

**Colliers Project # 25001350A**  
**July 10, 2025**

**Survey Control Report**  
**Term Agreement D 214975**  
**NYSTA Syracuse Division**  
**Clifton Springs Service Area, MP 337.0 EB**

**Prepared for:**



**NEW YORK STATE THRUWAY AUTHORITY**

**Prepared By:**



**120 Madison Street Tower 2 Suite 500**  
**Syracuse New York 13202**

**Field Personnel:** C. Cempa – Crew Chief  
C. Wood – Survey Project Technician

**Office Personnel:** M. Roberts – Lidar Technician  
O. March – Senior Project Surveyor  
M. Hunter, PLS – Survey Project Manager

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## **SECTION 1**

### **PROJECT NARRATIVE**

The purpose of this survey is to establish both horizontal and vertical control throughout the project area along with gathering data of the existing field conditions as outlined in the project survey limits. Also included was to search for and locate all evidence of boundary lines, including NYS ROW monuments, private boundary line markers, and evidence of lines of occupation in the project area.

### **PROJECT SCOPE & TECHNICAL ASSUMPTIONS**

#### **Project Scope:**

Colliers Engineering & Design will perform a topographic survey with highway boundary and property line determination of the areas outlined in the image below. The survey will be performed using the Current Existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc.; the guidelines of the New York State Education Department and the State Board of Engineers and Land Surveyors.

#### **Topographic Survey**

Our office will prepare a topographic survey map that is a graphic pictorial representation of existing site features observed at the time of the field survey such as buildings, curbs, sidewalks, roadways, driveways, retaining walls, fences, individual trees in open areas, and utility hardware. Limits of wooded areas will be depicted based on the approximate dripline, but individual trees within wooded areas will not be surveyed. The topographic map will depict existing spot elevations and contours at a one-(1) foot contour interval. GPS surveying techniques will be used to control the survey with the resulting horizontal datum being New York State Plane Coordinate System Central Zone NAD83 and the vertical datum being North American Vertical Datum NAVD88. Every effort shall be made to use the same system as shown on the Record Plans provided by NYSTA prior to starting the survey.

The proposed Survey Limits are depicted inside the red line in the image below:

#### **Survey Limits**



Visible and accessible utilities and/or utility structures within the survey limits as described above will be surveyed and shown on the plan to include rim, grate and invert elevations, and pipe sizes entering and/or exiting the structures. For the purposes of this contract, accessible utilities shall be defined as those utilities that are visible to the naked eye at ground level and are safely accessible on foot by Colliers Engineering & Design field survey personnel without the need for additional safety measures and/or assistance with making pipes visible, open and clear for inspection and measuring. We will survey visible evidence of existing utilities within the survey limits, but may not be able to confirm the existence, or actual position of all underground utilities which may be running through or servicing the subject property.

The 811 one call system will be utilized to obtain field designation of subsurface utilities servicing the subject property. Utility lines that are marked out in the field by the various utility companies will be surveyed and depicted on our topographic survey map. Record utility mapping that may be provided by the various utility companies will be reviewed and additional pertinent information may be added to our mapping to supplement the field survey data. While we will utilize the information described above to depict the utilities servicing the subject property, we may not be able to confirm the existence or exact position of all underground utilities which may be running through or servicing the subject property without further investigation which may involve excavation in the form of test holes or borings.

Included in this scope of service are the following tasks:

Establish on-site survey control: Set baseline points and benchmarks where it is unlikely they will be disturbed.

Mark baseline points using iron rods and caps.

Permanent Ties: Locate so that baseline can be re-established.

Coordinate and Station System: Every effort shall be made to use the same system as shown on the Record Plans.

Field traverse, topographic survey and data collection.

Field measure inverts of accessible gravity structures.

Field survey data reduction and computation.

Preparation of topographic survey map in AutoCAD Civil 3D 2022 format or later.

Base Mapping Requirements:

- i. Scale: 1" = 20' (minimum)
- ii. Contours: 1' intervals or as appropriate.
- iii. Benchmarks, ties and notes: Include on drawing.

Survey Control Report: Incorporate a survey control report into the Preliminary Plan submission.

The report will contain the following information:

- i. General Location Map
- ii. Narrative outlining the scope of the survey, equipment used, control precision achieved (horizontal and vertical) and explanation of property line determination
- iii. Baseline diagram with baseline tie sketches
- iv. Vertical Control diagram with benchmark sketches
- v. Field Notes

Traffic safety protection for field survey crew and cleaning of clogged or obstructed drain and sewer structures is **not** included in the fee for this survey. If it is determined that safety protection is required for any of the survey services performed under this contract, we will advise you of the approximate cost prior to moving forward. Such additional cost would be invoiced as a reimbursable expense pursuant to prior authorization.

Right of Way Survey

Colliers Engineering & Design will perform a right-of-way survey of the roads within the limits described above current Existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc.; the guidelines of the New York State Education Department and the State Board of Engineers and Land Surveyors.

Right of way survey limits in this task will include:

Right-of-way boundaries will be solved from field surveyed right of way evidence, available NYSTA record property documents and mapping researched for the areas within and outside of the scope limits to establish right of way boundary lines within scope limits.

Determine the highway boundaries within the survey limits based on map, record plan, and permanent survey marker information provided by the Region.

Determine the approximate property lines based on map covers, title data, and field evidence.

**Final Deliverable.** The final deliverable will be a maximum of eight (8) hardcopies signed and sealed by a New York Professional Licensed Land Surveyor, and an electronic file in AutoCAD Civil 3D 2022 format or later. Draft deliverables will be in form of electronic file Adobe pdf format.

### **FIELD EQUIPMENT**

Trimble DiNi Digital Level

Trimble S7 1" Robotic Total Station

(2) Trimble R980 GNSS GPS Receivers

### **FIELD WORK DATES**

**June 6, 2025, thru July 8, 2025**

**SECTION 2**

**SUPERVISING SURVEYOR CERTIFICATION**

It is hereby certified that this is an accurate survey prepared under my direction in accordance with the New York State Department of Transportation specifications, policies, and procedures.



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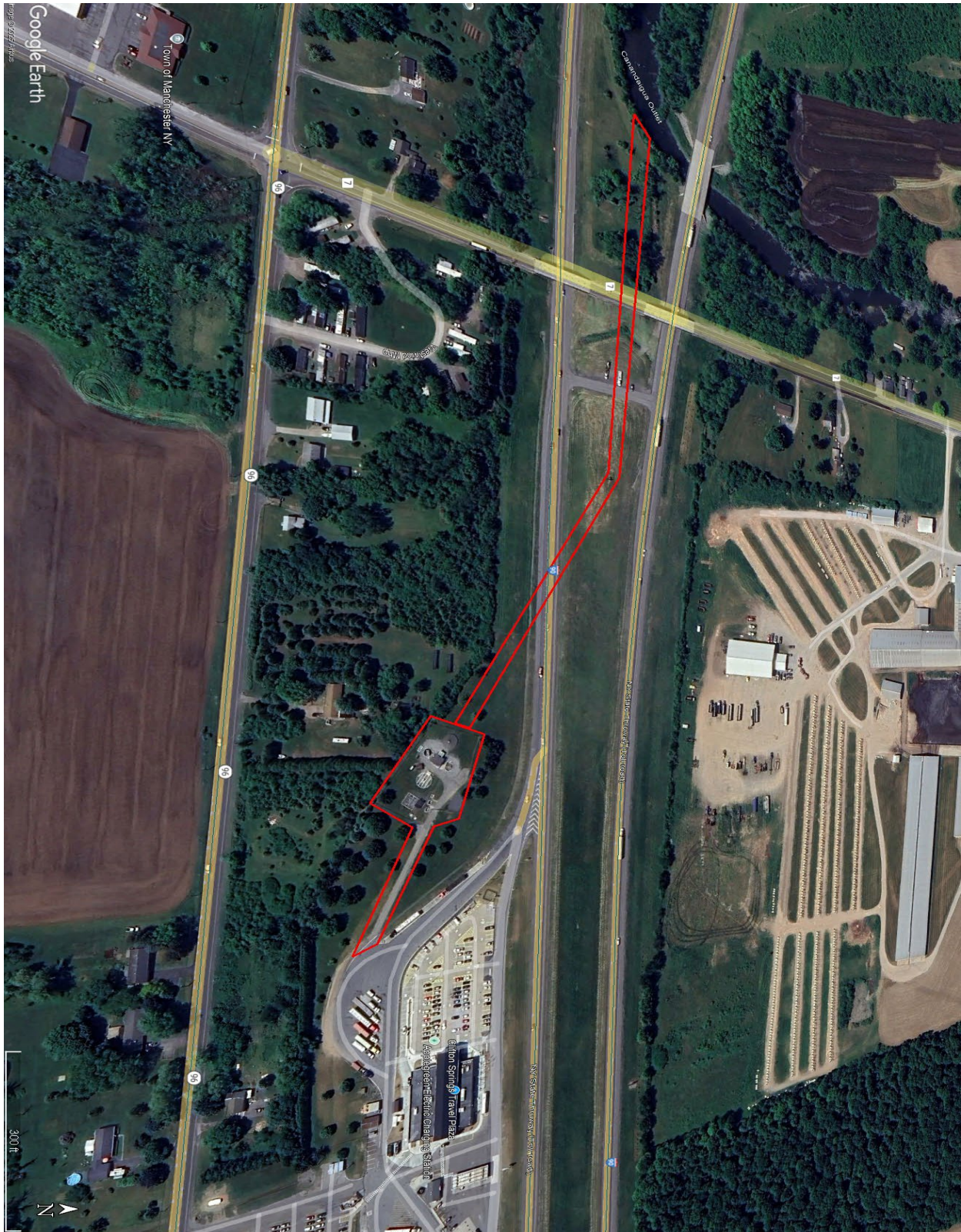
Mark R. Hunter  
License No. 051065  
July 10, 2025

**SECTION 3**

**PROJECT LOCATION  
AND TOPOGRAPHIC LIMITS**



## PROJECT LOCATION & TOPOGRAPHIC LIMITS





**SECTION 4**

**Horizontal and Vertical Control Narrative  
Primary Control and Benchmark Point List  
Primary Control and Benchmark Layout Diagram  
Primary Control & Benchmark Tie Sheets  
Level Report  
Primary Control and Benchmark Point Derivation Report**

## **HORIZONTAL AND VERTICAL CONTROL NARRATIVE**

Horizontal control was established by setting primary control point 5 and setting up a Trimble R980 GNSS GPS Receiver collecting two separate static GPS sessions, one being 4 hours, 17 minutes and the second being 5 hours, 20 minutes with a 1 second epoch sampling rate. Heights were fixed using a 2-meter pole base station tripod. The static session was postprocessed in Trimble Business Center Version 2024.01 using the Trimble RTX processing option and this was held for final coordinates on Control Point 5.

With the GPS base still set at control point 5, additional primary control points 1 - 4 were set with a Trimble R980 GNSS GPS Receiver utilizing RTK baseline observations. The additional control points were observed two different times with at least 20 minutes elapsing between the independent observations. Each RTK observation was at least three minutes in duration and the observations on each control point were averaged to obtain final coordinates. The deltas in the northing and easting from the final averaged coordinate to each independent observation is shown in the Point Derivation Report in this report.

Primary control point 5 was then occupied with a Trimble R980 GNSS GPS Receiver to complete the topographic survey in the project limits utilizing RTK Observations.

Horizontal control is referenced to the New York State Plane Coordinate System, Central Zone, Transverse Mercator Projection of the North American Datum of 1983(2011) Epoch 2010.

Vertical Control was established utilizing a Trimble DiNi Digital Level. Holding the elevation of the established Control Point 5 at an NAVD88 elevation of 560.35' was used to begin the level loop. The level loop was run through primary control points 1-4 and benchmarks 75-76 and closed back to control point 5. The level run closed, and the level report is in this report.

Vertical control is referenced to the North American Vertical Datum of 1988 (NAVD88) (Geoid 18).

## **Primary Control & Benchmark Point List**

NYSTA Clifton Springs WWTP		Clifton Springs Service Area, MP 337 EB	
Project file data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Name:	United States/NAD83
Size:	365 KB	Zone:	New York Central 3102
Modified:	7/14/2025 5:02:28 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:	Contract # D214975	Global reference epoch:	2010
Description:	Clifton Springs Service Area, MP 337 EB	Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

### Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000
Project height:	560.35	False easting offset:	0.000

### Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
1	1084126.663	660470.508	563.65	CBP, RBRC SET @GRADE
2	1084072.779	660886.568	555.21	CBP, RBRC SET @GRADE
3	1083870.959	661311.581	557.73	CBP, RBRC SET @GRADE
4	1083752.996	661521.655	560.76	CBP, RBRC SET @GRADE CBP
5	1083516.728	661872.265	560.35	CBP, RBRC SET -.

7/21/2025 7:53:31 AM	\\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Trimble Business Center
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NYSTA Clifton Springs WWTP		Clifton Springs Service Area, MP 337 EB	
Project file data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Name:	United States/NAD83
Size:	365 KB	Zone:	New York Central 3102
Modified:	7/14/2025 5:02:28 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:	Contract # D214975	Global reference epoch:	2010
Description:	Clifton Springs Service Area, MP 337 EB	Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

### Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000
Project height:	560.35	False easting offset:	0.000

### Point List

ID	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Feature Code
75	1083673.592	661611.724	560.49	BM XCS IN SW COR OF WALL FOR INTAKE GRINDER
76	1084089.019	660462.470	564.99	XCS IN NE COR BRIDGE ABUTMENT

7/21/2025 7:55:08 AM	\\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Trimble Business Center
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## Primary Control & Benchmark Layout Diagram



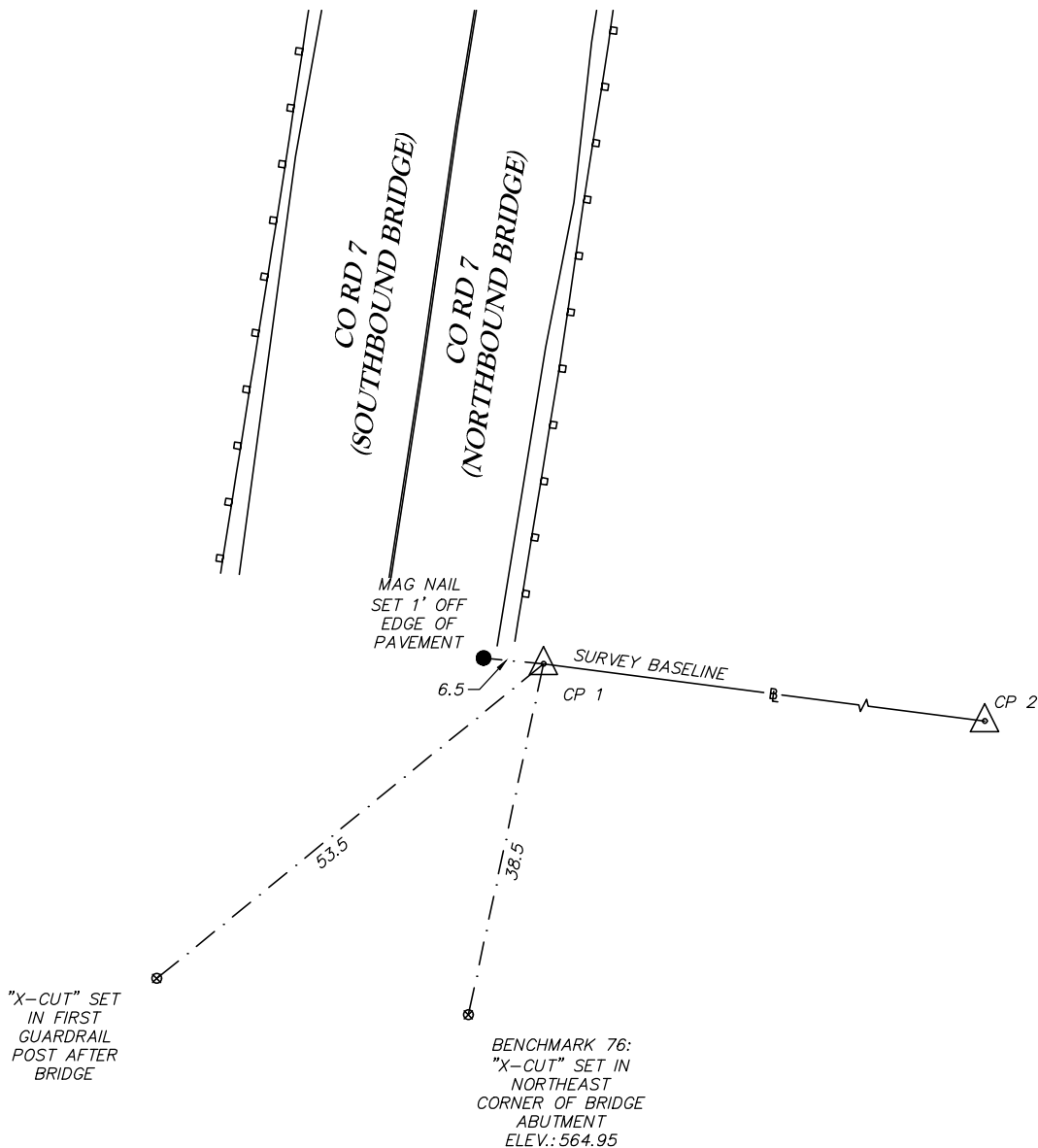








## **Primary Control Tie Sheets**



MONUMENT/CONTROL TYPE: RED CAPPED REBAR  
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011)	CONTROL POINT: CP 1	DESCRIPTION: CP 1 IS A CAPPED REBAR SET 6.5 FEET EAST OF COUNTY ROUTE 7, LOCATED 38.5 FEET NORTHEASTERLY OF BRIDGE ABUTMENT.	TO STATION: CP 2	GRID BEARING: S 82°37'14" E	GRID DISTANCE: 419.53'
VERTICAL DATUM: NAVD 88	COORDINATES: N: 1084126.663 E: 660470.508 ELEV: 563.65				
DATUM SOURCE: NAD 83					
DATUM SOURCE: NAD 83					
DATUM SOURCE: NAD 83					
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DIVISION

