Science & Advanced Manufacturing Park (STAMP)

Offsite Wastewater

Joint Permit Application

Pre-construction Notification

SUBMITTED BY:

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Appendix A – Joint Permit Application Form
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1.0 Introduction

1.1 Applicant Information

This Joint Application Pre-Construction Notification (PCN) is being submitted on behalf of Genesee County Industrial Development Agency d/b/a Genesee County Economic Development Center and its affiliate, Genesee Gateway Local Development Corporation (collectively "the Applicant"), 99 Medtech Drive, Suite 106, Batavia, NY 14420, (585) 343-4866. The CEO is Mr. Steve Hyde. The Applicant's contact is Mr. Mark Masse, Senior, VPO. The Applicant's agent on this project is Sheila Hess of CC Environment & Planning at 23 Jackson Street, Batavia, NY 14020, (585) 219-4030. Engineering, planning and counsel provided by CPL and Phillips Lytle LLP. The Joint Application Permit Form for this project is located in Appendix A, "Joint Permit Application Form."

1.2 Project Location

The Science & Technology Advanced Manufacturing Park (STAMP) Offsite Wastewater Project (Project, Project Site, Project Area, Proposed Development) involves approximately 47,000 linear feet connecting a waste water treatment facility (WWTF) at the STAMP Site in the Town of Alabama to a discharge to Oak Orchard Creek located north of Shelby and South of Medina. The line will run along Crosby Road, Lewiston Road (NYS Rt. 77), and Alleghany Road (NYS Rt. 63). The Project Map is located in Appendix B. The approximate midpoint location of the Offsite Wastewater Project is where Oak Orchard Creek crosses under Route 63: 43.136715° N/-78.390168° W.

1.3 Project Description

Over the past several years, the Applicant has been developing the STAMP Site as a planned advanced manufacturing campus on approximately 1,262 acres in the Town of Alabama. At full build out, STAMP will be a high technology campus with the potential to accommodate over 6 million square feet of advanced technology manufacturing and related uses and to create up to 10,000 jobs.

The purpose of the proposed Project is to allow for the transport of up to 6 million gallons per day (MGD) of combined sanitary and process wastewater effluent generated, recycled, and treated at the STAMP Site to the proposed discharge location at Oak Orchard Creek. The proposed action is needed to accommodate discharge of treated sanitary effluent and treated industrial process wastewater generated at the Site. Design details for the proposed action are provided in Appendix B. The treated sanitary and industrial process wastewater is referred to as "effluent" throughout the remainder of this document. All proposed temporary and permanent disturbances to wetlands and streams are described and analyzed in this document and are shown on the plan sheets in Appendix B.

The Project involves the installation of 18-inch, 20-inch, and 24-inch diameter sanitary force main, main line valves, maintenance manholes, metering manholes, and Force Main markers. The new Force Main would convey effluent from the WWTF located at the utility area within the STAMP Site along Crosby Road, Lewiston Road (NYS Route 77), Alleghany Road (NYS Route 63) and to a discharge point in Oak Orchard Creek. Offsite Wastewater development requires approximately eight (8) acres of disturbance to construct and will result in temporary impacts to aquatic resources including .02 acre of wetland and stream (federal jurisdiction) and 0.28 acre of state 100' adjacent area. The Offsite Wastewater has been designed to minimize these impacts to the greatest extent practicable while still enabling the GCEDC to develop the necessary infrastructure to support development at the STAMP Site.

2.0 Existing Conditions

The project area traverses primarily open space and rural land cover including farmland, forests, wetlands, sing-family residences, and small hamlets. Approximately 2.5 miles of the project area passes along the west side of Route 63 through a forested wetland and wetland/grassland complex that is part of Iroquois National Wildlife Refuge (NWR).

The majority of the project area is upland consisting of previously disturbed areas including road shoulders, mowed lawn and mowed lawn with trees, cropland, excavated ditches, culverts, and brushy cleared land. A smaller portion of the project area, primarily at stream and wetland crossings and adjacent to Iroquois NWR, consists of intermittent and perennial streams and wetlands (shallow emergent marsh, common reed marsh, shrub swamp, and red maple hardwood swamp). Ecological communities referenced above are designated in accordance with community descriptions in Edinger et al. 2014 *Ecological Communities of New York State* (http://www.dec.ny.gov/docs/wildlife_pdf/ecocomm2014.pdf).

2.1 Aquatic Resources

The project area is located in both the Middle Tonawanda Watershed, Hydrologic Unit Code (HUC): 041201040304 and Oak Orchard Watershed, HUC: 041300010403. These watersheds are dominated by agriculture (approximately 50% of land use cover) interspersed with forest and forested wetlands and non-forested wetlands. Less than 5% of the watersheds are developed. Within these watersheds, the project area crosses multiple mapped streams and intersects with several mapped state and federal wetlands and unmapped wetlands. The Crossings Report and Delineation in Appendix C provide additional details.

Wetland and stream resources within the AOI were documented during multiple field visits. Investigation extended to all waters that are potentially regulated by state and federal agencies. The delineation was conducted in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1, and the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (v. 2.0), dated January 2012. Delineation tasks included review

of onsite conditions, field delineation, and sub-meter GPS survey of delineation. The delineation summary in Appendix C includes delineation maps, photographs, and datasheets.

A simple visual rapid assessment was conducted for observed wetlands within or immediately adjacent to the project area. The function of the wetlands and streams is generally impaired; fragmentation, lack of a vegetated buffer and an abundance of loose soil around drainages introduces sediment and increased water turbidity in wetlands and associated streams. Historic alterations, ongoing traffic disturbance, and proximity to roadways have had significant negative impacts on the condition and composition of wetland plant communities. Disturbance and impacts include evidence of historic wetland drainage, fill, conversion of wetland types, fragmentation, and widespread dominance by invasive species. Project area wetlands are characteristic of highly disturbed systems. Many functions and services provided by less disturbed wetland systems have been degraded or lost within the project area. One notable exception to this general characterization of aquatic resources within the project area is Oak Orchard Creek and the associated wetlands to the south of Oak Orchard Creek's intersection with Route 63. This wetland area is owned by USFWS (Iroquois NWR) and is part of a large complex system that includes riparian, emergent, and forested wetlands. While evidence of disturbance exists, particularly within the project area along Route 63, the system as a whole is high quality, federally protected, and linked to state-mapped wetlands and significant natural communities with potential occurrence of rare, threatened, and endangered species. Wetlands within the project area are fragmented edges of the larger system. The right of way of Route 63 is narrow in this section with little opportunity for restricting potential impacts to existing fill. Appendix C provides photo documentation of this area.

3.0 Details of Proposed Project

The proposed sanitary force main will be installed by open cut method for lawn and field areas and by directional drill method under roadways, wetlands, and streams. The force main will be installed with a 5' minimum depth of cover for all areas except under stream channels where it will be installed 6' below the channel bottom (Appendix B and C).

The project area of disturbance totals approximately eight acres. Construction is anticipated to occur July 2021 through March 2022. The project will be constructed in accordance with state and local regulatory requirements. Prior to the start of any construction, an individual Storm Water Pollution Prevention Plan (SWPPP) in accordance with the requirements of the New York State Environmental Conservation Law will be developed to obtain coverage under the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharge from Construction Activities (GP-0-10-001). The plan will be prepared following the *New York State Standards and Specifications for Erosion and Sediment Control* and the *NYSDEC Stormwater Design Manual*.

3.1 Aquatic Resource Impacts

As stated above, a directional drill method under streams and wetlands will be used to avoid and minimize impacts to aquatic resources. It is anticipated that approximately .02 acre of temporary impact will be realized to a potentially federally jurisdictional wetland/stream due to open cut of W6/S6. Appendix C provides stream and wetland crossing photos and design details. The wetland complex adjacent to Route 63 on Iroquois NWR is approximately 15,000 linear feet. As discussed, it is not practical to complete this crossing using a single directional drilling setup. Based on existing soils conditions and the physical limitations with the directional drill equipment, each directional drill set up should be no longer than 1,000 feet each. Therefore, multiple (approximately 27) separate directional drill setups will be used to complete installation through Iroquois NWR. Each directional drilling set up will require a staging area where the directional drilling machine and other equipment will be located to complete the drilling process. The staging areas have exterior dimensions of approximately 18' x 58'and will be located in areas to help minimize the impact to the Iroquois NWR, such as existing driveways and high elevation points. The force main will be installed by directional drill method between each staging area. Based on approximately 27 staging areas and an area of disturbance of 1,200 square feet each, the total disturbance through this area is approximately 0.74 acre. This includes approximately 0.09 acre impact to state and federal jurisdictional wetland and 0.17 acre of temporary impacts to state 100' adjacent area.

Table 1 provides a list of unavoidable temporary impacts to aquatic resources and, where applicable, state adjacent area.

STAMP Wastewater Wetland and Stream Impact Table

Identifier	Project Area	Installation Method	Wetland/Stream Temporary Impact (SF)	Buffer Zone Temporary Impact (SF)
W-6 S-6	STAMP Wastewater	Open Cut	928	0
S-7	STAMP Wastewater	HDD	0	860
S-8a and 8b	STAMP Wastewater	HDD	0	696
S-16	STAMP Wastewater	HDD	0	0
S-14 S-15	STAMP Wastewater	HDD	0	0
W-7	STAMP Wastewater	HDD	0	0
S-13	STAMP Wastewater	HDD	0	0
W-8a S-11	STAMP Wastewater	HDD	0	800
W-8b W-8c	STAMP Wastewater	HDD	0	400
W-8d S-12	STAMP Wastewater	HDD	0	3386
W-9	STAMP Wastewater	HDD	0	0
S-10	STAMP Wastewater	HDD	0	0
W-10 S-9	STAMP Wastewater	HDD/Staging Areas	3705	2696
S-17	STAMP Wastewater/Oak Orchard Discharge	HDD	0	0

Total = 13,471 SF

Unavoidable temporary wetland impacts will be mitigated by restoring these areas to previous conditions. In addition to restoration of temporary disturbance areas, construction of the Force Main through INWR includes a proposal to remove two unused access roads and culverts west of Route 63 within the proposed ROW and to restore these areas to wetland habitat if desired by USFWS. See Appendix B for locations on the NEPA Environmental Assessment Figure 7 and Plan Sheet in Appendix B. Removal of unused access roads would involve removal of the existing culvert pipe, excavation of all existing, imported earthen material to original grade, disposal of excess material to an appropriate offsite location. The disturbed area would then be restored to wetland by recontouring soil and replacing topsoil to blend in with the surrounding grade and seeding with a native wetland seed mix appropriate to the adjacent wetland type.

3.2 Threatened and Endangered Species

Threatened and endangered species information for the project area was obtained from the NYSDEC Nature Explorer, USFWS, and NYNHP. In addition, a mussel survey was conducted as required by NYSDEC at the Oak Orchard discharge location. See Appendix D for consultation documentation.

A report provided from the USFWS ECOS-IPaC website for the proposed project area in Genesee and Orleans Counties, New York, did not identify any federally-listed species, proposed, or candidate species and no designated or proposed critical habitats. Consultation with the NYNHP and NYSDEC resulted in a list of state-listed species that have been recorded in the general vicinity of the project area including seven state-threatened avian species: the pied-billed grebe *(Podilymbus podiceps)*, sedge wren *(Cistothorus platensis)*, Henslow's sparrow *(Ammodramus henslowii),* bald eagle (*Haliaeetus leucocephalus*), northern harrier (*Circus cyaneus*), upland sandpiper (*Bartramia longicauda*), and least bittern (*Ixobrychus exilis*), as well as the endangered short-eared owl (*Asio flammeus*), bog turtle (*Clemmys muhlenbergii*), and eastern massasauga rattlesnake (*Sistrurus catenatus*). A mussel survey was conducted in September 2020. All species were evaluated for potential impacts associated with the proposed project as summarized below.

Pied-Billed Grebe

The pied-billed grebe is a small waterbird whose range extends from the southern U.S. to Central America and parts of South America. The pied-billed grebe migrates to New York State sometime between late March and mid-April and remains through the fall, heading south between September and November. Pied-billed grebes rely on large wetlands with "hemi-marsh" (an even mixture of emergent vegetation and open water) conditions that provide sufficient cover for nesting and are deep enough for underwater foraging. Breeding grounds for the species are scattered across New York State, with confirmed sightings of the species in the general vicinity of the proposed action – near the Genesee/Orleans/Niagara County border – during the Breeding Bird Atlas surveys conducted in 1980-1985 as well as 2000-2005. Historic declines of the species resulted from habitat loss and residual effects of DDT and other pesticide exposure. Wetland conservation and restoration efforts have helped to boost species numbers in recent years (NYSDEC, 2017b).

The pied-billed grebe is recorded as a species known to nest on or near the INWR (USFWS, 2007). A field review conducted by CC Environment identified no potentially suitable habitat for the pied-billed grebe within the survey corridors; however, diverse and high-quality habitats are available throughout the TWMA and INWR.

Sedge Wren

The sedge wren is a small wren that is considered a short-distance migrant. Its range extends from the southeastern U.S. to the north central U.S. and central Canada. The sedge wren breeds in wet meadows or hayfields dominated by sedges and grasses. It is sensitive to changes in water level and vegetation, and within New York State its status has been elevated from a species of special concern to a threatened species. Breeding Bird Atlas survey records identify probable sedge wrens breeding in the general vicinity of the proposed action – near the Genesee County/Orleans County/Niagara County border – during 1980-1985 and both probable and possible breeding of the species during 2000-2005, with no confirmed breeding in Genesee or Orleans Counties during either survey. The primary threat to the sedge wren is loss of wetland breeding habitat (NYSDEC, 2017c).

The sedge wren is recorded as a species known to nest on or near the INWR (USFWS, 2007). A field review conducted by CC Environment identified no potentially suitable habitat for the sedge wren within the survey corridors; however, diverse and high-quality habitats are available throughout the TWMA and INWR and this species has been documented immediately adjacent to the proposed project area in the large grassland area on and adjacent to INWR in the vicinity of Oak Orchard Ridge Road – see map in Appendix D.

Henslow's Sparrow

The Henslow's sparrow breeds from South Dakota, Minnesota, Wisconsin, Michigan, Ontario, and Massachusetts south to Kansas, Missouri, Illinois, Kentucky, West Virginia, and North Carolina and locally in Texas. In New York, populations are very localized and found primarily in the central and western parts of the state. Henslow's sparrow habitat consists of fallow, weedy, often moist fields and meadows. Breeding occurs in a variety of habitats with tall, dense grass and herbaceous vegetation, including upland weedy hayfields, pastures without shrubs, wet meadows, drier areas of salt marshes, grassy fields, and sedge covered hillsides with recently planted pine seedlings. The species will also use lightly grazed pastures. The Henslow's sparrow population has been in decline for decades; the major threat to the species is a loss of breeding habitat as agricultural grasslands are developed or abandoned to subsequently revert back to forests. Breeding Bird Atlas survey records identify one probable breeding near the western edge of the Genesee/Orleans County border in 1980-1985 and two probable breeding observations near the Genesee County/Orleans County/Niagara County border during 2000-2005 (NYSDEC, 2017d).

The Henslow's sparrow is recorded as a species known to nest on or near the INWR (USFWS, 2017). A field review conducted by CC Environment identified no potentially suitable habitat for the Henslow's sparrow within the survey corridors; however, diverse and high-quality habitats are available throughout the TWMA

and INWR and this species has been documented immediately adjacent to the proposed project area in the large grassland area on and adjacent to INWR in the vicinity of Oak Orchard Ridge Road – see map in Appendix D.

Bald Eagle

In addition to being protected as a State-listed species, the bald eagle is protected through the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) of 1940. The MBTA, 916 U.S.C. 703-711, provides protection for 1,007 migratory bird species. The MBTA regulates impacts to these species such as direct mortality, habitat degradation, and/or displacement of individual birds. The MBTA defines "taking" to include by any means or in any manner, any attempt at hunting, pursuing, wounding, killing, possessing, or transporting any migratory bird, nest, egg, or part thereof, except when specifically permitted by regulations. The BGEPA, 16 U.S.C. 668-668d, as amended, was written with the intent to protect and preserve bald and golden eagles, both of which are treated as species of concern within the Department of the Interior. BGEPA prohibits, except under certain specified conditions, the taking, possession, or commerce of bald and golden eagles. Under the BGEPA, to "take" includes to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest, or disturb, wherein "disturb" means to agitate or bother a bald or golden eagle to the degree that it interferes or interrupts normal breeding, feeding or sheltering habitats, causing injury, death, or nest abandonment.

The bald eagle is found throughout North America, in every state except Hawaii, and in Canada. Eagles prefer undisturbed areas near large lakes and reservoirs, marshes and swamps, or stretches along rivers where they can find open water and fish. In the last century, reproductive impairment from pesticides, especially DDT, and heavy metals caused virtual extirpation of the bald eagle from New York and many other areas. Since the ban on DDT in 1972, eagles and other birds of prey are again producing young. Habitat destruction through logging and development along watercourses still poses a substantial threat to the species.

Bald eagles mate for life and return to nest in the general area from which they fledged. Once a pair selects a nesting territory, they use it for the rest of their lives. Nests are usually located high in tall, live white pine trees near water. Nests are reused and added to each year, often becoming more than eight feet deep, six feet across, and weighing hundreds of pounds.

Four pairs of bald eagles maintain nests on the INWR. None of these are in proximity to the proposed project and all are well outside the 660-foot buffer required by regulatory agencies.

Northern Harrier

The northern harrier breeds in North America from northern Alaska and Canada south to central and southern California, Mexico and portions of the southern US, excluding the southeast region. Wintering occurs from southern Canada to northern South America. Communal flocks roost on the ground during winter and migratory periods in agricultural fields, abandoned fields and salt marshes. The northern harrier breeds in

both freshwater and brackish marshes, tundra, fallow grasslands, meadows and cultivated fields. It nests in flimsy structures made of sticks and grass on the ground. The species experienced significant population declines in the 1950s due to losses of breeding habitat and the effects of pesticides (NYSDEC, 2017e).

The northern harrier is recorded as a species known to nest and winter on or near the INWR (USFWS, 2007) and has been documented immediately adjacent to the proposed project area in the large grassland area on and adjacent to INWR in the vicinity of Oak Orchard Ridge Road – see map in Appendix D.

Upland Sandpiper

The upland sandpiper is a shorebird species that requires grassland habitat for survival. Population declines are a result of habitat loss across New York and the northeast due to development, vegetative succession, and reduction in pasture/hayfields (NYSDEC 2021a). Like the Henslow's sparrow, upland sandpipers breed in large, contiguous tracts of grasslands. The upland sandpiper returns to breeding grounds in New York by late April. Breeding season extends from April to July 15. This species has been recorded in grasslands on INWR but has not been confirmed on INWR for several years.

Least Bittern

The least bittern is a small member of the heron family. It is a secretive waterbird found in emergent marsh habitat (cattail marsh). They nest in late May in small groups in nest constructed of cattail leaves and situated over the water in dense stands of emergent vegetation. Least bitterns range from southern Canada south through the U.S. and east to the Atlantic Coast. Regional declines have been documented over the last 10 years in the Great Lakes basin (NYSDEC 2021b).

The least bittern is recorded as a species known to nest on or near the INWR (USFWS, 2007). A field review conducted by CC Environment identified no potentially suitable habitat for the least bittern within the survey corridors; however, diverse, and high-quality habitats are available throughout the TWMA and INWR.

Short-eared Owl

Short-eared owls are a medium sized owl found in grasslands and marshes. They breed March through June in ground nests. Short-eared owls are widely distributed, found on every continent. New York is the southern edge of the owl's breeding range and they are more common during the winter months (NYSDEC 2021c).

The short-eared owl may utilize habitats found on or near INWR including immediately adjacent to the proposed project area in the large grassland area on and adjacent to INWR in the vicinity of Oak Orchard Ridge Road – see map in Appendix D.

Bog Turtle

The bog turtle is New York's smallest turtle and one of the smallest turtles in the world. The species is found in the eastern U.S., scattered in disjunct colonies from New York and Massachusetts south to southern Tennessee and Georgia. This is a semi-aquatic species, preferring habitat with cool, shallow, slow-moving water, deep soft muck soils and tussock-forming herbaceous vegetation. In New York, the bog turtle is found in open, early successional types of habitats such as wet meadows or open calcareous boggy areas generally dominated by sedges or sphagnum moss. Threats to the species include habitat loss and degradation and illegal collecting. In New York, development and natural succession are the major threat to bog turtle habitat (NYSDEC, 2017f).

The bog turtle is also a federally-listed threatened species, and the USFWS identifies both Genesee and Orleans Counties as locations where the bog turtle is known or believed to occur (USFWS, 2017b). However, it should be noted that the species was not identified as listed for the proposed project area in the USFWS ECOS-IPaC query. Therefore, it is presumed that the species is not located within the proposed project area. A desktop and field habitat review identified a low potential for suitable habitat and low likelihood of species occurrence within the survey corridors.

Eastern Massasauga

The eastern massasauga rattlesnake is a small snake – averaging two feet in length – with a thick body, heart-shaped head, and vertical pupils. This species is believed or known to occur in two counties in New York: Onondaga and Genesee, as well as nine other U.S. States and one Canadian province. Eastern massasauga rattlesnakes hibernate in the winter and are active in the spring, summer, and fall. During the active seasons, the snake generally uses higher, drier habitats, open canopy wetlands, and adjacent upland areas; however, this varies regionally, and individual snakes can be found in a wide variety of habitats, including many types of wetlands. During the winter, the species moves to lower, wet areas for overwintering or hibernation. Habitat loss and fragmentation are the primary threats to the species. Additional risk factors include disease and climate change (USFWS, 2016b).

It should be noted that while there is a presumed extant population of the eastern massasauga rattlesnake in Genesee County (USFWS, 2016c), the species was not identified as listed for the proposed project area in the USFWS ECOS-IPaC query. Therefore, it is presumed that the species is not located within the proposed project area. A field review identified a low potential for suitable habitat and low likelihood of species occurrence within the survey corridors.

Mussels

Riveredge Environmental completed a mussel survey on September 27, 2020 in Oak Orchard Creek at the discharge location. See report in Appendix D. Mussels were surveyed using timed-search surveys in the area of direct impact (ADI) which consisted of a permanent 6.1 m easement for the installation of a discharge pipe

at the point where it meets the creek. Also surveyed were a lateral buffer of 10 m wide adjacent to the ADI, a mixing zone (MZ, 10 m in length) just downstream from the ADI, an upstream buffer (USB, 10 m in length), and a downstream buffer (DSB, 100 m in length). All survey cells were 10 m x 10 m except for the ADI which was 6.1 m x 10 m. A total of 13 cells were searched. Only one cell had live mussels. This cell was the most downstream cell of the DSB. The mussels found in this DSB cell was Giant Floater, *Pyganodon grandis.* Three live individuals and one recently dead (with fresh tissue attached to the shell) were found in the cell *Pyganodon grandis* has a rank of S4. This species is not protected in the State of New York and it is not a Species of Greatest Conservation Need (SGCN); it is not tracked by New York Natural Heritage (NYNHP).

Potential Impacts

Earthwork associated with construction activities undertaken for the proposed project has the potential to impact individuals of the seven state-listed threatened avian species (pied-billed grebe, sedge wren, Henslow's sparrow, bald eagle, least bittern, upland sandpiper, and northern harrier) and one endangered species (short-eared owl), if present. Indirect impacts to these species can be caused by noise associated with construction activities (such as clearing, grading, and excavation), which may lead to dispersal to habitats of lower noise levels. The potential for other construction-related impacts, including temporary habitat avoidance, temporary habitat loss, dust generation, exposure to contaminants, and/or injuries due to construction vehicle collisions with wildlife, also exists.

The segment of the proposed project area within the INWR is located within a roadway corridor (NYS Route 63) that experiences average daily traffic volumes of just under 5,000 vehicles with a posted speed limit of 55 mph. The combined and contiguous INWR/TWMA/Oak Orchard Management Areas provide approximately 19,000 acres of protected wetland habitats as well as a variety of other habitat types. Based on the abundant availability of suitable habitat outside of the roadway corridors, it is anticipated that species sensitive to noise would not be nesting immediately adjacent to the roadway corridors and are not likely to be affected by the proposed construction activities; however, it is possible that individual birds may be affected.

In order to further minimize the potential for impacts to state-listed avian species, construction within the INWR will be started after July 15 except for in the grassland area (see map in Appendix D) which will be timed for construction to begin after August 15. Construction will be scheduled to be completed within the grassland area before November 1. This schedule would effectively avoid the breeding and nesting seasons for breeding bird species and the wintering period for northern harrier and short-eared owl. If circumstances require work extend in this area beyond November 1, construction activity will be conducted during daylight hours only to avoid impacts to foraging owls and staging areas will be restricted to roadsides and existing driveways. A monitor will be provided if required for any potential construction on INWR in the grassland areas during the winter months. Following construction, temporary impact areas and associated habitats would be immediately and fully restored to their pre-existing conditions. No impacts are anticipated to State-listed avian species resulting from operation of the proposed Force Main. Based on the potential for temporary

construction impacts to individuals, the proposed project alternatives may affect, but are not likely to adversely affect, the state-listed threatened pied-billed grebe, least bittern, sedge wren, Henslow's sparrow, bald eagle, upland sandpiper, or Northern Harrier, nor the state-listed endangered short-eared owl. This determination is appropriate when the proposed project is likely to cause insignificant, discountable, or wholly beneficial effects to individuals of listed species.

No effects are anticipated to the State-listed endangered bog turtle or eastern massasauga rattlesnake, neither of which is anticipated to be present in the proposed project area. This determination is appropriate when the proposed project would not directly or indirectly affect (negatively or beneficially) individuals or designated critical habitats. Please refer to Table 2 below.

Table 2 - State Listed Species Impacts/Mitigation Summary

Species	State Listing Status	Description of Activities with Potential Impacts to Habitat or Individuals	Mitigation Measures	Effect Determination
Pied-billed grebe	Threatened	Potential for temporary habitat avoidance, habitat loss, noise disturbance, dust generation, exposure to contaminants, and/or injuries due to construction vehicle collisions during construction on the INWR/TWMA lands. Once the system is operational, no impacts are anticipated.	Route siting along previously disturbed roadway corridors to minimize habitat loss and fragmentation. HDD installation to minimize wetland habitat disturbances in INWR. Construct within INWR after July 15 except in grassland area where construction will start after August 15 and end by November 1st. Avoidance of construction during breeding and nesting season for all species AND wintering for northern harrier and short-eared owl; full	The proposed project may affect, but are not likely to adversely affect, the pied-billed grebe, sedge wren, Henslow's sparrow, upland sandpiper, least bittern, bald eagle, short-eared owl, and northern harrier.
Sedge wren	Threatened			
Henslow's sparrow	Threatened			
Upland sandpiper	Threatened			
Bald eagle	Threatened			
Northern harrier	Threatened			
Short-eared owl	Endangered	INWR/TWMA lands. Once the system is operational, no impacts are anticipated.		

Table 2 - State Listed Species Impacts/Mitigation Summary				
Species	**State Listing Status**	**Description of Activities with Potential Impacts to Habitat or Individuals**	**Mitigation Measures**	**Effect Determination**
			restoration temporary impact areas within INWR immediately following construction.	
Bog turtle	Endangered	None anticipated – habitat and species not expected to be present.	None	No effect
Eastern massasauga	Endangered			No effect

3.3 Cultural Resources and Potential Impacts

The New York State Historic Preservation Office (SHPO) reviewed the results of a Phase I cultural resource investigation conducted within the project area in accordance with Section 106 of the National Historic Preservation Act of 1966. Based upon this review, the New York SHPO provided a letter stating that the project will have No Adverse Impact on archeological or historical resources. See Appendix D for SHPO documentation.

4.0 References

New York State Department of Environmental Conservation (NYSDEC), 2017b. Pied-billed Grebe Fact Sheet. Accessed on April 21, 2017 at: http://www.dec.ny.gov/animals/85203.html

New York State Department of Environmental Conservation (NYSDEC), 2017c. Sedge Wren Fact Sheet. Accessed on April 21, 2017 at: http://www.dec.ny.gov/animals/59556.html

New York State Department of Environmental Conservation (NYSDEC), 2017d. Henslow's Sparrow Fact Sheet. Accessed on April 21, 2017 at: http://www.dec.ny.gov/animals/59554.html

New York State Department of Environmental Conservation (NYSDEC), 2017e. Northern Harrier Fact Sheet. Accessed on February 13, 2021 at: http://www.dec.ny.gov/animals/7090.html

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Appendix A - Joint Permit Application Form

NEW YORK STATE | Department of Environmental Conservation | Office of General Services | Department of State

US Army Corps of Engineers

JOINT APPLICATION FORM

For Permits for activities activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. **Applications To:**

>NYS Department of Environmental Conservation ☑ Check here to confirm you sent this form to NYSDEC.

Check all permits that apply:

- ☑ Stream Disturbance
- ☐ Excavation and Fill in Navigable Waters
- ☐ Docks, Moorings or Platforms
- ☐ Dams and Impoundment Structures
- ☐ 401 Water Quality Certification
- ☑ Freshwater Wetlands
- ☐ Tidal Wetlands
- ☐ Wild, Scenic and Recreational Rivers
- ☐ Coastal Erosion Management
- ☐ Water Withdrawal
- ☐ Long Island Well
- ☐ Incidental Take of Endangered / Threatened Species

>US Army Corps of Engineers ☑ Check here to confirm you sent this form to USACE.

Check all permits that apply: ☑ Section 404 Clean Water Act ☐ Section 10 Rivers and Harbors Act

Is the project Federally funded? ☐ Yes ☑ No

If yes, name of Federal Agency:

General Permit Type(s), if known:

Preconstruction Notification: ☑ Yes ☐ No

>NYS Office of General Services ☐ Check here to confirm you sent this form to NYSOGS.

Check all permits that apply:

- ☐ State Owned Lands Under Water
- ☐ Utility Easement (pipelines, conduits, cables, etc.)
- ☐ Docks, Moorings or Platforms

>NYS Department of State ☐ Check here to confirm you sent this form to NYSDOS.

Check if this applies: ☐ Coastal Consistency Concurrence

2. **Name of Applicant**

Genesee Gateway Local Dev Corp/Genesee County EDC

Taxpayer ID (if applicant is NOT an individual)

Mailing Address: 99 MedTech Drive, Suite 106

Post Office / City: Batavia

State: NY

Zip: 14020

Telephone: 585-343-4866

Email: mmasse@gcedc.com

Applicant Must be (check all that apply): ☐ Owner ☑ Operator ☐ Lessee

3. **Name of Property Owner (if different than Applicant)**

Multiple

Mailing Address

Post Office / City

State

Zip

Telephone

Email

For Agency Use Only Agency Application Number:

4. **Name of Contact / Agent**

Sheila S. Hess

Mailing Address	Post Office / City	State	Zip
23 Jackson Street	Batavia	NY	14020

Telephone 585-219-4030 Email shess@ccenvironment.com

5. **Project / Facility Name**

STAMP Offsite Wastewater and Force Main

Property Tax Map Section / Block / Lot Number: See location map attached

Project Street Address, if applicable	Post Office / City	State	Zip
n/a		NY	

Provide directions and distances to roads, intersections, bridges and bodies of water

Beginning at the WNY STAMP project in Town of Alabama running north along Route 63 to just south of Medina in Orleans County.

☑ Town ☐ Village ☐ City

County	Stream/Waterbody Name
Genesee/Orleans	Oak Orchard Creek

Alabama and Shelby

Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:

Latitude: 43.136715 ° ' " Longitude: -78.390168 ° ' "

6. **Project Description:** Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:

Install Force Main to serve STAMP site with discharge of treated effluent at Oak Orchard. See attached PCN

b. Description of current site conditions:

Roadside

c. Proposed site changes:

Installation of buried Force Main

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):

Temporary disturbance from open cut and HDD stations

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:

See attached PCN

f. Is tree cutting or clearing proposed? ☑ Yes If Yes, explain below. ☐ No

Timing of the proposed cutting or clearing (month/year): July - March

Number of trees to be cut: up to 10 Acreage of trees to be cleared:

g. Work methods and type of equipment to be used:

See attached PCN

h. Describe the planned sequence of activities:

See attached PCN

i. Pollution control methods and other actions proposed to mitigate environmental impacts:

SWPPP and Frac Out plan - see attached PCN

j. Erosion and silt control methods that will be used to prevent water quality impacts:

SWPPP

k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:

HDD and timing of construction - see attached PCN

l. Proposed use: ☐ Private ☐ Public ☑ Commercial

m. Proposed Start Date: July 2021 Estimated Completion Date: March 2022

n. Has work begun on project? ☐ Yes If Yes, explain below. ☑ No

o. Will project occupy Federal, State, or Municipal Land? ☑ Yes If Yes, explain below. ☐ No

ROW through INWR along Route 63

p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:

None

q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?

☑ Yes If Yes, list below. ☐ No

NYSDOT, DOH review, Local Planning Review

7. **Signatures.**

Applicant and Owner (If different) must sign the application. If the applicant is the landowner, the **landowner attestation form** can be used as an electronic signature as an alternative to the signature below, if necessary. Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than $10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant | Date: 11/6/2020

Applicant Must be (check all that apply): ☐ Owner ☑ Operator ☐ Lessee

Printed Name: Mark Masse | Title: Senior VPO

Signature of Owner (if different than Applicant) | Date:

Printed Name: | Title:

Signature of Contact / Agent | Date: 11/6/20

Printed Name: Sheila S. Hess | Title: CEO/Principal Ecologist

For Agency Use Only **DETERMINATION OF NO PERMIT REQUIRED**

Agency Application Number: _____

_____ (Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name: _____ Title: _____

Signature: _____ Date: _____

Appendix B – Plan Set and Access Road Removal Wetland Restoration

CONSTRUCTION DRAWINGS FOR:

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

JULY 2020

TOWNS OF ALABAMA & SHELBY
GENESEE & ORLEANS COUNTIES, NEW YORK

GENESEE COUNTY GCEDC Economic Development Center

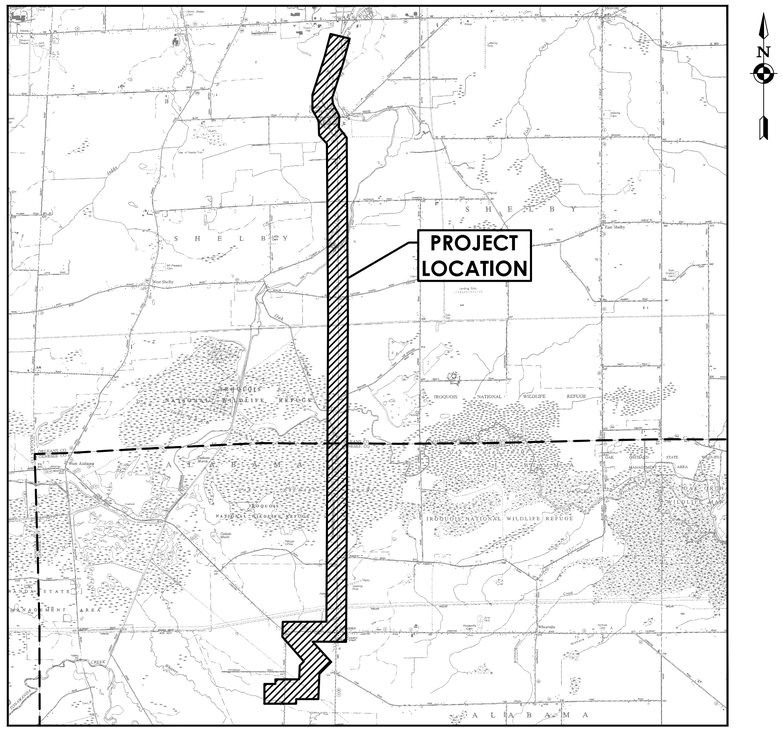
GENESEE GATEWAY LOCAL DEVELOPMENT

CHIEF EXECUTIVE OFFICER
STEVEN G. HYDE

CHAIRMAN
PAUL BATTAGLIA

VICE CHAIRMAN
PETER ZELIFF

MEMBERS
CRAIG YUNKER
MATTHEW GRAY
TODD BENDER
AMY VANDERHOFF
ANDREW YOUNG



LOCATION PLAN
SCALE: 1" = 5,000'

DRAWING INDEX

DWG. NO.	SHEET TITLE
G-01	GENERAL NOTES & LEGEND
G-02	SHEET LAYOUTS
S-01	UTILITY ACCESS ROAD PLAN AND PROFILE STA. U10+00 TO U17+00
S-02	CROSBY ROAD PLAN AND PROFILE STA. C48+00 TO STA. C54+00
S-03	STAMP MAIN ACCESS ROAD PLAN AND PROFILE STA. M10+00 TO STA. M18+50
S-04	STAMP MAIN ACCESS ROAD PLAN AND PROFILE STA. M18+50 TO STA. M27+00
S-05	FUTURE BYPASS ROAD PLAN AND PROFILE STA. F0+00 TO STA. F6+50
S-06	FUTURE BYPASS ROAD PLAN AND PROFILE STA.F6+50 TO STA. F13+50
S-07	FUTURE BYPASS ROAD PLAN AND PROFILE STA. F13+50 TO STA. F21+00
S-08	FUTURE BYPASS ROAD PLAN AND PROFILE STA. B27+00 TO STA. B18+50
S-09	FUTURE BYPASS ROAD PLAN AND PROFILE STA.B18+50 TO STA. 11+50
S-10	FUTURE BYPASS ROAD PLAN AND PROFILE STA. B11+50 TO STA. B4+50
S-11	FUTURE BYPASS ROAD PLAN AND PROFILE STA. B4+50 TO STA. B0+00
S-12	LEWISTON ROAD PLAN AND PROFILE STA. L121+00 TO STA. L129+50
S-13	LEWISTON ROAD PLAN AND PROFILE STA. L129+50TO STA. L137+50
S-14	LEWISTON ROAD PLAN AND PROFILE STA. L137+50 TO STA. L145+50
S-15	LEWISTON ROAD AND BACKLOTS PLAN STA. BL10+00 TO STA. BL17+00
S-16	LEWISTON ROAD AND BACKLOTS PROFILE STA. BL10+00 TO STA. BL17+00
S-17	ALLEGANY ROAD PLAN AND PROFILE STA. A178+00 TO STA. A183+50
S-18	ALLEGANY ROAD PLAN AND PROFILE STA. A186+50 TO STA. A192+00
S-19	ALLEGANY ROAD PLAN AND PROFILE STA. A192+00 TO STA. A200+50
S-20	ALLEGANY ROAD PLAN AND PROFILE STA. A200+50 TO STA. A209+00
S-21	ALLEGANY ROAD PLAN AND PROFILE STA. A209+00 TO STA. A217+50
S-22	ALLEGANY ROAD PLAN AND PROFILE STA. A217+50 TO STA. A226+00
S-23	ALLEGANY ROAD PLAN AND PROFILE STA. A226+00 TO STA. A234+50
S-24	ALLEGANY ROAD PLAN AND PROFILE STA. A234+50 TO STA. A243+00
S-25	ALLEGANY ROAD PLAN AND PROFILE STA. A243+00 TO STA. A251+50
S-26	ALLEGANY ROAD PLAN AND PROFILE STA. A251+50 TO STA. A260+00
S-27	ALLEGANY ROAD PLAN AND PROFILE STA. A260+00 TO STA. A268+50
S-28	ALLEGANY ROAD PLAN AND PROFILE STA. A268+50 TO STA. A277+00
S-29	ALLEGANY ROAD PLAN AND PROFILE STA. A277+00 TO STA. A285+50
S-30	ALLEGANY ROAD PLAN AND PROFILE STA. A285+50 TO STA. A294+00
S-31	ALLEGANY ROAD PLAN AND PROFILE STA. A294+00 TO STA. A302+50
S-32	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A302+50 TO STA. A311+00
S-33	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A311+00 TO STA. A319+50
S-34	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A319+50 TO STA. A328+50
S-35	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A328+50 TO STA. A336+50
S-36	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A336+50 TO STA. A345+00
S-37	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A345+00 TO STA. A353+50
S-38	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A353+50 TO STA. A362+00
S-39	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A362+00 TO STA. A370+50
S-40	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A370+50 TO STA. A379+00
S-41	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A379+00 TO STA. A387+50
S-42	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A387+50 TO STA. A396+00
S-43	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A396+00 TO STA. A404+50
S-44	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A404+50 TO STA. A413+00
S-45	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A413+00 TO STA. A421+50
S-46	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A421+50 TO STA. A430+00
S-47	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A430+00TO STA. A438+50
S-48	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A438+50 TO STA. A447+00
S-49	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A447+00 TO STA. A455+50
S-50	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A455+50 TO STA. A464+00
S-51	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A464+00 TO STA. A472+50
S-52	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A472+50 TO STA. A481+00
S-53	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A481+00 TO STA. A489+50
S-54	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A489+50 TO STA. A498+00
S-55	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A498+00 TO STA. A506+00
S-56	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A506+00 TO STA. A514+00
S-57	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A514+00 TO STA. A522+00
S-58	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A522+00 TO STA. A530+50
S-59	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A530+50 TO STA. A538+50
S-60	SOUTH GRAVEL ROAD PLAN AND PROFILE STA. A538+50 TO STA. A547+00
S-61	SOUTH GRAVEL ROAD PLAN AND PROFILE DISCHARGE
D-01	FORCE MAIN DETAILS
D-02	MISCELLANEOUS DETAILS
D-03	MISCELLANEOUS DETAILS
D-04	MISCELLANEOUS DETAILS
D-05	OUTFALL STRUCTURE DETAILS
D-06	PUMP STATION DETAILS
MPT-01	MAINTENANCE & PROTECTION OF TRAFFIC NOTES & DETAILS
MPT-02	MAINTENANCE & PROTECTION OF TRAFFIC NOTES & DETAILS
MPT-03	MAINTENANCE & PROTECTION OF TRAFFIC NOTES & DETAILS

CPL IS RESPONSIBLE FOR THE DESIGN OF THIS PROJECT. ANDREW KOSA, P.E. IS THE DESIGNER AND IS FAMILIAR WITH NYSDOT STANDARDS AND REQUIREMENTS AND SHALL BE CONTACTED AT (800) 274-9000 TO RESOLVE ISSUES OR PROBLEMS DURING CONSTRUCTION. ALL REVISIONS AFFECTING THE STATE RIGHT-OF-WAY, INCLUDING REVISIONS NECESSARY DUE TO FIELD CONDITIONS, SHALL BE APPROVED BY THE NYSDOT.

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
ARCHITECTURE ■ ENGINEERING ■ PLANNING

DATE 10/21/2020

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Cover\Cover_STAMP offsite_Shelby.dwg
Date last accessed: 10/21/2020 10:09 AM
Plotted By: Nicole Cullen
Date last plotted: 10/28/2020 9:06 AM

Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Details\01 G-01_general notes.dwg Plotted By: Nicole Cullen Date last plotted: 10/28/2020 9:07 AM Date last accessed: 8/19/2020 11:46 AM

SANITARY SEWER GENERAL NOTES:

1. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDEC, NYSDOT, GCDOH, OCDOH, OSHA, GENESEE COUNTY, ORLEANS COUNTY, US FISH AND WILDLIFE SERVICE AND LOCAL COMMUNITY REQUIREMENTS.
2. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION COMPILED BY THE THE ENGINEER FROM DRAWINGS OF RECORDS AND INFORMATION FURNISHED BY THE VARIOUS UTILITIES, WITH FIELD CHECKING WHERE NECESSARY AND POSSIBLE. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND MAY BE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND LOCATED PRIOR TO CONSTRUCTION. NO CONSTRUCTION EXCAVATION, BORING, OR BLASTING SHALL BE DONE WITHOUT CERTIFICATION OF THE DEPTH AND LOCATION OF UTILITIES. CALL DIG SAFELY NEW YORK (UFPO) AT 1-(800)-962-7962 AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
3. THE APPROXIMATE LOCATION OF THE PROPOSED UTILITIES ARE INDICATED ON THE PLANS, HOWEVER THE ACTUAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF THE UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
4. HIGHWAY DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION. THE ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
5. SAFE AND CONTINUOUS THROUGH TRAFFIC AND INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
6. THE OWNER WILL OBTAIN ALL NECESSARY EASEMENTS.
7. THE CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF ANY APPLICABLE EASEMENTS.
8. THE CONTRACTOR SHALL LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR REESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
9. ALL ASPHALT DRIVES CROSSED BY THE SANITARY SEWER IMPROVEMENTS SHALL BE SAW CUT AT THE LIMIT OF THE DISTURBED AREA OR AS A MINIMUM 5 FEET BEYOND THE CENTERLINE OF THE SANITARY SEWER LOCATION AND RESURFACED TO THE EDGE OF PAVEMENT.
10. ALL CONCRETE SIDEWALKS CROSSED BY THE SANITARY SEWER IMPROVEMENTS SHALL BE SAW CUT AT A SCORED JOINT OR REMOVED TO A CONSTRUCTION JOINT. REPLACE SIDEWALKS PER NYSDOT STANDARD SPECIFICATIONS.
11. THE CONTROL OF EROSION AND SEDIMENT ORIGINATING FROM CONSTRUCTION OPERATIONS IS CONSIDERED A CRITICAL RESPONSIBILITY OF THE CONTRACTOR. EROSION CONTROL DEVICES SHALL BE ESTABLISHED PRIOR TO COMMENCING WORK. THE ENGINEER WILL BE THE FINAL JUDGE OF THE ADEQUACY OF CONTRACTOR'S EROSION AND SEDIMENT CONTROL AND MAY SUSPEND WORK UNTIL ADEQUATE CONTROL IS ATTAINED.
12. ALL EXISTING UTILITY LINES AND SERVICE LATERALS NEAR OR CROSSING THE NEW SANITARY SEWER SHALL BE PROTECTED, PRESERVED AND SUPPORTED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
13. UTILITY POLES SHALL BE SUPPORTED, WHERE NECESSARY, AT NO ADDITIONAL COST TO THE OWNER.
14. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL TREES, FENCES AND OTHER OBSTACLES WITHIN THE ROW AND EASEMENT.
15. CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED TREE EXPERT TO REMOVE, WHERE NECESSARY, BRANCHES WHICH INTERFERE WITH THE CONSTRUCTION OPERATIONS, OR REPAIR TREES HAVING SUFFERED DAMAGE BY CONSTRUCTION ACTIVITIES. COST TO BE INCLUDED IN THE VARIOUS ITEMS BID OF THE CONTRACT.
16. TO PROTECT NEW OR EXISTING WORK, SHEETING OR SHORING (IF REQUIRED DURING CONSTRUCTION) SHALL BE PROVIDED AT NO COST TO THE OWNER.
17. WHEREVER MAILBOXES, POSTS, FENCES, SHRUBBERY, ETC. ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THEY SHALL BE REMOVED AND RESET AS ORDERED BY THE ENGINEER. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS OF THE CONTRACT.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF EXCAVATED MATERIAL FROM THE SITE.
19. THE CONTROL OF DUST ORIGINATING FROM THE CONSTRUCTION OPERATIONS IS CONSIDERED A CRITICAL RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER WILL BE THE FINAL JUDGE OF THE ADEQUACY OF THE CONTRACTOR'S DUST CONTROL EFFORTS. WORK MAY BE SUSPENDED BY THE ENGINEER UNTIL ADEQUATE DUST CONTROL IS ATTAINED.
20. ANY EXISTING STORM DRAINAGE PIPES, INCLUDING DRIVEWAY CULVERTS, WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH CORRUGATED SMOOTH INTERIOR POLYETHYLENE PIPE A MINIMUM OF 15" IN DIAMETER WHICH CONFORMS TO AASHTO SPEC. M294 TYPE S, ASTM SPEC. D3350, NYSDOT ENGINEERING INSTRUCTION #90-36 AND NYSDOT STANDARD SPECIFICATION SUBSECTION 706-14, OR AS ORDERED BY THE ENGINEER.
21. THE CONTRACT WILL REQUIRE A HIGHWAY WORK PERMIT FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL OBTAIN THE PERMIT AS THE CO-PERMITEE WITH THE OWNER BEING THE APPLICANT. CONTRACTOR SHALL PAY ALL NECESSARY FEES, PROVIDE ALL INSURANCE CERTIFICATES AND POST ALL NECESSARY BONDS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT SHORING AND SHEETING SYSTEM TO THE NYSDOT'S REGIONAL GEOTECHNICAL ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR SHALL ABIDE BY THE REQUIREMENTS OF THE PERMIT.
22. CONTRACTOR SHALL FIELD VERIFY ALL INVERTS WHERE NECESSARY AND PROVIDE ALL FINDINGS TO THE ENGINEER. ALL NECESSARY CHANGES SHALL BE APPROVED BY THE ENGINEER PRIOR TO ORDERING PRECAST SANITARY SEWER STRUCTURES.
23. MATERIALS, EQUIPMENT, AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NYSDOT RIGHT-OF-WAY.
24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE AND PROTECT ALL UTILITY LINES IN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE TO PRESERVE AND PROTECT ALL EXISTING SURVEY CONTROL POINTS FOR THE FULL DURATION OF THE PROJECT.
26. THE CONTRACTOR IS TO RESTORE ALL ROADWAYS, WALKWAYS, AND LAWNS DISTURBED ON-SITE DURING CONSTRUCTION. RESTORATION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. THE COST FOR RESTORATION SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM.
27. THE APPROXIMATE LOCATION OF THE PROPOSED PIPELINES IS INDICATED ON THE PLANS, BUT THE FINAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF OF THE UNDERGROUND UTILITIES, OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
28. ALL UNDERDRAIN DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR AS SHOWN ON CONTRACT DWGS. NO SEPARATE PAYMENT MADE FOR REPLACEMENT NOT IDENTIFIED ON DWG.
29. ALL DISTURBED AREAS ARE TO BE FINE GRADED. A UNIFORM 6" LIFT OF TOPSOIL SHALL BE PLACED AND SEEDED WITH AN APPROPRIATE MIX OF GRASSES TO ESTABLISH A HEALTHY SUITABLE TURF.
30. ANY DAMAGED/DISTURBED FENCING WILL BE REPAIRED/REPLACED IN KIND.
31. HIGHWAY SUBGRADE SHALL BE PROTECTED USING SHEET PILES WHERE THE MANHOLES ARE LESS THAN 1' FROM THE ROAD SHOULDER.
32. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPE (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER THE SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND SETTLING TO THE SEWER ON THE WATER MAIN.
33. ANY DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
34. PROTECT OR REMOVE AND REINSTALL SIGNS, NYSDOT ITEM NUMBER 645.81. NEW SIGN BASES AND BREAKAWAY ASSEMBLIES SHALL BE INSTALLED ON REMOVED SIGNS WITHIN NYS ROW.
35. NYSDOT OPERATIONS TAKE PRECEDENCE OVER HIGHWAY WORK OPERATIONS. THE CONTRACTOR SHALL NOT HAVE WORK OPERATIONS IN THE PAVEMENT DURING INCLEMENT WEATHER CONDITIONS OR DURING SNOW AND ICE REMOVAL OPERATIONS ON STATE HIGHWAYS.
36. THE INVERT ELEVATION SHOWN AT LOW POINTS ALONG THE FORCE MAIN SHALL BE CONSIDERED AS A POINT OF TANGENCY AND SHALL BE OBTAINED BY GRADUALLY DEFLECTING THE PIPE JOINTS WITHIN THE MANUFACTURERS ALLOWABLE LIMITS. IT IS NOT NECESSARY TO INSTALL VERTICAL BENDS TO MAKE THE TRANSITION IN SLOPES.
37. EXCAVATIONS WITHIN THE STATE'S R.O.W. SHALL NOT BE LEFT OPEN OVERNIGHT.
38. ANY DISTURBED DITCH LINES AND SWALES WITHIN THE DOT R.O.W. SHALL BE RESTORED TO LINE AND GRADE AND DRAIN IN PROPER DIRECTION WITH NO PONDING OR RUNOFF. MATCH EXISTING SIDE SLOPES.
39. AREAS WITH SLOPES 1:4 OR STEEPER, DITCH LINES AND OR WETLANDS, SHALL BE RESTORED WITH ITEM #610.190301, ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE C INTERMEDIATE (ONLY 100% ORGANIC MATERIAL IS ALLOWED). CONTRACTOR IS RESPONSIBLE FOR SCOURING AND EROSION CONTROL UNTIL TURF HAS BEEN ESTABLISHED THROUGHOUT THE PROJECT INCLUDING DITCH LINES.
40. GRAVEL SHOULDER OUTSIDE OF EDGE OF PAVED SHOULDER SHALL BE RESTORED TO EXISTING WIDTH, FLUSH WITH PAVED SHOULDER AND COMPACTED WITH CRUSHED STONE NYSDOT STANDARD SPECIFICATIONS MATERIAL #703-0201 FROM TABLE 703-3 OF CRUSHED SCREENINGS SIZE 1A FROM TABLE 704-4.
41. THE CONTRACTOR SHALL NOT TRANSPORT CONSTRUCTION MATERIAL WITH EQUIPMENT ON STATE HIGHWAYS OUTSIDE OF WORK ZONES.
42. CONTRACTOR SHALL REPLACE DISTURBED DRIVEWAYS IN KIND.

WETLAND CONSTRUCTION REQUIREMENTS:

1. THE STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE CONFINED TO WITHIN THE PROJECT CONSTRUCTION AREA AND/OR UPLAND (NON-WETLAND) AREA MORE THAN 100 FEET FROM THE WETLAND BOUNDARY.
2. ALL EXCAVATED, EXCESS, WASTE, SPOIL, OR DEBRIS MATERIAL FROM THE PROJECT SITE SHALL BE REMOVED TO A PERMISSIBLE, LEGAL UPLAND LOCATION AND NOT PLACED IN ANY PORTION OF THE PROTECTED WETLAND, 100 FOOT ADJACENT AREA, OR AREAS DEPICTED AS 100 YEAR FLOOD HAZARD AREAS. THESE MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL STATUTES, REGULATIONS, AND ORDINANCES.
3. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL CONTACT OR FLOW INTO ANY WETLANDS OR WATERS OF NEW YORK STATE NOR SHALL WASHINGS FROM READY MIXED CONCRETE TRUCKS, MIXERS OR OTHER DEVICES ENTER ANY WETLANDS OR WATERS. ONLY WATERTIGHT OR WATER PROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER IN FORMS.
4. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, GRADING OR EXCAVATION ACTIVITIES, OR DEWATERING OPERATIONS SHALL NOT ENTER THE STREAM, NAVIGABLE WATER OR WETLAND; ANY SUCH DISCHARGE SHALL BE:
   A. RETAINED IN AN APPROPRIATELY MAINTAINED UPLAND SETTLING BASIN. FILTERED THROUGH CRUSHED STONE, SAND, HAY BALES, SILT SCREENING (MAXIMUM OPENING SIZE TO U.S. SIEVE NUMBER 20), ETC.
   OR
   B. DIRECTED TO GRASSY UPLAND AREA THAT IS A SUFFICIENT DISTANCE FROM THE STREAM TO PREVENT CHANGE OF TURBIDITY OF THE RECEIVING WETLAND.
5. ALL DREDGED OR EXCAVATED MATERIAL MUST BE EFFECTIVELY STABILIZED SO THAT IT CANNOT RE-ENTER ANY WATER BODY, STREAM OR WETLAND AREA.
6. SOIL WHICH HAS BEEN EXCAVATED DURING CONSTRUCTION AND NOT USED, SHALL BE EVENLY BACKFILLED INTO THE DISTURBED AREA AND NOT REMOVED FROM THE SITE. THE SOIL SHALL BE GRADED TO CONFORM TO THE TERRAIN AND ADJACENT LAND. AREAS SO DISTURBED SHALL BE SEEDED AND MULCHED WITHIN 5 DAYS WITH ANNUAL RYE GRASS. IF SEEDING FAILS TO PROVIDE ADEQUATE COVER BY THE PERMIT EXPIRATION DATE, THE AREA MUST BE RE-SEEDED TO THE AGENCY OF JURISDICTION'S SATISFACTION.
7. IF SEEDING OR PLANTING IS IMPRACTICAL DUE TO THE TIME OF YEAR, A TEMPORARY MULCH SHALL BE APPLIED WITHIN 5 DAYS OF FINAL GRADE COMPLETION. FINAL SEEDING SHALL BE PERFORMED AT THE EARLIEST OPPORTUNITY WHEN WEATHER CONDITIONS FAVOR GERMINATION AND GROWTH, BUT NO LATER THAN THE PERMIT EXPIRATION DATE.
8. CLEARING OF NATURAL VEGETATION SHALL BE LIMITED TO THE MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO CONSTRUCTION.
9. IF WATER MAIN IS TO BE INSTALLED THROUGH THE WETLAND PROPER, ALONG THE ROAD SHOULDER, OR BELOW GRADE OF THE WETLAND SURFACE, THEN CLAY TRENCH PLUGS MUST BE UTILIZED AT THE WETLAND BOUNDARIES, TO AVOID INADVERTENT DRAINAGE OF THE WETLAND.

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES WILL BE STRICTLY ENFORCED BY THE ENGINEER. ANY EROSION CONTROL DEVICE WHICH IS DEEMED NECESSARY BY THE ENGINEER SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO CONTINUING WITH THE WATER MAIN INSTALLATION.
2. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES.
3. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
4. PERIODIC CLEANING AND INSPECTION OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES WILL BE NECESSARY. AFTER ANY STORM EVENT MAINTENANCE SHALL BE REQUIRED.
5. IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. PRIOR TO USE, THE SETTLING BASIN LOCATION AND DESIGN SHALL BE APPROVED BY THE ENGINEER.
6. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EXCAVATION OR OTHER GROUND DISTURBANCE AND SHALL BE PROPERLY MAINTAINED UNTIL UNDISTURBED SOILS HAVE BEEN SUCCESSFULLY RE-VEGETATED.
7. THE CONTRACTOR WILL BE REQUIRED TO FOLLOW STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THE PROJECT.

DIRECTIONAL DRILLING FLUID MANAGEMENT NOTES:

1. CONDITIONS FOR DIRECTIONAL DRILLING FLUID MANAGEMENT SHALL BE FOLLOWED FOR DIRECTIONAL DRILLING BELOW WETLANDS AND STREAMS, AS WELL AS IN LOCATIONS WITHIN 500 FEET OF WETLANDS AND STREAMS.
2. TO MINIMIZE POTENTIAL IMPACTS ASSOCIATED WITH THE USE OF DRILLING FLUIDS THE FOLLOWING CONDITIONS SHALL BE ADHERED TO:
   A. DRILLING FLUID CIRCULATION SHALL BE MAINTAINED TO THE EXTENT PRACTICAL.
   B. IF INADVERTENT SURFACE RETURNS OCCUR IN UPLAND AREAS, THE FLUIDS SHALL BE IMMEDIATELY CONTAINED AND COLLECTED. IF THE AMOUNT IS NOT ENOUGH TO ALLOW PRACTICAL COLLECTION, THE AFFECTED AREA WILL BE DILUTED WITH FRESHWATER AND ALLOWED TO DRY AND DISSIPATE NATURALLY. IF THE AMOUNT OF SURFACE RETURN EXCEEDS THAT WHICH CAN BE COLLECTED USING SMALL PUMPS, DRILLING OPERATIONS SHALL BE SUSPENDED UNTIL SURFACE VOLUMES CAN BE BROUGHT UNDER CONTROL.
   C. IF INADVERTENT DRILLING FLUIDS SURFACE RETURNS OCCUR IN AN ENVIRONMENTALLY SENSITIVE AREA (I.E. WETLANDS AND WATER BODIES) THE RETURNS SHALL BE MONITORED AND DOCUMENTED. DRILLING OPERATIONS MUST BE SUSPENDED IF THE SURFACE RETURNS POSE A THREAT TO THE RESOURCE OR TO PUBLIC HEALTH AND SAFETY. REMOVAL OF RELEASED FLUIDS FROM ENVIRONMENTALLY SENSITIVE AREAS WILL TAKE PLACE ONLY IF THE REMOVAL DOES NOT CAUSE ADDITIONAL ADVERSE IMPACTS TO THE RESOURCE. IF INADVERTENT DRILLING FLUIDS SURFACE RETURNS OCCUR IN A ENVIRONMENTALLY SENSITIVE AREA THE DEPARTMENT'S BUREAU OF HABITAT SHALL BE NOTIFIED IMMEDIATELY (585-226-5440) AND A MONITORING REPORT SUMMARIZING THE LOCATION OF SURFACE RETURNS, ESTIMATED QUANTITY OF FLUID AND SUMMARY OF CLEANUP EFFORTS SHALL BE SUBMITTED TO THE DEPARTMENT'S BUREAU OF HABITAT (FAX: 585-226-2830) WITHIN 48 HOURS OF THE OCCURRENCE.
3. INSTALLATIONS OCCURRING BENEATH COUNTY AND STATE HIGHWAYS WITHIN RIGHT-OF-WAYS OR EASEMENTS SHALL ALSO BE REQUIRED TO FOLLOW THE ABOVE GUIDELINES.

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE (-R.O.W.-)
- CENTERLINE OF ROAD
- EXISTING EASEMENT
- EXISTING GAS MAIN (-2"G-)
- EXISTING UNDERGROUND UTILITIES (UU UE UT)
- EXISTING WATER MAIN, HYDRANT, CURB STOP, WATER VALVE, METER SETTER (HYD CS WV W)
- EXISTING SANITARY SEWER, MANHOLE (SAN MH)
- EXISTING STORM SEWER, MANHOLE (STORM MH)
- EXISTING EDGE OF PAVEMENT (EP)
- PROPOSED SANITARY SEWER FORCE MAIN (SANITARY MH)
- EXISTING CONTOURS (700)
- SILT FENCE
- DIRECTION OF FLOW
- POWER POLE (PP)
- LIGHT POLE (LP)
- SIGN (SIGN)
- DECIDUOUS TREE, PINE TREE, STUMP
- PROPOSED STUMP REMOVAL AND TREE REPLACEMENT
- IRON PIN
- CHECK DAM
- CLAY PLUG
- DIRECTIONAL DRILL
- AIR RELEASE MANHOLE (A)

TREE NOTES

1. FOR TREE REMOVALS WITHIN THE STATE ROW, REPLACEMENT TREE PLANTINGS WILL BE REQUIRED WITHIN THE STATE ROW TO ADDRESS THE LOSS OF VEGETATION FUNCTION AND VALUE. THE FOLLOWING FORMULA SHOULD BE USED TO DETERMINE THE NUMBER OF REPLACEMENT TREES:
   A. FOR EVERY 2-INCH DIAMETER OF TREES REMOVED = 2-INCH DIAMETER OF TREES SHALL BE REPLACED.
   B. VERIFY THE DBH OF EACH TREE TO BE REMOVED BY FIELD MEASUREMENT. USE THE TOTAL DIAMETER OF ALL TREES PROPOSED FOR REMOVAL TO DETERMINE THE NUMBER OF REPLACEMENT TREES. FOR EXAMPLE, (6) 3- INCH TREE REMOVALS WOULD EQUAL 18 INCHES. THUS, (9) 2-INCH TREES WOULD BE REQUIRED FOR REPLACEMENT PLANTING. PROVIDE A PLANTING PLAN THAT SHOWS THE LOCATION, SIZE AND TREE TYPE TO BE PLANTED. PROVIDE THE GENUS AND SPECIES ALONG WITH THE COMMON NAME FOR EACH TREE TYPE.
2. CONTRACTOR SHALL COMPLY WITH NYSDOT GENERAL NOTES FOR TRENCHING AND BORING AROUND TREES, PLAN SHEET D-03.

TREE REMOVAL/REPLACEMENT GUIDELINES

1. IF TREE REMOVALS ARE REQUIRED WITHIN OR CLOSE TO THE STATE ROW, IDENTIFY TREE REMOVAL LOCATIONS ON THE PLANS WITH A TREE REMOVAL SYMBOL AND DIAMETER AT BREAST HEIGHT. IF NOT SHOWN ON PLANS, SUBMIT A LIST OF ALL TREE REMOVALS WITHIN THE STATE ROW FOR OUR REVIEW. TREE REMOVAL LIST SHALL INCLUDE STATION LOCATION, SIDE, OFFSET FROM CENTERLINE OF ROUTE 21 TO CENTER OF TREE, PROPERTY ADDRESS, SIZE (DBH), TYPE OF TREE AND WHETHER IT IS ON OR OFF THE STATE ROW.
2. ALL PROPOSED TREE REMOVALS WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS SECTIONS 614 UTILIZING APPROPRIATED NYSDOT ITEMS. SPECIFY STUMPS GRUBBED FOR TREE REMOVALS AT RESIDENTIAL AND COMMERCIAL PROPERTIES. SPECIFY STUMPS CUT FLUSH FOR ALL OTHER TREE REMOVAL LOCATIONS.
3. FOR TREE REMOVALS WITHIN THE STATE ROW, REPLACEMENT TREE PLANTINGS WILL BE REQUIRED WITHIN THE STATE ROW TO ADDRESS THE LOSS OF VEGETATION FUNCTION AND VALUE. THE FOLLOWING FORMULA SHOULD BE USED TO DETERMINE THE NUMBER OF REPLACEMENT TREES:
   A. FOR EVERY 2-INCH DIAMETER OF TREES REMOVED = 2-INCH DIAMETER OF TREES SHALL BE REPLACED.
   B. VERIFY THE DBH OF EACH TREE TO BE REMOVED BY FIELD MEASUREMENT. USE THE TOTAL DIAMETER OF ALL TREES PROPOSED FOR REMOVAL TO DETERMINE THE NUMBER OF REPLACEMENT TREES. FOR EXAMPLE, (6) 3-INCH TREE REMOVALS WOULD EQUAL 18 INCHES. THUS, (9) 2-INCH TREES WOULD BE REQUIRED FOR REPLACEMENT PLANTING. PROVIDE A PLANTING PLAN THAT SHOWS THE LOCATION, SIZE AND TREE TYPE TO BE PLANTED. PROVIDE THE GENUS AND SPECIES ALONG WITH THE COMMON NAME FOR EACH TREE TYPE.
5. IF THERE IS NOT ADEQUATE SPACE WITHIN THE IMMEDIATE VICINITY OF THE REMOVAL TO PROVIDE CORRECT TREE REPLACEMENT QUANTITY, LOOK FOR OPPORTUNITIES ELSEWHERE WITHIN THE PROJECT BOUNDARIES TO REPLACE TREES. ONCE THE REQUIRED REPLACEMENT PLANTING QUANTITY IS INSTALLED OR ALL PLANT LOCATIONS WITHIN PROJECT BOUNDARY ARE PLANTED, NO MORE PLANTINGS ARE REQUIRED TO BE INSTALLED.
6. ALL TREE PLANTINGS ARE TO BE LOCATED OUTSIDE THE CLEAR ZONE. DECIDUOUS TREES PROPOSED FOR PLANTING UNDER/NEAR OVERHEAD UTILITY LINES SHOULD BE SMALL TREES (≤ 30' MATURE HEIGHT) SUITABLE FOR ROADWAY ENVIRONMENTS (ITEM 611.0291 - PLANTING - MINOR DECIDUOUS TREES - 1 ¾ INCH CALIPER). ALL OTHER DECIDUOUS TREES PROPOSED FOR PLANTING SHOULD BE MEDIUM TO LARGE TREES (› 30' MATURE HEIGHT) SUITABLE FOR ROADWAY ENVIRONMENTS (ITEM 611.0151- PLANTING- MAJOR DECIDUOUS TREES- 2-INCH CALIPER). CONIFEROUS TREES (ITEM 611.0361-PLANTING-CONIFEROUS TREES- 6-FOOT HEIGHT) PROPOSED FOR PLANTING SHOULD BE LOCATED AS BEST AS POSSIBLE TO MINIMIZE CONFLICTS WITH OVERHEAD UTILITY LINES.
7. USING A 25-FOOT SPACING FOR MINOR DECIDUOUS TREES, A 30-FOOT SPACING FOR MAJOR DECIDUOUS TREES AND A 15-FOOT SPACING FOR CONIFEROUS TREES, PROVIDE A PLANTING PLAN THAT SHOWS THE LOCATIONS AND TREE TYPES (DECIDUOUS OR CONIFEROUS) TO BE PLANTED BASED ON THE TREE REPLACEMENT QUANTITIES, SIZES AND ITEM NUMBERS PROVIDE ABOVE. PROVIDE THE GENUS AND SPECIES ALONG WITH THE COMMON NAME FOR EACH TREE TYPE.
8. ALL TREE AND SHRUB PLANTING WITHIN THE STATE ROW SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATIONS SECTION 611 AND STANDARD SHEET 611-01.
9. ALL REPLACEMENT TREES SHALL BE STAKED AT THE TIME OF PLANTING.
10. ITEM 610.19 WATERING VEGETATION IS REQUIRED FOR ALL TREE AND SHRUB PLANTINGS WITHIN THE STATE ROW IN ACCORDANCE WITH SECTION 610-3.10.
11. ITEM 611.190X0024 POST-CARE PLANTING WITH REPLACEMENTS IS REQUIRED FOR ALL TREE AND SHRUB PLANTINGS. THIS IS A SPECIAL SPECIFICATION.

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

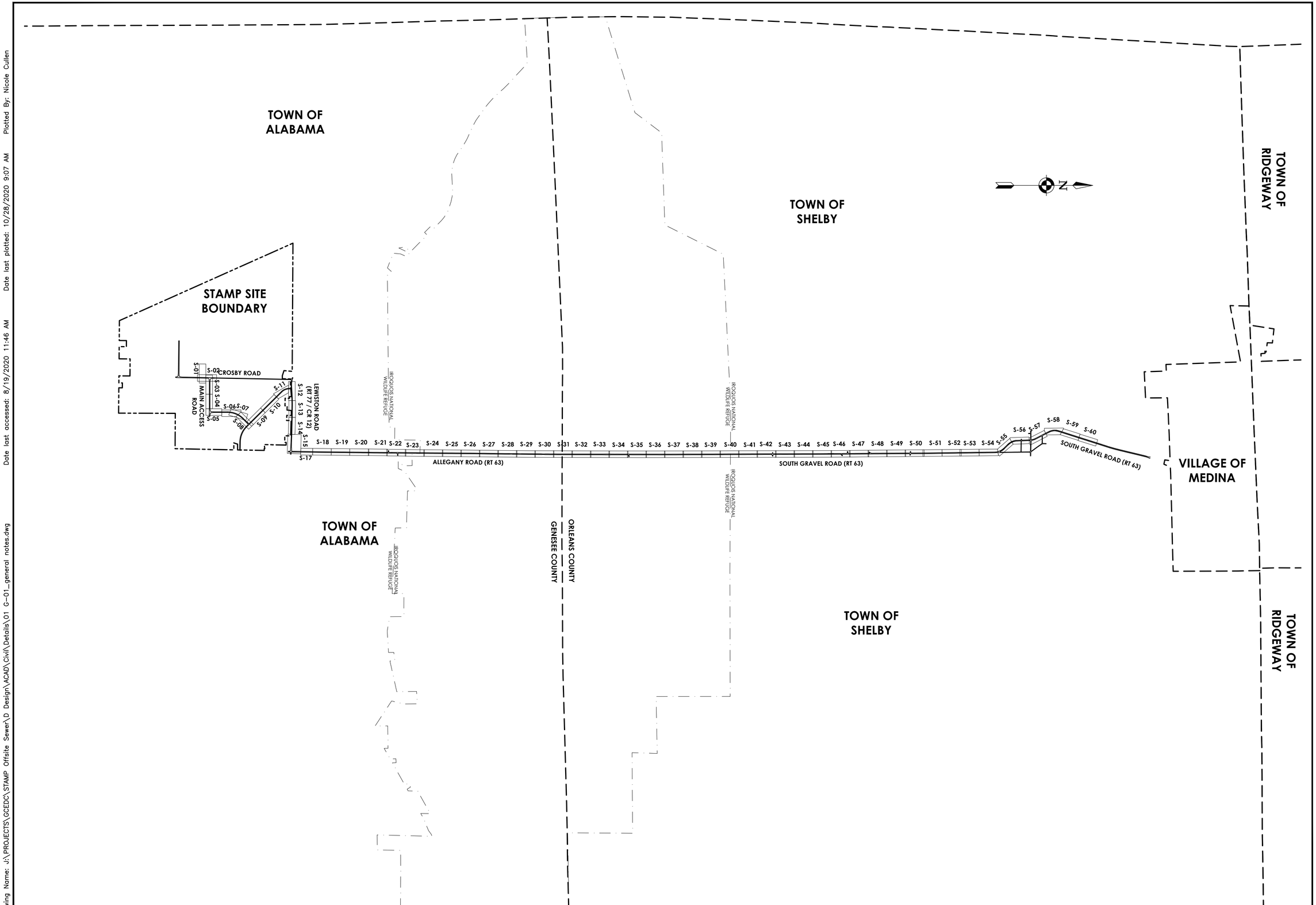
SCALE AS NOTED

SHEET TITLE
GENERAL NOTES AND LEGEND

PROJECT NUMBER
14822.00

FM
G-01
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER IN ANY WAY A SURVEY MAP OR PLAN BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR. IF ANY PERSON ALTERS A SURVEY MAP OR PLAN IN ANY WAY, A SURVEY MAP OR PLAN BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ALTERING PARTY SHALL AFFIX TO THE SURVEY MAP OR PLAN THE LEGEND "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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SHEET TITLE
SHEET LAYOUT

PROJECT NUMBER
14822.00

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G-02
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Drawing Name: J:_PROJECTS\GCEDC_STAMP Offsite Sewer\D Design_ACAD_Civil\Details\01 G-01_general notes.dwg
Date last accessed: 8/19/2020 11:46 AM
Date last plotted: 10/28/2020 9:07 AM
Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS\GCEDC_STAMP Offsite Sewer_D Design\ACAD\Civil\Site\PLOT SET S-01 TO S-22.dwg
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:05 AM
Plotted By: Nicole Cullen

MATCH TO DWG. S-02 (TOP)

STORM WATER MANAGEMENT FACILITY

NATIONAL GRID ELECTRIC EASEMENT

FUTURE 2" DR-9 HDPE WATER SERVICE

PROTECT AND MAINTAIN UNDERGROUND TELEPHONE

PROPOSED 112KV REROUTE

UTILITY ACCESS ROAD

UTILITY ACCESS ROAD

7+00 6+00 5+00 4+00 3+00 2+00 1+00 0+00

C50+00 C49+00 C48+00 C47+00

17' 17' 43'

NEW 24" DR-14 PVC SANITARY FORCE MAIN

NEW FIBERGLASS MAIN LINE MARKER

NEW 24" 45° BENDS (TYP. OF 2)

OPEN CUT PAVEMENT

NEW 24" VALVE (TYP. OF 2)

FUTURE INFLUENT GRAVITY SANITARY SEWER (NOT IN CONTRACT)

PROPOSED 112KV REROUTE

109 0.0 182

182.5

66'

GATE (TYP. OF 2)

NATIONAL GRID ELECTRIC EASEMENT

CRETE SIDEWALK

12'X15' PRECAST CONCRETE CONTROL BUILDING

PRECAST TEMPORARY PUMP STATION WET WELL (TYP. OF 2)

PRECAST CONCRETE TEMPORARY PUMP STATION VALVE VAULT (TYP. OF 2)

ATION: GD) 10' SEE DETAILS)

ROL NG 00

TATION: GD) 10' BY OTHERS)

DISCHARGE TO OAK ORCHARD CREEK

SB-43_OffSite

SB-43

NEW 24" 45° BENDS

NEW 24" DR-14 PVC SANITARY FORCE MAIN

CHAIN LINK FENCE (BY OTHERS)

PHASE 2

ELL AND THERS)

MAIN PUMP STATION

10'x10' PUMP STATION SPLITTER BOX

S (TYP. OF 2)

PLAN

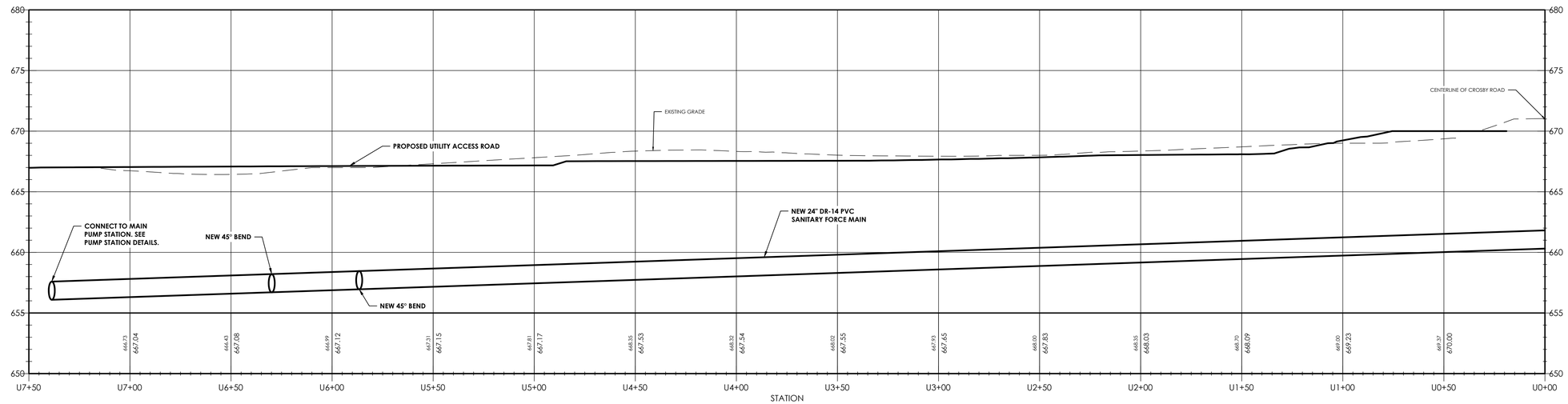
SCALE: 1"=30'

SB-42_OffSite

SB-42

CROSBY ROAD (100' R.O.W)

P9



UTILITY ACCESS ROAD
STA. U0+00 TO STA. U7+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. U0+00
TO STA. U17+00

PROJECT NUMBER
14822.00

FM
S-01
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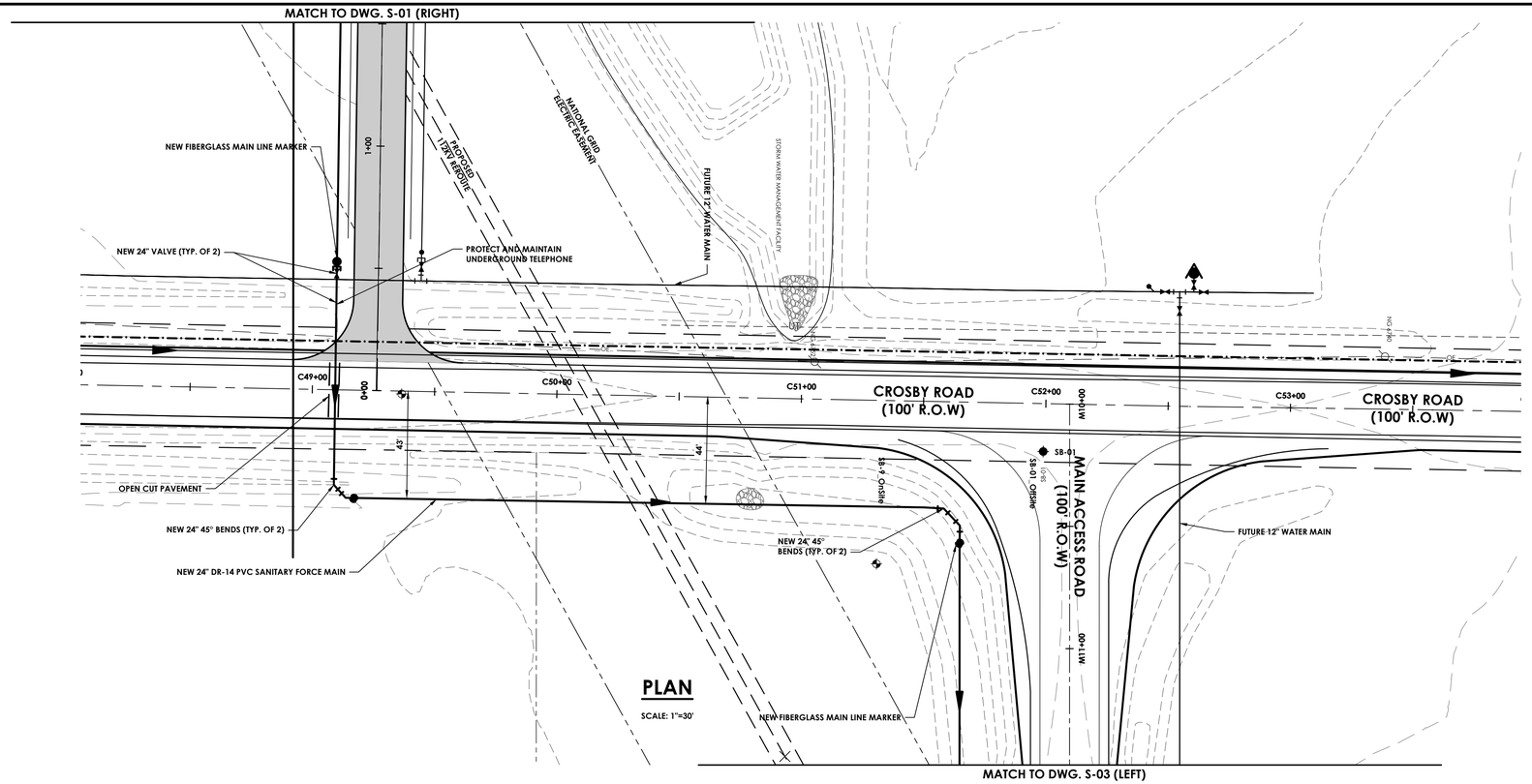

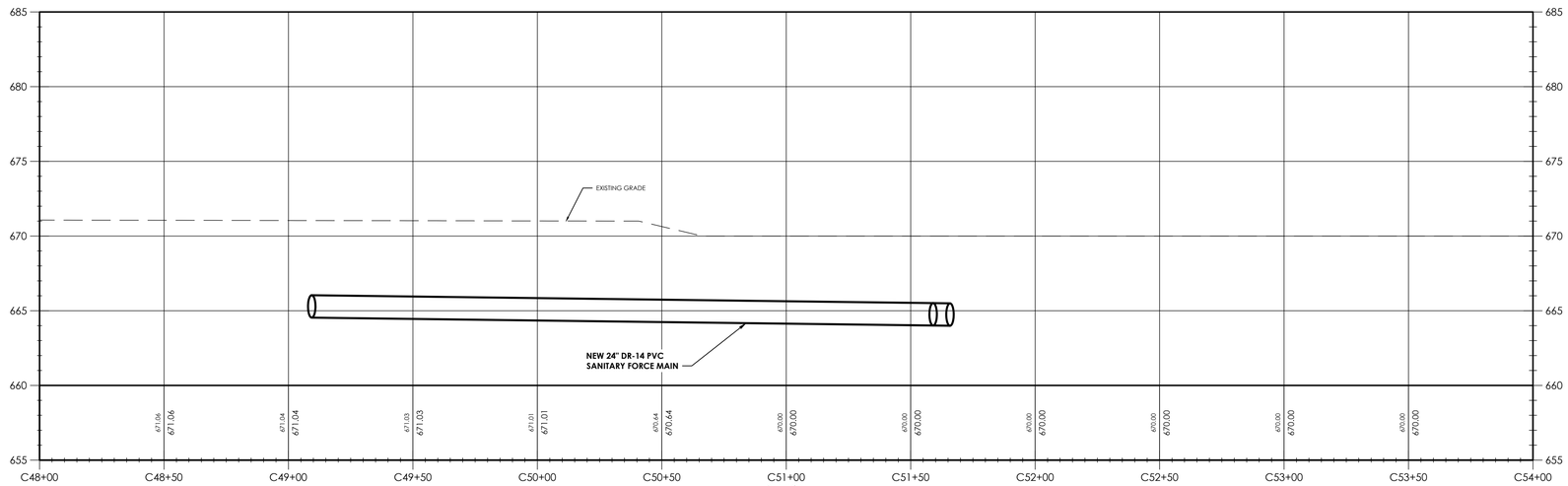

CROSBY ROAD
STA. C48+00 TO STA. C54+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. C48+00
TO STA. C54+00

PROJECT NUMBER
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FM
S-02
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:05 AM
Plotted By: Nicole Cullen

Plotted By: Nicole Cullen
Date last plotted: 10/28/2020 10:06 AM
Date last accessed: 10/28/2020 10:03 AM
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-01 TO S-22.dwg

CROSBY RO
(100' R.O.W

CROSBY ROAD
(100' R.O.W)

MAIN ACCESS ROAD
(100' R.O.W)

MAIN ACCESS ROAD
(100' R.O.W)

M10+00 M11+00 M12+00 M13+00 M14+00 M15+00 M16+00 M17+00 M18+00

C53+00 C52+00 C51+00

SB-01
SB-01
SB-01_OffSite

SB-9_OnSite

SB-8_OnSite

FUTURE 12" WATER MAIN

FUTURE 12" WATER MAIN

NATIONAL GRID
ELECTRIC EASEMENT

NATIONAL GRID
ELECTRIC EASEMENT

NATIONAL GRID
ELECTRIC EASEMENT

NATIONAL GRID
ELECTRIC EASEMENT

AGRICULTURAL FIELD

PROPOSED
112KV REROUTE

PROPOSED
112KV REROUTE

106
0.06
183.5

110
0.06
183

45'

158 LF X 3 FT INFILTRATION
BIORETENTION SWALE

NEW 24" DR-14 PVC SANITARY FORCE MAIN

NEW 24" DR-14 PVC SANITARY FORCE MAIN

NEW FIBERGLASS MAIN LINE MARKER

NEW 24" 45°
BENDS (TYP. OF 2)

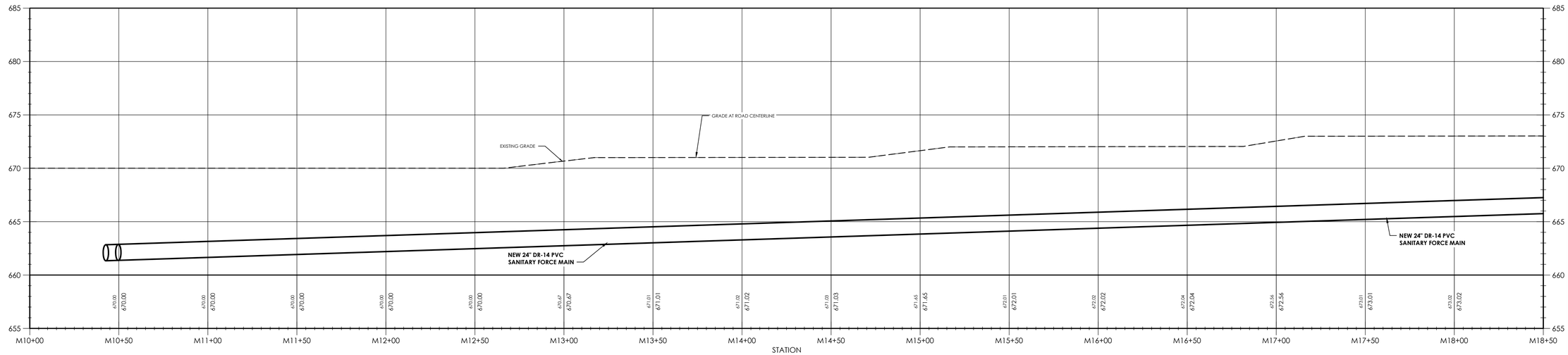
MATCH TO DWG. S-02

MATCH TO DWG. S-04 (LEFT)

N

PLAN

SCALE: 1"=30'



MAIN ACCESS ROAD
STA. M10+00 TO STA. M18+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

CPLteam.com
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205 ST. PAUL STREET,
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ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
FAX (585) 454-7618

REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. M10+00
TO STA. M18+50

PROJECT NUMBER
14822.00

FM
S-03
DRAWING NUMBER

ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
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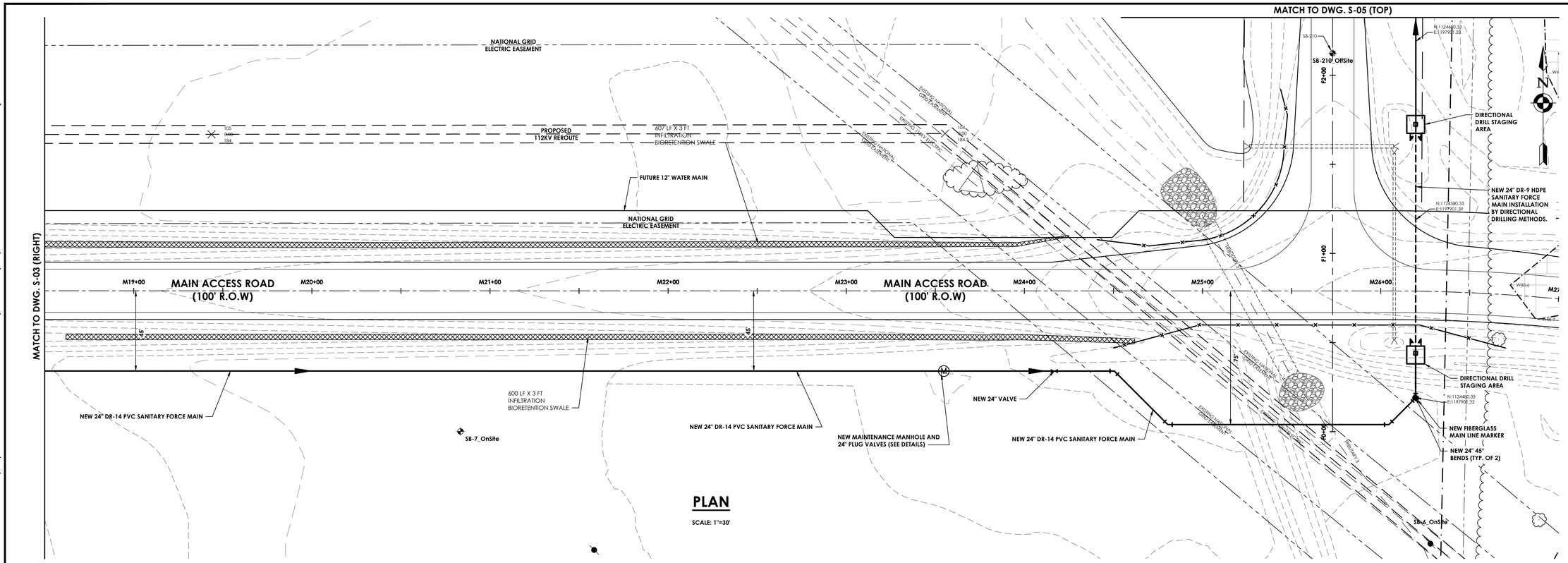

PLAN

SCALE: 1"=30'

MAIN ACCESS ROAD
STA. M18+50 TO STA. M27+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. M18+50
TO STA. M27+00

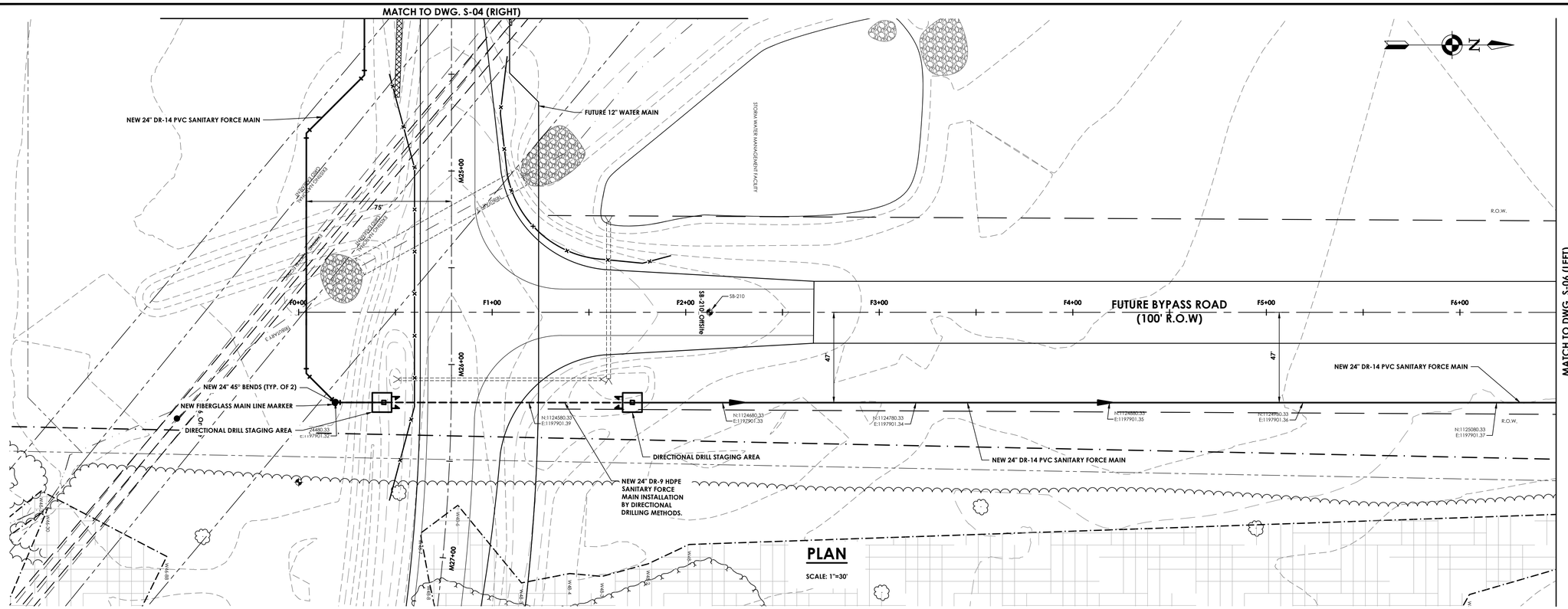
PROJECT NUMBER
14822.00

FM
S-04
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

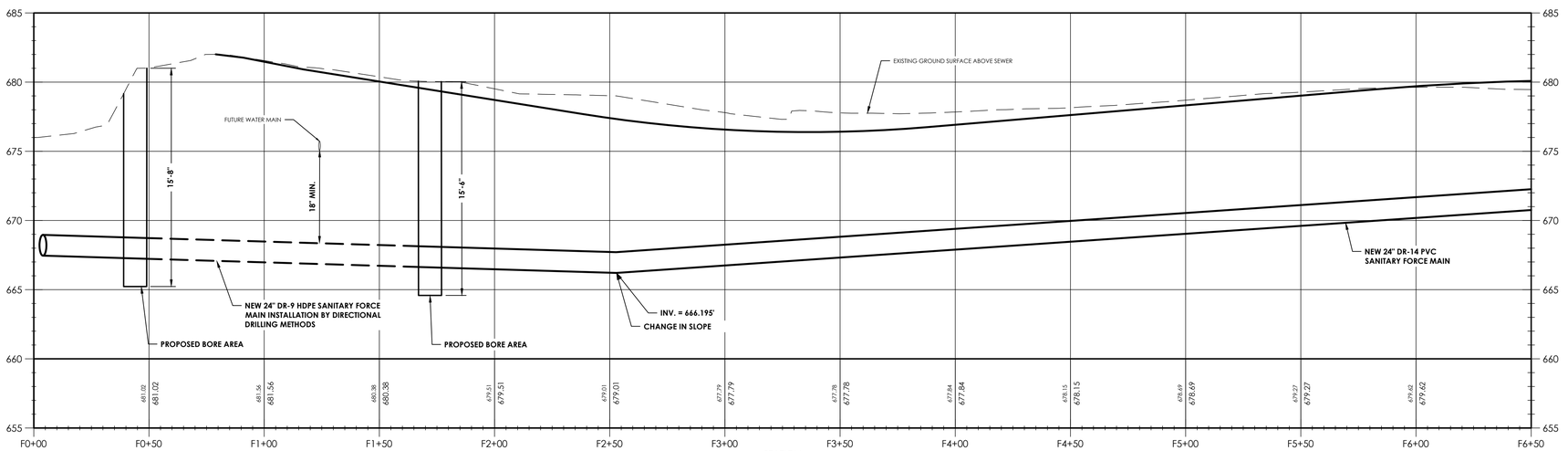
Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:07 AM Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:07 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



FUTURE ROAD
STA. F0+00 TO STA. F6+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. F0+00
TO STA. F6+50

