

November 20, 2014



## Visual Impact Analysis

**FINGER LAKES LPG STORAGE, LLC  
EAST BRINE POND  
LPG TRANSFER FACILITY  
AND WEST BRINE POND  
Town of Reading  
Schuyler County, New York**

*Prepared by:*  
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*C.T. Male Associates Project No: 08.8696*

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November 20, 2014

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RE: *Visual Impact Assessment*  
*Inergy Midstream LLC / Finger Lakes LPG Storage LLC*  
*Watkins Glen Liquefied Petroleum Gas Storage Facility*  
*Town of Reading, Schuyler County, New York*  
*Revision to Visual Impact Assessment dated February 21, 2011*  
*C.T. Male Project No. 08.8696*

Dear Kevin:

C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. (C.T. Male Associates) has conducted a revised Visual Impact Assessment for the proposed Liquefied Petroleum Gas (LPG) Storage Facility within the Town of Reading, Schuyler County, New York (refer to Attachment A, Site Operations Plan). This Visual Impact Assessment (“VIA”) revises and supplements the prior VIA submitted with the Draft Supplemental Environmental Impact Statement accepted by the New York State Department of Environmental Conservation (“NYSDEC”) in 2011, and reflects the fact that the Project now consists of two smaller brine ponds rather than the one originally proposed, as reflected in the final engineer’s report and design drawings submitted to the NYSDEC in September 2012. The Visual Impact Assessment has been conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC) Program Policy DEP-00-2 entitled “Assessing and Mitigating Visual Impacts” as required by Section 4.5 of the Finger Lakes LPG Storage, LLC Final Scope dated February 15, 2011, entitled “Impacts on Aesthetic Resources.”

## **Assessment of Visual Impacts**

### *Environmental Setting – Proposed Brine Pond Sites and LPG Transfer Facility*

Two (2) brine pond sites are being proposed. The proposed West Brine Pond site is located approximately 2,000 feet west of New York State Route 14. The site is primarily an undeveloped, forested parcel, predominantly vegetated with deciduous and coniferous species; however the northern portion of the West Brine Pond site is comprised of a cleared, successional field. The West Brine Pond site is situated at an elevation of approximately 1,020 feet above mean sea level (MSL). The West Brine Pond site is situated approximately 570 feet in elevation above the western shore of Seneca Lake. The West Brine Pond site is bordered by New York State Route 14/14A, a truck repair facility and the Casella Waste Management parcel to the north, forested areas to the south and east and the Norfolk Southern Railroad to the west.

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Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 2*

The proposed East Brine Pond site is located along the easterly side of New York State Route 14. The site is primarily an undeveloped, predominantly fallow field. The East Brine Pond site is situated at an elevation of approximately 840 feet above mean sea level (MSL). The East Brine Pond site is situated approximately 400 feet in elevation above the western shore of Seneca Lake. The East Brine Pond site is bordered by New York State Route 14 to the west, forested area to the south, an existing brine pond (owned and operated by US Salt since the early 1970's) to the east and an open area to the north.

The proposed LPG Transfer Facility site is located approximately 200 feet south of New York State Route 14A and approximately 1,000 feet north of the proposed West Brine Pond site. The transfer facility site is presently an undeveloped, scrub-shrub field. The transfer facility site is situated at an elevation of approximately 1,020 feet above MSL. The transfer facility site is bordered by New York State Route 14A and agricultural fields to the north, a railroad to the west, a truck facility to the east and forested areas to the south (refer to Attachment A, Site Operations Plan).

## *Potential Visual Impact*

In accordance with NYSDEC Program Policy DEP-00-2, important aesthetic resources in the vicinity of both the Brine Pond sites and the LPG Transfer Facility were inventoried to determine whether or not the proposed project may have a significant adverse visual impact to these sensitive resources. The inventory of important aesthetic resources and an assessment of potential significant adverse visual impact to these important resources are included below:

### **1. A property on or eligible for inclusion in the National or State Register of Historic Places.**

- There are no known properties on or eligible for inclusion in the National or State Register of Historic Places in the immediate vicinity of the project sites. Within a five (5) mile radius of the project sites, there are five (5) National Register properties mapped by the NYS Historic Preservation Office (SHPO) through SHPO's Online Geographic Information System (GIS) database; the Watkins Glen Grand Prix Course, the A.F. Chapman House, the first Baptist Church of Watkins Glen, the Watkins Glen U.S. Post Office and the Schuyler County Courthouse Complex. All five (5) properties are located in the Village of Watkins Glen, approximately three (3) linear miles southeast of the project site. No State Register properties are mapped by SHPO within a five (5) mile radius from the project sites. Due to the distance, vegetation, topography and number of buildings between the project sites and the National Register listed properties, it is not anticipated that the proposed project will have any visual impact upon properties on or eligible for inclusion on the National or State Register of Historic Places.

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*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 3*

## **2. State Parks**

- According to the SHPO Online GIS database, there are no State Parks mapped within the immediate vicinity of the project sites. Within a five (5) mile radius of the project sites, there is one (1) mapped State Park; Watkins Glen State Park. Due to the distance, vegetation, topography and number of buildings between the project sites and the Watkins Glen State Park, it is not anticipated that the proposed project will have any visual impact upon State Parks.

## **3. Urban Cultural Parks (now named Heritage Area System)**

- According to the New York State Heritage Area Online Database there are no Heritage Areas within five (5) miles of the project sites. The nearest Heritage Area is the Seneca Falls Heritage Area, located approximately thirty-four (34) miles northeast of the project sites. As such, the proposed project will not have any visual impact on Heritage Areas.

## **4. State Forest Preserve Land**

- The project sites are not located within or near the Adirondack or Catskill Parks, and as such, are not located in proximity to any State Forest Preserve Land. As such, the proposed project will not have any visual impact on State Forest Preserve Land.

## **5. National Wildlife Refuges, State Game Refuges and State Wildlife Management Areas**

- According to mapping from the United States Fish & Wildlife Service (USFWS – <http://www.fws.gov/refuges/refugelocatomaps/NewYork.html>) and the NYSDEC Database for State Recreational Lands, there are no mapped National Wildlife Refuges or State Game Refuges within five (5) miles of the project sites. There is one (1) mapped State Wildlife Management Area, the Catherine Creek Wildlife Management Area, located approximately 3.6 miles southeast of the project sites, near the Village of Watkins Glen. Due to the distance, vegetation, topography and number of buildings between the project sites and the Catherine Creek State Wildlife Management Area, it is not anticipated that the proposed project will have any visual impact upon State Wildlife Management Areas, National Wildlife Refuges or State Game Refuges.

## **6. National Natural Landmarks**

- According to the United States National Park Service National Natural Landmark Database for New York State (<http://www.nature.nps.gov/nnl>), no National Natural Landmarks are mapped within five (5) miles of the project sites. As such, the proposed project will not have any visual impact on National Natural Landmarks.

## **7. National Parks, Recreation Areas, Seashores & Forests**

- According to United States National Park Service Database for New York State (<http://www.nps.gov/state/NY/index.htm>), there are no National Parks, Recreation Areas or Seashores within five (5) miles of the project sites. One (1) national forest, the Finger Lakes National Forest, is mapped approximately 2.5 miles northwest of the

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Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 4*

project sites. Due to the distance, vegetation and topography between the project sites and the Finger Lakes National Forest, it is not anticipated that the proposed project will have any visual impact upon the National Parks, Recreation Areas, Seashores & Forests.

## **8. National/State Designated Wild, Scenic or Recreational Rivers**

- According to National Wild, Scenic and Recreational River System mapping for New York State (<http://www.rivers.gov/maps/zoom/conus/conus.html>), no National Wild, Scenic and Recreational Rivers are mapped within five (5) miles of the project sites. According to the NYSDEC list of State Wild, Scenic and Recreational Rivers (<http://www.dec.ny.gov/lands/32739.html>), no State Wild, Scenic or Recreational Rivers are mapped within five (5) miles of the project sites. As such, the proposed project will not have any visual impact on National/State Wild, Scenic and Recreational Rivers.

## **9. State Designated Scenic Site, Area, Lake, Reservoir or Highway**

- According to U.S. Department of Transportation Scenic Site List for New York State (<https://www.dot.ny.gov/display/programs/scenic-byways/lists>), The Seneca Lake Scenic Byway exists for a 19 mile portion of NYS Route 414 from Lodi to Watkins Glen on the east side of Seneca Lake. There are no other designated scenic sites, areas, reservoirs, highways or byways mapped within five (5) miles of the project sites. Seneca Lake is considered to be a scenic lake, and portions of the proposed brine pond sites may be visible from Seneca Lake.

