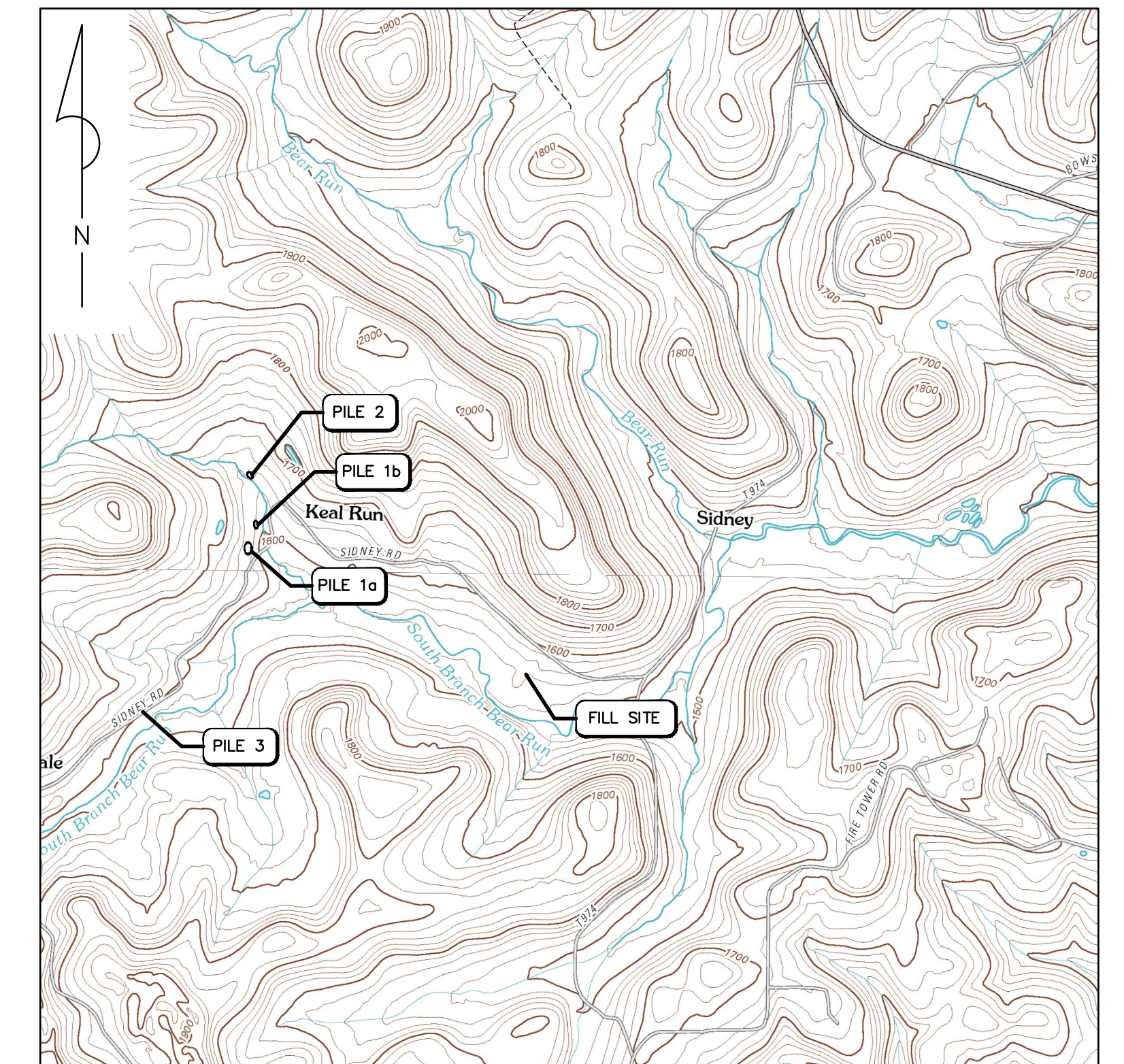


# BEAR RUN PHASE IX GROWING GREENER BANKS TOWNSHIP INDIANA COUNTY, PENNSYLVANIA

## SHEET INDEX

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
1.	COVER SHEET	22.	FILL SITE EXISTING CONDITIONS PLAN
2.	PILE 1A EXISTING CONDITIONS PLAN	23.	FILL SITE SITE PLAN
3.	PILE 1A GRADING PLAN	24.	FILL SITE GRADING PLAN
4.	PILE 1A PROFILE PILE	25.	FILL SITE CROSS SECTION PLAN
5.	PILE 1A CROSS SECTIONS	26.	FILL SITE PROFILE
6.	PILE 1A CROSS SECTIONS	27.	FILL SITE CROSS SECTIONS
7.	PILE 1A CROSS SECTIONS	28.	FILL SITE CROSS SECTIONS
8.	PILE 1B EXISTING CONDITIONS PLAN	29.	FILL SITE CROSS SECTIONS
9.	PILE 1B GRADING PLAN	30.	FILL SITE CROSS SECTIONS
10.	PILE 1B PROFILE	31.	FILL SITE CROSS SECTIONS
11.	PILE 1B CROSS SECTIONS	32.	FILL SITE CROSS SECTIONS
12.	PILE 1B CROSS SECTIONS	33.	FILL SITE CROSS SECTIONS
13.	PILE 1B CROSS SECTIONS	34.	FILL SITE CROSS SECTIONS
14.	PILE 2 EXISTING CONDITIONS PLAN	35.	FILL SITE CROSS SECTIONS
15.	PILE 2 GRADING PLAN	36.	FILL SITE CROSS SECTIONS
16.	PILE 2 PROFILE	37.	FILL SITE CROSS SECTIONS
17.	PILE 2 CROSS SECTIONS	38.	FILL SITE CROSS SECTIONS
18.	PILE 2 CROSS SECTIONS	39.	CONSTRUCTION DETAILS
19.	PILE 3 EXISTING CONDITIONS PLAN		
20.	PILE 3 GRADING PLAN		
21.	PILE 3 CROSS SECTIONS		



LOCATION MAP  
Scale: 1"=2000'

Base Surface	Comparison Surface	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)	
Ex. Ground	Pile 1a	3121.05	36.78	3084.27	
Ex. Ground	Pile 1b	3077.73	21.23	3056.50	
Ex. Ground	Pile 2	10728.92	0.49	10728.43	
Ex. Ground	Pile 3	1792.10	0.00	1792.10	
Ex. Ground Fill Site		Proposed Fill Material	450.39	50014.26	49563.88
Proposed Fill Material		Clay Fill Cap	0.00	6277.30	6277.30

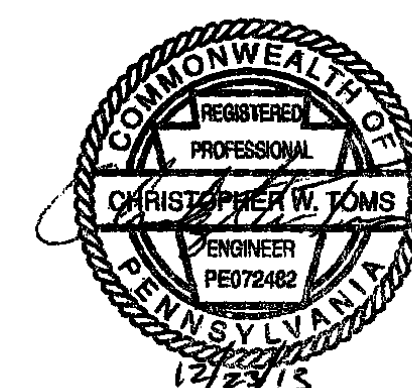
*Sponsored By*

INDIANA COUNTY CONSERVATION DISTRICT  
PENNSYLVANIA STATE GAME COMMISSION  
SUSQUEHANNA RIVER BASIN COMMISSION  
PA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BANKS TOWNSHIP SUPERVISORS

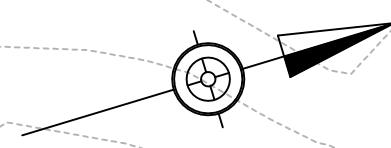
SURVEY NOTES:

SURVEY WAS PERFORMED NOVEMBER 20, 2013 THROUGH NOVEMBER 22, 2013.

PA STATE PLANE COORDINATES, SOUTH ZONE 3702, HORIZONTAL DATUM NAD 83 AND VERTICAL DATUM NAVD 88.

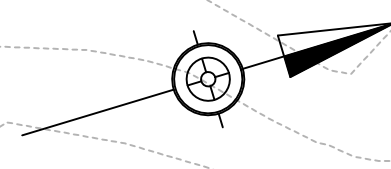


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DRAWN BY: MPA	COVER SHEET	551050200_C
SCALE:		FILE NUMBER 5510.5.02.00
DATE: 12/20/2013	BEAR RUN PHASE IX	SHEET 1 OF 39



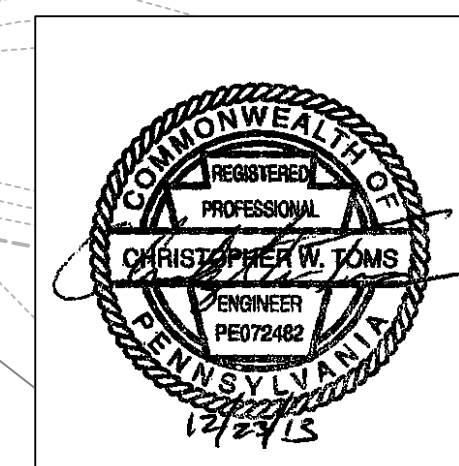
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DRAWN BY: MPA		FILE NUMBER 5510.5.02.00
SCALE: 1"=20'		SHEET 2 OF 39
DATE: 12/20/2013		

R:\551050200.dwg \civil\551050200\_F.dwg - 1/10/2014 3:47:18 PM



NOTE:  
INSTALL EROSION CONTROL MATTING IN  
ALL AREAS GRADED STEEPER THEN 3:1.

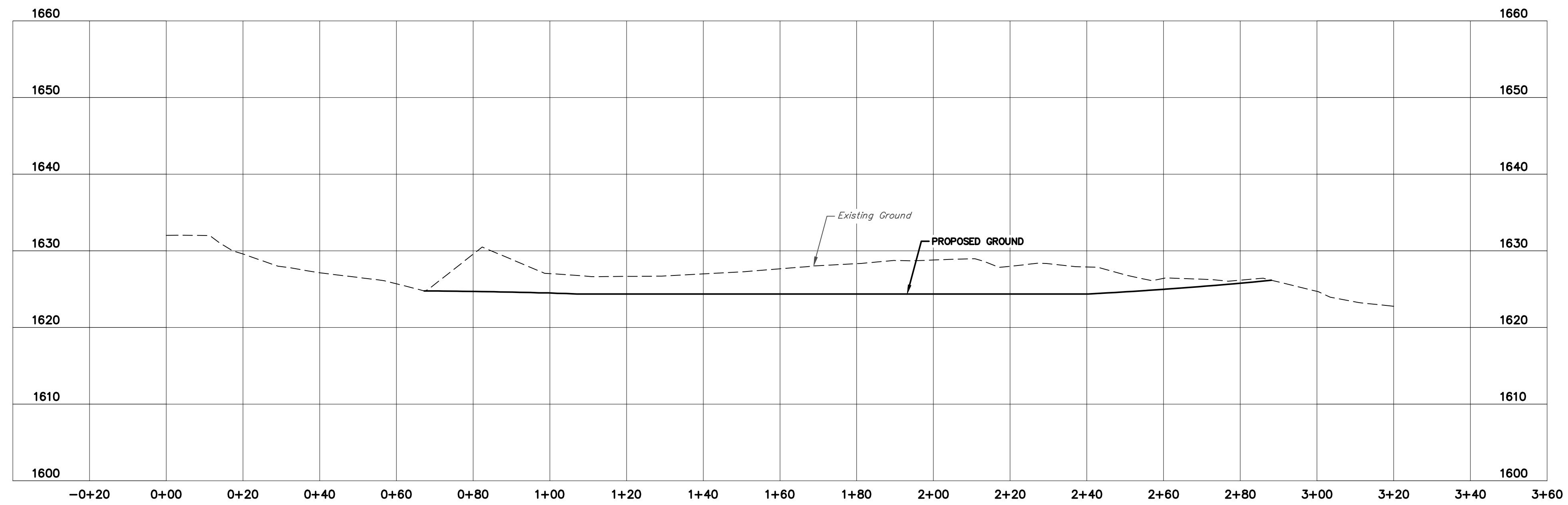
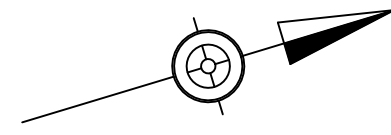
 ANTICIPATED MATTING  
PLACEMENT LOCATIONS



DESIGNED:  
  
DRAWN BY:  
MPA  
SCALE:  
1" = 20'  
DATE:  
12/20/2013

TITLE OF SHEET  
**PILE 1A  
GRADING PLAN**  
  
BEAR RUN PHASE IX

DRAWING NO.  
551050200\_A  
  
FILE NUMBER  
5510.5.02.00  
  
SHEET  
3 OF 39

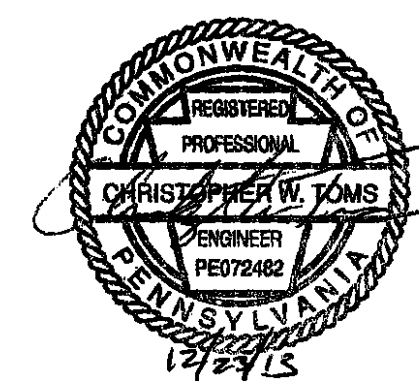
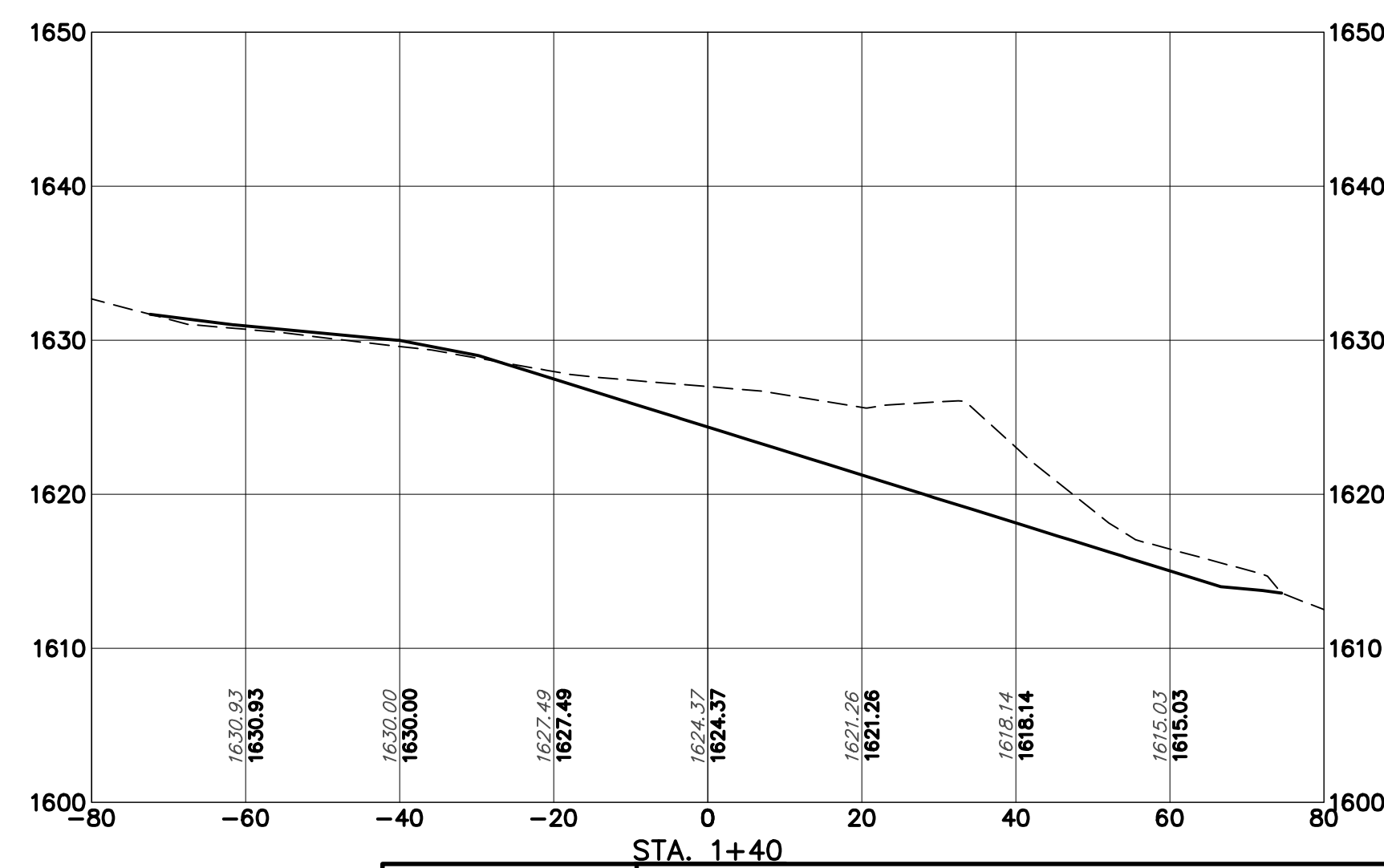
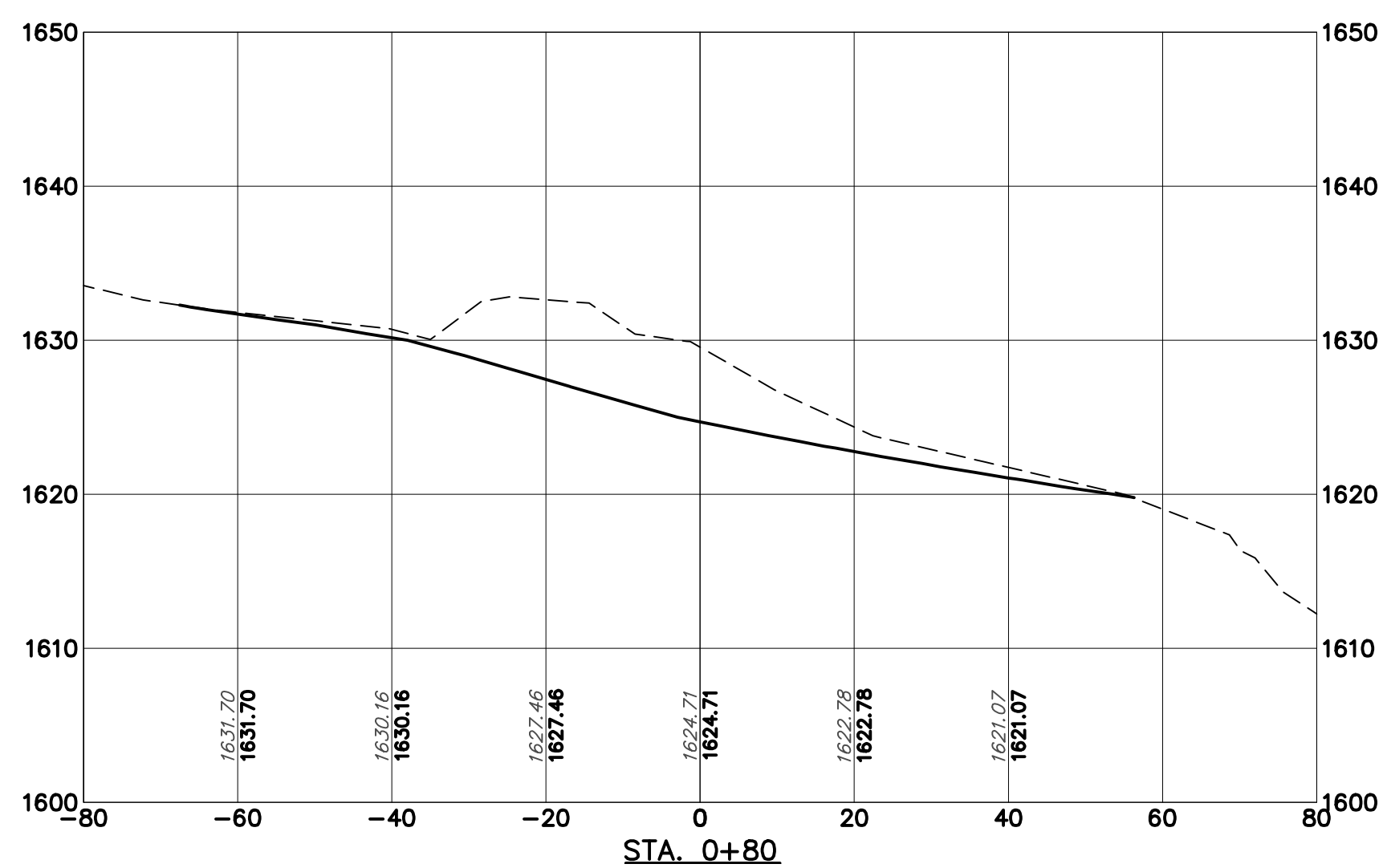
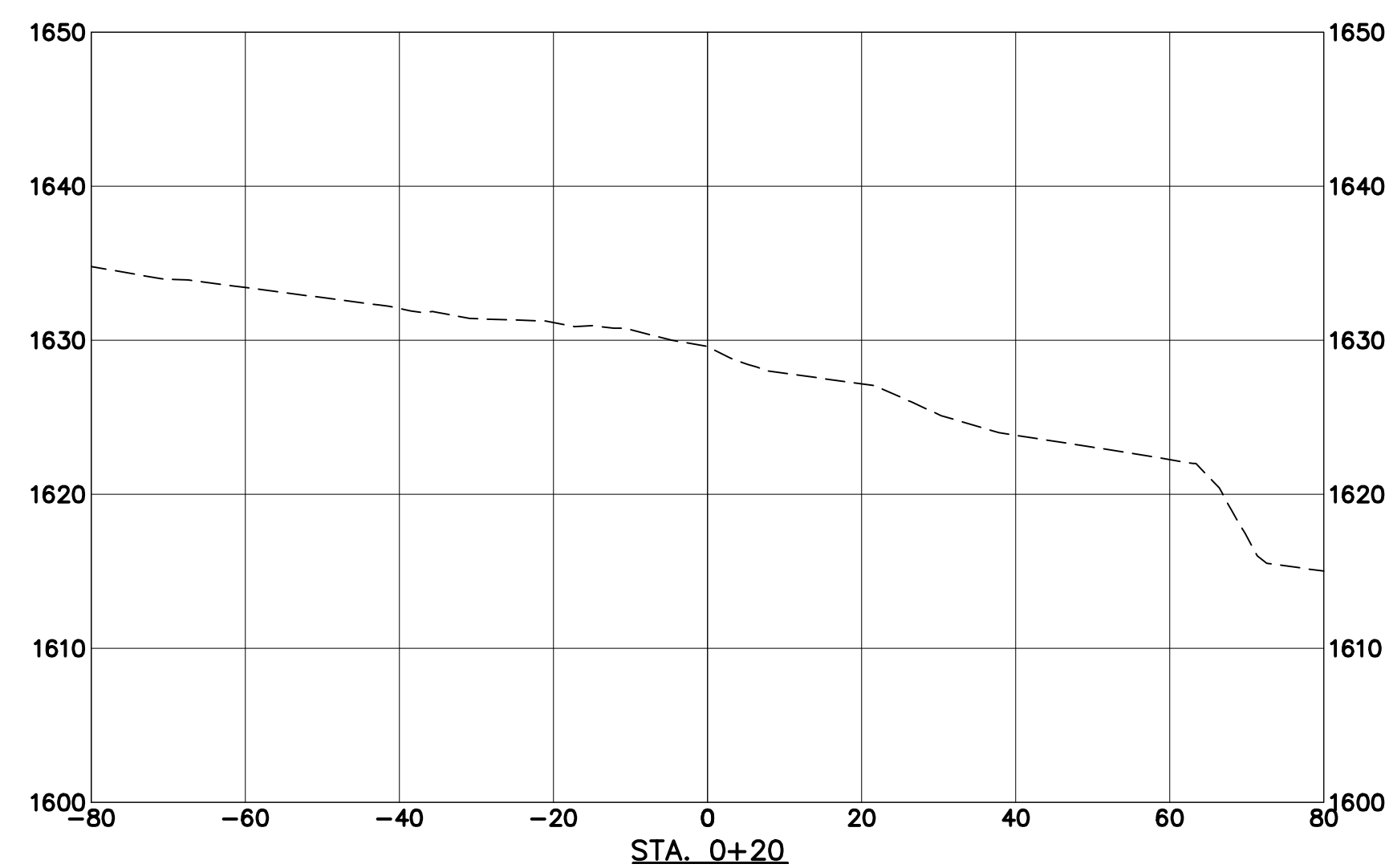
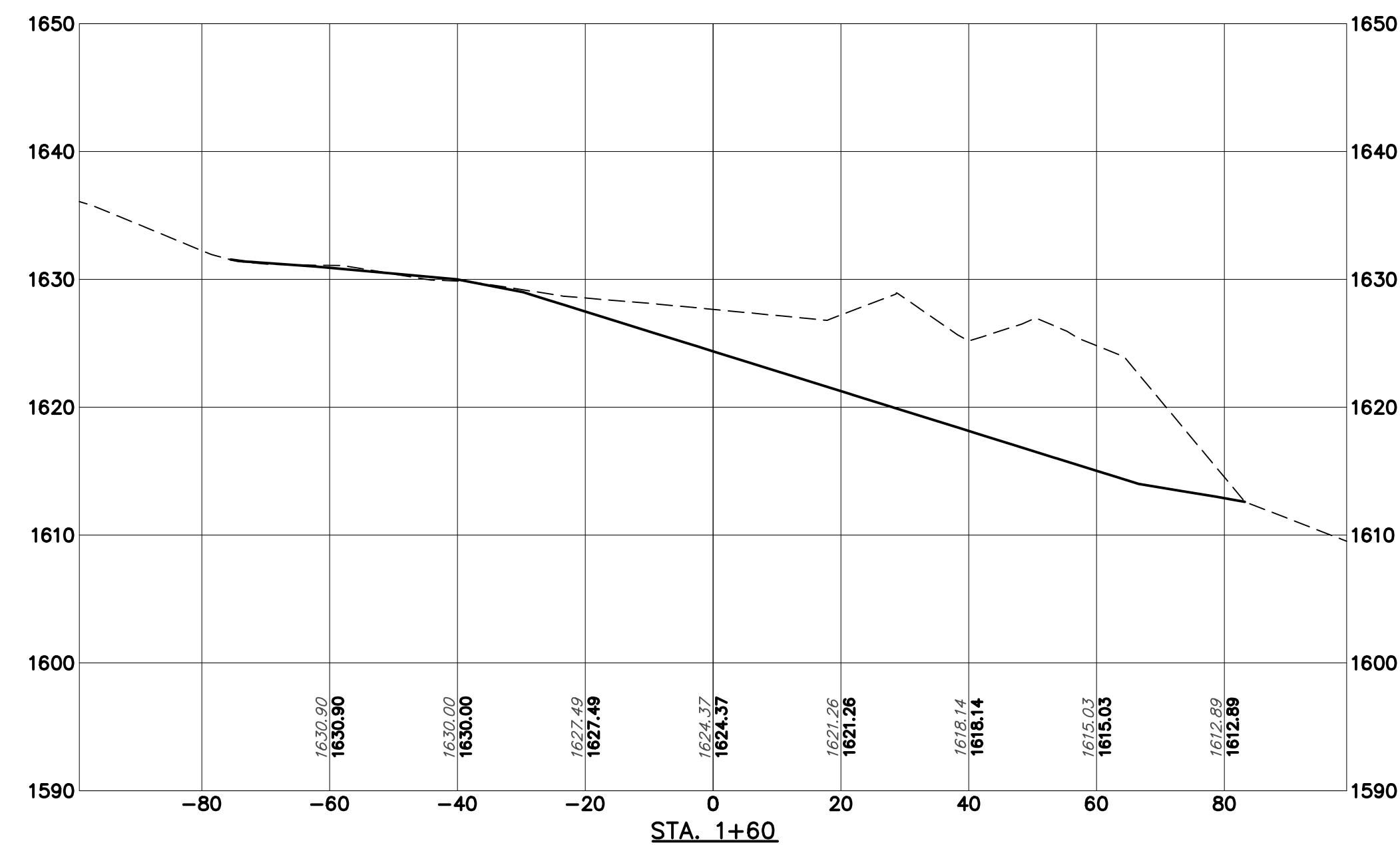
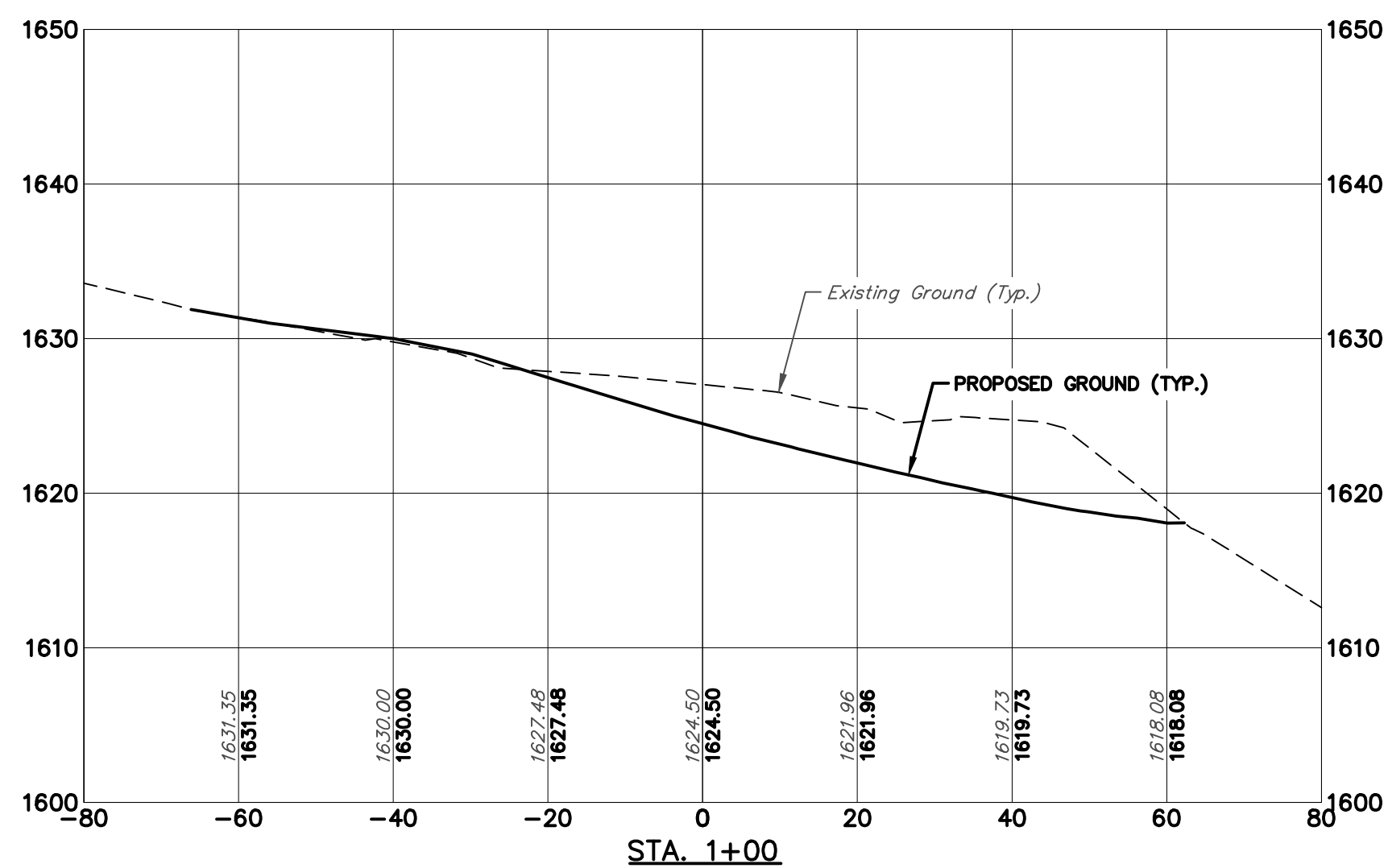
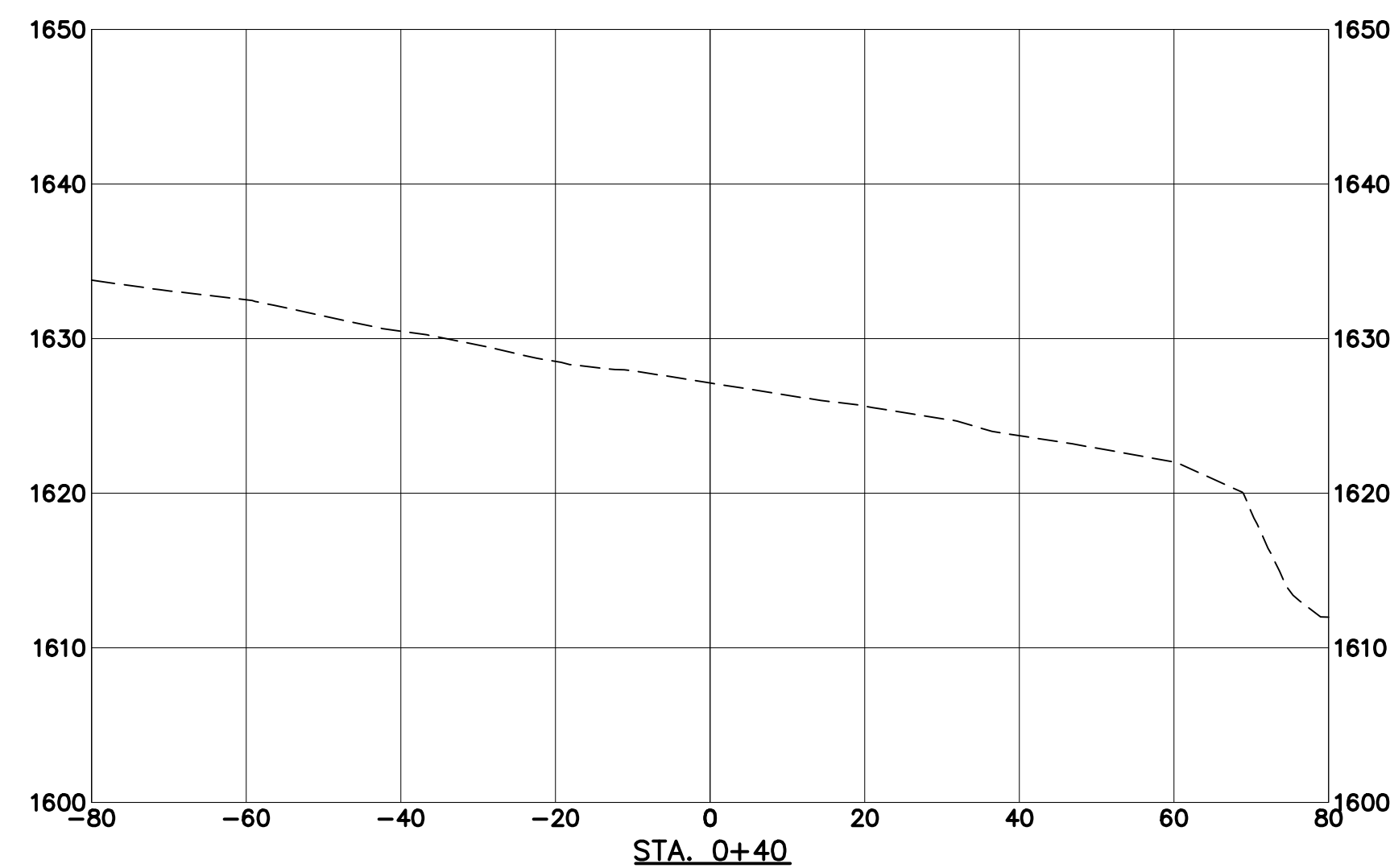
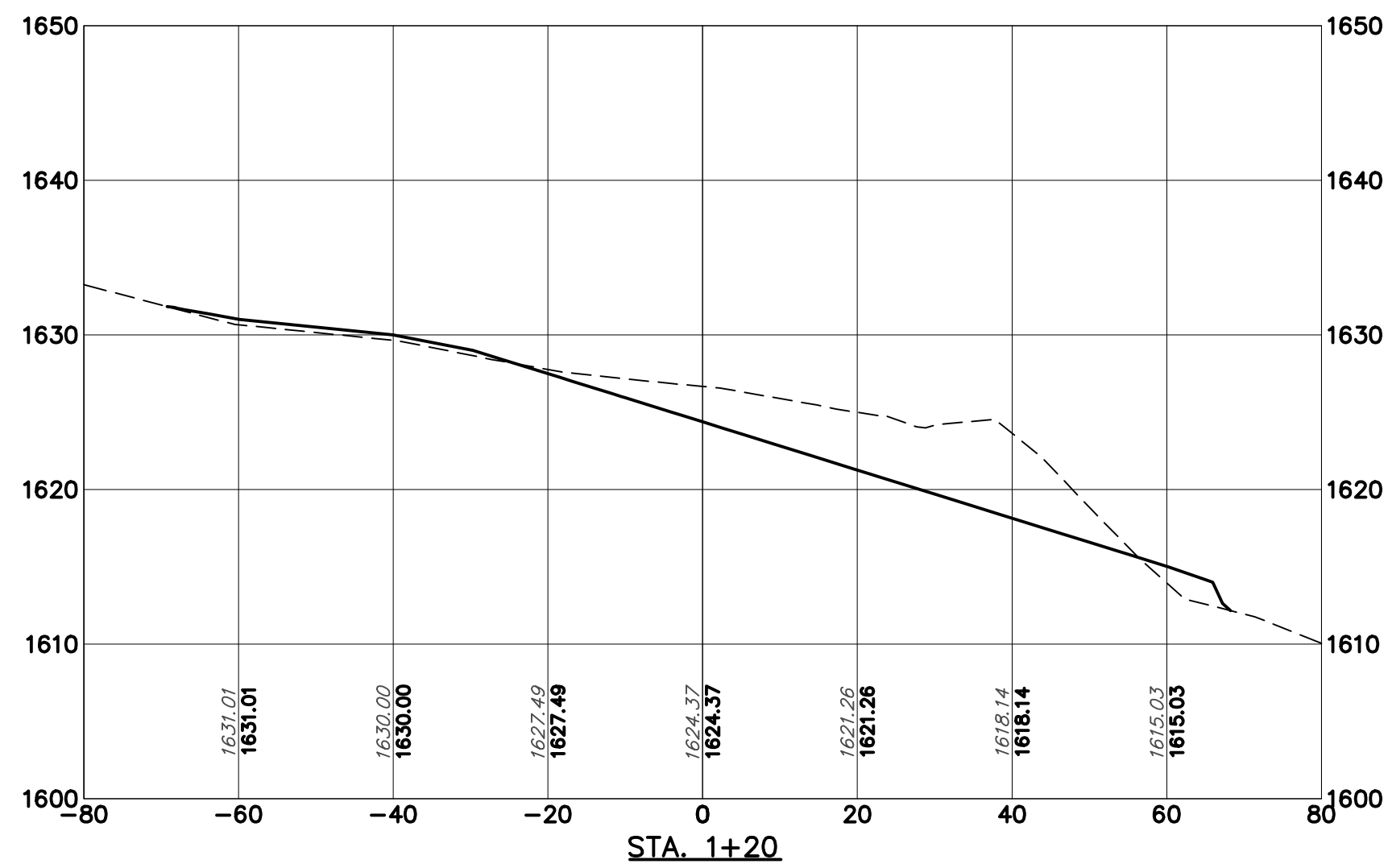
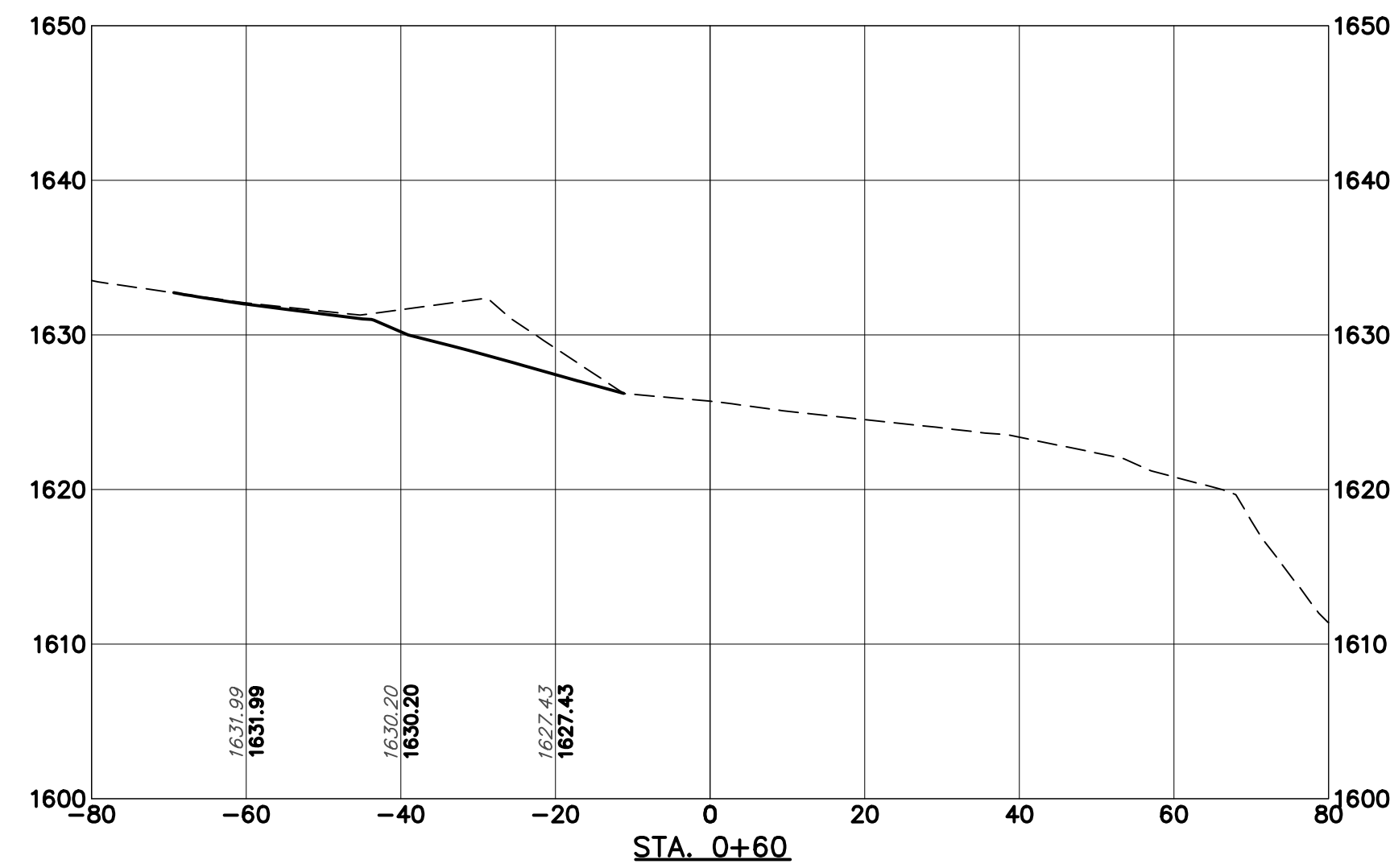


**SITE 1A - PROFILE**

H: 1" = 20'  
V: 1" = 10'

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	SCALE: AS SHOWN		SHEET 4 OF 39
	DATE: 12/20/2013		

