

November 26, 2019

Via UPS Ground

Town of Hackettstown Zoning Board of Adjustment Municipal Building 215 Stiger Street Hackettstown, New Jersey 07840

Attn.: Ms. Shannon Drylie

Land Use Board Secretary

Re.: Town of Hackettstown, County of Warren, State of New Jersey

700 High Street

M&M Mars Trailer Parking Lot Our File No.: SCE-R08719.074

Dear Ms. Drylie:

SUBURBAN CONSULTING ENGINEERS, INC. (SCE) has received the completeness review letter from the Hackettstown Engineer dated April 18, 2019 regarding the above referenced project. SCE, representing Mars North America, is making a resubmission to address the completeness items; revised documents included in this submission are as follows:

- 18 Copies of Preliminary and Final Site Plans, last revised November 12, 2019, Revision B
- 18 Copies of Highlands Council Consistency Determination and Exemption
- 18 Copies of Revised Application Checklists
- 18 Copies of MS4 NJPDES Permit Major Development Stormwater Summary Sheet

Please note that 2 copies of all documents listed above have also been delivered directly to the office of Maser Consulting.

In addition, please see SCE's responses to each comment in bold below:

Completeness Comments

General Comments

1. The checklists furnished with the application are on outdated forms. The most current checklists are dated October 2018 and can be found in the Land Development Ordinance (LDO) on the Town's website. All checklists need to be revised and resubmitted to be on the October 2018 forms.

All checklists are revised to be on the October 2018 forms and have been resubmitted as part of this application.



2. The applicant was required under the June 19, 2018 resolution to commence demolition of the wastewater pre-treatment plant that was approved in 1992 prior to March 31, 2019. The Board must determine from the applicant if the demolition has commenced. If not, the applicant should address if it is seeking under this application to extend the timeframe for the demolition of the prior wastewater pre-treatment plant.

Mars has completed abatement for the demolition of the prior wastewater pre-treatment plant. Further, structural inspections, utility verification and additional investigations have occurred to allow for Mars to solicit contractors for the demolition. The sludge removal began the week of 11/17/2019 and is ongoing. Additional testimony can be provided by Mars regarding the subject.

Variance Checklist

- 1. Based upon a review of the submission vs the checklist, the following deficiencies were identified:
 - a. A certificate from the Tax Collector indicating that tax payments are current on Lot 1 in Block 4 was not furnished (Page 2).

The certificate has been provided under separate cover.

b. A sixty-year title search was not furnished (Page 2).

The sixty-year title search has been provided under separate cover.

The above deficiencies must be addressed by the applicant.

- 2. The applicant has requested the following submission waiver:
 - a. The location of existing and proposed property lines (with bearings and distances), streets, structures (with their numerical dimensions and an indication as to whether existing structures will be retained or removed), parking spaces, loading areas, driveways, watercourses, railroads, bridges, culverts, drain pipes, any natural features such as wetlands and treed areas, both within the tract and within one hundred (100) feet of the property boundary (Page 2).

The applicant is seeking a partial waiver of the above checklist item since the project is proposed within a limited area within the overall 60.18± acre tract.

The Board must obtain testimony from the applicant and its professional representatives to augment the information included in the Waiver Request Statement.

The partial waiver request appears reasonable based upon our review given the limited area of the Mars' facility that is affected by this project.

Testimony can be provided.

Preliminary Major Site Plan Checklist

- 1. Based upon a review of the submission vs. the checklist, the following deficiencies were identified:
 - a. A certificate from the Tax Collector indicating that tax payments are current on Lot 1 in Block 4 was not furnished (Page 3).

The certificate has been provided under separate cover.

b. A consistency determination from the Highlands Council indicating that the project is consistent with the Highlands Regional Master Plan and the Town's approved Highlands petition was not furnished (Page 4).



The Highlands Council revisited the prior exemption provided for the new wastewater treatment plant project and determined to modify the prior approval in conjunction with this project. Therefore, included in this application is a Consistency Determination for the new wastewater treatment plant and an Exemption for the subject trailer parking lot project.

c. A sixty-year title search was not furnished (Page 4).

The sixty-year title search has been provided under separate cover.

d. A "Major Development Stormwater Summary Sheet" was not completed and submitted for the proposed subsurface stormwater management facility (Page 4).

A Major Development Stormwater Summary Sheet is included in the resubmission. As portions of this form are dependent upon construction, the form will be updated upon completion and resubmitted to the Town.

The above deficiencies must be addressed by the applicant.

- 2. The applicant has requested the following full waivers and partial waivers from the submission requirements:
 - a. The proposed location of proposed plantings (Page 2).

Plantings have been added to the proposed plan set (see Sheet 8, Landscape and Lighting Plan). The checklist is revised to no longer request a waiver.

b. A screening and buffering plan (Page 3).

Plantings have been added to the proposed plan set (see Sheet 8, Landscape and Lighting Plan). The checklist is revised to no longer request a waiver.

c. The location of existing utility structures on the tract and within 200 feet of the boundaries (Page 3).

Waiver still requested; testimony to be provided, if required.

d. The proposed number of shifts to be worked, the maximum number of employees on each shift, and the hours of operation (Page 3).

The trailer parking lot project is to provide on-site dedicated storage for mostly empty tractor trailers. The trailers are left empty until finished product (wrapped candy) is ready to be shipped at which point, a yard jockey is used to move the trailer to the loading docks. Typically, the loaded trailer will then leave the site, but occasionally, a loaded trailer will be parked in the subject lot until it is ready for shipment.

To support the two (2) twelve-hour operational shifts at Mars which run from 7:30-7:30, there are and will continue to be one to two yard jockeys on staff 24/7. The proposed project projects no change in staffing, rather all trailers will be on site in one location versus throughout the site and at an off-site location.

e. The submission of an Environmental Impact Statement (Page 4).

Waiver still requested, testimony to be provided if required.

The Board must obtain testimony from the applicant and its professionals to justify the full and partial submission waivers that have been requested.

With respect to the waiver summarized in Comment 2d above, the Board may want to have information in advance of the hearing on the use and operation of the truck and trailer parking lot since there is an



established residential neighborhood immediately to the west and the facility is proposed to be located within the front yard of the property.

Similarly, the Board may want to have some of the information required in an environmental impact statement (traffic, noise) submitted in advance of the hearing given the facility's location and the fact that the Town has been contacted regarding noise from trucks on this site already.

Currently, Mars stores empty trailers in various locations throughout their site and at Rogers Rentals, on Route 46 in Hackettstown. The empty trailers are stored until finished product is ready to be loaded and usually, immediately following loading, the tractor trailer leaves the site. Tractor trailers will continue to leave the site from the northern exit as they do today. This project will not increase the amount of tractor trailers being used as part of the operation of the Hackettstown site, and therefore, it is not anticipated to have any traffic impact.

Mars will review the noise complaints and determine if operational changes can be made to reduce the noise to the adjacent residents. Trucks are required to be loaded 24/7 to support the operation at the site, but with the storage of the trailers at the subject site, there should be less running truck noise when compared to storing them offsite. Further, Mars is reviewing their policies to determine if back-up beepers can be reduced or turned off if the trailers are in an isolated lot with access only by the jockey. Additional testimony can be provided regarding the operation of the site.

- 3. The application has indicated that the following checklist items are "not applicable":
 - a. NJDEP report on stream alterations (Page 2).
 - b. Watercourse cross-sections (Page 2).
 - c. The location and extent of drainage and conservation easements (Page 2).
 - d. Plans, typical cross-sections, and details of existing and proposed streets (Page 3).
 - e. The location and width of existing and proposed utility easements (Page 3).
 - f. Proposed monuments (Page 3).
 - g. HMUA application forms (Page 3).
 - h. Historic Impact Statement (Page 4).
 - i. Planned development information (Page 4).

We agree with the "not applicable" designations indicated by the applicant for the above noted checklist items.

Final Major Site Plan Checklist

- 1. Based upon a review of the submission vs. the checklist, the following deficiencies were identified:
 - a. A certificate from the Tax Collector indicating that tax payments are current on Lot 1 in Block 4 was not furnished (Page 1).

The certificate has been provided under separate cover.

b. A consistency determination from the Highlands Council indicating that the project is consistent with the Highlands Regional Master Plan and the Town's approved Highlands petition was not furnished (Page 1).

The Highlands Council revisited the prior exemption provided for the new wastewater treatment plant project and determined to modify the prior approval in conjunction with this project.



Therefore, included in this application is a Consistency Determination for the new wastewater treatment plant and an Exemption for the subject trailer parking lot project.

c. A "Major Development Stormwater Summary Sheet" was not completed and submitted for the proposed subsurface stormwater management facility (Page 1).

A Major Development Stormwater Summary Sheet is included in the resubmission. As portions of this form are dependent upon construction, the form will be updated upon completion and resubmitted to the Town.

The above deficiencies must be addressed by the applicant.

- 2. The applicant has requested the following waivers from the submission requirements:
 - a. Letters from utility companies regarding utility service (Page 1).
 - b. Certification from the applicant that either the proposed improvements have been installed or a performance guarantee was posted to ensure that the improvements will be constructed in accordance with the approved plans (Page 1).
 - c. The submission of a statement from the Town Engineer indicating that all installed improvements have been inspected (Page 1).

The Board must obtain testimony from the applicant and its professional representatives to justify the waiver requests.

Testimony can be provided.

Please be advised that we have no objections to the above noted waiver requests since the area is already served by utilities and no construction has commenced on the improvements.

At this time, it is our understanding that this letter addresses all of your comments. If you require any additional information or have any questions, please do not hesitate to contact our office. Thank you.

Very truly yours,

SUBURBAN CONSULTING ENGINEERS, INC.

Erin B. Abline, PE

Project Manager/Department Manager

mrh/

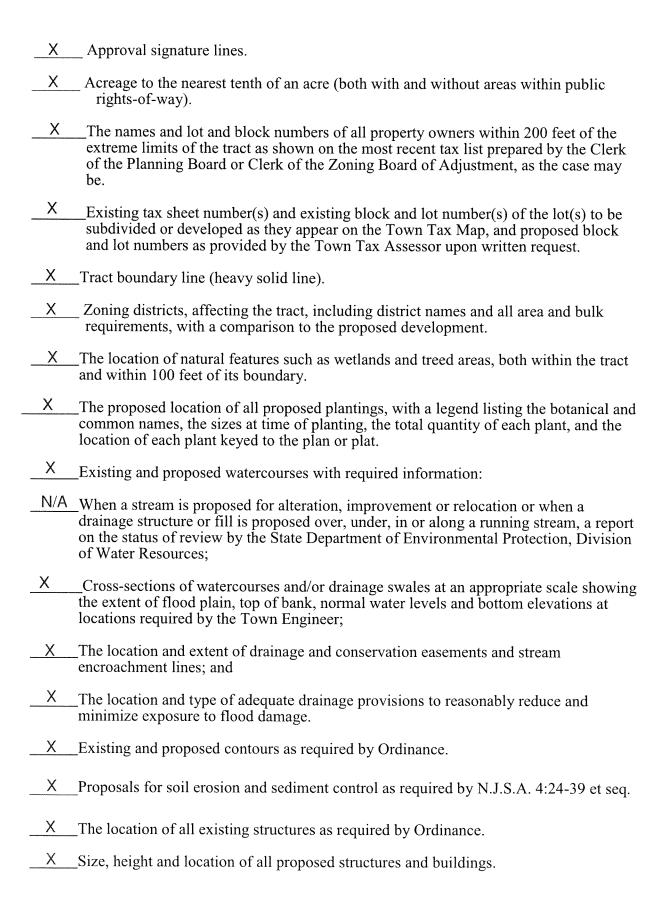
Enclosures

::::CHECK LIST::::

Details required for Preliminary Major Subdivision Plats and Preliminary Major Site Plans

Note: See Section 804 of the Hackettstown Land Development Ordinance for further details of submission requirements and procedures.

X	_Application Form(s) and Checklist(s) (20 copies).
X_	_Plats or Plans (20 copies) signed and sealed by a N.J. Professional Engineer and folded into eighths with title block revealed.
X	_Protective Covenants, Easements and/or Deed Restrictions (20 copies).
X	Scale of not less than $1" = 100'$ on one of four of the following standard sheet sizes ($8\frac{1}{2}$ " x 13 "; 15 "x 21 "; 24 "x 36 "; or 30 " x 42 "
X	Key map at not more than 1"=1000'.
X	_ Title block:
X	_Name of subdivision or development, Town of Hackettstown, Warren County, with each sheet specifically titled with appropriately descriptive words;
X	Name, title, address and telephone number of subdivider or developer; Name, title,
	address and license number of the professional or professionals who prepared the plot or plan;
X	Name, title and address of the owner or owners of record; North arrow;
X	Scale (written and graphic);
X	Date of original preparation and of each subsequent revision thereof and a list of specific revisions entered on each sheet; and
X	Names and addresses of partners or stockholders as required by Ordinance.
X	Certification of ownership or authorization to file application.



