APPENDIX 16

WASTEWATER PRELIMINARY DESIGN REPORT

February 2012



Wastewater Preliminary Design Report for The Modified Belleayre Resort at Catskill Park including Wildacres Resort & The Highmount Spa Resort

> Town of Shandaken and Middletown, Ulster and Delaware County, New York

Prepared for:

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WASTEWATER REPORT The Modified Belleayre Resort at Catskill Park

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1.0 INTRODUCTION

Crossroads Ventures, LLC (Crossroads) proposes to construct a resort that offers access to Belleayre Mountain Ski Center, golf, and spa facilities, among other amenities. The Modified Belleayre Resort at Catskill Park (Resort) is divided into two areas served by the two hotels (Wildacres Resort and The Highmount Spa Resort) and other detached units. The project is located both in the Town of Shandaken and Town of Middletown which are in Ulster and Delaware Counties, New York. This Resort will include hotel rooms, restaurants, retail stores, spa and fitness centers, pools, a golf club, and detached lodging units. The Resort site occupies approximately 738 acres and is located adjacent to the existing Belleayre Mountain Ski Center south of NYS Route 28 (refer to "Site Location Map," Appendix A).

All the wastewater generated at the various Resort buildings will be collected and transported to the Pine Hill sewer system, where it will be treated by a state-of-the-art wastewater treatment plant owned and operated by New York City Department of Environmental Protection (NYCDEP).

All of the wastewater facilities for the Modified project will be designed and constructed in conformance with the Recommended Standards for Wastewater Facilities, Great Lakes – Upper Mississippi River Board of Provincial Public Health and Environmental Managers, Current Edition (Ten States Standards).

The wastewater connection from the Resort will be a new connection to the Pine Hill sewer system, not an extension to the sewer system. All of the new sewer pipes and pump stations constructed as part of the Resort will be owned and maintained by Crossroads. The Resort will be creating a transportation corporation for the sewer infrastructure.

2.0 WASTEWATER FLOWS

Expected sanitary wastewater flow rates for the Facility are summarized in Table 2-1.

Wastewa	ter riows
Facility Type	Wastewater Flows (gpd)
Wildacres Hotel	47,500
Wildacres Detached Lodging Units	39,900
Golf Course (clubhouse, maintenance,	15,700
etc.)	
Wildacres Sub-Total	103,100
Highmount Hotel	25,100
Highmount Detached Lodging Units	14,800
Wilderness Activity Center	2,200
Highmount Sub-Total	42,100
Total	145,200
Flow estimates are based on the DEC's Desi	ign Standards for Wastewater Treatment
Works 1988	

Table 2-1 Wastewater Flows

These flow rates represent the full build out condition with 100% occupancy which would be the maximum day flow. An average day is estimated when the Resort is at 70% capacity or approximately 101,600 gpd.

The Wastewater flows were estimated using the 1988 DEC Design Standards for Wastewater Treatment Works and include a 20% reduction for using water saving fixtures. Appendix B has a detailed flow estimate for the proposed facilities.

In addition to these estimated flows, an allowance for infiltration was estimated for the portion of the sewer system that will have gravity sanitary sewers. The only portion of gravity sewer in the proposed system is located at the Highmount Spa Resort.

A total of 3,100 feet of 8-inch gravity sewer is proposed. Design standards for infiltration rates are presented in Ten States Standards (100 gpd per inch diameter mile) and New England Interstate Water Pollution Control Commission Technical Report #16 (250 – 500 gpd per inch diameter mile). Using the most conservative value, the infiltration flow rate was estimated as follows:

- Infiltration Flow Rate = (0.6 miles) X (8 inch) X 500 gpd
- Infiltration Flow Rate = 2,400 gpd

The rest of the Resort will be served by low pressure sewers (force main). No infiltration allowance was estimated for the force main sewers.

2.1 Seasonal Wastewater Flows

The Resort's seasonal and weekday wastewater flow rates were estimated based on the forecasted hotel occupancy rates provided by Crossroads. Appendix B includes a detailed estimate for a typical year at full build out.

Based on this analysis, flows approaching the maximum day flow (140,000 gpd) are anticipated to occur on Friday and Saturday from January through mid March and again during the peak summer season from June through August. During these peak seasons, the weekday flows is expected to be 15% lower than weekend flows (116,000 gpd). Sundays are expected to be the lowest flow dates (94,000 gpd).

During off peak months, the flows are estimated to range from 58,000 gpd during the week to 87,000 gpd during the weekends when the Resort is at full build out.

3.0 COLLECTION SYSTEM

Appendix C includes the preliminary design drawings for the wastewater collection system. In general, the wastewater at Highmount will be collected and pumped to Wildacres. The combined flow will be collected at Wildacres and pumped to the Pine Hill sewer system. After flowing by gravity through the Pine Hill sewer system, the wastewater will be treated at the Pine Hill WWTP that is owned and operated by NYCDEP. The WWTP discharges all its treated wastewater to Birch Creek.

To limit the disturbance caused by open cutting trenching methods, it is recommended to use directional drilling methods as much as possible for the forced main sections of sewers. Directional drilling will be required when crossing wetlands, streams, and highways.

3.1 Highmount Spa Resort

As shown on the preliminary engineering drawings, the wastewater from the Highmount Hotel and the detached lodging units will be conveyed to a below-grade pump station with duplex submersible pumps.

With a maximum day flow rate of 42,000 gpd and a peaking factor of 4, the capacity of the pump station will be 120 gpm.

The below grade pump station will have a wet well with two submersible pumps. Each pump will have a capacity of 120 gpm. The pump station will receive its power from the hotel on a circuit that is backed up with a back-up generator.

The 4-inch force main will be approximately 4,600 linear feet and will connect with the low pressure sewer system within the Wildacres Resort.

3.2 Wildacres Resort

As shown on the preliminary engineering drawings, the Wildacres Hotel, Clubhouse and detached lodging units will be served by low pressure sewers (force main) with each buildings being served with duplex grinder pumps.

The wastewater flow is collected at a below-grade pump station that is north of the golf course's hole 4 Tee. This pump station will be the final point of collection for all the Resort's wastewater. The pump station will be adjacent to the proposed 420,000 gallon equalization tank.

With the total flow of 145,000 gpd and a peaking factor of 4, the design pumping rate of the pump station is 400 gpm. Because buildout of the project will take place over a number of years, the pumps will have variable frequency drives (VFD) to operate at a lower flow rate initially and then adjusted as flows increase. The initial pump rate is projected to be 280 gpm.

The below-grade pump station will have a wet well with two submersible pumps. Each pump will have VFD with a capacity of 400 gpm. The pump station will have its own generator for backup power since it is not near the Wildacres Hotel.

The 6-inch forced main will be approximately 11,000 linear feet and will discharge at a gravity sewer on Academy Road in Pine Hill.

3.2.1 Wildacres Front 9 Village

The detached lodging units in the Wildacres Front 9 Village area located in the northeastern portion of the Resort will be served by grinder pumps and a low pressure sewer system, where small diameter pipe connects the grinders and conveys the flow without the use of gravity sewers and manholes.

The combined discharge from the low pressure sewer system will discharge to the pump station at Wildacres.

3.3 Connection to Pine Hill Sewer System

All of the sewer infrastructure will be located on the Resort's private property with the exception of a few road crossings and the 6-inch forced main that will carry the flow to Pine Hill. The forced main is proposed to be located within the State Highway Route 28 right-of-way.

The discharge point would be an existing gravity manhole located on Academy Street in Pine Hill as shown on the preliminary engineering drawings.

3.4 Off-Site Wastewater

The Resort will not connect properties outside its property to its wastewater system, nor accept wastewater from other properties.

4.0 FLOW METERING

Based on the Agreement in Principle, Crossroads will pay its sewer fee based on actual daily flow rates, which are established by metering the flow as it leaves the Resort.

All of the wastewater generated at the Resort will flow to the Wildacres Pump Station. Thus, the discharge from the pump station provides the ideal location for metering the wastewater flow.

A magnetic type "Mag" meter of the full diameter of the forced main pipe is recommended at the discharge of the Wildacres pump station. The meter would be located in a below-ground concrete vault which will also have the pump station's valves and by-pass connections.

To allow for easy access for reading the meter, a remote transmitter will be provided at the above-grade control panel. The flow meter transmitter will total the flow rates and provide a readout of the instantaneous flow rate.

The agreed-upon sewerage fees are \$1.43 per 1,000 gallons.

5.0 PINE HILL WWTP

5.1 Sewer System Description

The sewer system is limited to the former Village of Pine Hill. The Belleave Ski center is currently the only large user in the system (up to 60,000 gpd).

5.2 Treatment of Resort's Wastewater Flows

The Pine Hill WWTP has a design flow of 500,000 gallons per day (gpd) and it provides advanced wastewater treatment including microfiltration of the final effluent per NYCDEP standards. The average day flows of the Pine Hill WWTP are reported at 130,000 gpd based on current operational reports.

The proposed 145,200 gpd wastewater flow rate is expected to have traditional load characteristics of sanitary wastewater, which are

- BOD of 200 mg/l
- TSS of 200 mg/1
- Ammonia of 40 mg/1

As described in Section 2.1, the flow rates in the Resort will vary based on occupancy. Flows will range from 58,000 gpd (Sundays) to 87,000 gpd (Friday-Saturday) during off-peak months and from 94,000 gpd (Sundays) to 140,000 gpd (Friday-Saturday) during peak months. The wastewater loads are expected to vary proportionally with the flow rates as follows:

Off-Peak Occupancy Loads

- BOD from 98 lbs/day to 145 lbs/day
- TSS from 98 lbs/day to 145 lbs/day
- Ammonia from 19 lbs/day to 29 lbs/day

Peak Occupancy Loads

- BOD from 157 lbs/day to 234 lbs/day
- TSS from 157 lbs/day to 234 lbs/day
- Ammonia from 31 lbs/day to 47 lbs/day

In addition to the typical sanitary wastewater loads, the wastewater will include the backwash from the Resort's water treatment plant which will be removing arsenic.

The levels of arsenic that will need to be removed range from 0.031 mg/l (K2 Well) to 0.018 mg/l (K3 Well). The threshold concentration for arsenic to inhibit the activated sludge process is 0.1 mg/l and the threshold concentration to inhibit the nitrification process is 0.34 mg/l. Because of the low arsenic concentration levels, the water treatment plant backwash is not expected to negatively impact the Pine Hill WWTP.

The wastewater temperature from the Resort is expected to be similar to municipal wastewater temperature. In the winter months, temperatures near 10 degrees C are expected and temperatures near 20 degrees C are expected in the summer.

The Highmount Spa is anticipated to have six spa tubs and the Wildacres Hotel is anticipated to have three spa tubs. A typical spa tub would have a water temperature of 100 degrees F and people would "soak" for 30 minutes in which the temperature would drop form the original 100 degrees F. Thus, the Resort's activities are not expected to affect these typical temperature parameters due to the limited water use in the spa bath water compared to the Resort use.

The proposed project could more than double the average day flow (130,000 gpd to 275,000 gpd), however this higher flow rate would only be 55% of the design and permitted capacity of the WWTP. Since the Pine Hill WWTP has sufficient treatment capacity and the loadings from the Resort are similar to conventional residential wastewater, the proposed project will not adversely affect the treatment capacity of the WWTP, nor its ability to meet its SPDES discharge permit.

5.3 Impact on Chlorine Use

The Pine Hill WWTP uses UV light reactors instead of chlorine to disinfect the wastewater before it is discharged to the stream. The existing UV system has capacity to treat all of the wastewater flow from the Resort. Thus, the Resort's wastewater flows will not cause the Pine Hill WWTP to use chlorine in its treatment process and no impact to aquatic habitats due to the use of chlorine is expected.

5.4 Equalization Tank

The Pine Hill WWTP currently experiences high flows during wet weather events due to inflow and infiltration issues with the existing Pine Hill sewer system. To assist the WWTP in dealing with the high flows, the Agreement in Principle requires Crossroads to pay for a flow equalization tank. Exhibit H from the Agreement in Principle is included in Appendix D. In recent discussions between the Applicant and NYCDEP, NYCDEP expressed a preference for locating a storage tank on the project site instead of at the Pine Hill WWTP. In accordance with NYCDEP's preference, the design for the project wastewater infrastructure was adjusted to include a storage tank on the project site that will be built by the Resort and operated and maintained by NYCDEP. The tank is proposed to be located to the north of the golf hole #4 and accessed off of Van Loan Road.

As stipulated in the Agreement in Principle dated September 5, 2007, the capacity of the equalization tank is 390,000 gallons (twice the maximum average day flow allowed by the Agreement in Principle of 195,000 gpd) plus an infiltration flow for the sewer pipe in the Resort. The infiltration flow was determined in Section 2.0 to be 2,400 gpd.

Thus, the required capacity of the equalization tank is 390,000 gallons plus 2,400 gallons which is 392,400 gallons.

Based on standard sizes for equalization tanks, a tank with 56-foot diameter and 24foot high that has a capacity of 420,000 gallons with 12-inches of freeboard was selected to provide flow equalization.

Appendix E has a preliminary design drawing for the equalization tank and supporting equipment. The supporting equipment would include a mechanical aerator mixer, odor control equipment, and a submersible duplex pump station.

The equalization tank would normally be by-passed and the pump station would pump all of the Resort's wastewater to Pine Hill. During periods of high flows, if requested by the Pine Hill WWTP, the wastewater would be diverted to the equalization tank. This would benefit the WWTP by lowering the peak flows.

Since there is very limited room at the Pine Hill WWTP site, the equalization tank would be located at the Resort's property but it would be operated and maintained by the NYCDEP.

5.5 Potential Impacts to Birch Creek

Since the proposed wastewater flow rate from the Resort can be introduced to the Pine Hill WWTP without increasing its permitted flow rate or its rated capacity, the additional flow is not expected to have any adverse impact to the Birch Creek which is the receiving stream of the WWTP.