PROJECT NUMBER
14822.00

FM
S-05
DRAWING NUMBER

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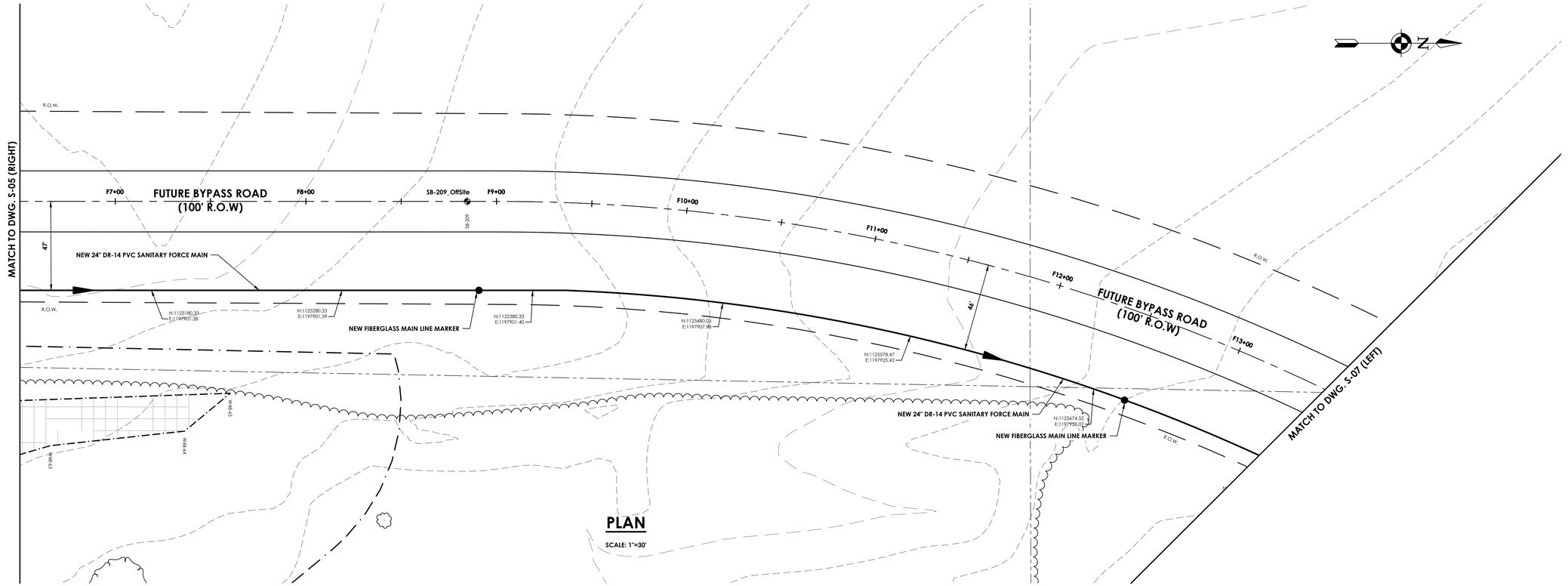
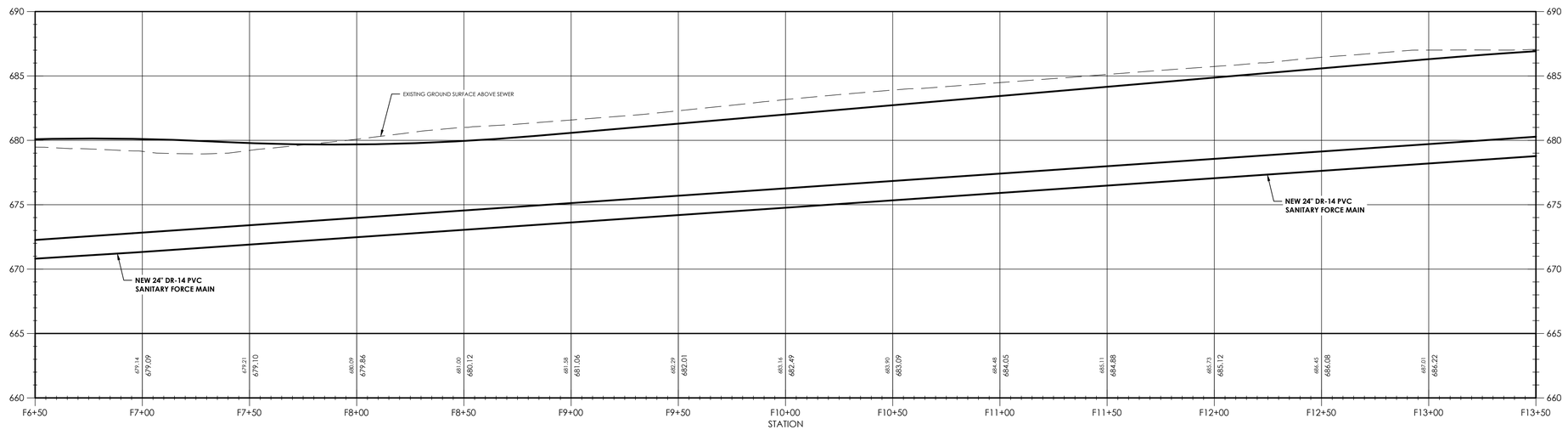


PLAN

SCALE: 1"=30'



FUTURE ROAD
STA. F6+50 TO STA. F13+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. F6+50
TO STA. F13+50

PROJECT NUMBER
14822.00

FM
S-06
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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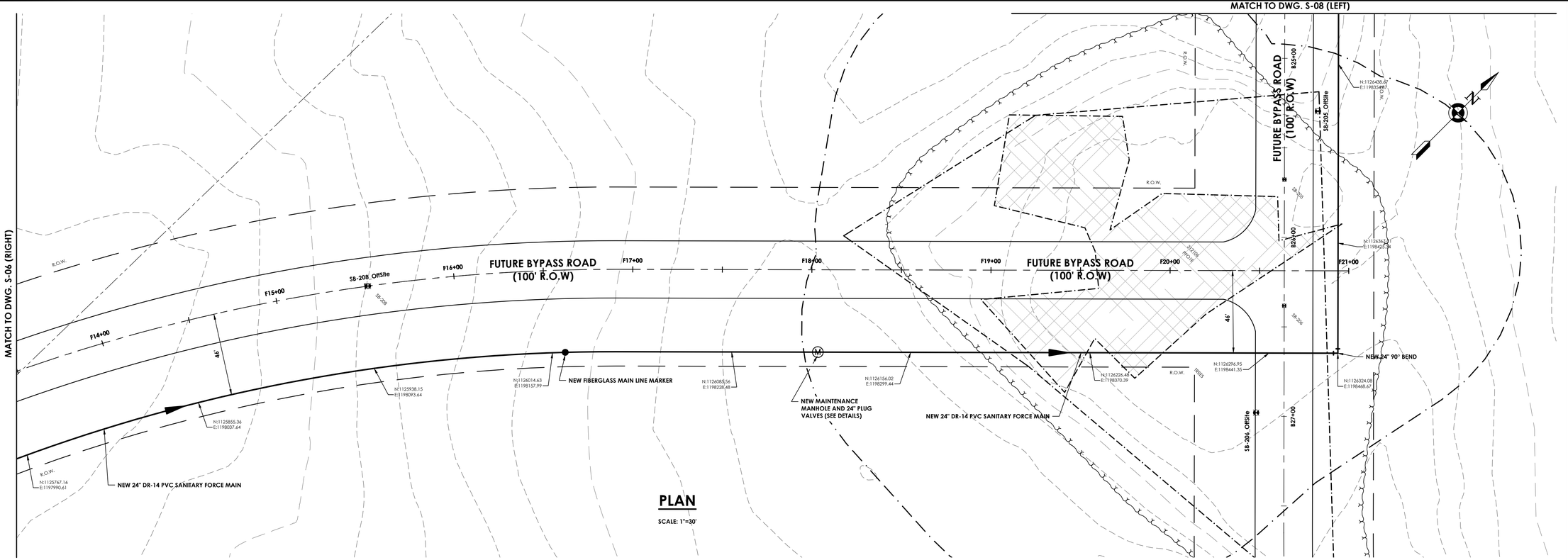
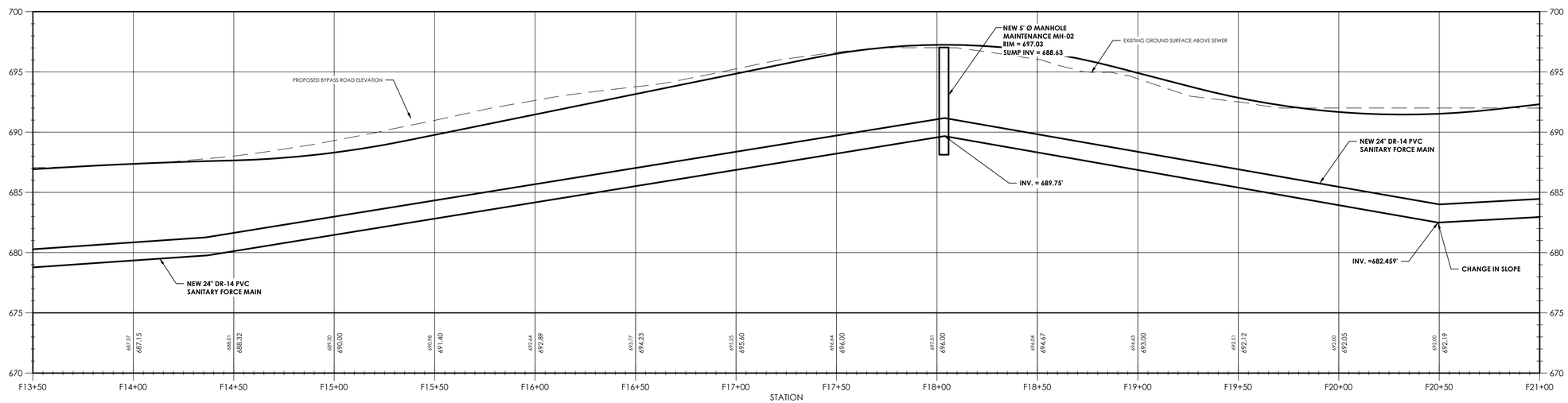
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:08 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



FUTURE ROAD
STA. F13+50 TO STA. F21+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. F13+50
TO STA. F21+00

PROJECT NUMBER
14822.00

FM
S-07
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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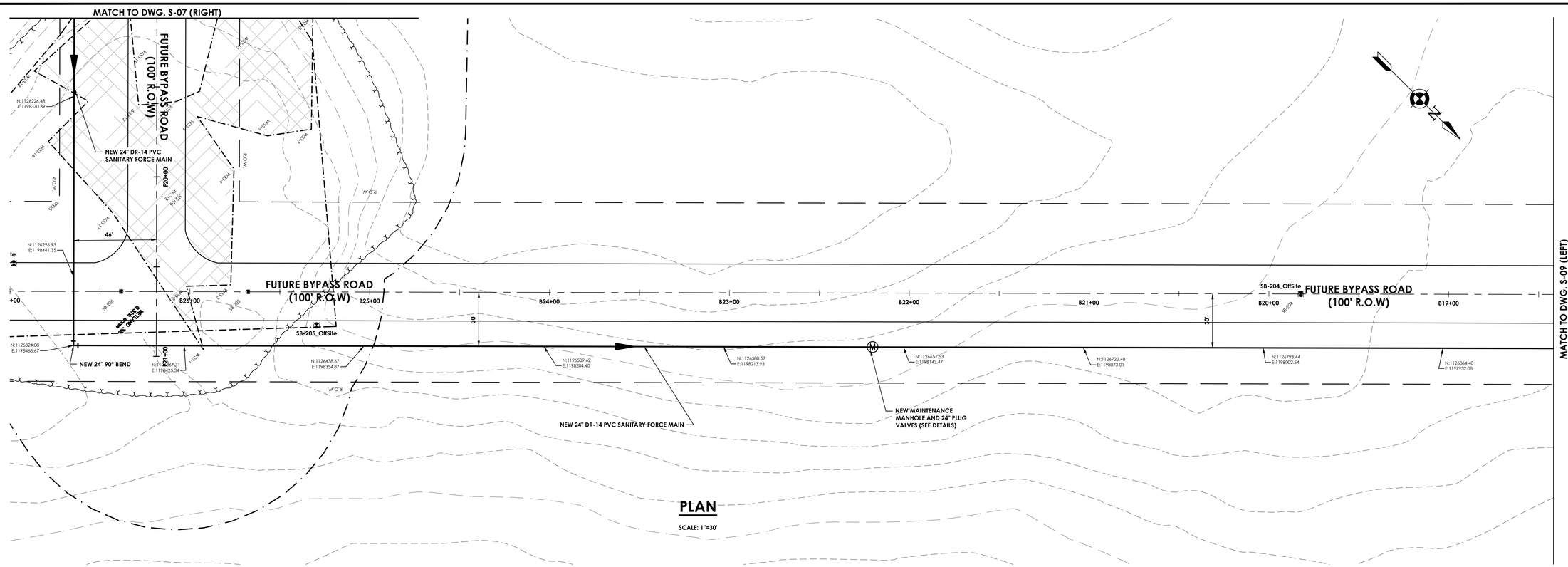
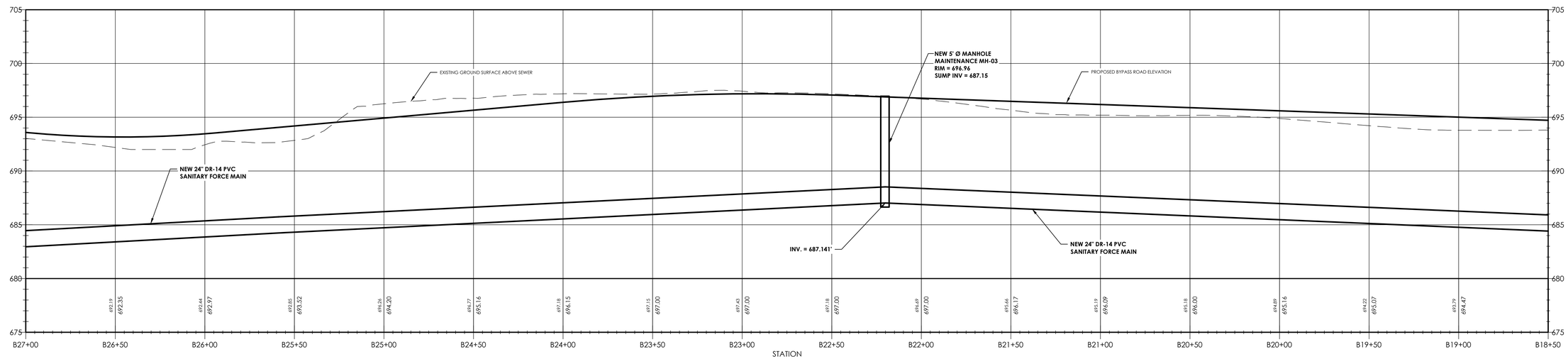
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:09 AM
Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:09 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



FUTURE BYPASS ROAD
STA. B18+50 TO STA. B27+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

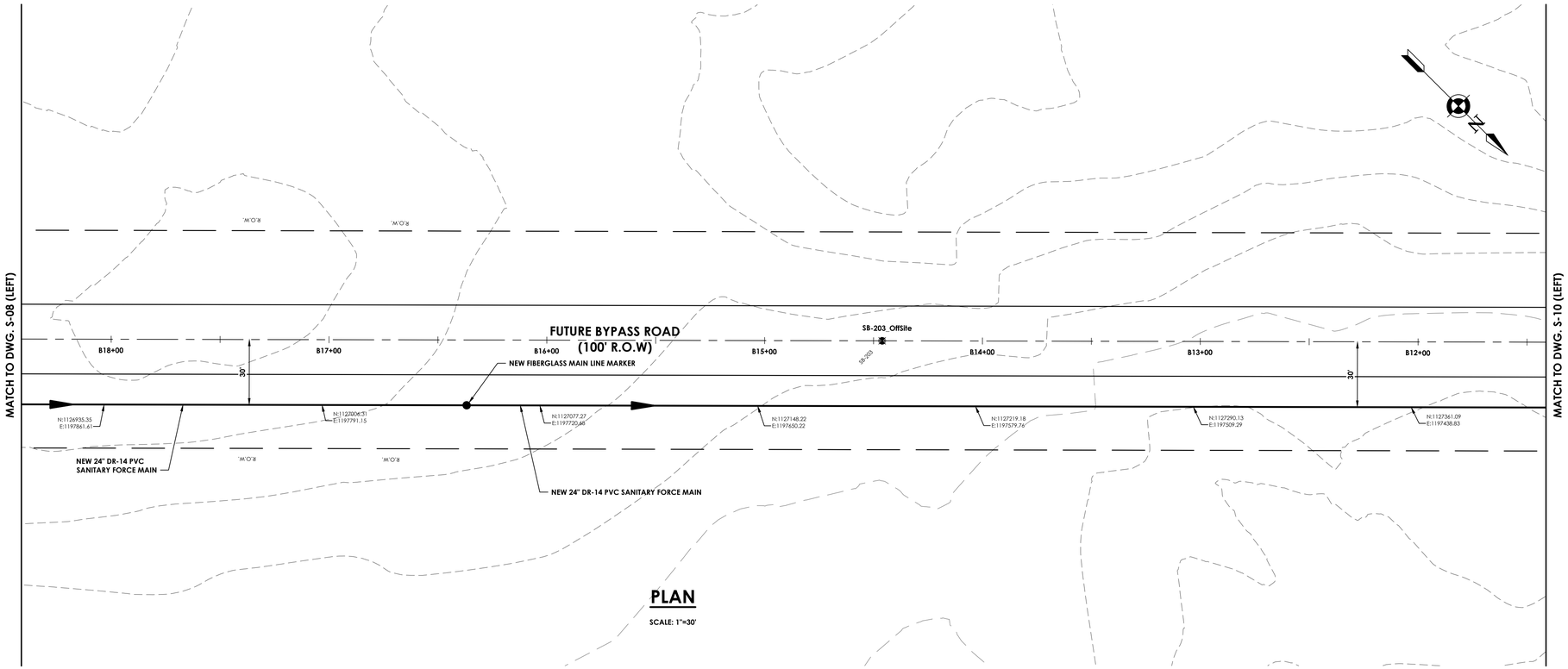
SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. B27+00
TO STA. B18+50

PROJECT NUMBER
14822.00

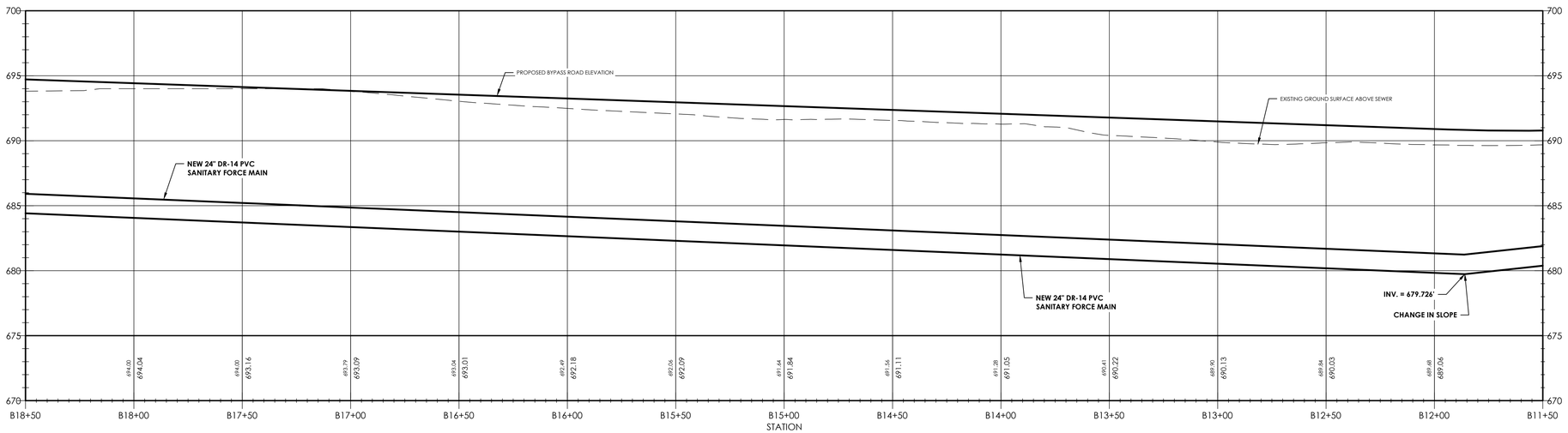
FM
S-08
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PLAN

SCALE: 1"=30'



FUTURE BYPASS ROAD
STA. B11+50 TO STA. B18+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. B18+50
TO STA. B11+50

PROJECT NUMBER
14822.00

FM
S-09
DRAWING NUMBER

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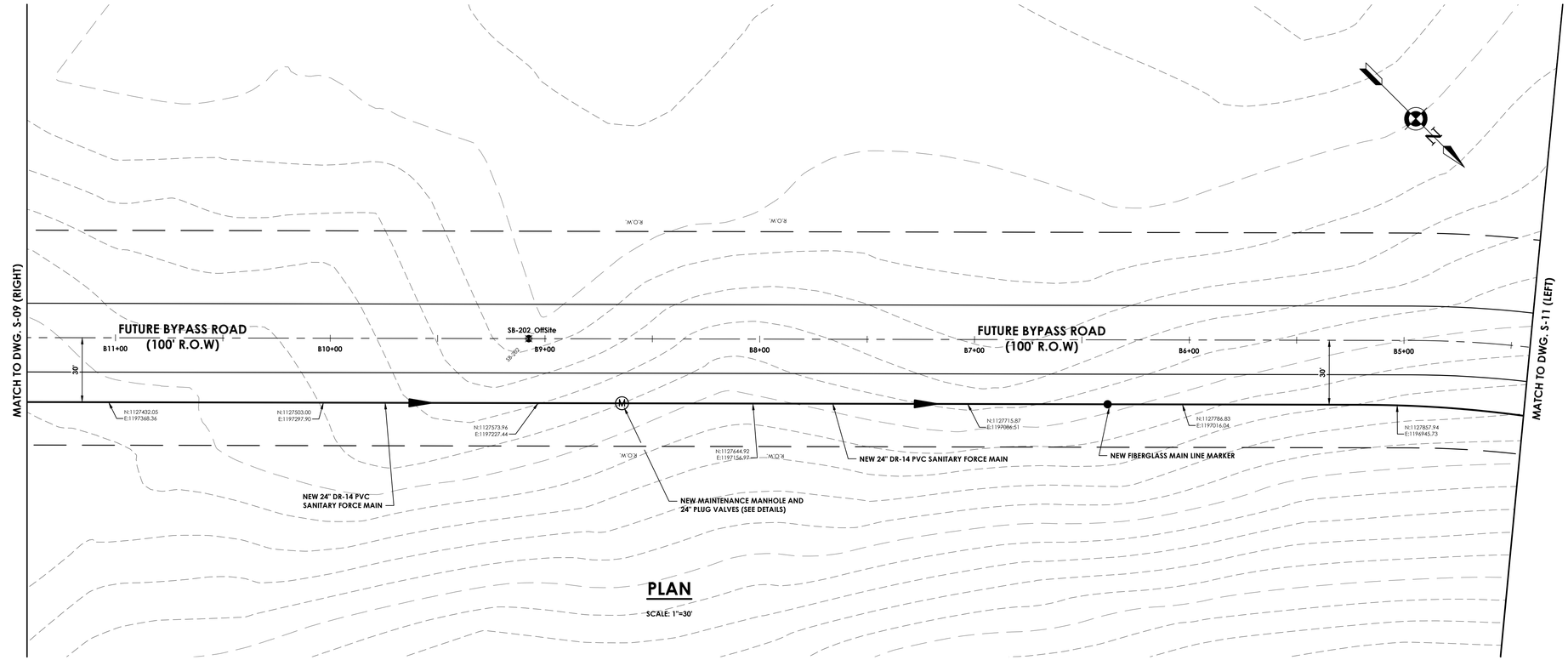
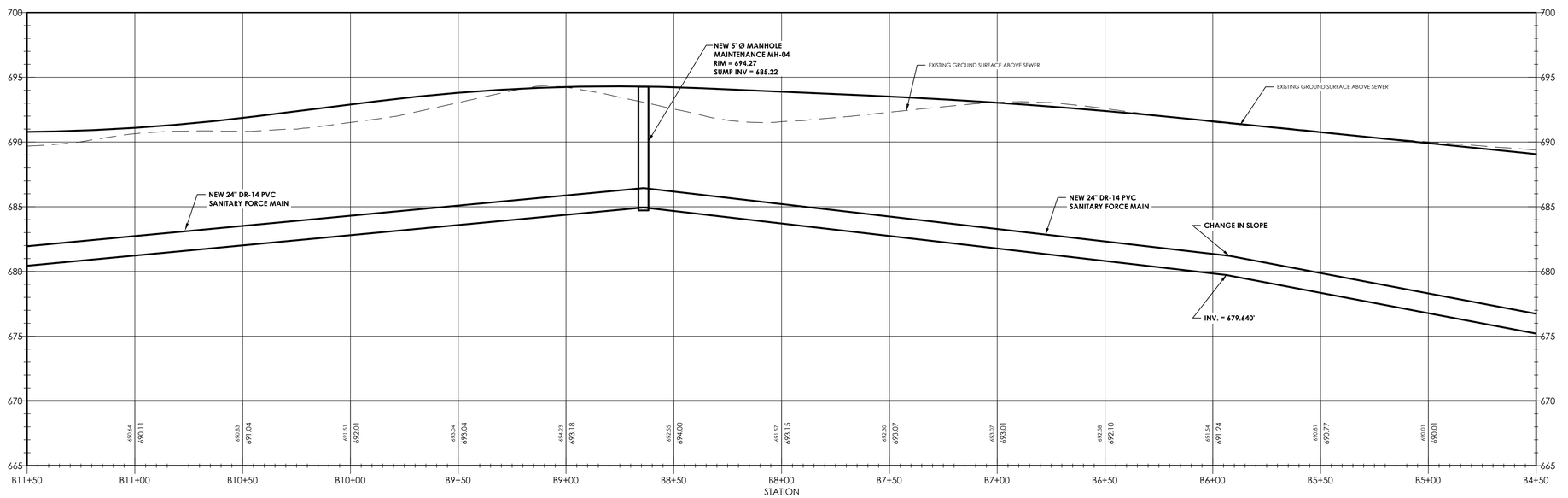
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:10 AM
Plotted By: Nicole Cullen





FUTURE BYPASS ROAD
STA. B4+50 TO STA. B11+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. B11+50
TO STA. B4+50

PROJECT NUMBER
14822.00

FM
S-10
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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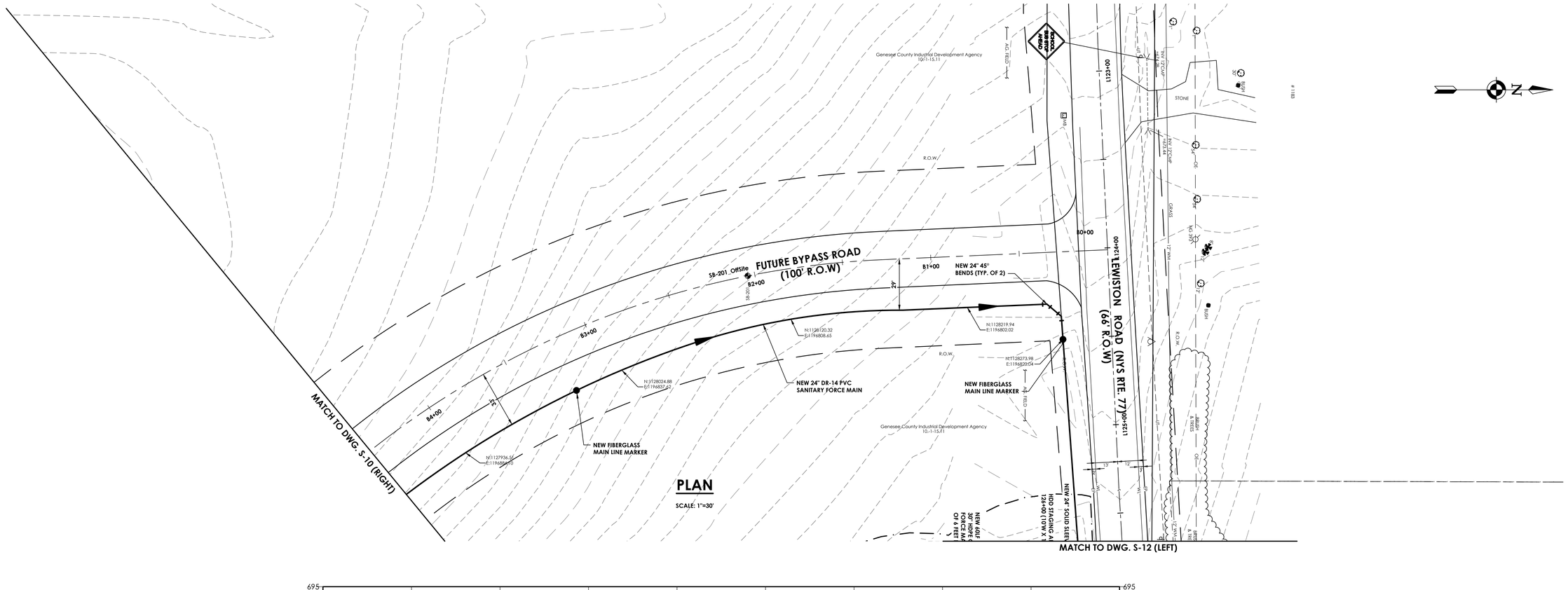
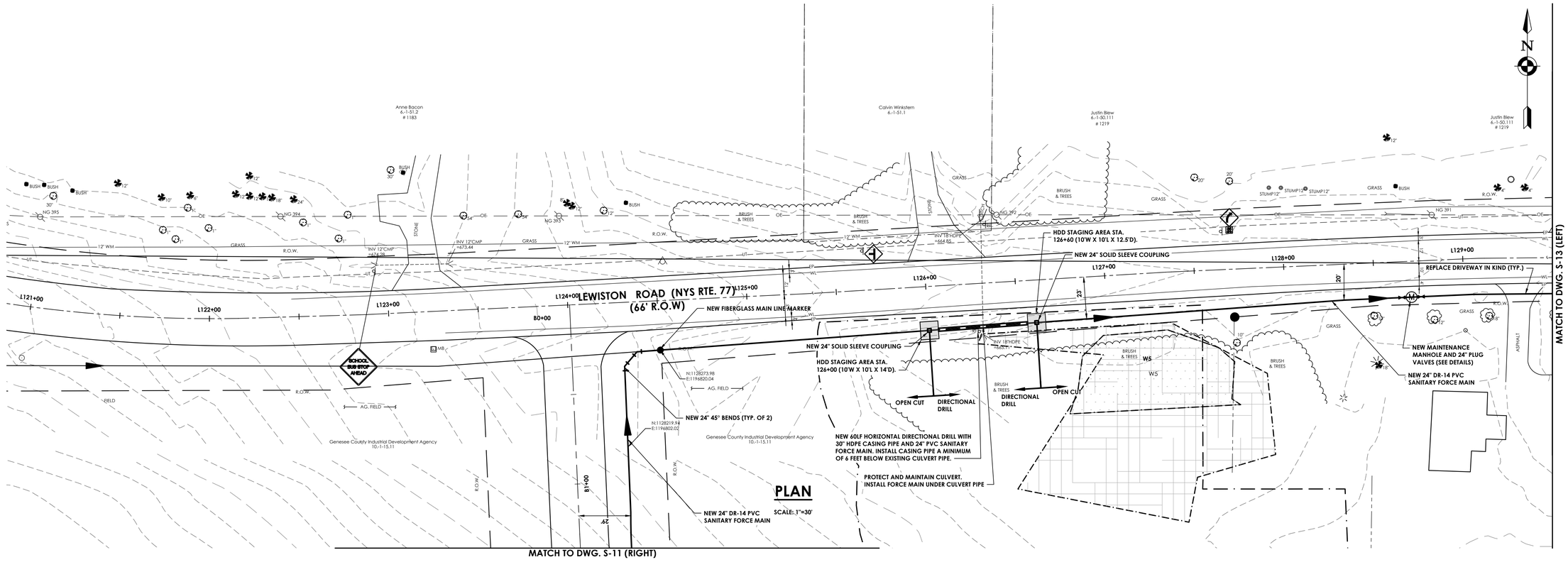
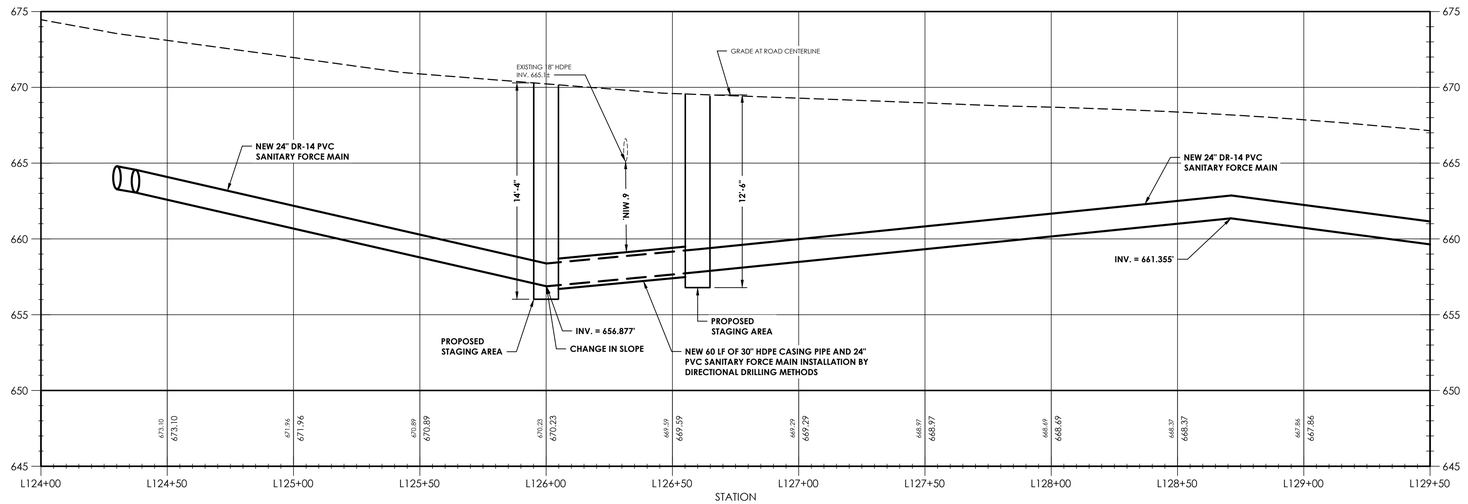
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:11 AM
Plotted By: Nicole Cullen


MATCH TO DWG. S-10 (RIGHT)
SB-201 Offsite
FUTURE BYPASS ROAD
(100' R.O.W)
82+00
83+00
84+00
B1+00
80+00
NEW 24" 45° BENDS (TYP. OF 2)
42'
75'
N:1128120.32
E:1196808.65
N:1128219.94
E:1196802.02
N:1128273.98
E:1196820.54
N:1127934.57
E:1196866.18
N:1128024.88
E:1196837.47
NEW 24" DR-14 PVC SANITARY FORCE MAIN
NEW FIBERGLASS MAIN LINE MARKER
NEW FIBERGLASS MAIN LINE MARKER
Genesee County Industrial Development Agency
10-1-15.11
Genesee County Industrial Development Agency
10-1-15.11
LEWISTON ROAD (NYS RTE. 77)
(66' R.O.W)
1230+00
1231+00
1232+00
1233+00
R.O.W.
R.O.W.
STONE
CEDAR
MARSH
MARSH
MARSH
WOODS
WOODS
WOODS

Plotted By: Nicole Cullen
Date last plotted: 10/28/2020 10:12 AM
Date last accessed: 10/28/2020 10:03 AM
Drawing Name: J:_PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-01 TO S-22.dwg





LEWISTON ROAD
STA. L124+00 TO STA. L129+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
FAX (585) 454-7618

REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. L121+00
TO STA. L129+50

PROJECT NUMBER
14822.00

FM
S-12
DRAWING NUMBER

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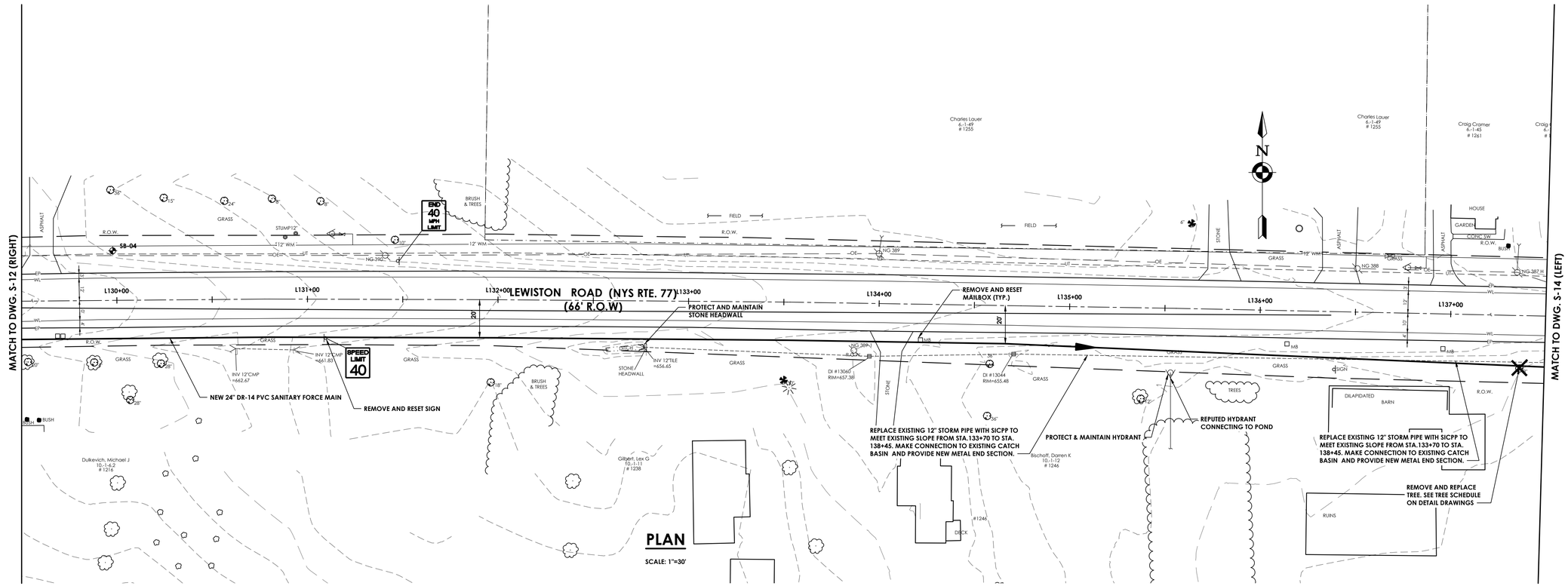

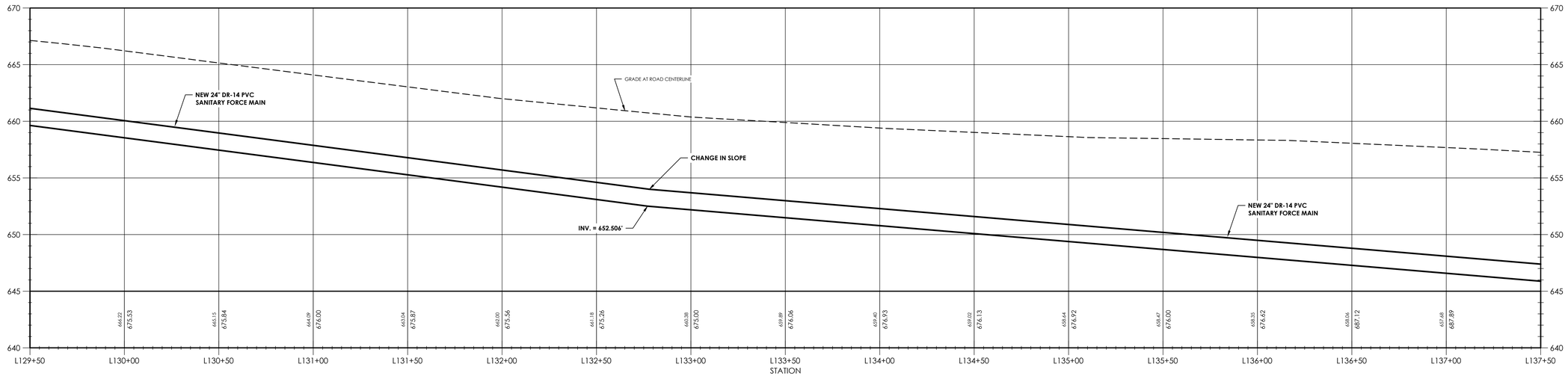

LEWISTON ROAD
STA. L129+50 TO STA. L137+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION; NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. L129+50 TO STA. L137+50

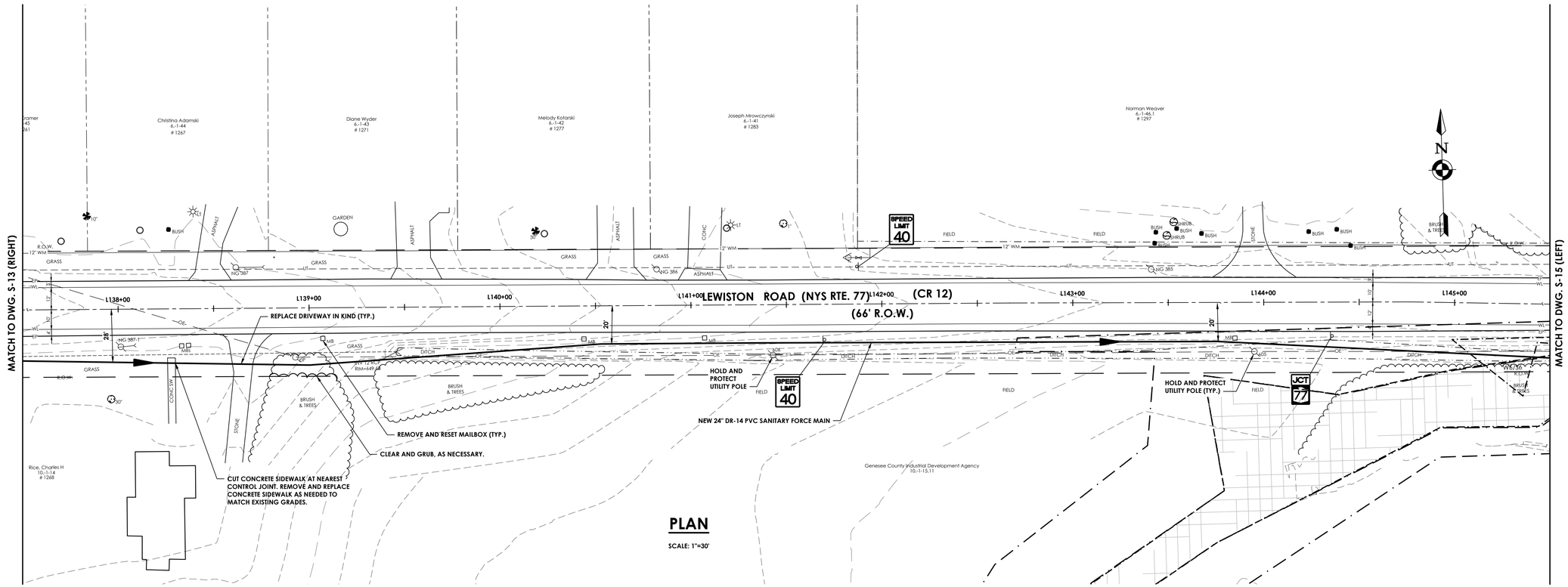
PROJECT NUMBER: 14822.00

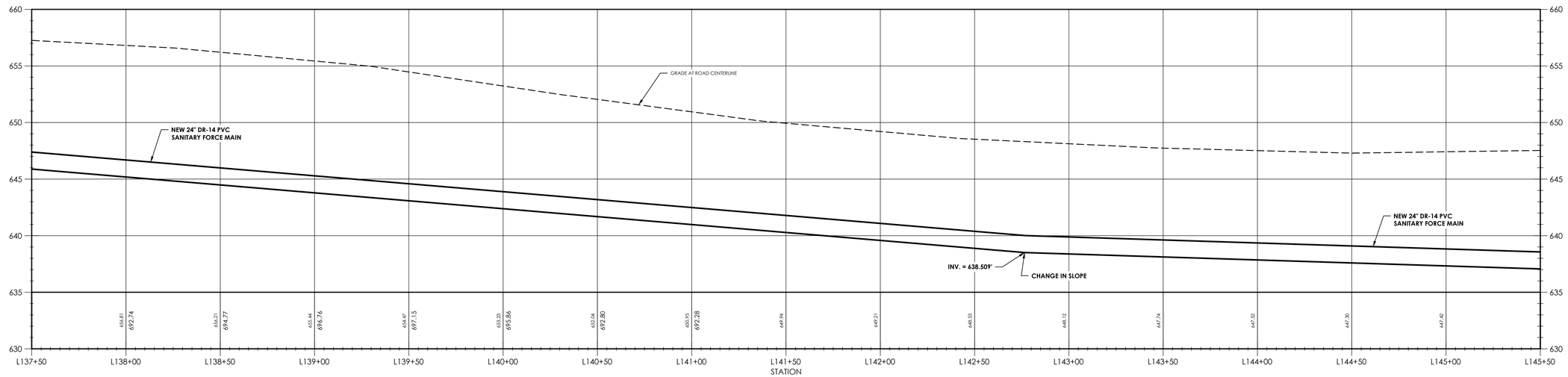
FM
S-13
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:13 AM Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-01 TO S-22.dwg
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:14 AM
Plotted By: Nicole Cullen





LEWISTON ROAD
STA. L137+50 TO STA. L145+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. L137+50
TO STA. L145+50

PROJECT NUMBER
14822.00

FM
S-14
DRAWING NUMBER

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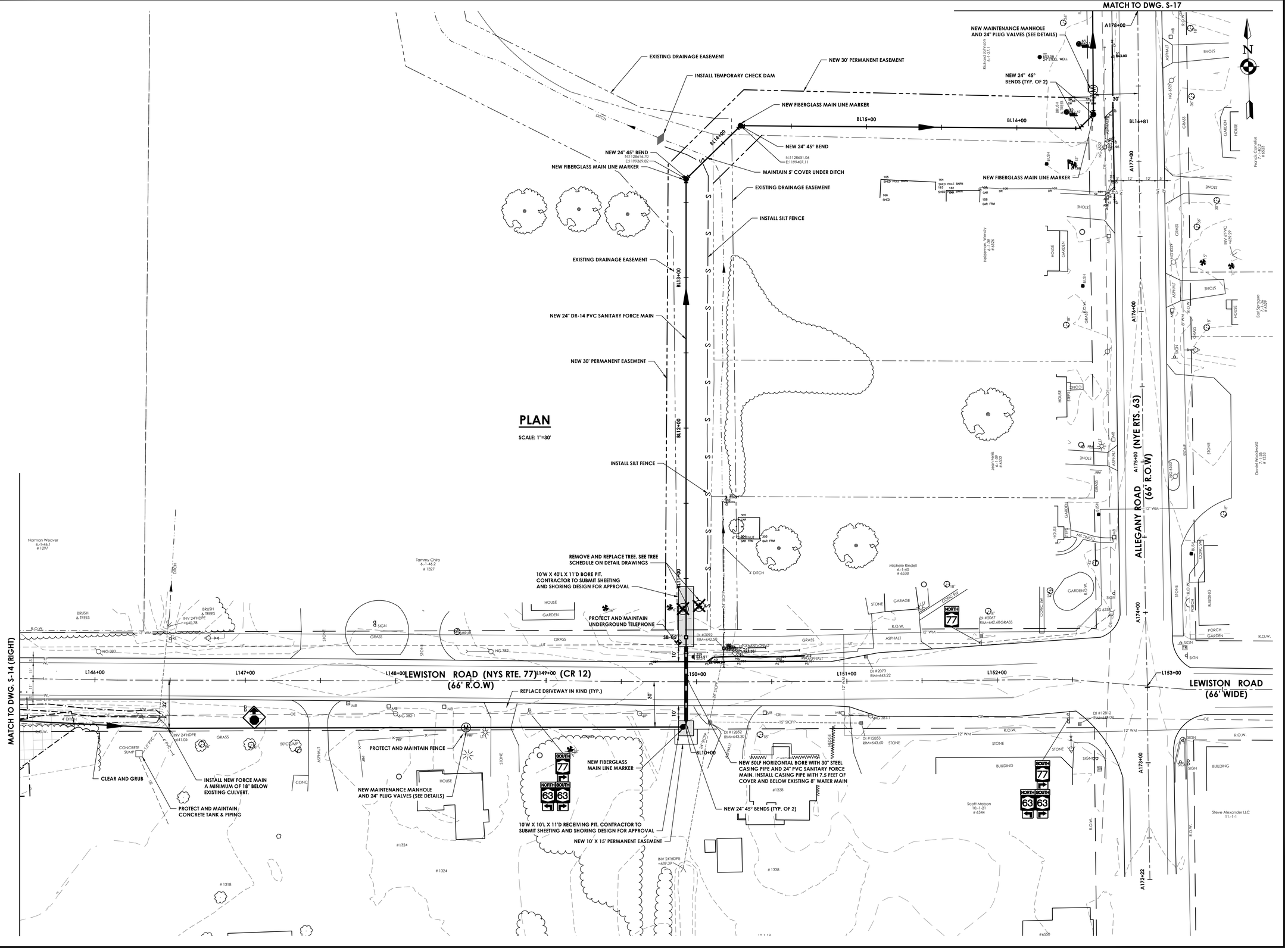
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:14 AM
Plotted By: Nicole Cullen



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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

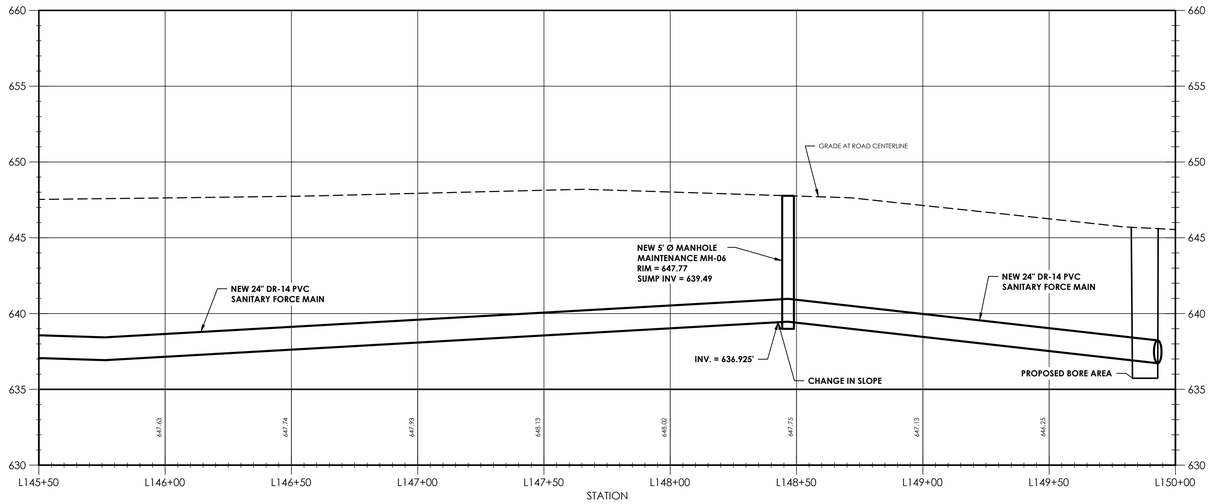
SCALE AS NOTED

SHEET TITLE
LEWISTON & BACKLOTS
PLAN STA. BL10+00
TO STA. BL17+00

PROJECT NUMBER
14822.00

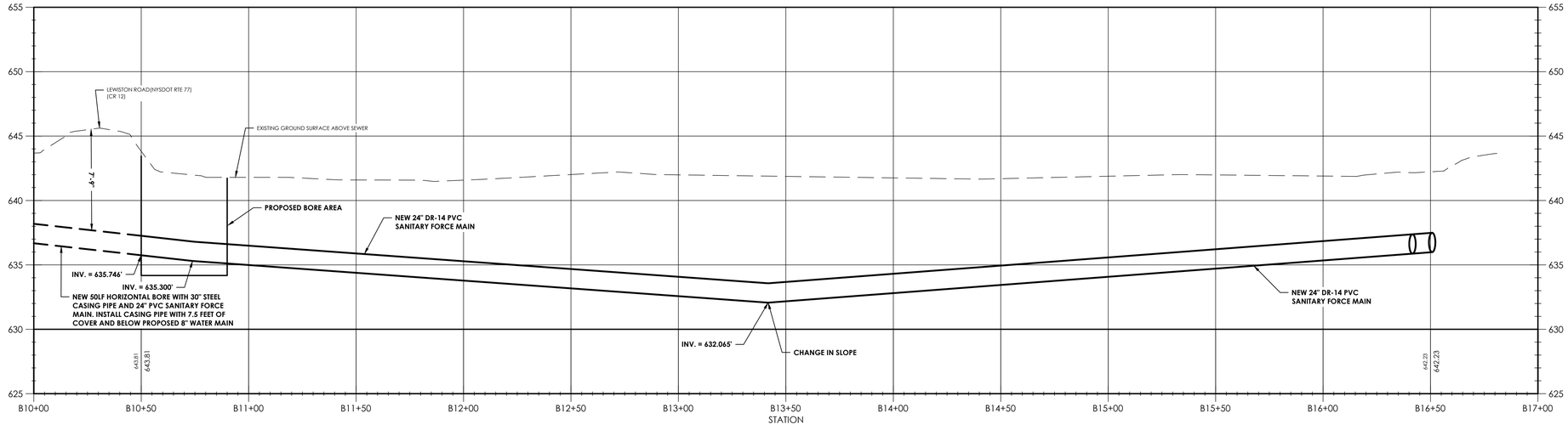
FM
S-15
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



LEWISTON ROAD
STA. L145+50 TO STA. L150+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'



BACKLOTS
STA. BL10+00 TO STA. BL17+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

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1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

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04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
LEWISTON & BACKLOTS
PROFILE STA. BL10+00
TO STA. BL17+00

PROJECT NUMBER
14822.00

FM
S-16
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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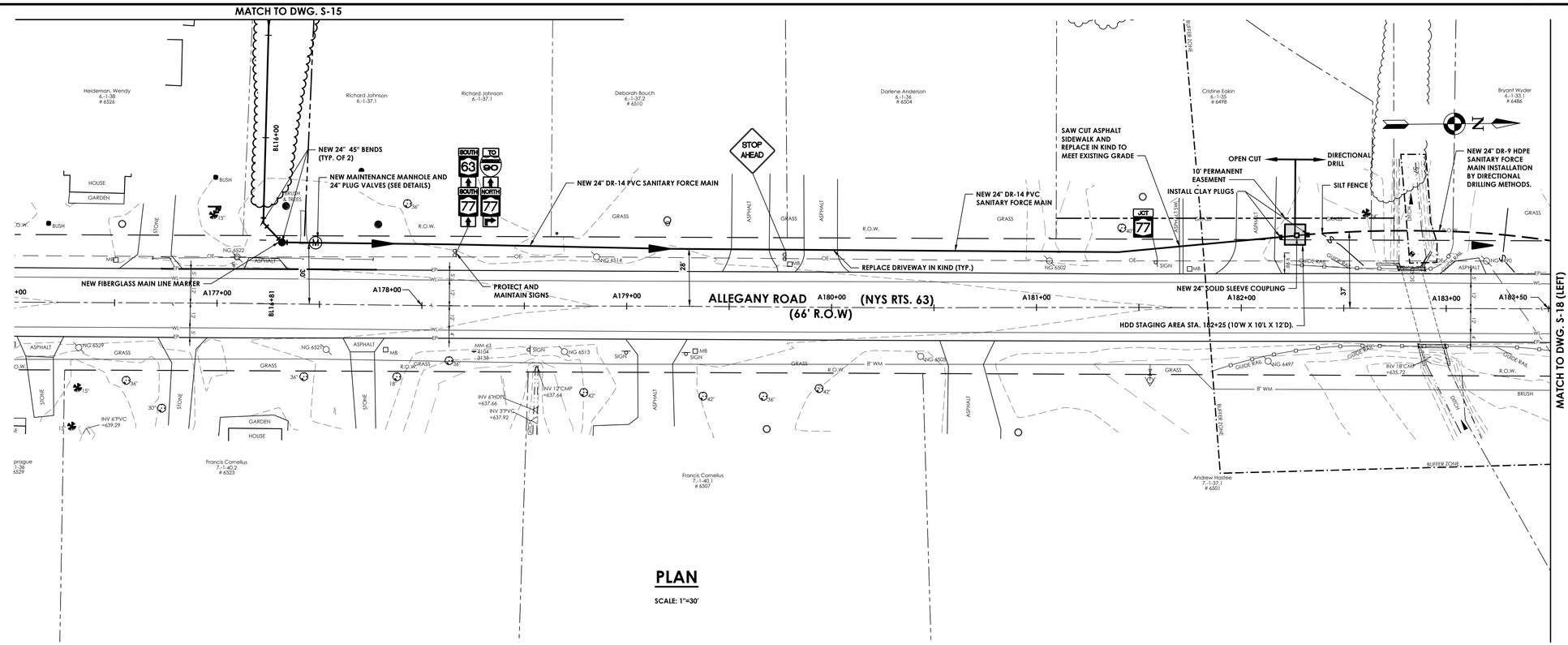
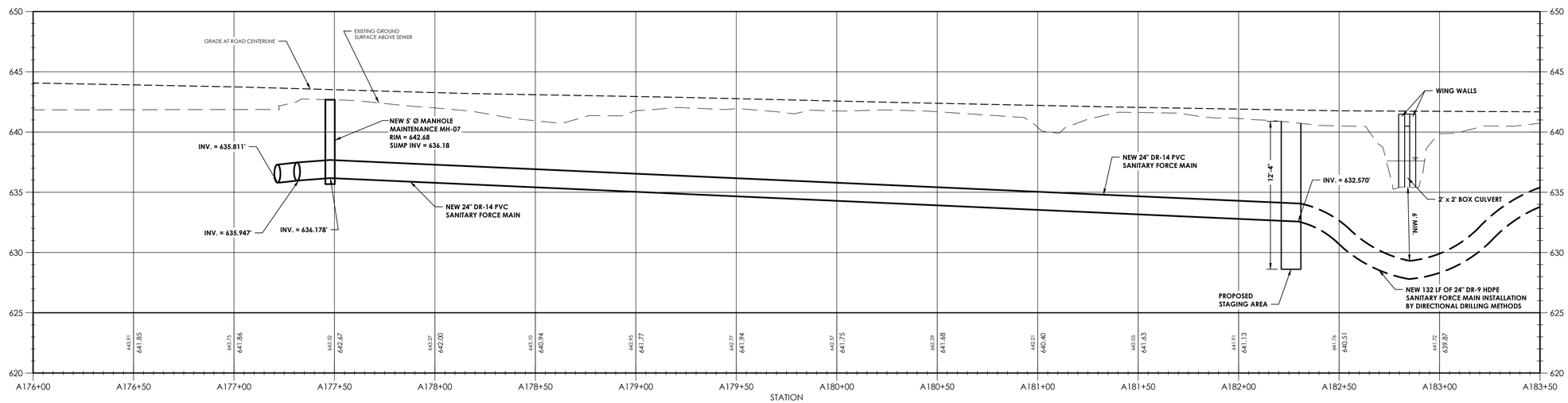
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:15 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A176+00 TO STA. A183+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A178+00
TO STA. A183+50

PROJECT NUMBER
14822.00

FM
S-17
DRAWING NUMBER

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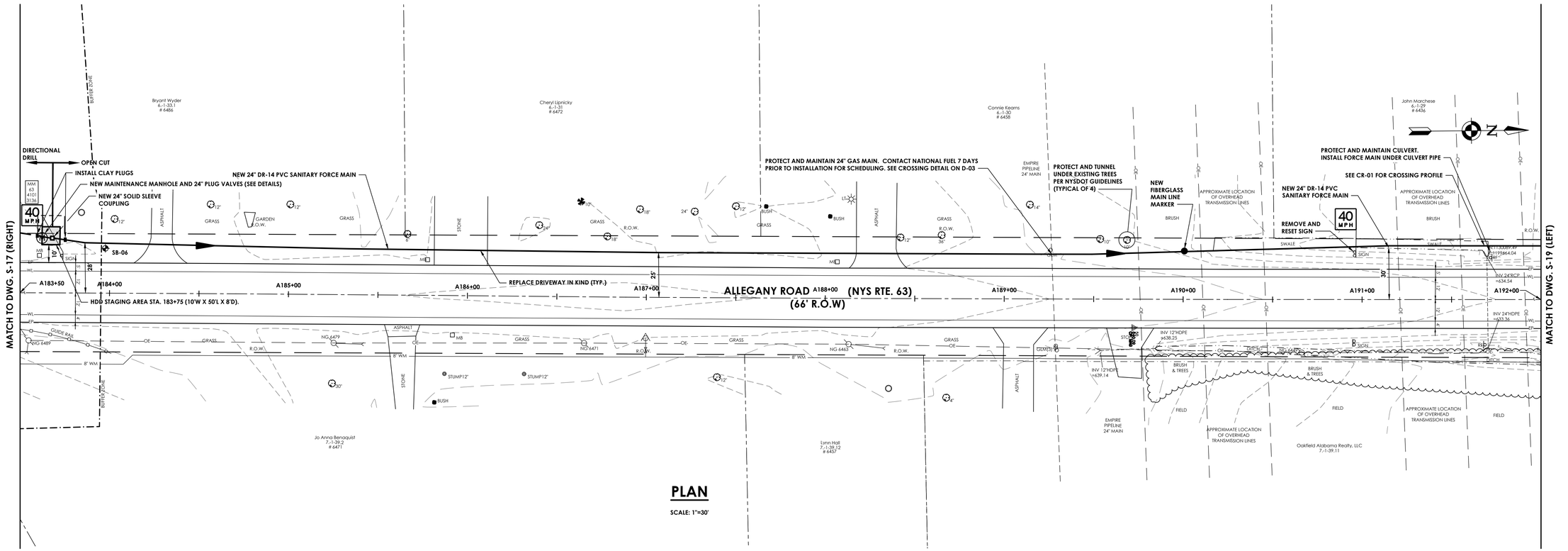

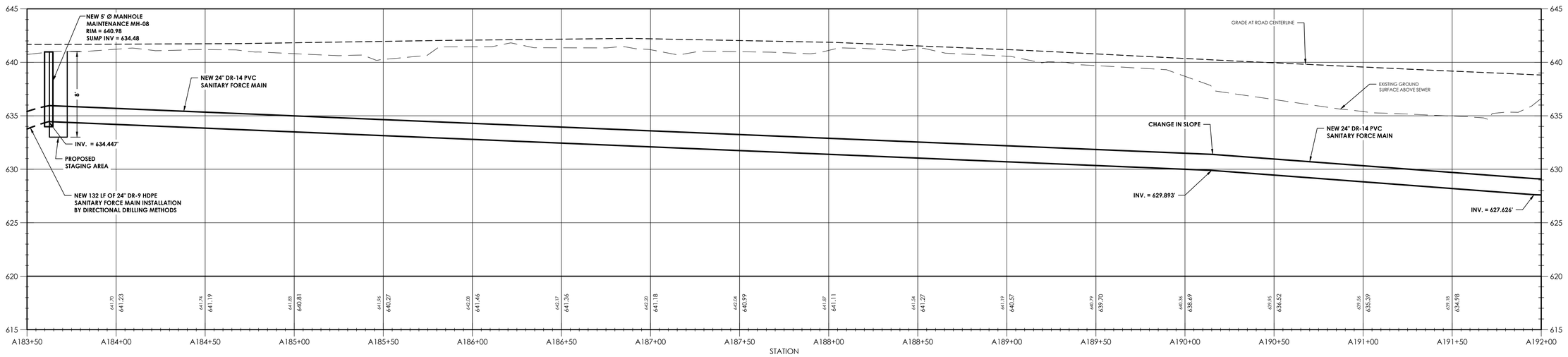

PROFILE
SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

ALLEGANY ROAD
STA. A183+50 TO STA. A192+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION / NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. A183+50 TO STA. A192+00

PROJECT NUMBER: 14822.00

DRAWING NUMBER: FM / S-18

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Date last accessed: 10/28/2020 10:03 AM
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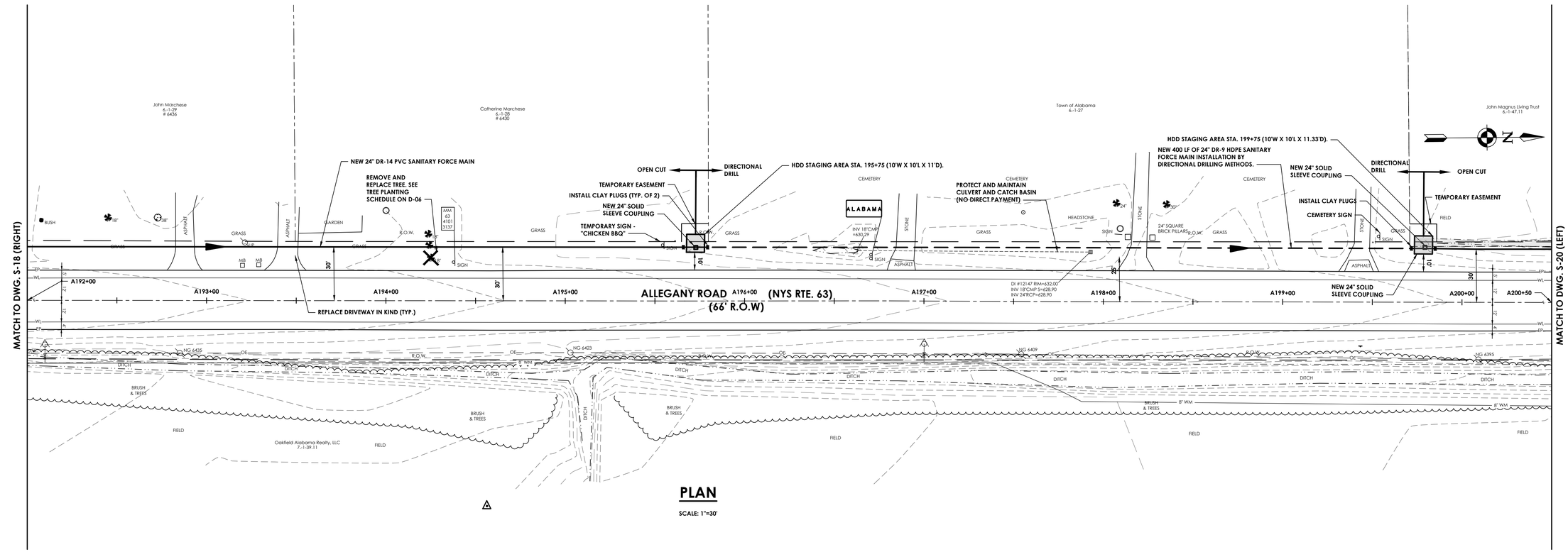

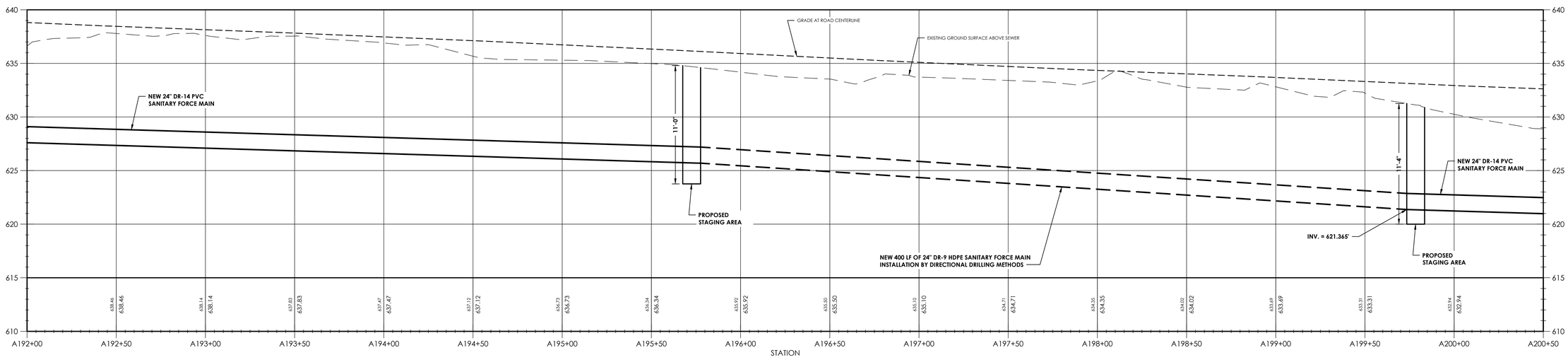

ALLEGANY ROAD
STA. A192+00 TO STA. A200+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

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04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A192+00
TO STA. A200+50

PROJECT NUMBER
14822.00

FM
S-19
DRAWING NUMBER

Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-01 TO S-22.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:16 AM Plotted By: Nicole Cullen

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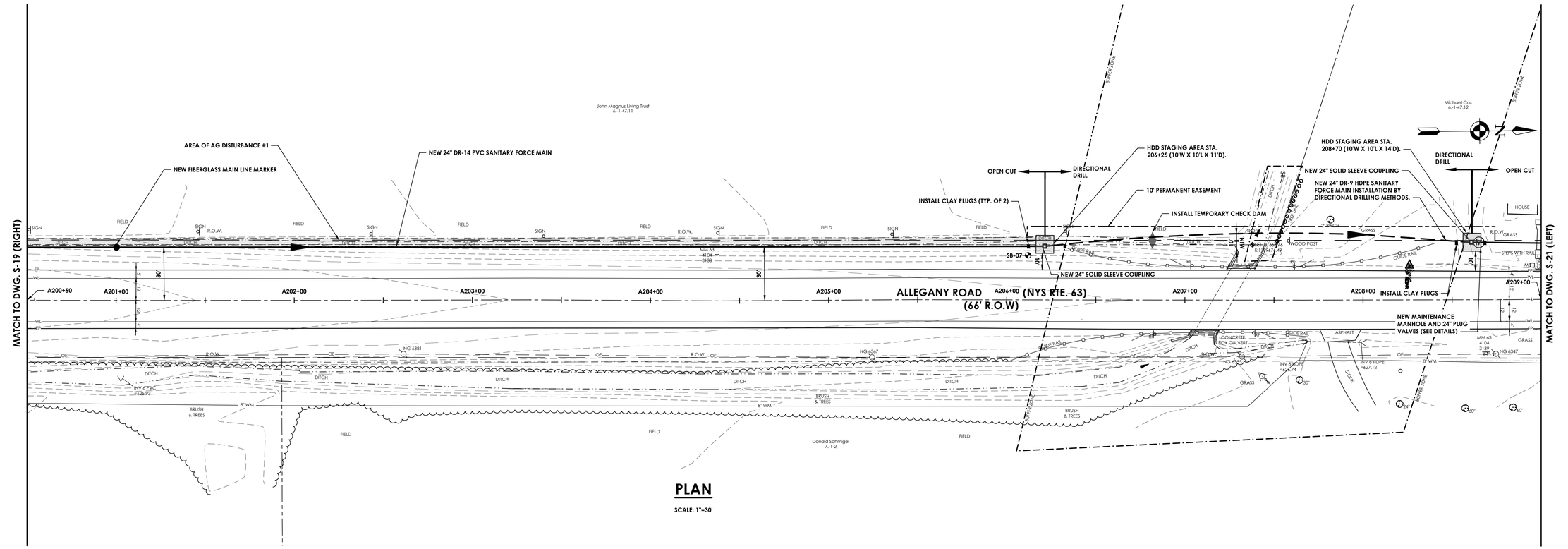

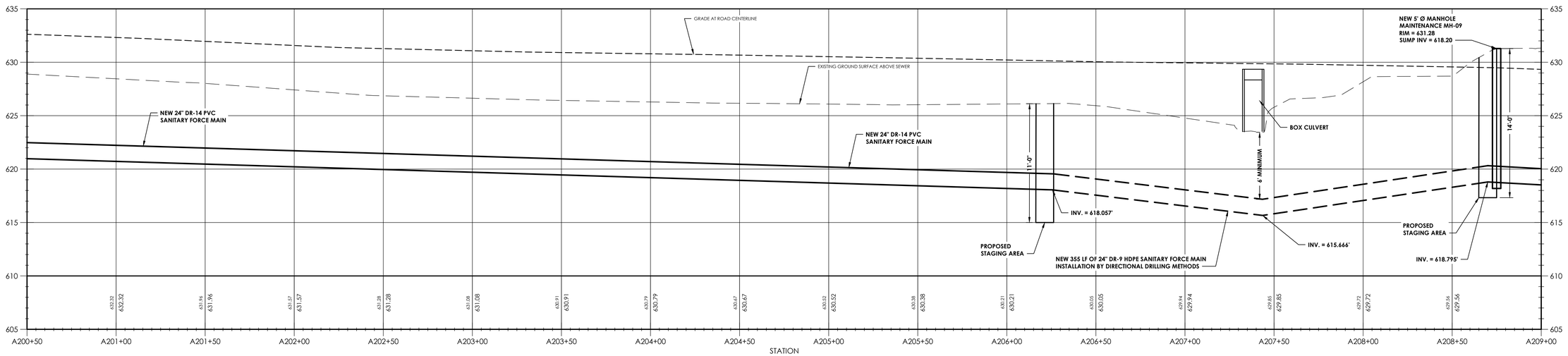

ALLEGANY ROAD
STA. A200+50 TO STA. A209+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
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1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
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SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A200+50
TO STA. A209+00

PROJECT NUMBER
14822.00

FM
S-20
DRAWING NUMBER

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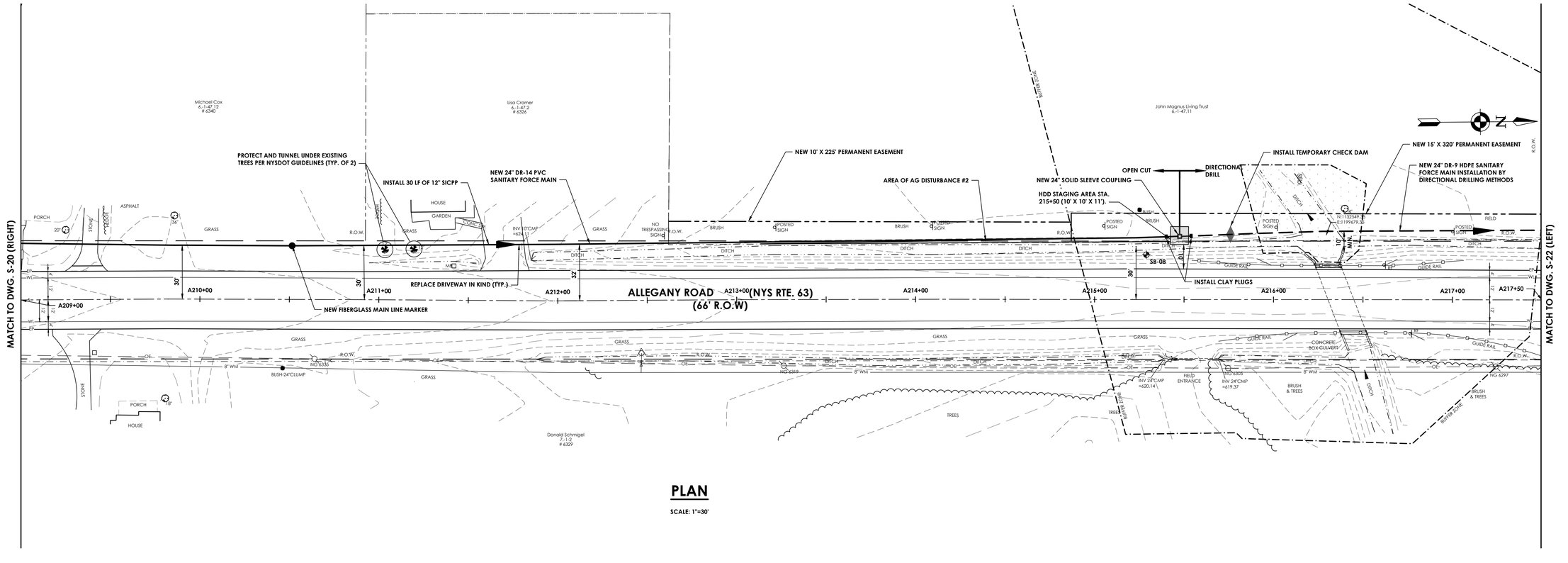
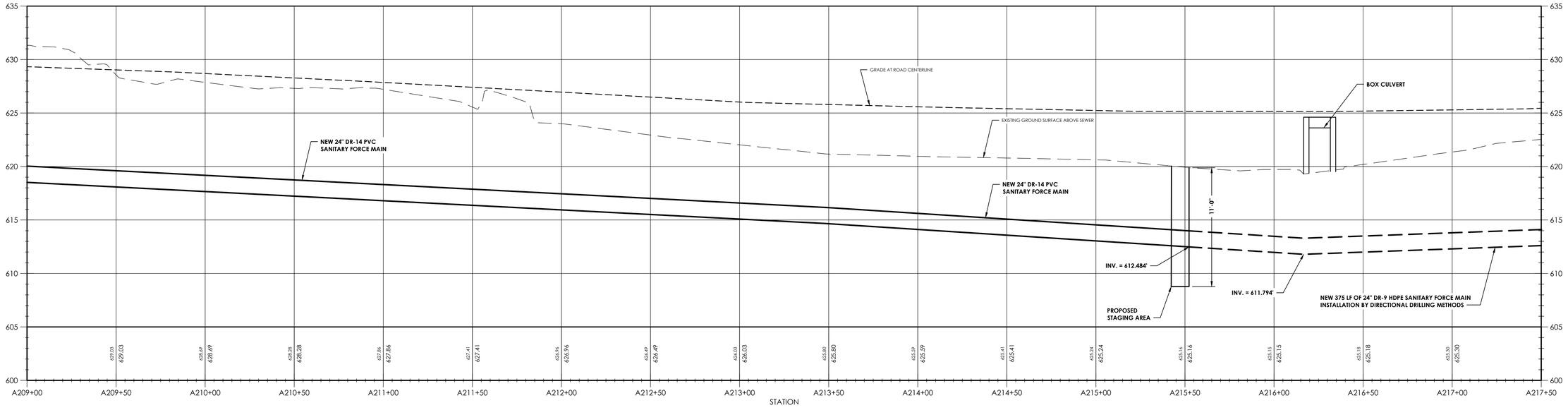


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A209+00 TO STA. A217+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

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GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

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NEW YORK

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SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A209+00
TO STA. A217+50

PROJECT NUMBER
14822.00

FM
S-21
DRAWING NUMBER

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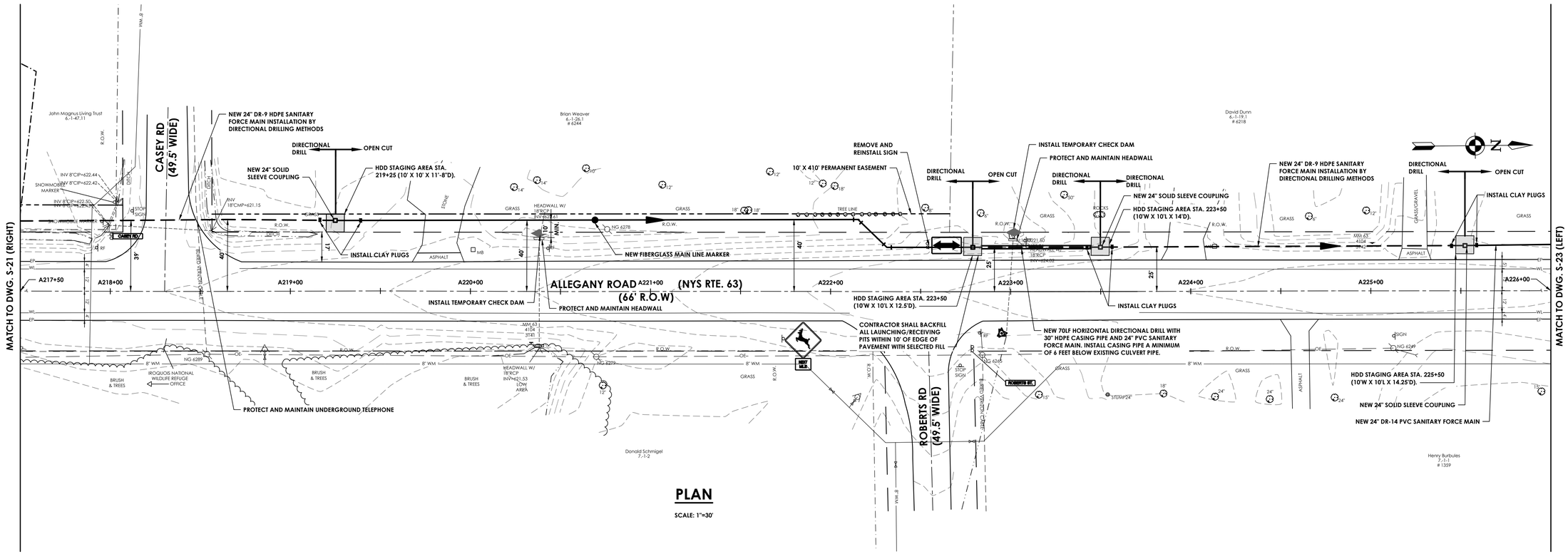
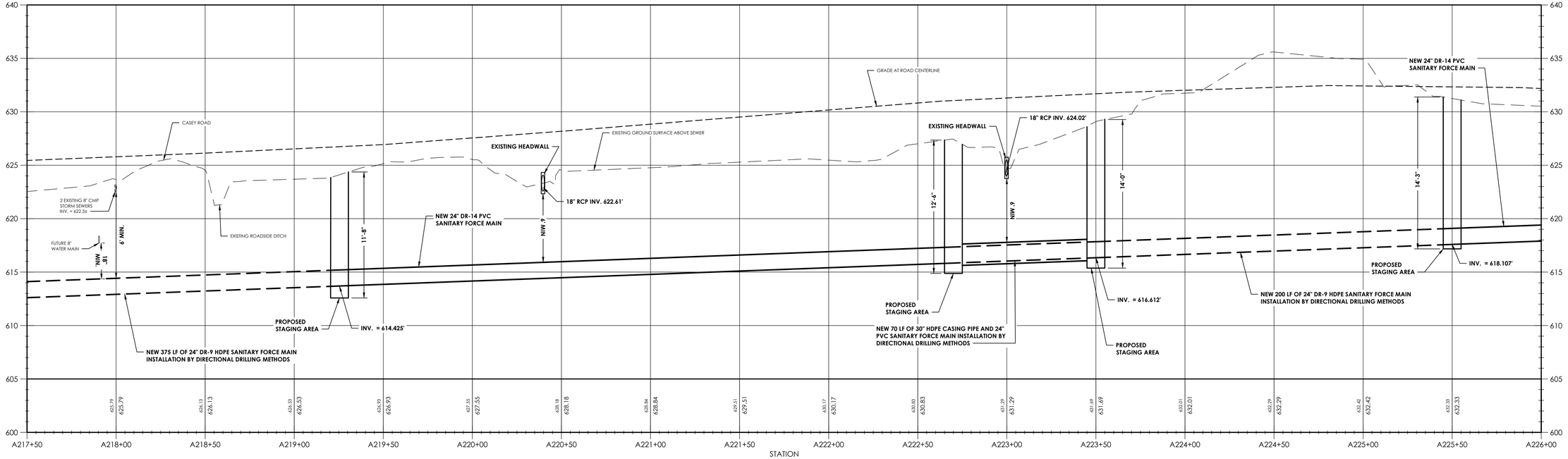


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A217+50 TO STA. A226+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

CPLteam.com
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205 ST. PAUL STREET,
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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

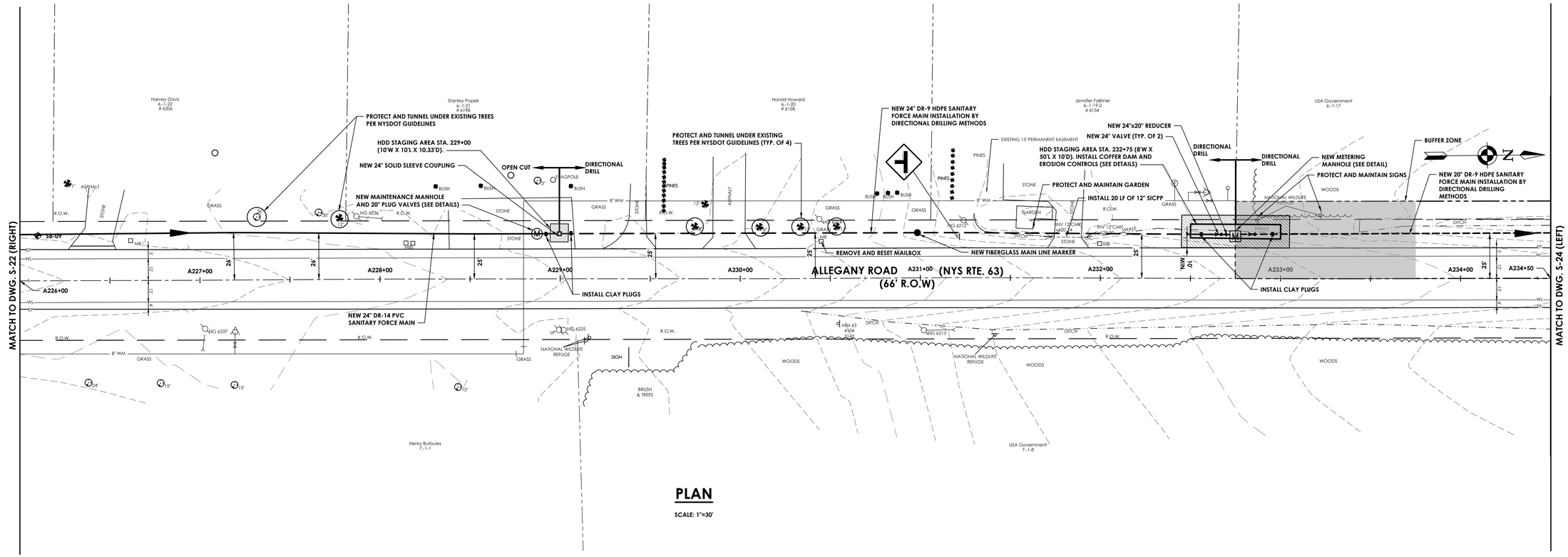
SHEET TITLE
PLAN AND PROFILE
STA. A217+50
TO STA. A226+00

PROJECT NUMBER
14822.00

FM
S-22
DRAWING NUMBER

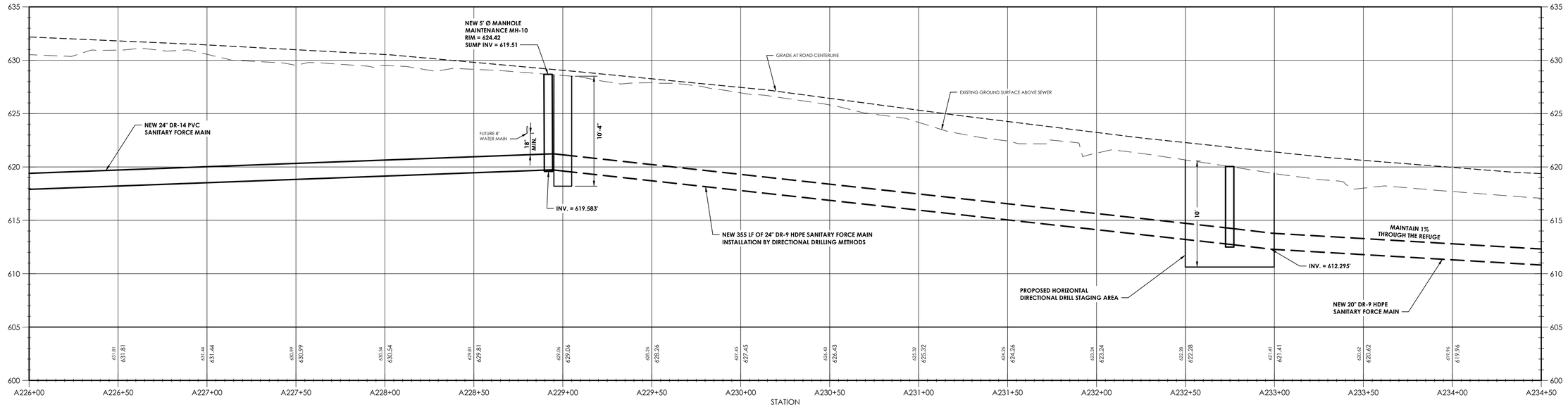
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg
Date last accessed: 10/28/2020 10:03 AM
Date last plotted: 10/28/2020 10:19 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A226+00 TO STA. A234+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A226+00
TO STA. A234+50

PROJECT NUMBER
14822.00

FM
S-23
DRAWING NUMBER

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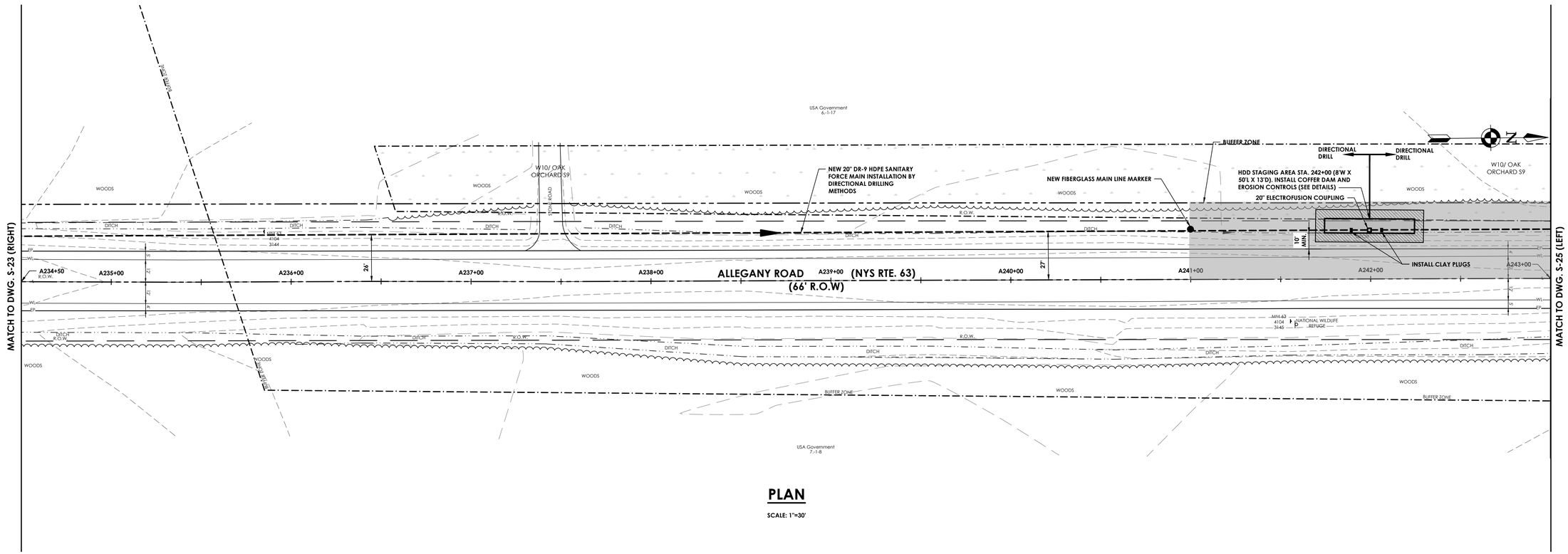
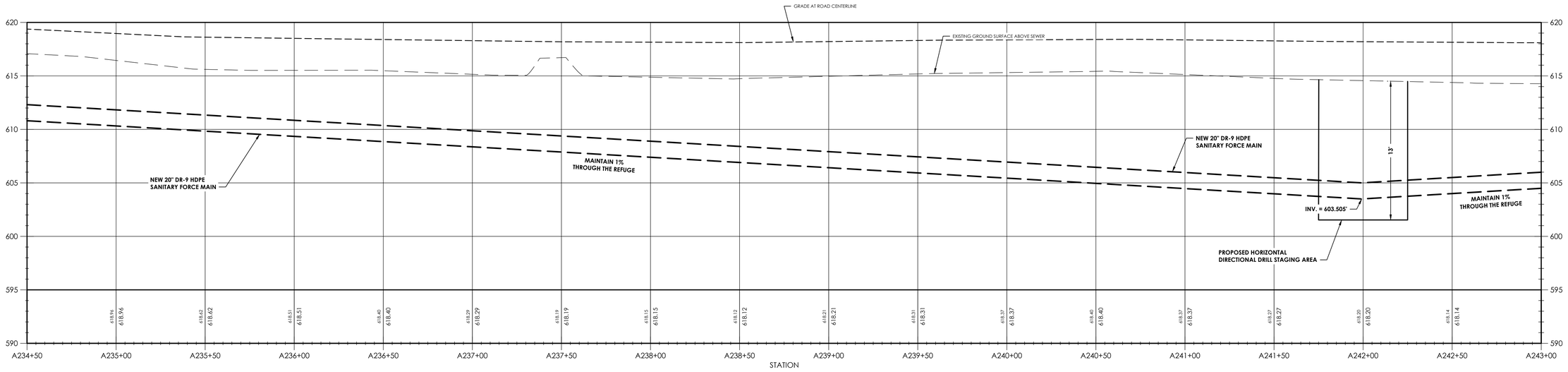


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A234+50 TO STA. A243+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

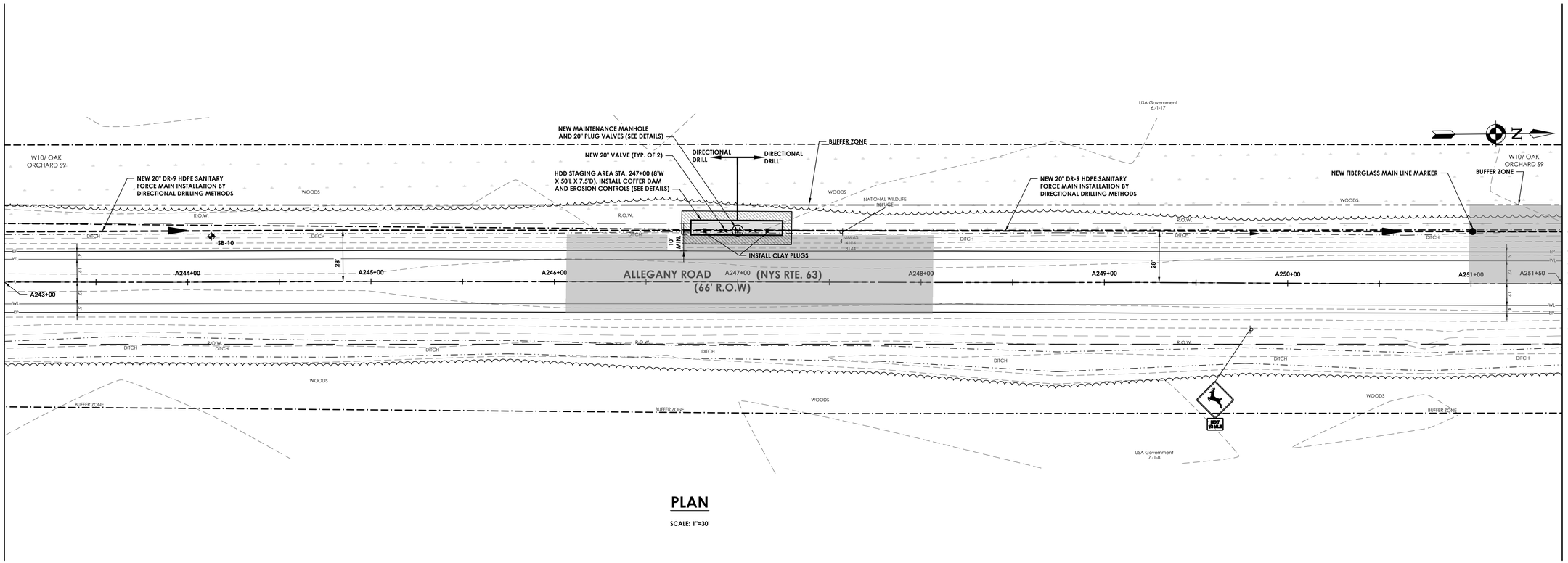
SHEET TITLE
PLAN AND PROFILE
STA. A234+50
TO STA. A243+00

PROJECT NUMBER
14822.00

FM
S-24
DRAWING NUMBER

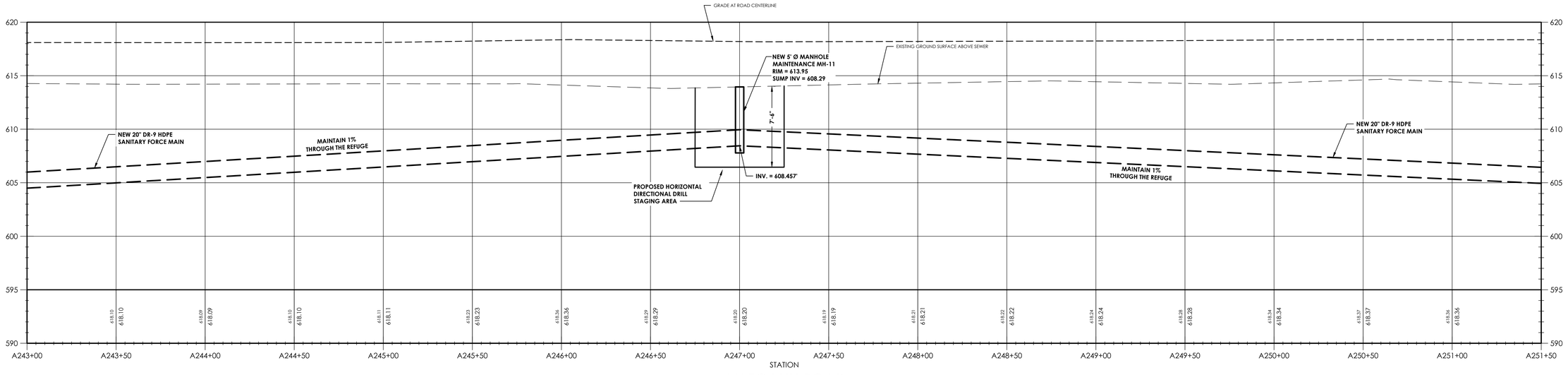
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, OVER SEAL AND THE ASSOCIATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:19 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A243+00 TO STA. A251+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A243+00
TO STA. A251+50