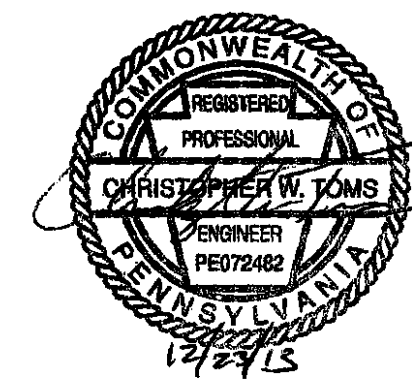
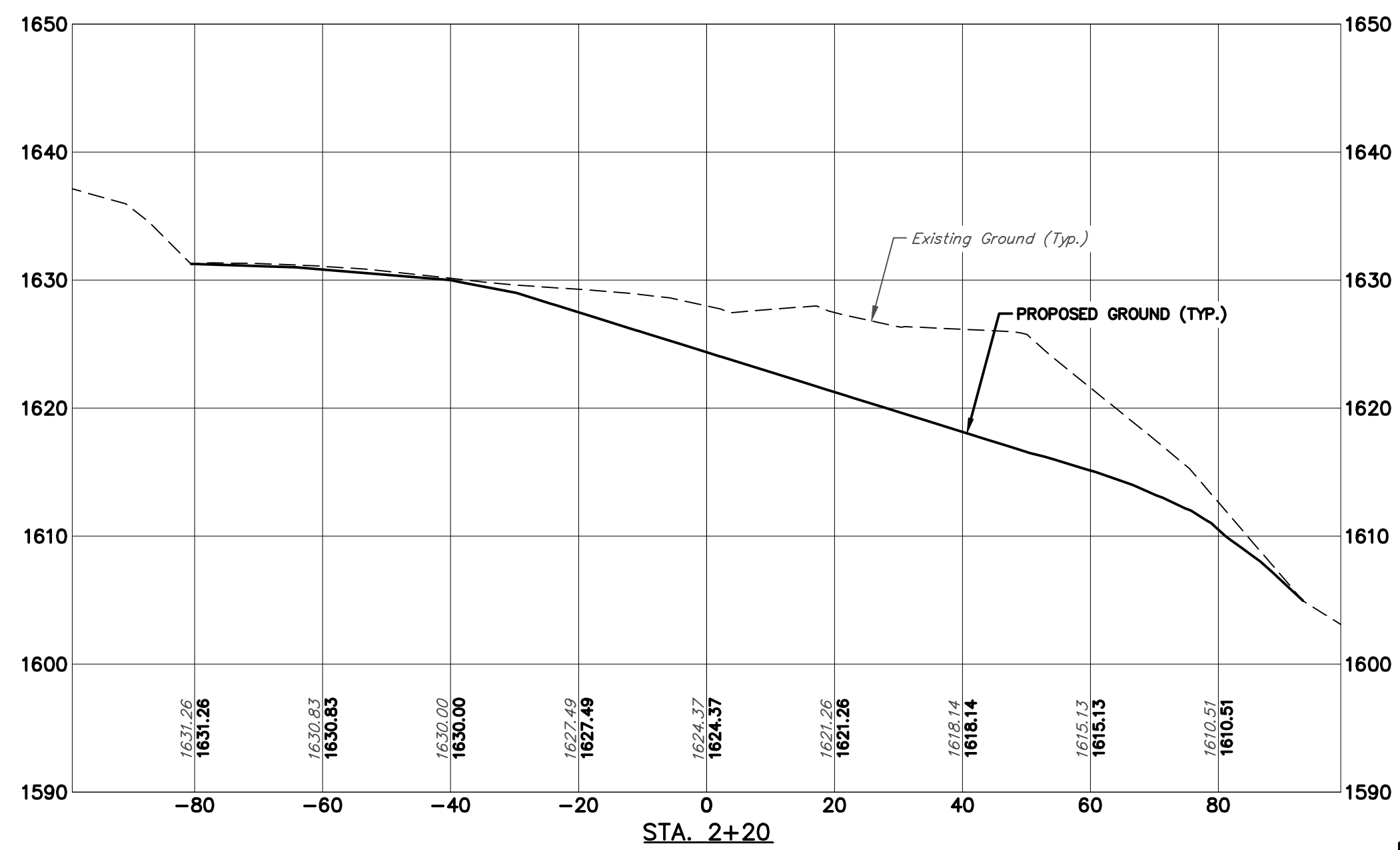
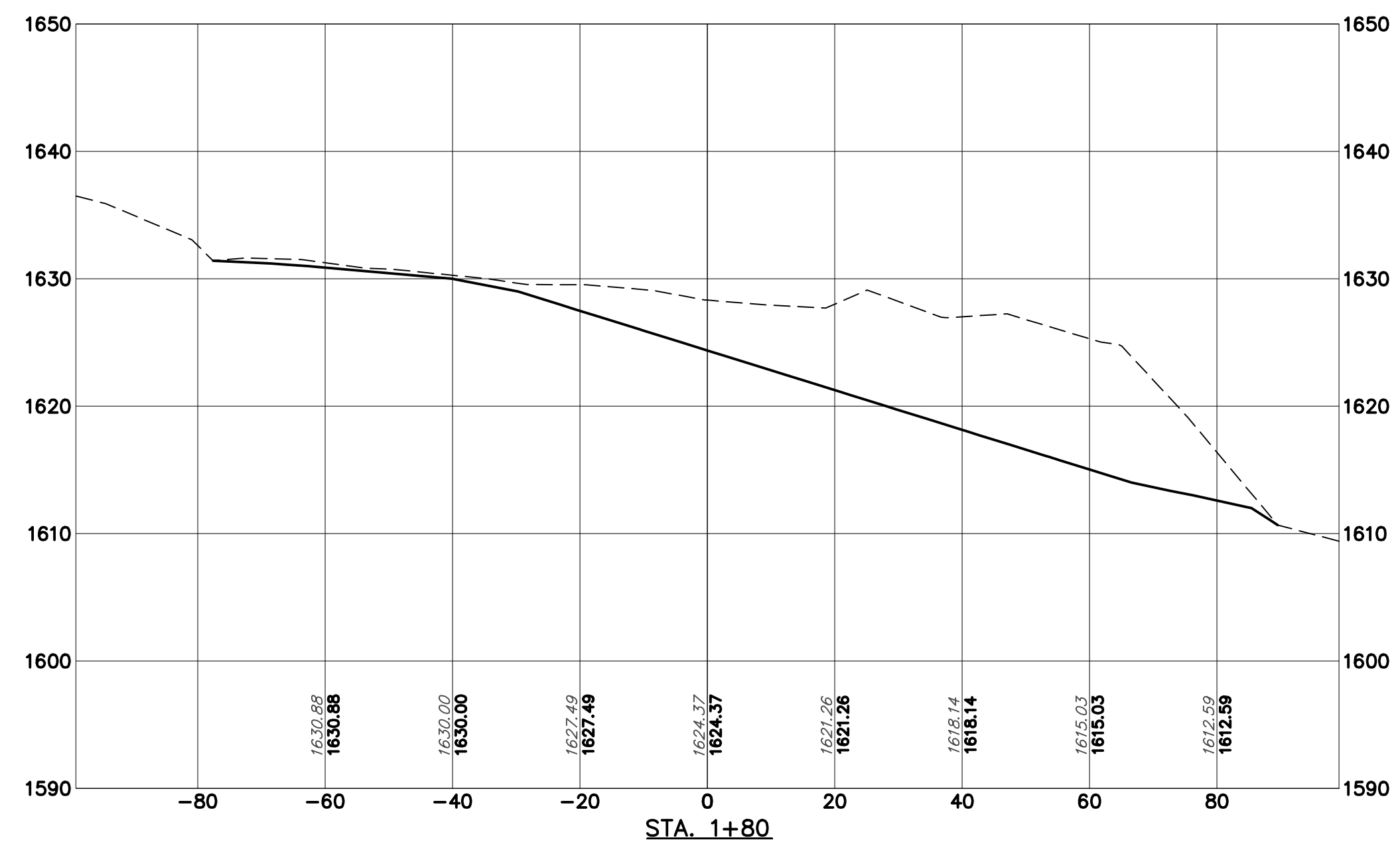
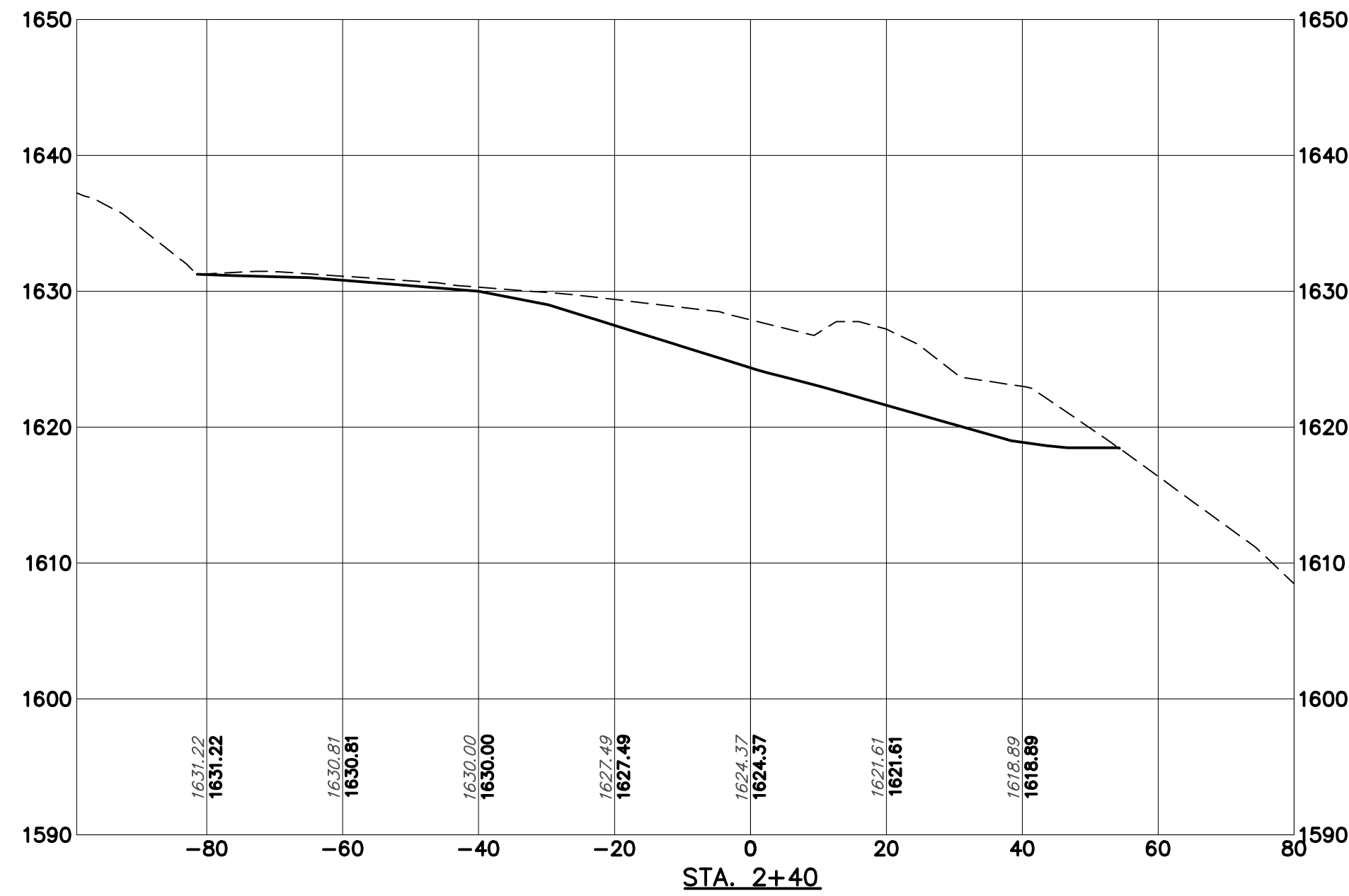
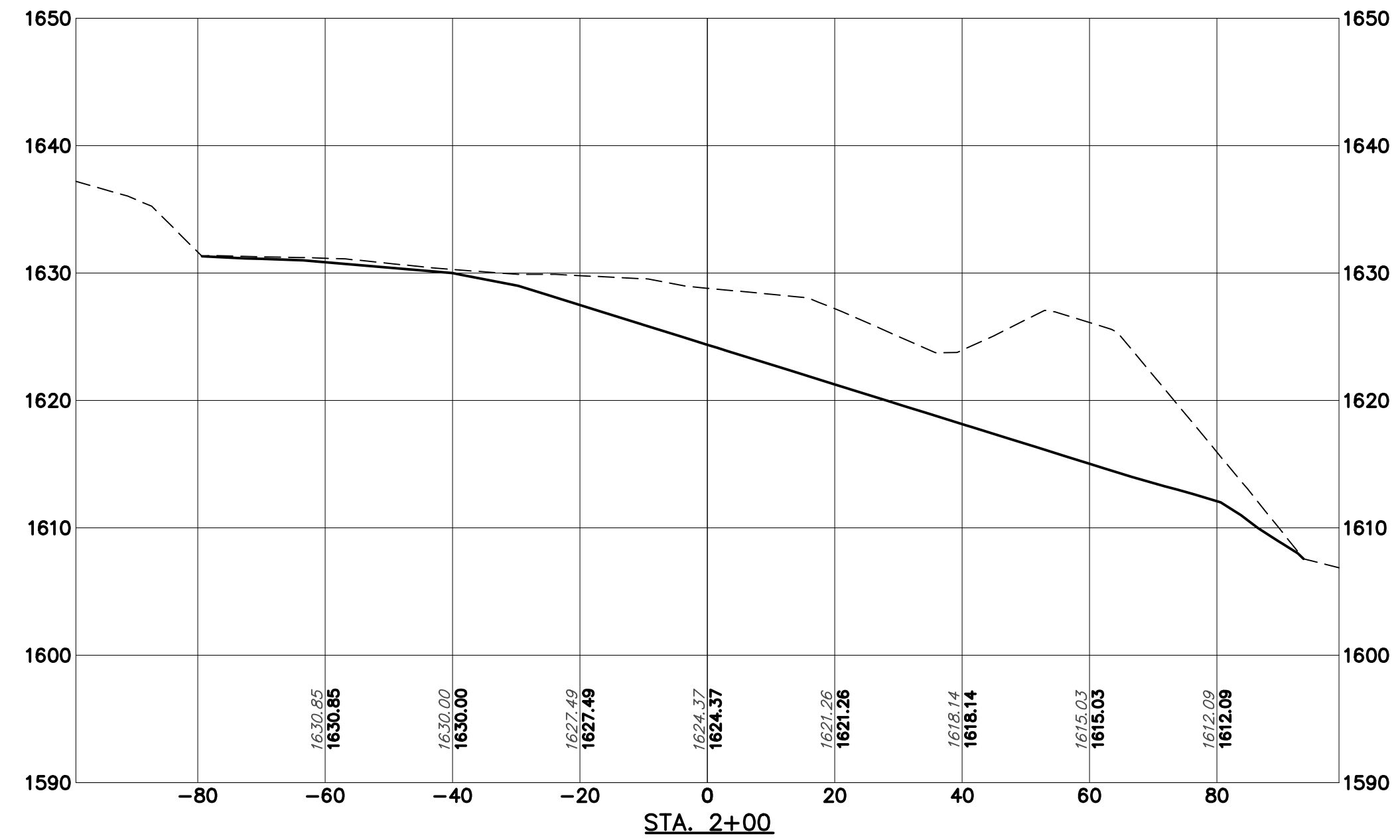
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DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE:  
 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**PILE 1A  
 CROSS SECTIONS**  
 BEAR RUN PHASE IX

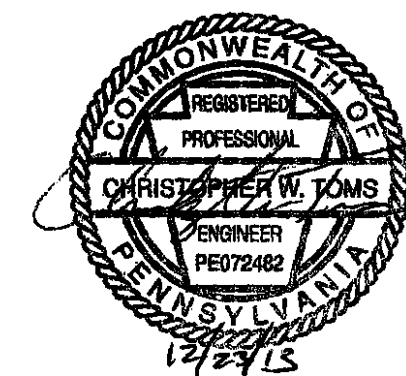
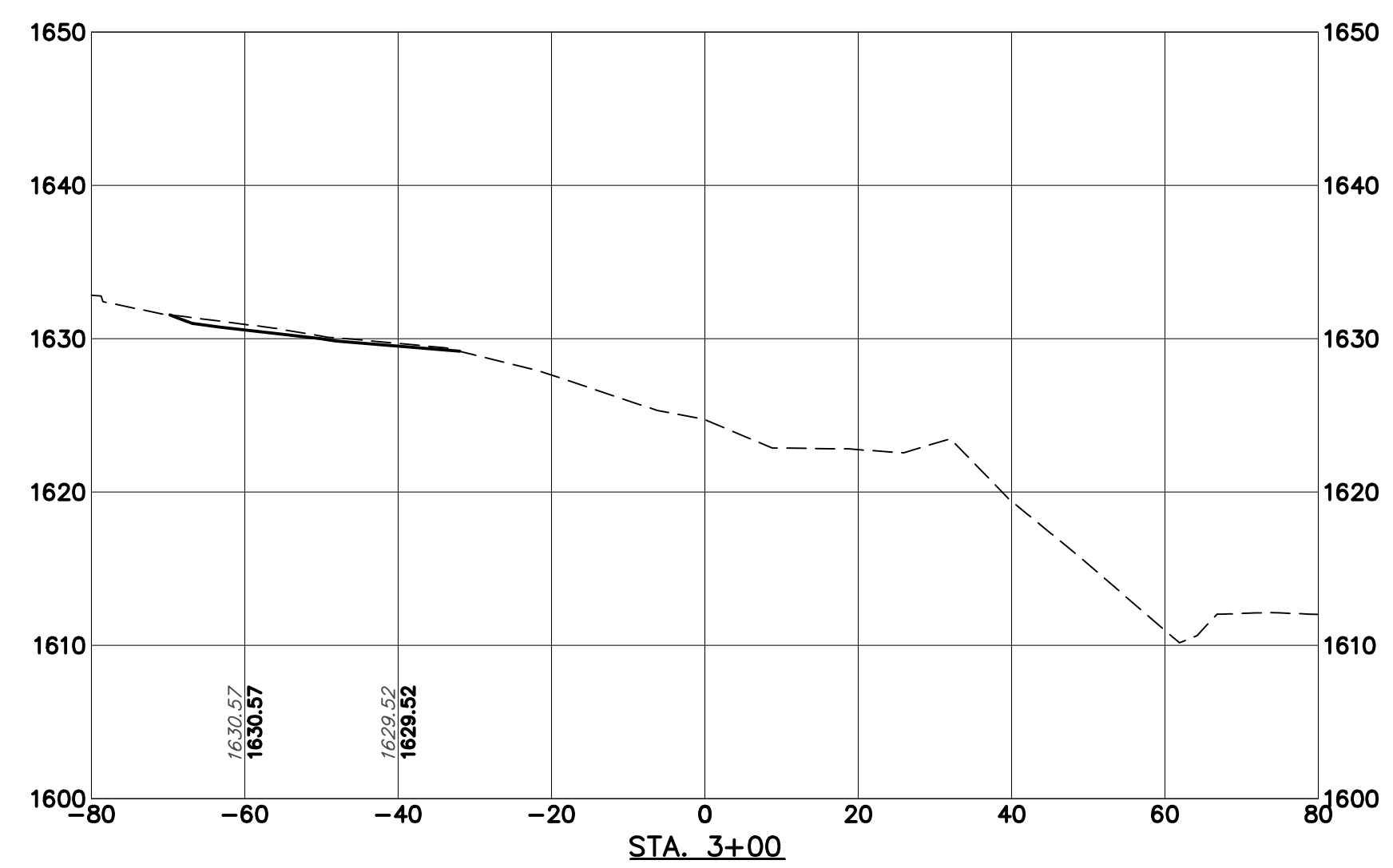
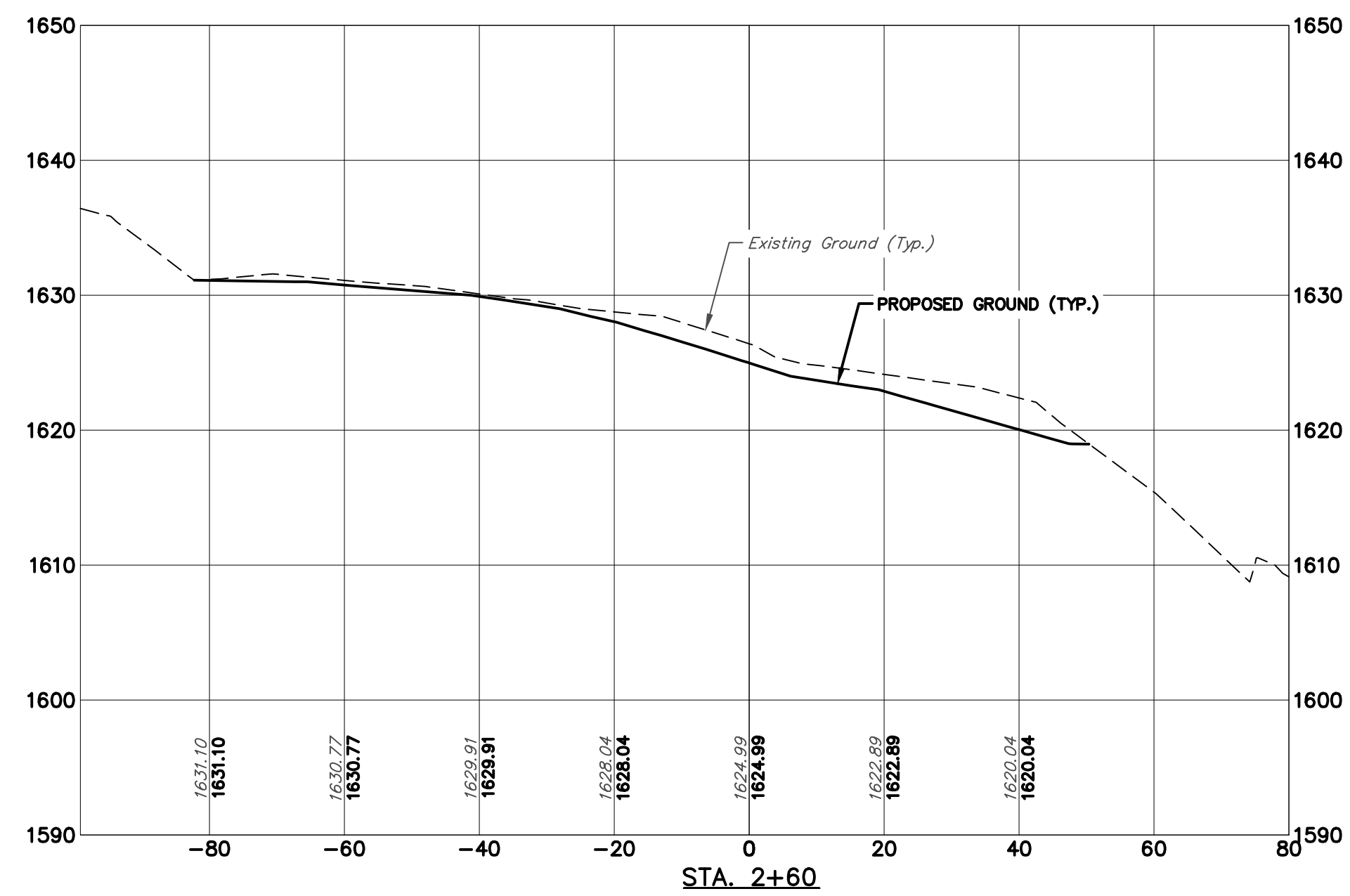
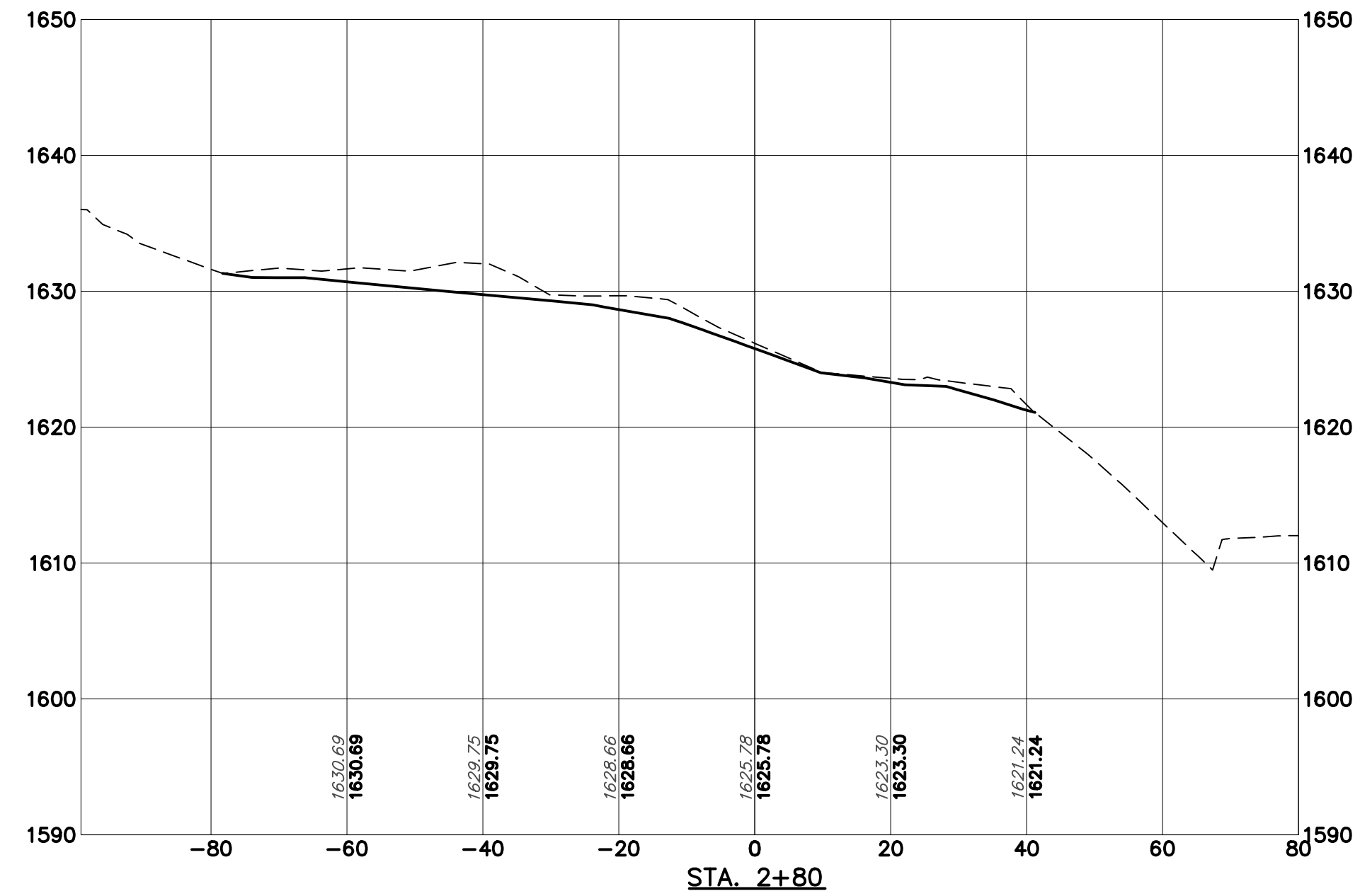
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 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 5 OF 39



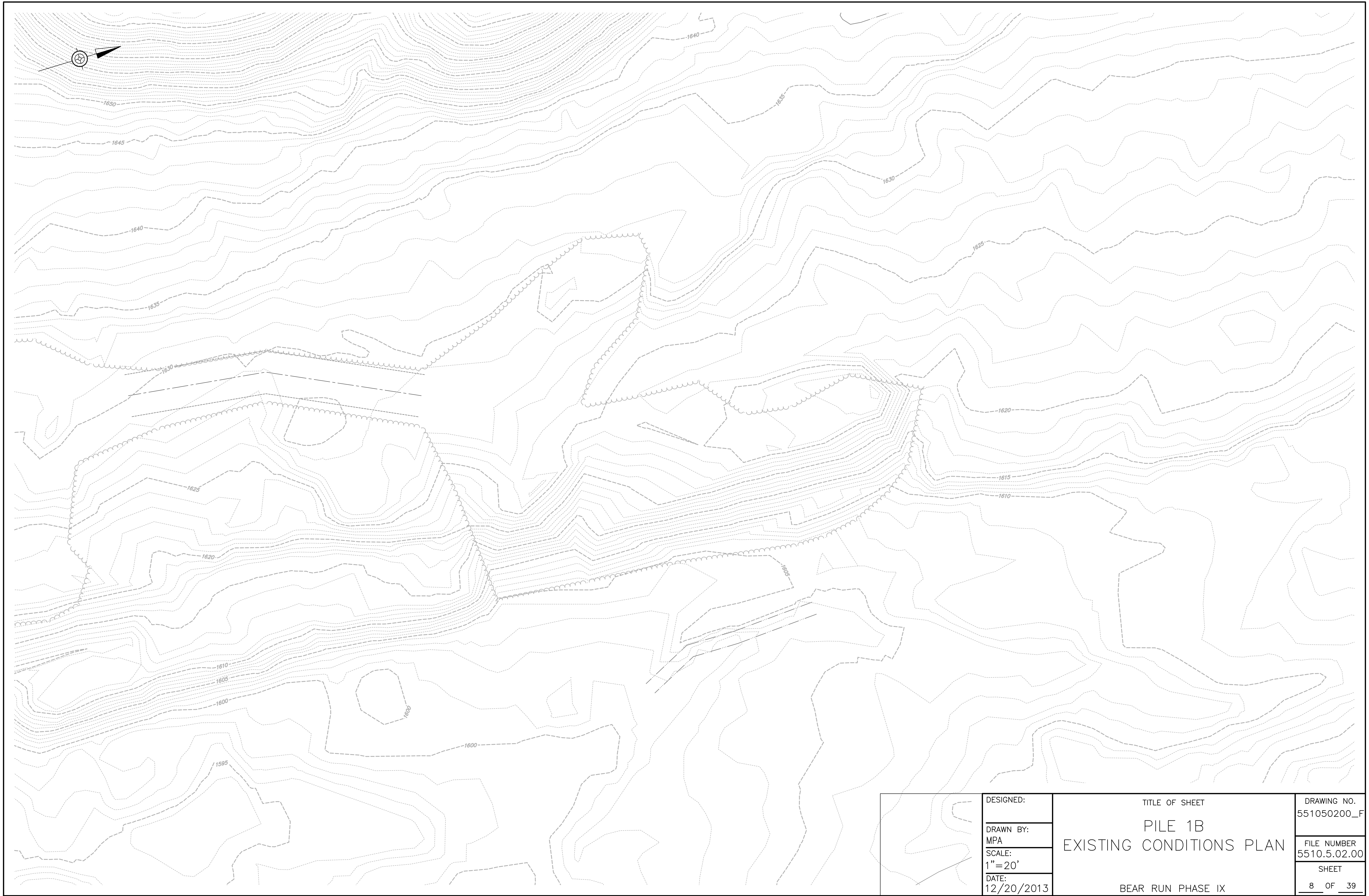
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 SCALE: 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**PILE 1A  
 CROSS SECTIONS**  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 6 OF 39

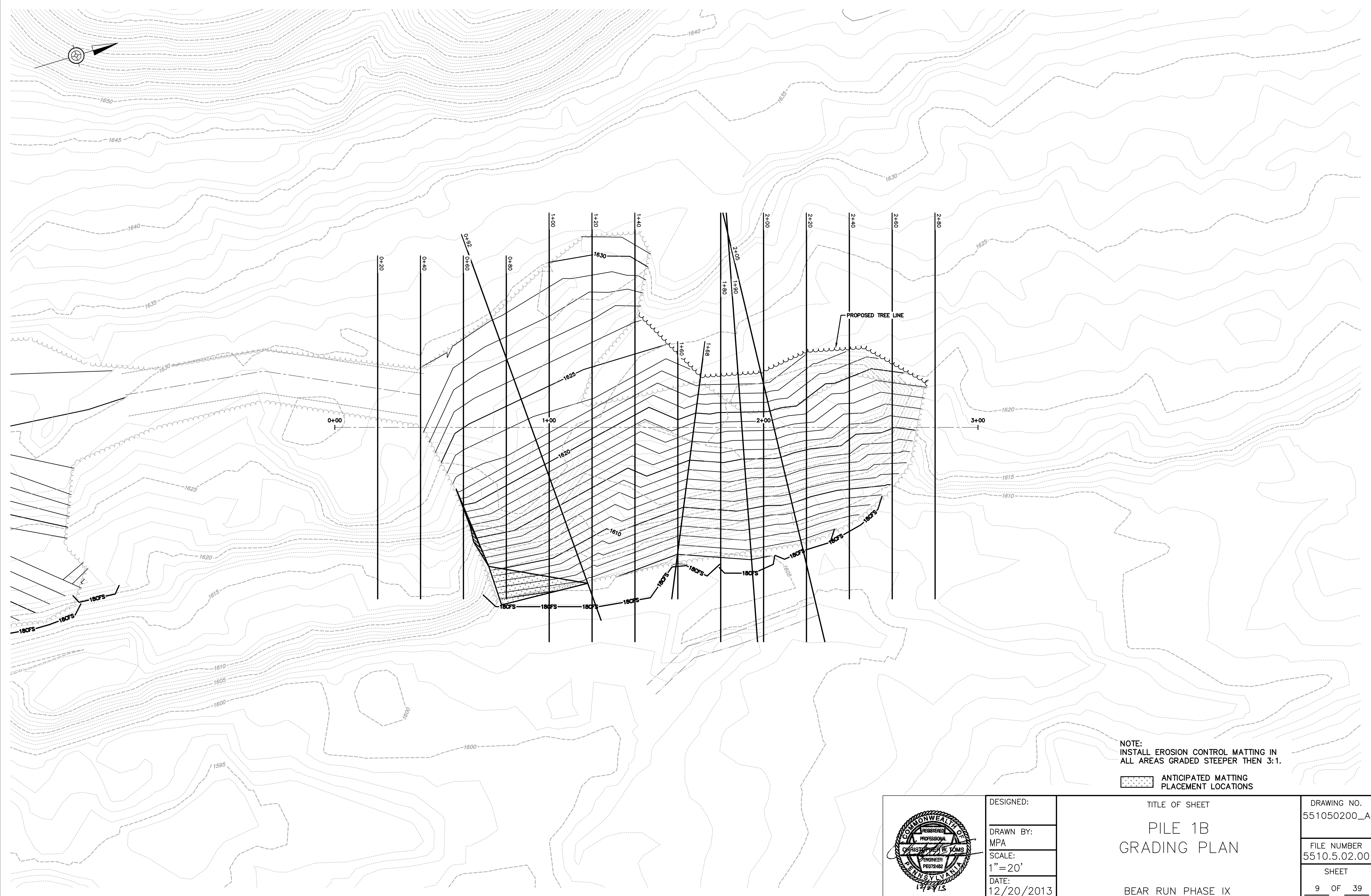


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SCALE: 1"=20' H 1"=10' V		SHEET 7 OF 39
DATE: 12/20/2013		



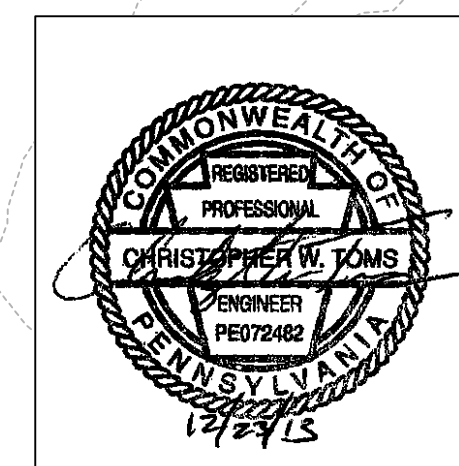
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	SCALE:		FILE NUMBER
	DATE:		5510.5.02.00
12/20/2013		BEAR RUN PHASE IX	SHEET
			8 OF 39





NOTE:  
INSTALL EROSION CONTROL MATTING IN  
ALL AREAS GRADED STEEPER THEN 3:1.

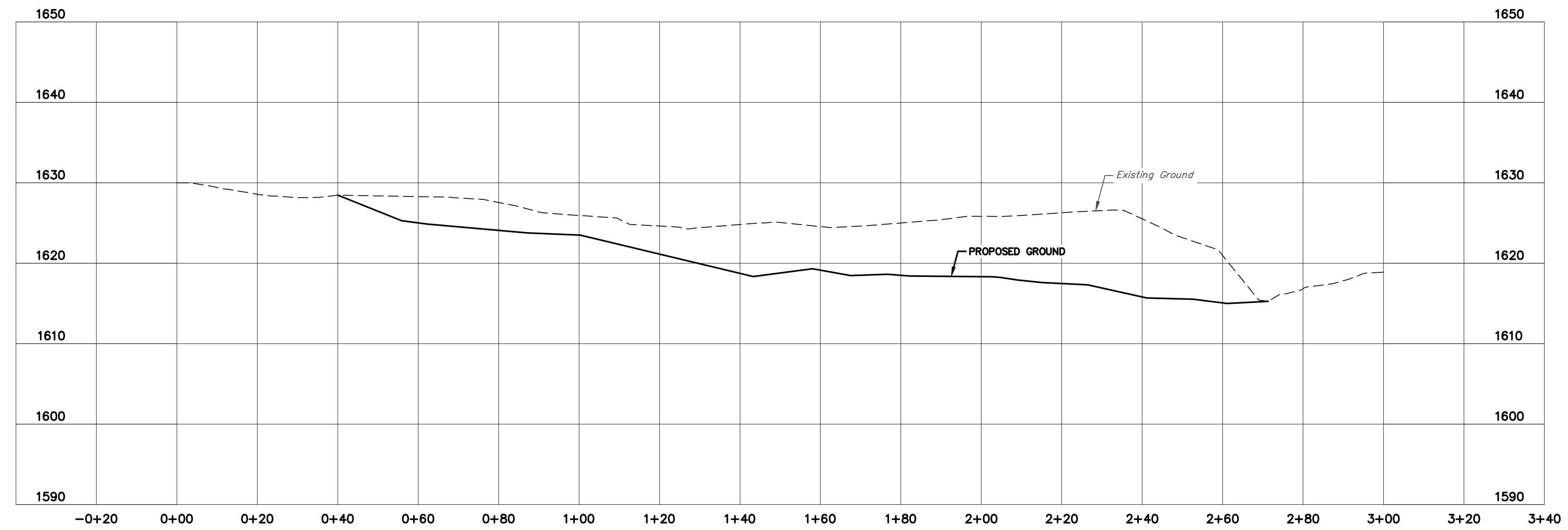
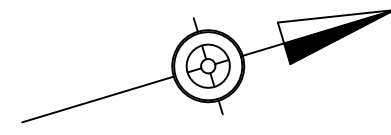
 ANTICIPATED MATTING  
PLACEMENT LOCATIONS



DESIGNED:  
  
DRAWN BY:  
MPA  
SCALE:  
1"=20'  
DATE:  
12/20/2013

TITLE OF SHEET  
**PILE 1B  
GRADING PLAN**  
  
BEAR RUN PHASE IX

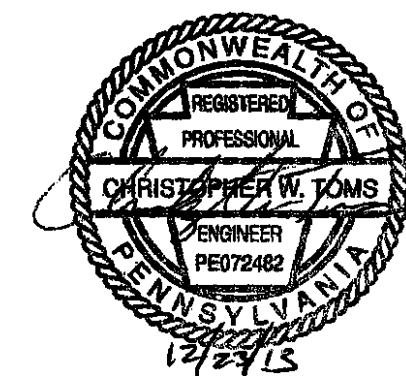
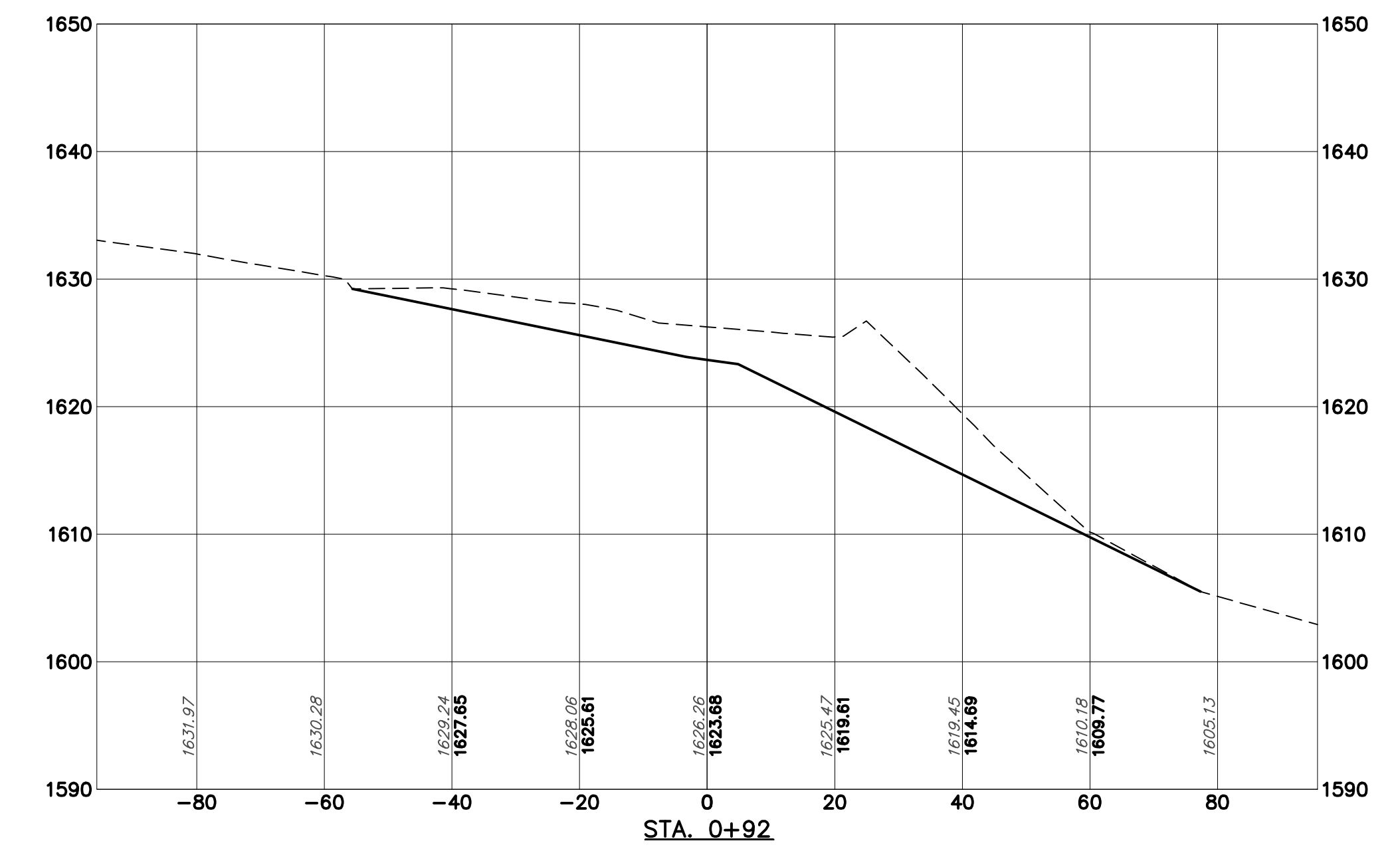
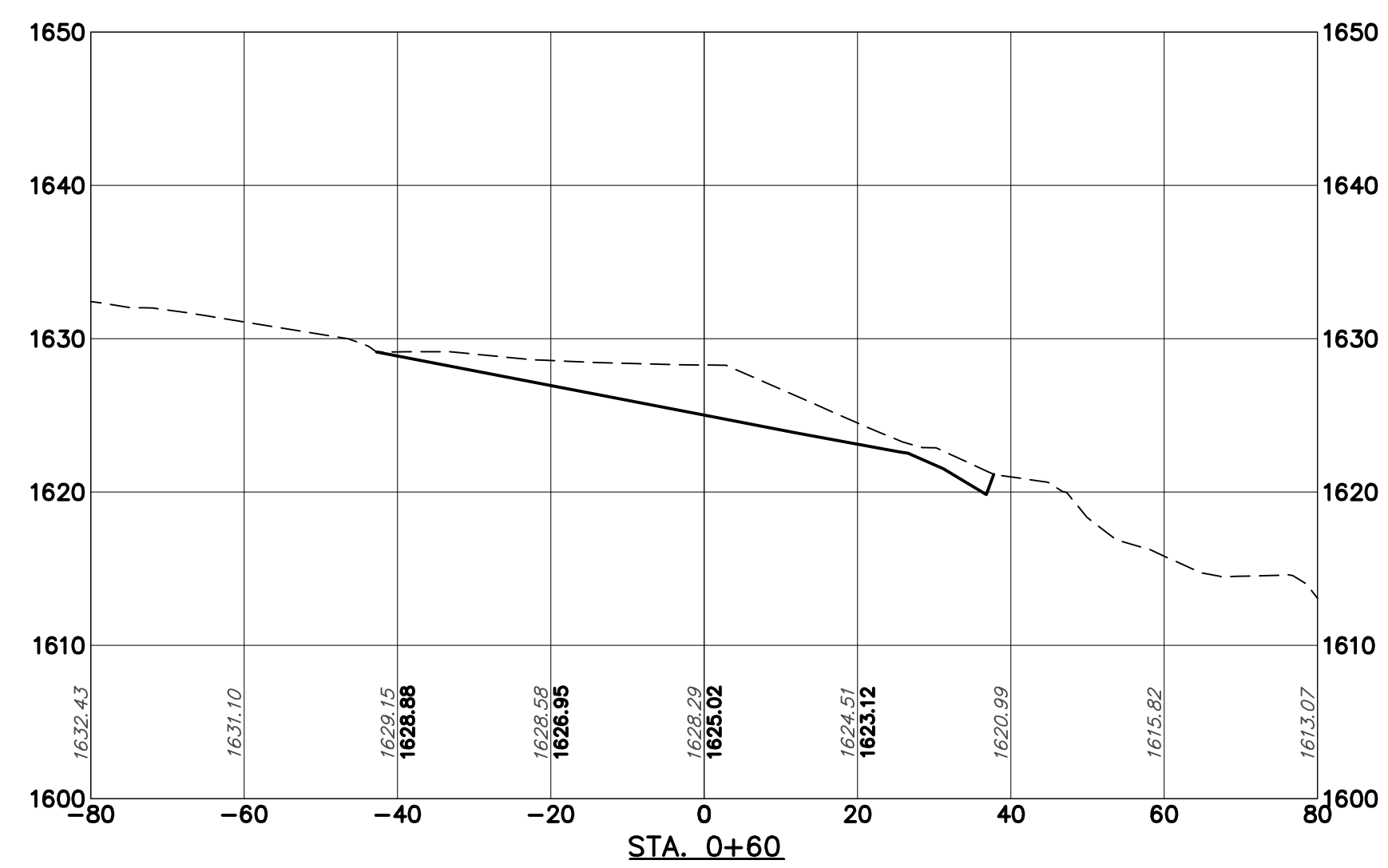
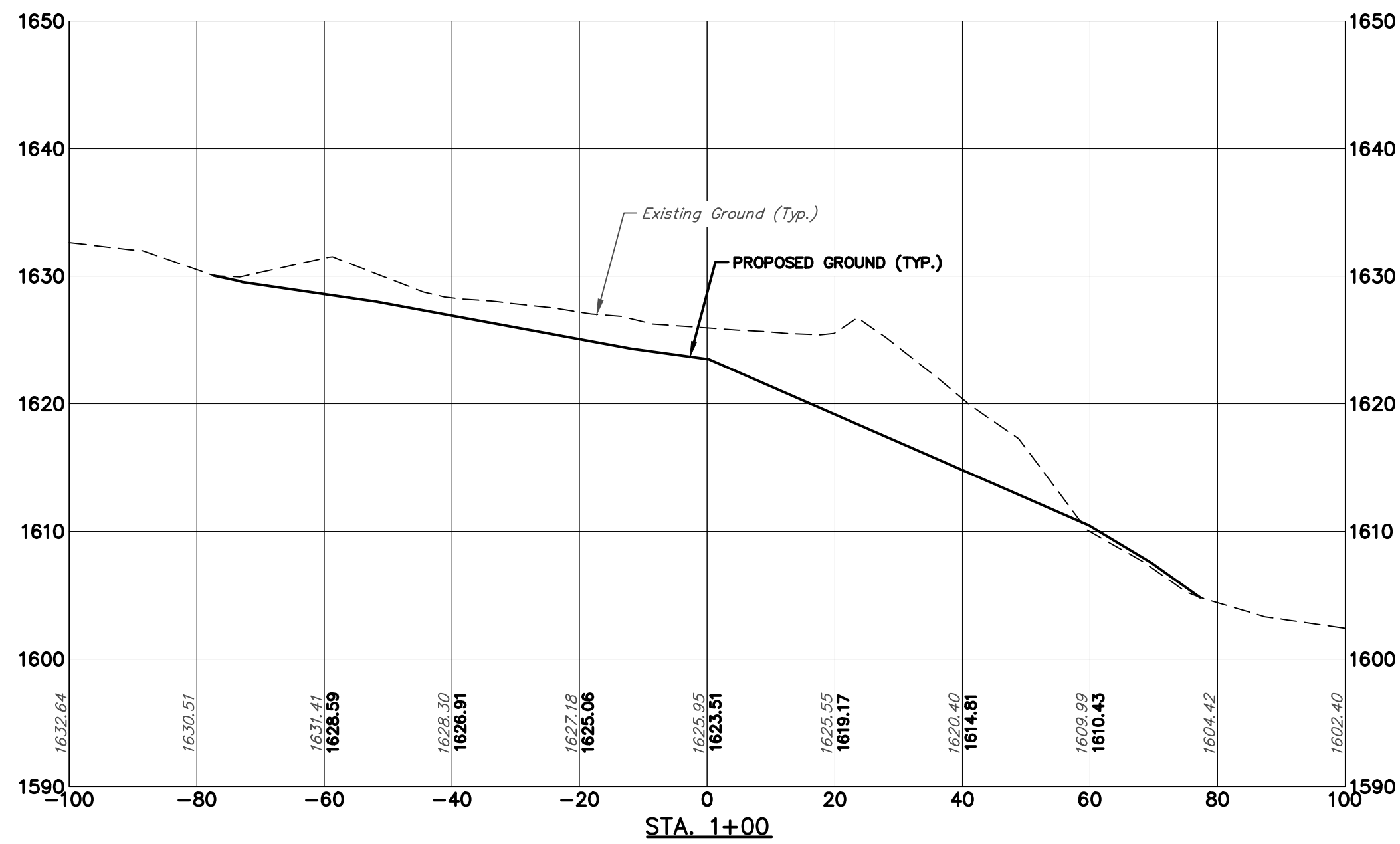
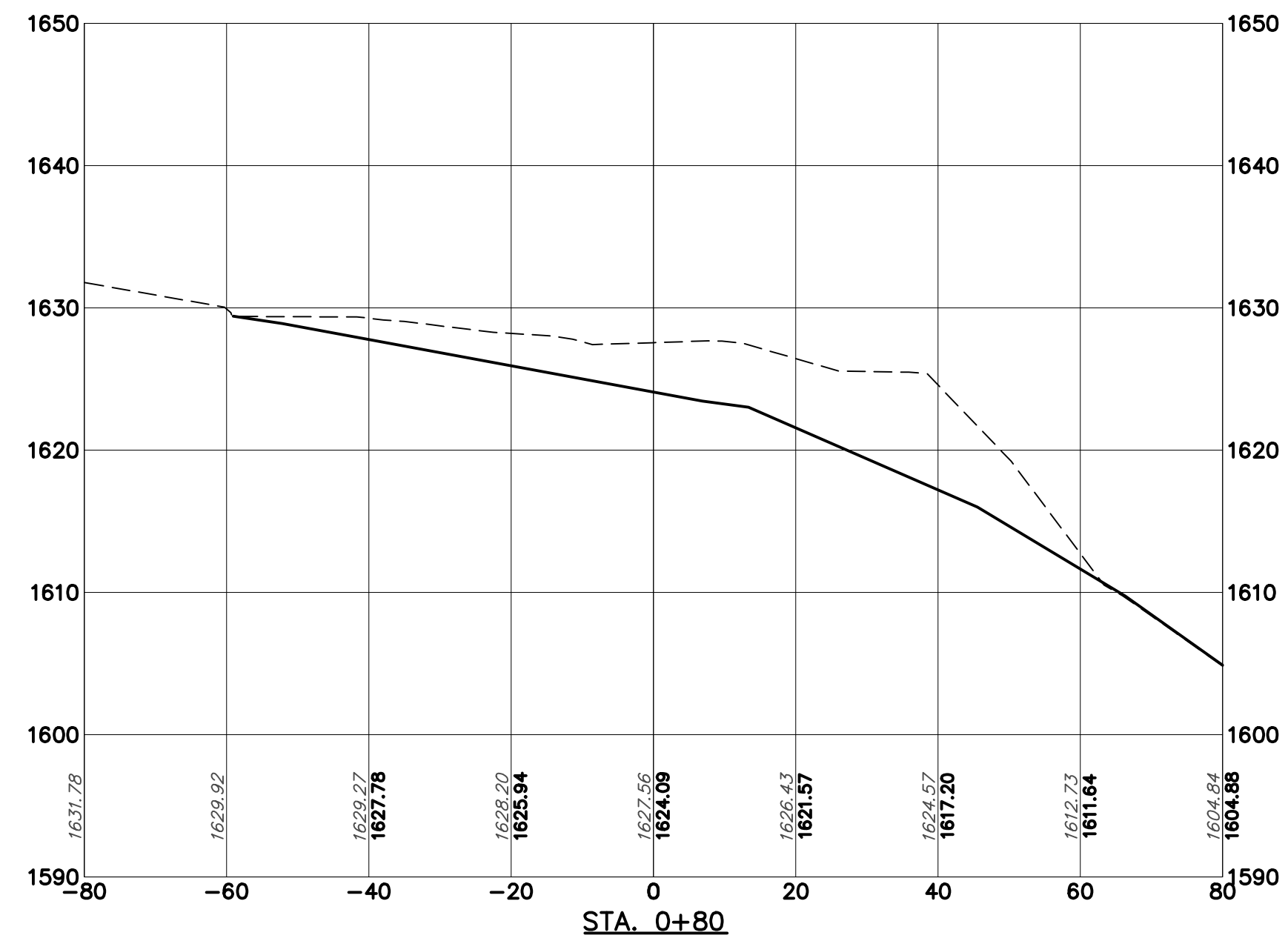
DRAWING NO.  
551050200\_A  
  
FILE NUMBER  
5510.5.02.00  
  
SHEET  
9 OF 39



**SITE 1B - PROFILE**  
 H: 1" = 20'  
 V: 1" = 10'

	DESIGNED:	TITLE OF SHEET  <b>PILE 1B PROFILE</b>  BEAR RUN PHASE IX	DRAWING NO. 551050200_A
	DRAWN BY: MPA		FILE NUMBER 5510.5.02.00
	SCALE: AS SHOWN		SHEET 10 OF 39
	DATE: 12/20/2013		

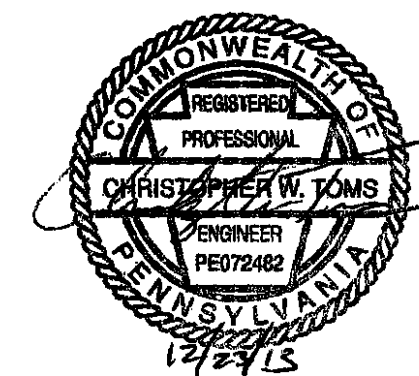
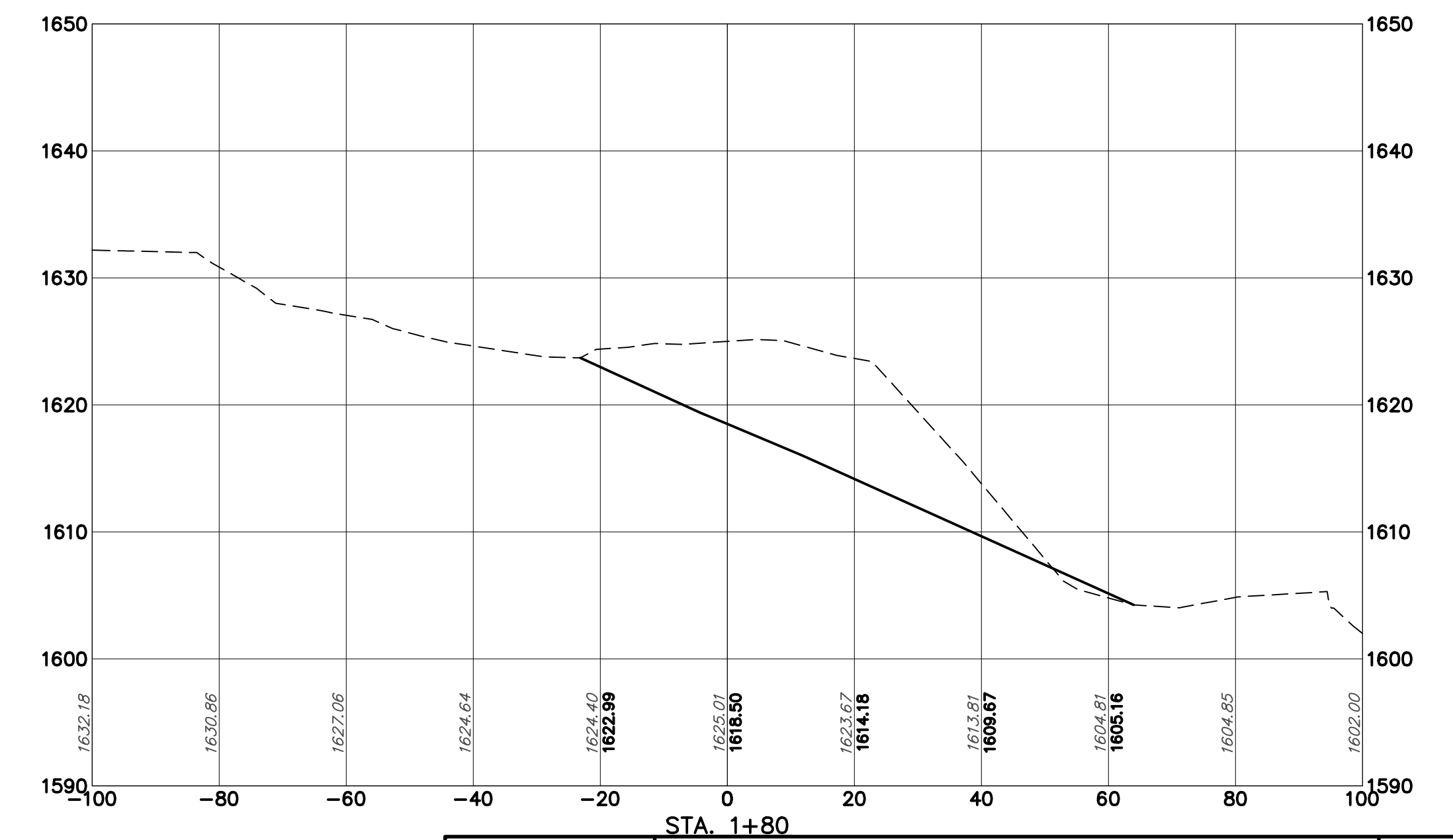
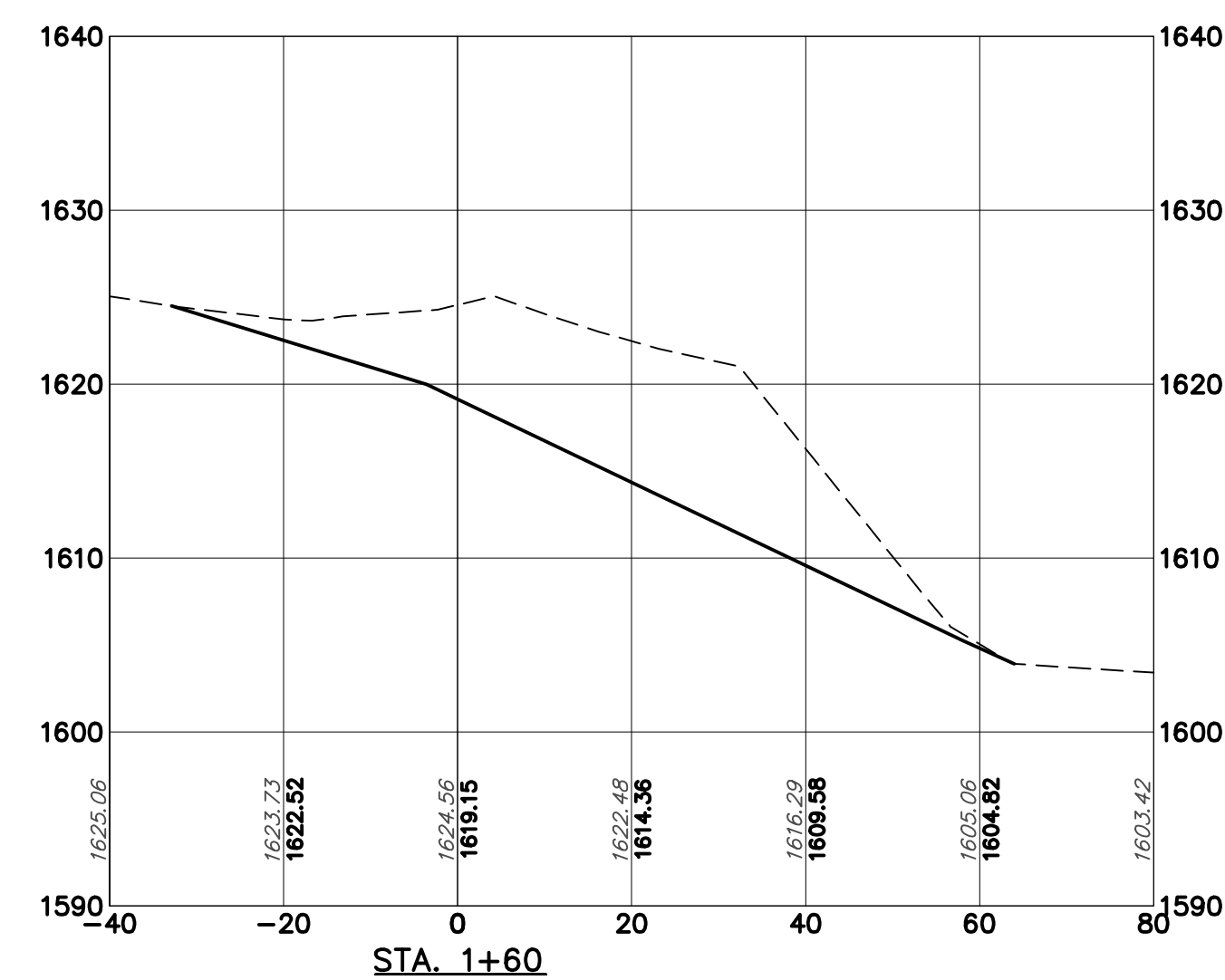
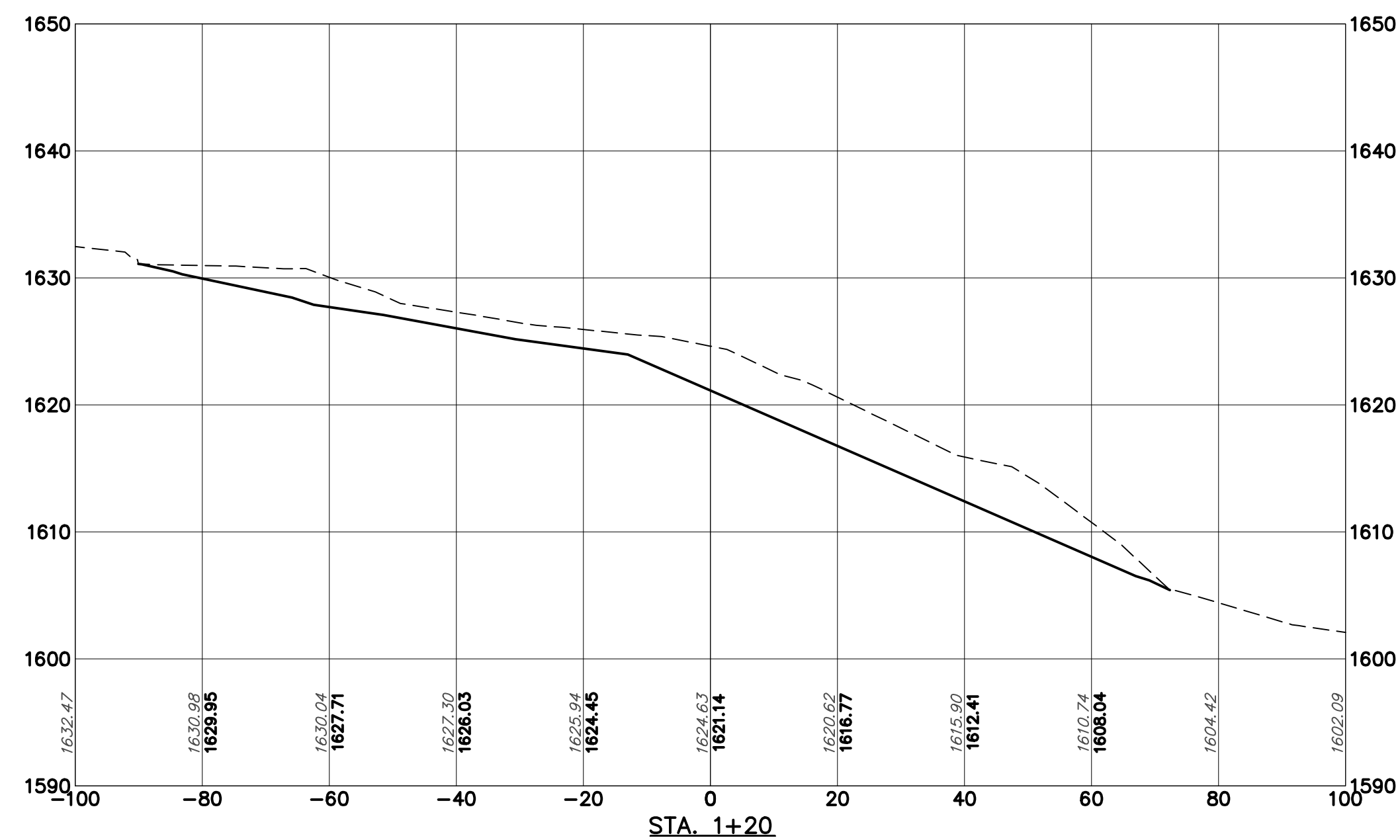
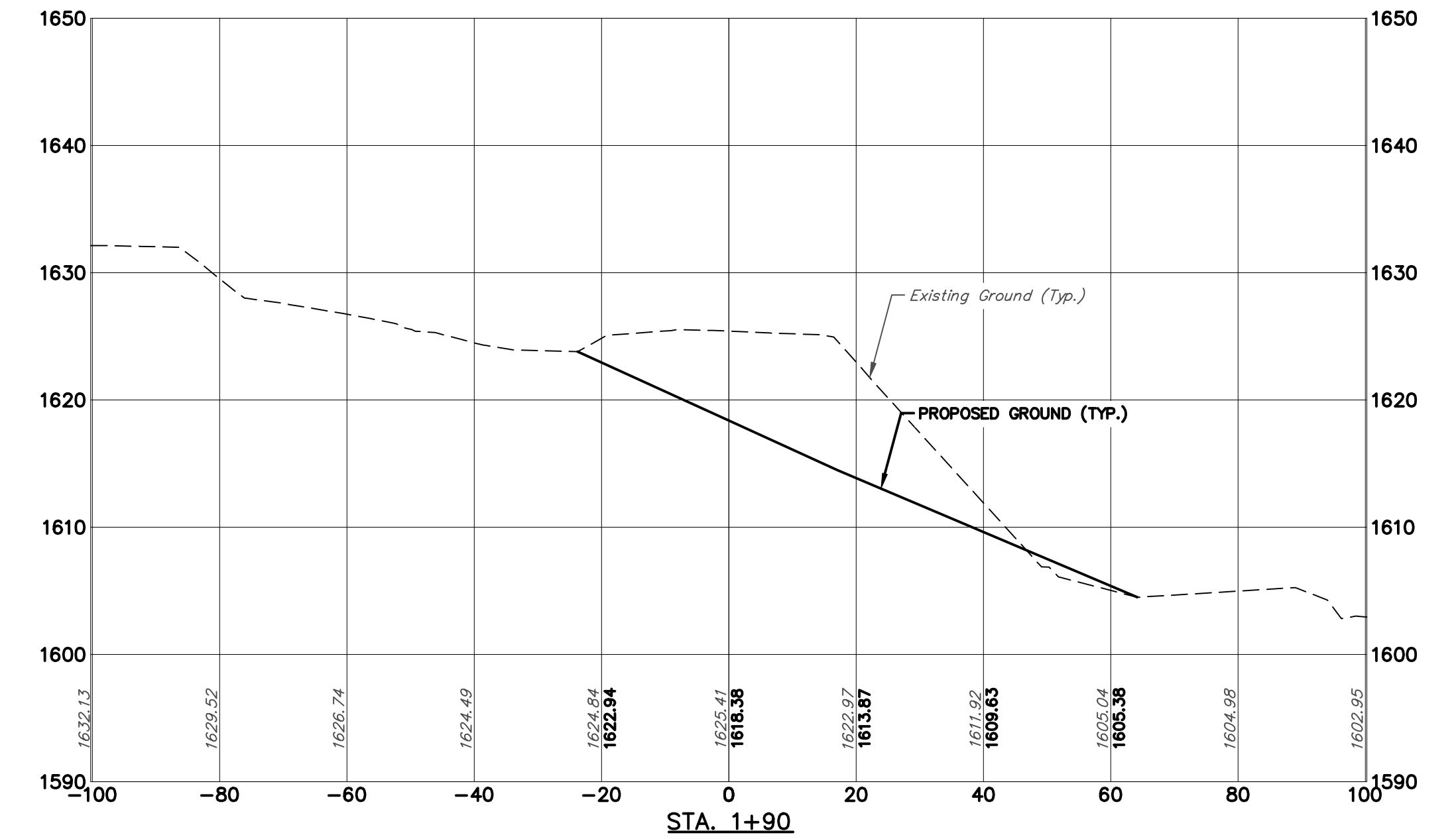
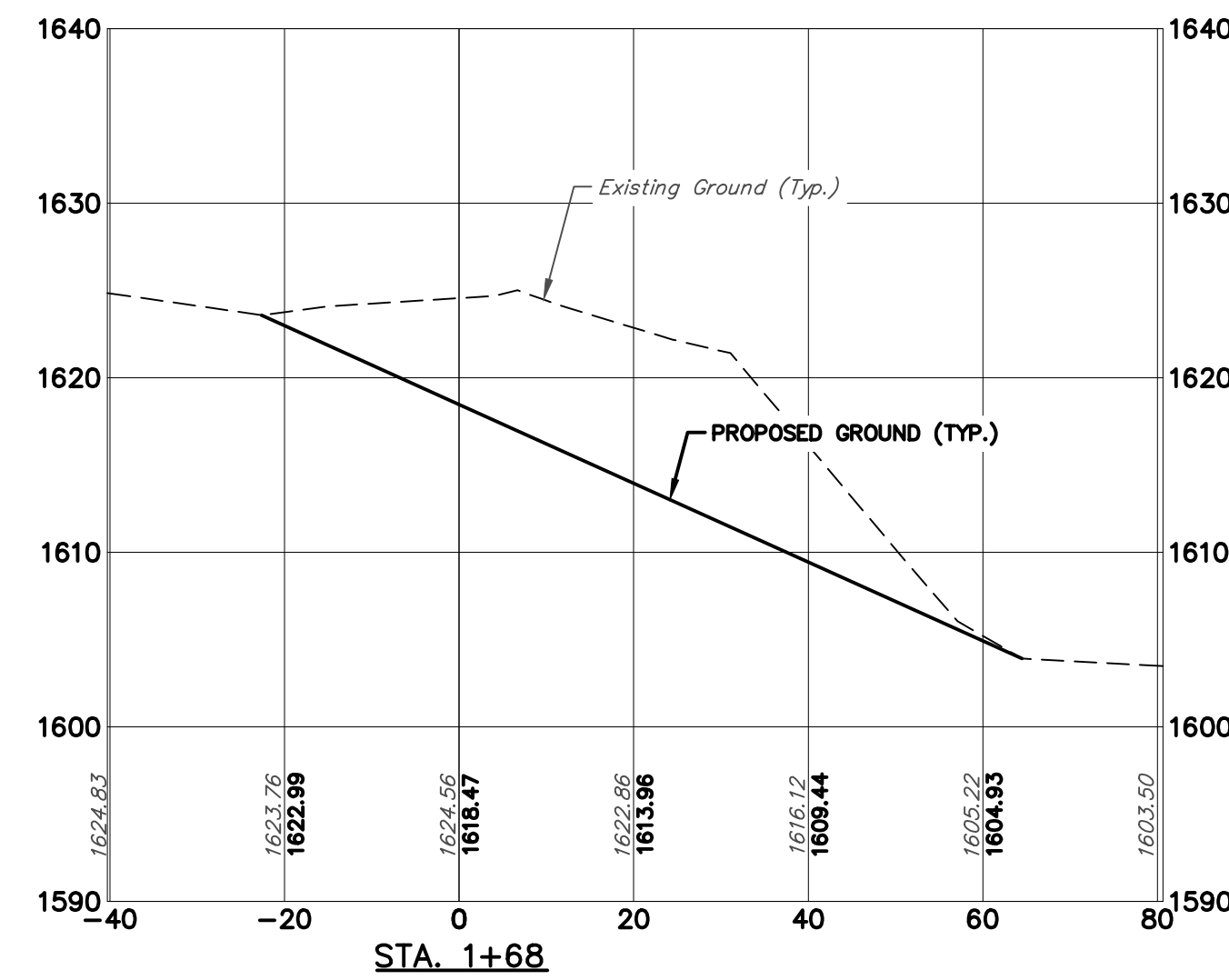
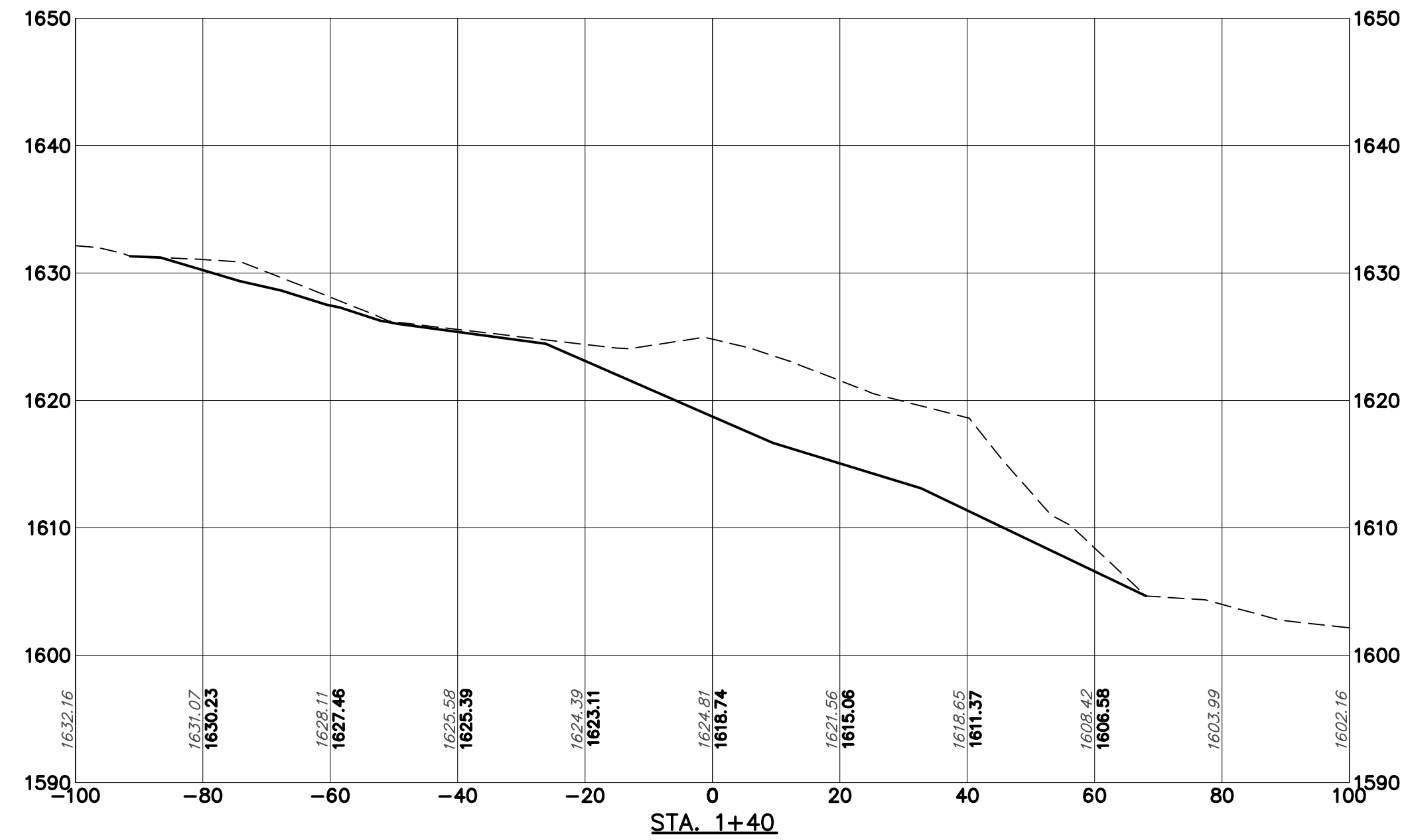
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DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE: 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**PILE 1B  
 CROSS SECTIONS**  
 BEAR RUN PHASE IX

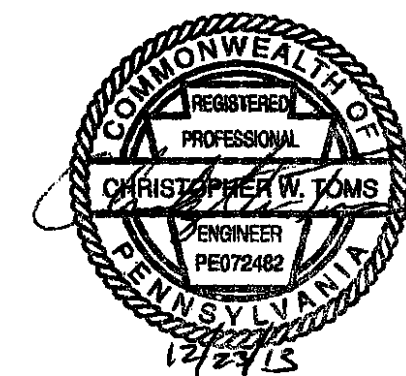
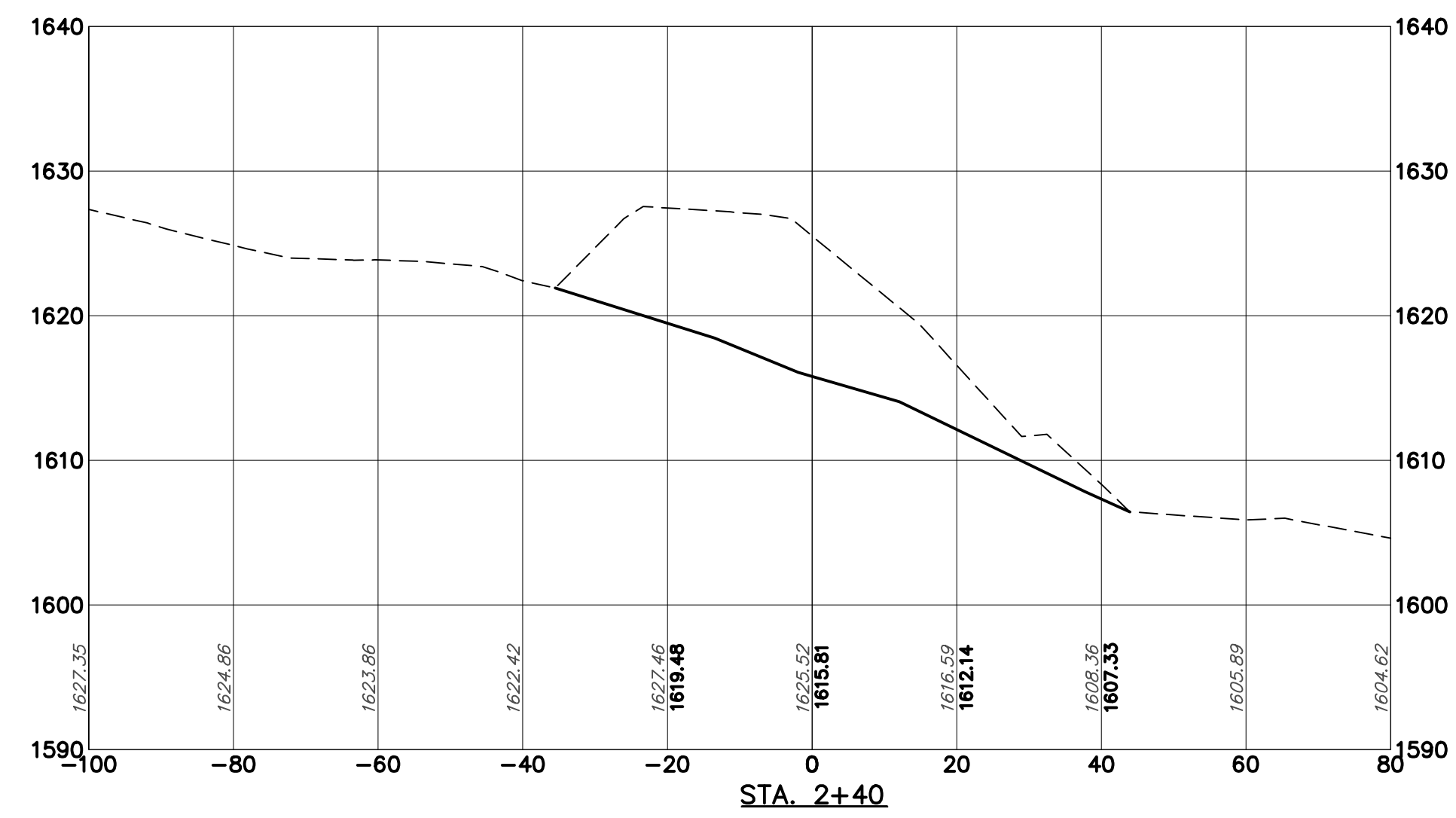
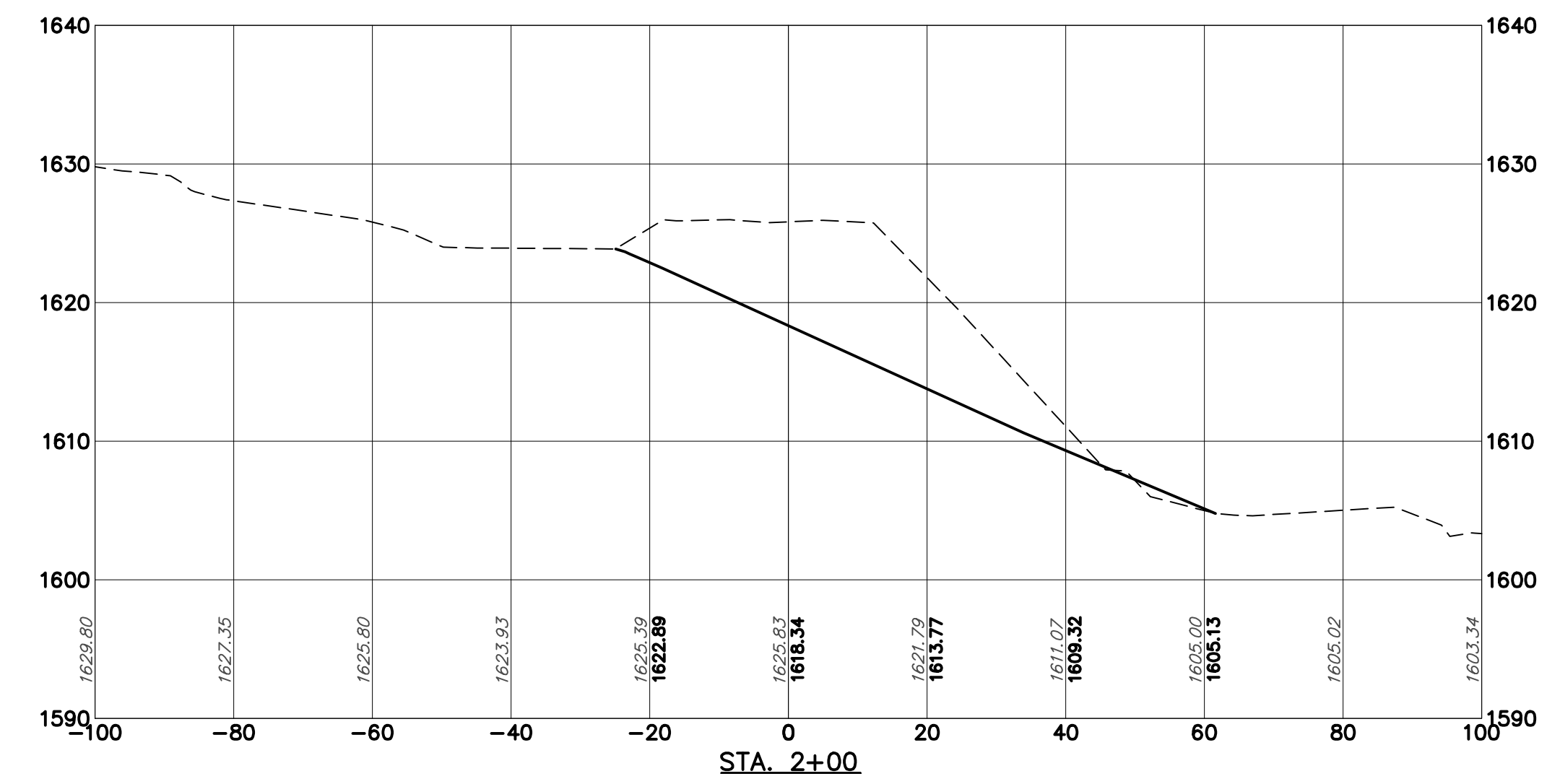
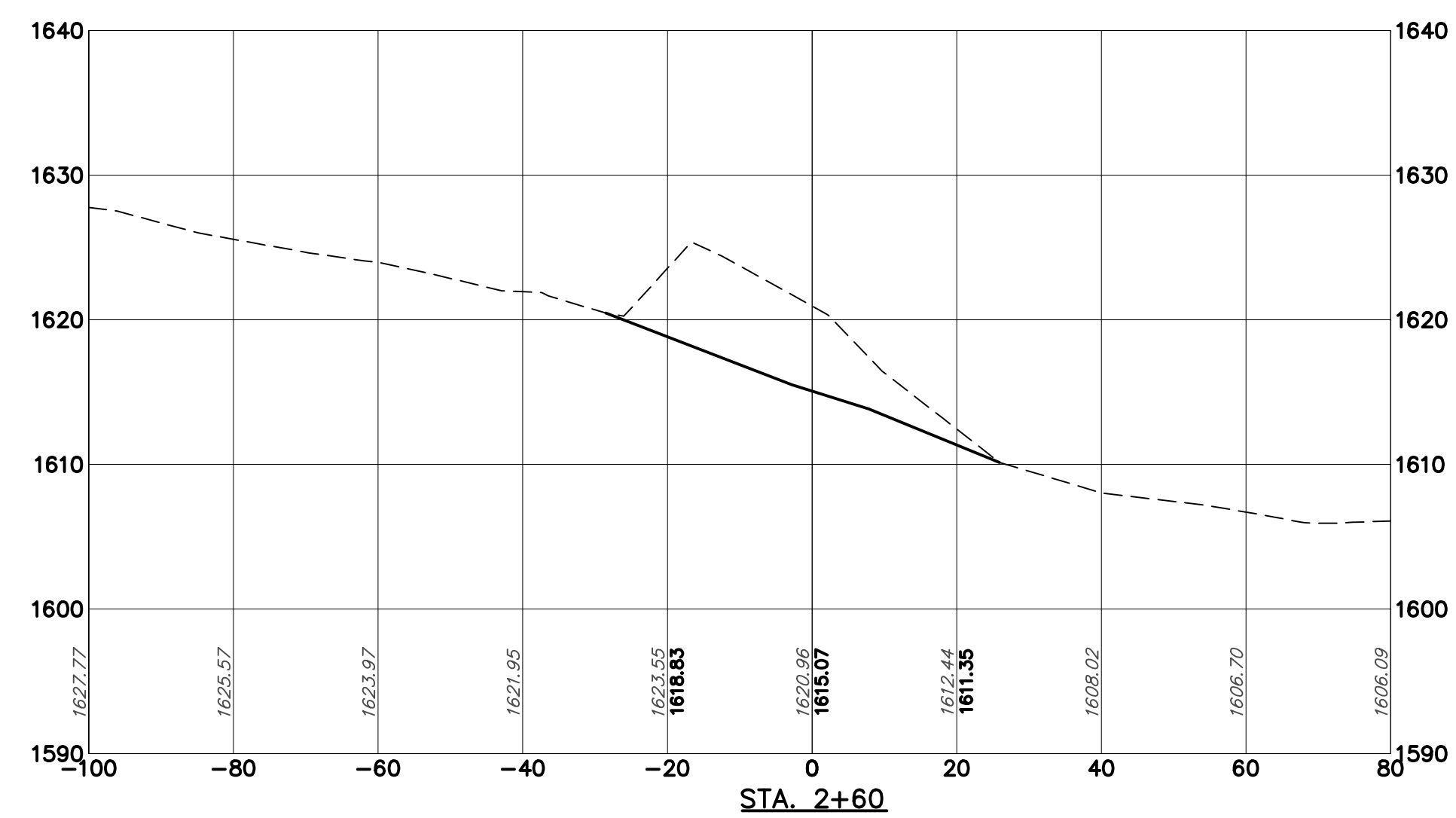
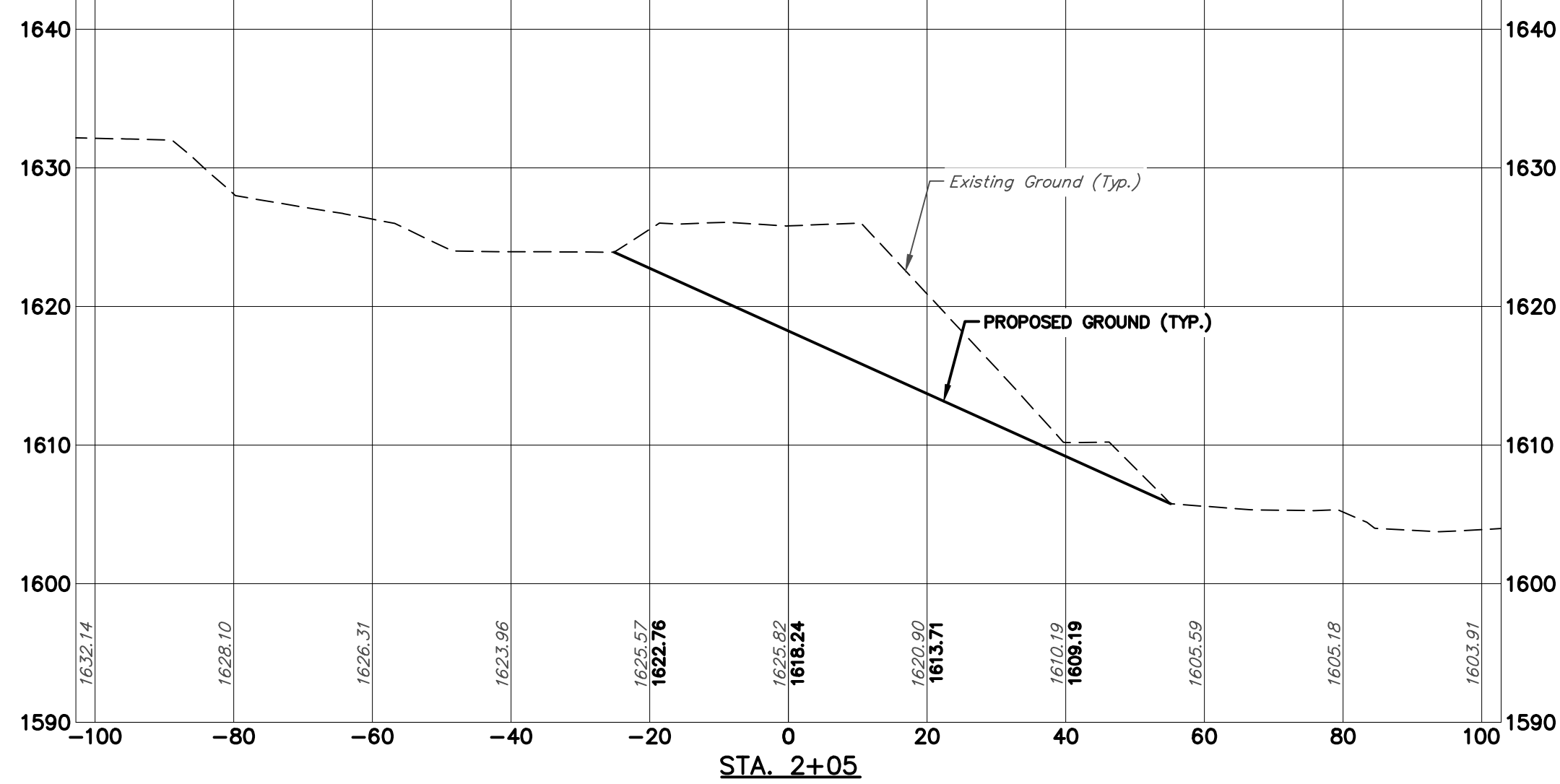
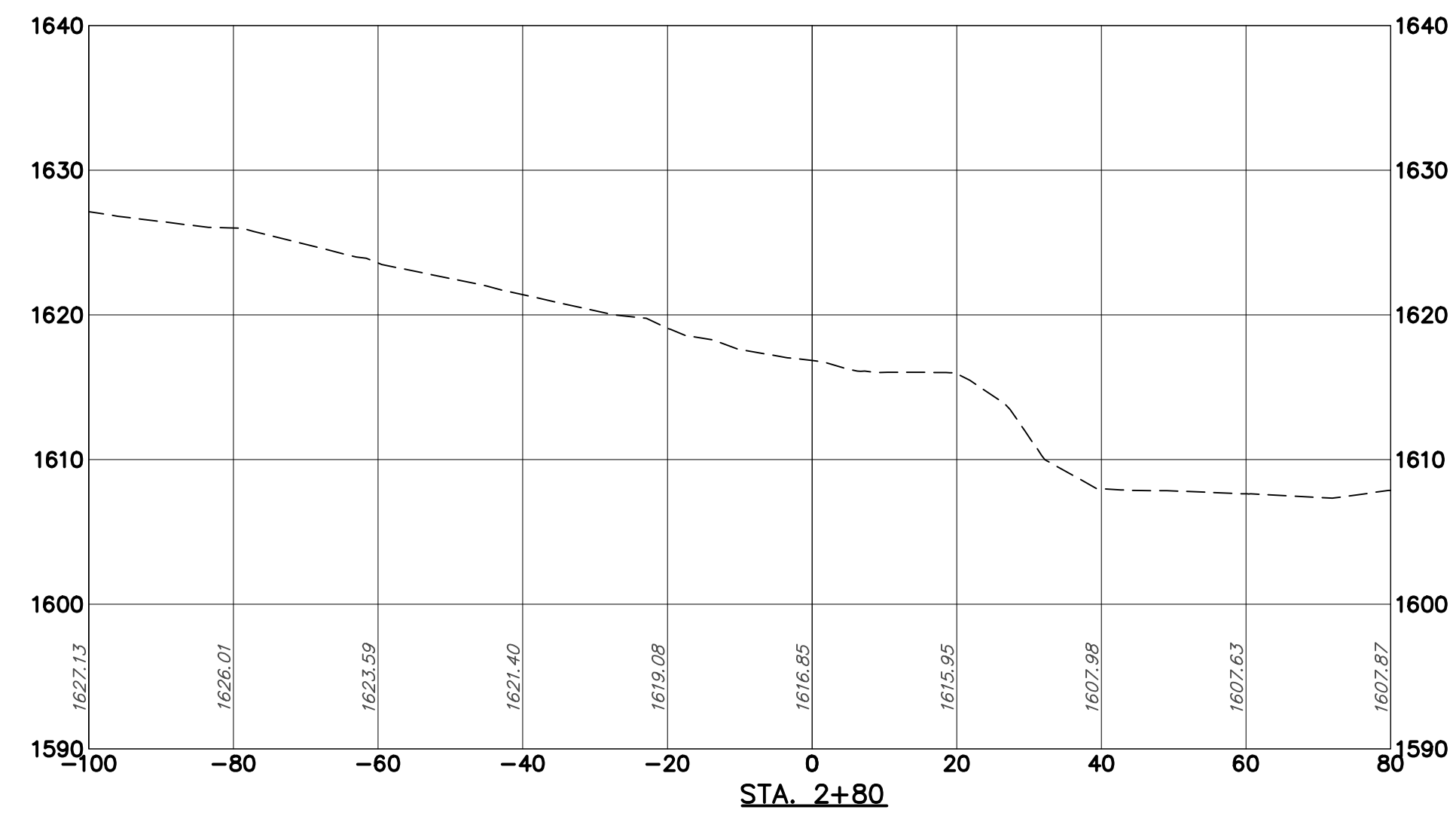
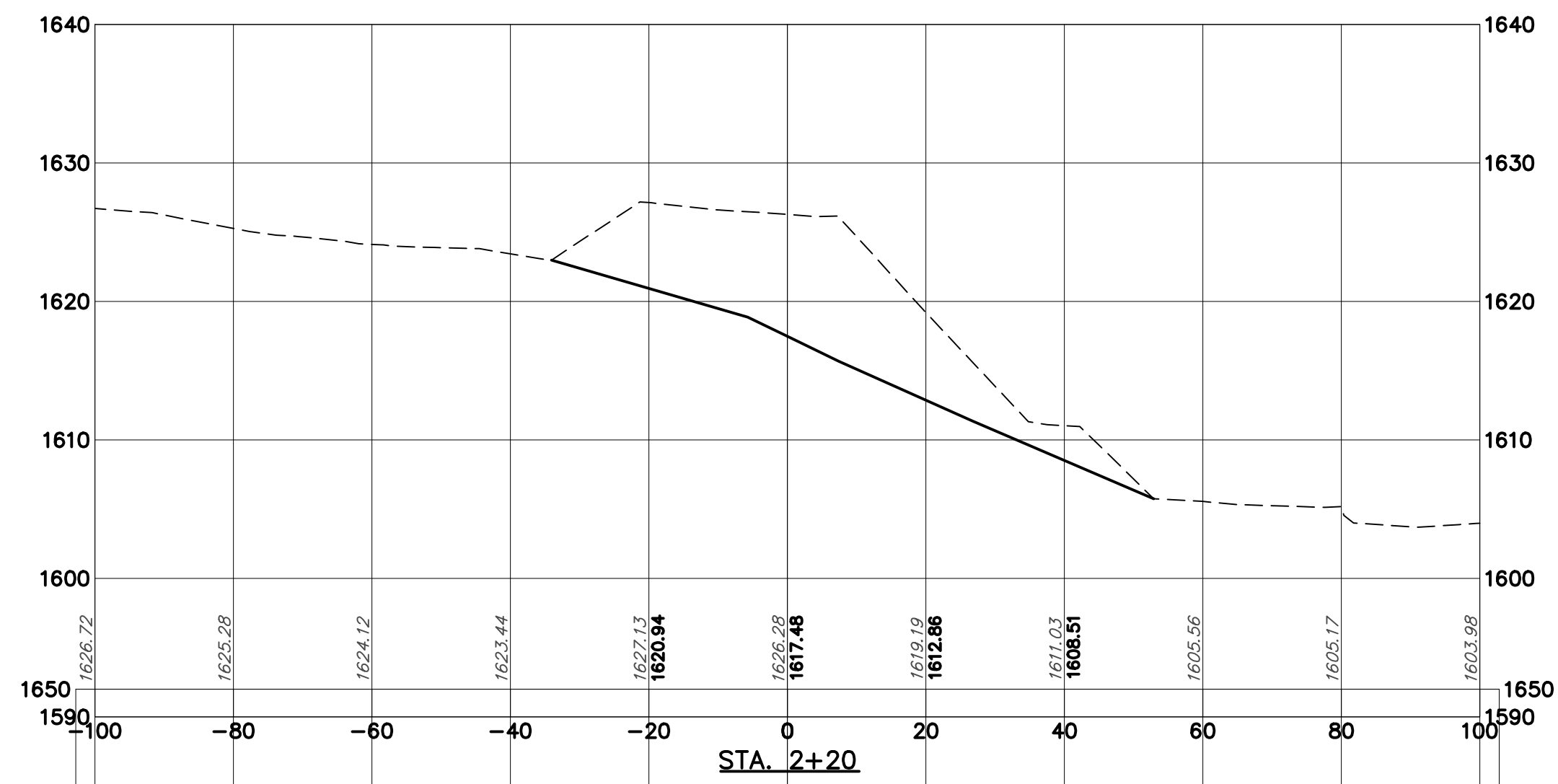
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 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 11 OF 39



DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE:  
 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
 PILE 1B  
 CROSS SECTIONS  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 12 OF 39

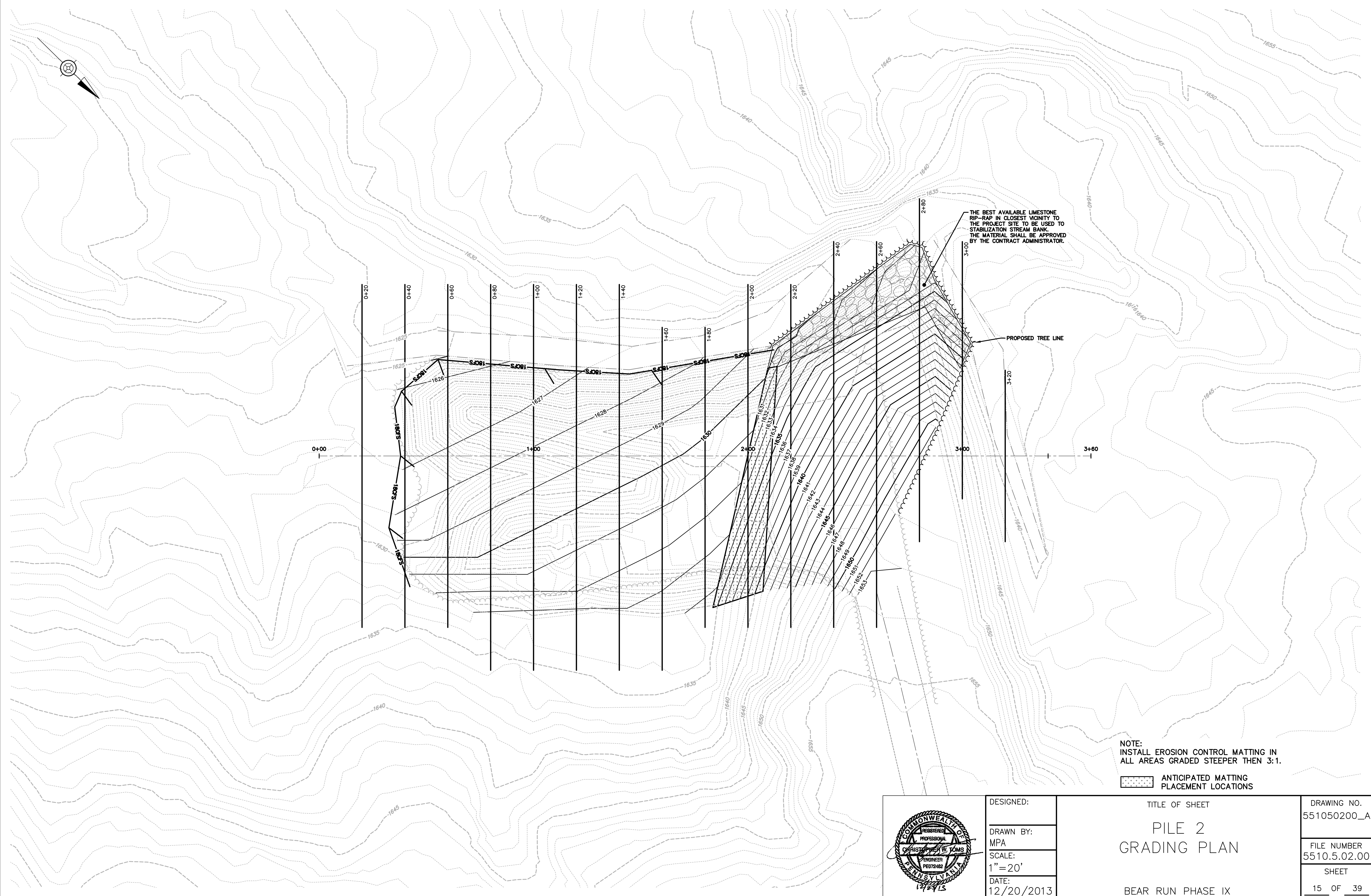


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 DRAWN BY:  
 MPA  
 SCALE: 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**PILE 1B  
 CROSS SECTIONS**  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 13 OF 39



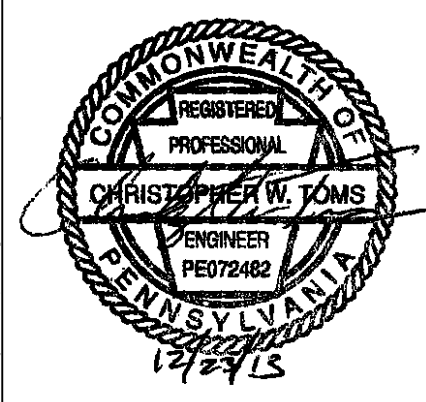


THE BEST AVAILABLE LIMESTONE RIP-RAP IN CLOSEST VICINITY TO THE PROJECT SITE TO BE USED TO STABILIZATION STREAM BANK. THE MATERIAL SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR.

PROPOSED TREE LINE

NOTE:  
INSTALL EROSION CONTROL MATTING IN ALL AREAS GRADED STEEPER THEN 3:1.

 ANTICIPATED MATTING PLACEMENT LOCATIONS

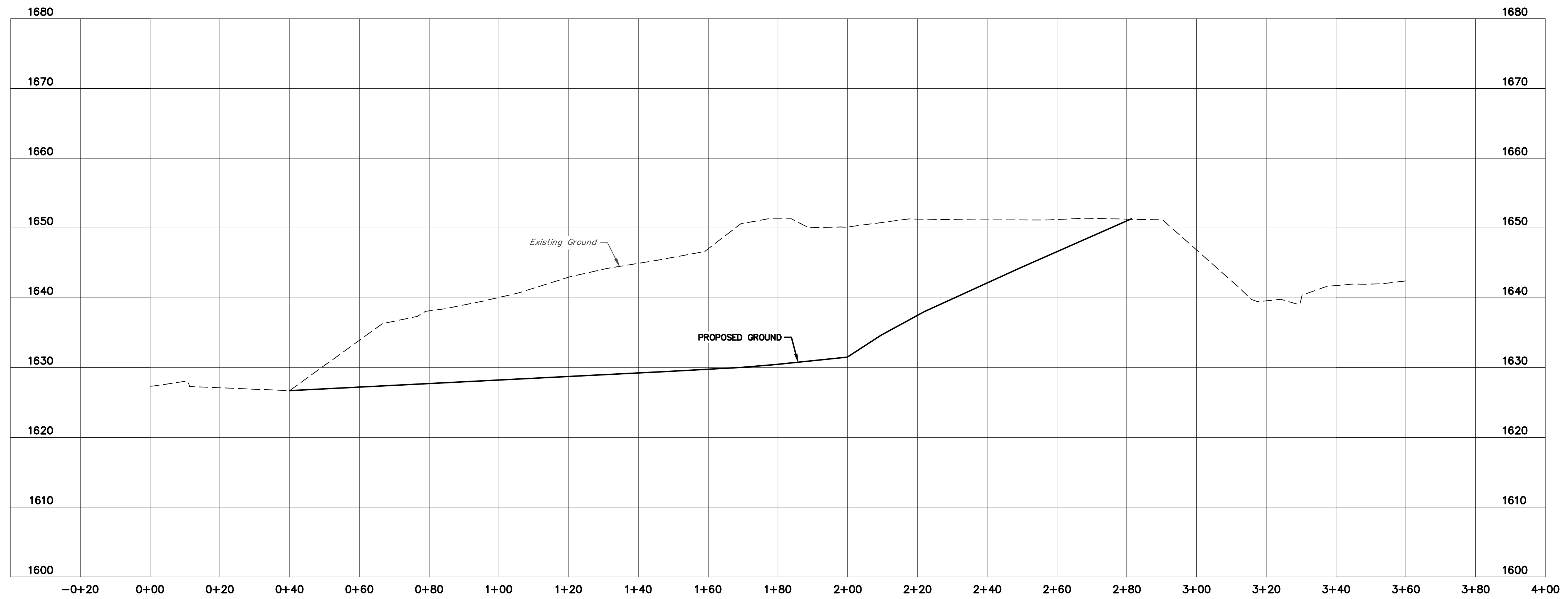
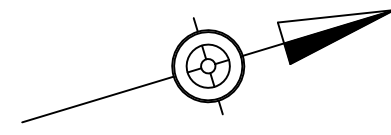


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MPA  
SCALE:  
1" = 20'  
DATE:  
12/20/2013

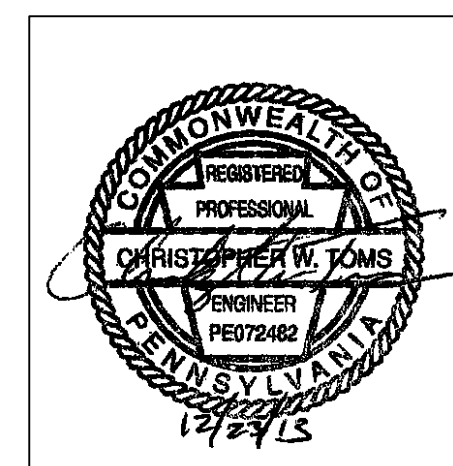
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GRADING PLAN**  
  
BEAR RUN PHASE IX

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FILE NUMBER  
5510.5.02.00  
  
SHEET  
15 OF 39

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**SITE 2 - PROFILE**  
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 V: 1" = 10'

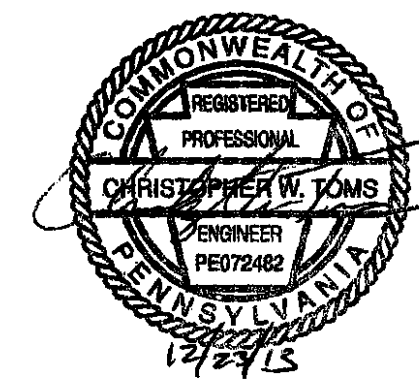
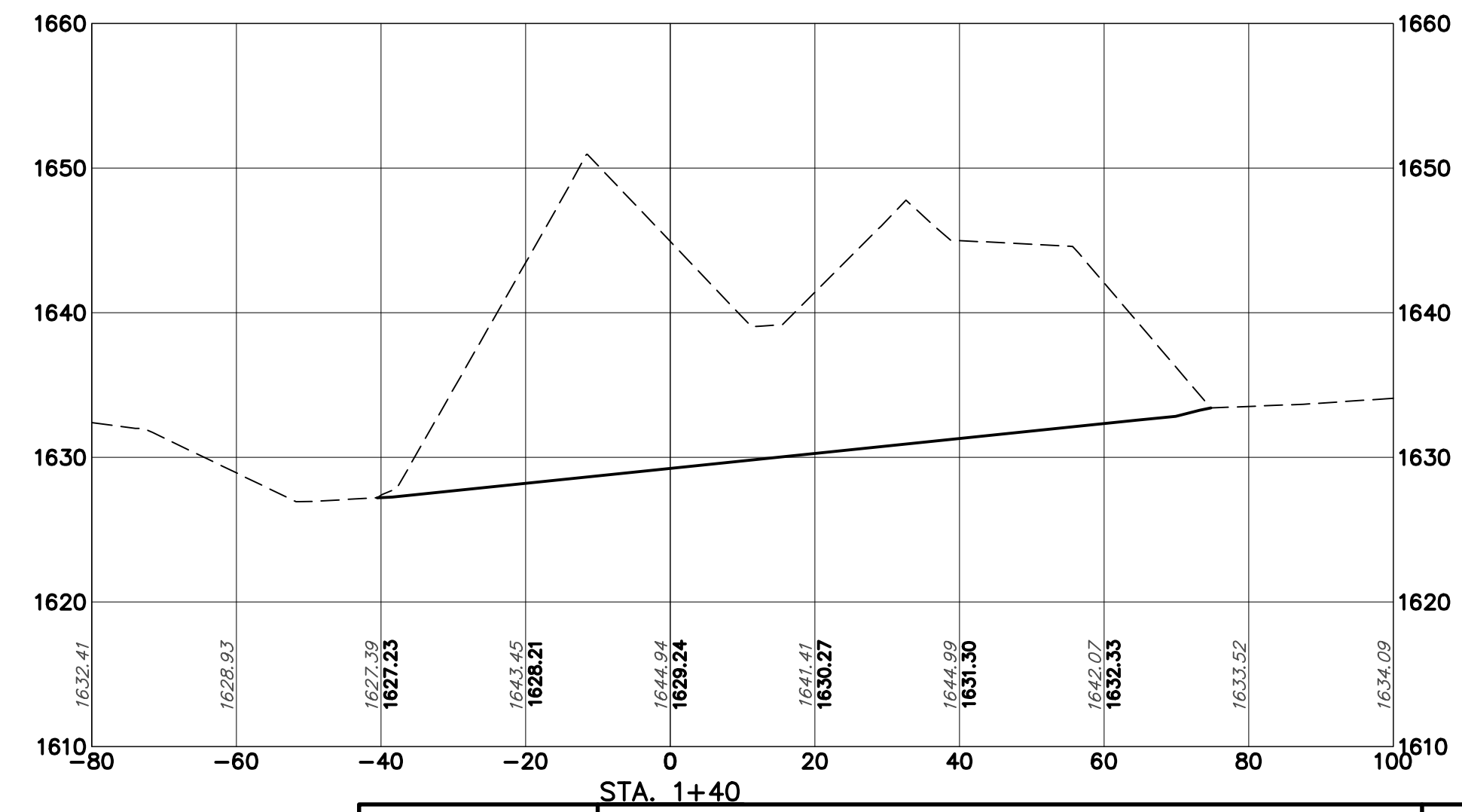
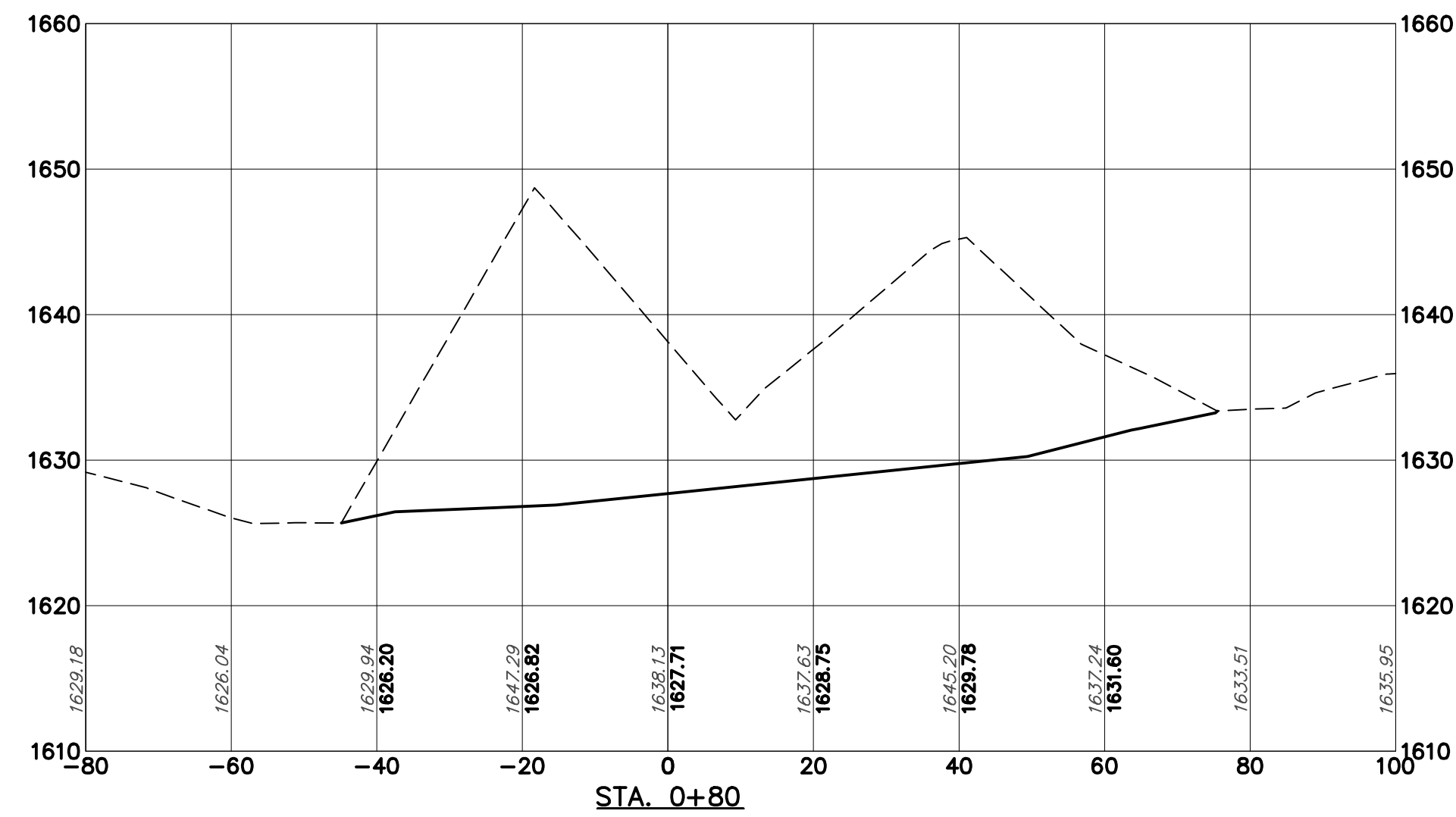
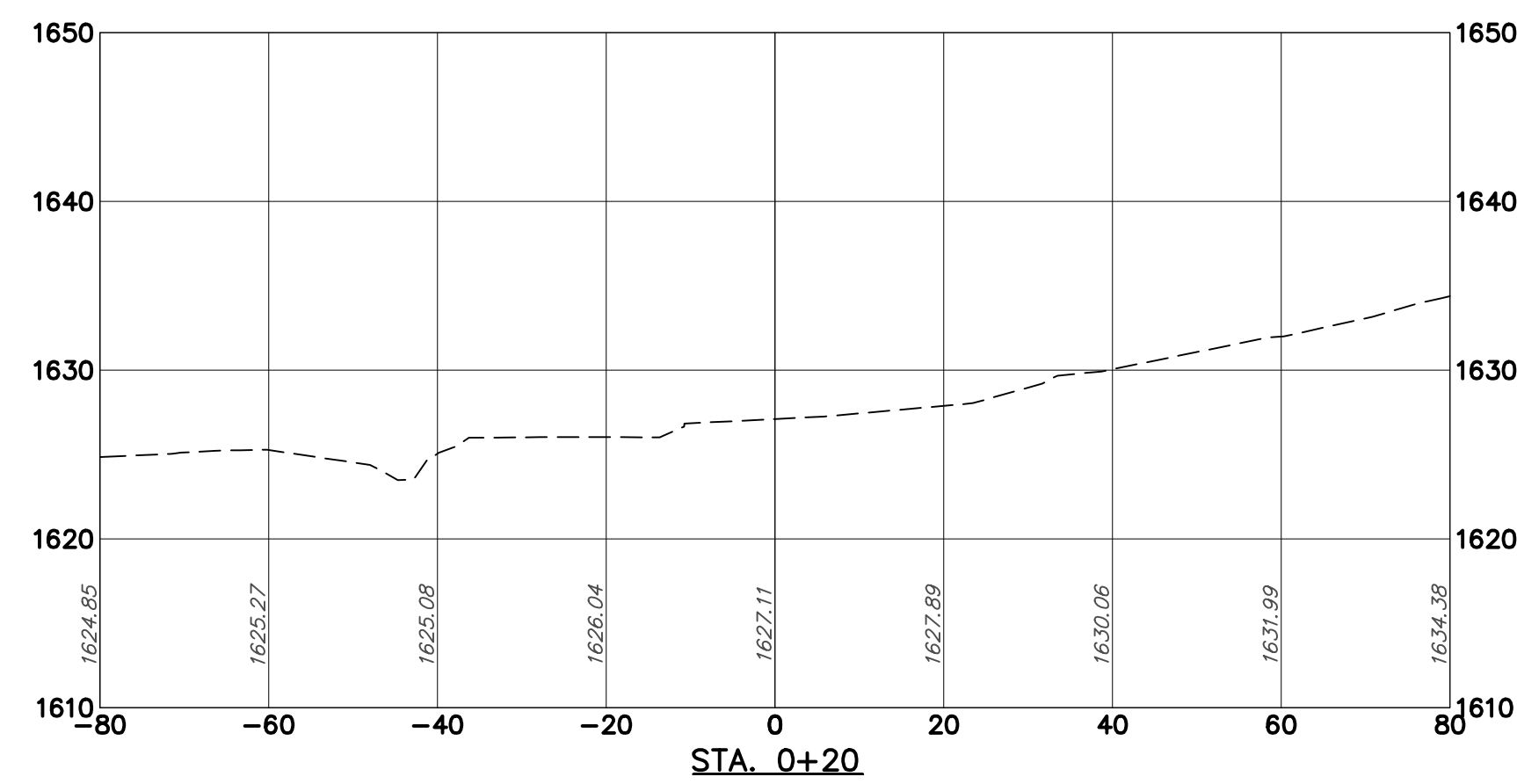
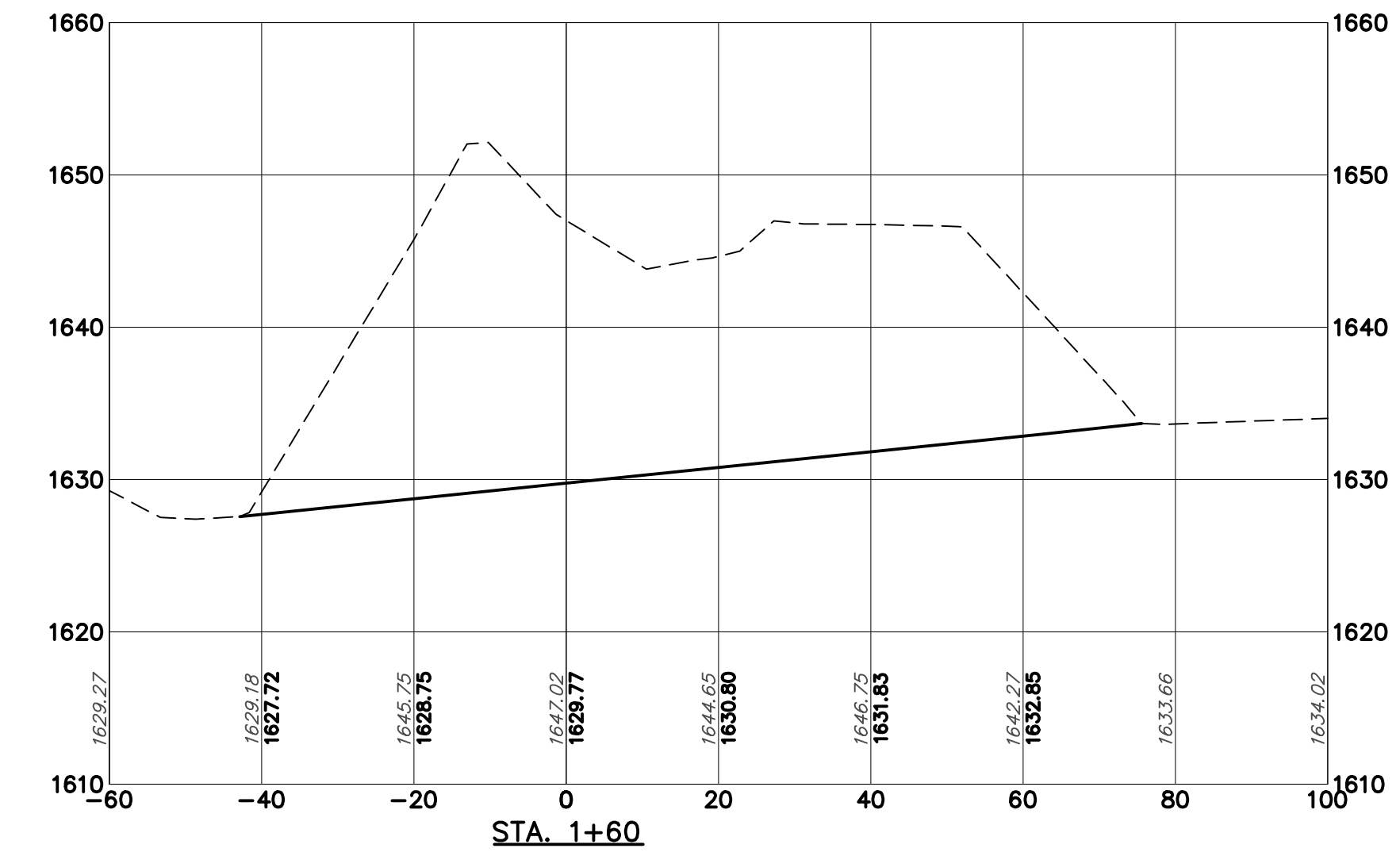
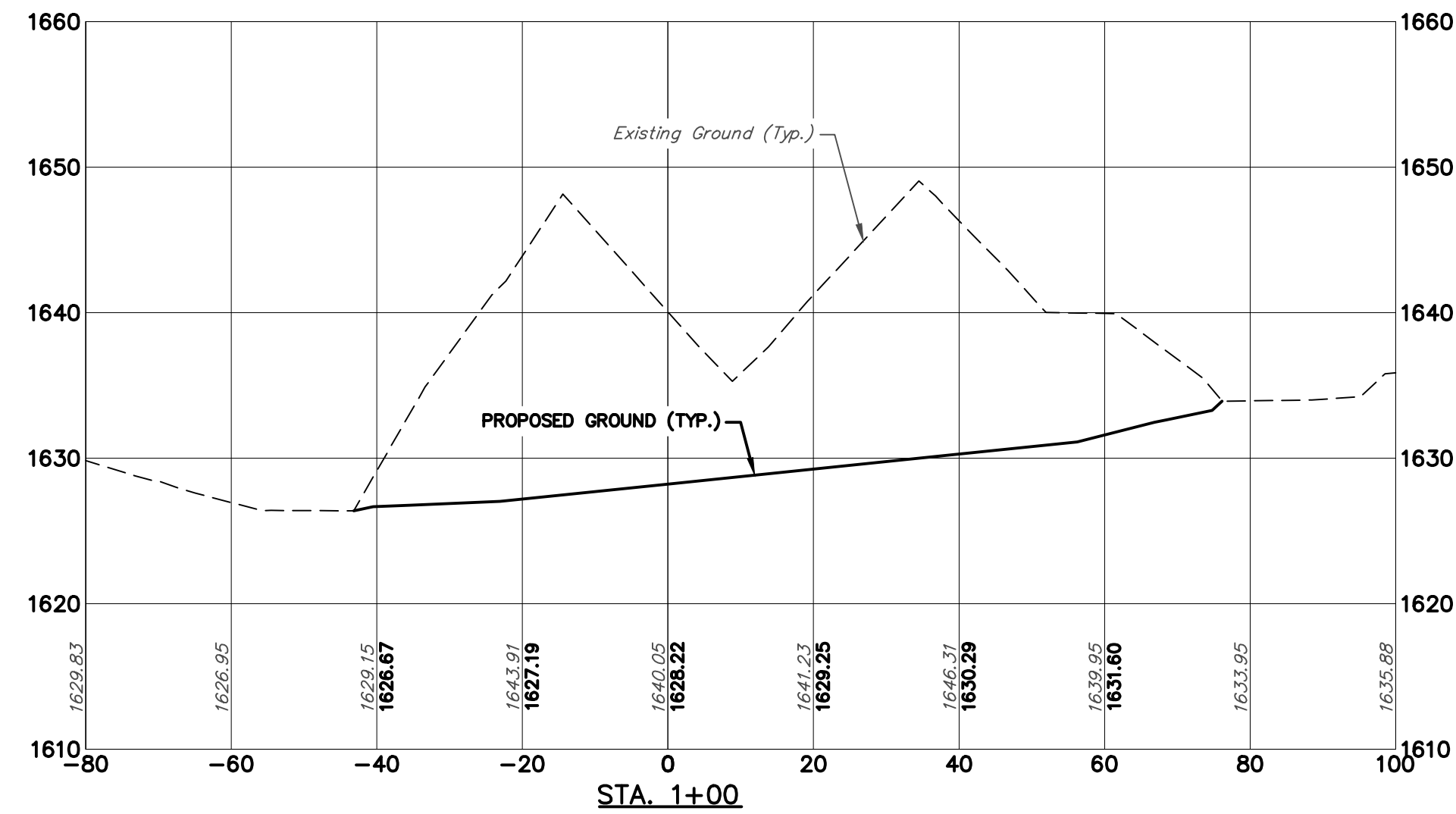
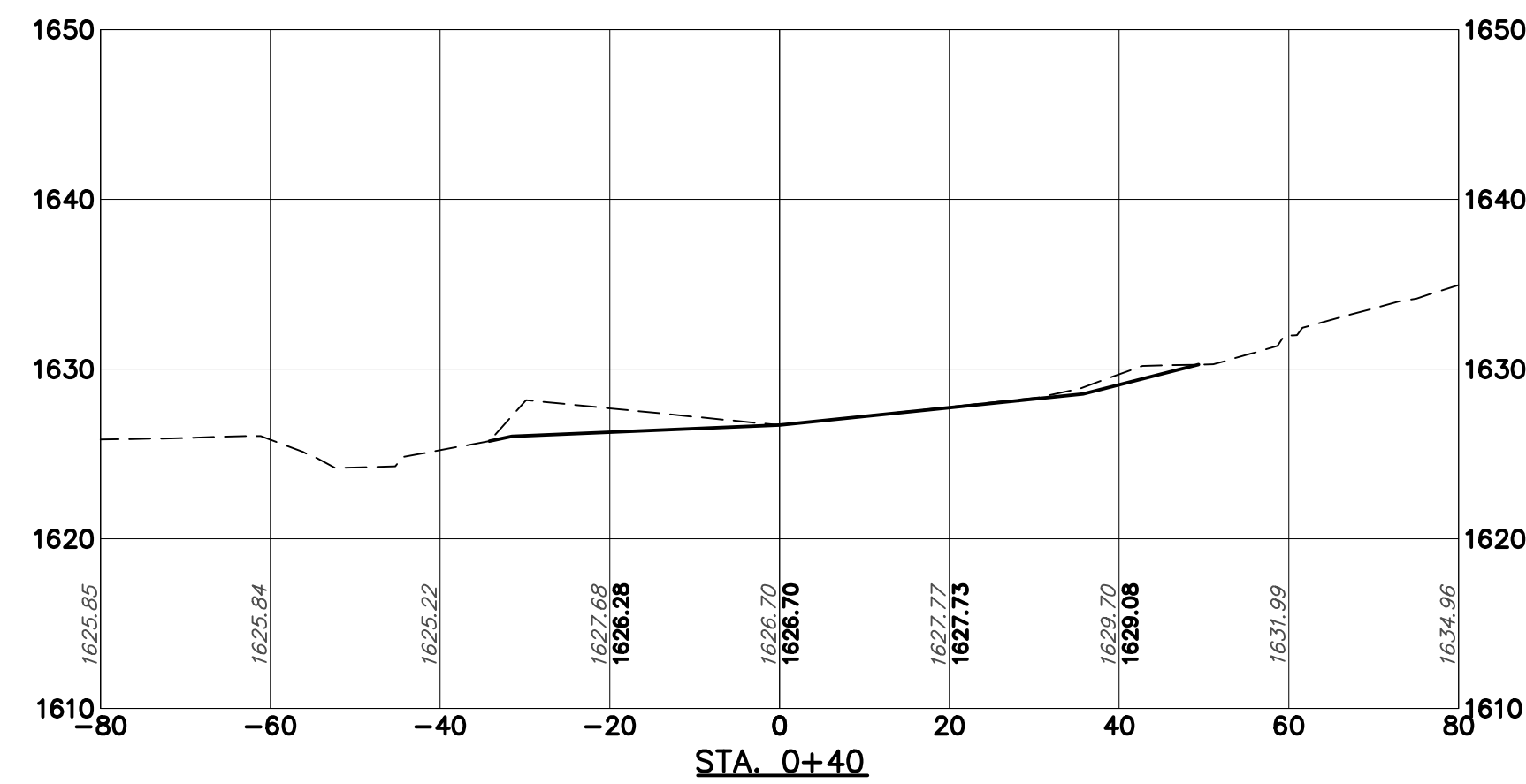
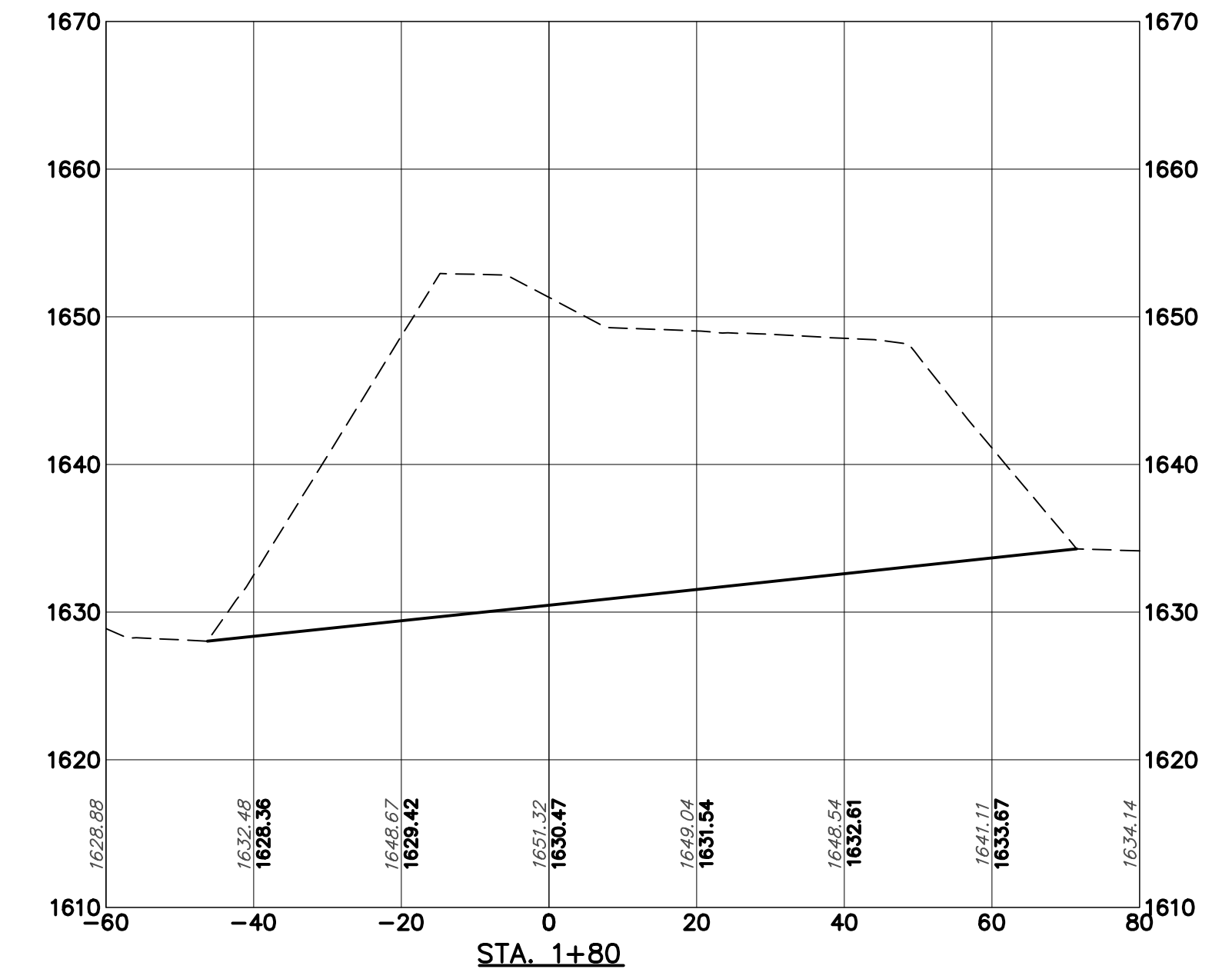
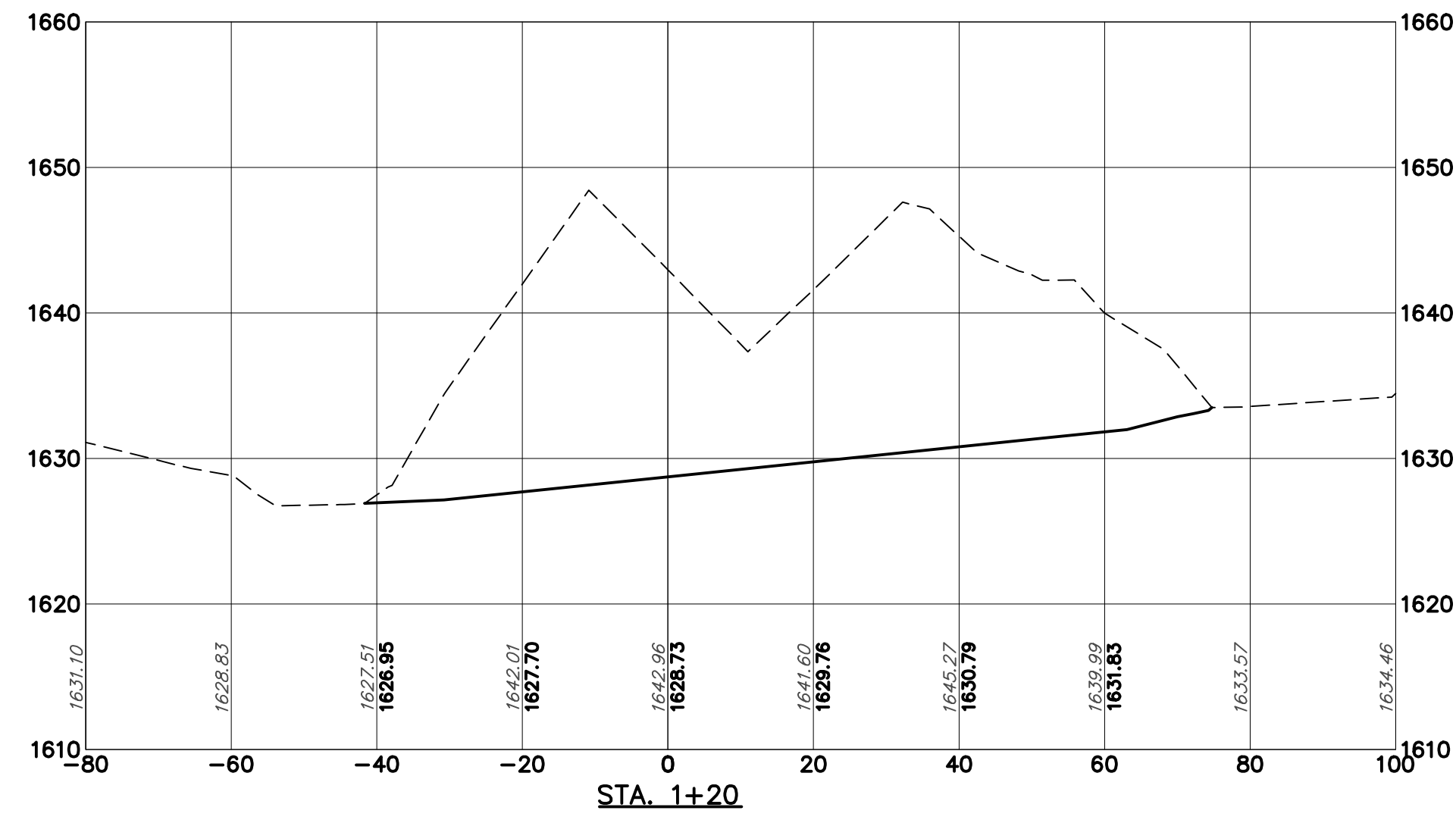
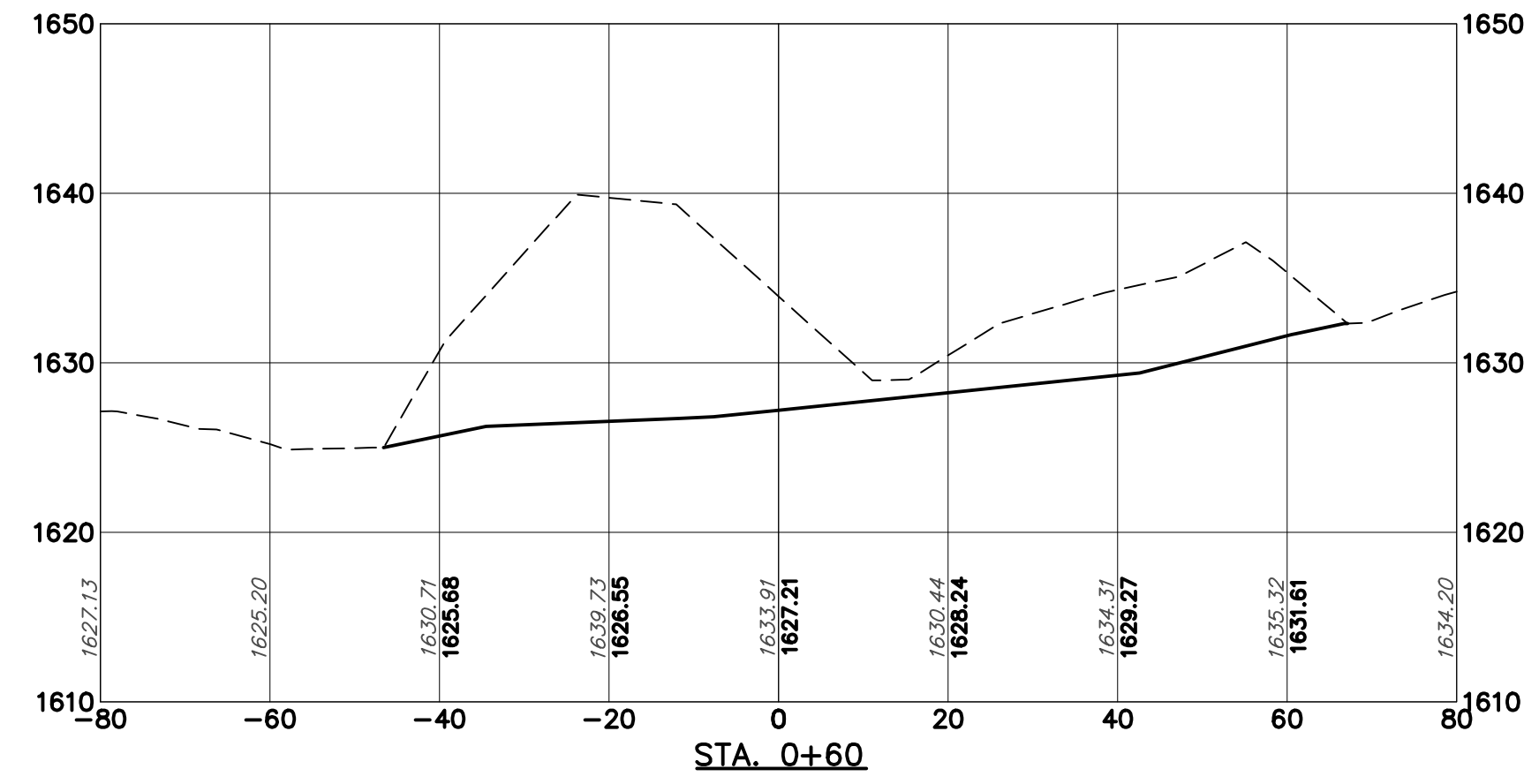


DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE:  
 AS SHOWN  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**PILE 2 PROFILE**  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_A  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 16 OF 39

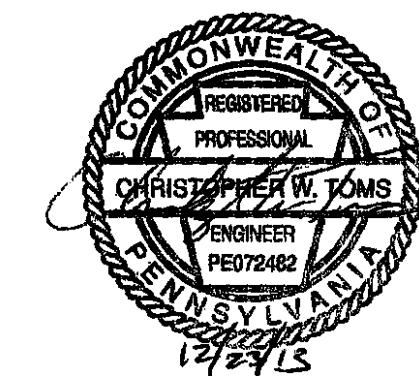
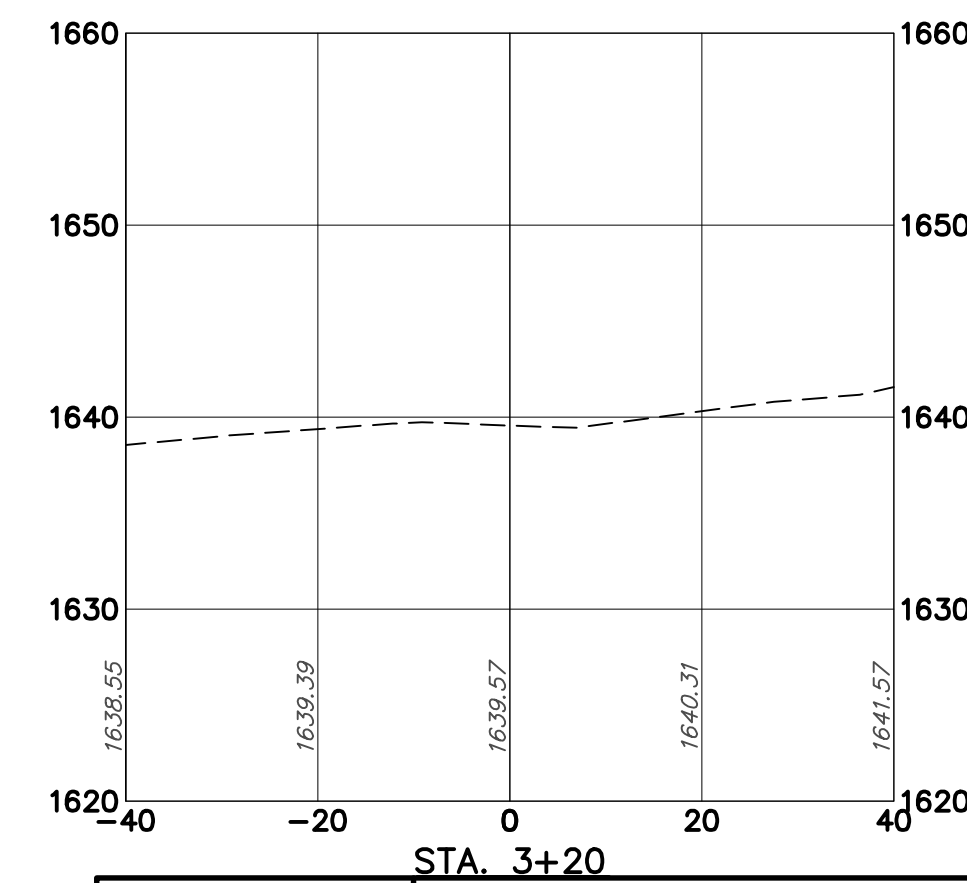
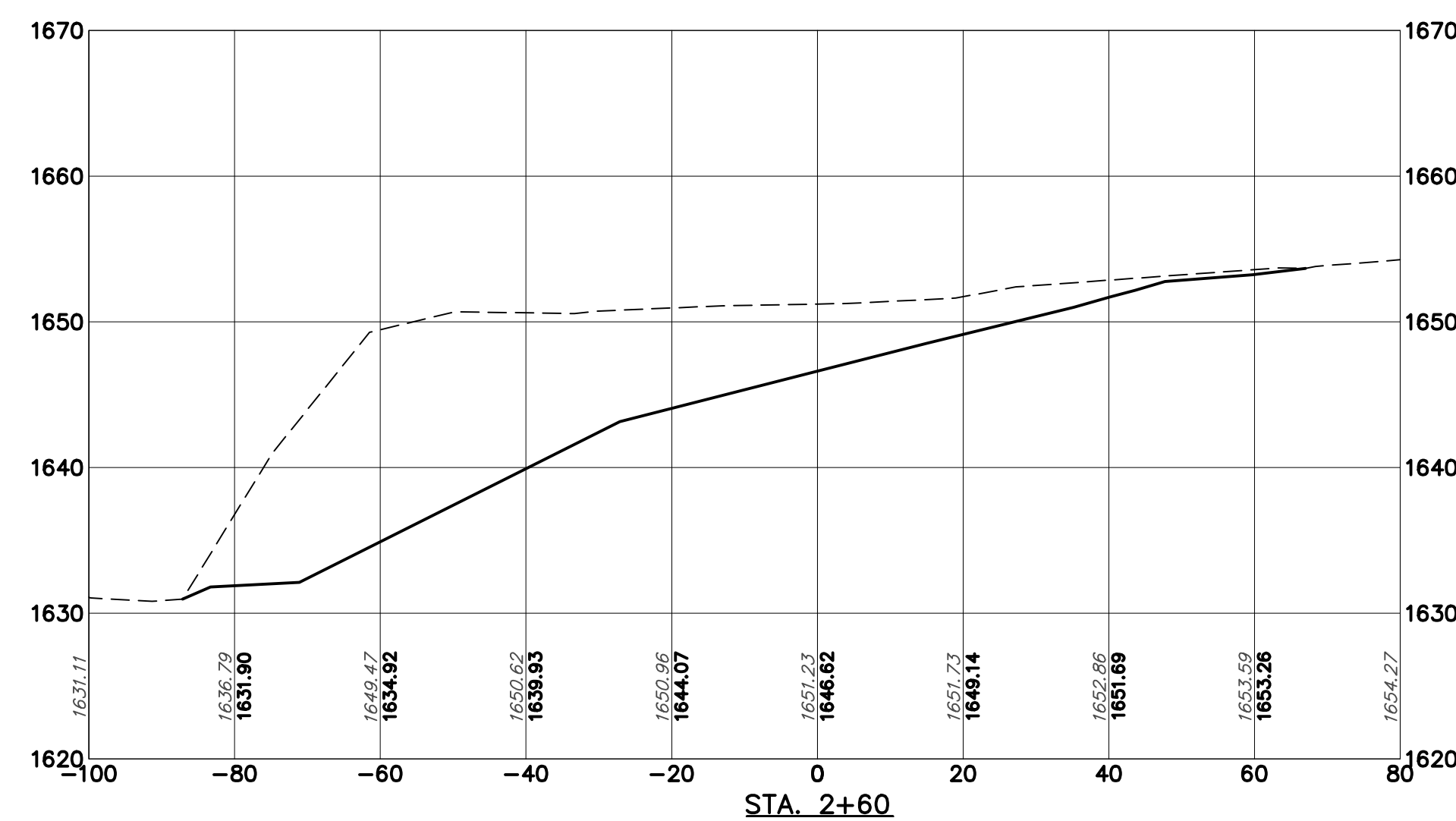
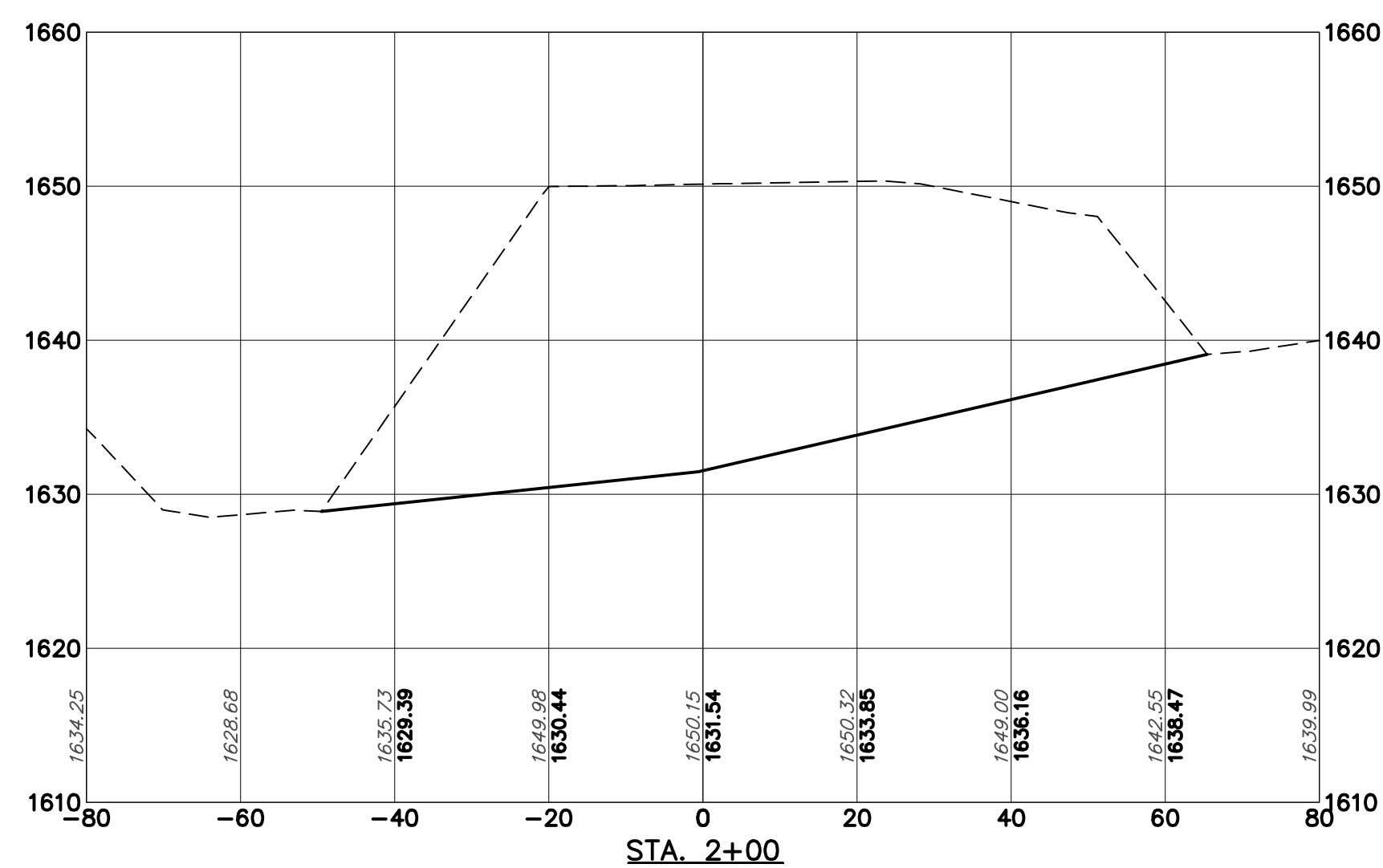
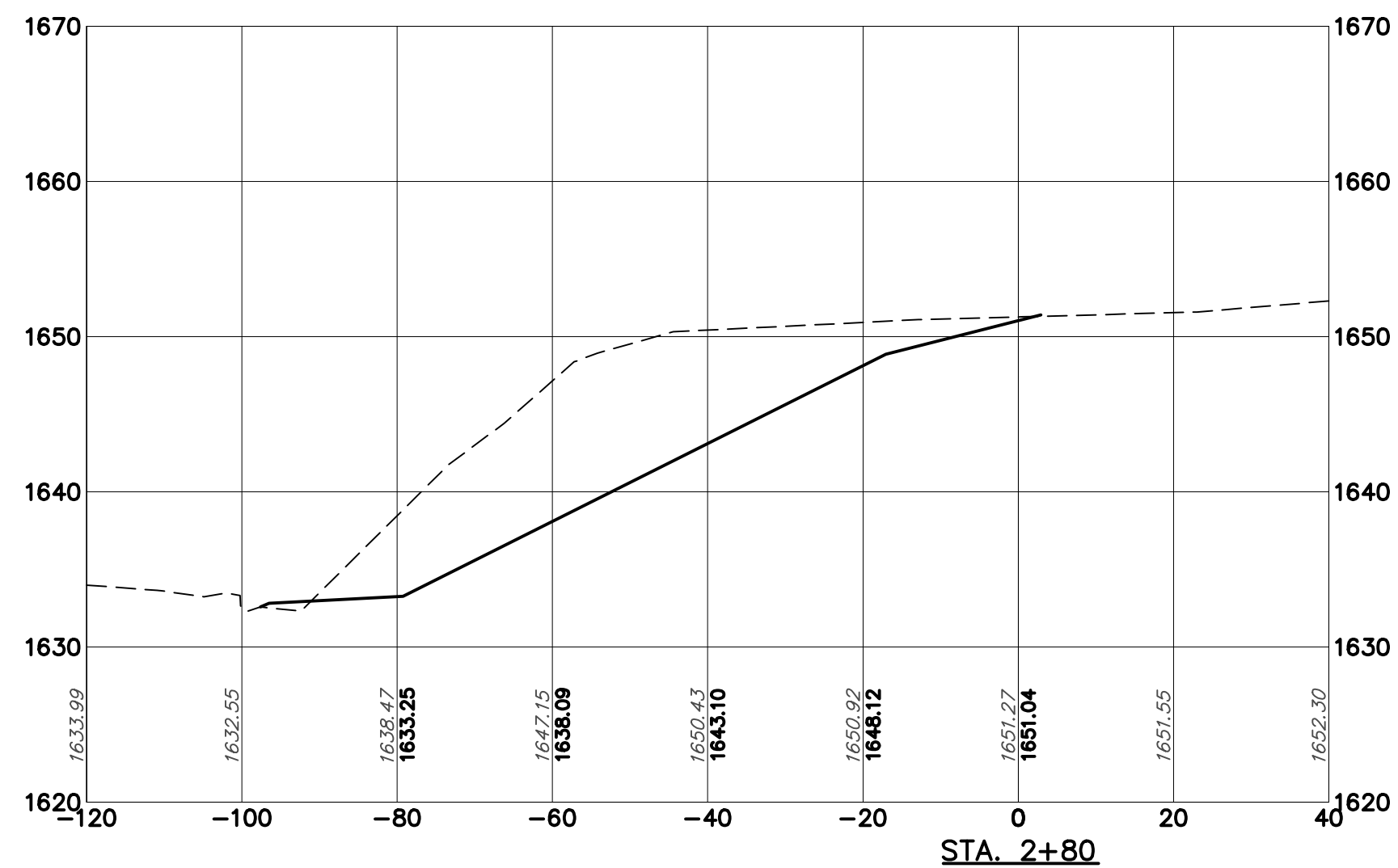
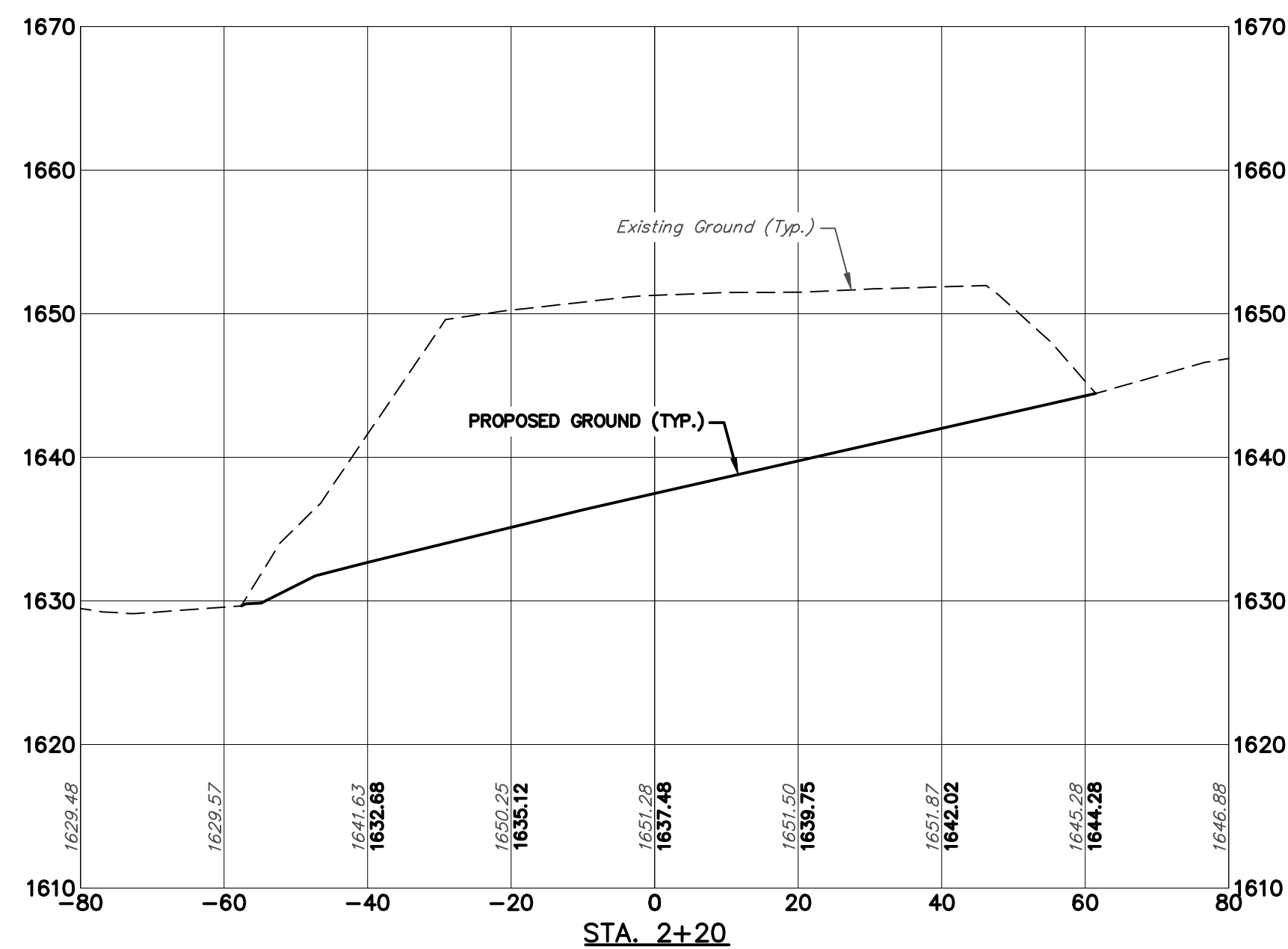
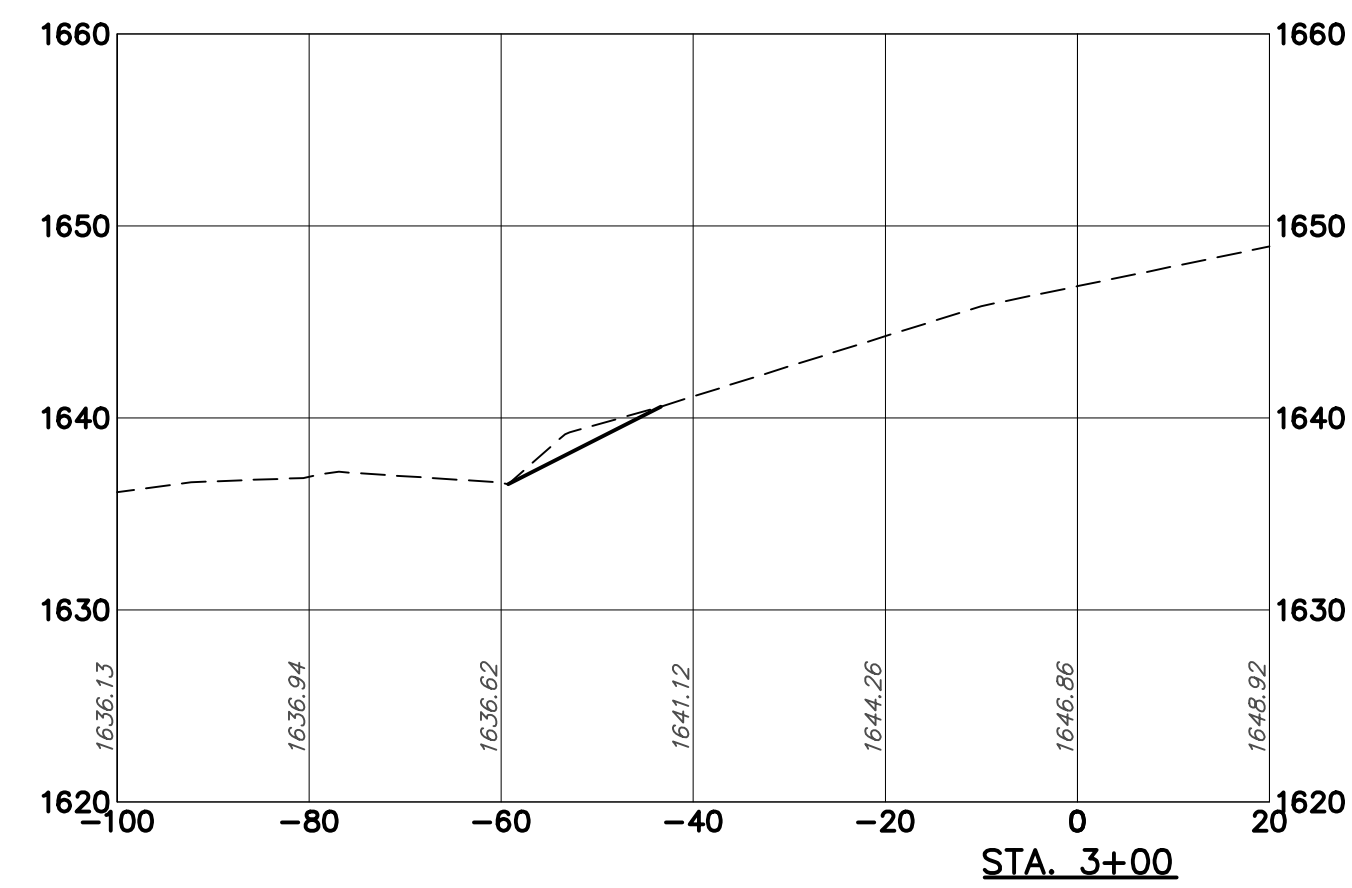
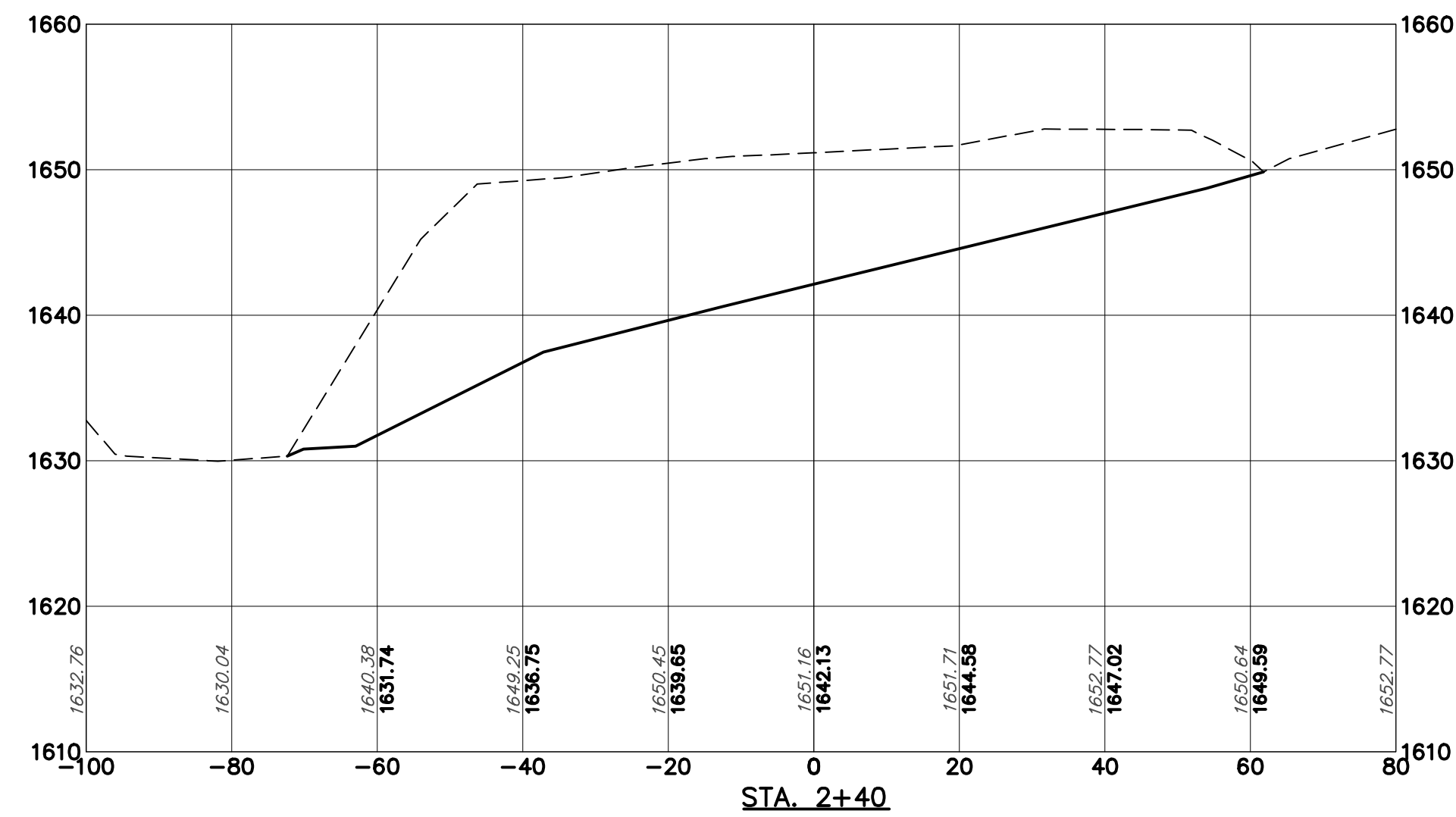




DESIGNED:  
DRAWN BY:  
MPA  
SCALE:  
1"=20' H  
1"=10' V  
DATE:  
12/20/2013

TITLE OF SHEET  
**PILE 2  
CROSS SECTIONS**  
BEAR RUN PHASE IX

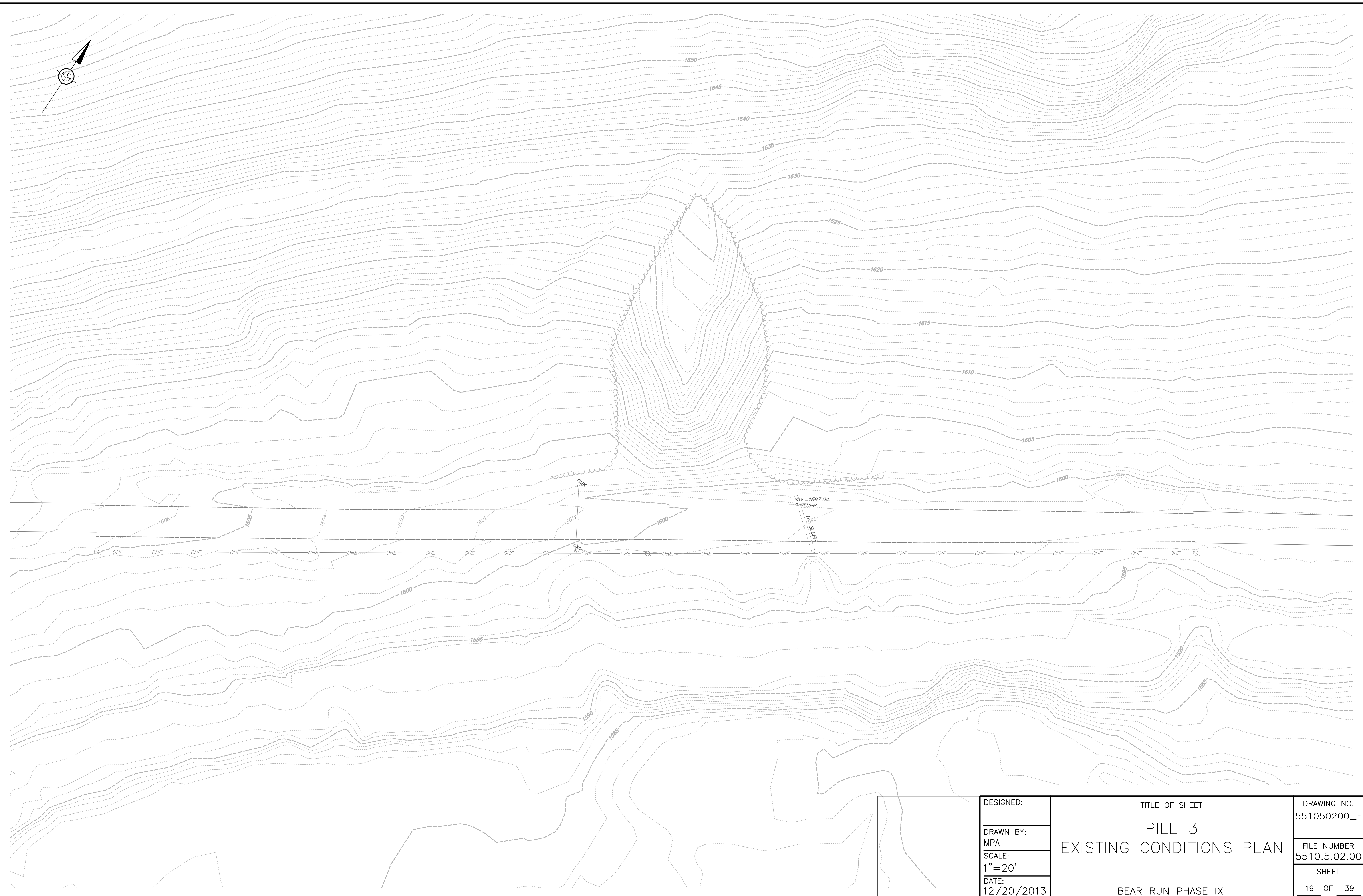
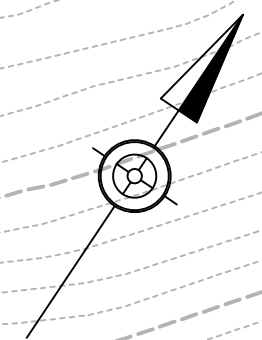
DRAWING NO.  
551050200\_DESIGN  
FILE NUMBER  
5510.5.02.00  
SHEET  
17 OF 39



DESIGNED:  
DRAWN BY:  
MPA  
SCALE: 1"=20' H  
1"=10' V  
DATE:  
12/20/2013

TITLE OF SHEET  
PILE 2  
CROSS SECTIONS  
BEAR RUN PHASE IX

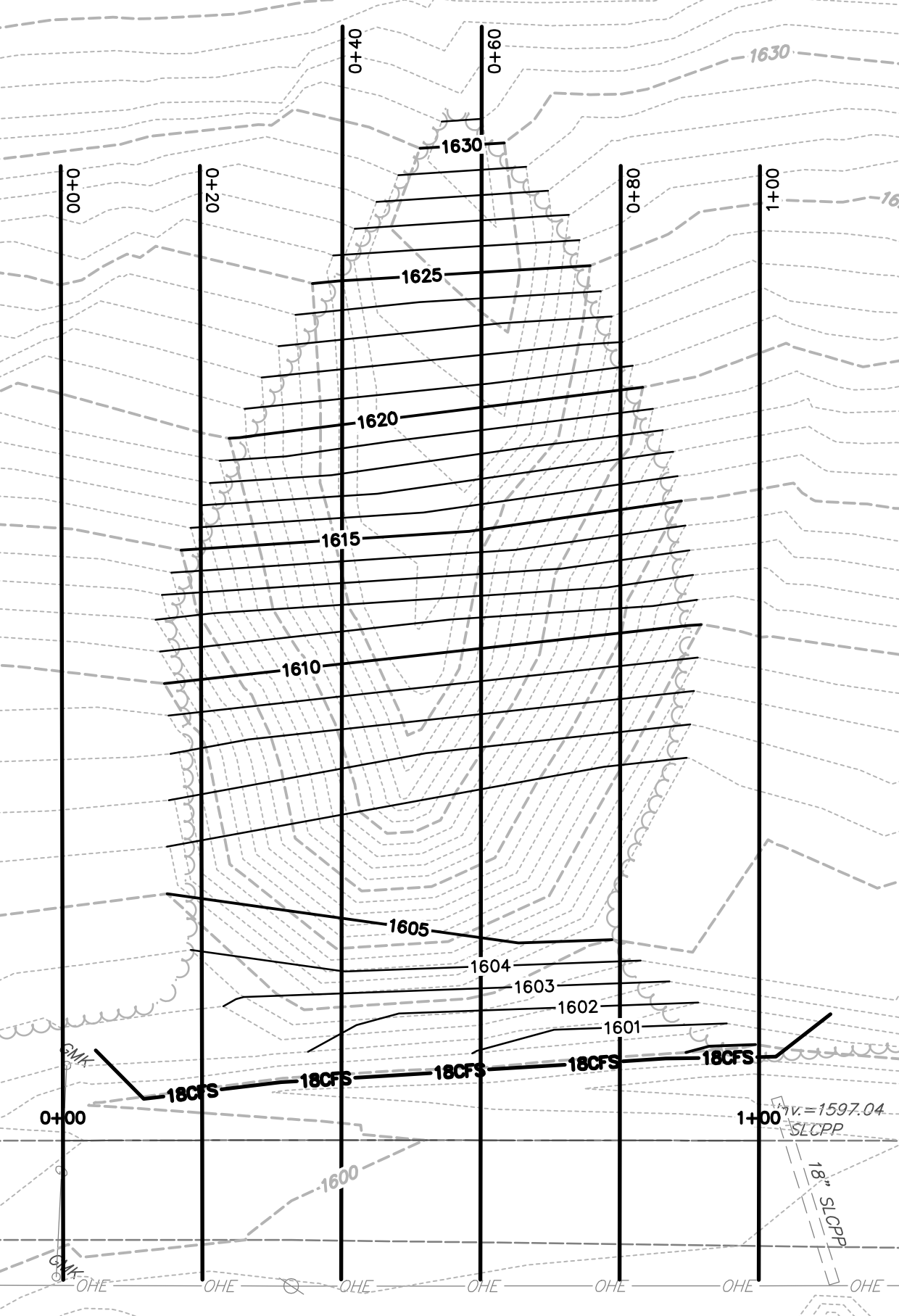
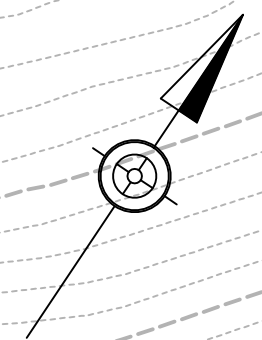
DRAWING NO.  
551050200\_DESIGN  
FILE NUMBER  
5510.5.02.00  
SHEET  
18 OF 39



DESIGNED:  
DRAWN BY:  
MPA  
SCALE:  
1"=20'  
DATE:  
12/20/2013

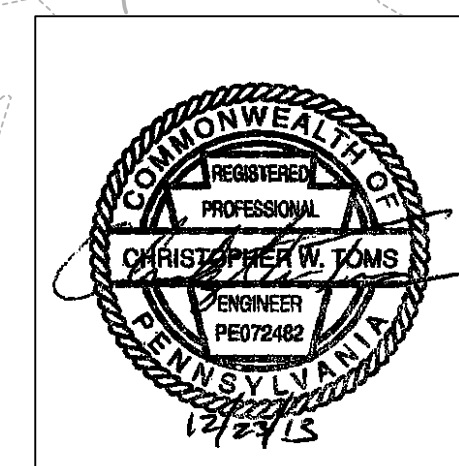
TITLE OF SHEET  
PILE 3  
EXISTING CONDITIONS PLAN  
BEAR RUN PHASE IX

DRAWING NO.  
551050200\_F  
FILE NUMBER  
5510.5.02.00  
SHEET  
19 OF 39



NOTE:  
INSTALL EROSION CONTROL MATTING IN  
ALL AREAS GRADED STEEPER THEN 3:1.

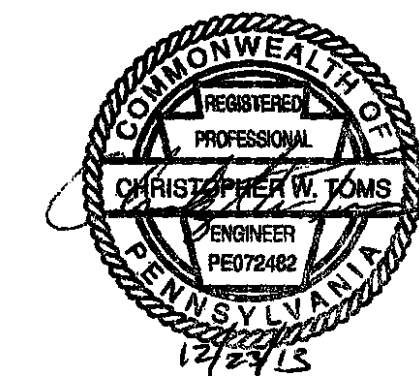
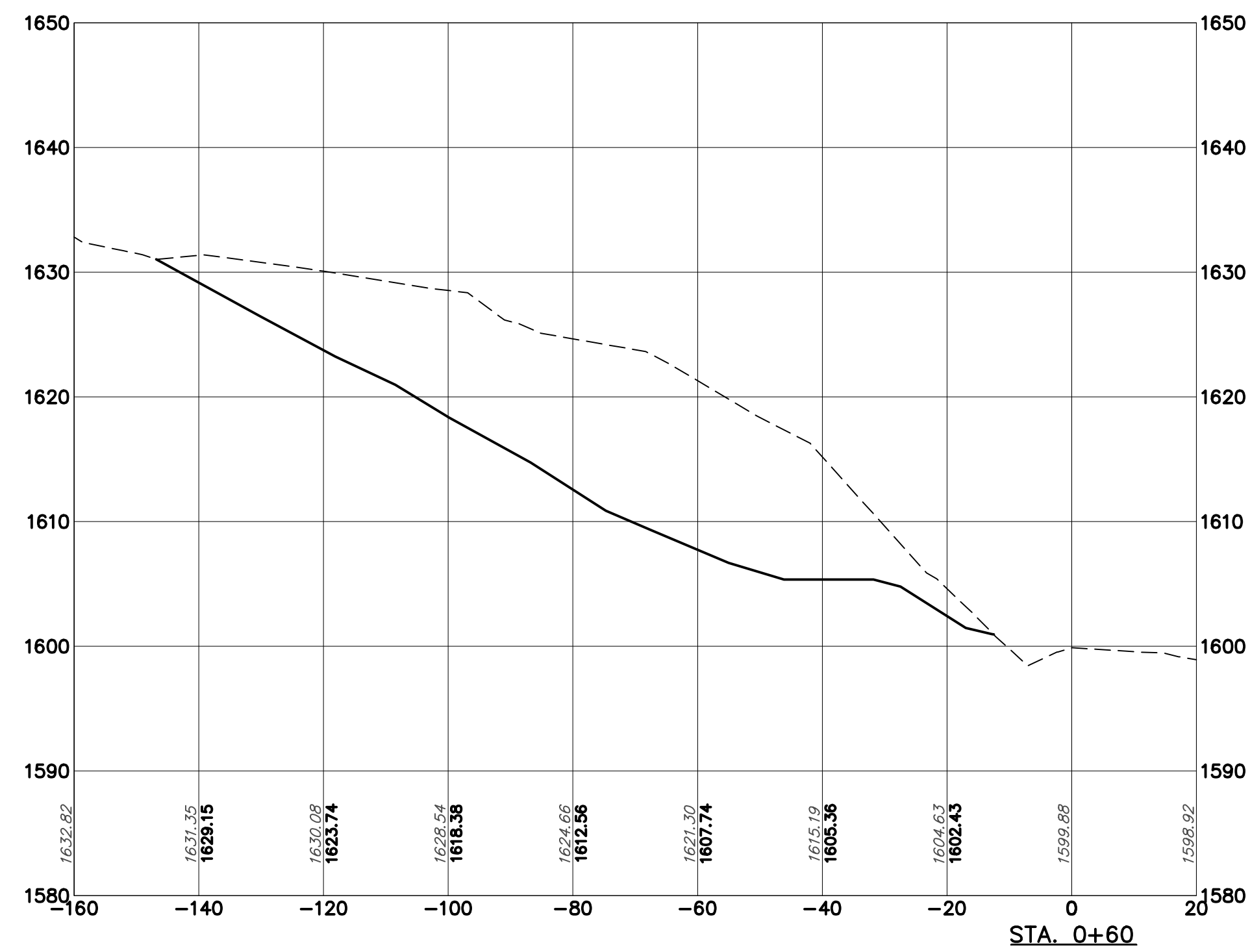
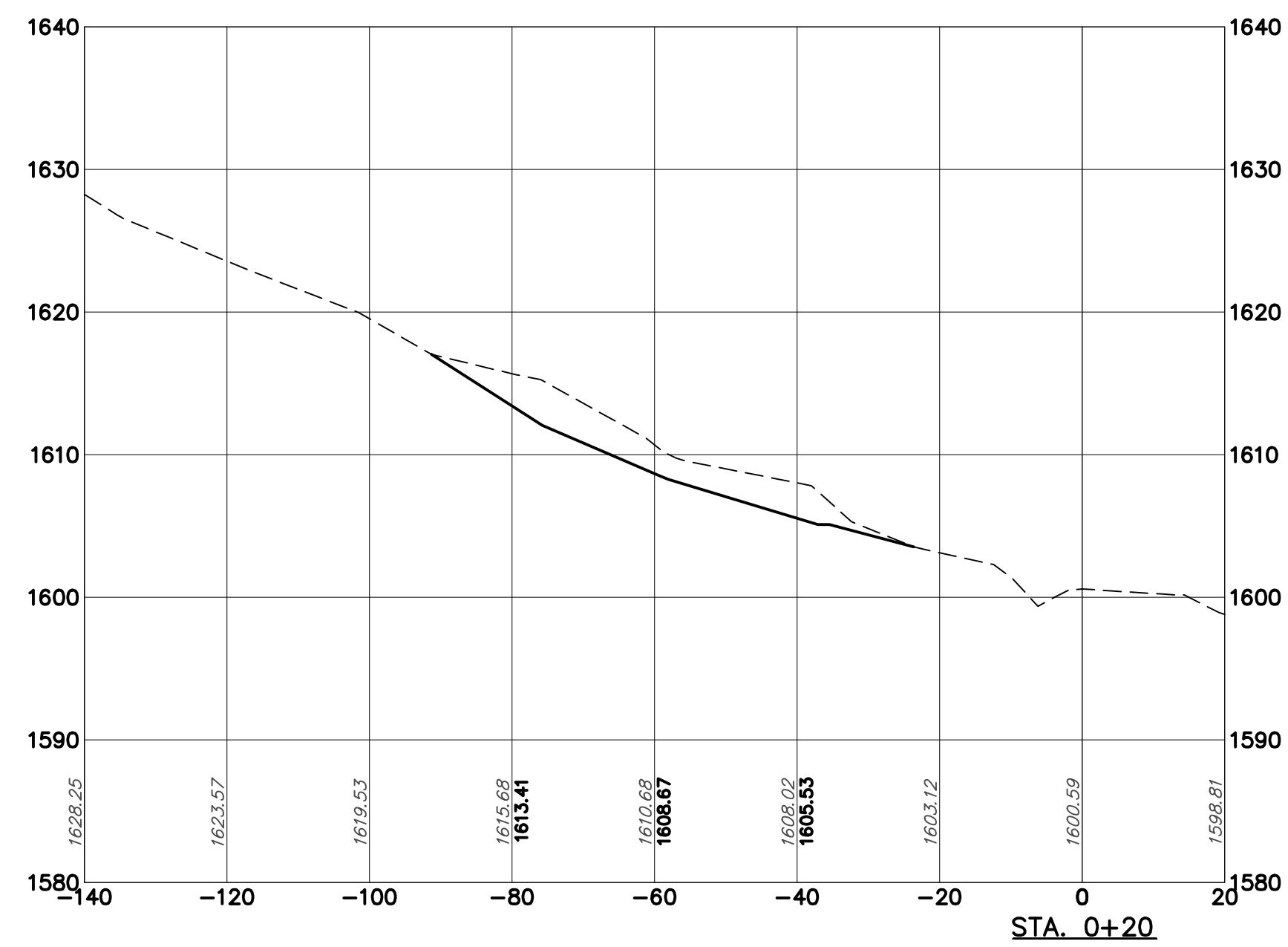
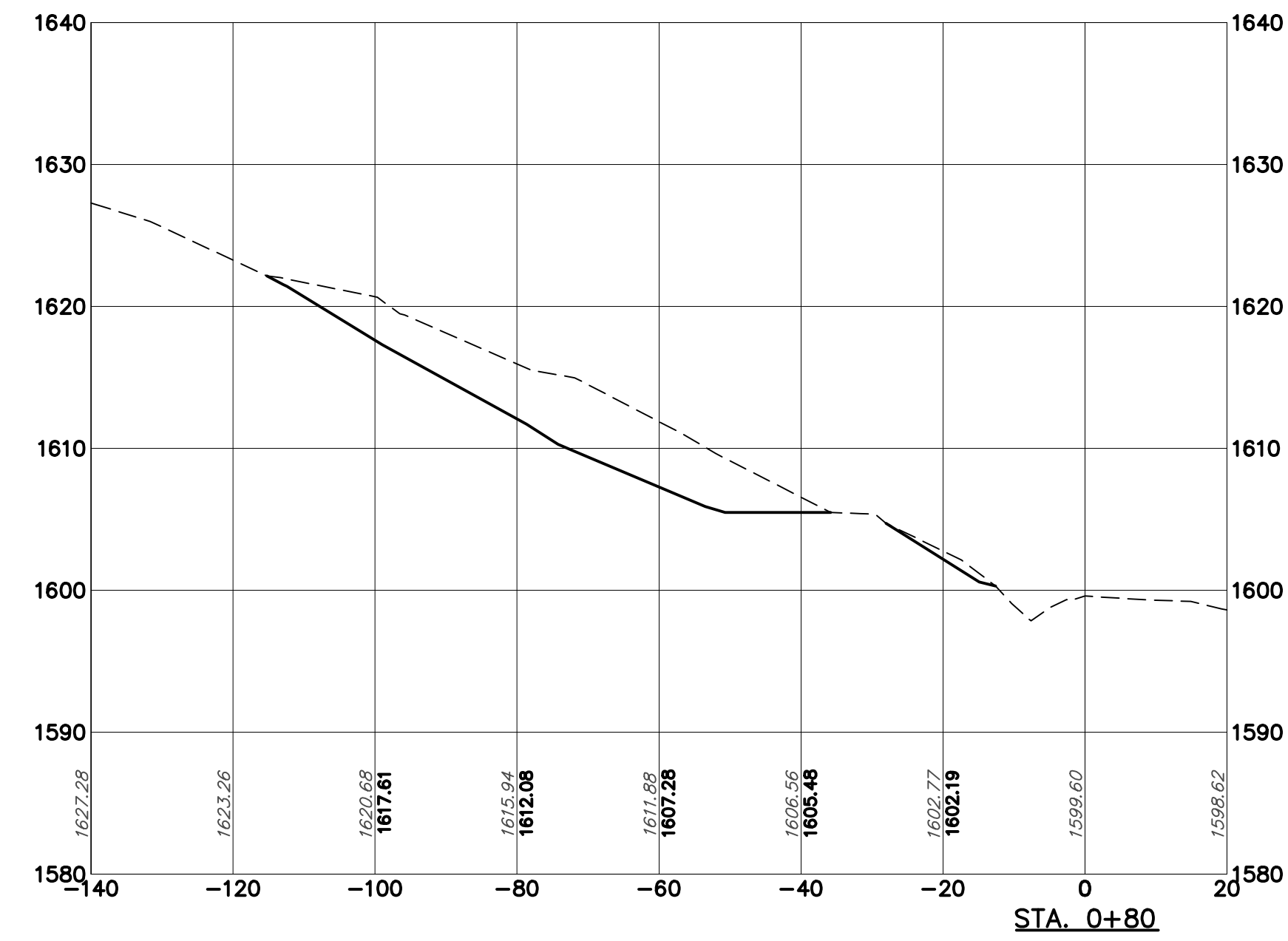
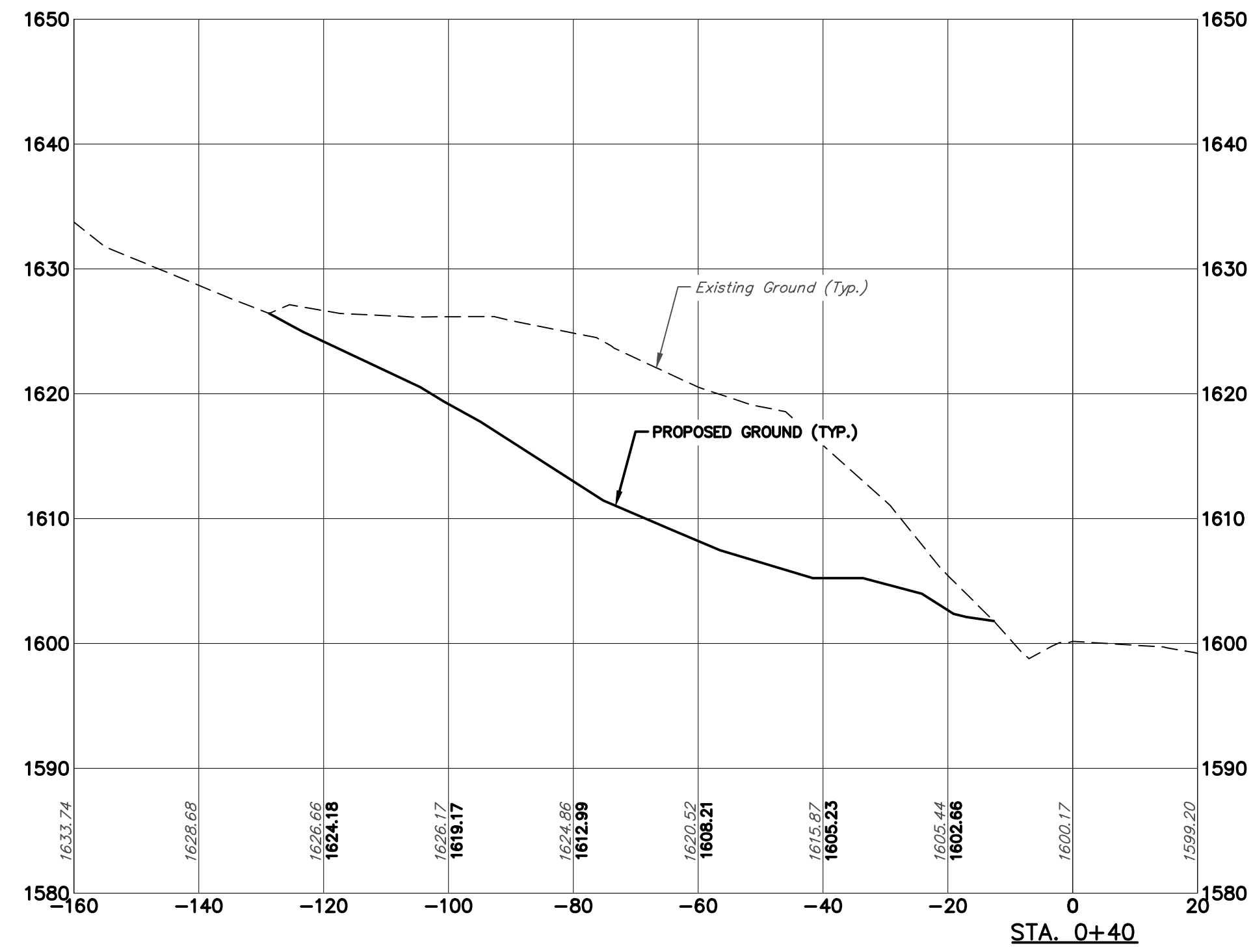
 ANTICIPATED MATTING  
PLACEMENT LOCATIONS



DESIGNED:  
  
DRAWN BY:  
MPA  
SCALE:  
1" = 20'  
DATE:  
12/20/2013

TITLE OF SHEET  
**PILE 3  
GRADING PLAN**  
  
BEAR RUN PHASE IX

DRAWING NO.  
551050200\_A  
  
FILE NUMBER  
55105.02.00  
  
SHEET  
20 OF 39

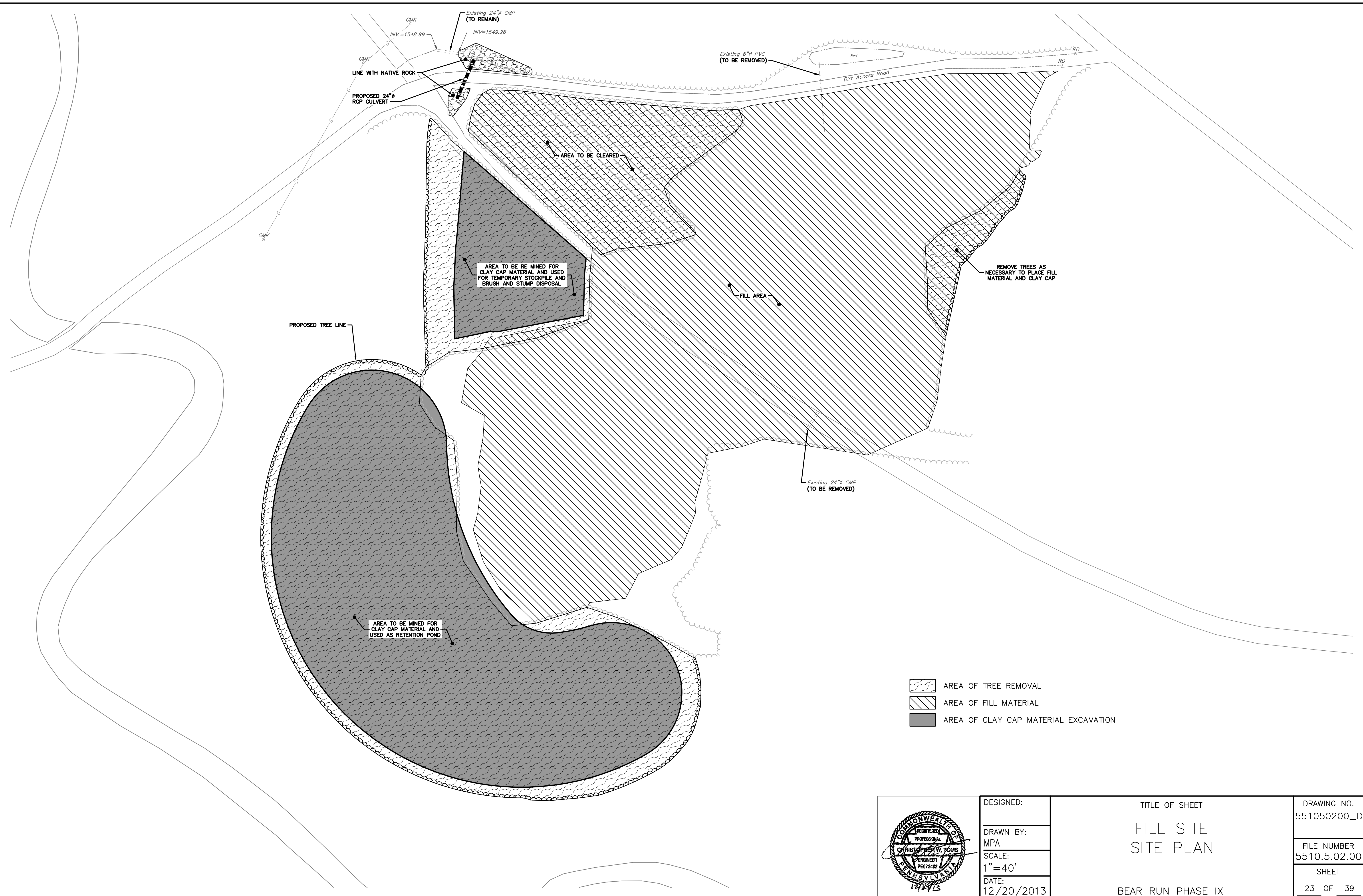





DESIGNED:	TITLE OF SHEET	DRAWING NO.
DRAWN BY:	PILE 3 CROSS SECTIONS	551050200_DESIGN
MPA		FILE NUMBER
SCALE:	BEAR RUN PHASE IX	5510.5.02.00
1"=20' H 1"=10' V		SHEET
DATE:		21 OF 39
12/20/2013		

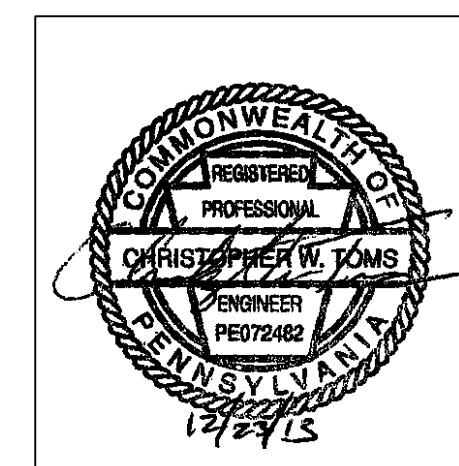


	DESIGNED:	TITLE OF SHEET  <b>FILL SITE EXISTING CONDITIONS PLAN</b>  BEAR RUN PHASE IX	DRAWING NO. 551050200_F
	DRAWN BY: MPA		FILE NUMBER 5510.5.02.00
	SCALE: 1"=40'		SHEET 22 OF 39
	DATE: 12/20/2013		

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-  AREA OF TREE REMOVAL
-  AREA OF FILL MATERIAL
-  AREA OF CLAY CAP MATERIAL EXCAVATION

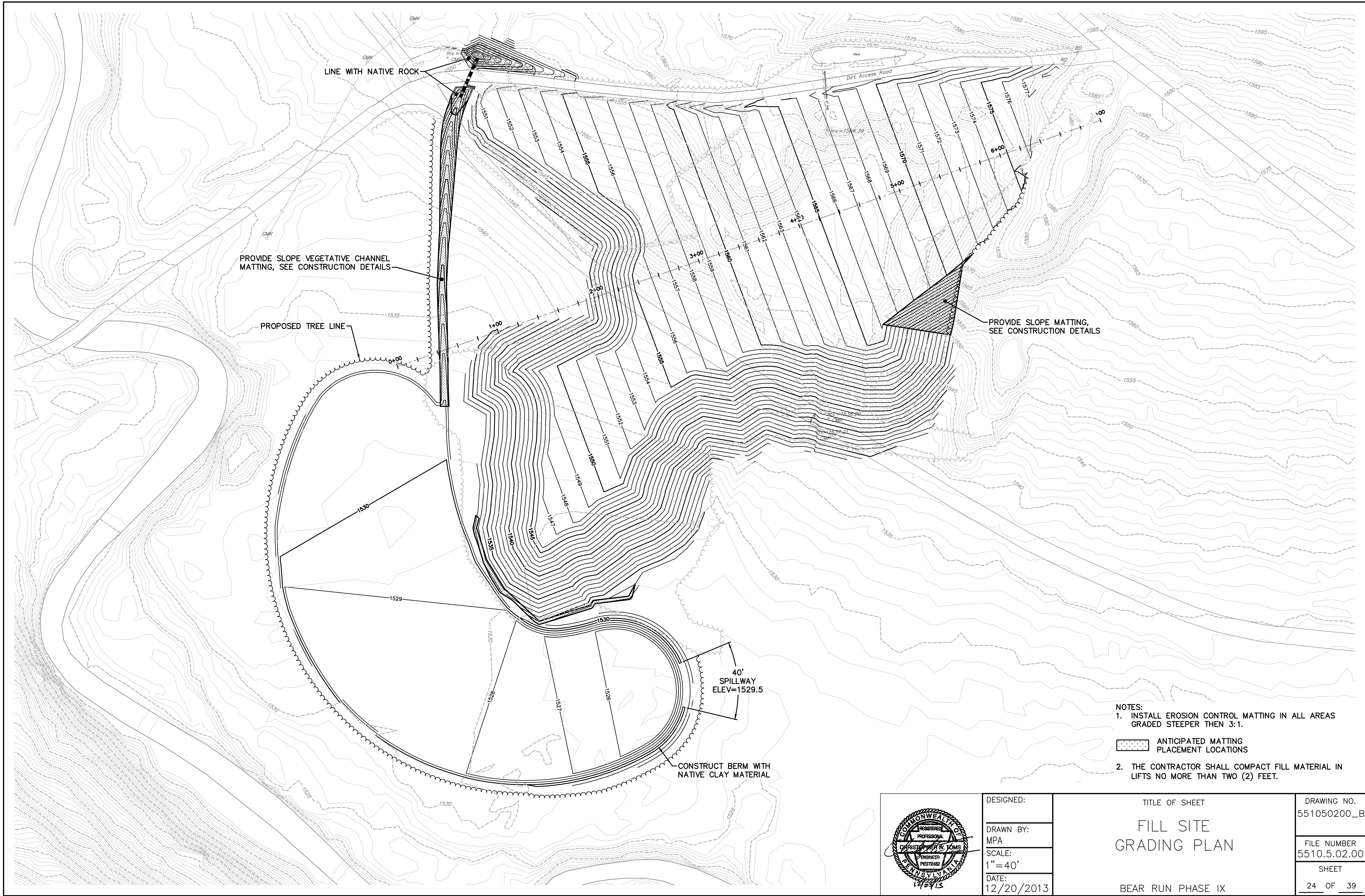


DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE:  
 1"=40'  
 DATE:  
 12/20/2013

TITLE OF SHEET  
**FILL SITE  
 SITE PLAN**  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_D  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 23 OF 39

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PROVIDE SLOPE VEGETATIVE CHANNEL MATTING, SEE CONSTRUCTION DETAILS

PROPOSED TREE LINE

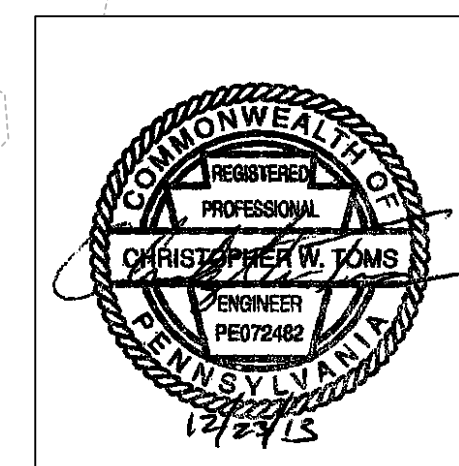
PROVIDE SLOPE MATTING, SEE CONSTRUCTION DETAILS

40' SPILLWAY  
ELEV=1529.5

CONSTRUCT BERM WITH NATIVE CLAY MATERIAL

- NOTES:
1. INSTALL EROSION CONTROL MATTING IN ALL AREAS GRADED STEEPER THEN 3:1.
  2. THE CONTRACTOR SHALL COMPACT FILL MATERIAL IN LIFTS NO MORE THAN TWO (2) FEET.

ANTICIPATED MATTING PLACEMENT LOCATIONS



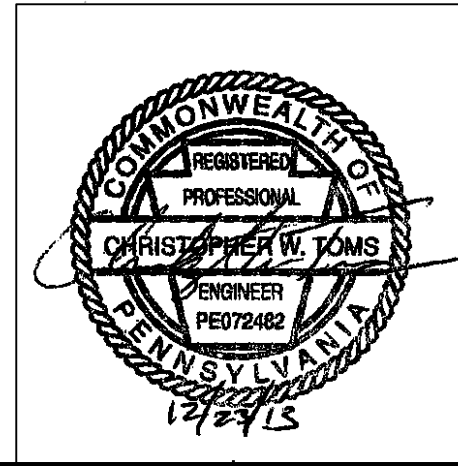
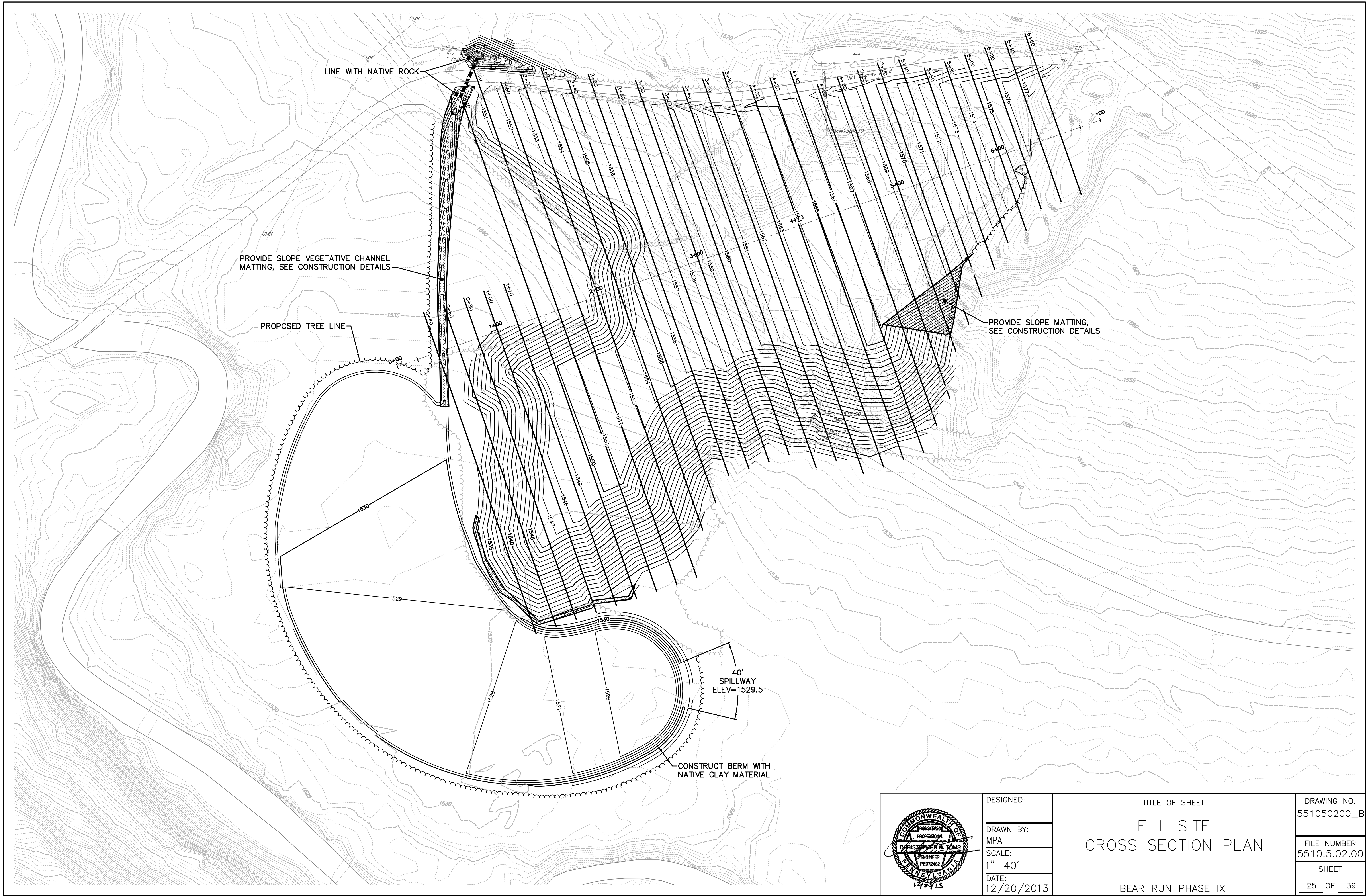
DESIGNED:  
DRAWN BY: MPA  
SCALE: 1"=40'  
DATE: 12/20/2013

TITLE OF SHEET  
**FILL SITE GRADING PLAN**  
BEAR RUN PHASE IX

DRAWING NO. 551050200\_B  
FILE NUMBER 5510.5.02.00  
SHEET 24 OF 39

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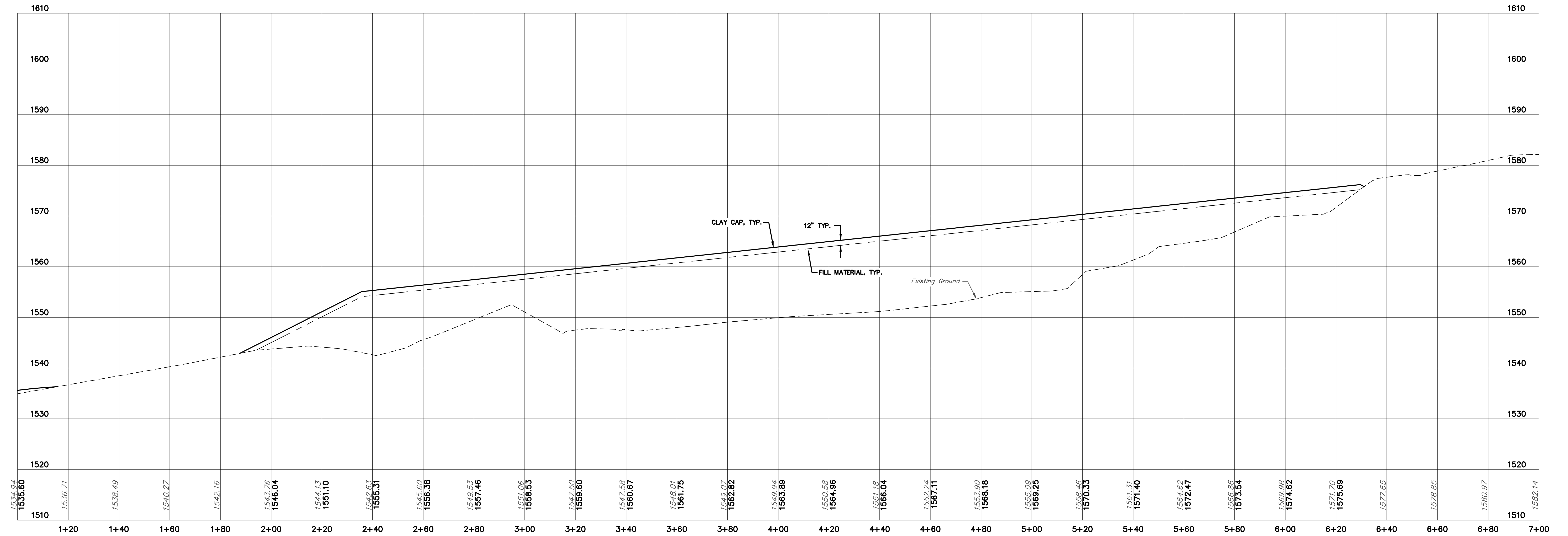




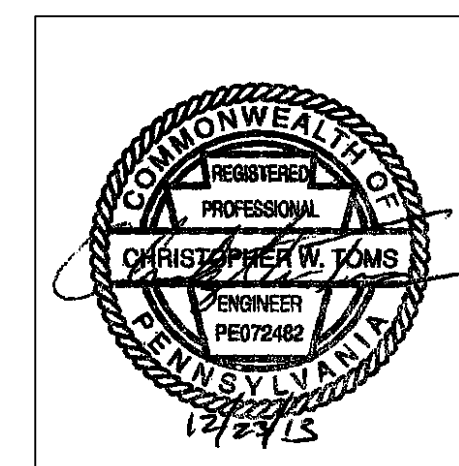
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 SCALE: 1"=40'  
 DATE: 12/20/2013

TITLE OF SHEET  
 FILL SITE  
 CROSS SECTION PLAN  
 BEAR RUN PHASE IX

DRAWING NO. 551050200\_B  
 FILE NUMBER 5510.5.02.00  
 SHEET 25 OF 39



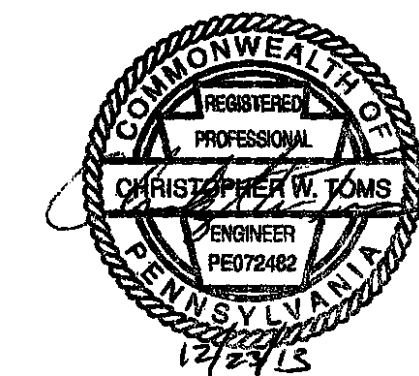
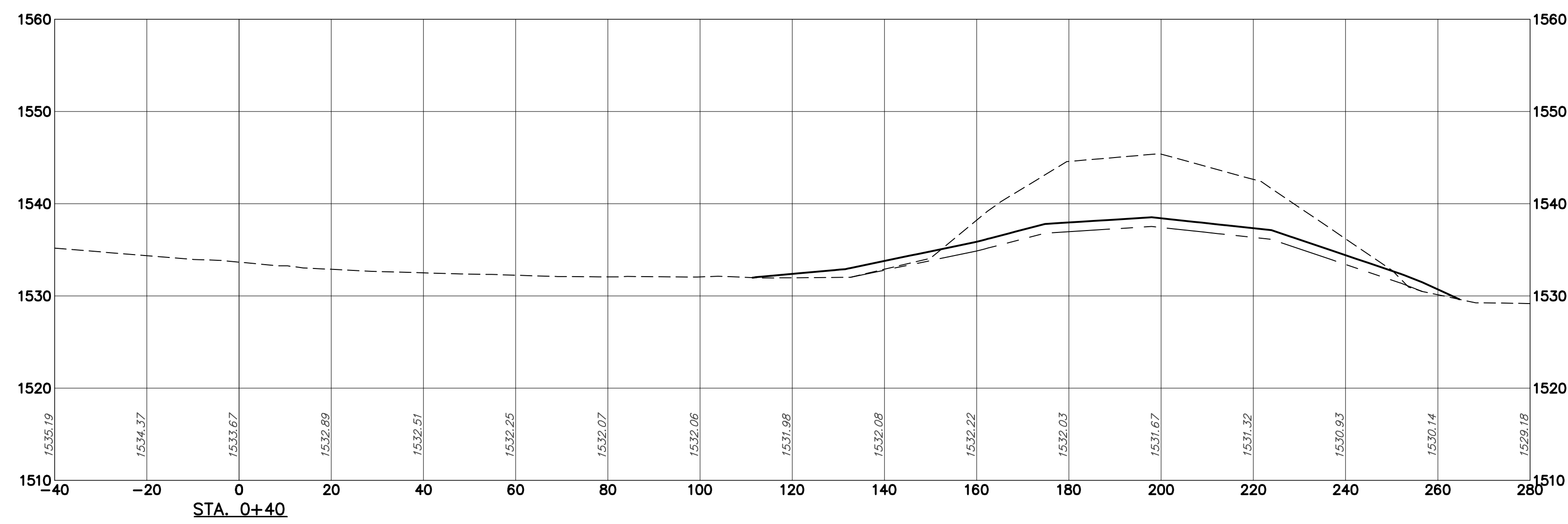
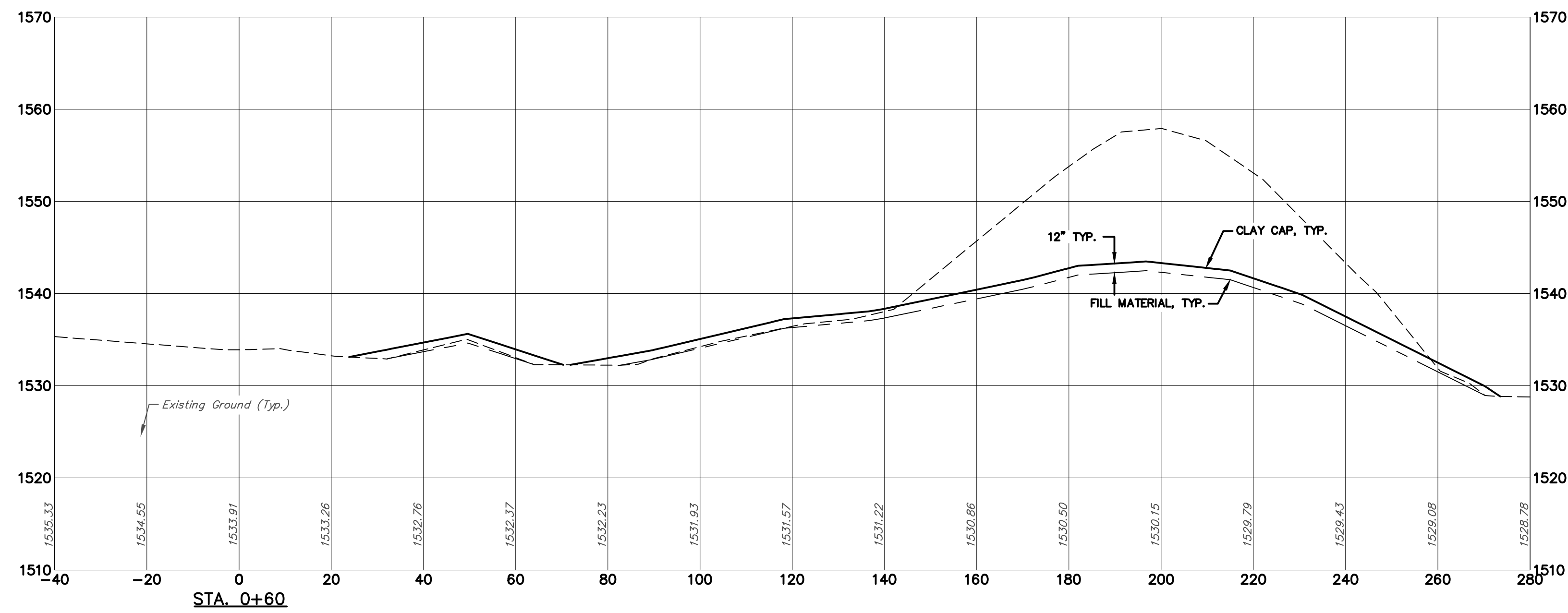
FILL SITE - PROFILE  
H: 1" = 20'  
V: 1" = 10'



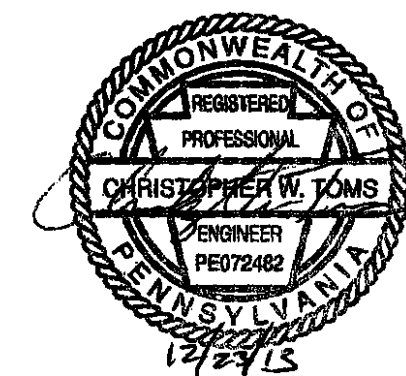
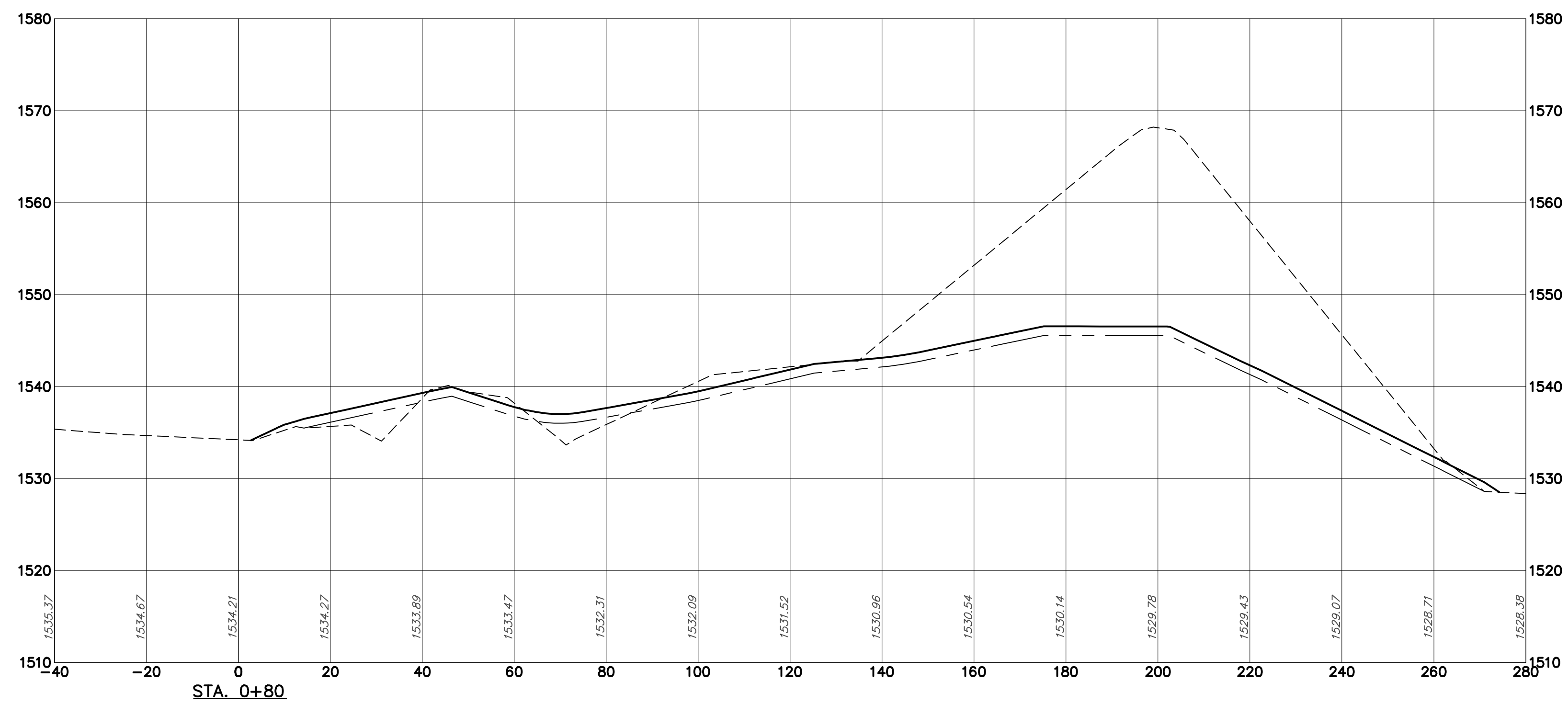
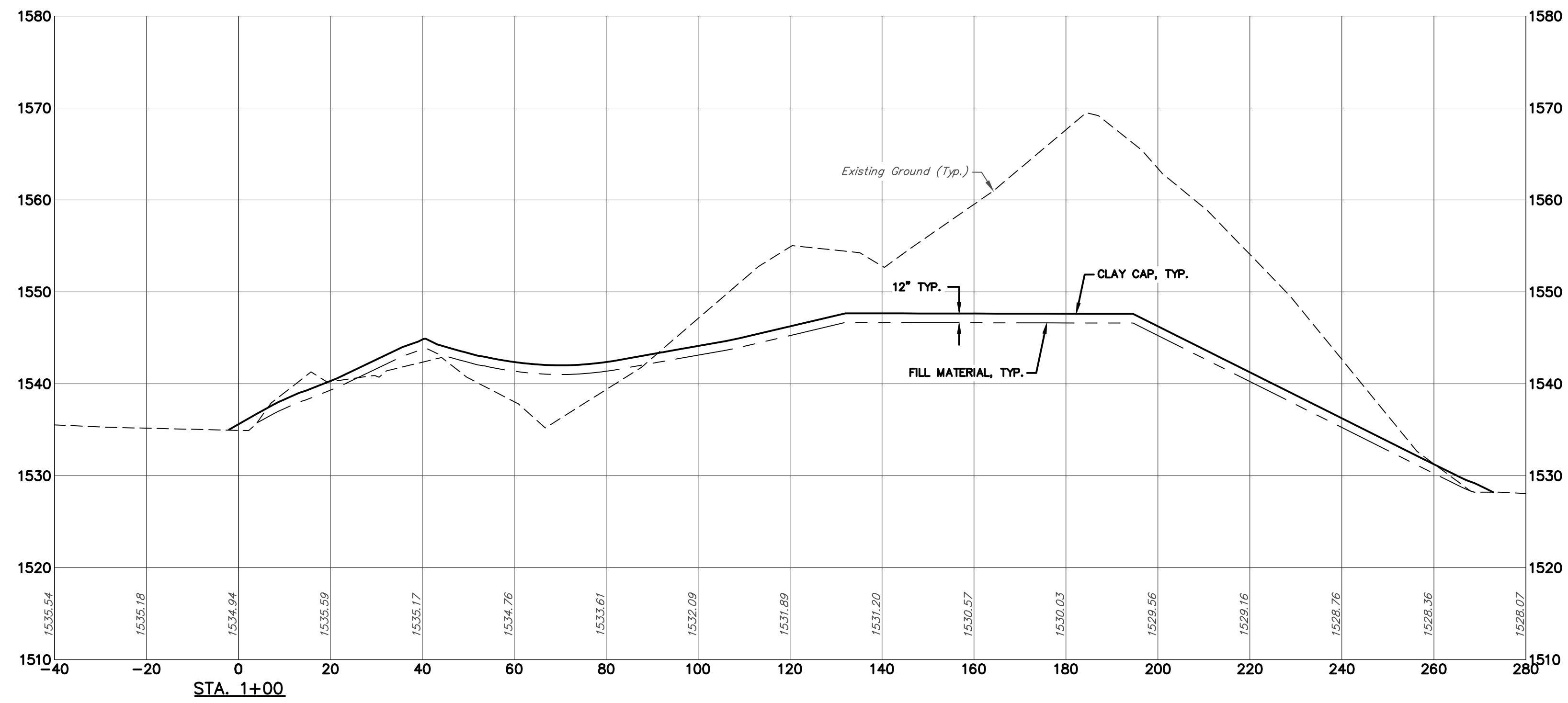
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DRAWN BY:  
MPA  
SCALE:  
1" = 30'  
DATE:  
12/20/2013

TITLE OF SHEET  
FILL SITE GRADING PLAN  
BEAR RUN PHASE IX

DRAWING NO.  
551050200\_B  
FILE NUMBER  
5510.5.02.00  
SHEET  
26 OF 39

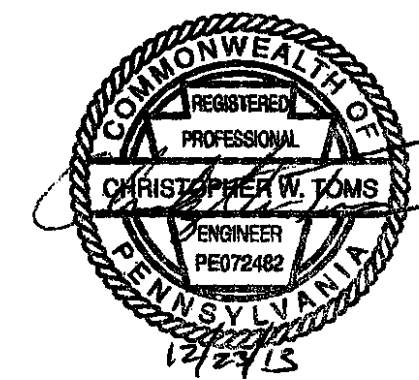
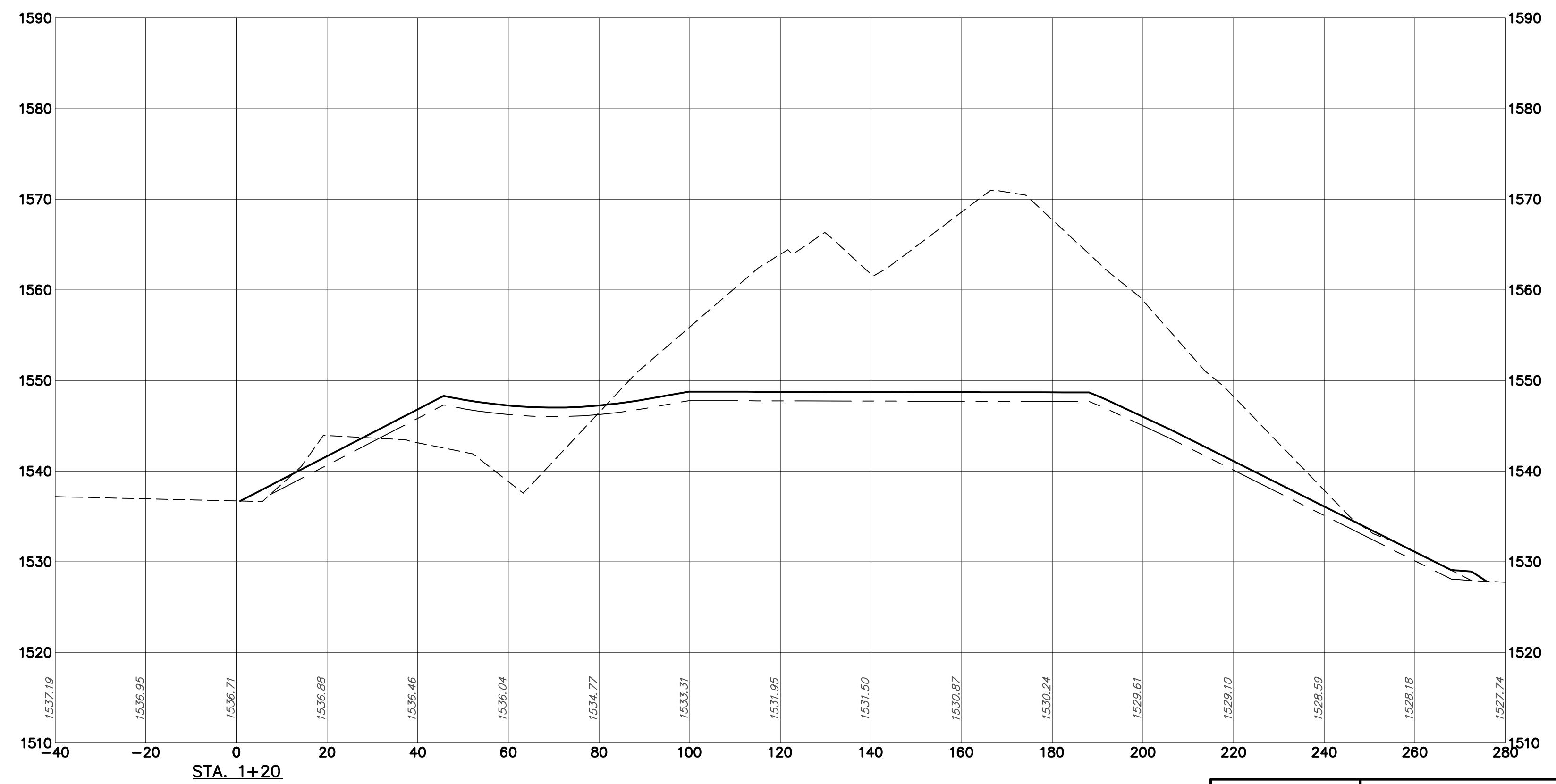
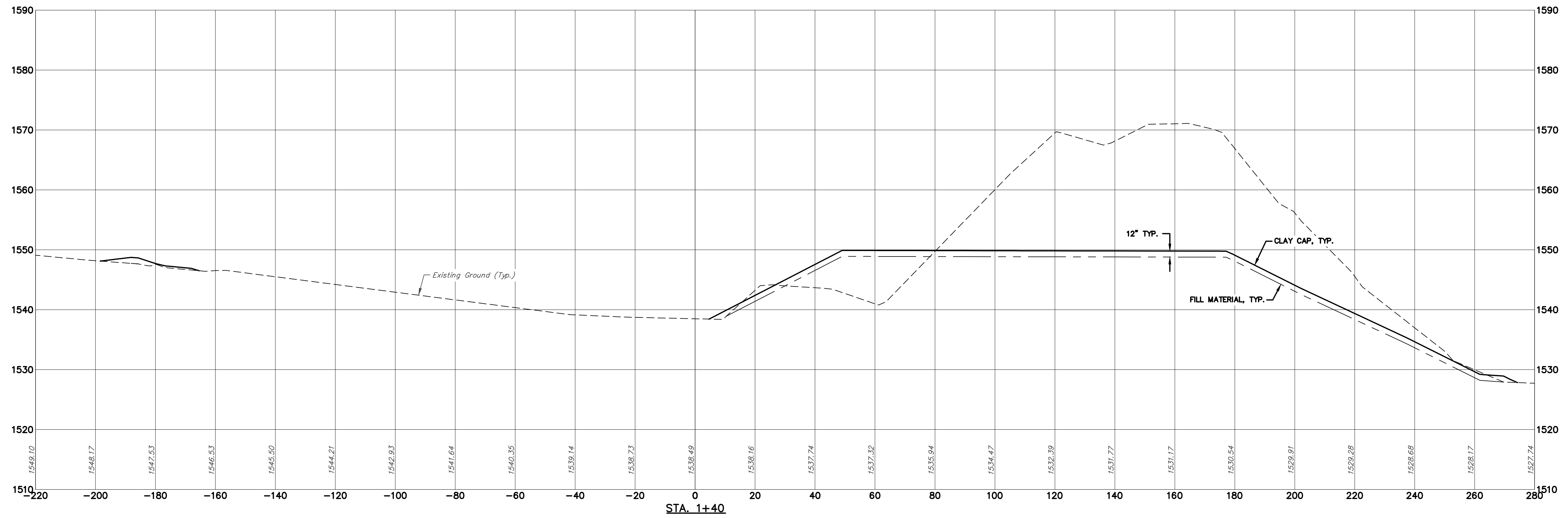


DESIGNED:	TITLE OF SHEET	DRAWING NO.
DRAWN BY: MPA	FILL SITE CROSS SECTIONS	551050200_DESIGN
SCALE: 1"=20' H 1"=10' V	BEAR RUN PHASE IX	FILE NUMBER 5510.5.02.00
DATE: 12/20/2013		SHEET 27 OF 39



DESIGNED:	TITLE OF SHEET	DRAWING NO.
DRAWN BY: MPA	FILL SITE CROSS SECTIONS	551050200_DESIGN
SCALE: 1"=20' H 1"=10' V	BEAR RUN PHASE IX	FILE NUMBER 5510.5.02.00
DATE: 12/20/2013		SHEET 28 OF 39

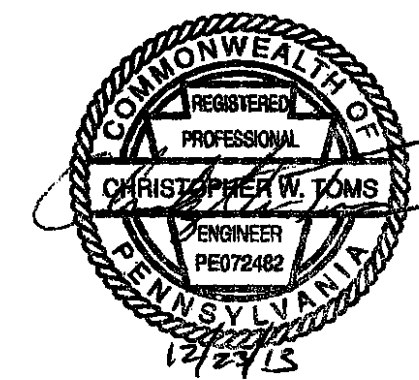
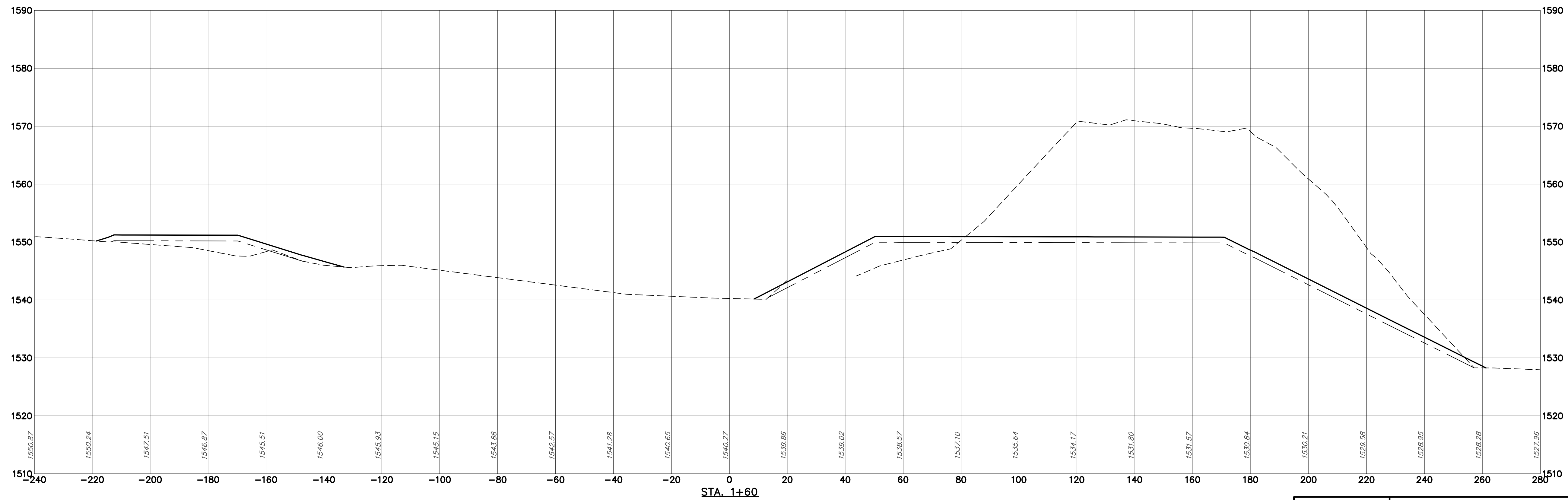
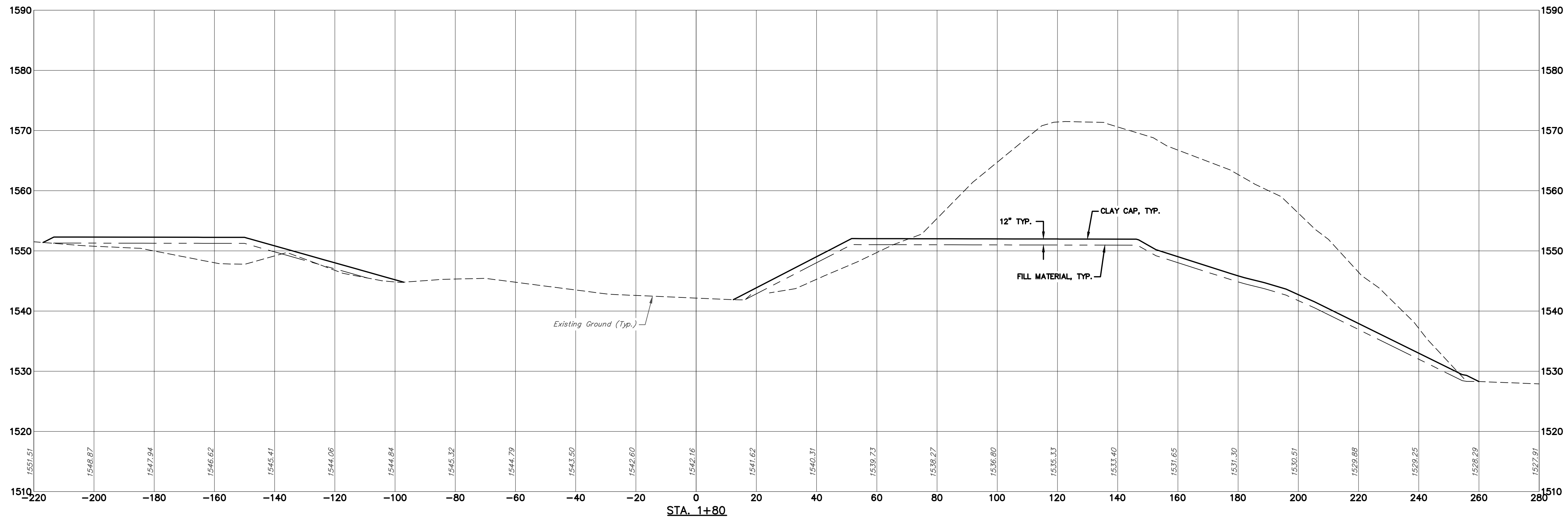
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 DRAWN BY:  
 MPA  
 SCALE: 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
 FILL SITE  
 CROSS SECTIONS  
 BEAR RUN PHASE IX

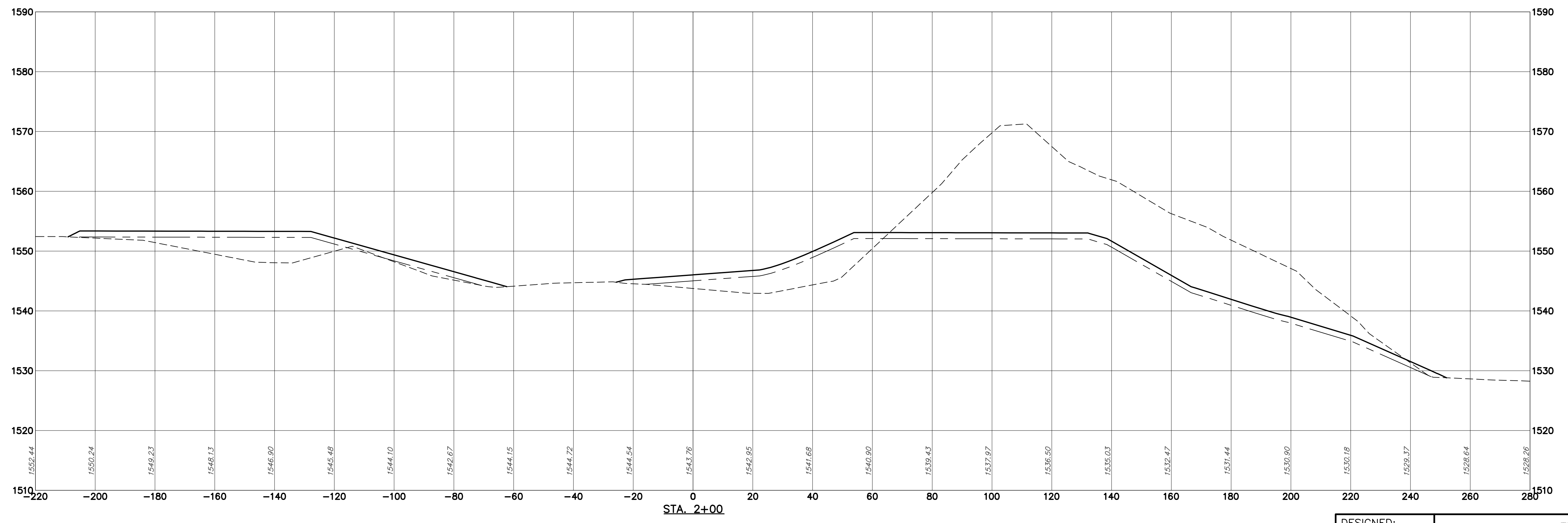
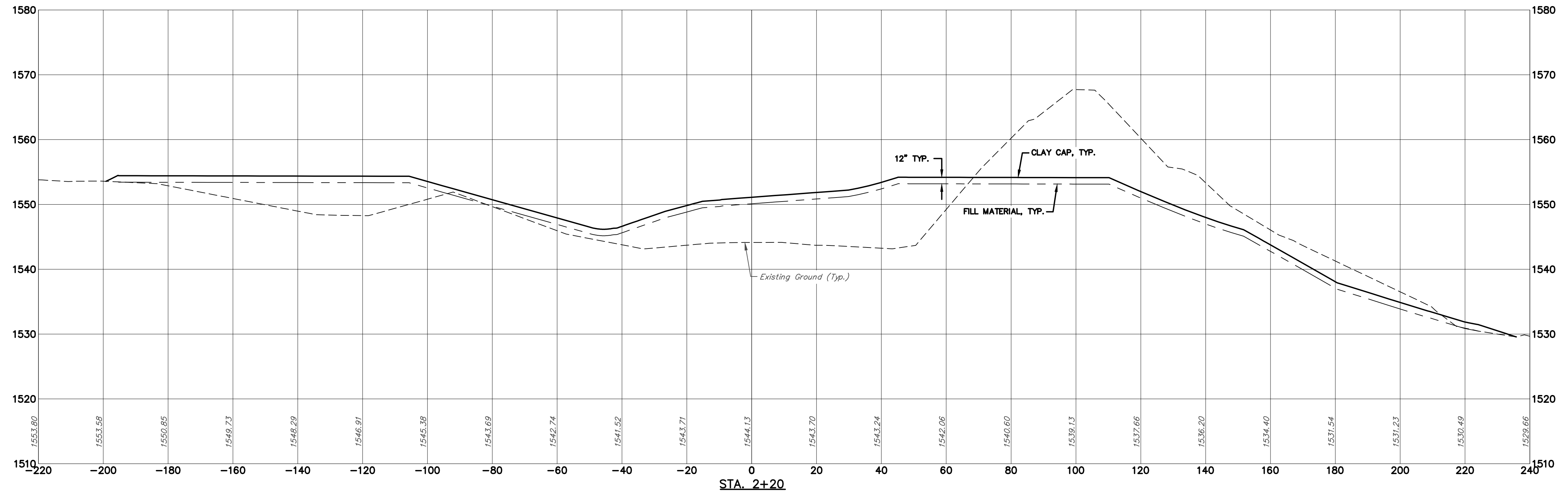
DRAWING NO.  
 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 29 OF 39



DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE: 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
 FILL SITE  
 CROSS SECTIONS  
 BEAR RUN PHASE IX

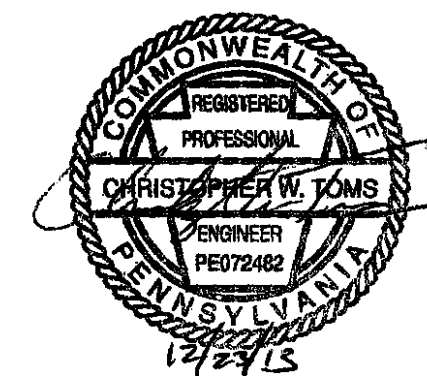
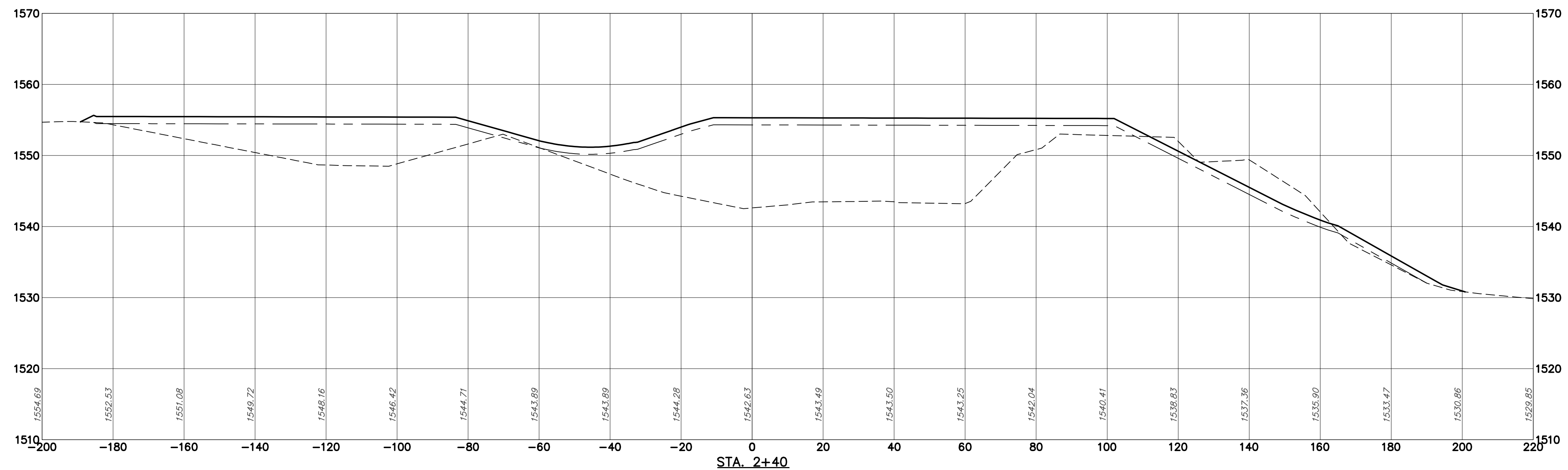
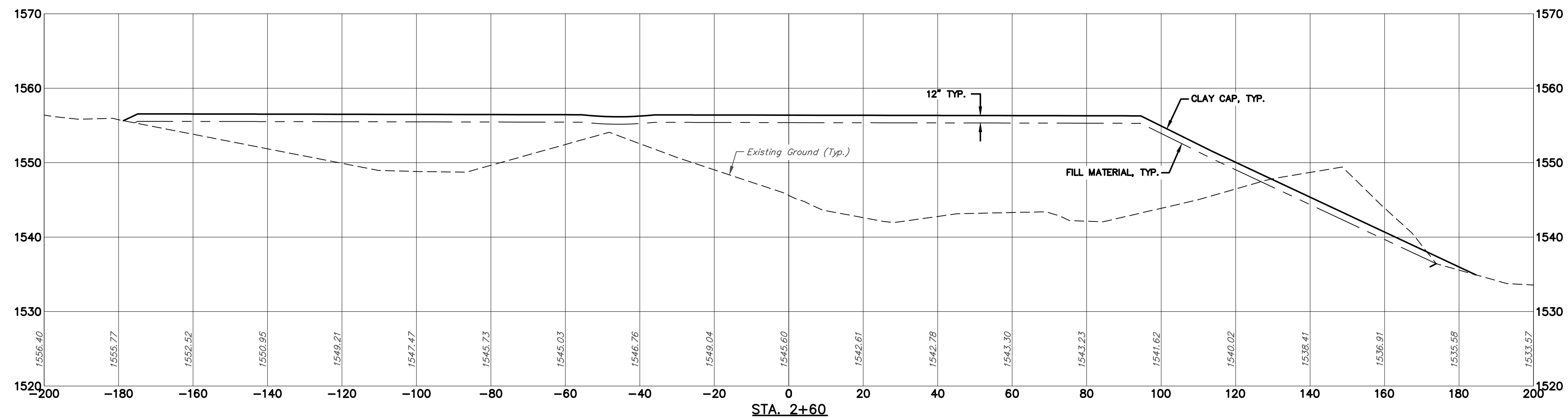
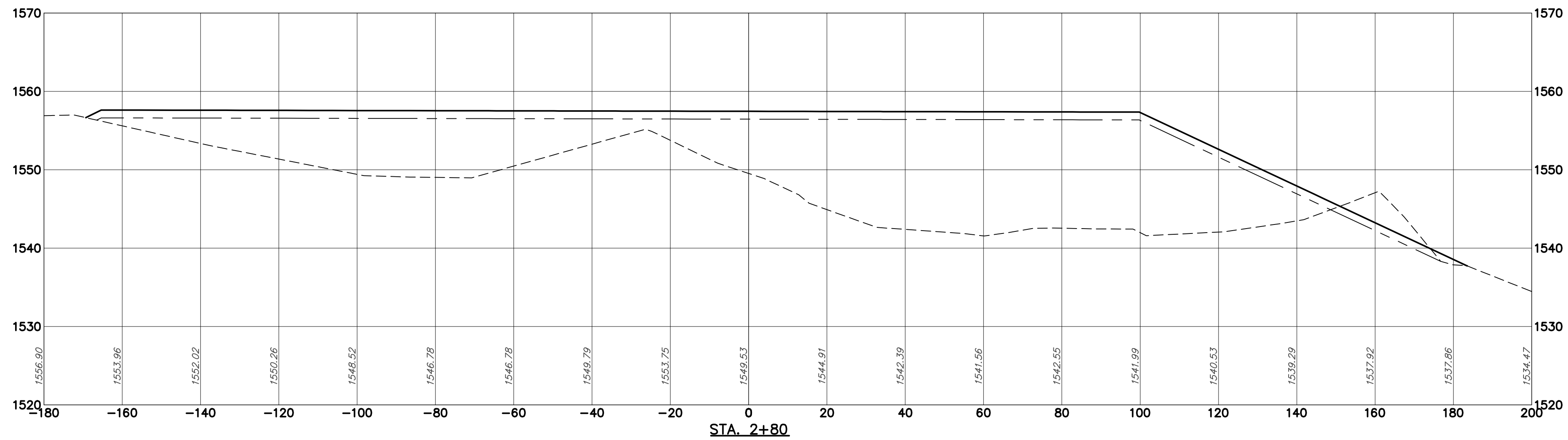
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 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 30 OF 39



DESIGNED:  
 DRAWN BY:  
 MPA  
 SCALE:  
 1"=20' H  
 1"=10' V  
 DATE:  
 12/20/2013

TITLE OF SHEET  
 FILL SITE  
 CROSS SECTIONS  
 BEAR RUN PHASE IX

DRAWING NO.  
 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 31 OF 39

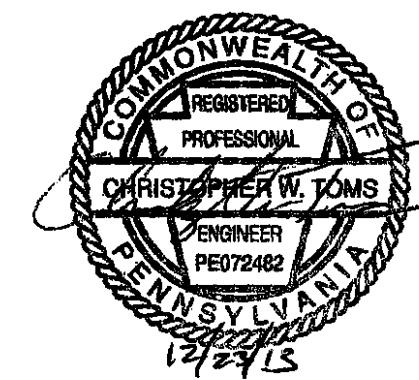
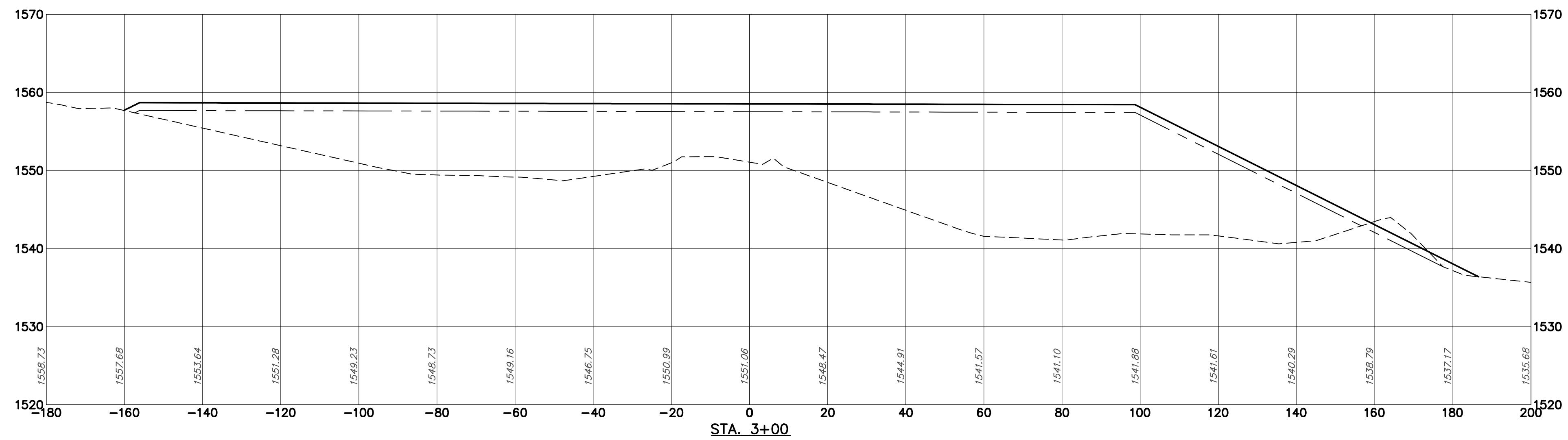
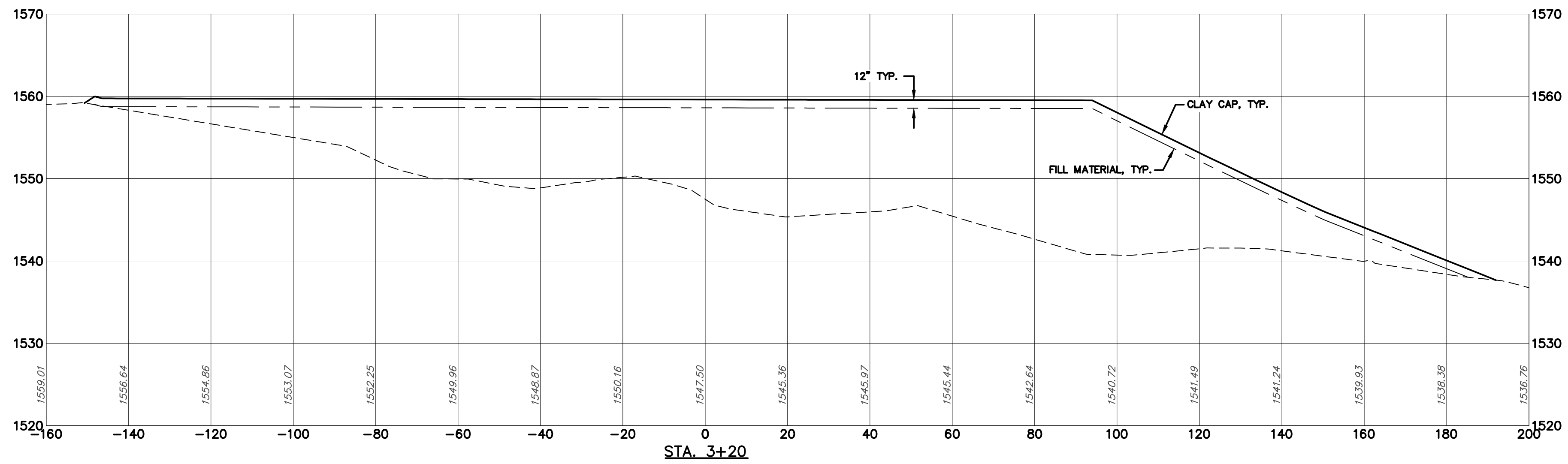
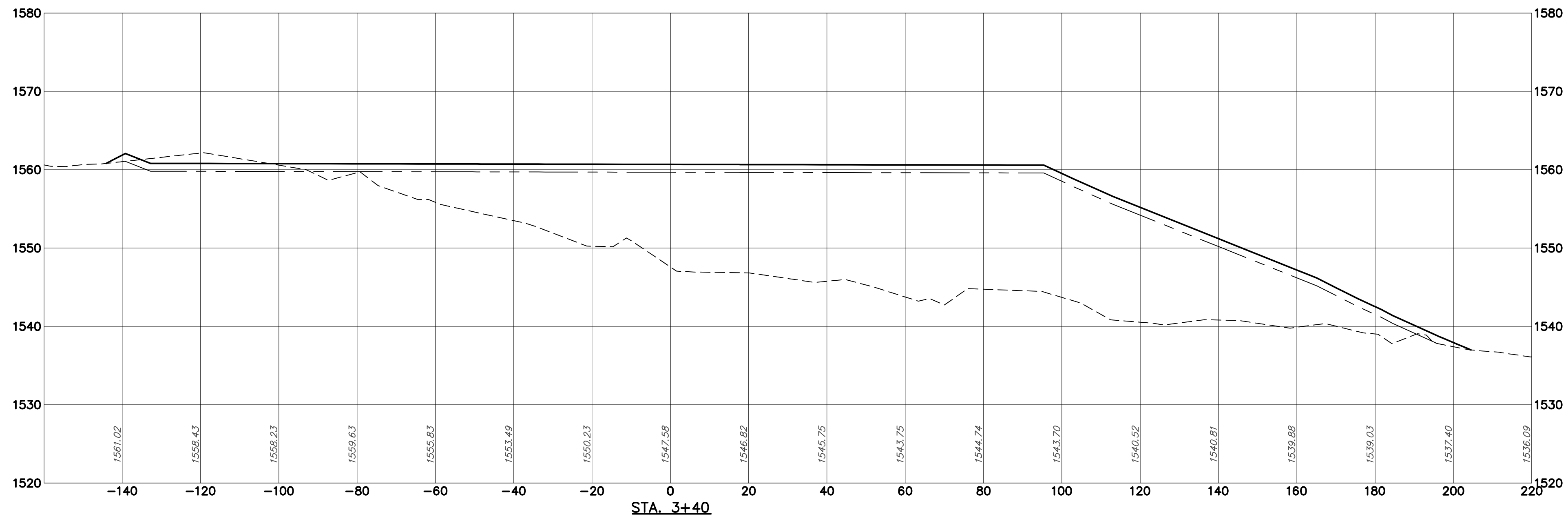


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 SCALE: 1"=20' H  
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 DATE:  
 12/20/2013

TITLE OF SHEET  
 FILL SITE  
 CROSS SECTIONS  
 BEAR RUN PHASE IX

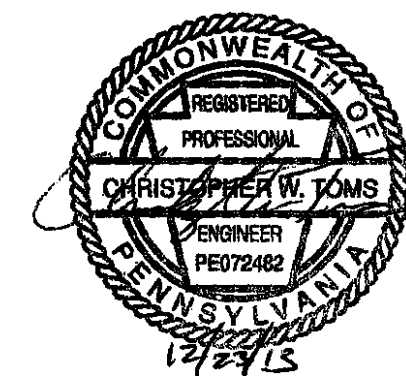
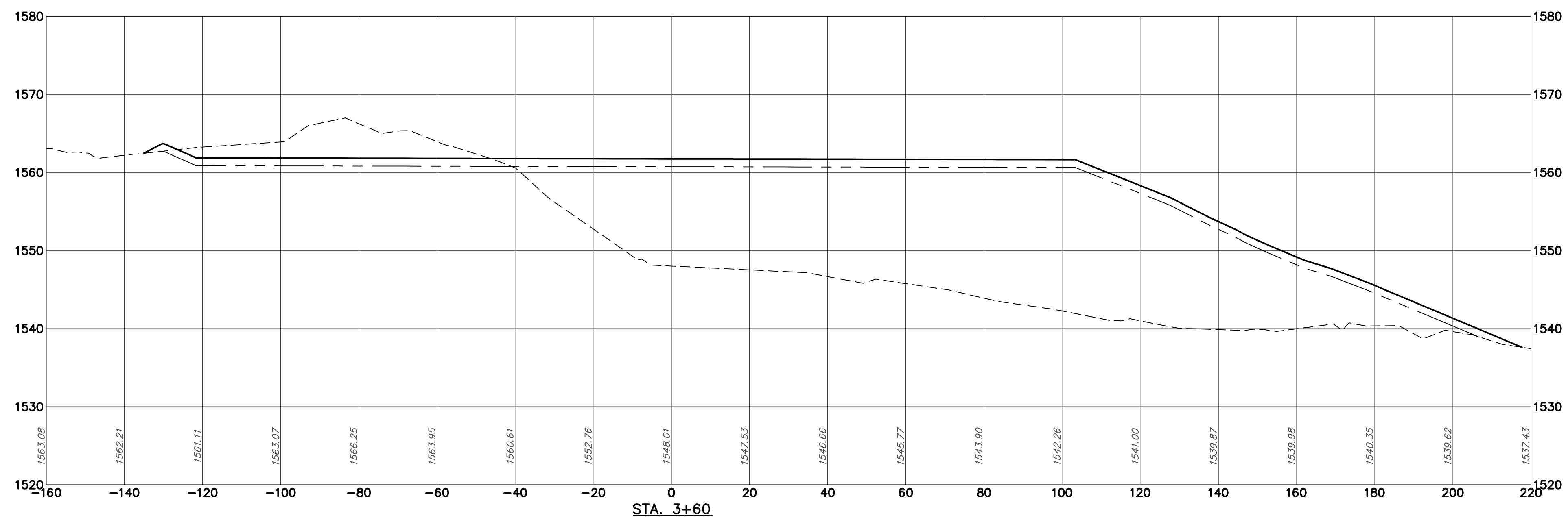
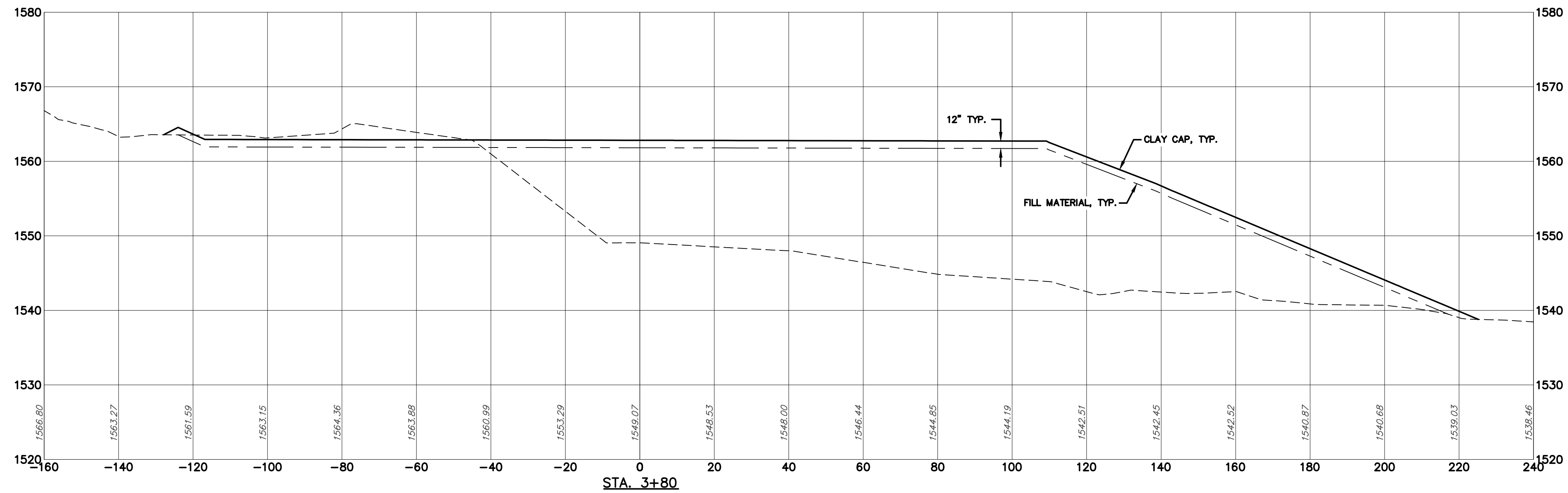
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 551050200\_DESIGN  
 FILE NUMBER  
 5510.5.02.00  
 SHEET  
 32 OF 39



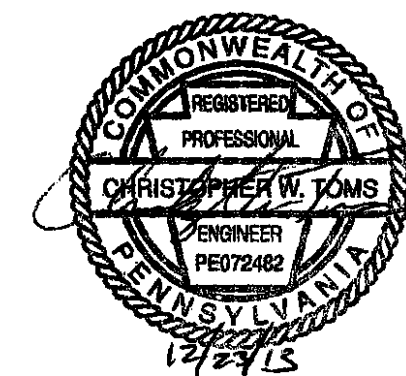
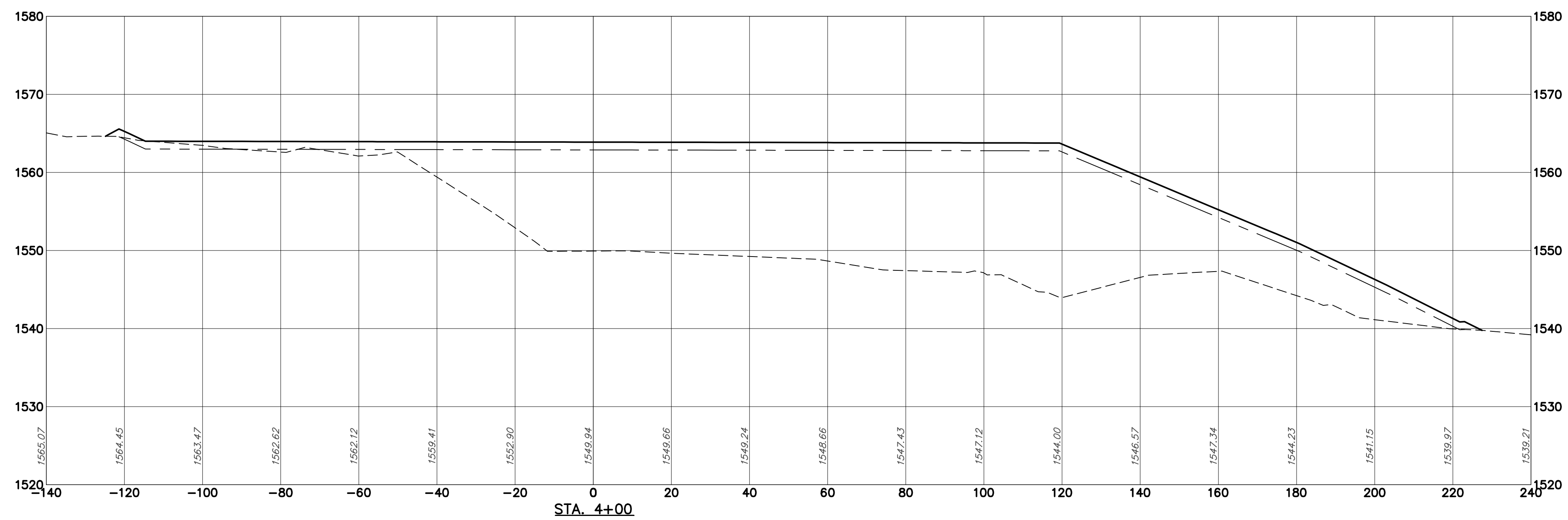
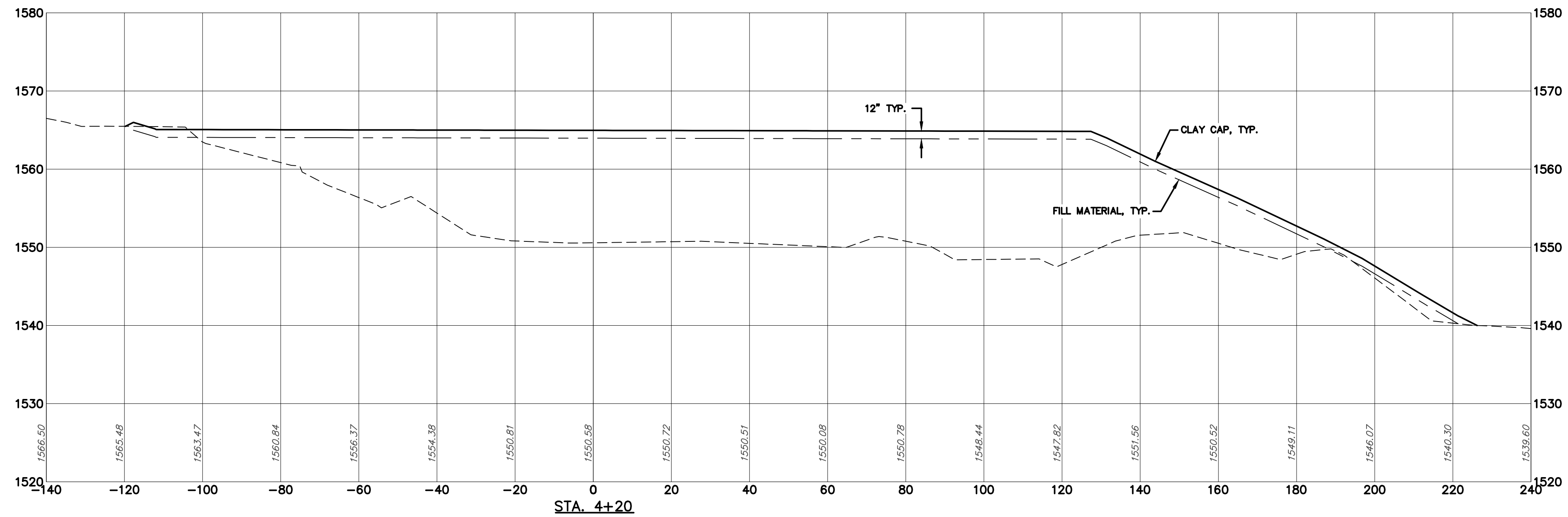


DESIGNED:	TITLE OF SHEET	DRAWING NO.
DRAWN BY:	FILL SITE	551050200_DESIGN
MPA	CROSS SECTIONS	FILE NUMBER
SCALE: 1"=20' H 1"=10' V	BEAR RUN PHASE IX	55105.02.00
DATE: 12/20/2013		SHEET
		33 OF 39

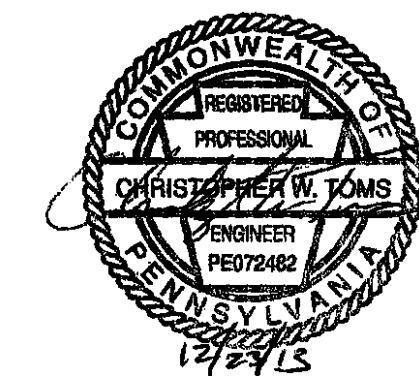
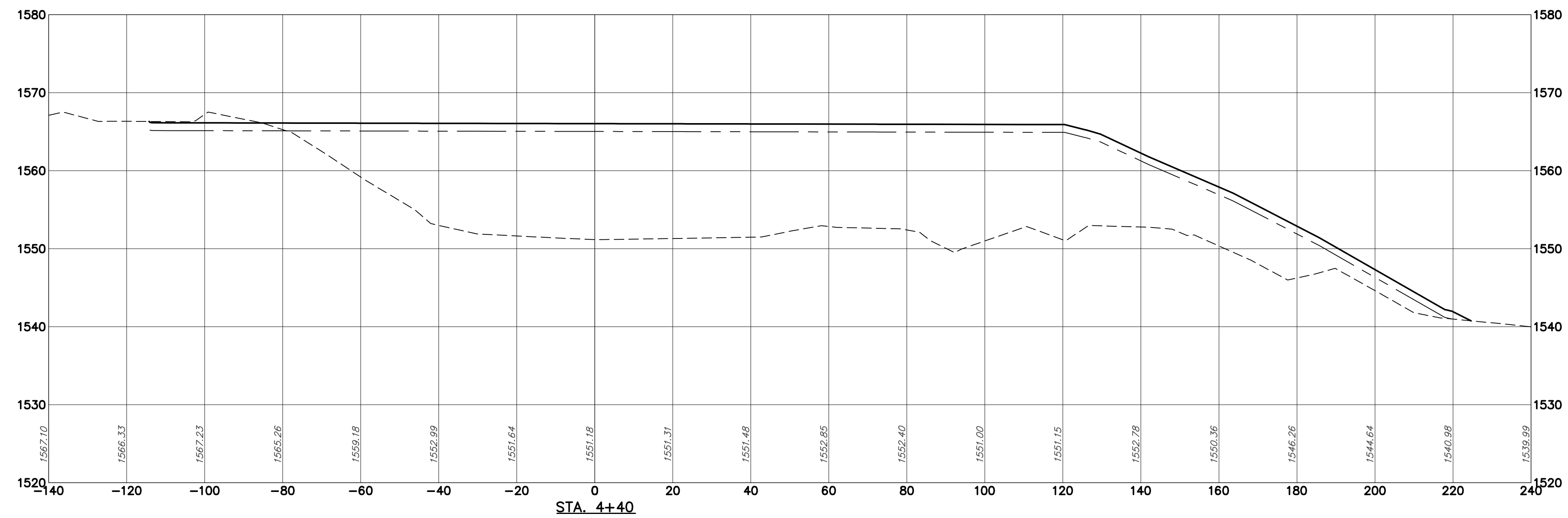
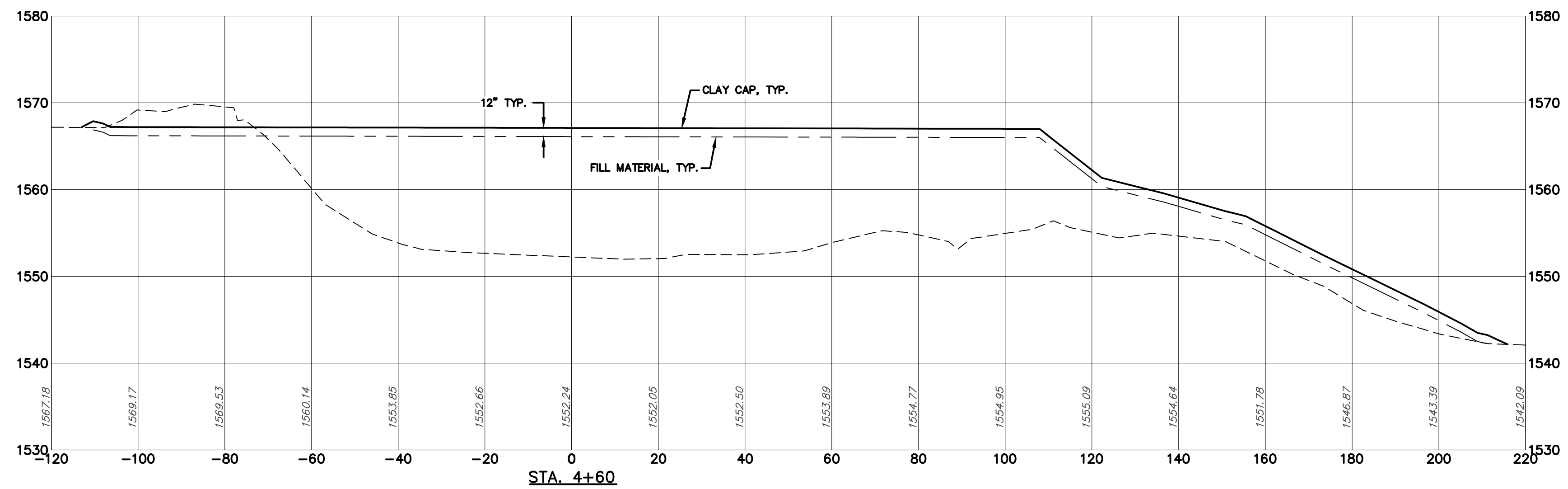
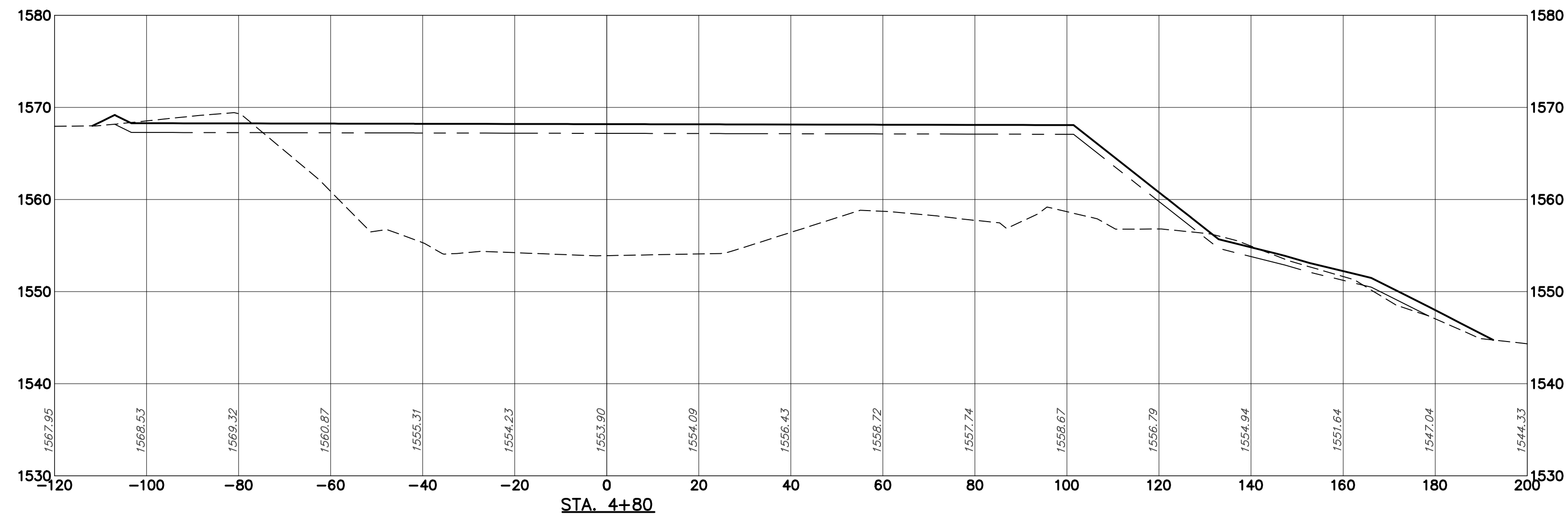
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DESIGNED:	TITLE OF SHEET	DRAWING NO.
DRAWN BY:	FILL SITE	551050200_DESIGN
MPA	CROSS SECTIONS	FILE NUMBER
SCALE: 1"=20' H		5510.5.02.00
1"=10' V		SHEET
DATE: 12/20/2013	BEAR RUN PHASE IX	34 OF 39

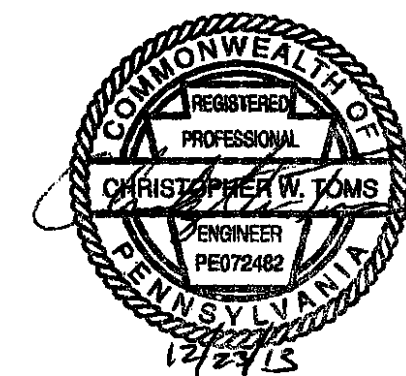
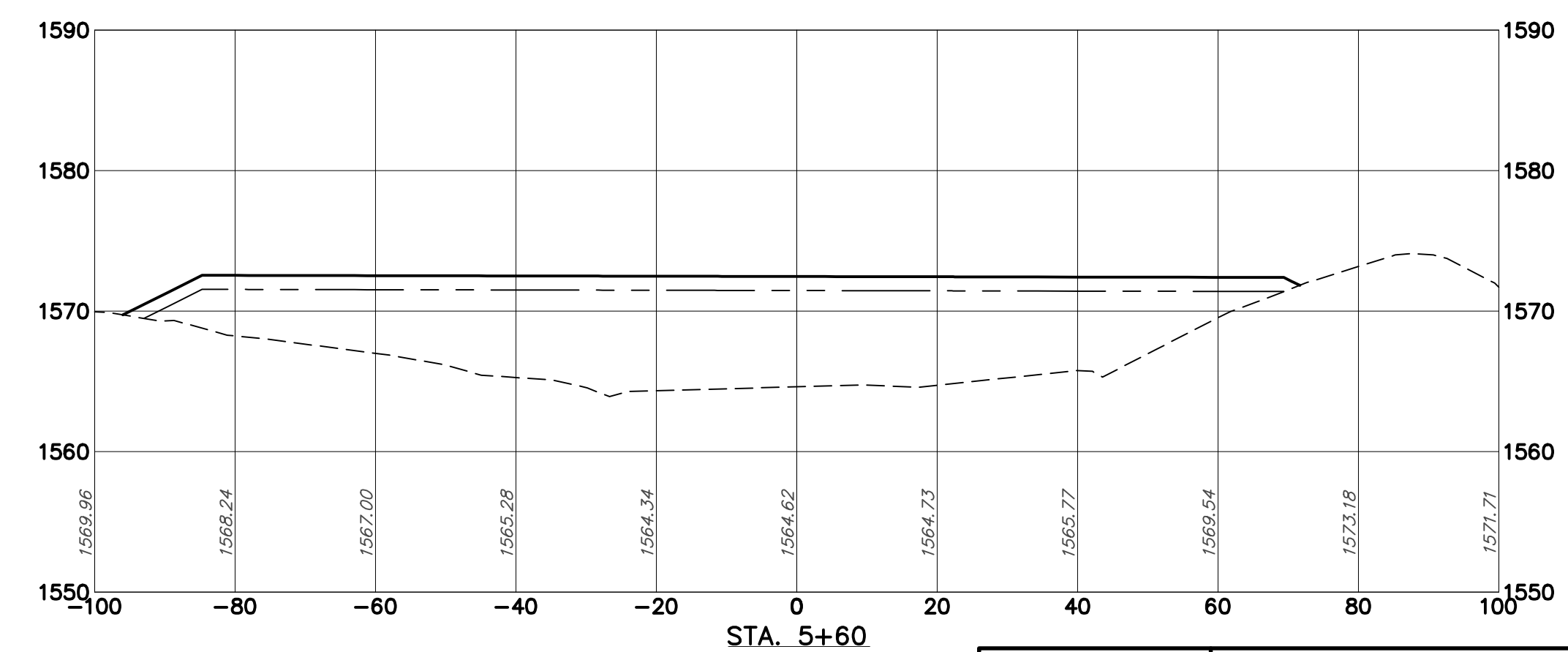
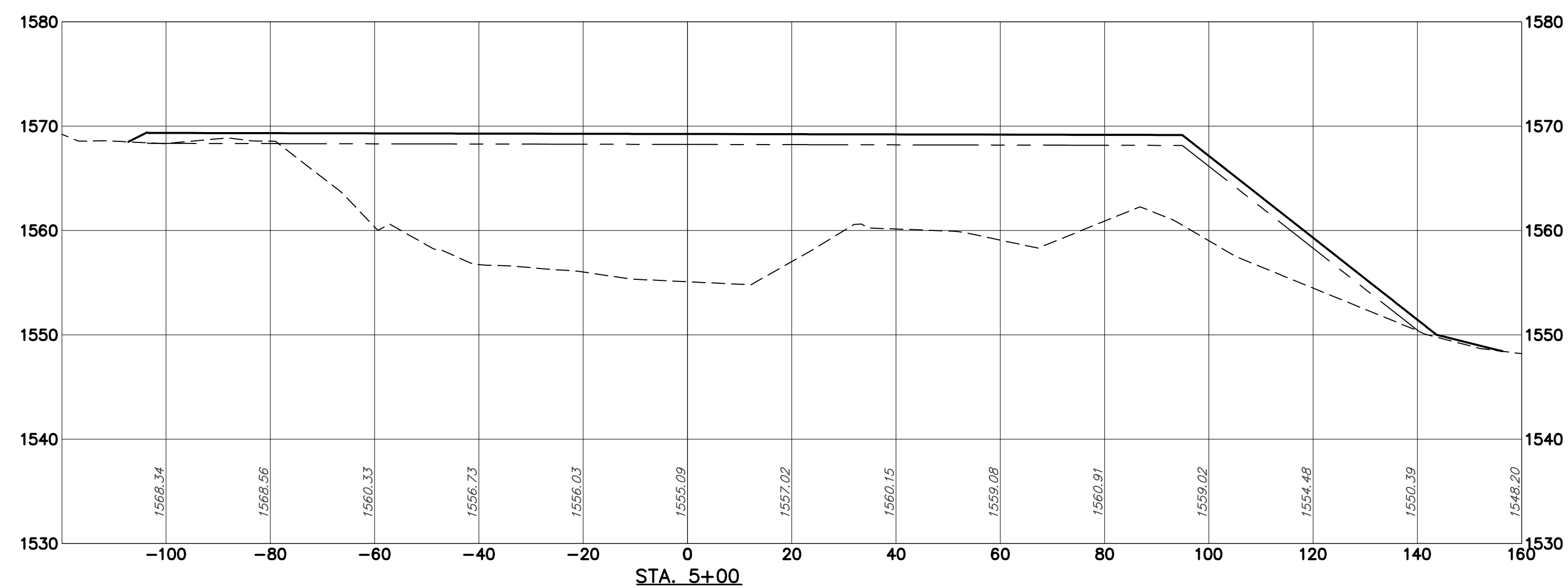
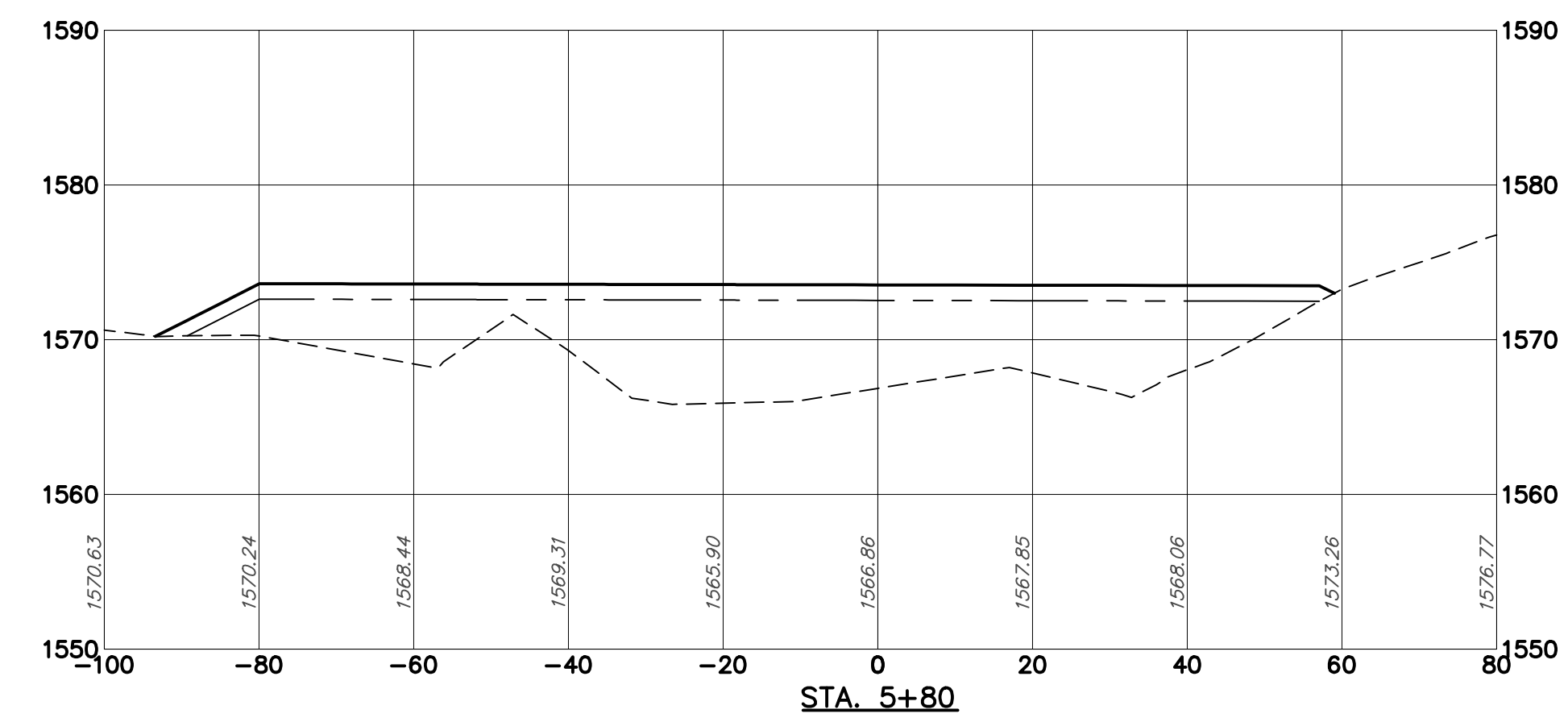
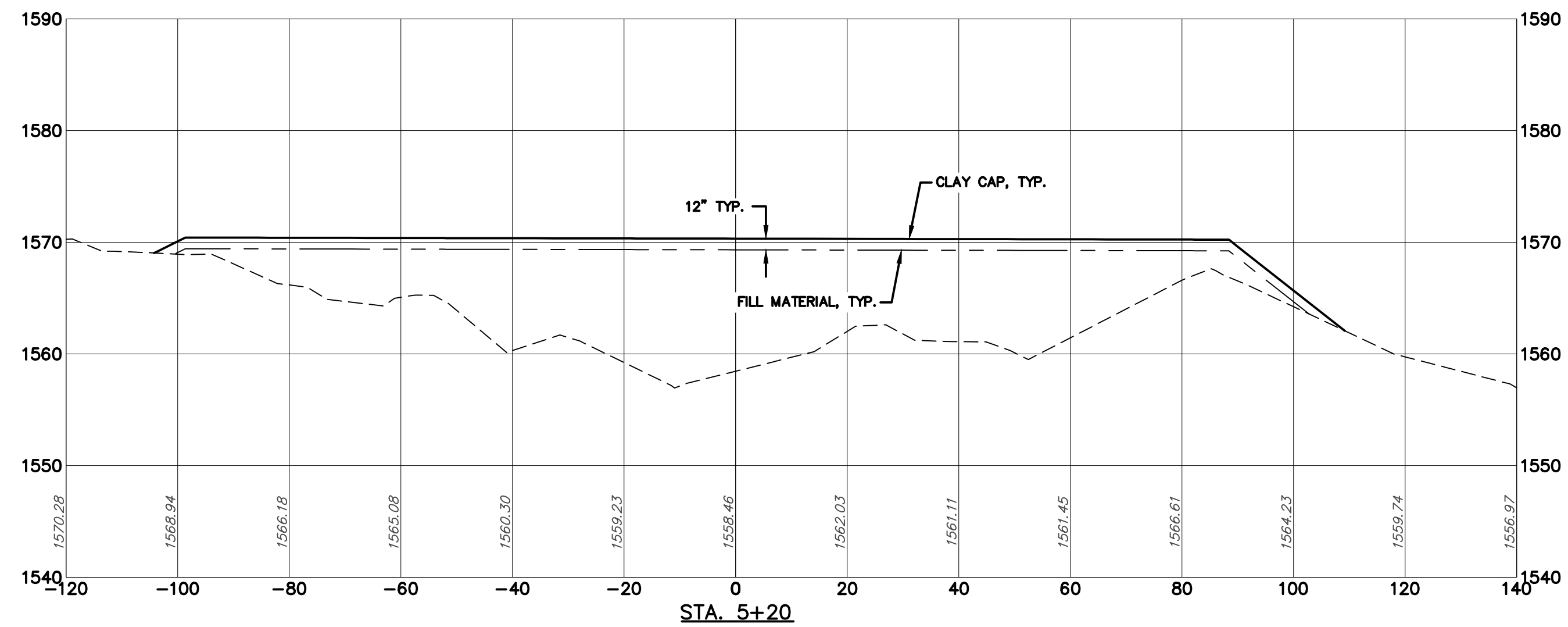
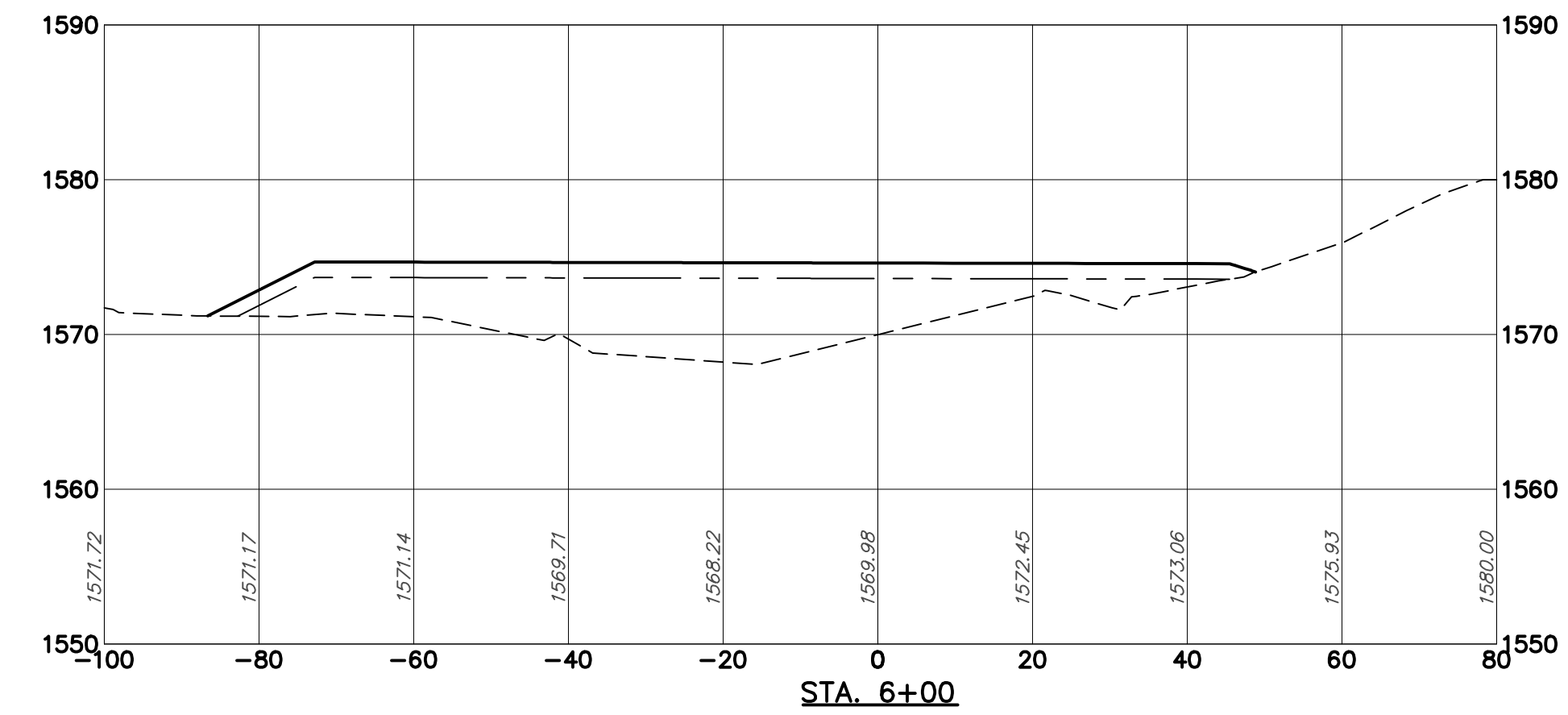
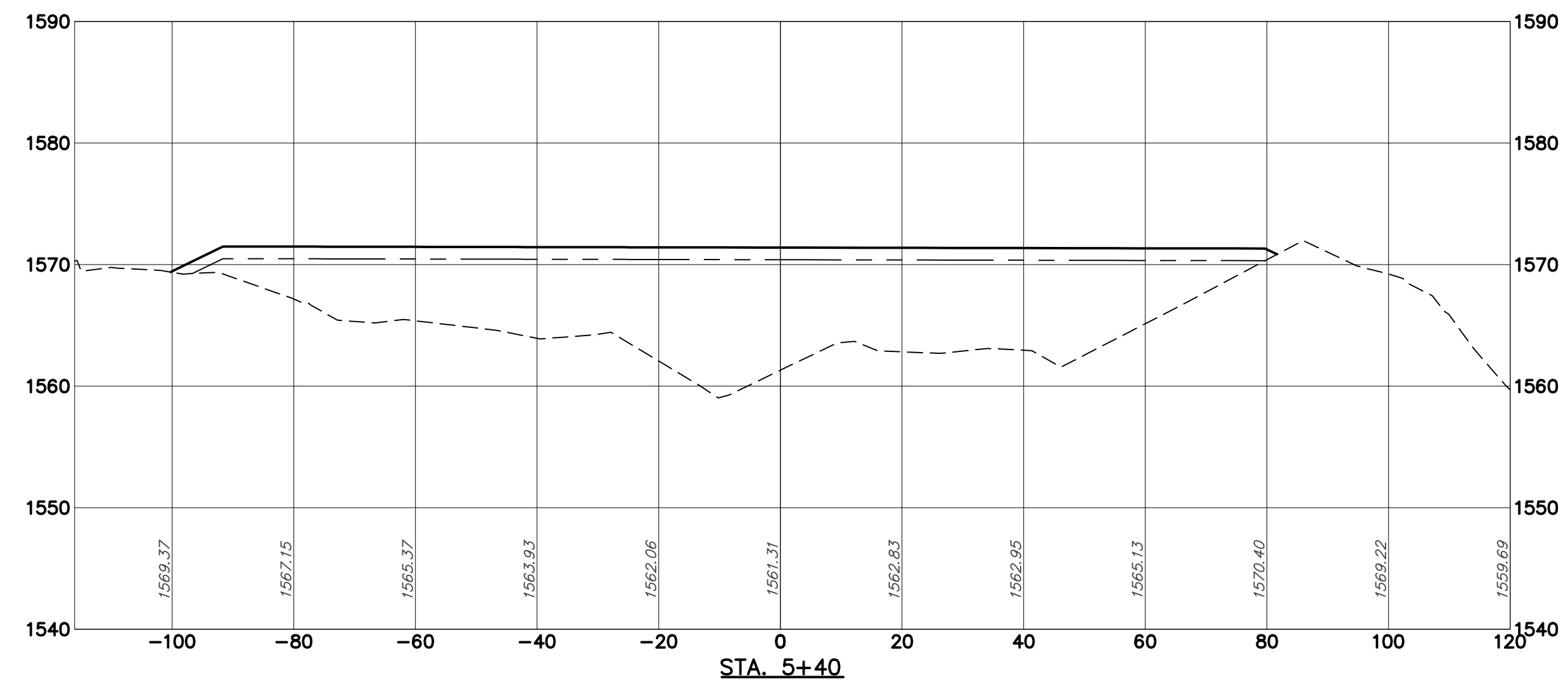


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1"=10' V		35 OF 39
DATE:	BEAR RUN PHASE IX	
12/20/2013		



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DATE: 12/20/2013		SHEET 36 OF 39

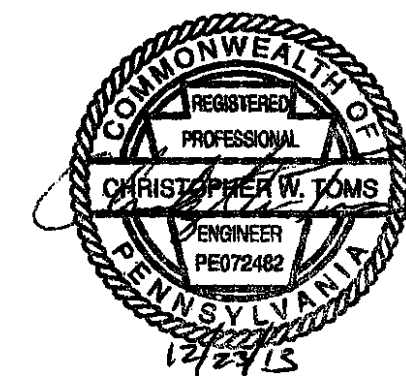
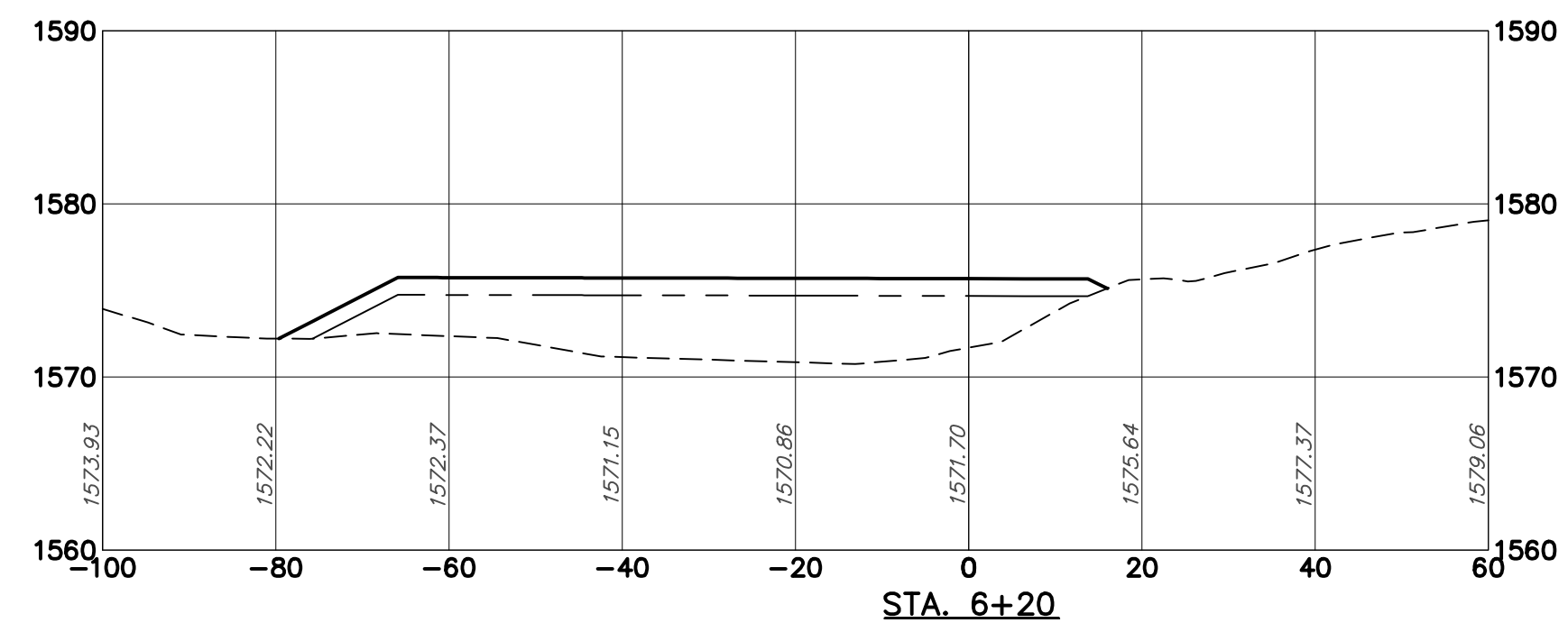
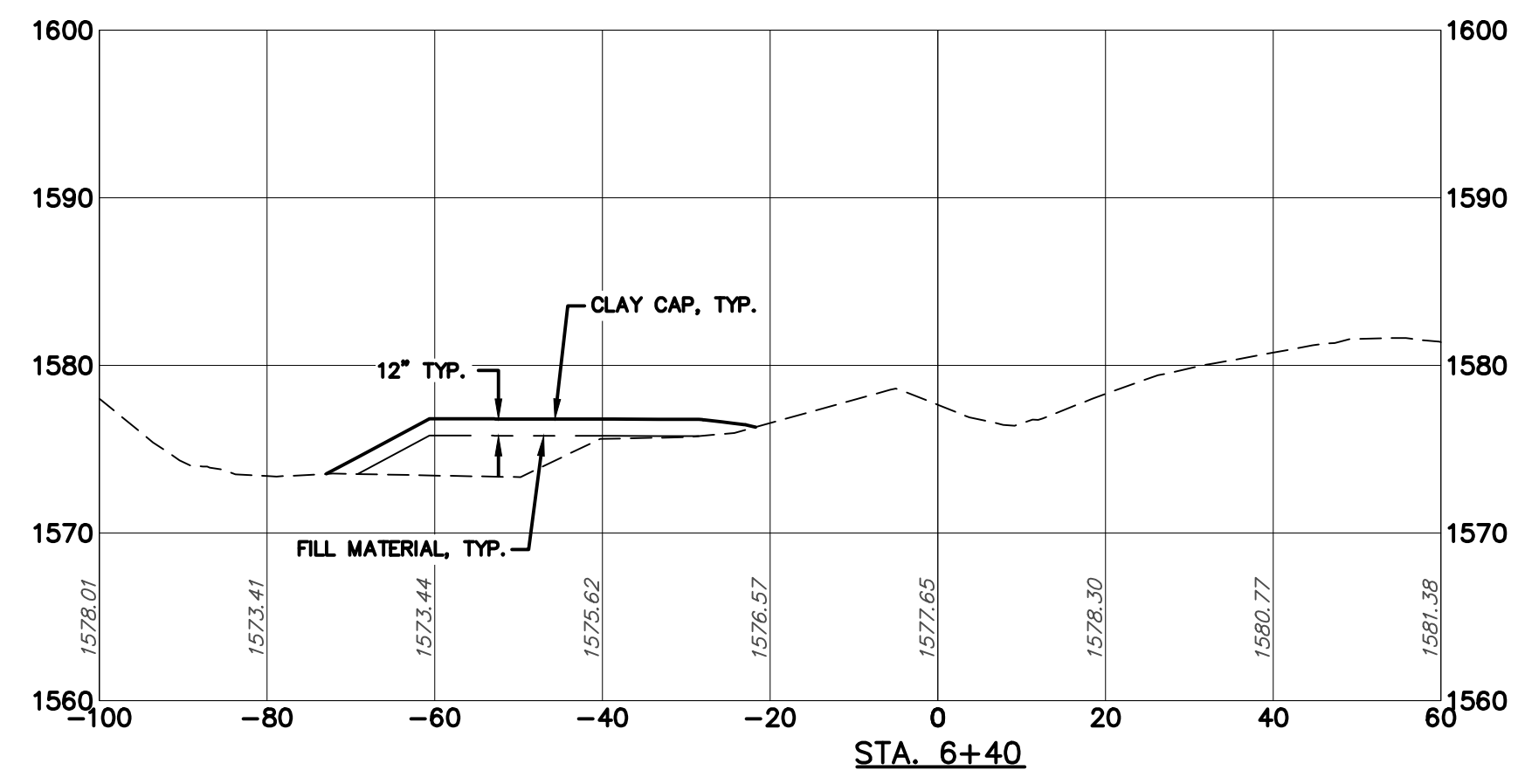
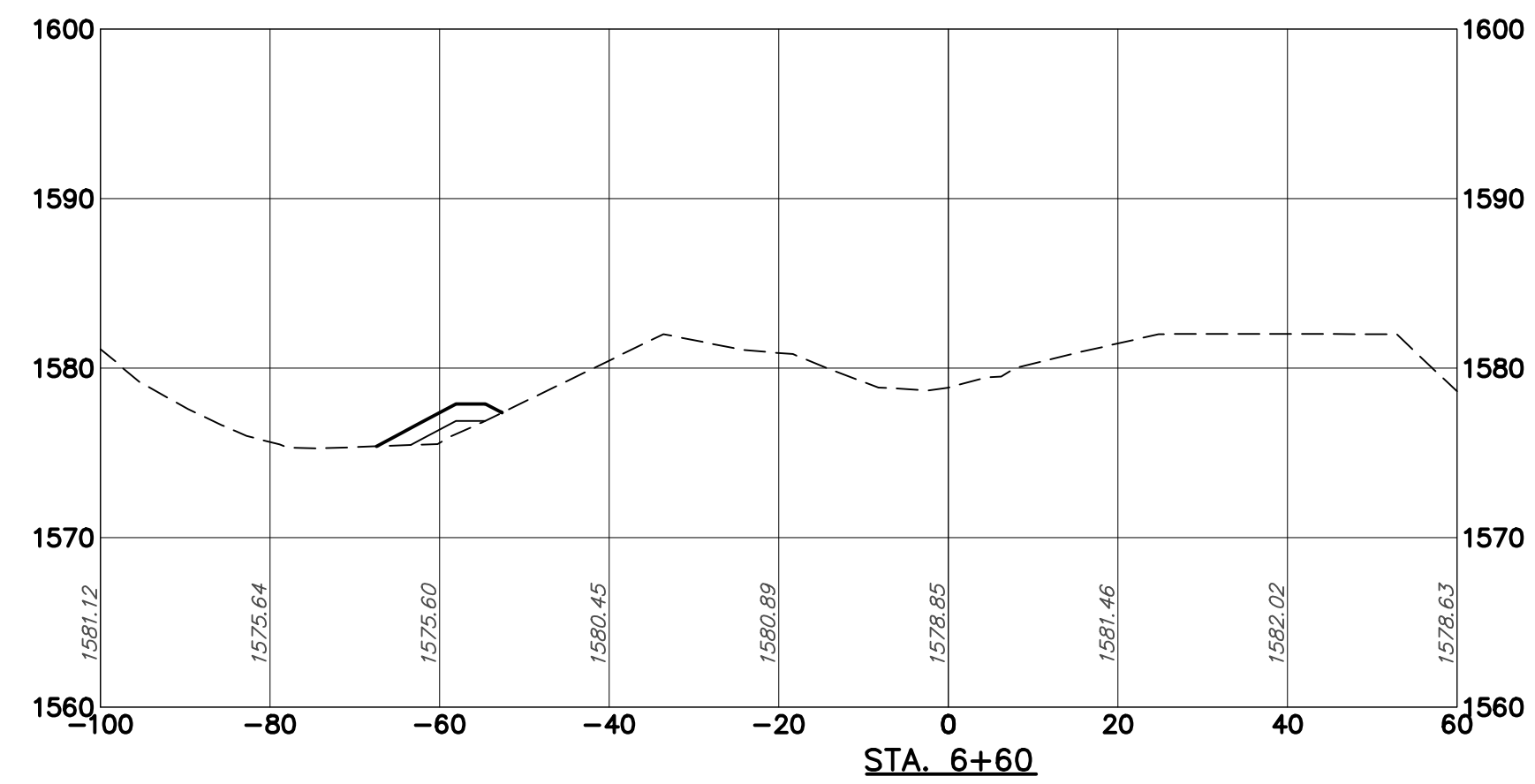
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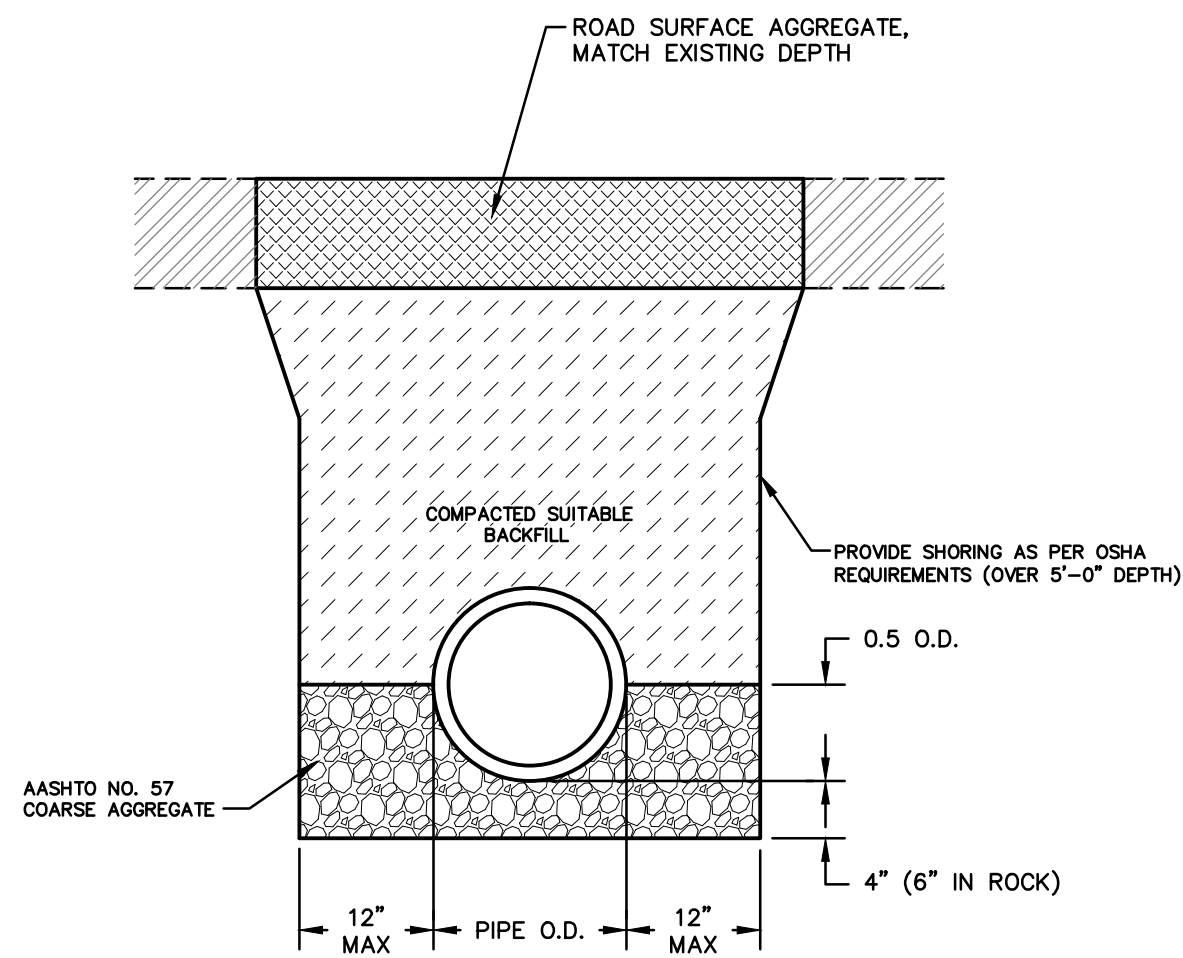
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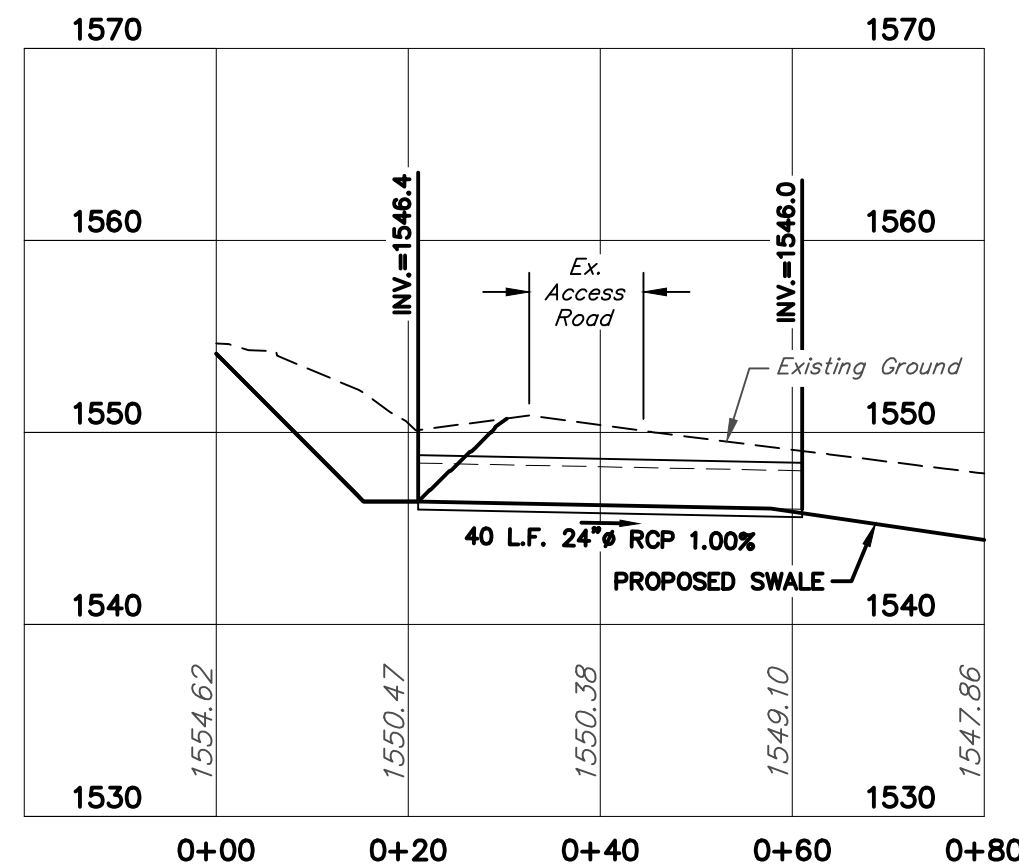
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 37 OF 39



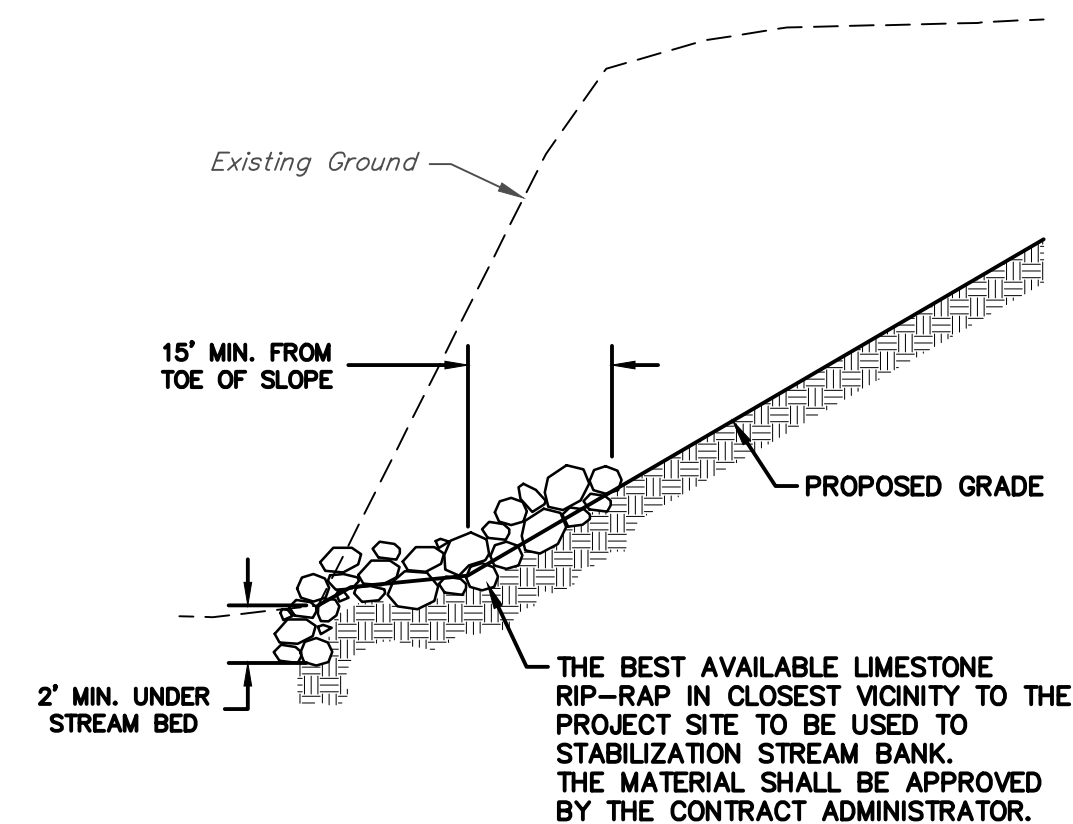
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DATE: 12/20/2013	BEAR RUN PHASE IX	SHEET 38 OF 39



TRENCH RESTORATION DETAIL  
N.T.S.



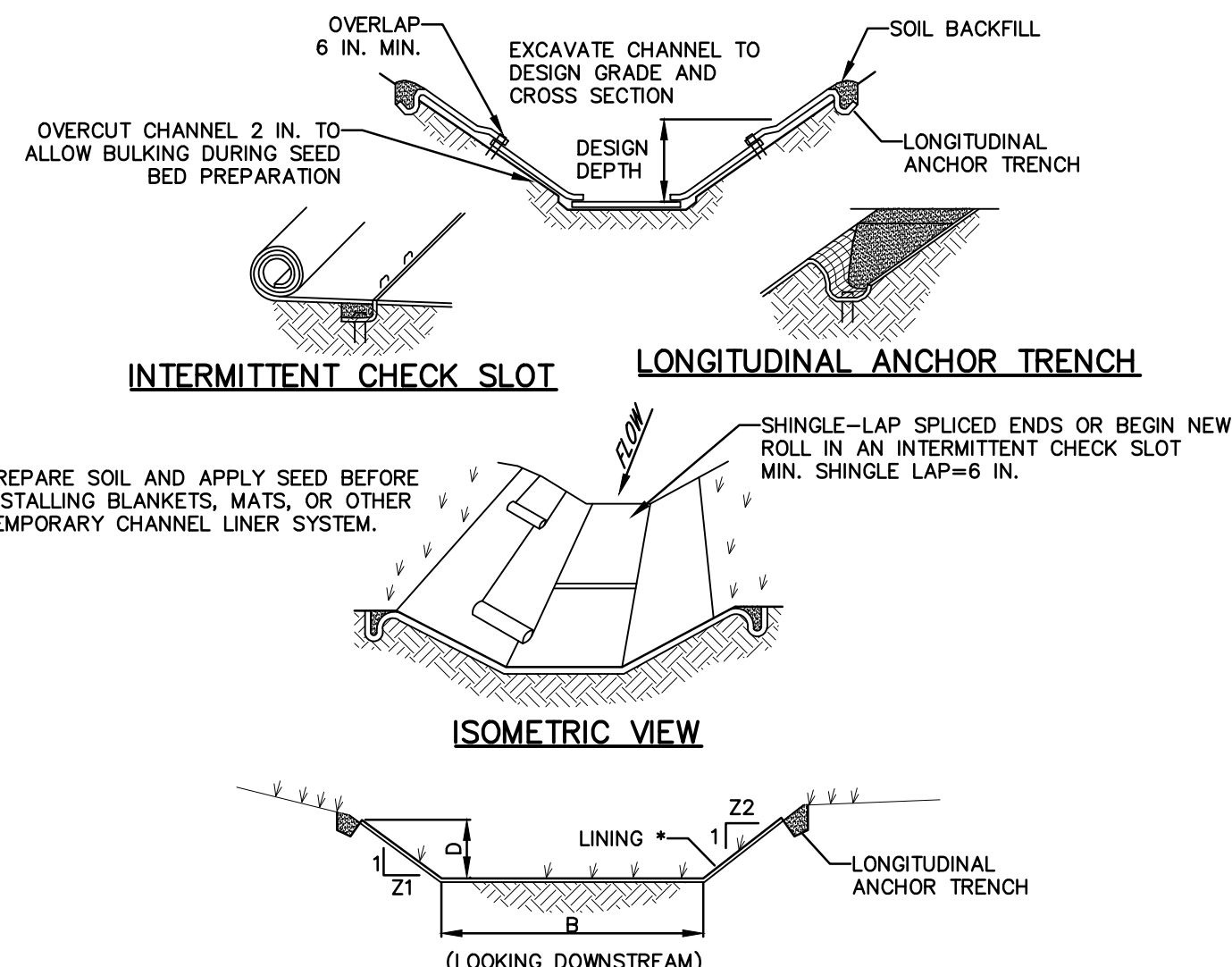
PROPOSED CULVERT - PROFILE  
H: 1" = 20'  
V: 1" = 10'



SITE 2 RIP-RAP LINING DETAIL  
N.T.S.

**CLAY CAP NOTES:**

- ONCE THE MATERIAL IS GRADED PER PLAN, IT SHALL BE LINED WITH A MINIMUM OF 12" OF CLAY.
- ON-SITE CLAY SOILS SHALL BE USED FOR THE CAP. PLACE SOIL IN MAXIMUM 8" LOOSE LIFTS AND COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR MOISTURE DENSITY RELATIONSHIP (ASTM D-1557). MAINTAIN THE MOISTURE CONTENT WITHIN ±2% OF THE OPTIMUM MOISTURE CONTENT. THE CONTRACTOR SHALL INSURE THAT THE MOISTURE CONTENT OF ALL SOILS USED IN THE CONSTRUCTION OF THE CAP SHOULD BE TESTED AND MONITORED AT THE START OF AND DURING CONSTRUCTION AS REQUIRED TO BE WITHIN ±2% OF OPTIMUM MOISTURE CONTENT BASED ON MODIFIED PROCTOR TEST. THE MAXIMUM DRY DENSITY SHALL BE FIELD VERIFIED BY A QUALIFIED PROFESSIONAL ENGINEER AT THE BEGINNING OF CONSTRUCTION. DEPENDING ON MOISTURE CONTENT OF THE SOIL AT THE TIME OF CONSTRUCTION, SOILS MAY REQUIRE WETTING OR DRYING DURING PLACEMENT AND COMPACTION. IF DRYING IS REQUIRED, EXCAVATED SOILS SHALL BE PLACED IN WINDROWS AND ALLOWED TO AIR DRY PRIOR TO USE AS FILL. CAUTION SHALL BE EXERCISED TO ENSURE THAT SOILS ARE NOT OVER DRIED.

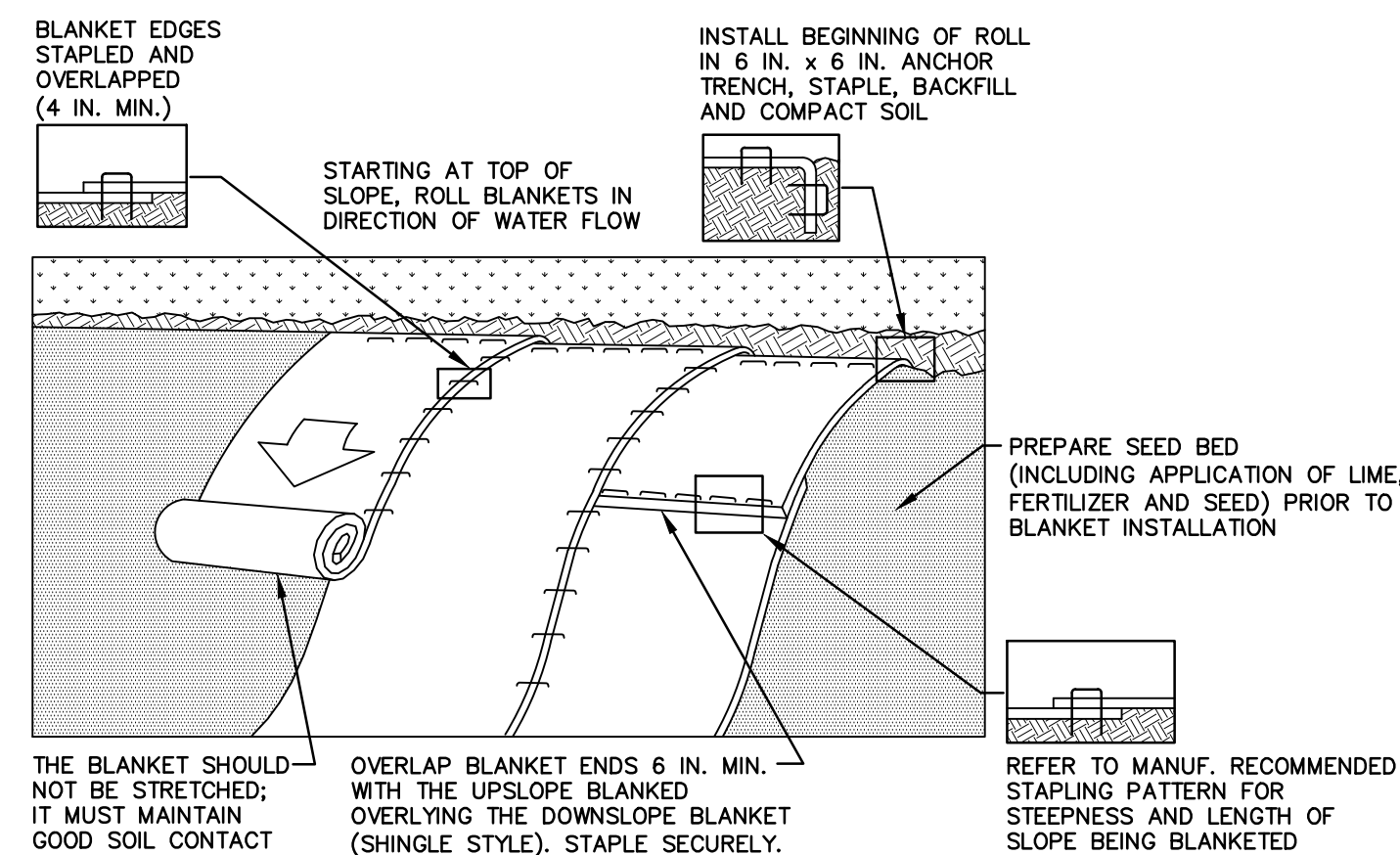


\* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH V (FT)	Z1 (FT)	Z2 (FT)	LINING #
88	888+88 - 888+88	88	88	88	88	88	12345678901234567890

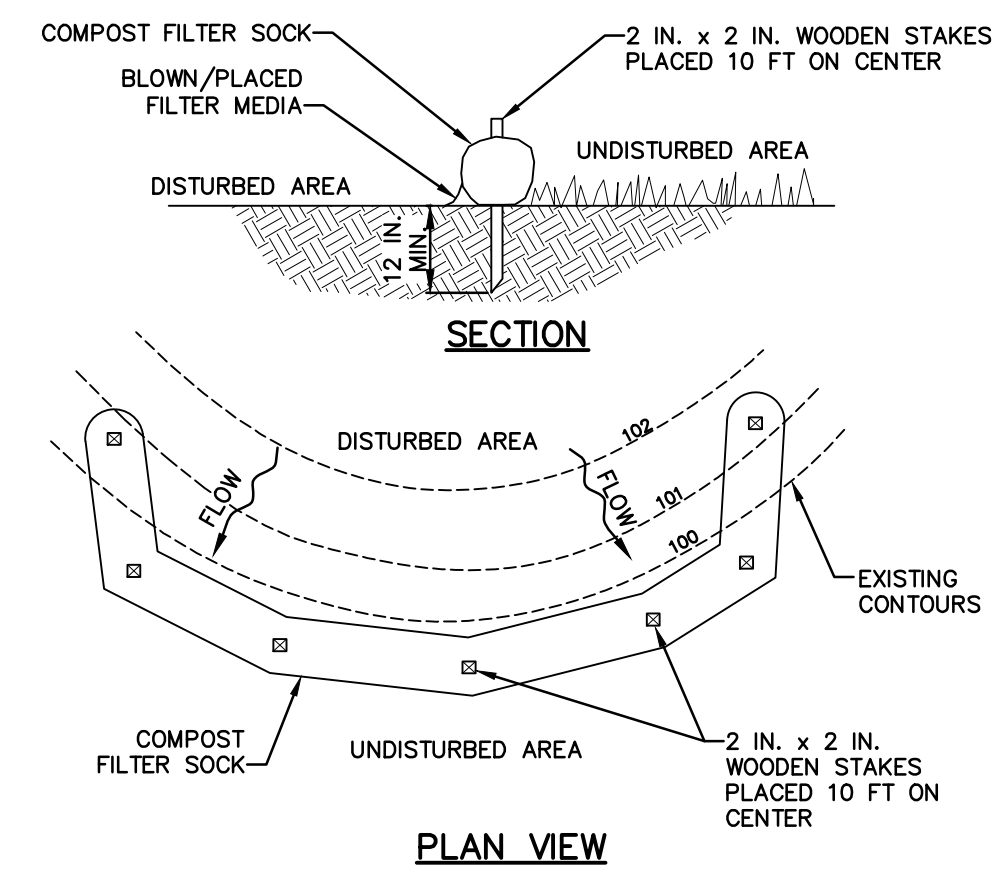
- NOTES:**
- ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
  - CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
  - NO MORE THAN ONE THIRD OF THE SHOOTS (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. EXCESS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.
  - ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES & WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY BRUSHY OR WOODY GROWTH. ANY UNDERGROUND UTILITIES RUNNING ACROSS/ THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL.
  - VEGETATED CHANNELS SHALL BE CONSTRUCTED FREE OF ROCKS, TREE ROOTS, STUMPS OR OTHER PROJECTIONS THAT WILL IMPEDE NORMAL CHANNEL FLOW AND/OR PREVENT GOOD LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIAL OVER-EXCAVATED TO ALLOW FOR THE PLACEMENT OF TOPSOIL.

STANDARD CONSTRUCTION DETAIL #6-1  
VEGETATED CHANNEL  
N.T.S.



- NOTES:**
- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
- BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1  
EROSION CONTROL BLANKET INSTALLATION  
N.T.S.



- NOTES:**
- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1  
COMPOST FILTER SOCK  
N.T.S.

TABLE 4.1  
Compost Sock Fabric Minimum Specifications

Material Type	Compost Sock Fabric Minimum Specifications				
	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MPPP)	Heavy Duty Multi-Filament Polypropylene (HDMPPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12"	12"	12"	12"	12"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years

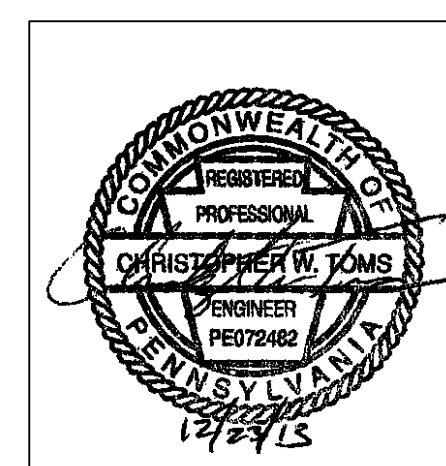
Two-ply systems

Inner Containment Netting	Outer Filtration Mesh
HDPE biaxial net	
Continuously wound	
Fusion-welded junctures	
3/4" x 3/4" Max. aperture size	
Composite Polypropylene Fabric	
(Woven layer and non-woven fleece mechanically fused via needle punch)	
3/16" Max. aperture size	

Sock fabrics composed of burlap may be used on projects lasting 6 months or less.

TABLE 4.2  
Compost Standards

Organic Matter Content	80% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.0
Moisture Content	35% - 55%
Particle Size	98% pass through 1" screen
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum



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MPA  
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1" = 20'  
DATE:  
12/20/2013

TITLE OF SHEET  
  
CONSTRUCTION DETAILS  
  
BEAR RUN PHASE IX

DRAWING NO.  
551050200\_E  
  
FILE NUMBER  
5510.5.02.00  
  
SHEET  
39 OF 39