X	_All dimensions necessary to confirm conformity to the Ordinance requirements.
X	_The proposed location, direction of illumination, power and type of proposed outdoor lighting, including details and luminaries.
X	_The proposed screening, buffering and landscaping plan, with the information required by Ordinance.
X	_The location and design of any off-street parking area, showing size and location of bays, aisles and barriers.
X	_All means of vehicular access or egress to and from the site onto public streets, with the information required by Ordinance.
X	_Plans and computations for any storm drainage systems as required by the Town Engineer.
W	_The location of existing utility structures on the tract and within 200 feet of its boundaries.
X	Plans of proposed improvements and utility layouts as required by Ordinance; and required letters from appropriate State and County agencies granting approval for the extension of utility service(s).
N/A	_Plans, typical cross sections and construction details, horizontal and vertical alignment of the centerline of all proposed streets and of existing streets abutting the tract as required by Ordinance.
X	_A copy of any protective covenants or deed restrictions applying to the land being developed or an indication of them on the submitted plat or plan.
X	_The location and width of all existing and proposed utility easements, the use(s) for which they are intended to be limited, and the manner in which the easements will be controlled.
<u>N/A</u>	_Proposed permanent monuments.
X	_The proposed number of shifts to be worked, the maximum number of employees on each shift, and the hours of operation.
X	_Five (5) copies of a certificate from the Town Tax Collector indicating that all taxes and assessments are paid to date.
X	_Five (5) copies of the completed application to the Warren County Planning Board, if applicable.
N/A	_Five (5) copies of the completed application to the Hackettstown Utilities Authority, if applicable.
X	All preliminary major subdivision and/or preliminary major site plan applications shall be accompanied by a grading plan in accordance with Section 804B.37 of this Ordinance.

W All preliminary major subdivision and/or preliminary major site plan applications shall be accompanied by an Environmental Impact Statement in accordance with Section 804 C. of this Ordinance. N/A An Historic Impact Statement, if applicable, in accordance with Section 806 E. of this Ordinance. A sixty-year title search dated within 6 months of the application date including copies of all deeds, easements, covenants, restrictions and other items affecting title to the property. In the case of any subdivision or site plan submission of a planned development, all of the required information for all of the properties comprising the planned development. The Board reserves the right to acquire additional information before granting preliminary approval when unique circumstances affect the tract and/or when the application for development poses special problems for the tract and the surrounding area. Such information may include, but not be limited to, drainage calculations and traffic analyses, provided however that no application shall be declared incomplete for lack of such additional information. Highlands Consistency Determination or, in the alternative, documentation per Section 807 of the Land Development Ordinance entitled "Highlands Area Exemption Ordinance" that shows that the application is exempt from the Highlands Act. X A "Major Development Stormwater Summary Sheet" shall be submitted when a stormwater management basin is proposed on a project.

Signature and Title of person who prepared check list.

Date

::::CHECK LIST:::: Details required for Variance Applications

Note: See Section 802 C. of the Hackettstown Land Development Ordinance for further details of submission requirements and procedures.

_X	_ Application Form(s) and Checklist(s)(20 copies).
_X	Plats or Plans (20 copies) signed and sealed by a N.J.P.L.S. or N.J.P.E., as required, and folded into eighths with title block revealed.
Χ	Scale of not less than $1" = 100'$ on one of four of the following standard sheet sizes (8 $1/2"$ x $13"$; $15"$ x $21"$; $24"$ x $36"$; or $30"$ x $42"$).
_X	Key map at less than 1"=1000'.
X	Title block:
X	Name of subdivision or development, Town of Hackettstown, Warren County, with each sheet specifically titled with appropriately descriptive words;
X	Name, title, address and telephone number of subdivider or developer;
Х	Name, title, address and license number of the professional or professionals who prepared the plot or plan;
Х	Name, title and address of the owner or owners of record;
X	North arrow;
X	Scale (written and graphic);
X	Date of original preparation and of each subsequent revision thereof and a list of specific revisions entered on each sheet; and
Х	Names and addresses of partners or stockholders as required by Ordinance.
Χ	Acreage figures (both with and without areas within public rights-of-way).
Х	Approval signature lines.
X	Existing block and lot number(s) of the lot(s) to be subdivided or developed as they appear on the Town Tax Map, and proposed block and lot numbers as provided by the Town Tax Assessor upon written request.

X	_ Tract boundary line (heavy solid line).
X	The location of existing and proposed property lines (with bearings and distances), streets, structures (with their numerical dimensions and an indication as to whether existing structures will be retained or removed), parking spaces, loading areas, driveways, watercourses, railroads, bridges, culverts, drain pipes, any natural features such as wetlands and treed areas, both within the tract and within one hundred feet (100") of its boundary.
_X	The location and width of all existing and proposed utility easements, the use(s) for which they are intended, and the manner in which the easements will be controlled.
X	Zoning districts affecting the tract, including district names and all area and bulk requirements, with a comparison to the proposed development.
X	Proposed buffer and landscaped areas.
X	Delineation of flood plains, including both floodway and flood fringe areas. Contours as shown on the U.S.G.S. topographic sheets.
X	Marshes, ponds and land subject to flooding within the tract and within one hundred feet (100') thereof.
_X	The names of all adjacent property owners as they appear on the most recent tax list prepared by the Clerk of the Planning Board or Clerk of the Zoning Board of Adjustment, as the case may be.
X	Five (5) copies of a certification from the Town Tax Collector indicating that all taxes and assessments are paid to date.
N/A	_Concerning subdivisions only, existing and proposed monuments.
N/A	_Road right-of-way dedication and improvement, as applicable.
N/A	Sight triangle easements, as applicable.
N/A	Deed descriptions (including metes and bounds), easements, covenants, restrictions, and roadway dedications.
X	_A sixty-year title search dated within 6 months of the application date including copies of all deeds, easements, covenants, restrictions and other items affecting title to the property.
X	Highlands Consistency Determination or, in the alternative, documentation per Section 807 of the Land Development Ordinance entitled "Highlands Area Exemption Ordinance" that shows that the application is exempt from the Highlands Act.
X	A "Major Development Stormwater Summary Sheet" shall be submitted when a stormwater management basin is proposed on a project.
Ch	uBa- 11-25-19
Signatu	re and Title of person who prepared check list Date

::::CHECK LIST::::

Details required for Final Major Subdivision Plats and Final Major Site Plans

Note: See Section 805 of the Hackettstown Land Development Ordinance for further details of submission requirements and procedures.

Subillis	sion requirements and procedures.
X	Application Form(s) and Checklist(s)(20 copies).
<u>X</u>	Plats or Plans (20 copies) signed and sealed by a N.J.P.L.S. or N.J.P.E., as required, and folded into eighths with title block revealed.
_X	Scale of not less than 1" = 100' on one of four of the following standard sheet sizes (8 1/2" x 13"; 15" x 21"; 24" x 36"; or 30" x 42").
X	All details stipulated in Subsection 804 B. of the Ordinance.
_X	All additional details required at the time of preliminary approval.
_X	_ A section or staging plan, if proposed.
X	Detailed architectural and engineering data as required by Ordinance.
Χ	Certification from the Town Tax Collector indicating that all taxes and assessments are paid up-to-date.
N/A	Letters directed to the Chairman of the Board and signed by a responsible official of all utility companies, etc., providing service to the tract as required by Ordinance.
_W	Certification in writing from the applicant to the Board that the applicant has:
	 (a) Installed all improvements in accordance with the requirements of the Ordinance; and/or, (b) Posted a performance guarantee in accordance with Section 902 of the Ordinance.
W	A statement from the Town Engineer indicating that all installed improvements have been inspected.
X	Highlands Consistency Determination or, in the alternative, documentation per Section 807 of the Land Development Ordinance entitled "Highlands Area Exemption Ordinance" that shows that the application is exempt from the Highlands Act.
<u>X</u>	A "Major Development Stormwater Summary Sheet" shall be submitted when a stormwater management basin is proposed on a project.
Or	us 11-25-19
Signati	ure and Title of person who prepared check list Date

Attachment D - Major Development Stormwater Summary

		Gener	al Informa	tion			
1.	Project Name: Mars North America - Trailer Parki		ar milomin	1011			
2.	Municipality: Hackettstown	County: War	· on	Ploc	ck(s): 4		0+/c).1
3.	Site Location (State Plane Coordinates -				JK(5). 4	N: 739,666.485	_ot(s):1
4.	Date of Final Approval for Construction					14. 739,000.463)
	Date of Certificate of Occupancy:	ay wamerpe					
5.	Project Type (check all that apply):						######################################
	Residential Commercial Ind	ustrial 🗸	Other (plea	se specify	y)		
6.	Soil Conservation District Project Numb	er: 19039	***************************************	***************************************			
7.	Did project require an NJDEP Land Use	Permit?	Yes⊙	NoO	Lane	d Use Permit #	; 2108-19-0002.1 - 190001
8.	Did project require the use of any mitig	ation measu	res? '	/es〇	No⊙		
	If yes, which standard was mitigated? _						
		Cita Dani	C:::				
1.	Area of Disturbance (acres): 2.86		gn Specific			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
2.	List all Hydrologic Soil Groups: Udorthents-Ur		of Propose	a imperv	ious (acr	res): reduction of 0	0.15 acres
	Please Identify the Amount of Each Best		nt Practice	r (DMADa) I	Itilizadi	in Design Rela	
.	Bioretention Systems Constru						
	Infiltration Basins Combination	Infiltration/D	etention Ba	sins	 Manufa	actured Treatme	ent Devices
	Pervious Paving Systems	Sand Filters	Veg	etative Filt	er Strips _.	Wet Por	nds
	Grass Swales Subsurfac	ce Gravel Wet	lands	Other			
		Storm E	vent Inform	ation			
Sto	rm Event - Rainfall (inches and duration)		2 yr.: (3.3in, 24			10	1 9in, 24hr\
	meres and duration)	•	2 yı (0.0, 2			10 yr.: <u>(</u>	
i			100 yr.: <u>(7.8</u>	in, 24hr)		WQDS:	(1.25in, 2hr)
						0.5.	
Rur	off Computation Method:						
N	RCS: Dimensionless Unit Hydrograph	NRCS: Deln	narva Unit	Hydrograp	ph 🗌	Rational	Modified Rational
	Othe	er:			W-1-0-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-		
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		Specificatio					
1.	Type of Basin: Detention	ore than one b		<u>`</u>		onal. Curfosa	O Culasuufaas O
2.	Owner (select one):		Surrace/3	ubsuriace	e (seiect	one): Surface	○ Subsurface ○
۷.	OPublic	OPrivate: I	fsa Nama	Mars North	America	Dhono nu	ımber: 1-908-914-5118
3.	Basin Construction Completion Date:	OT HVate. I	1 30, Name			Filone nu	illiber. 1 300 314 3110
4.	Drain Down Time (hr.):		<u>.</u>				
5.	Design Soil Permeability (in./hr.): .006018						
6.	Seasonal High Water Table Depth from I		sin (ft 1. 26		D-	ate Obtained:	1/28/2010
7.	Groundwater Recharge Methodology (so)ifference			
8.	Groundwater Mounding Analysis (select					hodology Use	
9.	Maintenance Plan Submitted: Yes	No ①		in Deed R			NoO
			15 the Bas	Deca I		<u>u. 1030</u>	

Comments:

Title: Department Manager

Name of Person Filling Out This Form: Erin B Abline, PE



PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

State of New Jersey

Highlands Water Protection and Planning Council
100 North Road (Route 513)
Chester, New Jersey 07930-2322
(908) 879-6737
(908) 879-4205 (fax)
www.highlands.state.nj.us



CARL J. RICHKO
Chairperson

LISA J. PLEVIN
Executive Director

August 9, 2019

Shannon Drylie, Land Use Board Clerk Town of Hackettstown 215 W Stiger Street Hackettstown, New Jersey 07840

Peter D. Chandler, PE 96 US Highway 206 Suite 101 Flanders, New Jersey 07836

Re: Consistency Determination #CD19-007

Mars Inc. - Trailer Parking and Wastewater Treatment Facility

Town of Hackettstown, Warren County

Finding: Exempt and Consistent Subject to Specified Conditions

Dear Ms. Drylie and Mr. Chandler:

The Highlands Council is in receipt of the above-referenced application for a Consistency Determination. The application was received by the Highlands Council on July 19, 2019. The proposed project, located in the Planning Area of the Town of Hackettstown, consists of a new wastewater treatment facility and reconfigured impervious surface for tractor-trailer parking.

In November of 2014, the applicant applied for and received a Highlands Planning Area Exemption # 4 to build a wastewater treatment facility with impervious surface of 40,289 square feet accompanied by a removal of 68,109 square feet of impervious surface. The removal of impervious surface did not occur and is now a component of this application. Because the removal of impervious surface did not occur, the Highlands Council recognizes that the findings of the November 2014 exemption have changed and therefore rescinds the granted exemption. Based on these facts the Highlands Council has bifurcated its review to consider the consistency determination application for the wastewater treatment plant, and the proposed tractor-trailer parking under Highlands Planning Area Exemption # 4.

Highlands Council staff has completed the review of the proposed project for consistency with the Highlands Act, the Regional Master Plan, and the Town of Hackettstown Draft Highlands Area Land Use Ordinance. Attached please find our Consistency Determination, which finds the wastewater treatment plant is "Consistent Subject to Specified Conditions" and the tractor-trailer parking project is exempt. Please be advised that Highlands Council conditions shall be incorporated into any

action taken by the Land Use Board regarding this project; however, the Land Use Board may modify the wording of condition(s), as long as the spirit and intent of the condition(s) remains. Final planning documents must include all required design modifications and/or provide other appropriate information as to the mechanisms by which all Highlands Council conditions will be satisfied.

