



**STATE ENVIRONMENTAL QUALITY REVIEW ACT
DETERMINATION OF NON-SIGNIFICANCE (NEGATIVE DECLARATION)**

SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

DATE: June 8, 2017

NAME OF ACTION: Smith Hill Creek Stormwater Management System Improvement Project

LOCATION: Norton Drive, Hillside Drive, Smith Hill Road and Wallace Road, Town of Chenango, NY 13905

SEQRA CLASSIFICATION: Type I; Unlisted

REVIEW TYPE: Coordinated; Uncoordinated

DETERMINATION OF SIGNIFICANCE: Negative Declaration; Positive Declaration

The Proposed Project:

The Governor's Office of Storm Recovery (GOSR) is managing the U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program pursuant to the Disaster Relief Appropriations Act of 2013 (Public Law 113-2, approved January 29, 2013). The New York State (NYS) Housing Trust Fund Corporation (HTFC), which administers the CDBG-DR program funds on behalf of GOSR, intends to approve funding for the storm water management improvements to Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road located in the Town of Chenango, Broome County, New York, from the CDBG-DR Community Reconstruction and Infrastructure Program Fund. The Project would disturb approximately 4.8 acres of previously developed land.

The proposed Project site is an approximately 4.8-acre area of previously developed land. Smith Hill Creek is a manmade stream located in the Wallace Road neighborhood in the southern portion of the Town of Chenango. The creek and its associated stormwater management components consist of underground pipes of varying sizes and materials, as well as open swales and culverts that wind through a residential neighborhood and eventually empty into a Broome County stormwater management system along Front Street and then into the Chenango River. The area in the general vicinity can be described as primarily residential, with minimal commercial development including shops, restaurants, and banking centers to the north of Norton Drive and to the east of the overall Project area along Front Street. Smith Hill Creek is a tributary of the Chenango River, which is located approximately 1,200 feet east of the proposed Project site.

The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek. The individual Project elements include:

- A debris basin located slightly upstream of the existing pipe at the beginning of the Project on Smith Hill Creek. The basin width will be significantly wider than the stream, slowing the velocity of the

flow. As the velocity decreases the debris will settle out and drop, reducing the potential for plugging the pipes just downstream.

- A series of berms and benches along Smith Hill Creek to increase its capacity. Berms would be placed on the south side of the creek, with benches on the north side. The benches and berms would vary in width and height, but typically would be approximately two- to three-foot increases in elevation. The benches would be vegetated and designed to blend with the appearance of the adjacent lawn areas.
- A new parallel pipe along Wallace Road
- Increasing the size of culverts along Smith Hill Creek
 - At Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
 - At the driveway just downstream of Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
 - At Hillside Drive (12-foot-wide by 6-foot-high box culvert)
 - At the Norton Drive extension (12-foot-wide by 6-foot-high box culvert)
 - At the driveway downstream of Norton Drive (12-foot-wide by 6-foot-high box culvert)
 - Along (under) Norton Drive twin 48 inches by 76 inches elliptical pipes
 - Across Front Street (approximate 12-foot-wide by 6-foot-high box culvert)
- An infiltration system at the low point on Wallace Road
- A 24-inch reinforced concrete outlet pipe at the low point on Wallace Road that would drain to the NYSDOT structure on Front Street.

Purpose and Need:

Heavy rain during Hurricane Irene saturated the soil in the Town of Chenango. Ten days later the volume of rain from Tropical Storm Lee inundated the Smith Hill Creek stormwater system. The system was overwhelmed by sheet flow draining off of local hills and became clogged with debris. Stormwater overflowed the system and flooded the portion of the neighborhood that stretches along Wallace Road, which is located in a depression with inadequate catch basins and drainage. Water became trapped in this low-lying area and flooded roadways and approximately 50 homes. The purpose of the proposed improvements is to mitigate future system failures and associated property loss by providing secure and reliable drainage infrastructure. The proposed Project will ensure a safe and healthy environment for the local residents, businesses, and visitors.

Existing Conditions:

The Town of Chenango is situated in the eastern part of Broome County, along the Chenango River northeast of the City of Binghamton. The town was first settled in 1787 and was established in 1791. It is one of the original towns in Broome County and was formed before the county was established. It is part of the Binghamton Metropolitan Statistical Area and is part of the northern suburbs of Binghamton. The town includes the hamlets of Castle Creek, Chenango Bridge, Nimmonsburg, Chenango Forks, and Kattlesville. According to the U.S. Census Bureau, the town has a total area of 34.3 square miles, of which, 33.9 square miles is land and 0.3 square miles is water. Interstate 81, U.S. Route 11 (Front Street), and NYS Route 12 pass through the town. Front Street is the primary commercial corridor in the town. The central and northern portions of the town are primarily rolling hills, agricultural land, and large residential parcels. It becomes more urban and densely populated to the south, with an overall population density of 332.6 per square mile. Between April 1, 2010 and July 1, 2015, the population in the town decreased by 2.2 percent.

Much of the town is in the Chenango Watershed, included protected lands that cover the aquifer that supplies the town's water. Three wellhead protection zones are within the borders of the town and four others are along the southeastern municipal line. The town's economy relies on the businesses along Front Street, where the majority of local businesses are located. This area is also within FEMA-designated floodplains and is subject to flooding during heavy rains and with increased volume in the Chenango River. Workers drawn to the region have increased the demand for the development of new housing. The Town of Chenango Comprehensive Land Use Plan strives to direct growth to area with existing infrastructure to preserve the natural environment.

Funding:

The total Project cost is estimated at \$1,200,748. GOSR proposes to allocate funding pursuant to the U.S. Department of HUD CDBG-DR program as authorized by the Disaster Relief Appropriations Act of 2013 (Public Law 113-2, approved January 29, 2013). The NYS HTFC, which administers the CDBG-DR program funds on behalf of GOSR, intends to approve funding for the proposed Project as described in this notice.

Environmental Considerations:

Land Use, Zoning, Public Policy and Urban Design – The proposed Project is consistent with existing zoning regulations, land use types, building height and scale. The Project would maintain current land use and would therefore be compatible with existing land use. The Project site would continue to be zoned as Residential (R), Agricultural (A), and Planned Development Commercial (PD-C). The proposed Project is allowable under this zoning as it is consistent with the current land use on the property and the adopted town comprehensive plan. The proposed Project also falls under the 2014 Town of Chenango NY Rising Community Reconstruction Plan (NYRCR), and has strong support from the Committee and the Town of Chenango. The proposed Project would not result in the creation of new jobs and/or an increase in the number of employees and would therefore not have an urbanizing effect.

Soil Suitability, Slope, Erosion, Drainage, and Storm Water Runoff – The proposed site is previously disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. The area in the general vicinity can be described as primarily residential, with minimal commercial development including shops, restaurants, and banking centers to the north of Norton Drive and to the east of the overall Project area along Front Street. Smith Hill Creek is a tributary of the Chenango River, which is located approximately 1,200 feet east of the proposed Project site. According to the United States Department of Agriculture (USDA) – Natural Resources Conservation Service (NRCS) Web Soil Survey, the proposed Project site is flat to moderately sloped with 0 to 25% slopes. The proposed activities will not change the slope of the existing site. Because the amount of ground disturbance at the Project site is greater than one acre, construction and operation of the stormwater control system and all Project construction would be in accordance with Section 402 of the Clean Water Act that requires authorization by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York State’s Pollutant Discharge Elimination System (SPDES) is a NPDES-approved program. Coverage under the New York State Department of Environmental Conservation (NYSDEC) GP-15-002 permit would be obtained prior to the commencement of construction activity. In addition, best management practices (BMPs), such as silt fence and erosion prevention, would be implemented to eliminate erosion impacts for program locations that require excavation or soil modification, so impacts from erosion are not anticipated as a result of this Project. A few small trees will need to be removed. Although in-ground disturbance will occur for the new stormwater management system, any soil impacts during construction would be considered negligible. The proposed Project is a stormwater control facility. Stormwater protection measures would include upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek.

Hazards and Nuisances, including Site Safety and Noise – The proposed Project will not adversely affect air quality. The proposed Project is not located in a designated non-attainment area for air quality and the proposed activities will not affect transportation patterns or levels of service thereby aiding the preservation of local air quality. Standard BMPs will be implemented during construction to control dust and other emissions. No significant impacts on air quality will result due to the proposed Project.

No hazardous or solid waste storage is evident on the site, and the Project would not expose new populations to hazardous or nuisances because no new populations would reside on the Project site. A search of the NYSDEC Bulk Storage Program Database identified 25 petroleum bulk storage facilities within 1 mile of the Project site. Two bulk storage sites are located adjacent to the Project area. Boland’s Topsoil is located at 301 Smith Hill road, approximately 300 feet east of Smith Hill Creek. Two 2,000-gallon underground storage tanks (USTs), one that contained diesel fuel and one that contained gasoline, were removed in 2006. Jai Ravi Inc. is also adjacent to the Project area at 1065 Front Street, approximately 375 feet north of Wallace Road. Four USTs (three 8,000-gallon gasoline/ethanol tanks and one 4,000-gallon diesel tank) are in service at the

facility. One 550-gallon that contained #2 fuel oil has been removed. The location of these active USTs and any fuel lines would be established prior to Project-related disturbance. Project would not disturb these tanks, and they would not pose a hazard to the Project or the surrounding community.

A search of the NYSDEC Remedial Site Database identified five facilities within 1 mile of the Project site. Two State Superfund sites (CAE Electronics Hillcrest Facility and Binghamton Rifle Range), one Brownfield Cleanup site (TCMF Hillcrest Facility), and one Voluntary Cleanup site (CAE Electronics Hillcrest Facility) are located on the opposite side of the Chenango River. CAE Electronics Facility is listed as a State Superfund Site and a Voluntary Cleanup Site. An additional Voluntary Cleanup site (the former Broome Community College firing range) is located approximately 4,800 feet to the south of the Project on the same side of the Chenango River (See Attachment B8_Remediation Sites). The TCMF Hillcrest Facility released wastewater into drywells on-site that contained metals such as cadmium, chromium, nickel and zinc. The former Broome Community College firing range was contaminated by heavy metals (primarily lead). Remediation has been completed at these two sites; therefore, these sites do not present a threat to the environment or human health. The CAE Electronics Hillcrest Facility is a former manufacturing facility that was contaminated by heavy metals and volatile organics, which were found in the soil beneath the on-site outfall structures. Groundwater dissipating west and northwest from the outfall structures of the site has been contaminated with chromium and Trichloroethylene (TCE). The site is being investigated pursuant to the State Superfund program due to groundwater contamination and the potential for soil vapor intrusion to the adjacent neighborhood. However, exposures to contaminated groundwater and soil are not anticipated as the nearby neighborhood obtains water from a public water supply and the contaminated soil has been remediated. The Binghamton Rifle Range is a former small arms range and is currently a privately owned residence. No munitions or explosives of concern (MEC) were discovered within the munitions response site (MRS). However, antimony, copper, and lead were found in soil samples at concentrations that exceeded the respective calculated background and the human health screening values. As further information becomes available at this site, it will be reviewed by the New York State Department of Health (NYSDOT) to determine if site contamination presents any concerns to public health. The Project would not result in the exposure of people or sensitive environmental resources to the facilities identified in these databases as the remediation sites are located approximately 4,000 feet or greater from the Project site. Therefore, ground disturbance associated with the Project would not impact the remediation sites identified above.

Some noise may be generated during construction; however, this will be temporary and will not adversely impact the surrounding areas. The proposed activities will not significantly increase the level of noise or vibration compared to current conditions. In addition, no blasting will be required.

Energy Consumption – The proposed Project will not cause an increase in the use of energy because no changes in land use, population, or energy infrastructure would occur. No impacts would occur to existing nearby suppliers.

Socioeconomic Impacts and Community Facilities and Services – The proposed Project would create temporary construction jobs. However, these jobs would not significantly increase employment opportunities or impact income patterns. The proposed Project would not result in the creation of new permanent jobs and/or result in an increase in the number of employees in the Town of Chenango and therefore would not impact employment and income patterns or alter the demographic characteristics of the surrounding community.

In addition, the Project would not increase the demand for educational, health care or social service facilities, nor would it directly or indirectly displace people, businesses, institutions, or community facilities as it would occur within existing developed land in the Town of Chenango.

The Project site does not contain a structure that is listed on either the State or National Register of Historic Places (NRHP). The Project site has been identified as being sensitive for archaeological sites, which indicates that the Project site contains an archaeologically sensitive resource designated on the NY State Historic Preservation Office (SHPO) archaeological site inventory. Consultation with the SHPO was initiated on April 19, 2017 to confirm that the proposed Project would not affect listed state or NRHP sites or districts. A response was received on May 1, 2017 indicating that the Project will result in ‘No Historic Properties Affected’. In addition, representatives of the Delaware Nation, Delaware Tribe of Indians, Onondaga Nation, Seneca-Cayuga Nation, Tuscarora Nation, Oneida Indian Nation, The Mohawk Nation, St. Regis Mohawk

Tribe, and Stockbridge-Munsee Community, Band of Mohicans were sent a letter on March 29, 2017, with the site description, photographs, site plan, and map. Each was sent an updated letter with the revised site plan on April 20, 2017. Only the Stockbridge-Munsee Community, Band of Mohicans; Delaware Nation; and Oneida Indian Nation replied. On April 27, 2017, the Stockbridge-Munsee Community, Band of Mohicans stated that the Project is not in their area of interest. On April 24, 2017, the Delaware Nation indicated that with the information submitted they can concur at present with this proposed plan. They identified three main concerns: keeping a 50-100-foot (at least) area of protection around known sites; maintaining the buffer area and not allowing heavy equipment to impact these areas (compression is an issue); and if something is found, halting all work, contacting them within 48 hours and when work resumes discussion of a monitor if needed. On May 19, 2017, the Oneida Indian Nation indicated their concurrence with the assessment that the Project will likely result in No Historic Properties Affected, however, the Nation requests notification and the opportunity to respond to any inadvertent discoveries of historic properties or human remains if encountered during Project activities.

Construction activities will include upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek. The amount of solid waste generated from the construction would not significantly increase short-term generation of municipal solid waste as the total acreage would be 4.8 acres. All Project-generated solid waste materials must be managed and transported in accordance with the state's solid and hazardous waste rules.

No expansion of the sanitary sewer system would be required. The Project would not place a demand on a public sewer system.

No changes to the public/public water systems are anticipated as the proposed Project will not create a new demand for water.

The proposed Project would not result in the creation of new jobs and/or result in an increase in the number of employees in the Town of Chenango and therefore would not increase demand for police protection, fire protection, or emergency medical services. The purpose of the proposed improvements is to mitigate future system failures and associated property loss by providing secure and reliable drainage infrastructure. The proposed Project will ensure a safe and healthy environment for the local residents, businesses, and visitors.

The proposed Project of constructing the new facility would not impact open space or recreation.

The proposed Project would not impact transportation. There would be a negligible increase in construction traffic.

Natural Features – The Project site is not located within a state listed Critical Environmental Area (CEA).

After review of available databases, no mapped National Wetlands Inventory (NWI) or NYSDEC wetlands are located within or immediately adjacent to the proposed Project area. However, Smith Hill Creek is treated as a wetland under 24 CFR Part 55. The NYSDEC has classified Smith Hill Creek as a Class C for waters supporting fisheries and suitable for non-contact activities and would not be considered a protected stream (Regulation ID: 931-149). Proposed Project activities directly involving encroachment on Smith Hill Creek include culvert improvements along Wallace Road, Hillside Drive, Norton Drive and Smith Hill Road; increasing the cross sectional area of the channels; installing debris catchment structures; and installing trash racks along the upper portions of the Creek. The channel will be cleaned and widened in areas and will involve the removal of aquatic vegetation in order to alter the channel width. Stream banks will be reseeded with native seed mix and adjacent residential lawns will be restored to match existing conditions. Although the Project is located within a wetland, the Project is a functionally dependent use and constitutes a replacement-in-kind of a previously existing structure. In accordance with 24 CFR Part 55, Floodplain Management and Protection of Wetlands, a 5-step wetland analysis was done for the Project to identify potential impacts to Smith Hill Creek and methods to minimize the potential adverse impacts in a wetland. The analysis concluded that the Project would not alter the survival and quality of the wetlands. In a letter dated June 2, 2016, the NYSDEC stated that an Article 15, Protection of Waters Permit, pursuant to 6NYCRR Part 608 is required for this stream and may require a permit from the U.S. Army Corps of Engineers (USACE). A joint application for disturbance of a stream was submitted to the NYSDEC and the USACE. The Project would adhere to all applicable conditions in the permit.

The Project site is located within a NYSDEC-regulated principal and primary aquifer. The Project site is also within an Environmental Protection Agency (EPA)-regulated Sole Source Aquifer (SSA), the Clinton Street Ballpark SSA. Consultation with the EPA occurred on February 3, 2017. A response was received on February 22, 2017, indicating that the Project satisfies the requirements of Section 1424(e) of the Safe Drinking Water Act.

The Project site is not within the 100-year floodplain. A portion of the Project area along Norton Drive at Front Street is in Zone B, between the limits of the 100-year floodplain and the 500-year floodplain, subject to the 100-year flood to depths or less contributing drainage of less than one square mile, or protected by levees. The proposed Project will not result in an increase in the potential for erosion, flooding or drainage problems. The proposed actions will not create additional stormwater runoff, as the proposed Project is a stormwater control facility. There will be an increase in impervious surface on the Project site of approximately 0.06 acres.

The NY Natural Heritage Program (NYNHP) has no records of any rare or state-listed species in the Project area. The US Fish and Wildlife Service (USFWS) online review process, completed on April 27, 2016 using the Information, Planning, and Conservation (IPaC) planning tool identified one (1) federal threatened species, the northern long-eared bat (NLEB) (*Myotis septentrionalis*), and several migratory bird species, including the bald eagle (*Haliaeetus leucocephalus*), that the Project could potentially impact. On March 8, 2017 GOSR provided the USFWS notice of the proposed Project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c). GOSR determined that the proposed Project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule. The notice stated that if the USFWS does not respond within 30 days from submittal of the notice, then GOSR may presume that its determination for the project is informed by the best available information and its Project responsibilities under Section 7 of the ESA have been fulfilled. USFWS has not objected to the determination. GOSR has determined that the Project would have no significant adverse impact on migratory birds or their habitat and bald eagles.

Approximately 1.9 acres of the 4.8-acre Project area is classified as Prime Farmland, and approximately 1.1 acres of the 4.8-acre Project area is classified as Farmland of Statewide Importance. The Project area would be disturbed during construction but would return to its existing land use once it is completed. The area is previously disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. It is not in active cultivation. This amount of land falls under the NRCS small acreage exemption of 3 acres or less. According to Part 523.11 E of the Farmland Protection Policy Act (FPPA) Manual, an AD 1006 is not required for this Project, and it is exempt.

The proposed Project is classified as Type I action, and GOSR, as the lead agency, prepared a Full Environmental Assessment Form (FEAF) under SEQRA. The proposed Project is funding the stormwater management improvements to Smith Hill Creek to mitigate future system failures and associated property loss by providing secure and reliable drainage infrastructure, and as such is not of sufficient scale to result in adverse effects to existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, or to create erosion or drainage problems.

The proposed Project would include the following measures to avoid or reduce environmental effects:

- Implementation of standard BMP's would control dust and other emissions during construction.

Standard Requirements:

Any change to the proposed Project as described will require re-evaluation by GOSR's Certifying Officer for compliance with State Environmental Quality Review Act (SEQRA) and other law, regulations and policies.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

Additional Mitigation Measures:

To the extent practicable, the following mitigation measures recommended by the EPA would be implemented by the Responsible Entity to minimize environmental impacts and create a more sustainable Project:

- Construction and demolition – utilize local and recycled materials in the construction process and to recycle materials generated onsite to the maximum extent possible
- Clean diesel – implement diesel controls, cleaner fuel, and cleaner construction practices for on-road and off-road equipment used for transportation, soil movement, or other construction activities, including:
 - Strategies and technologies that reduce unnecessary idling, including auxiliary power units, the use of electric equipment, and strict enforcement of idling limits; and
 - Use of clean diesel through add-on control technologies like diesel particulate filters and diesel oxidation catalysts, repowers, or newer, cleaner equipment.
- Stormwater – utilize low impact development (LID) principles such as minimizing effective imperviousness to create site drainage, and the planting of native and non-invasive vegetation on the Project site for stormwater management purposes. Other LID practices can include bioretention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements;
- Cost-efficient, environmentally friendly landscaping – EPA’s GreenScapes program provides cost-efficient and environmentally friendly solutions for landscaping;
- Energy efficiency – energy-efficient technologies should be incorporated into the firehouse when possible; and
- Water conservation and efficiency – promote water conservation and efficiency through the use of water efficient products and practices.
 - The use of products with the WaterSense label where appropriate.

In addition to the factors considered above, the GOSR considered the following guidance from the SEQRA and its implementing regulations and determined that the Proposed Action would:

- i. Not result in “a substantial adverse change in existing air quality, ground or surface water quality or quantity, traffic or noise levels; a substantial increase in solid waste production; a substantial increase in potential for erosion, flooding, leaching or drainage problems;” (§617.7(c)(1)(i))
- ii. Not result in “the removal or destruction of large quantities of vegetation or fauna; substantial interference with the movement of any resident or migratory fish or wildlife species; impacts on a significant habitat area; or other significant adverse impacts to natural resources;”(§617.7(c)(1)(iii))
- iii. Not result in “the creation of a material conflict with a community’s current plans or goals as officially approved or adopted;” (§617.7(c)(1)(iv))
- iv. Not result in “the creation of a hazard to human health;” (§617.7(c)(1)(vii))
- v. Not result in “a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses;” (§617.7(c)(1)(viii))
- vi. Not result in “the encouraging or attracting of a large number of people to a place or places for more than a few days, compared to the number of people who would come to such place absent the action;” (§617.7(c)(1)(ix))
- vii. Not result in “the creation of a material demand for other actions that would result in one of the above consequences;” (§617.7(c)(1)(x))
- viii. Not result in “changes in two or more elements of the environment, no one of which has a significant impact on the environment, but when considered together result in a substantial adverse impact on the environment; or (§617.7(c)(1)(xi))

Therefore, GOSR, acting as Lead Agency, and having prepared a FEAF, has determined that the proposed action will not have a significant effect on the environment and a Draft Environmental Impact Statement will not need to be prepared.



Lori A. Shirley
Date: June 8, 2017
Director, Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
New York State Homes & Community Renewal
38-40 State Street, Albany, NY 12207
Office: (518) 474-0755

Attachments:

Environmental Assessment Form (Parts, 1, 2 and 3)
Site Location Figure
Site Plan
Negative Declaration Distribution List

A copy of this Notice is available at the following web address:

<http://www.stormrecovery.ny.gov/environmental-docs>

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources. <i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length Two structures

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
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<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>n. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p> <p>_____</p> <p>_____</p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: _____</p> <p>_____</p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s):</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ 	

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? Yes No

If Yes:

i. Nature of historic/archaeological resource: Archaeological Site Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based: _____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? Yes No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? Yes No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? Yes No

If Yes:

i. Identify resource: Chenango Valley State Park

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): NYS Historic Places, NY State Parks

iii. Distance between project and resource: _____ 4.8 miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? Yes No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? Yes No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Harold Snopce Date 3/20/17

Signature Harold Snopce Title Supervisor

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Project :

Date :

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency’s reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land			
Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)		<input type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

2. Impact on Geological Features The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g) <input type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - c. If "No", move on to Section 3.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h) <input type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - l. If "No", move on to Section 4.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input type="checkbox"/>	<input type="checkbox"/>

I. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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4. Impact on groundwater The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) <i>If "Yes", answer questions a - h. If "No", move on to Section 5.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding The proposed action may result in development on lands subject to flooding. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. E.2) <i>If "Yes", answer questions a - g. If "No", move on to Section 6.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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6. Impacts on Air			
The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

7. Impact on Plants and Animals			
The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources			
The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)		<input type="checkbox"/> NO	<input type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>				<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>		
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>		
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>		
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>				<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input type="checkbox"/>	<input type="checkbox"/>		

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
e. If any of the above (a-d) are answered “Moderate to large impact may occur”, continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property’s setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>

11. Impact on Open Space and Recreation			
The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If “Yes”, answer questions a - e. If “No”, go to Section 12.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or “ecosystem services”, provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

12. Impact on Critical Environmental Areas			
The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If “Yes”, answer questions a - c. If “No”, go to Section 13.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

13. Impact on Transportation The proposed action may result in a change to existing transportation systems. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.j) <i>If "Yes", answer questions a - f. If "No", go to Section 14.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy The proposed action may cause an increase in the use of any form of energy. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.k) <i>If "Yes", answer questions a - e. If "No", go to Section 15.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: _____ _____			

15. Impact on Noise, Odor, and Light The proposed action may result in an increase in noise, odors, or outdoor lighting. <input type="checkbox"/> NO <input type="checkbox"/> YES (See Part 1. D.2.m., n., and o.) <i>If "Yes", answer questions a - f. If "No", go to Section 16.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health			
The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.) <i>If "Yes", answer questions a - m. If "No", go to Section 17.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____			

17. Consistency with Community Plans			
The proposed action is not consistent with adopted land use plans. (See Part 1. C.1, C.2. and C.3.) <i>If “Yes”, answer questions a - h. If “No”, go to Section 18.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action’s land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character			
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3) <i>If “Yes”, answer questions a - g. If “No”, proceed to Part 3.</i>		<input type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

Project :

Date :

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: Type 1 Unlisted

Identify portions of EAF completed for this Project: Part 1 Part 2 Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the _____ as lead agency that:

A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action:

Name of Lead Agency:

Name of Responsible Officer in Lead Agency:

Title of Responsible Officer:

Signature of Responsible Officer in Lead Agency: *W. A. Smith* Date:

Signature of Preparer (if different from Responsible Officer) *John P. Harte* Date:

For Further Information:

Contact Person:

Address:

Telephone Number:

E-mail:

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)

Other involved agencies (if any)

Applicant (if any)

Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

ATTACHMENT A

NEW YORK STATE ENVIRONMENTAL QUALITY REVIEW FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 – PROJECT INFORMATION

SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

DESCRIPTION AND CLASSIFICATION OF ACTION

This supplemental information has been prepared for the Project listed above as a companion to the Full Environmental Assessment Form (6 NYCRR Part 617.20 - Appendix B) completed by GOSR as part of an independent review as an Involved Agency, with consideration of Criteria for Determining Significance listed in 6 NYCRR 617.7.

Project Description: The Town of Chenango is requesting \$1,200,748.00 in CDBG-DR funding for stormwater management improvements to Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road and Wallace Road (See Attachment A1_Project Area). This creek is a manmade stream located in the Wallace Road neighborhood in the southern portion of the Town of Chenango. The creek and its associated stormwater management components consist of underground pipes of varying sizes and materials, as well as open swales and culverts that wind through a residential neighborhood and eventually empty into a Broome County-management stormwater system along Front Street and then into the Chenango River.

Flood waters from Tropical Storm Lee inundated the Smith Hill Creek stormwater system in the Town of Chenango, Broome County, New York. The system was overwhelmed by sheet flow draining off of local hills, and became clogged with debris. This resulted in stormwater overflowing the system and flooding the Wallace Road neighborhood. Additionally, the portion of the neighborhood that stretches along Wallace Road is located in a bowl-like geographic feature with inadequate catch basins and drainage. This resulted in water getting trapped in this area, flooding roadways and approximately 50 homes, many with at least four feet of water. The purpose of this proposed Project is to mitigate future system failures and associated property loss by providing an adequate stormwater management system (See Attachment A2_Pre-App Report_Signed_06-19-2015).

The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek. The individual Project elements include:

- A debris basin located slightly upstream of the existing pipe at the beginning of the Project on Smith Hill Creek. The basin width will be significantly wider than the stream, slowing the velocity of the flow. As the velocity decreases the debris will settle out and drop, reducing the potential for plugging the pipes just downstream.
- A series of berms and benches along Smith Hill Creek to increase its capacity. Berms would be placed on the south side of the creek, with benches on the north side. The benches and berms would vary in width and height, but typically would be approximately two- to three-foot increases in elevation. The benches would be vegetated and designed to blend with the appearance of the adjacent lawn areas.
- A new parallel pipe along Wallace Road
- Increasing the size of culverts along Smith Hill Creek

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT INFORMATION
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

- At Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
- At the driveway just downstream of Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
- At Hillside Drive (12-foot-wide by 6-foot-high box culvert)
- At the Norton Drive extension (12-foot-wide by 6-foot-high box culvert)
- At the driveway downstream of Norton Drive (12-foot-wide by 6-foot-high box culvert)
- Along (under) Norton Drive twin 48 inches by 76 inches elliptical pipes
- Across Front Street (approximate 12-foot-wide by 6-foot-high box culvert)
- An infiltration system at the low point on Wallace Road
- A 24-inch reinforced concrete outlet pipe at the low point on Wallace Road that would drain to the NYSDOT structure on Front Street (See Attachment A3_Proposed Improvements).

The purpose of the proposed improvements is to mitigate future system failures and associated property loss by providing secure and reliable drainage infrastructure. The proposed Project will ensure a safe and healthy environment for the local residents, businesses, and visitors.

Environmental Issues

The proposed Project area is located along Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road. The area in the general vicinity can be described as primarily residential, with minimal commercial development including shops, restaurants, and banking centers to the north of Norton Drive and to the east of the overall Project area along Front Street. Smith Hill Creek is a tributary of the Chenango River, which is located approximately 1,200 feet east of the proposed Project site.

Based on review of available databases and consultations with appropriate state and federal agencies, there are no known or anticipated environmental issues involved with the proposed Project.

SEQR Classification: Operating under the auspices of New York State Homes and Community Renewal (HCR), the Governor's Office of Storm Recovery (GOSR) disburses funding made available by the U.S. Department of Housing & Urban Development's (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program. For this proposed Project, GOSR serves as Lead Agency and must make a discretionary decision to fund the proposed action. It is independently responsible for ensuring that its own decision is consistent with the requirements of SEQR.

The proposed Smith Hill Creek Storm Water Management System Project involves upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek. It is located along Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road in the Town of Chenango, on currently developed land that comprises an approximately 4.8-acre area. Approximately 0.726 acres of the Project area is covered with impervious surfaces. The proposed features that would increase the amount of impervious surface include increased culvert sizes at Smith Hill Road, Smith Hill Driveway, Hillside Drive, and Norton Drive Extension; Norton Drive driveway; Norton Drive at Front Street; and the new Wallace Road infiltration system. These elements would increase the impervious surfaces along Smith Hill Creek, Wallace Road, and Norton Drive to approximately 0.783 acres, an increase of 0.06 acres.

The subject property and proposed Project site has been classified as an Type I Action pursuant to SEQR and reviewed and completed as such. GOSR conducted a Coordinated review to make its determination of significance and decision to fund the action. GOSR used the Full Environmental Assessment Form (FEAF) as the basis for its determination of significance for the proposed action. For a Type I, there is filing requirements for a negative declaration; therefore, GOSR will maintain the Administrative Record, provide

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT INFORMATION
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

a copy of the negative declaration to the applicant and to any other involved agencies, and make its files available for public reference.

ATTACHMENT B
NEW YORK STATE ENVIRONMENTAL QUALITY REVIEW
FULL ENVIRONMENTAL ASSESSMENT FORM
PART 1 – PROJECT AND SETTING

SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

This supplemental information has been prepared for the Project listed above as a companion to the Full Environmental Assessment Form (6 NYCRR Part 617.20 - Appendix B) completed by GOSR as part of an independent review as an Involved Agency, with consideration of Criteria for Determining Significance listed in 6 NYCRR 617.7.

A. Project and Sponsor Information

- No supplemental information

B. Government Approvals

Approvals (required and/or received) (See Attachment B1_NYSDEC Permit Response):

- New York State Department of Environmental Conservation (NYSDEC): State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges
- NYSDEC: Article 15-Protection of Waters Permit
- NYSDEC: Section 401 Water Quality Certification
- U.S. Army Corps of Engineers (USACE): Section 404 of the Clean Water Act Permit

Funding

- New York State Homes and Community Renewal (NYSHCR), Governor's Office of Storm Recovery (GOSR) – Community Development Block Grant - Disaster Recovery (CDBG-DR) Funds

C. Planning and Zoning

The Project site is located within the Upper Susquehanna Major Drainage Basin, which is a part of the larger Susquehanna River Basin. The Susquehanna River is approximately 444 miles and drains 27,500 square miles across New York, Pennsylvania, and Maryland before draining into the Chesapeake Bay. The Upper Susquehanna River Basin covers approximately 4,520 square miles in the southern tier of New York. The Chenango River, which Smith Hill Creek discharges to, is one of the four major New York State (NYS) tributary watersheds to the Susquehanna River.

The Project site is almost entirely zoned as Residential (R). A small portion of the western-most and northern-most stretches of the Project site are zoned as Agricultural (A). The portion of the Project site along Norton Drive and the eastern portion of Wallace Road are zoned as Planned Development Commercial (PD-C). The proposed Project is allowable under this zoning as it is consistent with the current land use on the property and the adopted town comprehensive plan. The proposed Project also falls under the 2014 Town of Chenango New York Rising Community Reconstruction Plan (NYRCR), and has strong support from the Committee and the Town of Chenango.

The Project is not located within a coastal resource area (See Attachment B2_Coastal Zones).

D. Project Details

D.1. Proposed Potential Development

D.1.a. General nature of proposed action

The proposed Project consists of upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek (See Attachment A3). This Project will protect this vulnerable area from experiencing the type of flooding and devastation caused by Hurricane Irene and Tropical Storm Lee (See Attachment A2).

D.1.b. Total acreage

The proposed storm water management improvements to Smith Hill Creek will occur where it intersects with Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road, totaling a 4.8-acre area (See Attachment A1). Approximately 0.726 acres of the Project area is covered with impervious surfaces. The proposed features that would increase the amount of impervious surface include increased culvert sizes at Smith Hill Road, Smith Hill Driveway, Hillside Drive, and Norton Drive Extension; Norton Drive driveway; Norton Drive at Front Street; and the new Wallace Road infiltration system. These elements would increase the impervious surfaces along Smith Hill Creek, Wallace Road, and Norton Drive to approximately 0.783 acres, an increase of 0.06 acres.

D.1.h. Impoundment of any liquids

The proposed Project involves the impoundment of liquids in order to construct the underground stormwater infiltration system. The principal sources of the water will be from Smith Hill Creek. Approximately 0.0431 million gallons and 0.025 acres of surface area will be impounded through the construction of two concrete modules to be buried below the bottom of the stream channel. Each module will be 3 feet in height and 102 feet in length.

D.2. Project Operations

D.2.a. Excavation, mining or dredging during construction or operations

The proposed Project will require excavation for the installation of the new box culverts, berms/cuts, and infiltration system. Approximately 2,600 cubic yards of earth, pavement subbase, and asphalt courses will be excavated during the construction period. Excavated materials will either be re-used for fill or disposed of off-site at a disposal location compliant with current rules and regulations. An approximately 2.7-acre area will be excavated with a maximum depth of 10 feet. Approximately 1.5 acres will be worked on at any one time. All excavated areas that are to remain pervious will have turf established as soon as practical during the course of construction. No onsite dewatering or processing of excavated materials will be required.

D.2.b. Alteration or encroachment into any existing waterbody

After review of available databases, no mapped National Wetlands Inventory (NWI) or NYSDEC wetlands are located within or immediately adjacent to the proposed Project area (See Attachment B3_Freshwater Wetlands). However, Smith Hill Creek is treated as a wetland under 24 CFR Part 55. The NYSDEC has classified Smith Hill Creek as a Class C for waters supporting fisheries and suitable for non-contact activities and would not be considered a protected stream (Regulation ID: 931-149) (See Attachment B4_Environmental Resource Mapper Information). Proposed Project activities

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

directly involving encroachment on Smith Hill Creek include culvert improvements along Wallace Road, Hillside Drive, Norton Drive and Smith Hill Road; increasing the cross sectional area of the channels; installing debris catchment structures; and installing trash racks along the upper portions of the Creek. The channel will be cleaned and widened in areas and will involve the removal of aquatic vegetation in order to alter the channel width. It is estimated that approximately 0.025 acres of aquatic vegetation will be removed along with soil/sediments during excavation. Stream banks will be reseeded with native seed mix and adjacent residential lawns will be restored to match existing conditions; therefore, the aquatic vegetation will be restored to approximately 0.025 acres.

Although the Project is located within a wetland, the Project is a functionally dependent use and constitutes a replacement-in-kind of a previously existing structure. In accordance with 24 CFR Part 55, Floodplain Management and Protection of Wetlands, a 5-step wetland analysis was done for the Project to identify potential impacts to Smith Hill Creek and methods to minimize the potential adverse impacts in a wetland. The analysis concluded that the Project would not alter the survival and quality of the wetlands. In a letter dated June 2, 2016, the NYSDEC stated that an Article 15, Protection of Waters Permit, pursuant to 6NYCRR Part 608 is required for this stream and may require a permit from the USACE (See Attachment B1). A joint application for disturbance of a stream was submitted to the NYSDEC and the USACE. The Project would adhere to all applicable conditions in the permit.

D.2.e. Stormwater runoff

The proposed Project is a stormwater control facility. Stormwater protection measures would include upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek (See Attachment B5_SSA Coordination Letter). Smith Hill Creek drains into the existing New York State Department of Transportation (NYSDOT) stormwater system along the east side of Front Street (US Route 11), and ultimately into the Chenango River. New impervious surface would be created on 0.06 acres of the approximately 4.8-acre Project site (See Attachment A3). Construction and operation of the stormwater control system and all Project construction would be in accordance with Section 402 of the Clean Water Act that requires authorization by a National Pollutant Discharge Elimination System (NPDES) permit or by a state permit program. New York's SPDES is a NPDES-approved program. Coverage under the NYSDEC GP-15-002 permit would be obtained prior to the commencement of construction activity.

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

E.1.a. Existing land uses

The proposed Project area is located along Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road. The area in the general vicinity can be described as primarily residential, with minimal commercial development including shops, restaurants, and banking centers to the north of Norton Drive and to the east of the overall Project area along Front Street. Smith Hill Creek is a tributary of the Chenango River, which is located approximately 1,200 feet east of the proposed Project site (See Attachment A1).

E.1.b. Land uses and covertypes

Recent aerial imagery shows the current land cover of the 4.8-acre Project area to be a mix of impervious surfaces, forest cover, grassland, and surface water. There will be a slight increase in the

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

amount of surface water associated with the widening of Smith Hill Creek, which will decrease the amount of grassland.

E.1.d. Facilities serving children, the elderly or people with disabilities

Lourdes Family Practice is located immediately adjacent to the north end of the Project site, where it crosses Front Street from Norton Drive. It is a primary health care facility offering medical care to all ages. Lourdes Health Support, LLC is located approximately 1,350 feet north of the Project area along Front Street (See Attachment B6_Lourdes Facilities). It is a home medical equipment provider specializing in respiratory care.

E.1.g. Previous hazardous waste disposal

Based on a records search for the proposed Project area and adjoining area no hazardous wastes are associated with the Project. A search of the NYSDEC Bulk Storage Program Database identified 25 petroleum bulk storage facilities within one mile of the Project site (See Attachment B7_Bulk Storage Facilities). Two bulk storage sites are located adjacent to the Project area. Boland's Topsoil is located at 301 Smith Hill road, approximately 300 feet east of Smith Hill Creek. Two 2,000-gallon underground storage tanks (USTs), one that contained diesel fuel and one that contained gasoline, were removed in 2006. Jai Ravi Inc. is also adjacent to the Project area at 1065 Front Street, approximately 375 feet north of Wallace Road. Four USTs (three 8,000-gallon gasoline/ethanol tanks and one 4,000-gallon diesel tank) are in service at the facility. One 550-gallon that contained #2 fuel oil has been removed. The location of these active USTs and any fuel lines would be established prior to Project-related disturbance. Project would not disturb these tanks, and they would not pose a hazard to the Project or the surrounding community.

E.1.h. Potential contamination history

A search of the NYSDEC Remedial Site Database containing records of the sites being addressed under one of Division of Environmental Remediation (DER) remedial programs (State Superfund, Brownfield Cleanup, Environmental Restoration and Voluntary Cleanup, the Registry of Inactive Hazardous Waste Disposal Sites, and Institutional and Engineering Controls) identified five facilities within one mile of the Project. Two State Superfund sites (CAE Electronics Hillcrest Facility and Binghamton Rifle Range), one Brownfield Cleanup site (TCMF Hillcrest Facility), and one Voluntary Cleanup site (CAE Electronics Hillcrest Facility) are located on the opposite side of the Chenango River. CAE Electronics Facility is listed as a State Superfund Site and a Voluntary Cleanup Site. An additional Voluntary Cleanup site (the former Broome Community College firing range) is located approximately 4,800 feet to the south of the Project on the same side of the Chenango River (See Attachment B8_Remediation Sites). The TCMF Hillcrest Facility released wastewater into drywells on-site that contained metals such as cadmium, chromium, nickel and zinc. The former Broome Community College firing range was contaminated by heavy metals (primarily lead). Remediation has been completed at these two sites; therefore, these sites do not present a threat to the environment or human health. The CAE Electronics Hillcrest Facility is a former manufacturing facility that was contaminated by heavy metals and volatile organics, which were found in the soil beneath the on-site outfall structures. Groundwater dissipating west and northwest from the outfall structures of the site has been contaminated with chromium and Trichloroethylene (TCE). The site is being investigated pursuant to the State Superfund program due to groundwater contamination and the potential for soil vapor intrusion to the adjacent neighborhood. However, exposures to contaminated groundwater and soil are not anticipated as the nearby neighborhood obtains water from a public water supply and the contaminated soil has been remediated. The Binghamton Rifle Range is a former small arms range and is currently a privately owned residence. No munitions or explosives of concern (MEC) were

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

discovered within the munitions response site (MRS). However, antimony, copper, and lead were found in soil samples at concentrations that exceeded the respective calculated background and the human health screening values. As further information becomes available at this site, it will be reviewed by the New York State Department of Health (NYSDOT) to determine if site contamination presents any concerns to public health.

The Project would not result in the exposure of people or sensitive environmental resources to the facilities identified in these databases as the remediation sites are located approximately 4,000 feet or greater from the Project site. Therefore, ground disturbance associated with the Project would not impact the remediation sites identified above.

E.2. Natural Resources On or Near Project Site

E.2.a. Depth to bedrock

The site is comprised of Alluvial land, 0 to 3 percent slopes (Ad) (8.8 percent), Chenango and Howard gravelly loams, 0 to 5 percent slopes (ChA) (35.3 percent), Chenango and Howard gravelly loams, 5 to 15 percent slopes (ChC) (21.8 percent), Bath channery silt loam, 15 to 25 percent slopes (MhD) (23.1 percent), Unadilla silt loam, 0 to 5 percent slopes (UnB) (4.1 percent), and Wayland soils complex, 0 to 3 percent slopes and frequently flooded (Wd) (6.9 percent). These soil types have a depth to restrictive feature of more than 6.5 feet with the exception of MhD, which has a depth to fragipan of 2.2 to 3.2 feet (See Attachment B9_Soil Report).

E.2.c. Predominant soil types

The site is comprised primarily of Chenango and Howard gravelly loams (ChA and ChC) and Bath channery silt loam (MhD) (See Attachment B9).

E.2.d. Depth to water table

Chenango and Howard gravelly loams (ChA and ChC) and Unadilla silt loam (UnB) has a depth to water table of more than 6.5 feet; Bath channery silt loam (MhD) has a depth to water table of 2 to 3 feet; Alluvial land (Ad) has a depth to water table of 0 to 1 feet; and Wayland soils complex (Wd) has a depth to water table of 0 to 0.5 feet (See Attachment B9).

E.2.e. Drainage status of project site soils

The natural drainage class of Chenango and Howard gravelly loams (ChA and ChC), Bath channery silt loam (MhD), and Unadilla silt loam (UnB) is well drained, which collectively comprise 84.3 percent of the Project area. The natural drainage class of Alluvial land (Ad) is poorly drained, and the natural drainage class of Wayland soils complex (Wd) is poorly drained to very poorly drained, which collectively comprise 15.7 percent of the Project area (See Attachment B9).

E.2.f. Proposed action site with slopes

The Project area is on land that slopes from the west to the east toward the Chenango River. Project site slopes range from 0 to 25 percent. The slopes of Chenango and Howard gravelly loams, ChA is 0 to 5 percent, and ChC is 5 to 15 percent. Bath channery silt loam (MhD) has 15 to 25 percent slopes. Alluvial land (Ad) and Wayland soils complex have 0 to 3 percent slopes. Unadilla silt loam (UnB) has 0 to 5 percent slopes (See Attachment B9).

E.2.h. Surface water features

Proposed Project activities directly involving encroachment on Smith Hill Creek include culvert improvements along Wallace Road, Hillside Drive, Norton Drive and Smith Hill Road; increasing the cross sectional area of the channels; installing debris catchment structures; and installing trash racks along the upper portions of the Creek. Smith Hill Creek is treated as a wetland under 24 CFR Part 55. The NYSDEC has classified Smith Hill Creek as a Class C for waters supporting fisheries and suitable for non-contact activities and would not be considered a protected stream (Regulation ID: 931-149) (See Attachment B4).

E.2.k. 500 year Floodplain

A portion of the Project area along Norton Drive at Front Street is in Zone B, between the limits of the 100-year floodplain and the 500-year floodplain, subject to the 100-year flood to depths or less contributing drainage of less than one square mile, or protected by levees (See Attachment B10_Flood Zones).

E.2.l. Primary, Principal or Sole Source Aquifer

The Project site is located within a NYSDEC-regulated principal and primary aquifer. Principal aquifers are known to be highly productive or whose geology suggests abundant water supply, but which are not intensively used as sources of water supply by major municipal systems at the present time. Primary aquifers are highly productive aquifers presently utilized as sources of water supply by major municipal water systems.

It is also located within an Environmental Protection Agency (EPA) Sole Source Aquifer (SSA), the Clinton Street Ballpark SSA (See Attachment B11_Sole Source Aquifers). Sole source aquifers supply at least 50 percent of the drinking water consumed in the area overlying that aquifer. Consultation with the EPA was initiated on February 3, 2017 (See Attachment B5). On February 22, 2017, the EPA concurred that the Project would not pose significant threats to either the aquifer or public health and, therefore, satisfies the requirements of Section 1424(e) of the Safe Drinking Water Act (SDWA) with the following suggestions to minimize environmental impacts:

- Implement diesel controls, cleaner fuel, and cleaner construction practices for on-road and off-road equipment used for transportation, soil movement, or other construction activities;
- Utilize Low Impact Development (LID) principles such as minimizing effective imperviousness to create site drainage, and the planting of native and non-invasive vegetation on the Project site for stormwater management purposes;
- Encourage cost-efficient, environmentally friendly landscaping and;
- Incorporate energy-efficient technologies (See Attachment B12_SSA Response).

E.2.m. Predominant wildlife species

White-tailed deer, gray squirrels, cottontail rabbits, ruffed grouse, ring-necked pheasants, woodcocks, and wild turkeys are the common wildlife species for this region.

E.2.n. Designated significant natural community

According to available databases, there are no records of significant natural communities within Project site or its immediate vicinity (See Attachment B4). Consultation was initiated on January 11,

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

2017 with the New York Natural Heritage Program (NYNHP) to confirm this finding (See Attachment B13_NYNHP Consultation). A response was received on January 24, 2017 determining that there are no records of significant natural communities at the Project site or in its immediate vicinity (See Attachment B14_NYNHP Response).

E.2.o. Federal or NYS listed threatened or endangered species

The US Fish and Wildlife Service (USFWS) online review process, completed on April 27, 2016 using the Information, Planning, and Conservation (IPaC) planning tool identified one (1) federal threatened species, the northern long-eared bat (NLEB) (*Myotis septentrionalis*), and several migratory bird species, including the bald eagle (*Haliaeetus leucocephalus*), that the Project could potentially impact (See Attachment B15_IPaC Report). An updated official species list provided on December 15, 2016 also identified the same threatened species (See Attachment B16_Official Species List).

Broome County is listed as one of the U.S. counties within 150 miles of positive counties/districts experiencing White-Nose Syndrome per the Final 4(d) Rule. The Project area is not within 0.25 miles of known or assumed hibernacula for the NLEB, nor are there documented maternity roosts within 150 feet of the Project area. The main impact of concern for bats is the cutting or removal of potential hibernacula or roost trees. The proposed Project would result in the removal of small trees along the banks of Smith Hill Creek potentially during the active season within the range of potential occurrence of NLEB habitat. The removal will be strived to occur between October 31 and March 31, which is outside of the active season for bats. However, due to construction schedules, trees may need to be removed during the active season. Trees to be protected from cutting will be clearly marked to prevent unnecessary clearing. The bald eagle has year-round habitat in Broome County that could be affected by activities in the Project area. However, the Project area is not located within the vicinity of documented bald eagle breeding, and removal of these trees would not significantly affect foraging bald eagle as extensive areas of suitable, undisturbed foraging habitat are available nearby the site.

On March 8, 2017 GOSR provided the USFWS notice of the proposed Project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c) (See Attachment B17_USFWS Consultation). GOSR determined that the proposed Project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule. The notice stated that if the USFWS does not respond within 30 days from submittal of the notice, then GOSR may presume that its determination for the project is informed by the best available information and its Project responsibilities under Section 7 of the ESA have been fulfilled. USFWS has not objected to the determination. GOSR has determined that the Project would have no significant adverse impact on migratory birds or their habitat and bald eagles.

Consultation with the NYNHP occurred on January 11, 2017 to request information on any records of occurrence of NYS-listed species in the vicinity of the Project site, including the NLEB, in accordance with the 4(d) Rule for the NLEB (Federal Register January 14, 2016) (See Attachment B13). A response was received on January 24, 2017 indicating that there are no records of rare or state-listed animals or plants at the Project site or in its immediate vicinity (See Attachment B14).

E.2.p. NYS rare species or species of special concern

No NYS rare species or species of special concern were identified during the database research. The NYNHP confirmed this finding (See Attachment B14).

E.3. Designated Public Resources On or Near Project Site

E.3.b. Highly productive soils

Chenango and Howard gravelly loams (ChA) and Unadilla silt loam (UnB) meet the criteria for Prime Farmland, encompassing approximately 1.9 acres of the 4.8-acre Project area. Chenango and Howard gravelly loams (ChC) meets the criteria for Farmland of Statewide Importance, encompassing approximately 1.1 acres of the 4.8-acre Project area (See Attachment B9 and Attachment B18_Protected Soils). The Project area would be disturbed during construction but would return to its existing land use once it is completed. The area is previously disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. It is not in active cultivation. This amount of land falls under the Natural Resources Conservation Service (NRCS) small acreage exemption of 3 acres or less. According to Part 523.11 E of the Farmland Protection Policy Act (FPPA) Manual, an AD 1006 is not required for this Project, and it is exempt.

E.3.e. Listed or nominated building, archeological site or district by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places

Based on review of available databases, no listed or nominated building, archeological site, or district by the NYS Board of Historic Preservation for inclusion of the State or National Register of Historic Places (NRHP) is located within the Project site. Review of the Cultural Resource Information System (CRIS) website indicated that there are several buildings located to the east of the Project site along Front Street that are eligible or undetermined for listing under NRHP. Consultation with the New York State Historic Preservation Office (SHPO) and the Division for Historic Preservation (DHP) in the Office of Parks, Recreation and Historic Preservation (OPRHP) was initiated through CRIS in a letter dated March 29, 2017. OPRHP was notified of an update to the area of potential effect on April 23, 2017, and a revised consultation letter was submitted to OPRHP on April 19, 2017 (See Attachment B19_SHPO Consultation). A response from SHPO was received on May 1, 2017, indicating that it had determine that there would be no historic properties would be affected by the proposed Project (See Attachment B20_SHPO Response).

In addition, representatives of the Delaware Nation, Delaware Tribe of Indians, Onondaga Nation, Seneca-Cayuga Nation, Tuscarora Nation, Oneida Indian Nation, The Mohawk Nation, St. Regis Mohawk Tribe, and Stockbridge-Munsee Community, Band of Mohicans were sent a letter on March 29, 2017, with the site description, photographs, site plan, and map. Each was sent an updated letter with the revised site plan on April 20, 2017 (See Attachment B21_Tribal Consultation Onondaga Nation). Only the Stockbridge-Munsee Community, Band of Mohicans; Delaware Nation; and Oneida Indian Nation replied. On April 27, 2017, the Stockbridge-Munsee Community, Band of Mohicans stated that the Project is not in their area of interest (See Attachment B22_Stockbridge-Munsee Community, Band of Mohicans Response). On April 24, 2017, the Delaware Nation indicated that with the information submitted they can concur at present with this proposed plan. They identified three main concerns: keeping a 50-100-foot (at least) area of protection around known sites; maintaining the buffer area and not allowing heavy equipment to impact these areas (compression is an issue); and if something is found, halting all work, contacting them within 48 hours and when work resumes discussion of a monitor if needed (See Attachment B23_Delaware Nation Response). On May 19, 2017, the Oneida Indian Nation indicated their concurrence with the assessment that the Project will likely result in No Historic Properties Affected, however, the Nation requests notification and the opportunity to respond to any inadvertent discoveries of historic properties or human remains if encountered during Project activities (See Attachment B24_Oneida Indian Nation Response).

E.3.f. Sensitive for archeological sites

The Project site has been identified as being sensitive for archaeological sites, which indicates that the Project site contains an archaeologically sensitive resource designated on the SHPO archaeological site inventory.

E.3.h. Five miles radius of scenic or aesthetic resources

The Project site is within five miles of the following officially designated and publicly accessible federal, state, or local scenic or aesthetic resource:

- Chenango Valley State Park (New York State Historic Places, New York State Parks)

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

List of Sources, Agencies and Persons Consulted

Federal Emergency Management Agency

<https://msc.fema.gov/portal/search?AddressQuery=>

New York State Department of Agriculture & Markets

<http://www.agriculture.ny.gov/AP/agservices/agricultural-districts.html>

<http://www.agriculture.ny.gov/AP/agservices/SOILCOUNTY.htm>

New York State Department of Environmental Conservation

<http://gis.ny.gov/gisdata/inventories/member.cfm?organizationid=529&nysgis=>

<http://www.dec.ny.gov/animals/7494.html>

<http://www.dec.ny.gov/animals/29392.html>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=3>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/index.cfm?pageid=4>

<http://www.dec.ny.gov/chemical/32501.html>

http://www.dec.ny.gov/docs/permits_ej_operations_pdf/visual2000.pdf

http://www.dec.ny.gov/docs/wildlife_pdf/wetart24a.pdf

<http://www.dec.ny.gov/gis/erm/>

<http://www.dec.ny.gov/imsmaps/facilities/viewer.htm>

<http://www.dec.ny.gov/natureexplorer/app/>

<http://www.dec.ny.gov/permits/6184.html>

<http://www.dec.ny.gov/permits/53826.html>

<http://www.dec.ny.gov/lands/48020.html>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/haz/details.cfm?&ProgNo=C704045>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/haz/details.cfm?&ProgNo=V00061>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/haz/details.cfm?&ProgNo=704015>

<http://www.dec.ny.gov/cfm/xtapps/derexternal/haz/details.cfm?&ProgNo=V00298>

New York State Department of Transportation

<https://www.dot.ny.gov/tdv>

New York State Natural Heritage Program

<http://www.acris.nynhp.org/>

New York Rising Community Reconstruction Plan

https://stormrecovery.ny.gov/sites/default/files/crp/community/documents/tte14114_chenango_ada-optimized.pdf

Town of Chenango

<http://townofchenango.com/wp-content/uploads/Town-of-Chenango-Comprehensive-Plan-Adopted-3-7-16.compressed.pdf>

U.S. Census Bureau, 2011 American Community Survey

<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>

United States Department of Agriculture

<https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=NY>

<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>

FULL ENVIRONMENTAL ASSESSMENT FORM PART 1 - PROJECT SETTING
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

U.S. Department of Agriculture - Natural Resources Conservation Service
<http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

U.S. Environmental Protection Agency
<http://nepassisttool.epa.gov/nepassist/entry.aspx>
<https://www.epa.gov/dwssa/map-sole-source-aquifer-locations>
<https://www.epa.gov/green-book>

U.S. Department of Fish and Wildlife
<http://ecos.fws.gov/ecos/home.action>
<http://ecos.fws.gov/ipac/>
<http://refuges.fws.gov>
<http://www.fws.gov/CBRA/Maps/Boundaries.html>
<http://www.fws.gov/CBRA/Maps/Mapper.html>
<https://www.fws.gov/wetlands/data/Mapper.html>
<http://www.rivers.gov/new-york.php>

U.S. Geological Society
<http://viewer.nationalmap.gov/viewer/>

U.S. Department of Interior – National Park Service
<http://science.nature.nps.gov/im/gis/index.cfm>
<http://www.nature.nps.gov/nnl/docs/NNLRegistry.pdf>
<http://www.nps.gov/history/nr/research/>

U.S. Department of Interior – National Wild and Scenic Rivers System
<http://www.rivers.gov/new-york.php>

ATTACHMENT C
NEW YORK STATE ENVIRONMENTAL QUALITY REVIEW
FULL ENVIRONMENTAL ASSESSMENT FORM
PART 2 – IDENTIFICATION OF POTENTIAL PROJECT IMPACTS

SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

This supplemental information has been prepared for the Project listed above as a companion to the Long Environmental Assessment Form (6 NYCRR Part 617.20 - Appendix B) completed by GOSR as part of an independent review as an Involved Agency, with consideration of Criteria for Determining Significance listed in 6 NYCRR 617.7.

1. Impact on Land

The Smith Hill Creek Stormwater Management System Project involves upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek located in the Town of Chenango on a 4.8-acre Project area. The Project would not require the acquisition of new land, change the existing land use or zoning, or alter the residential character of the community. Easements may be required for the construction that would affect the residential yards of the properties along the length of the Project. The Project is consistent with the goals and visions of the Town of Chenango comprehensive plan. The proposed Project also falls under the 2014 Town of Chenango New York Rising Community Reconstruction Plan (NYRCR), and has strong support from the Committee and the Town of Chenango. The purpose of the proposed improvements is to mitigate future system failures and associated property loss by providing secure and reliable drainage infrastructure. The proposed Project will ensure a safe and healthy environment for the local residents, businesses, and visitors.

The proposed Project area would disturb approximately 4.8 acres of residential land, existing stormwater control features, and road rights-of-way. Approximately 0.726 acres of the Project area is covered with impervious surfaces. The proposed features that would increase the amount of impervious surface include increased culvert sizes at Smith Hill Road, Smith Hill Driveway, Hillside Drive, and Norton Drive Extension; Norton Drive driveway; Norton Drive at Front Street; and the new Wallace Road infiltration system. These elements would increase the impervious surfaces along Smith Hill Creek, Wallace Road, and Norton Drive to approximately 0.783 acres, an increase of 0.06 acres.

The Project area would be disturbed during construction but would return to its existing land use once it is completed. The area is previously disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. It is not in active cultivation. Therefore, impacts on land have been determined to be minor.

3. Impacts on Surface Water

After review of available databases, no mapped National Wetlands Inventory (NWI) or New York State Department of Environmental Conservation (NYSDEC) wetlands are located within or immediately adjacent to the proposed Project area (See Attachment B3). However, Smith Hill Creek is treated as a wetland under 24 CFR Part 55. The NYSDEC has classified Smith Hill Creek as a Class C for waters supporting fisheries and suitable for non-contact activities and would not be considered a protected stream (Regulation ID: 931-149) (See Attachment B4). Proposed Project activities directly involving encroachment on Smith Hill Creek include culvert improvements along Wallace Road, Hillside Drive, Norton Drive and Smith Hill Road; increasing the cross sectional area of the channels; installing debris catchment structures; and installing trash racks along the upper portions of the Creek. The channel will be cleaned and widened in areas and will involve the removal of aquatic vegetation in order to alter the channel

FULL ENVIRONMENTAL ASSESSMENT FORM PART 2 –
IDENTIFICATION OF POTENTIAL PROJECT IMPACTS
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

width. It is estimated that approximately 0.025 acres of aquatic vegetation will be removed along with soil/sediments during excavation. Stream banks will be reseeded with native seed mix and adjacent residential lawns will be restored to match existing conditions; therefore, the aquatic vegetation will be restored to approximately 0.025 acres.

Although the Project is located within a wetland, the Project is a functionally dependent use and constitutes a replacement-in-kind of a previously existing structure. In accordance with 24 CFR Part 55, Floodplain Management and Protection of Wetlands, a 5-step wetland analysis was done for the Project to identify potential impacts to Smith Hill Creek and methods to minimize the potential adverse impacts in a wetland. The analysis concluded that the Project would not alter the survival and quality of the wetlands. In a letter dated June 2, 2016, the NYSDEC stated that an Article 15, Protection of Waters Permit, pursuant to 6NYCRR Part 608 is required for this stream and may require a permit from the U.S. Army Corps of Engineers (USACE) (See Attachment B1). A joint application for disturbance of a stream was submitted to the NYSDEC and the USACE. The Project would adhere to all applicable conditions in the permit. Best Management Practices (BMPs) include containing stormwater onsite during operations and utilizing a silt fence and other erosion prevention measures during construction. Therefore, impacts on surface water are determined to be minor.

4. Impacts on Groundwater

The Project site is located within a NYSDEC-regulated principal and primary aquifer. It is also located within an Environmental Protection Agency (EPA)-regulated Sole Source Aquifer (SSA). However, the proposed Project will not adversely impact the groundwater. The 4.8-acre site is currently disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. Approximately 0.726 acres of the Project area is covered with impervious surfaces. The amount of impervious surface would increase to approximately 0.783 acres, an increase of 0.06 acres. The proposed Project is a stormwater control facility. Stormwater protection measures would include upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek (See Attachment B5). The Project would not involve the operational use of hazardous or toxic substances. Consultation with the EPA was initiated on February 3, 2017 (See Attachment B5). On February 22, 2017, the EPA concurred that the Project would not pose significant threats to either the aquifer or public health and, therefore, satisfies the requirements of Section 1424(e) of the Safe Drinking Water Act (SDWA) (See Attachment B12). Therefore, any impacts to groundwater is determined to be minor.

5. Impact on Flooding

A portion of the Project area along Norton Drive at Front Street is in Zone B, between the limits of the 100-year floodplain and the 500-year floodplain, subject to the 100-year flood to depths or less contributing drainage of less than one square mile, or protected by levees (See Attachment B10). However, the Project is a stormwater control facility. Any impacts on flooding is determined to be minor.

7. Impacts on Plants and Animals

The US Fish and Wildlife Service (USFWS) online review process, completed on April 27, 2016 using the Information, Planning, and Conservation (IPaC) planning tool identified one (1) federal threatened species, the northern long-eared bat (NLEB) (*Myotis septentrionalis*), and several migratory bird species, including the bald eagle (*Haliaeetus leucocephalus*), that the Project could potentially impact (See Attachment B15). An updated official species list provided on December 15, 2016, also identified the same threatened species (See Attachment B16).

FULL ENVIRONMENTAL ASSESSMENT FORM PART 2 –
IDENTIFICATION OF POTENTIAL PROJECT IMPACTS
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

Broome County is listed as one of the U.S. counties within 150 miles of positive counties/districts experiencing White-Nose Syndrome per the Final 4(d) Rule. The Project area is not within 0.25 miles of known or assumed hibernacula for the NLEB, nor are there documented maternity roosts within 150 feet of the Project area. The main impact of concern for bats is the cutting or removal of potential hibernacula or roost trees. The proposed Project would result in the removal of small trees along the banks of Smith Hill Creek potentially during the active season within the range of potential occurrence of NLEB habitat. The removal will be strived to occur between October 31 and March 31, which is outside of the active season for bats. However, due to construction schedules, trees may need to be removed during the active season. Trees to be protected from cutting will be clearly marked to prevent unnecessary clearing. The bald eagle has year-round habitat in Broome County that could be affected by activities in the Project area. However, the Project area is not located within the vicinity of documented bald eagle breeding, and removal of these trees would not significantly affect foraging bald eagle as extensive areas of suitable, undisturbed foraging habitat are available nearby the site.

On March 8, 2017 GOSR provided the USFWS notice of the proposed Project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c) (See Attachment B17). GOSR determined that the proposed Project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule. The notice stated that if the USFWS does not respond within 30 days from submittal of the notice, then GOSR may presume that its determination for the project is informed by the best available information and its Project responsibilities under Section 7 of the ESA have been fulfilled. USFWS has not objected to the determination. GOSR has determined that the Project would have no significant adverse impact on migratory birds or their habitat and bald eagles.

Consultation with the New York Natural Heritage Program (NYNHP) occurred on January 11, 2017 to request information on any records of occurrence of NYS-listed species in the vicinity of the Project site, including the NLEB, in accordance with the 4(d) Rule for the NLEB (Federal Register January 14, 2016) (See Attachment B13). A response was received on January 24, 2017 indicating that there are no records of rare or state-listed animals or plants at the Project site or in its immediate vicinity (See Attachment B14).

Based on review of available databases and consultation response, no impact to endangered or threatened species is anticipated.

8. Impact on Agricultural Resources

The Project is not located within an agricultural district and the current land use of the site is not used for farming purposes. Chenango and Howard gravelly loams (ChA) and Unadilla silt loam (UnB) meet the criteria for Prime Farmland, encompassing approximately 1.9 acres of the 4.8-acre Project area. Chenango and Howard gravelly loams (ChC) meets the criteria for Farmland of Statewide Importance, encompassing approximately 1.1 acres of the 4.8-acre Project area (See Attachment B9 and Attachment B18). The Project area would be disturbed during construction but would return to its existing land use once it is completed. The area is previously disturbed and is occupied by residential land, stormwater drainage, and road rights-of-way. It is not in active cultivation. This amount of land falls under the Natural Resources Conservation Service (NRCS) small acreage exemption of 3 acres or less. According to Part 523.11 E of the Farmland Protection Policy Act (FPPA) Manual, an AD 1006 is not required for this Project, and it is exempt.

Based on these findings, no impacts on agricultural resources will occur.

9. Impact on Aesthetic Resources

The nearest park, Part Dickinson Community Park, is located approximately 1,800 feet east of the Project site, across the Chenango River. Therefore, the Project will not result in an adverse change to the current land use patterns that would affect the scenic or aesthetic resources of the surrounding area. Based on these findings, impacts to aesthetic resources is determined to be minor.

10. Impact on Historic and Archeological Resources

Based on review of available databases, no listed or nominated building, archeological site, or district by the NYS Board of Historic Preservation for inclusion of the State or National Register of Historic Places (NRHP) is located within the Project site. Review of the Cultural Resource Information System (CRIS) website indicated that there are several buildings located to the east of the Project site along Front Street that are eligible or undetermined for listing under NRHP. In addition, the Project site has been identified as being sensitive for archaeological sites, which indicates that the Project site contains an archaeologically sensitive resource designated on the New York State Historic Preservation Office (SHPO) archaeological site inventory. Consultation with the SHPO and the Division for Historic Preservation (DHP) in the Office of Parks, Recreation and Historic Preservation (OPRHP) was initiated through CRIS in a letter dated March 29, 2017. OPRHP was notified of an update to the area of potential effect on April 23, 2017, and a revised consultation letter was submitted to OPRHP on April 19, 2017 (See Attachment B19). A response from SHPO was received on May 1, 2017, which confirmed that no historic properties would be affected by the proposed Project (See Attachment B20).

In addition, representatives of the Delaware Nation, Delaware Tribe of Indians, Onondaga Nation, Seneca-Cayuga Nation, Tuscarora Nation, Oneida Indian Nation, The Mohawk Nation, St. Regis Mohawk Tribe, and Stockbridge-Munsee Community, Band of Mohicans were sent a letter on March 29, 2017, with the site description, photographs, site plan, and map. Each was sent an updated letter with the revised site plan on April 20, 2017 (See Attachment B21). Only the Stockbridge-Munsee Community, Band of Mohicans; Delaware Nation; and Oneida Indian Nation replied. On April 27, 2017, the Stockbridge-Munsee Community, Band of Mohicans stated that the Project is not in their area of interest (See Attachment B22). On April 24, 2017, the Delaware Nation indicated that with the information submitted they can concur at present with this proposed plan. They identified three main concerns: keeping a 50-100-foot (at least) area of protection around known sites; maintaining the buffer area and not allowing heavy equipment to impact these areas (compression is an issue); and if something is found, halting all work, contacting them within 48 hours and when work resumes discussion of a monitor if needed (See Attachment B23). On May 19, 2017, the Oneida Indian Nation indicated their concurrence with the assessment that the Project will likely result in No Historic Properties Affected; however, the Nation requests notification and the opportunity to respond to any inadvertent discoveries of historic properties or human remains if encountered during Project activities (See Attachment B24). Based on these findings and consultation response, impacts to historic and archeological resources is determined to be minor.

16. Impact on Human Health

All Project-related solid waste materials generated during construction would be managed and transported in accordance with New York State's solid and hazardous waste rules. No impacts on human health are anticipated to occur as a result of Project activities.

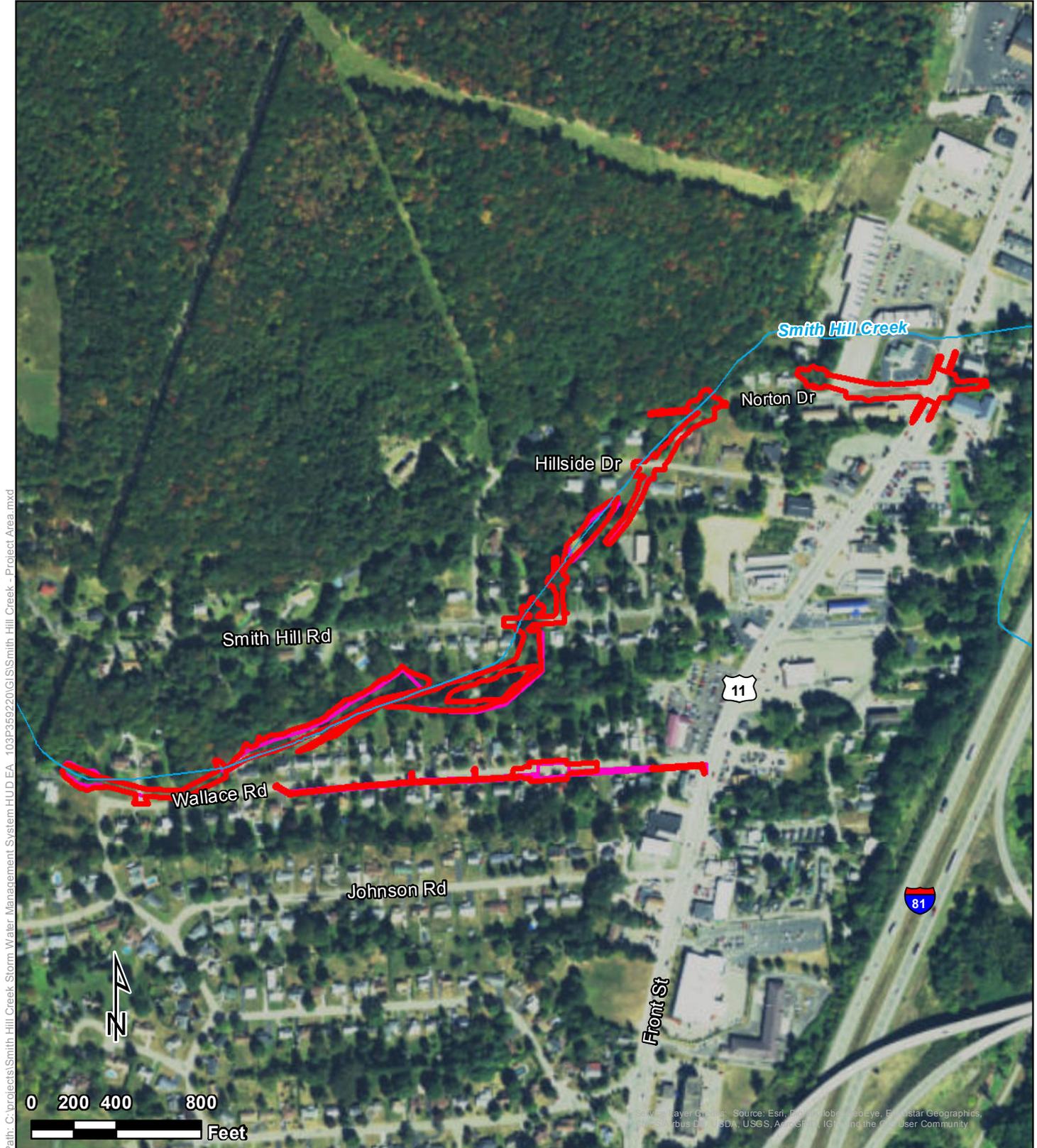
Based on a records search for the proposed Project area and adjoining area no hazardous wastes are associated with the Project. A search of the NYSDEC Bulk Storage Program Database identified 25 petroleum bulk storage facilities within one mile of the Project site (See Attachment B7). Two bulk storage

FULL ENVIRONMENTAL ASSESSMENT FORM PART 2 –
IDENTIFICATION OF POTENTIAL PROJECT IMPACTS
PROJECT: SMITH HILL CREEK STORMWATER MANAGEMENT SYSTEM IMPROVEMENT

sites are located adjacent to the Project area. Boland's Topsoil is located at 301 Smith Hill road, approximately 300 feet east of Smith Hill Creek. Two 2,000-gallon underground storage tanks (USTs), one that contained diesel fuel and one that contained gasoline, were removed in 2006. Jai Ravi Inc. is also adjacent to the Project area at 1065 Front Street, approximately 375 feet north of Wallace Road. Four USTs (three 8,000-gallon gasoline/ethanol tanks and one 4,000-gallon diesel tank) are in service at the facility. One 550-gallon that contained #2 fuel oil has been removed. The location of these active USTs and any fuel lines would be established prior to Project-related disturbance. Project would not disturb these tanks, and they would not pose a hazard to the Project or the surrounding community.

A search of the NYSDEC Remedial Site Database containing records of the sites being addressed under one of Division of Environmental Remediation (DER) remedial programs (State Superfund, Brownfield Cleanup, Environmental Restoration and Voluntary Cleanup, the Registry of Inactive Hazardous Waste Disposal Sites, and Institutional and Engineering Controls) identified five facilities within one mile of the Project: Two State Superfund sites (CAE Electronics Hillcrest Facility and Binghamton Rifle Range), one Brownfield Cleanup site (TCMF Hillcrest Facility), and one Voluntary Cleanup site (CAE Electronics Hillcrest Facility) are located on the opposite side of the Chenango River. CAE Electronics Facility is listed as a State Superfund Site and a Voluntary Cleanup Site. An additional Voluntary Cleanup site (the former Broome Community College firing range) is located approximately 4,800 feet to the south of the Project on the same side of the Chenango River (See Attachment B8). The TCMF Hillcrest Facility released wastewater into drywells on-site that contained metals such as cadmium, chromium, nickel and zinc. The former Broome Community College firing range was contaminated by heavy metals (primarily lead). Remediation has been completed at these two sites; therefore, these sites do not present a threat to the environment or human health. The CAE Electronics Hillcrest Facility is a former manufacturing facility that was contaminated by heavy metals and volatile organics, which were found in the soil beneath the on-site outfall structures. Groundwater dissipating west and northwest from the outfall structures of the site has been contaminated with chromium and Trichloroethylene (TCE). However, exposures to contaminated groundwater and soil are not anticipated as the nearby neighborhood obtains water from a public water supply and the contaminated soil has been remediated. The site is being investigated pursuant to the State Superfund program due to groundwater contamination and the potential for soil vapor intrusion to the adjacent neighborhood. The Binghamton Rifle Range is a former small arms range and is currently a privately owned residence. No munitions or explosives of concern (MEC) were discovered within the munitions response site (MRS). However, antimony, copper, and lead were found in soil samples at concentrations that exceeded the respective calculated background and the human health screening values. As further information becomes available at this site, it will be reviewed by the New York State Department of Health (NYSDOT) to determine if site contamination presents any concerns to public health.

The Project would not result in the exposure of people or sensitive environmental resources to the facilities identified in these databases as the remediation sites are located approximately 4,000 feet or greater from the Project site. Therefore, ground disturbance associated with the Project would not impact the remediation sites identified above.



Project Area

Legend
 Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

PRE-APPLICATION REPORT



SUBRECIPIENT SUBMISSION AUTHORIZATION	
AUTHORIZED BY:	<i>Harold Snopek</i>
PRINTED NAME:	HAROLD SNOPEK
TITLE:	TOWN SUPERVISOR
DATE:	<i>6/19/15</i>

PROJECT DESCRIPTION

1. SUBRECIPIENT/APPLICANT NAME AND CONTACT PERSON:

Insert all contact information for both the subrecipient/applicant and the contact person. At a minimum, include the name, mailing and physical addresses, Federal ID Number, DUNS Number, and SAMS CAGE Code of the subrecipient and the name, telephone number, and email address of the contact person.

SUBRECIPIENT/APPLICANT

Town of Chenango
1529 State Route 12
Binghamton, New York 13901
Phone: (607) 648-4809

PHYSICAL ADDRESS:

See Above

FEDERAL I. D. NUMBER: 15-6000896

DUNS NUMBER: 002-53-0587

SAMS-CAGE CODE: To be determined

CONTACT PERSON:

Harold Snopek
Town Supervisor
supervisor@townofchenango.com
Phone: (607) 648-4809
FAX: (607) 648-6533

2. PROJECT NAME AND ADDRESS:

Insert the physical address of the proposed project, or of the entity if the project is a program/planning activity. If a project does not have a physical address, then provide latitude/longitude of the project site.

PROJECT NAME: Smith Hill Creek (Wallace Road) Storm Water Management System

LOCATION: Smith Hill Creek, Wallace Road, Chenango, New York

TARGET AREA:

State the geographical area or limited clientele to benefit from the project.

The Target Area consists of Census Tract 012103, Block Group 1, located within the Town of Chenango.

LATITUDE/LONGITUDE OF PROJECT SITE:

Latitude: 42.145780

Longitude: -75.906917

3. CDBG-DR ELIGIBILITY:

State the eligible activity(ies), including the regulatory/statutory citations(s), and how this project fits that/those eligible activity(ies).

Pursuant to Section 105(a)(2), *Public Facilities and Improvements*, of the Housing and Community Development Act (HCDA); the acquisition, construction, reconstruction, or installation (including design features and improvements with respect to such construction, reconstruction, or installation that promote energy efficiency) of public works, facilities (except for buildings for the general conduct of government), and site or other improvements.

HUD MATRIX CODE:

Please provide the HUD Matrix Code

HUD Matrix Code 03I—Flood Drainage Improvements

4. NATIONAL OBJECTIVE:

State the National Objective and how the project meets that National Objective.

The national objective for the project is *Urgent Need*.

Pursuant to 24 CFR Part 570.483(d), activities under this project are “designed to meet community needs having a particular urgency[,]” thus qualifying the project under the National Objective of Urgent Need. As noted in the relevant HUD guidance, to comply with this national objective, an activity must be designed to alleviate existing conditions which the local government certifies and the state determines:

- Pose a serious and immediate threat to the health or welfare of the community;
- Are of recent origin or recently became urgent;

- The state grant recipient is unable to finance the activity on its own; and
- Other sources of funding are not available to carry out the activity.

Pursuant to a recent HUD-issued waiver, the certification requirements for this national objective have been removed for CDBG-DR funding. Instead, without the requirement of formal certification, grantees “must document how all programs and/or activities funded under the urgent need national objective respond to a disaster-related impact[.]”¹ Grantees are required to indicate that the disaster related impacts in their CDBG-DR Action Plans that the project will address through its implementation in addition to the remaining criteria listed above.

A key strategy for Town of Chenango in their New York Rising Community Reconstruction plan is to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce risk and damage to persons and property. The proposed project consists of upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek. This project will protect this vulnerable area from experiencing the type of flooding and devastation caused by Topical Storm Lee.

5. TOTAL PROJECT COSTS, SOURCE, STATUS, AND USE OF FUNDS:

PROJECT FUNDS	AMOUNT	SOURCE AND STATUS	USE
CDBG-DR	\$1,200,748.00	CDBG DR—PENDING	DESIGN & CONSTRUCTION
LOCAL FUNDS	\$0.00		
PRIVATE FUNDS	\$0.00		
OTHER STATE FUNDS	\$0.00		
FEDERAL FUNDS	\$0.00		
OTHER FUNDS	\$0.00		
TOTAL	\$1,200,748.00		

6. PROJECT DESCRIPTION:

Insert concise description here. What is the project? What is being torn down, built, provided, etc.? What are the objectives of the project? What are the expected results? Does the project involve the construction of a new facility or modifications or repairs to an existing facility? Are any historic or landmarked properties impacted? Will the project break ground? Is land acquisition involved? What are the previous and proposed uses of the impacted property or site?

The Town of Chenango is requesting \$1,200,748.00 in CDBG-DR funding for storm water management improvements to Smith Hill Creek where it intersects with Norton Drive, Hillside Drive, Smith Hill Road and Wallace Road. This creek is a manmade stream located in the Wallace Road neighborhood in the southern portion of the Town of Chenango. The creek and its associated stormwater management components consist of underground pipes of varying sizes and materials, as well as open swales and culverts that wind through a residential neighborhood and eventually empty into a Broome County-management storm water system along Front Street and then into the Chenango River.

¹ SEE FEDERAL REGISTER, VOL. 78, NO. 43 ISSUED TUESDAY, MARCH 5TH, 2013.

The project would include the following:

- Hydraulic and Hydrologic Study
- Up-sizing culverts along Wallace Road; Hillside Drive, Norton Drive and Smith Hill Road;
- Increasing the cross sectional area of the channels;
- Shortening the culvert along Wallace Road and/or replacing with an open channel;
- Installing check dams along the upstream channel to retain bed load sediments and raise the base level of the stream minimizing undercutting and erosion;
- Installing catch basins along Wallace Road;
- Installing storm water drainage piping along Wallace Road;
- Installing trash racks along upper portions of the Creek;
- Installing access road/paths as needed.

This storm water management system improvement will ideally provide significant benefits to residents and property by alleviating some of the stresses on the existing storm water management system and would help to prevent future system failures of Smith Hill Creek.

PROJECT STATUS:

Has any component (i.e., procurement of A/E, construction, etc.) of the project begun?

No Yes

If yes, please provide a description as to which project activities (1) have been completed; (2) are currently underway and the percent complete; and, (3) if the intent is to use CDBG-DR funds to pay for activities either completed or currently underway.

PROJECT CONTEXT:

Narrative should provide answers to questions such as: Is this part of a larger plan/project? If so, is it sufficiently separate from that plan or project, in the sense that it does not rely on it and does not trigger CDBG-DR requirements on other parts of the plan/project?

This is a standalone project.

BENEFICIARIES/PUBLIC BENEFIT/TARGET AREA:

Provide a narrative answering questions such as: Who are the beneficiaries? What are the benefits to these beneficiaries, and where do they live?

The project beneficiaries reside within the Target Area. The proposed project will benefit 900 people, of which 345 are low-moderate income. The public benefit will be improved drainage facilities to alleviate flooding within the Target Area.

RECOVERY RATIONALE:

Provide a narrative answering questions such as: How does this project address the impacts of Superstorm Sandy, Hurricane Irene, or Tropical Storm Lee? How does it foster the recovery of the community from these disasters?

The Smith Hill Creek storm water system completely failed during Tropical Storm Lee. The system was overwhelmed by sheet flow draining off of local hills, and became clogged with debris. This resulted in

storm water overflowing the system and flooding the Wallace Road neighborhood. Additionally, the portion of the neighborhood that stretches along Wallace Road is located in a bowl-like geographic feature with inadequate catch basins and drainage. This resulted in water getting trapped in this area and flooding roadways and approximately 50 homes, many with at least four feet of water. The proposed improvements will mitigate future system failures and associated property loss by providing an adequate storm water management system.

DESCRIPTION OF CONSTRUCTION INVOLVED:

Provide a narrative answering questions such as: How extensive is the proposed construction? Is there digging/earthwork, etc.? The purpose of this subsection is to assist in determining the level of environmental review required.

The project includes the replacement and installation of culverts, catch basins, check dams, storm water drainage piping, and trash racks and increasing cross sectional areas of the channels. As such, the project would involve significant earthwork.

DESCRIPTION OF ACQUISITION INVOLVED:

Describe the nature of any necessary land or property acquisition.

Temporary easements are anticipated for the proposed improvements.

MITIGATION/RESILIENCY PLAN:

Provide a description as to how the design of the project considers and/or proposes a mitigation/resiliency plan to minimize damage in the event of future flooding or extreme weather.

The flood prevention improvements in the Wallace Street neighborhood focus on providing secure and reliable drainage infrastructure within the Town of Chenango to ensure a safe and healthy environment for the local residents, businesses, and visitors.

7. PROJECT FEASIBILITY:

Provide a narrative as to the likelihood of the project being implemented. Is it contained in a NY Rising Community Reconstruction Plan? Does it have any necessary stakeholder support? Are there any significant regulatory hurdles to overcome, and are any problems or issues with entitlement anticipated? If the project requires additional financial support beyond the NY Rising Community Reconstruction Program funding, are those funds committed?

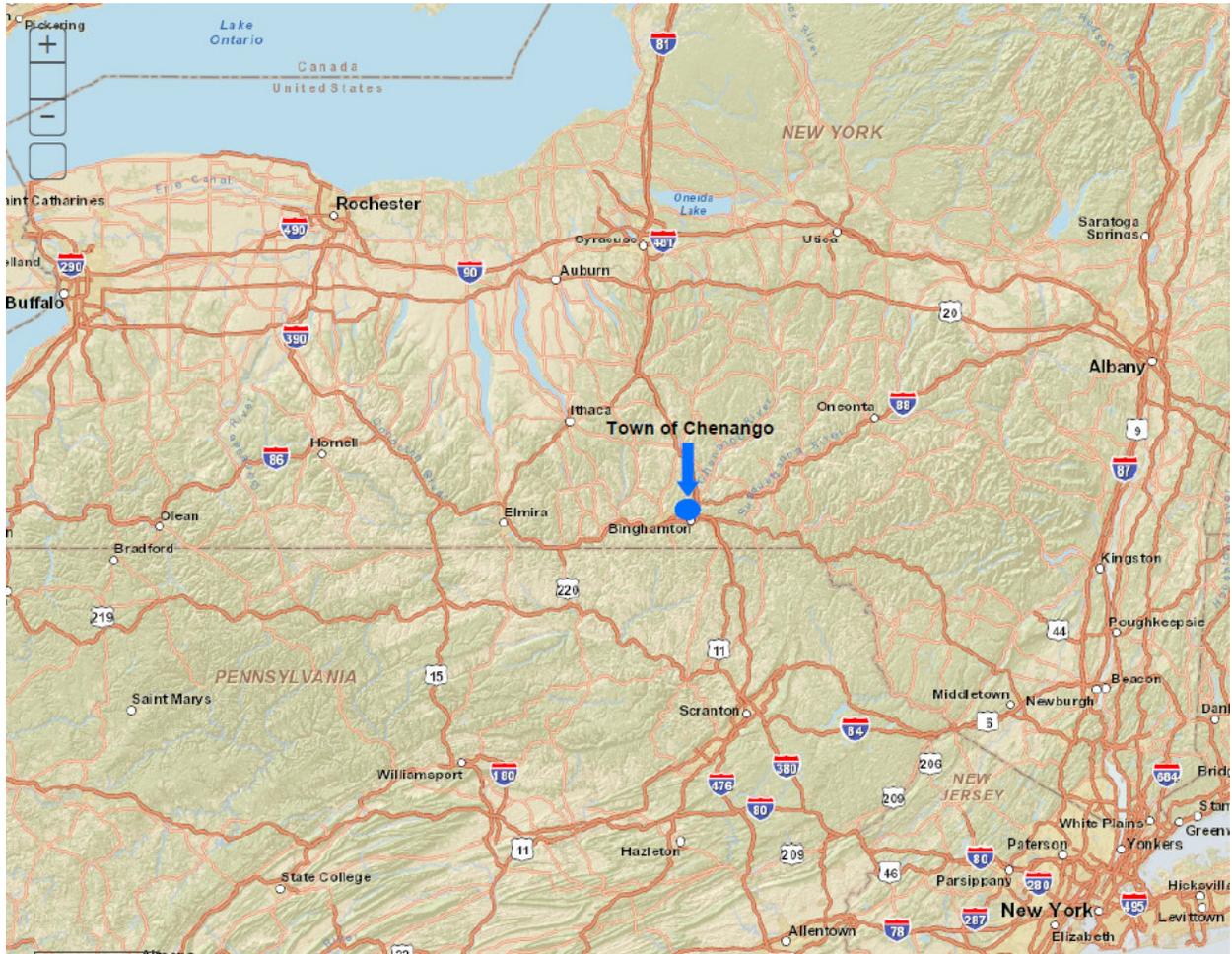
The Smith Hill Creek (Wallace Road) Storm Water Management System is a project identified in the Town of Chenango’s New York Rising Community Reconstruction plan. The implementation of this project is feasible with the CDBG-DR funds designated for investment by the NYRCR Program in the Town of Chenango.