## **10. Scenic Areas of Statewide Significance**

- According to the New York State Department of State Scenic Areas of Statewide Significance Program (2004), no Scenic Areas of Statewide Significance are located within five (5) miles of the project sites. As such, the proposed project will not have any visual impact on State Scenic Areas of Statewide Significance.

## **11. Adirondack Park Scenic Vistas**

- The project site is not located within or near the Adirondack Park. As such, the proposed project will not have any visual impact on Adirondack Park Scenic Vistas.

## **12. State Nature and Historic Preserve Areas**

- According to Article 45-0117 of the New York State Environmental Conservation Law, no State or Natural Preserve Areas are designated in the vicinity of the project sites. As such, the proposed project will not have any visual impact on State or Natural Preserve Areas.

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 5*

### **13. Palisades Park**

- The Palisades Park is located approximately 185 miles southeast of the project sites. As such, the proposed project will not have any visual impact on the Palisades Park.

### **14. Bond Act Properties**

- According to the NYSDEC Environmental Facilities Mapper (<http://www.dec.ny.gov/imsmaps/facilities/viewer.htm>), no Bond Act Properties are mapped within five (5) miles of the proposed project site.

Through the inventory and analysis of potentially sensitive resources, three (3) receptor point camera locations were chosen for additional assessment of potential visual impacts along New York State Route 414. Three (3) line of sight profiles were prepared showing the West and East Brine Pond sites and two (2) line of sight profiles were prepared showing the Truck Transfer site in relation to each of the three (3) receptor point camera locations (refer to Attachment B, View Analysis Profile View). Three (3) line of sight profiles were also prepared showing the West and East Brine Pond sites and the Truck Transfer site in relation to the approximate center of Seneca Lake. The East Brine Pond site is situated between New York State Route 14/14A and Seneca Lake and the West Brine Pond site is situated between the Norfolk Southern Railroad and Seneca Lake, and as such have the potential to be visible from all three (3) features. Tree heights in the vicinity of both the project site and each receptor site were determined to be approximately 50 feet tall. Trees of this height were added to each line of sight profile to illustrate trees present within each alignment. Photographs were taken from each receptor point camera location looking toward the Brine Pond sites and LPG Transfer Facility and were added to the View Analysis Plan View (refer to Attachment C). An assessment of each line of sight profile is included below:

#### Alignment A - West Brine Pond

Alignment A of the West Brine Pond provides a line of sight profile from Station 0+00 on the northern portion of New York State Route 414, Camera Point Photo 1, (at an elevation of approximately 700 feet above MSL) west to the proposed West Brine Pond embankment at Station 133+50. The embankment is approximately 1,800 feet west of New York State Route 14 (at an elevation of approximately 1,040 feet above MSL). The proposed brine pond site is shown at Station 138+00<sup>1</sup>. Camera Point Photo 1 Station 0+00 is approximately 2.5 miles east of the proposed brine pond site. Based upon this line of sight profile for Alignment A – West Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed West Brine Pond cleared site and embankment may be visible from New York State Route 414, and the West Brine Pond site will be visible from New York State Route 14A. The brine pond itself will not be visible from New York State Route 414 or New York State Route 14.

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<sup>1</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

## C.T. MALE ASSOCIATES

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*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 6*

### Alignment B - West Brine Pond

Alignment B of the West Brine Pond provides a line of sight profile from Station 0+00 on the middle portion of New York State Route 414, Camera Point Photo 2, (at an elevation of approximately 600 feet above MSL) west to the proposed West Brine Pond embankment at Station 118+70. The embankment is approximately 1,800 feet west of New York State Route 14 (at an elevation of approximately 1,040 feet above MSL). The proposed brine pond site is shown at Station 124+00<sup>2</sup>. Camera Point Photo 2 Station 0+00 is approximately 2.3 miles east of the proposed brine pond site. Based upon this line of sight profile for Alignment B – West Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed West Brine Pond cleared site and embankment may be visible from New York State Route 414, and the West Brine Pond site will be visible from New York State Route 14A. The brine pond itself will not be visible from New York State Route 414 or New York State Route 14.

### Alignment C - West Brine Pond

Alignment C of the West Brine Pond provides a line of sight profile from Station 0+00 on the southern portion of New York State Route 414, Camera Point Photo 3, (at an elevation of approximately 620 feet above MSL) west to the proposed West Brine Pond embankment at Station 123+00. The embankment is approximately 2,000 feet west of New York State Route 14 (at an elevation of approximately 1,040 feet above MSL). The proposed West Brine Pond site is shown at Station 128+00<sup>3</sup>. Camera Point Photo 3 Station 0+00 is approximately 2.4 miles east of the proposed West Brine Pond site. Based upon this line of sight profile for Alignment C – West Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed West Brine Pond cleared site and embankment may be visible from New York State Route 414, and the West Brine Pond site will be visible from New York State Route 14A. The brine pond itself will not be visible from New York State Route 414 or New York State Route 14.

### Alignment D - West Brine Pond

Alignment D of the West Brine Pond provides a line of sight profile from Station 0+00 in the middle of Seneca Lake (at an elevation of approximately 446 feet above MSL) west to the proposed West Brine Pond embankment at Station 81+80. The embankment is approximately 1,850 feet west of New York State Route 14 (at an elevation of approximately 1,040 feet above MSL). The proposed West Brine Pond site is shown at Station 86+00<sup>4</sup>. Based upon this line of sight profile for Alignment D – West Brine Pond, the brine pond itself will not be visible from Seneca Lake.

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<sup>2</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

<sup>3</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

<sup>4</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 7*

### Alignment A - East Brine Pond

Alignment A of the East Brine Pond provides a line of sight profile from Station 0+00 on the northern portion of New York State Route 414 , Camera Point Photo 1, (at an elevation of approximately 700 feet above MSL) west to the proposed East Brine Pond embankment at Station 113+80. The embankment is approximately 650 feet east of New York State Route 14 (at an elevation of approximately 840 feet above MSL). The proposed East Brine Pond site is shown at Station 116+00<sup>5</sup>. Camera Point Photo 1 Station 0+00 is approximately 2.2 miles east of the proposed brine pond site. Based upon this line of sight profile for Alignment A – East Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed East Brine Pond cleared site and embankment may be visible from New York State Route 414, and the East Brine Pond site will be visible from New York State Route 14. The brine pond itself will not be visible from New York State Route 414 or New York State Route 14A.

### Alignment B - East Brine Pond

Alignment B of the East Brine Pond provides a line of sight profile from Station 0+00 on the middle portion of New York State Route 414 , Camera Point Photo 2, (at an elevation of approximately 600 feet above MSL) west to the proposed East Brine Pond embankment at Station 92+70. The embankment is approximately 650 feet east of New York State Route 14 (at an elevation of approximately 840 feet above MSL). The proposed East Brine Pond site is shown at Station 95+50<sup>6</sup>. Camera Point Photo 2 Station 0+00 is approximately 1.8 miles east of the proposed East Brine Pond site. Based upon this line of sight profile for Alignment B – East Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed East Brine Pond cleared site and embankment may be visible from New York State Route 414, and the East Brine Pond site will be visible from New York State Route 14. The brine pond itself will not be visible from New York State Route 414.

### Alignment C - East Brine Pond

Alignment C of the East Brine Pond provides a line of sight profile from Station 0+00 on the southern portion of New York State Route 414 , Camera Point Photo 3, (at an elevation of approximately 620 feet above MSL) west to the proposed East Brine Pond embankment at Station 89+80. The embankment is approximately 650 feet east of New York State Route 14 (at an elevation of approximately 840 feet above MSL). The proposed East Brine Pond site is shown at Station 92+00<sup>7</sup>. Camera Point Photo 3 Station 0+00 is approximately 1.7 miles east of the proposed East Brine Pond site. Based upon this line of sight profile for Alignment C – East Brine Pond, assuming a clear line of sight from New York State Route 414, the proposed East Brine Pond cleared site and embankment may be visible from New York State Route 414, and

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<sup>5</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

<sup>6</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

<sup>7</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 8*

the East Brine Pond site will be visible from New York State Route 14. The brine pond itself will not be visible from New York State Route 414.