6.0 OPERATION AND MAINTENANCE

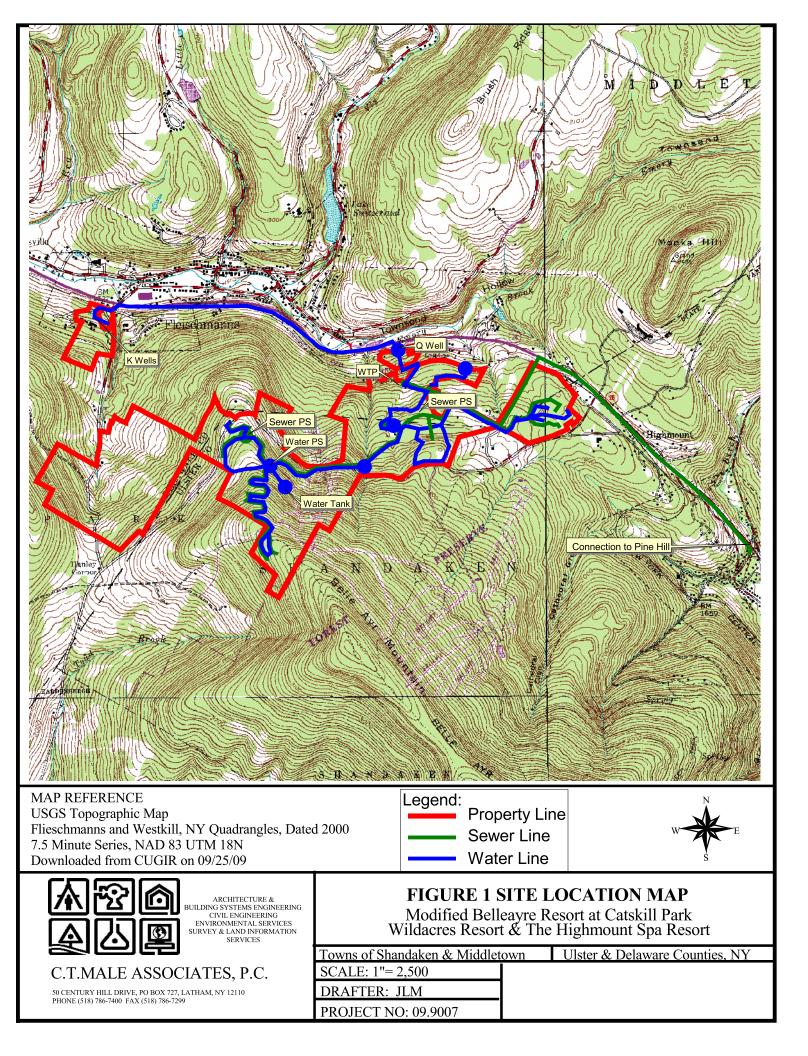
All of the proposed infrastructure including the gravity sewers, pressure sewers, pump stations, and forced mains will be owned and operated by the Resort with the exception of the equalization tank.

The required operation and maintenance of the proposed wastewater system is expected to be very minimal to keep the system functioning as designed. The two pump stations are the only aspects that will require routine inspection and periodic maintenance. Both pump stations will be equipped with automatic call out alarm systems to alert the maintenance staff if something needs immediate attention.

The Resort's maintenance staff will need to have trained individuals who will check the status of the pump stations and sewers and respond to maintenance calls. If the staff does not have the equipment or the resources to address a problem, they will need to hire a contractor that specializes in that type of work. C.T. MALE ASSOCIATES, P.C.

APPENDIX A

Site Location Map



C.T. MALE ASSOCIATES, P.C.

APPENDIX B

Flow Estimates

Facility Type	Units	Number	Flow Rate Per Unit (gal/day)	(1) Wastewater Flows (gpd)	Daily Demand Reference Standard
			(3		
Wildacres Resort and Golf Club Hotel					
208 Lodging Units w/o kitchens	Bedrooms	208	120		Hotel per room
42 Suites w/ kitchens	Bedrooms	76	150	11,400	motel with kitchen
Restaurant (2 rest; 450 seats; 3 seatings)	Patrons	1,350	35		ordinary Restaurant
** w/ 100 Seat Beverage Lounge (2 seatings)	Patrons	200	20	2,000	Tavern little food service
Retail Stores (10)	1000 SF	13	0.1	100	shopping Center per sq. ft
** Public Bathrooms	Toilets	4	400	1,600	shopping ceneter per toilet
Spa and Fitness Center					
** w/ 15 Treatment Rooms and Lap Pool	Patrons	100	25	2,500	clubs per non-resident member
Indoor Pool	Swimmers	100	10	1 000	swimming pools
				1,000	amining poola
Meeting Space	100 SF 100 SF	18	0.1		office buildings per sq ft
Offices - Administration and Operating	100 5F	55	0.1		office buildings per sq ft Subtotal
				47,464	20% Reduction for water saving fixtures
Detached Lodging Units 153 - 2 Bdrm Lodging Units	Bedrooms	306	300	45 900	Apartments 2 bedroom
10 - 3 Bdrm lodging Units	Bedrooms	30	400	4,000	Apartments 3 bedroom
					Subtotal 20% Reduction for water saving fixtures
Lodging Unit Clubhouse				39,920	
**Pool/ Health Club	Swimmers	139	10		swimming pool per swimmer
**40 Seat Snack Bar (2 seatings) Offices - Reception/Sales/Operating	Patrons 100 SF	80	35		ordinary restaurant office building per sq ft
Conference Center	100 SF	51	0.1		office building per sq ft
-Ballroom/Auditorium (2)	Seats	700	3	2,100	theater movie per seat
Golf Course Clubhouse	Members	154	25	3,850	Clubs per non-resident member
** w/ 40 Seat Snack Bar (4 seatings)	Patrons	160	35	1,400	ordinary restaurant
** w/ Steam and Sauna ** w/ Offices - Pro/Sales/Operating	Patrons 100 SF	125	10		Swimming Pools per swimmer office building per sq ft
w/ Onces - 110/Dales/Operating	100 01		0.1	10	
Satelite Golf Maintenance	100 SF	15	0.1	10	office building per sq ft
Golf Maintenance	100 SF	85	35	2,975	factories with showers
** w/ offices/showers/lockers					
Children's Center	100 SF	75	5	375	Parks per picnicker
Employee Cafeteria and Lockers	Employees	245	20	4,900	food service catering per person
				19,680	Subtotal
					20% Reduction for water saving fixtures
Highmount Resort and Spa				103,128	Wildacres Subtotal
Hotel					
120 Lodging Units w/o kitchens 53 Lodging Units w/ kitchens	Bedrooms Bedrooms	120	120		motel with kitchen motel with kitchen
Restaurant (125 seats; 3 seatings)	Patrons	375	35		ordinary restaurant
Lounge (50 seats; 2 seatings)	Patrons	100	35		ordinary restaurant
Spa with 25 treatment rms/fitness ctr/lap pool Café (40 seats; 2 seatings)	Patrons Patrons	150	10		Day Camp ordinary restaurant
Meeting Space	100 SF	25	0.1	10	office building per sq ft
Administrative Offices	100 SF	76	0.1		office building per sq ft Subtotal
					20% Reduction for water saving fixtures
Detached Lodging Units	Badroom		000		
33 - 2 Bdrm Lodging Units 10 - 3 Bdrm Lodging Units	Bedrooms	66	300		Dwellings and apartments Dwellings and apartments
Employee Cafeteria and Lockers	Employees	229	20	4,580	Day Workers
				18,480	Subtotal
Address Andres Contra				14,784	20% Reduction for water saving fixtures
Wilderness Activity Center Café with Lounge and Library	Patrons	60	35	2,100	ordinary restaurant
_ocker Rooms	Toilets	4	5	20	Stores
Sauna/ Steam Room/ Jacuzzi	Patrons	60	10	600	clubs per non-resident member
					Subtotal
		-		2,176	20% Reduction for water saving fixtures
				42.076	Highmount Subtotal
				145 204	Total Daily Flow at 100% occupancy
					Total Daily Flow at 70% Occupancy

(1) DEC Design Standards for Wastewater Treatment Works 1988

Crossroads Ventures, LLC The Modified Belleayre Resort at Catskill Park Seasonal Wastewater Flow Estimates

100% Occupancy Flow	/ =	145,200	gpd	BOD = TSS = NH4 =	200	mg/l mg/l mg/l
Month Week January	Day 1 Sun Mon Tu Wed Th Fri	Occupancy (%) 65 80 80 80 80 80 95	94,380 116,160 116,160 116,160 116,160 137,940	157 194 194 194 194 230	TSS (lbs) 157 194 194 194 194 230	NH4 (lbs) 31 39 39 39 39 46
January	Sat 2 Sun Mon Tu Wed Th Fri Sat	95 65 80 80 80 80 80 95 95	137,940 94,380 116,160 116,160 116,160 116,160 137,940 137,940	230 157 194 194 194 194 230 230	230 157 194 194 194 194 230 230	46 31 39 39 39 39 46 46
January	3 Sun Mon Tu Wed Th Fri Sat	65 80 80 80 80 95 95	94,380 116,160 116,160 116,160 116,160 137,940 137,940	157 194 194 194 194 230 230	157 194 194 194 194 230 230	31 39 39 39 39 46 46
January	4 Sun Mon Tu Wed Th Fri Sat	65 80 80 80 80 80 95 95	94,380 116,160 116,160 116,160 116,160 116,160 137,940 137,940	157 194 194 194 194 230 230	157 194 194 194 194 230 230	31 39 39 39 39 46 46
February	1 Sun Mon Tu Wed Th Fri Sat	95 65 80 80 80 80 80 95 95	94,380 116,160 116,160 116,160 116,160 137,940 137,940	230 157 194 194 194 230 230	230 157 194 194 194 230 230	31 39 39 39 39 46 46
February	2 Sun Mon Tu Wed Th Fri Sat	65 80 80 80 80 80 80 95	94,380 116,160 116,160 116,160 116,160 137,940 137,940	157 194 194 194 194 230 230	157 194 194 194 194 230 230	31 39 39 39 39 46 46
February	3 Sun Mon Tu Wed Th Fri Sat	65 80 80 80 80 95 95	94,380 116,160 116,160 116,160 116,160 137,940 137,940	157 194 194 194 194 230 230	157 194 194 194 194 230 230	31 39 39 39 39 46 46
February	4 Sun Mon Tu Wed Th Fri Sat	65 80 80 80 80 95 95	94,380 116,160 116,160 116,160 116,160 137,940 137,940	157 194 194 194 194 230 230	157 194 194 194 230 230	31 39 39 39 39 46 46

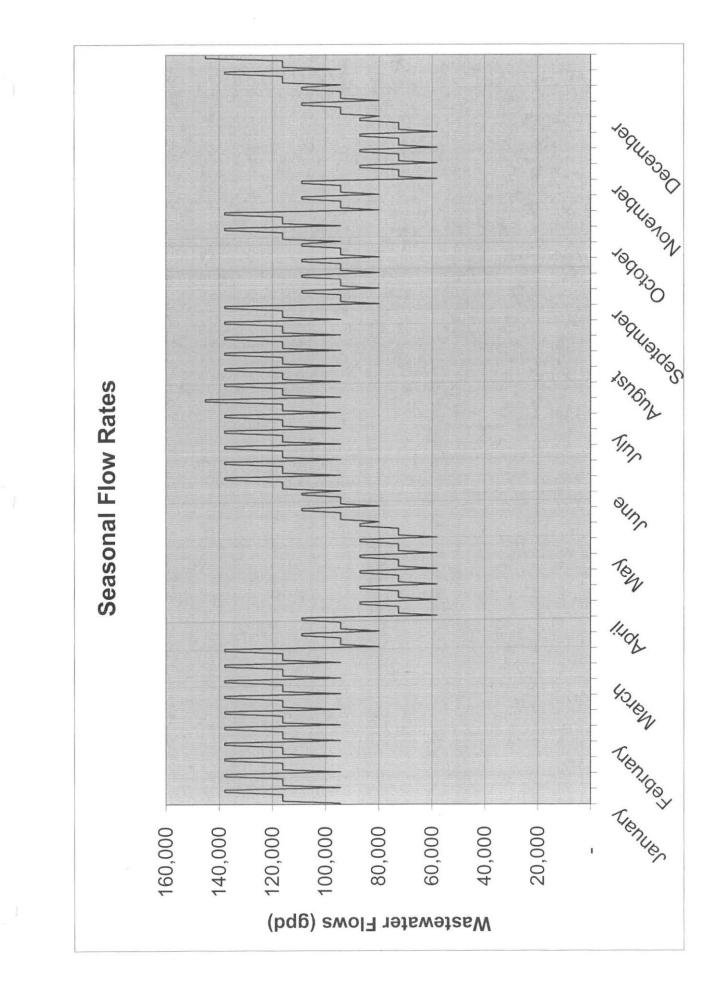
March	1 Sun	65	94,380	157	157	31		
	Mon	80	116,160	194	194			
	Tu	80	116,160	194	194	39		
	Wed	80	116,160	194	194	39		
	Th	80	116,160	194	194	39		
				230	230	46		
					230	46		
March						31		
				194	194			
					194			
March								
Warch								
March								
Warch								
A								
April								
April								
April	3 Sun	40						
	Mon	50	72,600					
	Tu	50	72,600	121				
	Wed	50	72,600	121				
	Th	50						
	Fri	60	87,120	145	145	29		
	Sat	60	87,120	145	145	29		
April	4 Sun	40	58,080	97	97	19		
and a set of the set of the	Mon	50	72,600	121	121	24		
	Tu	50	72,600	121	121	24		
		50	72,600	121	121	24		
		50		121	121	24		
						1000		
	March March March April	March 2 Sun March 2 Sun Mon Tu Sat Mon Tu Wed Th Fri Sat March 3 Sun Mon Tu Wed Th Fri Sat March 4 Sun Mon Tu Wed Th Fri Sat April 1 Sun Mon Tu Wed Th Fri Sat Sat April 2 Sun Mon Tu Wed Th Fri Sat Sat April 3 Sun Mon Tu Wed Th Fri Sat Sat Sat Sat April 4 Sun Mon Tu Wed Th Fri Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat	Mon 80 Tu 80 Wed 80 Th 80 Fri 95 Sat 95 Sat 95 Mon 80 Tu 80 Mon 80 Tu 80 March 2 Sun March 3 Sun Sat 95 March 4 Sun Wed 65 Th 65 Wed 65 Th 65 March 4 Sun March 4 Sun March 55 Mon 65 Th 65 Fri 75 Sat 75 April Sun April	Mon 80 116,160 Tu 80 116,160 Th 80 116,160 Fri 95 137,940 March 2 Sun 65 94,380 Mon 80 116,160 Tu 80 116,160 Wed 80 116,160 Wed 80 116,160 Wed 80 116,160 Th 80 116,160 Wed 80 137,940 Sat 95 137,940 March 3 Sun 55 Wed 65 94,380 Th 65 94,380 Th 65 94,380 Tu 50 72,600	Mon 80 116,160 194 Tu 80 116,160 194 Th 80 116,160 194 March 2 Sun 65 94,380 157 March 2 Sun 80 116,160 194 Tu 80 116,160 194 Tu 80 116,160 194 Tu 80 116,160 194 Fri 95 137,940 230 March 3 Sun 55 79,860 133 Mon 65 94,380 157 Tu 65 94,380 157 Th 65 94,380 157 Wed 65 94,380 157 Th 65 94,380	Mon 80 116,160 194 194 Tu 80 116,160 194 194 Wed 80 116,160 194 194 Th 80 116,160 194 194 Fri 95 137,940 230 230 March 2 Sun 65 94,380 157 157 Mon 80 116,160 194 194 194 Wed 80 116,160 194 194 Wed 80 116,160 194 194 Tu 80 116,160 194 194 Fri 95 137,940 230 230 March 3 Sun 55 79,860 133 133 March 4 Sun 55 79,860 137 157 Tu 65 94,380 157 157 Wed 65 94,380 157 157	Mon 80 116, 160 194 194 39 Tu 80 116, 160 194 194 39 Wed 80 116, 160 194 194 39 Th 80 116, 160 194 194 39 Th 80 116, 160 194 194 39 March 2 Sun 65 94, 380 157 157 31 Mon 80 116, 160 194 194 39 14 39 Tu 80 116, 160 194 194 39 14 39 March 2 Sun 65 94, 380 157 157 31 March 3 Sun 55 79, 860 133 133 27 Mon 65 94, 380 157 157 31 Tu 65 94, 380 157 157 31 March 4 Sun 55 79, 860 133	March BO 116,160 194 194 39 Wed 80 116,160 194 194 39 Wed 80 116,160 194 194 39 Fri 95 137,940 230 230 46 Sat 95 137,940 230 230 46 March 2 Sun 65 94,380 157 137 March 80 116,160 194 194 39 Wed 80 116,160 194 194 39 Fri 95 137,940 230 230 46 March 3 Sun 55 79,860 133 133 27 March 3 Sun 55 79,860 133 133 27 March 65 94,380 157 157 31 157 157 31 Wed 65 94,380 157 157