8. CONCEPTUAL SITE PLAN:

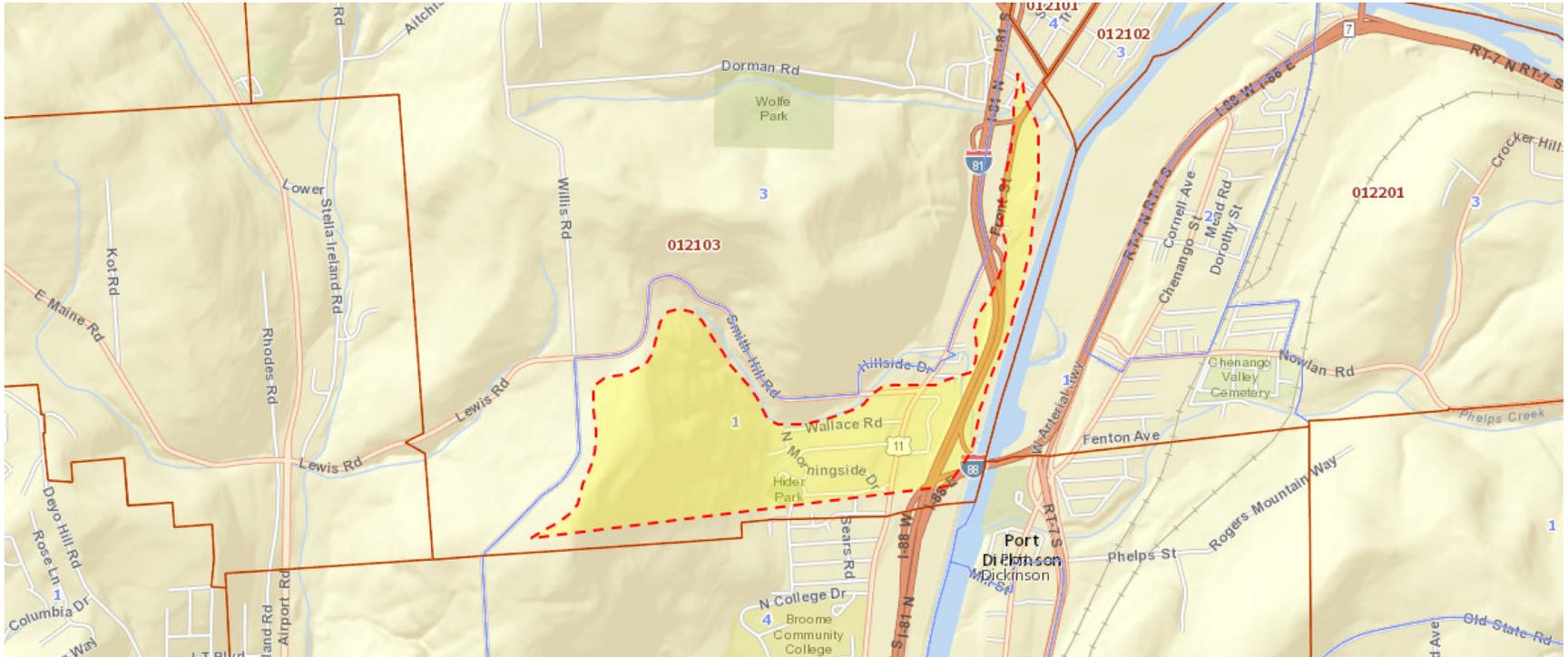
Provide a conceptual site plan depicting location of the project.

- Vicinity Map
- Target Area Map
- Project Location Map

VICINITY MAP

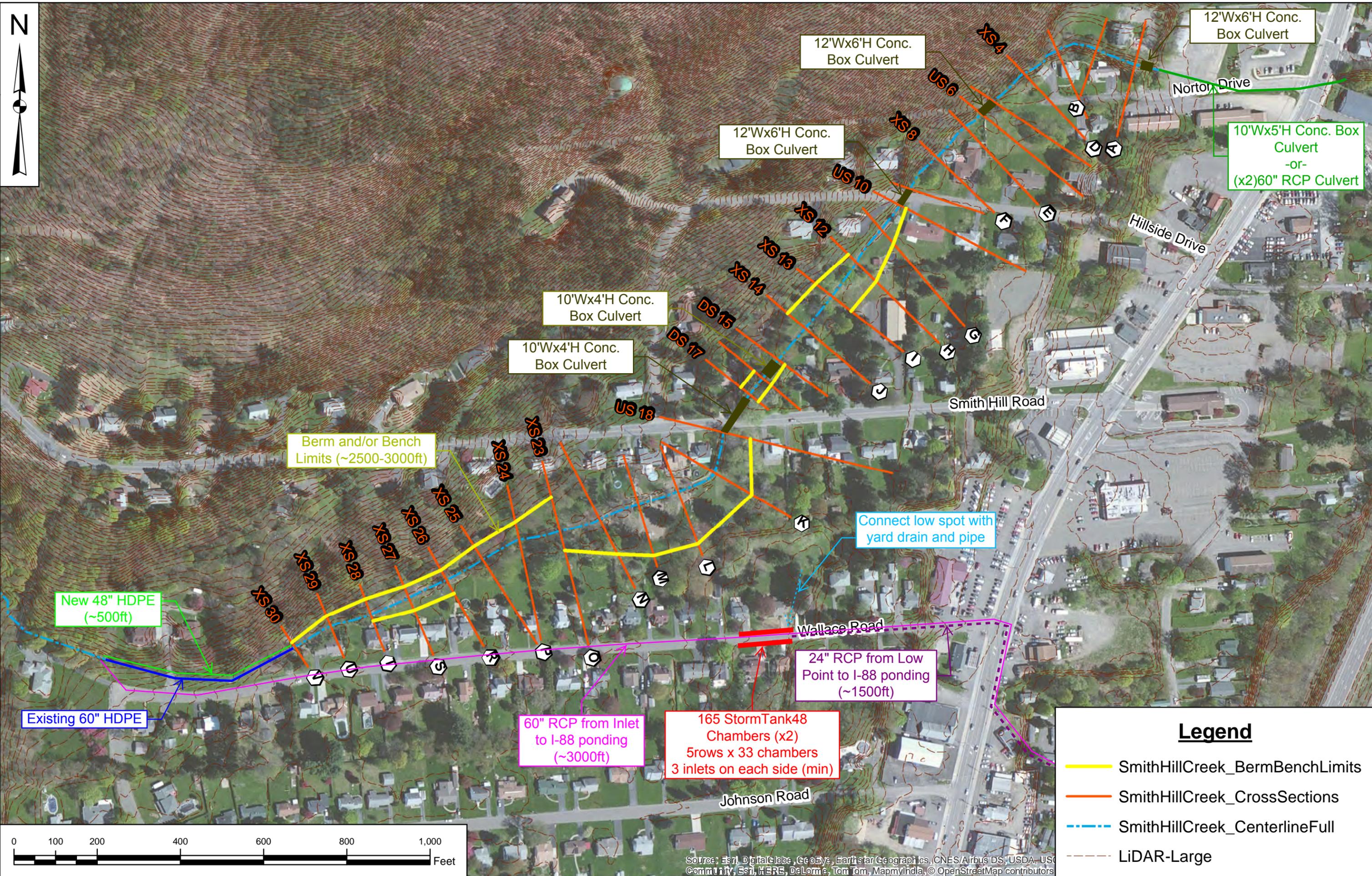


TARGET AREA MAP



PROJECT LOCATION MAP





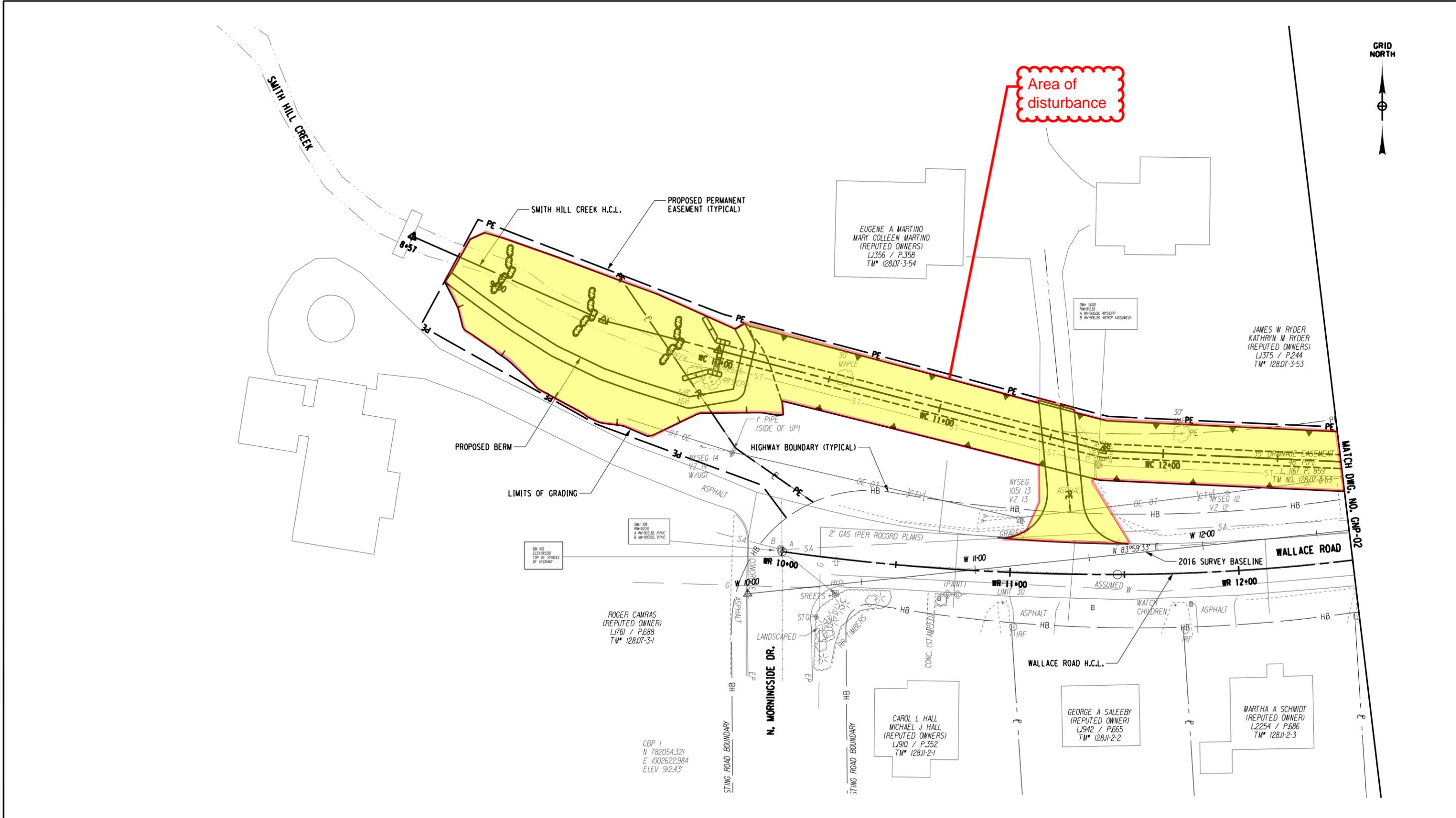
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, US Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors

Legend

- SmithHillCreek_BermBenchLimits
- SmithHillCreek_CrossSections
- SmithHillCreek_CenterlineFull
- LiDAR-Large

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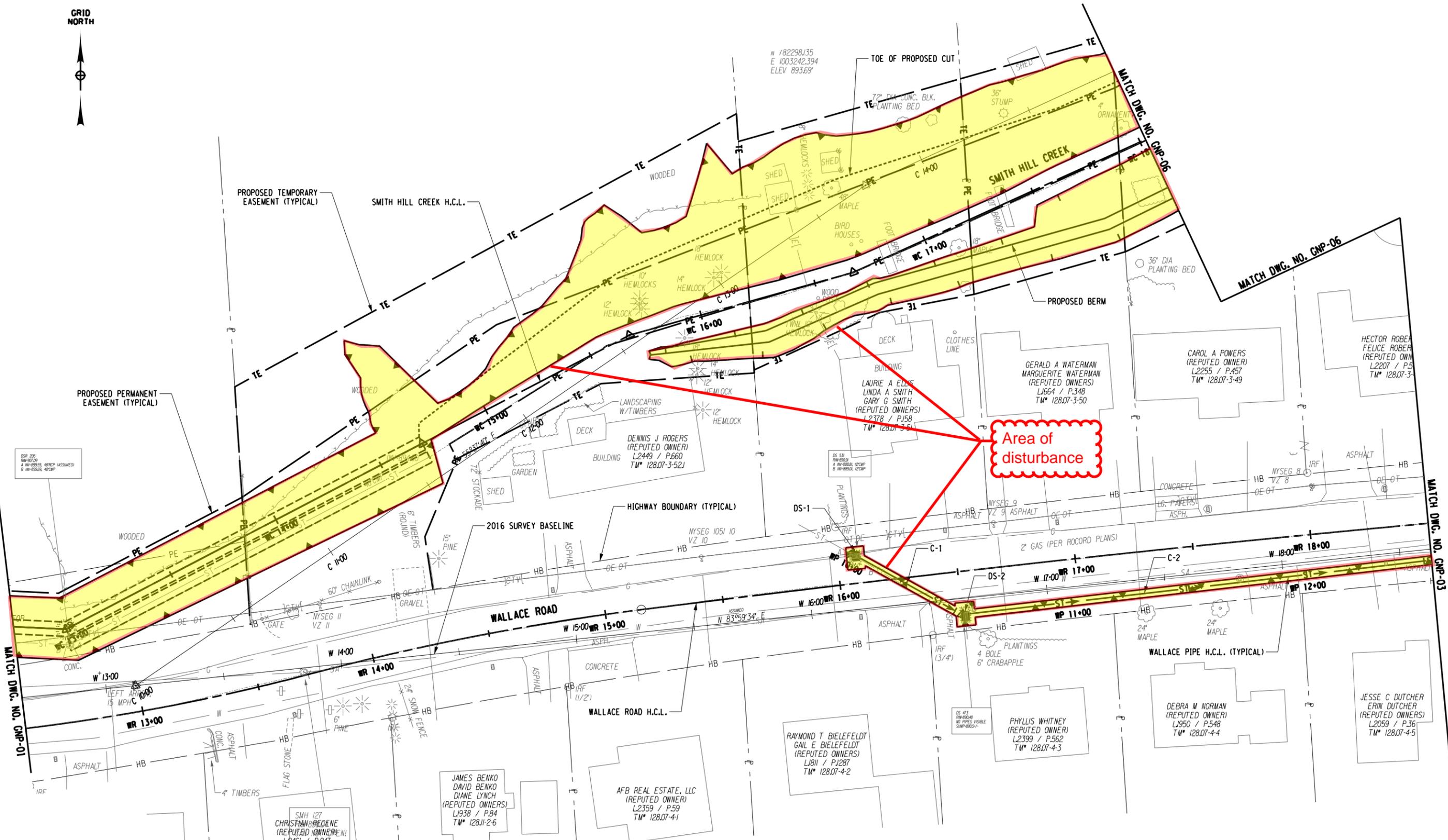
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 DESIGNED BY : JJM
 CHECKED BY : SAS
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
SCALE AS SHOWN DATE NOVEMBER 2016	DRAWING NO. GNP-01 SHEET OF

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 CHECKED BY : CJM



Area of disturbance

Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

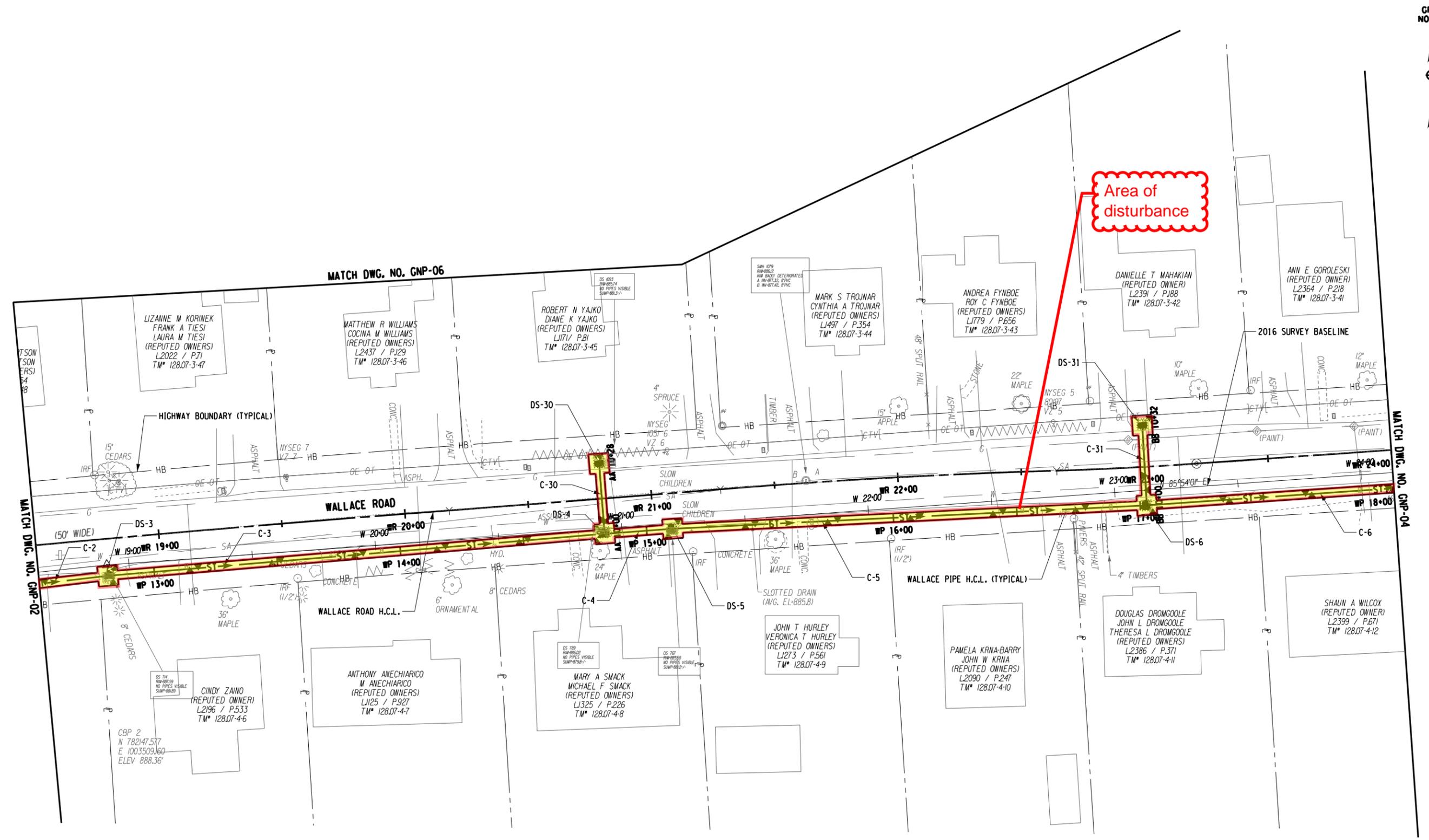
GENERAL PLAN
 WALLACE ROAD



 Woodruff Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-02
		DATE NOVEMBER 2016	SHEET OF

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 CHECKED BY: CJM



Area of disturbance



Preliminary

SCALE BAR

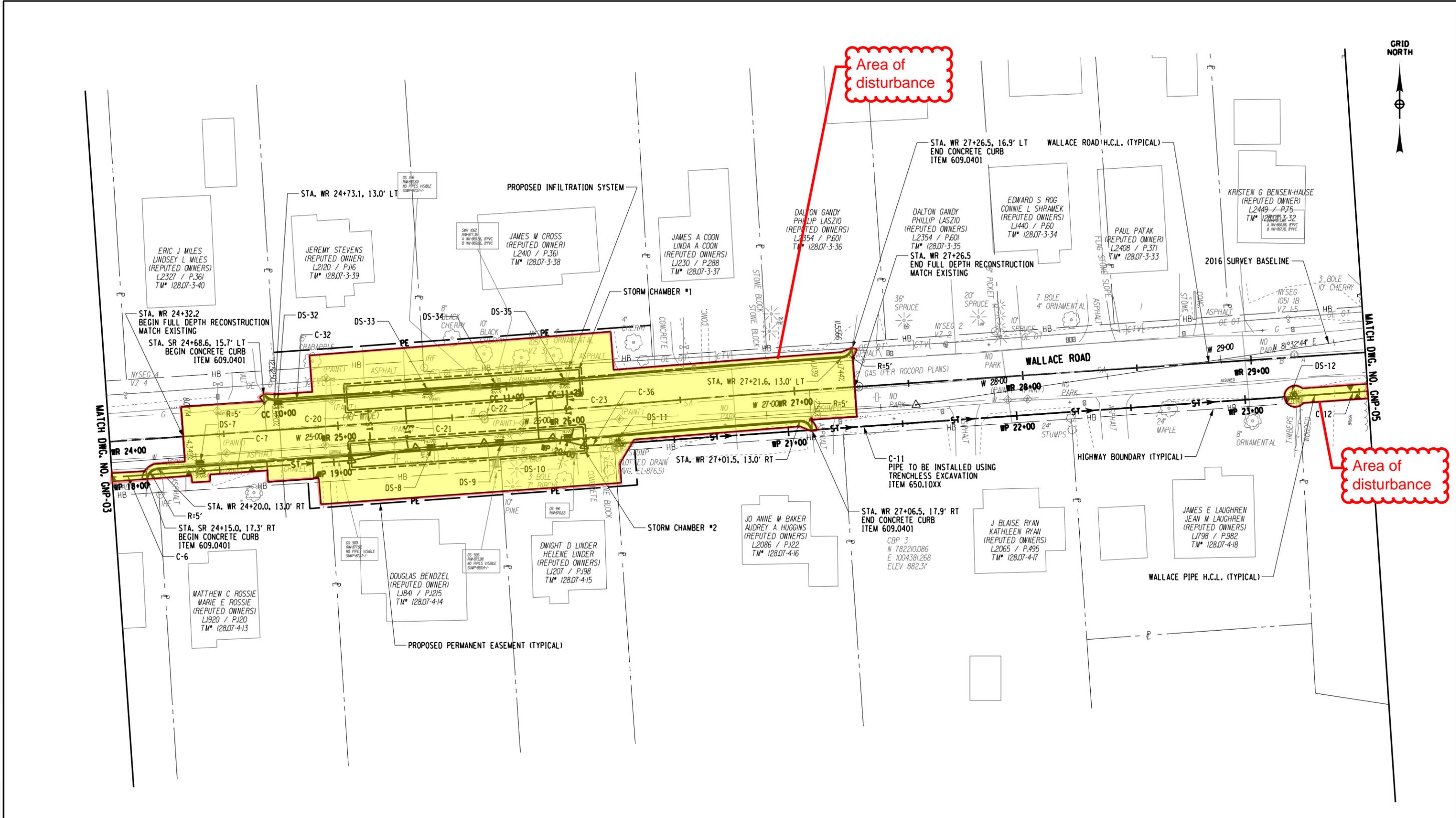
TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
WALLACE ROAD

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		DATE NOVEMBER 2016	SHEET OF

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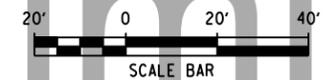
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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

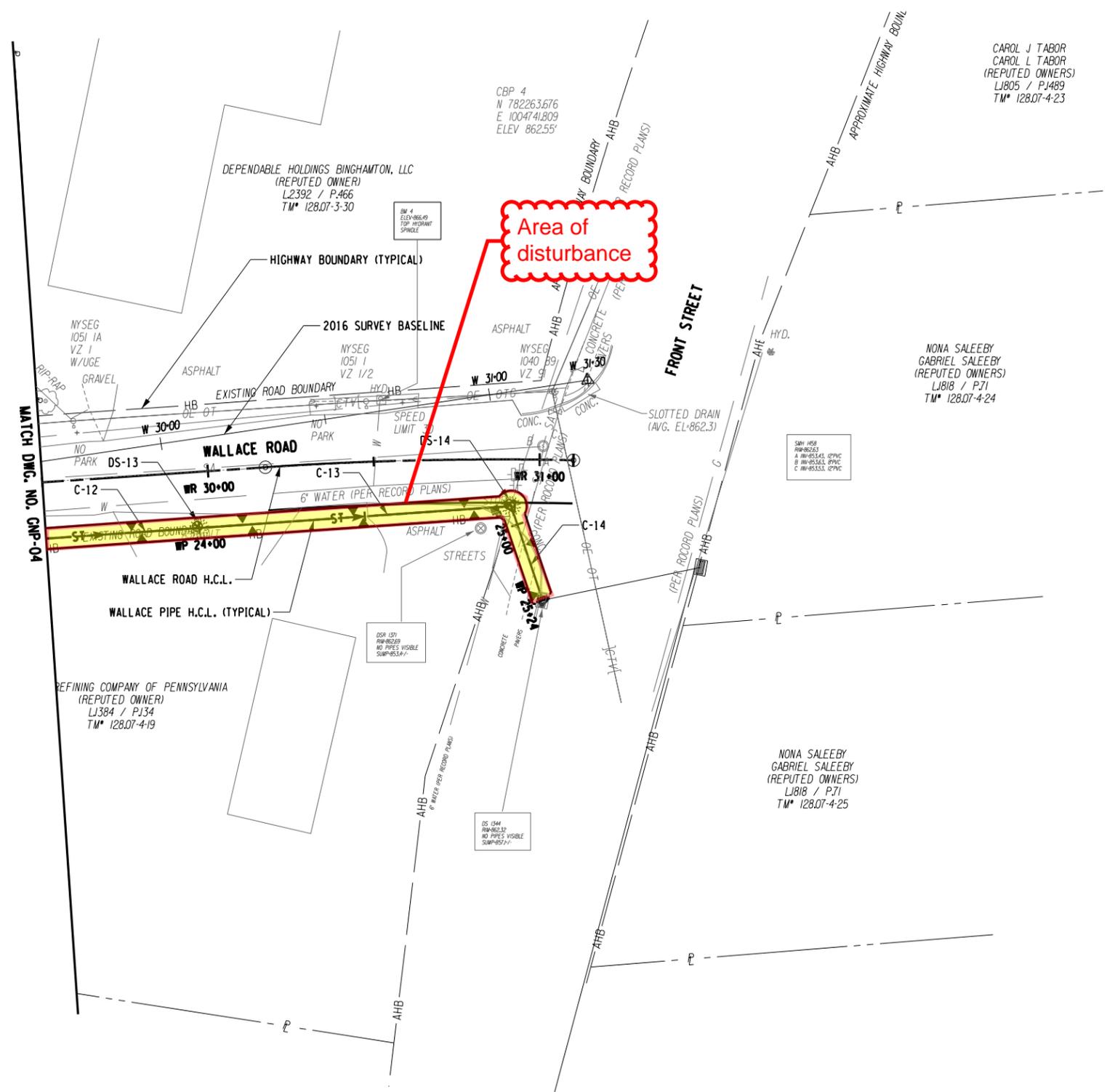
GENERAL PLAN
 WALLACE ROAD



 Woidt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-04
		DATE NOVEMBER 2016	SHEET OF

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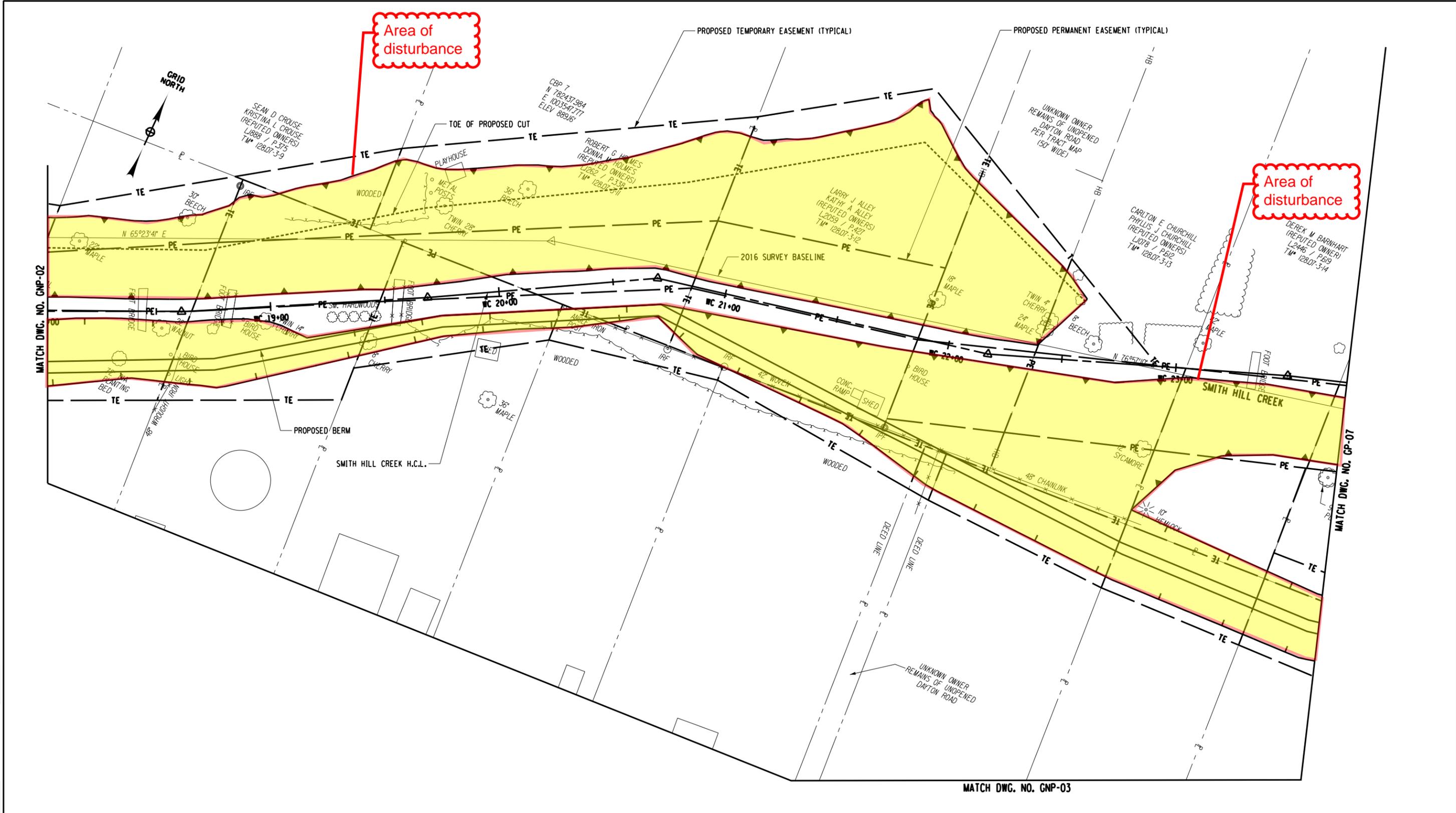
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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
 SCALE BAR	SCALE AS SHOWN DATE NOVEMBER 2016
DRAWING NO. GNP-05	SHEET OF

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 MATCH DWG. NO. GP-07
 MATCH DWG. NO. GNP-03



Preliminary

20' 0 20' 40'

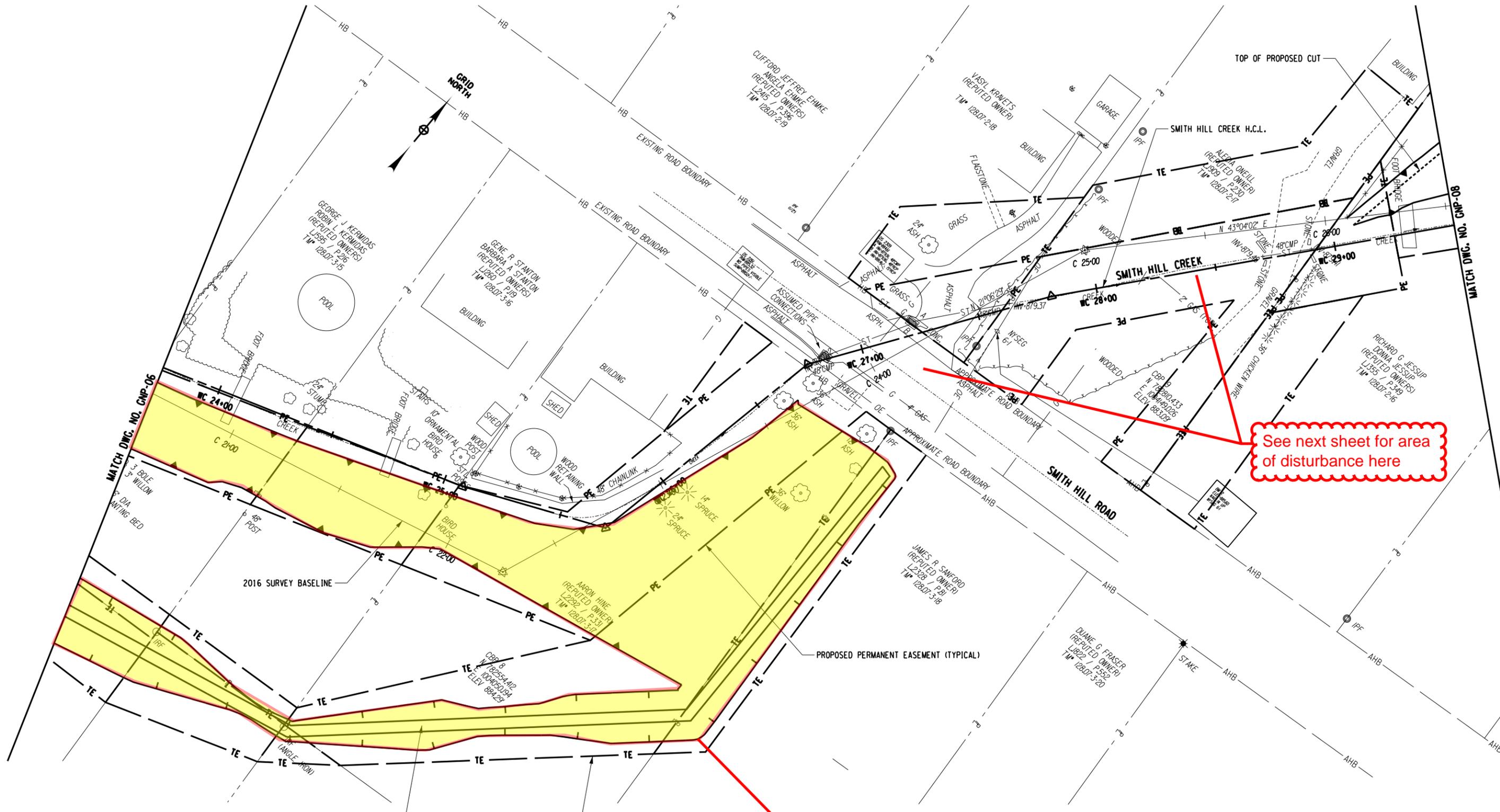
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
SMITH HILL CREEK**

 <small>DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS</small>	SCALE AS SHOWN	DRAWING NO. GNP-06
	DATE NOVEMBER 2016	SHEET OF

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 CHECKED BY : CJM



Area of disturbance

See next sheet for area of disturbance here



TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM
 GENERAL PLAN
 SMITH HILL CREEK

		SCALE AS SHOWN	DRAWING NO. GNP-07
		DATE NOVEMBER 2016	SHEET OF

preliminary

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CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

Area of
 disturbance

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

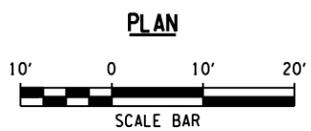
PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



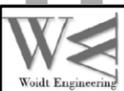
NOTES:

1. DENOTES HEAVY STONE FILL, ITEM 620.05.

2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN

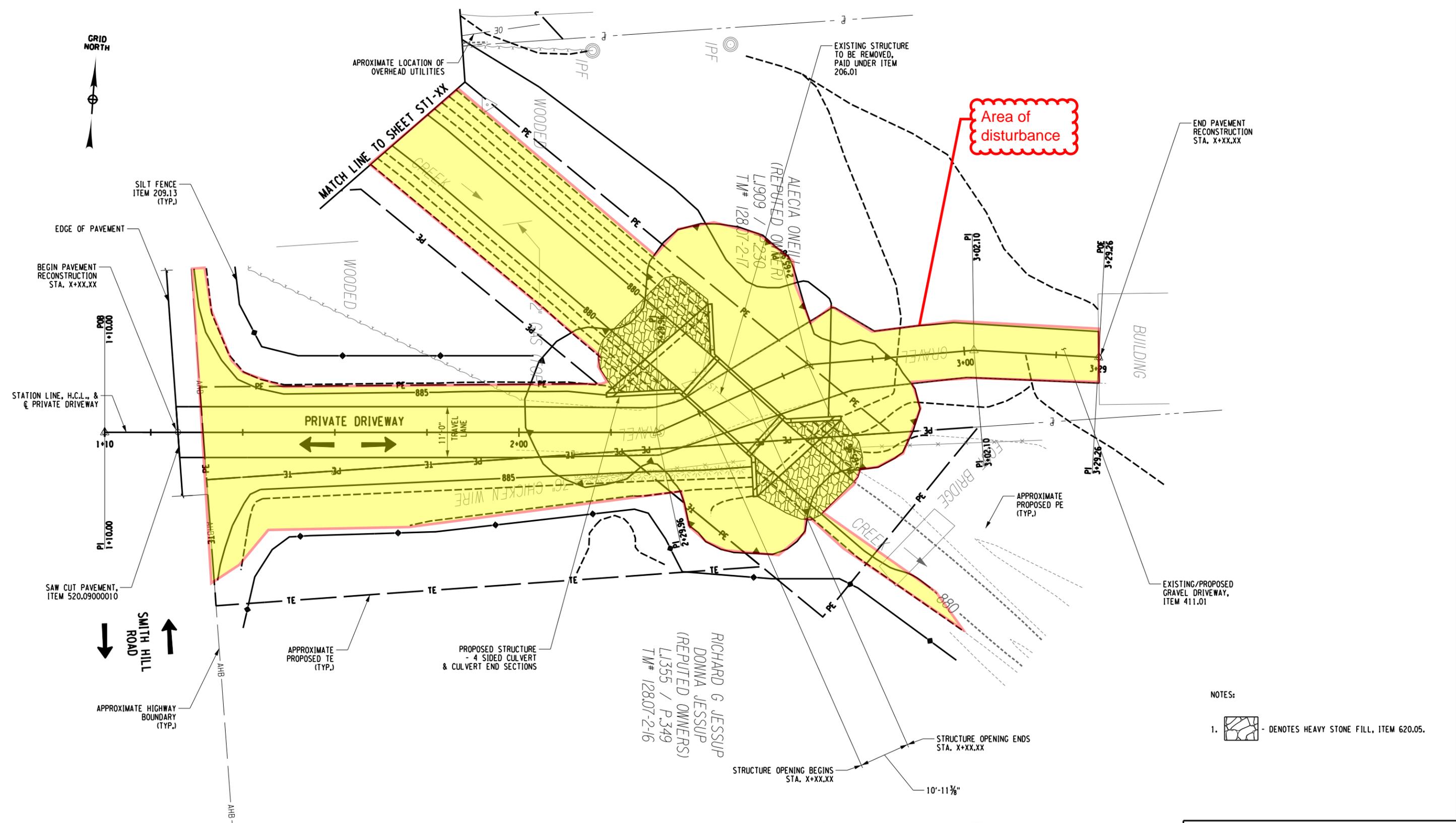


SCALE
 AS SHOWN
 DATE
 NOVEMBER 2016

DRAWING NO.
 ST1-XX
 SHEET
 XX OF

Preliminary

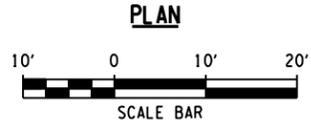
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 THIS IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
 IN CHARGE OF : GJM DESIGNED BY : BNS CHECKED BY : GJM
 DETAILED BY : BNS CHECKED BY : GJM



- NOTES:
1. DENOTES HEAVY STONE FILL, ITEM 620.05.

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LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

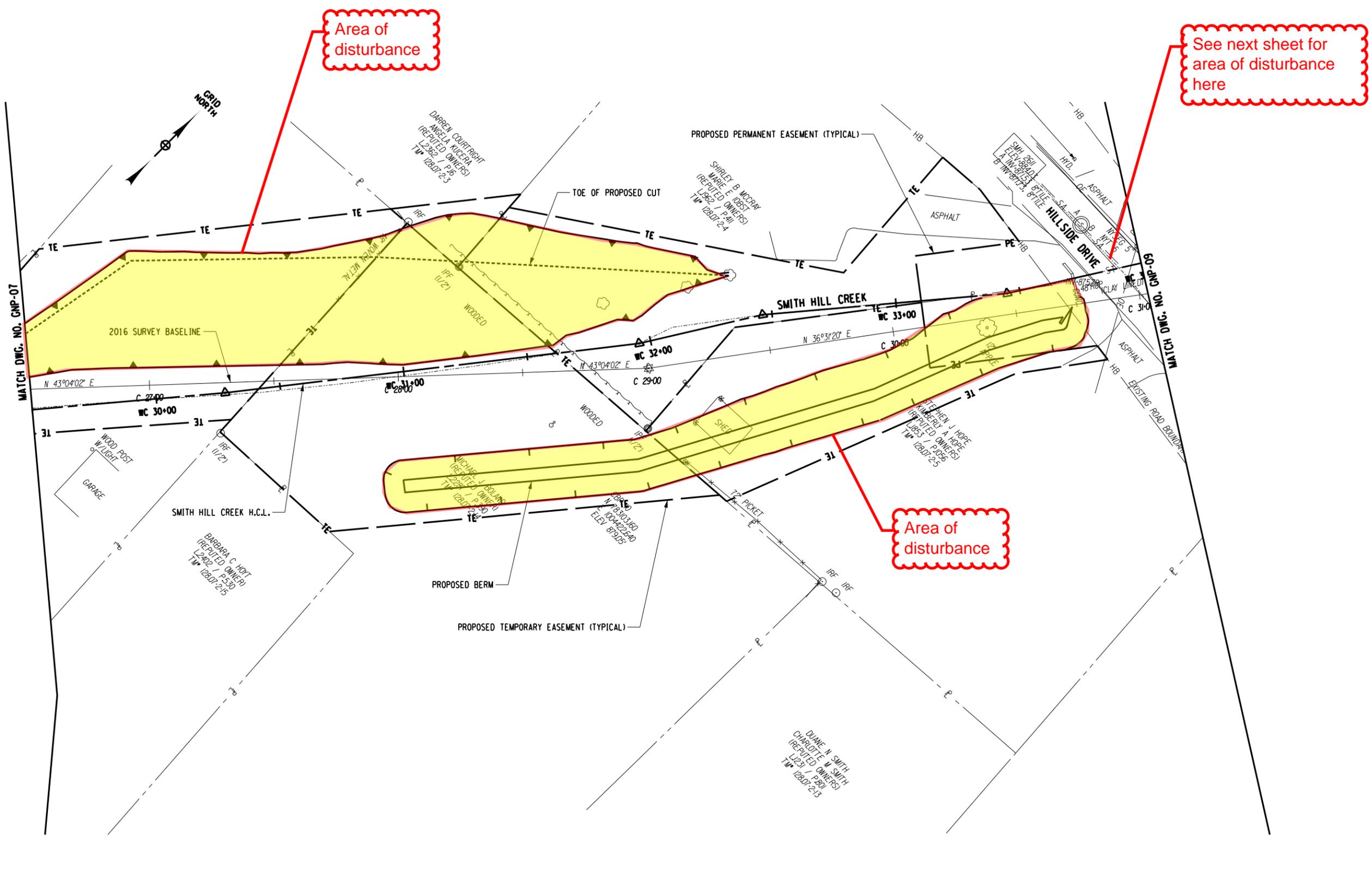


Preliminary

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**SMITH HILL ROAD DRIVEWAY
 GENERAL PLAN**

		SCALE AS SHOWN	DRAWING NO. ST2-XX
		DATE NOVEMBER 2016	SHEET XX OF



Area of disturbance

See next sheet for area of disturbance here

Area of disturbance

Preliminary

20' 0 20' 40'

SCALE BAR

TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
SMITH HILL CREEK

	SCALE AS SHOWN	DRAWING NO. GNP-08
	DATE NOVEMBER 2016	SHEET OF

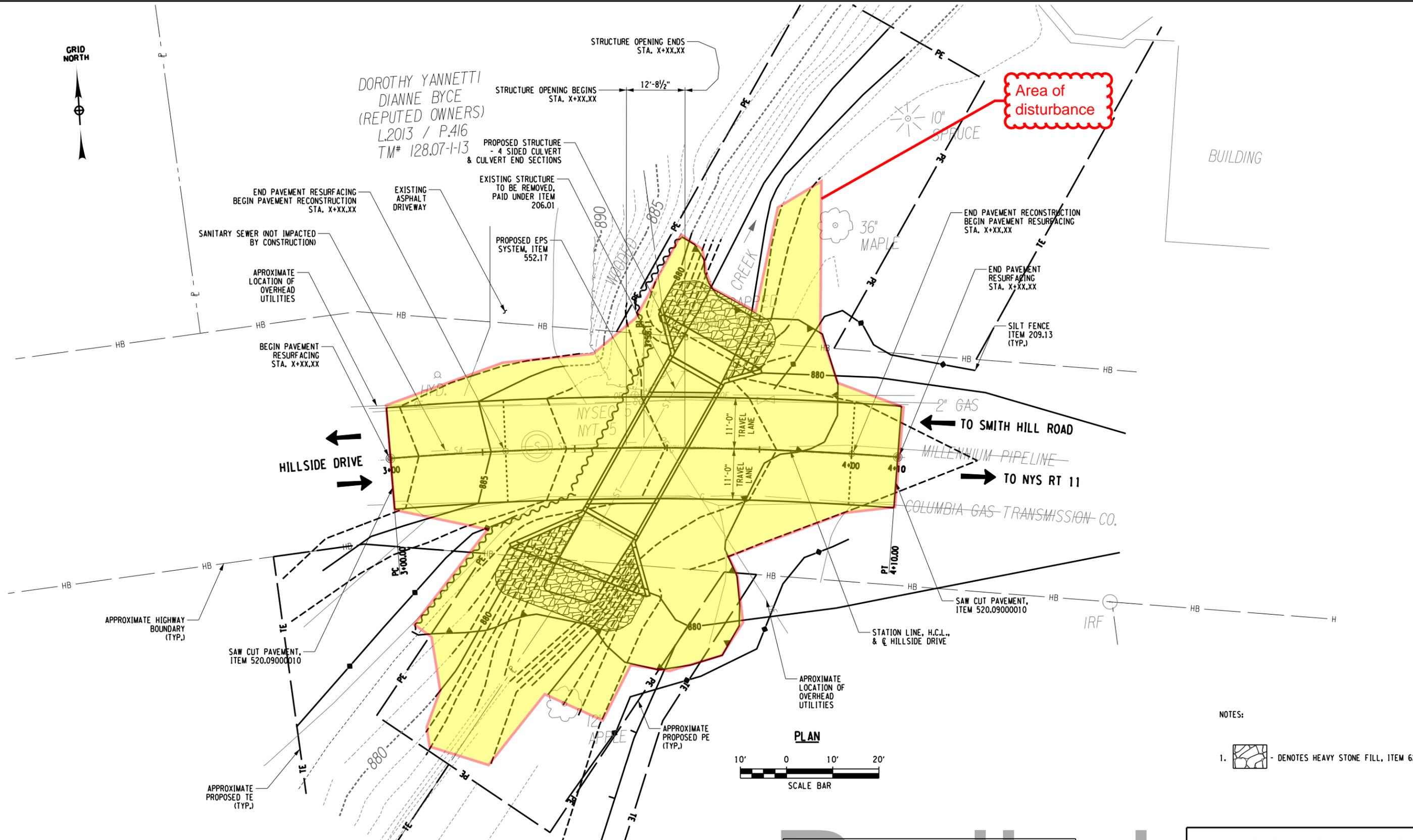
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 CHECKED BY : COM

SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



Area of disturbance

BUILDING

HILLSIDE DRIVE

TO SMITH HILL ROAD

TO NYS RT 11

MILLENNIUM PIPELINE
 COLUMBIA GAS TRANSMISSION CO.

SAW CUT PAVEMENT,
 ITEM 520.09000010

STATION LINE, H.C.L.,
 & C HILLSIDE DRIVE

PLAN



NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.

LOAD RATING		
LOADING	INVENTORY	OPERATING
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LRFR: HL-93		

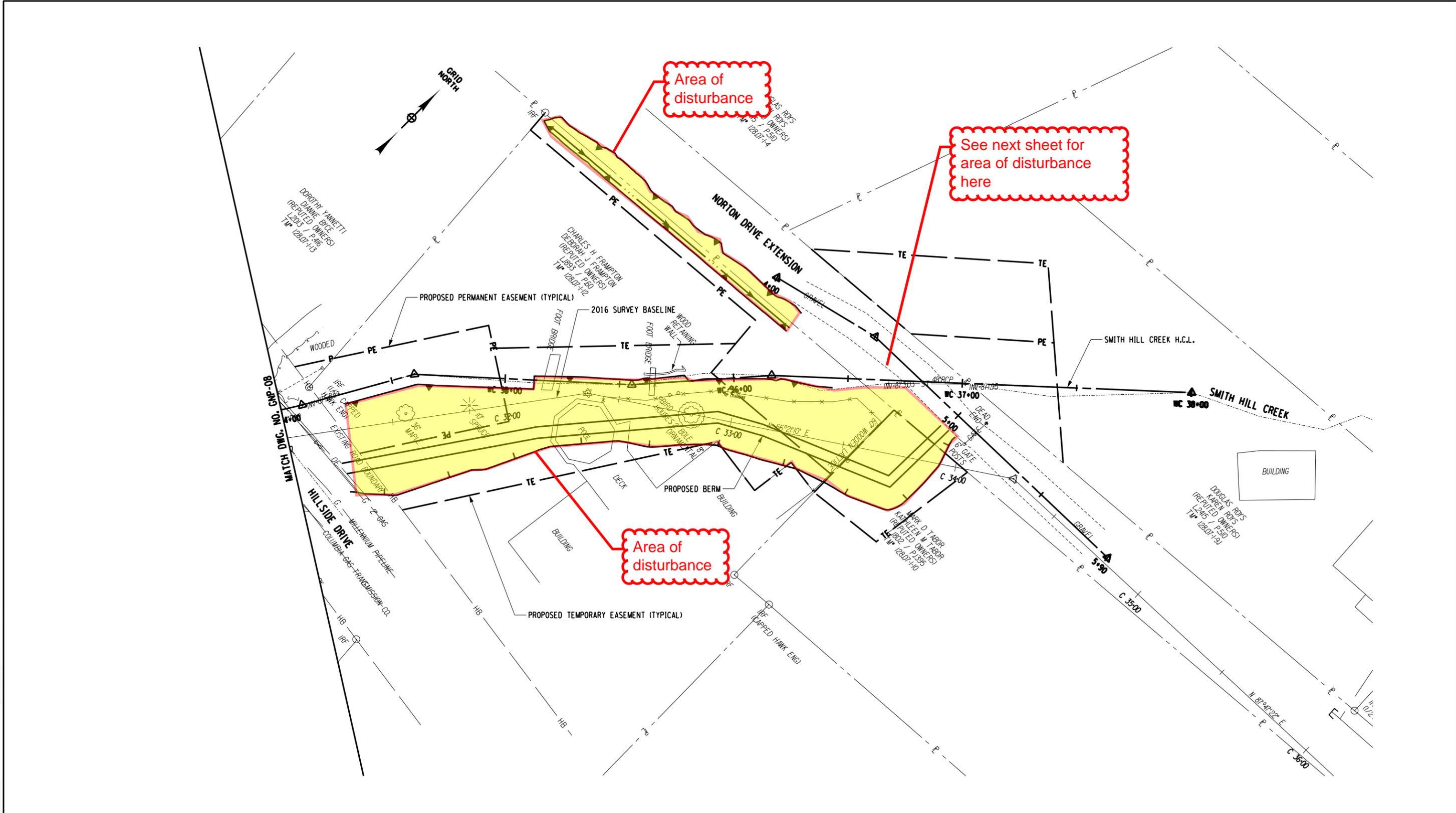
CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF

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 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



Area of disturbance

See next sheet for area of disturbance here

Area of disturbance

Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM			
GENERAL PLAN SMITH HILL CREEK			
 Woidt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-09
		DATE NOVEMBER 2016	SHEET OF

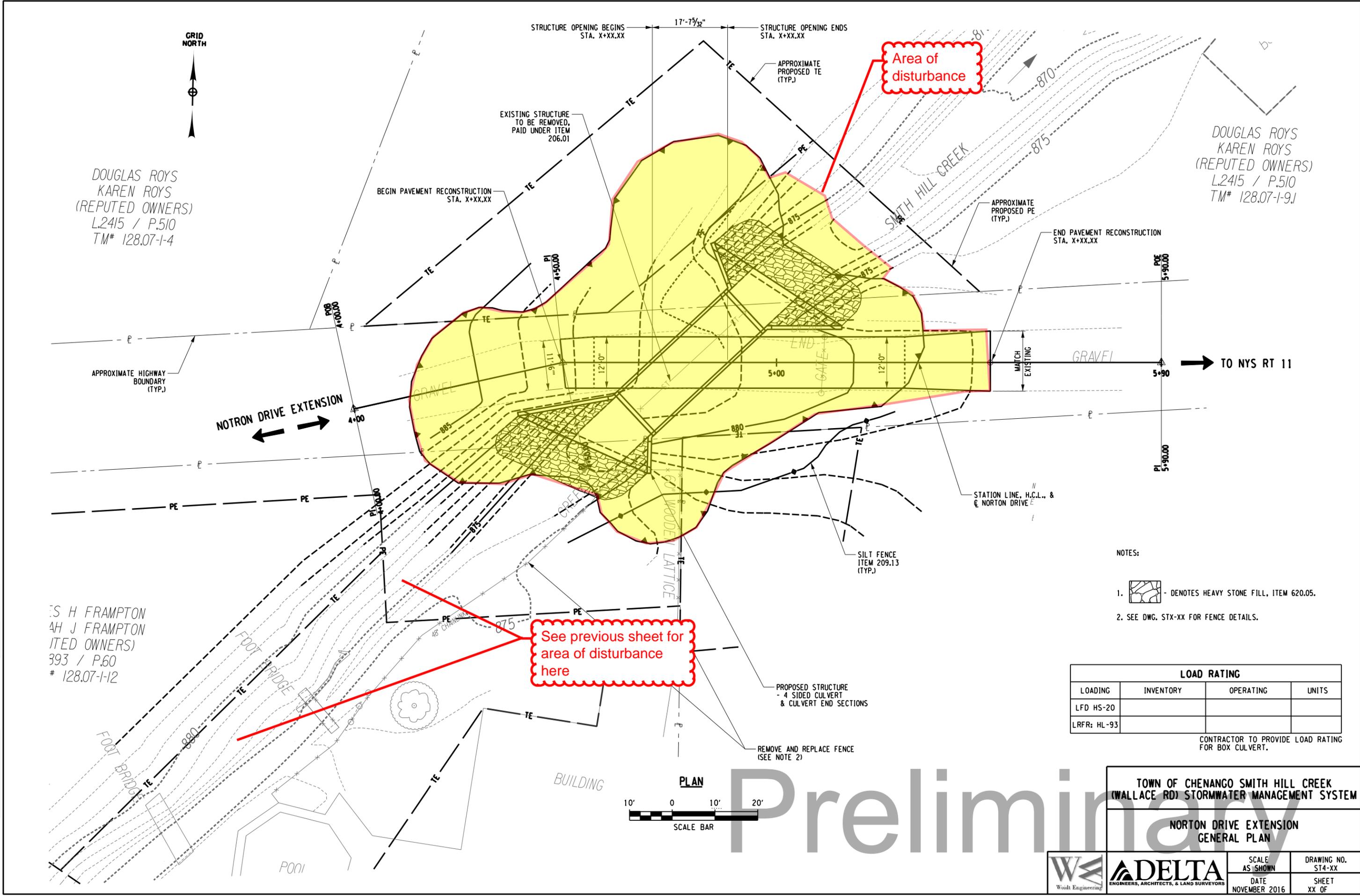
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DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



Area of disturbance

See previous sheet for area of disturbance here

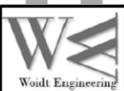
- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST4-XX
		DATE NOVEMBER 2016	SHEET XX OF

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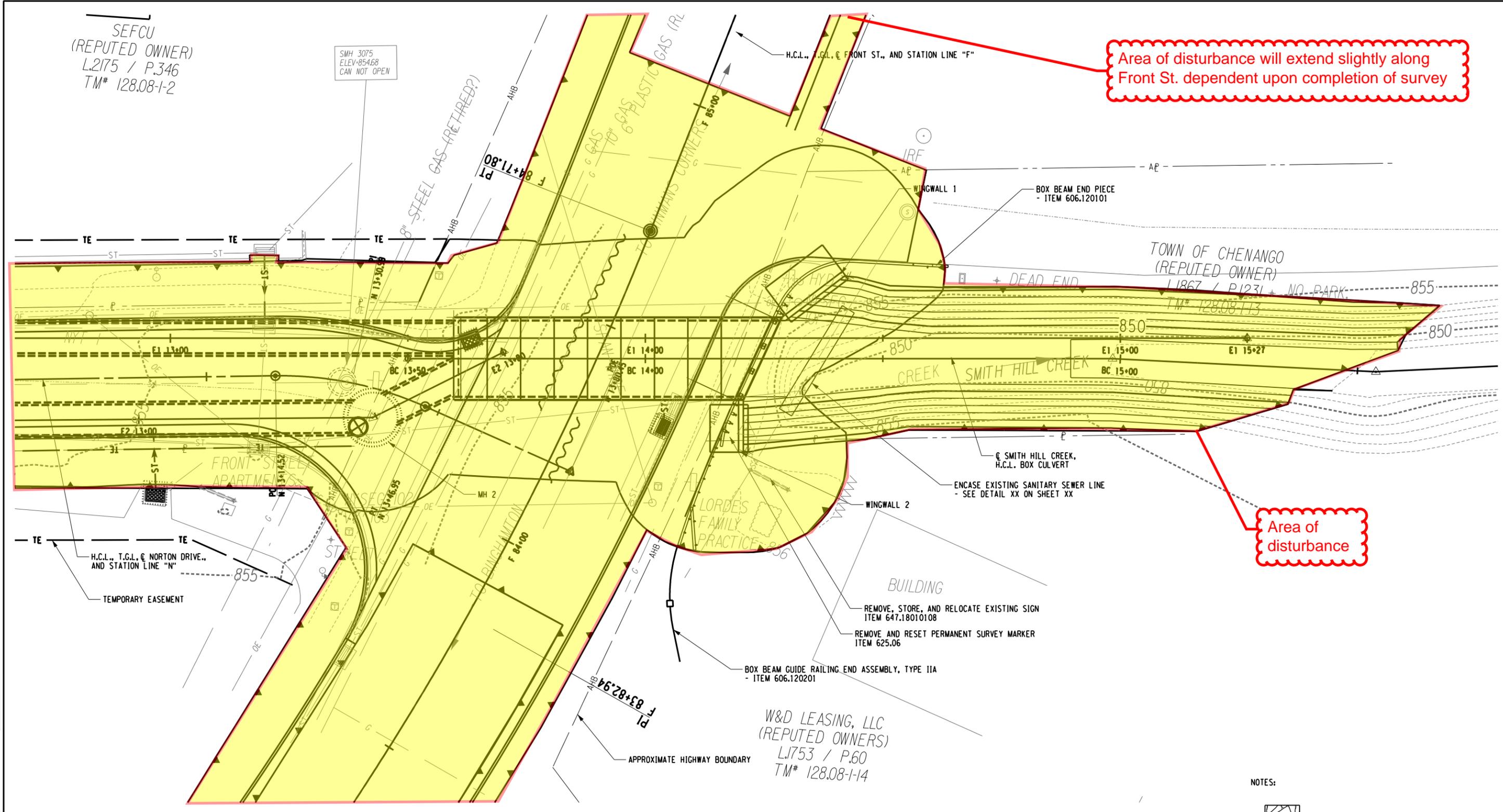
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 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN

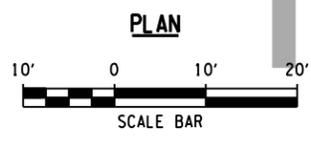
Area of disturbance will extend slightly along Front St. dependent upon completion of survey

Area of disturbance

Area of disturbance will extend slightly along Front St. dependent upon completion of survey

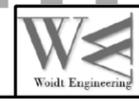


NOTES:
 1. DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
FRONT STREET GENERAL PLAN	
SCALE AS SHOWN	DRAWING NO.
DATE NOVEMBER 2016	SHEET OF



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits & Pollution Prevention
625 Broadway, 4th Floor, Albany, New York 12233-1750
P: (518) 402-9167 | F: (518) 402-9168 | deppermitting@dec.ny.gov
www.dec.ny.gov

June 2, 2016

Mr. Thomas J. King
Governor’s Office of Storm Recovery
99 Washington Avenue
Suite 1224
Albany, NY 12260

RE: Smith Hill Creek (Wallace Rd) Stormwater Management System
Town of Chenango, Broome County

Dear Mr. King:

We received your jurisdictional inquiry request for Smith Hill Creek (Wallace Rd) Stormwater Management System located at Smith Hill Creek from Front St to adjacent to Wallace Rd and along Wallace Rd in the Town of Chenango, Broome County. It is our understanding that the project is for storm water management improvements to Smith Hill Creek from Front St to adjacent to Wallace Rd, and to construct drainage improvements along Wallace Rd. The project would include up-sizing culverts along Smith Hill Creek where it intersects with Wallace Rd, Hillside Dr., Norton Dr., and Smith Hills Rd to handle a 100-year flood event; increasing the cross sectional area of the channels; shortening the culvert along Wallace Rd and/or replacing with an open channel; installing check dams along the upstream channel to retain bed load sediments and raise the base level of the stream minimizing undercutting and erosion; installing catch basins along Wallace Rd, installing storm water drainage piping along Wallace Rd, installing trash racks along upper portions of the Creek, and installing access road/paths as needed. Based on our understanding of the project and review of the Application for Funding dated February 2016, we have the following comments on the project:

WATER

Protection of Waters: A *stream/pond* is located within your project/site. The following provides a summary of the *stream(s)/pond(s)* within the project/site:

Name	Class	Waters Index Number
Smith Hill Creek	C	

An Article 15, Protection of Waters Permit, pursuant to 6NYCRR Part 608 is required for



any disturbance to the bed and banks of *this/these stream(s)/pond(s)*.

Please note that **any project undertaken shall not result in the degradation or contravening of water quality standards of the stream.** Activities resulting in sedimentation and/or turbid waters may constitute a violation of water quality standards and the Environmental Conservation Law (ECL). Care needs to be taken to stabilize the disturbed areas promptly after construction, and all necessary precautions be taken to prevent contamination of the stream by silt, sediment, fuels, solvents, lubricants, or any other pollutant associated with the project.

Stormwater Permit: If your project will disturb more than one acre of land, you must comply with the State Pollutant Discharge Elimination System (SPDES) Phase II regulations for Stormwater Discharges Associated with Construction Activities. Information regarding the SPDES General Permit for Stormwater Discharges can be found on the Department's website at: <http://www.dec.ny.gov/chemical/8468.html>.

STATE-LISTED SPECIES

We have reviewed the available information in the New York Natural Heritage Program database on known occurrences of rare or state-listed animals and plants, significant communities and other significant habitats. No records of *known* occurrences were found in the (immediate) vicinity of the project/site.

The absence of data does not necessarily mean that any other rare or state-listed species, natural communities or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information which indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

CULTURAL RESOURCES

Your project/site appears to be located within an area of potential historical or archeological significance. If approvals/permits are needed from this Department, we may require consultation with the Office of Parks, Recreation and Historic Preservation (OPRHP) in order to better evaluate this project's impact to these resources.

For more information, please visit the New York State Office of Historic Preservation website at <http://www.nysparks.com/shpo/>.

OTHER

Work in certain wetlands and other waters of the United States may require a permit from the U.S. Army Corps of Engineers (USACOE). If a USACOE permit is required, the Department may need to make a determination that discharges from the proposed activities will comply with the applicable effluent limitations, water quality standards, and any other applicable conditions of the State Law. A Water Quality Certification, pursuant to Section 401 of the Federal Clean Water Act, may be required from this Department for impacts to federally regulated wetlands. Please contact the Department for further details. It is recommended that you contact the Corps at (518) 266-6350 to discuss their permitting requirements.

For construction permits, if this site is within an MS4 area (Municipal Separate Storm Sewer System), the stormwater plan must be reviewed and accepted by the municipality and the MS-4 Acceptance Form must be submitted to the Department.

Please note that this letter only addresses the requirements for the following permits from the Department:

Protection of Waters

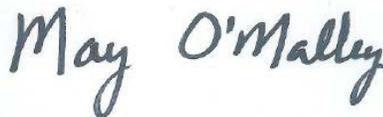
Water Quality 401

SPDES

Other permits from this Department or other agencies may be required for projects conducted on this property now or in the future. Also, regulations applicable to the location subject to this determination occasionally are revised and you should, therefore, verify the need for permits if your project is delayed or postponed. This determination regarding the need for permits will remain effective for a maximum of one year unless you are otherwise notified. Applications may be downloaded from our website at www.dec.ny.gov under "Programs" then "Division of Environmental Permits."

Please contact this office if you have questions regarding the above information.

Sincerely,



May O'Malley
Division of Environmental Permits
may.omalley@dec.ny.gov
518-402-9154

Cc: NYSDEC Region 7 Environmental Permits
NYSOPRHP
US Army Corps



Welcome to the NYS Coastal Boundary Map

[Help](#)

Search

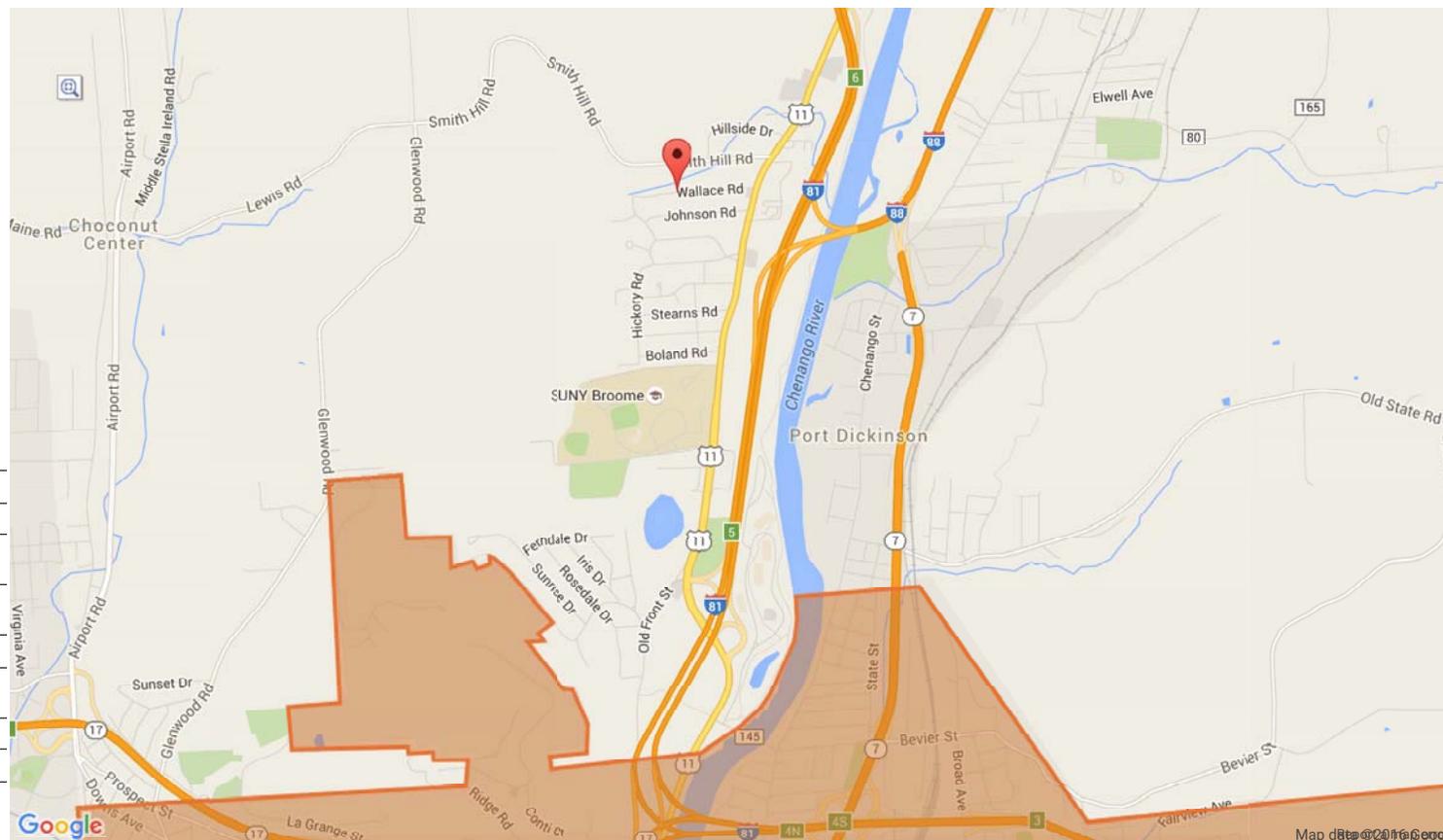
Address:

Wallace Avenue, Chenango

Please note that the address marker is automatically placed along the street while certain activities may take place along the waterward property boundary. Please make sure to click and drag the marker to the exact location of the proposed activity for an accurate assessment of whether or not the activity would be located within any DOS Special Management Areas.

Layers

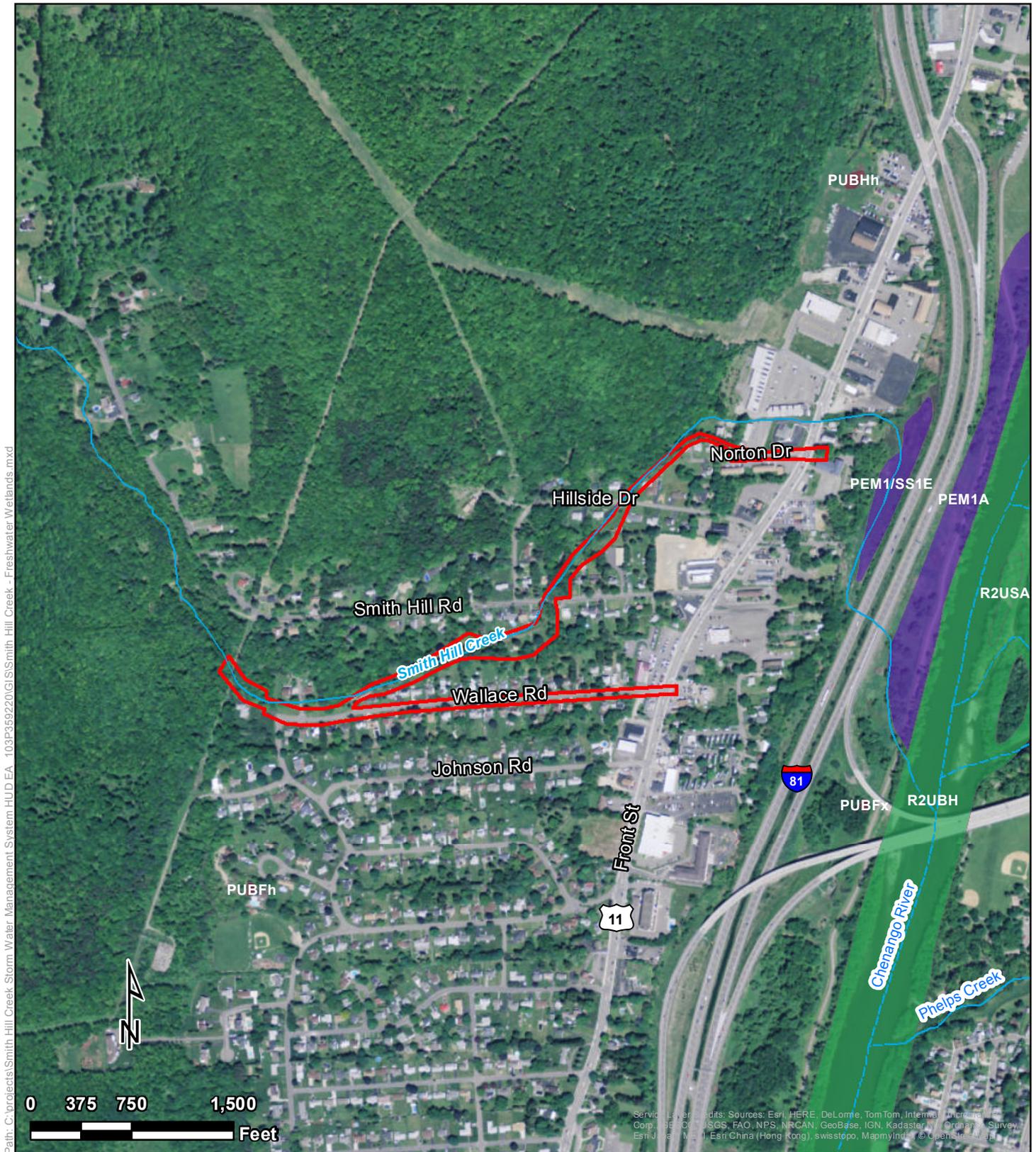
- Landward Coastal Boundary
- Scenic Areas
- Local Waterfront Revitalization Areas
- Local Waterfront Revitalization Program Communities
- Significant Coastal Fish and Wildlife Habitats
- DOS Identified Canals
- Long Island Sound CMP (excludes LWRP communities)
- Federally Owned Lands
- Native American Lands



Map data ©2016 Google
Latitude: 42.803 Longitude: -75.399

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Legend

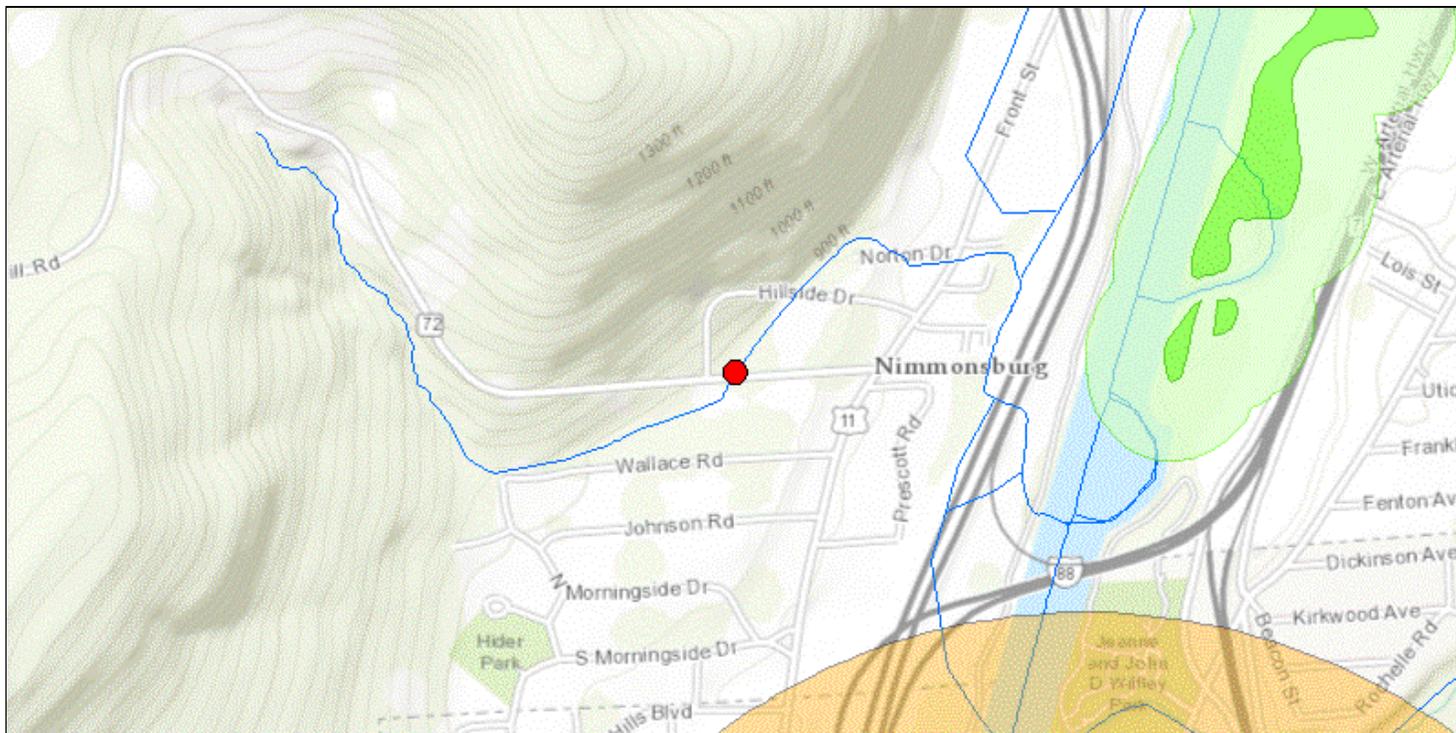
- Project Area
- NWI Wetlands**
- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine
- NYS Freshwater Wetlands
- NYS Freshwater Wetlands Buffer

Freshwater Wetlands

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18

Easting: 425205.539

Northing: 4666437.700

Longitude/Latitude

Longitude: -75.905

Latitude: 42.147

The approximate address of the point you clicked on is:

283 Smith Rd, Chenango, Town of, New York, 13905

County: Broome

USGS Quad: CASTLE CREEK

DEC Region

Region 7:

(Central New York) Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins counties. For more information visit <http://www.dec.ny.gov/about/615.html>.

Waterbody Classifications for Rivers/Streams

Regulation: 931-149

Standard: C

Classification: C

National Wetlands Inventory

Attribute: R5UBH

Type: Riverine

Acres: 4.605145677740702

For more information about the National Wetlands Inventory wetlands visit <http://www.fws.gov/wetlands/>

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.



Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

LISA BOVA-HIATT
Executive Director

Via Electronic Mail

February 3, 2017

Ms. Grace Musumeci
U.S. Environmental Protection Agency
Region II Main Regional Office
290 Broadway, 25th Floor New York, NY 10007

Re: Sole Source Aquifer Analysis for the Smith Hill Creek Stormwater Management System Project, Town of Chenango, Broome County, New York

Dear Ms. Musumeci:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), including the New York Rising Community Reconstruction (NYRCR) Program. 24 C.F.R. Part 58 requires GOSR to review projects for conformance with the Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300(f) et seq., and 21 U.S.C. 349) as amended, and Environmental Protection Agency ("EPA") regulations pertaining to Sole Source Aquifers found at 40 C.F.R. Part 149. On behalf of GOSR, please find enclosed the sole source aquifer review information for the Smith Hill Creek Stormwater Management System project, located in the Town of Chenango, Broome County, New York.

The project will take place along Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road (see **Figures 1 and 2**). The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek (see attached **Preliminary Site Plan**). Heavy rain from Hurricane Irene resulted in ground saturation during the storm. Ten days later heavy rain from Tropical Storm Lee, in combination with the existing ground saturation, resulted in substantial flooding and the failure of stormwater management systems throughout the Town of Chenango. Tropical Storm Lee resulted in millions of dollars of commercial and residential property damage. A key strategy for the town in its New York Rising Community Reconstruction plan is to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce risk

and damage to persons and property. This project would protect this vulnerable area from experiencing the type of flooding and devastation caused by Topical Storm Lee.

In accordance with the Memorandum of Understanding (“MOU”) between EPA and HUD dated August 24, 1990, GOSR hereby requests an Initial Screen/Preliminary Review for the project. Please review the attached documentation, including Attachment 2.A and 3 to the MOU. Responses can be sent to me via email at Alicia.Shultz@nyshcr.org. In accordance with the MOU, please respond within fifteen days. If you have any questions, please call me at (518) 474-0647.

Sincerely,

A handwritten signature in cursive script that reads "Alicia Shultz".

Alicia Shultz
Community Developer - Environmental Services
Governor’s Office of Storm Recovery
NYS Homes and Community Renewal

Enclosures:

- 2.A. Non-housing/Project Activity Initial Screen Criteria
- 3. SSA Preliminary Review Information Requirements
 - A. Project Summary; Figures including Sole Source Aquifer Map and Drinking Water Well Map
 - B. Preliminary Site Plan

ATTACHMENT 2.A

NON-HOUSING/PROJECT ACTIVITY INITIAL SCREEN CRITERIA

The following list of criteria questions are to be used as an initial screen to determine which **non-housing** projects/activities should be forwarded to the Environmental Protection Agency (EPA) for Preliminary Sole Source Aquifer (SSA) Review. (For housing projects/activities see Attachment 2.B) If any of the questions are answered affirmatively, Attachment 3, SSA Preliminary Review Requirements, should also be completed. The application/final statement, this Attachment, Attachment 3, and any other pertinent information should then be forwarded to EPA at the address below.

Any project/activity not meeting the criteria in this Attachment, but suspected of having a potential adverse effect on the Sole Source Aquifer should also be forwarded.

CRITERIA QUESTIONS	YES	NO	N/A
<p>1. Is the project/activity located within a currently designated or proposed groundwater sensitive area such as a special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.? [This information can be obtained from the County or Regional Planning board, the local health department, the State health department or the State environmental agency.]</p> <p>The project is within the Clinton-Ballpark Sole Source Aquifer. See attached Figure 4.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>2. Is the project/activity located within a one half mile radius (2640 feet) of a current or proposed public water supply well or wellfield? [This information can be obtained from the local health department, the State health department or the State environmental agency.]</p> <p>See attached Figure 5.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3. Will the project/activity include or directly cause (check appropriate items):

	YES	NO	N/A
construction or expansion of solid waste disposal, recycling or conversion facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion or closure of landfills	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion of water supply facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion of on-site wastewater treatment plants or sewage trunk lines	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion of gas or petroleum trunk lines greater than 1320 feet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion of railroad spurs or similar extensions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
construction or expansion of municipal sewage treatment plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4. Will the project/activity include storage or handling of any hazardous constituents as listed in Attachment 4, Hazardous Constituents

5. Will the project/activity include bulk storage of petroleum in underground or above ground tanks in excess of 1100 gallons?
(Please give what assurance they are done in a proper manner.)

6. Will the project/activity require a federal or state discharge elimination permit or modification of an existing permit?

The project is a stormwater control facility. The project footprint would be greater than one acre, so a State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges would be obtained for the construction activities.			
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This attachment was completed by:

Name: Genevieve Kaiser

Title: Senior Environmental Planner/GIS Specialist

Address: 1765 Lombardy Drive
Boulder, CO 80304

Telephone number: 720-273-7249

Date: 02/03/17

ATTACHMENT 3

SSA PRELIMINARY REVIEW INFORMATION REQUIREMENTS

Where currently available, the information in this Attachment should be provided to the Environmental Protection Agency (see address below) along with the application/final statement; Attachment 2.A, Non-Housing Initial Screen Criteria or Attachment 2.B, Housing Initial Screen Criteria; and any other information which may be pertinent to a Sole Source Aquifer review. Where applicable, indicate the source of your information.

I. Project/Activity Location	Enclosed?	
	Yes	No
<p>1. Provide the geographic location and total acreage of the project/activity site. Include a site map which identifies the site in relation to the surrounding area. [Examples of maps which can be used include: 1:24,000 or 1:25,000 U.S. Geological Survey quadrangle sheet, Hagstroms Street Map.] See attached Figures 1 and 2 and Smith Hill Creek SSA Description of the Proposed Project. The project would disturb approximately 4.8 acres.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>2. If applicable, identify which groundwater sensitive areas (Special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.) the project/activity is located within or adjacent to. [This information may be obtained from the County or Regional planning board, the local health department, the State health department or the State environmental agency.] The project is within the Clinton-Ballpark Sole Source Aquifer. See attached Figure 4.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

II. Nature of Project/Activity	Enclosed?	
	Yes	No
<p>3. Provide a general narrative describing the project/activity including but not limited to: type of facility; type of activities to be conducted; number and type of units; number of residents, etc. Provide the general layout of the project/activity site and site-plan if available. See attached Smith Hill Creek SSA Description of the Proposed Project.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

III. Public Water Supply	Enclosed?	
	Yes	No
4. Provide a description of plans to provide water supply. <i>The project would not change the public water supply.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Provide the location of nearby existing or proposed public water supply wells or wellfields within one half mile radius (2640 feet) of the project/activity. Provide the name of the supplier(s) of those wells or wellfields. This information should be available from the local health department, State health department or the State environmental agency. <i>The project would not be within one half mile radius of public water supply wells or wellfields. See attached Figures 5.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IV. Wastewater and Sewage Disposal	Enclosed?	
	Yes	No
6. Provide a description of plans to handle wastewater and sewage disposal. If the project/activity is to be served by existing public sanitary sewers provide the name of the sewer district. <i>The project would not change the handling of wastewater and sewage disposal or require service by public sanitary sewers.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Provide a description of plans to handle storm water runoff. <i>The project is a stormwater control facility. See the attached Preliminary Site Plans.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Identify the location, design, size of any on-site recharge basins, dry wells, leaching fields, retention ponds, etc. <i>The project is a stormwater control facility. See the attached Preliminary Site Plans for the location of specific design details. These include upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek.</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

V. Use, Storage, Transport of Hazardous or Toxic Materials <i>(Applies only to non-housing projects/activities)</i>	Enclosed?	
	Yes	No
9. Identify any products listed in Attachment 4, Hazardous Constituents, of the Housing and Urban Development-Environmental Protection Agency Memorandum of Understanding which may be used, stored, transported, or released as a result of the project not related to construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The project would not use, store, transport, or release hazardous constituents.		
10. Identify the number and capacity of underground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site. The project would not include underground storage tanks.	□	☒
11. Identify the number and capacity of above ground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site. The project would not include above ground storage tanks.	□	☒

This form was completed by:

Name: Genevieve Kaiser

Title: Senior Environmental Planner/GIS Specialist

Address: 1765 Lombardy Drive
Boulder, CO 80304

Telephone number: 720-273-7249

Date: 02/03/17

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Town of Chenango is proposing storm water management improvements to Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road in the Town of Chenango, Broome County, New York. This creek is a manmade stream located in the Wallace Road neighborhood in the southern portion of the Town of Chenango. The creek and its associated storm water management components consist of underground pipes of varying sizes and materials, as well as open swales and culverts that wind through a residential neighborhood and eventually empty into a Broome County-management storm water system along Front Street and then into the Chenango River.

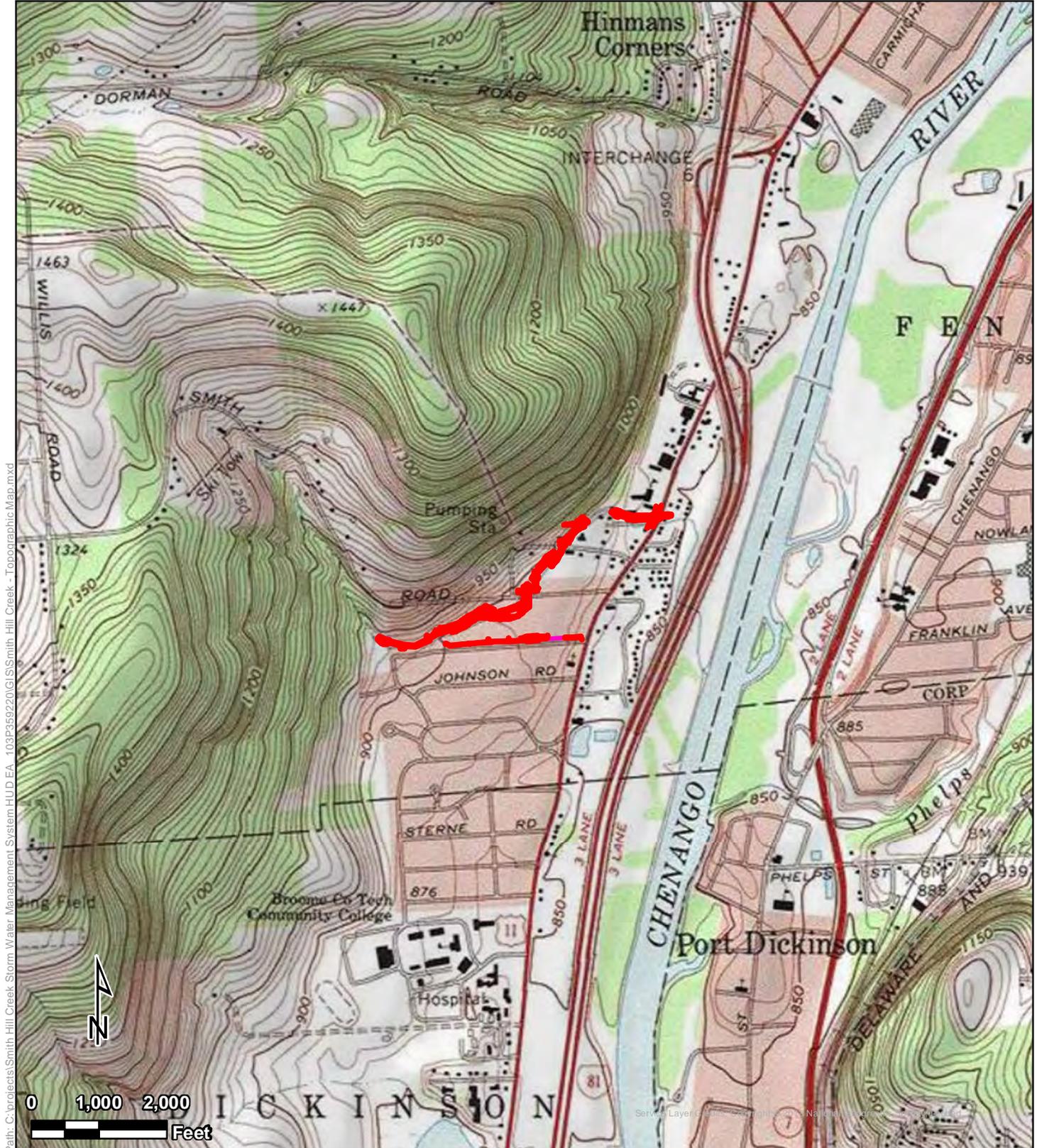
The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek. The individual project elements include:

- A debris basin located slightly upstream of the existing pipe at the beginning of the project on Smith Hill Creek. The basin width will be significantly wider than the stream, slowing the velocity of the flow. As the velocity decreases the debris will settle out and drop, reducing the potential for obstructing the pipes just downstream.
- A series of berms and benches along Smith Hill Creek to increase its capacity. Berms would be placed on the south side of the creek, with benches on the north side. The benches and berms would vary in width and height, but typically would be approximately two- to three-foot increases in elevation. The benches would be vegetated and designed to blend with the appearance of the adjacent lawn areas.
- A new parallel pipe along Wallace Road
- Increasing the size of culverts along Smith Hill Creek
 - At Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
 - At the driveway just downstream of Smith Hill Road (10-foot-wide by 4-foot-high box culvert)
 - At Hillside Drive (12-foot-wide by 6-foot-high box culvert)
 - At the Norton Drive extension (12-foot-wide by 6-foot-high box culvert)
 - At the driveway downstream of Norton Drive (12-foot-wide by 6-foot-high box culvert)
 - Along (under) Norton Drive twin 48" x 76" elliptical pipes
 - Across Front Street (approximate 12-foot-wide by 6-foot-high box culvert)
- An infiltration system at the low point on Wallace Road
- A 24-inch reinforced concrete outlet pipe at the low point on Wallace Road that would drain to the NYSDOT structure on Front Street.

The Project area along Norton Drive lies within an area between the limits 100-year floodplain and the 500 year floodplain, subject to the 100-year flood to depths of less than one foot, with a contributing drainage of less than one square mile, or protected by levees (**Figure 3**). It is located over the Clinton-Ballpark Sole Source Aquifer (**Figure 4**). The Project area is not within 0.5 mile of the nearest three public drinking water wells (**Figure 5**).

The Project would disturb approximately 4.8 acres. Approximately 0.726 acres of the Project area is covered with impervious surfaces. The proposed features that would increase the amount of impervious surface include increased culvert sizes at Smith Hill Road, Smith Hill Driveway, Hillside Drive, and Norton Drive Extension; Norton Drive driveway; Norton Drive at Front Street; and the new Wallace Road infiltration system. These elements would increase the impervious surfaces along Smith Hill Creek, Wallace Road, and Norton Drive to approximately 0.783 acres, an increase of 0.06 acres. The Project footprint would be greater than one acre, so a State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges would be obtained for the construction activities.

This Project would not change residents' use of water or wastewater. No changes to those systems are anticipated.

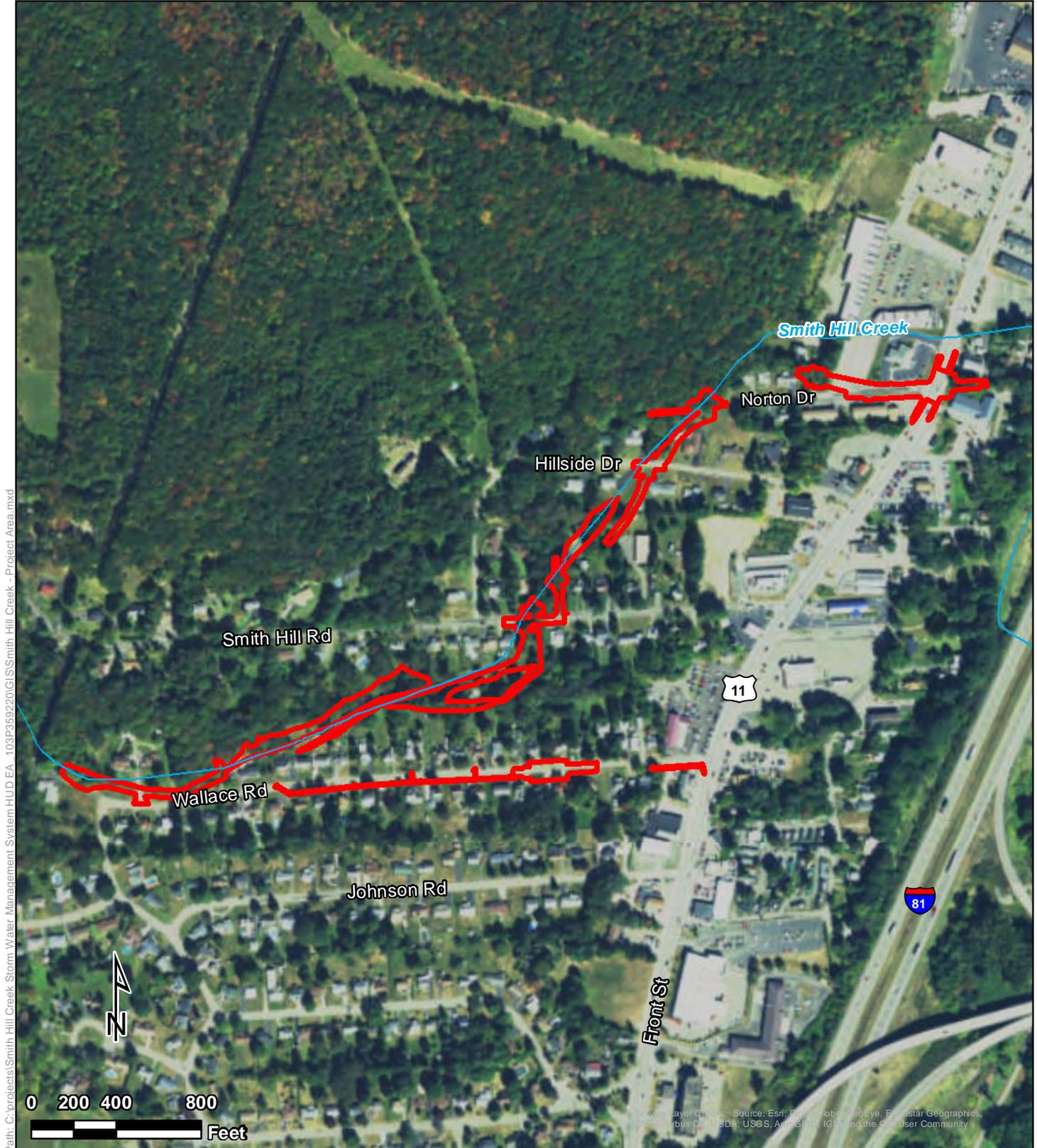


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Topographic Map

Legend
 Project Area

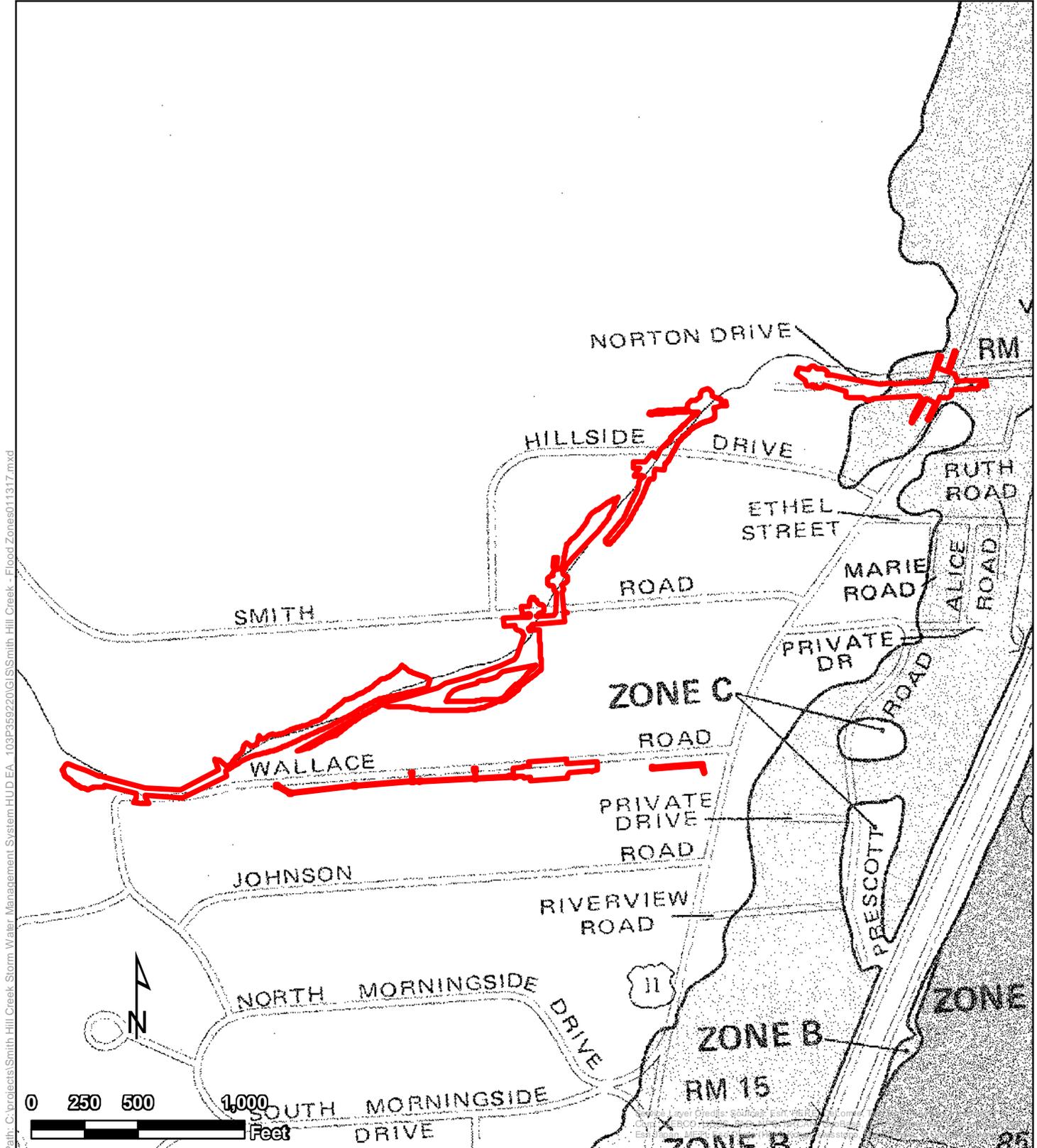
Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



Project Area

Legend
 Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



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Legend

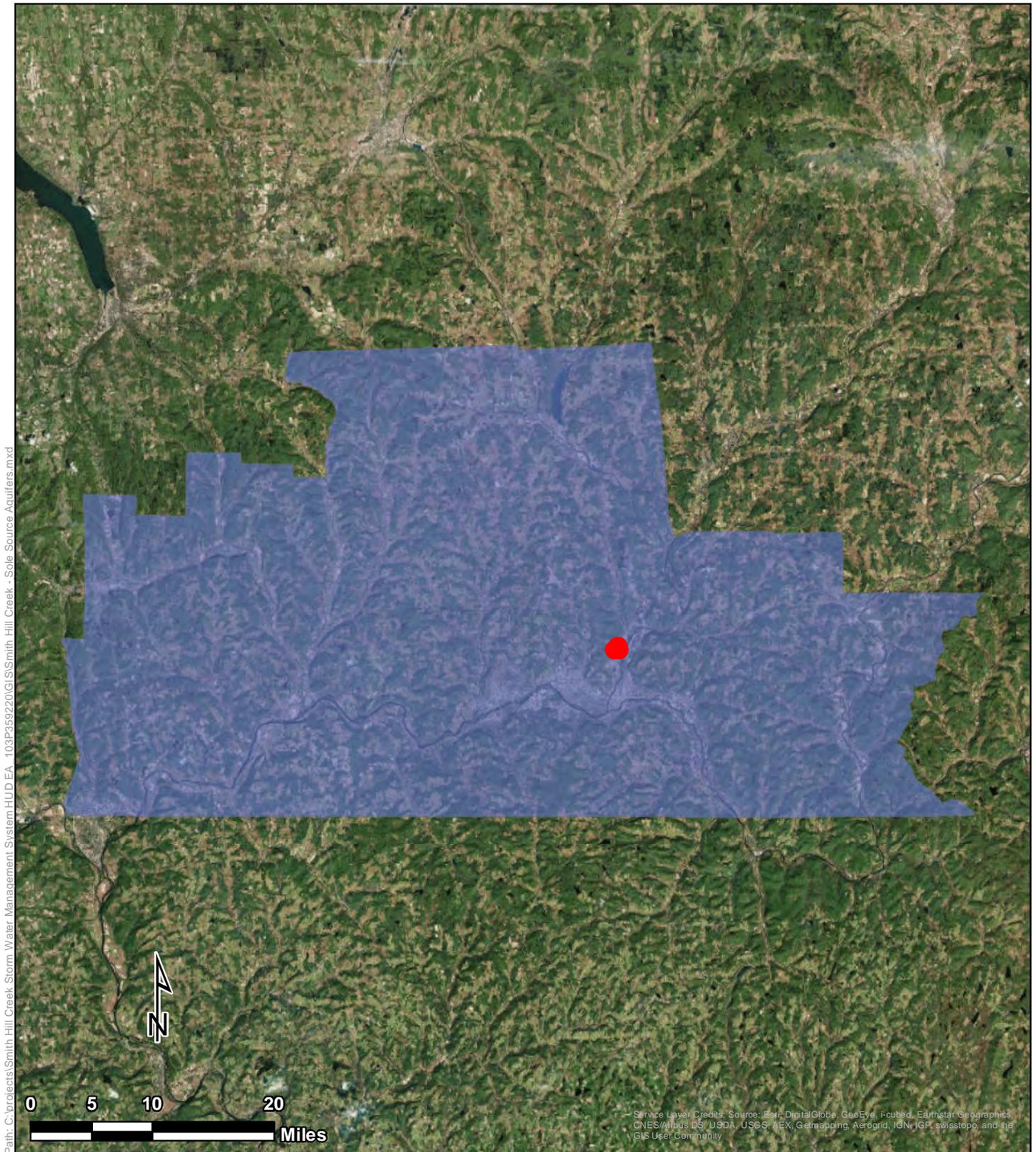
- Project Area
- Zone B - Between the limits 100-year floodplain and the 500 year floodplain, subject to the 100-year flood to depths of less contributing drainage of less than one square mile, or protected by levees
- Zone A6 - Areas of 100-year flood, flood elevations determined
- Zone C - Areas of minimal flooding

Flood Zones

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



Figure 3



Sole Source Aquifers

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

Legend

- Project Area
- Clinton Street Ballpark SSA



Tetra Tech, Inc

Figure 4

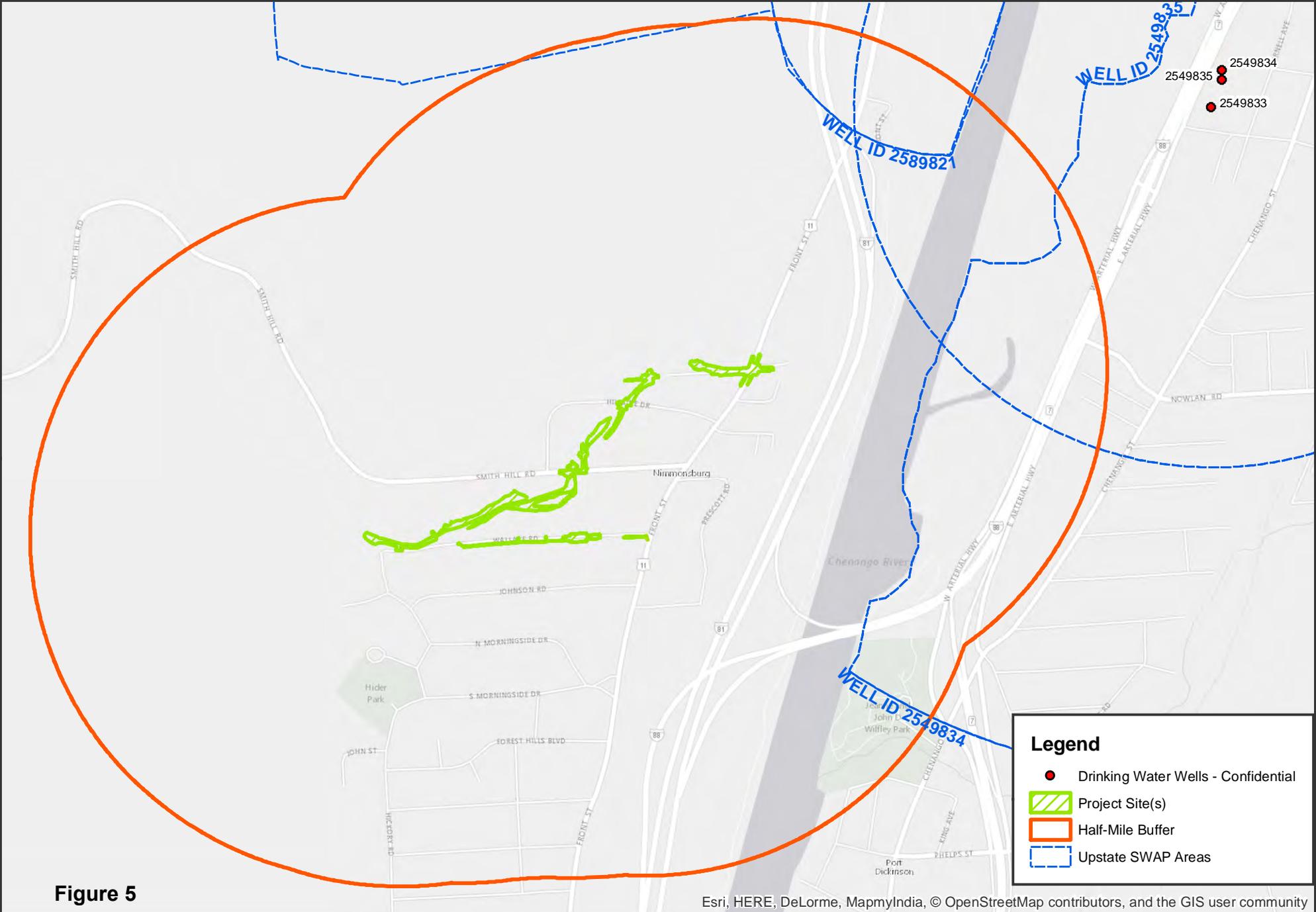


Figure 5

Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

DRAFT- INTERNAL REVIEW ONLY

N

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Smith Hill Creek Stormwater Management System

Town of Chenango, Broome County, NY

SSA and SWAP Analysis

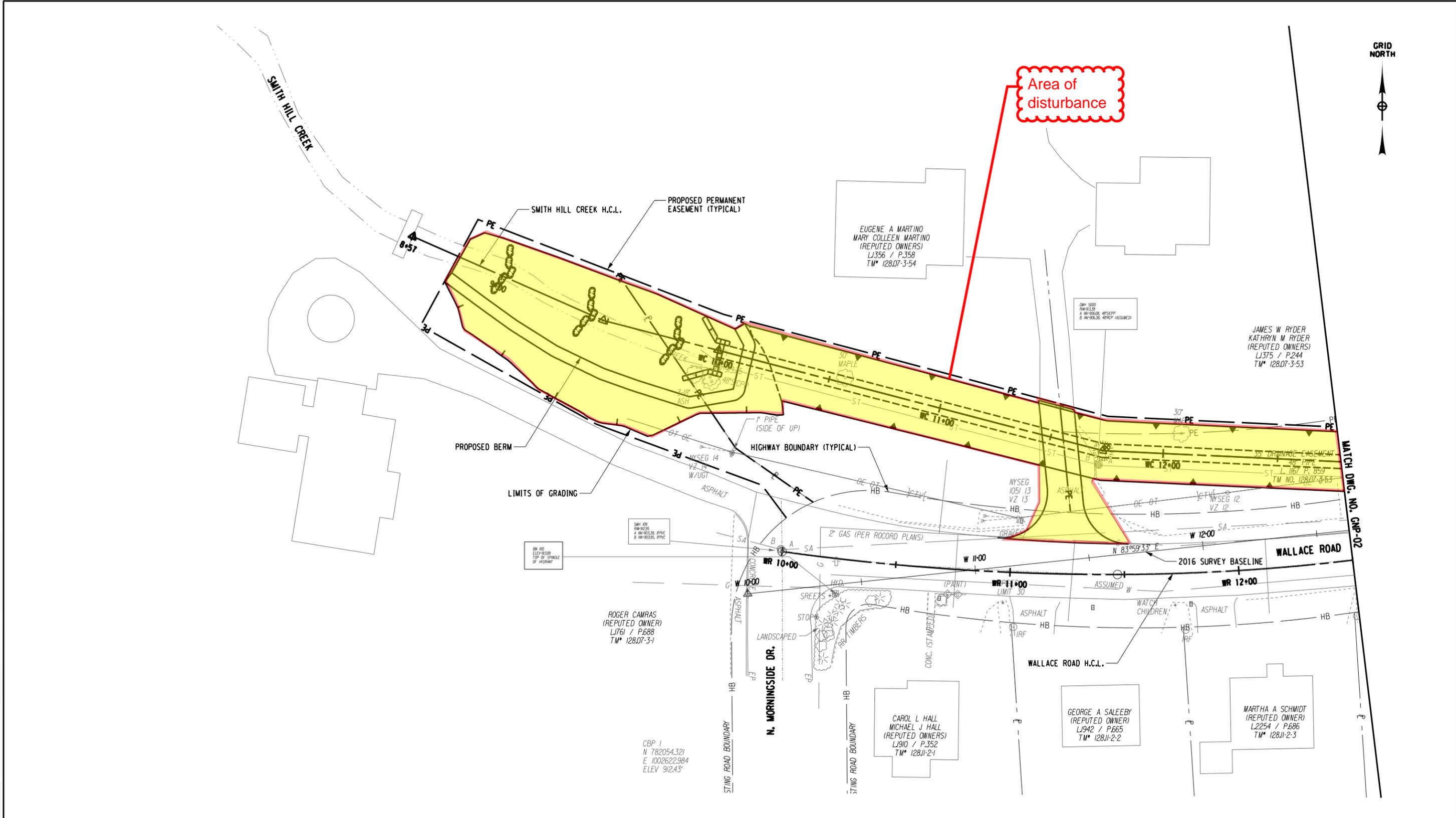
Governor's Office of Storm Recovery

Drawn By: LS | Version: 1.0 | Date: 1/13/2017

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 TIME = 11:39:36 AM

IN CHARGE OF : JJM
 DESIGNED BY : JJM
 CHECKED BY : SAS
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

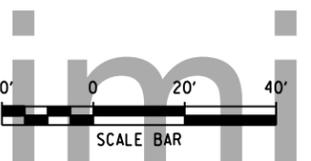
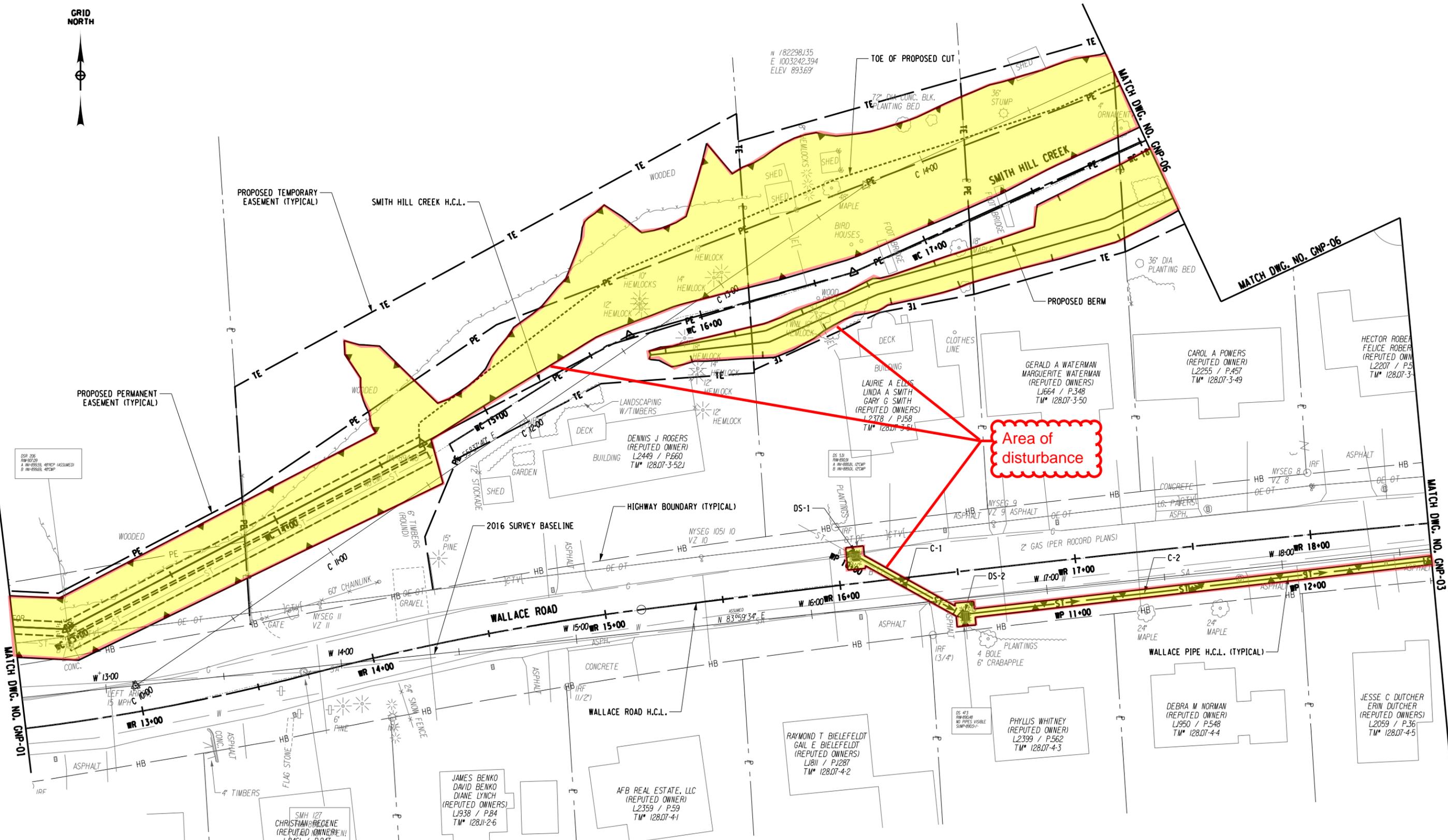
GENERAL PLAN
 WALLACE ROAD



W Woldt Engineering	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-01
		DATE NOVEMBER 2016	SHEET OF

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 DETAILED BY: SAS
 IN CHARGE OF: JJM



Preliminary

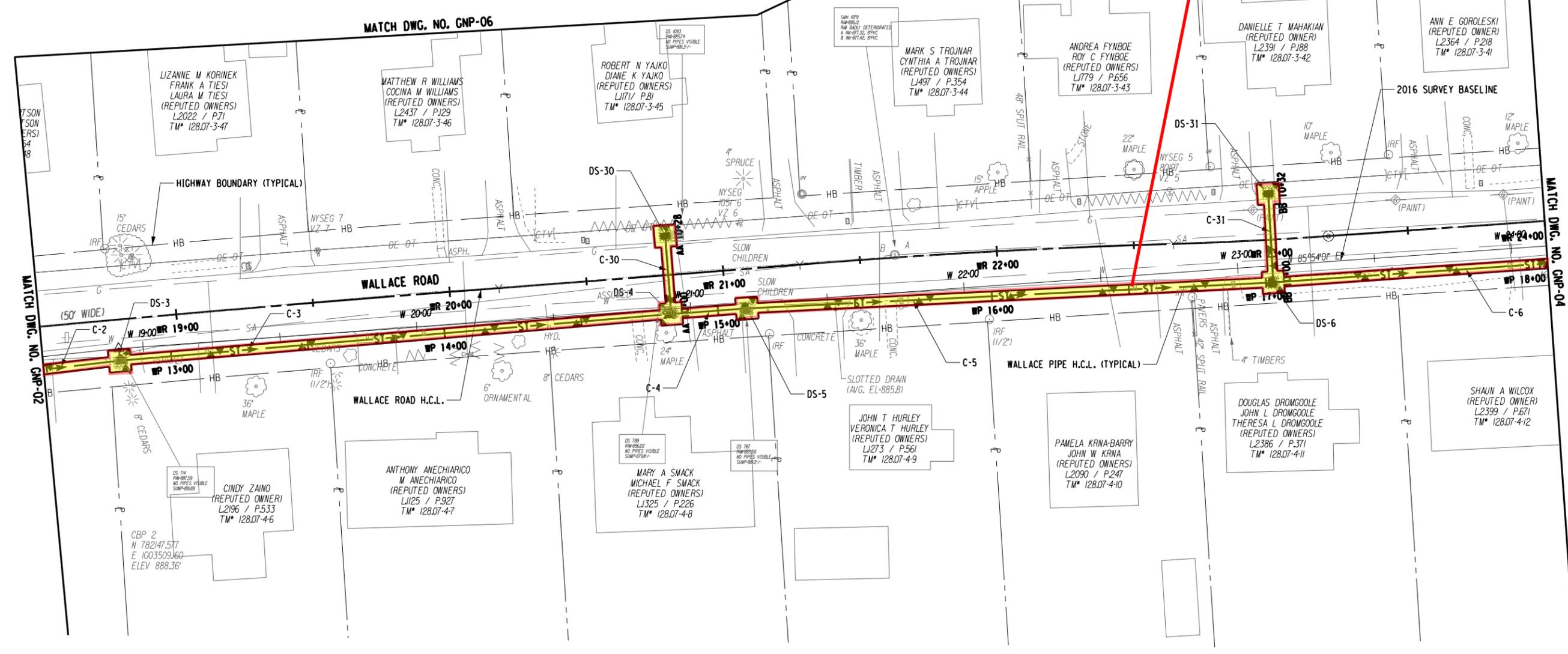
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

		SCALE AS SHOWN	DRAWING NO. GNP-02
		DATE NOVEMBER 2016	SHEET OF



Area of disturbance



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DESIGNED BY: JJM
CHECKED BY: SAS
IN CHARGE OF: JJM
DETAILED BY: SAS
CHECKED BY: CJM

TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM
GENERAL PLAN
WALLACE ROAD



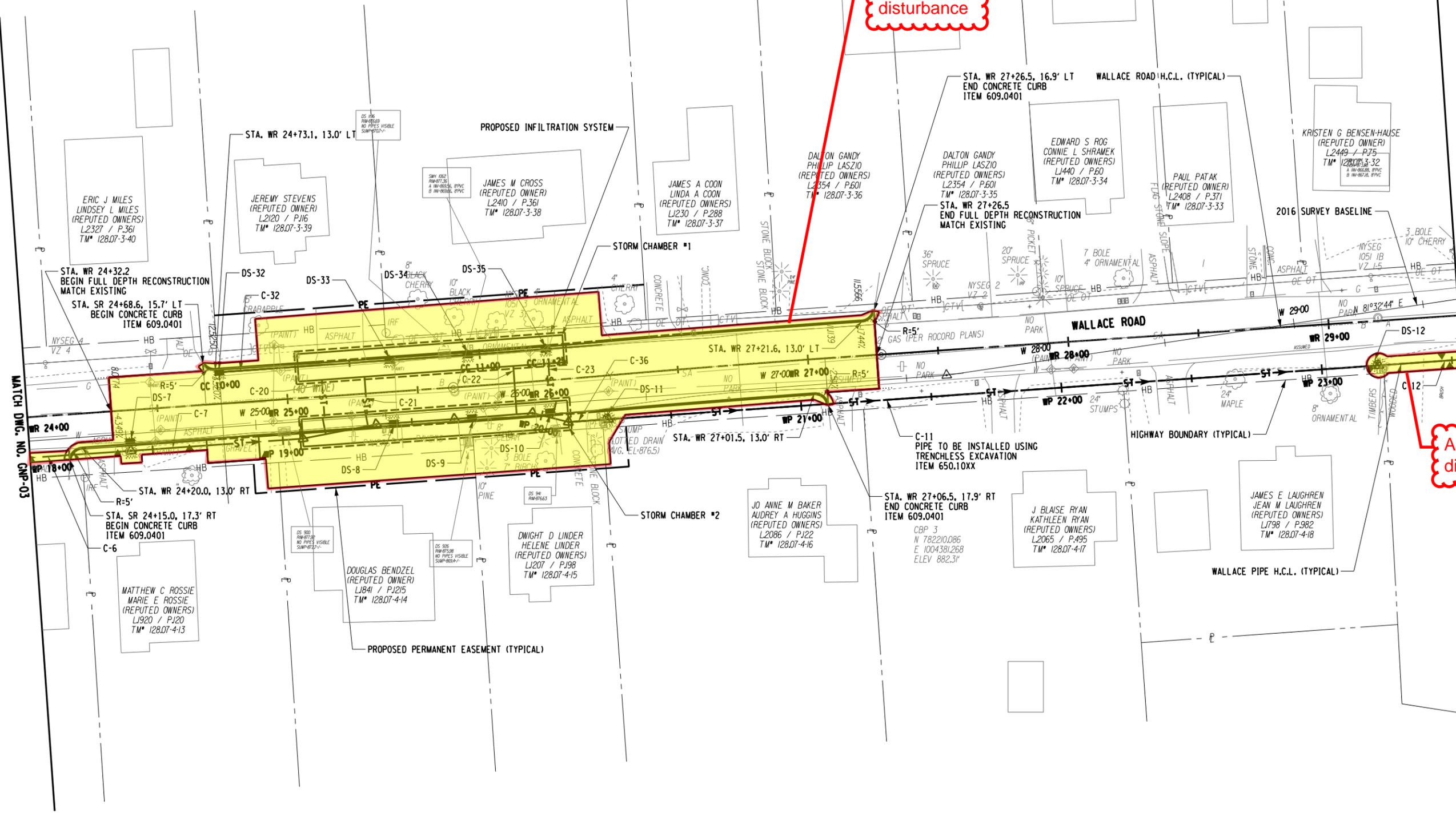
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		DATE NOVEMBER 2016	SHEET OF

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 DETAILED BY : SAS
 CHECKED BY : CJM



Area of disturbance

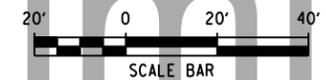
Area of disturbance



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

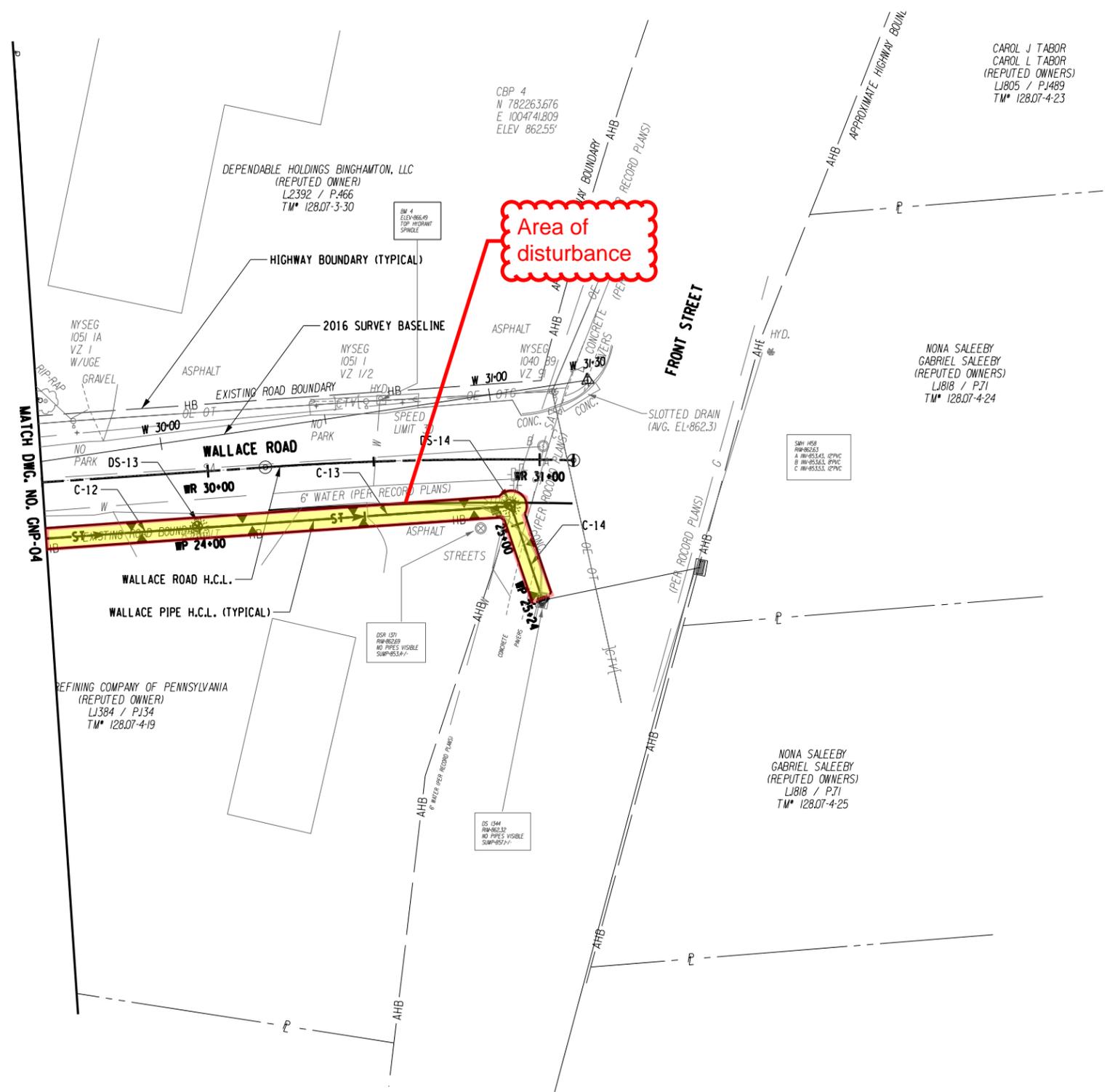
GENERAL PLAN
 WALLACE ROAD



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 CHECKED BY : CJM
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 CHECKED BY : CJM



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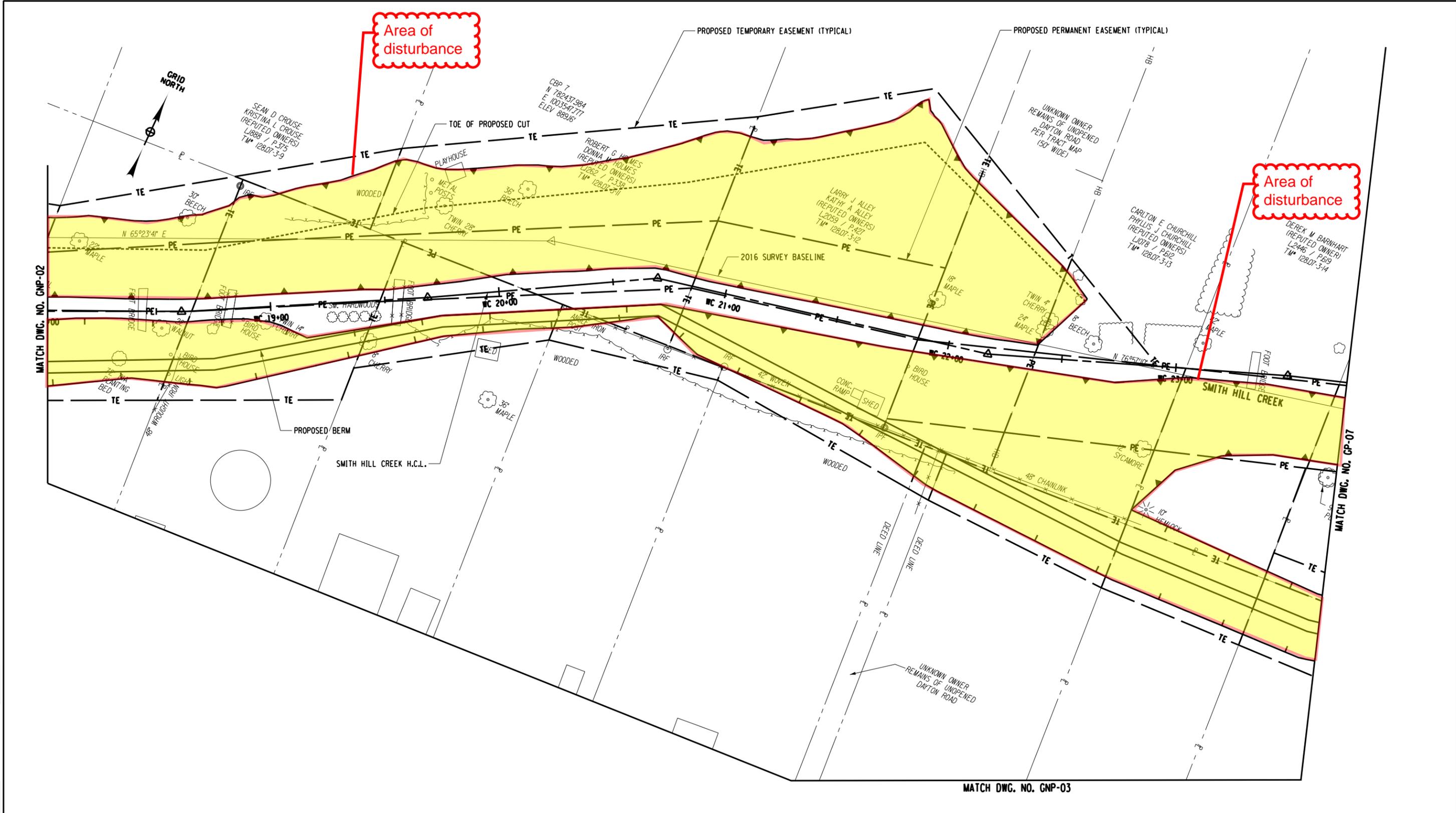
SCALE BAR

TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
WALLACE ROAD

		SCALE AS SHOWN	DRAWING NO. GNP-05
	DATE NOVEMBER 2016	SHEET OF	

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 MATCH DWG. NO. GP-07
 MATCH DWG. NO. GNP-03



Preliminary

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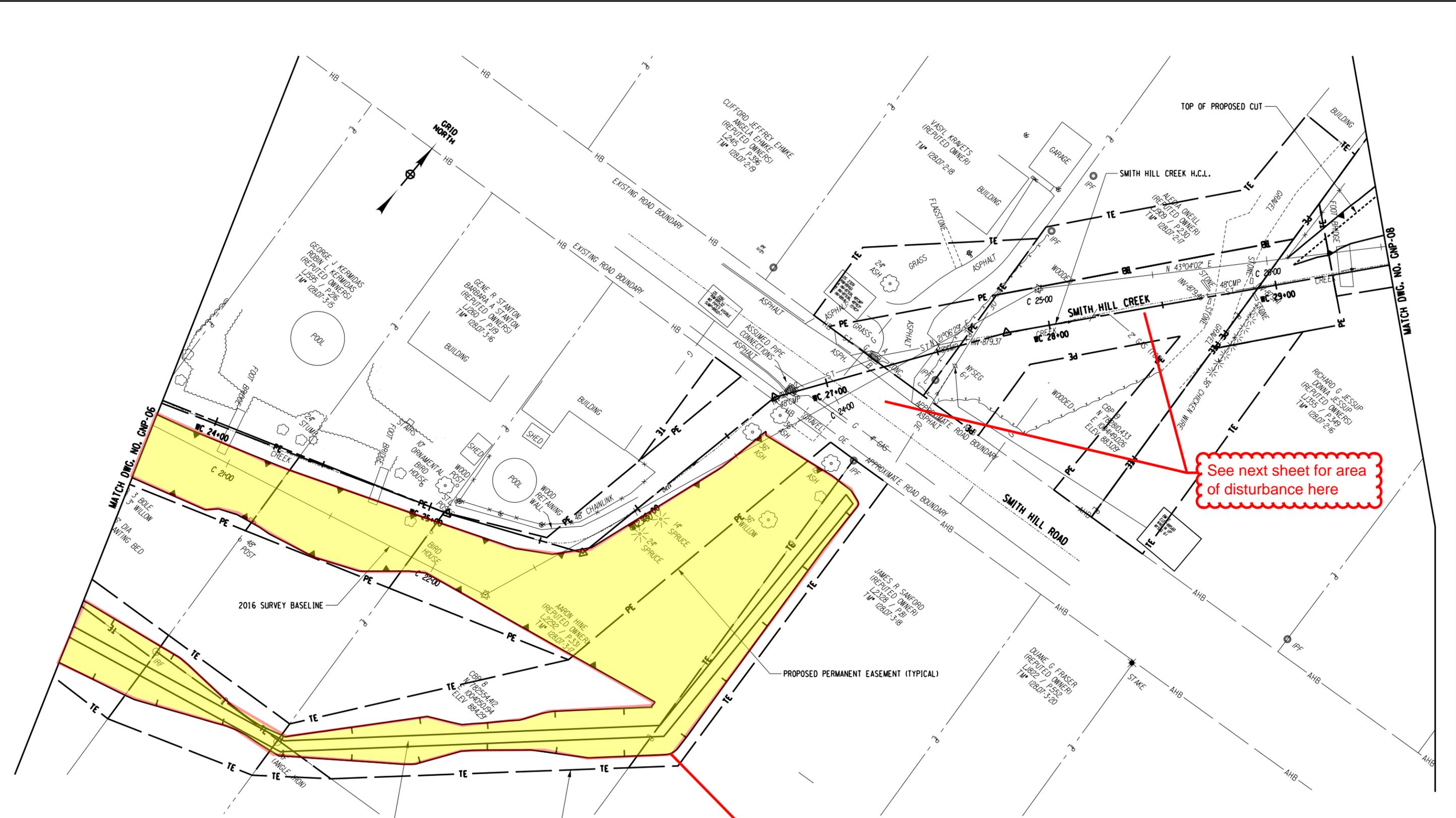
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**

	SCALE AS SHOWN	DRAWING NO. GNP-06
	DATE NOVEMBER 2016	SHEET OF

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 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



See next sheet for area of disturbance here

Area of disturbance



TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 SMITH HILL CREEK

		SCALE AS SHOWN	DRAWING NO. GNP-07
		DATE NOVEMBER 2016	SHEET OF

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 IN CHARGE OF : **COM** DESIGNED BY : **BNS** CHECKED BY : **COM** DETAILED BY : **BNS** CHECKED BY : **COM**



CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT RESURFACING STA. X+XX.XX

END PAVEMENT RESURFACING BEGIN PAVEMENT RECONSTRUCTION STA. X+XX.XX

STRUCTURE OPENING BEGINS STA. X+XX.XX 12'-8 1/2" STRUCTURE OPENING ENDS STA. X+XX.XX

END PAVEMENT RECONSTRUCTION BEGIN PAVEMENT RESURFACING STA. X+XX.XX

SILT FENCE ITEM 209.13 (TYP.)

EXISTING & PROPOSED GRAVEL DRIVEWAY

Area of disturbance

EXISTING STRUCTURE TO BE REMOVED, PAID UNDER ITEM 206.01

SAW CUT PAVEMENT, ITEM 520.09000010 IPF (1/2")

STATION LINE, H.C.L., & SMITH HILL ROAD

SMITH HILL ROAD

TO AIRPORT ROAD

TO NYS RT 11

SAW CUT PAVEMENT, ITEM 520.09000010

APPROXIMATE HIGHWAY BOUNDARY (TYP.)

APPROXIMATE PROPOSED TE (TYP.)

APPROXIMATE LOCATION OF OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES (SEE NOTE 2)

PROPOSED STRUCTURE - 4 SIDED CULVERT & CULVERT END SECTIONS

JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



NOTES:

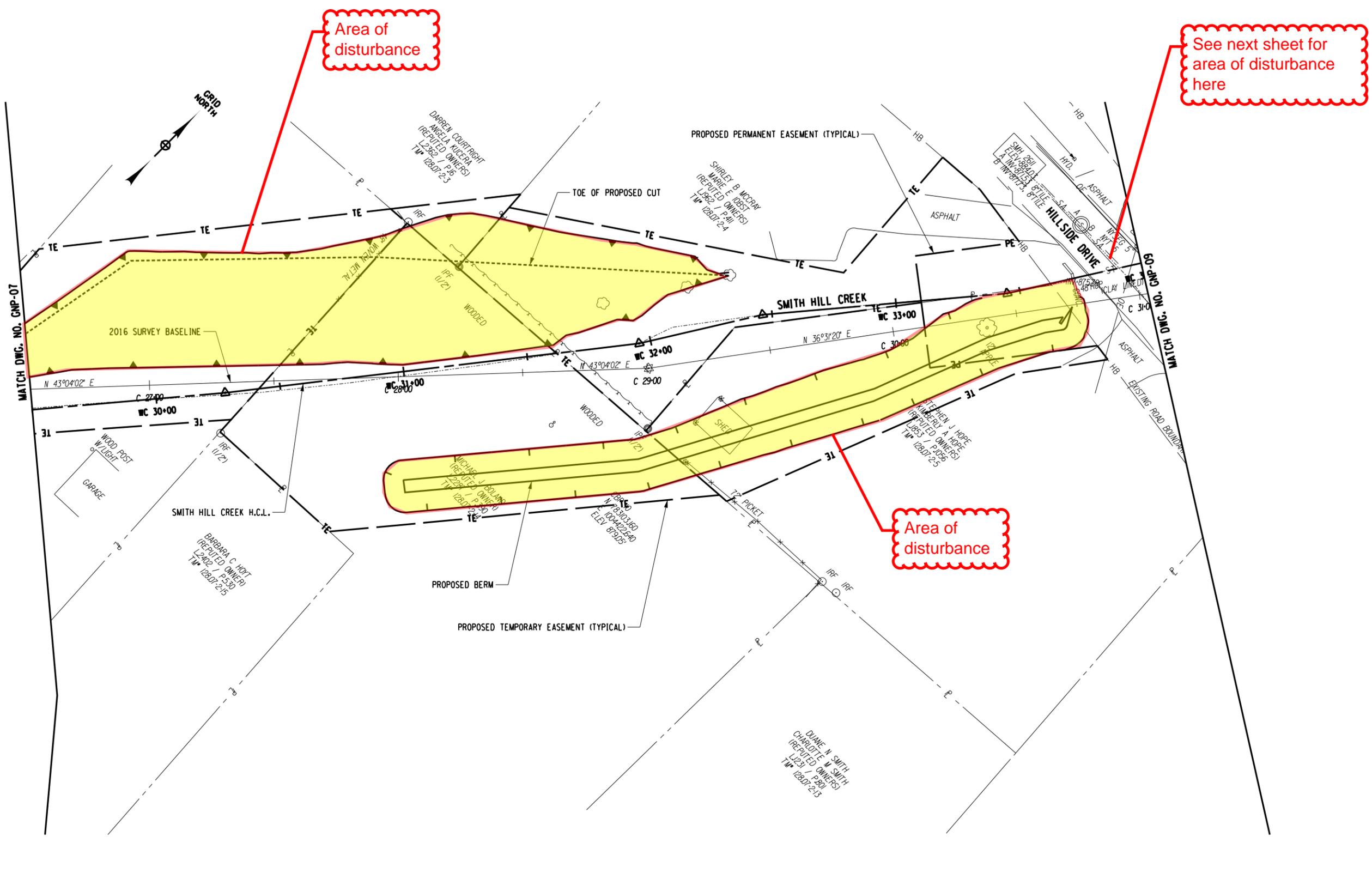
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- 2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD GENERAL PLAN

	SCALE AS SHOWN	DRAWING NO. ST1-XX
	DATE NOVEMBER 2016	SHEET XX OF

Preliminary



See next sheet for area of disturbance here

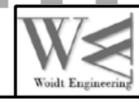
Area of disturbance

Area of disturbance

Preliminary



TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
SCALE AS SHOWN	DRAWING NO. GNP-08
DATE NOVEMBER 2016	SHEET OF



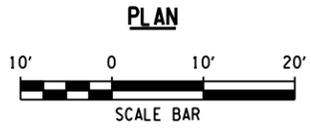
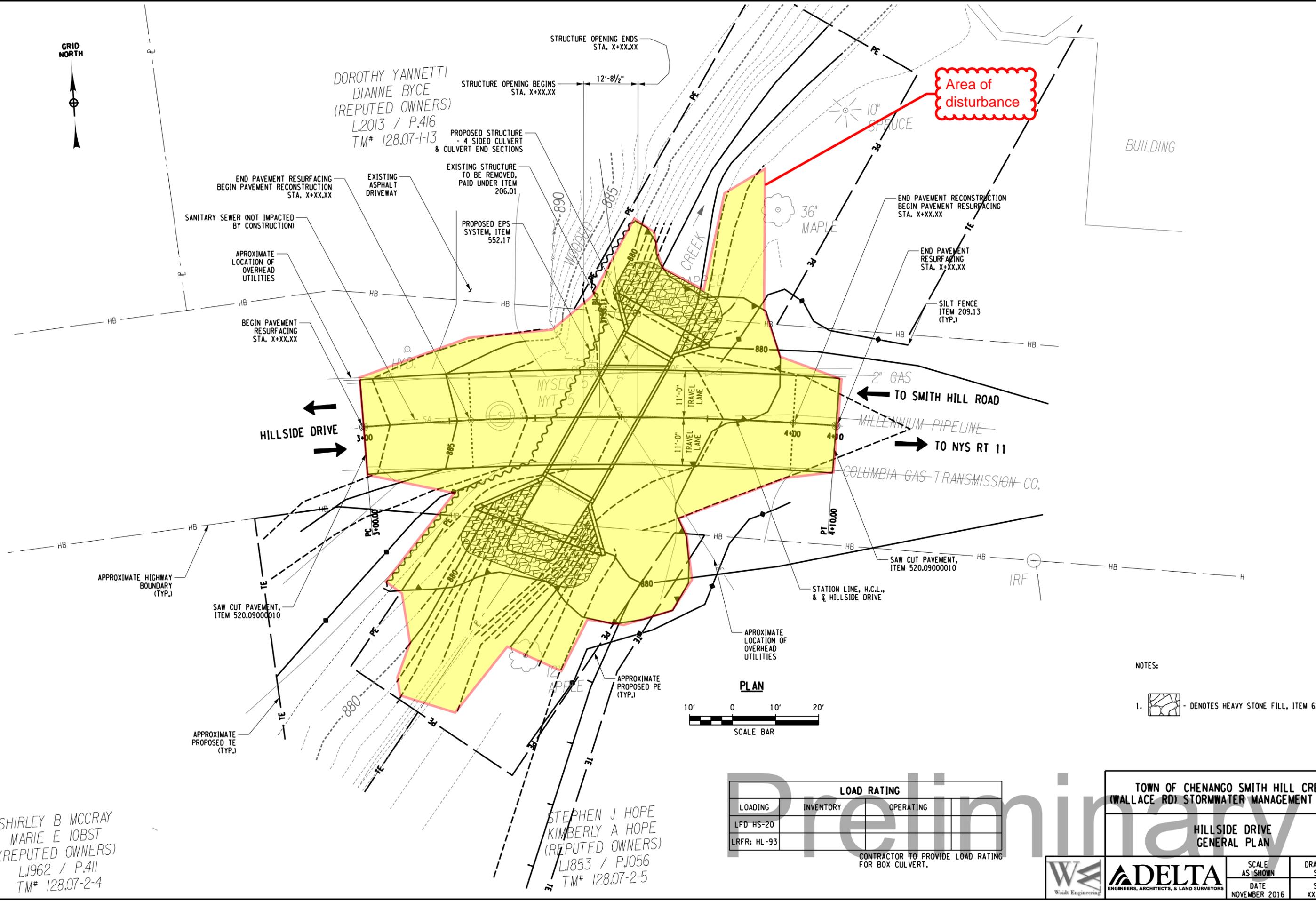
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SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.1056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.

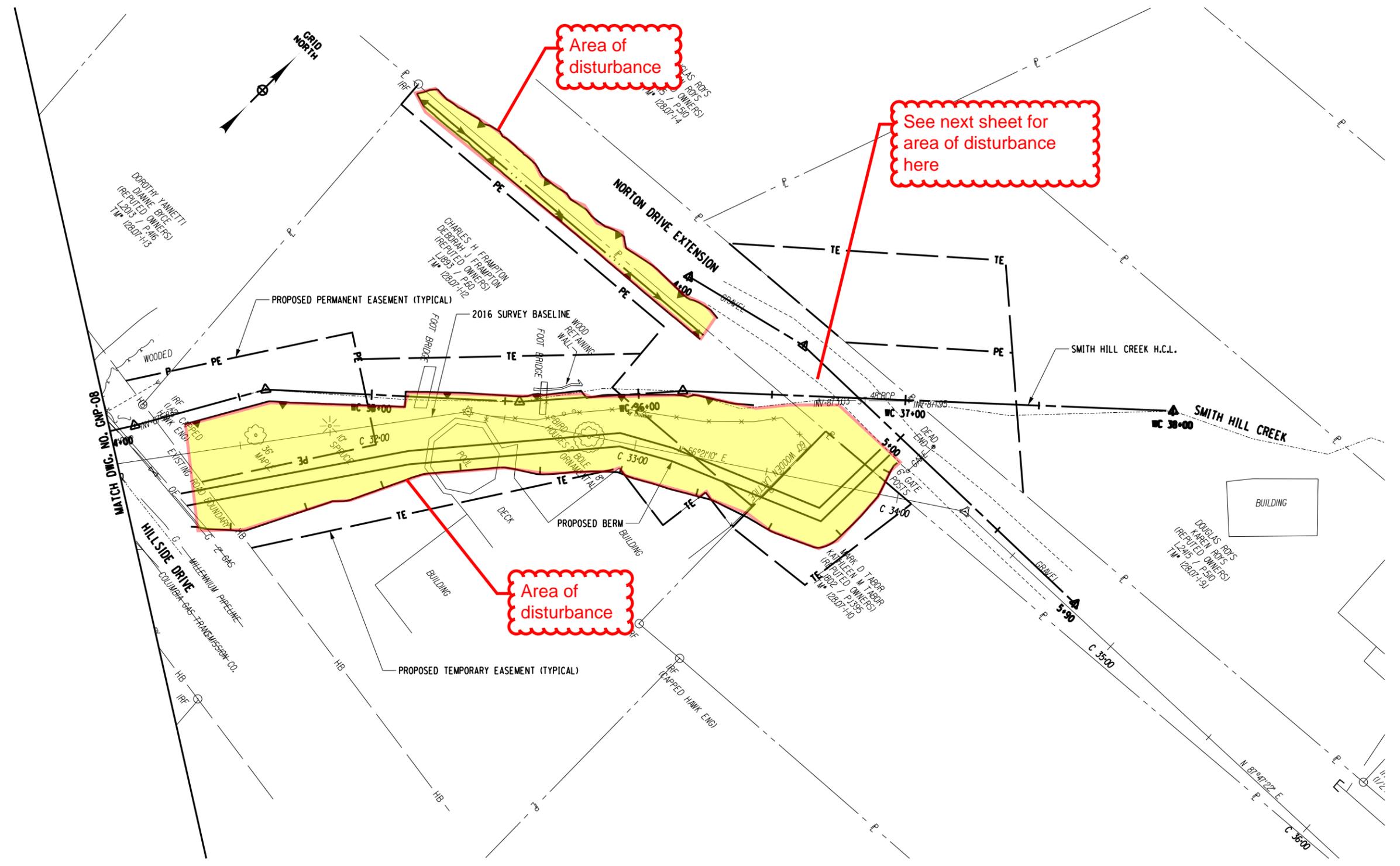
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LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

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TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

W&D Woidt Engineering	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
SCALE AS SHOWN	DRAWING NO. GNP-09
DATE NOVEMBER 2016	SHEET OF

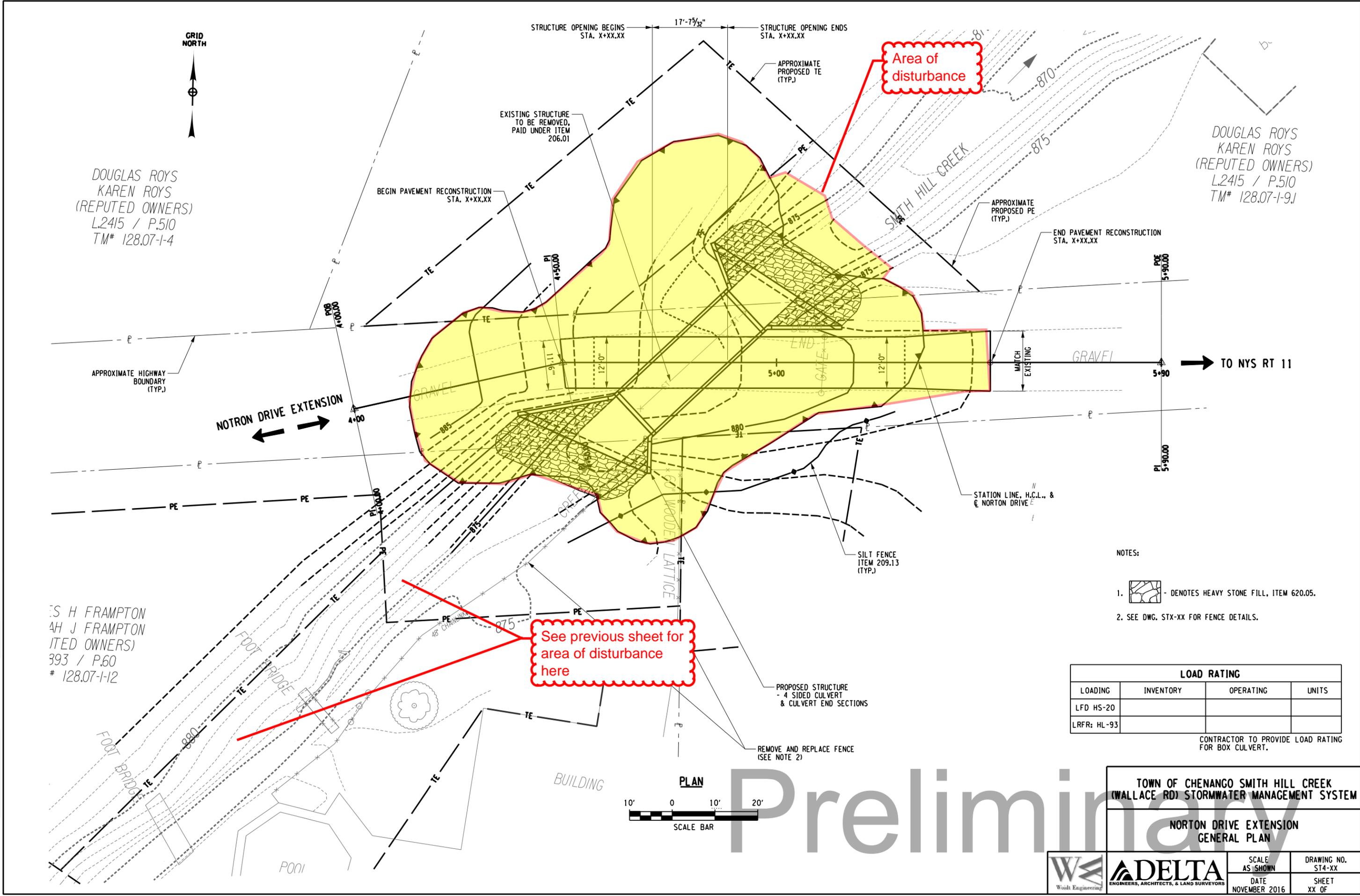
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IN CHARGE OF : **COM**
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DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
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LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



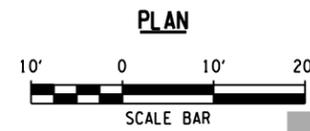
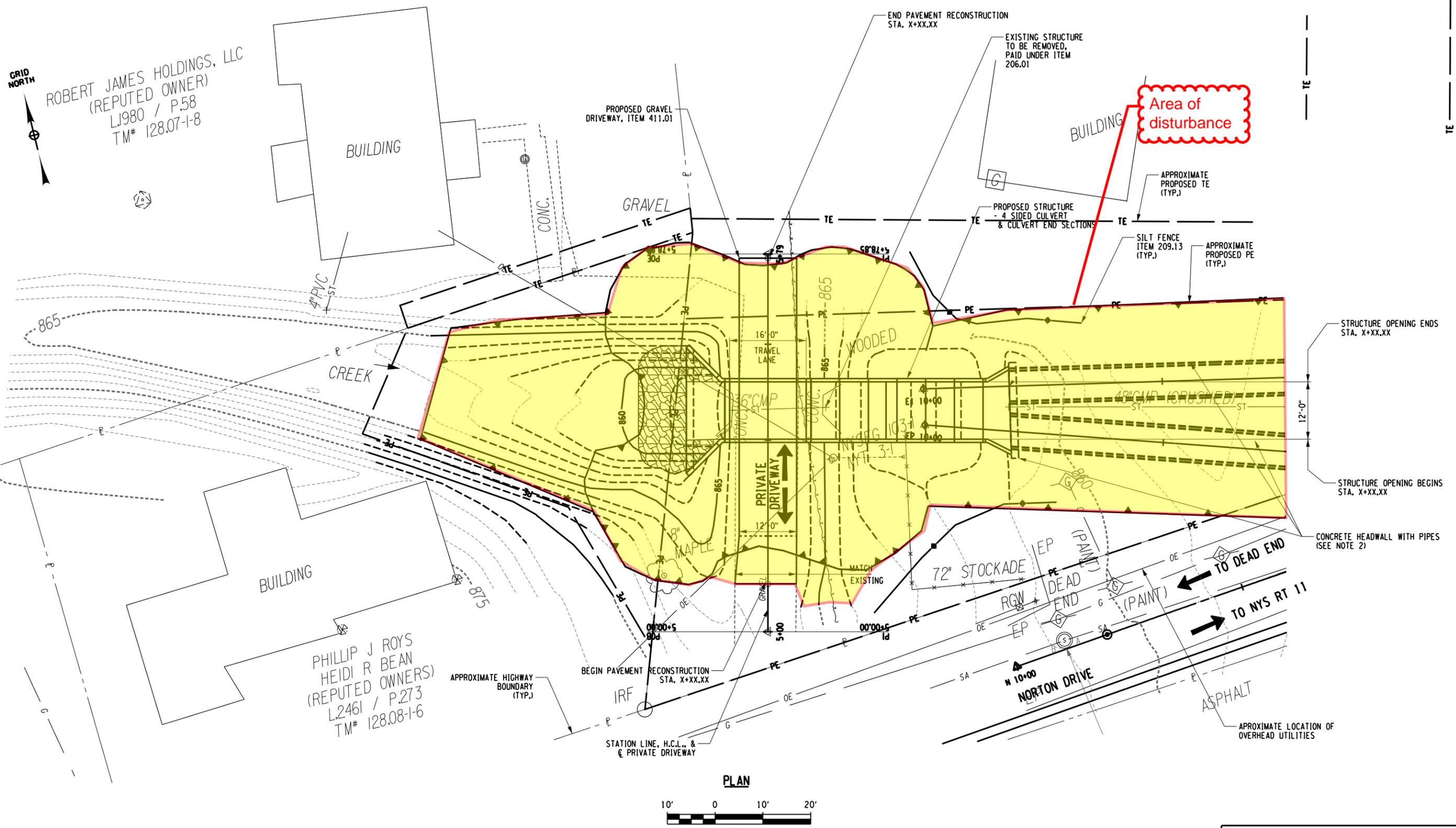
Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

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		DATE NOVEMBER 2016	SHEET XX OF

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 DETAILED BY : SAS
 CHECKED BY : CUM



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LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.
 - FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY
 GENERAL PLAN

SCALE AS SHOWN
 DATE NOVEMBER 2016

DRAWING NO. ST15-XX
 SHEET XX OF

W E Woldt Engineering
 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS

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ROBERT JAMES HOLDINGS, LLC
 (REPUTED OWNER)
 L1980 / P.58
 TM# 128.07-1-8

PHILLIP J ROYS
 HEIDI R BEAN
 (REPUTED OWNERS)
 L.2461 / P.273
 TM# 128.08-1-6

Area of disturbance

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 CHECKED BY: JJM
 IN CHARGE OF: JJM
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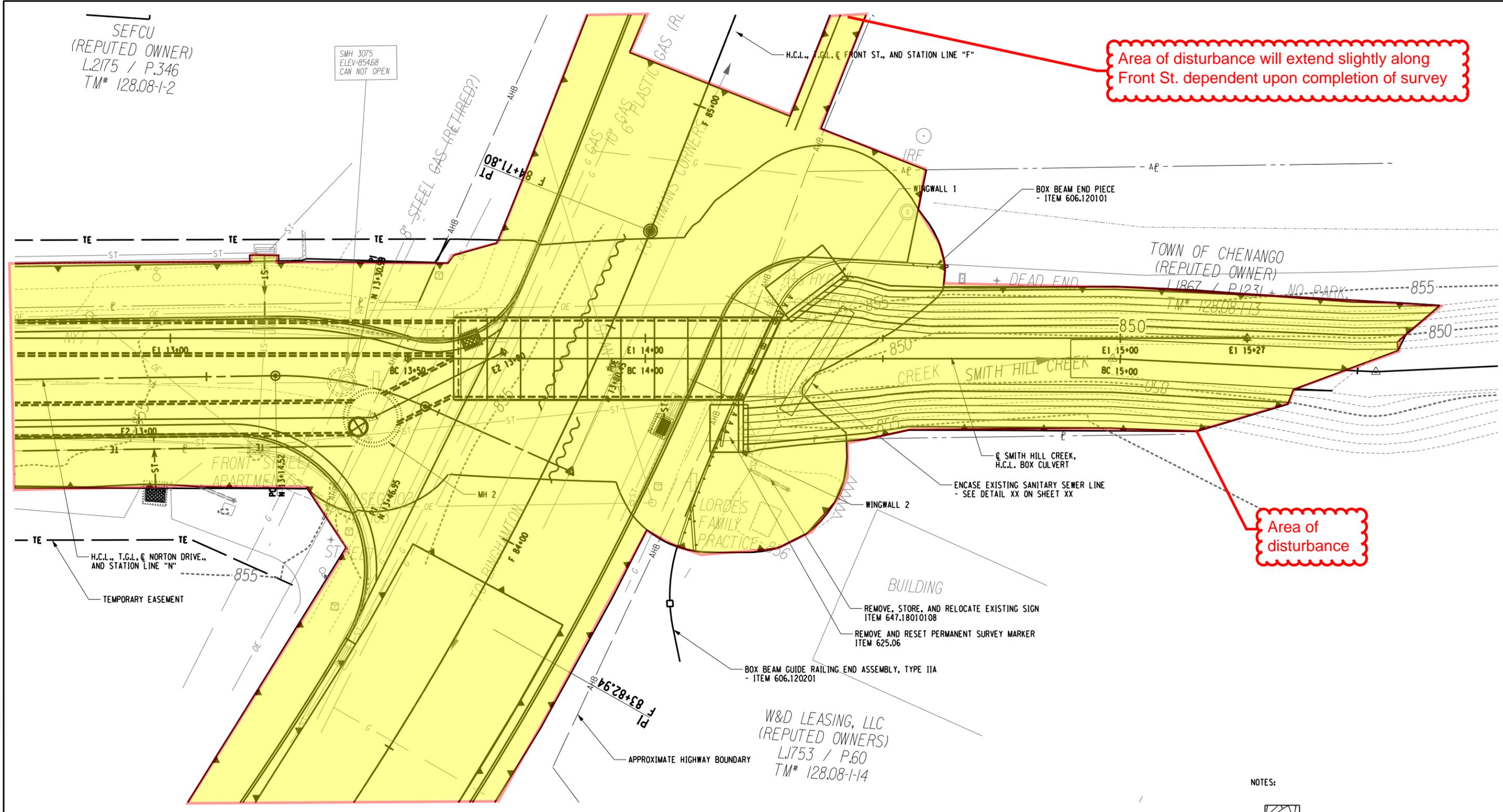
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 (REPUTED OWNER)
 L.2175 / P.346
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SMH 3075
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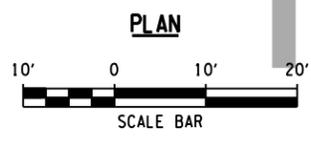
Area of disturbance will extend slightly along Front St. dependent upon completion of survey

Area of disturbance

Area of disturbance will extend slightly along Front St. dependent upon completion of survey

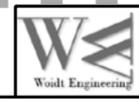


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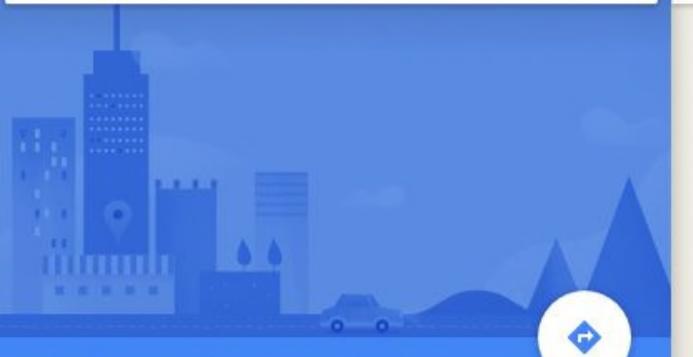


Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
FRONT STREET GENERAL PLAN	
SCALE AS SHOWN	DRAWING NO.
DATE NOVEMBER 2016	SHEET OF



Home Health Care Service



Lourdes Health Support LLC
Home Health Care Service

Directions

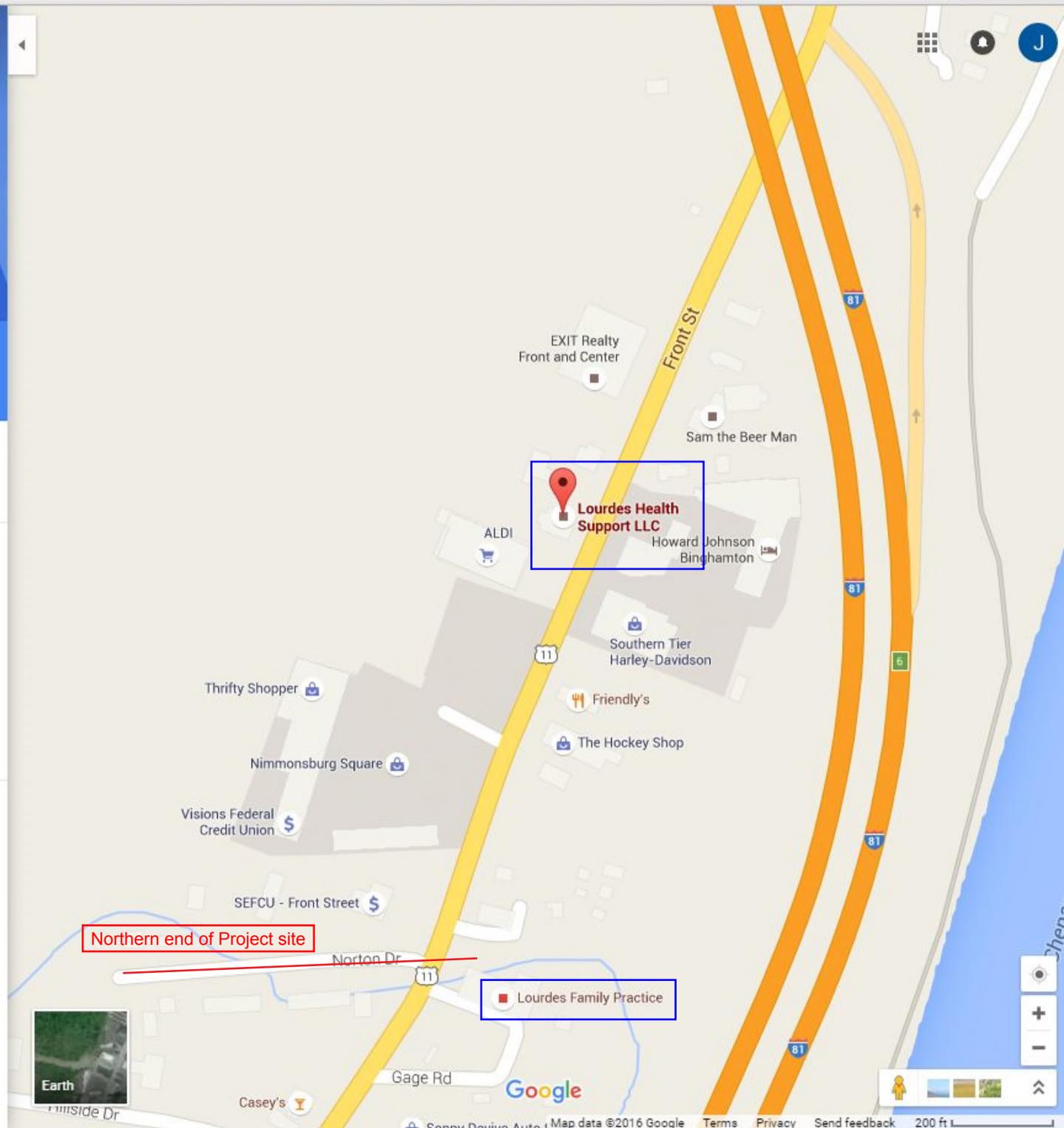
- SAVE
- NEARBY
- SEND TO YOUR PHONE
- SHARE

- 1155 Front St, Binghamton, NY 13905
- lourdes.com
- (607) 724-0115
- Claim this business
- Suggest an edit
- Add a label

Add missing information

- Add hours
- Add a photo

WRITE A REVIEW



Northern end of Project site

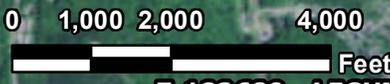
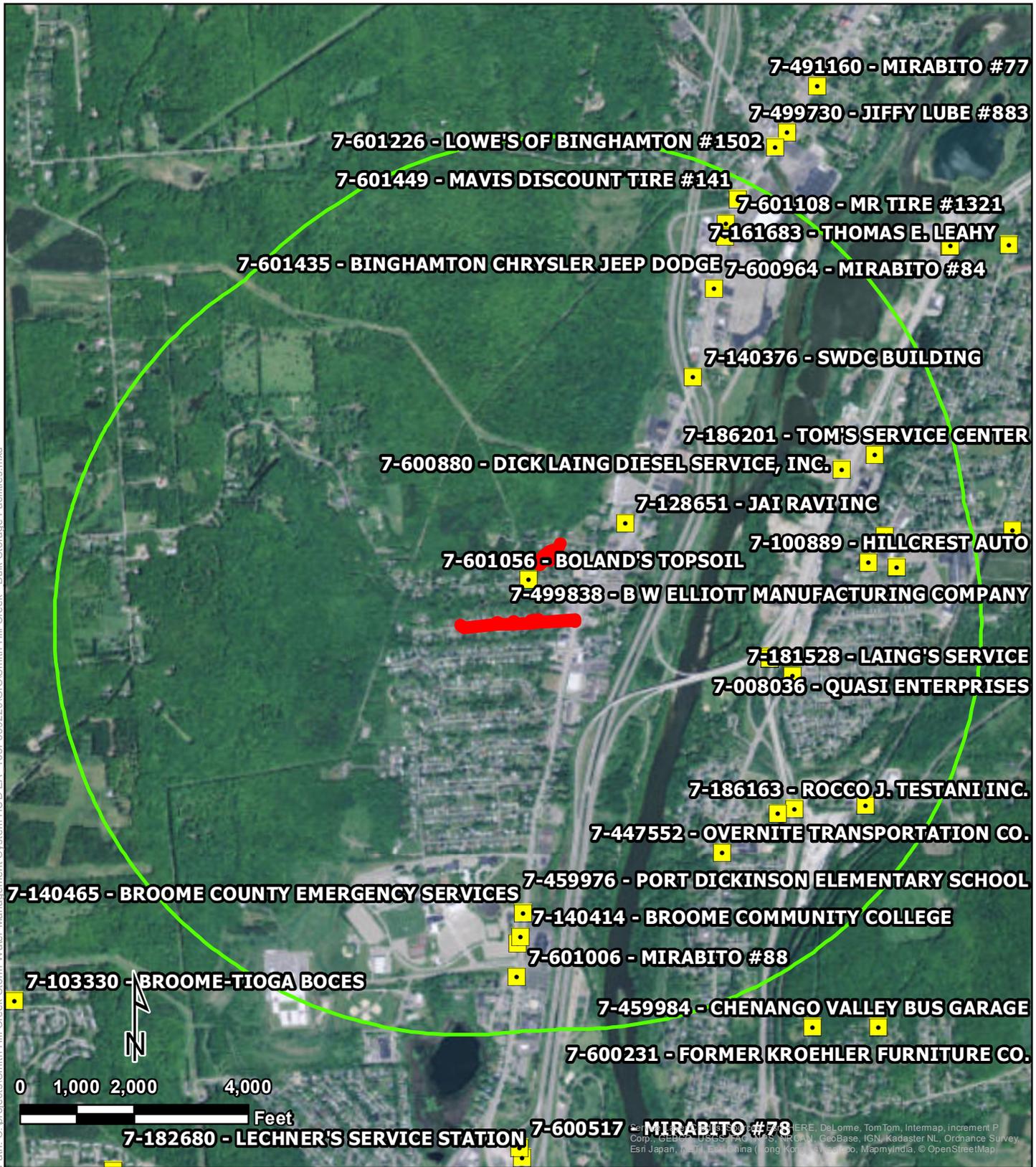
Lourdes Family Practice



Earth

Google

Path: C:\projects\Smith Hill Creek Storm Water Management System\HUD EA - 103P359220\GIS\Smith Hill Creek - Bulk Storage Facilities.mxd



Legend

Bulk Storage Facilities

- Chemical Bulk Storage
- Major Oil Storage Facility
- Petroleum Bulk Storage
- Project Area
- One Mile Project Site Buffer

