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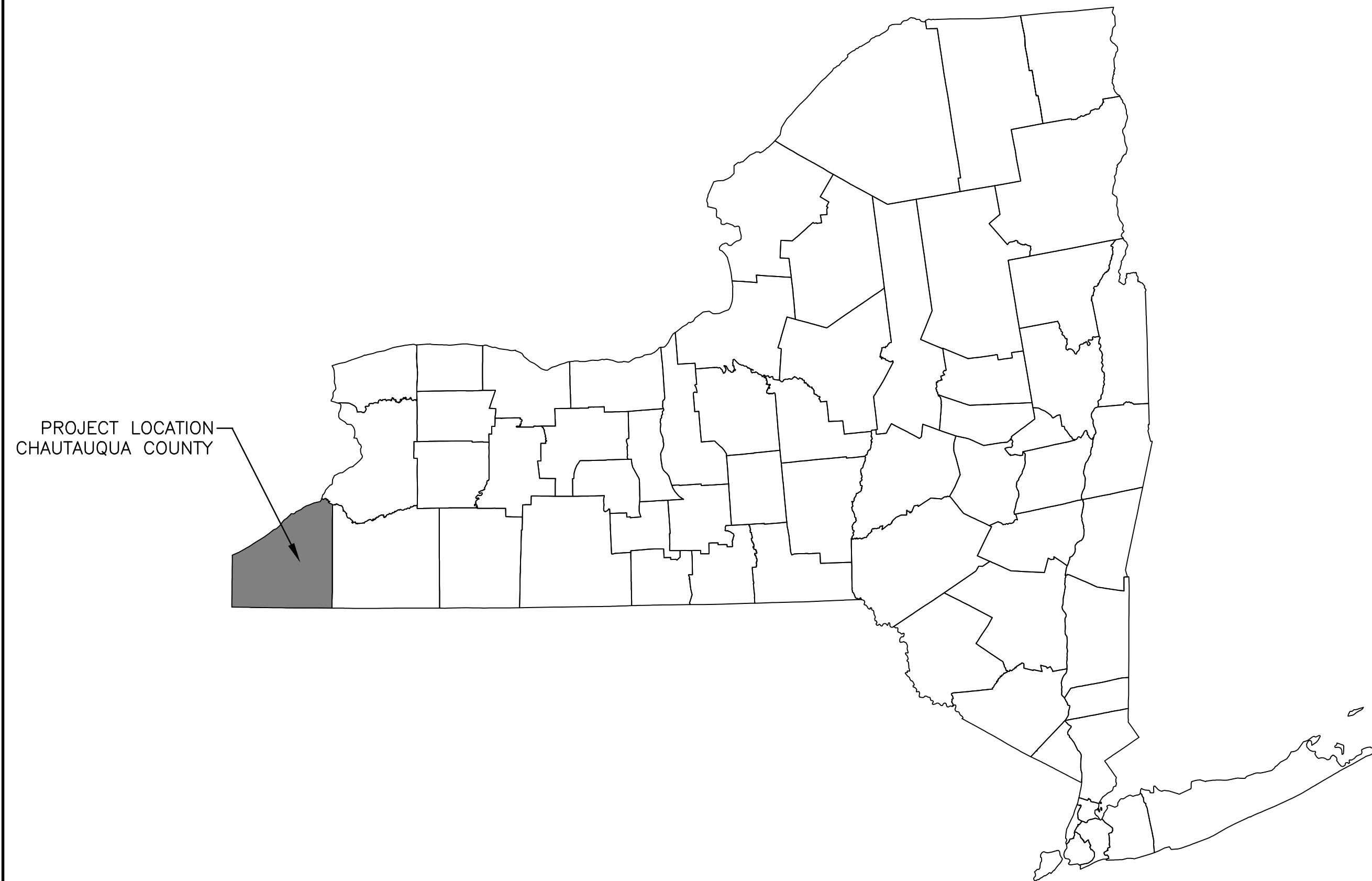
Project Drawings

C-1 Project Drawings – Generation Portion

BALL HILL WIND PROJECT

PRELIMINARY PLANS

TOWNS OF HANOVER AND VILLENOVA CHAUTAUQUA COUNTY



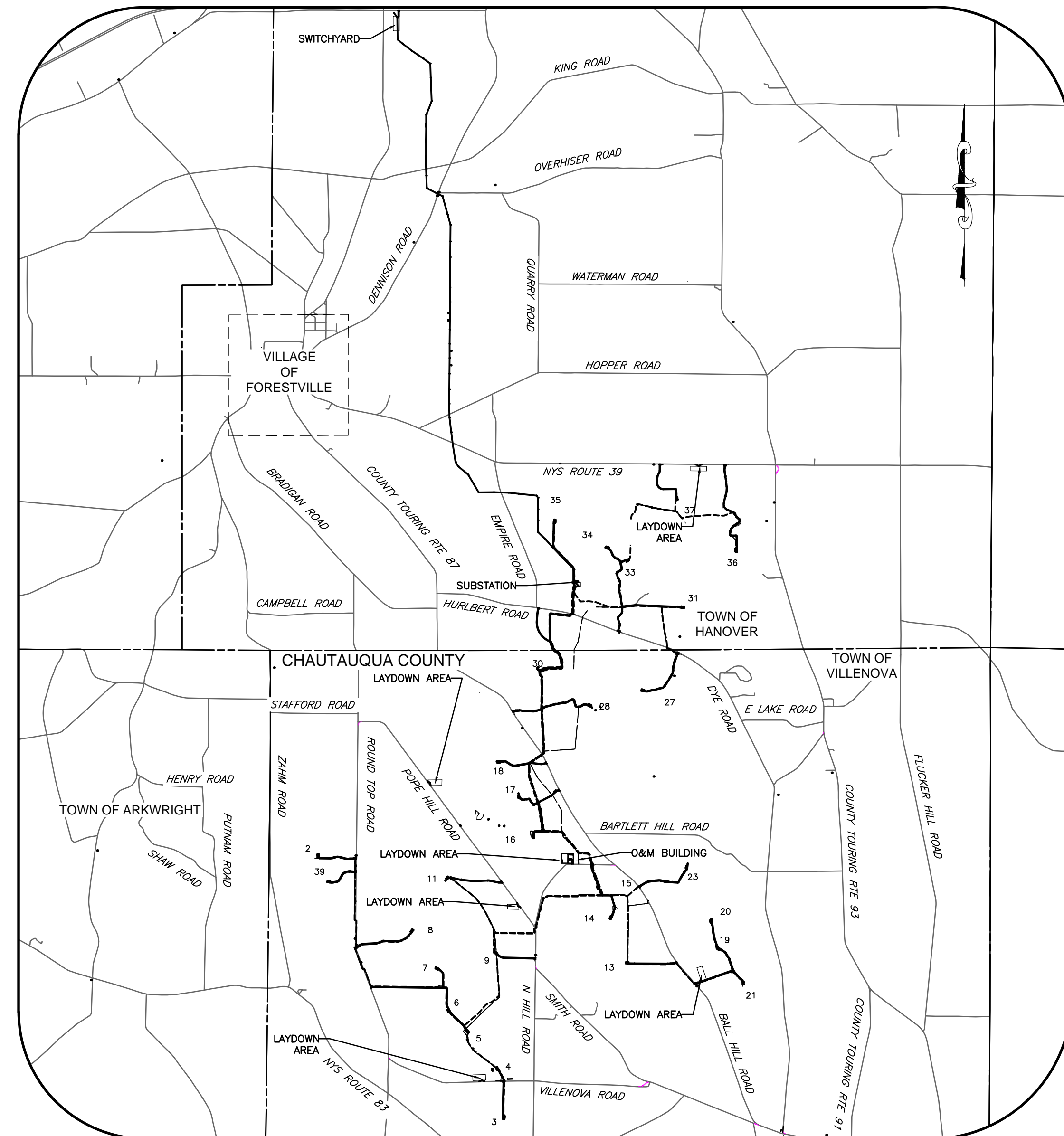
NEW YORK STATE MAP
N.T.S.

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LOCATION MAP
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DESIGNER CONTACT STATEMENT

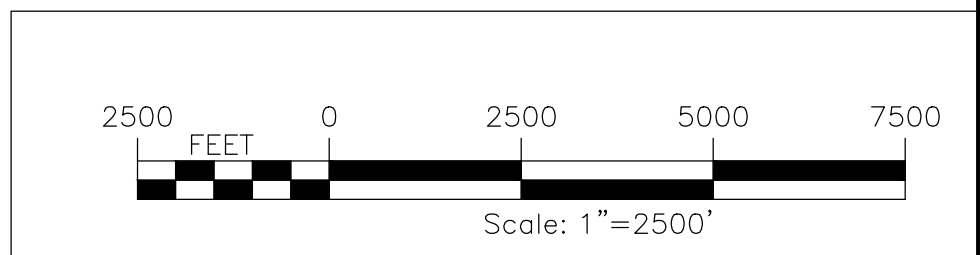
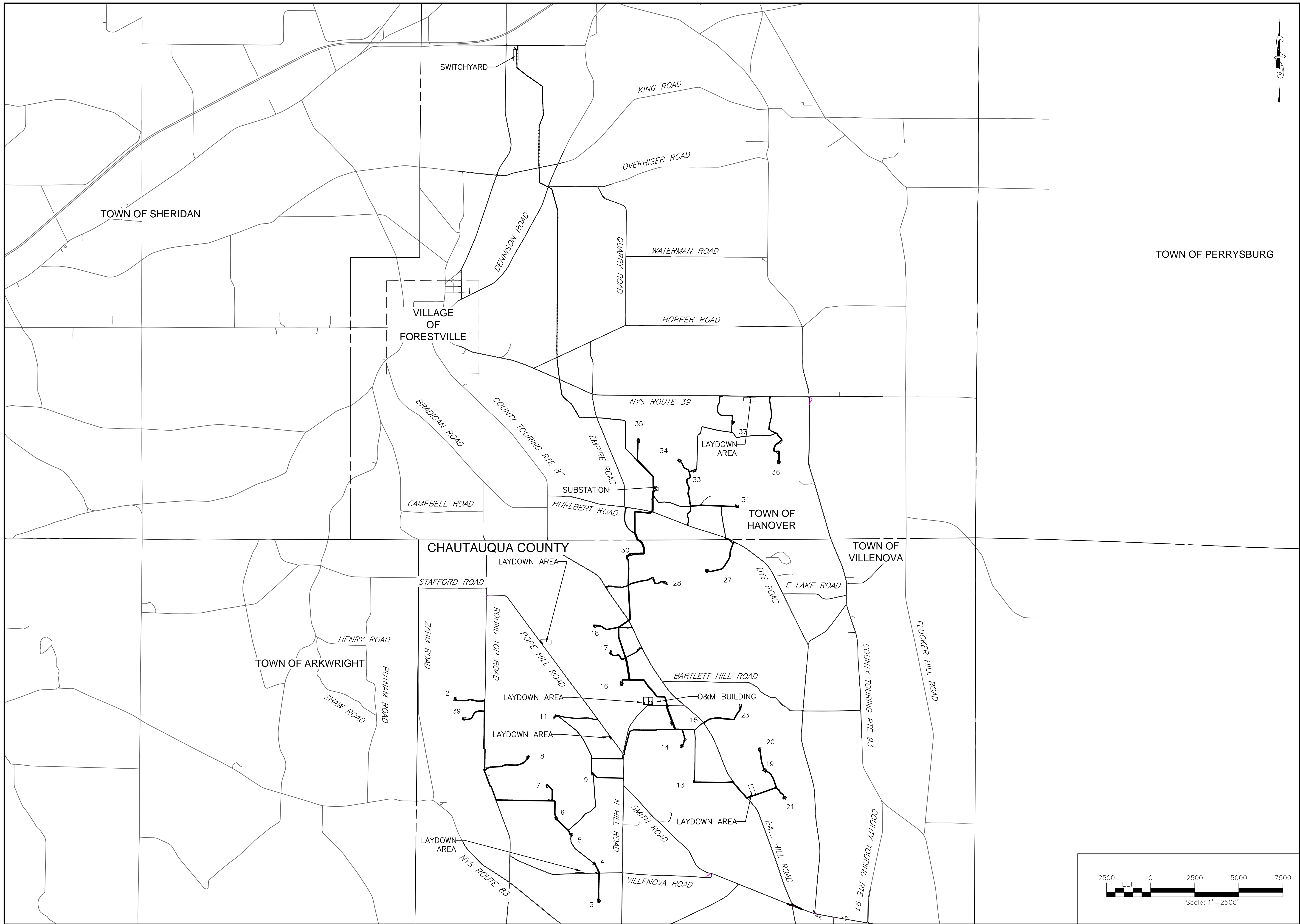
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING TURBINE GENERAL PLAN		DRAWING NO. GP-1	
PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		ISSUE DATE OCT. 2016	
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ROAD DESIGN PARAMETERS

- THE ROAD SECTION HAS BEEN DESIGNED TO ACCOMMODATE WIND TURBINE COMPONENT DELIVERY DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY AND MAY INCLUDE BLADING AND REPLACEMENT OF AGGREGATE MATERIAL.
- CONTRACTOR SHALL CONFIRM ROAD SECTIONS REQUIRED FOR TURBINE COMPONENT DELIVERY WITH THE GEOTECHNICAL REPORT.
- CONTRACTOR SHALL CONFIRM ROAD DESIGN MEETS THE REQUIREMENTS OF THE TURBINE MANUFACTURER ACCESS ROAD MANUAL.

PRODUCTS

- TURBINE ACCESS ROAD BASE AND POST CONSTRUCTION CAP SHALL CONSIST OF NYS DOT 733-04 TYPE 2 COARSE AGGREGATE MEETING THE GRADATION PROVIDED IN TABLE 1.
- LAYDOWN YARD AGGREGATE BASE SHALL CONSIST OF NYS DOT 733-04 TYPE 2 COARSE AGGREGATE MEETING THE GRADATION PROVIDED IN TABLE 1.
- ROAD SUBGRADE, SHOULDERS, AND CRANE PADS SHALL CONSIST OF COMPACTED NATIVE SOILS.
- IF REQUIRED, GEOTEXTILE FABRIC FOR AGGREGATE BASE MATERIAL SEPARATION SHALL BE MIRAFI HP-570 OR APPROVED EQUAL AND/OR TENSAR BX1200 GEOGRID OR APPROVED EQUAL.
- CULVERTS: SEE PLAN FOR CULVERT LOCATIONS. CULVERTS SHALL BE A MINIMUM 16 GA. CORRUGATED METAL PIPE AND MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION AND/OR CHAUTAUQUA COUNTY.

EXECUTION

- CLEARING AND GRUBBING
 - THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- TOPSOIL STRIPPING
 - TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS.
 - ANY TOPSOIL THAT HAS BEEN STRIPPED, SHALL BE RE-Spread OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS DIRECTED BY THE ENGINEER. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM.
- EMBANKMENT CONSTRUCTION
 - REFER TO NYS DOT STANDARD SPECIFICATION 733-08 FOR EMBANKMENT SPECIFICATION.
 - EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF ONE FOOT HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED FROM THE ACCESS ROAD EXCAVATION (SEE GEOTECHNICAL REPORT FOR RESTRICTIONS), OR ANY SUITABLE, APPROVED SOIL OBTAINED OFFSITE BY CONTRACTOR, AS DIRECTED OR APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8" FOR COHESIVE SOILS OR 12" FOR GRANULAR SOILS.
 - SIDE SLOPES GREATER THAN 4:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.
- STRUCTURAL SUBGRADE SHOULD BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.

STORMWATER DESIGN PARAMETERS

- ANTICIPATED DRAINAGE CROSSINGS ARE SHOWN ON THE CONSTRUCTION PLANS BASED LARGELY ON OBSERVATION OF DRAINAGE CHANNELS/DRAINAGE EROSION FROM THE AERIAL IMAGERY, SUPPLEMENTED BY GIS STREAM LINEWORK AND EXISTING CONTOUR DATA AVAILABLE. ADDITIONAL CROSSINGS (LOW WATER CROSSINGS/CULVERTS) MAY NEED TO BE INSTALLED IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED DUE TO CONSTRUCTION ACTIVITIES.
- CULVERT SHALL BE SIZED TO A MINIMUM 25-YEAR RECURRENCE PERIOD, 24 HOUR EVENT, CULVERTS SHALL BE MINIMUM 12" CORRUGATED METAL PIPE. ACTUAL SIZE WILL BE DETERMINED BY HYDRAULIC ANALYSIS. ALL TEMPORARY PORTIONS OF THE INSTALLED CULVERTS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- IT IS EXPECTED THAT CULVERTS WILL BE OVERTOPPED DURING SOME STORMS AND MAINTENANCE WILL BE REQUIRED THROUGH THE LIFE OF THE PROJECT.
- THE LOW WATER CROSSING DESIGNED TO BE OVERTOPPED SHOULD HAVE AN ADEQUATE CAPACITY TO PASS THE 25-YEAR STORM FLOW PLUS THE DEBRIS AND SEDIMENT CARRIED DURING THE STORM.
- WHEN INSTALLING DRAINAGE CULVERTS THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS AND CULVERT LONGITUDINAL SLOPE. TYPICALLY THE FLOW LINE ELEVATIONS AND LONGITUDINAL SLOPE OF THE CULVERT SHOULD MATCH THE NATURAL GROUND ELEVATIONS AND SLOPE TO ENSURE POSITIVE DRAINAGE. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE.
- ANTICIPATED CULVERT CROSSINGS ARE SHOWN ON THE CONSTRUCTION PLAN, ADDITIONAL CULVERTS MAY NEED TO BE INSTALLED IN AREAS WHERE CONCENTRATED FLOW IS EXPECTED DUE TO CONSTRUCTION ACTIVITIES.
- CONSTRUCTION DRAINAGE CROSSINGS TO MAINTAIN EXISTING FLOW CHARACTERISTICS OF THE FEATURES. FEATURES SHALL BE GRADED TO PRECONSTRUCTION CONTOURS.
- ALL CULVERTS SHALL BE A MINIMUM 16 GA. CORRUGATED METAL PIPE.

TABLE 1: NYS DOT 733-04 TYPE 2 AGGREGATE GRADATION

Sieve Size Designation	Percent Passing by Weight	
	Type 2	
4 in.	-	-
3 in.	-	-
2 in.	100	-
1 1/4 in.	25-60	-
No. 40	5-40	-
No. 200	0-10	-

TESTING

- TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
- SUBMIT ONE SET OF TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD.
- CONTRACTOR SHALL MAINTAIN A TESTING LOG TO ENSURE THAT TESTING IS PERFORMED AND RESULTS ARE ACCEPTABLE.

DEFINITIONS


- PROOF ROLLING: SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS AND IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK OR WATER TRUCK WITH A MAXIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED BELLY DUMP WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- SIEVE ANALYSIS: SHALL BE CONDUCTED IN ACCORDANCE WITH AASHTO T27
- PROCTORS: SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T99
- ATTERBERG LIMITS: SHALL BE DETERMINED IN ACCORDANCE WITH AASHTO T89 AND T90
- MOISTURE DENSITY (NUCLEAR DENSITY): SHALL BE DONE IN ACCORDANCE WITH AASHTO T310
- DYNAMIC CONE PENETROMETER (DCP) TESTING: SHALL BE DONE IN ACCORDANCE WITH ASTM D6951-03

REQUIREMENTS (NON-CEMENT STABILIZED ROADWAYS)

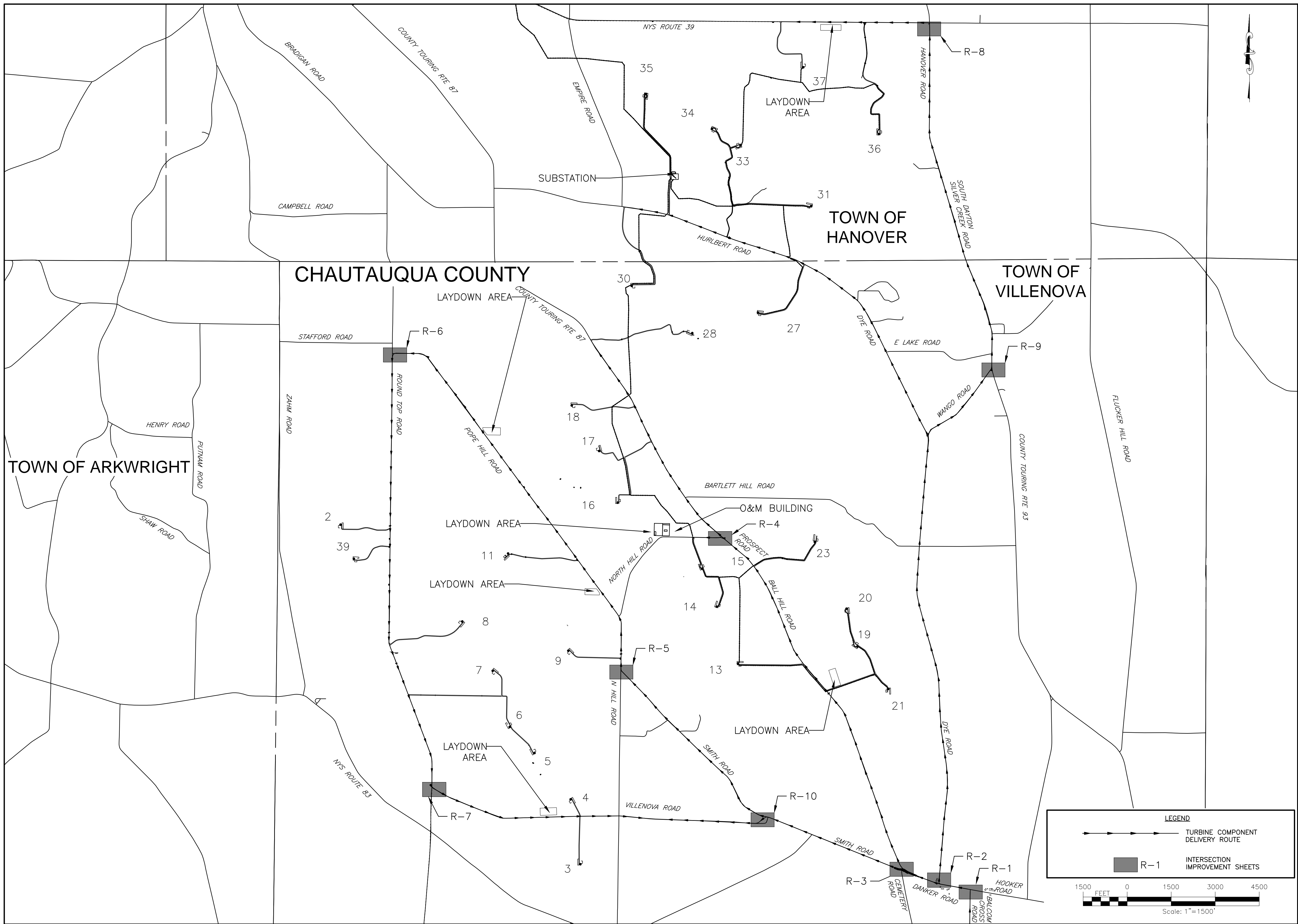
- FILL MATERIAL:
 - SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS AND IN ACCORDANCE WITH NYS DOT AND GEOTECHNICAL REPORT RECOMMENDATIONS.
 - IN ROADWAY CUT AREAS, OR WHERE EMBANKMENT CONSTRUCTION REQUIRES LESS THAN 12 INCHES OF FILL PLACEMENT, COMPACT TO A MINIMUM OF 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY. THE SCARIFICATION DEPTH SHALL BE ADJUSTED SUCH THAT THE COMBINED THICKNESS OF THE EMBANKMENT FILL MATERIAL AND SCARIFICATION DEPTH SHALL BE 12 INCHES OR GREATER.
 - MAXIMUM LIQUID LIMIT = 45
 - MAXIMUM PLASTIC INDEX = 15
- COMPACTED SUBGRADE:
 - THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE.
 - IF PROOF ROLLING DETERMINES THAT THE SUBGRADE STABILIZATION CANNOT BE ACHIEVED, PERFORM 3 DYNAMIC CONE PENETROMETER (DCP) TESTS PER ACCESS ROAD SPUR, OR ONE FOR EVERY 1,000 L.F. OF ROAD, WHICHEVER IS GREATER AND CONSULT WITH THE GEOTECHNICAL ENGINEER TO DETERMINE WHICH OF THE FOLLOWING ALTERNATIVES WILL BE IMPLEMENTED:
 - SCARIFY, DRY, AND RECOMPACT SUBGRADE AND PERFORM ADDITIONAL PROOF ROLL.
 - REMOVE UNSUITABLE MATERIAL AND REPLACE WITH 3 INCH MINUS CRUSHED AGGREGATE BASE.
 - INCREASE ROAD BASE THICKNESS.
 - USE A MIRAFI HP-570 GEOTEXTILE FABRIC OR APPROVED EQUAL AND/OR TENSAR BX1200 OR APPROVED EQUAL AND CHANGE THE AGGREGATE BASE TO 3 INCH MINUS MATERIAL.
 - PROVIDE 3 MOISTURE DENSITY COMPACTION TESTS PER ACCESS ROAD SPUR, OR ONE FOR EVERY 1000 L.F. OF ROAD LENGTH, WHICHEVER IS GREATER. COMPACTED SUBGRADE MUST BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR GRANULAR SOILS AND AT -1 TO 2% OF OPTIMUM MOISTURE CONTENT FOR COHESIVE SOILS.
- AGGREGATE BASE:
 - AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL.
 - PROVIDE 1 DCP TEST FOR EVERY 1,000 L.F. OF ROAD LENGTH. ROAD BASE SHALL BE COMPACTED TO ACHIEVE A PENETRATION INDEX VALUE LESS THAN OR EQUAL TO 10 MM/BLOW OR EQUIVALENT TO A CBR VALUE GREATER THAN OR EQUAL TO 25 (WHICHEVER IS GREATER).
 - PROVIDE 1 SIEVE ANALYSIS (PROJECT MAX OF 20) PER 2500 CY OF ROAD BASE PLACED.
 - MAXIMUM LIQUID LIMIT = 45
 - MAXIMUM PLASTIC INDEX = 15
- CRANE PADS:
 - MOISTURE DENSITY TESTING SHALL BE PERFORMED AT A MINIMUM OF 2 PER CRANE PAD. CRANE PADS MUST BE COMPACTED TO A MINIMUM OF 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR GRANULAR SOILS AND AT -1 TO +2% OF OPTIMUM MOISTURE CONTENT FOR COHESIVE SOILS.
 - ALL CRANE PADS MUST BE PROOF ROLLED PRIOR TO UTILIZATION.
 - IF THE CRANE PAD CANNOT ACHIEVE PROOF-ROLL ACCEPTANCE AS DETERMINED BY THE GEOTECHNICAL ENGINEER, DCP TEST MAY BE USED. WHEN UTILIZED, DCP TESTING SHALL BE USED AT MINIMUM RATE OF 2 PER CRANE PAD AND ACHIEVE A MAXIMUM OF 24 MM/BLOW.
 - AT THE CONTRACTOR'S DISCRETION, CRANE MATS MAY BE UTILIZED TO PROVIDE ADDITIONAL STABILITY.
- CRANE PATHS/CRANE TRAVEL SHOULDERS:
 - CRANE PATHS AND CRANE TRAVEL SHOULDERS SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH.
 - WHERE REQUIRED TO SUPPORT CRANE TRAVEL, SCARIFY AND COMPACT EXISTING SOILS TO A DEPTH OF 6-INCHES AND TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AT ±3% OF OPTIMUM MOISTURE CONTENT FOR GRANULAR SOILS AND AT -1 TO +2% OF OPTIMUM MOISTURE CONTENT FOR COHESIVE SOILS.

TABLE 2: TESTING SCHEDULE SUMMARY

LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE
COMPACTED SUBGRADE	PROOF-ROLL	ENTIRE LENGTH
	MOISTURE DENSITY TEST (NUCLEAR DENSITY) DCP (NO! REQUIRED UNLESS PROOF ROLL FAILS)	1 PER 1000 FT OR MIN. 3 PER ROAD 1 PER 1000 F 1
AGGREGATE BASE	PROOF ROLL	ENTIRE AREA
	SIEVE ANALYSIS, LL, PL, AND LA ABRASION	1 PER 2,500 CY
CRANE PAD COMPACTED SUBGRADE	DCP TEST	1 PER 1000 LF OF ROAD
	PROOF ROLL	ENTIRE AREA
CRANE PAD COMPACTED SUBGRADE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	2 PER PAD
	DCP (NO! REQUIRED UNLESS PROOF ROLL FAILS)	2 PER PAD
CRANE SHOULDERS	PROOF ROLL	ENTIRE LENGTH

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DRAWING NO.				GN-2			
				SHEET 4 OF 81			

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LEGEND

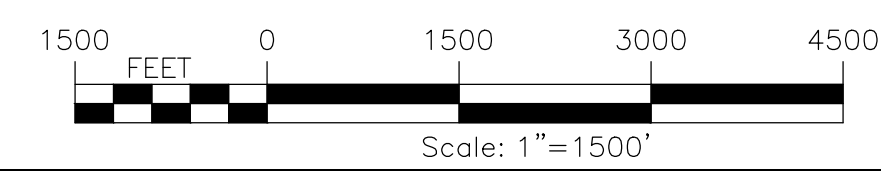
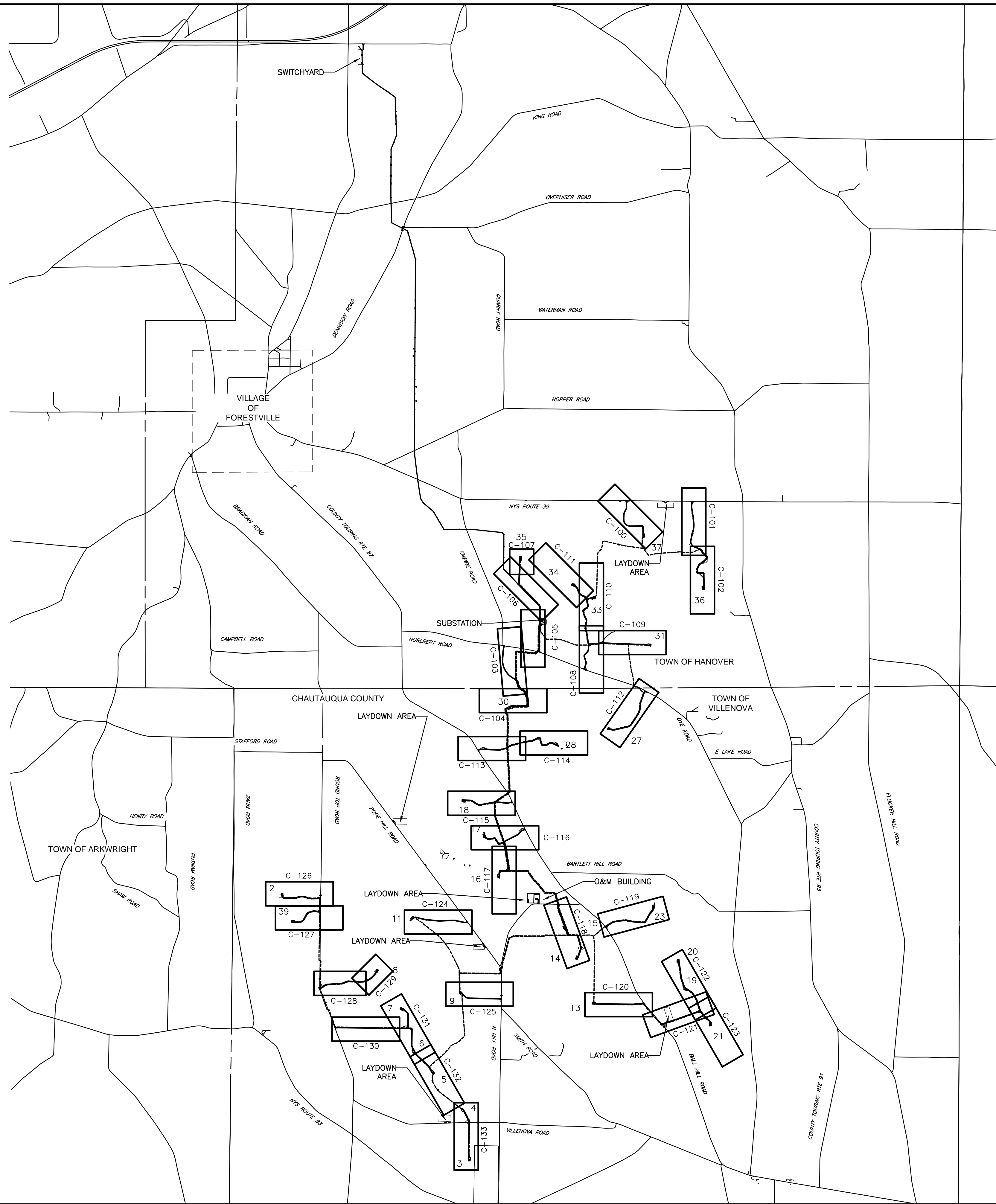
→ TURBINE COMPONENT DELIVERY ROUTE

■ R-1 INTERSECTION IMPROVEMENT SHEETS

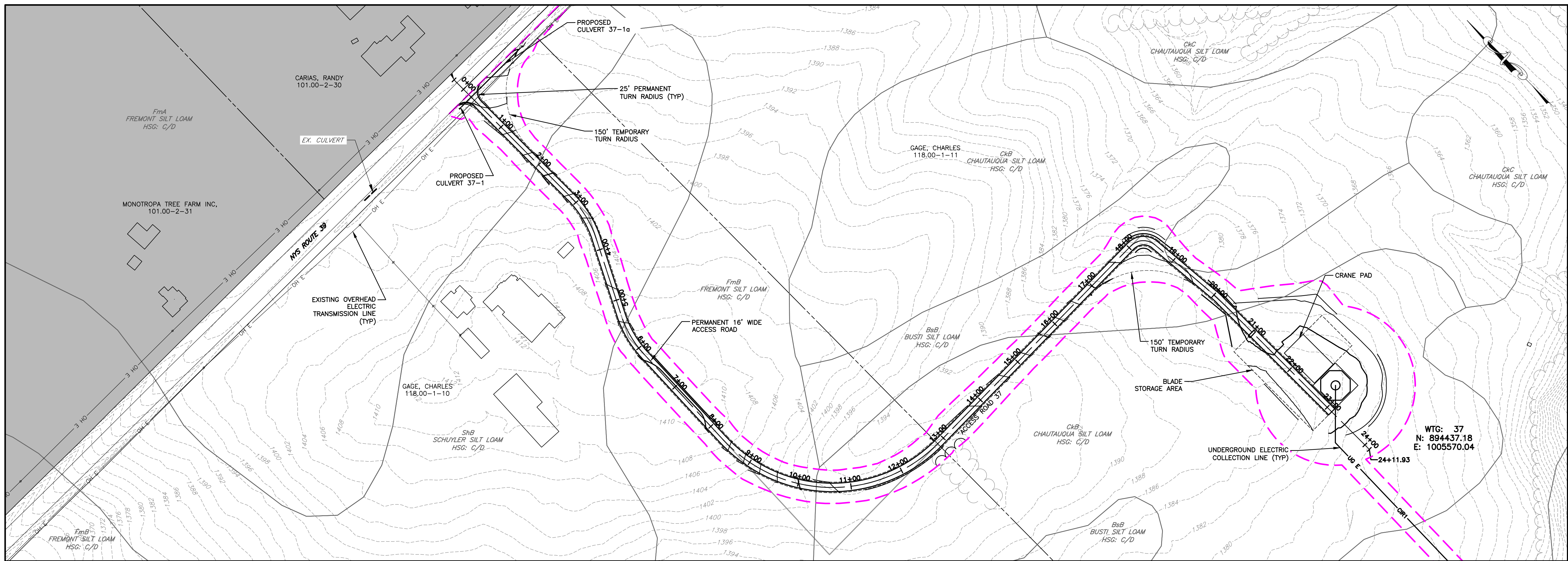
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 FEET
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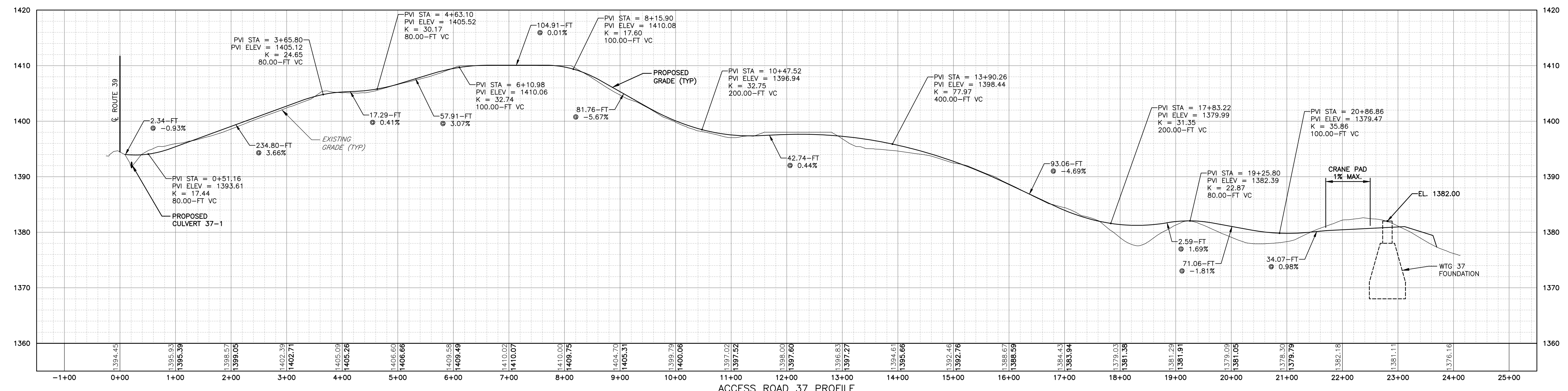
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING PLAN INDEX		DRAWING NO. IND-C		SHEET 6 OF 81	
PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK		ISSUE DATE OCT. 2016	
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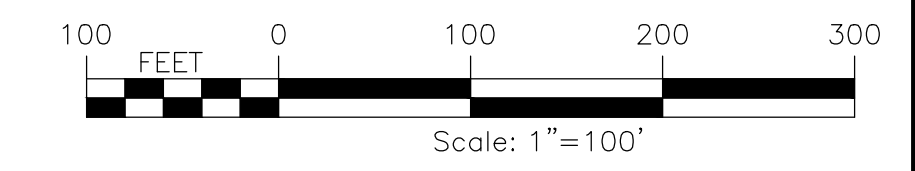


PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 37 PROFILE
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VERT: 1"=10'

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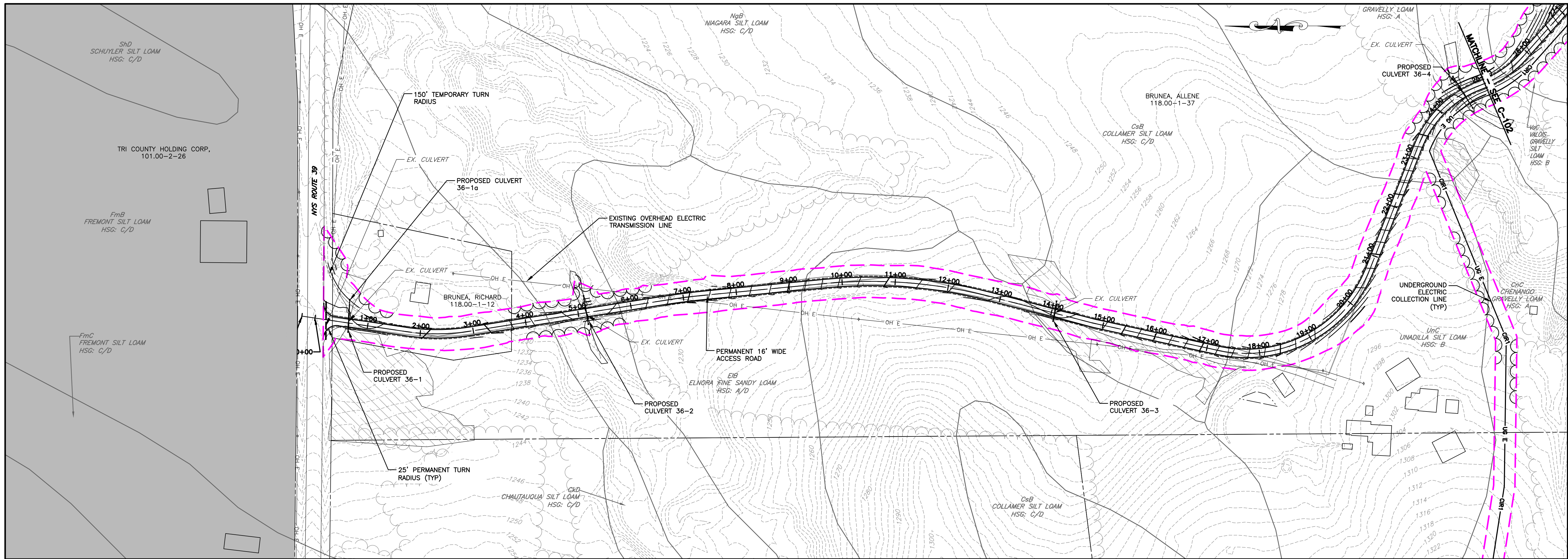


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TITLE OF DRAWING		SHEET 7 OF 81	
WTG 37 ACCESS RD PLAN & PROFILE			
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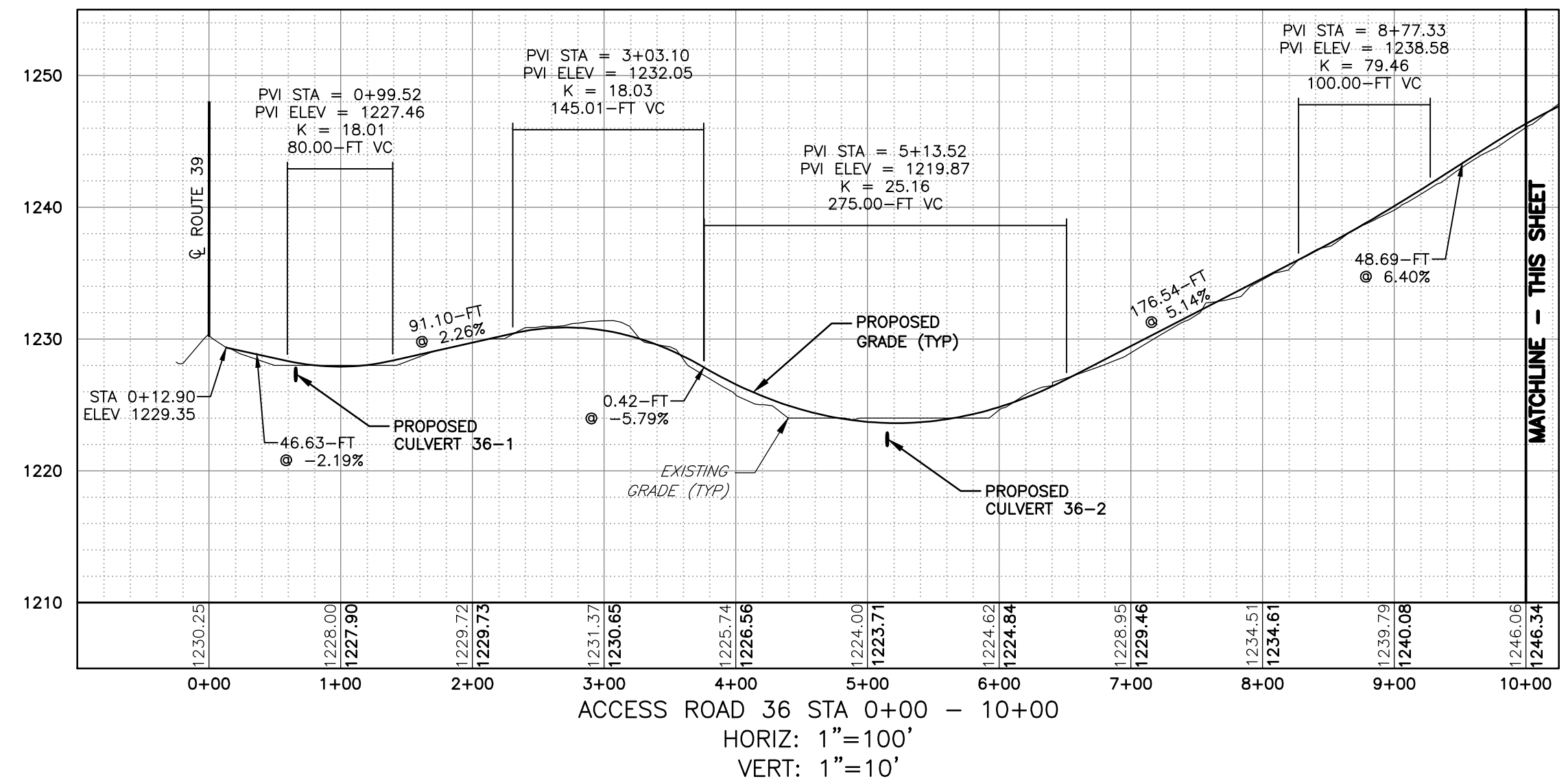
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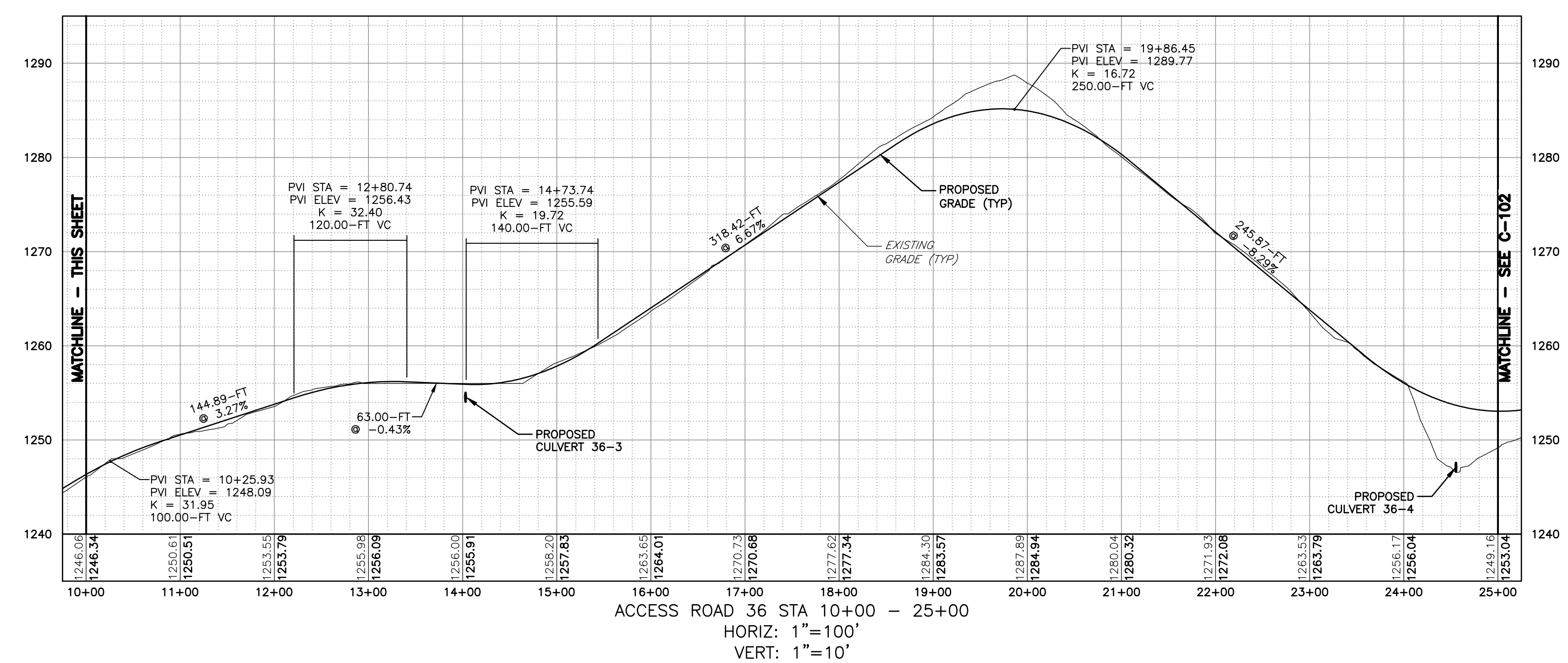
CRANE PAD
BLADE STORAGE AREA
150' TEMPORARY TURN RADIUS
UNDERGROUND ELECTRIC COLLECTION LINE (TYP)
W6 E
24+11.93



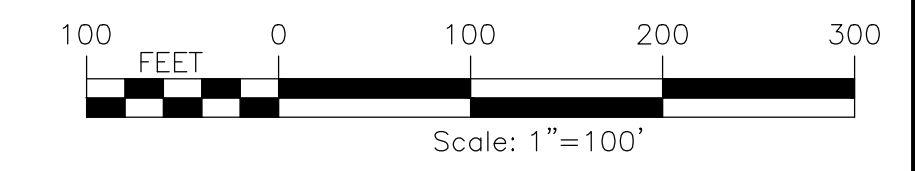
PLAN VIEW
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22x34 1"=100'



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HORIZ: 1"=100'
VERT: 1"=10'



ACCESS ROAD 36 STA 10+00 - 25+00
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VERT: 1"=10'

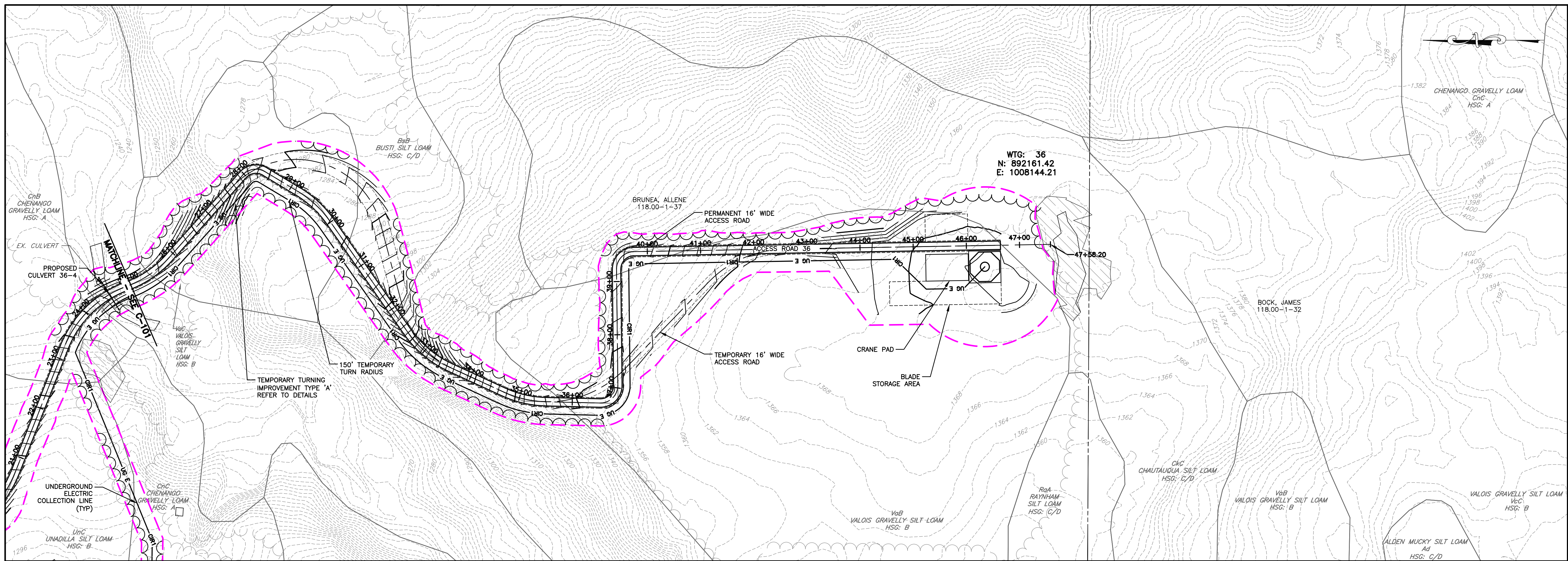


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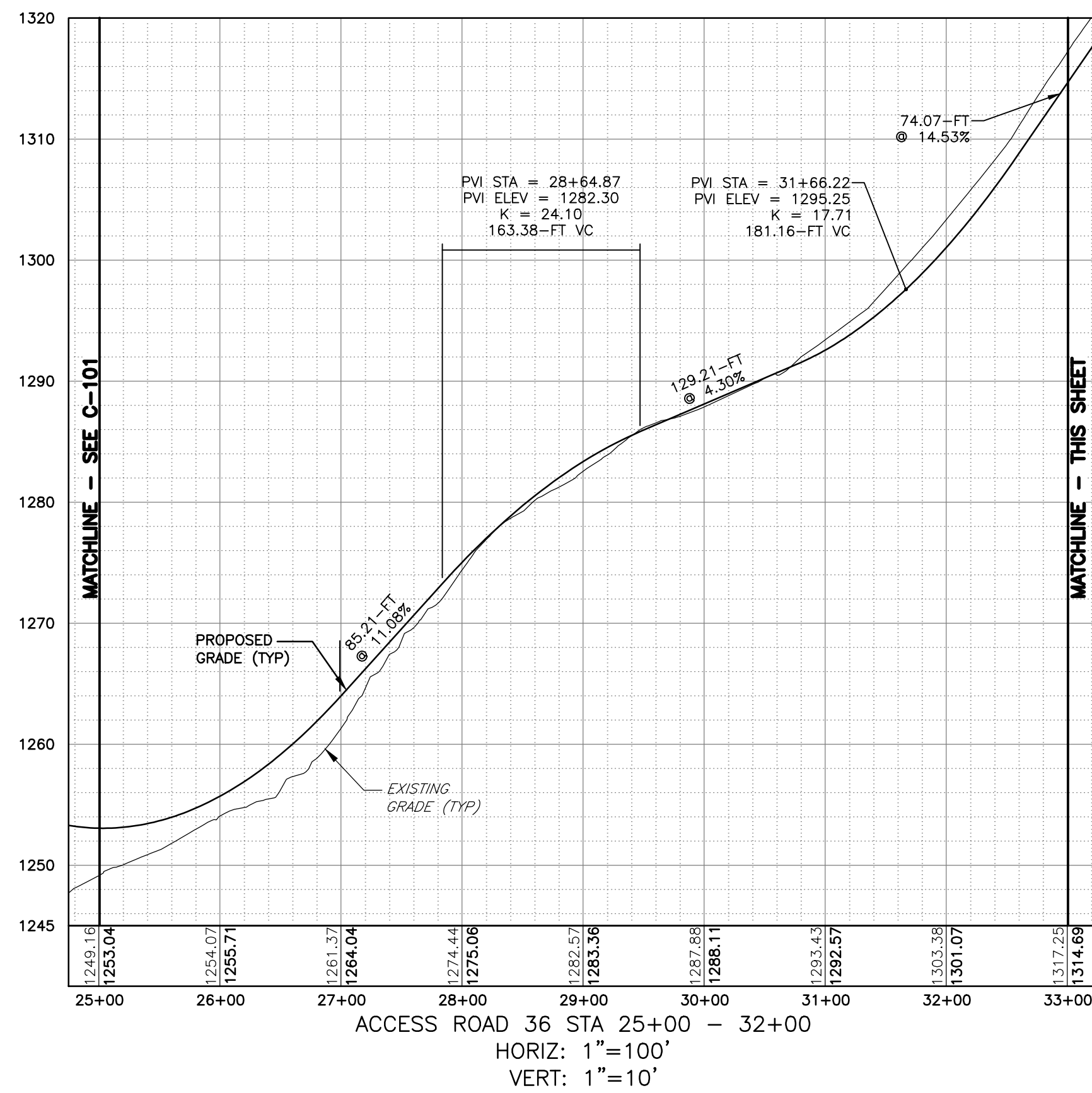
PROJECT	BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		
TITLE OF DRAWING	WTG 36 ACCESS RD PLAN & PROFILE		
DRAWING NO.	C-101		
SHEET 8 OF 81			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	BA, JS		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
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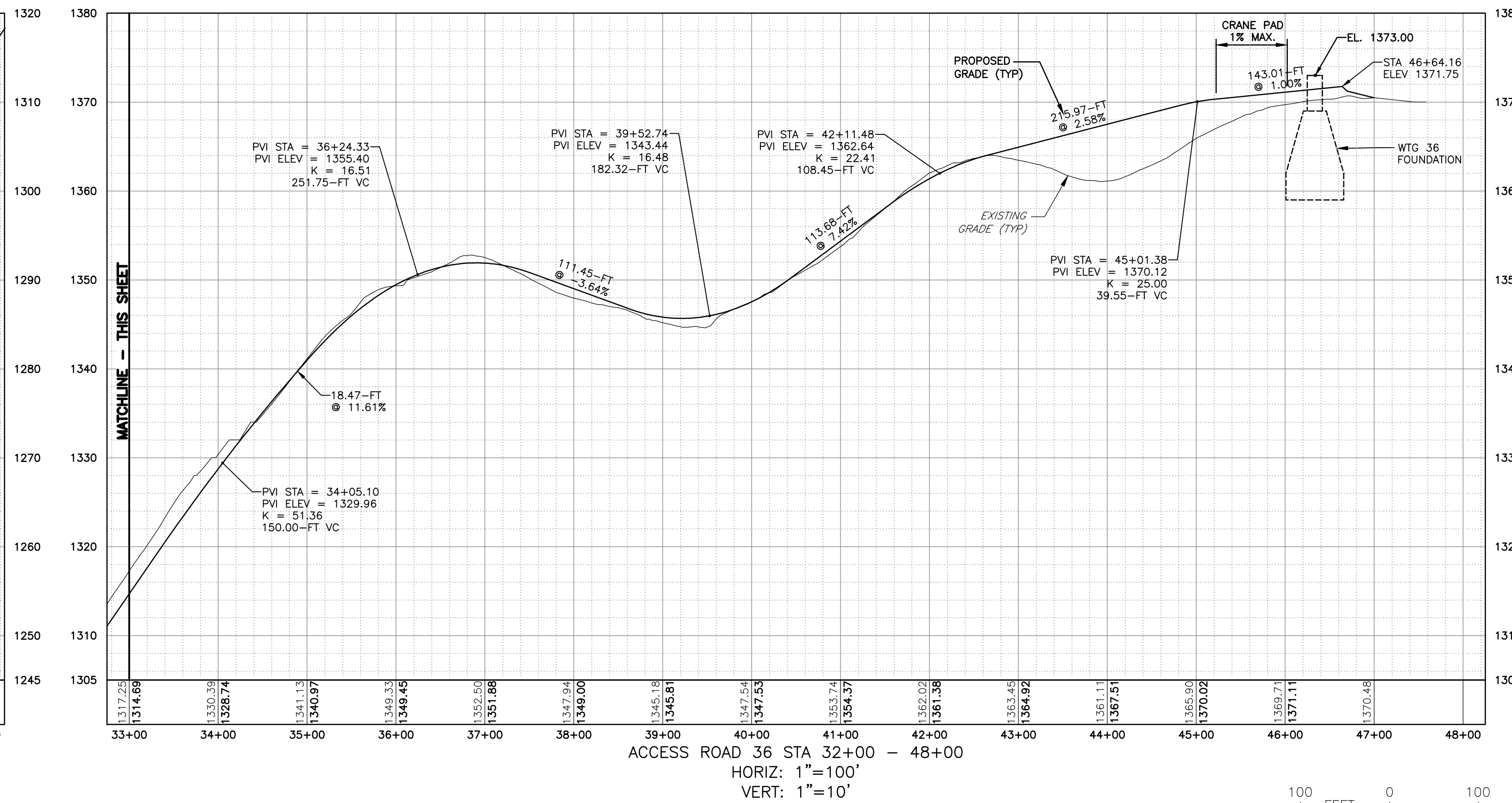
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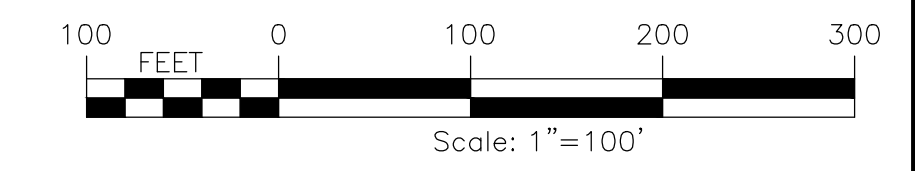
PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 36 STA 25+00 - 32+00
HORIZ: 1"=100'
VERT: 1"=10'



ACCESS ROAD 36 STA 32+00 - 48+00
HORIZ: 1"=100'
VERT: 1"=10'



REV	DESCRIPTION	DATE	BY
7			
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FA PROJECT NO.
150001
PROJECT MANAGER
P. MCCARTHY
DRAWN BY
BA, JS
SCALE
AS SHOWN
ISSUE DATE
OCT. 2016

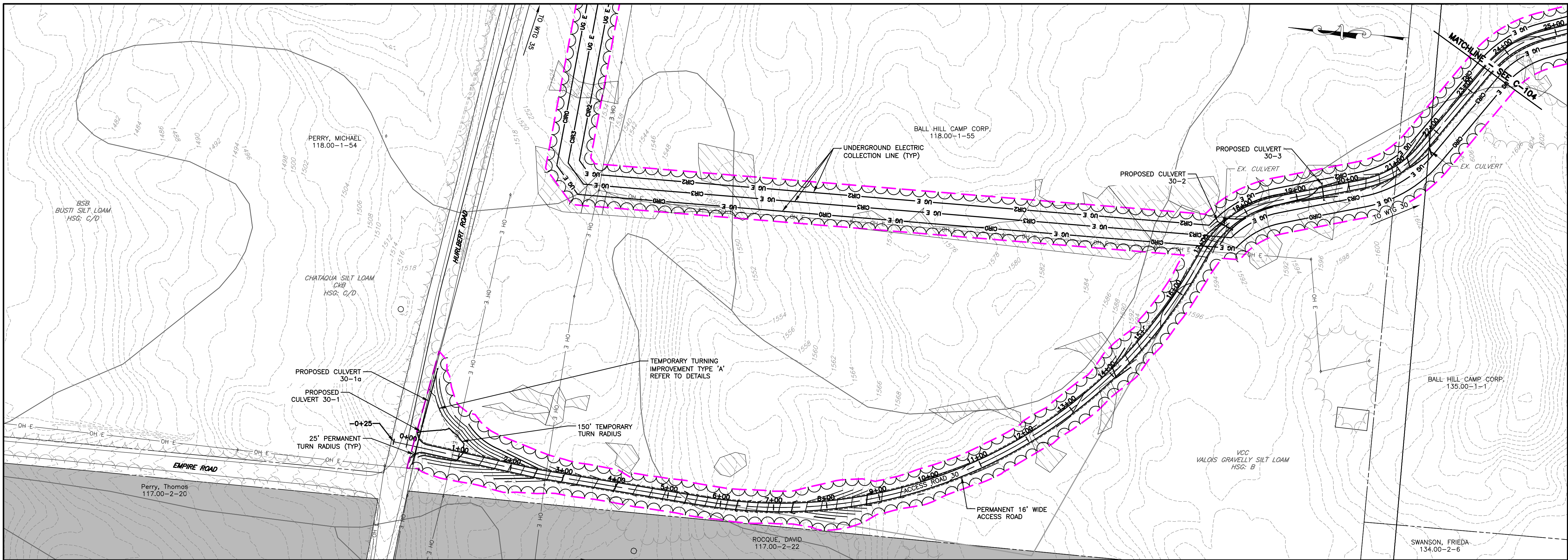
PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAQUA COUNTY, NY
PRELIMINARY PLANS

TITLE OF DRAWING
WTC 36 ACCESS RD PLAN & PROFILE

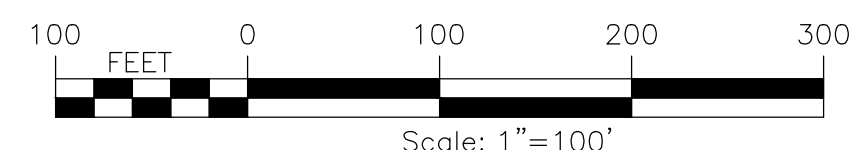
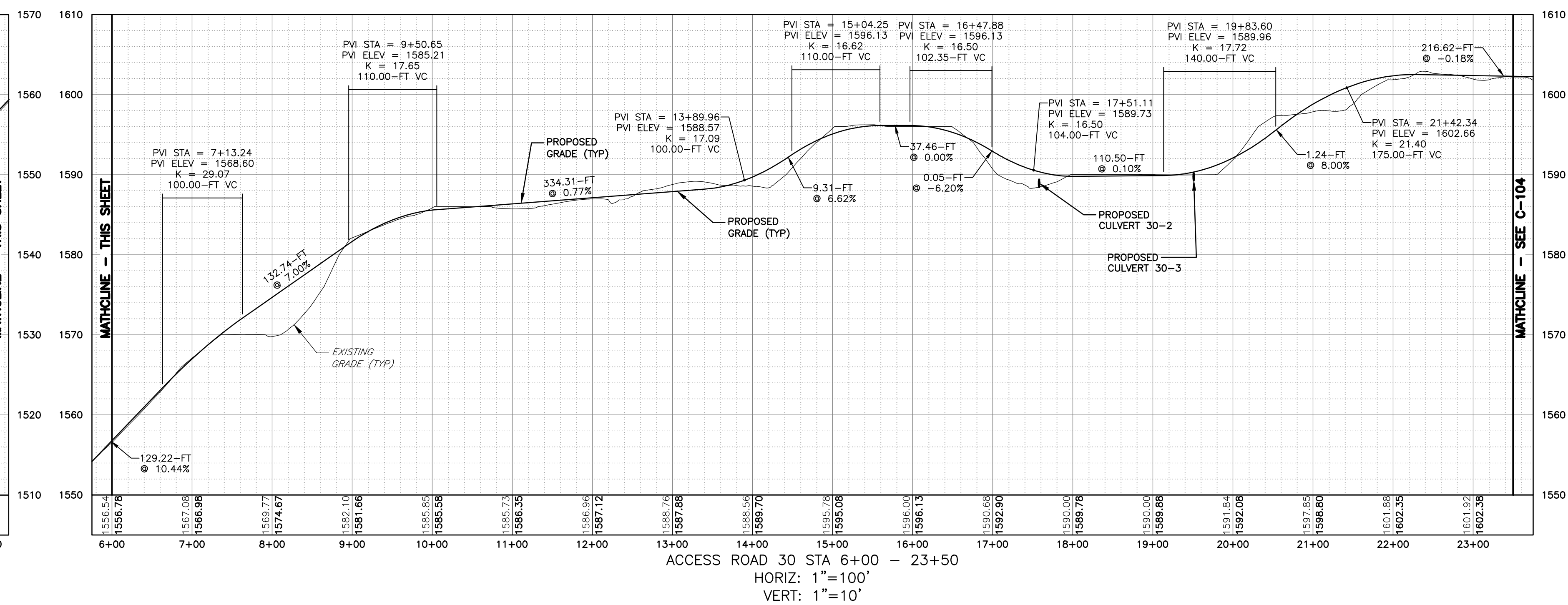
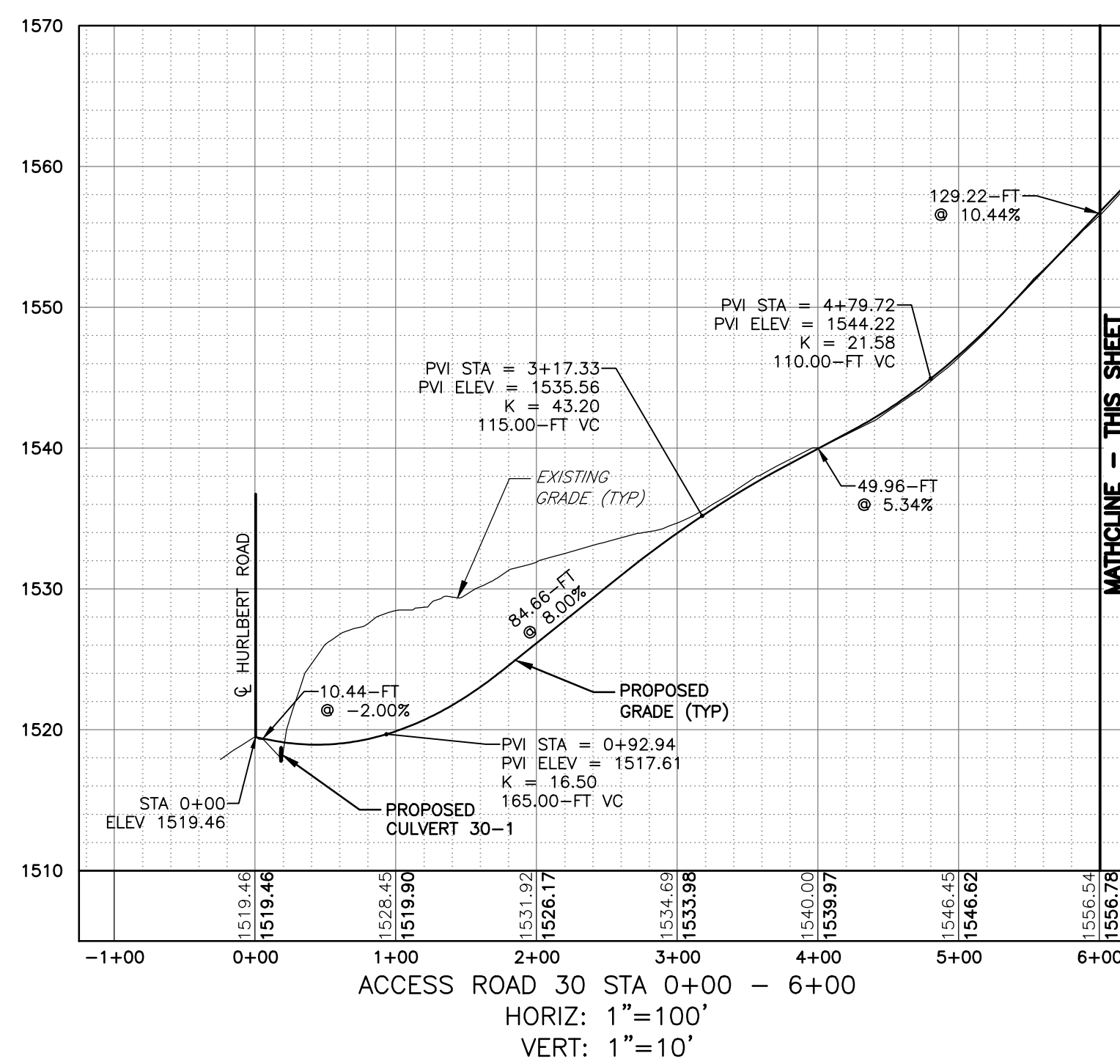
DRAWING NO.
C-102

SHEET 9 OF 81

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USER: Steven Mellott



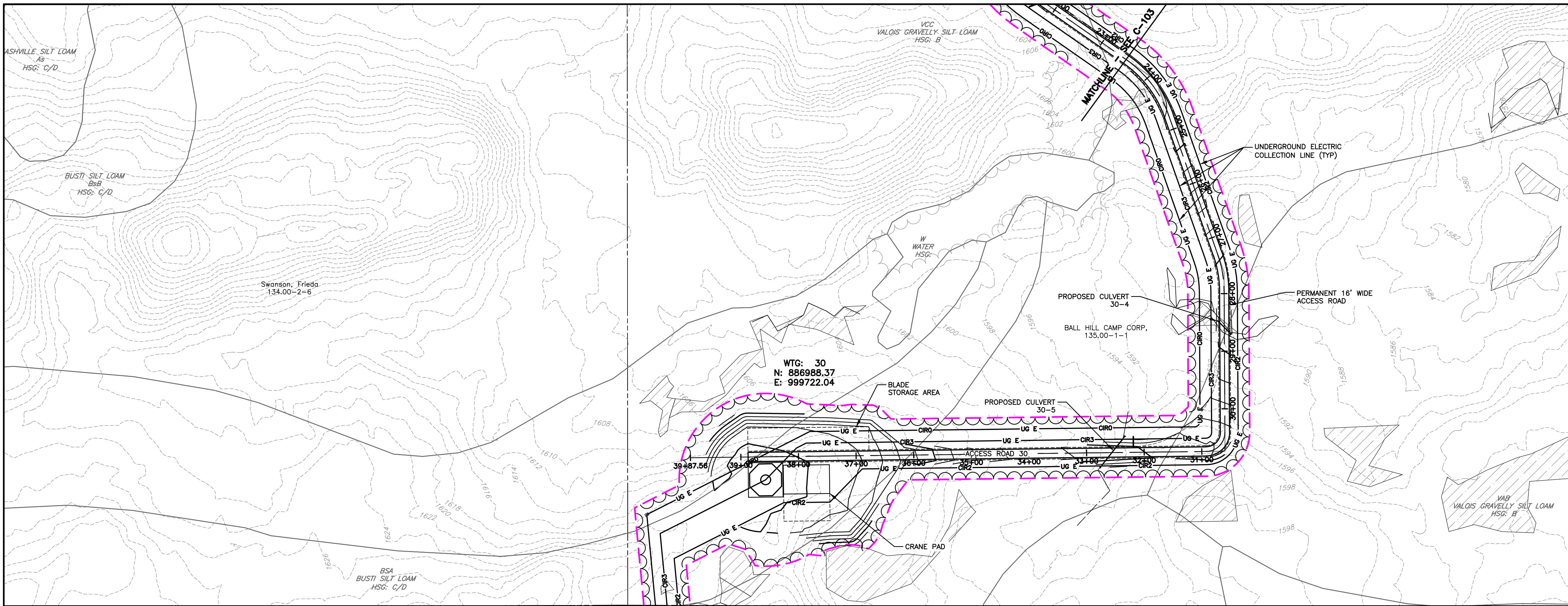
PLAN VIEW
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22X34 1"=100'



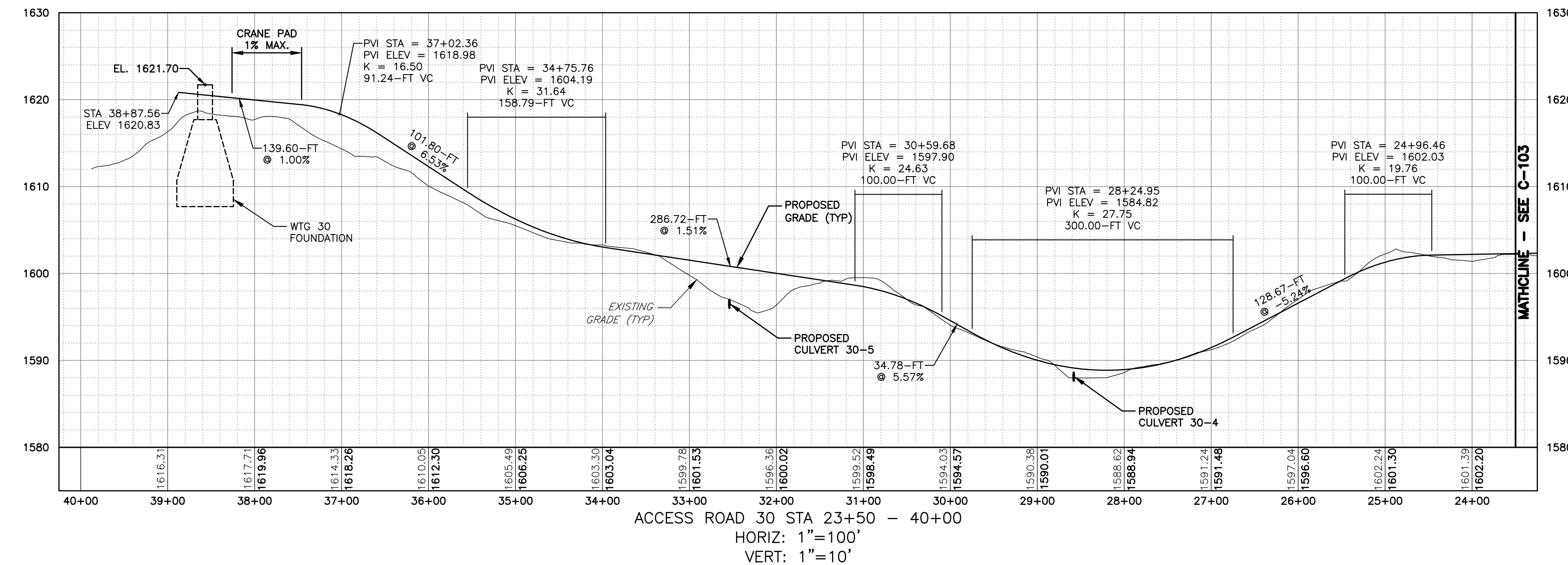
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PROJECT	BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHATAQUA COUNTY, NY PRELIMINARY PLANS		
TITLE OF DRAWING	WTG 30 ACCESS RD PLAN & PROFILE		
DRAWING NO.	C-103		
SHEET	10 OF 81		
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	VT, TK		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
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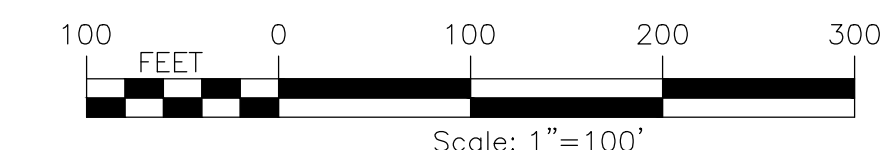
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PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 30 STA 23+50 - 40+00
HORIZ: 1"=100'
VERT: 1"=10'



REV	DESCRIPTION	DATE	BY
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ISSUE DATE
OCT. 2016

CRONKHITE, KEVIN
135.00-1-2



PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAQUA COUNTY, NY
PRELIMINARY PLANS

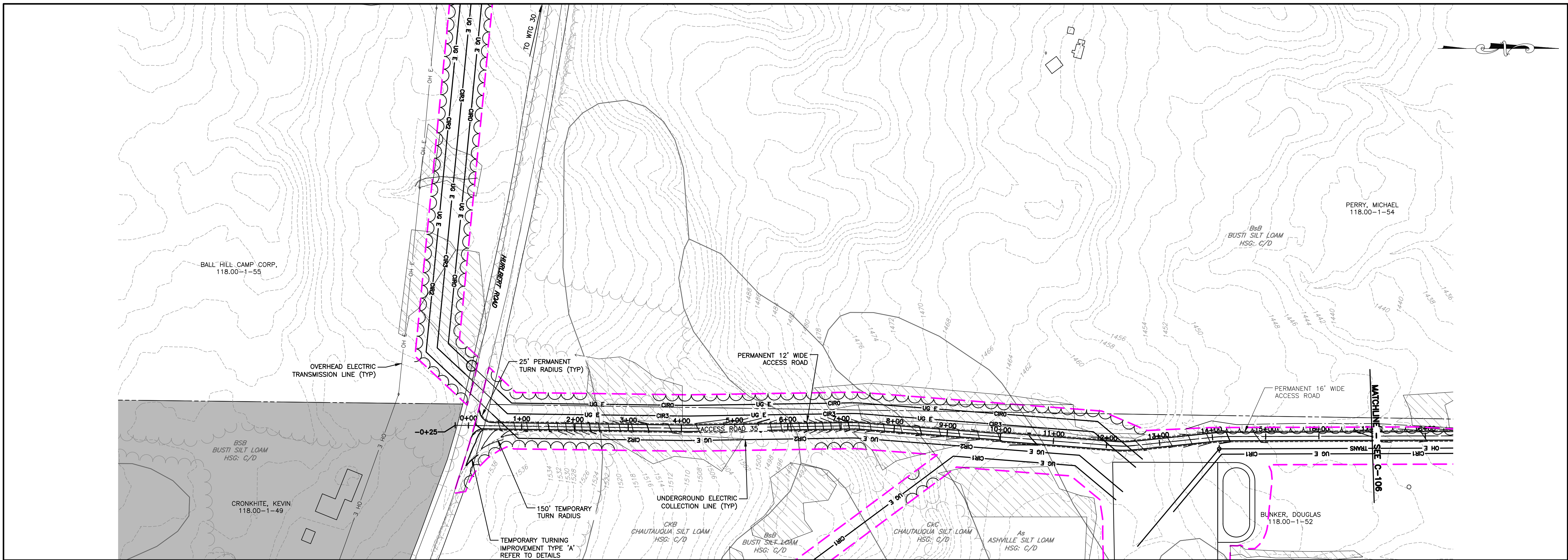
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WTG 30 ACCESS RD PLAN & PROFILE