May	1 Sun	40	58,080	97	97	19	
	Mon	50	72,600	121	121	24	
	Tu	50	72,600	121	121	24	
	Wed	50	72,600	121	121	24	
	Th	50	72,600	121	121	24	
	Fri	60	87,120	145	145	29	
	Sat	60	87,120	145	145	29	
May	2 Sun	40	58,080	97	97	19	
	Mon	50	72,600	121	121	24	
	Tu	50	72,600	121	121	24	
	Wed	50	72,600	121	121	24	
	Th	50	72,600	121	121	24	
	Fri	60	87,120	145	145	29	
				145	145	29	
	Sat	60	87,120				
May	3 Sun	55	79,860	133	133	27	
	Mon	65	94,380	157	157	31	
	Tu	65	94,380	157	157	31	
	Wed	65	94,380	157	157	31	
	Th	65	94,380	157	157	31	
	Fri	75	108,900	182	182	36	
	Sat	75	108,900	182	182	36	
May	4 Sun	55	79,860	133	133	27	
	Mon	65	94,380	157	157	31	
	Tu	65	94,380	157	157	31	
	Wed	65	94,380	157	157	31	
	Th	65	94,380	157	157	31	
	Fri	75	108,900	182	182	36	
	Sat	75	108,900	182	182	36	
June	1 Sun	65	94,380	157	157	31	
Julie	Mon	80	116,160	194	194	39	
	Tu	80	116,160	194	194	39	
	Wed	80	116,160	194	194	39	
		80	116,160	194	194	39	
	Th					46	
	Fri	95	137,940	230	230		
	Sat	95	137,940	230	230	46	
June	2 Sun	65	94,380	157	157	31	
	Mon	80	116,160	194	194	39	
	Tu	80	116,160	194	194	39	
	Wed	80	116,160	194	194	39	
	Th	80	116,160	194	194	39	
	Fri	95	137,940	230	230	46	
	Sat	95	137,940	230	230	46	
June	3 Sun	65	94,380	157	157	31	
	Mon	80	116,160	194	194	39	
	Tu	80	116,160	194	194	39	
	Wed	80	116,160	194	194	39	
	Th	80	116,160	194	194	39	
	Fri	95	137,940	230	230	46	
	Sat	95	137,940	230	230	46	
luno	4 Sun	65	94,380	157	157	31	
June						39	
	Mon	80	116,160	194	194		
	Tu	80	116,160	194	194	39	
	Wed	80	116,160	194	194	39	
	Th	80	116,160	194	194	39	
	Fri	95	137,940	230	230	46	
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	July	2 Sun	65	94,380	157	157	31
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		Fri	100	145,200	242	242	48
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	Sat	60	87,120	145	145	29	
November	2 Sun	40	58,080	97	97	19	
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	Sat	60	87,120	145	145	29	
November	4 Sun	40	58,080	97	97	19	
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Forecast of HOTEL Occupancy Rates at the Belleavre Resort at Catskill Park

SDEIS is using an average annual Occupancy Rate of 70% for WILDACRES 65% for HIGMOUNT SPA

SEASONAL FORECAST by month:

January:		HIGH
February:		HIGH
March:	1-15	HIGH
	16-31	MODERATE
April:		LOW
May:	1-15	LOW
-	16-30	MODERATE
June:		HIGH
July:		HIGH
August:		HIGH
September		MODERATE
October:	1-15	HIGH
	16-31	MODERATE
November	:	LOW
December	:1-15	MODERATE
	16-31	HIGH

Total HIGH weeks:	29
Total MODERATE weeks:	13
Total LOW weeks:	10

(average	occupancy:	77.5%)
(average	occupancy:	61.4%)
(average	occupancy:	46.4%)

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% of Occupancy per Season by weekday:

MONDAY - THURSDAY

HIGH:	70 - 80%
MODERATE:	55 - 65%
LOW:	40 - 50%

FRIDAY & SATURDAY

HIGH:	85 - 95%
MODERATE:	65 - 75%
LOW:	50-60%

SUNDAY

HIGH:	60 - 65%
MODERATE:	45 - 55%
LOW:	30-40%

C.T. MALE ASSOCIATES, P.C.

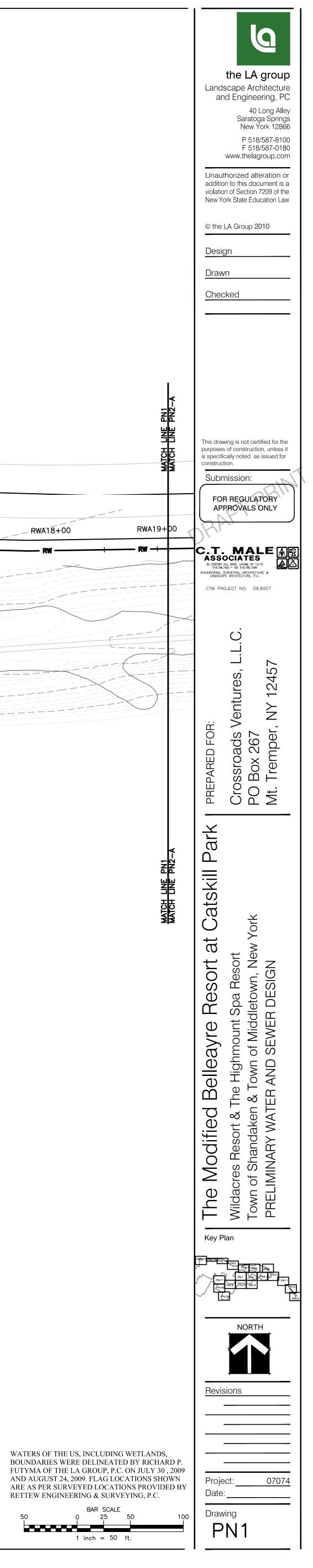
APPENDIX C

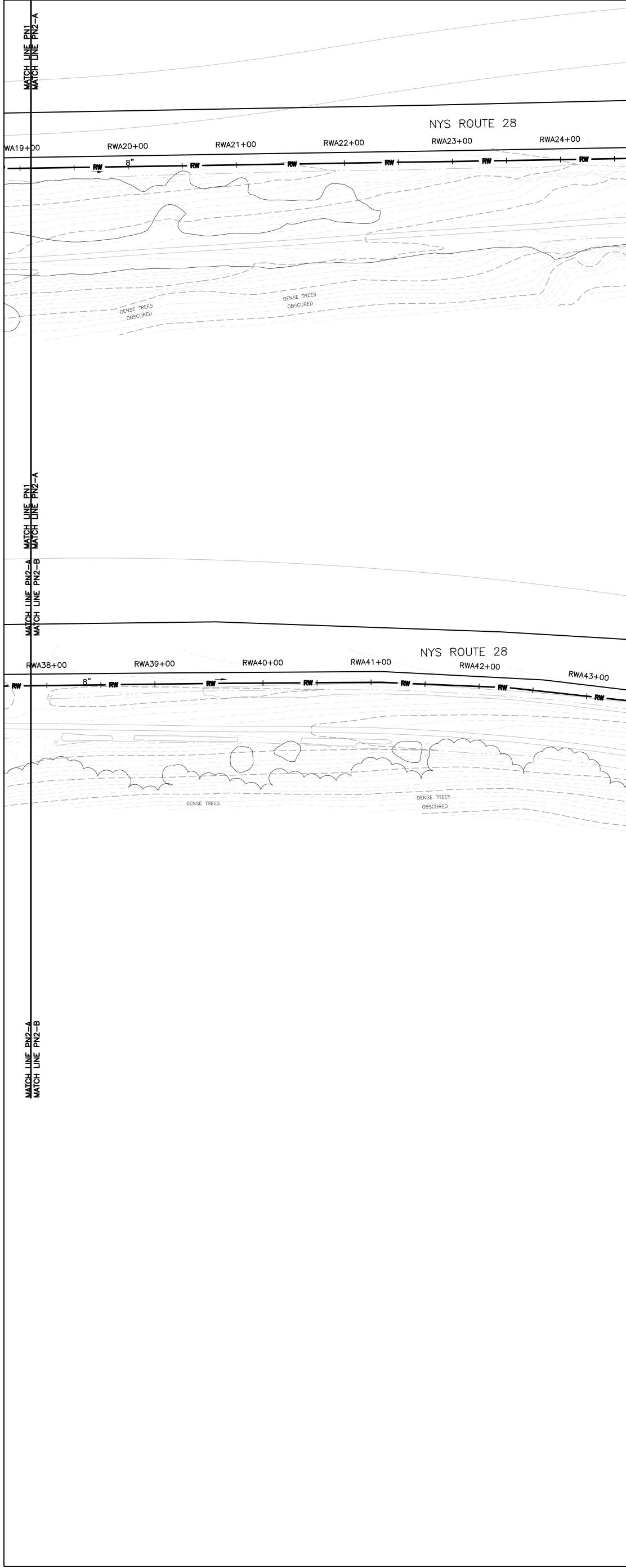
Preliminary Design Drawings



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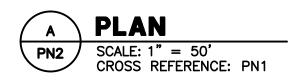




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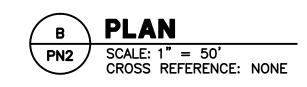
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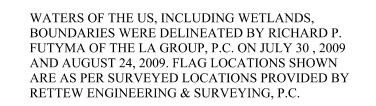
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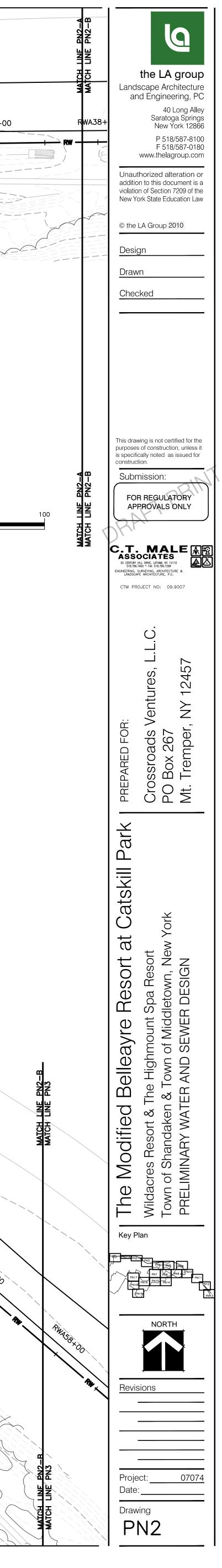


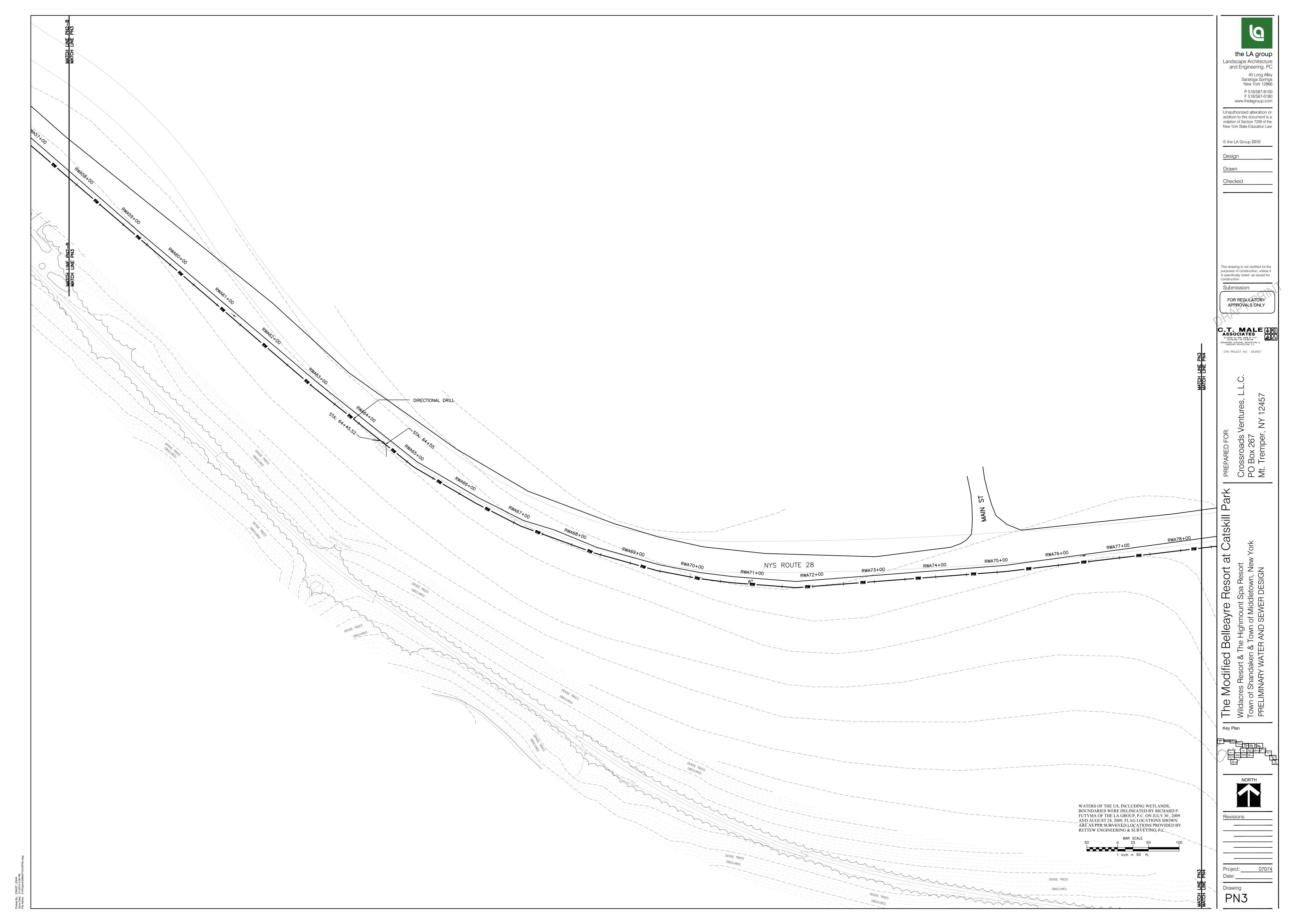
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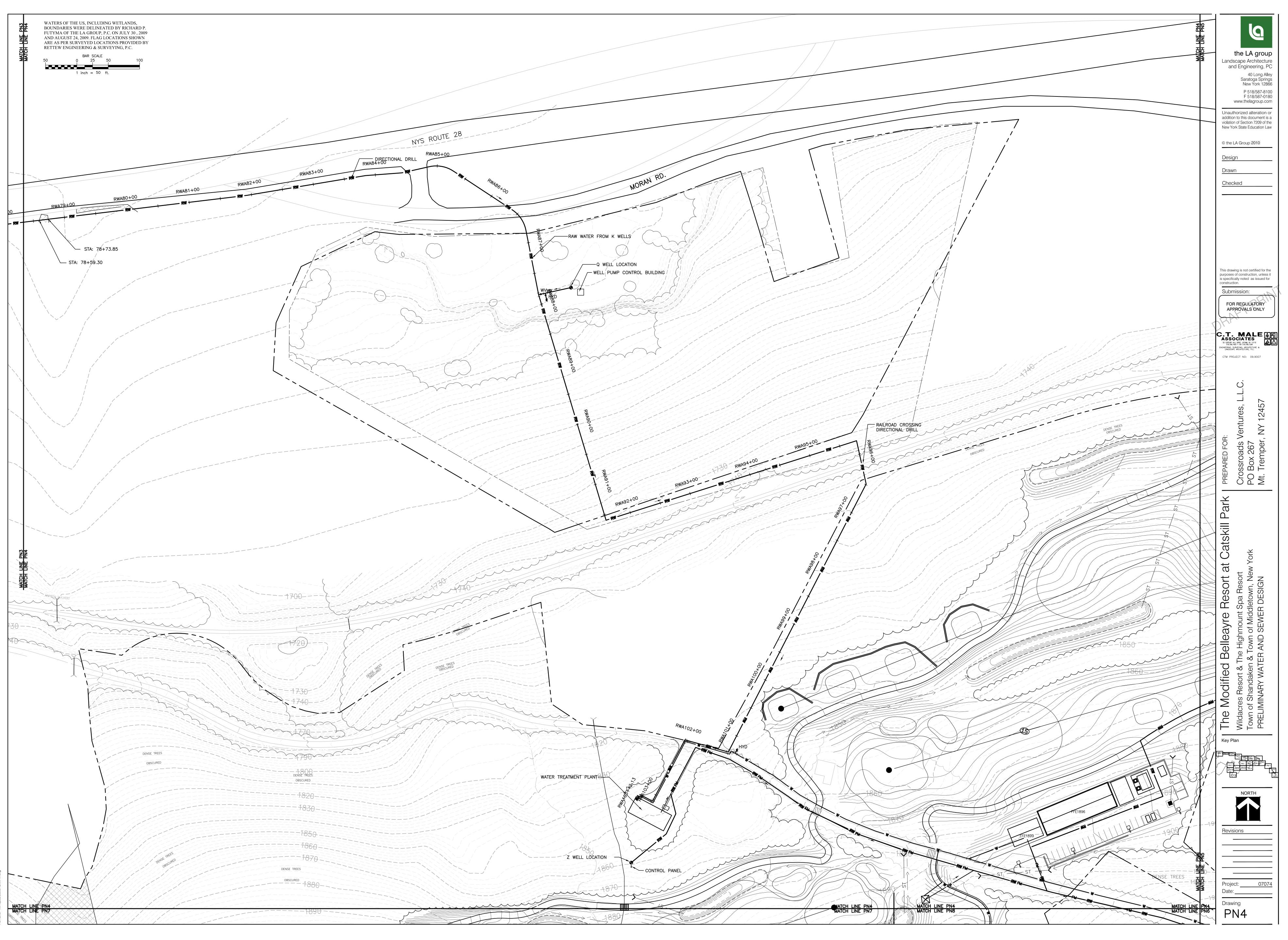


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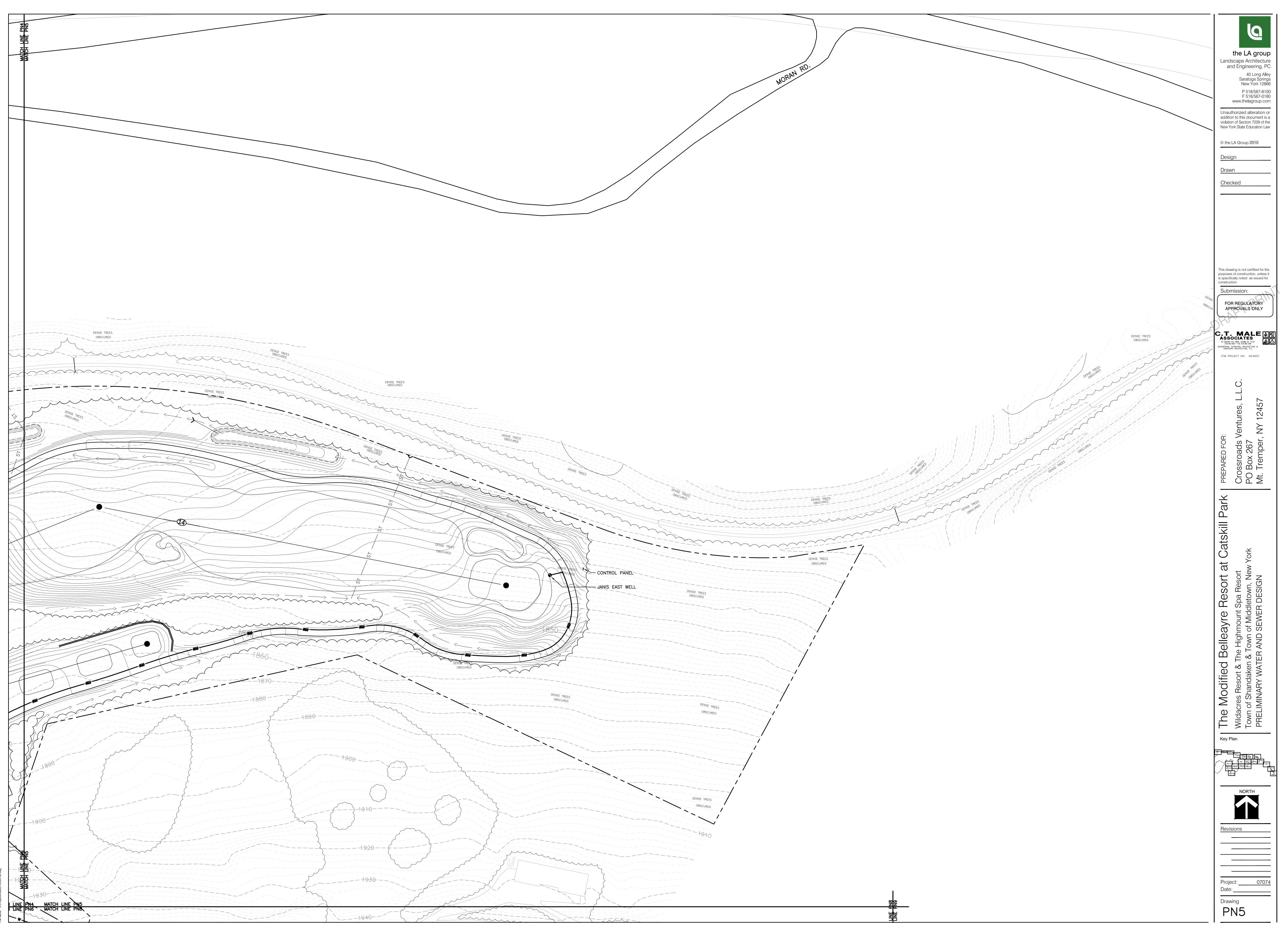
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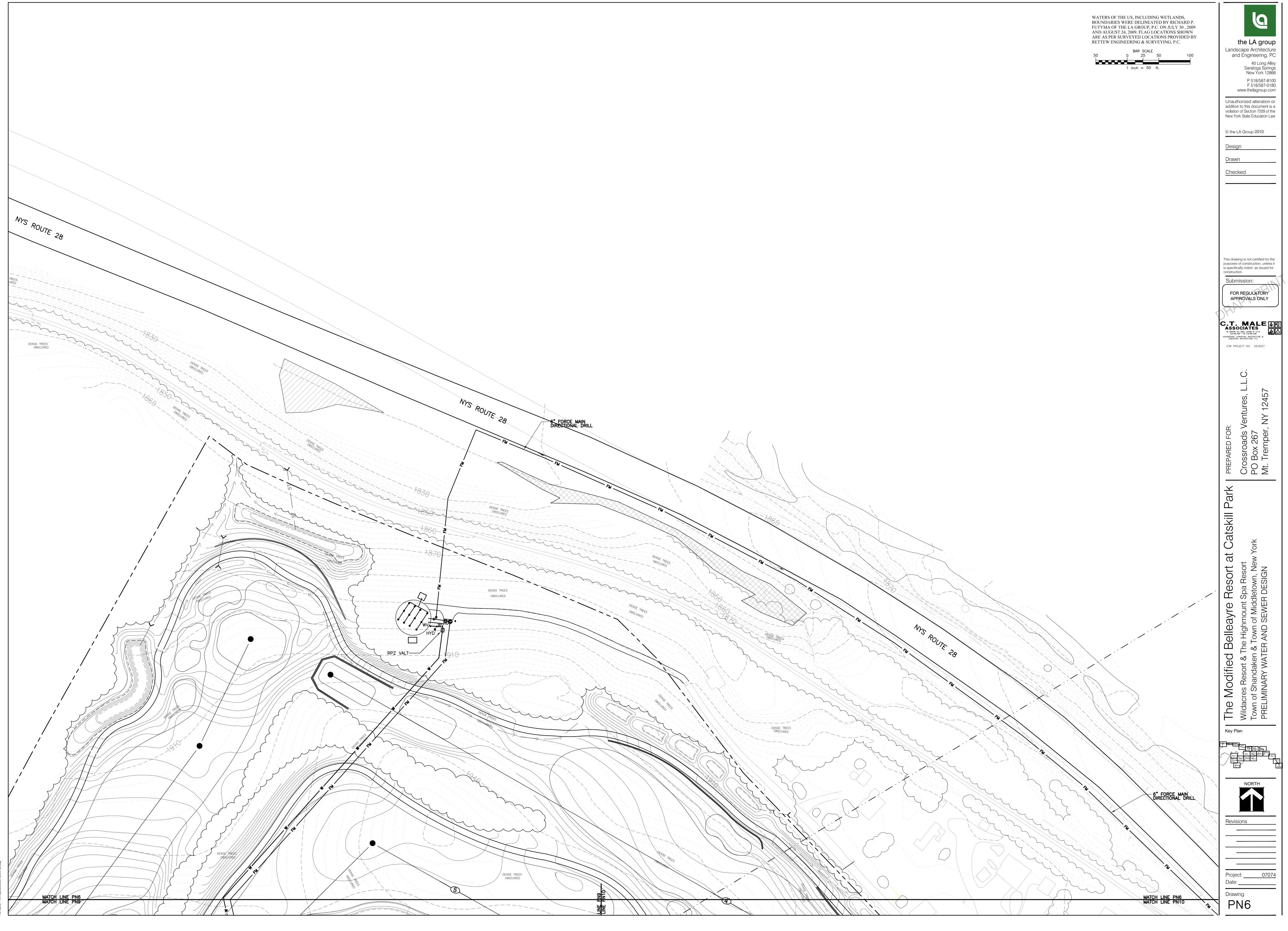


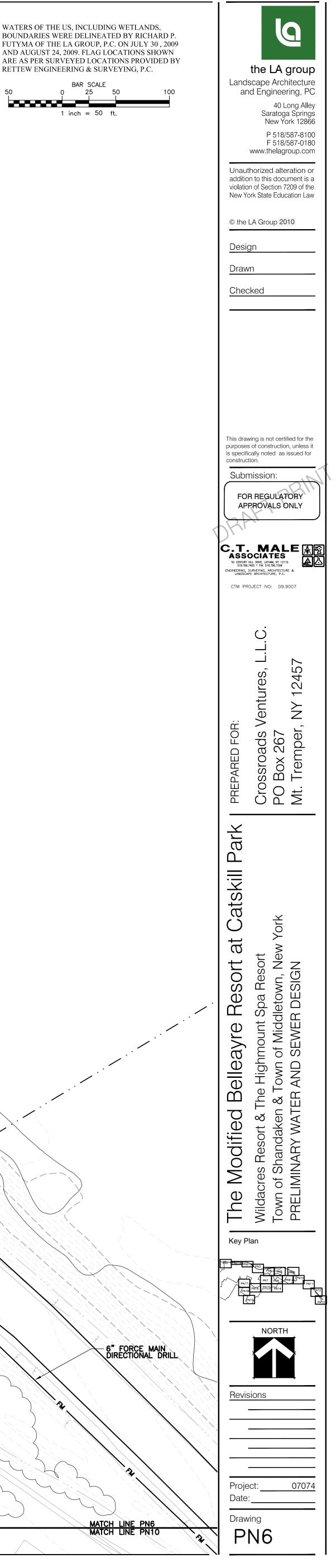


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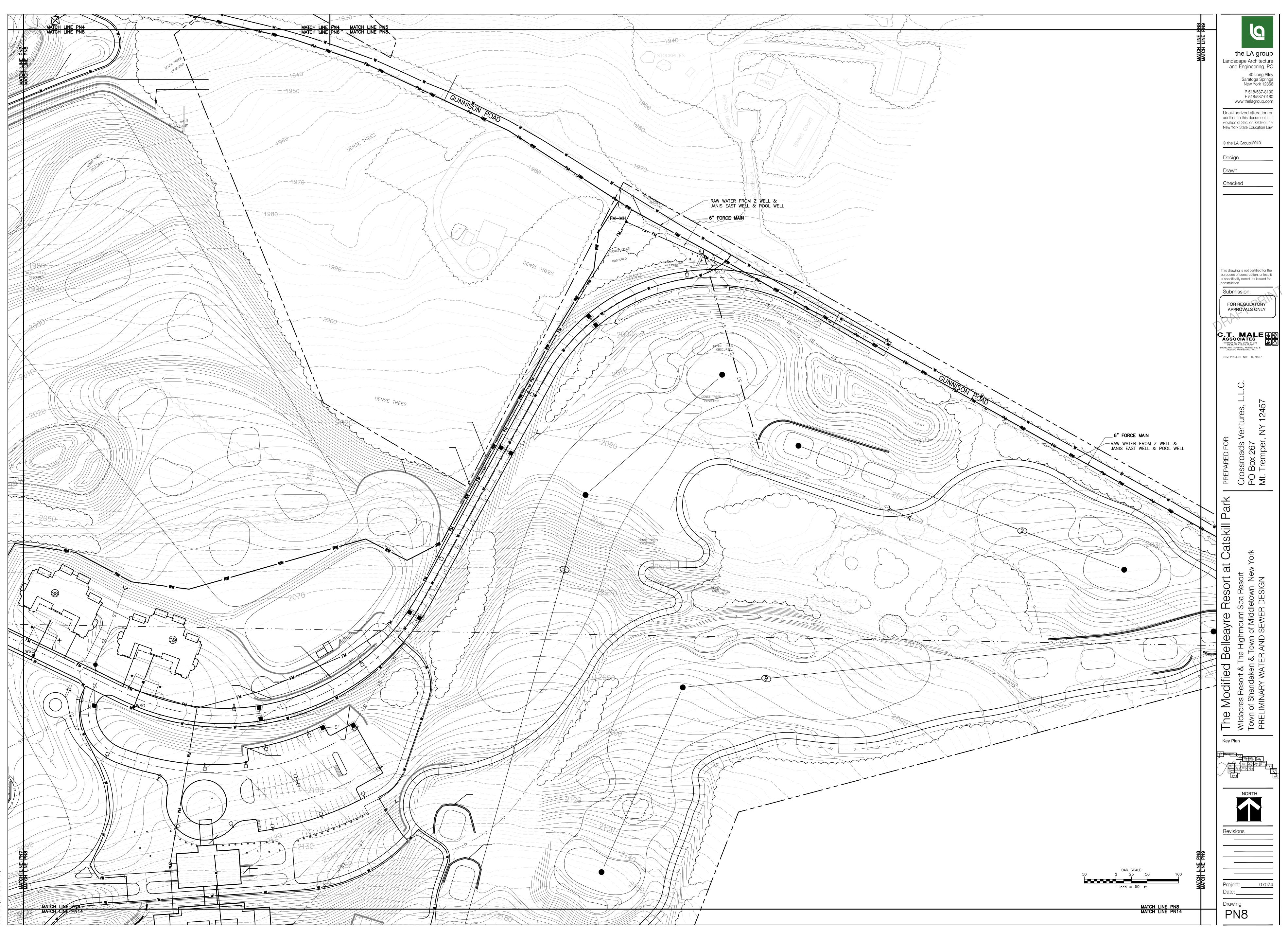
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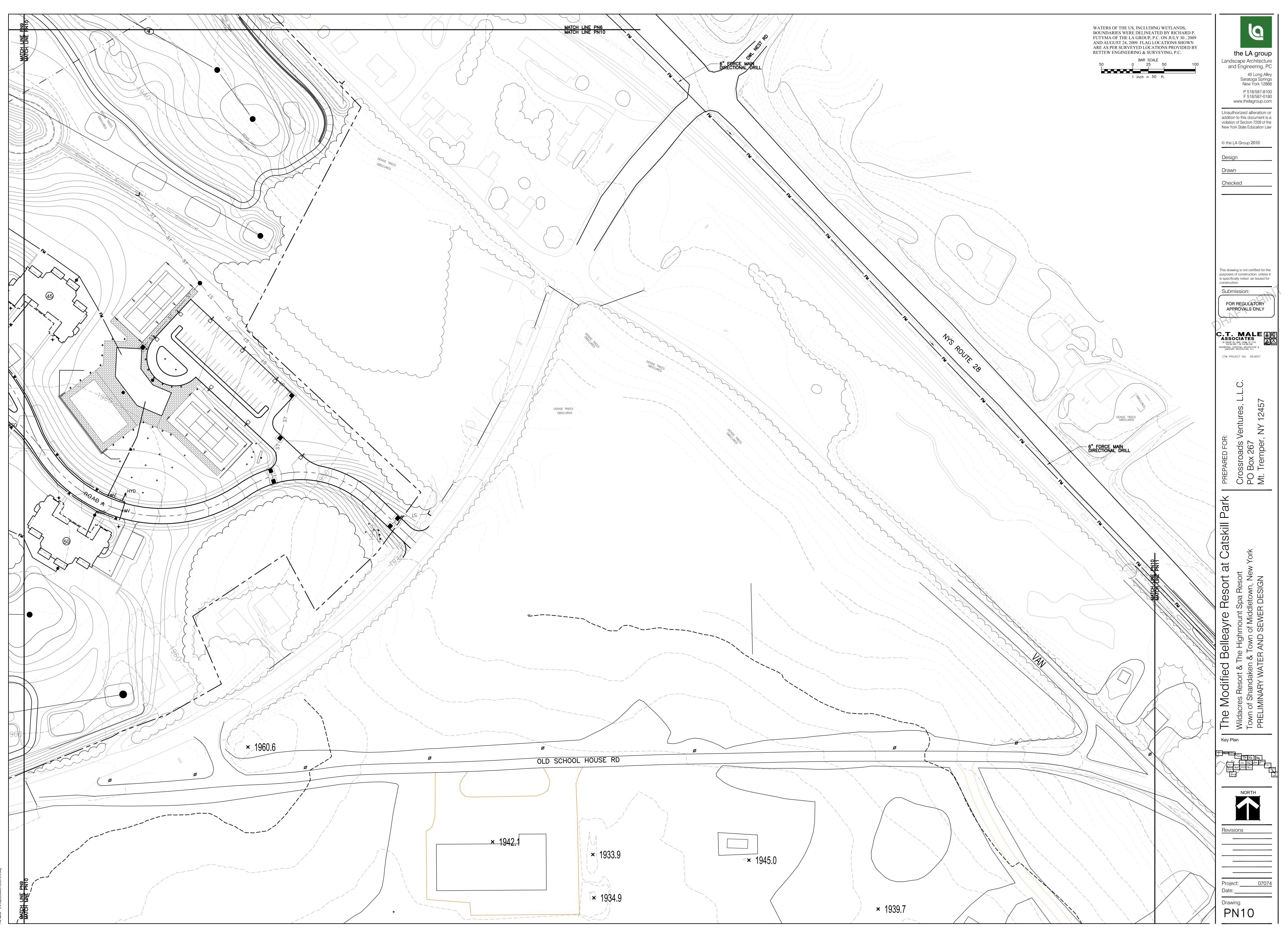
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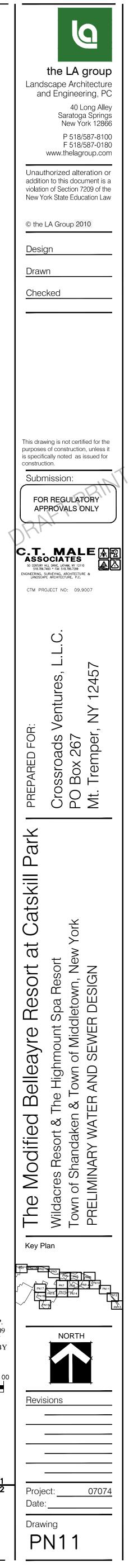
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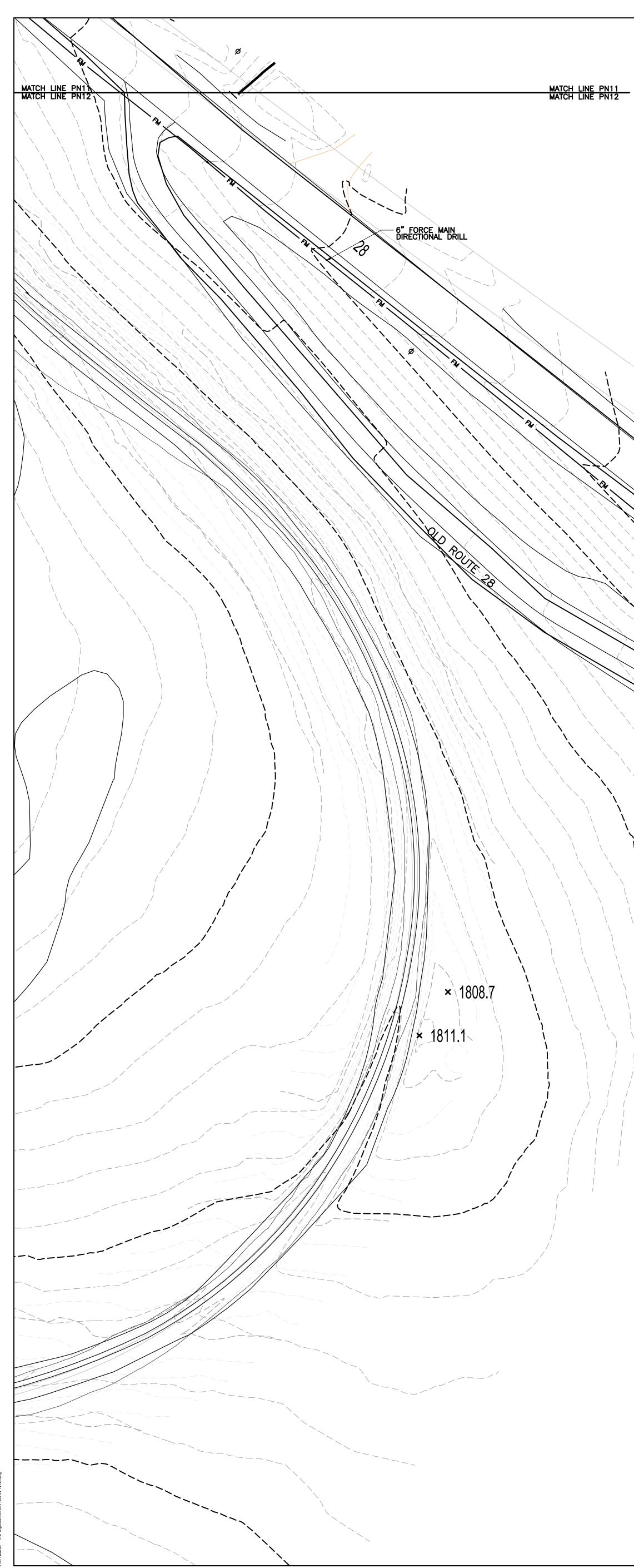
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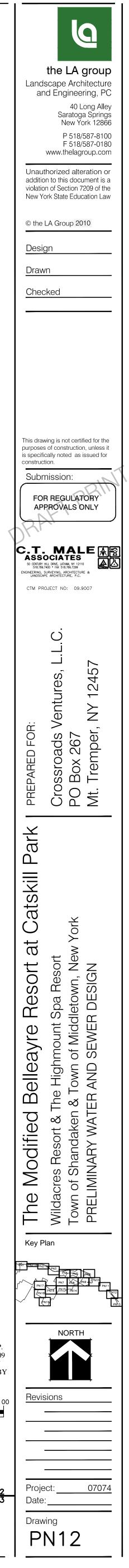
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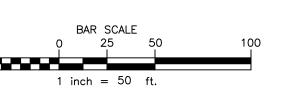
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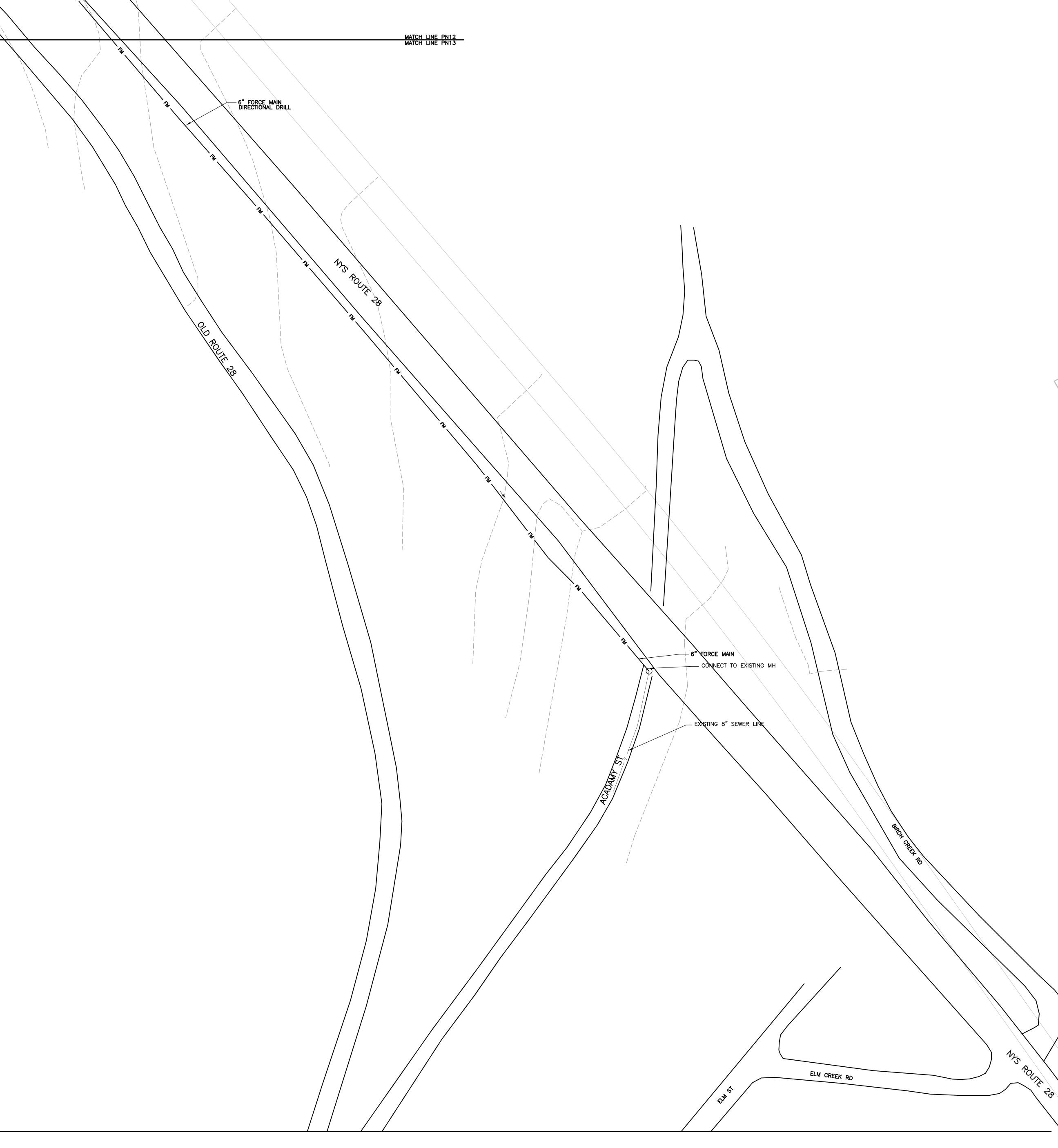
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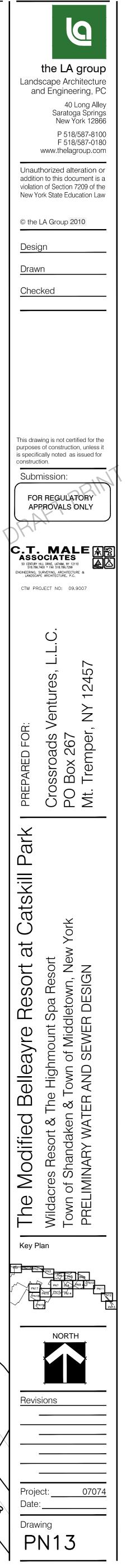


MATCH LINE PN12 MATCH LINE PN13

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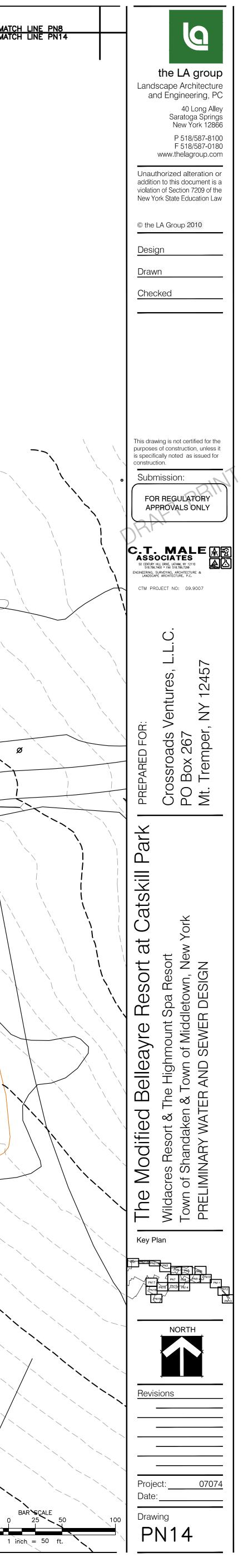


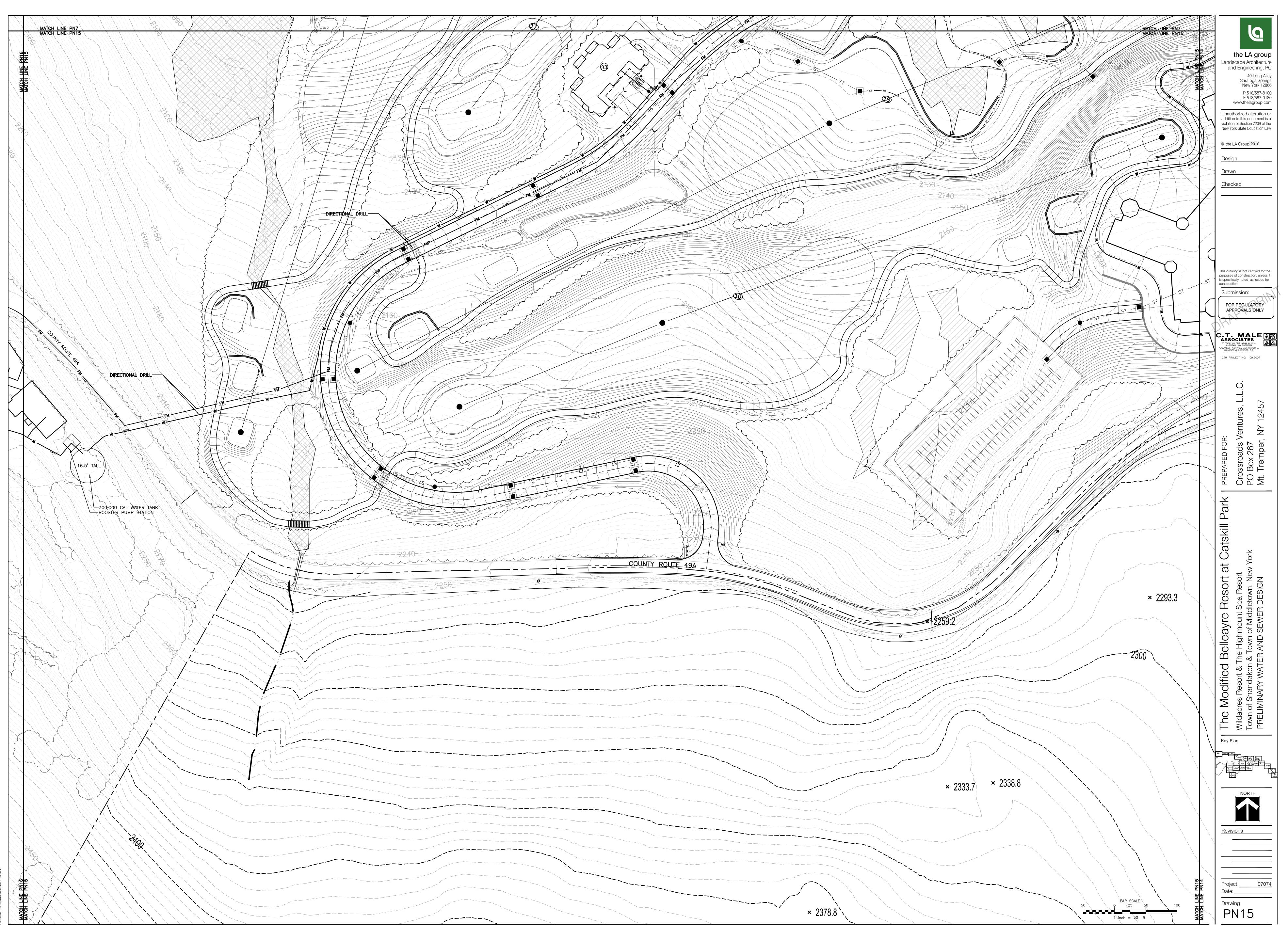


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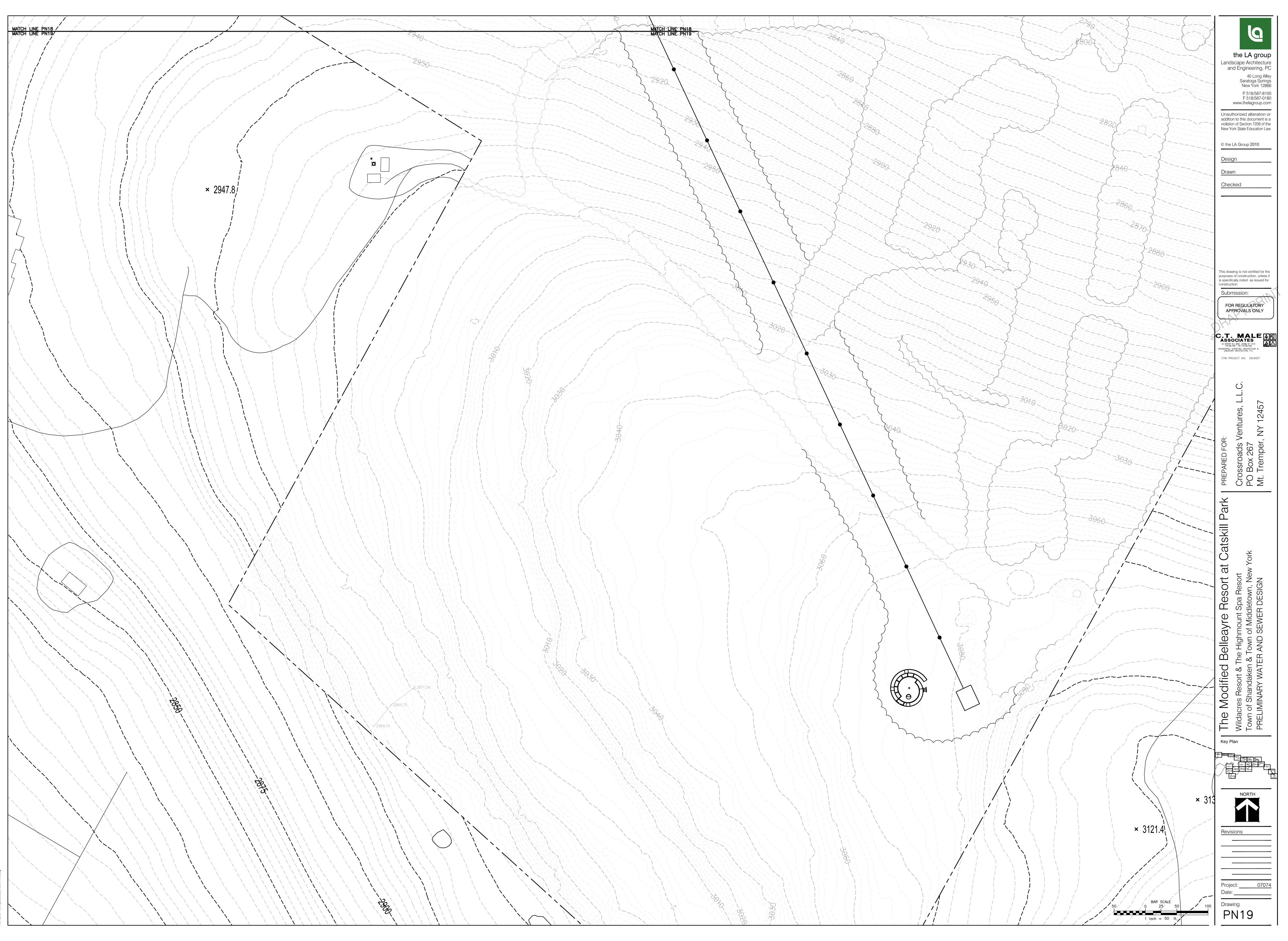
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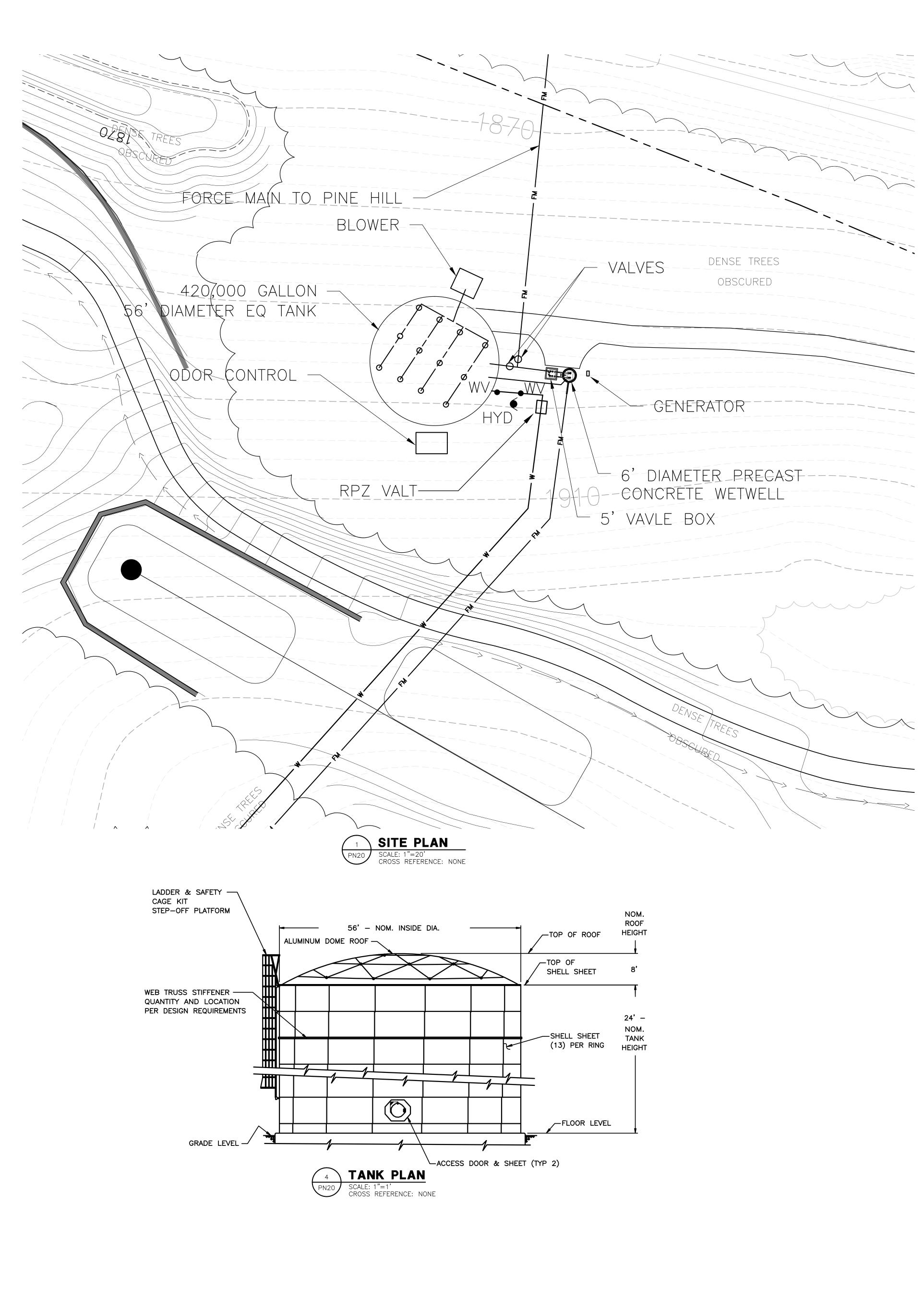


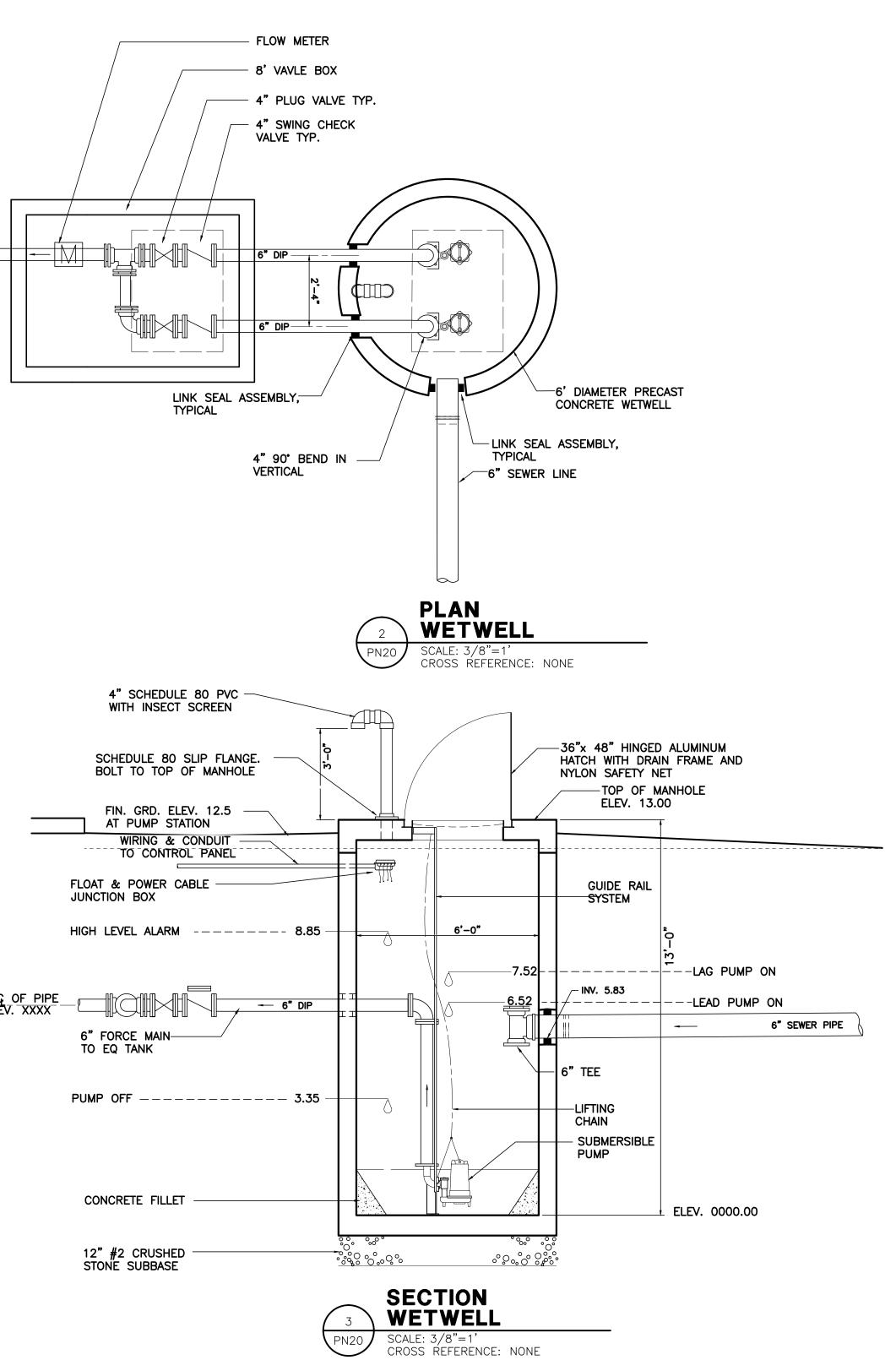
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<u>Ç</u>OF PIPE ELEV. XXXX

0 the LA group Landscape Architecture and Engineering, PC 40 Long Alley Saratoga Springs New York 12866 P 518/587-8100 F 518/587-0180 www.thelagroup.com Unauthorized alteration or addition to this document is a violation of Section 7209 of the New York State Education Law © the LA Group 2010 Design Drawn Checked This drawing is not certified for the purposes of construction, unless it is specifically noted as issued for construction. Submission: FOR REGULATORY APPROVALS ONLY C.T.T. MALE ASSOCIATES 50 CENTURY HILL DRVE, LATHAM, MY 12110 518.786.7400 * FAX 518.786.7299 ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, P.C. CTM PROJECT NO: 09.9007 Ö _ \sim 45 12 Z Ve RED FOR: Crossroads \ PO Box 267 Mt. Tremper, ark atskill \cup at The Modified Belleayre Resort Wildacres Resort & The Highmount Spa Resort Town of Shandaken & Town of Middletown, Ne PRELIMINARY WATER AND SEWER DESIGN Key Plan NORTH Project: 07074 Date: Drawing PN20

C.T. MALE ASSOCIATES, P.C.

APPENDIX D

Agreement in Principle, Exhibit H

EXHIBIT H

NYCDEP expects to enter into separate agreements with Crossroads and with NYSDEC to accept the wastewater generated by the project at its Pine Hill Wastewater Treatment Plant (WWTP) and the Bellearye Mountain Ski Center. Set forth below are: (A) the expected terms of such agreements; (B) conditions that must be resolved prior to the NYCDEP's entering into the agreements; and (C) a draft letter associated with one of the conditions set forth in Section (B).

A. ANTICIPATED TERMS FOR AGREEMENTS UNDER WHICH NYCDEP WILL ACCEPT WASTEWATER AT THE WWTP.

Terms for Agreement with Crossroads

1) Limitations on Connections to the WWTP

- a) The right to connect to the sewer line is limited to the structures designated in the drawings depicting the layout for the modified project plan/lower impact alternative proposal, Exhibits A and C, as they may be adjusted and designed in accordance with this Agreement in Principle.
- b) The flow from the Crossroads Project is limited to a monthly average daily flow 195,000 gpd.
- 2) Financial Arrangements
 - a) Sewerage Fees:
 - i) The annual sewerage fee for the Crossroads Ventures Project will be the actual average daily flow rates from the Project, calculated on an annual average basis, multiplied by \$1.43 per gallon per day (the "per gallon day rate").
 - ii) Crossroads' payment for sewerage fees for the period beginning when the Crossroads collection system is connected to the Pine Hill collection system and declared functional and ending on the following December 31 ("Initial Payment Period") will be pro-rated, calculated by multiplying (a) the total actual flow during the Initial Payment Period divided by the number of days in the Initial Payment Period, multiplied by (b) \$1.43 per gallon per day multipled by the number of days in the Initial Payment Period and divided by 365.
 - iii) Payment will be due no later than January 31 of each year after the commencement of the Initial Payment Period, and must be accompanied by documentation of the actual flows during the the Initial Payment Period or previous calendar year, as the case may be, and the calculations used to

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determine the amount of payment.

- iv) The per gallon per day rate beginning with the fourth year after connection shall be adjusted annually to reflect the rate of inflation or deflation, based on a rolling three-year average of the previous three years' Consumer Price Index or its successor.
- b) Capital Costs: Crossroads is solely responsible for the entire capital cost of designing, constructing and installing the pump station(s), pipeline and other facilities needed to make the connection from Crossroads to the WWTP, including without limitation the costs of any easements across third party property, the costs of excavation, and the costs of restoring or repairing any public roads or rights of way. If any Pine Hill collection system existing infrastructure is used and as a result needs to be modified or expanded, Crossroads Ventures will be responsible for the costs thereof.
- c) Ownership/O&M: With the exception of the equalization tank discussed below, the pump station(s), pipeline and other facilities associated with the connection will be the property of Crossroads (and its successors) and Crossroads (and its successors) will be responsible for all costs of operation, maintenance, and future repair or replacement as necessary of those facilities, and compliance with any applicable permits.
- d) Flow Equalization and Inflow/Infiltration:
 - i) Crossroads will bear the costs of engineering and construction of an equalization tank, the purpose of which is to ensure that the Crossroads project will not exacerbate flows to the Pine Hill WWTP during wet weather periods when the existing Pine Hill collection system is subject to excessive I&I. As such, the equalization tank will be designed to accommodate two days Crossroads Project permitted flow (195,000 gpd x 2 days = 390,000 gallons) plus potential infiltration into the Crossroads collection system and the sewer line from Crossroads to the WWTP equating to 100 gallons per inch of pipe diameter per mile per day (9 L/mm of pipe diameter kmd per Ten States Standards Section 33.94).
 - ii) Crossroads' obligation is for the design and construction of an equalization basin, designed in accordance with Ten States Standards Chapter 65 (Flow Equalization), at the WWTP site (with the understanding that, if such design is used solely for determining the amount of a financial contribution from Crossroads, the design need not accommodate any site-specific conditions or limitations at the WWTP site that would increase the cost of the tank). Such a tank would be the property of NYCDEP, which would operate and maintain it.
 - iii) In the event the City elects to build an equalization tank to equalize flows from the Crossroads Project as well as from the existing Pine Hill collection

\$ 400,000 GALLONS 6 4 8 100 = 4(800 system at the Pine Hill WWTP, Crossroads may satisfy this condition by paying the City an amount equal to the cost for Crossroads to design and construct the equalization tank described herein. Crossroads will prepare engineering plans in sufficient detail for a conceptual regulatory review and to generate an engineering and construction cost estimate and that estimate will be used to determine the cost of this obligation.

- 3) Operation and Maintenance: NYCDEP shall have the right, upon reasonable notice, to inspect all pipe lines, pump stations, grease traps, and other appurtenances to the sewer connections to the Crossroads Project.
- 4) Agreement Is Not Precedent: The agreement between NYCDEP and Crossroads is not intended, nor can it be relied upon, to create any rights enforceable by any person or entity, whether or not a party to such agreement, in any request for connection, application, adjudication, litigation or other proceeding with the NYCDEP. The agreement does not constitute a change or interpretation of any policies, guidance, or requirements of NYCDEP with regard to out-of-district connections to Pine Hill or any other NYCDEP-owned WWTP in the watershed.

Terms for Agreement with NYSDEC

- 1) Limitations on Connection to the WWTP: The flow to the WWTP from the Belleayre Mountain Ski Center, including both flows from existing structures served by the WWTP and from structures to be connected to the WWTP in the future, is limited to 60,000 gpd.
- 2) Financial Arrangements
 - a) Capital Costs: NYSDEC is solely responsible for the entire capital cost of designing, constructing and installing the pump station(s), pipeline and other facilities needed to make any new connections from the Belleayre Mountain Ski Center to the WWTP, including without limitation the costs of improving or expanding existing sewer lines to accommodate the additional flow, the costs of any easements across third party property, the costs of excavation, and the costs of restoring or repairing any public roads or rights of way.
 - b) Ownership/O&M: With the exception of the equalization tank discussed below, the pump station(s), pipeline and other facilities associated with the connection to the Belleayre Mountain Ski Center will be the property of NYSDEC and NYSDEC will be responsible for all costs of operation, maintenance, and future repair or replacement as necessary of those facilities, and compliance with any applicable permits.
 - c) Flow Equalization and Inflow/Infiltration:

- NYSDEC will bear the costs of engineering and construction of an equalization tank, the purpose of which is to ensure that the wastewater flows from any expansion of the Belleayre Mountain Ski Center that may be approved and implemented ("Expansion") will not exacerbate flows to the Pine Hill WWTP during wet weather periods when the existing Pine Hill collection system is subject to excessive I&I. As such, the equalization tank will be designed to accommodate the expected peak daily flow of 180,000 gallons from the Expansion plus potential infiltration into the collection system equating to 100 gallons per inch of pipe diameter per day (9 L/mm of pipe diameter kmd per Ten States Standards Section 33.94).
- NYSDEC's obligation is for the design and construction of an equalization basin, designed in accordance with Ten States Standards Chapter 65 (Flow Equalization), at the WWTP site (with the understanding that, if such design is used solely for determining the amount of a financial contribution from NYSDEC, the design need not accommodate any site-specific conditions or limitations at the WWTP site that would increase the cost of the tank). Such a tank would be the property of NYCDEP, which would operate and maintain it.
- iii) In the event the City elects to build an equalization tank to equalize flows from the Expansion as well as from the existing Pine Hill collection system at the Pine Hill WWTP, NYSDEC may satisfy this condition by paying the City an amount equal to the cost for NYSDEC to design and construct the equalization tank described herein. NYSDEC will prepare engineering plans in sufficient detail for a conceptual regulatory review and to generate an engineering and construction cost estimate and that estimate will be used to determine the cost of this obligation.
- 3) Operation and Maintenance: NYCDEP shall have the right, upon reasonable notice, to inspect all pipe lines, pump stations, grease traps, and other appurtenances to the sewer connections to the the Belleayre Mountain Ski Center.
- 4) Agreement Is Not Precedent: The agreement between NYCDEP and NYSDEC is not intended, nor can it be relied upon, to create any rights enforceable by any person or entity, whether or not a party to such agreement, in any request for connection, application, adjudication, litigation or other proceeding with the NYCDEP. The agreement does not constitute a change or interpretation of any policies, guidance, or requirements of NYCDEP with regard to out-of-district connections to Pine Hill or any other NYCDEP-owned WWTP in the watershed.

B. CONDITIONS THAT MUST BE MET BEFORE NYCDEP WILL ENTER INTO THE AGREEMENTS DESCRIBED ABOVE.

1) Sewer Use Regulations: The Crossroads sewerage systems will be privately constructed, owned and operated. As such, a Transportation Corporation will be formed for the purpose of ownership of sewerage infrastructure and related assets and

the Transportation Corporation will be the permittee on any required SPDES permit for the collection system. Crossroads may not connect the Project to the Pine Hill WWTP unless and until the Town of Shandaken consents to incorporation of the Transportation Corporation and such consent includes Sewer Use Regulations specific to the Project at least as stringent as the DEC Model Sewer Use Ordinance and that grants authority to DEP to enforce the terms and conditions of the regulations, in the event the Town fails or refuses to enforce such provisions.

2) Crossroads will use best efforts to secure commitments, in substantially the form of the letter set forth below as Section (C), from the Coalition of Watershed Towns, and Delaware and Ulster Counties, that they will not seek to introduce this agreement as precedent for any other out-of-district connections to Pine Hill or any other NYC WWTP in the watershed.

C. DRAFT NO-PRECEDENT LETTER.

[date]

New York City Department of Environmental Protection 59-17 Junction Boulevard, 19th Floor Flushing, New York 11373 Attention:

> Re: City of New York (City) / New York City Department of Environmental Protection (DEP) / Crossroads Project / Connection to Pine Hill Wastewater Treatment Plant

Dear Sirs:

We understand that the City, along with other interested parties, has been engaged in discussions chaired by the Office of the Governor on the future of the proposed Belleayre Resort at Catskill Park project, also known as "Crossroads" (Project). We further understand that the purpose of these discussions is to determine whether agreement can be reached on modifications to the Project which will eliminate certain objections raised during the environmental review of the Project and the NYSDEC issues conference associated with draft permits prepared for the Project.

We have been advised by the developer of Project, Crossroads Ventures LLC, that one of the items it seeks, in consideration of making certain modifications to the Project, is the granting of permission by the City for the Project to be connected to the City-owned, DEP-operated Pine Hill Wastewater Treatment Plant (Pine Hill WWTP), so that sanitary sewage from the Project would be treated and discharged at that facility.

We have been further advised by the developer that the Project property lies completely outside of the boundaries of the former Village of Pine Hill, which constitute the boundaries of the service area set out in the August 1925 Agreement between the City and such former Village, pertaining to the construction of the Pine Hill WWTP.

This letter will confirm our agreement as follows:

- 1. We understand that the City views the Project property as "out of district" and therefore not entitled to connect to the Pine Hill WWTP except in the City's discretion and with its prior consent. We further understand that the City takes a similar position with regards to its other wastewater treatment plants (WWTPs) in the New York City Watershed; namely, that property owners outside of the district or service area set out in the agreement calling for construction of the subject WWTP are not entitled to connect to such WWTP except in the City's discretion and with its prior consent. We do not agree with the City's position on this issue and this letter should not be construed as signifying our agreement with, or waiving any objection which we have or might assert with respect to, that position.
- 2. Notwithstanding Paragraph 1 above, in order to help facilitate an agreement of the parties with respect to the future of the Project, and to induce the City to consent to a connection from the Project to the Pine Hill WWTP, we agree as follows:

If the City consents to such a connection from the Project to the Pine Hill WWTP, we (i) acknowledge that such consent is given within the context of an overall settlement of certain outstanding issues pertaining to the Project and not as a concession or admission by the City that the Project has any right to such a connection; and (ii) agree that the granting of such consent shall not in any way constitute a binding precedent on the City in connection with any other property owner who seeks a connection to a City-owned WWTP. In furtherance of clause (ii) of the preceding sentence, we agree not to assert, in any claim, controversy, action or proceeding involving any other property owner who seeks to connect to a City-owned WWTP, but who is deemed to be "out of district" by the City and therefore ineligible for a connection, that the City has waived its above-stated position regarding "out of district" connections by virtue of having consented to a connection from the Project to the Pine Hill WWTP.

The undersigned represent and warrant that this letter has been duly authorized by their respective governing bodies and executed by their duly authorized representatives.

Yours truly,

C.T. MALE ASSOCIATES, P.C.

APPENDIX E

Pine Hill Waste Water Plant

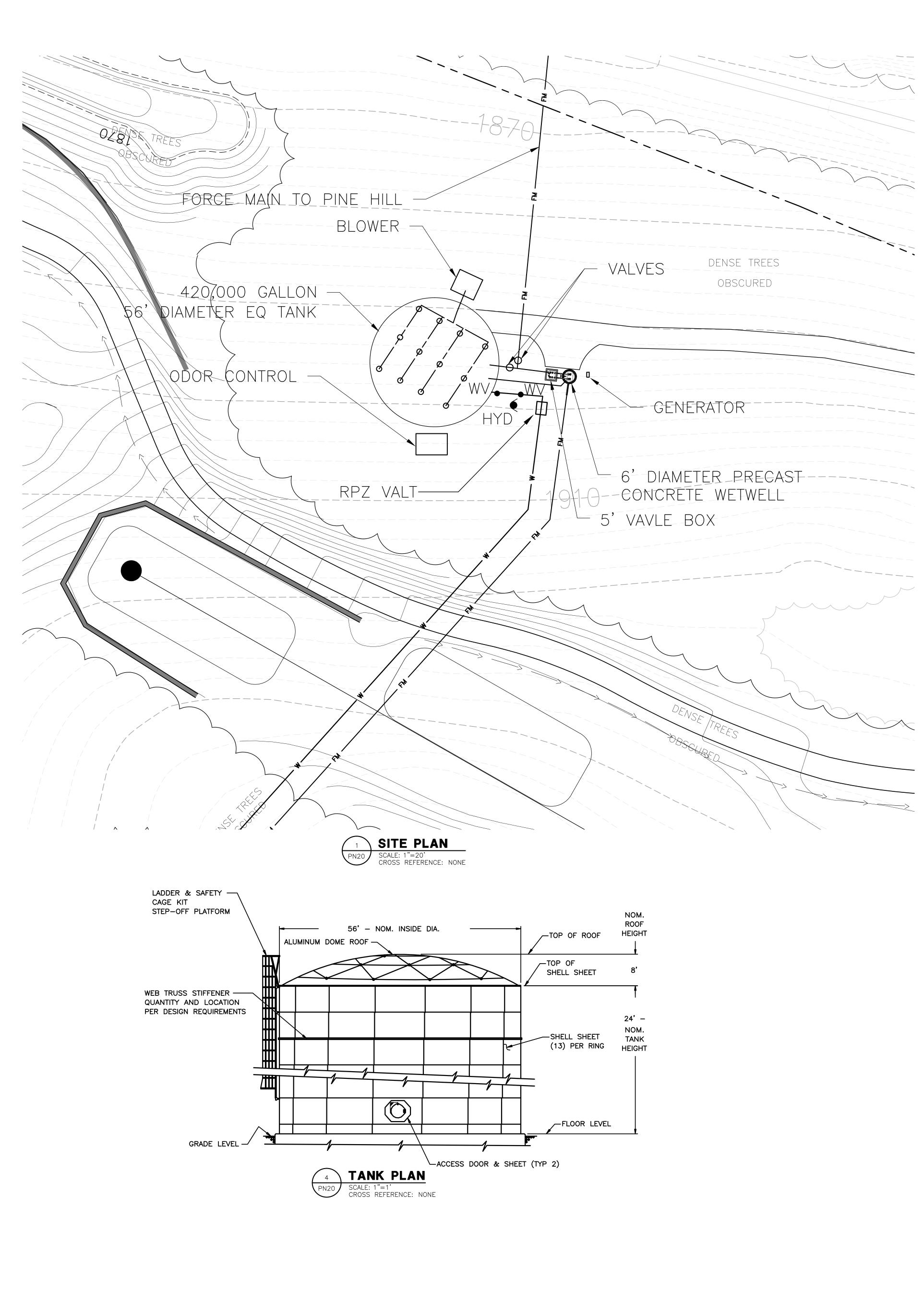
Equalization Tank Upgrades

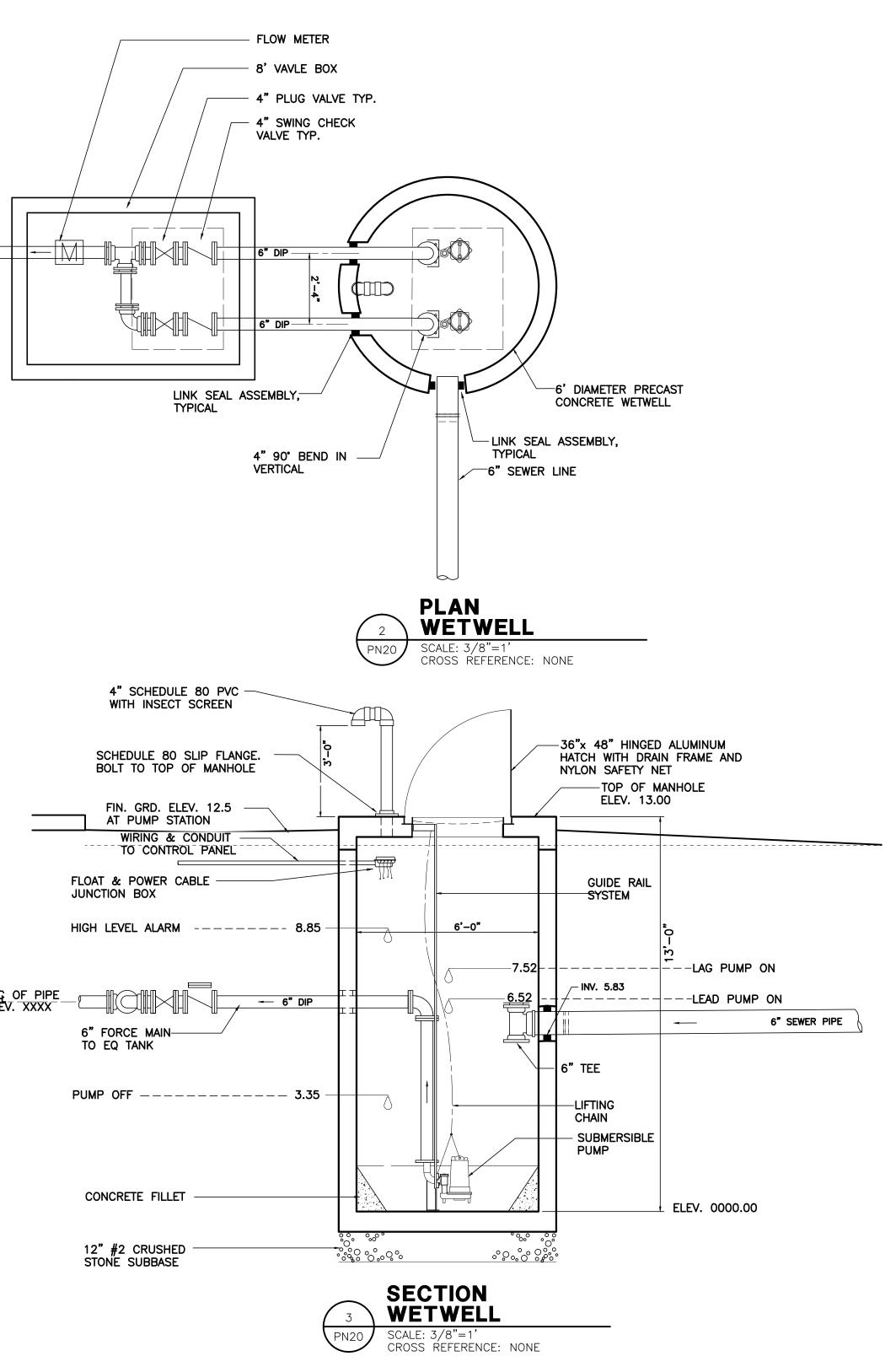
C.T. MALE ASSOCIATES, P.C.

APPENDIX E

Pine Hill Waste Water Plant

Equalization Tank Upgrades





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0 the LA group Landscape Architecture and Engineering, PC 40 Long Alley Saratoga Springs New York 12866 P 518/587-8100 F 518/587-0180 www.thelagroup.com Unauthorized alteration or addition to this document is a violation of Section 7209 of the New York State Education Law © the LA Group 2010 Design Drawn Checked This drawing is not certified for the purposes of construction, unless it is specifically noted as issued for construction. Submission: FOR REGULATORY APPROVALS ONLY C.T. MALE ASSOCIATES 50 CENTURY HIL DRIVE, LATIHAN, MY 12110 518/786/7400 + FAX 518/786/7299 ENGINEERING, SURVEYING, ARCHITECTURE & LANDSCAPE ARCHITECTURE, P.C. CTM PROJECT NO: 09.9007 Ö ____ \sim 45 1 7 7 Z Ve RED FOR: Crossroads V PO Box 267 Mt. Tremper, Щ ark Ω atskill \bigcirc at The Modified Belleayre Resort a Wildacres Resort & The Highmount Spa Resort Town of Shandaken & Town of Middletown, New PRELIMINARY WATER AND SEWER DESIGN Key Plan NORTH Project: 07074 Date: Drawing PN20