Bulk Storage Facilities

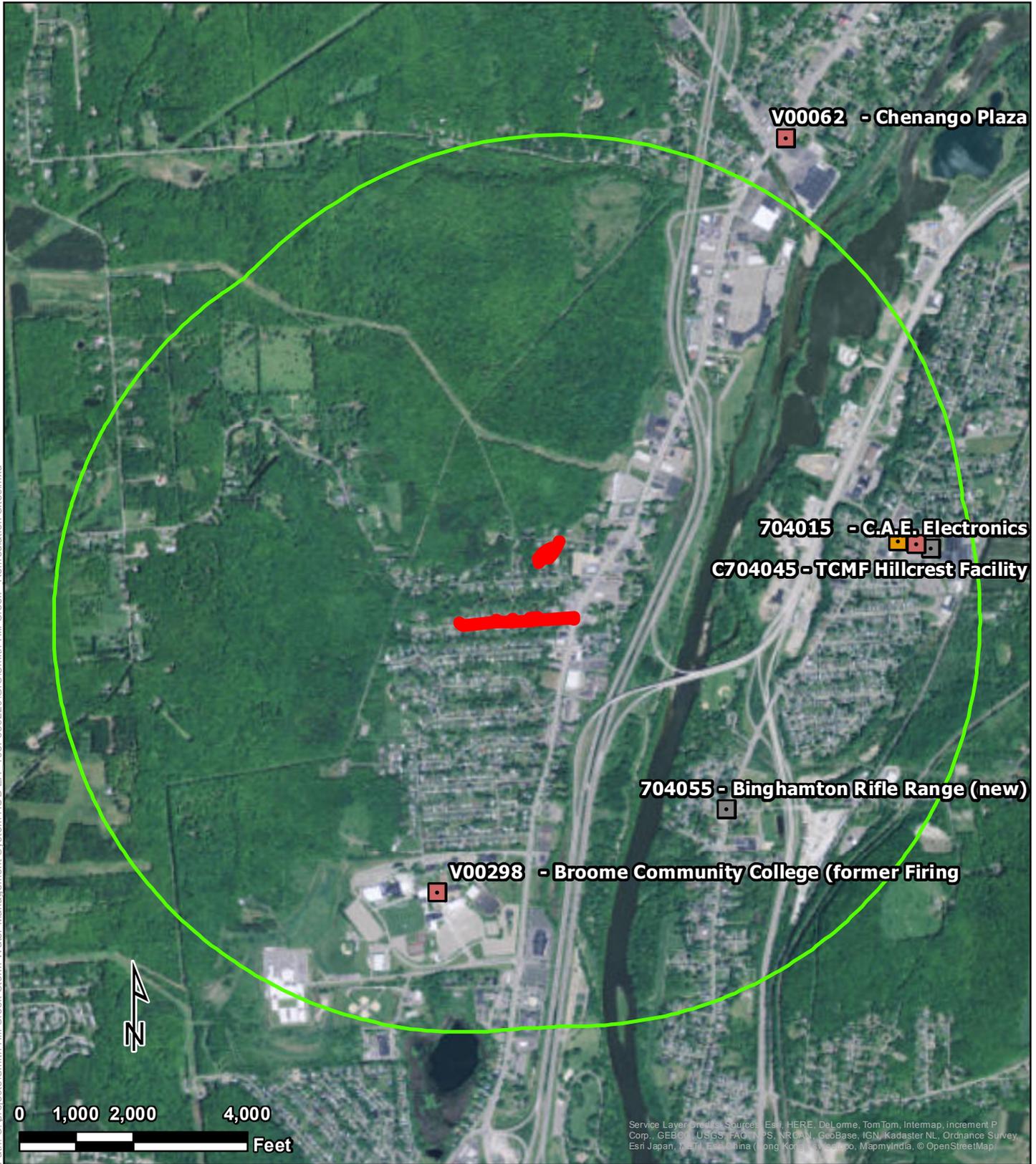
Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



Tetra Tech, Inc

Source: ESRI, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, Aero, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap

Path: C:\projects\Smith Hill Creek Storm Water Management System\HUD EA - 103P369220\GIS\Smith Hill Creek - Remediation Sites.mxd



Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swatch, MapmyIndia, © OpenStreetMap

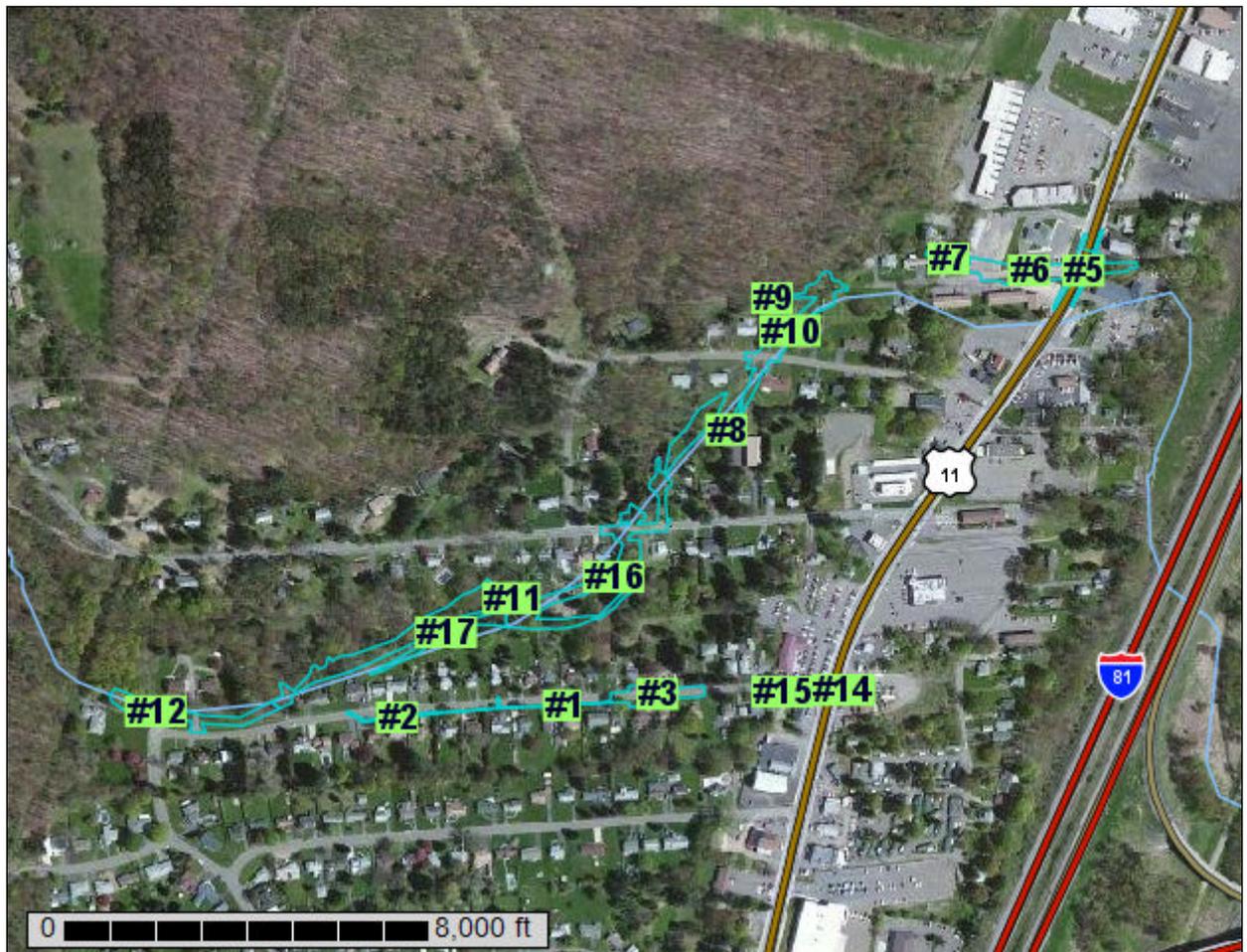
- Legend**
- Remediation Sites
- Brownfield Cleanup Program
 - Environmental Restoration Program
 - Resource Conservation and Recovery
 - State Superfund Program
 - Voluntary Cleanup Program
 - Project Area
 - One Mile Project Site Buffer

Remediation Sites

Smith Hill Creek Stormwater Management System
Smith Hill Creek, Wallace Avenue
Town of Chenango
Broome County, New York



Custom Soil Resource Report for Broome County, New York



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	14
Broome County, New York.....	16
Ad—Alluvial land.....	16
ChA—Chenango and Howard gravelly loams, 0 to 5 percent slopes.....	17
ChC—Chenango and Howard gravelly loams, 5 to 15 percent slopes.....	19
MhD—Bath channery silt loam, 15 to 25 percent slopes.....	21
UnB—Unadilla silt loam, 0 to 5 percent slopes.....	23
Wd—Wayland soils complex, 0 to 3 percent slopes, frequently flooded.....	24
References	27

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

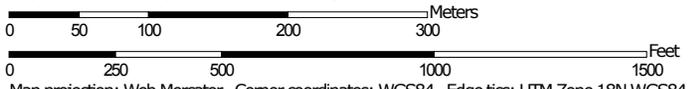
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:5,390 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Broome County, New York
 Survey Area Data: Version 14, Sep 23, 2016

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 10, 2011—Oct 8, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

#1, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.9%
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.0%
Subtotals for #1		0.0	0.9%
Totals for Area of Interest		4.8	100.0%

#10, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.0%
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.6	11.5%
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.0%
Subtotals for #10		0.6	11.5%
Totals for Area of Interest		4.8	100.0%

#11, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.6%
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.0%
Subtotals for #11		0.0	0.6%
Totals for Area of Interest		4.8	100.0%

#12, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ad	Alluvial land	0.4	8.9%
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.0%
Subtotals for #12		0.4	8.9%
Totals for Area of Interest		4.8	100.0%

#13, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ad	Alluvial land	0.0	0.0%
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.0%

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#13, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.9	18.2%
Subtotals for #13		0.9	18.2%
Totals for Area of Interest		4.8	100.0%

#14, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.3%
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.0	0.0%
Subtotals for #14		0.0	0.3%
Totals for Area of Interest		4.8	100.0%

#15, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.0	0.4%
Subtotals for #15		0.0	0.4%
Totals for Area of Interest		4.8	100.0%

#16, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	1.4	28.3%
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.0%
Subtotals for #16		1.4	28.3%
Totals for Area of Interest		4.8	100.0%

#17, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.2	3.5%
Subtotals for #17		0.2	3.5%
Totals for Area of Interest		4.8	100.0%

#2, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.1	1.2%
Subtotals for #2		0.1	1.2%
Totals for Area of Interest		4.8	100.0%

Custom Soil Resource Report

#3, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.0%
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.3	6.8%
Subtotals for #3		0.3	6.8%
Totals for Area of Interest		4.8	100.0%

#4, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.2	3.9%
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.0	0.0%
Subtotals for #4		0.2	3.9%
Totals for Area of Interest		4.8	100.0%

#5, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UnB	Unadilla silt loam, 0 to 5 percent slopes	0.0	0.0%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	0.3	6.9%
Subtotals for #5		0.3	6.9%
Totals for Area of Interest		4.8	100.0%

#6, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.0	0.0%
UnB	Unadilla silt loam, 0 to 5 percent slopes	0.2	4.1%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	0.0	0.0%
Subtotals for #6		0.2	4.1%
Totals for Area of Interest		4.8	100.0%

#7, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.2	3.2%
Subtotals for #7		0.2	3.2%
Totals for Area of Interest		4.8	100.0%

Custom Soil Resource Report

#8, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ChA	Chenango and Howard gravelly loams, 0 to 5 percent slopes	0.1	1.3%
ChC	Chenango and Howard gravelly loams, 5 to 15 percent slopes	0.0	0.0%
Subtotals for #8		0.1	1.3%
Totals for Area of Interest		4.8	100.0%

#9, Broome County, New York (NY007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MhD	Bath channery silt loam, 15 to 25 percent slopes	0.0	0.2%
Subtotals for #9		0.0	0.2%
Totals for Area of Interest		4.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

Custom Soil Resource Report

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Broome County, New York

Ad—Alluvial land

Map Unit Setting

National map unit symbol: 9pww
Elevation: 100 to 3,000 feet
Mean annual precipitation: 36 to 45 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Fluvaquents and similar soils: 50 percent
Udifuvents and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fluvaquents

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Alluvium with highly variable texture

Typical profile

H1 - 0 to 5 inches: gravelly silt loam
H2 - 5 to 70 inches: gravelly silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very high (0.06 to 19.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Description of Udifuvents

Setting

Landform: Flood plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Talf

Custom Soil Resource Report

Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Alluvium with a wide range of texture

Typical profile

H1 - 0 to 4 inches: very gravelly loam
H2 - 4 to 70 inches: very gravelly sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very high (0.06 to 19.98 in/hr)
Depth to water table: About 24 to 72 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Tioga

Percent of map unit: 5 percent
Hydric soil rating: No

Chenango

Percent of map unit: 5 percent
Hydric soil rating: No

Wayland

Percent of map unit: 5 percent
Landform: Flood plains
Hydric soil rating: Yes

Middlebury

Percent of map unit: 5 percent
Hydric soil rating: No

ChA—Chenango and Howard gravelly loams, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 9px4
Elevation: 600 to 1,800 feet
Mean annual precipitation: 36 to 45 inches

Custom Soil Resource Report

Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 110 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Chenango and similar soils: 50 percent
Howard and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chenango

Setting

Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone

Typical profile

H1 - 0 to 5 inches: gravelly loam
H2 - 5 to 29 inches: very gravelly loam
H3 - 29 to 60 inches: very gravelly coarse sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 1 percent
Available water storage in profile: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Hydric soil rating: No

Description of Howard

Setting

Landform: Terraces, valley trains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone

Typical profile

H1 - 0 to 7 inches: gravelly loam

Custom Soil Resource Report

H2 - 7 to 15 inches: gravelly loam
H3 - 15 to 40 inches: very gravelly loam
H4 - 40 to 60 inches: stratified sand to gravel

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Scio

Percent of map unit: 5 percent
Hydric soil rating: No

Tioga

Percent of map unit: 5 percent
Hydric soil rating: No

Unadilla

Percent of map unit: 5 percent
Hydric soil rating: No

Braceville

Percent of map unit: 5 percent
Hydric soil rating: No

ChC—Chenango and Howard gravelly loams, 5 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9px5
Elevation: 600 to 1,800 feet
Mean annual precipitation: 36 to 45 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Chenango and similar soils: 50 percent

Howard and similar soils: 30 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chenango

Setting

Landform: Terraces, valley trains

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone

Typical profile

H1 - 0 to 5 inches: gravelly loam

H2 - 5 to 29 inches: very gravelly loam

H3 - 29 to 60 inches: very gravelly coarse sand

Properties and qualities

Slope: 5 to 15 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Available water storage in profile: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Hydric soil rating: No

Description of Howard

Setting

Landform: Terraces, valley trains

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone

Typical profile

H1 - 0 to 7 inches: gravelly loam

H2 - 7 to 15 inches: gravelly loam

H3 - 15 to 40 inches: very gravelly loam

H4 - 40 to 60 inches: stratified sand to gravel

Custom Soil Resource Report

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Tioga

Percent of map unit: 5 percent
Hydric soil rating: No

Unadilla

Percent of map unit: 5 percent
Hydric soil rating: No

Braceville

Percent of map unit: 5 percent
Hydric soil rating: No

Mardin

Percent of map unit: 5 percent
Hydric soil rating: No

MhD—Bath channery silt loam, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2v316
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Bath and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bath

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale

Typical profile

Ap - 0 to 9 inches: channery silt loam

Bw1 - 9 to 15 inches: channery silt loam

Bw2 - 15 to 25 inches: channery loam

E - 25 to 29 inches: channery loam

Bx - 29 to 52 inches: very channery silt loam

C - 52 to 72 inches: very channery silt loam

Properties and qualities

Slope: 15 to 25 percent

Percent of area covered with surface fragments: 0.0 percent

Depth to restrictive feature: 26 to 38 inches to fragipan

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 24 to 36 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Available water storage in profile: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Hydric soil rating: No

Minor Components

Lordstown

Percent of map unit: 10 percent

Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountaintop, side slope, nose slope

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Mardin

Percent of map unit: 5 percent

Landform: Hills, mountains

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

UnB—Unadilla silt loam, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 9pyd
Elevation: 600 to 1,800 feet
Mean annual precipitation: 36 to 45 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 110 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Unadilla and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Unadilla

Setting

Landform: Lake plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 32 inches: very fine sandy loam
H3 - 32 to 52 inches: very fine sandy loam
H4 - 52 to 72 inches: gravelly sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum in profile: 1 percent
Available water storage in profile: High (about 10.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Tioga

Percent of map unit: 5 percent
Hydric soil rating: No

Wallington

Percent of map unit: 5 percent
Hydric soil rating: No

Chenango

Percent of map unit: 5 percent
Hydric soil rating: No

Scio

Percent of map unit: 5 percent
Hydric soil rating: No

Wd—Wayland soils complex, 0 to 3 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 2srgv
Elevation: 160 to 1,970 feet
Mean annual precipitation: 31 to 68 inches
Mean annual air temperature: 43 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wayland and similar soils: 60 percent
Wayland, very poorly drained, and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wayland

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and clayey alluvium derived from interbedded sedimentary rock

Typical profile

A - 0 to 6 inches: silt loam
Bg1 - 6 to 12 inches: silt loam
Bg2 - 12 to 18 inches: silt loam
C1 - 18 to 46 inches: silt loam
C2 - 46 to 72 inches: silty clay loam

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very high (about 12.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Description of Wayland, Very Poorly Drained

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Silty and clayey alluvium derived from interbedded sedimentary rock

Typical profile

A - 0 to 6 inches: mucky silt loam
Bg1 - 6 to 12 inches: silt loam
Bg2 - 12 to 18 inches: silt loam
C1 - 18 to 46 inches: silt loam
C2 - 46 to 72 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.14 to 14.17 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Frequent
Frequency of ponding: Frequent
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very high (about 12.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components

Wakeville

Percent of map unit: 10 percent

Landform: Flood plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Talf

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

References

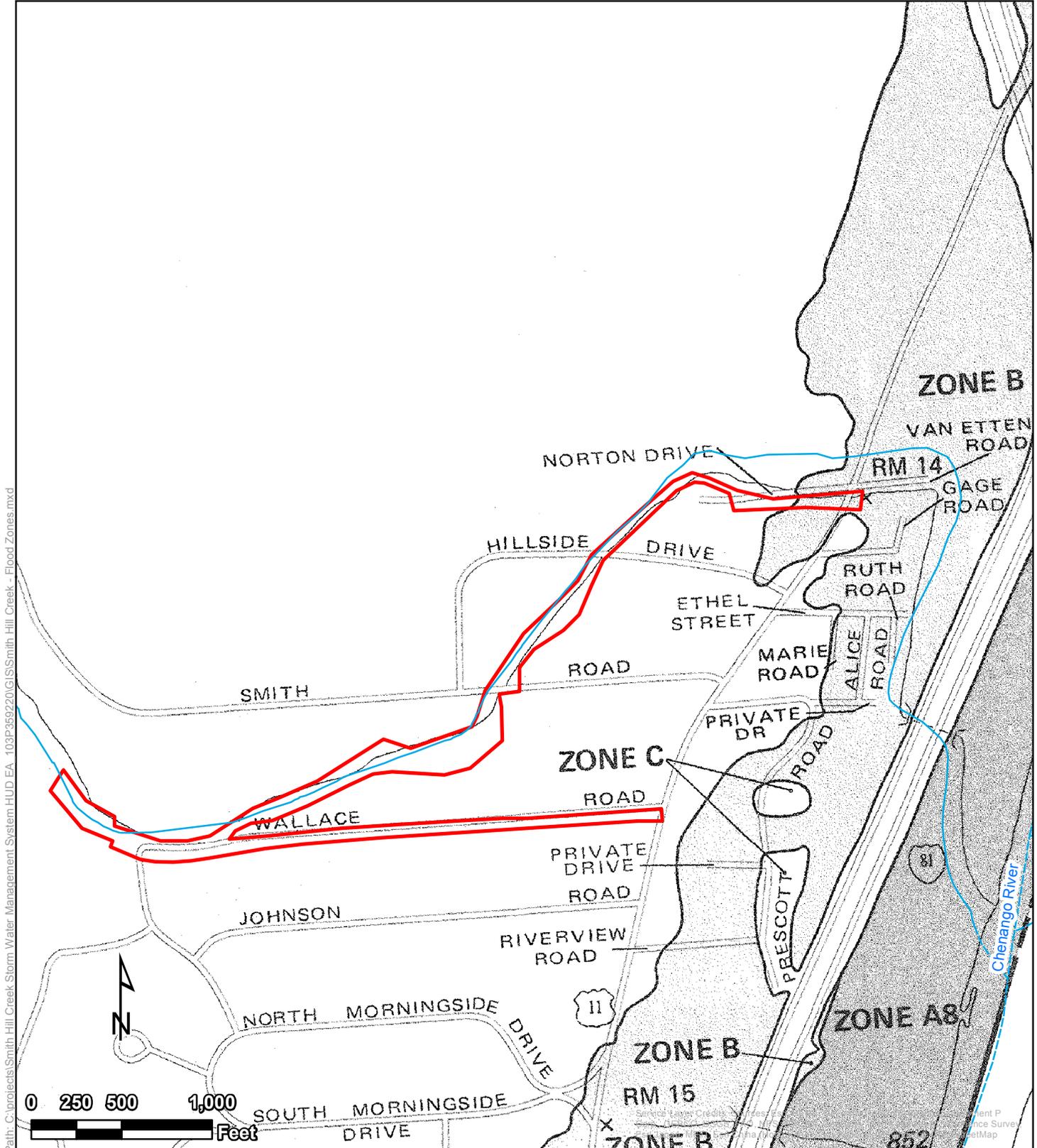
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Custom Soil Resource Report

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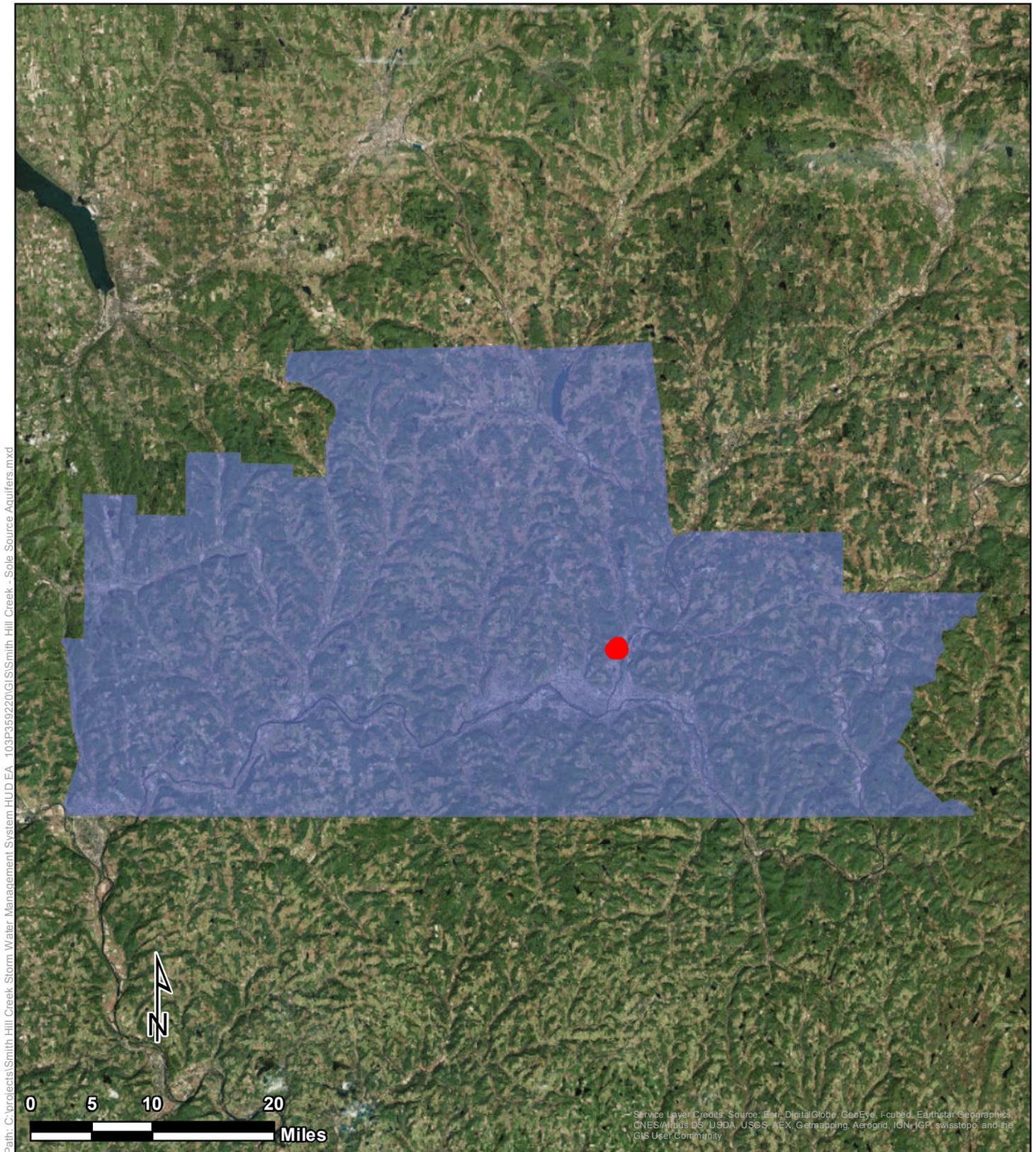


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Flood Zones

Legend
 Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York



Sole Source Aquifers

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

Legend

- Project Area
- Clinton Street Ballpark SSA



Tetra Tech, Inc



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

FEB 22 2017

Ms. Alicia Shultz
Senior Environmental Scientist
Governor's Office of Storm Recovery
New York State Homes & Community Renewal
38-40 State Street, 408N
Hampton Plaza
Albany, NY 12207

Dear Ms. Shultz:

This is in response to your February 3, 2017 letter to the U.S. Environmental Protection Agency (EPA) requesting a Sole Source Aquifer review of the proposed "Smith Hill Creek Stormwater Management System" project located in the Town of Chenango, Broome County, New York. The project is to receive funding from the U.S. Department of Housing and Urban Development's Community Development Block Grant - Disaster Relief program (CDBG-DR). The project site is located in the Clinton Street Ballpark Aquifer System, designated by the EPA as a Sole Source Aquifer on January 14, 1985 (citation 50 CFR 2025). Therefore, our review has been conducted in accordance with Section 1424(e) of the Safe Drinking Water Act (SDWA).

The unincorporated hamlet of Nimmonsburg in the Town of Chenango consists of a relatively flat, residential area that is bounded on the north/northwest by a steep hill. We note that in response to the flooding of many residences in that neighborhood around the 1940s-1950s, Smith Hill Creek, a manmade stream, was introduced to intercept the runoff from the hill. This intermittent creek has a natural bottom of varying width – from a zero-width "V-ditch" to a flat-bottom ditch 5 feet to 6 feet wide. We understand that due to the severity of more recent storms, additional stormwater management is needed. The proposed project will take place along Smith Hill Creek between Hillside Drive and Wallace Road as well as drainage improvements along Wallace Road. The information provided states that as it currently stands, the creek and its associated stormwater management components consist of underground pipes of varying sizes and materials as well as open swales and culverts that wind through the residential neighborhood, and eventually empty into a Broome County-managed stormwater system along Front Street, and then into the Chenango River. We note that the project would disturb approximately 4.8 acres. It is our understanding that since the project footprint is greater than one acre, a State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges would be obtained for the construction activities.

The project includes a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The project involves upsizing culverts, debris catchment structures, drainage piping, and trash racks along Smith Hill Creek and includes the following:

- A debris basin located slightly upstream of the existing pipe at the beginning of the project on Smith Hill Creek. The basin width will be significantly wider than the stream, slowing the velocity of the flow. As the velocity decreases, the debris will settle out and drop, reducing the potential for obstructing the pipes just downstream.
- In order to increase the capacity of Smith Hill Creek and to keep water flowing along the creek rather than onto residential property, a series of berms and benches (stepped slopes), approximately 2 to 3 feet high, will be built along Smith Hill Creek – berms on the south side, vegetated benches on the north side.
- Where roads cross Smith Hill Creek, a total of five box culverts of pre-cast concrete will replace existing culverts of lower capacity. In addition, a 60-inch diameter reinforced concrete pipe running parallel to an existing 48-inch diameter pipe will be installed at the portion of the project furthest upstream. A parallel reinforced-concrete elliptical pipe will be installed at the location furthest downstream – where the creek crosses under Route 11. Once the water flows under Route 11, it travels along a ditch to an open stormwater management area between Route 11 and Interstate 81. The pipes running beneath Route 11 are designed to withstand expected traffic loads.
- Along Wallace Road, several new catch basins will replace existing ones and be connected by means of a 15-inch diameter smooth-interior, corrugated plastic pipe (SICPP). Stormwater will be delivered under gravity flow to an infiltration basin near the eastern end of the road, slightly west of Front Street/Route 11. Any spillover from the infiltration basin will be conducted further eastward on Wallace Road, through a 24-inch diameter SICPP that drains by gravity to a New York State Department of Transportation catch basin on Front Street – the inlet to a closed (underground) system that directs stormwater to a stormwater management area between Route 11 and Interstate 81.

We strongly encourage the replanting of lost vegetation with native vegetation wherever possible. Please see our recommendations below on environmentally-friendly landscaping and stormwater.

Based on the information provided, this project should not pose significant threats to either the aquifer or public health and therefore satisfies the requirements of Section 1424(e) of the Safe Drinking Water Act. Please be advised that meeting the requirements of 1424(e) does not preclude the need to meet National Environmental Policy Act (NEPA) requirements to address direct, indirect, and cumulative impacts. This review does not constitute a review under Section 309 of the Clean Air Act; EPA therefore reserves the right to review additional environmental documents on this project.

EPA offers the following for your consideration to reduce environmental impacts and to create a more sustainable project.

Clean Diesel:

Implement diesel controls, cleaner fuel, and cleaner construction practices for on-road and off-road equipment used for transportation, soil movement, or other construction activities, including:

- Strategies and technologies that reduce unnecessary idling, including auxiliary power units, the use of electric equipment, and strict enforcement of idling limits; and
- Use of clean diesel through add-on control technologies like diesel particulate filters and diesel oxidation catalysts, repowers, or newer, cleaner equipment.

For more information on diesel emission controls in construction projects, please see:

<http://www.northeastdiesel.org/pdf/NEDC-Construction-Contract-Spec.pdf>

Stormwater:

We emphasize the importance of Low Impact Development (LID) principles such as minimizing effective imperviousness to create site drainage, and the planting of native and non-invasive vegetation on the project site for stormwater management purposes. Other LID practices can include bioretention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements. For further information, please see the following website:

<http://water.epa.gov/polwaste/green/>

Encourage cost-efficient, environmentally-friendly landscaping:

There are many benefits to making greener landscaping choices. For additional information, please see the following website:

<http://www2.epa.gov/greenerproducts/identifying-greener-landscaping-choices>

Energy-Efficiency:

Energy-efficient technologies should be incorporated into all aspects of the project. Please see the following website: <http://www.energystar.gov>

If you have any questions concerning this matter or would like additional information, please feel free to contact Rajini Ramakrishnan of my staff at (212) 637-3731.

Sincerely yours,



Grace Musumeci, Chief
Environmental Review Section



**Governor's Office of
Storm Recovery**

**ANDREW M.
CUOMO**
Governor

LISA BOVA-HIATT
Executive Director

Via Electronic Mail

January 11, 2017

Nicholas Conrad
New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program – Information Services
625 Broadway, 5th Floor
Albany, New York 12233-4757

Re: Natural Heritage Compliance Process for the Smith Hill Creek Stormwater Management System Project,
Town of Chenango, Broome County, New York

Dear Mr. Conrad:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is conducting an environmental review under HUD's environmental review regulations (24 CFR Part 58) and New York State's Environmental Quality Review Act (SEQRA) for the Smith Hill Creek Stormwater Management System project, located in the Town of Chenango, Broome County, New York (see **Figures 1 and 2**).

The purpose of this letter is to request a search of the files of the New York Natural Heritage Program for records of the occurrence of any rare animals, plants, and natural communities and/or significant wildlife habitats in the vicinity of this project. The information we receive will be used in NEPA and SEQRA documentation and/or any permit applications. We will retain the confidentiality, as needed, of any information received.

Program Overview: Heavy rain from Hurricane Irene resulted in ground saturation during the storm. Ten days later heavy rain from Tropical Storm Lee, in combination with the existing ground saturation, resulted in substantial flooding and the failure of stormwater management systems throughout the Town of Chenango. Tropical Storm Lee resulted in millions of dollars of commercial and residential property damage. A key strategy for the town in its New York Rising Community Reconstruction plan is to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce risk and damage to persons and property. This project would protect this vulnerable area from experiencing the type of flooding and devastation caused by Topical Storm Lee.

Area of Potential Effect: The project will take place along Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road (see **Figure 1**).

Proposed Project Description: The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek. (see attached **Preliminary Site Plan**).

Compliance: According to information reviewed from the New York State Environmental Resource Mapper (ERM), the project area is not within a half mile of significant natural communities, and no rare plants or animals exist within the project area (see attached **Figure 3**). The proposed project would involve ground disturbance. As such, GOSR respectfully requests that the New York Natural Heritage Program review its records of concern for any rare or state-listed animals or plants, or significant natural communities, at this site or in its immediate vicinity. In addition, information regarding the presence of any other species or habitats of special concern in the vicinity of the proposed projects is also requested.

If you have questions or require additional information regarding this request, please contact me at (518) 474-0647 or Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

Sincerely,



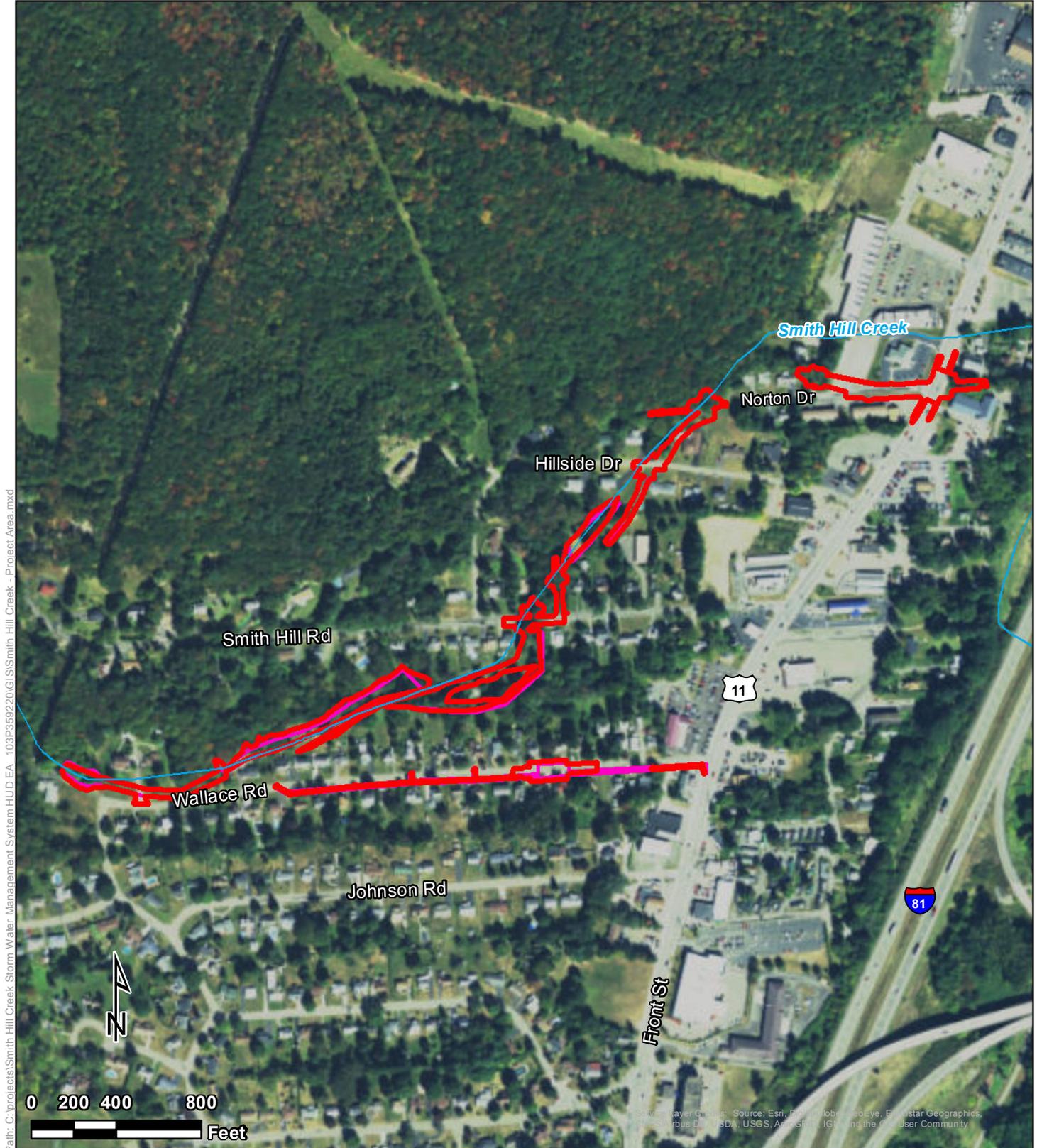
Alicia Shultz
Community Developer - Environmental Services
Governor's Office of Storm Recovery
NYS Homes and Community Renewal

Enclosures:

Figure 1: Project Location Map

Figure 2. Topographic Map

Figure 3: Environmental Resource Mapper Findings Attachments:
Preliminary Site Plan



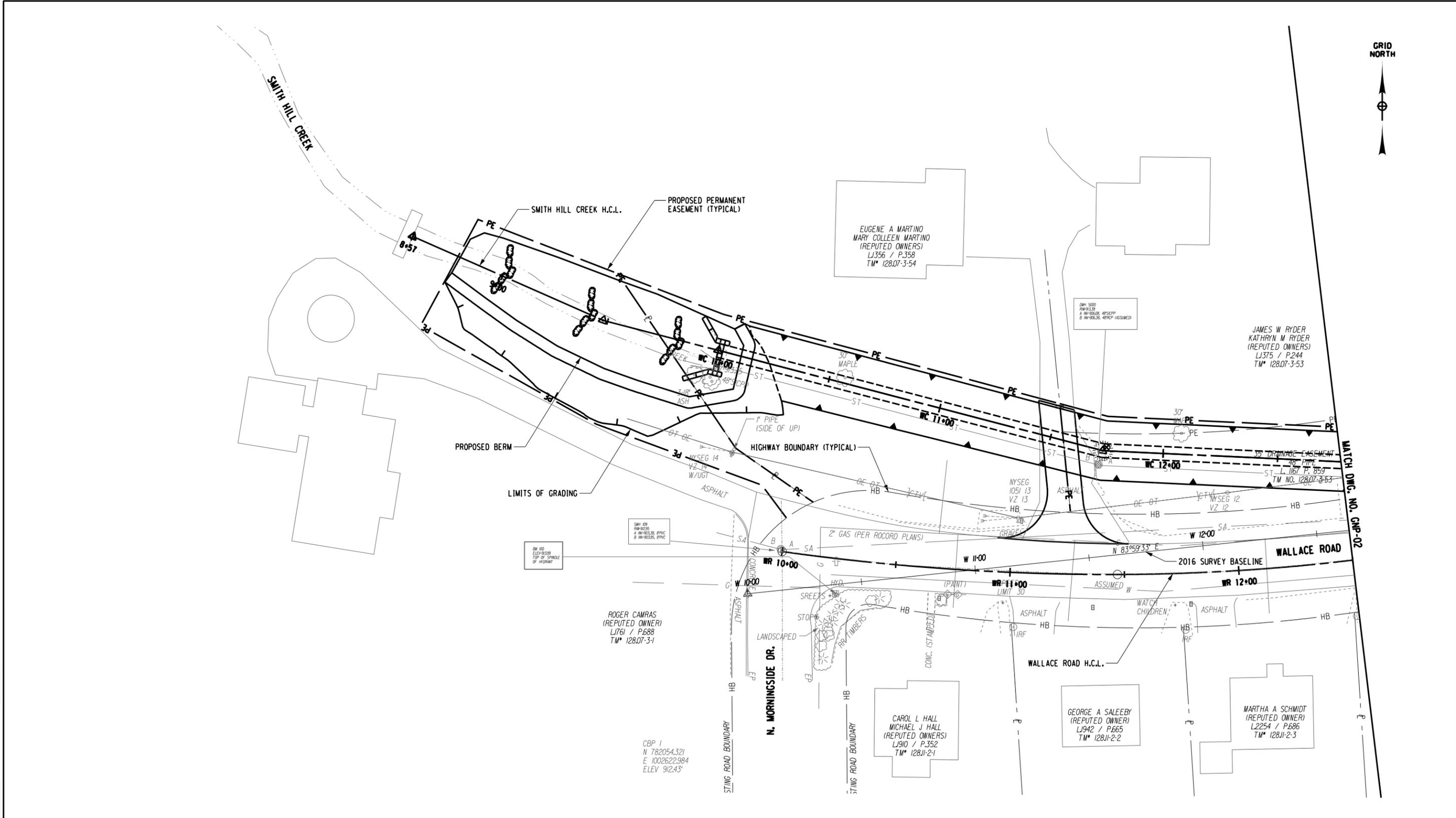
Project Area

Legend
 Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

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Preliminary

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

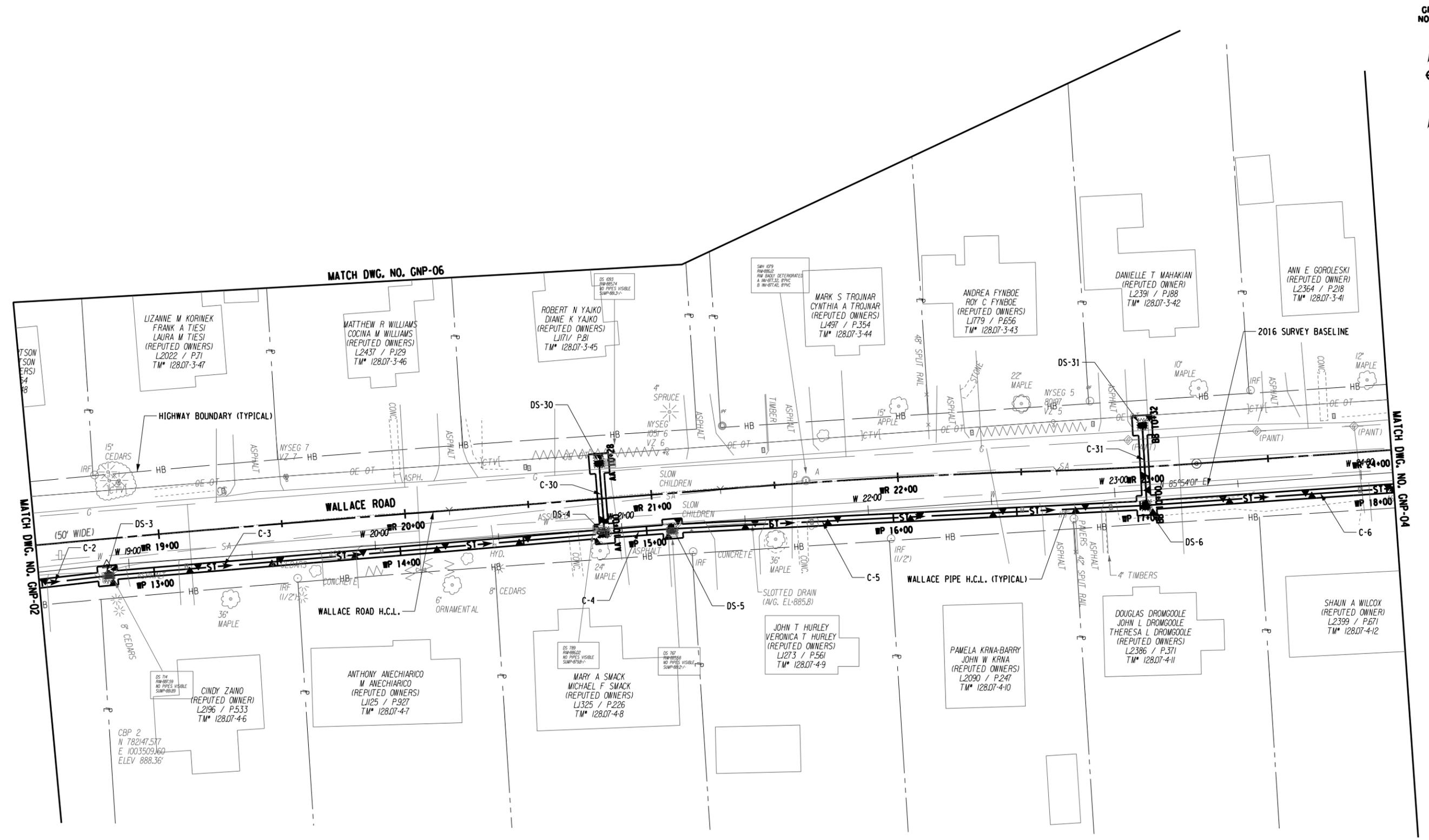
**GENERAL PLAN
WALLACE ROAD**



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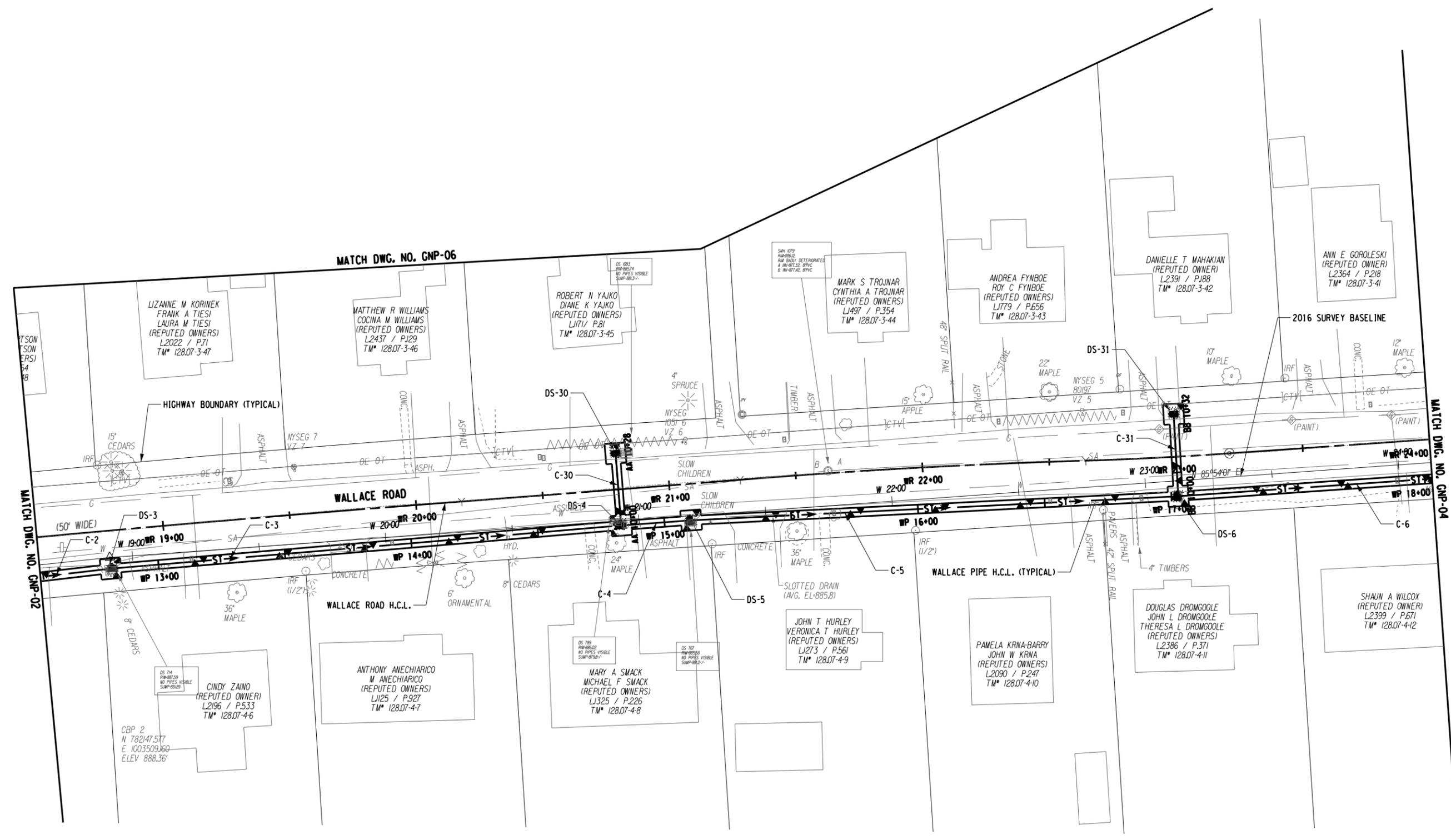
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

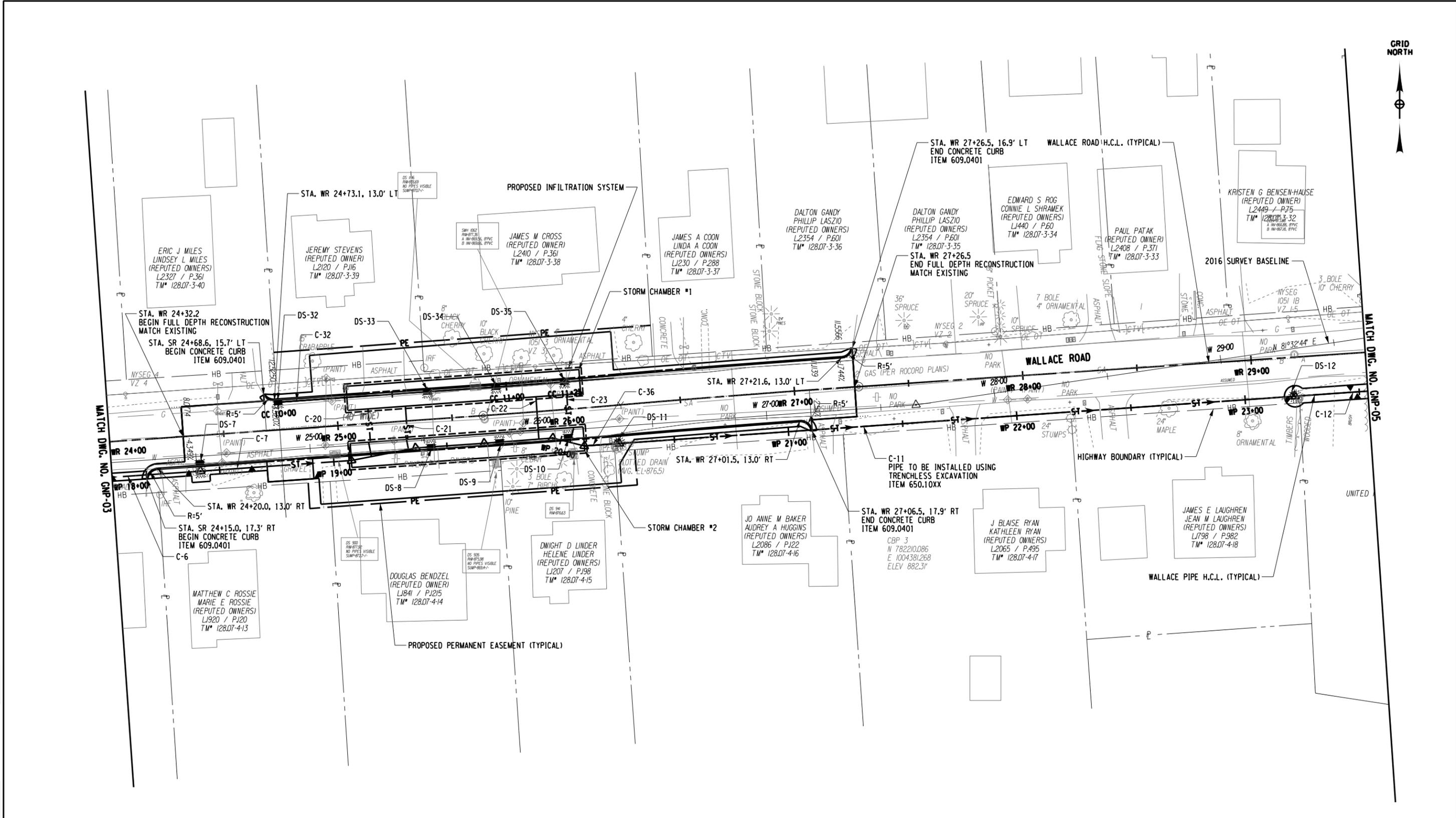
GENERAL PLAN
 WALLACE ROAD



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Preliminary

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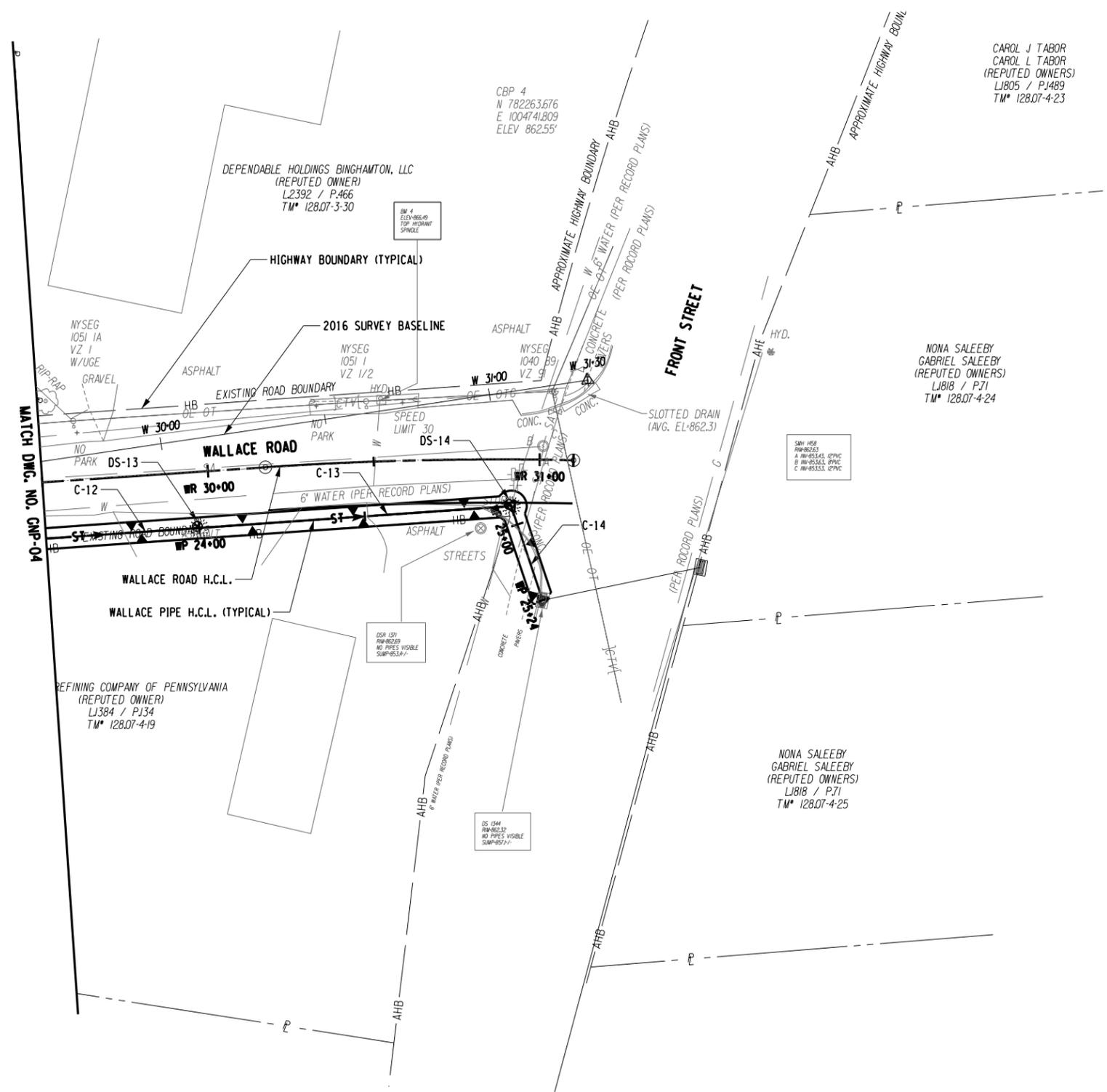
**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
WALLACE ROAD**

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MATCH DWG. NO. GNP-04

CBP 4
 N 782263.676
 E 1004741.809
 ELEV 862.55'

DEPENDABLE HOLDINGS BINGHAMTON, LLC
 (REPUTED OWNER)
 L2392 / P.466
 TM* 128.07-3-30

BM 4
 ELEV 862.49
 TOP IRONWAY
 SPINDLE

CAROL J TABOR
 CAROL L TABOR
 (REPUTED OWNERS)
 LJ805 / P.1489
 TM* 128.07-4-23

NONA SALEEBY
 GABRIEL SALEEBY
 (REPUTED OWNERS)
 LJ818 / P.71
 TM* 128.07-4-24

REFINING COMPANY OF PENNSYLVANIA
 (REPUTED OWNER)
 LJ384 / P.134
 TM* 128.07-4-19

DSR 107
 12\"/>

DS 1544
 12\"/>

NONA SALEEBY
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SM 108
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Preliminary



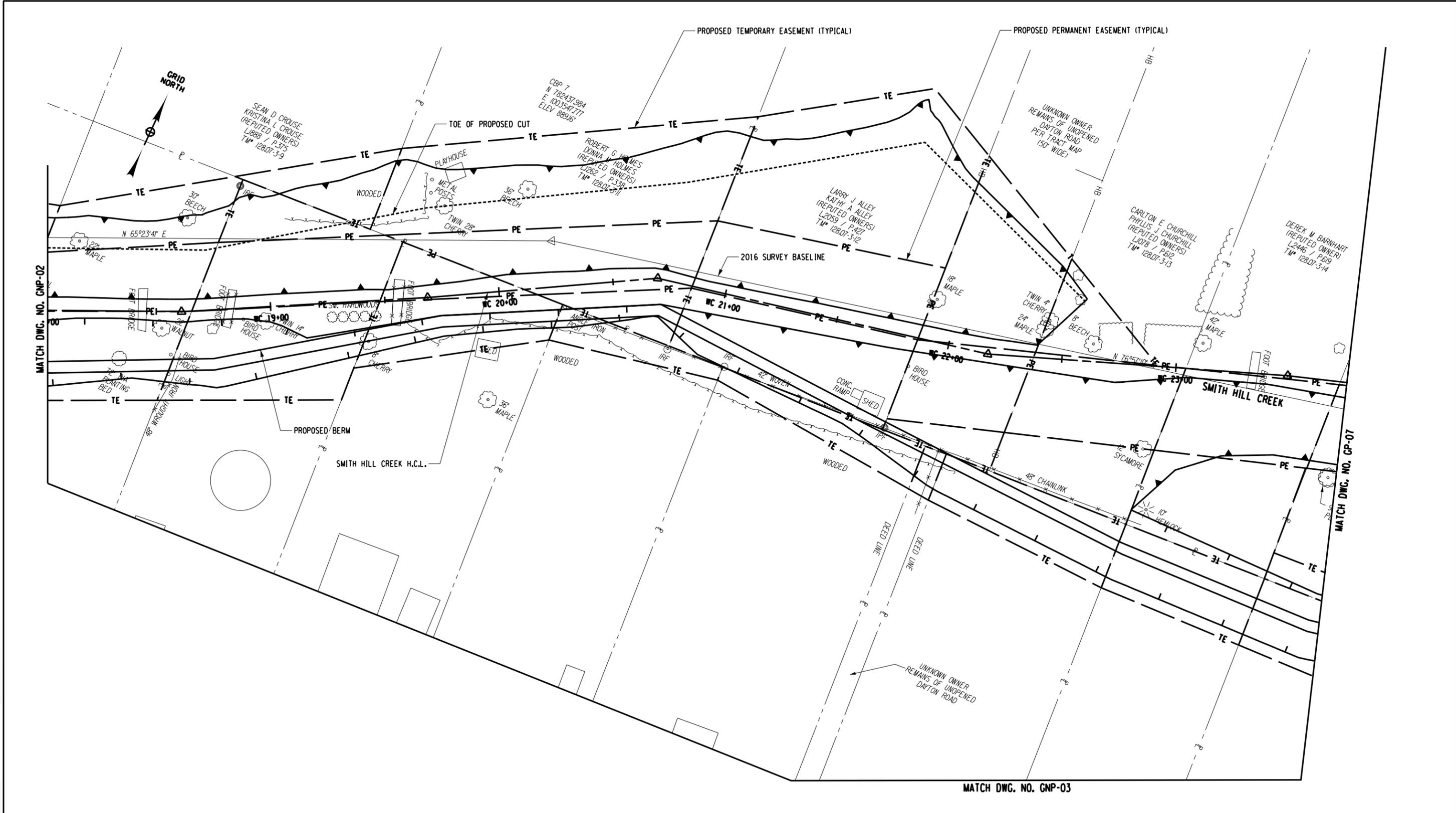
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

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Preliminary

20' 0 20' 40'

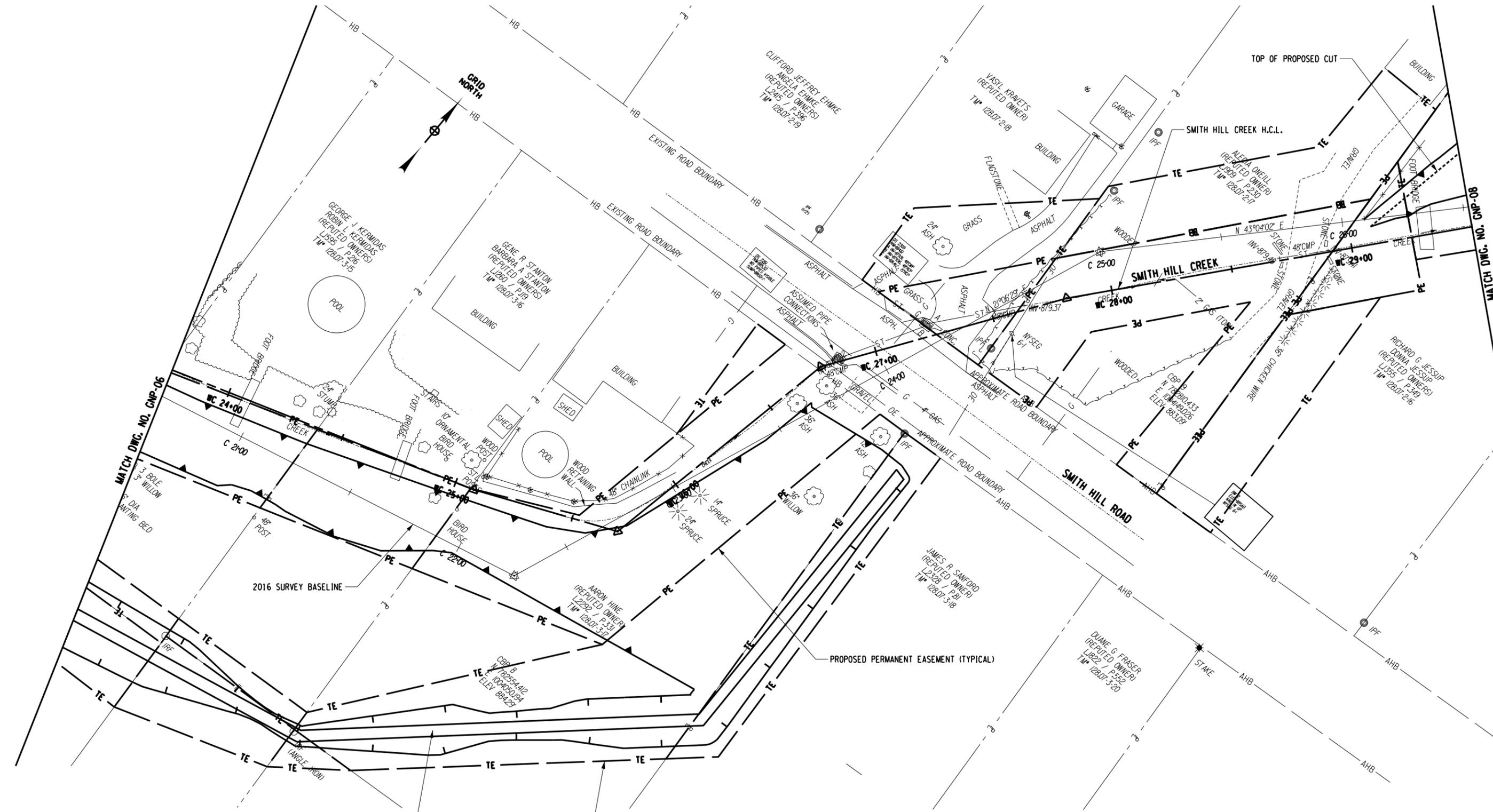
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**

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 MATCH DWG. NO. GNP-08



Preliminary

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**



 W&E Woodruff Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-07
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CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

12'-8 1/2"

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

PROPOSED ASPHALT
 DRIVEWAY

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

END PAVEMENT
 RESURFACING
 STA. X+XX.XX

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

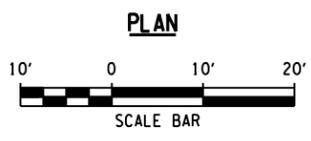
JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.
- 2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

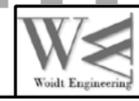
CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



Preliminary

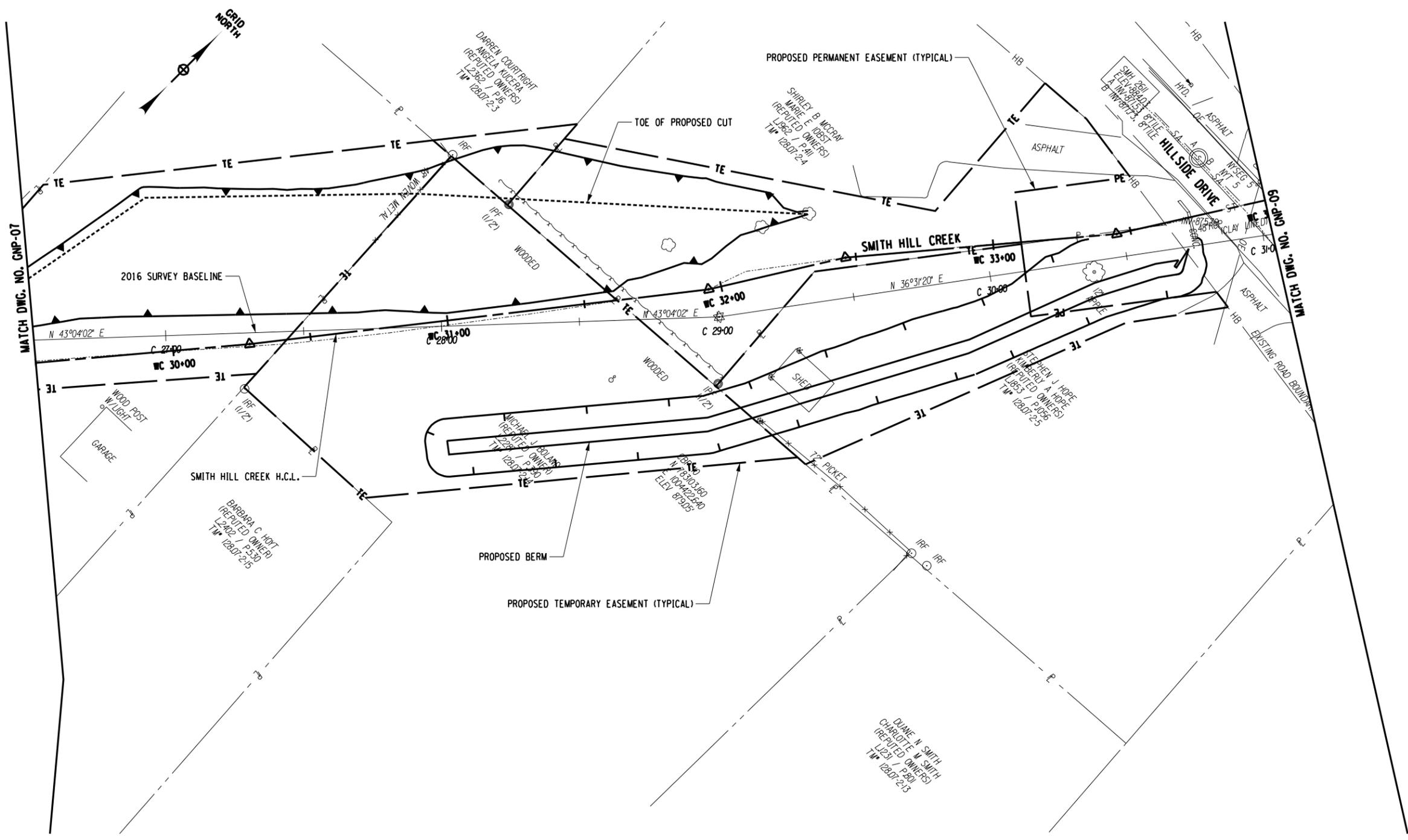
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN



SCALE AS SHOWN	DRAWING NO. ST1-XX
DATE NOVEMBER 2016	SHEET XX OF

IN CHARGE OF : JJM
 DESIGNED BY : SAS
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 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
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DATE NOVEMBER 2016	SHEET OF

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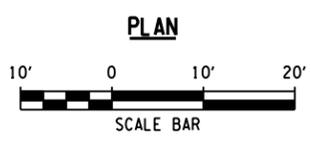
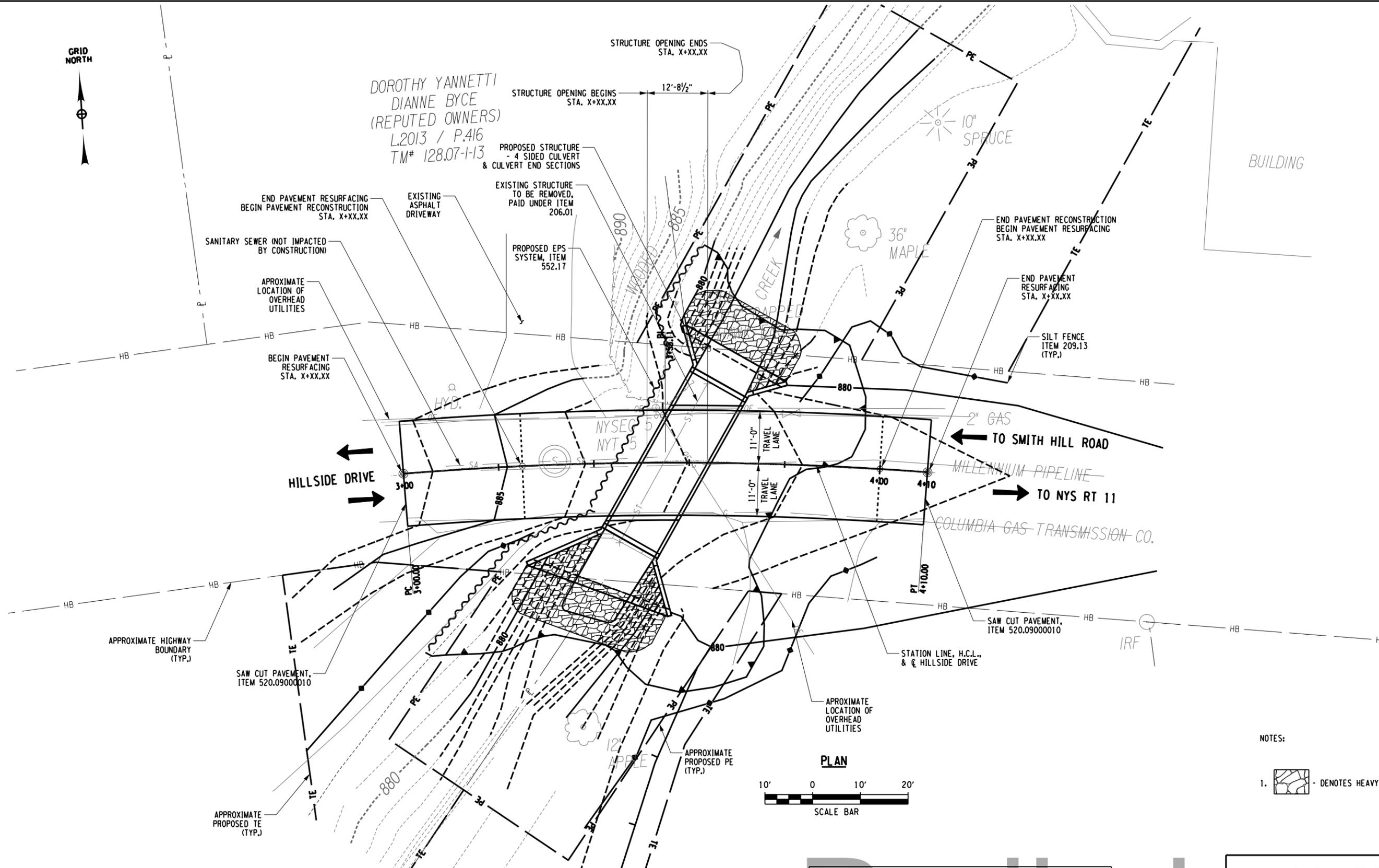
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 CHECKED BY : **COM**

SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



LOAD RATING		
LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

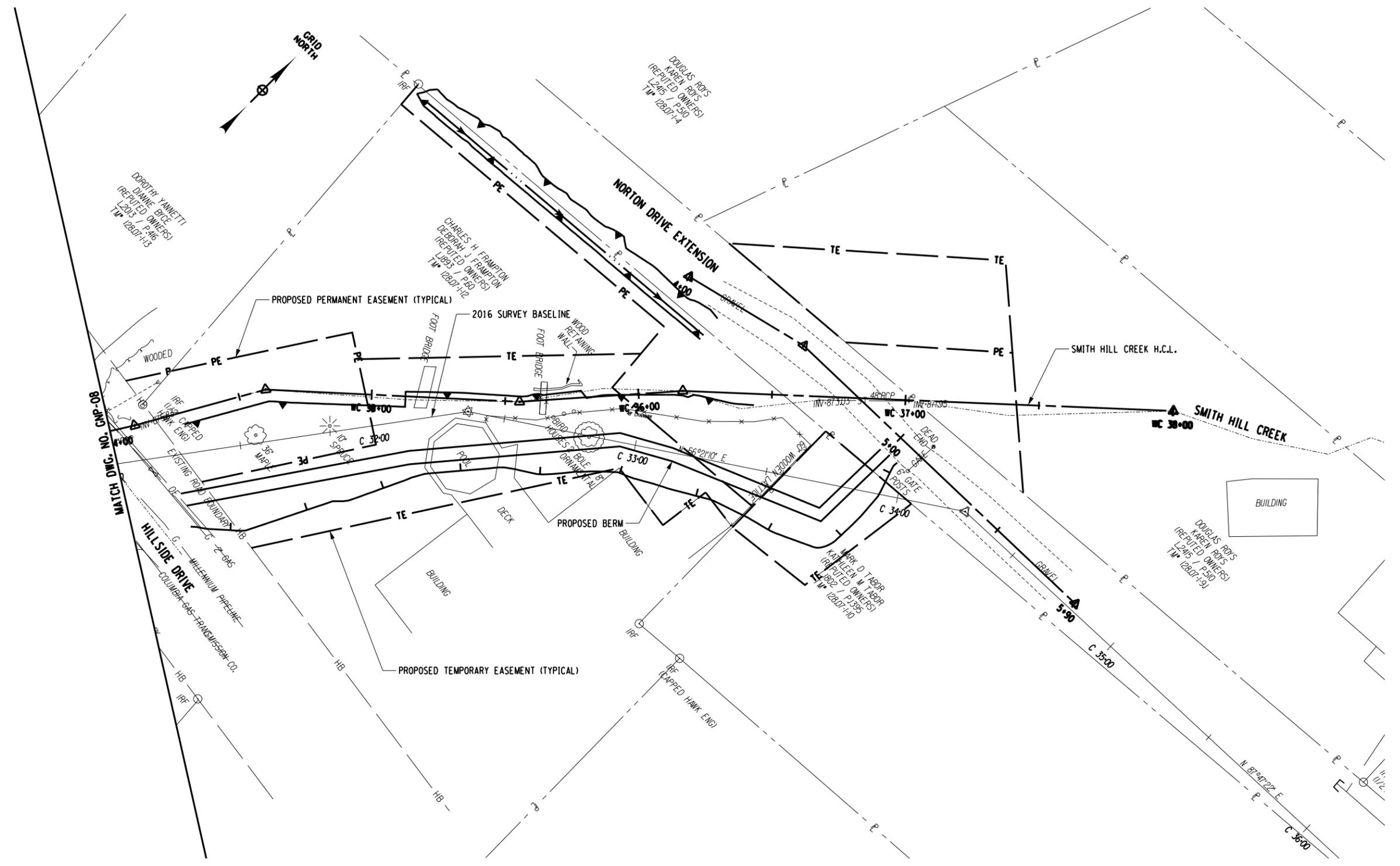
CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF



Preliminary

20' 0 20' 40'

SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**

		SCALE AS SHOWN	DRAWING NO. GNP-09
		DATE NOVEMBER 2016	SHEET OF

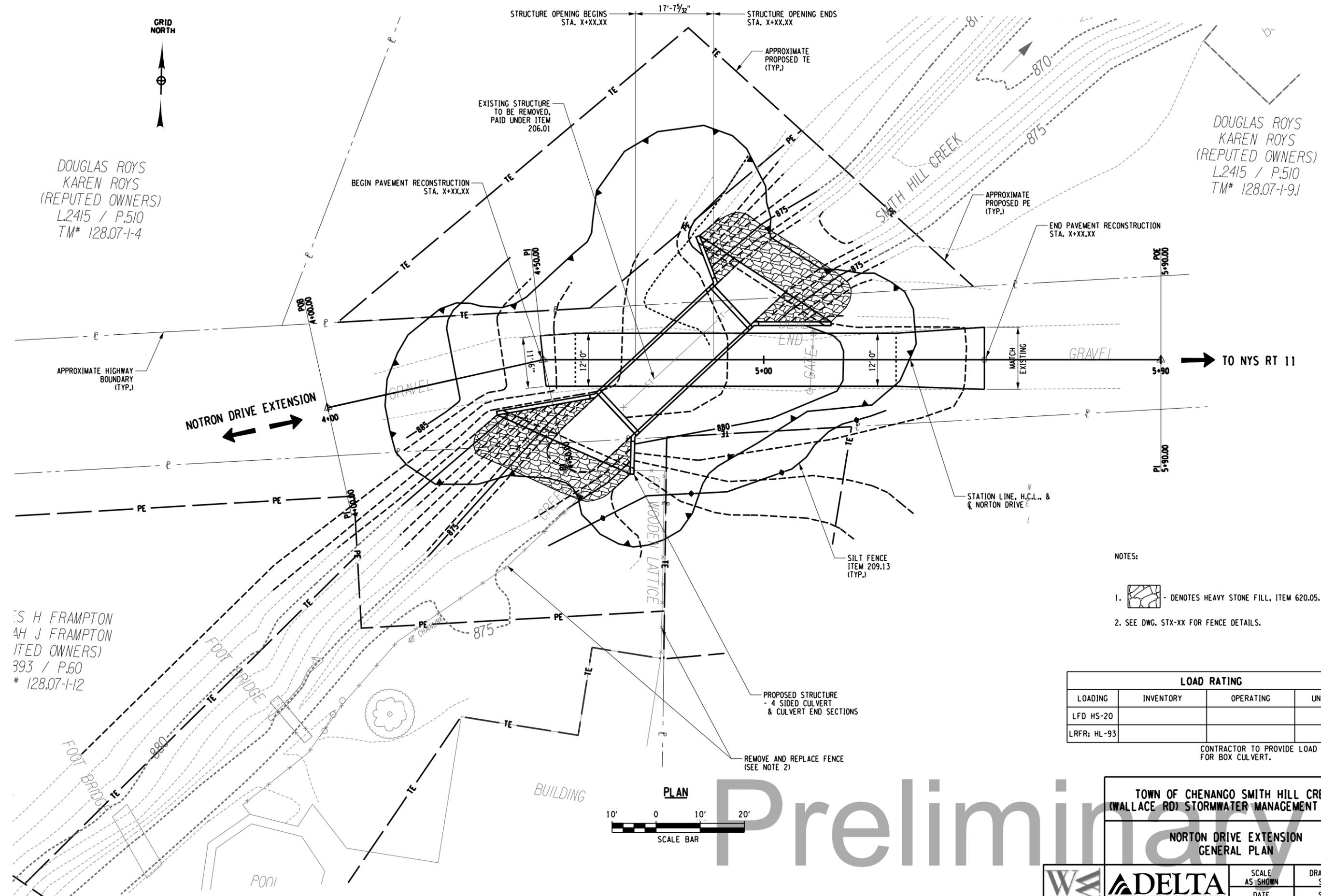
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 CHECKED BY: COM
 DETAILED BY: BNS
 IN CHARGE OF: COM

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

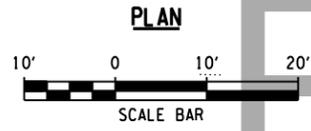
DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



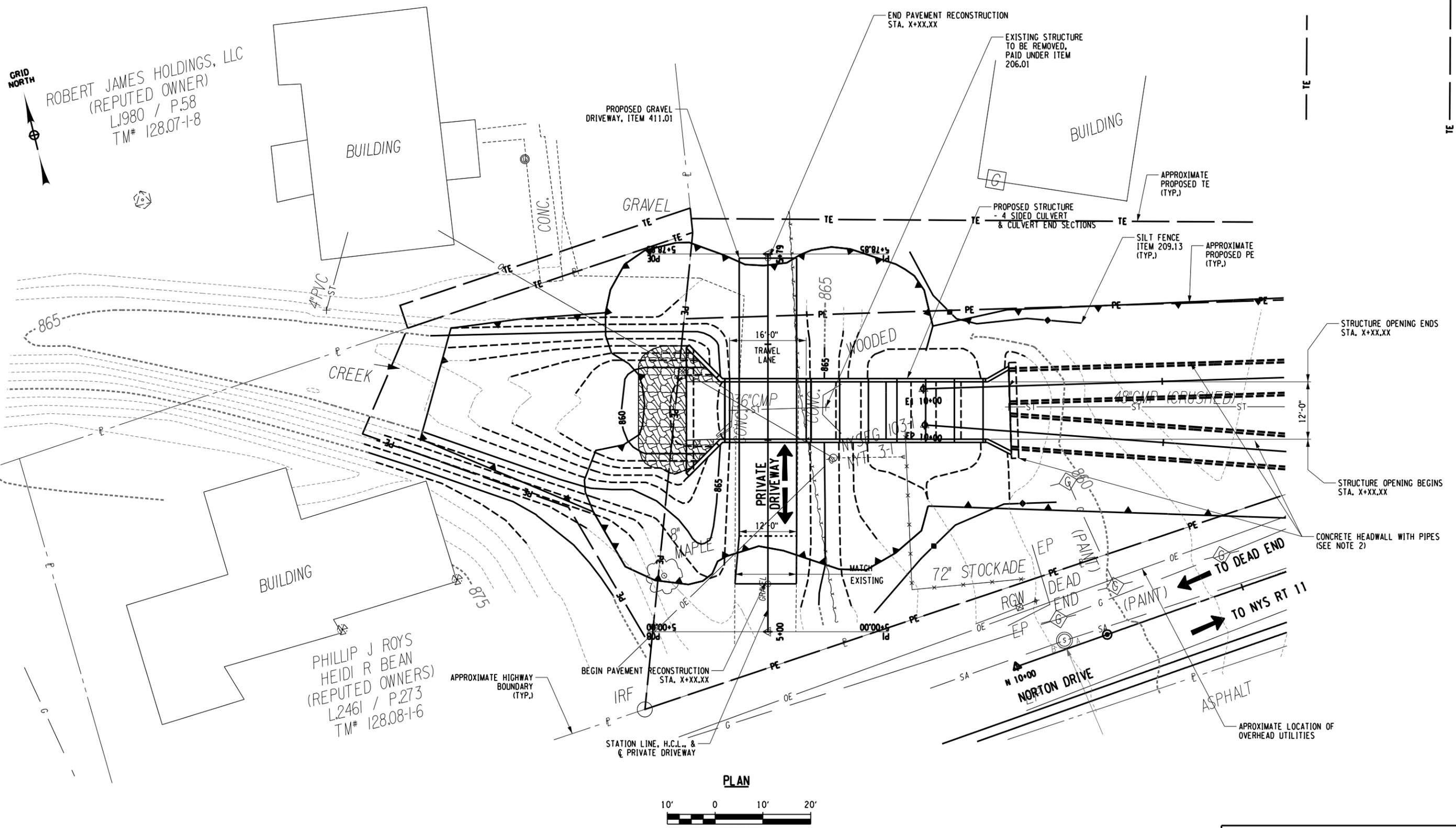
Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

 Woldt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST4-XX
		DATE NOVEMBER 2016	SHEET XX OF

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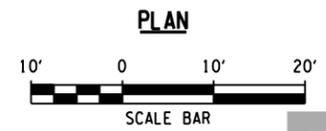


ROBERT JAMES HOLDINGS, LLC
 (REPUTED OWNER)
 L1980 / P.58
 TM# 128.07-1-8

PHILLIP J ROYS
 HEIDI R BEAN
 (REPUTED OWNERS)
 L.2461 / P.273
 TM# 128.08-1-6

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.
 - FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY
 GENERAL PLAN

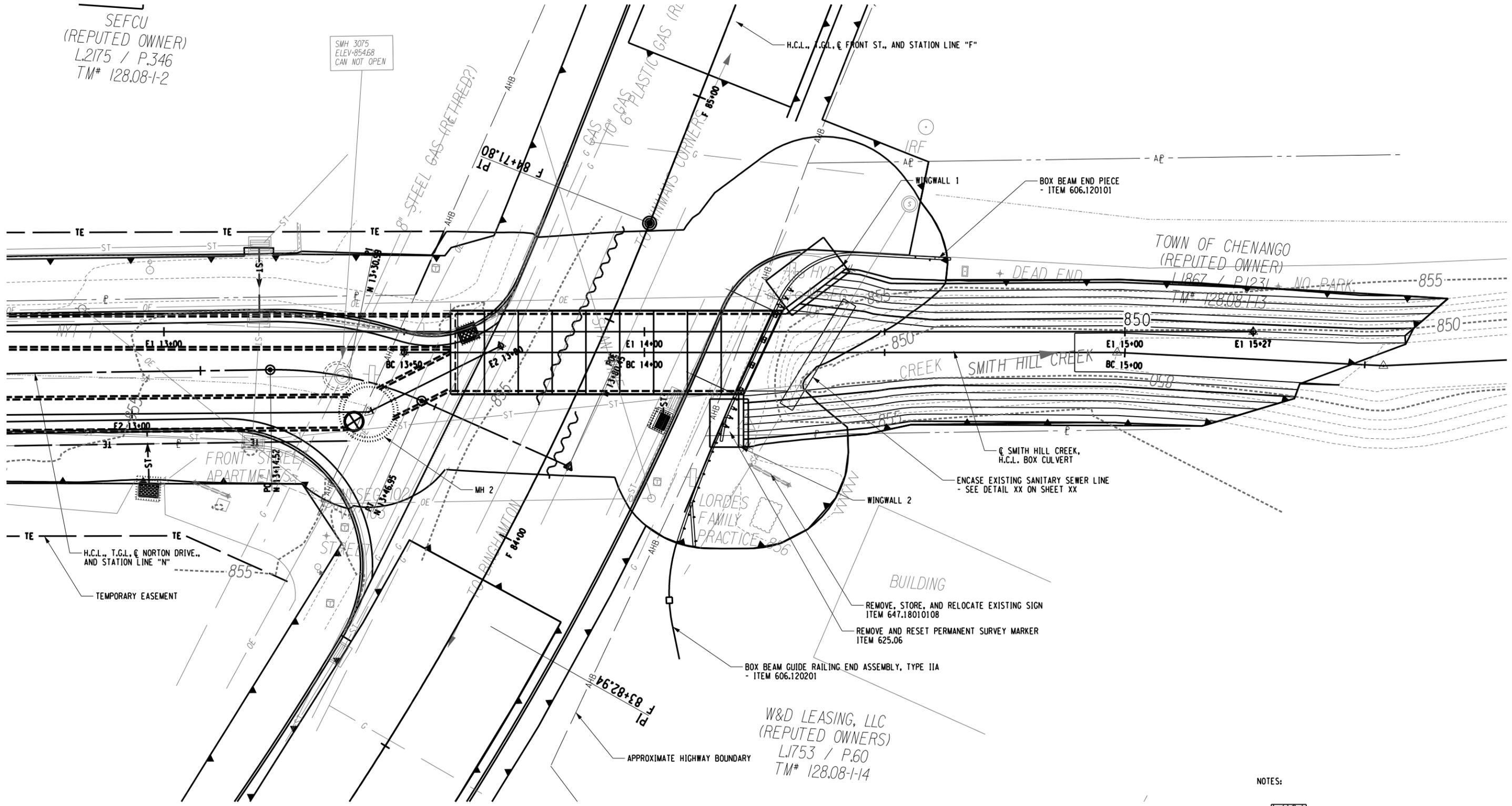
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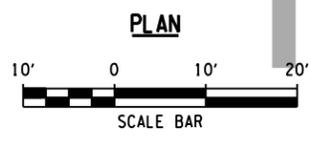
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 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM

SEFCU
 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN



- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

FRONT STREET
 GENERAL PLAN

W&D Woidt Engineering	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO.
		DATE NOVEMBER 2016	SHEET OF

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

January 24, 2017

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Smith Hill Creek Stormwater Management System Project
Town/City: Chenango. County: Broome.

Dear Alicia Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage Database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 7 Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,



Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

Smith Hill Creek Storm Water Management System

IPaC Trust Resources Report

Generated April 27, 2016 11:28 PM MDT, IPaC v3.0.2

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



Table of Contents

IPaC Trust Resources Report	<u>1</u>
Project Description	<u>1</u>
Endangered Species	<u>2</u>
Migratory Birds	<u>3</u>
Refuges & Hatcheries	<u>5</u>
Wetlands	<u>6</u>

U.S. Fish & Wildlife Service

IPaC Trust Resources Report



NAME

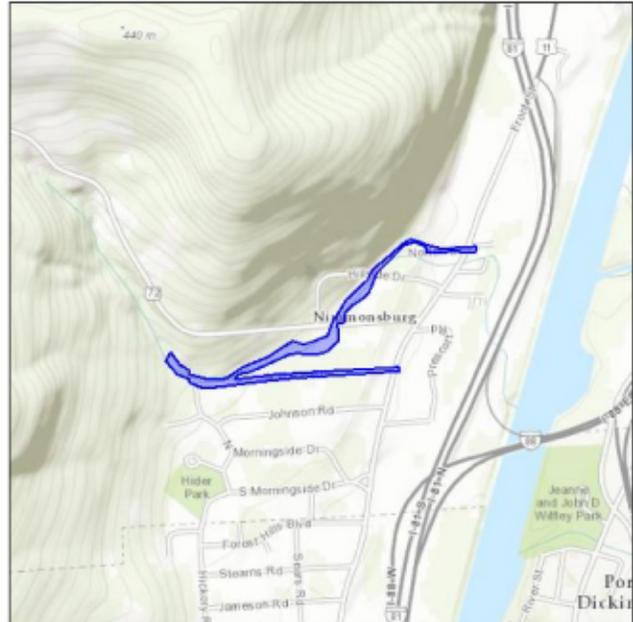
Smith Hill Creek Storm Water Management System

LOCATION

Broome County, New York

DESCRIPTION

The Project consists of storm water management improvements to Smith Creek, which is a manmade creek, where it intersects Norton Drive, Hillside Drive, Smith Hill Road, and Wallace Road in the Town of Chenango, Broome County, New York.



IPAC LINK

<https://ecos.fws.gov/ipac/project/QQOAD-ZP2T5-AMRKE-LVXF4-JNIXXI>

U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

New York Ecological Services Field Office

3817 Luker Road

Cortland, NY 13045-9349

(607) 753-9334

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the [Endangered Species Program](#) of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

[Section 7](#) of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Documents section in IPaC or from the local field office directly.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Mammals

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=A0JE

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the [Bald and Golden Eagle Protection Act](#).

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.^[1] There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern
<http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Conservation measures for birds
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/akn-histogram-tools.php>

The following species of migratory birds could potentially be affected by activities in this location:

American Bittern <i>Botaurus lentiginosus</i>	Bird of conservation concern
Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B0F3	
Bald Eagle <i>Haliaeetus leucocephalus</i>	Bird of conservation concern
Year-round http://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B008	
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i>	Bird of conservation concern
Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?sPCODE=B0H1	
Blue-winged Warbler <i>Vermivora pinus</i>	Bird of conservation concern
Season: Breeding	

Canada Warbler <i>Wilsonia canadensis</i> Season: Breeding	Bird of conservation concern
Golden-winged Warbler <i>Vermivora chrysoptera</i> Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0G4	Bird of conservation concern
Kentucky Warbler <i>Oporornis formosus</i> Season: Breeding	Bird of conservation concern
Least Bittern <i>Ixobrychus exilis</i> Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092	
Louisiana Waterthrush <i>Parkesia motacilla</i> Season: Breeding	Bird of conservation concern
Olive-sided Flycatcher <i>Contopus cooperi</i> Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0AN	Bird of conservation concern
Peregrine Falcon <i>Falco peregrinus</i> Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU	Bird of conservation concern
Pied-billed Grebe <i>Podilymbus podiceps</i> Season: Breeding	Bird of conservation concern
Prairie Warbler <i>Dendroica discolor</i> Season: Breeding	Bird of conservation concern
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> Season: Breeding	Bird of conservation concern
Short-eared Owl <i>Asio flammeus</i> Season: Wintering http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD	Bird of conservation concern
Willow Flycatcher <i>Empidonax traillii</i> Season: Breeding http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6	Bird of conservation concern
Wood Thrush <i>Hylocichla mustelina</i> Season: Breeding	Bird of conservation concern
Worm Eating Warbler <i>Helmitheros vermivorum</i> Season: Breeding	Bird of conservation concern

Wildlife refuges and fish hatcheries

There are no refuges or fish hatcheries in this location

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 LUKER ROAD
CORTLAND, NY 13045
PHONE: (607)753-9334 FAX: (607)753-9699
URL: www.fws.gov/northeast/nyfo/es/section7.htm

Consultation Code: 05E1NY00-2017-SLI-0530

December 15, 2016

Event Code: 05E1NY00-2017-E-01335

Project Name: Smith Hill Creek Stormwater Management System

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (

http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Official Species List

Provided by:

New York Ecological Services Field Office

3817 LUKER ROAD

CORTLAND, NY 13045

(607) 753-9334

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Consultation Code: 05E1NY00-2017-SLI-0530

Event Code: 05E1NY00-2017-E-01335

Project Type: LAND - DRAINAGE

Project Name: Smith Hill Creek Stormwater Management System

Project Description: The Town of Chenango is proposing storm water management improvements to Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road in the Town of Chenango, Broome County, New York. The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek.

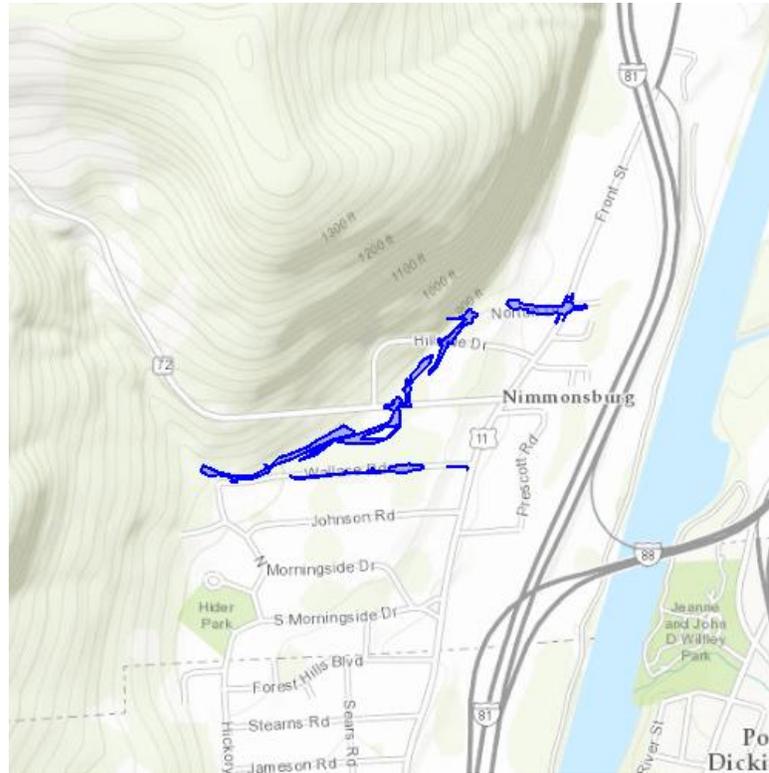
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Broome, NY



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat (<i>Myotis septentrionalis</i>) Population: Wherever found	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Critical habitats that lie within your project area

There are no critical habitats within your project area.



**Governor's Office of
Storm Recovery**

**ANDREW M.
CUOMO**
Governor

LISA BOVA-HIATT
Executive Director

By Electronic Mail

March 8, 2017

Robyn A. Niver
Endangered Species Biologist USFWS
New York Field Office
Cortland, NY 13045

Re: **REVISED** Section 7 Project Review - ESA/MBTA/BGEPA Consultation for the Smith Creek Stormwater Management System Project, Town of Chenango, Broome County, New York - **REVISED**

Dear Ms. Niver:

The Governor's Office of Storm Recovery (GOSR), acting under the auspices of New York State Homes and Community Renewal's (HCR) Housing Trust Fund Corporation (HTFC), on behalf of the Department of Housing & Urban Development (HUD), is conducting an environmental review under HUD's environmental review regulations (24 CFR Part 58) and New York State's Environmental Quality Review Act (SEQRA) for the Smith Hill Creek Stormwater Management System project, located in the Town of Chenango, Broome County, New York (see **Figure 1**). GOSR is acting as HUD's non-federal representative for the purposes of conducting consultation pursuant to Section 7 of the Endangered Species Act.

The purpose of this letter is to provide the U.S. Fish and Wildlife Service – New York Field Office (USFWS) notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c). As discussed below, we have reviewed the project and found that the proposed project **may affect the northern long-eared bat (NLEB), but that any resulting incidental take of the NLEB** is not prohibited by the final 4(d) rule.

Program Overview: Heavy rain from Hurricane Irene resulted in ground saturation during the storm. Ten days later heavy rain from Tropical Storm Lee, in combination with the existing ground saturation, resulted in substantial flooding and the failure of stormwater management systems throughout the Town of Chenango. Tropical Storm Lee resulted in millions of dollars of commercial and residential property damage. A key strategy for the town in its New York Rising Community Reconstruction plan is to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce risk and damage to persons and property. This project would protect this vulnerable area from experiencing the type of flooding and devastation caused by Topical Storm Lee.

Area of Potential Effect: The project will take place along Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road (see **Figure 1**).

Proposed Project Description: The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek. (See attached **Preliminary Site Plan**).

ESA, Migratory Bird Treaty Act, And Bald and Golden Eagle Protection Act Species: The USFWS, New York Ecological Services Field Office was contacted through the Information, Planning, and Conservation System (IPaC) regarding the potential presence of species under the jurisdiction of the USFWS within the project area. The IPaC review and Official Species List identified one threatened species that is potentially associated with the project site: the northern long-eared bat (NLEB) (*Myotis septentrionalis*) (see attached **Official Species List**). The IPaC review also indicated that there are several migratory birds of concern that could potentially be affected by the proposed project.

Analysis and Determination of Effects:

ESA

Ulster County is within the White-Nose Syndrome Zone. According to geospatial information provided by USFWS, the project site is not within 0.25 miles of known or assumed hibernacula (see **Figure 2**) for the NLEB, or are there documented or assumed maternity roosts within 150 feet of the project site. In correspondence dated January 11, 2017, GOSR requested that the NY Natural Heritage Program (NYNHP) provide any records of occurrence of NYS-listed species in the vicinity of the project site, including the NLEB, in accordance with the 4(d) Rule for the NLEB (Federal Register January 14, 2016). The response received from the NYNHP on January 24, 2017, stated that it has no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity. (See attached **New York Natural Heritage Program Review**.) Since the proposed project would involve the removal of small trees along the banks of Smith Hill Creek **potentially during the active season** within the range of potential occurrence of NLEB habitat, GOSR determines that this project **may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule** (attached). The proposed project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. The project area is not within five miles of bat hibernacula or known maternity colonies and involves less than one acre of tree removal. GOSR will strive to remove trees between October 31 and March 31, which is outside of the active season for bats. However, due to construction schedules, trees may need to be removed during the active season. Trees to be protected from cutting will be clearly demarcated to prevent unnecessary clearing.

MBA

GOSR has determined that the project would have no significant adverse impact on migratory birds or their habitat. The area proposed for tree clearing is within or directly adjacent to roads and residential and commercial properties that experience frequent human disturbance. It is anticipated that passerine birds would temporarily leave the area during construction due to noise and disturbance. Extensive areas of high quality woodland habitat are available north and west of the project site (see **Figure 1**).

BGEPA

The iPaC review process identified the bald eagle as having year-round habitat in Broome County that may be potentially affected by activities in the project area. GOSR has determined that the proposed project would have no significant adverse impact on bald eagles. The project area is not located within the vicinity of documented bald eagle breeding. As with other migratory birds, foraging bald eagles may temporarily avoid the area during construction due to noise and disturbance. The area proposed for tree clearing is within or directly adjacent to

roads and residential and commercial properties that experience frequent human disturbance. Removal of these trees would not significantly affect foraging bald eagle as extensive areas of suitable, undisturbed foraging habitat are available nearby the site.

Conclusions

The proposed project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. On this basis, GOSR has determined that the proposed action may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule and may affect but is not likely to adversely affect migratory birds. We request your concurrence with this determination. Additionally, we request to be alerted if USFWS becomes aware of a Bald or Golden Eagle nest within 660 feet of the project site.

Project implementation is conditioned upon issuance of applicable federal and state permits and would be constructed in accordance with federal and state permit conditions. The proposed project would not have a significant impact on ESA species or adversely modify any critical habitat. Conservation measures would be employed to avoid impacts to bats, including clearly demarcating trees to be protected compared with those to be cut.

GOSR is submitting the above information to request acknowledgement from USFWS that they have no objections to the determination made by GOSR that the proposed project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule. If USFWS does not respond within 30 days from submittal of this letter, then GOSR may presume that its determination for each project is informed by the best available information and its project responsibilities under Section 7 of the ESA have been fulfilled. GOSR understands that the USFWS presumes that all activities will be implemented as described herein. GOSR will promptly report any departures from the described activities to the New York Field Office.

If you have questions or require additional information regarding this request, please contact me at (518) 474-0647 or Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

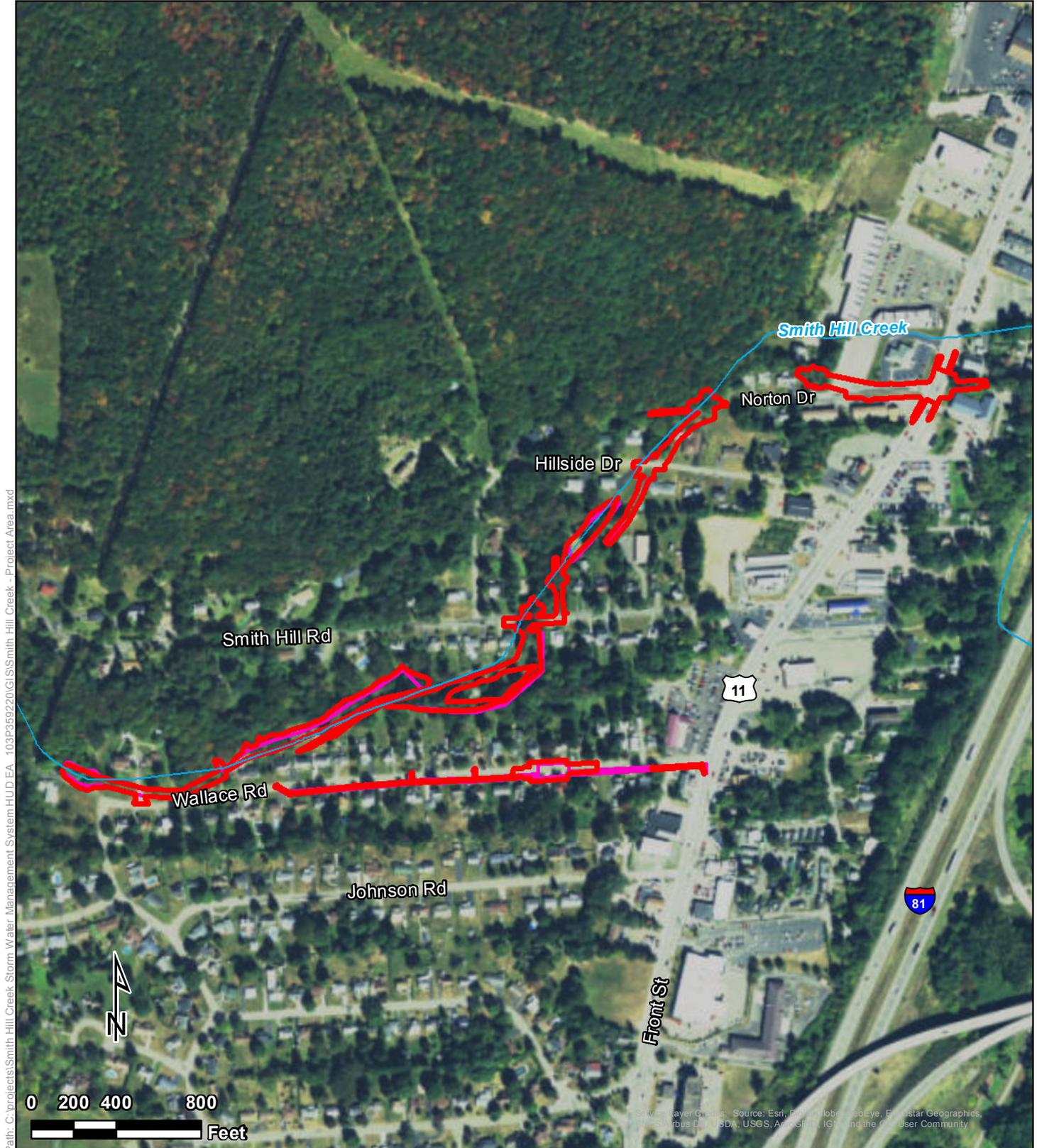
Sincerely,



Alicia Shultz
Senior Environmental Scientist
Governor's Office of Storm Recovery
NYS Homes and Community Renewal

Attachments:

Figure 1
Figure 2
Preliminary Site Plan
USFWS Official Species List
Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form
New York Natural Heritage Program Review

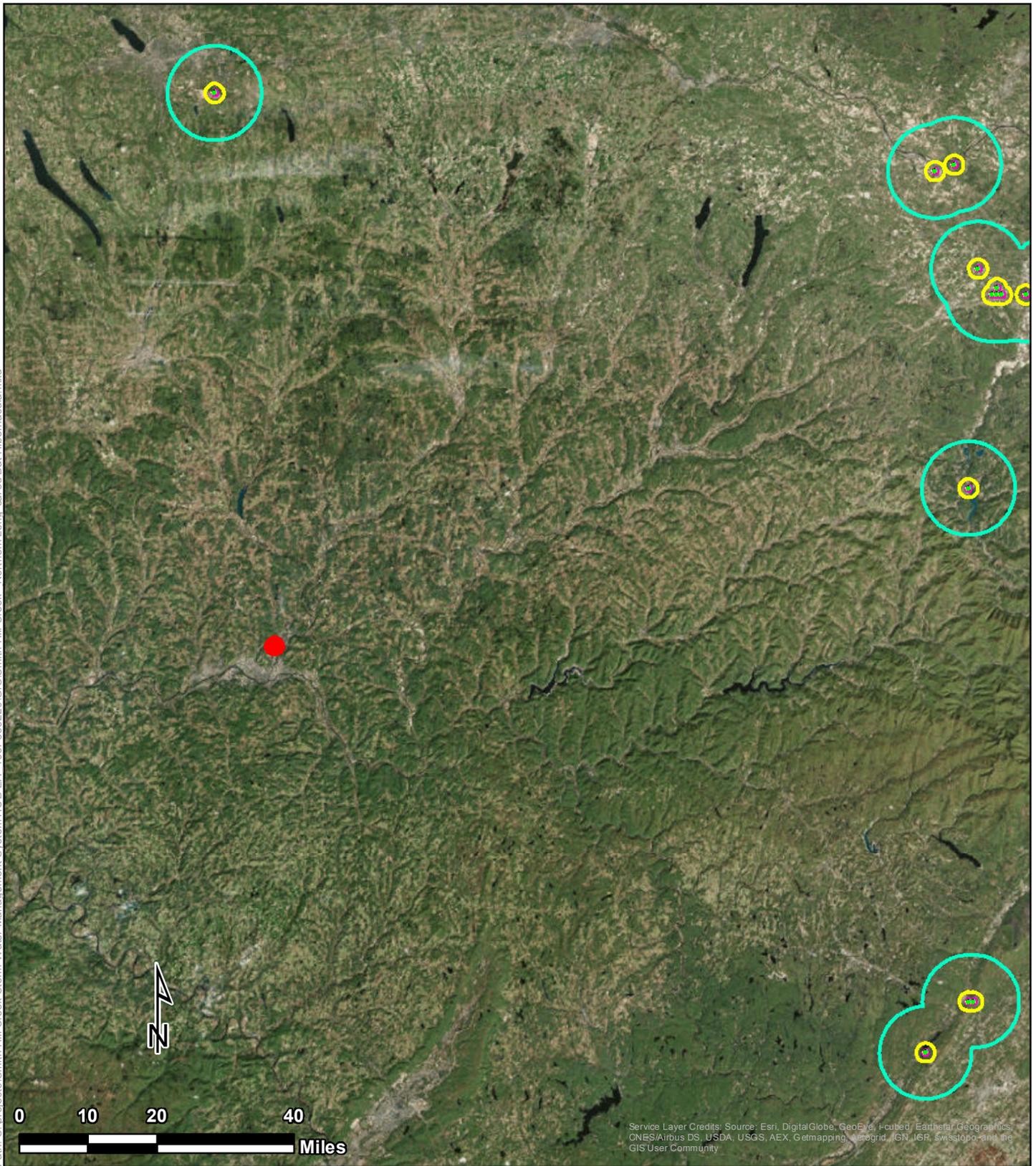


Project Area

Legend
 Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

Path: C:\projects\Smith Hill Creek Storm Water Management System\HUD EA - 103P369220\GIS\Smith Hill Creek - Northern Long-eared Bat Hibernacula.mxd



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, Swisstopo, and the GIS User Community

Legend

- NLEB Hibernacula
- Project Area
- NLEB Hibernacula 0.25 Mile Buffer
- NLEB Hibernacula 1 Mile Buffer
- NLEB Hibernacula 5 Mile Buffer



Tetra Tech, Inc

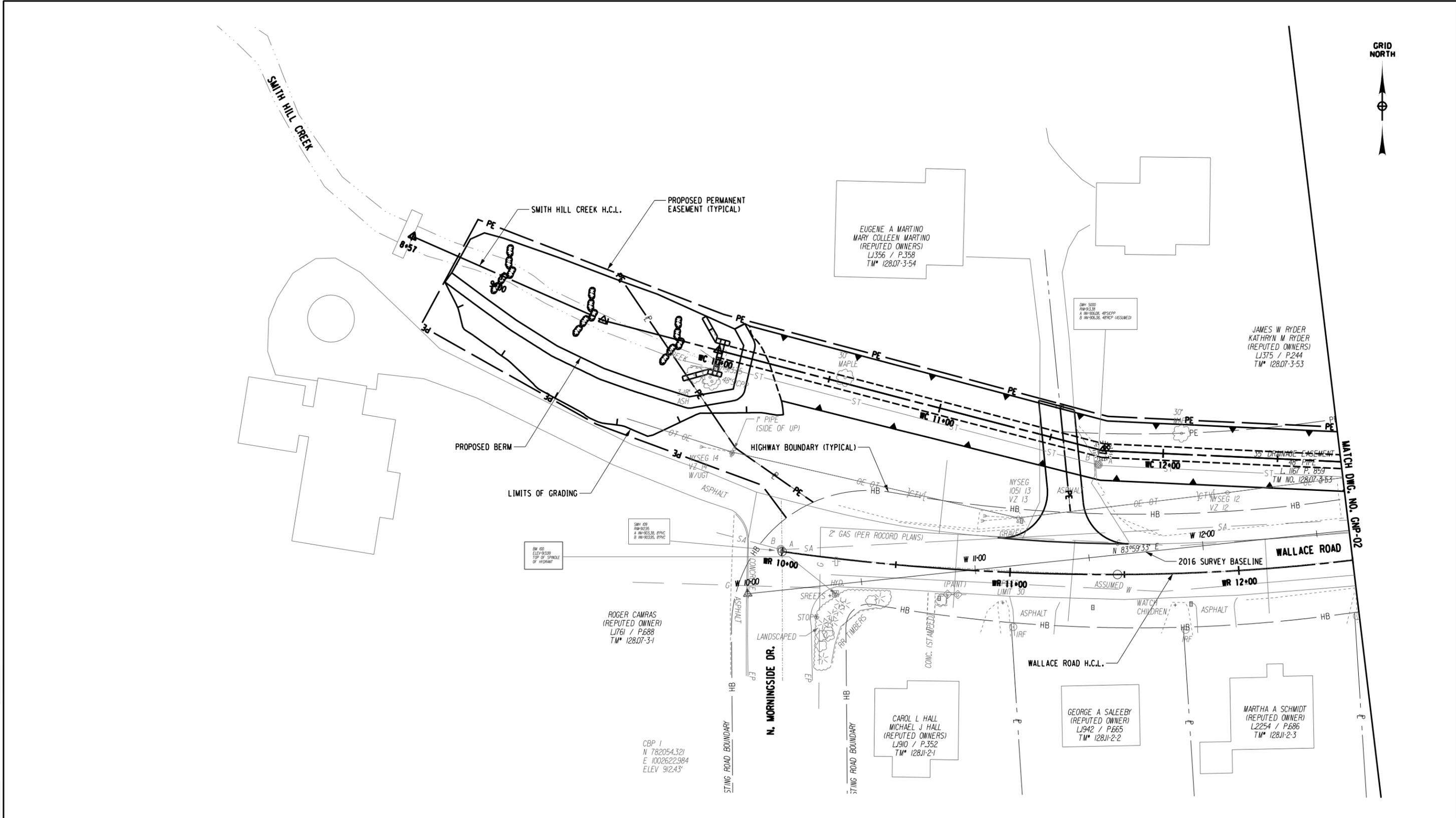
Northern Long-eared Bat Hibernacula

Smith Hill Creek Stormwater Management System
Smith Hill Creek, Wallace Avenue
Town of Chenango
Broome County, New York

Figure 2

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 CHECKED BY : CJM



Preliminary

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

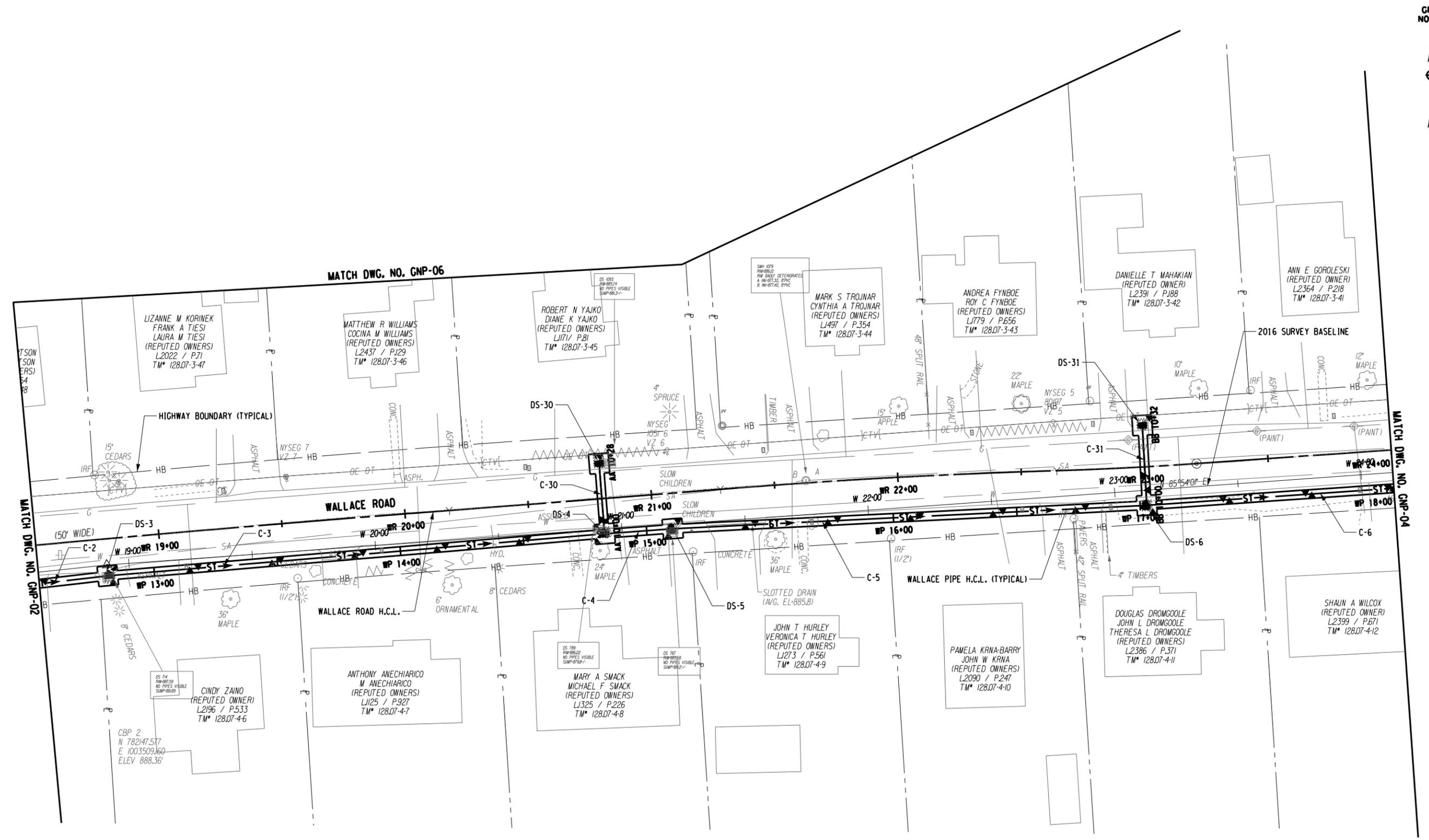
**GENERAL PLAN
WALLACE ROAD**



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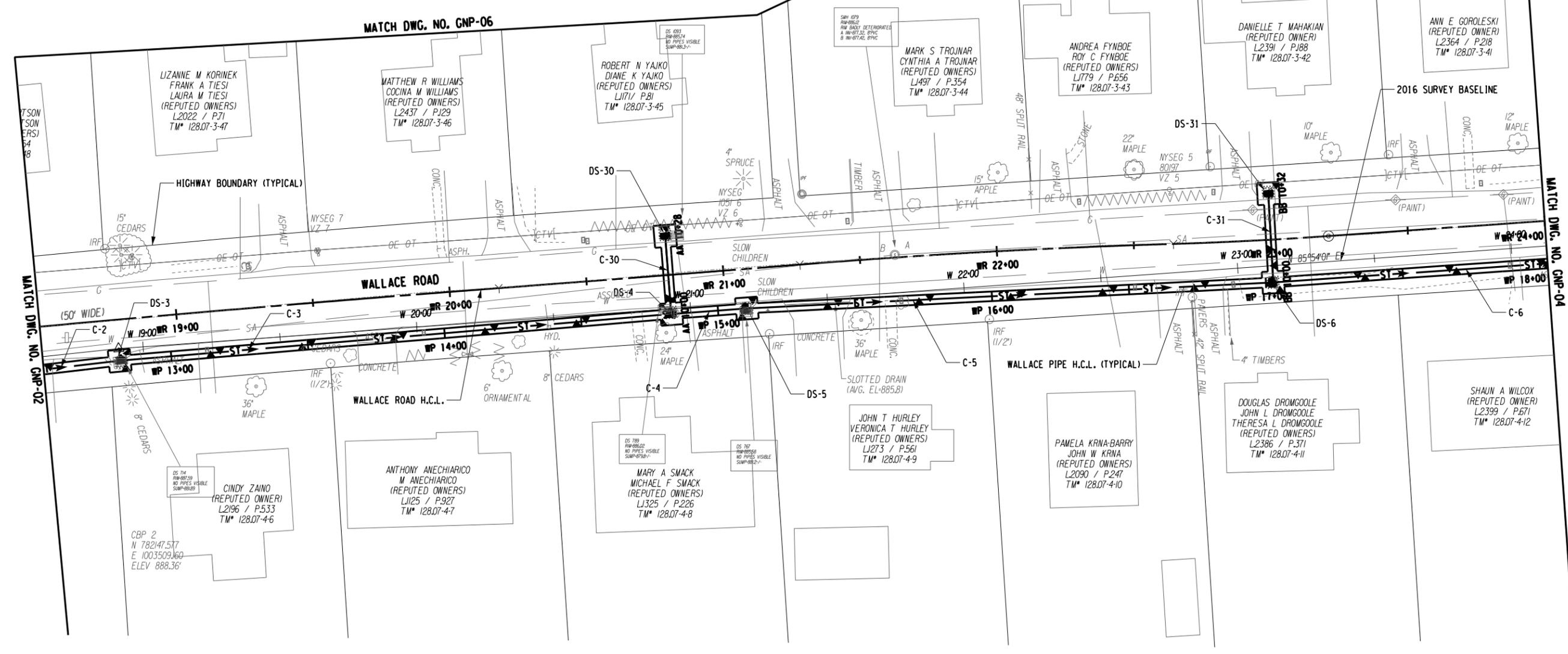
Preliminary



TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

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		DATE NOVEMBER 2016	SHEET OF



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 CHECKED BY : CJM

Preliminary

SCALE BAR

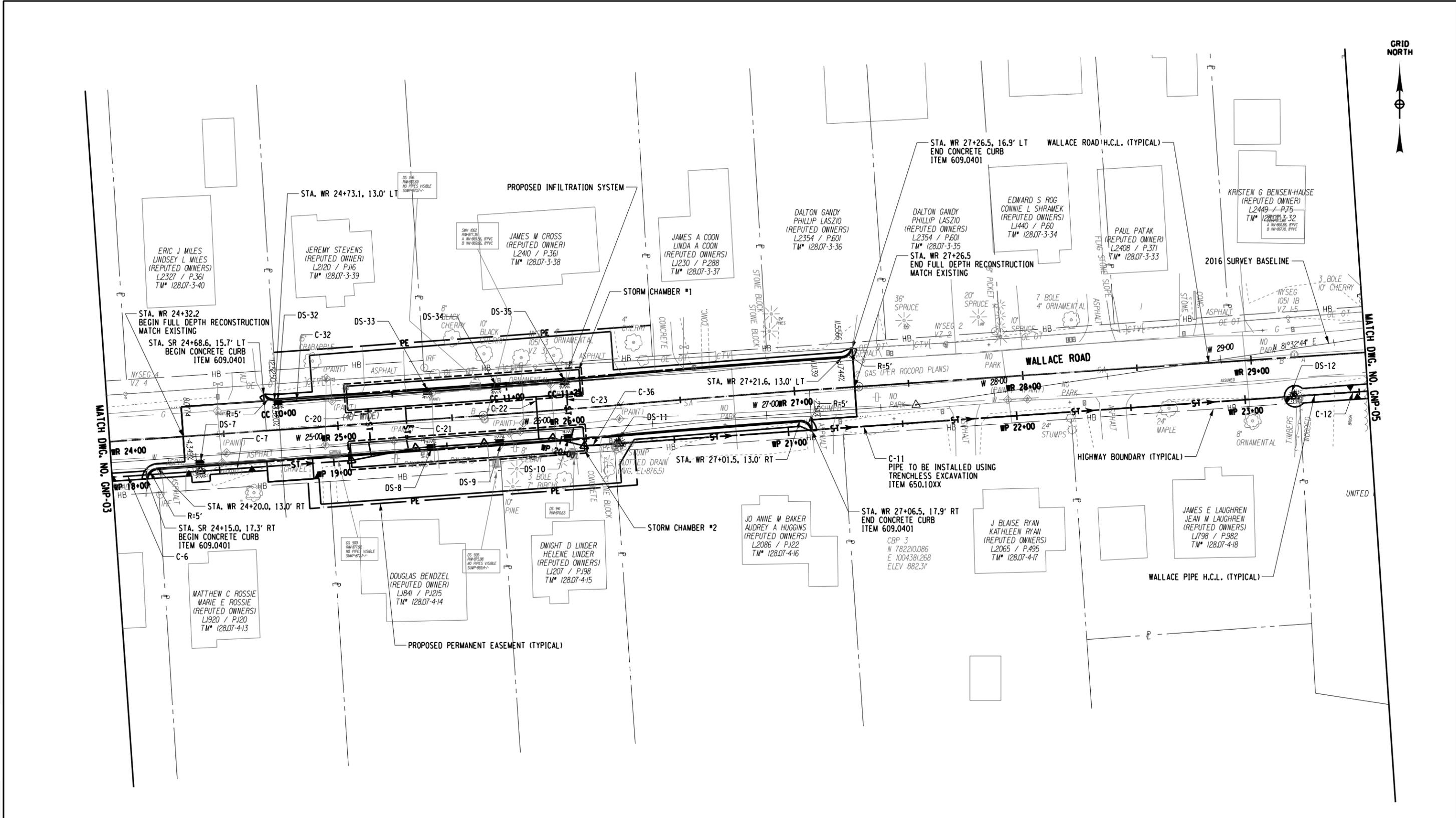
**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
WALLACE ROAD**

	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-03
		DATE NOVEMBER 2016	SHEET OF

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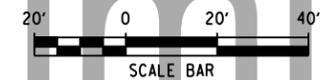
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 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

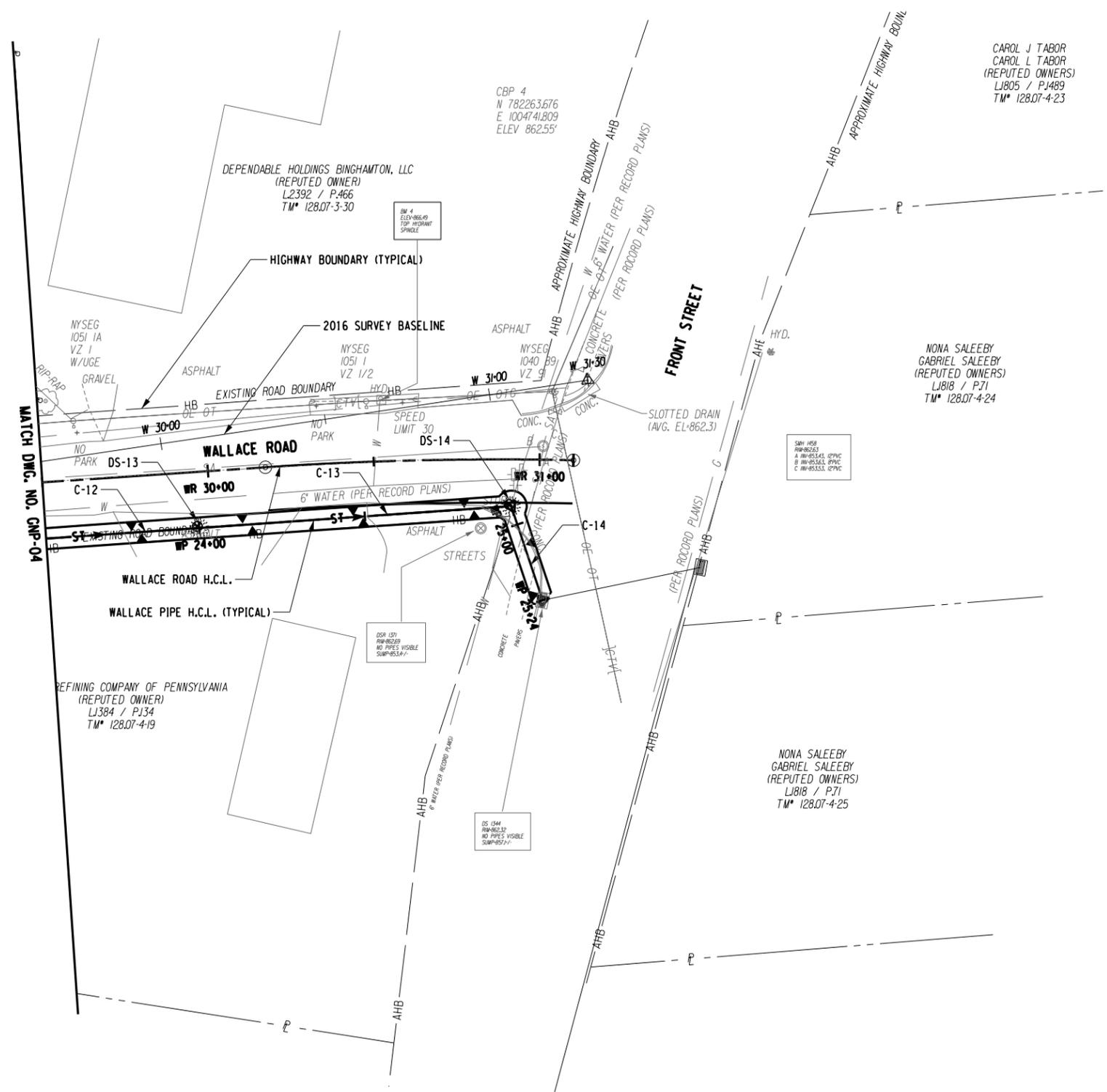
GENERAL PLAN
 WALLACE ROAD



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 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



CAROL J TABOR
 CAROL L TABOR
 (REPUTED OWNERS)
 LJ805 / PJ489
 TM* 128.07-4-23

NONA SALEEBY
 GABRIEL SALEEBY
 (REPUTED OWNERS)
 LJ818 / PJ71
 TM* 128.07-4-24

NONA SALEEBY
 GABRIEL SALEEBY
 (REPUTED OWNERS)
 LJ818 / PJ71
 TM* 128.07-4-25

REFINING COMPANY OF PENNSYLVANIA
 (REPUTED OWNER)
 LJ384 / PJ34
 TM* 128.07-4-19

DEPENDABLE HOLDINGS BINGHAMTON, LLC
 (REPUTED OWNER)
 L2392 / P.466
 TM* 128.07-3-30

CBP 4
 N 782263.676
 E 1004741.809
 ELEV 862.55'

BM 4
 ELEV 862.49
 TOP IRONWAY
 SPINDLE

SM 108
 RW-0225
 A RW-0254, 02PC
 B RW-0254, 02PC
 C RW-0254, 02PC

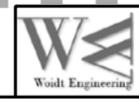
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 SUPP-03.17'

DS 1544
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 SUPP-03.17'

Preliminary

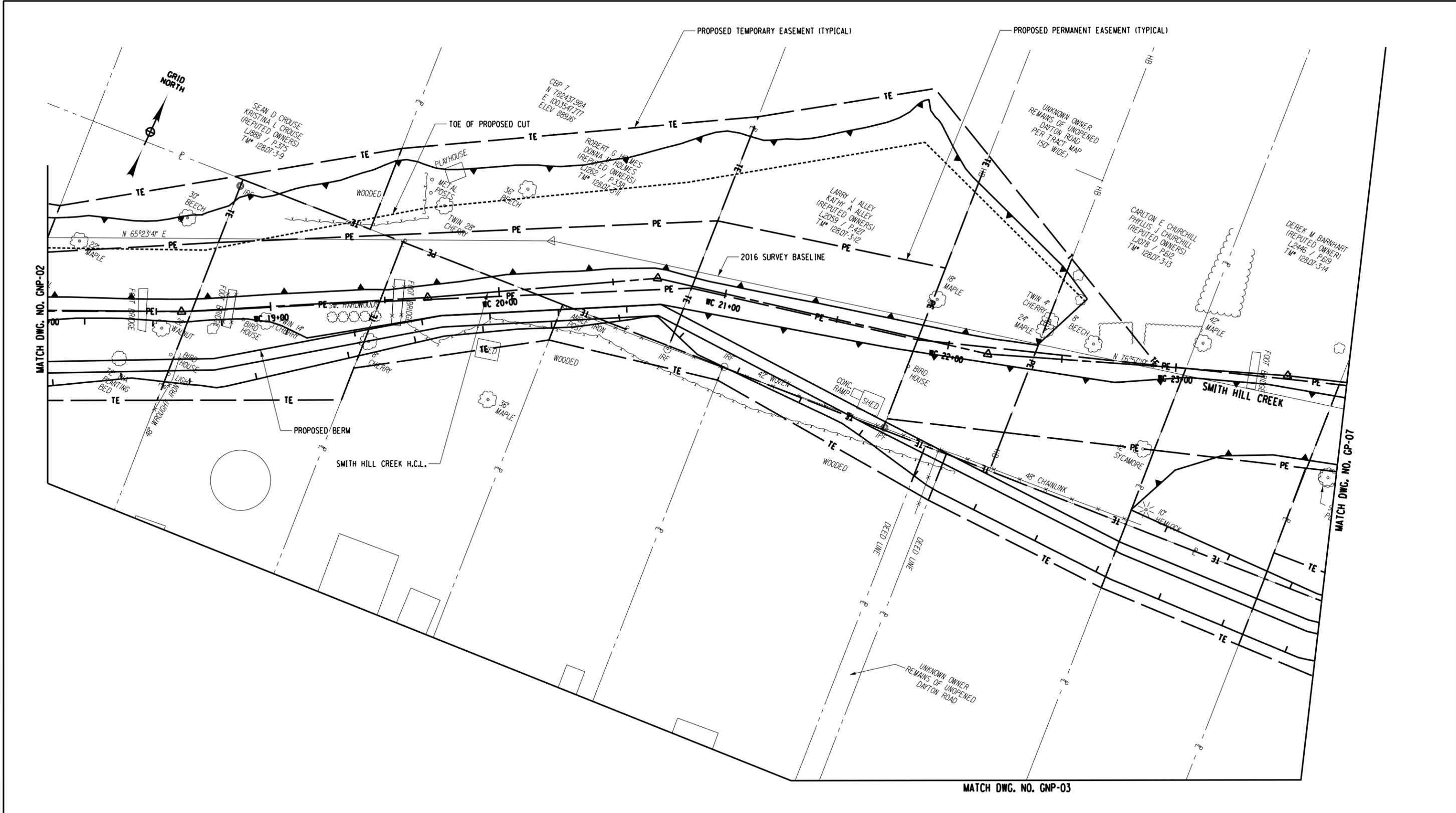


TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
SCALE AS SHOWN	DRAWING NO. GNP-05
DATE NOVEMBER 2016	SHEET OF



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Preliminary

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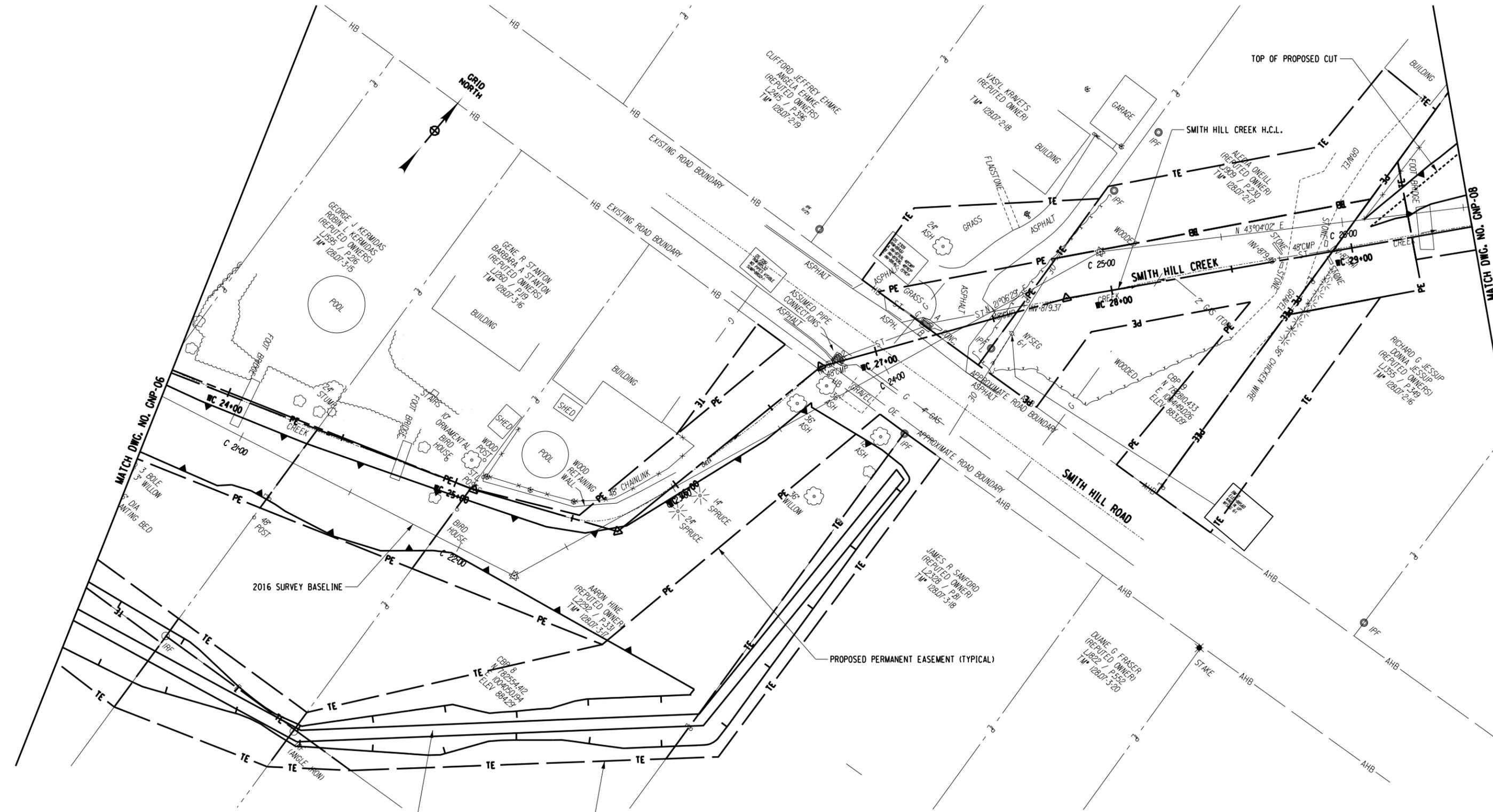
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**

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 DESIGNED BY : SAS
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 MATCH DWG. NO. CMP-06
 MATCH DWG. NO. CMP-08



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 SMITH HILL CREEK



 Woldt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-07
		DATE NOVEMBER 2016	SHEET OF

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CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

12'-8 1/2"

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

PROPOSED ASPHALT
 DRIVEWAY

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

END PAVEMENT
 RESURFACING
 STA. X+XX.XX

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

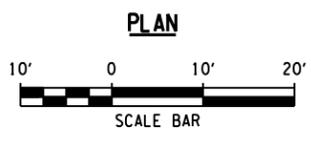
JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.
- 2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



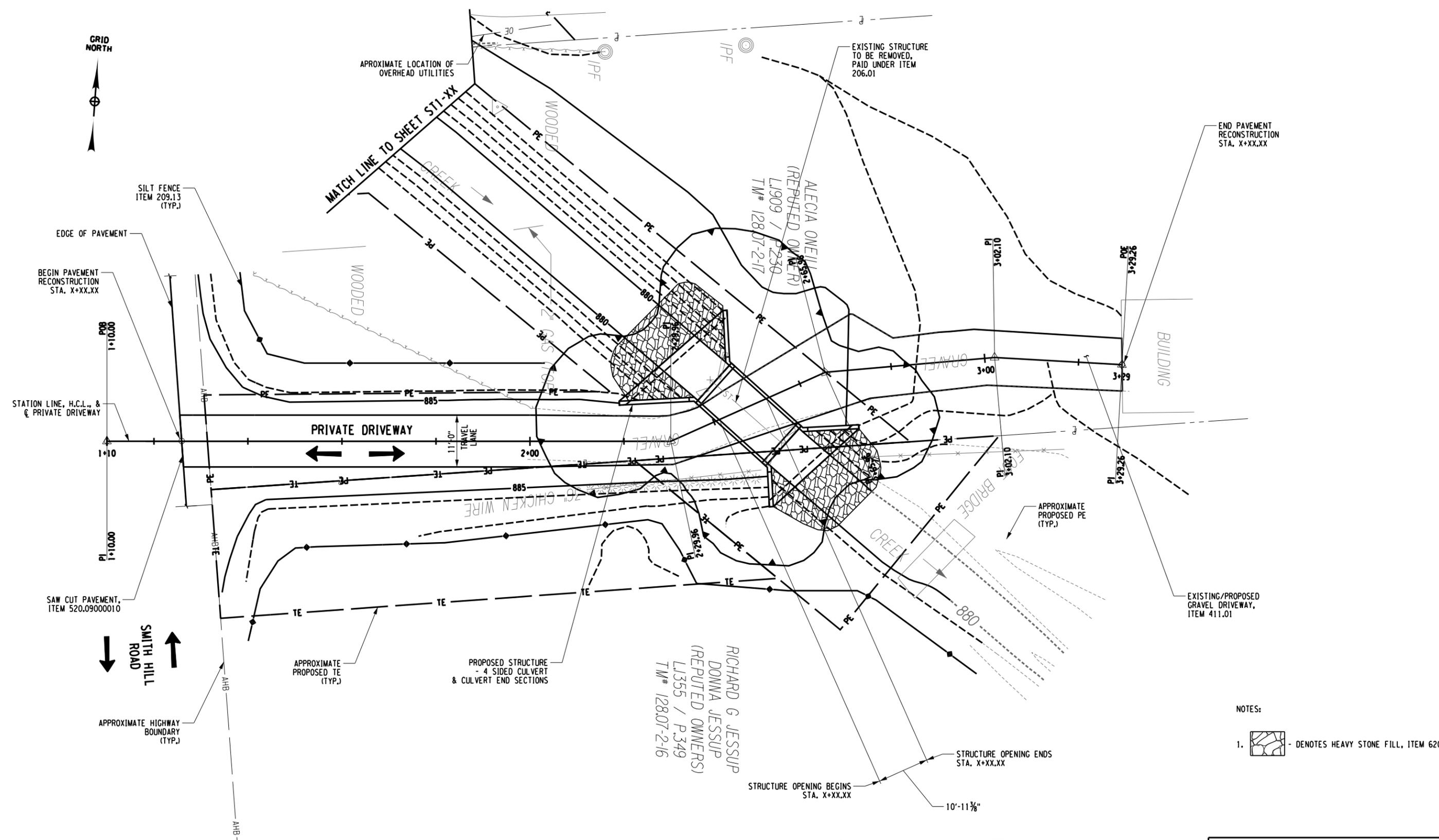
Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN

 Woldt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST1-XX
		DATE NOVEMBER 2016	SHEET XX OF

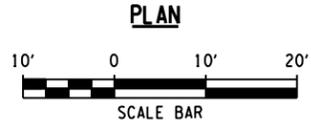
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 THIS IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
 IN CHARGE OF : GJM DESIGNED BY : GJM CHECKED BY : GJM
 DETAILED BY : BNS CHECKED BY : BNS



- NOTES:
1. DENOTES HEAVY STONE FILL, ITEM 620.05.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
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LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

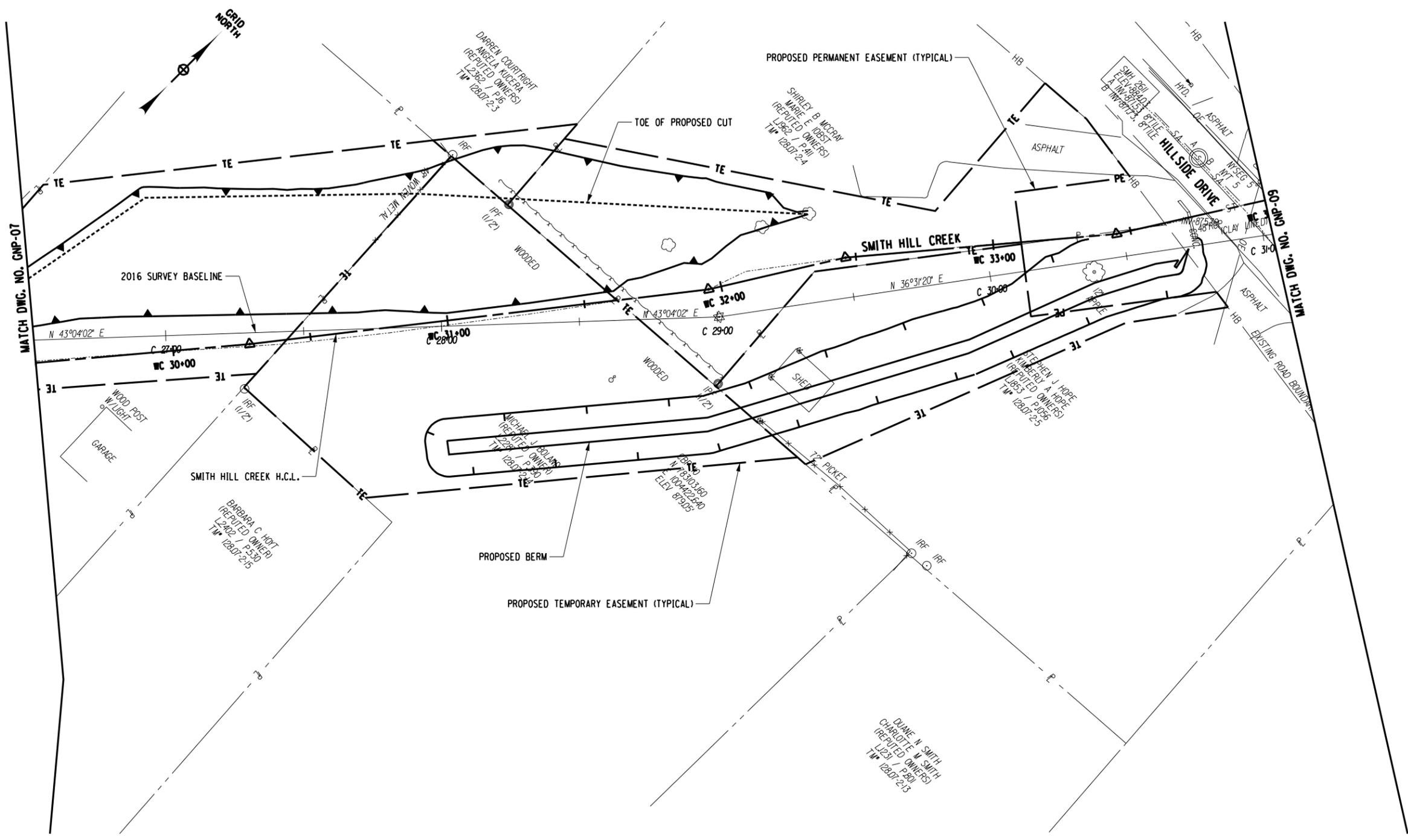


Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM
 SMITH HILL ROAD DRIVEWAY GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST2-XX
		DATE NOVEMBER 2016	SHEET XX OF

IN CHARGE OF : JJM
 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
SCALE BAR	SCALE AS SHOWN
DATE NOVEMBER 2016	DRAWING NO. GNP-08 SHEET OF

W&E
Woodruff Engineering

DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS

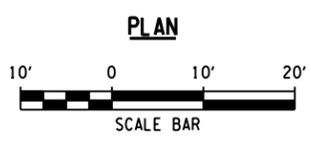
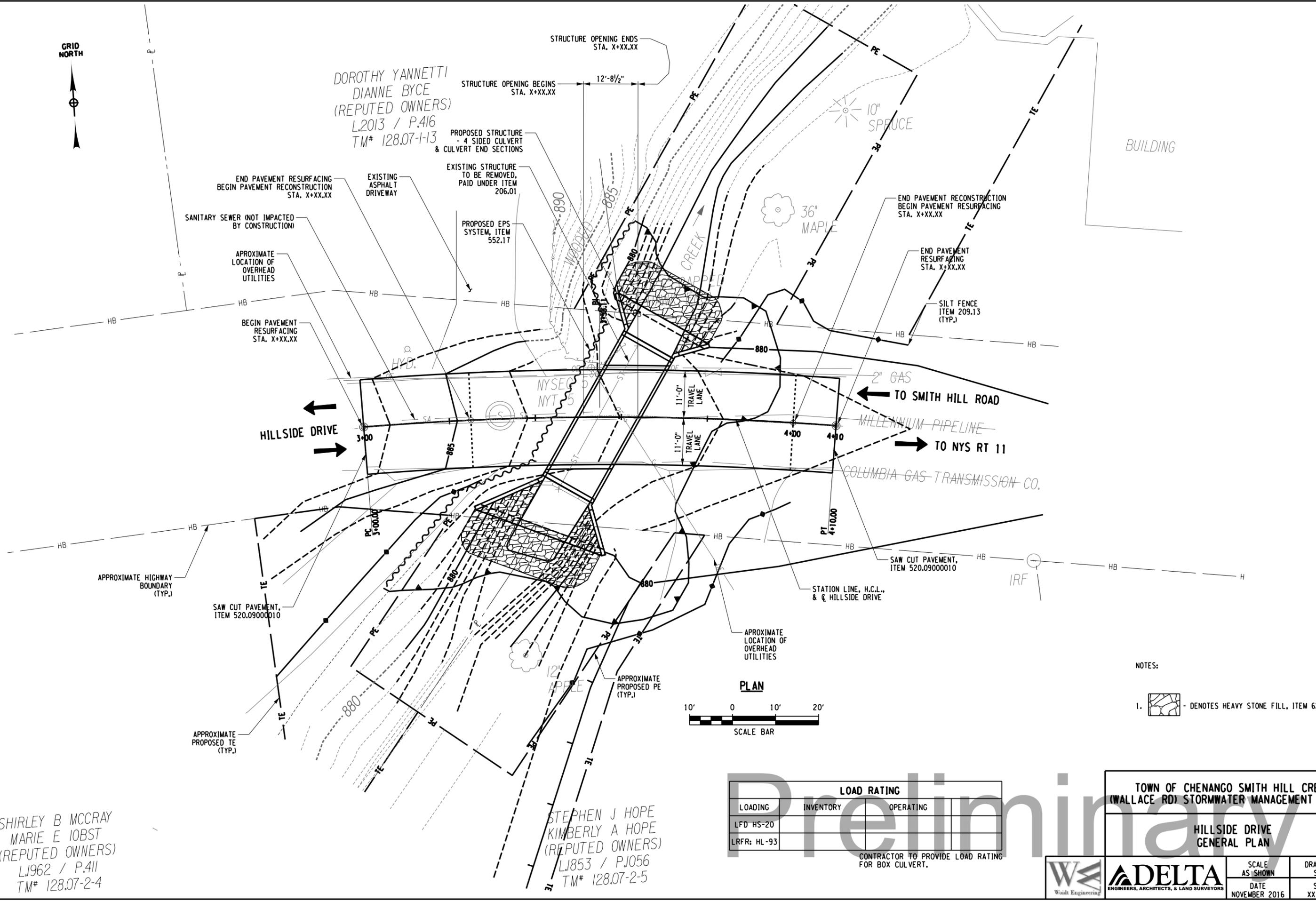
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 CHECKED BY : COM
 DETAILED BY : BNS
 CHECKED BY : COM

SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



LOAD RATING		
LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

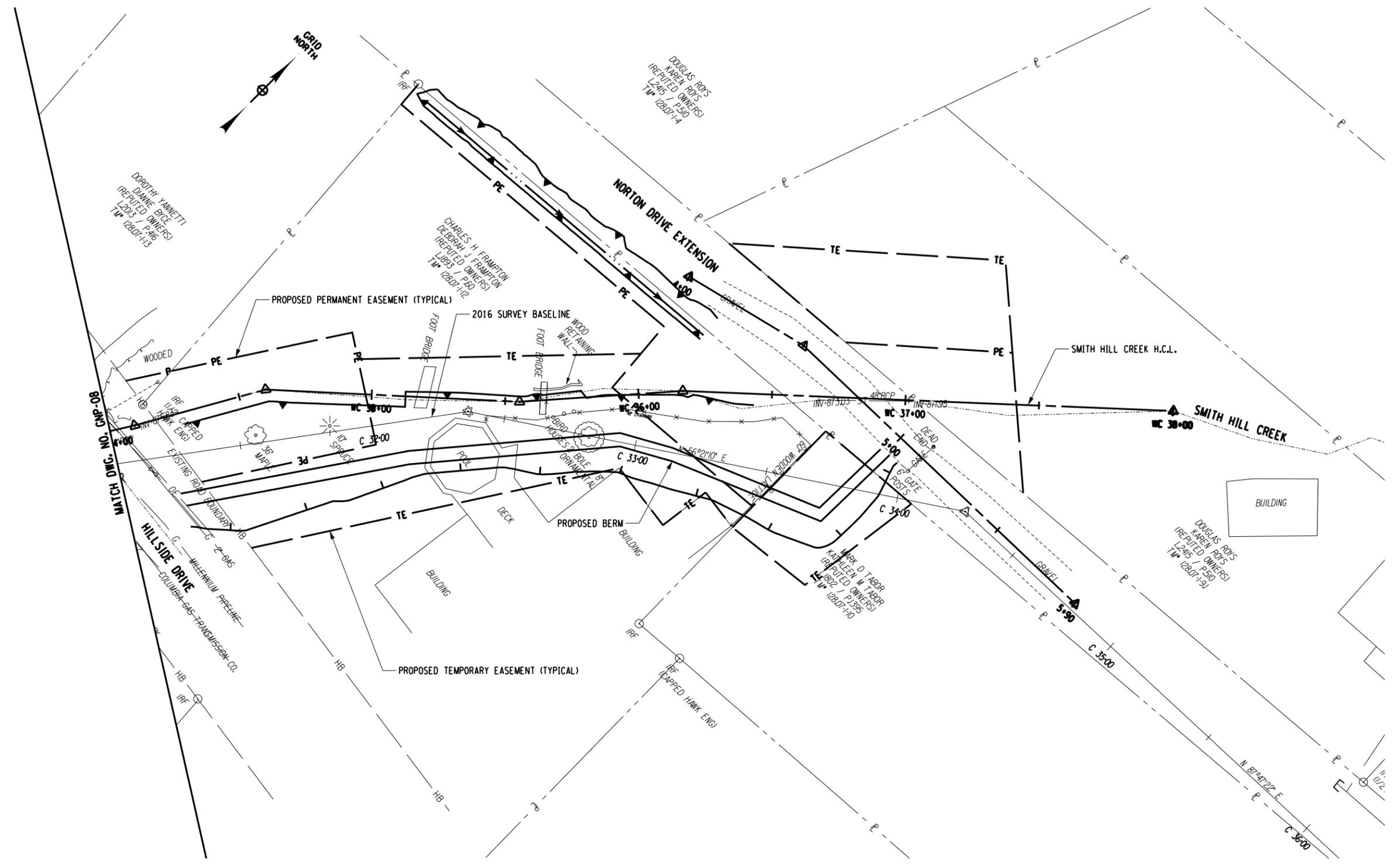
CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF



Preliminary

20' 0 20' 40'

SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 SMITH HILL CREEK**

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		DATE NOVEMBER 2016	SHEET OF

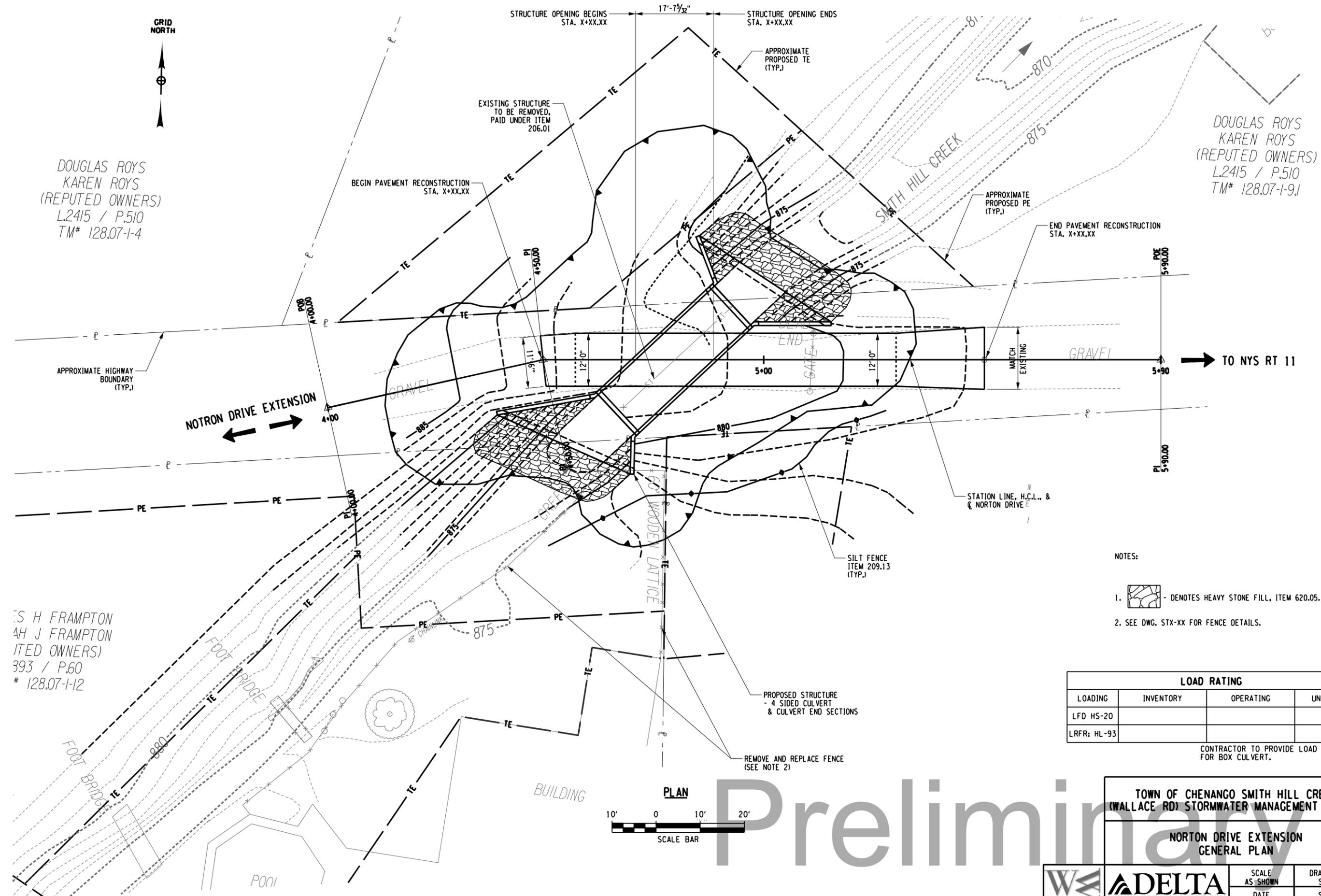
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 DETAILED BY: BNS
 IN CHARGE OF: COM

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



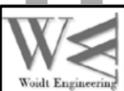
- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

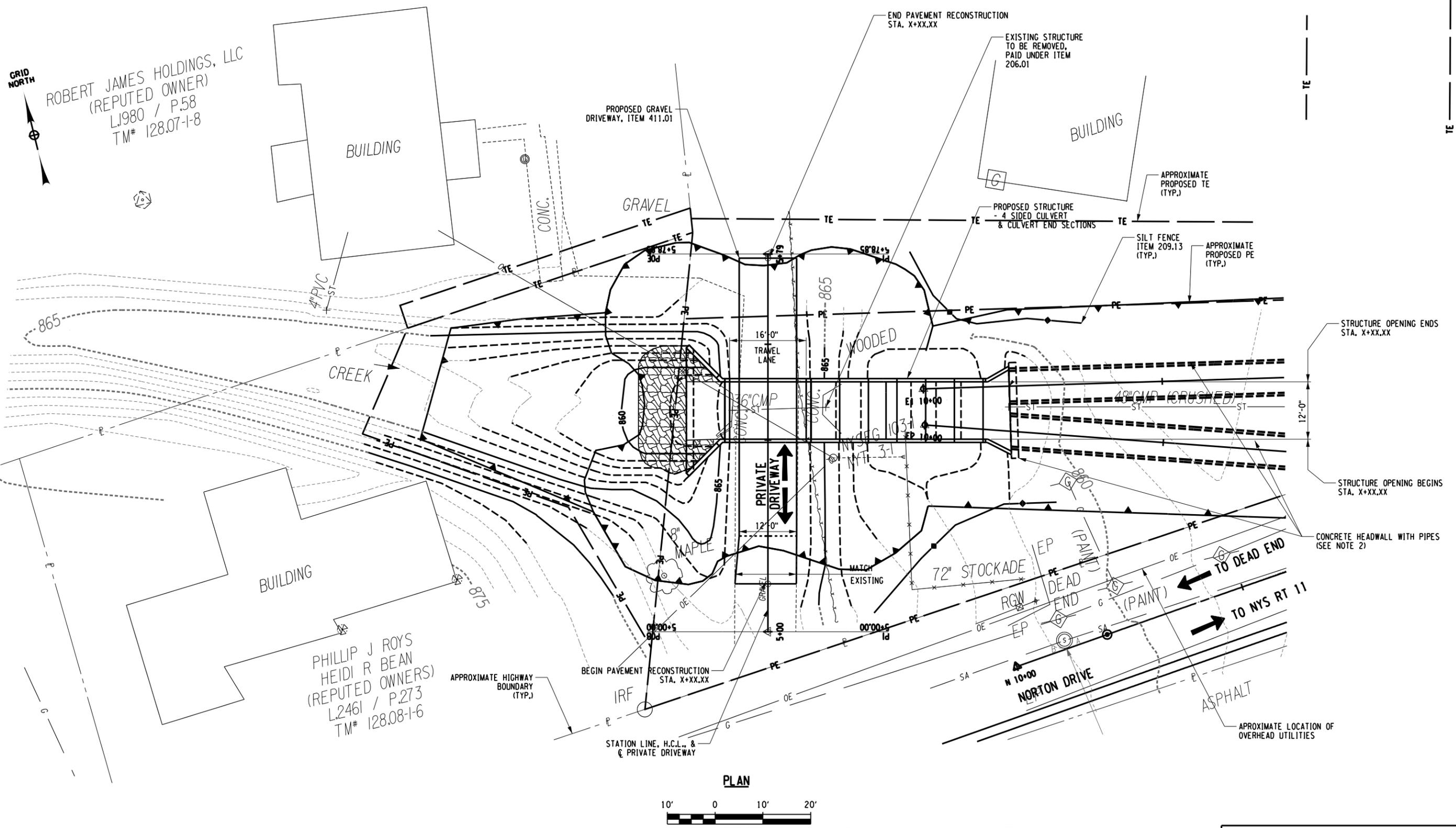
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

 	SCALE AS SHOWN	DRAWING NO. ST4-XX
	DATE NOVEMBER 2016	SHEET XX OF

Preliminary

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 CHECKED BY : CUM

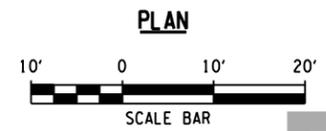


ROBERT JAMES HOLDINGS, LLC
 (REPUTED OWNER)
 L1980 / P.58
 TM# 128.07-1-8

PHILLIP J ROYS
 HEIDI R BEAN
 (REPUTED OWNERS)
 L.2461 / P.273
 TM# 128.08-1-6

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



NOTES:

- DENOTES HEAVY STONE FILL, ITEM 620.05.
- FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY
 GENERAL PLAN

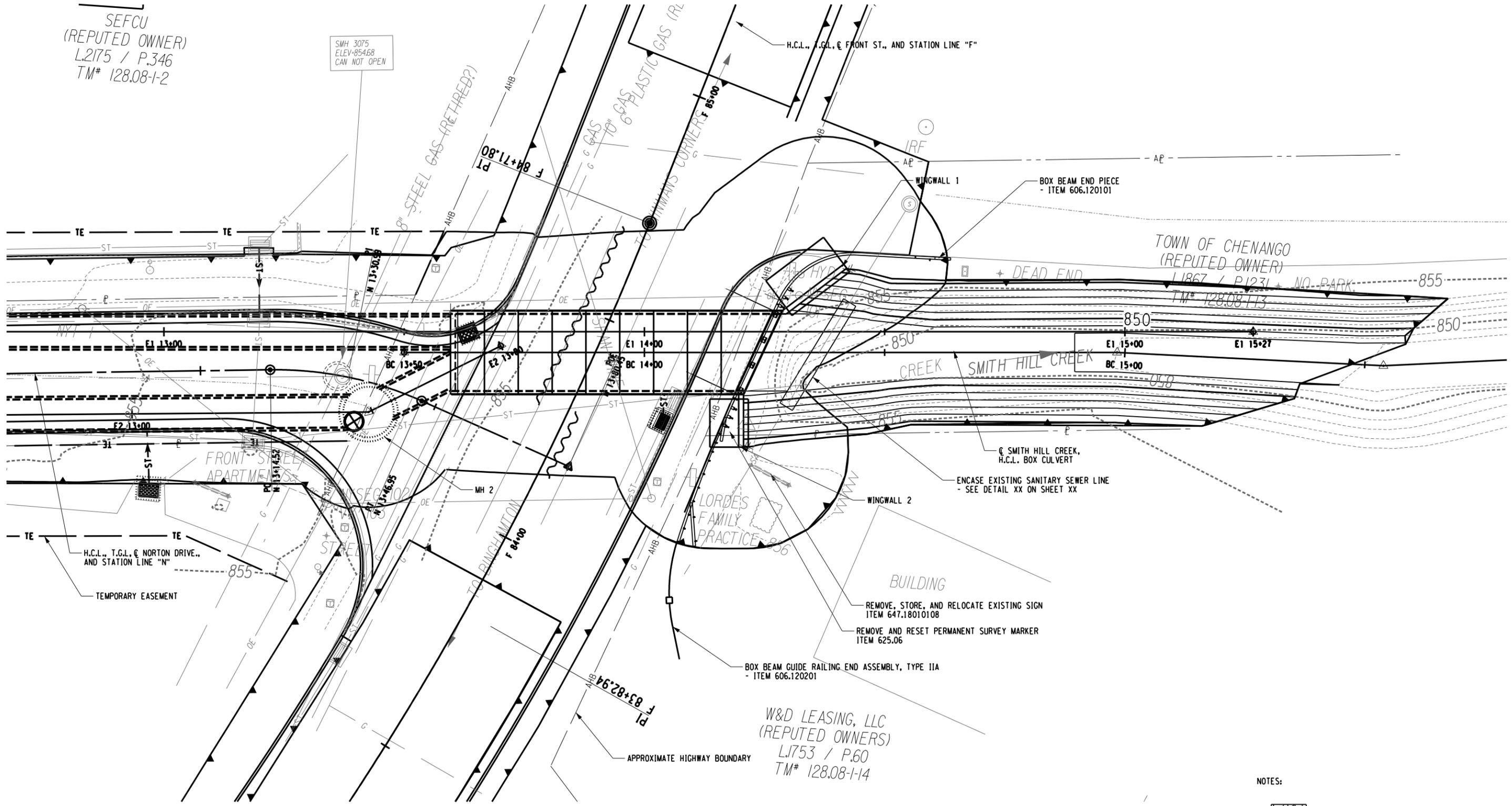
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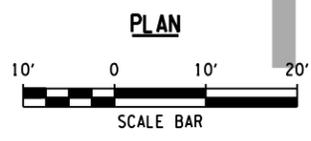
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 CHECKED BY: JJM
 IN CHARGE OF: JJM
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 CHECKED BY: JJM
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 CHECKED BY: JJM

SEFCU
 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN



- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

FRONT STREET
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO.
		DATE NOVEMBER 2016	SHEET OF



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 LUKER ROAD
CORTLAND, NY 13045
PHONE: (607)753-9334 FAX: (607)753-9699
URL: www.fws.gov/northeast/nyfo/es/section7.htm

Consultation Code: 05E1NY00-2017-SLI-0530

December 15, 2016

Event Code: 05E1NY00-2017-E-01335

Project Name: Smith Hill Creek Stormwater Management System

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (

http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Official Species List

Provided by:

New York Ecological Services Field Office

3817 LUKER ROAD

CORTLAND, NY 13045

(607) 753-9334

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Consultation Code: 05E1NY00-2017-SLI-0530

Event Code: 05E1NY00-2017-E-01335

Project Type: LAND - DRAINAGE

Project Name: Smith Hill Creek Stormwater Management System

Project Description: The Town of Chenango is proposing storm water management improvements to Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road in the Town of Chenango, Broome County, New York. The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street. The Project would involve upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek.

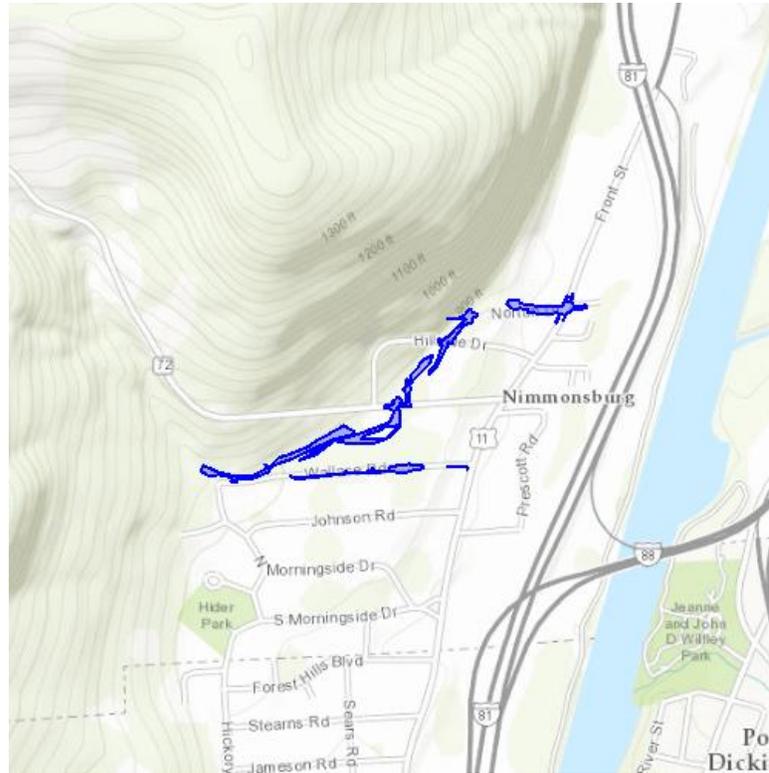
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Broome, NY



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat (<i>Myotis septentrionalis</i>) Population: Wherever found	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: Smith Hill Creek Stormwater Management System

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Northern Long-Eared Bat 4(d) Rule Streamlined Consultation Form

Federal agencies should use this form for the optional streamlined consultation framework for the northern long-eared bat (NLEB). This framework allows federal agencies to rely upon the U.S. Fish and Wildlife Service's (USFWS) January 5, 2016, intra-Service Programmatic Biological Opinion (BO) on the final 4(d) rule for the NLEB for section 7(a)(2) compliance by: (1) notifying the USFWS that an action agency will use the streamlined framework; (2) describing the project with sufficient detail to support the required determination; and (3) enabling the USFWS to track effects and determine if reinitiation of consultation is required per 50 CFR 402.16.

This form is not necessary if an agency determines that a proposed action will have no effect to the NLEB or if the USFWS has concurred in writing with an agency's determination that a proposed action may affect, but is not likely to adversely affect the NLEB (i.e., the standard informal consultation process). Actions that may cause prohibited incidental take require separate formal consultation. Providing this information does not address section 7(a)(2) compliance for any other listed species.

Information to Determine 4(d) Rule Compliance:

YES NO

Information to Determine 4(d) Rule Compliance:	YES	NO
1. Does the project occur wholly outside of the WNS Zone ¹ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Have you contacted the appropriate agency ² to determine if your project is near known hibernacula or maternity roost trees?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Could the project disturb hibernating NLEBs in a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Could the project alter the entrance or interior environment of a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Does the project remove any trees within 0.25 miles of a known hibernaculum at any time of year?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Would the project cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot radius from the maternity roost tree from June 1 through July 31.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

You are eligible to use this form if you have answered yes to question #1 **or** yes to question #2 **and** no to questions 3, 4, 5 and 6. The remainder of the form will be used by the USFWS to track our assumptions in the BO.

Agency and Applicant³ (Name, Email, Phone No.): Town of Chenango, 1529 State Route 12, Binghamton, New York 13901, Contact: Harold Snopek, Town Supervisor, Email: supervisor@townofchenango.com, Phone: (607) 648-4809

Project Name: Smith Creek Stormwater Management System Project

Project Location (include coordinates if known): The project will take place along Smith Hill Creek between Hillside Drive and Wallace Road and drainage improvements along Wallace Road, Town of Chenango, Broome County, New York (see **Figure 1**).

Basic Project Description (provide narrative below or attach additional information):

The Project would include a combination of individual elements along Smith Hill Creek from the north end of Wallace Road and extending downstream to the Creek's outfall near Norton Drive at Front Street.

¹ <http://www.fws.gov/midwest/endangered/mammals/nleb/pdf/WNSZone.pdf>

² See <http://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html>

³ If applicable - only needed for federal actions with applicants (e.g., for a permit, etc.) who are party to the consultation.

The Project would involve upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek. (See attached **Preliminary Site Plan**). This creek is a manmade stream located in the Wallace Road neighborhood in the southern portion of the Town of Chenango. The creek and its associated stormwater management components consist of underground pipes of varying sizes and materials, as well as open swales and culverts that wind through a residential neighborhood and eventually empty into a Broome County-management storm water system along Front Street and then into the Chenango River. A key strategy for Town of Chenango in their New York Rising Community Reconstruction plan is to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce risk and damage to persons and property.

General Project Information

YES NO

	YES	NO
Does the project occur within 0.25 miles of a known hibernaculum?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the project occur within 150 feet of a known maternity roost tree?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the project include forest conversion ⁴ ? (if yes, report acreage below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated total acres of forest conversion		
If known, estimated acres ⁵ of forest conversion from April 1 to October 31		
If known, estimated acres of forest conversion from June 1 to July 31 ⁶		
Does the project include timber harvest? (if yes, report acreage below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated total acres of timber harvest		
If known, estimated acres of timber harvest from April 1 to October 31		
If known, estimated acres of timber harvest from June 1 to July 31		
Does the project include prescribed fire? (if yes, report acreage below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated total acres of prescribed fire		
If known, estimated acres of prescribed fire from April 1 to October 31		
If known, estimated acres of prescribed fire from June 1 to July 31		
Does the project install new wind turbines? (if yes, report capacity in MW below)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Estimated wind capacity (MW)		

Agency Determination:

By signing this form, the action agency determines that this project may affect the NLEB, but that any resulting incidental take of the NLEB is not prohibited by the final 4(d) rule.

If the USFWS does not respond within 30 days from submittal of this form, the action agency may presume that its determination is informed by the best available information and that its project responsibilities under 7(a)(2) with respect to the NLEB are fulfilled through the USFWS January 5, 2016, Programmatic BO. The action agency will update this determination annually for multi-year activities.

The action agency understands that the USFWS presumes that all activities are implemented as described herein. The action agency will promptly report any departures from the described activities to the appropriate USFWS Field Office. The action agency will provide the appropriate USFWS Field

⁴ Any activity that temporarily or permanently removes suitable forested habitat, including, but not limited to, tree removal from development, energy production and transmission, mining, agriculture, etc. (see page 48 of the BO).

⁵ If the project removes less than 10 trees and the acreage is unknown, report the acreage as less than 0.1 acre.

⁶ If the activity includes tree clearing in June and July, also include those acreage in April to October.

Office with the results of any surveys conducted for the NLEB. Involved parties will promptly notify the appropriate USFWS Field Office upon finding a dead, injured, or sick NLEB.

Signature:  _____

Date Submitted: January 25, 2017

Alicia Shultz
Community Developer - Environmental Services
Governor's Office of Storm Recovery
NYS Homes and Community Renewa

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

January 24, 2017

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Smith Hill Creek Stormwater Management System Project
Town/City: Chenango. County: Broome.

Dear Alicia Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity.

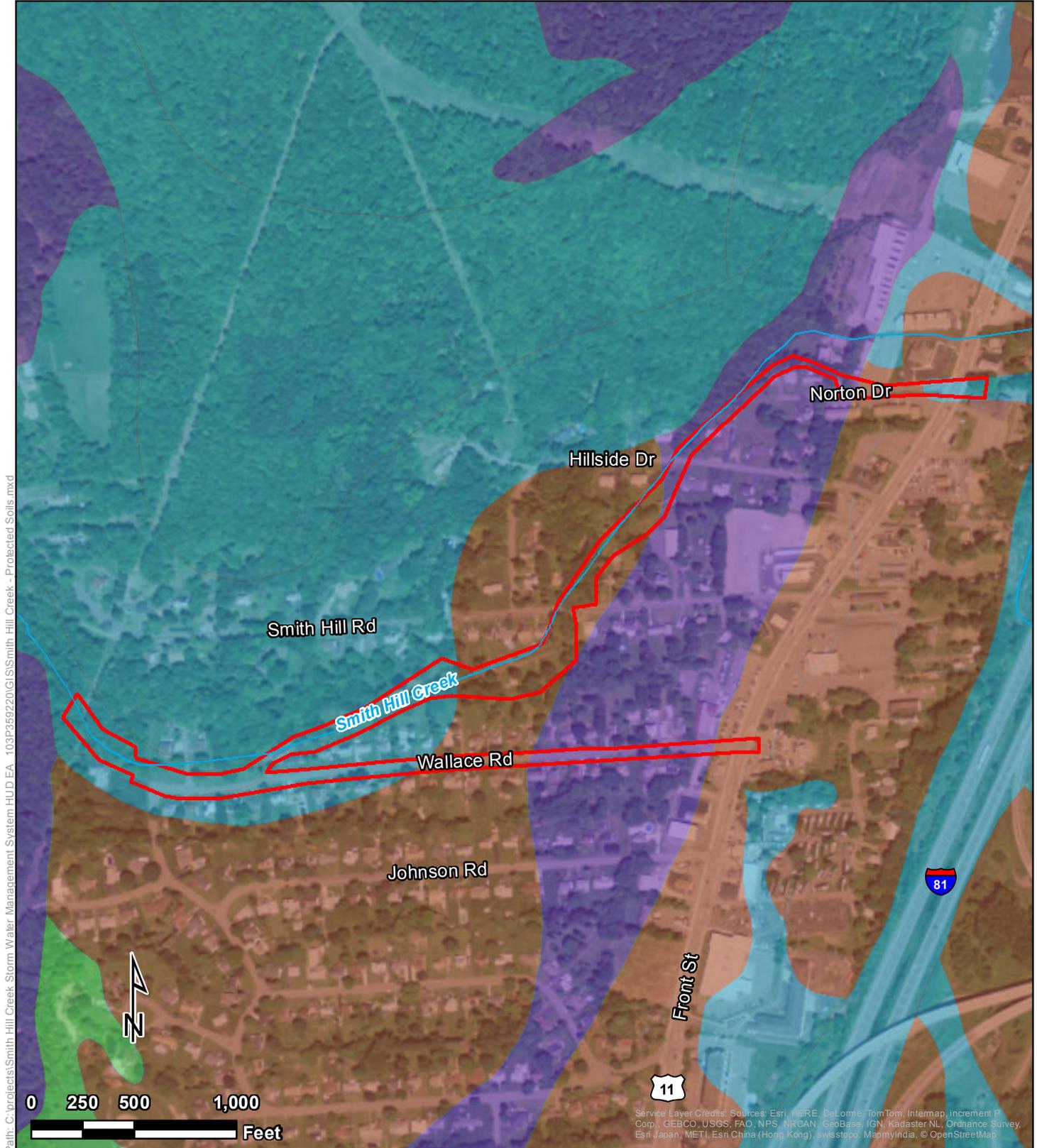
The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage Database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 7 Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,



Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program



Path: C:\projects\Smith Hill Creek Storm Water Management System\HUD EA - 103P369220\GIS\Smith Hill Creek - Protected Soils.mxd

Service Layer Credits: Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap

Legend

- Project Area
- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland
- Prime farmland if drained

Protected Soils

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York





**Governor's Office of
Storm Recovery**

ANDREW M. CUOMO
Governor

LISA BOVA-HIATT
Executive Director

Via Electronic Mail

April 19, 2017

Mr. Larry Moss
Historic Preservation Technical Specialist
New York State Office of Parks, Recreation and Historic Preservation
Division of Historic Preservation
Pebbles Island
P.O. Box 189
Waterford, New York 12188-0189

Re: Section 106 Compliance for the Smith Hill Creek (Wallace Road) Storm Water Management System Project,
Town of Chenango, Broome County, New York (*Corrected Project Area*)

Dear Mr. Moss:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. §5301 et seq.), the Governor's Office of Storm Recovery (GOSR), an office of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"), is serving as the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and request for consultation.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. A consultation request for the project described herein will also be sent to the Tribal Historic Preservation Offices for the Delaware Nation, Delaware Tribe of Indians, Oneida Indian Nation, Onondaga Nation, Seneca-Cayuga Nation, Stockbridge-Munsee Community Band of Mohicans, and Tuscarora Nation of New York. In accordance with Section 106 of the National Historic Preservation Act ("NHPA") of 1966, as amended (54 U.S.C. §306108), and its implementing regulations, 36 Code of Federal Regulations ("CFR") Part 800, this letter serves as notification of the proposed action.

Proposed Project Description: GOSR proposes to fund an application for storm water management improvements to Wallace Road and Smith Hill Creek between Wallace Road and Front Street, in the Nimmonsburg section of the Town of Chenango, Broome County, New York. The Project is centered at approximately Lat. 42.144739°, Long. -75.9100011°. The existing Smith Hill Creek storm water system failed during Tropical Storm Lee in September 2011. During the storm, the system was overwhelmed by sheet flow draining off local hills and became clogged with debris. The Project will make improvements to the storm drains in Wallace Road and to the existing, artificially modified channel of Smith Hill Creek, including replacement of existing culverts beside Wallace Road, beneath Norton Drive-Front Street, and at stream crossings beneath Smith Hill Road, Hillside Drive, and Norton Drive Extension. These improvements will contribute to the Town of Chenango's plans under the New York Rising Community Reconstruction program to increase the capacity

and effectiveness of storm water management facilities to handle significant storm events, helping to prevent or reduce risk and damage to persons and property.

The Project involves approximately 5,316 linear feet of improvements along Wallace Road and Smith Hill Creek. Planned improvements include replacing and enlarging existing culverts, modifying the existing drainage cross-sections at various points along the creek, and installing check dams, catch basins, an infiltration system, storm drainage piping, and trash racks. Work covering a total length of approximately 1,796 feet is planned for two sections of Wallace Road. At the eastern end of Wallace Road, 608 feet of 24-inch overflow outlet pipe will be installed to carry excess storm water to the New York State Department of Transportation system in Front Street. In the central and western sections of Wallace Road, 892 feet of drainage pipe will be installed (including two laterals totaling 60 feet), which will lead to a subgrade soil infiltration system to disperse storm water. With a total length of 296 feet, the infiltration system will be installed in the street and in some front yards between 7 and 18 Wallace Road. The Smith Hill Creek component of the project extends for a total of approximately 3,860 feet along the channel, beginning west of the end of Wallace Road at North Morningside Drive and extending downstream and easterly to the outfall of a culvert beneath Front Street at Van Etten Road. Work along Smith Hill Creek involves:

- 2,153± linear feet of channel re-grading and bank improvements including construction of benches and berms along the existing, artificial creek channel;
- 468± feet of culvert (drainage pipe) replacement in front of 50 and 52 Wallace Road;
- 224± feet of culvert improvements and embankment rehabilitation at four locations, Smith Hill Road, Hillside Drive, Norton Drive, and the private driveway at 287 Smith Hill Road; and
- 675± feet of culvert and channel improvements at the eastern end of Norton Drive, extending to Front Street at Van Etten Road and including the private driveway for 10 Norton Drive.

No work is planned for approximately 340 feet of channel in a meander of the creek between Norton Drive Extension and 10 Norton Drive.

Potential Project Effects: The overall Project requires vegetation removal; removal of street surfaces and, in some places, curbs and walks; excavations, cutting, filling, and grading; installation of pipes and culverts; construction of soil berms; placement of rip-rap or similar armoring; and post-construction restoration of soil surfaces and the like. Excavations will occur in previously modified areas, including Wallace Road and the entire affected section of Smith Hill Creek. The maximum depth of excavation for the Project will be 10 feet, but will be shallower in most areas. The Project width varies. In Wallace Road, pipe trenches will be 5 to 6 feet wide, while the infiltration system will require an excavation 25 to 65 feet wide. Along Smith Hill Creek, the limits of excavation and construction will typically range between approximately 30 and 80 feet wide, with a maximum width of around 120 feet.

Area of Potential Effects: The Project's total direct area of potential effects (direct APE) resulting from construction-related ground disturbance is 4.8 acres, as reported in the Project's Full Environmental Assessment Form signed by Chenango Town Supervisor Harold Snopek on March 20, 2017, and transmitted on March 21, 2017, by Lori A. Shirley, Director, Bureau of Environmental Review and Assessment, Governor's Office of Storm Recovery, to interested state agencies including the State Historic Preservation Office (SHPO). The indirect APE is minimally larger, as most improvements will either be below restored grades, or will be visible only from the rear of adjoining houses, at distances of up to approximately 300 feet.

Existing Conditions: The Project is situated in a residential neighborhood in the valley of Chenango Creek at the foot of the adjoining hills, which rise approximately 500 feet above the area. According to topographic maps and the *Surficial*

Geologic Map of New York: Finger Lakes Sheet, (1:250,000, 1986), the Project is situated on a late Pleistocene glacial kame feature 30 to 40 feet above the historic level of Chenango Creek floodplain. The neighborhood consists of detached single-family houses on lots that typically range in size from 0.35 to 0.8 acres or larger. Tax records indicate the majority of the houses were built in the 1940s and 1950s. Surrounding the houses the lots are landscaped with lawns, shrubs, and trees. Behind and between the houses there are many minor structures, including detached garages, sheds and shops, and aboveground swimming pools. The northern and southern ends of the project area in the vicinity of Front Street are commercial in character. The hills above are wooded in second growth forests, which occupy former pasture and agricultural land, which ceased to be used for farming in the middle decades of the twentieth century.

Smith Hill Creek is a first-order stream that drains a broad ravine northwest of the Project area. Smith Hill Road climbs the northern side of this ravine to cross the hill on the west. Coming out of the ravine, the stream flows northeasterly for a half mile, skirting the base of the hill, and then curves to the southeast as it crosses the valley floor to its confluence with Chenango Creek. The mouth of Smith Hill Creek was originally east of the northern end of the Project area, but with channel straightening and bank extension of Chenango Creek in conjunction with construction of I-81 in the 1960s, the mouth was shifted south, so it is now approximately 0.25 mile east-southeast of Wallace Road.

Smith Hill Creek is usually a narrow stream a few feet across. In many points along the Project, adjoining homeowners have spanned the creek with informal bridges of one or two boards. Between Wallace Road and Norton Avenue/Norton Avenue Extension, the creek flows at the bottom of a smoothed drainage-way, whose regularity of form and absence of cut banks and natural terraces indicate that the present stream course is artificial. The stream course follows a series of straight-line reaches through the Wallace Road-Norton Avenue portion of the Project area. Unlike the stream course upstream of the Project Area and in the apparently natural meander segment north of Norton Avenue, the channel in the Wallace Road-Norton Avenue segment has few small-scale meanders and minimal bends, further indicating that it has been channelized. At the western and eastern ends of the Project area, Smith Hill Creek is artificially confined in culverts.

The alteration of the stream course appears to be closely tied to historical development of the neighborhood adjoining the Project area. Plane table topographic mapping undertaken by the U.S. Geological Survey (USGS) in 1934 for a new 7.5-minute series map (the *Castle Creek, NY* quadrangle) depicts the stream following a gently sinuous course from the mouth of the ravine northeast toward the bend leading to its confluence with Chenango Creek (*Castle Creek, NY*, 7.5-minute quadrangle 1934 provisional edition and 1942 edition). Mapping prior to the Second World War also shows Wallace Road as absent and except for a half dozen houses on Smith Hill Road near the intersection of Front Street, so the present residential neighborhood had not yet been developed. Airphotos dated 1942 and 1948 (Photos AR1AD0000010088 and AR1FP0000060065, respectively, from <https://earthexplorer.usgs.gov/>), however, depict Wallace Road as constructed over most of its present length and 20-plus houses standing along it. In addition, the sinuous stream course of the 1934 mapping had been altered to its present straightened and more angular course between the end of Wallace Road and Norton Drive. The topographic and drainage mapping of the 1934 7.5-minute *Castle Creek, NY*, quadrangle map was not superseded until its 1968 edition. No longer relying on the older plane table mapping but produced by photogrammetry from airphotos flown in 1967, the 1968 edition of this quadrangle map depicts, for the first time, the present more angular course of the stream. Comparison of the 1934/42 and 1968 maps indicates that the stream channel was shifted at different points east and west by distances of up to 30 to 65 feet. Given the small scale of the maps relative to the area under consideration, the measured distances are only approximate, but nonetheless, the maps, in conjunction with the earliest available air photos, indicate substantial landscape alterations after 1934 and before 1942.

Examination of air photos from 1950s through the 1990s (also available at <https://earthexplorer.usgs.gov/>) found that the section of the stream in front of 50 and 52 Wallace Road was completed in two stages: the portion in front of Number 52 was completed after 1948 and before 1958 (probably ca. 1957), while that in front of Number 50 was completed between

1958 and 1967 (probably ca. 1963). These photos also showed that the culvert that carries Norton Drive over the creek was constructed between 1967 and 1987 (probably ca. 1985). Finally, these sources indicated that the creek in the vicinity of Norton Drive and Front Street was already partially carried in a culvert by 1948, with additional culvert length added by ca. 1960.

Previous Documentation: A recent review of the New York Cultural Resource Information System (NY-CRIS) found that the Project area is situated in a SHPO archaeological sensitivity zone due to its proximity to recorded sites along Chenango Creek, but that the direct APE contains no inventoried archaeological sites.

The review also indicated that there are no extant inventoried aboveground properties in or adjoining the Project's direct effects footprint. At the southeastern end of the Project, NY-CRIS shows two buildings as inventoried within approximately 50 meters of the intersection of Wallace Road and Front Street (at 1047 and 1055 Front Street—USNs 00703.000053 and 00703.000055, respectively), but an examination of current Broome County tax maps found that neither building is now extant, as the two properties currently contain buildings constructed in 2001 (at 1059 Front Street) and 2010 (at 1043 Front Street). At the northeastern end of the Project, NY-CRIS records five inventoried architectural properties at the intersection of Front Street with Norton Drive and with Van Etten Road. These are:

- 1129 Front Street (USN 00703.000075) – a pair of two-story apartment buildings built in 1980.*
- 1130 Front Street (USN 00703.000076) – medical arts building built in 1990.*
- 1135 Front Street (USN 00703.000077) – demolished; lot incorporated into 1137 Front St., which see.
- 1136 Front Street (USN 00703.000078) – commercial building containing a hair salon and audio store, built 1960.*
- 1137 Front Street (USN 00703.000079) – demolished. Lot as currently configured—i.e., Parcel 128.08-1-2—incorporates land formerly occupied by both 1135 and 1137 Front St. The current building, occupied by SEFCU credit union, was constructed after November 2006 and before October 2008, per Google Earth aerial imagery.

**Build date per Broome Co. tax records.*

NY-CRIS records the NRHP eligibility status of 1129, 1130, and 1135 Front Street as Undetermined, but assigns an Eligible status to 1136 and 1137 Front Street. As noted, earlier buildings at 1135 and 1137 have been razed, and a new building, constructed 2006-2008, stands in their place, so the earlier documentation for the two earlier buildings is not pertinent to the present study. The assignment of an NRHP-eligible status to the commercial building at 1136 Front Street seems inappropriate, given its comparatively recent date of construction, as reported by tax records, and the lack of distinguishing architectural characteristics. It is not, however, necessary to revisit the potential eligibility of any of these buildings, however, as they all are situated outside the construction footprint (direct effects APE) of the proposed Project.

Assessment of Effects: Although situated in a SHPO archaeological sensitivity zone, the Project is assessed as having low potential to affect archaeological resources. The topographic setting of the Wallace Road section, on late glacial kame deposits above the historical floodplain of Chenango Creek, indicates that any archaeological sites that may once have been present would have been relatively shallow and would likely have been destroyed or severely compromised by the construction of the street and subdivision development beginning around 1940. The direct APE in Wallace Road is therefore situated in a previously disturbed area. The Smith Hill Creek section of the Project consists of drainage improvements and culvert construction in areas that were apparently extensively modified by the channelization of the stream in ca. 1940, with additional alteration by stream confinement in culverts, primarily in the 1950s and 1960s. Previous disturbances likely included ditching, grading, and excavation. In light of this history, archaeological investigation does not appear warranted, as it is unlikely that intact archaeological deposits are present. The Project also is not likely to result in affect aboveground resources. The residential neighborhood does not appear to possess qualities that might indicate a historic district representing an architecturally or historically significant mid-twentieth century housing development. Moreover, the Project effects will be limited to the ground surface, which will be restored after construction.

In brief, the proposed Project is judged as likely to result in **No Historic Properties Affected**, pursuant to Section 106 of the National Historic Preservation Act.

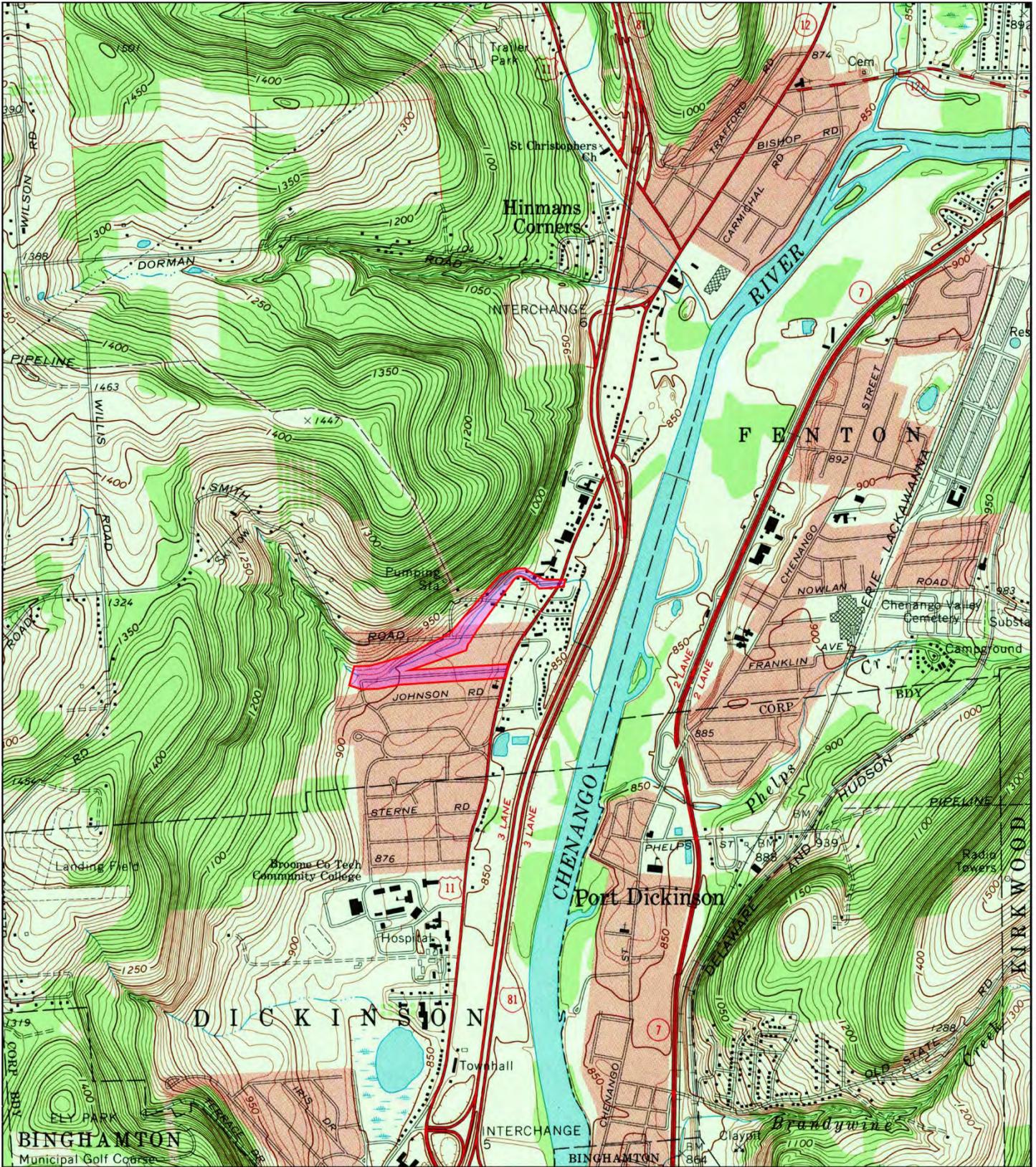
Request for Comment: The purpose of this letter is to initiate consultation pursuant to Section 106 of the NHPA per the implementing regulations at 36 Code of Federal Regulations (CFR) Part 800. GOSR respectfully requests your review of the proposed Project described herein. If you have any questions or require additional information regarding this request, please feel free to contact me at (518) 474-0647 or via email at Alicia.Shultz@nyshcr.org. Thank you for your time and consideration.

Sincerely,



Alicia Shultz
Senior Environmental Scientist / Project Lead
New York State Homes & Community Renewal
38-40 State St., 408N
Hampton Plaza, Albany, NY 12207

Enclosure:
Project Location Map



1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Legend

 Project Area

Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

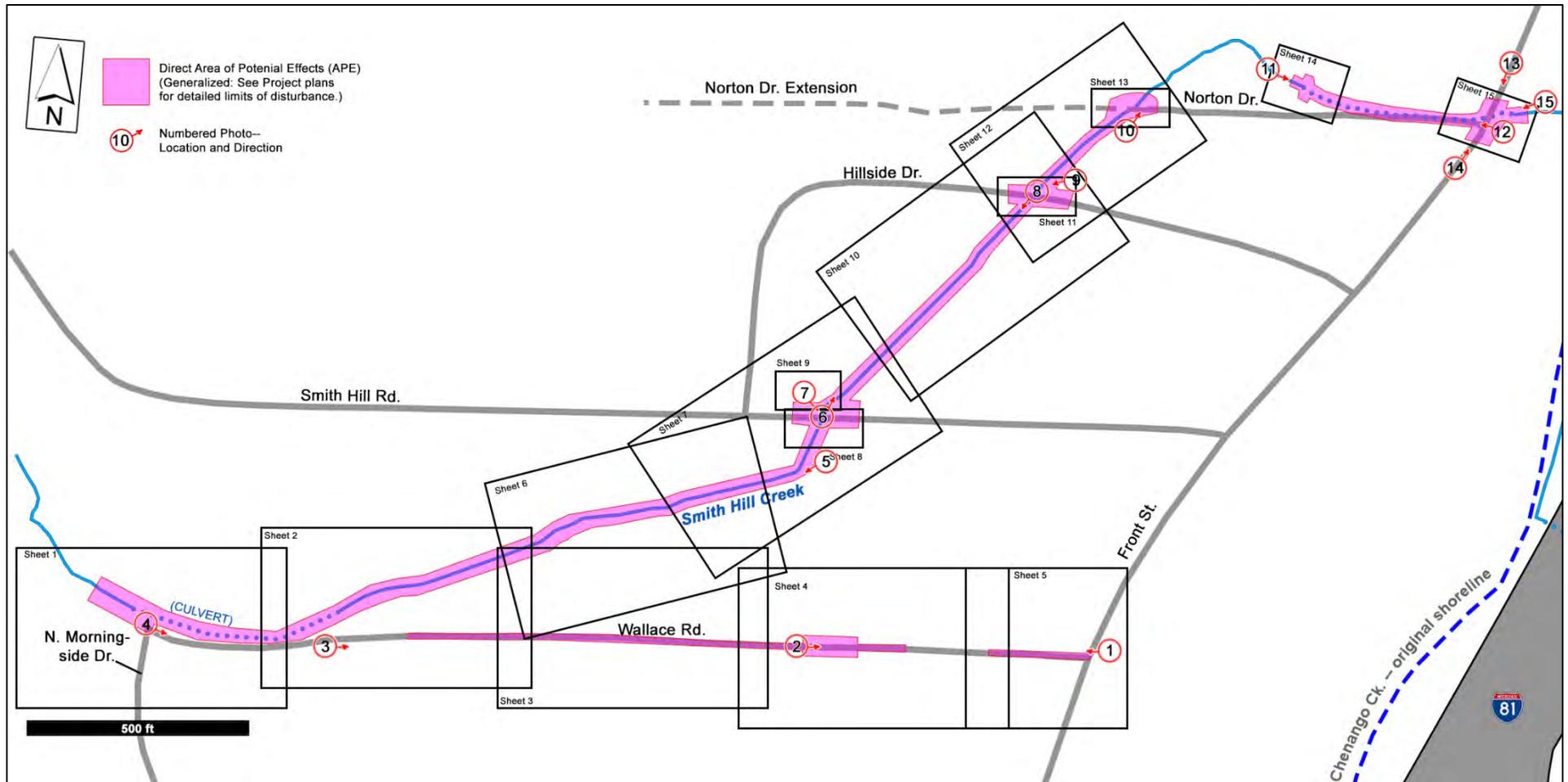


Tetra Tech, Inc

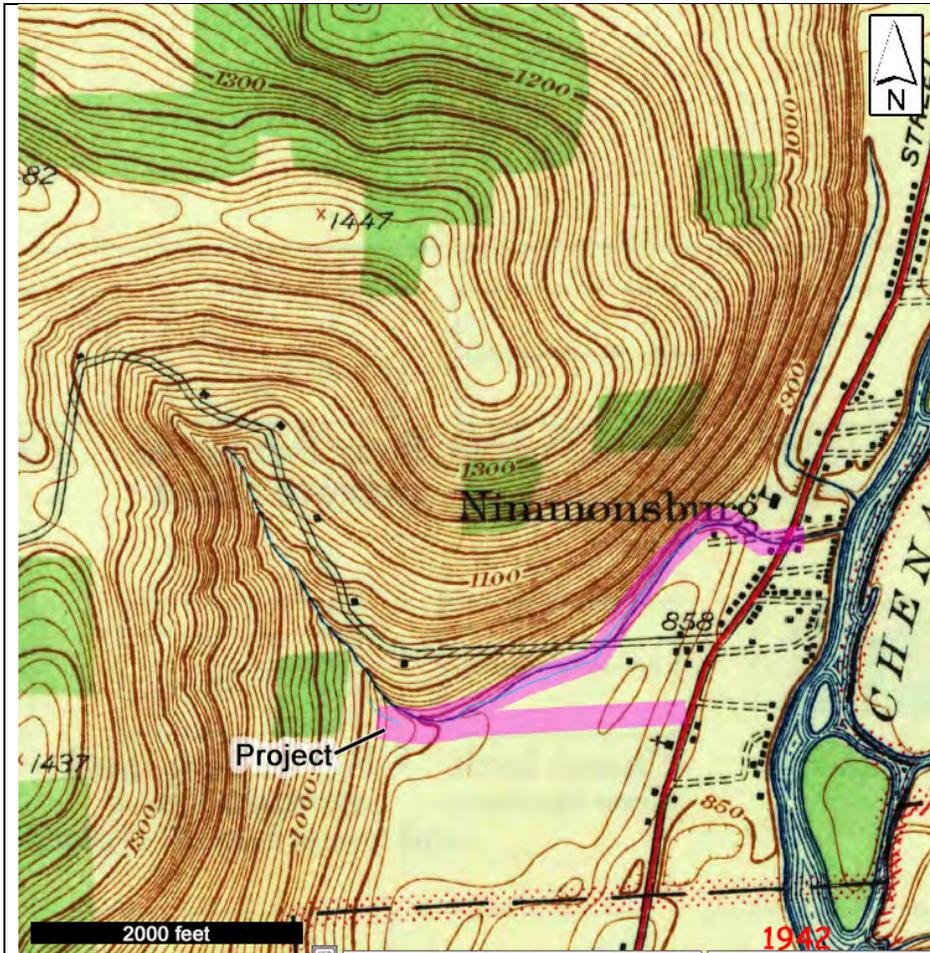
Base map: USGS Castle Creek, NY, 7.5-minute quadrangle, 1968 edition, photoinspected 1976.

Section 106 Compliance for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

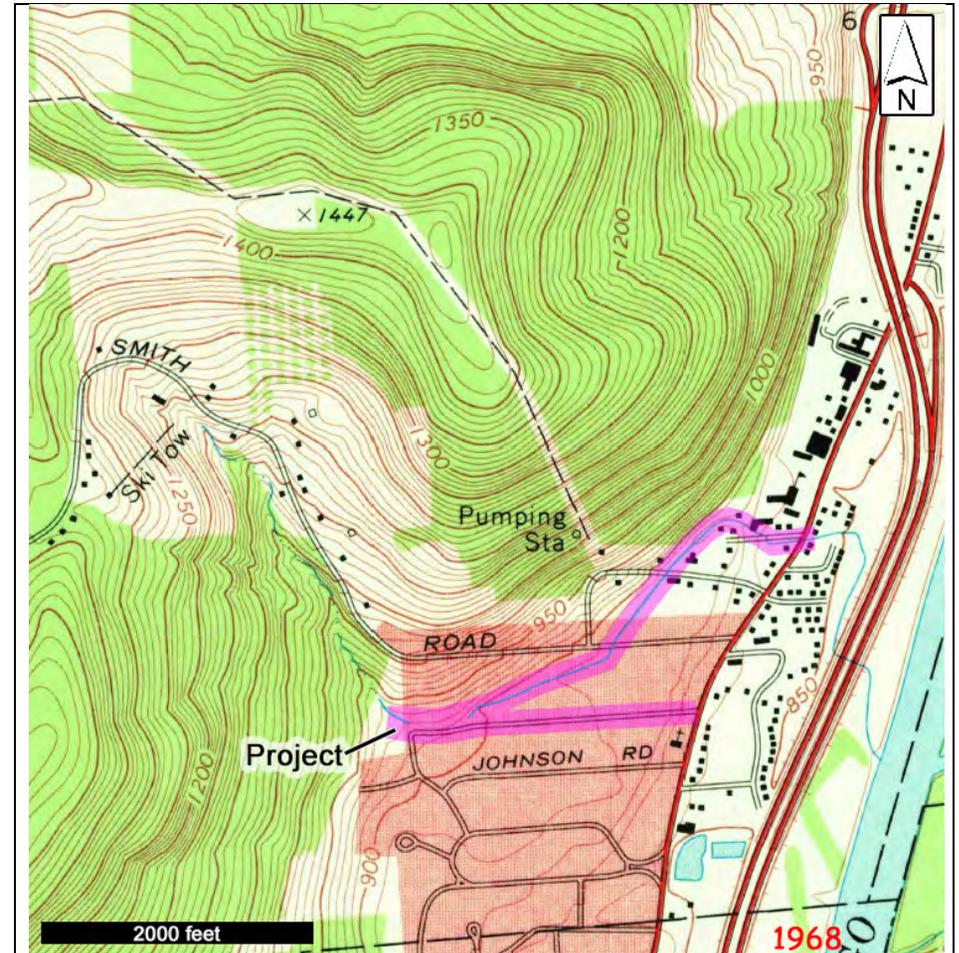
Corrected NY-CRIS submittal, 4/19/2017



Sketch Map of Project Area, with Generalized Direct Area of Potential Effects, Index of "Smith Hill Creek (Wallace Rd) Stormwater Management System -- General Plan with Highlighted Areas of Disturbance" (Plans overprinted as "Preliminary"), Delta Engineering, November 2016, and Locations of Photos Submitted via NY-CRIS.



Section of USGS Castle Creek, NY, 7.5-min series quadrangle map (1:31,680), 1942 edition, topography by plane table survey, 1934.



Section of USGS Castle Creek, NY, 7.5-min series quadrangle map (1:24,000), 1968 edition, topography by photogrammetry using 1967 airphotos.

Topography, Hydrography, and Land Use in the Project Vicinity as Depicted in the USGS Castle Creek, NY, 7.5-minute Quadrangle Map, Editions of 1942 and 1968. In the period between 1934 and 1967, when area topography was mapped for the respective editions, the course of Smith Hill Creek was altered, residential subdivisions were developed, Chenango Creek was straightened, I-81 was built, and the lower reaches of Smith Hill Creek were relocated to the south. The 1968 map includes a somewhat unusual note explicitly stating that its depiction of terrain “superseded” that of earlier editions, confirming comprehensive re-mapping.



Detail of 1968 edition of the USGS *Castle Creek, NY*, 7.5-minute series quadrangle with the course of Smith Hill Creek as depicted in the 1942 edition (mapped in 1934) plotted on it. To plot the earlier course of the stream, digital copies of the two maps were superimposed. Pink shading indicates dense development.



Vertical Airphoto of Project Area, April 10, 1948. White arrows point out straight-run sections of Smith Hill Creek, indicating ca. 1940 channelization. Yellow arrows indicate location of present culvert in front of 50 and 52 Wallace Road, while cyan arrows show approximate location of Smith Hill Creek culvert beneath Norton Drive. Photo AR1FP0000060065 from <https://earthexplorer.usgs.gov/>.



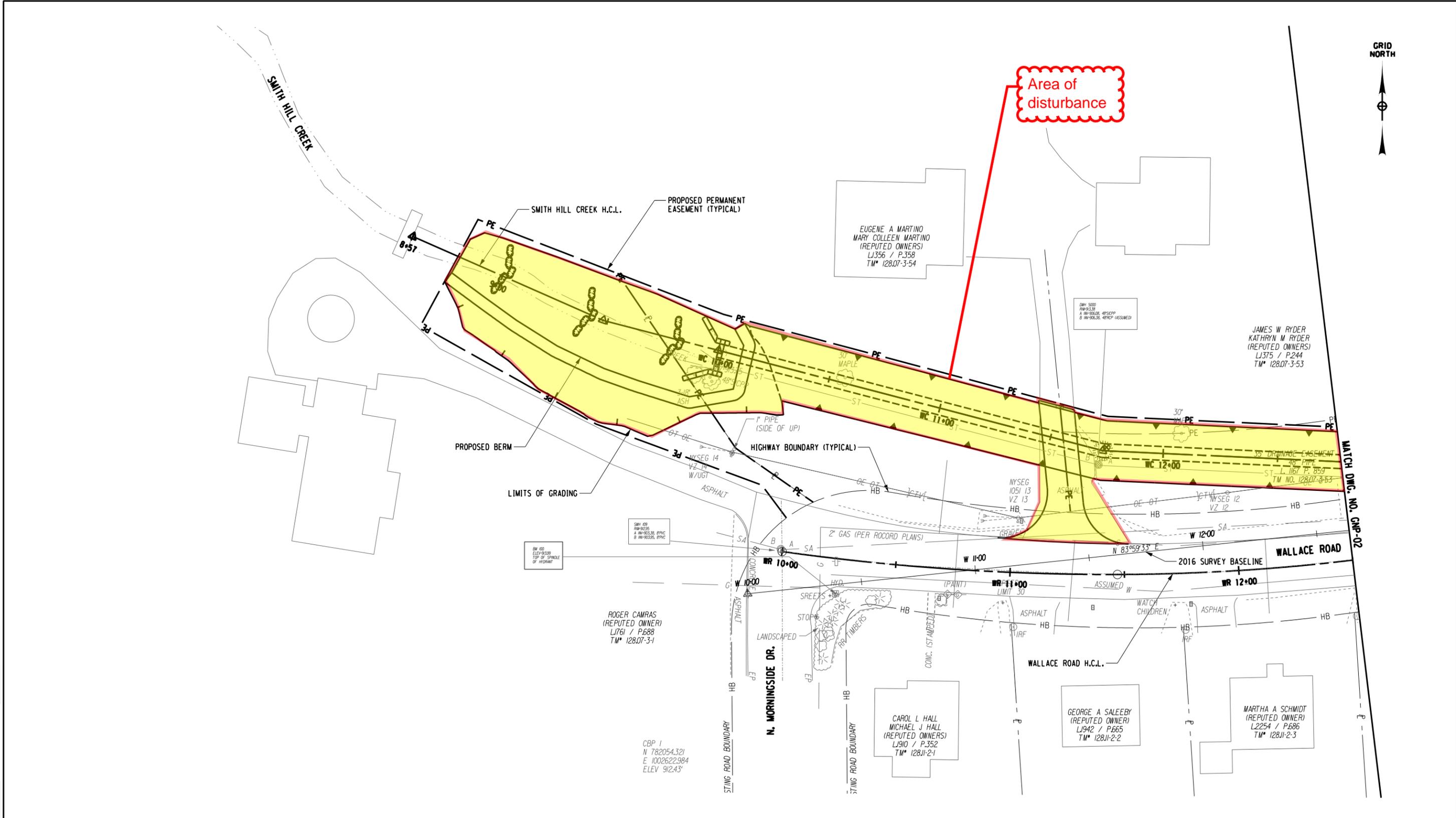
Vertical Airphoto of Project Area, April 16, 1967. White arrows point out straight-run sections of Smith Hill Creek, indicating ca. 1940 channelization. Yellow arrows indicate location of the culvert in front of 50 and 52 Wallace Road, while cyan arrows show approximate location of Smith Hill Creek culvert beneath Norton Drive. Photo 1VBTD00010104 from <https://earthexplorer.usgs.gov/>.



Vertical Airphoto of Project Area, March 2006. White arrows point out straight-run sections of Smith Hill Creek, indicating ca. 1940 channelization. Note that over time some sections of the channel have begun to develop slight curves, probably as a result of flood-stage stream processes and/or due to channel alterations by property owners. Yellow arrows indicate location of the culvert in front of 50 and 52 Wallace Road, while cyan arrows show approximate location of Smith Hill Creek culvert beneath Norton Drive. NY GIS image via Google Earth.

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 DESIGNED BY : JJM
 CHECKED BY : SAS
 DETAILED BY : SAS
 CHECKED BY : CJM



Area of disturbance



Preliminary



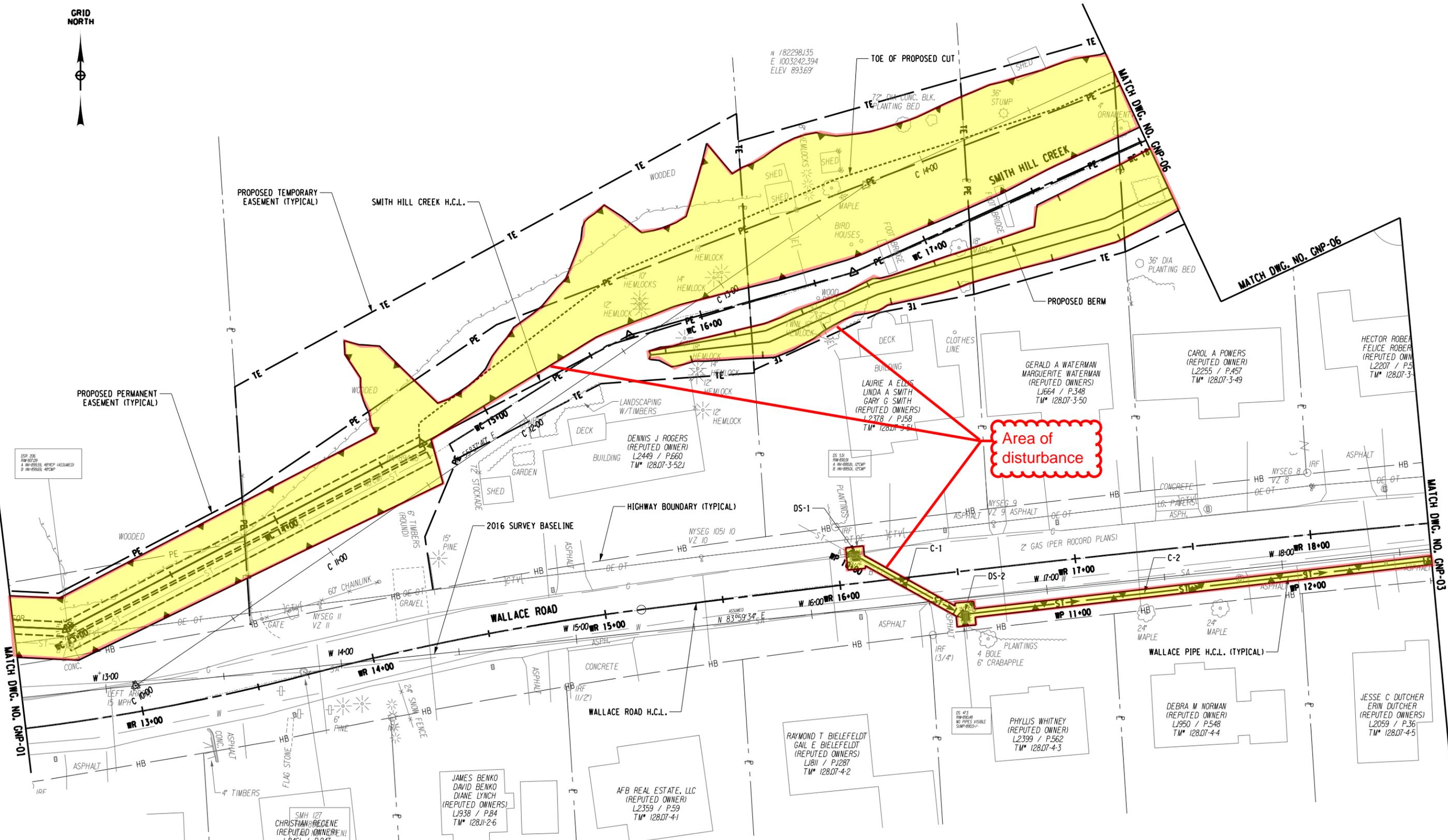
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

		SCALE AS SHOWN	DRAWING NO. GNP-01
		DATE NOVEMBER 2016	SHEET OF

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IN CHARGE OF : JJM DESIGNED BY : SAS CHECKED BY : CJM
 DETAILED BY : SAS CHECKED BY : CJM
 IF THIS VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



Area of disturbance

Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

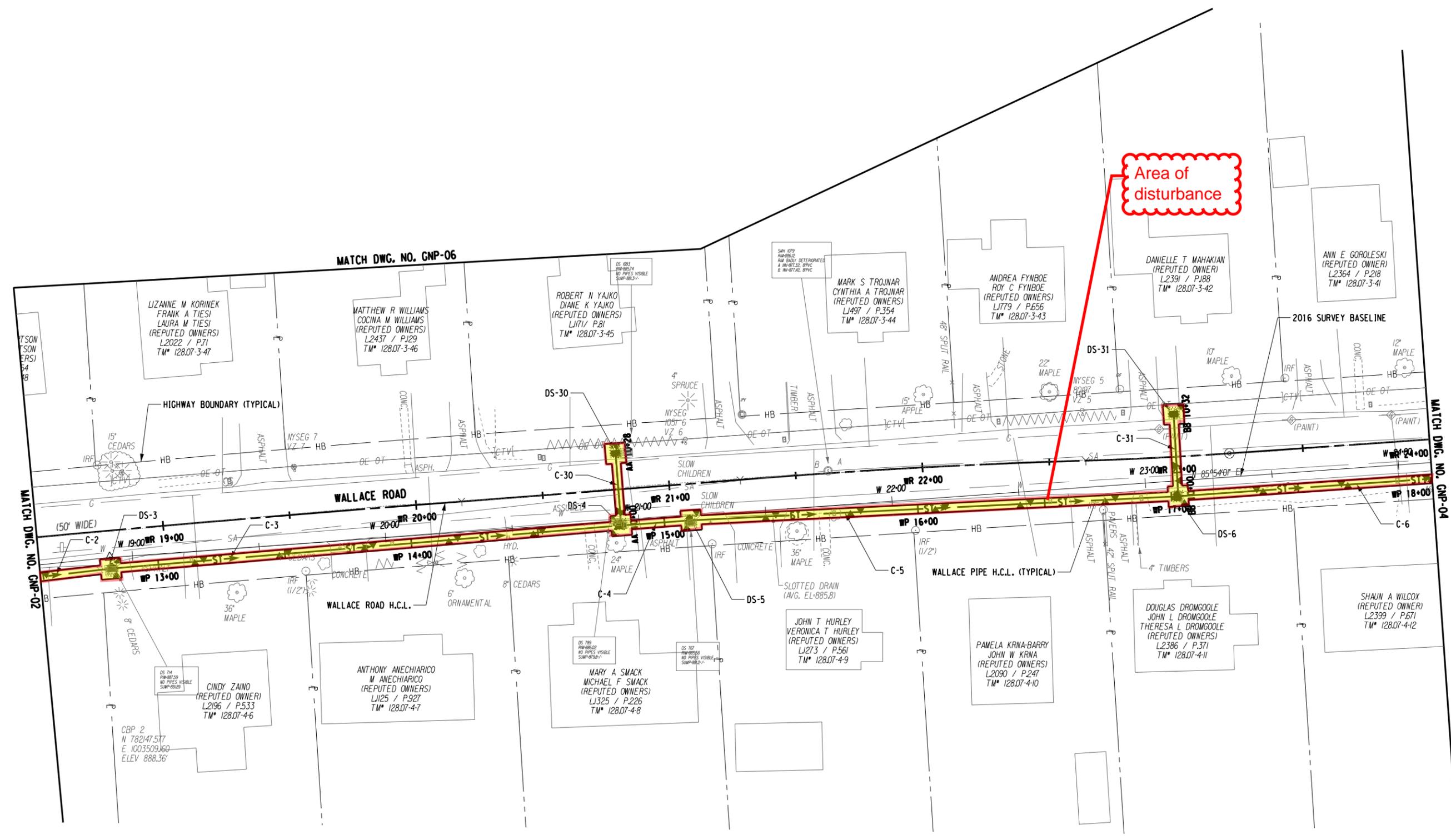
GENERAL PLAN
 WALLACE ROAD



 Woit Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-02
		DATE NOVEMBER 2016	SHEET OF

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 CHECKED BY: SAS
 IN CHARGE OF: JJM
 DETAILED BY: SAS
 CHECKED BY: CJM
 DESIGNED BY: JJM
 CHECKED BY: SAS
 IN CHARGE OF: JJM
 DETAILED BY: SAS
 CHECKED BY: CJM



Preliminary

SCALE BAR

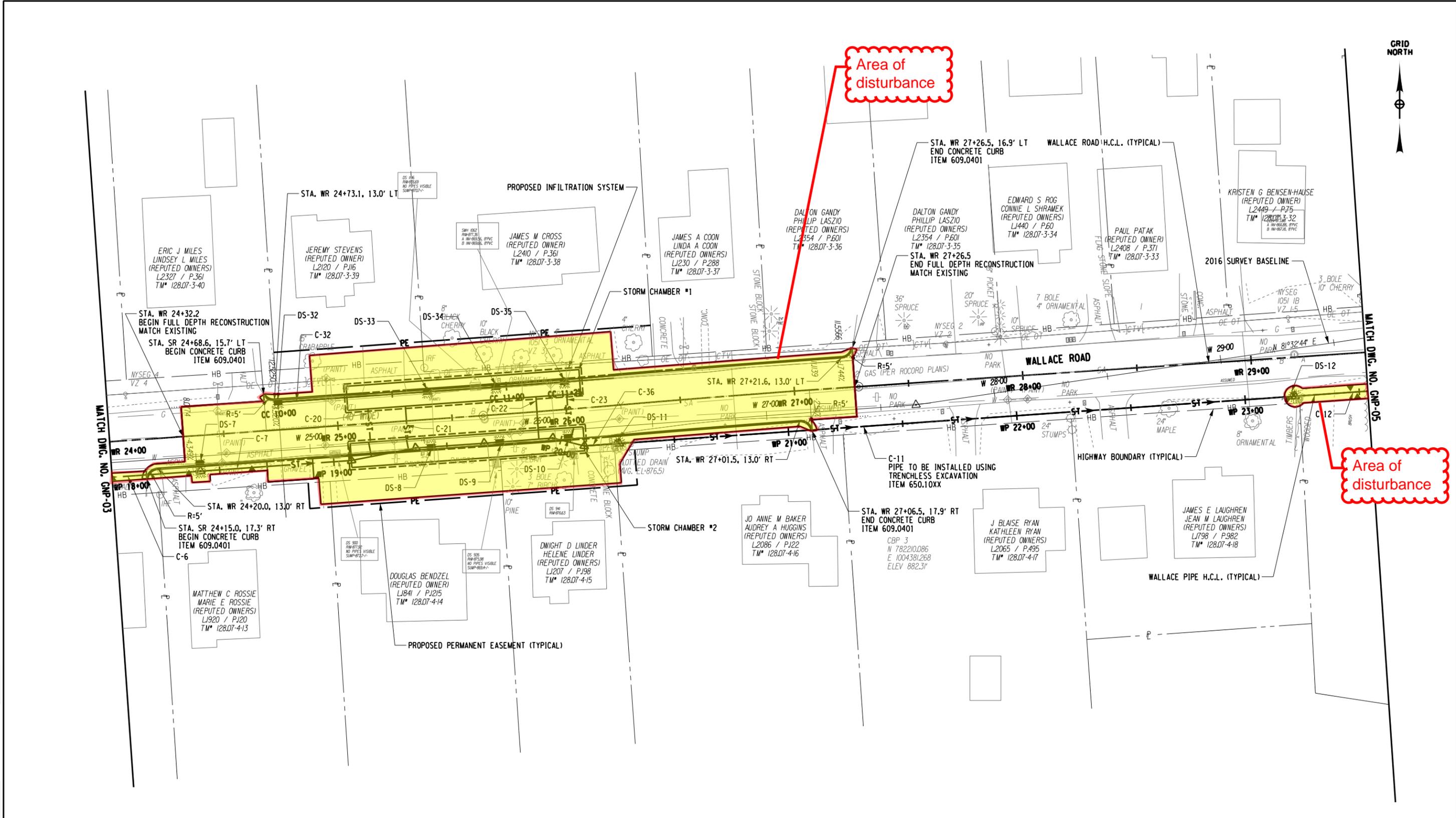
**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 WALLACE ROAD**

		SCALE AS SHOWN	DRAWING NO. GNP-03
	DATE NOVEMBER 2016	SHEET OF	

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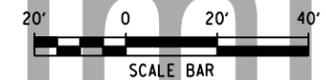
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 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

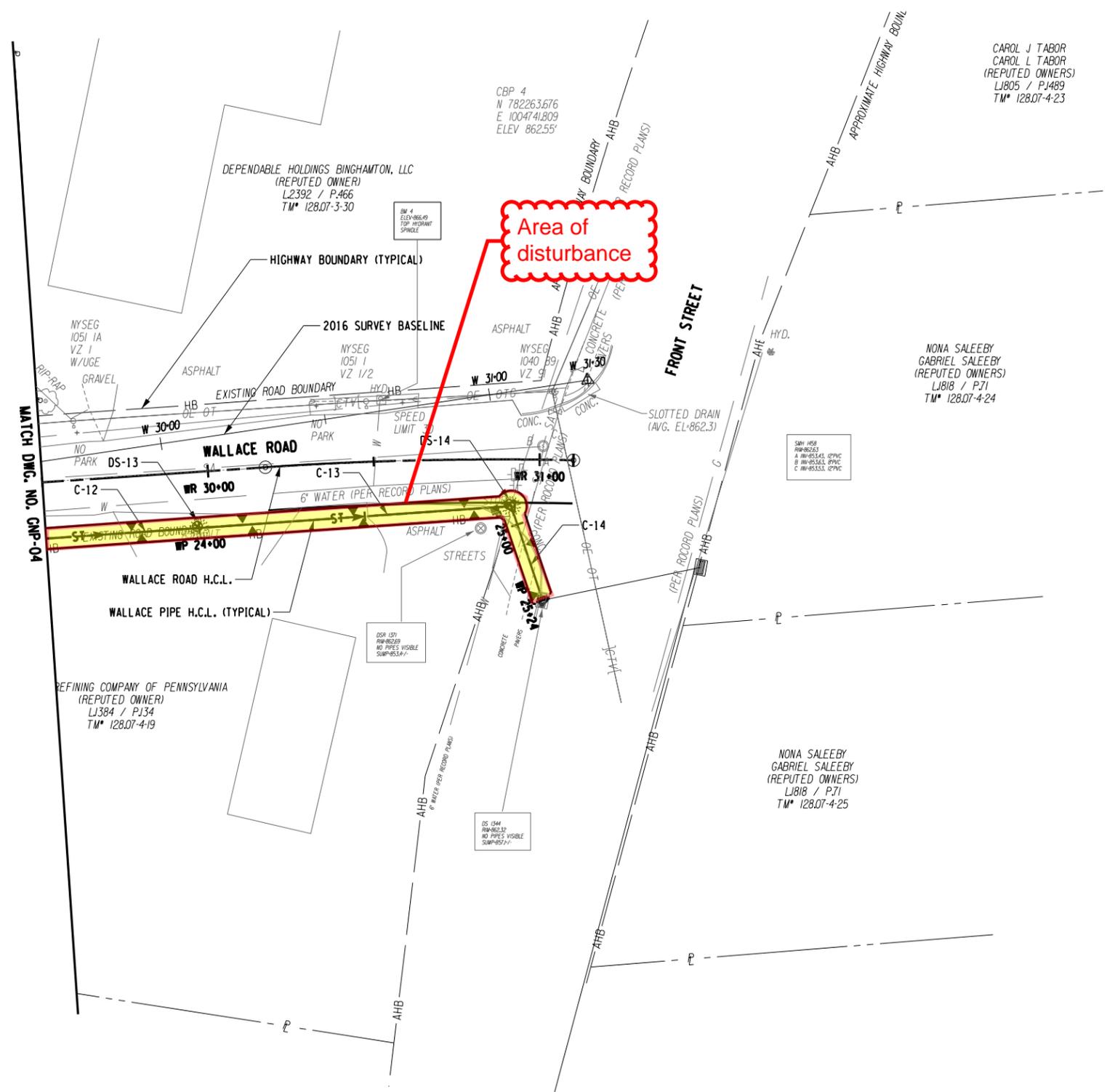
GENERAL PLAN
 WALLACE ROAD



 Woidt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-04
		DATE NOVEMBER 2016	SHEET OF

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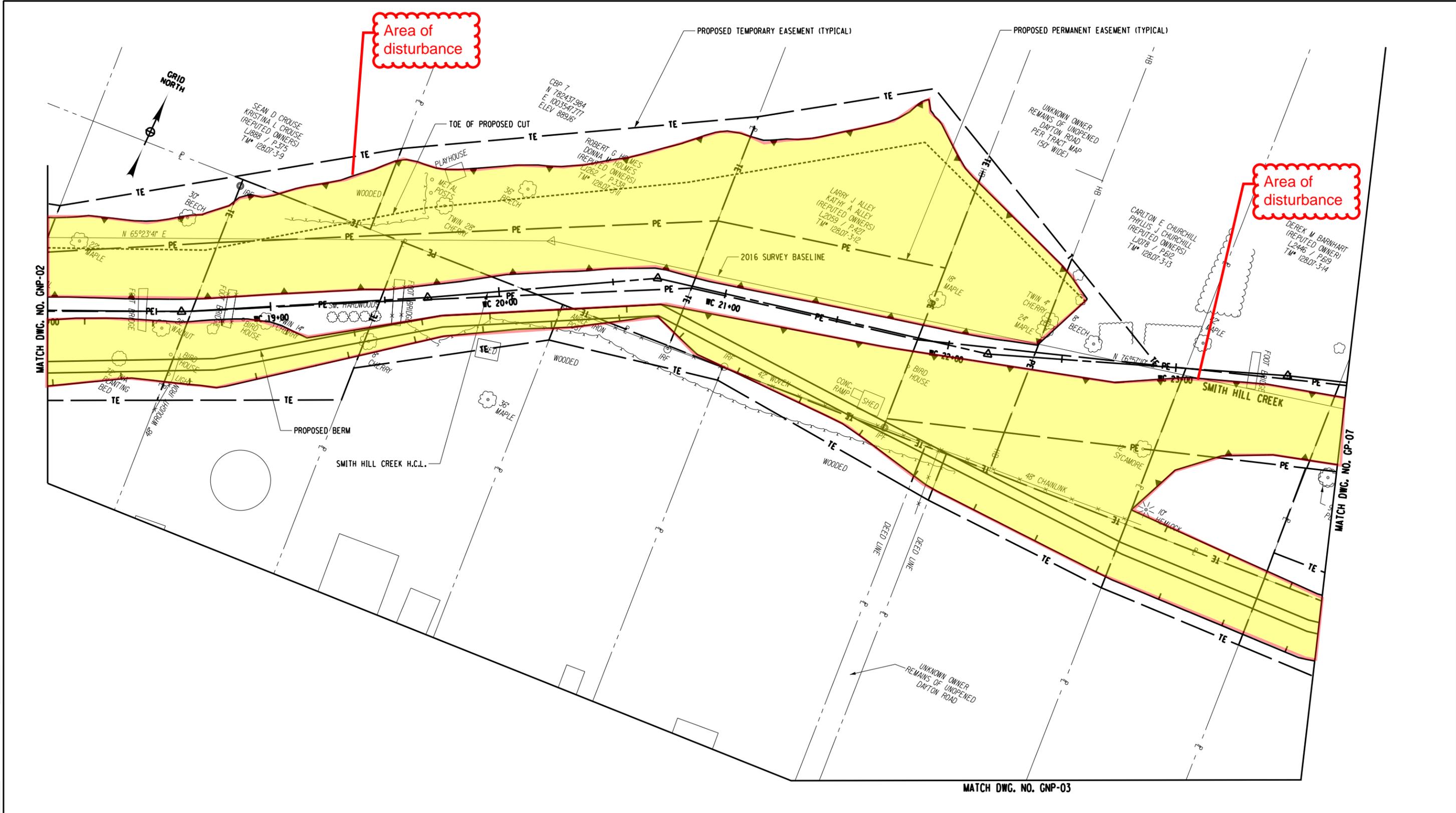


Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
 SCALE BAR	DRAWING NO. GNP-05 SHEET OF
 Woidt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS
SCALE AS SHOWN DATE NOVEMBER 2016	DRAWING NO. GNP-05 SHEET OF

IF THIS VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL BE FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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 DESIGNED BY : SAS
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 MATCH DWG. NO. GNP-02
 MATCH DWG. NO. GP-07
 MATCH DWG. NO. GNP-03



Preliminary

20' 0 20' 40'

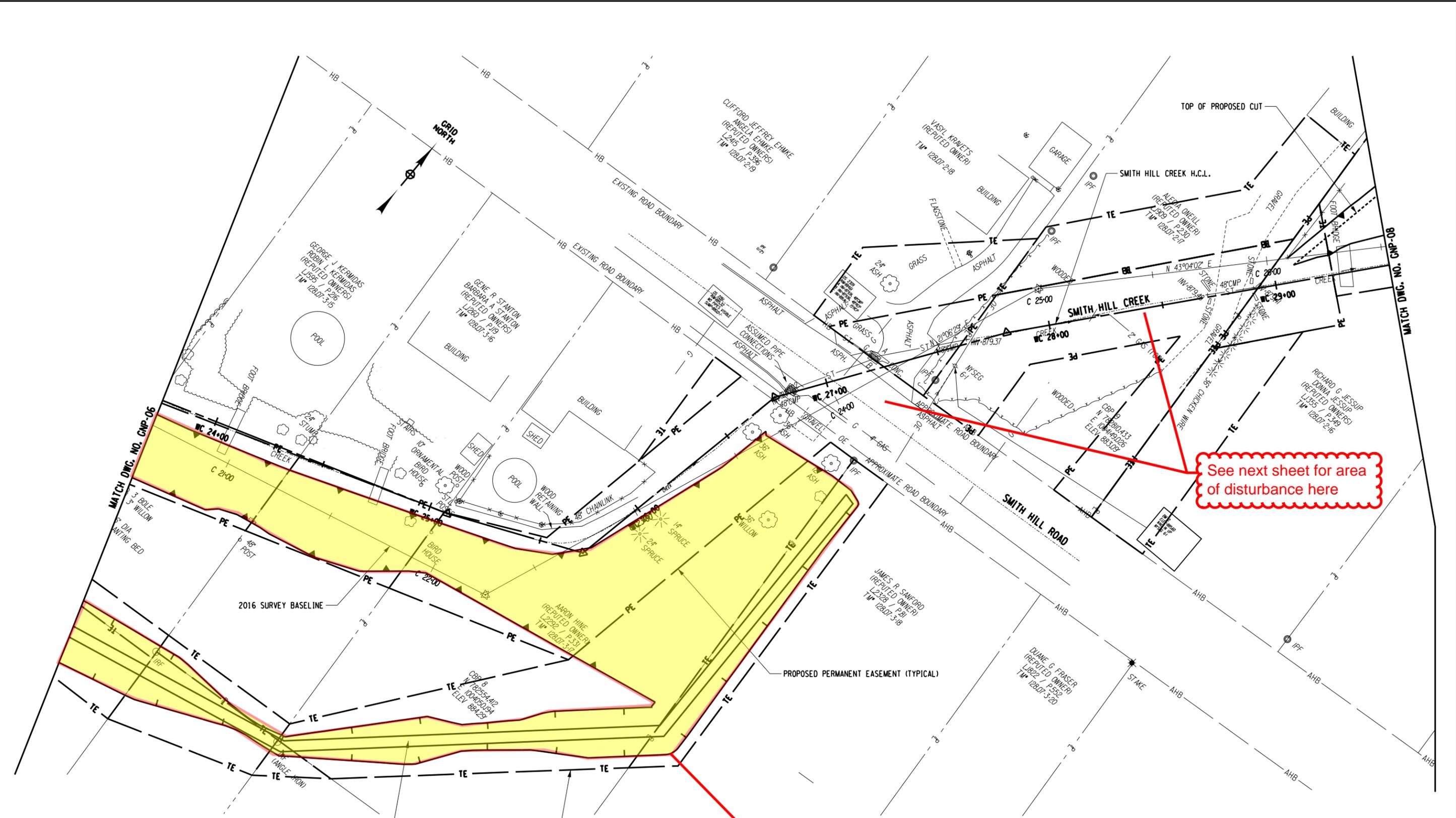
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
SMITH HILL CREEK**

	SCALE AS SHOWN	DRAWING NO. GNP-06
	DATE NOVEMBER 2016	SHEET OF

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 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



See next sheet for area of disturbance here

Area of disturbance



TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN SMITH HILL CREEK

		SCALE AS SHOWN	DRAWING NO. GNP-07
		DATE NOVEMBER 2016	SHEET OF

preliminary

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CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

Area of
 disturbance

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

END PAVEMENT
 RESURFACING
 STA. X+XX.XX

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

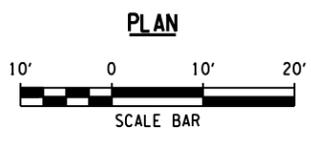
NOTES:

1. DENOTES HEAVY STONE FILL, ITEM 620.05.

2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



Preliminary

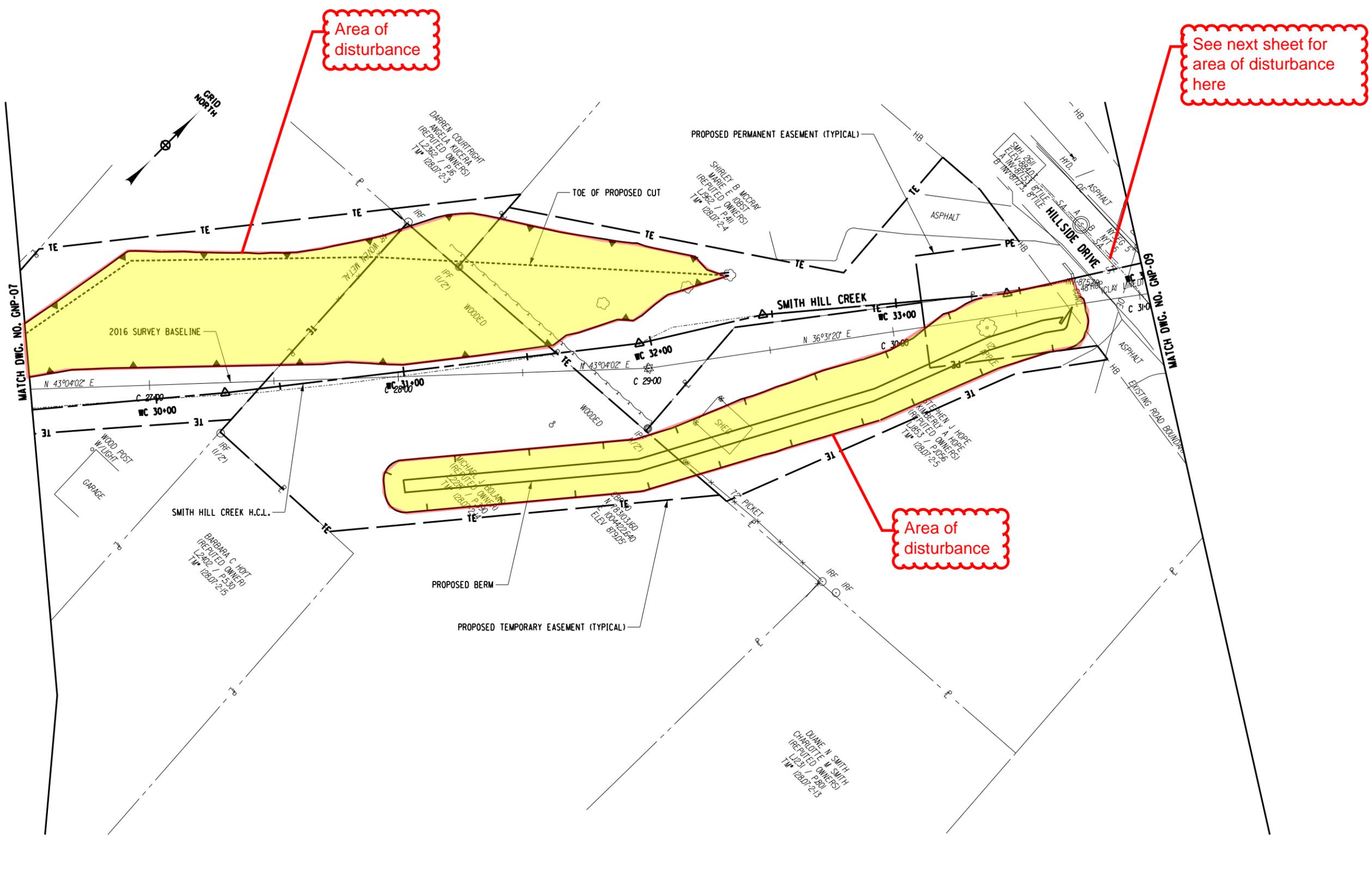
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN



SCALE
 AS SHOWN
 DATE
 NOVEMBER 2016

DRAWING NO.
 ST1-XX
 SHEET
 XX OF



Area of disturbance

See next sheet for area of disturbance here

Area of disturbance

Preliminary

20' 0 20' 40'

SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
SMITH HILL CREEK**

 <small>DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS</small>	SCALE AS SHOWN	DRAWING NO. GNP-08
	DATE NOVEMBER 2016	SHEET OF

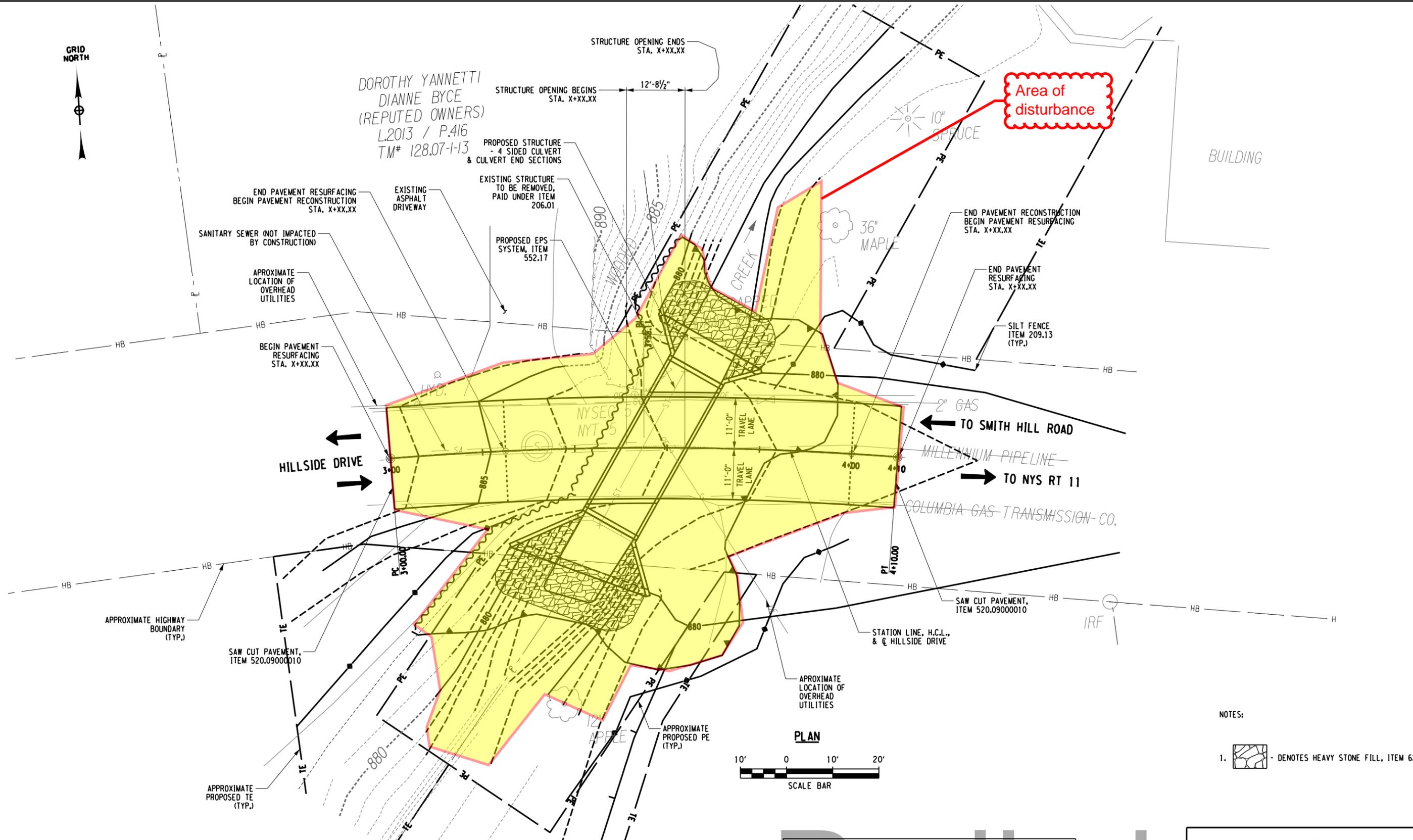
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 DETAILED BY : BNS
 CHECKED BY : COM

SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



Area of disturbance

BUILDING

HILLSIDE DRIVE

TO SMITH HILL ROAD

TO NYS RT 11

MILLENNIUM PIPELINE
 COLUMBIA GAS TRANSMISSION CO.

SAW CUT PAVEMENT,
 ITEM 520.09000010

STATION LINE, H.C.L.,
 & C HILLSIDE DRIVE

PLAN



NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.

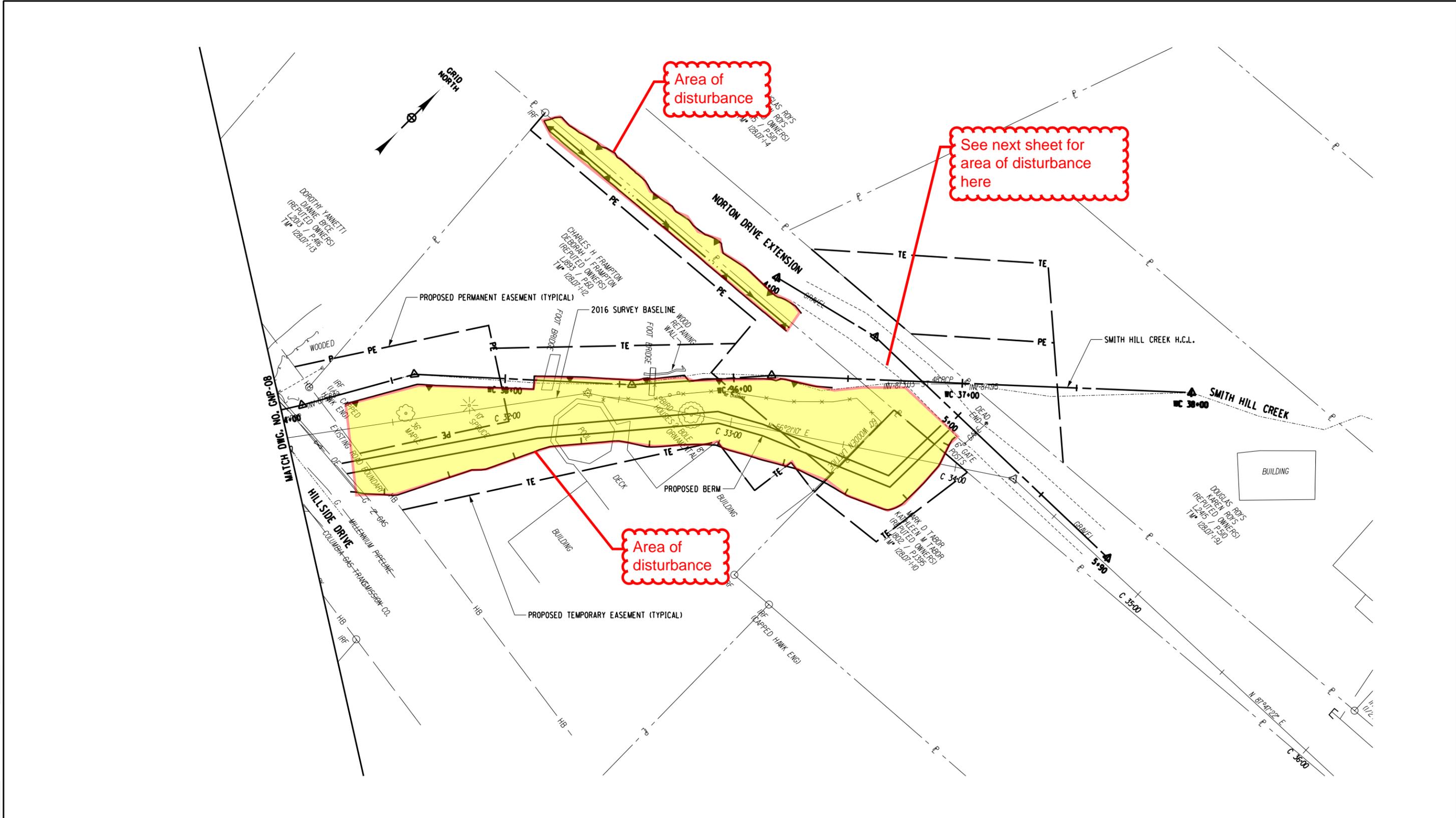
LOAD RATING		
LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

 W&D Engineering ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST3-XX
	DATE NOVEMBER 2016	SHEET XX OF



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM			
GENERAL PLAN SMITH HILL CREEK			
W&E Woodt Engineering	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN DATE NOVEMBER 2016	DRAWING NO. GNP-09 SHEET OF

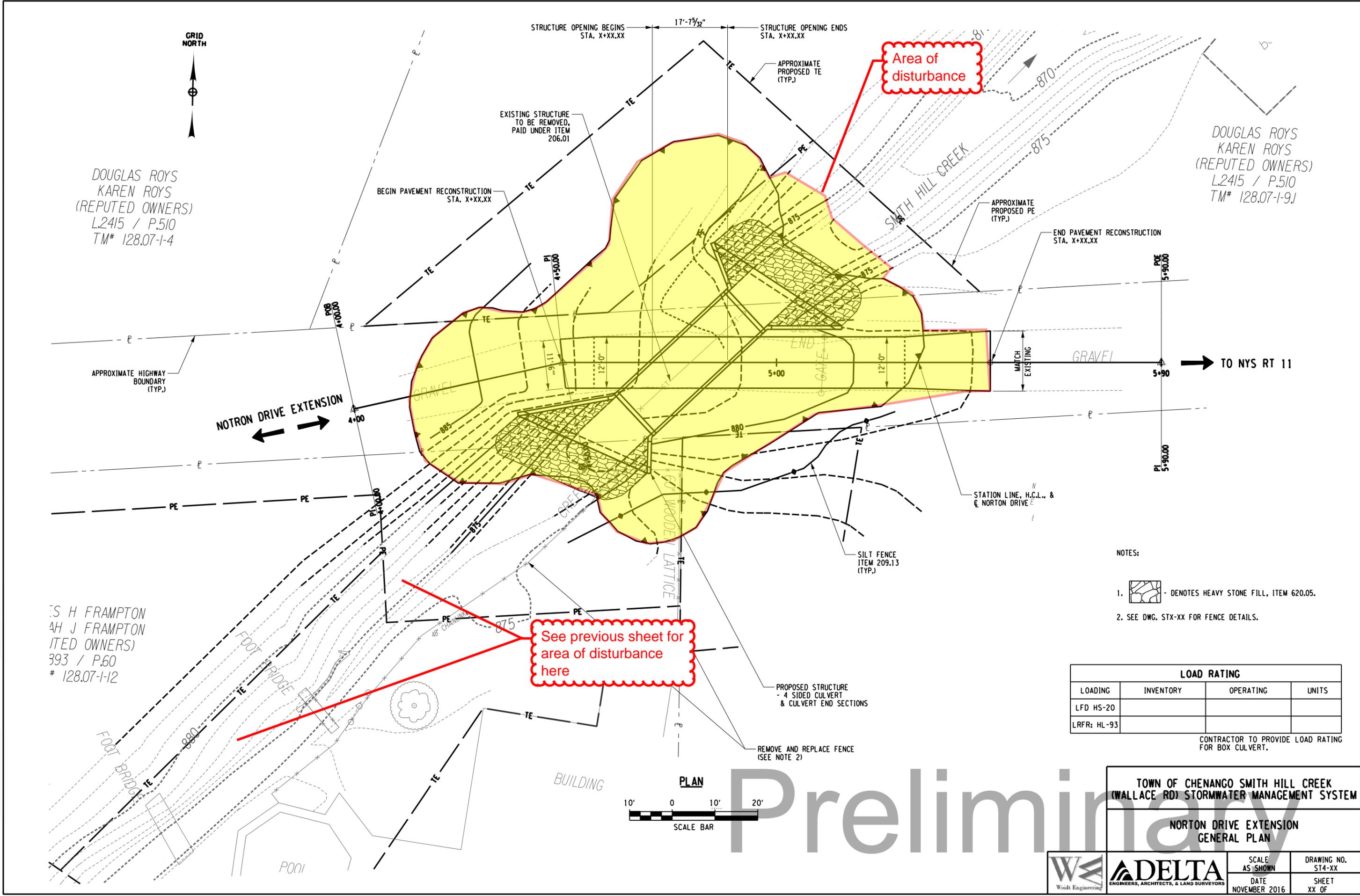
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IN CHARGE OF : **COM** DESIGNED BY : **BNS** CHECKED BY : **COM** DETAILED BY : **BNS** CHECKED BY : **COM**

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



Area of disturbance

See previous sheet for area of disturbance here

- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

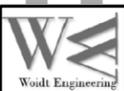
LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

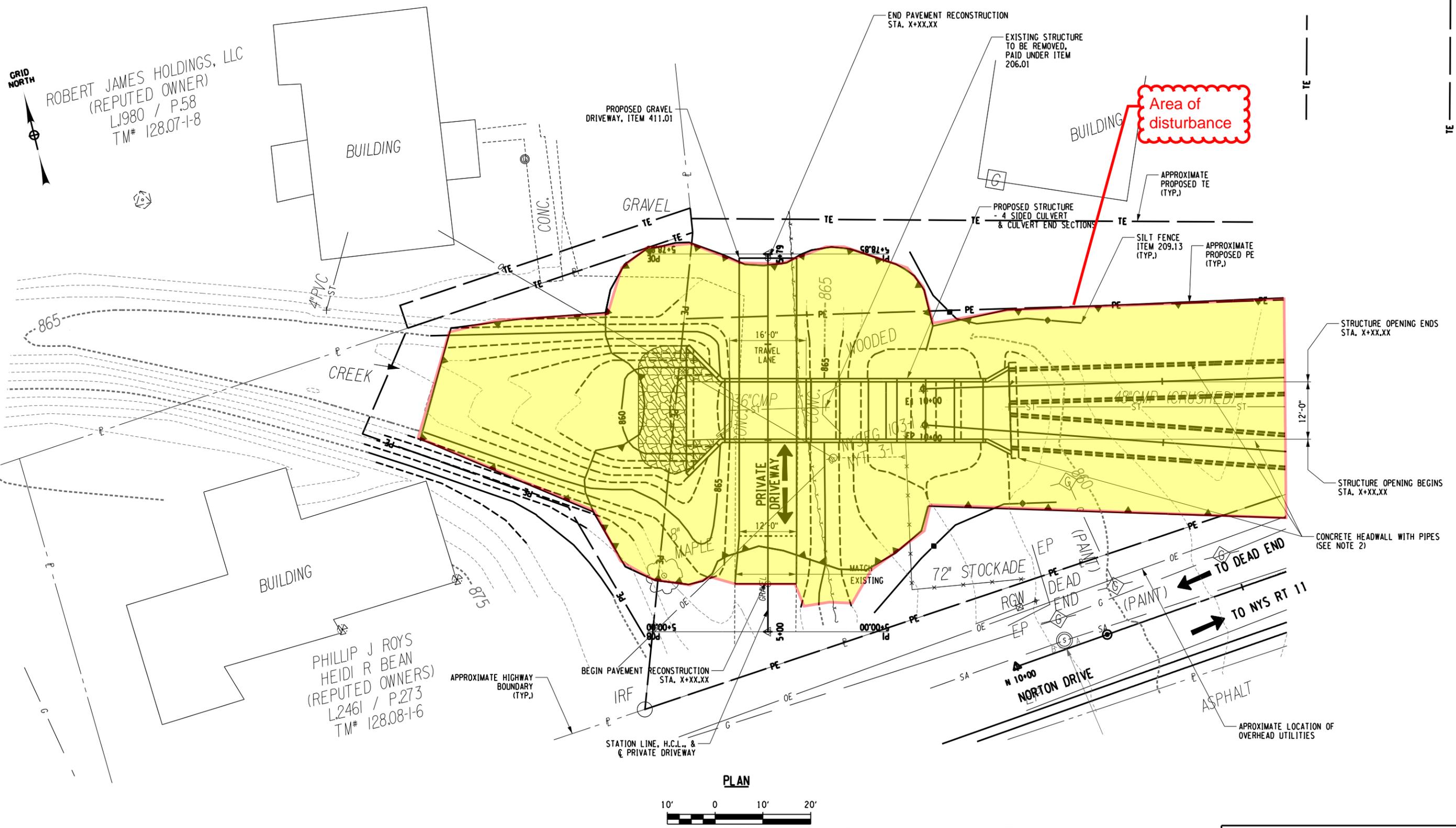


TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST4-XX
		DATE NOVEMBER 2016	SHEET XX OF

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 CHECKED BY : CUM

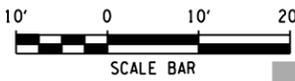


ROBERT JAMES HOLDINGS, LLC
 (REPUTED OWNER)
 L1980 / P.58
 TM# 128.07-1-8

PHILLIP J ROYS
 HEIDI R BEAN
 (REPUTED OWNERS)
 L.2461 / P.273
 TM# 128.08-1-6

Area of disturbance

PLAN



LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

NOTES:

- DENOTES HEAVY STONE FILL, ITEM 620.05.
- FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY
 GENERAL PLAN

Wold Engineering DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST15-XX
	DATE NOVEMBER 2016	SHEET XX OF

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 CHECKED BY : CJM

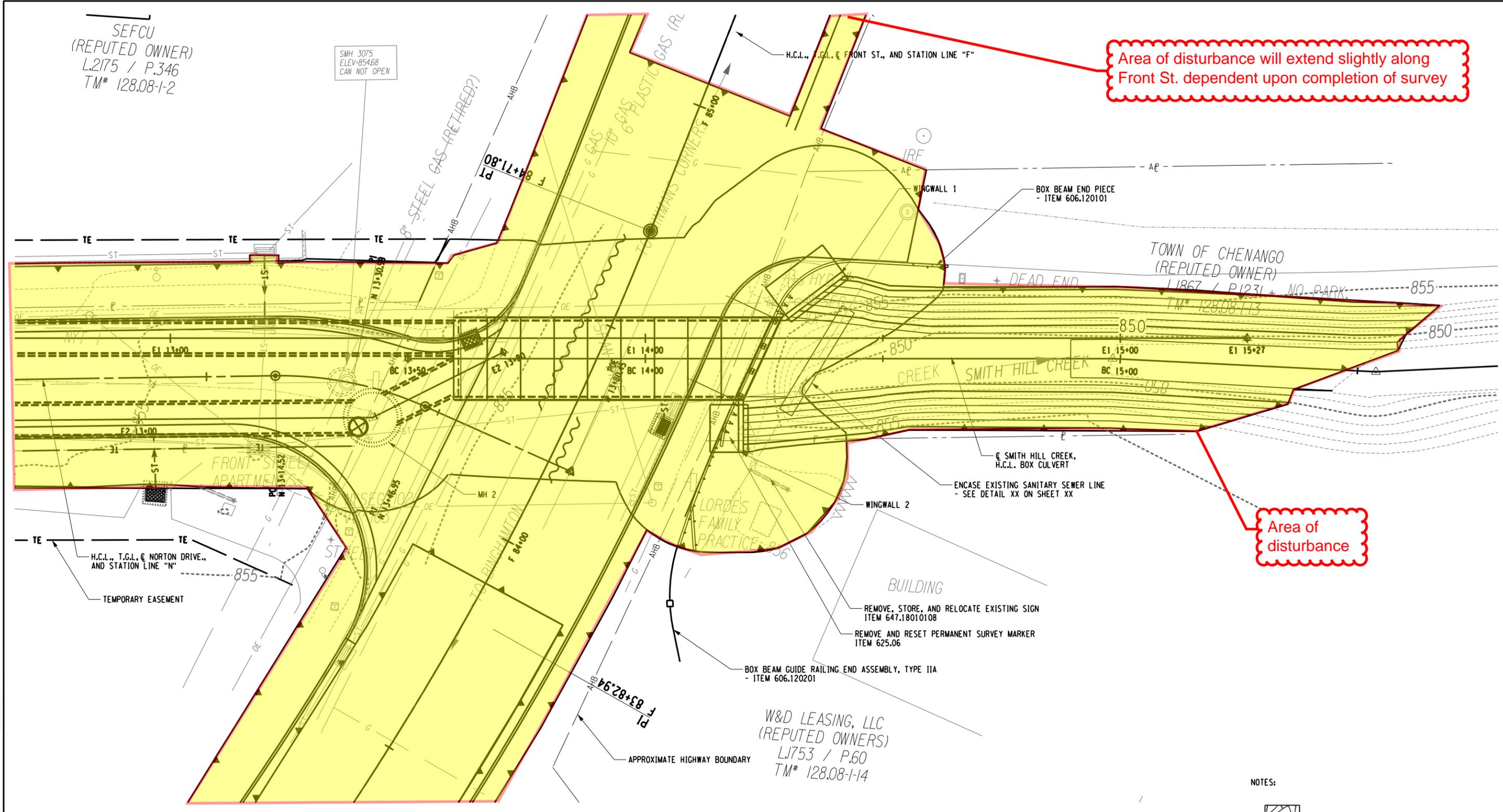
SEFCU
 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN

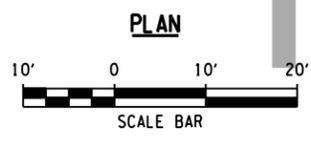
Area of disturbance will extend slightly along Front St. dependent upon completion of survey

Area of disturbance

Area of disturbance will extend slightly along Front St. dependent upon completion of survey

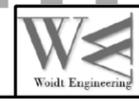


NOTES:
 1. DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
FRONT STREET GENERAL PLAN	
SCALE AS SHOWN	DRAWING NO.
DATE NOVEMBER 2016	SHEET OF



From: [Moss, Larry \(PARKS\)](#)
To: [Perazio, Phillip \(PARKS\)](#)
Subject: FW: Incomplete APE: New project 17PR02079: Smith Hill Creek (Wallace Road) Storm Water Management System - Revised Materials to be Submitted via CRIS
Date: Monday, April 03, 2017 11:15:06 AM

Phil,
FYI since you are on this project also.