PROJECT NUMBER
14822.00

FM
S-25
DRAWING NUMBER

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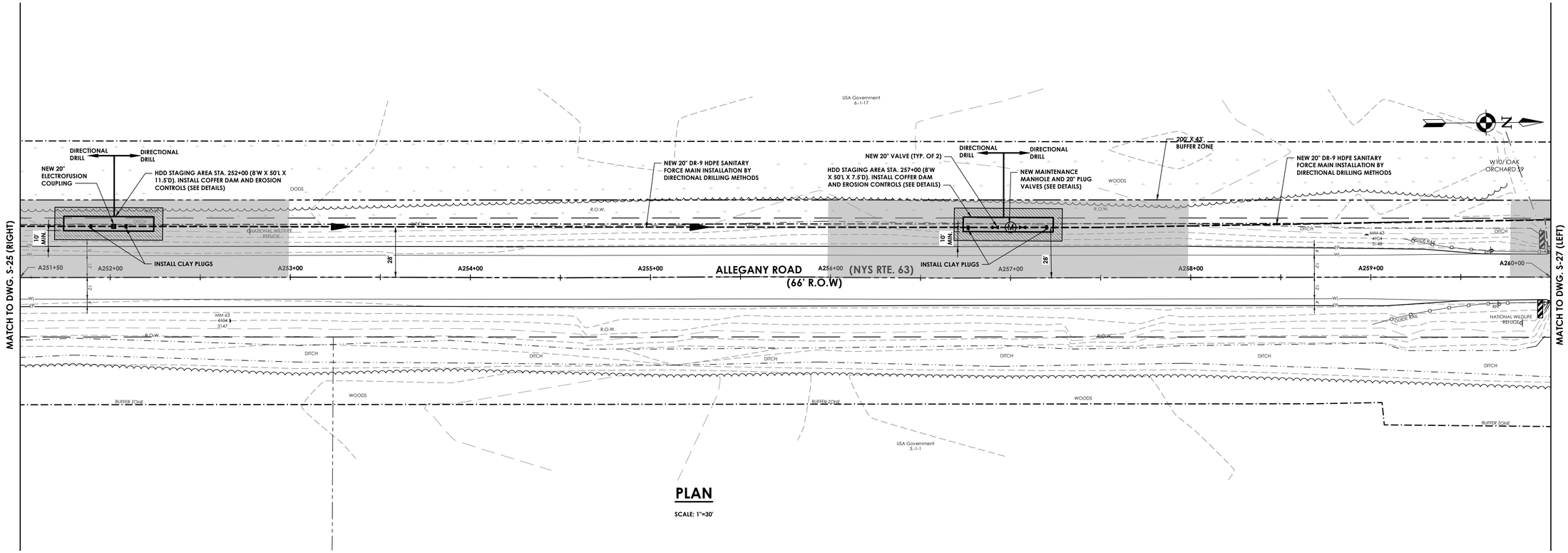
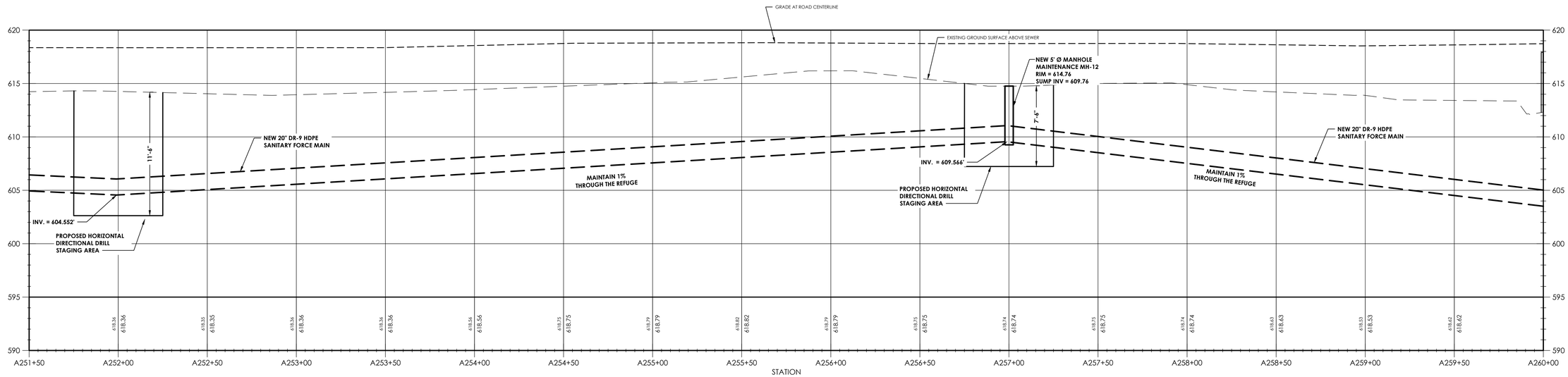


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A251+50 TO STA. A260+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

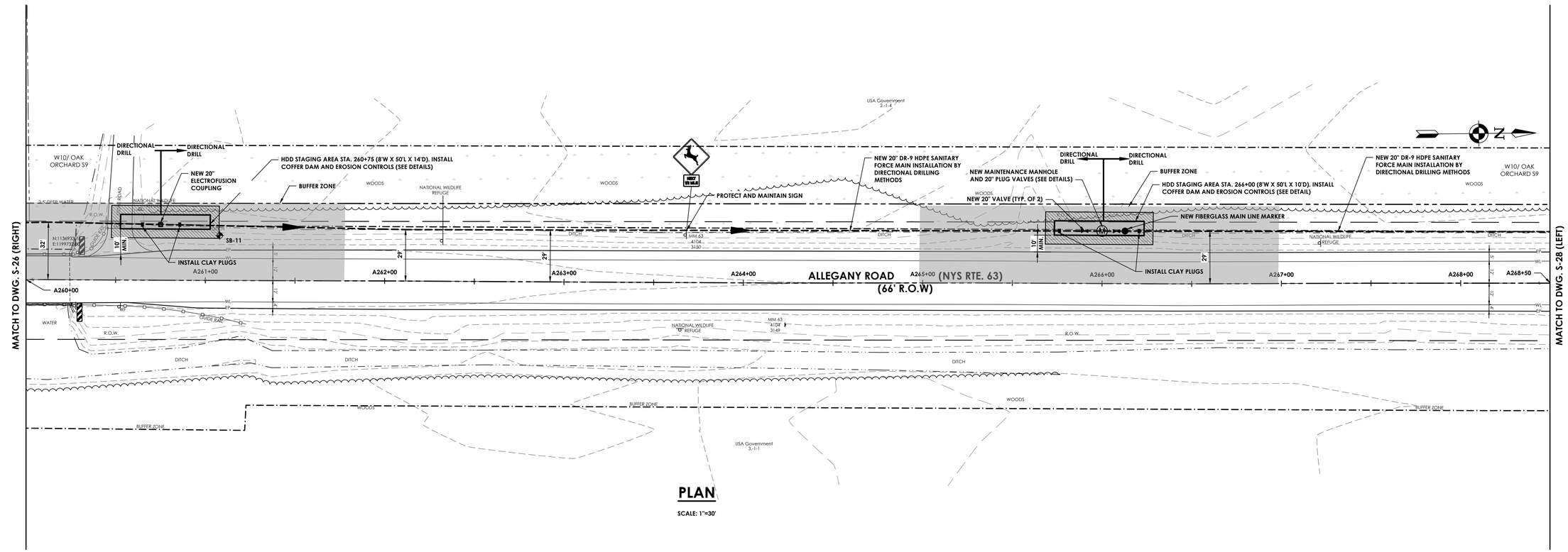
SHEET TITLE
PLAN AND PROFILE
STA. A251+50
TO STA. A260+00

PROJECT NUMBER
14822.00

FM
S-26
DRAWING NUMBER

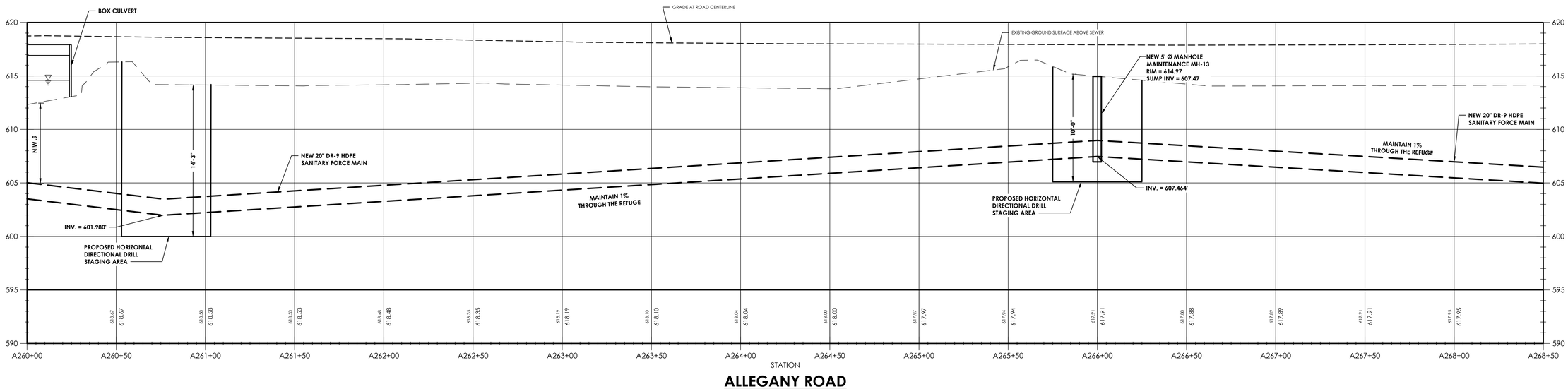
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:20 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A260+00 TO STA. A268+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

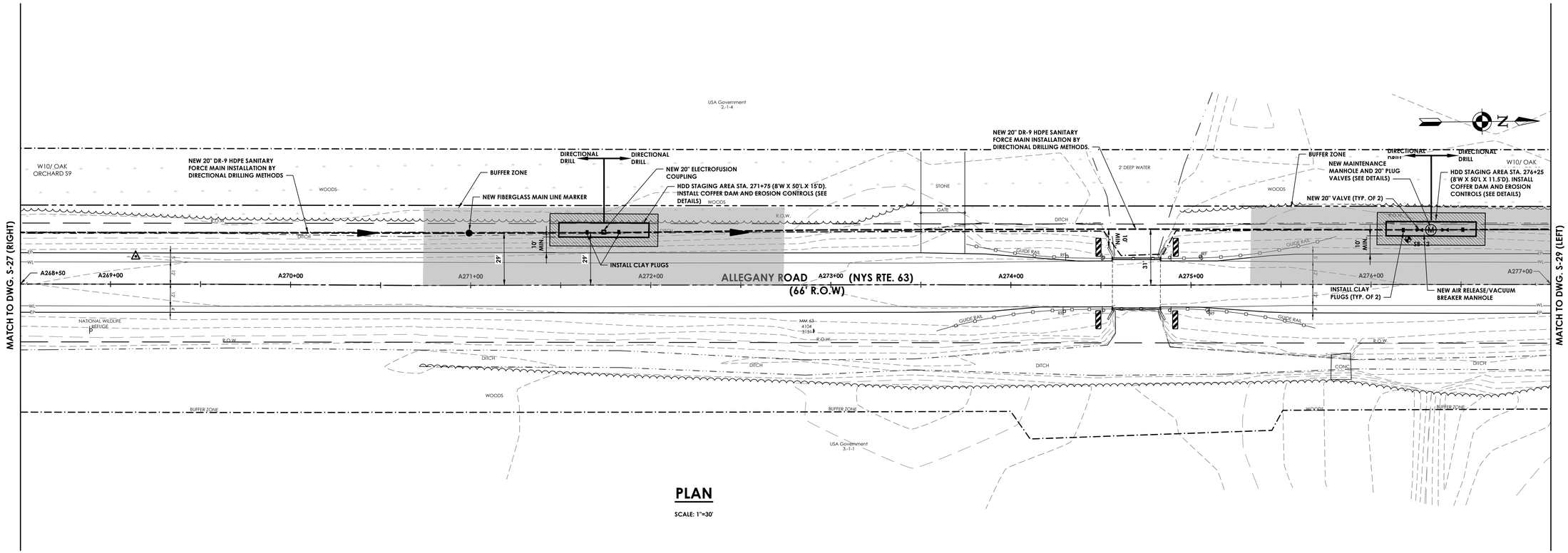
SHEET TITLE
PLAN AND PROFILE
STA. A260+00
TO STA. A268+50

PROJECT NUMBER
14822.00

FM
S-27
DRAWING NUMBER

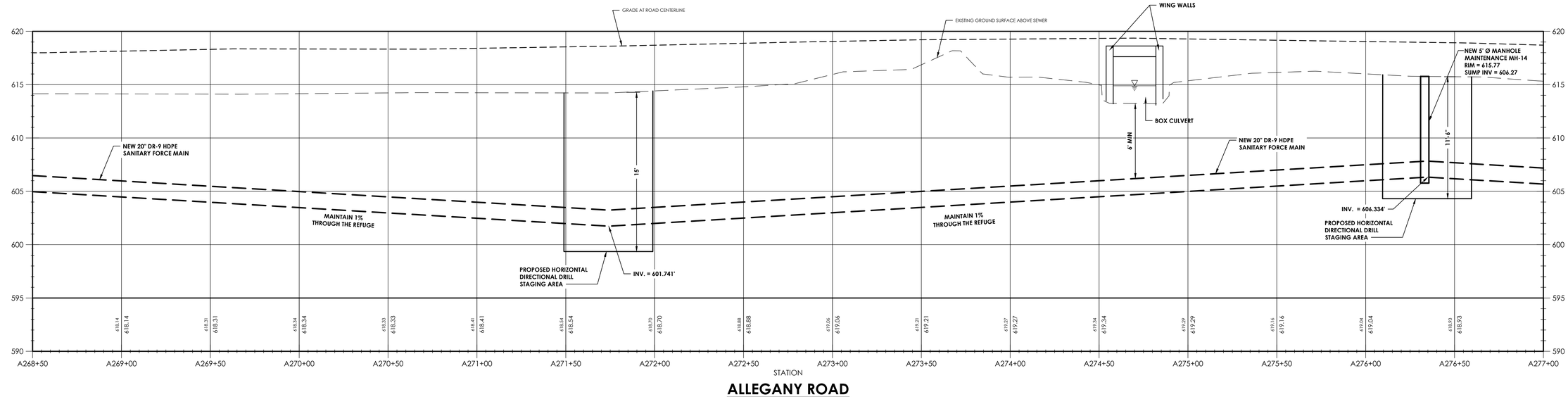
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:20 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A268+50 TO STA. A277+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION / NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. A268+50 TO STA. A277+00

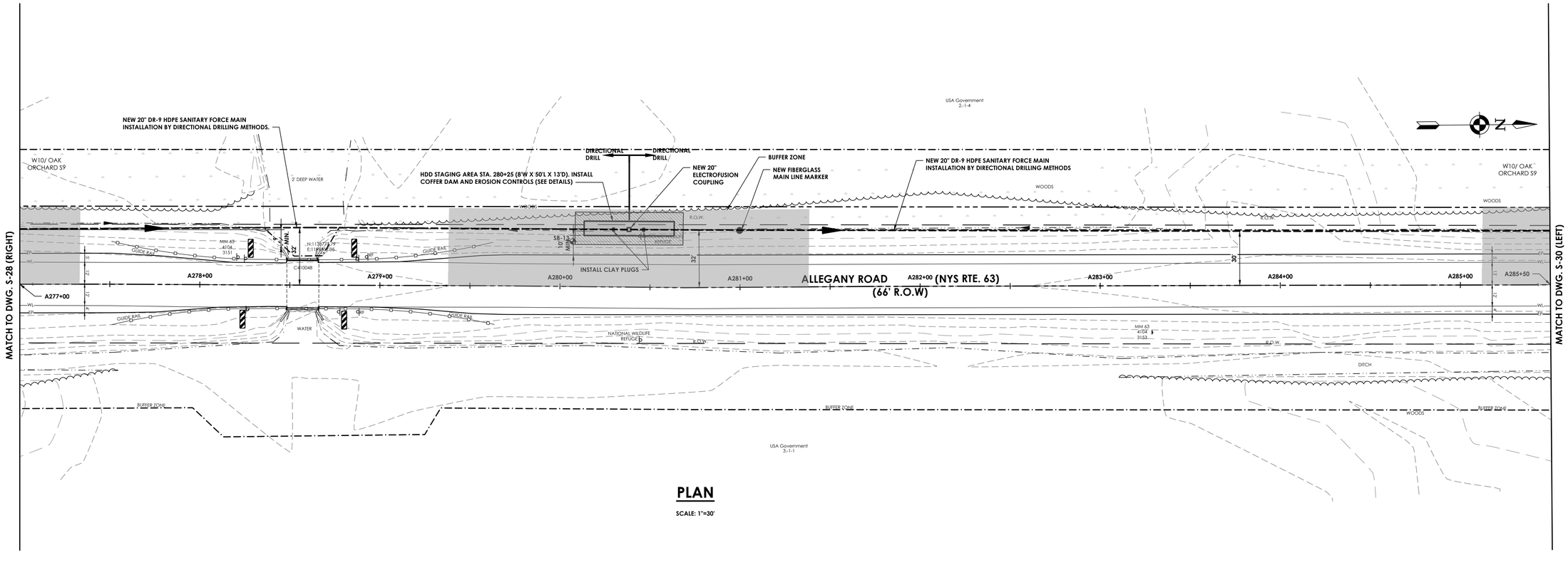
PROJECT NUMBER: 14822.00

FM
S-28
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

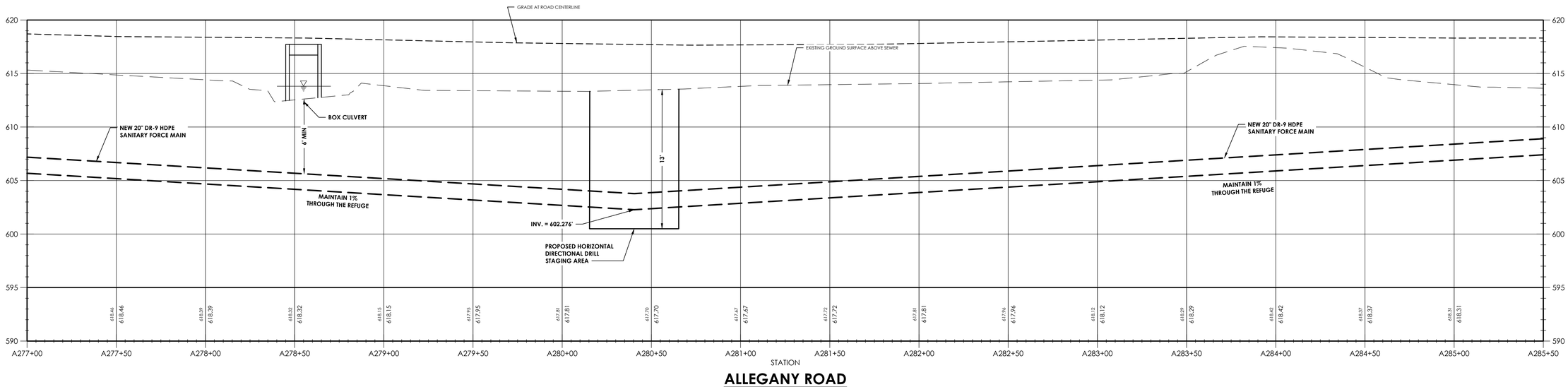
Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:20 AM Plotted By: Nicole Cullen

Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:21 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A277+00 TO STA. A285+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

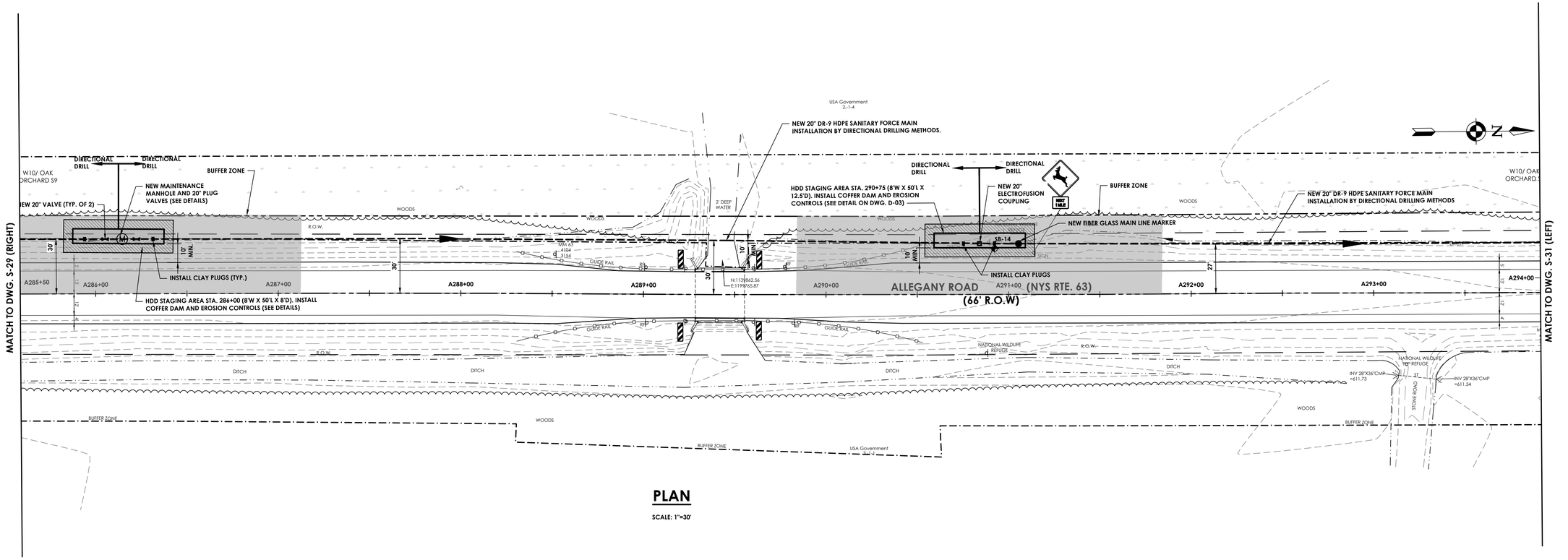
SHEET TITLE
PLAN AND PROFILE
STA. A277+00
TO STA. A285+50

PROJECT NUMBER
14822.00

FM
S-29
DRAWING NUMBER

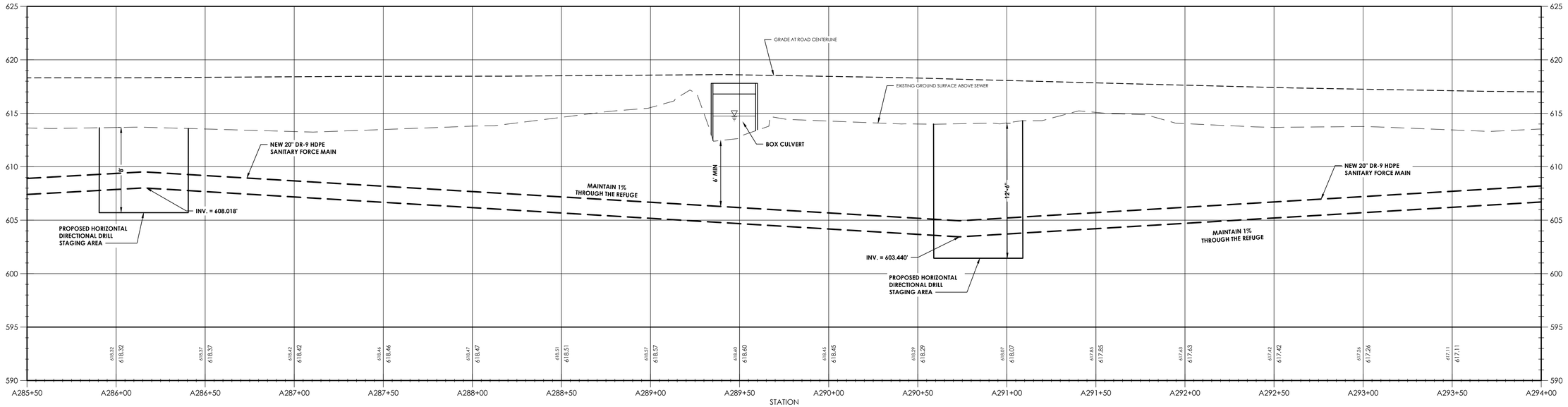
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Plotted By: Nicole Cullen
Date last plotted: 10/28/2020 10:21 AM
Date last accessed: 10/28/2020 10:03 AM
Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer_D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A285+50 TO STA. A294+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A285+50
TO STA. 294+00

PROJECT NUMBER
14822.00

FM
S-30
DRAWING NUMBER

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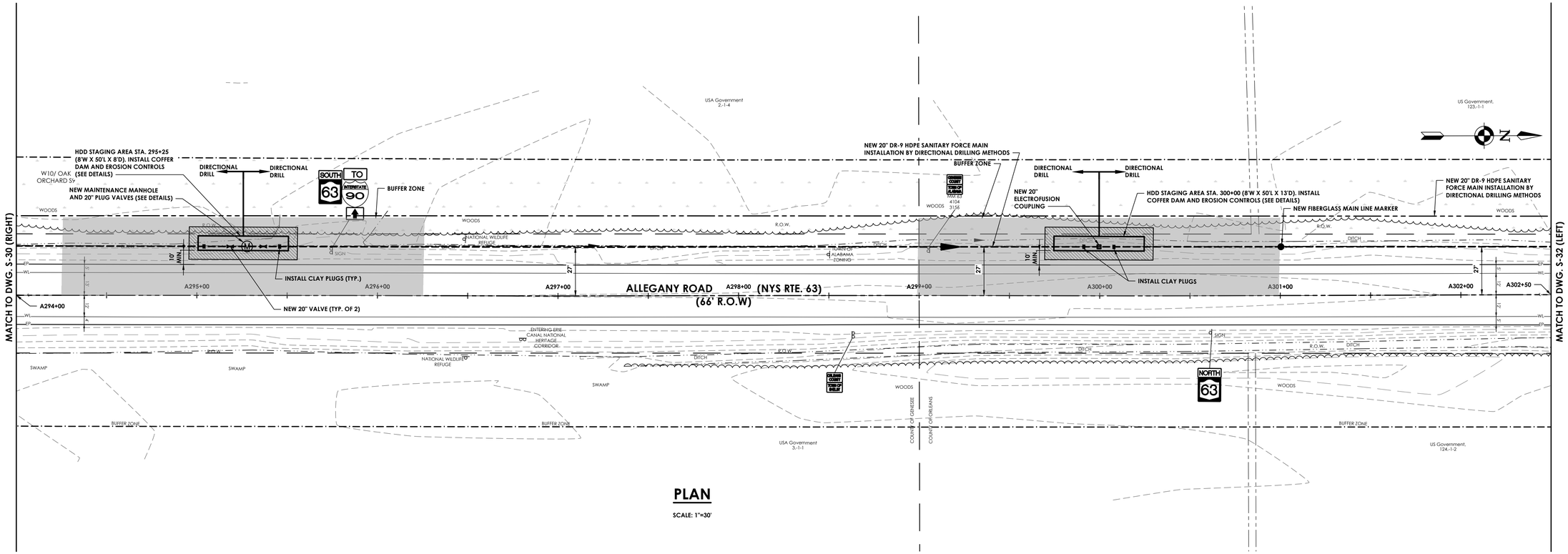
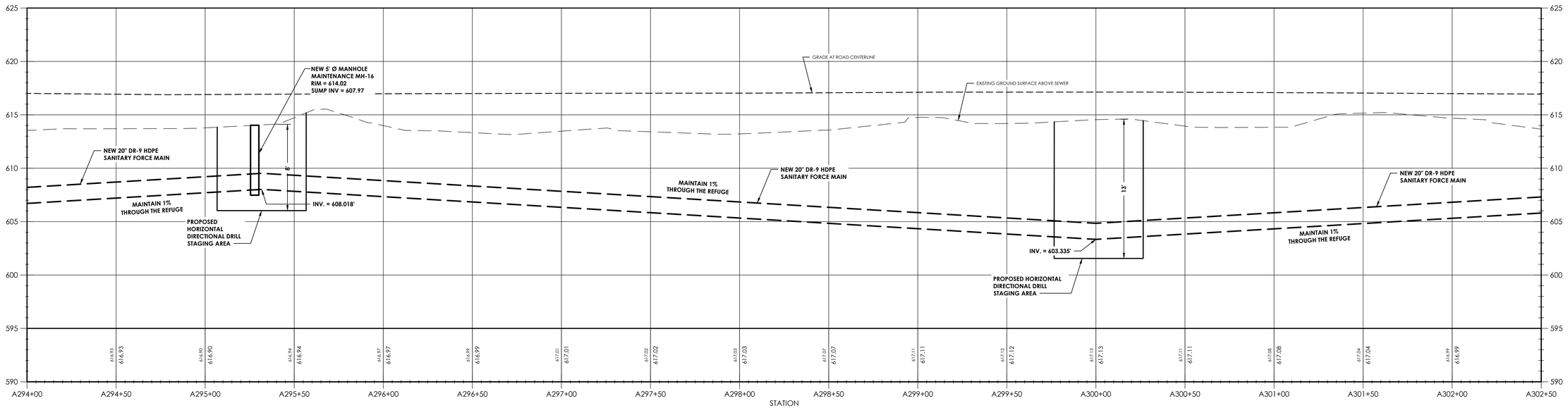
Drawing Name: J:_PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:21 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A294+00 TO STA. A302+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
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1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
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NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

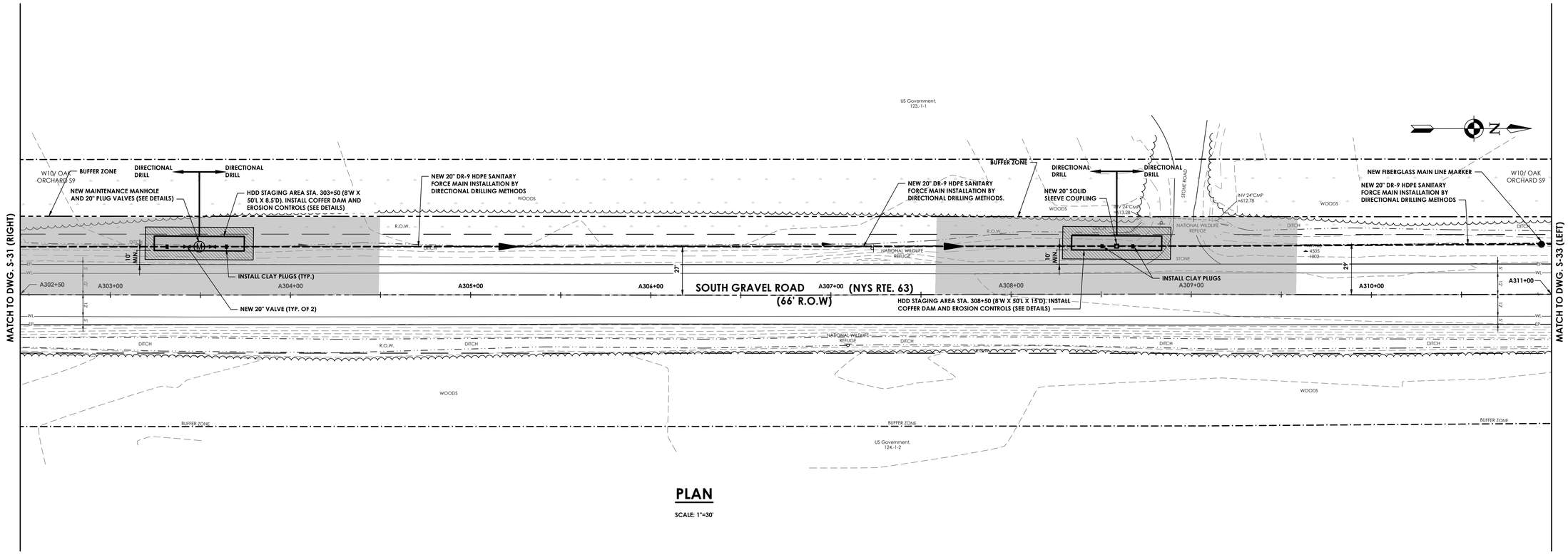
SHEET TITLE
PLAN AND PROFILE
STA. A294+00
TO STA. A302+50

PROJECT NUMBER
14822.00

FM
S-31
DRAWING NUMBER

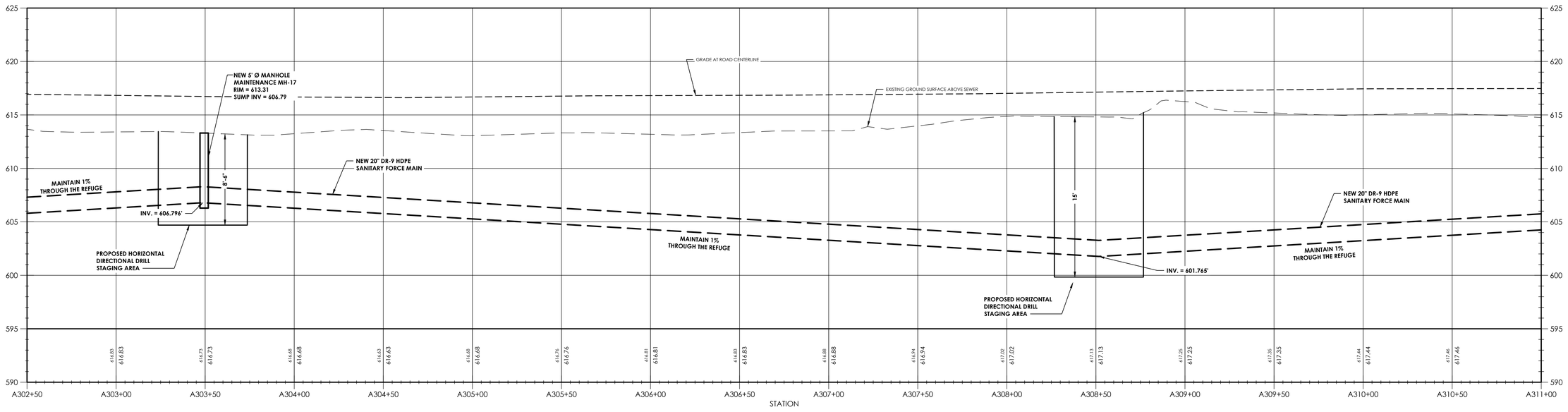
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM ON THIS PLAN. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:22 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A302+50 TO STA. A311+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A302+50
TO STA. A311+00

PROJECT NUMBER
14822.00

FM
S-32
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, NEXT TO SEAL, AND INTO ADDITION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION, AND THE DATE OF SUCH ALTERATION.

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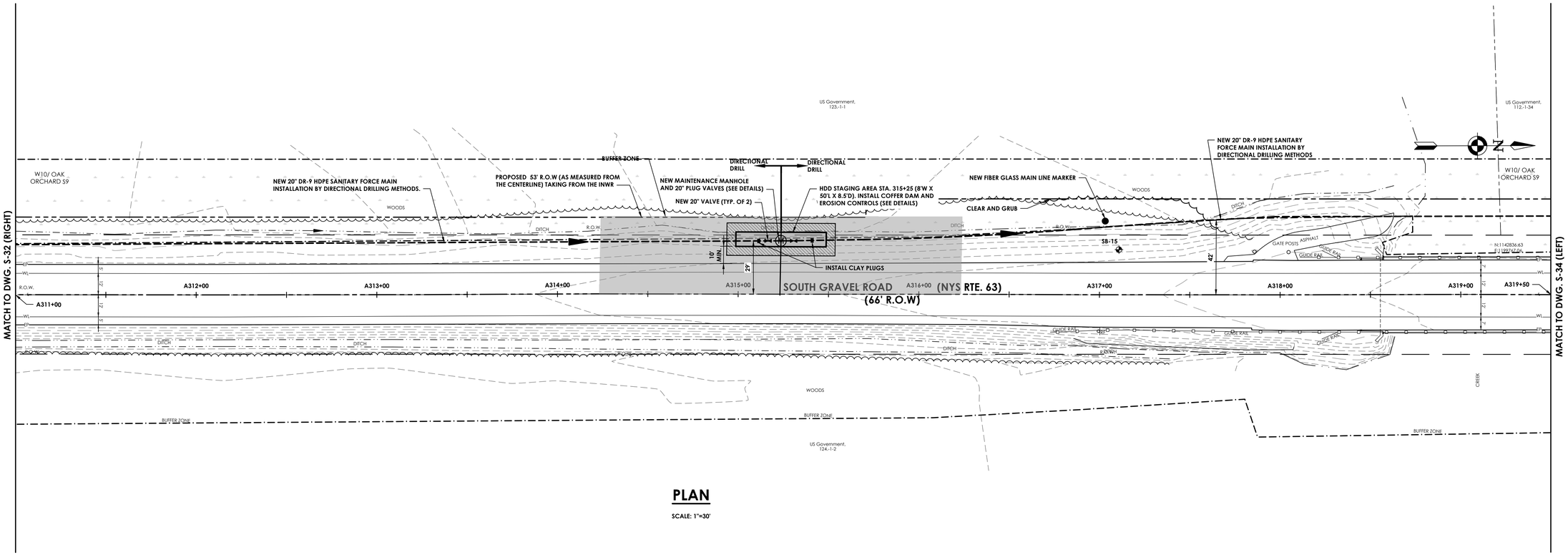
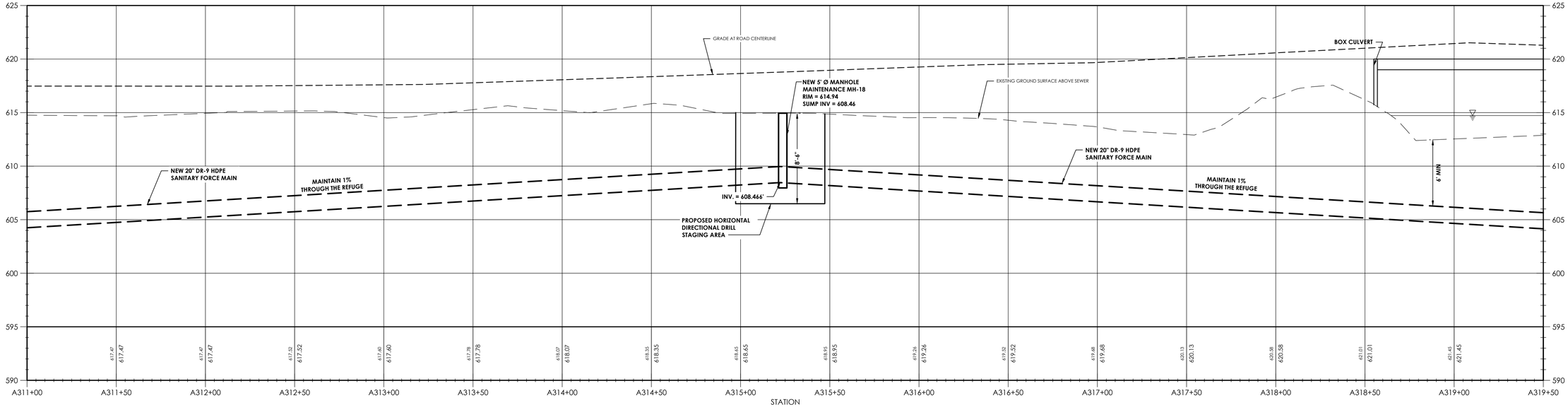


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A311+00 TO STA. A319+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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NO.	DATE	BY	CHKED	DESCRIPTION
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1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A311+00
TO STA. A319+50

PROJECT NUMBER
14822.00

FM
S-33
DRAWING NUMBER

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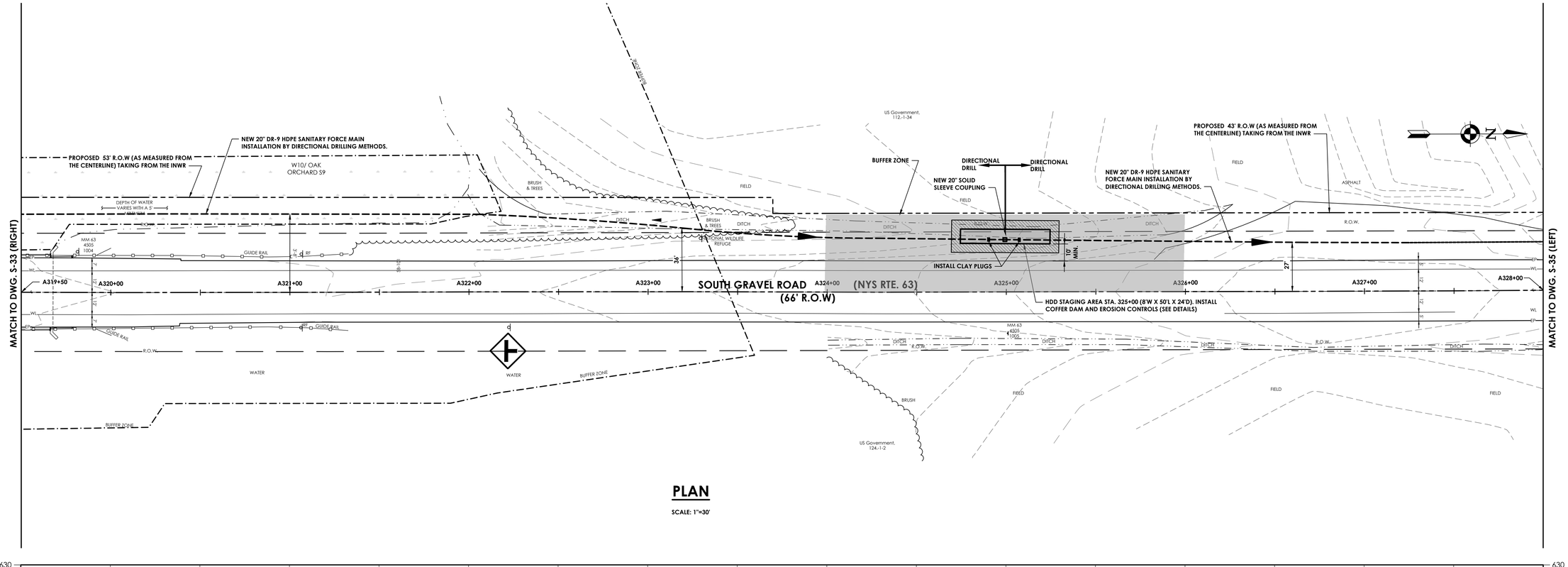
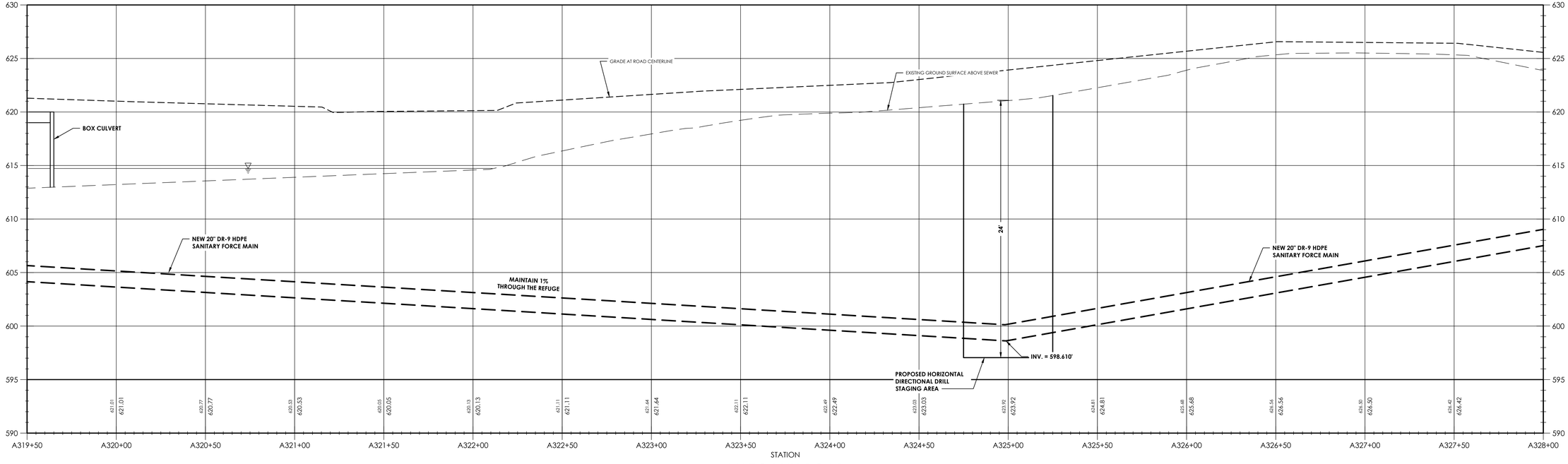


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A319+50 TO STA. A328+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

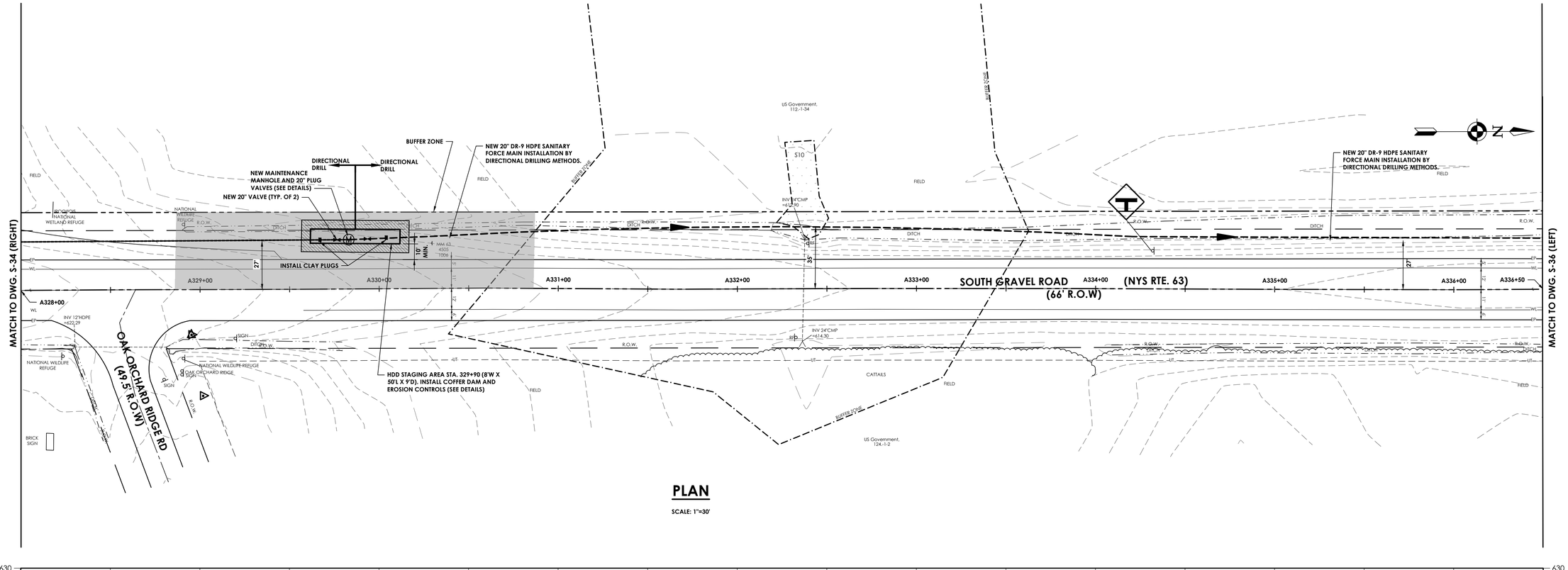
SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A319+50
TO STA. A328+00

PROJECT NUMBER
14822.00

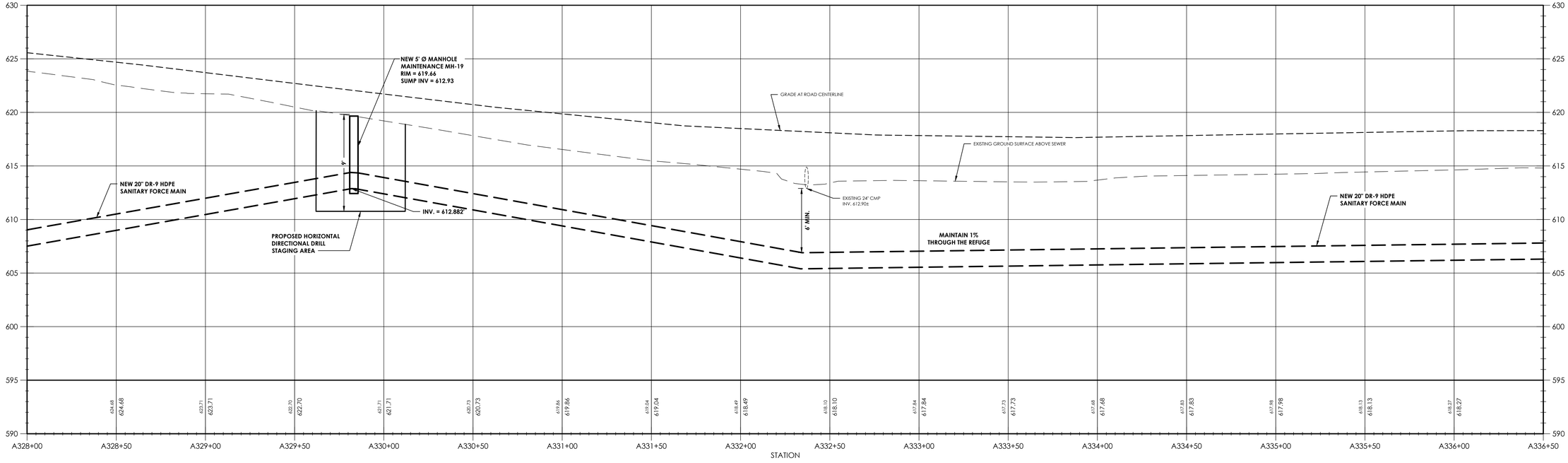
FM
S-34
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A328+00 TO STA. A336+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A328+00
TO STA. A336+50

PROJECT NUMBER
14822.00

FM
S-35
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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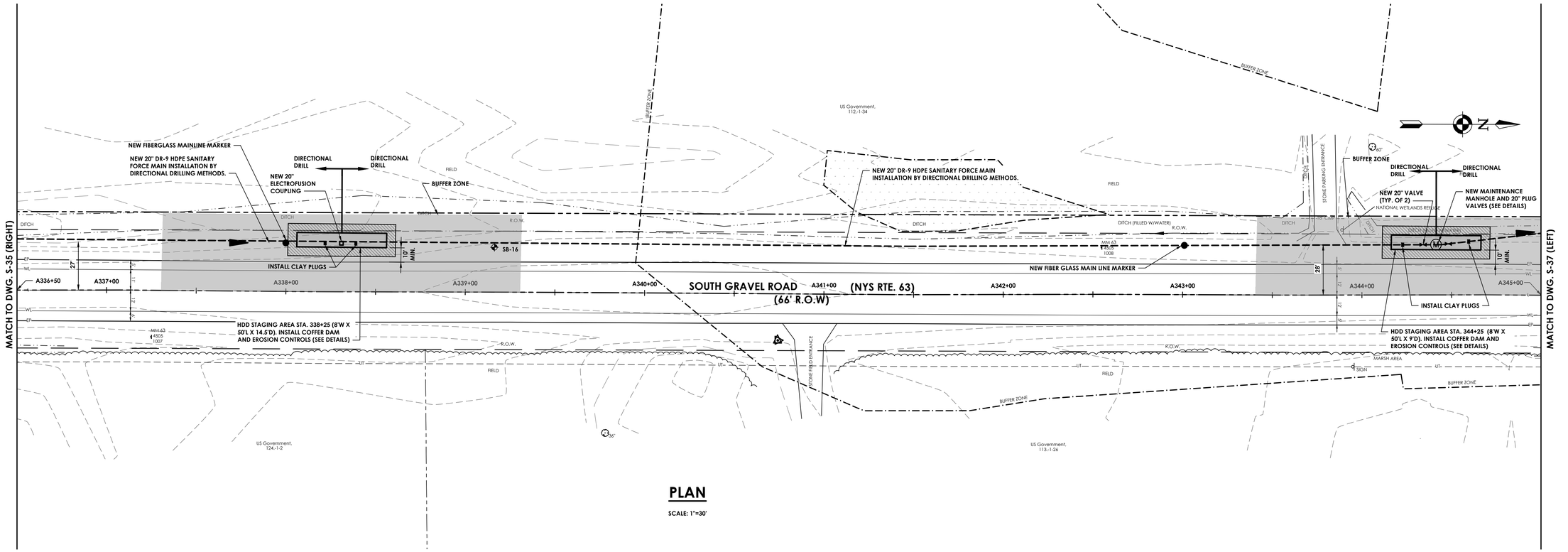
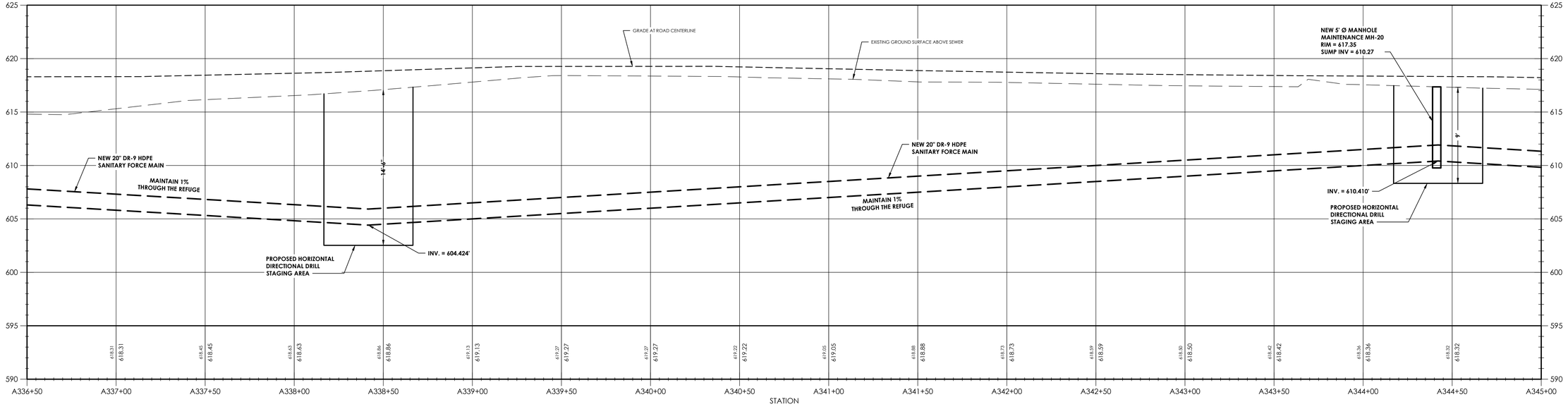


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A336+50 TO STA. A345+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

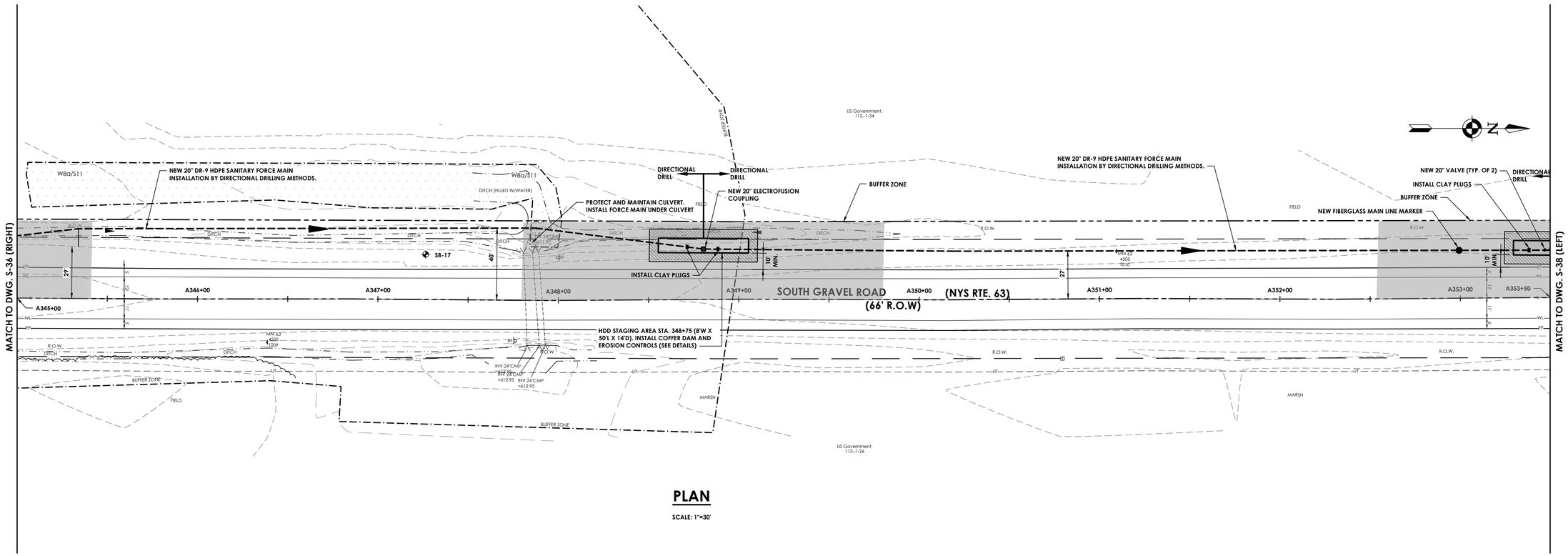
SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A336+50
TO STA. A345+00

PROJECT NUMBER
14822.00

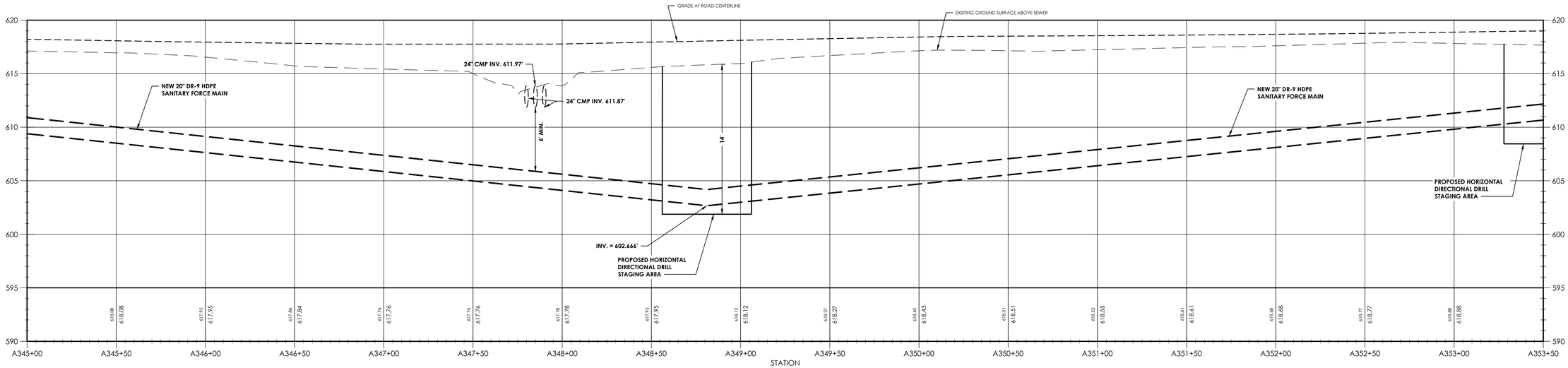
FM
S-36
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A345+00 TO STA. A353+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A345+00
TO STA. A353+50

PROJECT NUMBER
14822.00

FM
S-37
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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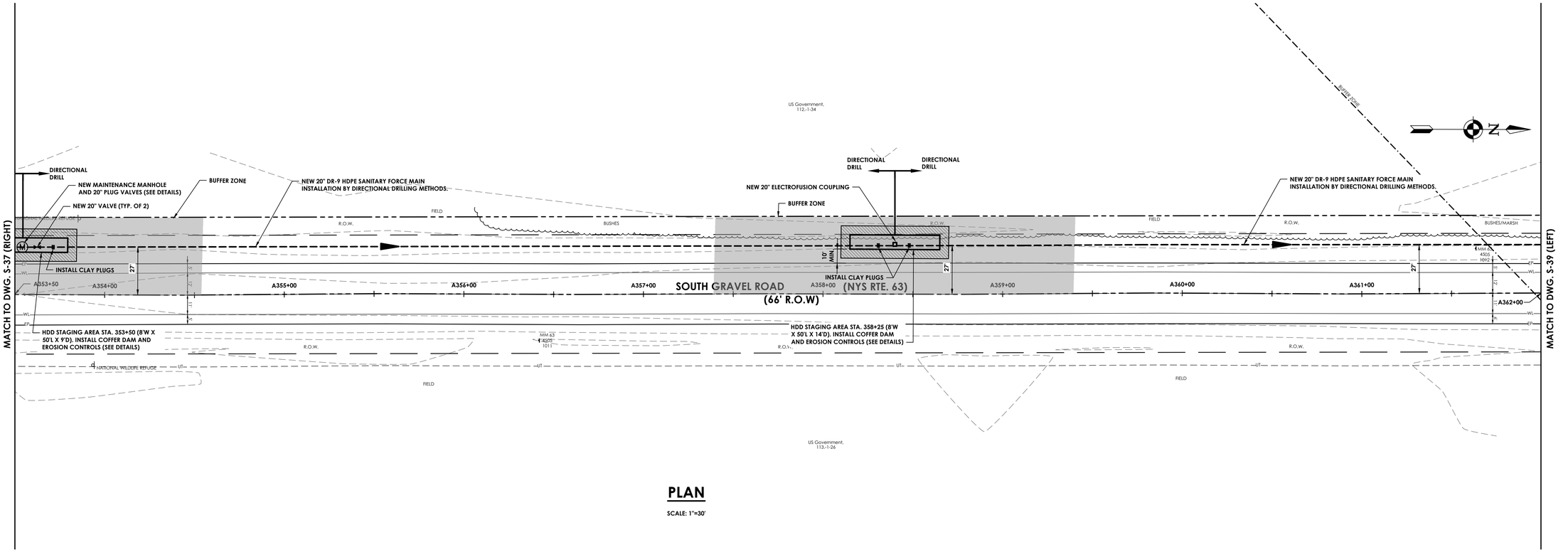
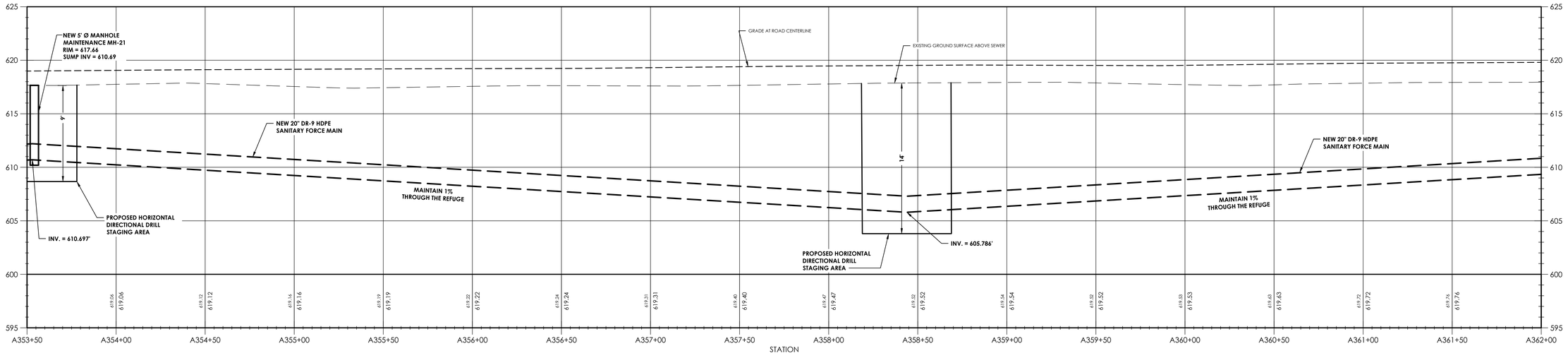


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A353+50 TO STA. A362+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. A353+50 TO STA. A362+00

PROJECT NUMBER: 14822.00

DRAWING NUMBER: FM S-38

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, NEXT TO SAID SEAL, AND IN THE ADJACENCY, ALTERED BY FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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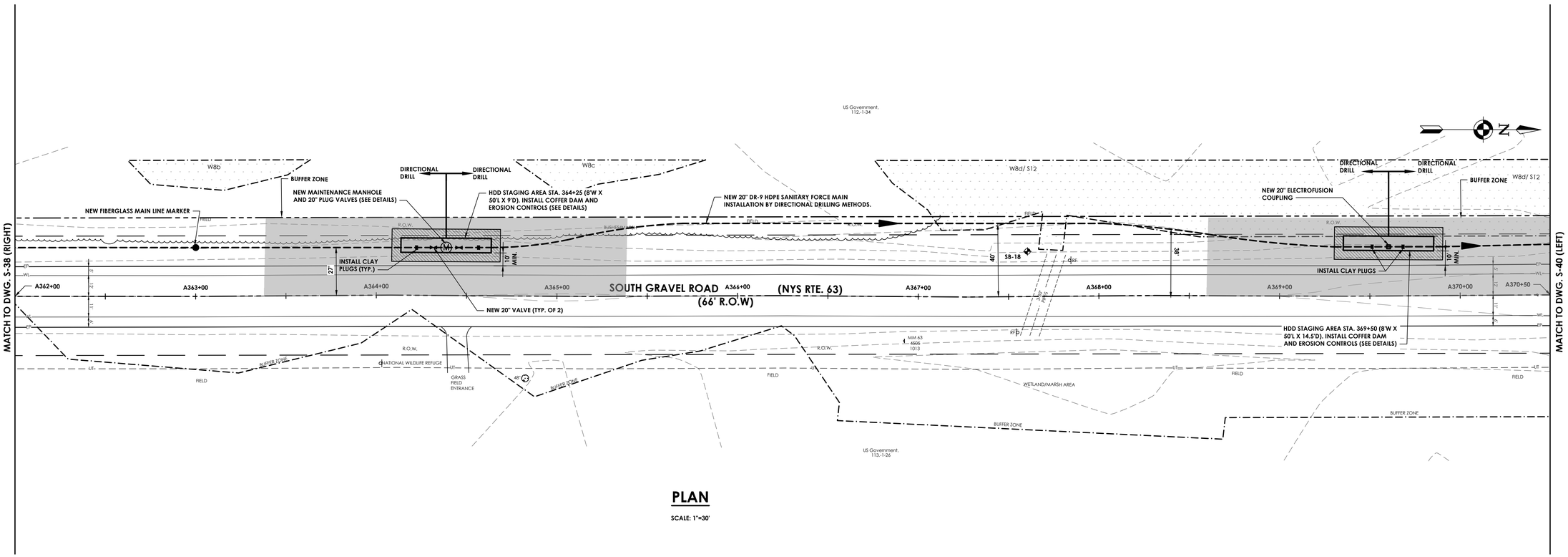
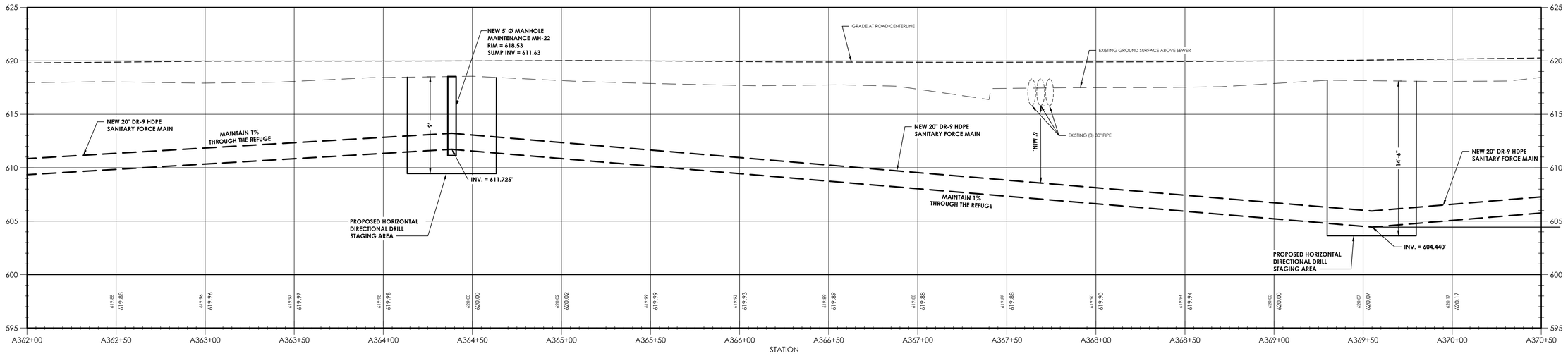


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A362+00 TO STA. A370+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A362+00
TO STA. A370+50

PROJECT NUMBER
14822.00

FM
S-39
DRAWING NUMBER

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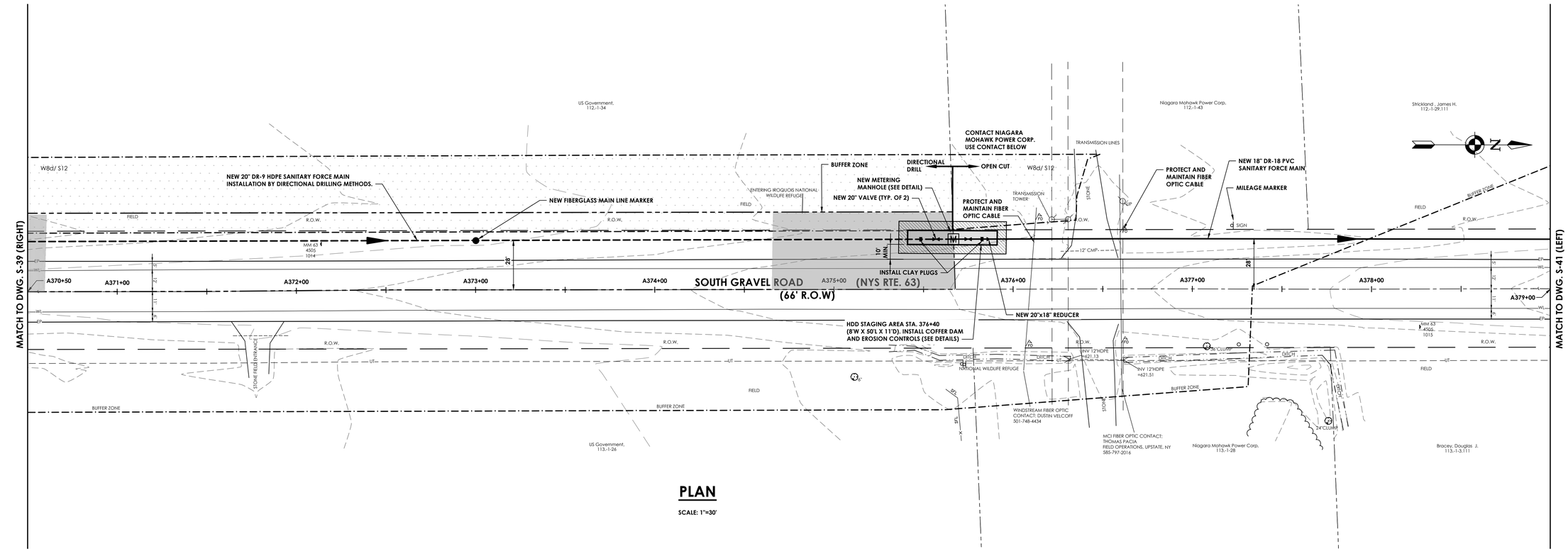
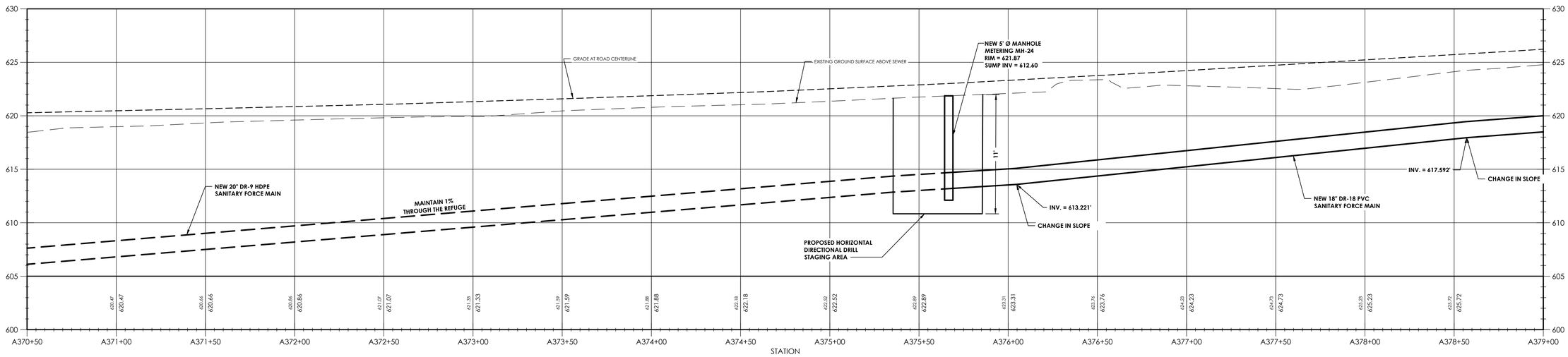


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A370+50 TO STA. A379+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION / NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A370+50
TO STA. A379+00

PROJECT NUMBER
14822.00

FM
S-40
DRAWING NUMBER

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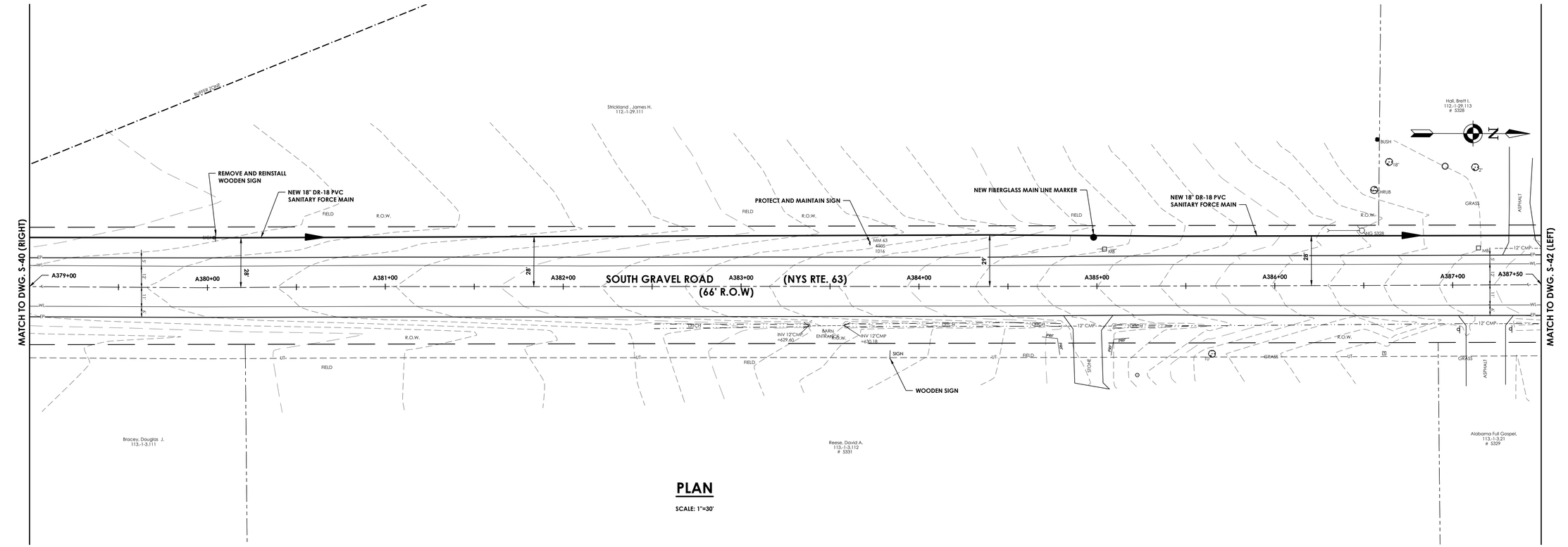
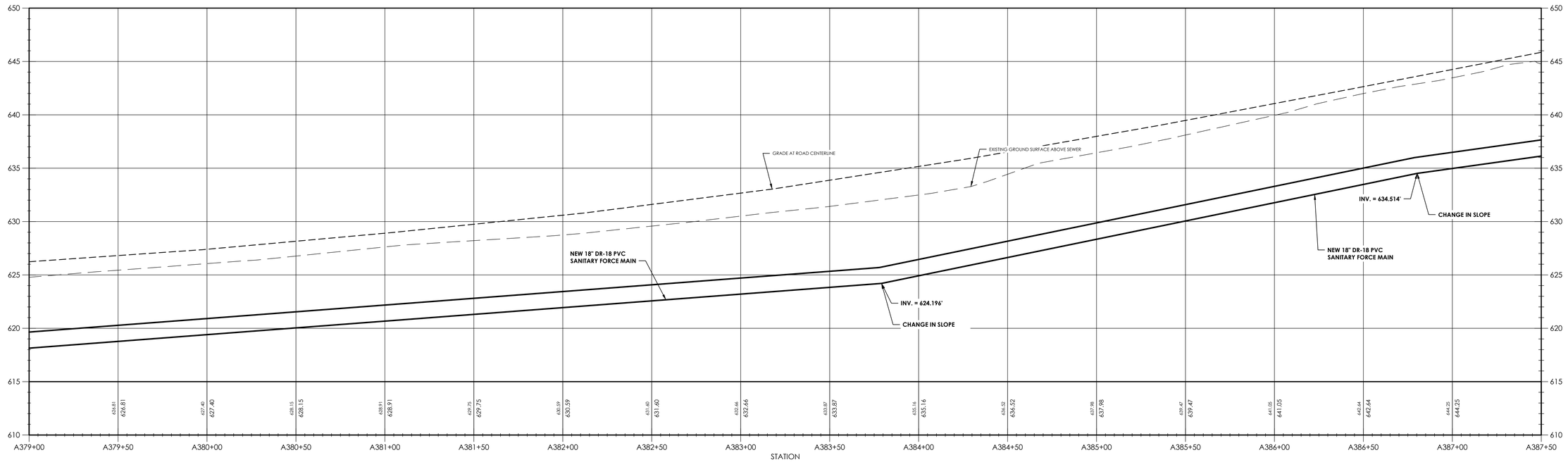
Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:25 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A379+00 TO STA. A387+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

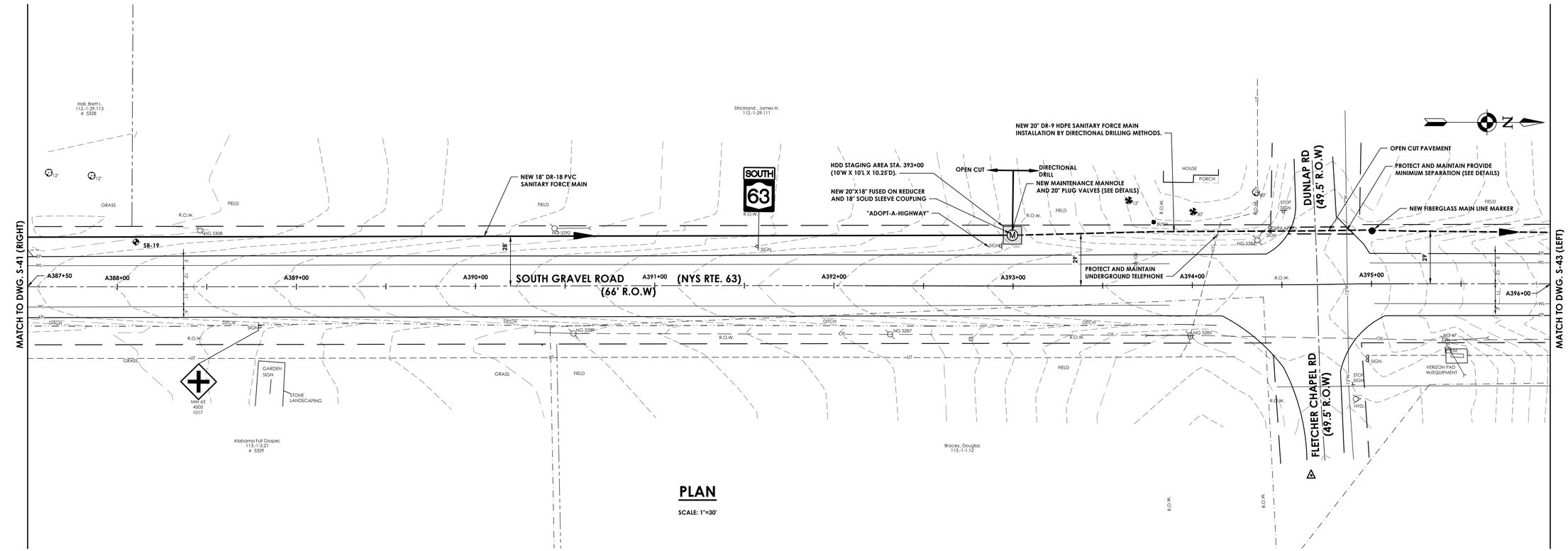
SHEET TITLE
PLAN AND PROFILE
STA. A379+00
TO STA. A387+50

PROJECT NUMBER
14822.00

FM
S-41
DRAWING NUMBER

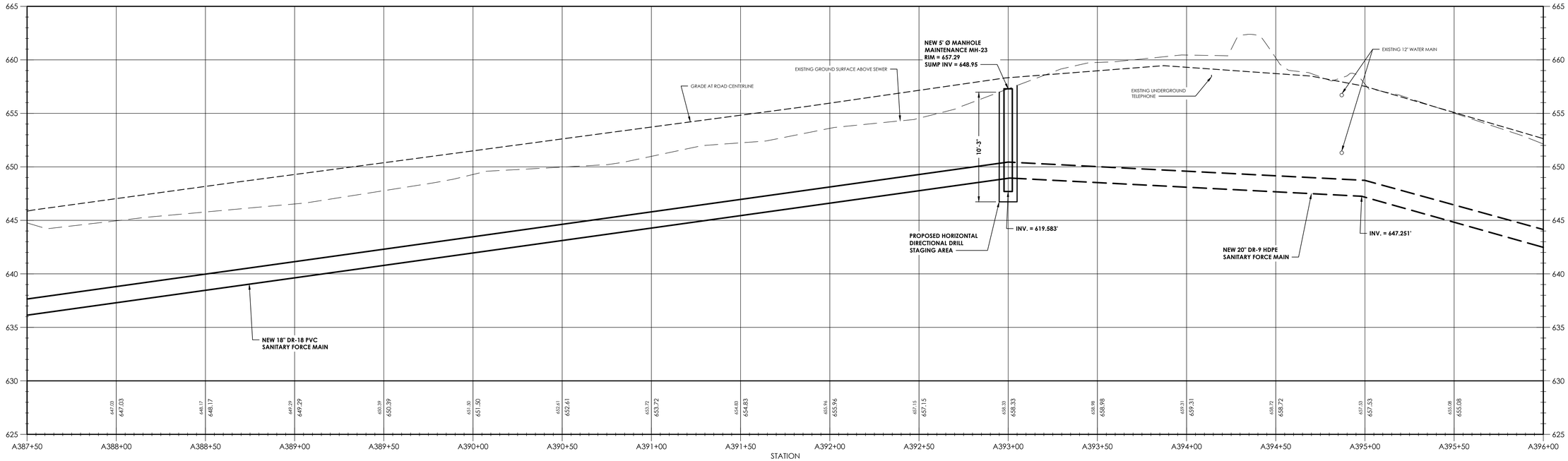
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-23 TO S-42.dwg
Date last accessed: 10/28/2020 10:03 AM Date last plotted: 10/28/2020 10:25 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A387+50 TO STA. A396+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

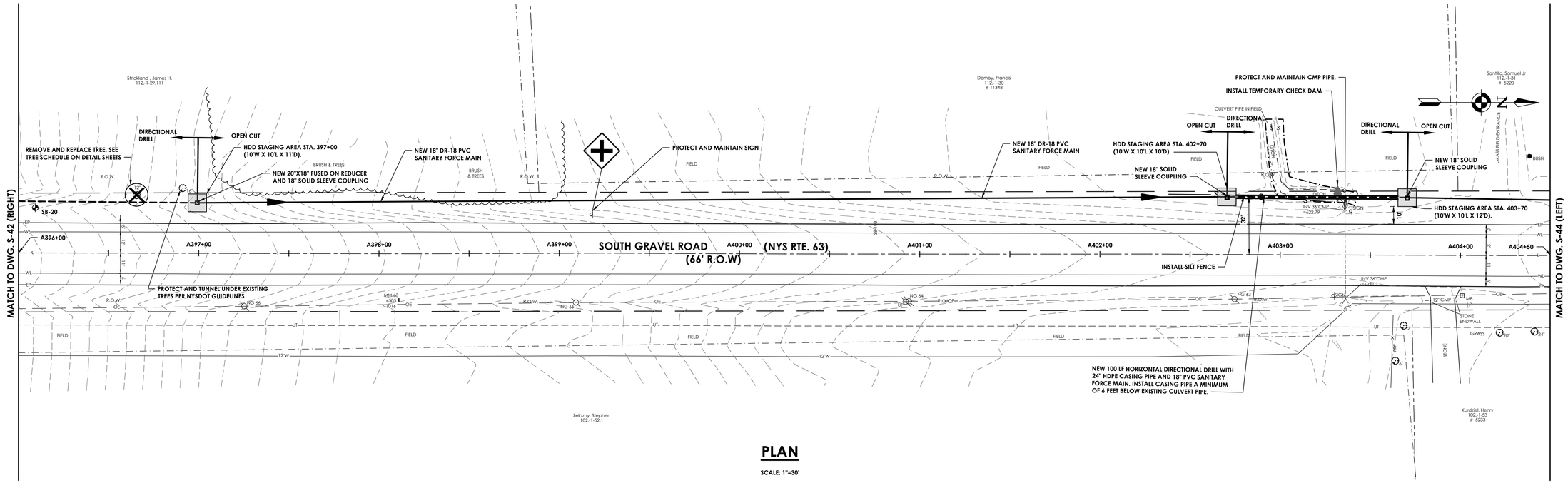
SHEET TITLE
PLAN AND PROFILE
STA. A387+50
TO STA. A396+00

PROJECT NUMBER
14822.00

FM
S-42
DRAWING NUMBER

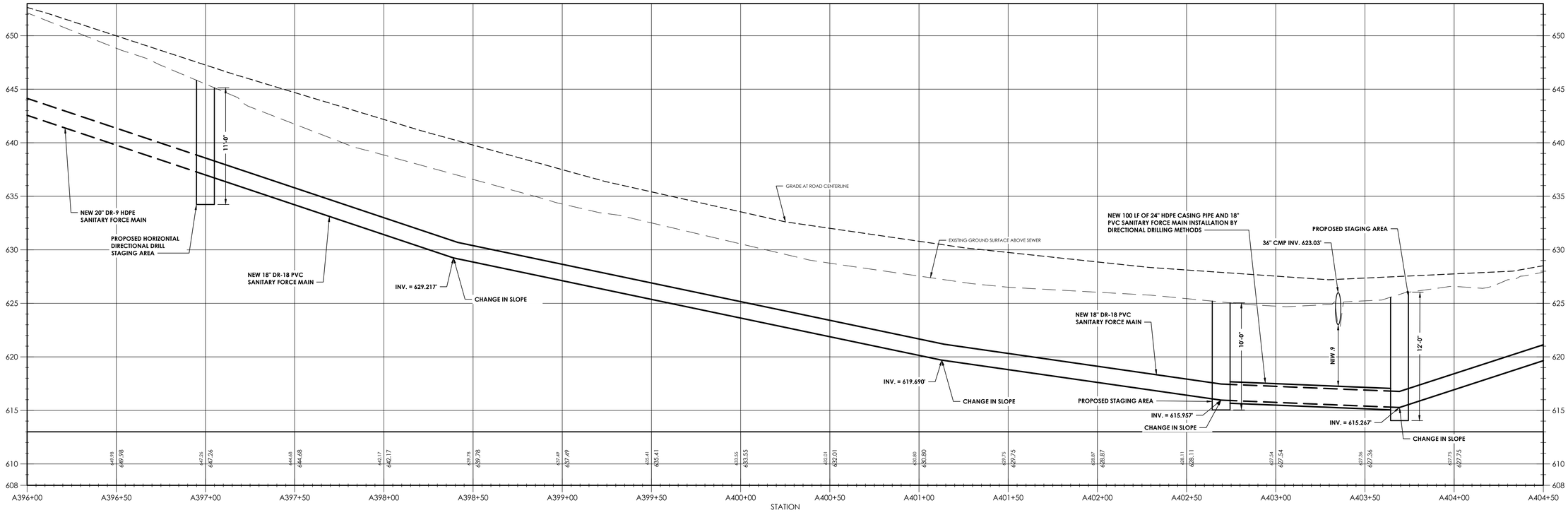
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-43 TO S-63.dwg Date last accessed: 10/28/2020 10:04 AM Date last plotted: 10/28/2020 10:25 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A396+00 TO STA. A404+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

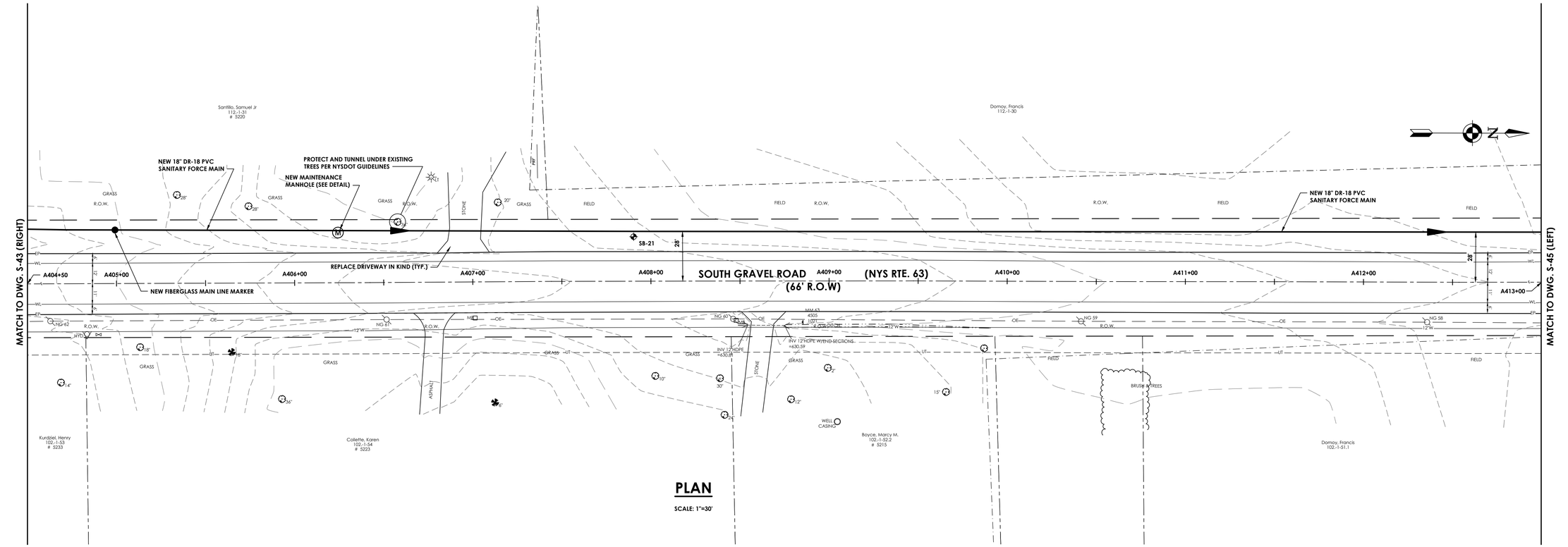
SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A226+00
TO STA. A234+50

PROJECT NUMBER
14822.00

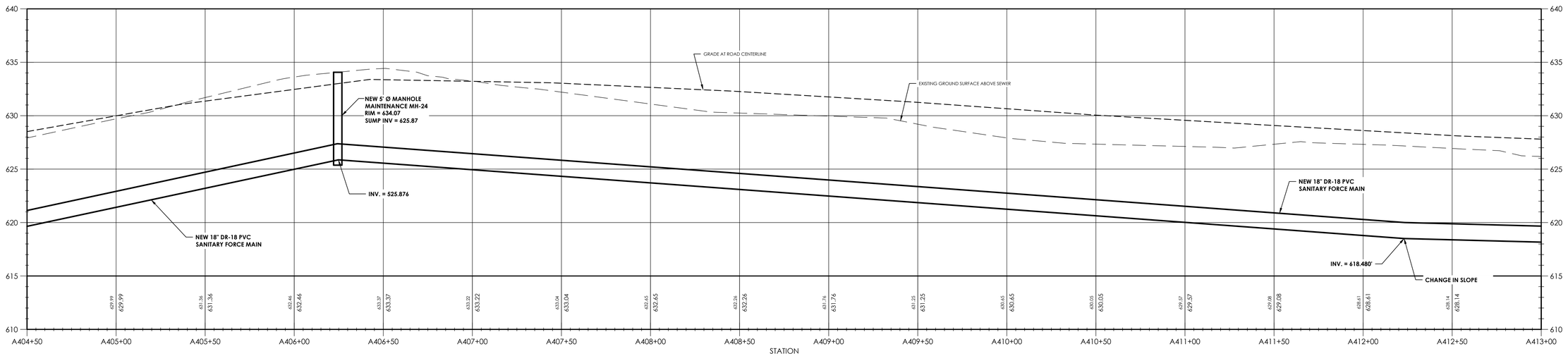
FM
S-43
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, NEXT TO SAID SEAL AND INITIALS, THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A404+50 TO STA. A413+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

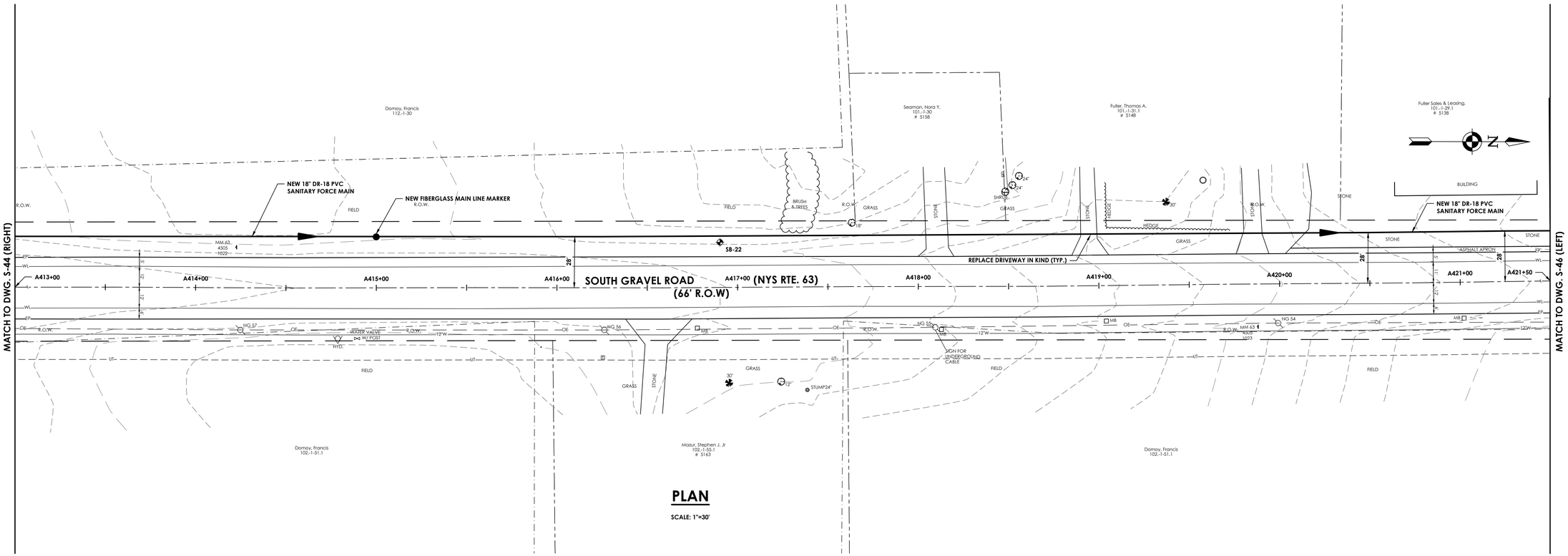
SHEET TITLE
PLAN AND PROFILE
STA. A404+50
TO STA. A413+00

PROJECT NUMBER
14822.00

FM
S-44
DRAWING NUMBER

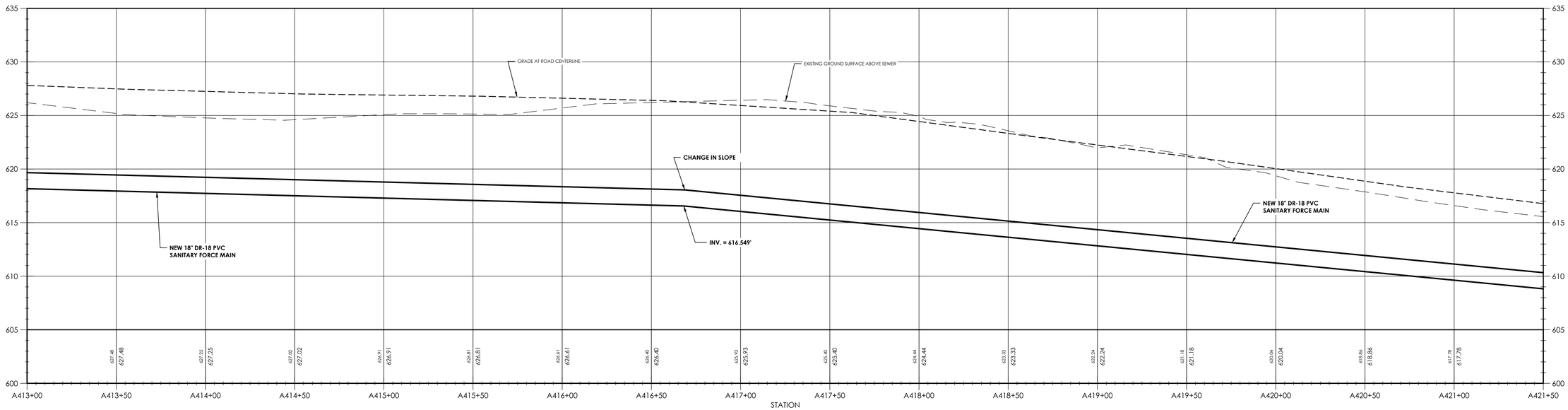
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:26 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A413+00 TO STA. A421+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A413+00
TO STA. A421+50

