

A. INTRODUCTION

This attachment assesses the potential for significant adverse impacts due to construction of the Proposed Action.

B. CONSTRUCTION SCHEDULE AND ACTIVITY

The construction of the Proposed Action will take approximately 18 months. The typical work schedule for the Proposed Action would be from 7 AM to 5 PM, Monday to Friday, with the exception of work performed along state roads, which will be scheduled from 9 AM to 3 PM, as per NYSDOT regulations. Possible evening or weekend work may be scheduled as needed, particularly for work at major intersections.

Approximately 9.34 acres of the approximate 11.46 acre Proposed Substation parcel will be disturbed in order to construct the Proposed Substation, access road, and to regrade the existing stormwater recharge basin to achieve adequate stormwater storage capacity. Approximately 0.76 acres will be utilized for the Proposed Substation, approximately 0.30 acres will be utilized for the access road, and approximately 0.69 acres will be a grass right-of-way for LIPA transmission circuit/distribution feeder maintenance/repair activities. The remaining areas (approximately 9.71 acres) will continue to be utilized as a stormwater recharge basin.

It is anticipated that all excavated soil from the Proposed Substation parcel will be re-used, unless deemed unsuitable, and that an additional approximately 38,900 cubic yards of fill will be brought to the site for regrading activities. Any excess unsuitable soil generated during construction will be transported off-site for disposal in accordance with applicable federal and state regulations.

Construction activities will require the removal of approximately 6.2-acres of natural landscaping (i.e., trees, shrubs etc.) from the Proposed Substation parcel. Existing vegetation will remain on the southern and eastern portion of the parcel. With the exception of the Proposed Substation and access road, disturbed areas will be restored with seed and/or plantings, in accordance with the proposed Landscape Plan, provided in **Appendix A**. Once the Proposed Substation construction is complete, tree plantings will be installed along the northern and western substation perimeter.

The existing storm water intakes and outfall at the parcel will not be moved, however will require modification. The proposed grading of the parcel will both offset the anticipated fill needed to support the new installation and increase storage capacity in the recharge basin. Regrading of the recharge basin will result in an increase in stormwater storage capacity after construction is complete.

Construction of the UG transmission circuits and distribution exit feeders will typically include the following activities: asphalt cutting and open trenching or horizontal directional drilling (HDD); circuit installation, manhole and splice vault installation; backfilling open trench or drill pit areas; and right-of-way restoration. Right-of-way restoration plans have been developed in consultation with Nassau County. PSEG Long Island will complete curb to curb pavement restoration along Plainview Road and Round Swamp Road. Partial pavement restoration will be completed along Old Country Road and Bethpage Sweet Hollow Road/Spagnoli Road, where an approximate 6 to 8 foot wide area encompassing the cable trench excavation areas will be repaved.

All contractors involved in construction will be required to submit an acceptable Health and Safety Plan (“HASP”) prior to construction.

C. ENVIRONMENTAL EFFECTS OF PROJECT CONSTRUCTION ACTIVITIES

TRAFFIC

During the majority of the Proposed Substation construction work, there will be no impact on traffic given that much of the work will occur within the Proposed Substation parcel.

Traffic will be temporarily impacted during the transmission circuit and distribution exit feeder construction activities (including manhole and splice vault installations, as well as pavement restoration activities), as work will occur within/along public roadways. For all transmission circuit and distribution exit feeder activities, traffic will be managed in accordance with municipal road opening permits and work zone traffic control plans will be developed in accordance with permit requirements to ensure safe traffic flow. Flaggers will be deployed any time traffic needs to be regulated.

The Proposed Action will not require full road closures, with the exception of work at major intersections (Plainview Road/Old Country Road, Old Country Road/Round Swamp Road and Round Swamp Road/Bethpage Sweet Hollow Road), where detours will be established. Work at these intersections will be conducted during evening hours to minimize traffic impacts, and has been coordinated with, and approved by the local municipalities. Evening work at the intersections will typically require two work shifts for each location; one shift for cable installation and one shift for restoration.

All other work activities will be accommodated by partial lane closures/lane modifications to channel traffic appropriately. Further, PSEG Long Island will coordinate with local municipalities regarding the construction work schedule to ensure that traffic does not significantly impact nearby businesses/events.

AIR QUALITY

Construction vehicles, worker vehicles and construction equipment, as well as dust generating construction activities, generate air pollutant emissions. Overall, the emissions generated during construction of the Proposed Action will be similar to construction emissions from other similar utility construction activities, and further will be temporary. Since construction vehicles, worker vehicles and construction equipment are not expected to operate on a continuous basis during any day, any generated air emissions will not result in adverse impacts to air quality. Therefore, construction activities will not result in significant adverse impacts to air quality.

NOISE AND VIBRATION

Short term impacts to ambient or background noise levels and vibration levels may be experienced along the Proposed Action route from construction equipment operation, as well as from mobile sources (i.e., trucks and worker vehicles traveling to and from the Substation Site). These impacts, if any, will be temporary in nature and are typical for any utility construction project of this of this type. As such, no significant adverse noise or vibration impacts will occur as a result of construction activities.