BASELINE TIE SHEET

CLIFTON SPRINGS  
WASTE WATER  
TREATMENT PLANT

TOWN OF MANCHESTER  
ONTARIO COUNTY  
STATE OF NEW YORK

REV | DATE | DESCRIPTION

SCALE:

1" = 20'

DESIGNED BY:

CBT

DATE ISSUED:

07/18/2025

SHEET NAME:

DRAWN BY:

CBT

REVIEWED BY:

MRH

PROJECT NUMBER:

25001350A

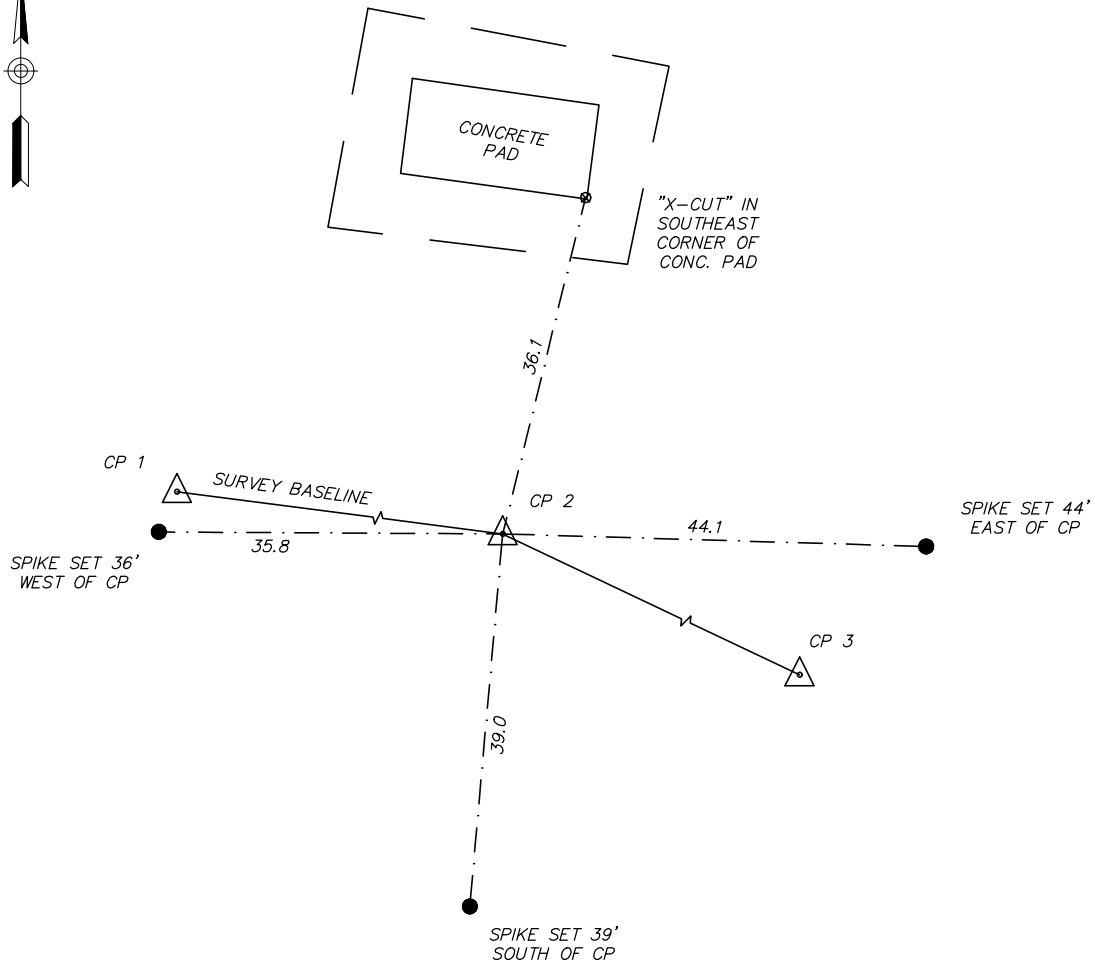
CONTROL  
BASELINE POINT 1

DRAWING NUMBER:

1 of 5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.





MONUMENT/CONTROL TYPE: RED CAPPED REBAR  
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88 DATUM SOURCE: NAD 83 UNITS: U.S. FEET	CONTROL POINT: CP 2 COORDINATES: N: 1084072.779 E: 660886.568 ELEV: 555.21	DESCRIPTION: CP 2 IS A CAPPED REBAR SET 36.1' SOUTH OF A CONCRETE PAD AND 39 FEET NORTH OF A SET SPIKE.	TO STATION: CP 1	GRID BEARING: N 82°37'14" W	GRID DISTANCE: 419.53'
			CP 3	S 64°35'56" E	470.50'



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REV | DATE | DESCRIPTION


SCALE:  
1" = 20'

DESIGNED BY:  
CBT

DATE ISSUED:  
07/18/2025

SHEET NAME:

DRAWN BY:  
CBT

REVIEWED BY:  
MRH

PROJECT NUMBER:  
25001350A

CONTROL  
BASELINE POINT 2

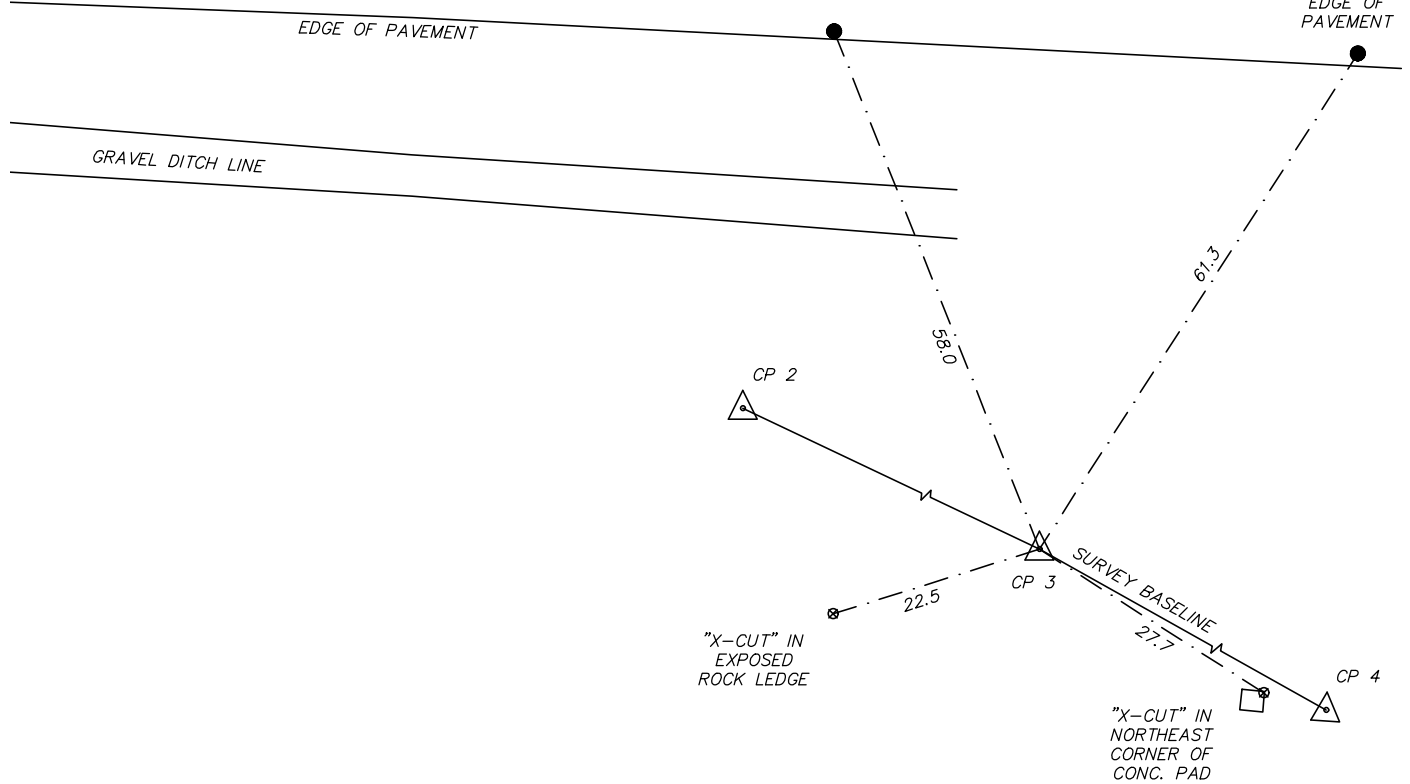
DRAWING NUMBER:

2 of 5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



NY STATE THRUWAY  
(EASTBOUND)



MONUMENT/CONTROL TYPE: RED CAPPED REBAR  
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88 DATUM SOURCE: NYSPCS CENTRAL ZONE UNITS: U.S. FEET	CONTROL POINT: CP 3 COORDINATES: N: 1083870.959 E: 661311.581 ELEV: 557.73	DESCRIPTION: CP 3 IS A CAPPED REBAR SET SOUTHERLY OF THE NEW YORK STATE THRUWAY (EASTBOUND), LOCATED 27.7 FEET NORTHWESTERLY OF A CONCRETE PAD.	TO STATION: CP 2	GRID BEARING: N 64°35'56" W	GRID DISTANCE: 470.50'
			CP 4	S 60°41'04" E	240.93'



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BASELINE TIE SHEET

CLIFTON SPRINGS  
WASTE WATER  
TREATMENT PLANT

TOWN OF MANCHESTER  
ONTARIO COUNTY  
STATE OF NEW YORK

REV | DATE | DESCRIPTION

SCALE:  
1" = 20'

DESIGNED BY:  
CBT

DATE ISSUED:  
07/18/2025

SHEET NAME:

DRAWN BY:  
CBT

REVIEWED BY:  
MRH

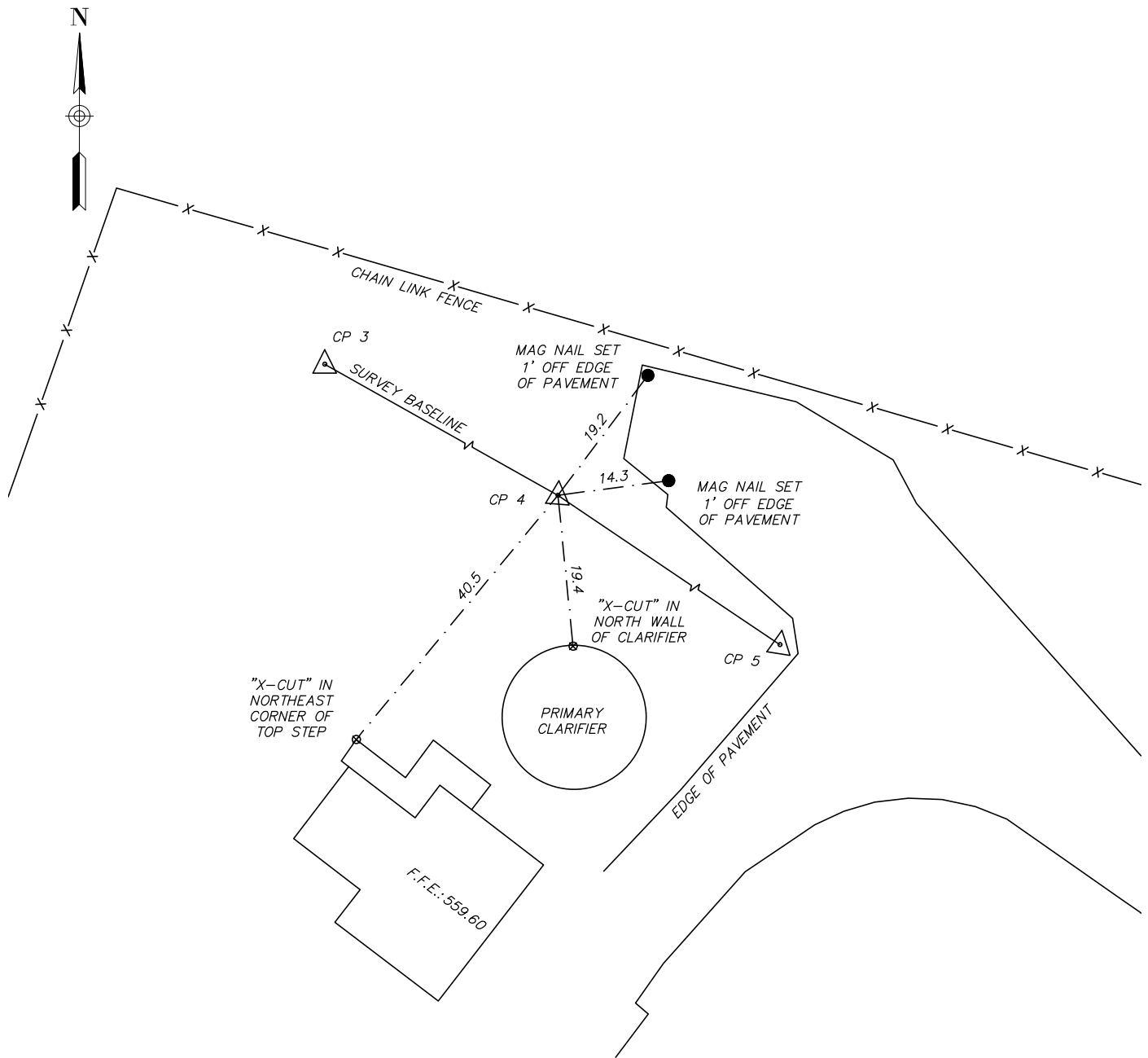
PROJECT NUMBER:  
25001350A

CONTROL  
BASELINE POINT 3

DRAWING NUMBER:

3 of 5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



MONUMENT/CONTROL TYPE: RED CAPPED REBAR  
ALL TIES: AS SHOWN

HORIZONTAL DATUM: NAD 83 (2011) VERTICAL DATUM: NAVD 88 DATUM SOURCE: NAD 83 (2011) UNITS: U.S. FEET	CONTROL POINT: CP 4 COORDINATES: N: 1083752.996 E: 661521.655 ELEV: 560.76	DESCRIPTION: CP 4 IS A CAPPED REBAR SET SOUTHERLY OF THE NEW YORK STATE THRUWAY (EASTBOUND), LOCATED 19.4 FEET NORTH OF THE PRIMARY CLARIFIER.	TO STATION: CP 3	GRID BEARING: N 60°41'04" W	GRID DISTANCE: 240.93'
			CP 5	S 56°01'30" E	422.79'



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BASELINE TIE SHEET

CLIFTON SPRINGS  
WASTE WATER  
TREATMENT PLANT

TOWN OF MANCHESTER  
ONTARIO COUNTY  
STATE OF NEW YORK

REV | DATE | DESCRIPTION


SCALE:

1" = 20'

DESIGNED BY:

CBT

DATE ISSUED:

07/18/2025

SHEET NAME:

DRAWN BY:

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MRH

PROJECT NUMBER:

25001350A

CONTROL  
BASELINE POINT 4

DRAWING NUMBER:

4 of 5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



EDGE OF PAVEMENT

EDGE OF PAVEMENT

CP 4

SURVEY BASELINE

CP 5

MAG NAIL SET  
1' OFF EDGE  
OF PAVEMENT

20.3

88.7

"X-CUT" IN  
NORTHWEST  
CORNER OF  
INLET

46.6

SPIKE SET 46'  
SOUTHWEST OF  
CP

MONUMENT/CONTROL TYPE: RED CAPPED REBAR  
ALL TIES: AS SHOWN

HORIZONTAL DATUM:  
NAD 83 (2011)  
VERTICAL DATUM:  
NAVD 88  
DATUM SOURCE:  
NAD 83  
UNITS:  
U.S. FEET

CONTROL POINT:  
CP 5  
COORDINATES:  
N: 1083516.728  
E: 661872.265  
ELEV: 560.35

DESCRIPTION:  
CP 5 IS A CAPPED REBAR SET SOUTHEASTERLY OF THE CLIFTON SPRINGS TRAVEL PLAZA, LOCATED 88.7 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE INLET.

TO STATION: CP 4	GRID BEARING: N 56°01'30" W	GRID DISTANCE: 422.79'
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BASELINE TIE SHEET

CLIFTON SPRINGS  
WASTE WATER  
TREATMENT PLANT

TOWN OF MANCHESTER  
ONTARIO COUNTY  
STATE OF NEW YORK

REV	DATE	DESCRIPTION
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SCALE: 1" = 20'	DRAWN BY: CBT
DESIGNED BY: CBT	REVIEWED BY: MRH
DATE ISSUED: 07/18/2025	PROJECT NUMBER: 25001350A
SHEET NAME:	

CONTROL  
BASELINE POINT 5

DRAWING NUMBER:

5 of 5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

## Level Report



NYSTA Clifton Springs WWTP

Clifton Springs Service Area, MP 337 EB

Project File Data

Name: \\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2  
Survey\Trimble\25001350A.vce  
Size: 365 KB  
Modified: 7/14/2025 5:02:28 PM (UTC:-4)  
Time zone: Eastern Standard Time  
Reference number: Contract # D214975  
Description: Clifton Springs Service Area, MP 337 EB  
Comment 1:  
Comment 2:  
Comment 3:

Coordinate System

Name: United States/NAD83  
Zone: New York Central 3102  
Datum: NAD83(2011)  
Global reference datum: NAD83(2011)  
Global reference epoch: 2010  
Geoid: GEOID18 (Conus)  
Vertical datum: NAVD88  
Calibrated site:

Additional Coordinate System Details

Local Site Settings

Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000 ft
Project height:	560.35 ft	False easting offset:	0.000 ft

Level Report

Imported file: [25001350.DAT](#)

Instrument: DiNi  
Creation option: Level coordinates  
Description usage: Ignored