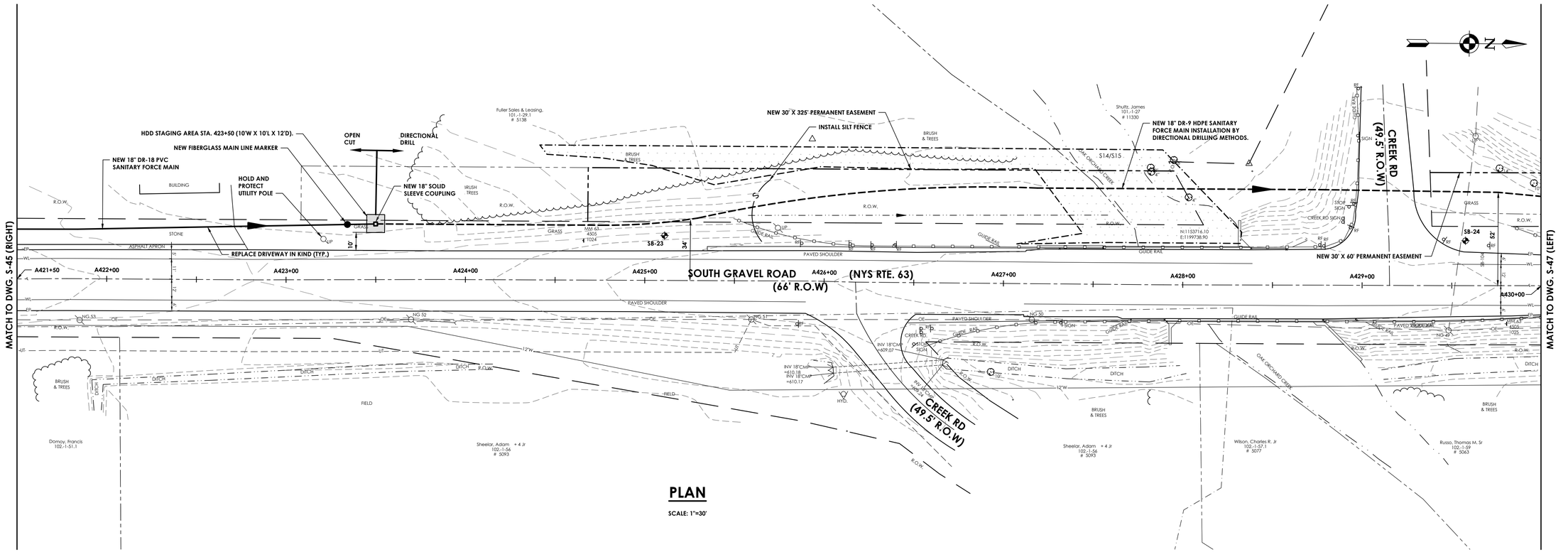
PROJECT NUMBER
14822.00

FM
S-45
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

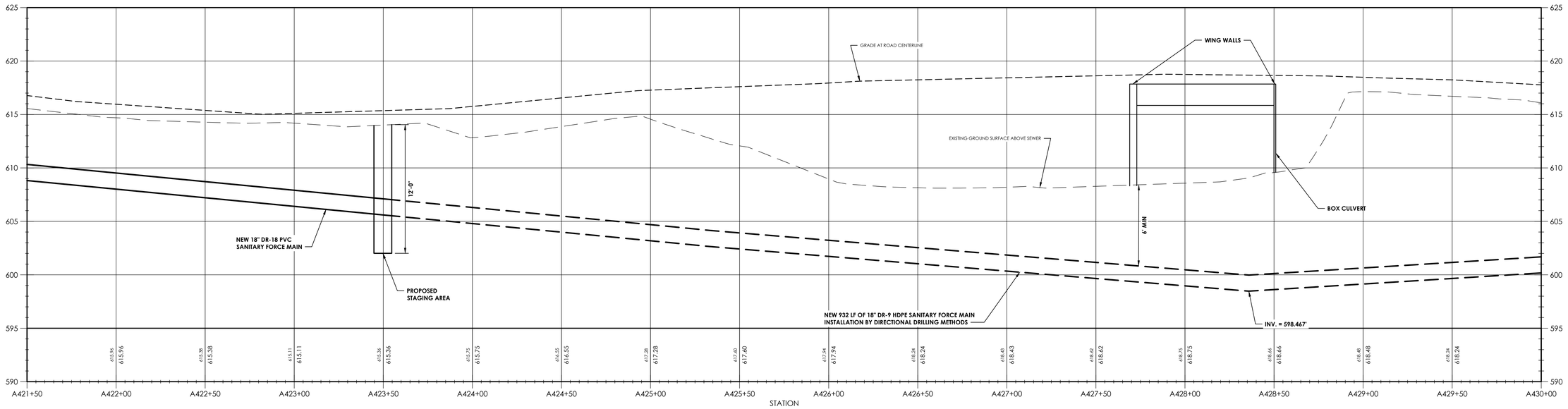
Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:26 AM
Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM Date last plotted: 10/28/2020 10:26 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A421+50 TO STA. A430+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

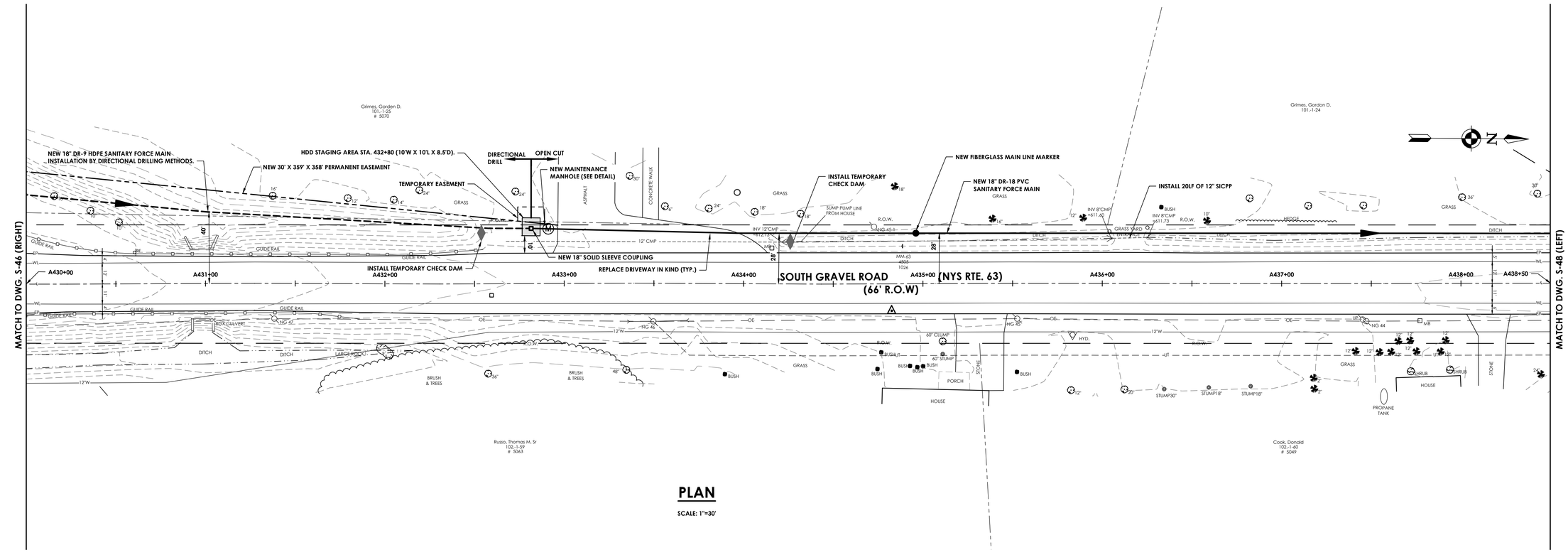
SHEET TITLE
PLAN AND PROFILE
STA. A421+50
TO STA. A430+00

PROJECT NUMBER
14822.00

FM
S-46
DRAWING NUMBER

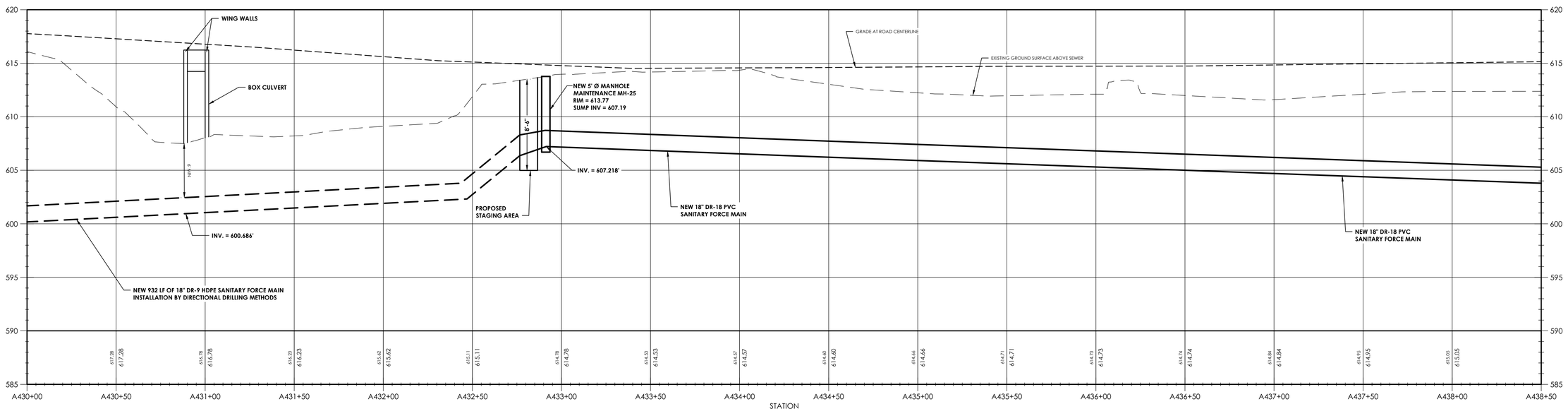
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:27 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A430+00 TO STA. A438+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

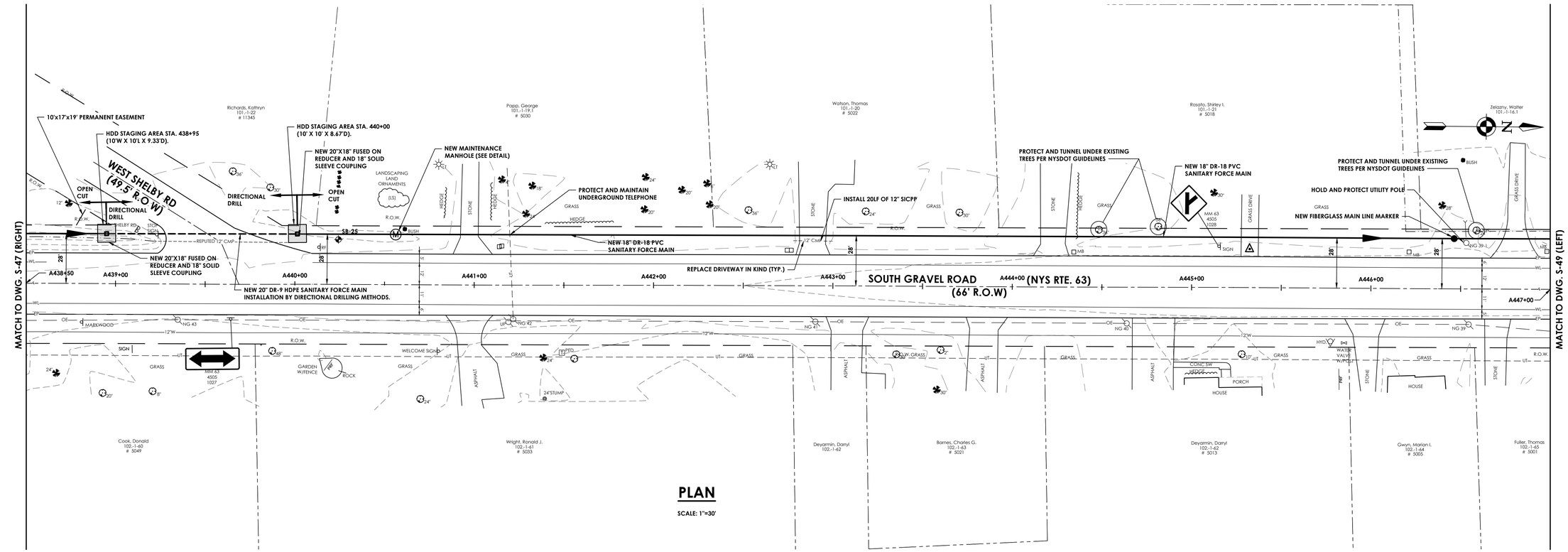
SHEET TITLE
PLAN AND PROFILE
STA. A430+00
TO STA. A438+50

PROJECT NUMBER
14822.00

FM
S-47
DRAWING NUMBER

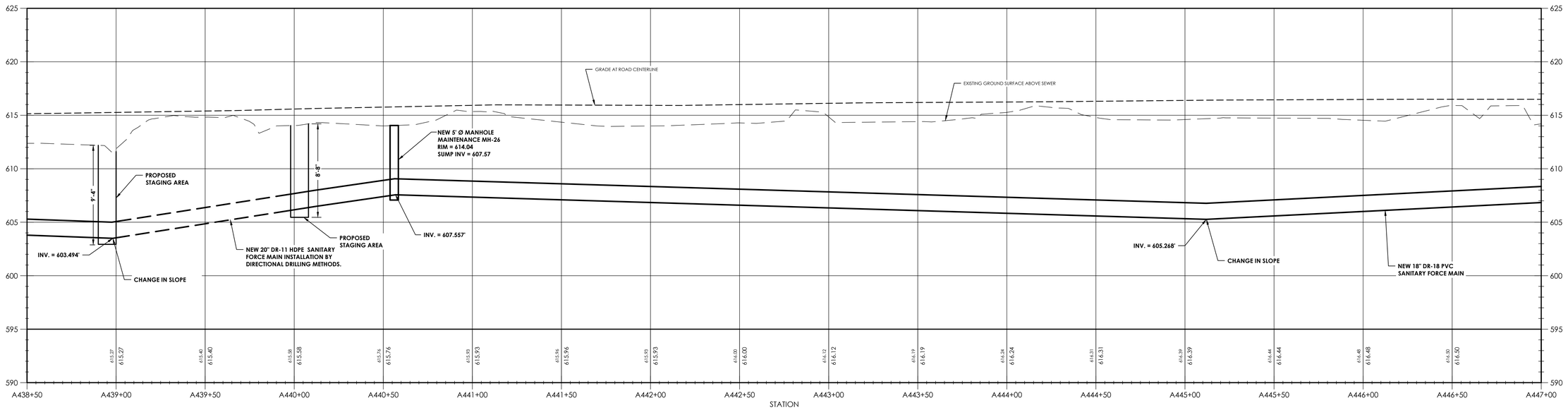
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION 'ALTERED BY' FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:27 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A438+50 TO STA. A447+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION / NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

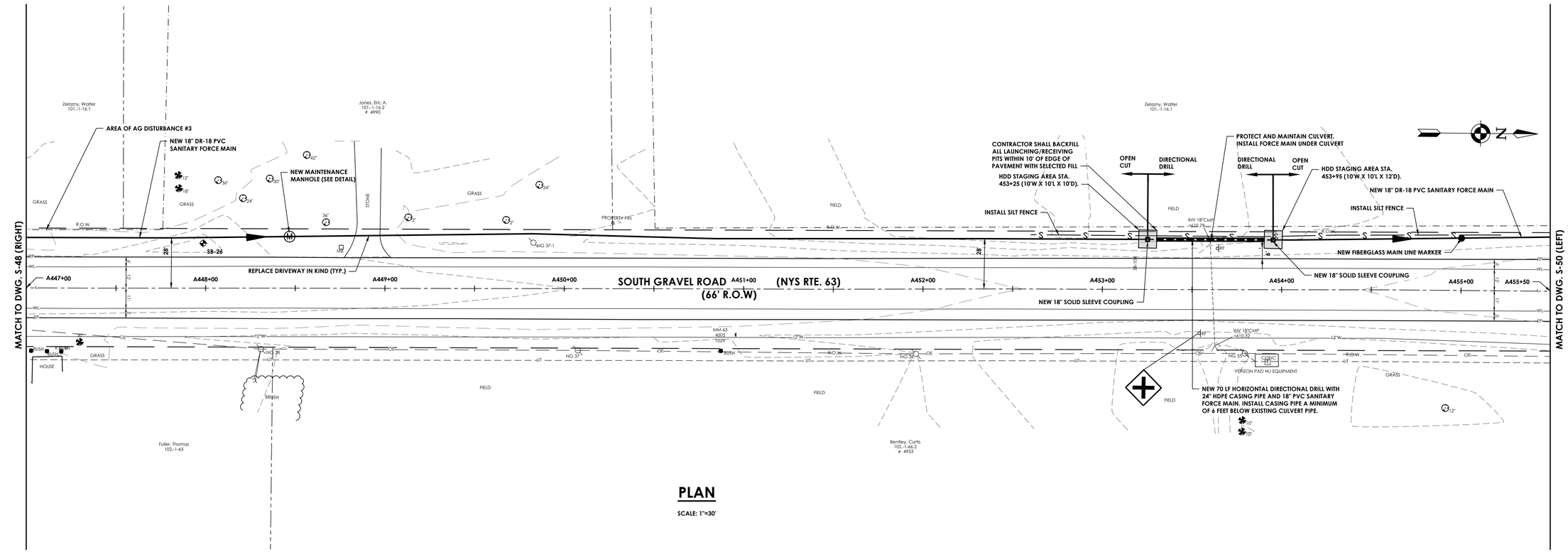
SHEET TITLE: PLAN AND PROFILE STA. A438+50 TO STA. A447+00

PROJECT NUMBER: 14822.00

FM
S-48
DRAWING NUMBER

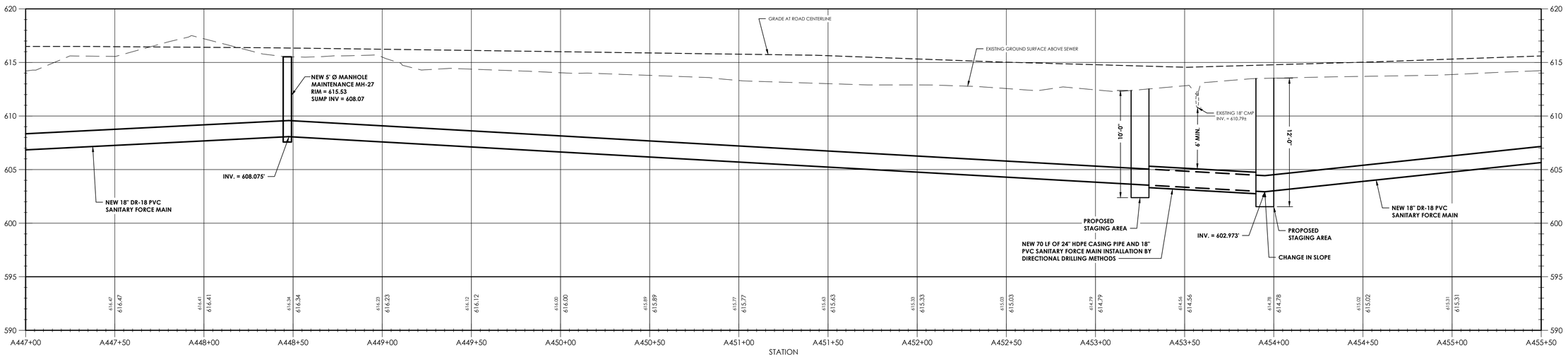
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg Date last accessed: 10/28/2020 10:04 AM Date last plotted: 10/28/2020 10:27 AM Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A447+00 TO STA. A455+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

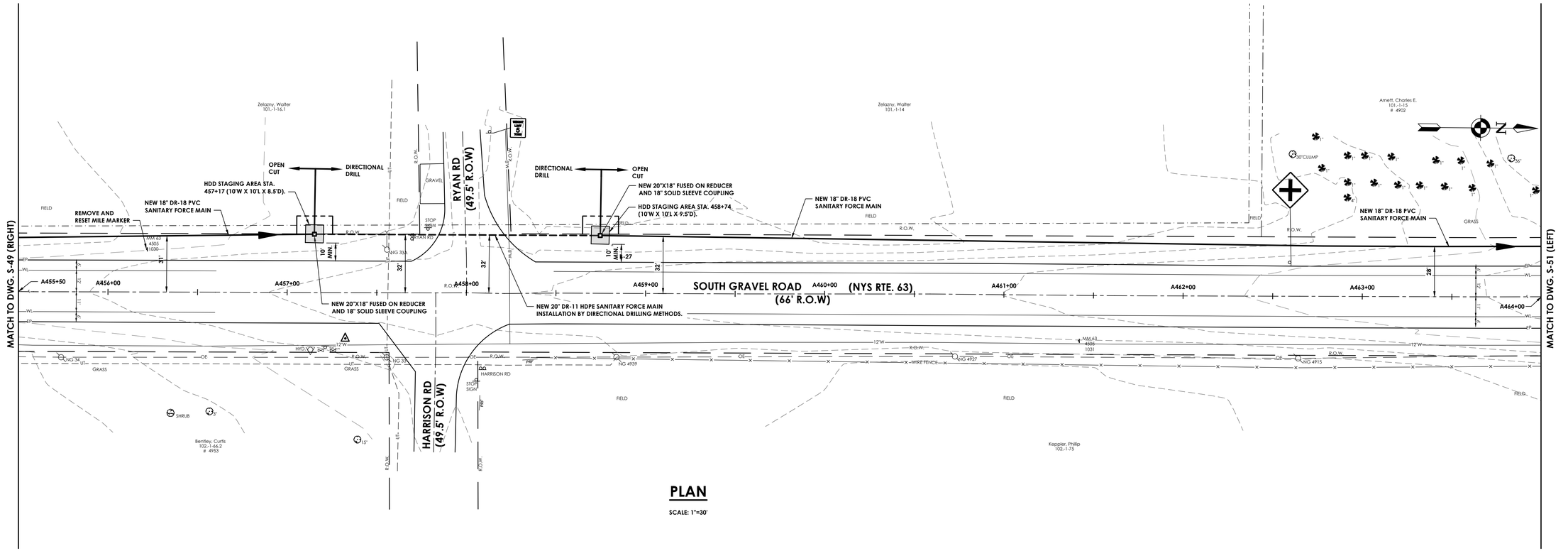
SCALE: AS NOTED

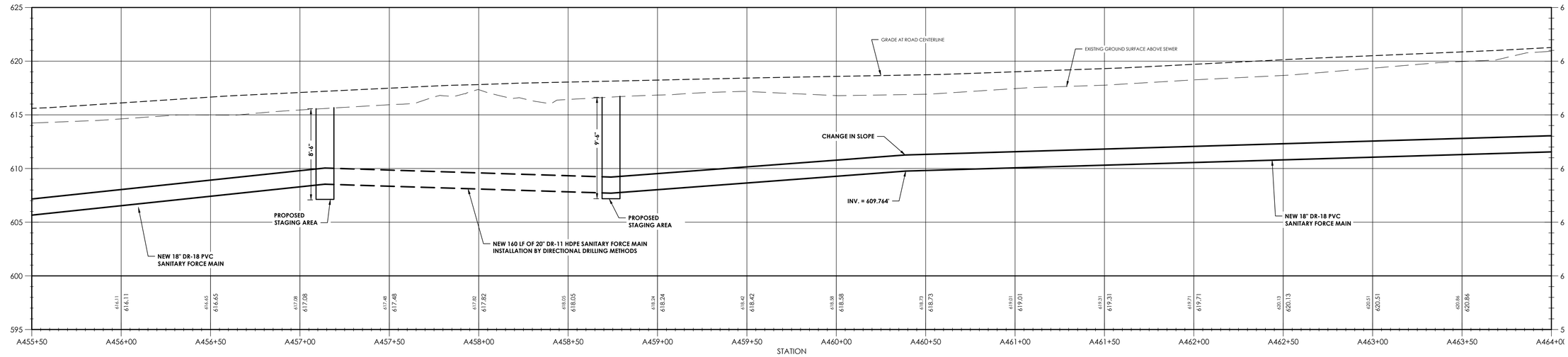
SHEET TITLE
PLAN AND PROFILE
STA. A447+00
TO STA. A455+50

PROJECT NUMBER
14822.00

FM
S-49
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.





PLAN

SCALE: 1"=30'

ALLEGANY ROAD
STA. A455+50 TO STA. A464+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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FAX (585) 454-7618

REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	ARK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION; NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. A455+50 TO STA. A464+00

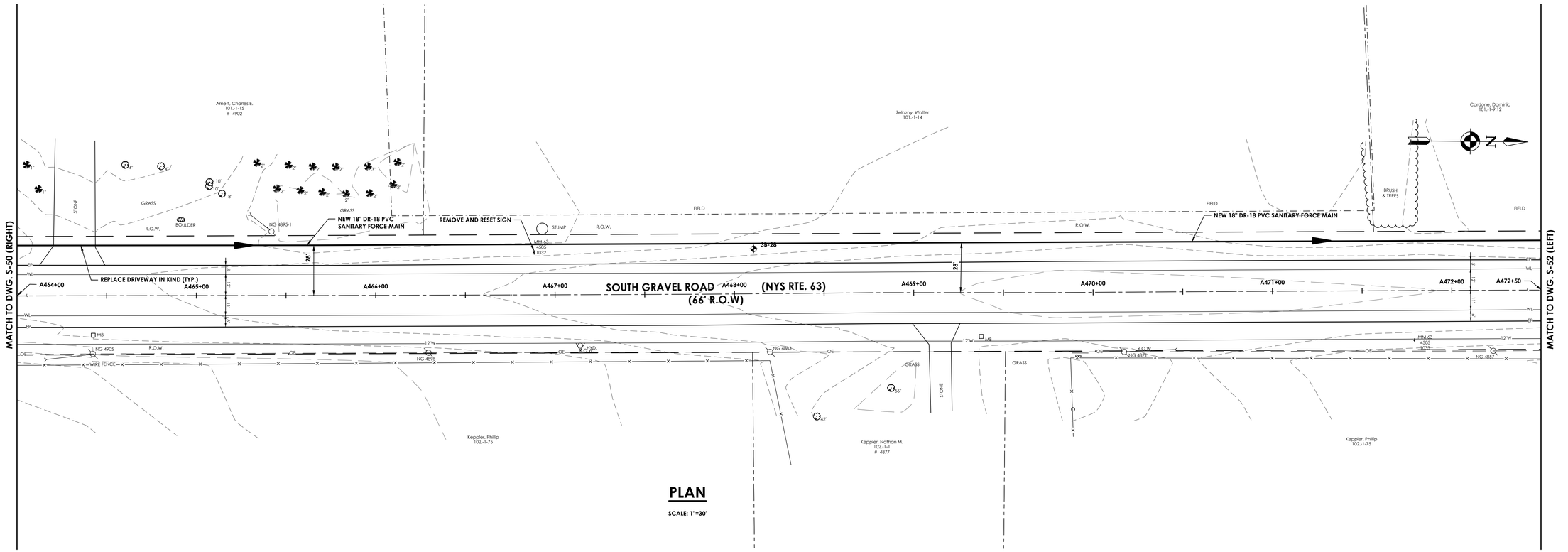
PROJECT NUMBER: 14822.00

DRAWING NUMBER: FM S-50

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

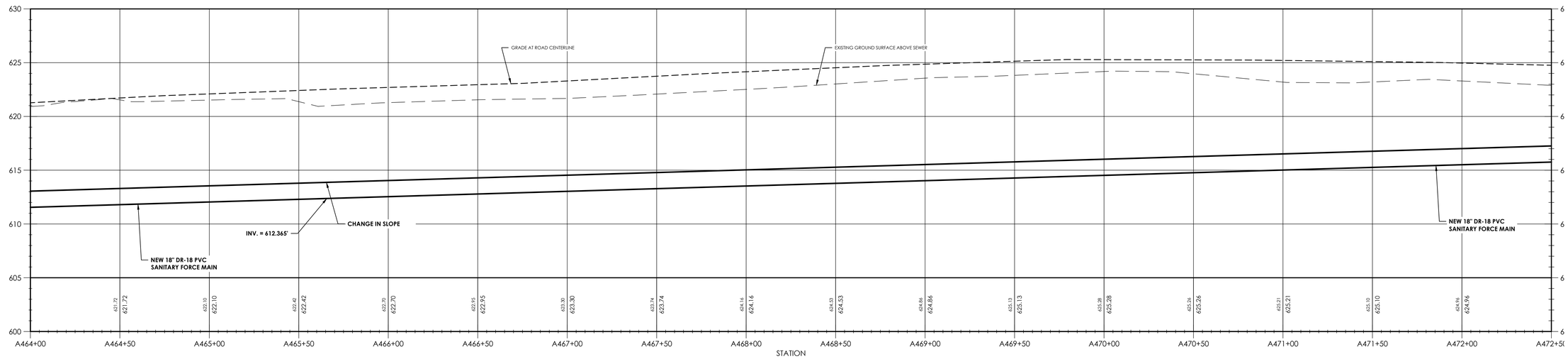
Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Site\PLOT SET S-43 TO S-63.dwg Date last accessed: 10/28/2020 10:04 AM Date last plotted: 10/28/2020 10:27 AM Plotted By: Nicole Cullen

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Site_PLOT SET S-43 TO S-63.dwg
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:28 AM
Plotted By: Nicole Cullen



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A464+00 TO STA. A472+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

CPLteam.com
ARCHITECTURE = ENGINEERING = PLANNING
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REVISIONS			
NO.	DATE	BY	CHKED
0	4/13/20	ZLA	GRK
1	10/21/20	ZLA	ARK

DESCRIPTION: AGENCY SUBMISSION; NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE: PLAN AND PROFILE STA. A464+00 TO STA. A472+50

PROJECT NUMBER: 14822.00

FM
S-51
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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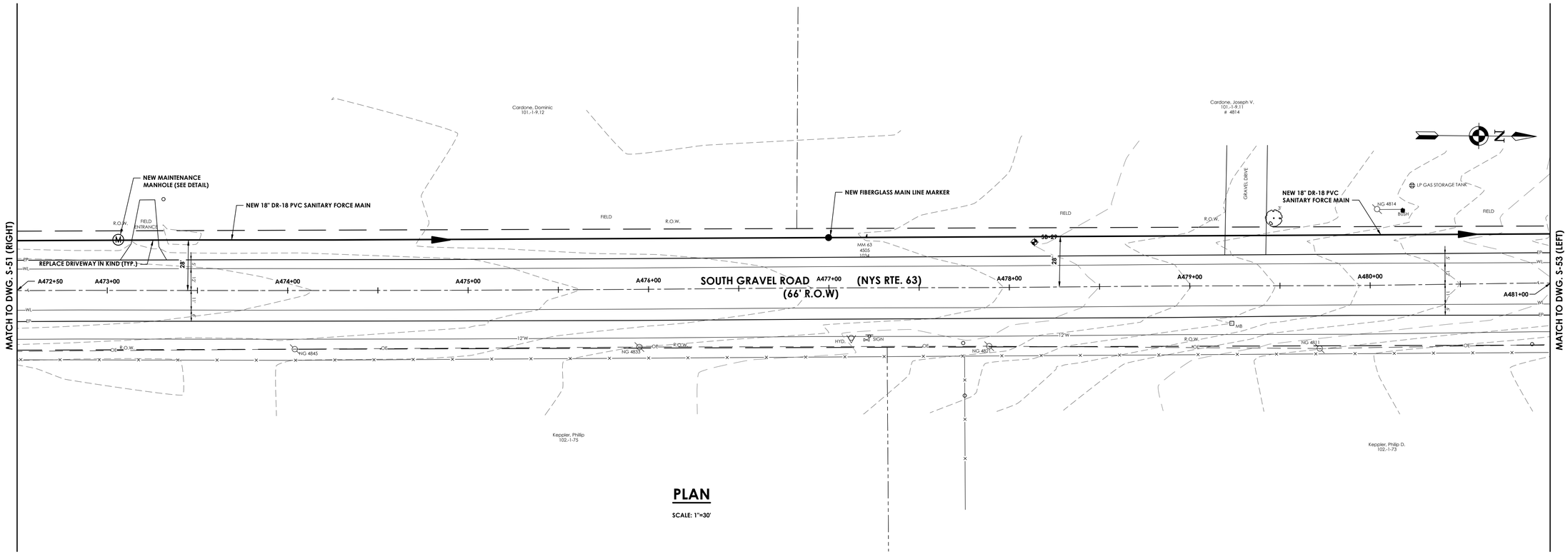
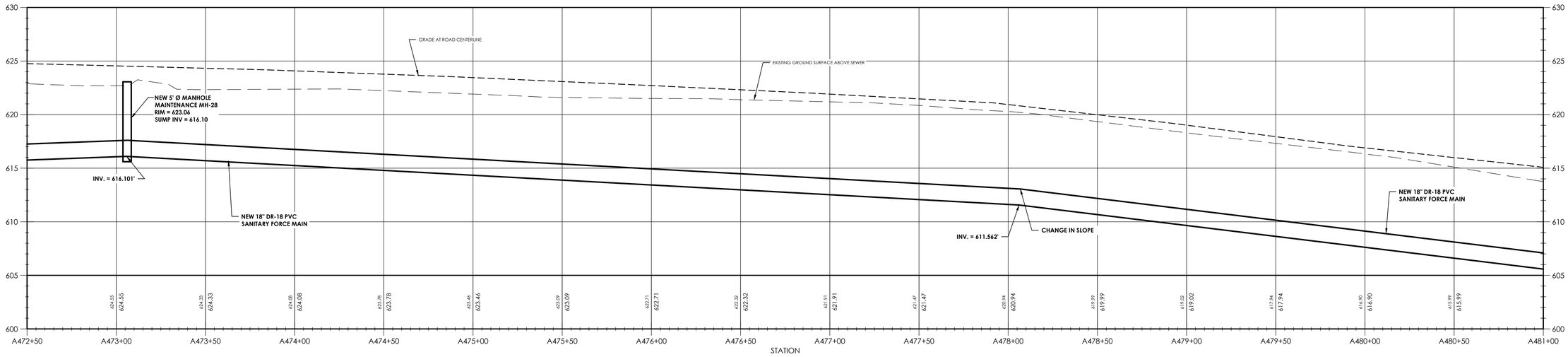


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A472+50 TO STA. A481+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A472+50
TO STA. A481+00

PROJECT NUMBER
14822.00

FM
S-52
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM, NEXT TO THE SEAL, AND IN THE ADDITION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION, AND THE DATE OF SUCH ALTERATION.

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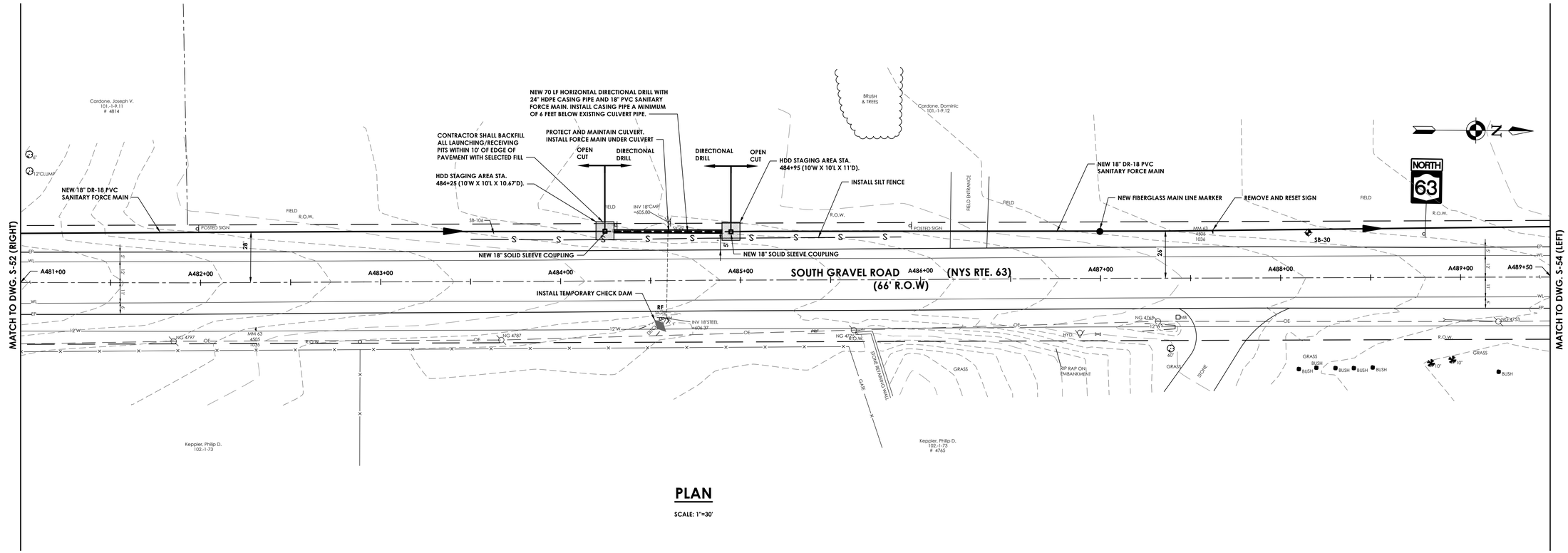
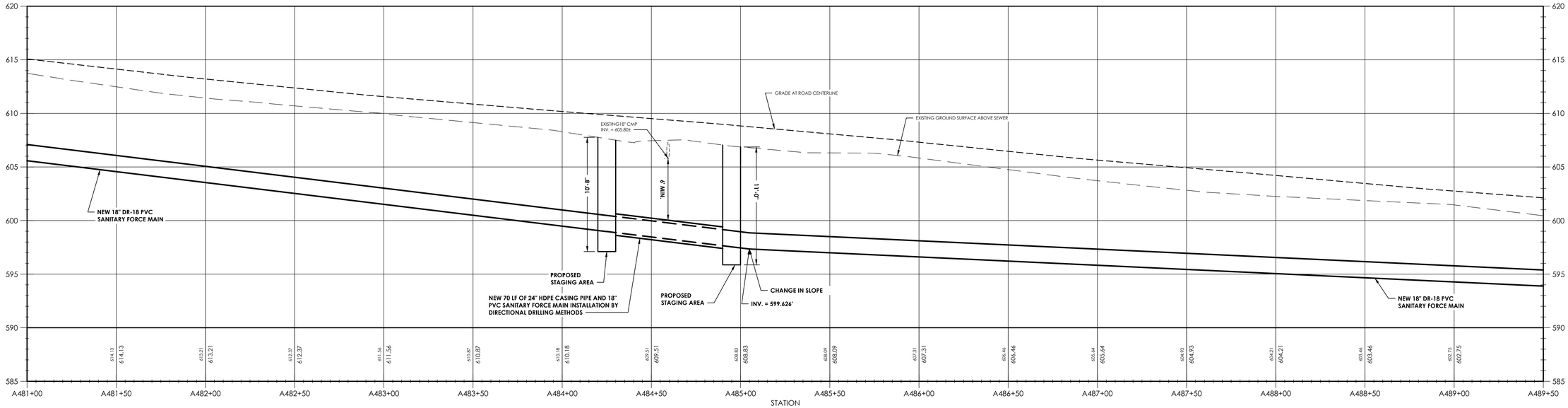


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A481+00 TO STA. A489+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A481+00
TO STA. A489+50

PROJECT NUMBER
14822.00

FM
S-53
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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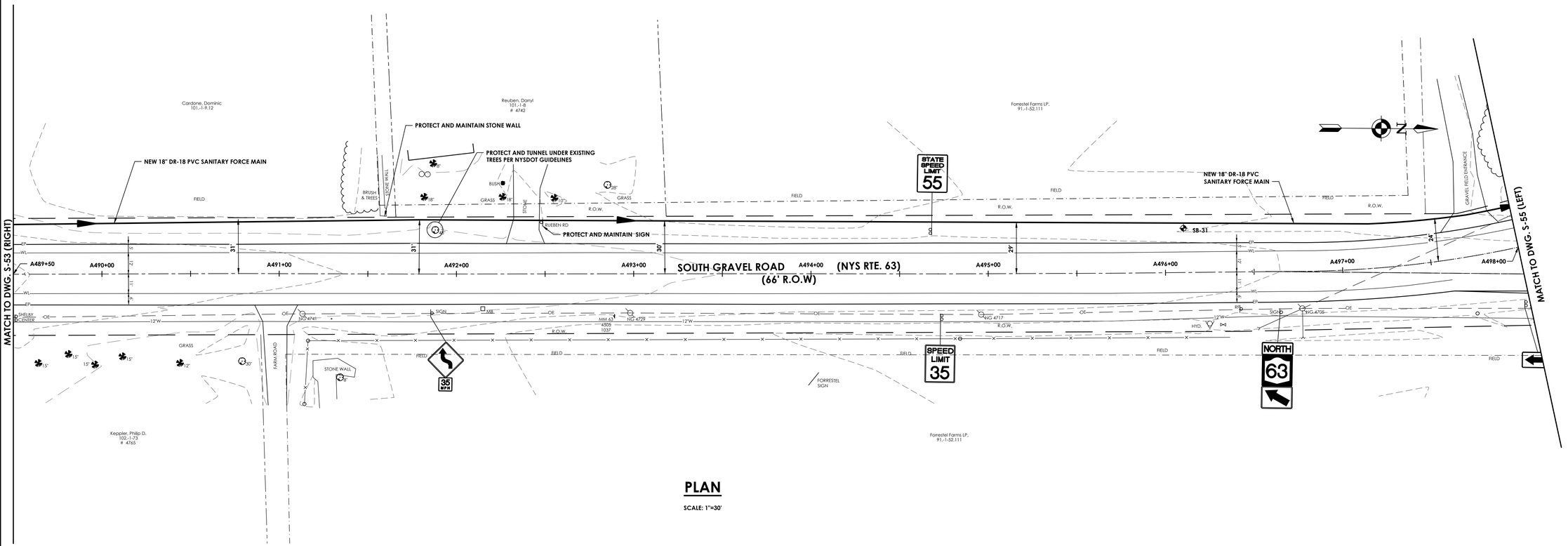
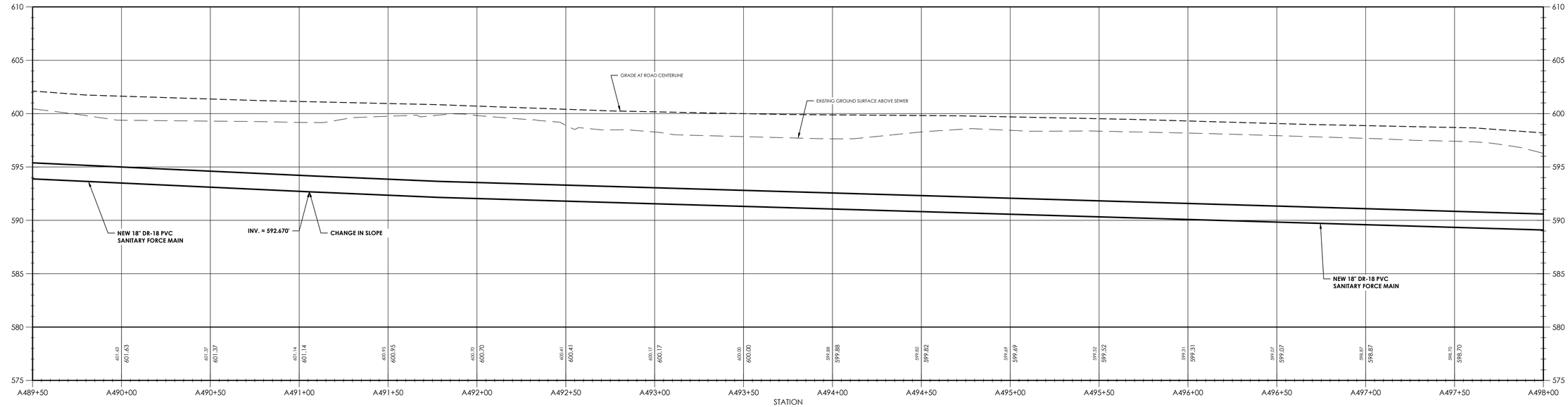


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A489+50 TO STA. A498+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A489+50
TO STA. A498+00

PROJECT NUMBER
14822.00

FM
S-54
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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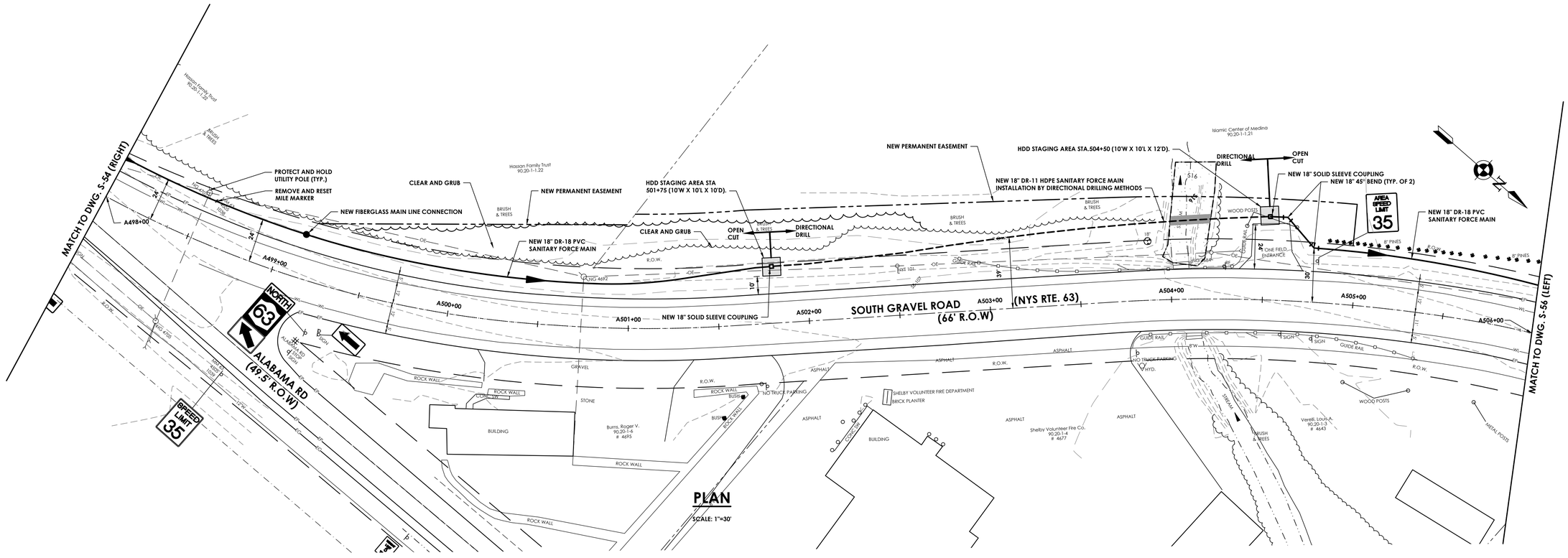
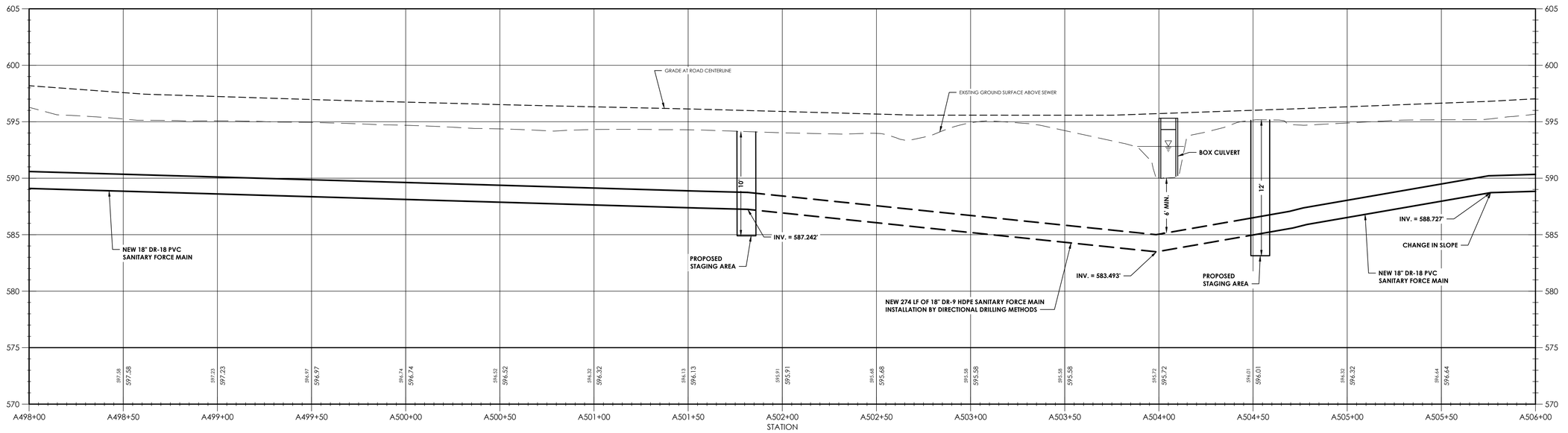
Plotted By: Nicole Cullen



PLAN
SCALE: 1"=30'



ALLEGANY ROAD
STA. A498+00 TO STA. A506+00
SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

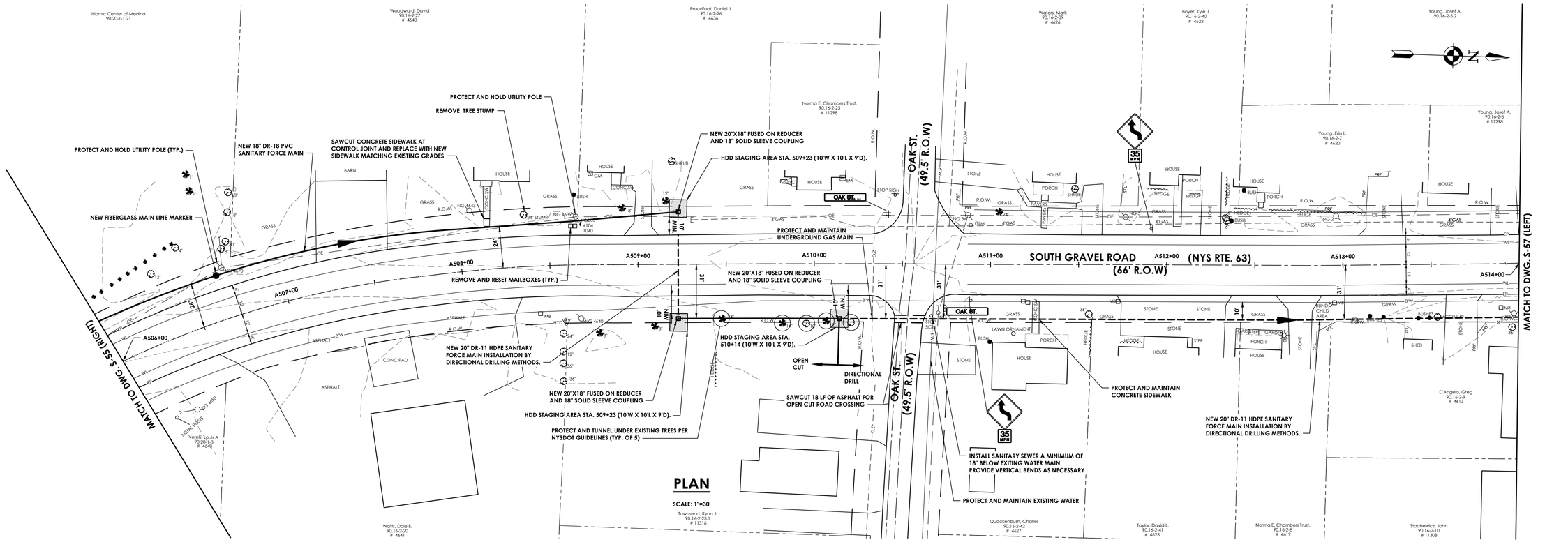
SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A498+00
TO STA. A506+00

PROJECT NUMBER
14822.00

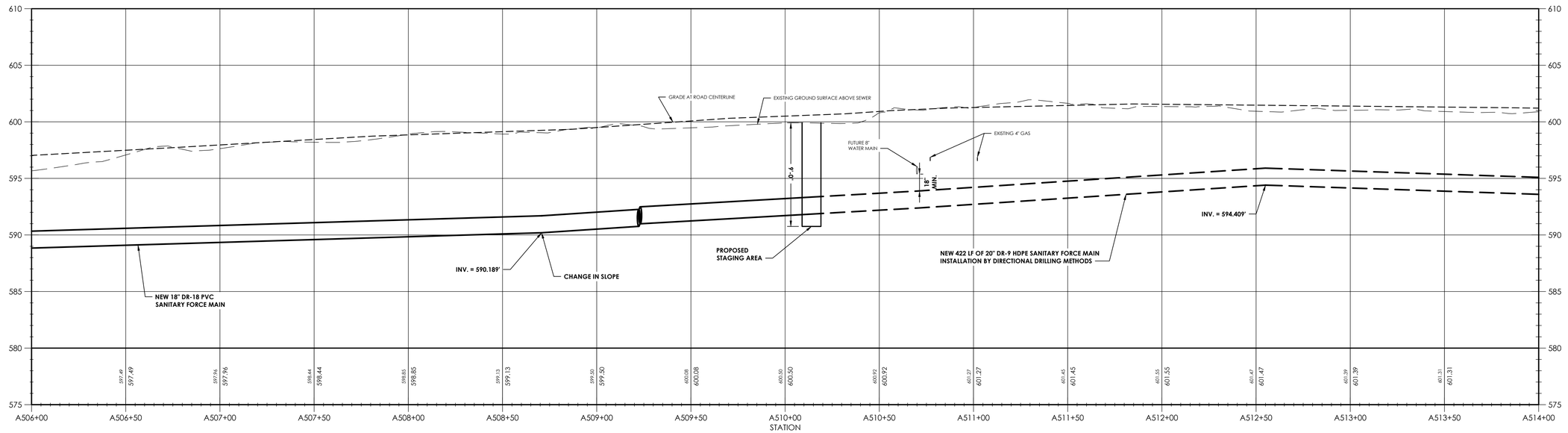
FM
S-55
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A506+00 TO STA. A514+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A506+00
TO STA. A514+00

PROJECT NUMBER
14822.00

FM
S-56
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM ON THIS PLAN IN ANY MANNER. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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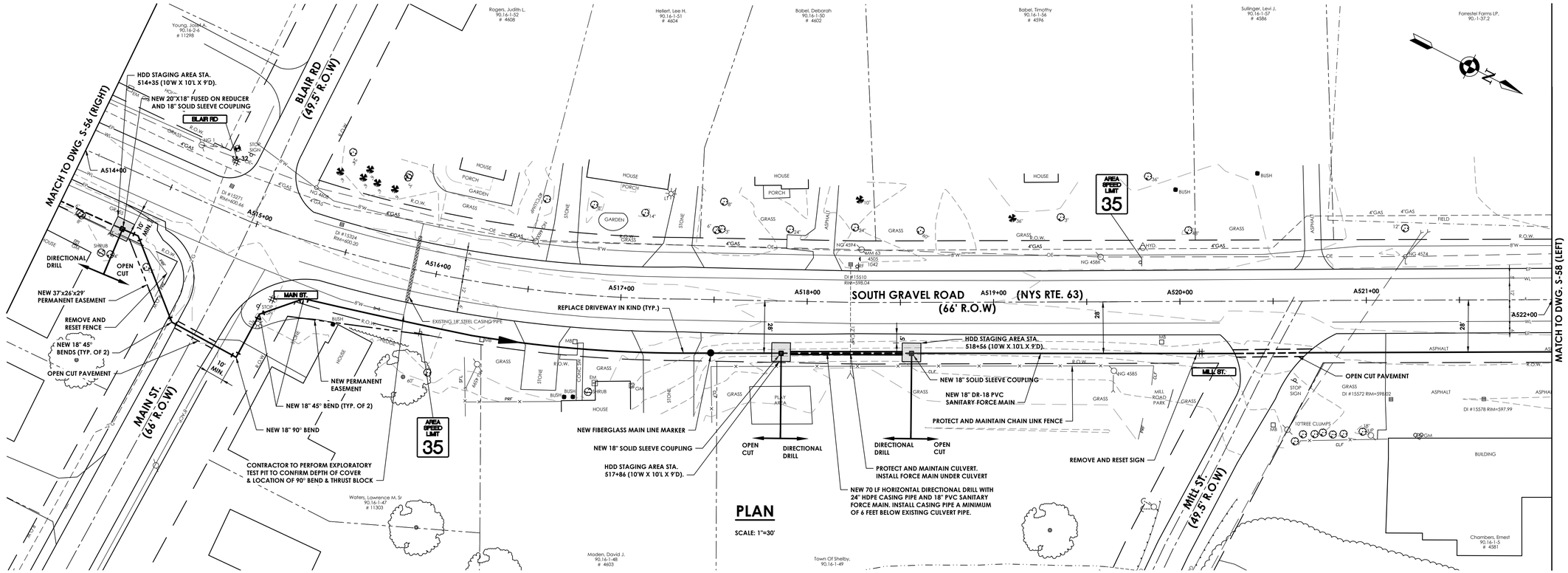
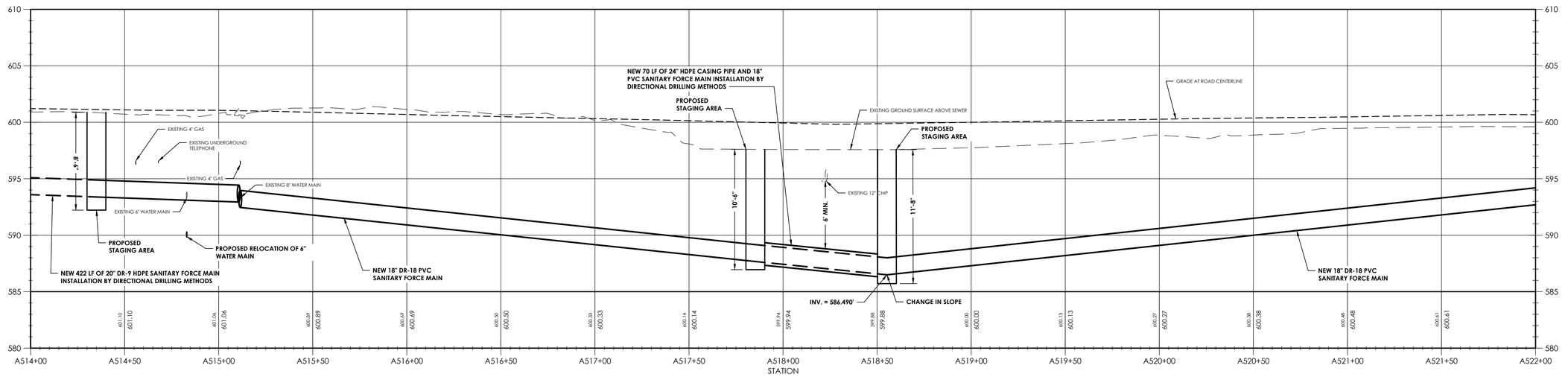
Date last accessed: 10/28/2020 10:04 AM
Date last plotted: 10/28/2020 10:29 AM
Plotted By: Nicole Cullen





ALLEGANY ROAD
STA. A514+00 TO STA. A522+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A514+00
TO STA. A522+00

PROJECT NUMBER
14822.00

FM
S-57
DRAWING NUMBER

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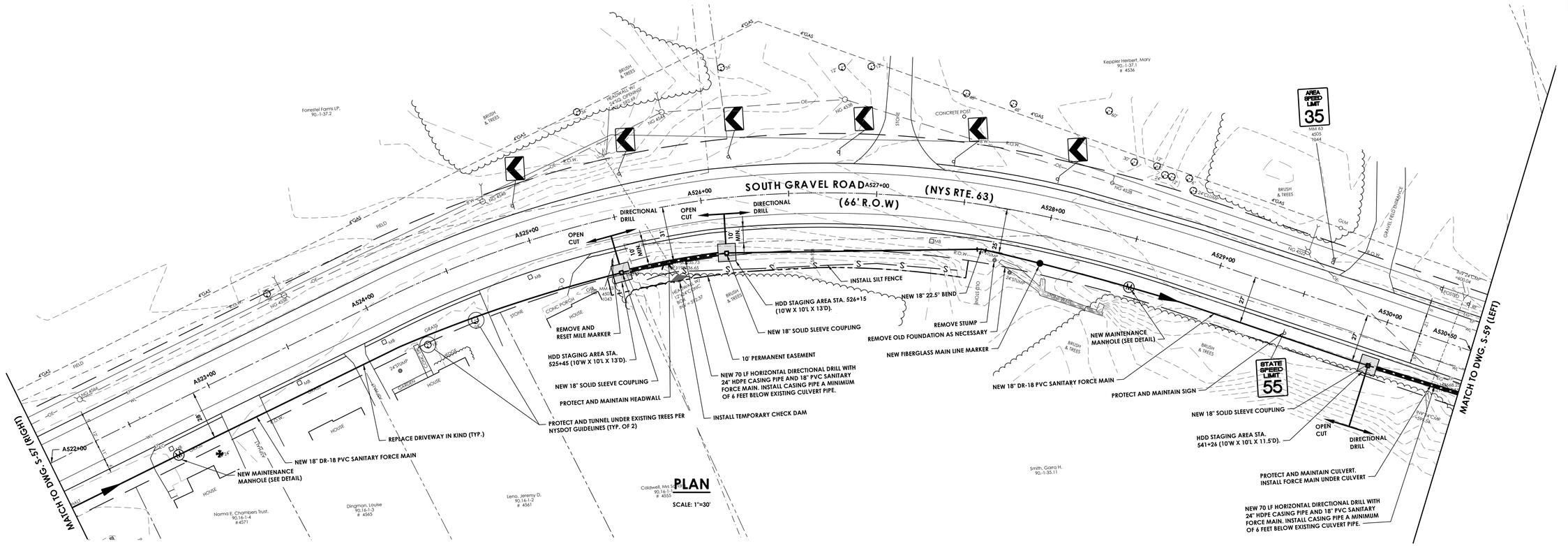

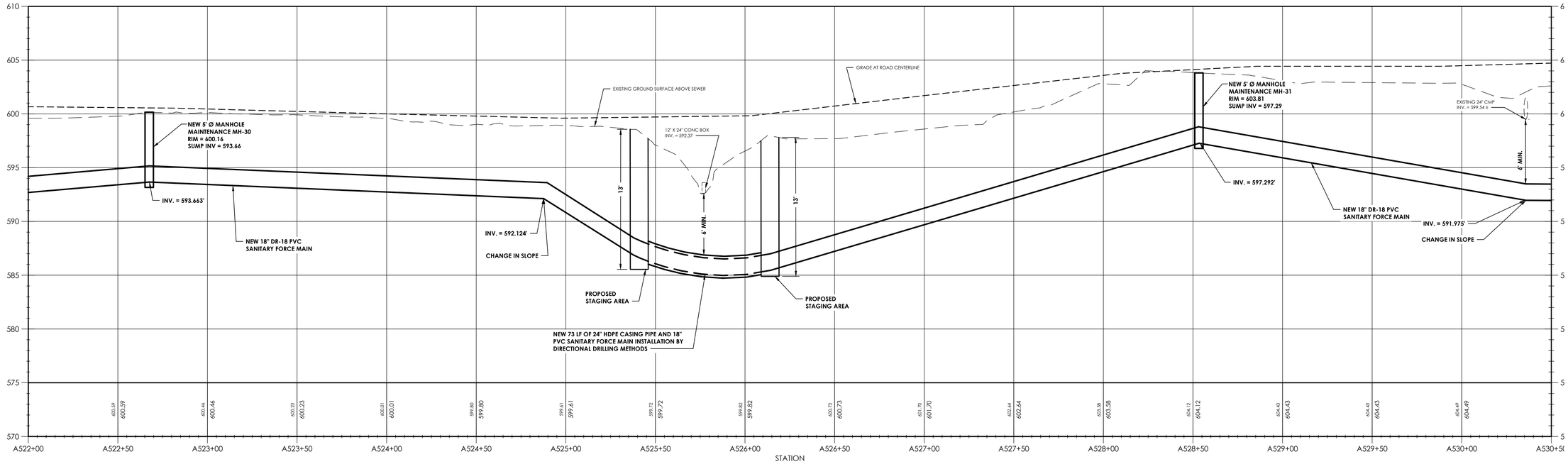

ALLEGANY ROAD
STA. A522+00 TO STA. A530+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS			
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE: AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A522+00
TO STA. A530+50

PROJECT NUMBER
14822.00

FM
S-58
DRAWING NUMBER

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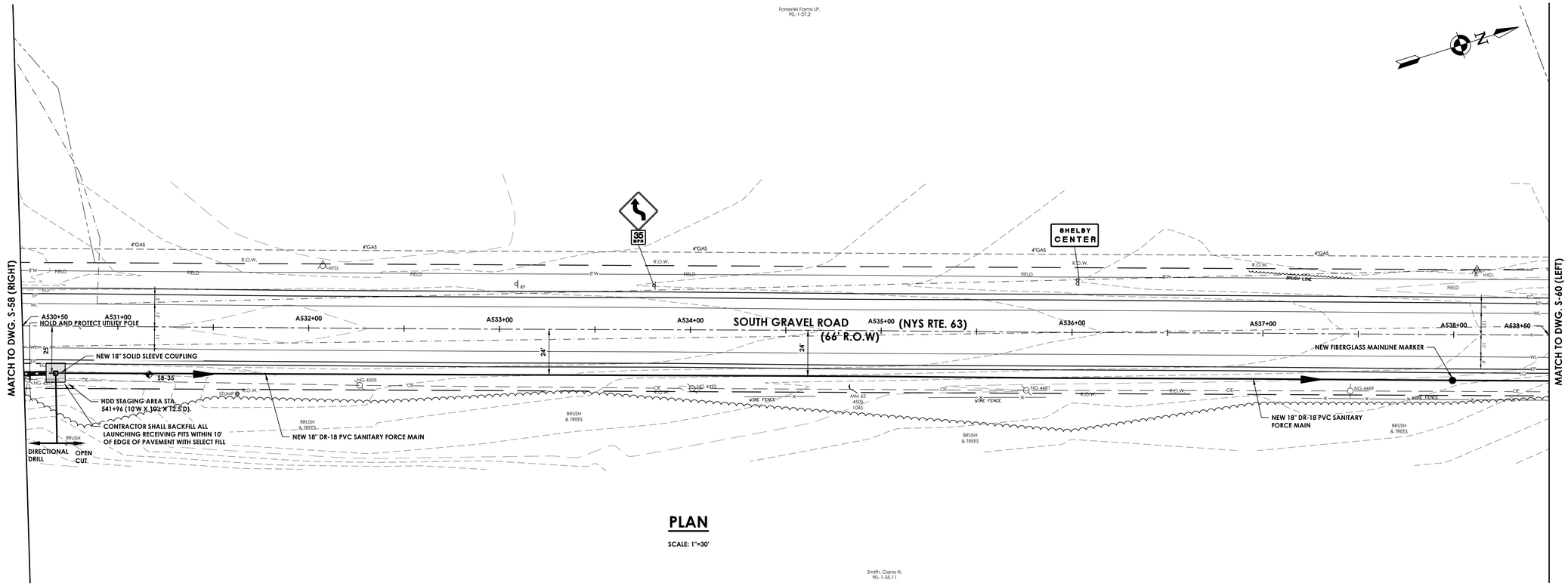
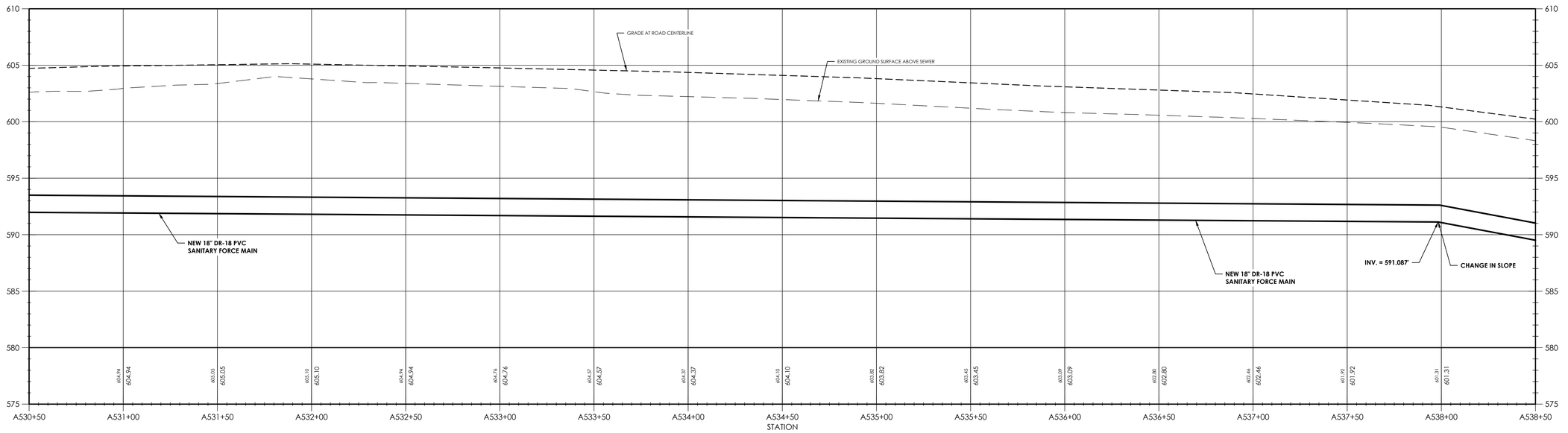


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A530+50 TO STA. A538+50

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A530+50
TO STA. A538+50

PROJECT NUMBER
14822.00

FM
S-59
DRAWING NUMBER

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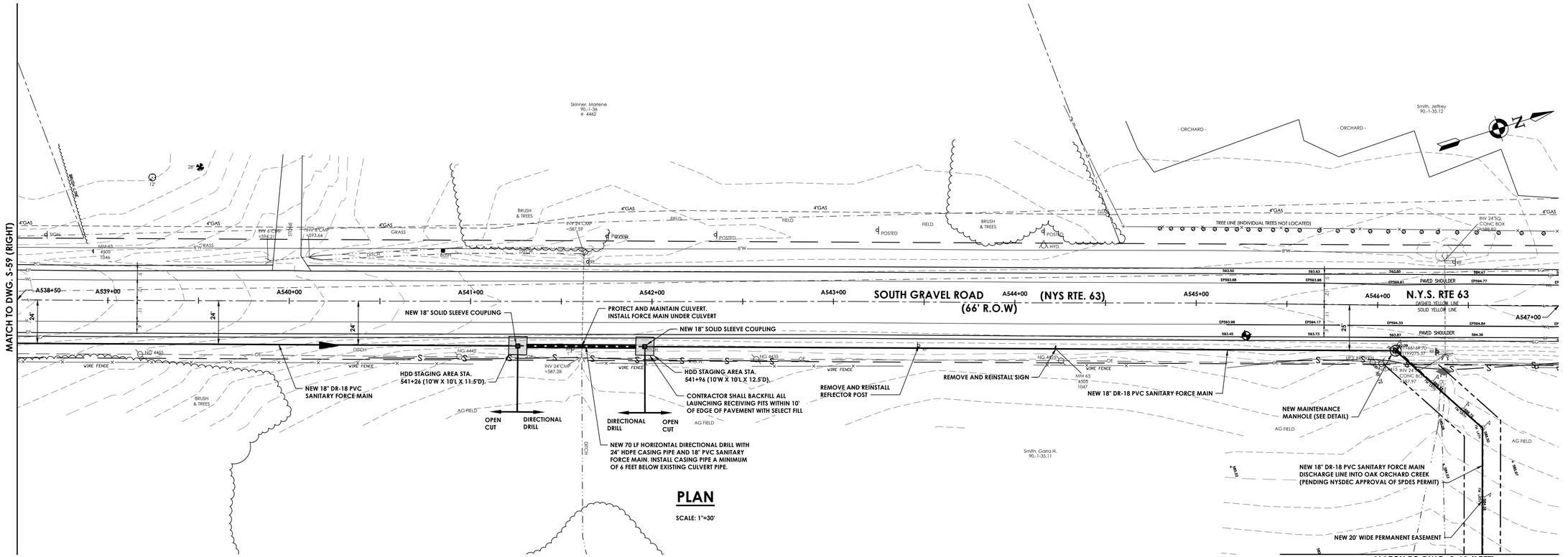
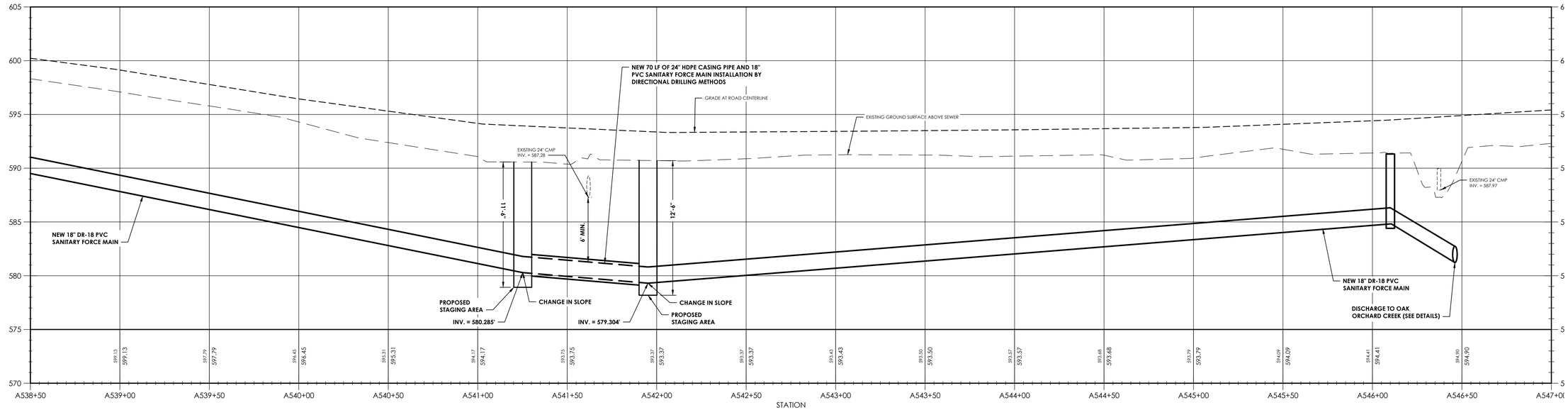
Date last accessed: 10/28/2020 10:04 AM Date last plotted: 10/28/2020 10:31 AM Plotted By: Nicole Cullen





ALLEGANY ROAD
STA. A538+50 TO STA. A547+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A538+50
TO STA. A547+00

PROJECT NUMBER
14822.00

FM
S-60
DRAWING NUMBER

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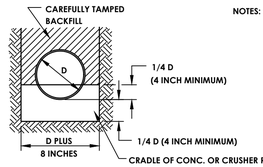
Drawing Name: J:_PROJECTS_GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Details\02 DETAILS-REV.dwg Date last accessed: 8/27/2020 3:28 PM Date last plotted: 10/28/2020 9:34 AM Plotted By: Nicole Cullen

WATER LINE-SEWER LINE CROSSING PROVISIONS

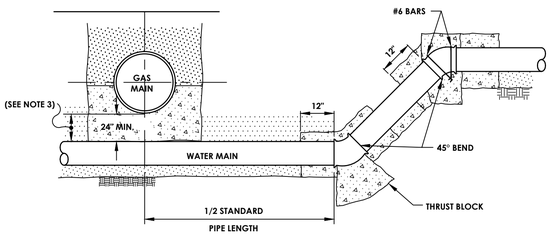
SITUATION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	WL 18 INCHES, MINIMUM SL	
II WATER LINE ABOVE SEWER LINE	WL MORE THAN 12 INCHES BUT LESS THAN 18 INCHES SL	A) WATER LINE AND SEWER LINE SHALL BE ONE FULL LENGTH CENTERED AT CROSSING, WHEN POSSIBLE. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR FULL LENGTH OF PIPE AT CROSSING. --OR-- WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR ONE FULL LENGTH OF PIPE.
III SEWER LINE ABOVE WATER LINE	SL MORE THAN 12 INCHES WL	A) WATER LINE AND SEWER LINE SHALL BE ONE FULL LENGTH CENTERED AT CROSSING, WHEN POSSIBLE. B) SLEEVE SEWER LINE WITH STEEL CASING FOR ENTIRE LENGTH OF PIPE (EACH SIDE OF CROSSING). C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE SANITARY SEWER/WATER MAIN CROSSING DETAIL THIS SHEET) FOR WATER LINE AND SEWER LINE FOR ENTIRE LENGTH OF PIPE EACH SIDE OF CROSSING.



NOTES: WL (WATER LINE)
SL (SEWER LINE, SANITARY OR STORM)
D (OUTSIDE DIAMETER OF PIPE)
IN NO CASE SHALL PIPE BE CLOSER THAN 12 INCHES APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE.

SANITARY SEWER / WATER MAIN CROSSING DETAIL

N.T.S.

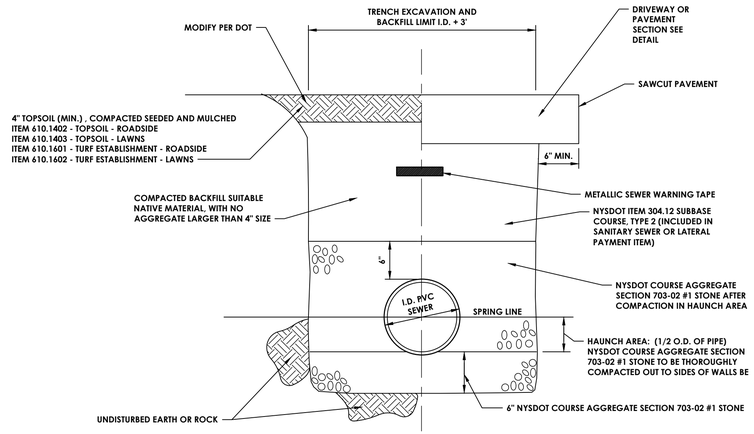


NOTES:

1. ONE STANDARD FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER THE GAS MAIN SO THAT BOTH JOINTS WILL BE AS FAR FROM THE GAS MAIN AS POSSIBLE.
2. THRUST RESTRAINT SHALL BE PROVIDED AT ALL BENDS.
3. THERE SHALL BE 24" MINIMUM VERTICAL SEPARATION BETWEEN GAS AND WATER MAINS AND SHALL CONSIST OF SAND OR SELECT FILL.
4. WARNING TAPE, IN ACCORDANCE WITH A.P.W.A. UNIFORM COLOR CODE, SHALL BE PLACED ABOVE UTILITY 12" BELOW GROUND, FOR A DISTANCE OF 25 FEET ON EITHER SIDE OF CROSSING.
5. WATER MAIN SHALL BE WRAPPED IN A POLYETHYLENE TUBE, WHICH MEETS ANSI/AWWA C105, FOR A DISTANCE OF 50 FEET ON EITHER SIDE OF THE PIPELINE CROSSING.
6. DUCTILE IRON WATER PIPE SHALL INCLUDE NITRILE GASKETS WITHIN 50 FEET OF THE PIPELINE CROSSING OR ANY WHERE WITHIN 25 FEET OF HORIZONTAL OFFSET LOCATIONS.

GAS / WATER MAIN CROSSING DETAIL

N.T.S.

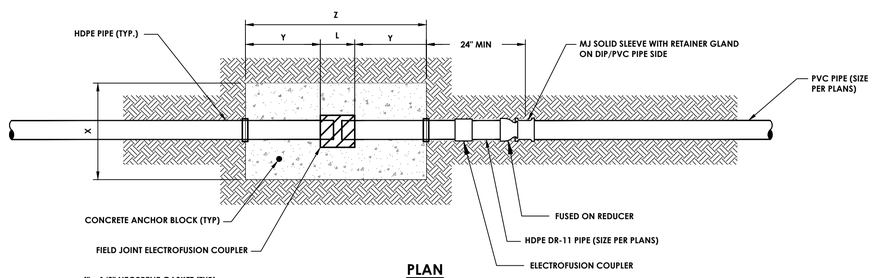


SANITARY SEWER AND LATERAL TRENCH DETAIL

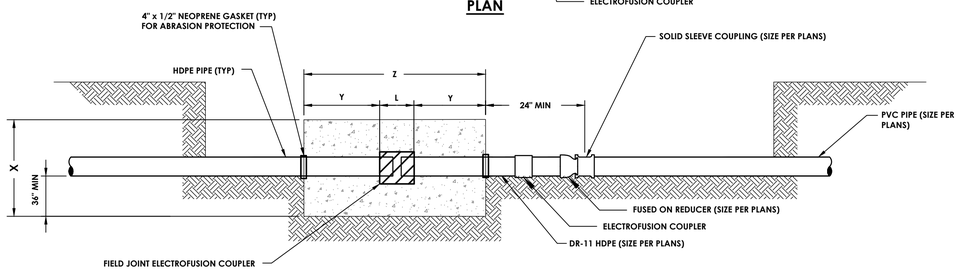
N.T.S.

NOTES:

1. CONTRACTOR TO PROVIDE SAFE EXCAVATION: SLOPE TRENCH WALLS, USE TRENCH BOX, OR SHEETING & BRACING PER OSHA SPECIFICATIONS. TRENCH BOX OR SHEETING AND BRACING TO BE LIFTED ABOVE THE SPRING LINE OF PIPE BEFORE BACKFILLING ABOVE SPRING LINE
2. PAVEMENT BACKFILL AND RESTORATION REQUIREMENTS SHALL APPLY TO WORK PERFORMED UNDER PROPOSED ROADWAYS.
3. ALL WORK FOR STORM SEWER TRENCHING SHALL BE INCLUDED IN THE STORM SEWER PIPE ITEMS. THIS WORK INCLUDES, BUT IS NOT LIMITED TO TRENCHING, EXCAVATION AND ALL BACKFILL. NO ADDITIONAL PAYMENTS WILL BE MADE FOR BACKFILL.
4. BACKFILL OF SUITABLE MATERIAL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS.
5. ALL DISTURBED AREAS SHALL BE MULCHED OR HAVE TURF ESTABLISHED WITHIN 10 DAYS EXCEPT IN WETLAND AREAS, WHERE IT SHALL BE WITHIN 5 DAYS.
6. ALL WORK SHALL CONFORM TO NYSDOT SPECIFICATIONS.
7. REFER TO SHEET D-07 FOR RESTORATION WITHIN THE NYSDOT'S R.O.W.



PLAN



PROFILE

NOTES:

1. L IS LENGTH OF ELECTROFUSION COUPLING.

HDPE TO PVC CONNECTION

N.T.S.

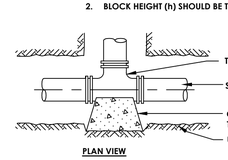
CONCRETE ANCHOR BLOCK

PIPE SIZE	X	Y	Z
6"	6.0'	12"	L + 2'
8"	6.5'	12"	L + 2'
12"	7.0'	24"	L + 4'
18"	7.0'	30"	L + 5'
20"	8.0'	36"	L+6'
24"	8.0'	42"	L + 7'

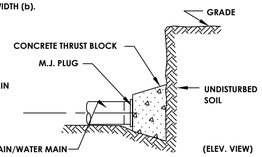
MINIMUM AREA OF BEARING FACE OF CONCRETE THRUST BLOCK (IN SQ.FT.) BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL						
PIPE SIZE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	TEE/ TS&V	PLUG
18"	27	13	8	4	36	36
24"	28	15.7	8	4	47	47

NOTES: 1. BLOCK HEIGHT (h) SHOULD BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (HT), BUT NOT LESS THAN PIPE DIAMETER (D).

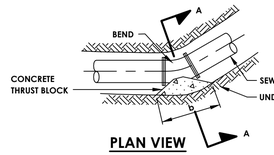
2. BLOCK HEIGHT (h) SHOULD BE TWO TIMES THE BLOCK WIDTH (b).

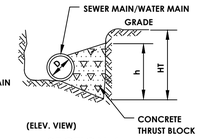


THRUST BLOCK FOR TEE



THRUST BLOCK FOR PLUG





SECTION A-A

NOTES:

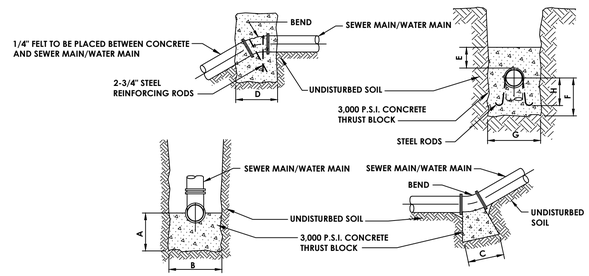
1. NO CONCRETE IS TO ENCOMPASS ANY BOLTS OR BELL ENDS WHERE POSSIBLE.
2. THRUST BLOCKS ARE TO EXTEND TO UNDISTURBED SOIL (INCLUDING ALL PITS).
3. MEGALUGS ARE TO BE USED IN ADDITION TO THRUST BLOCKS AT ALL FITTINGS.

HORIZONTAL THRUST BLOCK

N.T.S.

PIPE SIZE	BEND	Min. Volume of Concrete For Block dimensions D,E,F,G	MINIMUM ALLOWABLE DIMENSION FOR VERTICAL THRUST BLOCKS (IN FEET)							
			A	B	C	D	E	F	G	ROD LENGTH H
18"	11 1/4°	2.3 Cu. Yd.	1.0	2.5	2.7	2.0	0.5	1.0	2.0	0.5
	22 1/2°	4.6 Cu. Yd.	1.0	2.5	5.3	2.0	1.0	2.0	2.0	1.5
	45°	9.0 Cu. Yd.	1.5	2.5	10.4	2.5	1.5	2.0	2.5	1.5
	90°	17.0 Cu. Yd.	1.5	2.5	19.2	4.0	1.5	2.0	3.0	1.5
24"	11 1/4°	.35 Cu. Yd.	1.0	2.5	1.5	2.0	1.0	1.5	2.0	1.0
	22 1/2°	.7 Cu. Yd.	1.5	2.5	1.5	2.5	1.0	2.0	2.5	1.5
	45°	1.4 Cu. Yd.	1.5	2.5	2.0	4.0	1.5	2.0	3.0	1.5
	90°	2.6 Cu. Yd.	2.0	2.5	2.0	4.0	2.0	3.0	3.5	2.5

NOTE: THE DEVELOPER MAY ELECT TO USE REINFORCING RODS AS OPPOSED TO CONCRETE THRUST BLOCKS FOR VERTICAL BENDS. ALL THRUST RESTRAINT BY ROD SHALL BE APPROVED BY THE SEWER SYSTEM OPERATOR PRIOR TO INSTALLATION.



NOTES:

1. NO CONCRETE IS TO ENCOMPASS ANY BOLTS OR BELL ENDS WHERE POSSIBLE.
2. DIP FITTINGS SHALL BE WRAPPED WITH 2 MIL. THICK POLYETHYLENE, 2 FEET BEYOND FITTING ON PVC PIPE.
3. GRIP RING PIPE RESTRAINER SHALL BE USED AT ALL FITTING TO PVC PIPE CONNECTIONS.

VERTICAL THRUST BLOCK

N.T.S.

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GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

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TOWN OF ALABAMA
GENESEE COUNTY
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04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
MISCELLANEOUS DETAILS

PROJECT NUMBER
14822.00

FM
D-01
DRAWING NUMBER

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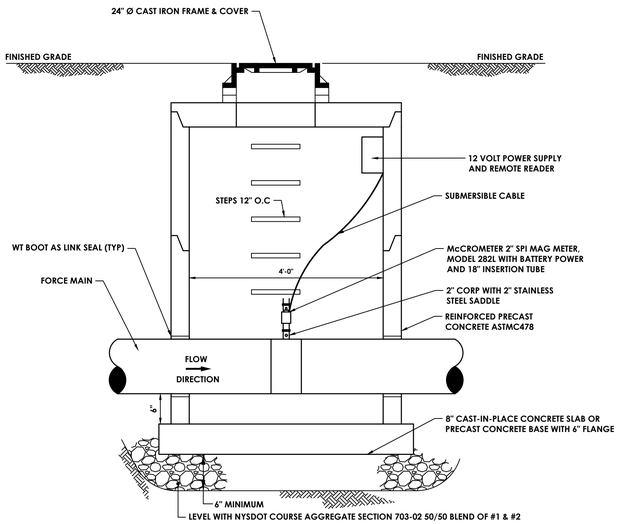
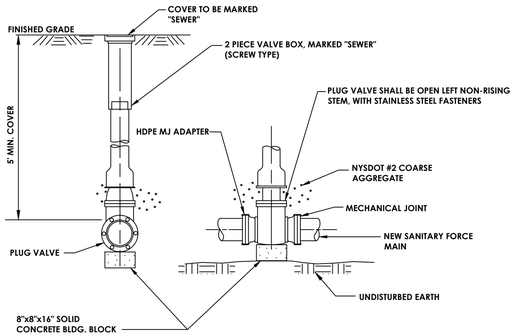


METERING MANHOLE

N.T.S

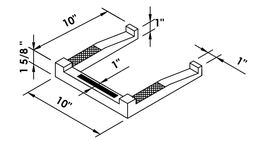


NOTES:

1. THE VALVE BOX SHALL BE CENTERED ON THE VALVE AND BACKFILLED SO THAT IT SETS ON COMPACTED FILL, NOT RESTING ON THE VALVE HOUSING.
2. ALL BOLTS AND NUTS SHALL BE FLUOROCARBON COATED.
3. VALVE SHALL BE WRAPPED WITH 2 MIL. THICK POLYETHYLENE 2' BEYOND END OF VALVE.
4. VALVE SHALL NOT SUPPORT VALVE BOX.
5. HDPE MJ ADAPTER IS REQUIRED TO CONNECT VALVE AND HDPE FORCE MAIN. ISCO PART Nos. ISMFMJ08D15FM, ISMFMJ10D150FM, OR EQUAL.
6. PLUG VALVES LARGER THAN 14" Ø SHALL BE WITH ACTUATED GEAR OPERATION.

ISOLATION PLUG VALVE DETAIL

N.T.S.

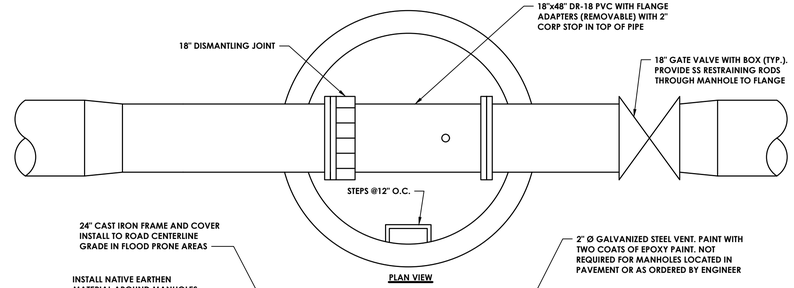


NOTES:

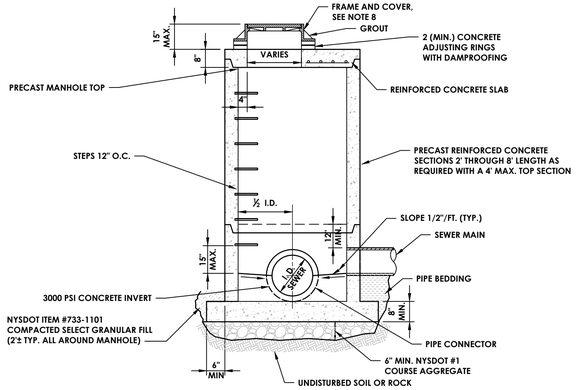
1. STEPS FOR DRAINAGE STRUCTURES SHALL CONFORM TO N.Y.S.D.O.T. MATERIAL SPECIFICATION 725-02.01. THE COST OF THE STEPS SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLES.
2. STEPS TO BE PLACED IN STRUCTURES GREATER THAN 4 FEET IN DEPTH.

MANHOLE STEP

N.T.S.



PLAN VIEW

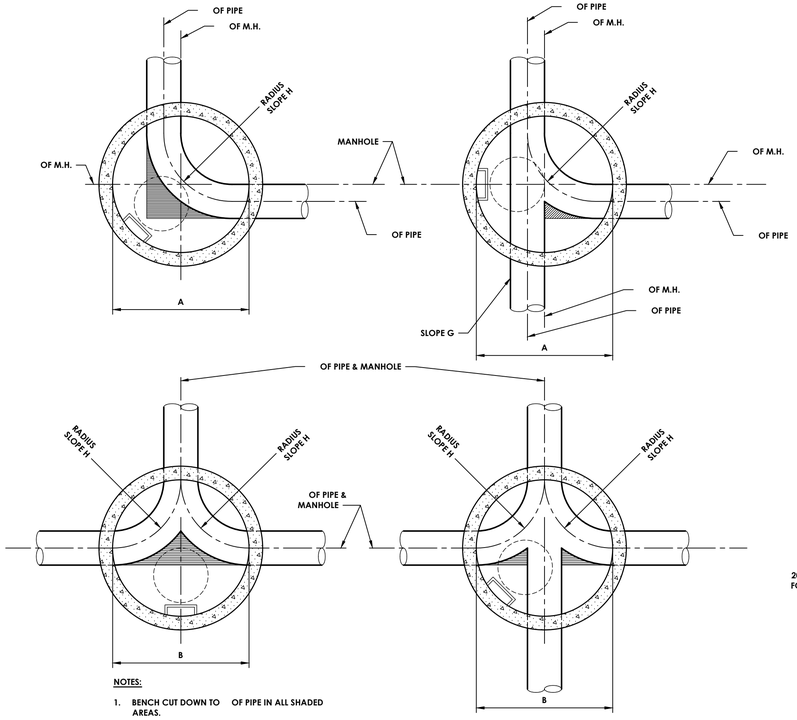


NOTES:

1. STUBS 4' MAX. R.C.P., 1' MAX. ALL OTHER PIPE MATERIALS FROM OUTSIDE FACE.
2. USE TWO COATS OF SIKAGUARD NO. 62 BY SIKA OR DURALCOTE BY DURAL OR APPROVED EQUIVALENT FOR INTERIOR COATING OF BASE TO TOP OF HIGHEST PIPE. USE TWO COATS OF KOPPERS SUPER SERVICE BLACK OR APPROVED EQUIVALENT ON OTHER INTERIOR AND ALL EXTERIOR SURFACES.
3. ALL RISER JOINTS SHALL BE RUBBER RING GASKETS CONFORMING TO A.S.T.M. C443 WITH FLEXIBLE JOINT SEALER ON OUTSIDE OF JOINTS.
4. PIPE CONNECTIONS TO MANHOLE BASE SHALL BE BELL WALL FITTINGS FOR R.C.P. WITH STEEL RING JOINTS. FOR ALL OTHER PIPES USE PRESS-SEAL CAST-A-SEAL 12-08 CAST IN BOOT OR PSX DIRECT DRIVE CONNECTOR. CONNECTION SHALL BE GROUTED AND ALL SURFACES COATED.
5. PRECAST BASES, RISER SECTIONS AND TOP SLABS SHALL CONFORM WITH A.S.T.M. C478.
6. CORED OPENINGS IN MANHOLE RISER SECTIONS SHALL NOT BE LESS THAN 6" FROM A RISER JOINT.
7. MANHOLE TOP SLABS, FRAMES AND COVERS SHALL BE DESIGNED FOR USE UNDER H-20 LOADING.
8. REQUIRE 24" I.D. FRAME AND COVER, NEENAH R-1713, OR APPROVED EQUAL.
9. ALL WORK FOR PRECAST SANITARY MANHOLES SHALL BE PAID FOR UNDER SANITARY PRECAST MANHOLE ITEMS. WORK INCLUDES EXCAVATION AND BACKFILL.

PRECAST SANITARY MANHOLE

N.T.S.



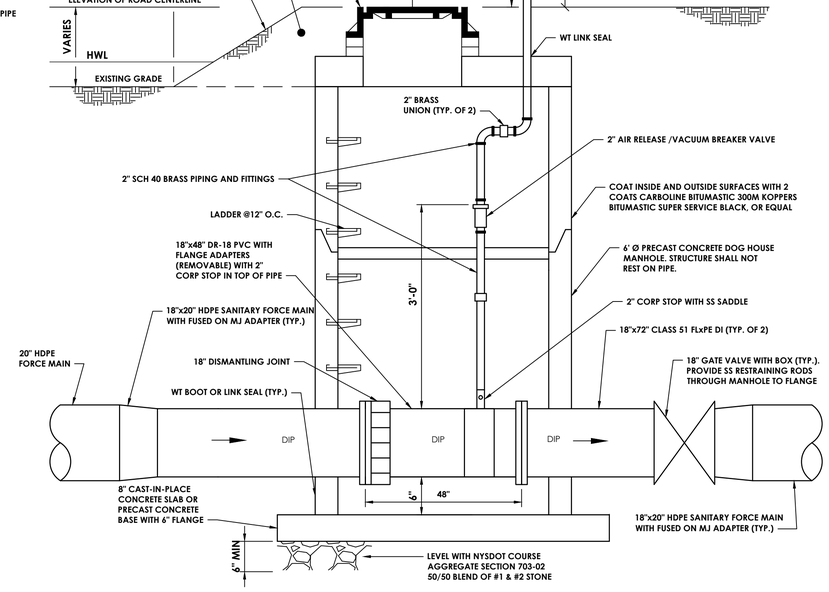
NOTES:

1. BENCH CUT DOWN TO OF PIPE IN ALL SHADED AREAS.
2. IF MANHOLE IS LESS THAN 5' DEEP THEN MANHOLE WILL BE 5' IN DIAMETER.

SEWER PIPE DIA.		8"	12"/15"
MANHOLE DIAMETER	A	4'-0"	5'-0"
	B	4'-0"	5'-0"
INVERT DIFF.	G	0.1'	0.1'
	H	0.1'	0.1'

STANDARD MANHOLE DIMENSIONS

N.T.S.



MAINTENANCE MANHOLE WITH IN THE IROQUOIS NATIONAL WILDLIFE REFUGE

N.T.S

NOTE: PROVIDE TWO CONTINUOUS FLAT BUTYL SEALS AT ALL MANHOLE JOINTS

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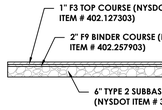
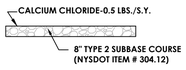
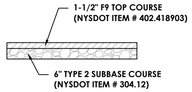


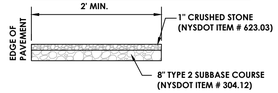
ASPHALT PARKING LOT/DRIVEWAY SECTION



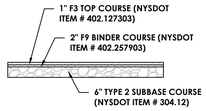
GRAVEL DRIVEWAY/PARKING AREA SECTION



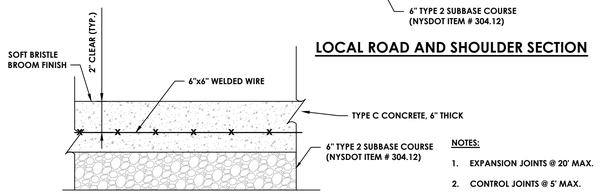
TEMPORARY PAVEMENT REPAIR



GRAVEL SHOULDER SECTION



LOCAL ROAD AND SHOULDER SECTION



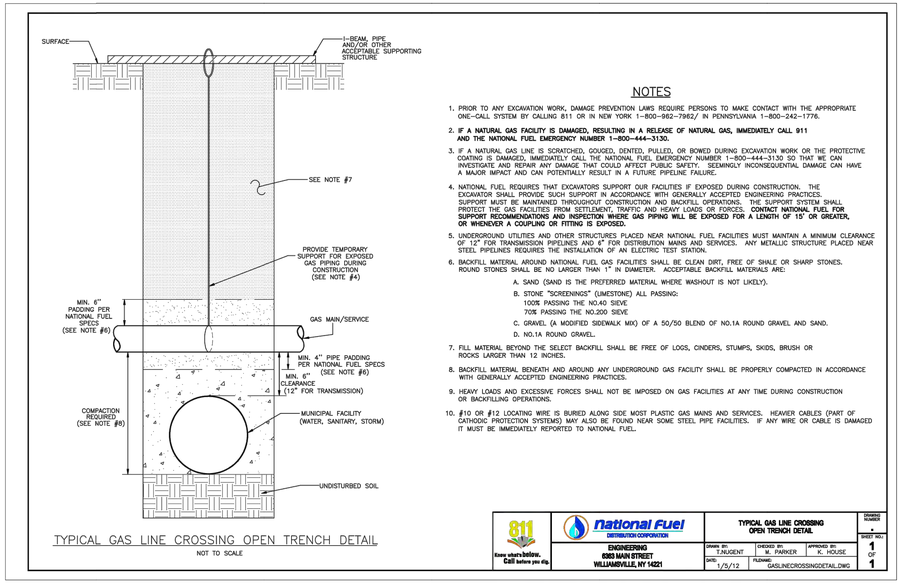
STANDARD DUTY REINFORCED CONCRETE PAD FOR DRIVEWAYS

NOTES:

1. EXISTING ROAD, SHOULDER, AND DRIVEWAY SECTIONS WHICH ARE DISTURBED SHALL BE REPLACED IN KIND USING THE VARIOUS TYPICAL SECTIONS AS SHOWN OR ORDERED BY THE ENGINEER.
2. ALL SEAMS BETWEEN EXISTING AND NEW ASPHALT SURFACES SHALL BE SEALED WITH ASPHALT FILLER CORRESPONDING TO THE MATERIAL REQUIREMENTS OF NYSDOT MATERIAL DESIGNATION 702-3401. THE COST TO BE INCLUDED IN THE VARIOUS WATER MAIN ITEMS.

ROAD, SHOULDER, AND DRIVEWAY REPLACEMENT

N.T.S.



TYPICAL GAS LINE CROSSING OPEN TRENCH DETAIL

NOT TO SCALE

NOTES

1. PRIOR TO ANY EXCAVATION WORK, DAMAGE PREVENTION LAWS REQUIRE PERSONS TO MAKE CONTACT WITH THE APPROPRIATE ONE-CALL SYSTEM BY CALLING 811 OR IN NEW YORK 1-800-962-7962/ IN PENNSYLVANIA 1-800-242-1776.
2. **IF A NATURAL GAS FACILITY IS DAMAGED, RESULTING IN A RELEASE OF NATURAL GAS, IMMEDIATELY CALL 911 AND THE NATIONAL FUEL EMERGENCY NUMBER 1-800-444-3130.**
3. IF A NATURAL GAS LINE IS SCRATCHED, GOUGED, DENTED, PULLED, OR BOWED DURING EXCAVATION WORK OR THE PROTECTIVE COATING IS DAMAGED, IMMEDIATELY CALL THE NATIONAL FUEL EMERGENCY NUMBER 1-800-444-3130 SO THAT WE CAN INVESTIGATE AND REPAIR ANY DAMAGE THAT COULD AFFECT PUBLIC SAFETY. SEEMINGLY INCONSEQUENTIAL DAMAGE CAN HAVE A MAJOR IMPACT AND CAN POTENTIALLY RESULT IN A FUTURE PIPELINE FAILURE.
4. NATIONAL FUEL REQUIRES THAT EXCAVATORS SUPPORT OUR FACILITIES IF EXPOSED DURING CONSTRUCTION. THE EXCAVATOR SHALL PROVIDE SUCH SUPPORT IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES. SUPPORT MUST BE MAINTAINED THROUGHOUT CONSTRUCTION AND BACKFILL OPERATIONS. THE SUPPORT SYSTEM SHALL PROTECT THE GAS FACILITIES FROM SETTLEMENT, TRAFFIC AND HEAVY LOADS OR FORCES. **CONTACT NATIONAL FUEL FOR SUPPORT RECOMMENDATIONS AND INSPECTION WHERE GAS PIPING WILL BE EXPOSED FOR A LENGTH OF 15' OR GREATER, OR WHENEVER A COUPLING OR FITTING IS EXPOSED.**
5. UNDERGROUND UTILITIES AND OTHER STRUCTURES PLACED NEAR NATIONAL FUEL FACILITIES MUST MAINTAIN A MINIMUM CLEARANCE OF 12" FOR TRANSMISSION PIPELINES AND 6" FOR DISTRIBUTION MAINS AND SERVICES. ANY METALLIC STRUCTURE PLACED NEAR STEEL PIPELINES REQUIRES THE INSTALLATION OF AN ELECTRIC TEST STATION.
6. BACKFILL MATERIAL AROUND NATIONAL FUEL GAS FACILITIES SHALL BE CLEAN DIRT, FREE OF SHALE OR SHARP STONES. ROUND STONES SHALL BE NO LARGER THAN 1" IN DIAMETER. ACCEPTABLE BACKFILL MATERIALS ARE:
   A. SAND (SAND IS THE PREFERRED MATERIAL WHERE WASHOUT IS NOT LIKELY).
   B. STONE "SCREENINGS" (LIMESTONE) ALL PASSING:
      100% PASSING THE NO.40 SIEVE
      70% PASSING THE NO.200 SIEVE
   C. GRAVEL (A MODIFIED SIDEWALK MIX) OF A 50/50 BLEND OF NO.1A ROUND GRAVEL AND SAND.
   D. NO.1A ROUND GRAVEL.
7. FILL MATERIAL BEYOND THE SELECT BACKFILL SHALL BE FREE OF LOGS, CINDERS, STUMPS, SKIDS, BRUSH OR ROCKS LARGER THAN 12 INCHES.
8. BACKFILL MATERIAL BENEATH AND AROUND ANY UNDERGROUND GAS FACILITY SHALL BE PROPERLY COMPACTED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES.
9. HEAVY LOADS AND EXCESSIVE FORCES SHALL NOT BE IMPOSED ON GAS FACILITIES AT ANY TIME DURING CONSTRUCTION OR BACKFILLING OPERATIONS.
10. #10 OR #12 LOCATING WIRE IS BURIED ALONG SIDE MOST PLASTIC GAS MAINS AND SERVICES. HEAVIER CABLES (PART OF CATHODIC PROTECTION SYSTEMS) MAY ALSO BE FOUND NEAR SOME STEEL PIPE FACILITIES. IF ANY WIRE OR CABLE IS DAMAGED IT MUST BE IMMEDIATELY REPORTED TO NATIONAL FUEL.

811 Know what's below. Call before you dig.

National Fuel DISTRIBUTION CORPORATION

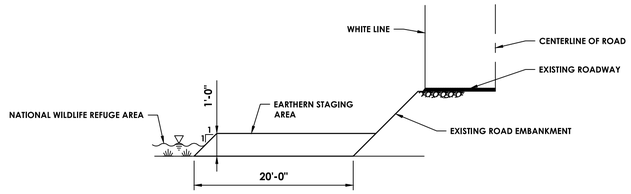
ENGINEERING
6363 MAIN STREET
WILLIAMSVILLE, NY 14221

TYPICAL GAS LINE CROSSING OPEN TRENCH DETAIL

DRAWN BY	CHECKED BY	APPROVED BY
T.NUGENT	M. PARKER	K. HOUSE

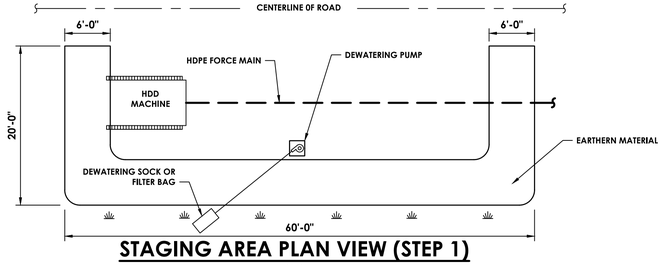
DATE: 1/5/12 FILENAME: GASLINECROSSINGDETAIL.DWG

DRAWING NUMBER: SHEET NO. 1 OF 1



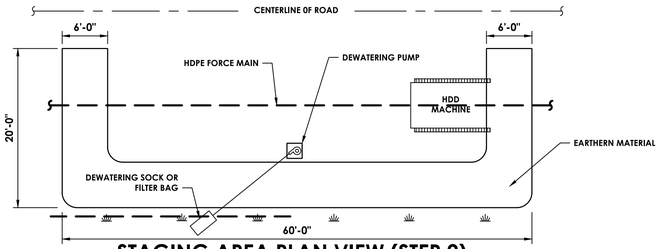
STAGING AREA SECTION VIEW

N.T.S



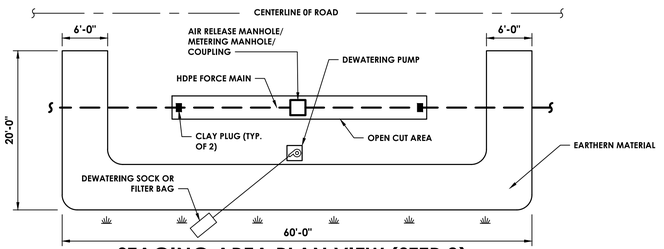
STAGING AREA PLAN VIEW (STEP 1)

N.T.S



STAGING AREA PLAN VIEW (STEP 2)

N.T.S



STAGING AREA PLAN VIEW (STEP 3)

N.T.S

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ARCHITECTURE = ENGINEERING = PLANNING
205 ST. PAUL STREET,
SUITE 500
ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
FAX (585) 454-7618

REVISIONS NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
MISCELLANEOUS DETAILS

PROJECT NUMBER
14822.00

FM
D-03
DRAWING NUMBER

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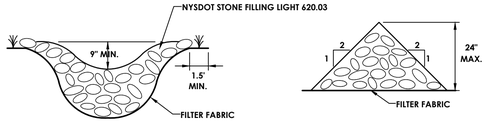
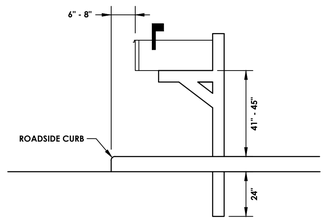
Drawing Name: J:_PROJECTS\GCEDC_STAMP Offsite Sewer_D Design_ACAD\Civil\Details\02 DETAILS-REV.dwg Date last accessed: 8/27/2020 3:28 PM Date last plotted: 10/28/2020 9:34 AM Plotted By: Nicole Cullen



SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT THE CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

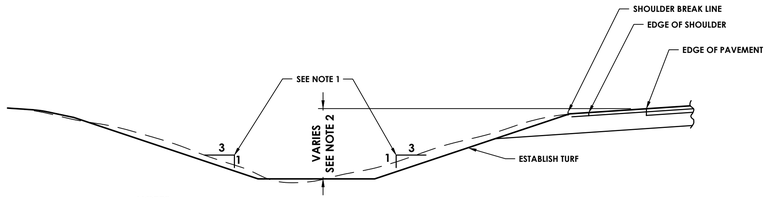
STONE CHECK DAM
N.T.S.



SPECIFICATIONS:

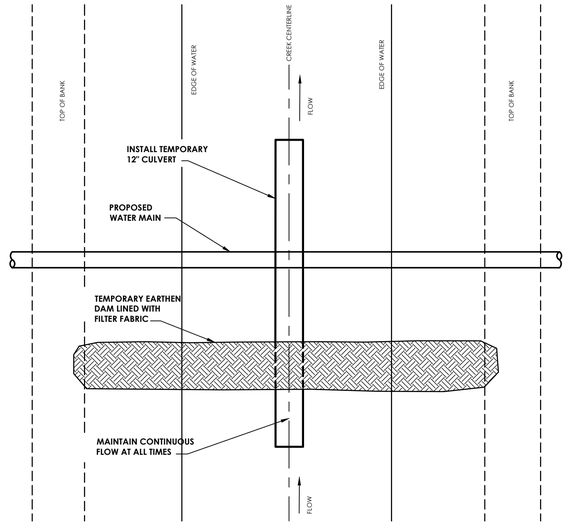
1. REMOVE AND REINSTALL MAILBOX PER NYSDOT ITEM 619.27 (TYP.)

MAILBOX INSTALLATION DETAIL
N.T.S.

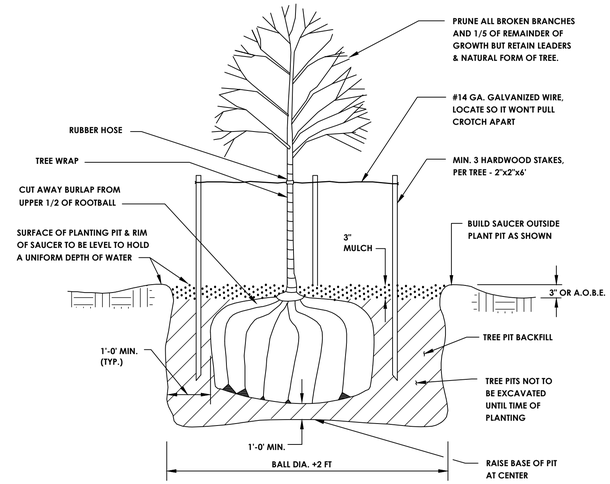


NOTES:
1. SIDE SLOPES MAY VARY IN AREAS OF LIMITED R.O.W.
2.MAXIMUM DITCH DEPTH SHALL BE APPROXIMATELY 3'

TYPICAL DITCH RESTORATION DETAIL
N.T.S.

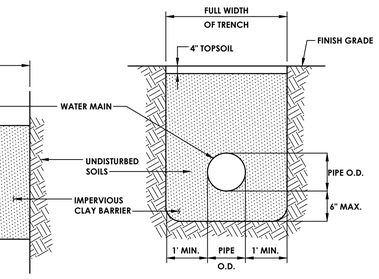


TEMPORARY COFFERDAM DETAIL
N.T.S.



NOTES:
1. REMOVE SOIL SAUCER STAKES, WIRE & HOSE AT THE END OF WARRANTY PERIOD.

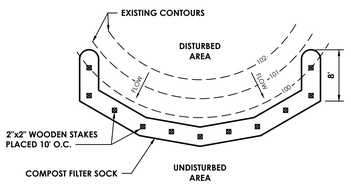
TREE PLANTING (IN LAWN AREA)
N.T.S.



PLAN SECTION

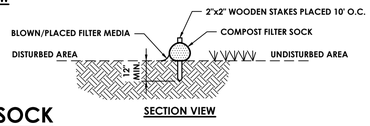
NOTES:
1. CONTRACTOR SHALL INCLUDE COST FOR TRENCH PLUGS IN WATER MAIN PAYMENT ITEM.

CLAY PLUG
N.T.S.



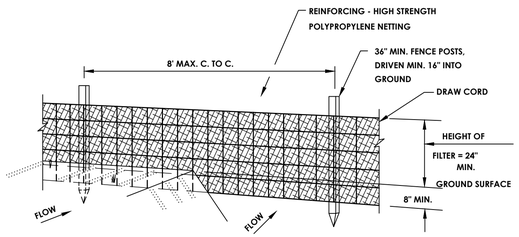
PLAN VIEW

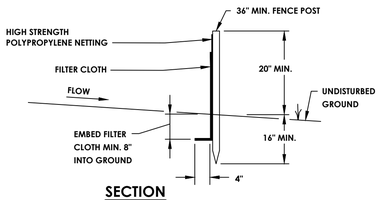
DIA. (IN.)	SLOPE %						
	2	5	10	20	25	33	50
8	225*	200	100	50	20	-	-
12	250	225	125	65	50	40	25
18	275	250	150	70	55	45	30
24	350	275	200	130	100	60	35
32	450	325	275	150	120	75	50
* LENGTH IN FEET							



SECTION VIEW

COMPOST FILTER SOCK
N.T.S.





SECTION

CONSTRUCTION NOTES FOR FABICATED SILT FENCE

1. SILT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POLYPROPYLENE NETTING WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. NETTING MAY BE INCORPORATED INTO FILTER CLOTH.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. COMPOST FILTER SOCK OR "SILT SOCK" MAY BE SUBSTITUTED FOR SILT FENCE AFTER APPROVAL BY THE ENGINEER.

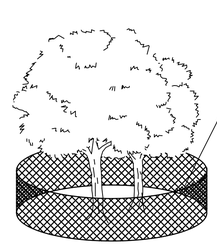
POSTS: STEEL (EITHER T OR U TYPE) OR 2" HARDWOOD.

FENCE: HIGH STRENGTH POLYPROPYLENE NETTING

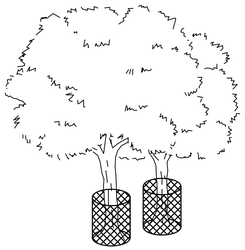
FILTER CLOTH: CARTHAGE MILLS FX-11M, SKAPS INDUSTRIES GT-140, OR APPROVED EQUAL.

PREFABICATED UNIT: ENVIROFENCE, OR APPROVED EQUAL.

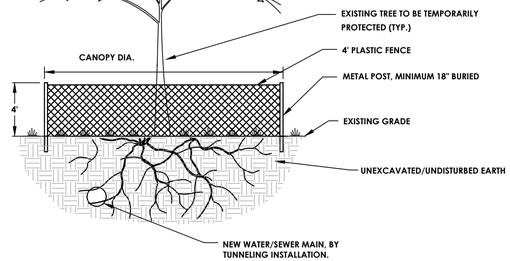
SILT FENCE
N.T.S.



CORRECT INSTALLATION



INCORRECT INSTALLATION



NOTES FOR TRENCHING AND BORING AROUND TREES:

1. WHEN THE EDGE OF TRENCH IS WITHIN 10 FEET OF ANY TREE OR SHRUB, TEMPORARY PLASTIC BARRIER FENCE SHALL BE INSTALLED TO PROVIDE TREE OR SHRUB WITH THE MAXIMUM AREA OF PROTECTION POSSIBLE.
2. WHEN TRENCHING NEXT TO ANY TREE, AND ROOTS 2 INCHES OR LARGER MUST BE CUT, SHOVEL BY HAND NEAR THE ROOTS AND SAW THE ROOTS. ACCIDENTALLY BROKEN ROOTS SHOULD BE SAWED 2 INCHES BEHIND THE BROKEN END.
3. WHEN TRENCHING NEXT TO ANY TREE OR SHRUB, DO NOT PILE SOIL BETWEEN THE TRENCH AND THE TREE OR SHRUB. PLACE SOIL ON THE FAR SIDE OF THE TRENCH FROM THE TREE. WHEN THIS IS NOT POSSIBLE, PLACE SOIL ON PLYWOOD, A TARP OR A 2 INCH LAYER OF MULCH.
4. FOR TREES WITH A 3 TO 6 INCH DIAMETER BREAST HEIGHT (DBH), TRENCHING SHALL COME NO CLOSER TO THE TREE THAN THE DRIPLINE. IF THE DRIPLINE OF THE TREE CANNOT BE AVOIDED THEN BORING SHALL OCCUR. BORING SHALL BEGIN AND END A MINIMUM OF 5 FEET FROM BOTH SIDES OF THE TREE.
5. THE UTILITY LINE SHALL NE BORED WHEN TREES WITH A 6 INCH OR LARGER DBH ARE WITHIN 12 FEET OF THE PROPOSED WATER MAIN. THE MINIMUM DISTANCE OF BORING FROM BOTH SIDES OF THE TREE IS DETERMINED BY THE DBH OF TREE AS SPECIFIED IN THE ACCOMPANYING TABLE:

WHEN DBH OF TREE IS:	TRENCHING SHALL BE REPLACED BY BORING AT THIS MINIMUM DISTANCE FROM BOTH SIDES OF THE TREE:
6-9 INCHES	5 FEET
10-14 INCHES	10 FEET
15-19 INCHES	12 FEET
OVER 19 INCHES	15 FEET

6. WHEN BORING UNDER TREES, THE BORE SHALL BE A MINIMUM OF 3 FEET DEEP.

UTILIZING THE TABLE ABOVE, A TREE THAT HAS A 12 INCH DBH, BORING WOULD START AT LEAST 10 FEET BEFORE THE TREE TRUNK AND END AT LEAST 10 FEET AFTER THE TREE TRUNK, A MINIMUM 21 FOOT LONG BORE WOULD BE REQUIRED.

TREE PROTECTION & TUNNELING
N.T.S.

CPLteam.com
ARCHITECTURE = ENGINEERING = PLANNING
205 ST. PAUL STREET,
SUITE 500
ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
FAX (585) 454-7618

REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
MISCELLANEOUS DETAILS

PROJECT NUMBER
14822.00

FM
D-04
DRAWING NUMBER

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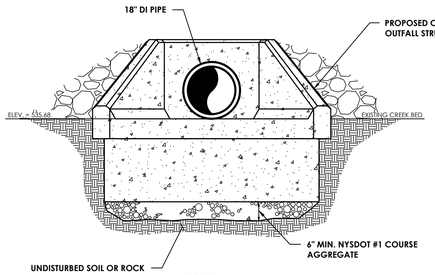
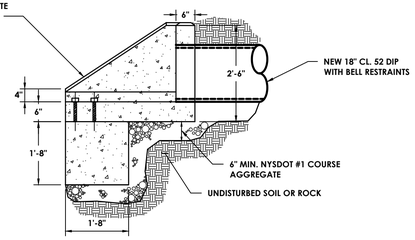
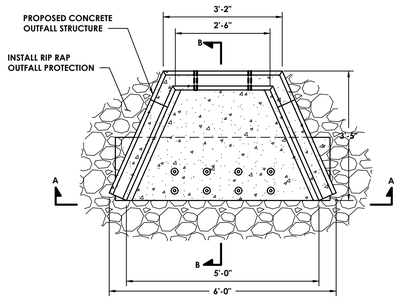


SECTION A-A
1/2" = 1'-0"



SECTION B-B
1/2" = 1'-0"



PLAN
1/2" = 1'-0"

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205 ST. PAUL STREET,
SUITE 500
ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
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GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
OUTFALL STRUCTURE DETAILS

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14822.00

FM
D-05
DRAWING NUMBER

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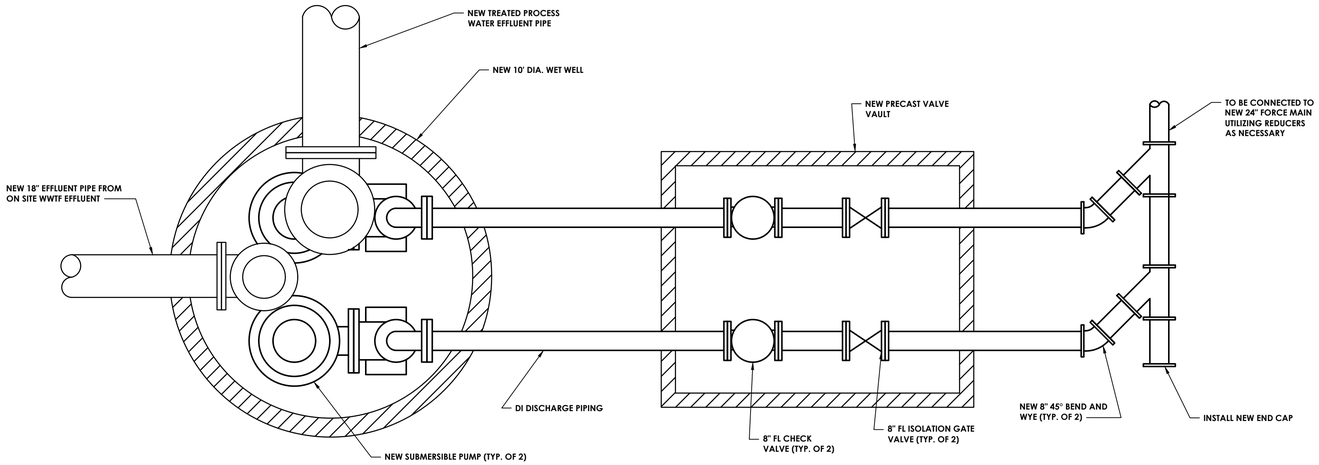
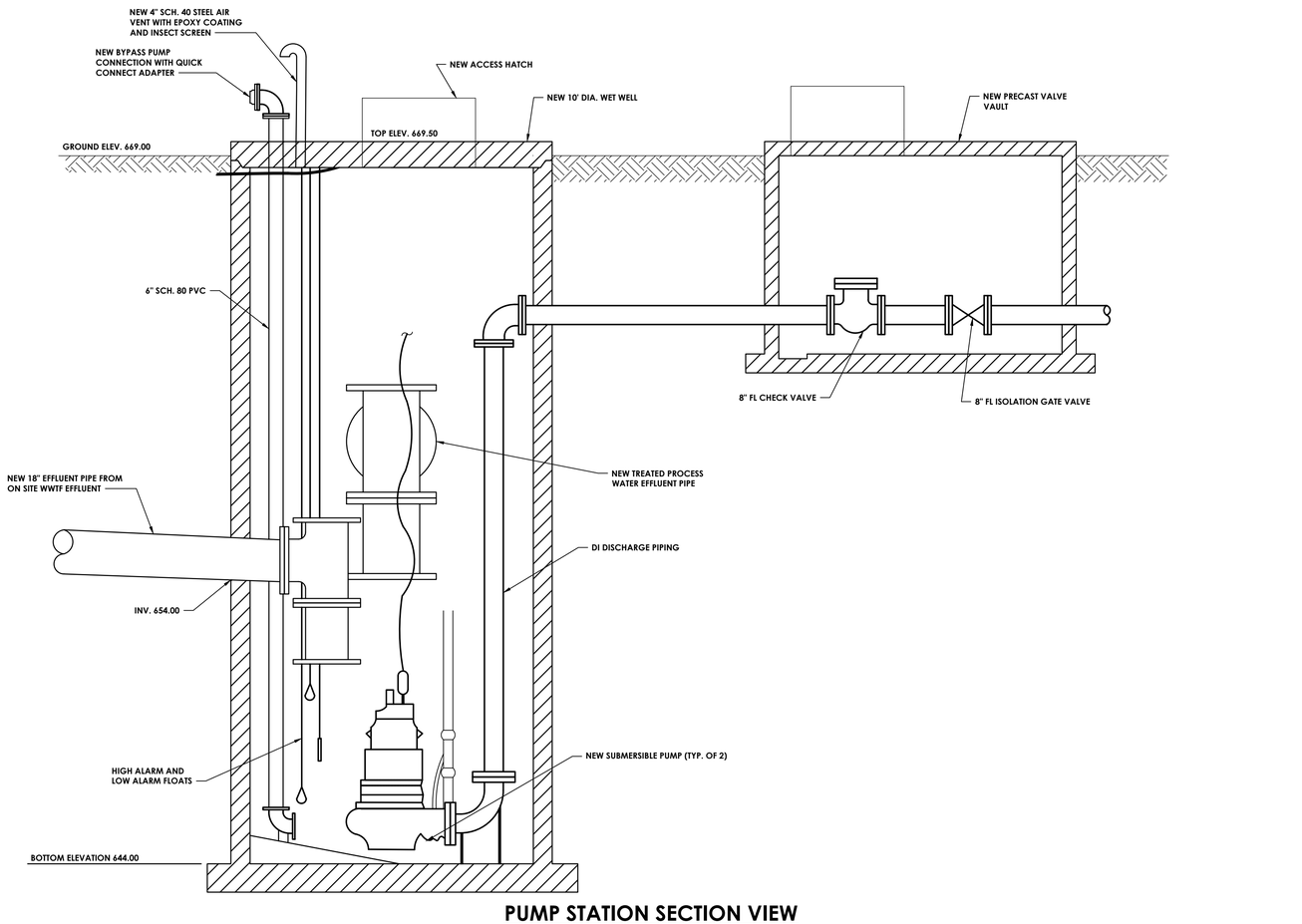


PUMP STATION PLAN VIEW

SCALE: 3/8"= 1'-0"



PUMP STATION SECTION VIEW

SCALE: 3/8"= 1'-0"

CPLteam.com
ARCHITECTURE = ENGINEERING = PLANNING
205 ST. PAUL STREET,
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REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

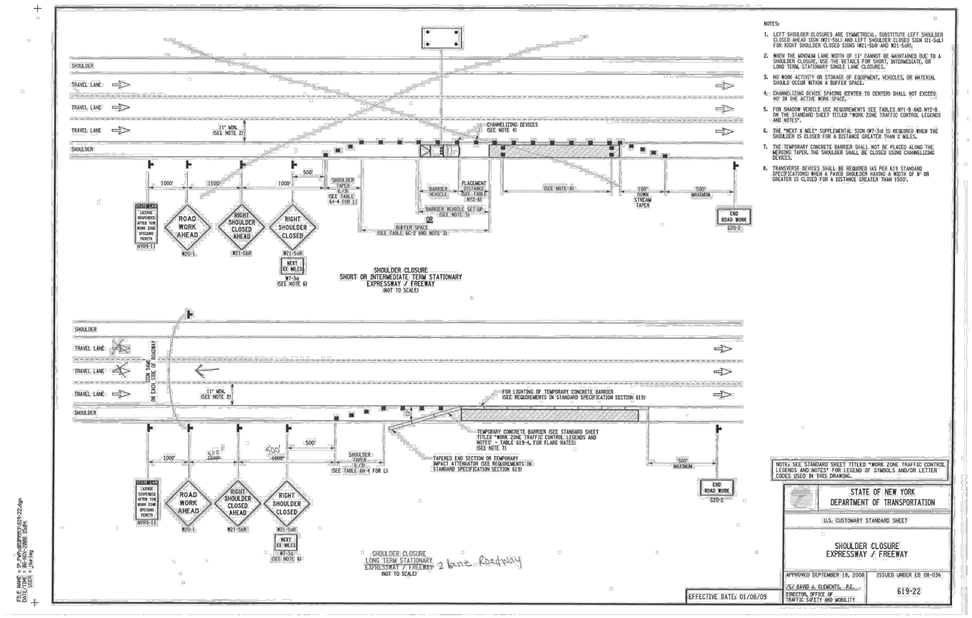
SHEET TITLE
PUMP STATION DETAILS

PROJECT NUMBER
14822.00

FM
D-06
DRAWING NUMBER

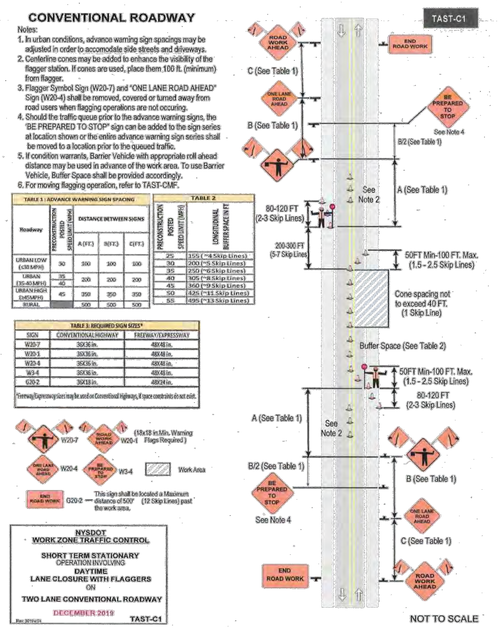
Drawing Name: J:_PROJECTS\GCEDC_STAMP Offsite Sewer\D Design\ACAD\Civil\Details\02 DETAILS-REV.dwg Date last accessed: 8/27/2020 3:28 PM Date last plotted: 10/28/2020 9:34 AM Plotted By: Nicole Cullen

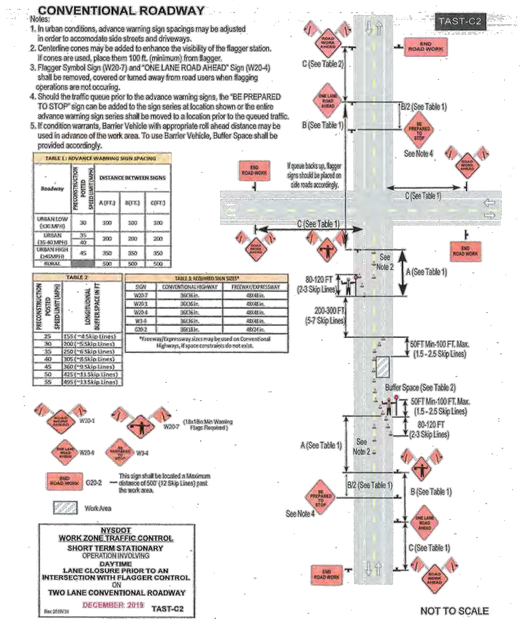
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

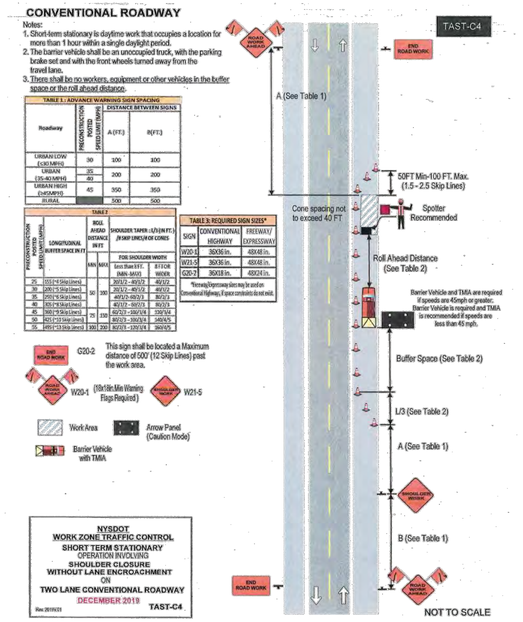


NOTES:

1. **TEMPORARY TRAFFIC SIGNALS SHALL NOT BE UTILIZED ON STATE HIGHWAYS. AUTOMATED FLAGGER ASSISTANCE DEVICES (AFAD'S) WILL BE APPROVED BASED ON THE WORK LOCATION OF EACH PROJECT SPECIFIC HIGHWAY WORK PERMIT.**
2. **ALL ROUTE 63 SIDE ROAD INTERSECTIONS WITHIN THE PROJECT LIMITS REQUIRE A HARD FACE 36"X36" ROAD WORK AHEAD SIGN FOR THE DURATION O THE PROJECT.**
3. **CONTRACTOR SHALL MAINTAIN STOP CONTROL, SIGHT DISTANCE AND STOP CONTROL SIGHT DISTANCE AT SIDE ROAD INTERSECTIONS WITH STATE HIGHWAYS AT ALL TIMES DURING PROJECT CONSTRUCTION AND RESTORATION OPERATIONS.**







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REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	NCB	TAC

SCALE AS NOTED

SHEET TITLE
MAINTENANCE AND PROTECTION OF TRAFFIC NOTES & DETAILS

PROJECT NUMBER
14822.00

FM
MPT-01
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Drawing Name: J:_PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Details\03 MPT DETAILS.dwg Date last plotted: 10/28/2020 9:34 AM Plotted By: Nicole Cullen Date last accessed: 8/26/2020 2:24 PM

Drawing Name: J:_PROJECTS_GCEDC_STAMP Offsite Sewer_D Design_ACAD_Civil_Details_03 MPT DETAILS.dwg Date last accessed: 8/26/2020 2:24 PM Date last plotted: 10/28/2020 9:34 AM Plotted By: Nicole Cullen

FILE NAME = $(FULLNAME)
PLOT STYLE = $(PSTYLE)
USER = $(USER)

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
EXIT	E5-1	C	----------	72"X60"	72"X60"
EXIT ONLY	G20-1	A	36"X18"	48"X24"	48"X24"
EXIT ONLY	G20-2	A	36"X18"	48"X24"	48"X24"
EXIT ONLY	G20-4	A	24"X18"	----------	----------
EXIT	G20-5aP	A	24"X18"	36"X24"	36"X24"
RAMP XXX MPH	W5-1	G	SEE 2 NOTE 2	36"X36"	36"X36"
CURVE XXX MPH	W1-1?	G	5 SIGNS 30"X24"	45"X36"	45"X36"
XXX	W1-4?	B	SEE 2 NOTE 2	36"X36"	36"X36"
XXX	W1-4?	B	5 SIGNS 30"X24"	45"X36"	45"X36"
NORTH	W2-1				
EAST	W2-2	SEE NOTE 2	24"X12"	36"X18"	36"X18"
SOUTH	W2-3				
WEST	W2-4				
REVERSE	W4-8	A	24"X12"	36"X18"	36"X18"
TWO WAY TRAFFIC	W4-6a	A	24"X18"	24"X18"	24"X18"
ONE WAY	W4-5	A	30"X24"	48"X36"	48"X36"
ONE WAY TRAFFIC	W4-5a	A	30"X24"	30"X24"	----------
ONE WAY TRAFFIC	W4-5b	A	30"X24"	30"X24"	----------
TWO WAY TRAFFIC	W4-5c	A	30"X24"	30"X24"	----------
DETOUR	W4-10L	A	48"X18"	48"X18"	48"X18"
DETOUR	W4-10R	A	48"X18"	48"X18"	48"X18"
	W5-1	SEE NOTE 2	21"X15"	30"X21"	30"X21"
	W5-2	SEE NOTE 2	21"X15"	30"X21"	30"X21"
	W5-1				
	W5-2	SEE NOTE 2	21"X15"	30"X21"	30"X21"
	W4-1				
	W4-4				
XXX	W7W1-1	B	24"X24"	36"X36"	36"X36"
XXX	W7W2-1	B	30"X24"	45"X36"	45"X36"
XXX	W7W3-1	B	30"X24"	45"X36"	45"X36"

WORK ZONE TRAFFIC CONTROL SIGN TABLE

SIGN	SIGN DESIGNATION	COLOR CODE	CONVENTIONAL ROAD	EXPRESSWAY	FREEWAY
ROAD CLOSED TO THRU TRAFFIC	W20-1aL	B	60"X30"	60"X30"	----------
	W20-1aL	A	36"X36"	48"X48"	48"X48"
	W1-6L W1-6LR	A	36"X36"	48"X48"	48"X48"
	W1-6L W1-6LR	A	36"X36"	48"X48"	48"X48"
	W1-6L W1-6LR	A	36"X36"	48"X48"	48"X48"
	W1-6L	A	48"X24"	60"X30"	60"X30"
	W1-6R	A			
	W1-6L	A, BORDERS	18"X24"	30"X36"	30"X36"
	W1-6R	A, BORDERS			
	W1-6	A?	36"X36"	48"X48"	48"X48"
	W2-2	A?	36"X36"	48"X48"	48"X48"
	W3-3	A?	36"X36"	48"X48"	48"X48"
	W3-4	A?	36"X36"	48"X48"	48"X48"
	W3-5	A?	36"X36"	48"X48"	48"X48"
	W4-1 W4-2R	A	36"X36"	48"X48"	48"X48"
	W4-1 W4-2R	A	36"X36"	48"X48"	48"X48"

ROADWAY DEFINITIONS:
CONVENTIONAL ROAD = A STREET OR HIGHWAY OTHER THAN A FREEWAY, OR EXPRESSWAY.

EXPRESSWAY = A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY = A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

COLOR CODE LEGEND

CODE	DESCRIPTION
A	BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND
B	BLACK LEGEND AND BORDER ON A WHITE BACKGROUND
C	WHITE LEGEND AND BORDER ON A GREEN BACKGROUND
D	WHITE LEGEND AND BORDER ON A BLUE BACKGROUND
E	RED LEGEND AND BORDER ON A BLUE BACKGROUND
F	BLACK LEGEND AND BORDER ON A FLUORESCENT YELLOW GREEN BACKGROUND
G	WHITE LEGEND AND BORDER ON A BLUE AND RED BACKGROUND

NOTES:
1. DIMENSIONS ARE SHOWN AS WIDTH X HEIGHT.
2. FOR SIGNAGE NOT SHOWN ON THESE TABLES REFER TO THE M.U.T.C.D.
3. COLORS FOR DIRECTION PLACES, ADVANCE TURN, ARTERIAL AND ROUTE MARKER SIGNS SHALL CONFORM TO THE COLORS OF SUBSTITUTE SIGN THAT THEY SUPPLEMENT AS PER THE M.U.T.C.D.
4. MULTI-COLORED SIGNS SHALL SUPPLY SIGN WITH BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.
5. FOR SIGNS WITH LARGER DIMENSIONS SHALL BE USED WHEN SIGN FACES MULTIPLE LANES ON A CONVENTIONAL ROAD.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SIGN TABLE
(SHEET 1 OF 2)

APPROVED APRIL 1, 2013
/S/ TODD WESTHUES, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 13-010

619-12

EFFECTIVE DATE: 05/03/2012

FILE NAME = $(FULLNAME)
PLOT STYLE = $(PSTYLE)
USER = $(USER)

TABLE NY1-A
BARRIER VEHICLE USE REQUIREMENTS
(LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION[1]	USE REQUIREMENTS[4,5] FREEWAY	USE REQUIREMENTS[4,5] NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT) ≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (E.G. EQUIPMENT, MATERIALS, EXCAVATIONS, ETC.) NO WORKERS EXPOSED	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED[3]	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]
	NON-TRAVERSABLE HAZARD (E.G. EQUIPMENT, MATERIALS, EXCAVATIONS, ETC.) NO WORKERS EXPOSED	REQUIRED[3]	OPTIONAL[2]	OPTIONAL[2]	OPTIONAL[2]

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE TABLE 6C-3 SHALL BE PROVIDED.
3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER IF OCCUPIED IN WHOLE OR PART BY WORKERS. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRAVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE WHERE BARRIER VEHICLE PLACEMENT WOULD BE DEFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE TABLE SHALL BE PROVIDED.
5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE TABLE6C-3 SHALL BE PROVIDED.

TABLE NY1-B
SHADOW VEHICLE USE REQUIREMENTS
(MOBILE CLOSURES)

CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT) ≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[3,4]	REQUIRED[3,4]	REQUIRED[3,4]	REQUIRED[3,4]
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED[3,4]	REQUIRED[3,4]	REQUIRED[3,4]	REQUIRED[3,4]

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 55 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 50 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS 4M FOOT OR IN A VEHICLED AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER IF OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE ENCHANCED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S) MPH	TAPER LENGTH (L) FT (L)
≤40 MPH OR LESS	$L = WS^2/60$
≥45 MPH OR MORE	$L = WS$

L = TAPER LENGTH
W = WIDTH OF OFFSET FT(L)
S = PRECONSTRUCTION POSTED SPEED LIMIT MPH

STANDARD TAPER LENGTHS

LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT (S) MPH	(S) MPH	(S) MPH	(S) MPH	(S) MPH	(S) MPH	(S) MPH	(S) MPH
	25 MPH OR LESS	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH OR MORE
4	45	60	85	110	180	200	225	240
5	55	75	105	135	225	250	275	300
6	65	90	125	160	270	300	330	360
7	75	105	145	190	315	350	385	420
8	85	120	165	215	360	400	440	480
9	95	135	185	240	405	450	495	540
10	105	150	205	270	450	500	550	600
11	115	165	225	295	495	550	605	660
12	125	180	245	320	540	600	660	720

TABLE 6C-3
TAPER LENGTHS FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT, MAXIMUM
DOWNSTREAM TAPER	100 FT, PER LANE

TABLE 6C-2
LONGITUDINAL BUFFER SPACE

PRECONSTRUCTION POSTED SPEED LIMIT MPH	DISTANCE
25	100 FT
30	100 FT
35	100 FT
40	100 FT
45	100 FT
50	100 FT
55	100 FT
60	100 FT
65	100 FT

TABLE NY2-A
PLACEMENT DISTANCE FOR BARRIER VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT MPH	PLACEMENT DISTANCE (FT) BARRIER VEHICLE[1]* (1000D LBS.) MINIMUM	(1000D LBS.) MAXIMUM	(2400D LBS.) MINIMUM	(2400D LBS.) MAXIMUM
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 – 55	100 FT.	165 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619.

BARRIER VEHICLE – VEHICLE USED FOR STATIONARY SHIELDED CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.

WORKMAN DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B
PLACEMENT DISTANCE FOR SHADOW VEHICLES

PRECONSTRUCTION POSTED SPEED LIMIT MPH	PLACEMENT DISTANCE (FT) SHADOW VEHICLE[1]* (1000D LBS.) MINIMUM	(1000D LBS.) MAXIMUM	(2400D LBS.) MINIMUM	(2400D LBS.) MAXIMUM
> 55	230 FT.	350 FT.	180 FT.	280 FT.
45 – 55	165 FT.	280 FT.	130 FT.	230 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

* AS DEFINED IN NYSDOT STANDARD SPECIFICATION 619.

SHADOW VEHICLE – VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

WORKMAN DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE 6H-5
FLARE RATES FOR POSITIVE BARRIER

TYPE OF POSITIVE BARRIER	POSTED SPEED LIMIT 30 MPH	40 MPH	50 MPH	55 MPH	60 MPH
TEMPORARY CONCRETE BARRIER	8:1	15:1	15:1	20:1	25:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	14:1	11:1	13:1	17:1

TABLE NY6H-3
ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS A (FT.)	B (FT.)	C (FT.)	SIGN LEGEND XX	YY
URBAN (≤ 35 MPH)*	100	100	100	AHEAD	AHEAD
URBAN (OV-40 MPH)*	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH)*	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	½ MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE SPACE/LANES, CLOSED DRAINAGE SYSTEMS, CURBS, STREET LIGHTS, TRAFFIC SIGNALS, MORE THAN 1 MAJOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS.

EXPRESSWAY: BOUNDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

WORK DURATION DEFINITIONS

LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.

INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.

SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

WORK ZONE TRAFFIC CONTROL LEGEND

SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PVMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
LEGENDS AND NOTES

APPROVED SEPTEMBER 18, 2008
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036

619-11

EFFECTIVE DATE: 01/08/09

FILE NAME = $(FULLNAME)
PLOT STYLE = $(PSTYLE)
USER = $(USER)

GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL, BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL SUBMIT ALL SUBMITTALS TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL CLOSURE SIGNS AND ANY CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET, LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD, WHERE NOT SPECIFIED, THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
7. NY99-12 MAY BE USED IN PLACE OF NY99-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTED USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'; THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA WALL AHEAD DISTANCES.
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

APPROVED SEPTEMBER 18, 2008
/S/ DAVID J. CLEMENTS, P.E.
DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036

619-10

EFFECTIVE DATE: 01/08/09

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GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
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SHEET TITLE
MAINTENANCE AND PROTECTION OF TRAFFIC NOTES & DETAILS

PROJECT NUMBER
14822.00

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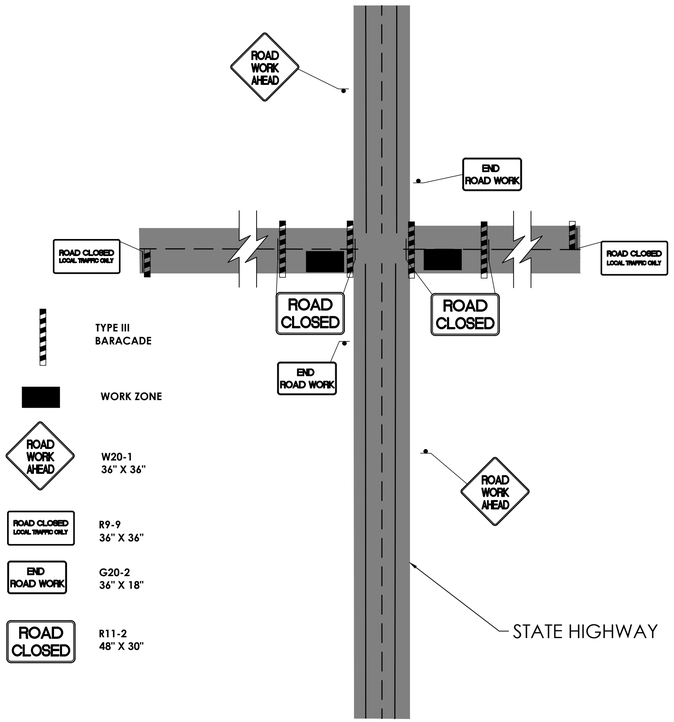


LOCAL ROAD CLOSURE DETAIL

N.T.S.

Standard General Plan Notes

1. ROAD TO BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE NEW YORK STATE RIGHT-OF-WAY.
4. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE CURRENT NATIONAL MUTCD WITH NYS SUPPLEMENT, SECTION 619 OF THE CURRENT NYSDOT STANDARD SPECIFICATIONS, THESE PLANS AND AS ORDERED BY THE ASSISTANT RESIDENT ENGINEER. ON A NYSDOT CONSTRUCTION PROJECT, MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THESE PLANS AND BE IN ACCORDANCE WITH THE NYSDOT CONTRACT DOCUMENTS AS DEEMED NECESSARY BY THE NYS ENGINEER-IN-CHARGE.
5. NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S ASSISTANT RESIDENT ENGINEER AT THE APPROPRIATE NUMBER, AS NOTED BELOW, FIVE (5) WORK DAYS PRIOR TO WORKING WITHIN THE STATE RIGHT-OF-WAY.

GENESEE CO.	-	**DAN STAHLEY (585) 343-8502**	**LIVINGSTON CO.**	-	**ADAM KISIAH (585) 346-3036**
MONROE CO.	-	**WEST OF GENESEE RIVER DARRELL FAZIO (585) 352-3471**	**MONROE CO.**	-	**EAST OF GENESEE RIVER KEVIN KIESER (585) 586-4514**
ONTARIO CO.	-	**GREG TROST (585) 396-4955**	**ORLEANS CO.**	-	**ANDREW SHICK (585) 589-6655**
WAYNE CO.	-	**GREG TROST (585) 396-4955**	**WYOMING CO.**	-	**KATHRYN MURRAY (585) 786-3310**

IN ADDITION, THE PERMITTEE SHALL NOTIFY NYSDOT REGIONAL TRAFFIC OPERATIONS CENTER (RTOC) OF ALL LANE AND SHOULDER CLOSURES AT LEAST THREE (3) DAYS IN ADVANCE OF THE PROPOSED WORK UTILIZING RTOC'S CONSTRUCTION NOTIFICATION FORM. RTOC'S CONTRUCTION NOTIFICATION FORM CAN BE OBTAINED FROM THE 511NY NOTIFICATION LINK AT THE WORK ZONE TRAFFIC CONTROL ICON ON THE REGION 4 PERMITS WEBSITE: WWW.DOT.NY.GOV/R4WORKPERMITS.

PROPOSED CLOSURES WILL BE REVIEWED FOR CONCURRENT AND OVERLAPPING CLOSURE OR INCIDENT CONFLICTS AND WILL BE ENTERED INTO 511NY.ORG. CLOSURES INCLUDED IN THE NOTIFICATION SHALL CONFORM TO TIME, DATE, AND LOCATION RESTRICTIONS IN THE PERMIT. RTOC MAY DISALLOW OR REDUCE CLOSURES DUE TO OTHER CLOSURES OR WORK, EVENTS, OR INCIDENTS FOUND IN CONFLICT WITH THE PROPOSED CLOSURE(S).

ALL LANE AND SHOULDER CLOSURES SHALL BE REMOVED DURING NON-WORKING HOURS, EXCEPT WHERE AUTHORIZED BY THE NYSDOT REGIONAL TRAFFIC ENGINEER OR DESIGNEE.

6. NOTIFY THE NYSDOT TRAFFIC SIGNAL MAINTENANCE ENGINEER AT (585) 753-7793 5 DAYS PRIOR TO WORKING WITHIN 350' OF A SIGNALIZED INTERSECTION. NOTIFY DIG SAFELY NEW YORK 2 WORK DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 811 FOR A UTILITY STAKE-OUT.
7. ALL MATERIALS USED WITHIN THE STATE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
8. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 401 OF THE STANDARD SPECIFICATIONS. ALL ASPHALT PRODUCED AS PART OF SECTION 401 WILL BE PAID AT A FINAL QUANTITY ADJUSTMENT FACTOR OF 1.0. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE COMPACTED DEPTHS.
9. NO NIGHT WORK SHALL BE ALLOWED UNLESS APPROVED PRIOR TO START OF PROJECT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC MAY BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
10. HAZARDOUS WASTE NOTIFICATION - THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS "AS IS" CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER, SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE PERMITTEE IS REQUIRED TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURES, FEATURES OR IMPEDIMENTS IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS APPROVED BY THE DEPARTMENT OF TRANSPORTATION.
11. ADA COMPLIANCE – ALL WORK ON PEDESTRIAN FACILITIES SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

01/2020

NYSDOT Region 4 Utility Permit Notes

- Road pavement, shoulder and drainage are not to be disturbed or undermined unless indicated otherwise in the plans.
- Suitable non-frozen, non saturated backfill to be used and placed in 6" compacted lifts.
- Pavement to be maintained until a permanent repair can be made.
- Pavement to be replaced in kind or as specified on attached plans.
- All disturbed grass areas within the R.O.W. are to be fine graded, 4" topsoil placed and turf established.

Note

Road plates shall **NOT** be used during the "Snow and Ice Season" (November 1st through April 1st). During the months of October and April, call the work area jurisdictional N.Y.S.D.O.T. Transportation Maintenance Residency with plate locations. Road plates shall be pinned and ramped. A "STEEL PLATE AHEAD" sign (W8-24) shall be installed in advance of the plate in accordance with Table NY6H-3 on Standard Sheet 619-11. If the surface of the plate is 1" or greater above/below the surrounding pavement, a "BUMP" sign (W8-1) shall be installed between the plate and "STEEL PLATE AHEAD" sign in accordance with Table NY6H-3 on Standard Sheet 619-11 and a barrel with a Type A flasher shall be placed on the shoulder at the plate.

Winter Asphalt Pavement and Shoulder Restoration

Excavation backfill shall be with suitable (non-frozen and non-saturated) gravel placed in six inch (6") compacted courses to four inches (4") from the existing pavement surface. The remaining four inches (4") shall have concrete placed to match existing adjacent pavement grade and shall have a good, smooth, non-polished riding surface.

In the spring, when asphalt plants open, the concrete and adequate gravel shall be removed in order to perform final restoration per previously approved N.Y.S.D.O.T. pavement restoration procedures.

Test Pits

All test pits in the pavement shall be completed by an 18" square/round vacuum excavation.

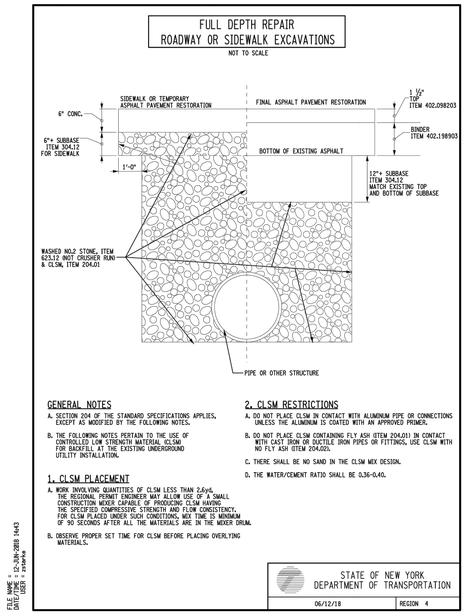
Excavation Support System Requirements

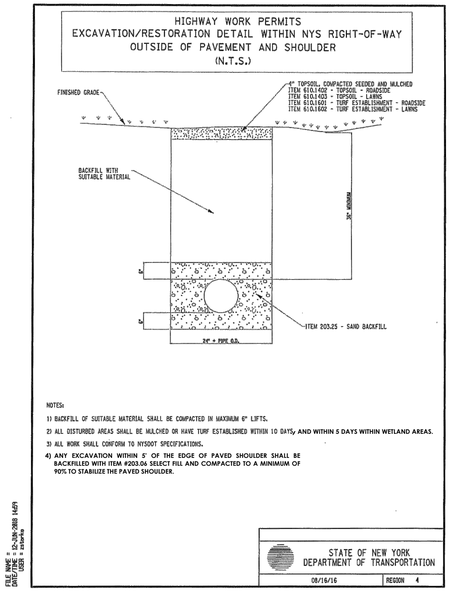
Any excavations 5 feet or more in depth shall utilize a shields and shoring or sheeting system which provides direct contact and support of the excavation sides. The system shall accommodate any associated surcharge loads and shall be submitted to NYSDOT's Regional Geotechnical Engineer for review and approval prior to permit issuance.

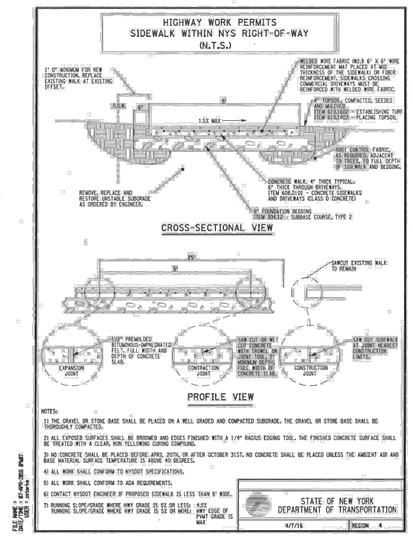
A sloping (layback) option will not be allowed.

Shields and shoring or sheeting system requirements do not pertain to test pits which are 18" or less in diameter.

R-4 (3/14)







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MAINTENANCE AND PROTECTION OF TRAFFIC NOTES & DETAILS

PROJECT NUMBER
14822.00

FM
MPT-03
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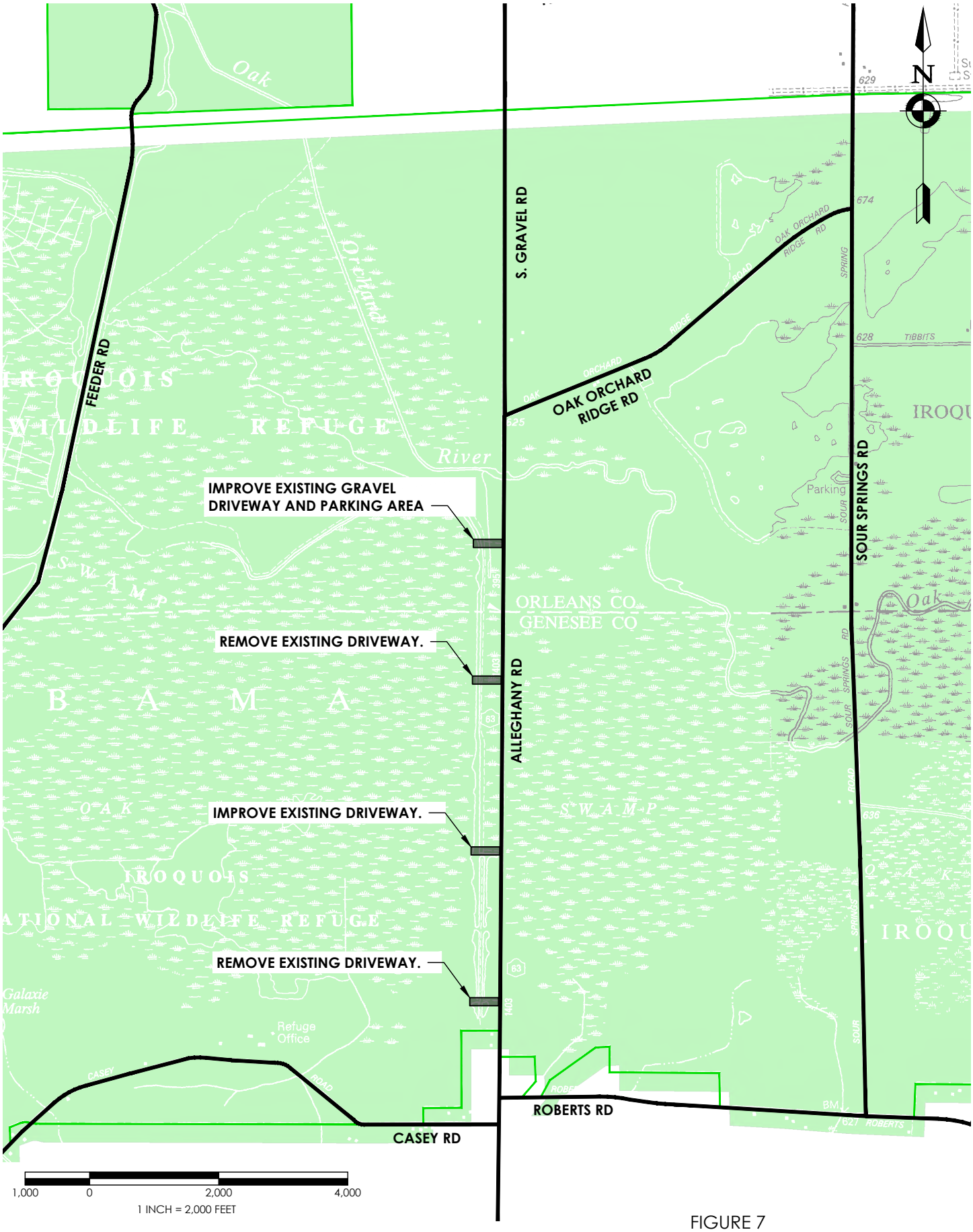

FIGURE 7

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PROJ. #:	XXXX.XX

INWR ENHANCEMENT MAP

PROJECT TITLE

CITY, STATE

Referenced Drawings: None
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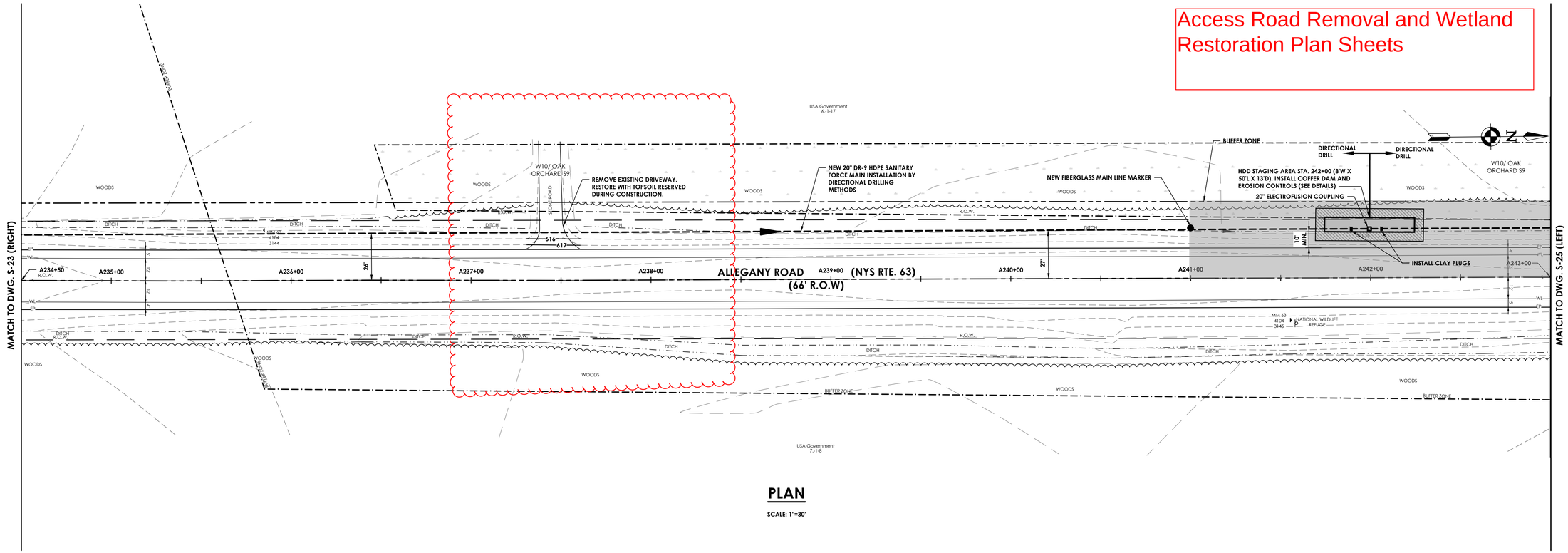
Plotted By: Andrew Kosa

Access Road Removal and Wetland Restoration Plan Sheets



PLAN

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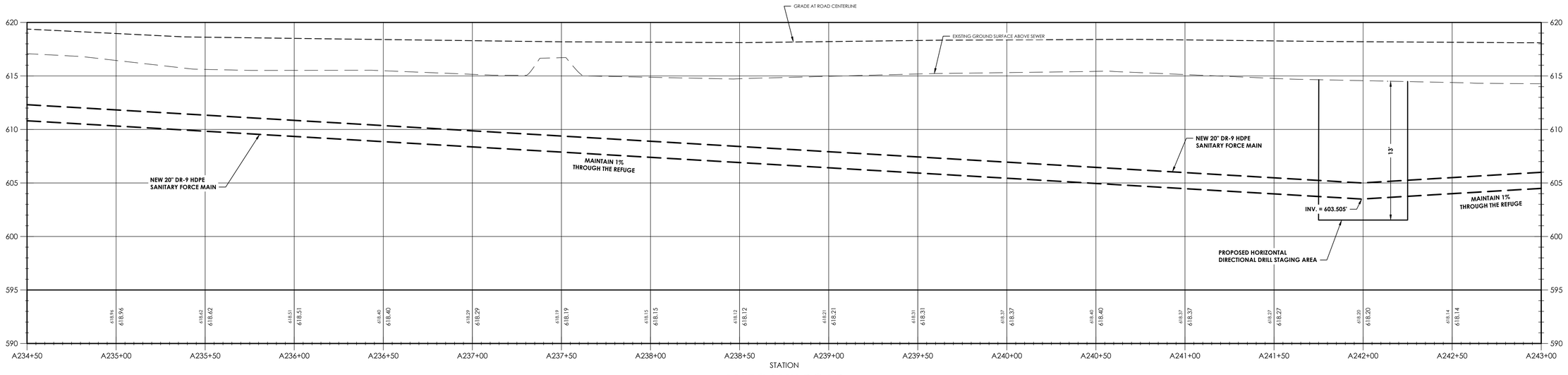

ALLEGANY ROAD
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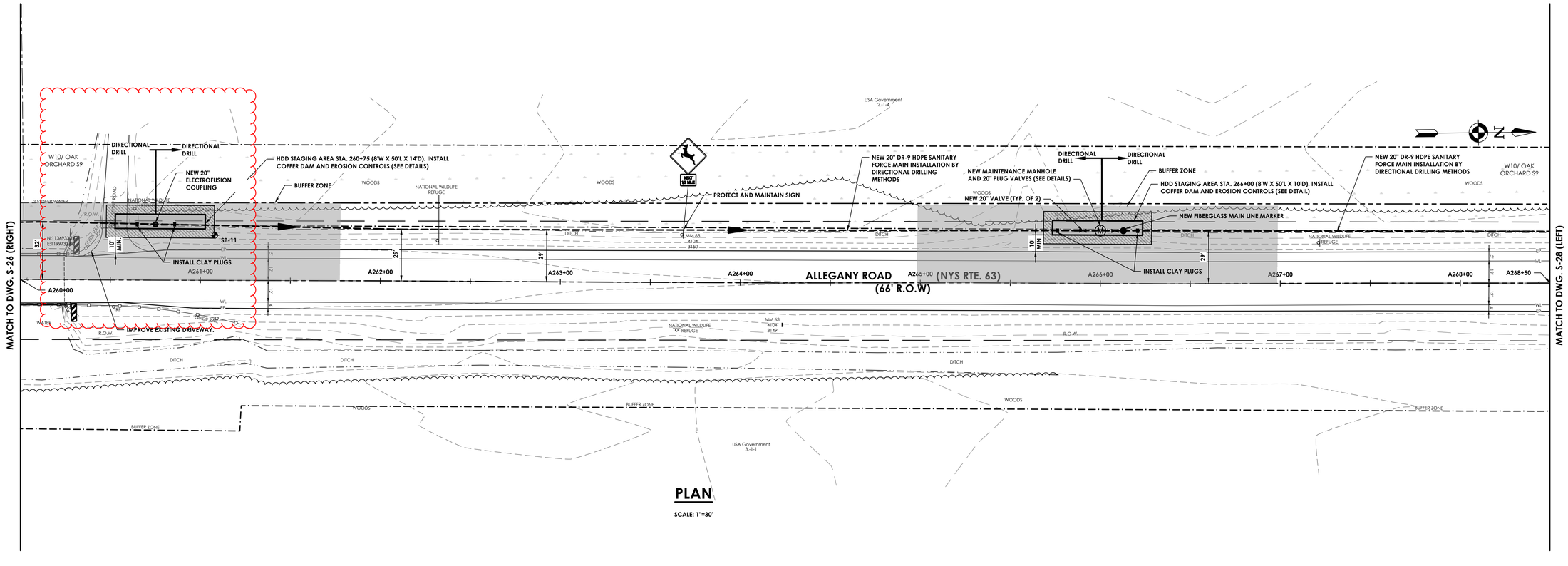

PLAN

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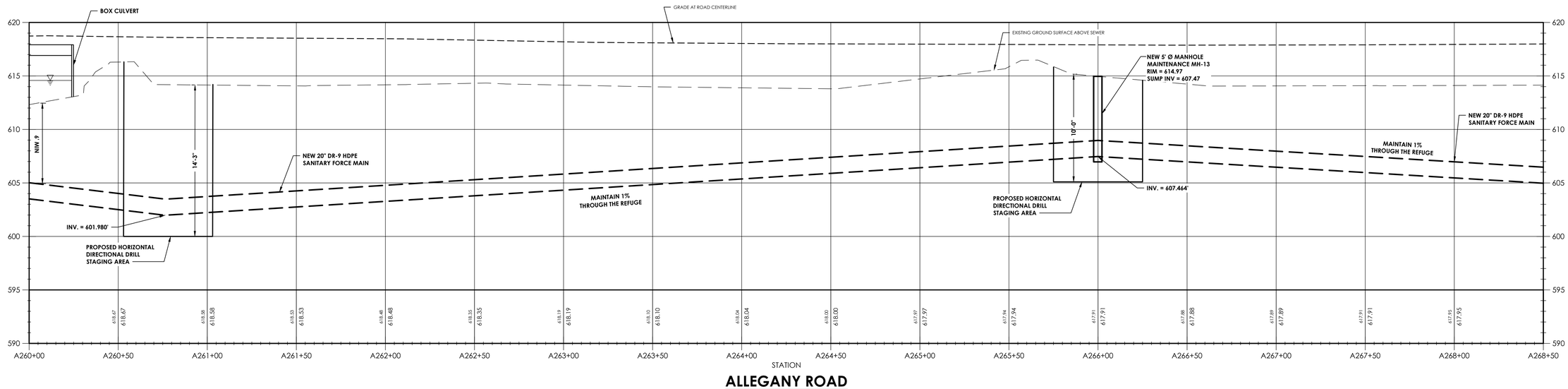

ALLEGANY ROAD
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SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

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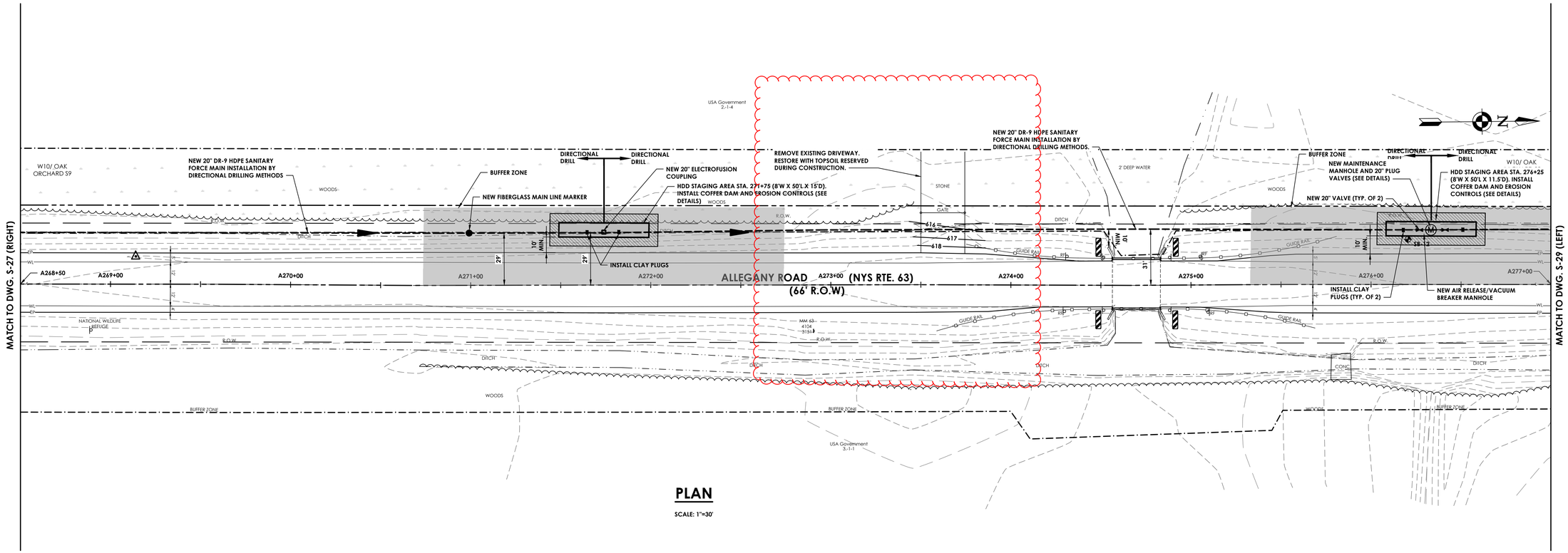

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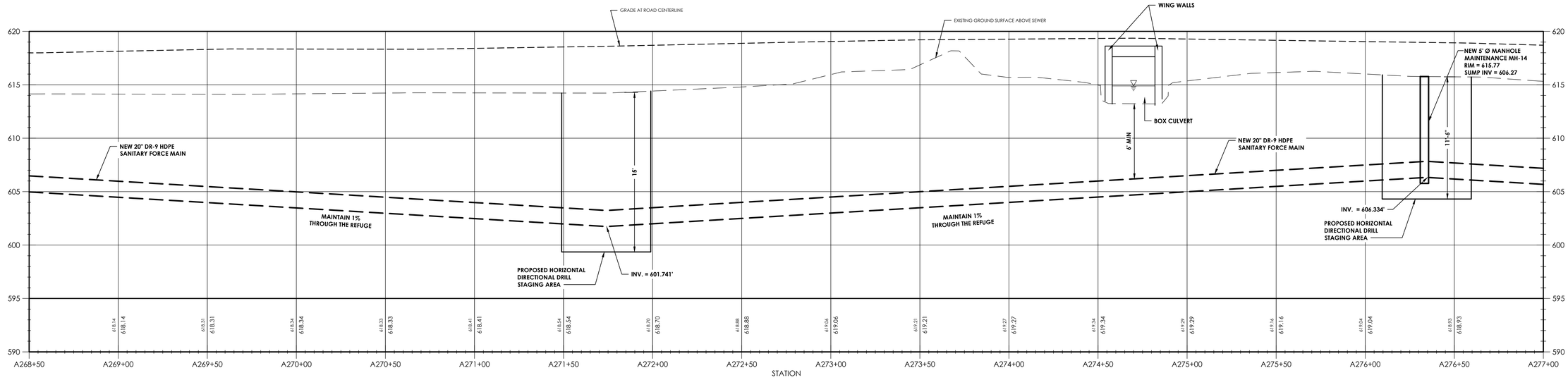

ALLEGANY ROAD
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NEW YORK

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SCALE AS NOTED

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PLAN AND PROFILE
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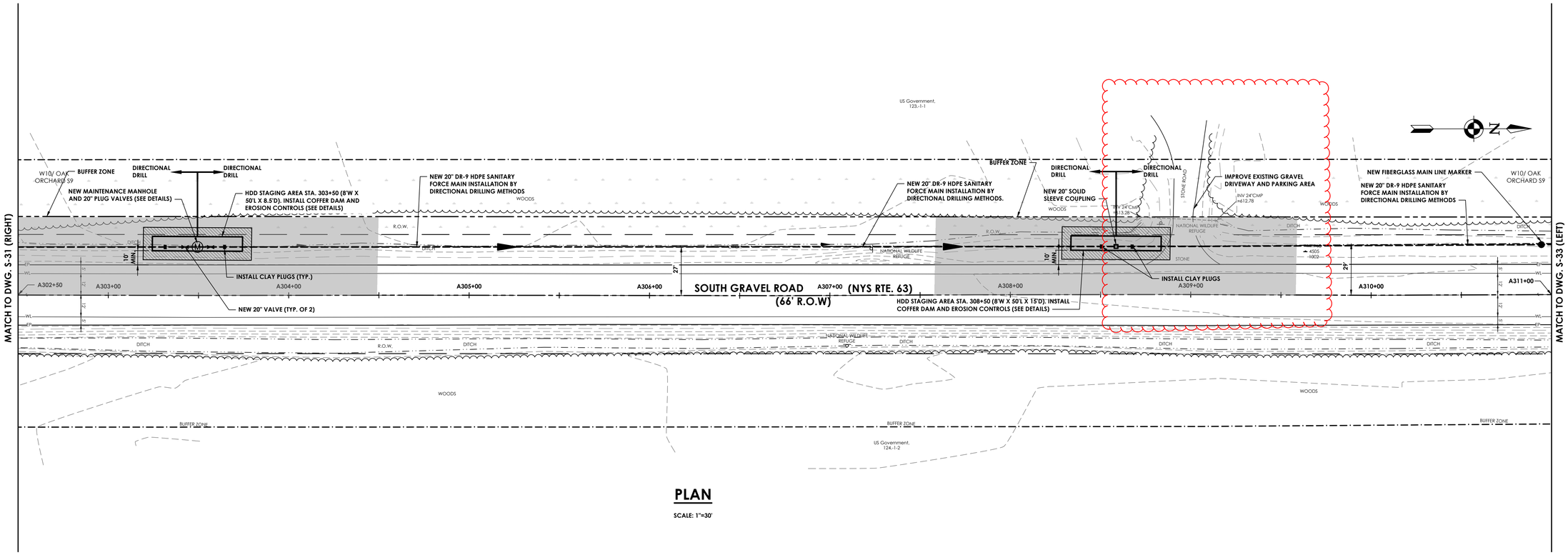
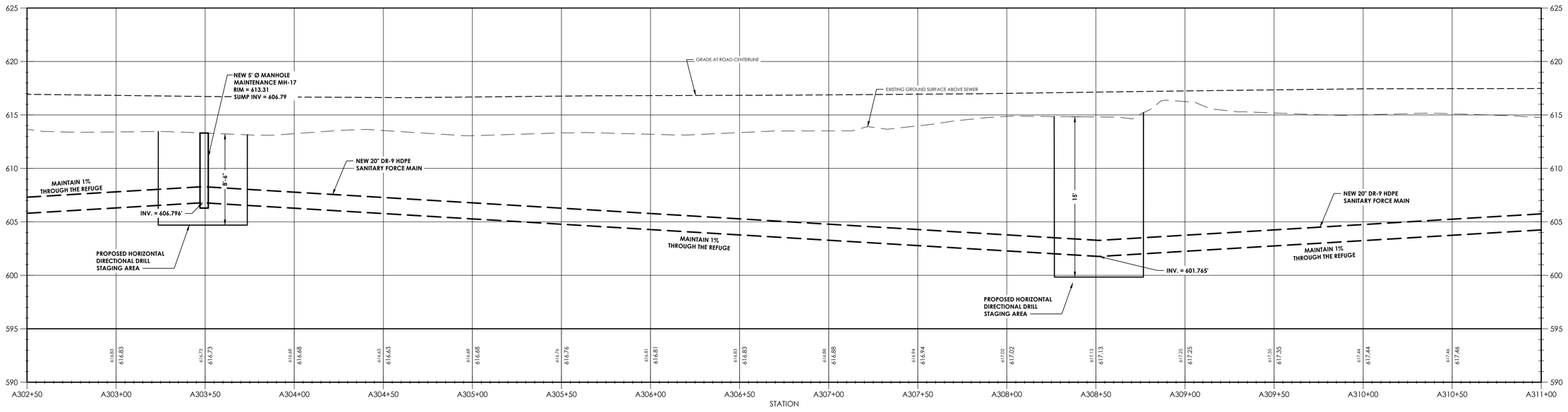


PLAN

SCALE: 1"=30'



ALLEGANY ROAD
STA. A302+50 TO STA. A311+00

SCALE: HORIZONTAL - 1"=30' VERTICAL - 1"=5'

CPLteam.com
ARCHITECTURE = ENGINEERING = PLANNING
205 ST. PAUL STREET,
SUITE 500
ROCHESTER, NEW
YORK 14604
TEL (800) 274-9000
FAX (585) 454-7618

REVISIONS

NO.	DATE	BY	CHKED	DESCRIPTION
0	4/13/20	ZLA	ARK	AGENCY SUBMISSION
1	10/21/20	ZLA	ARK	NYSDOT RESPONSE

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

STAMP OFFSITE SEWER

TOWN OF ALABAMA
GENESEE COUNTY
NEW YORK

DATE	DRAWN	CHECKED
04/06/20	ZLA	ARK

SCALE AS NOTED

SHEET TITLE
PLAN AND PROFILE
STA. A302+50
TO STA. A311+00

PROJECT NUMBER
14822.00

FM
S-32
DRAWING NUMBER

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY. IF ANYTHING BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

Appendix C - Crossings Detail Report, Frac Out Plan, Impact Table and Delineation Report

Creek Crossing

And

Freshwater Wetlands Permit

NYSDEC and
U.S. Army Corps of Engineers

for

Genesee County
Economic Development Center

STAMP Offsite Sewer

Dr. Bruce A Holm Upstate MedTech Center
99 MedTech Drive, Suite 106
Batavia, NY 14020

November 2020

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- Exhibit 03 Allegany Road (Sta. A207+40)
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- Directional Drilling Fluid Management Notes
- Clay Plug Detail
- Typical Ditch Restoration Detail
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- Stone Check Dam Detail
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STAMP Wastewater Wetland and Stream Impact Table

CC Environment & Planning

Contact List

NARRATIVE

This project in the Town of Alabama, Genesee County and Town of Shelby, Orleans County will involve the installation of approximately 47,000 linear feet of 18-inch, 20-inch and 24-inch diameter sanitary force main along portions of Crosby Road, Lewiston Road (NYS Route 77), Allegany Road (NYS Route 63) and South Gravel Road (NYS Route. 63), as shown on Figure 1. The majority of the site consists of lawn areas, woodlands, and fields. However, portions of the project route include stream crossings, wetland crossings, driveways, and road crossings. The total area of disturbance of the project site is 8.0 acres.

Soil type data from the United States Department of Agriculture Natural Resources Conservation Service is in Figure 2. The sanitary gravity and force mains will be installed near localized wetlands, Oak Orchard Creek and un-named tributaries to Oak Orchard Creek, and across un-named drainage ditches. These waters are susceptible to site run-off under existing conditions and will be susceptible to site run-off under construction activities.

This sewer main installation project will not result in any loss of waters of the United States; the work limit will not exceed 500 feet within any of these said waters. This installation does not require a section 10 permit or the construction of new access roads.

The sewer main installation route is in part on the STAMP Campus. The force main installation within the STAMP campus does not cross any regulated streams nor wetland areas.

Project construction is scheduled to begin in April 2021. The project timetable will be coordinated by the Genesee County Economic Development Center.

Portions of the installation include crossing NYS DEC Class C streams, NYS DEC protected wetlands, federally protected wetlands and localized wetlands. These areas of concern are described in detail below:

<u>Exhibit 1 - Lewiston Road Sta. L146+45</u>

This section of sewer main will be open cut and installed to the south of the existing culvert across an unnamed Class C stream. The field investigation delineates this stream as an intermittent stream with standing water. The unnamed class C stream tributary originates from south in an unnamed localized wetland and flows to the north, crosses Lewiston Road through an existing 24-inch HDPE culvert at approximately Sta. 145+45. The proposed sewer main will cross the localized wetland at approximately 32 feet south of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will include silt fencing and a temporary check dam.

Exhibit 02 - Allegany Road Sta. A182+80

This section of sewer main will be installed using directional drilling methods under an unnamed class C stream. Field investigation identified this stream as a relatively permanent flowing stream. The unnamed stream, which flows from west to east, crosses Allegany Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A182+80. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing Oak Orchard Creek Tributary. Dual HDD staging areas will be utilized will be used for this creek crossing. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 03 – Allegany Road Sta. A207+40

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from east to west through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A207+40. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 04 – Allegany Road Sta. A216+35

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from west to east through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A216+35. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 38 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 05 – Allegany Road Sta. A220+40

This section of sewer main will be open cut and installed to the west of the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A220+40 and discharges to an unnamed localized wetland. Field Investigation delineated this as an intermittent stream with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will utilize silt fencing and a temporary check dam.

Exhibit 06 – Allegany Road Sta. A223+00

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet under the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A223+00. Field investigation delineated the stream as Ephemeral. The proposed sewer main will cross the drainage way at approximately 25 feet west of the centerline of the road and will implement a 30-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, and a trench box. Erosion control measures will include a temporary cofferdam if installation is performed during wet weather conditions.

Exhibit 07 – Allegany Road Sta. A260+15

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PEM1KF and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete culvert with concrete wing walls at approximately Sta. A260+15. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Exhibit 08 – Allegany Road Sta. A274+70

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel that lets water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete bridge with concrete wing walls at approximately Sta. A274+70. The proposed sewer main will cross the creek at approximately 31 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details in mitigate the wetland disturbance.

Exhibit 09 – Allegany Road Sta. A278+60

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 16-foot concrete bridge with concrete wing walls at approximately Sta. A278+60. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Exhibit 10 – Allegany Road Sta. A289+45

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete box culvert with concrete wing walls at approximately Sta. A289+45. The proposed sewer main will cross the creek at approximately 30 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Exhibit 11 – South Gravel Road Sta. A319+00

This section of sewer main will be installed using directional drilling techniques under class C Stream and Federal Riverine Oak Orchard Creek and Federal Wetland PFO1E and the 100-foot buffer zone of State Wetland A-5. This creek flows from east to west and crosses South Gravel Road under an existing 110-foot concrete bridge at approximately Sta. A319+00. The proposed sewer main will cross the creek at approximately 44 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Exhibit 12 – South Gravel Road Sta. A332+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing culvert. The unnamed class C stream, flows into State Wetland A-5, flows from east to west, crosses South Gravel Road through an existing 24-inch CMP culvert at approximately Sta. A332+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Exhibit 13 – South Gravel Road (Sta. A341+50)

This section of sanitary sewer force main will be installed adjacent to a localized wetland, wetland W9, and through the 100-foot buffer zone of said wetland using directional drilling techniques. The proposed sewer main will run adjacent to the localized wetland at approximately 27 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 14 – South Gravel Road Sta. A347+80

This section of sewer force main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through three existing 24-inch CMP culverts at approximately Sta. A347+80 and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance. Project construction is scheduled to begin in August 2016.

Exhibit 15 – South Gravel Road Sta. A363+00

This section of sanitary sewer force main will be installed adjacent to a localized wetland, wetland W8b, and through the 100-foot buffer zone of said wetland using directional drilling techniques. The proposed sewer main will run adjacent to the localized wetland at approximately 27 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 16 – South Gravel Road Sta. A365+00

This section of sanitary sewer force main will be installed adjacent to a localized wetland, wetland W8c, and through the 100-foot buffer zone of said wetland using directional drilling techniques. The proposed sewer main will run adjacent to the localized wetland at approximately 30 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 17 – South Gravel Road Sta. A367+60

This section of sewer main will installed using directional drilling techniques a minimum of 6 feet below the existing 30-inch CMP culverts at approximately Sta. A367+60. The class C stream, which generally flows from east to west, crosses South Gravel Road through the existing culverts and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance. Project construction is scheduled to begin in August 2016.

Exhibit 18 – South Gravel Road Sta. A403+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through an existing 36-inch CMP culvert at approximately Sta. A403+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road and will implement a 24-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box, and a horizontal drilling machine Erosion control measures will include a temporary check dam, silt fencing and a temporary coffer dam if installation is performed during actively flowing conditions.

Exhibit 19 – South Gravel Road Sta. A427+50

This section of sewer main will be installed using directional drilling techniques under Federal Riverine and class C stream Oak Orchard Creek. This creek flows from west to east and crosses South Gravel Road under an existing 75-foot concrete bridge at approximately Sta. A427+50. The proposed sewer main will cross the creek at approximately 53 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Exhibit 20 – South Gravel Road Sta. A430+95

This section of sewer main will be installed by directional drilling methods to the west of the existing culvert. Field investigation delineated this stream as an intermittent stream with standing water. The unnamed intermittent stream, which flows from west to east, crosses South Gravel Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A430+95. The proposed sewer main will cross the intermittent stream at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

Exhibit 21 – South Gravel Road Sta. A504+05

This section of sewer main will be installed using directional drilling techniques under an unnamed class C stream. This stream flows from southwest to northeast and crosses South Gravel Road under an existing 6-foot by 10-foot concrete box culvert at approximately Sta. A504+05. The proposed sewer main will cross the stream approximately 42 feet southwest of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the unnamed class C stream. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

Project construction is scheduled to begin in August 2016. The project timetable will be coordinated by the Genesee County Economic Development Center.

Exhibit 22 – South Gravel Road Sta. A546+60

This section of sanitary sewer force main will be installed adjacent to a localized wetland, wetland S17, using open cut techniques.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

Wetland Protection

The proposed sewer main has been located to avoid wetland areas as much as possible.

Where the sewer main is to be installed within the limits of the wetlands, the following procedures shall be followed:

- All excavated material shall be immediately backfilled upon installation of the sewer main.

- In-situ soils shall be used for backfill. If select granular fill is required to provide adequate bedding, the minimum amount of select fill required will be applied to avoid a French drain effect.

- Clay plugs will be placed within the trenches at the extents of the wet area to prevent draining the waters of these areas.

Restoration within Wetland Areas

Backfilling of the excavation will maintain the original strata of the in situ soil and the top 6 to 12 inches will consist of original topsoil from the trench.

The final grading will maintain original contours and slopes.

Exposed slopes will be stabilized immediately upon completion of utility installation. Vegetation in the disturbed area will be allowed to grow back to its natural state.

The site will be revisited approximately one year after substantial completion to inspect the growth of the vegetation in the disturbed areas. If there are any areas where the growth of vegetation is covering less than 90 percent of the disturbed area, a wetland seed mix will be applied.

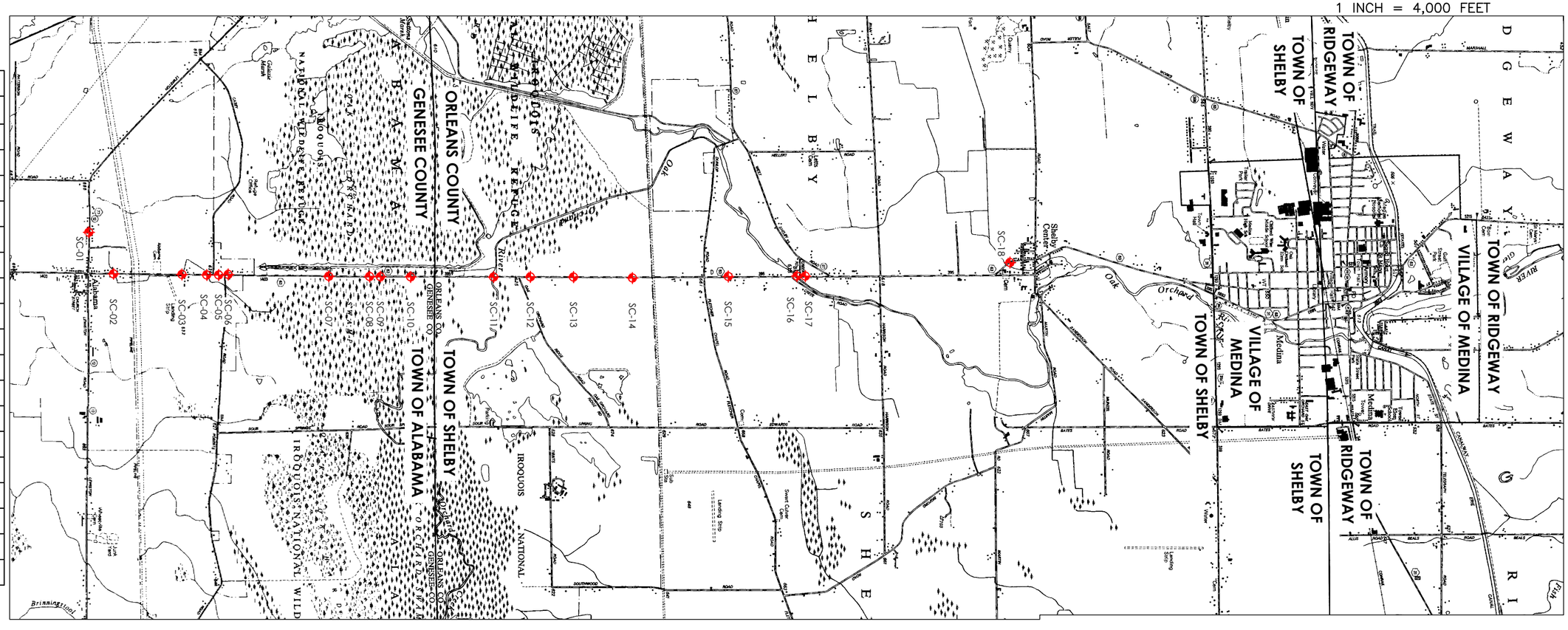
Wetland seed mix from Southern Tier Consulting Inc. (or similar supplier to be approved by the Engineer), shall be applied to the wetland area at a rate of 15 pounds per acre. The seed mix shall be Northeast Wetland Grass Seed Mix (STCMX-7) or equivalent:

Common Name	Scientific Name	Percentage
Creeping Bentgrass	Agrostis stolonifera	63%
Rough Bluegrass	Poa trivialis	17%
Meadow Foxtail	Alopecurus arundinaceous	11%
Annual Ryegrass	Lolium multiflorum	4.5%
Deertongue	Panicum clandestinum	4.5%

FIGURE 1

PROJECT LOCATION MAP

STREAM CROSSINGS		
POINT #	NORTHING	EASTING
SC-01	1128319.2684	1198165.76971
SC-02	1129203.3341	1199652.7032
SC-03	1131657.7648	1199676.4904
SC-04	1132549.5022	1199693.1045
SC-05	1132975.0419	1199695.2571
SC-06	1133317.1693	1199678.3689
SC-07	1136927.8256	1199743.2490
SC-08	1138391.0277	1199752.4143
SC-09	1138777.7871	1199753.0522
SC-10	1139862.5613	1199765.8692
SC-11	1142836.6324	1199767.5060
SC-12	1144160.2963	1199762.8993
SC-13	1145703.8408	1199766.8414
SC-14	1147816.9683	1199806.2083
SC-15	1151254.2041	1199749.9365
SC-16	1153716.1012	1199738.8980
SC-17	1154016.0659	1199737.5327
SC-18	1161361.3847	1199247.2740



REVISIONS				
NO.	DATE	BY	CHKED	DESCRIPTION

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FAX (585) 232-5836
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ARCHITECTURE | ENGINEERING | PLANNING

GENESEE COUNTY ECONOMIC DEVELOPMENT CENTER

VILLAGE OF MEDINA ORLEANS COUNTY NEW YORK

DATE:	10/4/16
DRAWN:	ZLA
DESIGNED:	ZLA
CHECKED:	ARK
SCALE:	AS NOTED

STAMP OFFSITE SEWER

LOCATION MAP

PROJECT NUMBER 14822.00

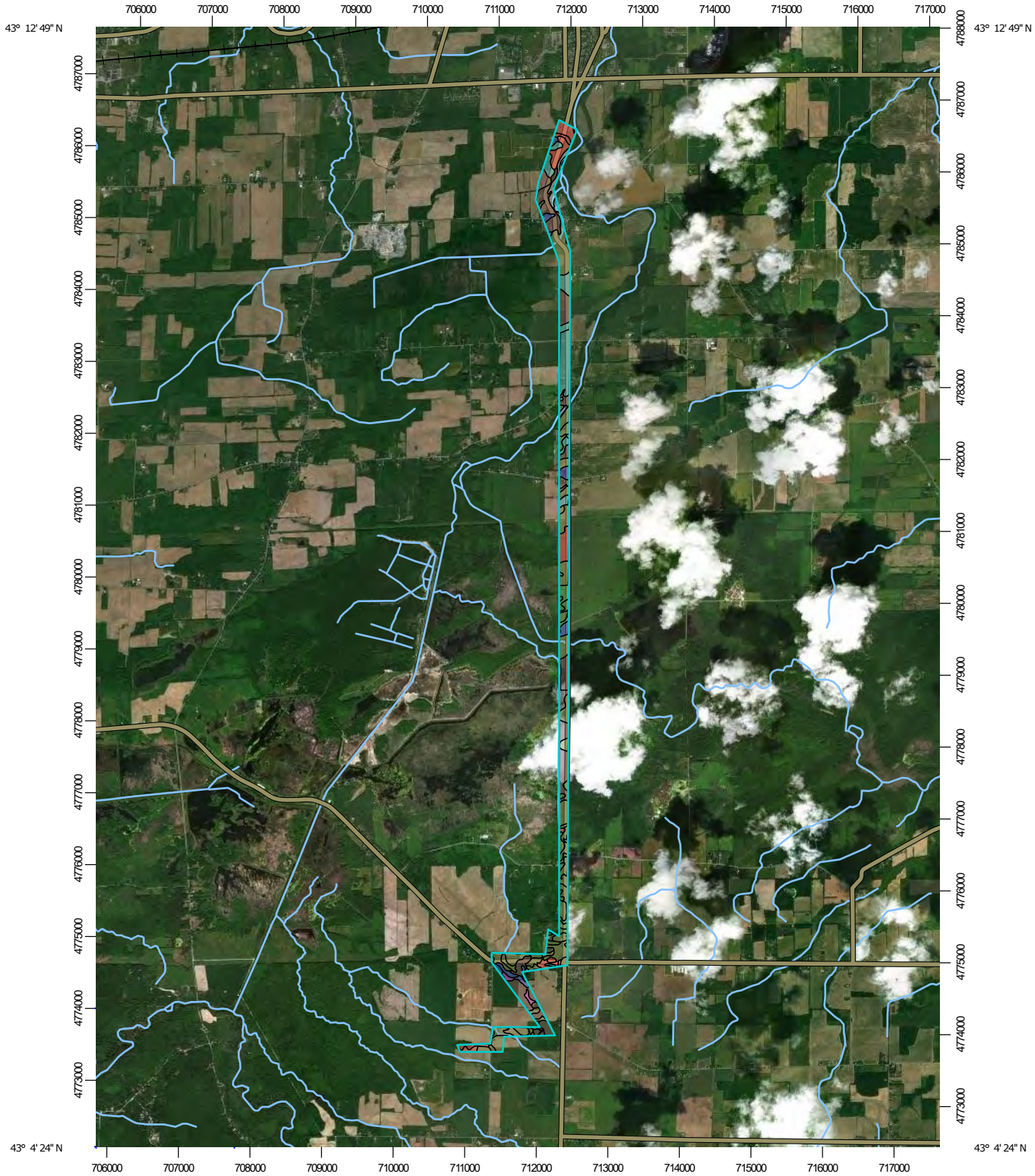
DRAWING NUMBER FIG.-01

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Location Map stream crossings11X17.dwg
Date last accessed: 3/26/2020 8:34 AM
Date last plotted: 3/26/2020 8:35 AM
Plotted By: Zach Anderson

FIGURE 2

SOIL CLASSIFICATIONS

Hydrologic Soil Group—Genesee County, New York, and Orleans County, New York
(STAMP Force Main WSS)



Map Scale: 1:75,900 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 1000 2000 4000 6000

Feet
0 3500 7000 14000 21000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 scales ranging from 1:15,800 to 1:24,000.

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: Genesee County, New York
Survey Area Data: Version 21, Jun 11, 2020

Soil Survey Area: Orleans County, New York
Survey Area Data: Version 17, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

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

Date(s) aerial images were photographed: Dec 31, 2009—Oct 18, 2016

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
ApA	Appleton silt loam, 0 to 3 percent slopes	B/D	2.2	0.4%
CaA	Canandaigua silt loam, 0 to 2 percent slopes	C/D	39.7	6.6%
CbA	Canandiagua mucky silt loam, 0 to 2 percent slopes	C/D	23.5	3.9%
ClB	Collamer silt loam, 2 to 6 percent slopes	C/D	48.4	8.0%
DuB	Dunkirk silt loam, 2 to 6 percent slopes	C	1.6	0.3%
ElB	Elnora loamy fine sand, 2 to 6 percent slopes	A/D	1.7	0.3%
HaA	Halsey silt loam, 0 to 4 percent slopes	B/D	1.8	0.3%
HlA	Hilton loam, 0 to 3 percent slopes	B/D	6.6	1.1%
HlB	Hilton loam, 3 to 8 percent slopes	B/D	6.6	1.1%
La	Lakemont silty clay loam, 0 to 3 percent slopes	D	9.2	1.5%
LmB	Lima silt loam, 3 to 8 percent slopes	B/D	27.4	4.5%
LoA	Lyons soils, 0 to 3 percent slopes	C/D	3.0	0.5%
NgA	Niagara silt loam, 0 to 2 percent slopes	C/D	28.6	4.7%
OdA	Odessa silt loam, 0 to 3 percent slopes	D	1.2	0.2%
OdB	Odessa silt loam, 3 to 8 percent slopes	D	7.1	1.2%
OnB	Ontario loam, 3 to 8 percent slopes	B	6.0	1.0%
OnC	Ontario loam, 8 to 15 percent slopes	B	5.5	0.9%
OvA	Ovid silt loam, 0 to 3 percent slopes	C/D	6.1	1.0%
OvB	Ovid silt loam, 3 to 8 percent slopes	C/D	6.5	1.1%
Pd	Palms muck	B/D	33.6	5.5%
PhB	Palmyra gravelly loam, 3 to 8 percent slopes	A	5.3	0.9%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SmB	Scio silt loam, 2 to 8 percent slopes	B/D	3.5	0.6%
W	Water		0.4	0.1%
Subtotals for Soil Survey Area			**275.6**	**45.6%**
Totals for Area of Interest			**605.1**	**100.0%**

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AnA	Appleton silt loam, 0 to 3 percent slopes	B/D	1.0	0.2%
BoB	Bombay fine sandy loam, 3 to 8 percent slopes	C/D	4.8	0.8%
BrB	Brockport silty clay loam, 2 to 6 percent slopes	D	24.1	4.0%
BrC	Brockport silty clay loam, 6 to 12 percent slopes	D	3.2	0.5%
Ca	Canandaigua soils	C/D	13.3	2.2%
CeB	Cazenovia silt loam, 3 to 8 percent slopes	C	8.2	1.4%
CfB	Cazenovia gravelly silt loam, shale substratum, 3 to 8 percent slopes	C	10.9	1.8%
Cg	Cheektowaga fine sandy loam	C/D	10.5	1.7%
ChA	Churchville silt loam, 0 to 2 percent slopes	C/D	10.2	1.7%
ClB	Claverack loamy fine sand, 0 to 6 percent slopes	C/D	1.6	0.3%
Cs	Cosad loamy fine sand	C/D	0.6	0.1%
ElB	Elnora loamy fine sand, 0 to 6 percent slopes	A/D	10.3	1.7%
FaB	Farmington silt loam, 0 to 8 percent slopes	D	0.0	0.0%
HbB	Hilton loam, 3 to 8 percent slopes	B/D	8.4	1.4%
HcA	Hilton loam, 0 to 3 percent slopes, bedrock substratum	B/D	24.5	4.1%
HcB	Hilton loam, 3 to 8 percent slopes, bedrock substratum	B/D	28.1	4.6%
Ju	Junius loamy fine sand	A/D	3.9	0.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
KaA	Kendaia and Appleton soils, 0 to 3 percent slopes, bedrock substratum	B/D	4.9	0.8%
Lz	Lyons soils, 0 to 3 percent slopes, bedrock substratum	C/D	1.1	0.2%
MdB	Madrid fine sandy loam, 3 to 8 percent slopes	B	9.0	1.5%
Mo	Minoa very fine sandy loam	B/D	0.0	0.0%
Ne	Newstead silt loam	C/D	29.8	4.9%
NgA	Niagara silt loam, 0 to 2 percent slopes	C/D	8.1	1.3%
OdA	Odessa silt loam, 0 to 3 percent slopes	D	15.0	2.5%
OnC	Ontario loam, 8 to 15 percent slopes	B	5.3	0.9%
OtB	Ontario loam, 0 to 8 percent slopes, bedrock substratum	B	1.8	0.3%
OvA	Ovid silt loam, 0 to 3 percent slopes	C/D	5.3	0.9%
OvB	Ovid silt loam, 3 to 8 percent slopes	C/D	6.5	1.1%
Pm	Palms muck	B/D	13.1	2.2%
ShE	Shale outcrop, steep		10.6	1.8%
UD	Udifluvents, frequently flooded	A	0.6	0.1%
W	Water		4.3	0.7%
WsA	Wassaic silt loam, 0 to 3 percent slopes	C	35.0	5.8%
WsB	Wassaic silt loam, 3 to 8 percent slopes	C	13.3	2.2%
Wy	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	B/D	2.1	0.3%
Subtotals for Soil Survey Area			**329.5**	**54.4%**
Totals for Area of Interest			**605.1**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

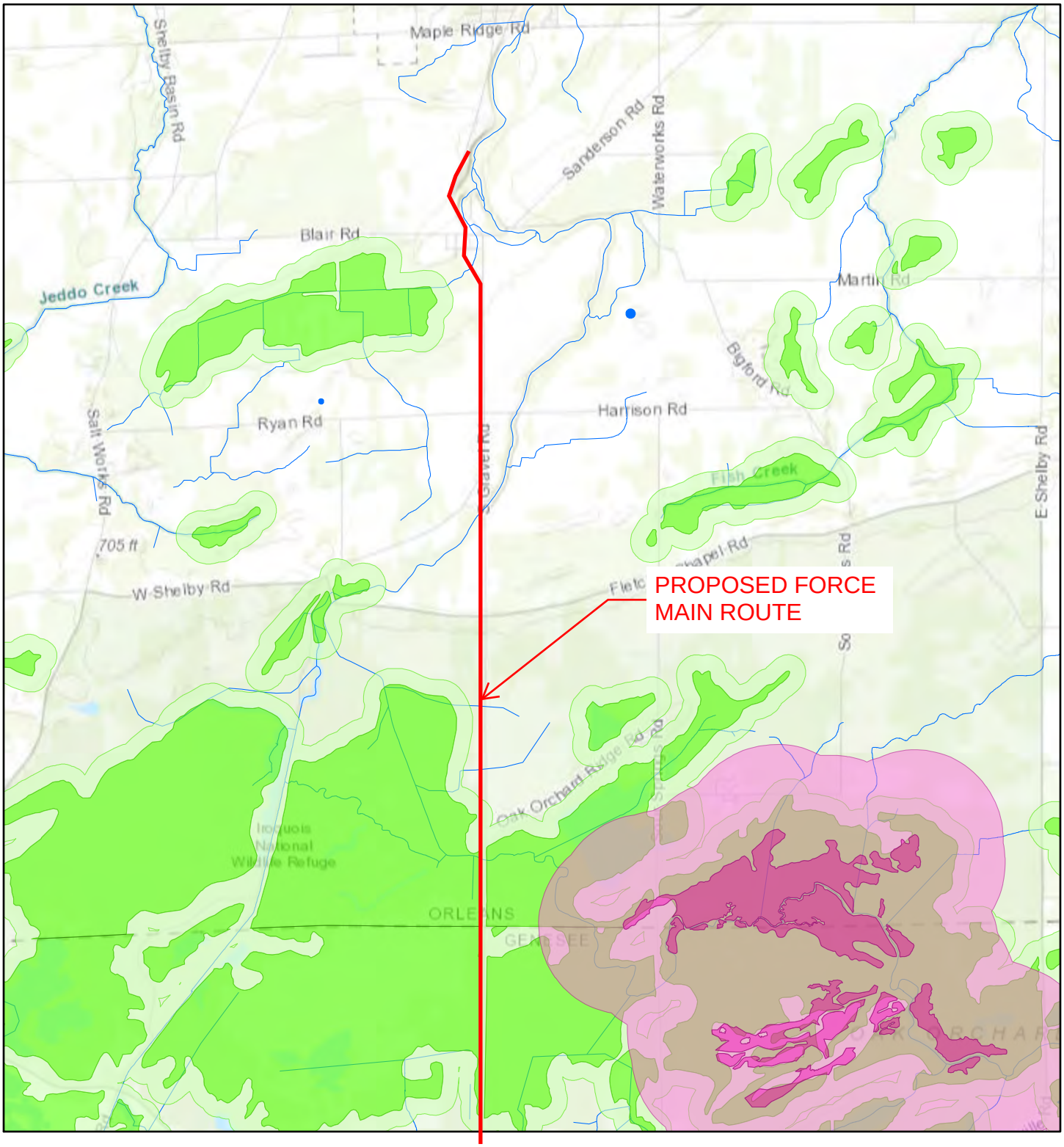
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

FIGURE 3

STATE AND FEDERAL WETLAND MAPS

STAMP Force Main



March 26, 2020

1:72,224

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0 0.5 1 2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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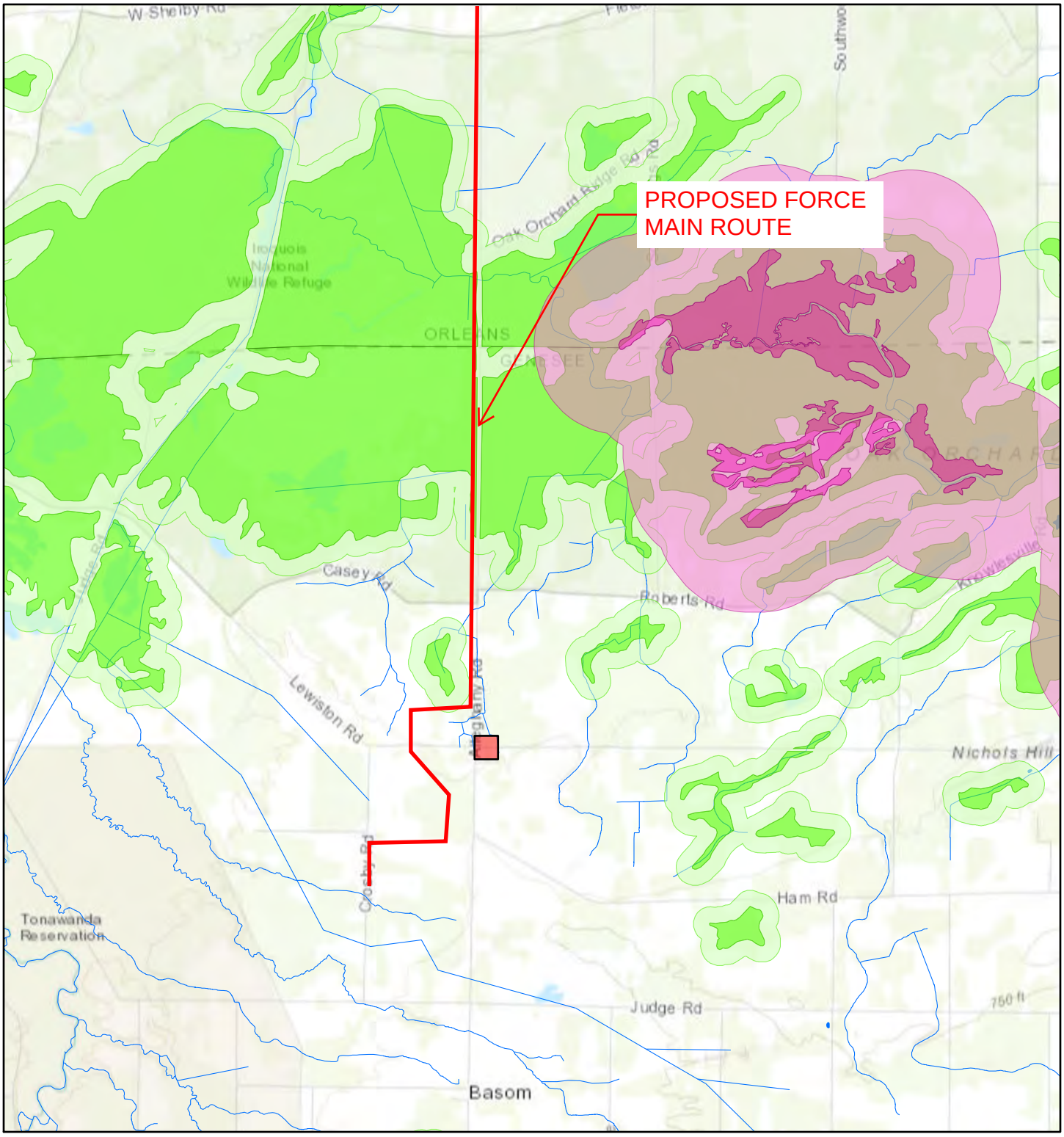
STAMP Force Main



March 26, 2020

1:72,224

0 0.45 0.9 1.8 mi

0 0.5 1 2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

NYS Department of Environmental Conservation
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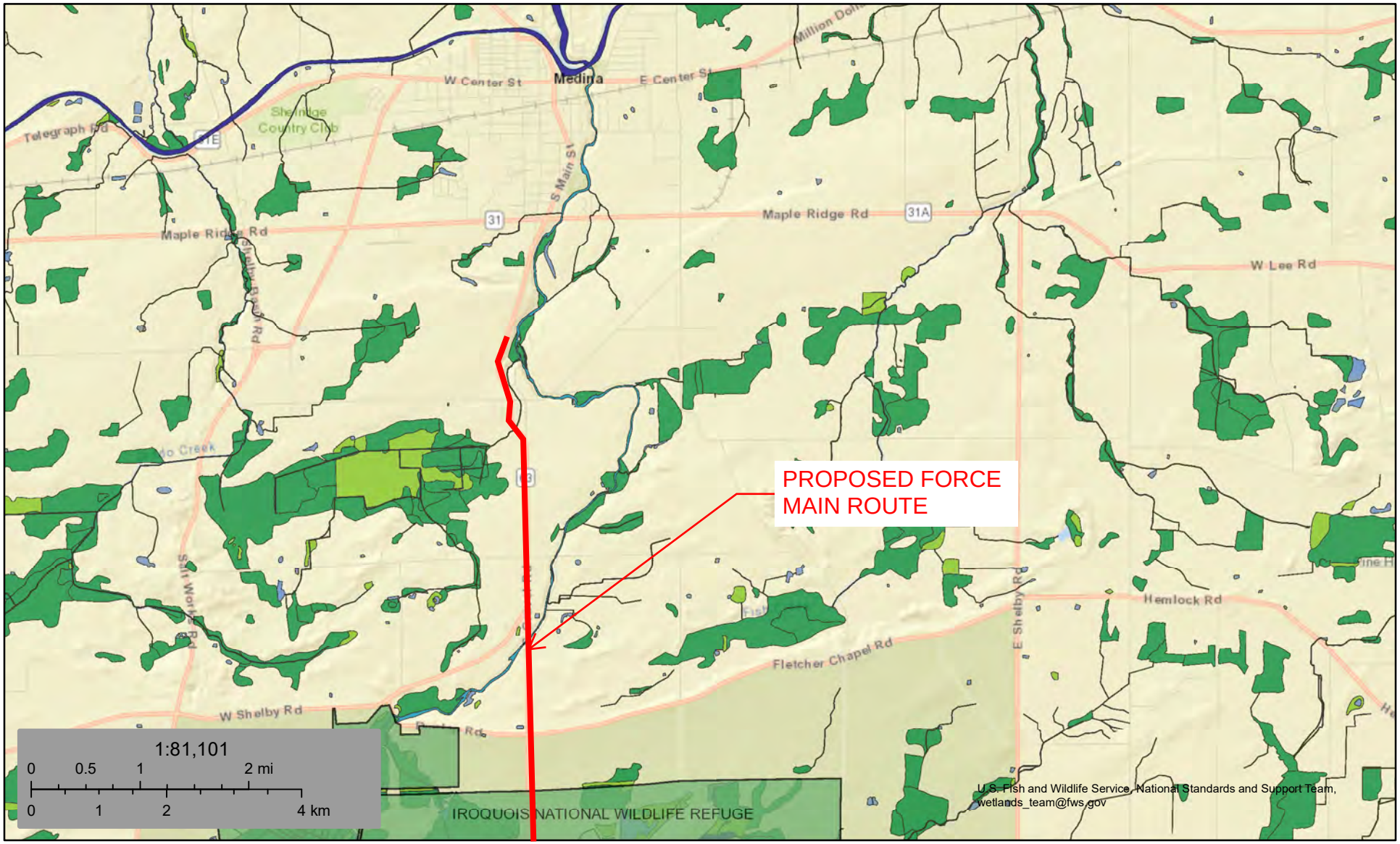
U.S. Fish and Wildlife Service

National Wetlands Inventory

STAMP Force Main North



March 25, 2020

Wetlands

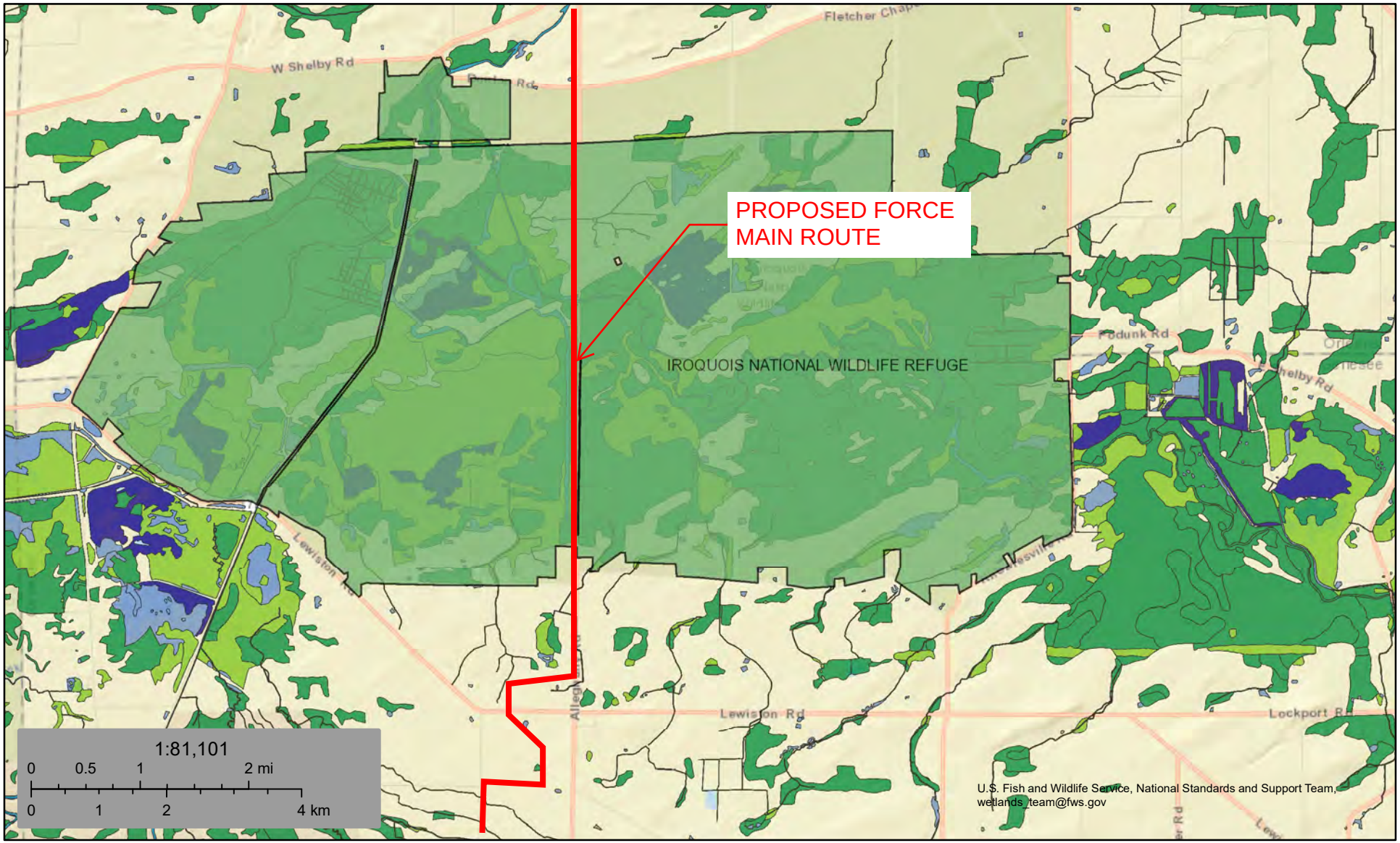
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

U.S. Fish and Wildlife Service

National Wetlands Inventory

STAMP Force Main



March 25, 2020

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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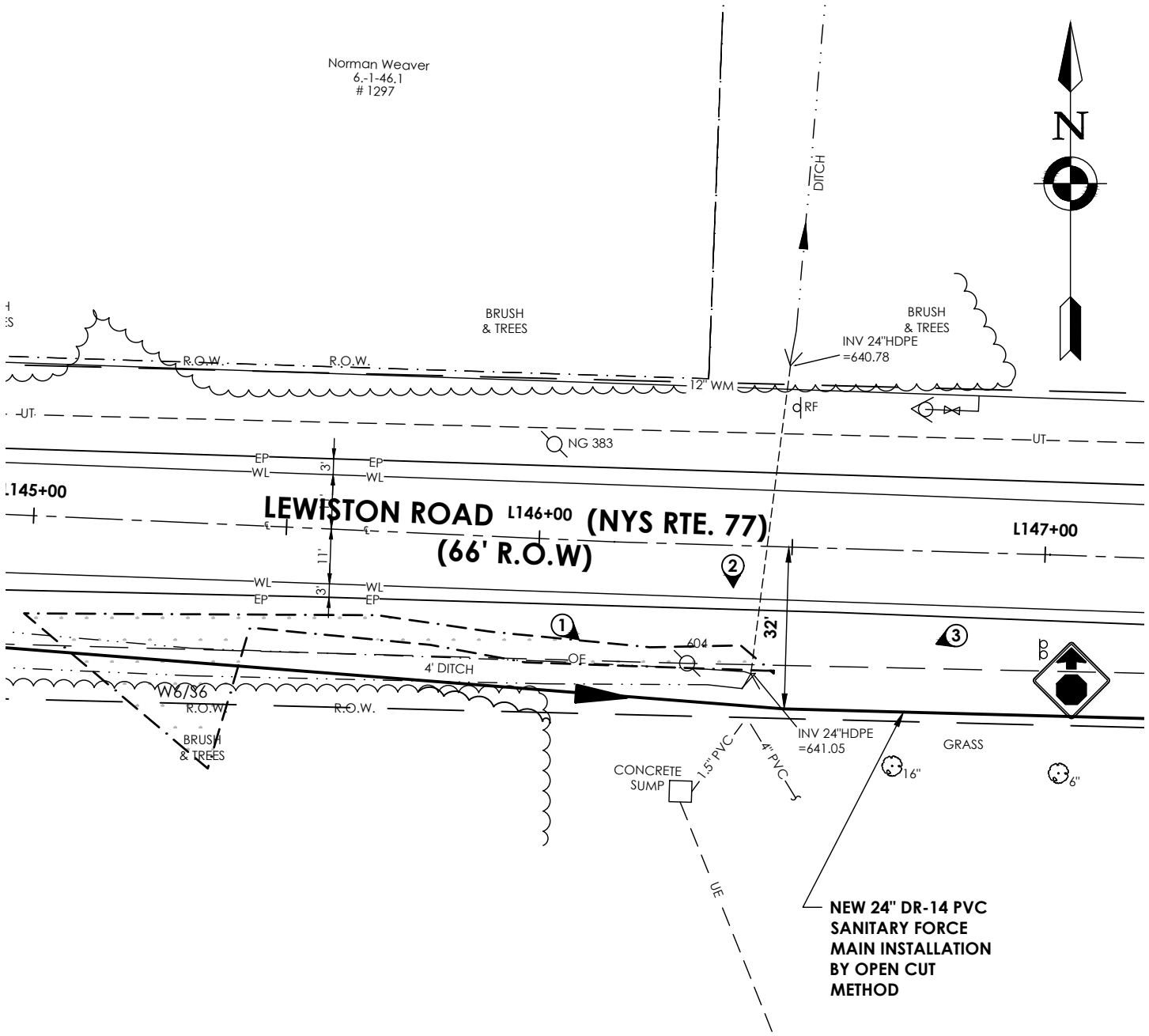
National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

EXHIBIT 1

LEWISTON ROAD (STA. L146+45)



LEGEND

LOCATION AND DIRECTION OF:

- ◀1 PHOTO 1
- ◀2 PHOTO 2
- ◀3 PHOTO 3

NOTES:

1) **ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.**

2) **VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.**

FIGURE 01

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
ARCHITECTURE ■ ENGINEERING ■ PLANNING

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 1 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:09 PM
Plotted By: Nicole Cullen

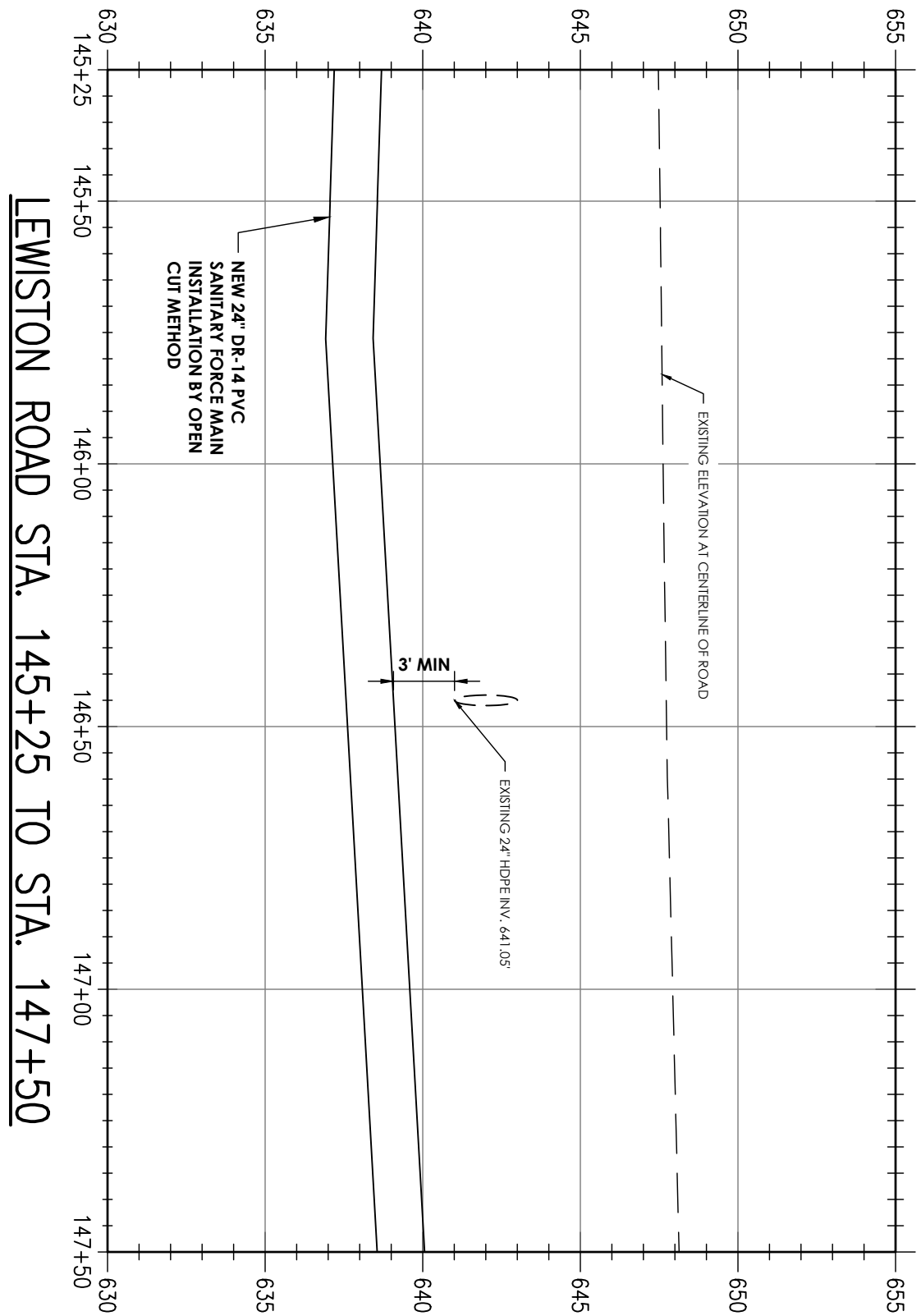


FIGURE 01

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STREAM CROSSING NO. 1 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:09 PM
Plotted By: Nicole Cullen

EXHIBIT 1- PHOTO 1

Lewiston Road Sta. L146+45

This section of sewer main will be open cut and installed to the south of the existing culvert across an unnamed Class C stream. The field investigation delineates this stream as an intermittent stream with standing water. The unnamed class C stream tributary originates from south in an unnamed localized wetland and flows to the north, crosses Lewiston Road through an existing 24-inch HDPE culvert at approximately Sta. 145+45. The proposed sewer main will cross the localized wetland at approximately 32 feet south of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will include silt fencing and a temporary check dam.

EXHIBIT 1- PHOTO 2

Lewiston Road Sta. L146+45

This section of sewer main will be open cut and installed to the south of the existing culvert across an unnamed Class C stream. The field investigation delineates this stream as an intermittent stream with standing water. The unnamed class C stream tributary originates from south in an unnamed localized wetland and flows to the north, crosses Lewiston Road through an existing 24-inch HDPE culvert at approximately Sta. 145+45. The proposed sewer main will cross the localized wetland at approximately 32 feet south of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will include silt fencing and a temporary check dam.

EXHIBIT 1- PHOTO 3

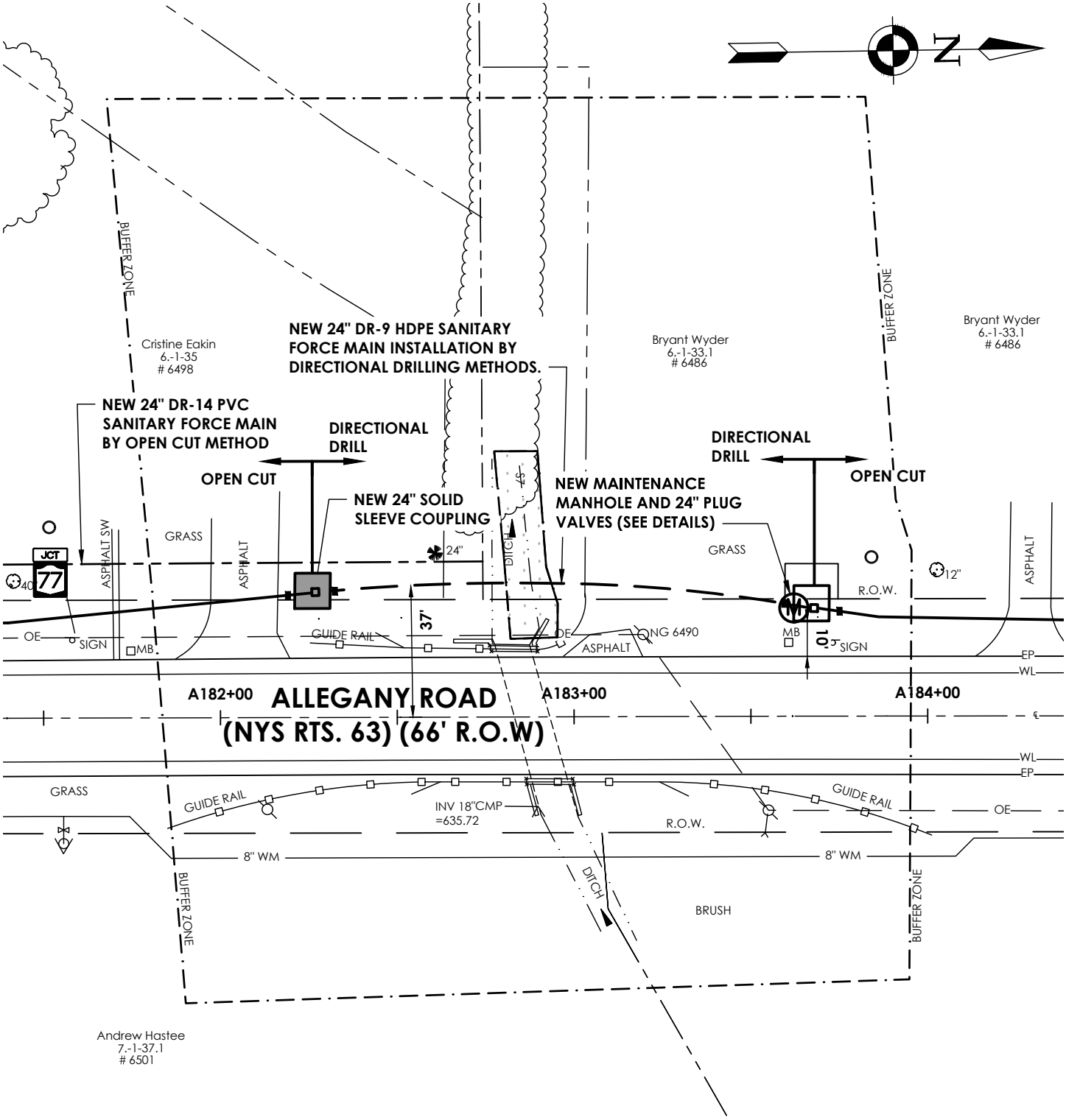
Lewiston Road Sta. L146+45

This section of sewer main will be open cut and installed to the south of the existing culvert across an unnamed Class C stream. The field investigation delineates this stream as an intermittent stream with standing water. The unnamed class C stream tributary originates from south in an unnamed localized wetland and flows to the north, crosses Lewiston Road through an existing 24-inch HDPE culvert at approximately Sta. 145+45. The proposed sewer main will cross the localized wetland at approximately 32 feet south of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will include silt fencing and a temporary check dam.

EXHIBIT 2

ALLEGANY ROAD (STA. A182+80)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 02

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FAX (585) 232-5836
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DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 40'
PROJ. #:	14822.00

STREAM CROSSING NO. 2 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
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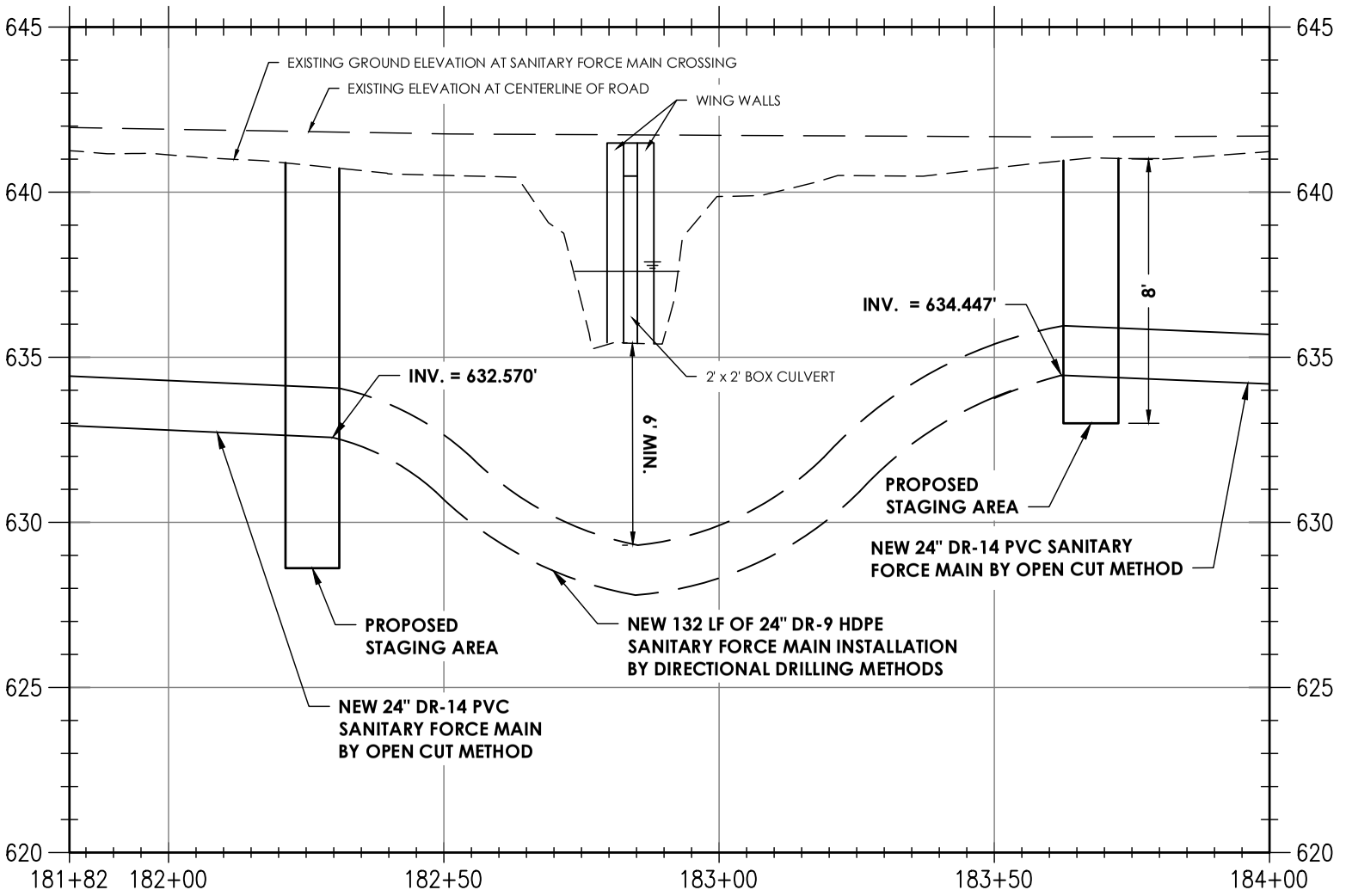
Date last plotted: 10/29/2020 12:11 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 181+82 TO STA. 184+00

H. SCALE: 1" = 30'
V: SCALE: 1" = 5'

FIGURE 02

STREAM CROSSING NO. 2 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:12 PM
Plotted By: Nicole Cullen

EXHIBIT 02- PHOTO 1

Allegany Road Sta. A182+80

This section of sewer main will be installed using directional drilling methods under an unnamed class C stream. Field investigation identified this stream as a relatively permanent flowing stream. The unnamed stream, which flows from west to east, crosses Allegany Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A182+80. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing Oak Orchard Creek Tributary. Dual HDD staging areas will be utilized will be used for this creek crossing. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 02- PHOTO 2

Allegany Road Sta. A182+80

This section of sewer main will be installed using directional drilling methods under an unnamed class C stream. Field investigation identified this stream as a relatively permanent flowing stream. The unnamed stream, which flows from west to east, crosses Allegany Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A182+80. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing Oak Orchard Creek Tributary. Dual HDD staging areas will be utilized will be used for this creek crossing. Any permanent structures damaged during construction shall be repaired or replaced in kind.

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EXHIBIT 02- PHOTO 3

Allegany Road Sta. A182+80

This section of sewer main will be installed using directional drilling methods under an unnamed class C stream. Field investigation identified this stream as a relatively permanent flowing stream. The unnamed stream, which flows from west to east, crosses Allegany Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A182+80. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing Oak Orchard Creek Tributary. Dual HDD staging areas will be utilized will be used for this creek crossing. Any permanent structures damaged during construction shall be repaired or replaced in kind.

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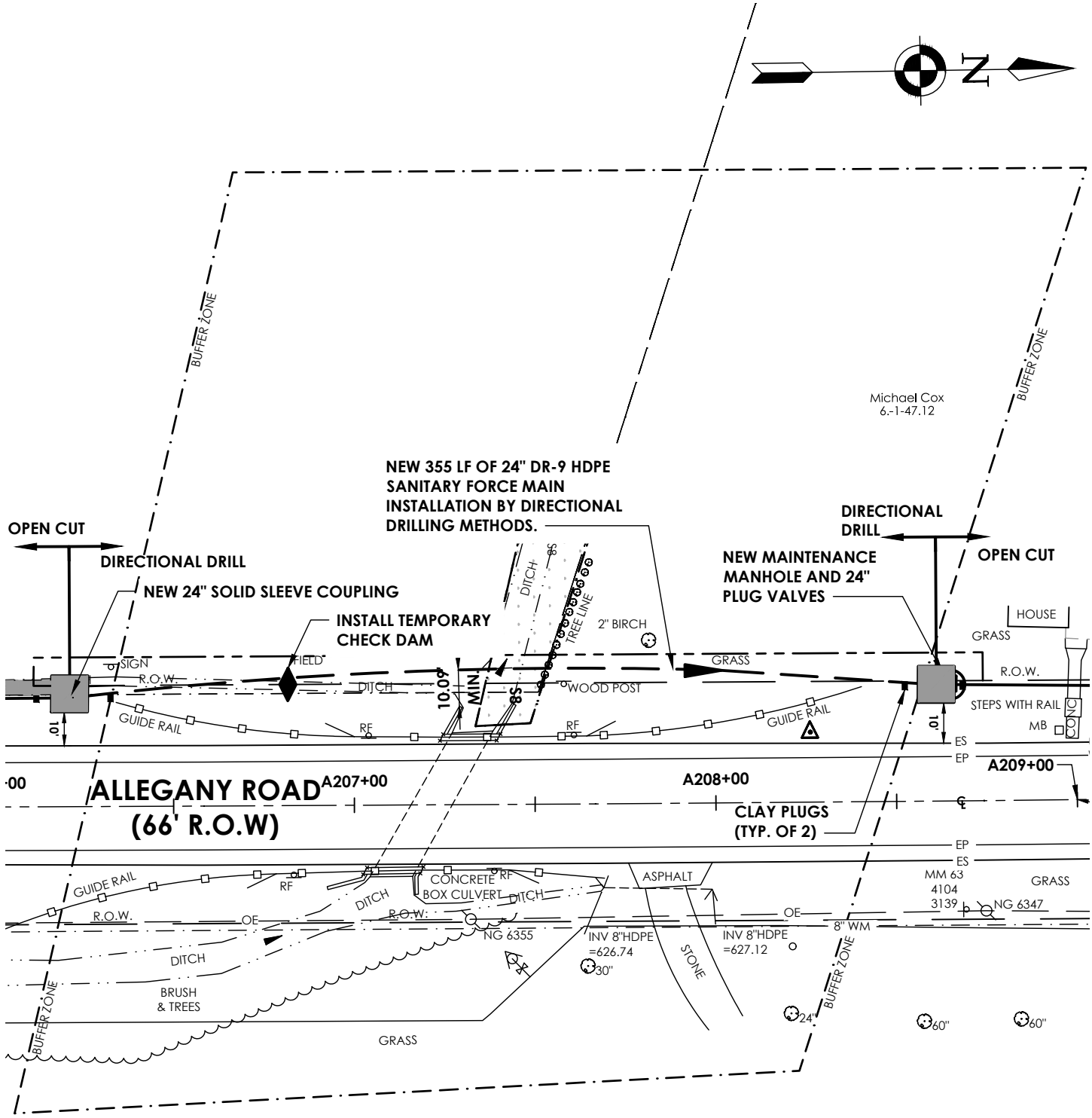
EXHIBIT 3

ALLEGANY ROAD ROAD (STA. A207+40)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 03

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
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DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 40'
PROJ. #:	14822.00

STREAM CROSSING NO. 3 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
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Plotted By: Nicole Cullen

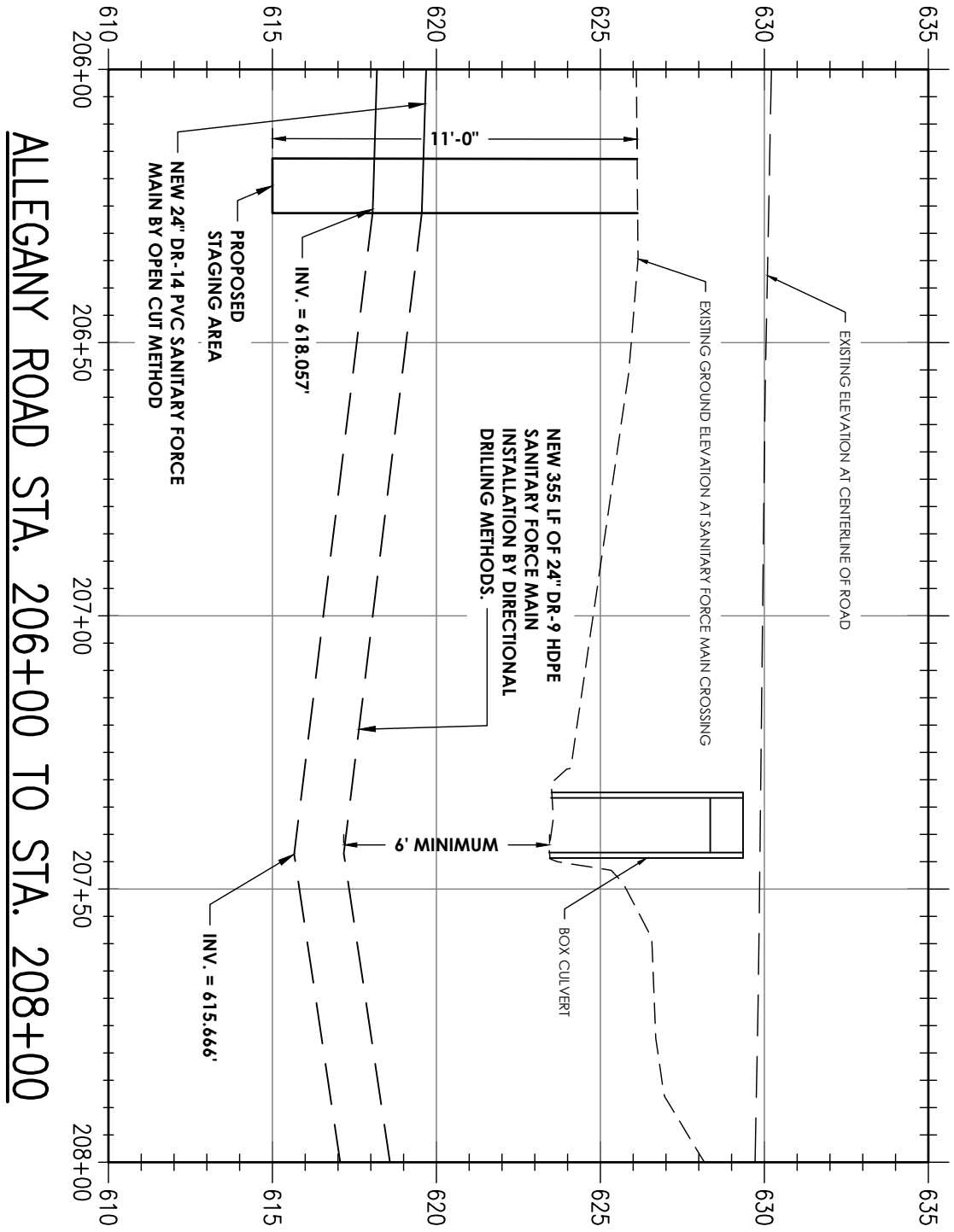

FIGURE 03

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
ARCHITECTURE ▪ ENGINEERING ▪ PLANNING

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 3 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
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Date last plotted: 10/29/2020 12:14 PM
Plotted By: Nicole Cullen

EXHIBIT 03- PHOTO 1

Allegany Road Sta. A207+40

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from east to west through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A207+40. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 03- PHOTO 2

Allegany Road Sta. A207+40

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from east to west through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A207+40. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

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EXHIBIT 03- PHOTO 3

Allegany Road Sta. A207+40

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from east to west through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A207+40. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 37 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

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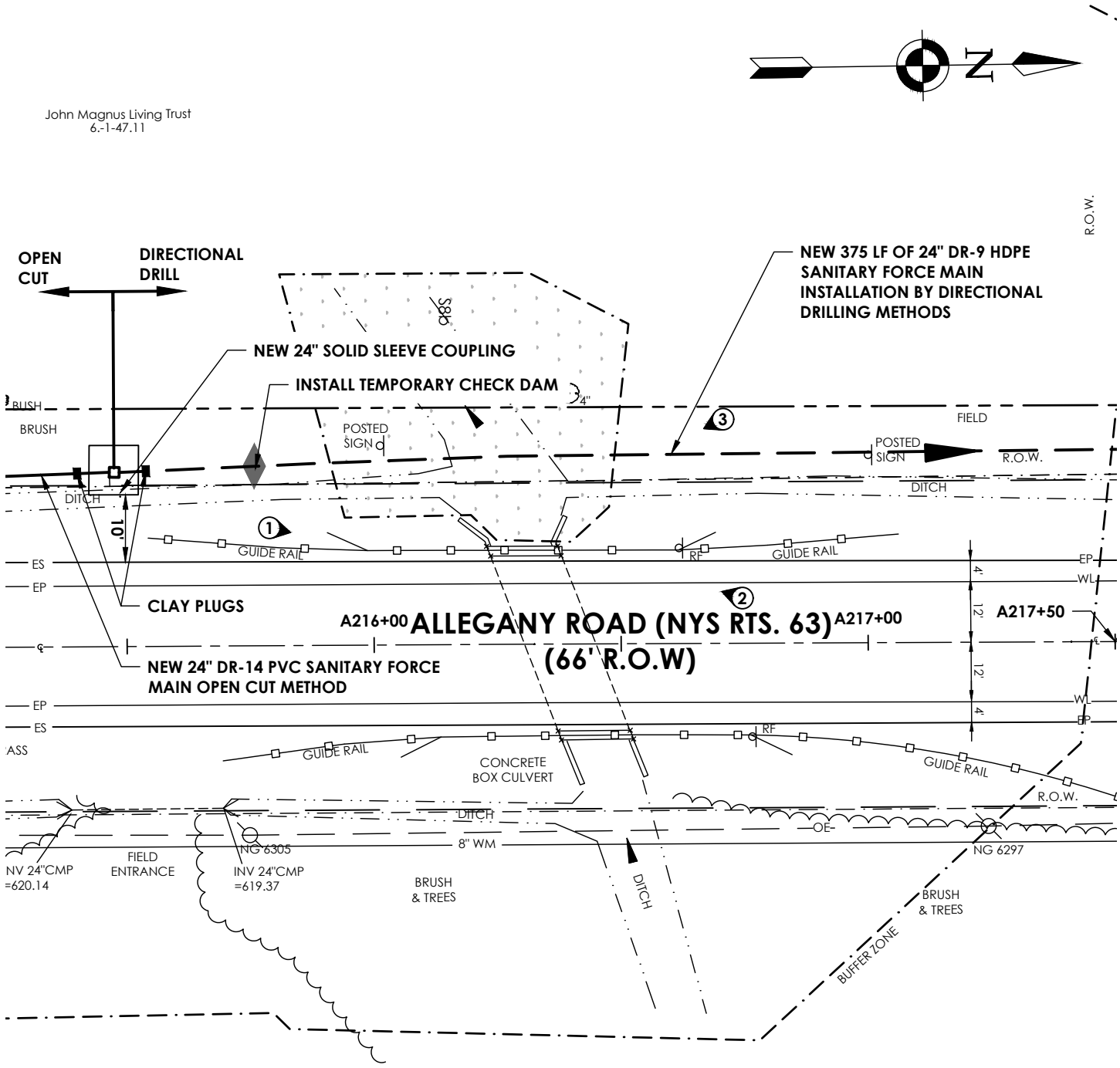
EXHIBIT 4

ALLEGANY ROAD (STA. A216+35)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 04

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DATE:	4/27/20
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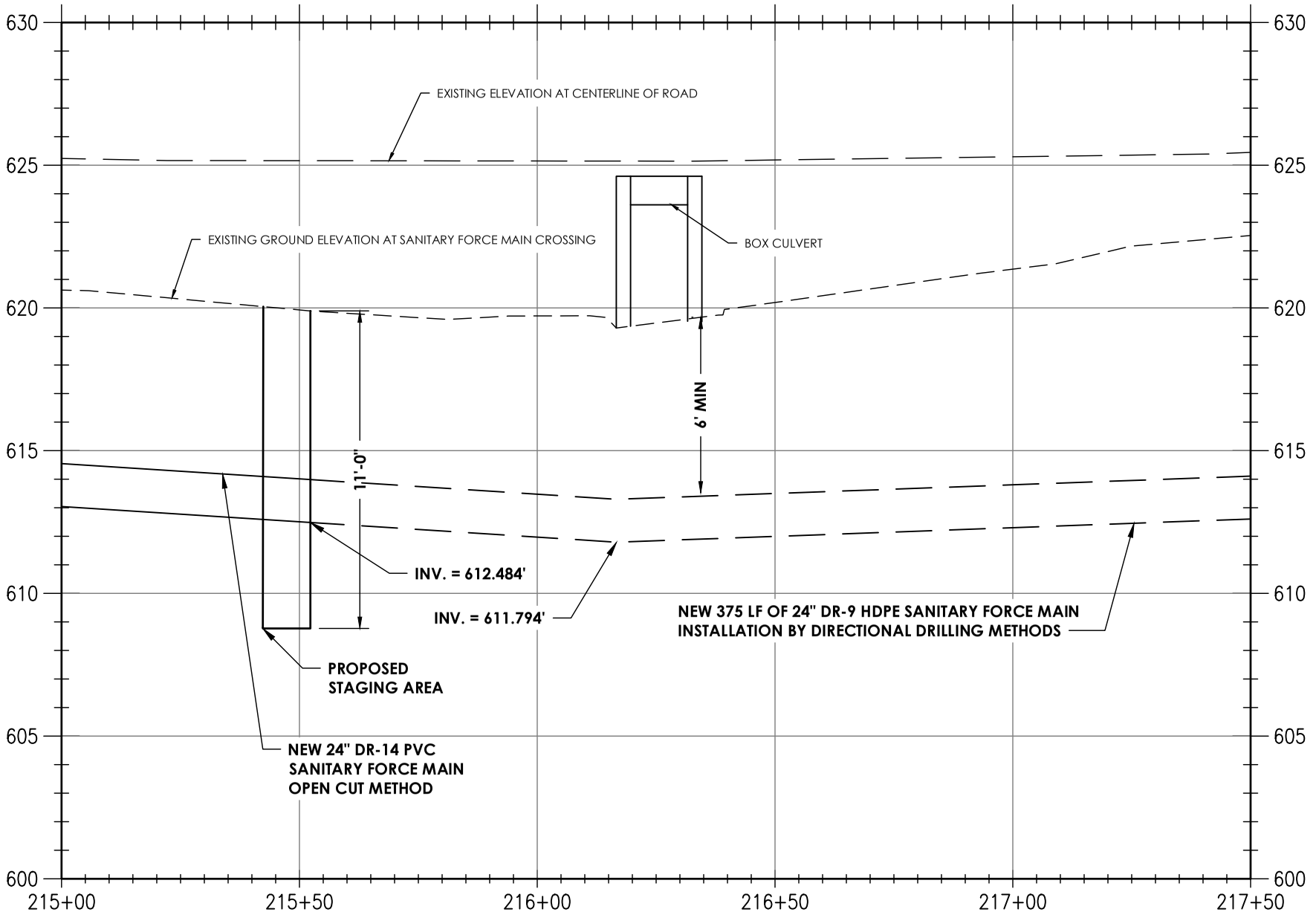
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 4 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:14 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 215+00 TO STA. 217+50

H. SCALE: 1" = 30'
V: SCALE: 1" = 5'

FIGURE 04

STREAM CROSSING NO. 4 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
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Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:14 PM
Plotted By: Nicole Cullen

EXHIBIT 04- PHOTO 1

Allegany Road Sta. A216+35

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from west to east through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A216+35. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 38 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 04- PHOTO 2

Allegany Road Sta. A216+35

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from west to east through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A216+35. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 38 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 04- PHOTO 3

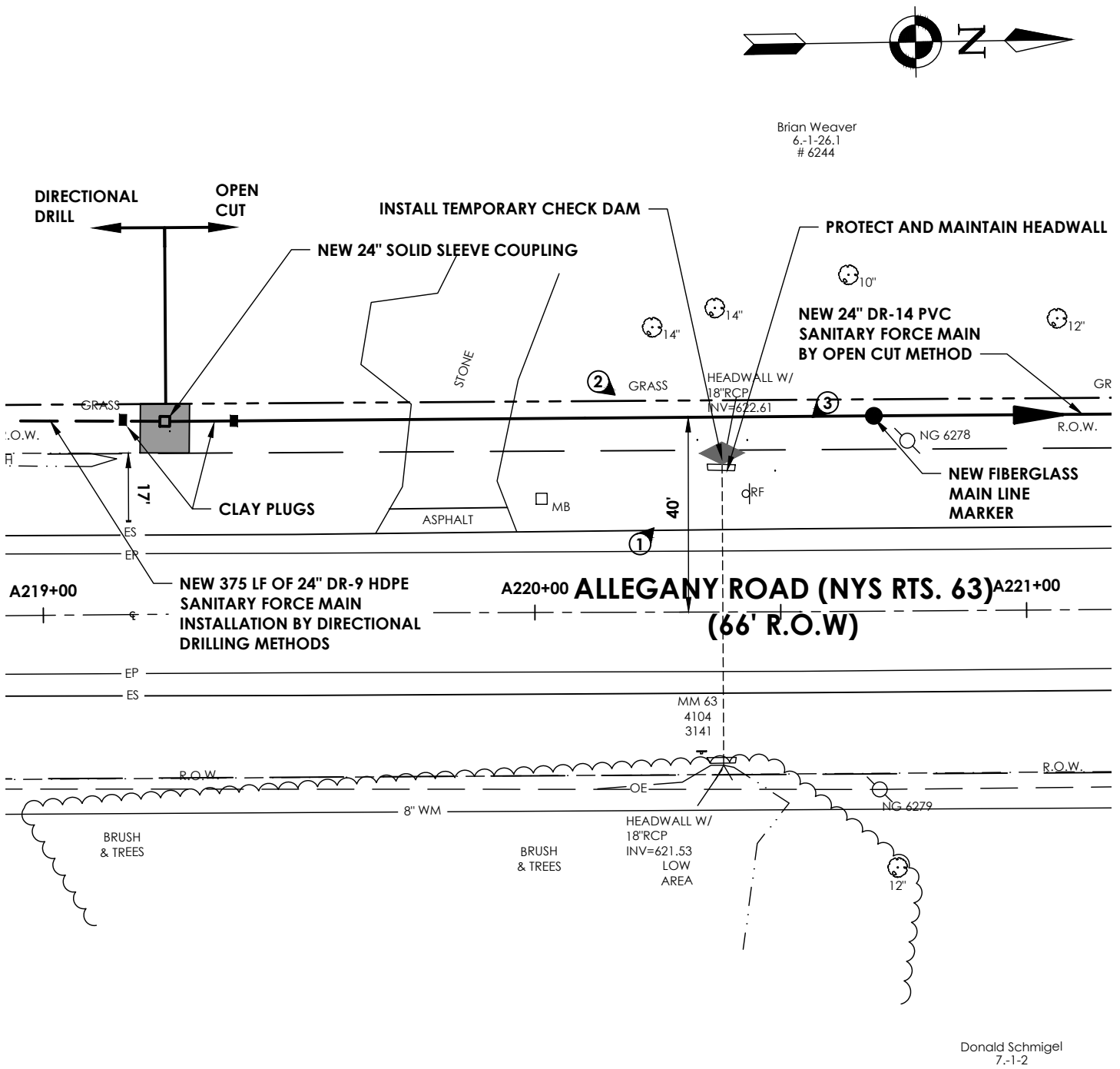
Allegany Road Sta. A216+35

This section of sewer main will be directional drilled a minimum of 6 feet below the unnamed class C stream, which flows from west to east through a 6-foot by 10-foot concrete box culvert and crosses Allegany Road at approximately Sta. A216+35. Field investigation delineated the stream as relatively permanent. The proposed sewer main will cross the creek at approximately 38 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 5

ALLEGANY ROAD (STA. A220+40)



LEGEND

LOCATION AND DIRECTION OF:

- ◀1 PHOTO 1
- ◀2 PHOTO 2
- ◀3 PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 05

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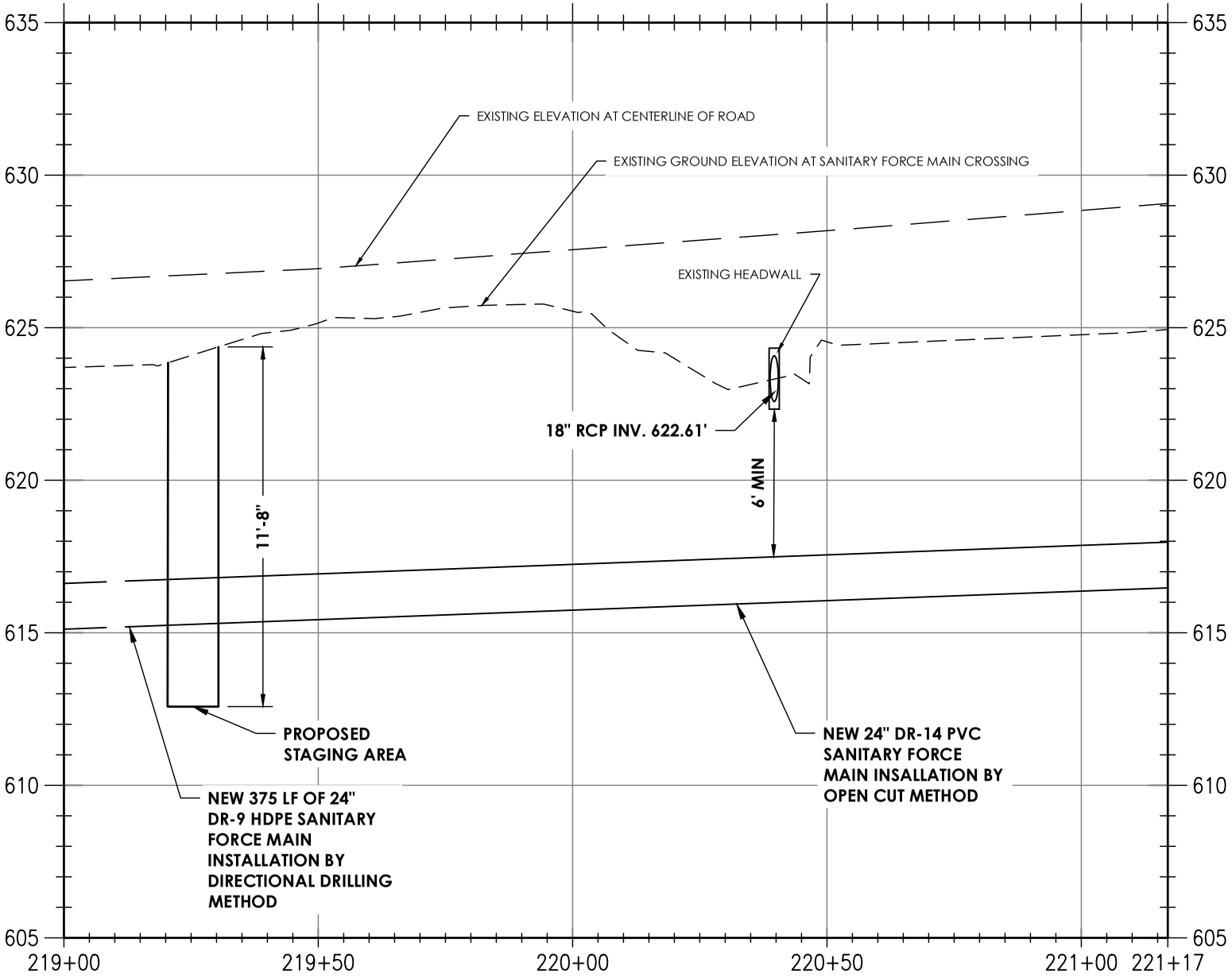
PROJ. #:	14822.00

STREAM CROSSING NO. 5 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:15 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 219+00 TO STA. 221+17

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 05

STREAM CROSSING NO. 5 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
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PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:15 PM
Plotted By: Nicole Cullen

EXHIBIT 05- PHOTO 1

Allegany Road Sta. A220+40

This section of sewer main will be open cut and installed to the west of the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A220+40 and discharges to an unnamed localized wetland. Field Investigation delineated this as an intermittent stream with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will utilize silt fencing and a temporary check dam.

EXHIBIT 05- PHOTO 2

Allegany Road Sta. A220+40

This section of sewer main will be open cut and installed to the west of the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A220+40 and discharges to an unnamed localized wetland. Field Investigation delineated this as an intermittent stream with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will utilize silt fencing and a temporary check dam.

EXHIBIT 05- PHOTO 3

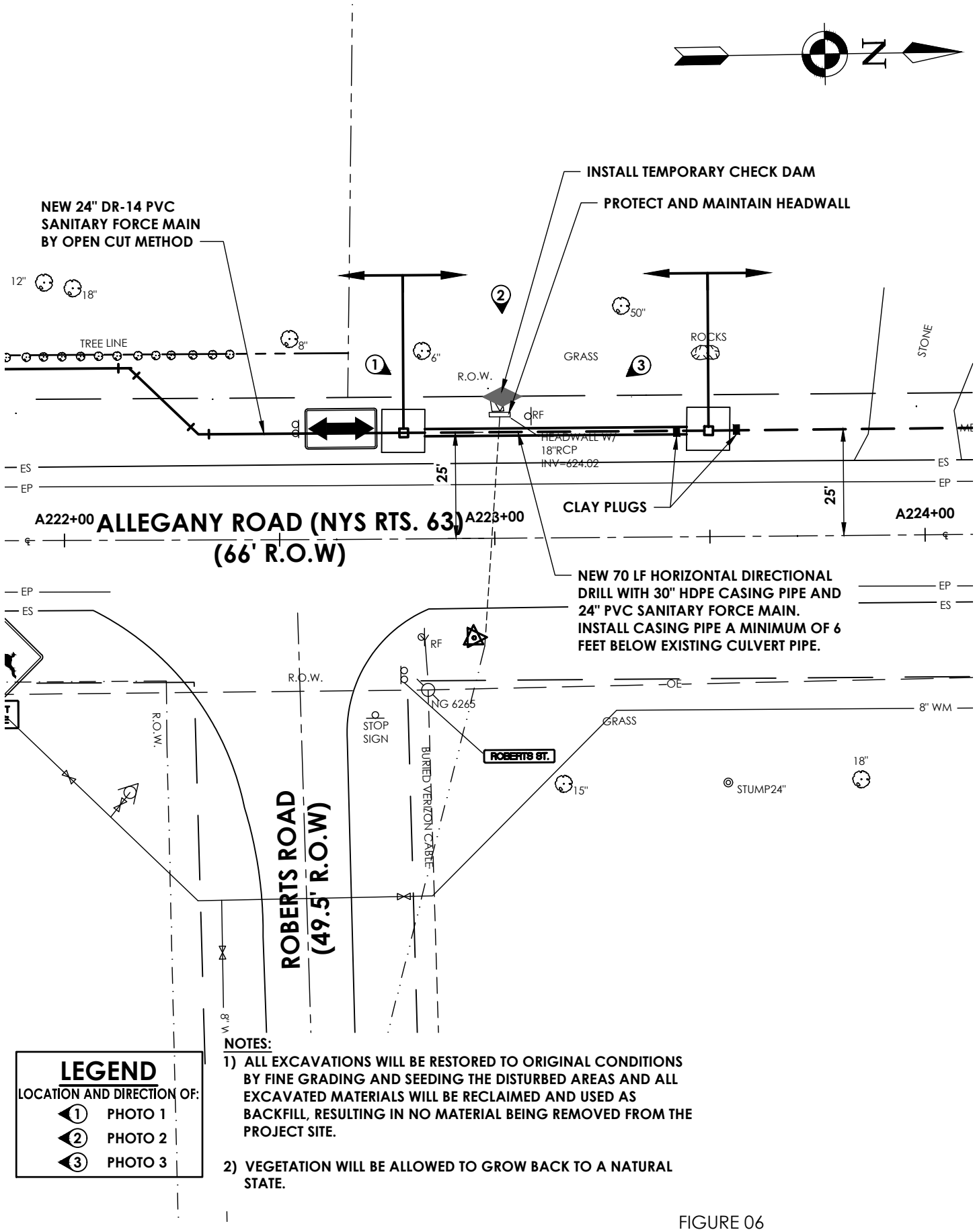
Allegany Road Sta. A220+40

This section of sewer main will be open cut and installed to the west of the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A220+40 and discharges to an unnamed localized wetland. Field Investigation delineated this as an intermittent stream with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box. Erosion control measures will utilize silt fencing and a temporary check dam.

EXHIBIT 6

ALLEGANY ROAD (STA. A223+00)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

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2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 06

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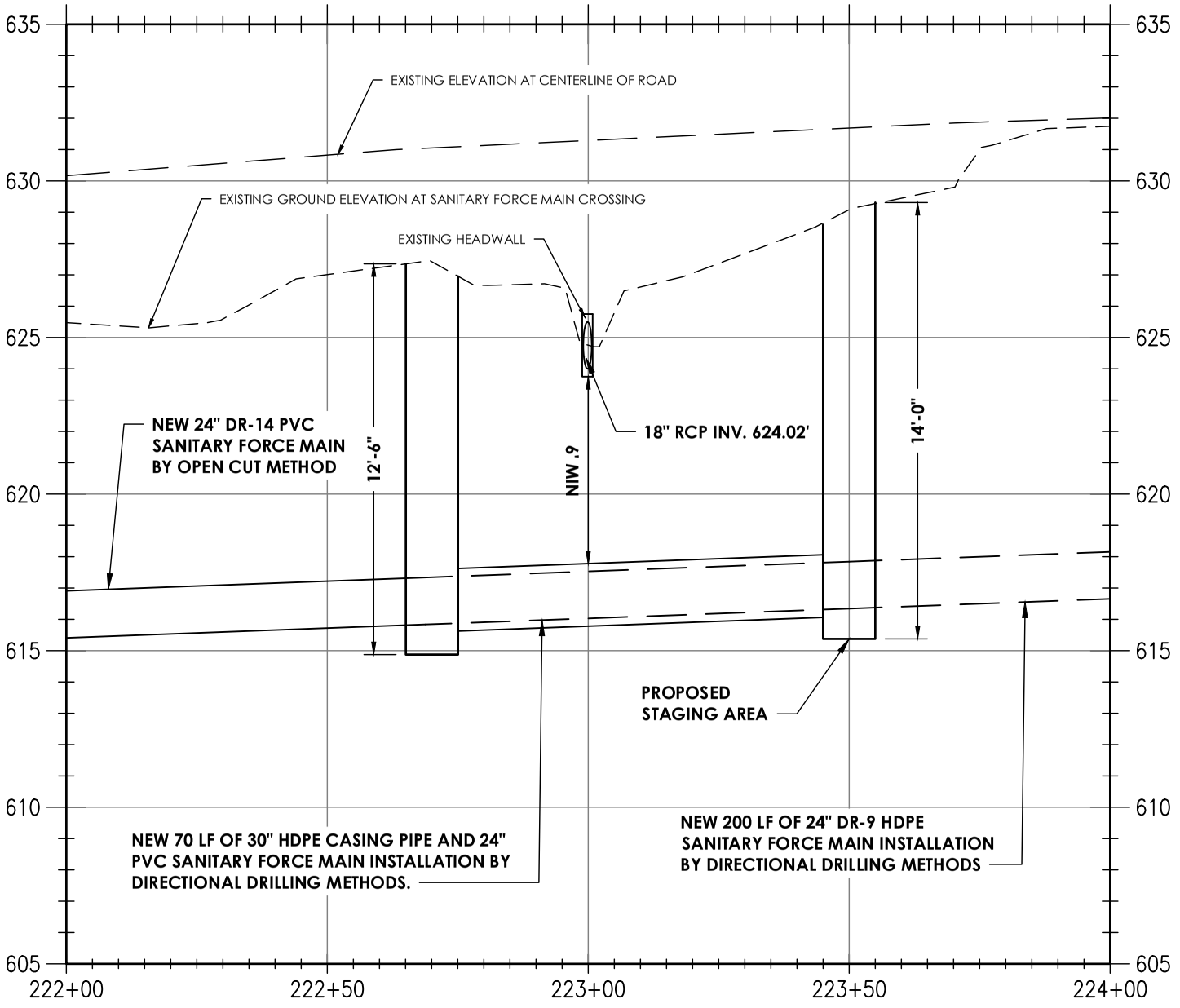
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 6 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:15 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 222+00 TO STA. 224+00

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 06

STREAM CROSSING NO. 6 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:15 PM
Plotted By: Nicole Cullen

EXHIBIT 06- PHOTO 1

Allegany Road Sta. A223+00

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet under the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A223+00. Field investigation delineated the stream as Ephemeral. The proposed sewer main will cross the drainage way at approximately 25 feet west of the centerline of the road and will implement a 30-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, and a trench box. Erosion control measures will include a temporary cofferdam if installation is performed during wet weather conditions.

EXHIBIT 06- PHOTO 2

Allegany Road Sta. A223+00

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet under the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A223+00. Field investigation delineated the stream as Ephemeral. The proposed sewer main will cross the drainage way at approximately 25 feet west of the centerline of the road and will implement a 30-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, and a trench box. Erosion control measures will include a temporary cofferdam if installation is performed during wet weather conditions.

EXHIBIT 06- PHOTO 3

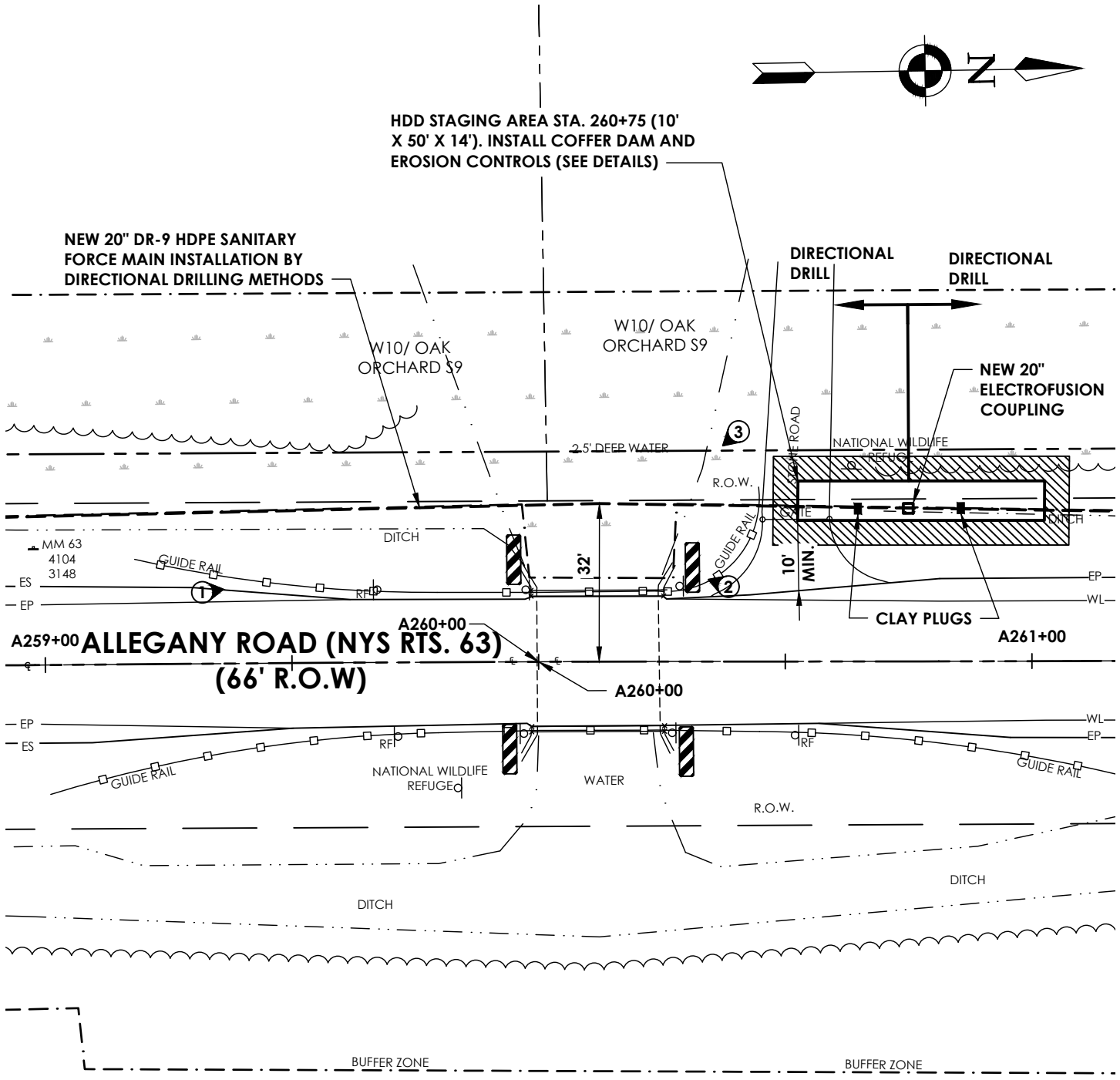
Allegany Road Sta. A223+00

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet under the existing culvert. The unnamed drainage way, which flows from west to east, crosses Allegany Road through an existing 18-inch RCP culvert with a concrete headwall at approximately Sta. A223+00. Field investigation delineated the stream as Ephemeral. The proposed sewer main will cross the drainage way at approximately 25 feet west of the centerline of the road and will implement a 30-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, and a trench box. Erosion control measures will include a temporary cofferdam if installation is performed during wet weather conditions.

EXHIBIT 7

ALLEGANY ROAD (STA. A260+15)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 07

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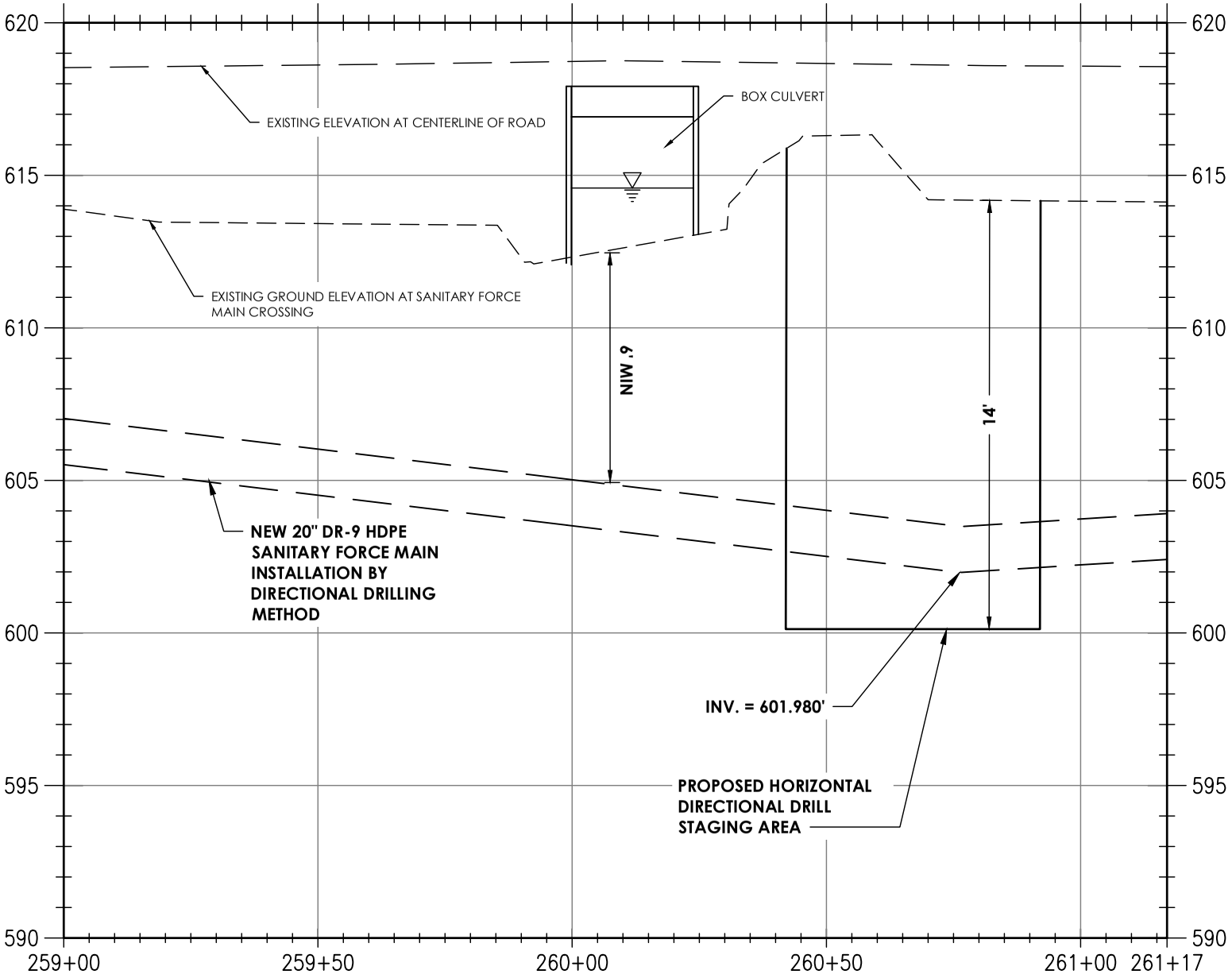
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 7 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Plotted By: Nicole Cullen
Date last plotted: 10/29/2020 12:16 PM
Date last accessed: 10/29/2020 8:42 AM
Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg



ALLEGANY ROAD STA. 259+00 TO STA. 261+17

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 07

STREAM CROSSING NO. 7 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:16 PM
Plotted By: Nicole Cullen

EXHIBIT 07- PHOTO 1

Allegany Road Sta. A260+15

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PEM1KF and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete culvert with concrete wing walls at approximately Sta. A260+15. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 07- PHOTO 2

Allegany Road Sta. A260+15

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PEM1KF and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete culvert with concrete wing walls at approximately Sta. A260+15. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 07- PHOTO 3

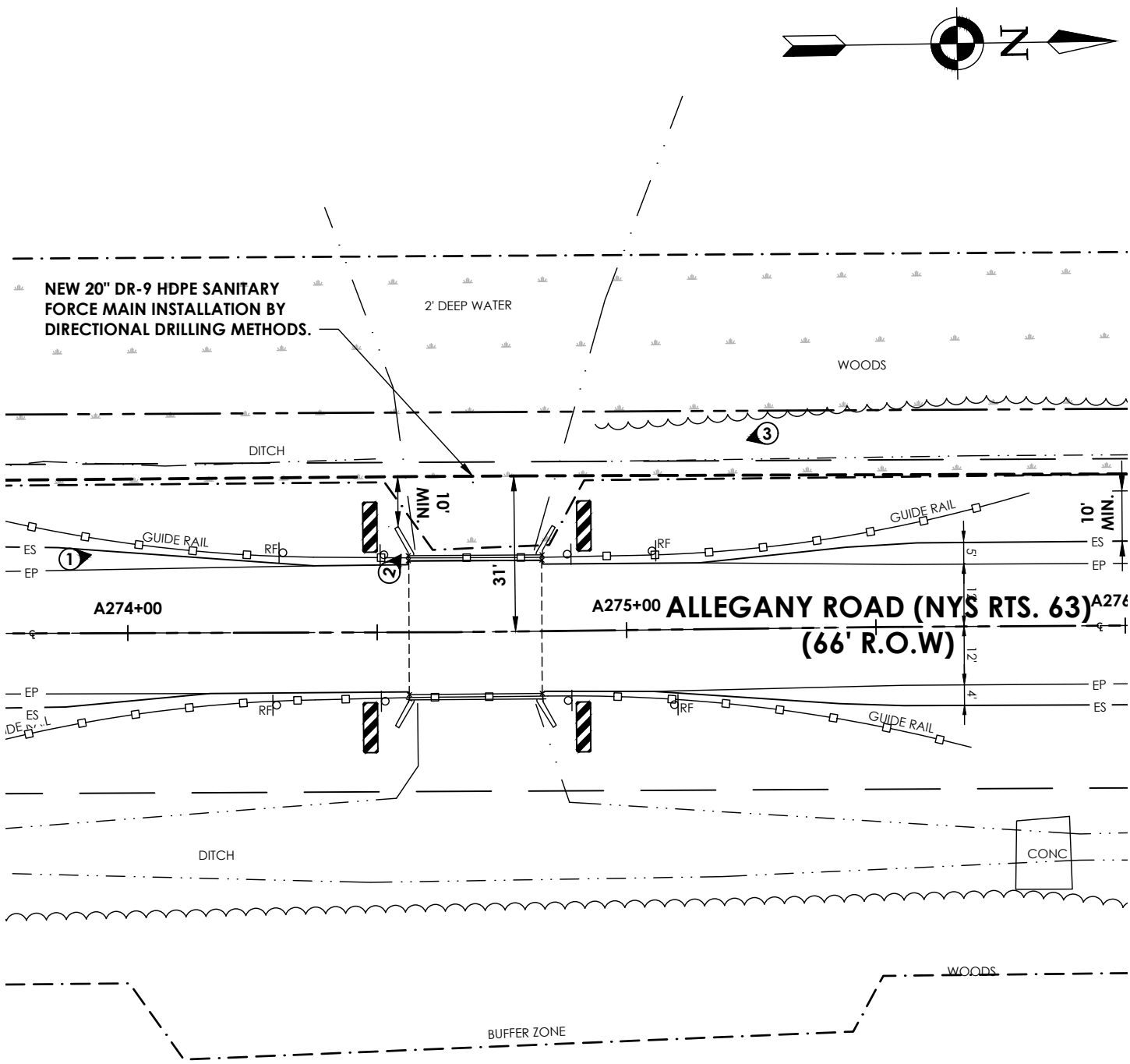
Allegany Road Sta. A260+15

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PEM1KF and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete culvert with concrete wing walls at approximately Sta. A260+15. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 8

ALLEGANY ROAD (STA. A274+70)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 08

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SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 8 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
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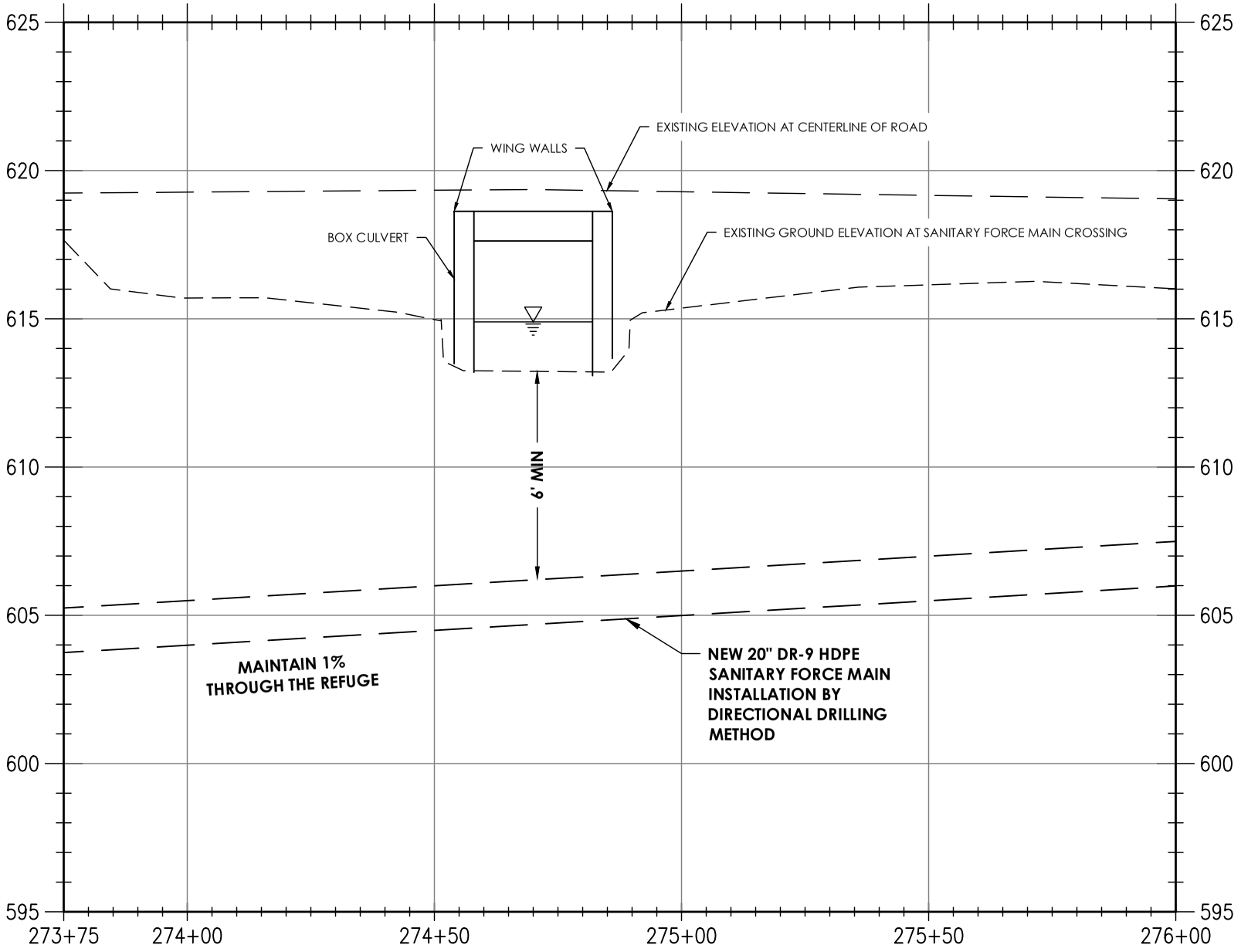

ALLEGANY ROAD STA. 273+75 TO STA. 276+00

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 08

STREAM CROSSING NO. 8 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
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SCALE:	1" = 30'
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Referenced Drawings: None
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Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:17 PM
Plotted By: Nicole Cullen

EXHIBIT 8- PHOTO 1

Allegany Road Sta. A274+70

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel that lets water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete bridge with concrete wing walls at approximately Sta. A274+70. The proposed sewer main will cross the creek at approximately 31 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details in mitigate the wetland disturbance.

EXHIBIT 8- PHOTO 2

Allegany Road Sta. A274+70

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel that lets water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete bridge with concrete wing walls at approximately Sta. A274+70. The proposed sewer main will cross the creek at approximately 31 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details in mitigate the wetland disturbance.

EXHIBIT 8- PHOTO 3

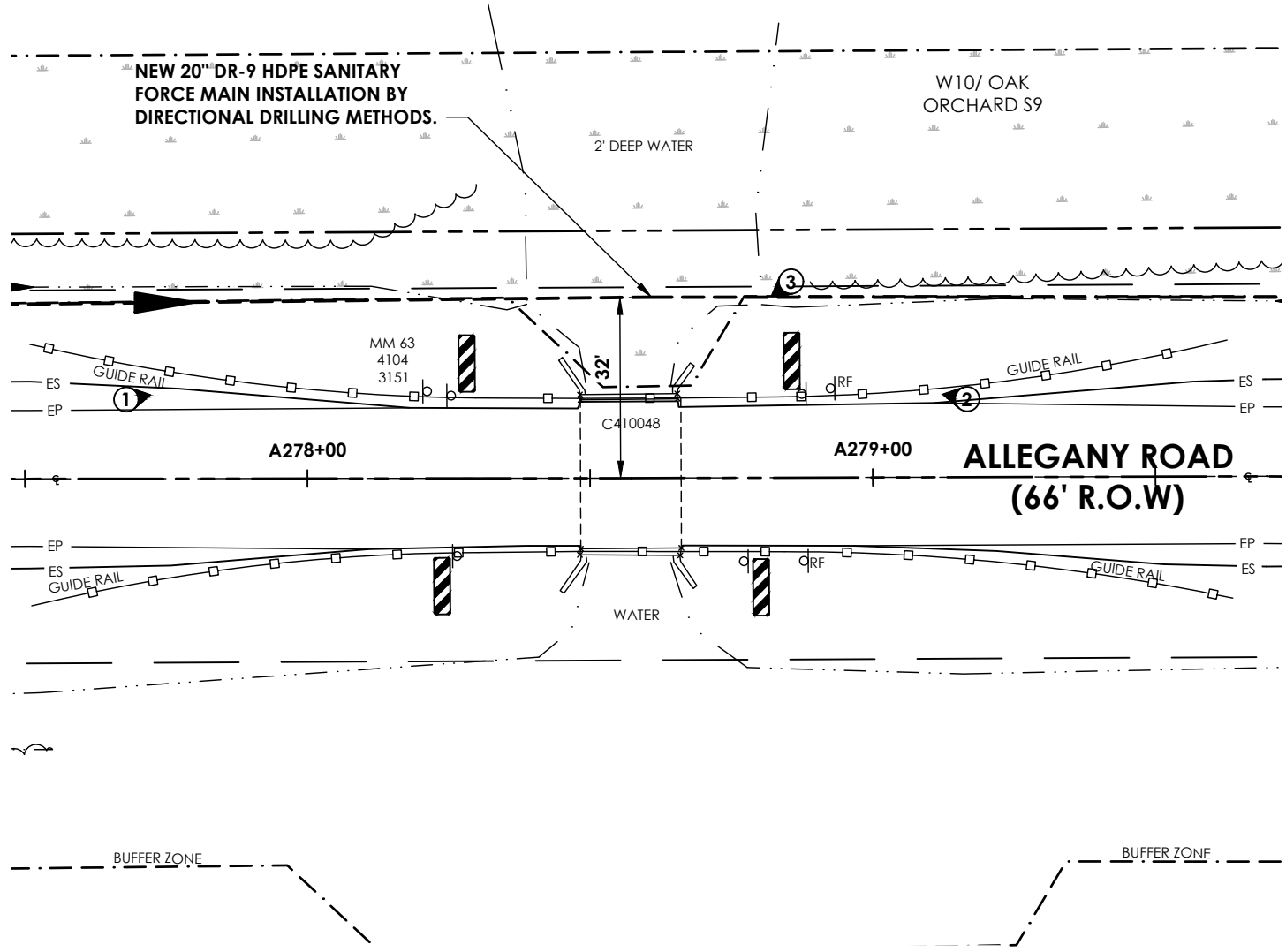
Allegany Road Sta. A274+70

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel that lets water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete bridge with concrete wing walls at approximately Sta. A274+70. The proposed sewer main will cross the creek at approximately 31 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details in mitigate the wetland disturbance.

