

Wetland Impacts Associated with the Garden State Expansion Project

Project Component	Wetland Impact by Vegetation Type and Impact Type										Total Wetland Impact	
	PEM Wetland Temporary ^a		PEM Wetland Permanent Fill ^b		PFO Wetland Permanent Conversion (Maintenance) ^c		PFO Wetland Permanent Conversion (Temporary Easement) ^d		PFO Wetland Permanent Fill ^b		Acres	Sq. Ft.
	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.		
Electrical Substation W-BU-001	0.025	1,076	2.038	88,761	0.000	0	0.000	0	0.000	0	2.063	89,837
Electrical Conduit W-BU-001	0.355	15,452	0.048	2,081	0.019	831	0.065	2,824	0.000	0	0.488	21,188
Suction Discharge Pipeline W-BU-001	0.986	42,945	0.120	5,213	0.224	9,766	0.082	3,565	0.000	0	1,412	61,489
Pipeline Valve Site W-BU-001	0.070	3,055	0.545	23,745	0.000	0	0.000	0	0.000	0	0.615	26,800
Compressor Station W-BU-002	0.000	0	0.000	0	0.128	5,585	0.000	0	0.000	0	0.128	5,585
Total	1.435	62,528	2.751	119,820	0.371	16,182	0.147	6,389	0.000	0	4.704	204,919

Notes:

Corvidin Classifications:
PEM = Palustrine Emergent Wetland
PFO = Palustrine Forested Wetland

a. PEM area will be temporarily impacted during construction but will be restored to preconstruction state and revegetated.
b. PEM and PFO area will be permanently filled for a project component and will no longer provide wetland biological functions.
c. PFO area will be converted to PEM within the station piping/conduit construction ROW. Portions within the temporary construction ROW will be restored and allowed to revert back to forest, but these areas have been treated as permanent per NJDEP permitting rationale.
d. PFO area will be converted to PEM within those portions of station piping/conduit temporary construction ROW outside of the permanent easement. Portions within the temporary construction ROW will be restored and allowed to revert back to forest, but these areas have been treated as permanent conversion per NJDEP permitting rationale.

Transition Area Impacts Associated with the Garden State Expansion Project

Project Component	Transition Impact by Vegetation Type and Impact Type										Total Transition Area Impact	
	Upland Herbaceous Temporary ^a		Upland Herbaceous Permanent Fill ^b		Upland Forested Permanent Conversion (Maintenance) ^c		Upland Forested Permanent Conversion (Temporary Easement) ^d		Upland Forested Permanent Fill ^b		Acres	Sq. Ft.
	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.	Acres	Sq. Ft.		
Electrical Substation W-BU-001	0.284	12,357	1.011	44,026	0.000	0	0.000	0	0.000	0	1.294	56,383
Electrical Conduit W-BU-001	0.207	9,033	0.004	196	0.057	2,475	0.091	3,972	0.003	126	0.363	15,802
Suction Discharge Pipeline W-BU-001	0.581	25,296	0.031	1,346	0.177	7,698	0.093	4,063	0.000	0	0.882	38,403
Pipeline Valve Site W-BU-001	0.309	13,469	0.033	1,436	0.261	11,351	0.000	0	0.068	2,981	0.671	29,237
Compressor Station W-BU-002	0.000	0	0.000	0	0.354	15,429	0.000	0	0.000	0	0.354	15,429
Total	1.381	60,156	1.079	47,004	0.848	36,953	0.184	8,035	0.071	3,107	3.564	156,264

Notes:

a. Herbaceous area will be temporarily impacted during construction but will be restored to preconstruction state and revegetated.
b. Herbaceous and Forested area will be permanently filled for a project component and will no longer provide riparian zone biological functions.
c. Forested area will be converted to herbaceous within the station piping/conduit construction ROW. Portions within the temporary construction ROW will be restored and allowed to revert back to forest, but these areas have been treated as permanent per NJDEP permitting rationale.
d. Forested area will be converted to herbaceous within those portions of station piping/conduit temporary construction ROW outside of the permanent easement. Portions within the temporary construction ROW will be restored and allowed to revert back to forest, but these areas have been treated as permanent conversion per NJDEP permitting rationale.

* FOR NJDEP IP CALCULATIONS, PLEASE SEE TABLE ENTITLED "NJDEP FWW IP IMPACT SUMMARY PERMANENT WETLAND IMPACTS AND ASSOCIATED TRANSITION AREA ACCESS IMPACTS"

	PROPOSED SUCTION/DISCHARGE LINES		PEM WETLAND IMPACT (TEMPORARY)
	PROPOSED ELECTRIC DUCT BANK		PEM WETLAND FILL (PERMANENT)
	EXISTING GAS PIPELINE		PFO WETLAND CONVERSION (MAINTENANCE/PERMANENT)
	EXISTING OVERHEAD ELECTRIC		PFO WETLAND CONVERSION (TEMPORARY EASEMENT)
	EXISTING COMMUNICATIONS LINE		UPLAND HERBACEOUS TRANSITION IMPACT (TEMPORARY)
	PROPOSED CONTOUR		UPLAND HERBACEOUS TRANSITION FILL (PERMANENT)
	EXISTING CONTOUR		UPLAND FORESTED TRANSITION CONVERSION (TEMP EASEMENT)
	PARCEL LINE		UPLAND FORESTED TRANSITION CONVERSION (TEMP EASEMENT)
	TOWNSHIP BOUNDARY		
	EXISTING EASEMENT		
	TREELINE		
	PROJECT LIMITS		
	PROPERTY LINE (APPLICANT OWNED)		

	FRESHWATER WETLAND
	WETLAND TRANSITION AREA
	STATE OPEN WATER (TOP OF BANK)
	UPLAND FORESTED TRANSITION CONVERSION (MAINTENANCE/PERM)
	UPLAND FORESTED TRANSITION CONVERSION (TEMP EASEMENT)

0 120 240 360
SCALE IN FEET

AECOM
625 WEST RIDGE PIKE STE E-100
CONSHOHOCKEN, PA 19428
(810) 832-8500

KEVIN MCKEON
NEW JERSEY PROFESSIONAL ENGINEER
NO 24GE03258600

REFERENCE DRAWINGS	
DRAWING NO.	TITLE
GSE203-BASE	

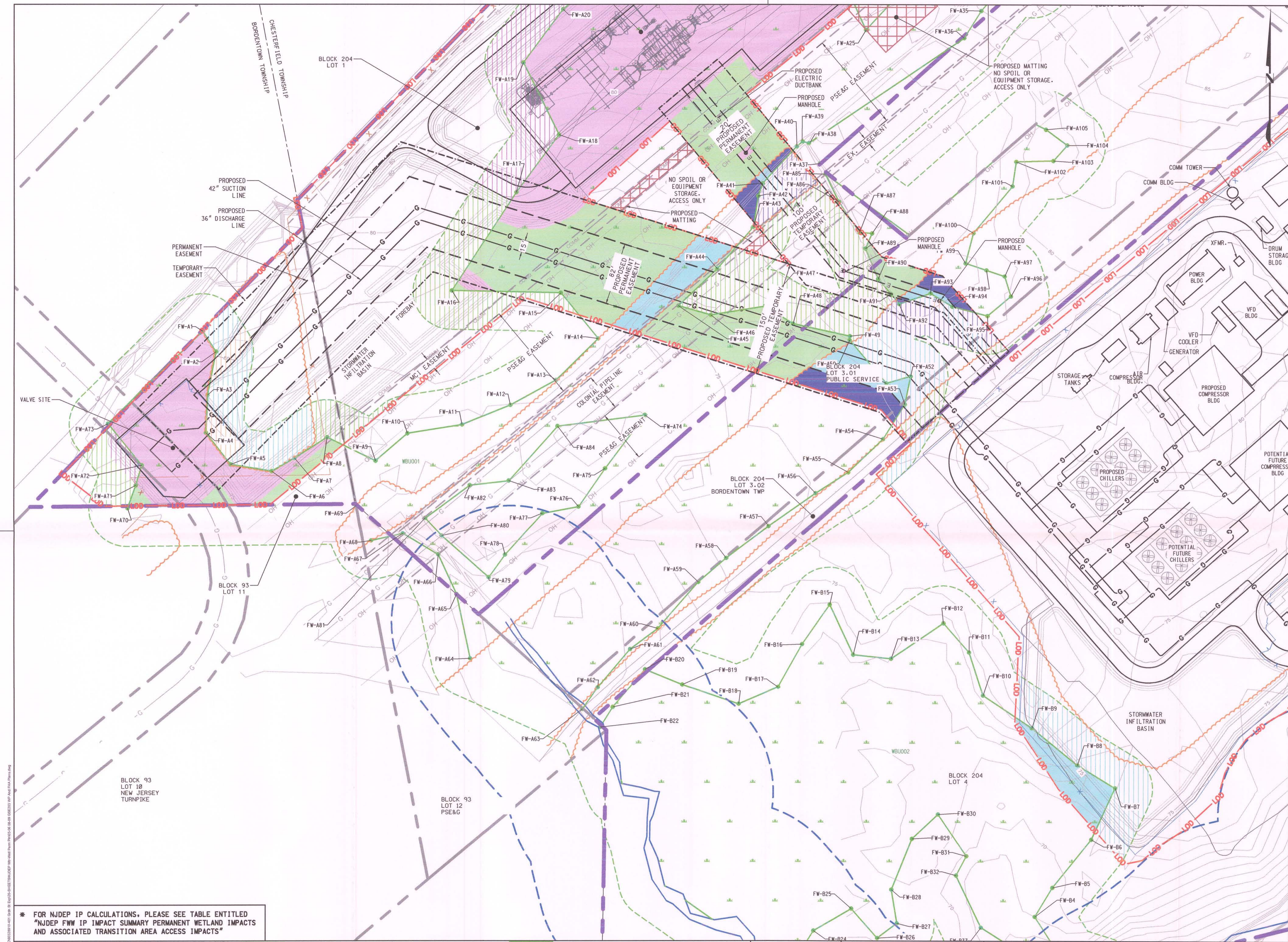
REVISIONS			
NO.	DATE	BY	DESCRIPTION
0	07/22/15	SMR	SUBMITTED TO NJDEP
1	10/12/15	PPH	REV'D TO ADDRESS NJDEP COMMENTS
2	11/30/15	PPH	REV'D TO ADDRESS NJDEP COMMENTS
3	12/30/15	PPH	NJDEP FHA SUBMISSION PER REV'D BASIN
4	01/08/16	PPH	NJDEP FHA SUBMISSION
5	01/13/16	PPH	NJDEP FWW SUBMISSION
6	03/17/16	PPH	NJDEP FWW SUBMISSION
7	05/24/16	PPH	NJDEP FWW SUBMISSION

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
GARDEN STATE EXPANSION PROJECT
STATION 203 AND CHESTERFIELD METER STATION
CHESTERFIELD TOWNSHIP, NEW JERSEY
INDIVIDUAL FRESHWATER WETLANDS PERMIT PLANS
COMPRESSOR STATION

DRAWN BY: SMR DATE: 07/22/15 SCALE: AS SHOWN
CHECKED BY: PH DATE: -
APPROVED BY: PH DATE: -
DRAWING NUMBER: F-1A-1
DATE: 3/30/16 PM
SHEET 3 OF 12

- NOTES:**
- SITE PLAN TIED TO NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD83 AND NAVD83).
 - FRESHWATER WETLANDS AND STATE OPEN WATERS DELINEATED BY AECOM IN APRIL & OCTOBER 2014.
 - THIS PLAN IS NOT BOUNDARY SURVEY BASED UPON N.J.S.A. 45:8-28(e), N.J.A.C. 13:40-1.3:40-5.1.
 - PLAN INFORMATION PROVIDED PER N.J.A.C. 7:7A-10.1(q).
 - NJDEP FIELD REVIEW CONDUCTED ON JULY 7, 2015.
 - ALL IMPACTS IDENTIFIED HEREIN ARE FOR AN INDIVIDUAL FRESHWATER WETLANDS AND FLOOD HAZARD ACT PERMIT UNLESS OTHERWISE SPECIFIED.
 - THE FOLLOWING LOTS ARE NOT INCLUDED WITHIN THE OWNER'S OVERALL PROPERTY BOUNDARY:
BLOCK 204 LOT 2 - PUBLIC SERVICE
BLOCK 204 LOT 3.01 - PUBLIC SERVICE
BLOCK 204 LOT 3.02 - BORDENTOWN TOWNSHIP
 - THE LIMIT OF DISTURBANCE (LOD) DOES INCLUDE PROJECT LIMITS ON THE FOLLOWING LOTS:
BLOCK 204 LOT 3.01 - PUBLIC SERVICE
BLOCK 204 LOT 3.02 - BORDENTOWN TOWNSHIP
 - FLOOD ELEVATIONS ARE IN NAVD88 COORDINATE SYSTEM
 - ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ON SITE.
 - THE LIMIT OF THE FLOOD HAZARD AREA WAS DETERMINED BY CALCULATION (METHOD 6) IN ACCORDANCE WITH N.J.A.C. 7:13-3.
 - LIMITS OF FLOOD HAZARD AREA ON SITE PLAN DEPICTED UNDER EXISTING CONDITIONS ON SITE.

FOR TEMPORARY AND PERMANENT EASEMENTS BETWEEN ELECTRICAL SUBSTATION AND COMPRESSOR STATION, SEE DRAWING F-1A-1, SHEET 4 OF 13.



**NJDEP FWW IP Impact Summary
Permanent Wetland Impacts and
Associated Transition Area Access Impacts
Associated with the Garden State Expansion Project**

Project Component	Permanent Wetland Impact ^a		Permanent Transition Area Access Impact ^b	
	Acres	Sq. Ft.	Acres	Sq. Ft.
82' Pipeline Permanent ROW	0.812	35,358	0.481	20,964
20' Electrical Conduit Permanent ROW	0.105	4,566	0.125	5,433
Electrical Substation	2.038	88,768	NA	NA
2 Areas of PFO within PSE&G ROW ^c	0.065	2,811	NA	NA
Pipeline Valve Site	0.545	23,745	0.106	4,599
Stormwater Basin	0.128	5,575	0.318	13,862
Total	3.692	160,812	1.030	44,858

Notes:
a: Permanent impact relates to wetland fill and also impacts within the limits of a permanent right-of-way (ROW) to be associated with the life of the utility.
b: Impact relates to access through adjacent transition areas that will be required for the life of the Project in order to complete activities such as maintenance.
c: Impact relates to two areas of forested wetland within the temporary construction ROW that is within the PSE&G ROW and therefore cannot be replanted and has been treated as a permanent forested conversion impact.

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- G PROPOSED SUCTION/DISCHARGE LINES
- E PROPOSED ELECTRIC DUCT BANK
- C EXISTING GAS PIPELINE
- OH EXISTING OVERHEAD ELECTRIC
- COMM EXISTING COMMUNICATIONS LINE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PARCEL LINE
- TOWNSHIP BOUNDARY
- PERMANENT/TEMPORARY EASEMENT
- EXISTING EASEMENT
- TREELINE
- LOD PROJECT LIMITS

- PEM WETLAND IMPACT (TEMPORARY)
- PEM WETLAND FILL (PERMANENT)
- PFO WETLAND CONVERSION (MAINTENANCE/PERMANENT)
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- UPLAND HERBACEOUS TRANSITION IMPACT (TEMPORARY)
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- UPLAND FORESTED TRANSITION FILL (PERMANENT)

- FRESHWATER WETLAND WETLAND FLAG
- WETLAND TRANSITION AREA
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NO 24GE03258600

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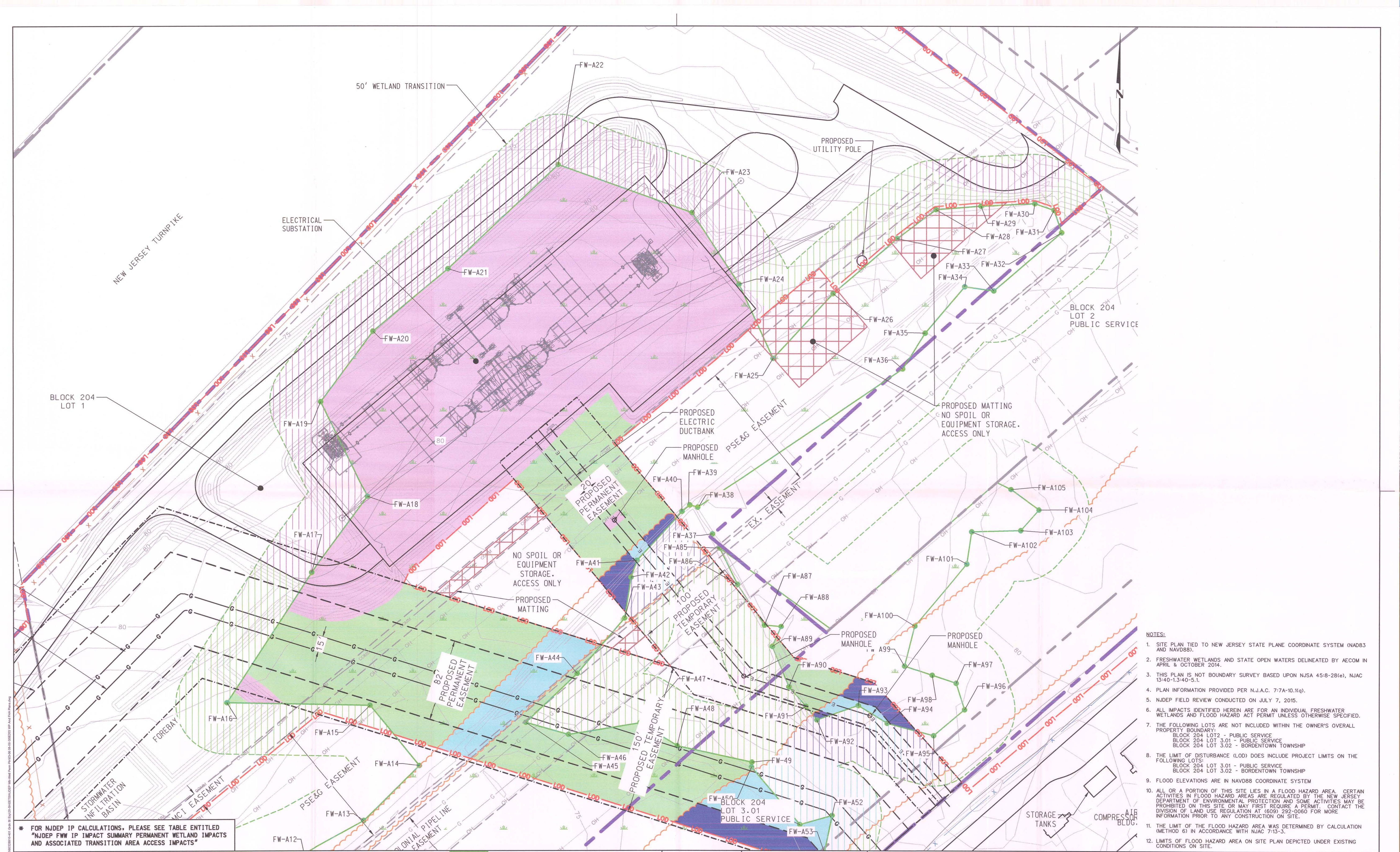
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GARDEN STATE EXPANSION PROJECT
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CHESTERFIELD TOWNSHIP, NEW JERSEY
INDIVIDUAL FRESHWATER WETLANDS PERMIT PLANS
VALVE SITE & PIPELINE/ELECTRIC CONDUIT

W.D. NO. 1165555 KDM HB
C.K. 1165555 KDM HB
A.P. 1165555 KDM HB
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	PARCEL LINE		
	TOWNSHIP BOUNDARY		
	PERMANENT/TEMPORARY EASEMENT		
	EXISTING EASEMENT		
	TREELINE		
	PROJECT LIMITS		

FRESHWATER WETLAND

- FW-A12 WETLAND FLAG
- WETLAND TRANSITION AREA
- STATE OPEN WATER (TOP OF BANK)
- PROPERTY LINE (APPLICANT OWNED)
- UPLAND FORESTED TRANSITION CONVERSION (MAINTENANCE/PERM)
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SCALE IN FEET

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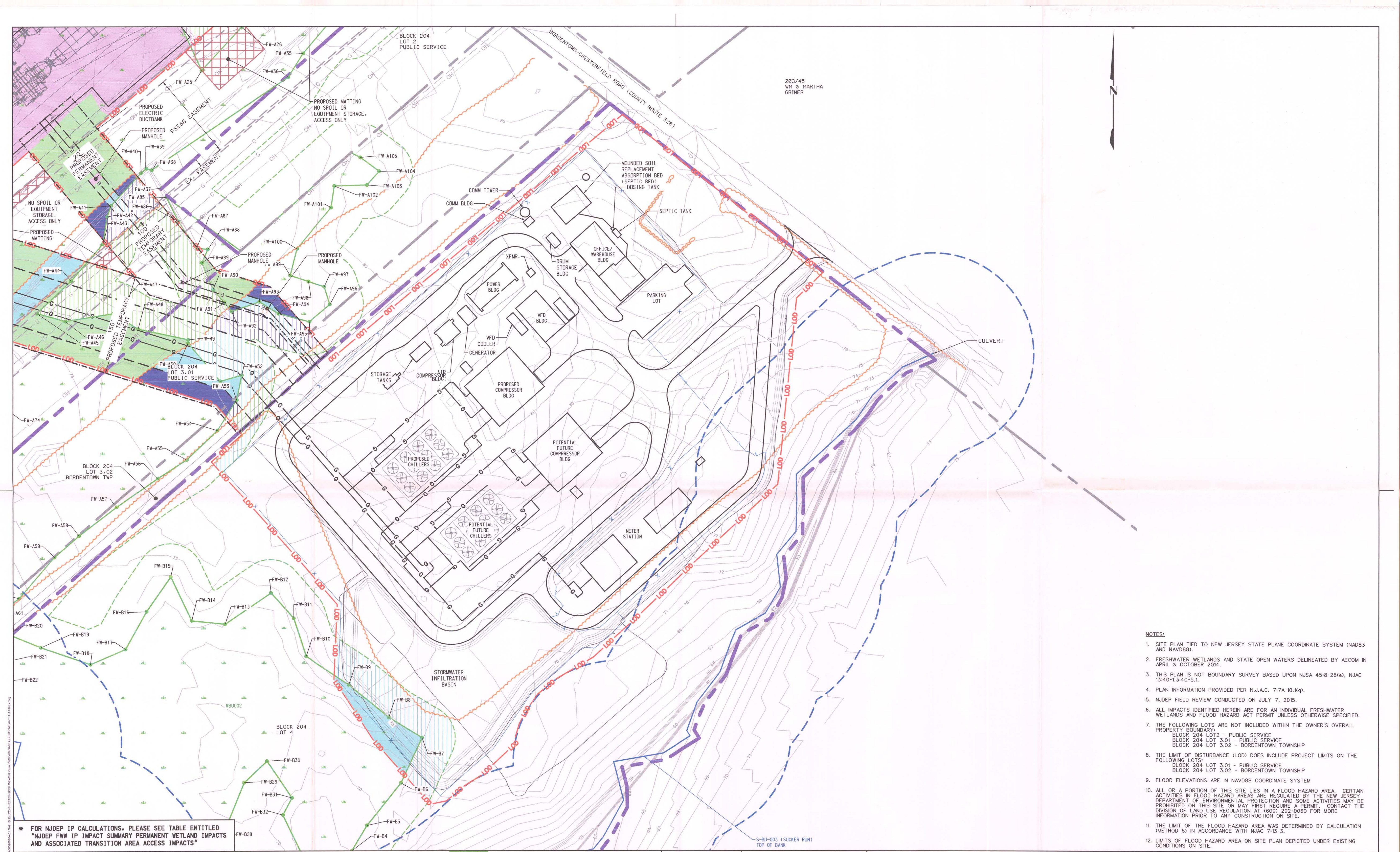
KEVIN MCKEON

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6SE203-BASE		0	07/22/15	SMR	SUBMITTED TO NJDEP	1165555	KDM	HB
		1	10/12/15	PPH	REV'D TO ADDRESS NJDEP COMMENTS	1165555	KDM	HB
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CHESTERFIELD TOWNSHIP, NEW JERSEY
INDIVIDUAL FRESHWATER WETLANDS PERMIT PLANS
ELECTRICAL SUBSTATION

DRAWN BY: SMR DATE: 07/22/15 SCALE: AS SHOWN
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 APPROVED BY: HB DATE: -
 W.D. NO.: 1165555
 DRAWING NUMBER: F-1A-1
 SHEET 5 OF 12



203/45
WM & MARTHA
GRINER



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	LOD PROJECT LIMITS		

	FRESHWATER WETLAND		FW-A12 WETLAND FLAG
	WETLAND TRANSITION AREA		
	STATE OPEN WATER (TOP OF BANK)		
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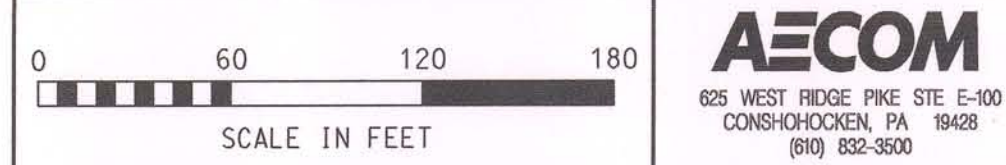
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AECOM
625 WEST RIDGE PIKE SUITE E-100
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