Run - 1 Raw Observations















Standard error per kilometer of double leveling: 0.00230 ft  
Standard error per turn/station setup: 0.00000 ft  
Raw Misclosure: -0.00250 ft  
 $\Sigma$  BS Distances: 1630.620 ft  
 $\Sigma$  FS Distances: 1755.600 ft  
Run Length: 3386.220 ft  
Reduction: Raw Elevations

Create	Point ID	BS	HI	IS	FS	$\Delta$ Elevation	Raw Elevation	Misclosure	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/> 5.38370 ft	565.73370 ft			0.00000 ft	560.35000 ft	0.00000 ft	560.35000 ft 🚧	Benchmark	154.850 ft	CBP
<input checked="" type="checkbox"/>	75				<input type="checkbox"/> 5.23980 ft	0.14030 ft	560.49030 ft			Computed	149.540 ft	#####
	75				<input checked="" type="checkbox"/> 5.24340 ft						149.860 ft	BM
	75	<input checked="" type="checkbox"/> 5.19810 ft	565.68840 ft								101.630 ft	BM
<input checked="" type="checkbox"/>	4				<input checked="" type="checkbox"/> 4.92950 ft	0.26860 ft	560.75890 ft			Computed	46.260 ft	CP

	4	✓ 5.21720 ft	565.97610 ft								120.840 ft	CP
✓	3			✓ 8.24380 ft	-3.02660 ft	557.73230 ft			Computed		119.780 ft	CP
	3	✓ 2.38780 ft	560.12010 ft								215.390 ft	CP
✓	2			✓ 4.91240 ft	-2.52460 ft	555.20770 ft			Computed		277.180 ft	CP
	2	✓ 0.94050 ft	556.14820 ft								153.940 ft	CP
✓	TP1000			13.43720 ft	-12.42960 ft	542.77810 ft			Computed		213.680 ft	#####
	TP1000			✓ 13.37010 ft							211.800 ft	CP
	TP1000	✓ 15.73840 ft	558.51650 ft								48.130 ft	CP
✓	TP1001			✓ 3.14450 ft	12.59390 ft	555.37200 ft			Computed		40.920 ft	CP
	TP1001	✓ 11.80760 ft	567.17960 ft								33.150 ft	CP
✓	1			✓ 3.52640 ft	8.28120 ft	563.65320 ft			Computed		24.190 ft	CP
	1	✓ 5.60010 ft	569.25330 ft								19.360 ft	CP
✓	76			✓ 4.26390 ft	1.33620 ft	564.98940 ft			Computed		19.180 ft	CP
	76	✓ 3.94920 ft	568.93860 ft								19.230 ft	CP
✓	TP1002			✓ 14.55060 ft	-10.60140 ft	554.38800 ft			Computed		25.070 ft	CP
	TP1002	✓ 1.87890 ft	556.26690 ft								23.930 ft	CP
✓	TP1003			✓ 13.22880 ft	-11.34990 ft	543.03810 ft			Computed		29.570 ft	CP
	TP1003	✓ 9.72290 ft	552.76100 ft								229.430 ft	CP
✓	TP1004			✓ 2.27010 ft	7.45280 ft	550.49090 ft			Computed		243.940 ft	CP
	TP1004	✓ 7.83290 ft	558.32380 ft								177.670 ft	CP
	3			✓ 0.59120 ft	7.24170 ft	557.73260 ft			Computed		190.290 ft	CP
	3	✓ 6.21160 ft	563.94420 ft								221.970 ft	CP
✓	TP1005			✓ 4.32960 ft	1.88200 ft	559.61460 ft			Computed		228.360 ft	CP
	TP1005	✓ 5.67730 ft	565.29190 ft								111.100 ft	CP
	5			✓ 4.94440 ft	0.73290 ft	560.34750 ft	-0.00250 ft	560.35000 ft	Benchmark		149.200 ft	CP

### Run - 1 (N5) Reduced Coordinates

Point ID	Status	Elevation
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 <a href="#">5</a>	Enabled	560.35000 ft
 <a href="#">75</a>	Enabled	560.49030 ft
 <a href="#">4</a>	Enabled	560.75890 ft
 <a href="#">3</a>	Enabled	557.73230 ft
 <a href="#">2</a>	Enabled	555.20770 ft
 <a href="#">TP1000</a>	Enabled	542.77810 ft
 <a href="#">TP1001</a>	Enabled	555.37200 ft
 <a href="#">1</a>	Enabled	563.65320 ft
 <a href="#">76</a>	Enabled	564.98940 ft
 <a href="#">TP1002</a>	Enabled	554.38800 ft
 <a href="#">TP1003</a>	Enabled	543.03810 ft
 <a href="#">TP1004</a>	Enabled	550.49090 ft
 <a href="#">3</a>	Enabled	557.73260 ft
 <a href="#">TP1005</a>	Enabled	559.61460 ft

Date: 7/21/2025 7:57:46 AM	Project: \\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Trimble Business Center
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## **Primary Control Point Derivation Report**

NYSTA Clifton Springs WWTP

Clifton Springs Service Area, MP 337 EB

Project File Data		Coordinate System	
Name:	\\baps\Projects\NYS Thruway\25001350A\4.0 Dwgs\4.2 Survey\Trimble\25001350A.vce	Name:	United States/NAD83
Size:	365 KB	Zone:	New York Central 3102
Modified:	7/14/2025 5:02:28 PM (UTC:-4)	Datum:	NAD83(2011)
Time zone:	Eastern Standard Time	Global reference datum:	NAD83(2011)
Reference number:	Contract # D214975	Global reference epoch:	2010
Description:	Clifton Springs Service Area, MP 337 EB	Geoid:	GEOID18 (Conus)
Comment 1:		Vertical datum:	NAVD88
Comment 2:		Calibrated site:	
Comment 3:			

Additional Coordinate System Details

Local Site Settings			
Project latitude:	?	Ground scale factor:	1
Project longitude:	?	False northing offset:	0.000 ft
Project height:	560.35 ft	False easting offset:	0.000 ft

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Point Derivations

Resultant Coordinates for point: <a href="#">1</a>							
Northing		Easting		Elevation		Height	
1084126.663 ft 🚧		660470.508 ft 🚧		563.65 ft 🚧		449.45 ft 🚧	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
🚧 <a href="#">Office entered (Grid)</a>	NEeh	Enabled	0.000 ft 🚧	0.000 ft 🚧	0.000 ft 🚧	0.00 ft 🚧	0.00 ft 🚧
Point: <a href="#">1B</a>		Enabled	0.008 ft 🚧	-0.016 ft 🚧	0.018 ft 🚧	0.02 ft 🚧	0.02 ft 🚧
Point: <a href="#">1A</a>		Enabled	-0.008 ft 🚧	0.016 ft 🚧	0.018 ft 🚧	0.03 ft 🚧	0.03 ft 🚧
🚧 Simple Mean		Enabled	0.000 ft 🚧	0.000 ft 🚧	0.000 ft 🚧	0.02 ft 🚧	0.02 ft 🚧
🚧 <a href="#">Grid (25001350.DAT)</a>		Enabled	?	?	?	0.00 ft 🚧	?

Survey Data used to calculate point:[1](#)

Precision Confidence Level: **DRMS**

Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
<a href="#">Office entered (Grid)</a>	1084126.663 ft	660470.508 ft	563.65 ft	449.45 ft
<a href="#">Grid (25001350.DAT)</a>	?	?	563.65 ft	?

**Resultant Coordinates for point:2**

Northing		Easting		Elevation		Height	
1084072.779 ft		660886.568 ft		555.21 ft		441.01 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
<a href="#">Office entered (Grid)</a>	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Point: <a href="#">2B</a>		Enabled	0.022 ft	-0.008 ft	0.023 ft	0.07 ft	0.07 ft
Point: <a href="#">2A</a>		Enabled	-0.022 ft	0.008 ft	0.023 ft	0.02 ft	0.02 ft
Simple Mean		Enabled	0.000 ft	0.000 ft	0.000 ft	0.05 ft	0.05 ft
<a href="#">Grid (25001350.DAT)</a>		Enabled	?	?	?	0.00 ft	?

**Survey Data used to calculate point:2**Precision Confidence Level: **DRMS**

Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
<a href="#">Office entered (Grid)</a>	1084072.779 ft	660886.568 ft	555.21 ft	441.01 ft
<a href="#">Grid (25001350.DAT)</a>	?	?	555.21 ft	?

**Resultant Coordinates for point:3**

Northing		Easting		Elevation		Height	
1083870.959 ft		661311.581 ft		557.73 ft		443.54 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz)	ΔElevation (US survey foot)	ΔHeight (US survey foot)

					(US survey foot)		
Simple Mean	NE	Enabled	0.000 ft	0.000 ft	0.000 ft	0.04 ft	0.04 ft
Office entered (Grid)		Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Grid (25001350.DAT)	eh	Enabled	?	?	?	0.00 ft	?
Point: 3A		Enabled	-0.034 ft	-0.036 ft	0.049 ft	0.03 ft	0.03 ft
Point: 3B		Enabled	0.015 ft	0.020 ft	0.024 ft	0.05 ft	0.05 ft
Point: 3C		Enabled	0.019 ft	0.016 ft	0.025 ft	0.05 ft	0.05 ft
Grid (25001350.DAT)		Enabled	?	?	?	0.00 ft	?

### Survey Data used to calculate point:3

Precision Confidence Level: DRMS










Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
Office entered (Grid)	1083870.959 ft	661311.581 ft	557.73 ft	443.54 ft
Grid (25001350.DAT)	?	?	557.73 ft	?
Grid (25001350.DAT)	?	?	557.73 ft	?

### Resultant Coordinates for point:4











































Northing		Easting		Elevation		Height	
1083752.996 ft		661521.655 ft		560.76 ft		446.57 ft	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
Office entered (Grid)	NEeh	Enabled	0.000 ft	0.000 ft	0.000 ft	0.00 ft	0.00 ft
Point: 4B		Enabled	-0.014 ft	-0.002 ft	0.014 ft	0.06 ft	0.06 ft
Point: 4A		Enabled	0.014 ft	0.003 ft	0.014 ft	0.04 ft	0.04 ft
Simple Mean		Enabled	0.000 ft	0.000 ft	0.000 ft	0.05 ft	0.05 ft
Grid (25001350.DAT)		Enabled	?	?	?	0.00 ft	?
4-70-4 (M3)		Enabled	0.031 ft	-0.007 ft	0.032 ft	0.00 ft	0.00 ft
70-4 (T196)		Enabled	0.034 ft	-0.007 ft	0.034 ft	0.00 ft	0.00 ft

### Survey Data used to calculate point:4

Precision Confidence Level: **DRMS**

Terrestrial Observations				
Observation	Azimuth	H. Distance	V. Distance	
 <a href="#">4-70-4 (M3)</a>	347°47'15.2"	137.347 ft	1.863 ft	
 <a href="#">70-4 (T196)</a>	347°47'15.2"	137.345 ft	1.858 ft	
Coordinates				
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)
 <a href="#">Office entered (Grid)</a>	1083752.996 ft 	661521.655 ft 	560.76 ft 	446.57 ft 
 <a href="#">Grid (25001350.DAT)</a>	?	?	560.76 ft 	?
























Resultant Coordinates for point: **5**

Northing		Easting		Elevation		Height	
1083516.728 ft 		661872.265 ft 		560.35 ft 		446.17 ft 	
Data	Used to calc.	Status	ΔNorth (US survey foot)	ΔEast (US survey foot)	Distance (Horiz) (US survey foot)	ΔElevation (US survey foot)	ΔHeight (US survey foot)
 <a href="#">Office entered (Grid)</a>	NE	Enabled	0.000 ft 	0.000 ft 	0.000 ft 	0.00 ft 	0.00 ft 
 1007 → 5	h	Enabled	0.000 ft 	0.001 ft 	0.001 ft 	0.00 ft 	0.00 ft 
 <a href="#">Grid (25001350.DAT)</a>	e	Enabled	?	?	?	0.00 ft 	?
 <a href="#">Coordinate (RTX (61841601.T04).xml)</a>		Check	0.000 ft 	0.000 ft 	0.000 ft 	0.00 ft 	0.00 ft 
 <a href="#">Coordinate (RTX (61841571.T04).xml)</a>		Check	0.004 ft 	0.015 ft 	0.016 ft 	0.01 ft 	0.01 ft 
 <a href="#">4-5 (T1)</a>		Enabled	-0.028 ft 	0.042 ft 	0.050 ft 	0.02 ft 	0.02 ft 
 <a href="#">5-4-5 (M1)</a>		Enabled	-0.026 ft 	0.038 ft 	0.046 ft 	0.00 ft 	0.00 ft 

Survey Data used to calculate point: **5**Precision Confidence Level: **DRMS**

GNSS vectors					
1007 → 5		Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
Mean:		476.719 ft	460.226 ft	-13.249 ft	-123.604 ft
σ:			0.012 ft	0.017 ft	0.014 ft



Residuals	Horiz. (US survey foot)	Vert. (US survey foot)	3D (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 <a href="#">5-1007 (V544)</a>	0.023 ft	0.036 ft	0.042 ft	-920.427 ft	26.465 ft	247.221 ft
 <a href="#">5-1007 (V545)</a>	0.015 ft	0.020 ft	0.025 ft	-920.468 ft	26.516 ft	247.202 ft
Data	H. Prec. (US survey foot)	V. Prec. (US survey foot)	Length (US survey foot)	ΔX (US survey foot)	ΔY (US survey foot)	ΔZ (US survey foot)
 <a href="#">5-1007 (V544)</a>	0.034 ft	0.054 ft	476.698 ft	-460.201 ft	13.217 ft	123.617 ft
 <a href="#">5-1007 (V545)</a>	0.027 ft	0.041 ft	476.734 ft	-460.242 ft	13.267 ft	123.598 ft
Terrestrial Observations						
Observation	Azimuth		H. Distance		V. Distance	
 <a href="#">4-5 (T1)</a>	123°58'30.3"		422.738 ft		-0.426 ft	
 <a href="#">5-4-5 (M1)</a>	123°58'30.3"		422.742 ft		-0.415 ft	
Coordinates						
Source	Northing (US survey foot)	Easting (US survey foot)	Elevation (US survey foot)	Height (US survey foot)		
 <a href="#">Office entered (Grid)</a>	1083516.728 ft 	661872.265 ft 	560.35 ft 	446.18 ft 		
 <a href="#">Grid (25001350.DAT)</a>	?	?	560.35 ft 	?		
 <a href="#">Coordinate (RTX (61841601.T04).xml)</a>	1083516.728 ft 	661872.265 ft 	560.35 ft 	446.18 ft 		
 <a href="#">Coordinate (RTX (61841571.T04).xml)</a>	1083516.724 ft 	661872.250 ft 	560.34 ft 	446.16 ft 		

Date: 7/21/2025 7:51:23 AM	Project: \\baps\Projects\NYS Thruway\25001350A\4.0 Dwg\4.2 Survey\Trimble\25001350A.vce	Trimble Business Center
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## **SECTION 5**

### **Final Coordinates**

1,1084126.663,660470.508,563.65,CBP, RBRC SET @GRADE  
2,1084072.779,660886.568,555.21,CBP, RBRC SET @GRADE  
3,1083870.959,661311.581,557.73,CBP, RBRC SET @GRADE  
4,1083752.996,661521.655,560.76,CBP, RBRC SET @GRADE CBP  
5,1083516.728,661872.265,560.35,CBP, RBRC SET -.  
70,1083618.725,661550.716,558.90,SPK  
71,1083689.971,661454.404,560.49,SPK  
75,1083673.592,661611.724,560.49,BM XCS IN SW COR OF WALL FOR INTAKE GRINDER  
76,1084089.019,660462.470,564.99,XCS IN NE COR BRIDGE ABUTMENT  
200,1083561.590,661853.014,560.30,CBT, MAG 1' FROM EP  
201,1083523.128,661891.573,559.81,CBT, MAG 1' FROM EP  
202,1083493.574,661957.863,559.58,XCS IN NW COR OF CATCH BASIN RIM  
203,1083473.604,661854.598,559.53,SPK -.1' 46' SW OF CBP  
204,1083754.857,661535.820,560.46,CBT, MAG 1' FROM EP  
205,1083768.322,661533.154,560.50,CBT, MAG 1' FROM EP  
206,1083733.677,661523.593,556.02,XCS IN N WALL OF CLARIFIER  
207,1083721.589,661496.014,562.88,XCS IN NE CORNER OF TOP STEP  
208,1083855.993,661334.935,557.90,XCS IN NE CORNER OF CONC PAD  
209,1083864.222,661290.075,558.05,XCS IN EXPOSED LEDGE ROCK  
210,1083924.897,661290.191,555.57,CBT, MAG 1' FROM EP  
211,1083922.584,661344.727,556.37,CBT, MAG 1' FROM EP  
212,1084107.789,660895.202,556.48,XCS IN SE COR CONC PAD  
213,1084072.983,660850.752,553.64,SPK SET -.1' 36' W FROM CBP  
214,1084033.976,660883.146,550.14,SPK SET -.1' 39' S FROM CBP  
215,1084071.469,660930.673,556.48,SPK SET -.1' 44' E FROM CBP  
216,1084089.028,660462.465,564.95,CBT XCS NE CORN BRIDGE ABUTMENT  
217,1084127.288,660464.088,564.05,CBT, MAG 1' FROM EP  
218,1084202.535,660479.049,566.09,CBT XCS IN FIRST GRL POST AFTER BRIDGE  
219,1084092.929,660429.037,566.23,CBT XCS IN FIRST GRL POST AFTER BRIDGE  
1000,1083819.292,661262.748,558.76,MONF, NY TRIANGLE +1'  
1001,1083819.507,661263.325,558.39,IPF 3/4" PINCHED +.4'  
1002,1083262.836,662218.761,555.82,RBRC, ALUMINUM CAP UNREADABLE @GRADE  
1003,1083233.816,662527.334,558.84,MONF W/PIN NY TRIANGLE +.5'  
1004,1083488.747,662519.969,562.93,MONF W/PIN NY TRIANGLE +2.5'  
1005,1083773.599,663070.961,573.11,MONF W/PIN NY TRIANGLE +.5'  
1006,1083777.135,663071.928,565.96,MONF W/PIN NY TRIANGLE +.5'  
1007,1083688.732,661427.685,560.42,MONF TRIANGLE NY W/ PIN +1.5"  
77000,1083530.700,661881.484,559.88,EP1 B  
77001,1083559.888,661854.255,560.27,EP1  
77002,1083544.123,661887.743,560.39,GS  
77003,1083562.042,661875.325,560.62,GS  
77004,1083600.766,661866.560,560.94,CNC1 B  
77005,1083594.388,661870.440,560.89,CNC1  
77006,1083587.608,661860.591,560.65,CNC1 EP2 B  
77007,1083598.946,661853.732,560.74,CNC1  
77008,1083591.461,661850.148,559.94,SGN1 "TANDEMS ONLY  
77009,1083574.393,661853.616,560.17,EP2  
77010,1083577.249,661848.450,559.90,REF  
77011,1083596.342,661818.725,559.53,SGN2 "AUTHORIZED ENTRY ONLY"  
77012,1083614.931,661822.105,559.12,GS  
77013,1083591.598,661817.632,560.14,EP2  
77014,1083582.310,661811.879,560.48,EP1  
77015,1083569.194,661803.711,560.20,GS