EXHIBIT 9

ALLEGANY ROAD (STA. A278+60)



NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

LEGEND

LOCATION AND DIRECTION OF:

- ◀1 PHOTO 1
- ◀2 PHOTO 2
- ◀3 PHOTO 3

FIGURE 09

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
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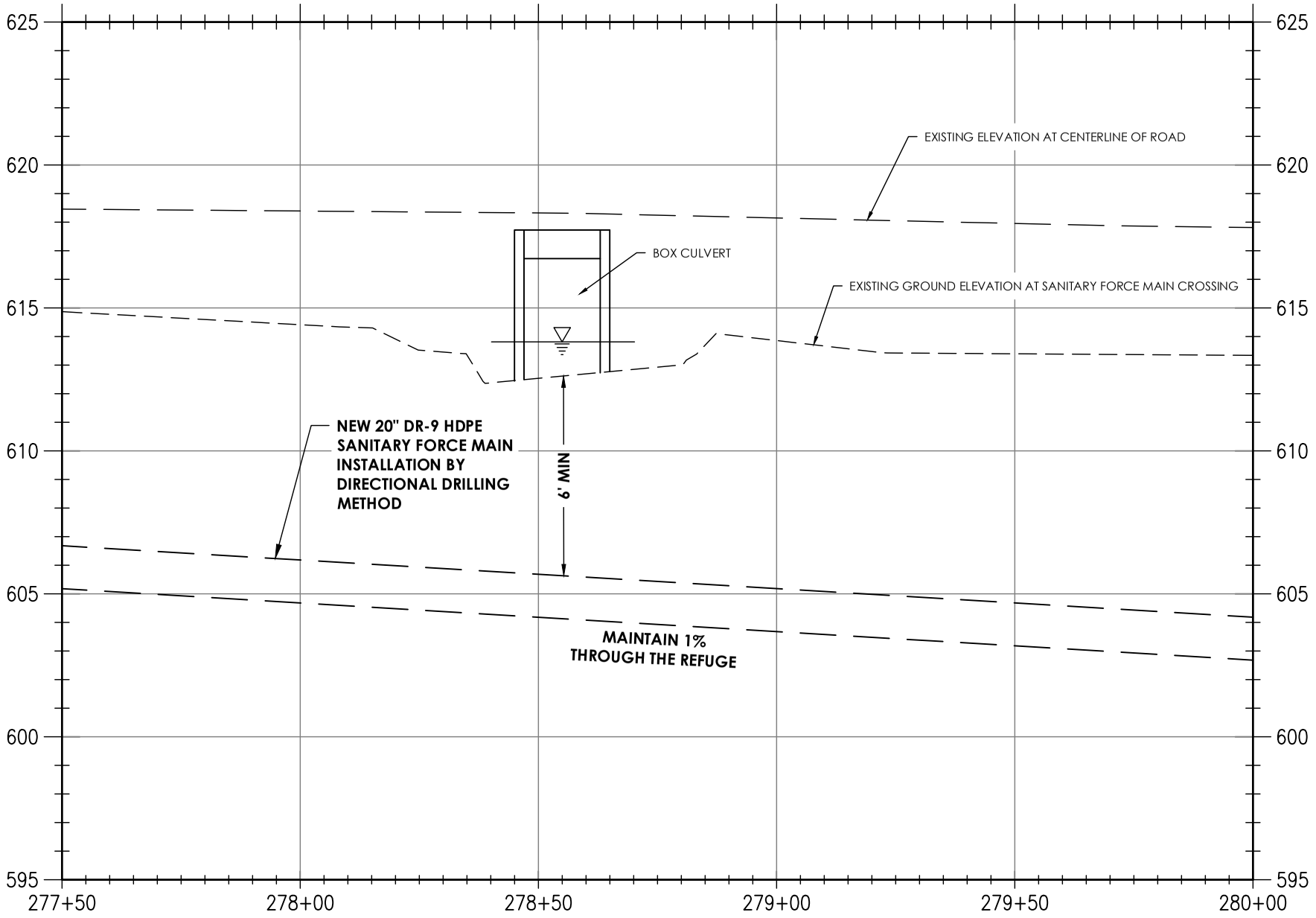
DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 9 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:17 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 277+50 TO STA. 280+00

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 09

STREAM CROSSING NO. 9 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
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Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:17 PM
Plotted By: Nicole Cullen

EXHIBIT 9- PHOTO 1

Allegany Road Sta. A278+60

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 16-foot concrete bridge with concrete wing walls at approximately Sta. A278+60. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 9- PHOTO 2

Allegany Road Sta. A278+60

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 16-foot concrete bridge with concrete wing walls at approximately Sta. A278+60. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 9- PHOTO 3

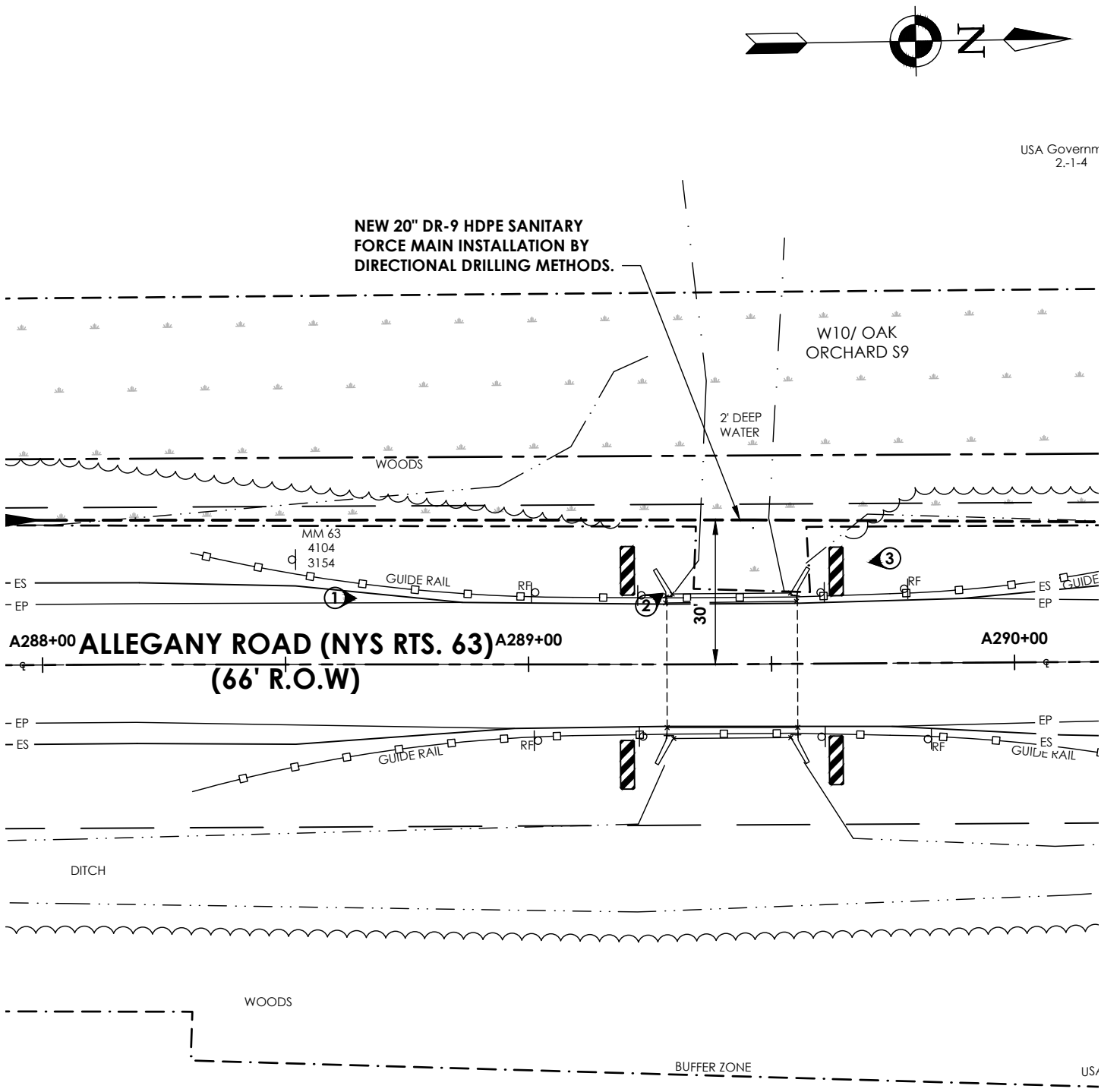
Allegany Road Sta. A278+60

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 16-foot concrete bridge with concrete wing walls at approximately Sta. A278+60. The proposed sewer main will cross the creek at approximately 32 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 10

ALLEGANY ROAD (STA. A289+45)



NOTES:

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2) **VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.**

LEGEND

LOCATION AND DIRECTION OF:

- ◀1 PHOTO 1
- ◀2 PHOTO 2
- ◀3 PHOTO 3

FIGURE 10

205 ST. PAUL STREET, SUITE 500
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DATE:	4/27/20
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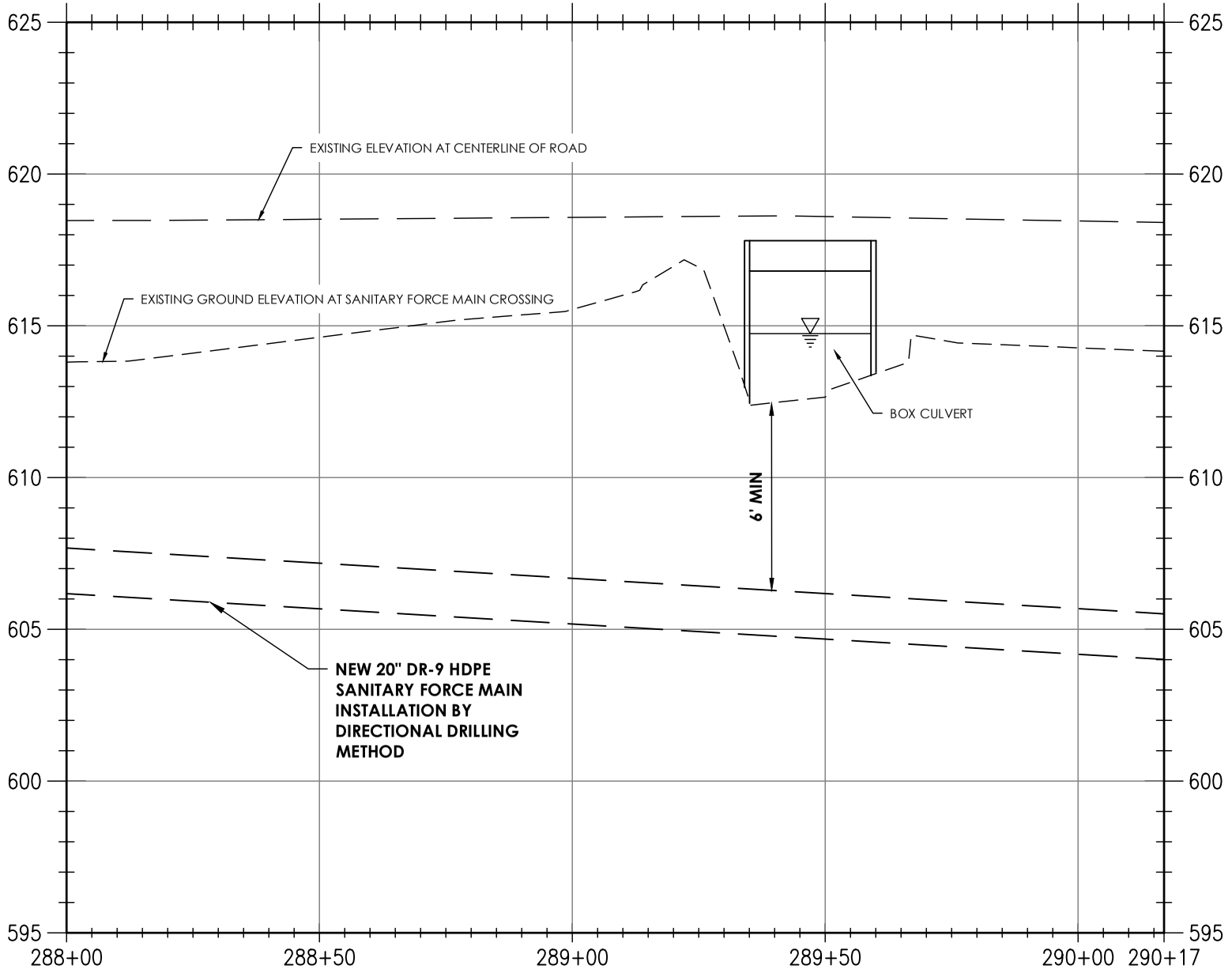
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 10 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:17 PM
Plotted By: Nicole Cullen



ALLEGANY ROAD STA. 288+00 TO STA. 290+17

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 10

STREAM CROSSING NO. 10 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:18 PM
Plotted By: Nicole Cullen

EXHIBIT 10- PHOTO 1

Allegany Road Sta. A289+45

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete box culvert with concrete wing walls at approximately Sta. A289+45. The proposed sewer main will cross the creek at approximately 30 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 10- PHOTO 2

Allegany Road Sta. A289+45

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete box culvert with concrete wing walls at approximately Sta. A289+45. The proposed sewer main will cross the creek at approximately 30 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 10- PHOTO 3

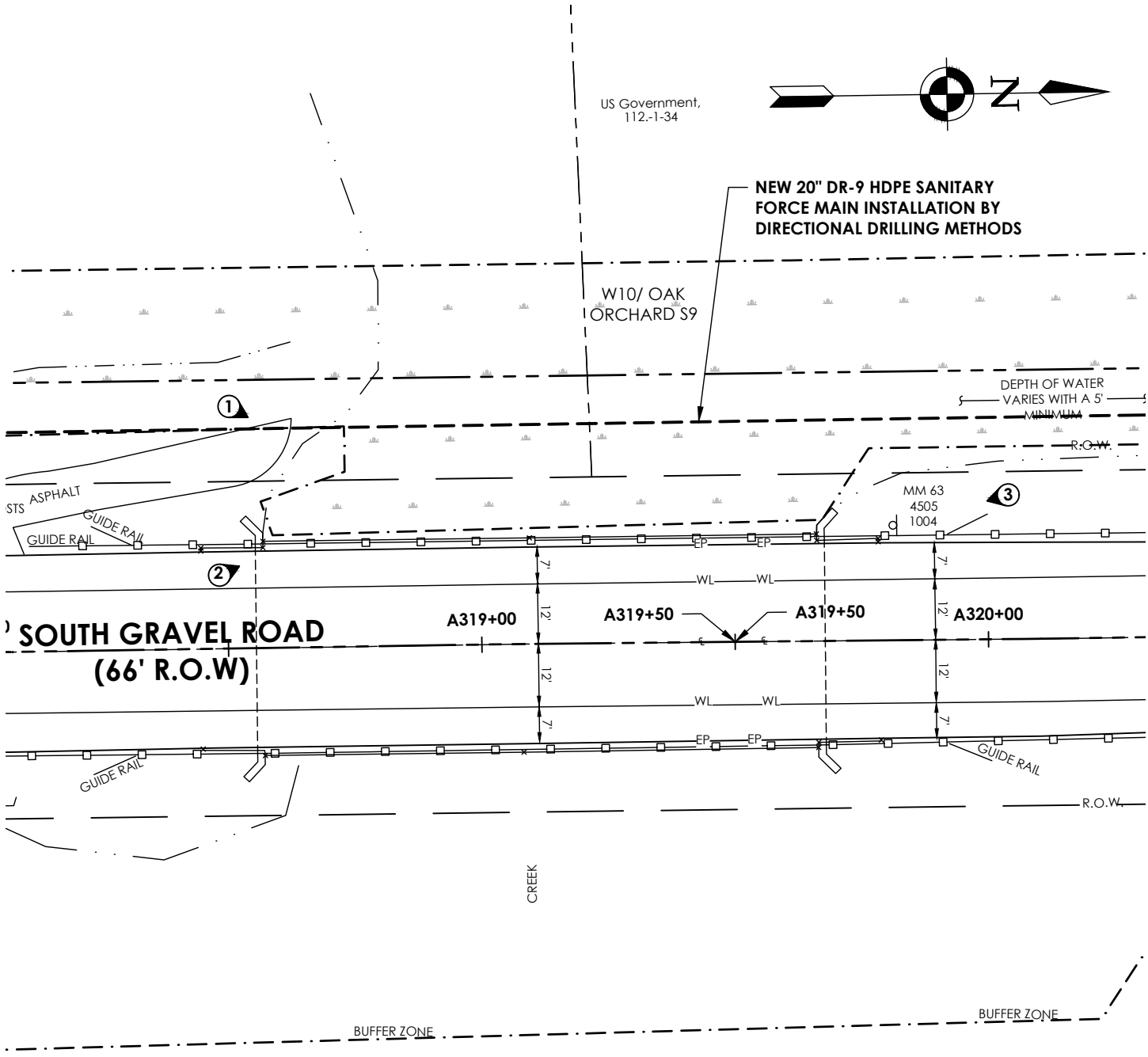
Allegany Road Sta. A289+45

This section of sewer main will be installed using directional drilling techniques under an unnamed water channel which allows water flow back and forth between Federal Wetland PFO1KE and PFO1E and the 100-foot buffer zone of State Wetland AK-5. This water channel crosses Allegany Road under an existing 24-foot concrete box culvert with concrete wing walls at approximately Sta. A289+45. The proposed sewer main will cross the creek at approximately 30 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the existing unnamed water channel. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 11

SOUTH GRAVEL ROAD (STA. A319+00)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

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2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 11

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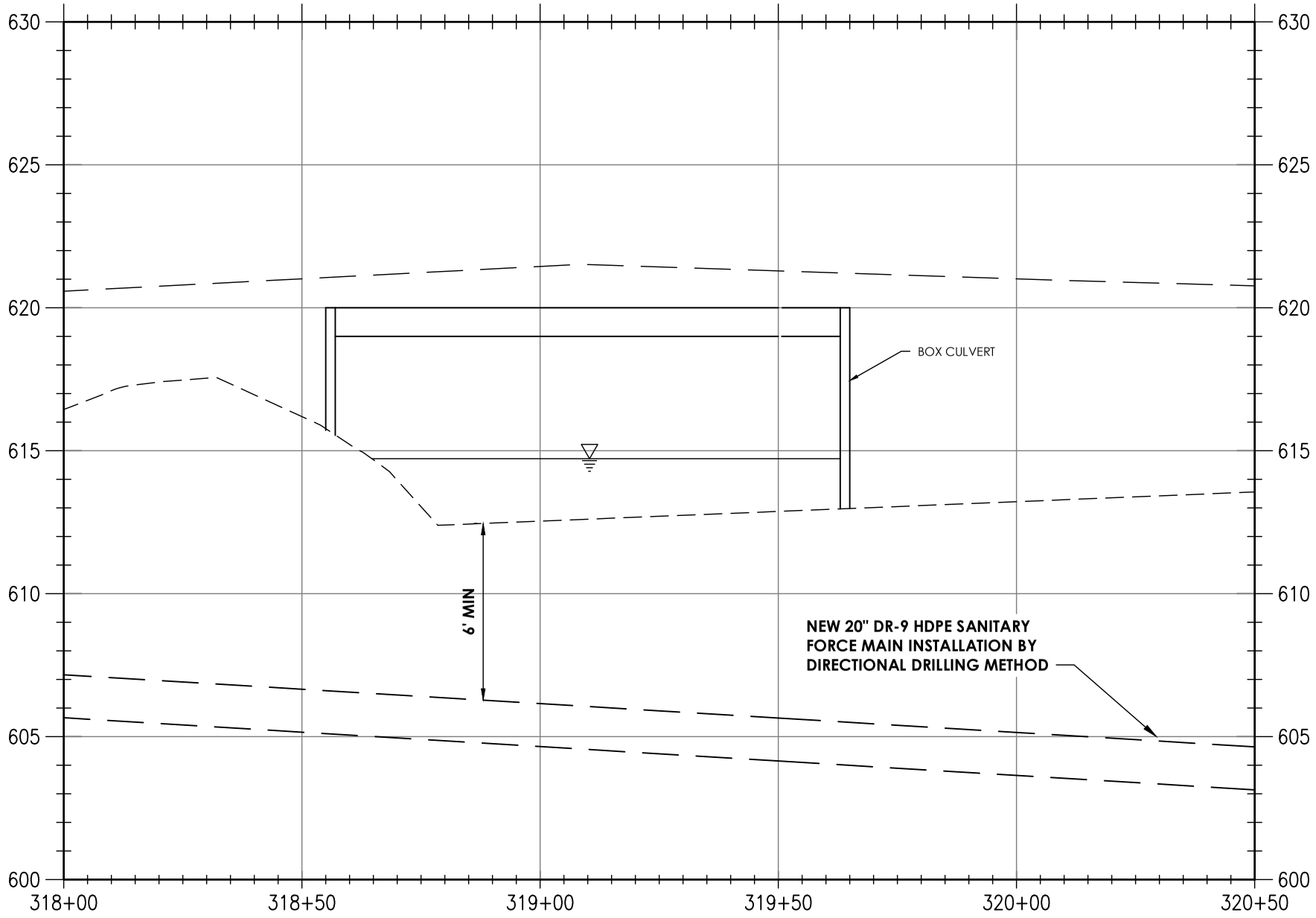
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 11 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:18 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 318+00 TO STA. 320+50

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 11

STREAM CROSSING NO. 11 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
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Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:18 PM
Plotted By: Nicole Cullen

EXHIBIT 11- PHOTO 1

South Gravel Road Sta. A319+00

This section of sewer main will be installed using directional drilling techniques under class C Stream and Federal Riverine Oak Orchard Creek and Federal Wetland PFO1E and the 100-foot buffer zone of State Wetland A-5. This creek flows from east to west and crosses South Gravel Road under an existing 110-foot concrete bridge at approximately Sta. A319+00. The proposed sewer main will cross the creek at approximately 44 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 11- PHOTO 2

South Gravel Road Sta. A319+00

This section of sewer main will be installed using directional drilling techniques under class C Stream and Federal Riverine Oak Orchard Creek and Federal Wetland PFO1E and the 100-foot buffer zone of State Wetland A-5. This creek flows from east to west and crosses South Gravel Road under an existing 110-foot concrete bridge at approximately Sta. A319+00. The proposed sewer main will cross the creek at approximately 44 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 11- PHOTO 3

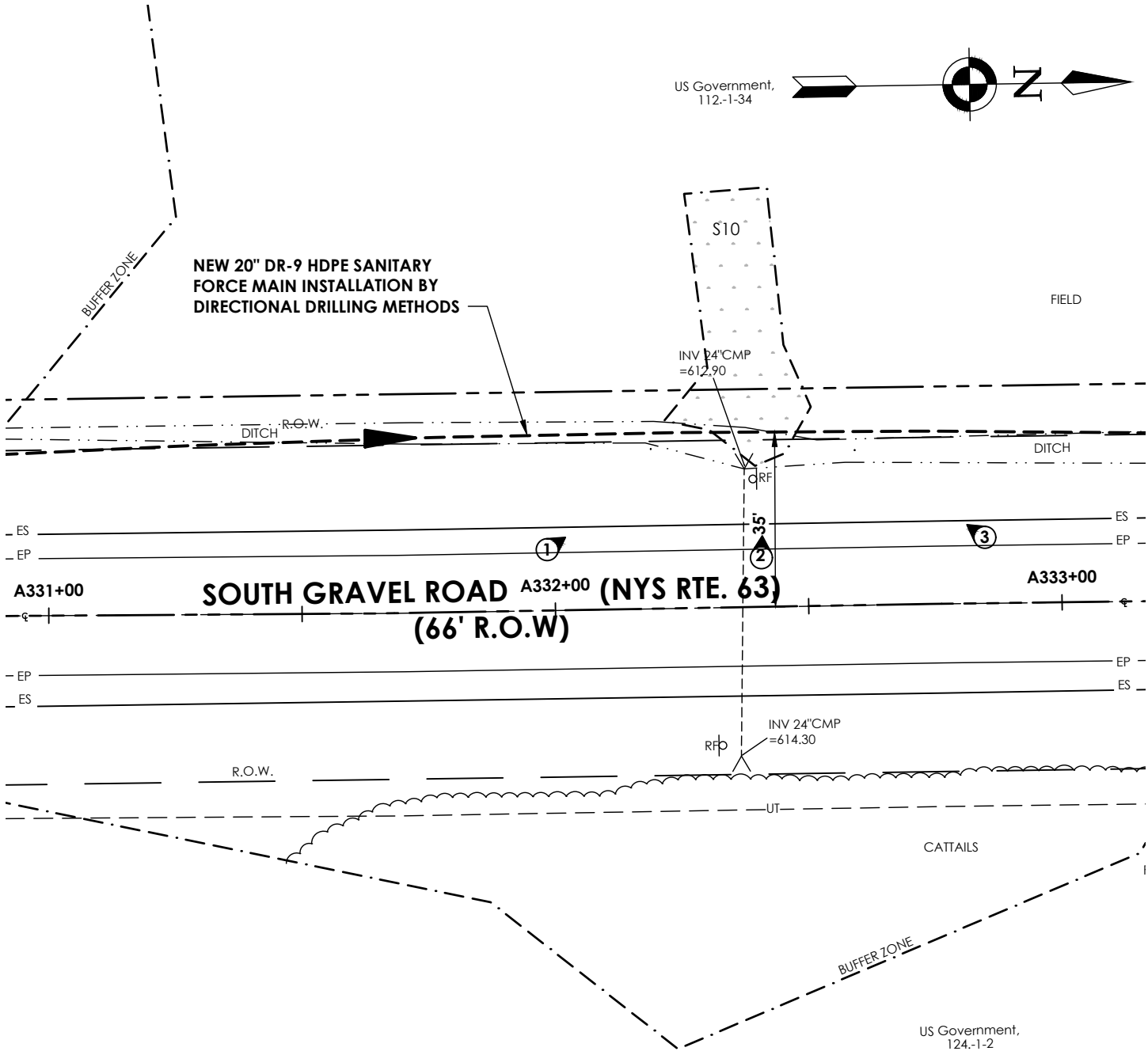
South Gravel Road Sta. A319+00

This section of sewer main will be installed using directional drilling techniques under class C Stream and Federal Riverine Oak Orchard Creek and Federal Wetland PFO1E and the 100-foot buffer zone of State Wetland A-5. This creek flows from east to west and crosses South Gravel Road under an existing 110-foot concrete bridge at approximately Sta. A319+00. The proposed sewer main will cross the creek at approximately 44 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 12

SOUTH GRAVEL ROAD (STA. A332+35)



LEGEND

LOCATION AND DIRECTION OF:

- ◄1 PHOTO 1
- ◄2 PHOTO 2
- ◄3 PHOTO 3

NOTES:

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2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 12

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PROJ. #:	14822.00

STREAM CROSSING NO. 12 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
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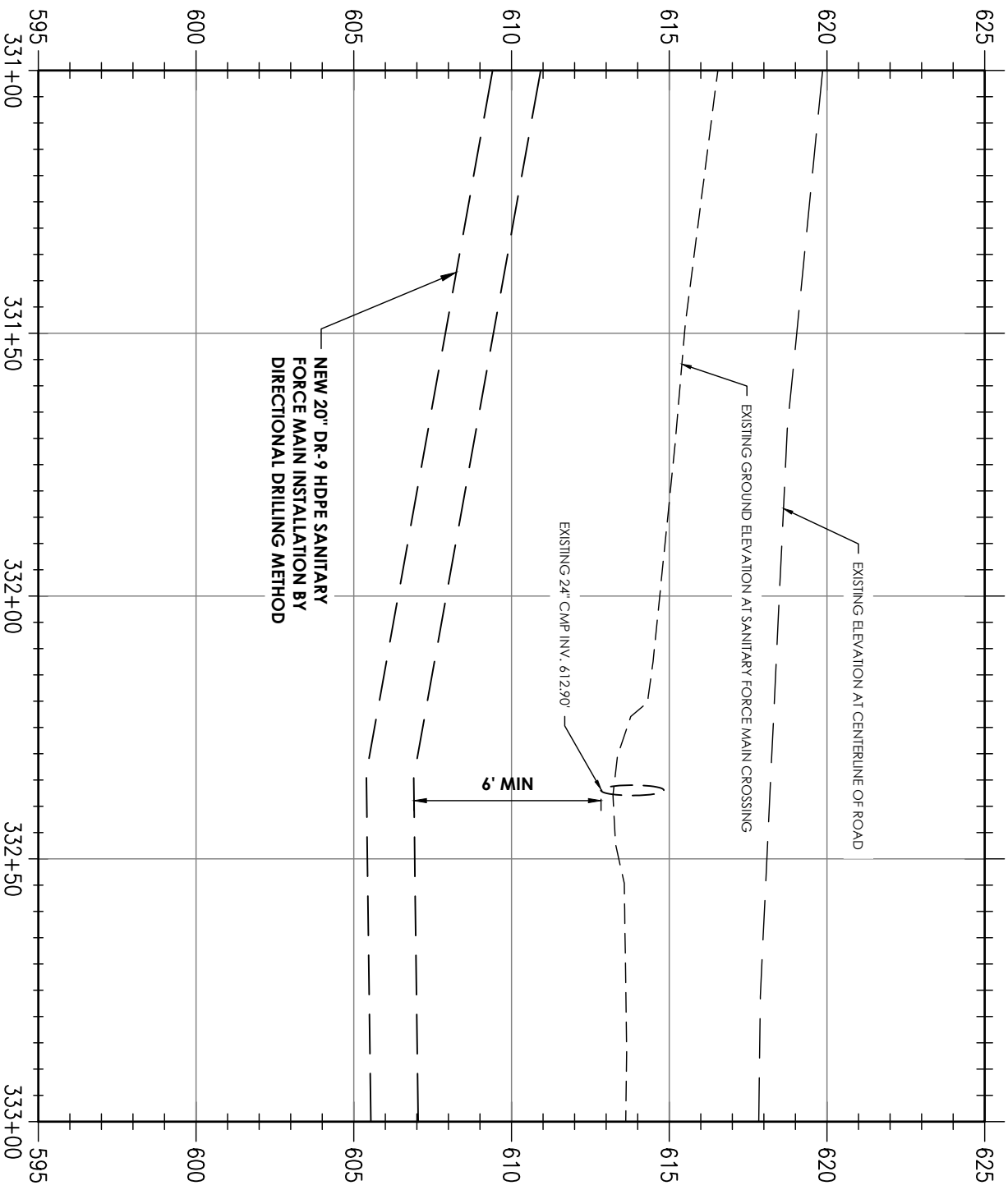

FIGURE 12

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
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DATE:	4/27/20
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PROJ. #:	14822.00

STREAM CROSSING NO. 12 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg Date last accessed: 10/29/2020 8:42 AM Date last plotted: 10/29/2020 12:19 PM Plotted By: Nicole Cullen

EXHIBIT 12- PHOTO 1

South Gravel Road Sta. A332+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing culvert. The unnamed class C stream, flows into State Wetland A-5, flows from east to west, crosses South Gravel Road through an existing 24-inch CMP culvert at approximately Sta. A332+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 12- PHOTO 2

South Gravel Road Sta. A332+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing culvert. The unnamed class C stream, flows into State Wetland A-5, flows from east to west, crosses South Gravel Road through an existing 24-inch CMP culvert at approximately Sta. A332+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 12- PHOTO 3

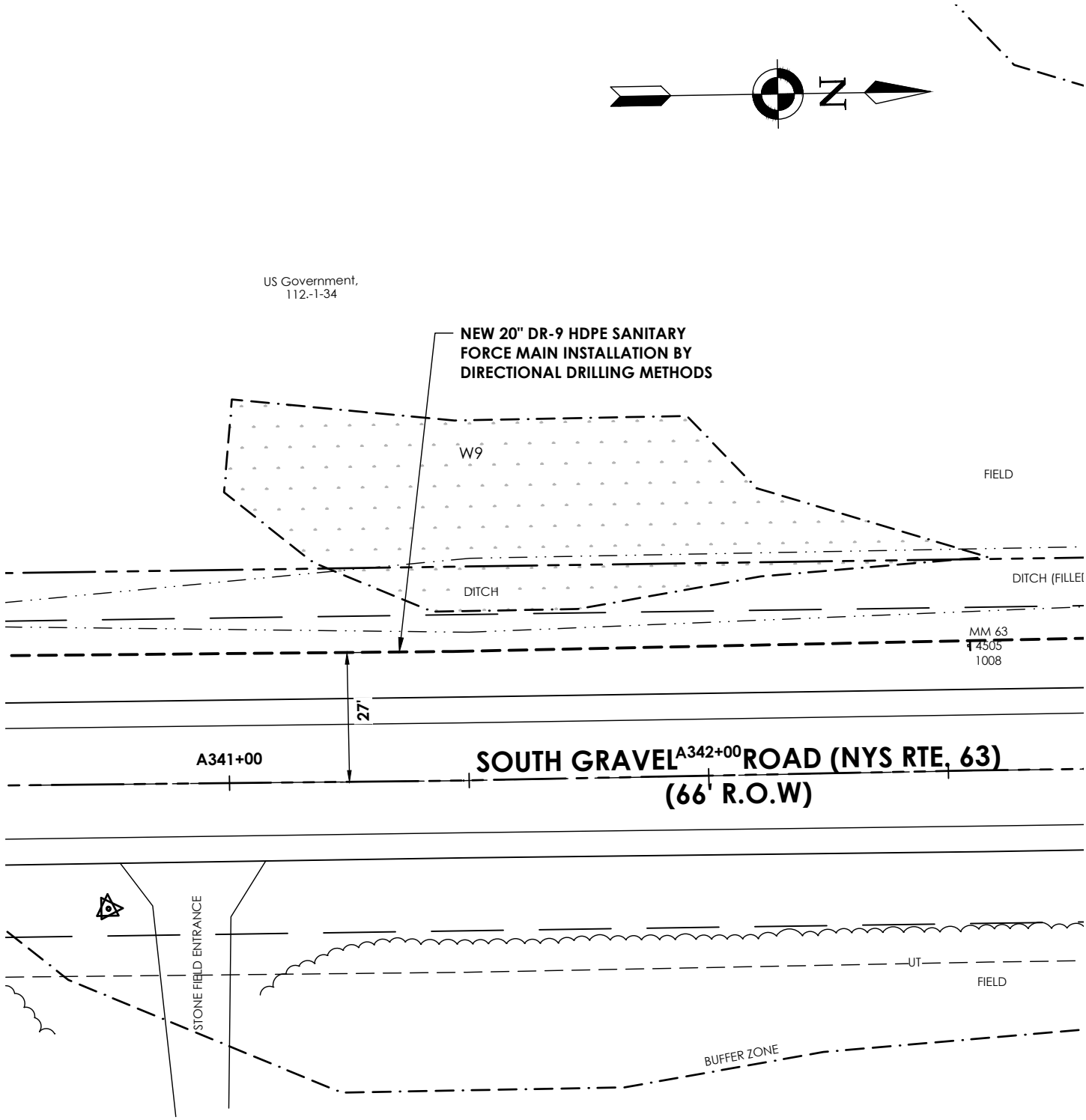
South Gravel Road Sta. A332+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing culvert. The unnamed class C stream, flows into State Wetland A-5, flows from east to west, crosses South Gravel Road through an existing 24-inch CMP culvert at approximately Sta. A332+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

EXHIBIT 13

SOUTH GRAVEL ROAD (STA. A341+50)



NOTES:

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2) **VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.**

LEGEND

LOCATION AND DIRECTION OF:

- ◀① **PHOTO 1**
- ◀② **PHOTO 2**
- ◀③ **PHOTO 3**

FIGURE 13

205 ST. PAUL STREET, SUITE 500
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PROJ. #:	14822.00

STREAM CROSSING NO. 13 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
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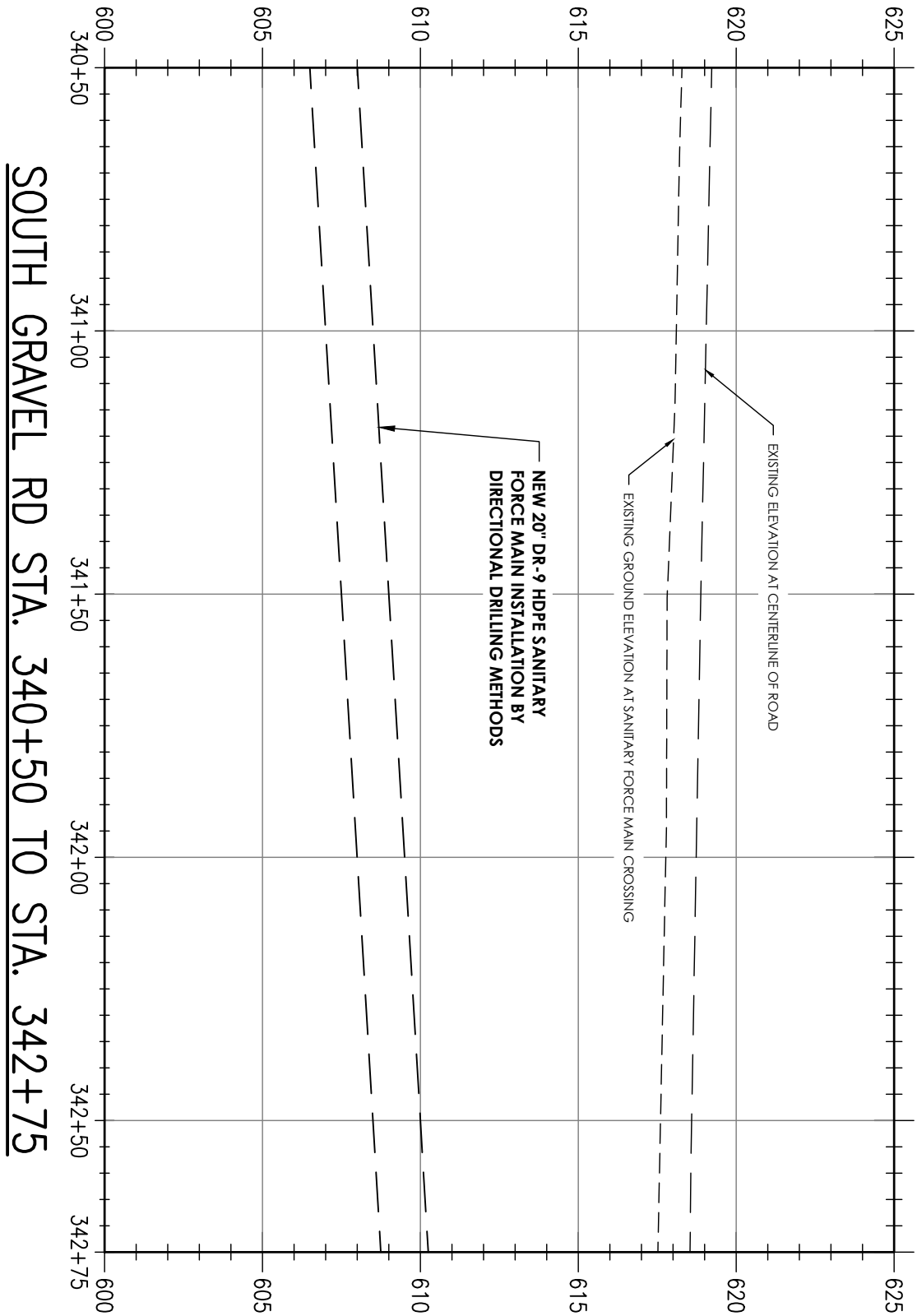

SOUTH GRAVEL RD STA. 340+50 TO STA. 342+75

H. SCALE: 1" = 30'
V: SCALE: 1" = 5'

FIGURE 13

205 ST. PAUL STREET, SUITE 500
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STREAM CROSSING NO. 13 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
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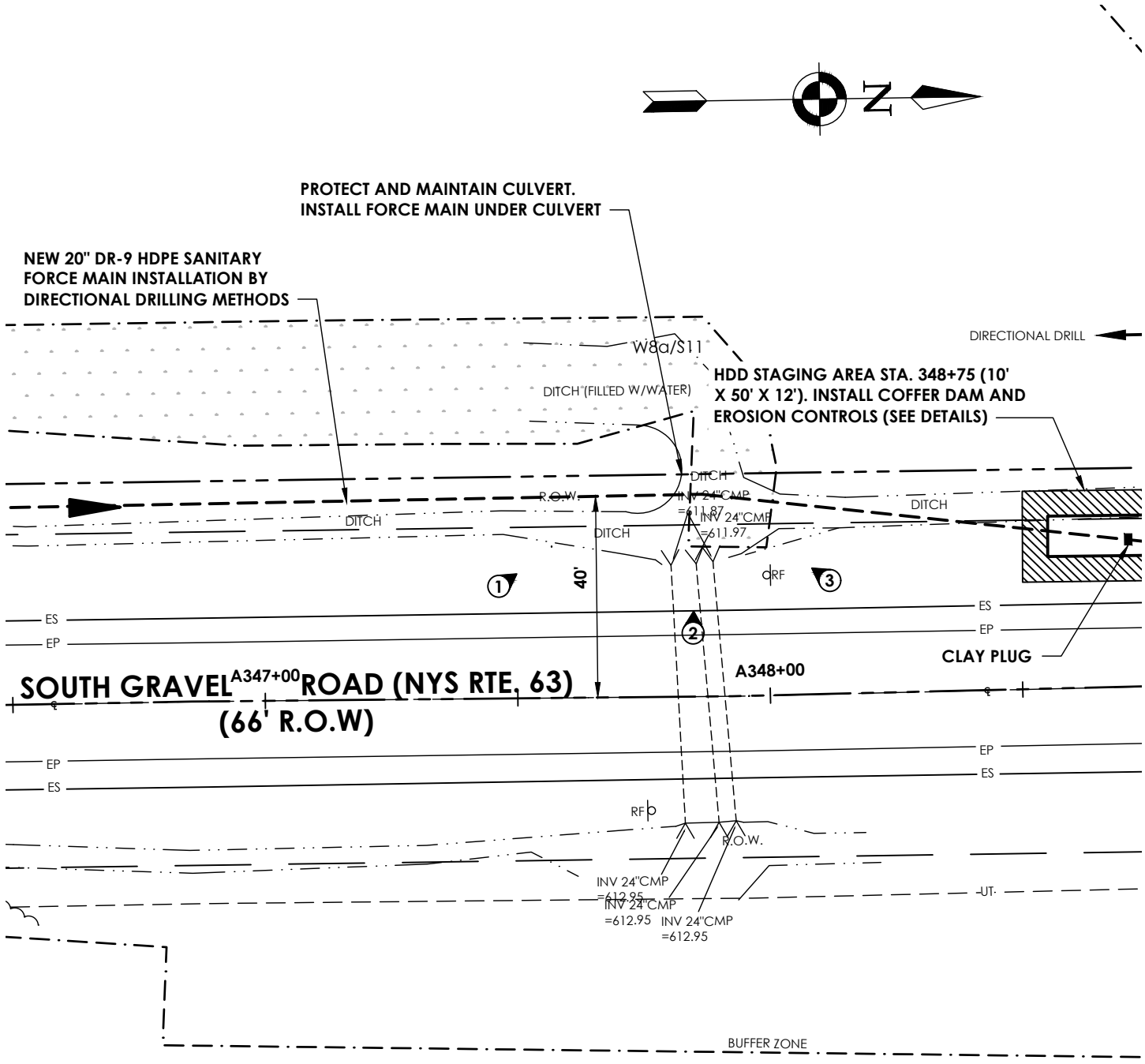
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:19 PM
Plotted By: Nicole Cullen

EXHIBIT 14

SOUTH GRAVEL ROAD (STA. A347+80)



LEGEND

LOCATION AND DIRECTION OF:

- ◀1 PHOTO 1
- ◀2 PHOTO 2
- ◀3 PHOTO 3

NOTES:

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2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 14

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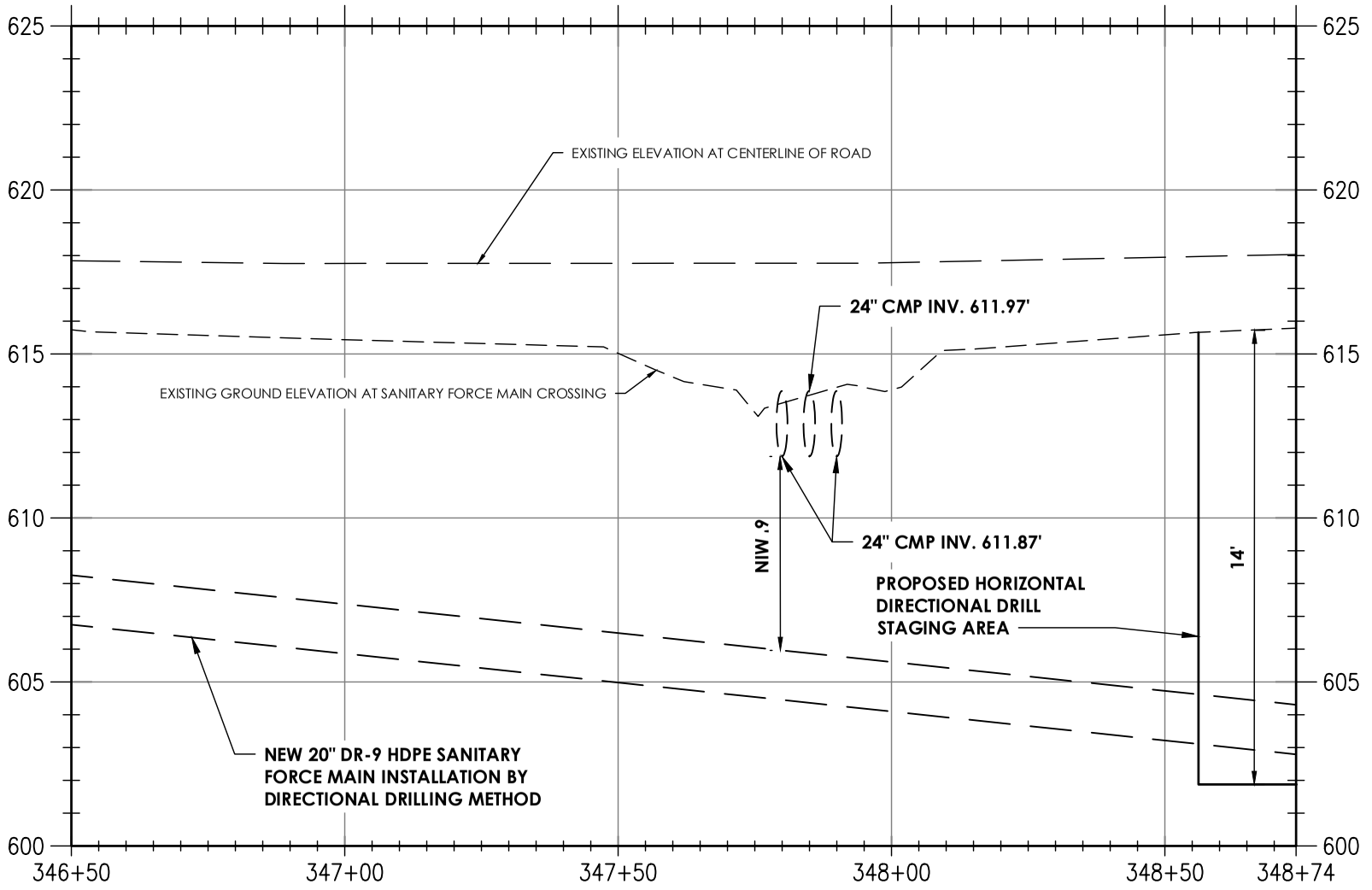
STREAM CROSSING NO. 14 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:19 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 346+50 TO STA. 348+74

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 14

STREAM CROSSING NO. 14 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:20 PM
Plotted By: Nicole Cullen

EXHIBIT 14- PHOTO 1

South Gravel Road Sta. A347+80

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through three existing 24-inch CMP culverts at approximately Sta. A347+80 and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 14- PHOTO 2

South Gravel Road Sta. A347+80

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through three existing 24-inch CMP culverts at approximately Sta. A347+80 and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 14- PHOTO 3

South Gravel Road Sta. A347+80

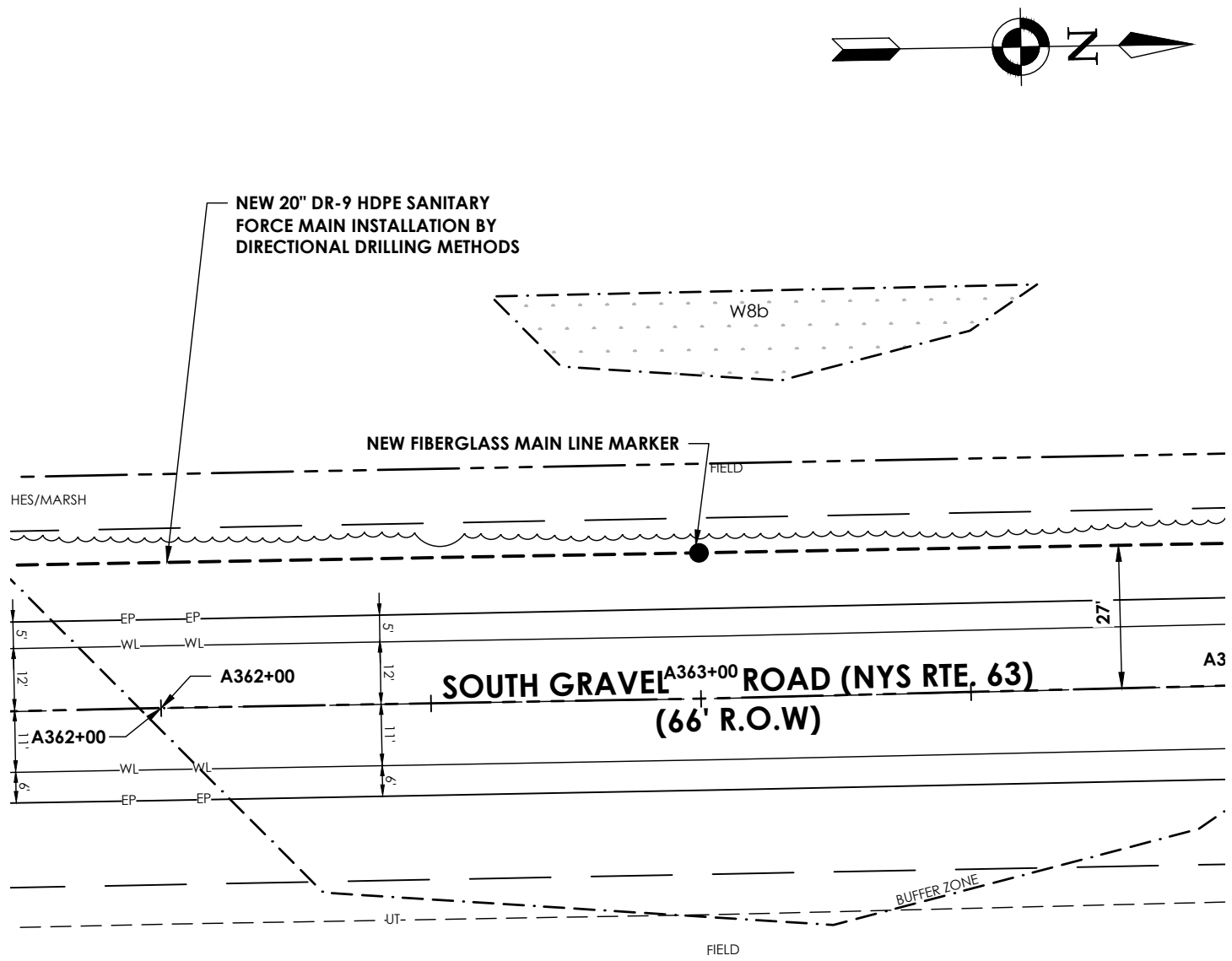
This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through three existing 24-inch CMP culverts at approximately Sta. A347+80 and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 15

SOUTH GRAVEL ROAD (STA. A363+00)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 15

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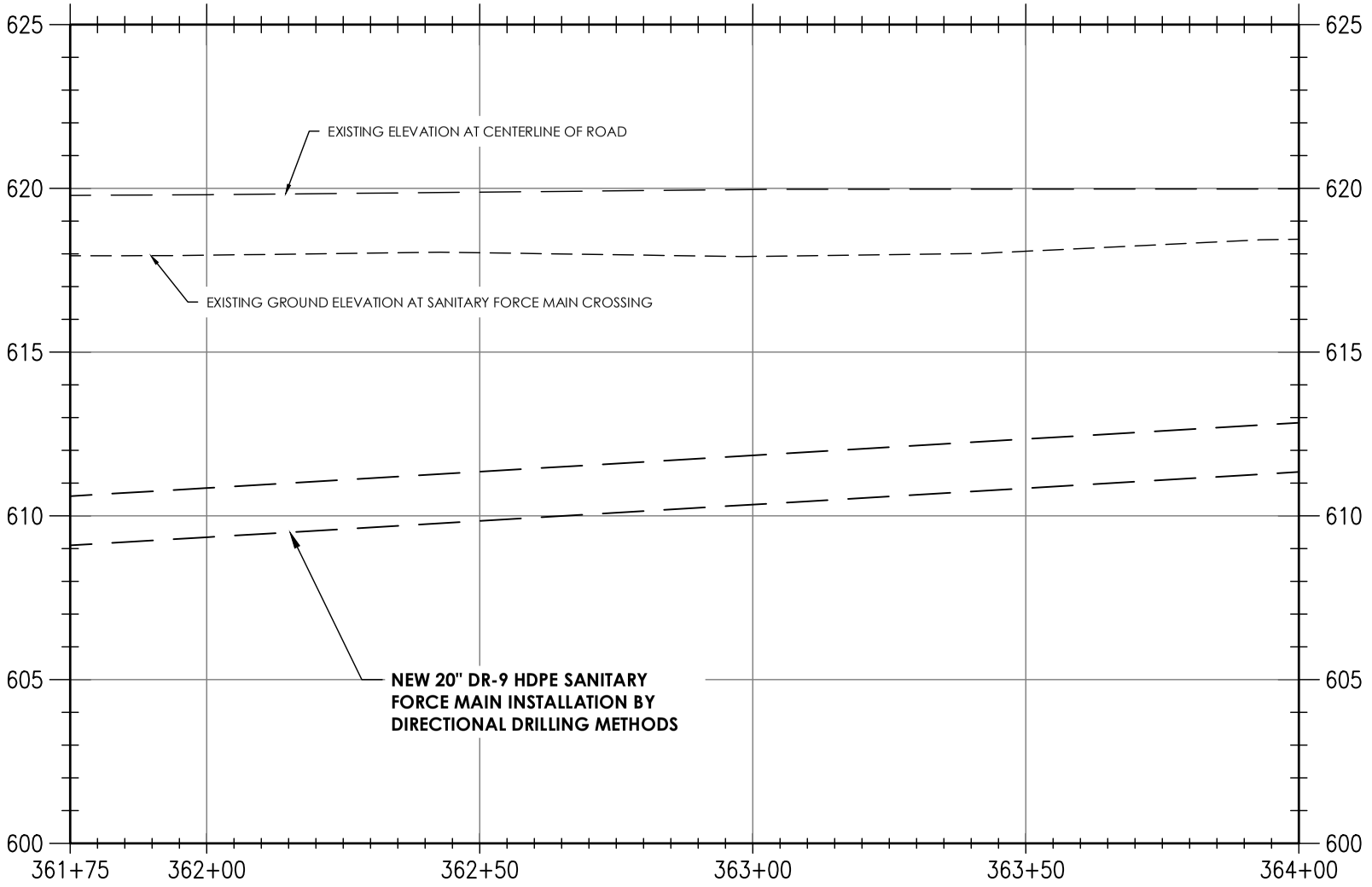
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 15 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:20 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 361+75 TO STA. 364+00

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 15

STREAM CROSSING NO. 15 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
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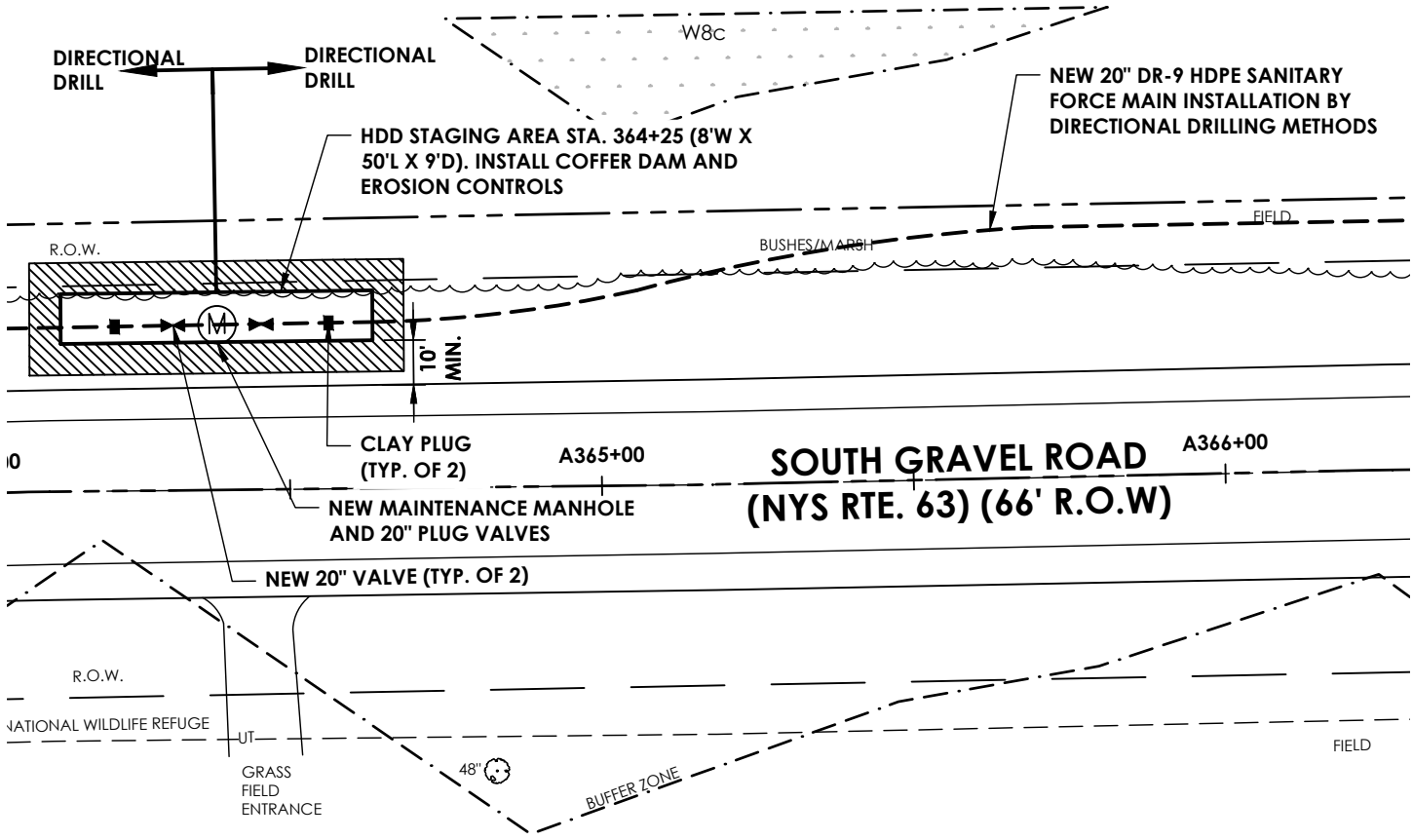
Date last plotted: 10/29/2020 12:20 PM
Plotted By: Nicole Cullen

EXHIBIT 16

SOUTH GRAVEL ROAD (STA. A365+00)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 16

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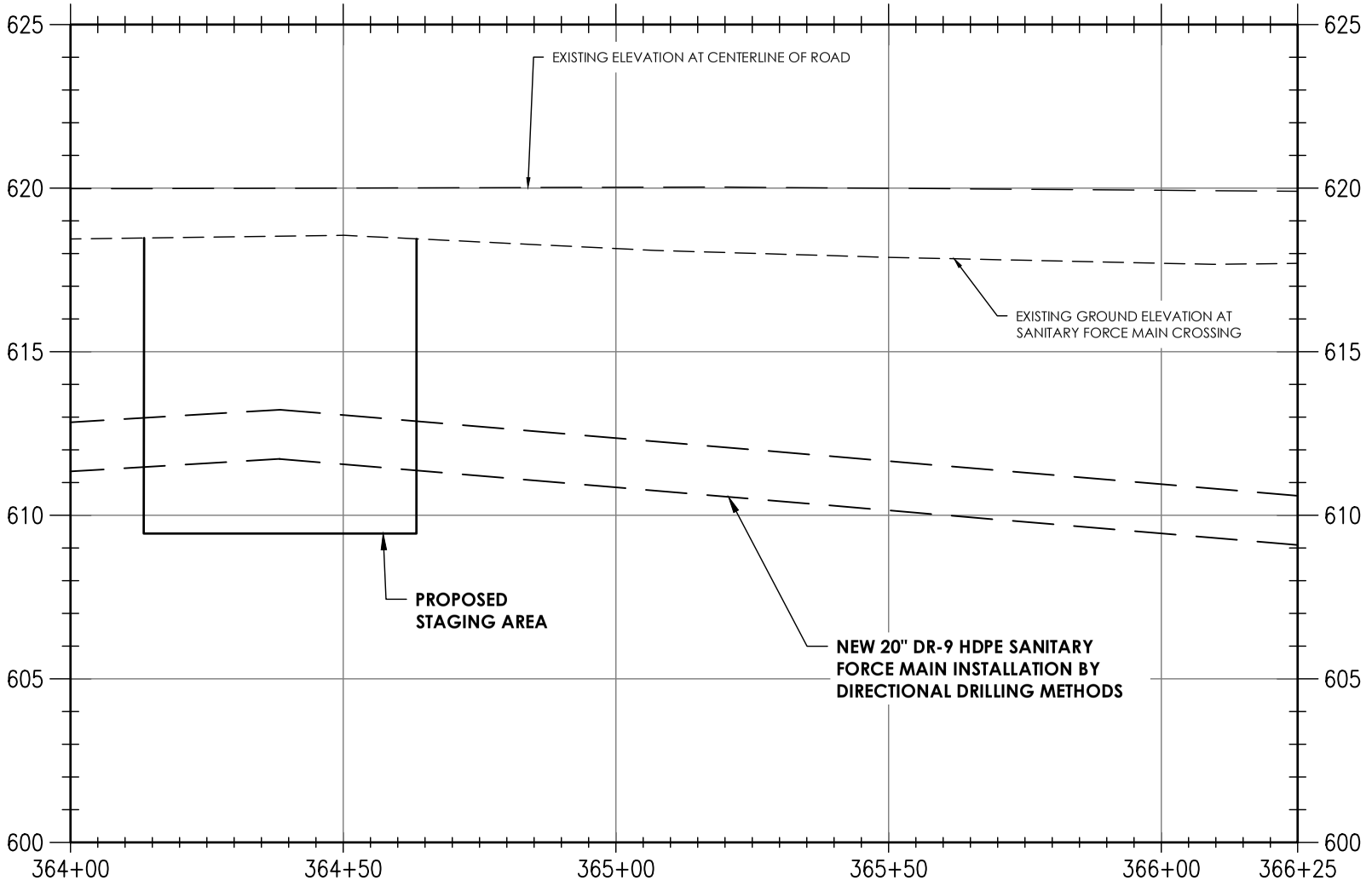
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 16 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:21 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 364+00 TO STA. 366+25

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 16

STREAM CROSSING NO. 16 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

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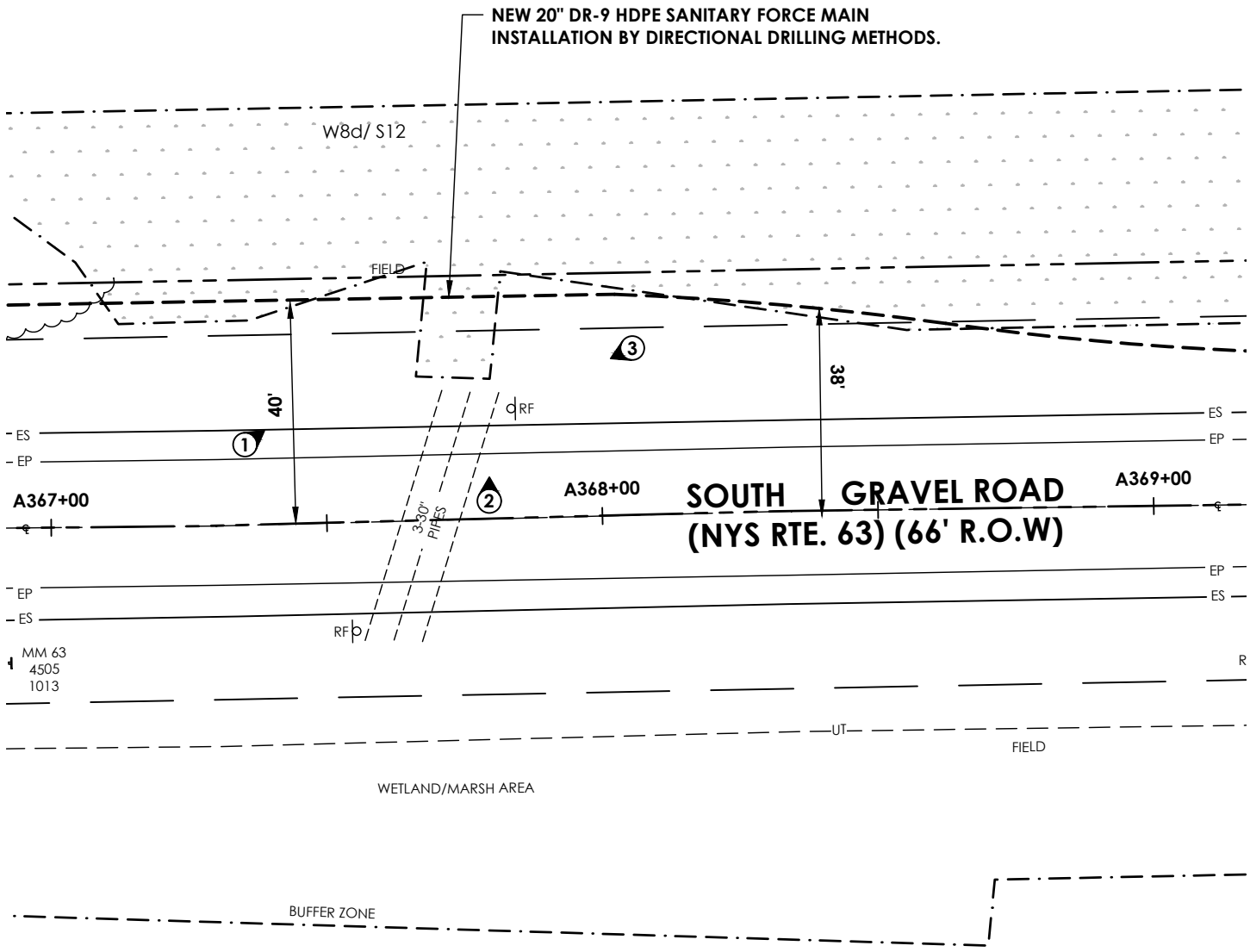
EXHIBIT 17

SOUTH GRAVEL ROAD (STA. A367+60)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 17

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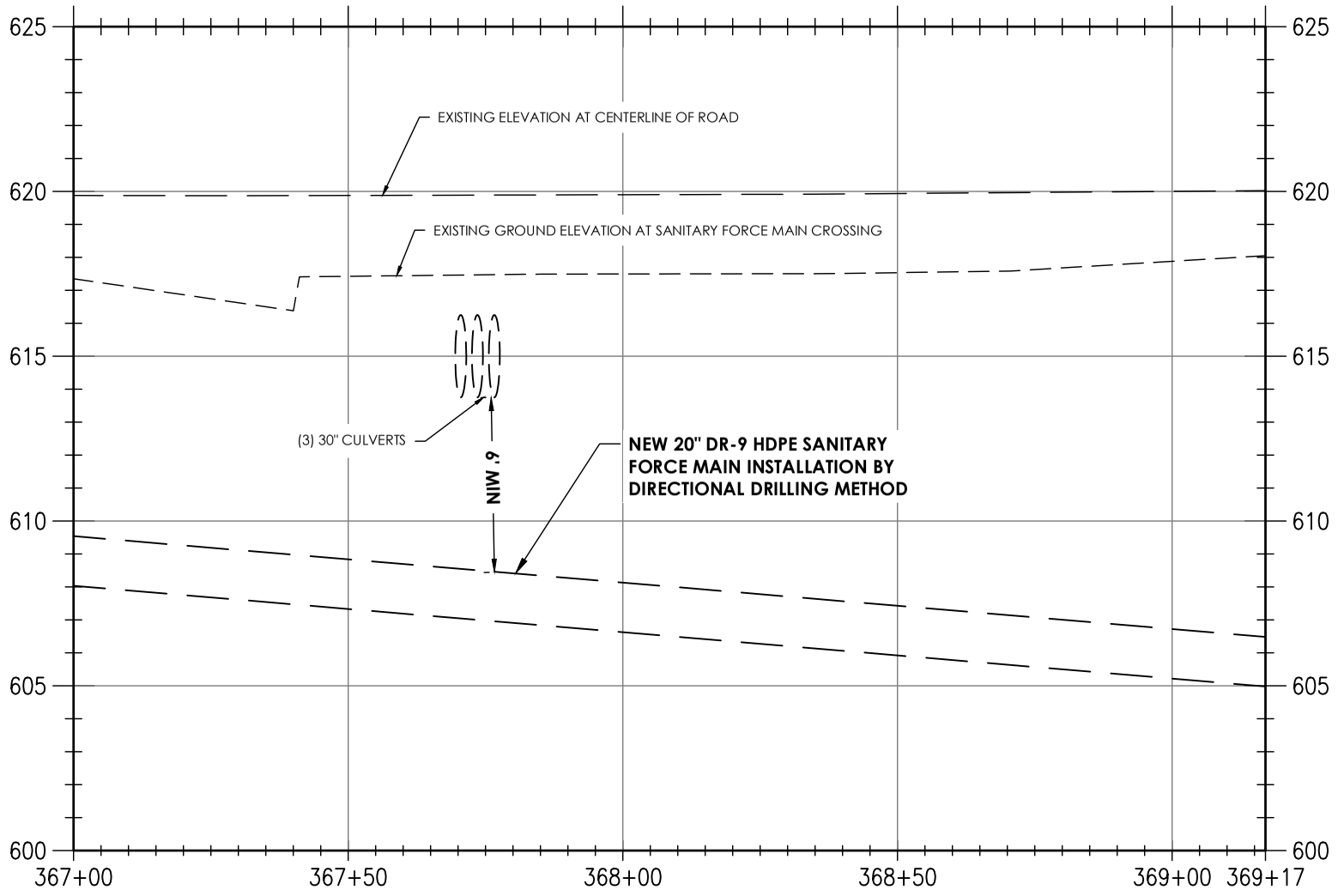
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 17 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:21 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 367+00 TO STA. 369+17

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 17

STREAM CROSSING NO. 17 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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Date last plotted: 10/29/2020 12:21 PM
Plotted By: Nicole Cullen

EXHIBIT 17- PHOTO 1

South Gravel Road Sta. A367+60

This section of sewer main will installed using directional drilling techniques a minimum of 6 feet below the existing 30-inch CMP culverts at approximately Sta. A367+60. The class C stream, which generally flows from east to west, crosses South Gravel Road through the existing culverts and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 17- PHOTO 2

South Gravel Road Sta. A367+60

This section of sewer main will installed using directional drilling techniques a minimum of 6 feet below the existing 30-inch CMP culverts at approximately Sta. A367+60. The class C stream, which generally flows from east to west, crosses South Gravel Road through the existing culverts and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 17- PHOTO 3

South Gravel Road Sta. A367+60

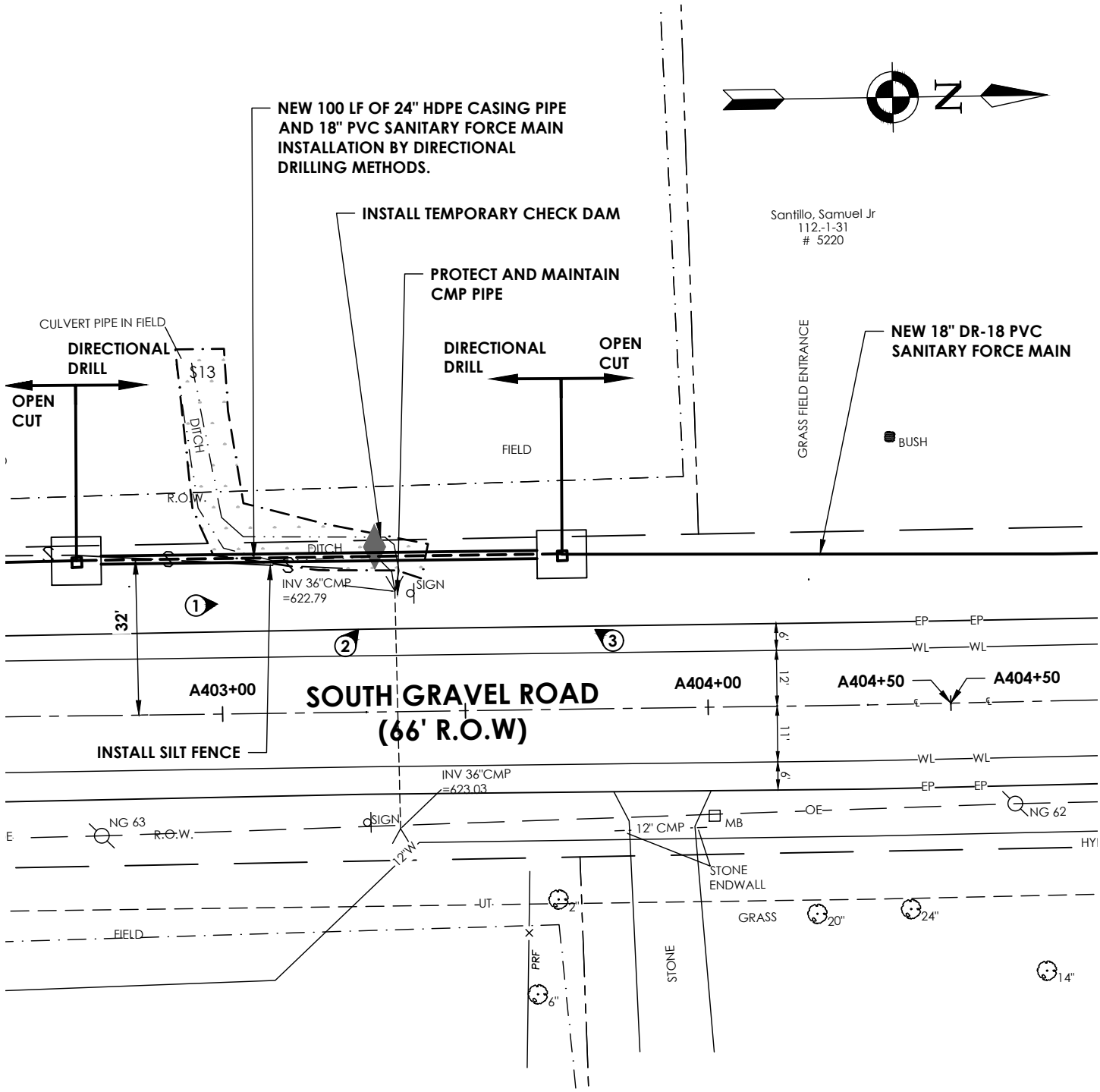
This section of sewer main will installed using directional drilling techniques a minimum of 6 feet below the existing 30-inch CMP culverts at approximately Sta. A367+60. The class C stream, which generally flows from east to west, crosses South Gravel Road through the existing culverts and ultimately discharges to state wetland A-5, Oak Orchard Creek and federal wetland PEM1KE. The proposed sewer main will cross the drainage way at approximately 40 feet west of the centerline of the road.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details to mitigate the wetland disturbance.

Project construction is scheduled to begin in August 2016.

EXHIBIT 18

SOUTH GRAVEL ROAD (STA. A403+35)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 18

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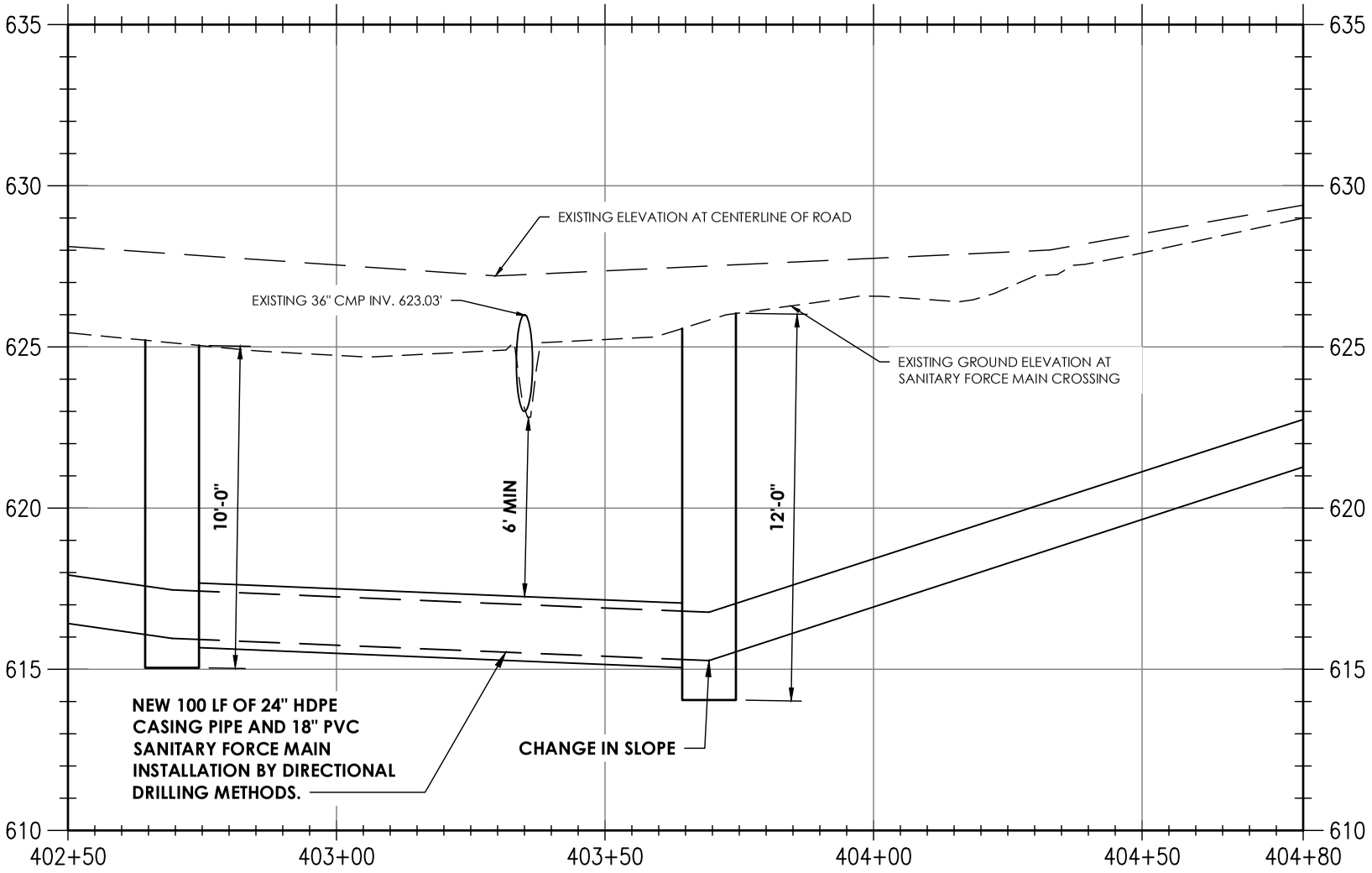
DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 18 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:22 PM
Plotted By: Nicole Cullen



SOUTH GRAVEL RD STA. 402+50 TO STA. 404+80

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 18

STREAM CROSSING NO. 18 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

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Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:22 PM
Plotted By: Nicole Cullen

EXHIBIT 18- PHOTO 1

South Gravel Road Sta. A403+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through an existing 36-inch CMP culvert at approximately Sta. A403+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road and will implement a 24-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box, and a horizontal drilling machine Erosion control measures will include a temporary check dam, silt fencing and a temporary coffer dam if installation is performed during actively flowing conditions.

EXHIBIT 18- PHOTO 2

South Gravel Road Sta. A403+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through an existing 36-inch CMP culvert at approximately Sta. A403+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road and will implement a 24-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box, and a horizontal drilling machine Erosion control measures will include a temporary check dam, silt fencing and a temporary coffer dam if installation is performed during actively flowing conditions.

EXHIBIT 18- PHOTO 3

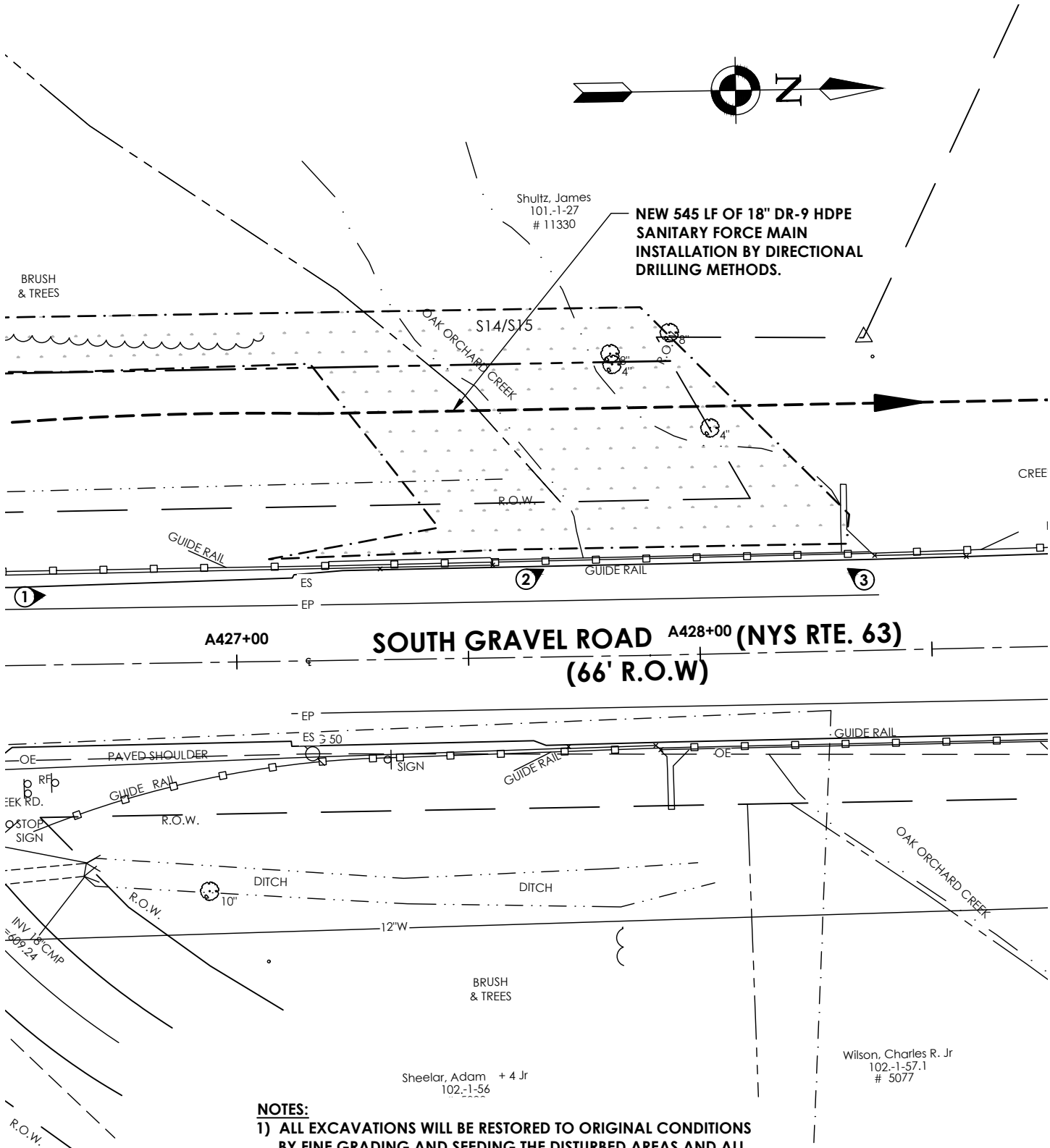
South Gravel Road Sta. A403+35

This section of sewer main will be installed using directional drilling techniques a minimum of 6 feet below the existing drainage way. The unnamed drainage way, which flows from east to west, crosses South Gravel Road through an existing 36-inch CMP culvert at approximately Sta. A403+35. Field investigation delineated this stream as intermittent with standing water. The proposed sewer main will cross the drainage way at approximately 32 feet west of the centerline of the road and will implement a 24-inch HDPE casing pipe. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe and a trench box, and a horizontal drilling machine Erosion control measures will include a temporary check dam, silt fencing and a temporary coffer dam if installation is performed during actively flowing conditions.

EXHIBIT 19

SOUTH GRAVEL ROAD (STA. A427+50)



NOTES:

1) **ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.**

2) **VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.**

LEGEND

LOCATION AND DIRECTION OF:

- (1) **PHOTO 1**
- (2) **PHOTO 2**
- (3) **PHOTO 3**

FIGURE 19

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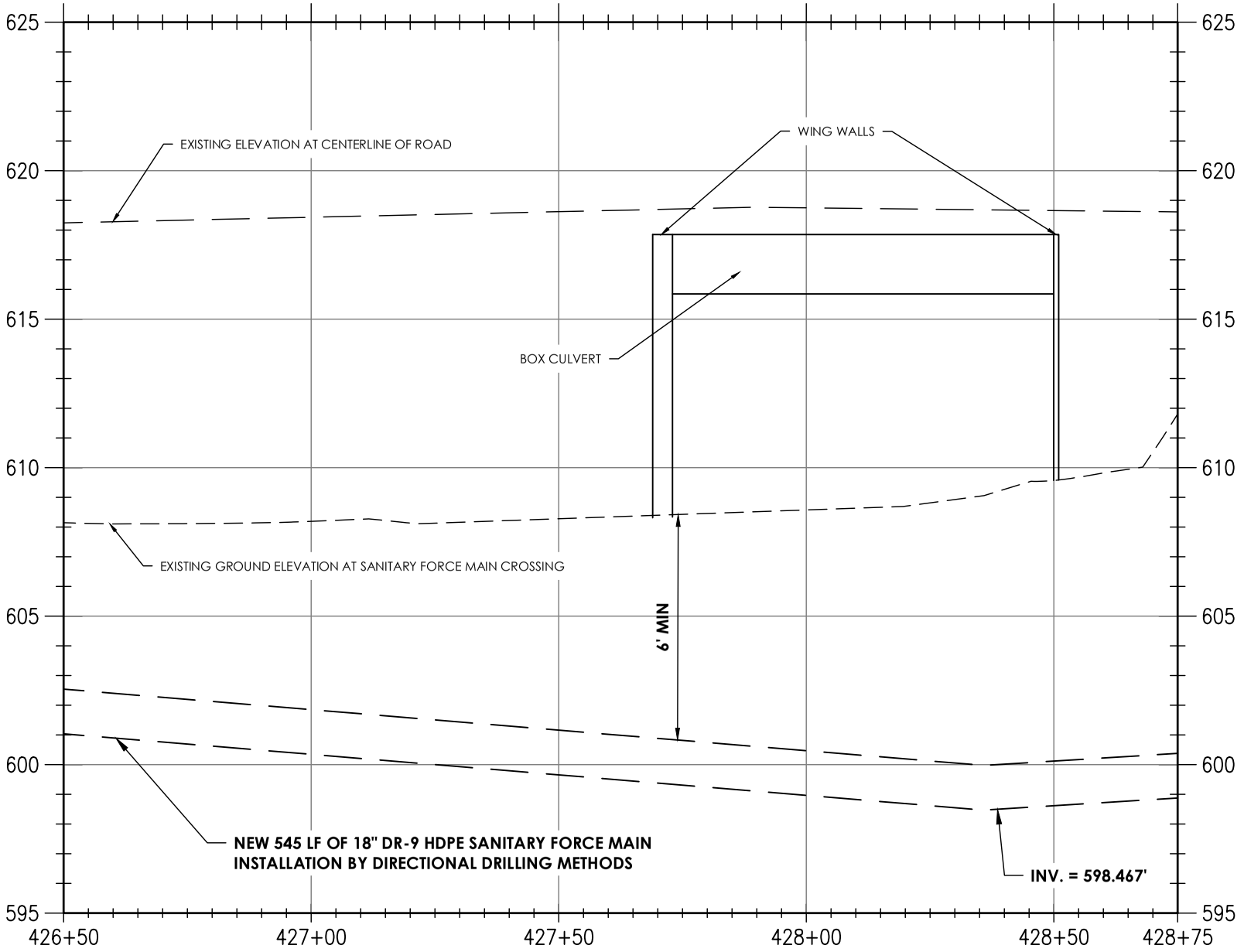
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 19 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Plotted By: Nicole Cullen
Date last plotted: 10/29/2020 12:22 PM
Date last accessed: 10/29/2020 8:42 AM
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Referenced Drawings: None



SOUTH GRAVEL RD STA. 426+50 TO STA. 428+75

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 19

STREAM CROSSING NO. 19 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
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SCALE:	1" = 30'
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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:22 PM
Plotted By: Nicole Cullen

EXHIBIT 19- PHOTO 1

South Gravel Road Sta. A427+50

This section of sewer main will be installed using directional drilling techniques under Federal Riverine and class C stream Oak Orchard Creek. This creek flows from west to east and crosses South Gravel Road under an existing 75-foot concrete bridge at approximately Sta. A427+50. The proposed sewer main will cross the creek at approximately 53 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 19- PHOTO 2

South Gravel Road Sta. A427+50

This section of sewer main will be installed using directional drilling techniques under Federal Riverine and class C stream Oak Orchard Creek. This creek flows from west to east and crosses South Gravel Road under an existing 75-foot concrete bridge at approximately Sta. A427+50. The proposed sewer main will cross the creek at approximately 53 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 19- PHOTO 3

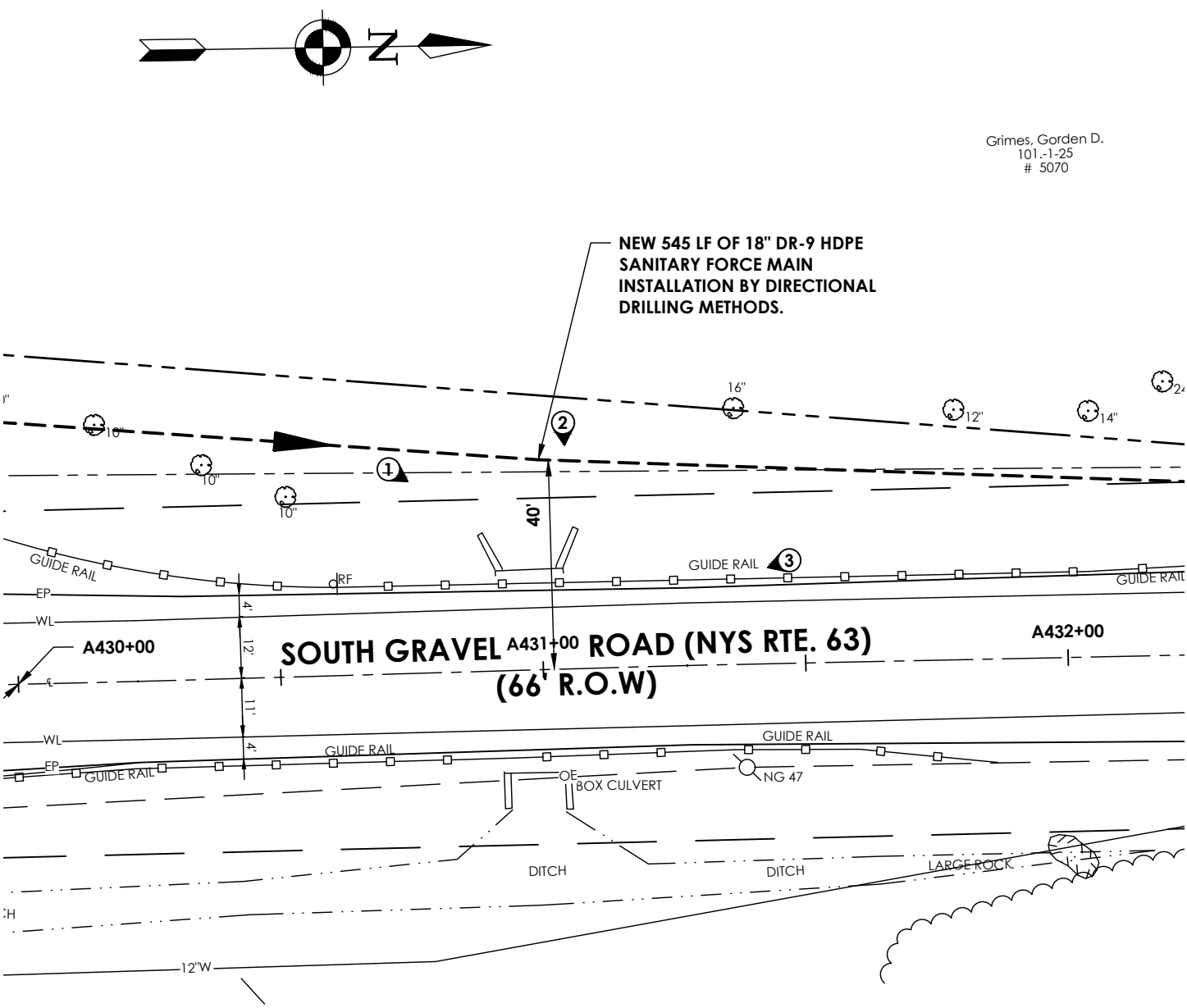
South Gravel Road Sta. A427+50

This section of sewer main will be installed using directional drilling techniques under Federal Riverine and class C stream Oak Orchard Creek. This creek flows from west to east and crosses South Gravel Road under an existing 75-foot concrete bridge at approximately Sta. A427+50. The proposed sewer main will cross the creek at approximately 53 feet west of the centerline of the road. The sewer main will be installed a minimum of 6 feet under Oak Orchard Creek. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary coffer dam and dewatering as shown in the details.