DRAWING NO.
C-104

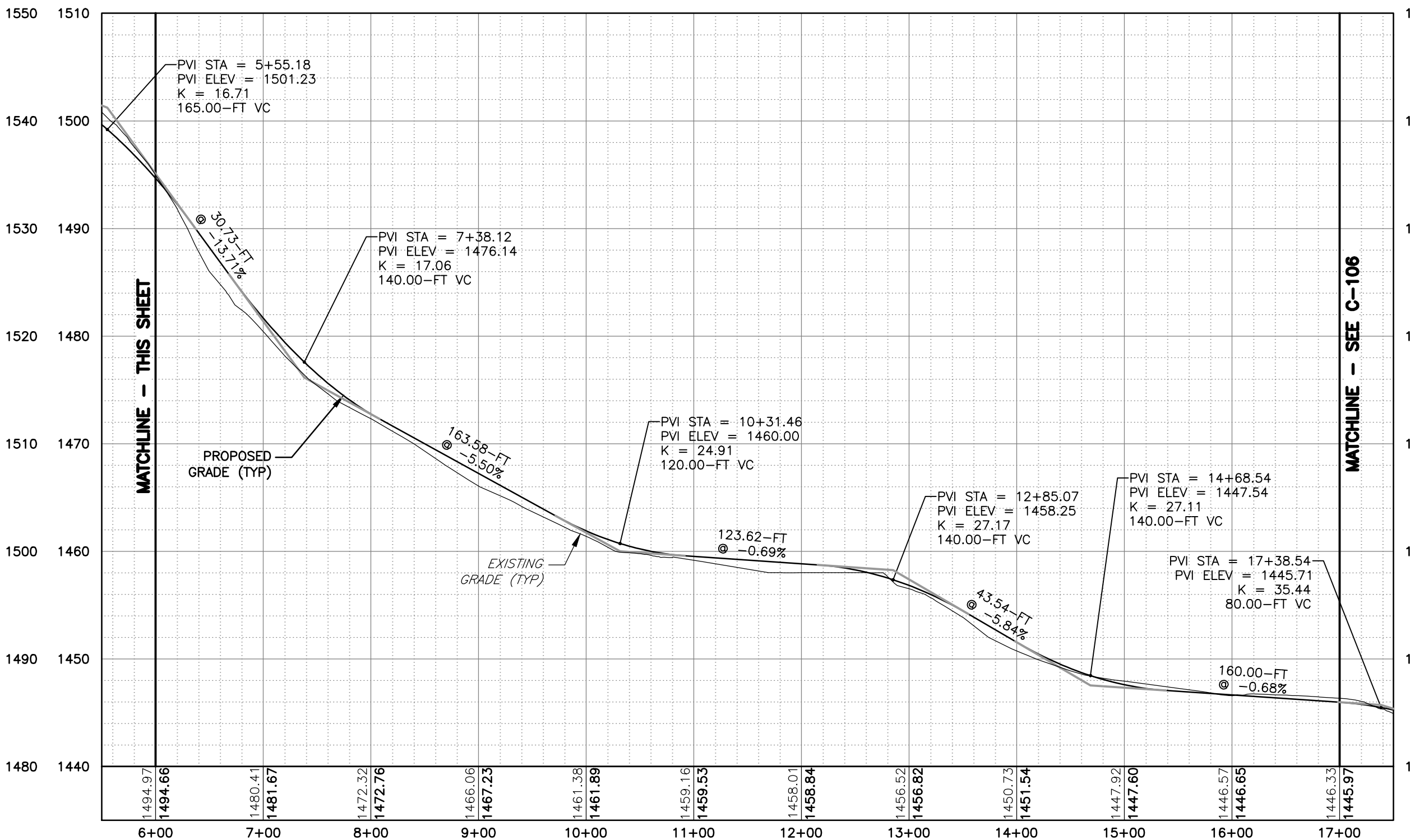
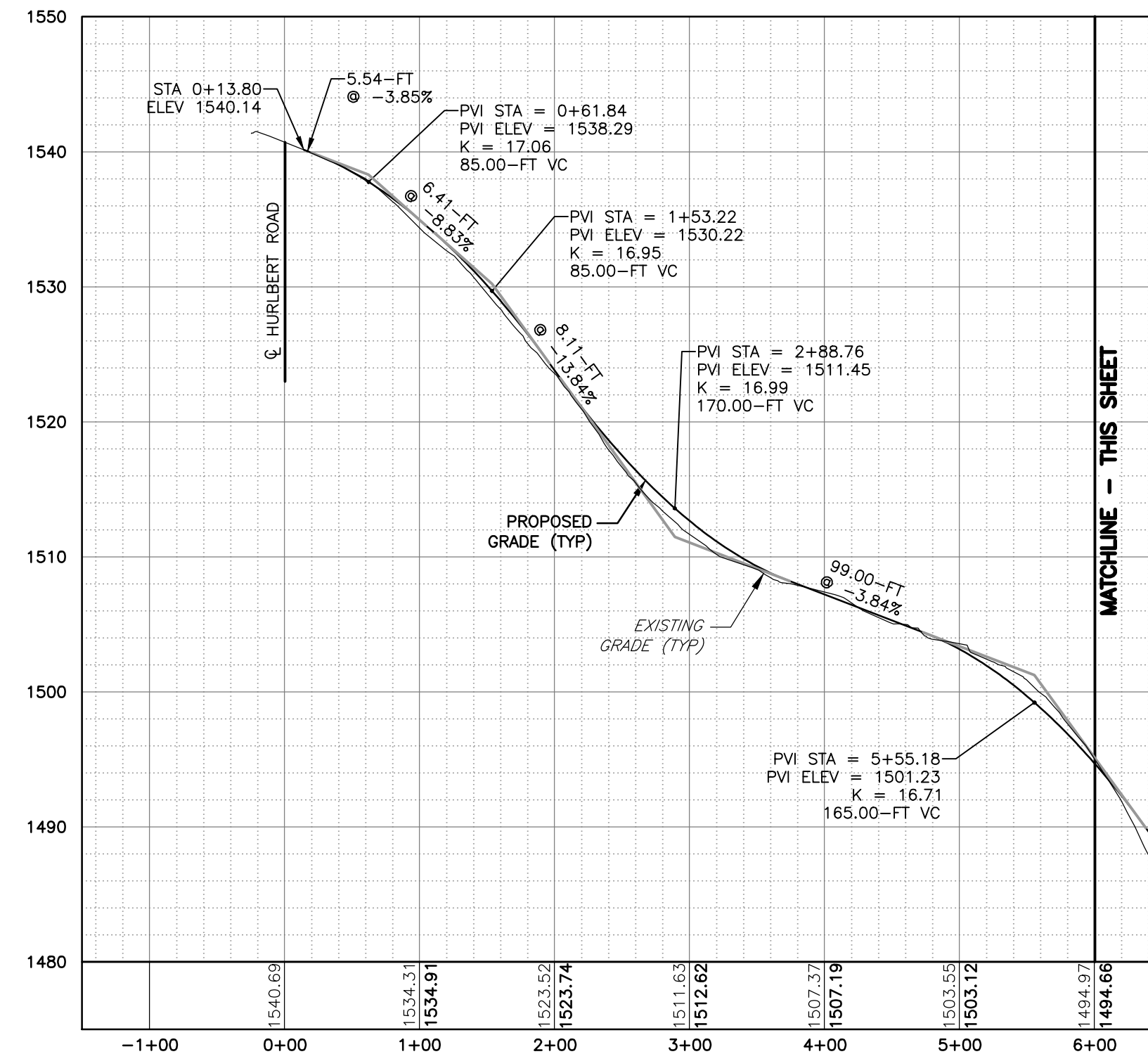
SHEET 11 OF 81

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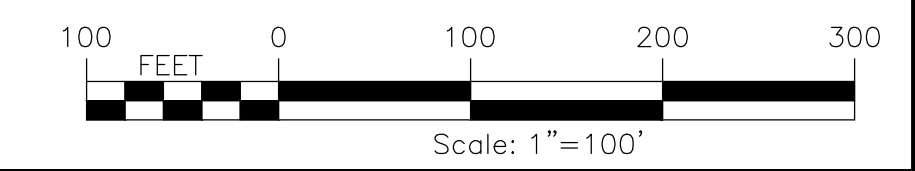
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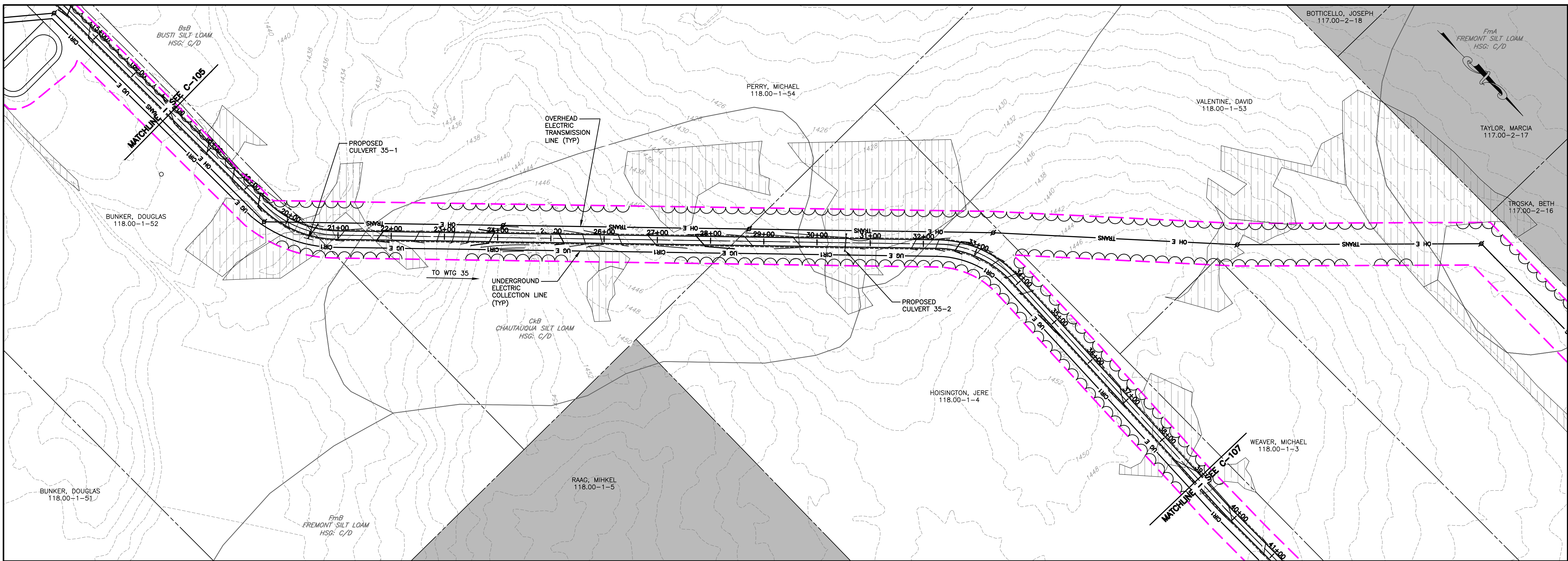
PLAN VIEW
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 22X34 1"=100'



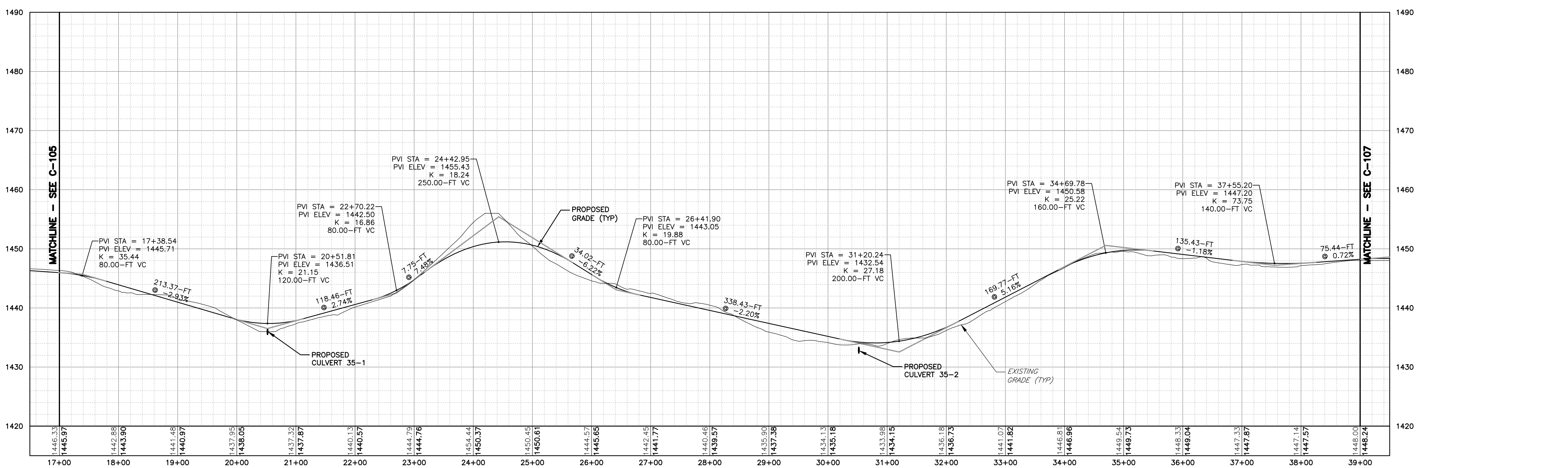
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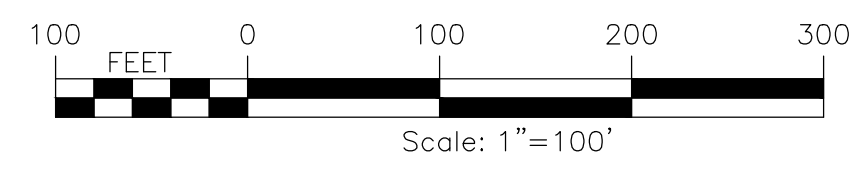
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTC 35 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-105		SHEET 12 OF 81	
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY	DRAWN BY VT, TK SCALE AS SHOWN	ISSUE DATE OCT. 2016	COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., D.P.C. New York State Education Law Section 1605.4 requires that all engineering drawings be prepared by a registered professional engineer or land surveyor, to alter on them in any way, in any form, including the use of electronic means, without the signature, seal and stamp of the drawing engineer or land surveyor. The notation "checked by" followed by a name and title is not a signature of the drafter.
REV 1 2 3 4 5 6 7	DESCRIPTION	DATE	BY



PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'



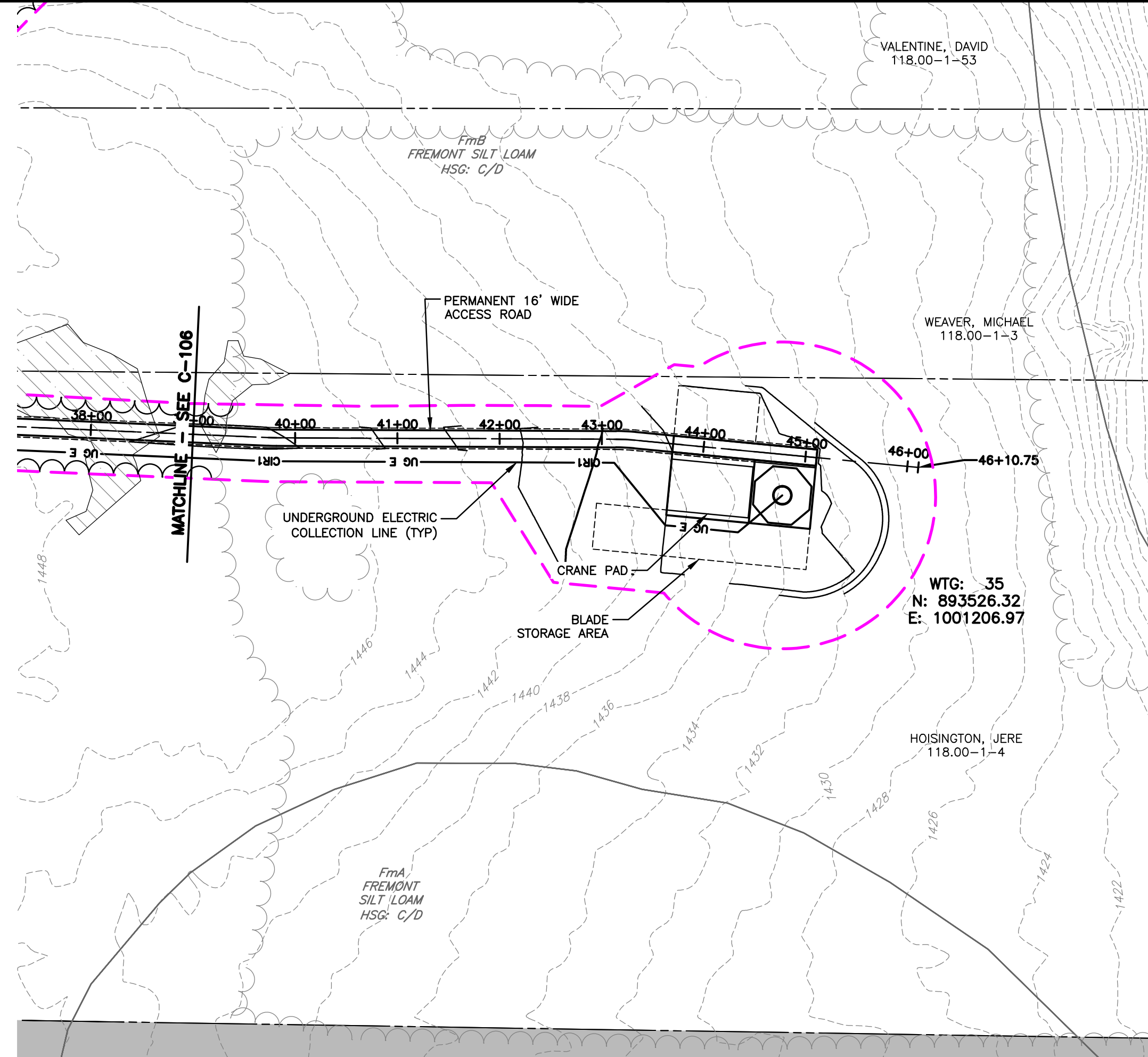
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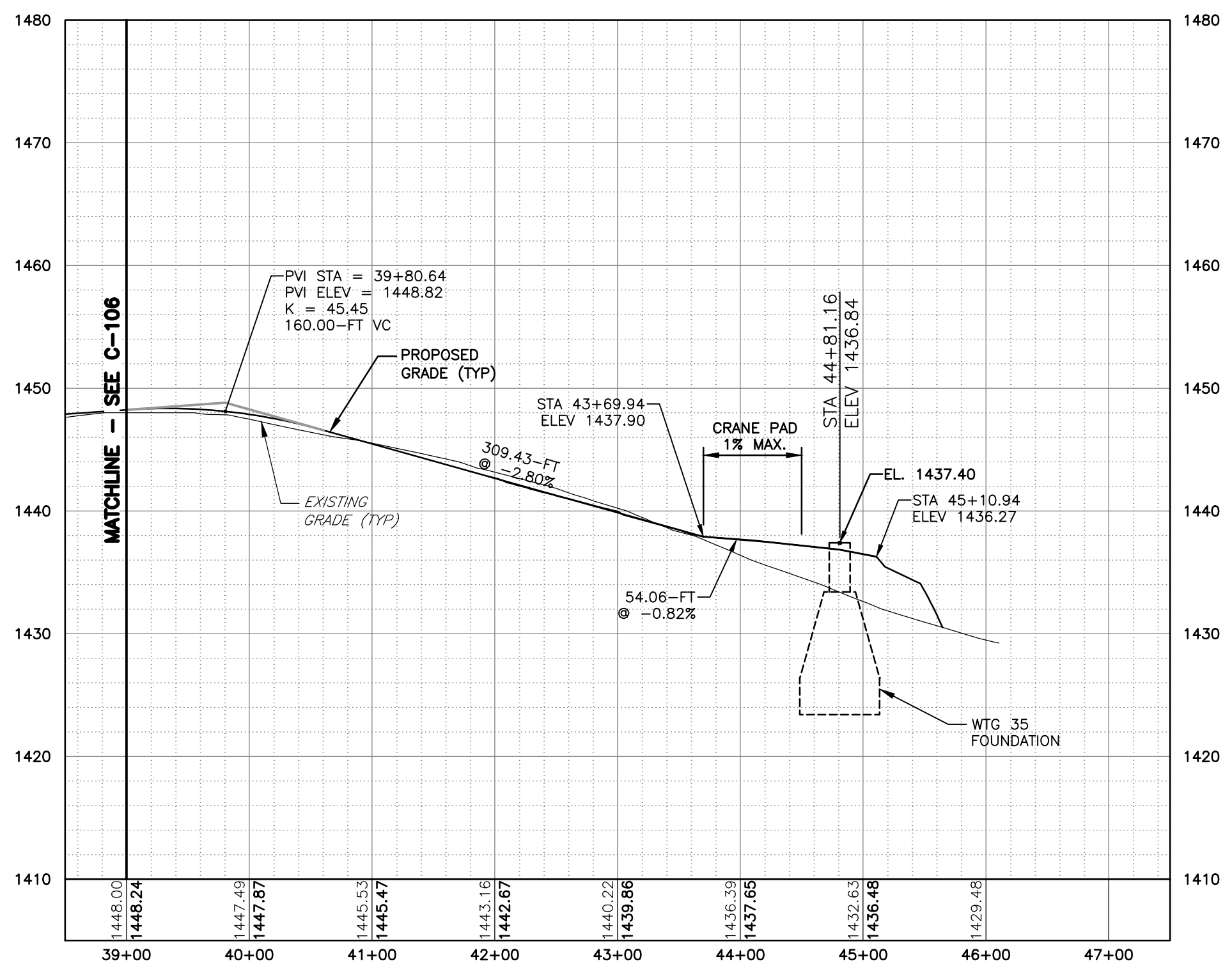
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 DATE/TIME: 10/14/2016 11:44:51 AM
 USER: Steven Mellott

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 35 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-106		SHEET 13 OF 81	
PROJECT NO. 150001		ISSUE DATE OCT. 2016	
PROJECT MANAGER P. MCCARTHY		SCALE AS SHOWN	
DRAWN BY VT, TK		AS SHOWN	
FA PROJECT NO. 150001		ISSUE DATE OCT. 2016	
PROJECT MANAGER P. MCCARTHY		SCALE AS SHOWN	
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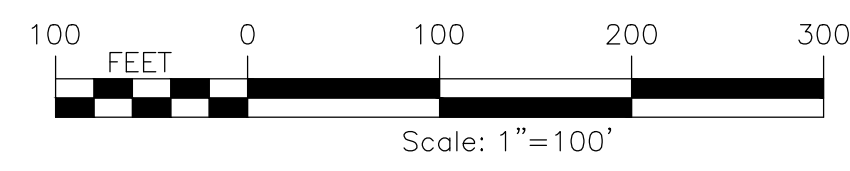





PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'

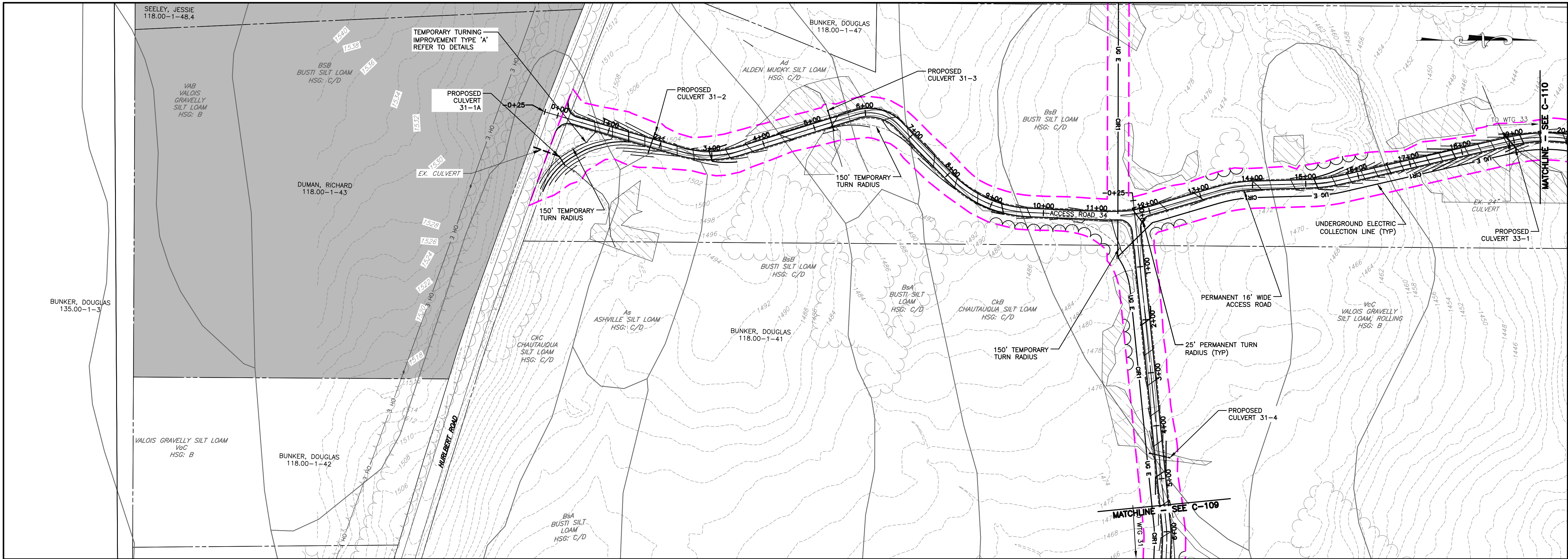


ACCESS ROAD 35 STA 39+00 - 47+00
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DATE/TIME: 10/14/2016 11:45:40 AM
USER: Steven Mellat

 WWW.FISHERASSOC.COM		PROJECT: BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		DRAWING NO. C-107	
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016		DESCRIPTION WTG 35 ACCESS RD PLAN & PROFILE	
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REV	DESCRIPTION	DATE	BY
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150001

PROJECT MANAGER
P. MCCARTHY

DRAWN BY
VT, TK

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ISSUE DATE
OCT. 2016

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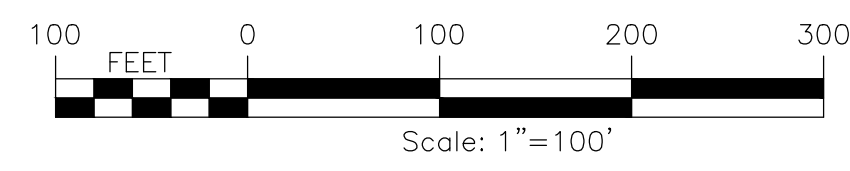
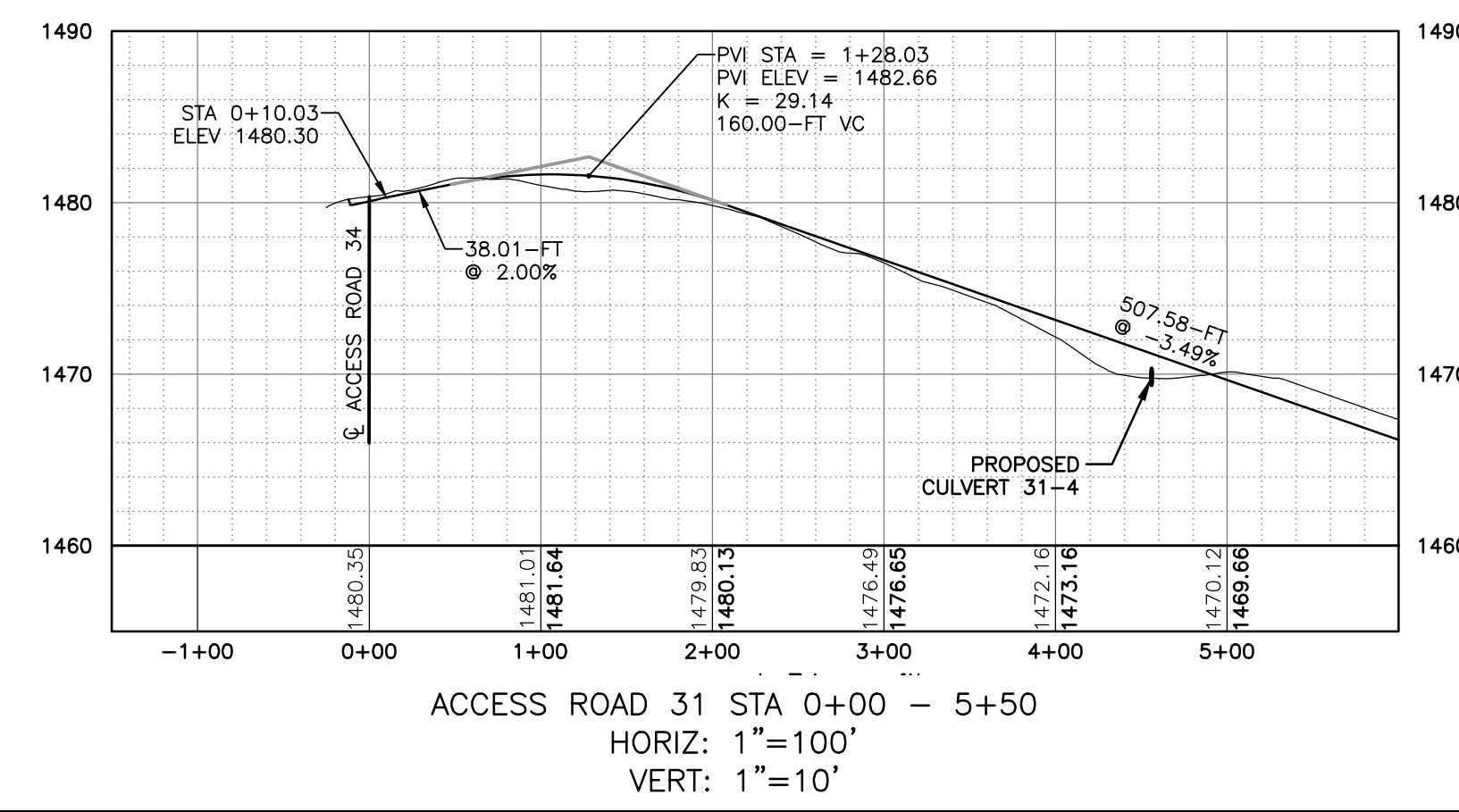
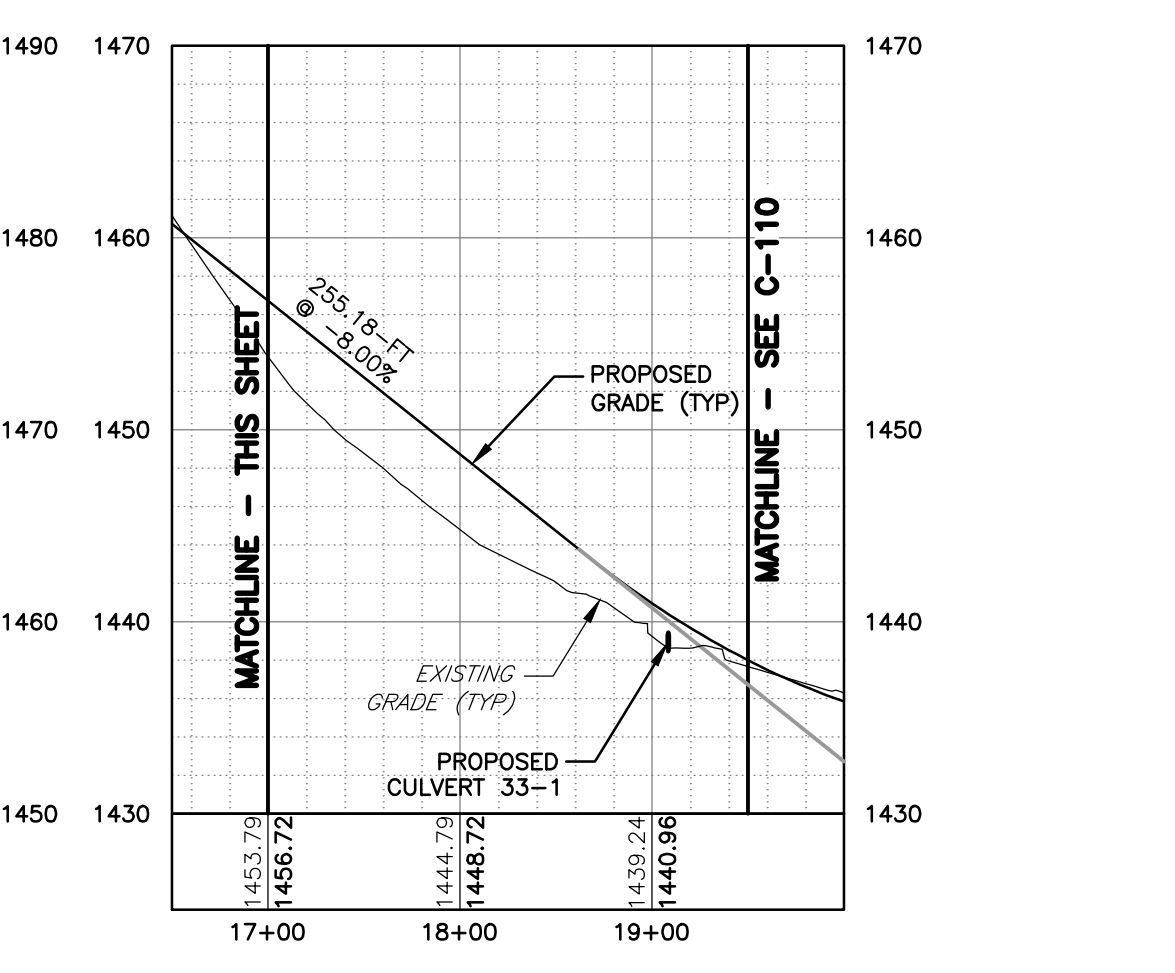
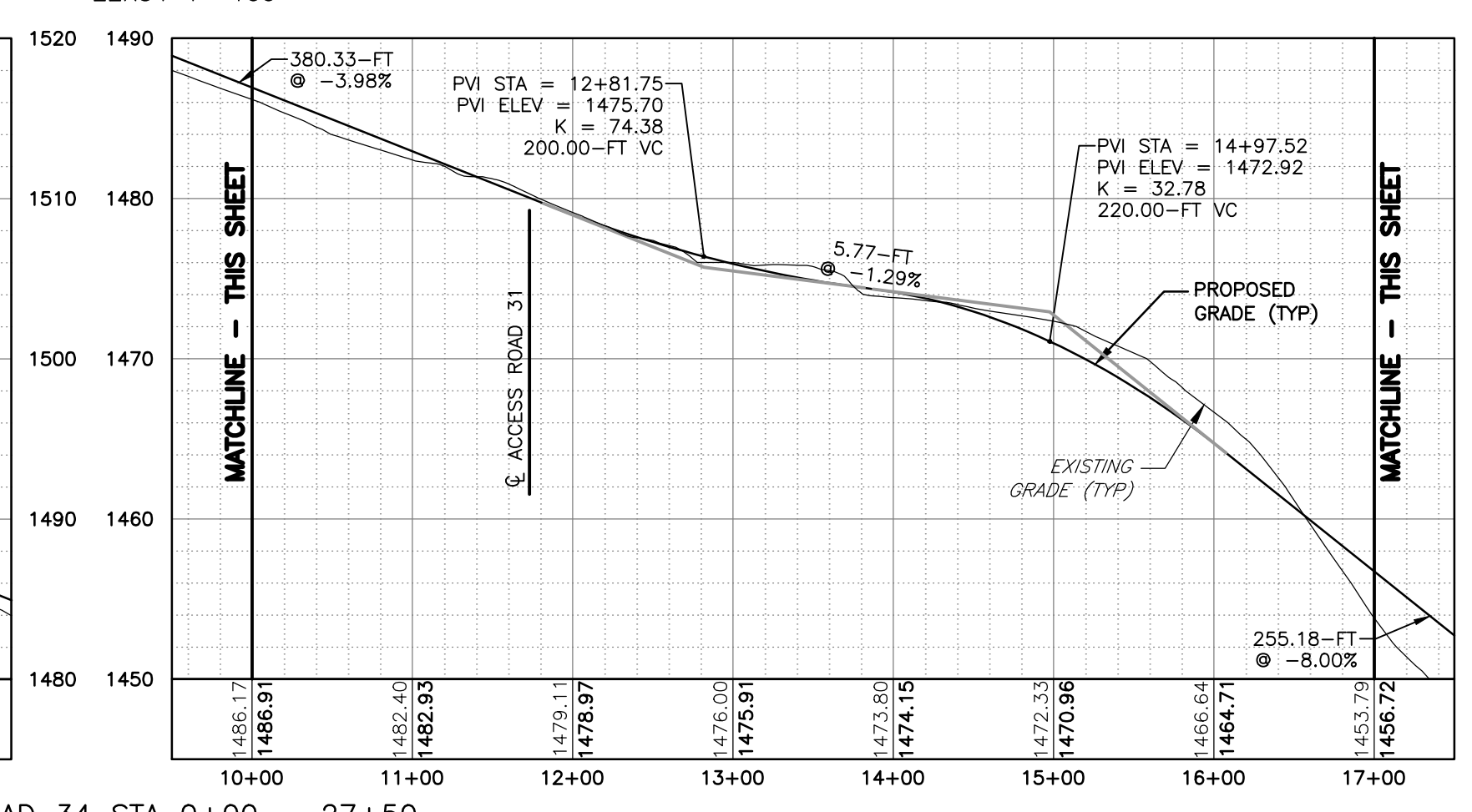
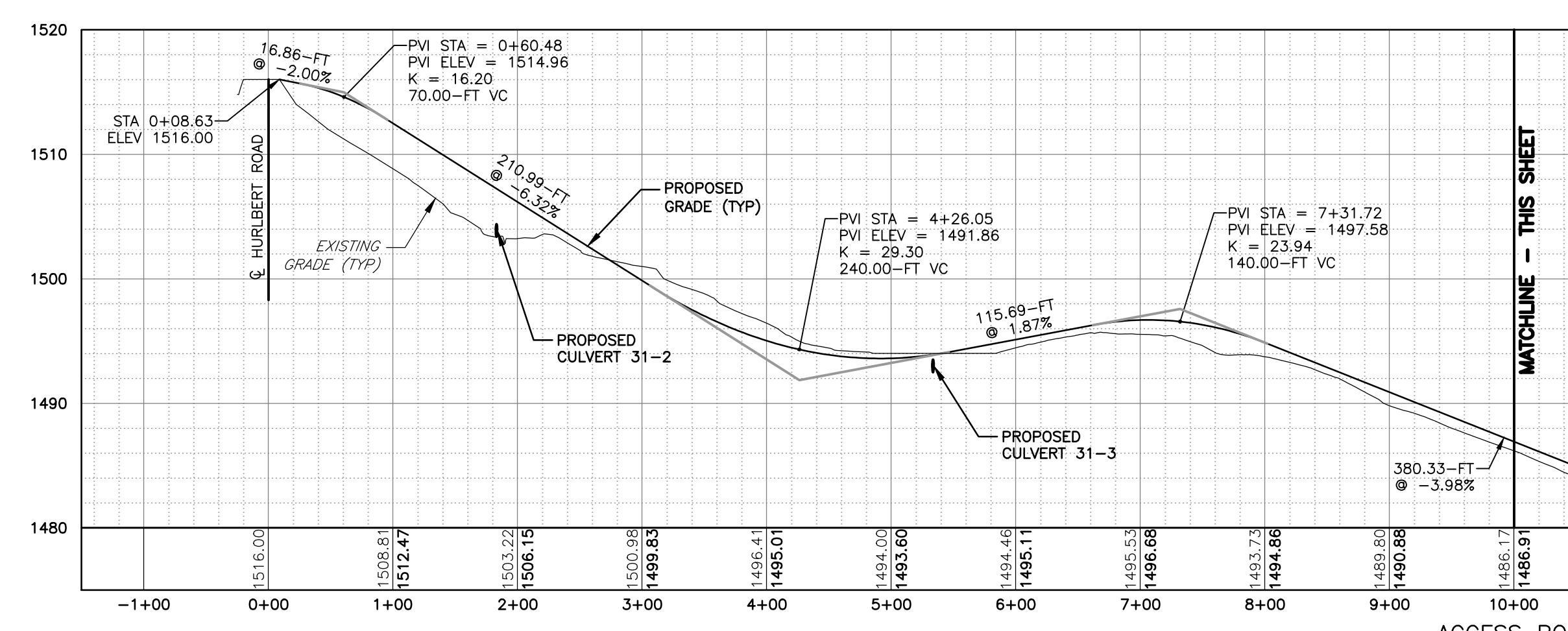
PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAQUA COUNTY, NY
PRELIMINARY PLANS

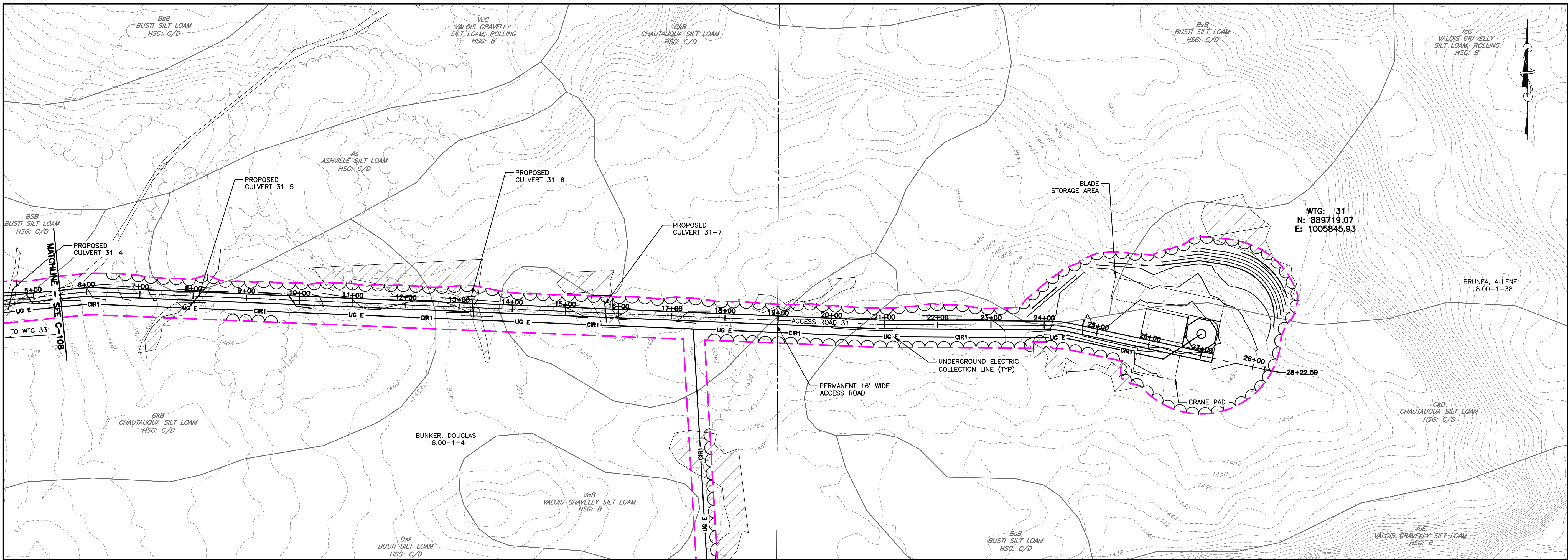
TITLE OF DRAWING
WTG 34 ACCESS RD PLAN & PROFILE

DRAWING NO.
C-108

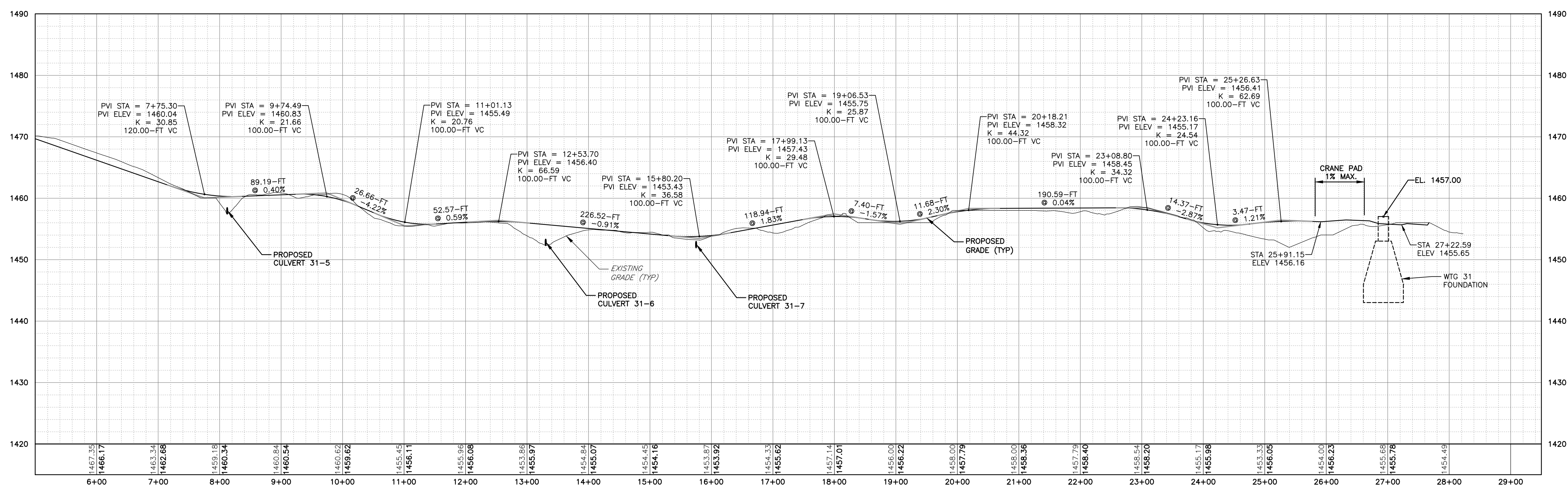
SHEET 15 OF 81

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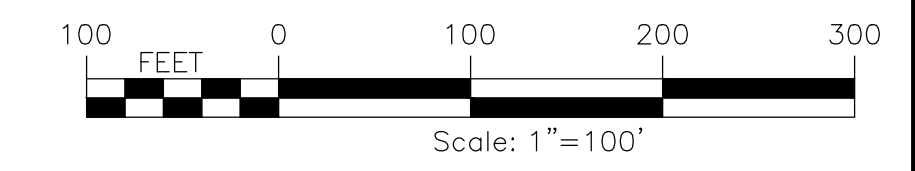




PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



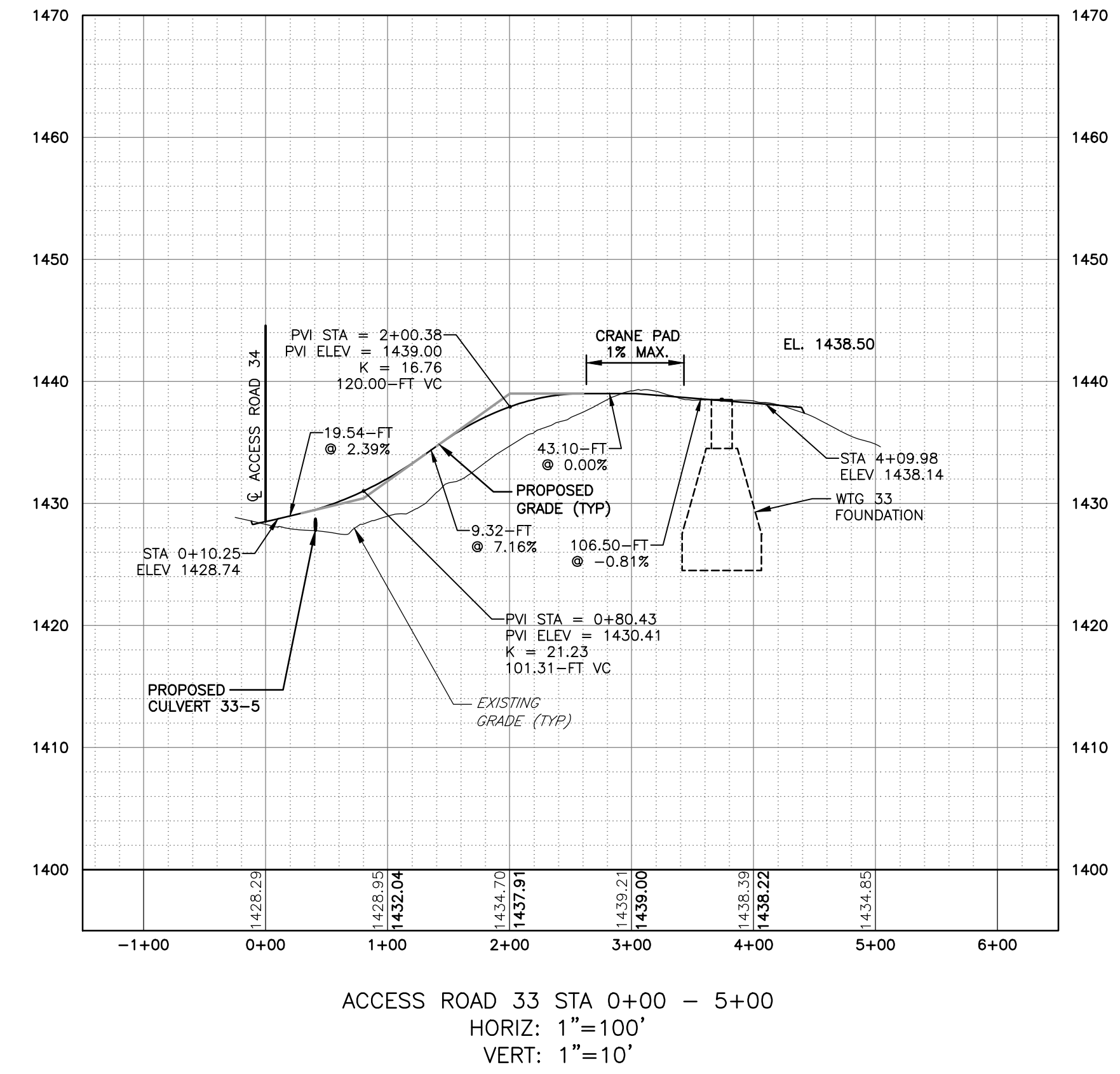
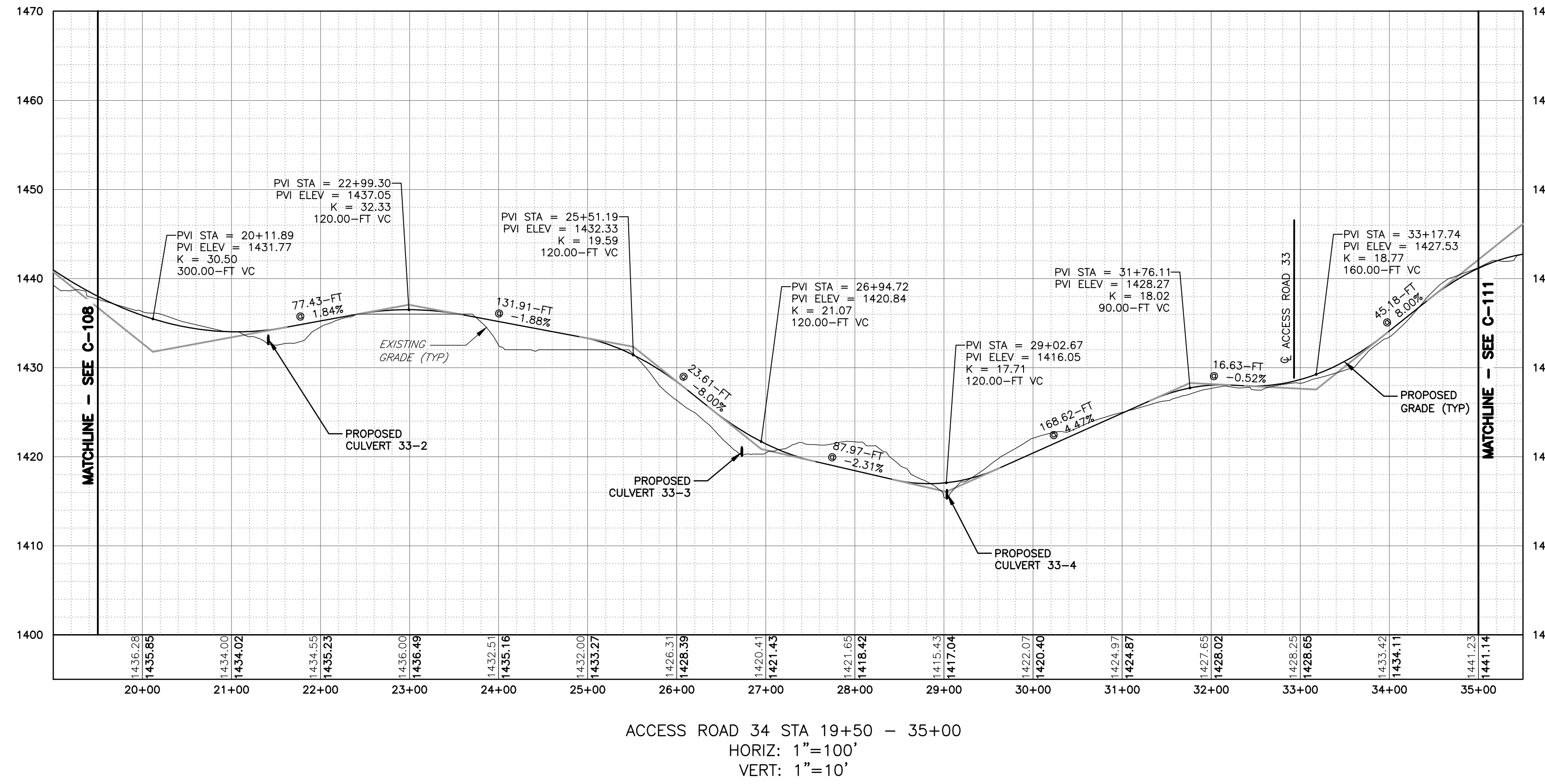
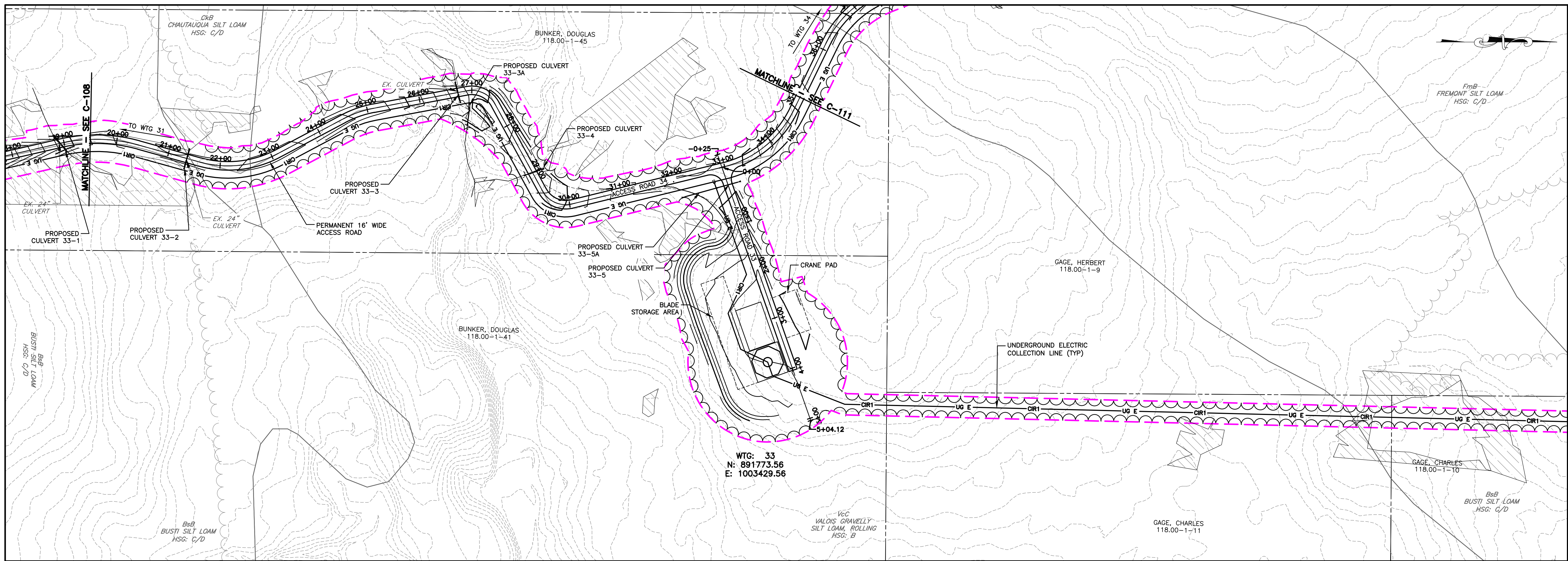
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DATE/TIME: 10/14/2016 11:47:46 AM
USER: Steven Mellat

PROJECT	BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		
TITLE OF DRAWING	WTG 31 ACCESS RD PLAN & PROFILE		
DRAWING NO.	C-109		
SHEET	16 OF 81		
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	VT, TK		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
REV	DESCRIPTION	DATE	BY
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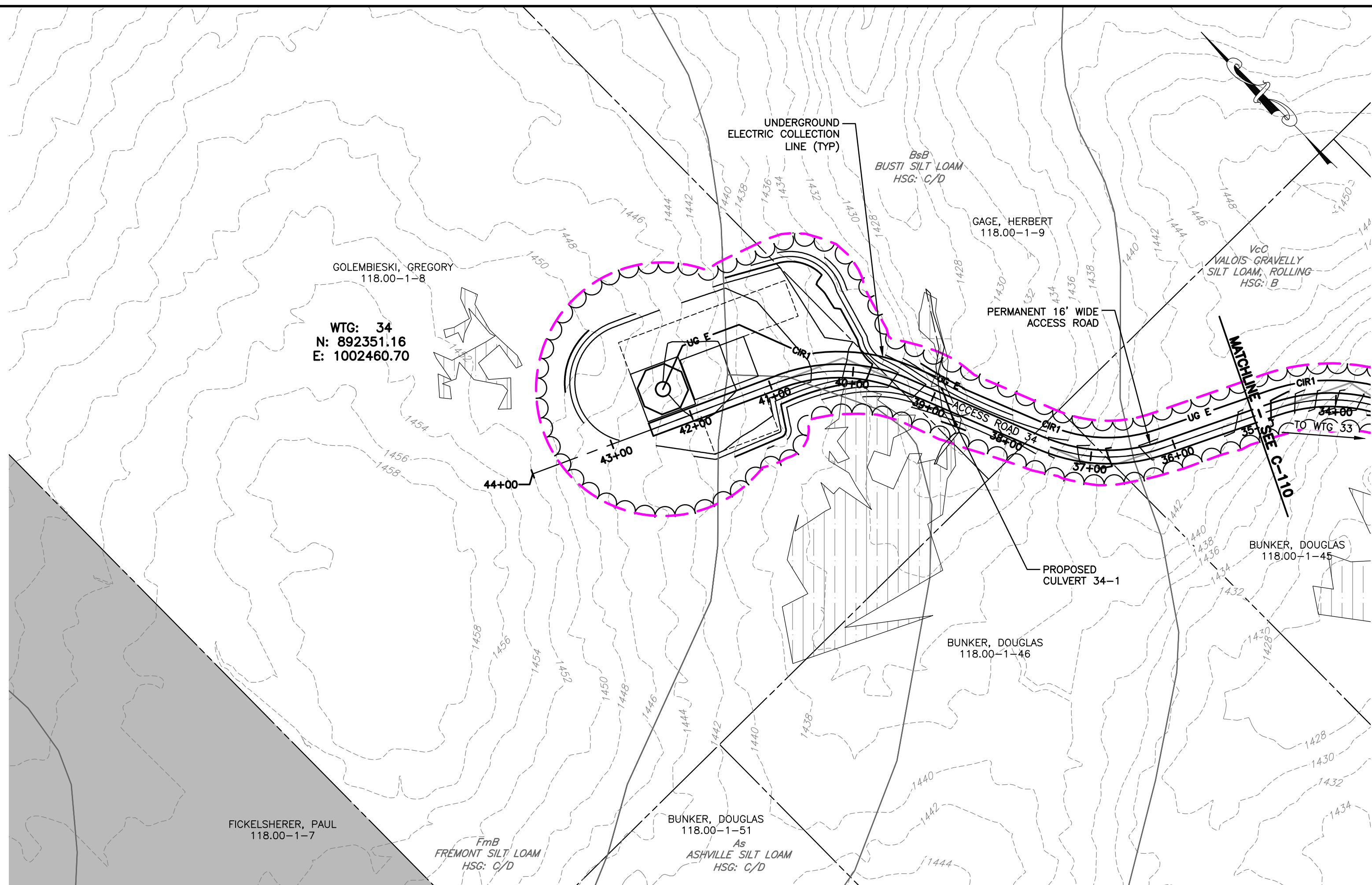
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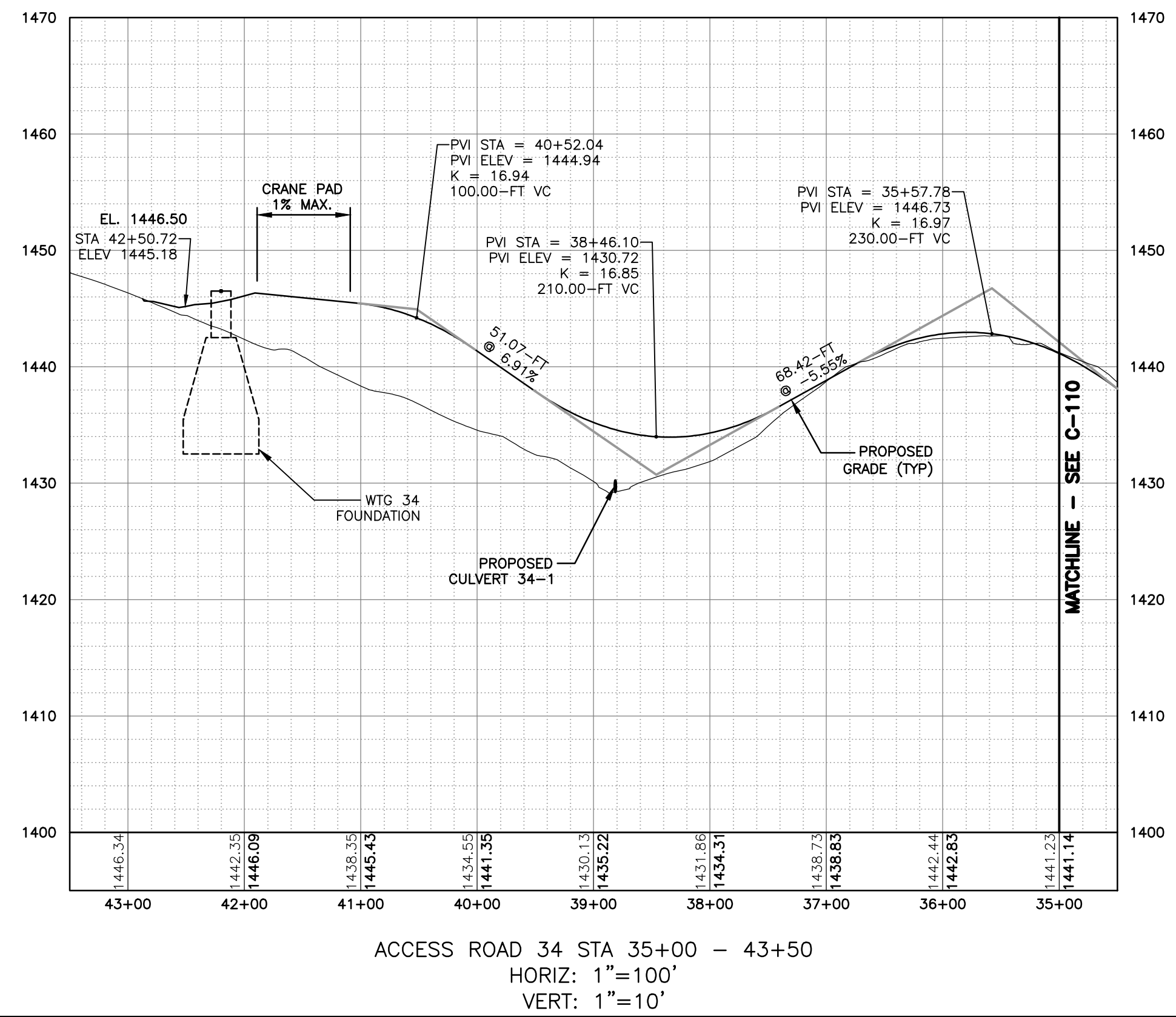
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PROJECT MANAGER	P. MCCARTHY
DRAWN BY	VT, TK
SCALE	AS SHOWN
ISSUE DATE	OCT. 2016

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS	
TITLE OF DRAWING WTG 33 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-110	
SHEET 17 OF 81	

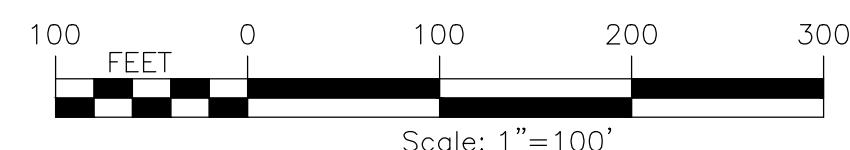
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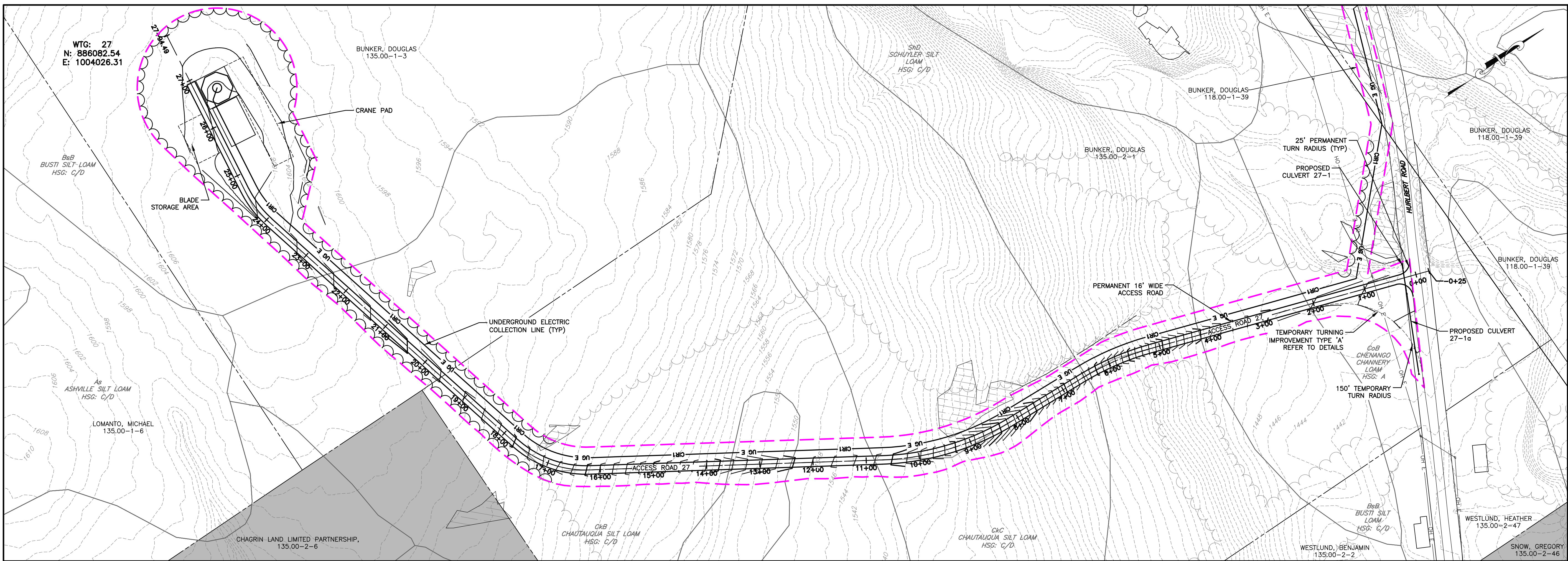
PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'



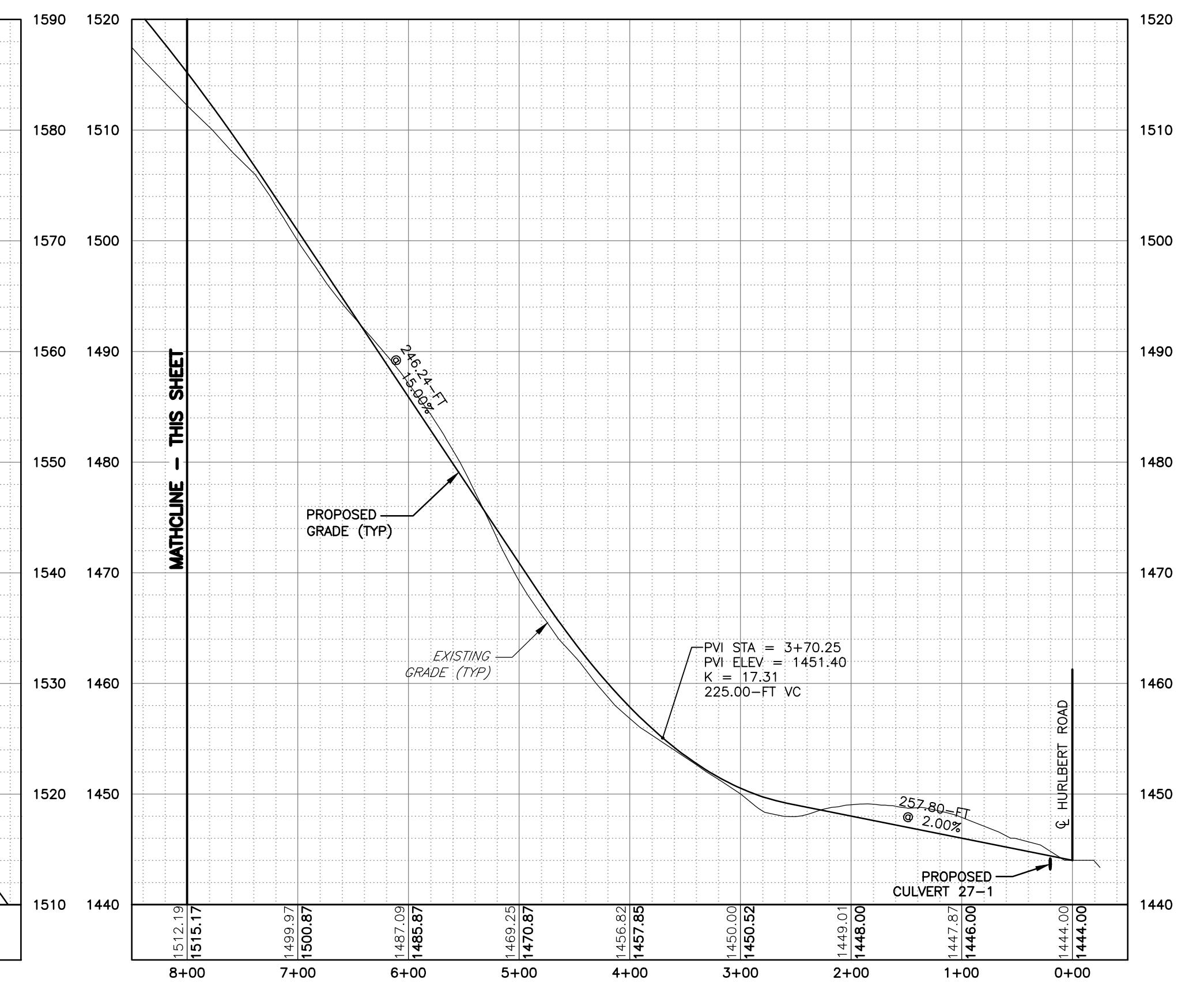
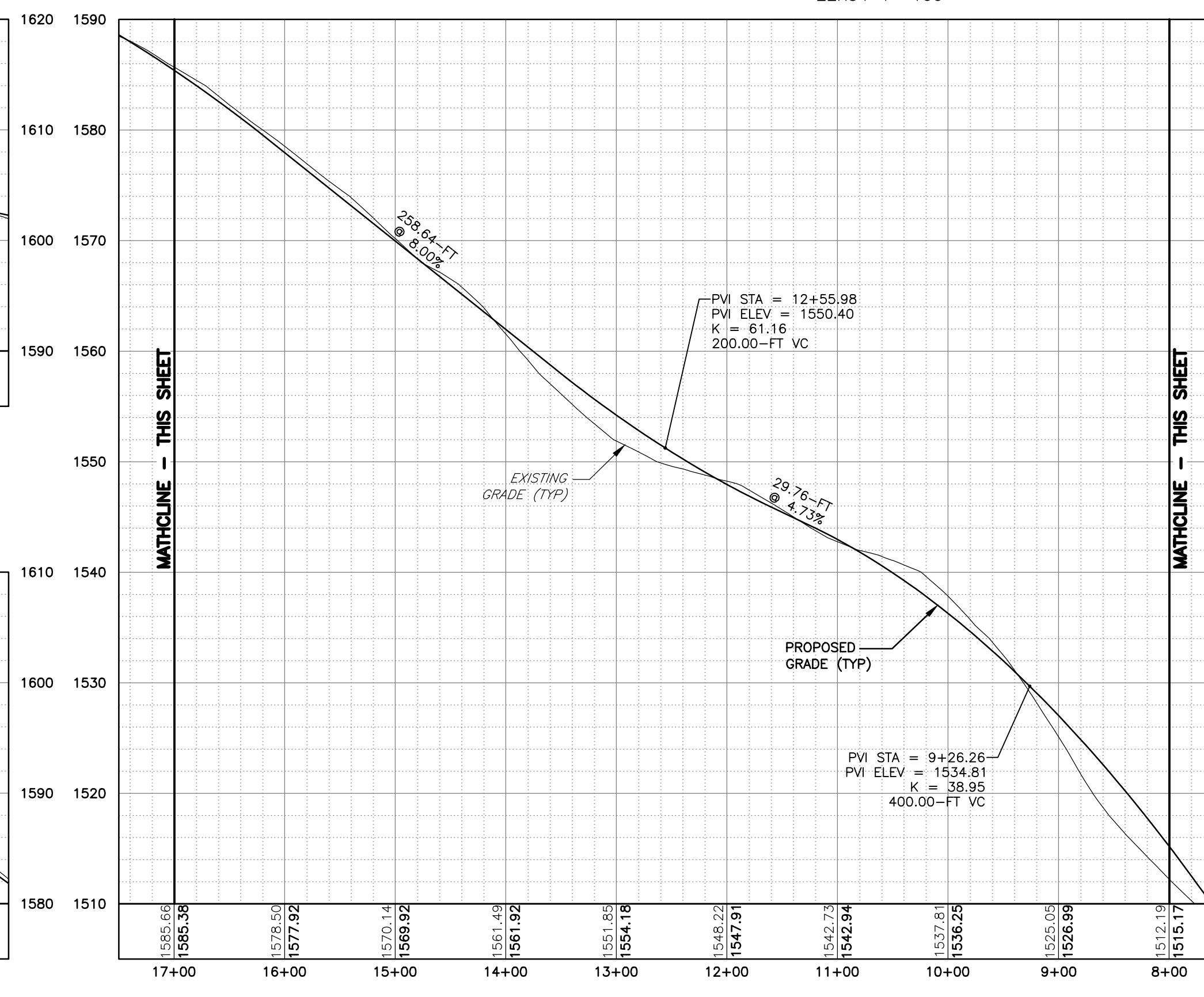
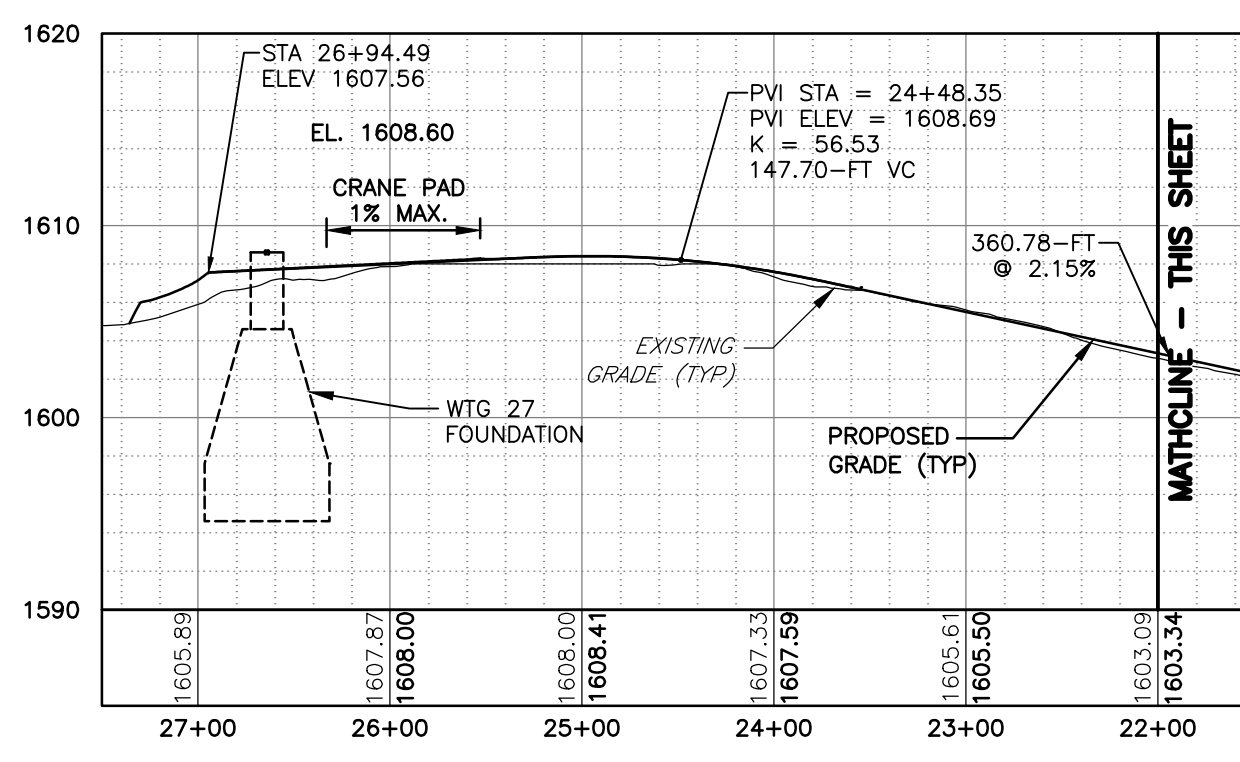
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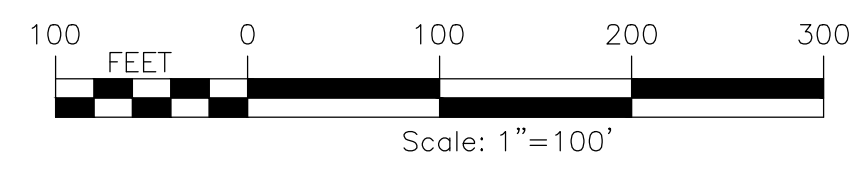
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS	TITLE OF DRAWING WTG 34 ACCESS RD PLAN & PROFILE
DRAWING NO. C-111	SHEET 18 OF 81
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN ISSUE DATE OCT. 2016	COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., D.P.C. New York State Education Law Section 1605.4 requires that the design of any structure, or any part thereof, be prepared by a duly licensed professional engineer or architect. The design of any structure, or any part thereof, shall be prepared by a duly licensed professional engineer or architect, and a specific description of the profession.
7 6 5 4 3 2 1 REV	DESCRIPTION DATE BY



PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 27 STA 27+50 - 0+00
HORIZ: 1"=100'
VERT: 1"=10'



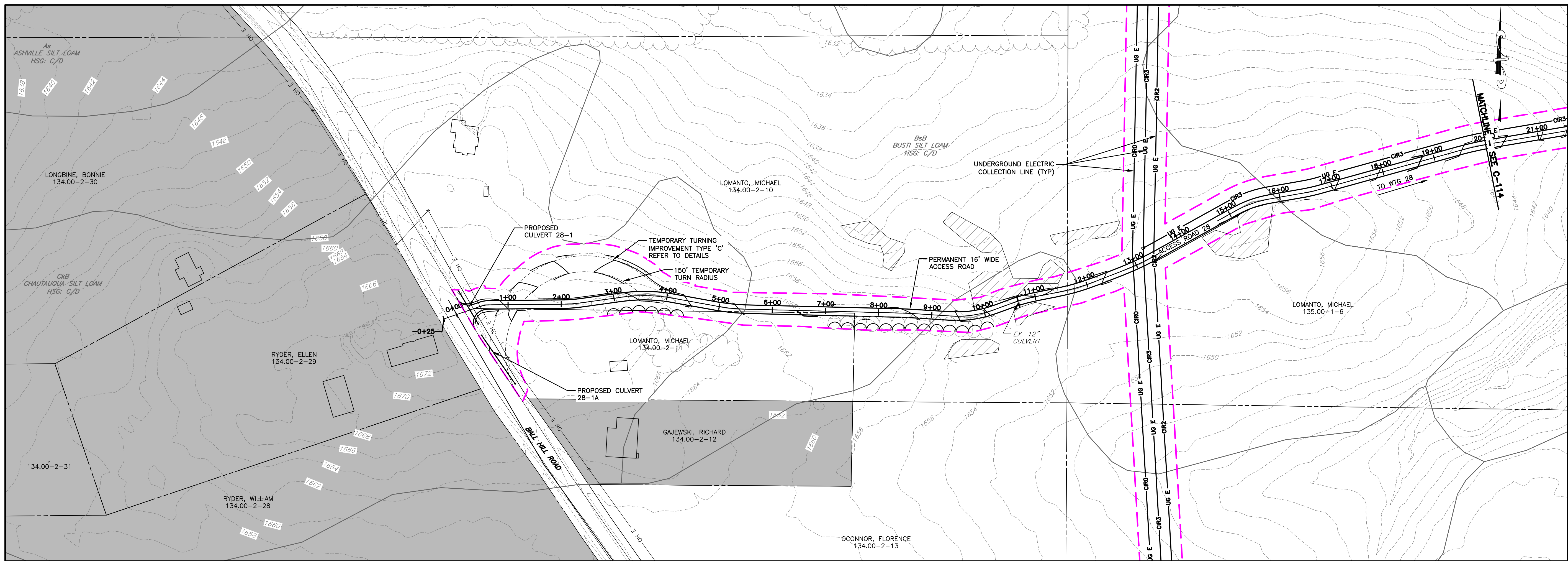
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USER: Steven Mellott

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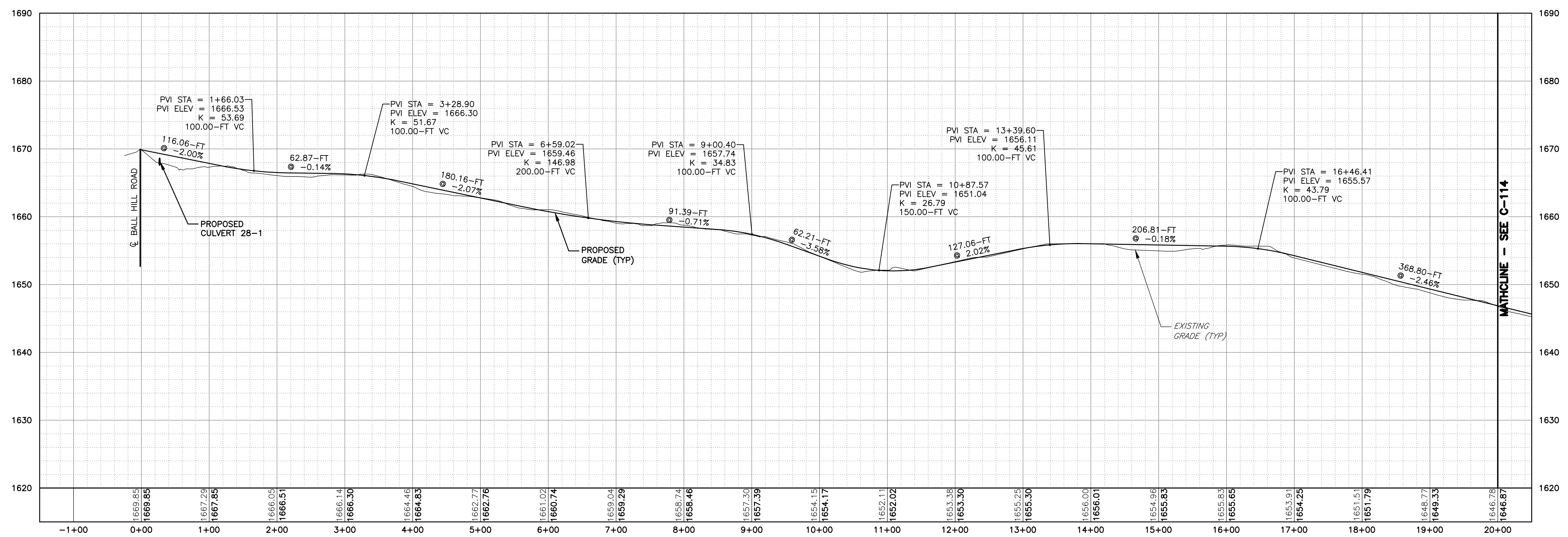
FA PROJECT NO.	150001
PROJECT MANAGER	P. MCCARTHY
DRAWN BY	VT, TK
SCALE	AS SHOWN
ISSUE DATE	OCT. 2016