Should you have any questions regarding this Consistency Determination, please do not hesitate to contact Corey Piasecki, at corey-piasecki@highlands.nj.gov or 908-879-6737 ext. 129.

Sincerely

Lisa J. Plevj

Executive Director

Enclosure

c: Al Camporini, Land Use Board Chair Paul Sterbenz P.E., Township Engineer



State of New Jersey Highlands Water Protection and Planning Council CONSISTENCY DETERMINATION



Mars Chocolate North America CD#2019-007

700 High Street

Block 4 Lot 1

Town of Hackettstown, Warren County

August 6, 2019

Applicant:	Mars Chocolate North America, LLC
	700 High Street
	Hackettstown, NJ 07840

	PROJECT I	NFORMATIO:	
Highlands LUCM:	Existing Community Zone	Highlands Area:	Planning Area
Project Cumma	Tr. Davidos a dassessas de la	. (* -7*.	

Project Summary: Develop a new wastewater treatment facility.

Information Received on 7/19/19:

- 1. One (1) completed Application for Consistency Determination;
- 2. One (1) completed copy of the Highlands Council Standards for Digital Plan Submissions;
- 3. One (1) copy of Preliminary and Final Site Plan set of drawings, dated 4/3/2015;
- 4. One (1) signed copy of Town of Hackettstown ZBA Resolution Memorialization of Application number ZB 14-05 memorialized June 19, 2018;
- 5. One (1) copy of Town of Hackettstown ZBA Resolution Memorialization of Application Number Z-14-05 memorialized December 16, 2014
- 6. One (1) copy of Town of Hackettstown ZBA Resolution of Memorialization, memorialized January 21, 1992;

Supplemental Information:

- 1. AutoCAD drawing files
- 2. Municipal Communications (various dates)

Finding: Consistent with Conditions

PROJECT REVIEW

Highlands Resources:

- A. Highlands Open Waters/Protection Area: An unnamed wetland north of the site creates a Highlands Open Water Protection Area within the site. The Highlands Open Water Protection Area is previously disturbed.
- B. Carbonate Rock: The entirety of the site lies within a mapped carbonate rock area. The applicant will follow local requirements for geotechnical investigation and remediation of karst features.

Stormwater Review:

Proposed stormwater facilities consist of a new retention basin. The basin will be located off the northern edge of the project area and will provide stormwater management and emergency containment for the treatment plant. The geologic characteristics of the wastewater management plant area and required spill/pollution containment features of the basin make infiltration and mitigation of stormwater runoff through native plantings impractical. Mitigation will be accomplished through site design and stormwater management planning in the vicinity of the associated, exempt tractor-trailer parking.

CONDITIONS

Condition #1: A Stormwater Management Report and Stormwater Management Facilities Operation & Maintenance Manual for the tractor-trailer parking site shall be provided to the Highlands Council for review. The applicant shall incorporate low impact development/green infrastructure strategies for stormwater management on the site to the maximum extent practicable.

Basis for Condition:

RMP Objective 2G5b: Require Low Impact Development and other Best Management Practices standards for stormwater management to minimize the discharge of stormwater-entrained pollutants to ground and surface waters.

RMP Objective 6N2a: Implementation of on-site stormwater management features that maintain, restore and enhance the pre-existing natural drainage patterns of the site.

RMP Objective 6N2d: Minimum requirements that stormwater management systems employ a "design with nature" approach.

Condition #2: A Landscape Plan shall be prepared for the tractor-trailer parking site which includes plantings in support of proposed green stormwater infrastructure efforts. The final Landscape Plan shall be provided to the Highlands Council for review and approval. (Please find the Highlands Council Draft Recommended Native Plantings list for Warren County for appropriate plant species attached to this document.)

Basis for Condition:

RMP Objective 6N1d: Minimum requirements for water conservation measures in site layout and structures, including but not limited to water efficient landscaping (including use of native and drought-tolerant plant species), rain collection systems, use of gray water, and water-efficient landscape irrigation.

RMP Site Design and Development Guidelines: A landscape plan shall be submitted with each project which incorporates native, drought-tolerant, disease-resistant plant species and does not include invasive plant species. Natural landscaping shall be considered for use when feasible.

Non-native and invasive species disrupt local ecosystems and can prevent regeneration of indigenous plant species. Use of native, drought-tolerant species should minimize watering needs while increasing chances of achieving hardier, longer-lasting landscaping elements, by taking advantage of plant adaptations to local conditions including climate, soils, insects, fauna, etc.

<u>Condition #3</u>: Copies of the final approved site plans (one digital copy), supporting documents, and approving resolution shall be submitted to the Highlands Council.

Basis for Condition: As required under the Hackettstown Town Highlands Referral Ordinance (Ordinance #2012-02, adopted March 8, 2012) amending submission requirements for applications for development, no Application for Development may be considered by the Township land use board until the project has been deemed consistent by the Highlands Council. The Highlands Council seeks to ensure that any conditions placed on a finding of consistency are properly incorporated into the local approval process, and if/when such projects are approved by the local board, that all relevant conditions are addressed.

Table 1G – Recommended Native Plants – Warren County
Trees & Shrubs

			T CC3 & SII	. 4.00				
Scientific Name	Common Name	Growth Habit	Wetland Status ¹	Height (ft.)	Legal Status	Drought Tolerant	NJ Stormwater BMP Manual	NRCS Riparian Forest Buffer Conservation Practice Std.
Acer rubrum	red maple	Tree	FAC	40-60		х	×	X
Acer saccharinum	silver maple	Tree	FACW	50-70			×	**************************************
Acer saccharum	sugar maple	Tree, Shrub	FACW	90				X
Alnus serrulata	hazel alder	Tree, Shrub	OBL	to 20			x	
Amelanchier canadensis	Canadian serviceberry	Tree, Shrub	FAC	20-30		х		X
Arctostaphylos uva-ursi	Bearberry	Subshrub, Shrub	UPL	0.5		x		
Betula lenta	sweet birch	Tree	FACU	50-55				II. L
Betula nigra	river birch	Tree	FACW	80			X	X
Betula populifolia	gray birch	Tree	FAC	20-25		Х	x	
Carpinus caroliniana	American hornbeam	Tree, Shrub	FAC	40-60	8000 Arminenses and Armines and Armine	Х	x	
Carya glabra	pignut hickory	Tree	FACU-	80-135			x	
Ceanothus americanus	New Jersey tea	Subshrub, Shrub		3		x		
Celtis occidentalis	common hackberry	Tree, Shrub	FAC	40-60		x	x	X
Cephalanthus occidentalis	common buttonbush	Tree, Shrub	OBL	8			x	X
Chamaedaphne calyculata	leatherleaf	Shrub	OBL	4				
Cornus florida	flowering dogwood	Tree, Shrub	FACU-, FACU	20-40			x	
Cornus sericea	redosier dogwood	Tree, Shrub	FACW+	6-10			x	X
Dasiphora fruticosa ssp. floribunda	shrubby cinquefoil	Shrub		2.5				- The second control of the second control o
Diospyros virginiana	common persimmon	Tree	FAC-	35-60				
Fagus grandifolia	American beech	Tree	FACU	50-70			x	
Fraxinus americana	white ash	Tree	FACU	50-70		x	x	X
Fraxinus pennsylvanica	green ash	Tree	FACU	40-60		x	X	X
Hamamelis virginiana	American witchhazel	Tree, Shrub	FAC	15-20		x	x	
llex opaca	American holly	Tree, Shrub	FACU	15-20		Х		X
llex verticillata	common winterberry	Tree, Shrub	FACW+	6-10				X
Juniperus virginiana	eastern redcedar-	Tree	FACU+	40-50		x	×	
Lindera benzoin	northern spicebush	Tree, Shrub	FACW	6-12				X
Liriodendron tulipifera	tuliptree	Tree	FACU	70-90			×	
Morella pensylvanica	northern bayberry	Tree, Shrub	FAC	5-12		-		

Table 1G – Warren County con't.

Scientific Name	Common Name	Growth Habit	Wetland Status ^t	Height	Legal Status	Drought Tolerant	NJ Stormwater BMP Manual	NRCS Riparian Forest Buffer Conservation Practice Std.
Nyssa sylvatica	blackgum	Tree	FAC	60			Х	X
Photinia pyrifolia	red chokeberry	Shrub	FACW	5				
Pinus rigida	pitch pine	Tree	FACU	40-80		manan kantiluman sabbadamaha Patri Sabih Sabih sabih sabih sabih	Х	X
Pinus virginiana	Virginia pine	Tree	FACU	70		X	X	
Platanus occidentalis	American sycamore	Tree	FACW	80			X	X
Prunus serotina	black cherry	Tree, Shrub	FACU	50-60			Х	, and the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the section is the section in the section in the section is the section in the section
Quercus alba	white oak	Tree	FAC+	50-70		Х	X	X
Quercus coccinea	scarlet oak	Tree	UPL	40-50		Х	х	
Quercus ilicifolia	bear oak	Tree, Shrub		3-12				
Quercus palustris	pin oak	Tree	FAC, FACW	50-70		X	X	X
Quercus prinus	chestnut oak	Tree	UPL	60-70		Х	х	
Quercus rubra	northern red oak	Tree	FACU-	50-70		X	X	X
Quercus stellata	post oak	Tree	UPL	30-40		kana iliani iliano ori irro (anni la iliname le fendanci al elevirono della	Х	
Quercus velutina	black oak	Tree	UPL	50-60		X		
Rhamnus alnifolia	alderleaf buckthorn	Shrub	OBL	3		di danaman din din sali sensenanan daken di lemme pina di errandop		
Rhus glabra	smooth sumac	Tree, Shrub	UPL	20-30				
Ribes americanum	American black currant	Shrub	FACW	3	The same of the sa			
Ribes lacustre	prickly currant	Shrub	FACW	3				
Ribes triste	red currant	Shrub	OBL	2				
Salix discolor	pussy willow	Tree, Shrub	FACW	20-40			Х	
Salix nigra	black willow	Tree	FACW+	50- 100			x	X
Sassafras albidum	sassafras	Tree, Shrub	FACU-	30-60		Х	X	
Spiraea alba	white meadowsweet	Shrub	FACW	3				
Spiraea tomentosa	steeplebush	Shrub	FACW	4			X	
Symphoricarpos albus	common snowberry	Subshrub, Shrub	FACU	3		TO THE PARTY OF TH		
Symphoricarpos orbiculatus	coralberry	Shrub	FACU	2	and the state of t			and the second
Taxus canadensis	Canada yew	Shrub	FAC	5			x	
Tilia americana	American basswood	Tree	FACU	50-70			X	
Vaccinium angustifolium	lowbush blueberry	Subshrub, Shrub	FACU	2		X	x	
Viburnum dentatum	southern arrowwood	Shrub	FACW-	6-15		х		X
Viburnum lentago	nannyberry	Tree, Shrub	FAC	15-20			X	

Table 1G – Warren County con't.

Scientific Name	Common Name	Growth Habit	Wetland Status ¹	Height	Legal Status	Drought Tolerant	NJ Stormwater BMP Manual	NRCS Riparian Forest Buffer Conservation Practice Std.
Viburnum nudum	possumhaw	Tree, Shrub	OBL	6-8			х	
Viburnum prunifolium	blackhaw	Tree, Shrub	FACU	15-20		Х	x	

^{1.} See Table 8, pg 33, for Wetland Status Indicator code explanations.

2.0 Tables



INDEX OF DRAWINGS

STATE OF NEW JERSEY

SHEET	TITLE	REVISIO
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2	LEGEND, GENERAL NOTES AND ZONING	В
3	OVERALL ZONING MAP	В
4	EXISTING CONDITIONS AND DEMOLITION PLAN	В
5	SITE LAYOUT PLAN	В
6	SITE GRADING PLAN	В
7	SITE UTILITY PLAN	В
8	LANDSCAPE AND LIGHTING PLAN	В
9	SOIL EROSION AND SEDIMENT CONTROL PLAN	В
10	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	В
11	CONSTRUCTION DETAILS I	В
12	CONSTRUCTION DETAILS II	В
13	CONSTRUCTION DETAILS III	В
14	CONSTRUCTION DETAILS IV	В

UTILITIES LIST

GPU ENERGY 300 MADISON AVENUE MORRISTOWN, NJ 07962

ELIZABETHTOWN GAS CO. RD 2, BOX 373 EDISON ROAD STEWARTSVILLE, NJ 08886

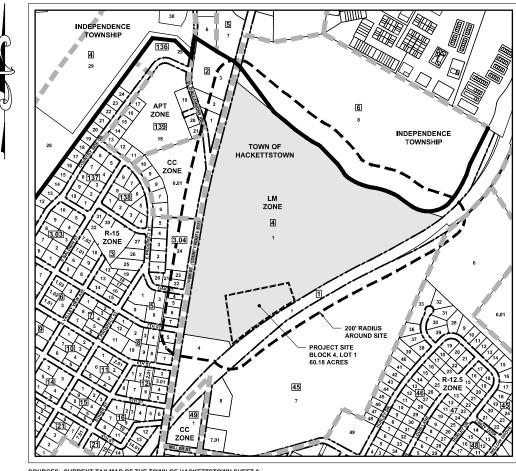
COMCAST CABLEVISION 155 PORT MURRAY ROAD PORT MURRAY, NJ 07865

FLOOR 2 IRVINGTON, NJ 07111

HACKETTSTOWN MUNICIPAL UTILITY AUTHORITY

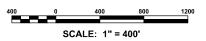
PRELIMINARY AND FINAL MAJOR SITE PLAN FOR **MARS INCORPORATED** PROPOSED TRAILER PARKING LOT **BLOCK 4, LOT 1 TOWN OF HACKETTSTOWN**

COUNTY OF WARREN, STATE OF NEW JERSEY



SOURCES: CURRENT TAX MAP OF THE TOWN OF HACKETTSTOWN SHEET 9. WARREN COUNTY GIS DEPARTMENT. HACKETTSTOWN ZONING MAP, LAST REVISED APRIL 2007.