Larry K Moss, RA

Technical Specialist

Division for Historic Preservation

New York State Parks, Recreation & Historic Preservation

Peebles Island State Park

PO Box 189, Waterford, NY 12188-0189

518-268-2187 Larry.Moss@parks.ny.gov

www.NYSParks.com/SHPO

From: Borstel, Christopher [mailto:Chris.Borstel@tetrattech.com]
Sent: Friday, March 31, 2017 6:22 AM
To: Moss, Larry (PARKS)
Cc: Fischl, Joseph; Kaiser, Genevieve; Bock, John
Subject: Incomplete APE: New project 17PR02079: Smith Hill Creek (Wallace Road) Storm Water Management System - Revised Materials to be Submitted via CRIS

Larry Moss,
Technical Services Specialist -- Weatherization, Disaster Recovery
New York State Historic Preservation Office

Mr. Moss:

I was advised yesterday by GOSR and the project engineer that the project footprint as submitted on March 29, 2017, for 17PR02079 (Smith Hill Creek Storm Water Management System) is incomplete. The northern end of the project extends another approximately 1,000 feet to the east to include two additional culverts at and in the vicinity of Front Street.

I anticipate submitting supplementary, corrected project materials via CRIS today. Meanwhile, I suggest you suspend any review of the materials already submitted pending the revised submittal.

Meanwhile, should you have any questions, or any advice about how to efficiently provide the correct materials via CRIS, please contact me by email or phone.

I apologize for this error and any confusion it may have caused.

Thanks.

--Chris Borstel

Christopher L. Borstel, Ph.D., RPA | Social Scientist III -- Cultural Resources

Direct: 973.630.8358 | Main: 973.630.8000 | Fax: 973.630.8304

chris.borstel@tetrattech.com

NOTE NEW ADDRESS:

Tetra Tech EC | Sciences

6 Century Drive, 3rd Floor | Parsippany, NJ 07954 | www.tetrattech.com

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MEMORANDUM

TO: Larry Moss, NY SHPO **DATE:** 4/19/2017

FROM: Chris Borstel, Cultural Resource Specialist, Tetra Tech *C.B.*

SUBJECT: Updated Project Information – GOSR-Smith Hill Creek (Wallace Road) Storm Water Management System, Town of Chenango, Broome County, NY (17PR02079)

As I advised on March 30, 2017, almost immediately after submitting information about the Smith Hill Creek storm water management project (**17PR02079**) on behalf of the Governor's Office of Storm Recovery (GOSR), I learned that through unfortunate miscommunication, I had provided an incomplete description of the project area. My apologies for this error and the delay in providing corrected information about the project.

I am today submitting the following materials to allow NY-SHPO to assess the potential effects of the proposed project:

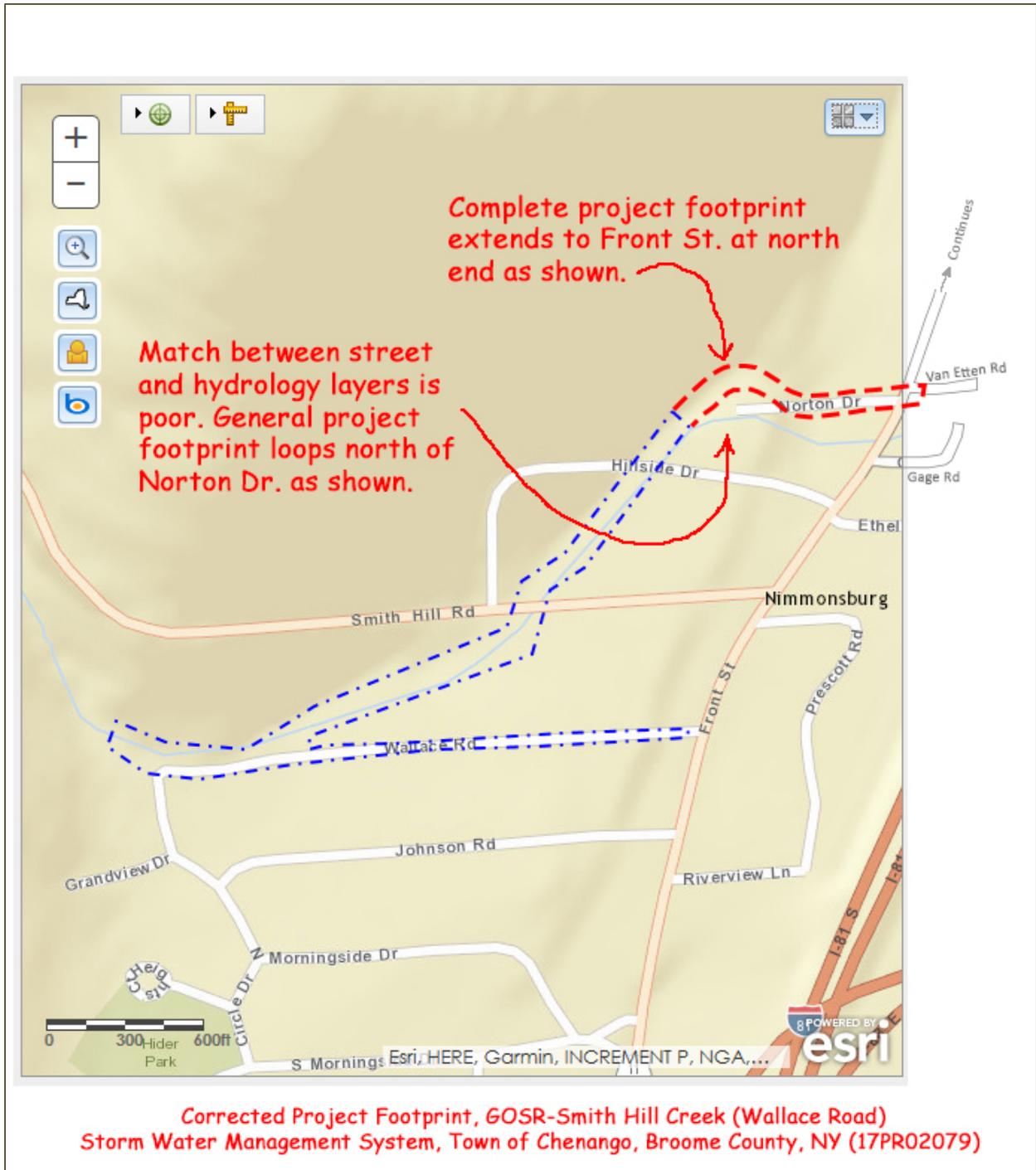
1. This memorandum;
2. A revised letter requesting comment on the project with corrected project information and a corrected map attachment, submitted on behalf of the Project Lead, Alicia Shultz of the NYSHCR;
3. Revised index map and map and air photo set depicting the historical development of the project area since the 1930s;
4. Complete set of preliminary project plans, produced by Delta Engineering and dated November 2016, with areas of ground disturbance highlighted by the project engineer; and
5. Five additional project area photos, depicting the northern end of the project in the vicinity of Norton Drive and Front Street, which was omitted from the original submittal.

Note that though the project description included in Step 2 (Project Overview) of the original CRIS submission will suffice as written, the mapping of the footprint ought to be updated if you or a colleague has the appropriate administrative rights to do so. See map on the following page.

Please disregard earlier versions of the request-for-comment letter, the index/historical map package, and the project plans, submitted on March 30, 2017. The materials submitted today supersede the previously submitted documents.

Should you have any questions about these corrected materials, please contact me at 973-630-8358 or by email at chris.borstel@tetrattech.com.

Thank you.





Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

May 1, 2017

Chris Borstel
TetraTech
6 Century Drive 3rd Floor
Parsippany, NJ 07954

Re: HTF/ GOSR/ HUD CDBG-DR
Smith Hill Creek (Wallace Road) Storm Water Management System Project
Town of Chenango, Broome County
17PR02079

Dear Mr. Borstel :

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the submitted materials in accordance with Title 54, Section 306108 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/ Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based on this review, it is the opinion of SHPO that there will be No Historic Properties Affected by the proposed undertaking.

If I can be of further assistance, contact me at (518) 268-2187 or Larry.moss@parks.ny.gov
Sincerely,

Larry K Moss, Historic Preservation Technical Specialist

CC: Genevieve Kaiser
Joseph Fischl
John Bock
Alicia Shultz, NYSHCR
Mary Barthelme, GOSR

Division for Historic Preservation

P.O. Box 189, Waterford, New York 12188-0189 • (518) 237-8643 • www.nysparks.com



April 20, 2017

Irving Powless, Chief
Onondaga Nation
RR#1, Box 319-B
Onondaga Nation via Nedrow, NY 13120

Re: Updated Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

Dear Chief Irving Powless:

Pursuant to the Disaster Relief Appropriations Act, 2013 (Public Law 113-2) and the Housing and Community Development Act (42 U.S.C. § 5301 et seq.), the Governor's Office of Storm Recovery (GOSR) is acting under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation as a recipient of Community Development Block Grant – Disaster Recovery ("CDBG-DR") funds from the United States Department of Housing and Urban Development ("HUD"). GOSR is the entity responsible for compliance with the HUD environmental review procedures set forth in 24 CFR Part 58. GOSR is acting on behalf of HUD in providing the enclosed project information and inviting this discussion with your Nation to respond with any concerns or comments.

GOSR processes environmental reviews for projects funded with HUD CDBG-DR on a case-by-case basis. GOSR proposes to fund an application for storm water management improvements to Wallace Road and Smith Hill Creek between Wallace Road and Front Street, in the Nimmonsburg section of the Town of Chenango, Broome County, New York. In accordance with Section 101(d)(6)(B) of the National Historic Preservation Act of 1966, as amended (54 U.S.C. 302706(b)), and its implementing regulations, 36 Code of Federal Regulations (CFR) Part 800, this letter serves as notification of the proposed action. This updated consultation notification is being sent to the Delaware Nation, Delaware Tribe of Indians, Oneida Indian Nation, Onondaga Nation, Stockbridge-Munsee Community Band of Mohicans, the Tuscarora Nation of New York, and the Seneca-Cayuga Nation.

Area of Potential Effects: The Project's total direct area of potential effects (direct APE) resulting from construction related ground disturbance is 4.8 acres, as reported in the Project's Full Environmental Assessment Form signed by Chenango Town Supervisor Harold Snopek on March 20, 2017, and transmitted on March 21, 2017, by Lori A. Shirley, Director, Bureau of Environmental Review and Assessment, Governor's Office of Storm Recovery, to interested state agencies including the State Historic Preservation Office (SHPO). The indirect APE is minimally larger, as most improvements will either be below restored grades, or will be visible only from the rear of adjoining houses, at distances of up to approximately 300 feet.

Proposed Project Description: GOSR proposes to fund an application for storm water management improvements to Wallace Road and Smith Hill Creek between Wallace Road and Front Street, in the Nimmonsburg section of the Town of Chenango, Broome County, New York. The Project is centered at approximately Lat. 42.144739°, Long. -75.9100011°. The existing Smith Hill Creek storm water system failed during Tropical Storm Lee in September 2011. During the storm, the system was overwhelmed by sheet flow draining off local hills and became clogged with debris. The Project will make improvements to the storm drains in Wallace Road and to the existing, artificially modified channel of Smith Hill Creek, including replacement of existing culverts beside Wallace Road, beneath Norton Drive-Front Street, and at stream crossings beneath Smith Hill Road, Hillside Drive, and Norton Drive Extension. These improvements will contribute to the Town of Chenango's plans under the New York Rising Community Reconstruction program to increase the capacity and effectiveness of storm water management facilities to handle significant storm events, helping to prevent or reduce risk and damage to persons and property. The Project involves approximately 5,316 linear feet of improvements along Wallace Road and Smith Hill Creek. Planned improvements include replacing and enlarging existing culverts, modifying the existing drainage cross-sections at various points along the creek, and installing check dams, catch basins, an infiltration system, storm drainage piping, and trash racks. Work covering a total length of approximately 1,796 feet is planned for two sections of Wallace Road. At the eastern end of Wallace Road, 608 feet of 24-inch overflow outlet pipe will be installed to carry excess storm water to the New York State Department of Transportation system in Front Street. In the central and western sections of Wallace Road, 892 feet of drainage pipe will be installed (including two laterals totaling 60 feet), which will lead to a subgrade soil infiltration system to disperse storm water. With a total length of 296 feet, the infiltration system will be installed in the street and in some front yards between 7 and 18 Wallace Road. The Smith Hill Creek component of the project extends for a total of approximately 3,860 feet along the channel, beginning west of the end of Wallace Road at North Morningside Drive and extending downstream and easterly to the outfall of a culvert beneath Front Street at Van Etten Road. Work along Smith Hill Creek involves:

- 2,153± linear feet of channel re-grading and bank improvements including construction of benches and berms along the existing, artificial creek channel;
- 468± feet of culvert (drainage pipe) replacement in front of 50 and 52 Wallace Road;
- 224± feet of culvert improvements and embankment rehabilitation at four locations, Smith Hill Road, Hillside Drive, Norton Drive, and the private driveway at 287 Smith Hill Road; and
- 675± feet of culvert and channel improvements at the eastern end of Norton Drive, extending to Front Street at Van Etten Road and including the private driveway for 10 Norton Drive.

No work is planned for approximately 340 feet of channel in a meander of the creek between Norton Drive Extension and 10 Norton Drive.

Potential Project Effects: The overall Project requires vegetation removal; removal of street surfaces and, in some places, curbs and walks; excavations, cutting, filling, and grading; installation of pipes and culverts; construction of soil berms; placement of rip-rap or similar armoring; and post-construction restoration of soil surfaces and the like. Excavations will occur in previously modified areas, including Wallace Road and the entire affected section of Smith Hill Creek. The maximum depth of excavation for the Project will be 10 feet, but will be shallower in most areas. The Project width varies. In Wallace Road, pipe trenches will be 5 to 6 feet wide, while the infiltration system will require an excavation 25 to 65 feet wide. Along Smith Hill Creek, the limits of excavation and

construction will typically range between approximately 30 and 80 feet wide, with a maximum width of around 120 feet.

Existing Conditions: The Project is situated in a residential neighborhood in the valley of Chenango Creek at the foot of the adjoining hills, which rise approximately 500 feet above the area. According to topographic maps and the *Surficial Geologic Map of New York: Finger Lakes Sheet*, (1:250,000, 1986), the Project is situated on a late Pleistocene glacial kame feature 30 to 40 feet above the historic level of Chenango Creek floodplain. The neighborhood consists of detached single-family houses on lots that typically range in size from 0.35 to 0.8 acres or larger. Tax records indicate the majority of the houses were built in the 1940s and 1950s. Surrounding the houses the lots are landscaped with lawns, shrubs, and trees. Behind and between the houses there are many minor structures, including detached garages, sheds and shops, and aboveground swimming pools. The northern and southern ends of the project area in the vicinity of Front Street are commercial in character. The hills above are wooded in second growth forests, which occupy former pasture and agricultural land, which ceased to be used for farming in the middle decades of the twentieth century.

Smith Hill Creek is a first-order stream that drains a broad ravine northwest of the Project area. Smith Hill Road climbs the northern side of this ravine to cross the hill on the west. Coming out of the ravine, the stream flows northeasterly for a half mile, skirting the base of the hill, and then curves to the southeast as it crosses the valley floor to its confluence with Chenango Creek. The mouth of Smith Hill Creek was originally east of the northern end of the Project area, but with channel straightening and bank extension of Chenango Creek in conjunction with construction of I-81 in the 1960s, the mouth was shifted south, so it is now approximately 0.25 mile east-southeast of Wallace Road.

Smith Hill Creek is usually a narrow stream a few feet across. In many points along the Project, adjoining homeowners have spanned the creek with informal bridges of one or two boards. Between Wallace Road and Norton Avenue/Norton Avenue Extension, the creek flows at the bottom of a smoothed drainage-way, whose regularity of form and absence of cut banks and natural terraces indicate that the present stream course is artificial. The stream course follows a series of straight-line reaches through the Wallace Road-Norton Avenue portion of the Project area. Unlike the stream course upstream of the Project Area and in the apparently natural meander segment north of Norton Avenue, the channel in the Wallace Road-Norton Avenue segment has few small-scale meanders and minimal bends, further indicating that it has been channelized. At the western and eastern ends of the Project area, Smith Hill Creek is artificially confined in culverts.

The alteration of the stream course appears to be closely tied to historical development of the neighborhood adjoining the Project area. Plane table topographic mapping undertaken by the U.S. Geological Survey (USGS) in 1934 for a new 7.5-minute series map (the *Castle Creek, NY* quadrangle) depicts the stream following a gently sinuous course from the mouth of the ravine northeast toward the bend leading to its confluence with Chenango Creek (*Castle Creek, NY*, 7.5-minute quadrangle 1934 provisional edition and 1942 edition). Mapping prior to the Second World War also shows Wallace Road as absent and except for a half dozen houses on Smith Hill Road near the intersection of Front Street, so the present residential neighborhood had not yet been developed. Airphotos dated 1942 and 1948 (Photos AR1AD0000010088 and AR1FP0000060065, respectively, from <https://earthexplorer.usgs.gov/>), however, depict Wallace Road as constructed over most of its present length and 20-plus houses standing along it. In addition, the sinuous stream course of the 1934 mapping had been altered to its present straightened and more angular course between the end of Wallace Road and Norton Drive. The topographic and drainage mapping of the 1934 7.5-minute *Castle Creek, NY* quadrangle map was not superseded until its 1968 edition. No longer relying on the older plane table mapping but produced by photogrammetry from airphotos flown in 1967, the 1968 edition of this quadrangle map depicts, for the first time, the present more

angular course of the stream. Comparison of the 1934/42 and 1968 maps indicates that the stream channel was shifted at different points east and west by distances of up to 30 to 65 feet. Given the small scale of the maps relative to the area under consideration, the measured distances are only approximate, but nonetheless, the maps, in conjunction with the earliest available air photos, indicate substantial landscape alterations after 1934 and before 1942.

Examination of air photos from 1950s through the 1990s (also available at <https://earthexplorer.usgs.gov/>) found that the section of the stream in front of 50 and 52 Wallace Road was completed in two stages: the portion in front of Number 52 was completed after 1948 and before 1958 (probably ca. 1957), while that in front of Number 50 was completed between 1958 and 1967 (probably ca. 1963). These photos also showed that the culvert that carries Norton Drive over the creek was constructed between 1967 and 1987 (probably ca. 1985). Finally, these sources indicated that the creek in the vicinity of Norton Drive and Front Street was already partially carried in a culvert by 1948, with additional culvert length added by ca. 1960.

Previous Documentation: A recent review of the New York Cultural Resource Information System (NY-CRIS) found that the Project area is situated in a SHPO archaeological sensitivity zone due to its proximity to recorded sites along Chenango Creek, but that the direct APE contains no inventoried archaeological sites. The review also indicated that there are no extant inventoried aboveground properties in or adjoining the Project's direct effects footprint. At the southeastern end of the Project, NY-CRIS shows two buildings as inventoried within approximately 50 meters of the intersection of Wallace Road and Front Street (at 1047 and 1055 Front Street—USNs 00703.000053 and 00703.000055, respectively), but an examination of current Broome County tax maps found that neither building is now extant, as the two properties currently contain buildings constructed in 2001 (at 1059 Front Street) and 2010 (at 1043 Front Street). At the northeastern end of the Project, NY-CRIS records five inventoried architectural properties at the intersection of Front Street with Norton Drive and with Van Etten Road. These are:

- 1129 Front Street (USN 00703.000075) – a pair of two-story apartment buildings built in 1980.*
- 1130 Front Street (USN 00703.000076) – medical arts building built in 1990.*
- 1135 Front Street (USN 00703.000077) – demolished; lot incorporated into 1137 Front St., which see.
- 1136 Front Street (USN 00703.000078) – commercial building containing a hair salon and audio store, built 1960.*
- 1137 Front Street (USN 00703.000079) – demolished. Lot as currently configured—i.e., Parcel 128.08-1-2—incorporates land formerly occupied by both 1135 and 1137 Front St. The current building, occupied by SEFCU credit union, was constructed after November 2006 and before October 2008, per Google Earth aerial imagery.

**Build date per Broome Co. tax records.*

NY-CRIS records the NRHP eligibility status of 1129, 1130, and 1135 Front Street as Undetermined, but assigns an Eligible status to 1136 and 1137 Front Street. As noted, earlier buildings at 1135 and 1137 have been razed, and a new building, constructed 2006-2008, stands in their place, so the earlier documentation for the two earlier buildings is not pertinent to the present study. The assignment of an NRHP-eligible status to the commercial building at 1136 Front Street seems inappropriate, given its comparatively recent date of construction, as reported by tax records, and the lack of distinguishing architectural characteristics. It is not, however, necessary to revisit the potential eligibility of any of these buildings, however, as they all are situated outside the construction footprint (direct effects APE) of the proposed Project.

Assessment of Effects: Although situated in a SHPO archaeological sensitivity zone, the Project is assessed as having low potential to affect archaeological resources. The topographic setting of the Wallace Road section, on late glacial kame deposits above the historical floodplain of Chenango Creek, indicates that any archaeological sites that may once have been present would have been relatively shallow and would likely have been destroyed or severely compromised by the construction of the street and subdivision development beginning around 1940. The direct APE in Wallace Road is therefore situated in a previously disturbed area. The Smith Hill Creek section of the Project consists of drainage improvements and culvert construction in areas that were apparently extensively modified by the channelization of the stream in ca. 1940, with additional alteration by stream confinement in culverts, primarily in the 1950s and 1960s.

Previous disturbances likely included ditching, grading, and excavation. In light of this history, archaeological investigation does not appear warranted, as it is unlikely that intact archaeological deposits are present. The Project also is not likely to result in affect aboveground resources. The residential neighborhood does not appear to possess qualities that might indicate a historic district representing an architecturally or historically significant mid-twentieth century housing development. Moreover, the Project effects will be limited to the ground surface, which will be restored after construction. In brief, the proposed Project is judged as likely to result in **No Historic Properties Affected**, pursuant to Section 106 of the National Historic Preservation Act.

GOSR is completing an environmental review for this Project in accordance with HUD NEPA regulations. If the Area of Potential Effects encompasses historic properties of religious or cultural significance to your Nation, please respond within 30 days or sooner. Additionally, please indicate if there are other sources of information or other parties, Nations, Tribes, or members of the public you believe should be included in the consultation process. Please respond by email or in writing to the address listed below.

Address for mail correspondence:

Alicia Shultz
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery
New York State Homes & Community Renewal
38-40 State St., 408N, Hampton Plaza
Albany, NY 12207

I am available to answer any questions that you may have regarding this action. If you have any questions, please feel free to contact me at (518) 474-0647 or via email at Alicia.Shultz@nyshcr.org.

Sincerely,

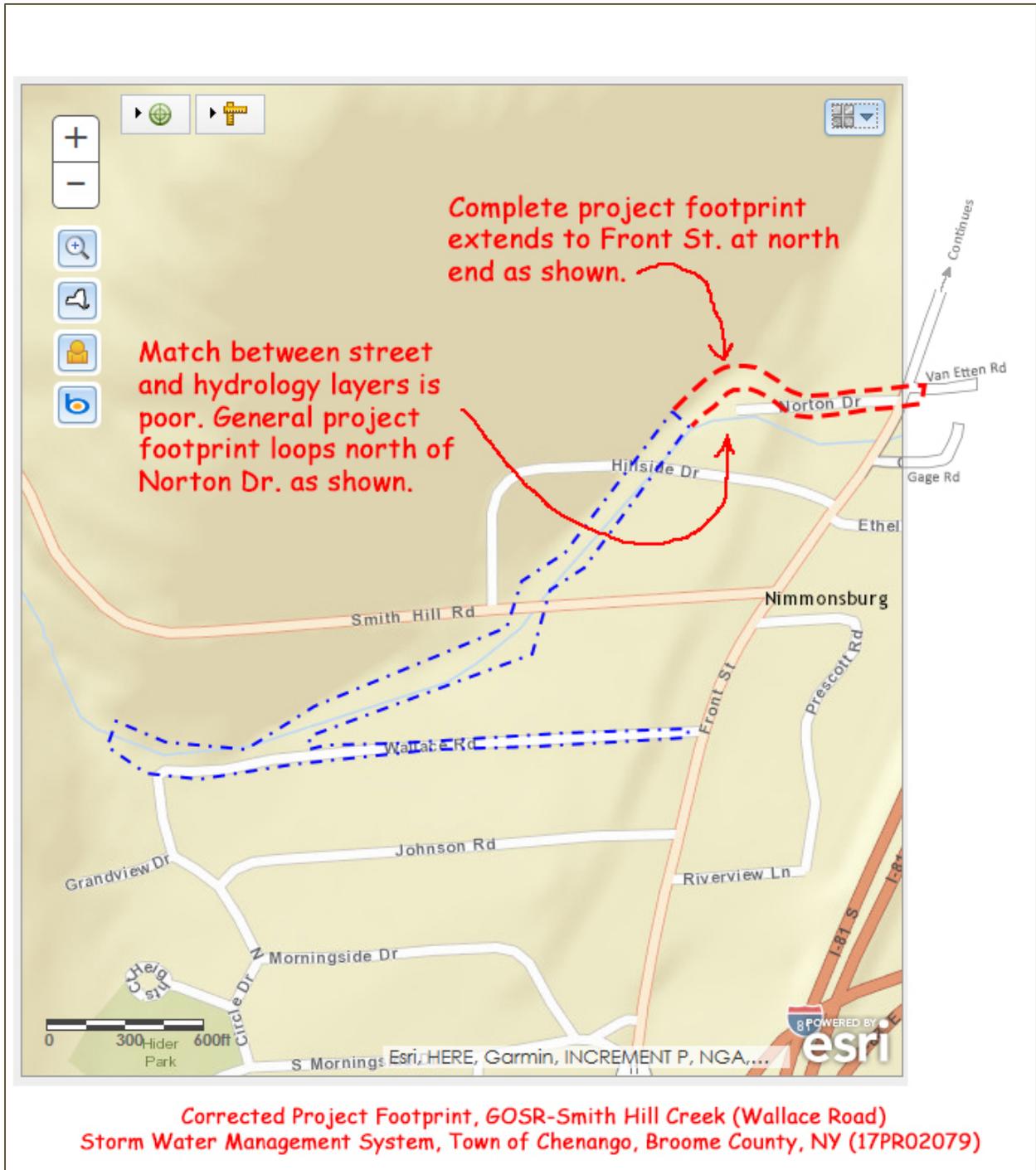


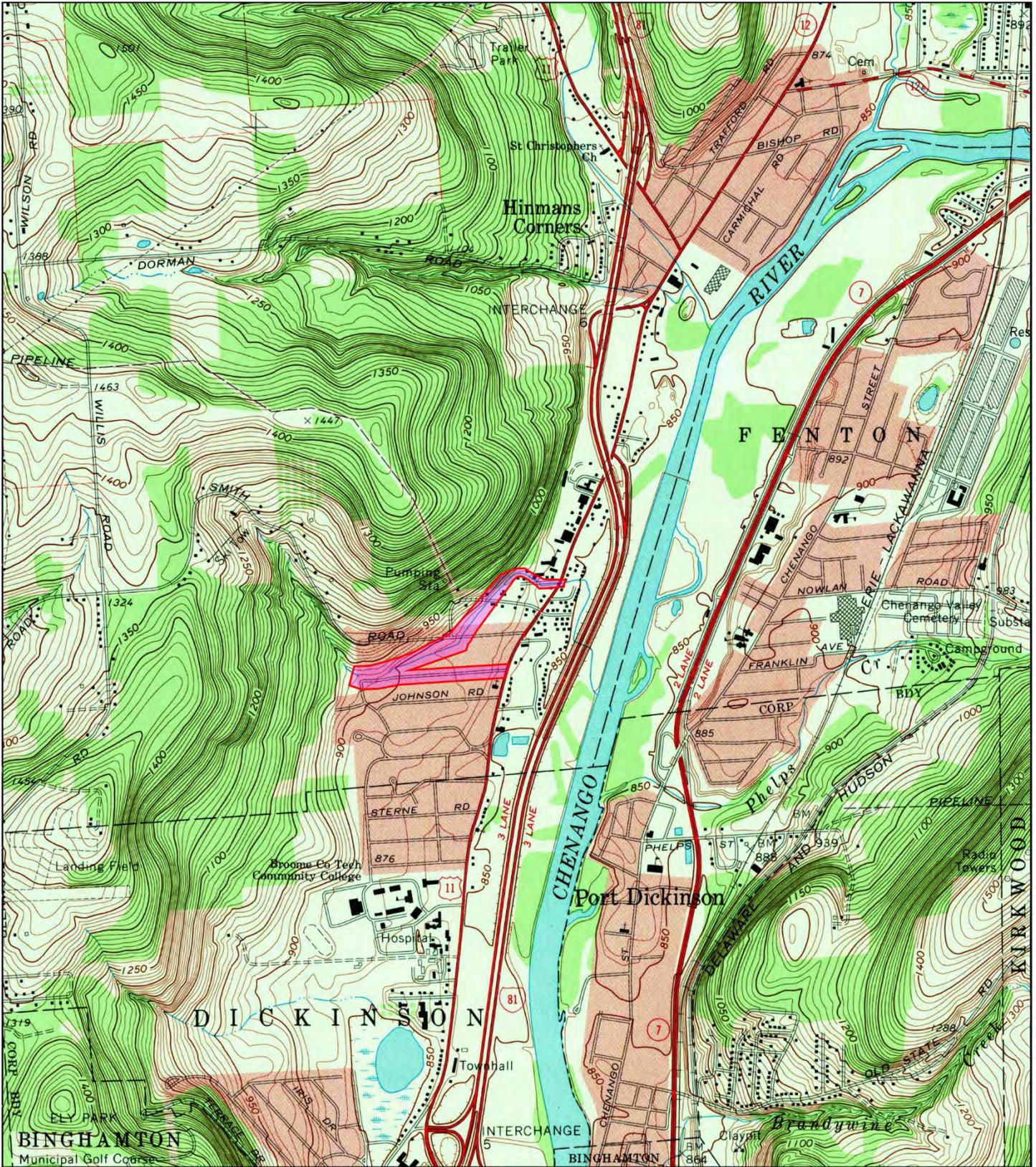
Alicia Shultz
Senior Environmental Scientist
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

Enclosures:

Updated Project Area Maps

Updated Project Plans





1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Legend

 Project Area

Project Area

Smith Hill Creek Stormwater Management System
 Smith Hill Creek, Wallace Avenue
 Town of Chenango
 Broome County, New York

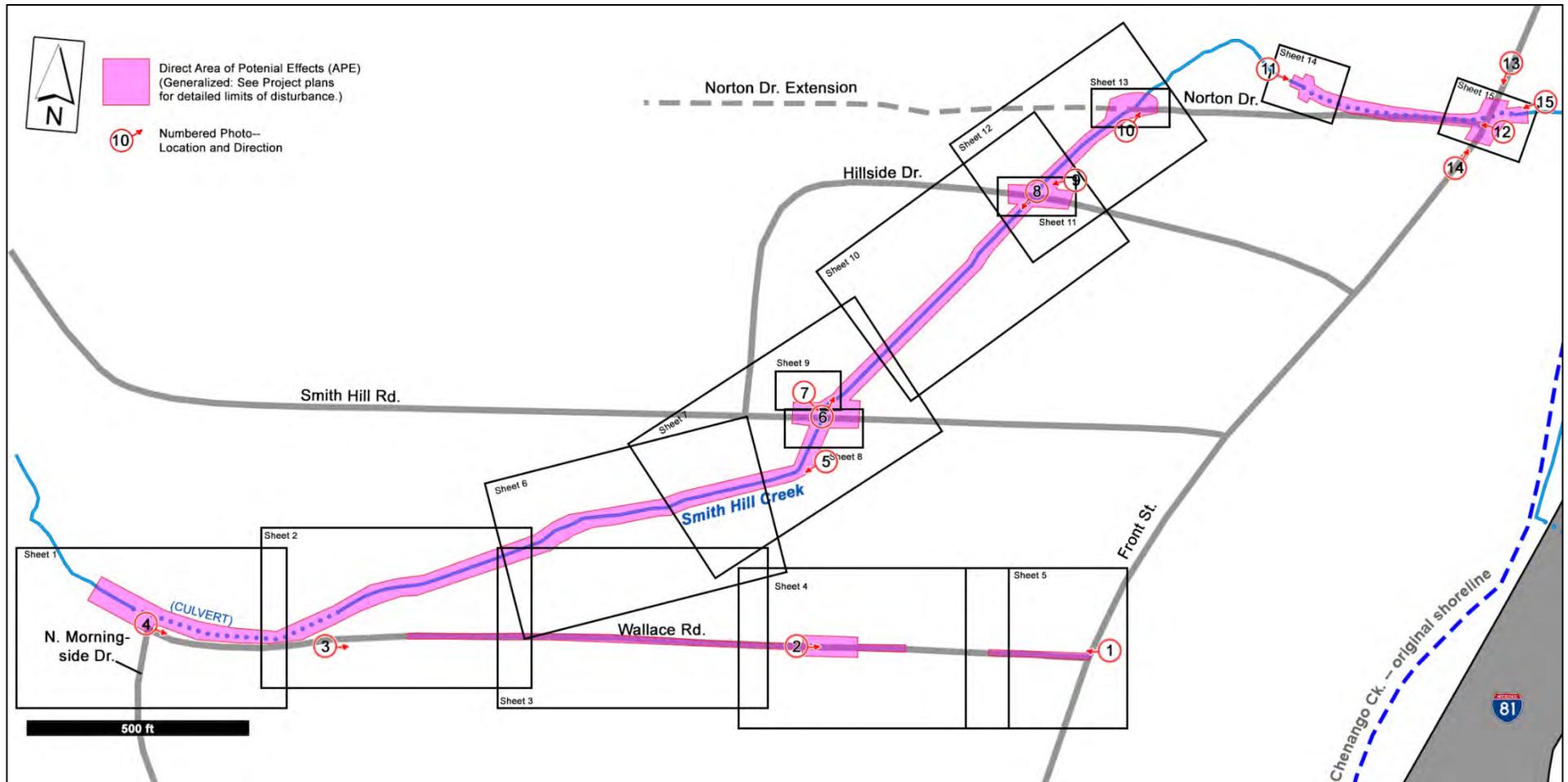


Tetra Tech, Inc

Base map: USGS Castle Creek, NY, 7.5-minute quadrangle, 1968 edition, photoinspected 1976.

Section 106 Compliance for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

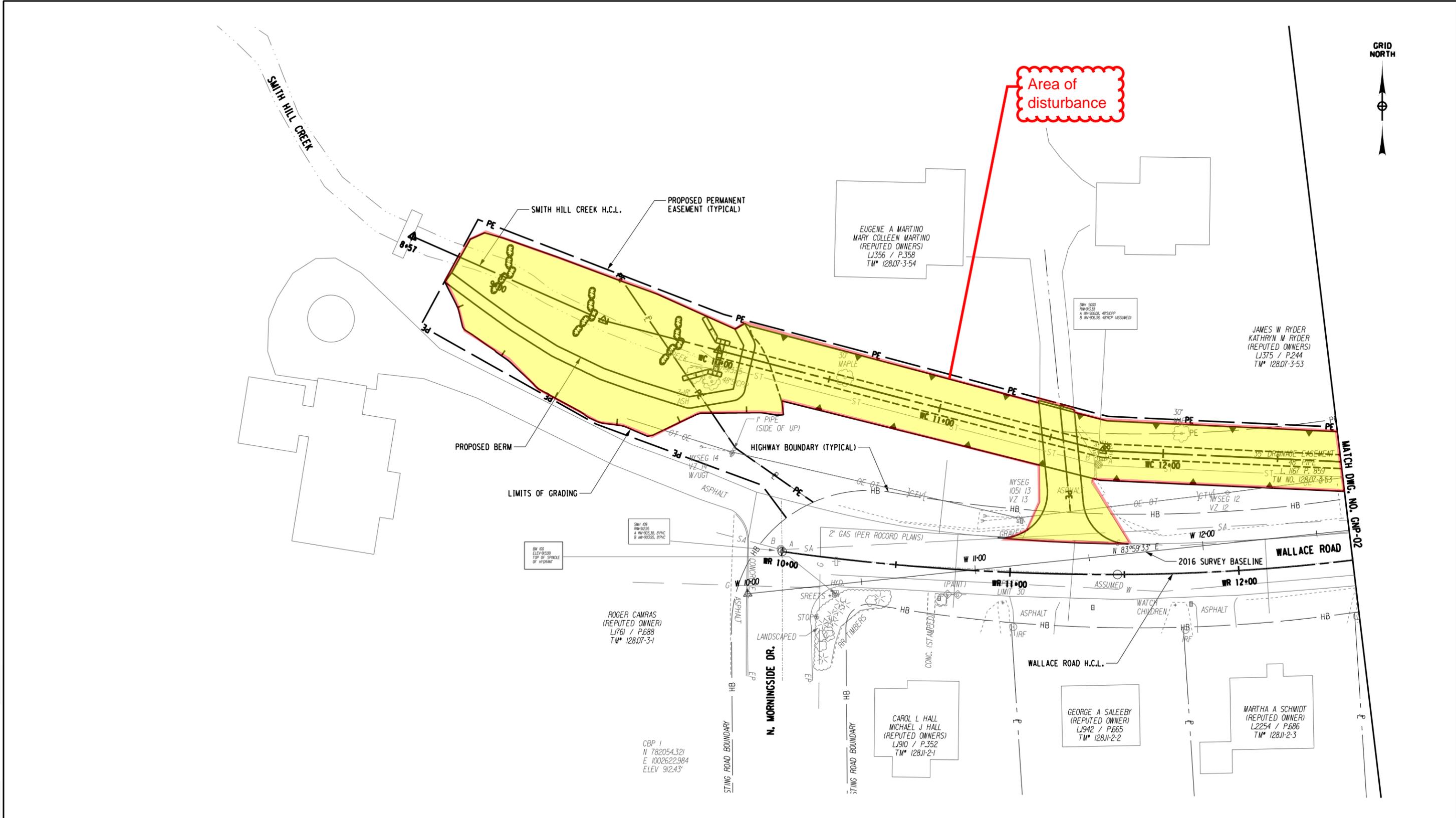
Corrected NY-CRIS submittal, 4/19/2017



Sketch Map of Project Area, with Generalized Direct Area of Potential Effects, Index of "Smith Hill Creek (Wallace Rd) Stormwater Management System -- General Plan with Highlighted Areas of Disturbance" (Plans overprinted as "Preliminary"), Delta Engineering, November 2016, and Locations of Photos Submitted via NY-CRIS.

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Area of disturbance



Preliminary



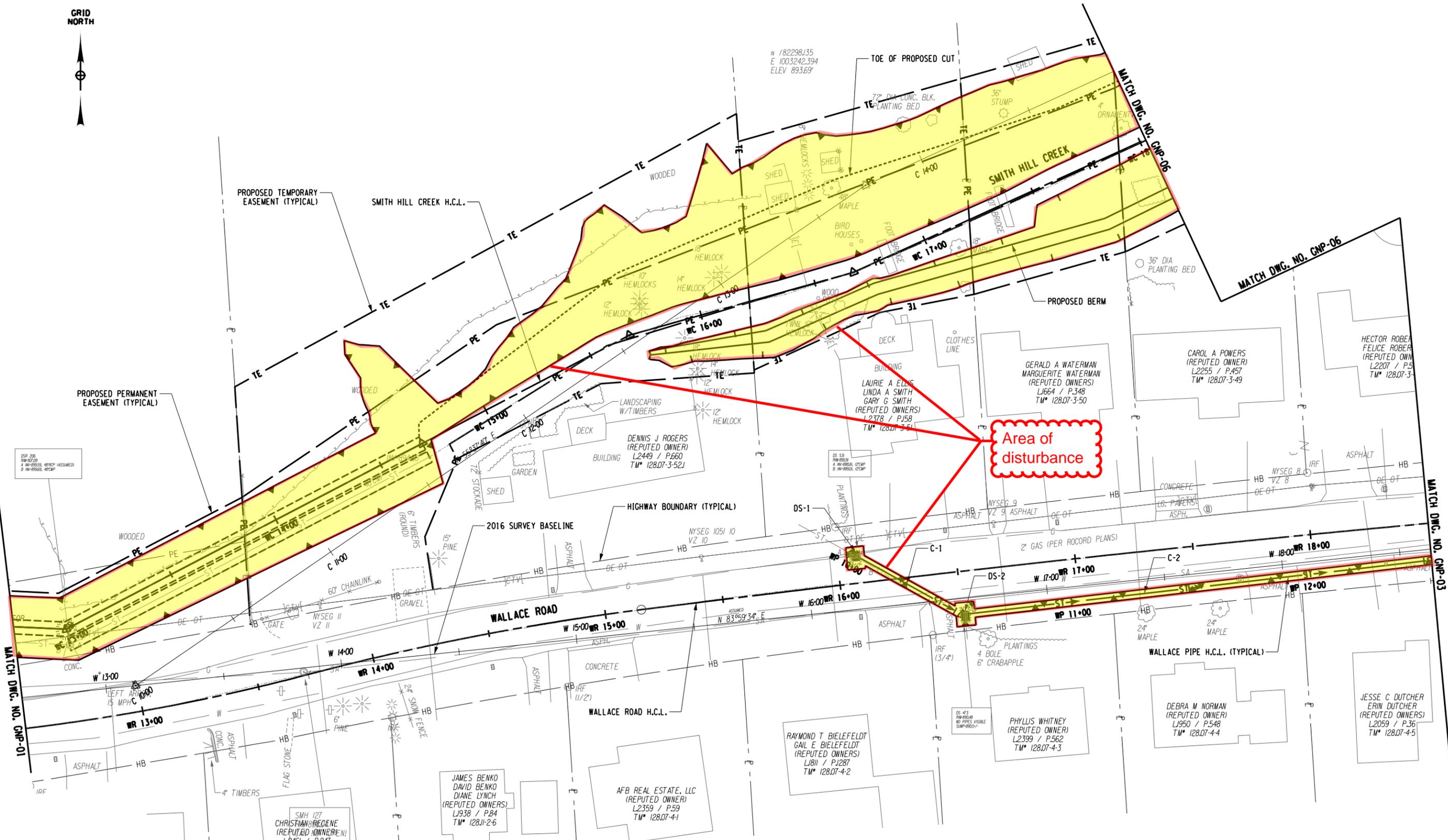
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
 WALLACE ROAD

 Woldt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-01
		DATE NOVEMBER 2016	SHEET OF

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Preliminary

SCALE BAR

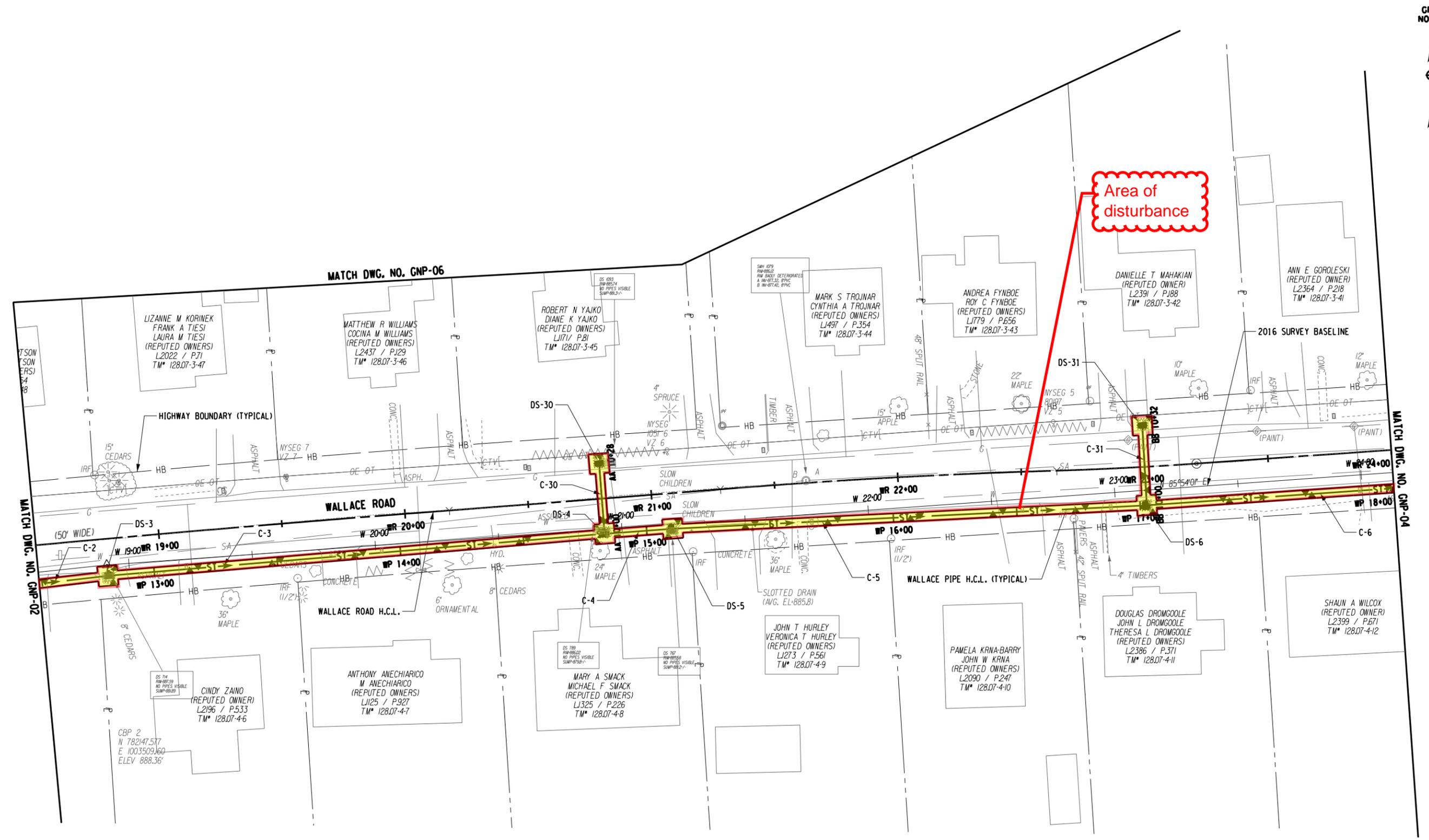
**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 WALLACE ROAD**

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**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
 WALLACE ROAD**



Woit Engineering



DELTA
 ENGINEERS, ARCHITECTS, & LAND SURVEYORS

SCALE
 AS SHOWN

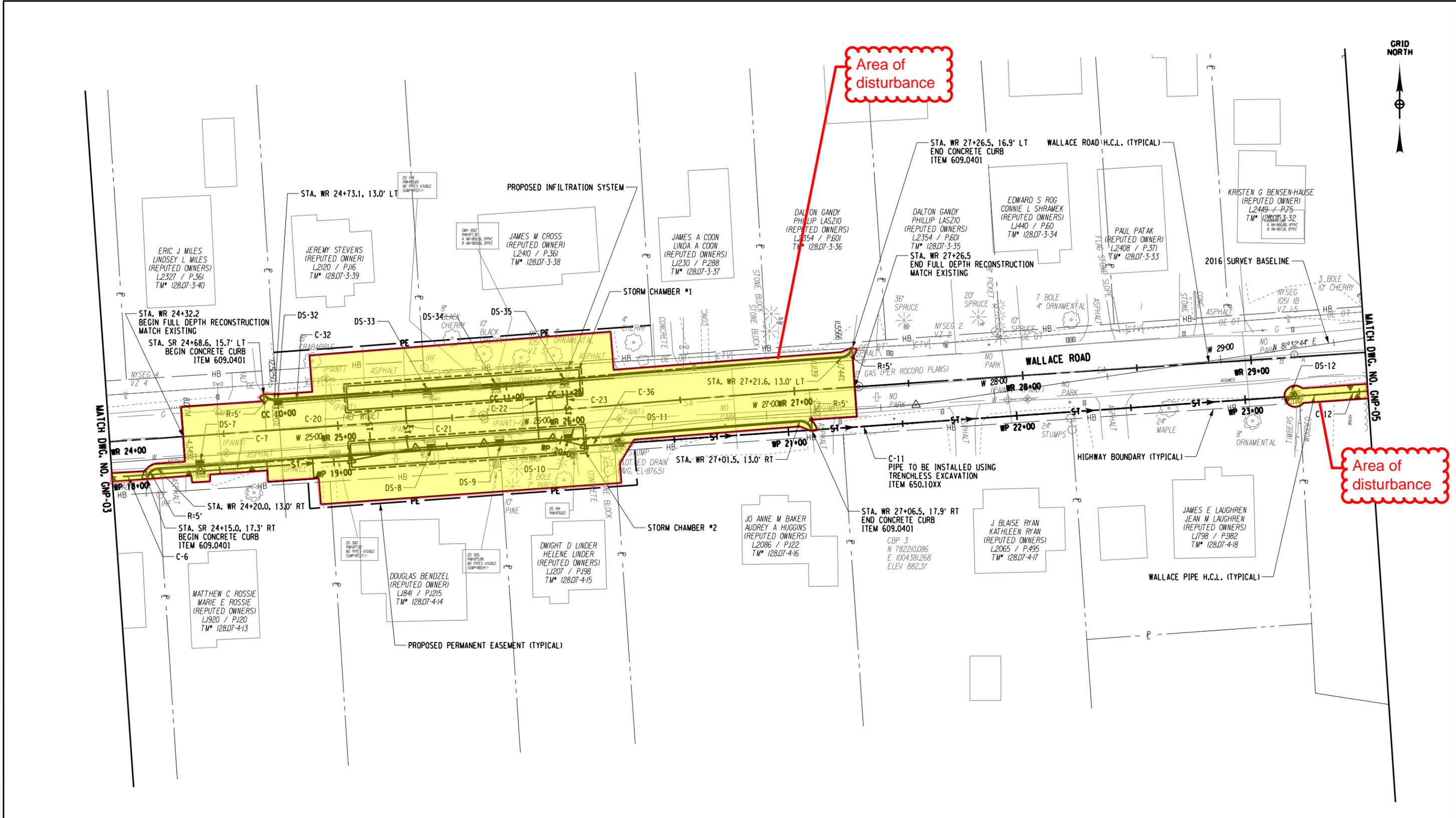
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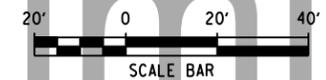
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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

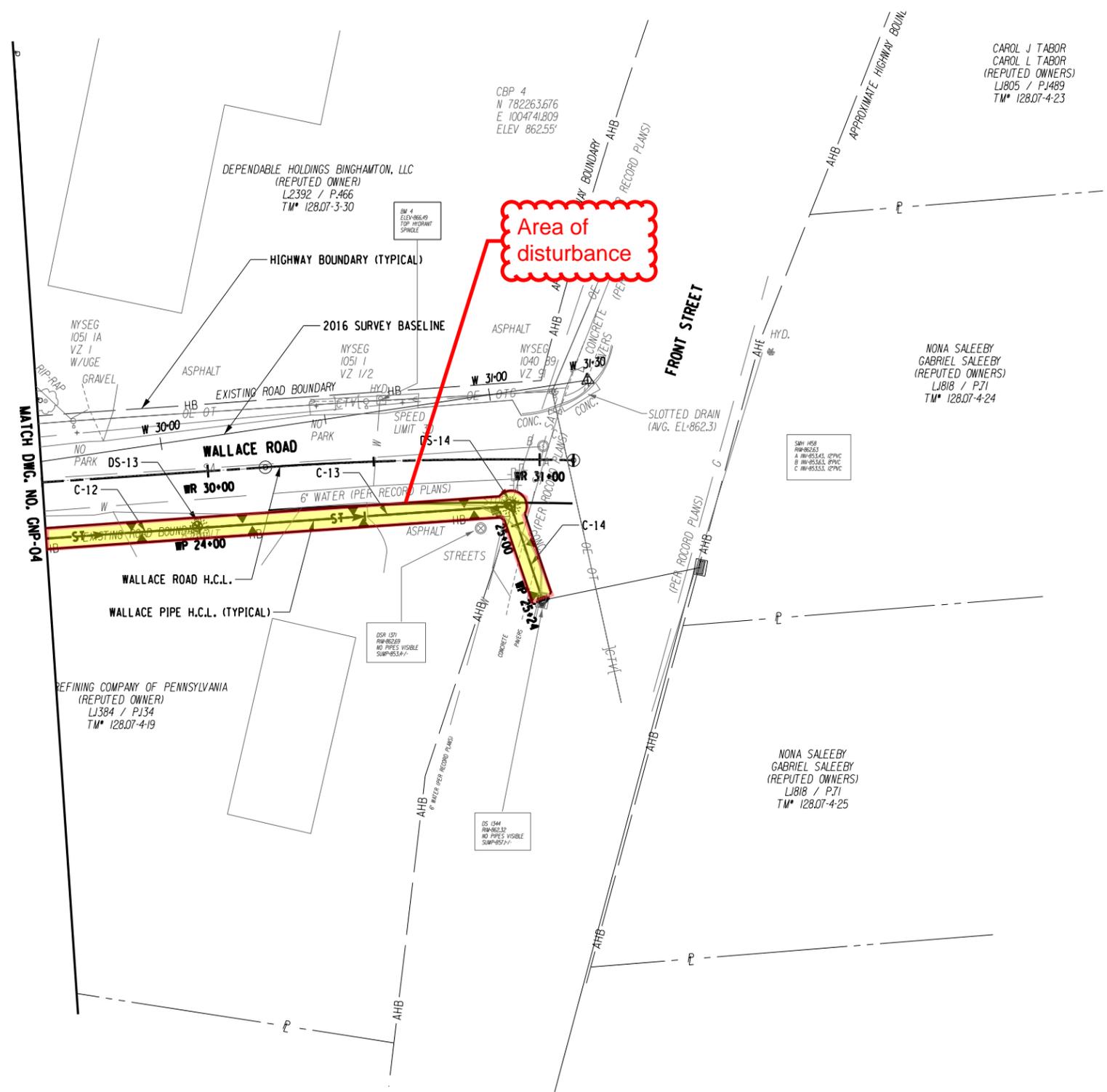
GENERAL PLAN
 WALLACE ROAD



 Wold Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-04
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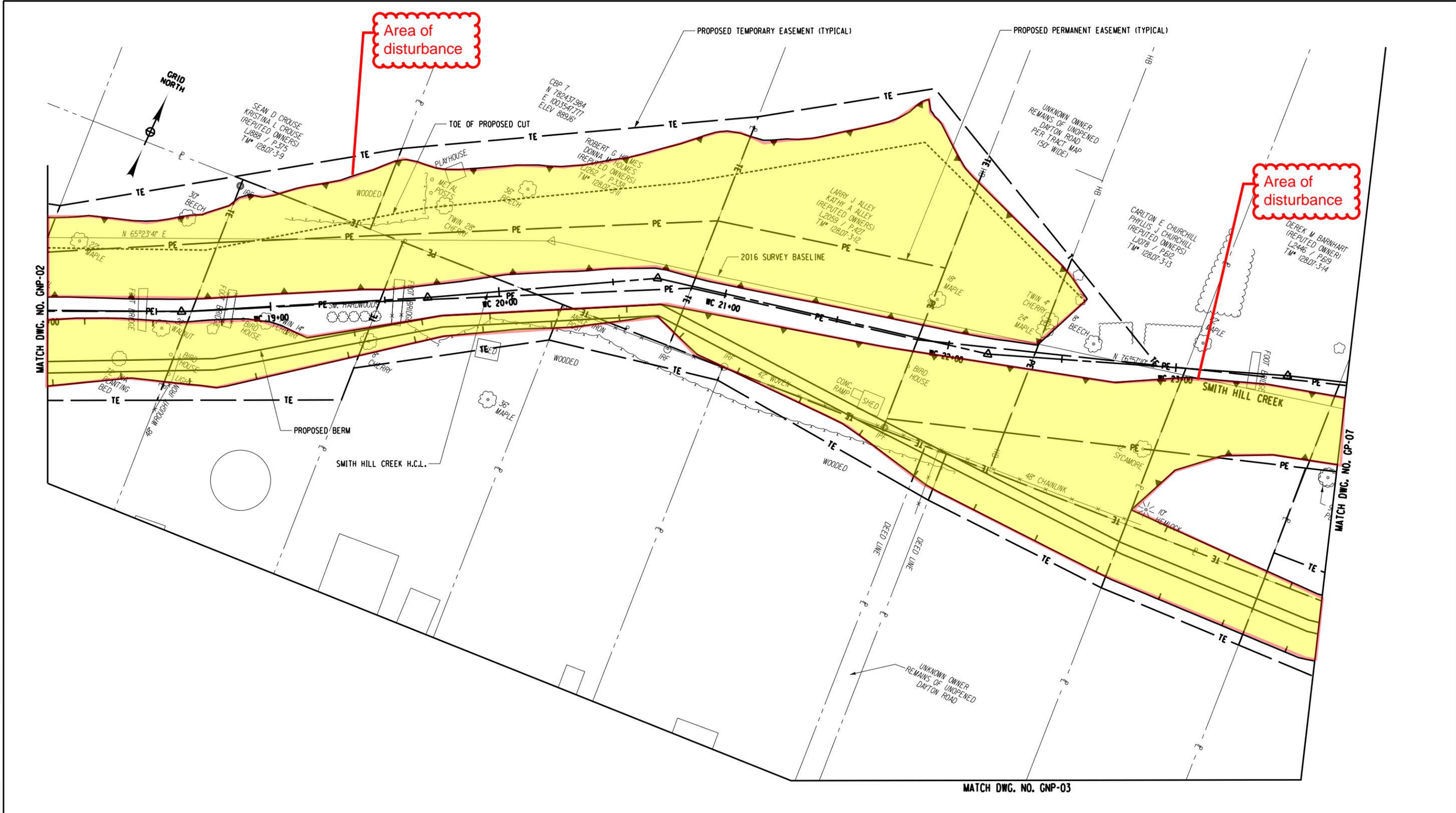
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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
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 Woidt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS
SCALE AS SHOWN DATE NOVEMBER 2016	DRAWING NO. GNP-05 SHEET OF

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 MATCH DWG. NO. GP-07
 MATCH DWG. NO. GNP-03



Preliminary

20' 0 20' 40'

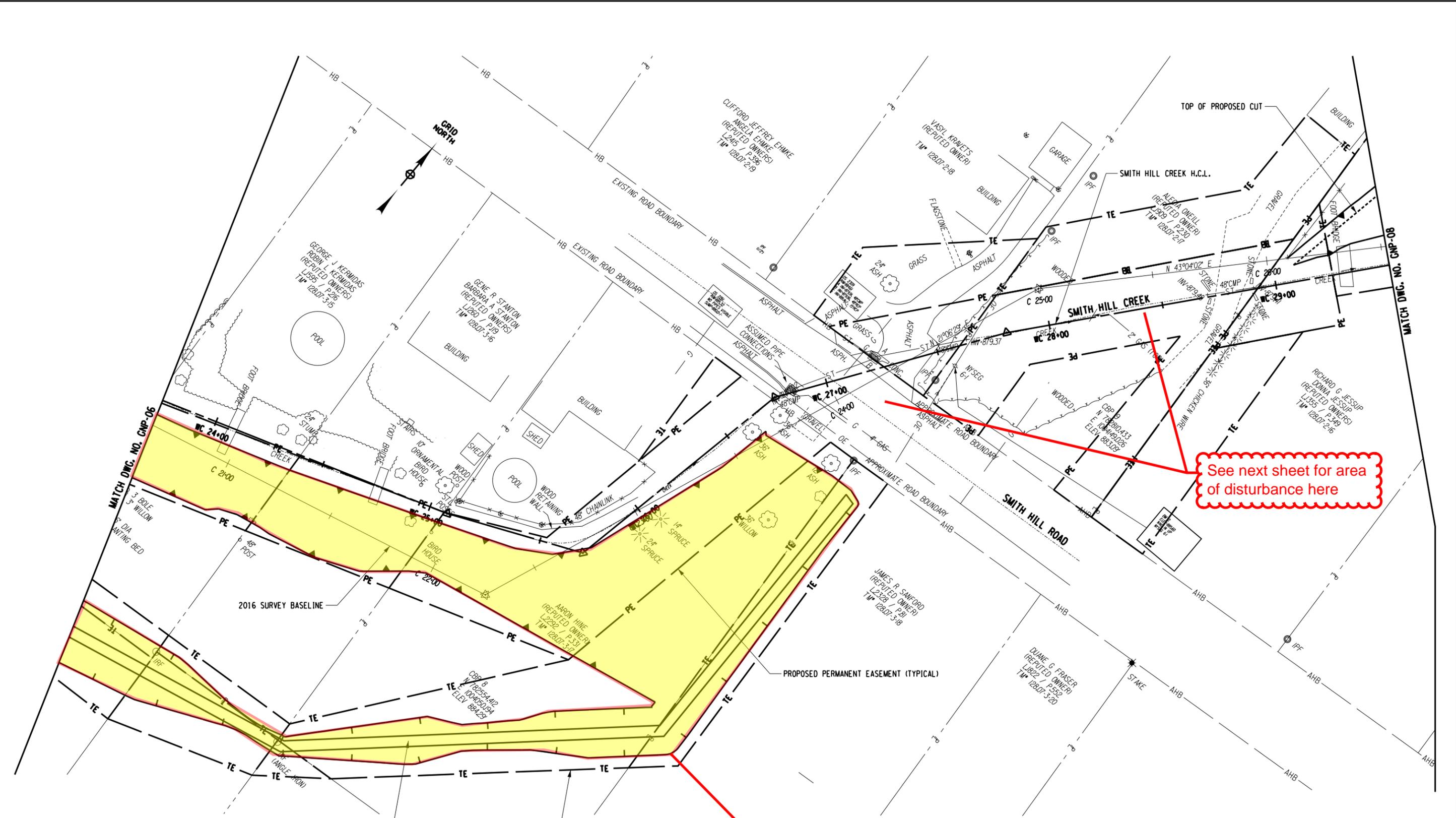
SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
SMITH HILL CREEK**

 <small>Voigt Engineering</small> <small>ENGINEERS, ARCHITECTS, & LAND SURVEYORS</small>	SCALE AS SHOWN	DRAWING NO. GNP-06
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See next sheet for area of disturbance here

Area of disturbance



TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM
 GENERAL PLAN
 SMITH HILL CREEK

		SCALE AS SHOWN	DRAWING NO. GNP-07
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CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

Area of
 disturbance

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

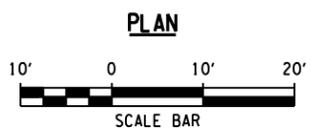
PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.
- 2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

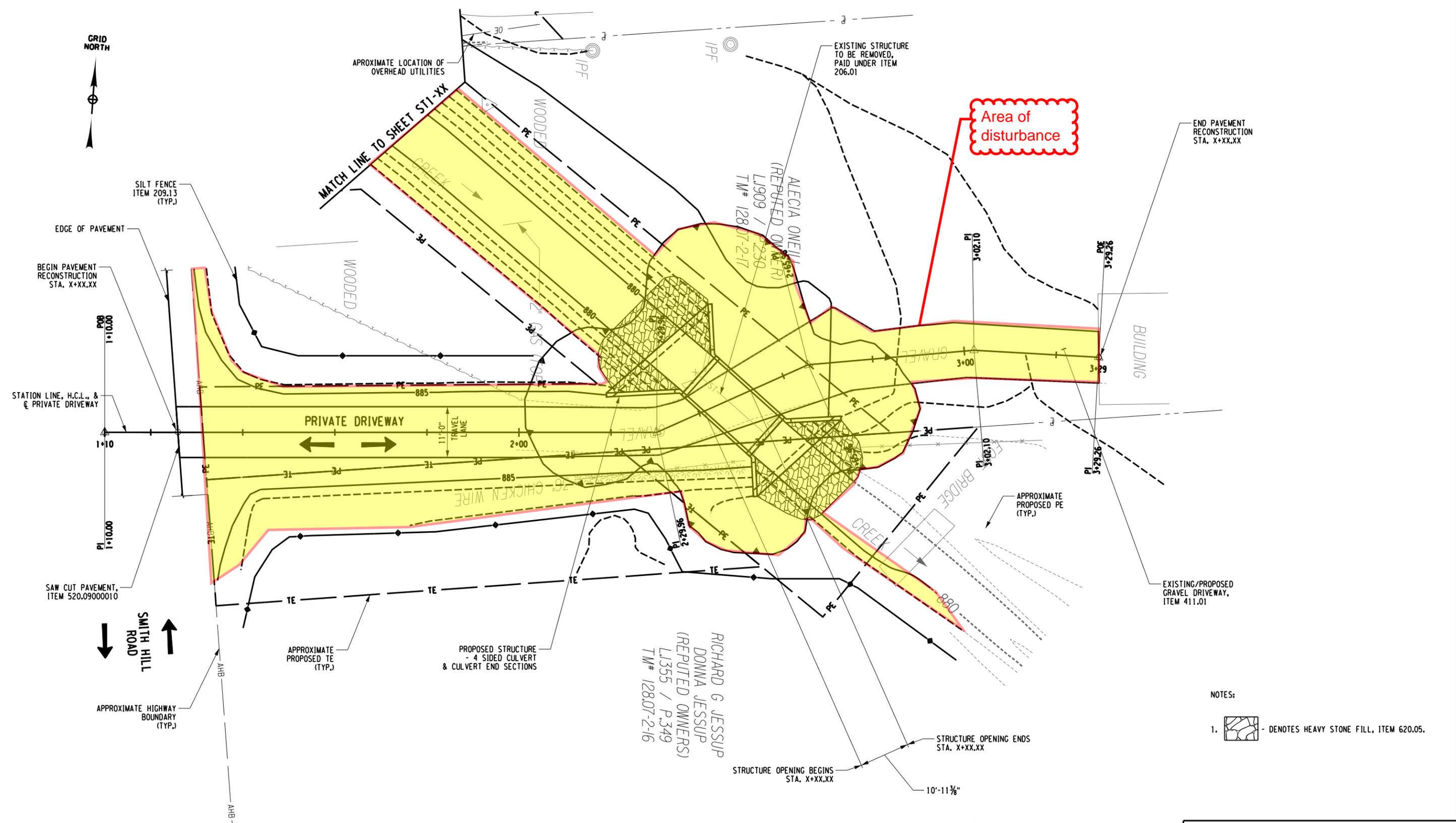
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN

 W&D Woldt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST1-XX
		DATE NOVEMBER 2016	SHEET XX OF

Preliminary

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 THIS IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
 IN CHARGE OF : GJM DESIGNED BY : BNS CHECKED BY : GJM
 DETAILED BY : BNS CHECKED BY : GJM

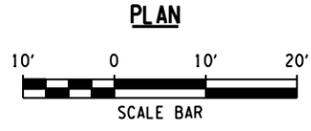


Area of disturbance

- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

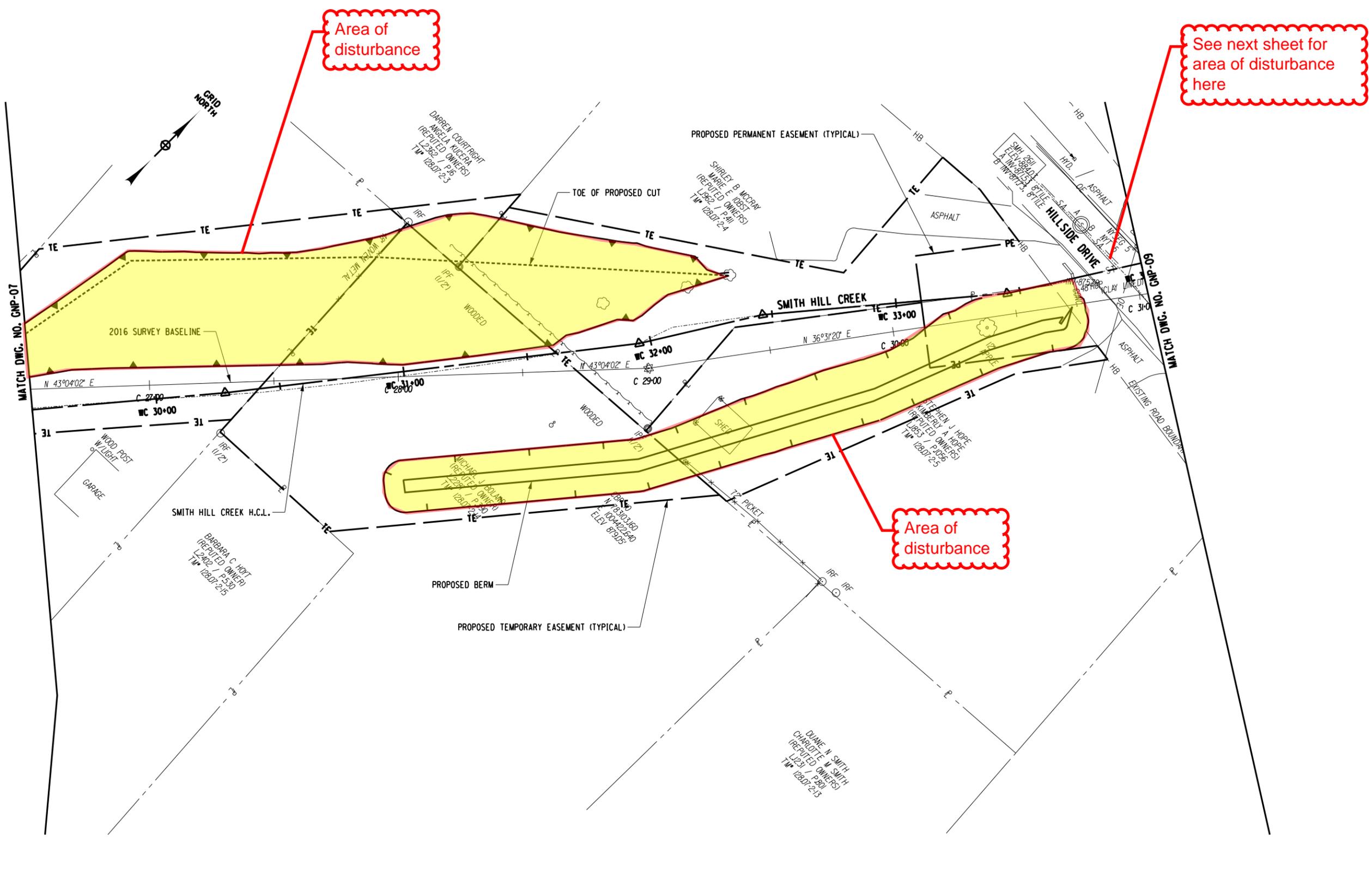


Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD DRIVEWAY GENERAL PLAN

 Woodruff Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST2-XX
		DATE NOVEMBER 2016	SHEET XX OF



See next sheet for area of disturbance here

Area of disturbance

Area of disturbance

Preliminary

20' 0 20' 40'

SCALE BAR

**TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

**GENERAL PLAN
SMITH HILL CREEK**

 <small>DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS</small>	SCALE AS SHOWN	DRAWING NO. GNP-08
	DATE NOVEMBER 2016	SHEET OF

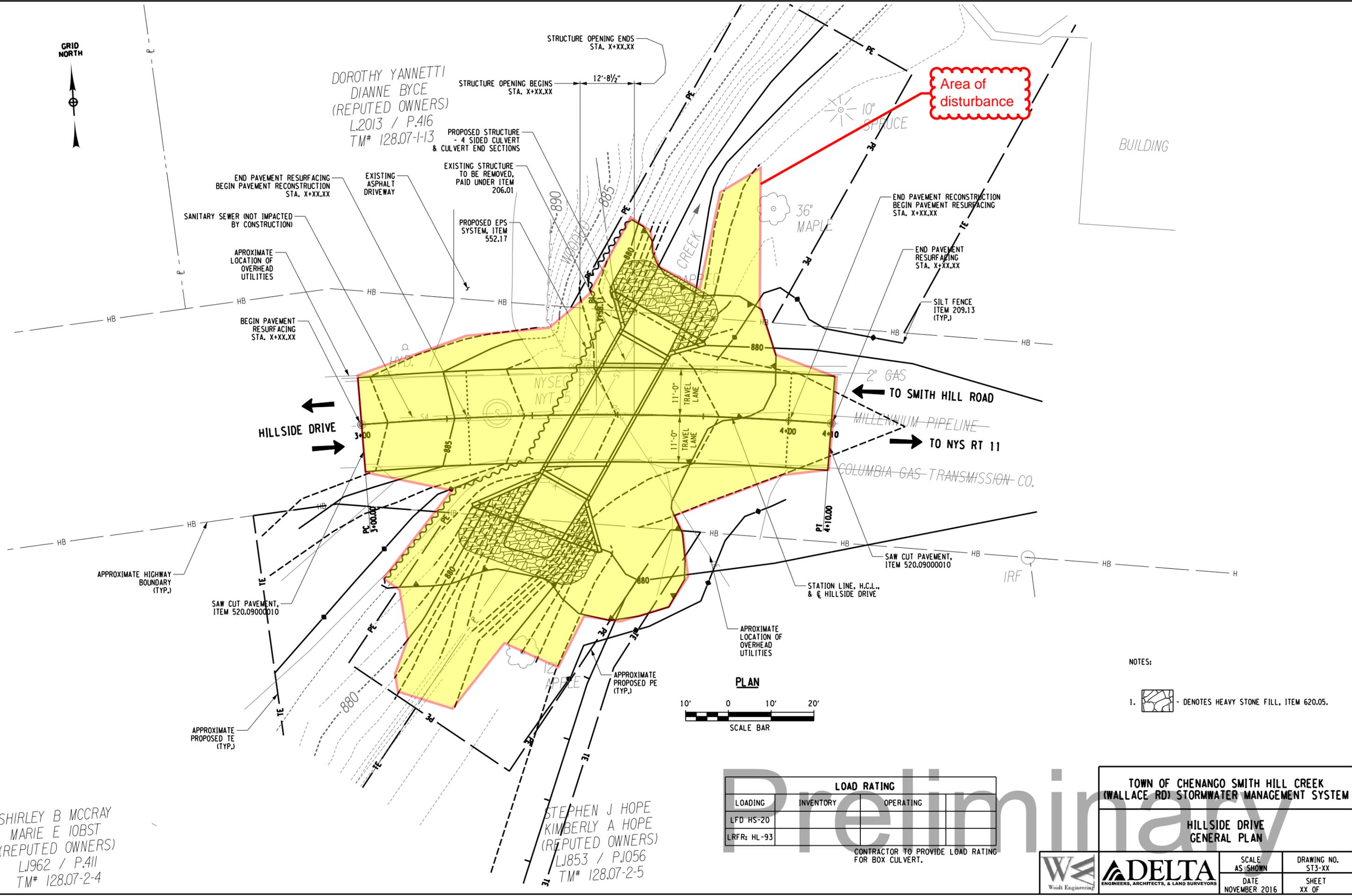
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 CHECKED BY : COM

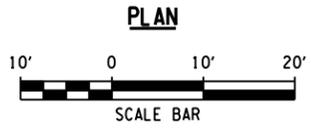
SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



Area of disturbance



LOAD RATING		
LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

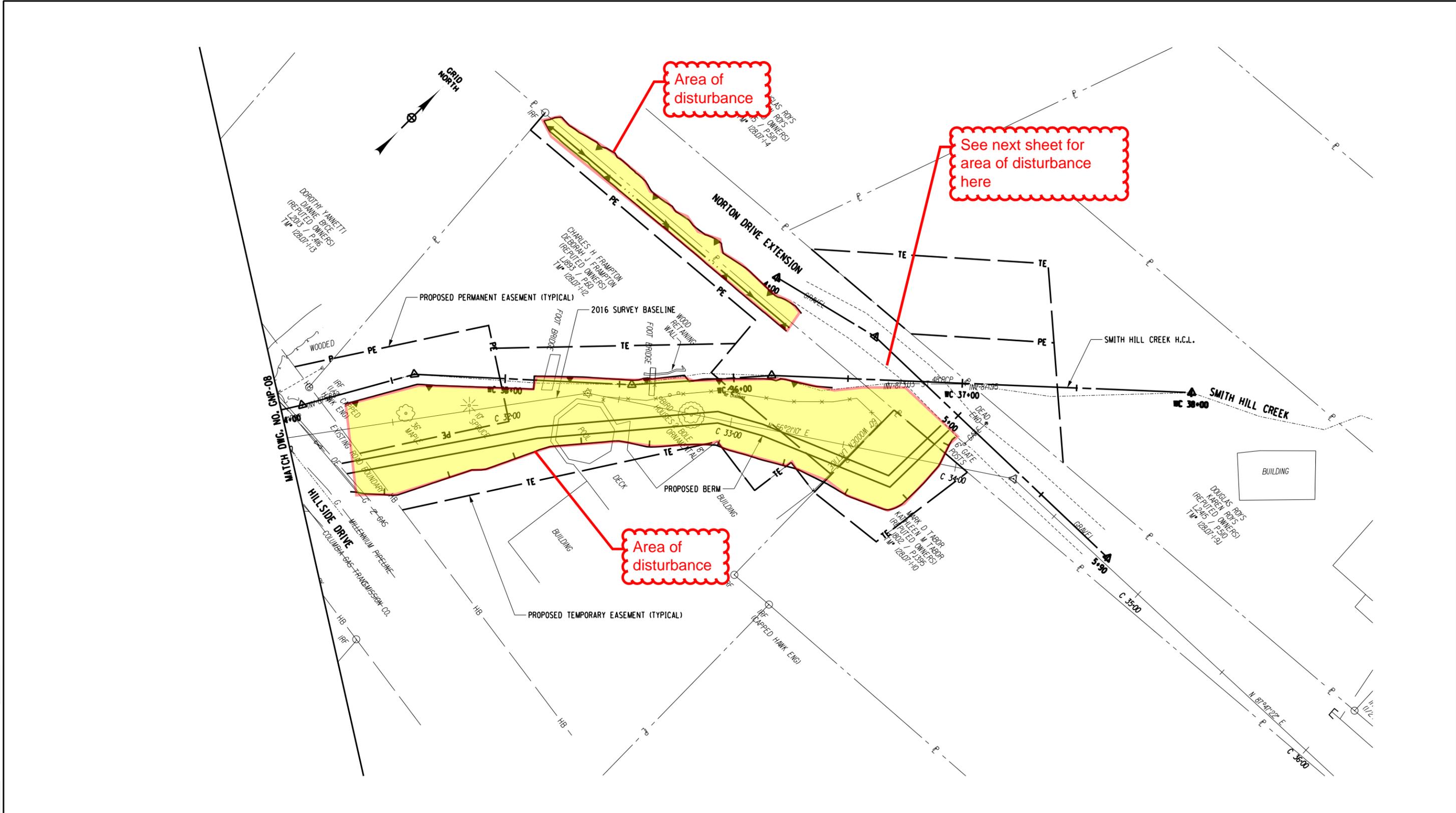
- NOTES:
1. DENOTES HEAVY STONE FILL, ITEM 620.05.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF

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 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM			
GENERAL PLAN SMITH HILL CREEK			
 Woidt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-09
		DATE NOVEMBER 2016	SHEET OF

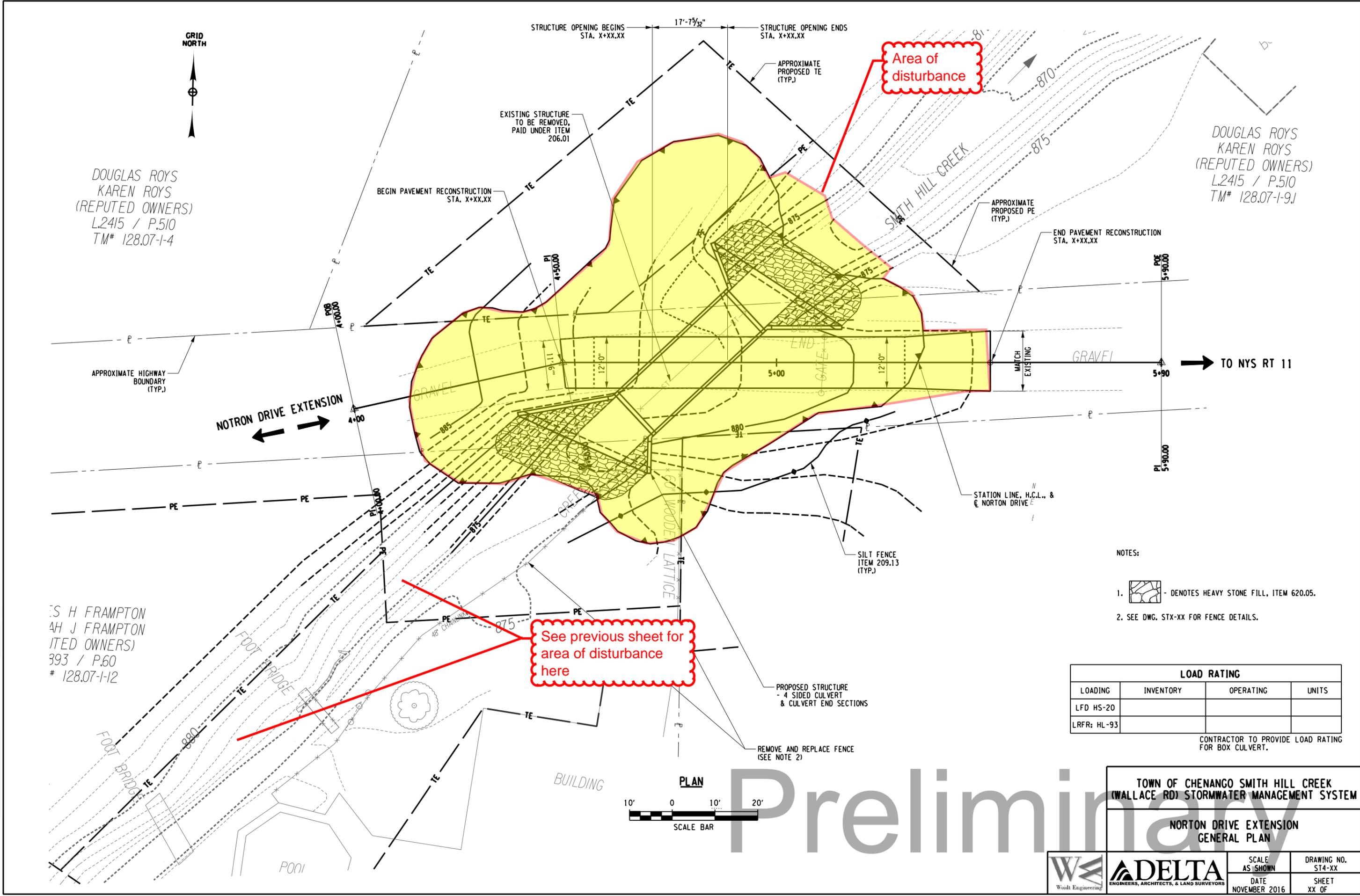
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 DESIGNED BY : **BNS**
 CHECKED BY : **COM**
 DETAILED BY : **BNS**
 CHECKED BY : **COM**

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



See previous sheet for
 area of disturbance
 here

Area of
 disturbance

- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



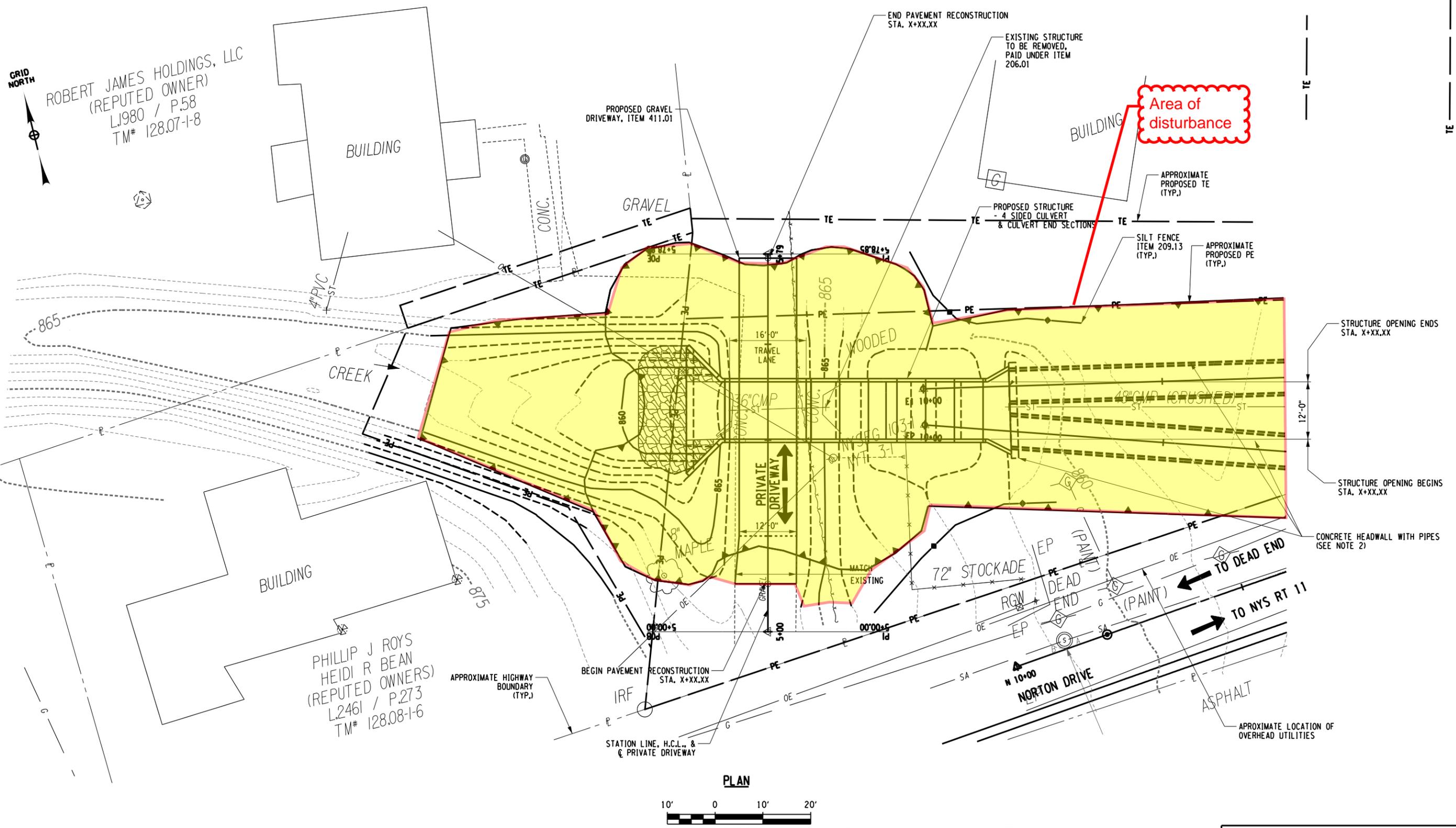
Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

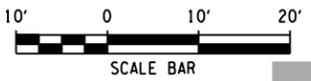
NORTON DRIVE EXTENSION
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST4-XX
		DATE NOVEMBER 2016	SHEET XX OF

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 DESIGNED BY : SAS
 CHECKED BY : CUM
 DETAILED BY : SAS
 CHECKED BY : CUM



PLAN



LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

NOTES:

- DENOTES HEAVY STONE FILL, ITEM 620.05.
- FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY GENERAL PLAN

W&D Woodruff Engineering	DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST15-XX
		DATE NOVEMBER 2016	SHEET XX OF

Preliminary

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 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM

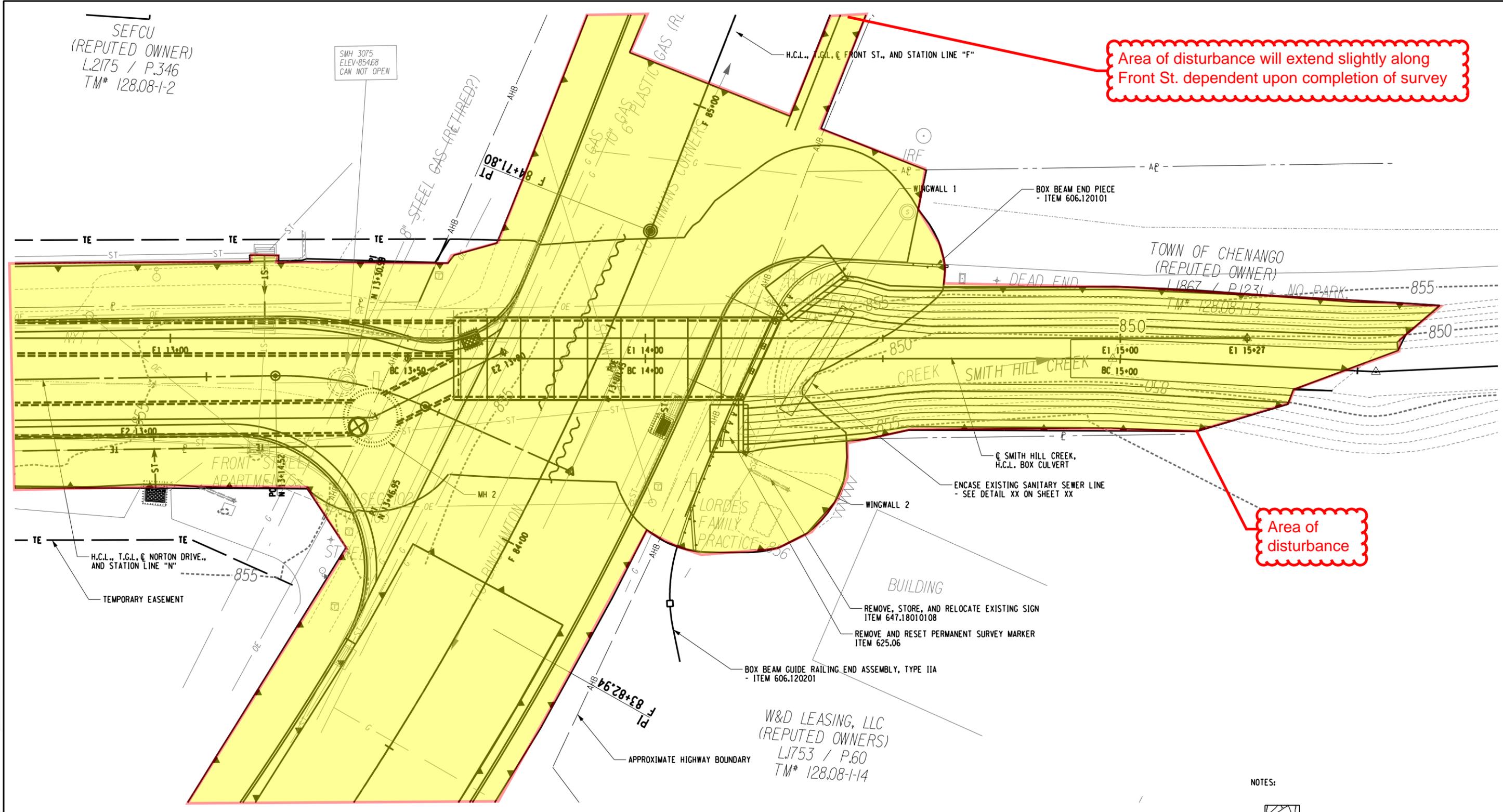
SEFCU
 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN

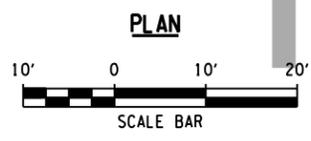
Area of disturbance will extend slightly along Front St. dependent upon completion of survey

Area of disturbance

Area of disturbance will extend slightly along Front St. dependent upon completion of survey

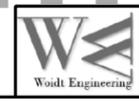


- NOTES:
1. DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
FRONT STREET GENERAL PLAN	
SCALE AS SHOWN	DRAWING NO.
DATE NOVEMBER 2016	SHEET OF



From: [Bonney Hartley](#)
To: [Barthelme, Mary \(STORMRECOVERY\)](#)
Subject: RE: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York
Date: Thursday, April 27, 2017 4:12:38 PM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Mary,

This project is out of our area of interest, so I have no comment.

Thanks!

Bonney

From: Barthelme, Mary (STORMRECOVERY) [mailto:Mary.Barthelme@stormrecovery.ny.gov]
Sent: Wednesday, March 29, 2017 2:28 PM
To: Bonney Hartley
Cc: Shultz, Alicia (NYSHCR)
Subject: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

Dear Bonney,

Please see the attached consultation for the above-mentioned project.

A hard copy is being sent today by mail. Please let me know if you have any questions.

Thank you,

Mary Barthelme

Mary Barthelme

Environmental and Historic Preservation Specialist

Governor's Office of Storm Recovery

99 Washington Avenue, Suite 1224, Albany NY 12260

O: [\(518\) 473-0154](tel:(518)473-0154) | C: [\(646\) 706-6748](tel:(646)706-6748) | F: [\(518\) 474-6102](tel:(518)474-6102) |

Mary.Barthelme@stormrecovery.ny.gov

www.stormrecovery.ny.gov

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From: [Kimberly Penrod](#)
To: [Barthelme, Mary \(STORMRECOVERY\)](#)
Cc: [Kimberly Penrod](#)
Subject: RE: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York
Date: Monday, April 24, 2017 11:09:18 AM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Mary,

The protection of our tribal cultural resources and tribal trust resources will take all of us working together.

We look forward to working with you and your agency.

With the information you have submitted we can concur at present with this proposed plan.

Our main concerns at the Delaware Nation on these projects are as follows:

1. Keeping a 50-100 ft (at least) area of protection around known sites.
2. Maintaining the buffer area and not allowing heavy equipment to impact these areas.
Compression is an issue of concern for us.
3. And if something is found, halting all work, contacting us within 48 hours and when work resumes discussion of a monitor if needed.

As with any new project, we never know what may come to light until work begins.

The Delaware Nation asks that you keep us up to date on the progress of this project and if any discoveries arise please contact us immediately.

If you need anything additional from me please do not hesitate to contact me.

Thanks for the additional materials.

Kim

Respectfully,

Kim Penrod

Delaware Nation

Director, Cultural Resources/

106, Archives, Library and Museum

31064 State Highway 281

PO Box 825

Anadarko, OK 73005

(405)-247-2448 Ext. 1403 Office

(405)-924-9485 Cell

kpenrod@delawarenation.com

From: Barthelme, Mary (STORMRECOVERY) [mailto:Mary.Barthelme@stormrecovery.ny.gov]
Sent: Thursday, April 20, 2017 12:10 PM
To: Kimberly Penrod
Cc: Shultz, Alicia (NYSHCR)
Subject: RE: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

Dear Kim,

Please see the updated consultation request in regards to the above-mentioned project. The area of potential effect has increased and maps, figures, and an updated consultation is attached reflecting this change.

Thank you,

Mary Barthelme

From: Barthelme, Mary (STORMRECOVERY)
Sent: Friday, March 31, 2017 9:59 AM
To: 'Kimberly Penrod' <kpenrod@delawarenation.com>
Subject: RE: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

Thank you Kim for your response! Have a great weekend.

From: Kimberly Penrod [mailto:kpenrod@delawarenation.com]
Sent: Friday, March 31, 2017 9:51 AM
To: Barthelme, Mary (STORMRECOVERY) <Mary.Barthelme@stormrecovery.ny.gov>
Cc: Kimberly Penrod <kpenrod@delawarenation.com>
Subject: RE: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Mary,

The protection of our tribal cultural resources and tribal trust resources will take all of us working together.

We look forward to working with you and your agency.

With the information you have submitted we can concur at present with this proposed plan.

As with any new project, we never know what may come to light until work begins. The Delaware Nation asks that you keep us up to date on the progress of this project and if any discoveries arise please contact us immediately.

If you need anything additional from me please do not hesitate to contact me.

Respectfully,

Kim Penrod

Delaware Nation

Director, Cultural Resources/

106, Archives, Library and Museum

31064 State Highway 281

PO Box 825

Anadarko, OK 73005

(405)-247-2448 Ext. 1403 Office

(405)-924-9485 Cell

kpenrod@delawarenation.com

From: Barthelme, Mary (STORMRECOVERY) [<mailto:Mary.Barthelme@stormrecovery.ny.gov>]

Sent: Wednesday, March 29, 2017 1:25 PM

To: Kimberly Penrod

Cc: Shultz, Alicia (NYSHCR); Jason Ross; Corey Smith

Subject: Section 106 Discussion for the Smith Hill Creek (Wallace Road) Storm Water Management System Project, Town of Chenango, Broome County, New York

Dear Kim,

Please find attached to this email a Section 106 consultation request for the above-mentioned project in New York State, Broome County.

Please let me know if you have any questions.

Thank you,

Mary Barthelme

Mary Barthelme

Environmental and Historic Preservation Specialist

Governor's Office of Storm Recovery

99 Washington Avenue, Suite 1224, Albany NY 12260

O: [\(518\) 473-0154](tel:(518)473-0154) | C: [\(646\) 706-6748](tel:(646)706-6748) | F: [\(518\) 474-6102](tel:(518)474-6102) |

Mary.Barthelme@stormrecovery.ny.gov

www.stormrecovery.ny.gov

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ONEIDA INDIAN NATION



JESSE J. BERGEVIN
HISTORIC RESOURCES SPECIALIST

DIRECT DIAL: (315) 829-8463
FACSIMILE: (315) 829-8473
E-MAIL: jbergevin@oneida-nation.org

ONEIDA NATION HOMELANDS

May 19, 2017

Alicia Shultz
Bureau of Environmental Review and Assessment
New York State Homes & Community Renewal
38-40 State St., 408N, Hampton Plaza
Albany, NY 12207

(Transmitted by email)

Re: Smith Hill Creek (Wallace Road) Storm Water Management System Project
Town of Chenango, Broome County, New York

Dear Ms. Shultz,

On April 20, 2017, the Oneida Indian Nation (the "Nation") received an email with documentation from the Governor's Office of Storm Recovery (GOSR) regarding the Smith Hill Creek (Wallace Road) Storm Water Management System Project in the Town of Chenango, Broome County, New York (the "Project"). The Project lies within the Oneida's aboriginal territory and within an area that the Nation would consider favorable to past Oneida land use.

Based on the documentation provided, the Nation concurs with the assessment that the Project will likely result in No Historic Properties Affected. However, the Nation requests notification and the opportunity to respond to any inadvertent discoveries of historic properties or human remains if encountered during the work for the Project.

Please feel free to contact me at (315) 829-8463 with any questions.

Very truly yours,

ONEIDA INDIAN NATION

A handwritten signature in black ink, appearing to read "Jesse J. Bergevin", with a long horizontal flourish extending to the right.

Jesse J. Bergevin



**Governor's Office of
Storm Recovery**

ANDREW M. CUOMO
Governor

LISA BOVA-HIATT
Executive Director

March 21, 2017

Re: Lead Agency Designation for Environmental Review of Smith Hill Creek (Wallace Road) Storm Water Management System Project, (Broome County, New York)

Dear Involved or Interested Agency

The Governor's Office of Storm Recovery ("GOSR") proposes to serve as lead agency under the State Environmental Quality Review Act ("SEQRA") and related laws for the environmental review of the proposed Smith Hill Creek (Wallace Road) Storm Water Management System Project (the "Proposed Action"). GOSR is conducting an environmental review of the Proposed Action on behalf of the State of New York as the recipient of Community Development Block Grant - Disaster Recovery ("CDBG-DR") funds from the U.S. Department of Housing and Urban Development under 42 U.S.C. § 5304(g).¹

The Proposed Action consists of upsizing culverts, installing check dams, catch basins, drainage piping, and trash racks along Smith Hill Creek located in Chenango, New York to improve storm water management facilities to better handle significant storm events, increase capacity and effectiveness, and help prevent or reduce the risk of and damage to persons and property from future storm events. The Smith Hill Creek storm water system completely failed during Tropical Storm Lee, where the system was overwhelmed by sheet flow draining off of local hills, and became clogged with debris. The Proposed Action would be completed in two phases; the first being the Wallace Road component, featuring a 24" outlet pipe at Wallace Road extending only to the NYSDOT system on Front Street – this outlet pipe would be used as an overflow outlet; the second being the Smith Hill Creek component which will require easements from homeowners. This component includes the Norton Drive culvert having new twin 60" pipes installed at the inlet which outlets to the stream, flood benches and berms.

This action has been preliminarily classified as a Type I action pursuant to SEQRA. Additional information regarding the Proposed Action and its location are provided in the enclosed Long Environmental Assessment Form. The review of the Proposed Action under SEQRA would satisfy the requirements of 6 NYCRR Part 617.

Your agency or organization has been identified as a potential cooperating, involved, or interested agency for the review and approval of the Proposed Action. If your agency consents to GOSR's serving as the lead agency for review under SEQRA, please so indicate by signing this letter and returning it at your earliest convenience to Lori A. Shirley at 38-40 State Street, Albany, New York 12207 or simply email a signed copy to Lori.Shirley@nyshcr.org. If we have not heard from you by April 21st, 2017 your consent will be assumed.

¹ The Governor's Office of Storm Recovery, operating under the auspices of New York State Homes and Community Renewal's Housing Trust Fund Corporation, is the responsible entity for the administration of the CDBG-DR grants to the State of New York.

If you have any questions, please feel free to contact me at (518) 474-0755. Thank you for your consideration and cooperation.

Sincerely,



Lori A. Shirley
Director
Bureau of Environmental Review and Assessment
Governor's Office of Storm Recovery

The undersigned hereby consents to The Governor's Office of Storm Recovery serving as lead agency for Smith Hill Creek (Wallace Road) Storm Water Management System Project.

Agency/Organization: _____

By: _____

Name: _____

Title: _____

Date: _____

Permits/Approvals/Comments: _____

- Enclosure: Long Environmental Assessment Form Part 1
Figure 1 – Smith Hill Creek - Project Area
Figure 2 – Smith Hill Road - Proposed Site Improvements
Figure 3 – Smith Hill Creek – Areas of Disturbance
List of Involved and Interested Agencies

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources. <ul style="list-style-type: none"> <li>i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No <li>ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No <li>iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No 		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length Two structures

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

• If to surface waters, identify receiving water bodies or wetlands: _____

• Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p><i>i.</i> During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p><i>ii.</i> During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
---	--

<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>n. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p> <p>_____</p> <p>_____</p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: _____</p> <p>_____</p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s):</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ _____ • Operation: _____ _____ 	

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and coverytypes on the project site.

Land use or Coverytype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places? Yes No

If Yes:

i. Nature of historic/archaeological resource: Archaeological Site Historic Building or District

ii. Name: _____

iii. Brief description of attributes on which listing is based: _____

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? Yes No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? Yes No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? Yes No

If Yes:

i. Identify resource: Chenango Valley State Park

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): NYS Historic Places, NY State Parks

iii. Distance between project and resource: _____ 4.8 miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? Yes No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? Yes No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

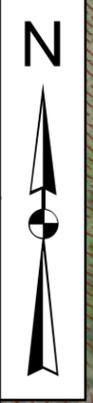
Applicant/Sponsor Name Harold Snopce Date 3/20/17

Signature Harold Snopce Title Supervisor



Project Area

Legend
 Project Area



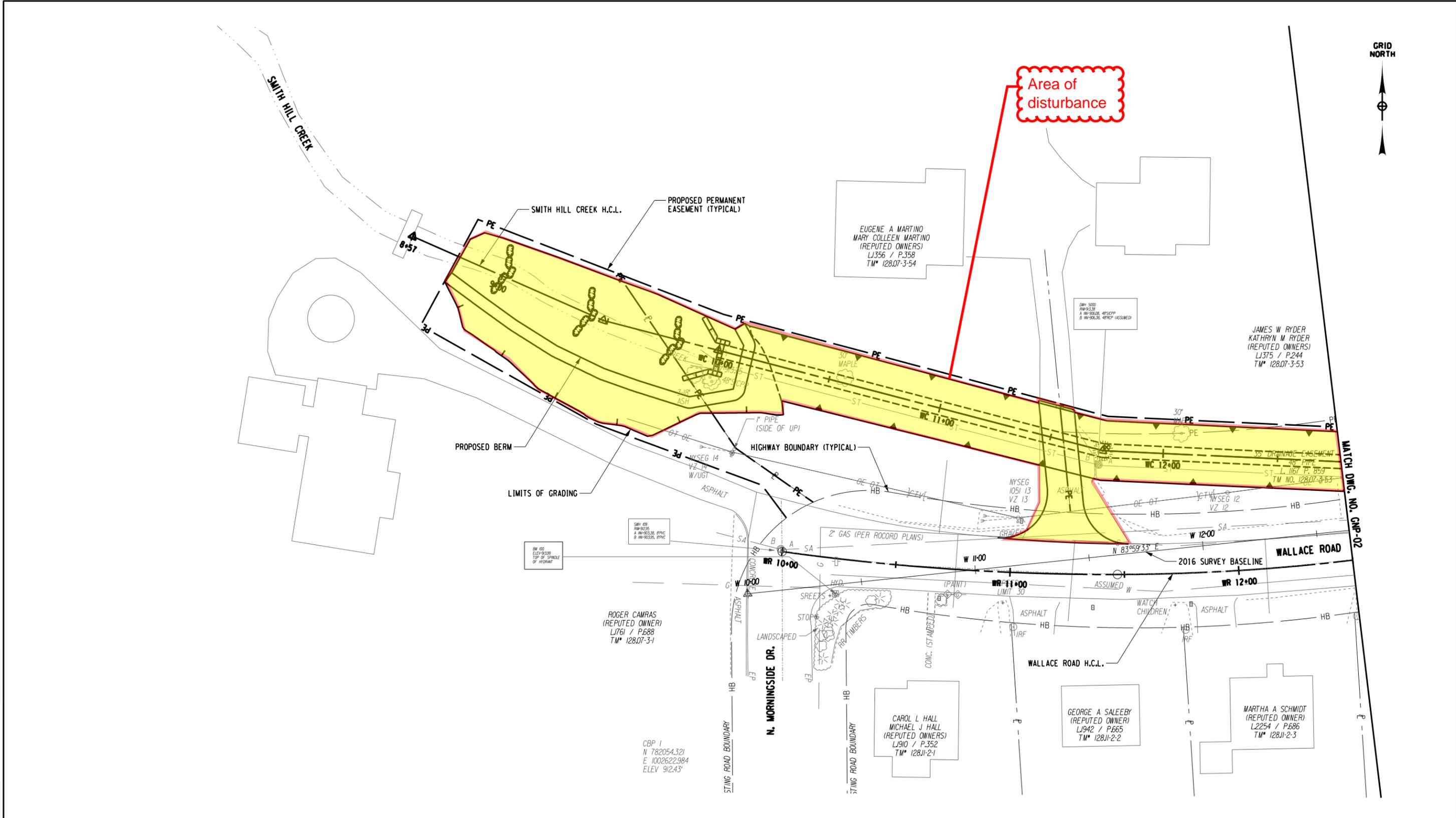
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, US Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors

Legend

- SmithHillCreek_BermBenchLimits
- SmithHillCreek_CrossSections
- SmithHillCreek_CenterlineFull
- LiDAR-Large

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 DESIGNED BY : JJM
 CHECKED BY : SAS
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

**TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM**

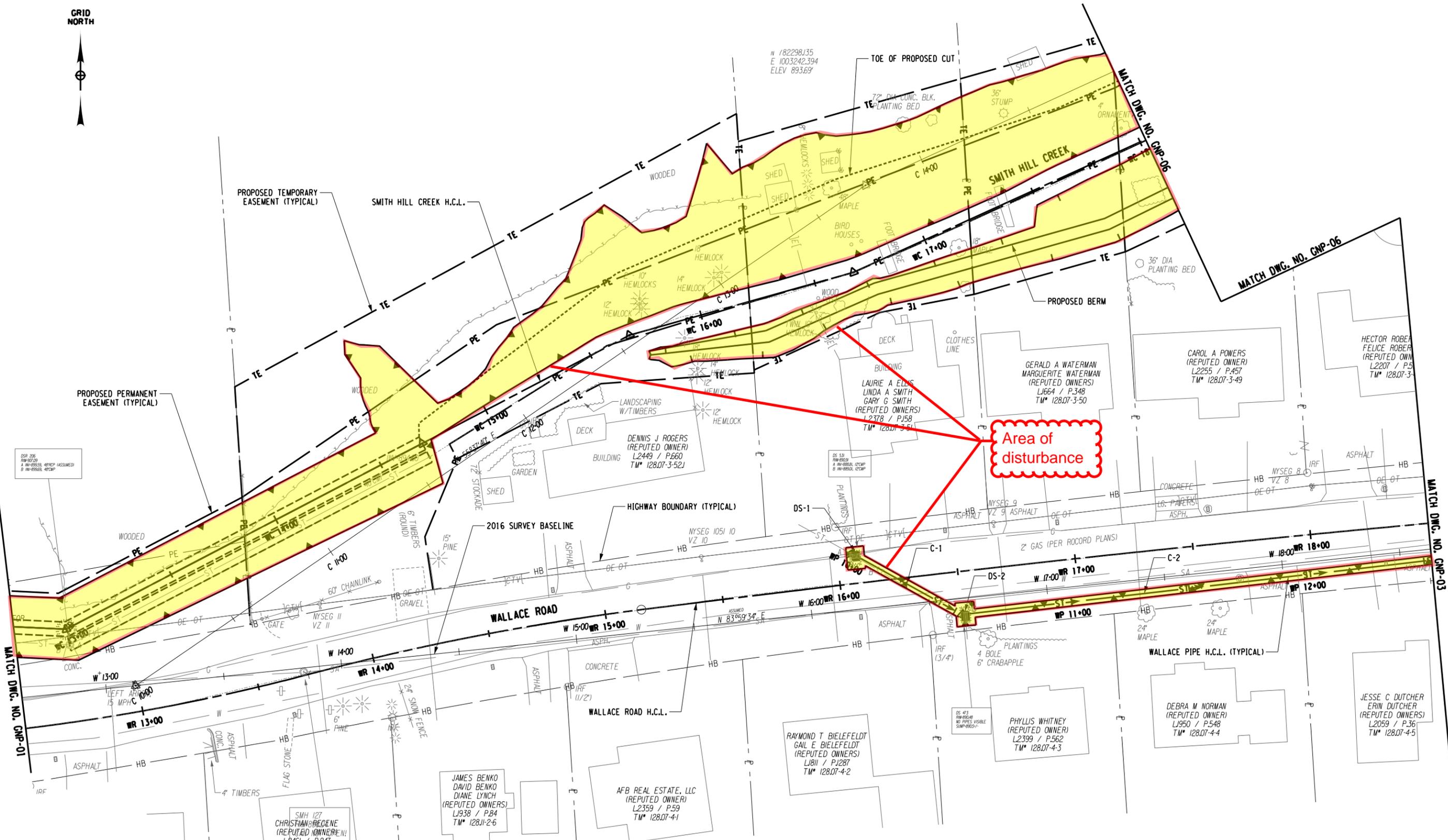
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 WALLACE ROAD**



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 DESIGNED BY : SAS
 CHECKED BY : CJM
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Area of disturbance

Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

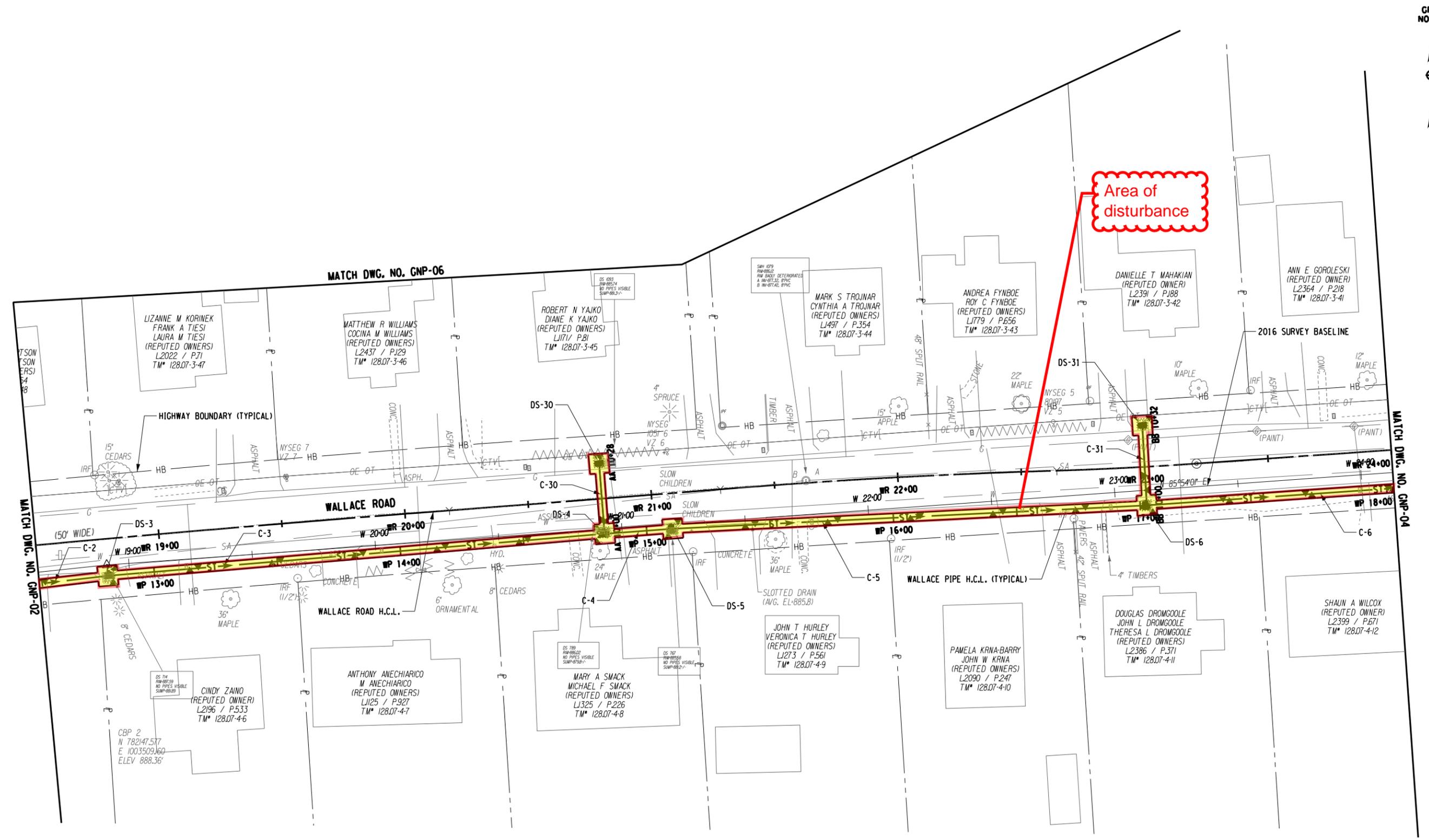
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 WALLACE ROAD



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Preliminary

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

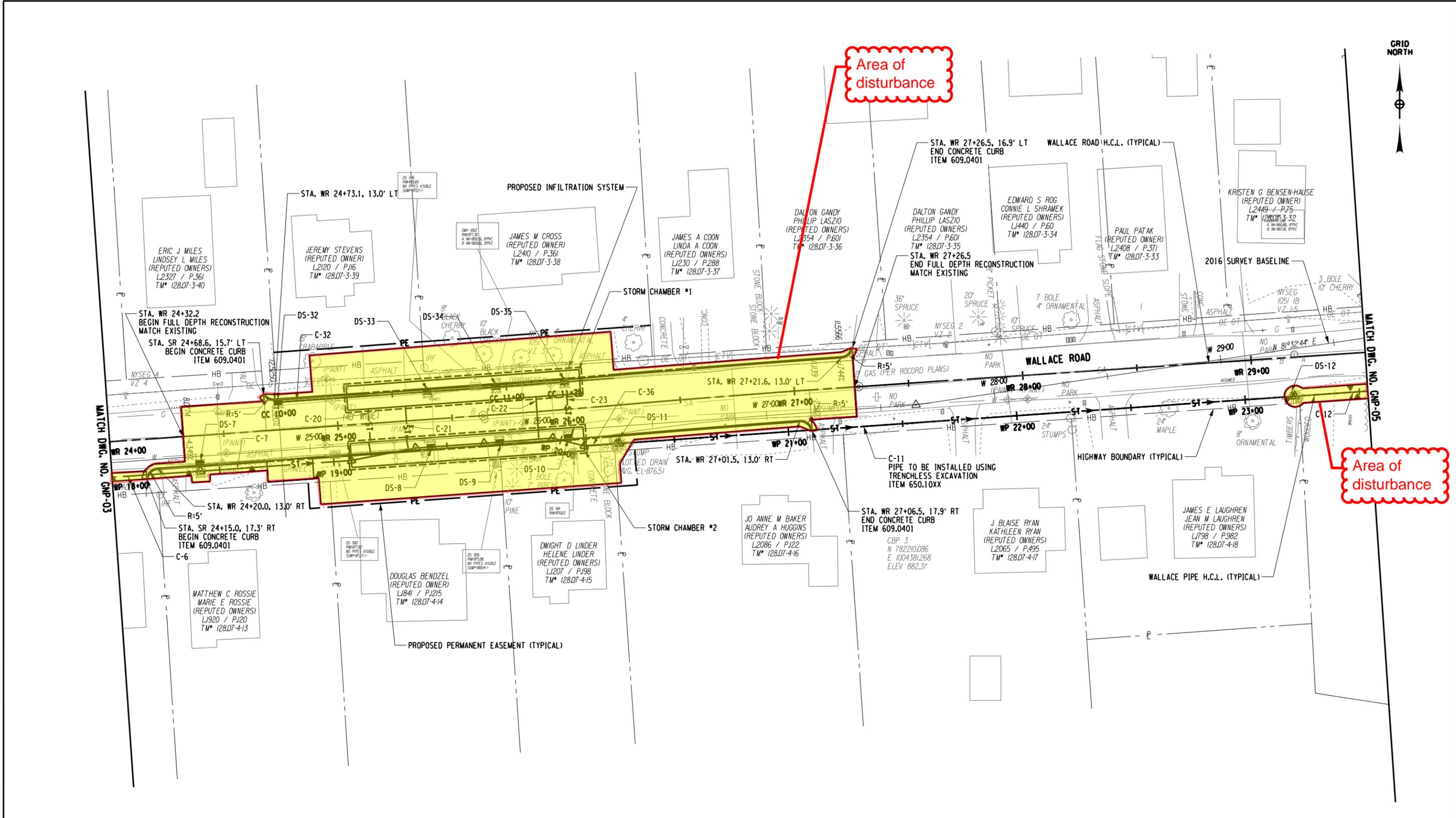
GENERAL PLAN
 WALLACE ROAD



 Woldt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-03
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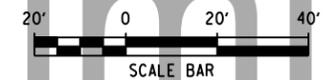
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Preliminary

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 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

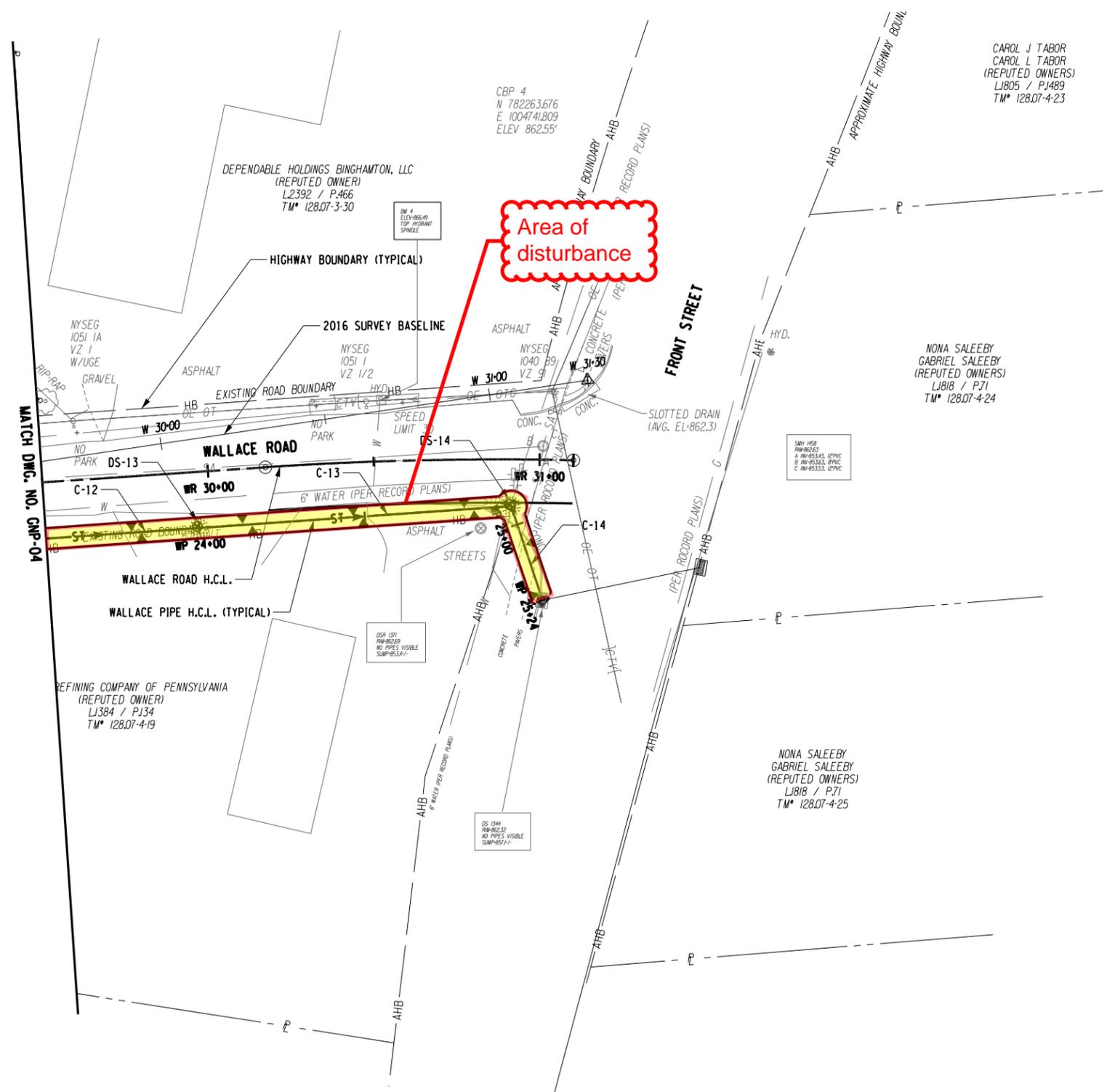
GENERAL PLAN
 WALLACE ROAD



 Woidt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-04
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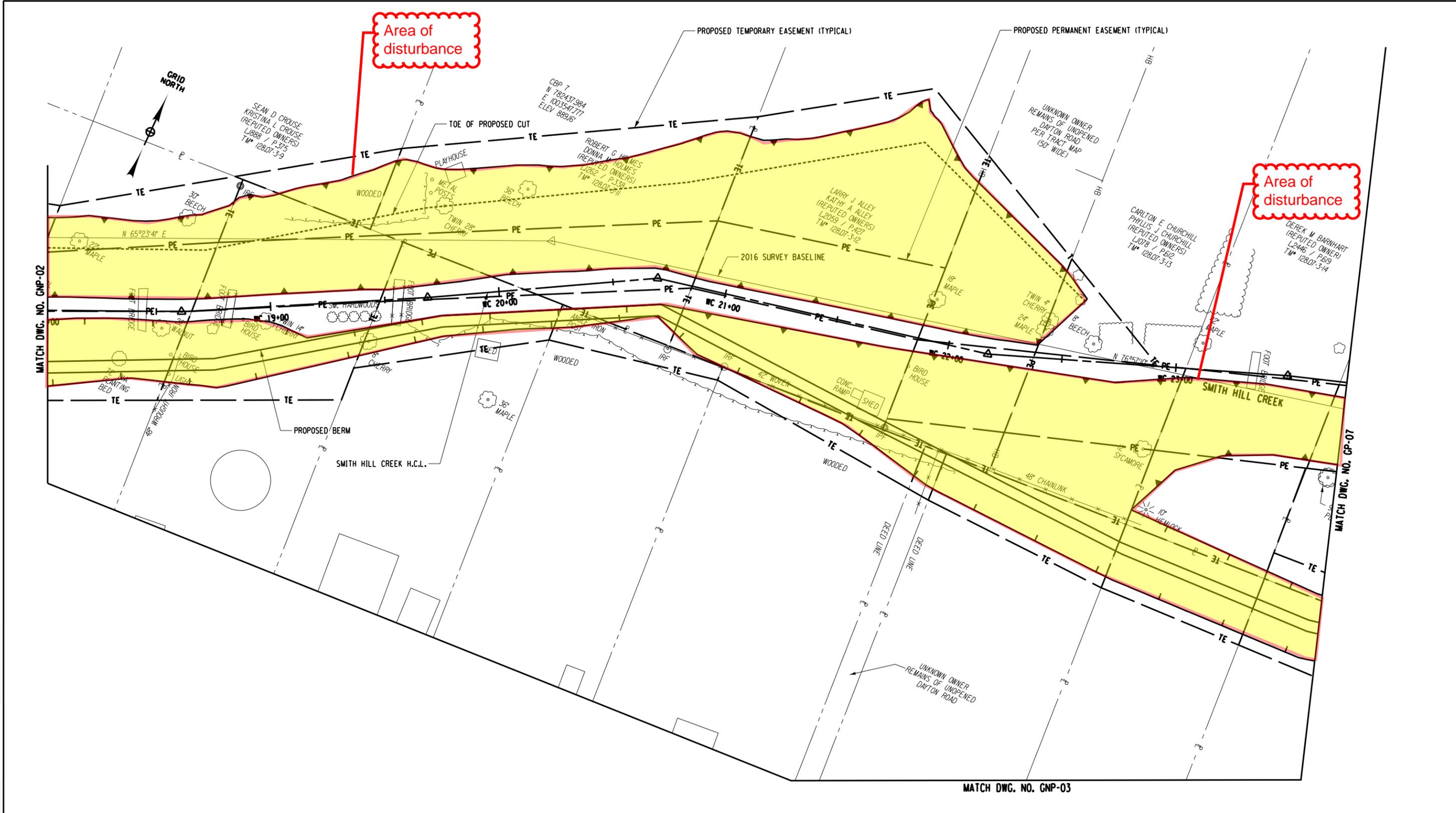
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 DESIGNED BY : SAS
 CHECKED BY : CJM
 DETAILED BY : SAS
 CHECKED BY : CJM



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN WALLACE ROAD	
 SCALE BAR	SCALE AS SHOWN
DATE NOVEMBER 2016	DRAWING NO. GNP-05 SHEET OF

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 MATCH DWG. NO. GNP-02
 MATCH DWG. NO. GP-07
 MATCH DWG. NO. GNP-03



Preliminary

20' 0 20' 40'

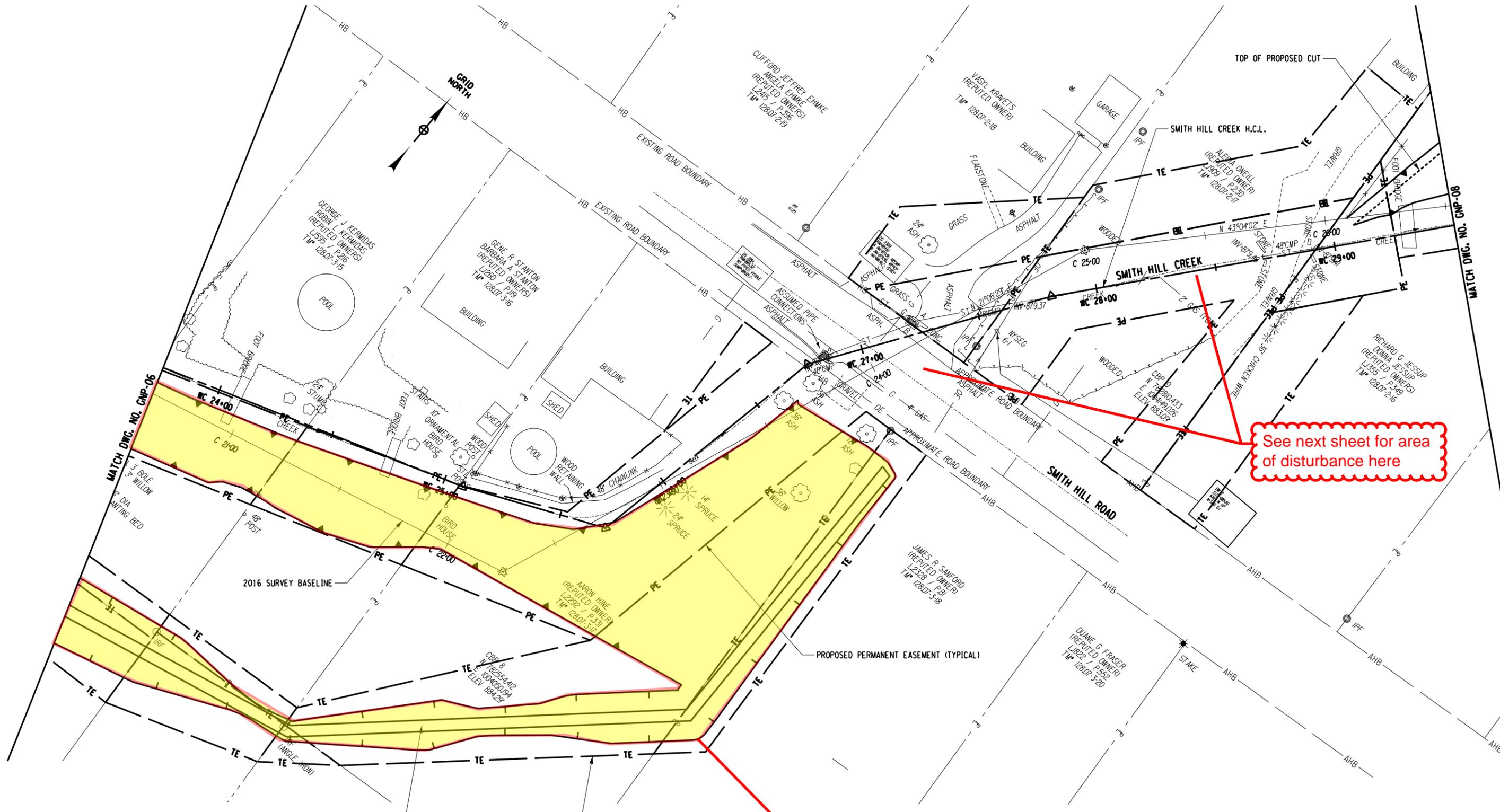
SCALE BAR

TOWN OF CHENANGO SMITH HILL CREEK
(WALLACE RD) STORMWATER MANAGEMENT SYSTEM

GENERAL PLAN
SMITH HILL CREEK

 Woidt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. GNP-06
		DATE NOVEMBER 2016	SHEET OF

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 CHECKED BY : CJM



Area of disturbance

See next sheet for area of disturbance here



TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM
 GENERAL PLAN
 SMITH HILL CREEK

		SCALE AS SHOWN	DRAWING NO. GNP-07
		DATE NOVEMBER 2016	SHEET OF

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IN CHARGE OF : **COM** DESIGNED BY : **BNS** CHECKED BY : **COM** DETAILED BY : **BNS** CHECKED BY : **COM**



CLIFFORD JEFFREY EHMKE
 ANGELA EHMKE
 (REPUTED OWNERS)
 L.2415 / P.396
 TM# 128.07-2-19

BEGIN PAVEMENT
 RESURFACING
 STA. X+XX.XX

END PAVEMENT RESURFACING
 BEGIN PAVEMENT RECONSTRUCTION
 STA. X+XX.XX

STRUCTURE OPENING BEGINS
 STA. X+XX.XX

STRUCTURE OPENING ENDS
 STA. X+XX.XX

END PAVEMENT RECONSTRUCTION
 BEGIN PAVEMENT RESURFACING
 STA. X+XX.XX

SILT FENCE
 ITEM 209.13
 (TYP.)

EXISTING &
 PROPOSED
 GRAVEL
 DRIVEWAY

Area of
 disturbance

SAW CUT PAVEMENT,
 ITEM 520.09000010
 IPF
 (1/2")

EXISTING STRUCTURE
 TO BE REMOVED,
 PAID UNDER ITEM
 206.01

STATION LINE, H.C.L., &
 § SMITH HILL ROAD

SMITH HILL ROAD

TO AIRPORT ROAD

TO NYS RT 11

APPROXIMATE
 HIGHWAY BOUNDARY
 (TYP.)

APPROXIMATE
 PROPOSED TE
 (TYP.)

APPROXIMATE LOCATION OF
 OVERHEAD UTILITIES

PROPOSED DRAINAGE STRUCTURES
 (SEE NOTE 2)

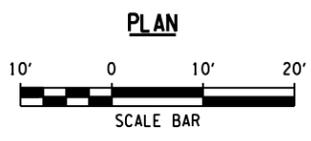
PROPOSED STRUCTURE
 4 SIDED CULVERT
 & CULVERT END SECTIONS

DUANE G FRASER
 (REPUTED OWNER)
 L.822 / P.552
 TM# 128.07-3-20

JAMES R SANFORD
 (REPUTED OWNER)
 L.2328 / P.81
 TM# 128.07-3-18

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING
 FOR BOX CULVERT.



NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.
- 2. FOR DRAINAGE STRUCTURE DETAILS SEE DWG. STX-XX.

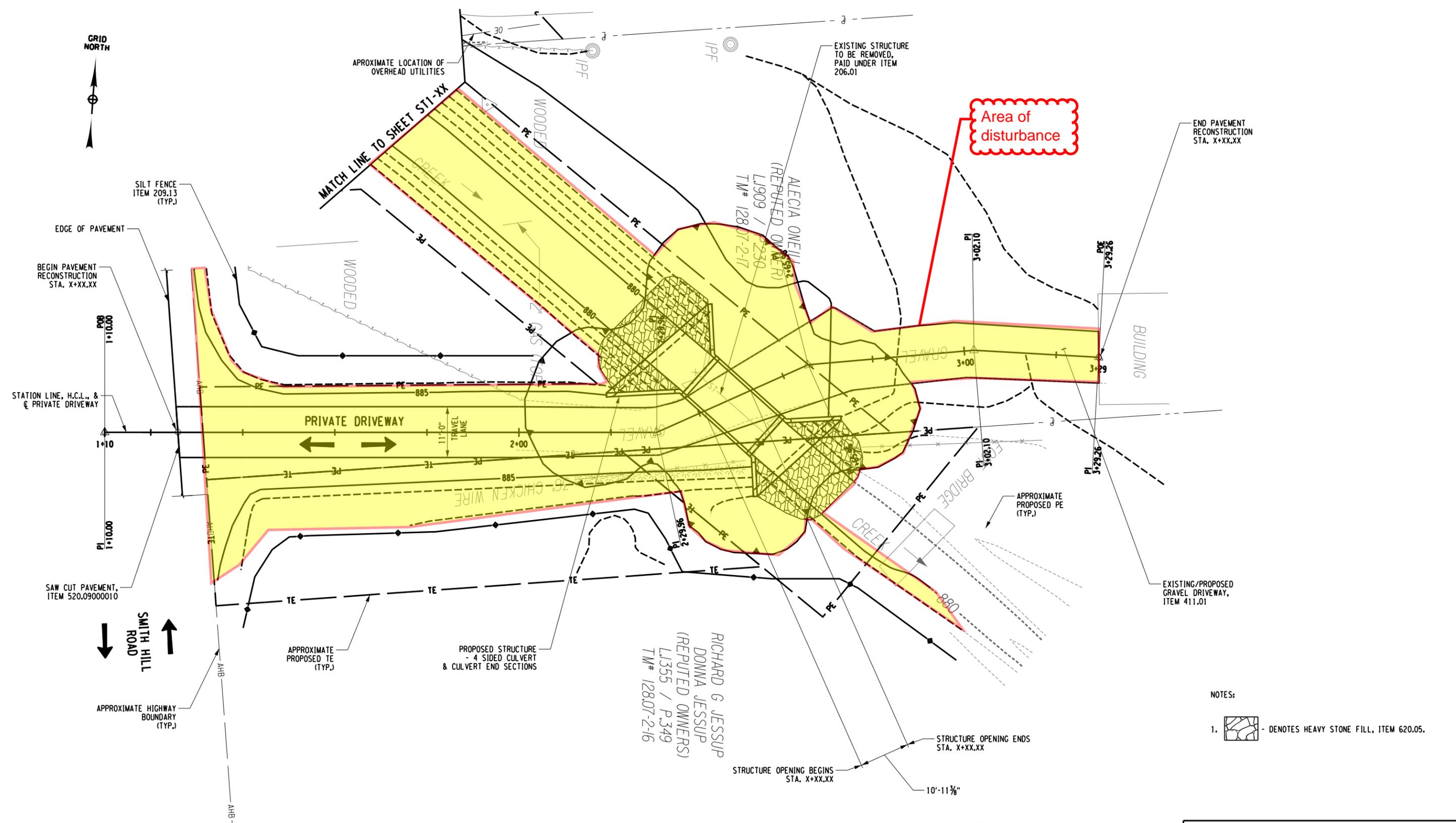
TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

SMITH HILL ROAD
 GENERAL PLAN

 W&D Woldt Engineering	 DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST1-XX
		DATE NOVEMBER 2016	SHEET XX OF

Preliminary

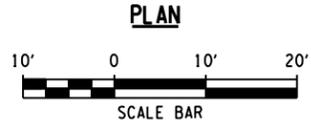
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 THIS IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
 IN CHARGE OF : GJM DESIGNED BY : BNS CHECKED BY : GJM
 DETAILED BY : BNS CHECKED BY : GJM



- NOTES:
1. DENOTES HEAVY STONE FILL, ITEM 620.05.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

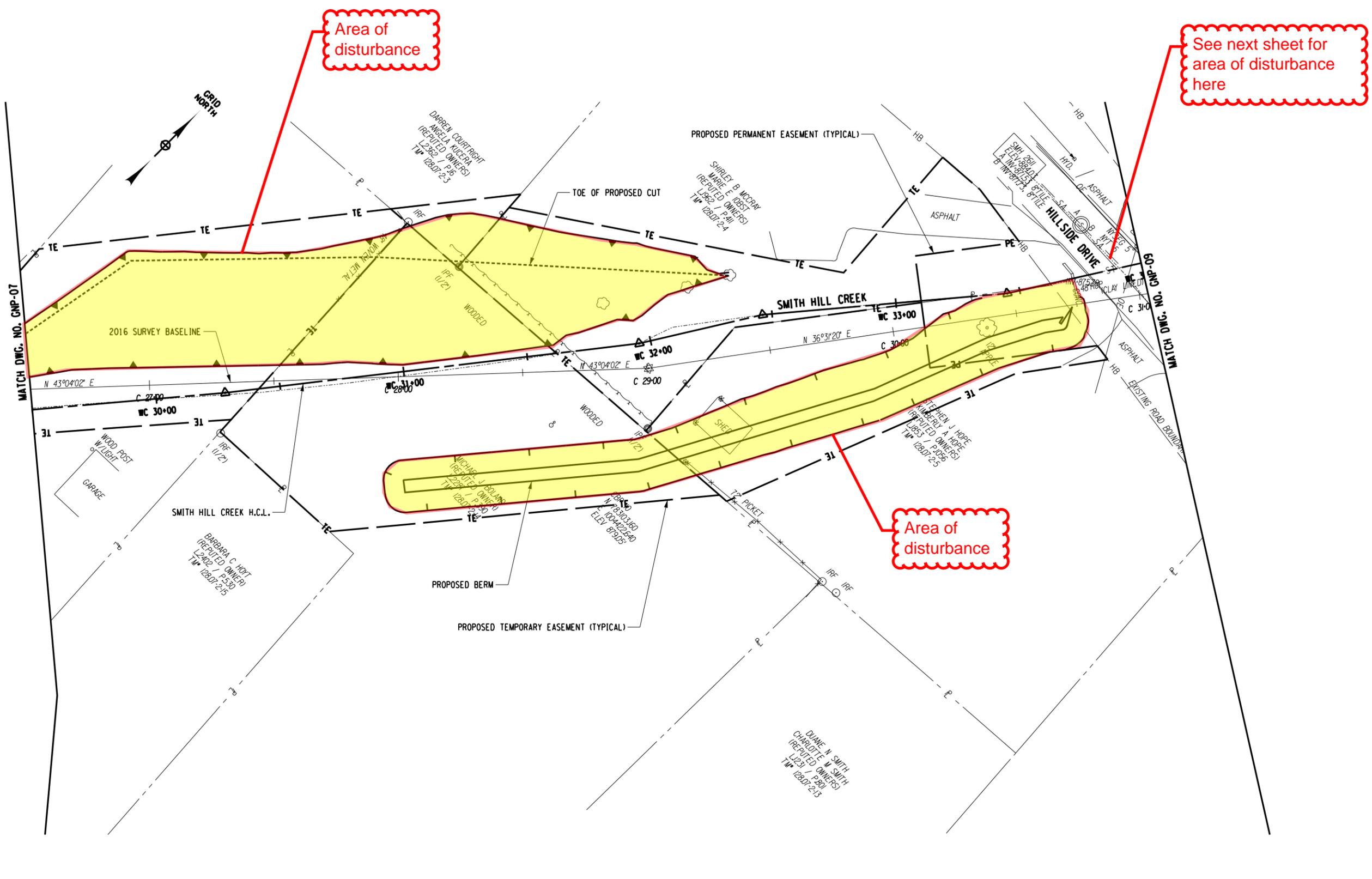
CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM
 SMITH HILL ROAD DRIVEWAY GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST2-XX
		DATE NOVEMBER 2016	SHEET XX OF



Area of disturbance

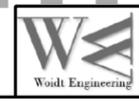
See next sheet for area of disturbance here

Area of disturbance

Preliminary



TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
SCALE AS SHOWN	DRAWING NO. GNP-08
DATE NOVEMBER 2016	SHEET OF



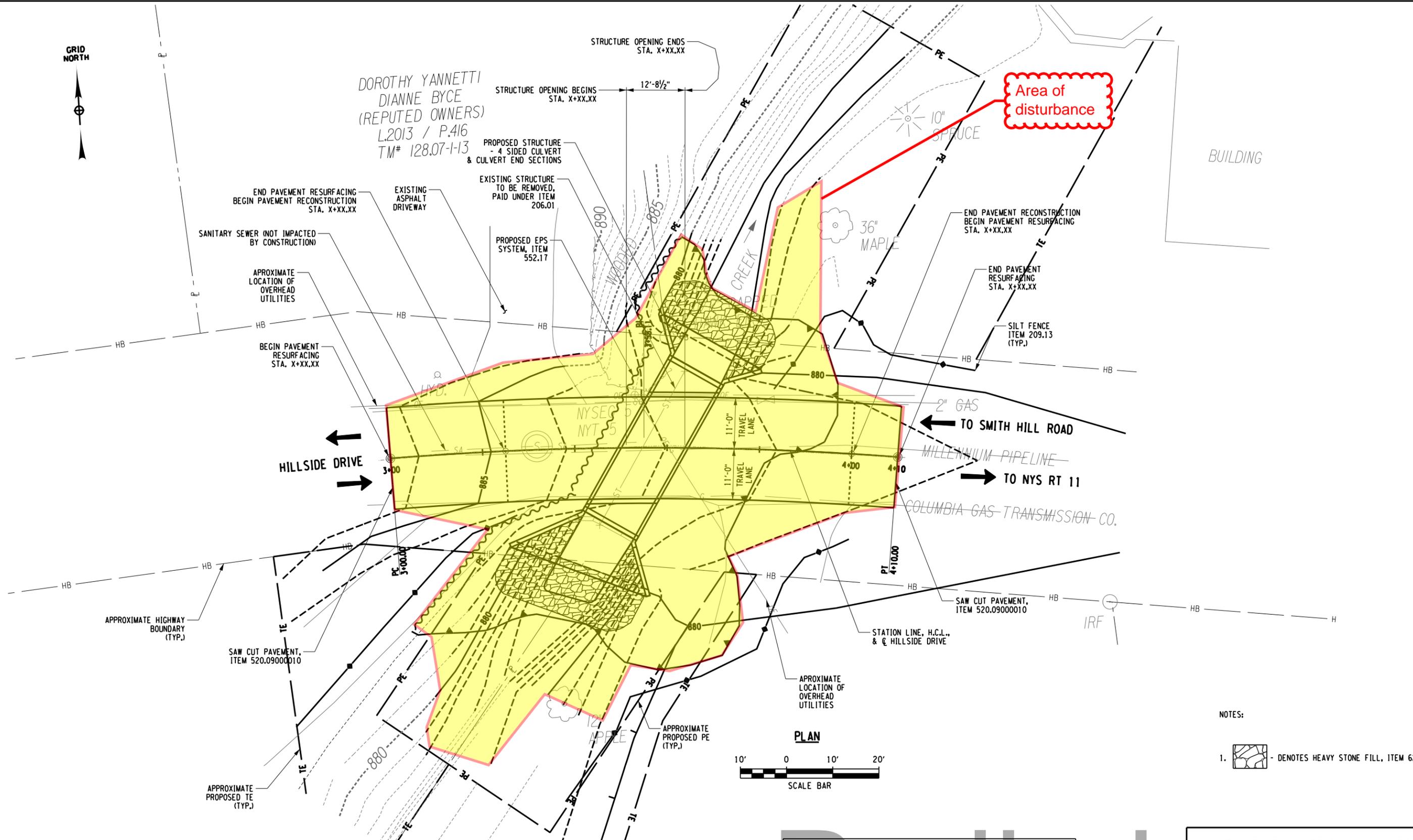
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 DESIGNED BY : BNS
 CHECKED BY : COM
 DETAILED BY : BNS
 CHECKED BY : COM

SHIRLEY B MCCRAY
 MARIE E IOBST
 (REPUTED OWNERS)
 L1962 / P.411
 TM# 128.07-2-4

STEPHEN J HOPE
 KIMBERLY A HOPE
 (REPUTED OWNERS)
 L1853 / P.056
 TM# 128.07-2-5

DOROTHY YANNETTI
 DIANNE BYCE
 (REPUTED OWNERS)
 L2013 / P.416
 TM# 128.07-1-13



Area of disturbance

BUILDING

HILLSIDE DRIVE

TO SMITH HILL ROAD

TO NYS RT 11

MILLENNIUM PIPELINE
 COLUMBIA GAS TRANSMISSION CO.

SAW CUT PAVEMENT, ITEM 520.09000010

STATION LINE, H.C.L., & C HILLSIDE DRIVE

PLAN



NOTES:

- 1. DENOTES HEAVY STONE FILL, ITEM 620.05.

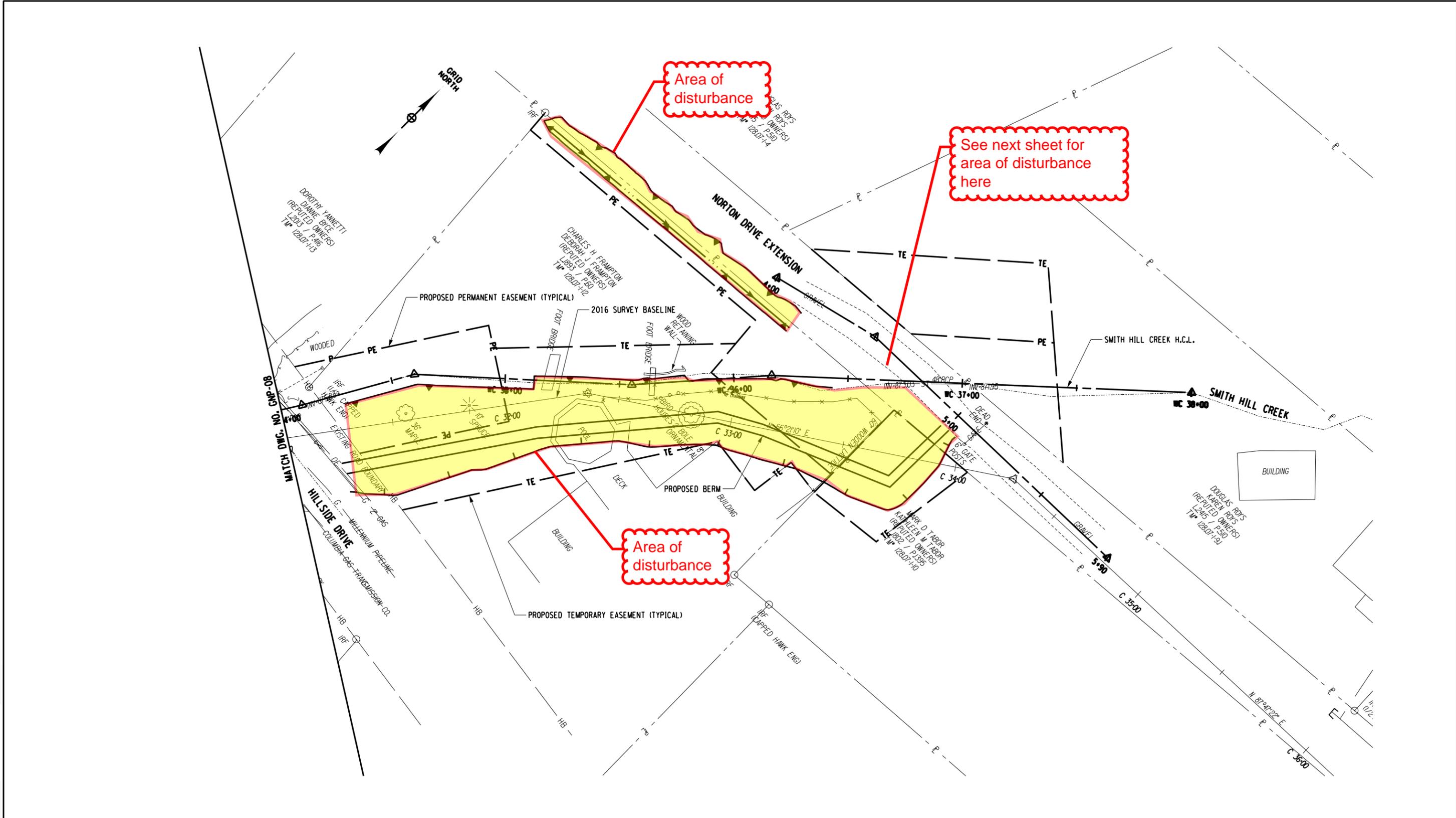
LOAD RATING		
LOADING	INVENTORY	OPERATING
LFD HS-20		
LRFR: HL-93		

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

HILLSIDE DRIVE
 GENERAL PLAN

 Woldt Engineering	 ENGINEERS, ARCHITECTS, & LAND SURVEYORS	SCALE AS SHOWN	DRAWING NO. ST3-XX
		DATE NOVEMBER 2016	SHEET XX OF



Area of disturbance

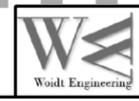
See next sheet for area of disturbance here

Area of disturbance

Preliminary



TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
GENERAL PLAN SMITH HILL CREEK	
SCALE AS SHOWN	DRAWING NO. GNP-09
DATE NOVEMBER 2016	SHEET OF



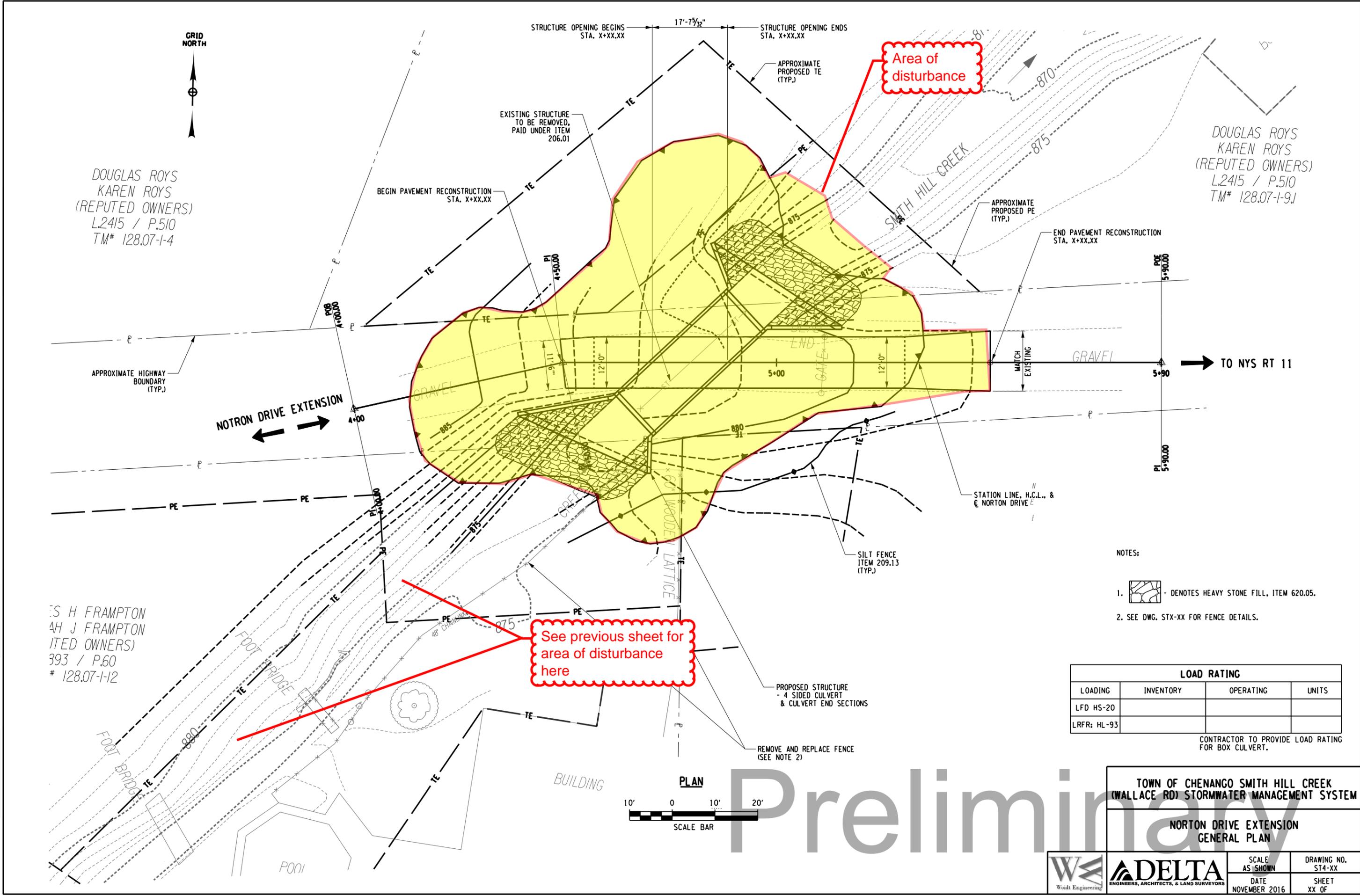
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DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-4

S H FRAMPTON
 AH J FRAMPTON
 (REPUTED OWNERS)
 393 / P.60
 # 128.07-1-12

DOUGLAS ROYS
 KAREN ROYS
 (REPUTED OWNERS)
 L.2415 / P.510
 TM# 128.07-1-9.1



Area of disturbance

See previous sheet for area of disturbance here

- NOTES:
-  DENOTES HEAVY STONE FILL, ITEM 620.05.
 - SEE DWG. STX-XX FOR FENCE DETAILS.

LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

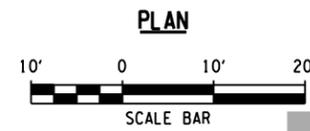
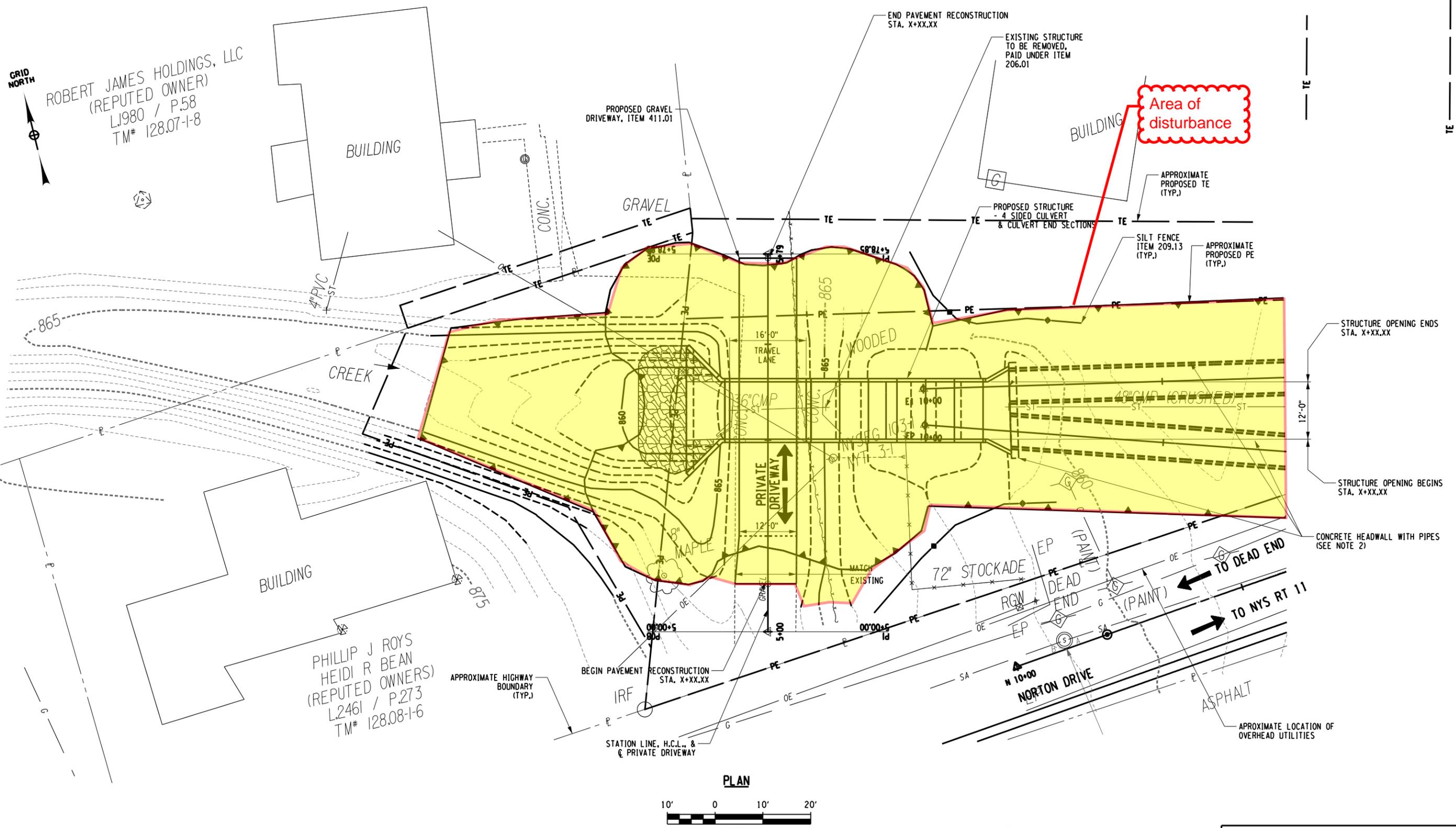
CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE EXTENSION
 GENERAL PLAN

		SCALE AS SHOWN	DRAWING NO. ST4-XX
		DATE NOVEMBER 2016	SHEET XX OF

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 DESIGNED BY : SAS
 CHECKED BY : CUM
 DETAILED BY : SAS
 CHECKED BY : CUM



LOAD RATING			
LOADING	INVENTORY	OPERATING	UNITS
LFD HS-20			
LRFR: HL-93			

CONTRACTOR TO PROVIDE LOAD RATING FOR BOX CULVERT.

- NOTES:
- DENOTES HEAVY STONE FILL, ITEM 620.05.
 - FOR HEADWALL AND PIPE DETAILS SEE DWG. STX-XX.

TOWN OF CHENANGO SMITH HILL CREEK
 (WALLACE RD) STORMWATER MANAGEMENT SYSTEM

NORTON DRIVE DRIVEWAY
 GENERAL PLAN

SCALE AS SHOWN	DRAWING NO. ST15-XX
DATE NOVEMBER 2016	SHEET XX OF

W E Woldt Engineering

DELTA ENGINEERS, ARCHITECTS, & LAND SURVEYORS

Preliminary

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 CHECKED BY : CJM

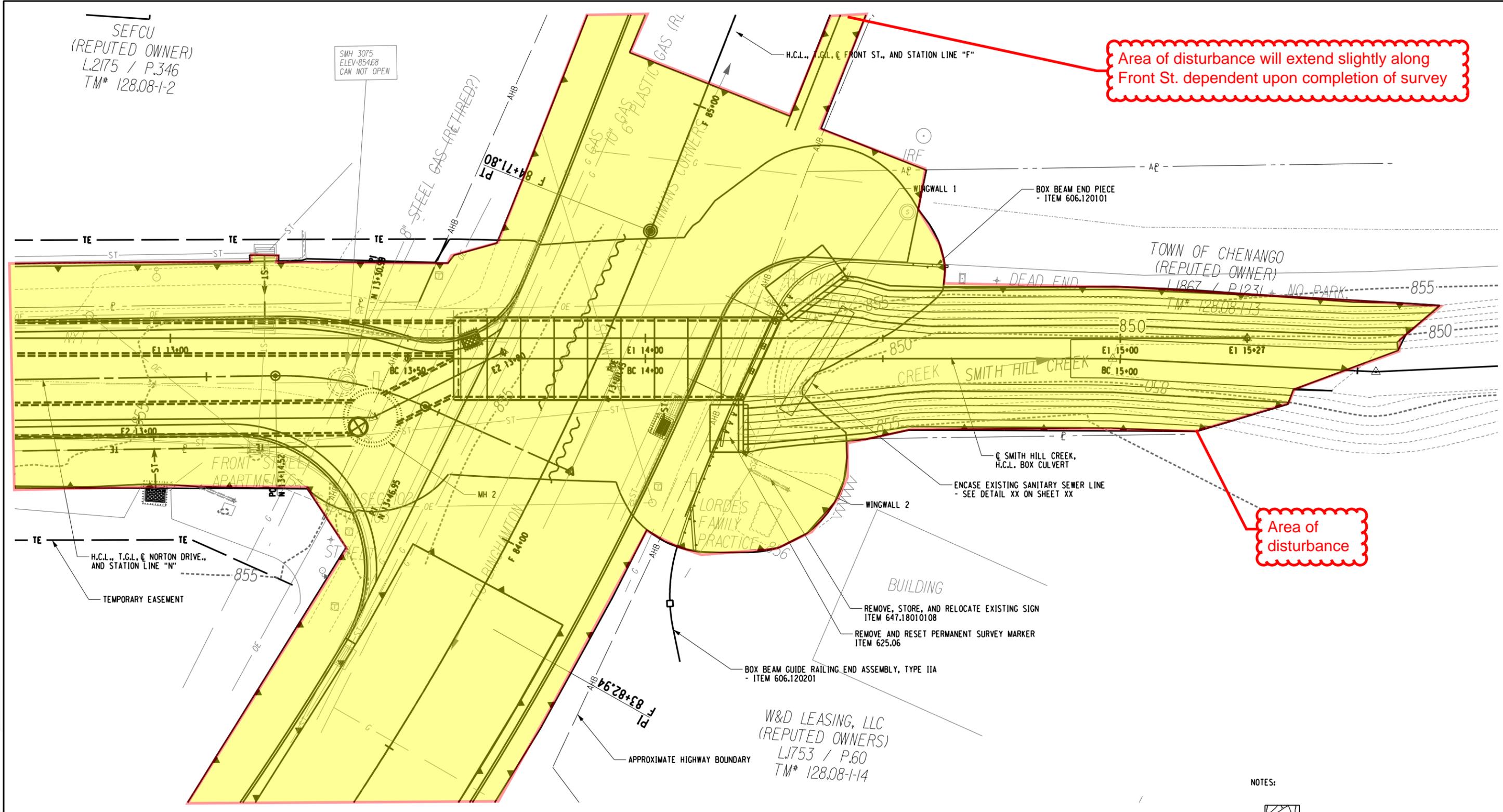
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 (REPUTED OWNER)
 L.2175 / P.346
 TM# 128.08-1-2

SMH 3075
 ELEV-85468
 CAN NOT OPEN

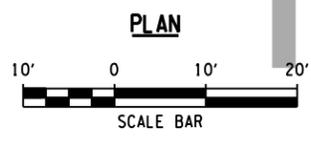
Area of disturbance will extend slightly along Front St. dependent upon completion of survey

Area of disturbance

Area of disturbance will extend slightly along Front St. dependent upon completion of survey

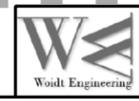


- NOTES:
1.  DENOTES HEAVY STONE FILL, ITEM 620.05.



Preliminary

TOWN OF CHENANGO SMITH HILL CREEK (WALLACE RD) STORMWATER MANAGEMENT SYSTEM	
FRONT STREET GENERAL PLAN	
SCALE AS SHOWN	DRAWING NO.
DATE NOVEMBER 2016	SHEET OF



Involved/Interested Agencies – Smith Hill Creek Project – (Broome County)

Involved

David Bimber, Regional Permit Administrator, Region 7
New York State Department of Environmental Conservation
615 Erie Blvd. West
Syracuse, NY 13204

Jack Williams, P.E., Regional Director
New York State Department of Transportation Region 9
44 Hawley Street
Binghamton, NY 13901

Margaret Crawford, Biologist
U.S. Army Corps of Engineers
Buffalo District - Regulatory Branch
7413 County House Road
Auburn, New York 13021

Interested

Sean J. Britton, NRP, CPH, Director
Broome County Health Department
255 Front Street
Binghamton, New York 13905

Frank Evangelisti, Director
Broome County Department of Planning and Economic Development
Edwin L. Crawford County Office Building, 5th Floor
60 Hawley Street
PO Box 1766
Binghamton, New York 13902

Jerry Marinich, Director
Broome County Office of Emergency Services
Public Safety Facility, Lower Level
153 Lt. VanWinkle Drive
Binghamton, NY 13905

Donald Benjamin, Director of Public Works
Town of Chenango
1529 State Route 12
Binghamton, NY 13901

Rhonda D. Milks, Clerk/Record Management Officer
Town of Chenango
1529 State Route 12
Binghamton, NY 13901

Michael Schnurbush, Chair
Town of Chenango
Environmental Review Board (ERB)
1529 State Route 12
Binghamton, NY 13901

Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic Preservation
625 Broadway, 2nd Floor
Albany, New York 12238

Larry Moss, Technical Specialist
Division for Historic Preservation
New York State Historic Preservation Office
Peebles Island Resource Center
P.O. Box 189
Waterford, NY 12188-0189

Mr. Richard Lord
Chief of Mitigation Programs & Agency Preservation Officer
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue
Bldg 7A, Floor 4
Albany NY 12242

Roger C. Sokol, Ph.D., Director
NYS Department of Health
Bureau of Water Supply Protection
Empire State Plaza
Corning Tower Rm. 1110
Albany, NY 12237

Beth Lucas, Senior Planner
Broome County Environmental Management Council
Edwin L. Crawford County Office Building, 5th Floor
60 Hawley Street, PO Box 1766
Binghamton, New York 13902

David Bimber, Regional Permit
Administrator, Region 7
New York State Dept. of Environmental
Conservation
615 Erie Blvd. West
Syracuse, NY 13204

Sean J. Britton, NRP, CPH, Director
Broome County Health Department
255 Front Street
Binghamton, New York 13905

Donald Benjamin, Director of Public
Works
Town of Chenango
1529 State Route 12
Binghamton, NY 13901

Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic
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625 Broadway, 2nd Floor
Albany, New York 12238

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Corning Tower Rm. 1110
Albany, NY 12237

Jack Williams, P.E., Regional Director
New York State Department of
Transportation Region 9
44 Hawley Street
Binghamton, NY 13901

Frank Evangelisti, Director
Broome County Dept. of Planning and Economic
Devl.
Edwin L. Crawford County Office Bldg, 5th Floor
60 Hawley Street, PO Box 1766
Binghamton, New York 13902

Rhonda D. Milks, Clerk/Record
Management Officer
Town of Chenango
1529 State Route 12
Binghamton, NY 13901

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New York State Historic Preservation Office
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Waterford, NY 12188-0189

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Council
Edwin L. Crawford County Office Bldg., 5th Floor
60 Hawley Street, PO Box 1766
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Buffalo District - Regulatory Branch
7413 County House Road
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Public Safety Facility, Lower Level
153 Lt. VanWinkle Drive
Binghamton, NY 13905

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1529 State Route 12
Binghamton, NY 13901

Mr. Richard Lord
Chief of Mitigation Programs & APO
NYS Division of Homeland Security & Emergency
Services
1220 Washington Avenue
Bldg 7A, Floor 4
Albany NY 12242

The ENB SEQRA Notice Publication Form - *Please check all that apply*

Deadline: Notices must be received by **6 p.m. Wednesday** to appear in the following Wednesday's ENB

- | | |
|---|--|
| <input type="checkbox"/> Negative Declaration - Type I | <input type="checkbox"/> Draft EIS |
| <input type="checkbox"/> Conditioned Negative Declaration | <input type="checkbox"/> with Public Hearing |
| <input type="checkbox"/> Draft Negative Declaration | <input type="checkbox"/> Generic |
| <input type="checkbox"/> Positive Declaration | <input type="checkbox"/> Supplemental |
| <input type="checkbox"/> with Public Scoping Session | <input type="checkbox"/> Final EIS |
| | <input type="checkbox"/> Generic |
| | <input type="checkbox"/> Supplemental |

DEC Region # _____ County: _____ Lead Agency: _____

Project Title:

Brief Project Description: The action involves . . .

Project Location (include street address/municipality):

Contact Person: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ E-mail: _____

For Draft Negative Declaration / Draft EIS: Public Comment Period ends: ____ / ____ / ____

For Public Hearing or Scoping Session: Date: ____ / ____ / ____ Time: ____: ____ am/pm

Location:

A hard copy of the DEIS/FEIS is available at the following locations:

The online version of the DEIS/FEIS is available at the following publically accessible web site:

For Conditioned Negative Declaration: In summary, conditions include: