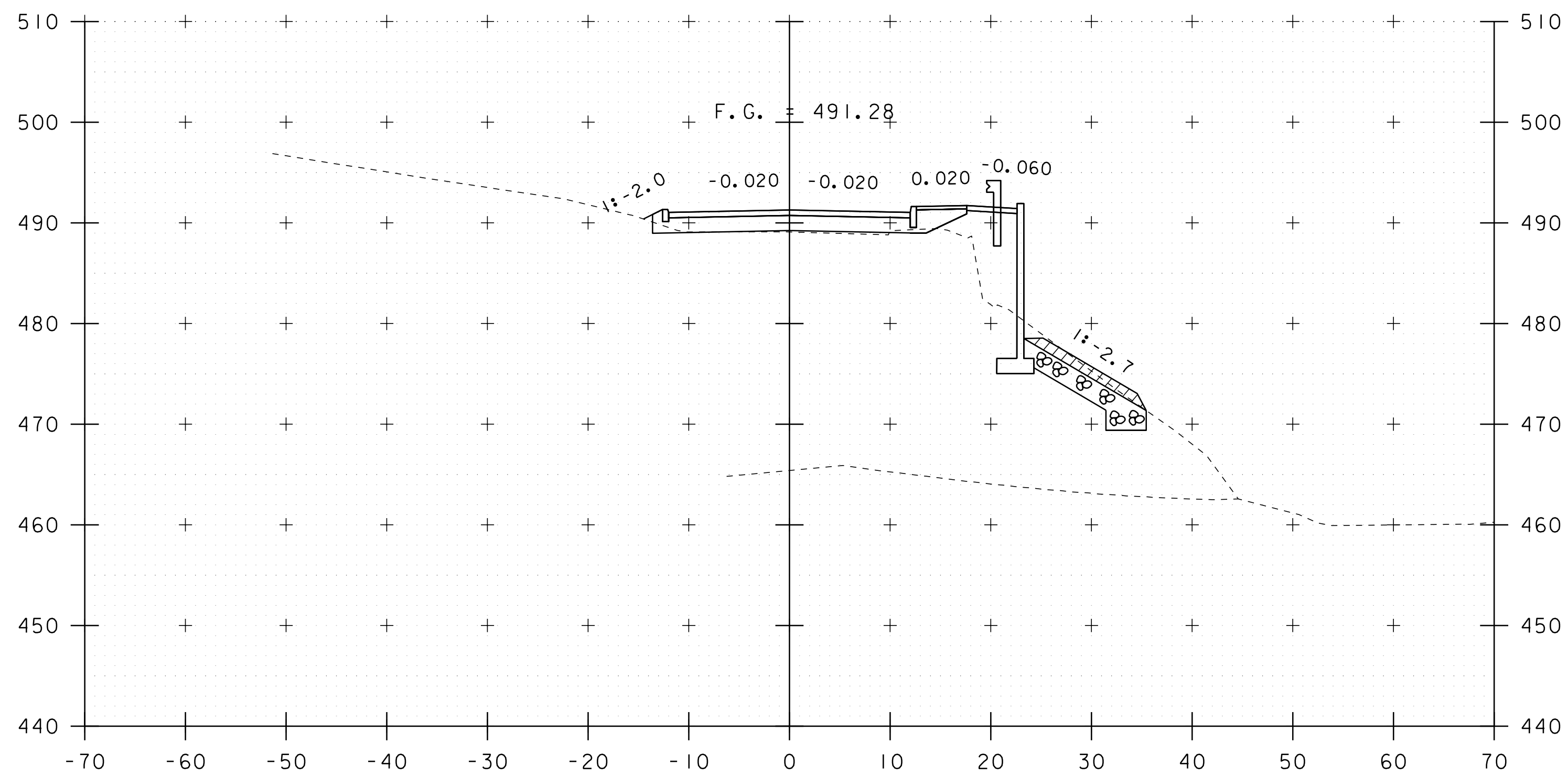
STA. 101+00 TO STA. 101+50

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
TH-II CROSS SECTIONS 2

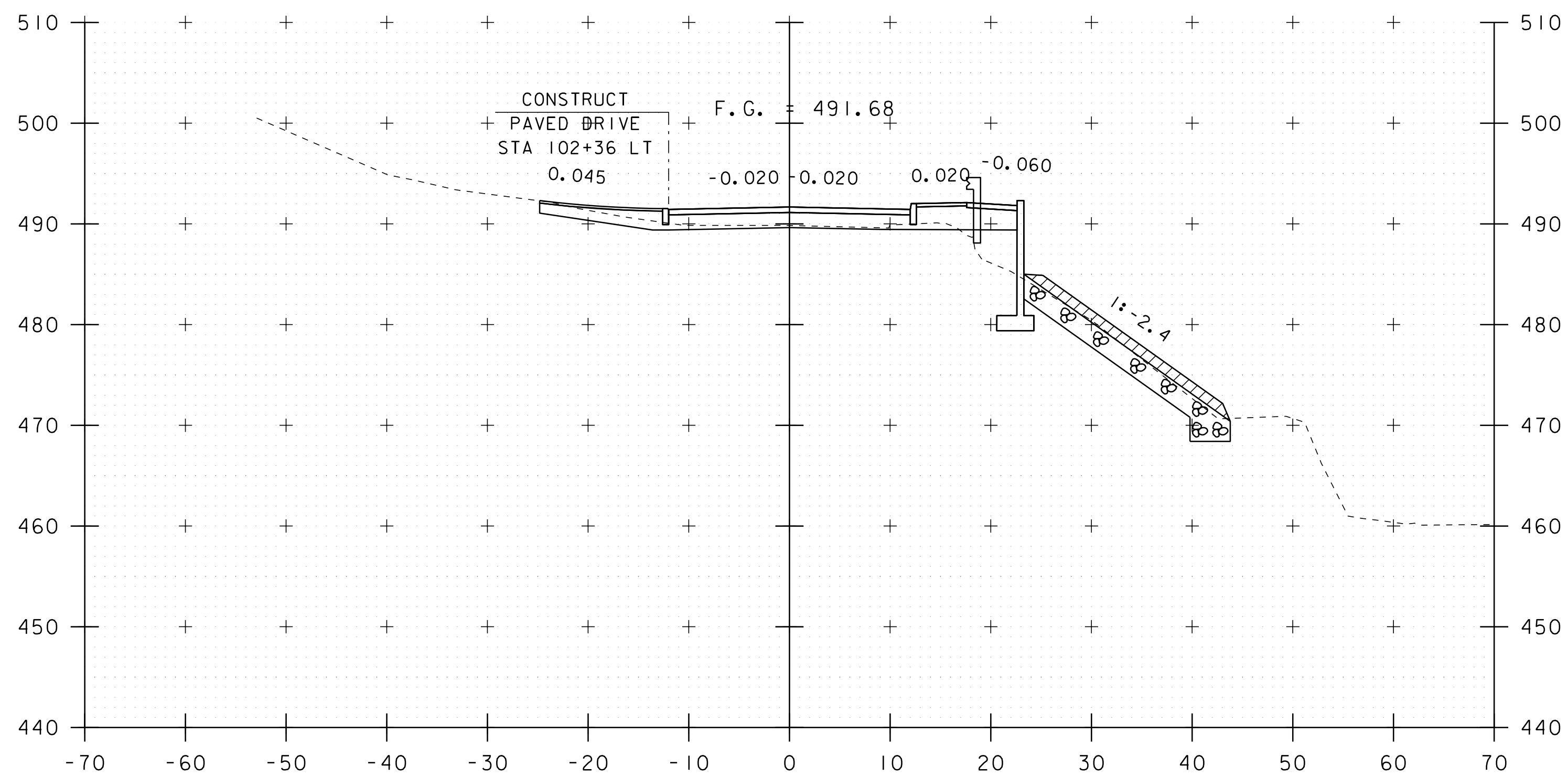
PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 22 OF 33



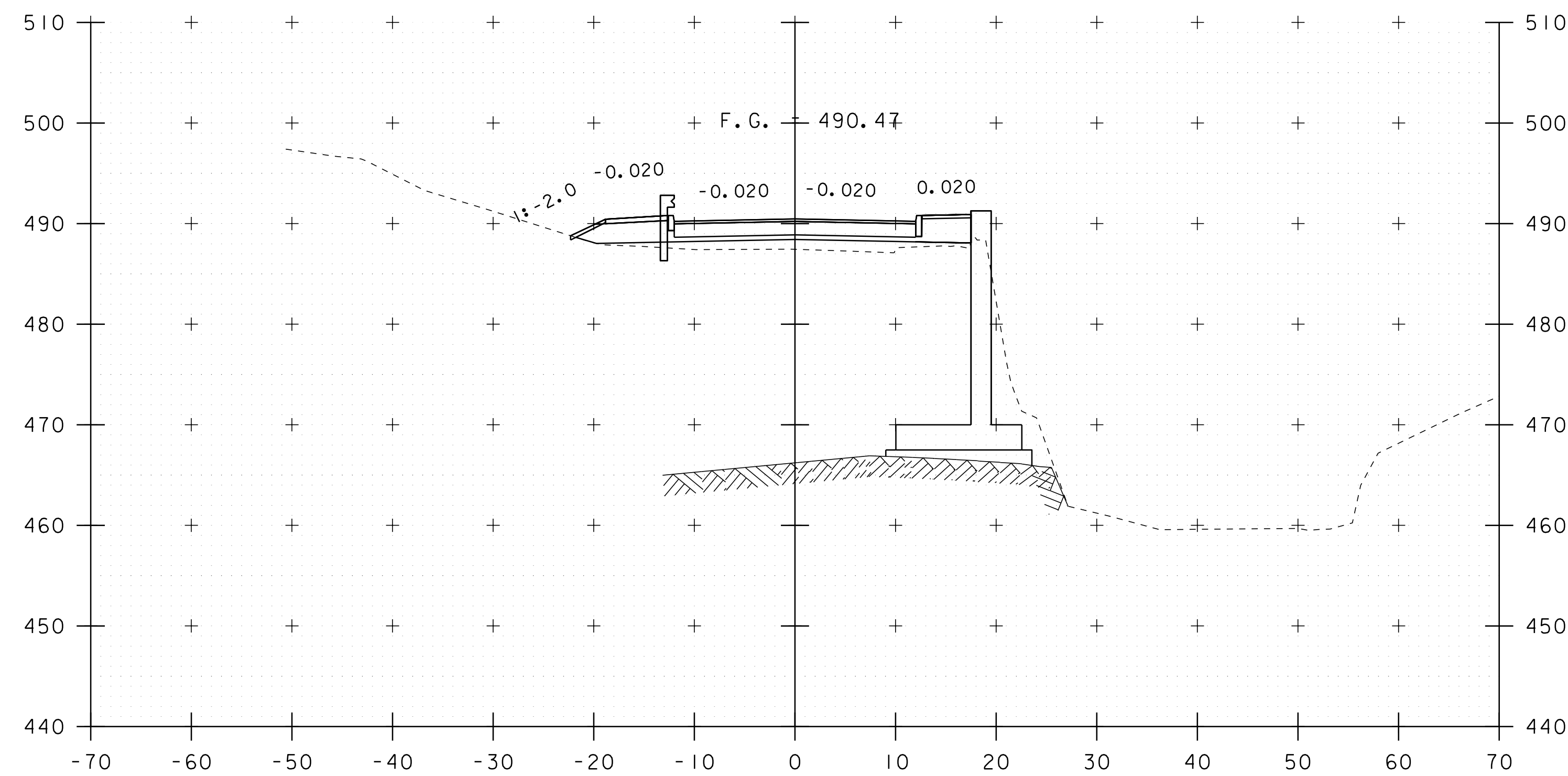


102+50

STA 102+67.00 RT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



102+38

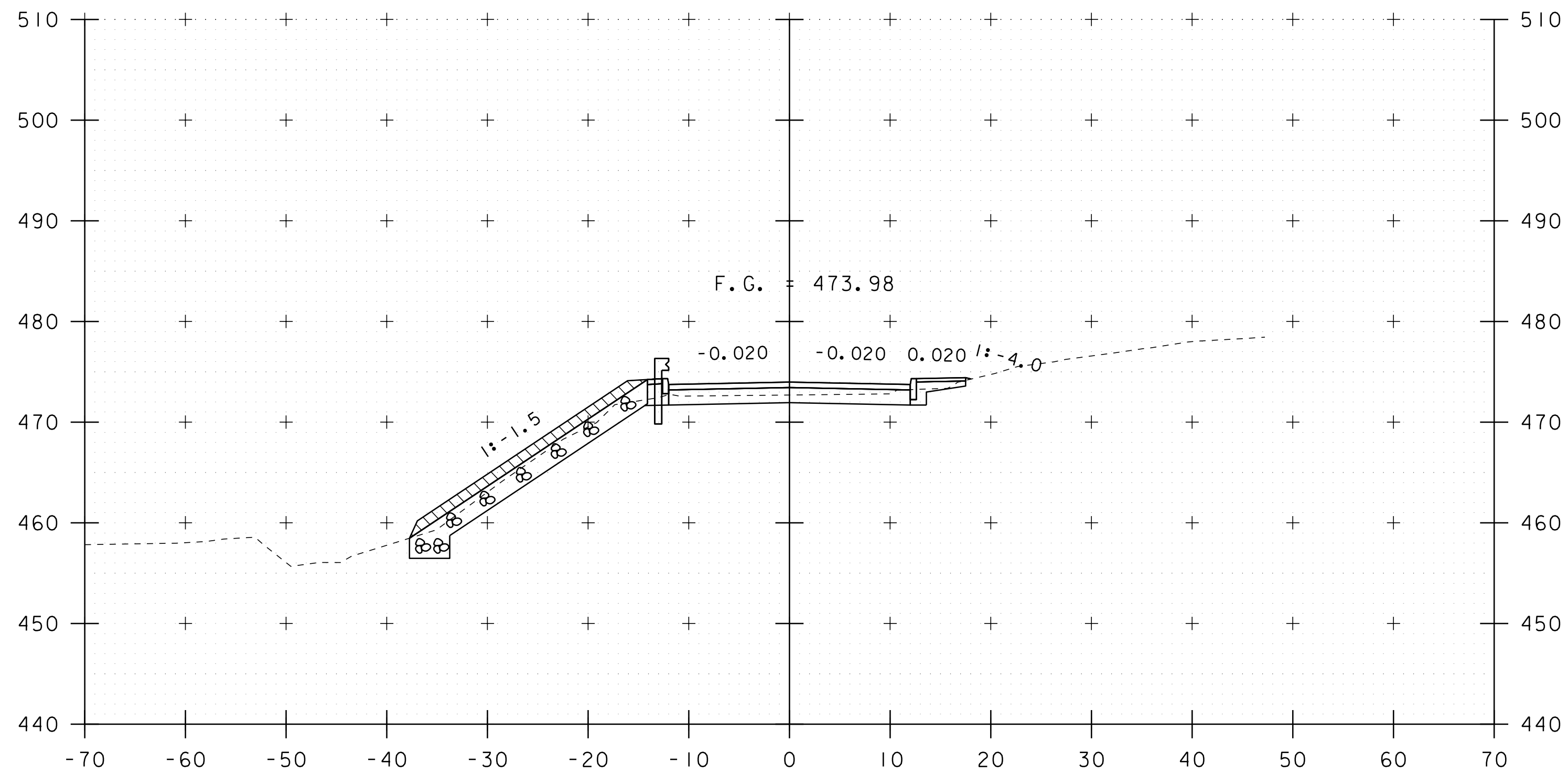


102+75

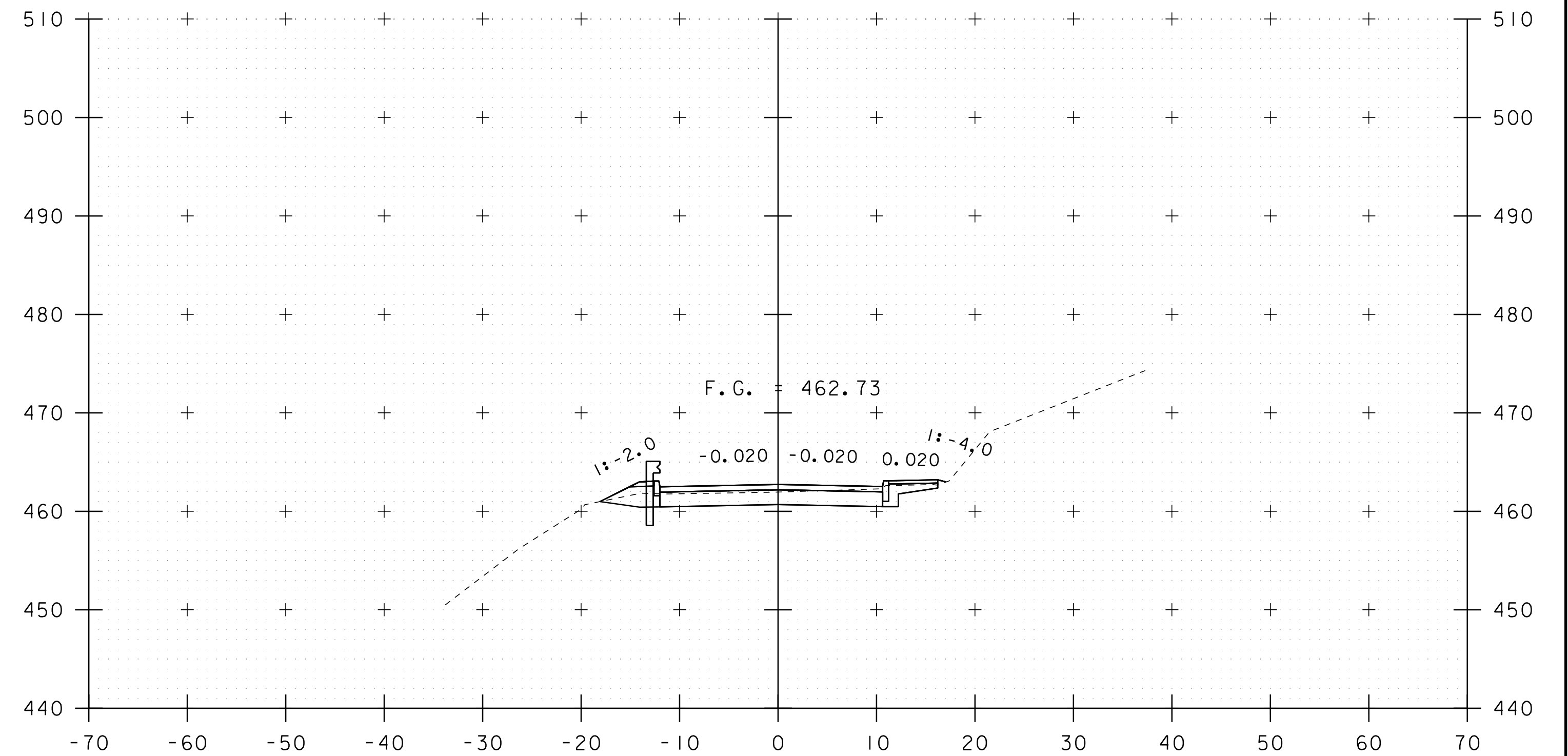
STA. 102+38 TO STA. 102+75

PROJECT NAME: PROCTOR	
PROJECT NUMBER: BO 1443(54)	
FILE NAME: sl6b003xs.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
TH-II CROSS SECTIONS 4	SHEET 24 OF 33

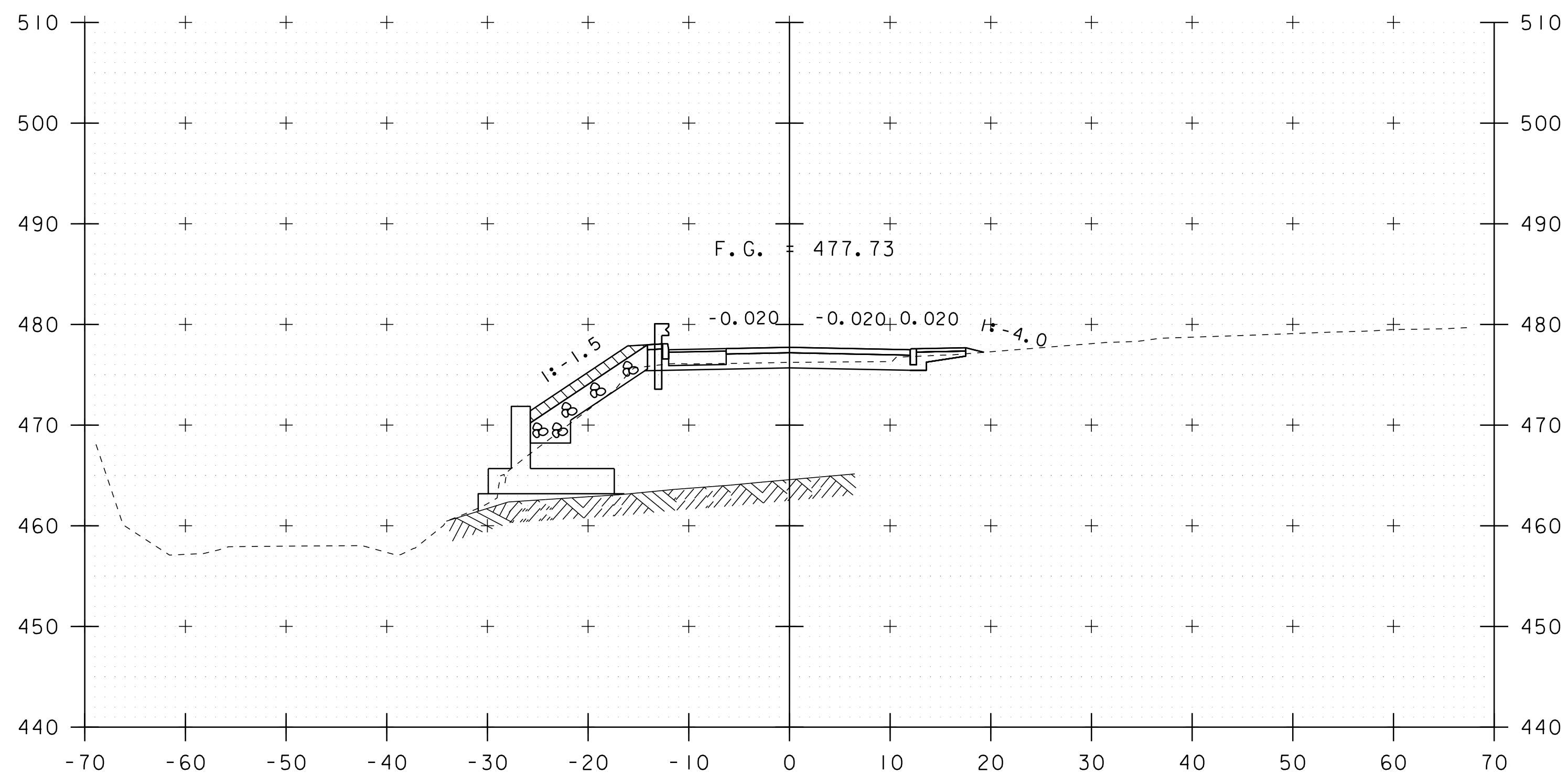




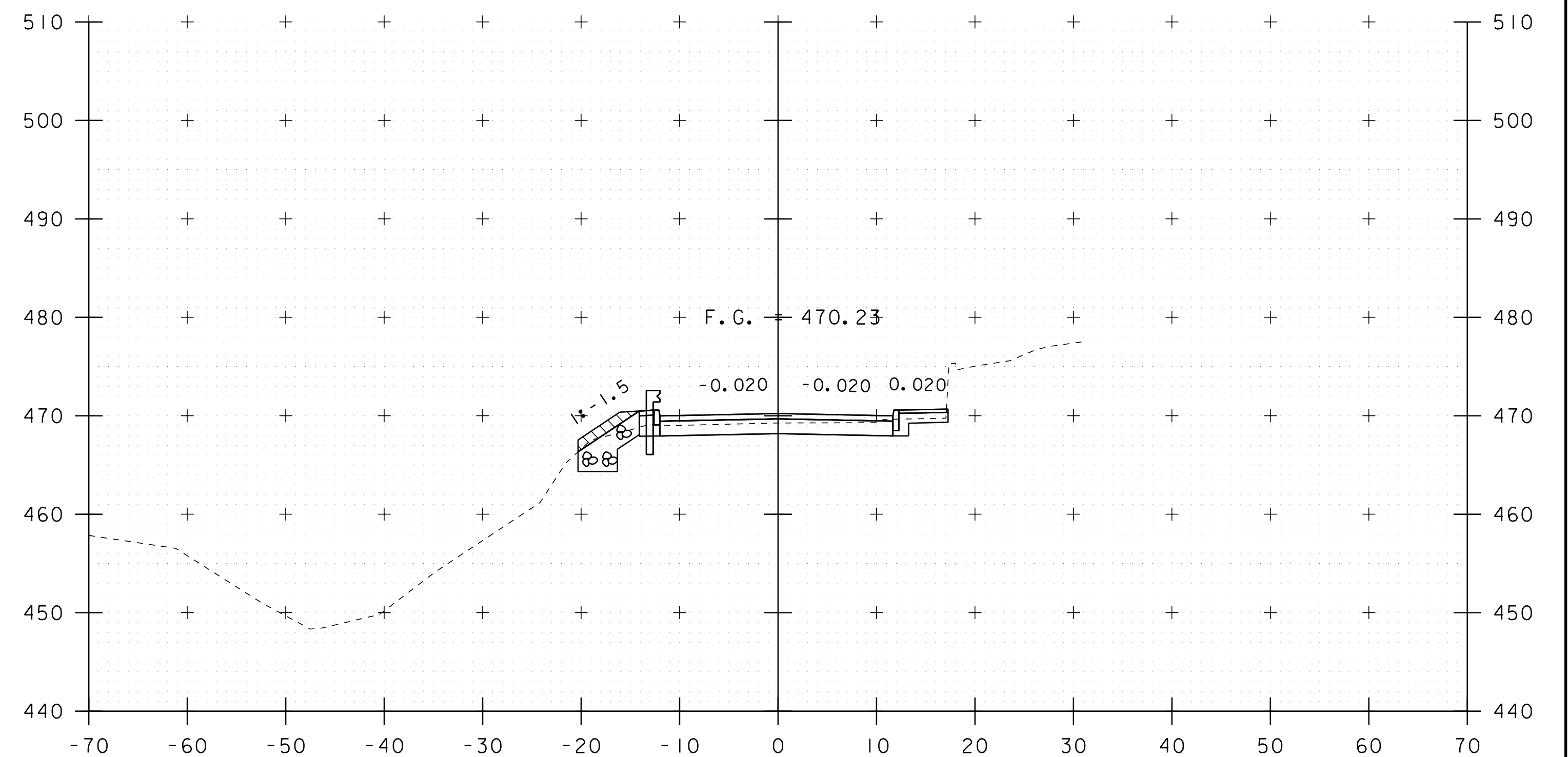
104+25



105+00



104+00



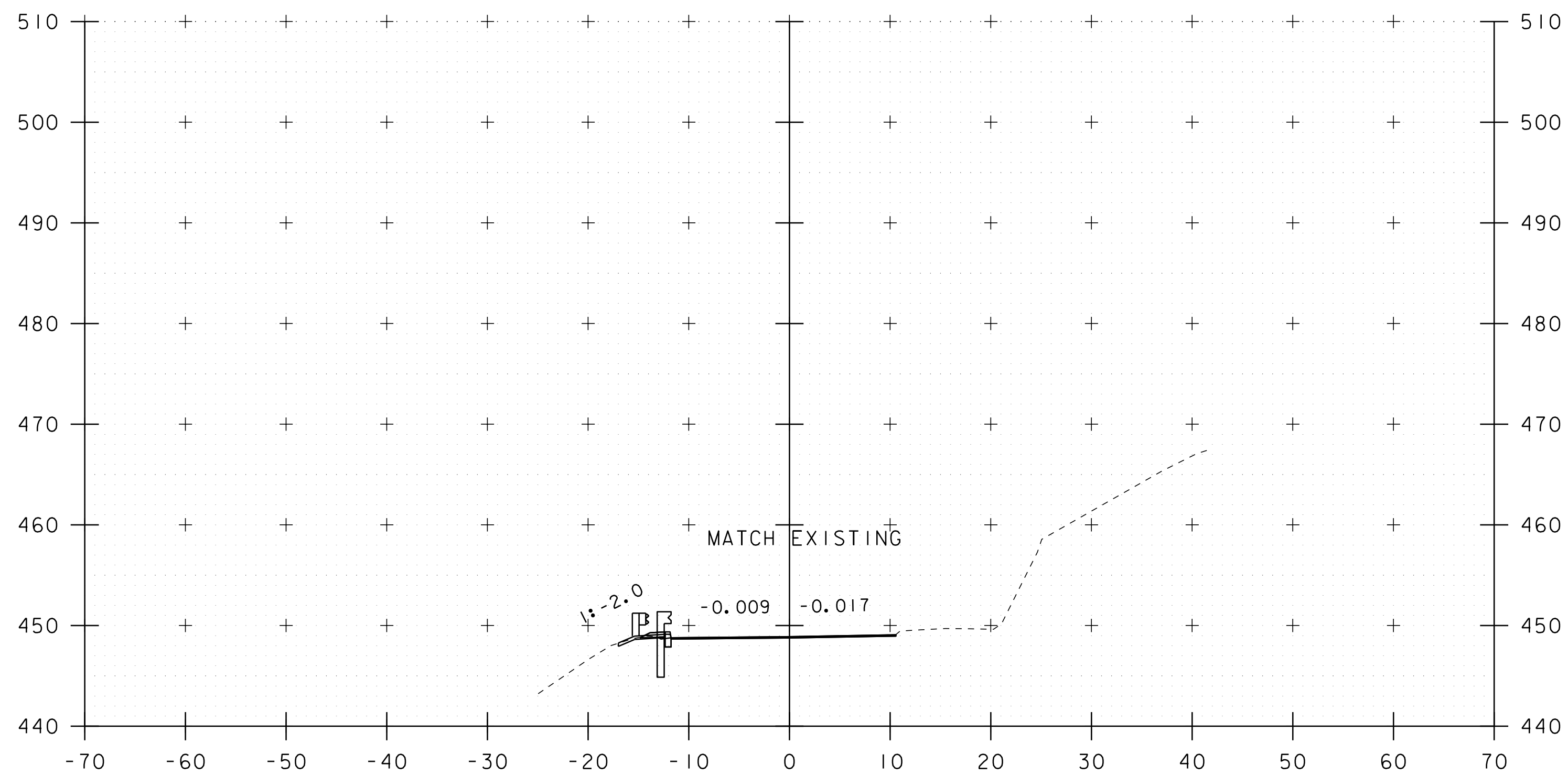
104+50

STA 103+85.00 LT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

STA 104+63.00 LT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

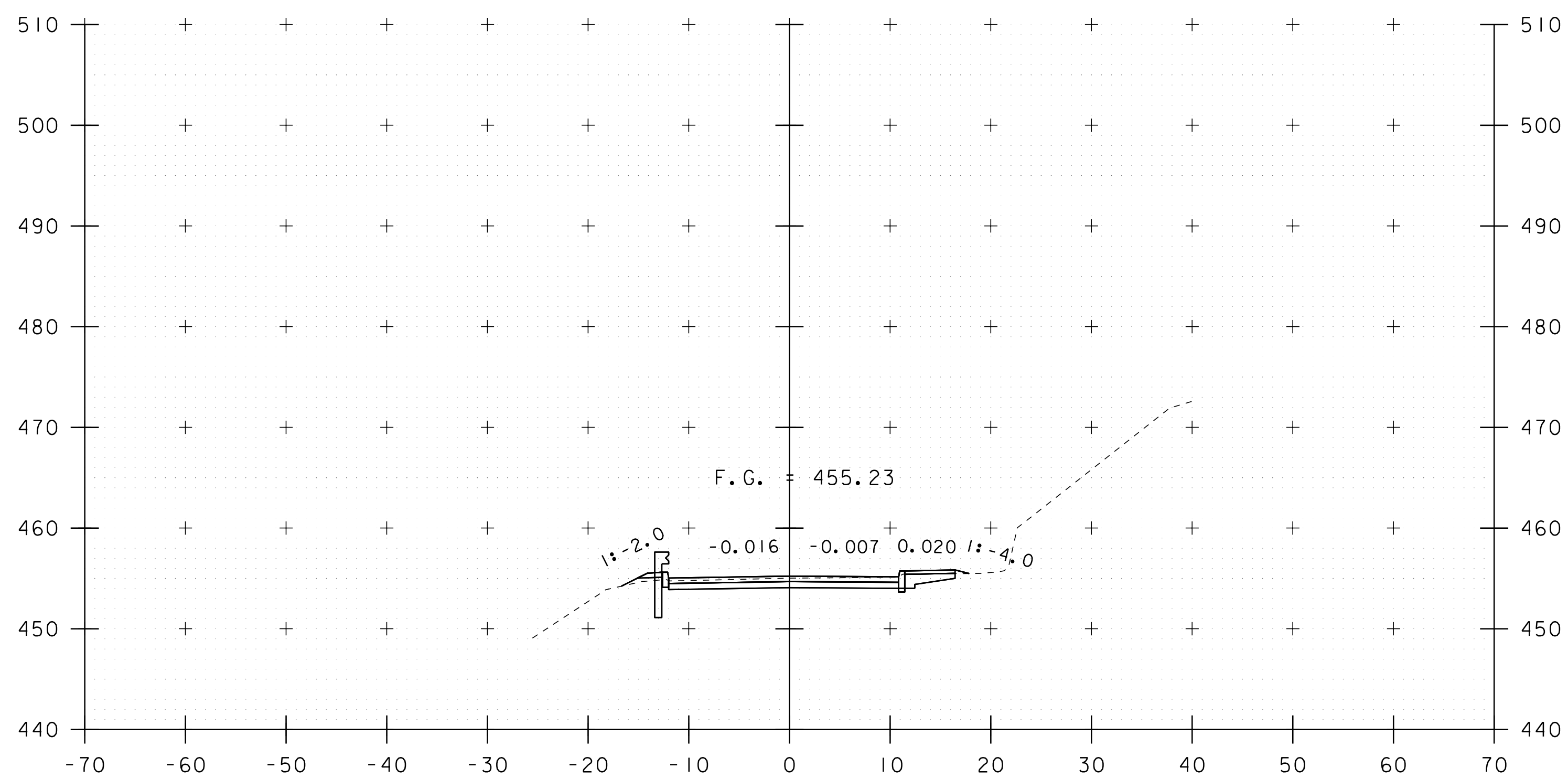
STA. 104+00 TO STA. 105+00

PROJECT NAME: PROCTOR	
PROJECT NUMBER: BO 1443(54)	
FILE NAME: sl6b003xs.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
TH-II CROSS SECTIONS 6	SHEET 26 OF 33



106+00

END APPROACH



105+50

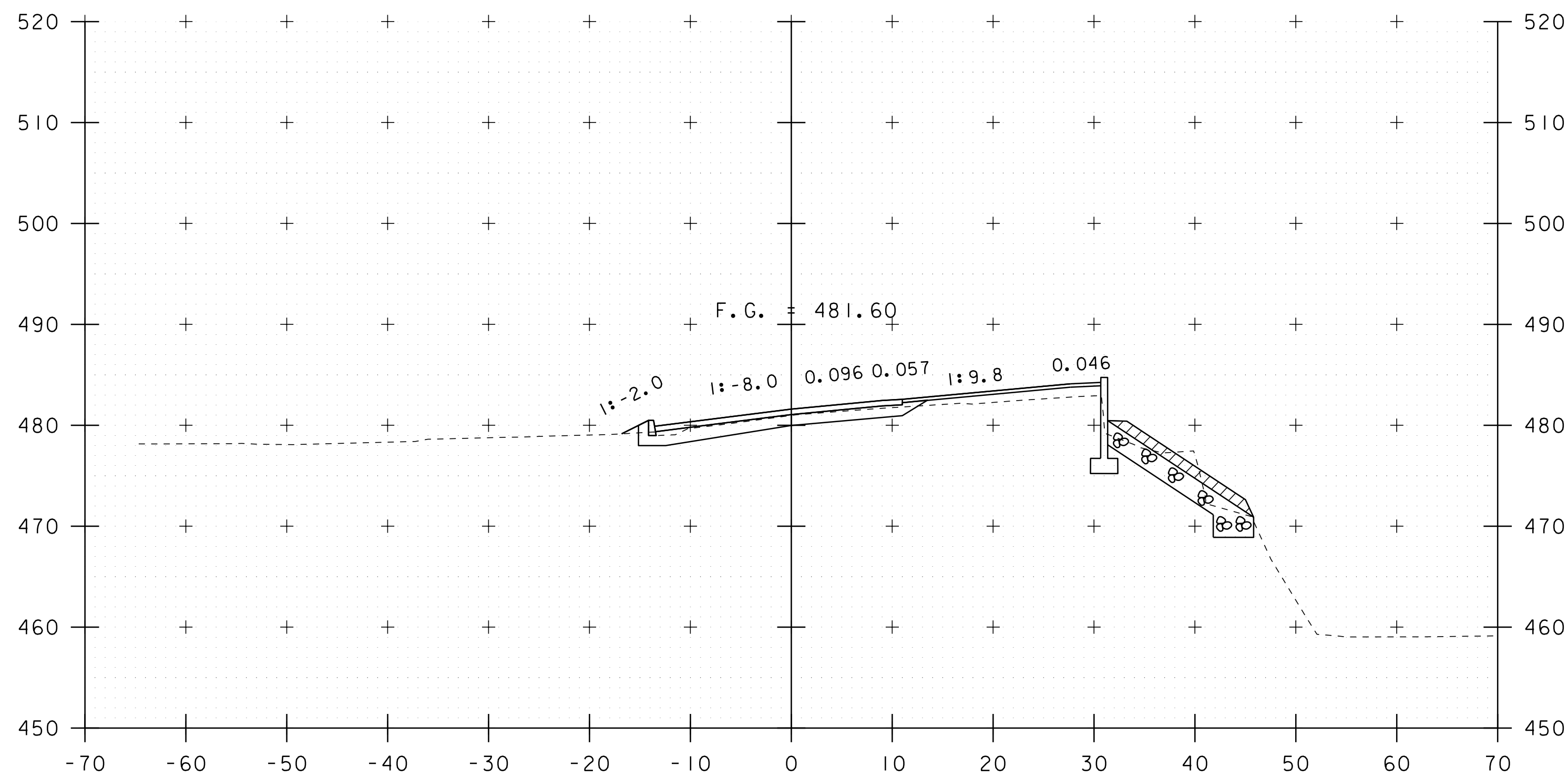
END PROJECT STA 105+25

STA. 105+50 TO STA. 106+00

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

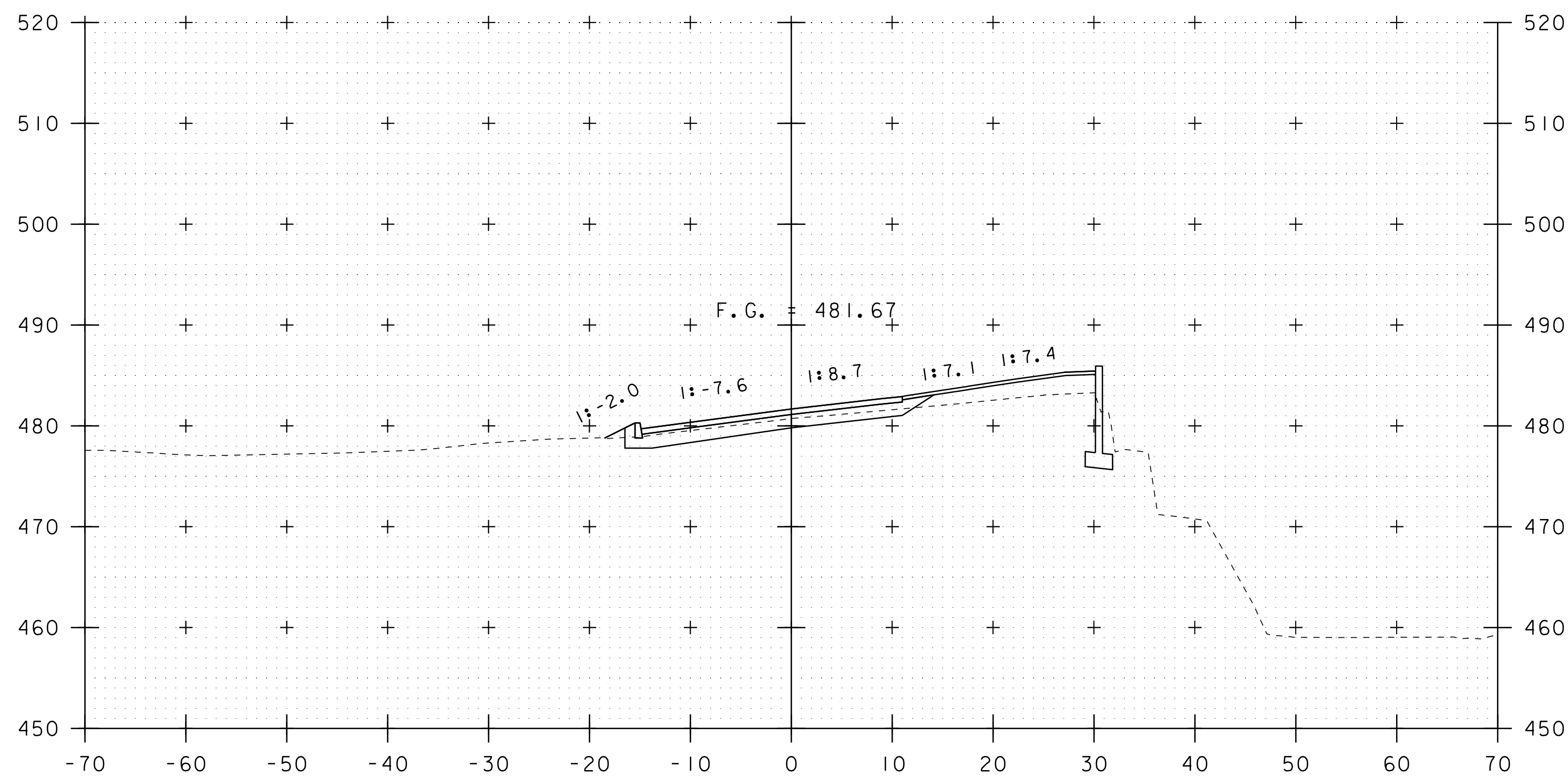
FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
TH-II CROSS SECTIONS 7

PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 27 OF 33



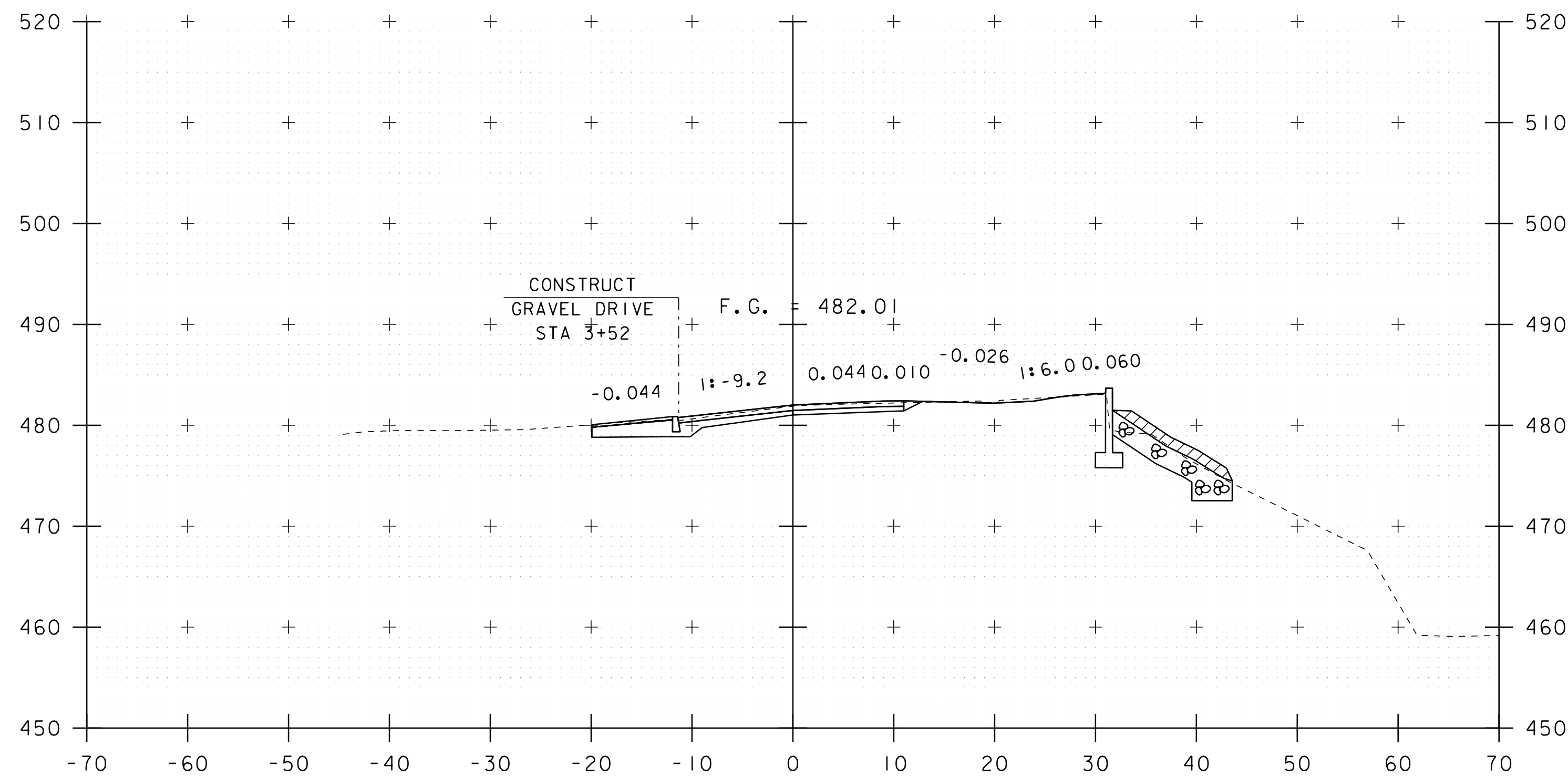
3+32

STA 3+27.00 LT/RT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



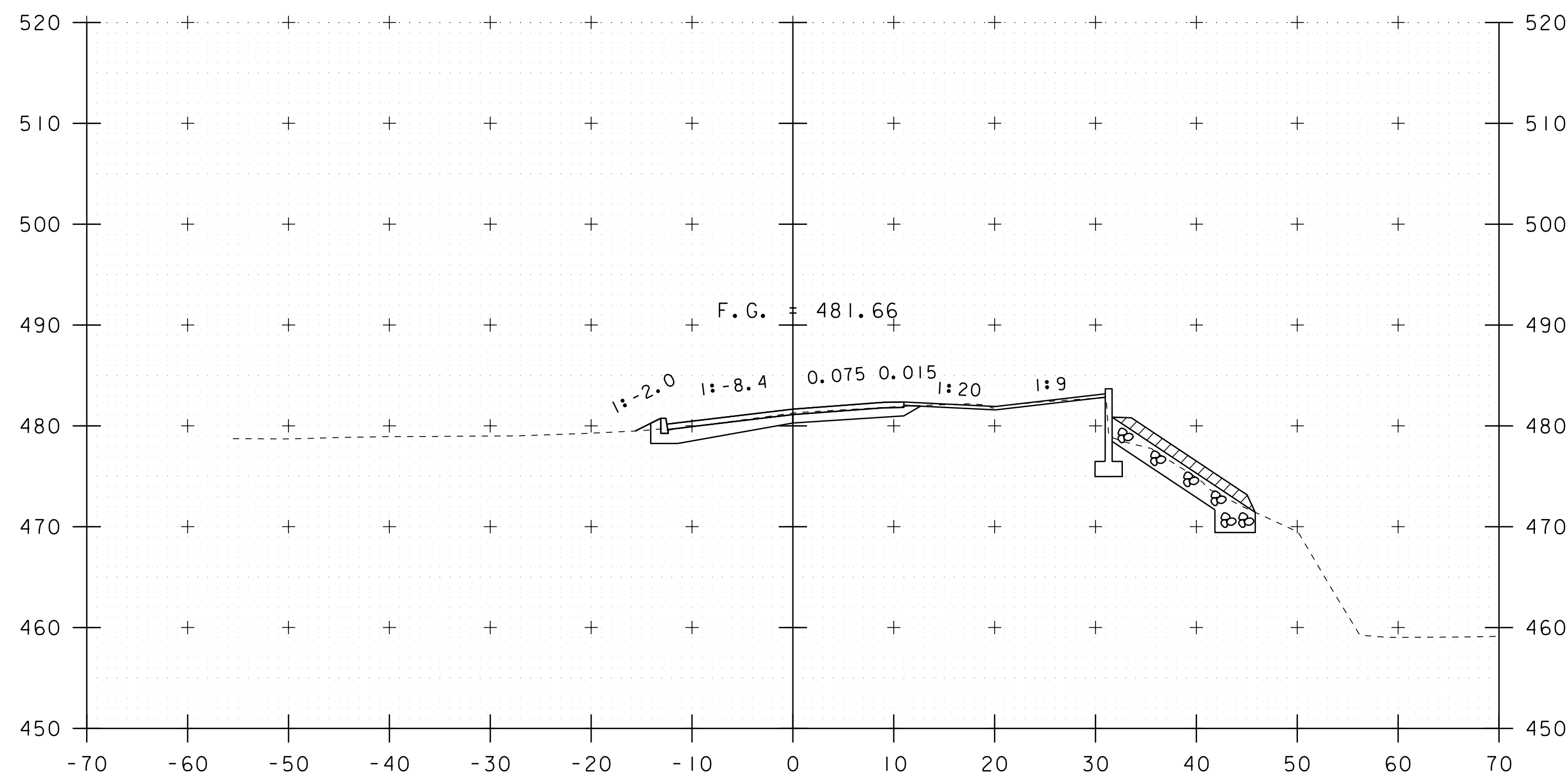
3+25

BBEGIN TH 53  
STA. 3+20



3+50

STA 3+72.00 RT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



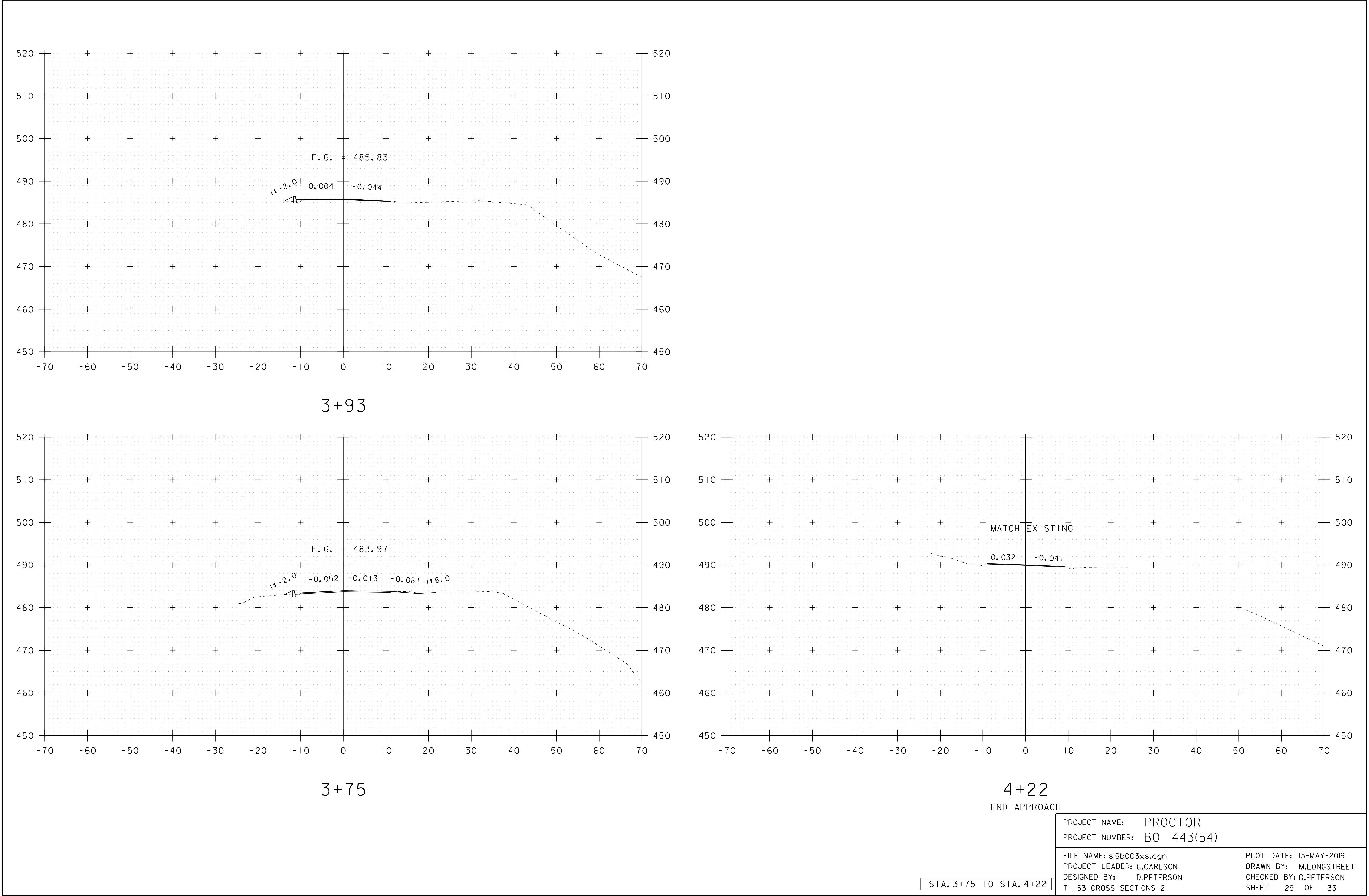
3+39

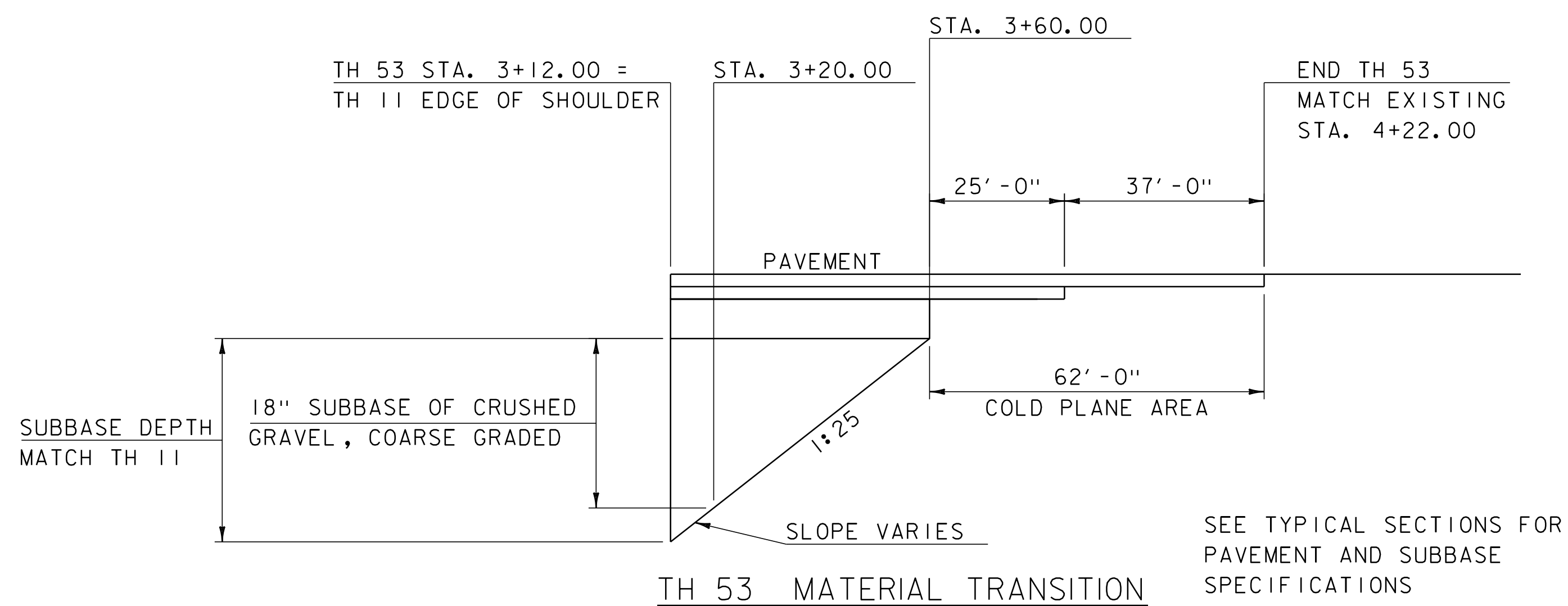
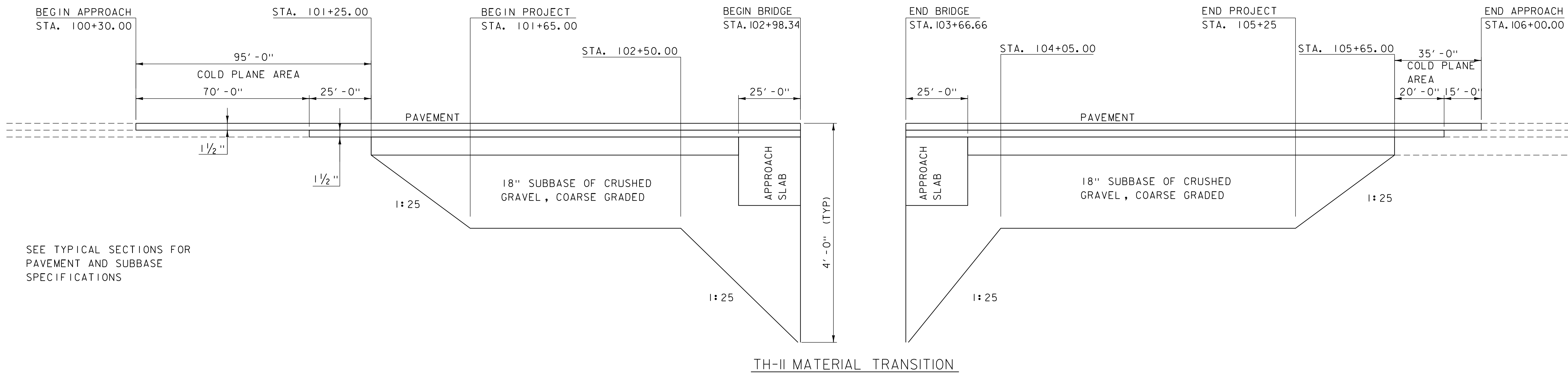
STA. 3+25 TO STA. 3+50

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
TH-53 CROSS SECTIONS I

PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 28 OF 33

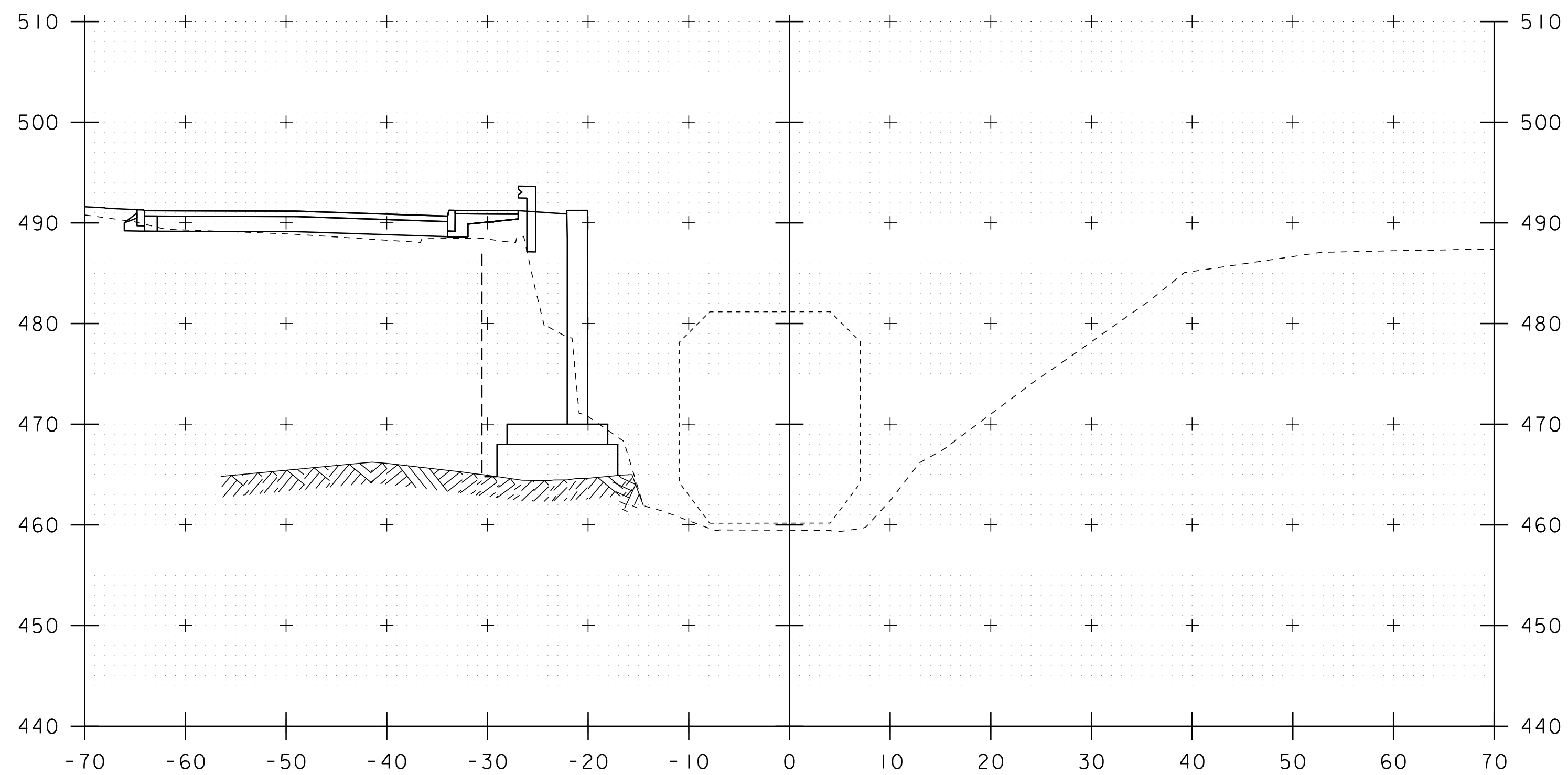




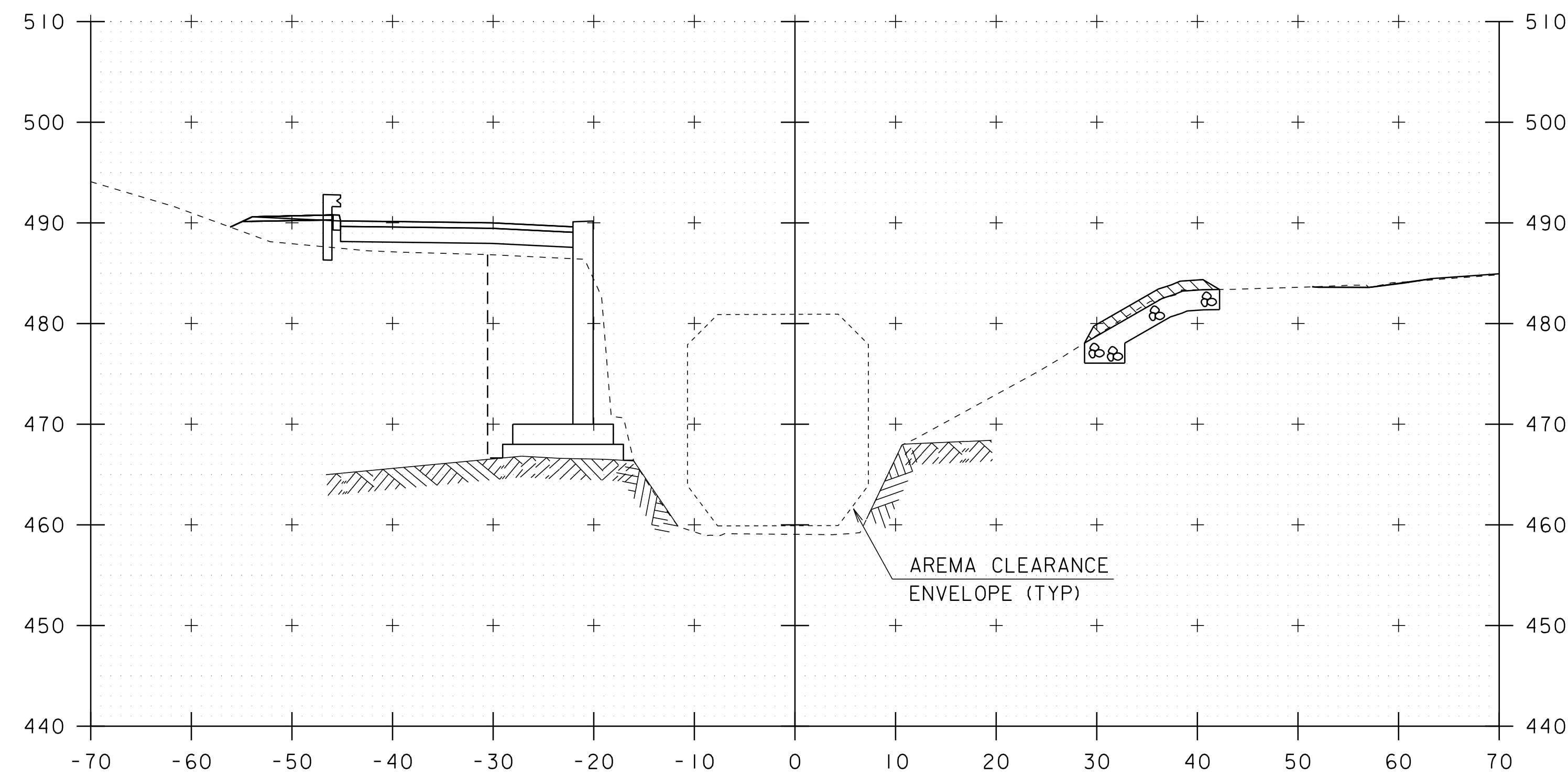
PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
MATERIAL TRANSITION DIAGRAM

PLOT DATE: 13-MAY-2019  
DRAWN BY: R.PELLETT  
CHECKED BY: D.PETERSON  
SHEET 30 OF 33

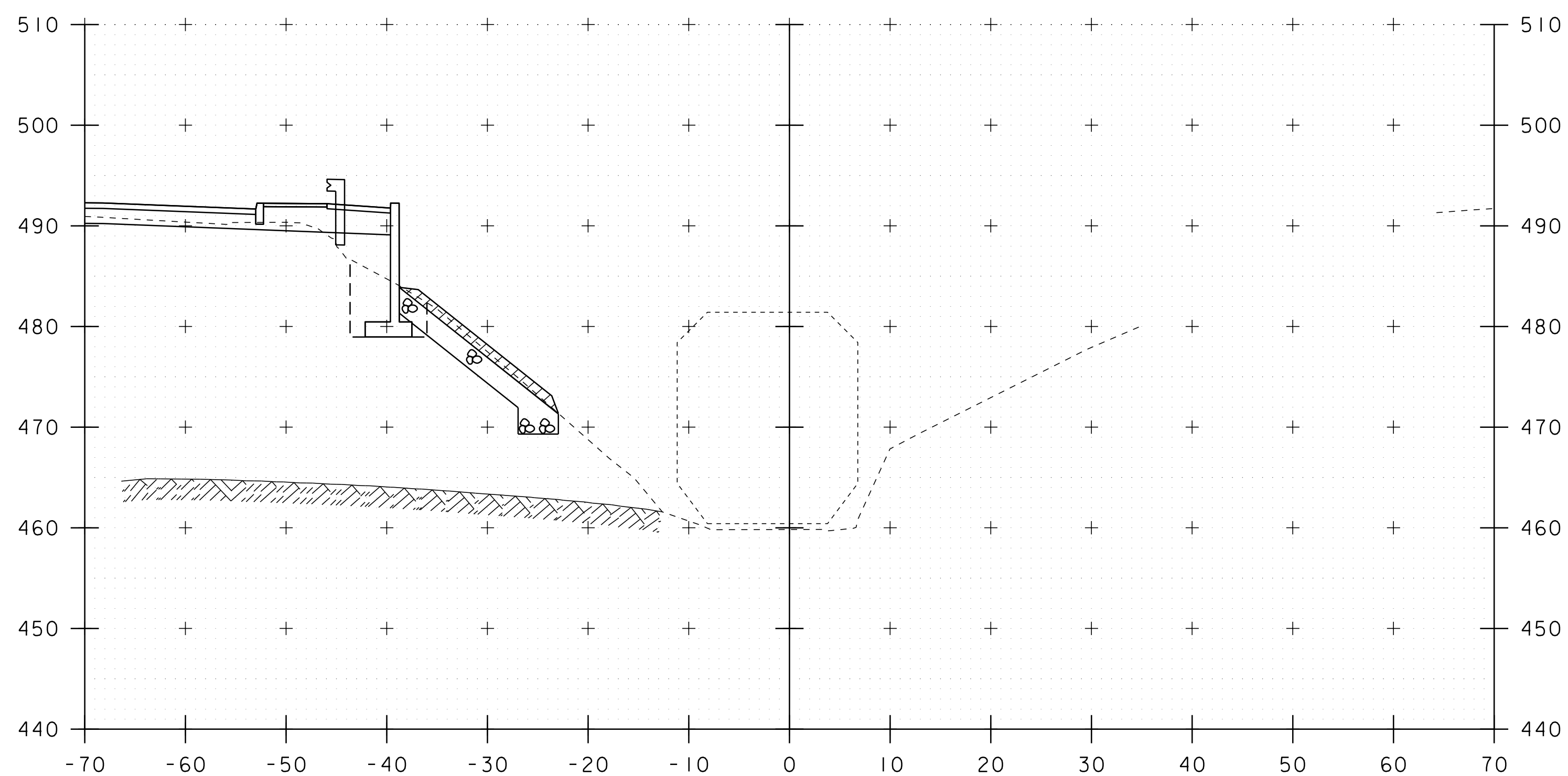


50+50



50+75

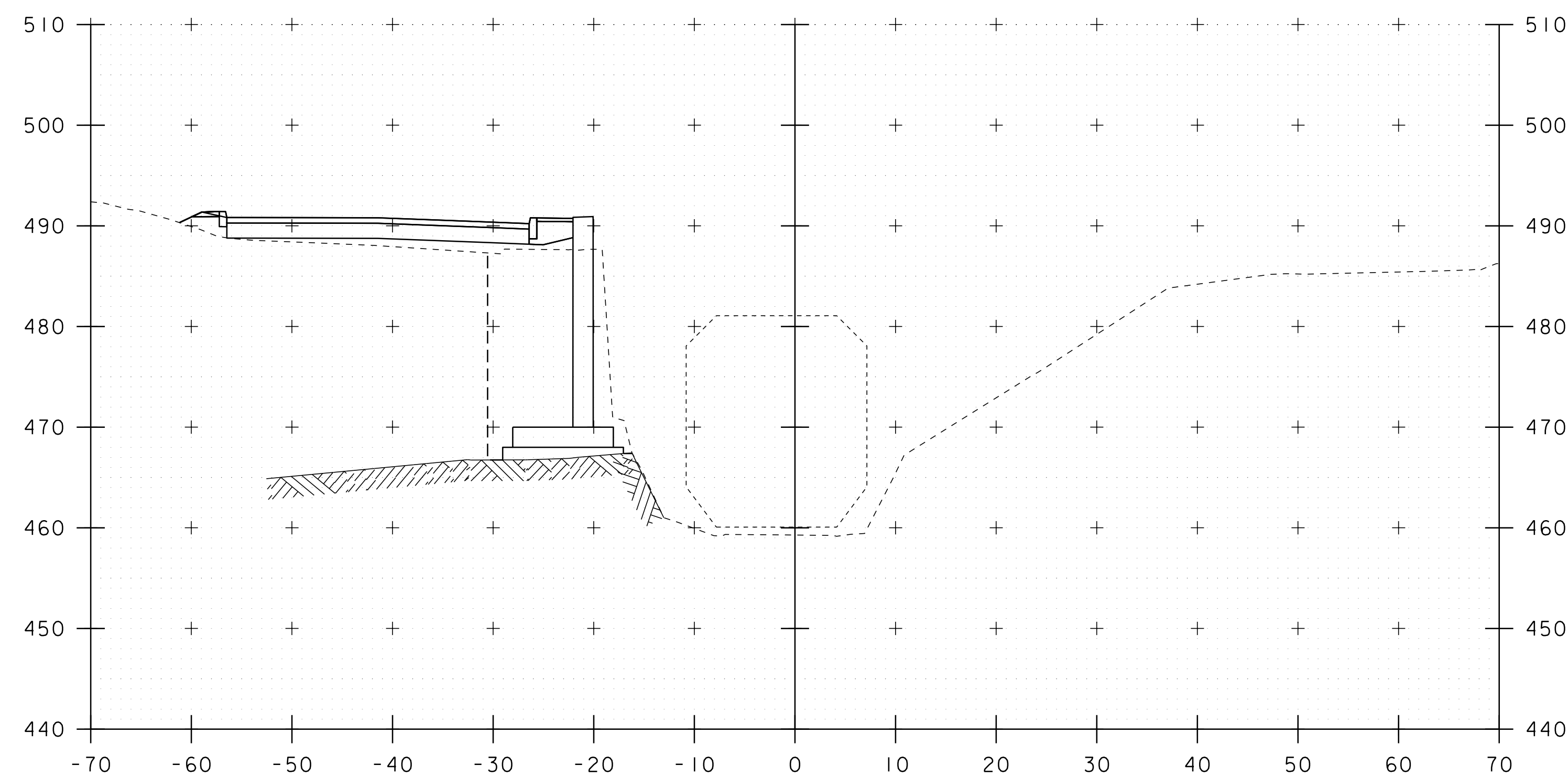
STA 50+71.00 RT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



50+25

STA 50+00.00 LT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

STA 50+47.00 LT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



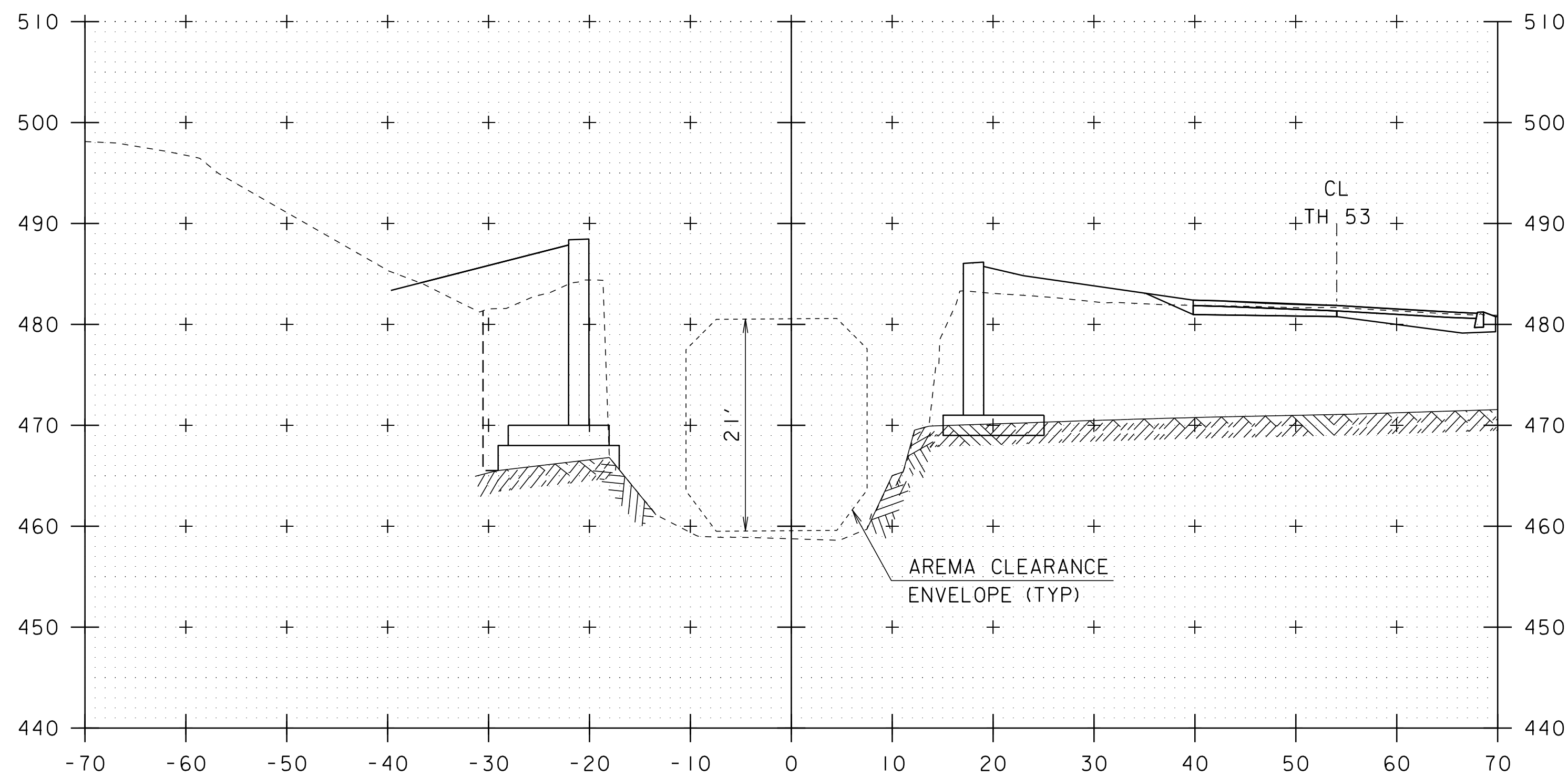
50+60

STA. 50+25 TO STA. 50+75

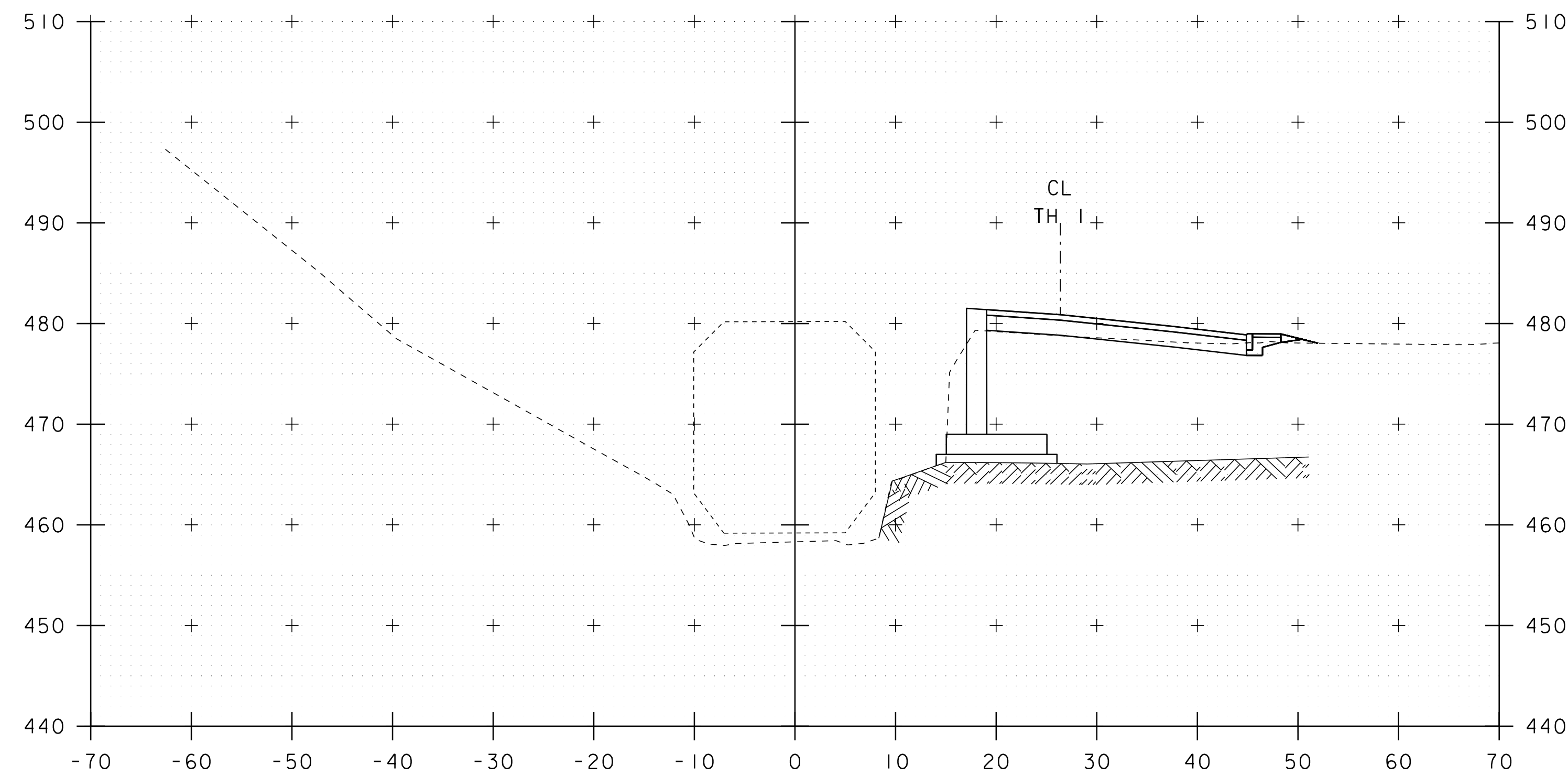
PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
RR UNDER PASS CROSS SECTIONS I

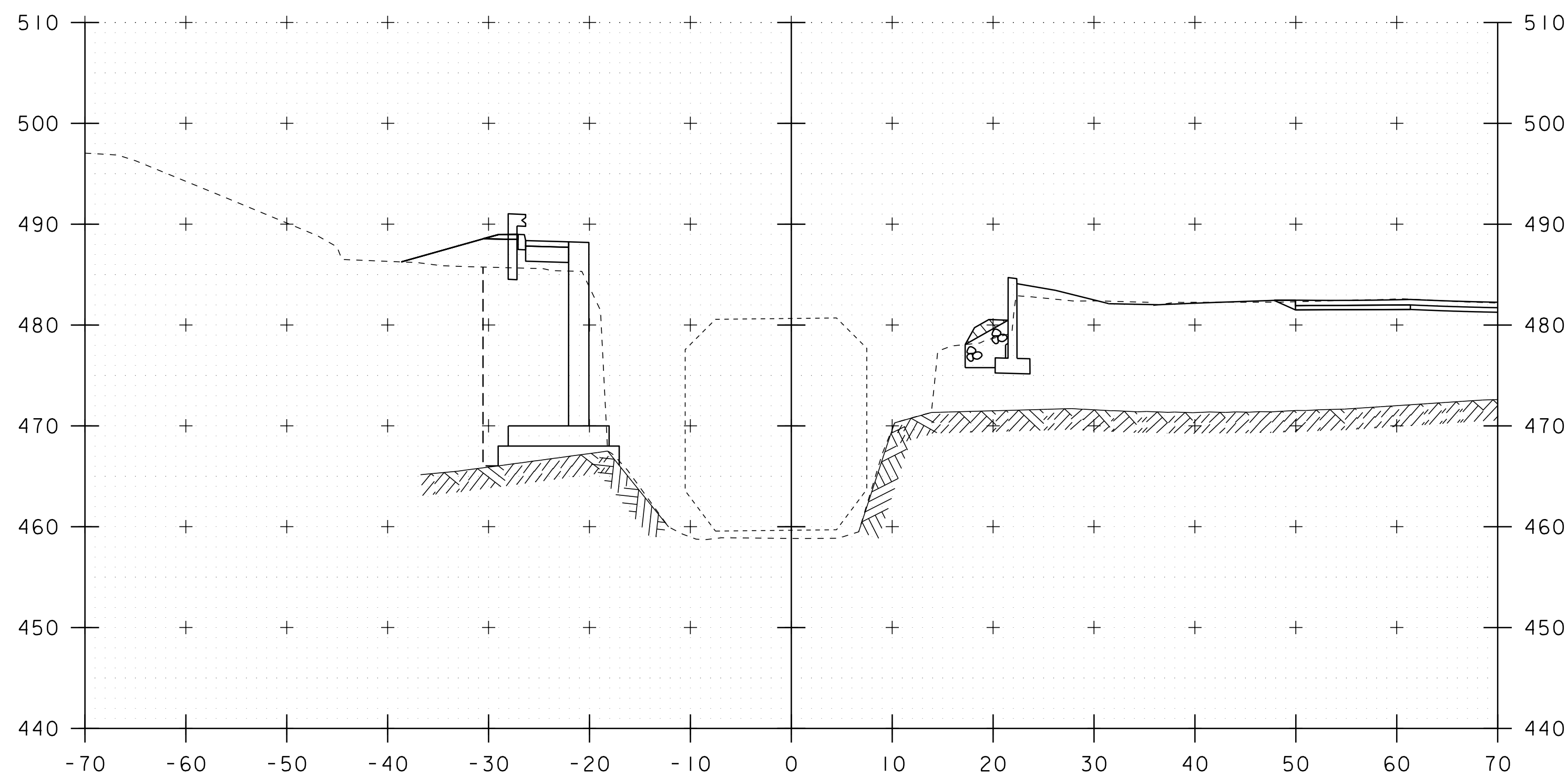
PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 31 OF 33



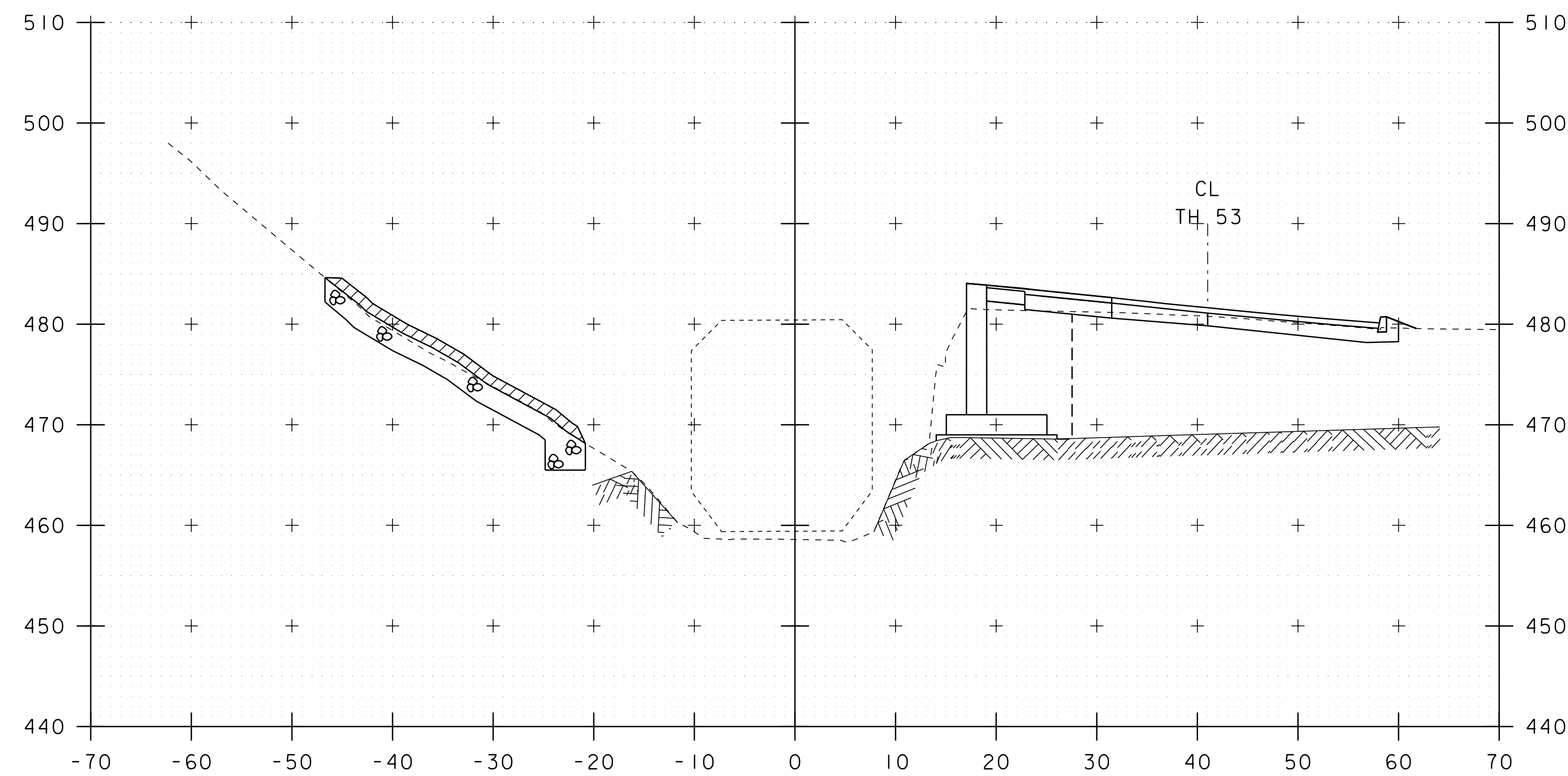
51+10



51+50



51+00



51+25

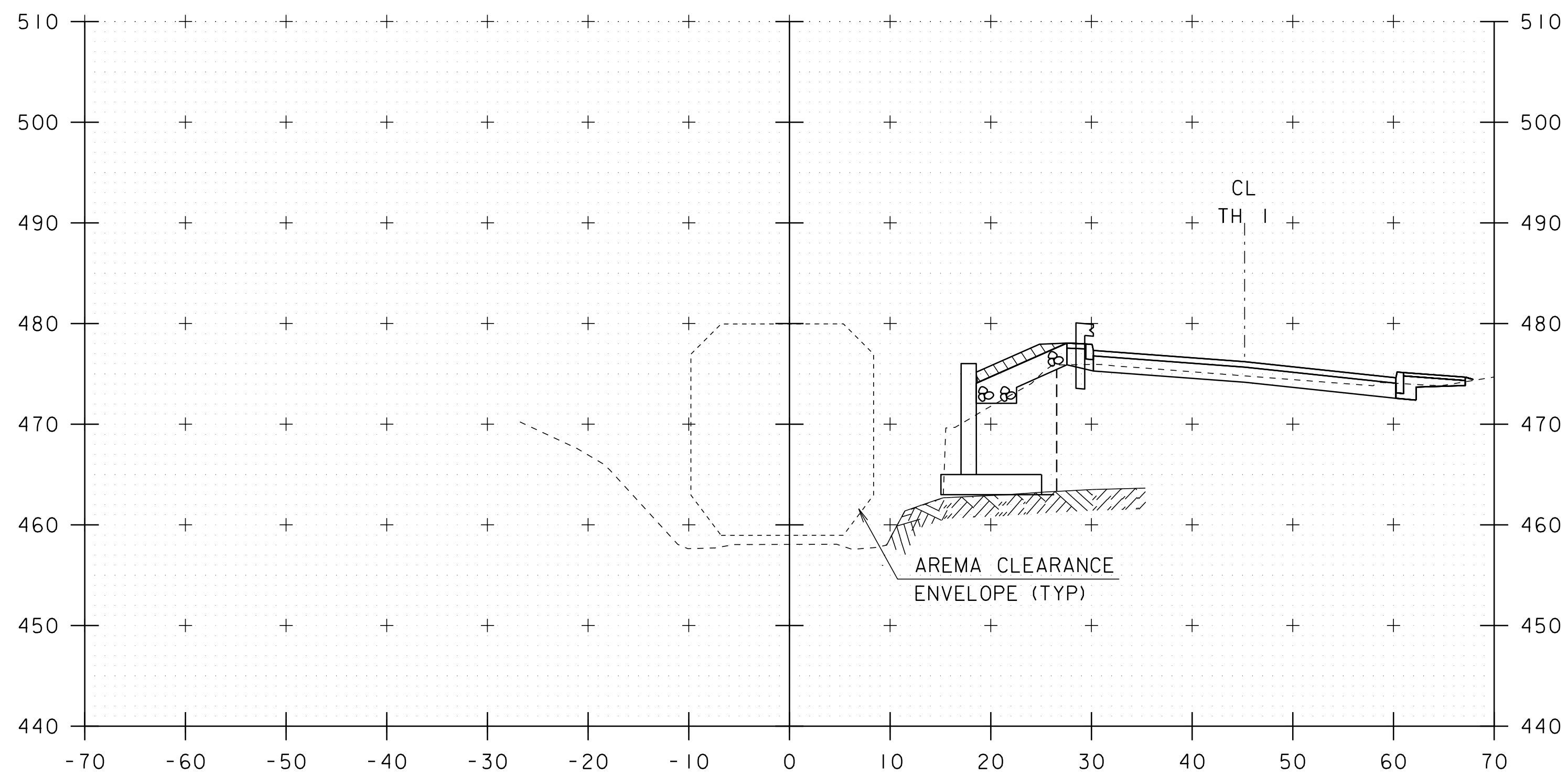
STA 51+03.00 RT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

STA 51+14.00 LT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

STA 51+27.00 LT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

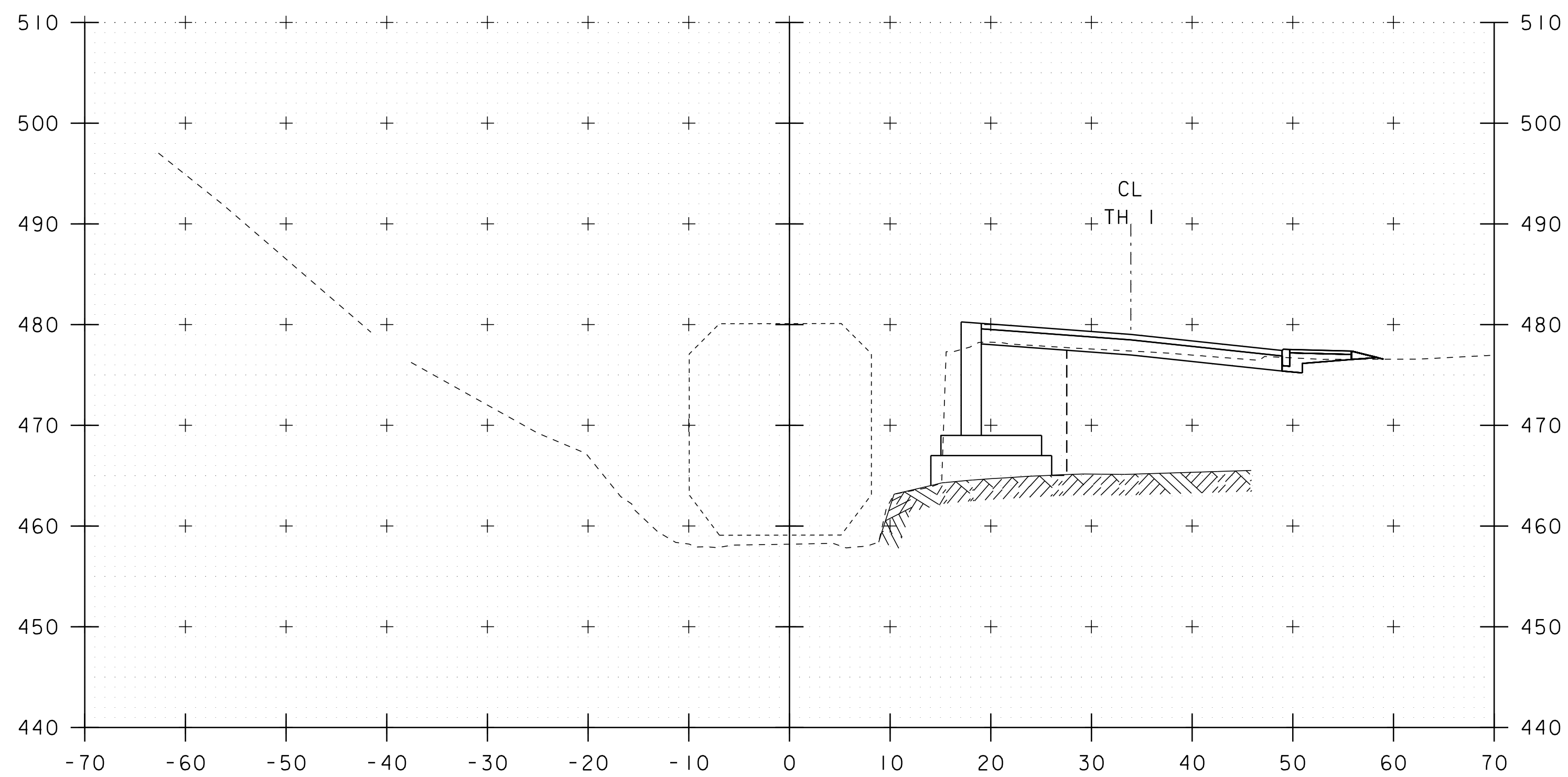
STA. 51+00 TO STA. 51+50

PROJECT NAME: PROCTOR	
PROJECT NUMBER: B0 1443(54)	
FILE NAME: sl6b003xs.dgn	PLOT DATE: 13-MAY-2019
PROJECT LEADER: C.CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: D.PETERSON	CHECKED BY: D.PETERSON
RR UNDER PASS CROSS SECTIONS 2	SHEET 32 OF 33

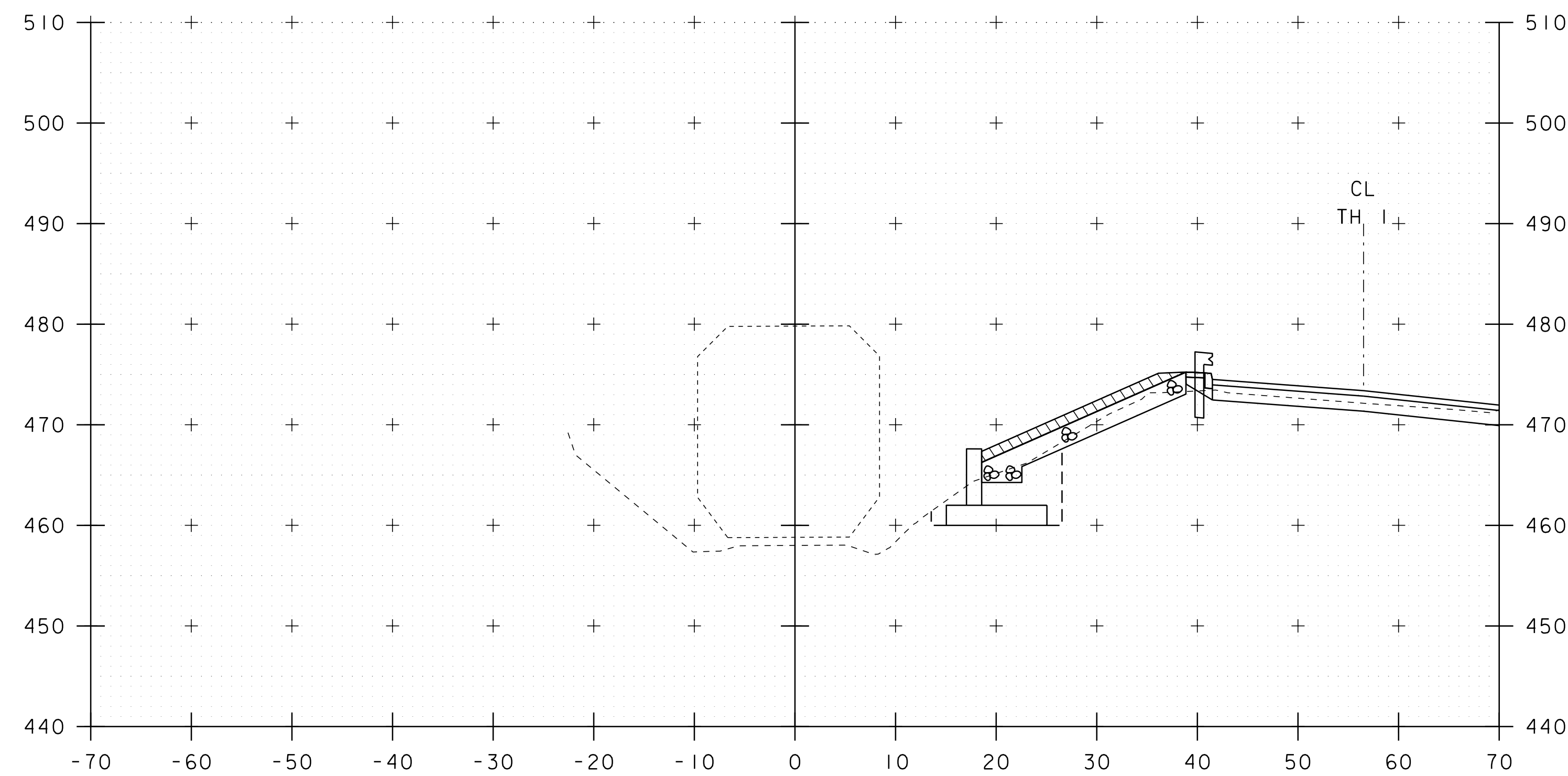


51+75

STA 51+65.00 RT  
BEGIN:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL



51+60



51+90

STA 52+42.00 RT  
END:  
UNCLASSIFIED CHANNEL EXCAVATION  
STONE FILL, TYPE II  
GEOTEXTILE FOR STONE FILL  
GRUBBING MATERIAL

STA. 51+60 TO STA. 52+00

PROJECT NAME: PROCTOR  
PROJECT NUMBER: BO 1443(54)

FILE NAME: sl6b003xs.dgn  
PROJECT LEADER: C.CARLSON  
DESIGNED BY: D.PETERSON  
RR UNDER PASS CROSS SECTIONS 3  
PLOT DATE: 13-MAY-2019  
DRAWN BY: M.LONGSTREET  
CHECKED BY: D.PETERSON  
SHEET 33 OF 33