PROJECT		BALL HILL WIND FARM
		TOWNS OF HANOVER & VILLENOVA
		CHAUTAQUA COUNTY, NY
		PRELIMINARY PLANS
TITLE OF DRAWING		WTG 27 ACCESS RD PLAN & PROFILE
DRAWING NO.		C-112
		SHEET 19 OF 81

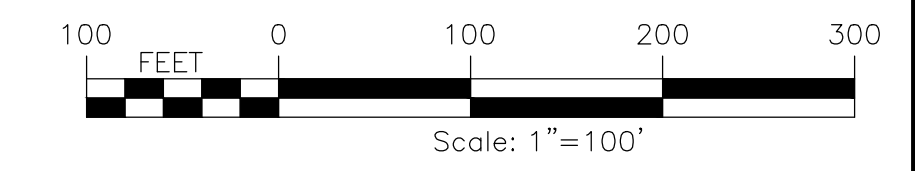
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PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



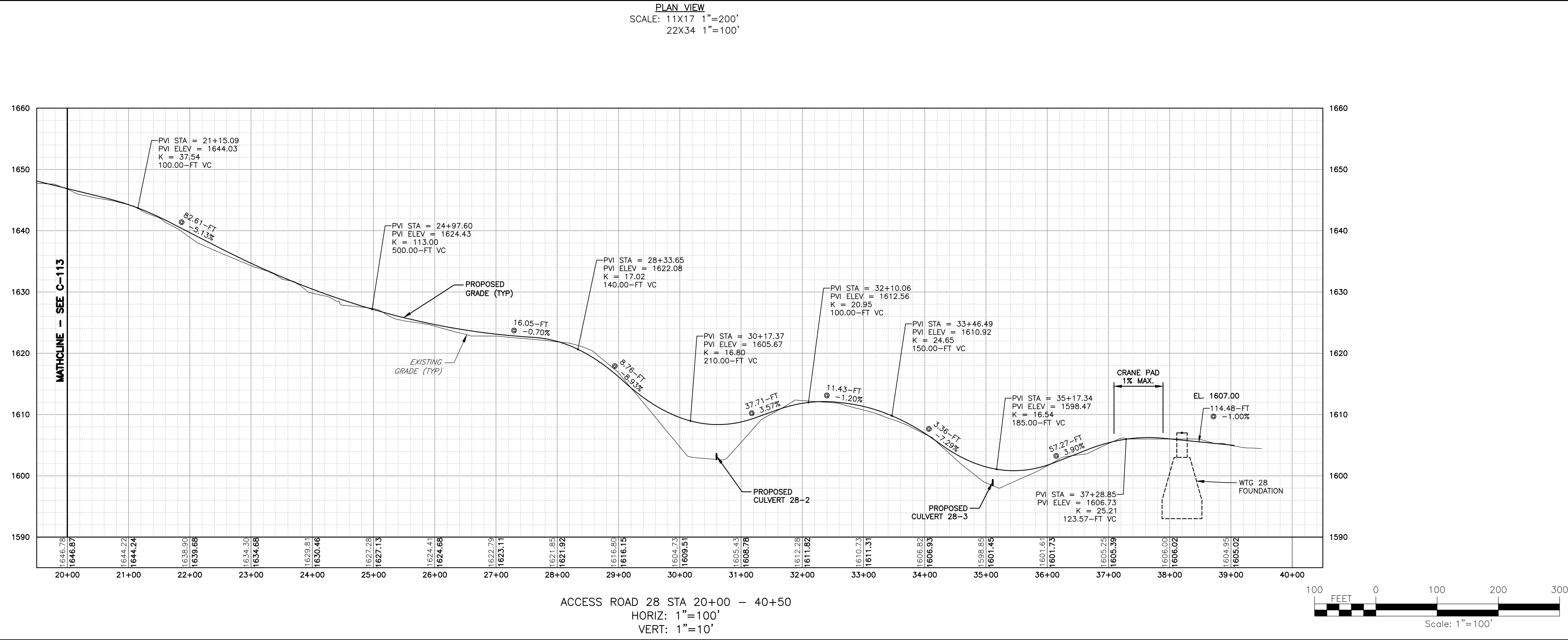
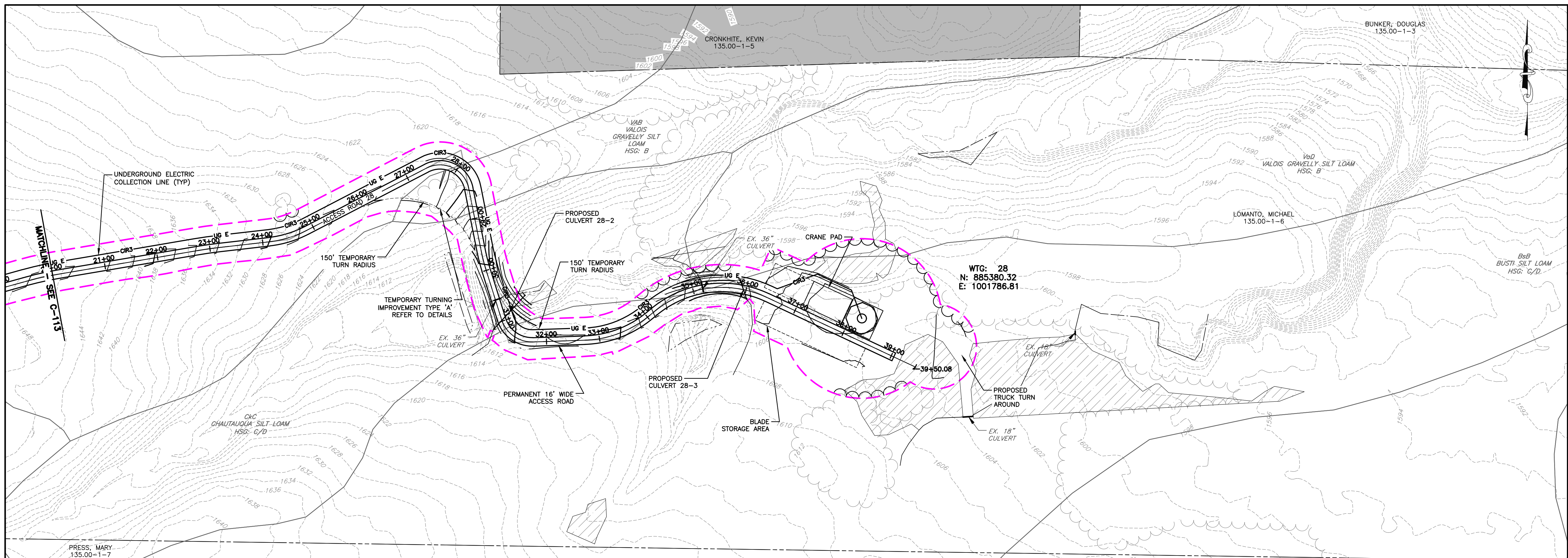
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUGUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 28 ACCESS RD PLAN & PROFILE	
DRAWING NO. <h1 style="margin: 0;">C-113</h1>		SHEET 20 OF 81	
PROJECT MANAGER P. MCCARTHY		ISSUE DATE OCT. 2016	
DRAWN BY VT, TK		SCALE AS SHOWN	
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FA PROJECT NO.
 150001
 PROJECT MANAGER
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 VT, TK
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 AS SHOWN

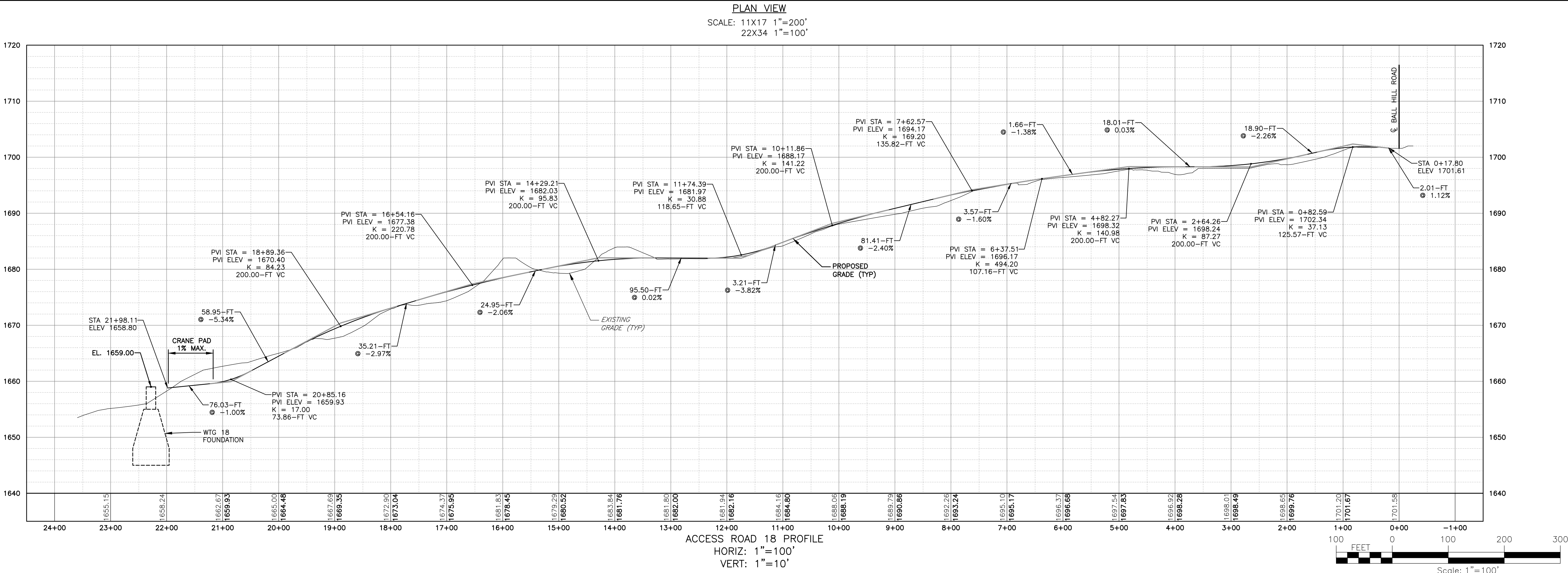
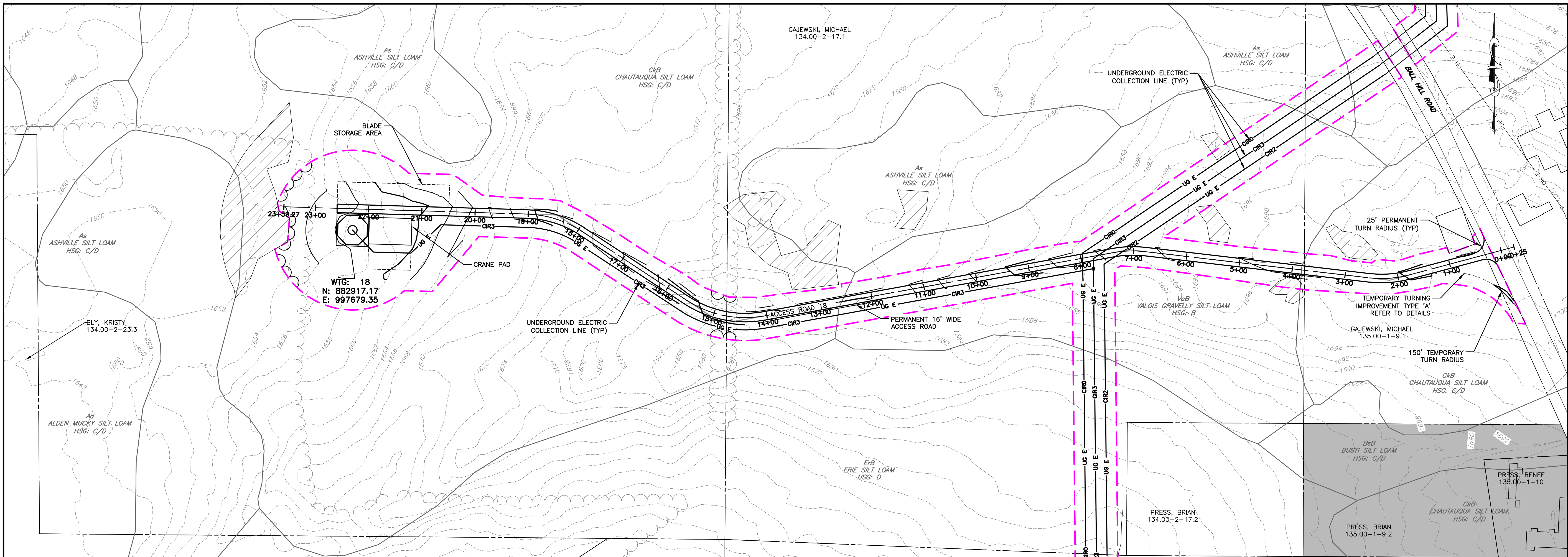
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PROJECT
 BALL HILL WIND FARM
 TOWNS OF HANOVER & VILLENOVA
 CHAUTAUQUA COUNTY, NY
 PRELIMINARY PLANS

TITLE OF DRAWING
 WTG 28 ACCESS RD PLAN & PROFILE

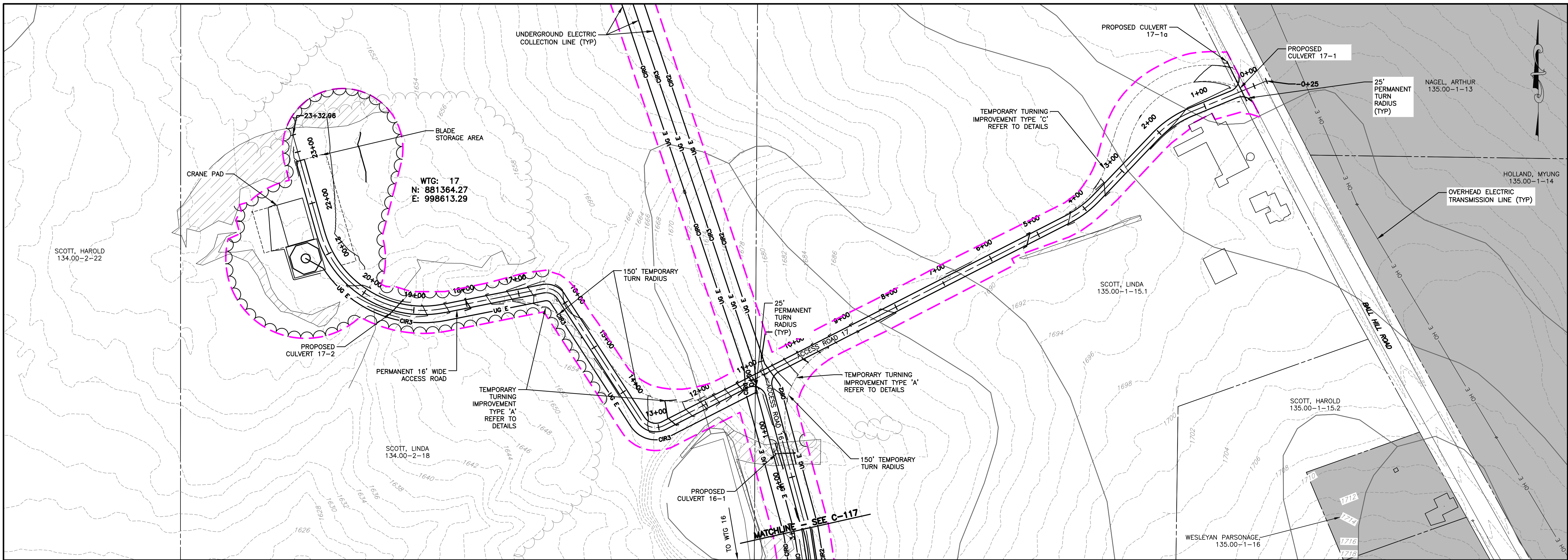
DRAWING NO.
C-114

SHEET 21 OF 81

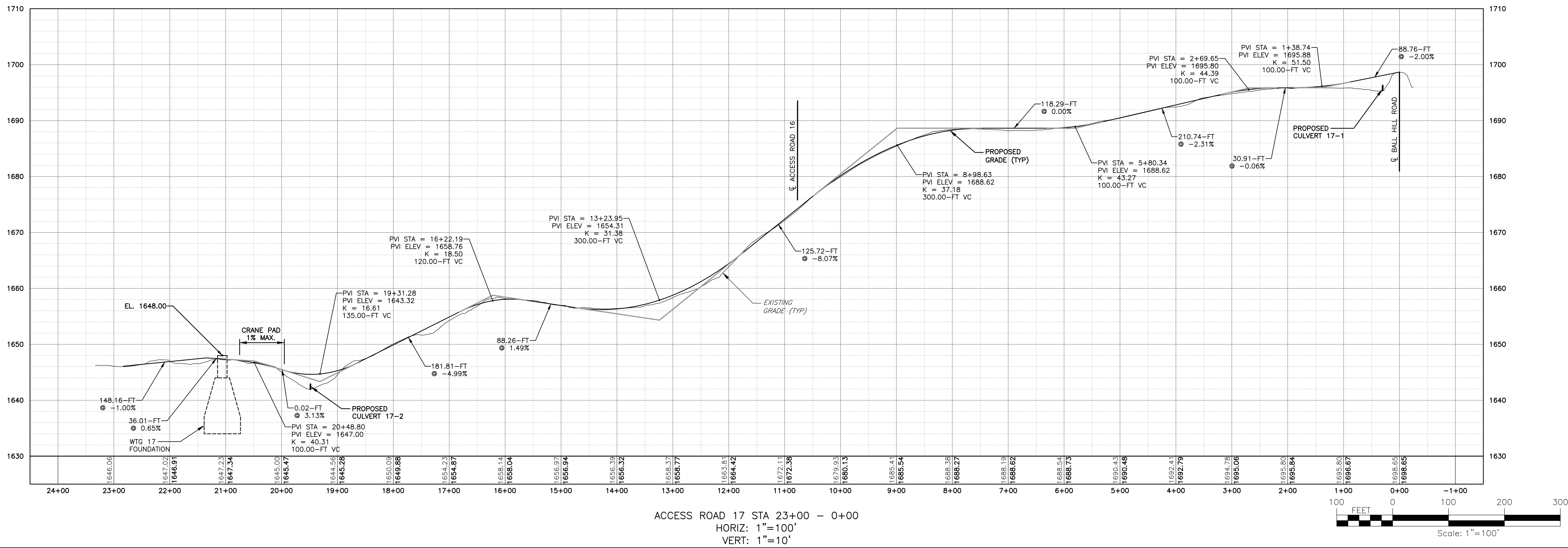


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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTC 18 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-115		SHEET 22 OF 81	
PROJECT NO. 150001		ISSUE DATE OCT. 2016	
PROJECT MANAGER P. MCCARTHY		SCALE AS SHOWN	
DRAWN BY VT, TK		AS SHOWN	
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PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



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FA PROJECT NO.	150001
PROJECT MANAGER	P. MCCARTHY
DRAWN BY	VT, TK
SCALE	AS SHOWN
ISSUE DATE	OCT. 2016

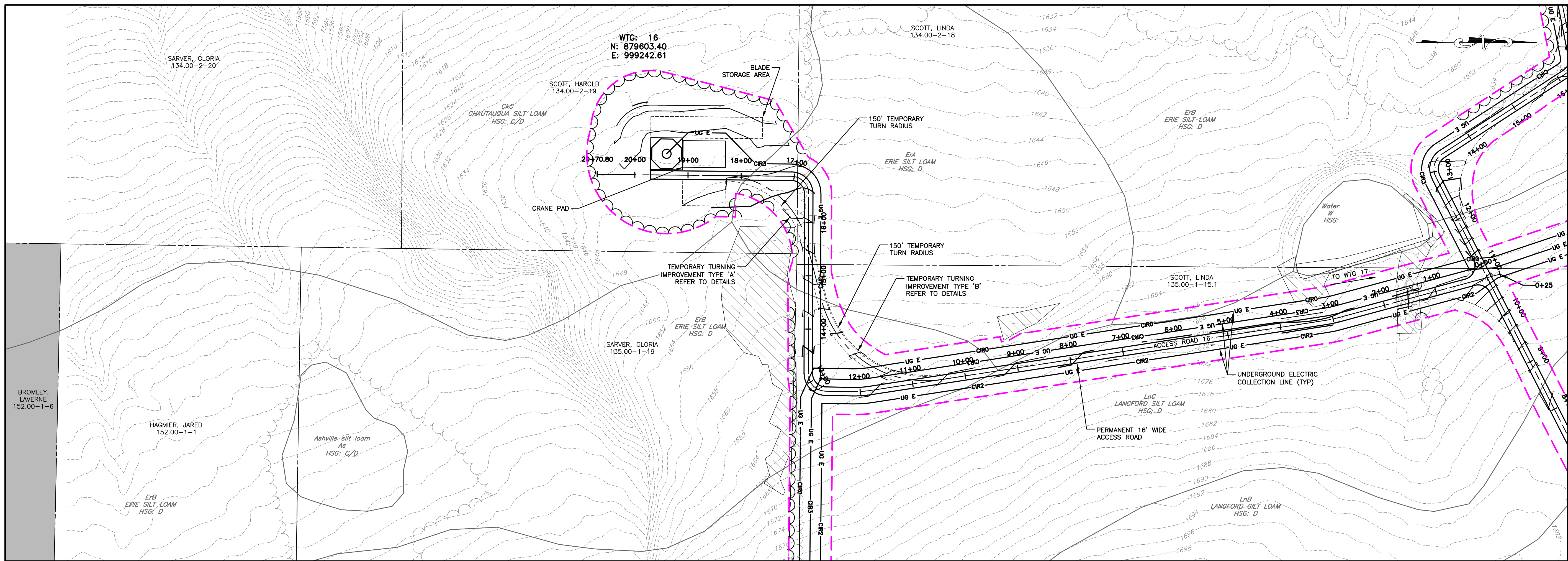
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS	TITLE OF DRAWING WTG 17 ACCESS RD PLAN & PROFILE
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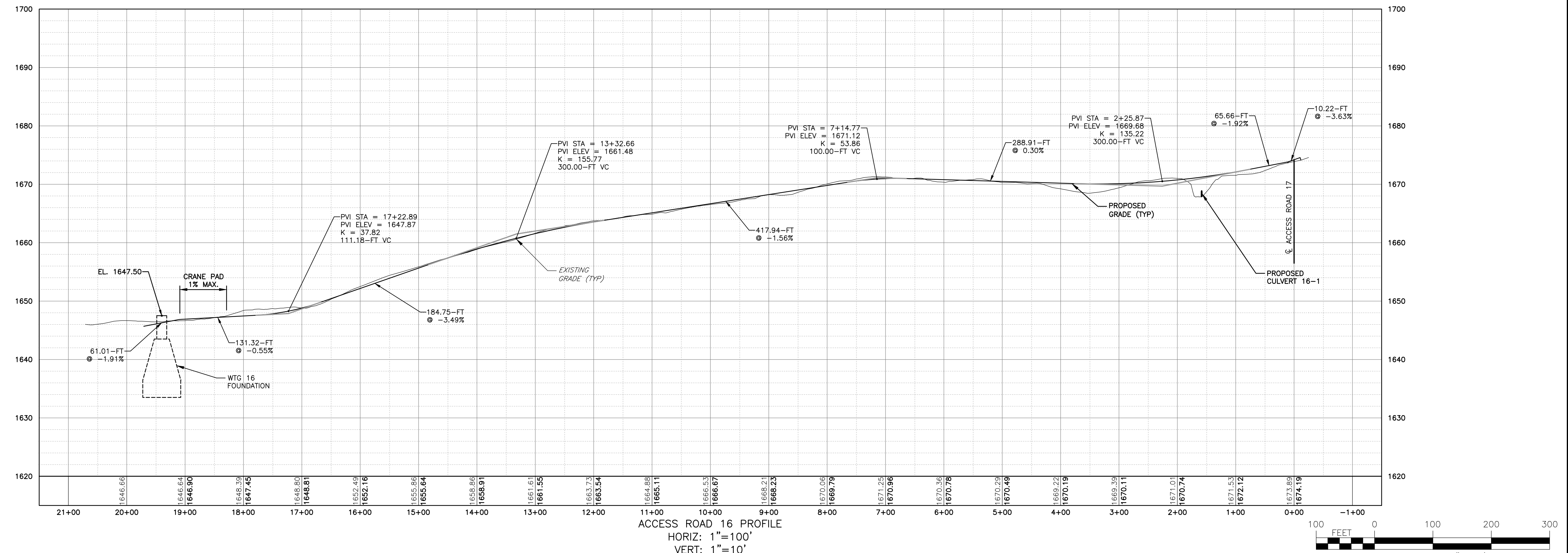
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SHEET	23 OF 81

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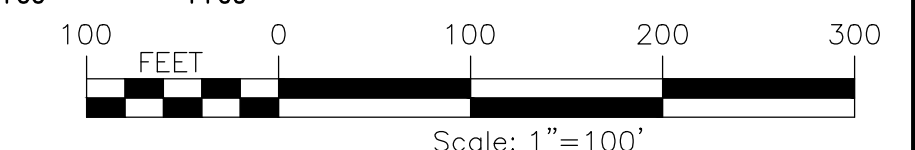
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 USER: Steven Mellott



PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'



ACCESS ROAD 16 PROFILE
 HORIZ: 1"=100'
 VERT: 1"=10'



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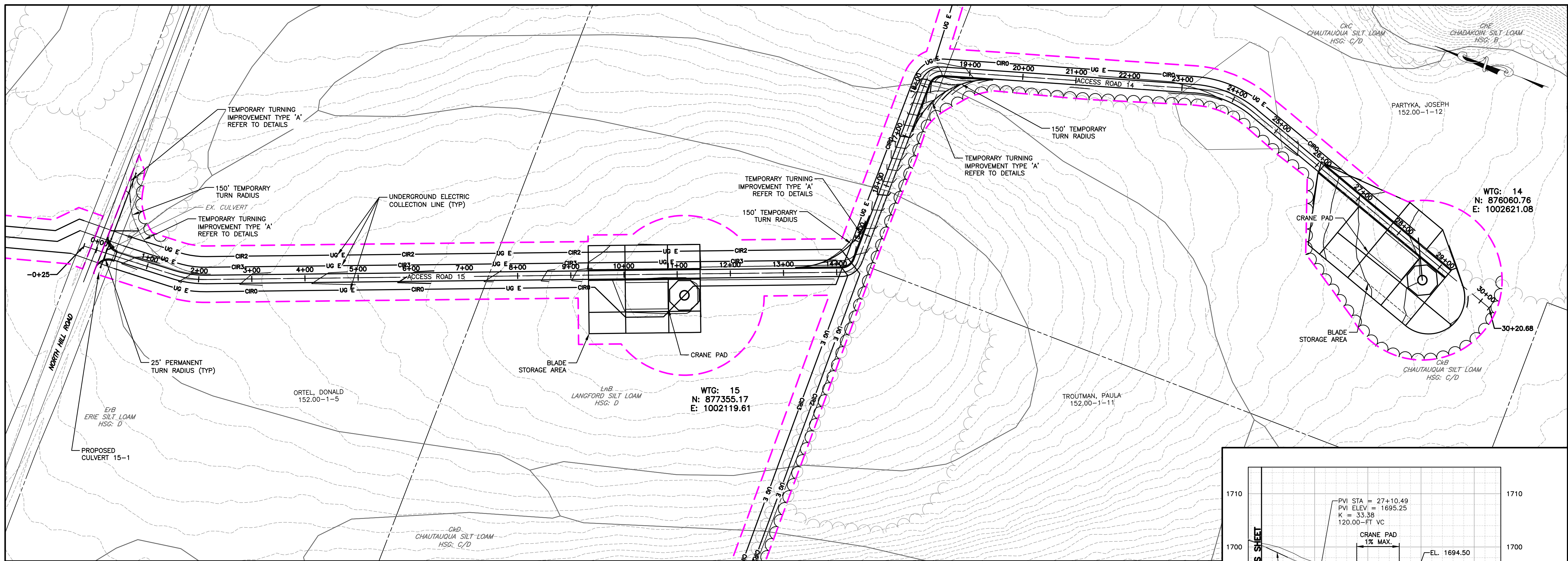
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PROJECT MANAGER	P. MCCARTHY	DRAWN BY	VT, TK
		SCALE	AS SHOWN

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 16 ACCESS RD PLAN & PROFILE
DRAWING NO. C-117		SHEET 24 OF 81

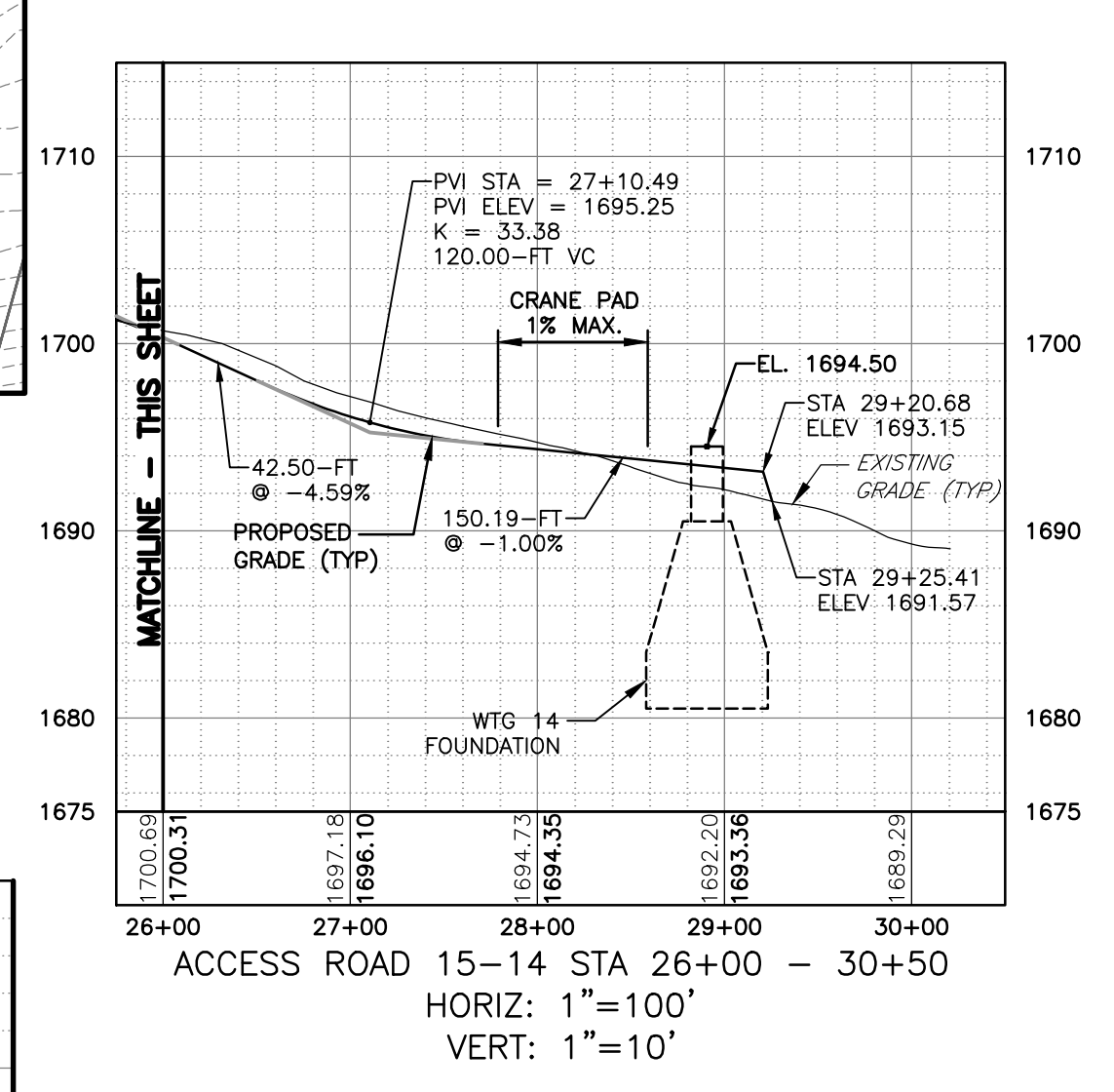
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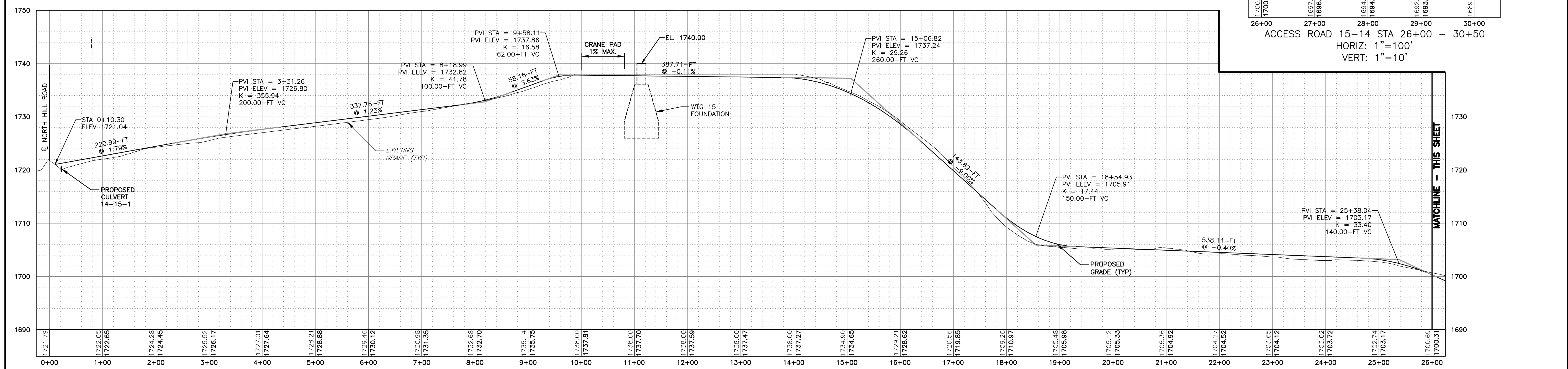
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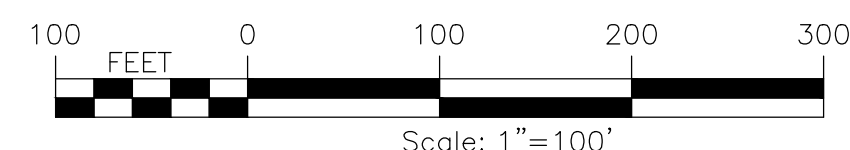
PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'



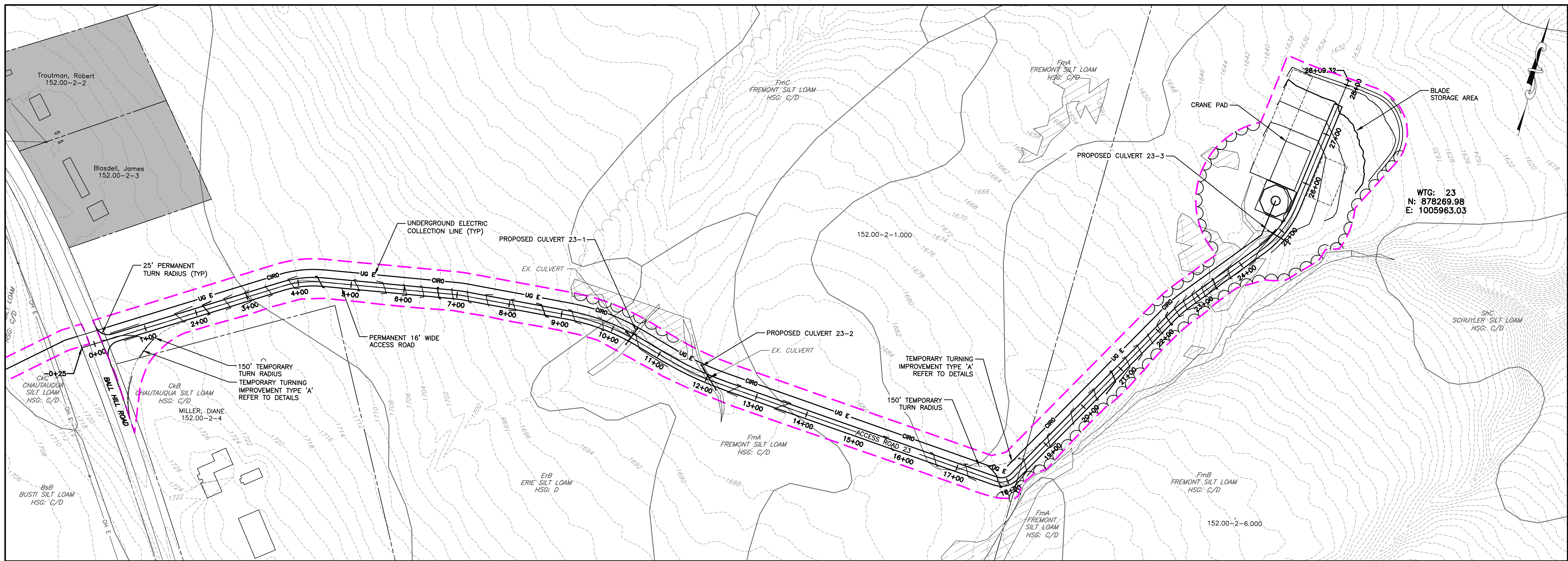
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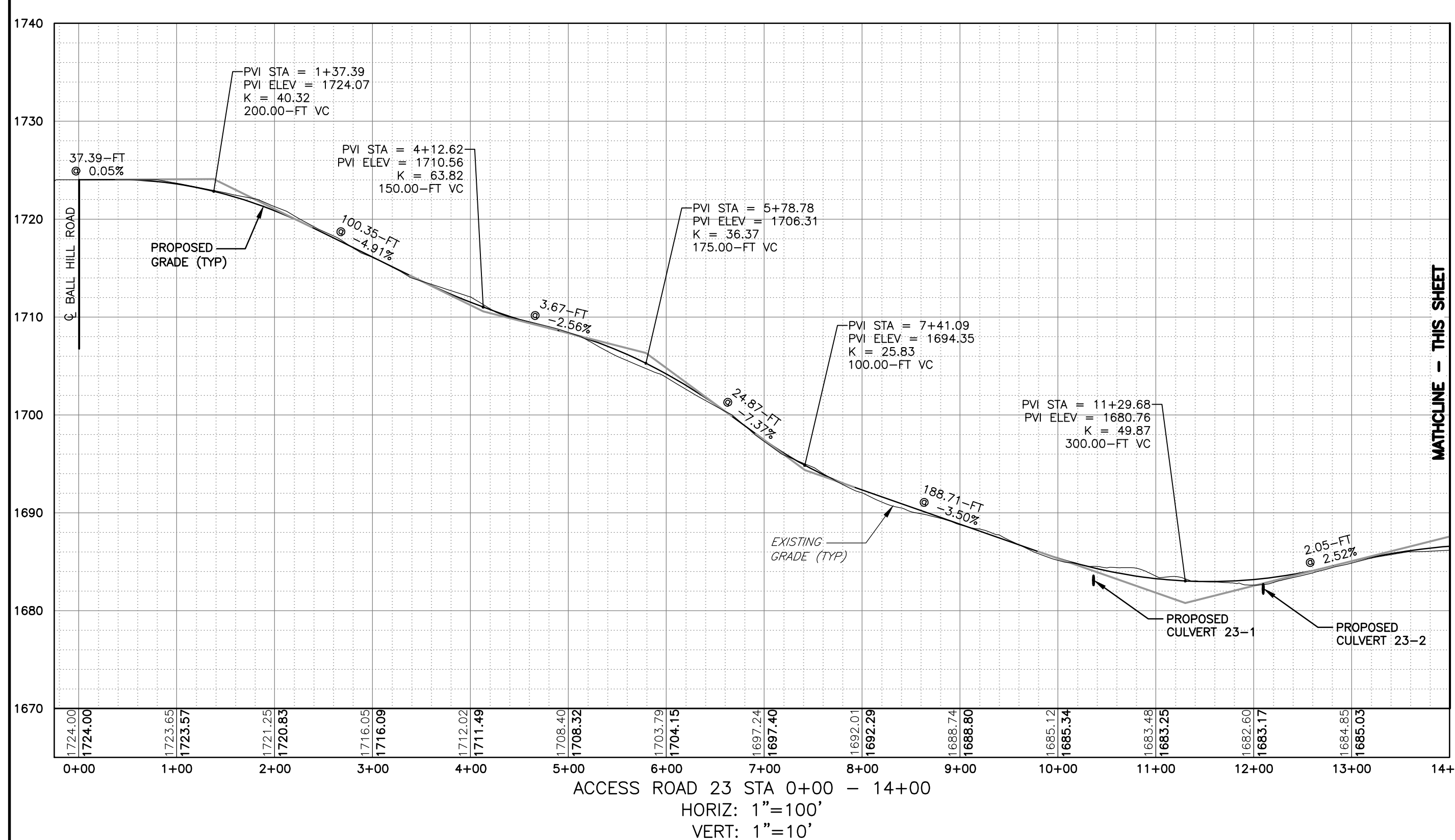
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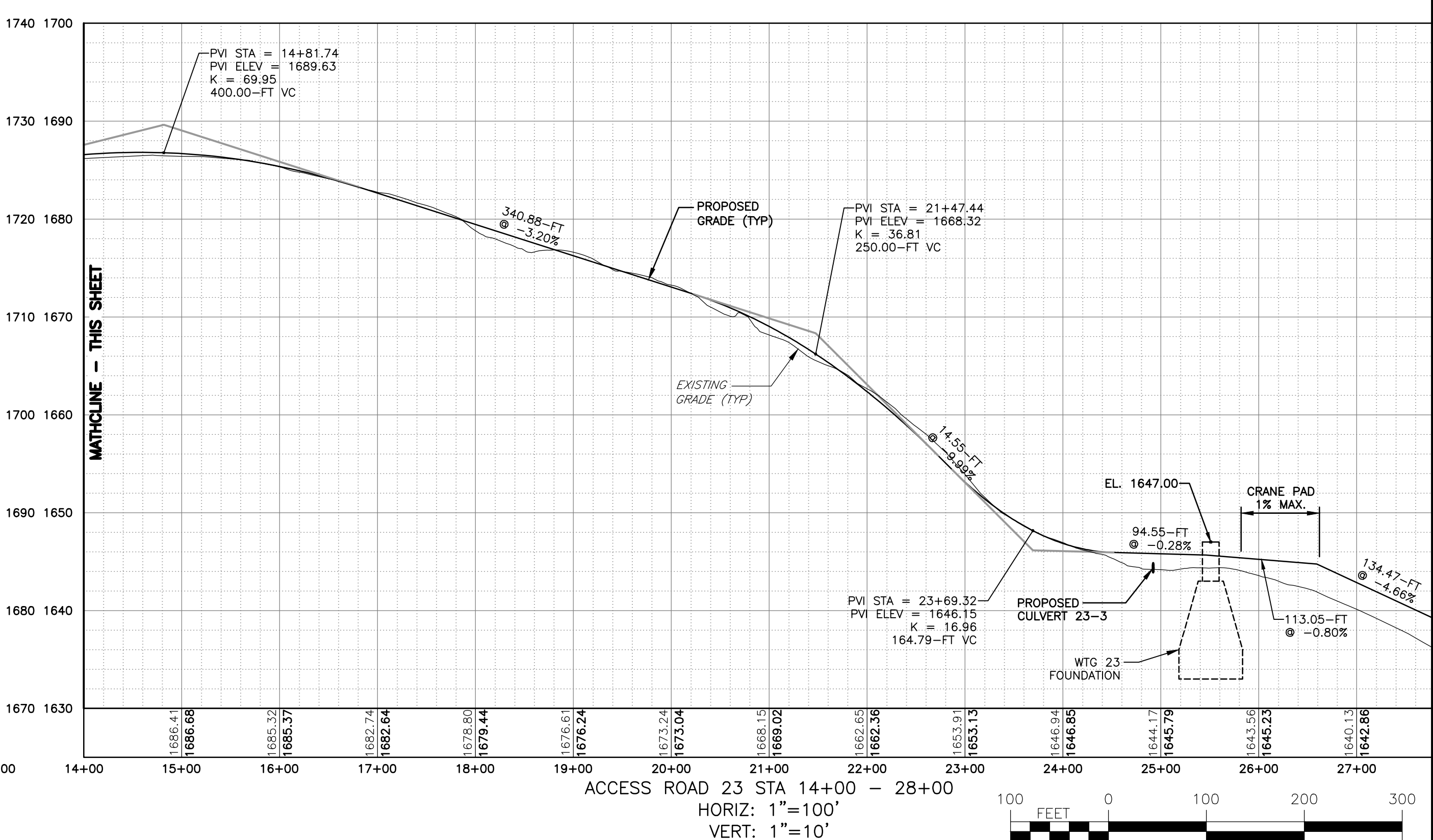
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DRAWING NO.		C-118	
TITLE OF DRAWING		WTG 15 ACCESS RD PLAN & PROFILE	
FA PROJECT NO.	150001	PROJECT MANAGER	P. MCCARTHY
DRAWN BY	VT, TK	ISSUE DATE	OCT. 2016
SCALE	AS SHOWN	REV	1
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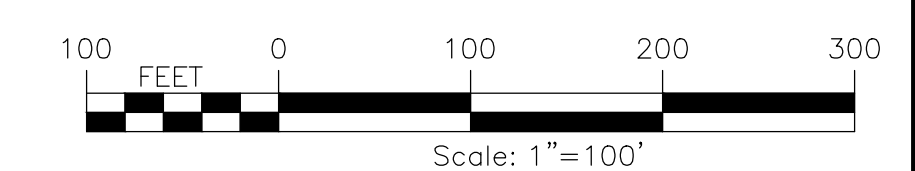
PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 23 STA 0+00 - 14+00
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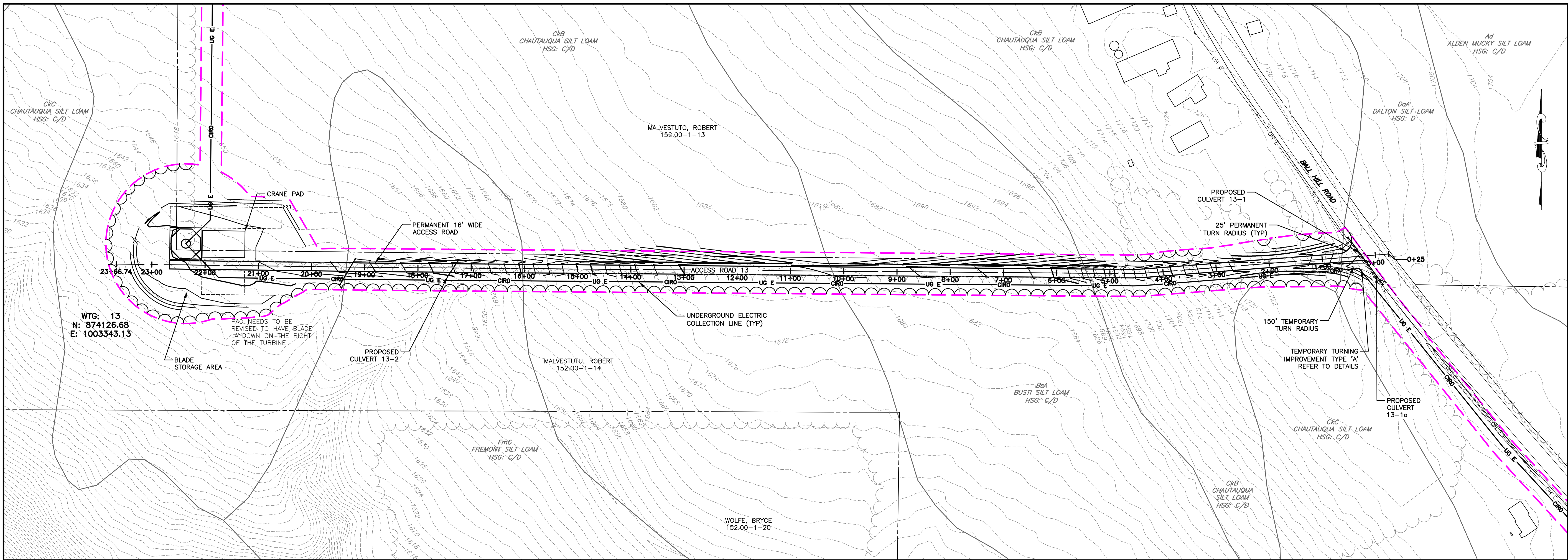


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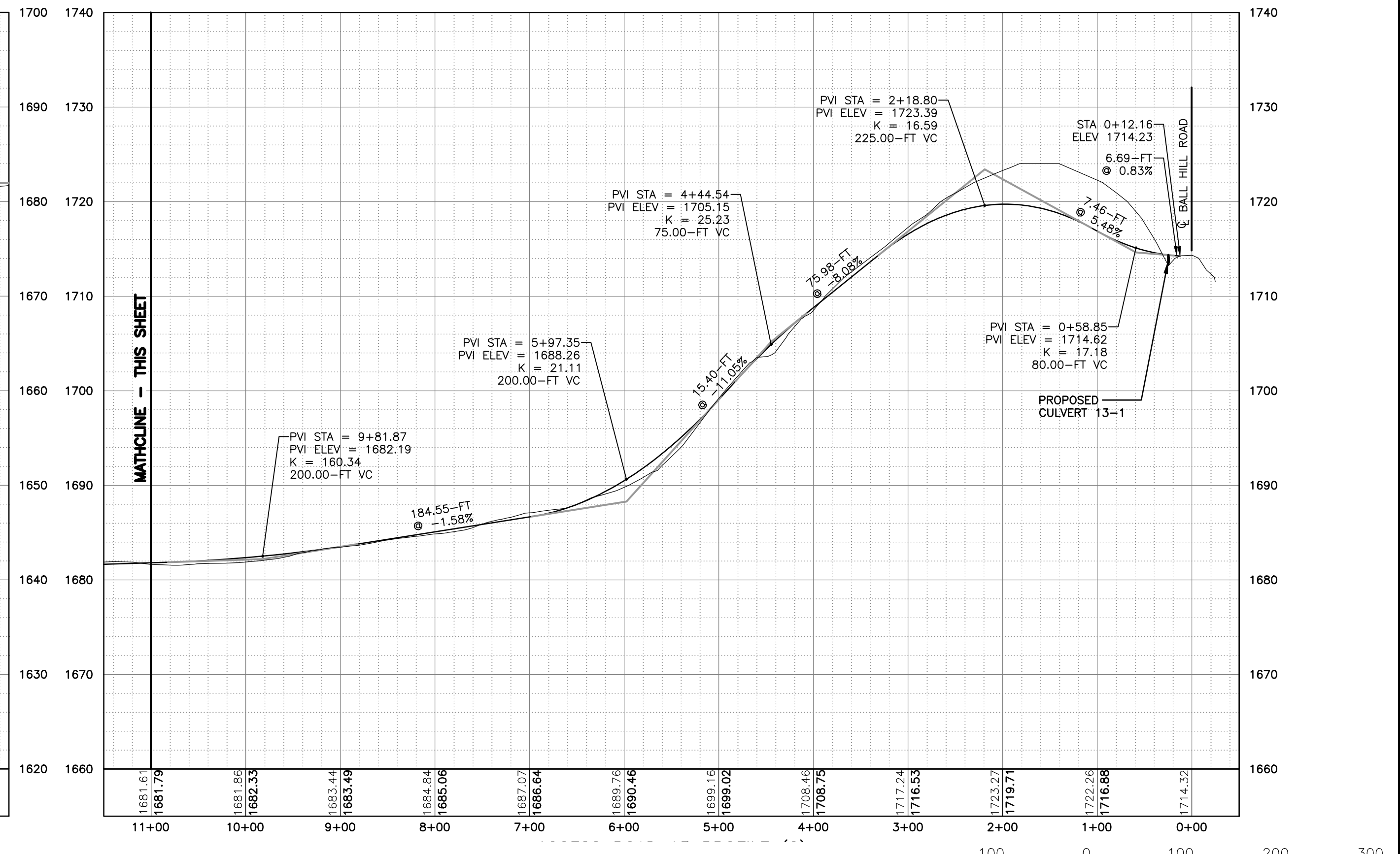
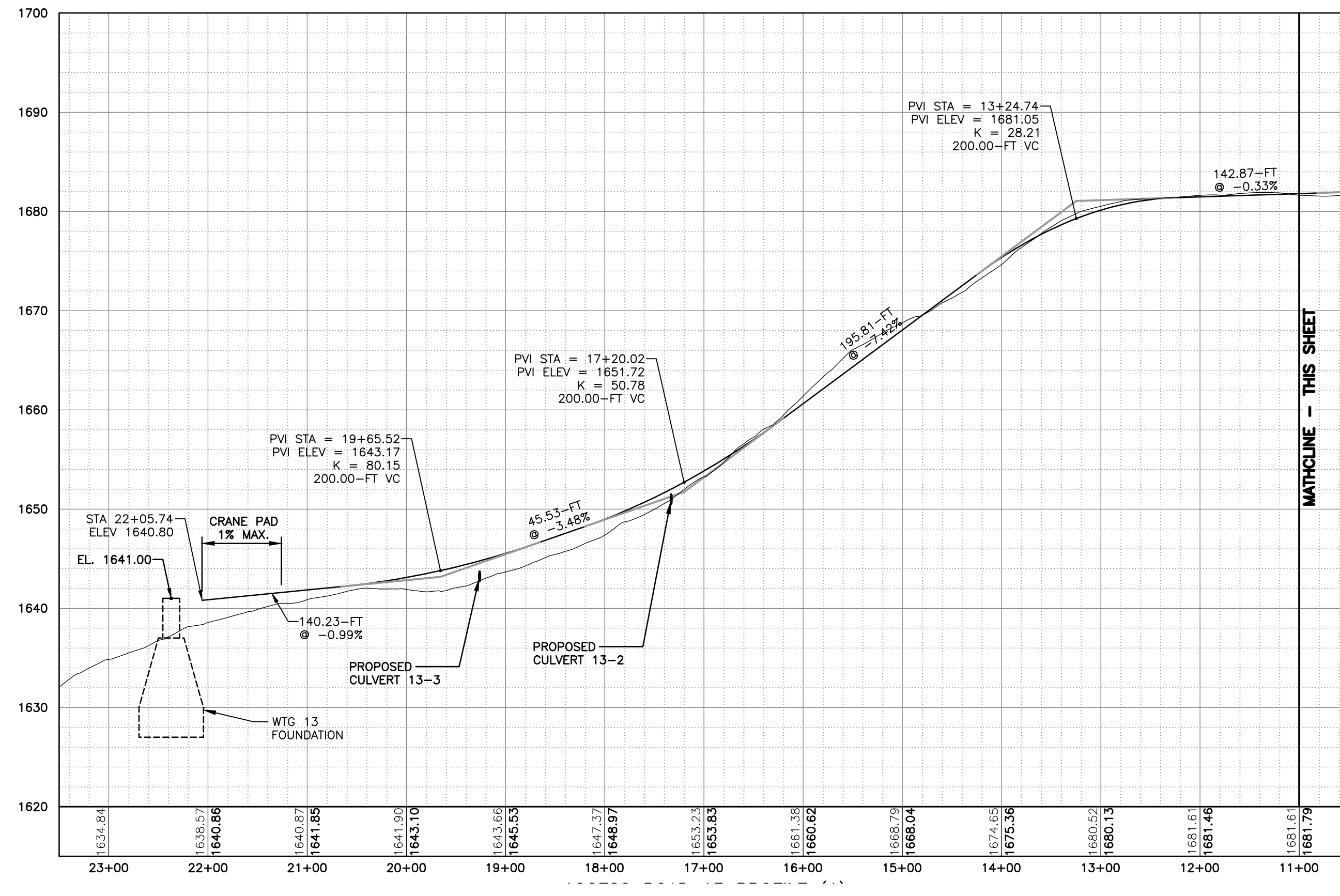
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS	TITLE OF DRAWING WTG 23 ACCESS RD PLAN & PROFILE
DRAWING NO. C-119	SHEET 26 OF 81
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN	ISSUE DATE OCT. 2016
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DESCRIPTION	DATE BY

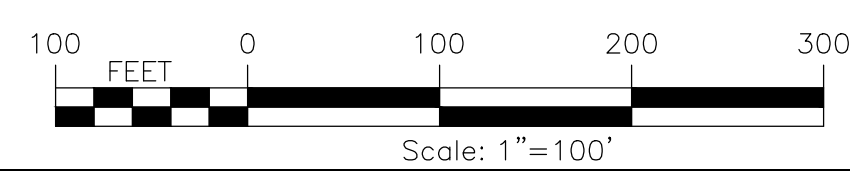


PLAN VIEW

SCALE: 11x17 1"=200'
22x34 1"=100'



ACCESS ROAD 13 STA 23+00 - 0+00
HORIZ: 1"=100'
VERT: 1"=10'



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USER: Steven Mellat

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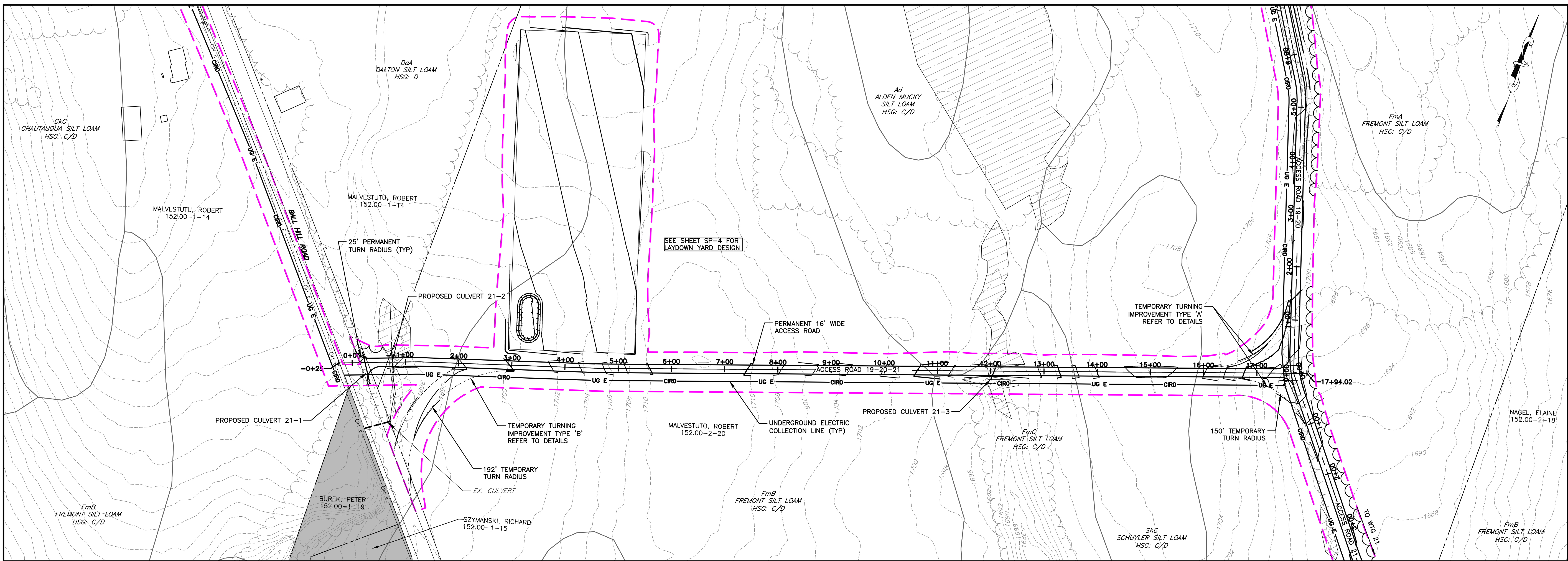
FA PROJECT NO.
150001
PROJECT MANAGER
P. MCCARTHY
DRAWN BY
VT, TK
SCALE
AS SHOWN
ISSUE DATE
OCT. 2016

PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAUQUA COUNTY, NY
PRELIMINARY PLANS

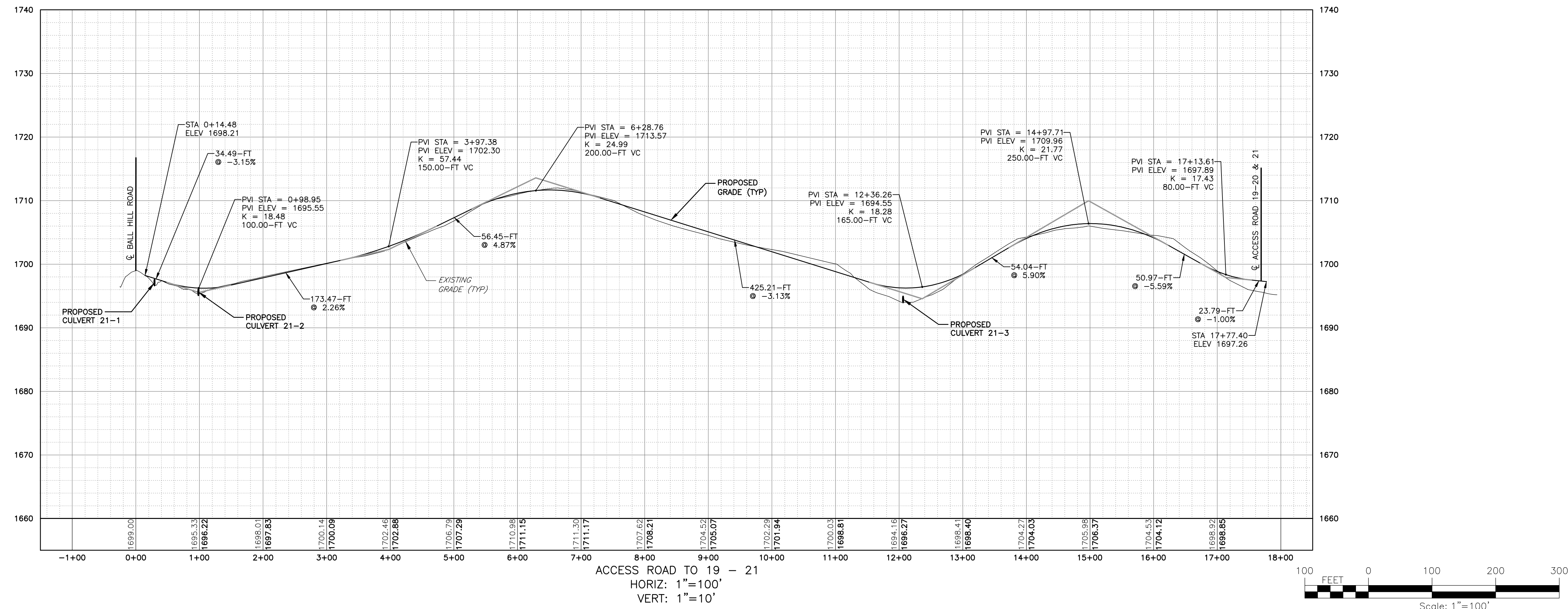
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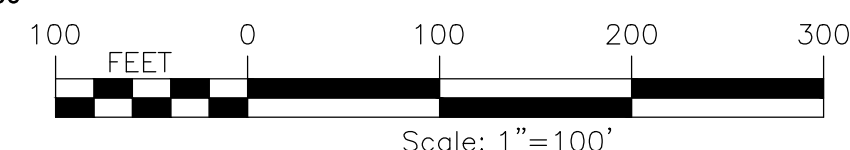
SHEET 27 OF 81



PLAN VIEW
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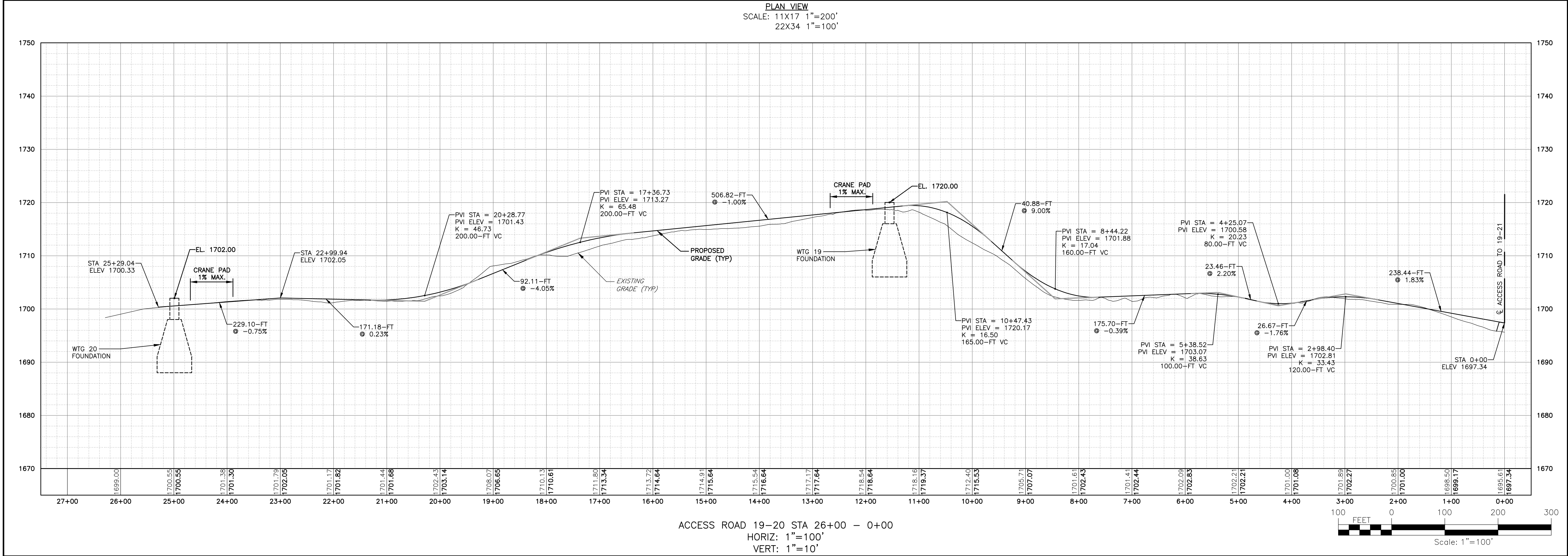
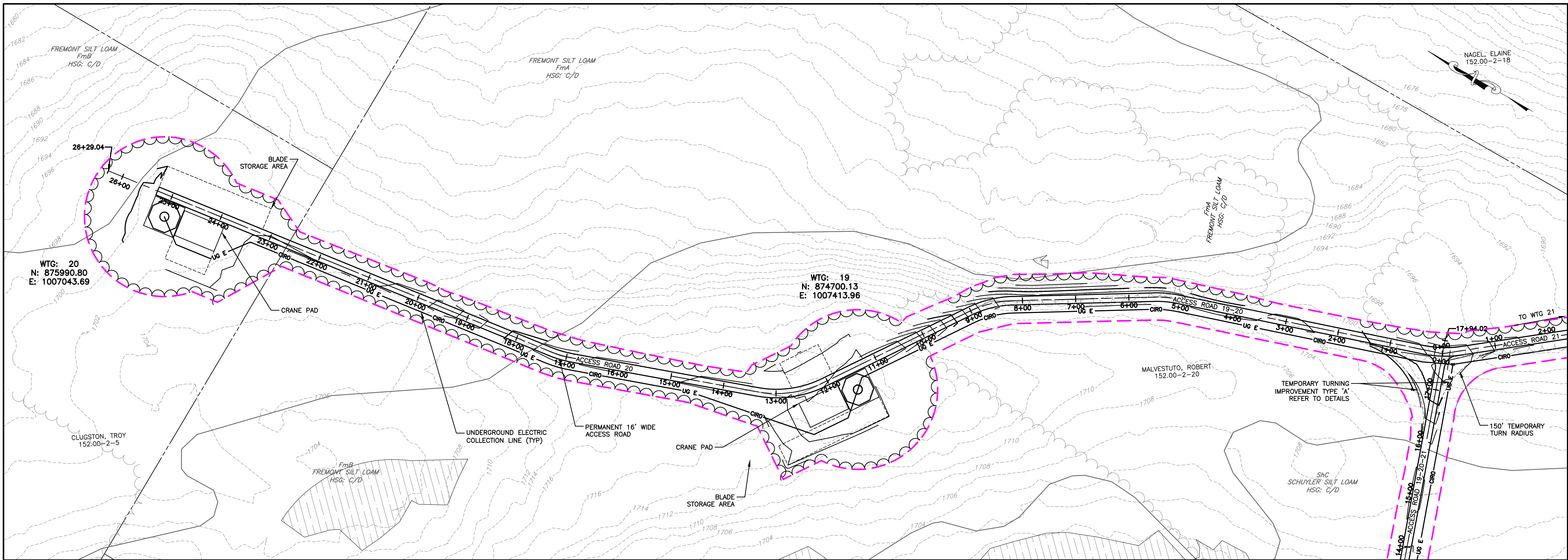


ACCESS ROAD TO 19 - 21
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VERT: 1"=10'



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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 19 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-121		SHEET 28 OF 81	
PROJECT NO. 150001	PROJECT MANAGER P. MCCARTHY	ISSUE DATE OCT. 2016	DATE
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DATE/TIME: 10/14/2016 12:01:52 PM
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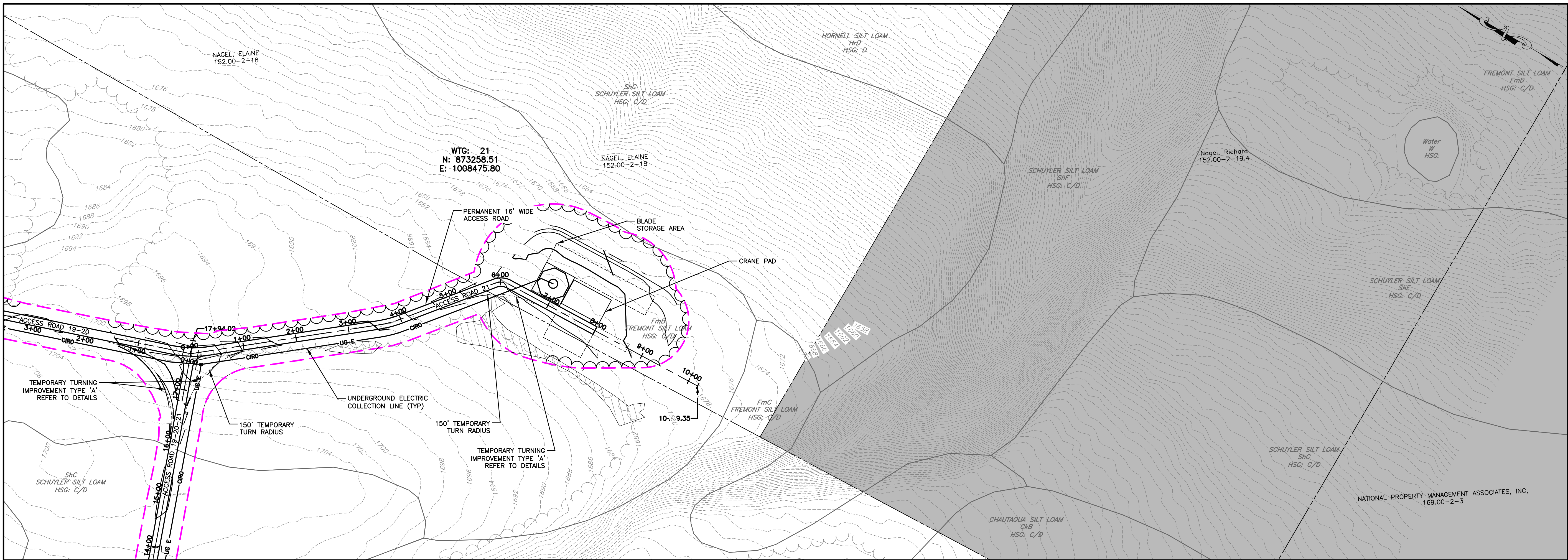
FA PROJECT NO.
150001
PROJECT MANAGER
P. MCCARTHY
DRAWN BY
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SCALE
AS SHOWN
ISSUE DATE
OCT. 2016

PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAUQUA COUNTY, NY
PRELIMINARY PLANS

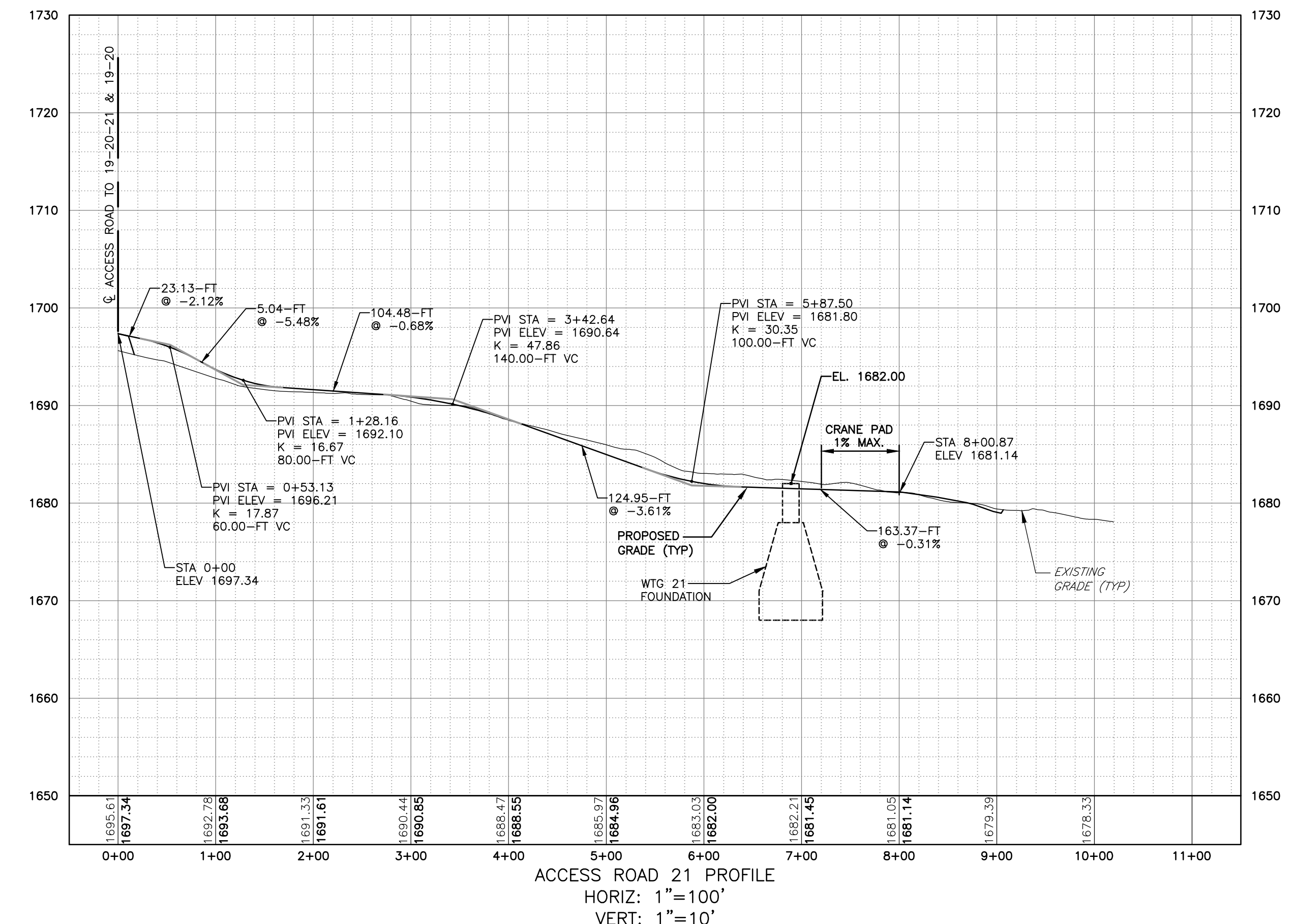
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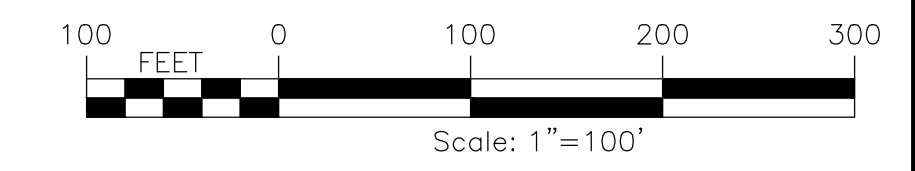
SHEET 29 OF 81



PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 21 PROFILE
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VERT: 1"=10'



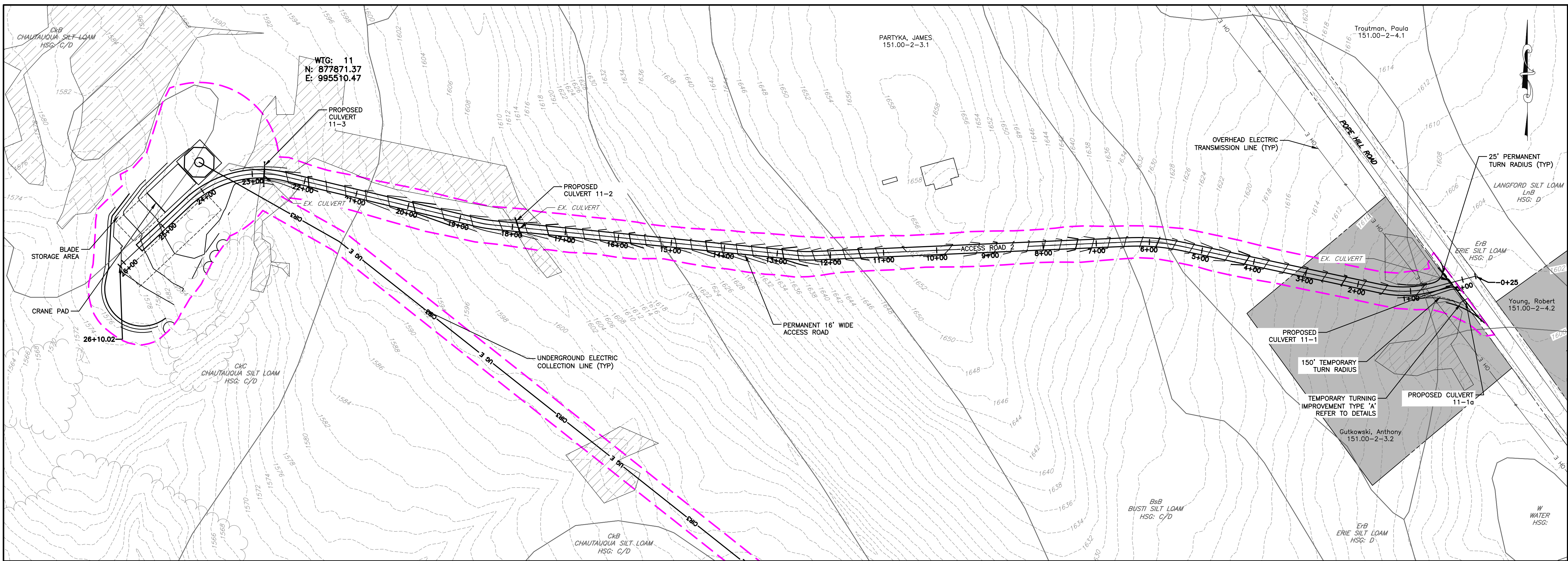
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USER: Steven Mellat

PROJECT		DRAWING NO.	
BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		C-123	
TITLE OF DRAWING		SHEET 30 OF 81	
WTC 21 ACCESS RD PLAN & PROFILE			
FA PROJECT NO.	150001	ISSUE DATE	OCT. 2016
PROJECT MANAGER	P. MCCARTHY	SCALE	AS SHOWN
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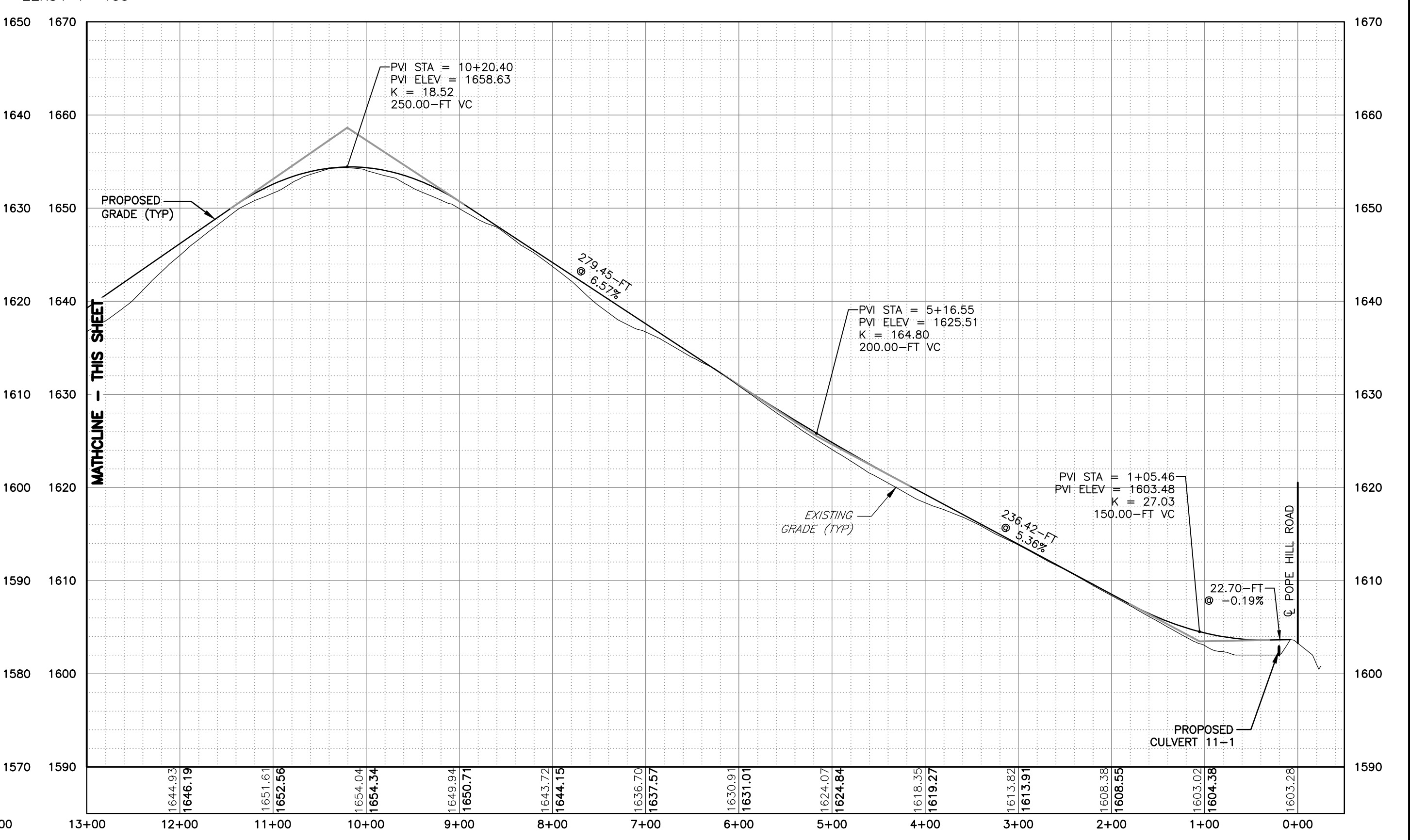
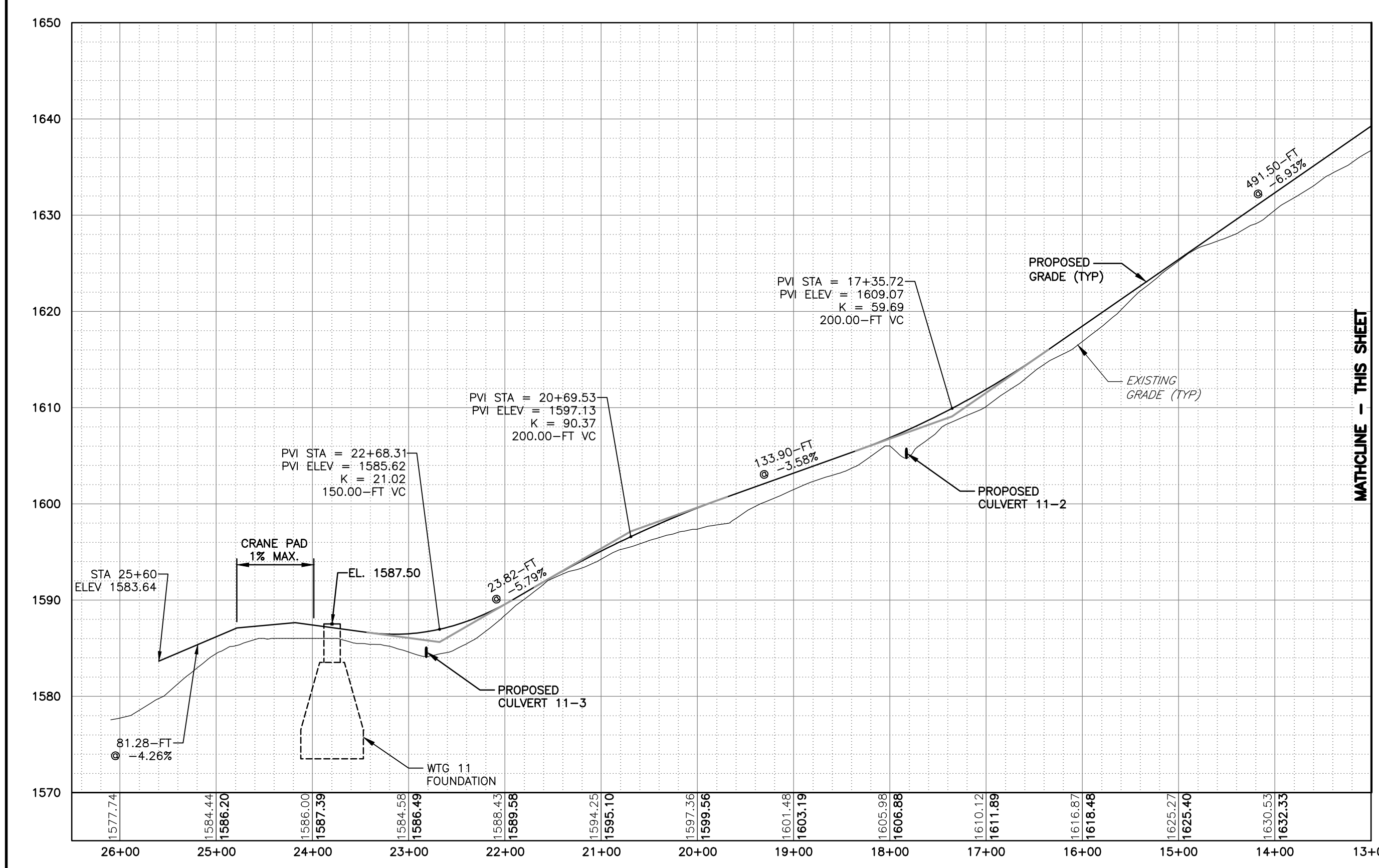
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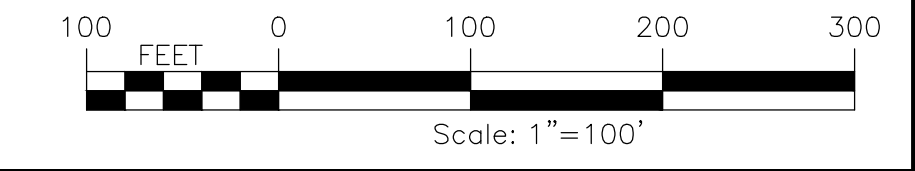
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PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



ACCESS ROAD 11 STA 26+00 - 0+00
HORIZ: 1"=100'
VERT: 1"=10'



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DRAWN BY	VT, TK	DATE	
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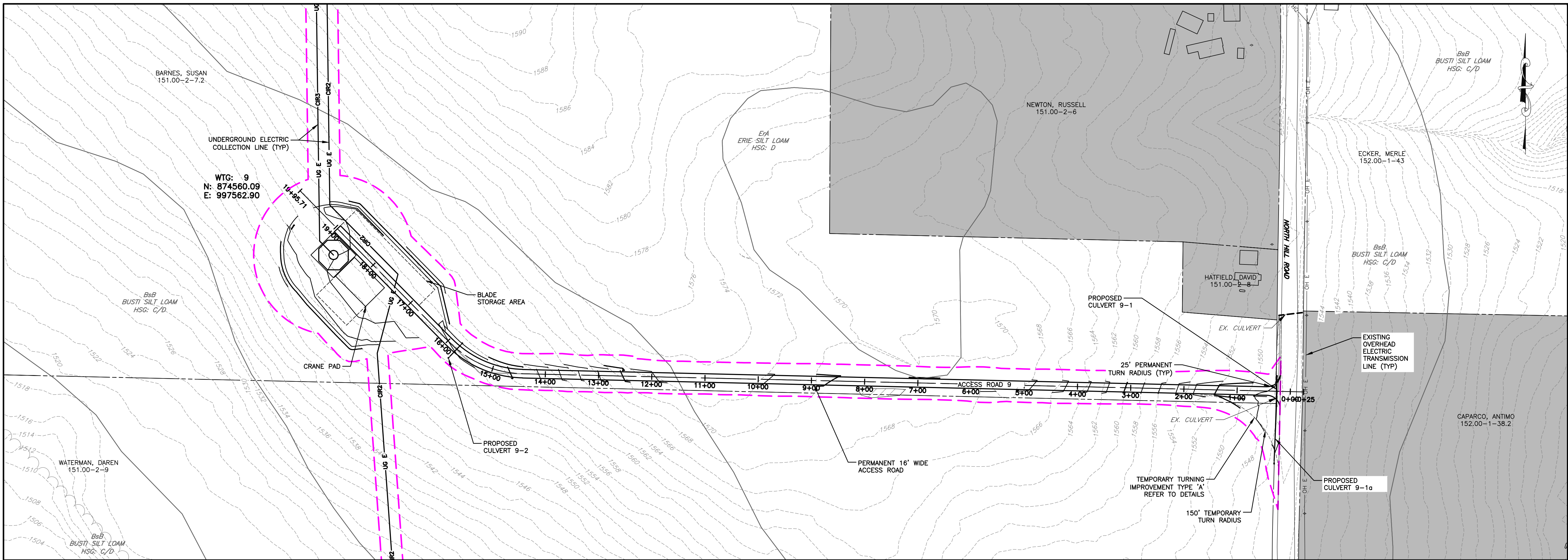
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New York State Education Law Section 1405.3 requires that the design engineer or land surveyor, in any form including the plans, drawings, specifications, and reports, certify that the design engineer or land surveyor is duly licensed and is duly qualified to perform the services required by the contract, and a specific description of the nature of the services.

PROJECT
BALL HILL WIND FARM
TOWNS OF HANOVER & VILLENOVA
CHAUTAUQUA COUNTY, NY
PRELIMINARY PLANS

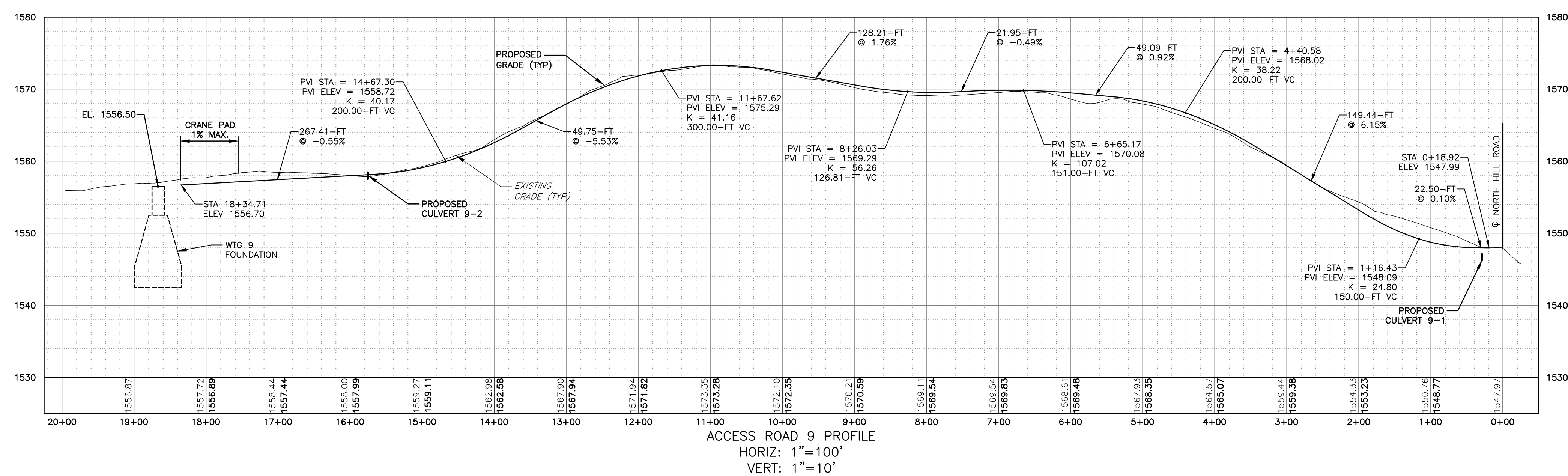
TITLE OF DRAWING
WTG 11 ACCESS RD PLAN & PROFILE

DRAWING NO.
C-124

SHEET 31 OF 81



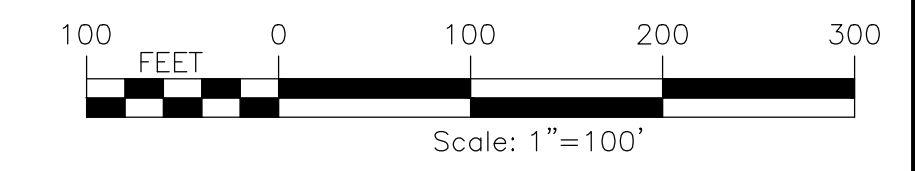
PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'

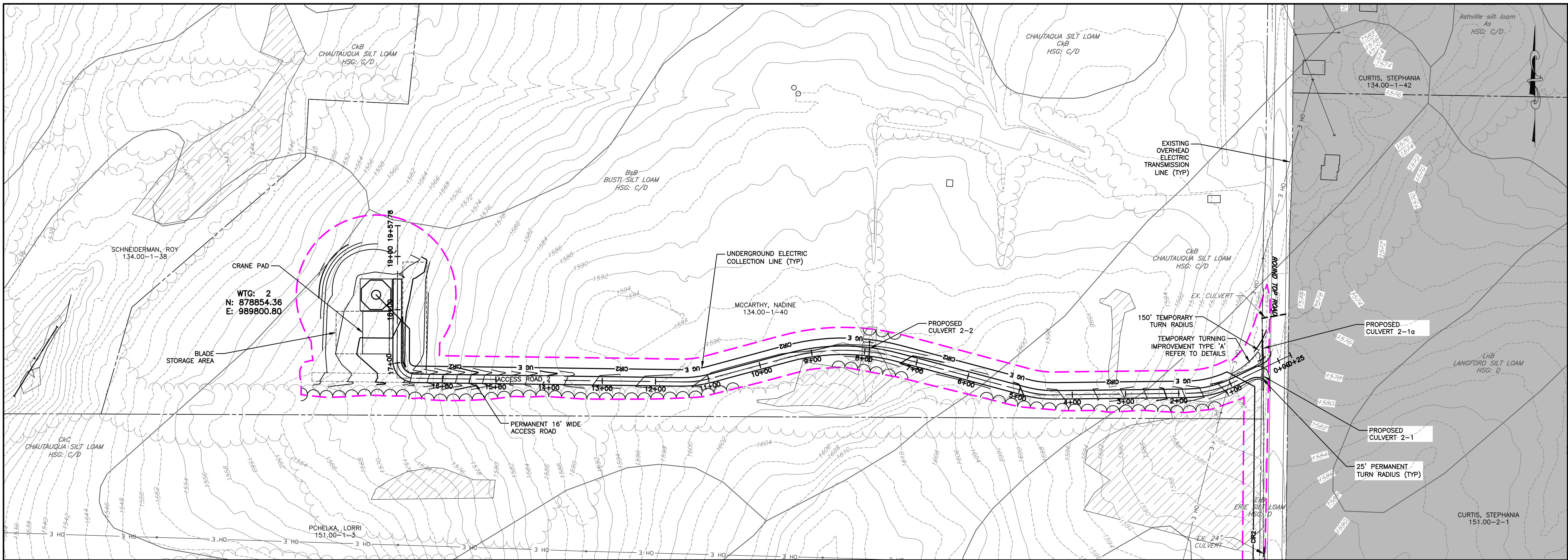


ACCESS ROAD 9 PROFILE
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 VERT: 1"=10'

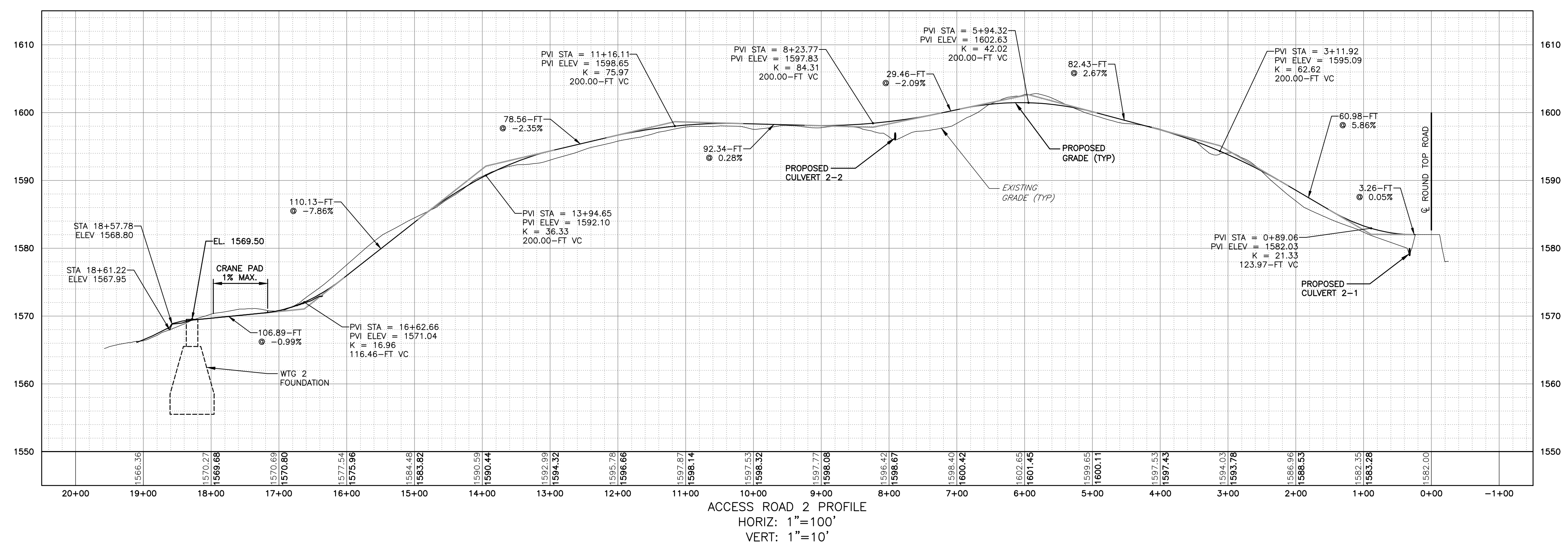
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 USER: Steven Mellott

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 9 ACCESS RD PLAN & PROFILE	
DRAWING NO.		C-125	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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DESCRIPTION		DATE	
BY			

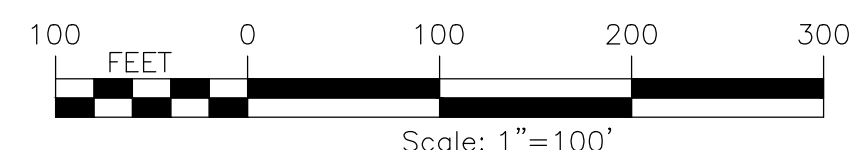




PLAN VIEW
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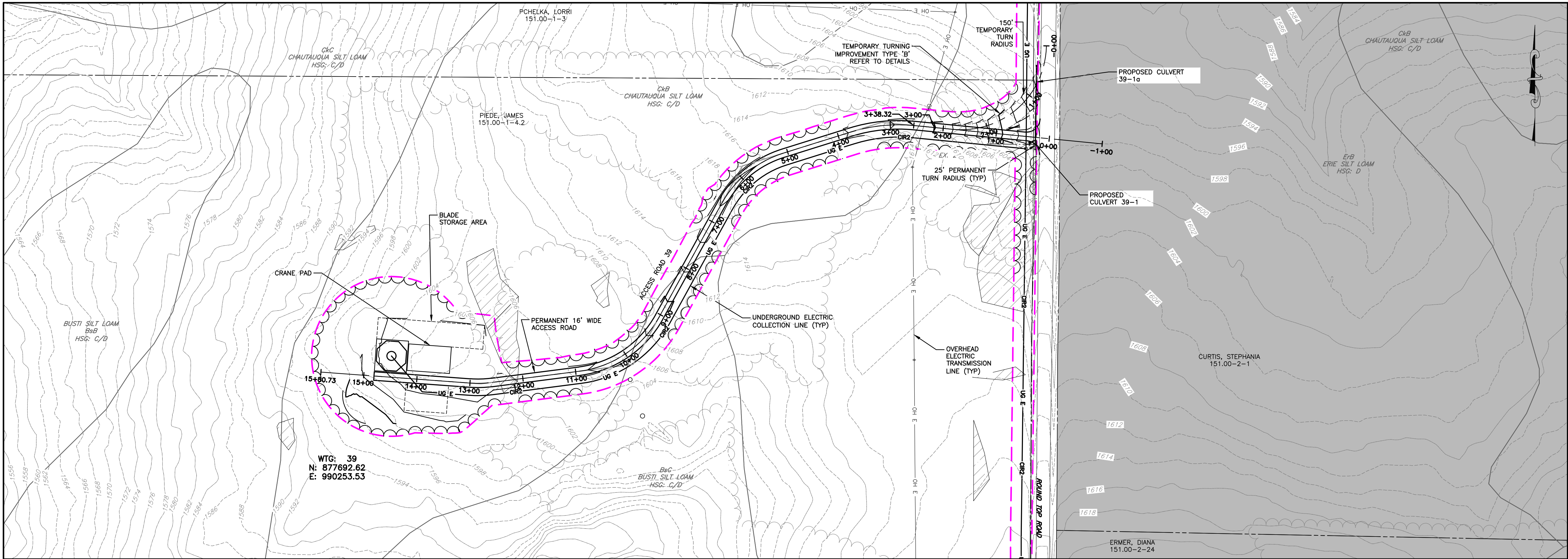


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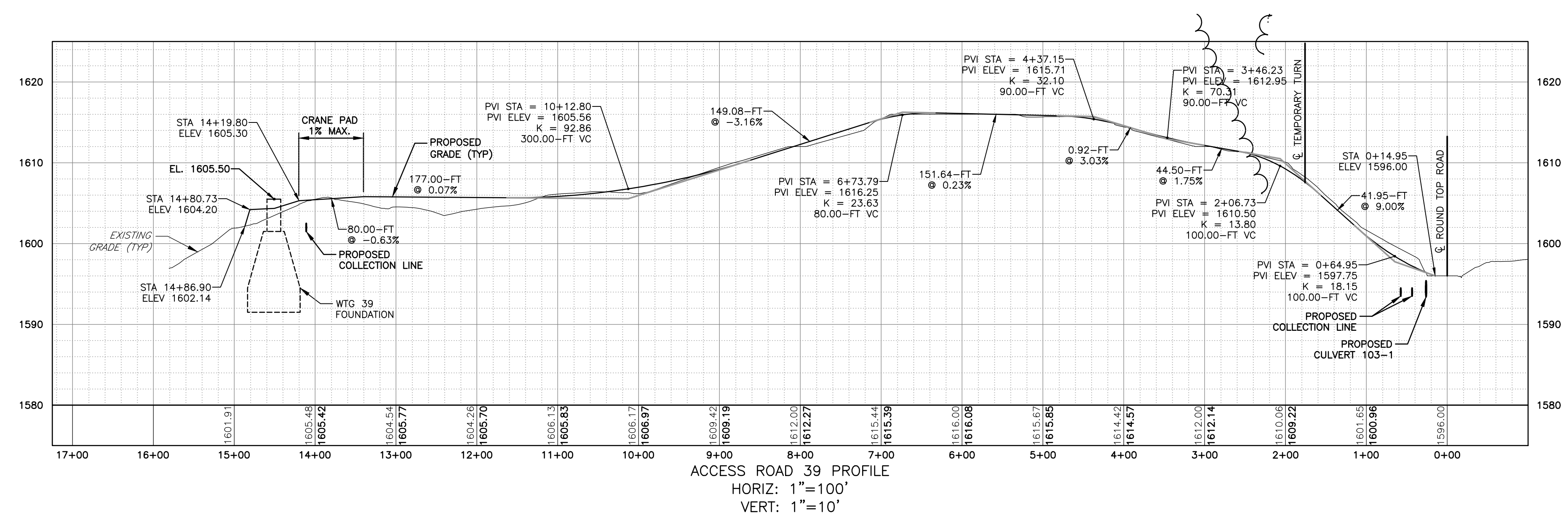


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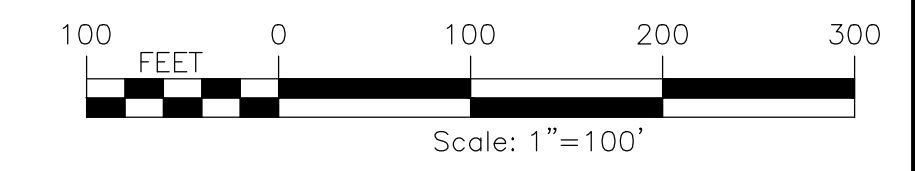
		PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS	
FA PROJECT NO. 150001		TITLE OF DRAWING WTG 2 ACCESS RD PLAN & PROFILE	
PROJECT MANAGER P. MCCARTHY		DRAWING NO. C-126	
DRAWN BY VT, TK		SHEET 33 OF 81	
SCALE AS SHOWN		DATE OCT. 2016	
ISSUE DATE OCT. 2016		DESCRIPTION 	
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PLAN VIEW
SCALE: 11X17 1"=200'
22X34 1"=100'



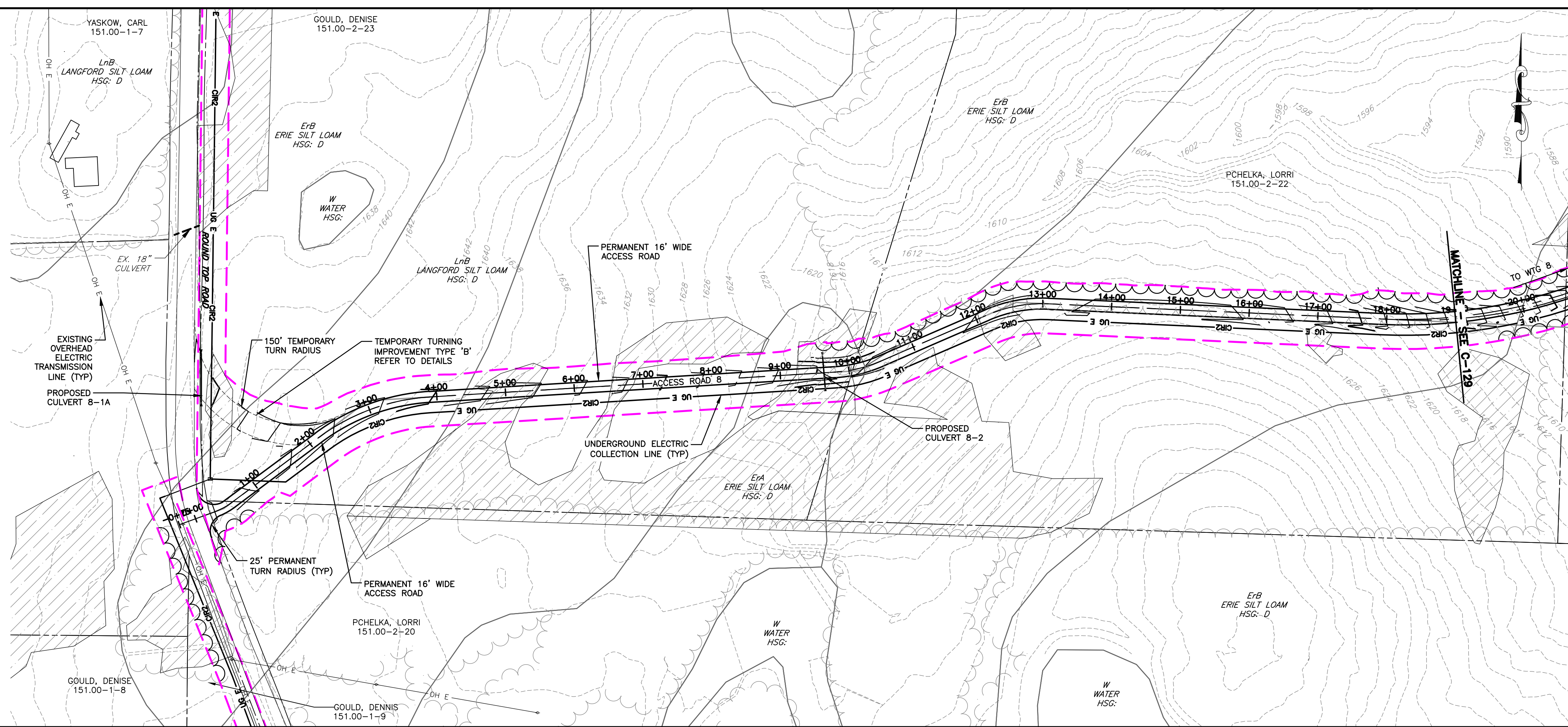
ACCESS ROAD 39 PROFILE
HORIZ: 1"=100'
VERT: 1"=10'



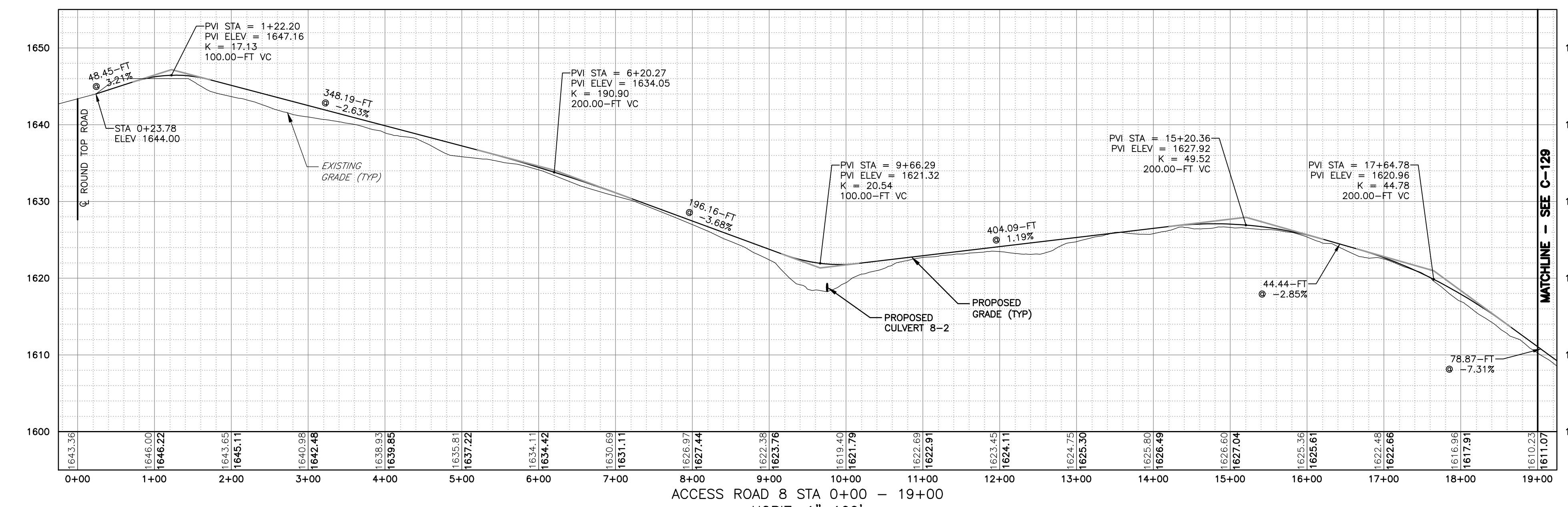
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 39 ACCESS RD PLAN & PROFILE		DRAWING NO. C-127
PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK		DATE OCT. 2016
FA PROJECT NO. 150001		SCALE AS SHOWN		ISSUE DATE OCT. 2016
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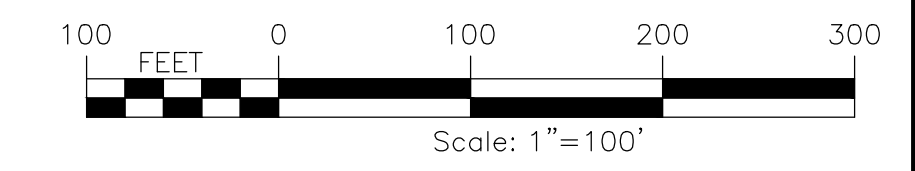




PLAN VIEW
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22X34 1"=100'



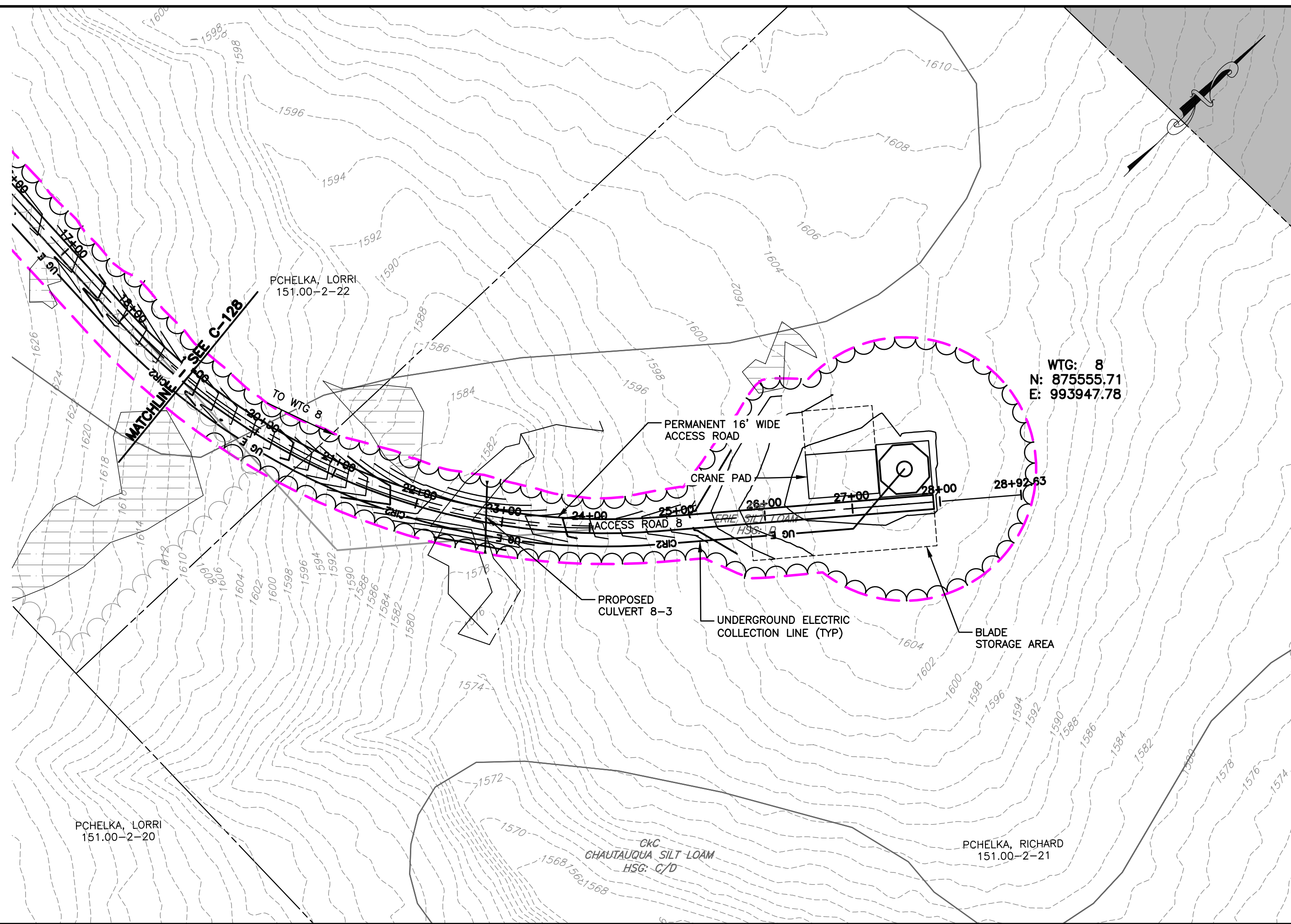
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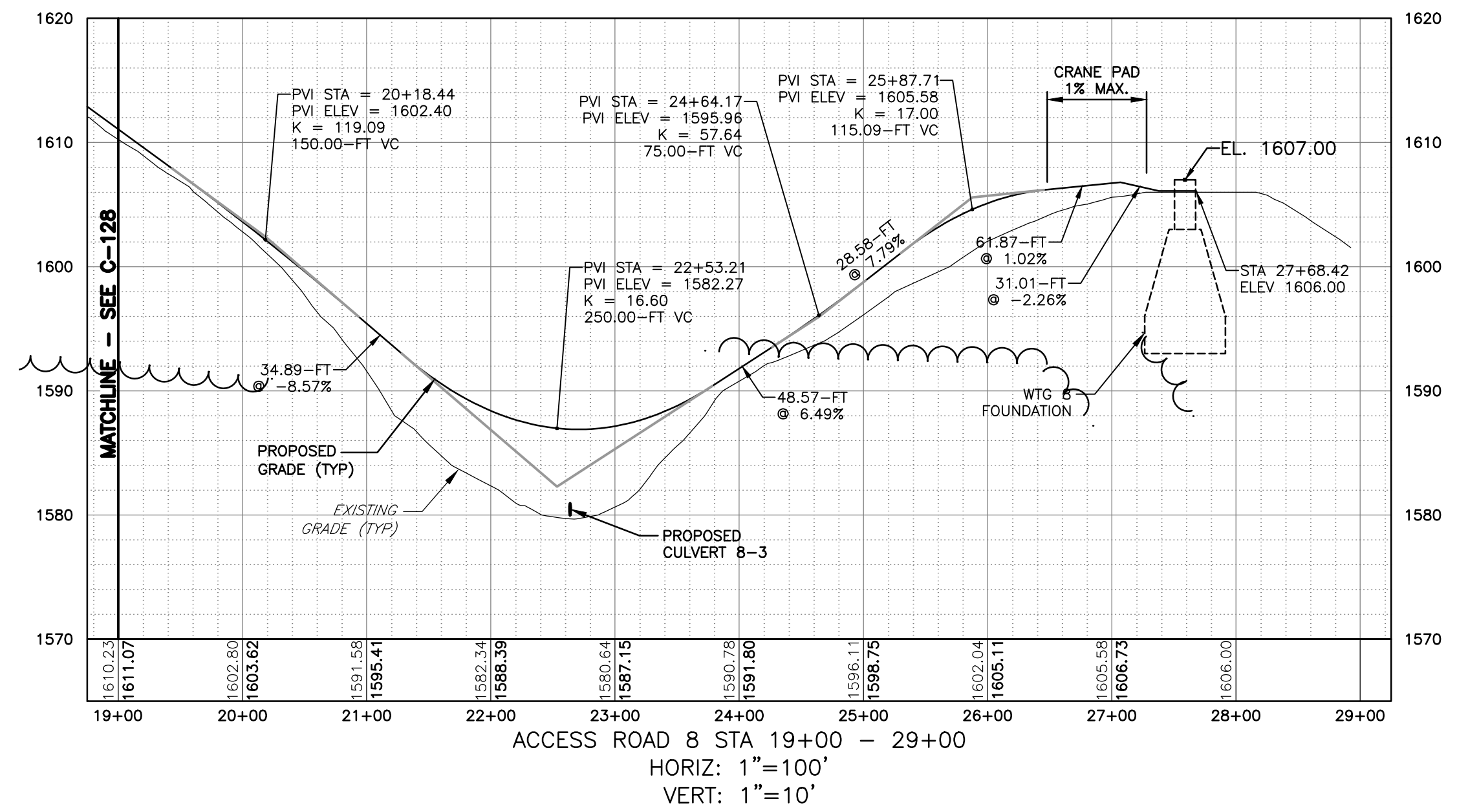
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USER: Steven Mellat

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 8 ACCESS RD PLAN & PROFILE	
DRAWING NO.		C-128	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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DESCRIPTION		DATE	
BY			

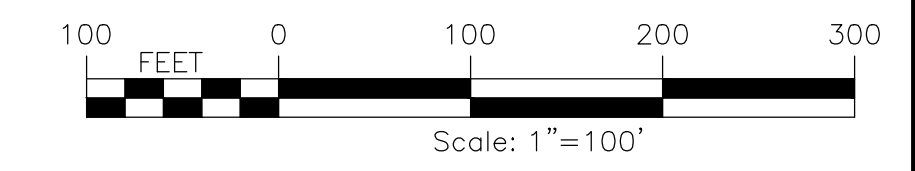
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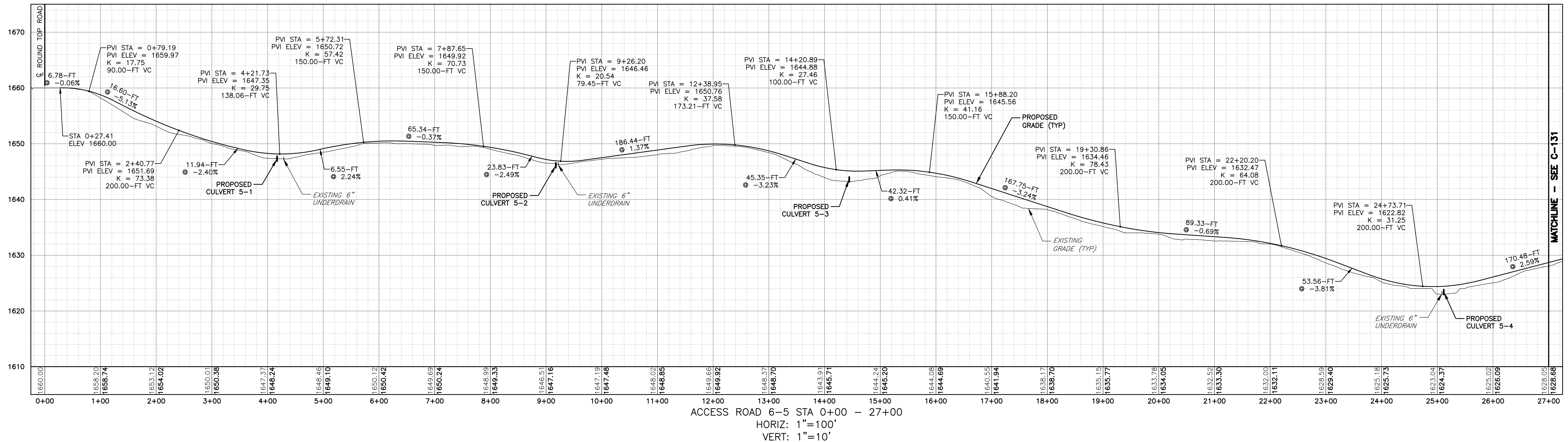
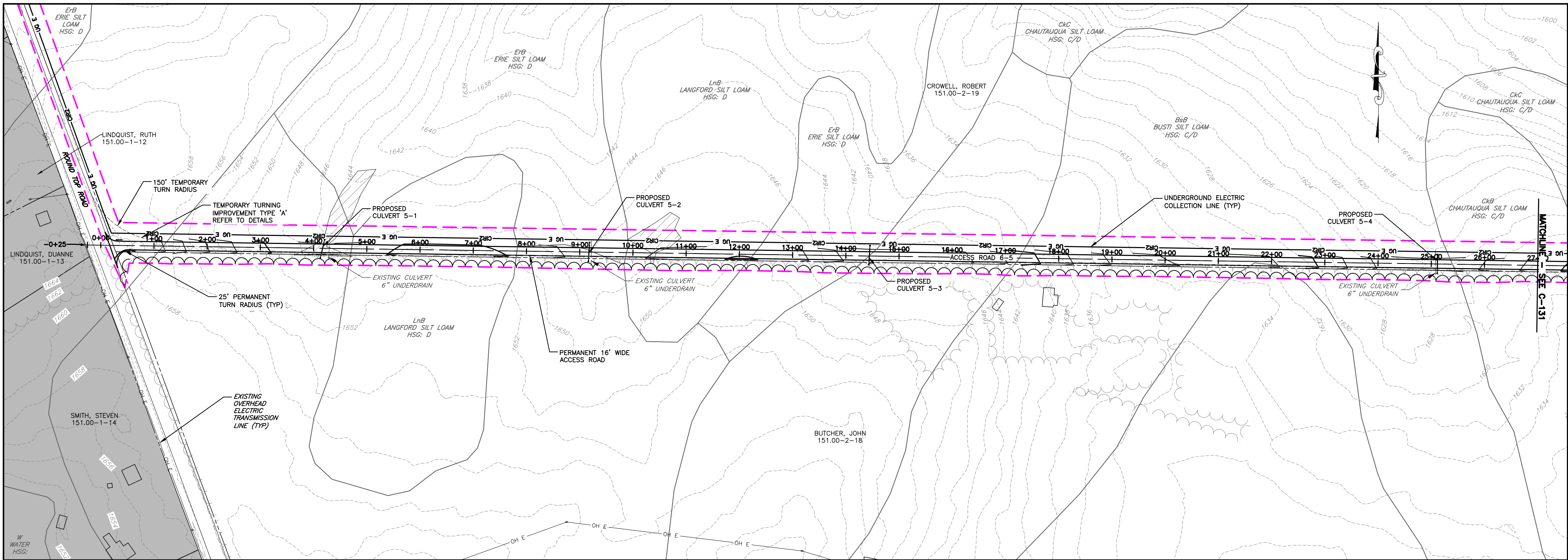
PLAN VIEW
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ACCESS ROAD 8 STA 19+00 - 29+00
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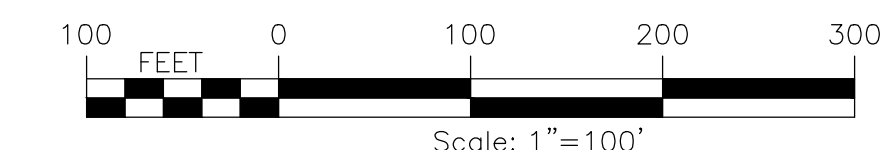


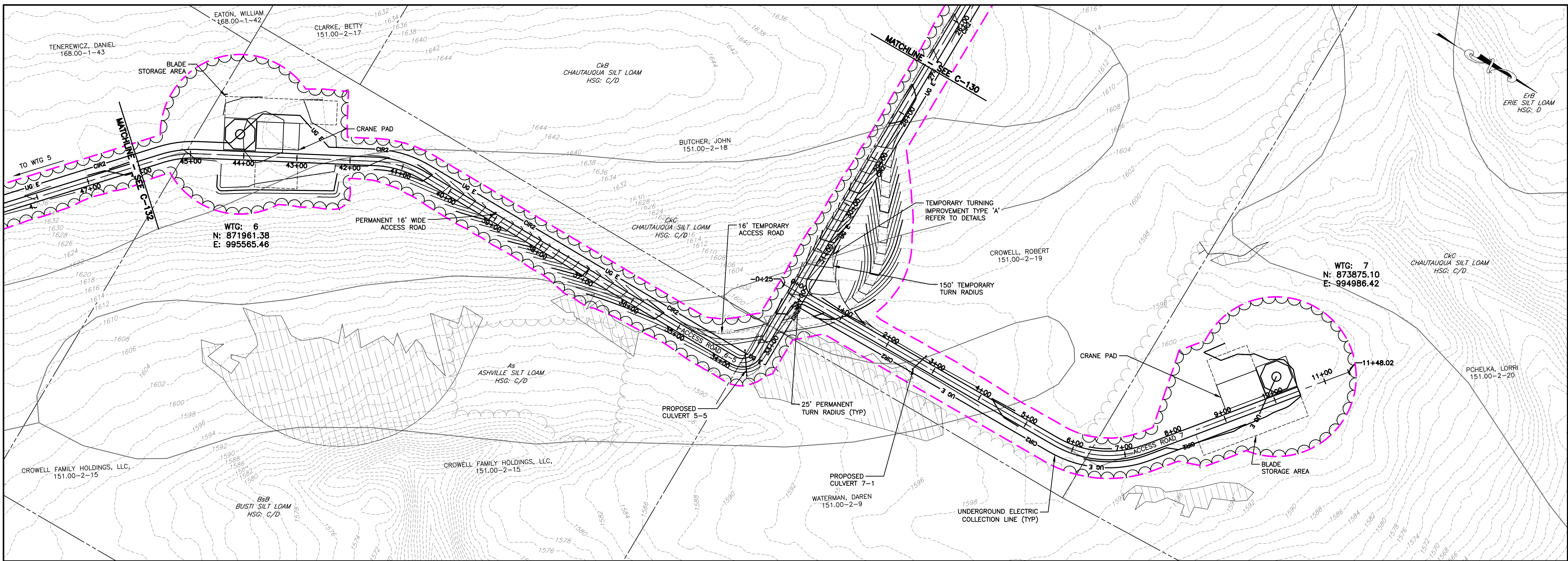
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 8 ACCESS RD PLAN & PROFILE		
DRAWING NO. C-129		SHEET 36 OF 81		
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN	ISSUE DATE OCT. 2016	COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., D.P.C. New York State Education Law, Section 1502.1-a(3) requires that the seal of a professional engineer or land surveyor be placed on all drawings prepared by or under the supervision of a professional engineer or land surveyor, to alter on them in any way, in any form including the use of electronic means, without the written consent of the professional engineer or land surveyor. The seal of a professional engineer or land surveyor shall be placed on the drawing, and a specific description of the alteration.	REV 7 6 5 4 3 2 1	DESCRIPTION DATE BY



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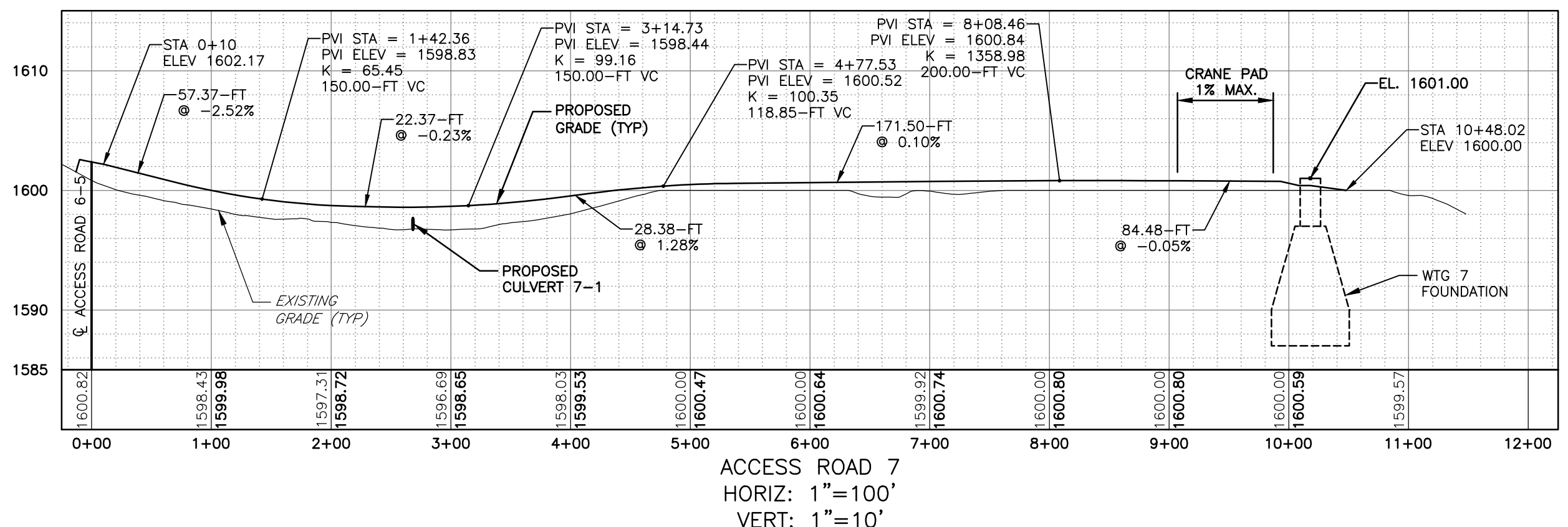
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 7 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-130		SHEET 37 OF 81	
PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY	
DRAWN BY VT, TK		SCALE AS SHOWN	
ISSUE DATE OCT. 2016		REV	
COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C.		DESCRIPTION	
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BY		DATE	



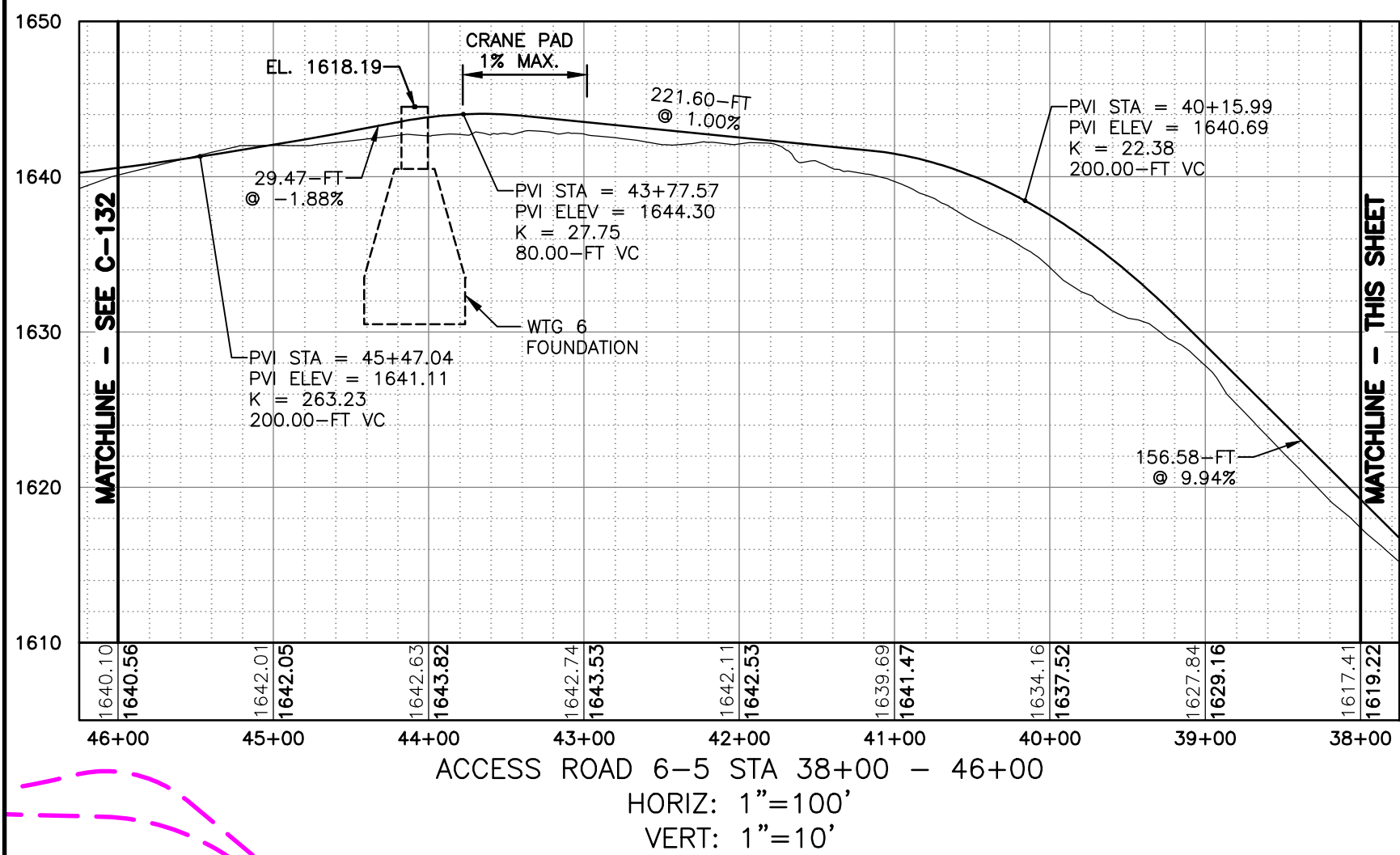


PLAN VIEW

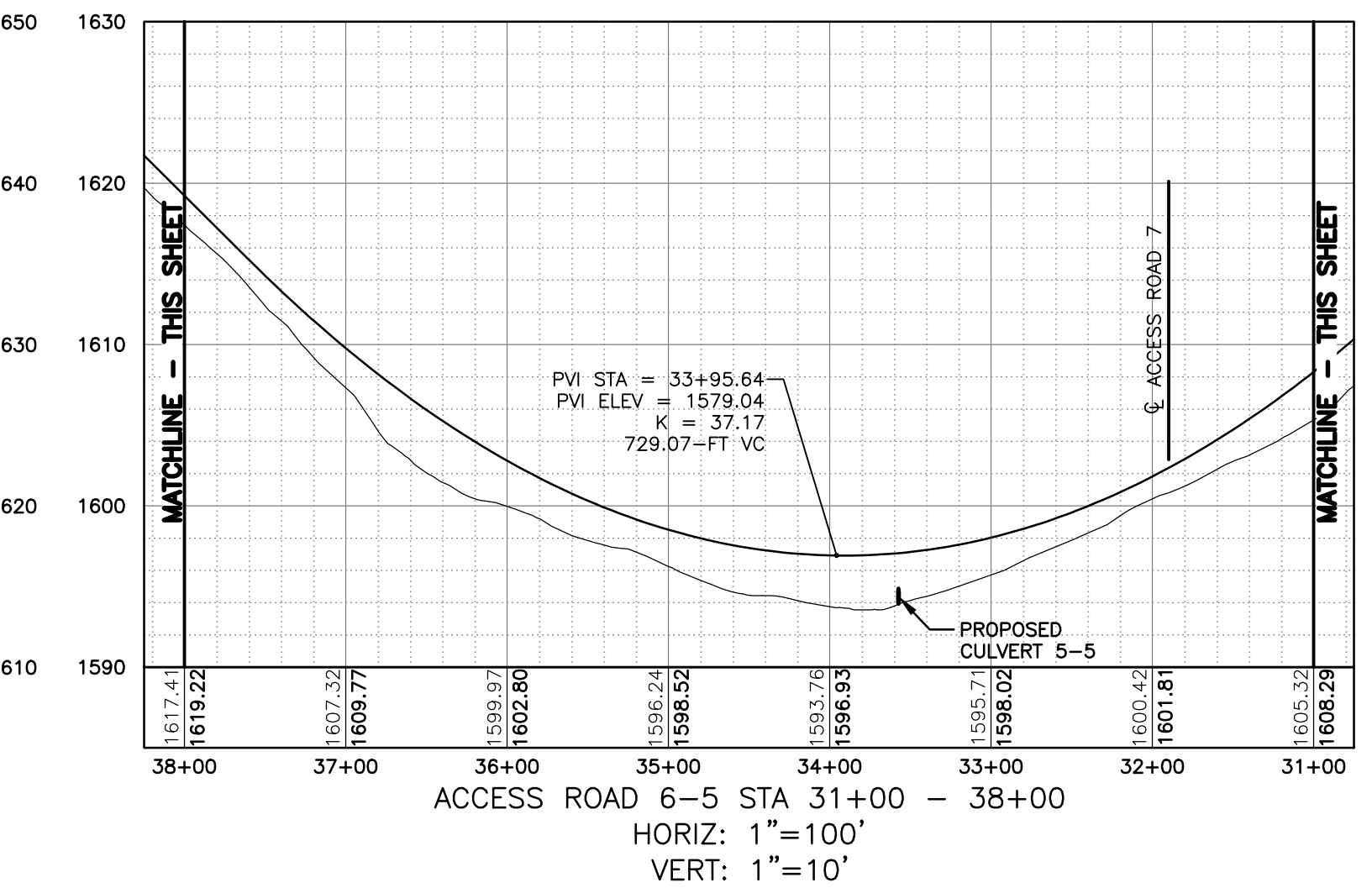
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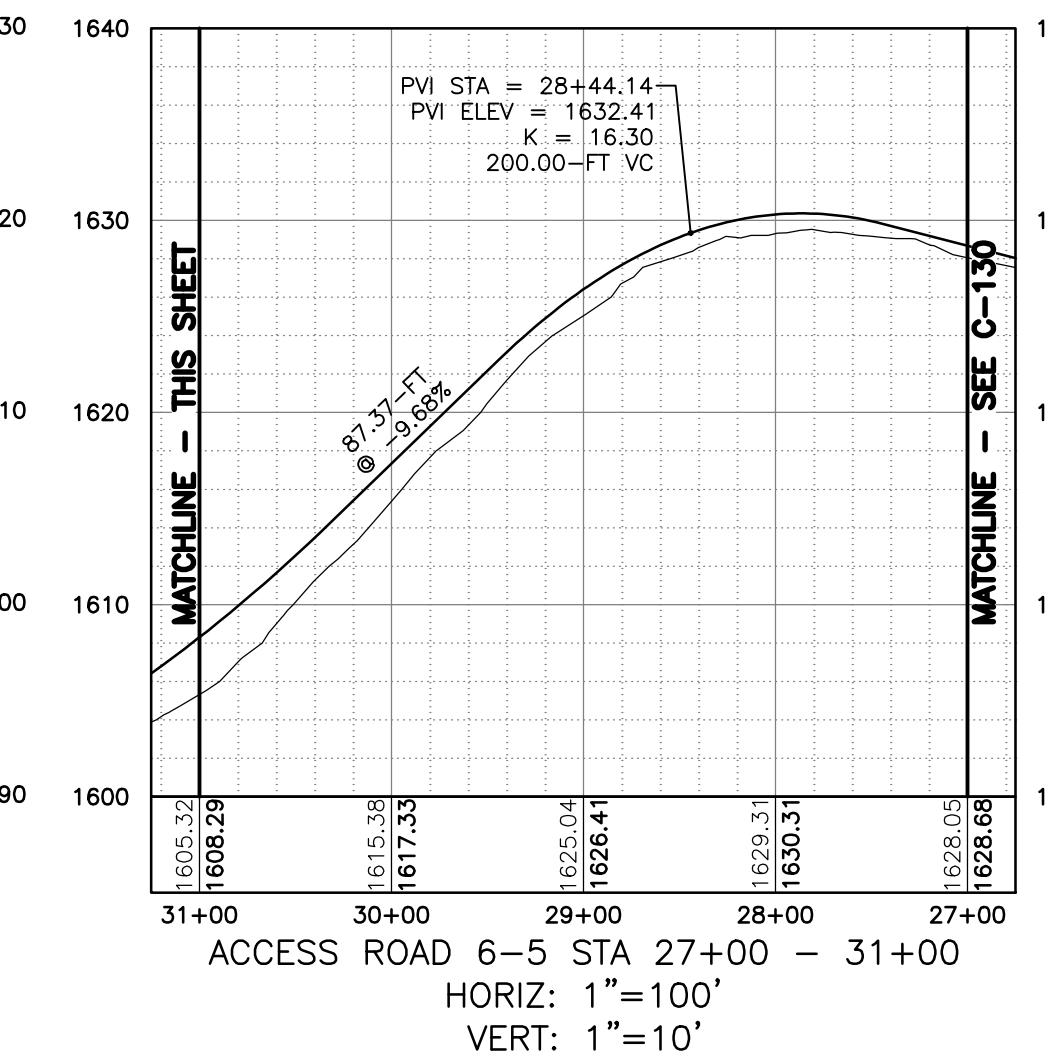
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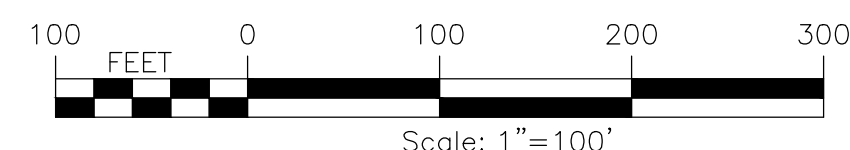
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VERT: 1"=10'



ACCESS ROAD 6-5 STA 31+00 - 38+00
HORIZ: 1"=100'
VERT: 1"=10'



ACCESS ROAD 6-5 STA 27+00 - 31+00
HORIZ: 1"=100'
VERT: 1"=10'



REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

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FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN	ISSUE DATE OCT. 2016
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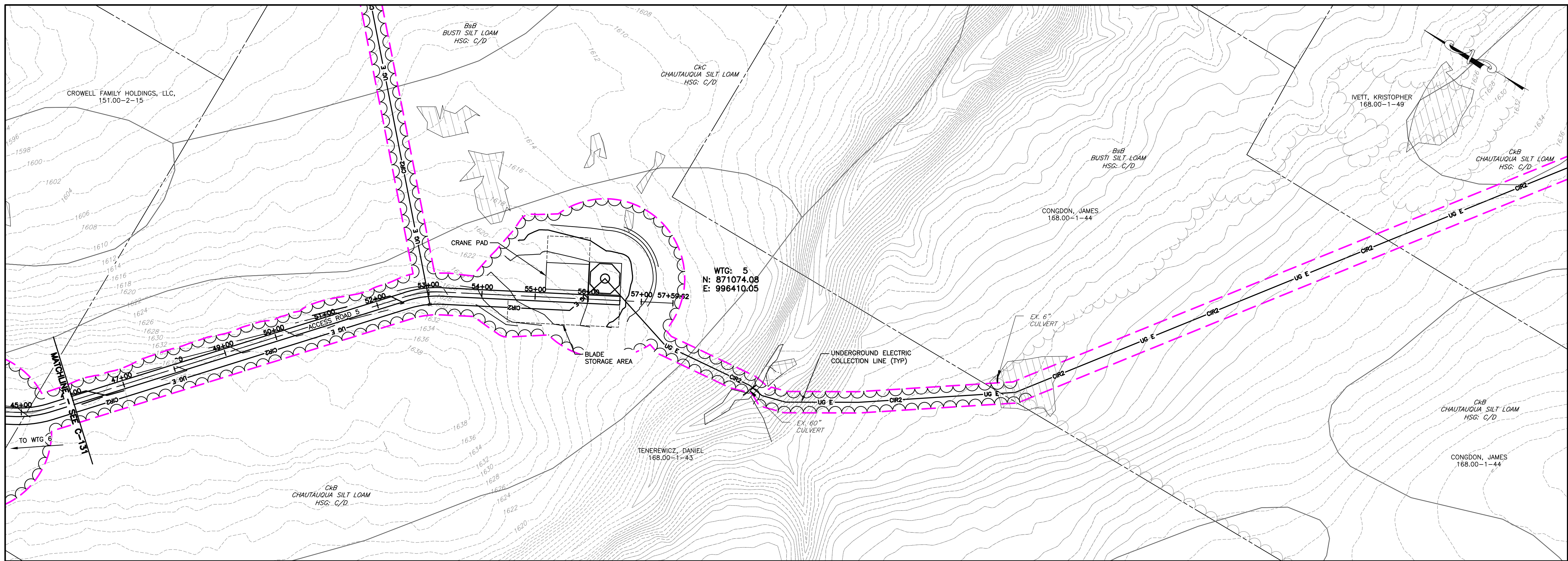
PROJECT
 BALL HILL WIND FARM
 TOWNS OF HANOVER & VILLENOVA
 CHAUTAQUA COUNTY, NY
 PRELIMINARY PLANS

TITLE OF DRAWING
 WTG 7 ACCESS RD PLAN & PROFILE

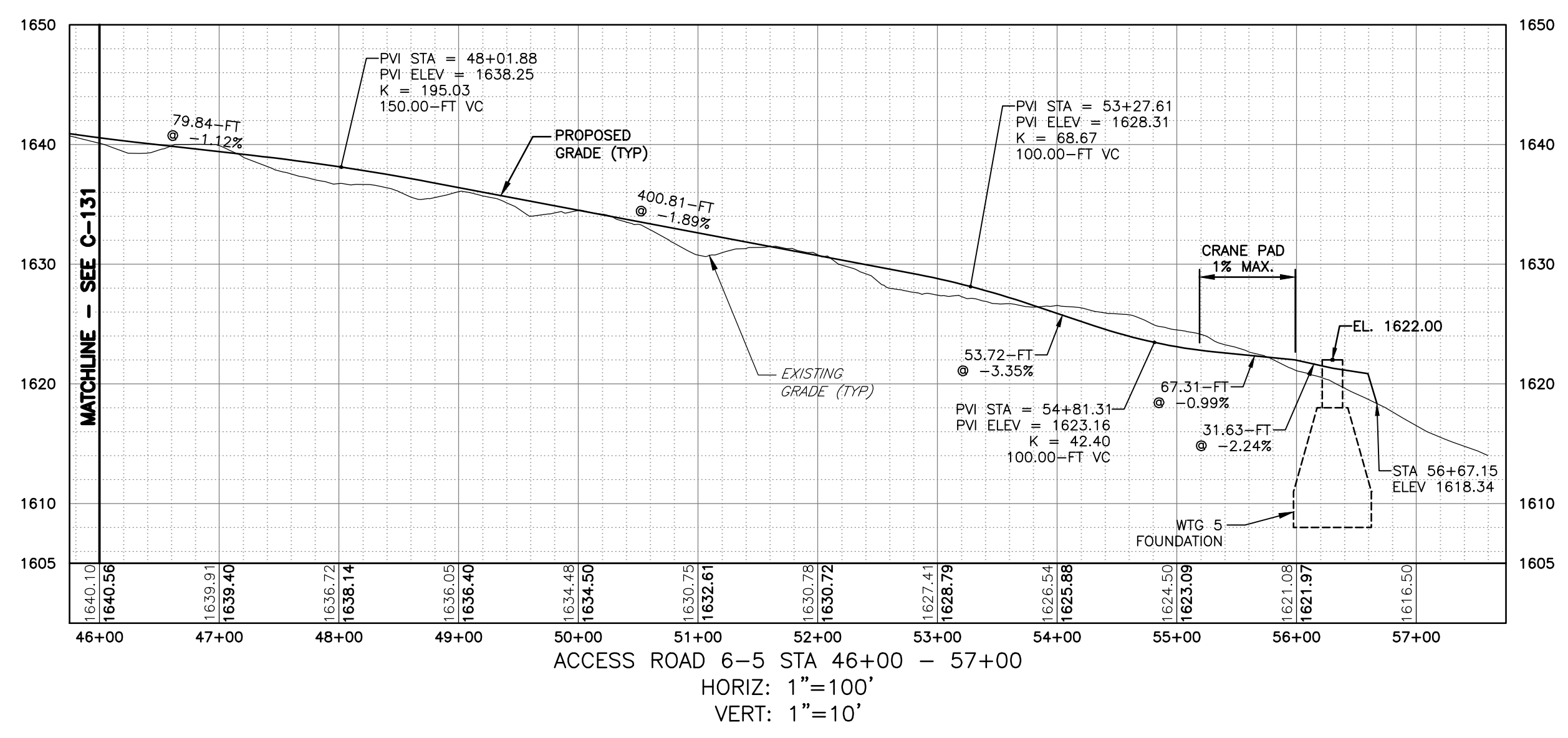
DRAWING NO.
C-131
 SHEET 38 OF 81

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 USER: Steven Mellott

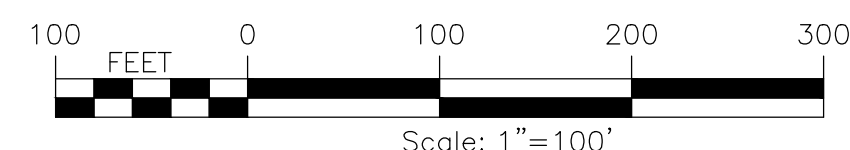
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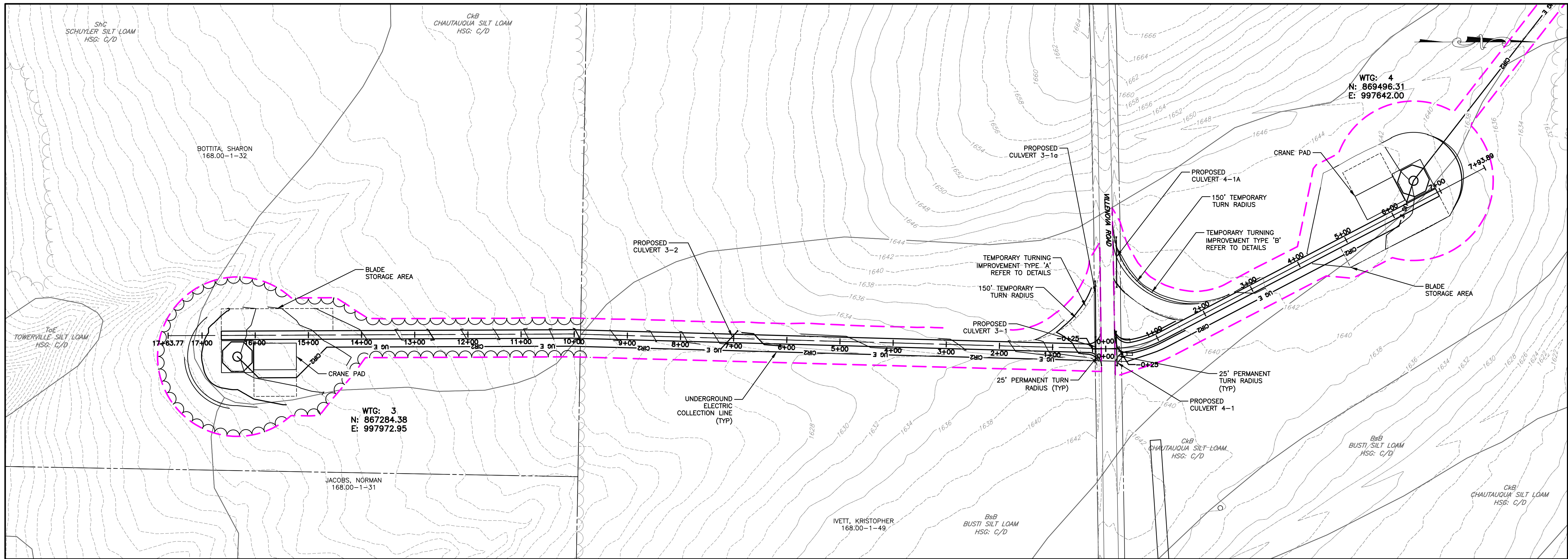
PLAN VIEW
 SCALE: 11X17 1"=200'
 22X34 1"=100'



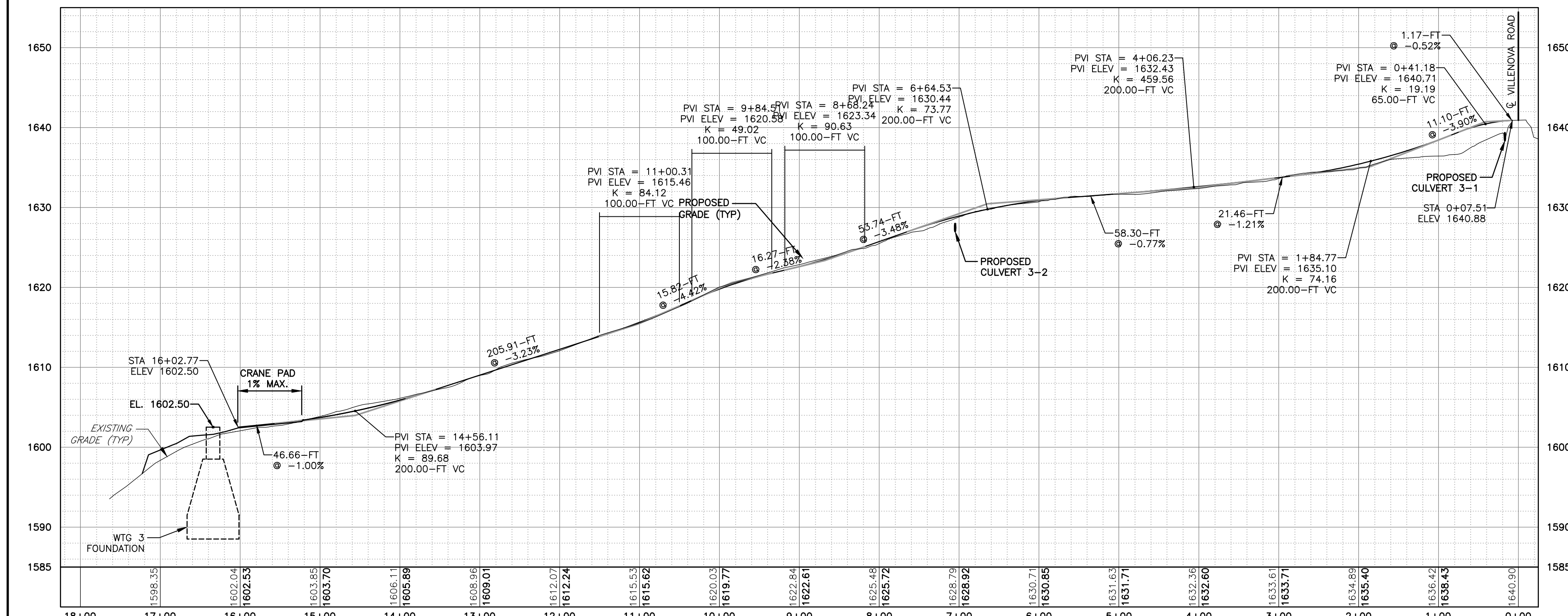
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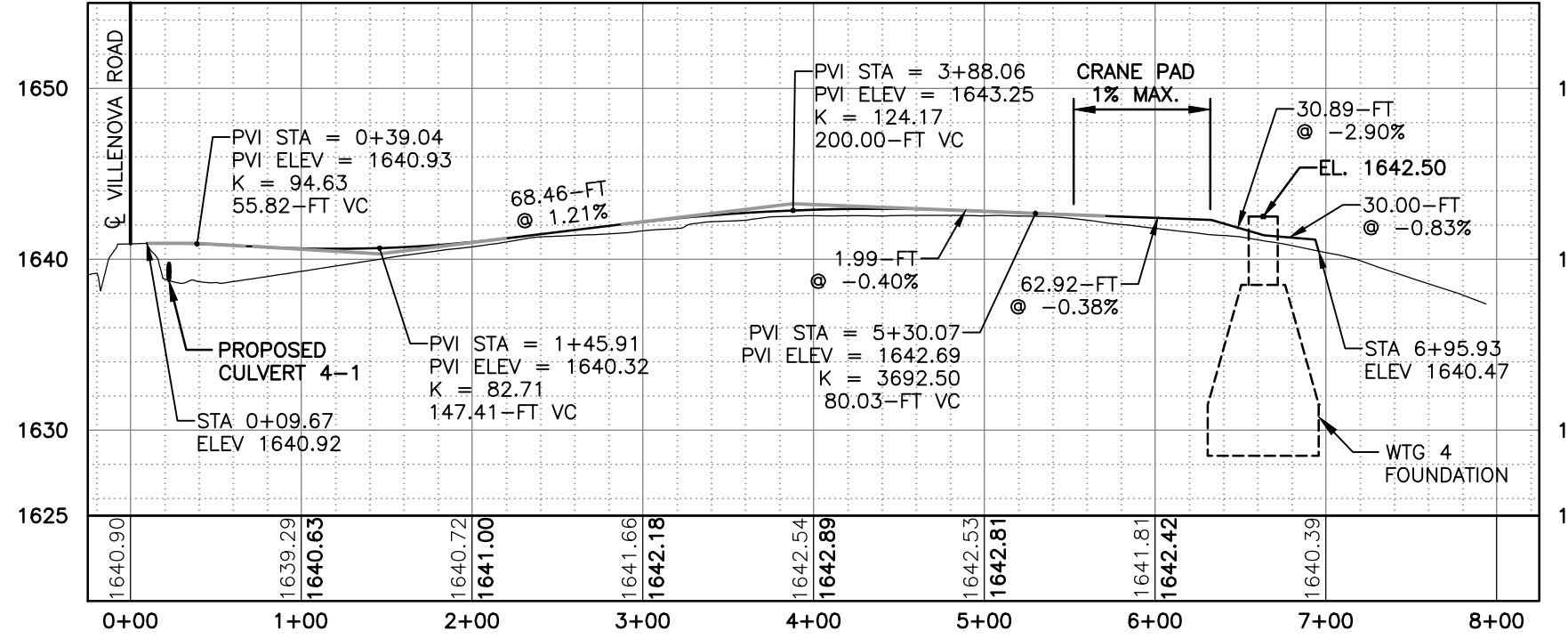
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING WTG 5 ACCESS RD PLAN & PROFILE	
DRAWING NO. C-132		SHEET 39 OF 81	
FA PROJECT NO. 150001	PROJECT MANAGER P. MCCARTHY	DRAWN BY VT, TK	SCALE AS SHOWN
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		DESCRIPTION	DATE
			BY



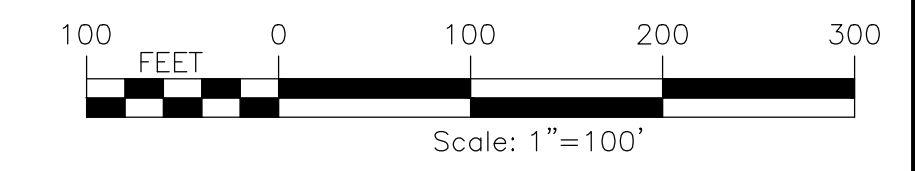
PLAN VIEW
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22X34 1"=100'



ACCESS ROAD 3
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VERT: 1"=10'



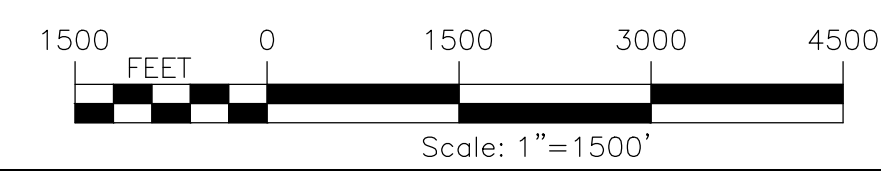
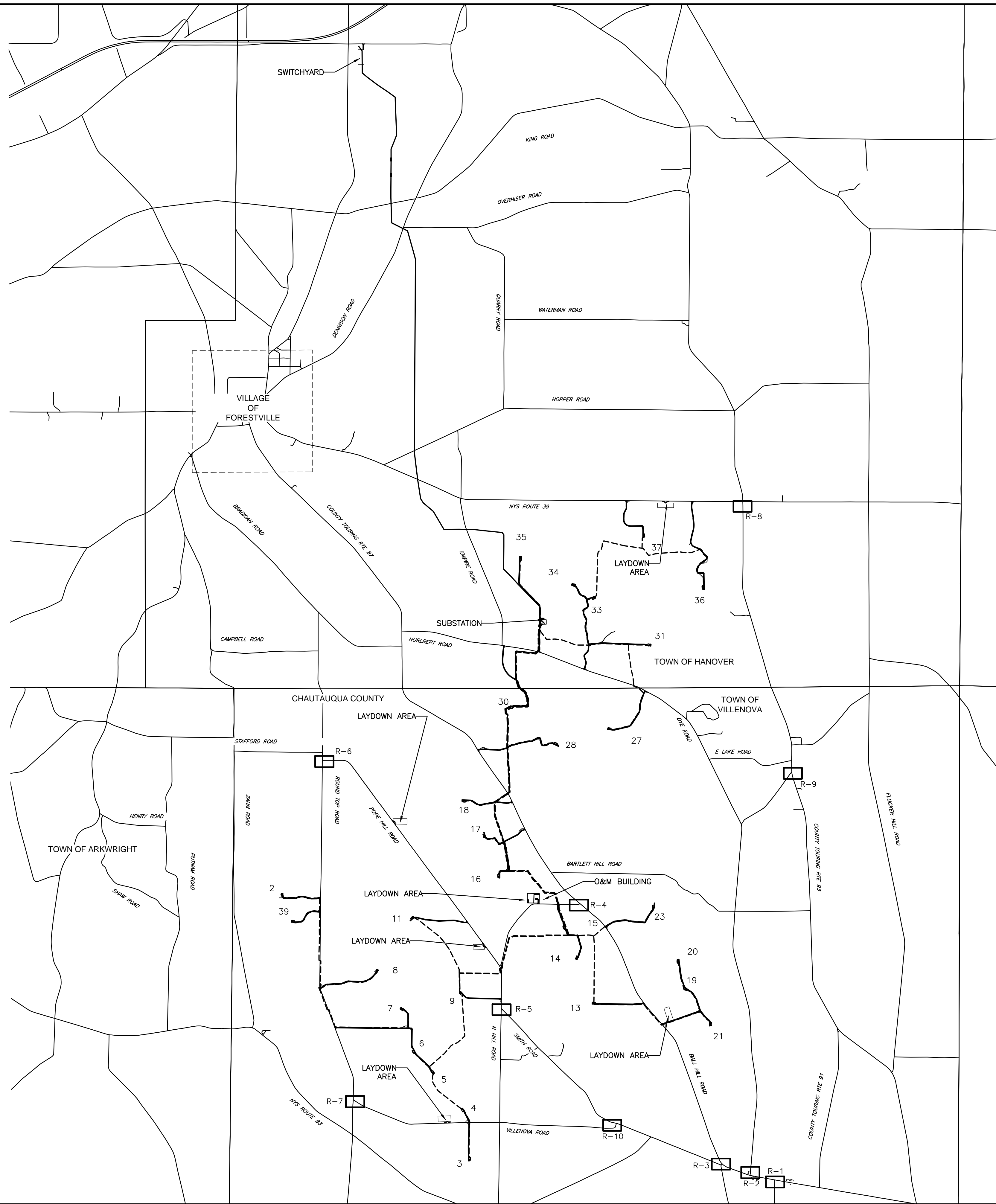
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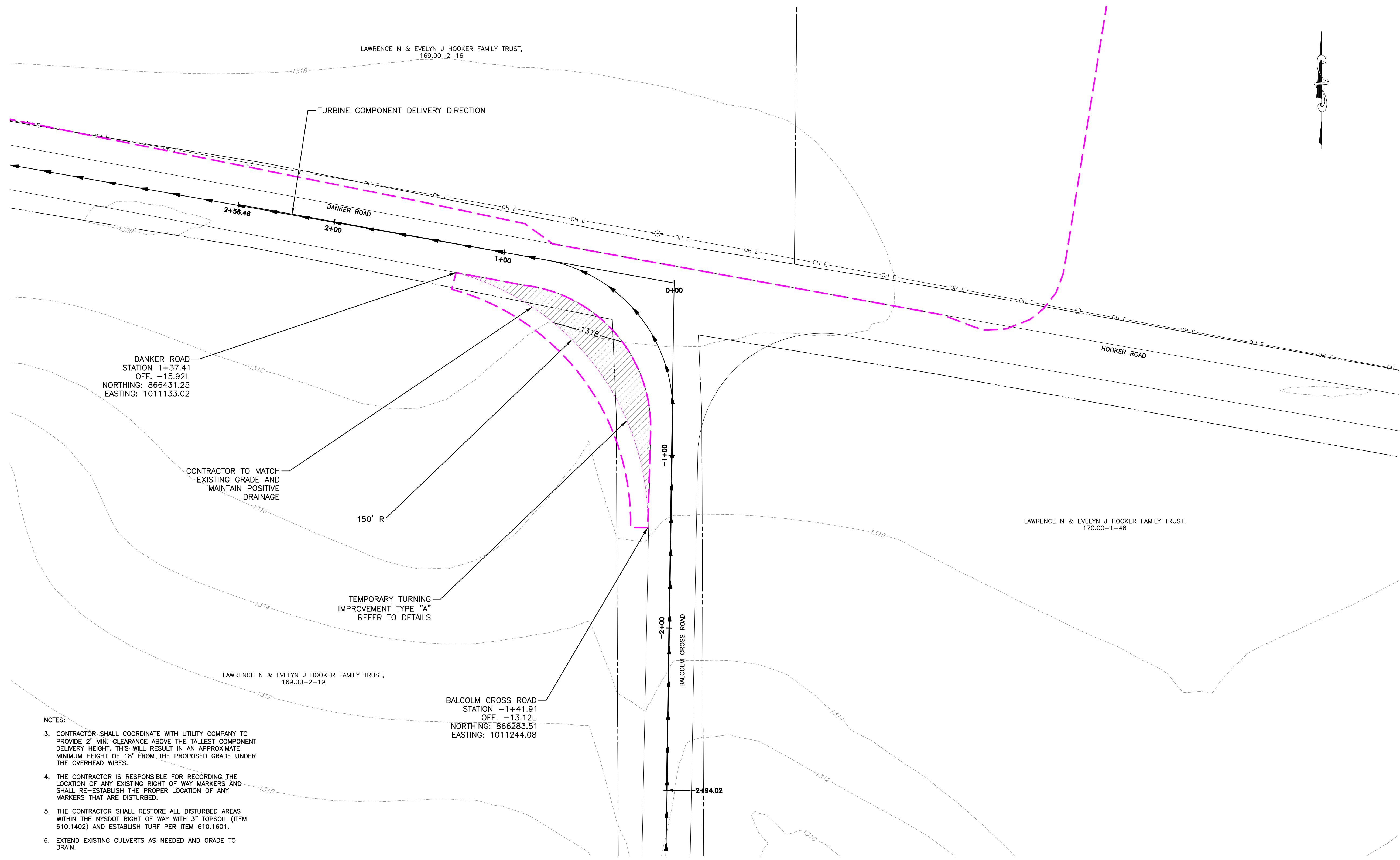
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FA PROJECT NO. 150001	PROJECT MANAGER P. MCCARTHY	DRAWN BY VT, TK	SCALE AS SHOWN	ISSUE DATE OCT. 2016			
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS							
TITLE OF DRAWING WTG 3 ACCESS RD PLAN & PROFILE							
DRAWING NO. C-133							
SHEET 40 OF 81							

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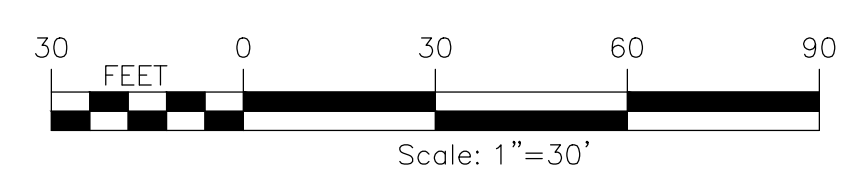
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		 WWW.FISHERASSOC.COM	FA PROJECT NO. 150001	COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., D.P.C. <small>New York State Education Law, Section 1502.1-b requires that all drawings submitted for review and approval by the State Education Department be prepared by a licensed professional engineer or land surveyor, to alter on them in any way, or in any manner that may be construed as a violation of the law, is prohibited. The drawing engineer or land surveyor's name shall be indicated on the drawing, followed by the signature, date, and a specific description of the alteration.</small>	ISSUE DATE OCT. 2016	
TITLE OF DRAWING PUBLIC INTERSECTION IMPROVEMENT INDEX			PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK	SCALE AS SHOWN
DRAWING NO. IND-R		DESCRIPTION		REV	DATE	BY
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 USER: Steven Mellat



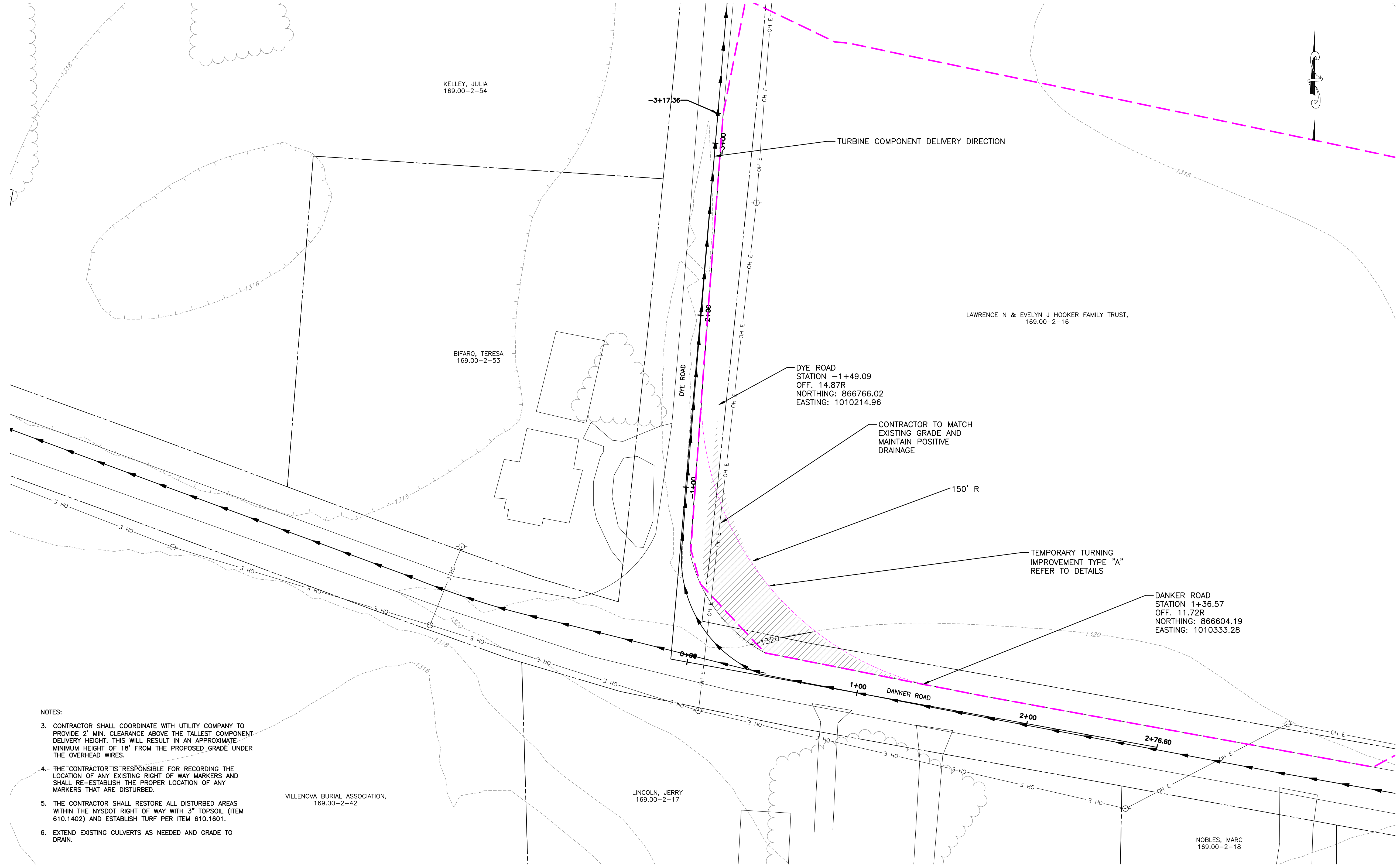
- NOTES:
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
 - THE CONTRACTOR IS RESPONSIBLE FOR RECORDING THE LOCATION OF ANY EXISTING RIGHT OF WAY MARKERS AND SHALL RE-ESTABLISH THE PROPER LOCATION OF ANY MARKERS THAT ARE DISTURBED.
 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE NYSOT RIGHT OF WAY WITH 3" TOPSOIL (ITEM 610.1402) AND ESTABLISH TURF PER ITEM 610.1601.
 - EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

BALCOLM CROSS RD & DANKER RD INTERSECTION IMPROVEMENT
 PLAN VIEW
 SCALE: 11X17 1"=60'
 22X34 1"=30'



PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUKA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING BALCOLM CROSS RD & DANKER RD INTERSECTION IMPROVEMENT		DRAWING NO. <h1>R-1</h1>	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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7					
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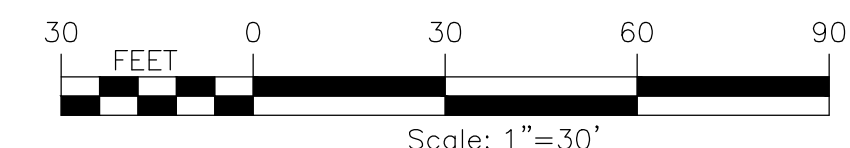
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 USER: Steven Mellott



- NOTES:
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
 - THE CONTRACTOR IS RESPONSIBLE FOR RECORDING THE LOCATION OF ANY EXISTING RIGHT OF WAY MARKERS AND SHALL RE-ESTABLISH THE PROPER LOCATION OF ANY MARKERS THAT ARE DISTURBED.
 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE NYS DOT RIGHT OF WAY WITH 3" TOPSOIL (ITEM 610.1402) AND ESTABLISH TURF PER ITEM 610.1601.
 - EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

DYE RD & DANKER RD INTERSECTION IMPROVEMENT
 PLAN VIEW

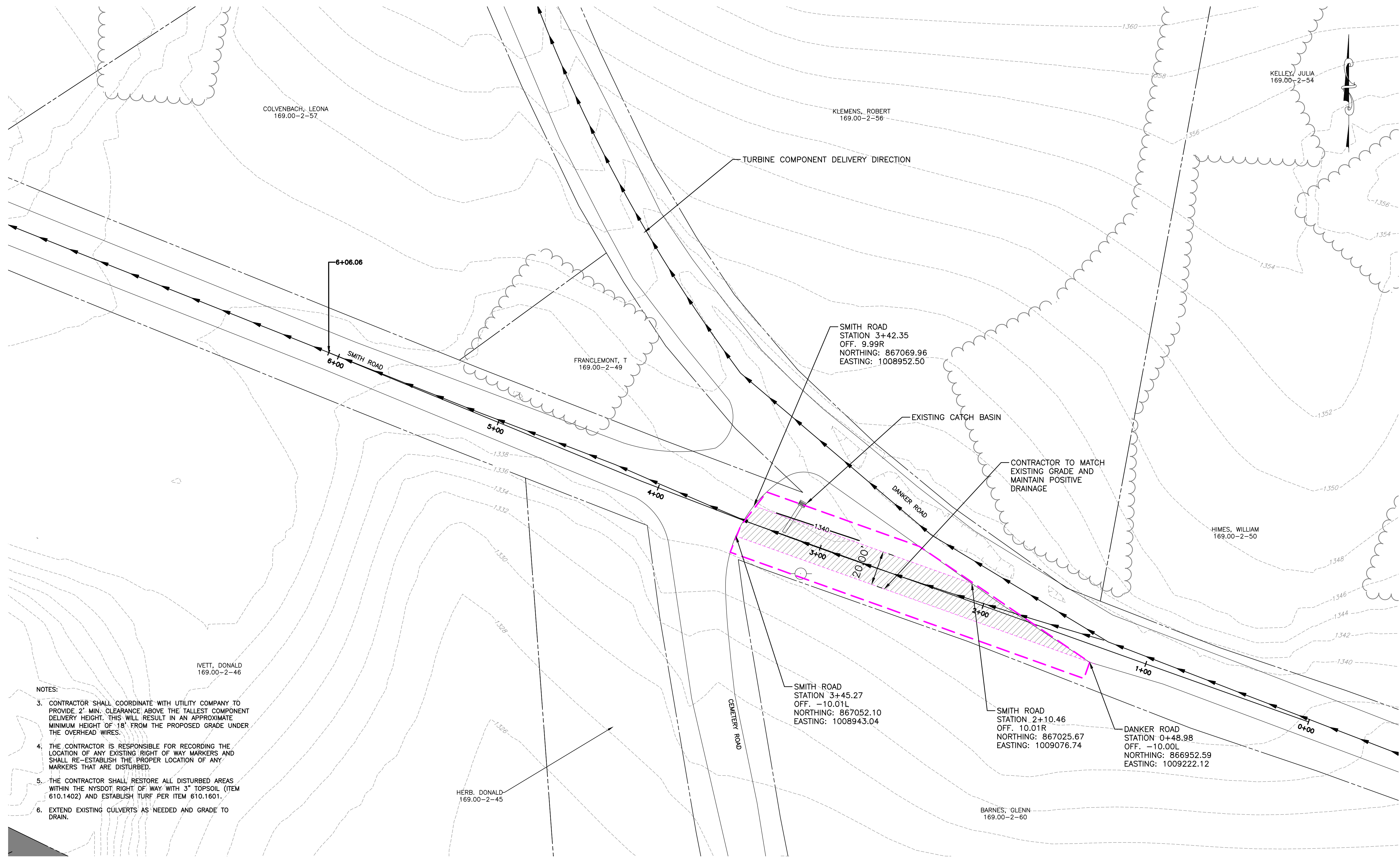
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING DYE RD & DANKER RD INTERSECTION IMPROVEMENT	
FA PROJECT NO. 150001	PROJECT MANAGER P. MCCARTHY	DRAWN BY VT, TK	SCALE AS SHOWN
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R-2

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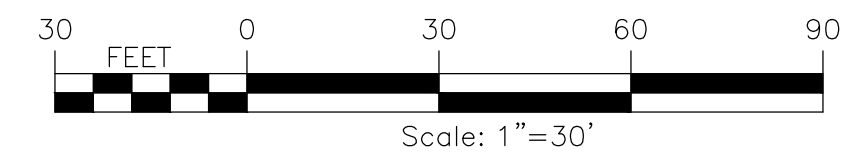


NOTES:

3. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
4. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING THE LOCATION OF ANY EXISTING RIGHT OF WAY MARKERS AND SHALL RE-ESTABLISH THE PROPER LOCATION OF ANY MARKERS THAT ARE DISTURBED.
5. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE NYS DOT RIGHT OF WAY WITH 3" TOPSOIL (ITEM 610.1402) AND ESTABLISH TURF PER ITEM 610.1601.
6. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

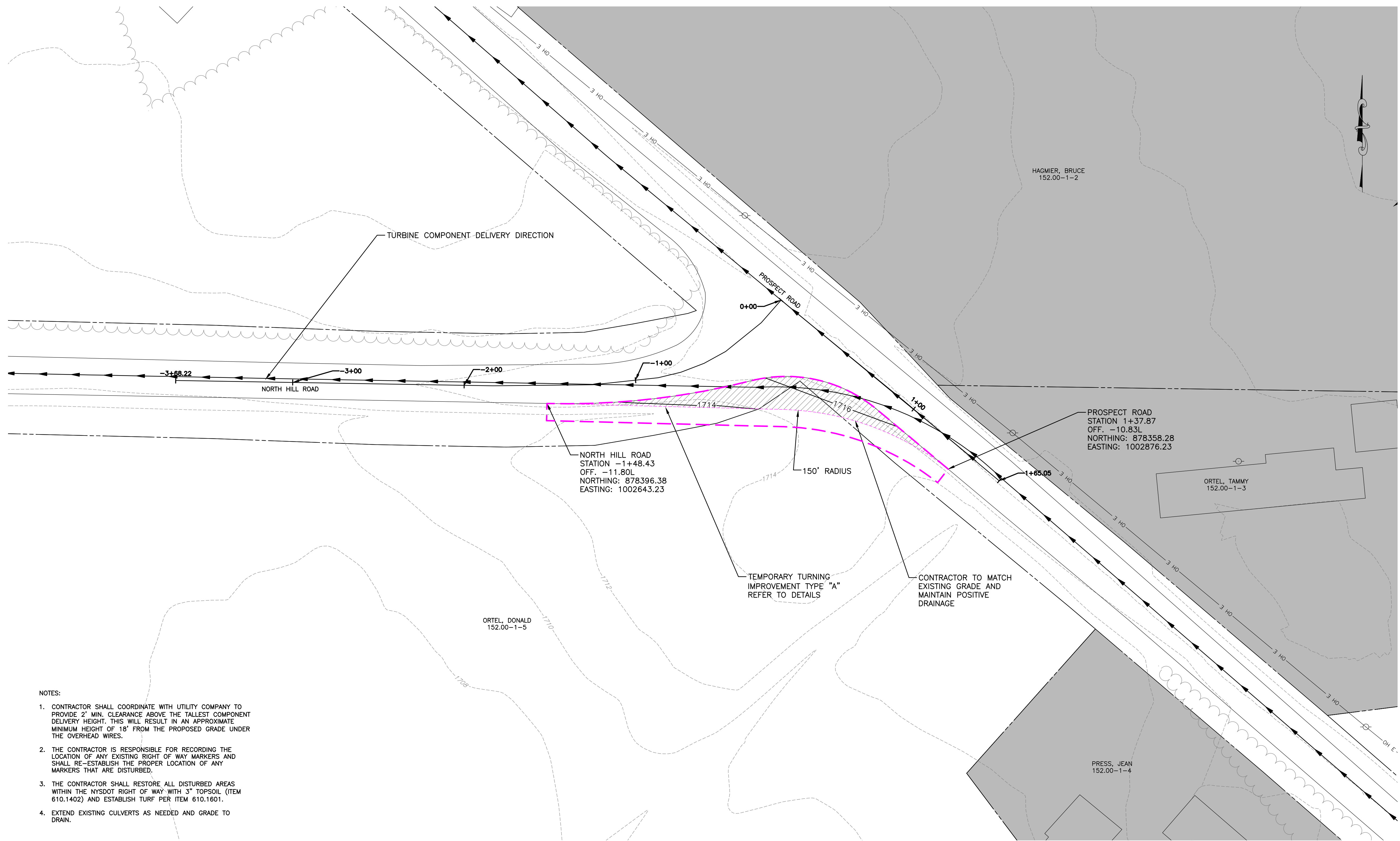
DANKER RD & SMITH RD INTERSECTION IMPROVEMENT
 PLAN VIEW

SCALE: 11X17 1"=60'
 22X34 1"=30'



PROJECT: BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING: DANKER RD & SMITH RD INTERSECTION IMPROVEMENT	
DRAWING NO. <h1 style="text-align: center;">R-3</h1>		SHEET 44 OF 81	
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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DATE		BY	

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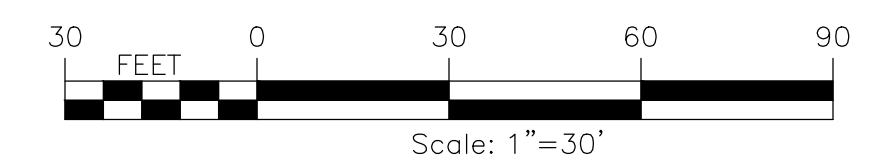


NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
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4. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

**PROSPECT RD & NORTH HILL RD INTERSECTION IMPROVEMENT
 PLAN VIEW**

SCALE: 22X34 1"=30'



<p>PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS</p>		<p>TITLE OF DRAWING PROSPECT RD & NORTH HILL RD INTERSECTION IMPROVEMENT</p>																													
<p>DRAWING NO. R-4</p>		<p>SHEET 45 OF 81</p>																													
<p>F.A. PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN</p>		<p>ISSUE DATE OCT. 2016</p>																													
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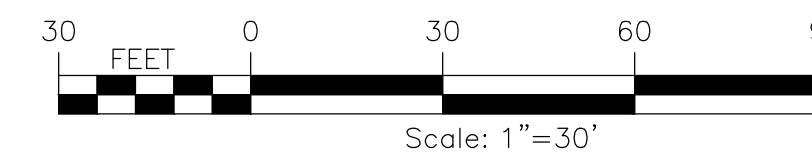


NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
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3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE NYS DOT RIGHT OF WAY WITH 3" TOPSOIL (ITEM 610.1402) AND ESTABLISH TURF PER ITEM 610.1601.
4. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

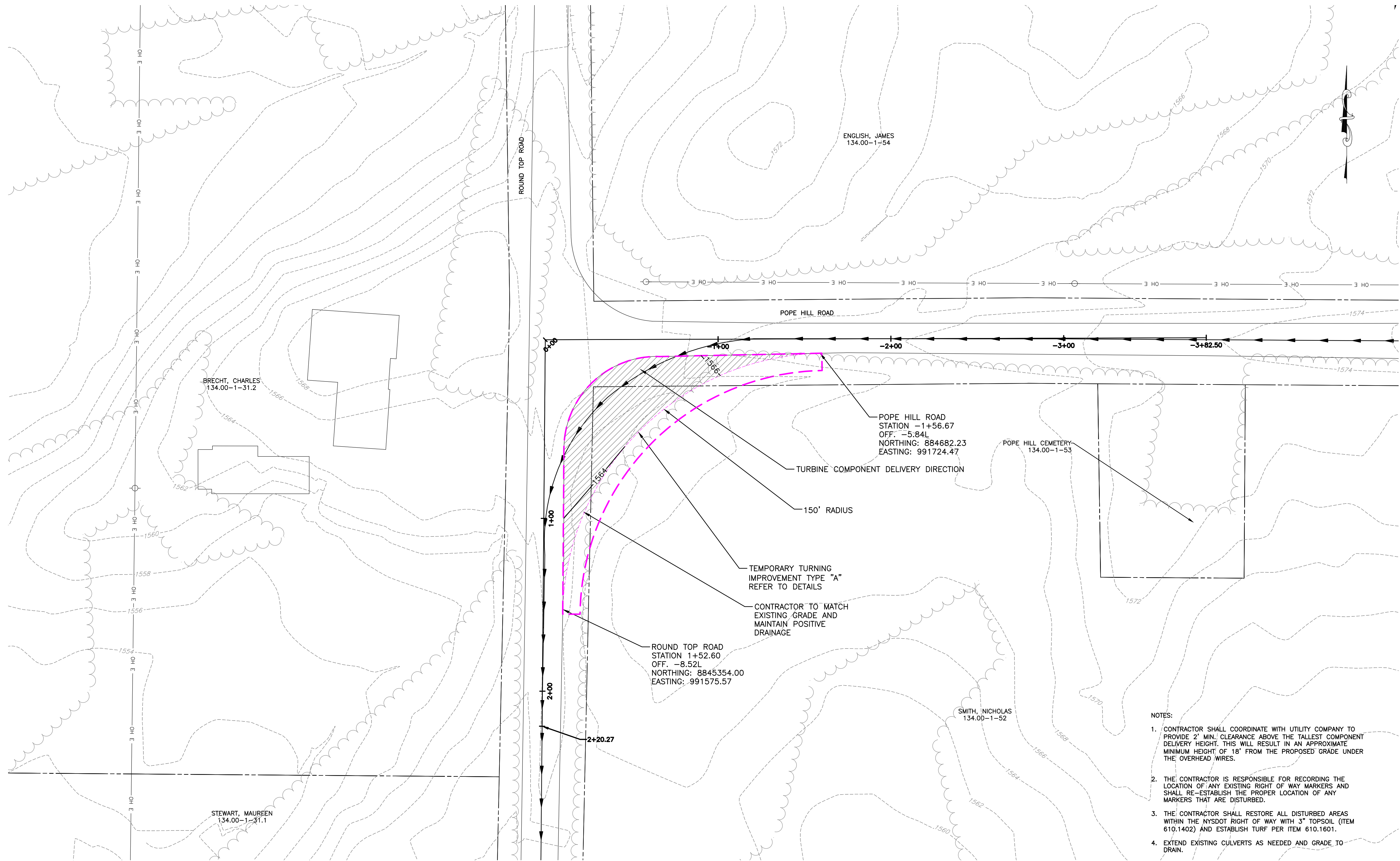
NORTH HILL RD & SMITH RD INTERSECTION IMPROVEMENT
 PLAN VIEW

SCALE: 22X34 1"=30'



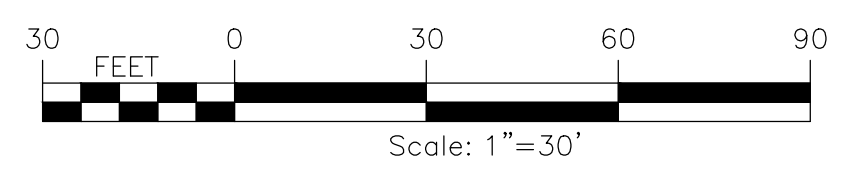
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING NORTH HILL RD & SMITH RD INTERSECTION IMPROVEMENT	
DRAWING NO. <h1>R-5</h1>		SHEET 46 OF 81	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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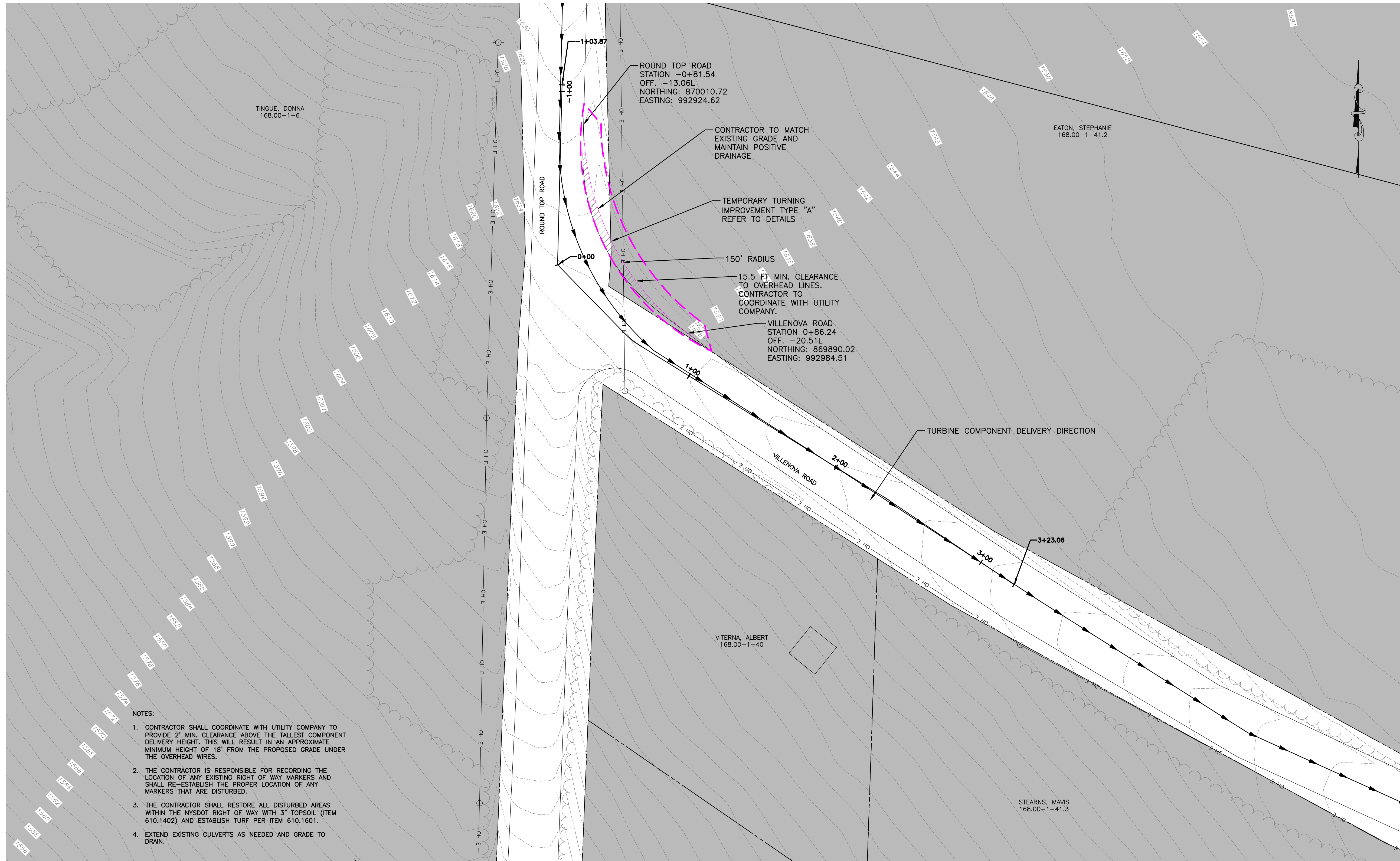
- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
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 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE NYS DOT RIGHT OF WAY WITH 3" TOPSOIL (ITEM 610.1402) AND ESTABLISH TURF PER ITEM 610.1601.
 4. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

ROUND TOP RD & POPE HILL RD INTERSECTION IMPROVEMENT
 PLAN VIEW
 SCALE: 22X34 1"=30'



PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING ROUND TOP RD & POPE HILL RD INTERSECTION IMPROVEMENT	
DRAWING NO. <h1>R-6</h1>		SHEET 47 OF 81	
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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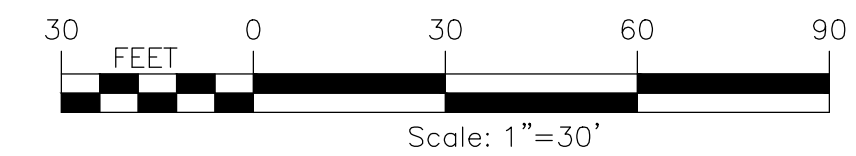


NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
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4. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

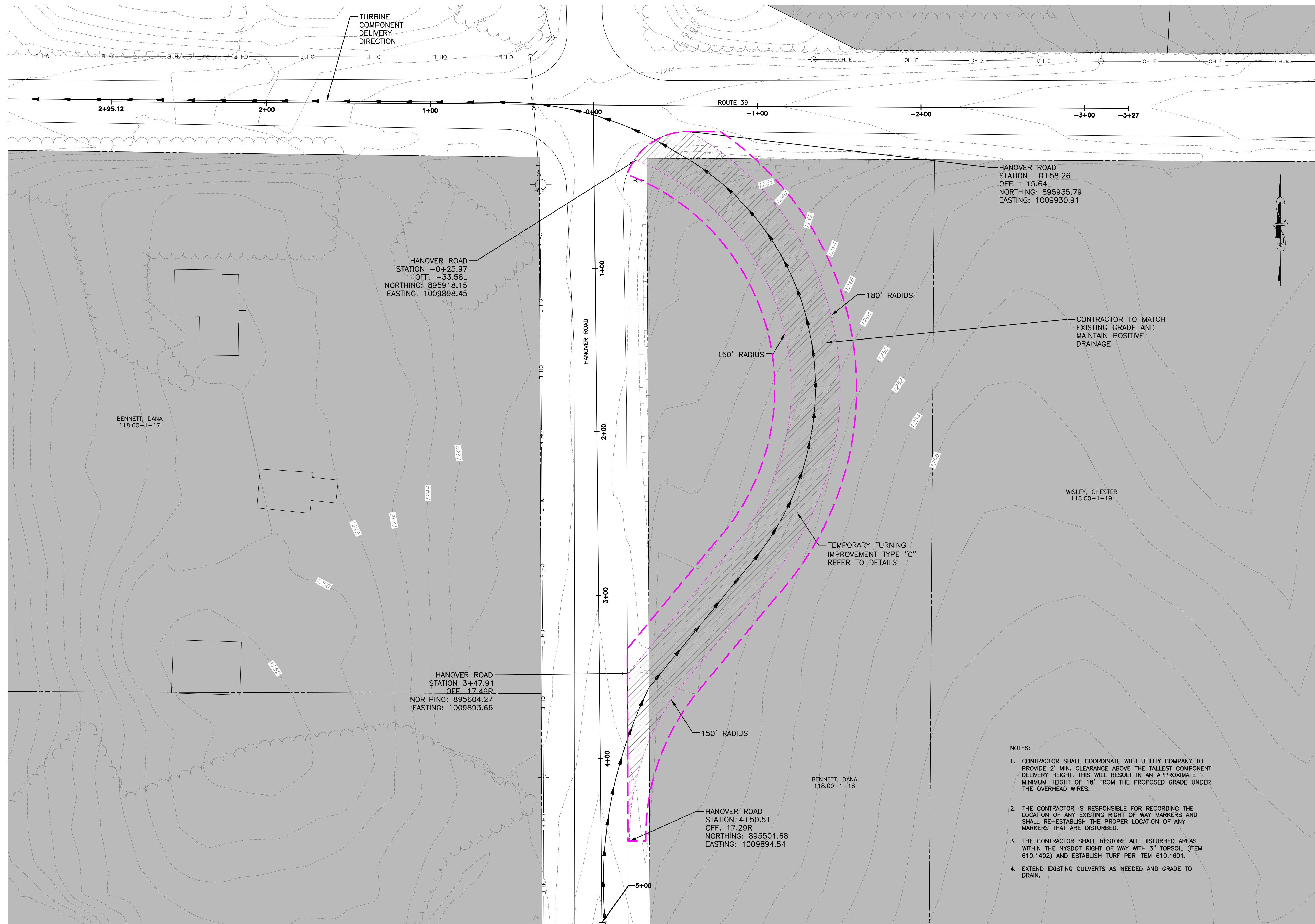
ROUND TOP RD & VILLENOVA RD INTERSECTION IMPROVEMENT
 PLAN VIEW

SCALE: 22X34 1"=30'



PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING ROUND TOP RD & VILLENOVA RD INTERSECTION IMPROVEMENT	
DRAWING NO. <h1>R-7</h1>		SHEET 48 OF 81	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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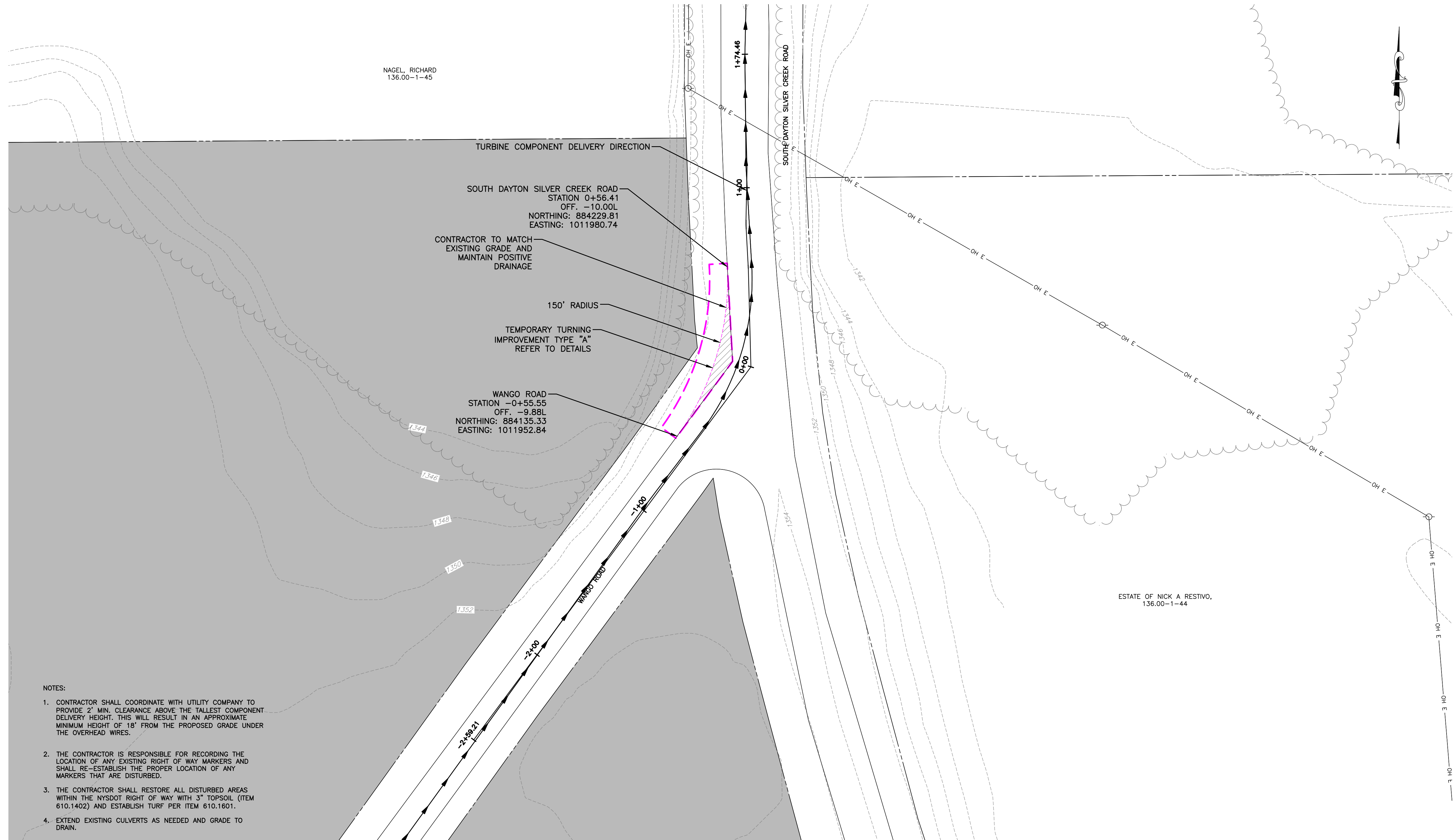


ROUTE 39 & HANOVER RD INTERSECTION IMPROVEMENT
 PLAN VIEW
 SCALE: 22X34 1"=30'

- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PROVIDE 2' MIN. CLEARANCE ABOVE THE TALLEST COMPONENT DELIVERY HEIGHT. THIS WILL RESULT IN AN APPROXIMATE MINIMUM HEIGHT OF 18' FROM THE PROPOSED GRADE UNDER THE OVERHEAD WIRES.
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 4. EXTEND EXISTING CULVERTS AS NEEDED AND GRADE TO DRAIN.

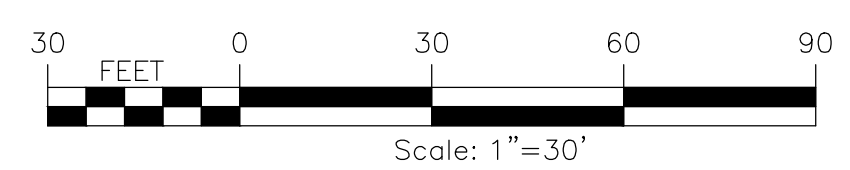
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING ROUTE 39 & HANOVER RD INTERSECTION IMPROVEMENT	
DRAWING NO. R-8		SHEET 49 OF 81	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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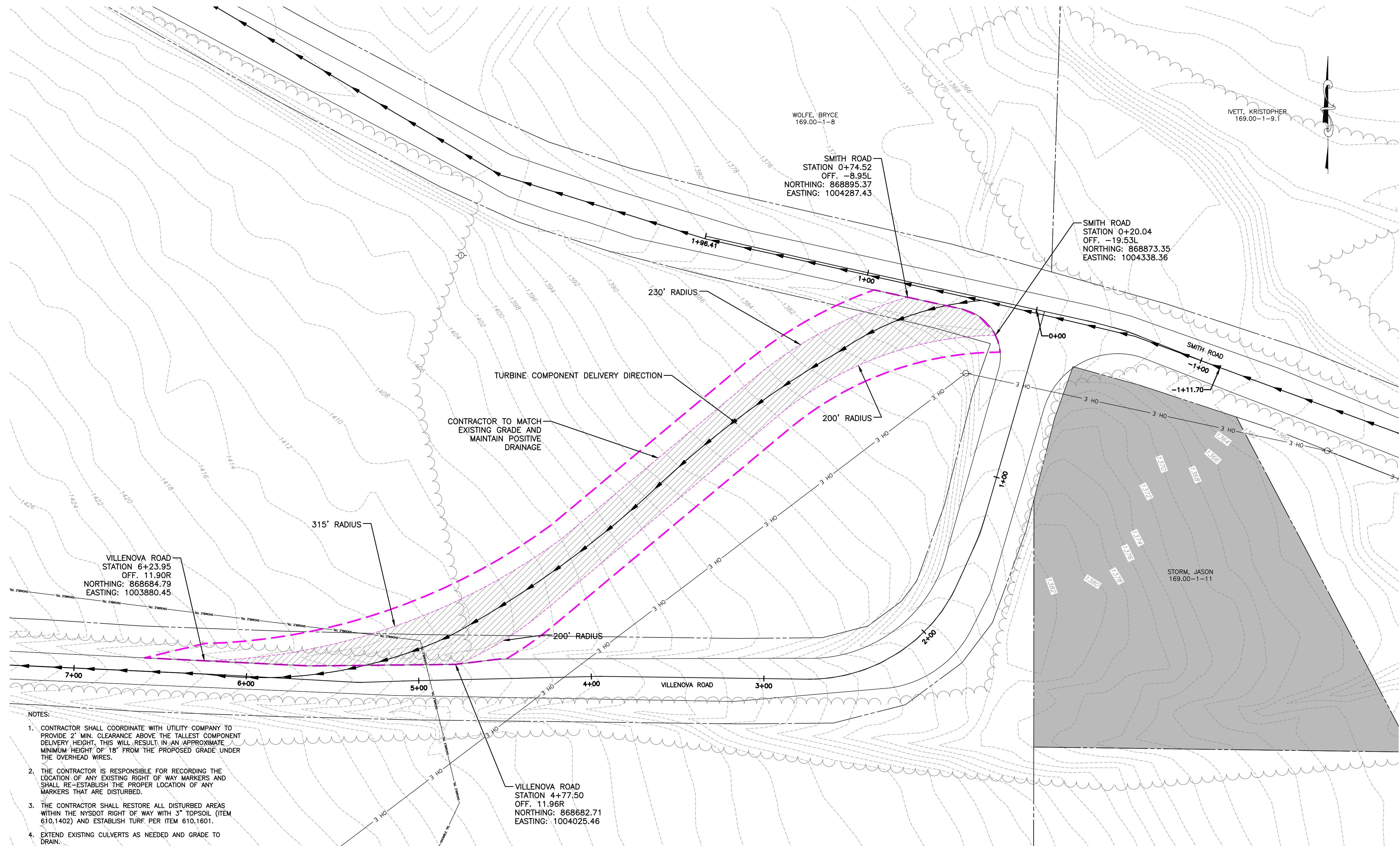
- NOTES:
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SOUTH DAYTON SILVER CREEK RD & WANGO RD INTERSECTION IMPROVEMENT
 PLAN VIEW
 SCALE: 22X34 1"=30'



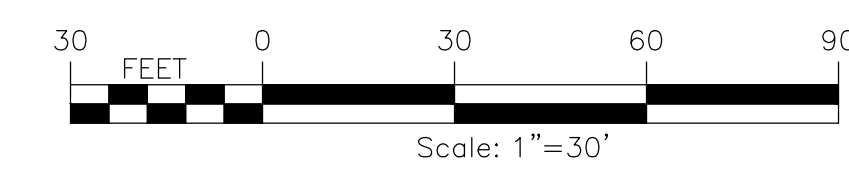
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING SOUTH DAYTON SILVER CREEK RD & WANGO RD INTERSECTION IMPROVEMENT	
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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SHEET 50 OF 81			

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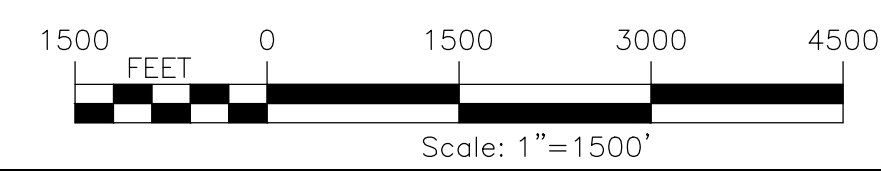
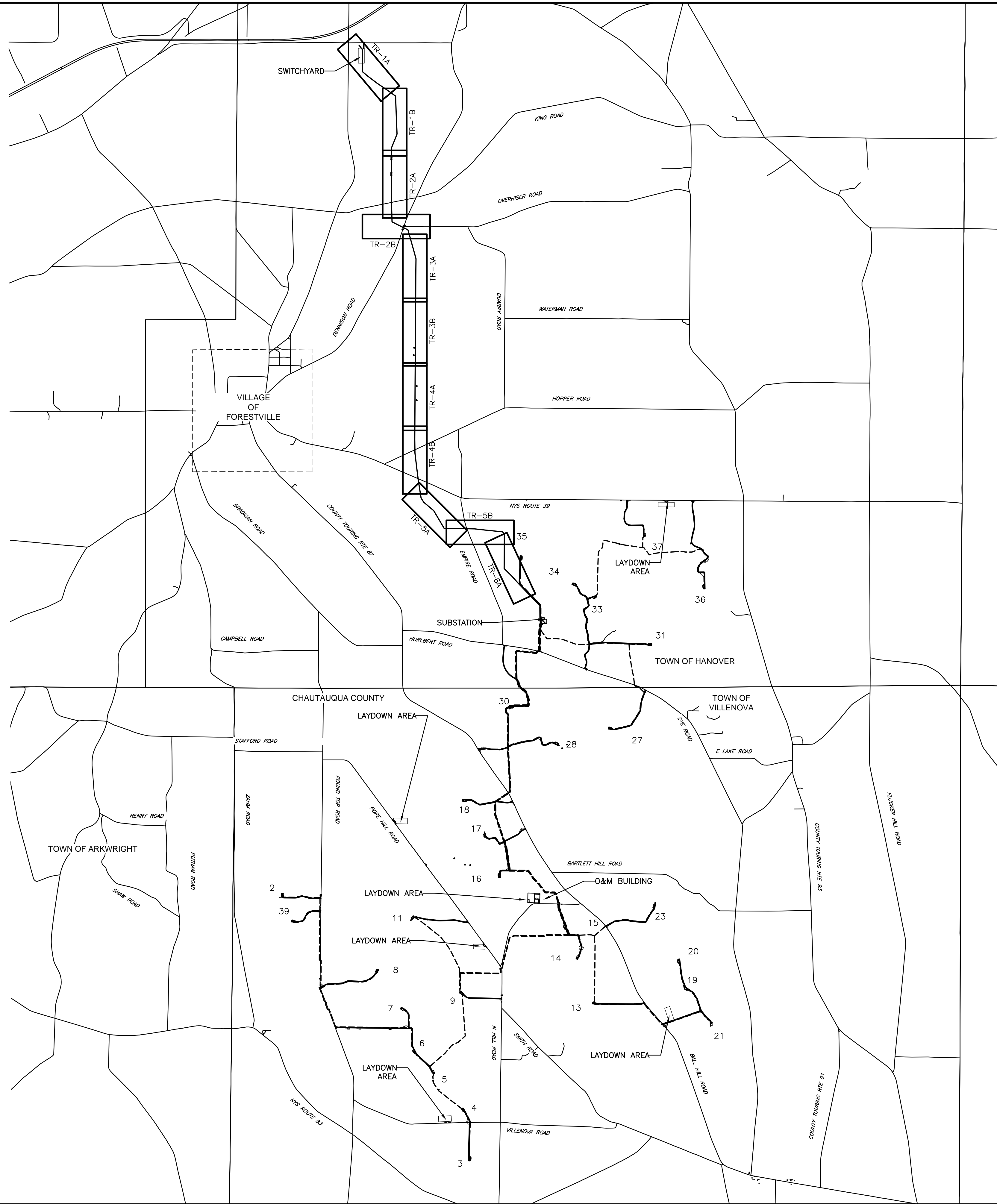
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VILLENOVA RD & SMITH RD INTERSECTION IMPROVEMENT
 PLAN VIEW
 SCALE: 22X34 1"=30'



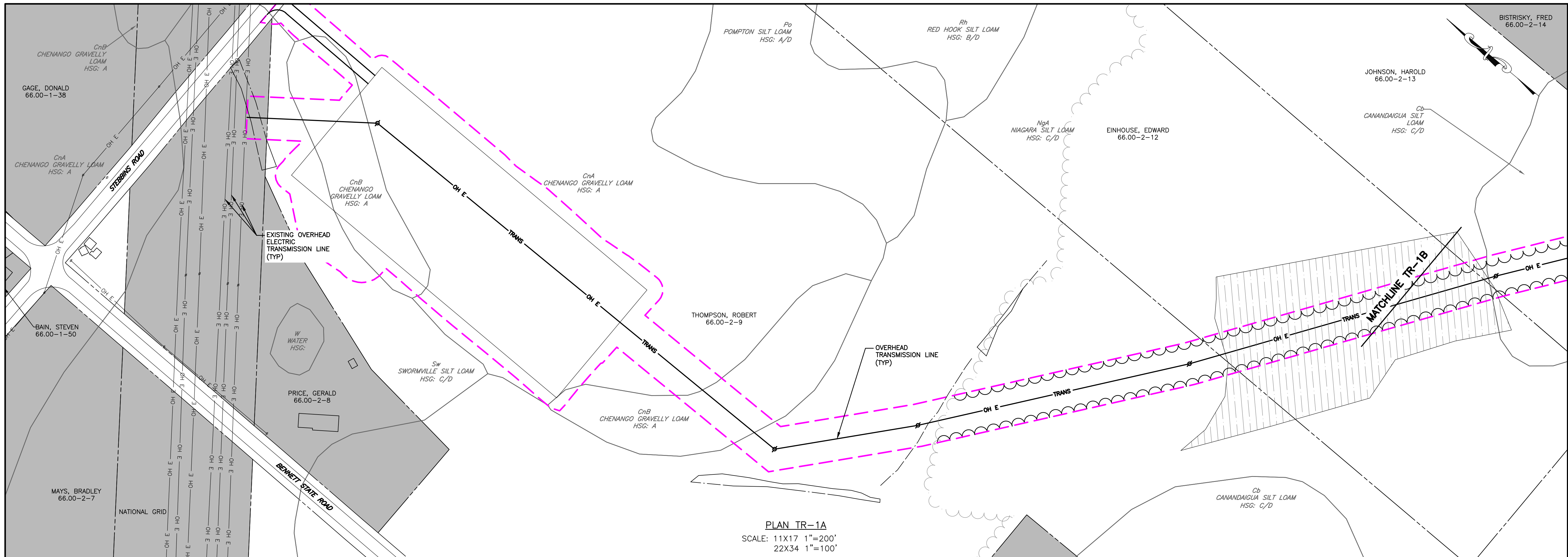
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PROJECT TITLE VILLENOVA RD & SMITH RD INTERSECTION IMPROVEMENT		DRAWING NO. R-10		SHEET NO. 51 OF 81		DATE 10/14/2016		BY SM	

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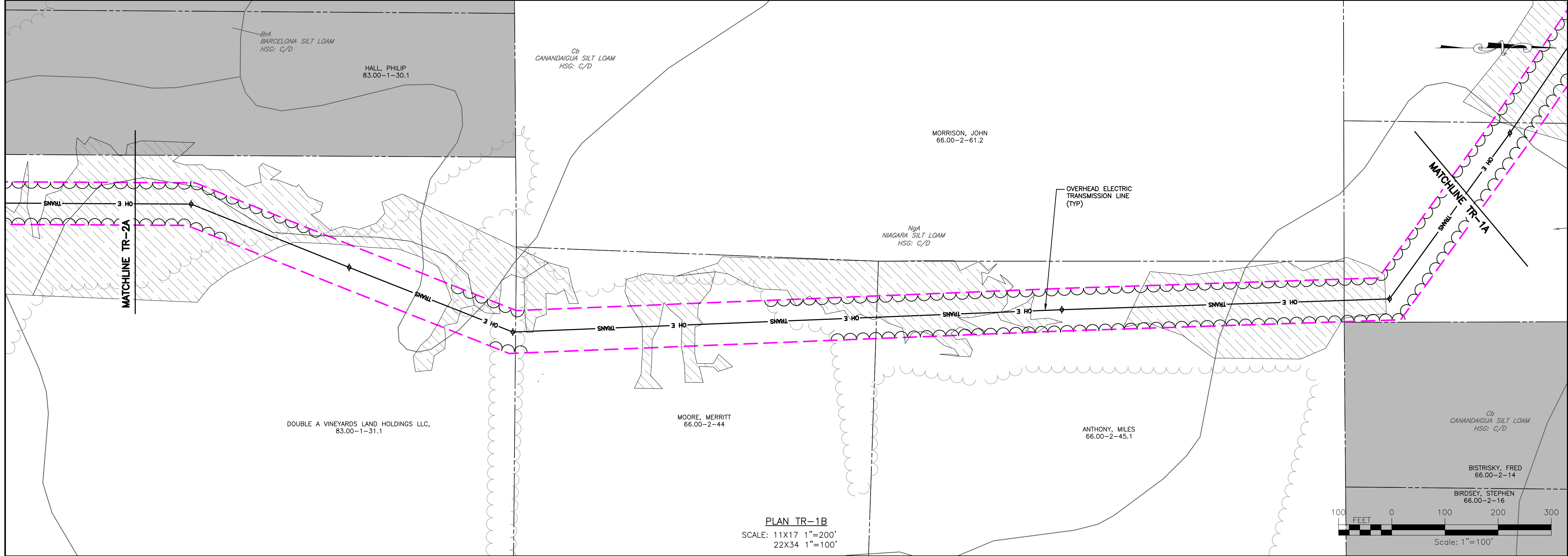


PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING OVERHEAD TRANSMISSION LINE PLANS INDEX	
DRAWING NO. IND-TR		SHEET 52 OF 81	
PROJECT NO. 150001		ISSUE DATE OCT. 2016	
PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK	
SCALE AS SHOWN		AS SHOWN	
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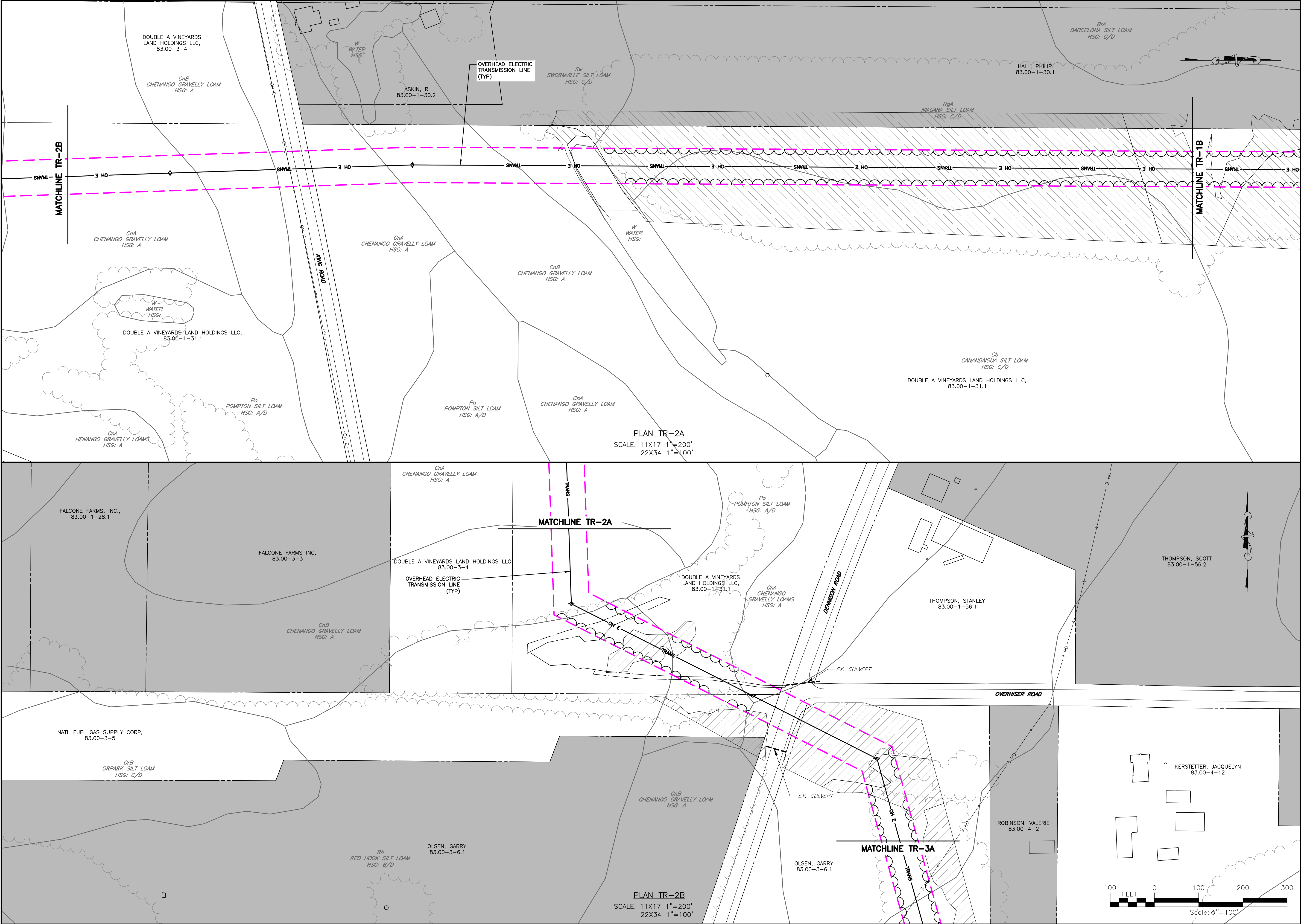
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PLAN TR-1B
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 22X34 1"=100'

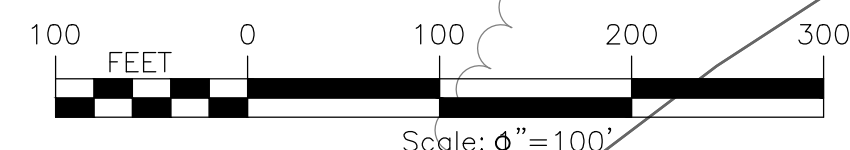
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUGU COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING OVERHEAD TRANSMISSION LINE PLAN		DRAWING NO. TR-1		SHEET 53 OF 81	
PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		DRAWN BY JS, BA		ISSUE DATE OCT. 2016	
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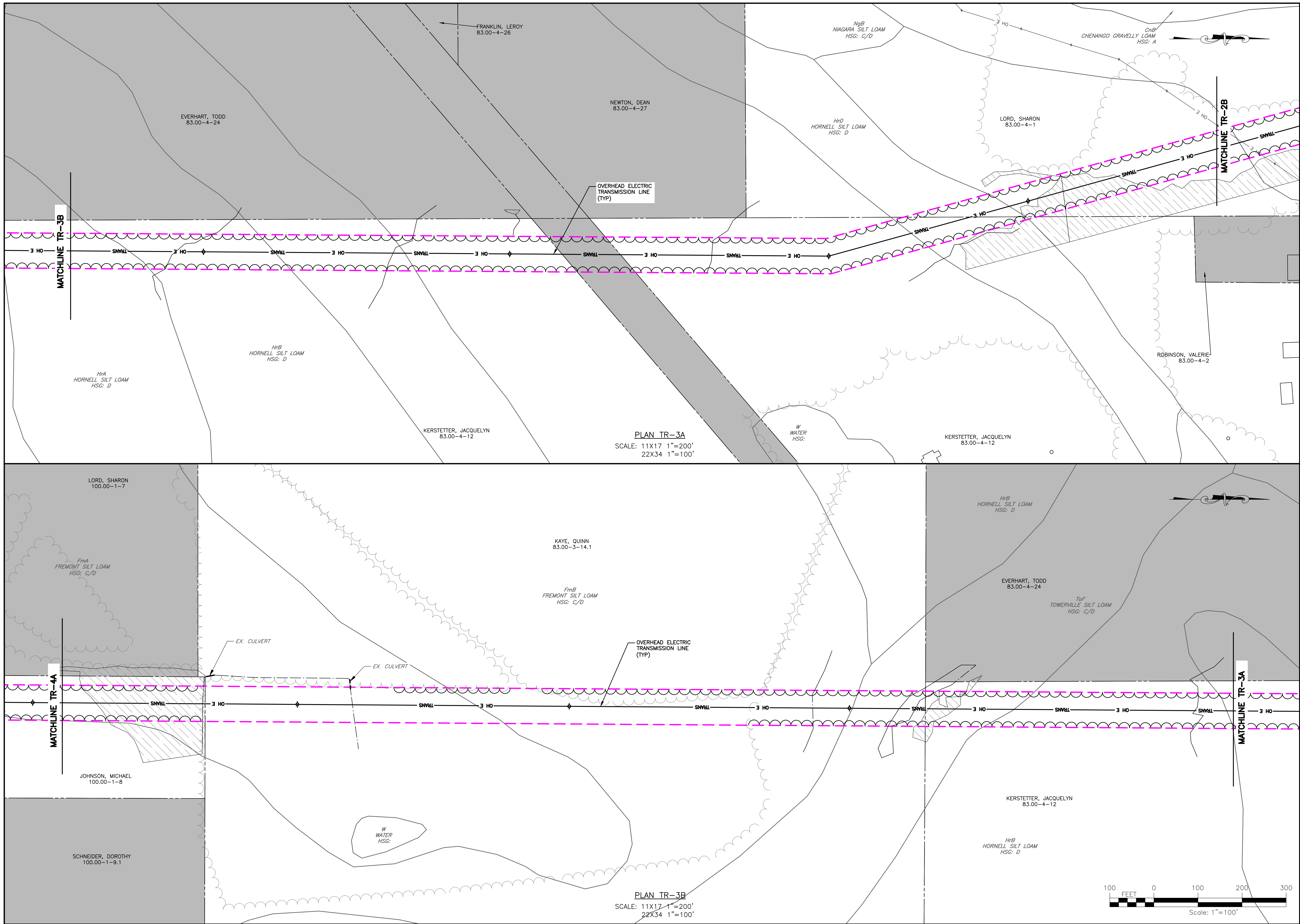
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PLAN TR-2B
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 22X34 1"=100'



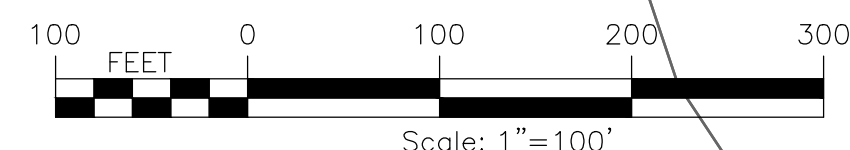
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PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		ISSUE DATE OCT. 2016		DESCRIPTION REV	
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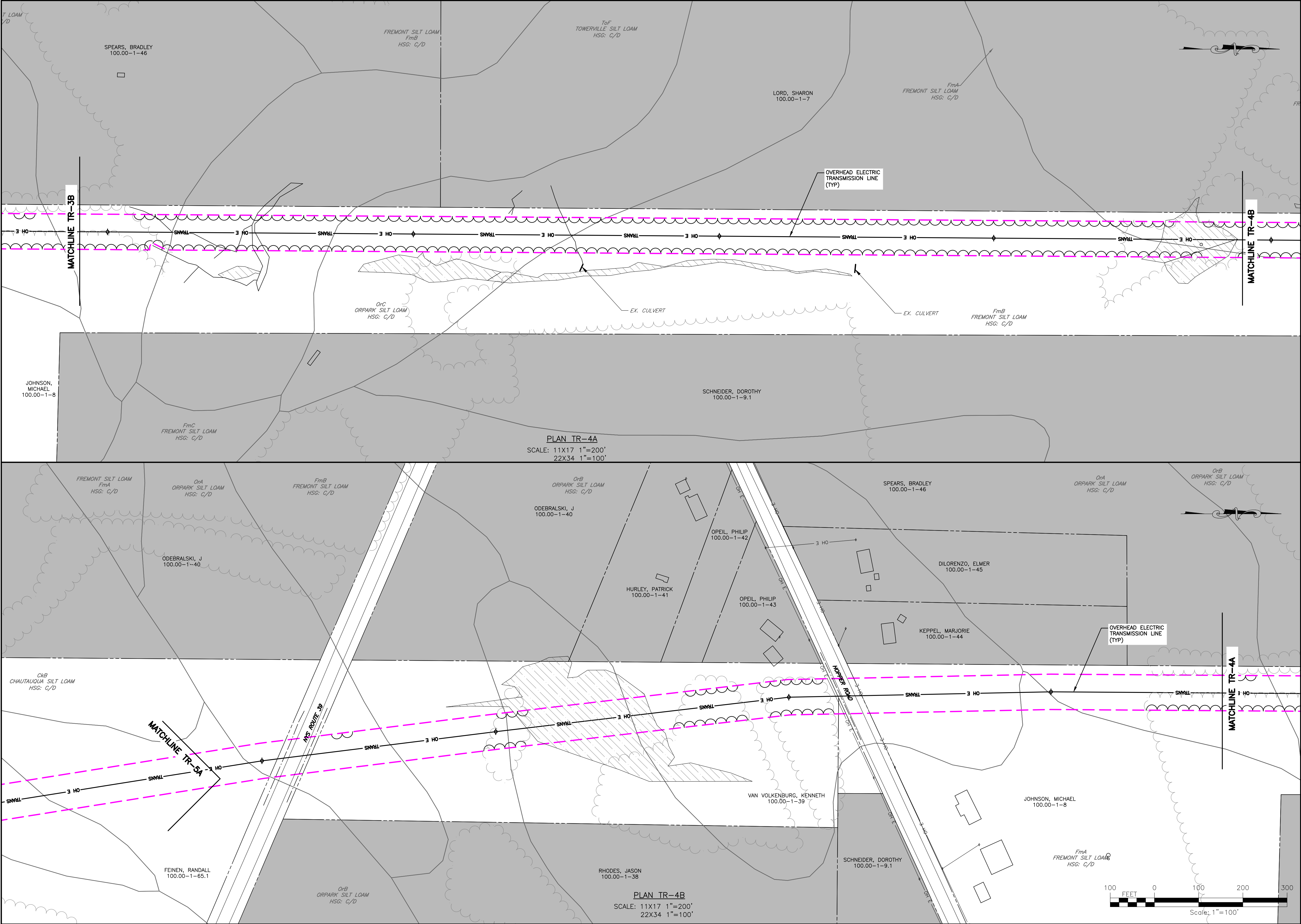
PLAN TR-3A
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PLAN TR-3B
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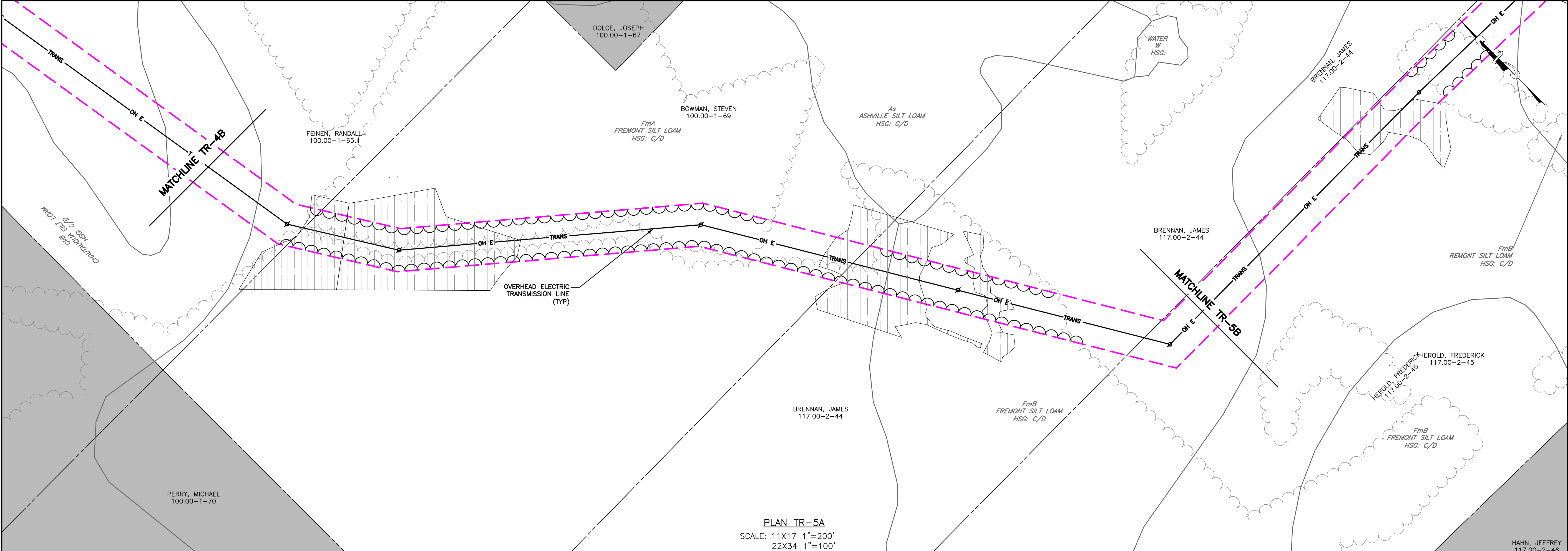
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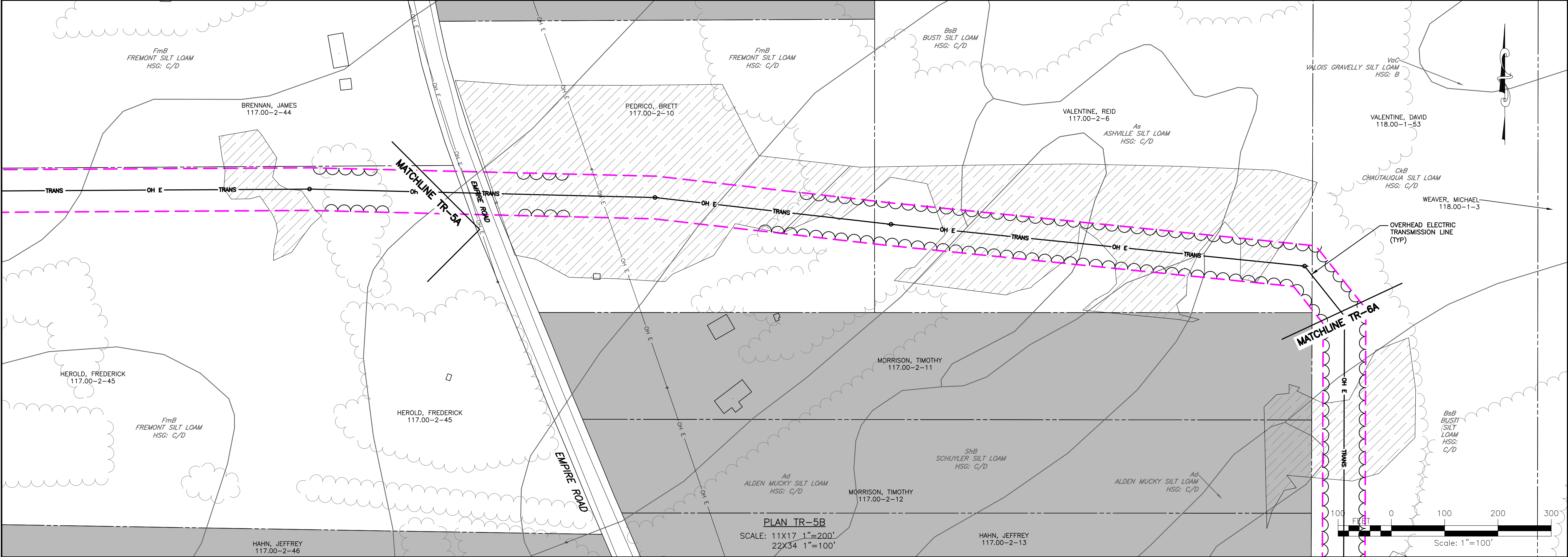
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DRAWING NO. TR-4		SHEET 56 OF 81	
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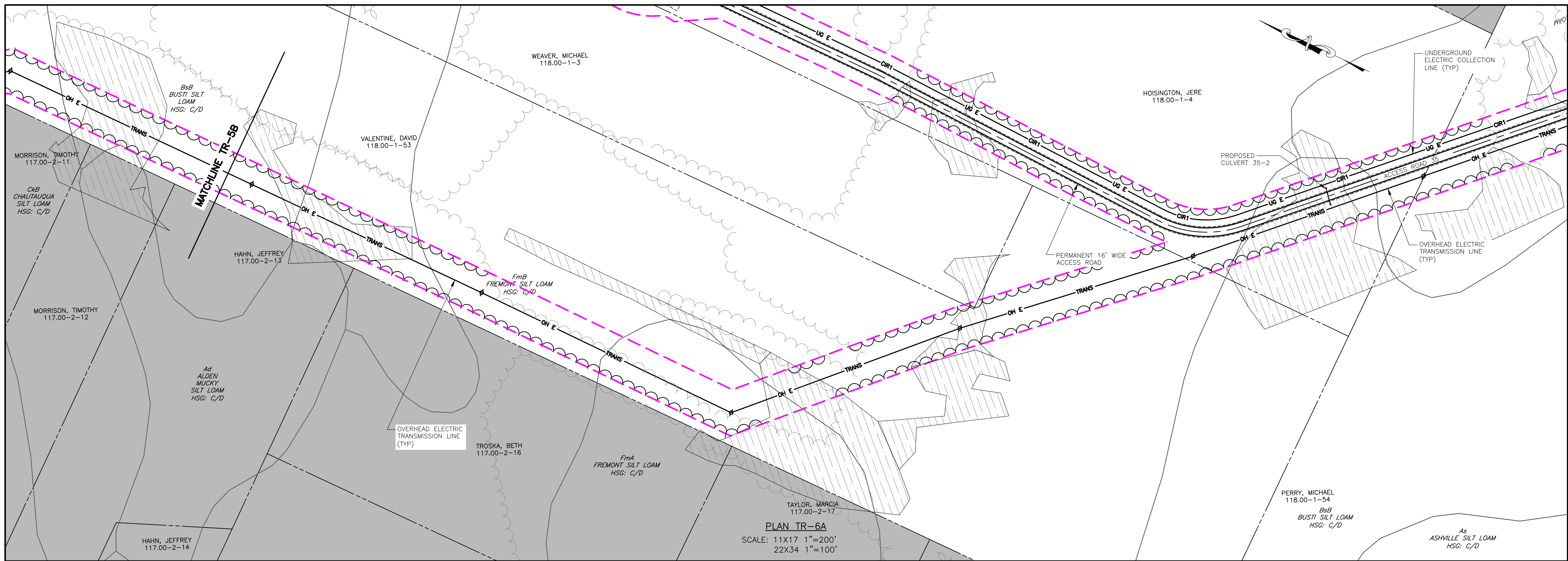
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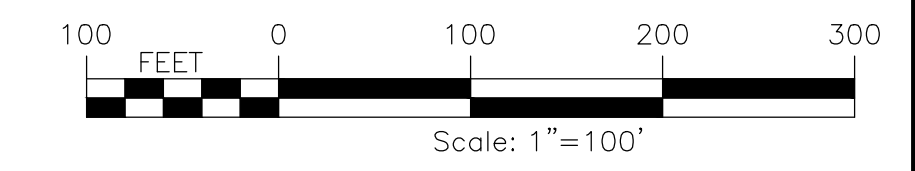
PLAN TR-5B
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DRAWING NO. TR-5	SHEET 57 OF 81
FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY JS, BA SCALE AS SHOWN	ISSUE DATE OCT. 2016
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DESCRIPTION	DATE BY

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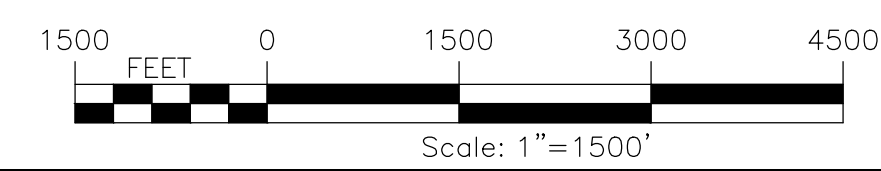
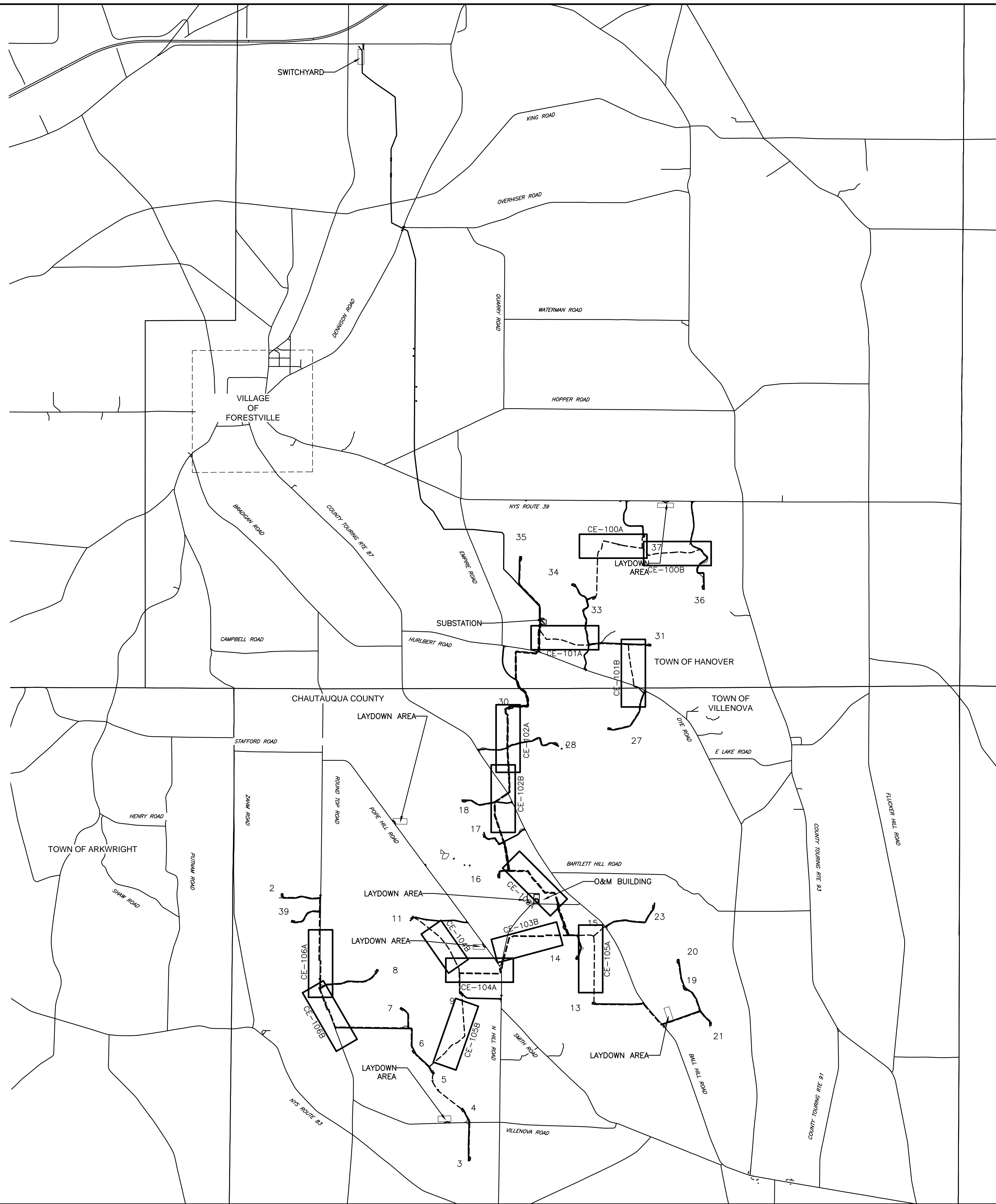


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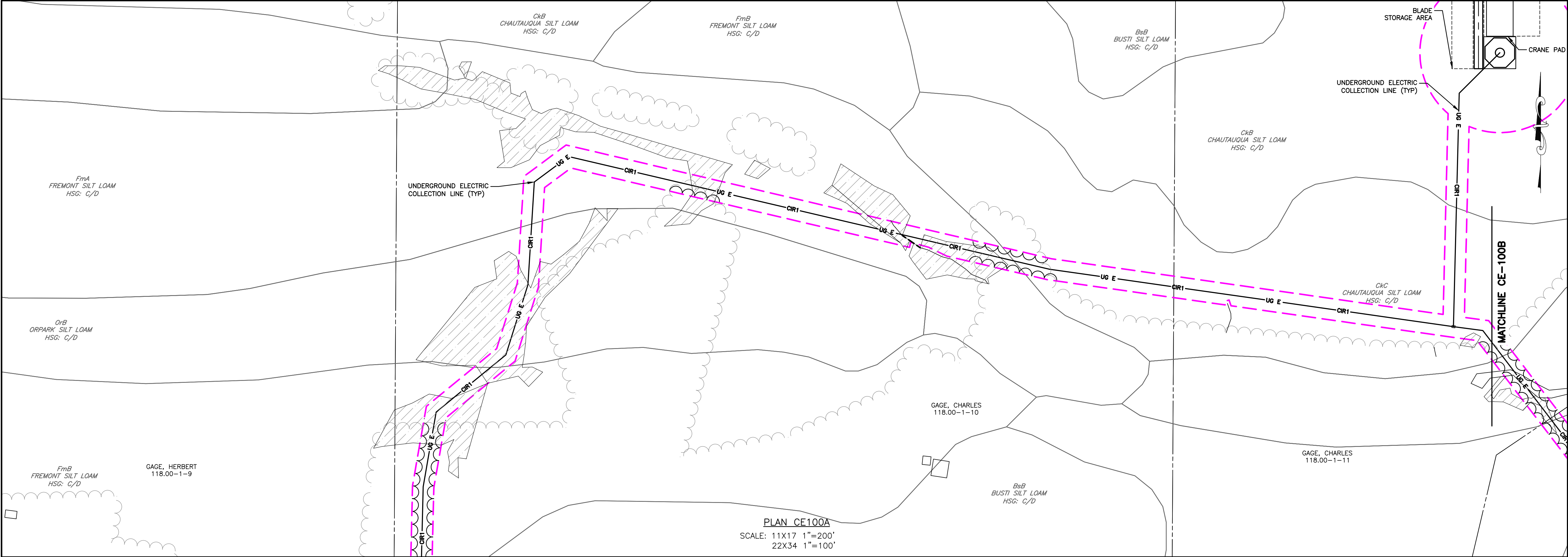
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PROJECT NO. 150001		ISSUE DATE OCT. 2016								
PROJECT MANAGER P. MCCARTHY		DRAWN BY JS, BA								
SCALE AS SHOWN		AS SHOWN								
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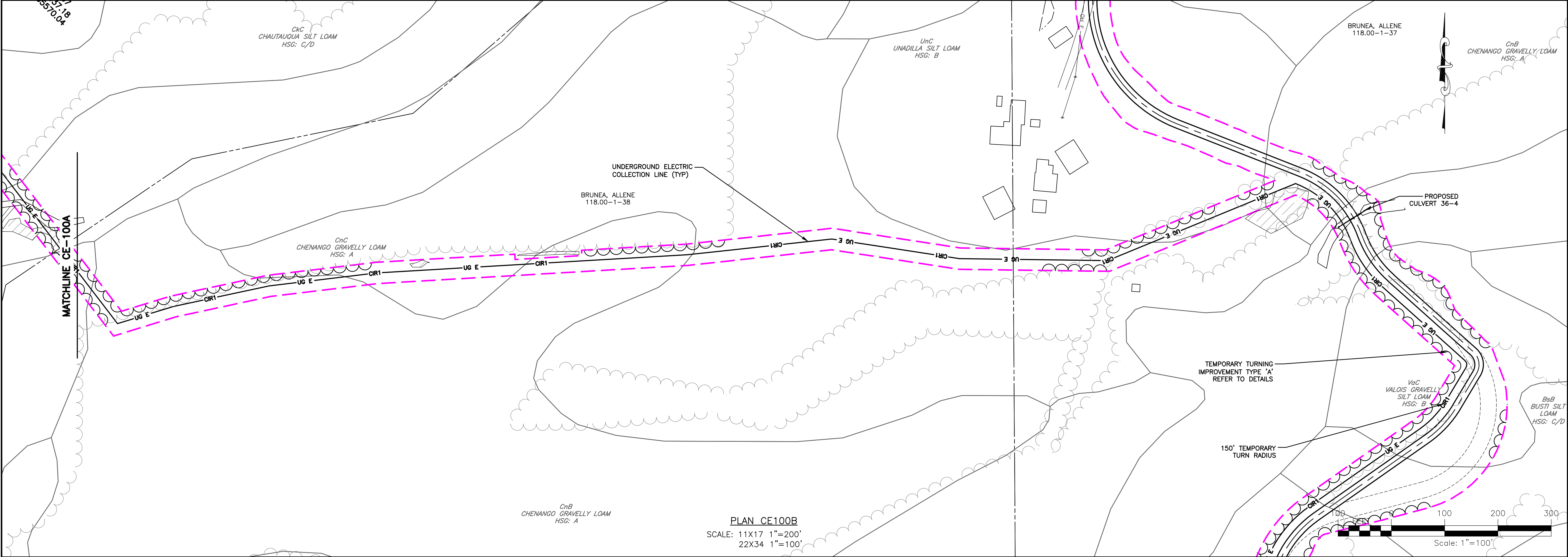


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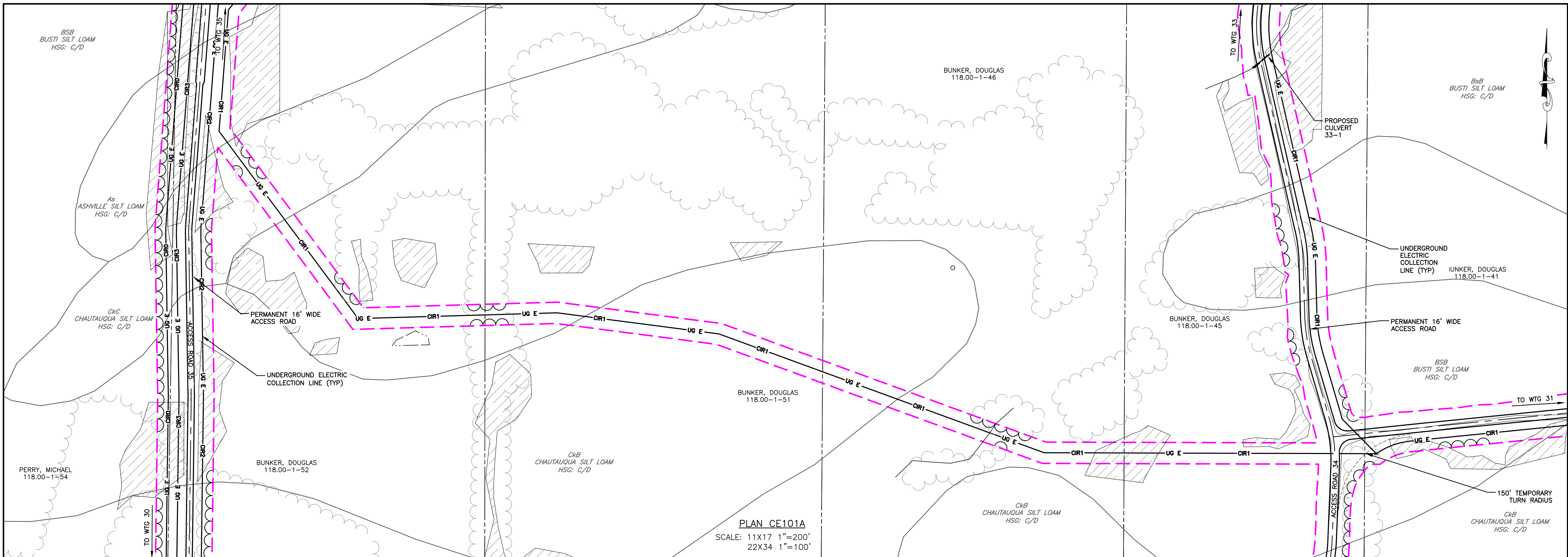


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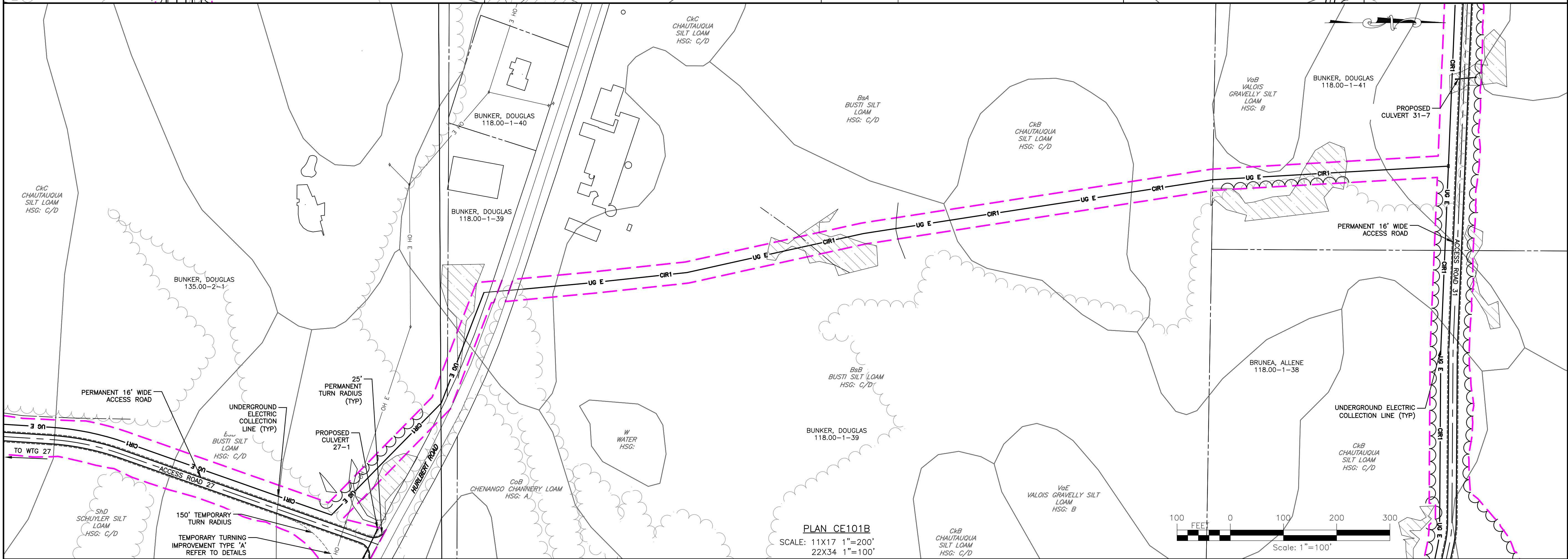


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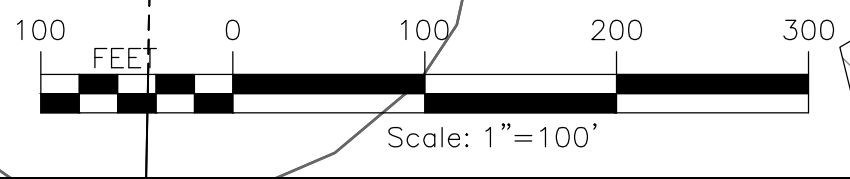
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PROJECT NO. 150001		ISSUE DATE OCT. 2016	
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PLAN CE101A
SCALE: 11X17 1"=200'
22X34 1"=100'



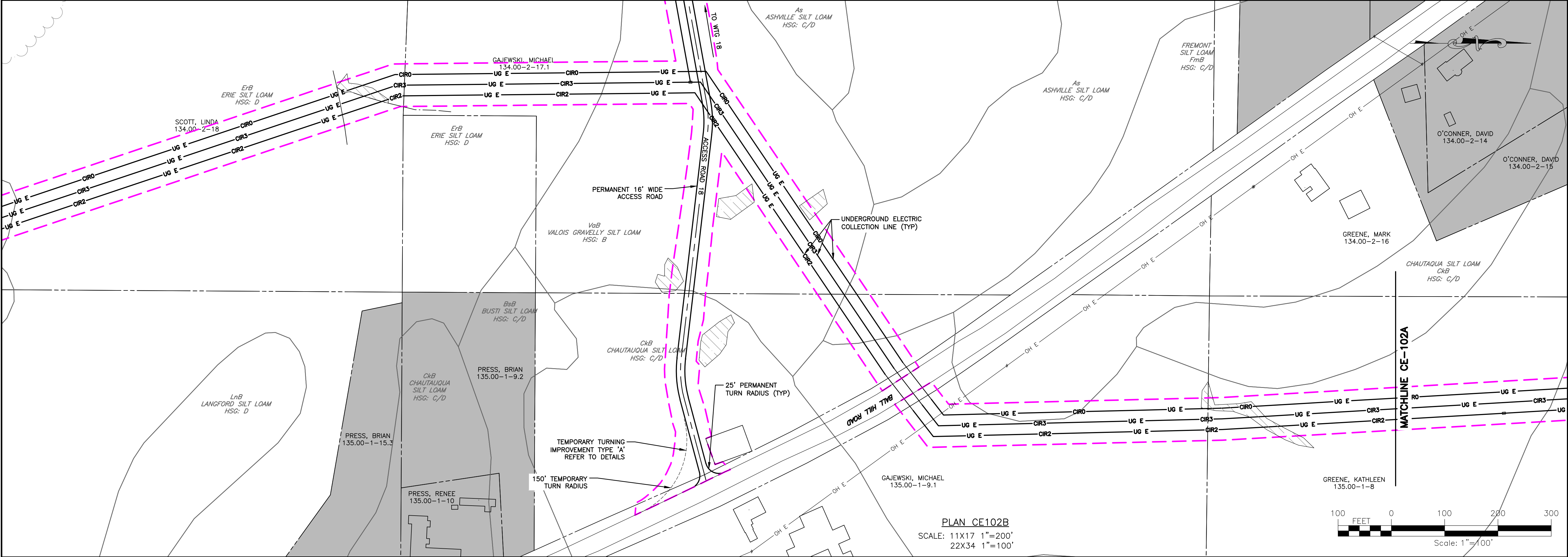
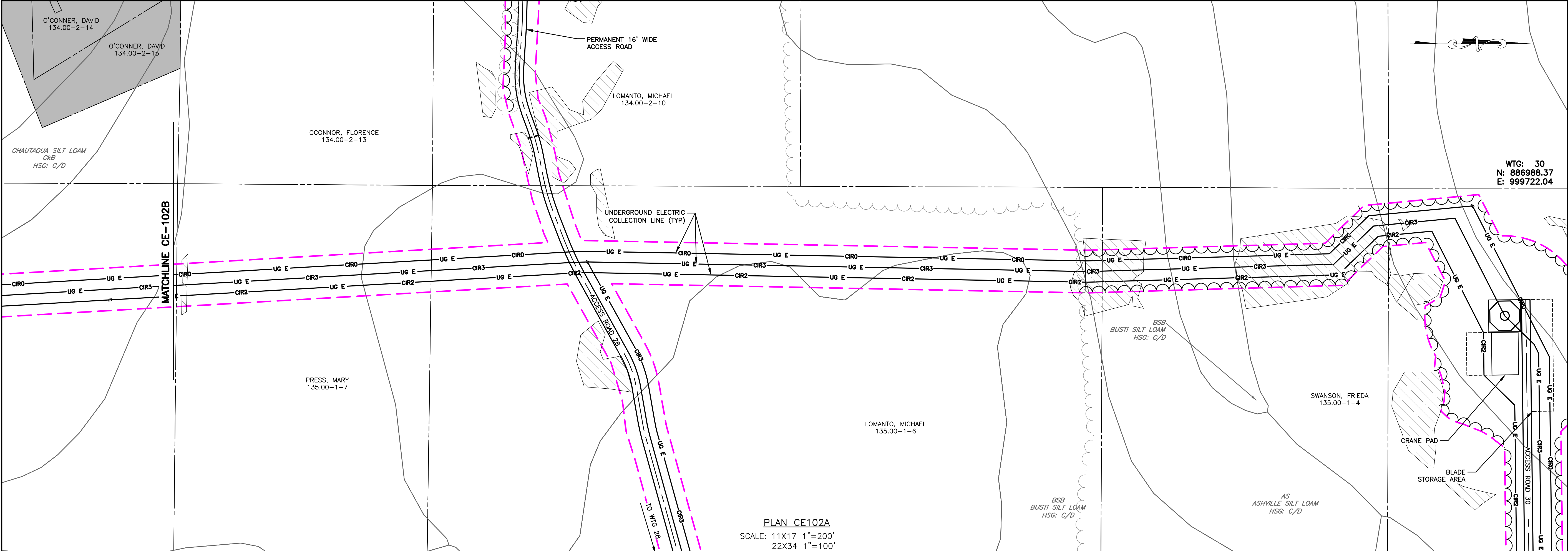
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<p>DRAWING NO. CE-101</p>	<p>SHEET 61 OF 81</p>																																
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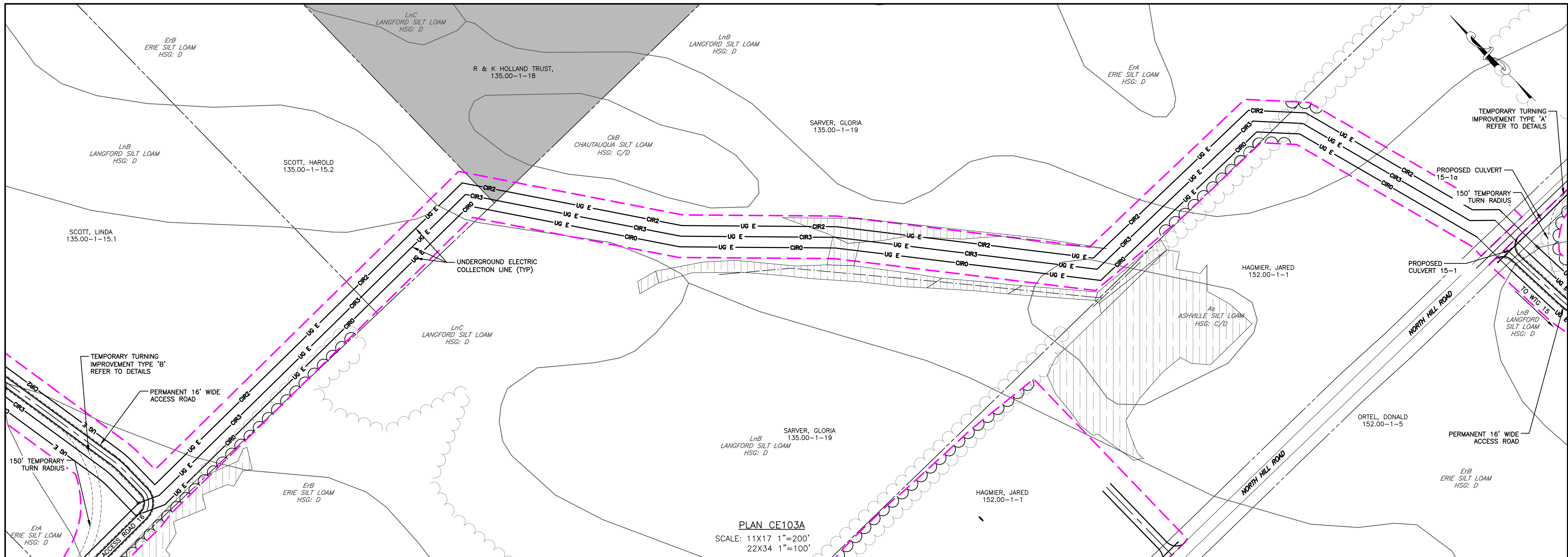
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PROJECT
 BALL HILL WIND FARM
 TOWNS OF HANOVER & VILLENOVA
 CHAUTAUQUA COUNTY, NY
 PRELIMINARY PLANS

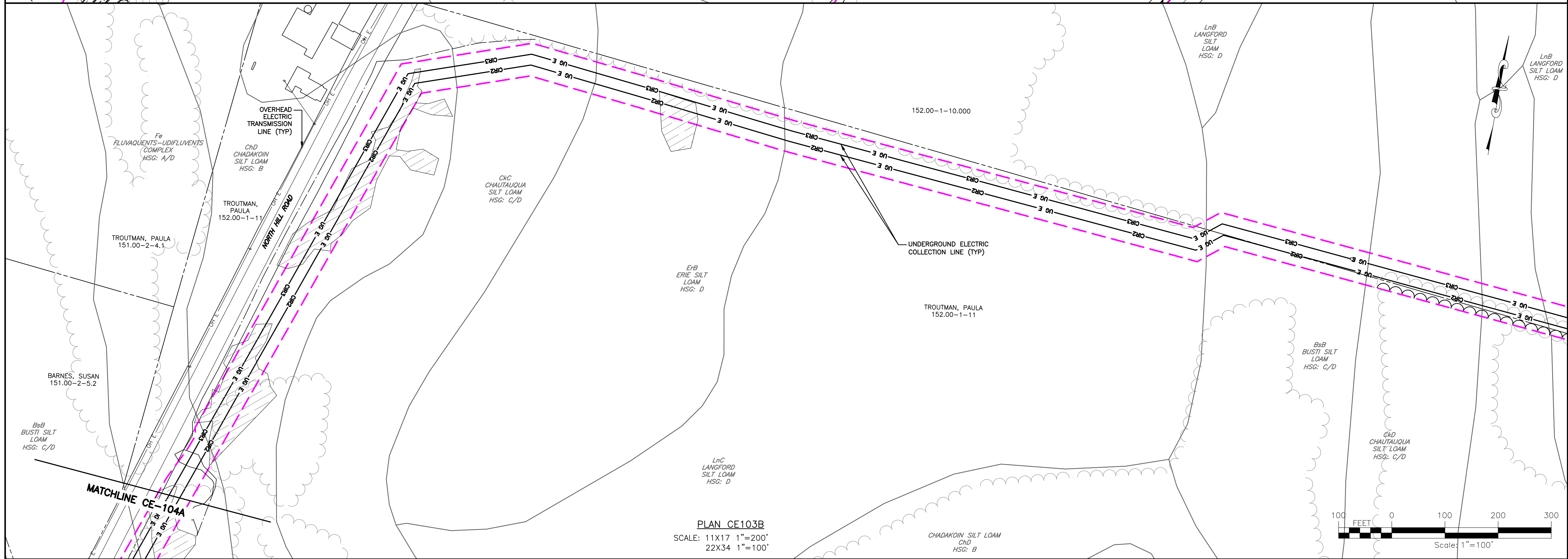
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DRAWING NO.
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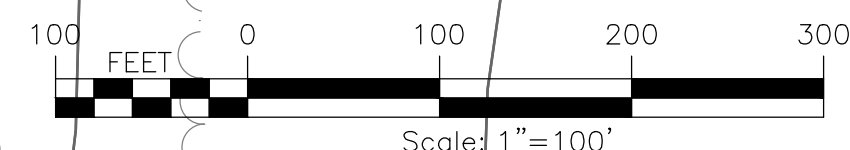
SHEET 62 OF 81



PLAN CE103A
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PLAN CE103B
SCALE: 11X17 1"=200'
22X34 1"=100'

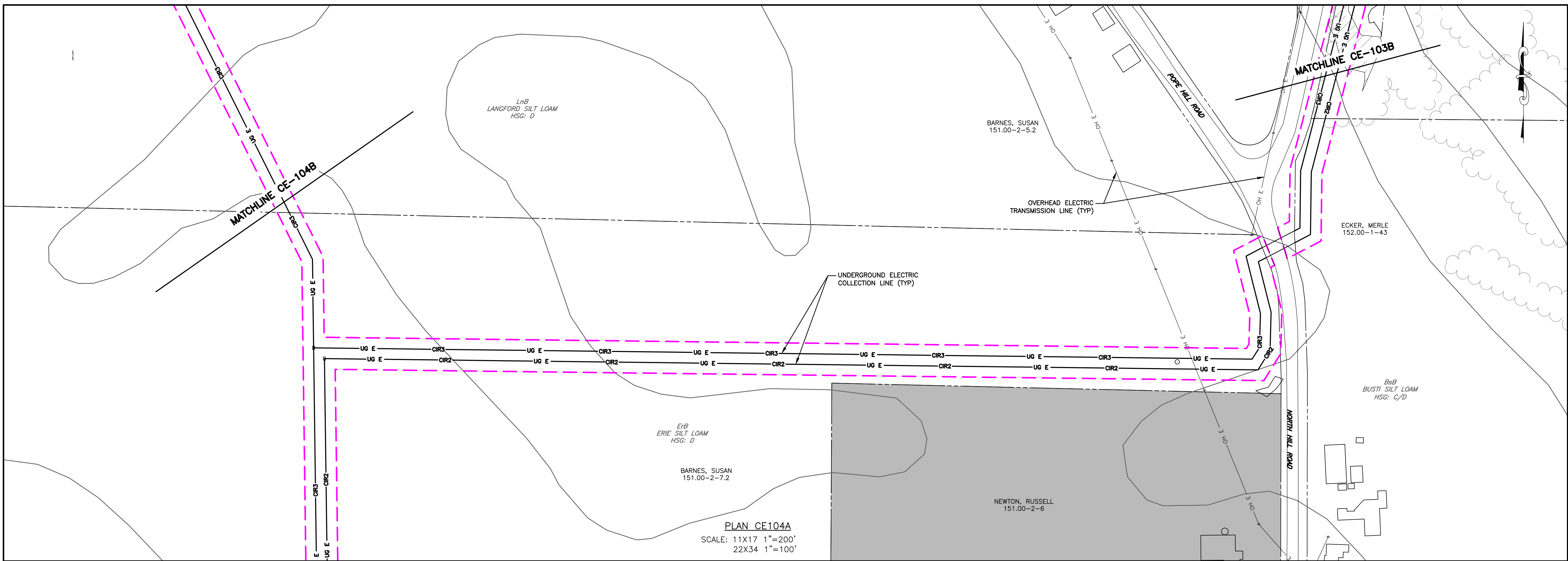


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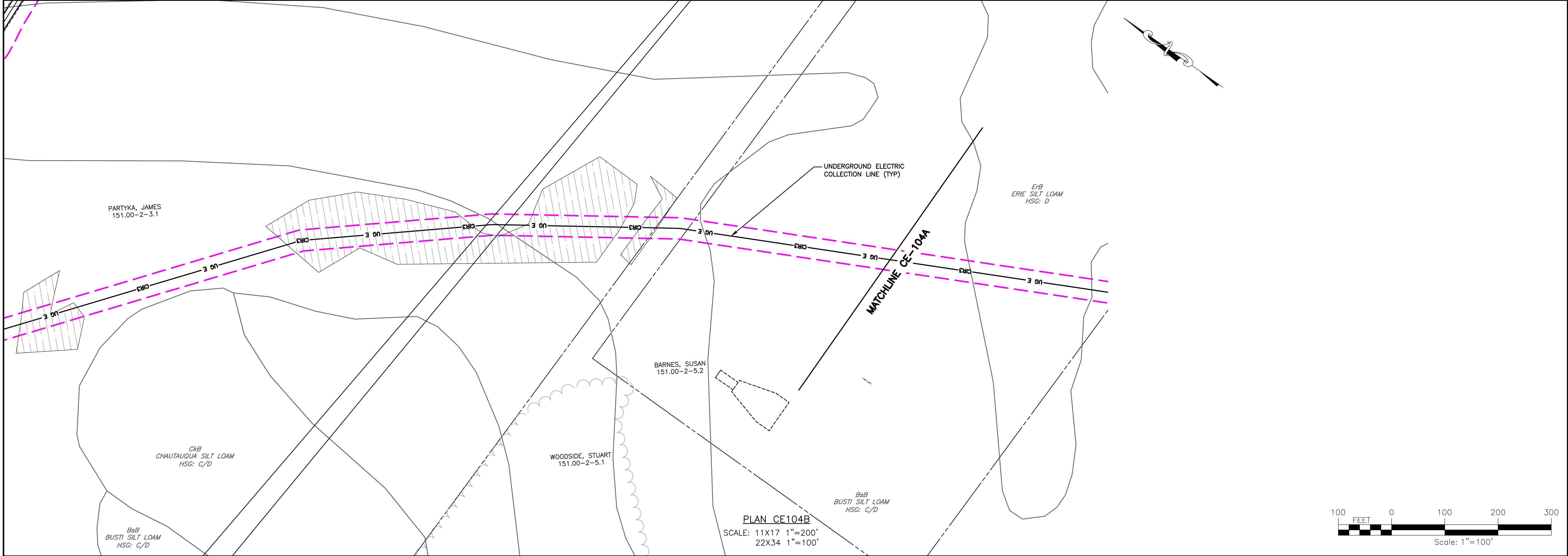
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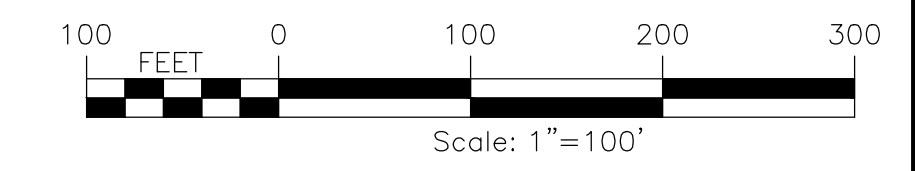
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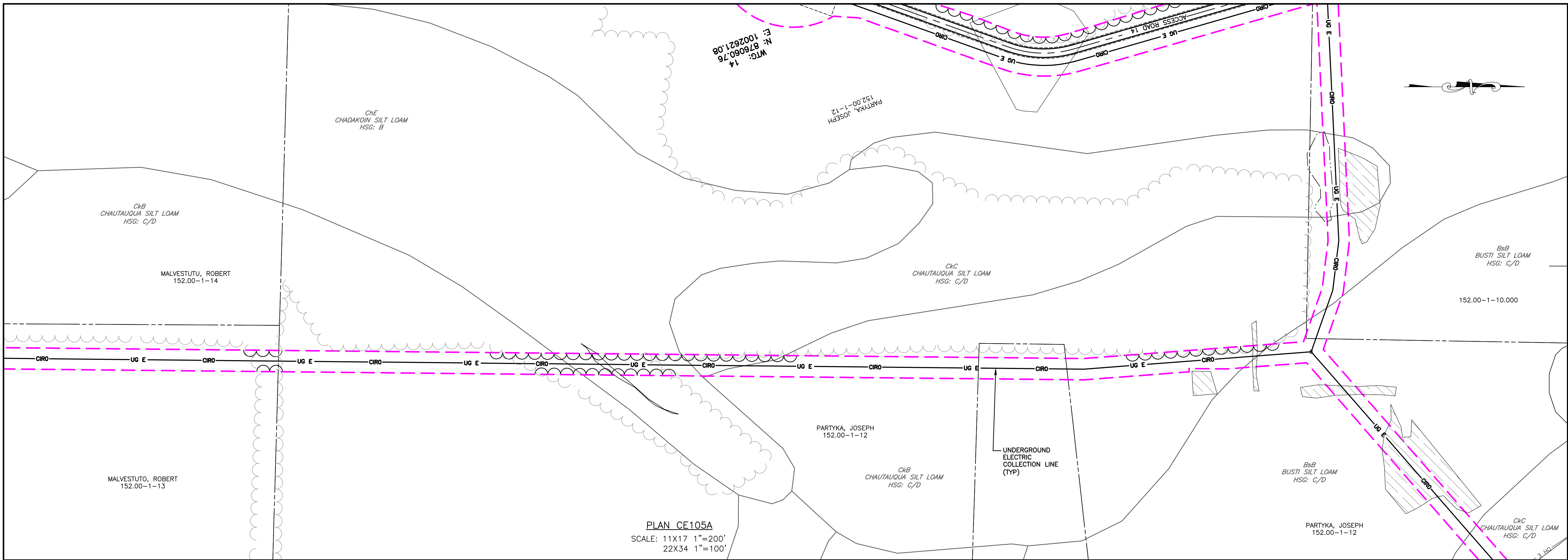


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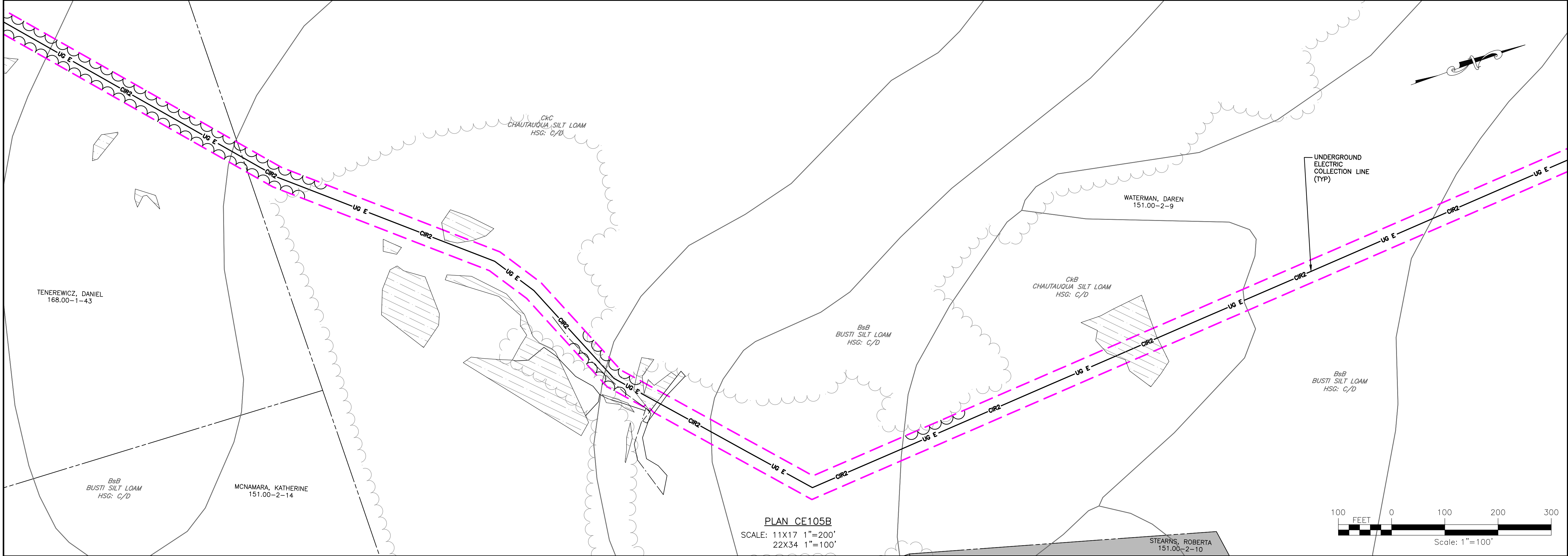


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PLAN CE105A
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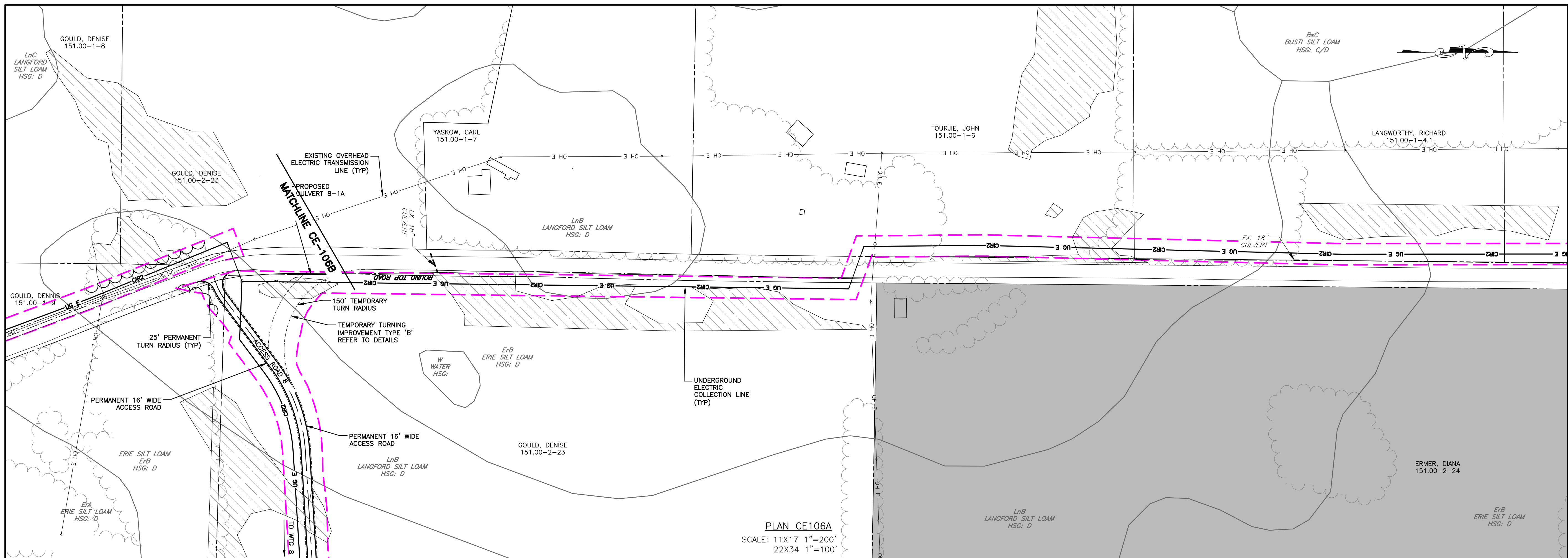
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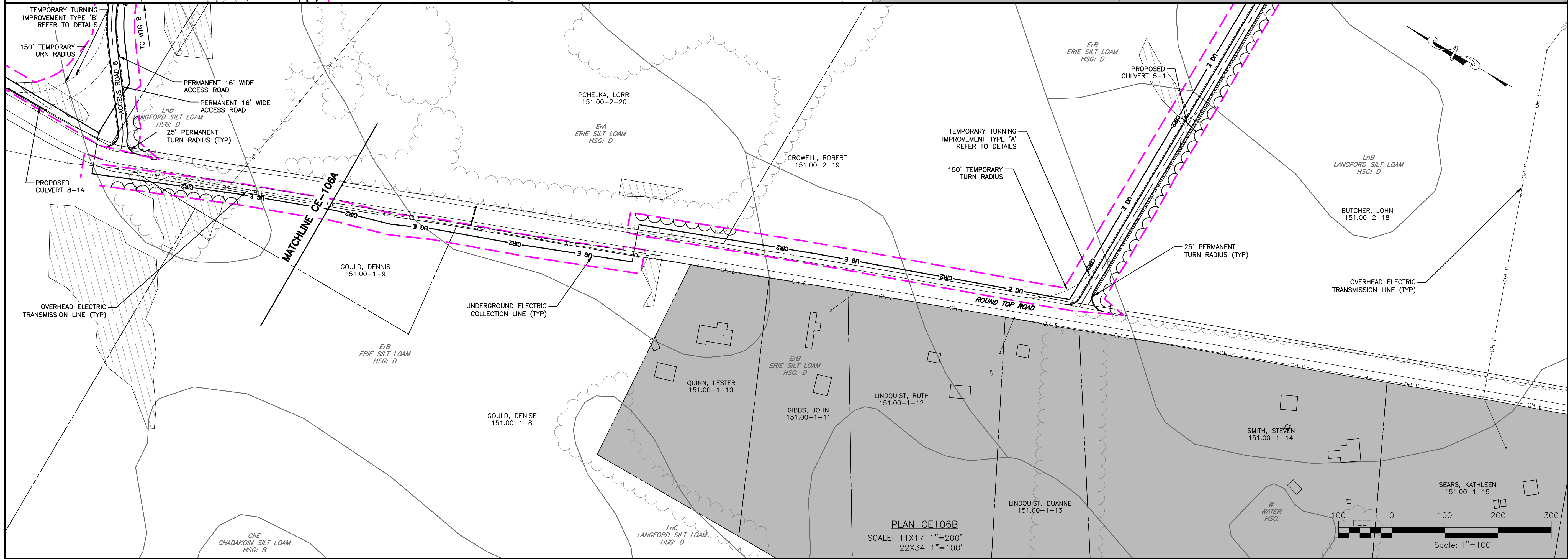
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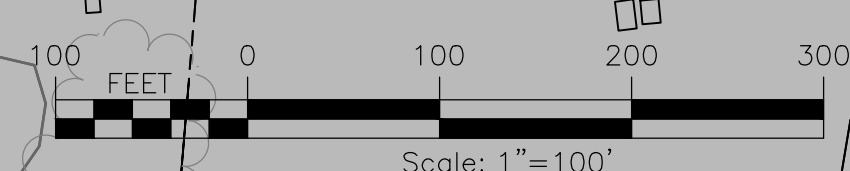
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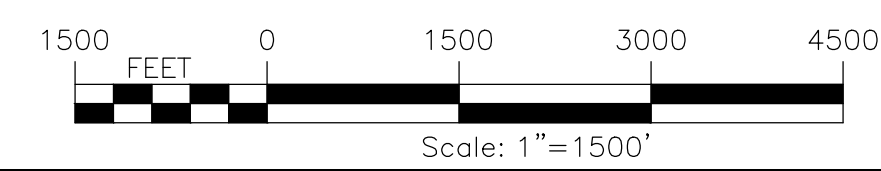
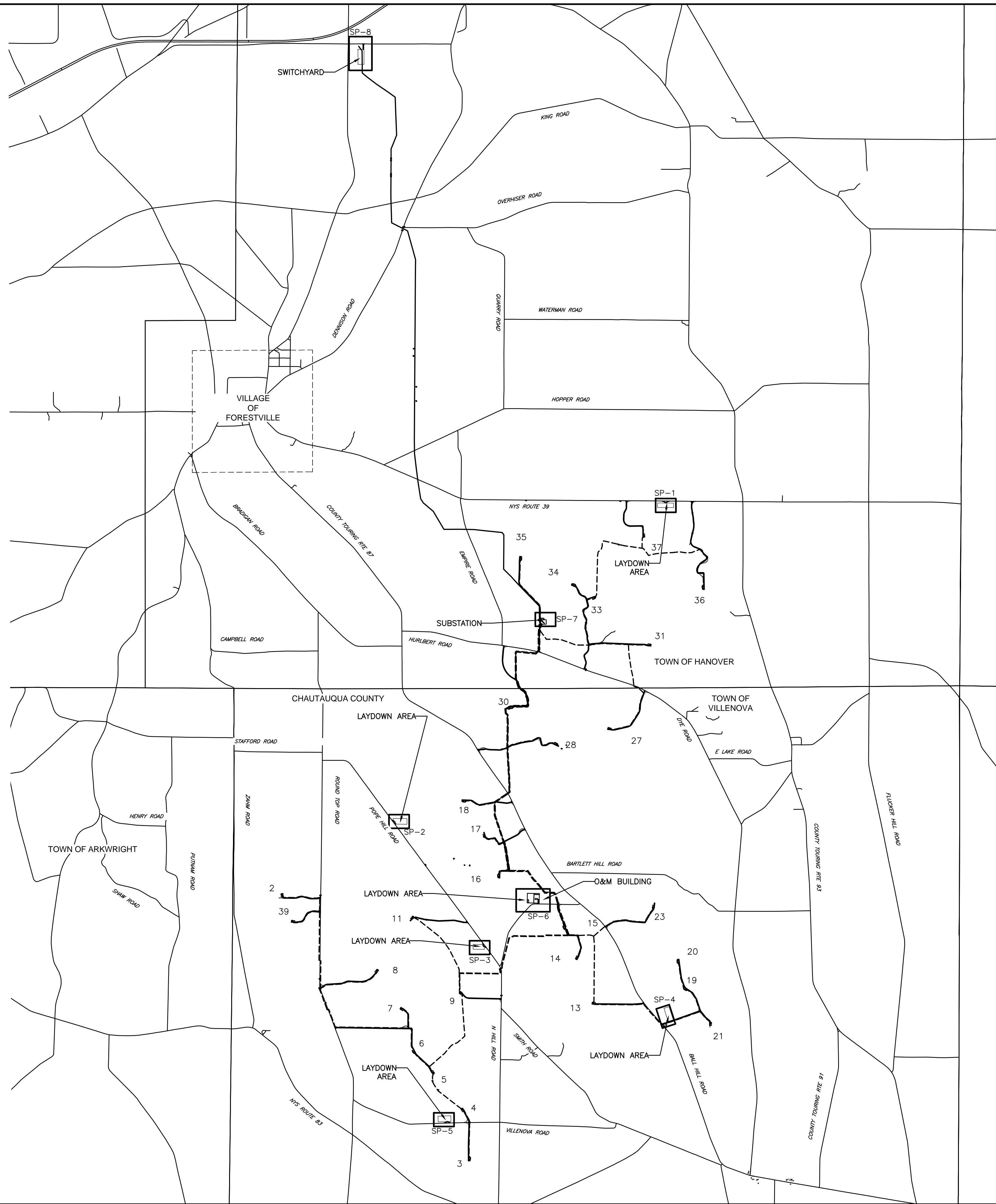


PLAN CE106B
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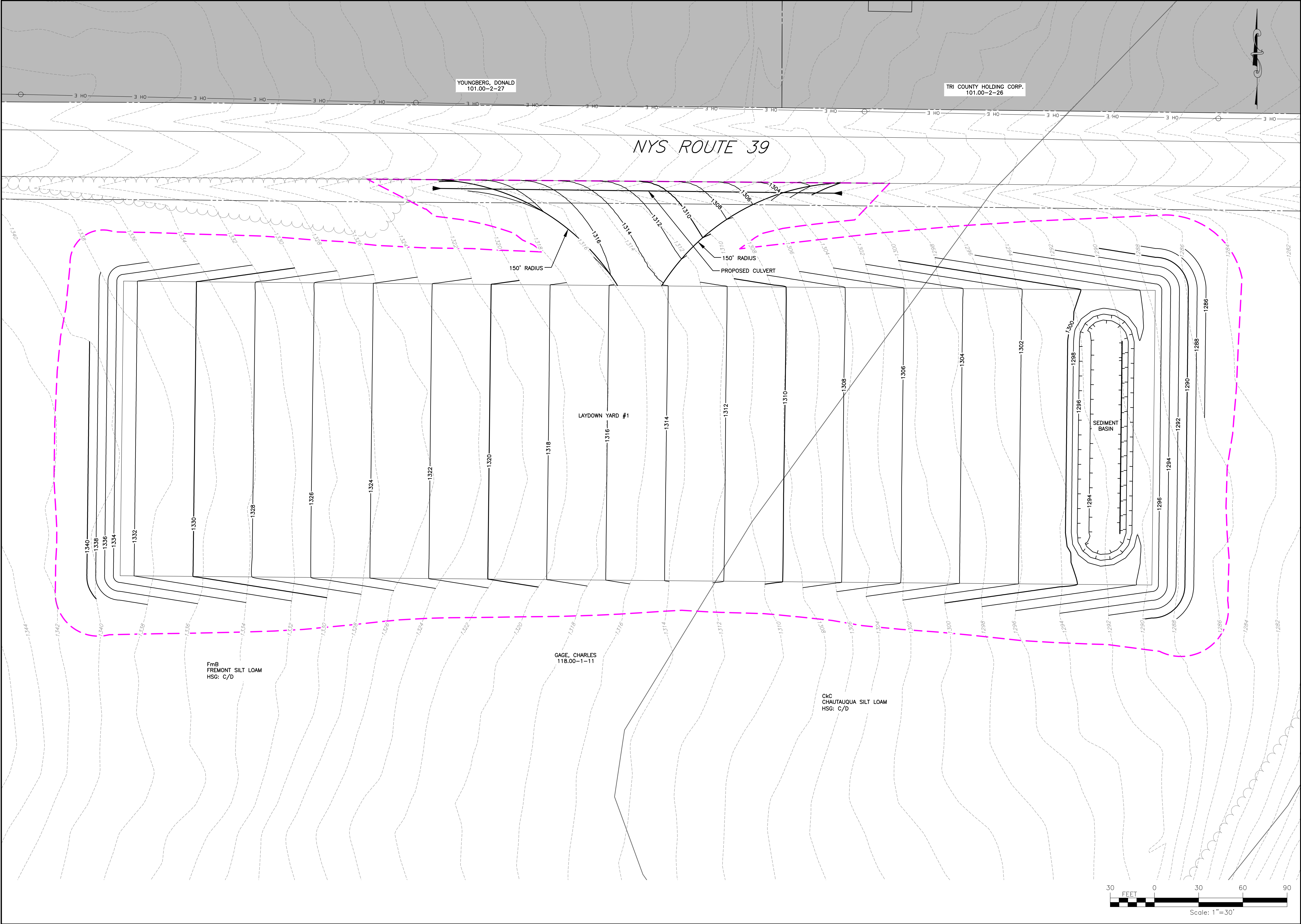
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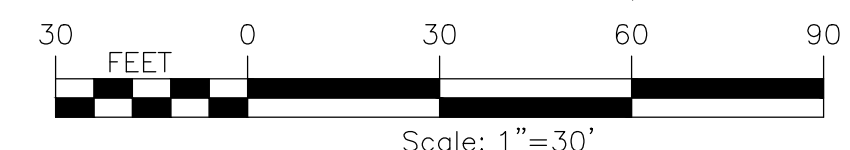
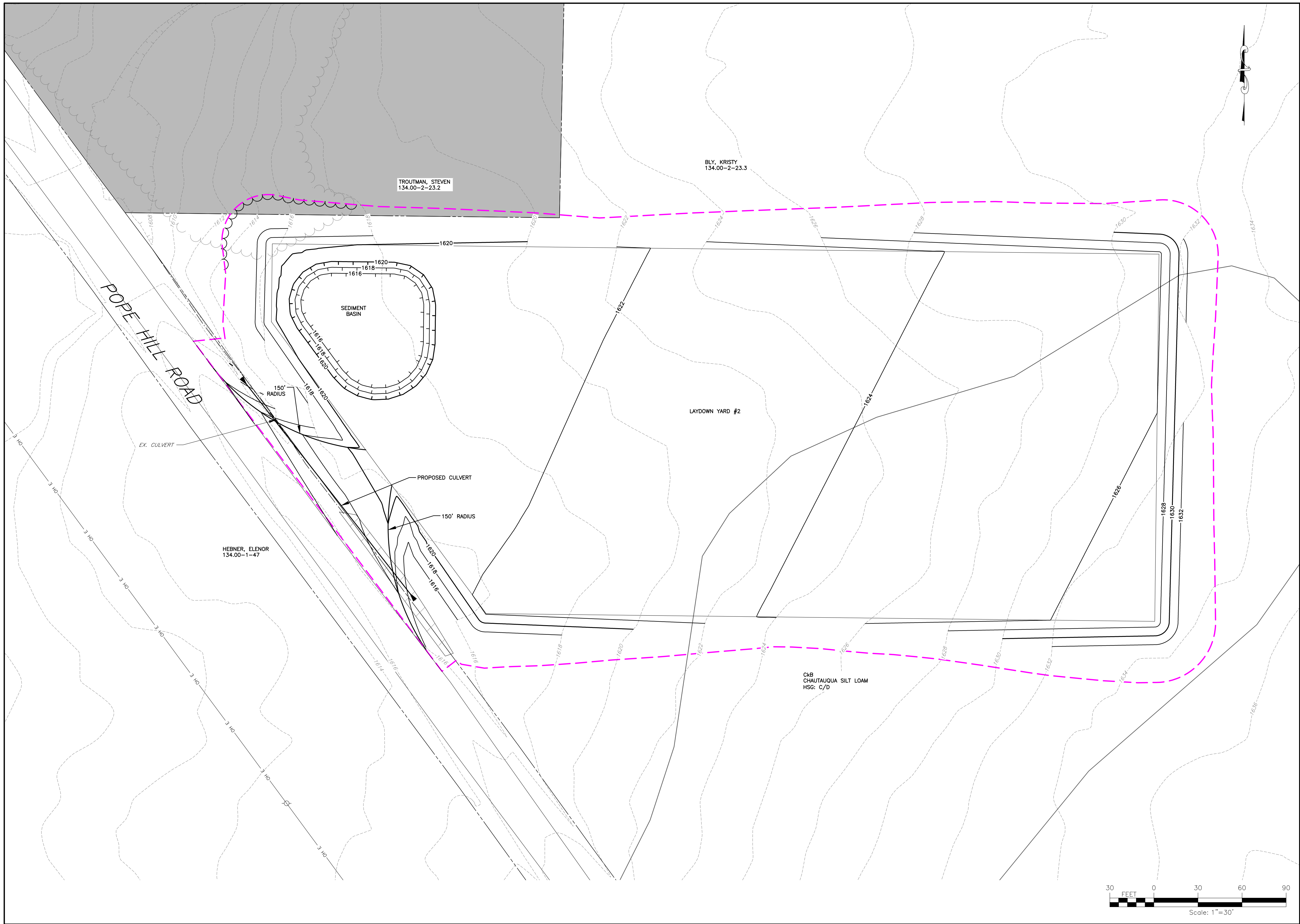


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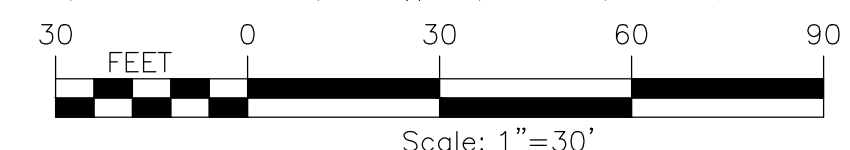
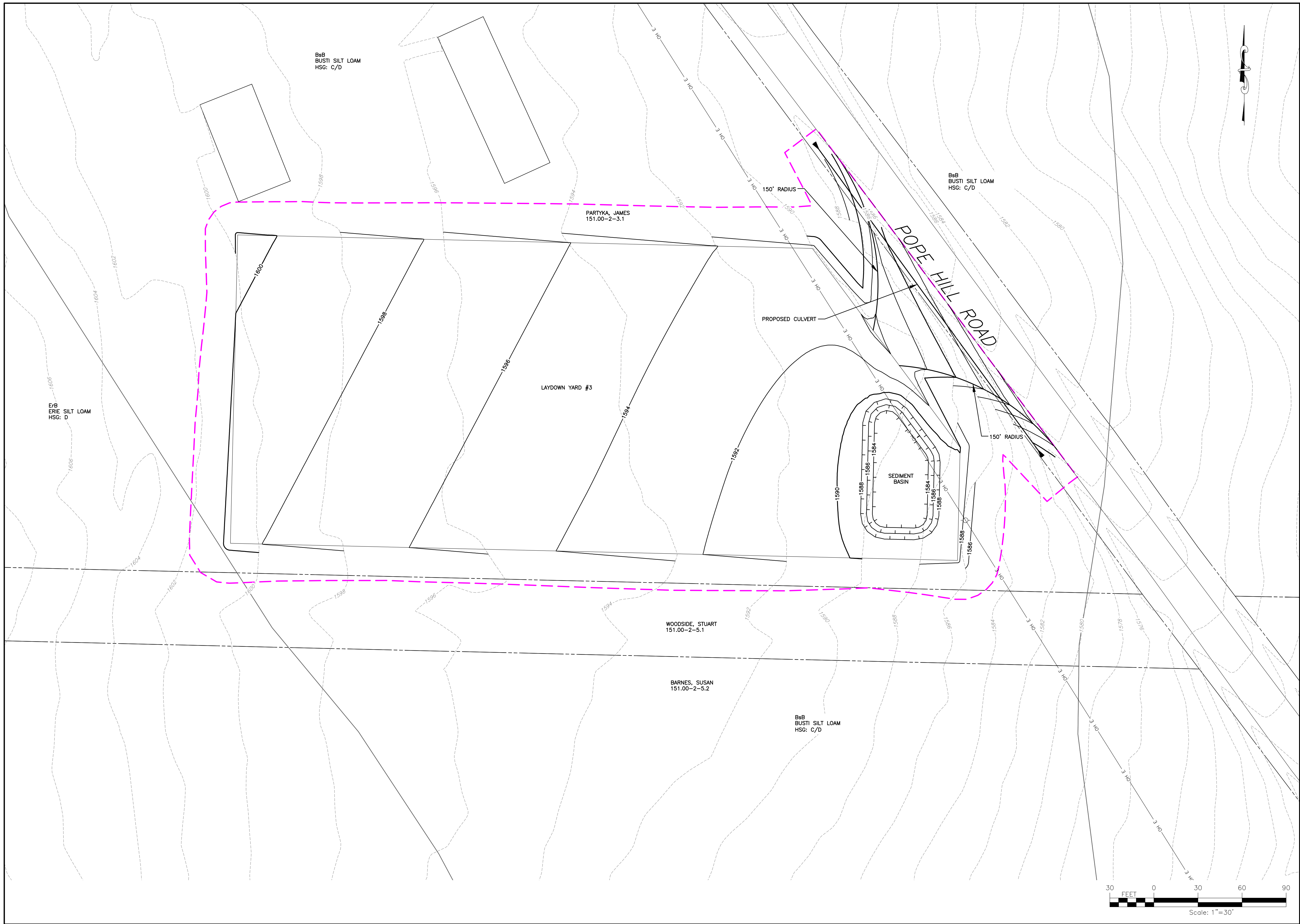
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY		FA PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY		COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., D.P.C. New York State Education Law, Section 1901(2)(ii) requires that this drawing be prepared by a licensed professional engineer or land surveyor, to alter in any way, or in any form, including this drawing, or the drawing, engineer or land surveyor, the notation, unless followed by the alteration, and a specific description of the alteration.	
TITLE OF DRAWING LAYDOWN YARD 1 - SITE PLAN		DRAWN BY JS, BA SCALE AS SHOWN		ISSUE DATE OCT. 2016		DESCRIPTION REV	
DRAWING NO. SP-1		DATE		BY		7 6 5 4 3 2 1	
SHEET 68 OF 81							

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PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		ISSUE DATE OCT. 2016		DESCRIPTION 1 2 3 4 5 6 7	
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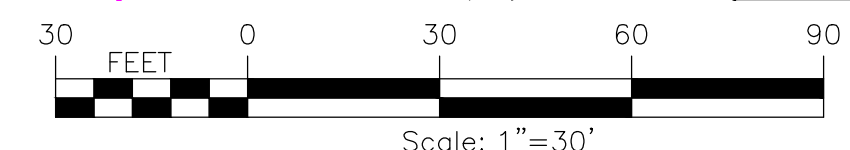
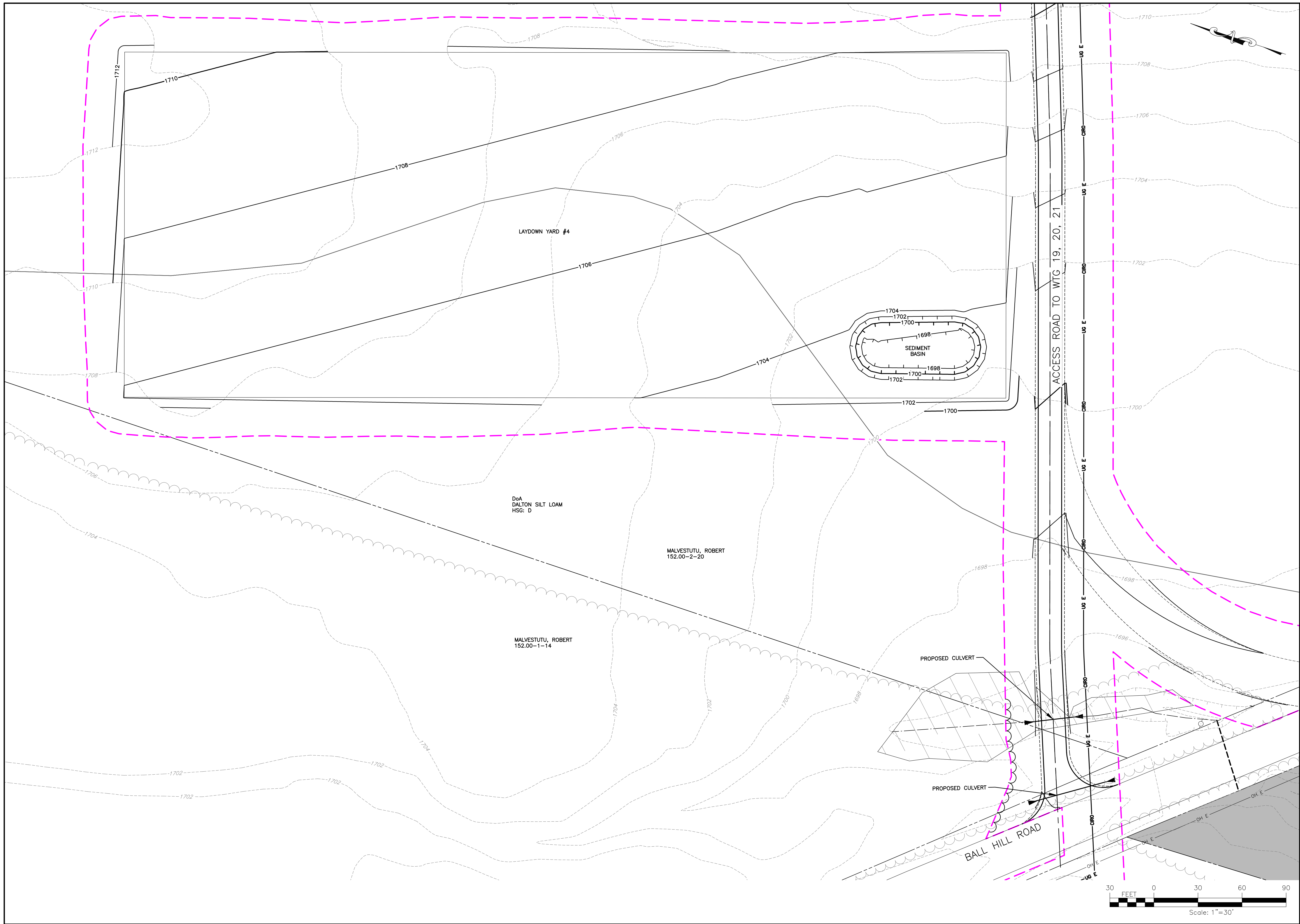
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PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING LAYDOWN YARD 3 - SITE PLAN		DRAWING NO. SP-3	
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REV 1 2 3 4 5 6 7		DESCRIPTION		DATE BY	

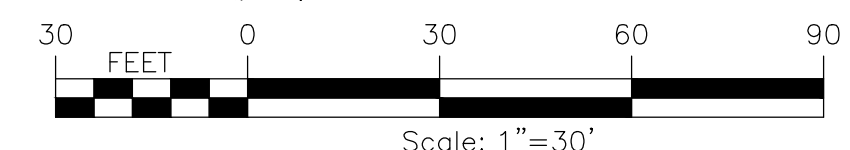
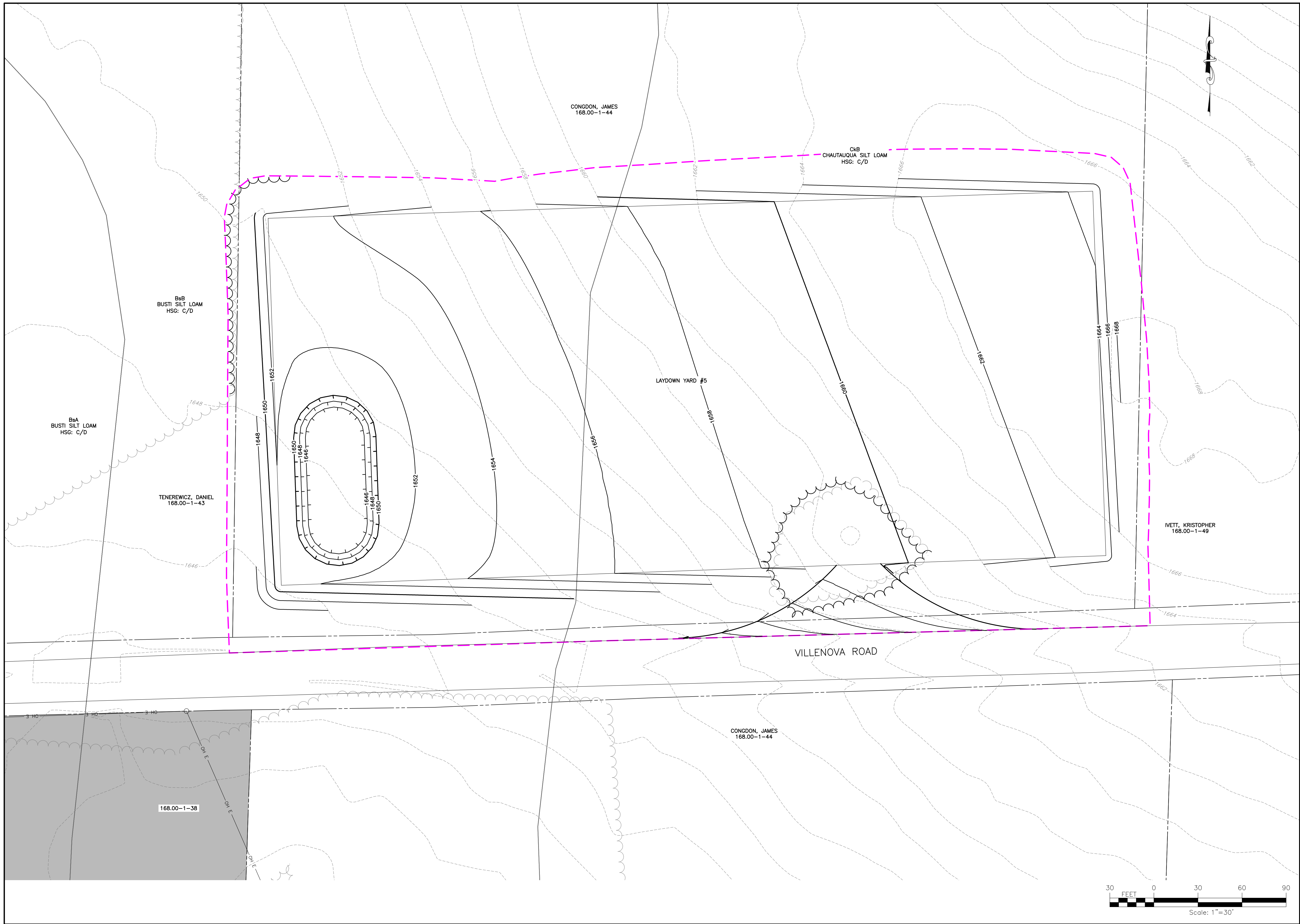


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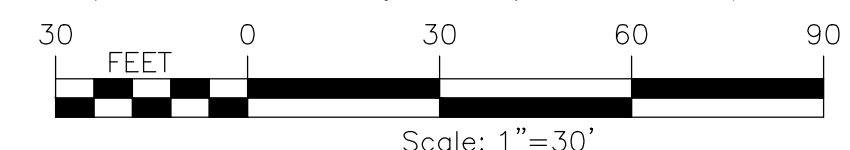
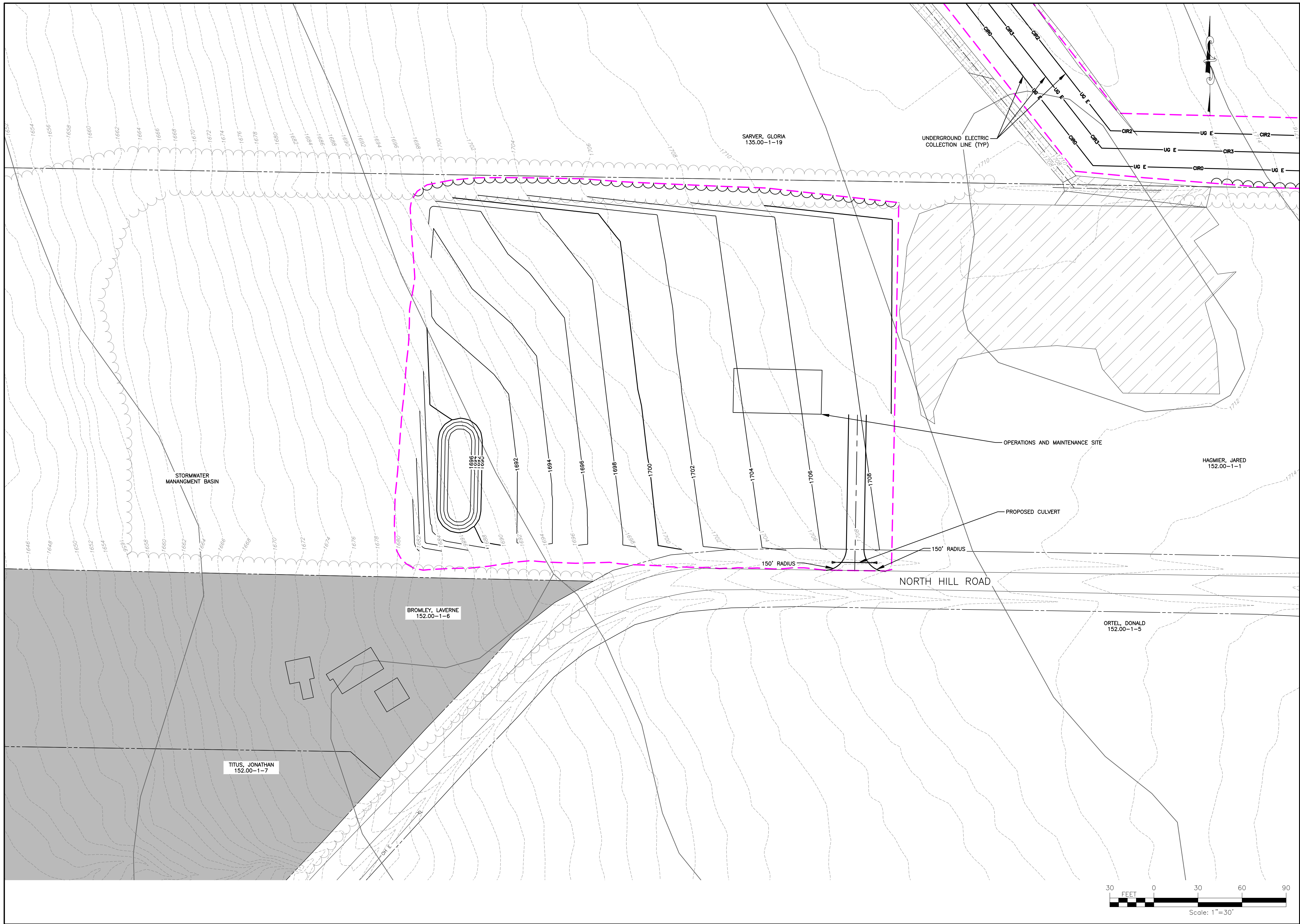
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PROJECT MANAGER P. MCCARTHY		DESIGNER JS, BA		SCALE AS SHOWN	
ISSUE DATE OCT. 2016		PROJECT NO. 150001		FA PROJECT NO. 150001	
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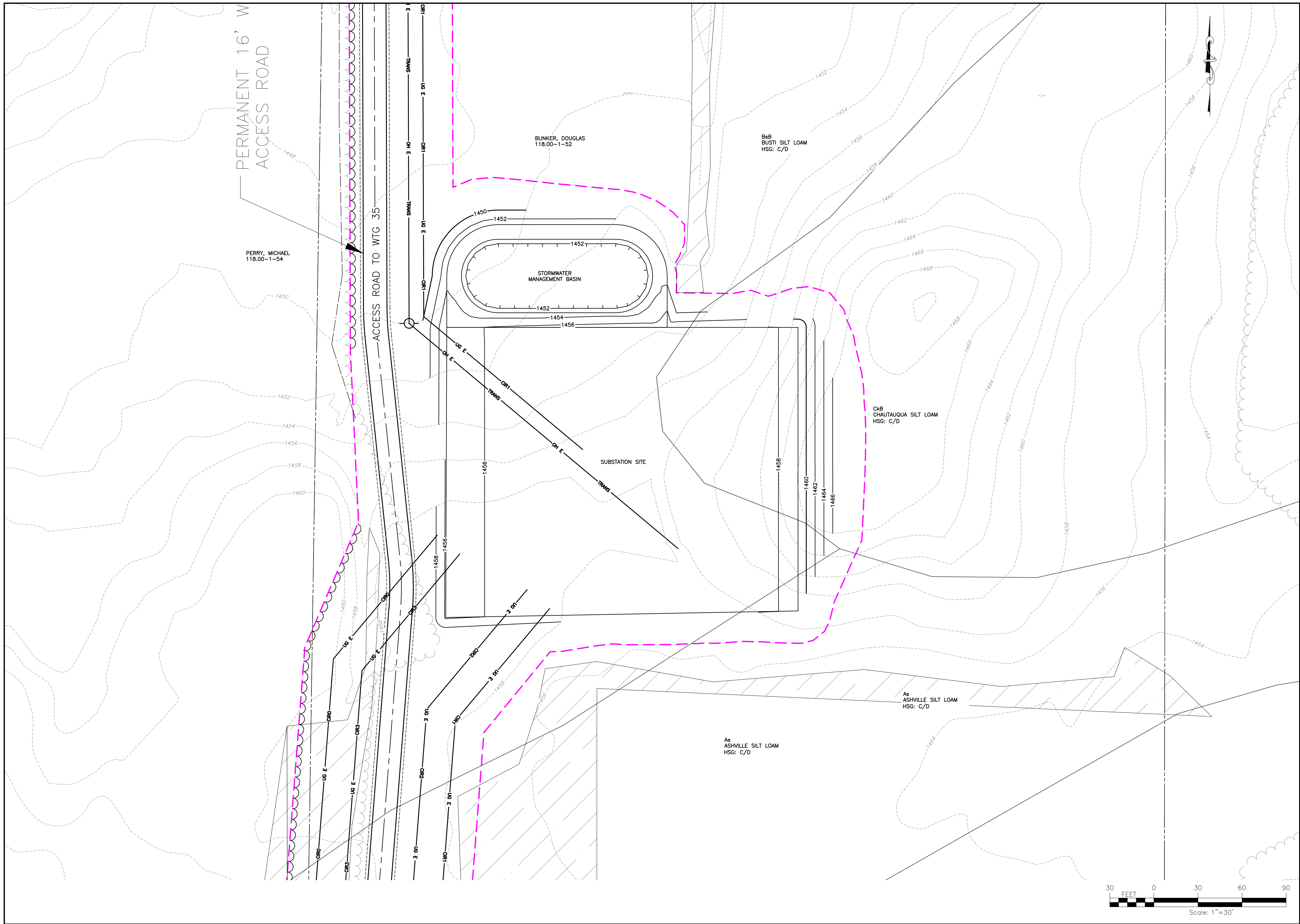
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PROJECT MANAGER P. MCCARTHY		DRAFTER VT, TK		SCALE AS SHOWN
FA PROJECT NO. 150001		ISSUE DATE OCT. 2016		AS SHOWN
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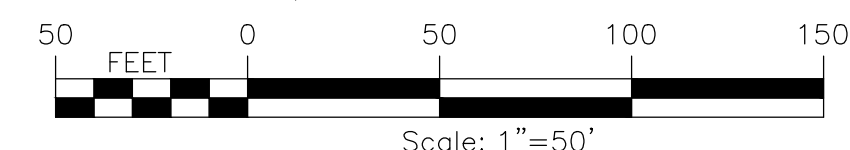
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PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		DRAWN BY VT, TK	
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DRAWING NO. SP-7		TITLE OF DRAWING SUBSTATION SITE PLAN		COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C.		New York State Education Law, Section 1502.1 This plan is for any person, unless by the signature of a professional engineer or land surveyor, to alter on item in any way, in any form, including the use of the drawing, engineer or land surveyor, the notation, "prepared by," followed by the signature, and a specific description of the alteration.		DESCRIPTION 1 2 3 4 5 6 7		REV 1 2 3 4 5 6 7	
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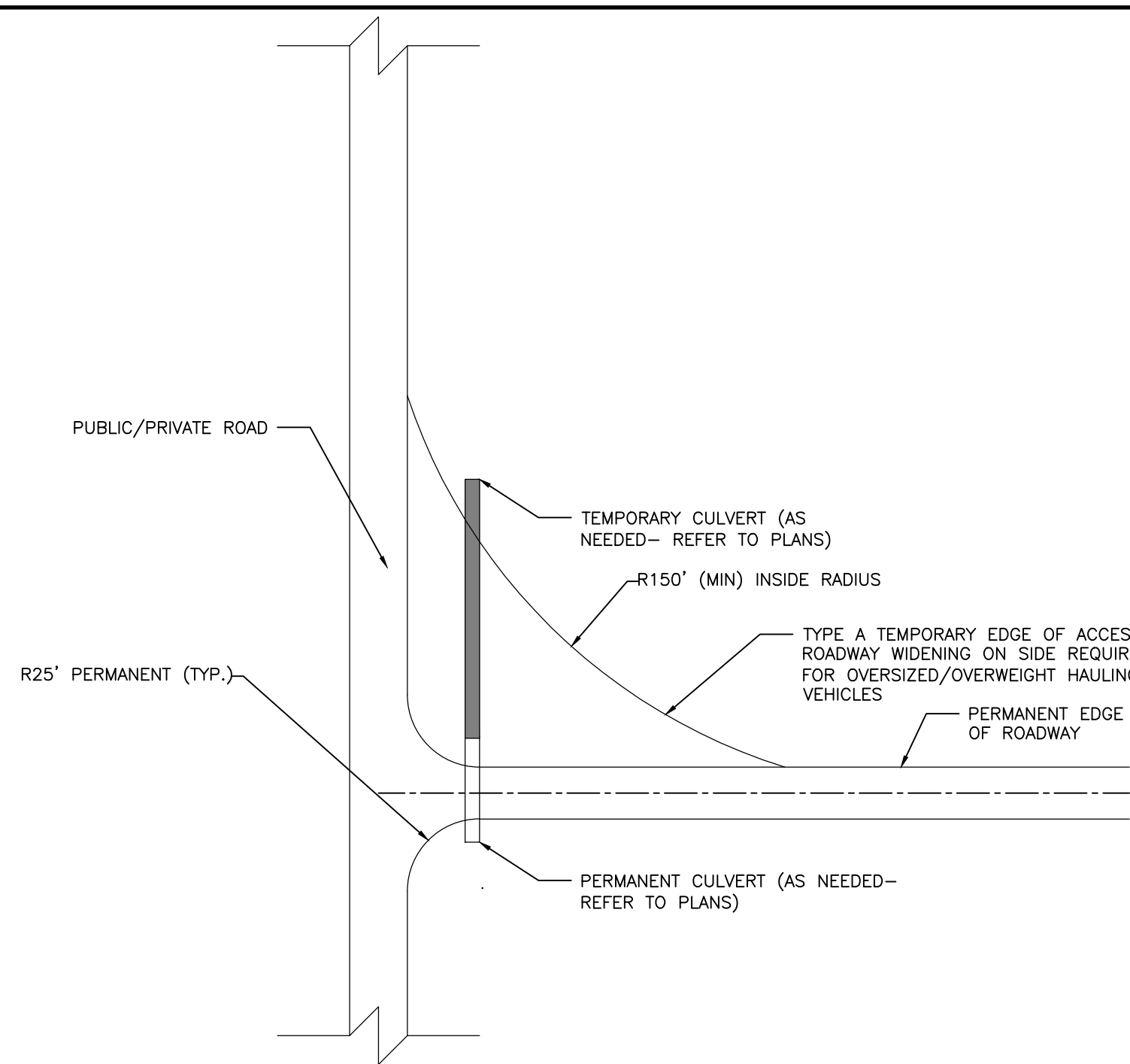


PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUKA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING SWITCHYARD SITE PLAN		DRAWING NO. SP-8		SHEET 75 OF 81	
PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		DRAUGHTSMAN VT, TK		SCALE AS SHOWN	
FA PROJECT NO. 150001		PROJECT MANAGER P. MCCARTHY		DRAUGHTSMAN VT, TK		SCALE AS SHOWN	
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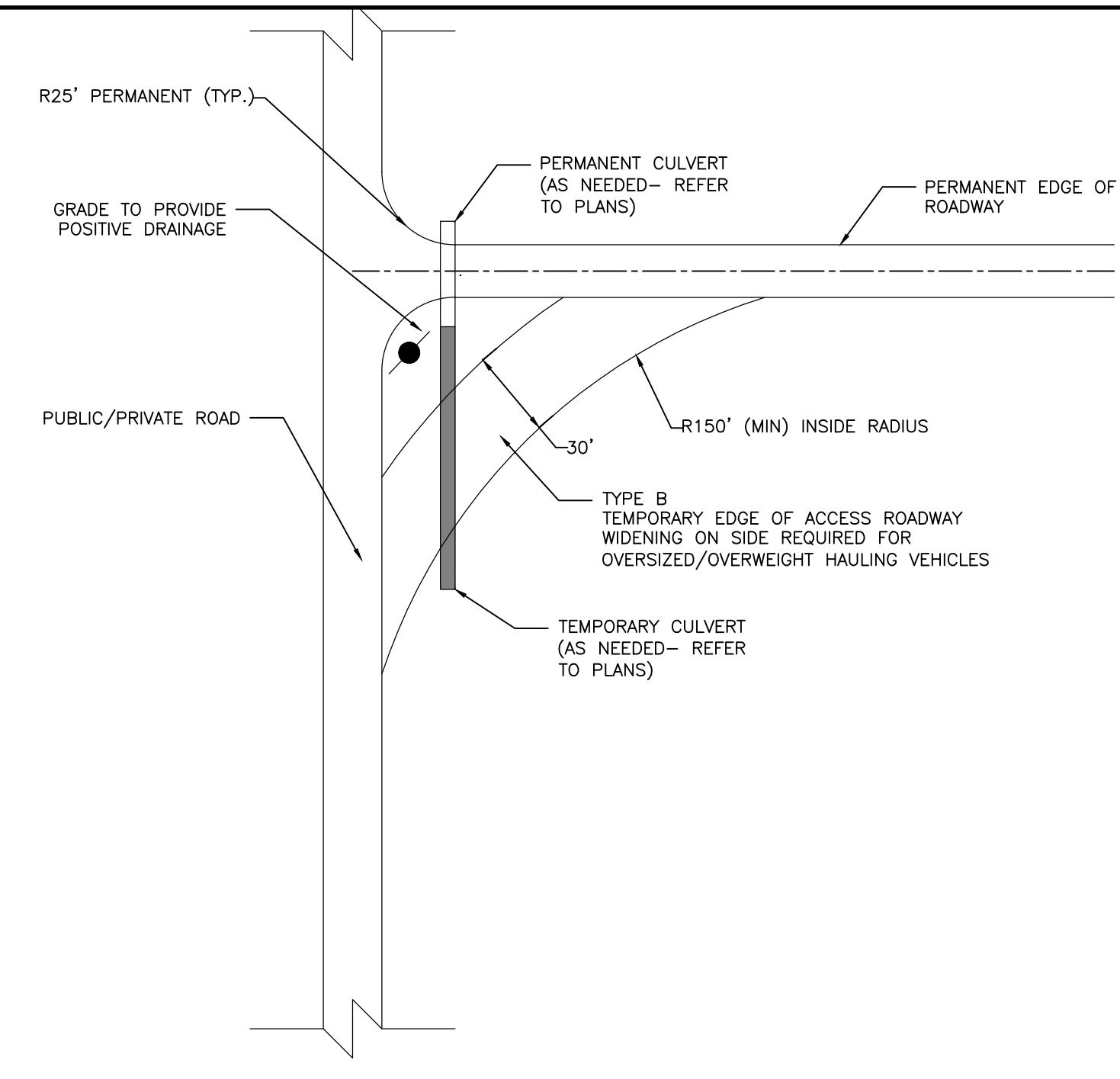
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BALL HILL WIND FARM CULVERT SUMMARY						
Culvert ID	Drainage Area (ac)	Drainage Area (sq mi)	Calculated Culvert Diameter (in)	Proposed Culvert Diameter (in)	Proposed Number of Barrels	25-Year Peak Flow (cfs)
CULVERT 11-1	15.82	0.02	30		1	31.88
CULVERT 11-2	12.10	0.02	30		1	26.34
CULVERT 11-3	4.38	0.01	18		1	10.99
CULVERT 13-1	0.86	0.00	12		1	2.81
CULVERT 13-2	16.67	0.03	30		1	32.96
CULVERT 15-1	0.44	0.00	12		1	1.37
CULVERT 16-1	17.26	0.03	30		1	31.49
CULVERT 17-1	3.82	0.01	18		1	9.84
CULVERT 17-2	12.34	0.02	30		1	25.39
CULVERT 2-1	15.35	0.02	30		1	30.90
CULVERT 21-1	0.56	0.00	12		1	1.91
CULVERT 21-2	70.92	0.11	48		1	86.82
CULVERT 21-3	39.60	0.06	48		1	55.75
CULVERT 2-2	1.01	0.00	12		1	3.31
CULVERT 23-1	9.72	0.02	24		1	21.42
CULVERT 23-2	11.19	0.02	30		1	23.52
CULVERT 23-3	3.47	0.01	18		1	8.97
CULVERT 27-1	0.09	0.00	12		1	0.35
CULVERT 28-1	0.15	0.00	12		1	0.55
CULVERT 28-2	107.98	0.17	54		1	130.34
CULVERT 28-3	23.42	0.04	36		1	40.89
CULVERT 30-1	1.18	0.00	12		1	3.70
CULVERT 30-2	4.17	0.01	18		1	10.60
CULVERT 30-3	3.68	0.01	18		1	10.60
CULVERT 30-4	145.81	0.23	72		1	174.76
CULVERT 30-5	72.68	0.11	48		1	99.61
CULVERT 3-1	0.81	0.00	12		1	2.73
CULVERT 31-1A	0.04	0.00	12		1	0.14
CULVERT 31-2	0.23	0.00	12		1	0.84
CULVERT 31-3	10.07	0.02	24		1	22.57
CULVERT 31-4	3.09	0.00	18		1	7.78
CULVERT 31-5	19.67	0.03	36		1	37.67
CULVERT 31-6	6.97	0.01	24		1	14.97
CULVERT 31-7	0.76	0.00	12		1	2.30
CULVERT 3-2	4.43	0.01	18		1	11.02
CULVERT 33-1	76.96	0.12	54		1	112.14
CULVERT 33-2	8.30	0.01	24		1	19.69
CULVERT 33-3	16.57	0.03	30		1	33.99
CULVERT 33-4	50.47	0.08	48		1	81.15
CULVERT 33-5	1.43	0.00	18		1	4.49
CULVERT 34-1	10.42	0.02	24		1	21.59
CULVERT 35-1	28.15	0.04	36		1	47.08
CULVERT 35-2	11.33	0.02	30		1	23.51
CULVERT 36-1	31.92	0.05	48		1	57.63
CULVERT 36-2	309.79	0.48	84		1	316.61
CULVERT 36-3	10.81	0.02	30		1	26.14
CULVERT 36-4	914.53	1.43	96		1	427.15
CULVERT 37-1	5.68	0.01	24		1	13.52
CULVERT 39-1	5.11	0.01	24		1	12.53
CULVERT 4-1	4.44	0.01	18		1	10.29
CULVERT 5-1	8.41	0.01	24		1	16.89
CULVERT 5-2	14.09	0.02	30		1	24.91
CULVERT 5-3	3.18	0.00	18		1	7.86
CULVERT 5-4	9.23	0.01	24		1	18.89
CULVERT 5-5	7.15	0.01	24		1	18.41
CULVERT 7-1	3.29	0.01	18		1	8.79
CULVERT 8-1A	0.27	0.00	12		1	0.98
CULVERT 8-2	45.59	0.07	48		1	65.08
CULVERT 8-3	79.40	0.12	48		1	105.23
CULVERT 9-1	4.29	0.01	18		1	10.21
CULVERT 9-2	1.59	0.00	18		1	4.62