KEY MAP AND ZONING



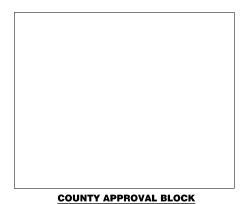
REV. FOR REGULATORY COMMENTS	В	11/12/2019	SOS	EBA
REV. PER HIGHLANDS COMPLIANCE	Α	07/18/2019	SOS	PDC
DESCRIPTION	NO.	DATE:	BY:	CHK:
REVISIONS				

SINGLE-FAMILY RESIDENTIAL (30.000 SF)

HACKETTSTOWN ZONING DISTRICTS

LOT BOUNDARY 200' RADIUS AROUND SITE

PROJECT DIRECTORY OWNER / APPLICANT MARS INCORPORATED 700 HIGH STREET HACKETTSTOWN, NJ 07840 908-852-1000 OWNER / APPLICANT SIGNATURE SUBURBAN CONSULTING ENGINEERS 96 US HIGHWAY 206, SUITE 101 FLANDERS, NJ 07836



LAND USE BOARD CHAIRPERSON DATE

PRELIMINARY AND FINAL MAJOR SITE PLAN FOR MARS INCORPORATED PROPOSED TRAILER PARKING LOT

TOWNSHIP ENGINEER

BLOCK 4, LOT 1 TOWN OF HACKETTSTOWN COUNTY OF WARREN, STATE OF NEW JERSEY

COVER SHEET

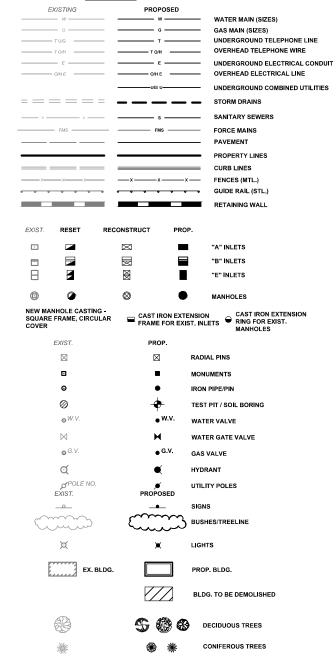
DATE





PROJECT NUMBER: SCE-8719.074 SHEET 1 OF 14

LEGEND



GENERAL NOTES

APPLICANT: MARS INCORPORATED 700 HIGH STREET HACKETTSTOWN, NJ 07840

- 1. THE SUBJECT PROPERTY KNOWN AS LOT 1, BLOCK 4 AS SHOWN ON THE TOWN OF HACKETTSTOWN TAX MAP SHEET 9.
- 2. THE SUBJECT APPLICATION IS SEEKING APPROVAL FOR THE CONSTRUCTION OF A PROPOSED TRAILER PARKING LOT LOCATED WITHIN THE SAME PROJECT AREA AS THE ORIGINAL ON-SITE WASTEWATER TREATMENT FACILITY. THE WASTEWATER TREATMENT FACILITY WAS TO BE PARTIALLY DEMOLISHED AS PART OF THE APPROVAL OF THE NEWLY CONSTRUCTED AND OPERATING WASTEWATER TREATMENT FACILITY. (LOCATED AT THE EASTERN PORTION OF THE SITE). DUE TO AN OPERATING CONDITION AT THE NEW FACILITY, TWO (2) EXISTING CLARIFIER TANKS AND ONE (1) EXISTING REACTOR TANK FROM THE PREVIOUS FACILITY WILL TEMPORARILY REMAIN. THESE TANKS WILL REMAIN IN OPERATION DURING THE CONSTRUCTION AND OPERATION OF THE TRAILER PARKING LOT. AT THE TIME THAT THE TWO (2) CLARIFIER TANKS AND ONE (1) REACTOR TANK CAN BE DEMOLISHED, THESE AREAS WILL BE REPAVED, STRIPED, AND UTILIZED FOR ADDITIONAL TRAIL BE APABLYING. ADDITIONAL TRAILER PARKING.
- 3. MARS INCORPORATED CURRENTLY PARKS TRAILERS THROUGHOUT THEIR SITE IN VARIOUS LOCATIONS, MAKING THE SUBJECT APPLICATION NECESSARY FOR MORE EFFICIENT OPERATIONS AT THE FACTORY. THE MAJORITY OF THE PARKED TRAILERS WILL BE EMPTY; SOME TRAILERS WILL CONTAIN FINISHED PRODUCT FOR A SHORT PERIOD OF TIME BEFORE BEING SHIPPED. TRAFFIC WILL BE REDUCED BY STORING TRAILERS ONSITE.
- 4. EXISTING UTILITIES TO BE REMOVED SHALL BE TERMINATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN AND UTILITY AUTHORITIES. ALL PERMITS SHALL BE OBTAINED PRIOR
- 5. ALL LOCATIONS AND ELEVATIONS OF UTILITIES ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE BUT SHOULD BE CONSIDERED APPROXIMATE. CALL BEFORE YOU DIG MUST BE CONTACTED PRIOR TO THE START OF CONSTRUCTION AT 811.
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF HACKETTSTOWN STANDARDS AND SPECIFICATIONS, AND ALL STRUCTURES ARE SUBJECT TO REVIEW BY THE CONSTRUCTION CODE OFFICIAL.
- 7. DUST CONTROL DURING CONSTRUCTION WILL BE PROVIDED BY THE UTILIZATION OF SPRAYED WATER AND STANDARD SOIL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BY THE WARREN COUNTY SOIL CONSERVATION DISTRICT AS REPRESENTED ON THESE PLANS AND AS REQUIRED PER THE WARREN COUNTY SOIL CONSERVATION DISTRICT REQUIREMENTS.
- . CONSTRUCTION WORK HOURS MAY BE PERFORMED MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 8:00 AM AND 5:00 PM. THE ENGINEER MUST APPROVE EARLY STARTS AND WORK ON SATURDAYS, SUNDAYS AND HOLIDAYS. THE COST FOR INSPECTION SERVICES BY THE ENGINEER BEYOND NORMAL WORK DAYS AND HOURS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE LOCAL POLICE AGENCY(IES) OF THE PROJECT AND NORMAL OPERATING TIMES AND DAYS.
- 10. THE APPLICANT IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL MATERIAL IN ACCORDANCE WITH THE APPLICABLE GOVERNING REGULATIONS.
- 11. NO MATERIAL OR EQUIPMENT IS TO BE STORED ON ANY AREA THAT HAS NOT BEEN ESTABLISHED AS A DESIGNATED STAGING AREA. ALL EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH
- 12. THE APPLICANT WILL HOLD A PRE-CONSTRUCTION MEETING WITH THE TOWN ENGINEER AND OTHER GOVERNING AGENCIES WHO WISH TO ATTEND.
- 13. APPLICANT WILL PROVIDE TOWN WITH ALL REQUIRED OUTSIDE AGENCY APPROVALS. THE FOLLOWING APPROVALS ARE ANTICIPATED
 - WARREN COUNTY PLANNING BOARD WARREN COUNTY SOIL CONSERVATION DISTRICT
 - HIGHLANDS APPLICABILITY DETERMINATION
 - NJDEP FHA VERIFICATION AND INDIVIDUAL PERMIT
- 14. DUE TO THE PRESENCE OF THE HACKETTSTOWN BROOK FLOOD HAZARD AREA (FHA) ON SITE, SUBMISSION OF A FHA VERIFICATION AND INDIVIDUAL PERMIT PACKAGE TO NJDEP IS REQUIRED.
- 15. THESE PLANS ARE FOR TOWN APPROVAL AND PLANNING PURPOSES ONLY AND ARE NOT TO BE UTILIZED FOR CONSTRUCTION.
- 16. THESE PLANS REFERENCE THE SURVEY ENTITILED, "BOUNDARY SURVEY PLAN" PREPARED BY BARRY ISETT & ASSOCIATES, DATED JANUARY 29, 2019.

ZONING SUMMARY

LAND USE AND DEVELOPMENT REGULATION	ALLOWABLE LM DISTRICT - REQ.	EXISTING* (INCLUDING PREVIOUSLY APPROVEL APPLICATIONS)	MAJOR SITE PLAN APPLICATION (PROPOSED)	VARIANCE	WAIVER
PRINCIPAL PERMITTED USE	LIMITED MANUFACTURING	LIMITED MANUFACTURING: WASTEWATER TREATMENT FACILITY**	LIMITEDMANUFACTURING	Yes	No
MIN. LOT AREA	3 ACRES (130,680 SF)	60.18 ACRES (2,621,421 SF)	NO CHANGE	No	Nb
MIN. LOT WIDTH	300°	2,200'	NO CHANGE	No	No
MIN. LOT DEPTH	300'	2,338'	NO CHANGE	No	No
MINIMUM PRINCPAL BUILDING SETBACK					
MIN. FRONT YARD	50'	>50'	NO CHANGE	No	No
MIN. SIDE YARD (ONE SIDE)	50'	>50'	NO CHANGE	No	No
MIN. REAR YARD	50'	>50'	NO CHANGE	No	No
MINIMUM ACCESSORY BUILDING SETBACK		-			
DISTANCE TO SIDE LINE	251	65.5"	NO CHANGE	No	Nh
DISTANCE TO REAR LINE	25'	\$10.5'	NO CHANGE	No	No
DISTANCE TO OTHER BUILDING	25'	52.5'	NO CHANGE	No	Nb
MAX, PRINCIPAL BUILDING HEIGHT	3 STORIES/45'	45*	NO CHANGE	No	Nb
MAX. ACCESSORY BUILDING HEIGHT	:5'	19.5' PRETREATMENT (EN) 24.5' ANAEROBIC REACTOR (EN) 20.7' EQUALIZATION TANK (EN) 16.8' POST AERATION (EN) 25.5' FLARE STACK (EN)	7' Clarifler Tank 7' Clarifler Tank (V) 13.5 Surge Tank (V)	No	No
MAXIMUM LOT COVERAGE ***	75%	1,301,022 SF (49.6%)	1,294,273 (49.4%)	No	No
MAX. BLDG. (LOT COVERAGE	30%	537,052 SF (20.5%)	532,965 (20.3%)	No	Nb

* EXISTING CONDITIONS WERE TAKEN FROM THE PLAN SET ENTITLED, 'PRELIMINARY AND FINAL SITE PLAN FOR NARS CHOCOLATE NORTH ANERICA LLC WASTEWATER PRETREATMENT SYSTEM UPGRADES," PREPARED BY DYNAMIC ENGINEERING. AS APPROVED BY RESOLUTION #Z-14-05. APPROVED ON 11/18/2014 AND MEMCRIALIZED ON

VARIANCE RELIEF IS ANTICIPATED FOR THE THREE (3) TANKS TO REMAIN DUE TO CONDITIONS FROM RESOLUTION #Z-14-05 DICTATING THAT ALL THE TANKS AND

" VARIANCE RELIEF IS ANTICIPATED FOR THE THREE (3) TANKS TO REMAIN DUE TO CONDITIONS FROM RESOLUTION #Z-14-05 DICTATING THAT ALL THE TANKS AND STRUCTURES ARE TO BE REMOVED FROM ""EXISTING LOT COVERAGE CALCULATED BY ADDING 68,109 SF (IMPERVIOUS AREA TO BE REMOVED PER HIGHLANDS PLANNING AREA EXEMPTION DETERMINATION, EXEMPTION #4 LETTER PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, PC, DATED NOVEMBER 14, 2014) TO THE PROPOSED LOT COVERAGE OF 1,232,913 SF PER PREVIOUSLY APPROVED PLAN SET ENTITLED "PREVIOUSLY APPROVED PLAN SET ENTITLED "PREVIALIMINARY AND FINAL SITE PLAN FOR MAS CHOCCLATE NORTH AMBRICA LLC WASTEWATER PRETEMATMENT SYSTEM UPGRADES," PREPARED BY DYNAMIC ENGINEERING, AS APPROVED BY RESOLUTION #Z-14-05, APPROVED ON 11/18/2014 AND MEMORIALIZED ON 12/16/2014.

(V): VARIANCE REQUIRED (EN): EXISTING NON-CONFORMITY

PARKING CALCULATION: NO HABITABLE FLOOR AREA IS PROPOSED, THEREFORE, THE SITE'S PARKING CALCULATION IS UNCHANGED.

OFF-STREET LOADING: NO LOADING OR UNLOADING IS TO OCCUR WITHIN THE PROJECT AREA.

SIGNAGE: NO SIGNS PROPOSED.