## Alignment D - East Brine Pond

Alignment D of the East Brine Pond provides a line of sight profile from Station 0+00 in the middle of Seneca Lake (at an elevation of approximately 446 feet above MSL) west to the proposed East Brine Pond embankment at Station 54+60. The embankment is approximately 650 feet east of New York State Route 14 (at an elevation of approximately 840 feet above MSL). The proposed East Brine Pond site is shown at Station 57+00<sup>8</sup>. Based upon this line of sight profile for Alignment D – East Brine Pond, neither the embankment nor the brine pond itself will be visible from Seneca Lake.

## Alignment A - LPG Transfer Facility

Alignment A of the LPG Transfer Facility provides a line of sight profile from Station 0+00 on the middle portion of New York State Route 414, Camera Point Photo 2, (at an elevation of approximately 600 feet above MSL) west to the proposed LPG Transfer Facility at Station 128+00. The LPG Transfer Facility is approximately 400 feet south of New York State Route 14A (at an elevation of approximately 1,020 feet above MSL). Camera Point Photo 2 Station 0+00 is approximately 2.4 miles east of the proposed LPG Transfer Facility. Based upon this line of sight profile for Alignment A – LPG Transfer Facility, assuming a clear line of sight from New York State Route 414, the proposed LPG Transfer Facility cleared site and facility structures should not be visible from New York State Route 414. The LPG Transfer Facility will be visible from certain portions of New York State Route 14A.

## Alignment B - LPG Transfer Facility

Alignment B of the LPG Transfer Facility provides a line of sight profile from Station 0+00 in the middle of Seneca Lake (at an elevation of approximately 446 feet above MSL) west to the proposed LPG Transfer Facility at Station 90+00. The LPG Transfer Facility is approximately 400 feet south of New York State Route 14A (at an elevation of approximately 1,020 feet above MSL). Based upon this line of sight profile for Alignment B – LPG Transfer Facility, the facility will not be visible from Seneca Lake.

## *Proposed Mitigation Measures or Alternatives*

Based upon the line of sight profiles detailed above, the locations with the greatest potential for visual impacts are New York State Routes 14 and 14A located in close proximity to the proposed brine ponds and transfer facility. There are minimal to no potential visual impacts related to the brine pond sites (including areas cleared of trees, the brine ponds, the brine pond embankments

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<sup>8</sup> Station location used for the brine pond represents the center of the brine pond site for each alignment.

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 9*

and the brine pump enclosures) from Seneca Lake and New York State Route 414, primarily due to elevation and/or distance. Currently, the brine pond sites are comprised of a mixed successional coevtype with both mature coniferous and deciduous species dominant (refer to Attachment D, Brine Pond Site Existing Conditions Photo and Proposed Conditions Visual Simulation). Portions of the East Brine Pond site are currently used for an active industrial salt mining operation, which is currently visible along Seneca Lake and New York State Route 414. The site is proposed to be cleared and graded, followed by the construction of the brine ponds. An approximately 8-foot-tall corrugated metal pump enclosure structure, approximately 150 square feet in area, will be constructed at the base of the brine pond embankment (refer to Attachment A, Site Operations Plan). The pump enclosure structure will be screened from New York State Routes 14 and 14A by the embankment, and will be screened from Seneca Lake and New York State Route 414 (which runs along the eastern side of Seneca Lake) by the existing treed slope between the brine pond site and Seneca Lake. As previously stated, the proposed brine ponds themselves will also not be visible from Seneca Lake or New York State Route 414. The eastern portions of the brine ponds will be supported by embankments. These embankments will efficiently conceal the brine ponds from Seneca Lake and New York State Route 414. The embankments will be seeded with a native seed mix and allowed to germinate with herbaceous species that will further act to “blend” the brine pond embankments into the characteristic natural landscape on the western side of Seneca Lake. Portions of the brine pond sites may be visible from New York State Route 414 during fall and winter months when deciduous trees along the eastern portion of Seneca Lake have no leaves. During spring and summer months when the leaves on deciduous species have grown in, the brine pond sites will likely not be visible from southern portions of New York State Route 414 (Alignment C).

Without mitigation, the proposed brine ponds would be visible from New York State Routes 14 and 14A (refer to Attachment D, Brine Pond Site Existing Conditions Photo and Proposed Conditions Visual Simulation). As the crest of New York State Route 14A sits at an elevation of approximately 870 feet above MSL, traffic along New York State Route 14A will have the ability to look downhill into the brine pond site, where the water surface will be at an elevation of approximately 840 feet above MSL. It is important to note, however, that the New York State Route 14A ramp is primarily used for vehicular traffic, and any vehicles traveling along the ramp would only be afforded a limited, transient view of the brine pond site.

The transfer facility would also be visible from portions of New York State Route 14A (refer to Attachment E, LPG Transfer Facility Site Existing Conditions Photo and Proposed Conditions Visual Simulation). Lighting fixtures are proposed to be installed at the transfer facility (refer to Attachment H, LPG Transfer Facility Lighting Plan). Luminaire type HL1-2 proposed for installation along the rail transfer kiosks in the rear of the facility is International Dark Sky compliant shielded downlighting, with illumination concentrated on the ground directly beneath the fixtures. Luminaire type MS1-1 is proposed to be installed under the transfer facility canopy, with illumination concentrated on the ground directly beneath the fixtures. Potential lateral light spillage from these ceiling mounted fixtures will be minimized by the recessed location of the fixtures up inside the transfer facility canopy. Two (2) luminaire type HL1-1 lighting fixtures

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

Mr. Kevin Bernstein, Esq.

Watkins Glen LPG Storage Facility Visual Impact Assessment

November 20, 2014

Page - 10

are currently proposed for the front of the transfer facility. Luminaire type HL1-1 are pole mounted fixtures that will be installed to provide lighting for the control building entrance and parking area as well as the compressor pad and storage tanks. The majority of the proposed site lighting will be installed behind the transfer control building. While screened from New York State Route 14A by the control building, truck transfer canopy and proposed site plantings, the proposed site lighting to be installed behind the control building has been designed to further mitigate potential off-site impacts related to lighting. Fixtures located in the front of the transfer facility will be screened from potential viewers along New York State Route 14A by the proposed plantings at the transfer site (refer to Attachment G).

In accordance with NYSDEC Program Policy DEP-00-2, mitigation measures for visual impacts were evaluated during site design. Landscaping plans were prepared to illustrate the proposed locations of native mitigation plantings, which will act to visually screen the brine ponds from New York State Routes 14 and 14A and the transfer facility from New York State Route 14A (Refer to Attachment F, Brine Pond Landscaping Plan and Attachment G, LPG Transfer Facility Landscaping Plan, respectively). A total of 216 plantings are proposed to be installed along New York State Routes 14 and 14A at the brine pond sites and 182 plantings will be installed between the transfer facility and New York State Route 14A, and between the transfer facility and the commercial railroad tracks that run along the western edge of the transfer facility project site.

The proposed plantings will include the following species, as illustrated on the attached Landscaping Plan:

- Densa Inkberry (*Ilex glabra 'densa'*) - Broad-leaved evergreen
- Moonglow Pyramidal Blue Juniper (*Juniperus Scopulorum "moonglow"*) Coniferous tree (6' – 7' tall at time of planting)
- White spruce (*Picea Glauca*) – Coniferous tree (6' – 7' tall at time of planting)
- Bakeri spruce (*Picea Pungens "Bakeri"*) – Coniferous tree (6' – 7' tall at time of planting)
- American arborvitae (*Thuja occidentalis*) – Coniferous tree (7' – 8' at time of planting)
- Allegheny Serviceberry (*Amelanchier laevis*) - Deciduous tree with a dense branch structure (7' – 8' at time of planting)
- Shadblow Serviceberry (*Amelanchier Laevis*) Deciduous tree with a dense branch structure (7' – 8' at time of planting)
- Redosier Dogwood (*Cornus Sericea*) - Deciduous tree (3' – 4' at time of planting)
- Arrowwood Viburnum (*Viburnum Dentatum*) – Deciduous (3' – 4' at time of planting)
- Common lilac (*Syringa vulgaris*) Deciduous tree with a dense branch structure (5' to 6' at time of planting)

Any plantings that are found to not have survived the first year after planting will be replaced with a similar item. This follows the industry typical 1 year replacement warranty.