77016,1083600.259,661740.880,560.48,GS  
77017,1083615.005,661747.089,560.29,REF  
77018,1083615.890,661747.688,560.56,EP1  
77019,1083625.591,661752.714,560.33,EP2  
77020,1083626.119,661753.727,560.13,REF  
77021,1083646.943,661764.076,559.93,GS  
77022,1083655.047,661741.532,559.97,TR-UNK 18"  
77023,1083677.572,661698.775,560.28,TR-UNK 18"  
77024,1083695.352,661665.478,559.90,GS  
77025,1083677.124,661654.296,560.41,EP2  
77026,1083653.991,661675.270,560.56,EP1 EG1 B  
77027,1083635.305,661656.147,560.24,EG1  
77028,1083631.078,661653.168,560.35,TR-O 24"  
77029,1083564.330,661587.427,557.40,CLF1 B  
77030,1083568.984,661581.737,557.17,CLF1 CLF2 B  
77031,1083615.503,661610.501,558.73,CLF1  
77032,1083606.329,661633.061,559.05,GS  
77033,1083648.761,661631.266,559.56,CLF1 EG1  
77034,1083663.183,661639.791,560.69,CLF1 EG1  
77035,1083670.094,661643.435,560.51,EP1 EG1  
77036,1083689.146,661611.001,560.61,EP1  
77037,1083688.165,661610.085,560.48,CLF1 GATE1 B  
77038,1083704.056,661613.666,560.46,CLF3 B GATE1  
77039,1083701.612,661613.843,560.74,EP2  
77040,1083745.964,661623.328,559.63,CLF3  
77041,1083747.679,661621.538,559.74,SGN1 "BURIED FIBER OPTIC"  
77042,1083766.768,661638.159,560.18,GS  
77043,1083723.928,661646.668,559.70,GS  
77044,1083701.491,661655.086,559.89,GS  
77045,1083690.310,661640.699,560.90,MHS  
77046,1083691.289,661638.623,560.46,CNC2 B CIR  
77047,1083687.696,661639.108,560.51,CNC2  
77048,1083688.768,661642.564,560.44,CNC2  
77049,1083688.620,661642.739,560.48,REF  
77050,1083542.030,661861.098,560.57,GS  
77051,1083784.517,661455.340,562.01,GS  
77052,1083767.005,661448.851,563.91,GS  
77053,1083755.365,661443.951,564.67,GS  
77054,1083741.634,661436.658,564.61,GS  
77055,1083759.503,661409.927,563.52,GS  
77056,1083771.667,661412.767,563.27,GS  
77057,1083782.331,661419.225,562.67,GS  
77058,1083798.413,661426.143,561.48,GS  
77059,1083795.933,661421.296,562.01,TR-O 18"  
77060,1083827.429,661382.215,558.97,GS  
77061,1083814.054,661371.424,559.62,GS  
77062,1083795.272,661358.877,560.08,GS  
77063,1083824.275,661312.744,558.31,GS  
77064,1083842.870,661324.379,558.01,GS  
77065,1083856.129,661334.990,557.94,CNC40 B RECT  
77066,1083856.364,661332.656,557.92,CNC40  
77067,1083854.238,661332.429,557.82,CNC40  
77068,1083868.138,661344.257,557.88,GS  
77069,1083896.439,661302.533,555.90,GS

77070,1083903.300,661302.976,554.78,EG10 B  
77071,1083908.406,661302.987,554.03,EG11 B  
77072,1083923.443,661302.466,555.70,EP10 B  
77073,1083923.088,661271.291,555.00,REF  
77074,1083860.194,661241.455,557.78,VEG10 B -TALLGRASS  
77075,1083888.312,661244.385,556.76,VEG10  
77076,1083907.717,661246.227,553.61,VEG10 EG10  
77077,1083912.021,661246.249,553.30,VEG11 B EG11  
77078,1083921.286,661246.328,554.21,VEG11  
77079,1083926.321,661246.322,554.82,EP10  
77080,1083927.990,661203.049,554.16,EP10  
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77435,1083742.752,661480.070,564.57,BLD10 CIR  
77436,1083731.386,661488.158,563.84,VENT  
77437,1083719.718,661484.257,562.65,BLD10  
77438,1083723.285,661486.555,563.04,EG10 B  
77439,1083719.617,661493.821,562.73,EG10  
77440,1083678.745,661454.188,559.30,MHS  
77441,1083649.055,661513.160,556.80,CNC42 B RECT  
77442,1083643.075,661520.652,556.79,CNC42 (GENERATOR )  
77443,1083647.642,661524.406,556.75,CNC42 EG42 B  
77444,1083657.505,661525.162,555.07,EG42  
77445,1083664.118,661531.584,554.64,EG42  
77446,1083637.237,661605.213,558.44,EP5 CNC45 B  
77447,1083638.480,661603.710,558.43,EP5  
77448,1083639.971,661604.907,558.42,EP5  
77449,1083638.859,661606.368,558.36,EP5 CNC45  
77450,1083638.274,661605.539,558.44,WV  
77451,1083642.366,661614.483,558.80,CNC46 B CIR  
77452,1083642.644,661619.743,559.00,CNC46  
77453,1083647.852,661619.264,559.17,CNC46  
77454,1083648.310,661613.581,559.12,POST W/ CONTROL PANNEL  
77455,1083644.033,661616.296,559.71,VLT 3'X3'  
77456,1083643.782,661613.379,558.84,SGN1 CONFINED SPACE  
77457,1083652.005,661610.869,559.20,EP11  
77458,1083646.476,661606.797,558.53,EP11  
77459,1083646.555,661613.692,558.79,EP5  
77460,1083688.328,661506.354,567.14,BLD3  
77461,1083657.154,661514.556,562.33,BLD5 B RECT  
77462,1083658.446,661524.659,562.50,BLD5  
77463,1083668.490,661523.509,562.20,BLD5  
77464,1083631.073,661537.953,558.66,GS  
77465,1083640.935,661504.657,558.18,GS  
77466,1083655.920,661515.790,555.81,GS  
77467,1083696.318,661513.454,559.69,FF  
77468,1083689.842,661515.809,555.56,DECK1 STEP2 B  
77469,1083698.380,661493.133,565.75,BLD3  
77470,1083702.559,661496.368,565.76,BLD3  
77471,1083709.086,661487.851,561.71,BLD3 CLS  
77472,1083715.629,661461.718,564.16,BLD10  
77473,1083712.397,661472.511,563.46,VENT

77474,1083726.946,661453.737,564.27,VENT  
77475,1083717.391,661446.152,564.08,GS  
77476,1083712.450,661474.083,563.20,EG10 B  
77477,1083692.248,661464.302,560.85,EG10  
77478,1083677.939,661461.725,558.19,EG10  
77479,1083665.207,661473.252,555.59,CNC43 B RECT EG10  
77480,1083658.063,661482.819,555.88,CNC43  
77481,1083662.555,661486.377,555.63,CNC43  
77482,1083656.683,661492.599,556.73,CNC44 B RECT  
77483,1083652.798,661497.682,556.78,CNC44  
77484,1083657.445,661501.261,556.77,CNC44  
77485,1083656.129,661496.207,556.77,TRANS  
77486,1083668.703,661483.820,554.78,INRC  
77487,1083684.533,661478.023,554.92,WV  
77488,1083685.847,661480.200,554.95,WV  
77489,1083681.320,661480.161,554.73,CNC47 B CIR  
77490,1083670.212,661488.396,554.80,CNC47  
77491,1083677.590,661498.320,555.33,CNC47  
77492,1083678.126,661499.344,555.45,CNC48  
77493,1083678.418,661502.438,555.60,CNC48  
77494,1083682.297,661502.255,555.67,CNC48  
77495,1083682.020,661498.616,555.51,CNC48  
77496,1083687.732,661493.809,555.02,CNC49 B  
77497,1083690.895,661494.461,555.47,CNC49  
77498,1083692.102,661488.520,555.46,CNC49  
77499,1083688.577,661487.671,554.95,CNC49  
77500,1083698.071,661492.434,557.32,GS  
77501,1083702.150,661494.557,559.25,GS  
77502,1083708.847,661486.460,561.58,GS  
77503,1083690.493,661496.359,555.37,WV  
77504,1083690.261,661498.895,555.35,WV  
77505,1083672.350,661519.648,555.92,EP1 CNC50 B RECT  
77506,1083684.496,661511.325,555.53,STEP2  
77507,1083686.665,661508.299,555.53,STEP2 EP71 B  
77508,1083677.703,661507.793,555.41,EP71  
77509,1083671.629,661513.925,555.74,EP71 CNC50  
77510,1083667.723,661514.342,555.83,CNC50  
77511,1083663.758,661511.931,555.74,EG50 B  
77512,1083661.967,661503.662,556.25,EG50  
77513,1083657.571,661501.313,556.44,EG50  
77514,1083656.943,661492.651,556.44,EG51 B  
77515,1083658.369,661483.515,555.80,EG51  
77516,1083647.553,661488.614,557.74,GS  
77517,1083632.550,661514.723,558.68,GS  
77518,1083614.368,661542.095,558.21,GS  
77519,1083828.482,661272.610,550.95,INV 12" CIP -6.76'  
77520,1083832.447,661264.272,550.86,INV 12" PVC -6.78'  
77521,1083831.589,661269.057,557.61,MHS  
77522,1083832.781,661255.228,557.32,CO  
77523,1083688.366,661635.183,555.80,INV 12" PVC -4.73  
77524,1083688.692,661644.577,556.21,INV 12" PVC -4.38  
77525,1083669.915,661479.523,553.17,INV 12" PVC1 -1.72  
77526,1083681.551,661450.448,552.70,INV 12" CIP -6.76  
77527,1083676.872,661456.900,552.04,INV 12" CIP -6.70

77528,1083678.223,661458.657,551.98,INV 12" PVC1 -6.70  
77529,1084018.021,660496.424,544.31,ELEC1 B  
77530,1084124.698,660518.134,542.56,MHE "RG&E"  
77531,1084124.041,660521.585,541.89,MHE "RG&E"  
77532,1084253.632,660545.165,543.16,ELEC1  
77533,1083864.281,661290.064,558.08,209  
77534,1083815.908,661300.867,558.24,TR-EV 28"  
77535,1083800.485,661325.100,558.93,TR-EV 28"  
77536,1083762.124,661384.454,561.97,TR-EV 18"  
77537,1083732.131,661392.163,560.01,TL7 B  
77538,1083760.926,661347.405,557.83,TL7  
77539,1083778.601,661359.238,560.09,GS  
77540,1083793.989,661302.875,557.06,TL7  
77541,1083818.138,661280.834,557.65,TL7  
77542,1083823.846,661266.376,557.49,TL7  
77543,1083832.720,661253.908,557.29,REF  
77544,1083823.389,661213.753,556.86,TL7  
77545,1083841.837,661214.453,556.96,GS  
77546,1083860.013,661216.559,557.08,GS  
77547,1083864.459,661155.688,556.28,GS  
77548,1083847.608,661154.546,556.29,GS  
77549,1083831.186,661153.581,556.10,TL7  
77550,1083838.346,661155.302,555.94,REF  
77551,1083838.373,661154.184,557.36,CO  
77552,1083830.522,661093.468,555.30,TL7  
77553,1083847.458,661095.081,555.61,GS  
77554,1083868.963,661095.823,555.27,GS  
77555,1083871.682,661035.751,554.94,GS  
77556,1083848.330,661034.294,555.58,GS  
77557,1083845.108,661033.513,555.40,REF  
77558,1083845.183,661032.584,556.90,CO  
77559,1083835.636,661032.415,555.15,TL7  
77560,1083837.013,660981.139,554.62,TL7  
77561,1083852.771,660980.976,554.54,GS  
77562,1083871.872,660979.462,554.47,GS  
77563,1083876.351,660931.361,554.11,GS  
77564,1083850.688,660931.730,553.81,GS  
77565,1083848.556,660929.633,553.57,REF  
77566,1083848.417,660930.793,555.19,CO  
77567,1083837.933,660929.364,553.96,TL7  
77568,1083841.490,660873.551,551.57,TL7  
77569,1083859.917,660874.094,551.53,GS  
77570,1083880.678,660873.866,551.12,GS  
77571,1083882.934,660835.169,549.31,GS  
77572,1083861.968,660821.886,549.94,GS  
77573,1083851.444,660811.504,549.41,TL7  
77574,1083860.866,660773.472,548.04,TL7  
77575,1083879.886,660781.139,547.61,GS  
77576,1083897.459,660793.329,547.66,GS  
77577,1083852.939,660820.817,550.55,MHS  
77578,1083852.880,660819.102,550.20,REF  
77579,1083924.728,660760.461,547.05,GS  
77580,1083900.621,660738.753,546.43,GS  
77581,1083873.510,660714.117,546.90,TL7

77582,1083876.210,660681.352,546.53,TL7  
77583,1083907.986,660689.897,545.71,GS  
77584,1083941.736,660704.323,545.15,EG7 B  
77585,1083947.119,660705.190,544.75,EG8 B  
77586,1083944.891,660704.840,544.41,BB7 B  
77587,1083956.380,660705.753,547.19,EP8 B  
77588,1083958.772,660670.697,546.34,REF  
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77591,1083950.277,660655.055,543.62,BB7  
77592,1083947.903,660654.660,543.78,EG7  
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77594,1083906.713,660649.911,545.15,GS  
77595,1083878.887,660640.337,546.01,TL7  
77596,1083881.603,660593.212,545.05,TL7  
77597,1083913.026,660593.948,544.44,GS  
77598,1083938.171,660594.661,544.04,GS  
77599,1083947.283,660595.227,542.75,EG7  
77600,1083950.281,660594.732,542.56,BB7  
77601,1083953.115,660594.538,542.87,EG8  
77602,1083965.218,660593.658,545.63,EP8  
77603,1083966.256,660574.363,545.36,EP8  
77604,1083965.698,660562.781,545.10,REF  
77605,1083968.105,660536.650,544.93,EP8  
77606,1083953.846,660573.534,543.36,EG8  
77607,1083952.578,660564.391,543.12,EG8  
77608,1083950.464,660562.515,542.67,EG8 BB8 B  
77609,1083943.837,660564.567,543.17,EG8  
77610,1083940.304,660567.461,543.56,EG8  
77611,1083938.399,660577.243,543.31,EG8 EG7  
77612,1083947.355,660579.116,541.73,BB7  
77613,1083947.231,660574.695,541.02,BB7  
77614,1083950.854,660574.453,540.91,BB7  
77615,1083943.925,660575.305,541.07,INV 8" PVC  
77616,1083945.918,660578.279,540.91,INV 8" CIP  
77617,1083952.726,660574.119,540.86,INV 24" CMP  
77618,1083958.347,660535.073,542.75,BB8  
77619,1083946.174,660533.620,543.18,GS  
77620,1083911.342,660531.740,544.40,GS  
77621,1083911.128,660569.536,544.42,GS  
77622,1083882.701,660564.746,544.46,TL7  
77623,1083892.636,660523.740,545.11,TL7  
77624,1084021.835,660528.817,544.72,EG9 B  
77625,1084016.683,660528.351,544.91,EP9 B  
77626,1084015.136,660567.094,545.24,EP9  
77627,1084019.595,660566.847,544.90,EG9  
77628,1084017.685,660564.378,545.22,REF  
77629,1084018.665,660613.791,545.58,EG9  
77630,1084013.614,660613.703,545.88,EP9  
77631,1084034.607,660614.315,542.45,BB9 B  
77632,1084043.377,660614.298,542.39,BB10 B  
77633,1084068.666,660614.251,544.41,GS  
77634,1084037.749,660570.824,540.17,INV 24" CMP  
77635,1084036.331,660568.989,542.45,TB9 B TB10 B

77636,1084043.890,660562.459,541.24,TB9  
77637,1084087.601,660547.377,541.59,TB9  
77638,1084089.468,660521.101,543.01,GS  
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77640,1084036.726,660573.476,542.46,TB10  
77641,1084044.158,660577.382,540.46,TB10 BB9  
77642,1084046.093,660577.330,540.34,TB10 BB10  
77643,1084053.223,660578.214,541.40,TB10  
77644,1084038.990,660570.729,540.31,BB11 B BB12 B  
77645,1084043.907,660568.958,539.09,BB11  
77646,1084043.297,660571.999,539.49,BB12  
77647,1084045.904,660572.113,539.19,BB12 BB9 BB10  
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77650,1084085.908,660552.535,538.54,BB11  
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77652,1084123.366,660564.867,543.48,GS  
77653,1084118.900,660552.221,541.84,TB10  
77654,1084115.493,660545.664,538.75,BB12  
77655,1084113.898,660543.455,539.01,BB11  
77656,1084112.430,660538.080,541.68,TB9  
77657,1084116.220,660523.557,542.72,GS  
77658,1083813.904,661626.556,559.01,UGFM