CERTIFIED PROPERTY OWNERS LIST WITHIN 200 FT.:

MUNICIPAL CERTIFIED LIST AS OF DECEMBER 5, 2018

BLOCK	LOT	PROPERTY OWNER	PROPERTY LOCATION	BLOCK	LOT	PROPERTY OWNER	PROPERTY LOCATION
2	1	FIVE INVESTORS INC C/O RPC INC 6 EMERY AVE SUITE 1 RANDOLPH, NJ 07869	901 HIGH STREET	5	6	HARTIGAN, BERNARD/DEWS, PATRICK 137 CASTERLINE ROAD DENVILLE, NJ 07834	705 HIGH STREET
2	2	APDJ LLC 160 EAST MAIN ST RAMSEY, NJ 07446	903 HIGH STREET	5	7	TAPP, JEFFREY F & DONNA M 701 HIGH ST HACKETTSTOWN, NJ 07840	701 HIGH STREET
2	3	C2 PROPERTIES LLC 905 HIGH STREET HACKETTSTOWN, NJ 07840	905 HIGH STREET	8	5	SZAWALUK, JEAN EST 609 HIGH STREET HACKETTSTOWN, NJ 07840	609 HIGH STREET
3.04	21	CAMPBELL, MARK & WENDY 105 OAK STREET HACKETTSTOWN, NJ 07840	105 OAK STREET	8	6	TESTA, R WINIFRED & ROBBIE N 90 ROSEVILLE RD BYRAM TWP, ANDOVER NJ 07821	605 HIGH STREET
3.04	22	JHANKHAR, SHANTILAL & PURSHPABEN 801 HIGH STREET HACKETTSTOWN, NJ 07840	801 HIGH STREET	8	7	SANTARELLI, VINCENT M JR & CHERYL A 801 HIGH STREET HACKETTSTOWN, NJ 07840	601 HIGH STREET
3,04	23	MACIAG, MARY BETH 805 HIGH STREET HACKETTSTOWN, NJ 07840	805 HIGH STREET	139	6.01	MAKORINC C/O WILF, JOSEPH & HARRY 820 MORRIS TURNPIKE S301 SHORT HILLS, NJ 07078	811 HIGH STREET
3.04	24	M&M MARS INC C/O RYAN LLC ONE PPG PLACE SUITE 2810 PITTSBURGH, PA 15222	807 HIGH STREET	139	20	WILLOW CO C/O S GELTMAN & CO 45 EISENHOWER DR STE 270 PARAMUS, NJ 07652	102 OLD ALLAMUCHY R
4	4	MARS INC C/O HKP FINANCE MANGER ONE PPG PLACE SUITE 2810 PITTSBURGH, PA 15222	600 HIGH STREET	139	21	WILLOW CO C/O S GELTMAN & CO 45 EISENHOWER DR STE 270 PARAMUS, NJ 07652	900 OLD ALLAMUCHY F
4	5	TOWPATH ASSOC C/O SALEM MGT CO 2029 MORRIS AVE POB 2175 UNION, NJ 07083	HIGH STREET				
5	4	BODINE, JR, ROBERT A 3 DEER PARK ROAD HACKETTSTOWN, NJ 07840	100 OAK STREET				
5	5	GOLDSMITH, C/CAMERON, J/ SOKOLOSKI 709 HIGH STREET HACKETTSTOWN, NJ 07840	709 HIGH STREET				

NOTICE						DRAWN BY:
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PER N.J.A.C. ELECTRONIC SUBMISSIONS NOT CONTAINING A VALID						03/28/2019
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	REV. PER HIGHLANDS COMPLIANCE	A	07/18/2019	SOS	PDC	CHECKED BY:
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ELLENCE • ECONOMY • ENVIRONME

FLIMINARY AND FINAL MAJOR SITE PLAN FOR MARS INCORPORATED PROPOSED TRAILER PARKING LOT TOWN OF HACKETTSTOWN
COUNTY OF WARREN, STATE OF NEW JERSEY

LEGEND, GENERAL NOTES AND ZONING

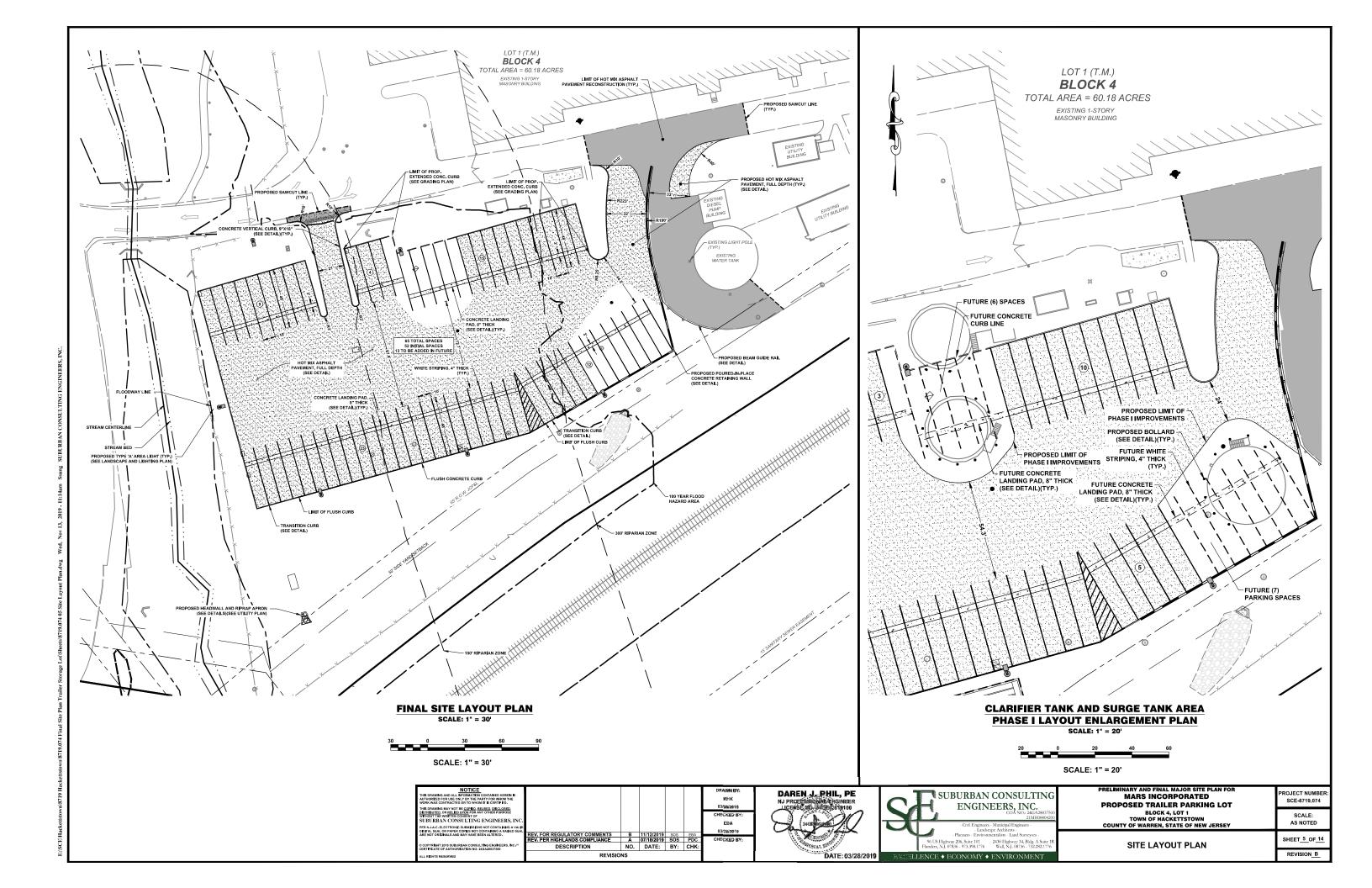
SHEET 2 OF 14 REVISION B

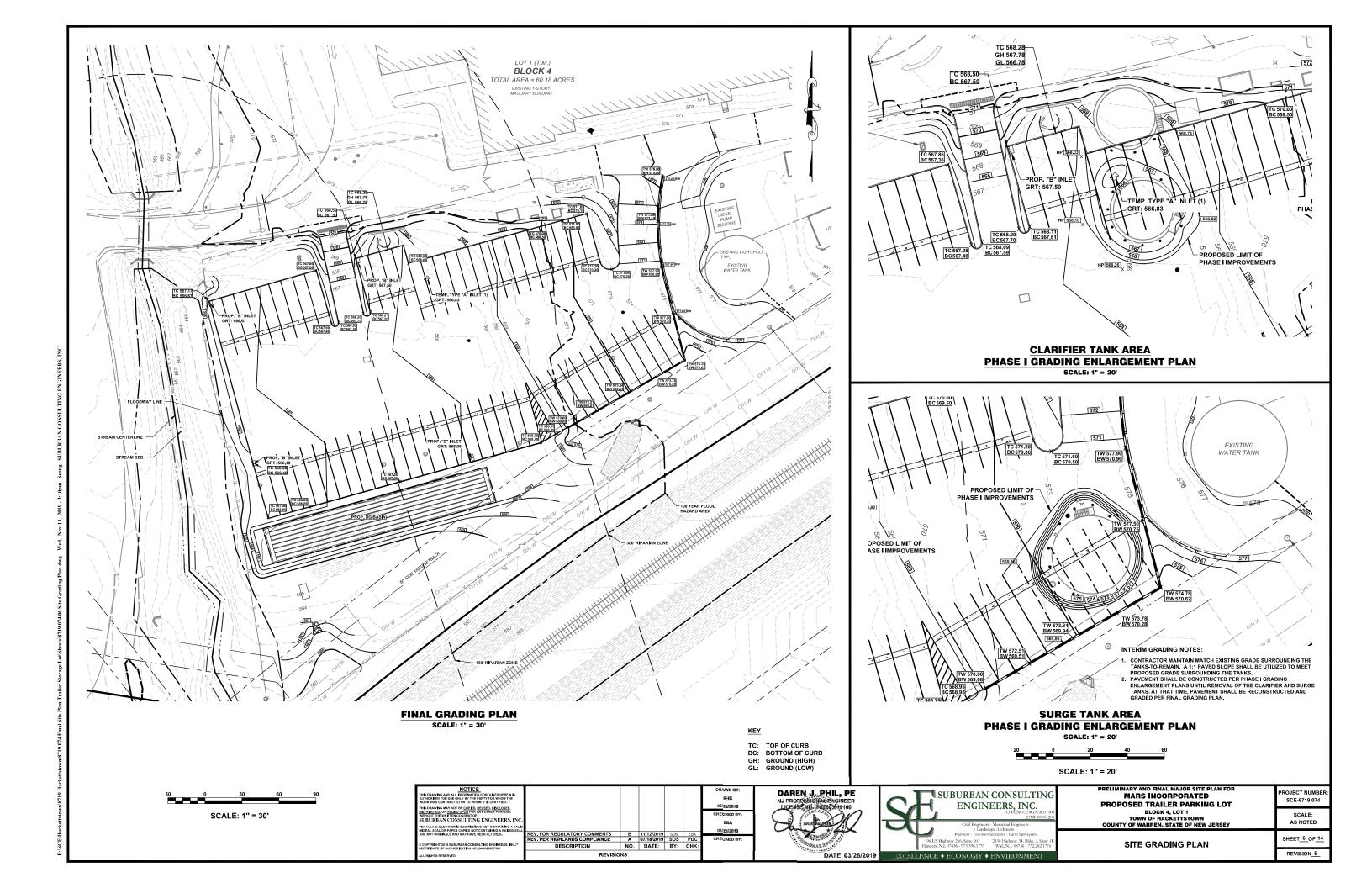
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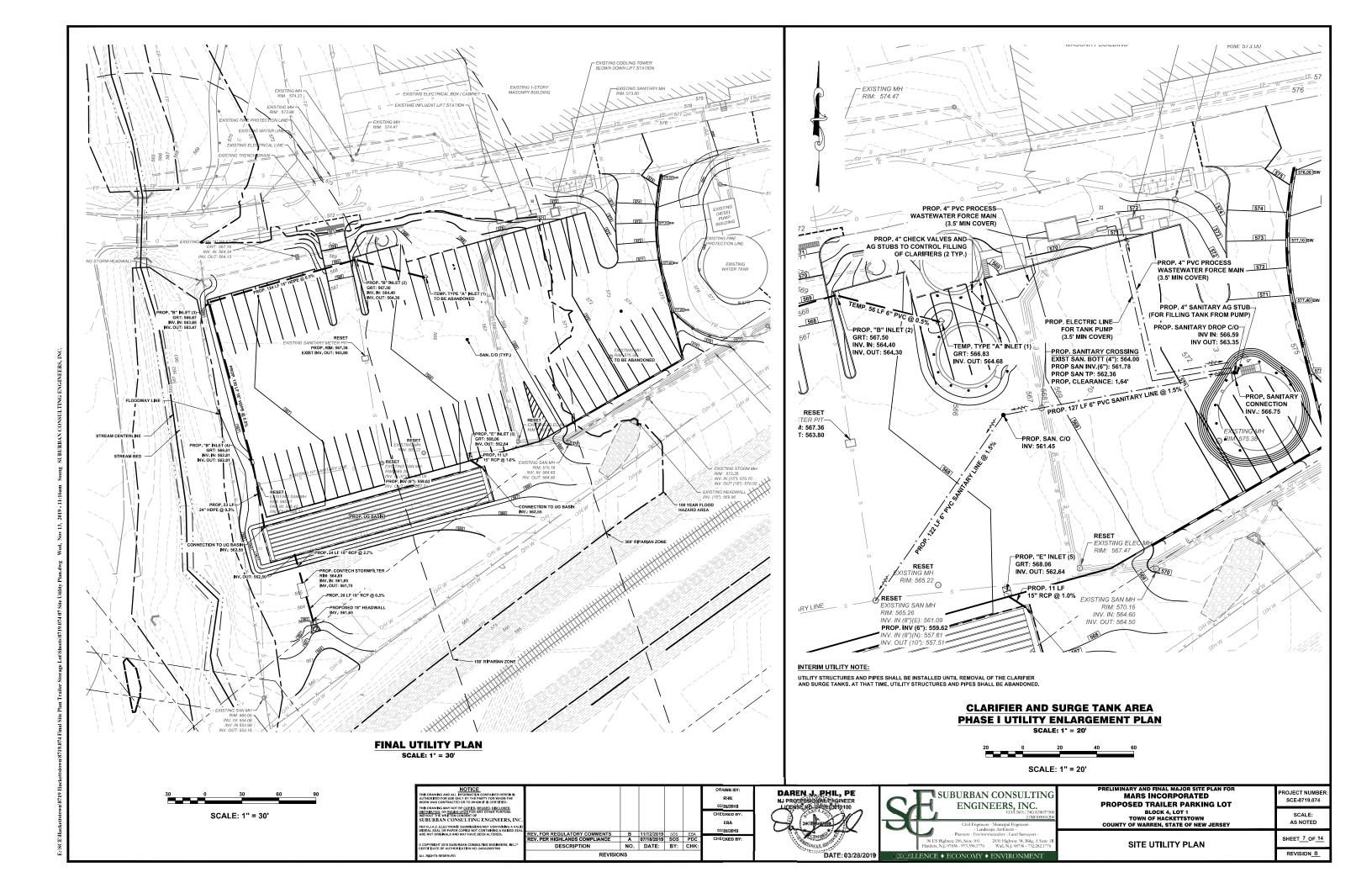
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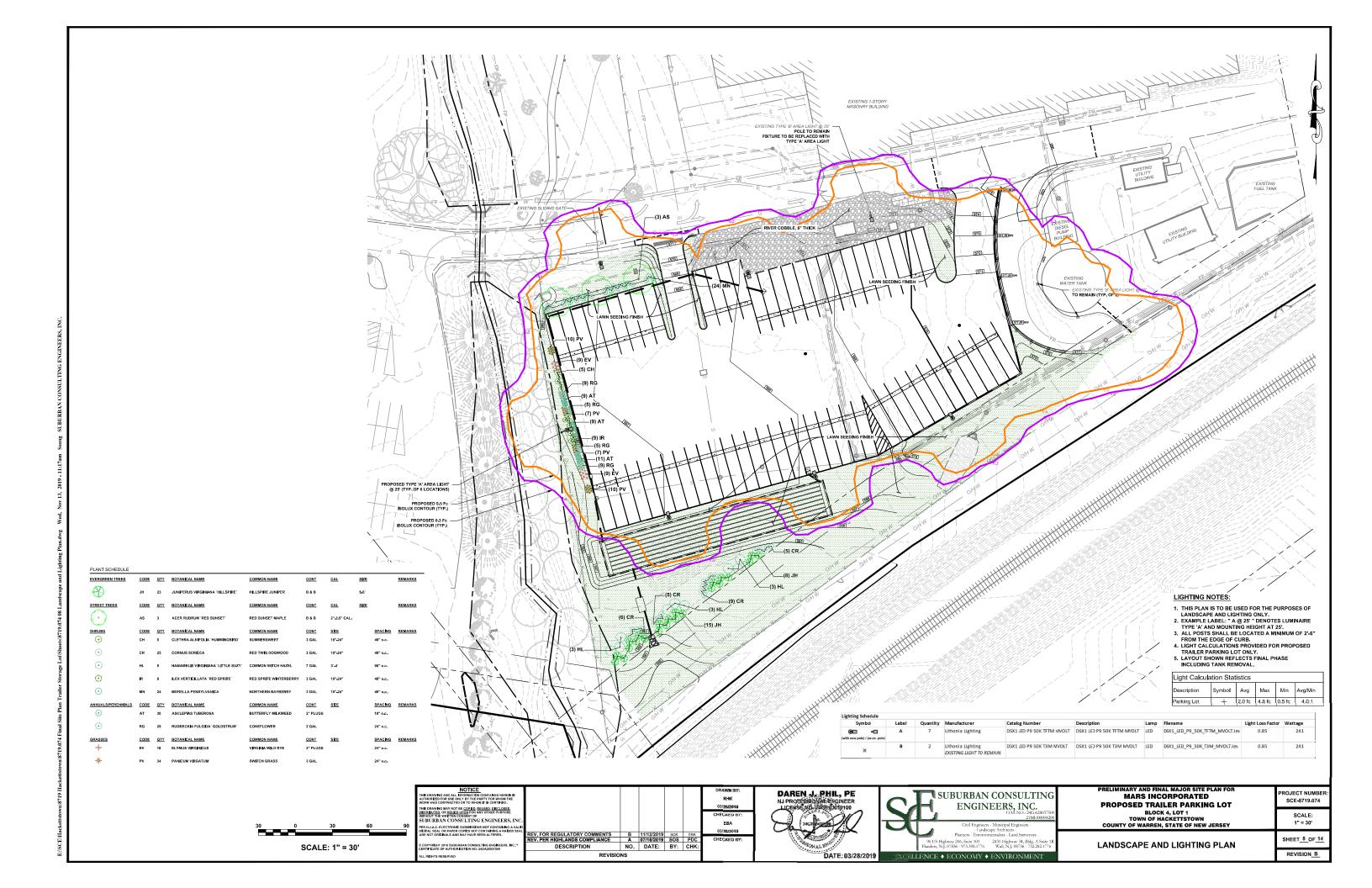
SCALE:

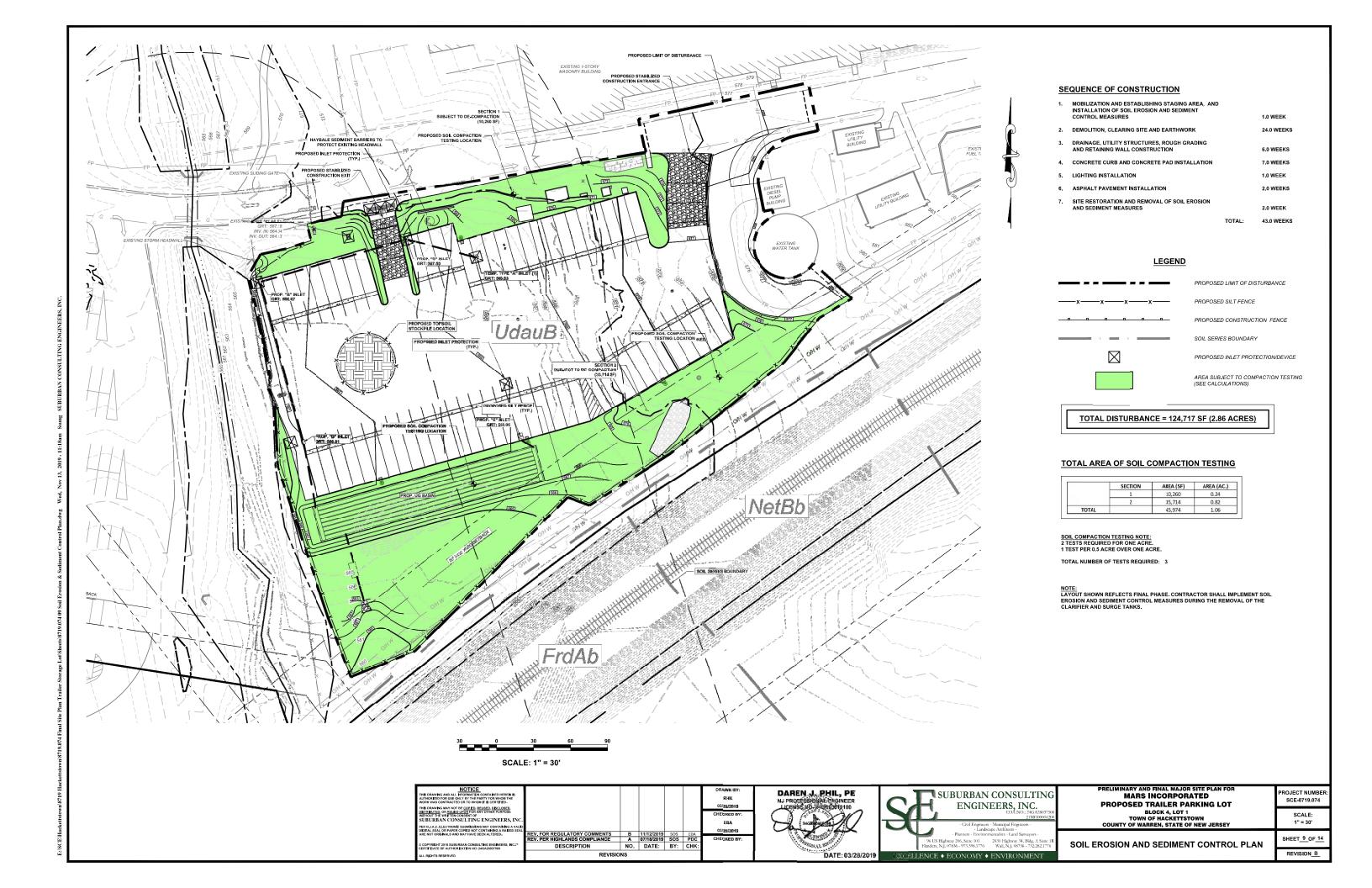
UBURBAN











- THE DISTRICT SHALL BE REPRESENTED AT THE PROJECT PRE-CONSTRUCTION MEETING WITH THE TOWNSHIP ENGINEER, CONTRACTORS AND UTILITY REPRESENTATIVES. IF THE TOWNSHIP ENGINEER DOES NOT SCHEDULE A PRE-CONSTRUCTION MEETING, IT IS THE RESPONSIBILITY OF THE OWNER/APPLICANT TO SCHEDULE ONE BEFORE ANY LAND DISTURBANCE, TWO WEEKS WRITTEN NOTICE MUST BE GIVEN FOR SCHEDULING PRE-CONSTRUCTION MEETINGS.
- FAILURE OF THE AFOREMENTIONED PLAN SHALL NOT RELIEVE THE APPLICANT OF ANY OF ITS
 RESPONSIBILITIES RELEVANT TO THE APPROPRIATE STATUTES. ADDITIONAL EROSION AND
 SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE DISTRICT IN
 THE EVENT OF ANY UNFORESEEN PROBLEMS DURING CONSTRUCTION.
- 3. ANY CHANGES OF APPROVED PLANS SHALL REQUIRE AN ADDITIONAL SUBMITTAL TO THE DISTRICT INCLUDING APPROPRIATE RE-REVIEW FEES.
- 4. A 48 HOUR START OF LAND DISTURBANCE NOTIFICATION SHALL BE GIVEN.
- 5. IN THAT N.J.S.A. 4-24-39 ET SEQ REQUIRES THAT NO CERTIFICATES OF OCCUPANCY TO BE ISSUED IN THAI N.J.S.A. 24-59 ET SEE REQUIRES THAI NO CENTIFICATES OF OCCUPANCE IT DE ESSUED BY THE MUNICIPALITY BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK RELATIVE TO APPROVED PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS WILL BE COMPLETED BEFORE THE DISTRICT ISSUES A CERTIFICATE OF COMPLIANCE. TWO WEEKS WRITTEN NOTICE MUST BE GIVEN TO THE DISTRICT TO SCHEDULE INSPECTION FOR CERTIFICATE
- 6. FINAL STABILIZATION OF ALL LAND DISTURBANCES ASSOCIATED WITH UNDERGROUND UTILITIES, IRRESPECTIVE OF PHASING, IS THE ULTIMATE RESPONSIBILITY OF THE OWNER.
- A CASH BOND OF NOT LESS THAN \$2,500. (PER DISTURBED ACRE OR PART THEREOF) WILL BE POSTED WITH THE WARREN COUNTY SOIL CONSERVATION DISTRICT DURING THE NON-GROWING SEASON (NOVEMBER 15 APRIL 15) IF A CERTIFICATE OF COMPLIANCE IS NEEDED AND SOIL EROSION AND SEDIMENT CONTROL MEASURES FOR PERMANENT STABILIZATION ARE NOT
- 8. SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEPT AT THE END OF EACH
- NO BUILDING PERMITS WILL BE RELEASED UNTIL ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON APPROVED PLANS ARE INSTALLED.
- 10. DUST TO BE CONTROLLED WITH WATER, CALCIUM CHLORIDE OR OTHER METHOD APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 11. TRACKING PAD TO BE KEPT CLEAN AND REPAIRED AS NECESSARY
- 12. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, FEBRUARY 2014.
- 13. SEE DETAIL SHEETS FOR ADDITIONAL SOIL AND SEDIMENT CONTROL DETAILS.