EXHIBIT 20

SOUTH GRAVEL ROAD (STA. A430+95)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 20

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
ARCHITECTURE ■ ENGINEERING ■ PLANNING

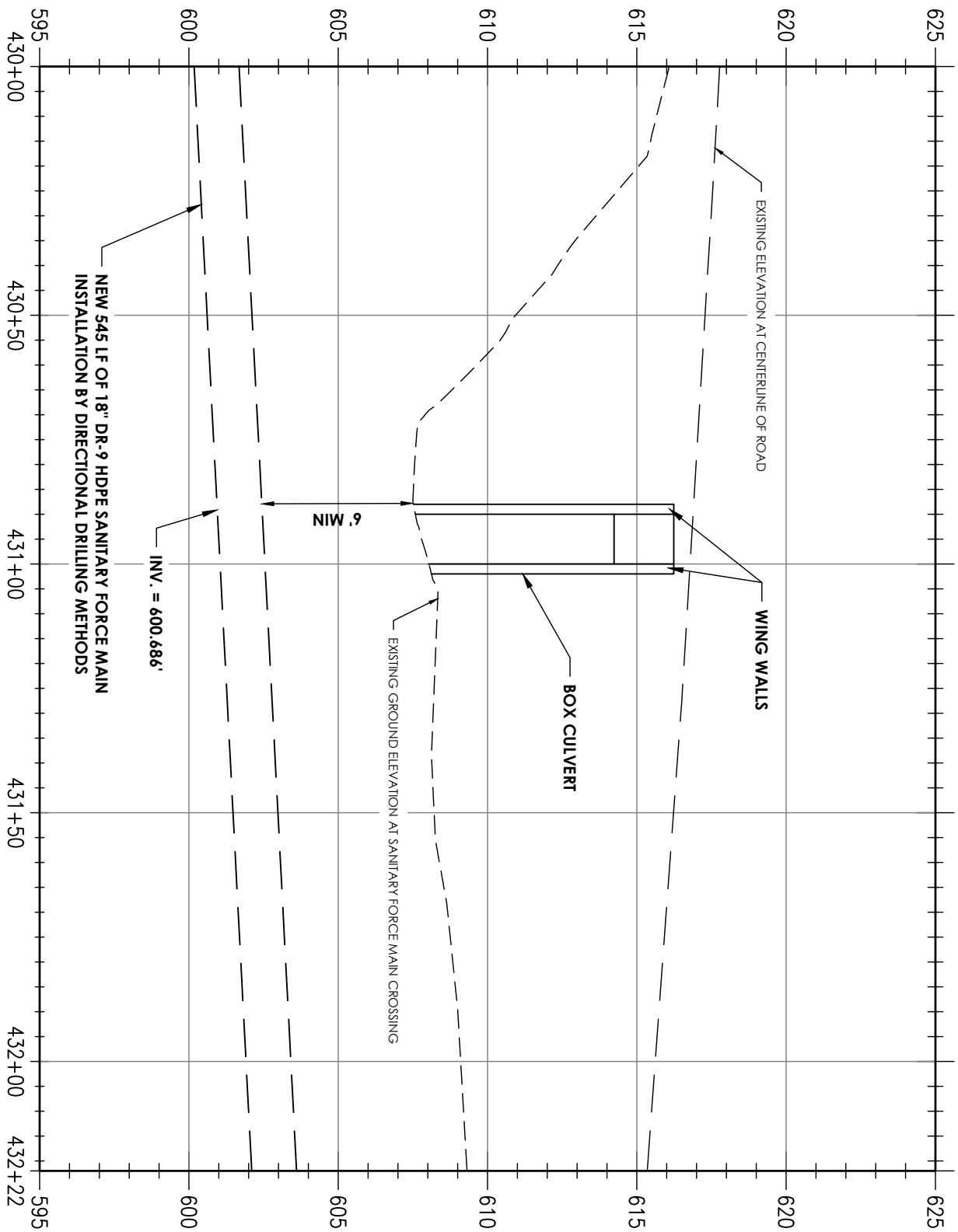
DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 20 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Plotted By: Nicole Cullen
Date last plotted: 10/29/2020 12:23 PM
Date last accessed: 10/29/2020 8:42 AM
Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg



SOUTH GRAVEL RD STA. 430+00 TO STA. 432+22

H. SCALE: 1" = 30'
V: SCALE: 1" = 5'

FIGURE 20

205 ST. PAUL STREET, SUITE 500
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PROJ. #:	14822.00

STREAM CROSSING NO. 20 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:23 PM
Plotted By: Nicole Cullen

EXHIBIT 20- PHOTO 1

South Gravel Road Sta. A430+95

This section of sewer main will be installed by directional drilling methods to the west of the existing culvert. Field investigation delineated this stream as an intermittent stream with standing water. The unnamed intermittent stream, which flows from west to east, crosses South Gravel Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A430+95. The proposed sewer main will cross the intermittent stream at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

EXHIBIT 20- PHOTO 2

South Gravel Road Sta. A430+95

This section of sewer main will be installed by directional drilling methods to the west of the existing culvert. Field investigation delineated this stream as an intermittent stream with standing water. The unnamed intermittent stream, which flows from west to east, crosses South Gravel Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A430+95. The proposed sewer main will cross the intermittent stream at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

EXHIBIT 20- PHOTO 3

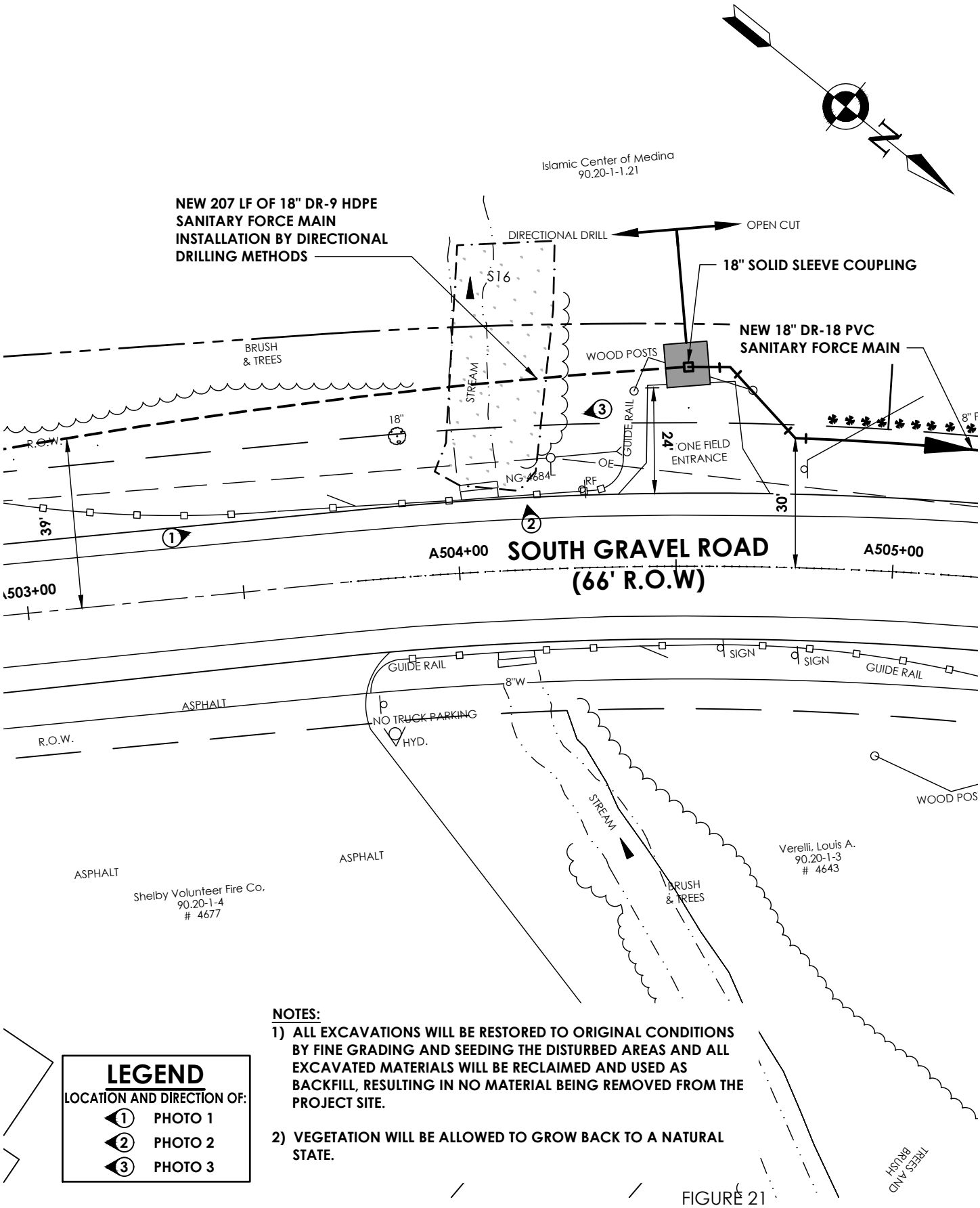
South Gravel Road Sta. A430+95

This section of sewer main will be installed by directional drilling methods to the west of the existing culvert. Field investigation delineated this stream as an intermittent stream with standing water. The unnamed intermittent stream, which flows from west to east, crosses South Gravel Road through an existing 6-foot by 10-foot box culvert at approximately Sta. A430+95. The proposed sewer main will cross the intermittent stream at approximately 40 feet west of the centerline of the road. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

EXHIBIT 21

SOUTH GRAVEL ROAD (STA. A504+05)



LEGEND

LOCATION AND DIRECTION OF:

- ① PHOTO 1
- ② PHOTO 2
- ③ PHOTO 3

NOTES:

1) ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.

2) VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.

FIGURE 21

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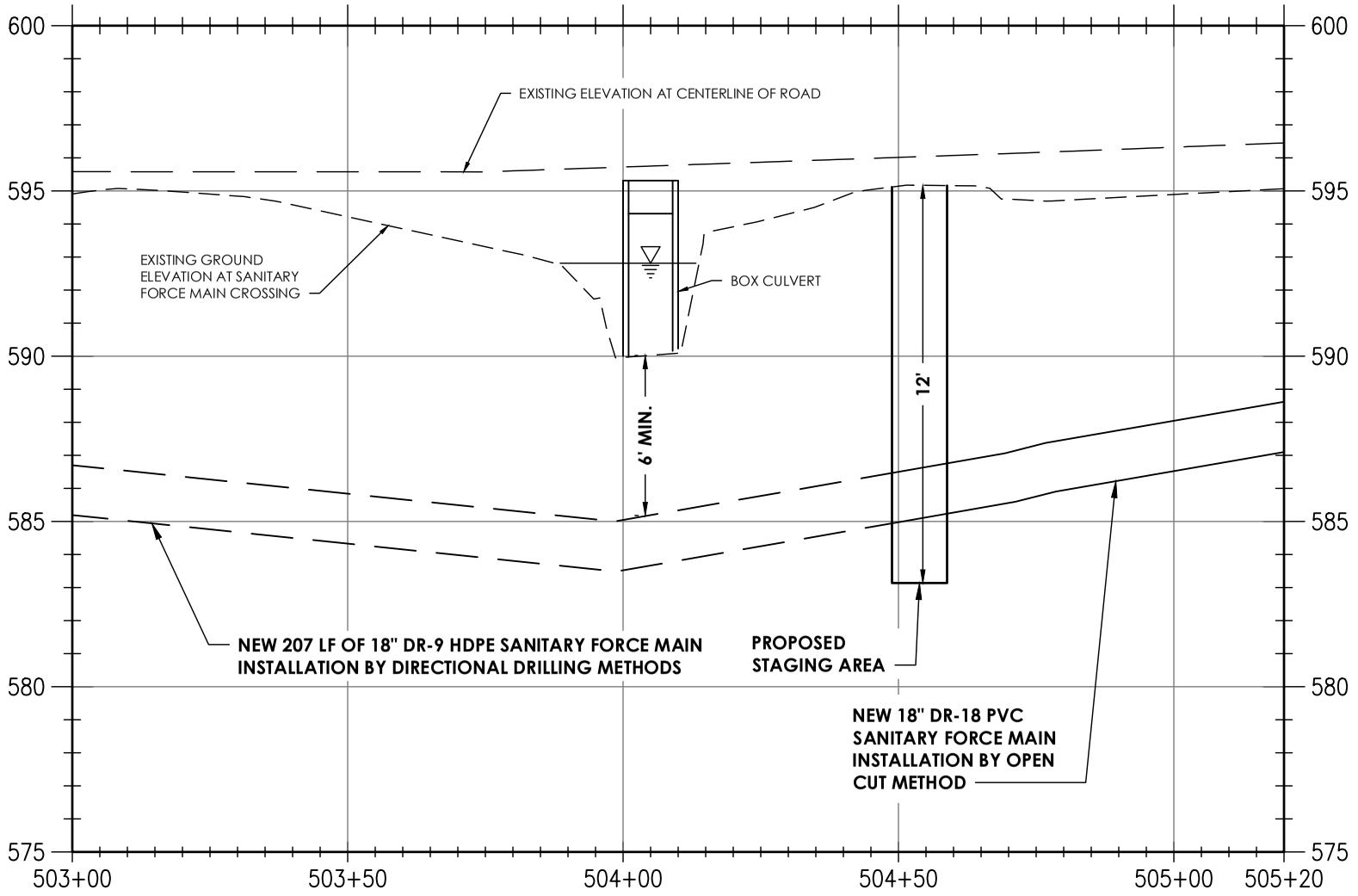
SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 21 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Plotted By: Nicole Cullen
Date last plotted: 10/29/2020 12:23 PM
Date last accessed: 10/29/2020 8:42 AM
Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg



SOUTH GRAVEL RD STA. 503+00 TO STA. 505+20

H. SCALE: 1" = **30'**
V: SCALE: 1" = 5'

FIGURE 21

STREAM CROSSING NO. 21 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

DATE:	4/27/20
DRAWN:	SCB
CHECKED:	ZLA
SCALE:	1" = 30'
PROJ. #:	14822.00

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Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 10/29/2020 12:23 PM
Plotted By: Nicole Cullen

EXHIBIT 21- PHOTO 1

South Gravel Road Sta. A504+05

This section of sewer main will be installed using directional drilling techniques under an unnamed class C stream. This stream flows from southwest to northeast and crosses South Gravel Road under an existing 6-foot by 10-foot concrete box culvert at approximately Sta. A504+05. The proposed sewer main will cross the stream approximately 42 feet southwest of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the unnamed class C stream. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

Project construction is scheduled to begin in August 2016. The project timetable will be coordinated by the Genesee County Economic Development Center.

EXHIBIT 21- PHOTO 2

South Gravel Road Sta. A504+05

This section of sewer main will be installed using directional drilling techniques under an unnamed class C stream. This stream flows from southwest to northeast and crosses South Gravel Road under an existing 6-foot by 10-foot concrete box culvert at approximately Sta. A504+05. The proposed sewer main will cross the stream approximately 42 feet southwest of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the unnamed class C stream. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

Project construction is scheduled to begin in August 2016. The project timetable will be coordinated by the Genesee County Economic Development Center.

EXHIBIT 21- PHOTO 3

South Gravel Road Sta. A504+05

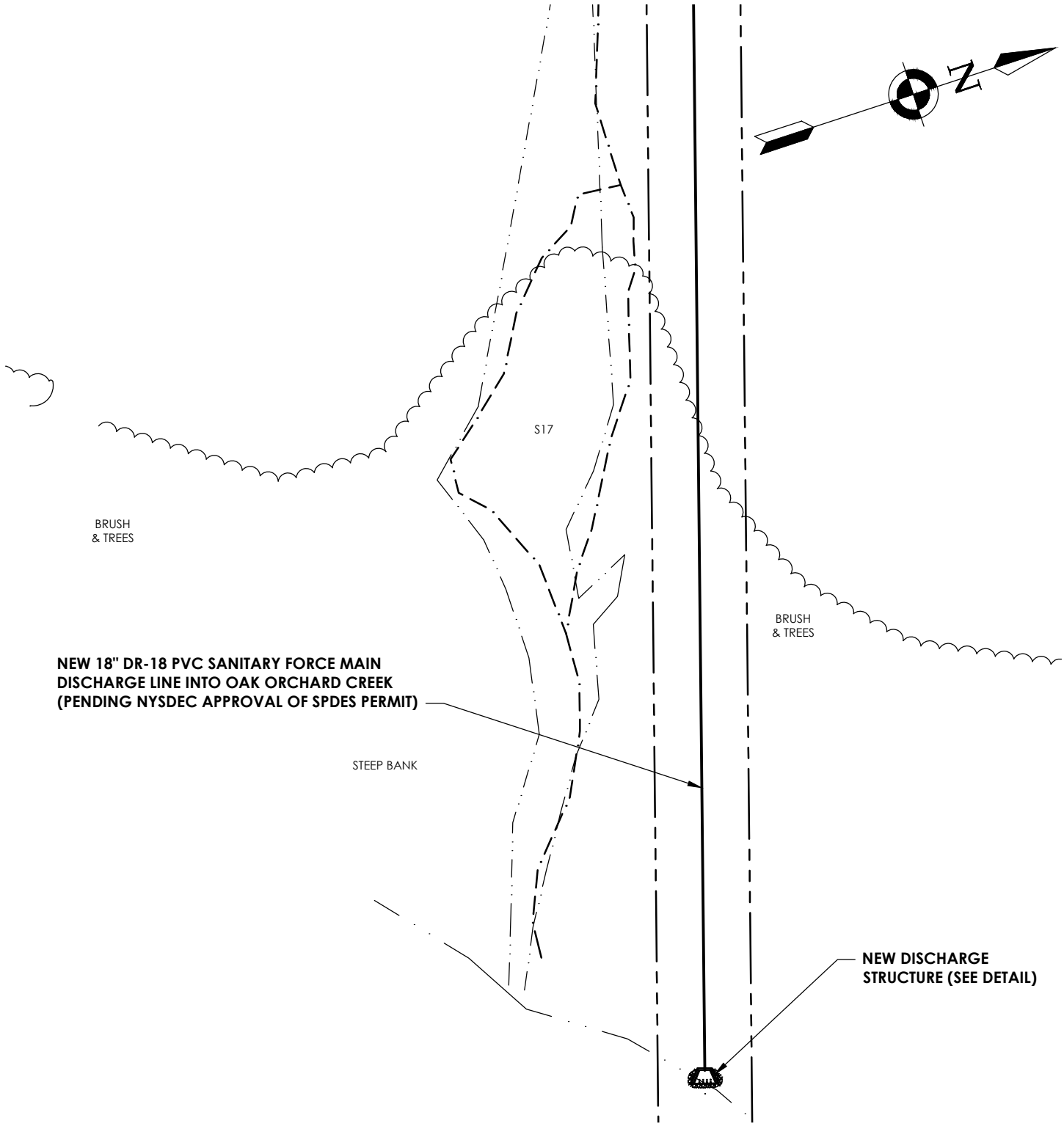
This section of sewer main will be installed using directional drilling techniques under an unnamed class C stream. This stream flows from southwest to northeast and crosses South Gravel Road under an existing 6-foot by 10-foot concrete box culvert at approximately Sta. A504+05. The proposed sewer main will cross the stream approximately 42 feet southwest of the centerline of the road. The sewer main will be installed a minimum of 6 feet under the unnamed class C stream. Dual HDD staging areas will be utilized for this directional drill. Any permanent structures damaged during construction shall be repaired or replaced in kind.

The equipment used for the sewer main installation will include an excavator or tractor backhoe, a trench box, and a horizontal drilling machine. Erosion controls utilized will include a temporary check dam, temporary coffer dam and dewatering as shown in the details.

Project construction is scheduled to begin in August 2016. The project timetable will be coordinated by the Genesee County Economic Development Center.

EXHIBIT 22

SOUTH GRAVEL ROAD (STA. A546+60)



NOTES:

1) **ALL EXCAVATIONS WILL BE RESTORED TO ORIGINAL CONDITIONS BY FINE GRADING AND SEEDING THE DISTURBED AREAS AND ALL EXCAVATED MATERIALS WILL BE RECLAIMED AND USED AS BACKFILL, RESULTING IN NO MATERIAL BEING REMOVED FROM THE PROJECT SITE.**

2) **VEGETATION WILL BE ALLOWED TO GROW BACK TO A NATURAL STATE.**

LEGEND

LOCATION AND DIRECTION OF:

- ◀1 **PHOTO 1**
- ◀2 **PHOTO 2**
- ◀3 **PHOTO 3**

FIGURE 22

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SCALE:	1" = 30'
PROJ. #:	14822.00

STREAM CROSSING NO. 22 PLAN

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg
Date last accessed: 10/29/2020 8:42 AM
Date last plotted: 11/2/2020 3:32 PM
Plotted By: Nicole Cullen

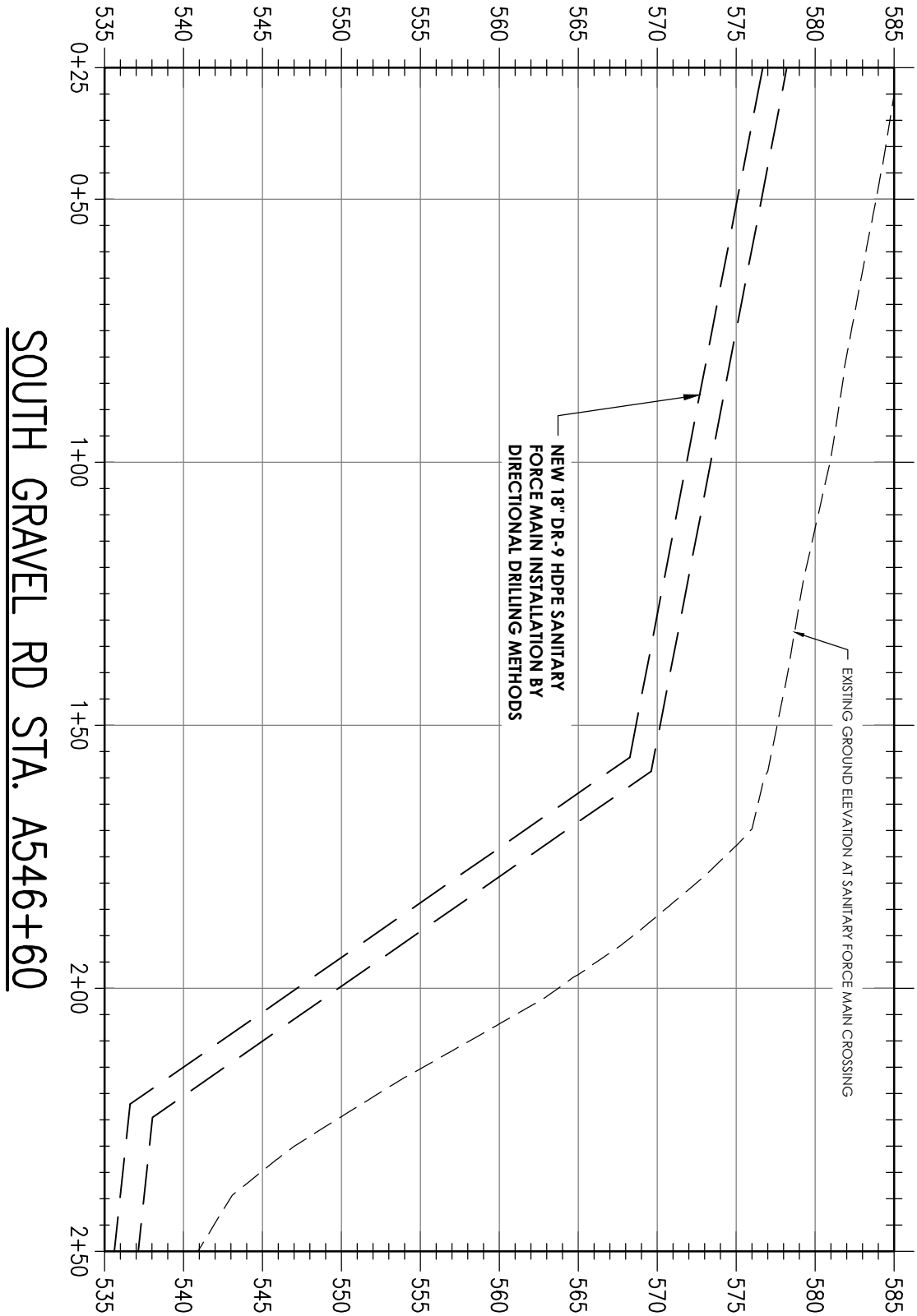

FIGURE 22

205 ST. PAUL STREET, SUITE 500
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PROJ. #:	14822.00

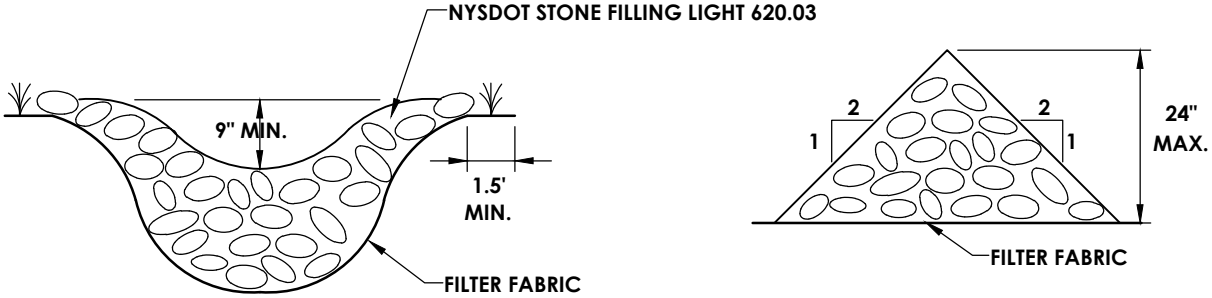
STREAM CROSSING NO. 22 PROFILE

WNY STAMP OFFSITE SEWER

TOWN OF ALABAMA AND TOWN OF SHELBY, NEW YORK STATE

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Figures\Stream Crossing Report\Plan and Profile.dwg Date last accessed: 10/29/2020 8:42 AM Date last plotted: 11/2/2020 3:32 PM Plotted By: Nicole Cullen

NOTES AND DETAILS



SPECIFICATIONS:

1. **STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.**
2. **EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.**
3. **PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.**
4. **ENSURE THAT THE CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.**

STONE CHECK DAM

N.T.S.

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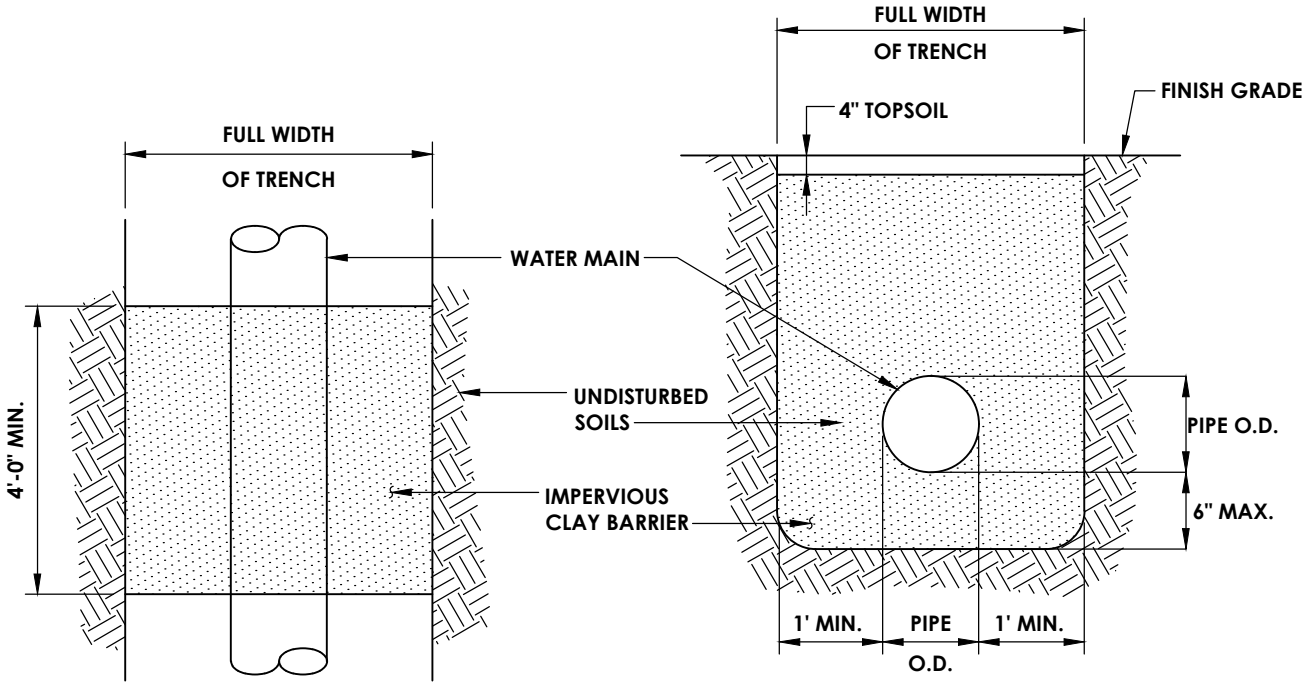
PROJ. #:	14822.00

CHECK DAM

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\Checkdam.dwg
Date last accessed: 3/26/2020 8:00 AM
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson



PLAN **SECTION**

NOTES:

1. CONTRACTOR SHALL INCLUDE COST FOR TRENCH PLUGS IN WATER MAIN PAYMENT ITEM.

CLAY PLUG

N.T.S.

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PROJ. #:	14822.00

CLAY PLUG

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\ClayPlug.dwg
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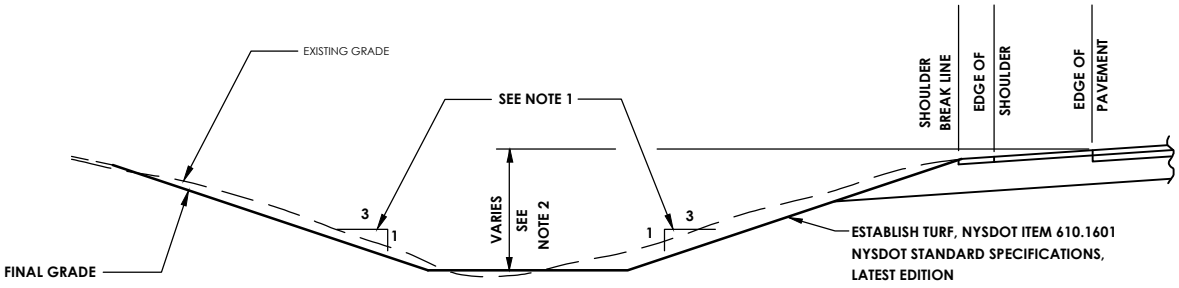
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson



NOTES:

1. SIDE SLOPES MAY VARY IN AREAS OF LIMITED R.O.W.
2. MAXIMUM DITCH DEPTH SHALL BE APPROXIMATELY 3 FEET

DITCH RESTORATION

N.T.S.

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PROJ. #:	14822.00

DITCH RESTORATION

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\DitchRestore.dwg
Date last accessed: 3/26/2020 8:14 AM
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES WILL BE STRICTLY ENFORCED BY THE ENGINEER. ANY EROSION CONTROL DEVICE WHICH IS DEEMED NECESSARY BY THE ENGINEER SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO CONTINUING WITH THE WATER MAIN INSTALLATION.

2. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT THE MIGRATION OF SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION PROCEDURES INTO NATURAL OR STRUCTURED DRAINAGE SYSTEMS, OR WATER BODIES.

3. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER BODIES (CREEKS, STREAMS, PONDS AND DITCHES) TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.

4. PERIODIC CLEANING AND INSPECTION OF TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES WILL BE NECESSARY. AFTER ANY STORM EVENT, MAINTENANCE SHALL BE REQUIRED.

5. IN THE EVENT THAT DEWATERING OPERATIONS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. PRIOR TO USE, THE SETTLING BASIN LOCATION AND DESIGN SHALL BE APPROVED BY THE ENGINEER.

6. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY. THEY SHALL BE INCLUDED IN THE BID PRICE OF THE WATER MAIN ITEMS.

7. THE CONTRACTOR WILL BE REQUIRED TO FOLLOW STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVELOPED FOR THE PROJECT.

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EROSION CONTROL NOTES

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\Erosion.dwg
Date last accessed: 3/26/2020 8:15 AM
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson

WETLAND CONSTRUCTION REQUIREMENTS:

1. THE STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE CONFINED TO WITHIN THE PROJECT CONSTRUCTION AREA AND/OR UPLAND (NON-WETLAND) AREA MORE THAN 100 FEET FROM THE WETLAND BOUNDARY.

2. ALL EXCAVATED, EXCESS, WASTE, SPOIL, OR DEBRIS MATERIAL FROM THE PROJECT SITE SHALL BE REMOVED TO A PERMISSIBLE, LEGAL UPLAND LOCATION AND NOT PLACED IN ANY PORTION OF THE PROTECTED WETLAND, 100 FOOT ADJACENT AREA, OR AREAS DEPICTED AS 100 YEAR FLOOD HAZARD AREAS. THESE MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL STATUTES, REGULATIONS, AND ORDINANCES.

3. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL CONTACT OR FLOW INTO ANY WETLANDS OR WATERS OF NEW YORK STATE NOR SHALL WASHINGS FROM READY MIXED CONCRETE TRUCKS, MIXERS OR OTHER DEVICES ENTER ANY WETLANDS OR WATERS. ONLY WATERTIGHT OR WATER PROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER IN FORMS.

4. VISIBLY TURBID DISCHARGES FROM LAND CLEARING, GRADING OR EXCAVATION ACTIVITIES, OR DEWATERING OPERATIONS SHALL NOT ENTER THE STREAM, NAVIGABLE WATER OR WETLAND; ANY SUCH DISCHARGE SHALL BE:
   A. RETAINED IN AN APPROPRIATELY MAINTAINED UPLAND SETTLING BASIN.
   B. FILTERED THROUGH CRUSHED STONE, SAND, HAY BALES, SILT SCREENING (MAXIMUM OPENING SIZE TO U.S. SIEVE NUMBER 20), ETC.
      OR
   C. DIRECTED TO GRASSY UPLAND AREA THAT IS A SUFFICIENT DISTANCE FROM THE STREAM TO PREVENT CHANGE OF TURBIDITY OF THE RECEIVING WETLAND.

5. ALL DREDGED OR EXCAVATED MATERIAL MUST BE EFFECTIVELY STABILIZED SO THAT IT CANNOT RE-ENTER ANY WATER BODY, STREAM OR WETLAND AREA.

6. SOIL WHICH HAS BEEN EXCAVATED DURING CONSTRUCTION AND NOT USED, SHALL BE EVENLY BACKFILLED INTO THE DISTURBED AREA AND NOT REMOVED FROM THE SITE. THE SOIL SHALL BE GRADED TO CONFORM TO THE TERRAIN AND ADJACENT LAND. AREAS SO DISTURBED SHALL BE SEEDED AND MULCHED WITHIN 5 DAYS WITH ANNUAL RYE GRASS. IF SEEDING FAILS TO PROVIDE ADEQUATE COVER BY THE PERMIT EXPIRATION DATE, THE AREA MUST BE RE-SEEDED TO THE AGENCY OF JURISDICTION'S SATISFACTION.

7. IF SEEDING OR PLANTING IS IMPRACTICAL DUE TO THE TIME OF YEAR, A TEMPORARY MULCH SHALL BE APPLIED WITHIN 5 DAYS OF FINAL GRADE COMPLETION. FINAL SEEDING SHALL BE PERFORMED AT THE EARLIEST OPPORTUNITY WHEN WEATHER CONDITIONS FAVOR GERMINATION AND GROWTH, BUT NO LATER THAN THE PERMIT EXPIRATION DATE.

8. CLEARING OF NATURAL VEGETATION SHALL BE LIMITED TO THE MATERIAL WHICH POSES A HAZARD OR HINDRANCE TO CONSTRUCTION.

9. IF SEWER MAIN IS TO BE INSTALLED THROUGH THE WETLAND PROPER, ALONG THE ROAD SHOULDER, OR BELOW GRADE OF THE WETLAND SURFACE, THEN CLAY TRENCH PLUGS MUST BE UTILIZED AT THE WETLAND BOUNDARIES, TO AVOID INADVERTENT DRAINAGE OF THE WETLAND.

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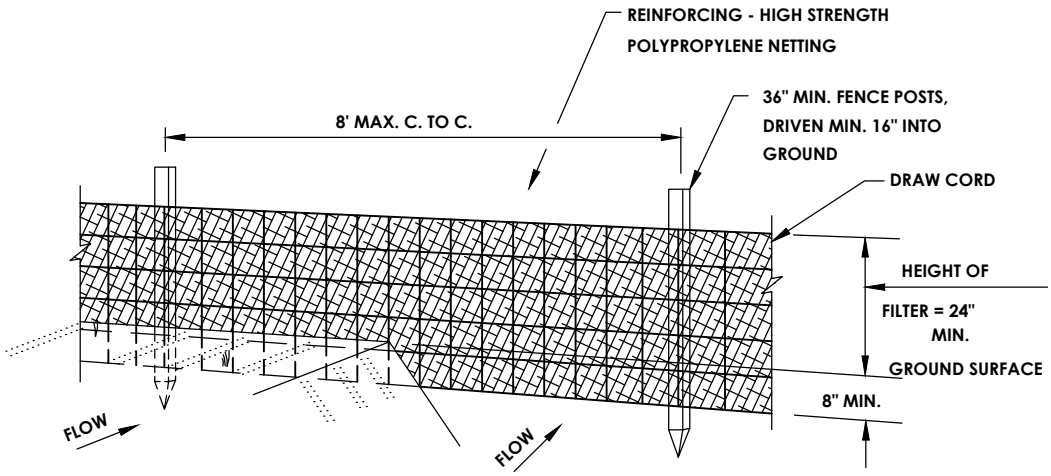
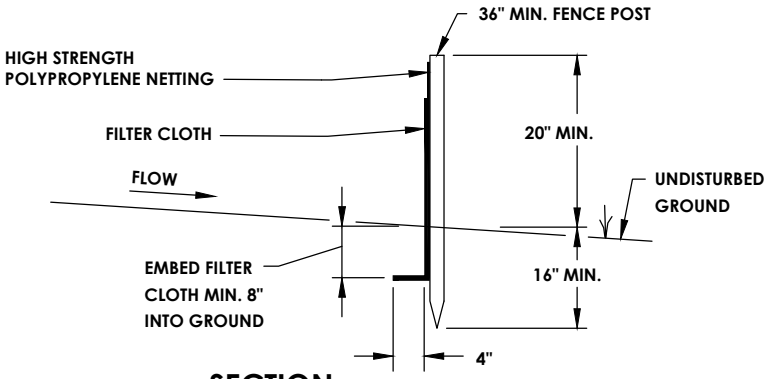
WETLAND CONSTRUCTION REQUIREMENTS

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\FedWetlandNotes.dwg
Date last accessed: 3/26/2020 8:16 AM
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson





SECTION

CONSTRUCTION NOTES FOR FABICATED SILT FENCE

1. SILT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POLYPROPYLENE NETTING WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. NETTING MAY BE INCORPORATED INTO FILTER CLOTH.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL (EITHER T OR U TYPE) OR 2" HARDWOOD.

FENCE: HIGH STRENGTH POLYPROPYLENE NETTING

FILTER CLOTH: CARTHAGE MILLS FX-11M, SKAPS INDUSTRIES GT-140, OR APPROVED EQUAL.

PREFABICATED UNIT: ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE

N.T.S.

205 ST. PAUL STREET, SUITE 500
ROCHESTER, NEW YORK 14604
TEL (800) 274-9000
FAX (585) 232-5836
CPLteam.com
ARCHITECTURE ■ ENGINEERING ■ PLANNING

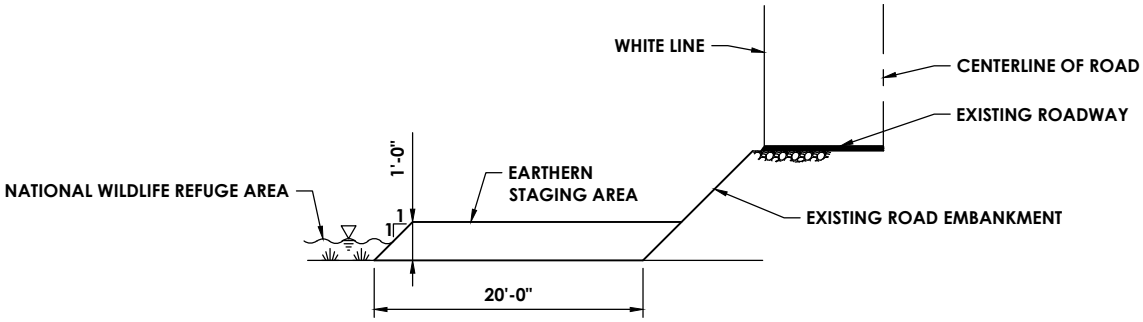
DATE:	3/26/20
DRAWN:	ZLA
CHECKED:	ARK
SCALE:	AS NOTED
PROJ. #:	14822.00

SILT FENCE

STAMP OFFSITE SEWER

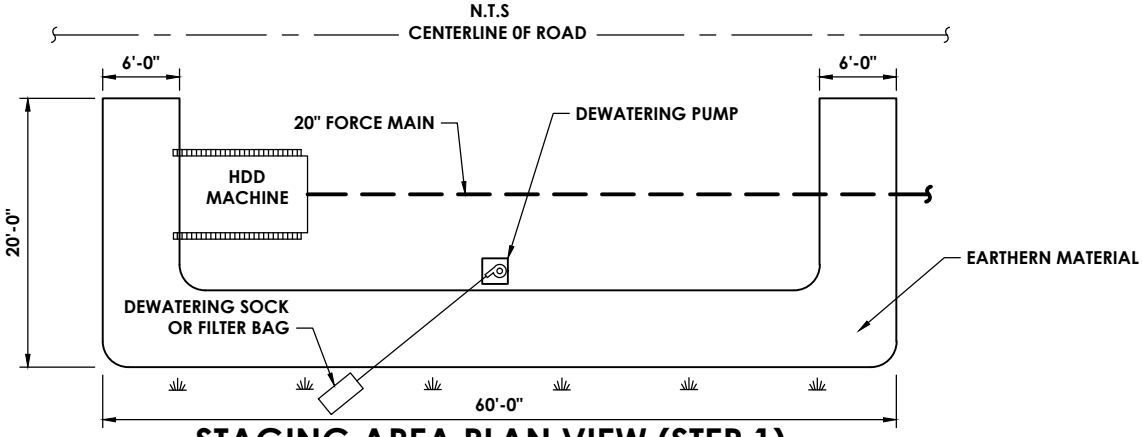
TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Plotted By: Zach Anderson
Date last plotted: 3/26/2020 8:18 AM
Date last accessed: 3/26/2020 8:16 AM
Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\Correspondence\Permitting\SWPPP\Details & Notes\Silt.dwg



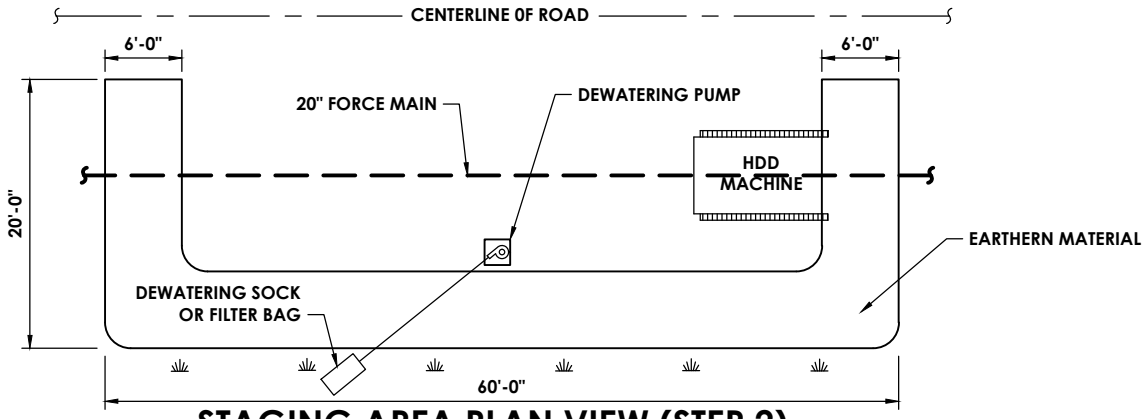
STAGING AREA SECTION VIEW

N.T.S



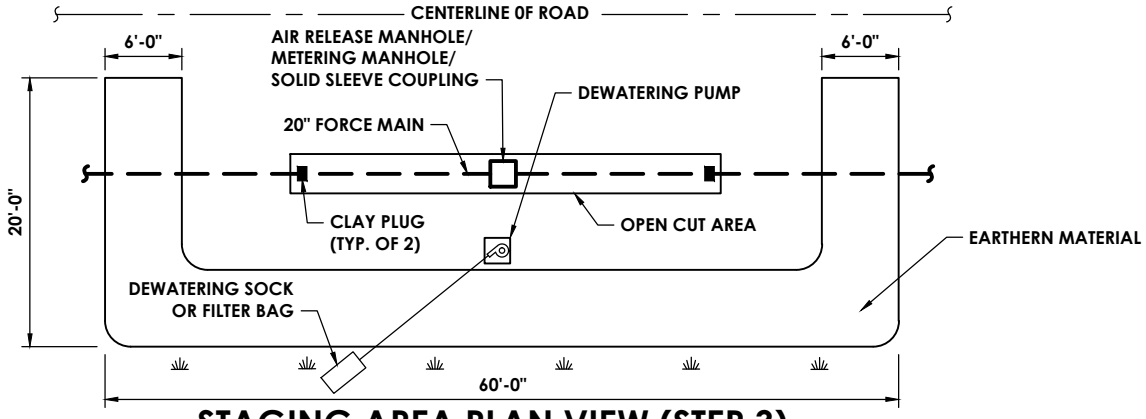
STAGING AREA PLAN VIEW (STEP 1)

N.T.S



STAGING AREA PLAN VIEW (STEP 2)

N.T.S



STAGING AREA PLAN VIEW (STEP 3)

N.T.S

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ROCHESTER, NEW YORK 14604
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DATE:	3/26/20
DRAWN:	ZLA
CHECKED:	ARK
SCALE:	AS NOTED
PROJ. #:	14822.00

HDD STAGING AREA DETAIL

STAMP OFFSITE SEWER

TOWNS OF ALABAMA & OAKFIELD, NEW YORK

Referenced Drawings: None
Drawing Name: J:\PROJECTS\GCEDC\STAMP Offsite Sewer\D Design\ACAD\Civil\Details\HDD STAGING AREA FIGURE.dwg
Date last accessed: 3/26/2020 8:17 AM
Date last plotted: 3/26/2020 8:18 AM
Plotted By: Zach Anderson

FRAC-OUT CONTINGENCY PLAN

FRAC-OUT CONTINGENCY PLAN
for Horizontal Directional Drilling
Beneath Protected Streams, State and Federal Regulated Wetlands, and the Iroquois National Wildlife Refuse along the
Genesee Gateway Local Development Corporation/
Genesee Gateway Economic Development Center
STAMP Offsite Sewer;
Genesee and Orleans Counties, New York

Introduction

Construction of the force main for the Genesee Gateway Economic Development Corporation STAMP Offsite Sewer project will include the use of trenchless excavation methods known as horizontal directional drilling ("HDD"). This widely used technique accomplishes the installation of buried utilities with minimal impact, by routing the utility under a sensitive feature (such as a stream, river or wetland). The HDD procedure uses bentonite slurry, a fine clay material as a drilling lubricant ("drilling mud"). Although bentonite is non-toxic, a potential environmental risk associated with conducting HDD under sensitive features occurs when bentonite is released to the surface during construction (sometimes referred to as "frac-out"). Benthic invertebrates, aquatic plants and fish and their eggs can be smothered by the fine particles if bentonite is discharged into a waterway. The objective of this frac-out contingency plan is to:

1. Minimize the potential for a frac-out associated with HDD activities;
2. Provide for the timely detection of frac-outs;
3. Ensure an organized, timely, and "minimum-impact" response in the event a frac-out and release of drilling mud occur

Measures to be deployed as part of the contingency plan include site inspection, proper training of the contractor and construction personnel, development of response procedures, provision of containment materials, and implementation of appropriate clean up procedures. These measures are described in detail below:

Site Personnel Responsibilities

The Contractor(s) has overall responsibility for implementing this Frac-out Contingency Plan ("FCP"). The Contractor(s) will be familiar with the aspects of the drilling activity, the contents of the FCP and the conditions of approval under which the activity is permitted to take place. The Contractor(s) will provide a copy of this plan to the appropriate construction personnel. The Contractor(s) will ensure that workers are properly trained and familiar with the necessary procedures for response to a frac-out, prior to initiation of drilling operations. The Contractor will provide the anticipated schedule of HDD operations around protected streams, rivers and wetlands (non-road, structure or railroad bores) to the site inspector responsible for environmental compliance monitoring ("Environmental Inspector" or "EI") prior to commencement of work.

The Contractor(s) will be notified promptly when a frac-out is detected. The New York State Department of Environmental Conservation (DEC), US Army Corps of Engineers (ACE) and/or Iroquois National Wildlife Refuge (INWR) will also be notified promptly, as described below, when a frac-out is detected during drilling under their corresponding wetlands or protected streams. The Contractor(s) and the EI will have the authority to stop work and commit the resources (personnel and equipment) necessary to implement this plan. The Contractor(s) and/or the Construction supervisor are responsible for promptly notifying the EI of the frac-out, and coordinating personnel to oversee proper clean-up and disposal of recovered material.

The EI will be on site, available during drilling operations to consult with HDD personnel and conduct inspections. The EI will inspect the drilling operation for the purpose of identifying signs of frac-out and will coordinate with the Construction supervisor to implement the appropriate measures to address a frac-out. Should a frac-out occur, the EI will evaluate the situation and will determine the appropriate level of response to the incident based on the guidelines contained in this FCP. To the extent practicable, the EI will consult with the appropriate agency (DEC, ACE, INWR) before determining the appropriate level of response to the incident.

During operation of a HDD crossing, pipeline construction personnel will monitor the pipeline drill path throughout the process. Field crews will provide timely notifications and responses to observed frac-outs in accordance with procedures identified in this FCP.

Training

Prior to the start of construction, the Construction supervisor and EI will verify that the construction field crew members receive the following site-specific training: review provisions of the FCP, equipment maintenance and site-specific permit and monitoring requirements; review location of sensitive environmental resources at the site and relevant permit conditions; review inspection procedures for frac-out prevention and be familiar with containment equipment and materials; review contractor/crew obligation to temporarily suspend forward progress of the drilling upon first evidence of the occurrence of a frac-out and to report any frac-outs to the EI; review operation of frac-out control equipment and the location of frac-out control materials, as necessary and appropriate; and review protocols for reporting observed frac-outs and communication with appropriate regulatory agencies.

Response

In the event a frac-out is observed during an HDD crossing, the frac-out will be assessed to determine the amount of slurry being released and potential for the frac-out to reach a surface water body. Response measures will vary based on the location of frac-out as described below.

Wetland Location

- Temporarily suspend forward drilling and promptly notify the Construction supervisor and EI.

- As soon as practicable after a frac-out event occurs in a state or federally-regulated wetland, notify the appropriate DEC or ACE Supervisor. As long as such notification is possible (e.g., there is cell phone service) and it does not interfere with response activities, the DEC or ACE shall be notified within two (2) hours of the Frac-Out event.
- The Construction supervisor and EI will evaluate wetland frac-outs and, in consultation with owner, DEC or ACE, where practicable, implement appropriate response and cleanup measures. Frac-out slurries in wetlands or within the 100 foot buffer will be removed to the extent practical and the area restored to its previous condition. Efforts to contain and recover slurry in wetlands may result in further disturbance by equipment and personnel, and possibly offset the benefit gained in removing the slurry. Because it is difficult to predict the effect of a frac-out and attempts to recover the slurry, frac-out within a wetland will be evaluated on a case-by-case basis, and an appropriate level of response will be implemented.
- If the amount of the frac-out slurry is too small to allow the practical physical collection from the affected area, it will be diluted with fresh water and/or the fluid will be allowed to dry and dissipate naturally.
- If the amount of the slurry exceeds that which can be contained with hand-placed barriers, small collection sumps (less than 5 cubic yards) may be used to remove the slurry.
- If the amount of the slurry exceeds that which can be contained and collected using small sumps, drilling operations will be suspended until the frac-out can be brought under control.
- The slurry will be stored in a temporary holding tank or other suitable structure, out of the wetland area and 100 foot buffer, for reuse or disposal.

In-Stream Locations

The HDD has been designed to minimize the potential for frac-out in streams and rivers. However, if an inadvertent frac-out is observed, the following measures will be implemented:

- Temporarily suspend forward progress and notify the Construction supervisor and EI. The EI will monitor the extent of the frac-out slurry plume.
- As soon as practicable after a frac-out event in a state protected stream, notify the appropriate DEC or ACE Supervisor. As long as such notification is possible (e.g., there is cell phone service) and it does not interfere with response activities, the DEC shall be notified within two (2) hours of the Frac-Out event.
- Initiate containment measures and recovery of the frac-out slurry as appropriate. Containment is not always feasible for in-stream frac-outs. However, conditions will be assessed as to whether hand-placed containment, recovery or other measures, such as silt curtains and turbidity barriers, would be effective and beneficial at the specific frac-out location.
- Evaluate the current drill profile (e.g., drill pressures, pump volume rates, drilling mud consistency) to identify means to prevent further frac-out events. Drilling operations will be suspended if the release poses a threat to human health and safety or the environment.
- If the fracture is mitigated and controlled, forward progress of the drilling may resume.

Iroquois National Wildlife Refuge Location

- Temporarily suspend forward drilling and promptly notify the Construction supervisor and EI.
- As soon as practicable after a frac-out event occurs in the refuge, notify the appropriate INWR Supervisor. As long as such notification is possible (e.g., there is cell phone service) and it does not interfere with response activities, the INWR shall be notified within two (2) hours of the Frac-Out event.
- The Construction supervisor and EI will evaluate wetland frac-outs and, in consultation with INWR, where practicable, implement appropriate response and cleanup measures. Frac-out slurries in the refuge will be removed to the extent practical and the area restored to its previous condition. Efforts to contain and recover slurry in the refuge may result in further disturbance by equipment and personnel, and possibly offset the benefit gained in removing the slurry. Because it is difficult to predict the effect of a frac-out and attempts to recover the slurry, frac-out within the refuge will be evaluated on a case-by-case basis, and an appropriate level of response will be implemented.
- If the amount of the frac-out slurry is too small to allow the practical physical collection from the affected area, it will be diluted with fresh water and/or the fluid will be allowed to dry and dissipate naturally.
- If the amount of the slurry exceeds that which can be contained with hand-placed barriers, small collection sumps (less than 5 cubic yards) may be used to remove the slurry.
- If the amount of the slurry exceeds that which can be contained and collected using small sumps, drilling operations will be suspended until the frac-out can be brought under control.
- The slurry will be stored in a temporary holding tank or other suitable structure, out of the refuge area, for reuse or disposal.

Containment Materials

At a minimum, the following containment, response, and clean-up equipment will be available at each HDD crossing location at the time such crossing occurs:

- straw bales;
- silt fence;
- plastic sheeting;
- turbidity barriers;
- shovels, pails;
- push brooms;
- squeegees;
- pumps and sufficient hose;
- mud storage tanks; and
- vacuum truck on 24-hour call

Clean Up and Restoration

Site-specific clean up measures will be developed by the EI and the Construction supervisor following a frac-out, in consultation with the appropriate regulatory agency where practicable. Restoration measures should be developed in consultation with appropriate regulatory agency prior to the site being restored. However, the following measures are considered appropriate.

- Drilling mud will be cleaned up by hand using hand shovels, buckets and soft bristled brooms as possible without causing damage to existing vegetation. Fresh water washes will be employed if deemed beneficial and feasible.

- Containment structures will be pumped out and the ground surface scraped to bare topsoil without causing undue loss of topsoil or ancillary damage to existing and adjacent vegetation. Material will be collected in containers for temporary storage prior to removal from the site.

Crossing Alternatives

If HDD proves to be unsuccessful, an alternative crossing method may be selected such as dewatering and open trenching (dry crossing method) for streams with low gradients and flow using a cofferdam and pump around construction method. This involves placing dams consisting of sandbags in the waterbody, upstream and downstream of the proposed trench before excavation and using pumps to transport the stream flow around the construction area.
Trenching with a dry crossing method may also be achieved by crossing intermittent stream channels when the channel is naturally dry.

Documentation

The Construction supervisor and EI will record the frac-out event in his or her daily log. The log will include the following: details of the frac-out incident, location and time of frac-out, the size of the impacted area, notifications made, summary of the response and the success of the clean up action.

STAMP WASTEWATER WETLAND AND STREAM IMPACT TABLE

STAMP Wastewater Wetland and Stream Impact Table				
Identifier	Project Area	Installation Method	Wetland/Stream Temporary Impact (SF)	Buffer Zone Temporary Impact (SF)
W-6 S-6	STAMP Wastewater	Open Cut	928	0
S-7	STAMP Wastewater	HDD	0	860
S-8a and 8b	STAMP Wastewater	HDD	0	696
S-16	STAMP Wastewater	HDD	0	0
S-14 S-15	STAMP Wastewater	HDD	0	0
W-7	STAMP Wastewater	HDD	0	0
S-13	STAMP Wastewater	HDD	0	0
W-8a S-11	STAMP Wastewater	HDD	0	800
W-8b W-8c	STAMP Wastewater	HDD	0	400
W-8d S-12	STAMP Wastewater	HDD	0	3386
W-9	STAMP Wastewater	HDD	0	0
S-10	STAMP Wastewater	HDD	0	0
W-10 S-9	STAMP Wastewater	HDD/Staging Areas	0	6401
S-17	STAMP Wastewater/Oak Orchard Discharge	HDD	0	0

Total = 13,471 SF

CC ENVIRONMENT & PLANNING

CC Environment & Planning

Sheila S. Hess
Principal Ecologist/CEO

June 24, 2020

Mr. Andrew Kosa
CPL
Via Email: akosa@CPLTeam.com

Re: STAMP Water Main and Wastewater Wetland and Stream Delineation Summary

Dear Andrew:

I have completed a field review of all of drainages, streams, and wetlands within the STAMP Water Main and Waste Water Area of Interest (AOI) located along approximately 16.8 miles of roads within the Towns of Alabama, Genesee County, NY, and Shelby, Orleans County, NY, including portions of Routes 63 and 77, along the sides of the roads indicated by the plan set provided. My review extended to all waters that are potentially regulated by state and federal agencies. The delineation was conducted in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1, and the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (v. 2.0), dated January 2012. Delineation tasks included review of onsite conditions, field delineation, and sub-meter GPS survey of delineation. Deliverables include this delineation summary letter, delineation maps (Attachment A), photographs and datasheets (Attachment B), and shapefiles of mapped resources (provided via email on 6-23-20).

Desktop Review Notes

There are nine federally-mapped wetlands/wetland complexes indicated by the National Wetland Indicator (NWI Mapper) within the AOI and three state-mapped wetlands. There are eleven mapped streams within the AOI, all of which flow toward larger streams and NWI wetlands. These resources are included on the delineation maps provided in Attachment A. There are no listed plant or animal species mapped within this area according to the U.S. Fish & Wildlife Service online consultation database.

Field Mapped Wetlands and Streams

All wetlands were visually inspected and delineated during a field visit conducted on May 14 and 15, 2020 by Sheila Hess, Principal Ecologist, CC Environment & Planning. Wetland and stream features within the project area that could meet jurisdictional requirements were mapped using a Juniper Geode sub-meter GPS. Edges of wetlands and streams greater than 5 feet across were mapped to ensure that any aquatic feature potentially regulated by state and/or federal agencies was included within polygons. Streams less than 5 feet across were mapped as lines and their average width within the AOI is provided in Table 1 below. Wetland and stream features mapped include any permanent, seasonal, or intermittent streams and their bed and bank within the high-water mark (HWM) and wetland features showing appropriate vegetation, hydrology, and soils. Field investigation included inspection of floodplain and riparian areas associated with a stream or wetland. Delineation flags were hung in the field with the number of the waypoint (WPT) indicated.

Ten wetlands and sixteen streams and drainages were mapped within the AOI (see delineation Figure 1, the overview map and Figures 2-15 in Attachment A and photographic documentation and datasheets in Attachment B). Tables 1 below provides a description of each feature mapped and indicates in the Notes column if it is within the water main or wastewater project area. All mapped wetlands and streams require a jurisdictional determination to confirm their regulatory status. Mapped wetland and stream features were provided to CPL digitally as georeferenced shapefiles for inclusion within the project survey database and to facilitate updated design, plan sheets, and impact calculations.

Table 1. STAMP Water/Wastewater Wetland Delineation Stream Datasheet

Identifier	GPS Points	Flow Reg*/Dir	Description/Classification/ Connectivity	Est Bank Width	Notes
W-1	1-40	NA	PEM/Open Water	NA	Water Main Project.
W-2	41-100	NA	PEM/PSS/Open Water - Part of S-1	NA	Water Main Project.
S-1	48-49	P/N	Silt/Muck, straight, wetland	25’	Empties into Wetland 2. Water Main Project.
S-2	59-60	P/N	Vegetative, straight, wetland	20’	Flows in Wetland 2. Water Main Project.
S-3	73-76	P/N	Vegetative, straight, wetland	20’	Flows in Wetland 2. Water Main Project.
S-4	101-103	I/N	Vegetative, straight, wetland	4’	Flows in Wetland 3. Water Main Project.
W-3	101-108	NA	PEM/Open Water	NA	Water Main Project.
W-4	109-118	NA	PEM/scrub shrub	NA	Water Main Project.
S-5	109-115	I/NE	Vegetative, straight, wetland	4’	With Wetland 4. Water Main Project.
S-6	127-	P/E then N	Gravel, straight, wetland	4’	From Wetland 6. Wastewater Project.
W-5	119-126	NA	PEM/scrub	NA	Wastewater Project.
W-6	130-132	NA	PEM/Phrag Marsh	NA	Wastewater Project.
S-7	133-137	I/E	Silt, straight, drains from wetland	15’	Wastewater Project.
S-8a and 8b	NA		See Alabama WD No. 3 data		Wastewater Project.
S-16	138-143	P/NE	Silt, straight, oak orchard	25’-30’	Wastewater Project.
S-15	144-150	P/NE	Rock (Silt), moderate	40’	Oak Orchard Creek. Wastewater Project.
W-7	155-159	NA	PFO		Wastewater Project.
S-14	151-154	E/N	Silt, straight, drains from wetland into oak orchard	2’-4’	Drains from Wetland 7. Wastewater Project.

Table 1. STAMP Water/Wastewater Wetland Delineation Stream Datasheet					
Identifier	**GPS Points**	**Flow Reg*/Dir**	**Description/Classification/ Connectivity**	**Est Bank Width**	**Notes**
S-13	160-170	E/W	Vegetative, sinuous	4’	Flows into wetland. Wastewater Project.
W-8	171-208	NA	INWR - PEM, Reed Canary		Wastewater Project.
S-12	177-180	I/W	Vegetative, straight, yes	8’-10’	Flows into Wetland 8. Wastewater Project.
S-11	197-201	I/W	Vegetative, straight, yes	15’-20’	Connects to Wetland 8. Wastewater Project.
W-9	209-218	NA	PEM	NA	Wastewater Project.
S-10	219-227	E/W	Vegetative, straight, flows into wetland		Wastewater Project.
W-10	228-240	NA	INWR – PFO, Open Water	NA	Wastewater Project.
S-9	228-231	P/E	Silt, sinuous, flows wetland-10		Oak Orchard Creek. Wastewater Project.

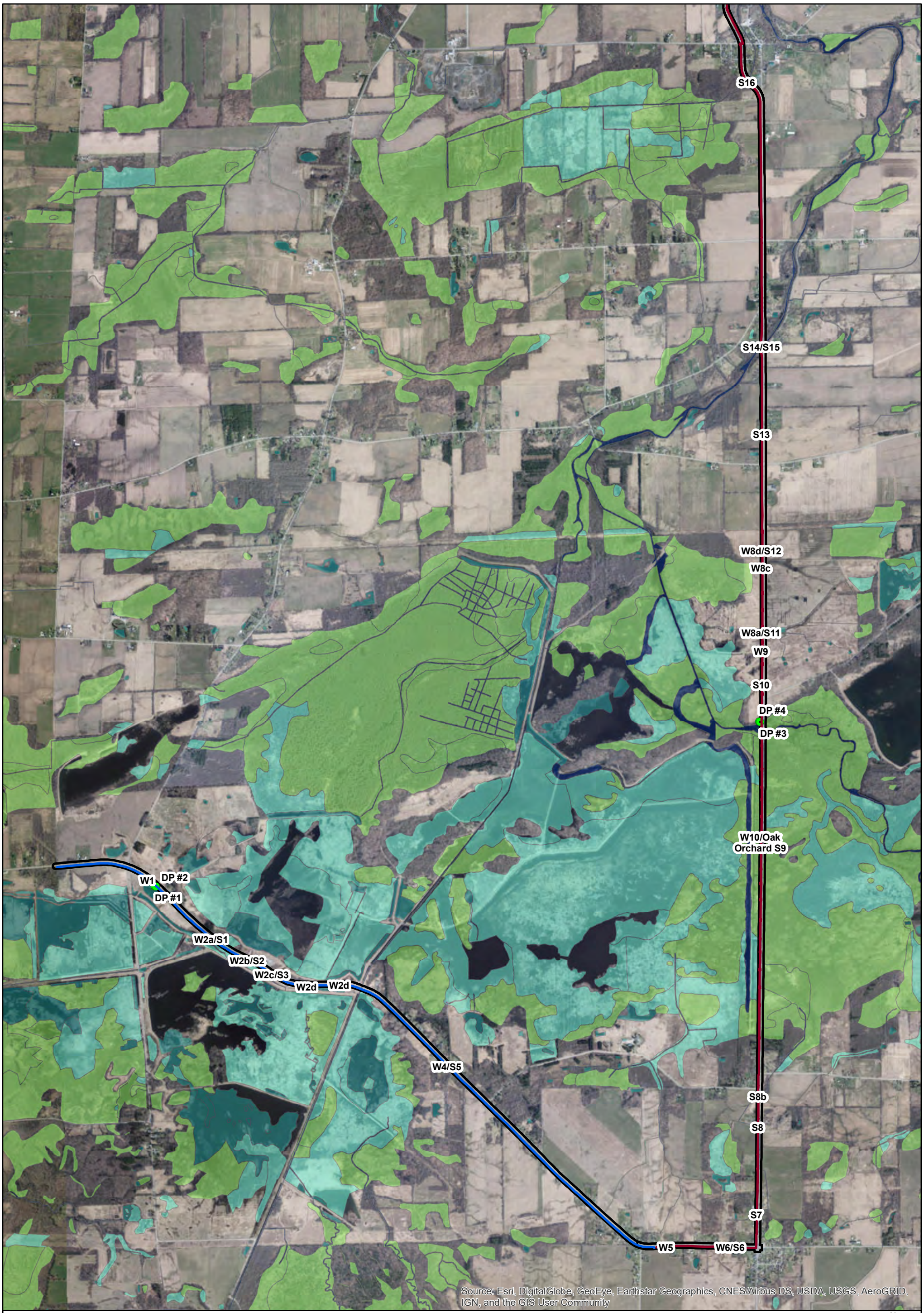
Please contact me if you have any questions about the delineation and summary. If you require additional information, jurisdictional determination, or assistance with impact avoidance, minimization, and permitting please let me know.

Sincerely,

Sheila S. Hess, Principal Ecologist
CEO CC Environment & Planning

Attachment A – Delineation Map and Figures
Attachment B – Photographs and Datasheets

Attachment A



Wetland and Stream Delineation Overview

STAMP Water Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

- Data Point
- Wetland/Stream
- Proposed Water Main
- Proposed Wastewater Main
- Water Main AOI
- Wastewater AOI

NWI Wetlands

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Figure 1

DP #1
W1
DP #2

0 0.0225 0.045 0.09 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Data Point
Wetland/Stream
Proposed Water Main
Water Main AOI

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 2

W2a/S1

W2b/S2

W2c/S3

0 0.04 0.08 0.16 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Water Main
Water Main AOI

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 3

W2d

W2d W2d W2d

W3/S4

0 0.0375 0.075 0.15 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

Wetland/Stream
Proposed Water Main
Water Main AOI

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 4

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream

Proposed Water Main

Water Main AOI

Figure 5

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream

Proposed Wastewater Main

Wastewater AOI

Figure 6

W6/S6

W6/S6

0 0.005 0.01 0.02 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

Wetland/Stream

Proposed Wastewater Main

Wastewater AOI

Figure 7

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

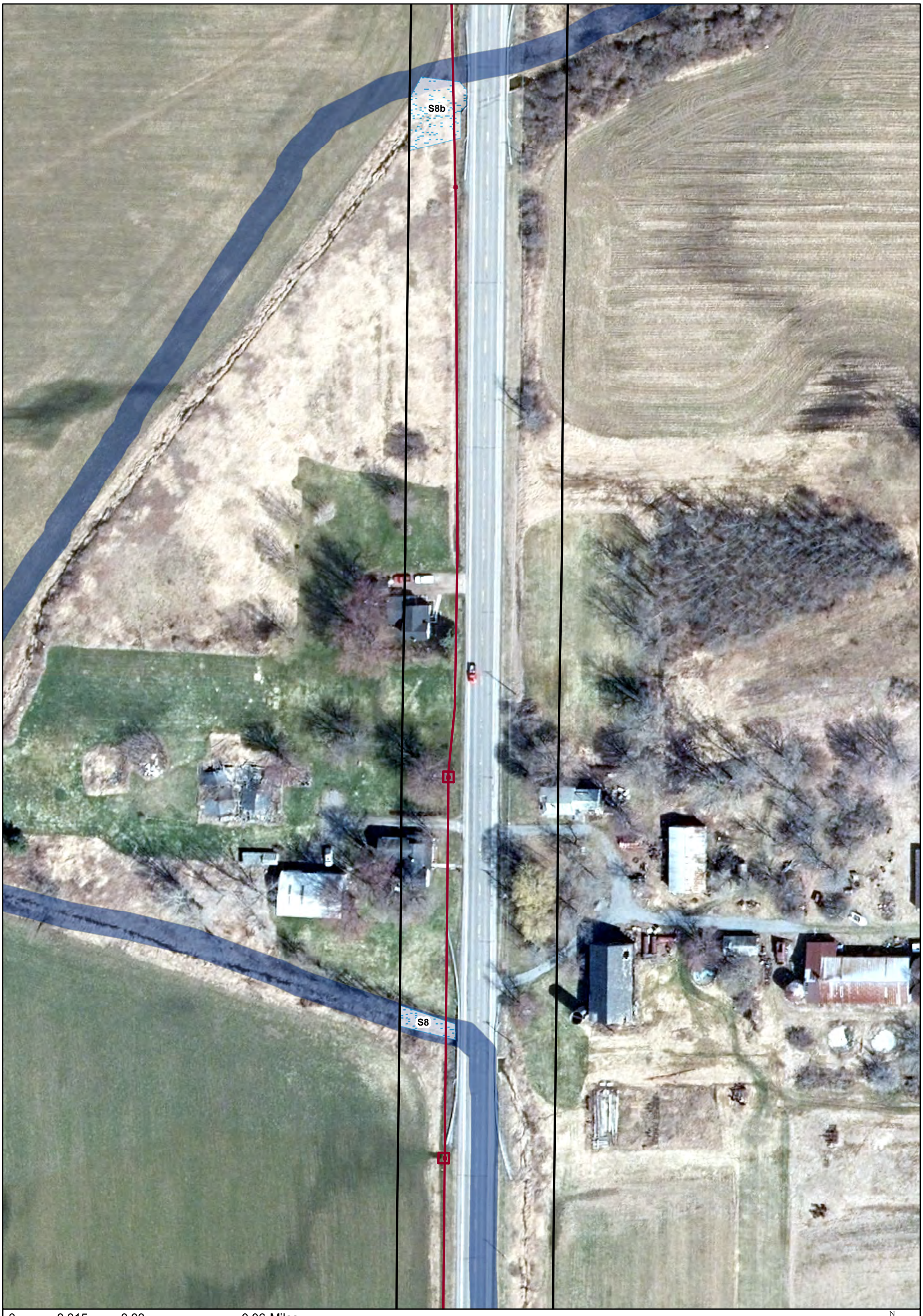
K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 8



Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

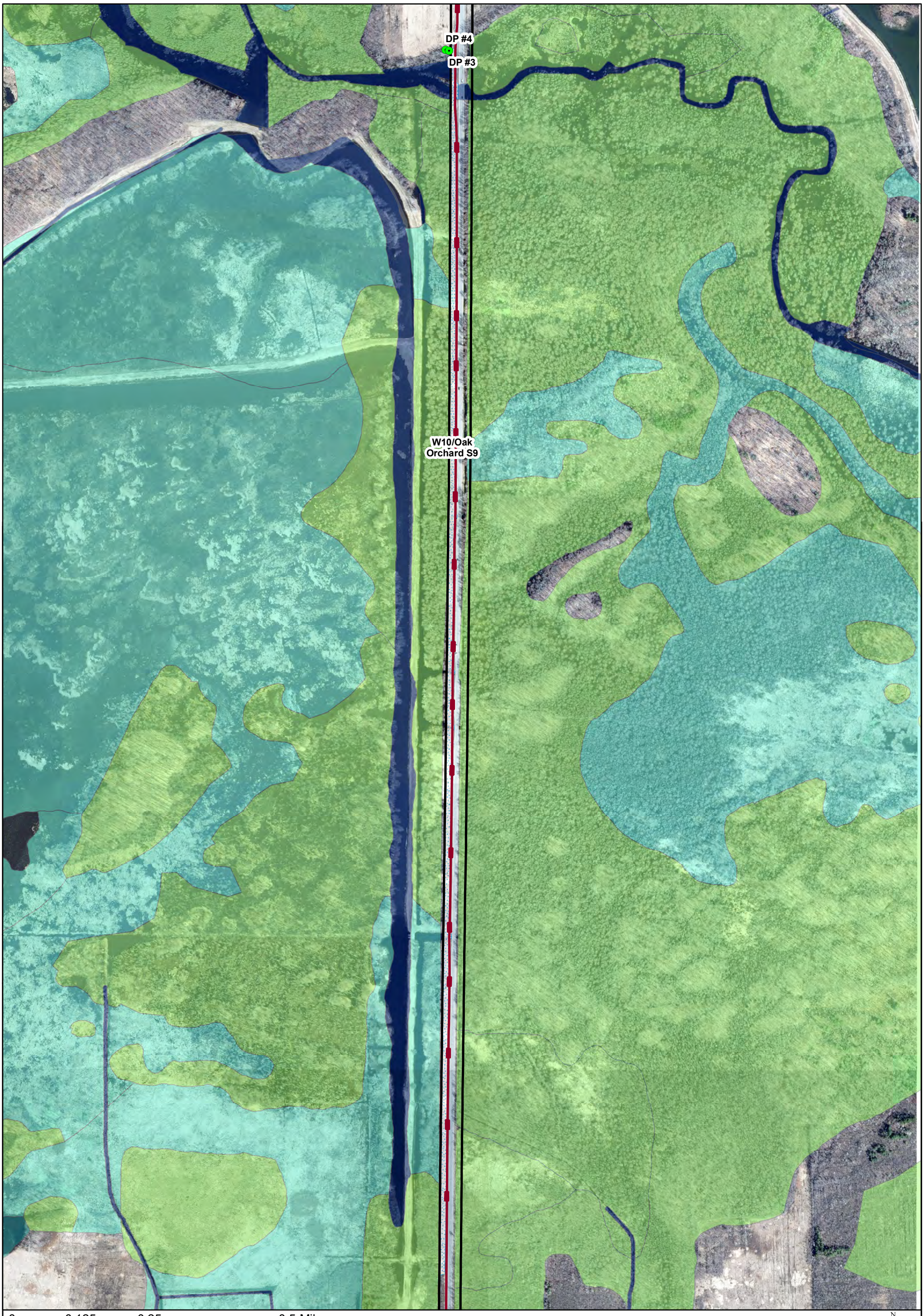
K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 9



Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Proposed Wastewater Main
Data Point
Wastewater AOI
Wetland/Stream

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 10

W8a/S11

W9

S10

0 0.0225 0.045 0.09 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 11

W8d/S12

W8c

W8b

0 0.02 0.04 0.08 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands
Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 12

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream

Proposed Wastewater Main

Wastewater AOI

Figure 13

0 0.0075 0.015 0.03 Miles

N

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

CC Environment & Planning

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 14

0 0.005 0.01 0.02 Miles

N

CC Environment & Planning

Field Mapped Wetland/Stream

STAMP Water Main Delineation
Genesee and Orleans County, New York

K. Hojnacki, Date: 6/24/2020

Wetland/Stream
Proposed Wastewater Main
Wastewater AOI

NWI Wetlands

Freshwater Emergent Wetland
Freshwater Forested/Shrub Wetland
Freshwater Pond
Riverine

Figure 15

Attachment B

STAMP Water/Wastewater Wetland Delineation Photos

W1 DP1 South

DP1 Soil

W1 DP1 North

DP2 North

STAMP Water/Wastewater Wetland Delineation Photos

W2 East

W2 East

W3 South

W4 South

STAMP Water/Wastewater Wetland Delineation Photos

W5 South

S6/W6 South

W7 North

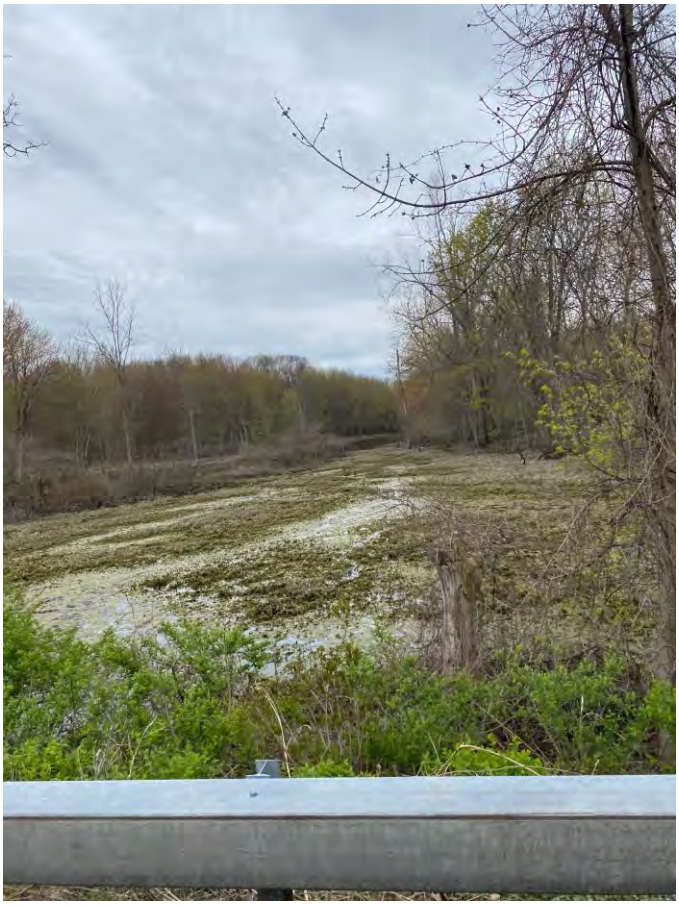
W8 South

STAMP Water/Wastewater Wetland Delineation Photos

W9 West

W10 DP3 West

DP4 East



W10 S9 West

STAMP Water/Wastewater Wetland Delineation Photos

S1 West

S2 W2 South

S2 West

S3 East

STAMP Water/Wastewater Wetland Delineation Photos

S3 South

S4 East

S5 South

S7 East

STAMP Water/Wastewater Wetland Delineation Photos

S7 West

S10 East

S10 West

S11 East

STAMP Water/Wastewater Wetland Delineation Photos

S12 West

S13 West

S13 East

S14 North

STAMP Water/Wastewater Wetland Delineation Photos

S14 South

S15 Northeast

S15 Southwest

S16 Northeast

STAMP Water/Wastewater Wetland Delineation Photos

S16 Southwest

S10 North

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: STAMP Big Water City/County: Genesee Sampling Date: 5/14/2020

Applicant/Owner: GCEDC State: NY Sampling Point: 1

Investigator(s): SH/EH Section, Township, Range: Alabama

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0%

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: WPT1 Long: Datum: WGS84

Soil Map Unit Name: NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area**
Hydric Soil Present?	Yes X	No	**within a Wetland?** **Yes** X **No**
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No	Depth (inches): 6
Water Table Present?	Yes	No	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):

Wetland Hydrology Present? **Yes** X **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION– Use scientific names of plants. Sampling Point: 1

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Phalaris arundinacea*	50	Yes	FACW
2. *Phragmites australis*	40	Yes	FACW
3. *Open Water*	10	No	
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 =Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	90	x 2 =	180
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	90 (A)		180 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

_X_ 2 - Dominance Test is >50%

_X_ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					Mucky Peat	
6-18	10YR 3/2	90	10YR 4/6	10	C	PL/M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ? Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ____

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: STAMP Big Water City/County: Genesee Sampling Date: 5/14/2020

Applicant/Owner: GCEDC State: NY Sampling Point: 2

Investigator(s): SH/EH Section, Township, Range: Alabama

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0%

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: WPT2 Long: Datum: WGS84

Soil Map Unit Name: NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes	No X	**within a Wetland?** **Yes** **No** X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No X	Depth (inches):
Water Table Present?	Yes	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):

Wetland Hydrology Present? **Yes** **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION– Use scientific names of plants. Sampling Point: 2

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Barbarea vulgaris*	30	Yes	FAC
2. *Alliaria petiolata*	15	No	FACU
3. *Lonicera morrowii*	10	No	FACU
4. Grass Unknown	40	Yes	
5. *Phalaris arundinacea*	5	No	FACW
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	100 =Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	30	x 3 =	90
FACU species	25	x 4 =	100
UPL species	0	x 5 =	0
Column Totals:	60 (A)		200 (B)

Prevalence Index = B/A = 3.33

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

No hydro, no veg/no soil data

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: STAMP Wastewater City/County: Genesee/Orleans Sampling Date: 5/14/2020

Applicant/Owner: GCEDC State: NY Sampling Point: 3

Investigator(s): SH/EH Section, Township, Range: Alabama

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0%

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: WPT Long: Datum: WGS84

Soil Map Unit Name: NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area**
Hydric Soil Present?	Yes	No X	**within a Wetland?** **Yes** **No** X
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- X Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No X	Depth (inches):
Water Table Present?	Yes	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes X	No	Depth (inches): 10

Wetland Hydrology Present? **Yes** X **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION– Use scientific names of plants. Sampling Point: 3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	60	Yes	FAC
2. *Fraxinus pennsylvanica*	20	Yes	FACW
3.			
4.			
5.			
6.			
7.			
	80	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1. *Cephalanthus occidentalis*	15	Yes	OBL
2. *Frangula alnus*	10	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	25	=Total Cover	
Herb Stratum (Plot size: 5')			
1. *Lysimachia nummularia*	60	Yes	FACW
2. *Iris versicolor*	10	No	OBL
3. *Phragmites australis*	15	No	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	85	=Total Cover	
Woody Vine Stratum (Plot size: 15')			
1. *Toxicodendron radicans*	20	Yes	FAC
2.			
3.			
4.			
	20	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	25	x 1 =	25
FACW species	95	x 2 =	190
FAC species	90	x 3 =	270
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	210 (A)		485 (B)

Prevalence Index = B/A = 2.31

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

_X_ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	100					Mucky Peat	
4-10	10YR 3/1	95	10YR 5/6	5	C	M		Prominent redox concentrations
10-16	10YR 4/1	50						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: STAMP Wastewater City/County: Genesee/Orleans Sampling Date: 5/14/2020

Applicant/Owner: GCEDC State: NY Sampling Point: 4

Investigator(s): SH/EH Section, Township, Range: Alabama

Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope %: 0%

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: Long: Datum: WGS84

Soil Map Unit Name: NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes	No X	**within a Wetland?** **Yes** **No** X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- ? Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No	Depth (inches):
Water Table Present?	Yes	No	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):

Wetland Hydrology Present? **Yes** **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION– Use scientific names of plants. Sampling Point: 4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus pennsylvanica*	5	No	FACW
2. *Frangula alnus*	40	Yes	FAC
3.			
4.			
5.			
6.			
7.			
	45	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15')			
1. *Lonicera morrowii*	70	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	70	=Total Cover	
Herb Stratum (Plot size: 5')			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
		=Total Cover	
Woody Vine Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	40	x 3 =	120
FACU species	70	x 4 =	280
UPL species	0	x 5 =	0
Column Totals:	115 (A)		410 (B)

Prevalence Index = B/A = 3.57

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

No Hydrology, No Veg, no soil data required.

CONTACT LIST

CONTACT LIST

Full-Scale Project: Genesee County Economic Development Center – STAMP Offsite Sewer

Component Project: STAMP Offsite Sewer

Applicant:	Genesee County Economic Development Center
Address:	99 MedTech Drive, Suite 106 Batavia, NY 14020
Phone:	585-343-4866

Contacts:

Name	Organization & Position	Phone
Owner during project construction:		
Mark Masse	GCEDC, Senior VP of Operations	585-348-4866 x17
Owner post-construction:		
Tansportation Corporation	TBD	TBD

Engineer:	CPL
Contact:	Andrew R. Kosa, P.E., Project Manager
Address:	205 St. Paul Street, Suite 500, Rochester, New York 14604
Phone:	585-402-7506
Fax:	585-232-5836

Post Office:	Basom Post Office
Address:	7156 Alleghany Road, Basom, NY 14013
Phone:	800-275-8777

Appendix D – Consultation Documentation

Portion of Project Area Within Occupied Habitat for Grassland Birds

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

In Reply Refer To: November 01, 2020
Consultation Code: 05E1NY00-2016-SLI-0359
Event Code: 05E1NY00-2021-E-00917
Project Name: STAMP Offsite Proposed Wastewater Line

Subject: Updated 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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2016-SLI-0359

Event Code: 05E1NY00-2021-E-00917

Project Name: STAMP Offsite Proposed Wastewater Line

Project Type: WASTEWATER PIPELINE

Project Description: Proposed sanitary sewer route in Genesee and Orleans Counties to service WNY STAMP project in the Town of Alabama, Genesee County, NY.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/43.15017767558265N78.39048804666294W

Counties: Genesee, NY | Orleans, NY

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

May 22, 2017

Charlotte Brett
Independent Environmental Consultant
11 Sagamore Terrace
Buffalo, NY 14214

Re: STAMP Offsite Sanitary Sewer Force Main Project - Alternative 3 (applicant preferred)
County: Genesee, Orleans Town/City: Alabama, Shelby

Dear Ms. Brett:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur along the project route or in its vicinity.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to 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.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and 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 8 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

407A

The following state-listed animals have been documented along Alternative 3 or in its vicinity.

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for the project, contact the Permits staff at the NYSDEC Region 8 Office. For information about potential impacts of the project on these species, and how to avoid, minimize, or mitigate any impacts, contact the Wildlife Manager.

A listing of Regional Offices is at http://www.dec.ny.gov/about/558.html.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*FEDERAL LISTING*	
The following species have been documented in the Iroquois National Wildlife Refuge along or near the proposed project route.				
Bald Eagle *Breeding*	*Haliaeetus leucocephalus*	Threatened		11597
Upland Sandpiper *Breeding*	*Bartramia longicauda*	Threatened		7196
Pied-billed Grebe *Breeding*	*Podilymbus podiceps*	Threatened		10651
Short-eared Owl *Breeding*	*Asio flammeus*	Endangered		11106
Sedge Wren *Breeding*	*Cistothorus platensis*	Threatened		6232
Henslow's Sparrow *Breeding*	*Ammodramus henslowii*	Threatened		679
Least Bittern *Breeding*	*Ixobrychus exilis*	Threatened		6222
Northern Harrier *Wintering*	*Circus cyaneus*	Threatened		15013
The following species have been documented about one mile north of the north end of the proposed project route.				
Bald Eagle *Breeding*	*Haliaeetus leucocephalus*	Threatened		14962

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. 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.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.

The following rare animals have been documented in the vicinity of Alternative 3.

We recommend that potential onsite and offsite impacts of the proposed project on these species be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQR. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

The following animals, while not listed by New York State as Endangered or Threatened, are of conservation concern to the state, and are considered rare by the New York Natural Heritage Program.

COMMON NAME	*SCIENTIFIC NAME*	*NY STATE LISTING*	*HERITAGE CONSERVATION STATUS*
Fish			
Black Bullhead	*Ameiurus melas*	Unlisted	Critically Imperiled in NYS
Iroquois National Wildlife Refuge; also Oak Orchard River at Shelby Center, 2012-08-20			14638
Crustaceans			
Devil Crawfish	*Cambarus diogenes*	Unlisted	Imperiled in NYS
Oak Orchard River in Iroquois National Wildlife Refuge, including crossing by proposed project route, 1987-07-05: The crayfish were found along the bank of the creek and the banks of a nearby channel. The riparian zone alternates between marshy and forested swamps.			12688

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. 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.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, from NatureServe Explorer at www.natureserve.org/explorer, and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

OAK ORCHARD CREEK
STAMP MUSSEL SURVEY
MEDINA, NEW YORK

October 2020

PREPARED FOR:

CC ENVIRONMENT AND PLANNING
23 JACKSON STREET, SUITE 201
BATAVIA, NEW YORK 14020

PREPARED BY:

RIVEREDGE ENVIRONMENTAL, INC.
58 OLD RIVER RD.
MASSENA, NEW YORK 13662

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1.0 INTRODUCTION:

Riveredge Environmental was contracted by CC Environment and Planning to conduct a mussel survey at a proposed wastewater discharge site on Oak Orchard Creek, Town of Medina, Orleans County (Figure 1). This document provides a summary of the freshwater mussel (Family Unionidae) survey conducted on September 27th 2020 at Oak Orchard Creek (GPS coordinates Lat. 43.197415 N, Long. 78.390987 W) in New York State Department of Environmental Conservation (NYSDEC) Region 8.

2.0 METHODS

Riveredge conducted timed-search surveys in the area of direct impact (ADI) which consisted of a permanent 6.1 m easement for the installation of a discharge pipe at the point where it meets the creek (Figure 2). Also surveyed were a lateral buffer of 10 m wide adjacent to the ADI, a mixing zone (MZ, 10 m in length) just downstream from the ADI (Figure 2), an upstream (USB, 10 m in length), and a downstream buffer (DSB, 100 m in length) (Figure 2).

All survey cells were 10 m x 10 m except for the ADI which was 6.1 m x 10 m (Figure 2). A total of 13 cells were searched (USB, ADI, MZ, DSB). Given the low water levels, almost all cells were searched from bank to bank (Figure 3). Only the most downstream cell in the DSB that was in a wider section of the creek and included a small backwater area of the creek was not searched bank to bank. Cells were searched from downstream to upstream to avoid poor visibility created by suspended sediment.

Each cell was marked with temporary survey stakes (Figure 4) and searched visually and tactilely by six mussel searchers systematically walking upstream throughout the cell. Surveyors visually searched for mussels and probed the sediment by hand at a minimum rate of 0.2 min/m^2 (Clayton et al 2018). If live mussels were found, the cell was searched for an additional 0.3 minutes/m^2 as required by the West Virginia mussel survey protocols (Clayton et al. 2018).

This mussel survey was conducted in accordance with a Department of Environmental Conservation (DEC) License to Collect and Possess (Scientific) number 2793.

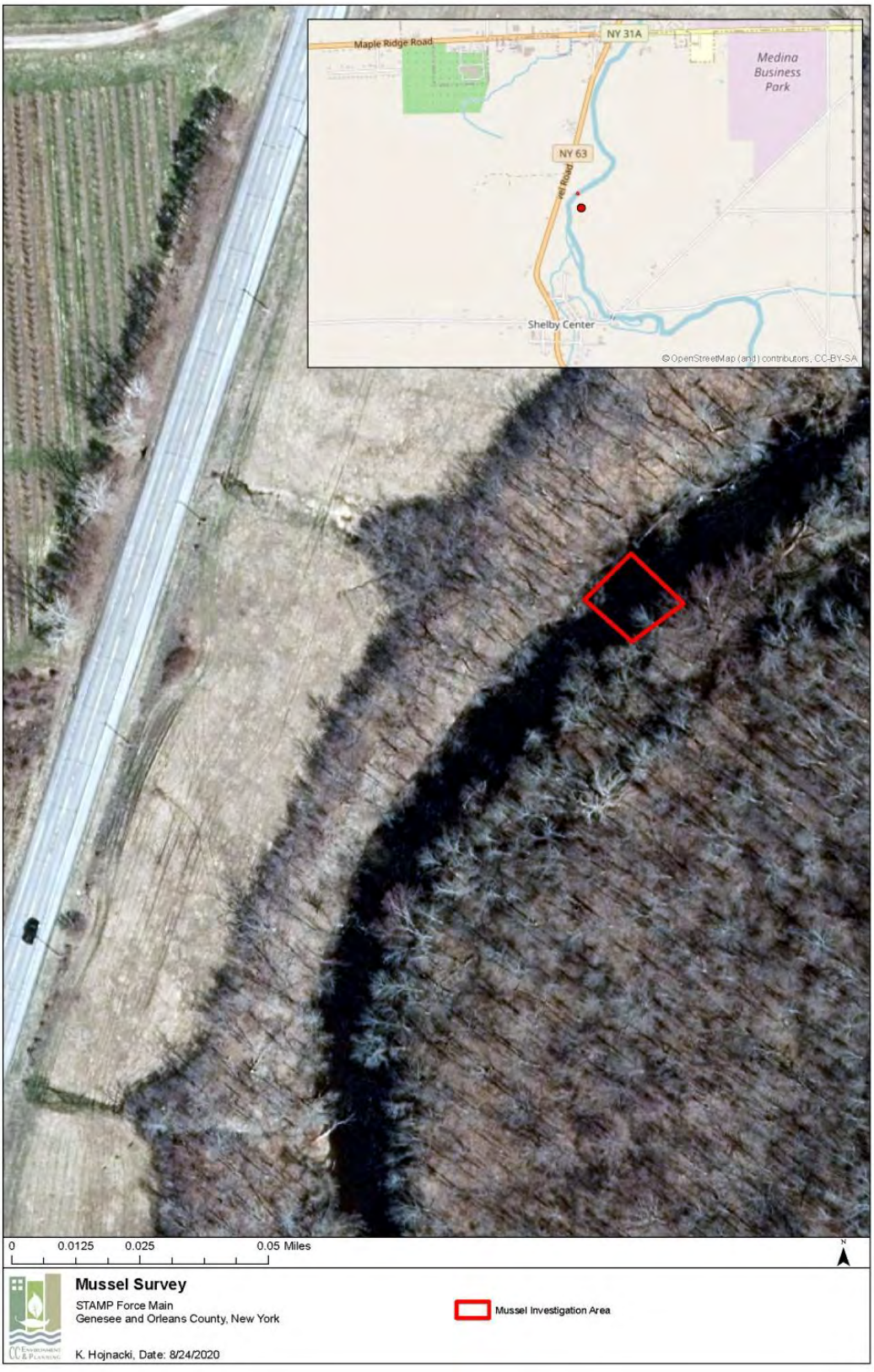

FIGURE 1. GENERAL LOCATION MAP OF THE PROPOSED OUTFALL ON OAK ORCHARD CREEK.

FIGURE 2. PLAN VIEW OF MUSSEL SURVEY CELLS IN OAK ORCHARD CREEK.

3.0 RESULTS AND DISCUSSION

Only one cell had live mussels. This cell was the most downstream cell of the DSB (Figure 5). The mussels found in this DSB cell was Giant Floater, *Pyganodon grandis* (Figure 6, Figure 7). Three live individuals and one recently dead (with fresh tissue attached to the shell) were found in the cell (Table 1). *Pyganodon grandis* has a rank of S4. This species is not protected in the State of New York and it is not a Species of Greatest Conservation Need (SGCN); it is not tracked by New York Natural Heritage (NYNHP). All individuals of this species were found in a backwater that had large deposits of sand and silt at the downstream end of the DSB (Figure 5). All other cells were predominantly cobble, with less sand and silt, and appeared to be subject to higher flow during spring runoff events. The overall Catch per Unit Effort (CPUE) was 0.6 mussels per hour (Table 1).

TABLE 1. NUMBER OF CELLS SEARCHED, SEARCH TIME, AND MUSSELS FOUND.

Search Area	Number of Cells	Total Survey Area (m^2)	Search time in minutes (if no mussels, rate=0.2 min/m^2; with mussels rate=0.5 min/m^2)	No. of Live Mussels Found
Area of Direct Impact (ADI), no mussels	1	61	12.2	0
Mixing Zone (MZ), no mussels	1	100	20.0	0
Upstream Buffer (USB), no mussels	1	100	20.0	0
Downstream Buffer (DSB) cells without mussels (n=9)	9	900	180.0	0
Downstream Buffer (DSB) cell with live mussels (n=1)	1	100	50.0	3
Totals	13	1,261	282.2	3
Catch per Unit Effort (CPUE) in mussels per hour:			= 3/(282.2/60) = **0.6**	

FIGURE 3. VIEW OF OAK ORCHARD CREEK AT THE ADI LOOKING UPSTREAM.

FIGURE 4. SURVEY CELLS WERE MARKED OUT WITH TEMPORARY SURVEY STAKES.

FIGURE 5. THE DOWNSTREAM CELL WHERE LIVE MUSSELS WERE FOUND.

FIGURE 6. *PYGANODON GRANDIS* WAS FOUND IN THE DSB.

FIGURE 7. VIEW OF THE BEAK SCULPTURE OF *PYGANODON GRANDIS*.

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

May 10, 2018

Ms. Amy Wood
Regional Historic Preservation Officer
U.S. Fish & Wildlife Service
Northeast Region
300 Westgate Center Dr.
Hadley, MA 01035

Re: USFWS
Western New York Science & Technology Advanced Manufacturing Park (STAMP)
Off-Site Sewer Project
Towns of Alabama & Shelby, Village of Medina
Orleans & Wyoming Counties, NY
16PR00775

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the *Phase IA/IB Cultural Resource Investigation Report for the Iroquois National Wildlife Refuge* and P*hase IB Cultural Resource Investigation Report (Outside the Iroquois National Wildlife Refuge)*, prepared by Deuel Archaeology & CRM, in accordance with Section 106 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 Conservation Law Article 8).

Based upon this review, the New York SHPO recommends that no historic properties will be affected by this undertaking.

If you have any questions, I can be reached at (518) 268-2179.

Sincerely,

Nancy Herter

Nancy Herter
Archaeology Unit Program Coordinator

NEW YORK STATE OF OPPORTUNITY. | Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

August 11, 2020

Mr. Zach Anderson
Project Engineer
CPL
205 St. Paul Street
Rochester, NY 14605

Re: USFWS
Western New York Science & Technology Advanced Manufacturing Park (STAMP) Off-Site Sewer Project / *Proposed Location of New Force Main Discharge Location to Oak Orchard Creek*
Towns of Alabama & Shelby, Village of Medina
Orleans & Wyoming Counties, NY
16PR00775

Dear Mr. Anderson:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the *proposed location of the new force main discharge location to Oak Orchard Creek* in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources.

Based upon this review, it is the opinion of the SHPO that a Phase IB archaeological survey is not warranted for this location given the lack of known archaeological sites in the vicinity and the short length of force main suitable for archaeological testing. Therefore, the SHPO continues to recommend that no historic properties, including archaeological and/or historic resources, will be affected by this undertaking.

If you have any questions, I can be reached at nancy.herter@parks.ny.gov.

Sincerely,

Nancy Herter

Nancy Herter
Archaeology Unit Program Coordinator