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 11*

Species were selected based on the following criteria:

- Species provides a large, dense canopy as it grows;
- Species is fast growing;
- Species is either an evergreen/coniferous planting or, if deciduous, has a dense branch structure that blocks views of the brine pond during “leaf-out” conditions (October to April); and
- Species is similar or identical to the native vegetation currently growing at the site and/or on adjacent properties.

Planting locations were chosen so as to mitigate potential visual impacts along New York State Route 14 at the brine pond site and New York State Route 14A at both sites to the maximum extent practicable. Visual simulations of proposed conditions at the brine pond sites and the transfer facility site are provided in Attachments D and E, respectively. In the event that the brine ponds are not visually screened in some locations, the sites will resemble a natural pond water feature that will mimic other ponds in the vicinity of the project site. The proposed vegetated embankments will also resemble existing successional fields to the north and south of the brine pond site.

Once plantings have become established as adults, plant heights will range from approximately seven (7) feet in height for species like inkberry to approximately fifty (50) feet in height for species like white spruce. At these heights, the brine ponds and transfer facility sites will be nearly completely screened from drivers along New York State Routes 14 and 14A.

### **Summary**

Potential visual impacts to designated aesthetic resources have been evaluated in accordance with NYSDEC Program Policy DEP-00-2 and the Final Scope dated February 15, 2011. Based on this analysis, the majority of the proposed improvements will not be visible from Seneca Lake and New York State Route 414, running along the eastern portion of Seneca Lake. The brine pond embankments and portions of site clearing will be visible or partially visible from New York State Route 414, New York State Route 14A and New York State Route 14. Once the brine ponds are constructed and the side slopes of the embankments are vegetated, the views from Seneca Lake, New York State Route 414 and New York State Route 14A are anticipated to be similar to the current views. The proposed brine pond sites will be visible from New York State Route 14 and New York State Route 14A. The transfer facility will also be visible from New York State Route 14A. Potential visual impacts along New York State Route 14 and New York State Route 14A will be mitigated during site development activities through strategic native plantings and seeding at both the brine pond sites and the transfer facility site. It is not anticipated that the proposed project will result in any significant adverse visual impacts.

## C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

*Mr. Kevin Bernstein, Esq.*

*Watkins Glen LPG Storage Facility Visual Impact Assessment*

*November 20, 2014*

*Page - 12*

If you have any questions or require further information, please contact me or Frank Palumbo, RLA at (518) 786-7400.

Sincerely,

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Raymond T. Liuzzo, P.L.S.

Division Manager, Survey

- c:
- L. Schwartz, Esq. (NYSDEC, Region 8)
  - M. Domagala (NYSDEC, Region 8)
  - D. Bimber (NYSDEC, Region 7)
  - J. Maglienti, Esq. (NYSDEC)
  - R. Alessi, Esq. (DLA Piper LLP)
  - B. Bacon, Esq. (Crestwood Equity Partners LP)
  - F. Palumbo, RLA (C.T. Male)
  - J. Munsey, PG (C.T. Male)
- NYSDEC Office of Hearings  
Town of Reading  
Watkins Glen Public Library

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment A**  
**Finger Lakes LPG Storage, LLC**  
**Site Operations Plan**



CAG DWG. FILE NAME: SITE OPERATIONS PLAN.DWG

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR.	UNAUTHORIZED ALTERATION OF ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
11/19/14	REVISED TO SHOW 2 PONDS	SMW	RTL		

**SITE OPERATIONS PLAN**

**FINGER LAKES LPG STORAGE, LLC**

TOWN OF READING SCHUYLER COUNTY, NEW YORK

**C.T. MALE ASSOCIATES**  
 Engineering, Surveying, Architecture & Landscape Architecture, P.C.  
 50 CENTURY HILL DRIVE, LATHAM, NY 12110  
 518.786.7400 • FAX: 518.786.7299

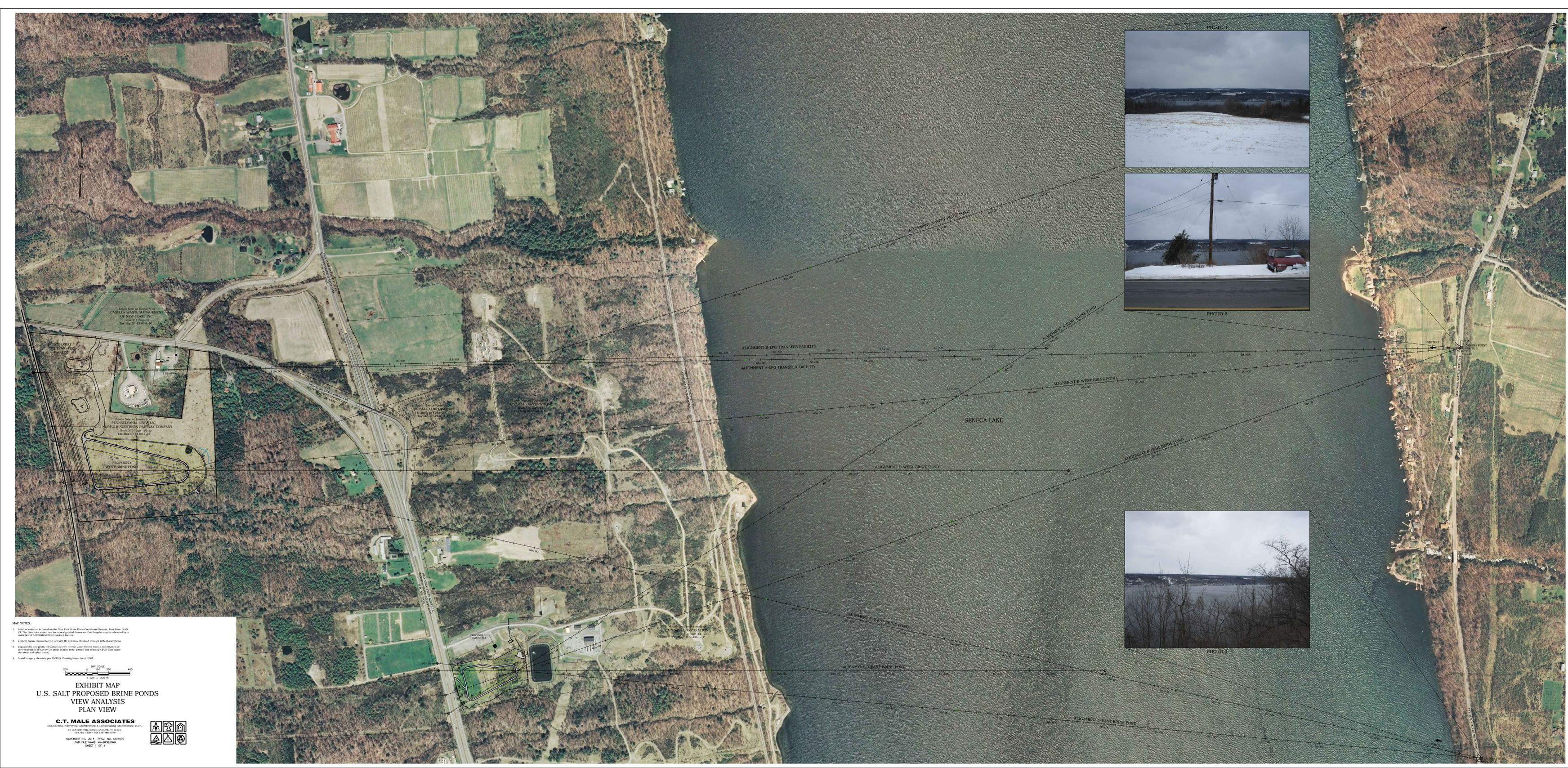
DESIGNED: TJH  
 DRAFTED: DLP  
 CHECKED: TJH  
 PROJ. NO: 08.8696  
 SCALE: 1"=200'  
 DATE: FEB. 24, 2011

SHEET 1 OF 1  
 DWG. NO: 14-548

C.T. MALE ASSOCIATES

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**Attachment B**  
**Finger Lakes LPG**  
**Visual Assessment Plan View**



- MAP NOTES:
1. North orientation is based on the New York State Plane Coordinate System, East Zone, NAD 83. The distances shown are horizontal ground distances. Grid lengths may be obtained by a multiplier of 0.9999476 Constant factor.
  2. Vertical datum shown herein is NAVD 88 and was obtained through GPS observations.
  3. Topography and profile elevations shown herein were derived from a combination of conventional field survey, 3D area of new terrain profile and existing LIDAR data. Lake elevations are from mean low water.
  4. Aerial imagery shown is per NYSDEC Clearinghouse dated 2007.



**EXHIBIT MAP**  
**U.S. SALT PROPOSED BRINE PONDS**  
**VIEW ANALYSIS**  
**PLAN VIEW**

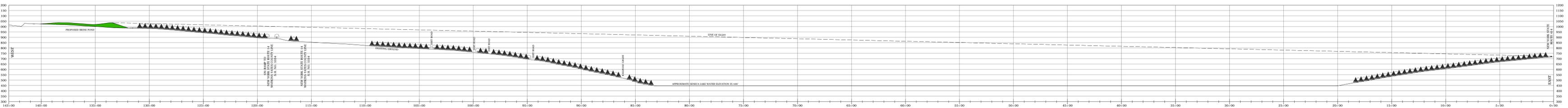
**C.T. MALE ASSOCIATES**  
 Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.  
 30 CENTURY III DRIVE, SUITE 101  
 HUNTSVILLE, ALABAMA 35894  
 NOVEMBER 19, 2014 PROJECT NO. 08-0066  
 CAD FILE NAME: US-SAGE.DWG  
 SHEET 1 OF 4



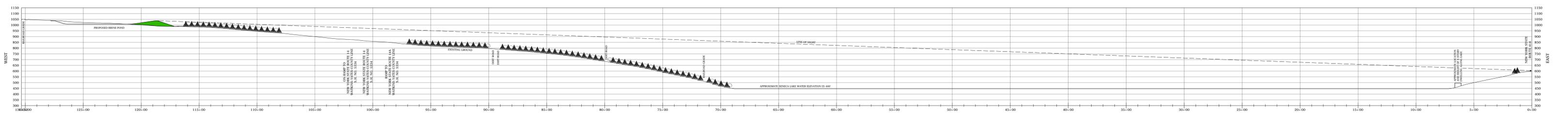
C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

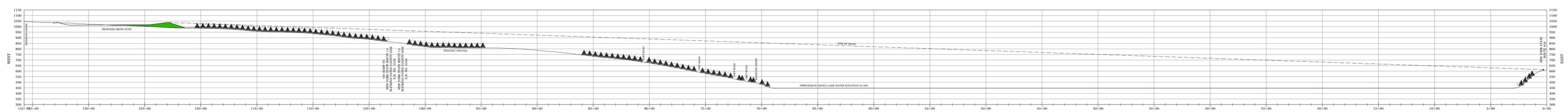
**Attachment C**  
**Finger Lakes LPG**  
**Visual Assessment Profile View**



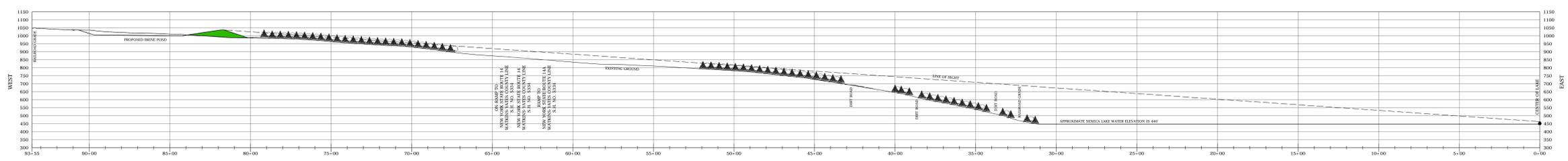
PROFILE: ALIGNMENT A - WEST BRINE POND  
SCALE HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 200'



PROFILE: ALIGNMENT B - WEST BRINE POND  
SCALE HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 200'



PROFILE: ALIGNMENT C - WEST BRINE POND  
SCALE HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 200'



PROFILE: ALIGNMENT D - WEST BRINE POND  
SCALE HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 200'

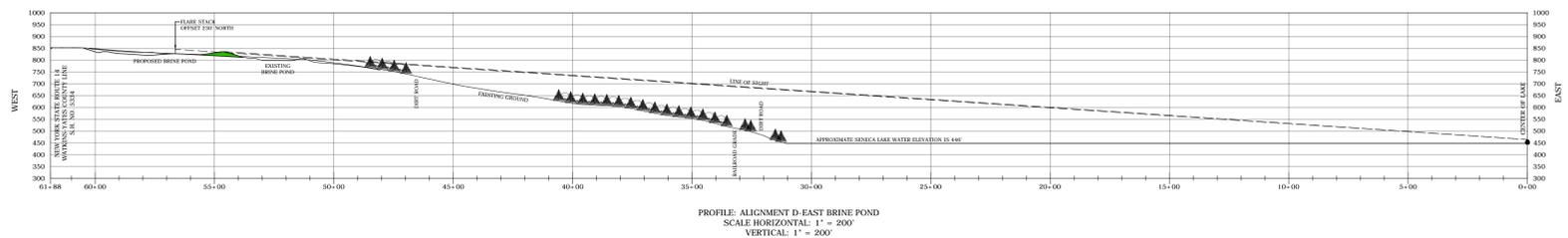
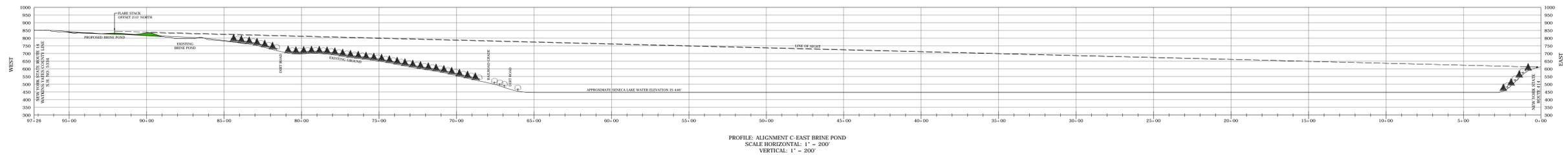
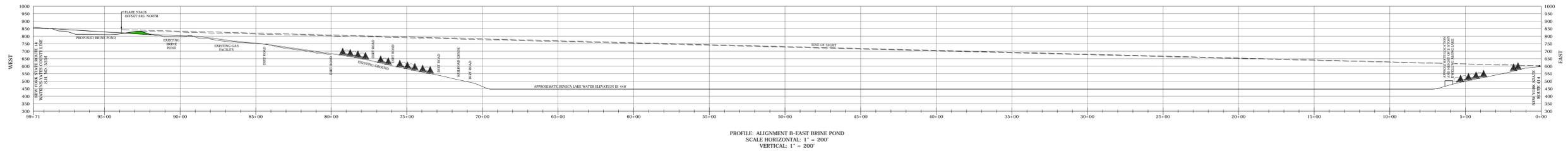
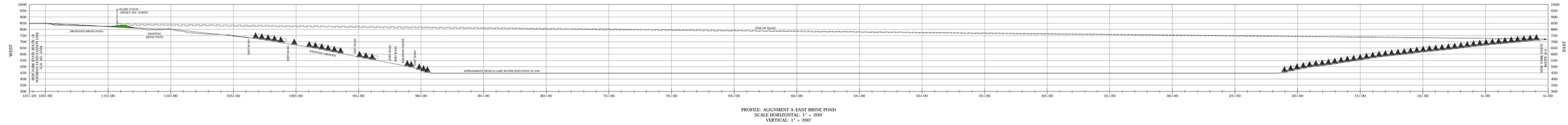
- MAP NOTES:
1. North orientation is based on the New York State Plane Coordinate System, East Zone, NAD 83. The distance shown on horizontal ground distance. Grid lengths may be obtained by a multiplier of 0.9999644128 (constant factor).
  2. Vertical datum shown herein is NAVD 88 and was obtained through GPS observations.
  3. Topographic and profile elevations shown herein were derived from a combination of conventional field survey (in areas of new brine ponds) and existing LIDAR data (Lake elevations not affected).
  4. Aerial imagery shown is per NYSGIS Overflights dated 2007.



EXHIBIT MAP  
U.S. SALT PROPOSED BRINE PONDS  
VIEW ANALYSIS  
PROFILE VIEW

**C.T. MALE ASSOCIATES**  
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90 CENTER HILL DRIVE, CANTON, NY 13731  
TEL: 518-537-1333 FAX: 518-537-1399  
NOVEMBER 19, 2014 PROJ. NO. 08-8966  
CAD FILE NAME: US-SALT-2014  
SHEET 2 OF 4





- MAP NOTES:
1. North orientation is based on the New York State Plane Coordinate System, East Zone, NAD 83. The distances shown are horizontal ground distances. Grid lengths may be obtained by a multiplier of 0.99999848 (rounded factor).
  2. Vertical datum shown herein is NAVD 88 and was obtained through GPS observations.
  3. Topographic and profile elevations shown herein were derived from a combination of conventional data sources, the series of new brine ponds and existing TPOC One Lake brine ponds and other data.
  4. Aerial imagery shown is per NYSGIS Clearinghouse dated 2007.

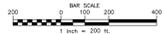
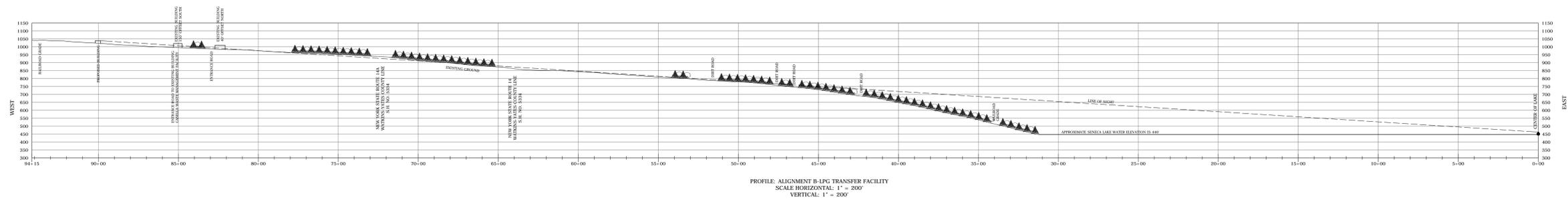
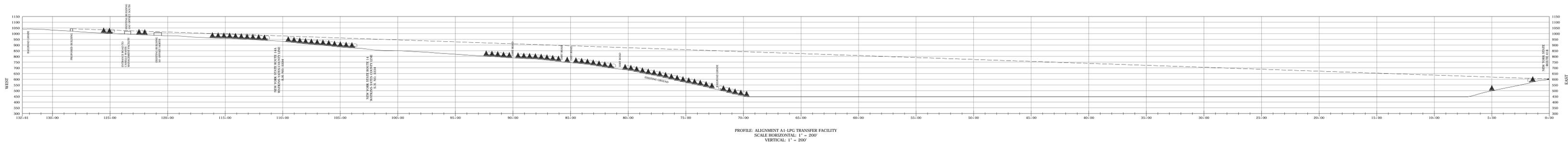


EXHIBIT MAP  
U.S. SALT PROPOSED BRINE PONDS  
VIEW ANALYSIS  
PROFILE VIEW

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscaping Architecture, D.P.C.  
30 CENTER HILL DRIVE, CANTON, NY 13731  
607-754-1100 FAX: 607-754-1105  
NOVEMBER 19, 2014 PROJ. NO. 08-8966  
CAD FILE NAME: US-SALT-2014  
SHEET 3 OF 4





MAP NOTES:

1. North orientation is based on the New York State Plane Coordinate System, East Zone, NAD 83. The distances shown are horizontal ground distances. Grid lengths may be obtained by a multiplier of 0.99999828 (rounded factor).
2. Vertical datum shown herein is NAVD 88 and was obtained through GPS observations.
3. Topography and profile elevations shown herein were derived from a combination of conventional observations, the series of new lidar points and existing DTM data. Lake elevation is from other sources.
4. Aerial imagery shown is per NYSGIS Chargehouse dated 2007.

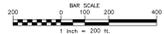


EXHIBIT MAP  
U.S. SALT PROPOSED BRINE PONDS  
VIEW ANALYSIS  
PROFILE VIEW

**C.T. MALE ASSOCIATES**  
Engineering, Surveying, Architecture & Landscaping Architecture, D.P.C.  
30 EAST 30th STREET, SUITE 201, NEW YORK, NY 10016  
TEL: (212) 512-1111 FAX: (212) 512-1110

NOVEMBER 19, 2014 PROJ. NO. 08-8996  
CAD FILE NAME: US-SALT-08-8996  
SHEET 4 OF 4

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment D**  
**Finger Lakes LPG**  
**East Brine Pond Site**  
**Existing Conditions Photo and**  
**Proposed Conditions Visual Simulation**

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Existing conditions view looking north at the East Brine Pond site along New York State Route 14.

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Proposed conditions view looking north at the East Brine Pond site along New York State Route 14 with young planting mitigation.

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Proposed conditions view looking north at the East Brine Pond site along New York State Route 14 with mature planting mitigation.

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment E**  
**Finger Lakes LPG**  
**LPG Transfer Facility Site and West Brine Pond**  
**Existing Conditions Photo and**  
**Proposed Conditions Visual Simulation**

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Existing conditions view looking southwest at the LPG Transfer Facility and West Brine Pond site along New York State Route 14A.

# C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.



Proposed conditions view looking southwest at the LPG Transfer Facility and West Brine Pond site along New York State Route 14A before planting mitigation.

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

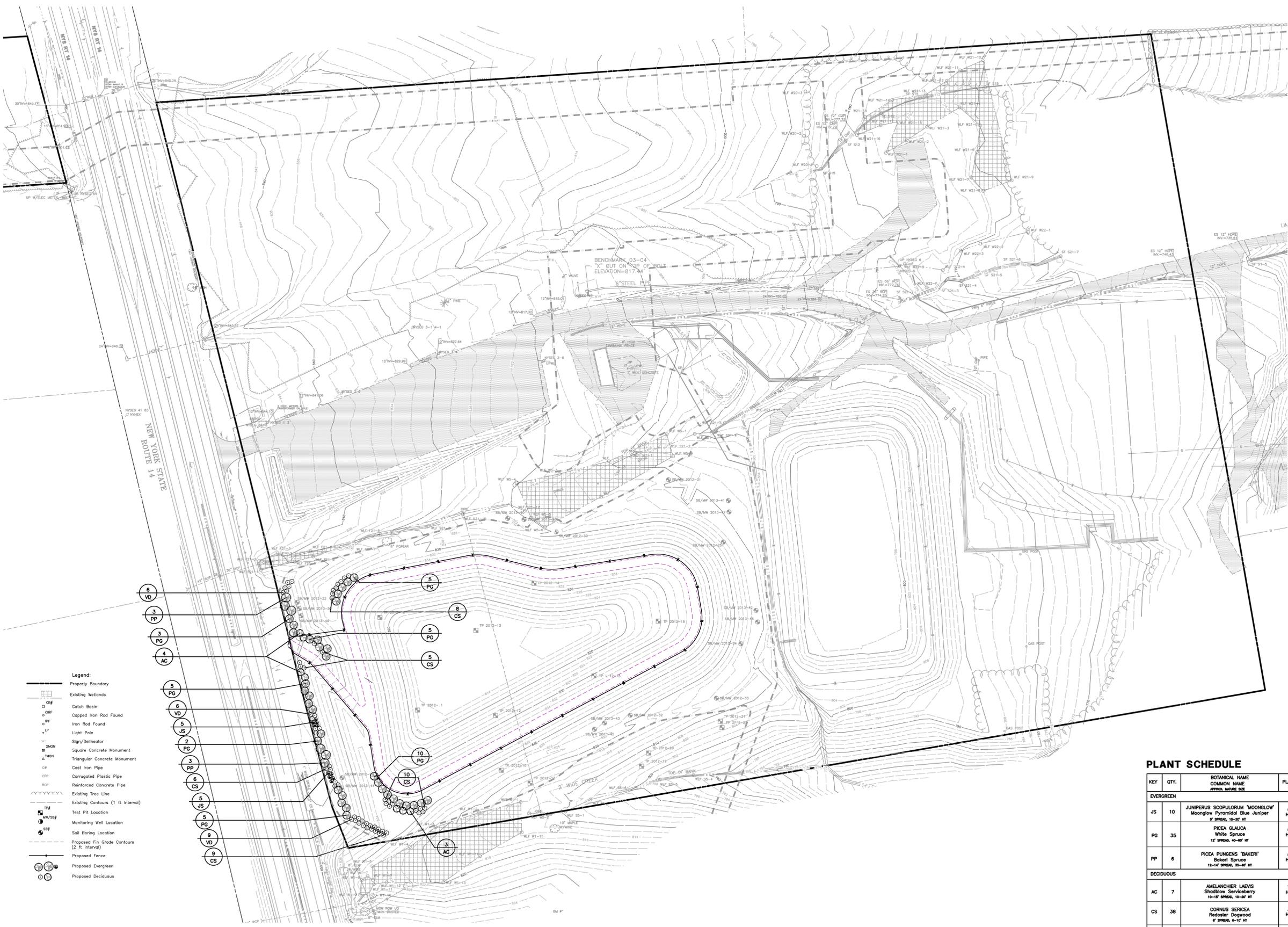


Proposed conditions view looking southwest at the LPG Transfer Facility and West Brine Pond site along New York State Route 14A after planting mitigation.

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment F**  
**Finger Lakes LPG**  
**East Brine Pond Site Landscaping Plan**

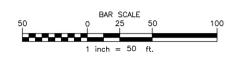


- Legend:**
- Property Boundary
  - Existing Wetlands
  - Catch Basin
  - Capped Iron Rod Found
  - Iron Rod Found
  - Light Pole
  - Sign/Delineator
  - Square Concrete Monument
  - ▲ Triangular Concrete Monument
  - Coat Iron Pipe
  - Corrugated Plastic Pipe
  - Reinforced Concrete Pipe
  - Existing Tree Line
  - Existing Contours (1 ft interval)
  - TP Test Pit Location
  - Monitoring Well Location
  - Soil Boring Location
  - Proposed Fin Grade Contours (2 ft interval)
  - Proposed Fence
  - Proposed Evergreen
  - Proposed Deciduous

- 6 VD
- 3 PP
- 3 PG
- 4 AC
- 5 PC
- 6 VD
- 5 JS
- 2 PG
- 3 PP
- 6 CS
- 5 JS
- 5 PC
- 9 VD
- 9 CS
- 10 PC
- 10 CS
- 3 AC

**PLANT SCHEDULE**

KEY	QTY.	BOTANICAL NAME COMMON NAME SPREAD, HEIGHT, etc.	PLANTING SIZE	ROOT	SPACING	NOTES
<b>EVERGREEN</b>						
JS	10	JUNIPERUS SCOPULORUM 'MOONGLOW' Moonglow Pyramidal Blue Juniper 8' SPREAD, 15-20' HT	6'-7" HEIGHT	B&B	AS SHOWN	
PG	35	PICEA GLAUCA White Spruce 12" SPREAD, 10-12' HT	6'-7" HEIGHT	B&B	AS SHOWN	
PP	6	PICEA PUNGENS 'BAKER' Baker Spruce 12-14" SPREAD, 30-40' HT	6'-7" HEIGHT	B&B	AS SHOWN	
<b>DECIDUOUS</b>						
AC	7	AMELANCHIER LAEVIS Shadbush Serviceberry 10-15" SPREAD, 10-20' HT	7'-8" HEIGHT	B&B	AS SHOWN	
CS	38	CORNUS SERICEA Redosier Dogwood 6" SPREAD, 8-10' HT	3'-4" HEIGHT	B&B	AS SHOWN	
VD	21	VIBURNUM DENTATUM Arrowwood Viburnum 6" SPREAD, 6-8' HT	3'-4" HEIGHT	B&B	AS SHOWN	



DATE	REVISIONS RECORD/DESCRIPTION	DRAFTER	CHECK	APPR
08/20/12	REVISED PER NYSDC COMMENTS	JOE	TJM	TJM
09/10/12	REVISED PER NYSDC COMMENTS	JOE	TJM	TJM
09/01/13	BID PLANS	NGK	TJM	TJM

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C.T. MALE ASSOCIATES

DESIGNED: JMM/MLG  
DRAFTED: JMM/MLG  
CHECKED: FGP  
PROJ. NO: 08.8696  
SCALE: 1"=50'  
DATE: MAY 22, 2012

**LANDSCAPING PLAN - EAST BRINE POND**

**FINGER LAKES LPG STORAGE, LLC  
EAST AND WEST BRINE PONDS**

TOWN OF READING SCHUYLER COUNTY, N.Y.

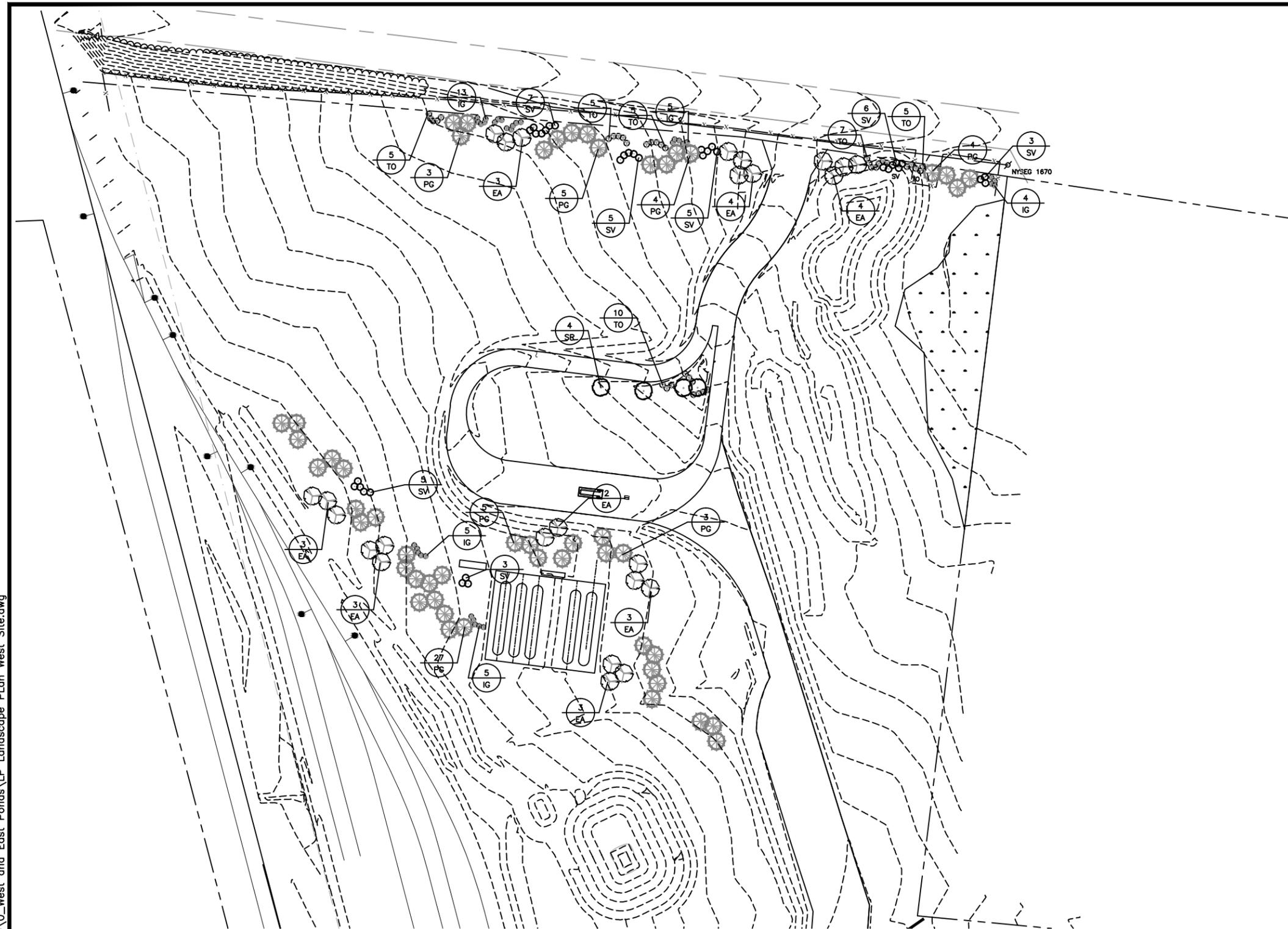
**C.T. MALE ASSOCIATES**  
Engineering, Surveying, Architecture & Landscape Architecture, P.C.  
50 CENTURY HILL DRIVE, LATHAM, NY 12110  
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**P6**  
SHEET 7 OF 23  
DWG. NO: 12-0254

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment G**  
**Finger Lakes LPG**  
**LPG Transfer Facility Site and West Brine Pond**  
**Landscaping Plan**



### PLANTING SCHEDULE

KEY	QTY.	SYMBOL	BOTANICAL NAME COMMON NAME APPROX. MATURE SIZE	PLANTING SIZE
EVERGREEN				
IG	59	•	RHODODENDRON PERICLYMENODIES PINK AZALEA	#15 CONT.
PG	49	⊗	PINUS STROBUS EASTERN WHITE PINE	6'-7' HEIGHT
TO	57	⊙	TSUGA CANADENSIS CANADIAN HEMLOCK	7'-8' HEIGHT
DECIDUOUS				
EA	31	⊗	AMELANCHIER LAEVIS ALLEGHENY SERVICEBERRY	7'-8' HEIGHT
SR	3	○	PRUNUS VIRGINIANA CHOKECHERRY	2"-2.5" CAL.
SV	21	⊙	PRUNUS SEROTINA BLACK CHERRY	5'-6' HEIGHT

CAD DWG. FILE NAME: K:\Projects\088696\LD\0\_West and East Ponds\LP\_Landscape Plan\_West Site.dwg

CAD DWG. FILE NAME: LP\_Landscape Plan

DATE	REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW.
11/19/14	1 REVISED LAYOUT	SMW	RTL	WJN	
	2				
	3				
	4				
	5				
	6				DESIGNED : DMP
	7				DRAFTED : DMP
	8				CHECKED : DJP
	9				PROJ. NO: 08.8696
					SCALE : 1"=50'
					DATE : FEB. 9, 2011

## LANDSCAPING PLAN

### FINGER LAKES STORAGE, LLC TRUCK TRANSFER FACILITY

TOWN OF READING SCHUYLER COUNTY, NEW YORK

## C.T. MALE ASSOCIATES

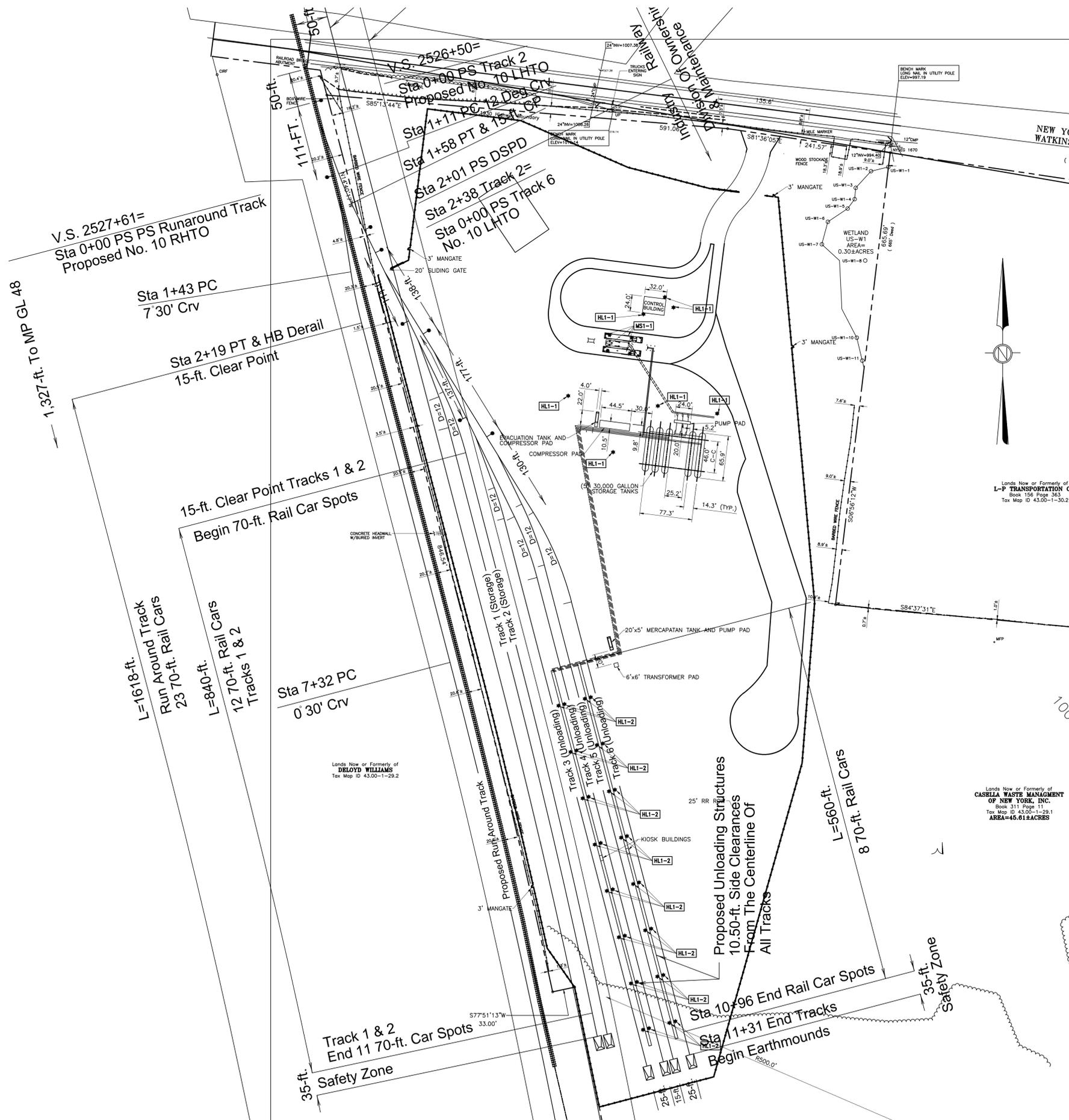
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.  
50 CENTURY HILL DRIVE, LATHAM, NY 12110  
518.786.7400 \* FAX 518.786.7299

SHEET 1 OF 1  
DWG. NO: 10-0317

C.T. MALE ASSOCIATES

Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.

**Attachment H**  
**Finger Lakes LPG**  
**LPG Transfer Facility Site**  
**Lighting Plan**

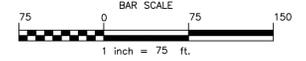
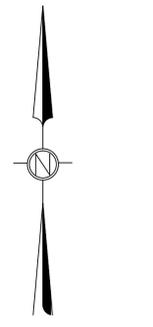


**LUMINAIRE SCHEDULE**

TYPE	DESCRIPTION	LAMP	VOLTAGE	BALLAST	MANUFACTURER	REMARKS
HL1-1	(1) 400 W HPS General Area Floodlight Luminaire with 24" Single Mounting Bracket on 18' Pole	LU400	480 V. 1ph.	HPF	LSI CTM-FT-400-SMH-F-480V	
HL1-2	(1) 400 W HPS XP Series Downlights 1-1/2" Stanchion Mount Class 1, Div 1 Fixture	400W MOGUL	480 V. 1PH.	REACTOR	LDPI X-S-0-40-P-480-S5	A
MS1-1	(1) 400 W HPS CANOPY 400 Watt HPS Fixture for Ceiling Mounting Class 1, Div 1 Fixture	400W MOGUL	480V. 1PH.	REACTOR	LDPI X-S-0-40-P-480-C2	A

**LUMINAIRE SCHEDULE REMARKS**

A. SUBSTITUTIONS ACCEPTABLE WITH PRIOR APPROVAL FROM OWNER.



NO.	REVISION	DATE:	BY	APPROVED BY
G	GENERAL REVISION	11/12/14	GAW	
C	SHIFTED TANK AND TRUCK AREA TO THE SOUTH	10/8/09	GAW	
B	ADDED MERCAPATAN TANKS AND TRANSFORMER PAD	9/25/09	GAW	
A	INITIAL RELEASE	8/28/09	GAW	

**SUPERIOR ENERGY SYSTEMS LTD.**  
 13660 North Station Rd., Columbia Station (Cleveland), Ohio 44028 USA

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INERGY  
 WATKINS GLEN, NY

SCALE: 1"=75'  
 DRAWN BY: HLK  
 APPROVED BY:

PROPANE/BUTANE STORAGE FACILITY  
 FENCE AND LIGHTING PLOT PLAN

DATE: 6/12/09  
 DRAWING NUMBER: 9030-03.5  
 SIZE: D  
 REVISION: C