- 14. TOPSOIL STOCKPILE PROTECTION
 A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
 B. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS PER 1000 SQ. FT.
 C. APPLY PERENNIAL RYEGRASS SEED AT 1 LB PER 1000 SQ. FT. AND ANNUAL RYEGRASS AT 1
 - D. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS PER 1000 SQ. FT.

 - E. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
 F. PROPERTY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
- 15. TEMPORARY STABILIZATION SPECIFICATIONS
 A. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT.
 B. APPLY FERTILIZER (10-20-10) T A RATE OF 11 LBS PER 1000 SQ. FT.
 C. APPLY PERENNIAL RYEGRASS SEED AT 1 LB PER 1000 SQ. FT. AND ANNUAL RYEGRASS AT 1
 - D. MULCH WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT
 - E. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH

- 16. PERMANENT STABILIZATION SPECIFICATIONS
 A. APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
 B. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS PER 1000 SQ. FT. AND WORK FOUR INCHES INTO SOIL.
 C. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS PER 1000 SQ. FT.

 - C. APPLY FERTILLER (10-20-1) AT A RATE OF 11 LBS PER 1000 SQ. FT.

 D. APPLY HARD FESCUE SEED AT 2.7 LBS PER 1000 SQ. FT. AND CREEPING RED FESCUE SEED

 AT 0.7 LBS PER 1000 SQ. FT. A PERENNIAL RYEGRASS SEED AT 0.25 LBS PER 1000 SQ. FT.

 E. MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - F. APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH
- 17. USDA SOIL SERIES FROM SOIL SURVEY MANUAL OF WARREN COUNTY, NEW JERSEY SHOW

FrdAb - Fredon-Halsey complex, 0 to 3 percent slopes, very stony NetBb - Netcong loam, 0 to 8 percent slopes, very stony UdauB - Udorthents-Urban land complex, 0 to 8 percent slopes

DUST CONTROL NOTES

THE FOLLOWING METHODS SHOULD BE USED FOR CONTROLLING DUST:
MULCHES. - SEE STANDARDS FOR STANBALDATION WITH MULCHES ONLY (Pig. 5-1),
YEGETATIVE COVER: - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER (Pg. 7-1), PERMANENT VEGETATIVE COVER FOR SOLE
STABILIZATION (Pg. 4-1), AND PERMANENT STABILIZATION WITH SOD (6-1).
STABILIZATION (Pg. 4-1), AND PERMANENT STABILIZATION WITH SOD (6-1).
SPRAZY-ON ADMESSIVE: ON MINERALS ADDIS (NOT EFFECTIVE ON MUCK SOLS), KEEP TRAFFIC OFF THESE AREAS.

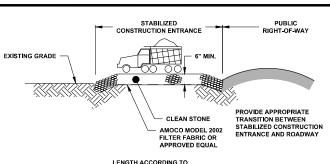
TABLE 16-1: DUST CONTROL MATERIALS

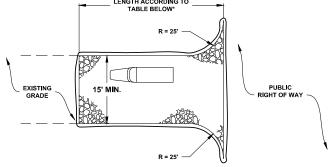
TABLE 10-11 BOOT CONTINUE MATERIALS			
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS / ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1.200
LATEX EMULSION	12.5 : 1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)-SPRAY ON POLYACRYLAMIDE (PAM)-DRY SPRAY	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (Pg. 26-1)		
ACIDULATED SOY BEAN STICK	NONE	COARSE SPRAY	1,200

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWNS STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHIBBELTYPE PLOWS SPACED ABOUT 12 NECES SPART, AND SPRING-LOOTHED HARROWS ARE EXAMPLES OF COLUMENT WHICH MAY PRODUCE THE DESIRED

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COM USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING NITO STREAMS OR ACCUMULATION AROUND PLANTS.



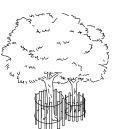


PERCENT SLOPE	LENGTH STONE REQUIRED		
OF ROADWAY	COARSE GRAINED SOILS	FINE GRAINED SOILS	
0 TO 2%	50 FT.	100 FT.	
2 TO 5%	100 FT.	200 FT.	
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE ¹		

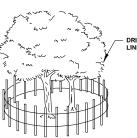
¹AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



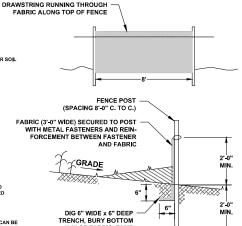




CORRECT FENCING FOR TREE PROTECTION

TREE PROTECTION

N.T.S.



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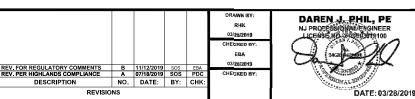
ONSENT OF SULTING ENGINEERS, I

REQUIREMENTS FOR SILT FENCE:

- FENCE POSTS SHALL BE SPACED 8 FEET
 CENTERTO-CENTER OR CLOSER. THEY SHALL EXTEND AT
 LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2
 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1.5
- A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FASRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS
- A GEOTEXTILE FABRIC. RECOMMENDED FOR SUCH USE BY A GEOTEXTILE TABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENERS AND THE FASTENERS AN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FARRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR

SEDIMENT FENCE DETAIL

N.T.S.







DUMP STRAP BALE 1" REBAR FOR BAG REMOVAL FROM INLET BAG DETAIL SILT SACK AS MANUFACTURED BY 4" VERTICAL FACE ATLANTIC CONSTRUCTION FABRICS, INC., RICHMOND. VA 4111111111111 ANGLE FIRST STAKE TOWARD PREVIOUSLY LAID BALE SECURELY TIED BALES PLACED ON THE CONTOUR **INSTALLATION DETAIL** N.T.S.

FILTER FABRIC SHALL BE

INLET FILTER INSTALLATION WITHOUT FRAME AND GRATE

WIRE SUPPORT- 6"x6".

5/5 GA. 49#/100 SQ. FT. WEI DED WIRE SUPPORT

INLET PROTECTION DEVICE

HAYBALE SEDIMENT BARRIERS

TO FRAME AND GRATE

2x4 LUMBER FRAME

INLET FILTER DETAIL

N.T.S.

2. IF BOTTOM OF ROADWAY BOX IS BELLOW TOP OF GRATE, CONSTRUCT OPENINGS IN INLET WALL TO ALLOW WATER TO FLOW IN, COVER OPENINGS WITH WELDED WIRE SUPPORT AND FILTER FABRIC.

3. INSPECTION SHALL BE MADE FREQUENT. MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS.

NOTES:
1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.

BACKFILL AFTER INSTALLATION OF

INLET FILTER

Self Description of Technic Requirements

Said Consection Fashing Respirators

t. Situate espaien <u>en departe esta cresta, c</u>erpropiat acceptant printer printe, per cest. Propiatoristico (con l'arcona comparation d'influence de secole media media esta en espaience de l'arcona com

STAKES 1-1/2' TO 2' IN GROUND

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Consumption Touring Medicals

Control of Colombia (18 for the Colombia of Colombia (18 for the Colombia of C

or sensitivities represed as pertial the serge experiment or strains

Property of the Consection Militarion

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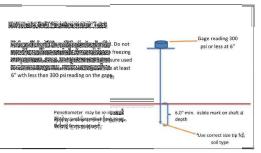
field on Wire from 15 few steel, who incress fine. States will should be reconstruct upo paptoris, Cortic contribute makes north to Depth in Cortic Depth services north to Depth in Cortic Depth in Cortic Hole Ware there

NOTE SEED IMMEDIATELY

TYPICAL TOPSOIL STOCKPILE

N.T.S.

EXPANSION RESTRAINT



INARY AND FINAL MAJOR SITE PLAN FO MARS INCORPORATED PROPOSED TRAILER PARKING LOT BLOCK 4, LOT 1 TOWN OF HACKETTSTOWN COUNTY OF WARREN. STATE OF NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

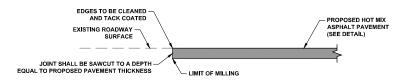
SCE-8719.074 SCALE: NTS SHEET 10 OF 14

ROJECT NUMBE

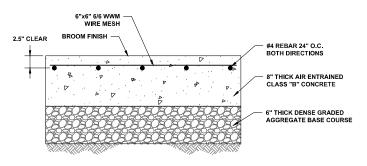
SILT FENCE

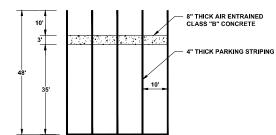
REVISION B

HOT MIX ASPHALT PAVEMENT, FULL DEPTH

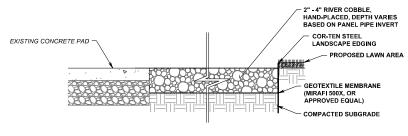


EXISTING TO PROPOSED HOT MIX ASPHALT PAVEMENT DETAIL

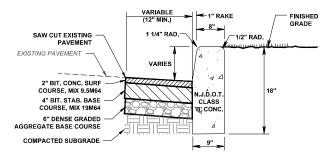




CONCRETE LANDING PAD, 8" THICK N.T.S.



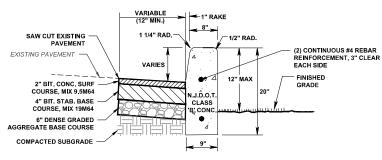
RIVER COBBLE DETAIL



<u>NOTES:</u> 1. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20° APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF A. S. H.O. SPEC. M-213, RECESSED 1/4" IN FROM THE FRONT FACE AND TOP OF CURB.

2. PAVEMENT REPAIR TO BE INCLUDED IN COST OF CURB

CONCRETE VERTICAL CURB, 9" X 18" N.T.S.

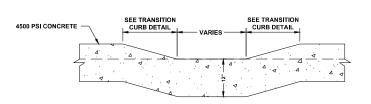


NOTES:

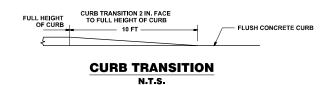
1. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB
20' APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS
IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF A.A.S.H.O. SPEC. M-213, RECESSED 1/4" IN FROM THE FRONT FACE AND TOP OF CURB.

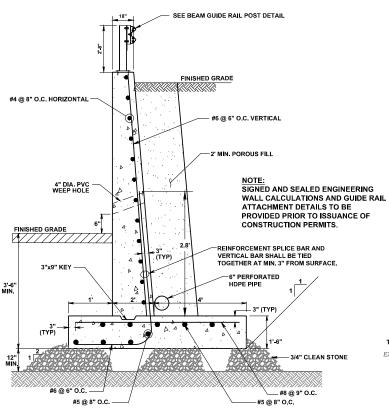
2. PAVEMENT REPAIR TO BE INCLUDED IN COST OF CURB.

EXTENDED CONCRETE CURB N.T.S.

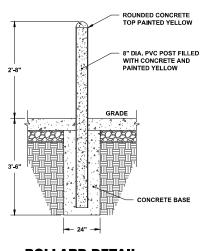


FLUSH CONCRETE CURB

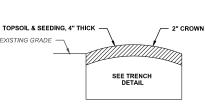




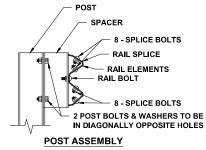
POURED-IN-PLACE **CONCRETE RETAINING WALL**



BOLLARD DETAIL N.T.S.



LAWN SURFACE RESTORATION NON-PAVED AREAS



12" X 12", 1¹/₈" THICK PLATE CONCRETE RETAINING WALL $4 - \frac{7}{8}$ " DIA. HIGH STRENGTH ANCHOR BOLTS, 6" MIN, EMBEDMENT

POST INSTALLATION

NOTES:

- GUIDE RAIL POSTS TO BE SPACED AT 6'-3" O.C.
 RAIL ELEMENTS SHALL BE FURNISHED SHOPCURVED, CONCAVE
 OR CONVEX, FOR RADII LESS THAN 150 FEET.
 HE STEEL FOR RAIL ELEMENTS AND BOLTS SHALL CONFORM
 TO NJDOT STANDARD SPECIFICATIONS AND ITS AMENDMENTS.