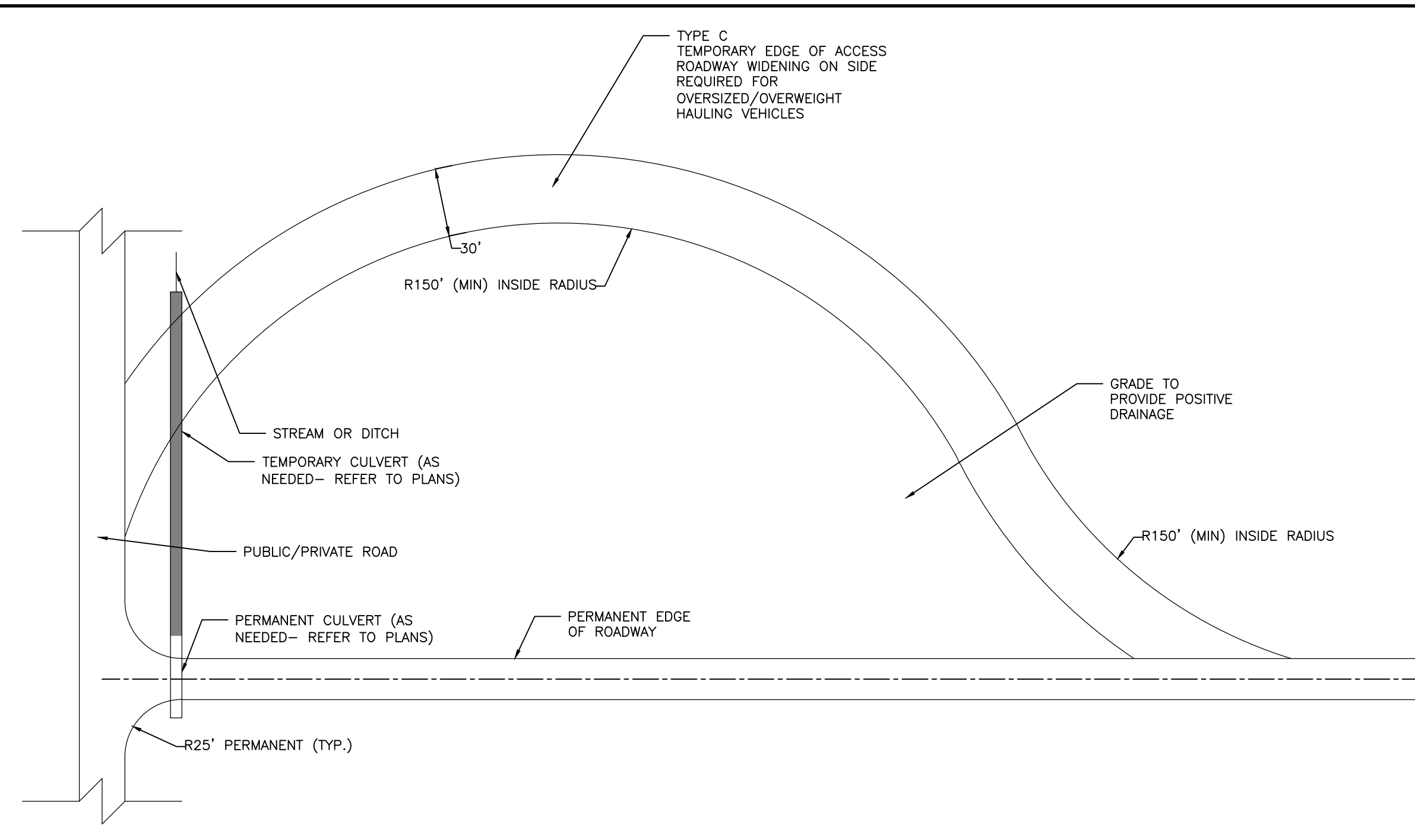
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAUQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING CULVERT DRAINAGE TABLE	
DRAWING NO. DT-1		SHEET 76 OF 81	
PROJECT NO. 150001 PROJECT MANAGER P. MCCARTHY DRAWN BY VT, TK SCALE AS SHOWN		ISSUE DATE OCT. 2016	
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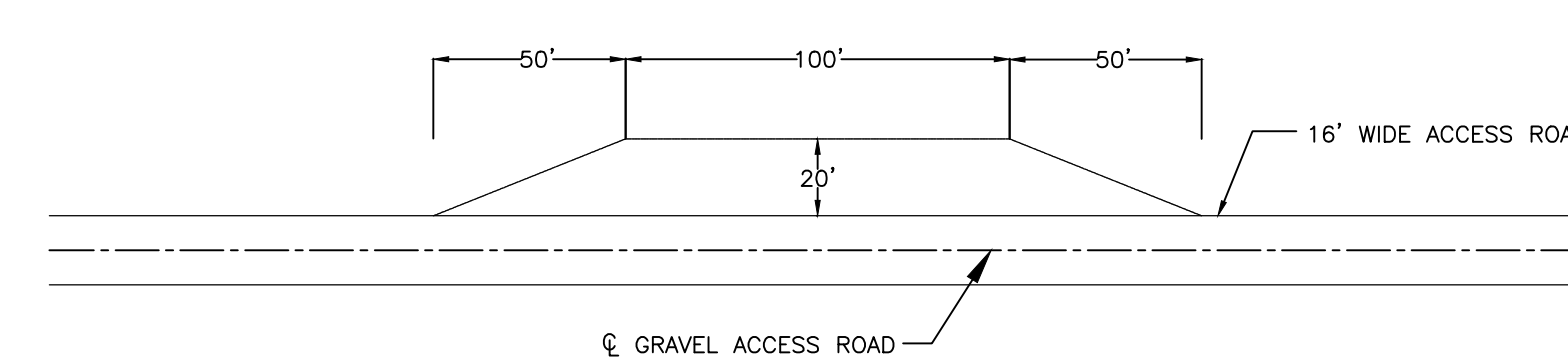
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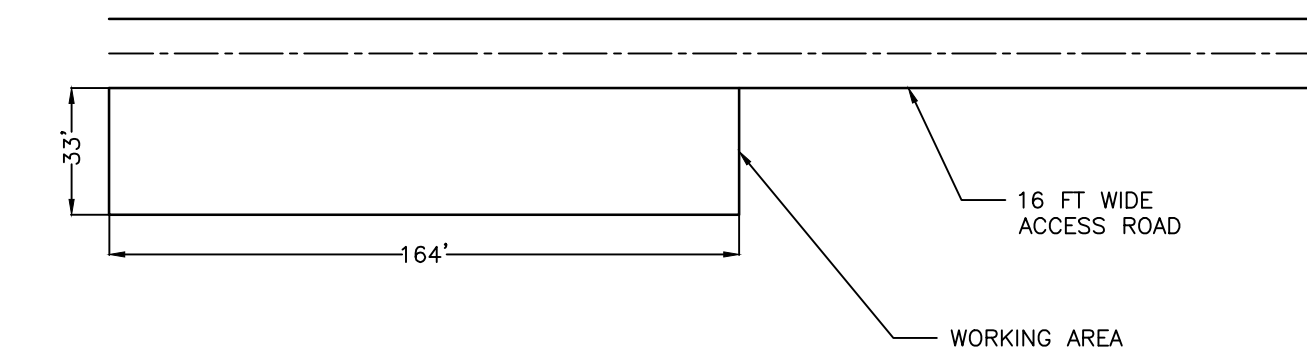
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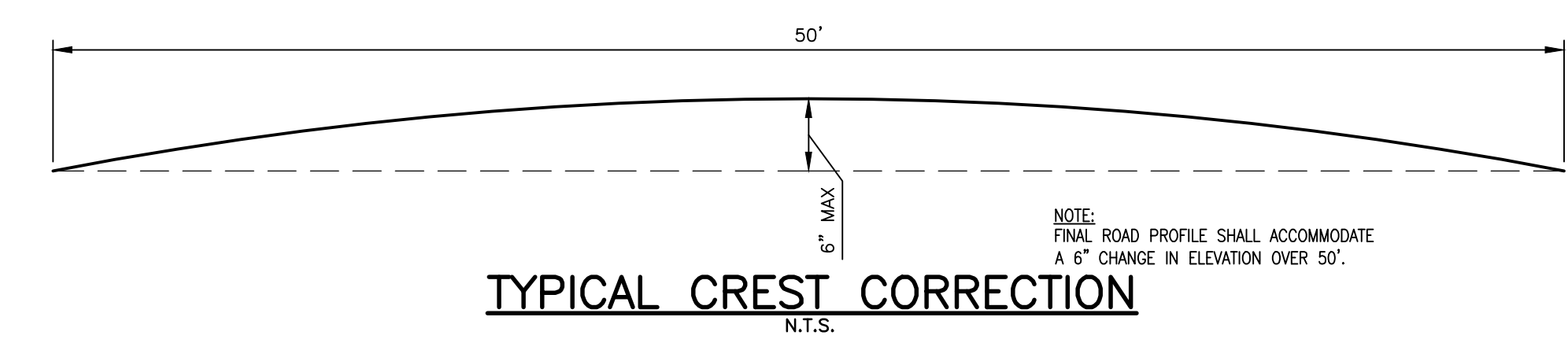
INTERSECTION IMPROVEMENT TYPE C
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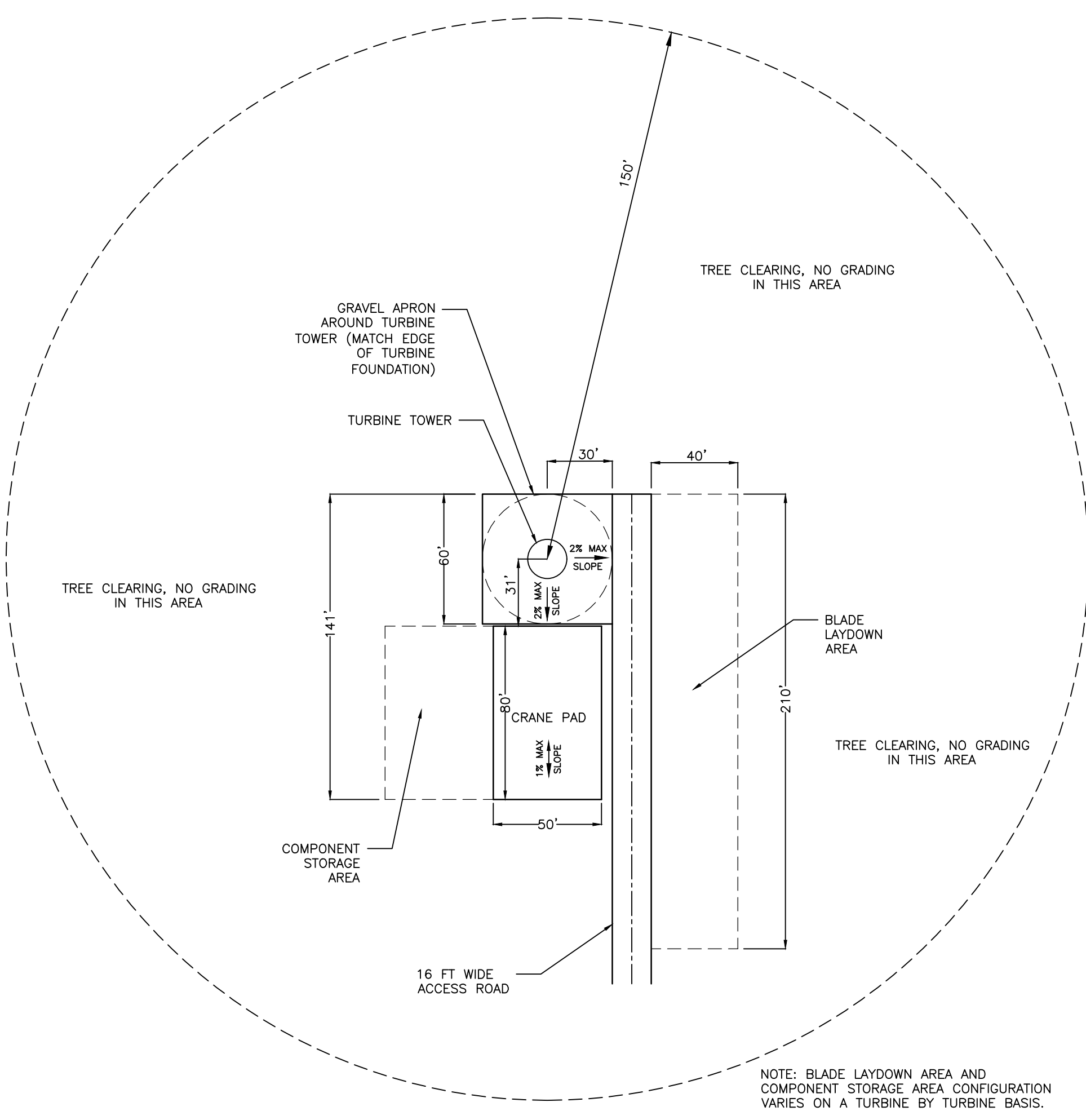
TEMPORARY PASSING LANE
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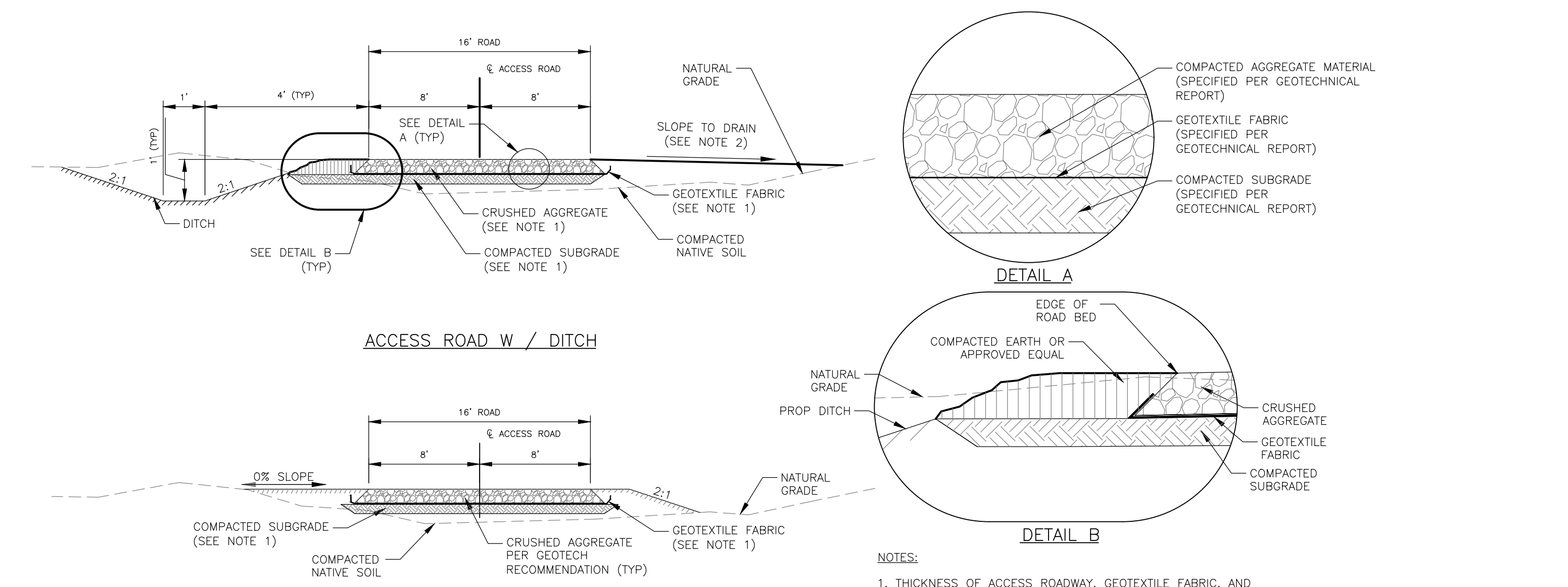
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N.T.S.



TYPICAL CREST CORRECTION
N.T.S.



CONSTRUCTION SITE
N.T.S.



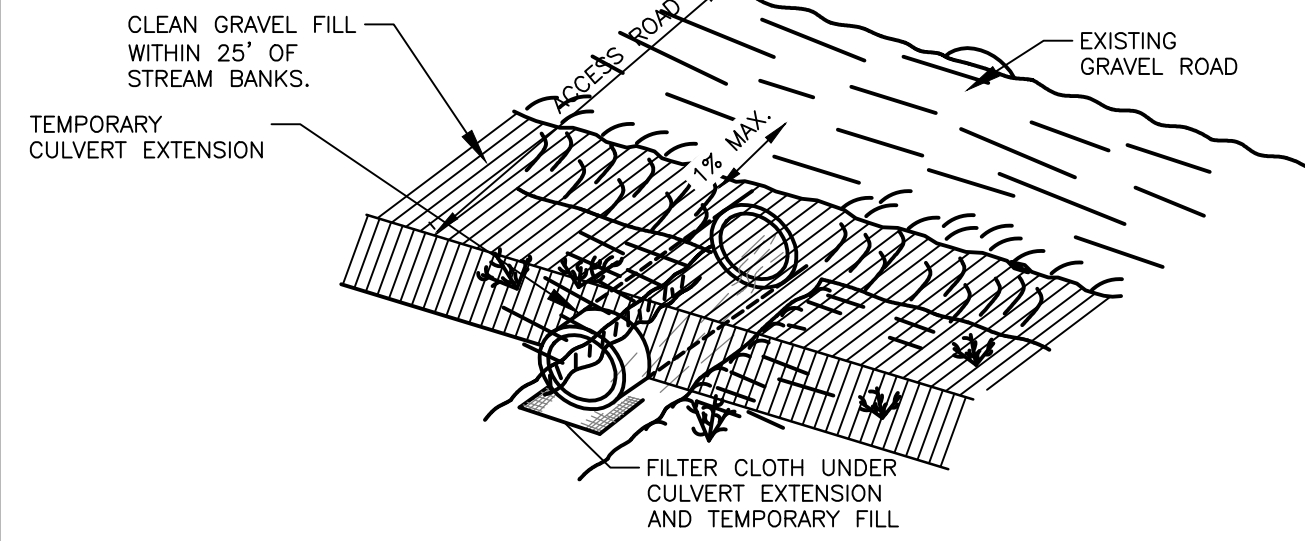
**ACCESS ROAD CROSS SECTION DETAIL:
16-FT WIDE ACCESS ROAD WITHOUT CRANE PATH**
N.T.S.

- NOTES:**
- THICKNESS OF ACCESS ROADWAY, GEOTEXTILE FABRIC, AND COMPACTED SUBGRADE SHALL BE BASED ON GEOTECHNICAL RECOMMENDATION.
 - LIMITS OF GROSS SLOPES SHALL BE:
 0% - 2% MAX FOR ACCESS ROAD DURING CONSTRUCTION
 0% - 2% MAX FOR NON-DITCH SECTION
 2% - 4% MAX FOR ACCESS ROAD AFTER CONSTRUCTION

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PROJECT	BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY
TITLE OF DRAWING	PRELIMINARY PLANS DETAILS-1
DRAWING NO.	DET-1
FA PROJECT NO.	150001
PROJECT MANAGER	P. MCCARTHY
DRAWN BY	SCALE AS SHOWN
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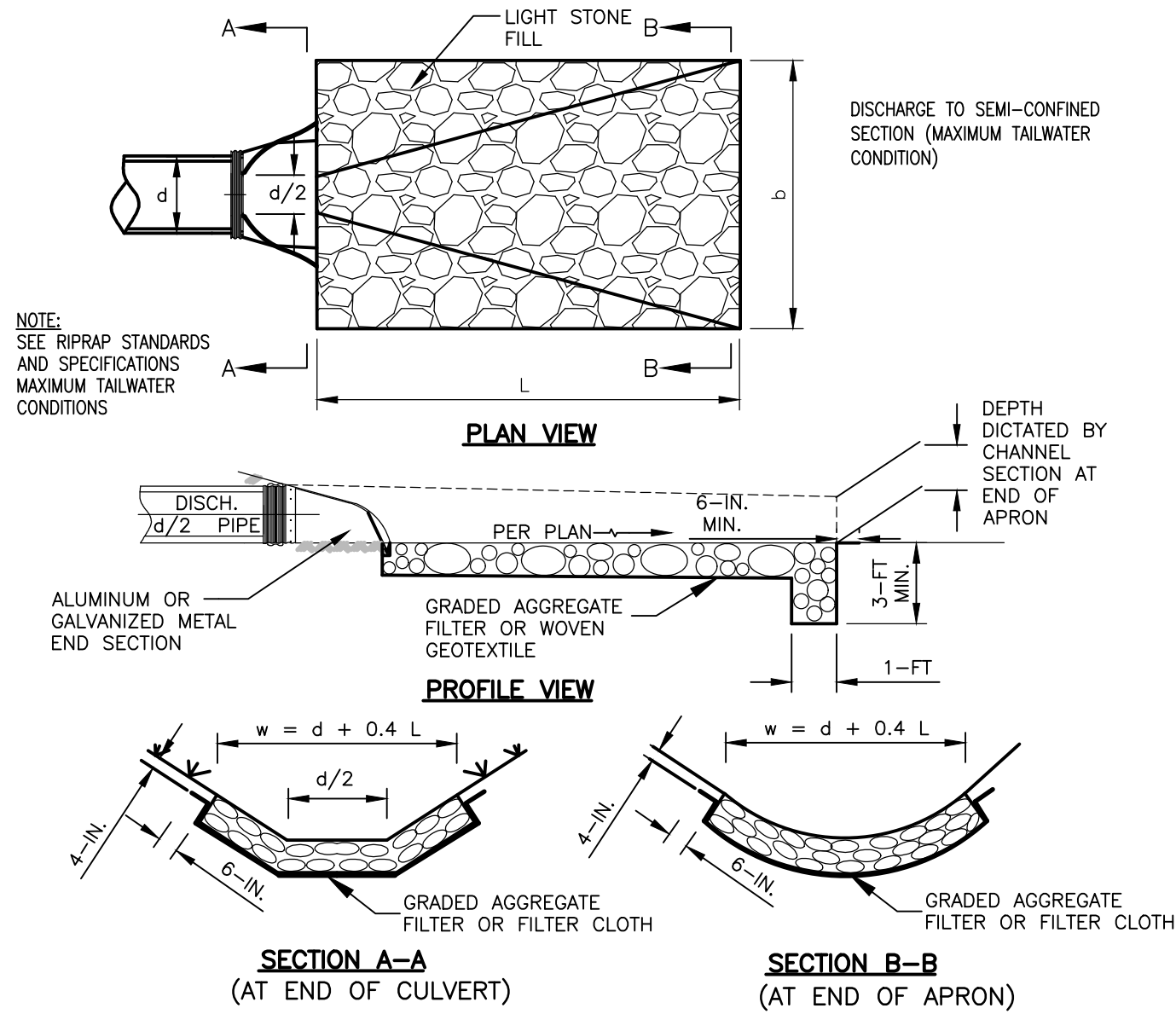
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- NOTES:
- EXISTING CULVERT SHALL BE EXTENDED ON THE SIDE OF ROAD RESULTING IN THE LEAST AMOUNT OF WETLAND AND/OR STREAM IMPACTS.
 - TEMPORARY CULVERT SHALL BE INSTALLED NO SOONER THAN 4 WEEKS PRIOR TO THE CRANE CROSSING AND SHALL BE REMOVED WITHIN 5 MONTHS AFTER THE CROSSING.
 - THE CULVERT SHALL EXTEND A MINIMUM OF 1' BEYOND THE TOE OF SLOPE.
 - IN AREAS THAT HAVE LESS THAN 1" OF COVER OVER THE EXISTING CULVERT, A STEEL PLATE MAY BE UTILIZED IN CONJUNCTION WITH THE TEMPORARY CULVERT EXTENSIONS TO SPAN THE CULVERT AND PROVIDE FOR CONSTRUCTION LOADING.
 - THE MINIMUM DIAMETER OF THE TEMPORARY CULVERT SHALL EQUAL THE SIZE OF THE EXISTING CULVERT.

TEMPORARY CULVERT EXTENSION

N.T.S.



APPLICATION NOTES:

- ROCK OUTLET PROTECTION SHALL BE PROVIDED AT THE INLETS AND OUTLETS OF ALL CULVERT PIPES TO REDUCE THE DEPTH, VELOCITY, AND ENERGY OF WATER SUCH THAT THE FLOW WILL NOT ERODE THE RECEIVING DOWNSTREAM REACH.

CONSTRUCTION SPECIFICATIONS:

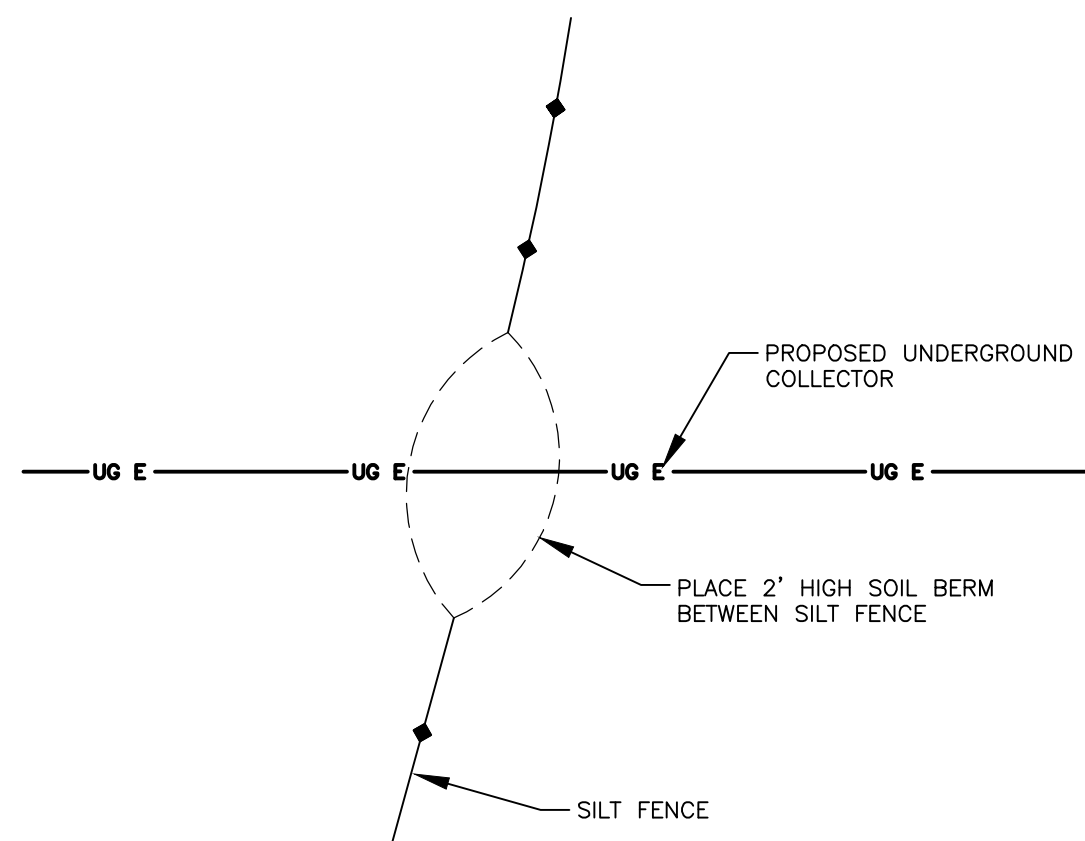
- SEE GRADING AND STORMWATER POLLUTION PREVENTION PLAN FOR OUTFALL INVERTS AND SURROUNDING GRADES.
- ANY FILL ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- SEE DRAINAGE TABLE FOR PIPE AND OUTFALL LOCATIONS AND PIPE SIZES.
- FILTER CLOTH SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN THE OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS, WHETHER FOR REPAIRS OR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF 1-FT.

MAINTENANCE NOTES:

- INSPECT STRUCTURE AFTER HIGH FLOWS FOR EVIDENCE OF SCOUR BENEATH RIPRAP OR FOR DISLODGED STONES. REPAIRS SHOULD BE MADE IMMEDIATELY.

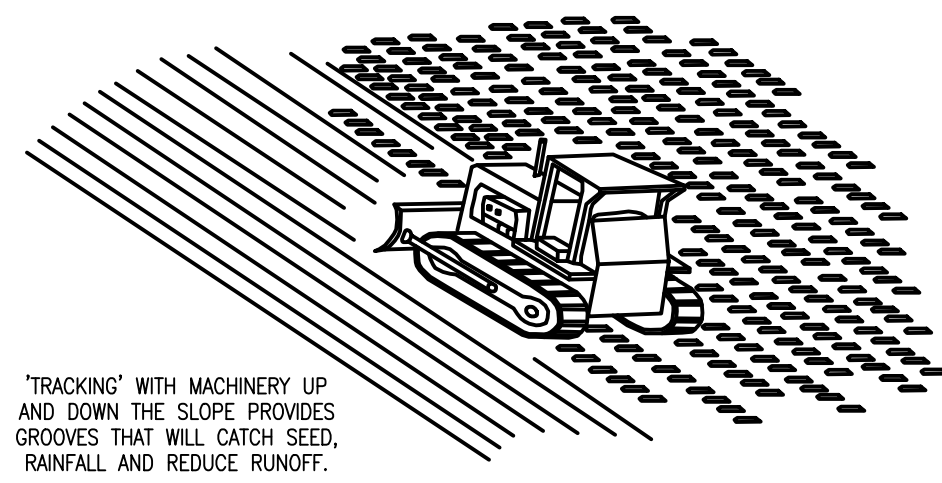
TYPICAL CULVERT ROCK OUTLET PROTECTION

N.T.S.

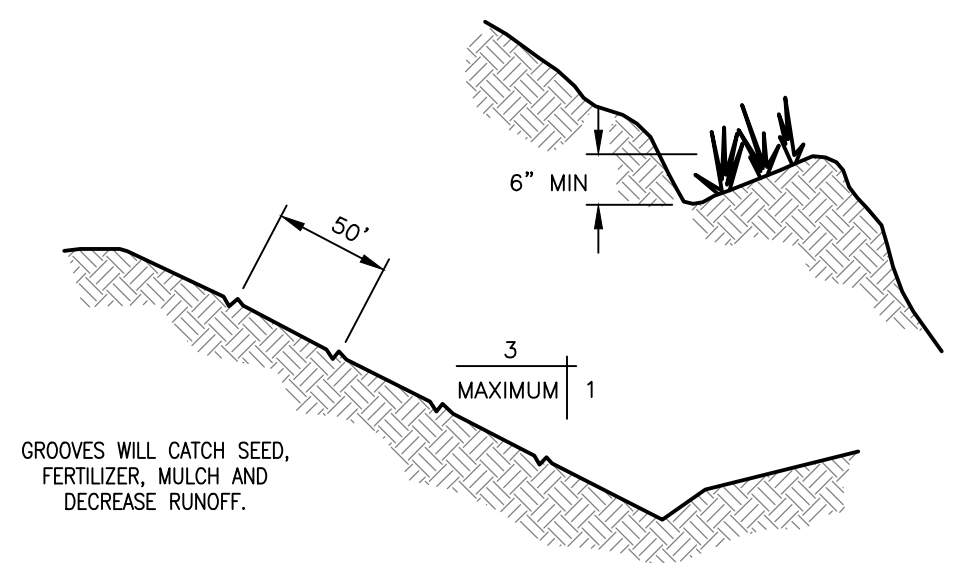


EROSION CONTROL CROSSING UNDERGROUND COLLECTION

N.T.S.



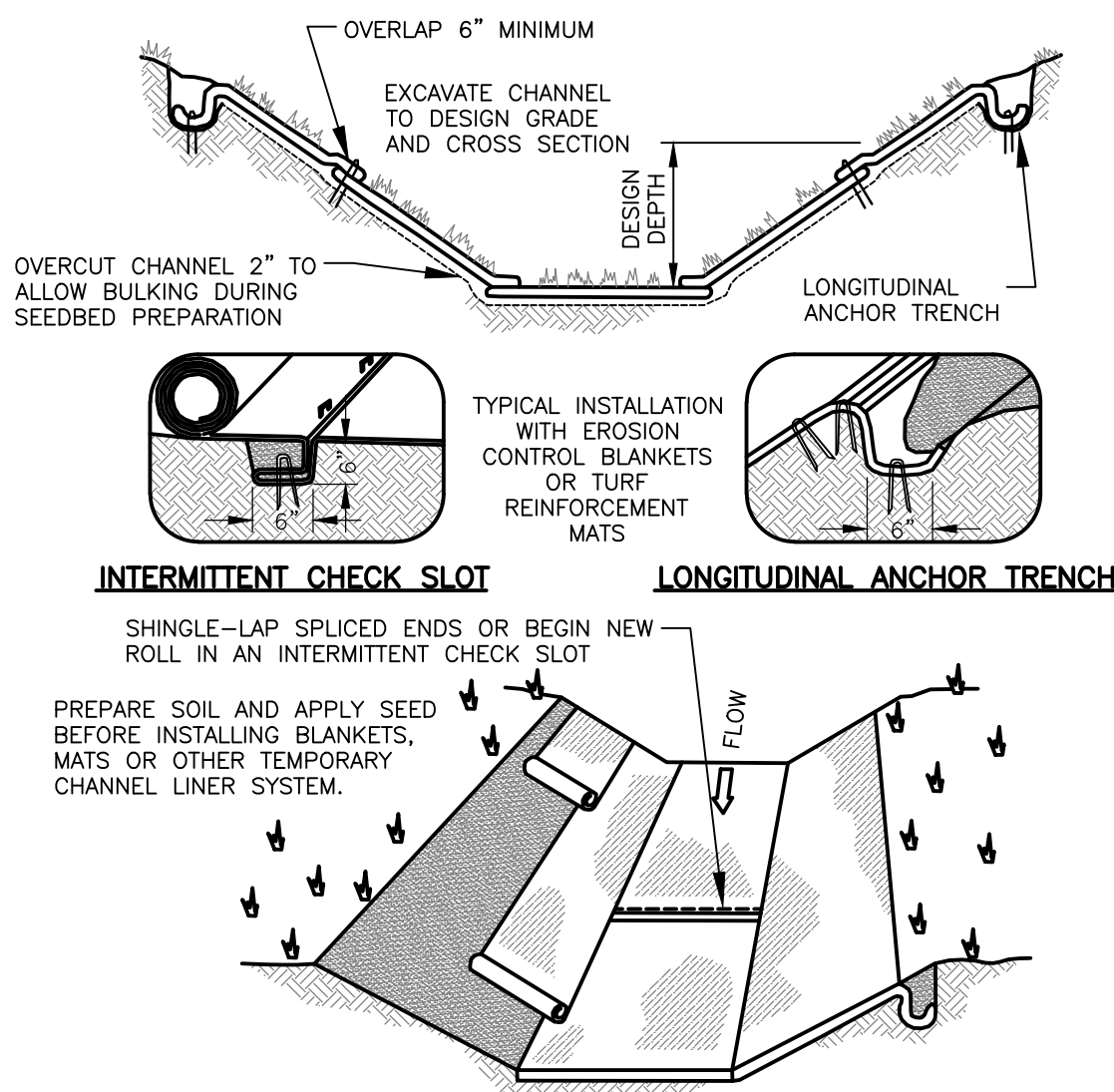
TRACKING



CONTOUR FURROWS

SURFACE ROUGHENING

N.T.S.

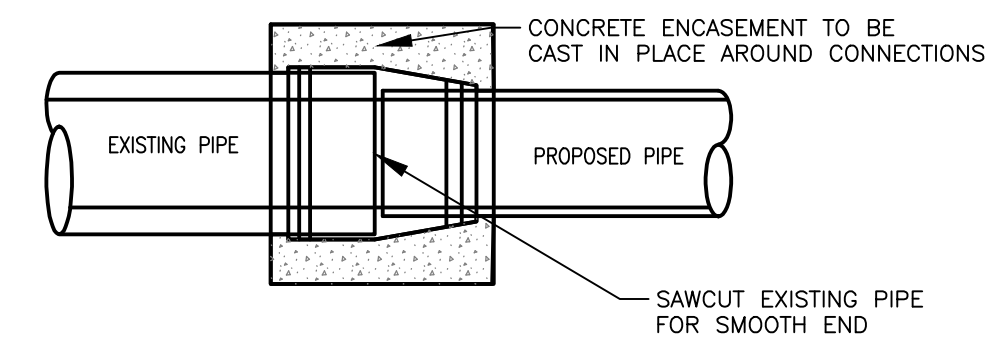


NOTES:

- DESIGN VELOCITIES EXCEEDING 2 FT/SEC REQUIRE TEMPORARY BLANKETS, MATS OR SIMILAR LINERS TO PROTECT SEED AND SOIL UNTIL VEGETATION BECOMES ESTABLISHED.
- GRASS-LINED CHANNELS WITH DESIGN VELOCITIES EXCEEDING 6 FT/SEC SHOULD INCLUDE TURF REINFORCEMENT MATS.

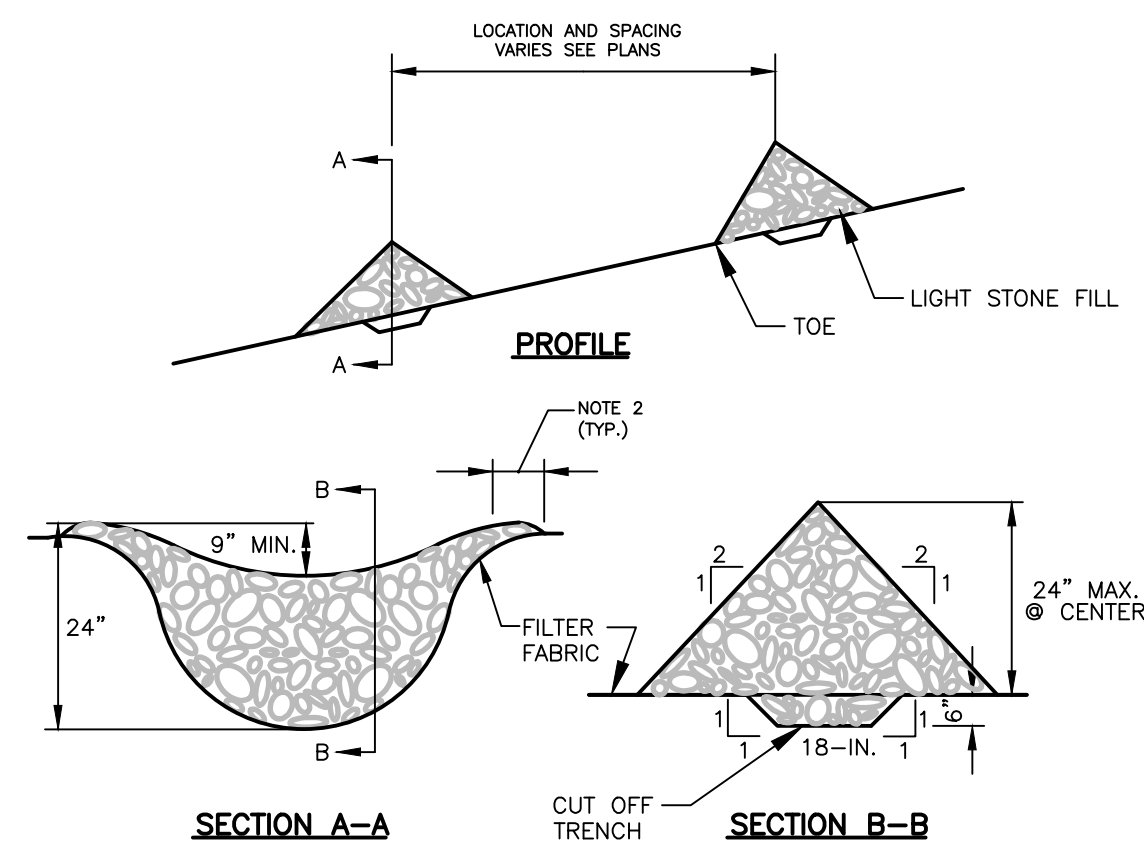
GRASS-LINED CHANNEL TYPICAL INSTALLATION

N.T.S.



CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE

N.T.S.



APPLICATION NOTES:

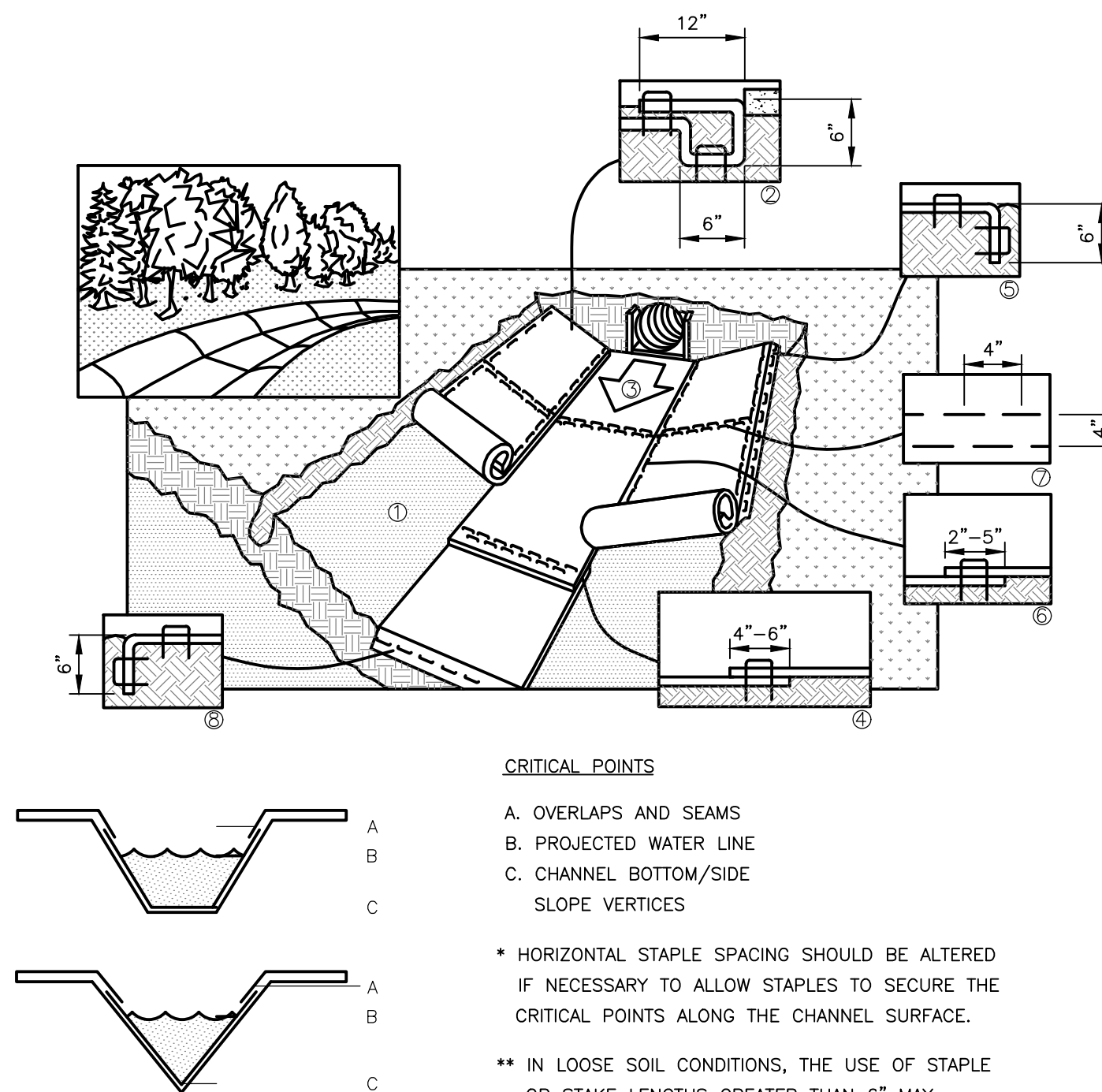
- CHECK DAMS SHALL BE USED TO REDUCE EROSION IN DRAINAGE CHANNEL BY RESTRICTING THE VELOCITY OF FLOW IN THE CHANNEL.
 - MAXIMUM DRAINAGE AREA ABOVE THE CHECK DAM SHALL NOT EXCEED 2-ACRES.
- CONSTRUCTION SPECIFICATIONS:
- STONE SHALL BE PLACED ON FILTER FABRIC FOUNDATION.
 - EXTEND THE STONE A MINIMUM OF 1.5- FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAINTENANCE NOTES:

- INSPECT CHECK DAMS ONCE A WEEK AND AFTER RAINFALLS. REMOVE SILT FROM BEHIND DAM AS NEEDED TO PERMIT FLOW THROUGH THE DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM.
- INSTALL STONE LINER IN CHANNEL UPSTREAM OF CHECK DAM IF SIGNIFICANT EROSION OCCURS.
- REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES.
- UPON STABILIZATION OF THE SITE REMOVE CHECK DAMS SO AS NOT TO BLOCK STORM FLOW OR DRAINAGE.

CHECK DAM DETAIL

N.T.S.



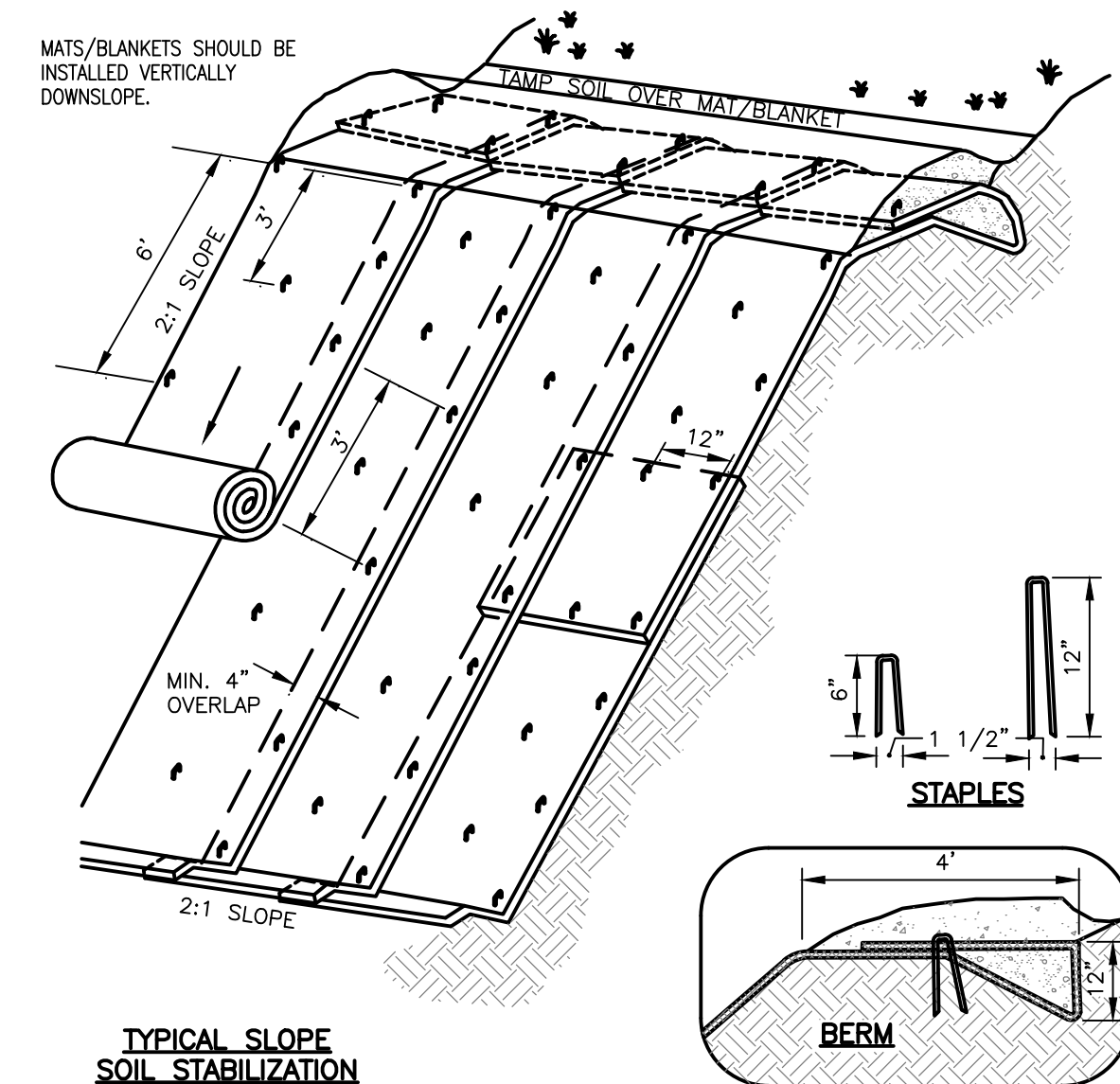
CRITICAL POINTS

- OVERLAPS AND SEAMS
- PROJECTED WATER LINE
- CHANNEL BOTTOM/SIDE SLOPE VERTICES

- HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

EROSION CONTROL BLANKET - CHANNEL INSTALLATION

N.T.S.



TYPICAL SLOPE SOIL STABILIZATION

NOTES:

- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
- APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
- LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

EROSION BLANKETS SLOPE INSTALLATION

N.T.S.

NOTES:

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DO NOT SCALE DRAWINGS.

CHANNEL INSTALLATION SPECIFICATIONS

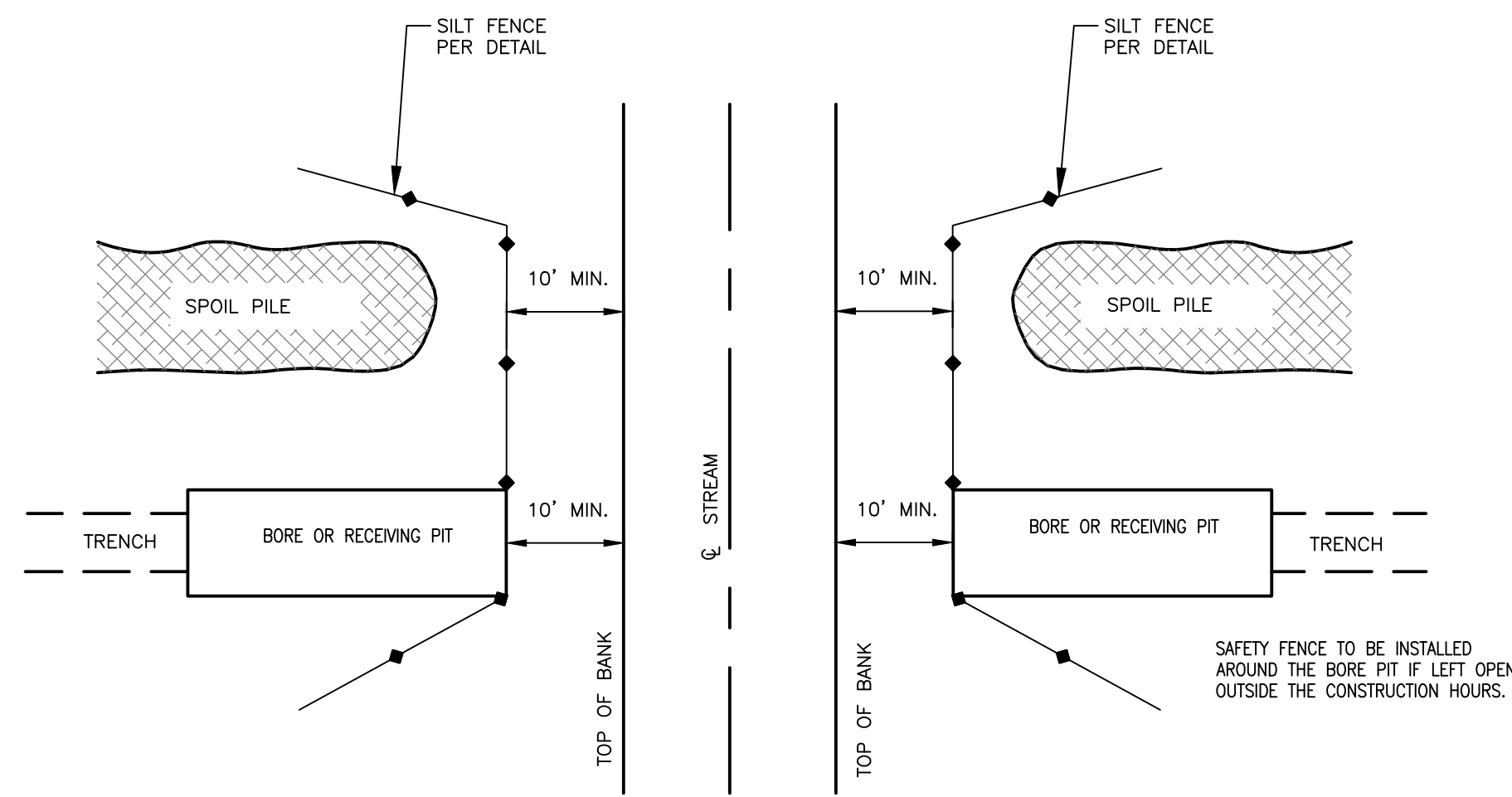
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH THE PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDENT ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.
- IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30' TO 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF CHANNEL.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- EROSION CONTROL BLANKETS INSTALLED WITHIN CHANNELS/SWALES/DITCHES SHALL BE NORTH AMERICAN GREEN SC-250 OR APPROVED EQUAL.

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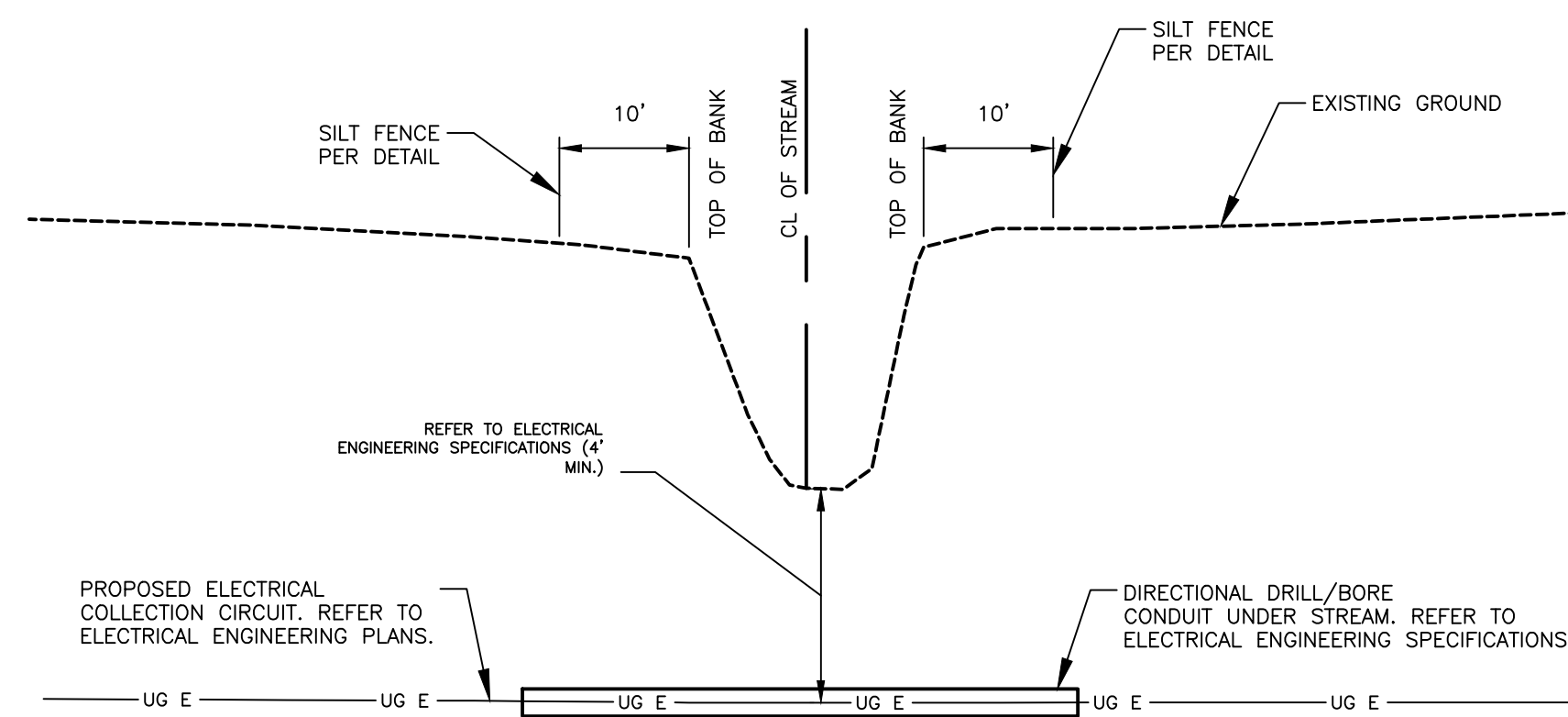
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FA PROJECT NO. 150001
 PROJECT MANAGER P. MCCARTHY
 DRAWN BY MLE
 SCALE AS SHOWN
 ISSUE DATE OCT. 2016

PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS
 TITLE OF DRAWING DETAILS-2
 DRAWING NO. DET-2
 SHEET 78 OF 81



PLAN VIEW

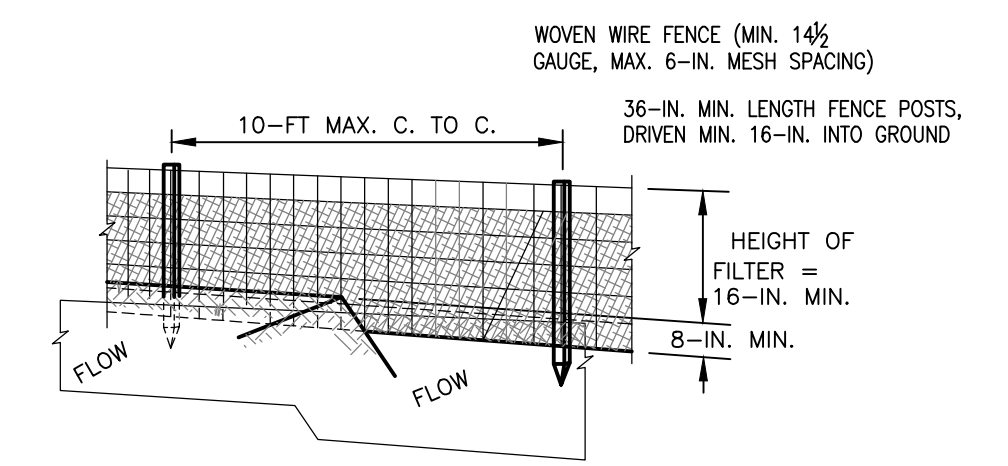


SECTION VIEW

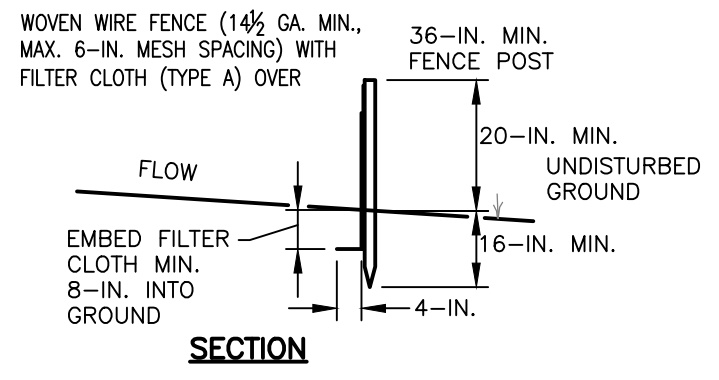
- NOTES:**
- EXCAVATED TRENCH AND BORE/RECEIVING PIT MATERIAL SHALL BE STOCKPILED ADJACENT TO THE TRENCH, NO CLOSER THAN 10' FROM THE TOP OF BANK OF THE DITCH.
 - SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILED MATERIAL AND BORE/RECEIVING PIT AND THE TOP OF BANK ON BOTH SIDES OF THE STREAM.
 - IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE, PERMANENT STABILIZATION MEASURES SHALL BE APPLIED.
 - THERE SHALL BE NO DISTURBANCE TO THE STREAM DURING CONSTRUCTION.
 - REFER TO ELECTRICAL DESIGN FOR CONDUIT DEPTH AND TRENCH DETAILS.

TYPICAL EROSION CONTROL & CLEARANCE DETAIL FOR COLLECTION LINE TRENCHLESS STREAM CROSSING

N.T.S.



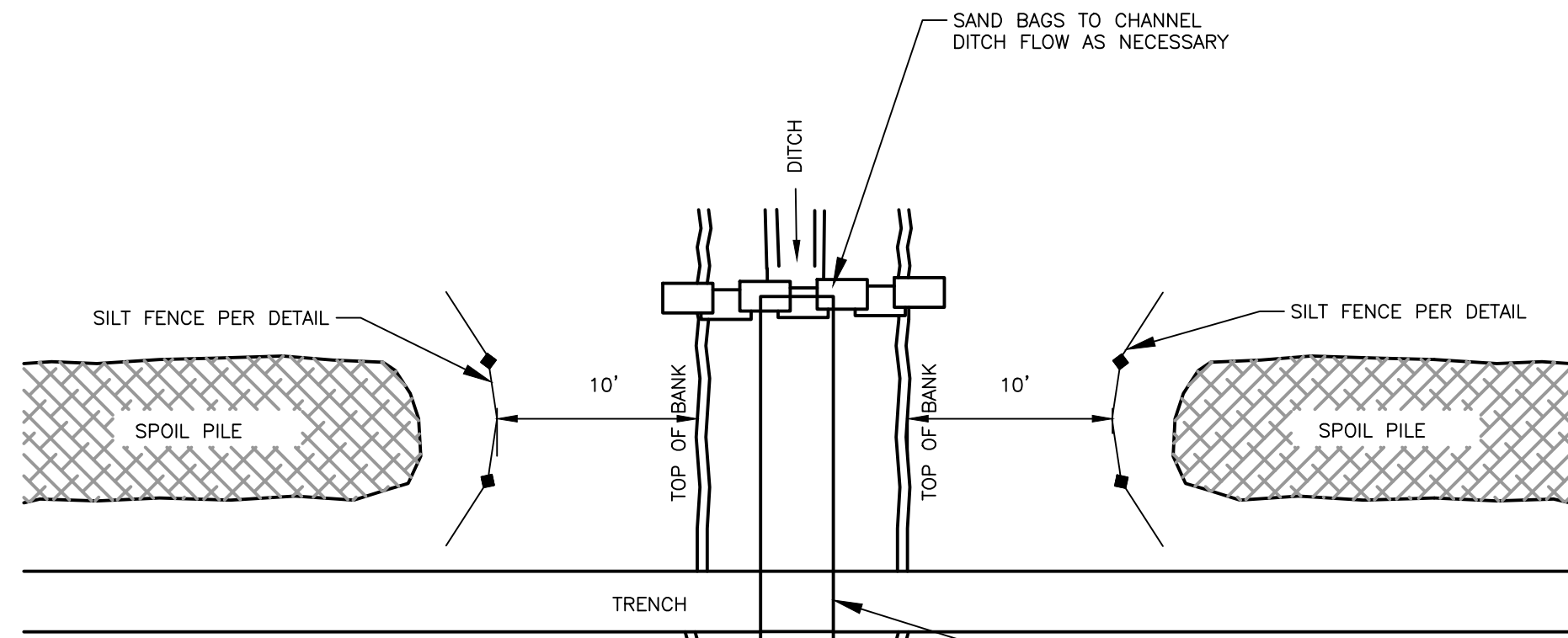
PERSPECTIVE VIEW



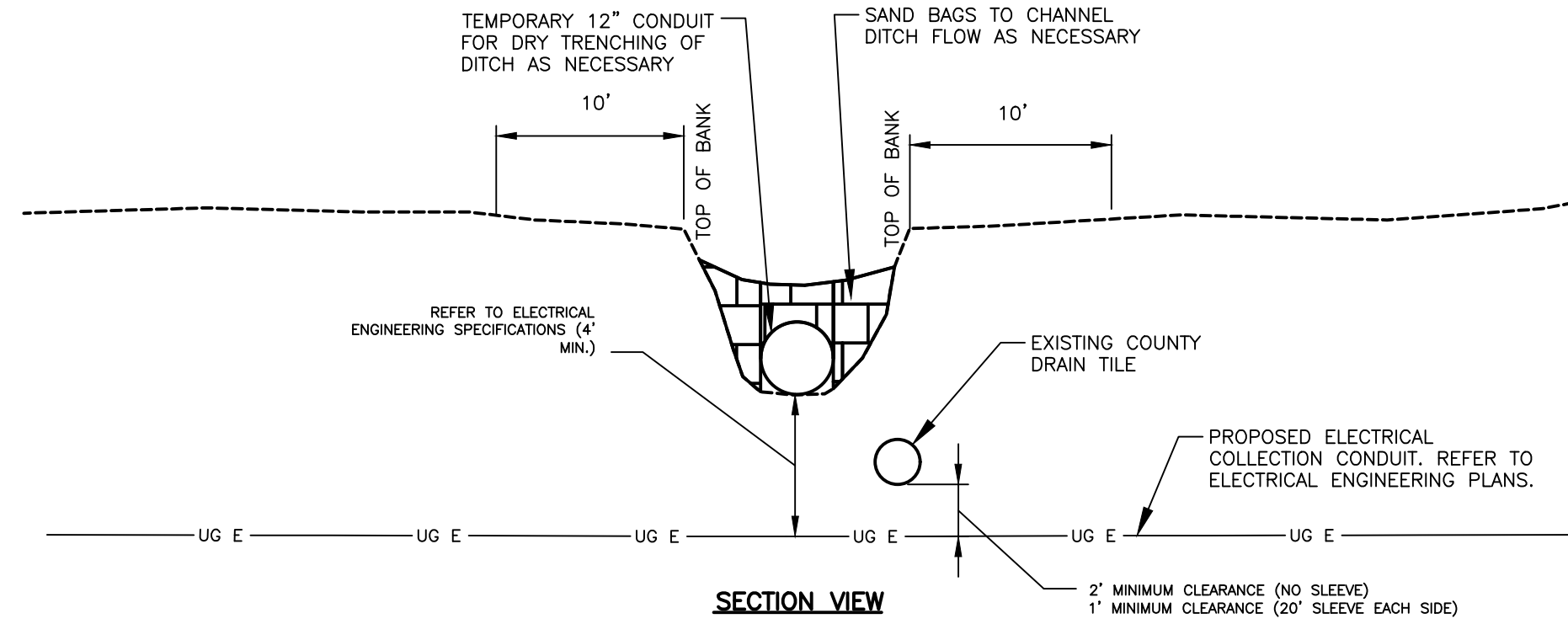
SECTION

SILT FENCE DETAIL

N.T.S.



PLAN VIEW



SECTION VIEW

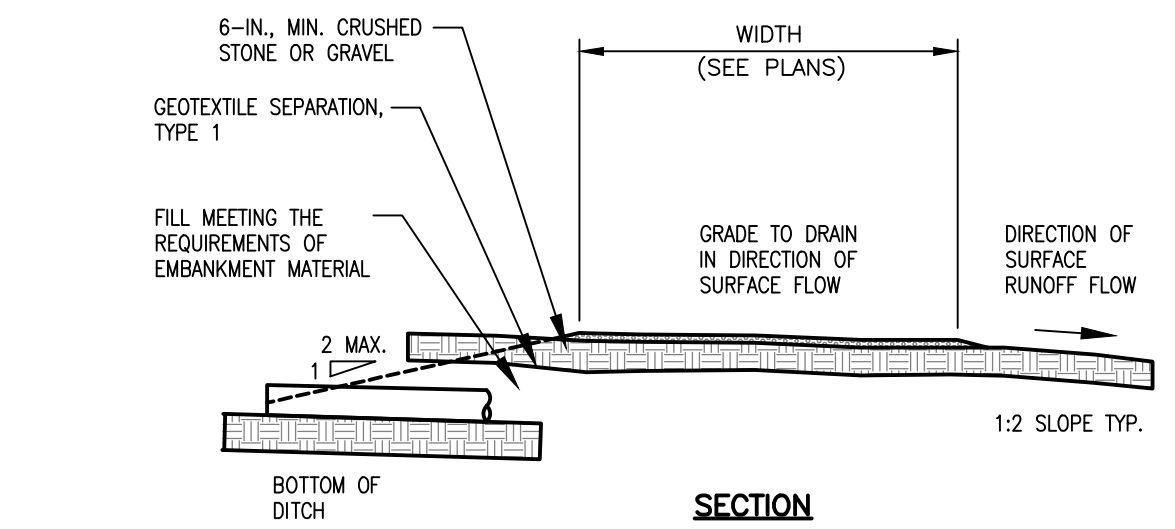
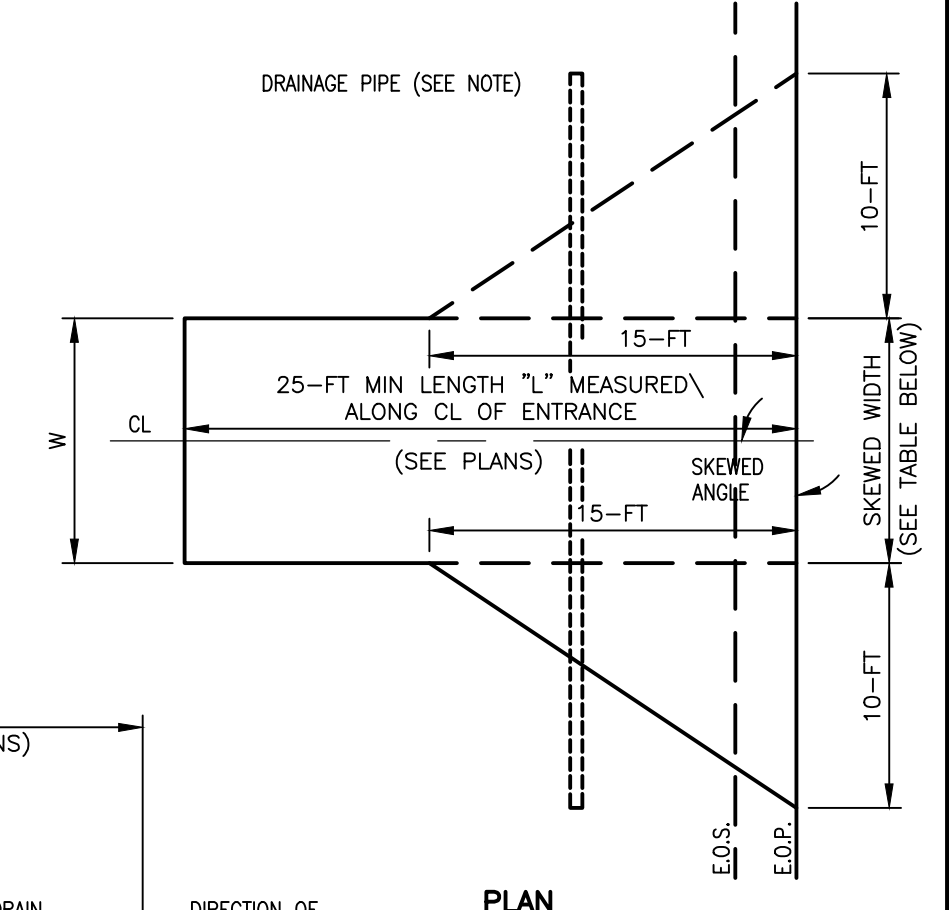
- NOTES:**
- TEMPORARY SAND BAGS AND CONDUIT ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION WITHIN THE LIMITS OF THE DITCH. IN THE EVENT THAT THE DITCH IS DRYING DURING CONSTRUCTION, SAND BAGS AND CONDUIT ARE NOT NECESSARY.
 - EXCAVATED TRENCH MATERIAL SHALL BE STOCKPILED ADJACENT TO THE TRENCH, NO CLOSER THAN 25' FROM THE TOP OF BANK OF THE DITCH.
 - SILT FENCE SHALL BE INSTALLED BETWEEN THE STOCKPILED MATERIAL AND THE TOP OF BANK OF THE DITCH.
 - IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE, PERMANENT STABILIZATION MEASURES SHALL BE APPLIED.
 - REFER TO ELECTRICAL DESIGN FOR CONDUIT DEPTH AND TRENCH DETAILS.

TYPICAL EROSION CONTROL & CLEARANCE DETAIL FOR COLLECTION LINE OPEN CUT DITCH/TILE CROSSING

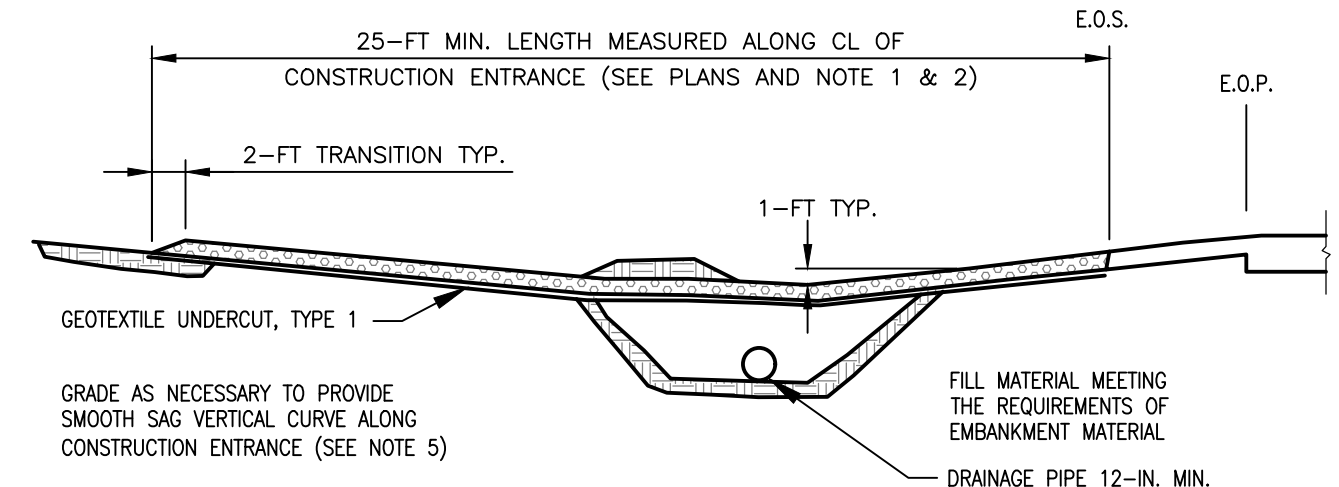
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ENTRANCE TYPE	SKEW ANGLE (°)				
	60	75	90	105	120
ONE-WAY	14.0	12.5	12.0	12.5	14.0
TWO-WAY	28.0	25.0	24.0	25.0	28.0

NOTE:
FOR CORNER ANGLES NOT SHOWN IN TABLE. SEE NYS DOT POLICY AND STANDARDS FOR ENTRANCES TO STATE HIGHWAYS, FEBRUARY 1998-11, MINOR COMMERCIAL DRIVEWAYS.



SECTION



PROFILE

- APPLICATION NOTES:**
- THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO ADJACENT CAMPUS STREETS.
- CONSTRUCTION SPECIFICATIONS:**
- MODIFICATIONS MAY BE REQUIRED TO MATCH FIELD CONDITIONS AS DIRECTED BY THE PROJECT REPRESENTATIVE.
 - A 30-FT WASH AREA SHALL BE PROVIDED CENTERED ON LOW POINT OF DRIVEWAY SAG VERTICAL CURVE. ADDITIONAL GRADING MAY BE REQUIRED TO PROVIDE WASHING AREA. WASHING SHALL BE PERFORMED AS NEEDED TO PREVENT TRACKING SEDIMENT ONTO LOCAL ROADWAYS.
 - PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS. ALTERNATE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY CONTRACTOR FOR APPROVAL BY THE PROJECT REPRESENTATIVE.
 - THE CONTRACTOR SHALL GRADE TO PREPARE AND SMOOTH ORIGINAL GROUND FOR PLACEMENT OF 0.50-FT OF #3 CRUSHED STONE ENTRANCE MATERIAL UP TO THE EDGE OF PAVEMENT.
 - THE CONTRACTOR SHALL RESTORE LAWN AND ROADWAY SHOULDER TO ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- MAINTENANCE NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS THE TRACKING OF SEDIMENT ONTO THE CAMPUS ROADWAYS. THIS CAN BE DONE BY PROVIDING TOP DRESSING OF ADDITIONAL AGGREGATE.
 - ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO THE CAMPUS OR PUBLIC ROADWAYS SHOULD BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

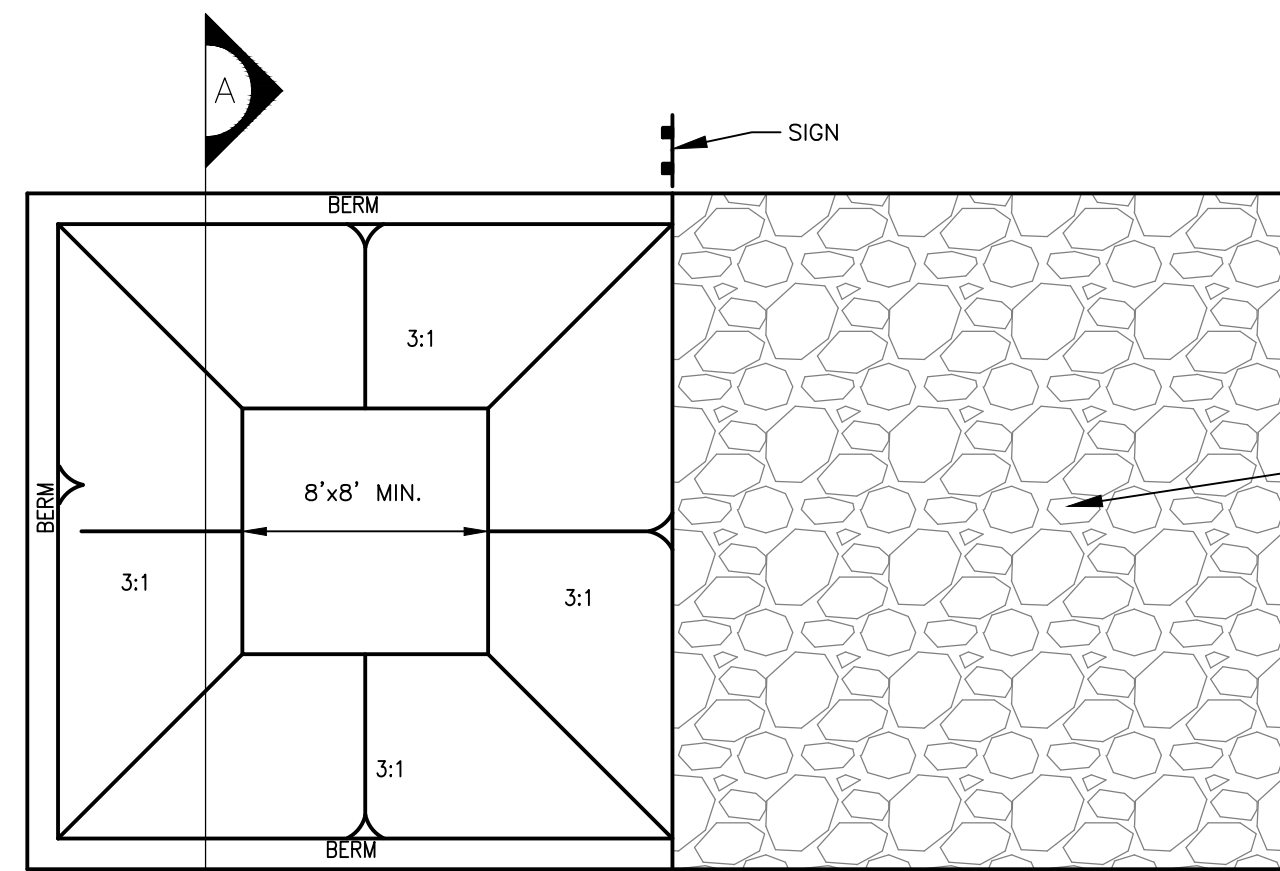
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TITLE OF DRAWING	PRELIMINARY PLANS DETAILS-3
DRAWING NO.	DET-3
SHEET	79 OF 81
DATE	
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FA PROJECT NO. 150001
PROJECT MANAGER P. MCCARTHY
DRAWN BY MLE
SCALE AS SHOWN
ISSUE DATE OCT. 2016

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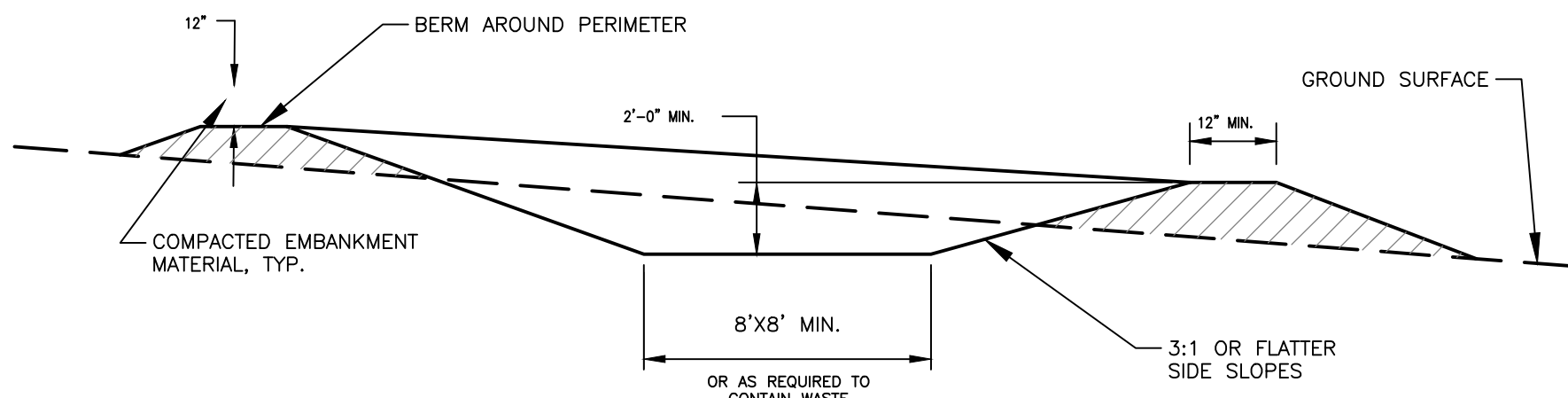
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PLAN VIEW

SEE CONSTRUCTION ENTRANCE DETAIL FOR DESIGN OF PAD



SECTION A

CONCRETE WASHOUT AREA INSTALLATION NOTES:

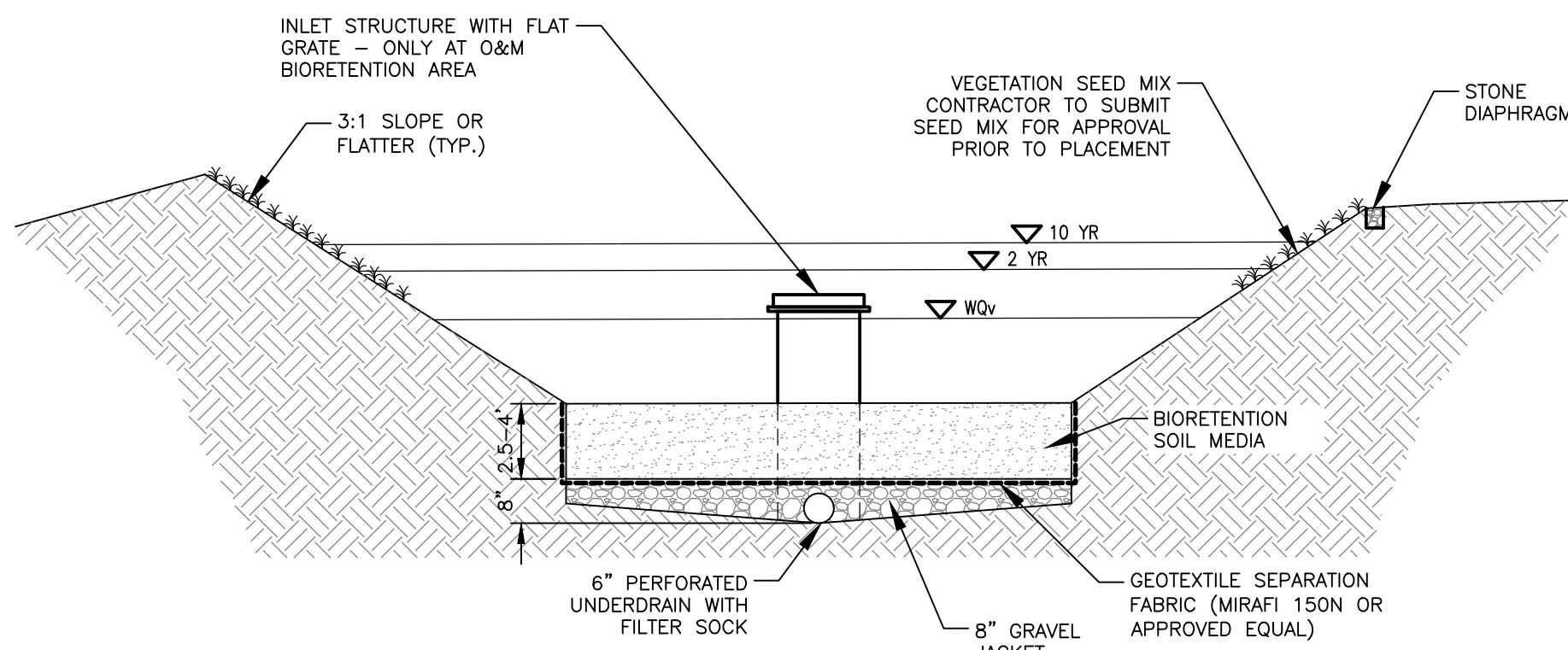
1. CONCRETE WASHOUT AREAS ARE TO BE INSTALLED AT EACH WTG PAD LOCATION, O & M BUILDING SITE, SUBSTATION SITE, LAYDOWN AREA AND WHEREVER ELSE CONCRETE IS USED FOR THE PROJECT.
2. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THE SITE.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
5. EXCAVATED MATERIAL SHALL BE UTILIZED IN PERIMETER BERM CONSTRUCTION.

CONCRETE WASHOUT AREA MAINTENANCE NOTES:

1. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
2. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
3. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, DRILL SEED AND CRIMP MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

CONCRETE WASHOUT AREA

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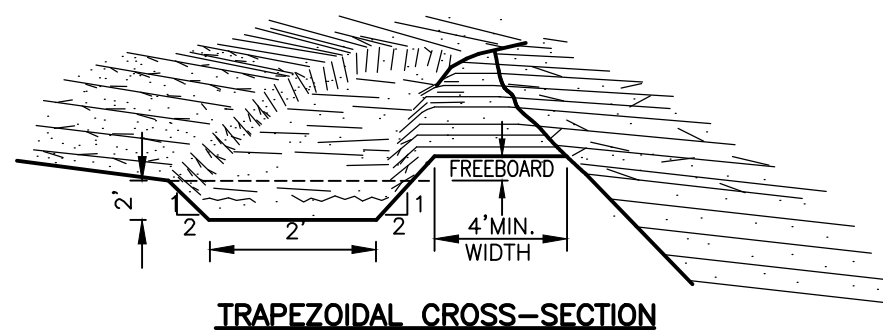


SOIL MEDIA PER NYS STORMWATER DESIGN MANUAL

PARAMETER	VALUE
PH RANGE	5.2 TO 7.00
ORGANIC MATTER	1.5 TO 4.0%
MAGNESIUM	35 LBS. PER ACRE, MINIMUM
PHOSPHORUS (P O ₄) ₅	75 LBS. PER ACRE, MINIMUM
POTASSIUM (K O ₂)	85 LBS. PER ACRE, MINIMUM
SOLUBLE SALTS	≤ 500 PPM
CLAY	10 TO 25%
SILT	30 TO 55%
SAND	35 TO 60%

BIORETENTION AREA DETAIL

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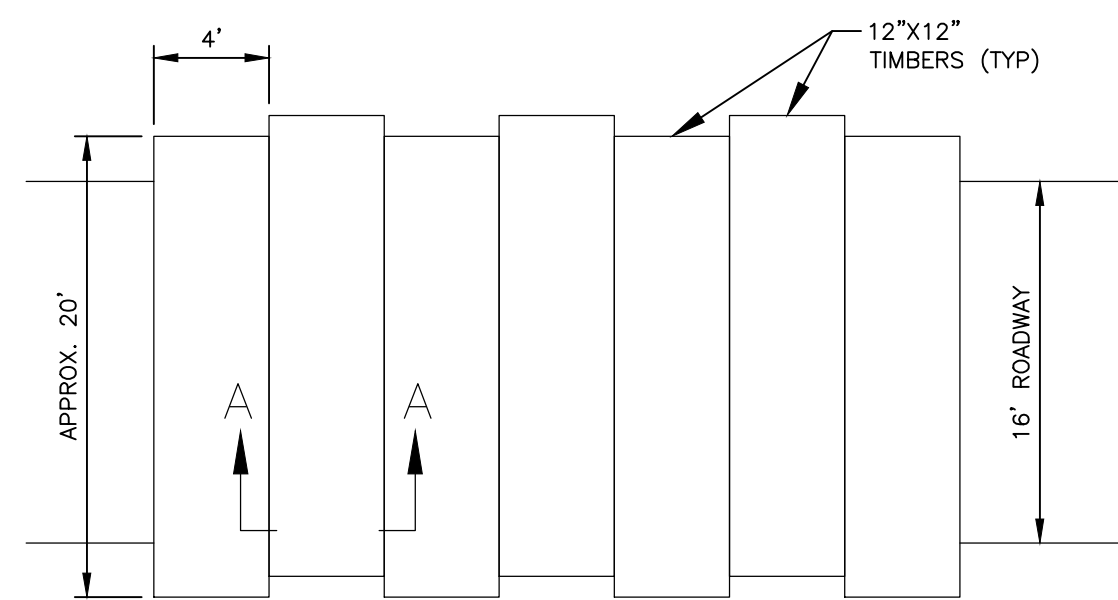
TRAPEZOIDAL CROSS-SECTION

CONSTRUCTION SPECIFICATIONS

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
 - 5.A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE DIVERSION DURING THE ESTABLISHMENT OF THE VEGETATION.
 - 5.B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER SEC., THE DIVERSION SHALL BE STABILIZED WITH SOIL, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.

DIVERSION SWALE DETAIL

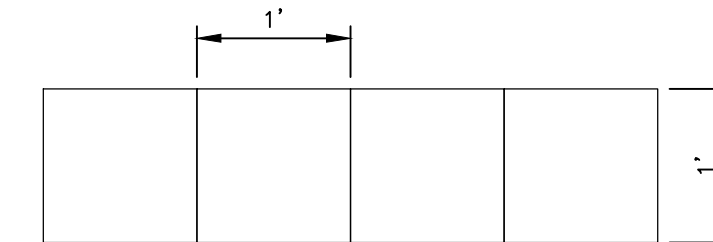
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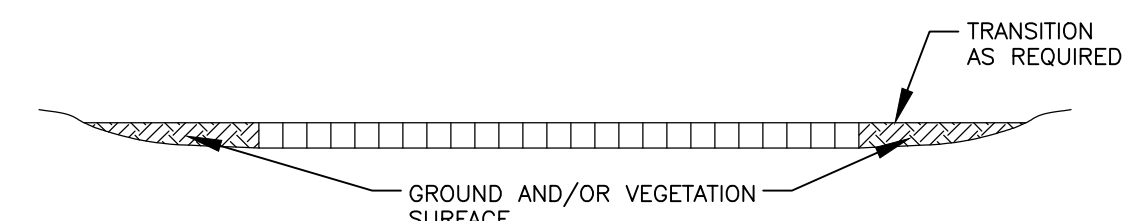
TYPICAL PLAN VIEW

NOTES:

1. TO BE INSTALLED IF NECESSARY TO PREVENT RUTTING, TO ACCESS STRUCTURES.
2. THIS DETAIL SHOWS TYPICAL DIMENSIONS. SOME CONTRACTORS SWAMP MATS ARE DIMENSIONALLY DIFFERENT FROM WHAT IS SHOWN HERE.
3. DEPENDENT ON SITE CONDITIONS, MULTIPLE LAYERS OF SWAMP MATS MAY BE INSTALLED.



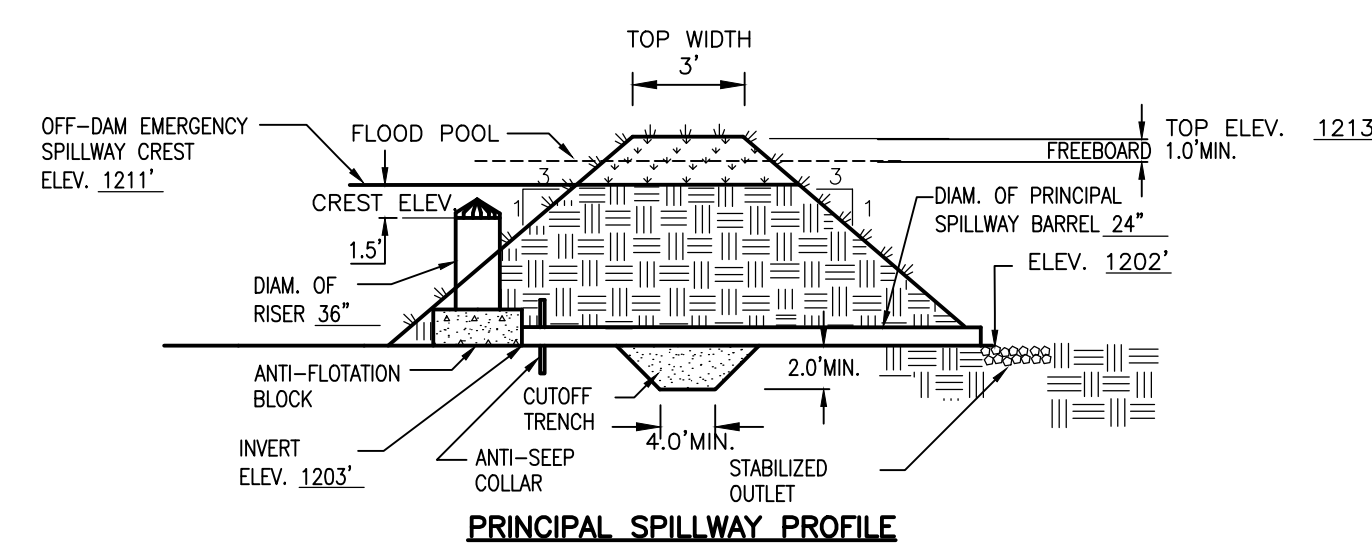
SECTION A-A TYPICAL MAT SECTION



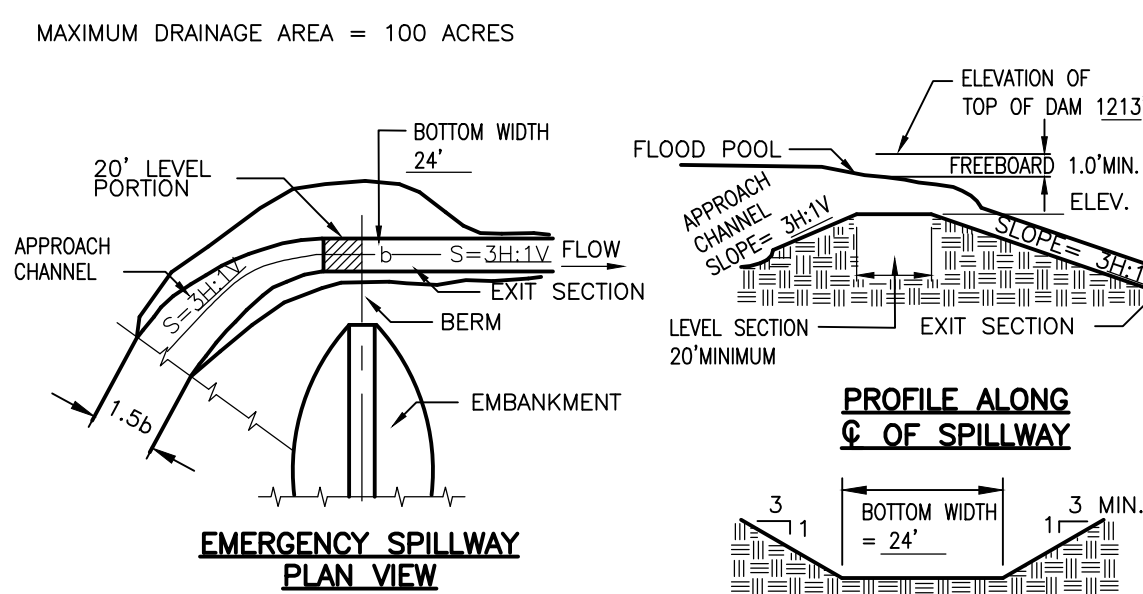
TYPICAL SECTION VIEW

TYPICAL SWAMP MAT DETAIL

N.T.S.



PRINCIPAL SPILLWAY PROFILE



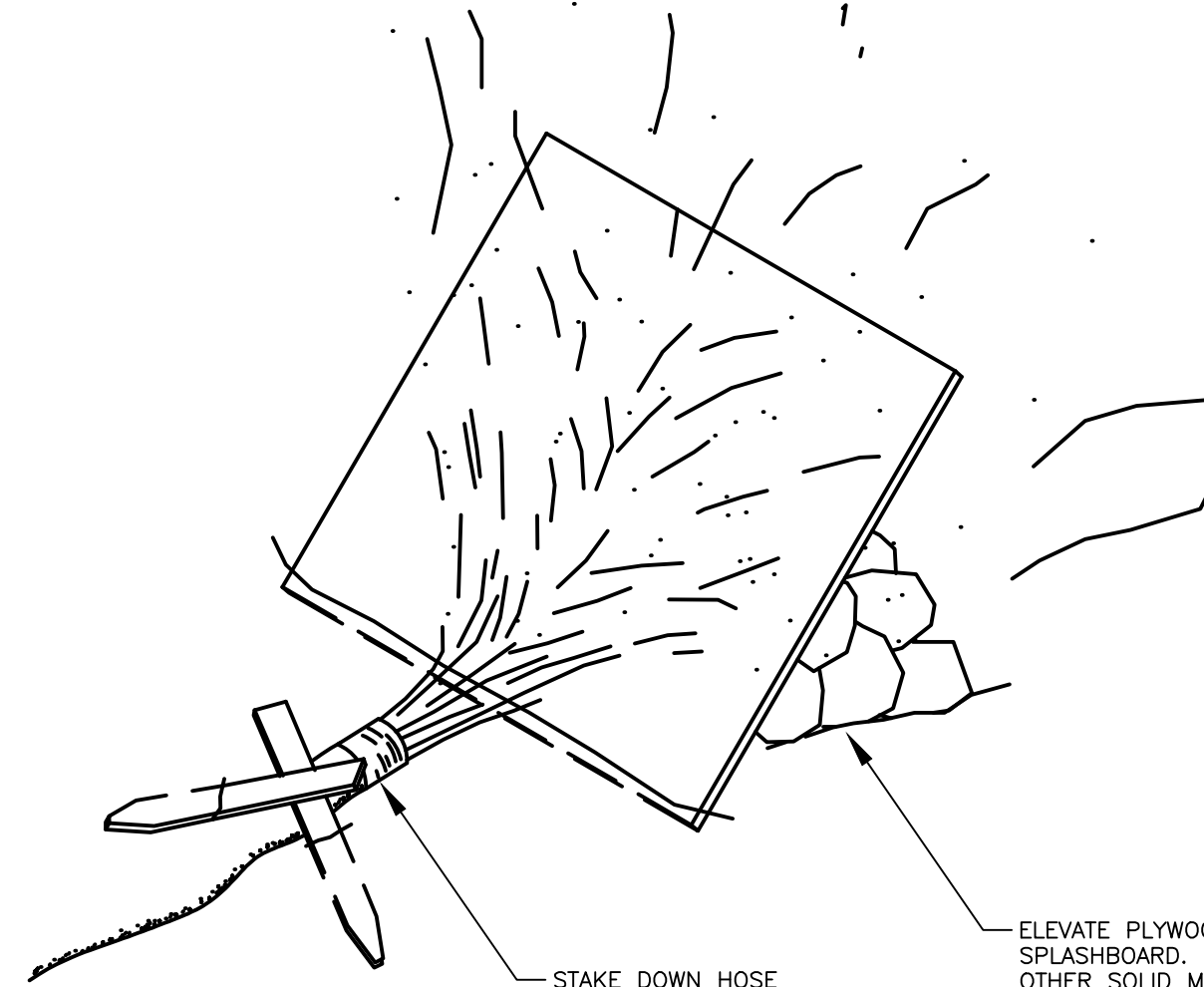
EMERGENCY SPILLWAY PLAN VIEW

PROFILE ALONG C OF SPILLWAY

CROSS SECTION AT CONTROL SECTION

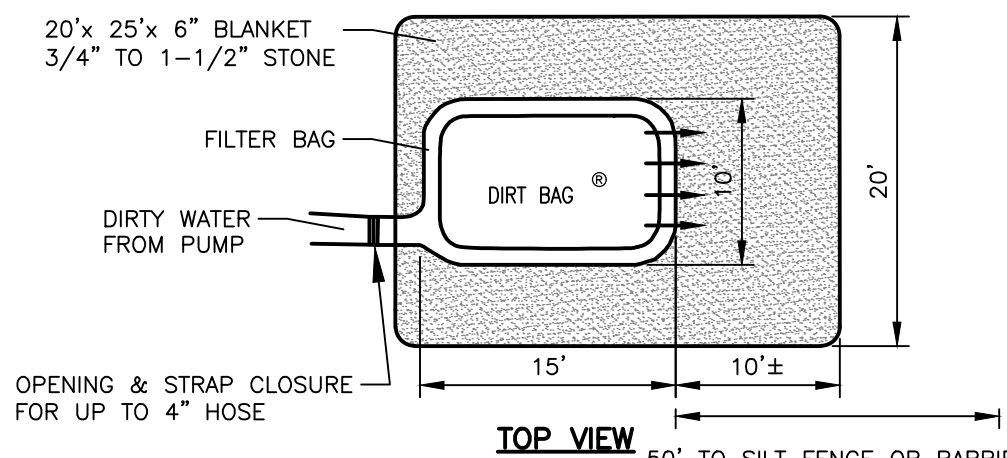
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SEDIMENT BASIN DETAIL

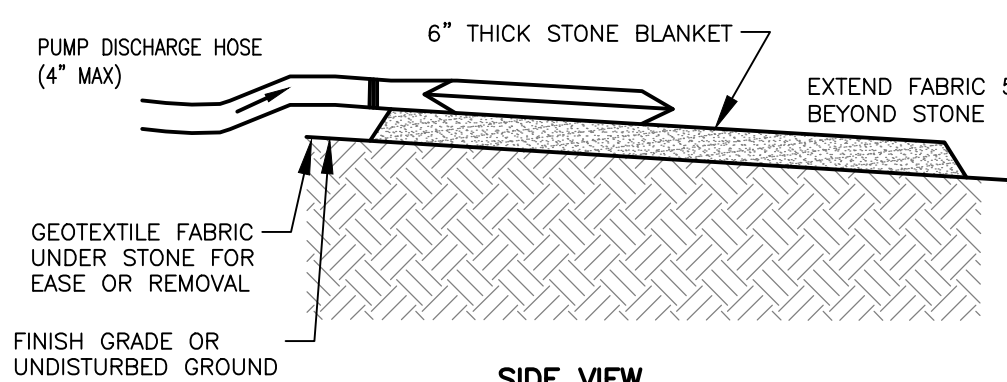


DEWATERING ENERGY DISSIPATOR OUTLET OPTION

N.T.S.



TOP VIEW



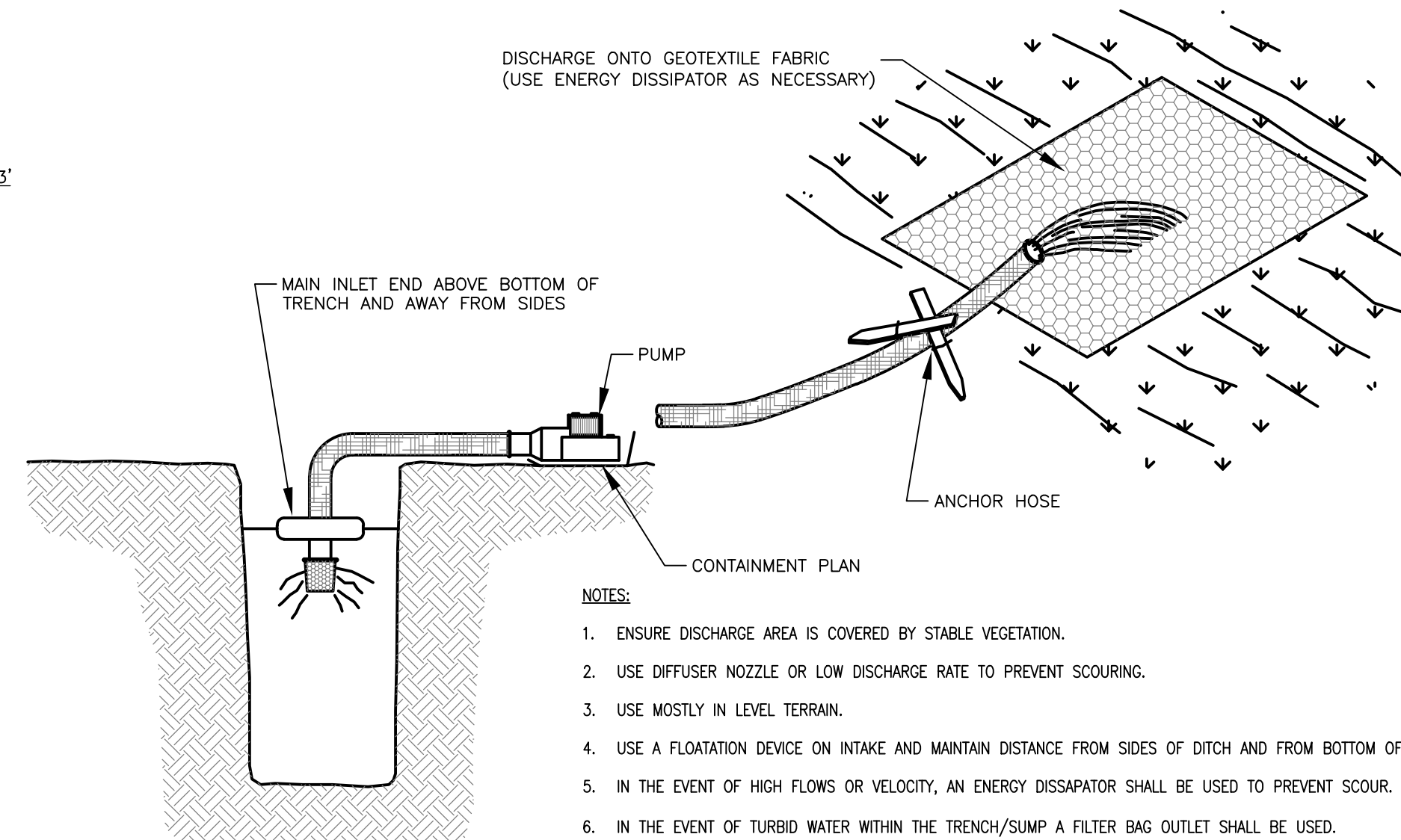
SIDE VIEW

NOTES:

1. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E. FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
2. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
3. LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
4. DOWN GRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION. E.G. FOREST FLOOR OR COARSE GRAVEL/STONE.
5. DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY. SECONDARY CONTAINMENT MAY BE NECESSARY.

PUMPED DISCHARGE SEDIMENT CONTROL DEVICE ("DIRT BAG")

N.T.S.



NOTES:

1. ENSURE DISCHARGE AREA IS COVERED BY STABLE VEGETATION.
2. USE DIFFUSER NOZZLE OR LOW DISCHARGE RATE TO PREVENT SCOURING.
3. USE MOSTLY IN LEVEL TERRAIN.
4. USE A FLOTATION DEVICE ON INTAKE AND MAINTAIN DISTANCE FROM SIDES OF DITCH AND FROM BOTTOM OF DITCH.
5. IN THE EVENT OF HIGH FLOWS OR VELOCITY, AN ENERGY DISSIPATOR SHALL BE USED TO PREVENT SCOUR.
6. IN THE EVENT OF TURBID WATER WITHIN THE TRENCH/SUMP A FILTER BAG OUTLET SHALL BE USED.

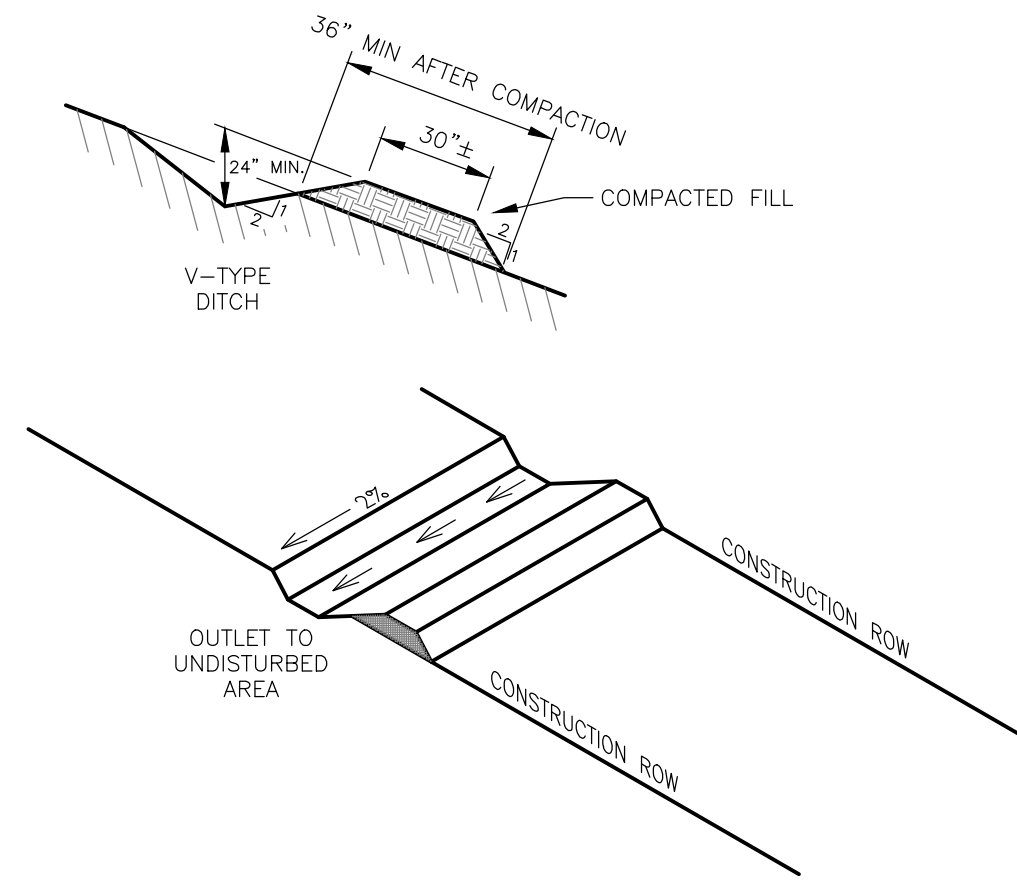
DEWATERING OPERATION WITH SURFACE STABILIZED OUTLET OPTION

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FA PROJECT NO.	150001	REV	
PROJECT MANAGER	P. MCCARTHY	1	
DRAWN BY	MILE	2	
SCALE	AS SHOWN	3	
ISSUE DATE	OCT. 2016	4	
ISSUE NO.		5	
FA PROJECT NO.	150001	6	
PROJECT MANAGER	P. MCCARTHY	7	
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			
FA PROJECT NO.	150001		
PROJECT MANAGER	P. MCCARTHY		
DRAWN BY	MILE		
SCALE	AS SHOWN		
ISSUE DATE	OCT. 2016		
ISSUE NO.			

DET-4



SPACING	
SLOPE	DISTANCE
10%	80 FEET
15%	60 FEET
20%	45 FEET

APPLICATION NOTES:

1. THE PRIMARY PURPOSE OF SLOPE BREAKERS IS TO LIMIT THE ACCUMULATION OF EROSION VELOCITY OF WATER BY DIVERTING SURFACE RUNOFF AT PRE-DESIGNED INTERVALS.
2. SLOPE BREAKERS SHALL BE PLACED ALONG LONG NARROW SLOPING AREAS THAT ARE LESS THAN 100-FT IN WIDTH AND SHALL BE SPACED IN ACCORDANCE WITH THE CHART SHOWN ABOVE.

CONSTRUCTION SPECIFICATIONS:

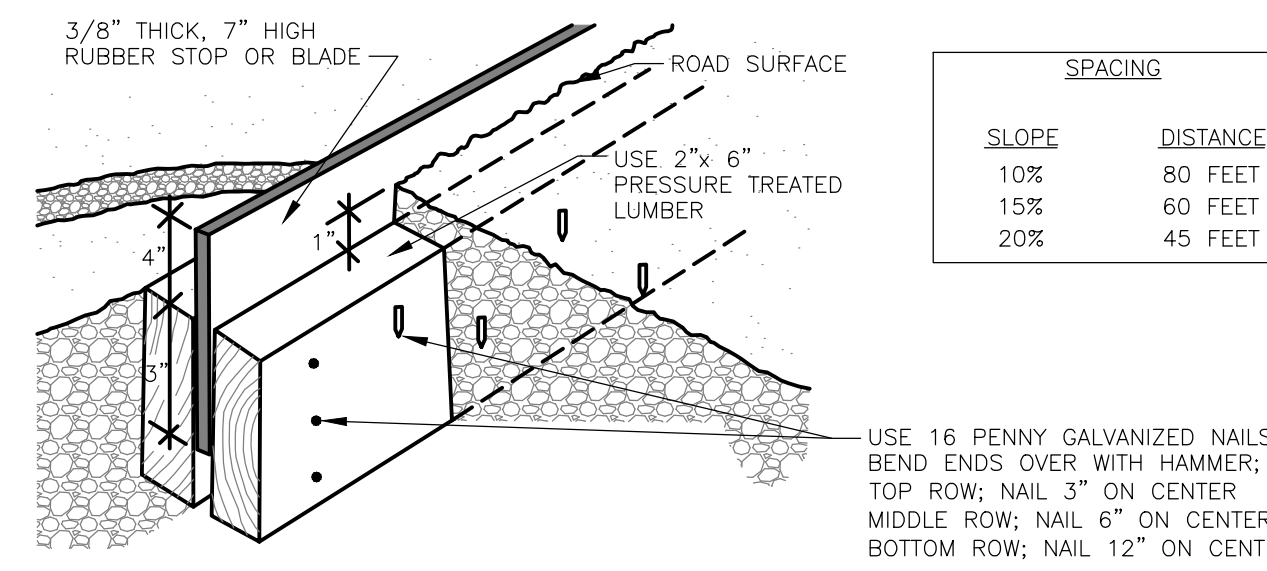
1. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
2. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
3. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.

MAINTENANCE NOTES:

1. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

SLOPE BREAKER DETAIL

NOT TO SCALE



SPACING	
SLOPE	DISTANCE
10%	80 FEET
15%	60 FEET
20%	45 FEET

APPLICATION NOTES:

1. THE PRIMARY PURPOSE OF RUBBER BARS IS TO LIMIT THE ACCUMULATION OF EROSION VELOCITY OF WATER BY DIVERTING SURFACE RUNOFF AT PRE-DESIGNED INTERVALS.
2. RUBBER BARS SHALL BE PLACED ALONG LONG NARROW SLOPING AREAS THAT ARE LESS THAN 100-FT IN WIDTH AND SHALL BE SPACED IN ACCORDANCE WITH THE CHART SHOWN ABOVE.

CONSTRUCTION SPECIFICATIONS:

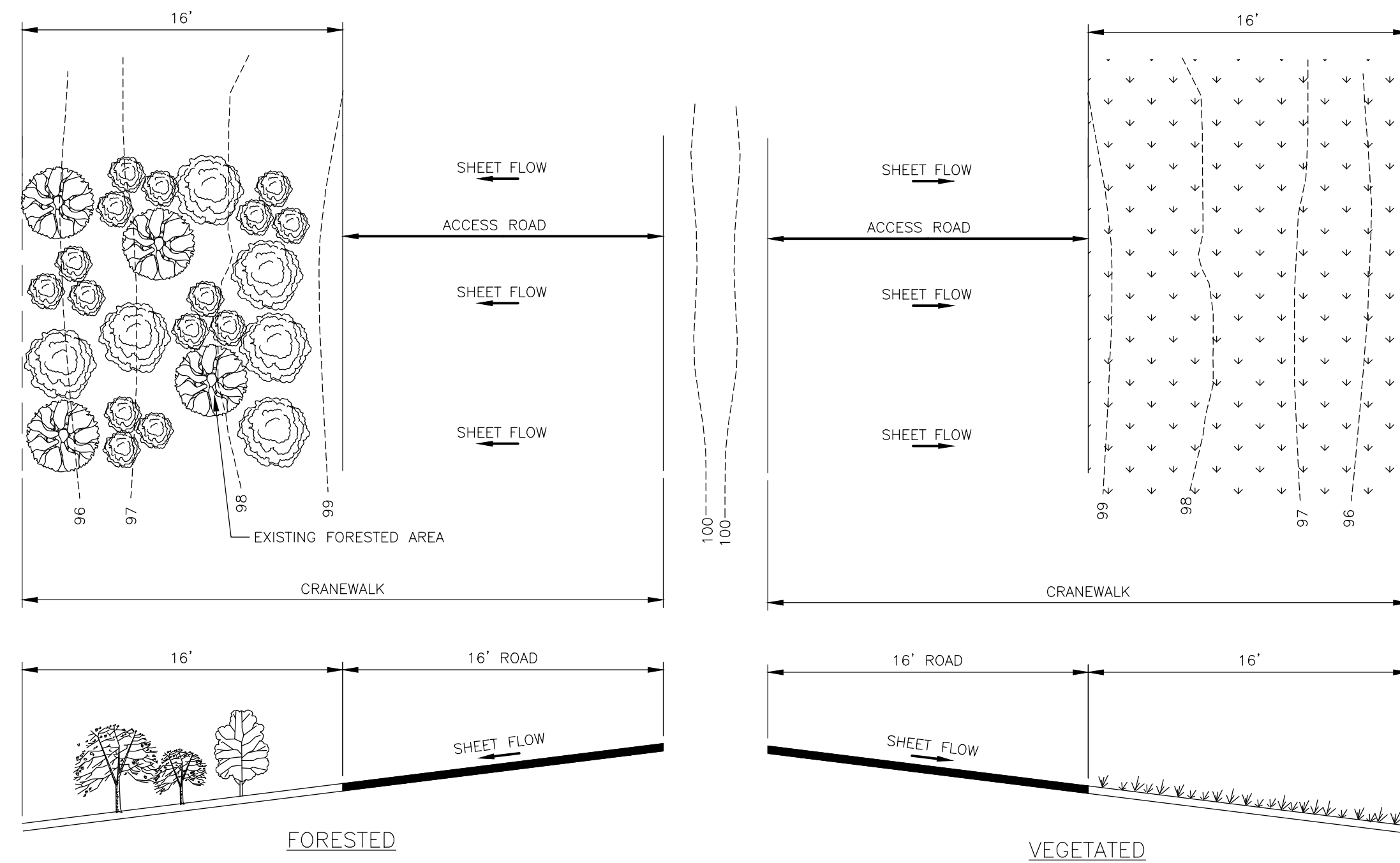
1. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
2. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
3. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.

MAINTENANCE NOTES:

1. PERIODICALLY INSPECT RUBBER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

RUBBER BAR DETAIL

NOT TO SCALE

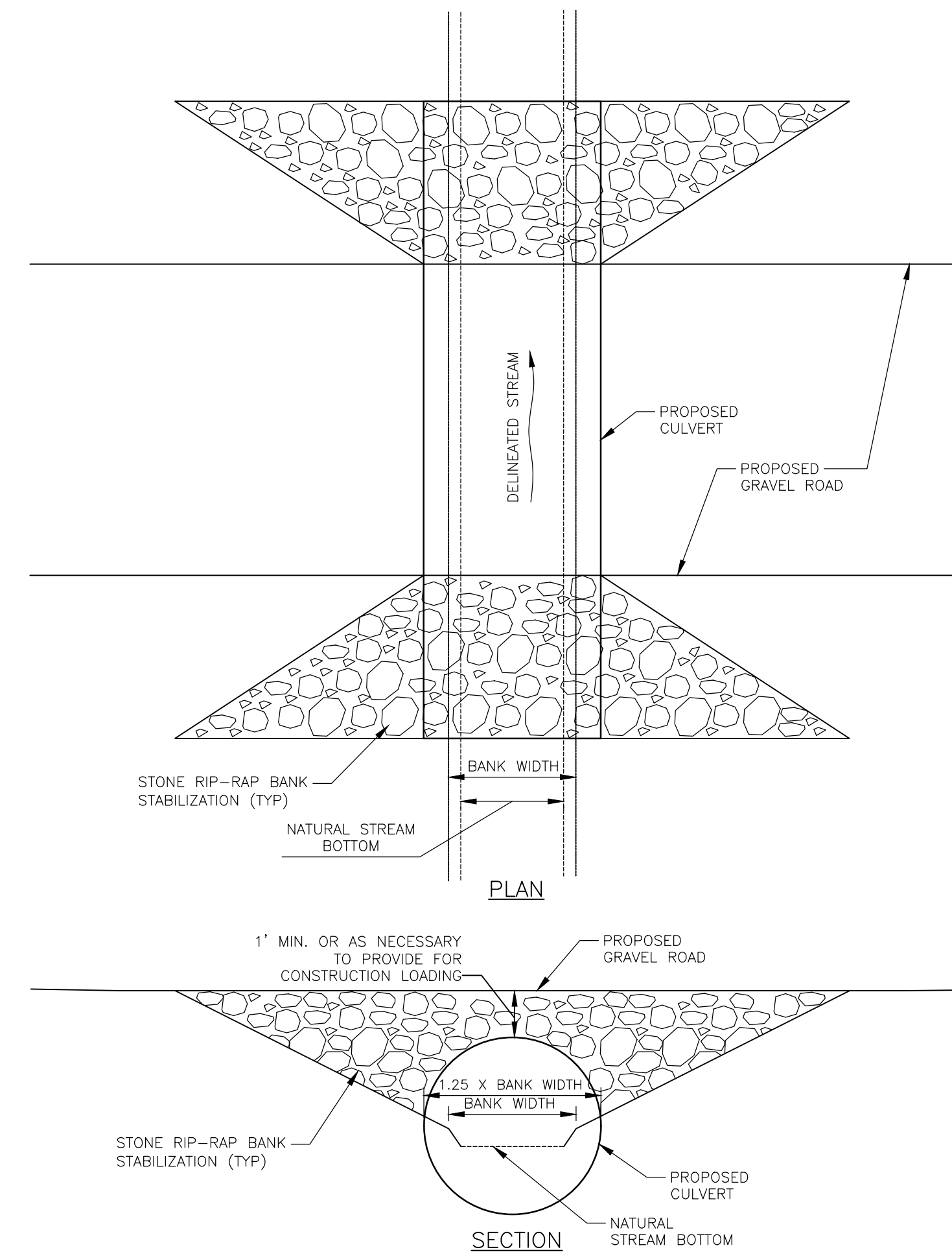


NOTES:

1. ROAD MUST BE GENERALLY PARALLEL TO THE CONTOURS OF THE SLOPE AND GRADED TO MAINTAIN SHEET FLOW TO THE FILTER STRIP.
2. IF FILTER STRIP AREA IS DISTURBED DURING CONSTRUCTION, AREA SHALL BE DECOMPACTED, TOPSOIL SHALL BE INSTALLED AND SEEDED.
3. FILTER STRIP SHALL REMAIN VEGETATED FOR THE LIFE OF THE PROJECT.
4. FILTER STRIP WIDTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE IMPERVIOUS AREAS DRAINING TO IT.

FILTER STRIP DETAIL

N.T.S.



PERMANENT CULVERT AT REGULATED STREAM CROSSINGS

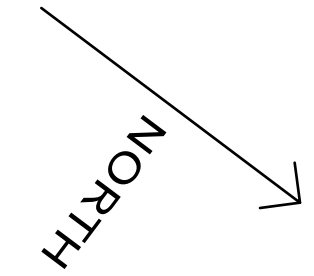
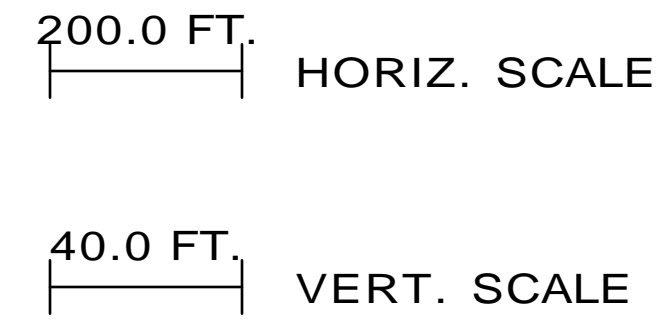
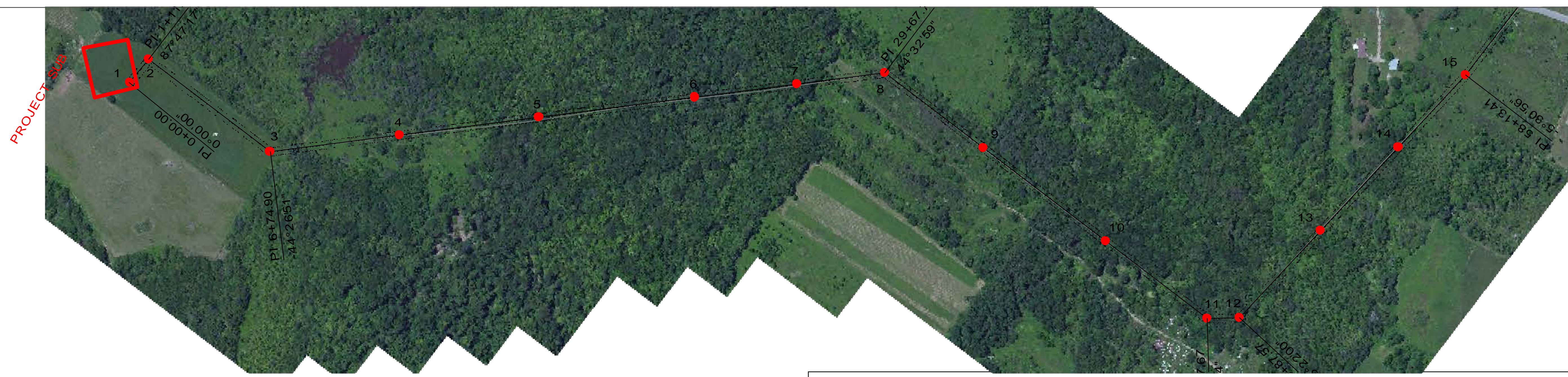
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USER: Steven Mellat

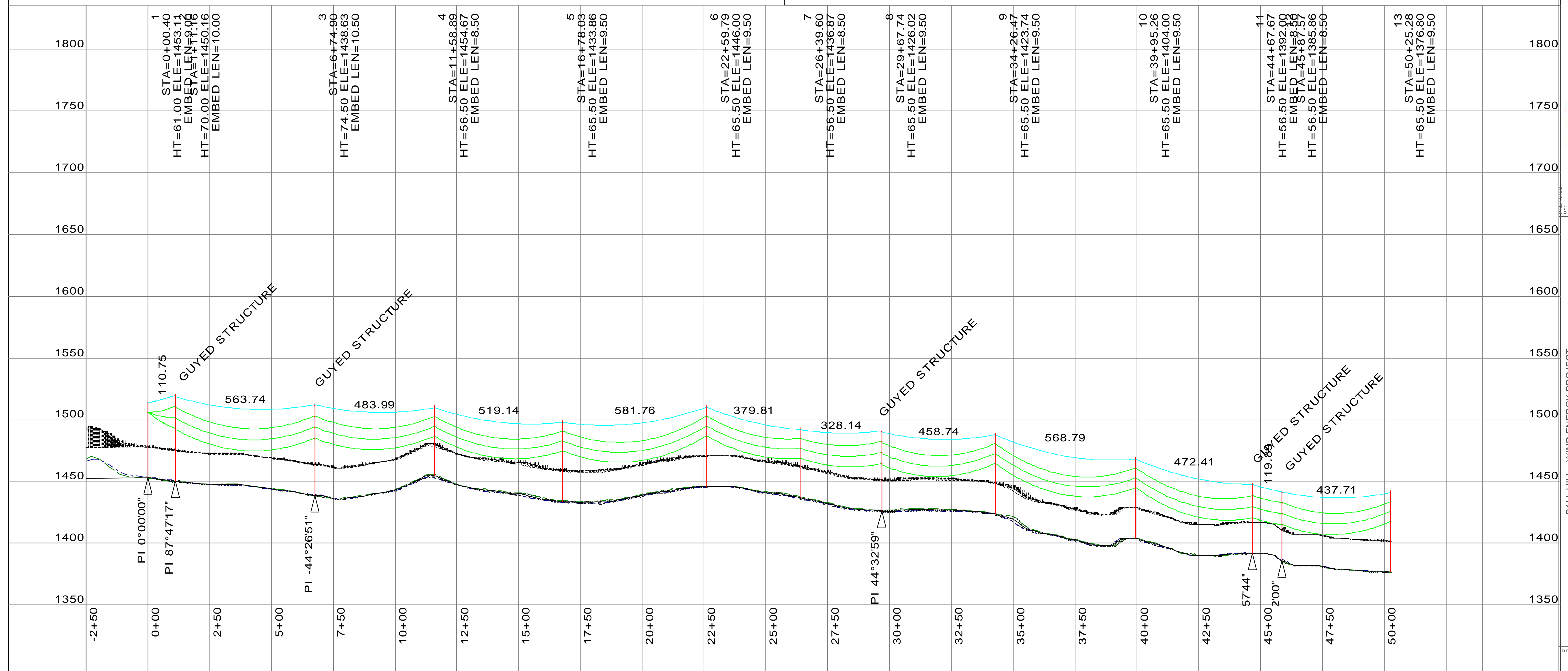
PROJECT BALL HILL WIND FARM TOWNS OF HANOVER & VILLENOVA CHAUTAQUA COUNTY, NY PRELIMINARY PLANS		TITLE OF DRAWING DETAILS-5		DRAWING NO. DET-5
PROJECT MANAGER P. MCCARTHY		DRAWN BY MLE		SCALE AS SHOWN
FA PROJECT NO. 150001		ISSUE DATE OCT. 2016		DATE
PROJECT MANAGER P. MCCARTHY		SCALE AS SHOWN		BY
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7				
6				
5				
4				
3				
2				
1				



C-2 Project Drawings – Transmission Portion



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



DRAWING

INFORMATION SHOWN IS SUBJECT TO CHANGE. NOT FOR CONSTRUCTION

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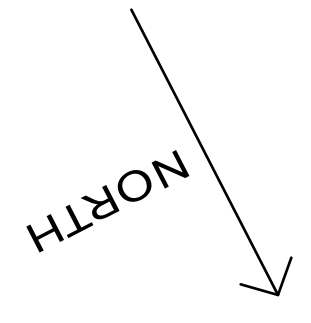
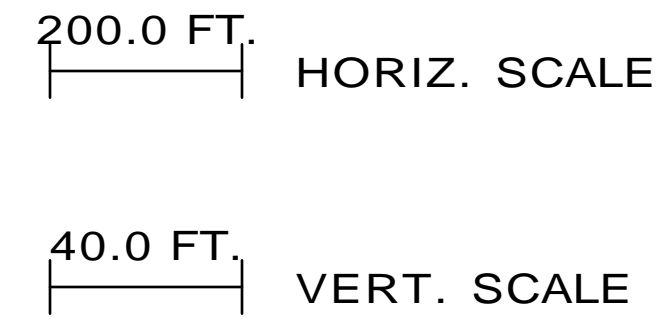
RES AMERICA CONSTRUCTION, INC.
11001 W. 120TH AVE., SUITE 8000, BROOMFIELD, CO 80020
TELEPHONE: 303.492.4200 FAX: (303)

STA -2+50 TO STA 50+29
STR 1 TO STR 13

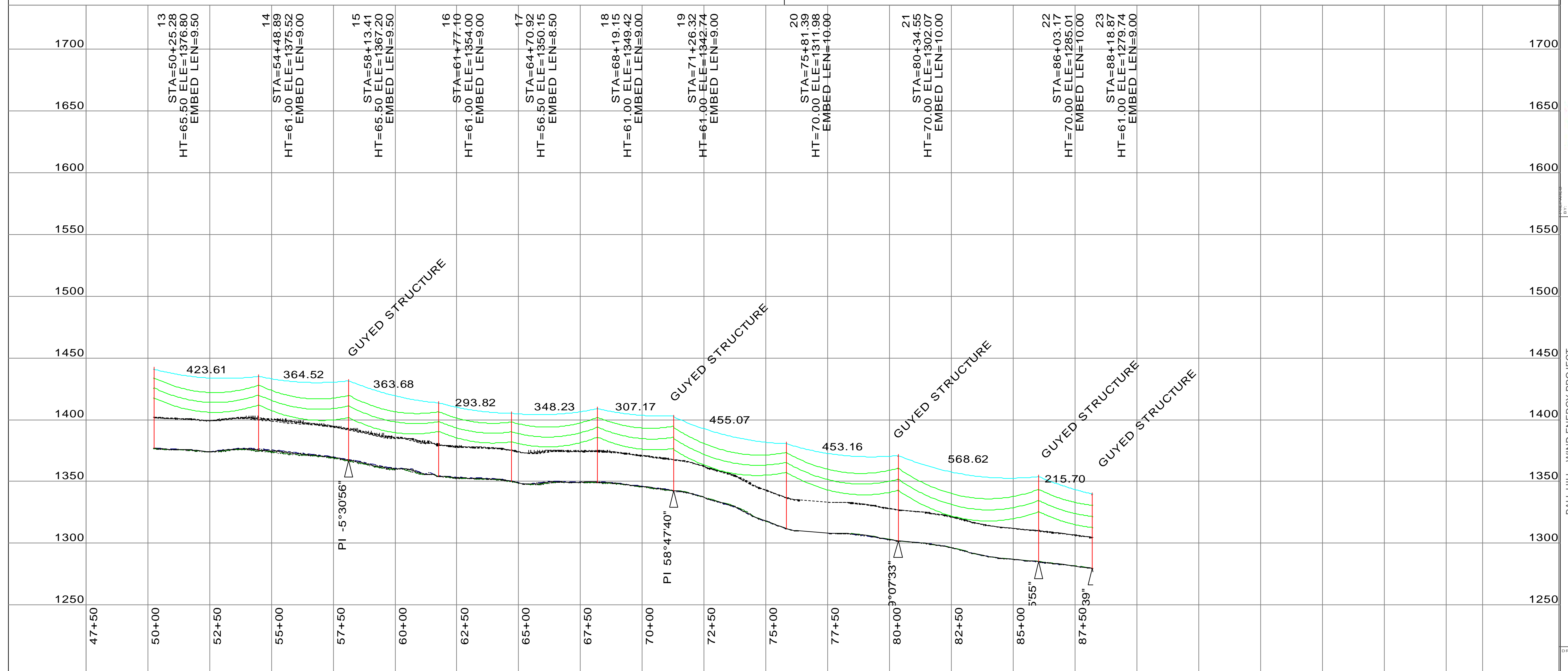
BALL HILL - WIND ENERGY PROJECT

CHAUTAQUA COUNTY, NEW YORK

DRAWING NUMBER: 1 OF 7



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



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PROJECT NO: WTG LAYOUT#XXXXXXXXXX

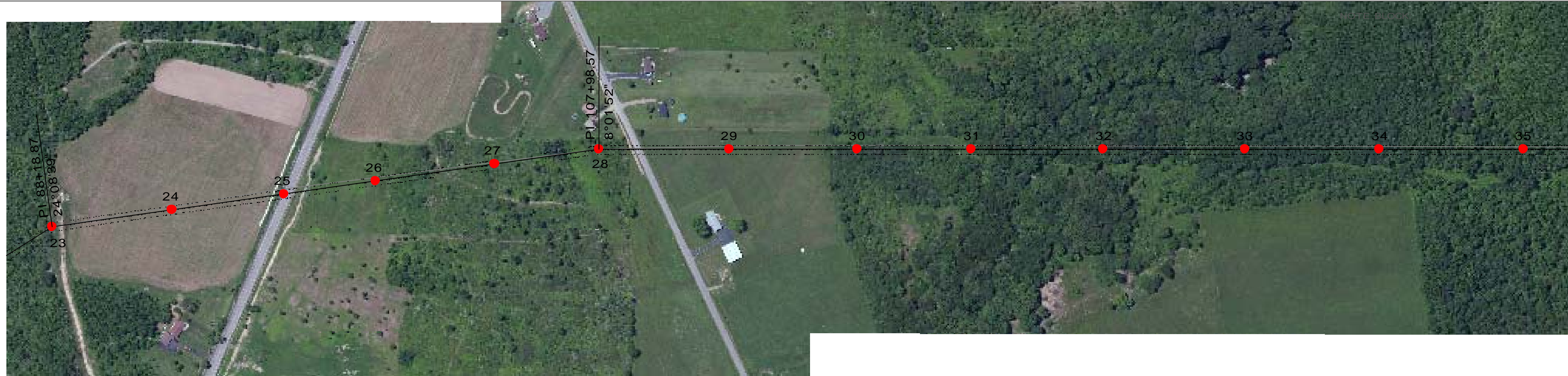
RES AMERICA CONSTRUCTION, INC.
1101 W. 120TH AVE. SUITE 8022, BOULDER, CO 80504
TELEPHONE: 303.442.4200 FAX: (303) 442.4201

BALL HILL - WIND ENERGY PROJECT

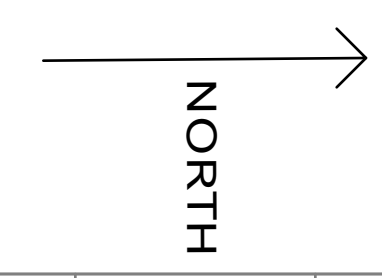
STA 47+50 TO STA 88+22
STR 13 TO STR 23

CHAUTAQUA COUNTY, NEW YORK

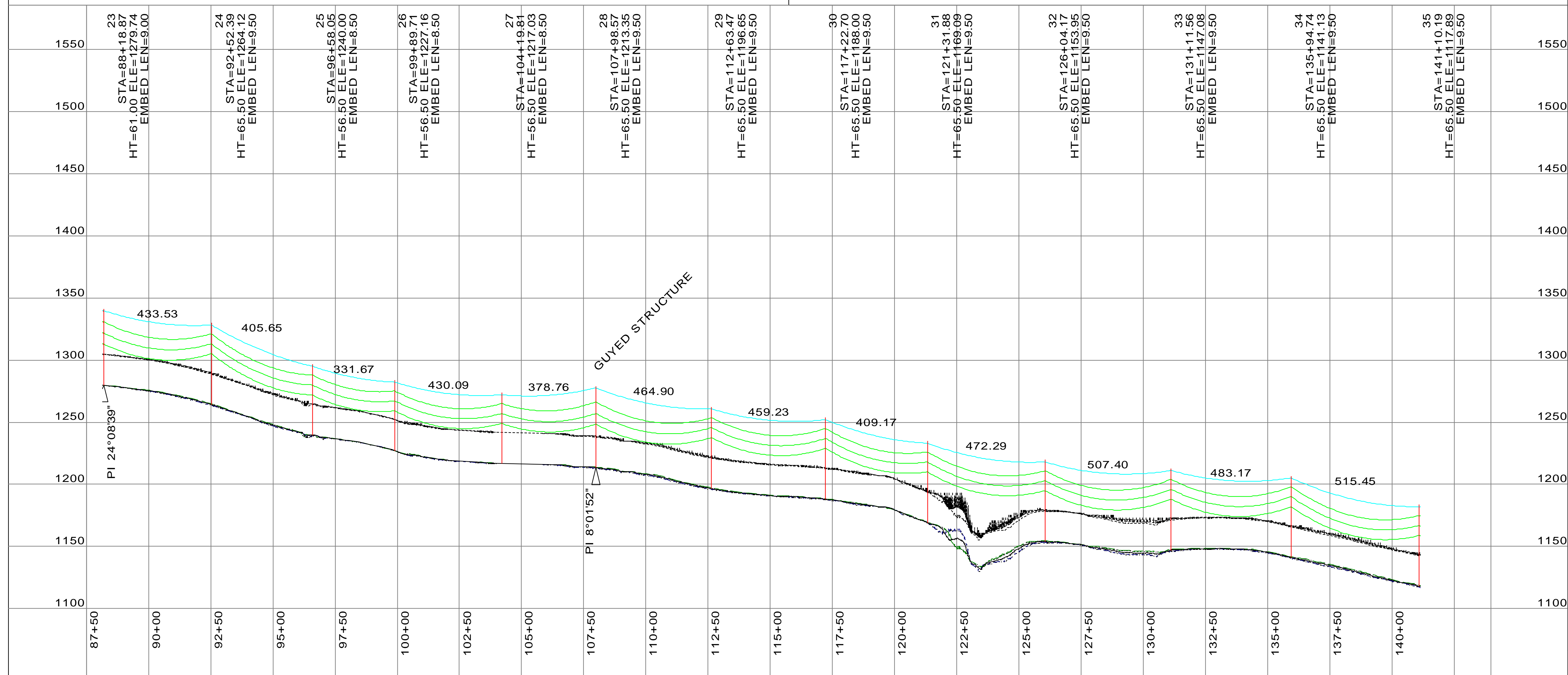
DRAWING NUMBER: 2 OF 7



200.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



DRAWING

INFORMATION SHOWN IS SUBJECT TO CHANGE. NOT FOR CONSTRUCTION

PROJECT NO: WTG LAYOUT 1606XXXXXX
 COORD. SYSTEM: STATE PLANE NAD83 3103 NEW YORK WEST

RES AMERICA CONSTRUCTION, INC.
 1101 W. 120TH AVE. SUITE 200, BROOMFIELD, CO
 TELEPHONE: 303-439-4200 FAX: (303)

BY: BALL HILL - WIND ENERGY PROJECT
 STA 87+50 TO STA 141+13
 STR 23 TO STR 35
 CHAUTAQUA COUNTY, NEW YORK

DRAWING NUMBER: 3 OF 7

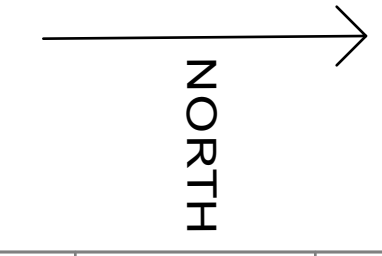
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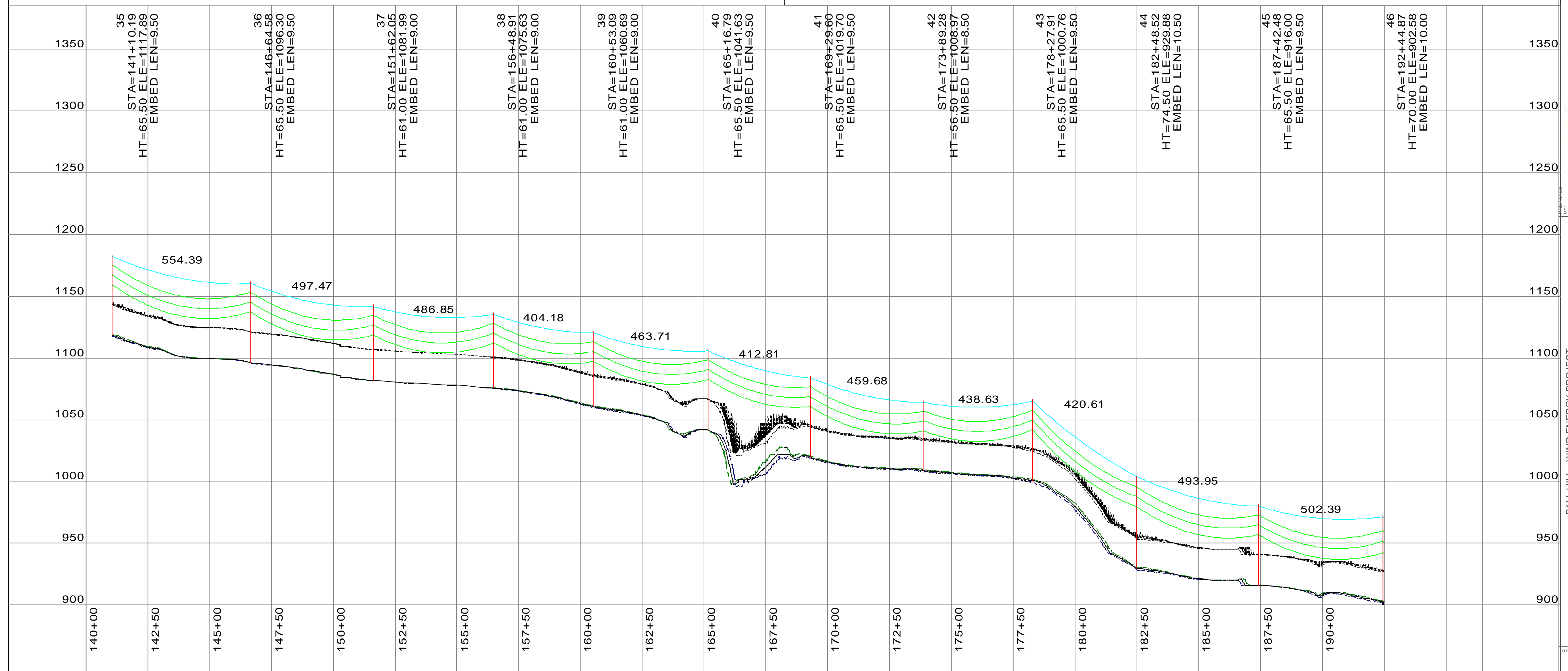
200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE



NOTES

- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
- 2) OPGW SHOWN AT 120° F
- 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
- 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



INFORMATION SHOWN IS SUBJECT TO CHANGE. NOT FOR CONSTRUCTION
PROJECT NO: WTG LAYOUT#XXXXXXXX
COORD. SYSTEM: STATE PLANE NAD83 3103 NEW YORK WEST
PURPOSE: RES DESIGN
DATE: 8/04/2024
DESCRIPTION: 8041 RES 10% DESIGN
JTL JTL JTL CLC
DRAWN BY: JTL
CHECKED BY: JTL

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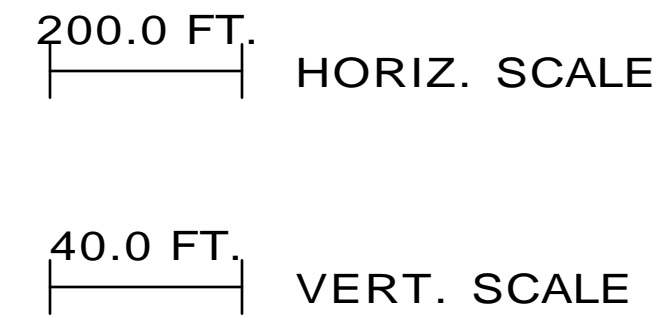
RES AMERICA CONSTRUCTION, INC.
 11101 W. 120TH AVE. SUITE 8002, OGDEN, CO 80424
 TELEPHONE: 303.462.4292 FAX: (303) 462.4293

BY: BALL HILL - WIND ENERGY PROJECT

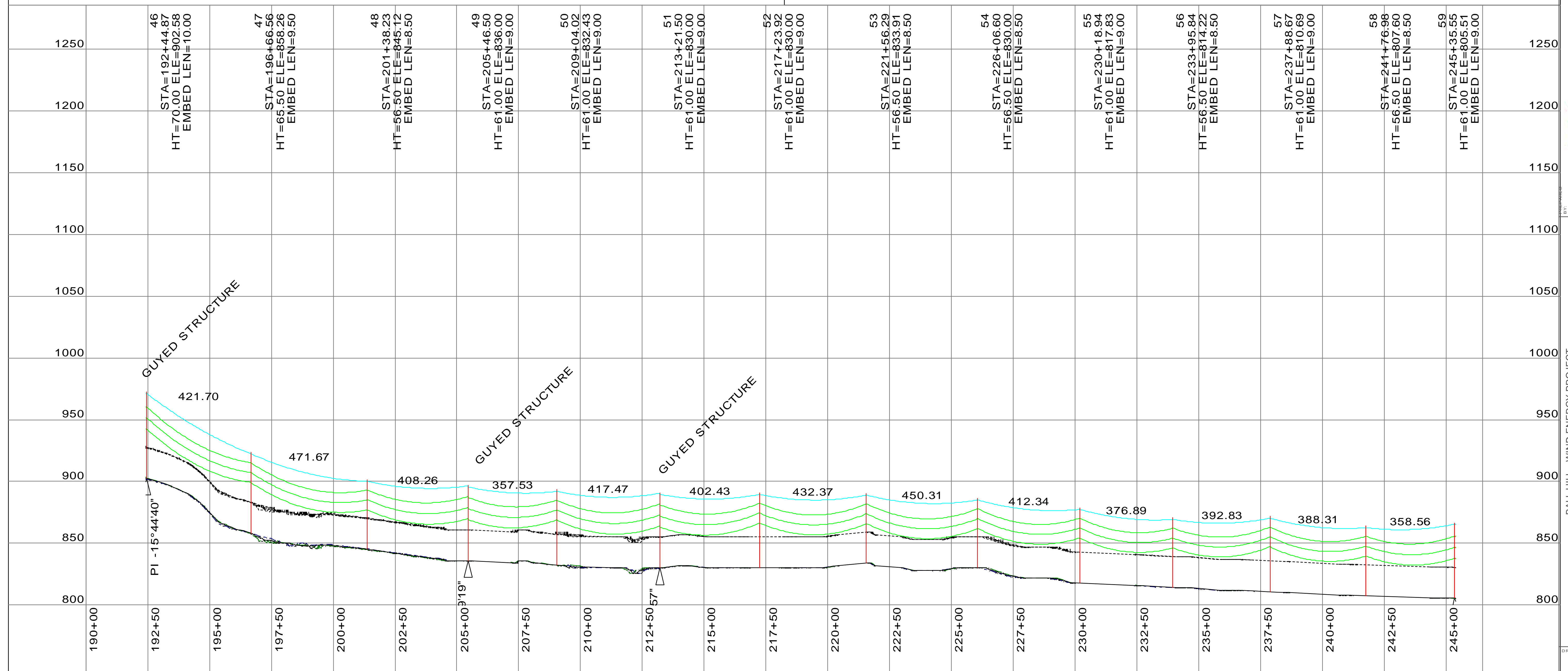
**STA 140+00 TO STA 192+48
STR 35 TO STR 46**

CHAUTAQUA COUNTY, NEW YORK

DRAWING NUMBER: 4 OF 7



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



INFORMATION SHOWN IS SUBJECT TO CHANGE. NOT FOR CONSTRUCTION

PROJECT NO: WTG LAYOUT#XXXXXXXXXX

COORD. SYSTEM: STATE PLANE NAD83 3103 NEW YORK WEST

DATE: 10/18/18

DESIGNER: RES DESIGN

DRAWN BY: JTL

CHECKED BY: JTL

APPROVED BY: JTL

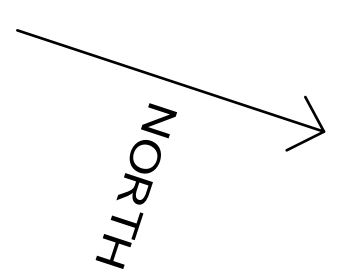
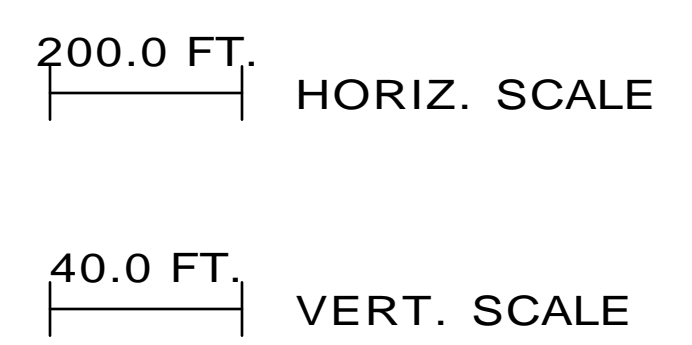
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PROJECT: BALL HILL - WIND ENERGY PROJECT

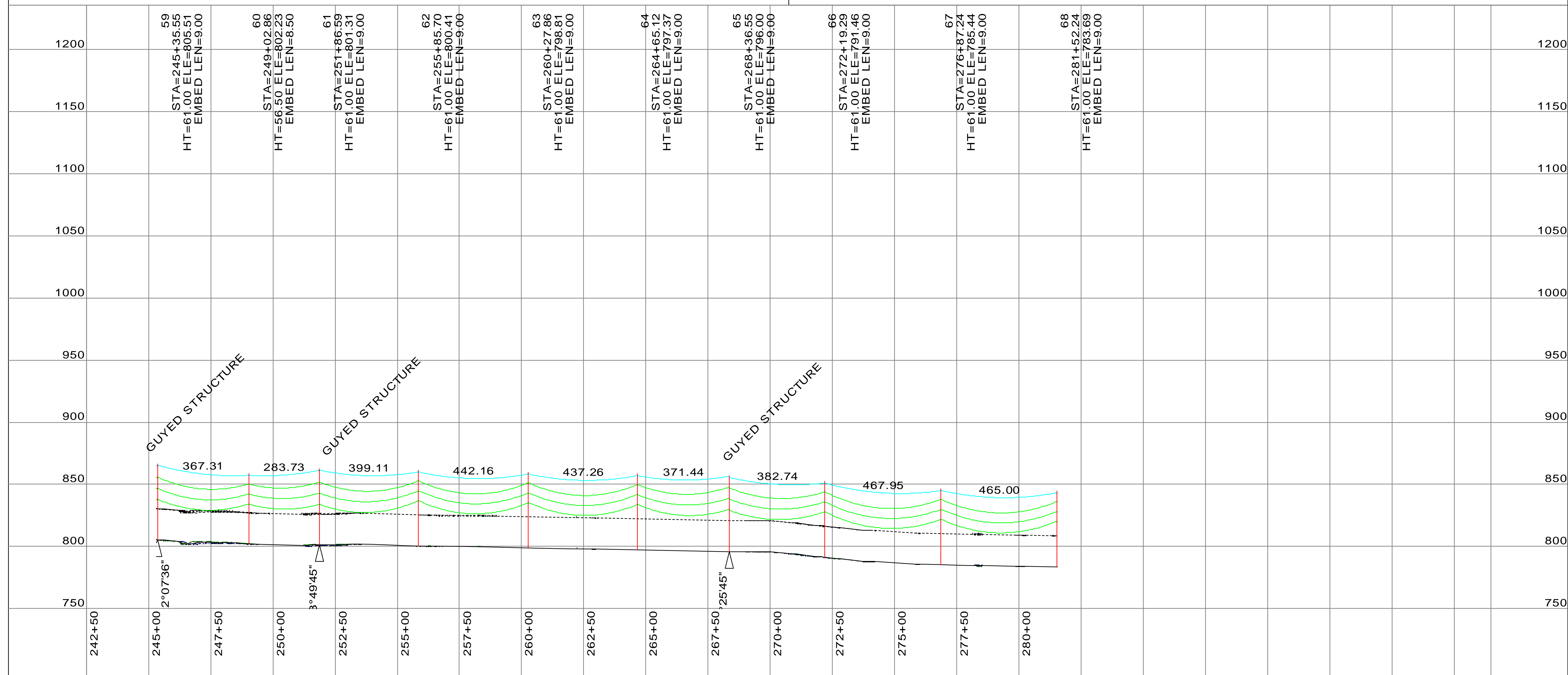
DRAWING NUMBER: STA 190+00 TO STA 245+39 STR 46 TO STR 59

CHAUTAQUA COUNTY, NEW YORK

RES AMERICA CONSTRUCTION, INC. 1101 W. 120TH AVE. SUITE 200, BROOKFIELD, CO 80422. TEL: 303-439-4200. FAX: 303-439-4201



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



RES
 RES AMERICA CONSTRUCTION, INC.
 1101 W. 120TH AVE., SUITE 8022, GOLD BROOKFIELD, CO
 TELEPHONE: 303.879.4292, FAX: (303)

PROJECT NO: WTG LAYOUT 120-XXXXXX

INFORMATION SHOWN IS SUBJECT TO CHANGE. NOT FOR CONSTRUCTION

DRAWING NUMBER: 6 OF 7

DATE: 8/14/2024

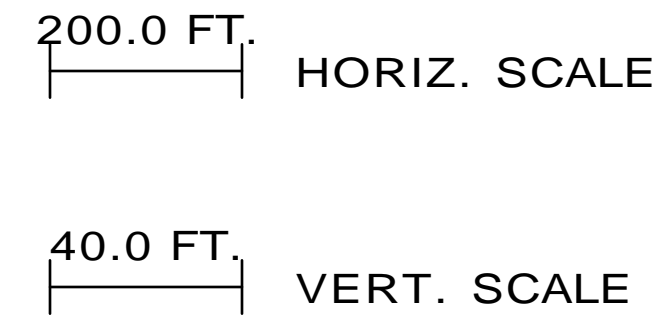
DESIGNER: JTL

CHECKER: JTL

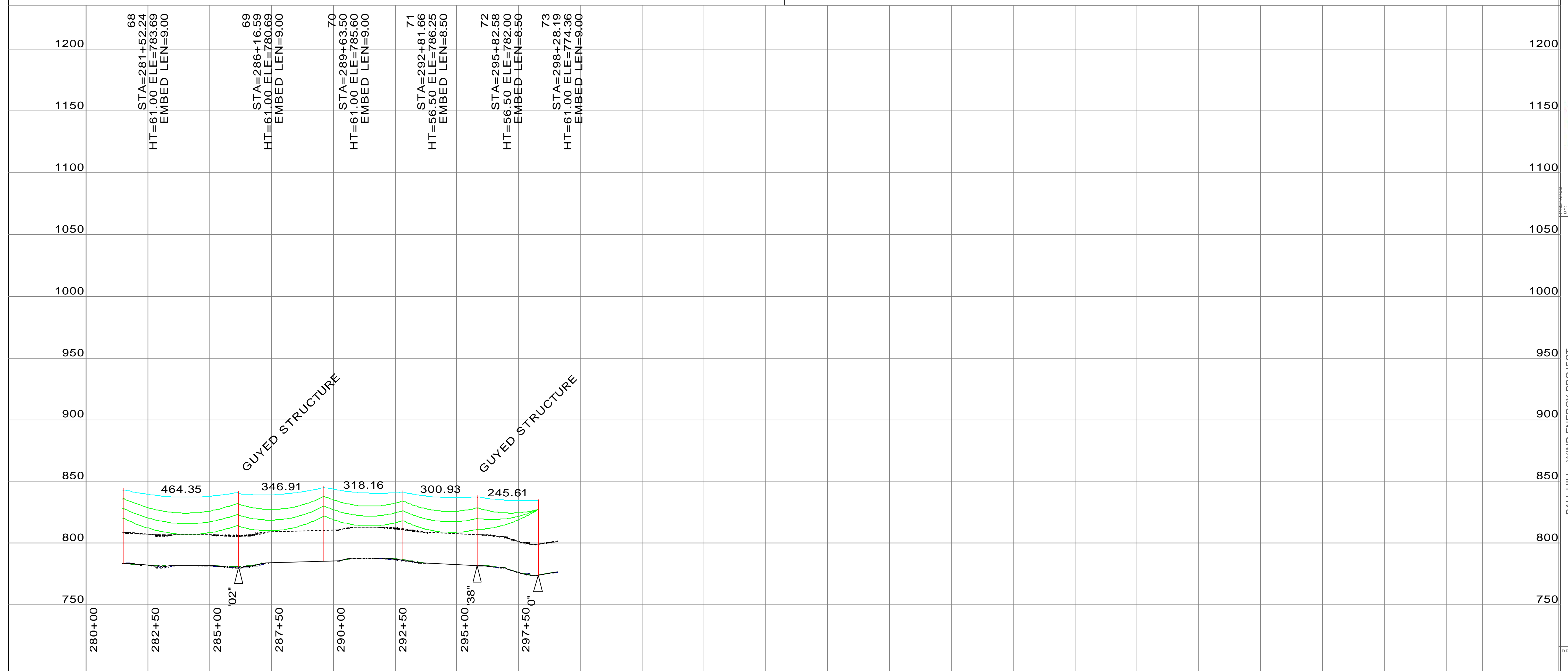
APPROVER: JTL

PURPOSE: RES DESIGN

COORD. SYSTEM: STATE PLANE NAD83 3103 NEW YORK WEST



- NOTES**
- 1) SINGLE 795 ACSR "DRAKE" CONDUCTORS SHOWN AT 212° F
 - 2) OPGW SHOWN AT 120° F
 - 3) 115KV CLEARANCE LINE IS DISPLAYED 25' TO GROUND (NESC REQ. 20' + 5' BUFFER)
 - 4) GUYS TYPICALLY EXTEND 100' BEYOND STRUCTURE



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PROJECT NO: WTG LAYOUT 1806XXXXXX

COORD. SYSTEM: STATE PLANE NAD83 3103 NEW YORK WEST

DATE: 18 JUL 2024

DESCRIPTION: A. 8041 RES - 10% DESIGN

DRAWN BY: JTL

CHECKED BY: JTL

DATE: 18 JUL 2024

DESCRIPTION: A. 8041 RES - 10% DESIGN

PROJECT NO: WTG LAYOUT 1806XXXXXX

RES AMERICA CONSTRUCTION, INC.
1101 W. 120TH AVE., SUITE 8022, COO BROOKFIELD, CO
TELEPHONE: (303) 492-4292 FAX: (303)

BALL HILL - WIND ENERGY PROJECT

STA 280+00 TO STA 299+07
STR 68 TO STR 73

CHAUTAQUA COUNTY, NEW YORK

DRAWING NUMBER: 7 OF 7