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October 31, 2016

VIA ELECTRONIC MAIL AND
OVERNIGHT MAIL

Melanie A. Bachman
Acting Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: **PETITION NO. 1218 -** PSEG Power Connecticut LLC petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the construction, maintenance, and operation of a new 485 megawatt (MW) dual fuel combined-cycle electric generating facility at the existing Bridgeport Harbor Station located at 1 Atlantic Street, Bridgeport, Connecticut

Dear Ms. Bachman:

Enclosed please one original and fifteen (15) copies of PSEG Power Connecticut LLC's ("PSEG") Phase 2 Development and Management Plan ("D&MP Phase 2"). Exhibit 2 to the D&MP Phase 2, which consists of the Facility Design Drawings, is included on large-format paper for ease of reviewing. PSEG wishes to call the Siting Council's attention to the following minor changes from PSEG's Petition, none of which are material:

- Relocation of out-buildings and support facilities, as well as certain tanks and the auxiliary cooling tower to optimize configuration within the site;
- Addition of a floor on the administration / services building;
- Modification of the eastern and southern onsite roads to allow for two-way traffic and improve turning radii;
- Minor changes in location and size of the various power distribution centers to accommodate the necessary equipment and facilitate utility routings;
- Addition of a third Oil/Water Separator; and
- Updates to the layout of the Gas-Insulated Switchgear (GIS) Switchgear and Building.

Following your receipt of the hard copies of the documents, we are available to meet at your convenience to review and discuss. Thank you for your attention to this matter.

Sincerely yours,

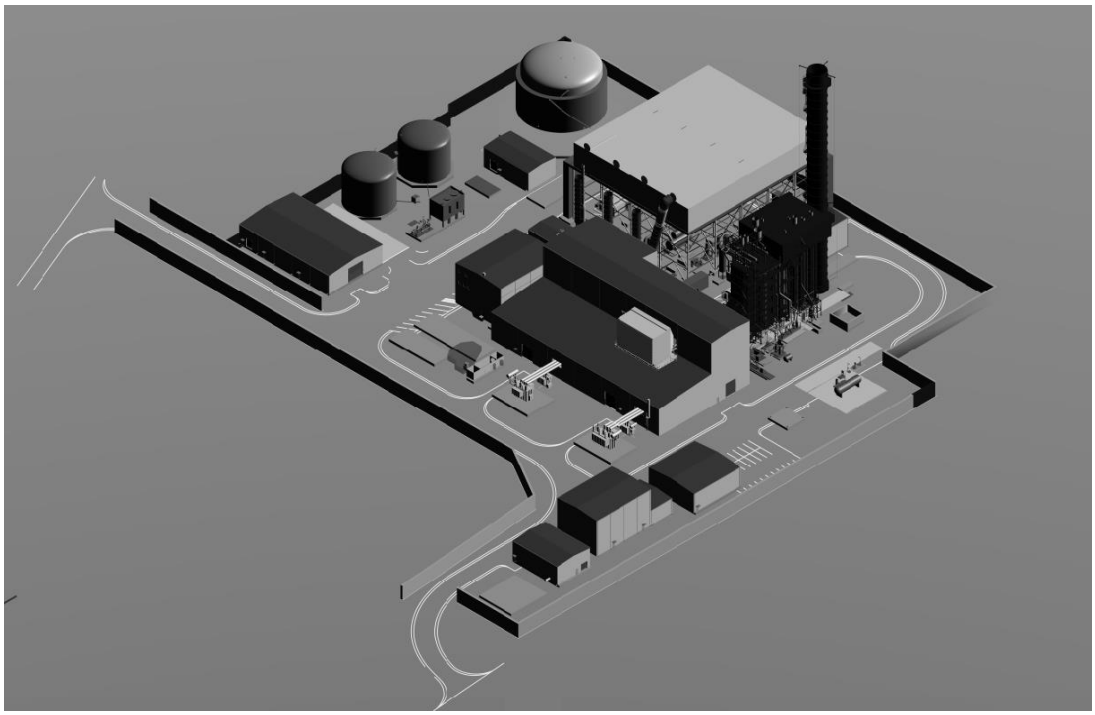
HOLLAND & KNIGHT LLP

Stephen J. Humes

Enclosures
cc: Service List

Connecticut Siting Council
Development and Management Plan Phase 2
New Combined Cycle Generating Facility

Bridgeport Harbor Station Unit 5
Bridgeport, Connecticut



PREPARED FOR:
PSEG POWER CONNECTICUT, LLC
October 31, 2016

Connecticut Siting Council – Development and Management Plan Phase 2
New Combined Cycle Generating Facility - Bridgeport Harbor Station Unit 5
Petition No. 1218 (Approved July 21, 2016)
October 31, 2016

Development and Management Plan Phase 2 Summary:

This Phase 2 Development and Management Plan (D&MP Phase 2) submittal to the Connecticut Siting Council (CSC) provides detailed plant design data and information related to the new combined cycle generating facility designated by PSEG Power Connecticut LLC (PSEG) as the PSEG Bridgeport Harbor Station Unit 5 Combined Cycle Project (BHS 5, the Project or the Facility). An initial D&MP submittal (D&MP Phase 1), for construction support facilities was filed with the CSC on September 21, 2016. Collectively, these two D&MP documents include the complete design and construction details of the Project.

More specifically, the contents of this D&MP Phase 2 filing are based upon the requirements included in the CSC's July 21, 2016 Opinion, Findings of Fact, and Decision and Order. This D&MP Phase 2 filing and the previously filed D&MP Phase 1 contain the plans and specifications for compliance with all of the CSC's conditions as set forth in the Decision and Order.

As noted in D&MP Phase 1, PSEG has engaged Black & Veatch ("B&V"), an international construction and engineering firm, for the detail design and construction management of BHS 5. A Project team has been mobilized on site.

There are minor changes in Facility layout (compared to the details presented in the preliminary drawings included in the record in Petition No. 1218) that are addressed in more detail in Exhibit 1. The changes are minor relocation and sizing differences for out-buildings and support facilities, final elevations and footprints, addition of a floor on the administration / services building, and other refinements in the design. The major structures have not been moved and the stack height and Project boundary lines are unchanged.

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Table of Contents

This D&MP Phase 2 consists of drawings, updated information and status, and project planning information necessary to detail the current PSEG BHS 5 design and operating plans. A requirements matrix is included for convenience after the Table of Contents.

Exhibits:

Note that all of the Exhibits are included in this text document except for the Exhibit 2 Drawings.

1. Facility Design

2. Facility Design Drawings

- 191547-DS-3000A COVER SHEET
- 191547-5GAU-G1000 OVERALL SITE PLOT PLAN
- 191547-5GAU-G1001 OVERALL SITE ARRANGEMENT
- 191547-DS-1042 PLANT LAYOUT - GENERAL YARD PROPOSED PLANT LAYOUT
- 191547-5STF-S3000 KEY PLAN & GENERAL NOTES & LEGEND
- 191547-5STF-S3001 GRADING & DRAINAGE
- 191547-5STF-S3002 GRADING & DRAINAGE
- 191547-5STF-S3003 GRADING & DRAINAGE
- 191547-5STF-S3004 GRADING & DRAINAGE
- 191547-5STF-S3004A GRADING & DRAINAGE
- 191547-5STF-S3005 GRADING & DRAINAGE
- 191547-5STF-S3006 GRADING & DRAINAGE
- 191547-5STF-S3007 GRADING & DRAINAGE
- 191547-5STF-S3050 GRADING SECTION & DETAILS
- 191547-5STD-S3200 SURFACING, FENCING & LANDSCAPING KEY PLAN
- 191547-5STD-S3201 SURFACING, FENCING & LANDSCAPING PLAN
- 191547-5STD-S3202 SURFACING, FENCING & LANDSCAPING PLAN
- 191547-5STD-S3203 SURFACING, FENCING & LANDSCAPING PLAN
- 191547-5STF-S3900A CATCH BASIN & MANHOLE DETAILS
- 191547-5STF-S3900B CATCH BASIN & MANHOLE DETAILS
- 191547-5STF-S3900C CATCH BASIN & MANHOLE DETAILS
- 191547-5STF-S3901 RIPRAP DETAILS
- 191547-5STF-S3915A SECURITY FENCE SECTIONS & DETAILS

- 191547-5STF-S3915B SECURITY FENCE SECTIONS & DETAILS
- 191547-DS-1032A UTILITY PLAN
- 191547-DS-1032B UTILITY PLAN
- 191547-DS-1034 GENERAL YARD DRAINAGE KEY PLAN
- 191547-DS-1034A DRAINAGE PLAN – AREA 1
- 191547-DS-1034B DRAINAGE PLAN – AREA 2
- 191547-DS-1035 TRAFFIC OPERATIONS KEY PLAN
- 191547-DS-1035A TRAFFIC OPERATIONS
- 191547-DS-1035B TRAFFIC OPERATIONS
- 191547-DS-1035C CONSTRUCTION TRAFFIC OPERATIONS
- 191547-DS-1035D CONSTRUCTION TRAFFIC OPERATIONS
- 191547-DS-1036 CONSTRUCTION PHASE 1 Overall
- 191547-DS-1036A CONSTRUCTION PHASE 1
- 191547-DS-1036B CONSTRUCTION PHASE 1
- 191547-DS-1036C CONSTRUCTION PHASE 1
- 191547-DS-1036D CONSTRUCTION PHASE 1
- 191547-DS-1037 CONSTRUCTION PHASE 2 Overall
- 191547-DS-1037A CONSTRUCTION PHASE 2
- 191547-DS-1037B CONSTRUCTION PHASE 2
- 191547-DS-1037C CONSTRUCTION PHASE 2
- 191547-DS-1037D CONSTRUCTION PHASE 2
- 191547-DS-1038 CONSTRUCTION PHASE 3 Overall
- 191547-DS-1038A CONSTRUCTION PHASE 3
- 191547-DS-1038B CONSTRUCTION PHASE 3
- 191547-DS-1038C CONSTRUCTION PHASE 3
- 191547-DS-1038D CONSTRUCTION PHASE 3
- 191547-DS-1039 CONSTRUCTION PHASE 4 Overall
- 191547-DS-1039A CONSTRUCTION PHASE 4
- 191547-DS-1039B CONSTRUCTION PHASE 4
- 191547-DS-1039C CONSTRUCTION PHASE 4
- 191547-DS-1039D CONSTRUCTION PHASE 4
- 191547-DS-1040 CONSTRUCTION PHASE 5 Overall
- 191547-DS-1040A CONSTRUCTION PHASE 5
- 191547-DS-1040B CONSTRUCTION PHASE 5
- 191547-DS-1040C CONSTRUCTION PHASE 5

- 191547-DS-1040D CONSTRUCTION PHASE 5
- 191547-DS-1043 PLANT CROSS SECTION
- 191547-DS-1044A OIL SPILL PREVENTION PIPES
- 191547-DS-1044B OIL SPILL PREVENTION PIPES
- 191547-DS-1045A 345 KV UNDERGROUND TRANSMISSION LIMIT OF DISTURBANCE
- 191547-DS-1045B 345 KV UNDERGROUND TRANSMISSION DUCTBANK SECTIONS
- 191547-DS-1045C 345 KV UNDERGROUND TRANSMISSION SPLICING VAULT
- 191547-DE-2601 SITE LIGHTING PLAN ILLUMINATION POINT ANALYSIS
- 191547-DE-2602 SITE LIGHTING PLAN ILLUMINATION CONTOUR ANALYSIS
- 191547-5BSA-A4001 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSA-A4002 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSA-A4005 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSA-A4006 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSA-A4007 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSA-A4008 TURBINE/GENERATOR ENCLOSURE
- 191547-5BSZ-A4210 BOILER FEEDWATER PUMP ENCLOSURE
- 191547-5BSZ-A4211 BOILER FEEDWATER PUMP ENCLOSURE
- 191547-5BSX-A4301 AUX BOILER
- 191547-5BSX-A4302 AUX BOILER
- 191547-5BSR-A4401 WAREHOUSE/MAINTENANCE BUILDING
- 191547-5BSR-A4402 WAREHOUSE/MAINTENANCE BUILDING
- 191547-5BSR-A4403 WAREHOUSE/MAINTENANCE BUILDING
- 191547-5BSE-A4450 GIS ENCLOSURE
- 191547-5BSE-A4451 GIS ENCLOSURE
- 191547-5BSE-A4452 GIS ENCLOSURE
- 191547-5BSE-A4453 GIS ENCLOSURE
- 191547-5BSE-A4454 GIS BUILDING – NORTH & SOUTH ELEVATIONS
- 191547-5BSD-A4501 ADMIN/CONTROL/AUX ELECT BUILDING
- 191547-5BSD-A4502 ADMIN/CONTROL/AUX ELECT BUILDING
- 191547-5BSD-A4503 ADMIN/CONTROL/AUX ELECT BUILDING
- 191547-5BSD-A4504 ADMIN/CONTROL/AUX ELECT BUILDING
- 191547-5BSD-A4510 ADMIN/CONTROL/AUX ELECT BUILDING
- 191547-5BSJ-A4651 WATER TREATMENT AREA
- 191547-5BSJ-A4652 WATER TREATMENT AREA

- 191547-5BSJ-A4653 WATER TREATMENT AREA
- 191547-5BSG-A4701 FUEL GAS PROCESSING ENCLOSURE
- 191547-5BSG-A4702 FUEL GAS PROCESSING ENCLOSURE
- 191547-5BSG-A4703 FUEL GAS PROCESSING ENCLOSURE
- 191547-5BSV-A4715 GAS COMPRESSOR & CONDITIONING AREA
- 191547-5BSV-A4716 GAS COMPRESSOR & CONDITIONING AREA
- 191547-5BSV-A4717 GAS COMPRESSOR & CONDITIONING AREA

3. Miscellaneous Construction Planning Overview and Updates
4. Water Use Summary - Water Balance Diagrams
5. Permitting Status Matrix
6. Construction Schedule Update
7. BHS Unit 3 Tank and Unloader Construction Status
8. BHS Unit 3 Tank Farm Demolition and Remediation Status
9. Potential for Waste Heat Reuse
10. Status of Fuel Oil Dock Repair Project
11. Traffic Impact Study
12. Status of The United Illuminating Company (UI) Exempt Modification Request
13. Copy of UI September 29, 2016 Filing with CSC
14. Noise Study
15. Stormwater Pollution Control and Stormwater Pollution Prevention Plans
16. Copy of Submitted Stormwater Pollution Control Plan
17. Renewed FAA Determination
18. Spill Prevention Control and Countermeasures Plan
19. Decommissioning Plan
20. PSEG Fossil Procedures for Ammonia and Hydrogen Off-Loading and Handling

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CSC Requirement Number	CSC Requirement	D&M Plan Phase 1 Construction Support Facilities	D&M Plan Phase 2 BHS 5 Design
1(a)	Final site plan showing roads, structures, and other improvements on the site	Partial: construction execution planning process summary included as Exhibit 1. A general update on Project Scope and Design is included as Exhibit 15.	Final structures and other improvements, including buildings, stack, power block, and balance of plant (Exhibits 1 and 2)
1(b)	Consideration of waste heat as supply for thermal loop or nearby industrial user	N/A	Included (Exhibit 9)
1(c)	Lighting plan and details to minimize impact on off-site properties	Partial: construction lighting only – Exhibit 9	Final lighting plans (Exhibits 1 and 2)
1(d)	Final fuel dock rehabilitation plan	Update on status included as Exhibit 7	Status unchanged since D&MP Phase 1 – PSEG will provide an update of this portion of the project by September 30, 2017 after design is completed. See Exhibit 10.
1(e)	Water and sewer connection routes	Partial: temporary construction sewer line connection and other utilities included in Exhibit 9. Note that the status of the UI Exempt Modification request is included as Exhibit 11.	Permanent utility routing included (Exhibits 1 and 2)
1(f)	Status of site remediation in existing fuel tank area and remaining remediation work - Which areas of contamination will be inaccessible? - Layer showing contaminated soil locations	Remedial Action Plan Addendum included as Exhibit 6. Status of remediation implementation included as Exhibit 5. Unit 3 tank and unloader status included as Exhibit 4.	Status for remaining work will be included to document final soil placement locations. (Exhibits 7 and 8)
1(g)	Natural gas interconnection plan and gas compressor building design and location	N/A	Included (Exhibit 2)
1(h)	Final Erosion and Sediment Control Plans	Soil Erosion and Sediment Control Plans included in Exhibit 9 as noted in Exhibit 14. The USACE Jurisdictional Determination is included as Exhibit 13.	SESC plans included in Exhibit 2; they were previously provided in D&MP Phase 1 as well.
1(i)	Final stormwater design	N/A	Included (Exhibit 2)
1(j)	Stormwater Pollution Protection Plan	N/A	Included (Exhibit 15)

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CSC Requirement Number	CSC Requirement	D&M Plan Phase 1 Construction Support Facilities	D&M Plan Phase 2 BHS 5 Design
1(k)	Flood Mitigation Plan	N/A	Included (Exhibit 3)
1(l)	Final plans to demonstrate compliance with CT DEEP noise standards	N/A	Final Noise Study Report Included (Exhibit 14)
1(m)	Fuel storage and handling plan, including containment and spill protection measures	N/A	Spill Prevention Control and Countermeasures Plan included (Exhibit 18)
1(n)	Containment measures for step-up transformer dielectric fluids and ULSD storage tank	N/A	Included (Exhibit 3)
1(o)	Containment and/or protective measures for delivery and storage of hydrogen and aqueous ammonia	N/A	Included (Exhibits 3 and 20)
1(p)	Backup generator design and containment measures for fuel, oil, and coolant	N/A	Included (Exhibit 3)
1(q)	Dewatering plan to address groundwater issues during construction	N/A	Stormwater Pollution Control Plan for construction stormwater and dewatering included. (Exhibits 15 and 16)
1(r)	Detailed project schedules for all work activities and proposed typical construction days and hours	Partial: Schedule update Included as Exhibit 2 and permitting status included as Exhibit 3.	Work hours and schedule update included in Exhibits 3 and 6 respectively.
1(s)	Construction laydown area locations	Included in Exhibits 8 and 10 including access routings for high trucks. In addition, the plans for barge delivery of equipment and unloading are included as Exhibit 12.	See Exhibit 3 for an update regarding a lease agreement for an adjoining property
1(t)	Site security measures	Partial: site security for construction discussed in Exhibit 1.	Partial: Site security measures (Exhibit 3)
1(u)	Final FAA lighting design for the stack and any FAA crane determinations	N/A	Included (Exhibit 3)
1(v)	Decommissioning Plan as contingency plan, including infrastructure removal and site restoration plans	N/A	Included (Exhibit 19)
6(i)*	Identification of cleaning media to be used	N/A	Not currently available. An update will be provided by September 30, 2017.

CSC Requirement Number	CSC Requirement	D&M Plan Phase 1 Construction Support Facilities	D&M Plan Phase 2 BHS 5 Design
6(ii)*	Identification of any known hazards through use of selected cleaning media	N/A	Not currently available. An update will be provided by September 30, 2017.
6(iii)*	Description of how known hazards will be mitigated, including applicable state or federal regulations	N/A	Not currently available. An update will be provided by September 30, 2017.
6(iv)*	Identification and description of accepted industry practices or relevant regulations concerning proper use of such media	N/A	Not currently available. An update will be provided by September 30, 2017.
6(v)*	Detailed narratives/drawings showing location and procedures to be used during pipe cleaning process, including worker safety exclusion zones	N/A	Not currently available. An update will be provided by September 30, 2017.
6(vi)*	Identification of contractor or personnel performing work, including description of past project experience and level of training/qualifications necessary for work	N/A	Not currently available. An update will be provided by September 30, 2017.
6(vii)*	Contact information for special inspector (CT registered engineer with knowledge or experience with electric generating facilities) with written approval by local fire marshal and building inspector	N/A	Not currently available. An update will be provided by September 30, 2017.
6(viii)*	Certification of notice regarding pipe cleaning operations (Submitted to all state agencies listed in CGS §16-50j(g), Dept of Consumer Protection, Dept of Labor, Dept of Emergency Services and Public Protection, Dept of Construction Services, Dept of Emergency Management and Homeland Security, and local fire marshal)	N/A	Not currently available. An update will be provided one month prior to the start date for pipe cleaning. An update will be provided by September 30, 2017 regarding the anticipated schedule.
8(i)†	Description of results of simulated emergency response activities	N/A	Not currently available. An update will be provided by September 30, 2017.

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CSC Requirement Number	CSC Requirement	D&M Plan Phase 1 Construction Support Facilities	D&M Plan Phase 2 BHS 5 Design
8(ii)†	Details of any facility site access system that accounts for all personnel entering and leaving the facility	N/A	Not currently available. An update will be provided by September 30, 2017.
8(iii)†	Establishment of emergency responder/local community notification system for onsite emergencies and planned construction-related activities	N/A	Not currently available. An update will be provided by September 30, 2017.

* 15 days prior to fuel pipeline/system cleaning operations related to construction or any future facility modifications

† Submittal of Emergency Response/Safety Plan developed in cooperation with all local public safety officials, DESPP, and other emergency response officials

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Exhibit 1 – Facility Design

Since filing its Petition on March 9, 2016, PSEG has continued the detailed design of the Facility. The drawings included in Exhibit 2 provide a comprehensive overview of the features, buildings, structures, and other elements of the new plant.

PSEG has engaged Black and Veatch (B&V), an international construction and engineering firm for the detail design and construction management of BHS 5. A Project team has been mobilized on site and is currently performing geotechnical and engineering studies, and preparing to begin installation of the necessary construction support facilities.

There are minor changes in Facility layout (compared to the details presented in the preliminary drawings included in the record in Petition No. 1218) that are addressed in this D&MP Phase 2. On whole, the design now includes significantly more detail than was previously available. The changes involve relocation of out-buildings and support facilities, final elevations and footprints, addition of a floor on the administration / services building, and other refinements to the design. The major structures have not been moved, the site perimeter remains essentially the same, and the stack height is unchanged. Other changes include improvements to address regulatory matters identified subsequent to the prior PSEG filings. As an example and as noted in D&MP Phase 1, the stormwater mechanical treatment device has been modified to a different model / brand that is certified for Total Dissolved Solids removal at a level that meets the Connecticut Department of Energy and Environmental Protection (CT DEEP) requirements, and the small auxiliary mechanical draft cooling tower has been moved further away from residential noise receptors.

The extent of the minor Facility layout and other changes from PSEG's March 2016 Petition are summarized below and reflected in the drawings included in Exhibit 2.

The changes involve relocation of buildings and structures to better accommodate operational and physical needs that are specific to the relatively small size of the site. The site was rearranged to optimize the overall layout so it would fit within the confined area, reduce the amount of above ground piping, optimize locations of components to reduce overall piping lengths, and reduce noise sound levels by relocating certain buildings and equipment. These changes are reflected in the Noise Study (Exhibit 14) and include the General Services Building, Auxiliary Cooling Tower, Emergency Diesel Generator, Fuel Oil Pump Building, Firewater Pump Enclosure. Additionally, the eastern and southern roadways were modified to allow for two-way traffic and improve turning radii. The water tanks (firewater and demineralized water) were moved to the eastern side of the site to better accommodate underground pipe routing through the site.

Other minor changes include:

- Moving the ultra-low sulfur distillate (ULSD) tank south and revising the tank / containment footprint and height;

- Moving the Fuel Oil Truck Unloading Area south, closer to the Fuel Oil Forwarding Pump Enclosure;
- Modifying the Fuel Oil Truck Unloading Area to accommodate two trucks;
- Modifying the Fuel Oil Forwarding Pump Enclosure sizing;
- Moving the Fire Pump House to the eastern side of the Facility for proximity to the relocated water tanks;
- Moving the Auxiliary Cooling Tower to the eastern side of the Facility for better proximity to the water tanks / water systems and to reduce noise at the residential receptors at the western property line; similarly, the water treatment trailer / equipment area was moved to the same area at the east side of plant;
- Relocating the General Services Building and various onsite parking area layouts to better accommodate operational requirements;
- Minor changes in location and size of the various power distribution centers (PDC) to accommodate the necessary equipment and facilitate utility routings; similarly, the auxiliary and main transformer locations were moved to address utility and clearance requirements;
- Adding a third Oil/Water Separator (OWS) and locating all three OWS to improve utility routings;
- Relocating the Aqueous Ammonia Storage and Unloading Area and the bulk Hydrogen System to the western side of the Facility site;
- Moving the Warehouse/Maintenance Building to the western side of the site;
- Moved the Fuel Gas Processing Enclosure and Gas Metering Area to more closely align with the gas supply piping in the northeastern portion of the site and to reduce potential noise impacts at residential receptors; and
- Updating the layout of the Gas-Insulated Switchgear (GIS) Switchgear and Building to more optimally address equipment sizing requirements. This includes changes in building size, and removal of the cable vault and basement to better accommodate the site arrangement. The locations for disconnect switches, instrument transformers, and surge arresters have also been revised to better accommodate operations and installation. Similarly, the equipment / cable ratings for The United Illuminating Company (UI) Singer Substation interconnection have been revised from 2000A to 3000A to match the existing equipment ratings at the Singer Substation. Finally, the 345kV duct bank routing from the BHS 5 GIS Building to the UI Singer Substation has been adjusted to avoid interferences found during subsurface investigations.

The grading and drainage plans have been modified to address the physical changes noted above. In addition, the mechanical stormwater treatment device has been changed from a Vortex (centrifugal separation) unit to a cartridge filter "Jellyfish" unit that is certified for removal of at least 80% of total suspended solids. This change provides for improved overall stormwater compliance with the Connecticut and City of Bridgeport requirements.

The drawings included in Exhibit 2 also include more comprehensive design details. As examples, Limits of Disturbance are shown in more detail and modified to accommodate final

alignments, streets names have been shown, and termination points such as service water, high/low pressure gas, 345 KV line, and stormwater outfall have been identified. Separate drawings have been created to show more detail, including updated grading plans (showing contours, spot elevations, infiltration trenches and stormwater outfall) for specific portions of the BHS 5 site area.

Additional plan drawings were also created to show the details of the construction phasing plans, including identification of specific activities/structure (e.g. backfill, temporary sheet piling, etc.), and hatching was added to represent different backfill elevations and to show the phasing plan areas more accurately.

To summarize, the changes are not significant compared to the previously submitted engineering drawings and reflect a significantly expanded level of detail.

Wastewater Discharges

Preliminary Facility water balance diagrams are provided in Figures 1 and 2 in Exhibit 4. They illustrate, in schematic form, the principal water supply and wastewater discharge pathways through the Facility. Process flows, shown in units of gallons per minute (gpm), reflect Facility operation under average annual operating conditions when firing natural gas as the fuel with the auxiliary cooling tower operated at 5 and 6 cycles of concentration, respectively. Exhibit 4, Figures 1 and 2 also illustrate how internal recycle and reuse of process wastewater is incorporated throughout the Facility to improve overall water efficiency and reduce process wastewater discharge requirements.

Tables 1 and 2 in Exhibit 4 provide a summary of projected process water makeup needs and wastewater discharge flows over the Facility's expected range of operating conditions. Exhibit 4, Table 1 summarizes water needs and wastewater disposal requirements when operating on natural gas with the auxiliary cooling tower operated at 5 cycles of concentration. Exhibit 4 Table 2 summarizes water needs and wastewater disposal requirements when the Facility is operating on natural gas with the auxiliary cooling tower running at 6 cycles of concentration.

The low volume waste streams generated by the Facility will be discharged to the City of Bridgeport wastewater collection system for treatment at the West Side Water Pollution Control Facility (WPCF). PSEG will submit an Individual Permit application for Industrial Wastewater, including sanitary wastewater, to the WPCA and the CT DEEP for review and approval in November 2016. The discharge will comply with the terms and conditions of the discharge permit.

The low volume waste streams generated by the Facility will include:

- Sanitary wastewater;
- On-site water treatment wastewater;
- Evaporative cooler blowdown;
- Off-line compressor wash water;
- Plant maintenance water collected in facility floor drains;

- Heat Recovery Steam Generator (HRSG) blowdown;
- Auxiliary boiler blowdown; and,
- Auxiliary cooling tower blowdown.

As shown on the water balance diagrams, most of the process waste streams generated at the Facility will be reused as auxiliary cooling tower makeup. Discharge of process wastewater to the sanitary collection system will be limited to auxiliary cooling tower blowdown from the auxiliary cooling tower (i.e., outfall DSN 201). Process and sanitary wastewater from BHS 5 will be collected and combined in an on-site wastewater pumping station and discharged into the City of Bridgeport's collection system near the intersection of Railroad Avenue and Main Street through a new force main. PSEG anticipates that the new force main will extend in a northerly direction through the BHS property to Ferry Access Road, then westerly along Ferry Access Road to the intersection of Railroad Avenue and Main Street. At the discharge point, the collection system consists of a 60-inch gravity main, which conveys wastewater to the City of Bridgeport's West Side WPCF.

The preliminary water conditioning program for various pieces of equipment is summarized in Section 4. Section 5 addresses compliance with applicable effluent guidelines, limitations and monitoring requirements.

Sanitary Wastewater

Sanitary wastewater will be collected and conveyed to the on-site wastewater pumping station via gravity flow. It will discharge with process wastewater into the City of Bridgeport's collection system. The Facility is anticipated to employ approximately 25 people over three shifts. The average daily sanitary wastewater generation rate is expected to be approximately 2 gpm or 2880 gallons per day (gpd).

Demineralization System Wastewater

High purity demineralized water is required for HRSG makeup (i.e., boiler makeup), auxiliary boiler makeup, periodic combustion turbine washes and to control air emissions when firing ULSD. A demineralization system will be used to purify water from the municipal distribution system. Demineralization will be accomplished using reverse osmosis (RO) followed by ion exchange. A cartridge filter will be installed ahead of the RO system to remove suspended sediment. Residual chlorine, which can degrade RO membranes, will be removed using sodium bisulfite addition. Makeup water to the RO system will typically range from 40 gpm to 60 gpm when firing natural gas under full load conditions and from 625 gpm to 650 gpm when firing ULSD. The ion exchange resins will be regenerated off-site by the selected vendor.

Wastewater from the RO system (RO reject water) is expected to range from 40 to 50 gpm when firing natural gas as the fuel up to approximately 100 gpm (permanent RO reject plus supplemental RO reject) when firing ULSD. RO reject water will be directed to the General Services Enclosure sump for reuse as auxiliary cooling tower makeup. The constituents in RO reject water will have a concentration approximately four (4) to five (5) times the makeup water

concentration (i.e., 4 to 5 times their respective concentration in the municipal distribution system).

As indicated above, the ion exchange resins will be regenerated off-site by the selected vendor. Initial rinse water (used when new ion exchange resin beds arrive on-site, for example) and drain down water (used when emptying the beds prior to off-site transport, for example) will also be directed to one of the Facility's wastewater sumps for reuse as auxiliary cooling tower makeup, since initial rinse water and drain down water are not expected to meet the stringent demineralized process water makeup requirements for use in the HRSG or combustion turbine.

Combustion Turbine (CT) Inlet Air Cooler

The CT will be equipped with an inlet air cooler (i.e., evaporative cooler) to cool the inlet air stream, thereby increasing inlet air density and CT output. The inlet air cooler can be used at an ambient air temperature above 40° F, but is most effective when ambient air temperature is greater than approximately 60° F. Makeup water to the inlet air cooler will be from the service water/fire water storage tank. When running, makeup requirements are estimated to range from approximately 20 gpm to 25 gpm under peak summer operating conditions (i.e., when ambient air temperature approaches or exceeds 90° F).

Blowdown from the inlet air cooler will be routed to the HRSG blowdown sump to offset cooling tower makeup requirements. Evaporative cooler blowdown contains the naturally occurring dissolved salts and minerals contained in the makeup water, but at a concentration roughly 5 to 6 times the makeup water concentration (i.e., the concentration in the municipal distribution system) due to evaporative water loss.

Off-line Compressor Wash Water

The compressor serving the CT requires periodic cleaning to maintain operating efficiency and prevent excessive wear and tear on internal components. Compressor cleaning can be performed when the CT is on-line or off-line. Off-line washes are generally performed on a monthly or quarterly basis. An off-line compressor wash consists of injecting a demineralized water/detergent mixture into the compressor when the combustion turbine is off-line. The mixture is used to remove accumulated dust, dirt or other contaminants that cannot be removed during an on-line wash. In general, the cleaning solution will consist of approximately 25 percent detergent and 75 percent demineralized water. The resultant wastewater will be collected in the false start drain tank and trucked for off-site processing at an appropriately licensed facility.

On-line washes do not generate wastewater, as demineralized water injected into the CT during an on-line wash is lost to the atmosphere through evaporation.

Floor Drains (Plant Maintenance Wastewater)

Floor drains located in potentially oily areas of the facility will be routed to an OWS. Water processed through the OWS will be discharged to the wastewater collection sump for reuse as

cooling tower makeup. Accumulated oil will be trucked offsite and properly disposed at an appropriately licensed facility.

HRSG and Auxiliary Boiler Blowdown

HRSG and auxiliary boiler blowdown will be quenched (i.e., cooled) and reused in the auxiliary cooling tower to offset cooling tower makeup requirements. Quenched blowdown will be collected in the HRSG blowdown sump prior to reuse.

Auxiliary Cooling Tower Blowdown

When operating on natural gas, auxiliary cooling tower blowdown represents the primary waste stream requiring offsite disposal. The blowdown rate will vary depending on the allowable cycles of concentration required to control scale formation and prevent excessive corrosion. Review of water quality data from the municipal distribution system (i.e., operated by Aquarion Water Co. (Aquarion)) and projected water quality characteristics from internal reuse streams indicates that the auxiliary cooling tower would typically operate at between five and six cycles of concentration. When firing natural gas, the resulting blowdown will consist primarily of the naturally occurring dissolved salts and minerals present in the municipal water supply, but at concentrations approximately seven to eight times those of constituents in the municipal distribution system due to evaporative water loss. Blowdown rates are anticipated to range from approximately 24 gpm to 30 gpm under routine operating conditions. When firing ULSD as the fuel, auxiliary cooling tower blowdown will be approximately 33 gpm.

During periodic maintenance outages requiring draining of the auxiliary cooling tower, drain down water from the auxiliary cooling tower and circulating water system will be directed to the General Service Enclosure sump for discharge to the sewer. The total volume of the auxiliary cooling tower and circulating water system ranges between 9,000 and 13,500 gallons. Note that the auxiliary cooling tower and circulating water system can only be drained when the facility is offline (i.e., during a plant maintenance outage).

Water Conditioning Program

Maintaining proper water chemistry is critical to proper functioning and long term maintenance of the steam cycle, auxiliary cooling tower, circulating water system (i.e., piping and heat exchangers), and the RO treatment train. Table 3 of Exhibit 4 identifies the types of chemicals, dosing rates and storage containers that are routinely used at combined cycle generating facilities for this purpose.

Note that there are several potential water treatment/chemical vendors that can be selected to satisfy the water conditioning needs for the facility. As such, adjustments to the water conditioning program may occur during final design or when a water treatment/chemical vendor is selected prior to facility startup. Although different vendors offer their own blends of conditioners, the overall water conditioning program will be consistent with the types of chemicals listed in Table 3 of Exhibit 4.

Compliance with Effluent Limitations

Process wastewater discharged directly to the sewer for treatment at the West Side Water Pollution Control Facility will comply with the Effluent Guidelines and Standards for the Steam Electric Power Generating Point Source Category listed at 40 CFR 423.17 entitled "Pretreatment Standards for New Sources" (PSNS). In addition, under normal operating conditions, constituent concentrations in the discharge would be less than those allowed under the CT DEEP's General Permit for Miscellaneous Discharges of Sewer Compatible (MISC) Wastewater.

Stormwater runoff from the site will be managed in accordance with the CT DEEP's Stormwater Management Regulations and will discharge directly to receiving waters (i.e., Bridgeport Harbor) in accordance with the CT DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activity.

Flood Mitigation Plan / Floodplain

The proposed Facility is considered an infrastructure facility and will be located adjacent to existing infrastructure facilities. The majority of the site's shoreline is currently armored with a stone revetment, to protect the existing BHS facilities against flooding and erosion. Therefore, there are no natural shorelines currently existing on site.

The flood mitigation plan consists of raising the site grade. In the event of a coastal storm or other threat of flooding, PSEG implements severe weather plans, which include housing critical / key associates at the Project site, for the duration of the event. If the region were to become inaccessible, adequate staff would be available onsite to operate and maintain the Facility. All design features that are necessary for ongoing operations are located above the 500-year flood elevation, or protected from flooding.

Due to the relatively small size of the site and the existing buildings and infrastructure, the proposed Facility cannot be relocated to be outside of a floodplain. To provide for storm hardening for this critical waterfront energy infrastructure, the elevation of the Project site will be raised by approximately 7 to 10 feet, to above the existing 500-year Federal Emergency Management Agency flood level. Grade changes will be accomplished through use of structural retaining walls and import of fill to accommodate the increase in grade with the smallest feasible structural footprint.

The 500-year flood elevation is 15.3' North American Vertical Datum 1988 or "NAVD88." The minimum site grade is 16.5' NAVD88 and the minimum sheeting elevation is 20.0' NAVD88. Sheeting will likely be at an elevation up to 21.75' NAVD88. The new plant's overall footprint fully utilizes the area within the retaining wall, and as such, there is no physical room to incorporate slopes or other natural features to accomplish the required grade changes, as further discussed below.

Due to the size of the site and the occupation of the existing buildings and infrastructure, there is not sufficient room at the site to use a simpler earthen berm with sloped face.

Since the proposed retaining wall will be located further inland and the shoreline is currently armored, the proposed retaining wall will not eliminate the natural buffer for coastal flooding and erosion, will not alter natural rates of erosion or sedimentation, will not interrupt sand supply, will not reduce valuable recreational opportunities, will not destroy critical wildlife habitats, and will not detract from the visual quality of a natural shoreline.

Because the site is already armored with a stone revetment, the proposed retaining wall will not be impacted by daily wave action. Therefore, the risk of wave energy being redirected and causing erosion or scouring of sediments is essentially non-existent, except in extreme coastal events. Also, the threat of wave energy undermining the structure has been considered in the design and is extremely low, so therefore evaluated as negligible.

In conclusion, due to limited Project area and the inability to reduce the size of the Facility, the proposed retaining wall is in compliance with the intent of the coastal policies related to floodplains.

Spill Containments

The Project Spill Prevention, Control and Countermeasures (SPCC) Plan is included as Attachment 18.

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Exhibit 2 – Facility Drawings

The drawing set is included separately consistent with the Table of Contents. One Connecticut Professional Engineer signed / sealed copy and 15 sets of rolled drawings are provided.

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Exhibit 3 – Miscellaneous Construction Planning and Design Overview and Updates

To supplement the information provided in D&MP Phase 1, several updates are included below:

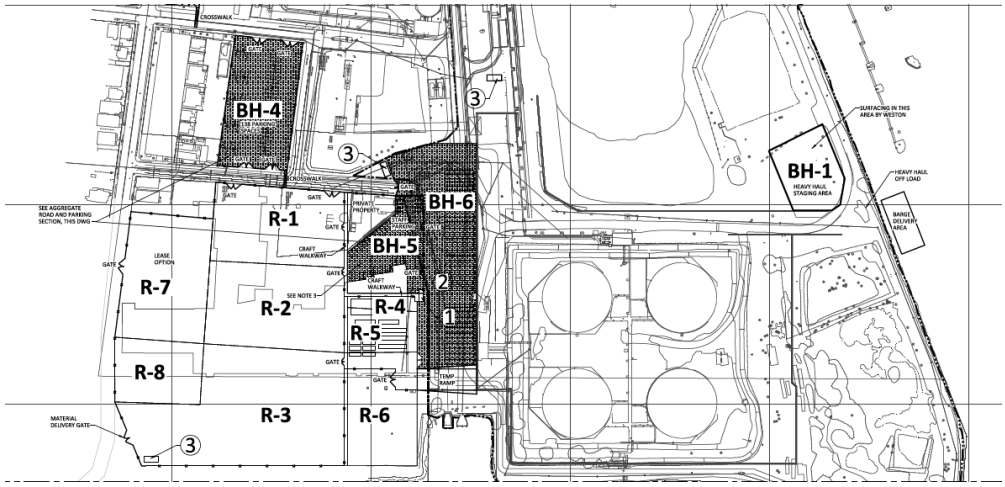
Construction

PSEG is continuing to review work scope with CT DEEP Air Group that may be implemented prior to the receipt of the NSR permit. As noted in the D&MP Phase 1, these activities include Construction Support Facilities. PSEG is also evaluating whether work generally classified as removal of interferences and existing utilities within the footprint of the new plant is allowable. No determination from CT DEEP has been requested at this time. Regardless, no permanent scope will be constructed, including fill or soil strengthening activities until the NSR permit is received.

Construction traffic impacts have been analyzed. The Traffic Impact Study is included as Exhibit 11. It was filed with the City of Bridgeport as part of the Coastal Site Plan application on August 31, 2016.

In the Traffic Impact Study, the construction workforce was conservatively assumed to be 450 workers. This is an increase from the prior estimate of 350 workers to ensure that the Traffic Impact Study did not underestimate potential impacts. Parking areas that are intended for use, as described in D&MP Phase 1 are adequate for the required parking requirements. If needed, car pooling and / or bussing from remote parking locations will be implemented.

Onsite and offsite construction support facilities plans are essentially the same as provided in D&MP Phase 1 with one exception. Since the submittal of D&MP Phase 1, PSEG has executed a lease agreement for up to approximately thirteen acres of an adjacent property that is intended for parking, laydown, and limited trailer use. This is the former Remington Shaver property, located immediately to the west of the Project site. The sketch below shows the Remington property with "R" designations. Specific uses for the various "R" areas have not been determined at this time, and PSEG may not use all of those labeled as R-3, R-7 and R-8. The buildings on the property have been removed by the owner and PSEG does not expect to improve the property to support construction uses beyond any improvements made by the property owner. The addition of this property ensures that there is adequate space for both craft labor personnel to park, and for laydown close to the BHS 5 jobsite.



Remington Leased Property ("R"-Designated Areas)

The project work hours have been established as a ten-hour work day, generally between 7:00 a.m. and 6:00 p.m., Monday through Friday. Different crafts may have different start times, based on construction requirements. For critical path activities, limited Saturday hours will be employed. A limited second shift and minimal Sunday work is expected, exclusive of site security presence, as required. Large scale construction and demolition activity will not be performed between 6:00 p.m. and 7:00 a.m. on weekdays, or between the hours of 6:00 p.m. and 9:00 a.m. on weekends and Federal holidays.

As noted, there will be some weekend and night work for certain items critical to Project progress. Site work planning will take work hour and noise limitations into account to ensure that the Connecticut noise limits at the nearest residence for daytime (61 dBA) and nighttime (51 dBA) are met. Certain construction activities are exempt and there may be short periods (such as during daytime pile driving) where noise may exceed these limits during the normal work week. No nighttime work will be scheduled that will exceed the nighttime limits.

The Noise Study (Exhibit 14) was updated and filed with the City of Bridgeport as part of the Coastal Site Plan application filed on August 31, 2016. It revalidates the prior conclusion that the operation of the Project will meet both City and State noise requirements at all times.

Security fencing and gates for both the Project site and the laydown / parking areas are included in Exhibit 2. Refined trailer layout plans are also shown.

PSEG will consult with CT DEEP regarding the potential to disturb nesting osprey on and near the site. If appropriate, nests will be removed during the inactive season (winter) to ensure construction does not impact the osprey.

Site Fill and Foundations

The quantity of engineered fill necessary to raise the Project site to the minimum elevation of 16.5 feet NAVD88 is estimated at 180,000 cubic yards, plus or minus 15%.

Initial soil / geotechnical studies indicate that a silt layer beneath portions of the Project site will require grout injection to reduce settlement.

The existing site elevation ranges between elevation eight and nine feet NAVD88. Approximately nine to ten feet of fill will be required to build up the site to the proposed final elevation of 18 feet NAVD88 for BHS 5. Based on historical data and information from the subsurface investigations, the design groundwater is assumed at elevation 3.5 feet NAVD88.

There are two distinct soil profiles on the site. The first consists of the existing fill layer, underlain by a sand layer interbedded with two layers of silt, underlain by rock. The layers of silt are 6 and 14 feet thick, and are of soft and stiff consistency. The second soil profile consists of the existing fill, underlain by a sand layer underlain by a silt layer, underlain by sand until rock is encountered. The location of the silt layer follows a horseshoe shape, and the thickness of the silt is varies between 55 feet and 20 feet.

Preliminary calculations have shown that silt layer may have a settlement risk (consolidation) due to the proposed fill required to raise the site to elevation 18 feet NAVD88. Due to the expected settlement, and the thickness of the soft silt layer, soil improvement will be required to limit the settlements due to the fill to acceptable levels.

The proposed soil improvement method consists of installing grout "columns" embedded into the sand layer that underlays the soft thick silt layer and the installation of a load transfer "platform" (i.e. the compacted fill). The purpose of this platform is to distribute the load from the fill to the lower sand layer though the grout columns. The grout columns consist of grout elements installed using a displacement auger, reaching the desired tip elevation, and filling the hole with grout after the auger is retrieved from the soil. This will allow the transfer of the load from the fill to the lower sand layer. At this time the design spacing of the grout columns is not complete, but typical values include 18-inch diameter augers, with a center to center spacing of seven to ten feet. Due to the displacement tool used during auguring, the soils are displaced sideways into the in-situ soil, limiting the amount of spoils observed at the ground surface, and at the same time densifying the soil.

The use of the grout columns will allow for the placement of the fill material and lightly loaded structures. Deep foundations (driven steel piles) will be used for critical structures and structures with high bearing loads.

Emergency Diesel Generator

A standby service backup emergency diesel generator (EDG) will be installed to provide secure power during blackout events. This is required to maintain essential station electrical services such as battery charging, digital control system (DCS) power, safe equipment shutdown, turbine

and other lubrication oil pump power and essential building loads. The EDG is sized to also provide power to the electric firewater pump and associated auxiliaries including the fire system jockey pump during blackout events.

A self-contained 480V, approximate 2000KW Caterpillar (or "CAT") water cooled diesel generator will also be installed. It will be located in an outdoor enclosure with an integral 12-hour subbase steel fuel tank (approximately 2000-2500 gallons of diesel storage). The fuel tank will be UL 142 listed and will be designed with double wall containment sized with a 110% rupture basin to provide secondary containment. The engine is equipped with a package mounted radiator and jacket water heater with pump.

The EDG lube oil system will include lubricating oil, full flow oil filter(s), an engine driven gear-type oil pump, integral lube oil cooler, necessary pressure and temperature sensing devices, and a standard sump oil pan and lubricating oil drain. Used engine oil from the unit will be discharged into drums. The EDG's lubricating oil capacity will be approximately 110-125 gallons.

HRSG Stack Lighting

PSEG has renewed the Federal Aviation Administration (FAA) Determination for the BHS 5 HRSG stack. As previously noted, the stack is 300 feet high (above minimum site grade), with a top elevation of approximately 316.5 feet NAVD88, taking the site grade into account. The renewed FAA Determination was issued on October 24, 2016 and is effective for eighteen months (until April 24, 2018). If construction has not started by that date, PSEG would need to re-apply to the FAA.

The lighting that is required includes medium intensity flashing white lighting during daytime and twilight and red lighting at night. The FAA Determination requires marking / lighting "in accordance with FAA Advisory Circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, a med-dual system – Chapters 4, 8 (M-Dual), & 12."

The required dual day / night lighting alone complies with the FAA Determination and Advisory Circular and no orange / red and white painting scheme is required. Generally, the lighting that is required will include medium intensity flashing white lighting during daytime and twilight and red lighting at night.

The Bridgeport HRSG stack Obstruction Marking and Lighting system will be in accordance with the noted FAA Advisory circular. The system consists of four (4) sets of dual L-864/L-865 lights installed within 20 feet of the top of the stack, red lights (L-864) for nighttime and medium intensity flashing white lights (L-865) for daytime and twilight. The lights are automatically switched by a calibrated photocell device for day / night operation. No intermediate obstruction lights are required. The red obstruction lights will be operated by a control device adjusted so the lights will be turned on/off when the sky illuminance reaches set levels. The lights may also remain on continuously based on lighting conditions.

Containment Designs

PSEG submitted containment design calculations with the City of Bridgeport Coastal Site Plan application on August 31, 2016. Containments are sized for 110% of the container inventory plus 6" of rain. This is consistently applied for all of the tanks onsite. The same criteria is applied to transformer containments. As noted in the Spill Prevention, Control and Countermeasures Plan (Attachment 18), PSEG employs a visual inspection process prior to release. The exception to this is the transformer containments / vaults, which are each permanently piped to one of the three OWS included in the site design.

Safety and Security / Site Access Controls

The Project is implementing a Loss Control Program to provide an administrative structure for the safety and health of workers on the Project site, and for the protection of the environment and property. The requirements will be passed down to all contractors and subcontractors.

The Project Loss Control Program includes the site access controls that will be implemented for all workers on the Project site. Details will be incorporated into the appropriate procedures. The program will include Project security rules for the protection of all persons involved with the construction of the Project. As the Project nears completion, the security requirements will be incorporated into the overall site security plans. The requirements apply to PSEG (or designated construction management firm) and contractor personnel, as well as visitors to the jobsite.

(1) Identification and Employee Access--All full-time (40 hour per week) site construction personnel will be issued a site identification badge that remains the property of PSEG. When applying for site access, each person will receive a general orientation, which will include receiving written safety and health regulations, security regulations, and general work rules. Each person will be required to sign a confirmation of receipt of the site work rules.
(2) Vehicle Operation--PSEG will determine the number of and need for vehicles to be on the Project site and will issue onsite parking passes accordingly. Operators of vehicles will be required to observe all traffic control devices, including speed limits, "no passing," "stop," and all other posted signs. Failure to obey traffic control devices will result in disciplinary action to include removal of site driving privileges.
(3) Inspections--Security officers will use spot inspections of individuals' carried or worn items on a daily basis as an antitheft and contraband control technique. Refusal to cooperate with the inspection program will result in removal of the employee from the Project site. Vehicles entering or leaving the Project site will also be subject to inspection at any time by security officers.

Visitors will not be permitted to enter the Project site without proper clearance and identification. Visitors are bound by the same security procedures as employees.

When the Project nears completion, PSEG security, access control, and other construction site procedures will be reviewed and revised / updated as appropriate to ensure that effective controls remain in place during the transition of the Project from construction to operations. The same

procedural framework used by the current BHS Unit 3 and Unit 4 Operations Management team will be implemented, as appropriate.

City of Bridgeport / Connecticut Department of Energy and Environmental Protection

PSEG is continuing to provide Project scope and status overview information to the City of Bridgeport and CT DEEP. As part of the commitments contained in the Community Environmental Benefits Agreement between PSEG and the City, PSEG will engage in discussions as necessary to assure that the project is complementary to the U.S. Department of Housing and Urban Development (HUD) coastal resiliency planning. PSEG anticipates that these discussions will continue for several years, as they are expected to include potential future public access concepts as well as the plans associated with the retirement of BHS Unit 3.

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Exhibit 4 - Water Use Summary - Water Balance Diagrams

Water is required for several functions associated with the clean and efficient operation of BHS 5. Process water is needed for steam cycle makeup (i.e., HRSG makeup), auxiliary cooling tower makeup, plant maintenance, inlet air-cooling, compressor cleaning, and air pollution control (i.e., NOx injection water when firing ULSD). It is also required to meet the Facility's potable water needs. Potable and process makeup needs will be satisfied through withdrawals from the municipal distribution system, which is owned and operated by Aquarion. Aquarion has provided a "Will Serve" letter to the Project, confirming its ability to satisfy Facility water demands.

To minimize Facility water supply needs, an air-cooled condenser (ACC) will be used for steam cycle heat dissipation, rather than relying on once-through or evaporative cooling technologies. In addition, the Facility's water balance has been optimized to incorporate internal recycle and reuse of process wastewater from low volume waste streams, including: RO reject water, HRSG (i.e., boiler) blowdown, evaporative cooler blowdown, plant maintenance water (i.e., Facility floor drains) and HRSG sample drains. These low volume waste streams will be recycled and reused to offset makeup water needs for the Facility's auxiliary cooling loop. By design, BHS 5 will be one of the most water-efficient combined cycle electric generating facilities statewide.

Facility water balance diagrams are included below. They illustrate the principal water supply and wastewater discharge pathways through the Facility. Process flows, shown in units of gallons per minute (gpm), reflect Facility operation under average annual operating conditions when firing natural gas as the fuel with the auxiliary cooling tower operated at five and six cycles of concentration, respectively. The water balance diagrams also illustrate how internal recycle and reuse of process wastewater is incorporated throughout the Facility to improve overall water efficiency and reduce process wastewater discharge requirements.

The tables below provide a summary of projected process water makeup needs and wastewater discharge flows over the Facility's expected range of operating conditions. Table 1 summarizes water needs and wastewater disposal requirements when operating on natural gas with the auxiliary cooling tower operated at five cycles of concentration. Table 2 summarizes water needs and wastewater disposal requirements when operating on natural gas when the auxiliary cooling tower is operated at six cycles of concentration.

When using natural gas as the fuel, projected average daily water supply needs for BHS 5 are expected to range from approximately 155 gallons per minute (gpm) to 190 gpm. This estimate assumes that the Facility is operating at 100% capacity (i.e., under full load conditions). When ULSD is used, water needs are expected to range between 650 gpm and 680 gpm at full load, as additional water is required for air pollution control purposes (i.e., water injection for controlling nitrous oxide [NO_x] emissions). Note that when firing ULSD, the auxiliary cooling tower is anticipated to operate at a slightly lower cycle of concentration (4.7) dependent upon which water treatment process is used (reverse osmosis and/or ion exchange). PSEG anticipates that ULSD will primarily be used during extreme winter operating conditions when natural gas supplies are prioritized to satisfy winter heating demands (i.e., during natural gas curtailments).

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Exhibit 5 – Permitting Status Update

PSEG has obtained updated natural diversity data base (NDDB) and State Historic Preservation Office (SHPO) reviews of the Project, dated March 12, 2016 and March 21, 2016 respectively. If construction has not started within one year of these dates, PSEG will pursue revalidation with CT DEEP and SHPO.

CT DEEP is expected to issue the Notice of Tentative Determination (NTD) for three New Source Review (NSR) permits associated with the project in November 2016. The public comment period will follow.

The three NSR permits are for Unit 5, the Auxiliary Boiler, and the Emergency Diesel Generator. During reviews with CT DEEP, reductions in the Volatile Organic Compounds were included, that further reduced overall emission from the new unit.

While currently unrelated to BHS 5, PSEG has filed an application for a Title V air permit renewal for the existing BHS Units 3 and 4. CT DEEP has indicated that the addition of BHS 5 to the Title V permit will follow either later in 2017 or in 2018.

The permit summary matrix is included below.

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Agency and Permit Type / Name	Comments / Description	Permit Application Submission	Receive Authorization	Notes
Connecticut Department of Energy and Environmental Protection (CTDEEP) / U. S. Environmental Protection Agency (USEPA) - Region 1 (New England)				
1. New Source Review (NSR) (also fulfills Prevention of Significant Deterioration (PSD) requirements)	Application currently under review.	3/2/2016A	03/31/17	Amendment 3 filed August 9, 2016
2. Major (i.e. non-minor) modification of the existing Title V Air Permit		05/31/17	10/31/17	May not require an application; CT DEEP may incorporate NSR inputs directly.
Federal Aviation Administration (FAA)				
1. Notice of Proposed Construction or Alteration - HRSG Stack	**COMPLETE: Renewal of existing notification (received 4/20/2015) for HRSG stack. A renewal application was filed 9/20/2016.**	Renewal of current approval filed 9/20/2016	**10/24/2016A**	Renewed FAA Determination for HRSG stack received 10/24/2016; it expires 4/240/2018 if construction has not started.
2. Construction Cranes	Cranes as needed in excess of 200 feet in height	11/04/16	01/02/17	
U.S. Army Corps of Engineers (USACE), New England District				
1. Wetland Jurisdictional Determination	**Complete**	4/28/2016A	**8/1/2016A**	
U.S. Coast Guard (USCG)				
1. Facility Response Plan (PSEG). Update to reflect new tanks.		TBD	TBD	
2. USCG approval for spud barge mooring	Authorization to station spud barges within Bridgeport Harbor during construction	12/01/16	02/01/17	
Connecticut Siting Council (CSC)				
1. Declaratory Ruling	**Complete**	3/9/2016A	**7/21/2016A**	
2. Development and Management Plan Phase 1 for Construction Support Facilities	**Complete: Required CSC approval for construction support facilities**	09/20/16	**10/27/2016A**	Limited approval for construction support facilities received 9/29/2016
3. Development and Management Plan Phase 2 for New Unit 5 Construction	Full new build design	10/31/16	12/31/16	
Connecticut Department of Energy and Environmental Protection (CTDEEP)				
1. Environmental Justice Public Participation Plan	**Complete**	8/8/2014A	**8/15/2014A**	
2. Final Environmental Justice Report	**Complete**	**8/11/2015A**	N/A	
CTDEEP, Office of Long Island Sound Programs				
1. OLISP Structures, Dredging and Fill Permit	Stormwater outfall and dock reconstruction	9/16/2016A	12/16/16	
2. General Permit for Coastal Maintenance	Temporary shoreline improvements for barge unloading.	8/31/2016A	11/30/16	
3. Certificate of Permission	Dock Repair / Reconstruction	TBD	TBD	Schedule not established - 2018 Construction
CTDEEP, Bureau of Materials Management and Compliance Assurance				
1. National Pollutant Discharge Elimination System Modification	Not Required for BHS 5	N/A	N/A	No surface water intake or discharge
2. Individual Permit for Industrial Wastewater	Wastewater to WPCA	10/31/16	12/31/16	Review by WPCA complete, prior to submittal to CT DEEP
3. General Permit for the Discharge of Stormwater Associated with Industrial Activity	Filed concurrently with SWPCP for information; formal inclusion in site registration to follow.	11/29/17	01/31/18	This will incorporate the new plant into the site stormwater registration. Filing expected in 2017.
4. General Permit for Stormwater and Dewatering Wastewaters from Construction Activities	SWPCP	11/29/16	01/31/17	Filing after forecast City CSP approval.
City of Bridgeport				
1. Coastal Site Plan Approval		8/31/2016A	11/28/16	
2. Construction Permits (Structural, Mechanical, Electrical, Plumbing, HVAC, Sewer Connection, Road Opening)	As Required	12/21/16	01/31/17	Initial Filings; numerous building permit packages will be issued
City of Bridgeport Water Pollution Control Authority (WPCA)				
1. Industrial Wastewater Sign-off prior to CT DEEP submittal	Required for facility discharge of wastewater to POTW	8/31/2016A	**9/30/2016A**	Informal WPCA review complete
Other				
1. Aquarion Water Supply Will Serve Letter	**Complete**	8/5/2016A	**8/31/2016A**	Will Serve Letter Received
Note: "A" = Actual				

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Exhibit 6 – Construction Schedule Update

The following major schedule activities are anticipated for the construction of BHS 5. Start dates are shown. A detailed construction milestone schedule is also attached below.

1.	Forward Capacity Auction No. 10	February 10, 2016
2.	Completion of City of Bridgeport Land Use Permitting	November 2016
3.	Completion of Non-Air CT DEEP Permitting	January 2017
4.	Initial City of Bridgeport Building Permitting	January 2017
5.	Receipt of CT DEEP Final Air Permit	March 2017
6.	Initiation of Field Construction Activities	March 2017
	a. Temporary Construction Facilities	November 2016
	b. Site Work	April 2017
	c. Foundations	July 2017
	d. Initial Equipment Erection	September 2017
	e. Major Equipment Delivery (Turbines, HRSG, etc.)	October 2017
	f. Switchyard and Transformer Installation	June 2017
	g. Gas Turbine Generator (GTG) Installation	December 2017
	h. Start-up Testing and Commissioning	January 2019
7.	Operational Testing (first GTG operations)	November 2018
8.	Balance of Plant Initial Start-up	September 2018
9.	Performance and Reliability Testing	March 2019
10.	Target Completion	April 2019
11.	Commercial Operations	June 2019

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Exhibit 7 – BHS Unit 3 Tank and Unloader Construction Status as of October 31, 2016

As part of a separate Bridgeport Harbor Station Unit 3 (Unit 3) project, PSEG has completed the construction of a new fuel oil storage tank with an associated fuel unloading facility. Three of the four existing No. 6 fuel oil tanks have been demolished. Three small existing underground light fuel oil storage tanks will be removed and remediation of the tank farm and fuel tank areas disturbed by the Project will be completed in early to mid-2017. The new fuel oil tank and system is currently being commissioned and tied-in to Unit 3 during a scheduled maintenance outage.

The new Unit 3 Fuel Oil Storage Tank Facility, including a fuel oil forwarding pump house and truck unloading area, replaces the existing Unit 3 fuel oil storage tanks. The remaining No. 6 oil tank (Tank "B") will be fully removed following tie-in of the new tank and unloading facilities to Unit 3. The "B" No. 6 fuel oil tank has been emptied to barges, and is the process of being cleaned, prior to demolition, which is expected to be completed by the end of November 2016. The removal of the three smaller underground storage tanks located to the north of Unit 3 is currently scheduled to be performed after the tank farm remediation is completed, during the first half of 2017.

As part of this project, limited site remediation will be performed on the disturbed areas, in accordance with the CT DEEP-approved Revised Remedial Action Plan dated August 2004 (and a recent addendum dated August 2016). The City of Bridgeport approved the Unit 3 Fuel Oil Storage Tank Project as part of a Coastal Site Plan on April 26, 2016. Work commenced on May 31, 2016.

At this time, mechanical, electrical and control tie-ins are in process and it is expected that the new tank will be commissioned for Unit 3 use by November 5, 2016. The project is on schedule.

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Exhibit 8 - Status of BHS Unit 3 Tank Farm Demolition and Remediation

As part of a separate project, PSEG has removed three of the four No. 6 fuel oil tanks that are on the southern portion of the BHS site.

Fuel Oil Tank Foundation Removal
Viewed from "B" Tank looking South

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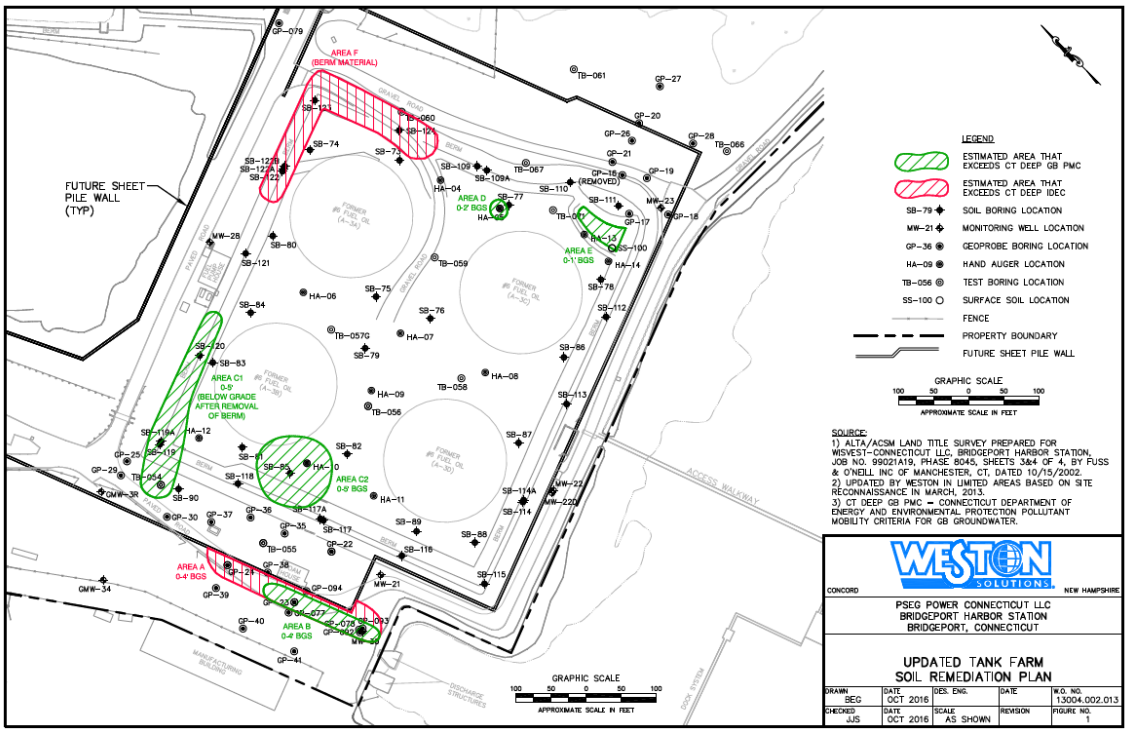
The required Unit 3 remediation will follow the removal of the fourth tank in November 2016. An addendum to the Revised Remedial Action Plan (RAP) (originally filed August 2004) was completed and approved by the Licensed Environmental Professional on August 17, 2016.

PSEG has obtained additional soil sampling / boring data for the tank farm areas and containment berm to assess contamination levels and determined which material is suitable for unrestricted reuse on the site. A current map of the contamination is included below; it shows a reduced contamination footprint from prior estimates.



The underlying soil in the tank farm area will be remediated to attain compliance with the CT DEEP Remediation Standard Regulations (RSRs). In accordance with the approved Revised Remedial Action Plan Addendum (Revised RAP Addendum) dated August 17, 2016, the soil remediation will consist of excavation, relocation, off-site disposal, and on-site capping of the polluted soils.

Collection and analysis of subsurface soils beneath the tank farm and adjacent areas has shown that certain compounds are found at concentrations exceeding the RSRs. Oily soils were observed in at least two areas of the tank farm. Concentrations of petroleum (ETPH) and trichloroethene (TCE) were found to exceed the groundwater classification level "GB" Pollutant Mobility Criteria (PMC) for leaching to groundwater in several locations, including a moderate-sized area extending westward both inside and outside of the tank farm containment berm, south of the Foam House. Concentrations of ETPH and polycyclic aromatic hydrocarbons (PAHs) were found to exceed the Industrial Direct Exposure Criteria (IDEC) for worker exposure over a larger area near the middle of the tank farm and also extending westward beneath the Foam House.

Remediation of contaminated soils not in compliance with the RSRs is required for verification (closure) of the site under the CT DEEP regulations. Specifically:

1. Soils that contain residual oily material or TCE at concentrations exceeding the GB PMC will be excavated and disposed off-site. This is now believed to up to 1000 cubic yards (cy) (reduced from prior estimate of 2000 cy).

2. Soils that exceed the PMC for ETPH will be environmentally isolated by placing them beneath a future impermeable permanent structure. This is estimated to range from 3000 to 7000 cy.

3. Soils that exceed the IDEC will be rendered inaccessible by placing them beneath an orange geotextile warning layer and covering them with at least four feet of clean fill, or two feet of clean fill and at least three inches of asphalt pavement.

4. Soils that do not exceed the IDEC or PMC may be reused on-site within the footprint of the proposed sheet pile wall.

The work will be performed in two phases: Phase 1 in the Unit 3 area will focus on removal of soils requiring off-site disposal and relocation/staging of contaminated soil. Phase 2 will be performed after the BHS 5 NSR Air Permit has been issued and will focus on final placement and capping of the polluted soils. The current design and construction sequence for the foundations and utility installation will be considered in the second phase of the work.

Appropriately trained and qualified workers will be used for the remediation scope in both phases of the work. As noted, remediation is expected to begin in late November 2016, with Phase 1 completion in February 2017 and Phase 2 substantial completion in June 2017 or shortly thereafter.

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Exhibit 9 – Potential for Waste Heat Reuse

PSEG has had discussions with a firm interested in further evaluating the possibility and feasibility of using up to a maximum of 72,000 MBtu/hr of "low grade" energy from BHS 5. The low grade energy would be used to heat 125 psig water used in a local hot water heating distribution system from 165° F to 200° F.

Conceptual studies have begun for this work. However, no changes in the current plant design will be implemented until after the Facility is commissioned. Additionally, tie-in piping and instrumentation through the surrounding community will be involved.

A portion of the low grade energy source is anticipated to be waste heat from HRSG blowdown and the stack. A significant portion (approximately 80% to 85% of the low grade energy) may result in a reduced electrical output from BHS 5. This loss of electrical production has not been quantified at this time. Feedwater and low pressure steam will also be considered as sources to supplement any waste heat that can be recovered from either the blowdown or the HRSG stack heat. As part of the evaluation, the comparative costs and values of energy supplied to the hot water heating distribution system versus energy to produce electrical output will be studied.

PSEG will continue to evaluate this possibility during construction of the Facility and anticipates making the business decision and any necessary plan modifications in 2019 or beyond.

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Exhibit 10 - Status of Fuel Oil Dock Repair Project

PSEG will provide the details of the Fuel Oil Dock design to the CSC by September 30, 2017. The repairs and field work will be initiated in 2018. A detailed schedule has not been determined at this time and the detailed engineering has not been started. The project is not critical to any near term BHS Unit 3 or BHS 5 needs and as such, is being scheduled at a later date for resource leveling purposes. As noted in D&MP Phase 1, another consideration is enssuring that PSEG can avoid any interference with the construction of BHS 5 along the southern edge of the site. Civil construction of the retaining wall, fill, stormwater outfall, etc. on the southern portion of the site will be completed prior to the initiation of fuel oil dock repairs.

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Exhibit 11 – Traffic Impact Study

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Exhibit 12 - Status of The United Illuminating Company Exempt Modification Request

PSEG and The United Illuminating Company (UI) project and engineering management have had ongoing discussions regarding the planned 345 KV Generator Lead from BHS 5 to the Singer Substation. PSEG received a copy of UI's Exempt Modification request filed with the CSC on September 29, 2016.

The completion date for the 345 KV circuit to be installed by PSEG and terminated at the Singer Substation is expected to be prior to summer 2018.

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Exhibit 13 – Copy of The United Illuminating Company September 29, 2016 Filing with the Connecticut Siting Council

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Exhibit 14 – Noise Study

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Exhibit 15 – Stormwater Pollution Control and Prevention Plans

The construction Stormwater Pollution Control Plan (SWPCP), including the post-development structural stormwater management system design, was submitted to the City of Bridgeport for review as a component of the Coastal Site Plan application. The Coastal Site Plan submittal remains in review with the City. Per the CT DEEP regulations, the SWPCP will be submitted to CT DEEP after PSEG receives the City of Bridgeport Coastal Site Plan approval. This is currently projected for submission in December 2016.

A copy of the SWPCP text, documenting compliance with erosion and sediment control and post construction stormwater management requirements, is included as Exhibit 16. Multiple detailed calculations were included in the City approval package but have been omitted for clarity.

A Spill Prevention, Control and Countermeasure (SPCC) Plan was also developed for Unit 5 as a supplement to the industrial wastewater permit application package. A copy of the SPCC is included as Exhibit 18.

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Exhibit 16 – Copy of Submitted Stormwater Pollution Control Plan

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Exhibit 17 – Renewed FAA Determination

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Exhibit 18 – Spill Prevention Control and Countermeasures Plan

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Exhibit 19 – Decommissioning Plan

In accordance with the Connecticut Siting Council's July 21, 2016 Decision and Order, PSEG is providing the Facility's Decommissioning Plan (Plan).

Useful Life Of BHS 5 / End of Life Decommissioning

State-of-the-art combined-cycle generating stations have an expected operational life of 40 to 60 years. A well maintained facility may exceed this. Life extension considerations can be readily accomplished through scheduled and programmed preventive maintenance and replacement of individual components as they wear. During a multiple decade lifespan, technological advances will result in more efficient and cost-effective power generation equipment that will economically drive the replacement of the existing equipment.

This Plan establishes the approach for decommissioning activities at the time a business decision is made to permanently cease operations at BHS 5. This is anticipated to result from a technical conclusion that the existing equipment cannot be cost-effectively maintained or replaced. This Plan describes the approach for removal and/or abandonment of facilities and equipment associated with the Facility's operation.

PSEG has a capacity obligation with the independent system operator, ISO New England, Inc. PSEG anticipates continuing to offer power to the market, using the regulatory and other available methods to do so. At the conclusion of operations, PSEG will work with the City of Bridgeport to evaluate and establish requirements to decommission, dismantle and dispose of the BHS 5 facilities in good and workmanlike fashion at the end of its useful life. This will also include the necessary and proper restoration of the site.

Decommissioning Activities and Preparations

PSEG will perform decommissioning activities in accordance with the legal and regulatory requirements in place if and when the decision is made to cease power production at the site. The activities discussed below are based on current best practices and may be modified based on best practices at the time of decommissioning. Decommissioning will involve removal and proper disposal or recycling of BHS 5 components. Opportunities for re-use of components by others will be pursued. Non-recyclable materials will be properly disposed of at an appropriately licensed disposal facility.

The initial phase of the decommissioning process is preparation of the site for decommissioning. Access roads, utilities, fencing, and electrical power will not be removed until they are no longer needed. Future "brownfield' re-use of the site for other commercial, industrial or other occupancies will dictate the extent of removal that will occur. Demolition debris will be staged as required in both on-site or off-site storage areas until transportation and disposal/recycling is completed.

The power generation equipment contains significant metal components and is expected to be recycled. Any components that will not be used will be removed from the site. Other site components will be sold, recycled or transported off-site for disposal as appropriate. Concrete foundations and pads will be broken up and/or removed to an appropriate depth below the ground surface. The underground utilities, conduits and cables contain no materials known to be harmful to the environment, and as such, will be evaluated for abandonment in place. As determined at that time, utilities will be removed to an appropriate depth below the ground surface, as necessary to either support future development of the site, or not impede any such development.

It is expected that the sheeting and raised site (minimum elevation is 16.5 NAVD88), which is above the current 500-year flood elevation, will be retained. While sea level rise considerations are not precisely known, historic trends indicate that the higher elevation of the site may serve to support a subsequent occupancy. As such, the onsite access driveway and roads will remain in place if deemed beneficial for the future use of the site.

As can be anticipated, the future use of the site is undetermined at this time. But if a decision is made to completely remove the features and elements of BHS 5, roads that will not be re-used will be restored to pre-construction conditions by removal of the sub-grade base materials, filled as required to match existing grades and soils, and seeded with a seed mix to match regional and other existing onsite groundcover, as a means to ensure erosion considerations are addressed. The perimeter security fences and appropriate signage will remain in place during decommissioning activities for site safety and security purposes. The fence may remain after decommissioning if beneficial for a future use; PSEG anticipates that this is likely, given the character and nature of the surrounding occupancies.

As to other utilities, the natural gas interconnections, including metering and compressor facilities, will be evaluated for removal and / or termination in accordance with the engineering requirements of the natural gas supplier / utility. At the time of decommissioning, if it is determined that the natural gas line and/or metering station will be beneficial for the future use of the site, the line and metering station may remain after decommissioning.

Finally, an important consideration is the requirement of the Community Environmental Benefit Agreement between PSEG, the City, and various neighborhood and community groups that the parties work together to evaluate and future reuse of the site.

In sum, PSEG will work with the City of Bridgeport and other regulatory and community entities to develop detailed use plans for the site. At this time these cannot be determined. The useful life of BHS 5 is expected to be 40 to 60 years, and potentially longer. The future national trends associated with energy use, penetration of renewables and offsetting of the use of fossil fuels are not known at this time, and therefore no clear date can be established for decommissioning.

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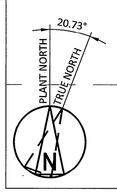
Exhibit 20 – PSEG Fossil Procedures for Ammonia and Hydrogen Off-Loading and Handling

The procedures below are currently used for PSEG Fossil's fleet operations. They address off-loading and safe handling of ammonia and hydrogen. Prior to receipt of bulk chemicals at the site, the procedures will be updated to specifically address BHS 5 requirements and specific design elements. Note that the ammonia safety procedure is from PSEG's New York facility and Bridgeport Harbor Station does not currently use bulk ammonia.

BRIDGEPORT HARBOR
SITE DEVELOPMENT PLANS
UNIT 5 COMBINED CYCLE PROJECT

LIST OF PROPERTY OWNERS WITHIN 100 FEET OF 1 ATLANTIC STREET	
PROPERTY	**OWNER/MAILING ADDRESS**
420 MAIN STREET #422	ALEKSANDER VUKAJ
	170 JENNINGS ROAD
	FAIRFIELD, CT 06825
418 MAIN STREET	KIEFER MAIN INCORPORATED
	77 GRANNIS ROAD
	ORANGE, CT 06477
30 KIEFER STREET	O'HARA'S LLC
38 KIEFER STREET	PO BOX 320129
54 KIEFER STREET	FAIRFIELD, CT 06825
376 MAIN STREET	E S M HOLDINGS LLC
	525 SOUTH 4TH AVENUE
	MOUNT VERNON, NY 10550
375 MAIN STREET	HOUSING AUTHORITY OF THE CITY OF BRIDGEPORT
	376 EAST WASHINGTON AVENUE
	BRIDGEPORT, CT 06608
10 ATLANTIC STREET	BRIDGEPORT ENERGY LLC
	10 ATLANTIC STREET
	BRIDGEPORT, CT 06604
280 MAIN STREET	PSEG POWER CONNECTICUT, LLC
	80 PARK PLAZA T-9 N/A
	NEWARK, NJ 07102-4194
37 HENRY STREET #41	60 MAIN STREET LLC ET. AL
51 HENRY STREET	40 DANBURY ROAD
76 MAIN STREET	WILTON, CT 06897
3 ATLANTIC STREET	UNITED ILLUMINATING COMPANY
	P.O. BOX 1402
	NEW HAVEN, CT 06505
21 HENRY STREET	MICHAEL MAUZERALL
27 HENRY STREET	21 HENRY STREET
	BRIDGEPORT, CT 06604
BRIDGEPORT HARBOR	BRIDGEPORT PORT AUTHORITY
	330 WATER STREET
	BRIDGEPORT, CT 06604

ZONE DEVELOPMENT STANDARDS				
	I-H INDUSTRIAL HEAVY ZONE		I-L INDUSTRIAL LIGHT ZONE	
DEVELOPMENT STANDARD	REQUIREMENT	PROVIDED	REQUIREMENT	PROVIDED
LOT REQUIREMENTS				
MMINIMUM LOT AREA	N/A	N/A	N/A	N/A
MINIMUM FRONTAGE	NONE	> 25 Feet	25 FEET	> 25 Feet
MAXIMUM FLOOR/AREA RATIO	N/A	N/A	N/A	N/A
MAXIMUM PRINCIPAL BUILDING SIZE	N/A	N/A	N/A	N/A
PRINCIPAL BUILDING AND ACCESSORY STRUCTURE SETBACKS				
MINIMUM FRONT LOT LINE	N/A	N/A	N/A	N/A
MINIMUM STREET LOT LINE	5 FEET	15 FEET	15 FEET	15 FEET
MINIMUM SIDE LOT LINE	N/A	N/A	N/A	N/A
MINIMUM REAR LOT LINE	N/A	N/A	N/A	N/A
MINIMUM LOT LINE SETBACK ABUTTING OTHER HEAVY INDUSTRIAL USE	10 FEET	> 10 FEET	10 FEET	> 10 FEET
MINIMUM LOT LINE SETBACK ABUTTING OTHER USES	0 FEET	> 0 FEET	0 FEET	> 0 FEET
MINIMUM LOT LINE SETBACK ABUTTING RESIDENTIAL ZONE	15 FEET	> 15 FEET	15 FEET	> 15 FEET
MINIMUM LOT LINE SETBACK ABUTTING MU, OR, OR I-ZONED LOT	0 FEET	> 0 FEET	0 FEET	> 0 FEET
MINIMUM LOT LINE SETBCK FROM MEAN HIGH WATER	N/A	N/A	N/A	N/A
LOT COVERAGE REQUIREMENTS				
MAXIMUM BUIDING COVERAGE	100%	< 100%	85%	< 100%
MAXIMUM SITE COVERAGE	NONE	N/A	85%	N/A
MINIMUM LANDSCAPE AREA	NONE	15%	55%	15%
HEIGHT REQUIREMENTS				
PRINCIPAL STRUCTURE MAXIMUM HEIGHT	75 FEET	FOUR STRUCTURES > 75 FEET	75 FEET	FOUR STRUCTURES > 75 FEET
ACCESSORY STRUCTURE MAXIMUM HEIGHT	25 FEET	> 25 FEET	25 FEET	> 25 FEET



TECHNICAL TABLES/SPECIFICATIONS:

LEGENDS/SYMBOL KEYS:

PROPERTY LINE ALONG MEAN HIGH WATER

COASTAL JURISDICTION LINE

DESIGN NOTES:

REFERENCES:

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
COVER SHEET

COVER/LEGEND SHEET DESIGN-CIVIL GENERAL

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
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REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

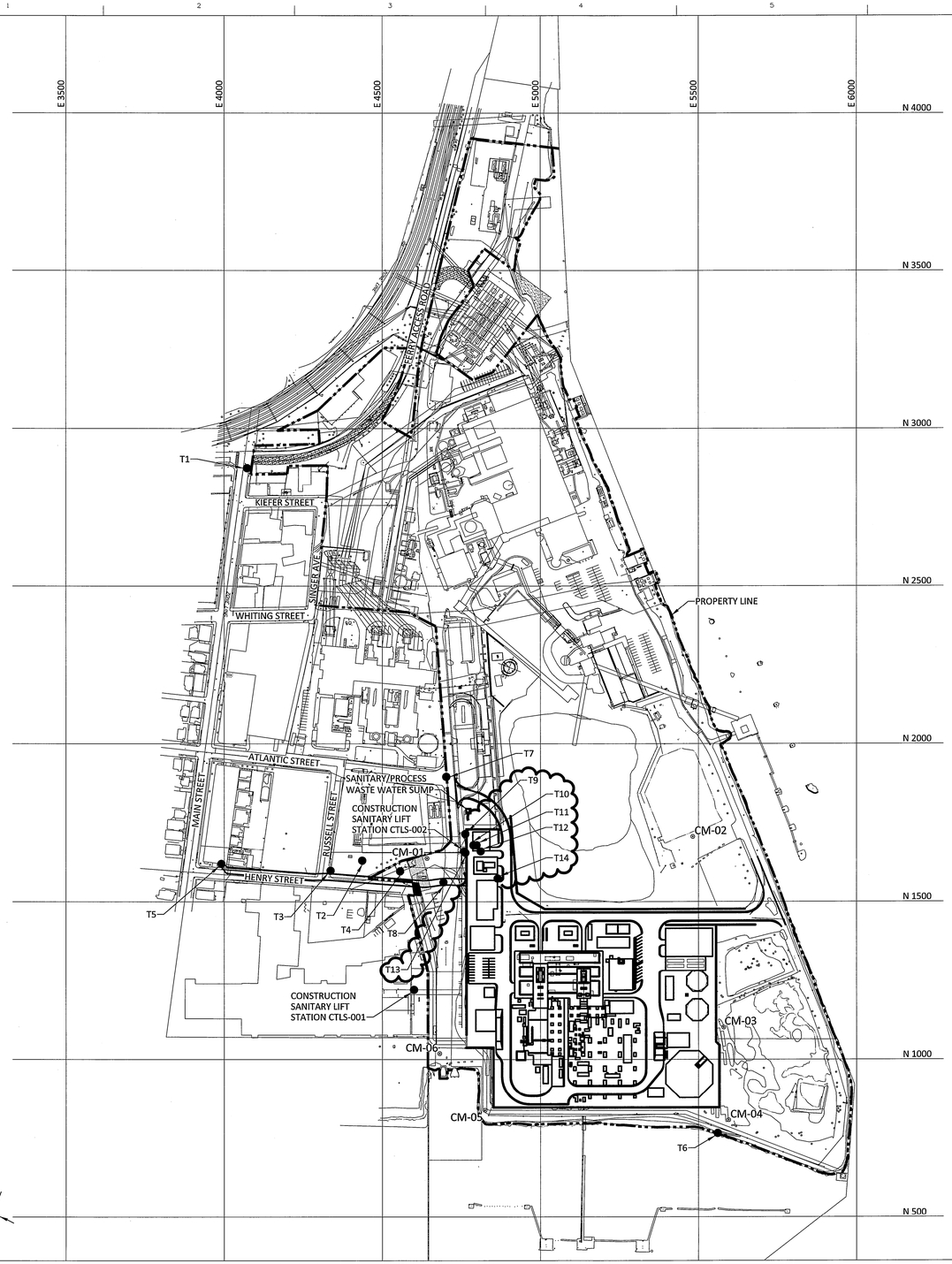
VENDOR NO.
191547-DS-3000A

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT.
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



FACILITIES LEGEND

ID	FACILITY	ARRANGEMENT	TIEDOWN LOCATION NORTH	TIEDOWN LOCATION EAST	REMARKS
–	SANITARY/PROCESS WASTE WATER SUMP	–	–	–	–
–	CONSTRUCTION SANITARY LIFT STATION	–	–	–	–

TERMINAL POINTS (APPLICABLE TO DWGS 5GAU-G1000 & G1001)

ID	NAME	REMARKS
T1	SANITARY/PROCESS WASTE WATER DISCHARGE	
T2	HIGH PRESSURE GAS	
T3	LOW PRESSURE GAS	
T4	SERVICE WATER	
T5	345 KV	
T6	STORMWATER OUTFALL	
T7	ACCESS ROAD	
T8	CONSTRUCTION POWER	
T9	LOW PRESSURE GAS AT SITE BOUNDARY	
T10	LOW PRESSURE GAS FROM METERING TO SITE	
T11	HIGH PRESSURE GAS FROM METERING TO FUEL GAS BLDG	
T12	HIGH PRESSURE GAS TO SCG METERING	
T13	HIGH PRESSURE GAS AT SITE BOUNDARY	
T14	HIGH PRESSURE GAS TO FUEL GAS BLDG	
	PROJECT SURVEY CONTROL	
	CONTROL MONUMENT LOCATIONS SEE DWG 5GAU-G1001	

DESIGN NOTES:

1. NOTES APPLICABLE TO 5GAU-G1000 & G1001.
2. THIS DRAWING IS THE BASIS FOR THE SITE ARRANGEMENT AND IS SUBJECT TO REVISIONS AS A RESULT OF DETAILED DESIGN AND DUE TO VARIATIONS IN SUPPLIERS OF MAJOR EQUIPEMNT.
3. THE PROJECT PLANT GRID SYSTEM IS BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD83 (2011) FEET.TO CONVERT THE PLANT GRID TO STATE PLANE, ROTATE THE SITE CLOCKWISE ABOUT THE CENTERLINE OF THE HRSG STACK 20.73°, THEN ADD 620723.13 TO THE NORTHING AND ADD 876264.04 TO THE EASTING. PLANT GRID SYSTEM AND NOTED CONVERSION IS ONLY APPLICABLE TO THE LIMITS ON THIS DRAWING.
4. TO CONVERT FROM NAVD88 TO THE CITY OF BRIDGEPORT DATUM, ADD 14.6 TO NAVD88 ELEVATIONS TO MEET BRIDGEPORT DATUM.
5. THE PROPERTY BOUNDARY AND COORDINATES ARE BASED ON THE TOPOGRAPHIC SURVEY DRAWINGS VT-1 THRU VT-5, VS-1 REV 1, DATED 11/06/2015 BY DESIGN PROFESSIONALS.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
3	10/26/16	C.01950	PERMIT ISSUE	JDL	BMH	EJS		GLG	MED
2	09/14/16	C.01950	PERMIT ISSUE	RJW	CAF	BMH		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	CAF	BMH		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	JJD	BMH		LWJ	MED

REVISION

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200' 100' 0 200' 400'

1"=200'

Project Location:
Fairfield County, CT

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BRIDGEPORT 05
PLANT LAYOUT
GENERAL YARD
OVERALL SITE PLOT PLAN

ARRANGEMENT — DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	CHRIS FINN	BLIA HER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO. 191547-5GAU-G1000

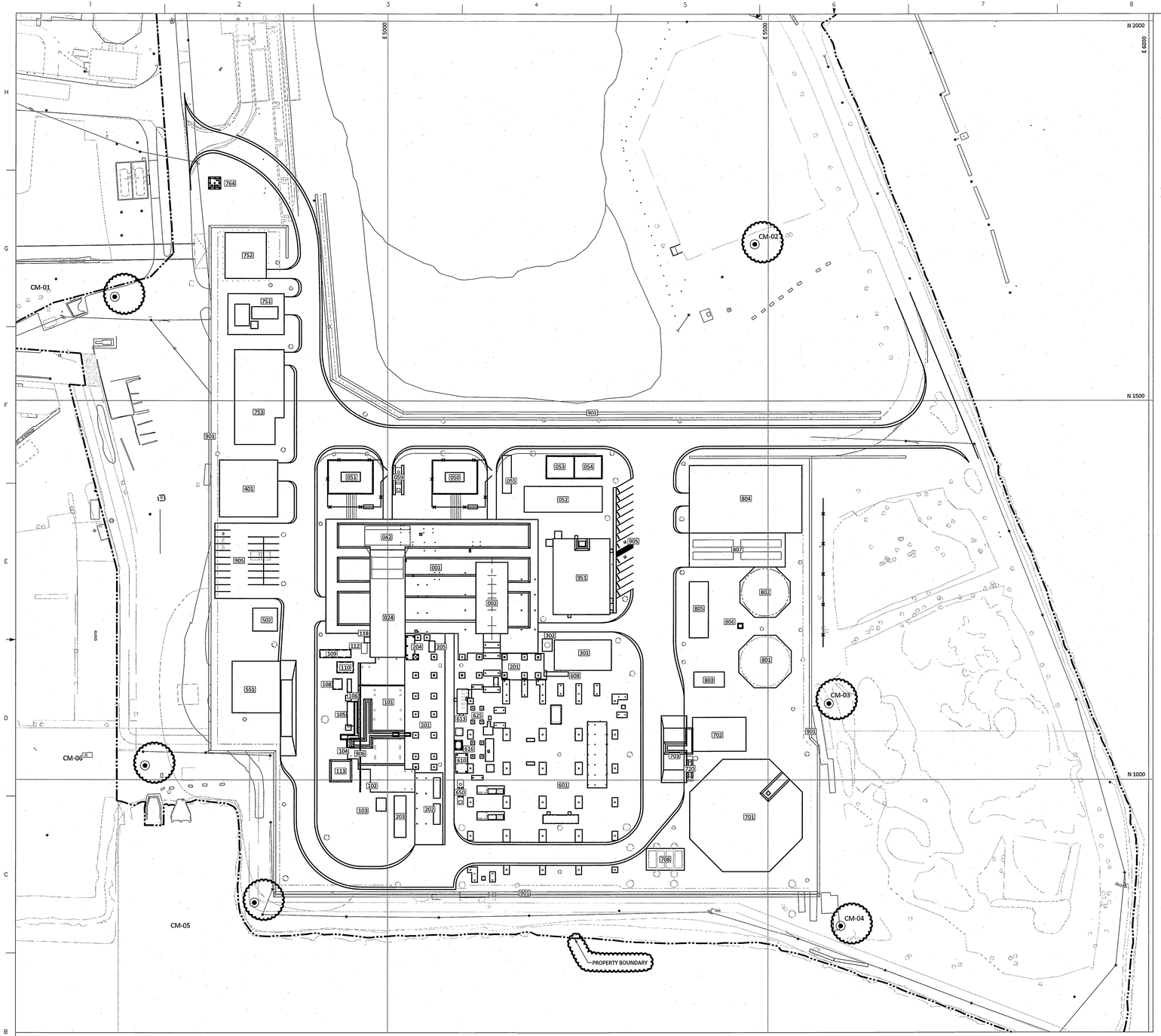
TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

3	ISSUED FOR PERMITTING
2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL. | OTHER | SPONSOR: T. MURPHY | VERSION: 3



FACILITIES LEGEND

ID	FACILITY	ARRANGEMENT	TIEDOWN LOCATION NORTH	TIEDOWN LOCATION EAST	REMARKS
001	TURBINE/GENERATOR ENCLOSURE (PEMB)	–	1343.79	4918.83	COLUMN ROW TBA – TB1
002	STEAM TURBINE GENERATOR	–	–	–	
024	GAS TURBINE GENERATOR	–	–	–	
042	CTG AIR INLET FILTER	–	–	–	
050	STG GSU TRANSFORMER	–	–	–	
051	CTG GSU TRANSFORMER	–	–	–	
052	MV ELECTRICAL PDC ENCLOSURE	–	–	–	
053	UNIT AUX TRANSFORMER 2000	–	–	–	
054	UNIT AUX TRANSFORMER 1000	–	–	–	
055	STANDBY DIESEL GENERATOR	–	–	–	
059	OIL/WATER SEPARATOR (UG)	–	–	–	
101	HEAT RECOVERY STEAM GENERATOR	–	–	–	
102	HEAT RECOVERY STEAM GENERATOR STACK		1000.00	5000.00	CL STACK
103	CEMS EQUIPMENT MODULE		–	–	
104	HRSG BLOWDOWN TANK		–	–	
105	HRSG AMMONIA FLOW CONTROL SKID	–	–	–	
106	HRSG BURNER FUEL SKID	–	–	–	
108	FUEL GAS ABSOLUTE SEPARATOR	–	–	–	
109	FUEL GAS PERFORMANCE HEATER	–	–	–	
110	STARTUP GAS HEATER	–	–	–	
112	WATER WASH/FALSE START DRAINS TANK (UG)	–	–	–	
113	HRSG BLOWDOWN SUMP	–	1012.00	4938.50	CL SUMP
115	HRSG ACOUSTIC SHROUD	–	–	–	
116	–	–	–	–	
117	–	–	–	–	
118	FUEL DRAINS TANK	–	–	–	
201	HRSG UTILITY RACK	–	–	–	
202	BOILER FEEDWATER PUMP ENCLOSURE (PEMB)	–	1009.67	5036.00	COLUMN ROW BA–B1
203	HRSG ELECTRICAL PDC ENCLOSURE	–	–	–	
204	CT LUBE OIL RESERVOIR	–	–	–	
205	CT LIQUID FUEL FILTER SKID	–	–	–	
301	AUX BOILER ENCLOSURE (PEMB)	–	1185.00	5219.25	COLUMN ROW XA–X1
302	AUX BOILER STACK	–	1178.28	5209.95	CL STACK
501	WAREHOUSE/MAINTENANCE BUILDING (PEMB)	–	1428.50	4779.00	COLUMN ROW WA–W1
502	BULK HYDROGEN SYSTEM	–	–	–	
551	AQUEOUS AMMONIA STORAGE & UNLOADING AREA	–	–	–	
601	AIR COOLED CONDENSER (ACC)	–	–	–	
608	CT GLYCOL PUMP & HEATER SKID	–	–	–	
610	WASTE WATER COLLECTION SUMP	–	1022.15	5097.32	CL SUMP
613	RESIN RECOVERY TANK	–	–	–	
616	SPENT SLURRY SUMP	–	1046.00	5093.10	CL SUMP
625	CONDENSATE UTILITY RACK	–	–	–	
650	OIL/WATER SEPARATOR (UG)	–	–	–	
701	ULSD TANK (ULTRA LOW SULFUR DIESEL)	–	–	–	
702	FUEL OIL FORWARDING PUMP ENCLOSURE (PEMB)	–	1037.83	5386.83	CL COLUMN ROW FA–F1
703	FUEL OIL TRUCK UNLOADING AREA	–	–	–	
708	MANUFACTURED TREATMENT DEVICE	–	–	–	
720	OIL/WATER SEPARATOR (UG)	–	–	–	
751	FUEL GAS PROCESSING ENCLOSURE (PEMB)	–	–	–	
752	FUEL GAS METERING STATION	–	–	–	
753	GIS ENCLOSURE	–	–	–	
764	SANITARY/PROCESS WASTEWATER SUMP	–	–	–	CL SUMP
801	SERVICE/FIRE WATER STORAGE TANK	–	–	–	
802	DEMIN WATER TANK	–	–	–	
803	FIRE PUMP ENCLOSURE	–	–	–	
804	GENERAL SERVICES ENCLOSURE (PEMB)	–	1325.83	5396.50	CL COLUMN ROW GA–G1
805	AUX COOLING TOWER	–	–	–	
806	GENERAL SERVICES ENCLOSURE SUMP	–	1203.25	5463.62	CL SUMP
807	DEMIN WATER TRAILERS/CYCLE MAKEUP TREATMENT	–	–	–	
901	RETAINING WALL	–	–	–	
905	PARKING/SIDEWALK	–	–	–	
951	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB)	–	1318.54	5217.50	COLUMN ROW CA–C1

DESIGN NOTES:

1. NOTES APPLICABLE TO SGAU-G1000 & G1001.
2. THIS DRAWING IS THE BASIS FOR THE SITE ARRANGEMENT AND IS SUBJECT TO REVISIONS AS A RESULT OF DETAILED DESIGN AND DUE TO VARIATIONS IN SUPPLIERS OF MAJOR EQUIPEMNT.
3. THE PROJECT PLANT GRID SYSTEM IS BASED ON THE CONNECTICUT STATE PLANE GRID COORDINATE SYSTEM NAD83 (2011) FEET. TO CONVERT THE PLANT GRID TO STATE PLANE, ROTATE THE SITE CLOCKWISE ABOUT THE CENTERLINE OF THE HRSG STACK 20.73°, THEN ADD 620723.13 TO THE NORTHING AND ADD 876264.04 TO THE EASTING. PLANT GRID SYSTEM AND NOTED CONVERSION IS ONLY APPLICABLE TO THE LIMITS ON THIS DRAWING.
4. TO CONVERT FROM NAVD88 TO THE CITY OF BRIDGEPORT DATUM, ADD 14.6 TO NAVD88 ELEVATIONS TO MEET BRIDGEPORT DATUM.
5. FOR CONTROL MONUMENTS, SURVEYOR SHALL WORK WITH FIELD ENGINEER. SURVEYOR MAY ADJUST LOCATION OF CONTROL MONUMENTS TO ENSURE LINE OF SIGHT TO TWO OTHER MONUMENTS FROM ANY ONE MONUMENT.

PROJECT SURVEY CONTROL

CONTROL MONUMENT LOCATIONS

MONUMENT NO.	PLANT COORDINATES NORTHING	PLANT COORDINATES EASTING	MONUMENT NO.	STATE PLANE COORDINATES NORTHING	STATE PLANE COORDINATES EASTING	ELEVATION	REMARKS
CM-01	1637.00	4641.25	CM-01	622191.91	880703.04	LTR	CONCRETE MONUMENT WITH BRASS DISC
CM-02	1706.50	5482.25	CM-02	622554.59	881464.99	LTR	CONCRETE MONUMENT WITH BRASS DISC
CM-03	1101.00	5580.00	CM-03	622022.89	881770.74	LTR	CONCRETE MONUMENT WITH BRASS DISC
CM-04	808.00	5595.50	CM-04	621754.35	881888.95	LTR	CONCRETE MONUMENT WITH BRASS DISC
CM-05	838.75	4825.00	CM-05	621510.38	881157.45	LTR	CONCRETE MONUMENT WITH BRASS DISC
CM-06	1018.75	4681.25	CM-06	621627.84	880959.29	LTR	CONCRETE MONUMENT WITH BRASS DISC

NOTE: NEW BENCHMARKS ARE 5'-0" x 12"Ø CONCRETE MONUMENTS WITH BRASS DISC IN TOP. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT PLANE COORDINATE SYSTEM NAD83 (2011) FEET. THE ELEVATIONS ARE BASED ON THE NAVD88 DATUM.

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
1	10/26/16	C.01950	PERMIT ISSUE	KAM	KAM	BMH		GLG	MED
Ø	08/25/16	C.01950	PERMIT ISSUE	RJL	TEB	LWJ		LWJ	MED

1 ISSUED FOR PERMITTING
Ø ISSUED FOR PERMITTING

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED PROFESSIONAL ENGINEER

GENERAL REVISIONS

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

50' 25' 0 50' 100'
1"=50'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DWG SCALE:
SEAL:

REVISION

BRIDGEPORT 05
PLANT LAYOUT
GENERAL YARD
OVERALL SITE ARRANGEMENT

ARRANGEMENT DESIGN – CIVIL GENER

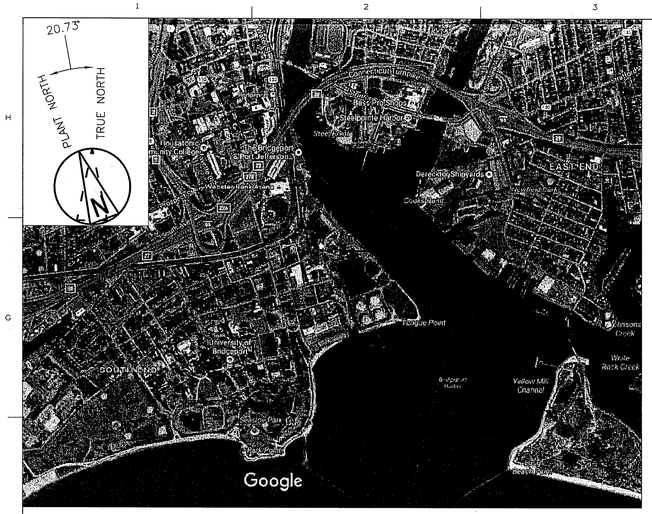
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

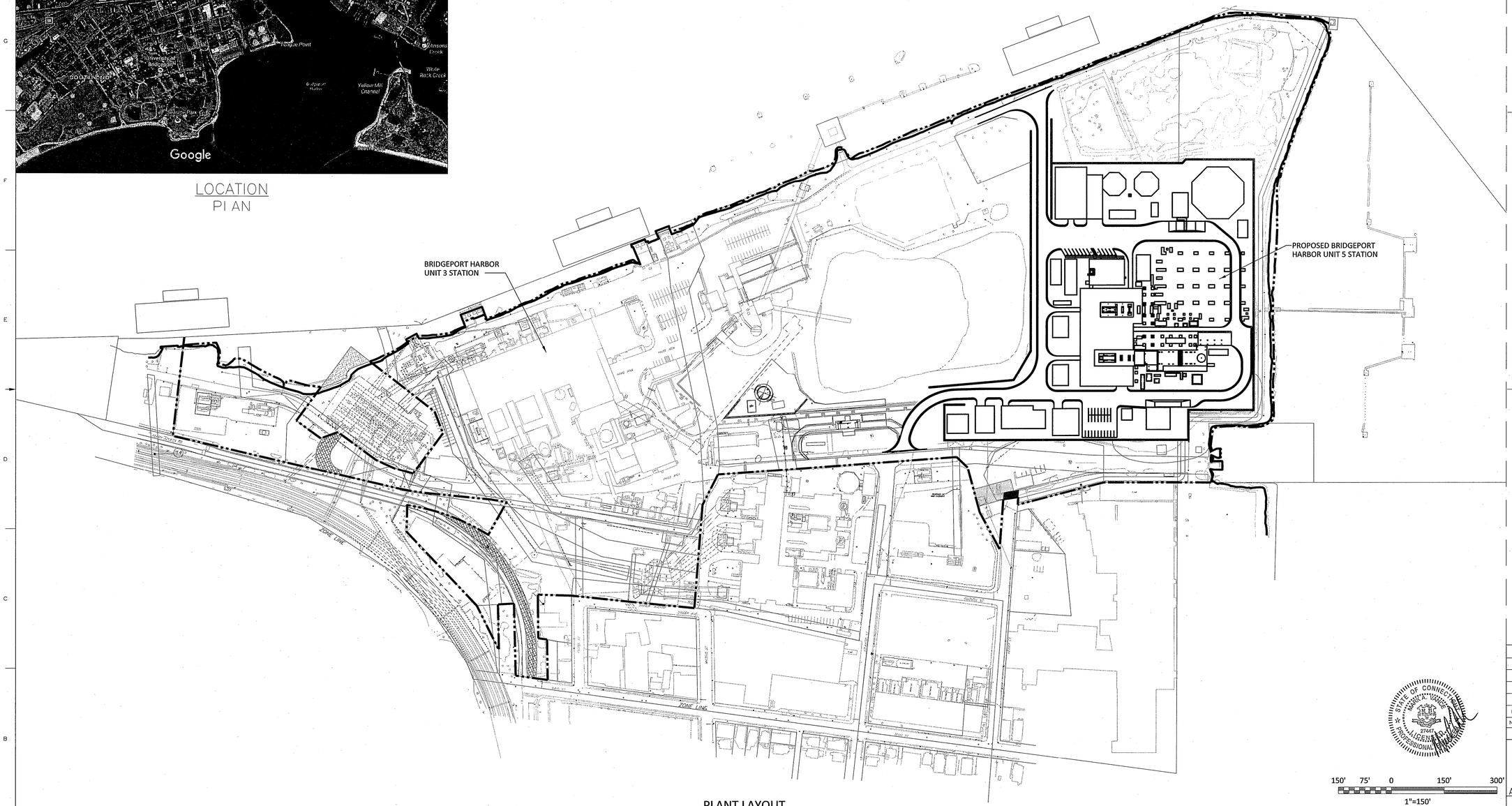
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
KEITH MESSERSCHMI	KEITH MESSERSCHMI	
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5GAU-G1001

ANSI E SIZE CONT. MECH. SPON.
SPONSOR: T. MURPHY VERSION: 1



LOCATION
PI AN



PLANT LAYOUT
SCALE 1" = 150'

150' 75' 0 150' 300'
1"=150'

LEGENDS/SYMBOL KEYS:

PROPERTY LINE
COASTAL JURISDICTION LINE

DESIGN NOTES:

1. ALL ELEVATIONS SHOWN ON DRAWINGS ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO THE CITY OF BRIDGEPORT DATUM, ADD 14.6 TO NAVD88 ELEVATIONS TO MEET BRIDGEPORT DATUM.
2. THE PROPERTY BOUNDARY AND COORDINATES ARE BASED ON THE TOPOGRAPHIC SURVEY DRAWINGS VT-1 THRU VT-5, VS-1, REV-1, DATED 11/06/2015 BY DESIGN PRO.
3. THE 100 YEAR FLOOD ELEVATION OF 14 FT NAVD88 IS BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) REFERENCE NO. 09001C0441G, REVISED JULY 8, 2013. THE 500-YEAR FLOOD ELEVATION IS NOT SHOWN ON THE FIRM BUT IS ESTIMATED TO BE 15.3 FT NAVD88. THE FLOOD INSURANCE RATE STUDY FOR FAIRFIELD COUNTY (STUDY NO. 09001CV001C, REVISED OCTOBER, 16 2013) IS 1.3 FT HIGHER THAN THE 100-YEAR STILLWATER FT NAVD88 IS ABOVE THE 500-YEAR FLOOD ELEVATION OF 15.3 FT.

REFERENCES:

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	JJD		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
PROPOSED PLANT LAYOUT

ARRANGEMENT DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	JERRY DYCK
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1042

TECHNICAL TABLES/SPECIFICATIONS:

20.73° TRUE NORTH
PLANT NORTH
N

REVISION NOTES:

Ø ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0

ABBREVIATIONS APPLICABLE TO ALL S3000 DRAWINGS

A	-	ARC LENGTH	LS	-	LIFT STATION
AGG	-	AGGREGATE	LTR	-	LATER
APPROX	-	APPROXIMATE	MATL	-	MATERIAL
ASPH	-	ASPHALT	MH	-	MANHOLE
AVG	-	AVERAGE	MSL	-	MEAN SEA LEVEL
BLDG	-	BUILDING	MW	-	MONITORING WELL
B/MH	-	BOTTOM OF MANHOLE ELEVATION	N	-	NORTH
BOD	-	BOTTOM OF ELECTRICAL DUCT BANK	NO.	-	NUMBER
BOP	-	BOTTOM OF PIPE	NTS	-	NOT TO SCALE
BU	-	BELL-UP	OD	-	OUTSIDE DIAMETER
CHDPE	-	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	OWS	-	OIL/WATER SEPARATOR
CJ	-	CONTRACTION JOINT	PC	-	POINT OF CURVATURE
CL	-	CENTERLINE	PE	-	PLAIN END
CMP	-	CORRUGATED METAL PIPE	PI	-	POINT OF INTERSECTION
CO	-	CLEAN OUT	PL	-	PROPERTY LINE
D	-	DEGREE OF CURVE	PLCS	-	PLACES
Δ	-	DELTA ANGLE OF HORIZONTAL CURVE	PRC	-	POINT OF REVERSE CURVE
DI	-	DUCTILE IRON	PT	-	POINT OF TANGENT
DIA	-	DIAMETER	PVC	-	POINT OF VERTICAL CURVE
DIM	-	DIMENSION	PVI	-	POINT OF VERTICAL INTERSECTION
DWG	-	DRAWING	PVT	-	POINT OF VERTICAL TANGENT
E	-	EAST	R	-	RADIUS
EA	-	EACH	RCP	-	REINFORCED CONCRETE PIPE
EF	-	EACH FACE	RD	-	ROOF DRAIN
EGP	-	EDGE OF PAVEMENT	RED	-	REDUCER
EGS	-	EDGE OF SHOULDER	REQD	-	REQUIRED
EHH	-	ELECTRICAL HANDHOLE	REV	-	REVISION
EL	-	ELEVATION	R/W	-	RIGHT-OF-WAY
EJ	-	EXPANSION JOINT	S	-	SOUTH
EW	-	EACH WAY	SE	-	SUPERELEVATION
EXP	-	EXPANSION	SIM	-	SIMILAR
FD	-	FLOOR DRAIN	STA	-	STATION
FDN	-	FOUNDATION	T	-	TANGENT LENGTH
FF	-	FINISHED FLOOR	TMH	-	TOP OF MANHOLE
FG	-	FINISHED GRADE	TOC	-	TOP OF CONCRETE
FRP	-	FIBER REINFORCED PIPE	TOG	-	TOP OF GRATING
FT	-	FOOT	TOP	-	TOP OF PAVEMENT
HC	-	HANDICAPPED	TYP	-	TYPICAL
HDPE	-	HIGH DENSITY POLYETHYLENE	UNO	-	UNLESS NOTED OTHERWISE
HVCM	-	HORIZ & VERT CONTROL MONUMENT	DS	-	DESIGN SPEED
HP	-	HIGH POINT	VERT	-	VERTICAL
ID	-	INSIDE DIAMETER	W	-	WEST
IN	-	INCH	W/	-	WITH
INV	-	INVERT	W/O	-	WITHOUT
L	-	LENGTH	WP	-	WORK POINT
LC	-	LENGTH OF VERTICAL CURVE			
LOD	-	LIMITS OF DISTURBANCE			

LEGENDS/SYMBOL KEYS:

- PROPERTY LINE ALONG MEAN HIGH WATER
- NEW SECURITY FENCE
- SWITCHYARD FENCE
- 8 — NEW CONTOUR
- MATCH LINE
- CB-XX — STORMWATER CATCH BASIN
- MH-XX — STORMWATER MANHOLE
- NEW STORM WATER SYSTEM
- NEW CULVERT
- GRADE SURFACE FLOW INDICATOR
- DITCH/SWALE FLOW INDICATOR
- 16.00 × — NEW SPOT ELEVATION
- SURVEY CONTROL MONUMENT
- EXISTING FENCE
- 8 — EXISTING CONTOUR
- LIMITS OF DISTURBANCE
- COASTAL JURISDICTION LINE
- ASPHALT SURFACING
- AGGREGATE SURFACING
- REINFORCED CONCRETE OR OTHER IMPERVIOUS STRUCTURE
- EARTH
- RIPRAP
- SAND/BEDDING MAT'L
- GRASS
- WETLANDS SEE NOTE 20
- 1 / S3000 — SECTION OR DETAIL NUMBER / DRAWING DESIGNATION NUMBER

DESIGN NOTES:

1. GENERAL NOTES APPLICABLE TO ALL S3000 SERIES DRAWINGS.
2. SEE DRAWING 5GAU-G1000 FOR SITE PLOT PLAN.
3. SEE DRAWING 5GAU-G1001 FOR OVERALL SITE ARRANGEMENT.
4. SEE 5STE-S3100 SERIES DRAWINGS FOR EROSION CONTROL PLANS AND DETAILS.
5. SEE 5STD-S3200 SERIES DRAWINGS FOR SURFACING AND FENCING PLANS AND DETAILS.
6. SEE 5STA-S3400 SERIES DRAWINGS FOR PLANT ROADS AND PARKING PLANS AND DETAILS.
7. SEE 5STF-S3900 SERIES DRAWINGS FOR GRADING AND DRAINAGE DETAILS.
8. THE PROJECT PLANT GRID SYSTEM IS BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD83/2011 FEET. TO CONVERT THE PLANT GRID TO STATE PLANE, ROTATE THE SITE CLOCKWISE ABOUT THE CENTERLINE OF THE HRSG STACK 20.73°, THEN ADD 620723.13 TO THE NORTHING AND ADD 876264.04 TO THE EASTING. PLANT GRID SYSTEM AND NOTED CONVERSION IS ONLY APPLICABLE TO THE LIMITS ON THIS DRAWING.
9. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.
10. GRADE SHALL SLOPE UNIFORMLY BETWEEN FINISH SPOT ELEVATIONS AND CONTOURS SHOWN ON THE PLANS.
11. A SMOOTH VERTICAL TRANSITION SHALL BE PROVIDED AT ROAD INTERSECTIONS.
12. SLOPES SHALL BE 3(H):1(V) OR FLATTER, UNLESS NOTED OTHERWISE.
13. THE CONTRACTOR IS RESPONSIBLE FOR TYING FINISHED CONTOURS INTO EXISTING CONTOURS IN AREAS WHERE THERE IS INSUFFICIENT SURVEY DATA OF THE EXISTING GRADE.
14. DISTURBED AREAS NOT RECEIVING AGGREGATE, ASPHALT, OR CONCRETE SURFACING SHALL BE SEEDED/SODDED PER SURFACING PLANS, SEE S3200 SERIES DRAWINGS.
15. SPOT ELEVATIONS AND CONTOURS ON 5STF-S3000 SERIES DRAWINGS ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
16. EXISTING CONTOURS AND SPOT ELEVATIONS ARE BASED ON THE TOPOGRAPHIC SURVEY DRAWINGS VT-1 THRU VT-5 REV1, DATED 11/6/2015 BY DESIGN PROFESSIONALS.
17. ALL AREAS OUTSIDE OF POWER BLOCK DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITIONS, AND STABILIZED UNLESS NOTED OTHERWISE.
18. SLOPE GRADE TO DRAIN IN DIRECTION OF FLOW ARROWS.
19. THE FINISHED GRADE SHALL BE SET 6 INCHES BELOW TOP OF CONCRETE UNLESS NOTED OTHERWISE. FINISHED GRADE SHALL SLOPE AWAY FROM THE STRUCTURE AT A MINIMUM SLOPE OF 1%.
20. FOR THE WETLANDS, THE REGULATORY BOUNDARIES OF WATERS OF THE U.S. DEPICTED ON THIS PLAN HAVE BEEN CONFIRMED BY THE U.S. ARMY CORPS OF ENGINEERS THROUGH THE JURISDICATION DETERMINATION, FILE NO. NAE-2016-00940, ISSUED AUGUST 1, 2016.
21. THE 100-YEAR FLOOD ELEVATION OF 14 FEET NAVD88 IS BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) REFERENCE NO. 09001C0441G, REVISED JULY 8, 2013. THE 500-YEAR FLOOD ELEVATION IS NOT SHOWN ON THE FIRM BUT IS ESTIMATED TO BE 15.3 FEET NAVD88. THE FLOOD INSURANCE RATE STUDY FOR FAIRFIELD COUNTY (STUDY NUMBER 09001CV001C, REVISED OCTOBER 16, 2013) INDICATES THAT THE 500-YEAR STILLWATER ELEVATION IS 1.3 FEET HIGHER THAN THE 100-YEAR STILLWATER ELEVATION. THEREFORE, THE MINIMUM GRADE EL = 16.5 FT NAVD88 IS ABOVE THE 500-YEAR FLOOD ELEVATION OF 15.3 FEET.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

150' 75' 0 150' 300'
1"=150'

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
KEY PLAN, GENERAL NOTES & LEGEND

ARRANGEMENT DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5STF-S3000

SPONSOR: T. MURPHY VERSION: 2

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

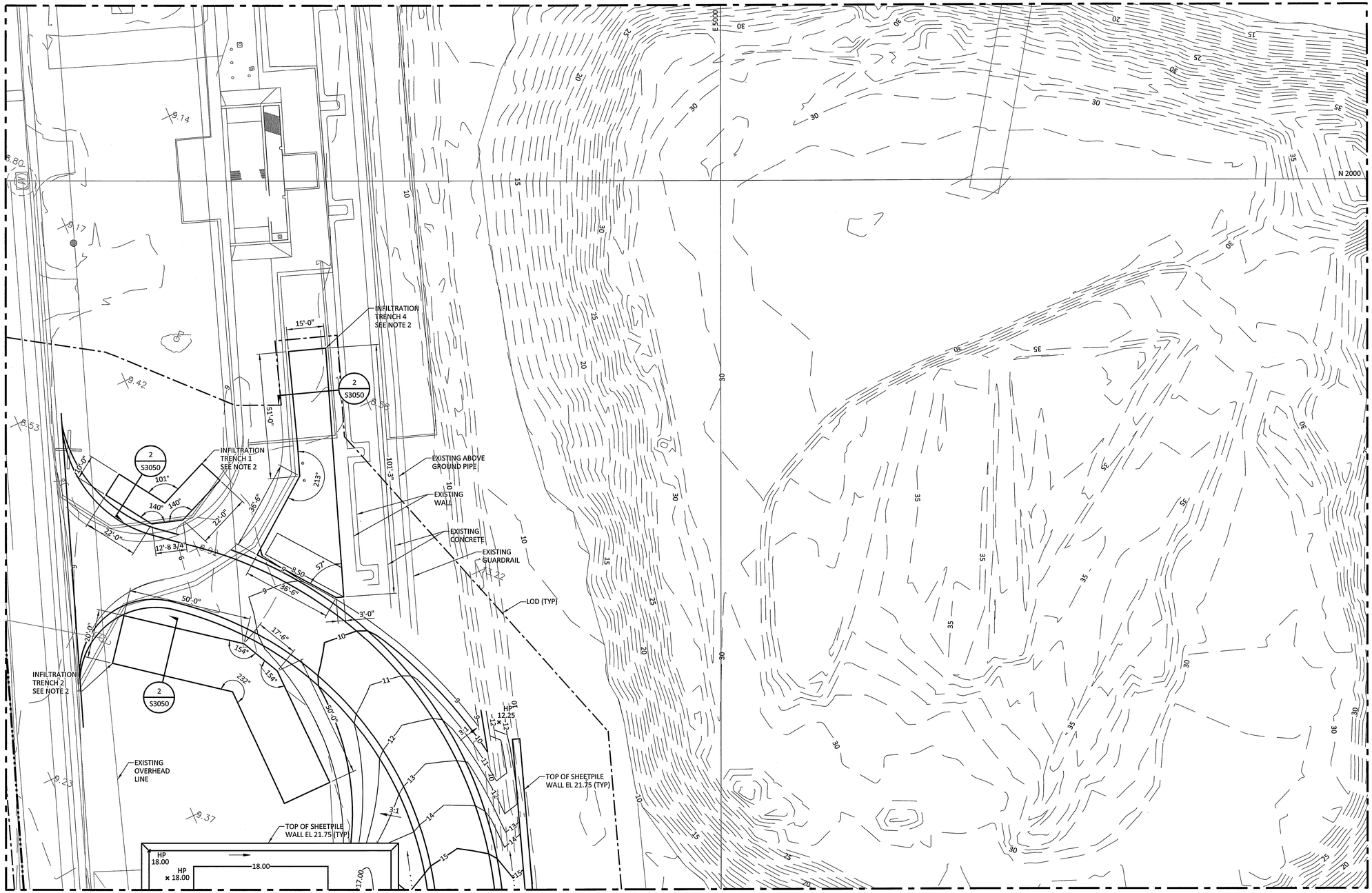
1. 191547 58.5406.1101.01 STORM WATER SYSTEM DESIGN CALCULATION
2. 191547 58.5406.1101.04 SITE INFILTRATION TRENCH DEPTH & SURFACE AREA CALCULATION
3. 191547 58.5406.1101.05 RIP RAP FOR WAVE ACTION
4. 191547 58.5406.1101.06 STORM WATER POLLUTION CONTROL PLAN
5. 191547 58.5406.1101.07 POST-DEVELOPMENT RUNOFF RATE CALCULATION
6. 191547 58.5406.1101.08 PRE-DEVELOPMENT RUNOFF RATE CALCULATION
7. 191547 58.5406.1101.09 STORM WATER OUTFALL RIP RAP APRON SIZING CALC.
8. 191547 58.5406.1101.10 SITE WATER QUALITY FLOW CALCULATION
9. 191547 58.5406.1101.11 SITE WATER QUALITY VOLUME CALCULATION
10. 191547 58.5406.1101.13 DITCH DEPTH CHECK CALCULATION
11. 191547 58.5406.1101.14 SITE STORM WATER REINFORCED CONCRETE PIPE COVER

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

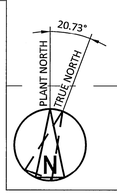


PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'



TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. INFILTRATION TRENCH SHALL BE INSTALLED AFTER FINAL STABILIZATION.
3. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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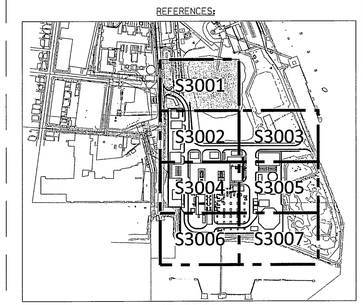
REFERENCES:



KEYPLAN

SCALE: 1"=500'

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN-AREA 1

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5STF-S3001

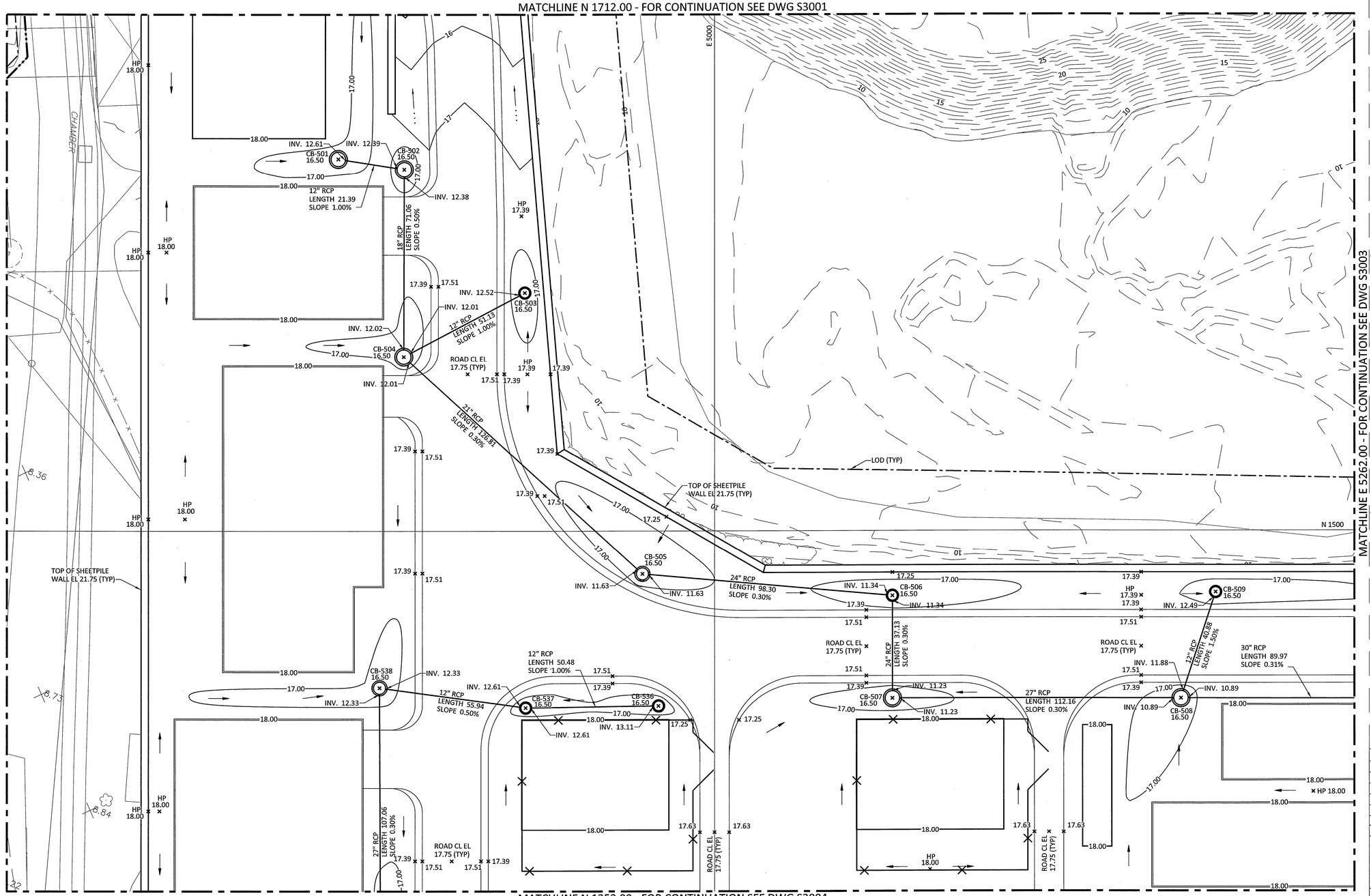
ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE N 1712.00 - FOR CONTINUATION SEE DWG S3001



MATCHLINE N 1352.00 - FOR CONTINUATION SEE DWG S3004

MATCHLINE E 5262.00 - FOR CONTINUATION SEE DWG S3003

PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'

PLANT NORTH 20.73° TRUE NORTH

N

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

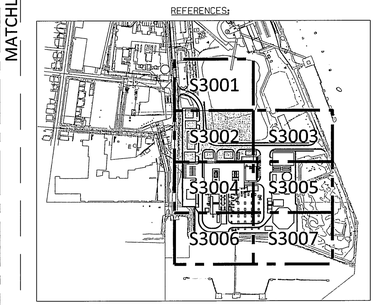
1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

REFERENCES:



KEYPLAN

SCALE: 1"=500'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.21950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

Ø ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.®

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

BRIDGEPORT HARBOR UNIT 5

YARD

GRADING & DRAINAGE

PLAN - AREA 2

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V) TIM ROBINSON	CHECKED (B&V) BLIA HER	EXAMINED (B&V) EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V) WEY-JEN LEE	APPROVED (B&V) MICHAEL DRAKE

VENDOR NO.

191547-5STF-S3002

ANSI D SIZE CONT. ELEC. MECH. CIVIL SPON. OTHER SPONSOR: T. MURPHY VERSION: 0

MATCHLINE E 5262.00 - FOR CONTINUATION SEE DWG S3002

INFILTRATION TRENCH 3 SEE NOTE 2

2 S3050

CONTRACTOR SHALL INSTALL CONCRETE BARRIER

CONTRACTOR SHALL INSTALL INFILTRATION TRENCH IN 10 FT INCREMENTS ALONG THE SHEETPILE WALL

LOD (TYP)

TOP OF SHEETPILE WALL EL 21.75 (TYP)

TOP OF SHEETPILE WALL EL 12.64

TOP OF SHEETPILE WALL EL 21.75

TOP OF SHEETPILE WALL EL 10.0

192'-3 3/4"

N 1500

50'-0"

166'-0"

20'-0"

42'-0"

202°

HP 17.39

CB-513 16.50

INV. 13.26

ROAD CL EL 17.75 (TYP)

12" RCP LENGTH 51.89 SLOPE 1.50%

ROAD CL EL 17.39 (TYP)

INV. 10.61

CB-510 16.50

INV. 10.60

30" RCP LENGTH 91.41 SLOPE 0.30%

ROAD CL EL 17.75 (TYP)

INV. 12.48

CB-514 16.50

INV. 12.48

15" RCP LENGTH 68.55 SLOPE 1.00%

HP 18.00

MATCHLINE N 1352.00 - FOR CONTINUATION SEE DWG S3005

PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'

PLANT NORTH 20.73° TRUE NORTH

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

0	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

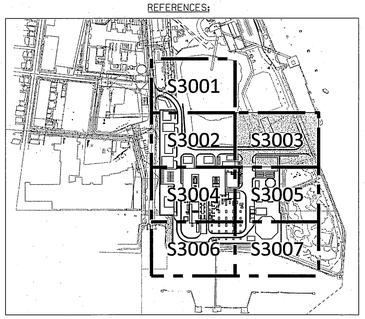
1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. INFILTRATION TRENCH SHALL BE INSTALLED AFTER FINAL STABILIZATION.
3. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

REFERENCES:



KEYPLAN

SCALE: 1"=500'

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - AREA 3

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5STF-S3003

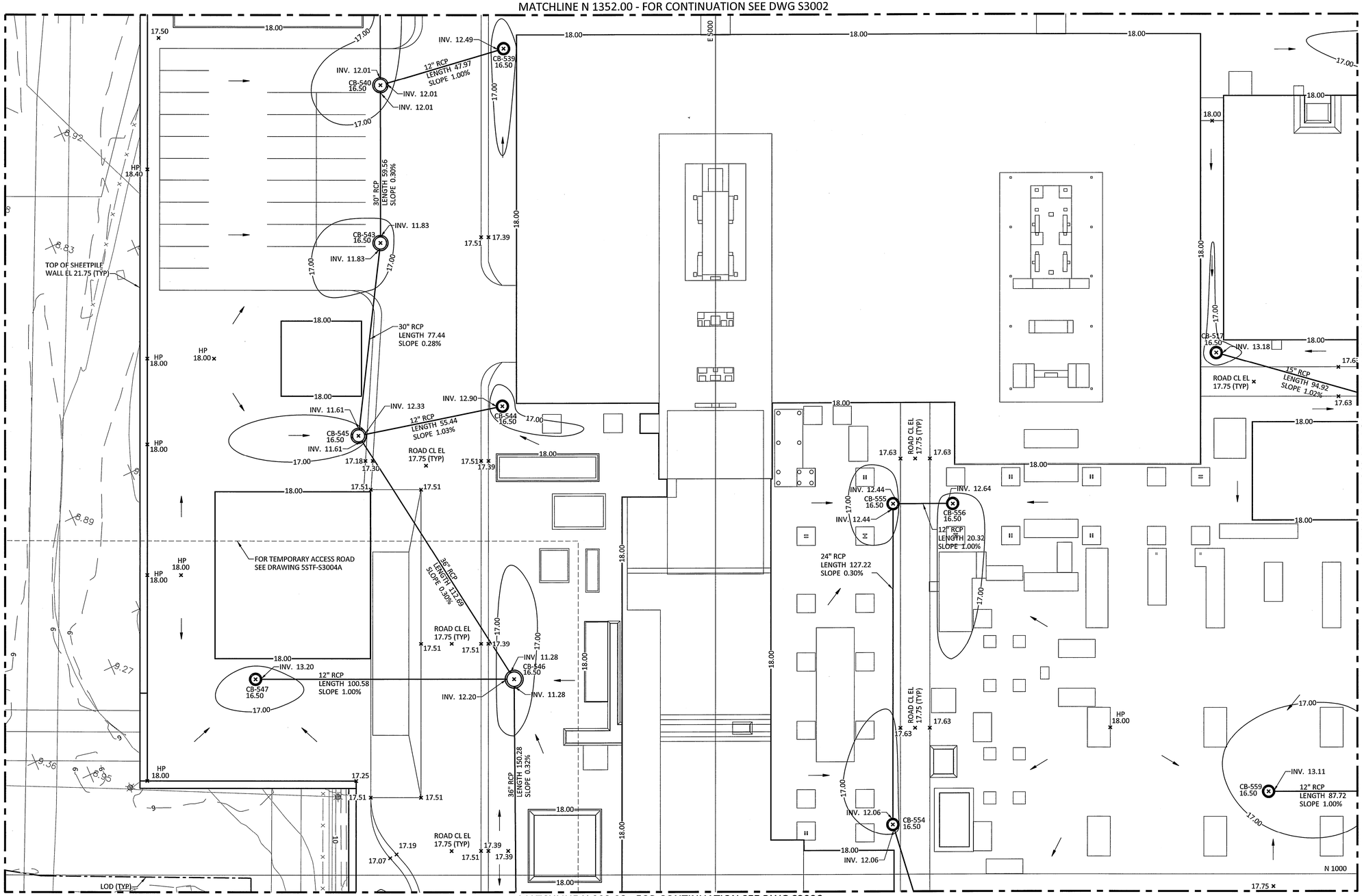
ANSI D SIZE

CONT. MECH. SPON. ELEC. CIVIL. OTHER

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE N 1352.00 - FOR CONTINUATION SEE DWG S3002



MATCHLINE N 993.00 - FOR CONTINUATION SEE DWG S3006

MATCHLINE E 5262.00 - FOR CONTINUATION SEE DWG S3005

PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'

PLANT NORTH
TRUE NORTH
20.73°

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT
MARK A. VANCE
21447
LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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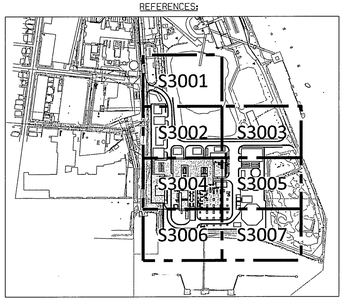
REFERENCES:



KEYPLAN

SCALE: 1"=500'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	OWN	CKD	EXD	REV	REV	APD
Ø	ISSUED FOR PERMITTING								
A	ISSUED FOR IN-HOUSE REVIEW/CLIENT REVIEW								

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	OWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - AREA 4

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

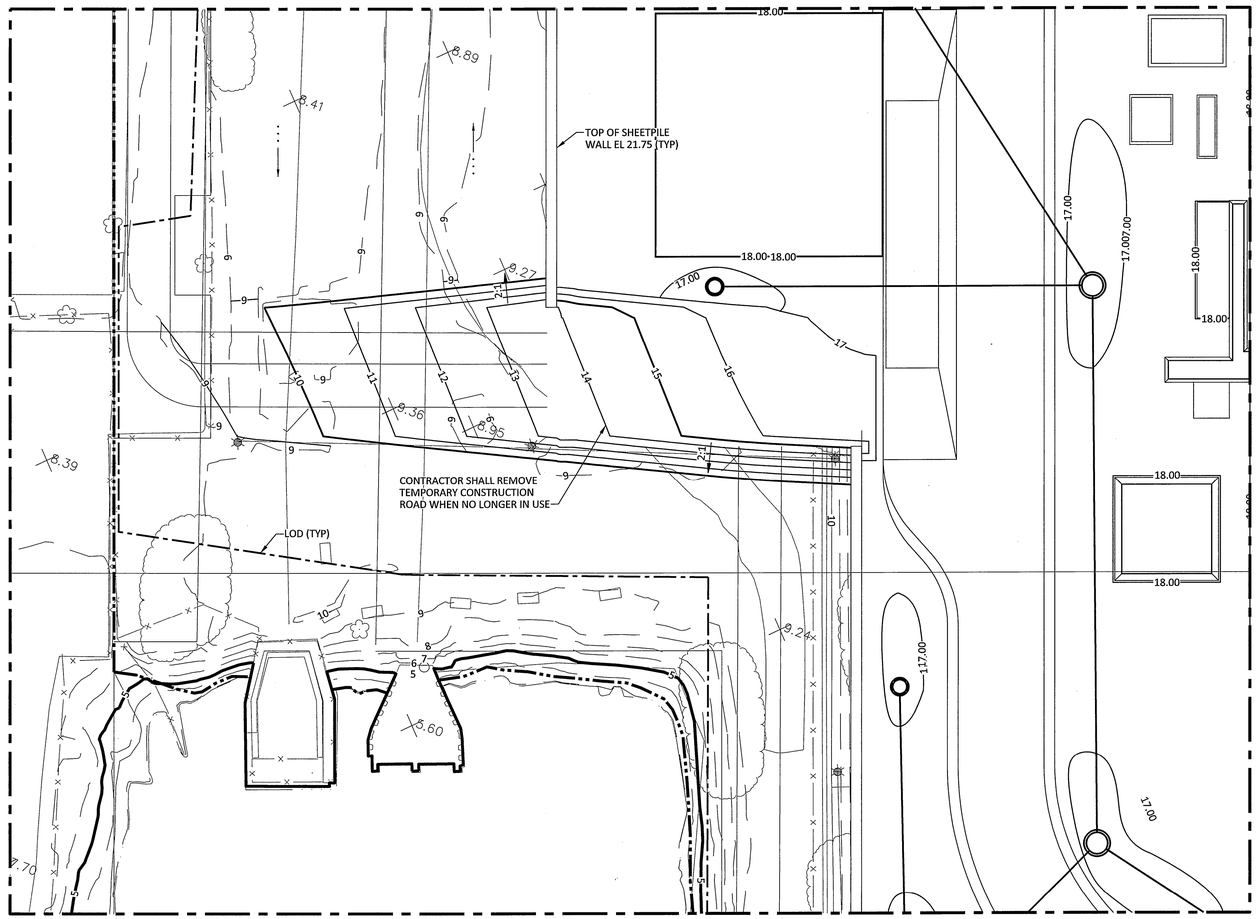
VENDOR NO.
191547-5STF-S3004

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



TEMPORARY ACCESS ROAD

SCALE: 1" = 20'-0"
SEE DWG STF-S3004

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT MARK A. VANCE STATE LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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REFERENCES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	PLS		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - TEMPORARY WEST RAMP

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	PAIGE SNOW
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5STF-S3004A

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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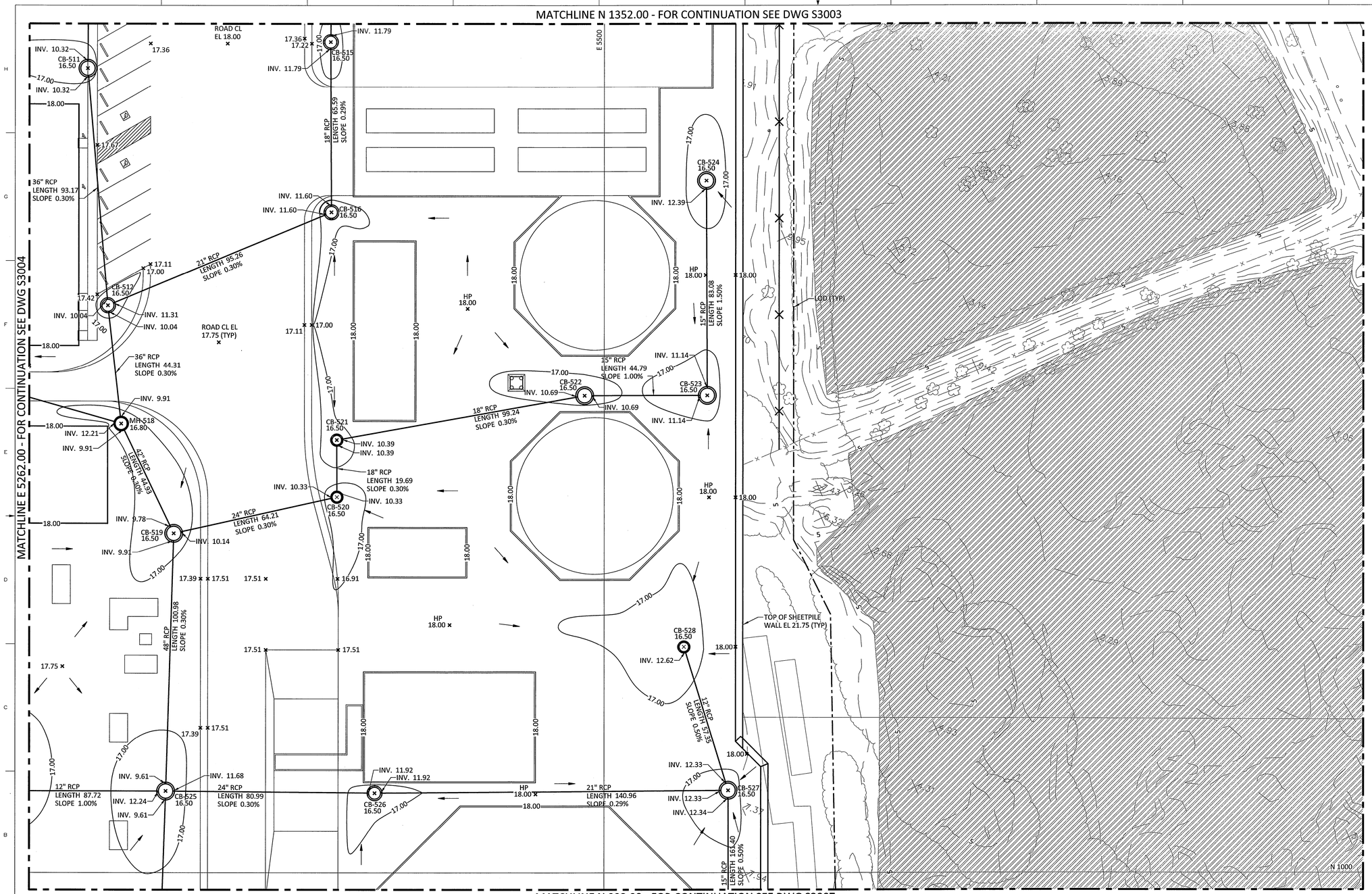
SIGNED: MARK A. VANCE
DATE 08/25/16 REG NO. 27447

20' 10' 0 20' 40'
1"=20'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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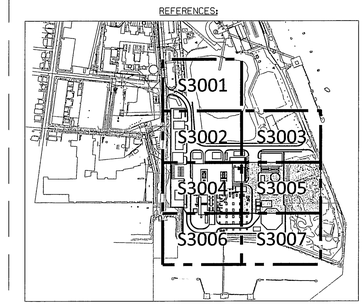
REFERENCES:



KEYPLAN

SCALE: 1"=500'

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.01958	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - AREA 5

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

0	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

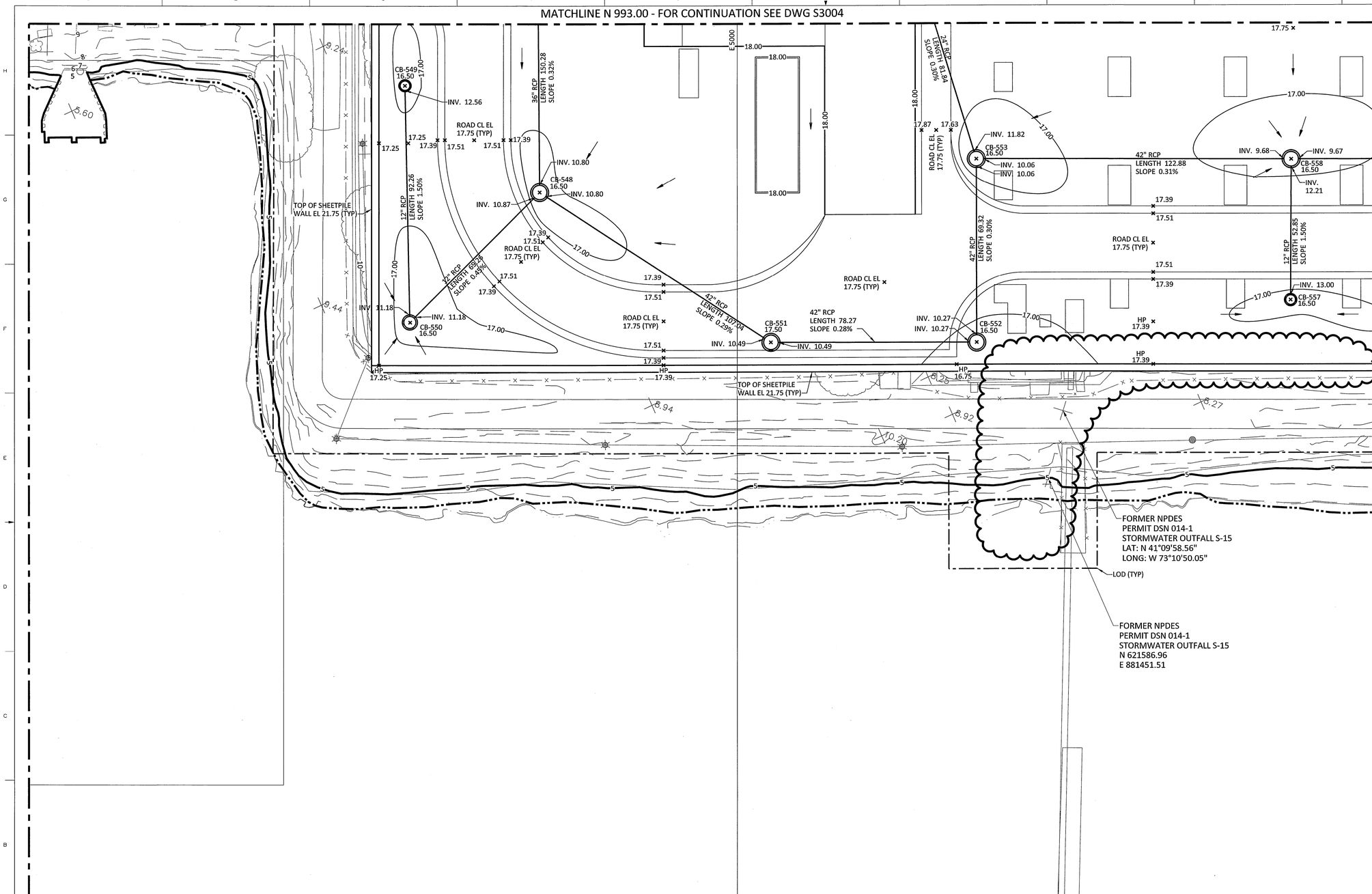
Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO. 191547-5STF-S3005

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



PLAN
SCALE: 1" = 20'-0"

20' 10' 0 20' 40'
1"=20'

PLANT NORTH 20.73° TRUE NORTH N

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT MARK A. VANCE 27447 REGISTERED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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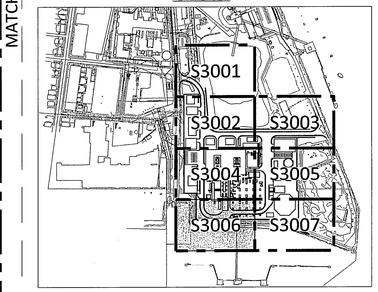
REFERENCES:



KEYPLAN
SCALE: 1"=500'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - AREA 6

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

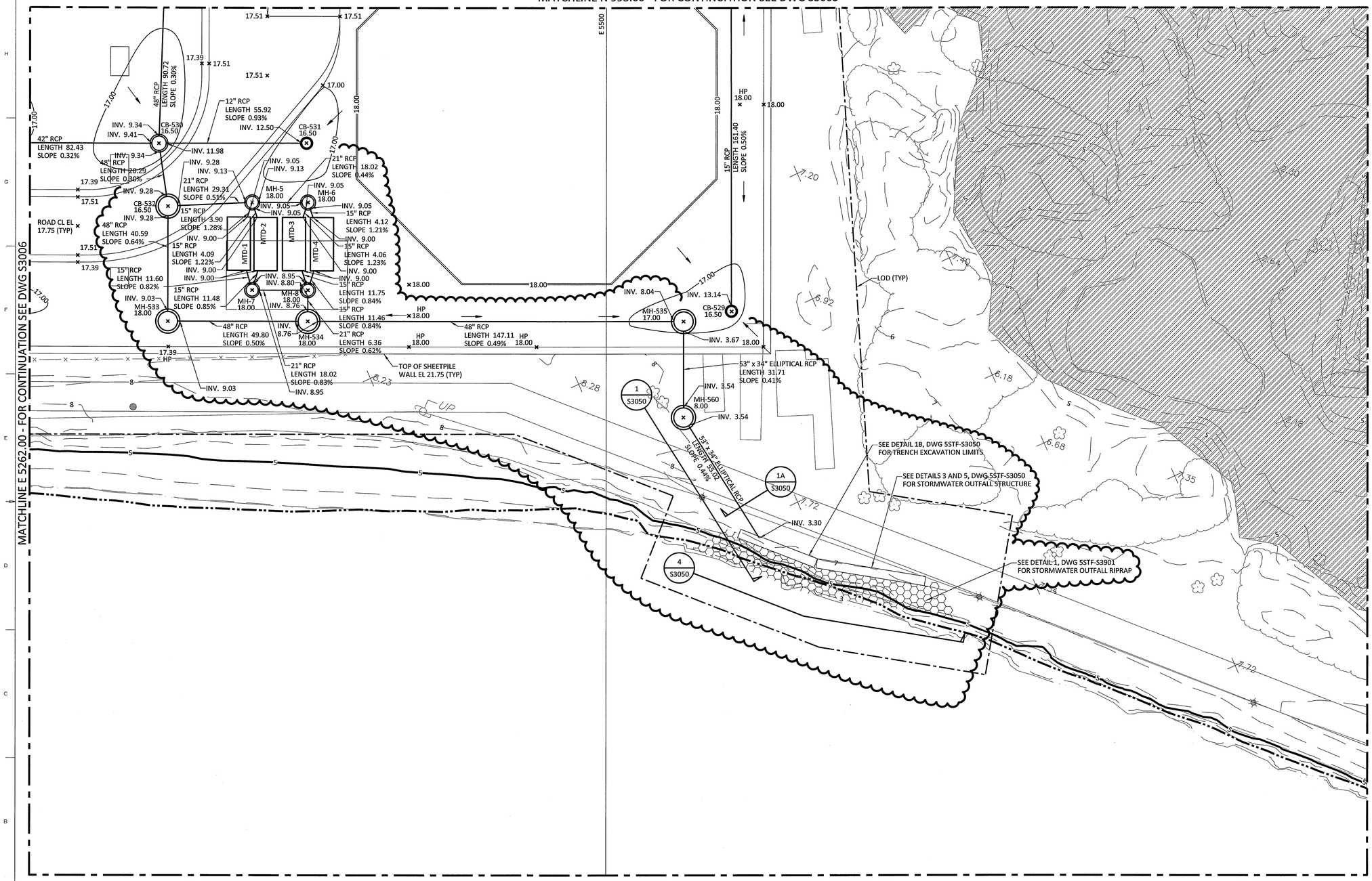
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5STF-S3006

ANSI D SIZE CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ SPONSOR: T. MURPHY VERSION: 2

MATCHLINE N 993.00 - FOR CONTINUATION SEE DWG S3005

MATCHLINE E 5262.00 - FOR CONTINUATION SEE DWG S3006

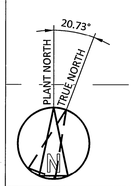


PLAN

SCALE: 1" = 20'-0"

20' 10' 0 20' 40'

1"=20'



TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

NO	DESCRIPTION
2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
Ø	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

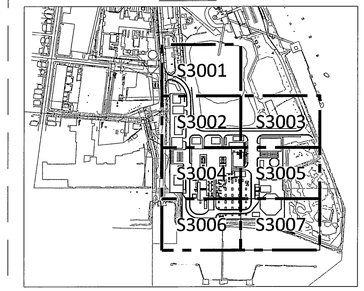
1. SPOT ELEVATIONS AND CONTOURS SHOWN ARE TOP OF FINISHED GRADE. SUBTRACT FINISH SURFACING MATERIAL THICKNESS TO OBTAIN TOP OF SUBGRADE.
2. ALL SPOT ELEVATIONS AT CATCH BASINS OR MAN HOLES SHALL INDICATE TOP OF LID OR GRATE.

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

REFERENCES:



KEYPLAN

SCALE: 1"=500'

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	Ø9/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	Ø9/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF		GJG	MED
Ø	Ø8/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
PLAN - AREA 7

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

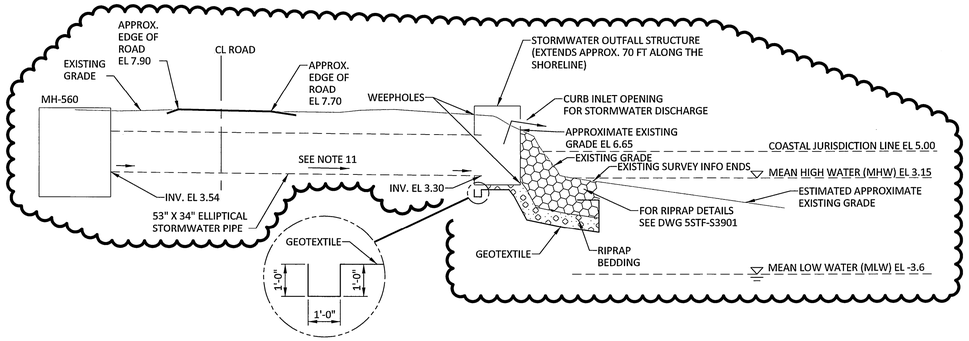
VENDOR NO.
191547-5STF-S3007

ANSI D SIZE

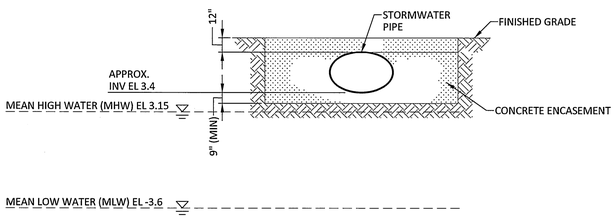
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

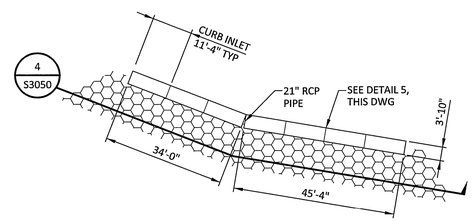
VERSION: 2



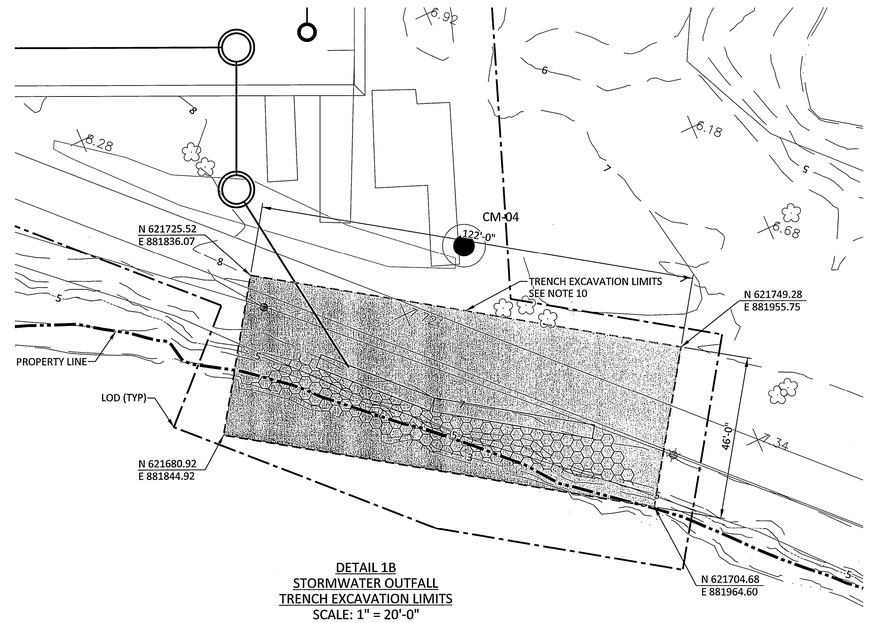
SECTION 1
STORMWATER OUTFALL
NO SCALE
SEE 5STF-S3007



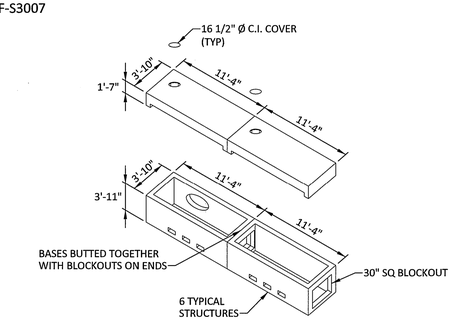
SECTION 1A
STORMWATER PIPE
SCALE: 1" = 5'-0"
SEE DWG S3007



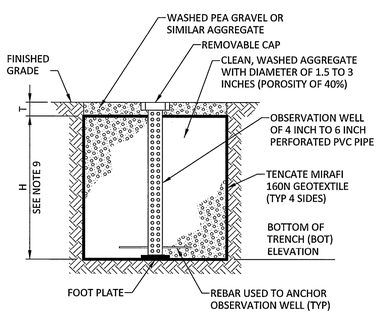
PLAN
STORMWATER OUTFALL STRUCTURE
DETAIL 3
SCALE: 1" = 20'-0"
SEE 5STF-S3007



DETAIL 1B
STORMWATER OUTFALL
TRENCH EXCAVATION LIMITS
SCALE: 1" = 20'-0"
SEE 5STF-S3007

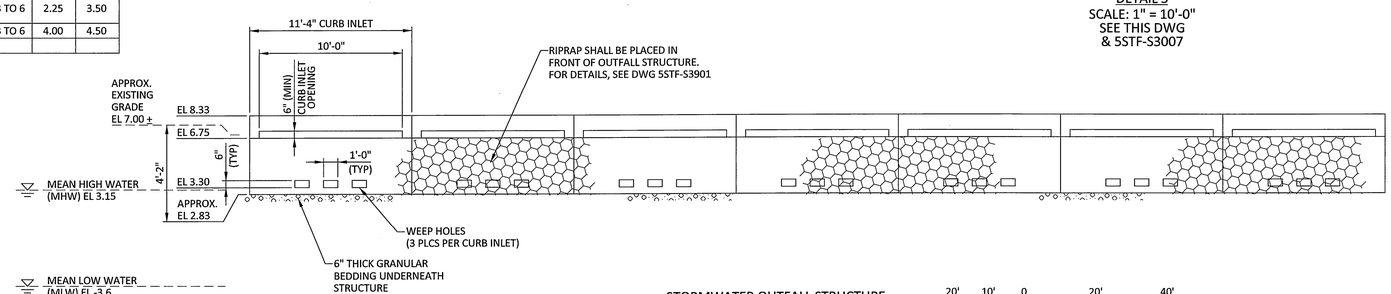


STORMWATER OUTFALL STRUCTURE
DETAIL 5
SCALE: 1" = 10'-0"
SEE THIS DWG
& 5STF-S3007

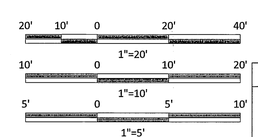


SECTION 2
INFILTRATION TRENCH
NO SCALE
SEE 5STF-S3000 SERIES DWGS
SEE NOTE 8 & 9

INFILTRATION TRENCH #	DWG NUMBER	CONTRACT	T	H	BOT EL
			in	ft (MIN)	
1	S3001	71.0203	3 TO 6	4.00	4.50
2	S3001	71.0203	3 TO 6	4.00	5.00
3	S3003	WESTON & 71.0203	3 TO 6	2.25	3.50
4	S3001	71.0203	3 TO 6	4.00	4.50



STORMWATER OUTFALL STRUCTURE
SECTION 4
SCALE: 1" = 5'-0"
SEE THIS DWG
& 5STF-S3007



DESIGN NOTES:

1. SEE DWG 5STF-S3000 FOR NOTES, LEGEND AND ABBREVIATIONS.
2. STORMWATER DRAINAGE FACILITIES ARE DESIGNED IN ACCORDANCE WITH THE 2004 CONNECTICUT STORMWATER QUALITY MANUAL, THE CITY OF BRIDGEPORT CONNECTICUT DEPARTMENT OF PUBLIC FACILITIES STORMWATER MANAGEMENT MANUAL, AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
5. THE 100-YEAR FLOOD ELEVATION OF 14 FEET NAVD88 IS BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) REFERENCE NO. 09001C0441G, REVISED JULY 8, 2013. THE 500-YEAR FLOOD ELEVATION IS NOT SHOWN ON THE FIRM BUT IS ESTIMATED TO BE 15.3 FEET NAVD88. THE FLOOD INSURANCE RATE STUDY FOR FAIRFIELD COUNTY (STUDY NUMBER 09001CV001C, REVISED OCTOBER 16, 2013) INDICATES THAT THE 500-YEAR STILLWATER ELEVATION IS 1.3 FEET HIGHER THAN THE 100-YEAR STILLWATER ELEVATION. THEREFORE, THE MINIMUM GRADE EL = 16.5 FT NAVD88 IS ABOVE THE 500-YEAR FLOOD ELEVATION OF 15.3 FEET.
6. MEAN HIGH HIGH WATER (MHHW)= 3.48' (NAVD-88)
   MEAN HIGH WATER (MHW) = 3.15' (NAVD-88)
   MEAN LOW WATER (MLW) = -3.6' (NAVD-88)
   MEAN LOW LOW WATER (MLLW) = -3.84' (NAVD-88)
   PER NOAA BRIDGEPORT STATION 846150.
7. RIPRAP APRON DESIGN SHALL COMPLY WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL. THE APRON SHALL EXTEND TO THE MEAN LOW WATER ELEVATION.
8. INFILTRATION TRENCHES SHALL BE INSTALLED AFTER FINAL STABILIZATION.
9. INFILTRATION TRENCH DEPTH IS AT LOWEST FINISHED GRADE ELEVATION. TRENCH BOTTOM SHALL BE KEPT AT CONSTANT ELEVATION.
10. SLOPES SHOULD BE CUT BACK AT A 1.5:1 SLOPE OR AS DIRECTED BY GEOTECHNICAL ENGINEER.
11. AS INDICATED WITH FLOW ARROWS, STORMWATER WILL DRAIN TO THE STORMWATER OUTFALL STRUCTURE AND DISCHARGE THROUGH THE CURB INLET OPENING. THE CURB INLET OPENING (WEIR FLOW) IS SIZED FOR 25YR STORM EVENT. STANDING WATER INSIDE THE OUTFALL STRUCTURE WILL DRAIN OUT THROUGH THE WEEP HOLES AT THE BOTTOM OF STRUCTURE. THERE ARE ALSO WEEP HOLES ON THE OPPOSITE FACE OF THE STRUCTURE THAT ALLOWS SURFACE DRAINAGE FROM THE EXISTING ROAD TO FLOW INTO OUTFALL STRUCTURE. THIS SURFACE DRAINAGE SHOULD BE MINIMAL.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
4	10/26/16	C.01950	PERMIT ISSUE	JDL	CAF	BMH	X	GLG	MED
3	10/20/16	C.01950	ISSUED FOR REVIEW	JDL	PLS	BMH			
2	09/14/16	C.01950	PERMIT ISSUE	RJW	CAF	BMH	X	GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	CAF	BMH	X	GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT 05
YARD
GRADING & DRAINAGE
SECTION & DETAILS

SECTIONS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5STF-S3050

TECHNICAL TABLES/SPECIFICATIONS:

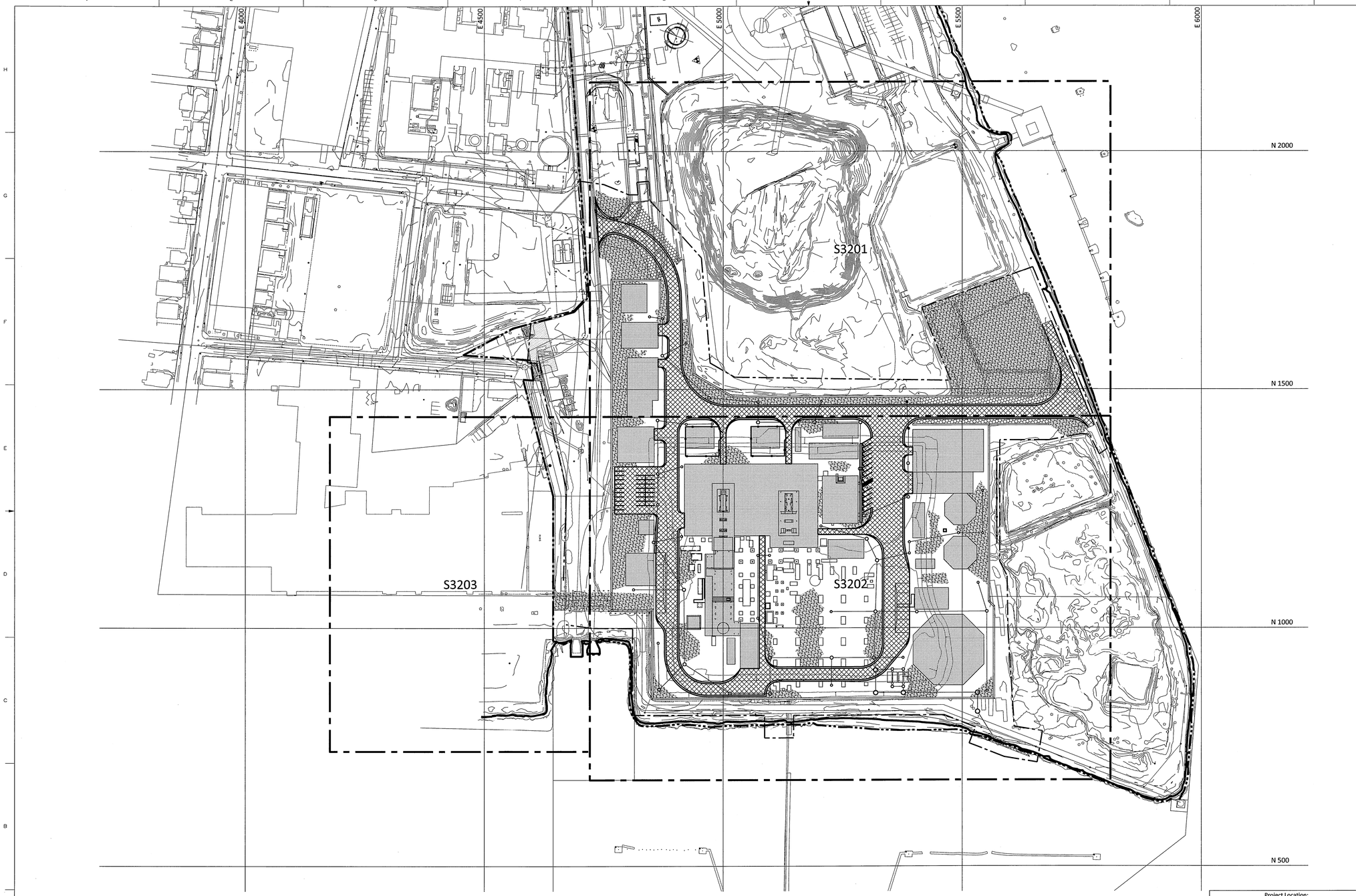
1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

4	ISSUED FOR PERMITTING
3	ISSUED FOR REVIEW
2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ ELEC. ____ | MECH. ____ CIVIL ____ | SPON. ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 4



LEGENDS/SYMBOL KEYS:

- -COASTAL JURISDICTION LINE
- LIMITS OF DISTURBANCE
- PROPERTY LINE ALONG MEAN HIGH WATER
- MATCH LINE
- NEW SECURITY FENCE
- PROPOSED STRUCTURES
- ASPHALT SURFACING
- AGGREGATE SURFACING
- REINFORCED CONCRETE
- GRASS
- RIPRAP

DESIGN NOTES:

1. ALL ROADS SHALL BE ASPHALT PAVED, UNLESS NOTED OTHERWISE.
2. ALL AREAS AROUND BUILDINGS AND TANKS SHALL BE GRAVEL SURFACED.
3. SEE DRAWINGS 5STD-S3915 AND 5STD-S3915A FOR FENCE DETAILS.

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF	X	GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF	X	GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	EAH	BMH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
SURFACING, FENCING & LANDSCAPING
KEY PLAN, GENERAL NOTES & LEGEND

ARRANGEMENT DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

100' 50' 0 100' 200'
1"=100'

PLANT NORTH · TRUE NORTH · 20.73° · N

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

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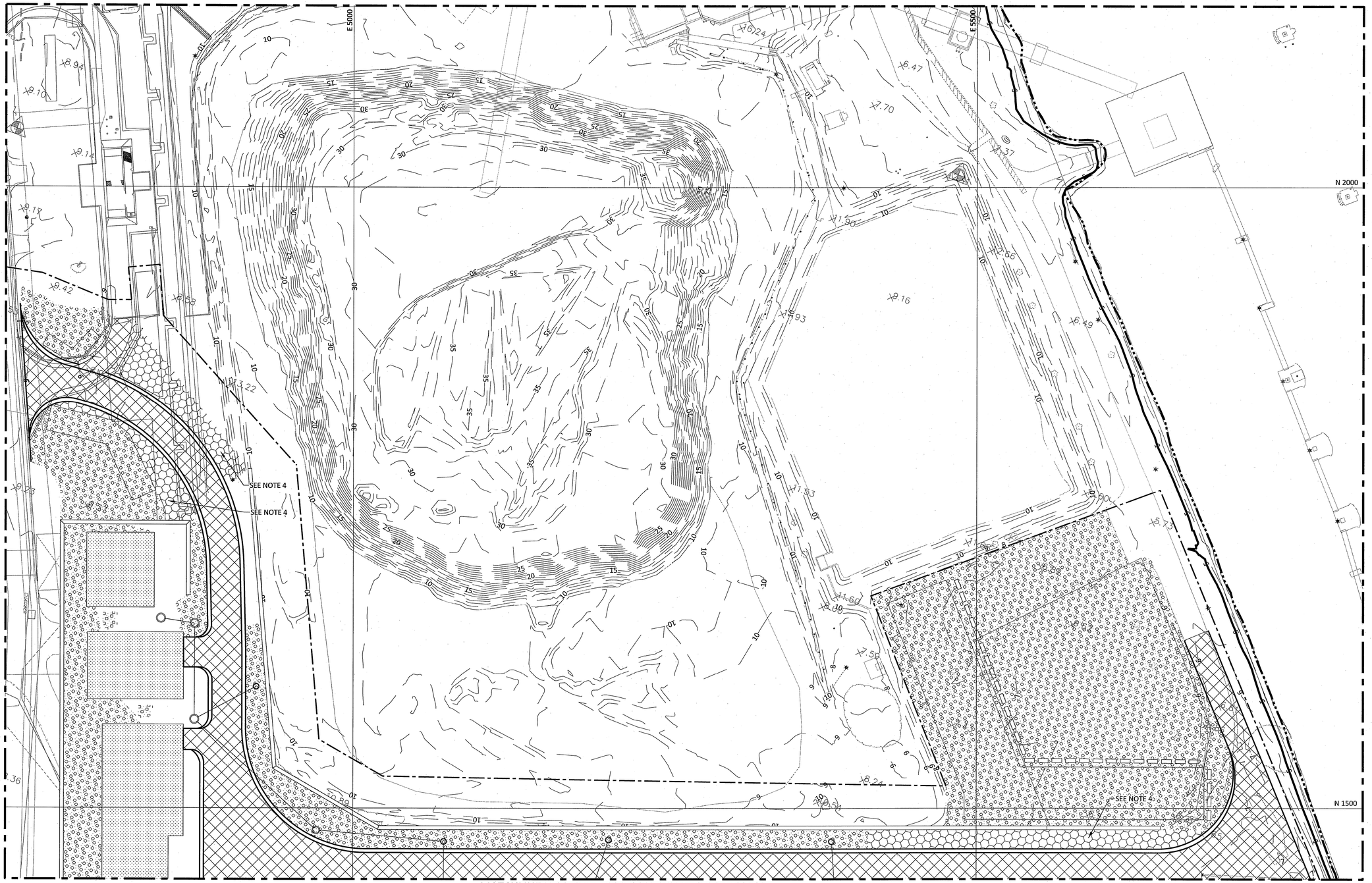
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5STD-S3200

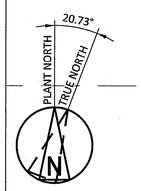
ANSI D SIZE · CONT. · MECH. · SPON. · ELEC. · CIVIL · OTHER · SPONSOR: T. MURPHY · VERSION: 2



MATCHLINE N 1443.00 - FOR CONTINUATION SEE S3202

PLAN

SCALE: 1" = 40'-0"



TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

40' 20' 0 40' 80'

1"=40'

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SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STD-S3200 FOR LEGENDS & SYMBOL KEYS.

ISSUED FOR PERMITTING

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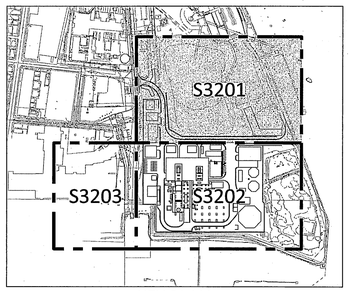
DESIGN NOTES:

1. ALL ROADS INDICATED AS NEW ON DRAWINGS SHALL BE ASPHALT PAVED, UNLESS NOTED OTHERWISE.
2. ALL AREAS AROUND BUILDINGS AND TANKS SHALL BE GRAVEL SURFACED.
3. SEE DRAWINGS 5STD-S3915 AND 5STD-S3915A FOR FENCE DETAILS.
4. AREA SHALL BE COVERED WITH RIP RAP.

STATE OF CONNECTICUT MARK A. VANCE LICENSED PROFESSIONAL ENGINEER

REFERENCES:



KEY PLAN

SCALE: 1" = 500'-0"

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C0.1950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
SURFACING, FENCING & LANDSCAPING
PLAN-AREA 1

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

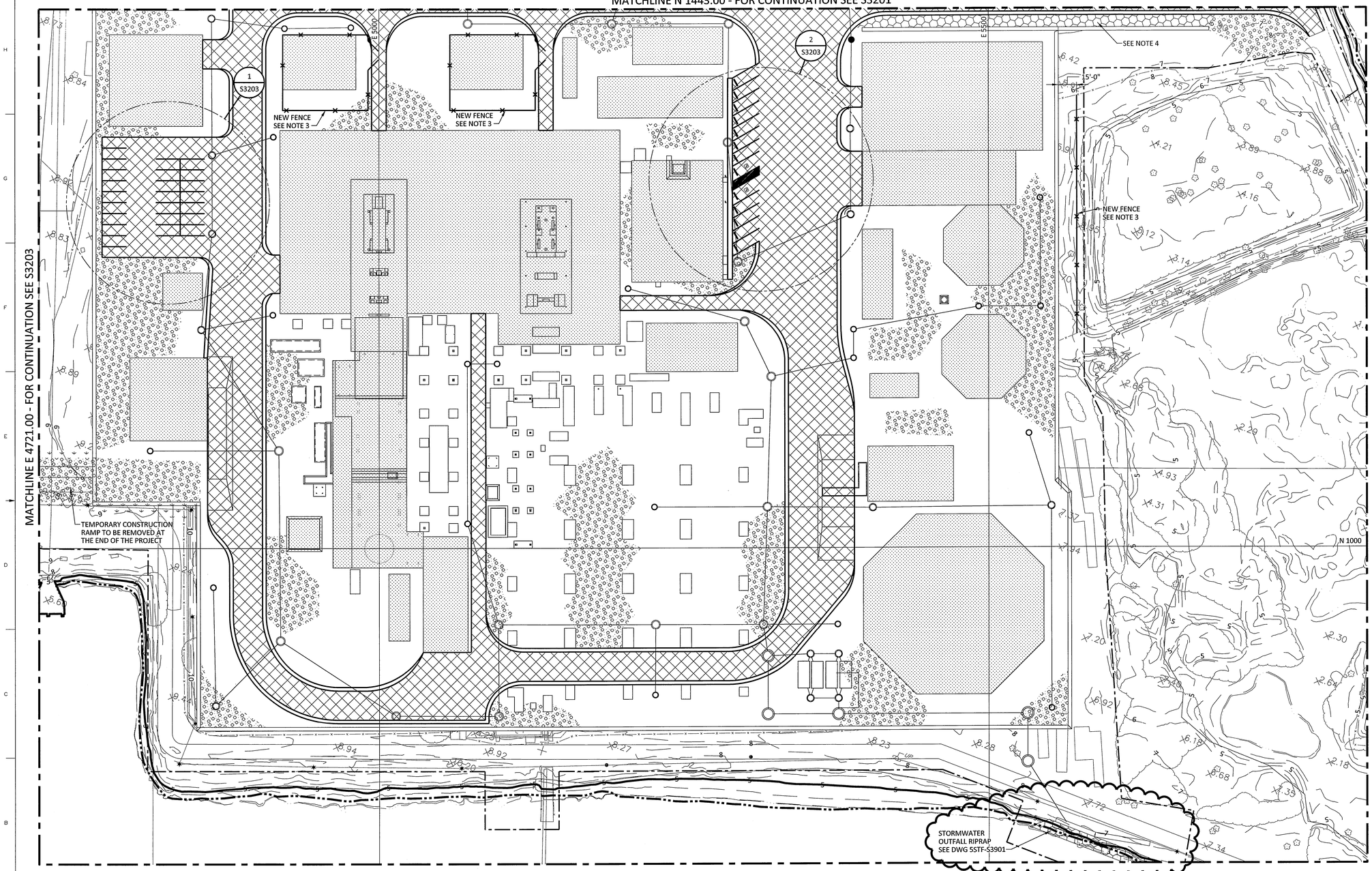
191547-5STD-S3201

ANSI D SIZE

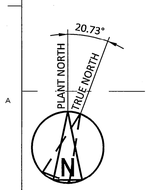
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



PLAN
SCALE: 1" = 40'-0"



40' 20' 0 40' 80'
1"=40'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27647

Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STD-S3200 FOR LEGENDS & SYMBOL KEYS.

STATE OF CONNECTICUT
MARK A. VANCE
27647
LICENSED
PROFESSIONAL ENGINEER

DESIGN NOTES:

1. ALL ROADS INDICATED AS NEW ON DRAWINGS SHALL BE ASPHALT PAVED, UNLESS NOTED OTHERWISE.
2. ALL AREAS AROUND BUILDINGS AND TANKS SHALL BE GRAVEL SURFACED.
3. SEE DRAWINGS 5STD-S3915 AND 5STD-S3915A FOR FENCE DETAILS.
4. AREA SHALL BE COVERED IN RIP RAP.

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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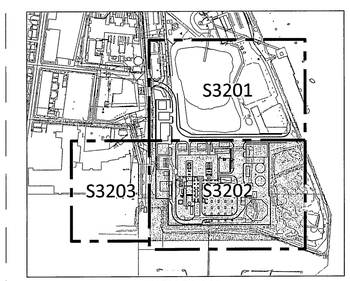
REFERENCES:



KEY PLAN
SCALE: 1" = 500'-0"

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1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
SURFACING, FENCING & LANDSCAPING
PLAN-AREA 2

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

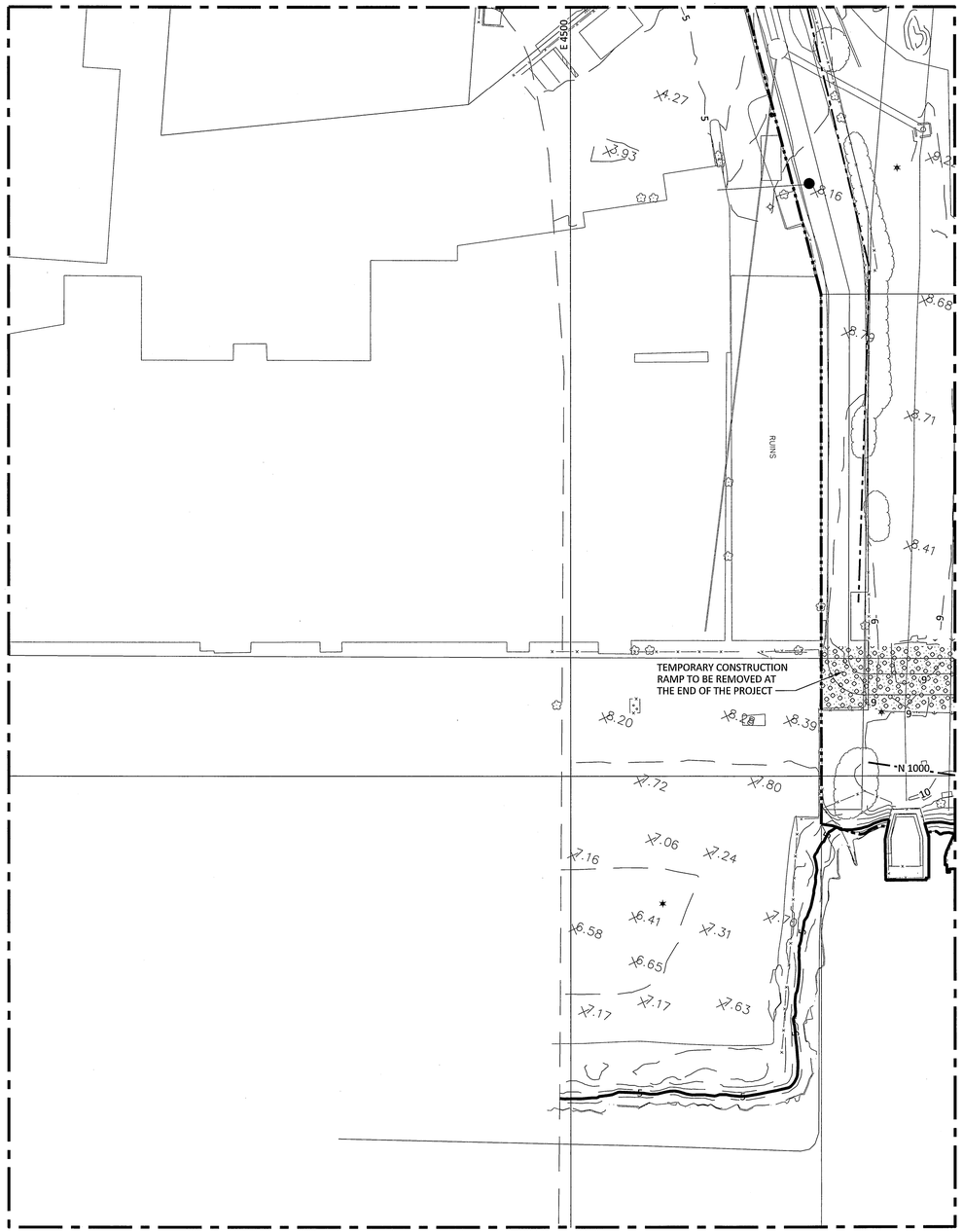
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

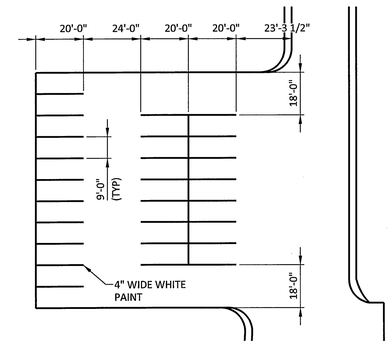
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-5STD-S3202

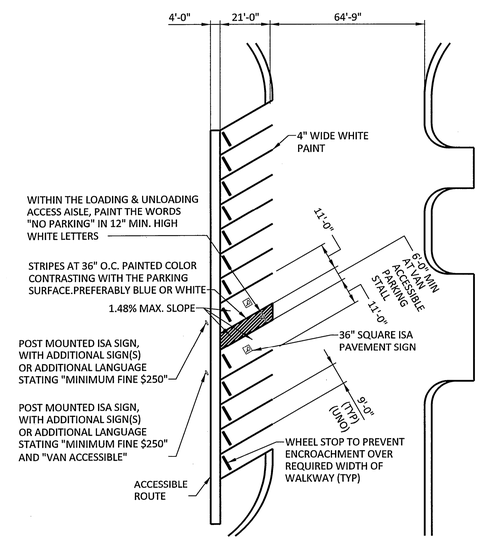
ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 2



PLAN
SCALE: 1" = 40'-0"



DETAIL 1
PARKING LAYOUT
SCALE: 1" = 30'-0"
SEE DWG S3202



DETAIL 2
ADA PARKING & PARKING LAYOUT
SCALE: 1" = 30'-0"
SEE DWG S3202
SEE NOTE 4

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STD-S3200 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. ALL ROADS INDICATED AS NEW ON DRAWINGS SHALL BE ASPHALT PAVED, UNLESS NOTED OTHERWISE.
2. ALL AREAS AROUND BUILDINGS AND TANKS SHALL BE GRAVEL SURFACED.
3. SEE DRAWINGS 5STD-S3915 AND 5STD-S3915A FOR FENCE DETAILS.
4. ONLY ONE ADA VAN ACCESSIBLE PARKING SPACE IS REQUIRED.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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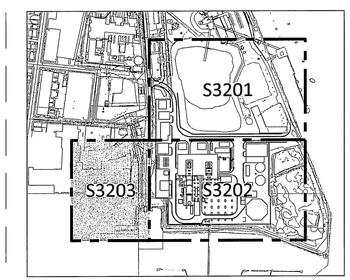
REFERENCES:



KEY PLAN
SCALE: 1" = 500'-0"

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	TAR	EAH	BMH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
SURFACING, FENCING & LANDSCAPING
PLAN

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	EMILY HOVDA	BLIA HER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5STD-S3203

30' 20' 10' 0 30' 60'
1"=30'

40' 20' 0 40' 80'
1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

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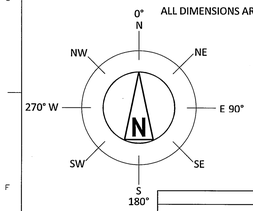
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0

DRAINAGE STRUCTURE TABLE																												
DRAINAGE STRUCTURE INFORMATION										PIPE INFORMATION																		
ID	PLAN DWG #	CENTER COORDINATES		INSIDE DIMS	STR DETAIL TYPE	TOP EL	BOT SLAB TOC EL	PURCHASE SPEC	INSTALLATION SPEC	N		NE		E		SE		S		SW		W		NW		REMARKS
		NORTHING	EASTING							DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	
MTD-1	S3007	895.65	5348.22	22'-0" x 9'-6""	Precast	18.00	5.08			{ }	{ }	{15 (58")}	{9.00}			{15 (148")}	{ 9.00 }	{ }	{ }							
MTD-2	S3007	895.46	5359.27	22'-0" x 9'-6""	Precast	18.00	5.08			{ }	{ }							{ }	{ }	{15 (238")}	{9.00}			{15 (328")}	{9.00}	
MTD-3	S3007	895.52	5370.99	22'-0" x 9'-6""	Precast	18.00	5.08			{ }	{ }	{15 (58")}	{9.00}			{15 (148")}	{ 9.00 }	{ }	{ }							
MTD-4	S3007	895.46	5382.54	22'-0" x 9'-6""	Precast	18.00	5.08			{ }	{ }							{ }	{ }	{15 (238")}	{9.00}			{15 (328")}	{9.00}	
MH-5	S3007	912.74	5353.75	5'-0"	Precast	18.00	8.30							21	{9.13}	{15 (148")}	{ 9.05 }			{15 (238")}	{9.05}	21 (267")	{9.13}			
MH-6	S3007	912.74	5376.77	5'-0"	Precast	18.00	8.25									{15 (148")}	{ 9.05 }	{ }	{ }	{15 (238")}	{9.05}	21	{9.05}			
MH-7	S3007	876.40	5353.75	5'-0"	Precast	18.00	8.10			{ }	{ }	{15 (58")}	{8.95}	{ 21 }	{8.95}							{ }	{ }	{15 (328")}	{8.95}	
MH-8	S3007	876.40	5376.77	5'-0"	Precast	18.00	{ 8.00 }			{ }	{ }	{15 (58")}	{8.95}		{ }			{21}	8.80			21	{8.80}	{15 (328")}	{8.95}	
MH-518	S3005	1186.25	5300.00	6'-0"	Precast	{16.80}	9.10			36 (354")	9.91					42 (154")	9.91					15 (286")	12.21			
MH-533	S3007	{ 863.54 }	{5318.97}	{8'-0"}	Precast	18.00	{ 8.25 }			{ 48 }	{ 9.03 }			{ 48 }	{9.03}							{ }	{ }			
MH-534	{S3007}	{ 863.54 }	{5376.77}	8'-0"	Precast	{18.00}	{ 8.00 }			{ 21 }	{ 8.76 }			48	{8.76}							{48}	{8.76}			
MH-535	{S3007}	{ 863.54 }	{5531.88}	8'-0"	Precast	{17.00}	{ 2.90 }											53 x 34 (e)	{3.67}			{48}	{8.04}			(e) INDICATES ELLIPTICAL PIPE
{MH-560}	{S3007}	{ 823.83 }	{5531.88}	{8'-0"}	{Precast}	{ 8.00 }	{ 2.75 }			{53 x 34 (e)}	{ 3.54 }					{53 x 34 (e) (148")}	{ 3.54 }									{(e) INDICATES ELLIPTICAL PIPE}

ALL DIMENSIONS ARE IN FEET, EXCEPT PIPE DIAMETER, WHICH IS IN INCHES. ALL PIPES SHALL BE RCP.



DRAINAGE STRUCTURE TABLE																												
DRAINAGE STRUCTURE INFORMATION										PIPE INFORMATION																		
ID	PLAN DWG #	CENTER COORDINATES		INSIDE DIMS	STR DETAIL TYPE	TOP EL	BOT SLAB TOC EL	PURCHASE SPEC	INSTALLATION SPEC	N		NE		E		SE		S		SW		W		NW		REMARKS
		NORTHING	EASTING							DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	DIA	INV	
CB-501	S3002	1652.78	4845.80	4'-0"	Precast	16.50	12.10							12 (99")	12.61											
CB-502	S3002	1648.56	4872.86	4'-0"	Precast	16.50	11.80											18	12.38			12 (279")	12.39			
CB-503	S3002	1597.76	4922.25	4'-0"	Precast	16.50	12.00													12 (242")	12.52					
CB-504	S3002	1571.50	4872.64	5'-0"	Precast	16.50	11.50			18	12.02	12 (62")	12.01			21 (132")	12.01									
CB-505	S3002	1482.38	4970.44	5'-0"	Precast	16.50	11.10							24 (95")	11.63									21 (312")	11.63	
CB-506	S3002	1473.31	5072.84	{5'-0"}	Precast	16.50	10.80											24	11.34			24 (275")	11.34			
CB-507	S3002	1431.18	5072.84	6'-0"	Precast	16.50	10.70			24	11.23			27	11.23											
CB-508	S3002	1431.09	5191.00	6'-0"	Precast	16.50	10.30			12 (18")	11.88			30	10.89							27	10.89			
CB-509	S3002	1474.72	5205.19	4'-0"	Precast	16.50	12.00											12 (198")	12.49							
CB-510	S3003	1430.97	5286.97	6'-0"	Precast	16.50	10.00											30	10.60			30	10.61			
CB-511	S3005	1333.56	5286.16	6'-0"	Precast	16.50	9.50			30	10.32							36 (175")	10.32							
CB-512	S3005	1235.25	5294.50	6'-0"	Precast	16.50	9.25			36 (355")	10.04	21 (67")	11.31					36 (174")	10.04							
CB-513	S3003	1473.31	5383.96	4'-0"	Precast	16.50	12.75											12 (176")	13.26							
CB-514	S3003	1417.54	5387.72	4'-0"	Precast	16.50	11.90			12 (356")	12.48							15 (181")	12.48							
CB-515	S3005	1344.50	5386.67	5'-0"	Precast	16.50	11.30			15 (1")	11.79							18	11.79							
CB-516	S3005	1273.91	5387.00	5'-0"	Precast	16.50	11.10			18	11.60									21 (247")	11.60					
CB-517	S3004	1213.46	5204.38	{6'-0"}	Precast	16.50	12.60							15 (106")	13.18											
CB-519	S3005	1140.75	5321.75	6'-0"	Precast	16.50	9.10							24 (77")	10.14			48 (182")	9.91					42 (334")	9.78	
CB-520	S3005	1155.81	5389.30	4'-0"	Precast	16.50	9.80			18	10.33											24 (257")	10.33			
CB-521	S3005	1179.51	5389.27	4'-0"	Precast	16.50	9.90							18 (80")	10.39			18	10.39							
CB-522	S3005	1197.94	5491.87	4'-0"	Precast	16.50	10.20							15	10.69							18 (260")	10.69			
CB-523	S3005	1197.98	5542.66	4'-0"	Precast	16.50	10.60			15	11.14											15	11.14			
CB-524	S3005	1287.05	5542.28	4'-0"	Precast	16.50	11.90											15	12.39							
CB-525	S3005	1033.82	5318.49	6'-0"	Precast	16.50	8.80			48 (2")	9.61			24 (91")	11.68			48 (182")	9.61			12	12.24			
CB-526	S3005	1033.02	5404.98	5'-0"	Precast	16.50	11.40							21	11.92							24 (271")	11.92			
CB-527	S3005	1034.16	5551.36	5'-0"	Precast	16.50	11.80			12 (343")	12.33							15	12.34			21	12.33			
CB-528	S3005	1093.75	5533.00	4'-0"	Precast	16.50	12.10											12 (163")	12.62							
CB-529	S3007	867.76	5551.65	4'-0"	Precast	16.50	12.60			15	13.14															
CB-530	S3007	937.15	5315.20	6'-0"	Precast	16.50	8.50			48 (2")	9.34			12	11.98			48 (172")	9.34			42	9.41			
CB-531	S3007	937.29	5376.13	4'-0"	Precast	16.50	12.00															12	12.50			
CB-532	S3007	911.13	5318.97	{8'-0"}	Precast	16.50	{ 8.50 }			48 (352")	9.28			{21 (87.35")}	{9.28}			{ 48 }	{9.28}							SEE DETAIL 1, DWG STF-S3900B
CB-536	S3002	1428.13	4977.03	4'-0"	Precast	16.50	12.60															12 (269")	13.11			
CB-537	S3002	1427.37	4922.56	4'-0"	Precast	16.50	12.10							12 (89")	12.61							12 (278")	12.61			
CB-538	S3002	1435.49	4862.67	5'-0"	Precast	16.50	11.80							12 (98")	12.33			27	12.33							
CB-539	S3004	1338.38	4913.39	4'-0"	Precast	16.50	12.00															12 (253")	12.49			
CB-540	S3004	1323.43	4863.10	5'-0"	Precast	16.50	11.50			27	12.01			12 (73")	12.01			30	12.01							
CB-543	S3004	1258.87	4863.15	5'-0"	Precast	16.50	11.30			30	11.83							30 (186")	11.83							
CB-544	S3004	1192.00	4912.95	4'-0"	Precast	16.50	12.40															12 (258")	12.90			
CB-545	S3004	1179.92	4854.23	5'-0"	Precast	16.50	11.00			30 (6")	11.61			12 (78")	12.33	36 (147")	11.61									
CB-546	S3004	1080.25	4917.75	6'-0"	Precast	16.50	10.70											36	11.28			12	12.20	36 (327")	11.28	
CB-547	S3004	1080.19	4812.17	4'-0"	Precast	16.50	12.70							12	13.20											
CB-548	S3006	923.98	4919.07	6'-0"	Precast	16.50	10.00			36	10.80					42 (123")	10.80			12	10.87					
CB-549	S3006	967.95	4863.89	4'-0"	Precast	16.50	12.00											12 (179")	12.56							
CB-550	S3006	870.71	4865.90	5'-0"	Precast	16.50	10.60			12 (359")	11.18	12	11.18													
CB-551	S3006	862.27	5013.79	6'-0"	Precast	17.50	9.70							42	10.49									42 (303")	10.49	
CB-552	S3006	862.07	5098.06	6'-0"	Precast	16.50	9.50			42	10.27											42	10.27			
CB-553	S3006	937.40	5097.90	6'-0"	Precast	16.50	9.30			24 (343")	11.82			42	10.06			42	10.06							
CB-554	S3004	1020.41	5072.42	4'-0"	Precast	16.50	11.50			24	12.06							24 (163")	12.06							
CB-555	S3004	1151.64	5072.48	4'-0"	Precast	16.50	11.90							12	12.44			24	12.44							
CB-556	S3004	1151.67	5096.80	4'-0"	Precast	16.50	12.10															12	12.64			
CB-557	S3006	879.35	5226.52	4'-0"	Precast	16.50	12.50			12	13.00															
CB-558	S3006	937.20	5226.77	6'-0"	Precast	16.50	8.90							42	9.67			12	12.21			42	9.68			
CB-559	S3004	1033.82	5225.78	4'-0"	Precast	16.50	12.60							12	13.11											

ALL DIMENSIONS ARE IN FEET, EXCEPT PIPE DIAMETER, WHICH IS IN INCHES. ALL PIPES SHALL BE RCP.

LEGENDS/SYMBOL KEYS:

1. SEE DWG 5STF-S3000 FOR LEGENDS & SYMBOL KEYS

DESIGN NOTES:

1. SEE DWG 5STF-S3900B AND S3900C FOR CATCH BASIN AND MANHOLE DETAILS.

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
CATCH BASIN & MANHOLE DETAILS

STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

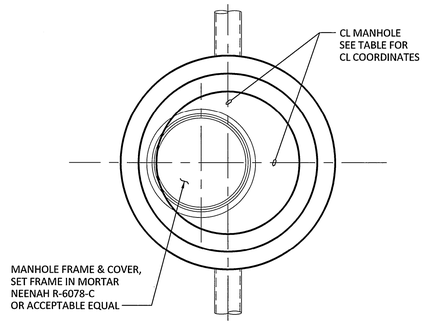
VENDOR NO.

191547-5STF-S3900A

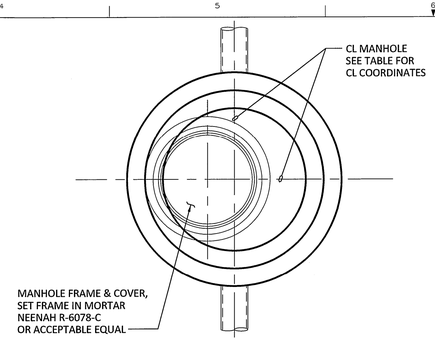
ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY VERSION: 2



PLAN



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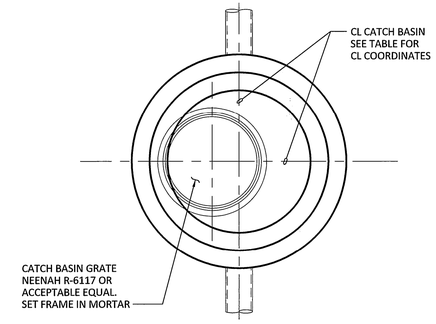

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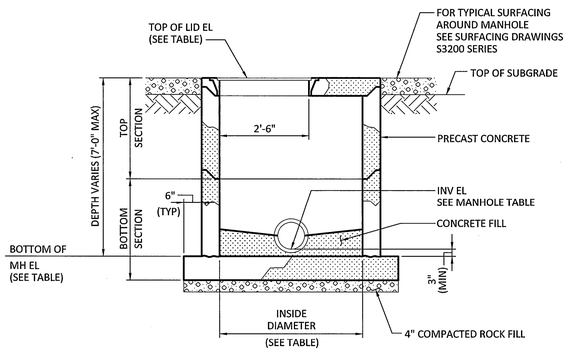
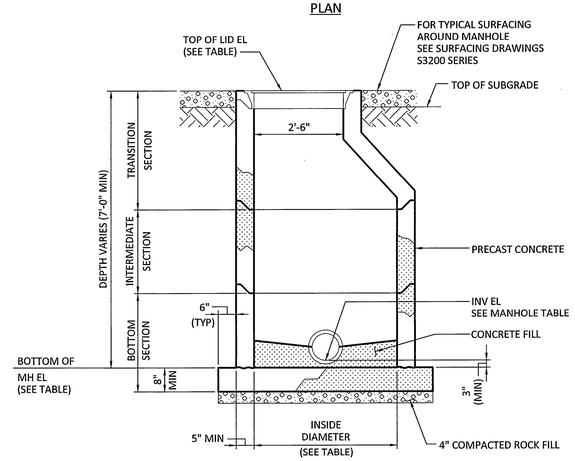


SECTION

TYPICAL PRECAST MANHOLE UNDER 7'-0"

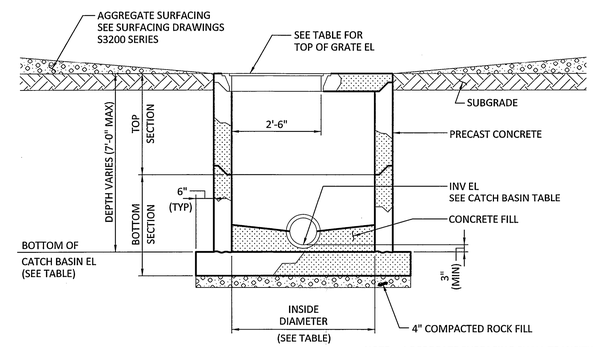
NO SCALE



SECTION

TYPICAL PRECAST MANHOLE 7'-0" AND OVER

NO SCALE

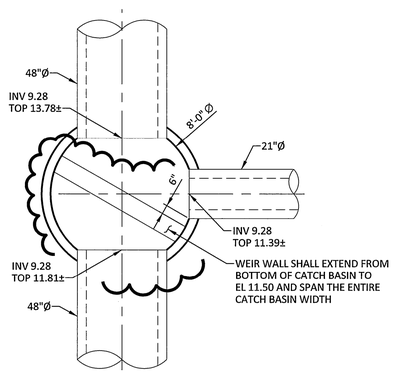


SECTION

NOTE: AGGREGATE SURFACING SHALL TRANSITION FROM 0 AT THE EDGE OF THE MANHOLE TO FULL DEPTH WITHIN 5' OF THE MANHOLE EDGE

TYPICAL PRECAST CATCH BASIN UNDER 7'-0"

NO SCALE



DETAIL 1
CB-532
NO SCALE
SEE DWG 5STF-S3900A

LEGENDS/SYMBOL KEYS:

1. SEE 5STF-S3000 SERIES DRAWINGS FOR CATCH BASIN AND MANHOLE LOCATIONS.

DESIGN NOTES:

1. SEE DRAWING S3000 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE DRAWING S3900A FOR CATCHBASIN AND MANHOLE TABLES.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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REVISION NOTES:

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2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF	X	GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF	X	GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
TYP MANHOLE AND CATCH BASIN DETAILS

STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG *Power Connecticut LLC*

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

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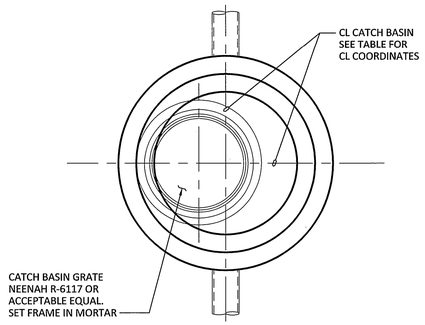
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

DRAWN (B&V) REBECCA WILLIAMS	CHECKED (B&V) BLIA HER	EXAMINED (B&V) CHRIS FINN	
REVIEWED (B&V)	REVIEWED (B&V) GRAYLYN GARR	APPROVED (B&V) MICHAEL DRAKE	

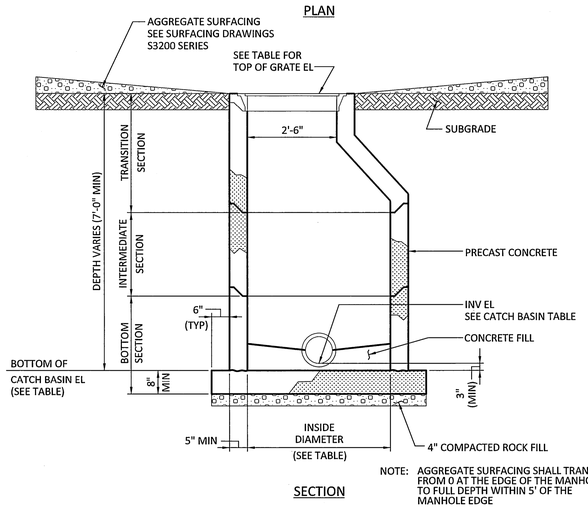
VENDOR NO.
191547-5STF-S3900B

NO	DESCRIPTION
2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

ANSI D SIZE | CONT. ____ ELEC. ____ | MECH. ____ CIVIL ____ | SPON. ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 2



PLAN

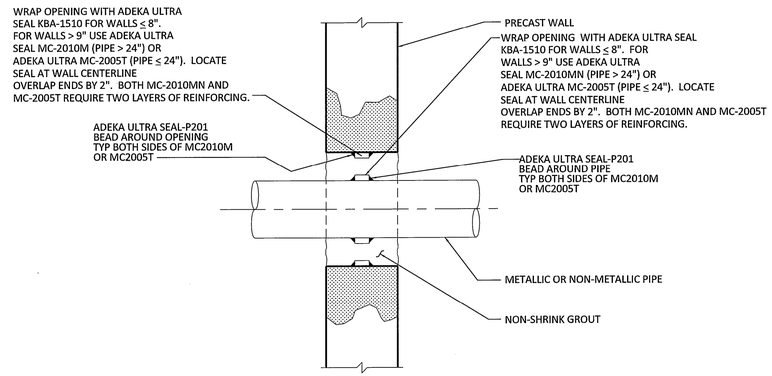


NOTE: AGGREGATE SURFACING SHALL TRANSITION FROM 0 AT THE EDGE OF THE MANHOLE TO FULL DEPTH WITHIN 5' OF THE MANHOLE EDGE

SECTION

TYPICAL PRECAST CATCH BASIN 7'-0" AND OVER

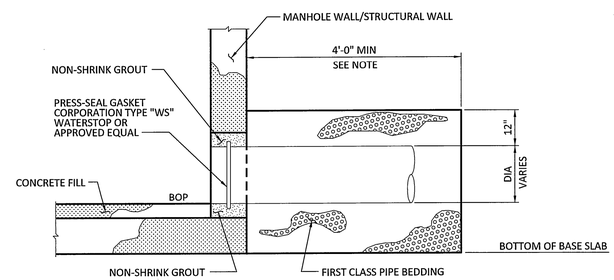
NO SCALE



NOTE: IF ADEKA PRODUCTS NOTED IN THIS DETAIL ARE NOT AVAILABLE, AN ACCEPTABLE EQUAL SHALL BE PROVIDED.

OPTIONAL WALL PENETRATION DETAIL

NO SCALE



NOTE: FIRST CLASS PIPE BEDDING TO LIMITS SHOWN OR EDGE OF MANHOLE EXCAVATION WHICHEVER IS GREATER.

TYPICAL WALL PENETRATION DETAIL

NO SCALE

LEGENDS/SYMBOL KEYS:

1. SEE SSTF-S3000 SERIES DRAWINGS FOR CATCH BASIN AND MANHOLE LOCATIONS.

DESIGN NOTES:

1. SEE DRAWING S3000 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. SEE DRAWING S3900A FOR CATCHBASIN AND MANHOLE TABLES.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING SSTF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.Ø1950	ISSUED FOR REVIEW	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
TYP MANHOLE AND CATCH BASIN DETAILS

STANDARDS DESIGN-CIVIL GENERAL

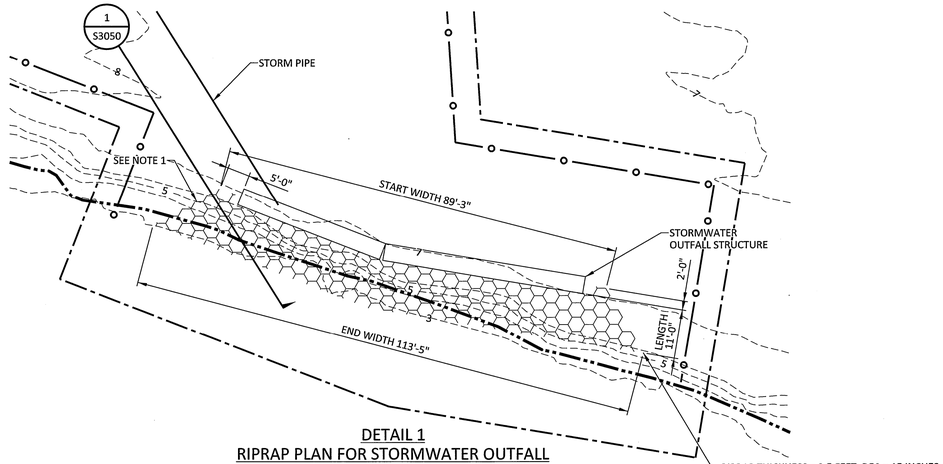
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5STF-S3900C

ANSI D SIZE | CONT. ____ ELEC. ____ MECH. ____ CIVIL ____ SPON. ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



DETAIL 1
RIPRAP PLAN FOR STORMWATER OUTFALL

SCALE: 1/16" = 1'
SEE DWG 5STF-S3007

RIPRAP THICKNESS = 2.5 FEET, D50 = 15 INCHES
RIPRAP BEDDING THICKNESS = 12 INCHES
GEOTEXTILE
SEE NOTE 1
APPROXIMATE RIPRAP IS 4,200 CUBIC FEET

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STF-S3000 FOR LEGENDS AND SYMBOLS KEYS.

DESIGN NOTES:

1. THE PROPOSED STORMWATER OUTFALL STRUCTURE IS LOCATED IN AN AREA WITH EXISTING RIP RAP. THE EXISTING RIP RAP DOWN GRADIENT OF THE OUTFALL STRUCTURE WILL BE IMPROVED WITH GEOTEXTILE AND BEDDING; WITH RE-USE OF EXISTING RIP RAP, AS REQUIRED. THE EXISTING SLOPE AND EXISTING RIP RAP D50 SIZE WILL BE MAINTAINED. THE RIP RAP APRON DOWN GRADIENT OF OUTFALL STRUCTURE IS SIZED TO DISSIPATE ENERGY FROM THE 25YR STORM FLOWRATE FROM OUTFALL STRUCTURE. FROM THE AERIAL SURVEY AND PHOTOGRAPHY, THE PROPOSED RIP RAP APRON WIDTH AND LENGTH IS WITHIN THE EXISTING RIP RAP LIMITS, AND WILL BE FIELD VALIDATED DURING INSTALLATION.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	Ø9/14/16	C.Ø1950	PERMIT ISSUE	RJW	BMH	CAF	X	GLG	MED
1	Ø9/Ø6/16	C.Ø1950	ISSUED FOR REVIEW	RJW	BMH	CAF	X	GLG	MED
Ø	Ø8/25/16	C.Ø1950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
GRADING & DRAINAGE
RIPRAP DETAILS

STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

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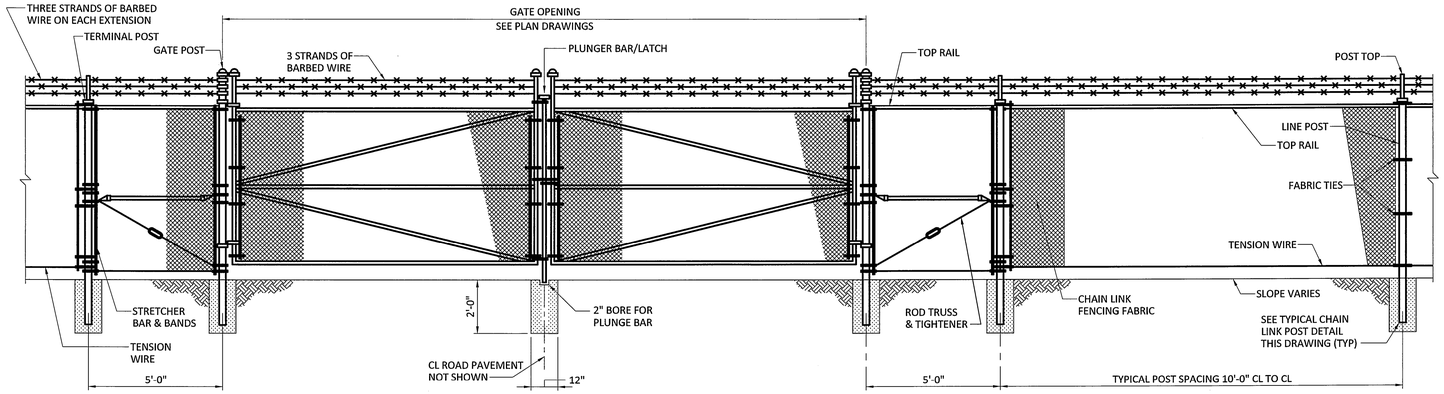
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

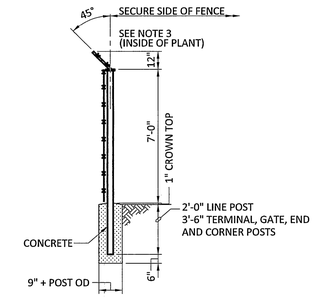
VENDOR NO.
191547-5STF-S3901

ANSI D SIZE | CONT. ELEC. | MECH. CIVIL | SPON. OTHER | SPONSOR: T. MURPHY | VERSION: 2



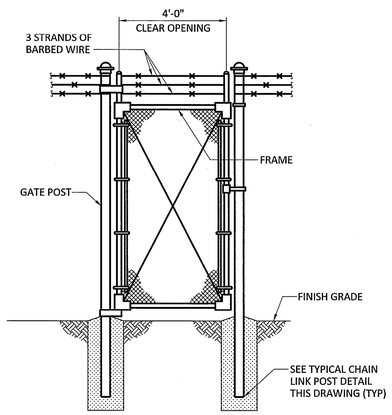
TYPICAL CHAIN LINK SECURITY FENCE WITH SWING GATE

NO SCALE



TYPICAL CHAIN LINK POST

NO SCALE



TYPICAL PERSONNEL GATE DETAIL

NO SCALE

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STD-S3201 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SEE DRAWING S3000 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. FOR FENCE GROUNDING DETAILS AND NOTES, SEE DRAWING E2550.
3. WIRE TIES, RAILS, POSTS AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN LINK FABRIC SHALL BE ON THE SIDE OPPOSITE OF THE SECURE SIDE.
4. SEE S3200 SERIES DRAWINGS FOR FENCING LAYOUT.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STD-S3201 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED · PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

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Corporate Headquarters:
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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.Ø1950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
FENCING
DETAILS AND SECTIONS

STANDARDS DESIGN-CIVIL GENERAL

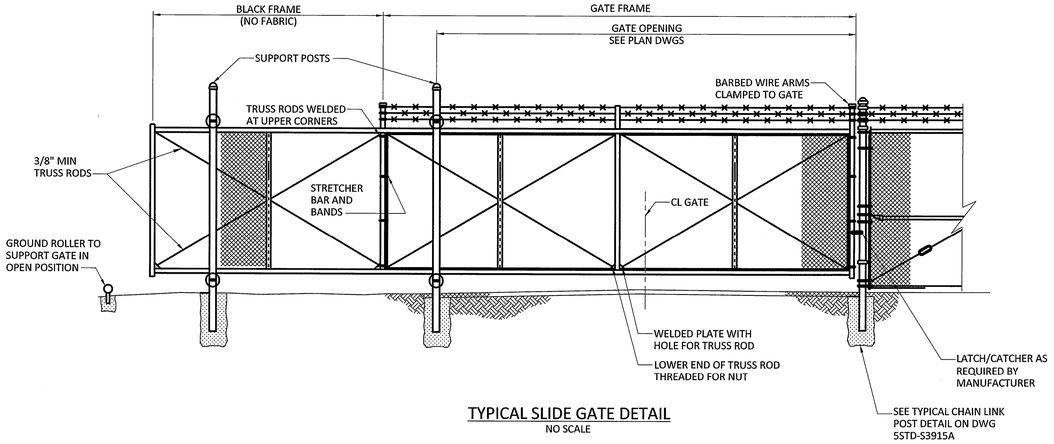
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

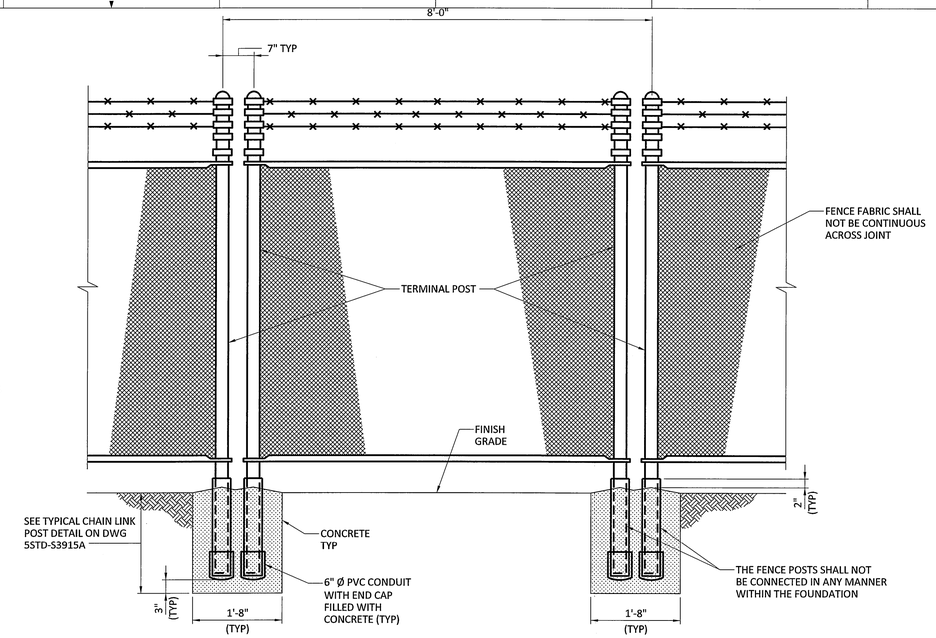
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
X	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5STD-S3915A

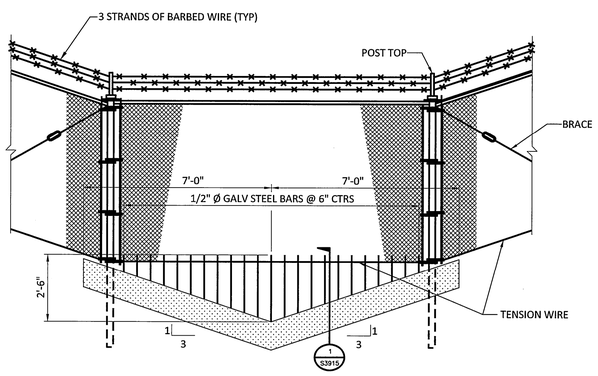
ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



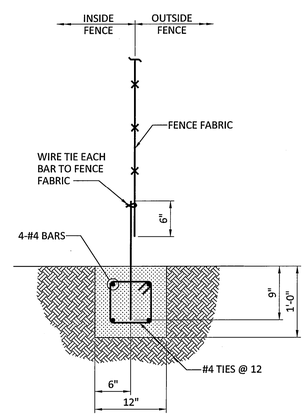
TYPICAL SLIDE GATE DETAIL
NO SCALE



TYPICAL FENCE ISOLATION JOINT
NO SCALE



TYPICAL DITCH CROSSING DETAIL
NO SCALE



SECTION 1
NO SCALE
SEE THIS DWG

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING 5STD-S3201 FOR LEGENDS & SYMBOL KEYS.

DESIGN NOTES:

1. SEE DRAWING S3000 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. FOR FENCE GROUNDING DETAILS AND NOTES, SEE DRAWING E2550.
3. WIRE TIES, RAILS, POSTS AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN LINK FABRIC SHALL BE ON THE SIDE OPPOSITE OF THE SECURE SIDE.
4. SEE S3200 SERIES DRAWINGS FOR FENCING LAYOUT.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STD-S3201 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

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Corporate Headquarters:
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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.21950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
YARD
FENCING
DETAILS AND SECTIONS

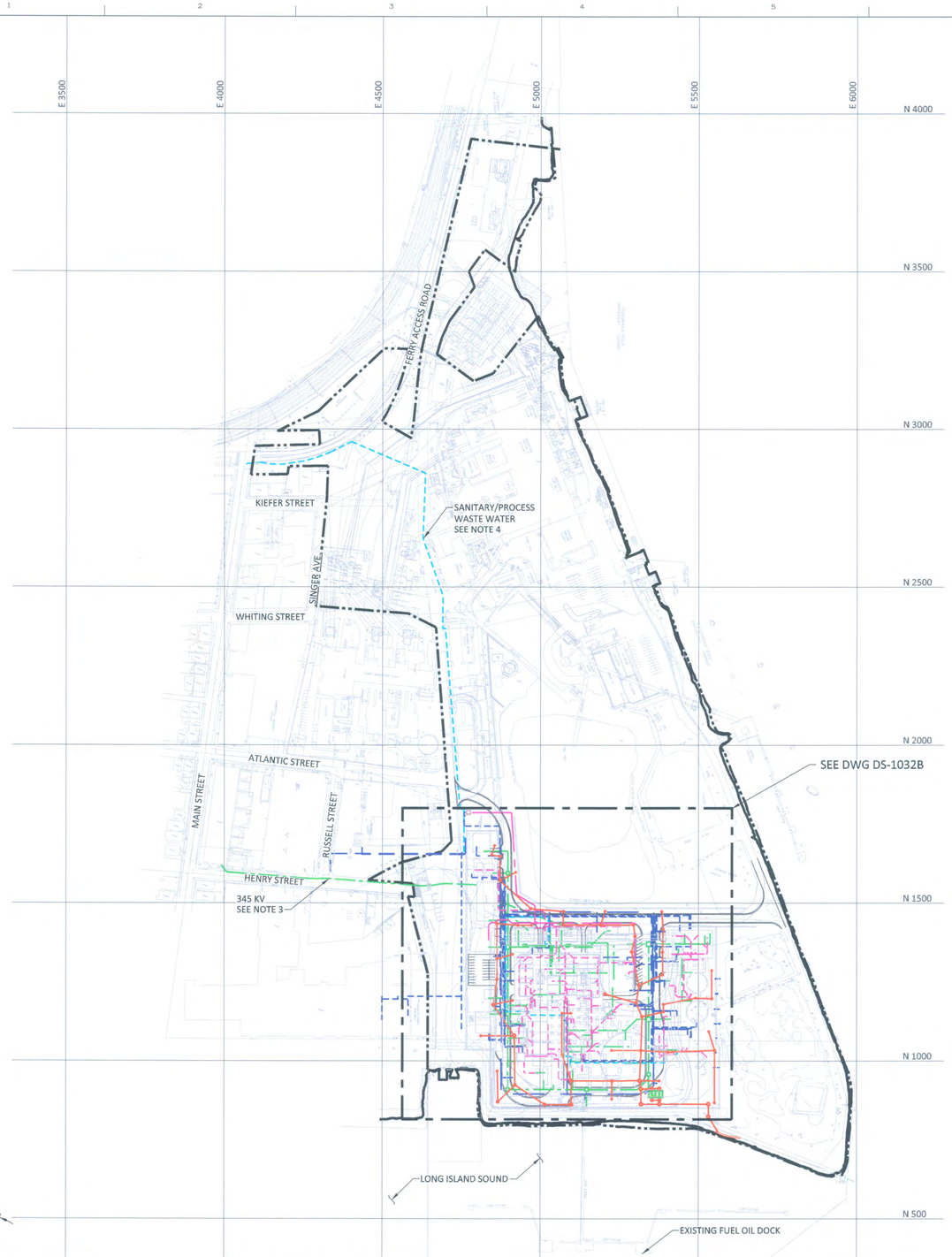
STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION
PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5STD-S3915B

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



LEGENDS/SYMBOL KEYS:

- SANITARY/PROCESS WASTE WATER
- OILY SPILL PREVENTION
- FIRE PROTECTION
- PRESSURE PIPE (INCLUDES SERVICE WATER)
- DUCT BANK
- STORM PIPING
- COASTAL JURISDICTION LINE
- PROPERTY LINE ALONG MEAN HIGH WATER

DESIGN NOTES:

1. FOR CONSTRUCTION UTILITIES, SEE DRAWINGS DS-1041A & B.
2. FOR STORMWATER PIPES, SEE DRAWING 5STF-S3000 SERIES.
3. FOR 345 KV DUCTBANK DETAILS, SEE DRAWING DS-1045A.
4. THE SANITARY/PROCESS WASTE WATER PIPE ROUTE AND DETAILS WILL BE FINALIZED WITH DISCUSSIONS WITH UTILITY OWNER.

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

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REVISED FOR SANITARY/PROCESS WASTEWATER SUMP CHANGES

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
3	10/26/16	C.01950	PERMIT ISSUE	JDL	BMH	AJF	X	GLG	MED
2	09/14/16	C.01950	PERMIT ISSUE	RJW	CAF	BMH	X	GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	CAF	BMH	X	GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	JJD	BMH	X	LWJ	MED

REVISION

BRIDGEPORT 05
PLANT LAYOUT
GENERAL YARD
UTILITY PLAN

ARRANGEMENT DESIGN-CIVIL GENERAL

200' 100' 0 200' 400'
1"=200'

Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

PROJECT ENGINEERING DIVISION
PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	CHRIS FINN	BLIA HER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
X	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-DS-1032A

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

3	ISSUED FOR PERMITTING
2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

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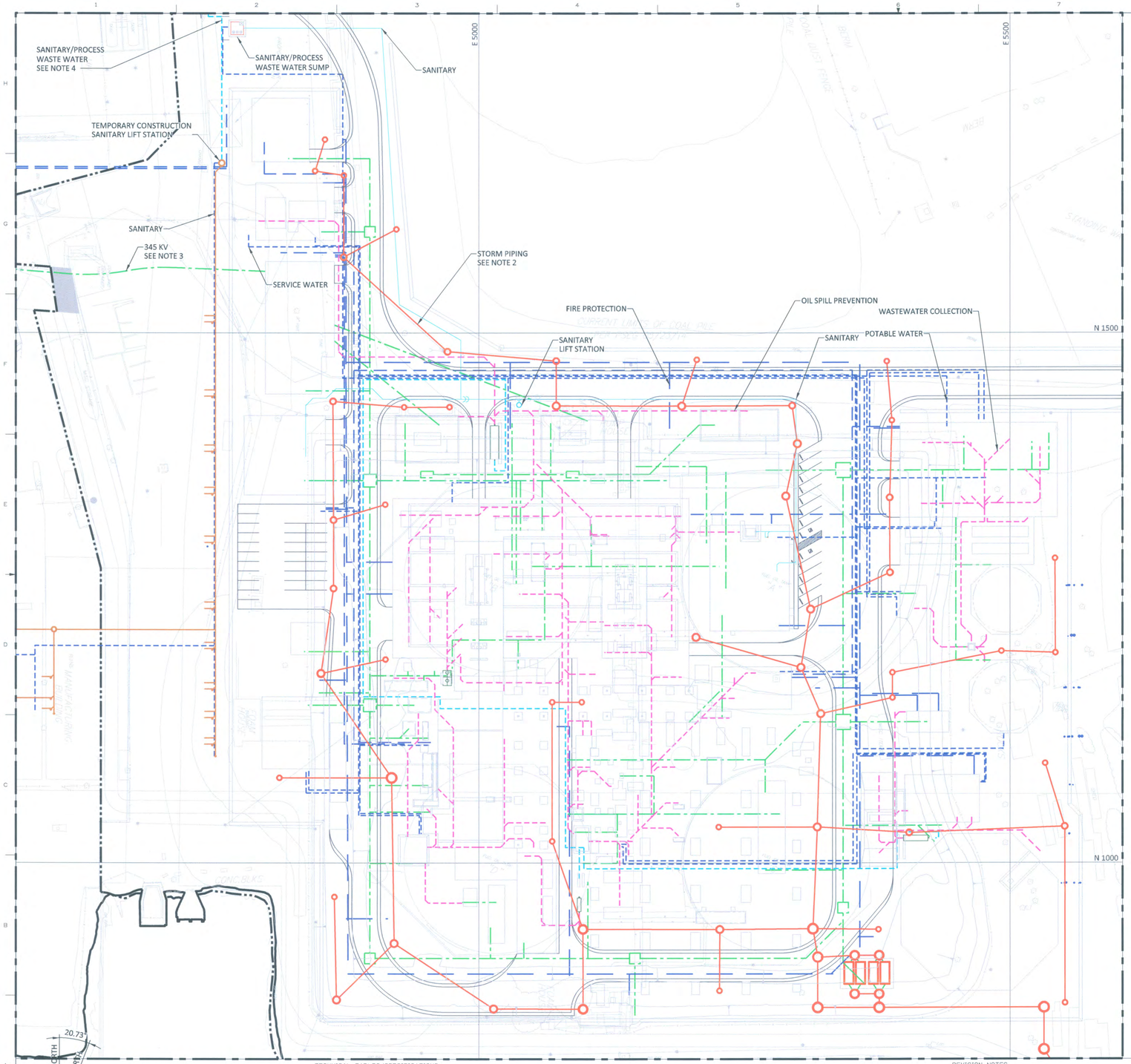
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 3



LEGENDS/SYMBOL KEYS:

- SANITARY/PROCESS WASTE WATER
- OILY SPILL PREVENTION
- FIRE PROTECTION
- PRESSURE PIPE (INCLUDES SERVICE WATER)
- DUCT BANK
- STORM PIPING
- COASTAL JURISDICTION LINE
- PROPERTY LINE ALONG MEAN HIGH WATER

DESIGN NOTES:

1. FOR CONSTRUCTION UTILITIES, SEE DRAWINGS DS-1041A & B.
2. FOR STORMWATER PIPES, SEE DRAWING 5STF-53000 SERIES.
3. FOR 345 KV DUCTBANK DETAILS, SEE DRAWING DS-1045A.
4. THE SANITARY/PROCESS WASTE WATER PIPE ROUTE AND DETAILS WILL BE FINALIZED WITH DISCUSSIONS WITH UTILITY OWNER.

REVISED FOR SANITARY/PROCESS WASTEWATER SUMP CHANGES

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
3	10/26/16	C.01950	PERMIT ISSUE	JDL	BMH	AJF		GLG	MED
2	09/14/16	C.01950	PERMIT ISSUE	RJW	CAF	BMH		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	CAF	BMH		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	JJD	BMH		LWJ	MED

REVISION

BRIDGEPORT 05
PLANT LAYOUT
GENERAL YARD
UTILITY PLAN

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

ISSUED FOR PERMITTING

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50' 25' 0 50' 100'
1"=50'

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

PROJECT ENGINEERING DIVISION
PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	CHRIS FINN	BLIA HER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-DS-1032B

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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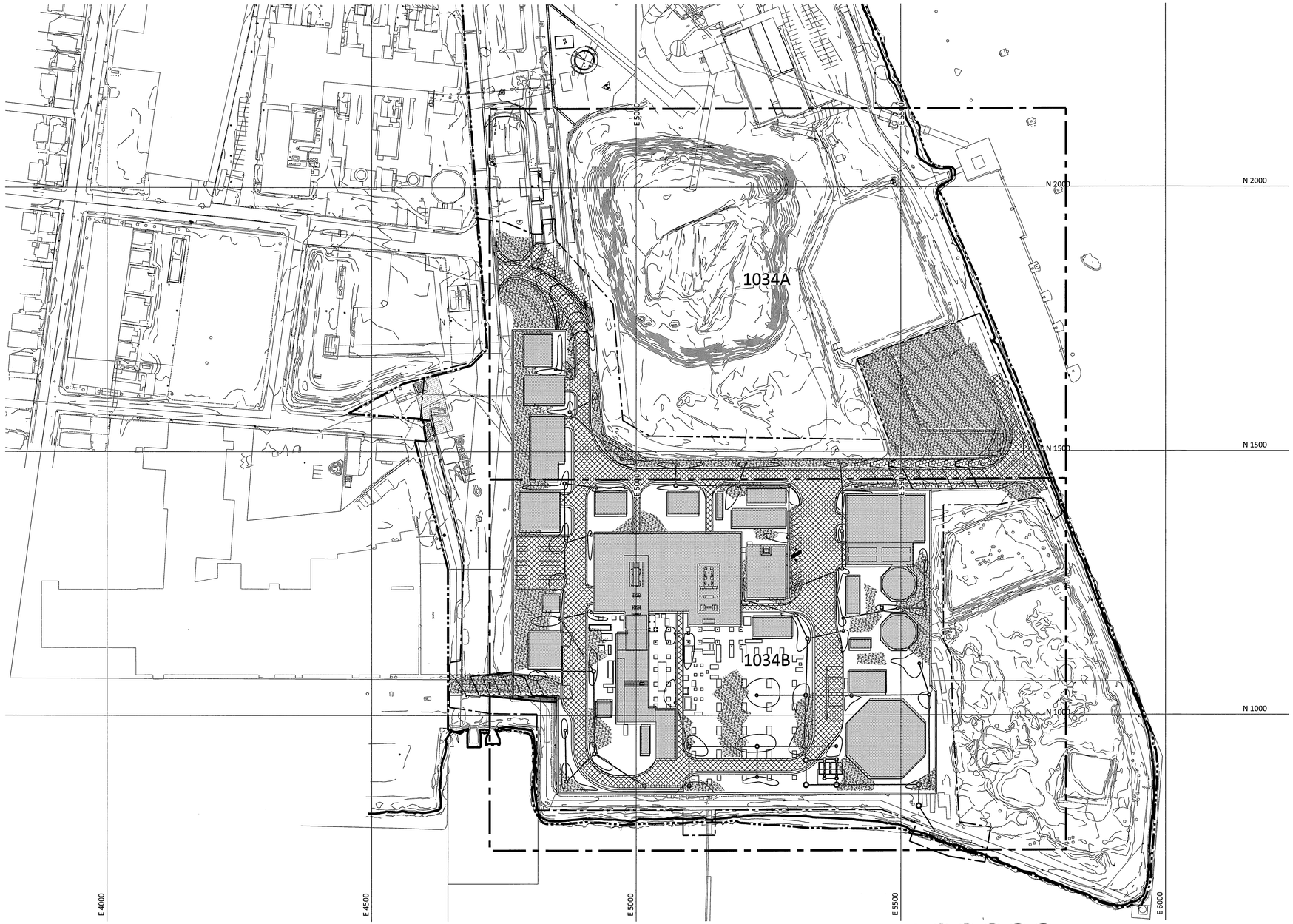
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 3



DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

40' 20' 0 40' 80'
1"=40'

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

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1	ISSUED FOR REVIEW
Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

- CB-XX — AREA INLET
- MH-XX — STORMWATER MANHOLE
- 8 — EXISTING CONTOUR
- MATCH LINE
- PROPERTY LINE ALONG MEAN HIGH WATER
- COASTAL JURISDICTION LINE
- ASPHALT SURFACING
- AGGREGATE SURFACING
- REINFORCED CONCRETE
- GRASS
- RIPRAP

DESIGN NOTES:

REFERENCES:

ISSUED FOR PERMITTING

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2	Ø9/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	Ø9/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF		GLG	MED
Ø	Ø8/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
DRAINAGE PLAN – AREA 1 & 2 KEY PLAN
PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

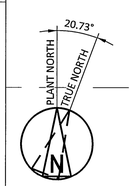
PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-DS-1034

ANSI D SIZE
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____
SPONSOR: T. MURPHY
VERSION: 2

MATCHLINE N 1443.00 - FOR CONTINUATION SEE DS-1034B



40' 20' 0 40' 80'

1"=40'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

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SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1034 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. C-INDICATES WEIGHTED RUNOFF COEFFICIENT. TOC INDICATES TIME OF CONCENTRATION. ABBREVIATIONS APPLY TO THIS DRAWING ONLY, UNLESS OTHERWISE SPECIFIED.

REFERENCES:

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.01950	PERMIT ISSUE	TAR	BMH	EAH	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
DRAINAGE PLAN - AREA 1

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
TIM ROBINSON	BLIA HER	EMILY HOVDA
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1034A

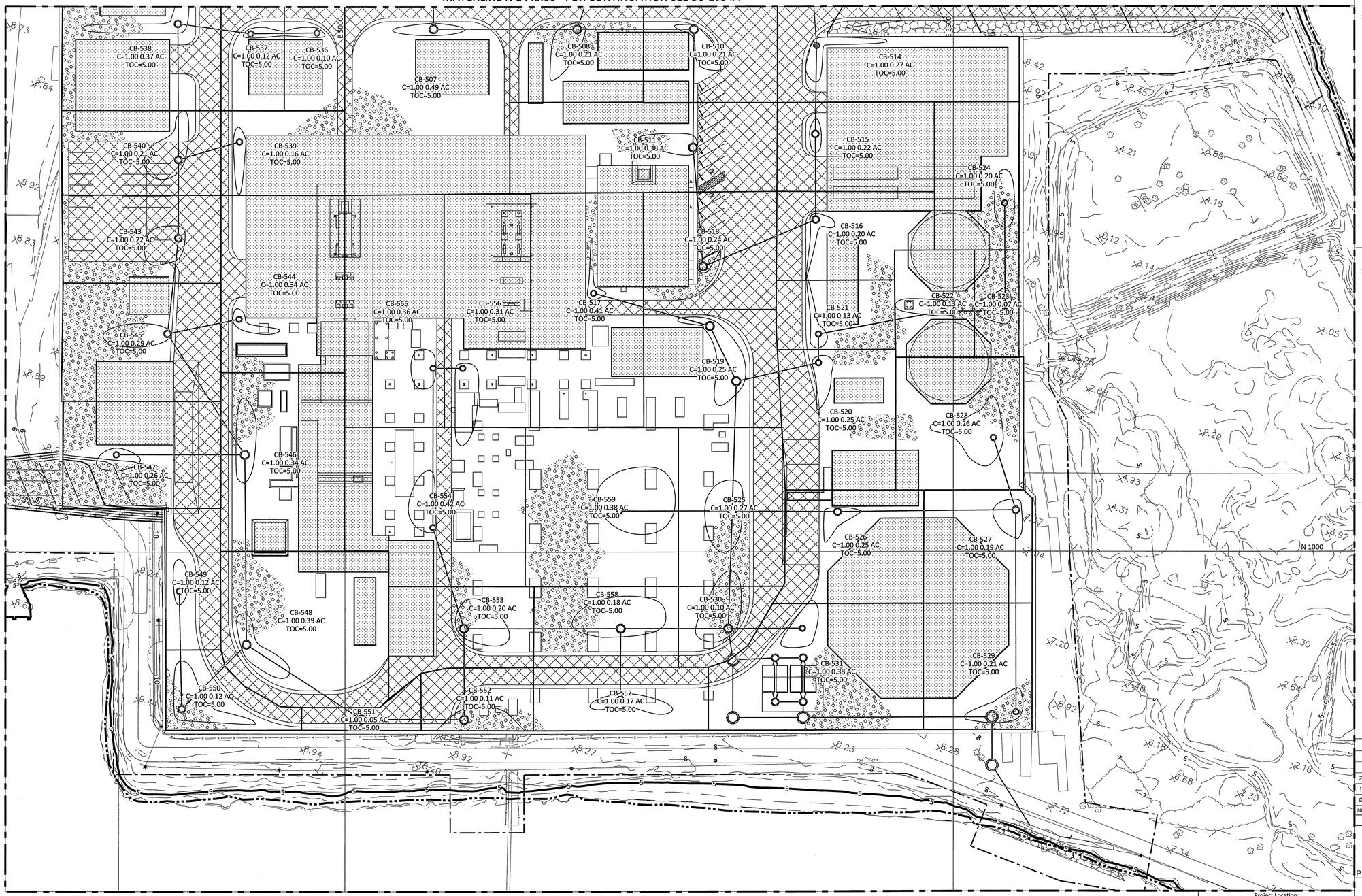
ANSI D SIZE

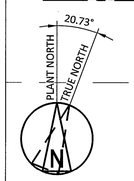
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE N 1443.00 - FOR CONTINUATION SEE DS-1034A





40' 20' 0 40' 80'

1"=40'

TECHNICAL TABLES/SPECIFICATIONS:

1. SEE DRAWING 5STF-S3000 FOR TECHNICAL TABLES & SPECIFICATIONS.

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
Ø	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1034 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. C-INDICATES WEIGHTED RUNOFF COEFFICIENT. TOC INDICATES TIME OF CONCENTRATION. ABBREVIATIONS APPLY TO THIS DRAWING ONLY, UNLESS OTHERWISE SPECIFIED.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	Ø9/14/16	C.Ø1950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	Ø9/Ø6/16	C.Ø1950	ISSUED FOR REVIEW	RJW	BMH	CAF		GLG	MED
Ø	Ø8/25/16	C.Ø1950	PERMIT ISSUE	TAR	BMH	EAH		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
DRAINAGE PLAN - AREA 2

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.

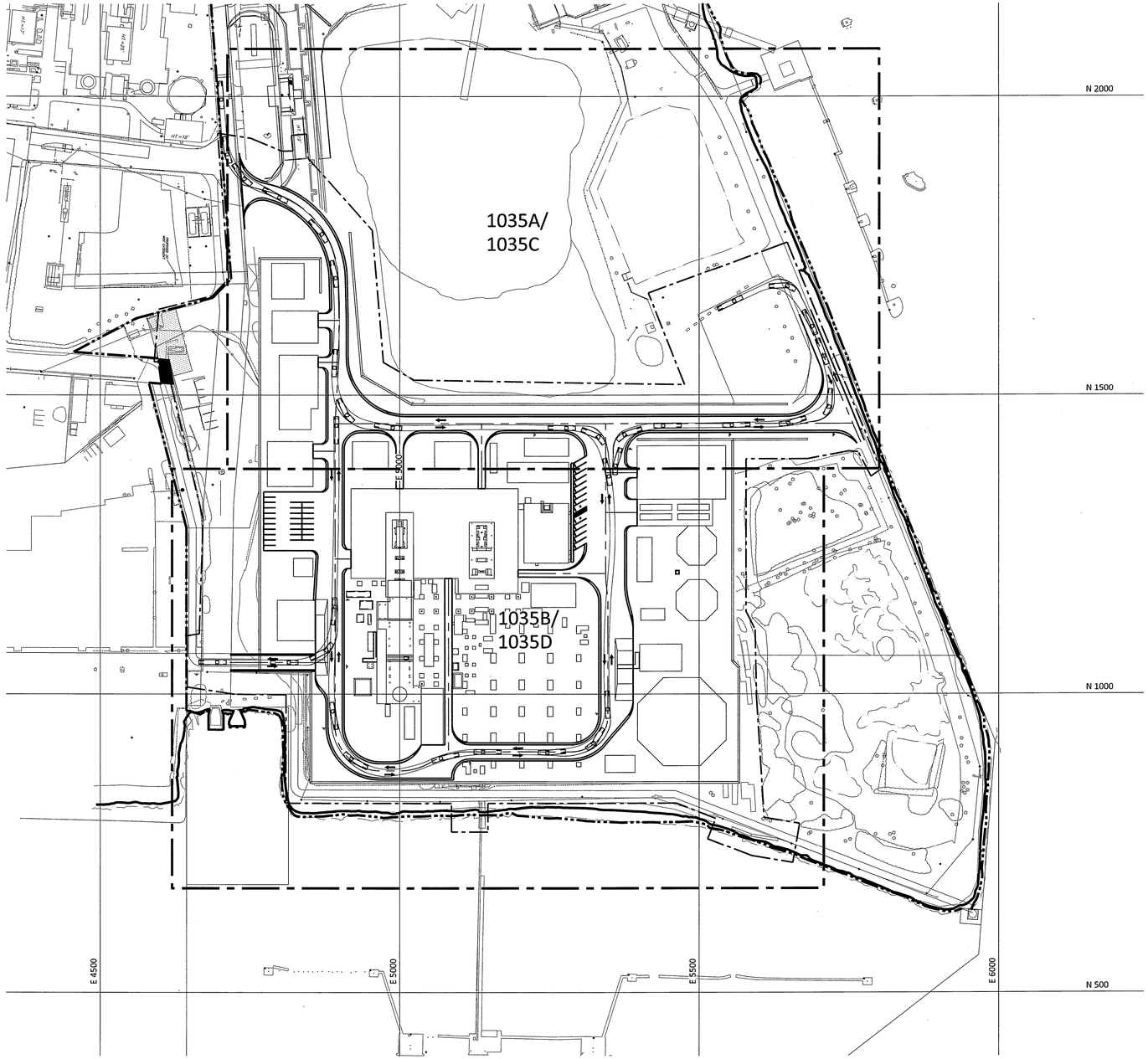
191547-DS-1034B

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

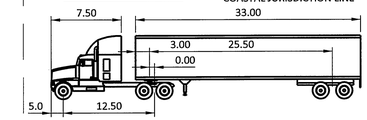
SPONSOR: T. MURPHY

VERSION: 2



LEGENDS/SYMBOL KEYS:

- TRAFFIC DIRECTION
- SIGN
- PROPERTY LINE
- MATCH LINE
- LIMITS OF DISTURBANCE
- COASTAL JURISDICTION LINE



WB-40 FEET

TRACTOR WIDTH	: 8.00	LOCK TO LOCK TIME	: 6.0
TRAILER WIDTH	: 8.00	STEERING ANGLE	: 20.3
TRACTOR TRACK	: 8.00	ARTICULATING ANGLE	: 70.0
TRAILER TRACK	: 8.00		

DESIGN VEHICLE DETAIL 1

NO SCALE

DESIGN NOTES:

1. ROADS ARE DESIGNED FOR HS-20 AXLE LOADING AND WB-40 DIMENSIONING. SEE DETAIL 1, THIS DRAWING.
2. SIGNAGE SHALL BE INSTALLED AND CONFORM TO THE REQUIREMENTS SPECIFIED IN THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
3. STOP SIGN SHALL BE R1-1, UNLESS NOTED OTHERWISE. SPEED LIMIT SIGN SHALL BE R2-1, UNLESS NOTED OTHERWISE.
4. VERTICAL CLEARANCE SIGN SHALL BE W12-2, UNLESS NOTED OTHERWISE.
5. SIGN SHALL BE R5-2A ("NO TRUCKS") WITH SUPPLEMENTAL GROUPING LEGEND "40 FEET IN LENGTH BEYOND THIS POINT."
6. CONSTRUCTION MAY ADJUST SIGNS AS REQUIRED.

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

100' 50' 0 100' 200'

1"=100'

Project Location:
Fairfield County, CT

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Corporate Headquarters:
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2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	BMH	TAT		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
TRAFFIC OPERATIONS KEY PLAN

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-DS-1035

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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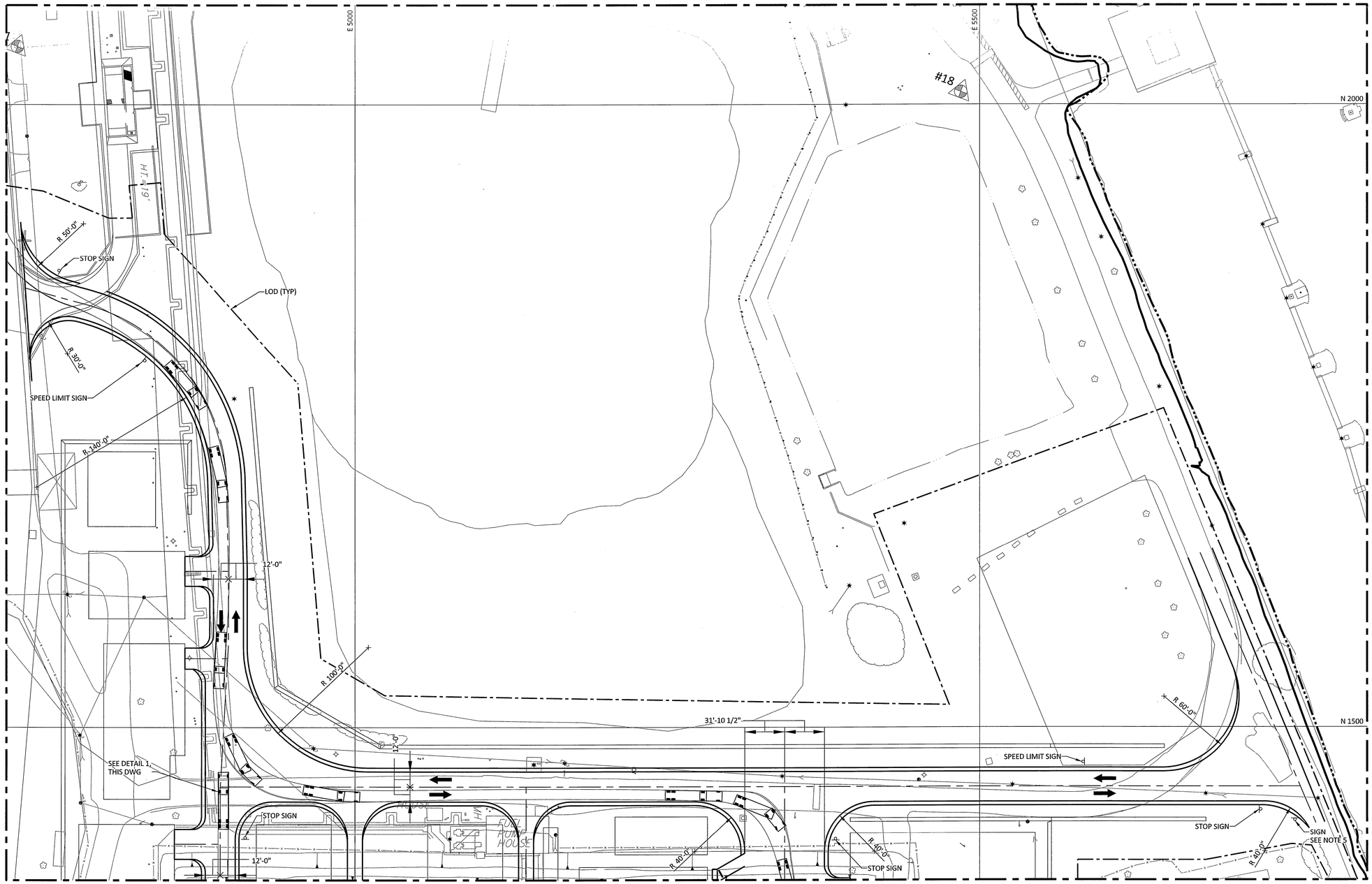
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 2



MATCHLINE N 1377.00 - FOR CONTINUATION SEE DS-1035B

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1035 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. ROADS ARE DESIGNED FOR HS-20 AXLE LOADING AND WB-40 DIMENSIONING. SEE DETAIL 1, THIS DRAWING.
2. SIGNAGE SHALL BE INSTALLED AND CONFORM TO THE REQUIREMENTS SPECIFIED IN THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
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4. VERTICAL CLEARANCE SIGN SHALL BE W12-2, UNLESS NOTED OTHERWISE.
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6. CONSTRUCTION MAY ADJUST SIGNS AS REQUIRED.

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.01950	PERMIT ISSUE	RJW	BMH	TAT		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
TRAFFIC OPERATIONS

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	TERRY THOMAS
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO. 191547-DS-1035A

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

40' 20' 0 40' 80'

1"=40'

PLANT NORTH 20.73° TRUE NORTH N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

0 ISSUED FOR PERMITTING

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SIGNED MARK A VANCE

DATE 08/25/16 REG NO. 27447

ANSI D SIZE

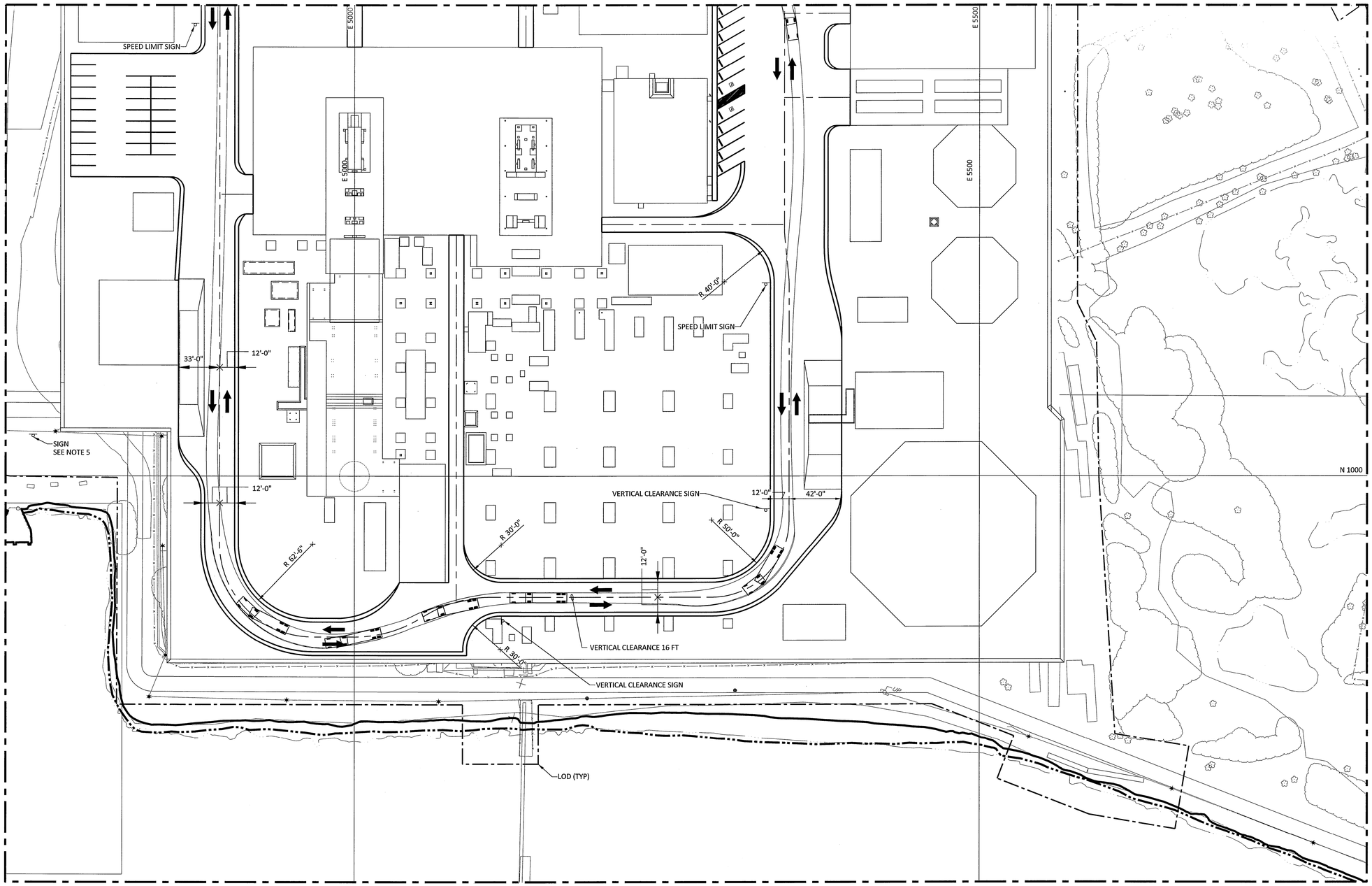
CONT. ____ MECH. ____ SPON. ____

ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE N 1377.00 - FOR CONTINUATION SEE DS-1035A



LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1035 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. ROADS ARE DESIGNED FOR HS-20 AXLE LOADING AND WB-40 DIMENSIONING. SEE DETAIL 1, THIS DRAWING.
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6. CONSTRUCTION MAY ADJUST SIGNS AS REQUIRED.

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	BMH	TAT		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
TRAFFIC OPERATIONS

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

40' 20' 0 40' 80'

1"=40'

PLANT NORTH · TRUE NORTH · 20.73° · N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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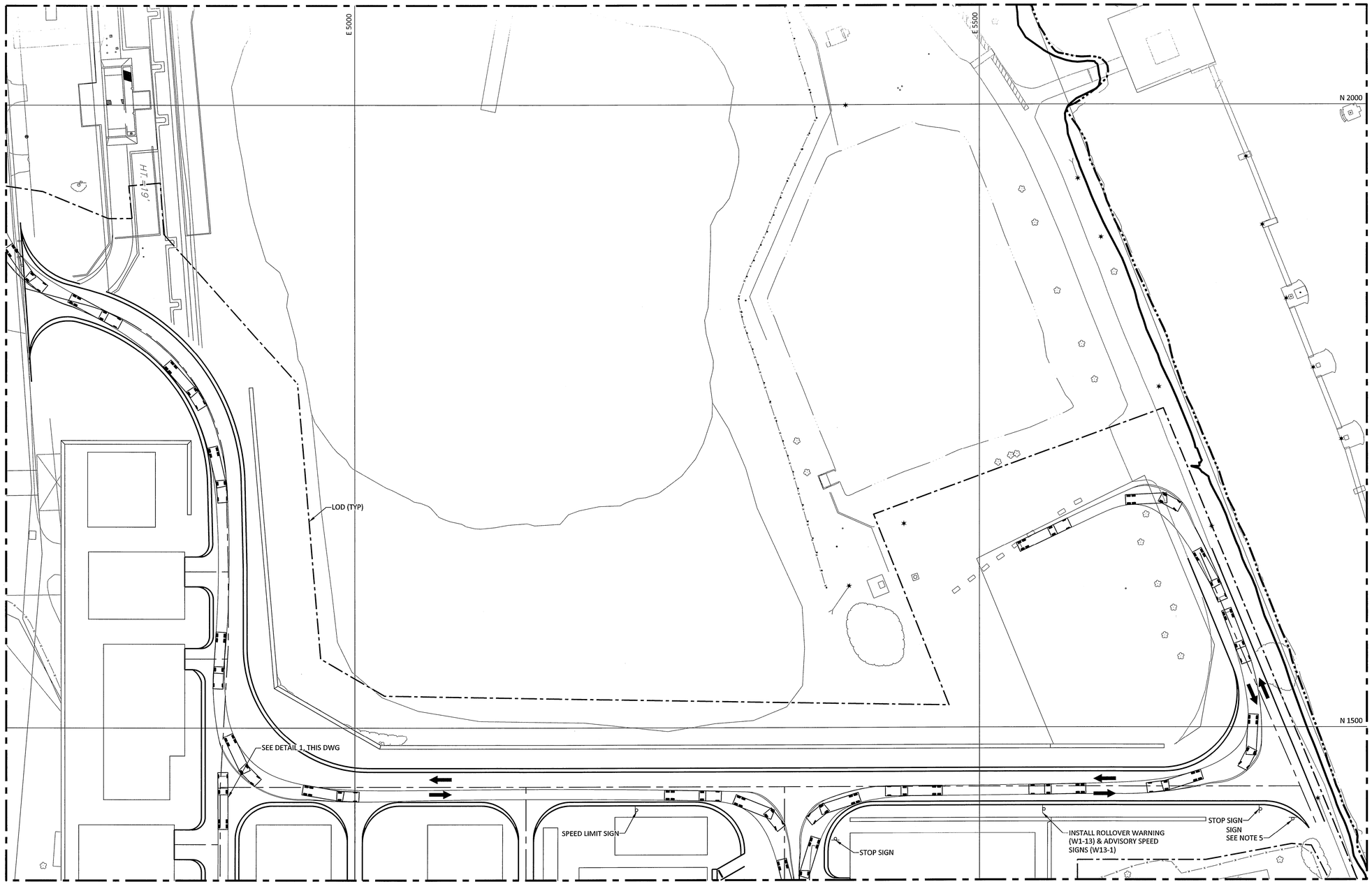
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO. 191547-DS-1035B

ANSI D SIZE · CONT. · MECH. · SPON. · ELEC. · CIVIL · OTHER · SPONSOR: T. MURPHY · VERSION: 2



MATCHLINE N 1377.00 - FOR CONTINUATION SEE DS-1035D

LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1035 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. ROADS ARE DESIGNED FOR HS-20 AXLE LOADING AND WB-40 DIMENSIONING. SEE DETAIL 1, THIS DRAWING.
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6. CONSTRUCTION MAY ADJUST SIGNS AS REQUIRED.

REFERENCES:

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.Ø1950	PERMIT ISSUE	RJW	BMH	TAT		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION TRAFFIC OPERATIONS

PARTIAL SITE PLAN DESING-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

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Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

40' 20' 0 40' 80'
1"=40'

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	TERRY THOMAS
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO. 191547-DS-1035C

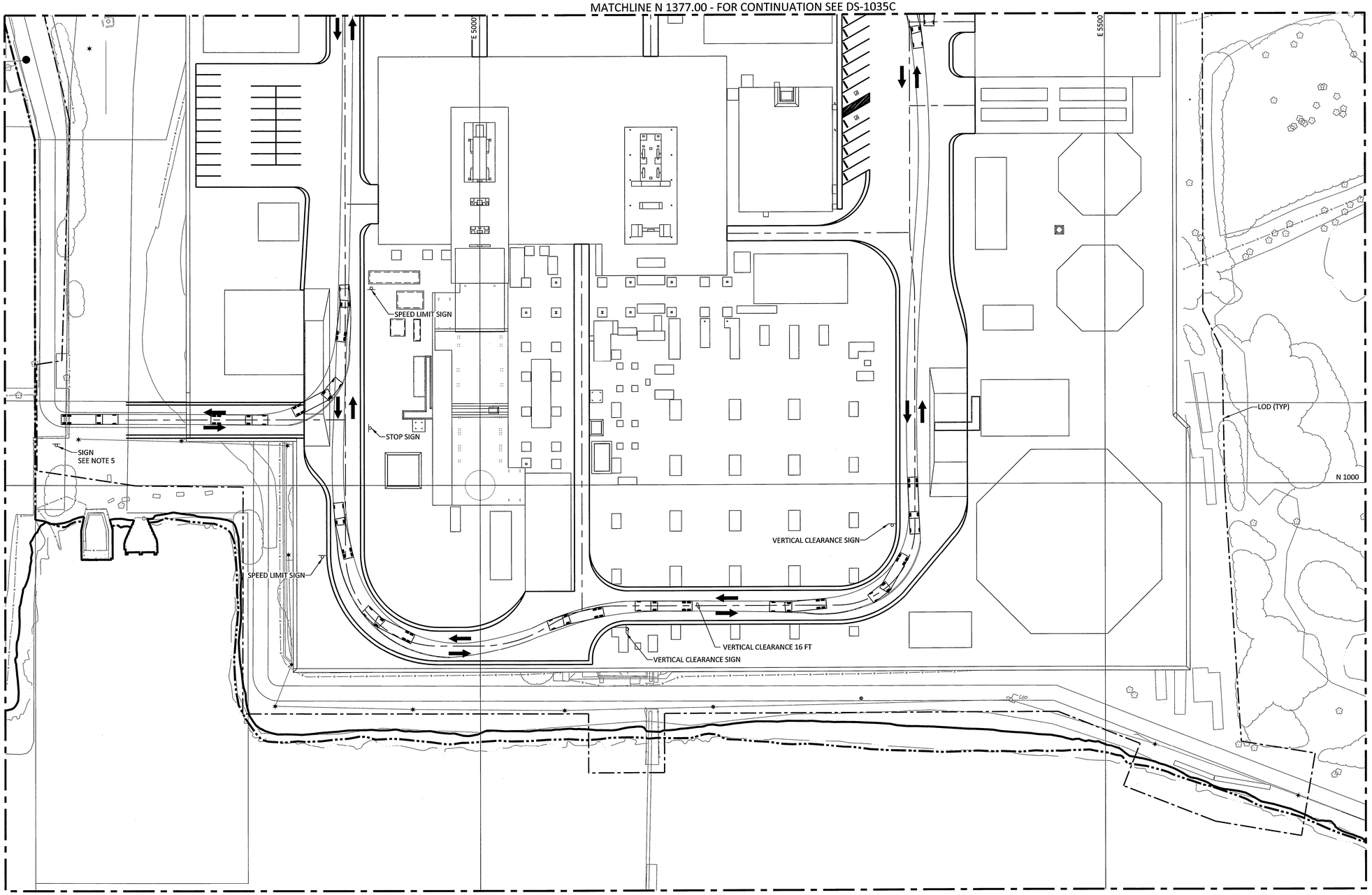
ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE N 1377.00 - FOR CONTINUATION SEE DS-1035C



LEGENDS/SYMBOL KEYS:

1. SEE DRAWING DS-1035 FOR KEY PLAN, NOTES AND LEGEND.

DESIGN NOTES:

1. ROADS ARE DESIGNED FOR HS-20 AXLE LOADING AND WB-40 DIMENSIONING. SEE DETAIL 1, THIS DRAWING.
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6. CONSTRUCTION MAY ADJUST SIGNS AS REQUIRED.

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF	X	GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	MGP	BMH	CAF	X	GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	RJW	BMH	TAT	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION TRAFFIC OPERATIONS

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO.
191547-DS-1035D

Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

40' 20' 0 40' 80'
1"=40'

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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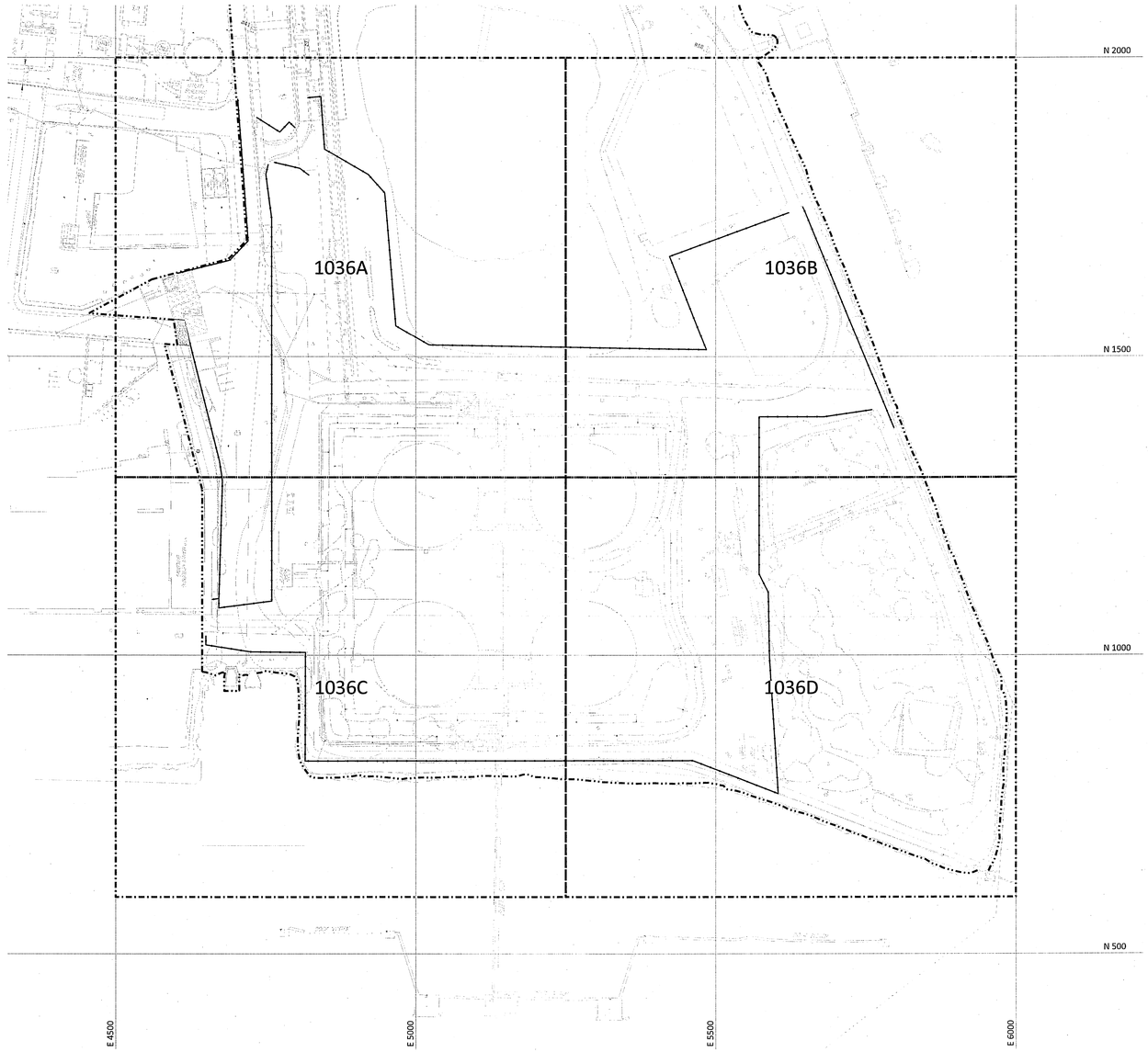
SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 2



PHASE 1 LEGEND

SILT FENCE
PROPERTY LINE

CONSTRUCTION PHASE 1 SEQUENCE

1. SITE MOBILIZATION:
   - TANKS AND TANK FOUNDATIONS REMOVED
   - CONTAMINATED SOIL AREAS REMEDIATED
   - SITE AT NOMINAL GRADE AS SHOWN ON THE DPI AFTER REMEDIATION
2. MOBILIZATION.
3. INSTALL EROSION AND SEDIMENT CONTROLS PER THE SESC DRAWINGS. EAST ROUTE TO LIGHT HOUSE TO REMAIN OPEN.
4. REMOVE TOP SOIL AND ORGANICS FROM BERMS AND SITE.
5. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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100' 50' 0 100' 200'
1"=100'

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:
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SIGNED MARK A. VANCE
DATE 27447 REG NO. 8/25/2016

Project Location:
Fairfield County, CT

BLACK & VEATCH
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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	8/25/2016	C.81950	PERMIT ISSUE	CDC	GLG	RFG	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 1 KEY PLAN
ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
X	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1036

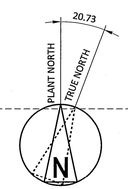
ANSI D SIZE
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____
SPONSOR: T. MURPHY
VERSION: 0

PHASE 1 LEGEND

1. SEE DRAWING DS-1036 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 1 SEQUENCE

1. SITE MOBILIZATION:
   - TANKS AND TANK FOUNDATIONS REMOVED
   - CONTAMINATED SOIL AREAS REMEDIATED
   - SITE AT NOMINAL GRADE AS SHOWN ON THE DPI AFTER REMEDIATION
2. MOBILIZATION.
3. INSTALL EROSION AND SEDIMENT CONTROLS PER THE SESC DRAWINGS. EAST ROUTE TO LIGHT HOUSE TO REMAIN OPEN.
4. REMOVE TOP SOIL AND ORGANICS FROM BERMS AND SITE.
5. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

Ø ISSUED FOR PERMITTING

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I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED MARK A. VANCE

DATE 8/25/2016 REG NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	8/25/2016	C.01950	PERMIT ISSUE	CDC	GLG	RFG	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 1

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1036A

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

PHASE 1 LEGEND

1. SEE DRAWING DS-1036 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 1 SEQUENCE

1. SITE MOBILIZATION:
   - TANKS AND TANK FOUNDATIONS REMOVED
   - CONTAMINATED SOIL AREAS REMEDIATED
   - SITE AT NOMINAL GRADE AS SHOWN ON THE DPI AFTER REMEDIATION
2. MOBILIZATION.
3. INSTALL EROSION AND SEDIMENT CONTROLS PER THE SESC DRAWINGS. EAST ROUTE TO LIGHT HOUSE TO REMAIN OPEN.
4. REMOVE TOP SOIL AND ORGANICS FROM BERMS AND SITE.
5. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

20.73

PLANT NORTH

TRUE NORTH

N

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 1

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

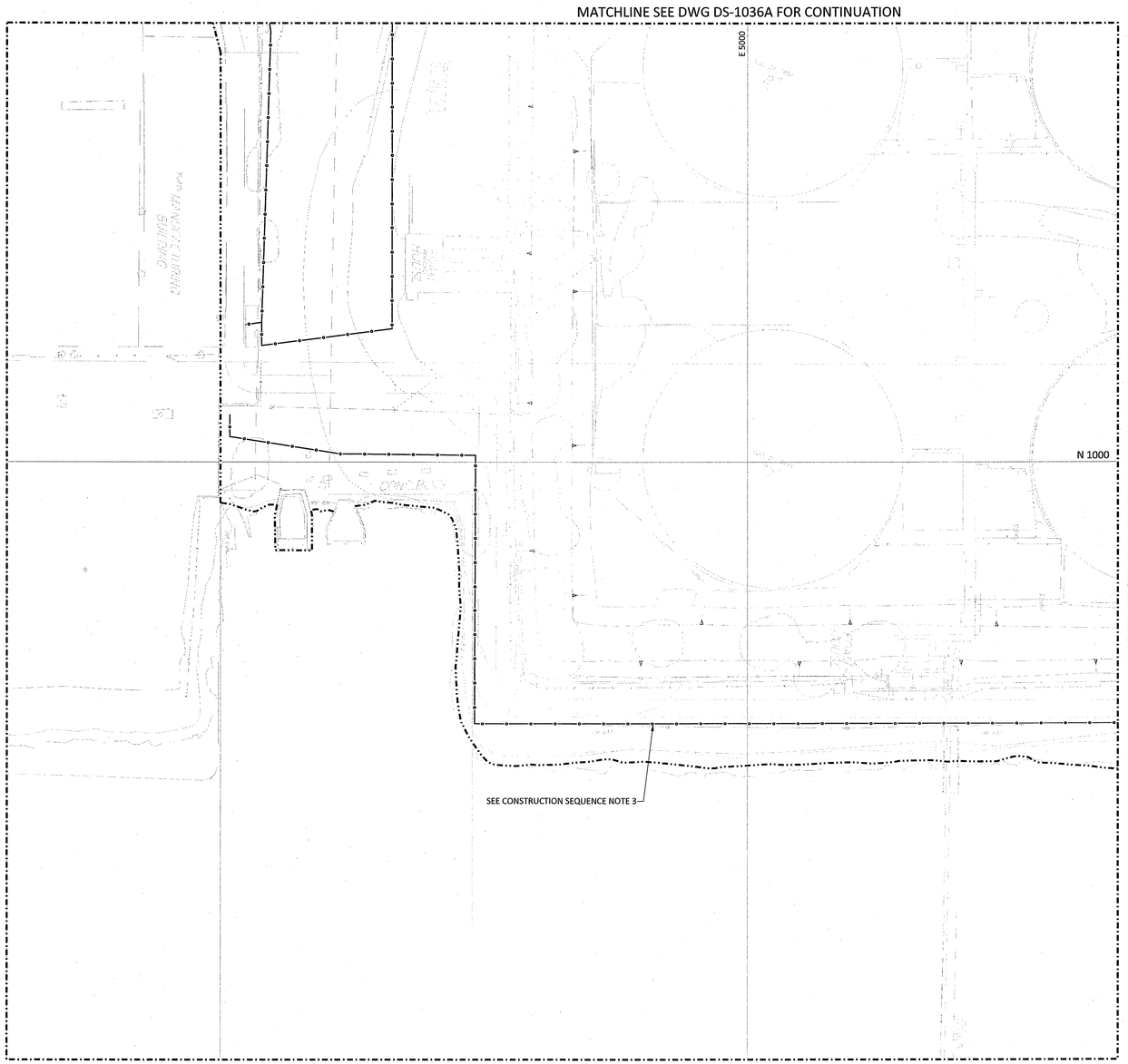
VENDOR NO.
191547-DS-1036B

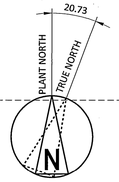
ANSI D SIZE

CONT. ELEC. HECH. CIVIL SPON. OTHER

SPONSOR: T. MURPHY

VERSION: 0





PHASE 1 LEGEND

1. SEE DRAWING DS-1036 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 1 SEQUENCE

1. SITE MOBILIZATION:
   - TANKS AND TANK FOUNDATIONS REMOVED
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   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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0	8/25/2016	C.01950	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 1

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1036C

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

PAPER: D SIZE

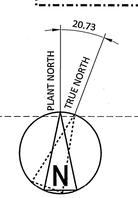
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE SEE DWG DS-1036B FOR CONTINUATION

MATCHLINE SEE DWG DS-1036C FOR CONTINUATION



PHASE 1 LEGEND

1. SEE DRAWING DS-1036 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 1 SEQUENCE

1. SITE MOBILIZATION:
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   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

NO.	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	8/25/2016	C.01950	PERMIT ISSUE	CDC	GLG	RFG	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 1
ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
X	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1036D

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'
1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
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TECHNICAL TABLES/SPECIFICATIONS:
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REVISION NOTES:
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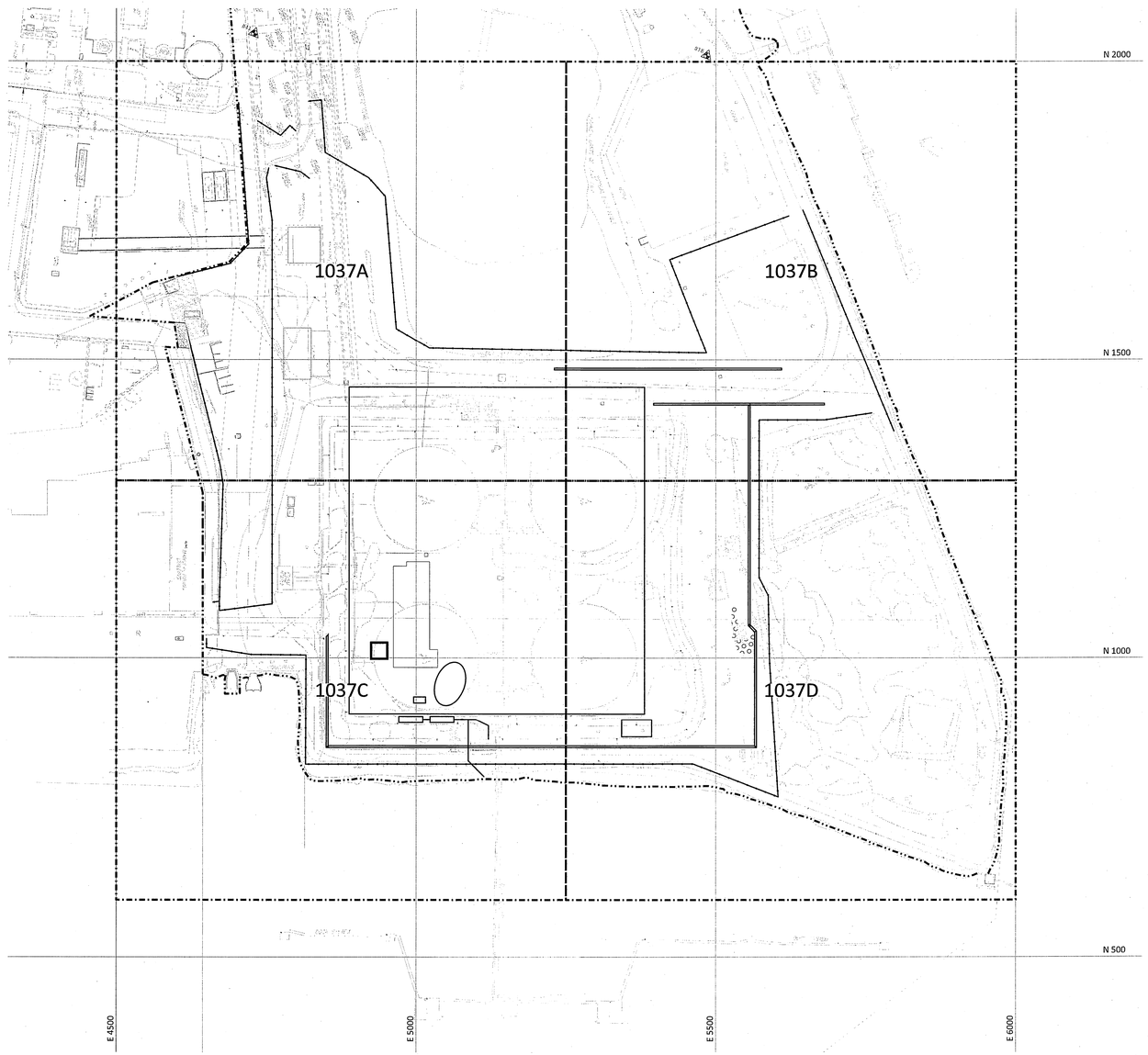
SIGNED MARK A. VANCE
DATE 8/25/16 REG.NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY
VERSION: 0



PHASE 2 LEGEND

BACKFILL ELEVATIONS

- EXISTING EL +9.0 FT
- EL +12.0 FT
- SILT FENCE
- PROPERTY LINE

CONSTRUCTION PHASE 2 SEQUENCE

1. DRIVE DUCT BANK PILES.
2. START SHEET PILING IN SOUTHEAST CORNER OF SITE PROGRESSING EAST TO WEST.
3. BACKFILL STG ISLAND FIRST, THEN BACK FILL CTG ISLAND.
4. START SHEET PILE INSTALLATION IN SOUTHEAST CORNER OF SITE PROGRESSING SOUTH TO NORTH.
5. START DUCT BANK INSTALLATION.
6. INSTALL ELECTRICAL MANHOLES.
7. START BLOWDOWN SUMP CONSTRUCTION.
8. START STG AND CTG PILING.
9. INSTALL MTD DISCHARGE PIPING AND OUTFALL STRUCTURE.
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NO.	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 2 KEY PLAN

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

STATE OF CONNECTICUT — MARK A. VANCE — 27447 — LICENSED PROFESSIONAL ENGINEER

100' 50' 0 100' 200'
1"=100'

ISSUED FOR PERMITTING

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Project Location:
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DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1037

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

PHASE 2 LEGEND

1. SEE DRAWING DS-1037 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 2 SEQUENCE

1. DRIVE DUCT BANK PILES.
2. START SHEET PILING IN SOUTHEAST CORNER OF SITE PROGRESSING EAST TO WEST.
3. BACKFILL STG ISLAND FIRST, THEN BACK FILL CTG ISLAND.
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STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED PROFESSIONAL ENGINEER

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 2
ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1037A

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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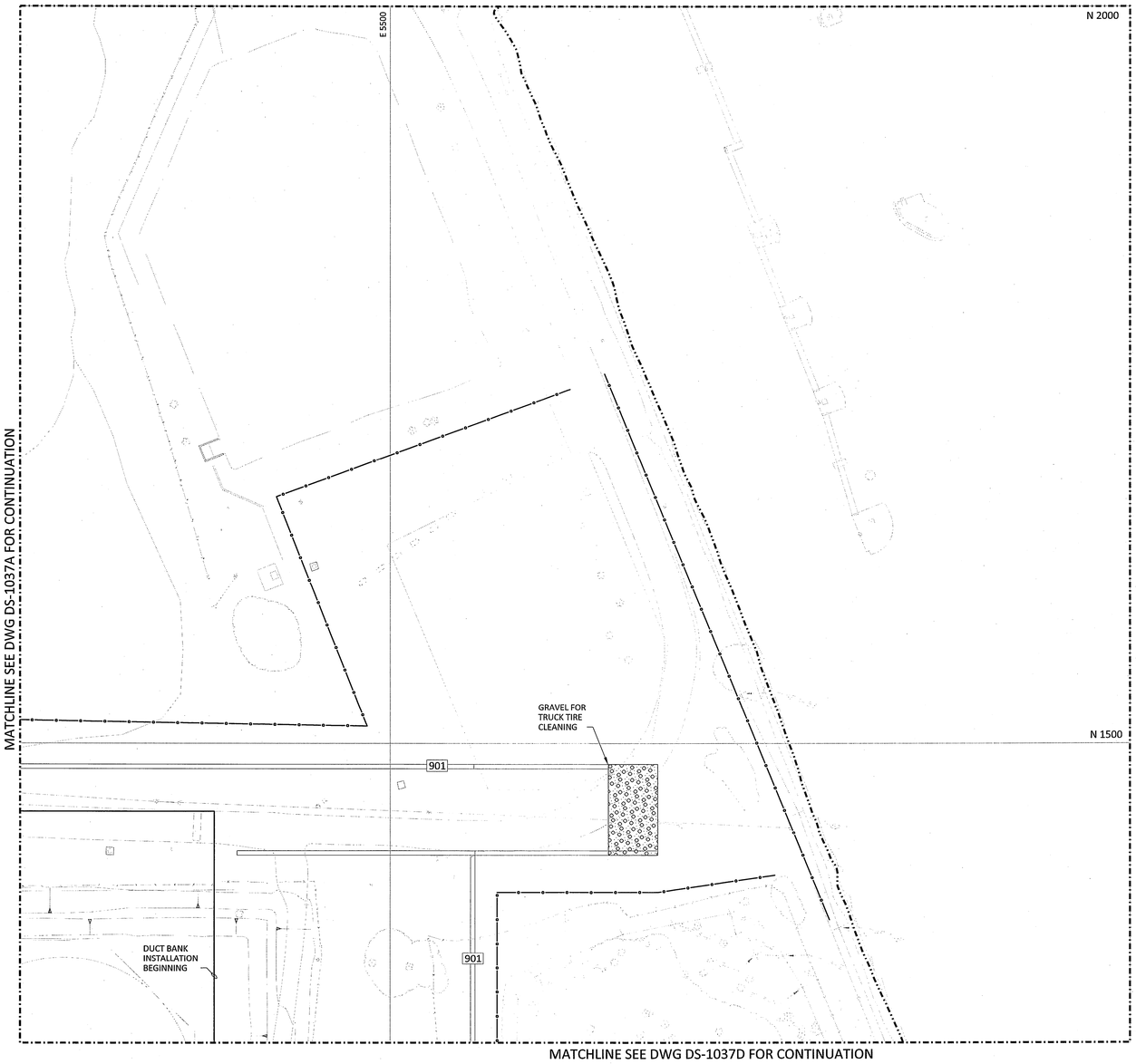
SIGNED MARK A. VANCE
DATE _____ REG NO. 27447

D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
901	RETAINING WALL

PHASE 2 LEGEND

1. SEE DRAWING DS-1037 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 2 SEQUENCE

1. DRIVE DUCT BANK PILES.
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STATE OF CONNECTICUT
MARK A. VANCE
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 2

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1037B

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

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DATE 8/25/2016 REG NO. 27447

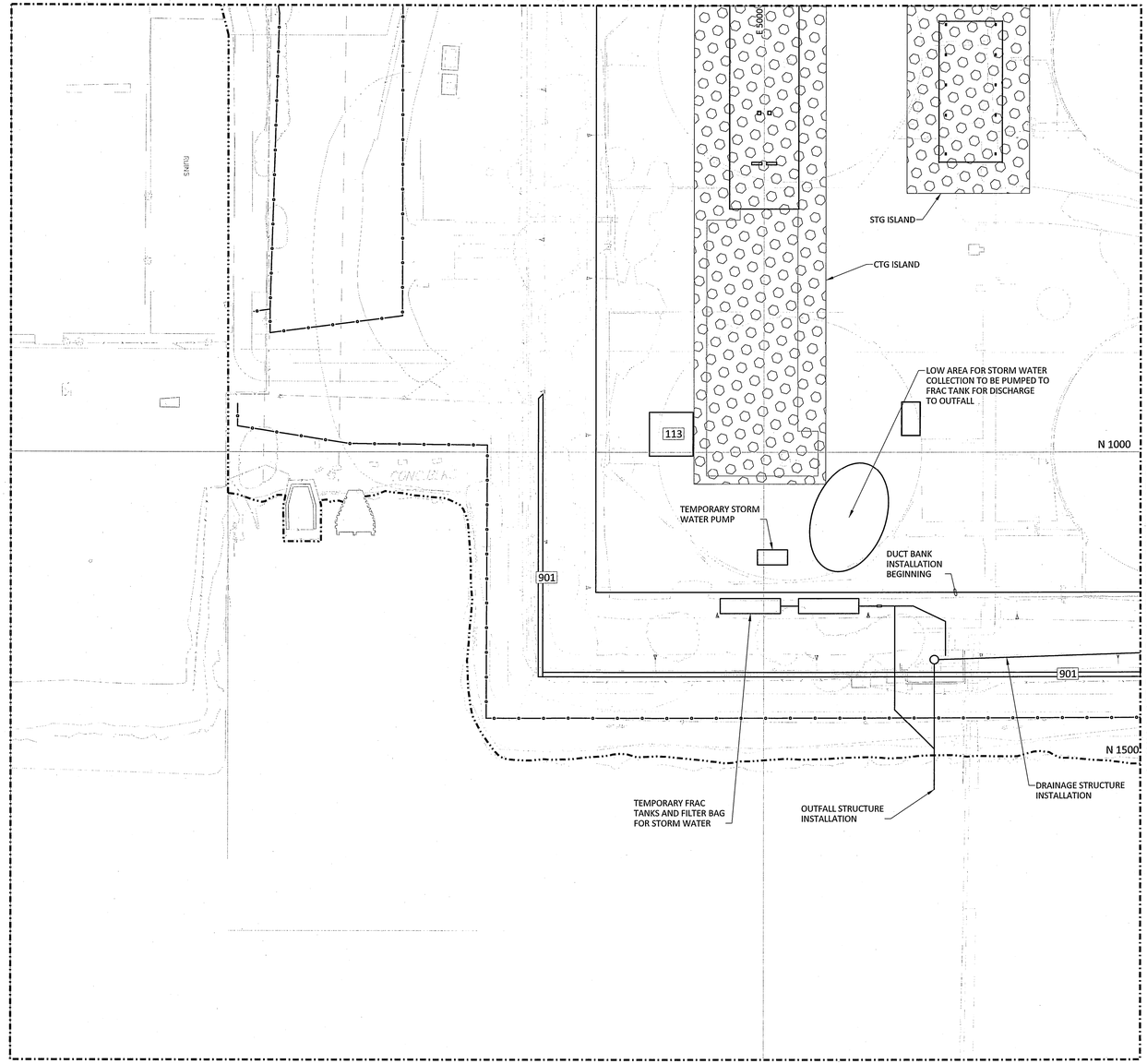
ANSI D SIZE

CONT. ____ MECH. ____ SPDH. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

MATCHLINE SEE DWG DS-1037A FOR CONTINUATION



MATCHLINE SEE DWG DS-1037D FOR CONTINUATION

FACILITIES LEGEND	
ID	FACILITY
113	HRSG BLOWDOWN SUMP
901	RETAINING WALL

PHASE 2 LEGEND

1. SEE DRAWING DS-1037 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 2 SEQUENCE

1. DRIVE DUCT BANK PILES.
2. START SHEET PILING IN SOUTHEAST CORNER OF SITE PROGRESSING EAST TO WEST.
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STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 2

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1037C

SPONSOR: T. MURPHY

VERSION: 0

PLANT NORTH
TRUE NORTH
20.73
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE

COHT. ELEC. MECH. CIVIL SPOH. OTHER

MATCHLINE SEE DWG DS-1037B FOR CONTINUATION

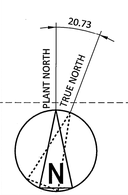
FACILITIES LEGEND	
ID	FACILITY
708	MANUFACTURED TREATMENT DEVICE (MTD)
901	RETAINING WALL

PHASE 2 LEGEND

1. SEE DRAWING DS-1037 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 2 SEQUENCE

1. DRIVE DUCT BANK PILES.
2. START SHEET PILING IN SOUTHEAST CORNER OF SITE PROGRESSING EAST TO WEST.
3. BACKFILL STG ISLAND FIRST, THEN BACK FILL CTG ISLAND.
4. START SHEET PILE INSTALLATION IN SOUTHEAST CORNER OF SITE PROGRESSING SOUTH TO NORTH.
5. START DUCT BANK INSTALLATION.
6. INSTALL ELECTRICAL MANHOLES.
7. START BLOWDOWN SUMP CONSTRUCTION.
8. START STG AND CTG PILING.
9. INSTALL MTD DISCHARGE PIPING AND OUTFALL STRUCTURE.
10. START BACKFILL IN SOUTHWEST CORNER AND PROGRESS NORTH AND WEST.
11. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
    - PHASE 1 = 191547-DS-1036A THRU 1036D
    - PHASE 2 = 191547-DS-1037A THRU 1037D
    - PHASE 3 = 191547-DS-1038A THRU 1038D
    - PHASE 4 = 191547-DS-1039A THRU 1039D
    - PHASE 5 = 191547-DS-1040A THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B



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STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.®
Corporate Headquarters:
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 2

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-DS-1037D

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

0 ISSUED FOR PERMITTING

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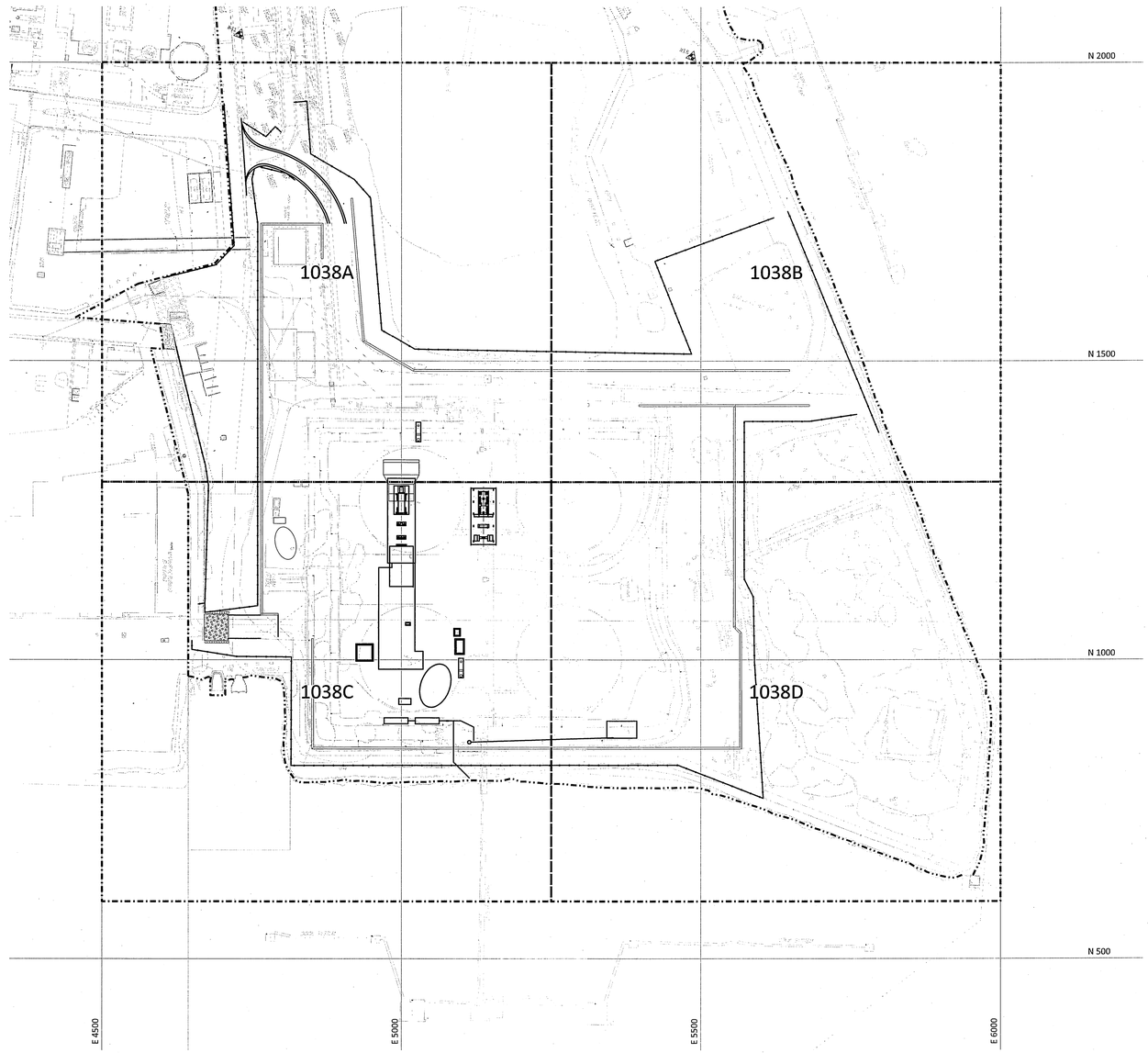
SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



PHASE 3 LEGEND

BACKFILL ELEVATIONS

- GRAVEL
- EL +9.0 FT
- EL +12.0 FT
- EL +17.0 FT
- SILT FENCE
- PROPERTY LINE

CONSTRUCTION PHASE 3 SEQUENCE

1. DUCT BANKS AND ELECTRICAL MANHOLES COMPLETED.
2. BLOWDOWN TANK COMPLETED.
3. STG & CTG FOUNDATION UNDER CONSTRUCTION.
4. INSTALL TWO OIL/WATER SEPERATORS.
5. CONSTRUCT WASTE WATER COLLECTION SUMP.
6. CONSTRUCT SPENT SLURRY SUMP.
7. INSTALL STORM WATER MAIN PIPE EAST SIDE OF SITE.
8. CONSTRUCTION OF GENERAL SERVICES BUILDING SUMP.
9. BACKFILL PROGRESSING WESTWARD.
10. SHEET PILE WALL COMPLETED.
11. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
    - PHASE 1 = 191547-DS-1036A THRU 1036D
    - PHASE 2 = 191547-DS-1037A THRU 1037D
    - PHASE 3 = 191547-DS-1038A THRU 1038D
    - PHASE 4 = 191547-DS-1039A THRU 1039D
    - PHASE 5 = 191547-DS-1040A THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED
PROFESSIONAL ENGINEER

100' 50' 0 100' 200'
1"=100'

ISSUED FOR PERMITTING

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Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT
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DATE 08/25/2016 REG NO. 27447

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Ø	8/25/2016	C.01450	PERMIT ISSUE	CDC	GLG	RFG	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 3 KEY PLAN

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION
PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
AN554D-BSEG038

FIRST D SIZE
CONT. ---- MECH. ---- SPON. ----
ELEC. ---- CIVIL ---- OTHER ----
SPONSOR: T. MURPHY
VERSION: 0

FACILITIES LEGEND	
ID	FACILITY
903	OIL/WATER SEPARATOR (UNDERGROUND)

PHASE 3 LEGEND

1. SEE DRAWING DS-1038 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 3 SEQUENCE

1. DUCT BANKS AND ELECTRICAL MANHOLES COMPLETED.
2. BLOWDOWN TANK COMPLETED.
3. STG & CTG FOUNDATION UNDER CONSTRUCTION.
4. INSTALL TWO OIL/WATER SEPERATORS.
5. CONSTRUCT WASTE WATER COLLECTION SUMP.
6. CONSTRUCT SPENT SLURRY SUMP.
7. INSTALL STORM WATER MAIN PIPE EAST SIDE OF SITE.
8. CONSTRUCTION OF GENERAL SERVICES BUILDING SUMP.
9. BACKFILL PROGRESSING WESTWARD.
10. SHEET PILE WALL COMPLETED.
11. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
    - PHASE 1 = 191547-DS-1036A THRU 1036D
    - PHASE 2 = 191547-DS-1037A THRU 1037D
    - PHASE 3 = 191547-DS-1038A THRU 1038D
    - PHASE 4 = 191547-DS-1039A THRU 1039D
    - PHASE 5 = 191547-DS-1040A THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 3

ARRANGEMENT DESIGN – CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

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	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-DS-1038A

TECHNICAL TABLES/SPECIFICATIONS:

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SIGNED MARK A. VANCE
DATE _____ REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0

PHASE 3 LEGEND

1. SEE DRAWING DS-1038 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 3 SEQUENCE

1. DUCT BANKS AND ELECTRICAL MANHOLES COMPLETED.
2. BLOWDOWN TANK COMPLETED.
3. STG & CTG FOUNDATION UNDER CONSTRUCTION.
4. INSTALL TWO OIL/WATER SEPERATORS.
5. CONSTRUCT WASTE WATER COLLECTION SUMP.
6. CONSTRUCT SPENT SLURRY SUMP.
7. INSTALL STORM WATER MAIN PIPE EAST SIDE OF SITE.
8. CONSTRUCTION OF GENERAL SERVICES BUILDING SUMP.
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10. SHEET PILE WALL COMPLETED.
11. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
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    - PHASE 3 = 191547-DS-1038 THRU 1038D
    - PHASE 4 = 191547-DS-1039 THRU 1039D
    - PHASE 5 = 191547-DS-1040 THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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DATE 8/25/2016 REG NO. 27447

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 3

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

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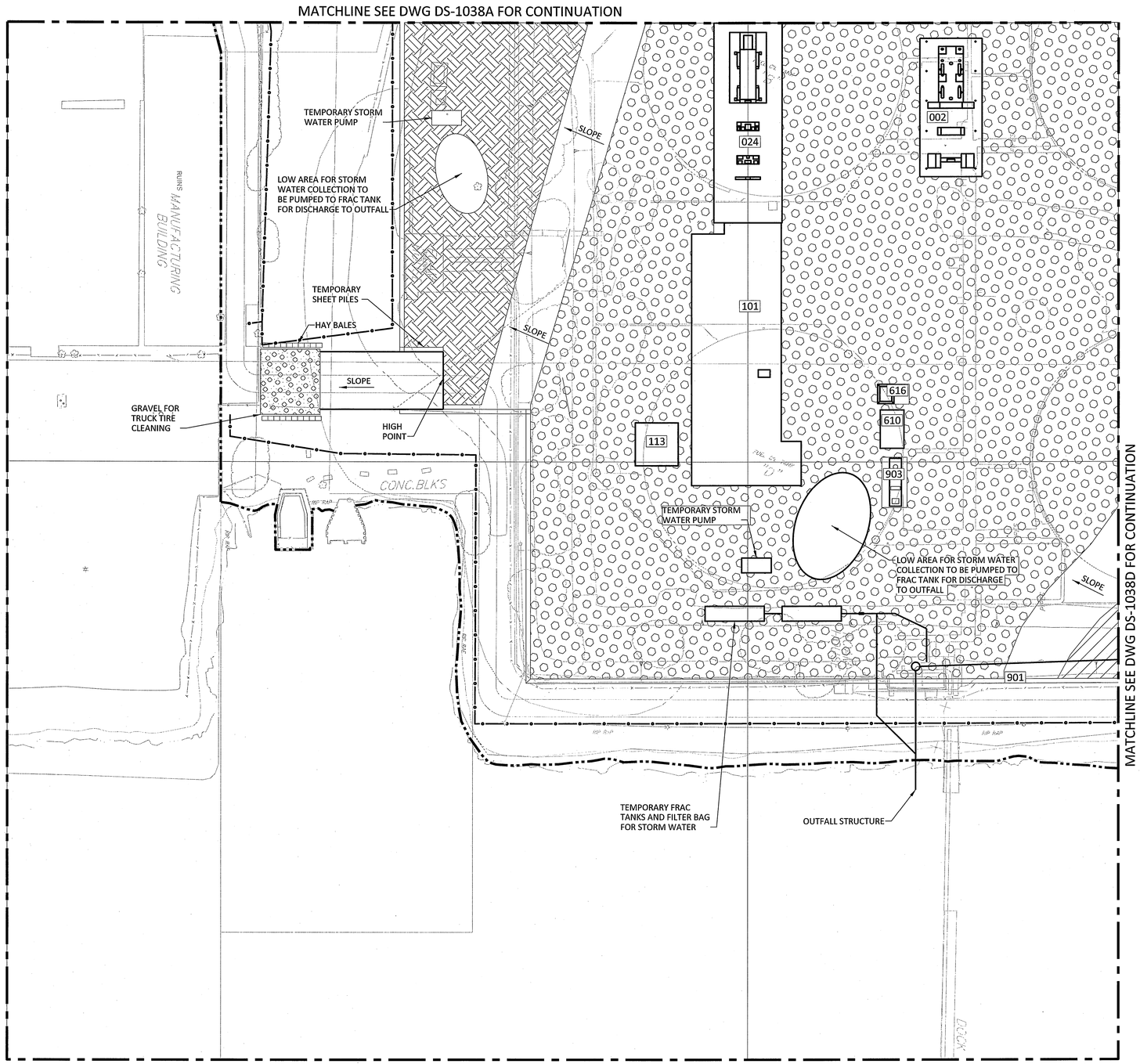
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1038B

ANSI D SIZE
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____
SPONSOR: T. MURPHY
VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
002	STEAM TURBINE GENERATOR
024	GAS TURBINE GENERATOR
101	HEAT RECOVERY STEAM GENERATOR
113	HRSG BLOWDOWN SUMP
610	WASTE WATER COLLECTION SUMP
616	SPENT SLURRY SUMP
901	RETAINING WALL
903	OIL/WATER SEPARATOR (UNDERGROUND)

PHASE 3 LEGEND

1. SEE DRAWING DS-1038 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 3 SEQUENCE

1. DUCT BANKS AND ELECTRICAL MANHOLES COMPLETED.
2. BLOWDOWN TANK COMPLETED.
3. STG & CTG FOUNDATION UNDER CONSTRUCTION.
4. INSTALL TWO OIL/WATER SEPARATORS.
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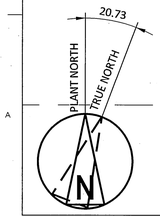
    - PHASE 4 = 191547-DS-1039 THRU 1039D
    - PHASE 5 = 191547-DS-1040 THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	8/25/2016	C.01950	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

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SIGNED MARK A. VANCE

DATE 8/25/2016 REG NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 3

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-DS-1038C

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0

MATCHLINE SEE DWG DS-1038B FOR CONTINUATION

MATCHLINE SEE DWG DS-1038C FOR CONTINUATION

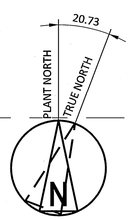
FACILITIES LEGEND	
ID	FACILITY
708	MANUFACTURED TREATMENT DEVICE
901	RETAINING WALL

PHASE 3 LEGEND

1. SEE DRAWING DS-1038 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 3 SEQUENCE

1. DUCT BANKS AND ELECTRICAL MANHOLES COMPLETED.
2. BLOWDOWN TANK COMPLETED.
3. STG & CTG FOUNDATION UNDER CONSTRUCTION.
4. INSTALL TWO OIL/WATER SEPERATORS.
5. CONSTRUCT WASTE WATER COLLECTION SUMP.
6. CONSTRUCT SPENT SLURRY SUMP.
7. INSTALL STORM WATER MAIN PIPE EAST SIDE OF SITE.
8. CONSTRUCTION OF GENERAL SERVICES BUILDING SUMP.
9. BACKFILL PROGRESSING WESTWARD.
10. SHEET PILE WALL COMPLETED.
11. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
    - PHASE 1 = 191547-DS-1036 THRU 1036D
    - PHASE 2 = 191547-DS-1037 THRU 1037D
    - PHASE 3 = 191547-DS-1038 THRU 1038D
    - PHASE 4 = 191547-DS-1039 THRU 1039D
    - PHASE 5 = 191547-DS-1040 THRU 1040D
    - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

STATE OF CONNECTICUT · MARK A. VANCE · 27447 · LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 3

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

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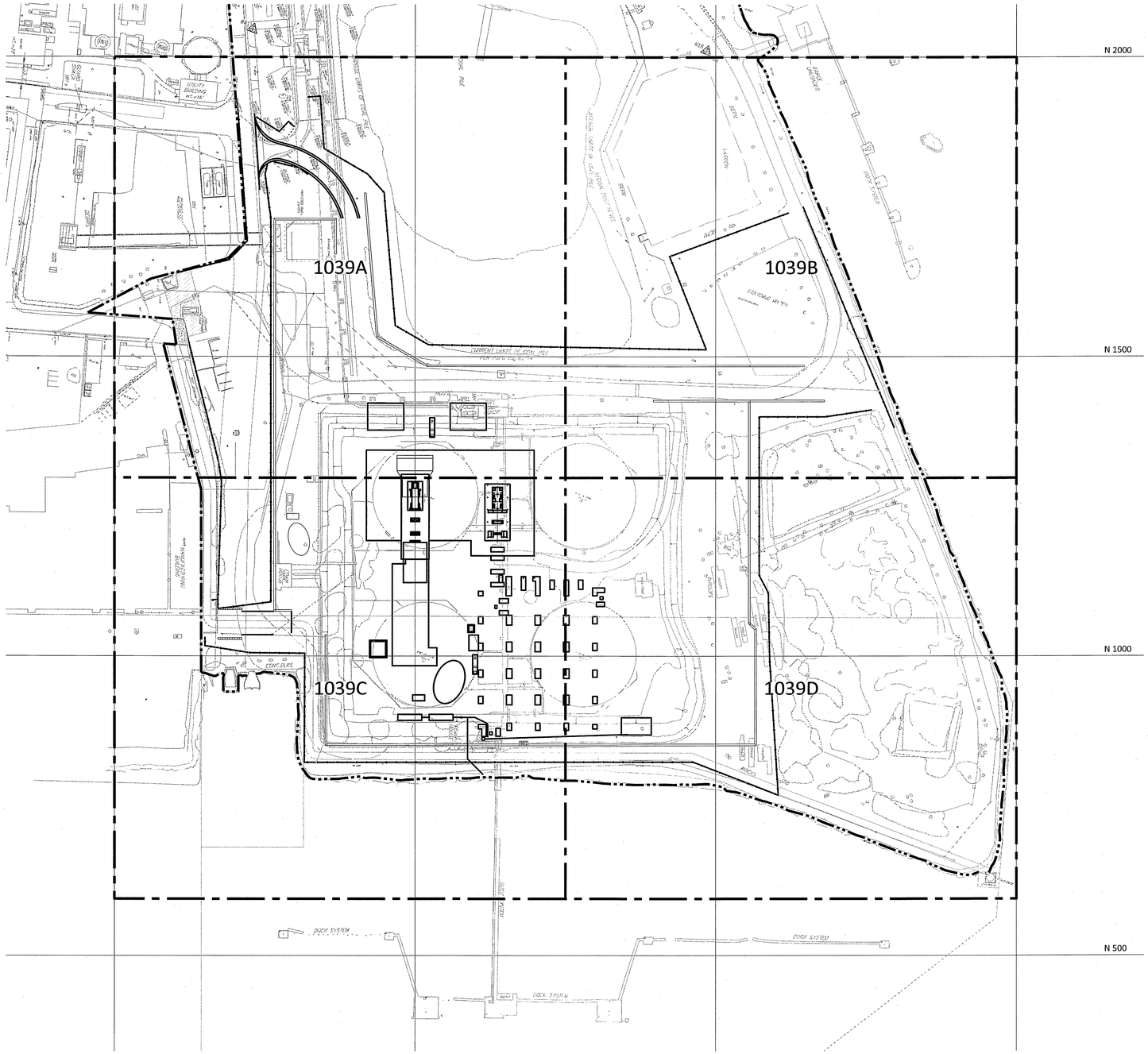
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1038D

1"=50' ANSI D SIZE CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ SPONSOR: T. MURPHY VERSION: 0



PHASE 4 LEGEND

BACKFILL ELEVATIONS

- GRAVEL
- EL +17.0 FT
- EL +12.0 FT
- SILT FENCE
- PROPERTY LINE

CONSTRUCTION PHASE 4 SEQUENCE

1. STG & CTG FOUNDATION COMPLETE.
2. TURBINE BUILDING FOUNDATION UNDER CONSTRUCTION.
3. ALL FOUNDATIONS UNDER CONSTRUCTION.
4. STORM WATER PIPING ALONG EAST HALF OF SITE COMPLETED.
5. STORM WATER SYSTEM ALONG WEST SIDE OF SITE UNDER CONSTRUCTION.
6. BACKFILL PROGRESSIONS FROM SOUTH TO NORTH ALONG WEST SIDE.
7. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED
PROFESSIONAL ENGINEER

100' 50' 0 100' 200'
1"=100'

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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 4 KEY PLAN

ARRANGEMENT DESIGN – CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1039

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____
SPONSOR: T. MURPHY
VERSION: 0

FACILITIES LEGEND	
ID	FACILITY
024	GAS TURBINE GENERATOR
050	STG GSU TRANSFORMER
051	CTG GSU TRANSFORMER
901	RETAINING WALL
903	OIL/WATER SEPARATOR (UNDERGROUND)

PHASE 4 LEGEND

1. SEE DRAWING DS-1039 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 4 SEQUENCE

1. STG & CTG FOUNDATION COMPLETE.
2. TURBINE BUILDING FOUNDATION UNDER CONSTRUCTION.
3. ALL FOUNDATIONS UNDER CONSTRUCTION.
4. STORM WATER PIPING ALONG EAST HALF OF SITE COMPLETED.
5. STORM WATER SYSTEM ALONG WEST SIDE OF SITE UNDER CONSTRUCTION.
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   - •PHASE 5 = 191547-DS-1040A THRU 1040D
   - •LAYDOWN AREA = 191547-DS-1041A & 1041B

STATE OF CONNECTICUT
MARK A. VANCE
27447
LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'
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Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	8/25/2016	C.01950	PERMIT	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 4

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1039A

PLANT NORTH
TRUE NORTH
20.73

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

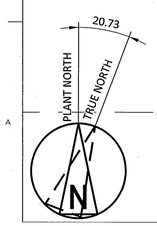
VERSION: 0

PHASE 4 LEGEND

1. SEE DRAWING DS-1039 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 4 SEQUENCE

1. STG & CTG FOUNDATION COMPLETE.
2. TURBINE BUILDING FOUNDATION UNDER CONSTRUCTION.
3. ALL FOUNDATIONS UNDER CONSTRUCTION.
4. STORM WATER PIPING ALONG EAST HALF OF SITE COMPLETED.
5. STORM WATER SYSTEM ALONG WEST SIDE OF SITE UNDER CONSTRUCTION.
6. BACKFILL PROGRESSIONS FROM SOUTH TO NORTH ALONG WEST SIDE.
7. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG.NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'
1"=40'

Project Location:
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 4

ARRANGEMENT DESIGN - CIVIL GENER

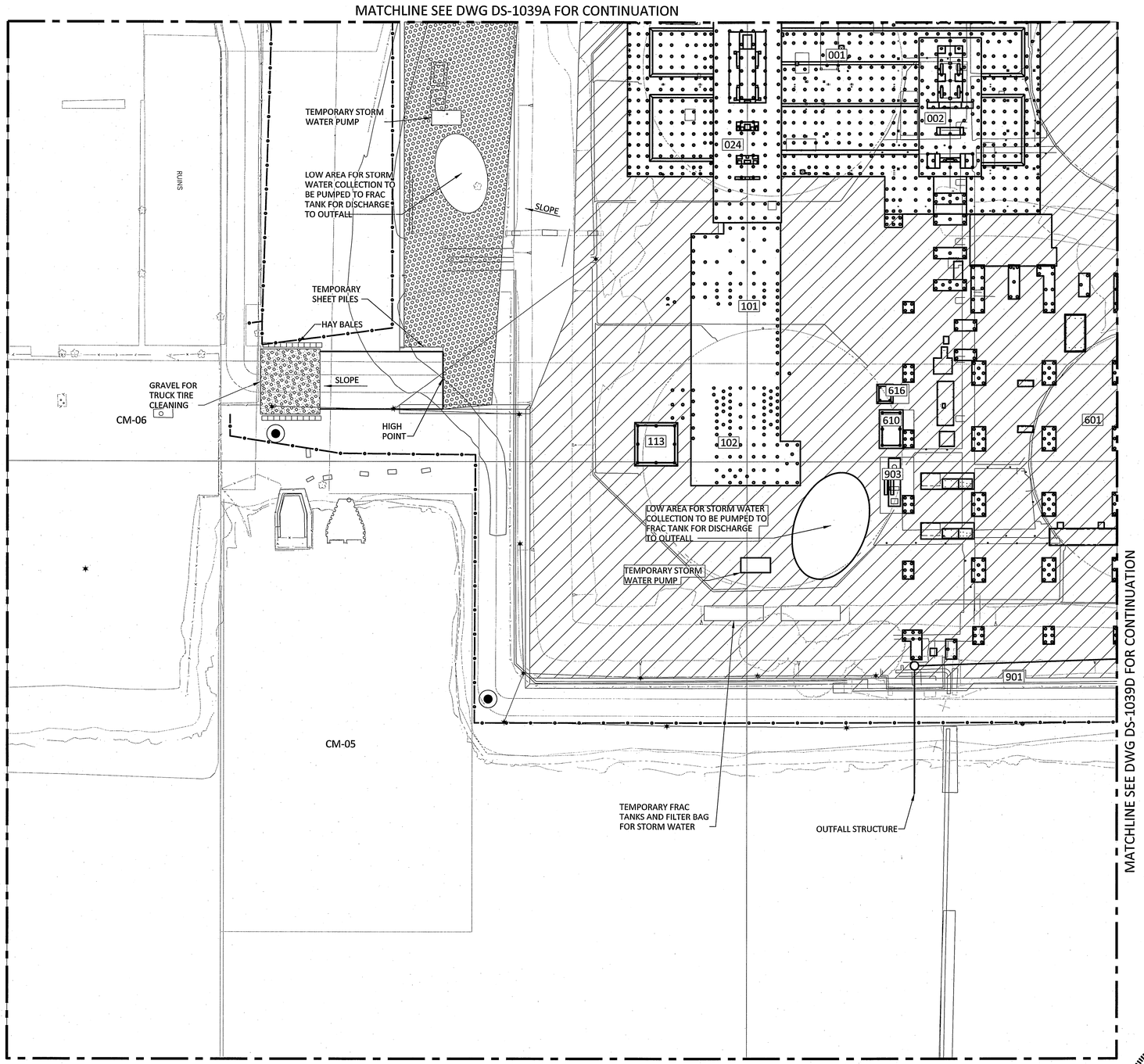
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1039B

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
001	TURBINE/ GENERATOR ENCLOSURE (PEMB)
002	STEAM TURBINE GENERATOR
024	GAS TURBINE GENERATOR
101	HEAT RECOVERY STEAM GENERATOR
102	HEAT RECOVERY STEAM GENERATOR STACK
113	HRSG BLOWDOWN SUMP
601	AIR COOLED CONDENSER (ACC)
610	WASTE WATER COLLECTION SUMP
616	SPENT SLURRY SUMP
901	RETAINING WALL
903	OIL/WATER SEPARATOR (UNDERGROUND)

PHASE 4 LEGEND

1. SEE DRAWING DS-1039 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 4 SEQUENCE

1. STG & CTG FOUNDATION COMPLETE.
2. TURBINE BUILDING FOUNDATION UNDER CONSTRUCTION.
3. ALL FOUNDATIONS UNDER CONSTRUCTION.
4. STORM WATER PIPING ALONG EAST HALF OF SITE COMPLETED.
5. STORM WATER SYSTEM ALONG WEST SIDE OF SITE UNDER CONSTRUCTION.
6. BACKFILL PROGRESSIONS FROM SOUTH TO NORTH ALONG WEST SIDE.
7. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
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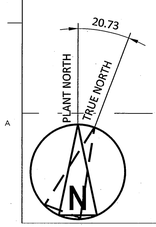
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	8/25/2016	C.01950	PERMIT	CDC	GLG	RFG		LWJ	MED

REVISION

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SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

40' 20' 0 40' 80'
1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
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BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 4

ARRANGEMENT DESIGN - CIVIL GENER

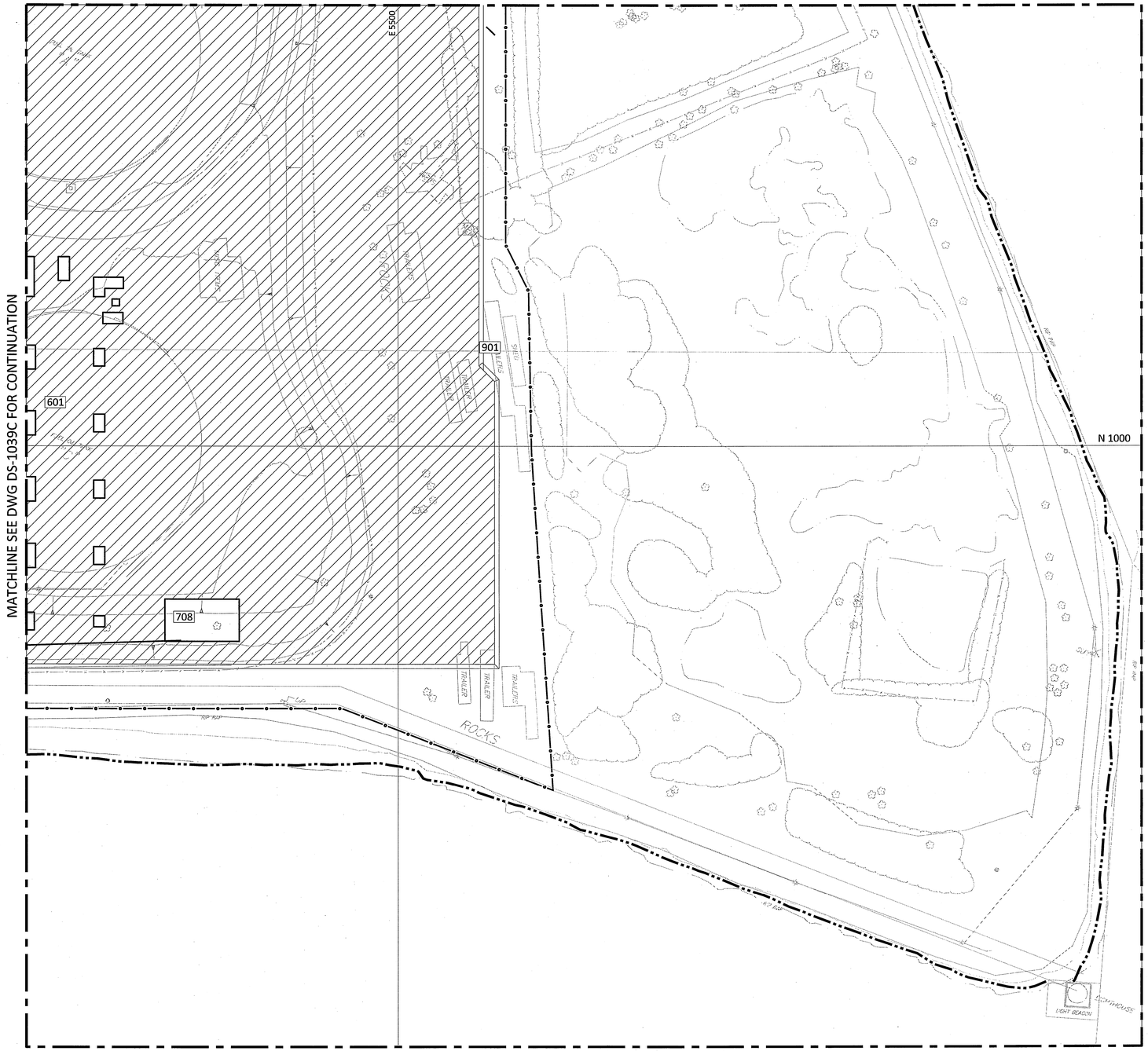
PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1039C

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
601	AIR COOLED CONDENSER (ACC)
708	MANUFACTURED TREATMENT DEVICE
901	RETAINING WALL

PHASE 4 LEGEND

1. SEE DRAWING DS-1039 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 4 SEQUENCE

1. STG & CTG FOUNDATION COMPLETE.
2. TURBINE BUILDING FOUNDATION UNDER CONSTRUCTION.
3. ALL FOUNDATIONS UNDER CONSTRUCTION.
4. STORM WATER PIPING ALONG EAST HALF OF SITE COMPLETED.
5. STORM WATER SYSTEM ALONG WEST SIDE OF SITE UNDER CONSTRUCTION.
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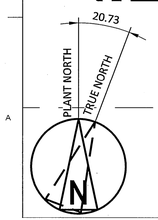
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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SIGNED MARK A. VANCE

DATE 8/25/2016 REG NO. 27447

STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

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Corporate Headquarters:
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REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 4

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

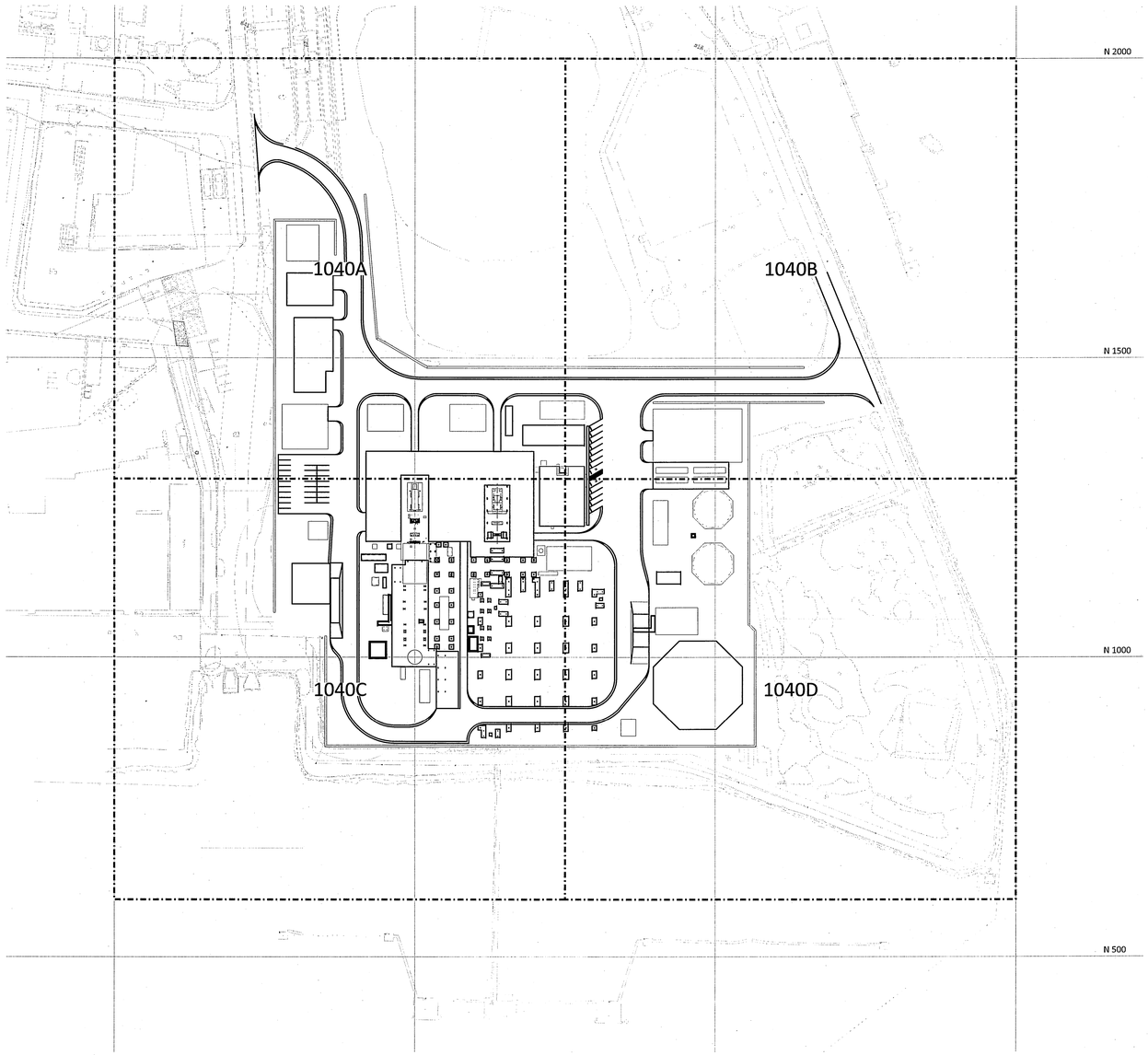
191547-DS-1039D

ANSI D SIZE

CONT. MECH. SPON.
ELEC. CIVIL OTHER

SPONSOR: T. MURPHY

VERSION: 0



PHASE 5 LEGEND

PROPERTY LINE

CONSTRUCTION PHASE 5 SEQUENCE

1. FOUNDATIONS, UNDERGROUND UTILITIES, BACKFILL FINAL SURFACING AND ROADS COMPLETE. SEE 5STF-S3000, 5STD-S3200 AND 5STF-S3400 SERIES DRAWINGS FOR DETAILS.
2. INITIAL LAYER OF GRAVEL AROUND PILE AND ROAD WAY BASE COMPLETED.
3. LOW AREAS TO BE PUMPED INTO STORM WATER SYSTEM.
4. REMOVE TEMPORARY CONSTRUCTION ACCESS ROAD.
5. REMOVE EROSION AND SEDIMENT CONTROLS.
6. COMPLETE PAVING AND FINISHED GRADING.
7. DEMOLITION.
8. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

100' 50' 0 100' 200'

1"=100'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	8/25/2016	C.01950	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 5 KEY PLAN
ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-DS-1040

PLANT NORTH
TRUE NORTH
20.73
N

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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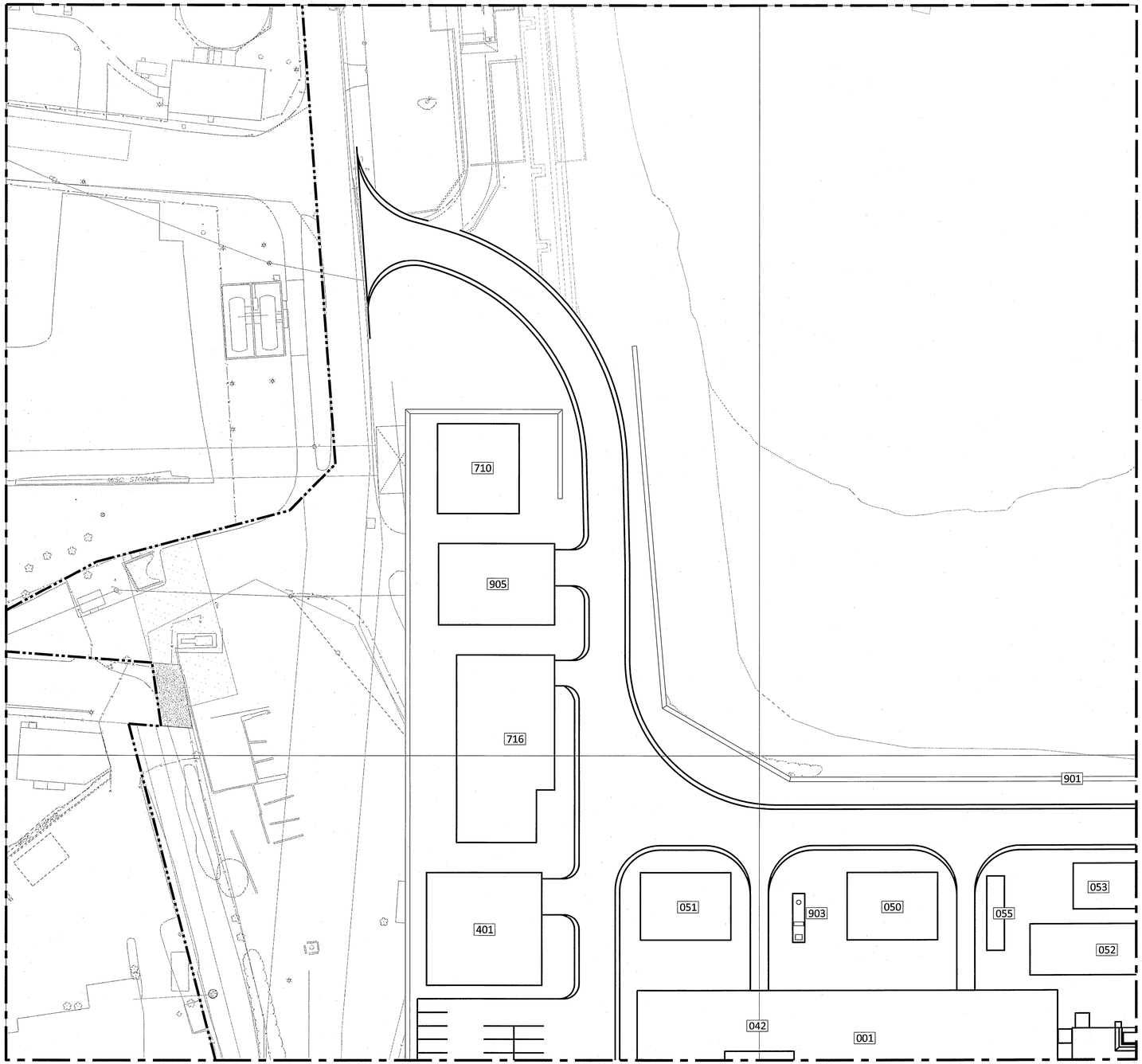
SIGNED MARK A. VANCE
DATE 8/25/2016 REG NO. 27447

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
001	TURBINE/GENERATOR ENCLOSURE (PEMB)
042	CTG AIR INLET FILTER
050	STG GSU TRANSFORMER
051	CTG GSU TRANSFORMER
052	MV ELECTRICAL PDC ENCLOSURE
053	AUX TRANSFORMER
055	STANDBY DIESEL GENERATOR
401	WAREHOUSE/MAINTENANCE BUILDING (PEMB)
710	FUEL GAS METERING STATION
716	GIS ENCLOSURE
901	RETAINING WALL
903	OIL/WATER SEPARATOR (UNDERGROUND)
905	PARKING/SIDEWALK

PHASE 5 LEGEND

1. SEE DRAWING DS-1040 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 5 SEQUENCE

1. FOUNDATIONS, UNDERGROUND UTILITIES, BACKFILL FINAL SURFACING AND ROADS COMPLETE. SEE 5STF-S3000, 5STD-S3200 AND 5STF-S3400 SERIES DRAWINGS FOR DETAILS.
2. INITIAL LAYER OF GRAVEL AROUND PILE AND ROAD WAY BASE COMPLETED.
3. LOW AREAS TO BE PUMPED INTO STORM WATER SYSTEM.
4. REMOVE TEMPORARY CONSTRUCTION ACCESS ROAD.
5. REMOVE EROSION AND SEDIMENT CONTROLS.
6. COMPLETE PAVING AND FINISHED GRADING.
7. DEMOLITION.
8. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
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   - LAYDOWN AREA = 191547-DS-1041A & 1041B

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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SIGNED DAVID J. KOEHLER
DATE 8/25/2016 REG NO. 25295

STATE OF CONNECTICUT
DAVID J. KOEHLER
27447
LICENSED
PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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40' 20' 0 40' 80'
1"=40'

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Ø	08/25/16	C.01950	PERMIT ISSUE	CDC	GLG	RFG	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 5

ARRANGEMENT DESIGN - CIVIL GENER

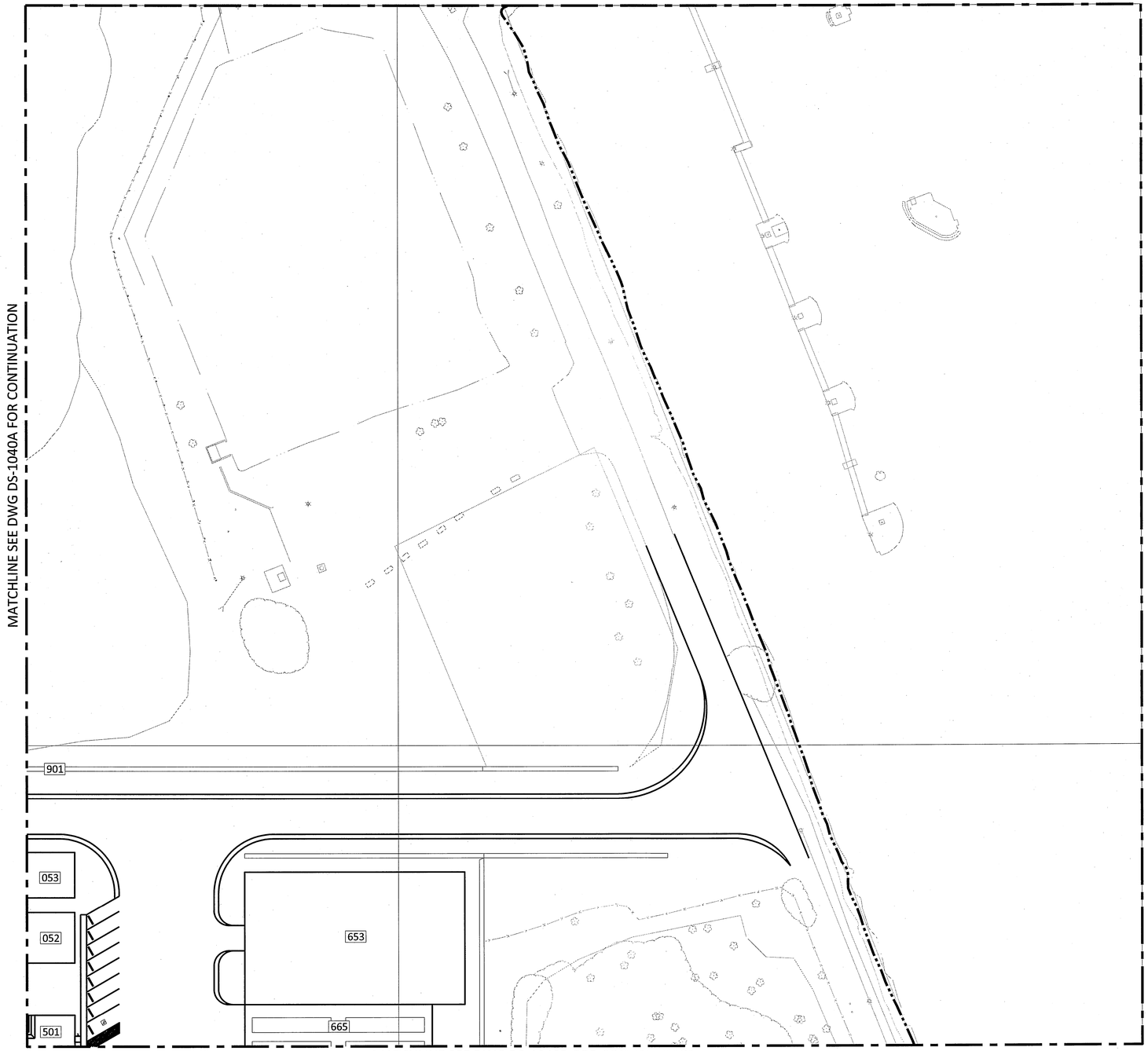
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
X	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1040A

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
052	MV ELECTRICAL PDC ENCLOSURE
053	AUX TRANSFORMER
501	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB)
653	GENERAL SERVICES ENCLOSURE (PEMB)
665	DEMIN WATER TRAILERS/CYCLE MAKEUP TREATMENT
901	RETAINING WALL

PHASE 5 LEGEND

1. SEE DRAWING DS-1040 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 5 SEQUENCE

1. FOUNDATIONS, UNDERGROUND UTILITIES, BACKFILL FINAL SURFACING AND ROADS COMPLETE. SEE 5STF-S3000, 5STD-S3200 AND 5STF-S3400 SERIES DRAWINGS FOR DETAILS.
2. INITIAL LAYER OF GRAVEL AROUND PILE AND ROAD WAY BASE COMPLETED.
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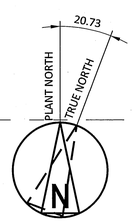

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

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SIGNED DAVID J. KOEHLER

DATE 8/25/2016 REG NO. 25295

STATE OF CONNECTICUT MARK A. JONES 27457 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

Project Location:
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Ø	08/25/16	C.01950	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 5

ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

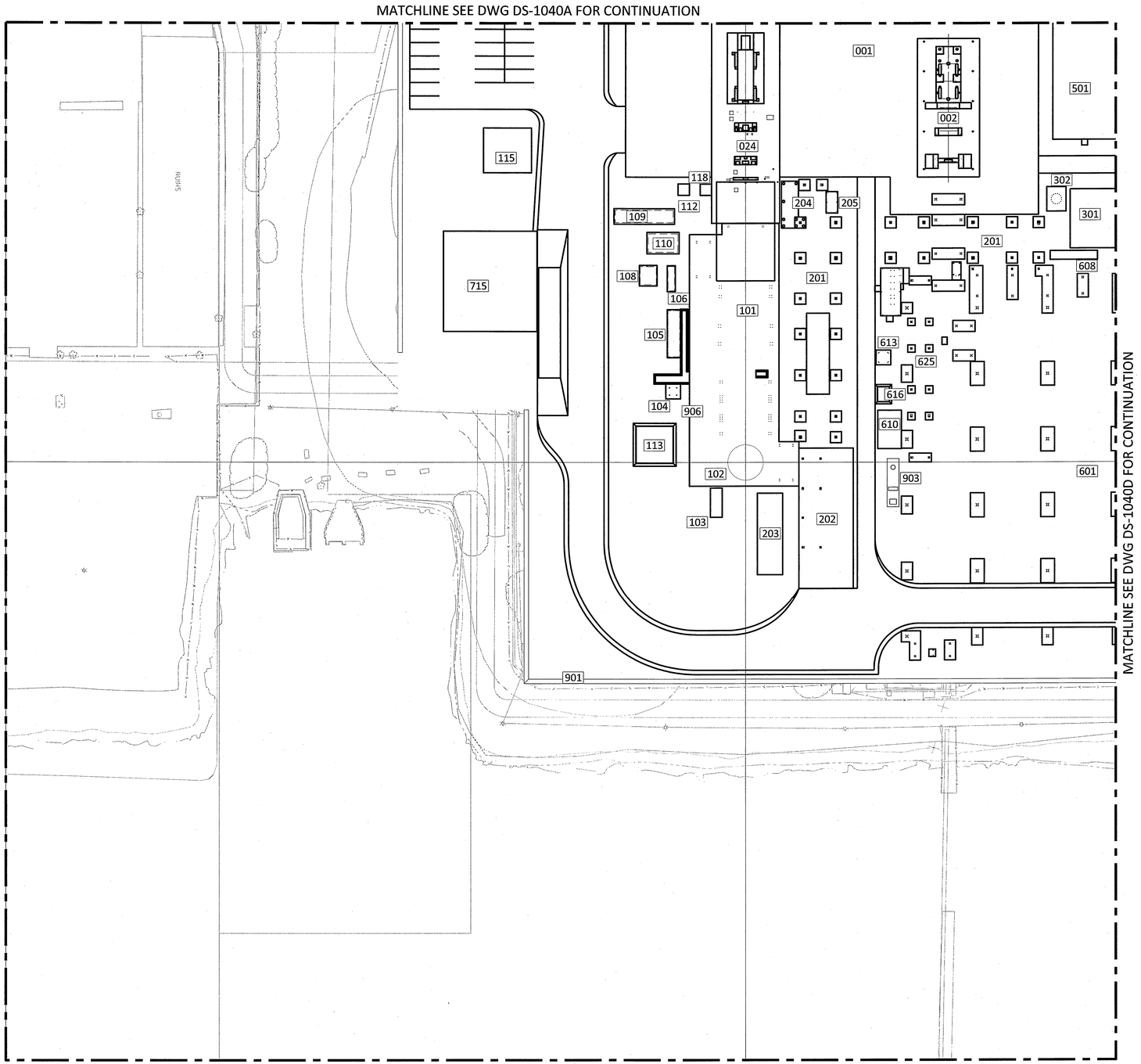
191547-DS-1040B

ANSI D SIZE

CONT. ELEC. MECH. CIVIL SPON. OTHER

SPONSOR: T. MURPHY

VERSION: 0



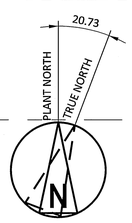
FACILITIES LEGEND	
ID	FACILITY
001	TURBINE/GENERATOR ENCLOSURE (PEMB)
002	STEAM TURBINE GENERATOR
024	GAS TURBINE GENERATOR
101	HEAT RECOVERY STEAM GENERATOR
102	HEAT RECOVERY STEAM GENERATOR STACK
103	CEMS EQUIPMENT MODULE
104	HRSG BLOWDOWN TANK
105	HRSG AMMONIA FLOW CONTROL SKID
106	HRSG GE BURNER FUEL SKID
108	FUEL GAS ABSOLUTE SEPARATOR
109	FUEL GAS PERFORMANCE HEATER
110	STARTUP GAS HEATER
112	WATER WASH/FALSE START DRAINS TANK (UG)
113	HRSG BLOWDOWN SUMP
115	BULK HYDROGEN SYSTEM
118	FUEL DRAINS TANK
201	HRSG UTILITY RACK
202	BOILER FEEDWATER PUMP ENCLOSURE (PEMB)
203	HRSG ELECTRICAL PDC ENCLOSURE
204	CT LUBE OIL RESERVOIR
205	CT LIQUID FUEL FILTER SKID
301	AUX BOILER ENCLOSURE (PEMB)
302	AUX BOILER STACK
501	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB)
601	AIR COOLED CONDENSER (ACC)
608	CT GLYCOL PUMP & HEATER SKID
610	WASTE WATER COLLECTION SUMP
613	RESIN RECOVERY TANK
616	SPENT SLURRY SUMP
625	CONDENSATE UTILITY RACK
715	AQUEOUS AMMONIA STORAGE & UNLOADING AREA
901	RETAINING WALL
903	OIL/WATER SEPARATOR (UNDERGROUND)
906	HRSG ACOUSTIC SHROUD

PHASE 5 LEGEND

1. SEE DRAWING DS-1040 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 5 SEQUENCE

1. FOUNDATIONS, UNDERGROUND UTILITIES, BACKFILL FINAL SURFACING AND ROADS COMPLETE. SEE 5STF-S3000, 5STD-S3200 AND 5STF-S3400 SERIES DRAWINGS FOR DETAILS.
2. INITIAL LAYER OF GRAVEL AROUND PILE AND ROAD WAY BASE COMPLETED.
3. LOW AREAS TO BE PUMPED INTO STORM WATER SYSTEM.
4. REMOVE TEMPORARY CONSTRUCTION ACCESS ROAD.
5. REMOVE EROSION AND SEDIMENT CONTROLS.
6. COMPLETE PAVING AND FINISHED GRADING.
7. DEMOLITION.
8. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B



TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

Ø ISSUED FOR PERMITTING

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED DAVID J. KOEHLER

DATE 8/25/2016 REG NO. 25295

STATE OF CONNECTICUT DAVID J. KOEHLER 25295 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'

1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 5

ARRANGEMENT DESIGN - CIVIL GENER

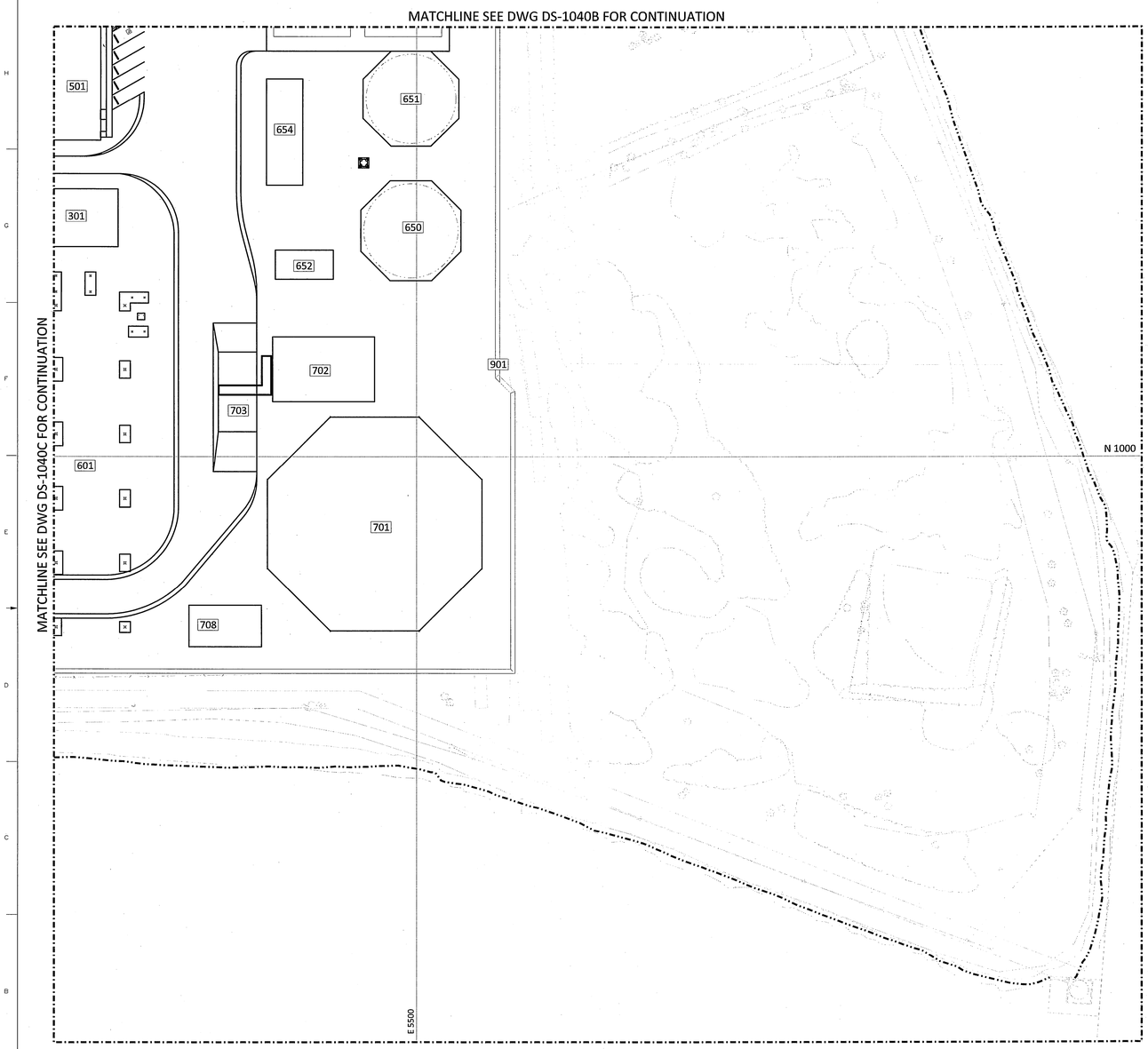
PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1040C

ANSI D SIZE | CONT. | MECH. | SPON. | ELEC. | CIVIL | OTHER | SPONSOR: T. MURPHY | VERSION: 0



FACILITIES LEGEND	
ID	FACILITY
301	AUX BOILER ENCLOSURE (PEMB)
501	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB)
601	AIR COOLED CONDENSER (ACC)
650	SERVICE/FIRE WATER STORAGE TANK
651	DEMIN WATER TANK
652	FIRE PUMP HOUSE
654	AUX COOLING TOWER
701	ULSD TANK (ULTRA LOW SULFUR DIESEL)
702	FUEL OIL FORWARDING PUMP ENCLOSURE (PEMB)
703	FUEL OIL TRUCK UNLOADING AREA
708	MANUFACTURED TREATMENT DEVICE
901	RETAINING WALL

PHASE 5 LEGEND

1. SEE DRAWING DS-1040 FOR KEY PLAN AND LEGEND.

CONSTRUCTION PHASE 5 SEQUENCE

1. FOUNDATIONS, UNDERGROUND UTILITIES, BACKFILL FINAL SURFACING AND ROADS COMPLETE. SEE 5STF-S3000, 5STD-S3200 AND 5STF-S3400 SERIES DRAWINGS FOR DETAILS.
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4. REMOVE TEMPORARY CONSTRUCTION ACCESS ROAD.
5. REMOVE EROSION AND SEDIMENT CONTROLS.
6. COMPLETE PAVING AND FINISHED GRADING.
7. DEMOLITION.
8. PHASING PLAN DRAWINGS ARE AS FOLLOWS:
   - PHASE 1 = 191547-DS-1036A THRU 1036D
   - PHASE 2 = 191547-DS-1037A THRU 1037D
   - PHASE 3 = 191547-DS-1038A THRU 1038D
   - PHASE 4 = 191547-DS-1039A THRU 1039D
   - PHASE 5 = 191547-DS-1040A THRU 1040D
   - LAYDOWN AREA = 191547-DS-1041A & 1041B

20.73
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

NONE

REVISION NOTES:

Ø ISSUED FOR PERMITTING

ISSUED FOR PERMITTING

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I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT.
SIGNED MARKA. VANCE
DATE 8/25/2016 REG NO. 27447

STATE OF CONNECTICUT MARKA. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

40' 20' 0 40' 80'
1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	8/25/2016	C.01958	PERMIT ISSUE	CDC	GLG	RFG		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
CONSTRUCTION PHASE 5
ARRANGEMENT DESIGN - CIVIL GENER

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	GRAYLYN GARR	ROGER GOODLET
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

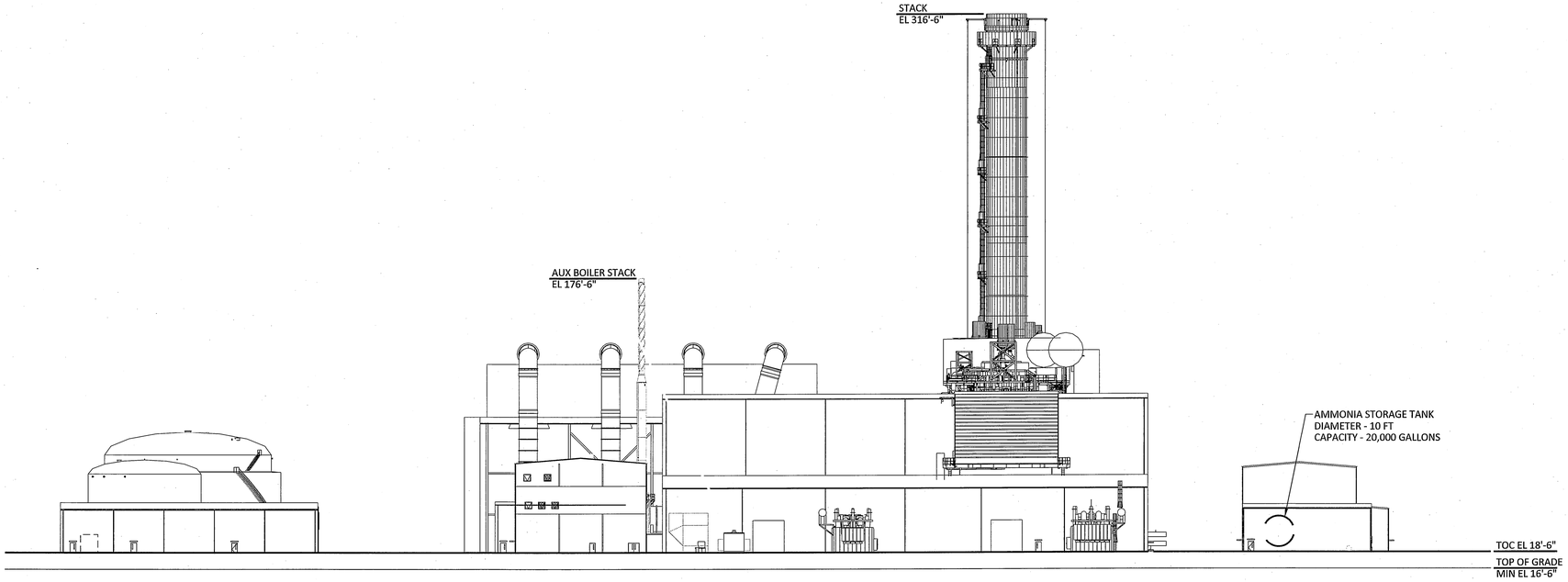
VENDOR NO.
191547-DS-1040D

ANSI D SIZE

CONT. ____ MECH. ____ SPOIL ____
ELEC. ____ CIVIL ____ OTHER ____

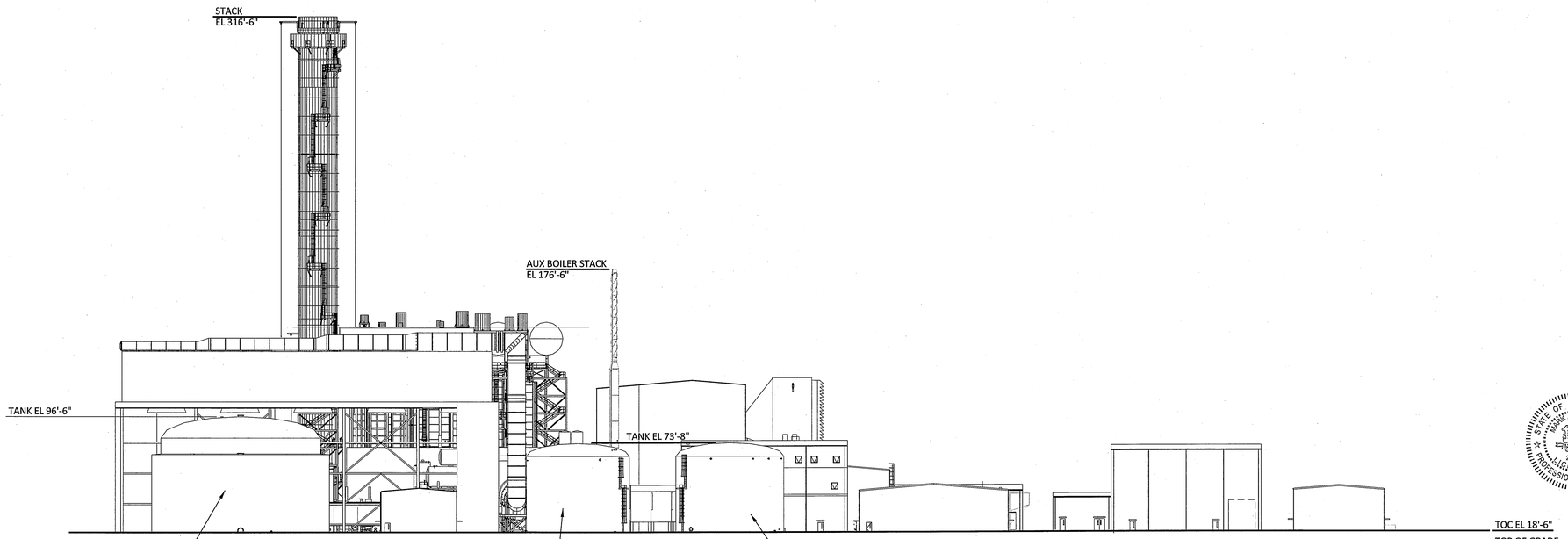
SPONSOR: T. MURPHY

VERSION: 0



PLANT ELEVATION LOOKING SOUTH

SCALE: 1"-40'



PLANT ELEVATION LOOKING WEST

SCALE: 1"-40'

NOTES

1. ALL ELEVATIONS SHOWN ON THIS DWG ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.

2. THE 100-YEAR FLOOD ELEVATION OF 14 FEET NAVD88 IS BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) REFERENCE NO. 09001C0441G, REVISED JULY 8, 2013. THE 500-YEAR FLOOD ELEVATION IS NOT SHOWN ON THE FIRM BUT IS ESTIMATED TO BE 15.3 FEET NAVD88. THE FLOOD INSURANCE RATE STUDY FOR FAIRFIELD COUNTY (STUDY NUMBER 09001CV001C, REVISED OCTOBER 16, 2013) INDICATES THAT THE 500-YEAR STILLWATER ELEVATION IS 1.3 FEET HIGHER THAN THE 100-YEAR STILLWATER ELEVATION. THEREFORE, THE MINIMUM GRADE EL = 16.5 FT NADV88 IS ABOVE THE 500-YEAR FLOOD ELEVATION OF 15.3 FEET.

STATE OF CONNECTICUT
DAVID J. KOEHLER
LICENSED
PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	8/25/2016	C.01952	PERMIT ISSUE	CDC	TEB	LWJ	X	LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5

PLANT LAYOUT
GENERAL YARD
PLANT CROSS SECTION

ARRANGEMENT DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

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Project Location:
Fairfield County, CT

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Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
CHRIS CARPENTER	TERRY BROWN	WEY-JEN LEE
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-DS-1043

TECHNICAL TABLES/SPECIFICATIONS:
NONE

REVISION NOTES:

0	ISSUED FOR PERMITTING

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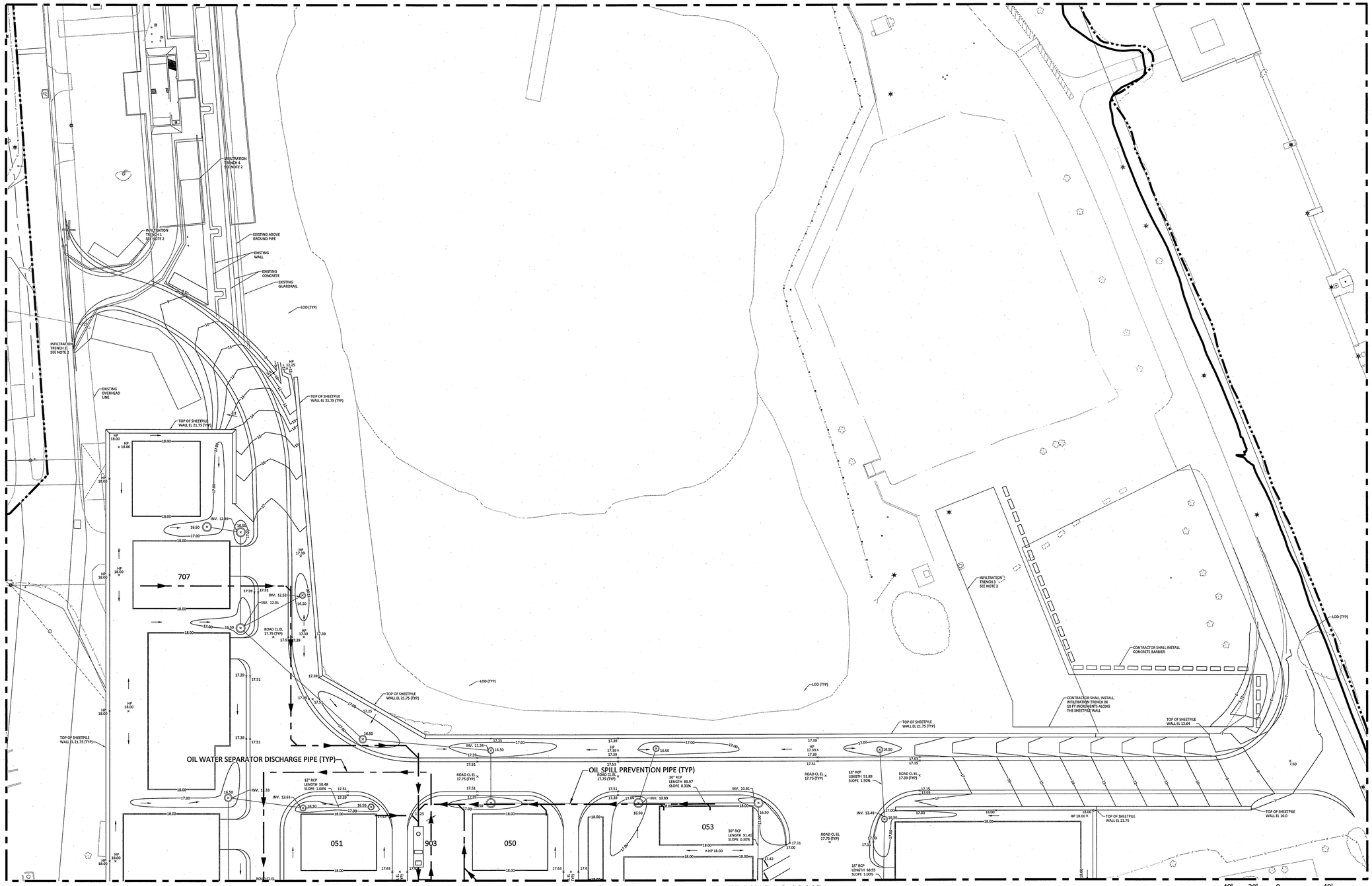
SIGNED DAVID J. KOEHLER
DATE 08/25/16 REG NO. 25295

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

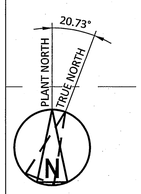
SPONSOR: T. MURPHY VERSION: 0



MATCHLINE N 1369.00 -FOR CONTINUATION SEE DWG DS-1044B

40' 20' 0 40' 80'

1"=40'



TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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SIGNED MARK A. VANCE

DATE 08/25/16 REG NO. 27447

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

LEGENDS/SYMBOL KEYS:

050	STG GSU TRANSFORMER
051	CTG GSU TRANSFORMER
053	AUX TRANSFORMER
707	FUEL GAS PROCESSING ENCLOSURE (PEMB)
903	OILY/WATER SEPARATOR (UNDERGROUND)

PROPERTY LINE ALONG MEAN HIGH WATER

COASTAL JURISDICTION LINE

DESIGN NOTES:

REFERENCES:

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	IPERMIT ISSUE	TAR	BMH	JJD		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
OIL SPILL PREVENTION PIPES

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

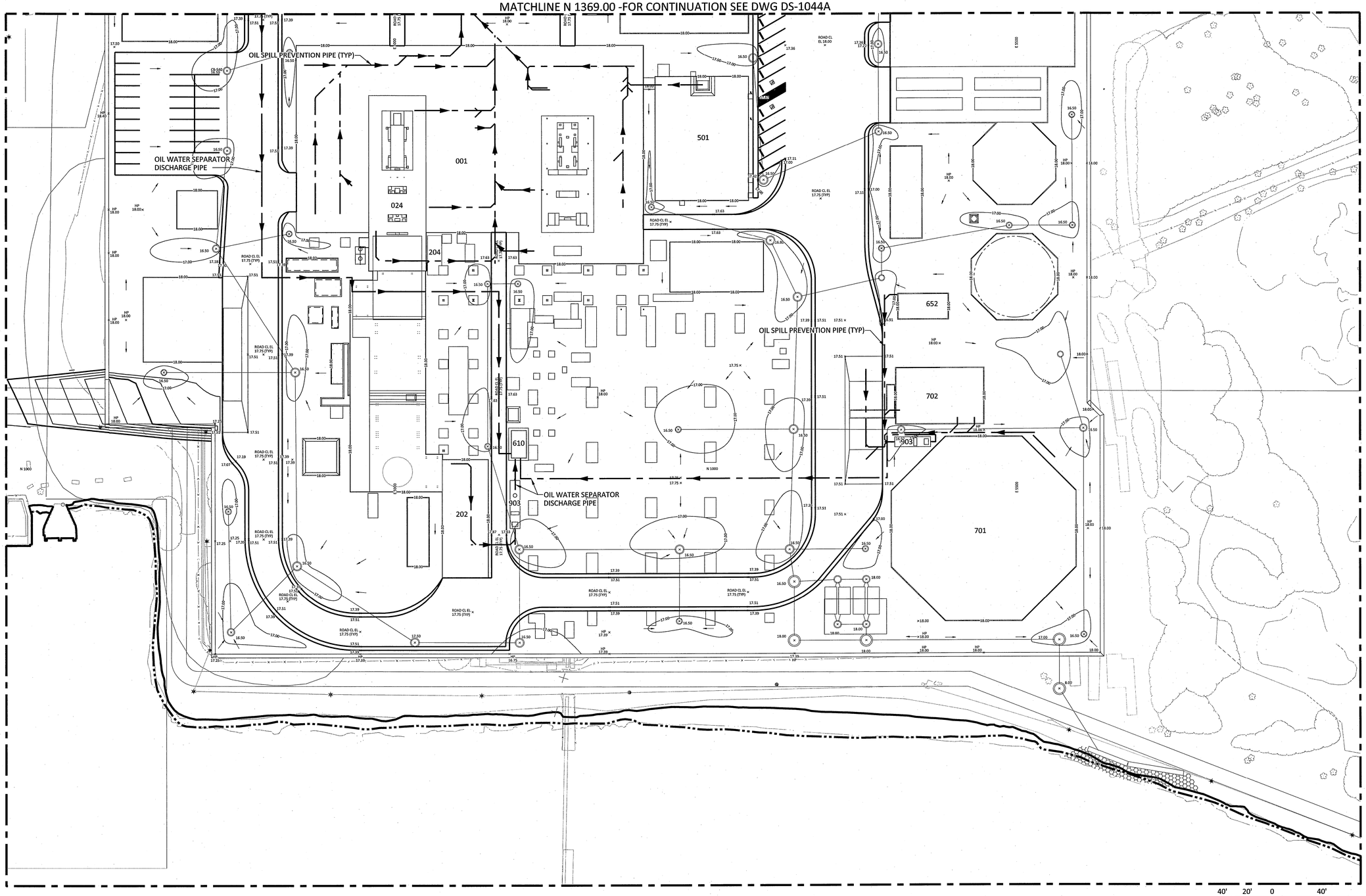
PSEG
Power Connecticut LLC

DRAWN (B&V) TIM ROBINSON	CHECKED (B&V) BLIA HER	EXAMINED (B&V) JERRY DYCK
REVIEWED (B&V)	REVIEWED (B&V) WEY-JEN LEE	APPROVED (B&V) MICHAEL DRAKE

VENDOR NO.
191547-DS-1044A

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0

MATCHLINE N 1369.00 -FOR CONTINUATION SEE DWG DS-1044A



40' 20' 0 40' 80'

1"=40'

LEGENDS/SYMBOL KEYS:

001	TURBIN/GENERTOR ENCLOSURE (PEMB)
024	GAS TURBINE GENERATOR
202	BOILER FEEDWATER PUMP ENCLOSURE (PEMB)
204	CT LUBE OIL RESERVOIR
501	ADMIN/CONTROL/AUX ELECT BUILDING (PEMB)
610	WASTE WATER COLLECTION SUMP
652	FIRE PUMP HOUSE
701	ULSD TANK (ULTRA LOW SULFUR DIESEL)
702	FUEL OIL FORWARDING PUMP ENCLOSURE (PEMB)
903	OIL/WATER SEPARATOR (UNDERGROUND)

PROPERTY LINE ALONG MEAN HIGH WATER

COASTAL JURISDICTION LINE

DESIGN NOTES:

REFERENCES:

DRAWING REVISED FOR STORMWATER OUTFALL CHANGES

ISSUED FOR PERMITTING

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STATE OF CONNECTICUT MARK A. VANCE 27447 LICENSED PROFESSIONAL ENGINEER

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	09/14/16	C.01950	PERMIT ISSUE	RJW	BMH	CAF		GLG	MED
1	09/06/16	C.01950	ISSUED FOR REVIEW	RJW	BMH	CAF		GLG	MED
0	08/25/16	C.01950	PERMIT ISSUE	TAR	BMH	JJD		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
GENERAL YARD
OIL SPILL PREVENTION PIPES

PARTIAL SITE PLAN DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
REBECCA WILLIAMS	BLIA HER	CHRIS FINN
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	GRAYLYN GARR	MICHAEL DRAKE

VENDOR NO. 191547-DS-1044B

20.73°
PLANT NORTH
TRUE NORTH
N

TECHNICAL TABLES/SPECIFICATIONS:

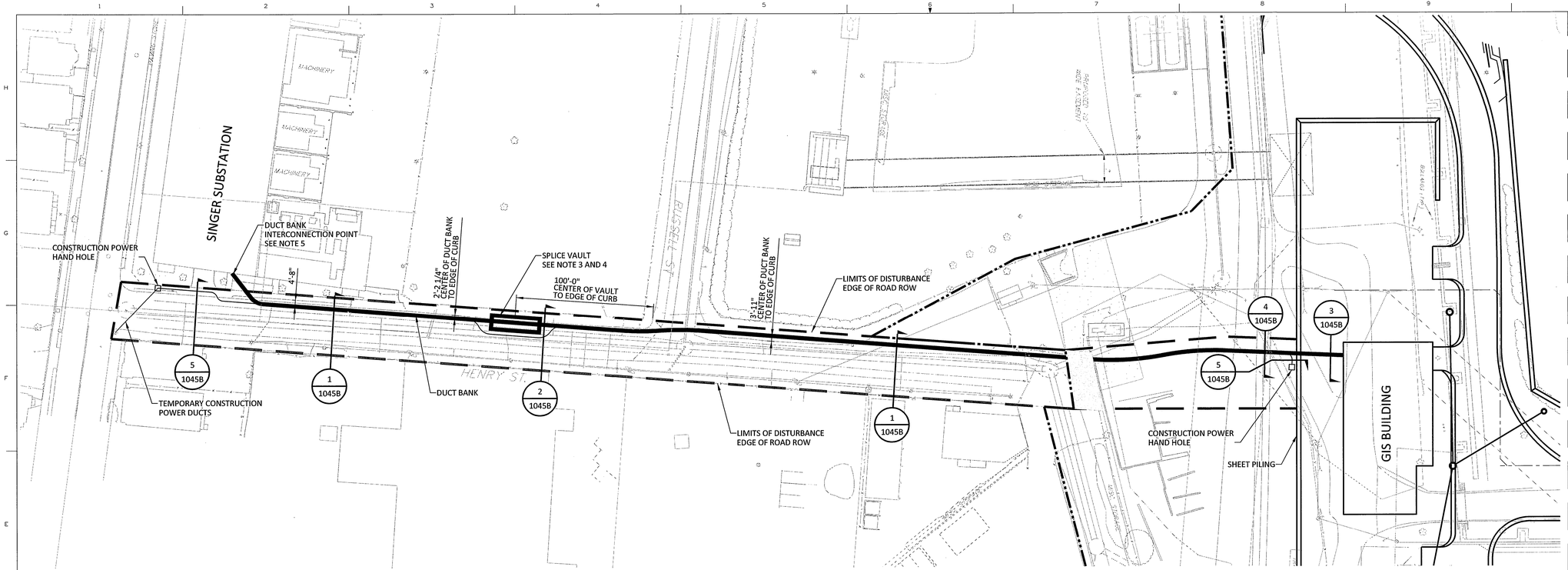
REVISION NOTES:

2	ISSUED FOR PERMITTING
1	ISSUED FOR REVIEW
0	ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT.

SIGNED MARK A. VANCE
DATE 08/25/16 REG NO. 27447

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 2



LEGENDS/SYMBOL KEYS:

DESIGN NOTES:

1. SEE DWG 5STF-S3000 FOR GENERAL NOTES, LEGEND AND ABBREVATIONS.
2. SEE DWG 5STF-S3910 FOR ROADS AND PARKING DETAILS.
3. EXTERIOR DIMENSIONS OF SPLICE VAULT WILL BE APPROXIMATELY 10'x10'X35'.
4. SPLICE VAULT MAY BE REQUIRED TO KEEP CABLE INSTALLATION FORCES WITHIN ACCEPTABLE LIMITS. VAULT MAY NOT BE REQUIRED BASED ON THE FINAL CABLE DESIGN.
5. FROM THE INTERCONNECTION POINT INTO THE SINGER SUBSTATION, THE 345KV CABLE WILL USE EXISTING CONDUITS. SEE UI DRAWING IN REFERECES FOR DETAILS.

REFERENCES:
UI - SINGER SUBSTATION 25251-518

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMIT ISSUE	SLH	JRB	BCH		Ø	JRB

REVISION

BRIDGEPORT HARBOR UNIT 5
345KV UNDERGROUND TRANSMISSION
LIMITS OF DISTURBANCE

STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
SAMUEL HILDRETH	JUSTIN BARDWELL	BRAD HIPPISLEY
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	DAVID KOEHLER	JUSTIN BARDWELL

VENDOR NO.
191547-DS-1045A

SPONSOR: T. MURPHY VERSION: 0

40' 20' 0 40' 80'
1"=40'

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Avenue, Overland Park, KS 66211

STATE OF CONNECTICUT DAVID A. KOEHLER 25295 LICENSED PROFESSIONAL ENGINEER

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SIGNED DAVID KOEHLER
DATE 08/25/16 REG NO. 25295

TECHNICAL TABLES/SPECIFICATIONS:

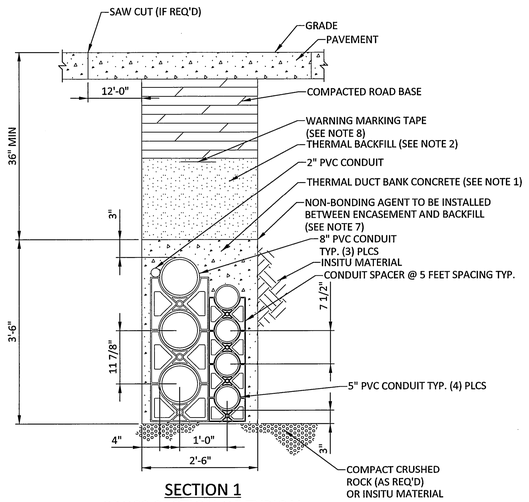
REVISION NOTES:

Ø ISSUED FOR PERMITTING

PLANT NORTH 20.73° TRUE NORTH N

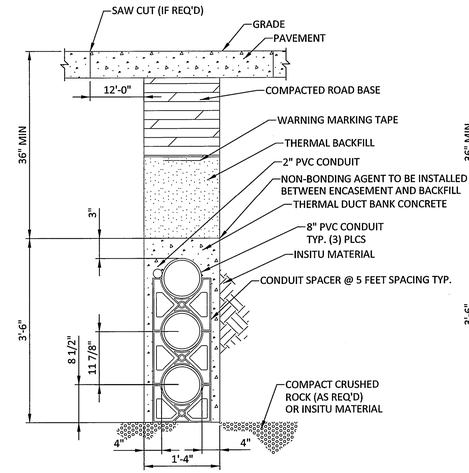
ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____



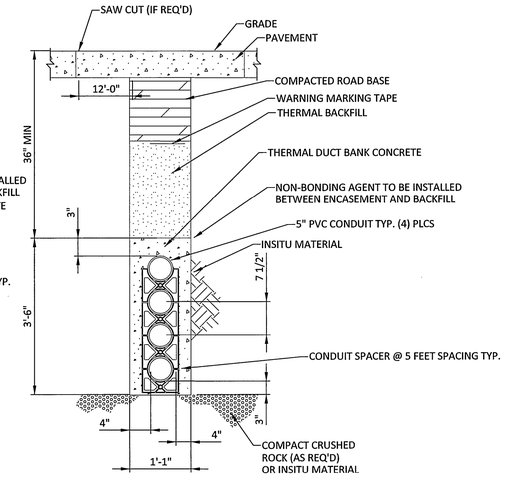
SECTION 1
CROSS SECTION OF TYPICAL DUCT BANK

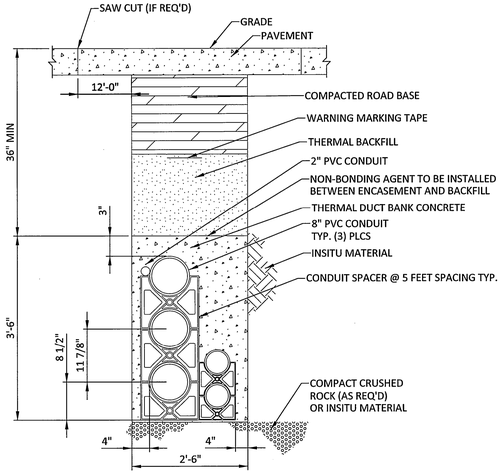
SCALE: 1/4" = 1'-0"



SECTION 2
CROSS SECTION OF TYPICAL DUCT BANK AT SPLICING VAULT

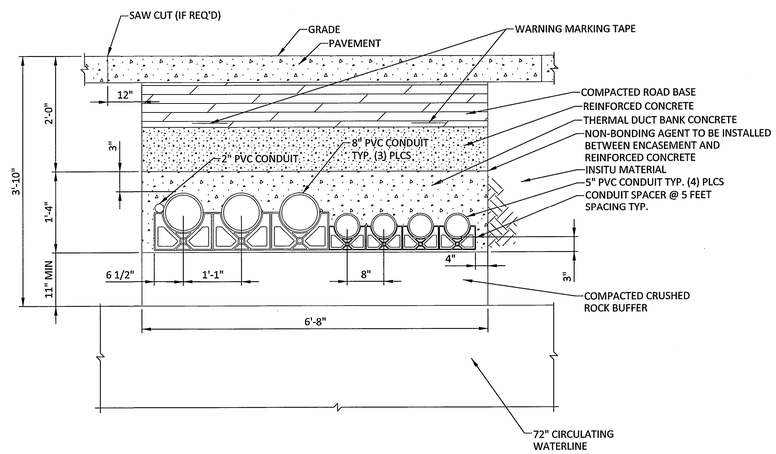
SCALE: 1/4" = 1'-0"





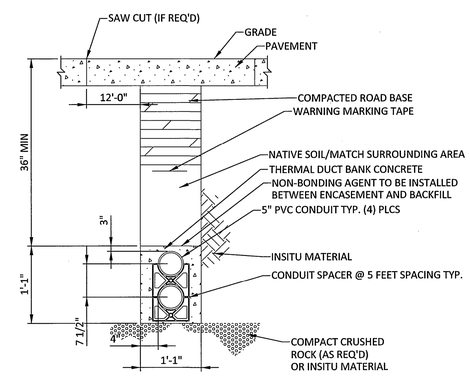
SECTION 3
CROSS SECTION OF 345KV DUCT BANK

SCALE: 1/4" = 1'-0"



SECTION 4
CROSS SECTION OF DUCT BANK AT CIRCULATING WATER LINE

SCALE: 1/4" = 1'-0"



SECTION 5
CROSS SECTION OF CONSTRUCTION POWER DUCT BANK

SCALE: 1/4" = 1'-0"

LEGENDS/SYMBOL KEYS:

DESIGN NOTES:

1. THERMAL CONCRETE FOR DUCT BANK ENCASEMENT SHALL MEET PROJECT SPECIFICATIONS. MIX DESIGN SHALL BE TESTED AND APPROVED PRIOR TO INSTALLATION.
2. BACKFILL FOR DUCT BANK SHALL BE THERMALLY ACCEPTABLE. FLOWABLE THERMAL BACKFILL (FTB), SELECTED GRANULAR FILL, AND NATIVE SOIL ARE POSSIBLE BACKFILL MATERIALS. ALL BACKFILL MATERIALS SHALL BE APPROVED BEFORE INSTALLATION. ALL BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. CONDUIT SHALL BE RESTRAINED TO PREVENT FLOATING DURING ENCASEMENT. ONLY NON-METALLIC RESTRAINTS SHALL BE USED.
4. CONDUIT SPACERS SHALL BE ANCHORED BY EANS OF REBAR STAKES OR ACCEPTABLE EQUAL.
5. ALL REINFORCING REBAR SHALL BE AT LEAST 2-INCHES FROM PVC CONDUITS, FITTINGS AND ANCHORS, AND SHALL HAVE 1 1/2-INCHES MINIMUM CONCRETE COVER
6. ALL CONDUIT ENDS SHALL BE SEALED AT THE END OF EACH WORKING DAY.
7. NON-BONDING AGENT SHALL BE INSTALLED BETWEEN ENCASEMENT CONCRETE AND FTB. NON-BONDING AGENT TO BE PLASTIC SHEETING OR ACCEPTABLE EQUAL. NON-BONDING AGENT IS NOT REQUIRED BETWEEN ENCASEMENT CONCRETE AND GRANULAR OR NATIVE BACKFILL.
8. CONTRACTOR TO INSTALL WARNING MARKING TAPE ABOVE THE DUCT BANK 18 INCHES BELOW GRADE. CABLE MARKING TAPE SHALL BE PROVIDED BY THE CONTRACTOR TO COVER THE ENTIRE UNDERGROUND LENGTH OF THE CONCRETE DUCT. CABLE MARKING TAPE SHALL BE A 6-INCH WIDE (MINIMUM) PLASTIC STRIP WITH THE WORDS "CAUTION ELECTRIC LINE BURIED BELOW" PRINTED IN BLACK ON A RED BACKGROUND. THE TAPE SHALL BE INSTALLED FLAT AND DIRECTLY ABOVE THE DUCT BANK WITH THE PRINTED SIDE UP. TAPE SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS.
9. 3" EDGE TO EDGE SPACING SHALL BE MAINTAINED BETWEEN CONDUITS AT ALL LOCATIONS.
10. ALL DUCT BANK DIMENSIONS ARE MINIMUMS.
11. PAVEMENT AND COMPACTED ROAD BASE SHALL MEET ALL STATE LOCAL REQUIREMENTS.

REFERENCES:

UI - SINGER SUBSTATION 25251-518

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.01950	PERMIT ISSUE	SLH	JRB	BCH	X	Ø	JRB

REVISION

Ø ISSUED FOR PERMITTING

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT

SIGNED DAVID KOEHLER
DATE 08/25/16 REG NO. 25295

STATE OF CONNECTICUT DAVID J. KOEHLER No. 25295 LICENSED PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

BRIDGEPORT HARBOR UNIT 5
345KV UNDERGROUND TRANSMISSION
DUCTBANK SECTIONS

STANDARDS DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

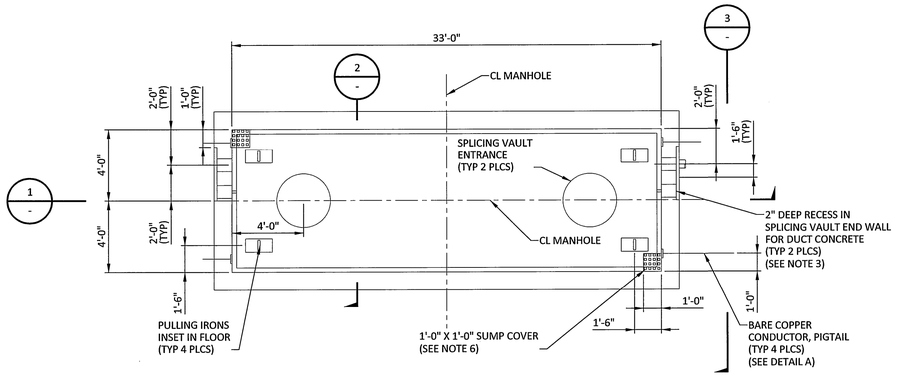
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
SAMEL HILDRETH	JUSTIN BARDWELL	BRAD HIPPISLEY
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	DAVID KOEHLER	JUSTIN BARDWELL

VENDOR NO. 191547-DS-1045B

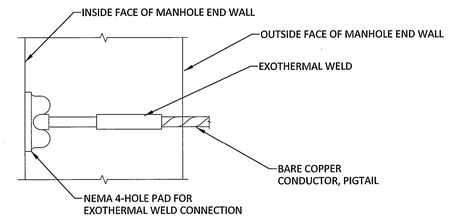
ANSI D SIZE

CONT. ____ SPON. ____
ELEC. ____ CIVIL. ____ OTHER ____

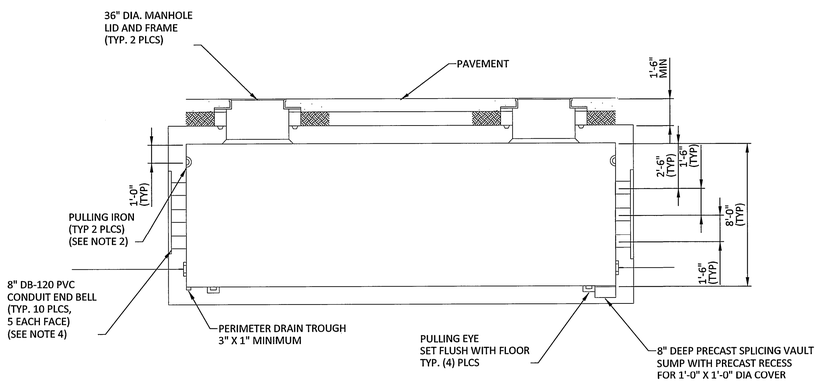
SPONSOR: T. MURPHY VERSION: 0



PLAN VIEW
SCALE: 1/4"=1'-0"



DETAIL A
SCALE: 1/4"=1'-0"



SECTION 1
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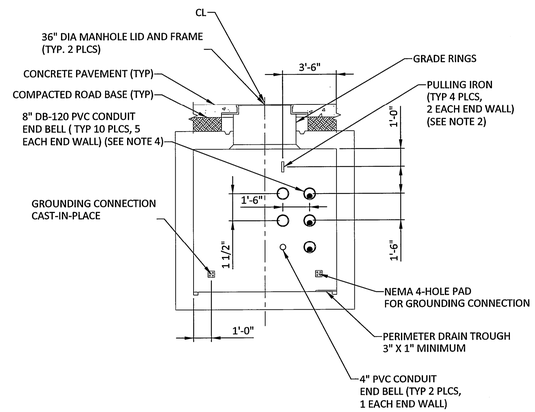
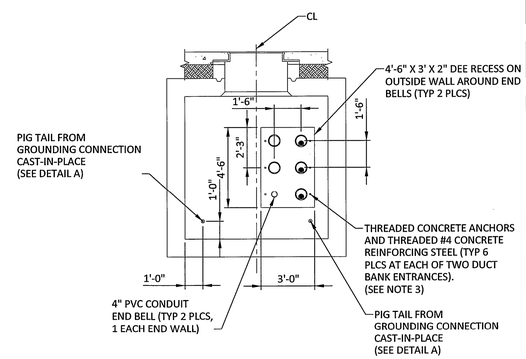


SECTION 2
SCALE: 1/4"=1'-0"



SECTION 3
SCALE: 1/4"=1'-0"

LEGENDS/SYMBOL KEYS:

DESIGN NOTES:

1. EXTERIOR SPLICING VAULT SURFACES SHALL BE COATED WITH DAMP PROOFING.
2. PULLING IRONS SHALL BE RATED FOR A MINIMUM OF 32,000 LBS TENSION AT A LOADING ANGLE PERPENDICULAR TO THE WALL AND A SAFETY FACTOR OF 2.
3. SPLICING VAULT SUPPLIER SHALL PRECAST A MINIMUM 2" DEEP BY 3'-0" WIDE BY 4'-6" HIGH RECESS IN THE MANHOLE OUTSIDE END WALL CENTERED AROUND EACH OF THE TWO DUCT ENTRANCES. CIVIL CONSTRUCTION SUBCONTRACTOR SHALL ENSURE A SUFFICIENT AMOUNT OF DUCT CONCRETE IS PLACED TO COMPLETELY FILL EACH RECESS.
4. SPLICING VAULT FABRICATOR SHALL CAST WITHIN THE MANHOLE END WALL PVC MOLDED END BELL AND LONG BELL COUPLING FITTINGS.
5. SPLICING VAULT SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 HEAVEY LOADINGS, USING WHICHEVER COMBINATION OF FORCES PRODUCES THE MAXIMUM STRESS. FOR ADDITIONAL DESIGN PARAMETERS, SEE SPECIFICATIONS
6. THE SPLICING VAULT SUPPLIER SHALL DESIGN AND INSTALL LIFTING LUGS SO AS TO SUPPORT THE WEIGHT OF EACH SECTION DURING PLACEMENT. LIFTING LUGS SHALL NOT PROTRUDE ABOVE FLOOR SURFACE.
7. REBAR WITHIN SPLICING VAULT WALLS SHALL NOT FORM A CLOSED LOOP AROUND ANY INDIVIDUAL 8 INCH CONDUIT OPENINGS. REBAR LOOPS ARE ACCEPTABLE WHEN ENCIRCLING ALL OF THE 8 INCH CONDUIT OPENINGS.

REFERENCES:

UI - SINGER SUBSTATION 25251-518

ISSUED FOR PERMITTING

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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.81950	PERMIT ISSUE	SLH	JRB	BCH		0	JRB

REVISION

BRIDGEPORT HARBOR UNIT 5
345KV UNDERGROUND TRANSMISSION
SPLICING VAULT

STANDARDS — DESIGN-CIVIL GENERAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters: 11401 Lamar Avenue, Overland Park, KS 66211

STATE OF CONNECTICUT — DAVID J. KOEHLER — LICENSED PROFESSIONAL ENGINEER — 08/25/16

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
SAMUEL HILDRETH	JUSTIN BARDWELL	BRAD HIPPISLEY
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	DAVID KOEHLER	JUSTIN BARDWELL

VENDOR NO. 191547-DS-1045C

SPONSOR: T. MURPHY — VERSION: 0

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

0 — ISSUED FOR PERMITTING

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SIGNED DAVID KOEHLER
DATE 08/25/16 REG NO. 25295

ANSI D SIZE — CONT. ___ MECH. ___ SPON. ___ ELEC. ___ CIVIL ___ OTHER ___

Luminaire Schedule			
Symbol	Qty	Label	Description
	24	LED2	HOLOPHANE PLED2 18L 5K AS UN NA G L5H PETROLUX 2 LED WET LOCATION
	111	LED4	HOLOPHANE W4G LED 10C 1000 40K T3M W4G LED, 10 LED'S, 1 AMP DRIVE
	20	LED5	HOLOPHANE W4G LED 20C 1000 40K T3M W4G LED, 20 LED'S, 1 AMP DRIVE
	17	P1	(1) LED1 MGLED 9 4K AX A L X X - Street Light
	11	P2	(2) LED1 MGLED 9 4K AX A L X X - Street Light
	4	P3	(1) LED3 PMLED 2 5K 07A 66 - Flood Light

Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
CalcPts_Site Area	Illuminance	Fc	3.29	37.69	0.03
Outside Boundary	Illuminance	Fc	0.24	25.95	0.00

LEGENDS/SYMBOL KEYS:

DESIGN NOTES:

1. THIS DRAWING REFLECTS LIGHTING LEVELS IN A POINT TO POINT METHOD
2. FIXTURE MOUNTING HEIGHT ARE APPROXIMATELY.
3. LIGHTING FIXTURE MOUNTING HEIGHTS ARE FROM GRADE.
4. SITE AVERAGE LUMINANCE LEVEL IS 3.29 fc.
5. STACK WARNING LIGHTS ARE PROVIDED AS REQUIRED BY FEDERAL AVIATION ADMINISTRATION (FAA) REGULATIONS.
6. THIS DRAWING SHOWS THE LUMINANCE LEVELS AT THE SITE AS NUMERIC FOOT CANDLE VALUES THE LOWEST LEVEL OF ILLUMINATION HAS A READING OF 0.05 fc.
7. THIS DRAWING DEPICTS THE ESTIMATE LUMINANCE OR EXISTENCE AT VARIOUS POINT IN AN AREA, FOR EXAMPLE 0.50fc. REPRESENTS A HALF OF FOOT CANDLE.
8. EXTERNAL LIGHTING SHALL OPERATE FROM DUSK TILL DAWN.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

PLANT NORTH / TRUE NORTH 20.72°

60' 30' 0 60' 120'

1"=60'

REVISION NOTES:

2	ISSUED FOR PERMITTING
1	GENERAL REVISIONS
Ø	ISSUED FOR PERMITTING

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SIGNED DAVID J. KOEHLER

DATE 08/25/16 REG NO. 25295

STATE OF CONNECTICUT DAVID J. KOEHLER 08/25/2016 LICENSED PROFESSIONAL ENGINEER

ISSUED FOR PERMITTING

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Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	08/25/16	C.01950	PERMIT ISSUE	BPA	PKG	KAH		TK	MED
1	08/12/16	C.01950	GENERAL REVISIONS	BPA	PKG			TK	MED
Ø	08/01/16	C.01950	PERMIT ISSUE	BPA	PKG	KAH		TK	MED

REVISION

BRIDGEPORT HARBOR UNIT 5

PLANT LAYOUT
SITE LIGHTING PLAN -
ILLUMINATION POINT ANALYSIS

LIGHTING ELECTRICAL

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
BRENNAN ANDERSON	PRAPON KUMTONG	KENT HESSLER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	TAKEHARU KOGA	MIKE DRAKE

VENDOR NO. 191547-DE-2601

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 2

LEGENDS/SYMBOL KEYS:

Luminaire Schedule			
Symbol	Qty	Label	Description
	24	LED2	HOLOPHANE PLED2 18L 5K AS UN NA G L5H PETROLUX 2 LED WET LOCATION
	111	LED4	HOLOPHANE W4G LED 10C 1000 40K T3M W4G LED, 10 LED'S, 1 AMP DRIVE
	20	LED5	HOLOPHANE W4G LED 20C 1000 40K T3M W4G LED, 20 LED'S, 1 AMP DRIVE
	17	P1	(1) LED1 MGLED 9 4K AX A L X X - Street Light
	11	P2	(2) LED1 MGLED 9 4K AX A L X X - Street Light
	4	P3	(1) LED3 PMLED 2 5K 07A 66 - Flood Light

Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
CalcPts_Site Area	Illuminance	Fc	3.29	37.69	0.03
Outside Boundary	Illuminance	Fc	0.24	25.95	0.00

CONTOUR LEVELS
= 10.0 fc
= 5.00 fc
= 2.00 fc
= 0.50 fc
= 0.05 fc
fc - FOOT CANDLE

DESIGN NOTES:

1. THIS DRAWING REFLECTS LIGHTING LEVELS IN A CONTOUR METHOD
2. FIXTURE MOUNTING HEIGHT ARE APPROXIMATELY.
3. LIGHTING FIXTURE MOUNTING HEIGHTS ARE FROM GRADE.
4. SITE AVERAGE LUMINANCE LEVEL IS 3.29 fc.
5. STACK WARNING LIGHTS ARE PROVIDED AS REQUIRED BY FEDERAL AVIATION ADMINISTRATION (FAA) REGULATIONS.
6. THIS DRAWING SHOWS THE LUMINANCE LEVELS AT THE SITE AS NUMERIC FOOT CANDLE VALUES THE LOWEST LEVEL OF ILLUMINATION HAS A READING OF 0.05 fc.
7. THIS DRAWING DEPICTS THE ESTIMATE LUMINANCE OR EXISTENCE AT VARIOUS POINT IN AN AREA, FOR EXAMPLE 0.50fc. REPRESENTS A HALF OF FOOT CANDLE.
8. EXTERNAL LIGHTING SHALL OPERATE FROM DUSK TILL DAWN.

REFERENCES:

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
2	08/25/16	C.01950	PERMIT ISSUE	BPA	PKG	KAH		TK	MED
1	08/12/16	C.01950	GENERAL REVISIONS	BPA	PKG			TK	MED
0	08/01/16	C.01950	PERMIT ISSUE	BPA	PKG	KAH		TK	MED

REVISION

ISSUED FOR PERMITTING
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2	ISSUED FOR PERMITTING
1	GENERAL REVISIONS
0	ISSUED FOR PERMITTING

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SIGNED DAVID J. KOEHLER
DATE 08/25/16 REG NO. 25295

STATE OF CONNECTICUT DAVID J. KOEHLER No. 25295 LICENSED PROFESSIONAL ENGINEER

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

BRIDGEPORT HARBOR UNIT 5
PLANT LAYOUT
SITE LIGHTING PLAN -
ILLUMINATION CONTOURS ANALYSIS

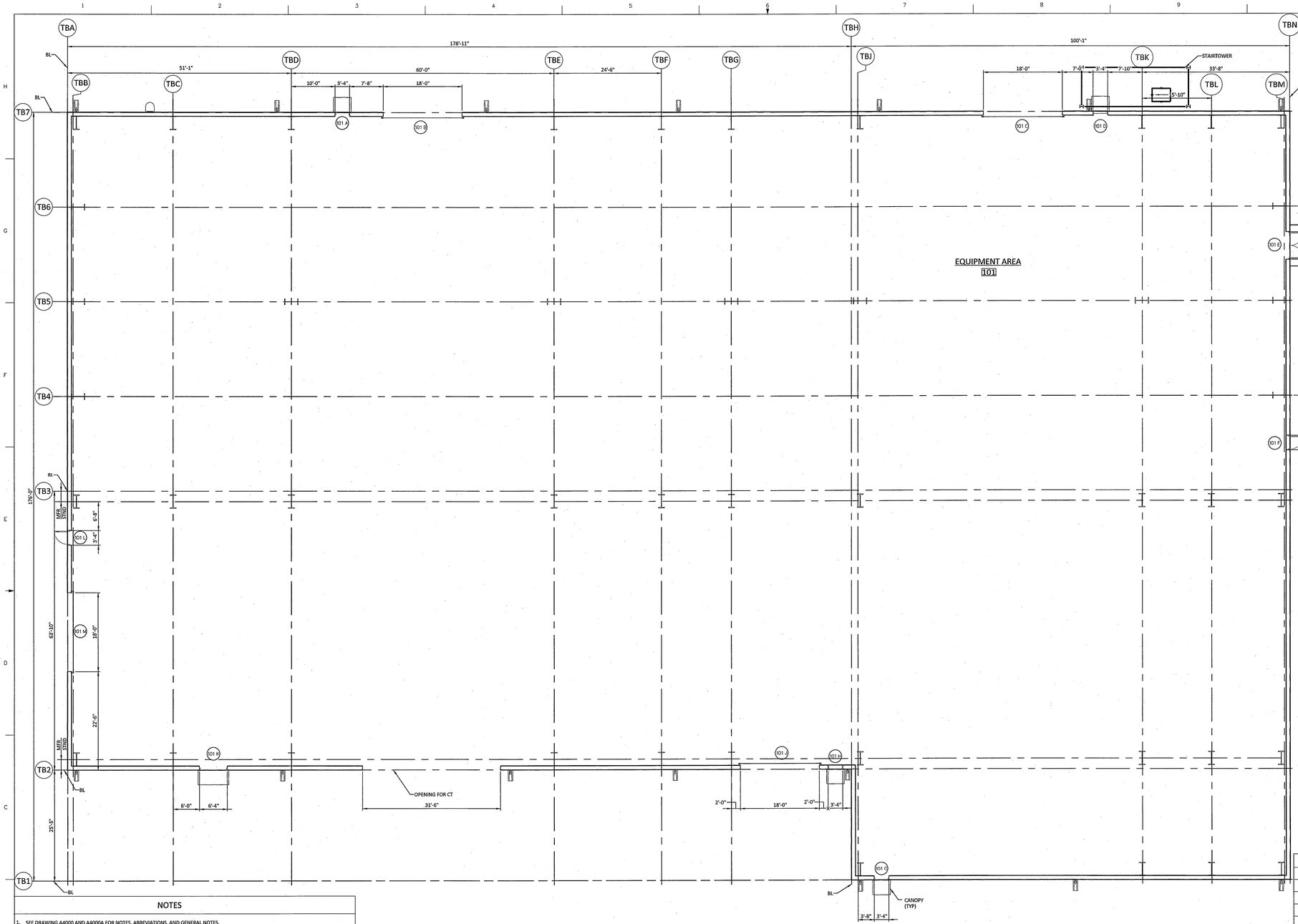
LIGHTING ELECTRICAL

PROJECT ENGINEERING DIVISION
PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
BRENNAN ANDERSON	PRAPON KUMTONG	KENT HESSLER
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	TAKEHARU KOGA	MIKE DRAKE

VENDOR NO. 191547-DE-2602

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 2



GROUND FLOOR PLAN EL 18'-6"
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CEILING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

C. STANDARD PARTITION - 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - TERMINATE GYPSUM PANELS AT 6" ABOVE CEILING - GYPSUM PANELS TAPED AND READY FOR FINISH.

D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

1. SEE DRAWING A4000 AND A4000A FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
2. COLLATERAL LOADS: IN ADDITION TO THE SPECIFIED LOADS, COLLATERAL LOADS SHALL BE INCLUDED IN THE BUILDING DESIGN. COLLATERAL LOADS SHALL CONSIST OF A UNIFORM LOAD AND A CONCENTRATED PHANTOM LOAD APPLIED TO THE BUILDING FLOOR.

   UNIFORM COLLATERAL LOADS SHALL BE CONSIDERED AS DEAD LOAD AND INCLUDED IN THE CALCULATION OF LATERAL SEISMIC LOADS. HOWEVER, UNIFORM COLLATERAL LOADS SHALL NOT BE CONSIDERED TO RESIST UPLIFT.

   CONCENTRATED PHANTOM COLLATERAL LOADS SHALL BE APPLIED TO EACH MEMBER (FRAME MEMBER, PURLIN, ETC.). THESE CONCENTRATED LOADS SHALL BE APPLIED TO MULTIPLE LOCATIONS ON THE MEMBER SO THE SUPPLIER SHALL CAUSE BOTH MAXIMUM MOMENT AND/OR MAXIMUM SHEAR. THESE CONCENTRATED LOADS SHALL BE CONSIDERED FOR SIZING THE BEAM AND CONNECTIONS ONLY AND NOT CARRIED OVER FOR COLUMN DESIGN.

   - UNIFORM LOAD ON ALL ROOF AND FLOOR MEMBERS 20 PSF.
   - UNIFORM LOAD ON ALL STAIRS AND PLATFORMS 100 PSF
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL STAIRS, LADDERS, AND PLATFORMS 1 KIP.
3. HVAC, ELECTRICAL, AND MECHANICAL EQUIPMENT AND PIPING PENETRATIONS WILL BE ADDED DURING THE DESIGN PHASE OF THE PROJECT AND ARE THUS NOT CURRENTLY SHOWN ON THE DRAWINGS. PENETRATION SIZES AND LOCATION SHOWN ARE PRELIMINARY. PENETRATIONS SHOULD BE CONSIDERED IN THE BID PACKAGE.
4. COLUMN ROW DIMENSIONS MAY BE ADJUSTED BY THE PEMB MANUFACTURER TO ACCOUNT FOR DESIGNED GIRT AND STEEL SIZE.
5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1000 AND 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
6. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø ISSUED FOR PERMITTING

ISSUED FOR PERMITTING

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8' 4' 0 8' 16'
1/8"=1'-0"

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

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

SEAL:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01958	PERMITTING	MED	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
TURBINE/GENERATOR ENCLOSURE
GROUND FLOOR PLAN EL 18'-6"

PLAN DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

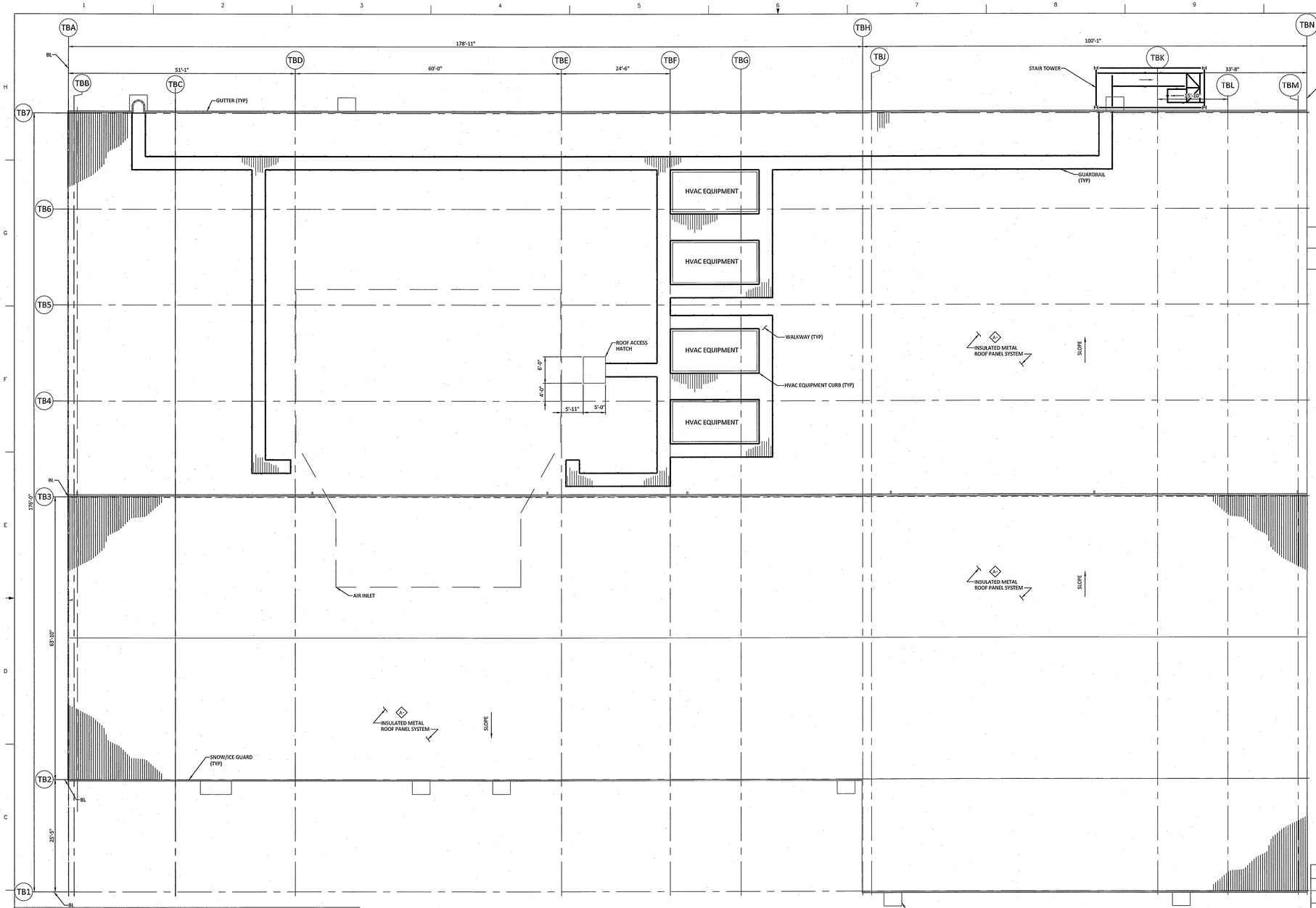
191547-5BSA-A4001

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



ROOF PLAN
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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   - UNIFORM LOAD ON ALL ROOF AND FLOOR MEMBERS 20 PSF.
   - UNIFORM LOAD ON ALL STAIRS AND PLATFORMS 100 PSF
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL STAIRS, LADDERS, AND PLATFORMS 1 KIP.
3. HVAC, ELECTRICAL, AND MECHANICAL EQUIPMENT AND PIPING PENETRATIONS WILL BE ADDED DURING THE DESIGN PHASE OF THE PROJECT AND ARE THUS NOT CURRENTLY SHOWN ON THE DRAWINGS. PENETRATION SIZES AND LOCATION SHOWN ARE PRELIMINARY. PENETRATIONS SHOULD BE CONSIDERED IN THE BID PACKAGE.
4. COLUMN ROW DIMENSIONS MAY BE ADJUSTED BY THE PEMB MANUFACTURER TO ACCOUNT FOR DESIGNED GIRT AND STEEL SIZE.
5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1000 AND 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
6. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø ISSUED FOR PERMITTING

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8' 4' 0 8' 16'
1/8"=1'-0"

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DWG SCALE: 1/8"=1'-0"
SEAL:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	MED	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
TURBINE/ GENERATOR ENCLOSURE
ROOF PLAN

PLAN DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

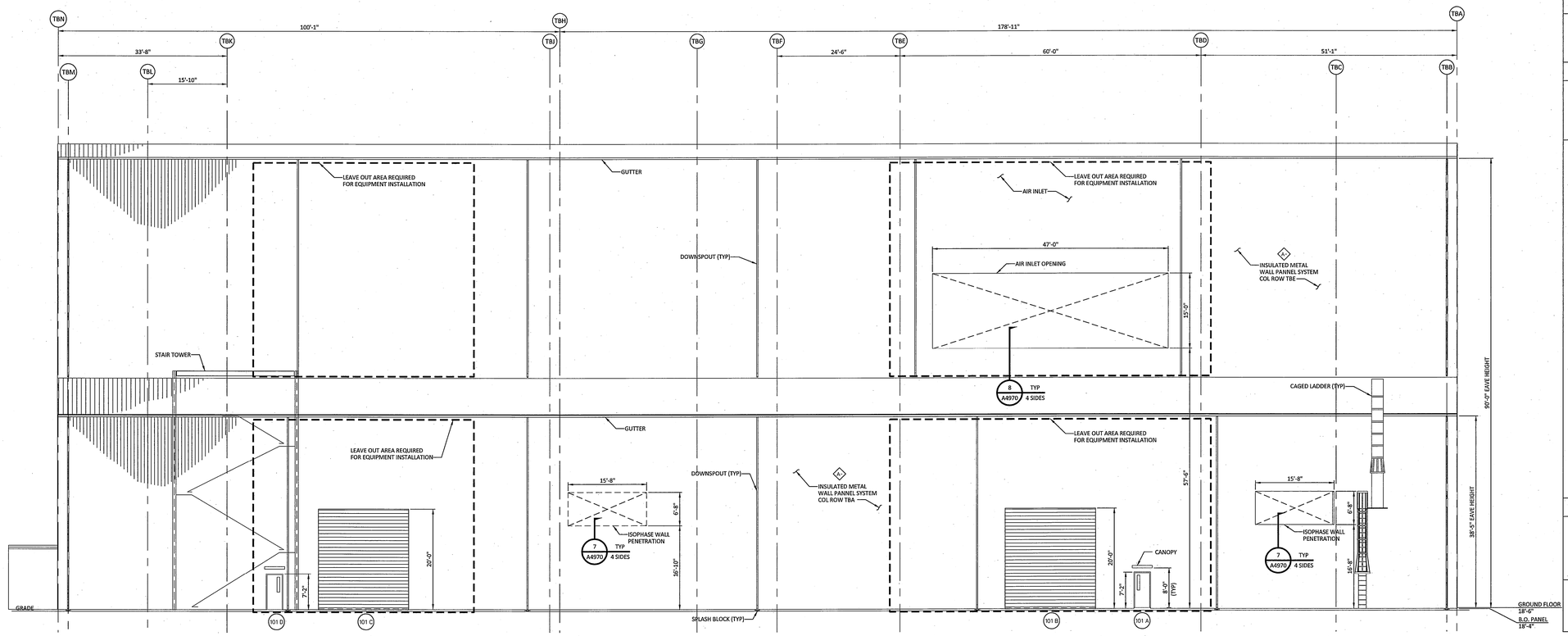
VENDOR NO.
191547-5BSA-A4002

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



NORTH ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS. .

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
TURBINE/ GENERATOR ENCLOSURE
NORTH ELEVATION

ELEVATION DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

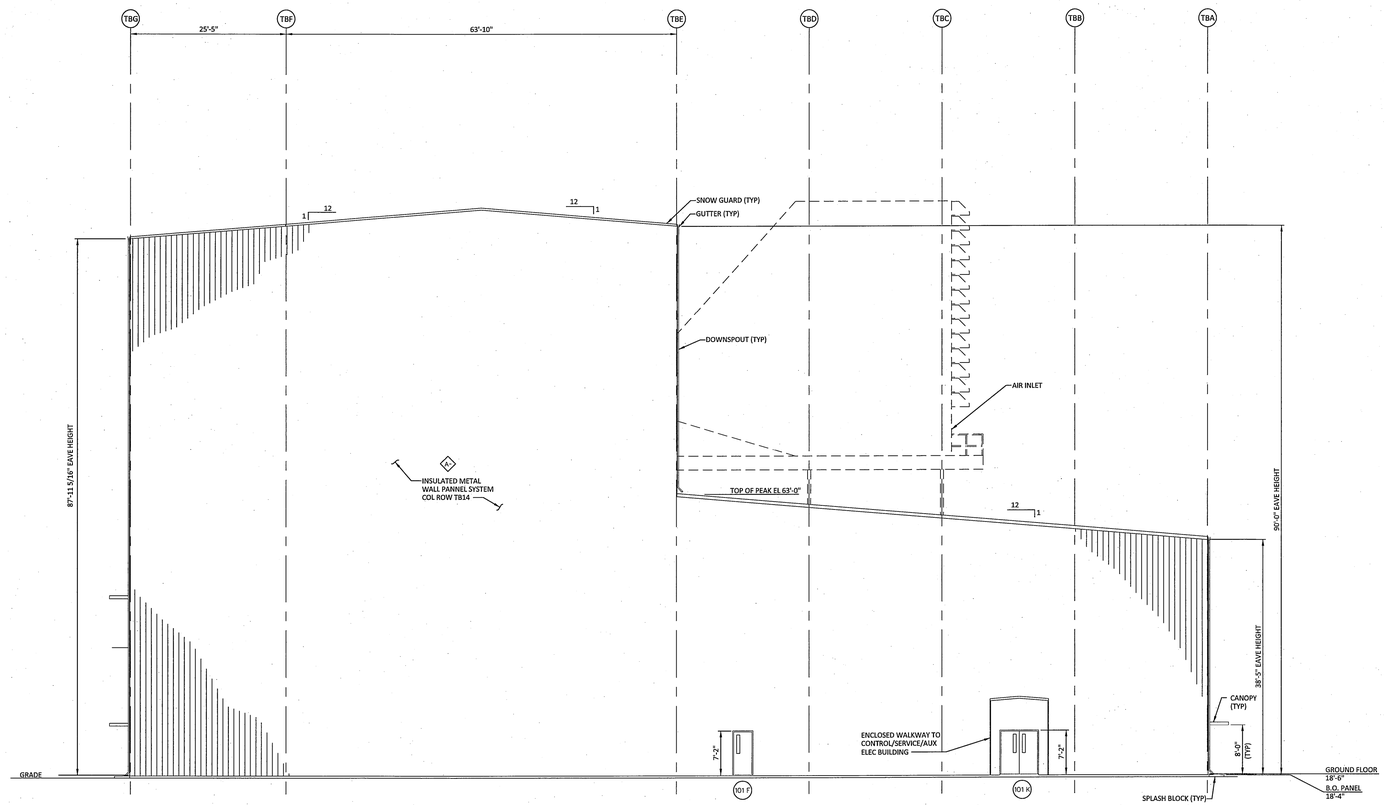
191547-5BSA-A4005

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



EAST ELEVATION

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

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

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E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

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ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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1/8"=1'-0"

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

SEAL:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	CJ8195Ø	PERMITTING	MED	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
TURBINE/ GENERATOR ENCLOSURE
EAST ELEVATION

ELEVATION — DESIGN – CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

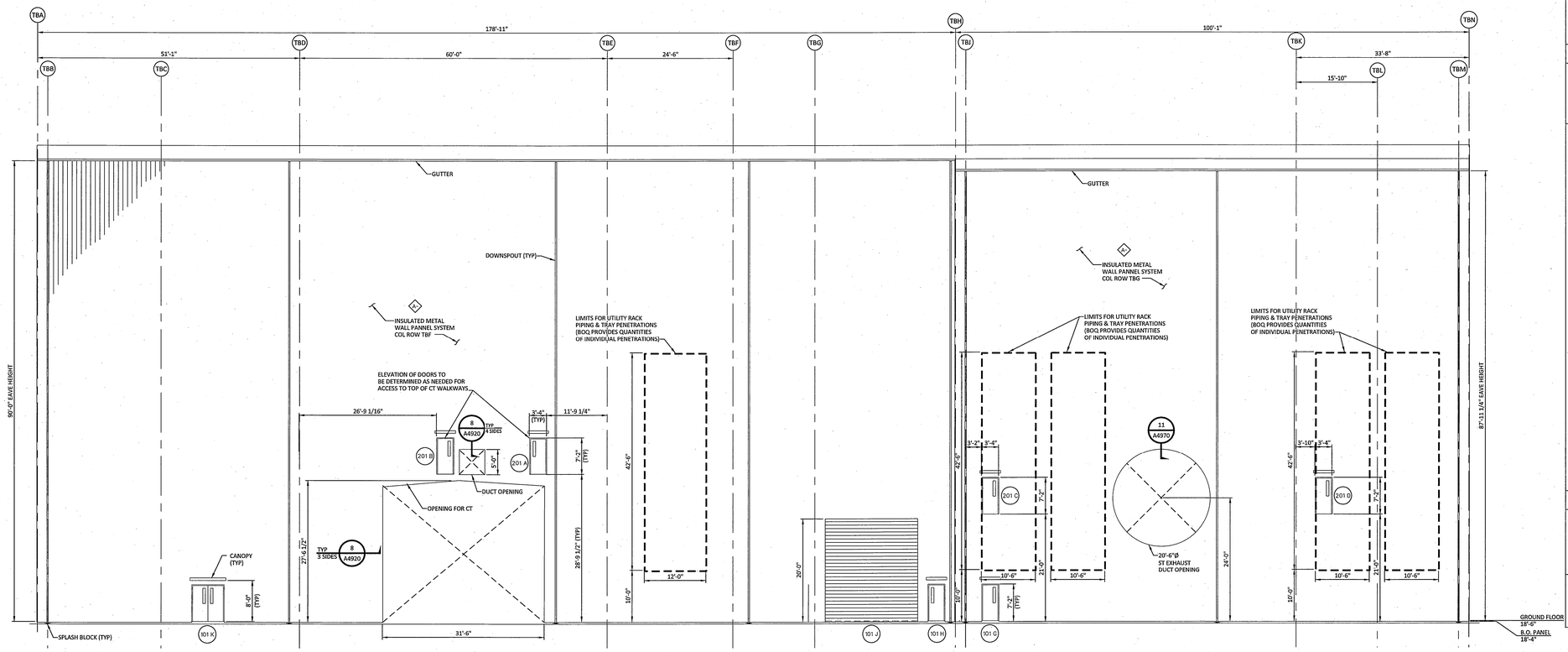
191547-5BSA-A4006

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: O



SOUTH ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

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F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

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NOTES

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REVISION

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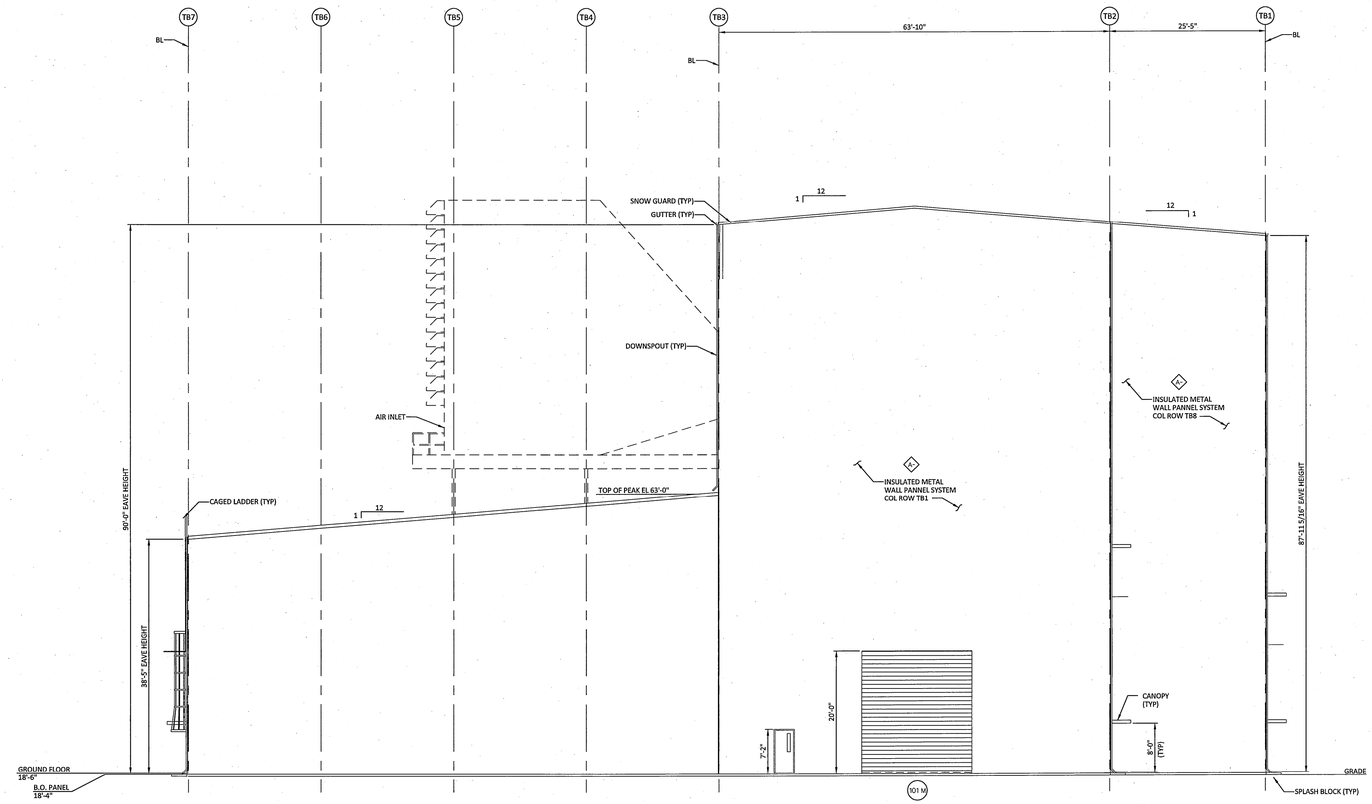
VENDOR NO.
191547-5BSA-A4007

ANSI E SIZE

CONT. ____ MECH. ____ SPDN. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



WEST ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FR-2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

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ROOF TYPE LIST

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   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL STAIRS, LADDERS, AND PLATFORMS 1 KIP.
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TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	CØ1950	ISSUED FOR PERMITTING						

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8' 4' 0 8' 16'
1/8"=1'-0"

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BLACK & VEATCH
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DWG SCALE: 1/8"=1'-0"

SEAL:

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
TURBINE/ GENERATOR ENCLOSURE
WEST ELEVATION

ELEVATION — DESIGN - CIVIL ARCH

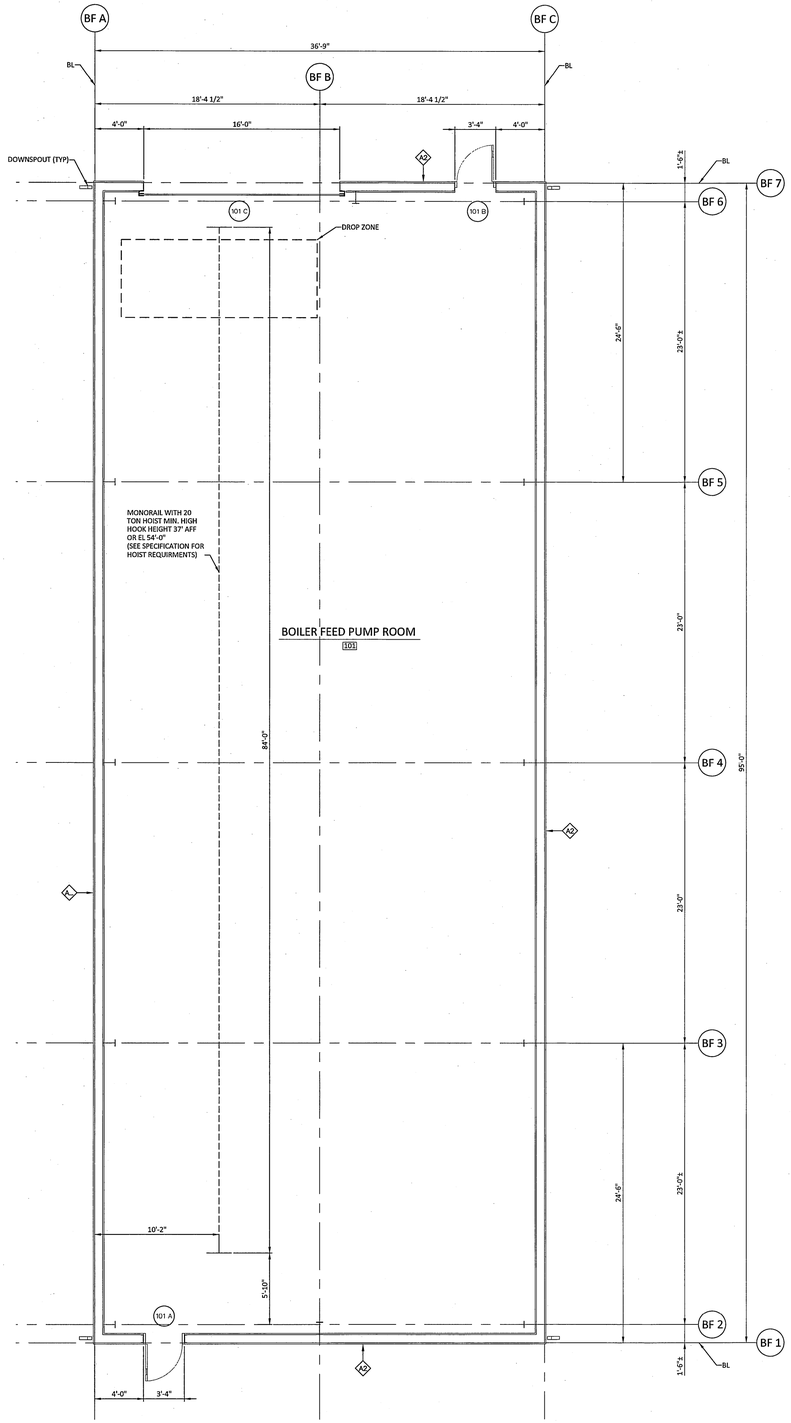
PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

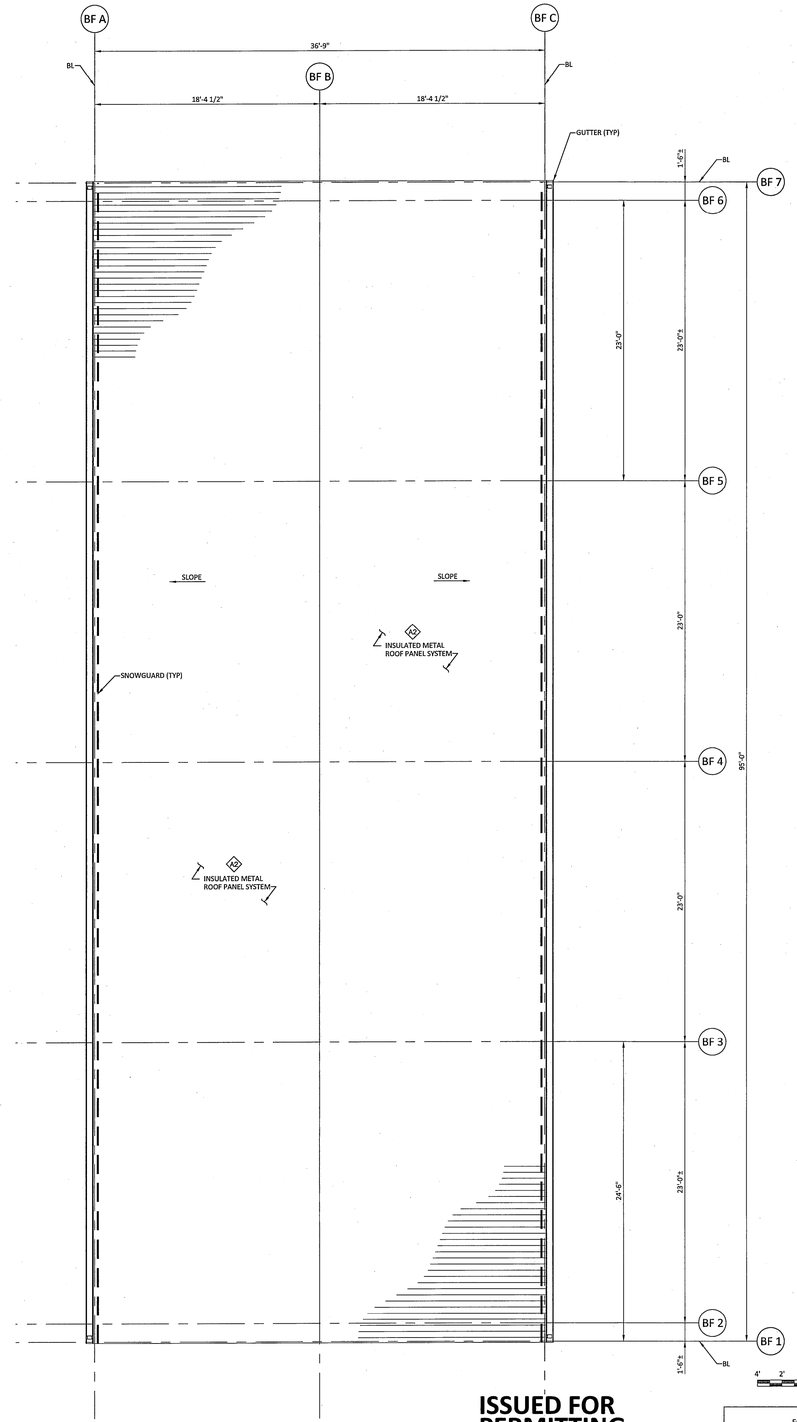
DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSA-A4008

ANSI E SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



FLOOR PLAN EL 18'-6"
SCALE: 1/4" = 1'-0"



ROOF PLAN
SCALE: 1/4" = 1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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Ø	Ø8/25/16	C.21958	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STURCTURES
BOILER FEEDWATER PUMP ENCLOSURE
FLOOR & ROOF PLANS

PLAN DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

ISSUED FOR PERMITTING

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DWG SCALE: 1/4"=1'-0"

SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSZ-A4210

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

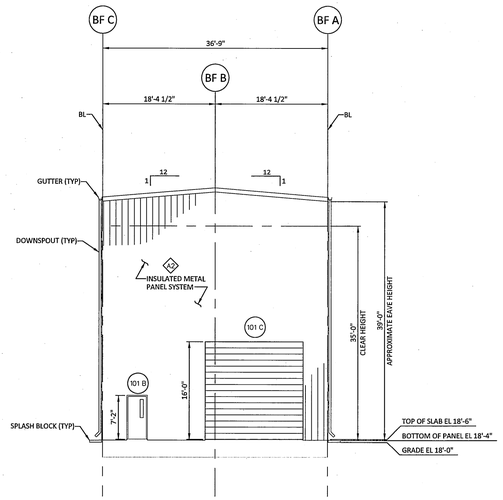
Ø ISSUED FOR PERMITTING

ANSI E SIZE

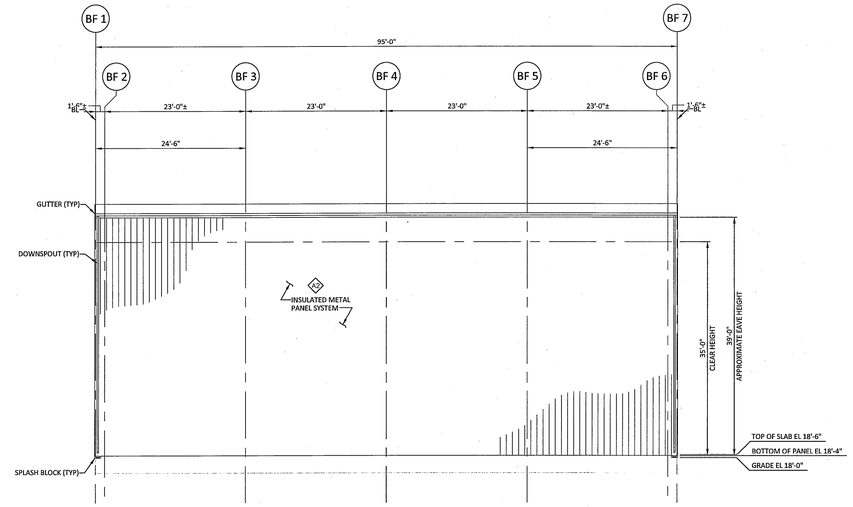
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

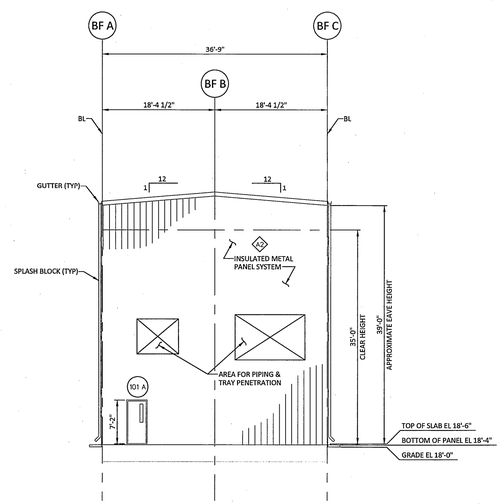
VERSION: 0



NORTH ELEVATION
SCALE: 1/8"=1'-0"



EAST ELEVATION
SCALE: 1/8"=1'-0"



SOUTH ELEVATION
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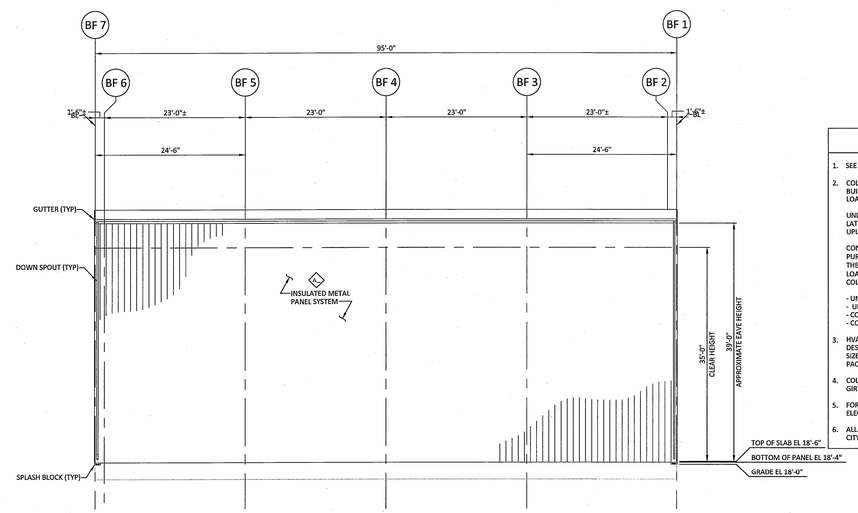

WEST ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

A2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

A2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; WALL TYPE

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ROOF TYPE LIST

A2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; ROOF TYPE

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Ø	08/25/16	C.01950	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
BOILER FEEDWATER PUMP ENCLOSURE
ELEVATIONS

ELEVATIONS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

ISSUED FOR PERMITTING

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8' 4' 0 8' 16'
1/8"=1'-0"

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REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSZ-A4211

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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CONT. ____ MECH. ____ SPON. ____
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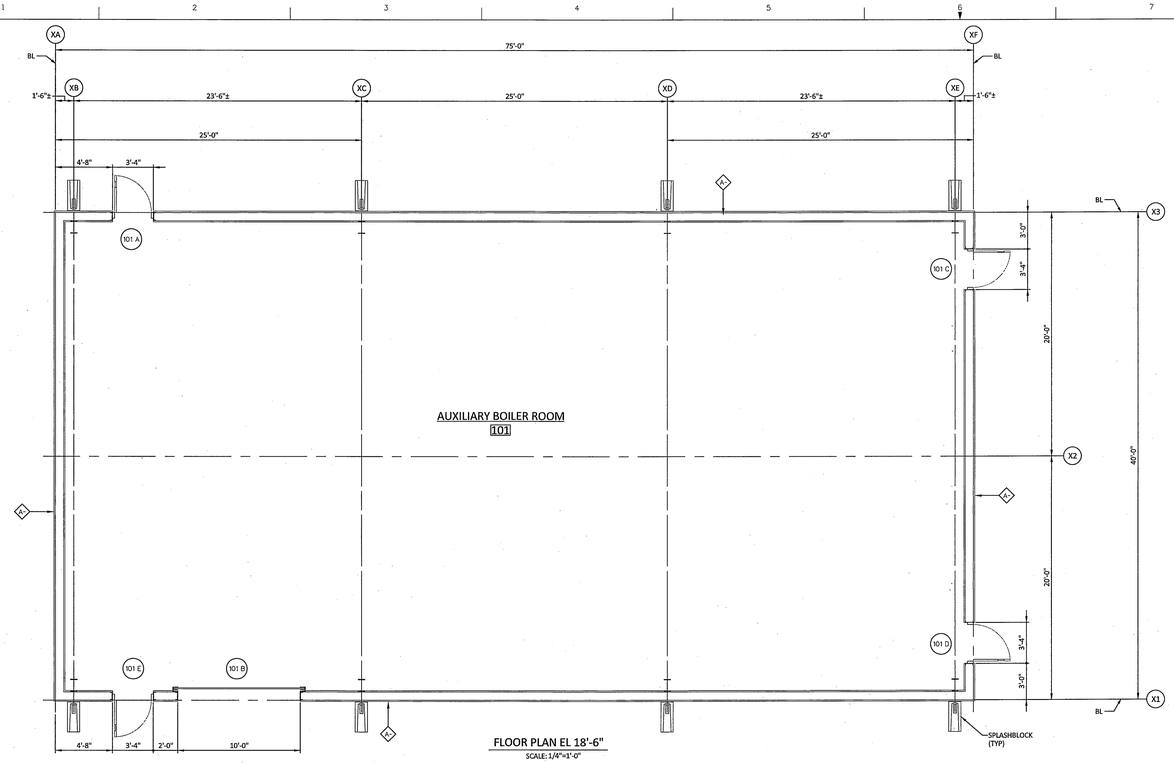
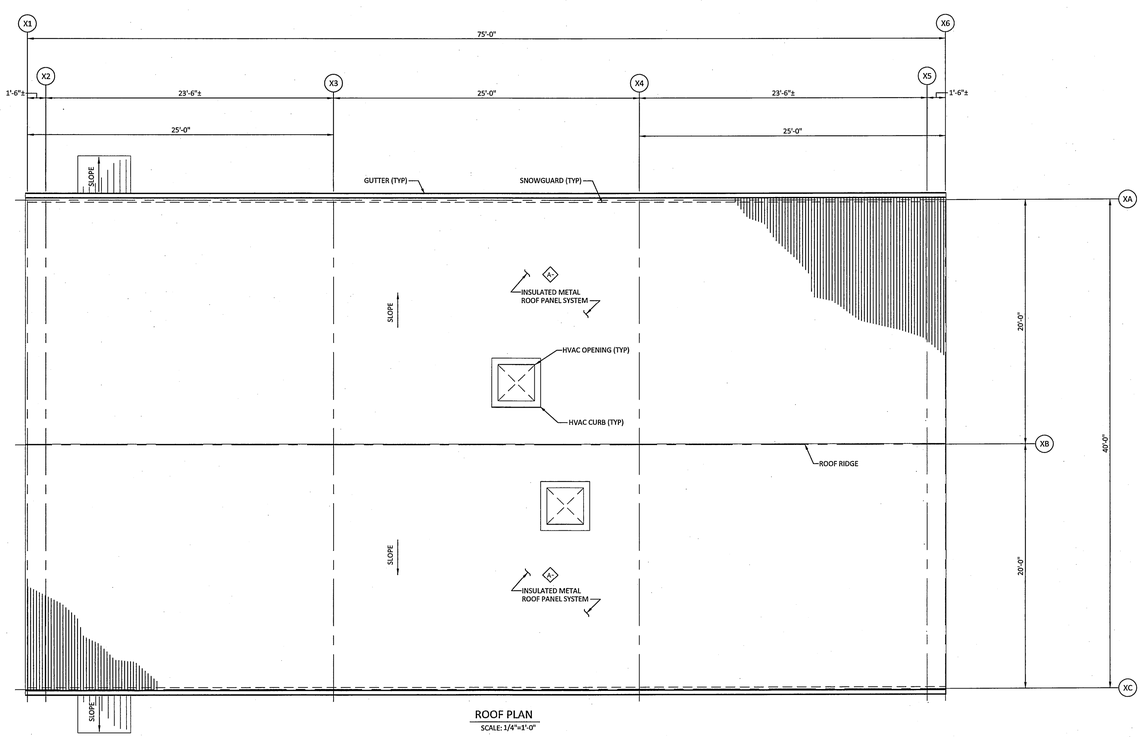
SPONSOR: T. MURPHY

VERSION: 0



FLOOR PLAN EL 18'-6"

SCALE:1/4"=1'-0"



ROOF PLAN

SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

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ROOF TYPE LIST

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0	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5

BUILDING & STRUCTURES
AUXILIARY BOILER
AUX BOILER ENCL - FLOOR & ROOF PLANS

PLANS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

ISSUED FOR PERMITTING

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DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSX-A4301

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

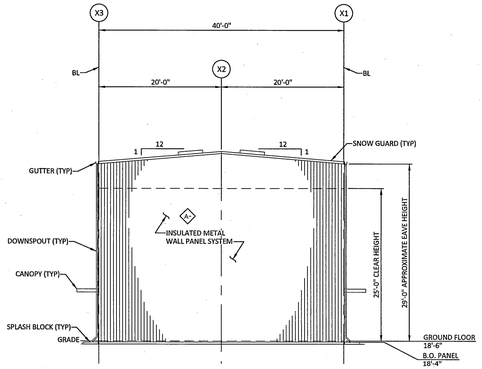
0	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

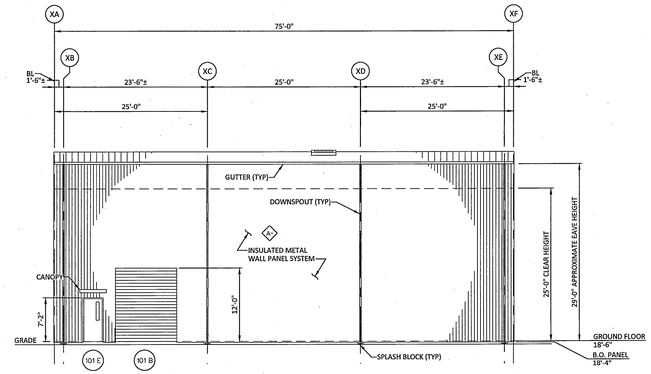
SPONSOR: T. MURPHY

VERSION: 0



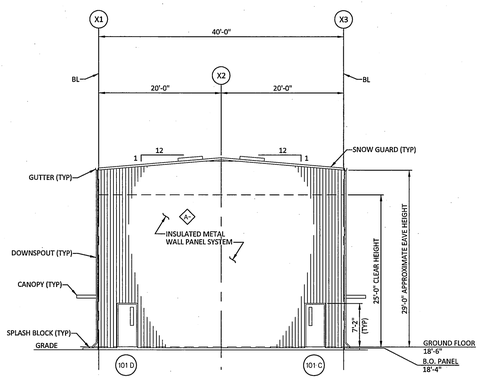
WEST ELEVATION

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



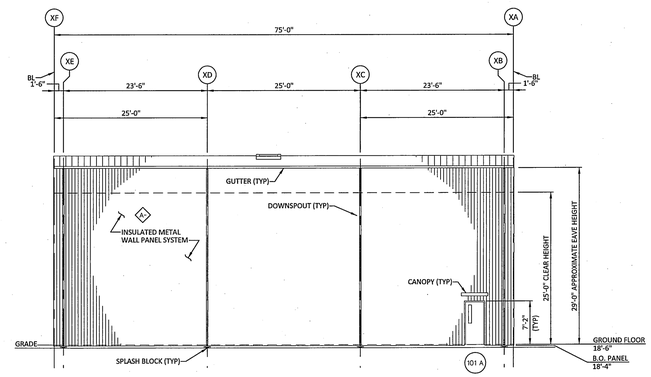
SOUTH ELEVATION

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



EAST ELEVATION

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



NORTH ELEVATION

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

EXTERIOR WALL TYPE LIST

X-X
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

X-X
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CEILING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

C. STANDARD PARTITION - 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

X-X
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

1. SEE DRAWING A4000 FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
2. COLLATERAL LOADS: IN ADDITION TO THE SPECIFIED LOADS, COLLATERAL LOADS SHALL BE INCLUDED IN THE BUILDING DESIGN. COLLATERAL LOADS SHALL CONSIST OF A UNIFORM LOAD AND A CONCENTRATED PHANTOM LOAD APPLIED TO THE BUILDING FLOOR.

   UNIFORM COLLATERAL LOADS SHALL BE CONSIDERED AS DEAD LOAD AND INCLUDED IN THE CALCULATION OF LATERAL SEISMIC LOADS. HOWEVER, UNIFORM COLLATERAL LOADS SHALL NOT BE CONSIDERED TO RESIST UPLIFT.

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   - UNIFORM LOAD ON ALL ROOF AND FLOOR MEMBERS 20 PSF.
   - UNIFORM LOAD ON ALL STAIRS AND PLATFORMS 100 PSF
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3. HVAC, ELECTRICAL, AND MECHANICAL EQUIPMENT AND PIPING PENETRATIONS WILL BE ADDED DURING THE DESIGN PHASE OF THE PROJECT AND ARE THUS NOT CURRENTLY SHOWN ON THE DRAWINGS. PENETRATION SIZES AND LOCATION SHOWN ARE PRELIMINARY. PENETRATIONS SHOULD BE CONSIDERED IN THE BID PACKAGE.
4. COLUMN ROW DIMENSIONS MAY BE ADJUSTED BY THE PEMB MANUFACTURER TO ACCOUNT FOR DESIGNED GIRT AND STEEL SIZE.
5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1000 AND 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
6. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	Ø8/25/16	C.Ø1958	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
AUXILIARY BOILER
AUX BOILER ENCL - ELEVATIONS

ELEVATIONS — DESIGN - CIVIL ARCH

8' 4' 0 8' 16'
1/8"=1'-0"

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

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

SEAL:

VENDOR NO.
191547-5BSX-A4302

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

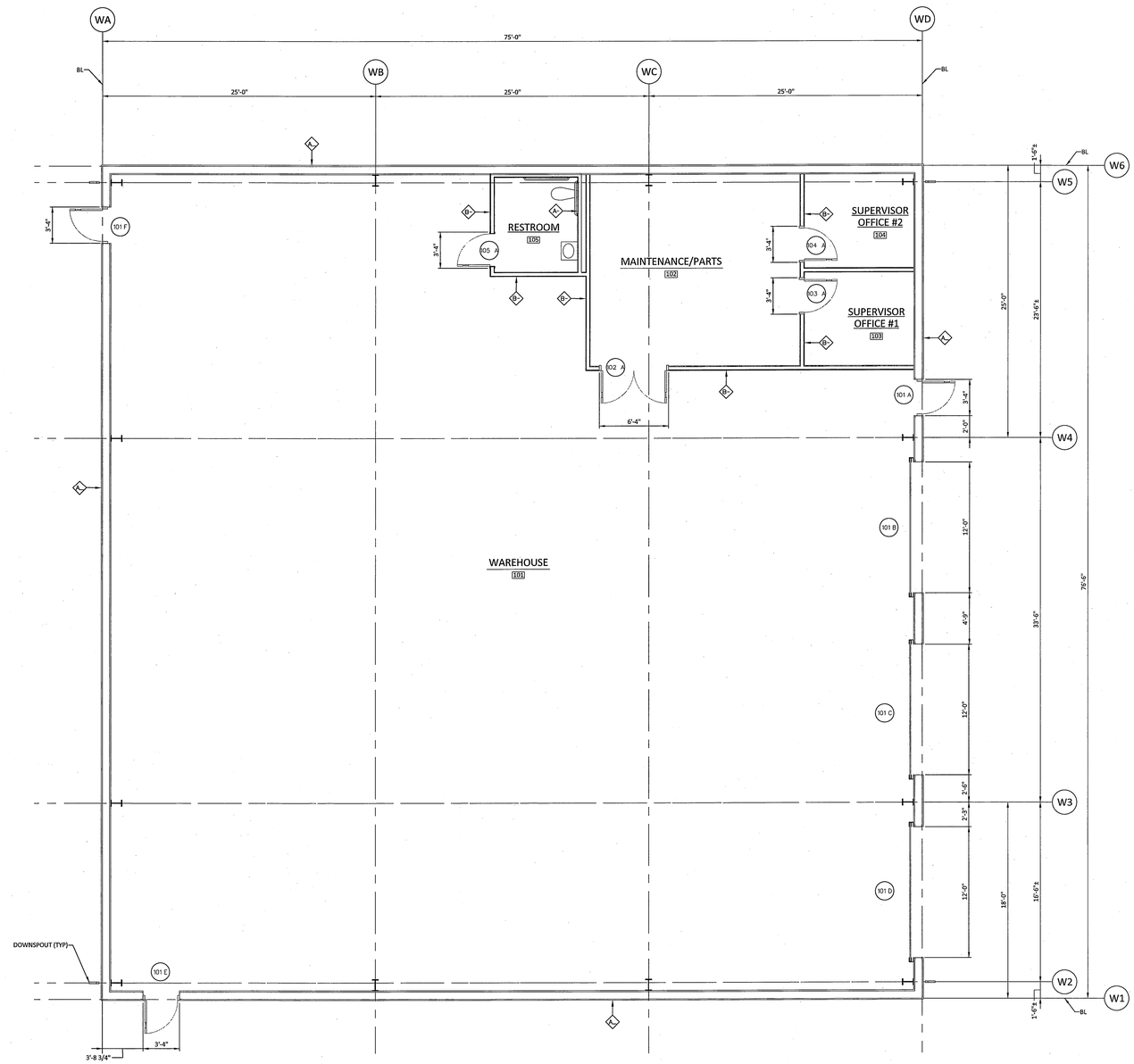
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL. ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



GROUND FLOOR PLAN EL 18'-6"
SCALE: 1/4" = 1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

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INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

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Ø	Ø8/25/16	C.Ø1958	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTRES
WAREHOUSE/MAINTENANCE BUILDING
FLOOR PLAN

PLAN — DESIGN – CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

4' 2' 0 4' 8'
1/4"=1'-0"

ISSUED FOR PERMITTING

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BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DWG SCALE: 1/4"=1'-0"

SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5BSR-A4401

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

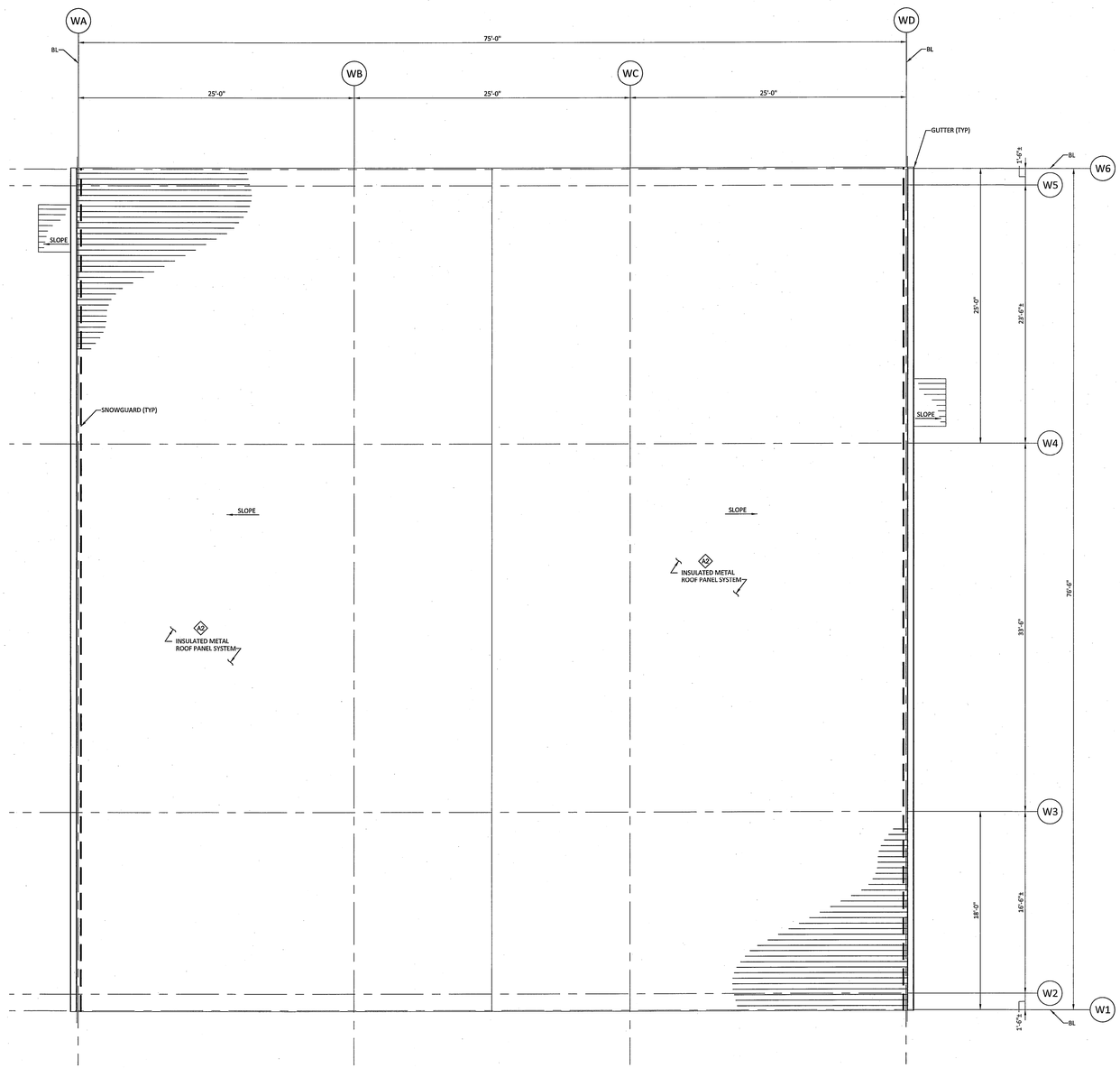
Ø ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



ROOF PLAN
SCALE: 1/4" = 1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

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Ø	Ø8/25/16	C.Ø1958	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
WAREHOUSE/MAINTENANCE BUILDING
ROOF PLAN

PLAN DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

4' 2' 0 4' 8'
1/4"=1'-0"

ISSUED FOR PERMITTING

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Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

DWG SCALE: 1/4"=1'-0"

SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	MEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5BSR-A4402

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

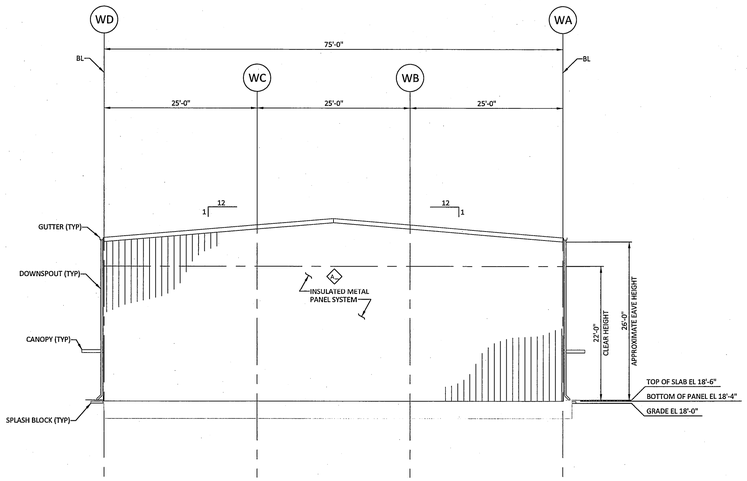
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

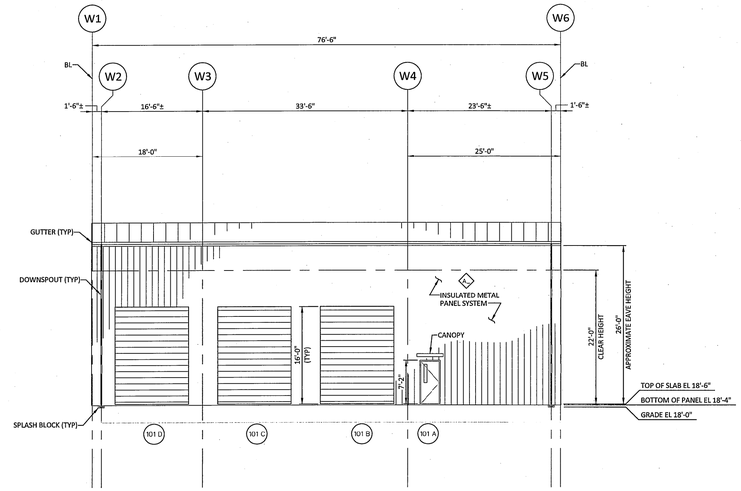
CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



NORTH ELEVATION
SCALE: 1/8"=1'-0"



EAST ELEVATION
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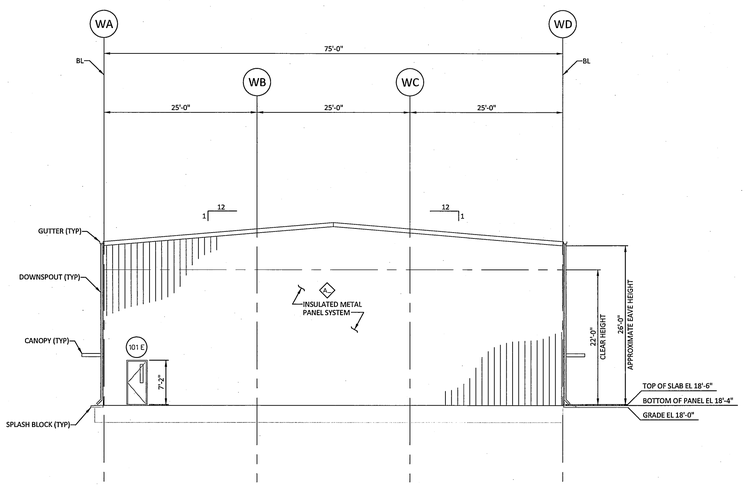
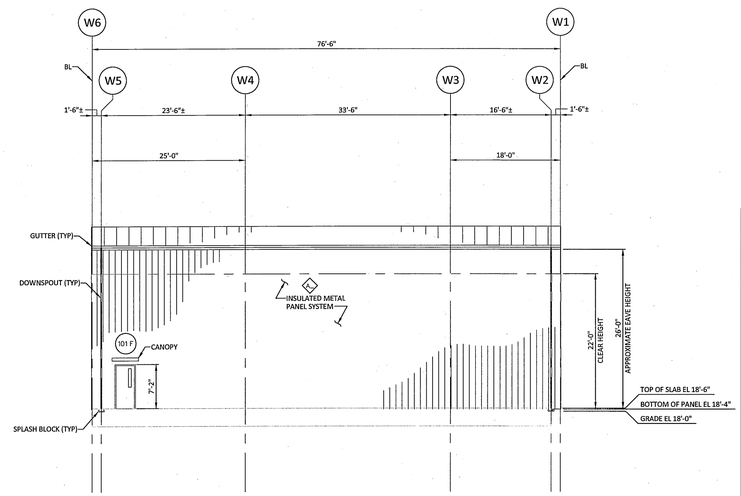


SOUTH ELEVATION
SCALE: 1/8"=1'-0"



WEST ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

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INTERIOR WALL TYPE LIST

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ROOF TYPE LIST

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Ø	Ø8/25/16	C.01950	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
WAREHOUSE/MAINTENANCE BUILDING
ELEVATIONS

ELEVATIONS — DESIGN – CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

8' 4' 0 8' 16'
1/8"=1'-0"

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSR-A4403

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

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

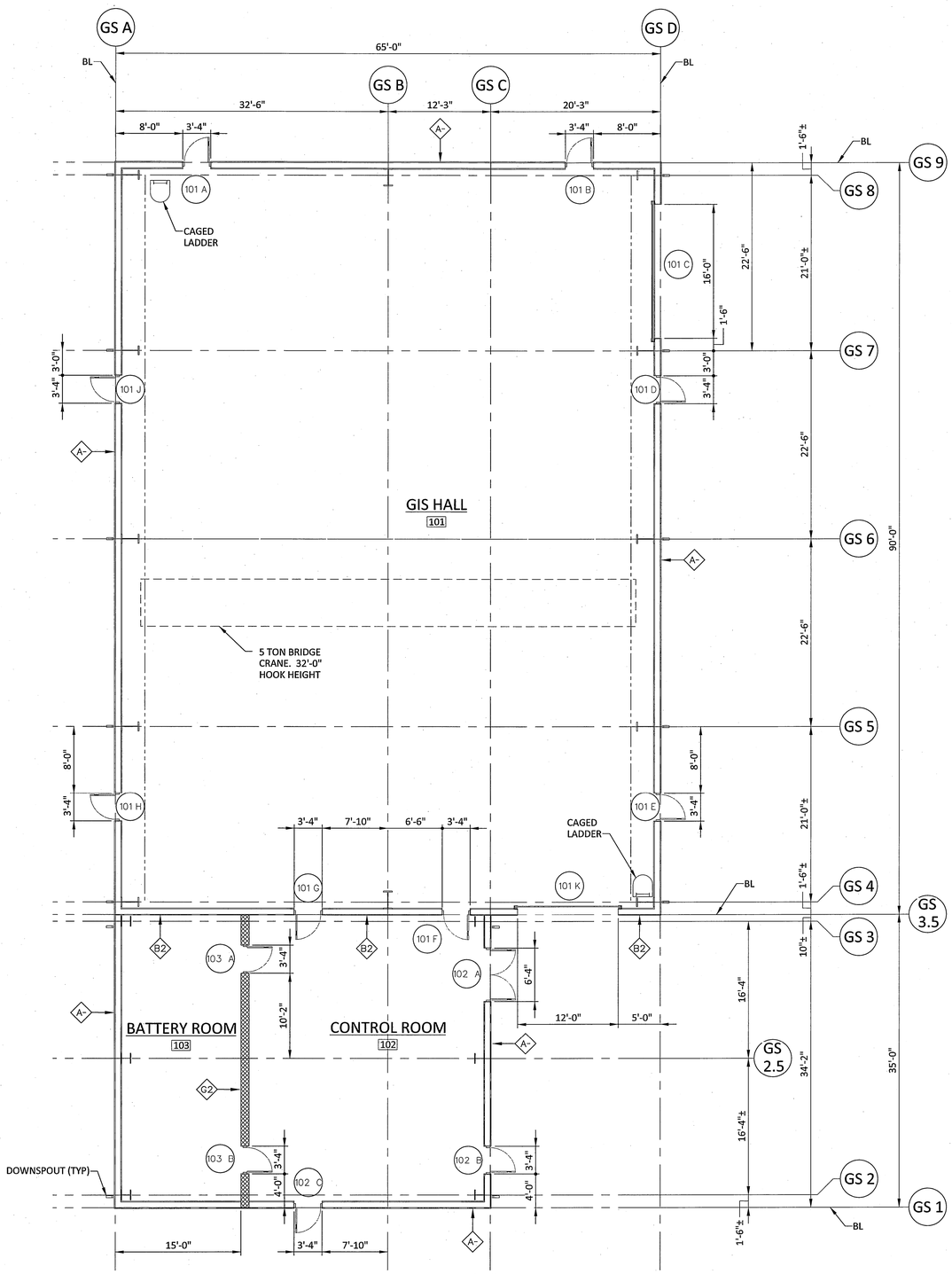
SEAL:

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



GROUND FLOOR PLAN EL 18'-6"

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

NOTES

1. SEE DRAWING 191547-5UUU-A4000 FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
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   - UNIFORM LOAD ON ALL STAIRS, LANDINGS AND PLATFORMS 100 PSF.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
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3. HVAC, ELECTRICAL, AND MECHANICAL EQUIPMENT AND PIPING PENETRATIONS WILL BE ADDED DURING THE DESIGN PHASE OF THE PROJECT AND ARE THUS NOT CURRENTLY SHOWN ON THE DRAWINGS. PENETRATIONS SIZES AND LOCATIONS SHOWN ARE PRELIMINARY. PENETRATIONS SHOULD BE CONSIDERED IN THE BID PACKAGE.
4. COLUMN ROW DIMENSIONS MAY BE ADJUSTED BY THE PEMB MANUFACTURER TO ACCOUNT FOR DESIGNED GIRT AND STEEL SIZE.
5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
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EXTERIOR WALL TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/FIBER GLASS INSULATION /GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

B. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - TWO HOUR FIRE RATED INSULATED: OUTER PANEL/MINERAL WOOL INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; WALL TYPE

A. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

B. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - TWO HOUR FIRE RATED, INSULATED: LINER PANEL/MINERAL WOOL INSULATION/GIRT/LINER PANEL - LNER PANEL IN CONTROL ROOM AND BATTERY ROOM, FULL HEIGHT TO STRUCTURE ABOVE. LINER PANEL IN GIS HALL, 8 FEET HIGH

ROOF TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GIS BUILDING
FLOOR PLAN

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

ISSUED FOR PERMITTING

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1/8"=1'-0"

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MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO. 191547-5BSE-A4450

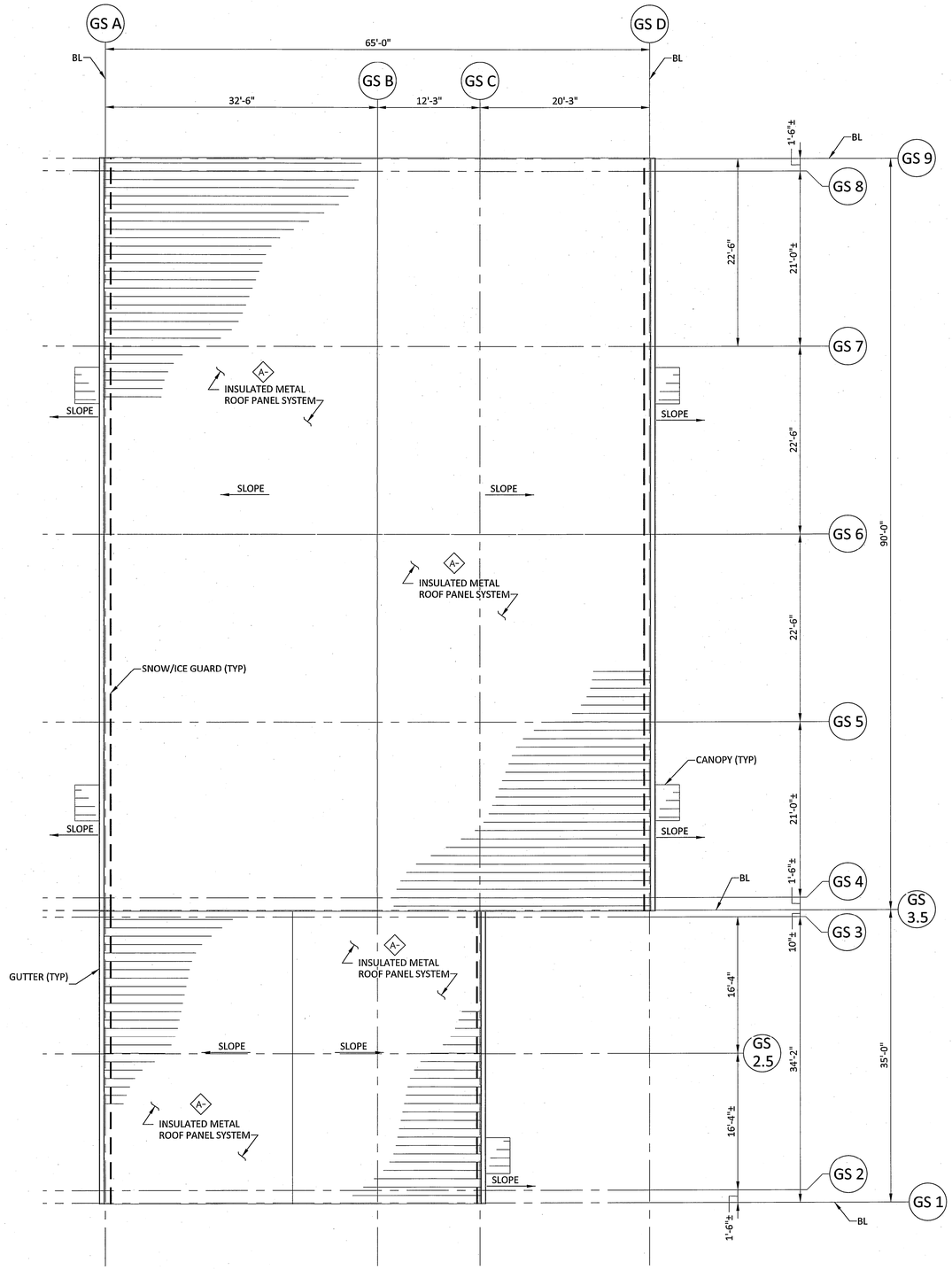
TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø ISSUED FOR PERMITTING

ANSI D SIZE — CONT. ___ MECH. ___ SPON. ___ ELEC. ___ CIVIL ___ OTHER ___

SPONSOR: T. MURPHY — VERSION: 0



ROOF PLAN

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

NOTES

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EXTERIOR WALL TYPE LIST

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A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/FIBER GLASS INSULATION /GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

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INTERIOR WALL TYPE LIST

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ROOF TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GIS BUILDING
ROOF PLAN

PLAN — DESIGN - CIVIL ARCH

ISSUED FOR PERMITTING

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PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

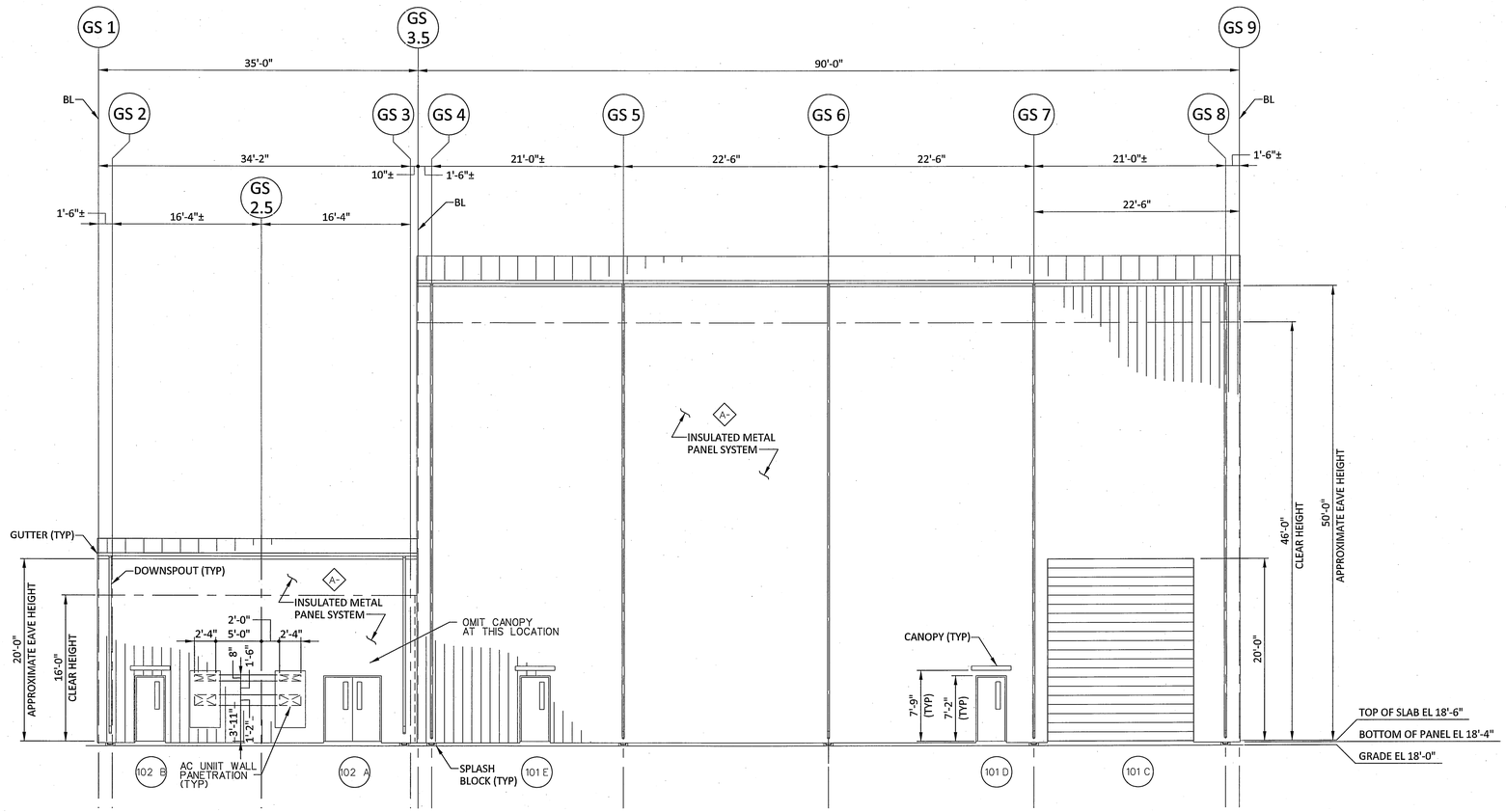
VENDOR NO.
191547-5BSE-A4451

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

ANSI D SIZE | CONT. ____ ELEC. ____ MECH. ____ CIVIL ____ SPON. ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



EAST ELEVATION

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

NOTES

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EXTERIOR WALL TYPE LIST

P 2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- WALL TYPE

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INTERIOR WALL TYPE LIST

P 2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
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ROOF TYPE LIST

P 2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
0	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GIS BUILDING
EAST ELEVATION

ELEVATIONS — DESIGN - CIVIL ARCH

ISSUED FOR PERMITTING

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PROJECT ENGINEERING DIVISION
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REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

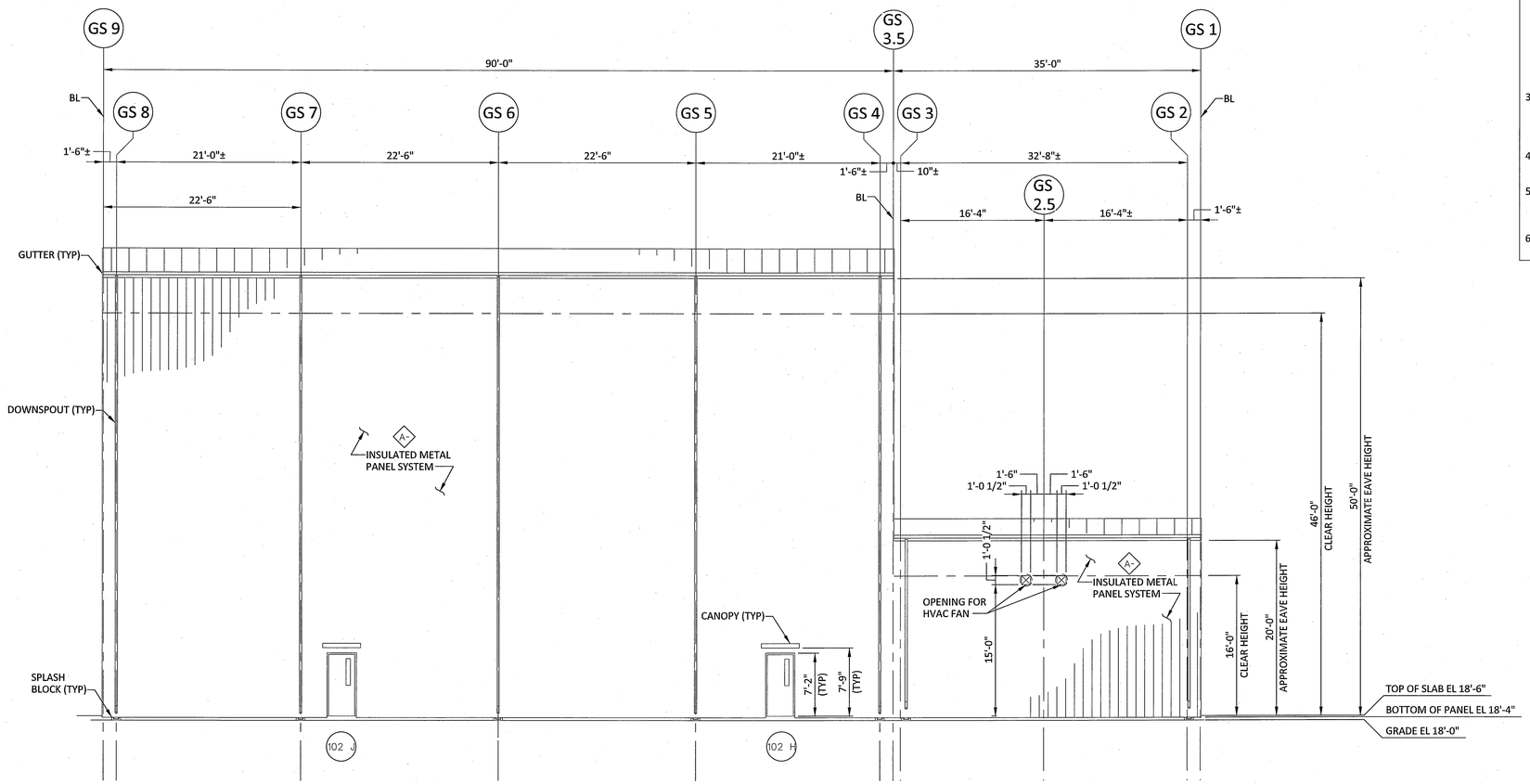
VENDOR NO.
191547-5BSE-A4452

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

0	ISSUED FOR PERMITTING

ANSI D SIZE | CONT. ____ MECH. ____ SPON. ____ ELEC. ____ CIVIL ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



WEST ELEVATION

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

NOTES

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INTERIOR WALL TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; WALL TYPE

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ROOF TYPE LIST

P2 — FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS; ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GIS BUILDING
WEST ELEVATION

DESIGN – CIVIL ARCH

ISSUED FOR PERMITTING

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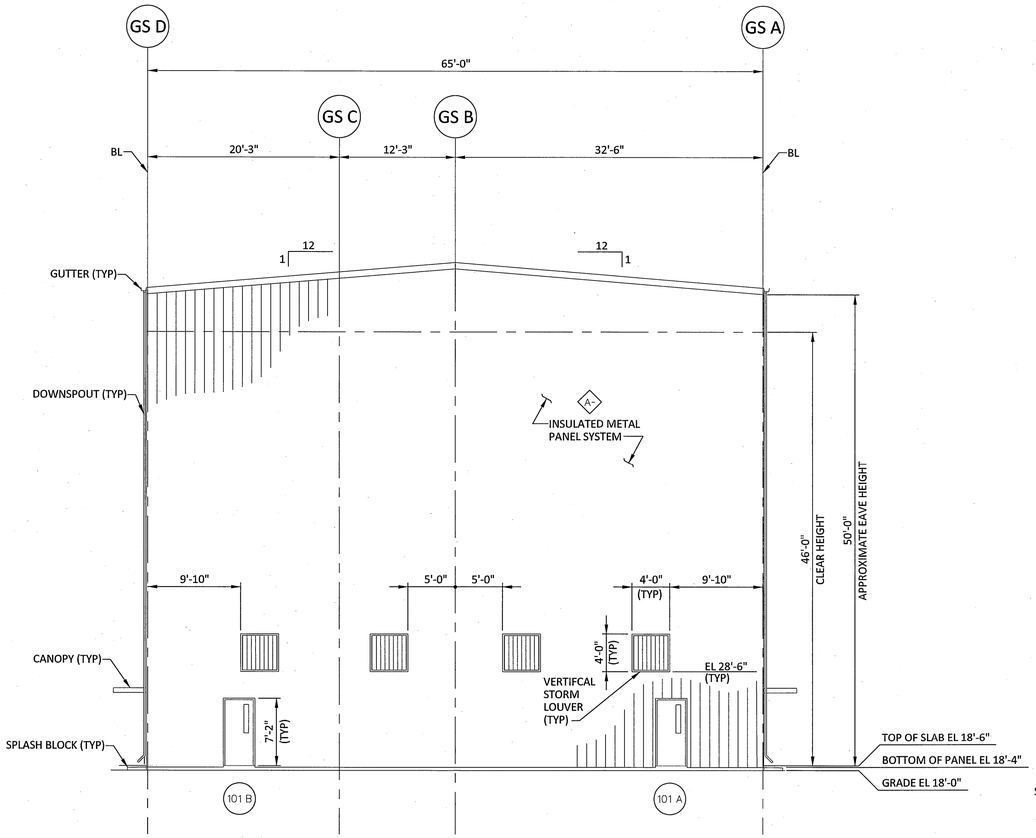
VENDOR NO.
191547-5BSE-A4453

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

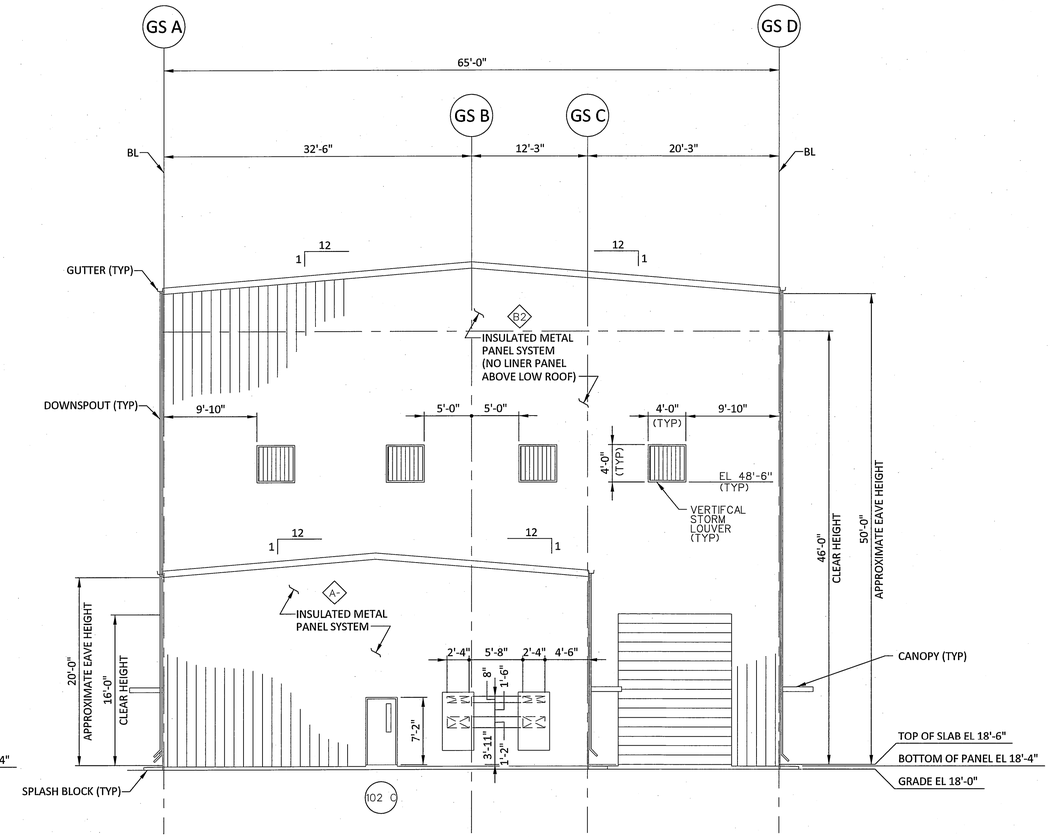
0	ISSUED FOR PERMITTING

ANSI D SIZE | CONT. ____ ELEC. ____ MECH. ____ CIVIL ____ SPON. ____ OTHER ____ | SPONSOR: T. MURPHY | VERSION: 0



NORTH ELEVATION

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



SOUTH ELEVATION

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

EXTERIOR WALL TYPE LIST

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WALL TYPE

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INTERIOR WALL TYPE LIST

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WALL TYPE

A. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

B. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - TWO HOUR FIRE RATED, INSULATED: LINER PANEL/MINERAL WOOL INSULATION/GIRT/LINER PANEL - LNER PANEL IN CONTROL ROOM AND BATTERY ROOM, FULL HEIGHT TO STRUCTURE ABOVE. LINER PANEL IN GIS HALL, 8 FEET HIGH

ROOF TYPE LIST

P2
FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

1. SEE DRAWING 191547-5UUU-A4000 FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
2. COLLATERAL LOADS: IN ADDITION TO THE SPECIFIED LOADS, COLLATERAL LOADS SHALL BE INCLUDED IN THE BUILDING DESIGN. COLLATERAL LOADS SHALL CONSIST OF A UNIFORM LOAD AND A CONCENTRATED PHANTOM LOAD APPLIED TO THE BUILDING FLOOR.

   UNIFORM COLLATERAL LOADS SHALL BE CONSIDERED AS DEAD LOAD AND INCLUDED IN THE CALCULATION OF LATERAL SEISMIC LOADS. HOWEVER, UNIFORM COLLATERAL LOADS SHALL NOT BE CONSIDERED TO RESIST UPLIFT.

   CONCENTRATED PHANTOM COLLATERAL LOADS SHALL BE APPLIED TO EACH MEMBER (FRAME MEMBER, PURLIN, ETC.). THESE CONCENTRATED LOADS SHALL BE APPLIED TO MULTIPLE LOCATIONS ON THE MEMBER SO THE SUPPLIER SHALL CAUSE BOTH MAXIMUM MOMENT AND/OR MAXIMUM SHEAR. THESE CONCENTRATED LOADS SHALL BE CONSIDERED FOR SIZING THE BEAM AND CONNECTIONS ONLY AND NOT CARRIED OVER FOR COLUMN DESIGN.

   - UNIFORM LOAD ON ALL ROOF AND FLOOR MEMBERS 20 PSF.
   - UNIFORM LOAD ON ALL STAIRS, LANDINGS AND PLATFORMS 100 PSF.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL STAIRS, LADDERS, AND PLATFORMS 1 KIP.
3. HVAC, ELECTRICAL, AND MECHANICAL EQUIPMENT AND PIPING PENETRATIONS WILL BE ADDED DURING THE DESIGN PHASE OF THE PROJECT AND ARE THUS NOT CURRENTLY SHOWN ON THE DRAWINGS. PENETRATIONS SIZES AND LOCATIONS SHOWN ARE PRELIMINARY. PENETRATIONS SHOULD BE CONSIDERED IN THE BID PACKAGE.
4. COLUMN ROW DIMENSIONS MAY BE ADJUSTED BY THE PEMB MANUFACTURER TO ACCOUNT FOR DESIGNED GIRT AND STEEL SIZE.
5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
6. ALL ELEVATIONS SHOWN ON THIS DRAWING ARE BASED ON NAVD88 DATUM. TO CONVERT FROM NAVD88 TO CITY OF BRIDGEPORT DATUM, ADD 14.6 FEET TO NAVD88 ELEVATIONS.

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø ISSUED FOR PERMITTING

ISSUED FOR PERMITTING

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

8' 4' 0 8' 16'

1/8"=1'-0"

Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.

Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GIS BUILDING
NORTH & SOUTH ELEVATIONS

ELEVATION DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

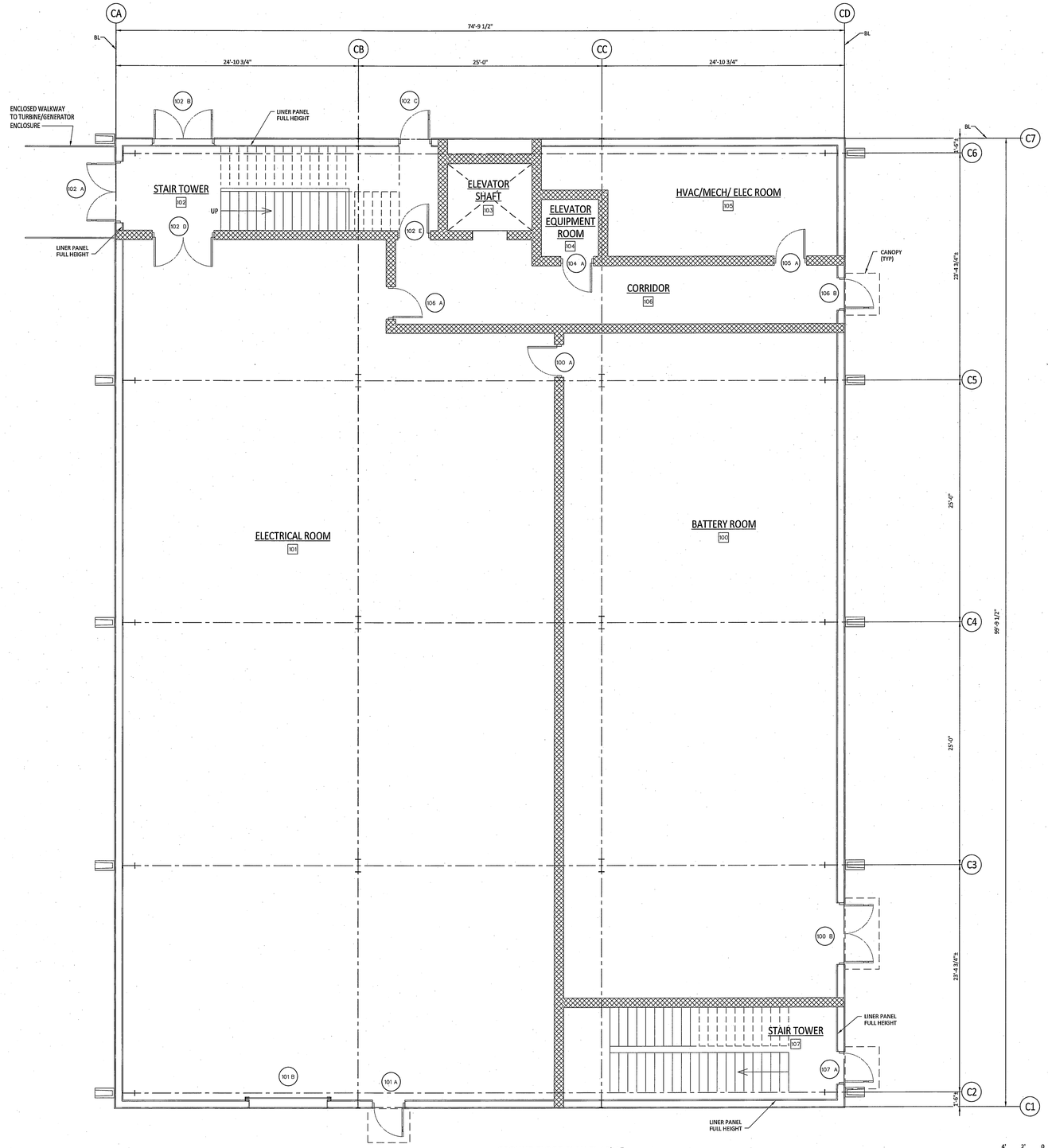
VENDOR NO.
191547-5BSE-A4454

ANSI D SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



GROUND FLOOR PLAN EL 18'-6"
SCALE: 1/4"=1'-0"

4' 2' 0 4' 8'
1/4"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

C. STANDARD PARTITION - 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

1. SEE DRAWING A4000 FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
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   - UNIFORM LOAD ON ALL STAIRS AND PLATFORMS 100 PSF
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL STAIRS, LADDERS, AND PLATFORMS 1 KIP.
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5. FOR BUILDING TIE-DOWN LOCATIONS SEE DRAWINGS 191547-5GAU-G1000 AND 191547-5GAU-G1001. FOR ELECTRICAL AND MECHANICAL EQUIPMENT INSIDE BUILDINGS SEE G2000 SERIES ARRANGEMENT DRAWINGS.
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REVISION

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BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
ADMIN/CONTROL/AUX ELECTRICAL BUILDING
GROUND FLOOR PLAN EL 18'-6"

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
Corporate Headquarters:
11401 Lamar Ave., Overland Park, KS 66211

DWG SCALE: 1/4"=1'-0"

SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSD-A4501

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

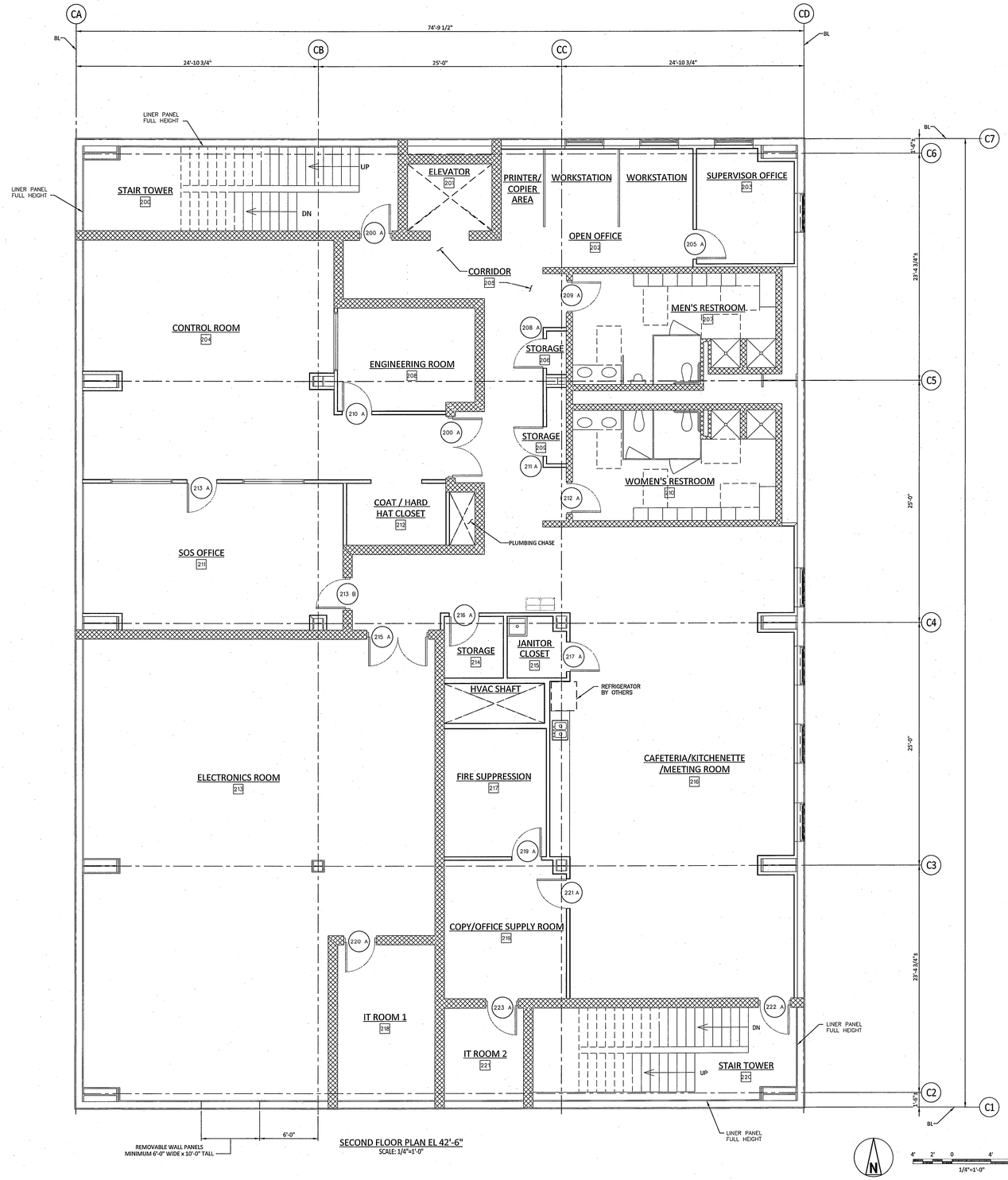
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



SECOND FLOOR PLAN EL 42'-6"
SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CEILING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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Ø	08/25/16	C.01950	PERMITTING	MED	TEB	JST		LWJ	MED

REVISION

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Corporate Headquarters:
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DWG SCALE: 1/4"=1'-0"

SEAL:

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
ADMIN/CONTOL/AUX ELECTRICAL BUILDING
FLOOR PLAN 42'-6"

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSD-A4502

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

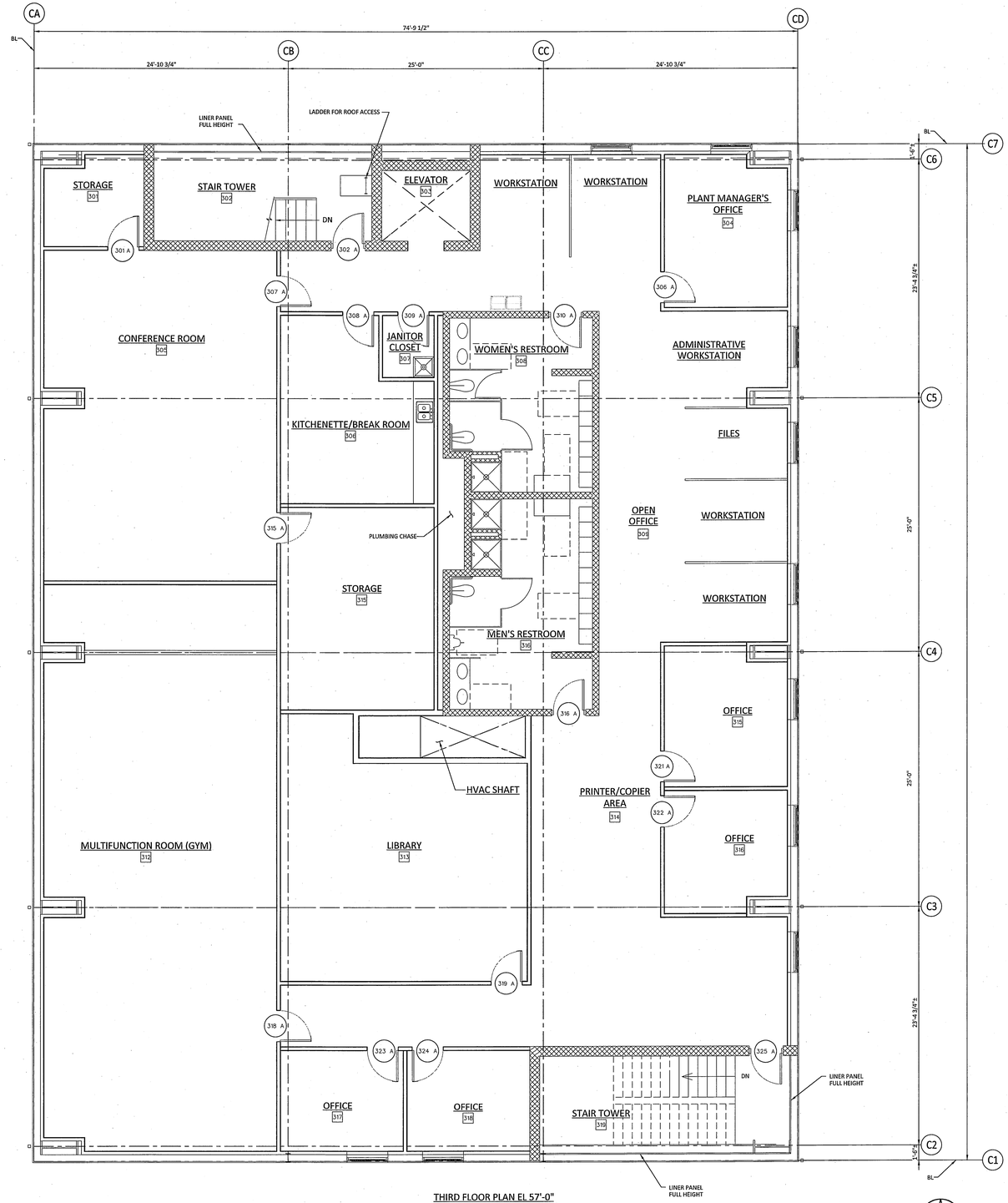
Ø ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



THIRD FLOOR PLAN EL 57'-0"
SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

E-2
FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

I-2
FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CEILING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

R-2
FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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REVISION

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N

4' 2' 0 4' 8'
1/4"=1'-0"

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SEAL:

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
ADMIN/CONTROL/AUX ELECTRICAL BUILDING
FLOOR PLAN EL 58'-6"

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

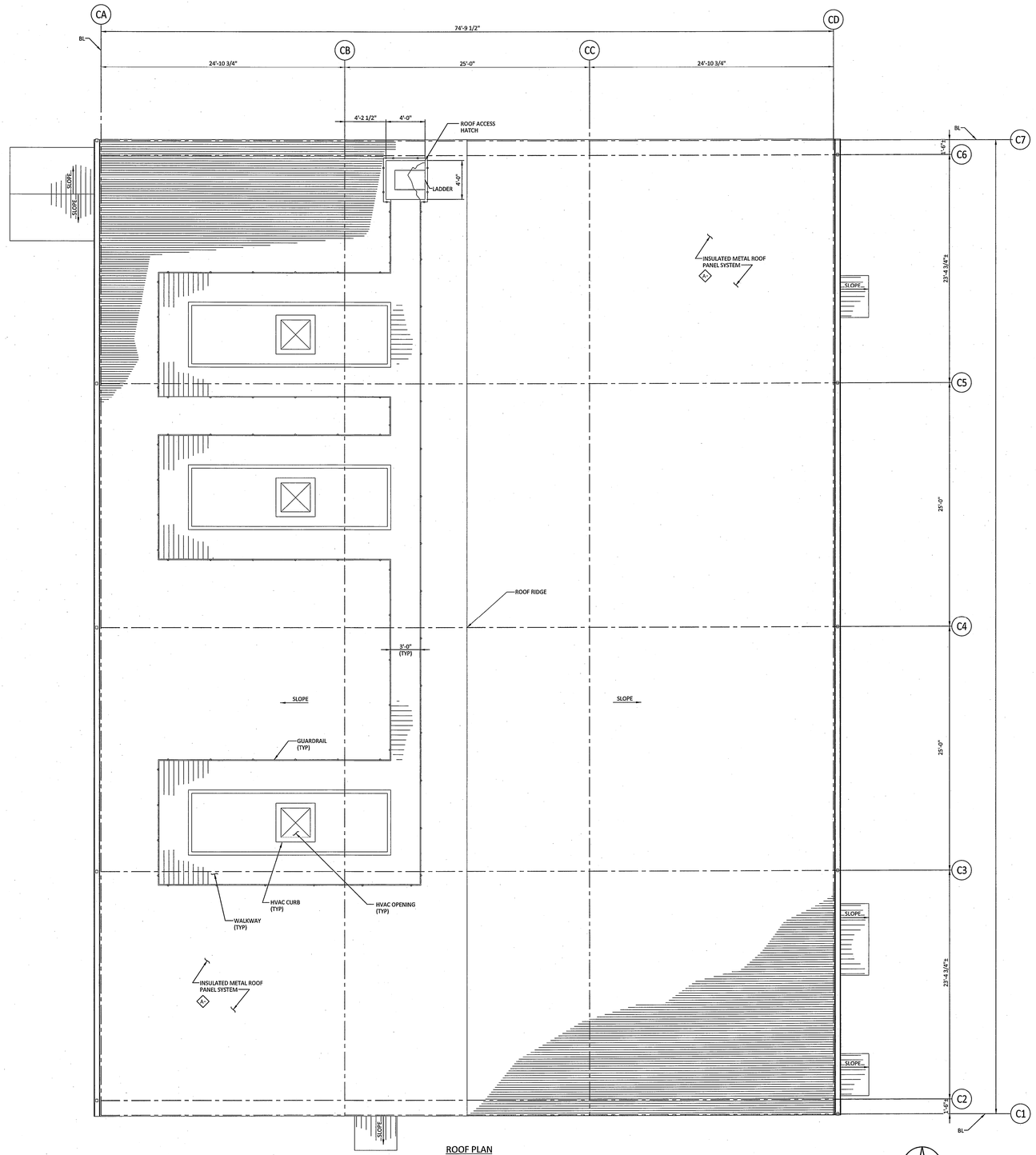
VENDOR NO.
191547-5BSD-A4503

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

Ø	ISSUED FOR PERMITTING

ANSI E SIZE | CONT: ___ MECH. ___ SPON. ___ ELEC. ___ CIVIL ___ OTHER ___ | SPONSOR: T. MURPHY | VERSION: 0



ROOF PLAN
SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

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H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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Ø	Ø8/25/16	C.Ø1958	PERMITTING	MED	TEB	JST		LWJ	MED

REVISION

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BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
ADMIN/CONTROL/AUX ELECTRICAL BUILDING
ROOF PLAN

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.

Corporate Headquarters: 11401 Lamar Ave., Overland Park, KS 66211

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MICHELE DAWSON	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

DWG SCALE: 1/4"=1'-0"

SEAL:

VENDOR NO.

191547-5BSD-A4504

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

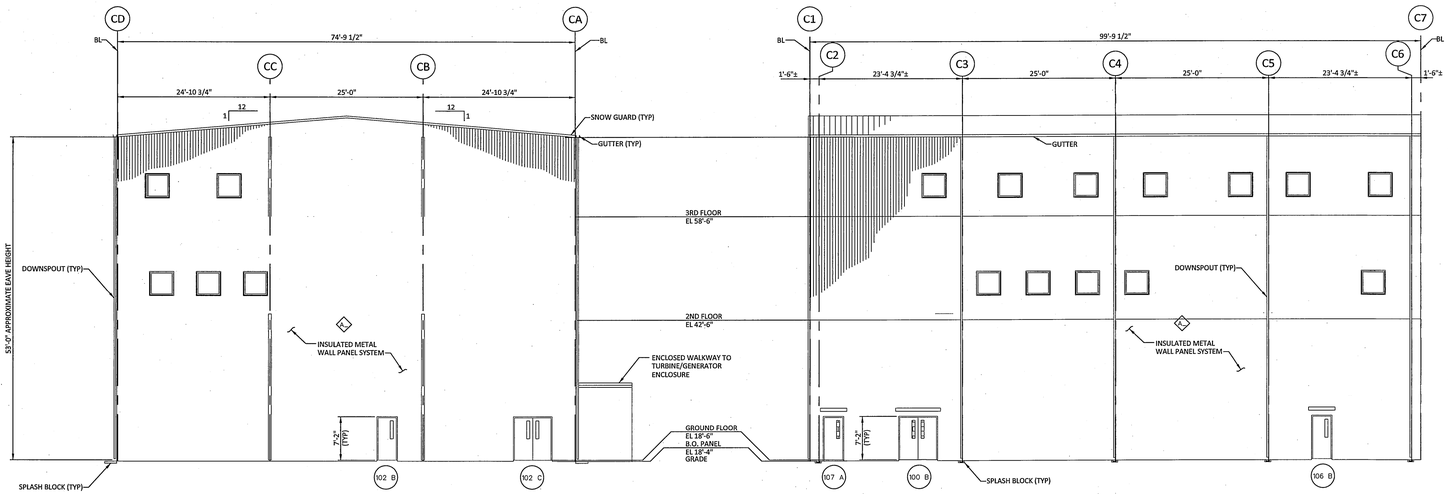
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPONL ____
ELEC. ____ CIVIL ____ OTHER ____

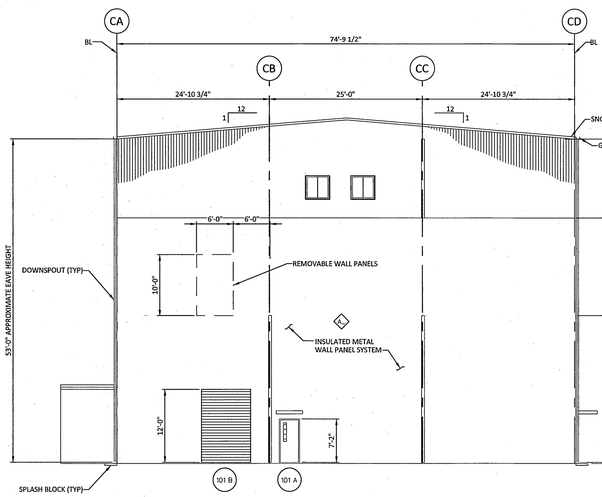
SPONSOR: T. MURPHY

VERSION: 0

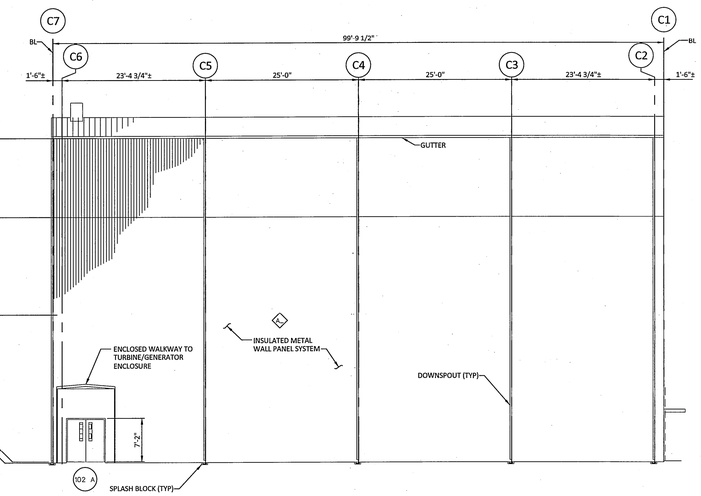


NORTH ELEVATION
SCALE: 1/8"=1'-0"

EAST ELEVATION
SCALE: 1/8"=1'-0"



SOUTH ELEVATION
SCALE: 1/8"=1'-0"



WEST ELEVATION
SCALE: 1/8"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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ROOF TYPE LIST

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REVISION

BRIDGEPORT HARBOR UNIT 5

BUILDING & STRUCTURES
ADMIN/CONTROL/AUX ELECTRICAL BUILDING
ELEVATIONS

ELEVATIONS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

ISSUED FOR PERMITTING

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VENDOR NO.

191547-5BSD-A4510

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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CONT. ____ MECH. ____ SPON. ____
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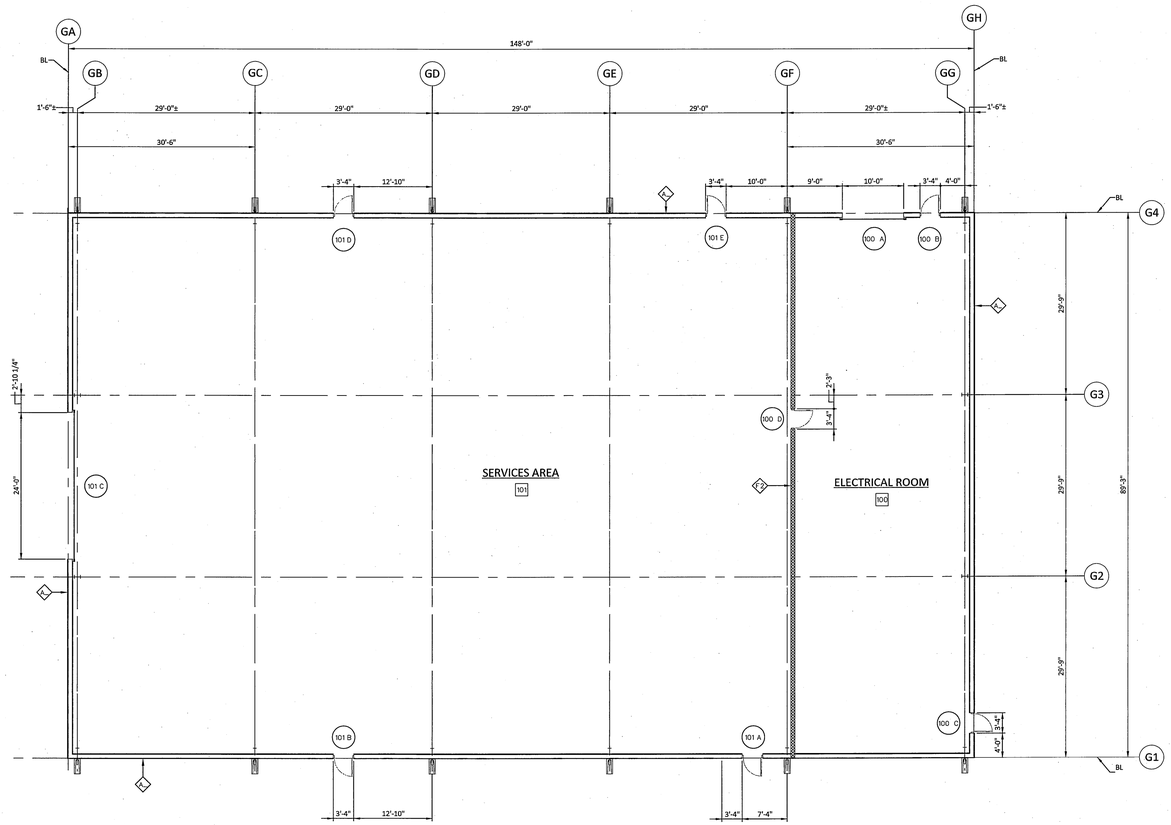
SPONSOR: T. MURPHY

VERSION: 0



GROUND FLOOR PLAN EL 18'-6"

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

ADDITIONAL LOADING NOTES (SEE NOTE 2)

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0	08/25/16	C.01950	PERMITTING	EDM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5

BUILDING & STRUCTURES
WATER TREATMENT AREA
GENERAL SERVICES ENCLOSURE - FLOOR

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

8' 4' 0 8' 16'
1/8"=1'-0"

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SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5BSJ-A4651

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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ANSI E SIZE

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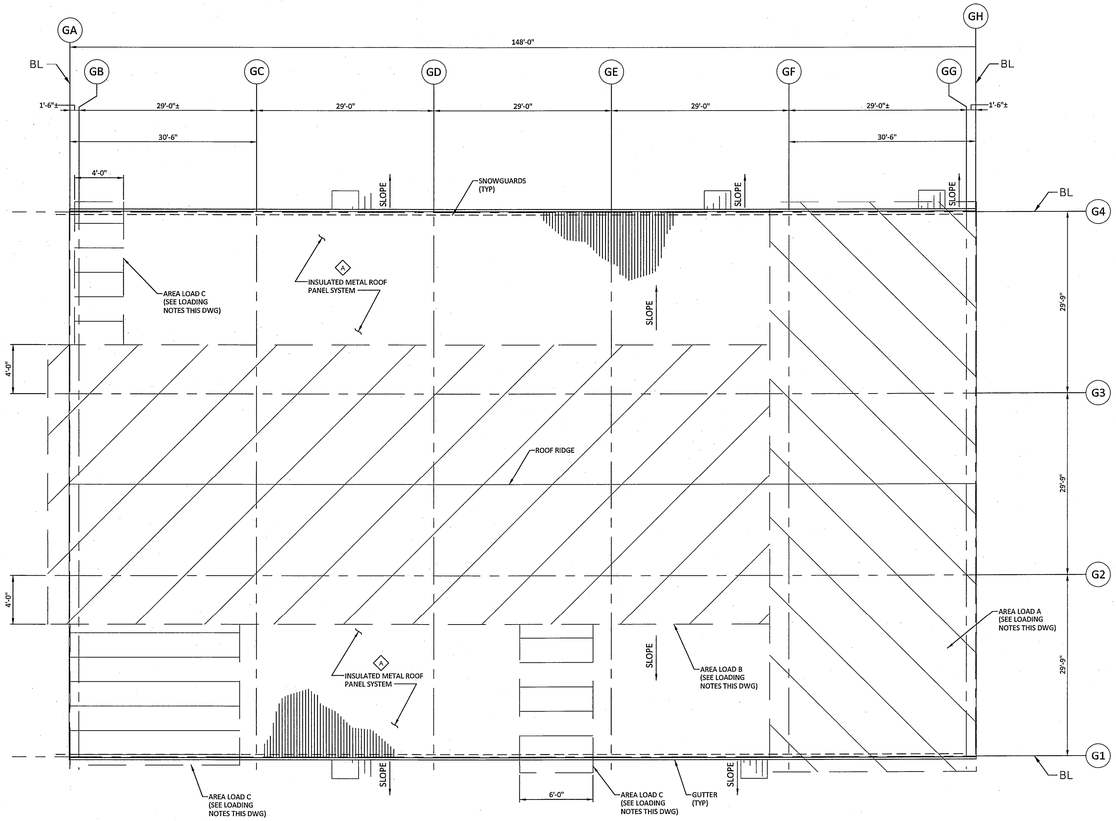
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



ROOF LOADING PLAN

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

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EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

P-2

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

P-2

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
WATER TREATMENT AREA
GENERAL SERVICES ENCLOSURE - ROOF

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VENDOR NO.
191547-5BSJ-A4652

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ANSI E SIZE

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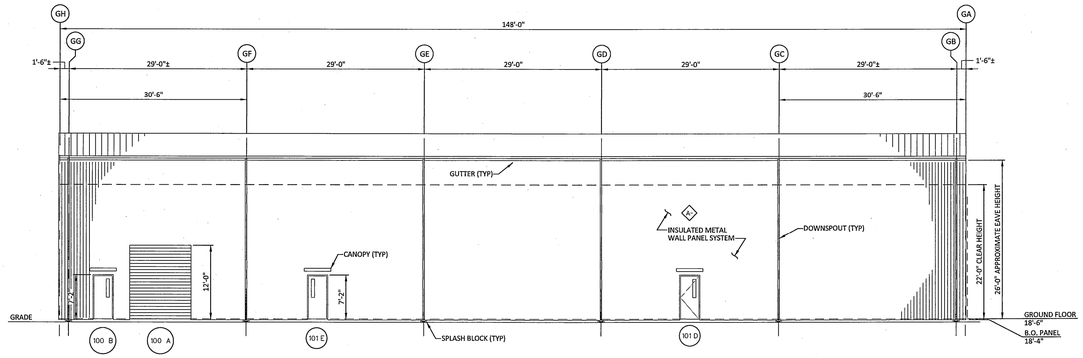
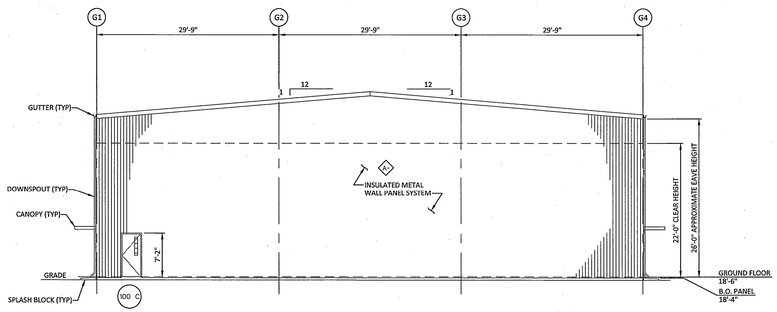
SPONSOR: T. MURPHY

VERSION: 0



NORTH ELEVATION

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



EAST ELEVATION

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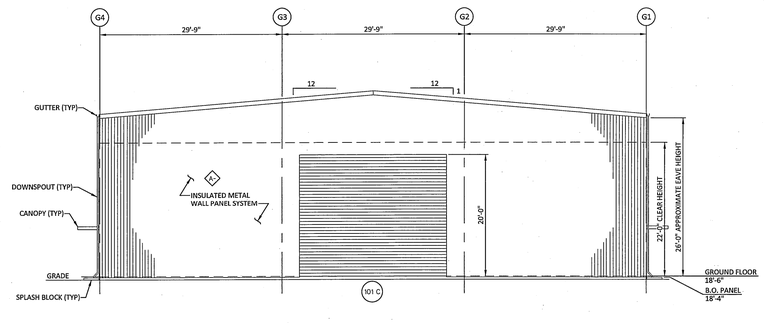

WEST ELEVATION

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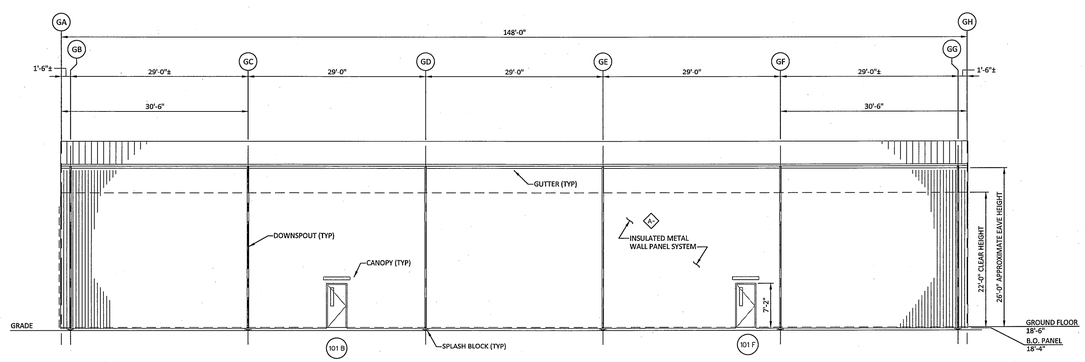

SOUTH ELEVATION

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

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

B. STANDARD PARTITION - INSULATION 5/8" GYPSUM PANEL. EACH SIDE ON 3 5/8" STEEL STUDS AT 18" O.C. - WITH 3 1/2" BATT INSULATION - FULL HEIGHT TO STRUCTURE ABOVE - GYPSUM PANELS TAPED AND READY FOR FINISH.

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D. MASONRY WALL: 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS

E. MASONRY WALL: 8" CMU REINFORCED WALL - WITH FULL HEIGHT CERAMIC TILE.

F. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 8" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

G. MASONRY WALL - TWO HOUR FIRE RATED: UL DESIGN NO. U905 12" CMU REINFORCED WALL - FULL HEIGHT TO STRUCTURE ABOVE UNLESS NOTED ON THE DRAWINGS.

H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

1. SEE DRAWING A4000 FOR NOTES, ABREVIATIONS, AND GENERAL NOTES.
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   - UNIFORM LOAD ON ALL ROOF AND FLOOR MEMBERS 20 PSF.
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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
WATER TREATMENT AREA
GENERAL SERVICES ENCLOSURE-ELEVATIONS

ELEVATIONS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

8' 4' 0 8' 16'
1/8"=1'-0"

ISSUED FOR PERMITTING

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Project Location: Fairfield County, CT

BLACK & VEATCH Building a world of difference.
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SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.

191547-5BSJ-A4653

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

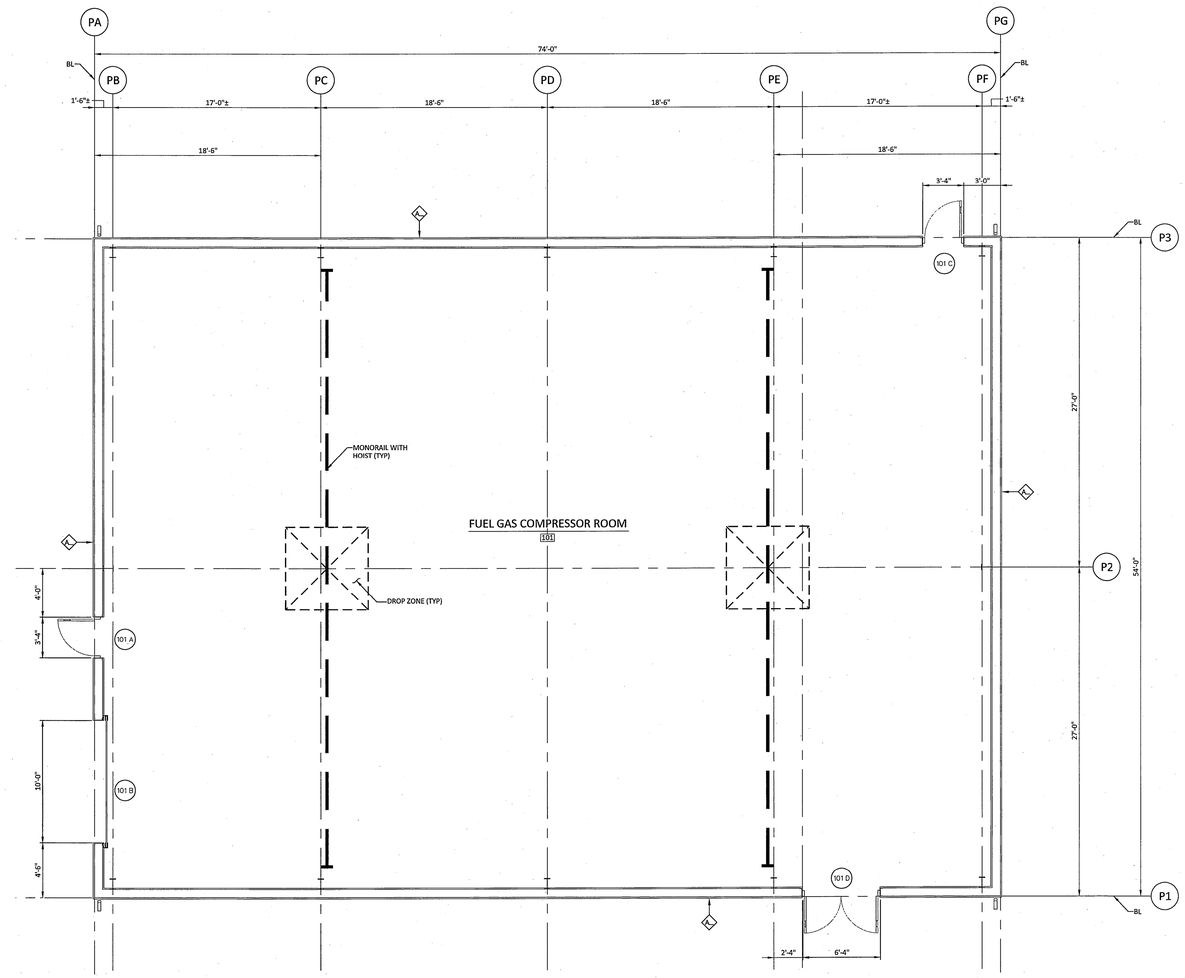
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPONL. ____ ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



GROUND FLOOR PLAN EL 18'-6"
SCALE: 1/4" = 1'-0"

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FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
FUEL GAS PROCESSING ENCLOSURE
FLOOR PLAN

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

4' 2' 0 4' 8'
1/4"=1'-0"

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DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSG-A4701

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

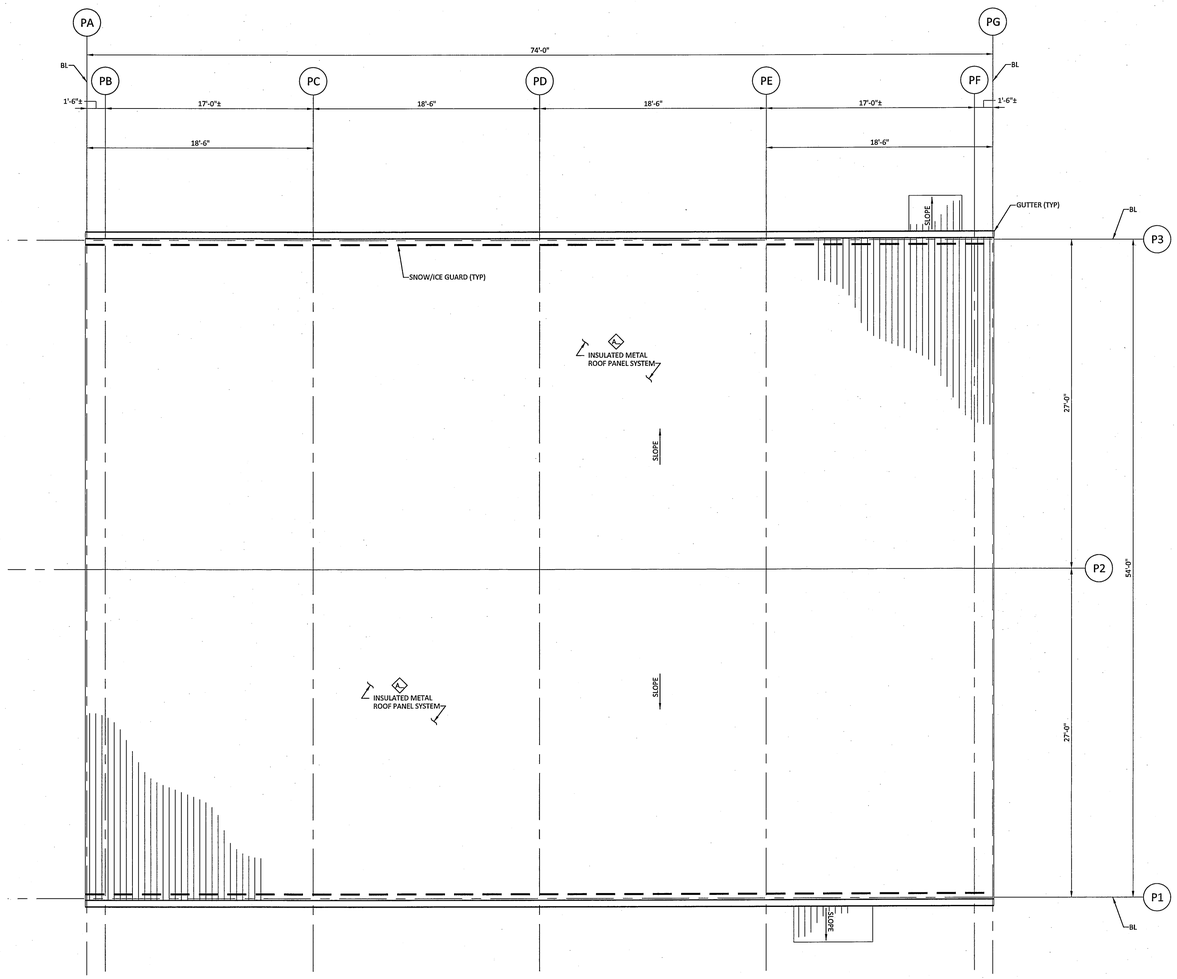
Ø ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



ROOF PLAN
SCALE: 1/4" = 1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
FUEL GAS PROCESSING ENCLOSURE
ROOF PLAN

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

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REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSG-A4702

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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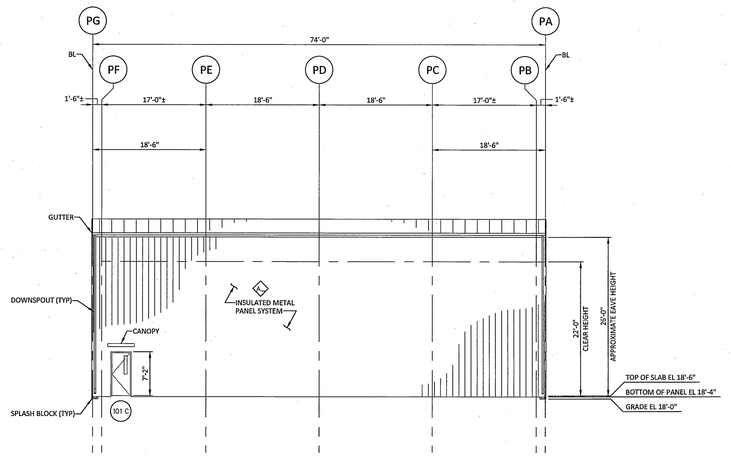
ANSI E SIZE

CONT. ____ MECH. ____ SPONL ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



NORTH ELEVATION
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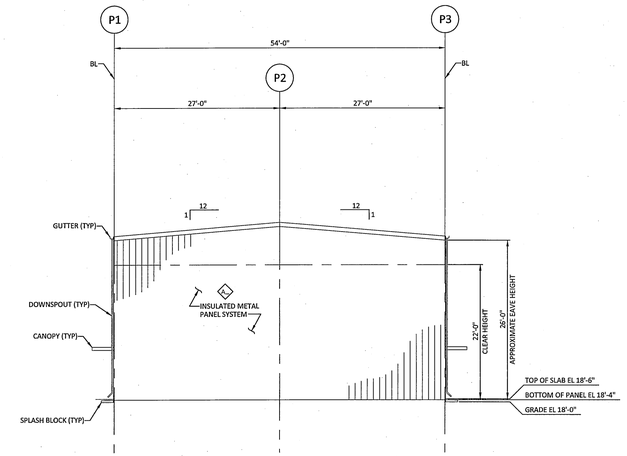

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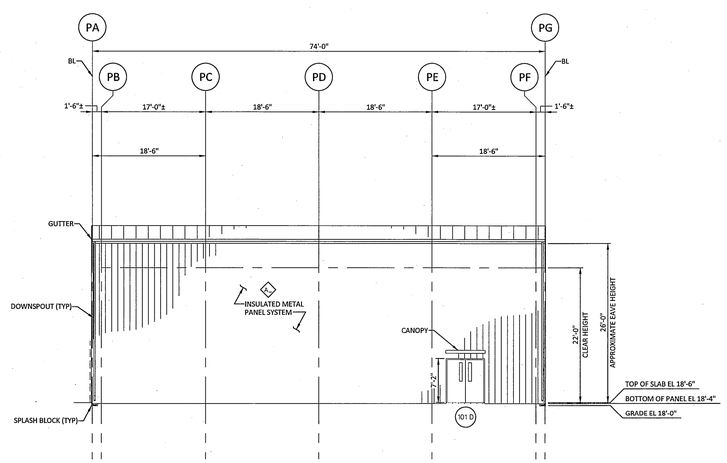

SOUTH ELEVATION
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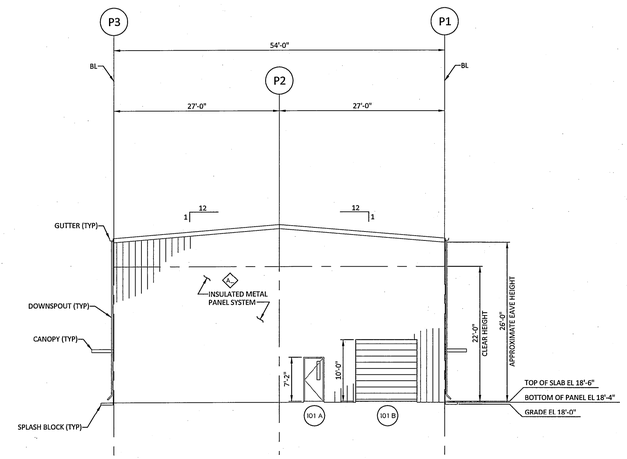

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   - CONCENTRATED PHANTOM COLLATERAL LOADS ON ALL FLOOR AND ROOF MEMBERS 2 KIPS.
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NO	DATE	ACCT	DESCRIPTION	DWN	CKD	EXD	REV	REV	APD
Ø	08/25/16	C.01950	PERMITTING	MWM	TEB	JST		LWJ	MED

REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
FUEL GAS PROCESSING ENCLOSURE
ELEVATIONS

ELEVATIONS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

8' 4' 0 8' 16'
1/8"=1'-0"

ISSUED FOR PERMITTING

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Project Location:
Fairfield County, CT

BLACK & VEATCH
Building a world of difference.
Corporate Headquarters:
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DWG SCALE: 1/8"=1'-0"

SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
MARCUS MILLION	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSG-A4703

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

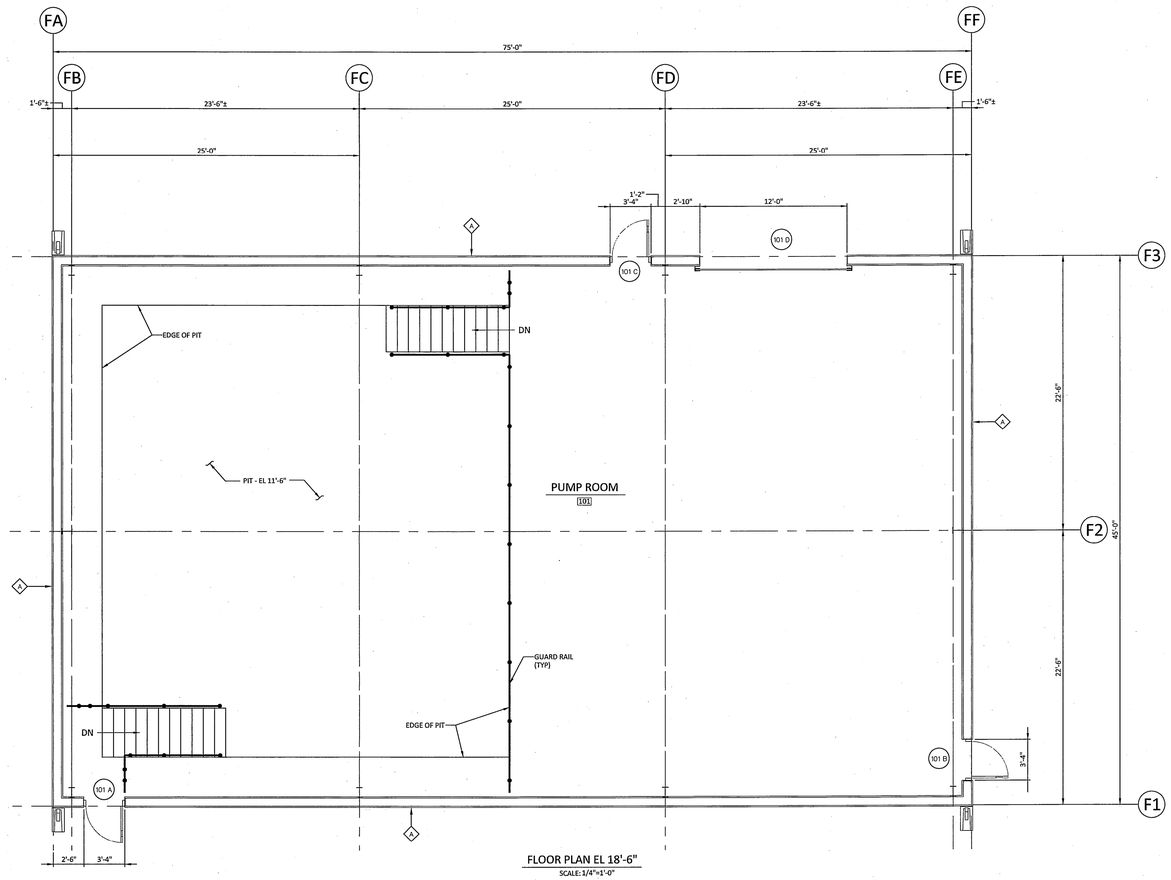
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



FLOOR PLAN EL 18'-6"

SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

E-2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

I-2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
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A. WALL FURRING: 5/8" GYPSUM PANEL. ONE SIDE ON 3 5/8" STEEL STUDS AT 16" O.C. - TERMINATE GYPSUM PANELS AT 6" ABOVE CELING - GYPSUM PANELS TAPED AND READY FOR FINISH.

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H. METAL WALL - LINER PANEL FACTORY FINISHED LINER PANEL ON STRUCTURAL FRAMING/SUPPORT AS PER DRAWINGS.

ROOF TYPE LIST

R-2
- FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS
- ROOF TYPE

A. FIELD ASSEMBLED METAL ROOF PANEL SYSTEM - STANDING SEAM SYSTEM OVER COVER BOARD, RIGID INSULATION AND METAL DECK.

NOTES

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GAS COMPRESSOR & CONDITIONING AREA
FUEL OIL FORWARDING PUMP ENCLOSURE FLOOR

PLAN — DESIGN - CIVIL ARCH

4' 2' 0 4' 8'
1/4"=1'-0"

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DWG SCALE: 1/4"=1'-0"

SEAL:

PROJECT ENGINEERING DIVISION

PSEG
Power Connecticut LLC

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSV-A4715

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

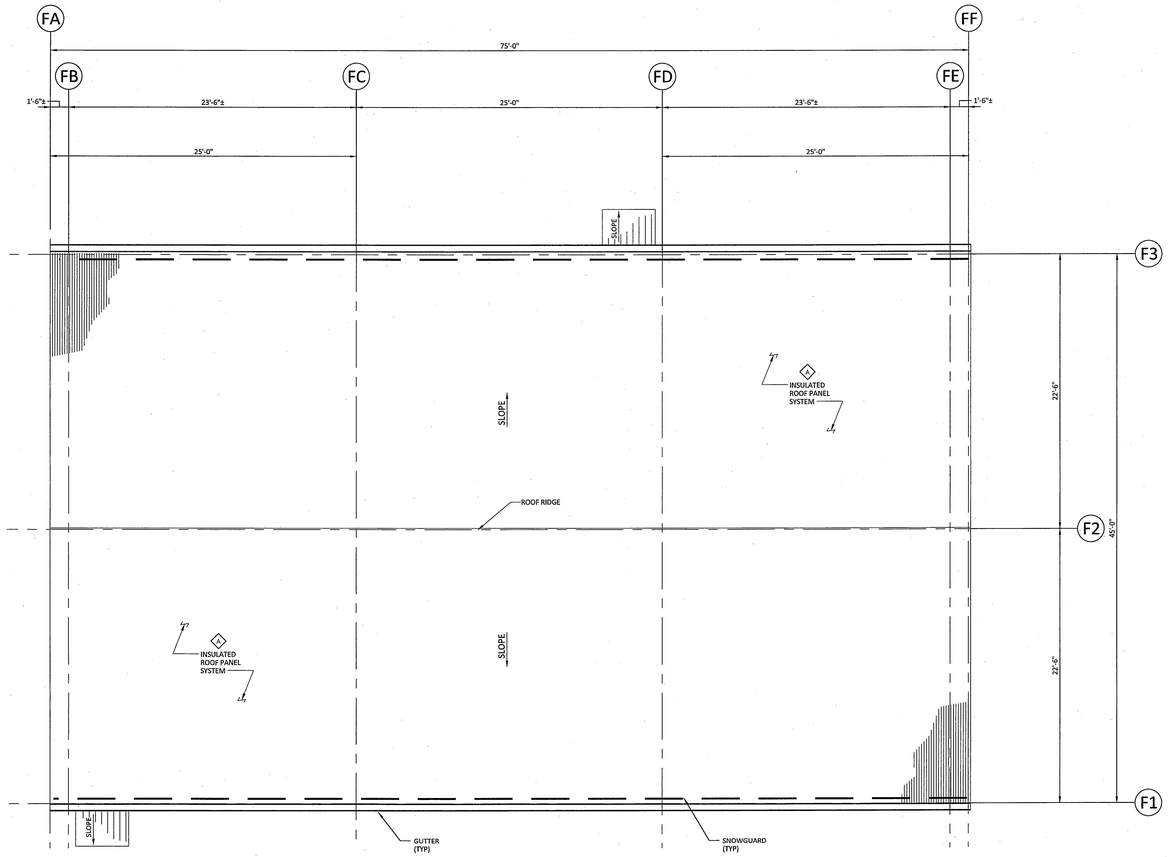
Ø	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

SPONSOR: T. MURPHY

VERSION: 0



ROOF PLAN
SCALE: 1/4"=1'-0"

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

INTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

ROOF TYPE

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GAS CONPRESSOR & CONDITIONING AREA
FUEL OIL FORWARDING PUMP ENCLOSURE ROOF

PLAN — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

PSEG Power Connecticut LLC

4' 2' 0 4' 8'
1/4"=1'-0"

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SEAL:

DRAWN (B&V)	CHECKED (B&V)	EXAMINED (B&V)
DALE MORGAN	TERRY BROWN	JOHN TOP
REVIEWED (B&V)	REVIEWED (B&V)	APPROVED (B&V)
	WEY-JEN LEE	MICHAEL DRAKE

VENDOR NO.
191547-5BSV-A4716

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

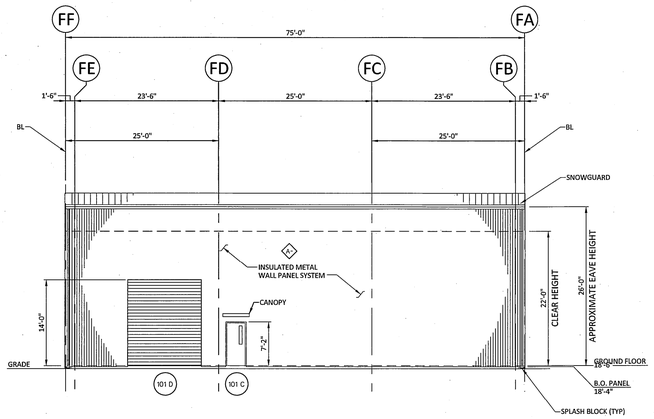
0	ISSUED FOR PERMITTING

ANSI E SIZE

CONT. ____ MECH. ____ SPON. ____
ELEC. ____ CIVIL ____ OTHER ____

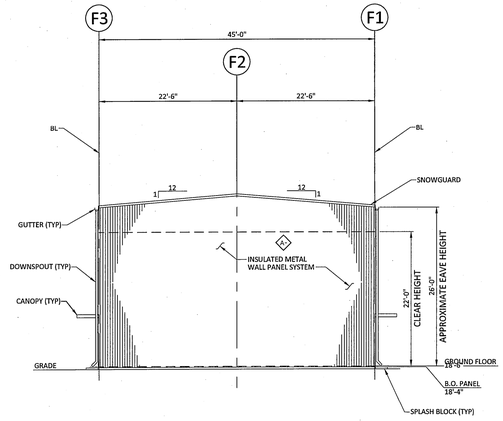
SPONSOR: T. MURPHY

VERSION: 0



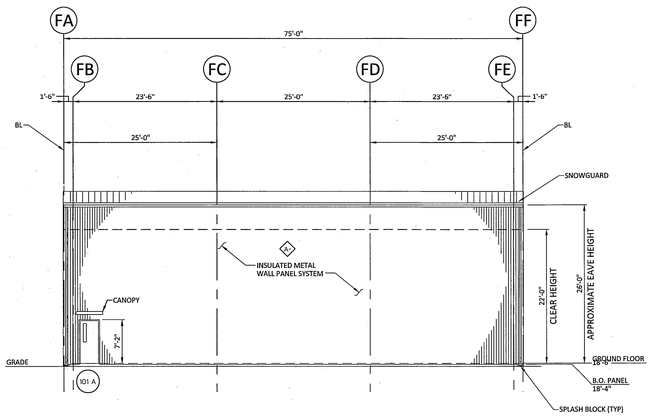
NORTH ELEVATION

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



WEST ELEVATION

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



SOUTH ELEVATION

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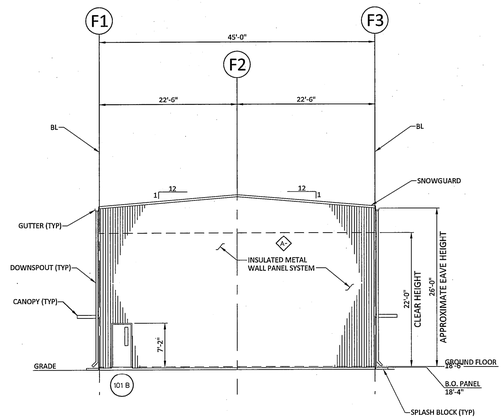

EAST ELEVATION

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

EXTERIOR WALL TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

WALL TYPE

A. FIELD ASSEMBLED METAL WALL PANEL SYSTEM - INSULATED: OUTER PANEL/INSULATION/GIRT/LINER PANEL. - LINER PANEL 8 FEET HIGH.

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ROOF TYPE LIST

FIRE RATING - NUMBER INDICATES DURATION OF FIRE RATING IN HOURS

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REVISION

BRIDGEPORT HARBOR UNIT 5
BUILDING & STRUCTURES
GAS COMPRESSOR & CONDITIONING AREA
FUEL OIL FORWARDING PUMP ENCLOSURE EL

ELEVATIONS — DESIGN - CIVIL ARCH

PROJECT ENGINEERING DIVISION

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VENDOR NO.

191547-5BSV-A4717

TECHNICAL TABLES/SPECIFICATIONS:

REVISION NOTES:

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ANSI E SIZE

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SPONSOR: T. MURPHY

VERSION: 0