BEAM GUIDE RAIL POST ASSEMBLY & INSTALATION DETAIL





DAREN J. PHIL, PE

RHK

EBA



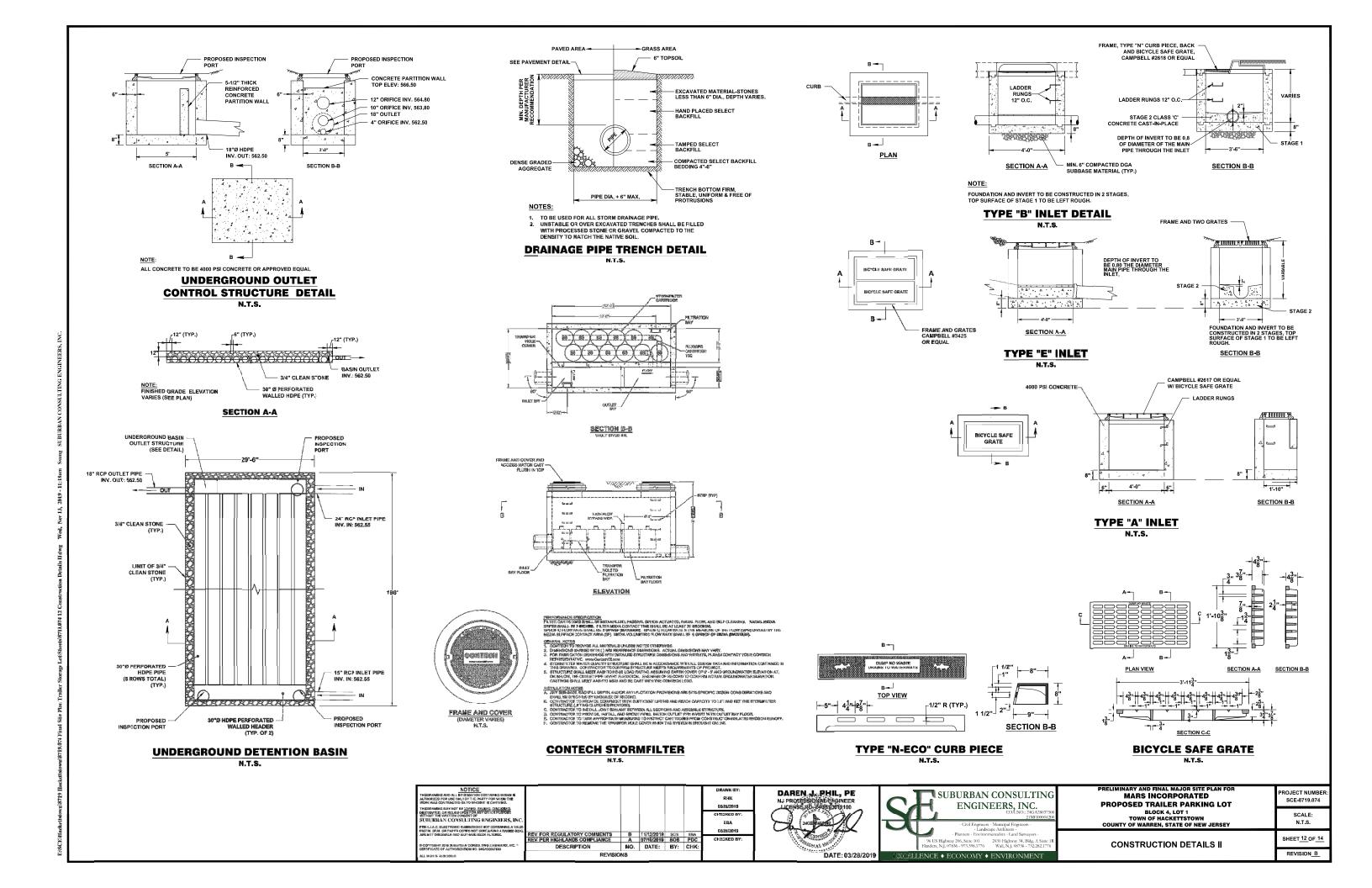
MARS INCORPORATED PROPOSED TRAILER PARKING LOT TOWN OF HACKETTSTOWN **COUNTY OF WARREN, STATE OF NEW JERSEY**

CONSTRUCTION DETAILS I

SCE-8719.074 SCALE: N.T.S. SHEET 11 OF 14

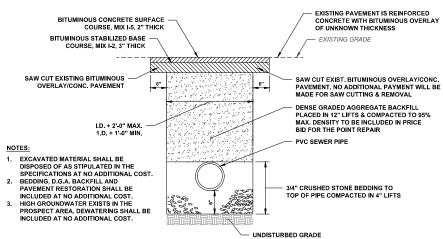
ROJECT NUMBE

REVISION B



- 2. WHEN THE DEPTH OF A MANHOLE EXCEEDS 10 FT. AS MEASURED FROM 10P OF COVER TO INVERT, WALLS OF BRICK, CONCRETE OR CONCRETE BLOCK BELOWA DEPTH OF 8 FT SHALL BE 12" THICK. THE OVERALL HORIZONTAL DIMENSIONS SHALL BE INCREASED 12" AND THE DEPTH OF THE FOUNDATION INCREASED TO 12". WHEN ROCK IS ENCOUNTERED, THE HORIZONTAL DIMENSION AND THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED. THE THICKNESS OF PRECAST CONCRETE MANHOLE WALLS DOES NOT HAVE TO BE INCREASED IF THE DEPTH OF THE MANHOLE EXCEEDS 10 FT.
- 3. CASTING OF PRECAST MANHOLES SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK OR CONCRETE BLOCK, AS REQUIRED, 12" MAX.
- 4. IN BRICK, CONCRETE, OR CONCRETE BLOCK MANHOLES, INVERTS SHALL BE CONSTRUCTED IN TWO STAGES.

RESET STORM/SANITARY MANHOLE DETAIL



TYPICAL PVC SEWER PIPE TRENCH DETAIL









SUBURBAN CONSULTING ENGINEERS, INC. S Highway 206, Suite 101 2430 Highway 34, Bldg. A S 5, N.J. 07836 - 973.398.1776 Wall, N.J. 08736 - 732.282



FOR D50 = 5". APRON LENGTH = 4D = 6"

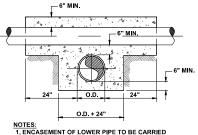
SEPARATION ABOVE SANITARY LINE) - 6" PVC SANITARY LINE MECHANICAL JOINTS WITH THRUST BLOCKS PER THE CONSTRUCTION DETAILS

(SANITARY AND ELECTRIC)

EXISTING UNDERGROUND UTILITY PIPE

(SANITARY CROSSING REQUIRES 18" MIN. VERTICAL

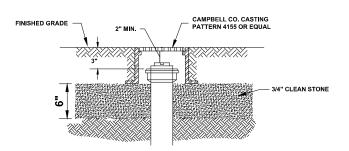
TYPICAL UTILITY CROSSING

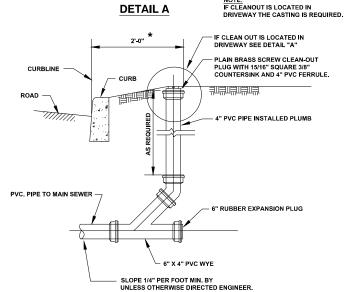


24" IN EACH DIRECTION BEYOND THE WALLS OF THE UPPER CONDUIT

2. THE ENCASEMENT SHOWN SHALL BE REQUIRED
WHERE THE CLEARANCE BETWEEN PIPES IS LESS THAN 18"

UTILITY CROSSING ENCASEMENT DETAIL





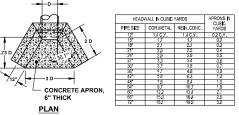
PROFILE VIEW

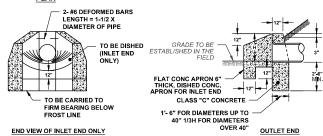
N.T.S.

TYPICAL DETAIL OF CLEANOUT

EXISTING MANHOLE BENCHING 2" PER FOOT TOWARD FLOW CHANNEL PIPE JOINT TO BE MADE WITH SYNTHETIC RUBBER SEAL, BOOT, GASKET OR APPROVED EQUAL. (TYP.) PIPE JOINT FOR R.C. PIPE 6" CRUSHED STONE (TYP.) 4" PVC FORCE MAIN FLOW CHANNEL TO BE FULL MECHANICAL JOINT 11 1/4 OR 22 1/2 DEGREE BEND DEPENDING ON SLOPE OF FORCE MAIN DEPTH OF EFFLUENT PIPE CLASS "C" CONCRETE (TYP.)

STANDARD FORCE MAIN **CONNECTION TO MANHOLE**



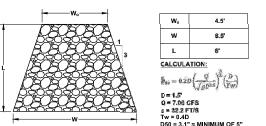


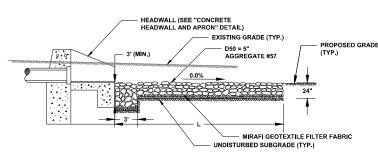
- NOTES:

 1. ALL EDGES TO BE CHAMFERED 1".
 2. CONCRETE TO BE N.J.D.O.T., CLASS "C".
 3. APRONS TO BE 6" THICK TO CONCRETE, FLAT AT OUTLET END, DASHED AT INLET END.
 4. EXPOSED PORTIONS OF WALL TO BE RUBBED AND FLOATED.
 5. FOR ARCH PIPE, THE SPAN SHALL BE SUBSTITUTED FOR D.

PLAN VIEW

CONCRETE HEADWALL N.T.S.

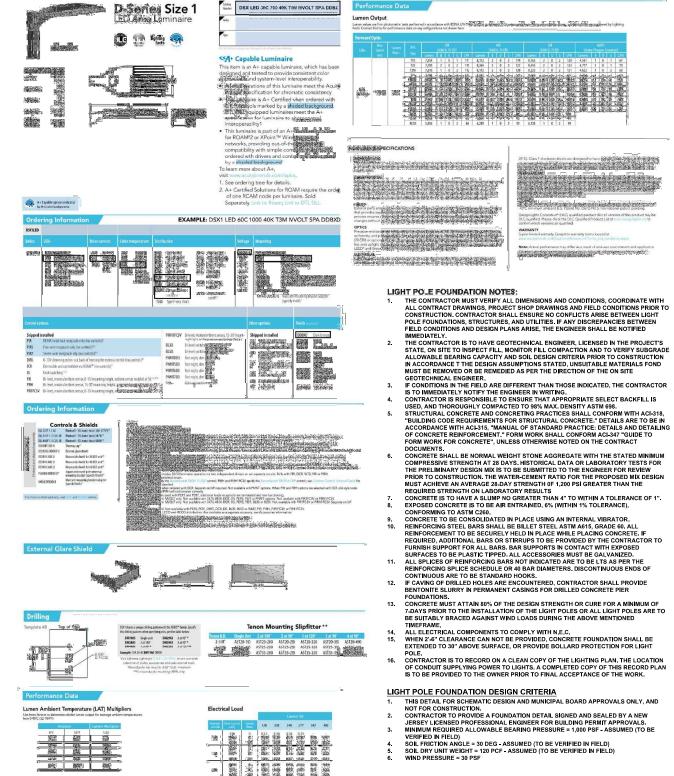




RIPRAP APRON

EBA

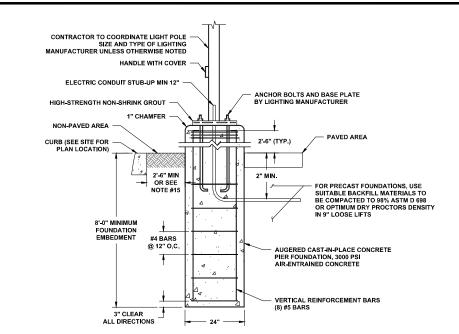
REVISION B



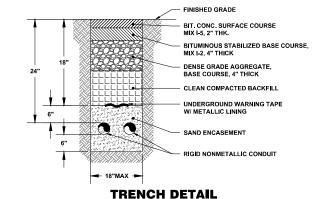
AREA LIGHT FIXTURE DETAIL

Projected LED Lumer Mair

DSX LEB 30C 700 40K TSW MYOLT SPA DDBX



LIGHT POLE FOUNDATION DETAIL



SCHEDULE 40 PVC CONDUIT FOR ELECTRICAL WIRING

(IN PAVEMENT AREA)

N.T.S.

LIGHT POLE FOUNDATION DESIGN CRITERIA THIS DETAIL FOR SCHEMATIC DESIGN AND MUNICIPAL BOARD APPROVALS ONLY, AND NOT FOR CONSTRUCTION.

CONTRACTOR TO PROVIDE A FOUNDATION DETAIL SIGNED AND SEALED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER FOR BUILDING PERMIT APPROVALS.

MINIMUM REQUIRED ALLOWABLE BEARING PRESSURE = 1,000 PSF - ASSUMED (TO BE VIRDINGED AND SEALED BY A NEW JERDINGED AND SEALED BY A SECOND SEALED BY A SECOND

ITONITE SLURRY IN PERMANENT CASINGS FOR DRILLED CONCRETE PIER

ESNA INTERVALE CONTROL OF CONTROL

course, inversions designed to have (2 gar. 145-74), 2 have (3 gar. 145-74).

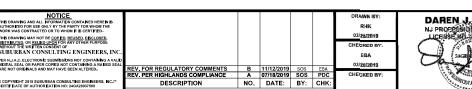
PPP to the second second second

And the Control of th

SOIL FRICTION ANGLE = 30 DEG - ASSUMED (TO BE VERIFIED IN FIELD)

SOIL DRY UNIT WEIGHT = 120 PCF - ASSUMED (TO BE VERIFIED IN FIELD)

WIND PRESSURE = 30 PSF





MARS INCORPORATED PROPOSED TRAILER PARKING LOT BLOCK 4, LOT 1 TOWN OF HACKETTSTOWN COUNTY OF WARREN, STATE OF NEW JERSEY

NTS SHEET 14 OF 14

 REV. FOR REGULATORY COMMENTS
 B
 11/12/2019
 SOS
 EBA

 REV. PER HIGHLANDS COMPLIANCE
 A
 07/18/2019
 SOS
 PDC

 DESCRIPTION
 NO.
 DATE:
 BY:
 CHK:
 REVISIONS

DATE: 03/28/2019

CONSTRUCTION DETAILS IV

REVISION B

ROJECT NUMBE

SCE-8719.074

SCALE: