

Friday, February 7, 2025

Ms. Kimberly Cole

Department of Natural Resource and Environmental Control

Delaware Coastal Management Program

89 Kings Highway

Dover, DE 19901

SUBJECT: Dobbinsville Fishing Pier & Parking Lot Improvements

Request for Delaware Coastal Management Federal Program Consistency Certification

Dear Ms. Cole:

On behalf of DNREC Division of Fish and Wildlife (DFW), Century Engineering Inc. (Century) has prepared a determination for Coastal Zone Management Federal Consistency Certification as it applies to the Dobbinsville Fishing Pier & Parking Lot Improvements (project) located at the Deemers Beach River access area in New Castle, New Castle County, Delaware. A Coastal Zone Management Federal Consistency determination is required for this project in concurrence with a USACE Individual Permit. This project is located within the Delaware Coastal Zone (39° 39' 10.6" N, 75° 34' 56.5" W). The proposed project plans consist of constructing a fishing pier and improving the existing gravel parking lot. The fishing pier will be ADA compliant and will end in a T-pier. An ADA compliant trail from the parking lot will cross the existing paved levee trail and connect to the proposed pier. The existing gravel parking lot will be expanded to create a better configured parking lot with defined parking areas, ADA compliant spaces, provisions for drainage, and asphalt cover. The entrance to the existing parking lot will be upgraded to comply with DelDOT standards and provide additional visibility into the parking lot and the pier beyond. The pier will be approximately 284 ft long from the MHW line (234 ft from MLW), 12 ft wide for the first 260 ft out (212 ft from MLW), with a wider pier at the end with a width of 42 ft for the remaining 22 ft out. The pier takes up roughly 2.3% of the channel width from MLW and roughly 2.8% of the channel width from MHW. This meets the requirements under 7 Del.C. §7504 4.9.2.5. Thirty-seven (37) steel piles will be used to support the pier. They will be installed from a barge using a vibratory hammer or diesel impact hammer. DNREC and NOAA guidelines will be followed requiring a soft start before pile-driving. Pile-driving details are outlined in the environmental compliance sheets of the design plans. The pier will have aluminum decking and railing and will include provisions for fishing activities and the necessary safety elements. Given the location and nature of the project, complete avoidance of adverse environmental impacts is impractical however, anticipated impacts are minimal. The proposed action does not include dredging or fill.

This project is being submitted to the Philadelphia USACE-Dover Field Office. Impacts to federally regulated waters/wetlands will be permitted though the USACE Individual Permit. Impacts to State regulated wetlands/subaqueous lands will be permitted by the applicable DNREC-WSLS applications. The project area is within the limits of a levee regulated by the US Army Corps of Engineers. The proposed project was presented at a City of New Castle Delaware regular meeting on July 11, 2023. The discussion resulted in "Resolution No. 2023-22" which included an understanding that "all facilities will be



constructed in a manner that protects the integrity of the dike" and ultimately resulted in the negotiated MOA for construction. The pier was designed to not impact the performance of the existing levee.

Consultation with USFWS indicated proposed project activities are unlikely to adversely affect federally listed rare, threatened, or endangered species. A tree-cutting time-of-year restriction of April 1 to November 15 will be employed to avoid impacts to the Northern long-eared bat and tricolored bat. The NOAA Essential Fish Habitats (EFH) mapper indicated that the project boundary intersects with EFH for 12 species and one (1) Habitat Areas of Particular Concern (HAPC). The NOAA Fisheries Section 7 mapper identified five (5) life stages of Atlantic sturgeon and four (4) life stages of shortnose sturgeon that may occur within the vicinity of the action area. DNREC-SCRP reported the project area is near habitat utilized by Atlantic sturgeon and shortnose sturgeon. This area of the Delaware River is a significant juvenile Atlantic sturgeon habitat as well with numerous catches in this range of the river. This area of the Delaware River is classified by the National Marine Fisheries Service as Atlantic Sturgeon Critical Habitat. A NOAA Fisheries GARFO Essential Fish Habitat (EFH) Assessment and Fish and Wildlife Coordination Act (FWCA) Consultation Worksheet and a GARFO ESA Section 7: NLAA Program Verification Form will be included as supporting information for the USACE IP application for further consultation with NOAA Section 7. In a letter dated June 7, 2024, DNREC- Species Conservation and Research Program (SCRP) indicated that the project area does not lie within a State Natural Heritage Site, nor does it lie within a Delaware National Estuarine Research Reserve. The review identified two (2) species of fish, two (2) species of bats, and the potential for marsh nesting birds to occur at or adjacent to the project site. The SCRP determined The SCRP recommends a work restriction April 1st to July 31st to avoid impacts to marsh nesting birds. In addition, the Delaware River is utilized by anadromous fish species so a time of year restriction on in-water work March 15th to June 30th was requested. In summary, a construction timeof-year restriction of March 15 – July 31 and a tree-cutting time-of-year restriction of April 1 – November 15 will be in place to adhere to all permit requirements and RTE guidance.

The Delaware State Historic Preservation office (SHPO) was notified of the project on May 13, 2024. The 30-day comment period has passed, so we have assumed concurrence with our "No Adverse Effects" findings.

The proposed activity complies with Delaware's approved coastal management program and will be conducted in a manner consistent with such program. The following documentation and information are included to support the consistency determination and how this project complies with the Delaware Coastal Management Program.

- 1. Completed Delaware Federal Consistency Form v2
- 2. Delaware Costal Zone Regulated Area Map
- 3. Copy of USACE Individual Permit Application Package (includes Aerial Map, Vicinity Map, USGS Map, FIRMETTE, Wetland Impacts Map, and Design Plans)
- 4. Copy of DNREC WLSL Permit

We are requesting your concurrence with our determination of consistency. Should you have any questions or require additional information, please do not hesitate to contact me.



Sincerely,

Rachel Owrutsky, Environmental Scientist
CENTURY ENGINEERING, LLC, A KLEINFELDER COMPANY

cc: Jeremy Ashe, DNREC-DFW

Alex Schmidt, Century Engineering, LLC

Delaware Department of Natural Resources and Environmental Control Delaware Coastal Management Program



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Updated On:	
Complete:	
Officia	Use Only

Coastal Zone Management Act Federal Consistency Form

This document provides the Delaware Coastal Management Program (DCMP) with a Federal Consistency Determination or Certification for activities regulated under the Coastal Zone Management Act of 1972, as amended, and NOAA's Federal Consistency Regulations, 15 C.F.R. Part 930. Federal agencies and other applicants for federal consistency are not required to use this form; it is provided to applicants to facilitate the submission of a Consistency Determination or Consistency Certification. In addition, federal agencies and applicants are only required to provide the information required by NOAA's Federal Consistency Regulations.

Proj	ect/Activity Name:		
I.	Federal Agency or Nor	n-Federal Applicant Co	ontact Information:
Con	tactName/Title:		
Fed	eral Agency Contractor Na	me (if applicable):	
(eith	eral Agency: er the federal agency prop stance to a non-federal ap		ederal agency issuing a federal license/permit or financial
Mail	ingAddress:		
City	:	State:	Zip Code:
E-m	ail:		Telephone #:
II.	Federal Consistency C	ategory:	
	Federal Activity or Develor (15 C.F.R. Part 930, Sub		Federal License or Permit Activity (15 C.F.R. Part 930, Subpart D)
	Outer Continental Shelf A (15 C.F.R. Part 930, Sub		Federal License or Permit Activity which occurs wholly in another state (interstate consistency
	Federal Financial Assista (15 C.F.R. Part 930, Sub		activities identified in DCMP's Policy document)
III.	Detailed Project Descr	iption (attach additional	I sheets if necessary):
	<u> </u>	<u> </u>	

/ .	General Analysis of Coastal Effects (attach additional sheets if flecessary).
	Detailed Analysis of Consistency with DCMP Enforceable Policies (attach additional sheets if necessary):
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_	licy 5.2: Beach Management
_	ilcy 3.2. Deach Management
	lieu F. 2. Constal Matera Management (includes wells, water supply, and starmwater management. Attach additional shoots if necess
_	licy 5.3: Coastal Waters Management (includes wells, water supply, and stormwater management. Attach additional sheets if necess
0	licy 5.4: Subaqueous Land and Coastal Strip Management
0	licy 5.5: Public Lands Management

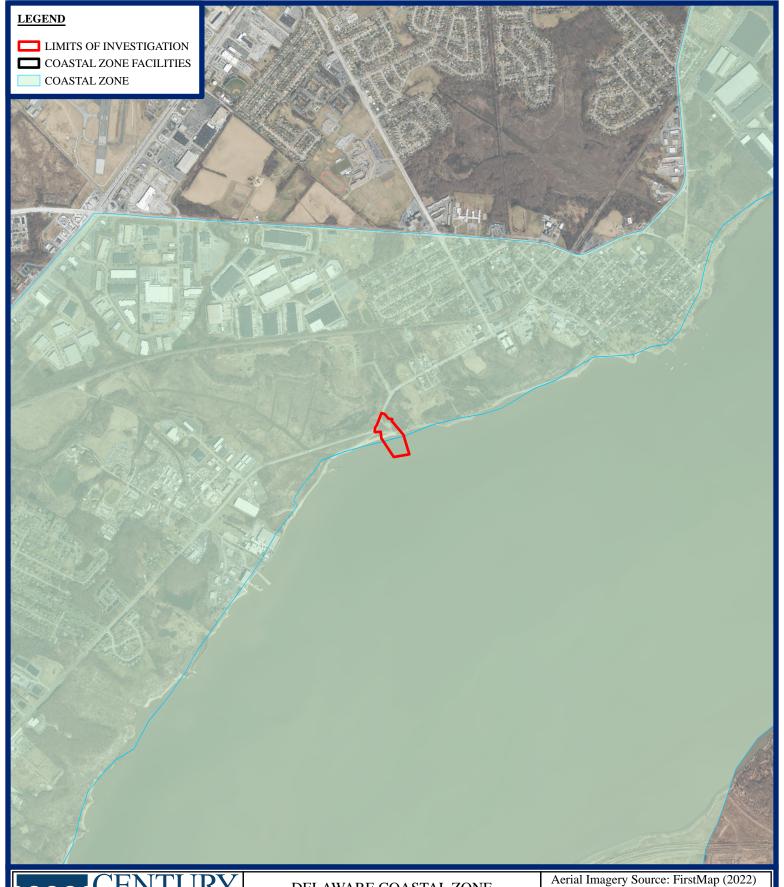
Policy 5.6: Natural Lands Management
Policy 5.7: Flood Hazard Areas Management
Folicy 3.7. Flood Hazard Areas Management
Policy 5.8: Port of Wilmington
Policy 5.9: Woodlands and Agricultural Lands Management
Policy 5.10: Historic and Cultural Areas Management
Policy 5.11: Living Resources
Tolloy of the Enviring Recognition
Policy 5.12 Mineral Resources Management

Policy 5.13: State Owned Coastal Recreation and Conservation
Policy 5.14: Public Trust Doctrine
Delieu F 45: Energy Feeilities
Policy 5.15: Energy Facilities
Policy 5.16: Public Investment
·
Dellas F 47 Decrea (for an LTanalan)
Policy 5.17: Recreation and Tourism
Policy 5.18: National Defense and Aerospace Facilities
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Policy 5.19: Transportation Facilities

Poli	icy 5.20: Air Quality Management	:	
Polic	icy 5.21: Water Supply Manageme	ent	
Polic	cy 5.22: Waste Disposal Manager	ment	
Poli	cy 5.23: Development		
Poli	cy 5.24: Pollution Prevention		
Poli	icy 5.25: Coastal Management Co	ordination	
VI.	JPP and RAS Review (Check a	ull that apply):	
			ng and/or Regulatory Advisory Service meeting?
	<u></u>	_	_
	☐ JPP I	RAS	None
	*If ves. provide the date of the me	eetina(s):	

attach details)

VII.	Statement of Certification	n/Determination	on and Signatı	ure (Check one a	and sign below)	:
	FEDERAL AGENCY CONSISTENCY DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity is consistent to the maximum extent practicable with the enforceable policies of the Delaware Coastal Management Program.					
	OR					
	FEDERAL AGENCY NEGATIVE DETERMINATION. Based upon the information, data, and analysis included herein, the federal agency, or its contracted agent, listed in (I) above, finds that this proposed activity will not have any reasonably foreseeable effects on Delaware's coastal uses or resources (Negative Determination) and is therefore consistent with the enforceable policies of the Delaware Coastal Management Program.					
	OR					
	NON-FEDERAL APPLICANT'S CONSISTENCY CERTIFICATION. Based upon the information, data, and analysis included herein, the non-federal applicant for a federal license or permit, or state or local government agency applying for federal funding, listed in (I) above, finds that this proposed activity complies with the enforceable policies of the Delaware Coastal Management Program and will be conducted in a manner consistent with such program.					
;	Signature:					
Print	ted Name:				Date:	
belov	pjection to this consistency w. Concurrence will be presteral Consistency Review De	umed if the st				
	eral Activity or Development F C.F.R. Part 930, Subpart C)	Project			tion to extend an C.F.R. § 930.41)	additional 15 days or
	Federal License or Permit (15 C.F.R. Part 930, Subpart D) Six months, with a status letter at three months. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.63)					
	Outer Continental Shelf Activity (15 C.F.R. Part 930, Subpart E) Six months, with a status letter at three months. If three month status letter not issued, then concurrence presumed. The six month review period can be stayed by mutual agreement. (15 C.F.R. § 930.78)			en concurrence v period can be stayed		
	eral Financial Assistance to S C.F.R. Part 930, Subpart F)	tate or Local G	Sovernments	State 0	Clearinghouse so	chedule
OFFI	CIAL USE ONLY:					
Revie	ewed By:		Fed Con ID:		Date Receive	ed:
Publi	ic notice dates:	to		Comments Re	ceived: N	O YES [attach comments]
Decis (objections	sion type:			_ Decisior	Date:	





550 Bay Road Dover, DE 19901 P: 302.734.9188 DELAWARE COASTAL ZONE REGULATED AREA

DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS

NEW CASTLE COUNTY, DELAWARE

Aerial Imagery Source: FirstMap (2022)
ArcGIS Online

3

1 inch = 2,000 feet

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

For use of this form, see 33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved -OMB No. 0710-0003 Expires: 2027-10-31

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

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		(ITI	EMS 1 THRU 4 TO B	E FILLED BY TH	HE CORPS)		
1. APPLICATION NO.		2. FIELD OFFICE CODE		3. DATE RECEIVED	4. DATE APPLI	CATION COMPLETE	
(ITEMS BELOW TO BE				FILLED BY AF	PPLICANT)		
5. APPLICANT'S NAME	Ē			8. AUTHORIZ	ZED AGENT'S NAME A	ND TITLE (agent i	s not required)
First -	Middle -	Last -		First -	Middle	- Last	-
Company -				Company -			
E-mail Address -				E-mail Addres	SS -		
6. APPLICANT'S ADDR	RESS:			9. AGENT'S A	ADDRESS:		
Address-				Address-			
City -	State -	Zip -	Country -	City -	State -	Zip -	Country -
7. APPLICANT'S PHON	IE NOs. w/AREA COD	E		10. AGENTS	PHONE NOs. w/AREA	CODE	
			c. Fax				c. Fax
			STATEMENT O	 F AUTHORIZAT	ION		
11. I hereby authorize,to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.					h, upon request,		
SIGNATURE OF APPLICANT				CANT	DATE		
	N	IAME, LOC	ATION, AND DESCR	RIPTION OF PRO	DJECT OR ACTIVITY		
12. PROJECT NAME (OR TITLE (see instruct	ions)					
13. NAME OF WATER	BODY, IF KNOWN (if	applicable)		14. PROJECT	STREET ADDRESS (if	applicable)	
				Address			
15. LOCATION OF PRO	DJECT				_		_
Latitude: ∘N	Long	itude: ∘W		City -	S	tate-	Zip-
16. OTHER LOCATION	DESCRIPTIONS, IF I	KNOWN (se	ee instructions)				
State Tax Parcel ID			Municipality				
Section -	Township	-		Range	e -		

17. DIRECTIONS TO THE SITE	
18. Nature of Activity (Description of project, include all features)	
16. Natare of Activity (2000) project, molade all readures)	
19. Project Purpose (Describe the reason or purpose of the project, see instructions)	
USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED)
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USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED 20. Reason(s) for Discharge	
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	See Appendix C
20. Reason(s) for Discharge 21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:	
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24. Is Any Portion of the	Work Already Complete? [Yes No IF YES, DES	SCRIBE THE COMPLETED WOF	₹К
25. Addresses of Adjoinir	ng Property Owners, Lesse	ees, Etc., Whose Property Adjo	ins the Waterbody (if more than can b	be entered here, please attach a supplemental list).
a. Address-				
City -		State -	Zip	_
Oity -		otate -	ک اب	
b. Address-				
City -		State -	Zin	
City -		State -	Zip	-
c. Address-				
City		Stata	7:5	
City -		State -	Zip	-
d. Address-				
O'A		04-4-	7:	
City -		State -	Zip	-
e. Address-				
City -		State -	Zip	-
		eceived from other Federal, Sta IDENTIFICATION	ite, or Local Agencies for Work D	
AGENCY	TYPE APPROVAL*	NUMBER	DATE APPLIED DAT	TE APPROVED DATE DENIED
* Would include but is not	restricted to zoning, building	ng, and flood plain permits		
				this information in this application is cting as the duly authorized agent of the
0101171	OF ADDITIONAL T		010147175	AOENT DOTE
	E OF APPLICANT e signed by the person	DATE who desires to undertake th	SIGNATURE OF A ne proposed activity (applican	AGENT DATE at) or it may be signed by a duly
		as been filled out and signe		-,
18 II S.C. Section 1001	1 provides that: Whoove	er in any manner within the	jurisdiction of any departmen	it or agency of the United States
		-	- · · · · · · · · · · · · · · · · · · ·	r makes any false, fictitious or frauduler

ENG FORM 4345, OCT 2024 Page 3 of 3

statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent

statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

U.S. Army Corps of Engineers (USACE) ENG 4345 PROJECT INFORMATION SHEET				
(ITEMS 1 THRU 3 TO BE FILLED OUT BY THE CORPS)				
1. APPLICATION NO.	2. FIELD OFFICE CODE	ELLED GOT BY THE	3. DATE RECEIVED	
	(ITEMS BELOW TO BE FI	LLED OUT BY APPL	ICANT)	
4. SELECT THE TYPE OF PERMIT YOU'RE REQ				
Standard Letter of Permission General	Permit			
5. SELECT A DEVELOPMENT TYPE				
☐ Commercial ☐ Non-commercial ☐ Governm	nent/Tribal			
6. APPLICABLE STATUTORY AUTHORITY				
☐ Section 404 Clean Water Act ☐ Section 10 Ri	vers and Harbors Act 🔲 S	Section 103 of the Ma	rine Protection, Research, and Sanctuaries Act	
	ENDANGERED AND TH	HREATENED SPECI	ES	
7. DESCRIBE YOUR CURRENT KNOWLEDGE OF PROJECT OR ACTION AREA	ENDANGERED SPECIES	THAT MAY BE AFF	ECTED BY ACTIVITIES OCCURRING WITHIN THE	
	HISTORIC P	ROPERTIES		
8. DESCRIBE YOUR CURRENT KNOWLEDGE OF OCCURRING WITHIN THE AREA OF POTENTIAL		THAT WOULD HAV	E THE POTENTIAL TO BE IMPACTED BY ACTIVITIES	
	NATIONAL WILD AN	ND SCENIC RIVERS		
9. IF THE PROPOSED ACTIVITY WOULD OCCUR RIVER, LIST THE RIVER OR STUDY RIVER	R IN A NATIONAL WILD AN	D SCENIC RIVER S	YSTEM OR IN AN OFFICIALLY DESIGNATED STUDY	
	SECTION 400 USAGE O	IVII WORK BBO IS	276	
10. WILL THE PROPOSED ACTIVITY REQUIRES		USACE PURSUANT	-	
Yes No I'm not sure		5 5. ENGINEERO		
11. IF BLOCK 10 IS YES, HAVE YOU SUBMITTED	A WRITTEN REQUEST	12. IF BLOCK 11 IS	YES, PROVIDE THE DATE YOUR REQUEST WAS	
FOR SECTION 408 PERMISSION FROM THE USACE DISTRICT HAVING JURISDICTION OVER THAT PROJECT?				
☐ Yes ☐ No				

SECTION 103 OF THE MARINE PROTECTION	DN, RESEARCH, AND SANCTUARIES ACT
13. HAS THE PROPOSED DISPOSAL SITE BEEN DESIGNATED FOR USE E MARINE PROTECTION, RESEARCH, AND SANCTUARIES ACT OF 1972, AS	
14. IF BLOCK 13 IS NO, DESCRIBE THE CHARACTERISTICS OF THE PROF PREVIOUSLY DESIGNATED DISPOSAL SITE IS FEASIBLE	POSED DISPOSAL SITE AND AN EXPLANATION AS TO WHY NO
15. DESCRIBE KNOWN DREDGED MATERIAL DISCHARGES AT THE PROF	POSED DISPOSAL SITE
16. PROVIDE THE EXISTENCE AND DOCUMENTED EFFECTS OF OTHER AREA (E.G., HEAVY METAL BACKGROUND READING AND ORGANIC CAR	
17. PROVIDE THE ESTIMATED LENGTH OF TIME DURING WHICH THE DISPOSAL WOULD CONTINUE AT THE PROPOSED SITE (in months)	18. PROVIDE THE SOURCE OF THE MATERIAL
19. DESCRIBE THE TYPE AND COMPOSITION OF THE MATERIAL	20. DESCRIBE THE METHOD OF TRANSPORTATION AND DISPOAL OF THE MATERIAL

Appendix B. Aquatic Resource Inventory:

Aquatic Resource Name	State	Cowardin System	Cowardin Class	HGM Class	Local Waterway Name	Measurement Type	Measure ment Amount	Measurem ent Units	Waters Type	Latitude	Longitude

Appendix C. Impact Inventory:

Water Name	Impact Name	Activity	Type of Material Being Discharged	Resource Type	Perman ent Loss (Y/N)	Impact Duration	Amount Type	Proposed Length	Proposed Width	Proposed Amount	Amount Units

Definitions and help text

Water Name: The name of the wetland, stream, or other type of water that would be impacted.

Impact Name: Useful if entering more than one impact for the same or multiple waters (e.g., linear projects) and name accordingly. This may be different than the Water Name; keep it short and simple. For example, if Stream-1 is the water, the impact name could be "Crossing-1," "Crossing-2," "Crossing-3." A short name helps describe the impact and is useful when looking at a list of impacts.

Activity: Options are:

- Conversion of waters type (forested wetland to emergent wetland, stream to lake)
- Discharge of dredged material
- Discharge of fill material
- Dredging (Section 10)
- Ecological restoration
- Other (Aquaculture, Work, Aerial or Submarine cable crossings)
- Removal (Sec 10 structures)
- Structure (Sec 10 only)
- Transport of dredged material (Sec 103)

Type of Material Being Discharged: Describe the material to be discharged within USACE jurisdiction. Make sure this description is consistent with your illustrations. Discharge material includes: rock, sand, clay, concrete, etc.

Resource Type: Options are Harbor/Ocean, Lake, Non-Tidal wetland, Other, Pond, River/Stream, and Tidal wetland.

Permanent Loss (Y/N): Only enter "YES" when the 'discharge of dredged or fill material' activity types are chosen. A permanent loss means the conversion of an aquatic resource to dry land.

Impact Duration: Options are Permanent or Temporary. An example of a temporary impact is the discharge of fill for temporary access roads that are later removed and returned to pre-construction contours.

Amount Type: Options are Area or Volume.

Amount Units: Options are Acre or Square Feet if Amount Type=Area, Cubic Yards if Amount Type=Volume.

Proposed Length and Proposed Width: Unit is linear feet.

Proposed Amount: Unit is square feet.

Appendix H. Supporting Information:

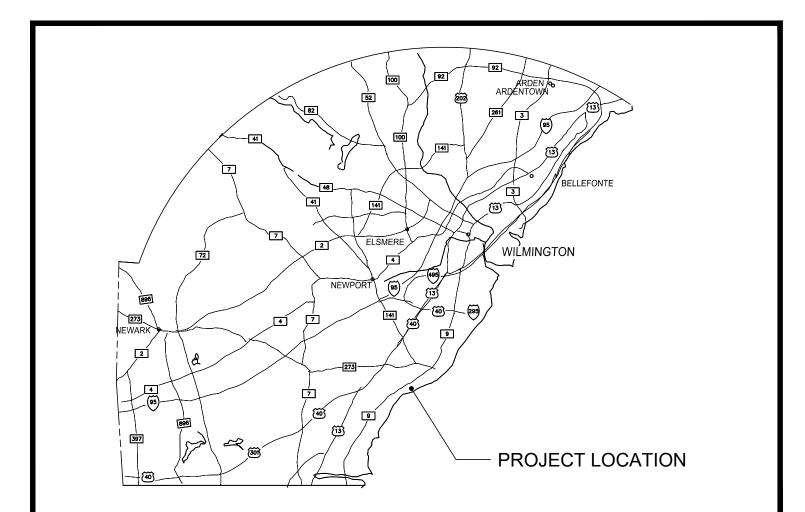
Document Type	Document Created Date	Document Label	Information Source/Citation	Uploaded file name

STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL DIVISION OF FISH AND WILDLIFE

DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS

PROJECT LOCATION

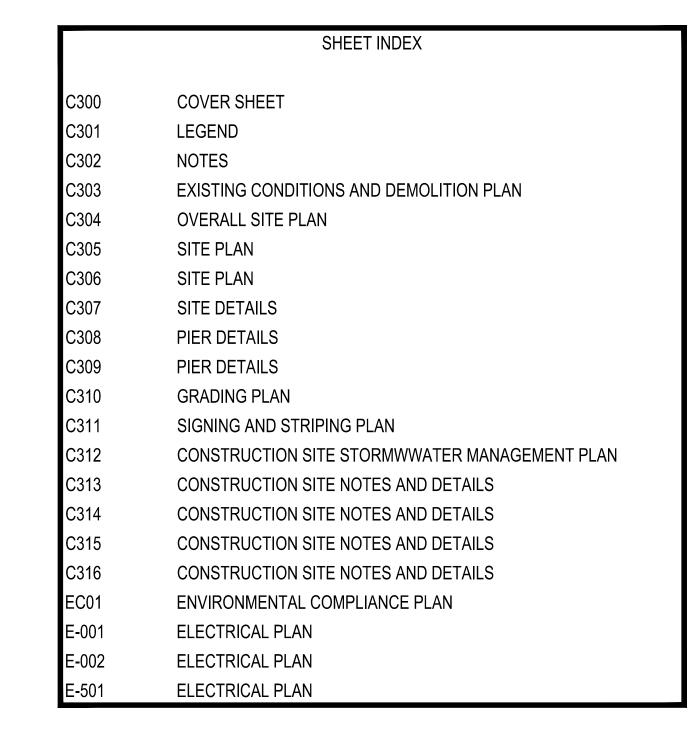
VICINITY MAP

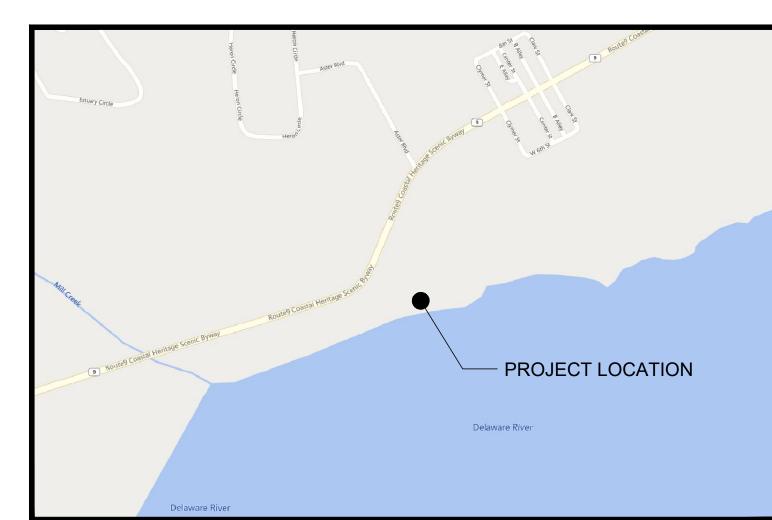


LOCATION MAP

CITY OF NEW CASTLE, NEW CASTLE COUNTY, DELAWARE CONTRACT NO. NAT202401 FEBRUARY, 2025 99% DESIGN DEVELOPMENT SUBMISSION







SITE MAP

SIGNATURE

CERTIFICATION OF DEVELOPER JEREMEY ASHE, HEREBY CERTIFY THAT DELAWARE DIVISION OF FISH & WILDLIFE IS THE DEVELOPER OF THE PROPERTY ESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT MY DIRECTION, AND THAT I ACKNOWLEDGE THE SAME TO ME BY ACT AND DESIRE THE PLAN TO BE DEVELOPED AS SHOWN IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (L.F., BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT. AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS.

JEREMEY ASHE - CONSTRUCTION MANAGER DELAWARE DIVISION OF FISH & WILDLIFE 89 KINGS HIGHWAY PHONE: (302) 735-3601

WETLAND DELINEATION THESE PROPERTIES, TAX MAP 332-1.07-164.00 AND 332-1.07-165.00, HAS BEEN EXAMINED BY CENTURY ENGINEERING, LLC. FOR THE PRESENCE OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS (SECTION 404 AND SECTION 10), STATE SUBAQUEOUS LANDS AND STATE REGULATED WETLANDS AS ESTABLISHED BY THE REVIEWING AGENCIES IN THE FORM OF MANUALS, POLICIES AND PROCEDURES IN PLACE AT THE TIME THAT THE INVESTIGATION AS CONDUCTED. THE WETLAND INFORMATION CONTAINED IN THIS PLAN SET IS IN ACCORDANCE WITH THIS CRITERIA. THE WETLAND DELINEATION FOR THIS PROJECT WAS COMPLETED BY CENTURY ENGINEERING, LLC.

LEXANDER E. SCHMIDT, P.E., DE NO. 16139 CENTURY ENGINEERING, LLC. DOVER, DELAWARE 19901 PHONE: (302) 734-9188 / FAX: (302) 734-4589

CERTIFICATION OF PLAN ACCURACY HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES. ALEXANDER E. SCHMIDT, P.E., DE NO. 16139

CENTURY ENGINEERING, LLC.

550 SOUTH BAY ROAD

FAX: (302) 734-4589

DOVER, DELAWARE 19901

PHONE: (302) 734-9188

DIVISION OF FISH AND WILDLIFE 89 KINGS HIGHWAY DOVER, DELAWARE 19901 (302) 739-9231 (302) 739-7026 (FAX)

SHEET NO.: CONTRACT NO.:

FISHING PIER AND IMPROVEMENTS DOBBINSVILLE I PARKING LOT

PROJECT NO.: 20233502.004A



DESIGNED BY:

DRAWN BY:

CHECKED BY:

FEBRUARY, 2025

AS NOTED

MANMADE ROADSIDE FEATURES					
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID		
BOLLARD - STEEL POLE	©	•			
BOLLARD - WOOD POST	\boxtimes				
CURB, TYPE 1 AND TYPE 3			=		
CURB, TYPE 2			•		
CURB & GUTTER, TYPE 1			$C \times X$		
CURB & GUTTER, TYPE 2			•		
CURB & GUTTER, TYPE 3					
FENCE - CHAINLINK OR STRANDED	x	х	-		
FENCE - STOCKADE OR SPLIT RAIL			-		
FLAG POLE	FP ⊕	FP ●			
GUARDRAIL - STEEL BEAM, TYPE 1	. 0 0 0 0				
LAMP AND POST	LAMP	•			
MAILBOX	MB	МВ			
PAVEMENT			-		
PILLAR OR MISCELLANEOUS POST	0	•			
TRAFFIC SIGN AND POST	<u></u>	•			

DRAINAGE FEATURES						
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID			
BIOFILTRATION SWALE		—← BFS—►X—				
DITCH OR STREAM CENTERLINE	00	_xx				
DIRECTIONAL STREAM FLOW ARROW						
DRAINAGE INLET	C.B.		DI			
DRAINAGE JUNCTION BOX	J.B.		JB X			
DRAINAGE MANHOLE	D	•	MH			
DRAINAGE PIPE AND FLOW ARROW	SIZE TYPE	——————————————————————————————————————	PX			
FLARED END SECTION			FES X			
RIPRAP – AREA FEATURE	050505	505050	RR X			
SAFETY END SECTION			SES X			
UNDERDRAIN	—>UD —>UD — —→ UD — UD —		UD X			
UNDERDRAIN OUTLET			(UDO X			

GRADING					
FEATURE DESCRIPTION	EXISTING	PROPOSED			
CONTOUR					
SPOT ELEVATIONS	O XX.XX	OXX.XX			

UTILIT	Y FEATURES	
FEATURE DESCRIPTION	EXISTING	PROPOSED
CABLE TV DISTRIBUTION BOX	TV	
COMMUNICATIONS — UNDERGROUND	——————————————————————————————————————	UG-C
ELECTRIC - UNDERGROUND	———— UG-E	UG-E
ELECTRIC MANHOLE	E	
ELECTRIC METER	E.M.	E.M.
ELECTRIC TRANSFORMER	E.T.	Е.Т.
GAS – UNDERGROUND	——————————————————————————————————————	UG-G
GAS MANHOLE	©	
GAS METER	G.M.	
GAS VALVE	G.V.	
GAS PUMP – SERVICE STATION	G.P.	
IRRIGATION — UNDERGROUND	IRIR	—— IR ——— IR ——
ITMS — UNDERGROUND		ITMS
KNOX BOX	TIMO	IIMS —
LIGHTING – UNDERGROUND	LILI	
LUMINAIRE — POLE MOUNTED	<u> </u>	
MANHOLE — UNDETERMINED OWNER	(H)	
RAILROAD TRACKS		
SANITARY — UNDERGROUND	— S—— S—— S—	<u> </u>
SANITARY SEWER MANHOLE	S.V.	•
SANITARY SEWER VALVE	0	S.V.
SANITARY SEWER CLEANOUT OR VENT	CO	CO •
SEPTIC DRAIN FIELD	S.D.F.	
SIGNALIZATION — UNDERGROUND	——————————————————————————————————————	SIG
SOIL BORING LOCATION	•	
TELEPHONE BOOTH	В	
TELEPHONE MANHOLE	T	
TELEPHONE TEST POINT	ПР	
TRAFFIC — CONDUIT JUNCTION WELL	J.W.	
TRAFFIC - LIGHT POLE AND BASE	(0)	
TRAFFIC – PEDESTRIAN POLE & BASE	0	
TRAFFIC - SIGNAL CABINET & BASE		
TRAFFIC — SIGNAL POLE AND BASE	⊗	
UNKNOWN UTILITY - UNDERGROUND		
UTILITY BOX	UB	
UTILITY POLE GUY WIRE ANCHOR	⊙⇒	⊙→
UTILITY POLE	Ø	`•
UTILITY TEST HOLE LOCATION	<u> </u>	
WALL PACK - LIGHTING		, .
WATER — UNDERGROUND		W.P.
		w
WATER METER	₩.M.	<u>W.</u> M.
WATER METER	W.V.	W.V.
WATER VALVE	0	W.V.
	F1)() I	
WATER — FIRE DEPARTMENT CONNECTION	FDC O WELL	WELL

PAVEMENT SECTION(S)	
MILL AND OVERLAY — SEE TYPICAL SECTIONS FOR MATERIAL AND DEPTHS	
FULL DEPTH PAVEMENT — SEE TYPICAL SECTIONS FOR MATERIAL AND DEPTHS	
SHARED USE PATH	
GRAVEL	
CONCRETE	
PERMEABLE PAVEMENT	

NATURAL ROADSIDE FEATURES					
FEATURE DESCRIPTION	EXISTING	PROPOSED			
HEDGEROW OR THICKET					
MARSH BOUNDARY LINE					
TREE - CONIFEROUS	*				
TREE - DECIDUOUS					
TREE STUMP	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□				
SHRUBBERY					
WETLAND BOUNDARY - DELINEATED					
WOODS LINE BOUNDARY		~~~~			
FLOODPLAIN	FP				

RIGHT-OF-WAY FEATURES				
FEATURE DESCRIPTION	EXISTING	PROPOSED		
CAPPED IRON PIPE	C.I.P.	CIP ●		
DENIAL OF ACCESS	——— DA ————	DA		
EASEMENT - OTHERS				
PERMANENT EASEMENT	PE	—— РЕ —		
PROPERTY LINE				
PROPERTY MARKER — CONCRETE	CM	C.M.		
PROPERTY MARKER - IRON PIPE	I.P.	I.P. ●		
RIGHT-OF-WAY BASELINE	100+00	100+00		
RIGHT-OF-WAY LINE	RW	RW		
RIGHT-OF-WAY & DENIAL OF ACCESS	R/W-DA			
RIGHT-TO-ENTER		RTE		
TEMPORARY CONSTRUCTION EASEMENT		—— тсе —		
CLEAR ZONE		—— cz —		
HORIZONTAL CLEARANCE		—— нс —		

FEATURE DESCRIPTION	EXISTING				
SURVEY BENCHMARK LOCATION	B.M. ●				
SURVEY TIE POINT LOCATION	T.P. +				
SURVEY TRAVERSE POINT	Δ				
MISCELLANEOUS FEATURES					

SURVEY CONTROL & MONUMENTATION

MISCELLANEOUS FEATURES					
FEATURE DESCRIPTION	PROPOSED				
BUTT JOINT					
CLEAR ZONE	CZ				
CONSTRUCTION BASELINE	100+00				
LIMIT OF CONSTRUCTION	LOC				
DEMOLITION					
P.C.C. SIDEWALK	Δ				
6" P.C.C. SIDEWALK					
PAVEMENT PATCH					
ACCESSIBLE RAMP	0707				
SAW CUT	SAW				

EROSION & SEDIMENT CONTROL FEATURES					
FEATURE DESCRIPTION	PROPOSED				
MIT OF DISTURBANCE	LOD				
MIT OF CONSTRUCTION	ьос				
ORTABLE SEDIMENT TANK	ST				
UMPING PIT	(PP-2)				
LT FENCE	——— SF ———				
OMPOST FILTER LOG	———— CFL ————				
ENSITIVE AREA PROTECTION	SAP				

FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	AB C
ABANDON BY OTHERS	AB
ADJUST BY CONTRACTOR	A C
ADJUST BY OTHERS	A
BEST MANAGEMENT PRACTICE	BMP
BUS STOP PAD / TYPE	BSP
BUS STOP WITH SHELTER PAD / TYPE	BSSP
CONCRETE SAFETY BARRIER	B XX
CONVERT TO JUNCTION BOX	CJB XX
CONVERT TO DRAINAGE MANHOLE	CDM
CONVERT TO DRAINAGE INLET	CDI
CURB	C XX
CURB RAMP	CR XX
DO NOT DISTURB	DND
ENERGY DISSIPATOR	ED XX
FILL WITH FLOWABLE FILL	FF C
LANDSCAPE PLANTINGS	LS
PEDESTRIAN CONNECTION / TYPE	PC
RELOCATE BY CONTRACTOR	RL C
RELOCATE BY OTHERS	RL
RELOCATE BY PROPERTY OWNER	RL
REMOVE BY CONTRACTOR	RMC
REMOVE BY OTHERS	RM
REMOVE BY TRAFFIC CONTRACTOR	RM TC
RIGHT-OF-WAY MONUMENT	RM
ABBREVIATION SCHEDULE	

ABBREVIATION	DEFINITION AMERICANS WITH DISABILITIES ACT
ADA ALLOW.	ALLOWABLE ALLOWABLE
ASD	ALLOWABLE STRESS DESIGN
ALUM	ALUMINUM
BL	BASE LINE
BOTT	ВОТТОМ
BRG	BEARING
CAP	CAPACITY
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CONC	CONCRETE
CONN	CONNECTION
CORR	CORRUGATED
CSJ	CONSTRUCTION JOINT
DFM	DIVISION OF FACILITIES MANAGEMENT
DIAG	DIAGONAL
DL	DEAD LOAD
DNREC DOL	DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTRO DEPARTMENT OF LABOR
DOT	DEPARTMENT OF TRANSPORTATION
E.F.	EACH FACE
EL., ELEV	ELEVATION
EQU.	EQUAL
EX., EXIST.	EXISTING
F.F.	FAR FACE
F'c	COMPRESSIVE STRENGH OF CONCRETE
FIN. FL.	FINISHED FLOOR
FIN. FL.	FINISHED FLOOR FINISHED GRADE
FND	FOUNDATION
FTG	FOOTING
Fy	YIELD STRENGTH OF STEEL
GABC	GRADED AGGREGATE BASE COURSE
GALV	GALVANIZED
HORIZ	HORIZONTAL
JT	JOINT
KSI	KIPS PER SQUARE INCH
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
LLBB	LONG LEG BACK TO BACK
LOC	LIMIT OF CONSTRUCTION
LOD	LIMIT OF DISTURBANCE
LRFD	LOAD RESISTANCE FACTORED DESIGN
MHW	MEAN HIGH WATER
MTL	METAL
NO	NUMBER
NOM	NOMINAL
N.F.	NEAR FACE
0.C.	ON CENTER
OHW	ORDINARY HIGH WATER
OPP	OPPOSITE
P.L.	PROPERTY LINE
PL	PLATE POUNDS DED COURDS INCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
REBAR	REINFORCING BAR
ROW, RW, R/W	RIGHT OF WAY
SF	SILT FENCE
SIM	SIMILAR
SLBB	SHORT LEG BACK TO BACK
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL STR	STEEL
<u> </u>	STRAIGHT TOP AND BOTTOM
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL VERTICAL
	WATER SURFACE ELEVATION
WSE	
WSE WWF	WELDED WIRE FABRIC

	BY:			
ONS:	DESCRIPTION:			
REVISIONS:	DATE:			

DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS

LEGEND

CIVIL ENGINEER:



PROJECT NO.: 20233502.004A



DESIGNED BY:

DRAWN BY:

CHECKED BY:

FEBRUARY, 2025

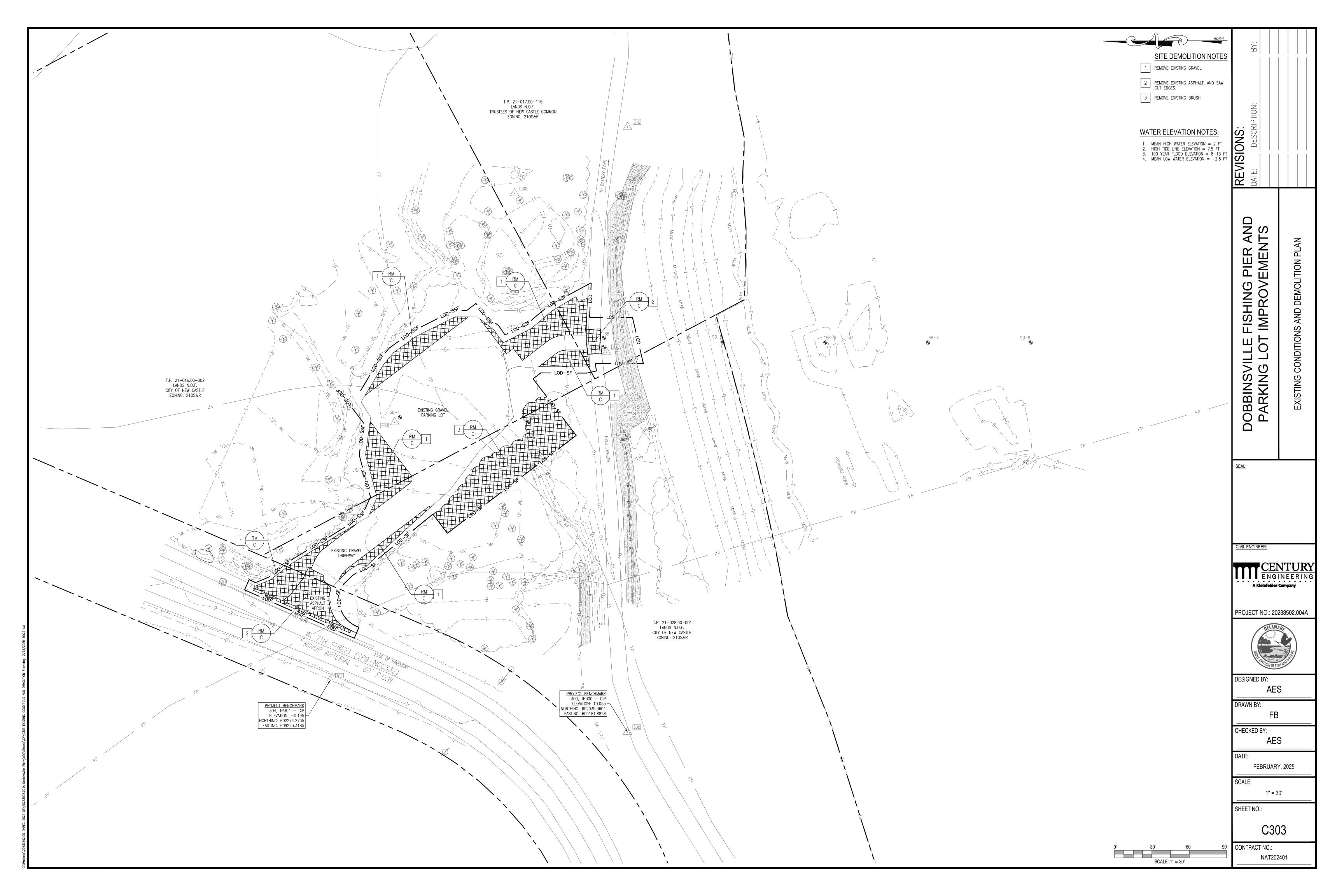
NO SCALE

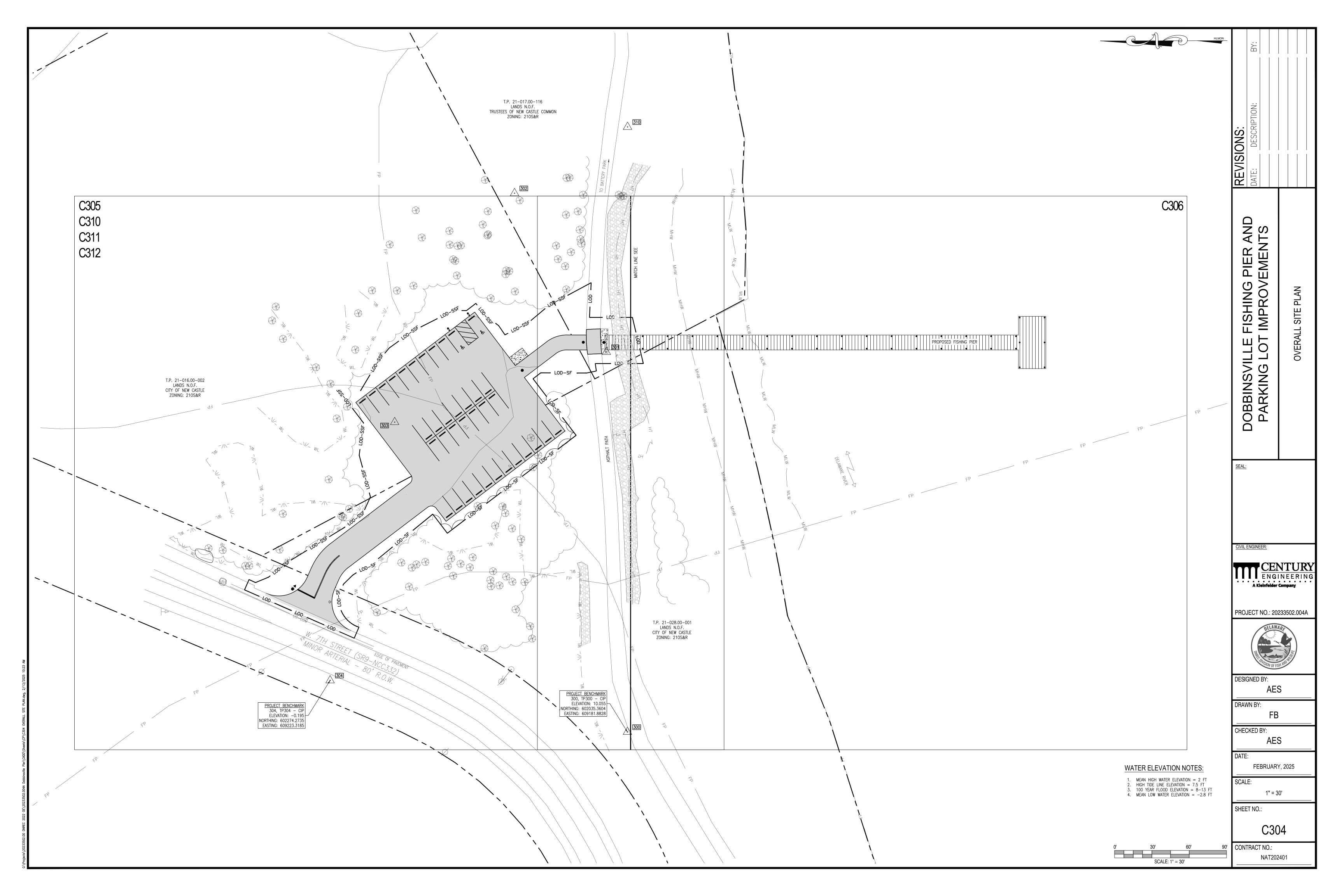
SHEET NO.:

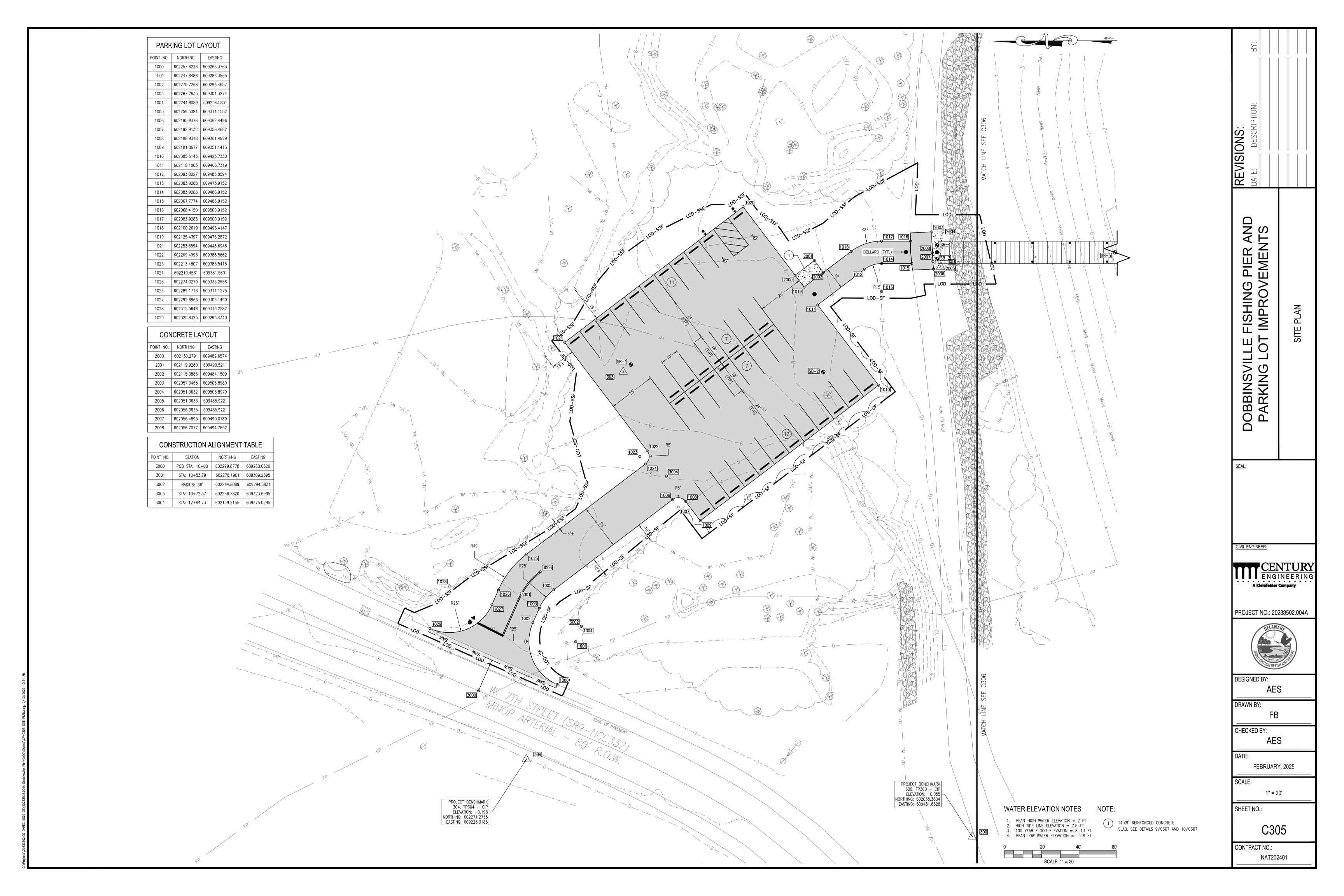
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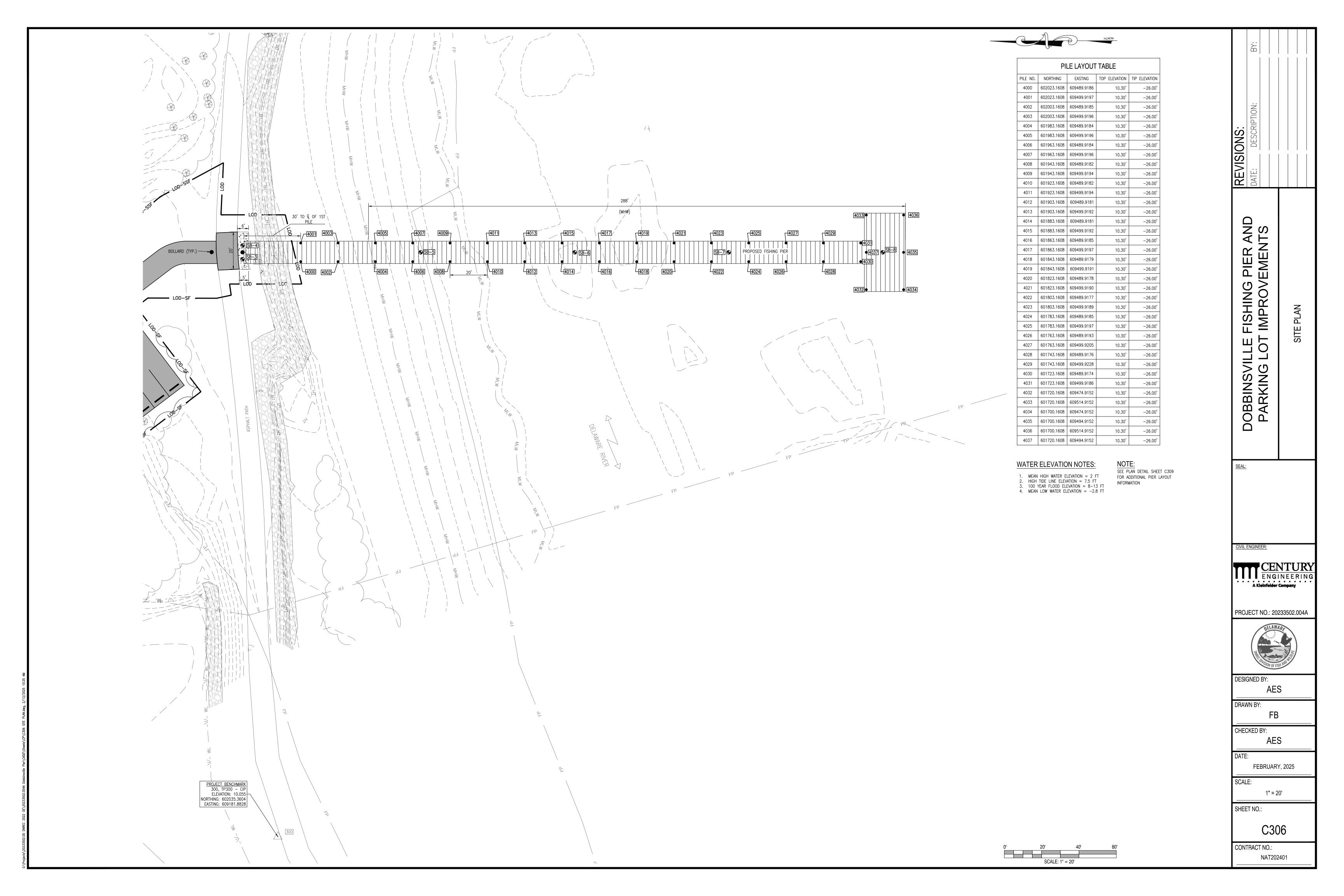
GENERAL NOTE: ALL ITEMS SHOWN MAY NOT BE PRESENT ON ALL SHEETS, OR PART OF THIS PROJECT.

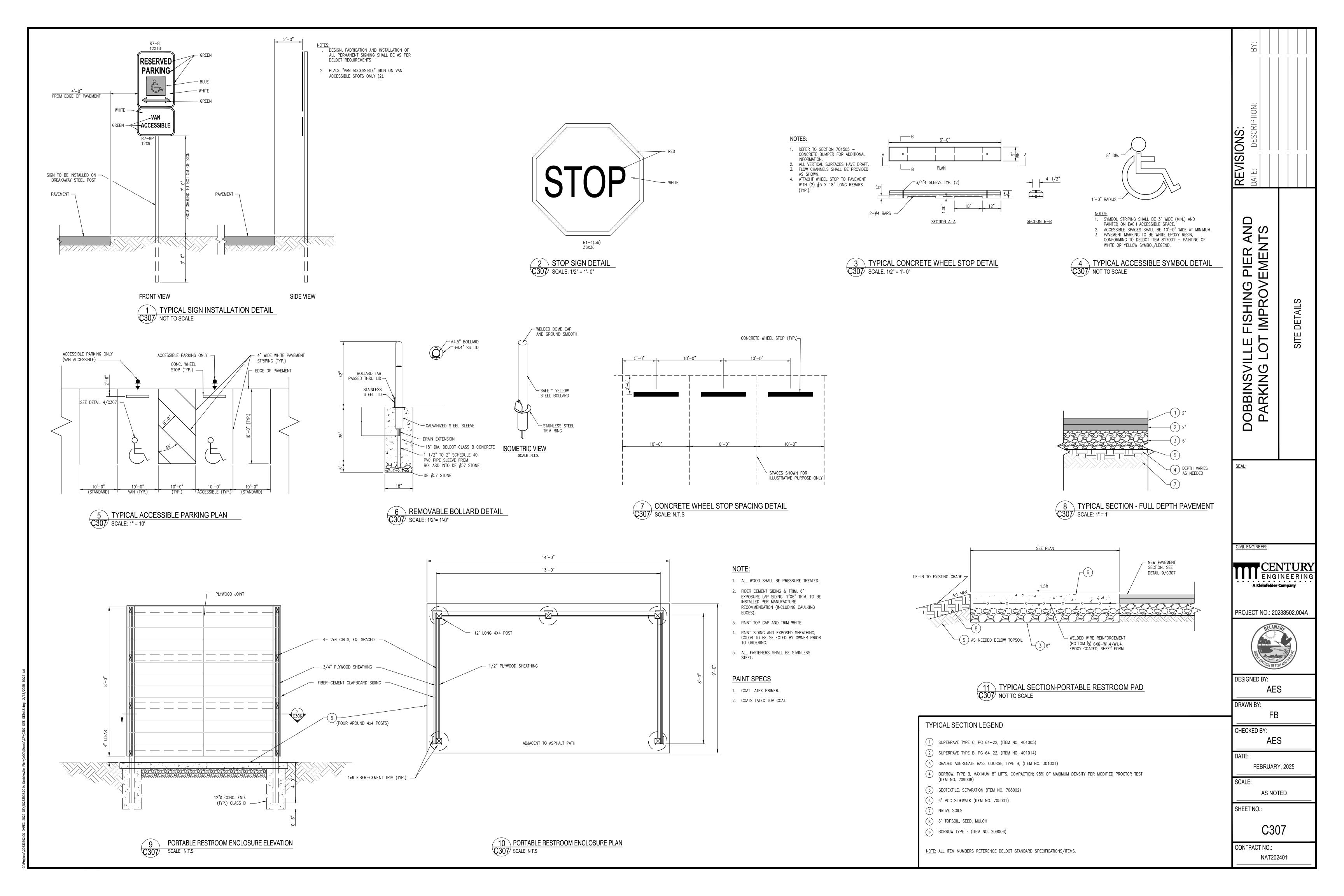
DAVING NOTES	CENEDAL NOTES		I DATA COLLIMA	
PAVING NOTES 1. CONTRACTOR SHALL PROVIDE OWNER AND ENGINEER A MINIMUM OF 2 WORKING DAYS NOTICE		OR "ARCHITECT" NOTED THROUGHOUT THE CONTRACT PLANS AND SPECIFICATIONS SHALL REFER	DATA COLUMN 1. PURPOSE OF PLAN:	
PRIOR TO EVERY PAVING DAY. IF THE CONTRACTOR DOES NOT PROVIDE ACCEPTABLE NOTICE, THE OWNER MAY REJECT ANY PAVING PERFORMED WITHOUT ACCEPTABLE NOTIFICATION.	TO DFW, OR THEIR APPOINTED REPRÉSI DOCUMENTS AS A MEANS OF IDENTIFYIN	ENTATIVE. THE TERM "SITE" AND "PARK" MAY BE USED INTERCHANGEABLY THROUGHOUT THESE NG DOBBINSVILLE FISHING PIER AND PARKING LOT.	THE PURPOSE OF THIS PLAN IS TO SHOW THE CONSTRUCTION OF A FISHING PIER AND EXPANDED PARKING LOT.	
2. MIX SHALL BE A DELDOT APPROVED MIX AS NOTED ON THE PLAN. CONTRACTOR SHALL PROVIDE ENGINEER WITH COPIES OF DELIVERY TICKETS BEARING THE DELDOT MIX DESIGNATION. 3. CONTRACTOR SHALL PROVIDE ENGINEER A PAVING PLAN FOR REVIEW AND APPROVAL. THE		AREAS AFFECTED BY THE CONSTRUCTION SHOWN HEREON AS SHOWN ON THESE PLANS AND PARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION, AND TO THE SATISFACTION OF DFW.	2. APPLICATION NUMBER: PARCEL 1 PARCEL 2 PARCEL 3	
PAVING PLAN SHALL SHOW THE DIRECTION, WIDTH, AND LENGTH OF ALL PASSES, THE LOCATION OF ANY COLD JOINTS, AND THE LOCATION OF ANY HAND WORK.	• • • • • • • • • • • • • • • • • • • •	ESSARY FACILITIES, INCLUDING, BUT NOT LIMITED TO, RESTROOMS DURING CONSTRUCTION. PARK PMENT PARKING AND MATERIAL STAGING SHALL BE LIMITED TO DESIGNATED STAGING &	3. TAX PARCEL NUMBER: 21-016.00-002 21-028.00-001 21-017.00-1	
4. PAVING OF THE FINAL ASPHALT LIFT SHALL BE PERFORMED IN A CONTINUOUS OPERATION UNLESS OTHERWISE APPROVED BY THE ENGINEER. 5. ALL HOT JOINTS SHALL BE TIGHT WITH NO VISIBLE SEAMS. COLD JOINTS SHALL ONLY BE	4. THE CONTRACTOR SHALL NOTE THAT IN	CASE OF DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON THE L. GOVERN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS.	4. ADDRESS: 0 RIVER ROAD 889 RIVER ROAD 0 FIFTH STRE NEW CASTLE, DE 19720 NEW CASTLE, DE 19720 NEW CASTLE,	
PLACED AT LOCATIONS APPROVED BY THE ENGINEER AND SHALL BE SEALED FOLLOWING PAVING. 6. THE OWNER SHALL HAVE THE OPTION TO REQUEST PAVEMENT CORES AND CORE HOLE		BLE FOR BRINGING ANY DIMENSIONAL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR	5. ZONING: OPEN SPACE/RECREATION OPEN SPACE/RECREATION OPEN SPACE/ 6. LOT AREA: 4.62± ACRES 7.38± ACRES 7.17± ACRES	
PATCHING IN ANY LIFT, AT THE EXPENSE OF THE CONTRACTOR. PAVEMENT CORES AT THE CONTRACTOR'S EXPENSE WILL BE LIMITED TO A MAXIMUM OF 1 CORE PER 2,500 SF. IF PAVEMENT CORES INDICATE THAT THE PAVEMENT IS NOT IN COMPLIANCE WITH THE PLAN	SEDIMENT CONTROL PLANS, A PERSON	PERSON WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE EROSION AND WHO SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE TRAFFIC CONTROL, AND E FOR WORKER SAFETY. THE PERSON RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE	7. NUMBER OF LOTS: EXISTING: 1 EXISTING: 1 EXISTING: 1 PROPOSED: 1 PROPOSED: 1 PROPOSED: 1	
REQUIRED THICKNESS, THE CONTRACTOR SHALL REPLACE THE NON-COMPLIANT PAVEMENT AT NO COST TO THE OWNER.		IS SHALL BE CERTIFIED BY DNREC FOR EROSION AND SEDIMENT CONTROL RESPONSIBILITY	8. SOURCE OF TITLE: I.N. 20051003 0100979 I.N. 20051003/0100979 I.N. C86 232	ONS
7. THE OWNER SHALL HAVE THE OPTION TO PERFORM DENSITY TESTING DURING PAVING OPERATIONS. IF DENSITY TESTING INDICATES THAT THE PAVEMENT IS NOT MEETING DENSITY SPECIFICATION, THE CONTRACTOR SHALL RECOMPACT THE PAVEMENT TO MEET DENSITY	PUBLIC ACCESS UNTIL COMPLETION OF	R SECURING THE AREA AND EXCAVATIONS WITHIN THE LIMITS OF CONSTRUCTION TO PROHIBIT THE PROJECT. AT A MINIMUM, ALL EXCAVATION SHALL BE BARRICADED WITH ORANGE SAFETY RE/METHOD FOR LIMITING ACCESS SHALL BE REVIEWED BY, AND COORDINATED WITH DFW AND	9. EXISTING USE: PARKING LOT/FISHING DOCK PARKING LOT/FISHING DOCK PARKING LOT/ 10. PROPOSED USE: PARKING LOT/BOAT RAMP PARKING LOT/FISHING DOCK PARKING LOT/	FISHING DOCK 5
SPECIFICATION. IF THE CONTRACTOR CANNOT MEET DENSITY SPECIFICATIONS WITHIN THE PAVEMENT WORKING WINDOW, THE CONTRACTOR SHALL REPLACE THE NON-COMPLIANT PAVEMENT AT NO COST TO THE OWNER.	THE CITY OF NEW CASTLE PRIOR TO THINCIDENTAL TO THE CONTRACT. CONTR	HE START OF WORK. THE COST TO INSTALL, RELOCATE, AND MAINTAIN SITE SECURITY SHALL BE VACTOR SHALL MAINTAIN PUBLIC ACCESS ON ALL TRAILS. IF CONTRACTOR MUST CLOSE ANY	11. TOTAL NUMBER OF LOTS: 3 (NO NEW BUILDING OR DWELLING LOTS PROPOSED ON THIS PLAN)	FISHING DOCK Y Y Y Y Y Y Y Y Y
8. ADDITIONAL REQUIREMENTS FOR PLACEMENT AND MIX SPECIFICATIONS ARE INCLUDED IN THE DELDOT STANDARD SPECIFICATIONS, INCORPORATED HEREIN BY REFERENCE.	7. THE CONTRACTOR IS SOLELY RESPONSI	E NOTICE 48 HOURS IN ADVANCE FOR APPROVAL BY THE ENGINEER. BLE FOR OBTAINING OFF-SITE SPOIL AREAS FOR LEGAL DISPOSAL OF ANY EXCESS MATERIAL	12. PROPOSED BUILDING SQUARE FOOTAGE: 0 S.F.	
	FOR RECYCLING, TRANSPORTING TO, PR	CESSARY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. ALL COST OCURING AND UTILIZING THE OFF-SITE SPOIL AREAS ARE TO BE INCIDENTAL TO THE CONTRACT.	22. TOPOGRAPHY: TOPOGRAPHY TAKEN FROM SITE SURVEY PREFORMED BY CENTURY ENGINEERING, LLC. IN JANUARY OF 2023.	
		MANUFACTURER'S RECOMMENDATIONS" FOR AN APPROVED MATERIAL AND THE GOVERNING MATERIAL, THE MORE RESTRICTIVE OF THE TWO SHALL PREVAIL, UNLESS OTHERWISE DIRECTED	23. DATUM: VERTICAL — NAVD88 HORIZONTAL — NAD83	
	REVISION TO THE DETAILS OR SEQUENC	CONCEPT OF THE RELATIONSHIP BETWEEN TRAFFIC CONTROL, EROSION CONTROL, ETC. ANY CE SHOWN ON THE CONSTRUCTION PLANS SHALL BE PREPARED BY THE CONTRACTOR ON	24. MONUMENTS: EXISTING: 0 (MONUMENTS) PROPOSED: 0 (MONUMENTS)	NA
	ACCORDANCE WITH CURRENT DFW STAN	BMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER. THE PLANS SHALL BE PREPARED IN IDARDS FOR TRAFFIC CONTROL, EROSION AND SEDIMENT CONTROL (PREPARED BY A CERTIFIED ER MANAGEMENT, ETC. AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER	25. SEWER PROVIDER: N/A	X
	REGISTERED IN THE STATE OF DELAWAR THE NUMBER OF COPIES REQUIRED TO	RE. ALL REQUIRED CALCULATIONS, REPORTS, ETC. SHALL ALSO ACCOMPANY THE SUBMISSION. BE SUBMITTED FOR REVIEW SHALL BE DETERMINED BY DFW, DEPENDING ON THE NATURE OF ACTOR SHALL NOTE THAT THE REVISIONS TO THE CONSTRUCTION PLANS, AS WELL AS REVIEW	26. WATER PROVIDER: N/A 27. ELECTRIC PROVIDER: N/A	= =
	TIME BY DFW, WILL NOT JUSTIFY A DEL COMPLETION OF A UTILITY STATEMENT A	LAY IN THE CONSTRUCTION SCHEDULE. REVISIONS INVOLVING UTILITIES WILL REQUIRE THE APPROVED BY THE RESPECTIVE UTILITIES AS PART OF THE PLAN DOCUMENTS. ALL COSTS //ISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	28. FLOODPLAIN MAP:	
	10. THESE DRAWINGS DO NOT INCLUDE NEG	CESSARY ELEMENTS OF CONSTRUCTION SAFETY. ALL CONSTRUCTION, INCLUDING EXCAVATION, WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, CFR	PER FEMA MAP NO. 10003C0164K, DATED FEBRUARY 04, 2015, THE SUBJECT PARCELS ARE DETERMINED TO BE AE HAZARD ZONES.	$ Z \cup $
		TATE AND LOCAL REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE	29. REQUIRED PARKING: REQUIRED: N/A PROPOSED: 20 TRAILER SPACES (INCLUDES 1 ACCESSIBLE SPACES) 13. CAR. SPACES (INCLUDES 5 ACCESSIBLE SPACES)	
		NED ON THE SITE UNLESS SPECIFICALLY NOTED WITHIN THESE PLANS OR SPECIFICATIONS. S UTILITY TWO (2) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, OR AS REQUIRED BY	12 CAR SPACES (INCLUDES 5 ACCESSIBLE SPACES 30. TOTAL LAND DISTURBANCE:	$\left \begin{array}{c} S \\ \overline{S} \end{array}\right $
	LAW, AT 1-800-282-8555.	LEAN SET OF AS—BUILT PLANS THAT SHALL ACCURATELY ILLUSTRATE ALL FIELD CHANGES NEATLY	THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 0.70± ACRES (30,582± S.F.) THE TOTAL LIMITS OF CONSTRUCTION PROPOSED BY THIS PLAN IS 1.50± ACRES (65,131± S.F.)	
		VAL AS-BUILT PLANS SHALL BE DATED AND SIGNED BY THE CONTRACTOR AND SUBMITTED TO	31. SITE BREAKDOWN: 0.70± ACRE LOD (30,582± S.F.)	
	 THE CONTRACTOR SHALL PROVIDE A MILE ENGINEER. 	NIMUM OF 48 HOURS NOTICE IN ADVANCE FOR ANY UTILITY DISRUPTION FOR APPROVAL BY THE	EXISTING SITE IMPERVIOUS: 0.50± ACRES 21,632± S.F. OPEN SPACE: 0.20± ACRES 8,950± S.F.	S 0
		NREC CERTIFIED BLUE CARD HOLDER ON SITE DURING ALL CONSTRUCTION ACTIVITIES.	OVERALL TOTAL: 0.70± ACRES 30,582± S.F. PROPOSED SITE	
	17. ALL FIXED DOCKS, HANDRAILS, ALUMINU	JM HEADER SUPPORT CHANNELS, AND ANCILLARY ITEMS TO BE PROVIDED BY OWNER AND	IMPERVIOUS: 0.46± ACRES 20,078± S.F. OPEN SPACE: 0.24± ACRES 10,504± S.F. OVERALL TOTAL: 0.70± ACRES 30,582± S.F.	<u>@</u> 폿
	18. PILE CAPS, SHALL BE PROVIDED AND I	MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. NSTALLED BY THE CONTRACTOR.	PROPOSED DECREASE IN IMPERVIOUS AREA: 0.04 ACRES (1,554± S.F.)	OB PA
	CONTRACTOR. THE CONTRACTOR SHALL	NG, AND ANCILLARY ITEMS SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE BE RESPONSIBLE FOR ACCEPTING THE DELIVERY AS WELL AS THE STORAGE AND HANDLING OF	32. WETLANDS: A SITE INVESTIGATION PERFORMED BY CENTURY ENGINEERING, LLC. ON MARCH, 2020 BY TJ AUSTIN CONFIRMED THAT	
	DOCK ITEMS.		REGULATED WETLANDS AND WATERS WERE LOCATED WITHIN THE SITE AREA. 33. OWNER/APPLICANT:	
	HIERARCHY OF CONTRACT DO	OCUMENTS CONSTRUCTED UTILIZING THE FOLLOWING INFORMATION IN THE HIERARCHY LISTED BELOW:	STATE OF DELAWARE DIVISION OF FISH AND WILDLIFE	
	1. CONTRACT AGREEMENT BETWEEN OWNE		89 KINGS HIGHWAY DOVER, DE 19901 JEREMEY ASHE	SEAL:
	 APPROVED PLANS. PROJECT MANUAL. REFERENCED TECHNICAL SPECIFICATION 	NC	(302) 735–3601 34. ENGINEER:	
		OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL EROSION AND SEDIMENT CONTROL	CENTURY ENGINEERING, LLC. 550 BAY ROAD	
	FIRE MARSHAL NOTES		DOVER, DE 19901 ALEX SCHMIDT, P.E. EMAIL: ASCHMIDT@KLEINFELDER.COM	
	NAME OF PROJECT:	DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS	PHONE: (302) 734–9188	
	ADDRESS OF SITE:	W. 7TH STREET NEW CASTLE DE, 19720	PROJECT NOTES	CIVIL ENGINEER:
	TAX PARCEL NUMBER: OWNER/APPLICANT:	21-016.00-002 & 21-028.00-001 & 21-017.00-116 STATE OF DELAWARE	THE INTENT OF THIS PROJECT IS TO PROVIDE THE FOLLOWING IMPROVEMENTS AT THE DOBBINSVILLE FISHING PIER AN 1.1. REMOVE PORTIONS OF EXISTING GRAVEL PARKING LOT AS SHOWN ON THE CONTRACT PLANS AND EXPAND O'	CEN
	, ,	DIVISION OF FISH AND WILDLIFE 89 KINGS HIGHWAY DOVER, DE 19901	GRAVEL PARKING LOT WITH ASPHALT PAVEMENT.	ENGII
		JEREMÉY ASHE (302) 735–3601	1.2. CONSTRUCT ALUMINUM FISHING PIER AS SHOWN ON THE CONTRACT PLANS. 1.3. PROVIDE PAVEMENT MARKINGS AND LIGHTING ON PARKING LOT AS SHOWN ON THE CONTRACT PLANS.	A Kleinfelder Co
		TRUSTEES OF NEW CASTLE COMMON 807 FRENCHTOWN ROAD NEW CASTLE, DE 19720	2. THESE PLANS WERE DEVELOPED FROM CONVENTIONAL SURVEY PERFORMED BY CENTURY ENGINEERING, LLC. CONTROL SURVEY HAVE BEEN INCLUDED IN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL ADD CONTROL AS REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.	POINTS FOR THE ITIONAL PHYSICAL PROJECT NO 2003
		PETER TONER (302) 322–2809	CONTROL AS REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER. 3. EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME THIS PLAN COMPLETENESS OR CORRECTNESS OF THE UTILITIES SHOWN THEREOF IS NOT GUARANTEED. THE CONTRACTOR IS	WAS DEVELOPED.
	ENGINEER:	CENTURY ENGINEERING, LLC. 550 BAY ROAD DOVER, DE 19901	EMPLOYING AN UNDERGROUND UTILITY LOCATOR TO LOCATE AND MARK EXISTING UTILITIES WITHIN THE LIMIT OF DISTUBLE BEGINNING CONSTRUCTION.	
		ALEX SCHMIDT, P.E. (302) 734–9188	4. PORTIONS OF THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DELAWARE DEPARTMENT OF TRANSPORT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS) CURRENT EDITION, INCLUDING A TO ADVERTISEMENT OF THIS PROJECT, UNLESS NOTED OTHERWISE IN THESE PLANS OR THE SPECIFICATIONS	LL REVISIONS UP
	INTENDED USE OF SITE: WATER SUPPLIER:	PARKING LOT AND FISHING PIER N/A	OTHERWISE, THE COST FOR ALL WORK SHALL BE PAID FOR IN THE LUMP SUM PRICE BID FOR THE PROJECT INDIVIDUAL SECTION IS INCLUDED IN THE SPECIFICATION PACKET OR NOT.	T, WHETHER THE
	NUMBER OF FIRE HYDRANTS:	NONE	5. CLEARING AND GRUBBING IS ASSUMED TO EXTEND A MINIMUM OF SIX (6) INCHES BELOW EXISTING GRADE FOR AREA DEMOLITION PLAN. CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE (LOD) SHALL CONSIST OF CLE	ARING, GRUBBING,
	BUILDING USE: MAXIMUM HEIGHT OF BUILDING:	NONE N/A	REMOVING AND DISPOSING OF ALL TREES, ROOTS, VEGETATION AND DEBRIS UNLESS OTHERWISE INDICATED, EXCEPT THAT ARE DESIGNATED TO REMAIN. 6. ALL TREE REMOVAL AND TREE TRIMMING WITHIN THE LIMITS OF DISTURBANCE, REGARDLESS OF SIZE, SHALL BE IN	
	BUILDING(S) SIZE:	N/A	CONTRACT. INDIVIDUAL TREES ARE NOT SHOWN ON THE DRAWINGS BUT MUST BE REMOVED BY THE CONTRACTO WITHIN THE LIMITS OF DISTURBANCE. TREES GREATER THAN 6" IN DIAMETER SHALL BE FLAGGED BY THE CONTRACTOR	TOR FOR REVIEW FB
	PROPOSED BUILDING CONSTRUCTION; AUTOMATIC SPRINKLER PROTECTION:	N/A N/A	AND APPROVAL BY THE ENGINEER PRIOR TO REMOVAL. THE ENGINEER WILL NOT ACCEPT REMOVAL OF TREES PROTECTED.	CHECKED BY:
	FIRE LANES:	N/A NONE	7. TREES NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT AND COMPACTION THE DRIP LINE BY MEANS OF 3'-0" HIGH SENSITIVE AREA PROTECTION (SAP) FENCE, SEE DNREC DETAIL DE-ESC AREA PROTECTION.	· -· · · · · · · · · · · · · ·
	NOTES: 1. ALL FIRE LANES, FIRE HYDRANTS, AND PREVENTION REGULATIONS.) FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE	8. ANY ADDITIONAL LOCATIONS FOR STOCKPILE/STORAGE AREAS SHALL BE COORDINATED WITH THE ENGINEER AND A DNREC SEDIMENT AND STORMWATER MANAGEMENT PROGRAM PRIOR TO THE START OF WORK. ALL STOCKPILE STABILIZED DURING CONSTRUCTION, AND REDRESSED AFTER CONSTRUCTION IN ACCORDANCE WITH EROSION AND S REQUIREMENTS. COST SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE PROJECT.	AREAS SHALL BE ■
		VATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE DSFPR REGULATION 702, CHAPTER 6 & 7.	9. THE CONTRACTOR IS ADVISED THAT CONTRACTOR EMPLOYEE PARKING SHALL BE LIMITED TO THE EXISTING GRAVEL UNLESS APPROVED BY THE ENGINEER. VEHICLE PARKING SHALL NOT BE ALLOWED ON UNPAVED AREAS.	,
		DDED IN ACCORDANCE WITH THE DSFPR REGULATION 703, CHAPTER 3, SECTION 4. THIS DNNET AND 2 INCH REFLECTIVE TAPE AROUND THE BARREL UNDER THE TOP FLANGE.		NO SCAL
	FIRE HOSE CONNECTIONS SHALL BE U	ARTMENT CONNECTIONS, TO SPRINKLER SYSTEMS, STANDPIPES, YARD HYDRANTS OR ANY OTHER INIFORM TO THOSE USED BY THE FIRE DEPARTMENT IN WHOSE DISTRICT THEY ARE LOCATED.		SHEET NO.:
	(DSFRP REGULATION 703, CHAPTER 1, 5. THE STEAMER CONNECTION OF ALL FII (DSFPR REGULATION 705, CHAPTER 5,	RE HYDRANTS SHALL BE SO POSITIONED SO AS TO BE FACING THE STREET OR FIRE LANE.		C302
			7	CONTRACT NO
				CONTRACT NO.: NAT2024

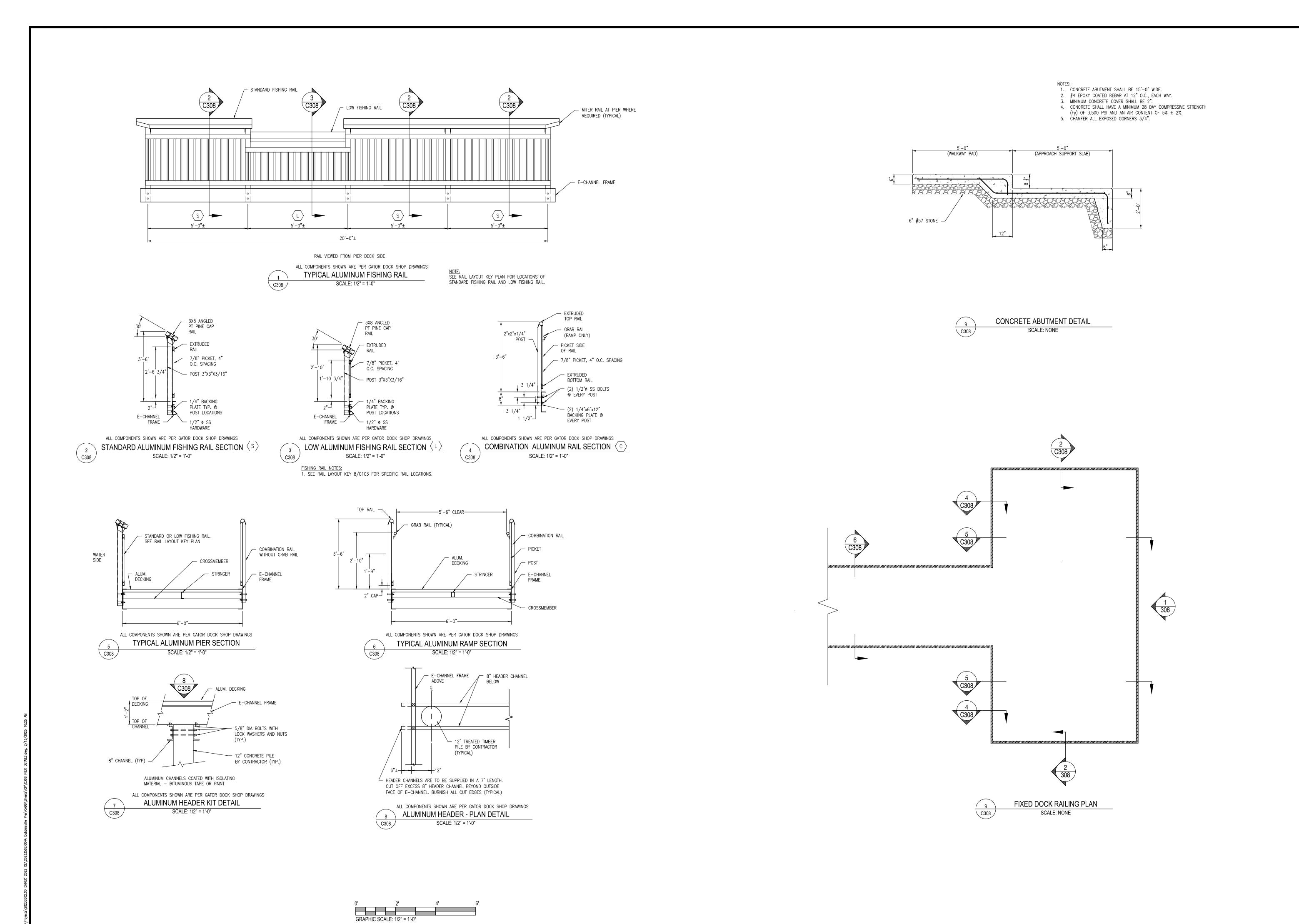












D DATE: DESCRIPTION: BY:

LE FISHING PIER AND

OT IMPROVEMENTS

PIER DETAILS

DOBBINSVILLE F PARKING LOT

SEAL:

CIVIL ENGINEER:

CENTURY
ENGINEERING
A Kleinfelder Company

PROJECT NO.: 20233502.004A



DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:

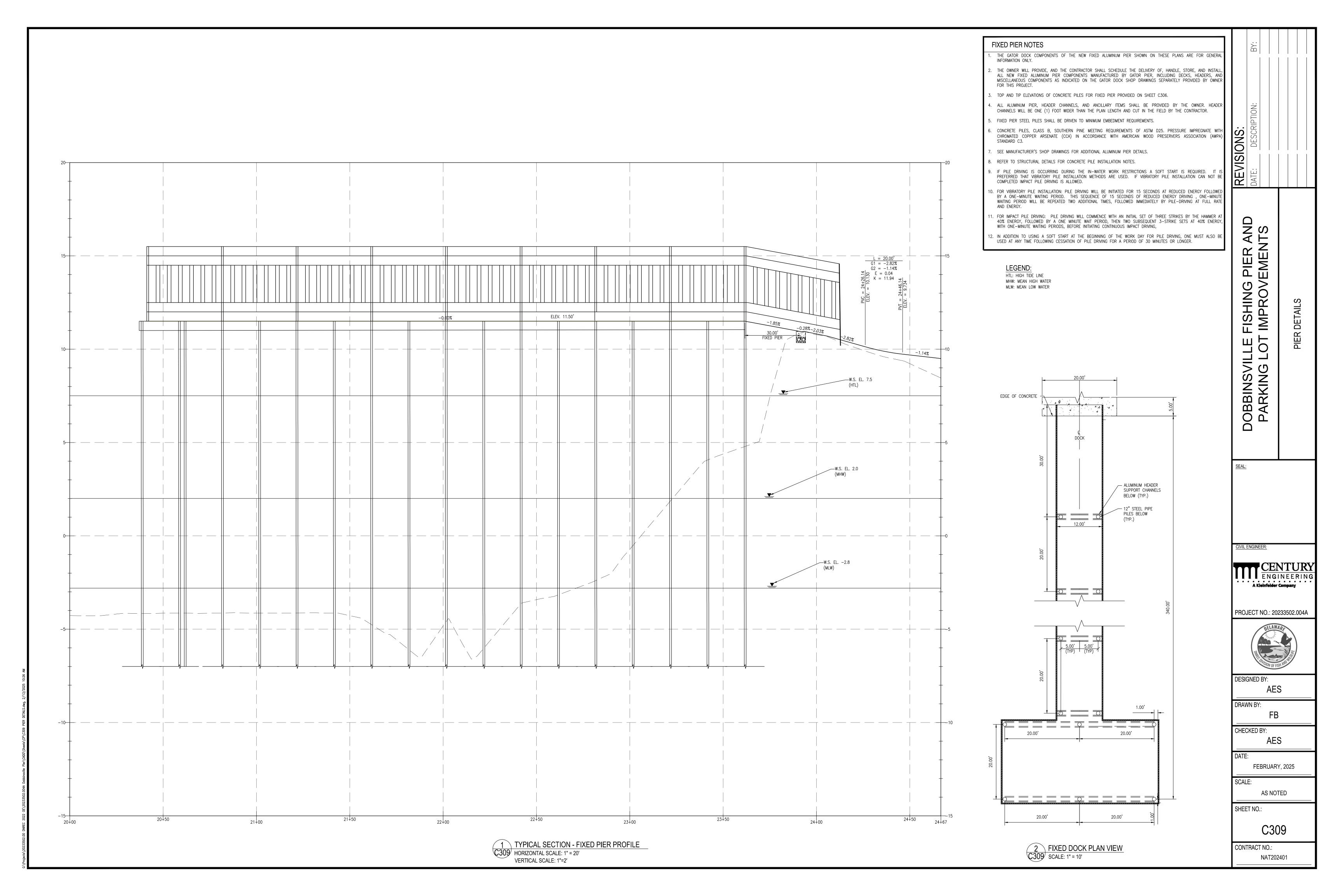
FEBRUARY, 2025

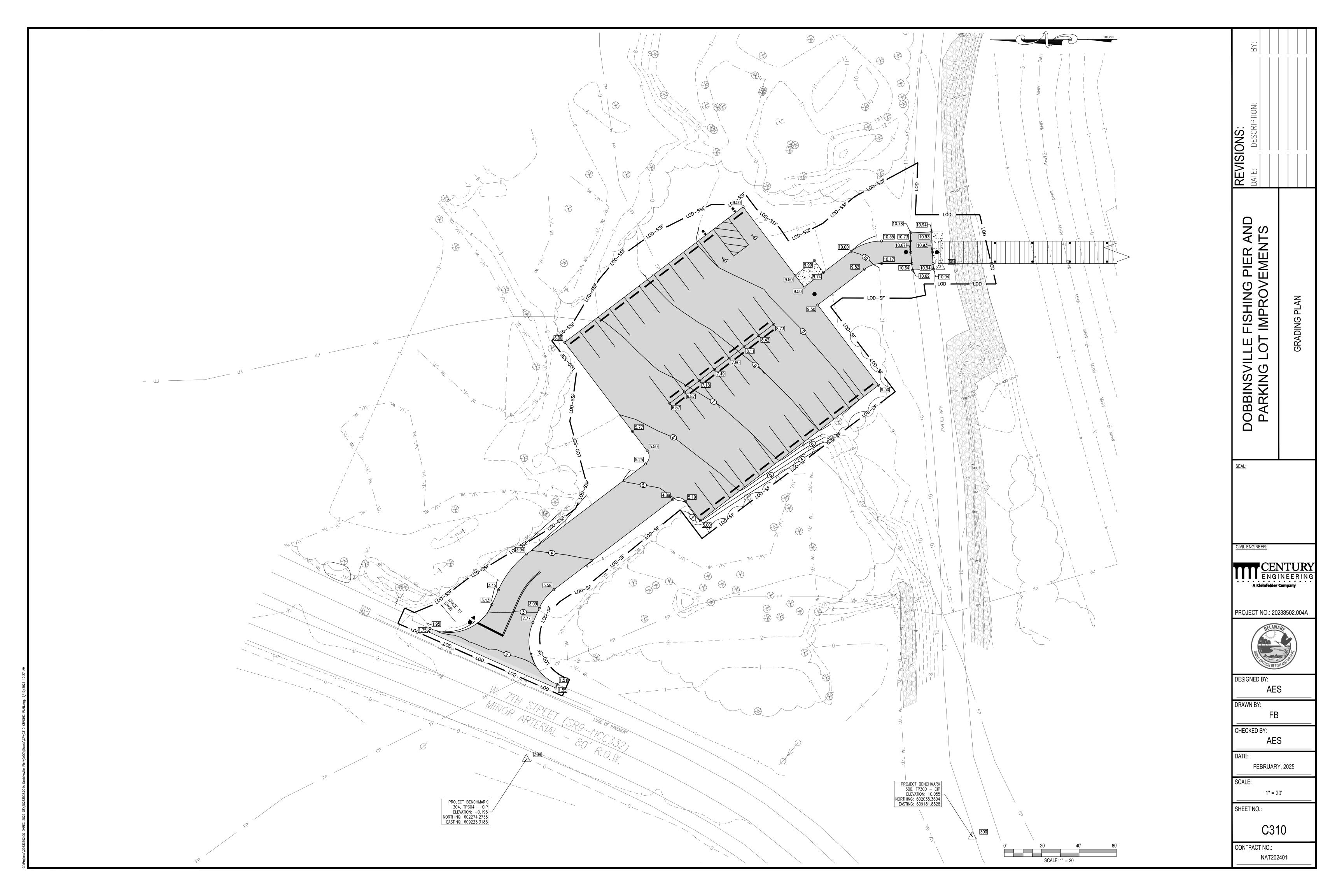
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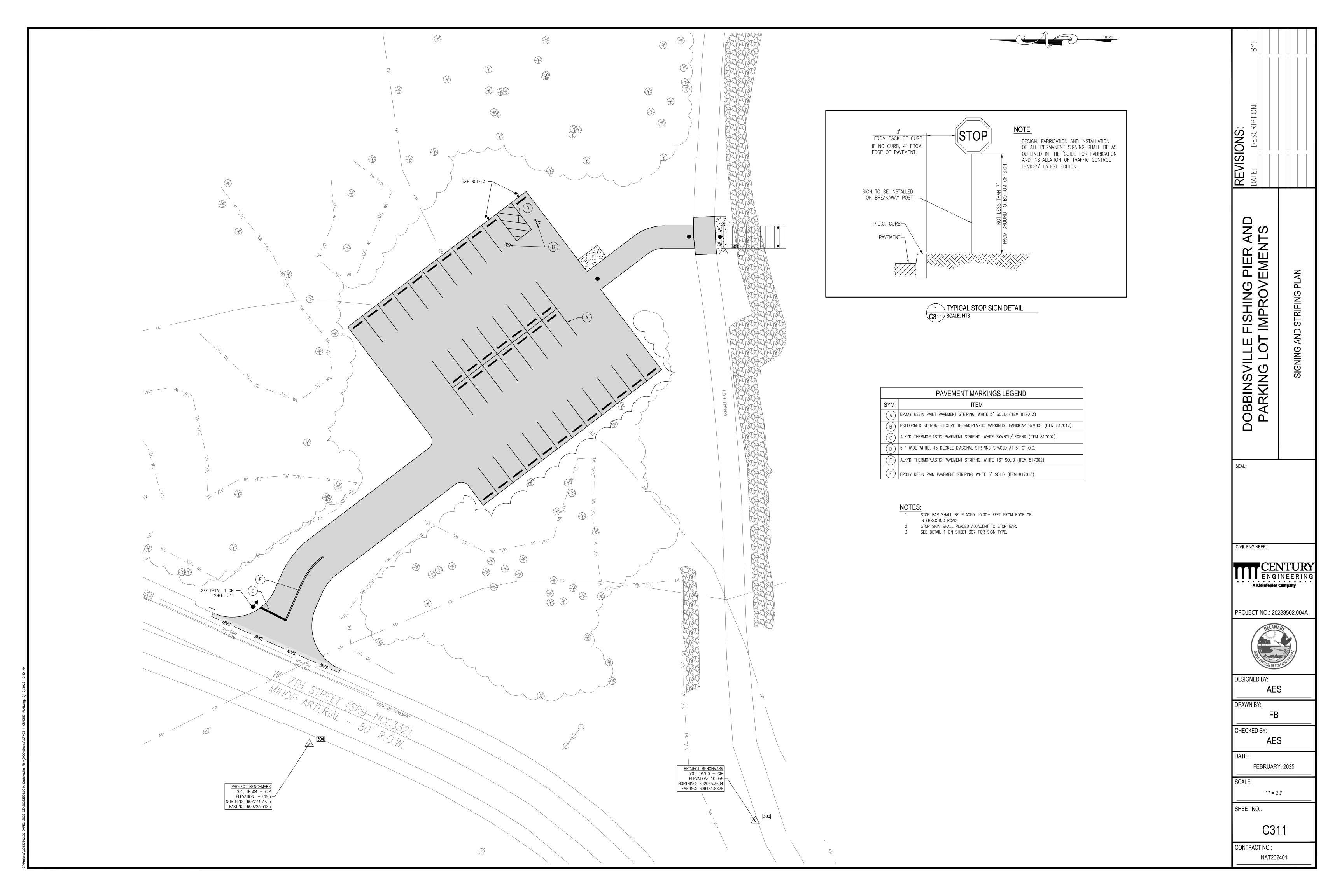
AS NOTED

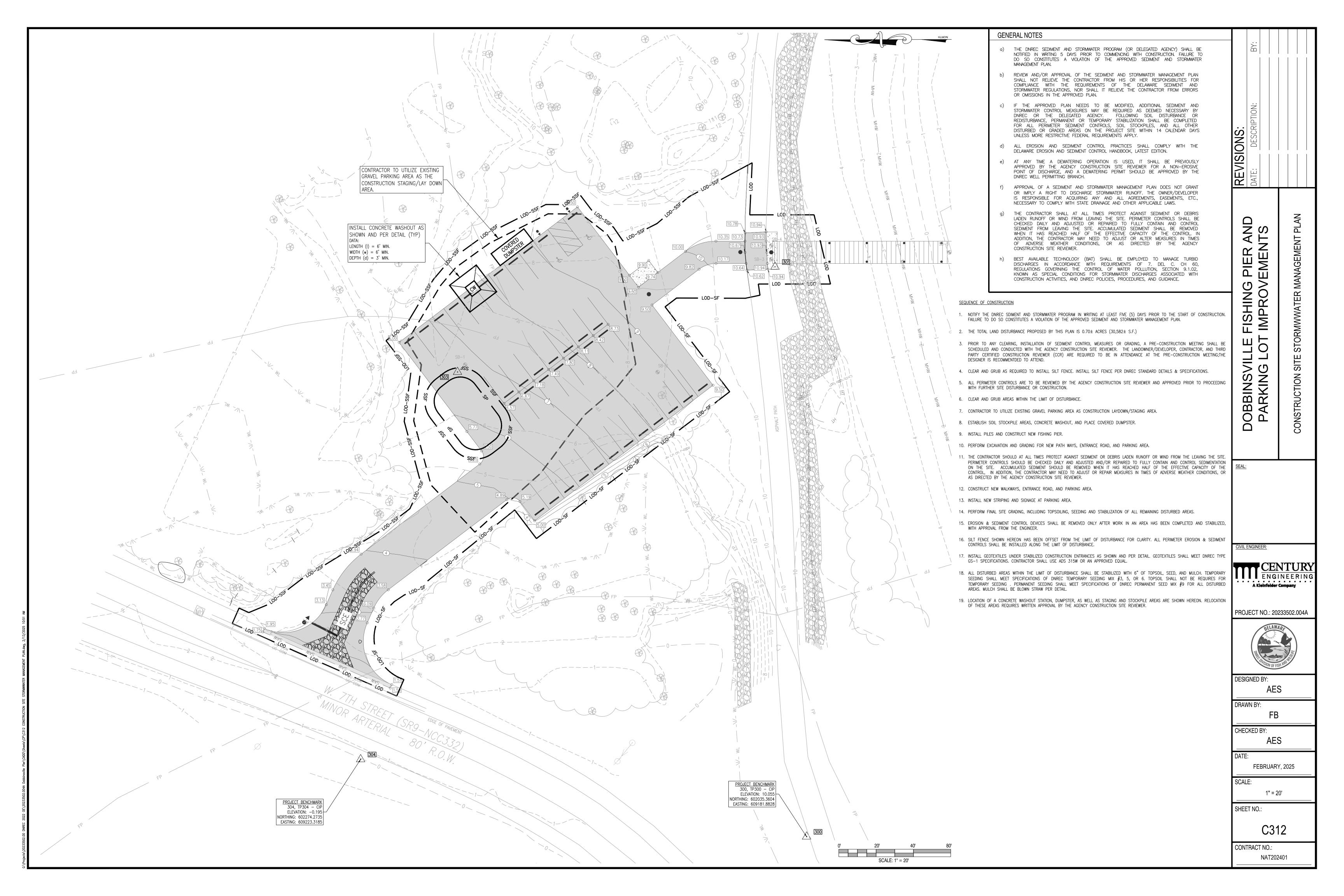
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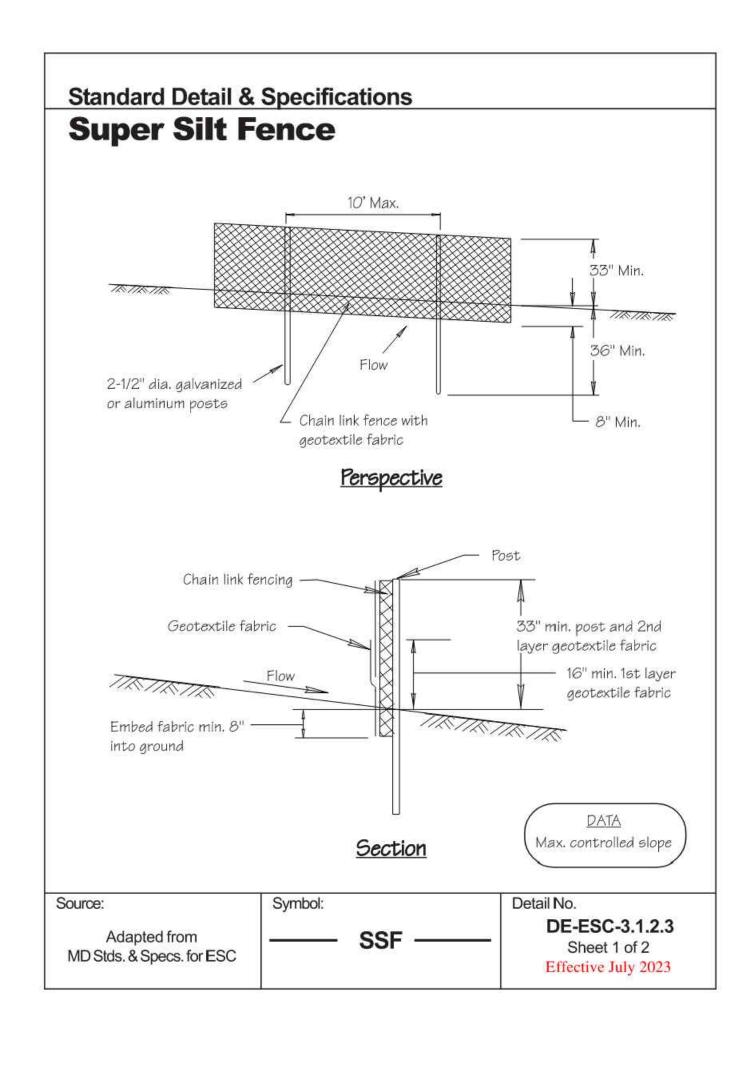
CONTRACT NO.:











Standard Detail & Specifications Super Silt Fence

Construction Notes:

- 1. The poles do not need to be set in concrete.
- 2. Chain link fence shall be fastened securely to the fence posts with wire ties or staples.
- Geotextile fabric shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- 4. Geotextile fabric shall be embedded a minimum of 8" into the ground.
- 5. When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence.

Materials:

- Fencing: Fencing shall be 42 inches in height and constructed in accordance with the latest Delaware Department of Transportation (Del-DOT) Specifications for Chain Link Fencing (Section 727). The Del-DOT specification for a 6 foot fence shall be used, substituting 42 inch fabric and 6 foot length posts.
- 2. Geosynthetic Fabric: Type GD-I

Source:	Symbol:		Detail No.
Adapted from MD Stds. & Specs. for ESC	S	SSF ——	DE-ESC-3.1.2.3 Sheet 2 of 2 Effective July 2023

Standard Detail & Specifications

Topsoiling

Construction Notes:

Site Preparation (Where Topsoil is to be added)

Note: When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, waterways and sediment basins.

- Grading Grades on the areas to be topsoiled which have been previously established shall be maintained.
- b. Liming Where the topsoil is either highly acid or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet). Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- c. Tilling After the areas to be topsoiled have been brought to grade, and immediately prior to dumping and spreading the topsoil, the subgrade shall be loosened by discing or by scarifying to a depth of a least 3 inches to permit bonding of the topsoil to the subsoil. Pack by passing a bulldozer up and down over the entire surface area of the slope to create horizontal erosion check slots to prevent topsoil from sliding down the slope.

2. Topsoil Material and Application

Note: Topsoil salvaged from the existing site may often be used but it should meet the same standards as set forth in these specifications. The depth of topsoil to be salvaged shall be no more than the depth described as a representative profile for that particular soil type as described in the soil survey published by USDA-SCS in cooperation with Delaware Agricultural Experimental Station.

Source:	Symbol:	Detail No.
	79	DE-ESC-3.4.1
USDA - NRCS		Sheet 1 of 2
		Effective July 2023

Standard Detail & Specifications

Topsoiling

Construction Notes (cont.)

a. Materials - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an agronomist or soil scientist. It shall not have a mixture of contrasting textured subsoil and contain no more than 5 percent by volume of cinders, stones, slag, coarse fragment, gravel, sticks, roots, trash or other extraneous materials larger than 1-1/2 inches in diameter. Topsoil must be free of plants or plant parts of bermudagrass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistles, or others as specified. All topsoil shall be tested by a reputable laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content of not less than 1.5 percent by weight is required. If pH value is less than 6.0 lime shall be applied and incorporated with the topsoil to adjust the pH to 6.5 or higher. Topsoil containing soluble salts greater than 500 parts per million shall not be used.

<u>Note</u>: No sod or seed shall be placed on soil which has been treated with soil sterilant or chemicals used for weed control until sufficient time has elapsed to permit dissipation of toxic materials.

b. Grading - The topsoil shall be uniformly distributed and compacted to a minimum of four (4) inches. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

<u>Note</u>:Topsoil substitutes or amendments as approved by a qualified agronomist or soil scientist, may be used in lieu of natural topsoil. Compost material used to improve the percentage of organic matter shall be provided by a certified supplier.

Compost amendments that are intended to meet specific post-construction stormwater management goals shall further meet the requirements of Appendix 3.06.2 Post Construction Stormwater Management BMP Standards and Specifications, Section 14.0 Soil Amendments.

Source:	Symbol:	Detail No.
	22	DE-ESC-3.4.1
USDA - NRCS		Sheet 2 of 2
		Effective July 2023

Standard Detail & Specifications Vegetative Stabilization

| Nix # | Species | Seeding Rate | Optimum Seeding Dates | Optimum Seeding Dat

- 1. Winter seeding requires 3 tons per acre of straw mulch for proper stabilization
- 2. May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.
- 3. Applicable on slopes 3:1 or less.4. Use varieties currently recommended for Delaware. Contact a County Extension Office for information.
- 5. Warm season grasses such as Millet may be used between 5/1 and 9/1 if desired. Seed at 3-5 lbs.
- per acre. Good on low fertility and acid areas. Seed after frost through summer at a depth of 0.5".

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Source:	Symbol:	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3
		Sheet 1 of 4
		Effective July 2023

Standard Detail & Specifications

Vegetative Stabilization

PERMANENT SEEDING AND SEEDING DATES

Seeding Mixtures

Seeding Rate¹

Optimum Seeding Dates²
O = Optimum Period
A = Acceptable Panting Period
Mix No. Certified Seed³

Coastal Plain
Piedmont
Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont

All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31 | 10/31 | 10/31-2/1 |

Mix No. Certified Seed³

Coastal Plain
Piedmont
All⁴

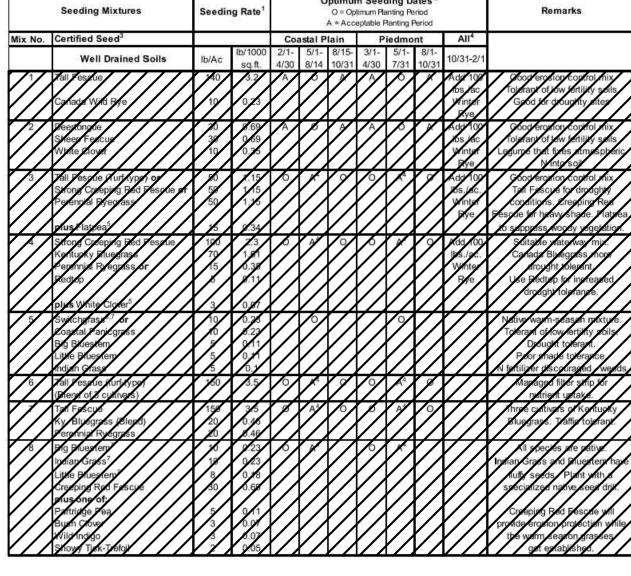
Well Drained Soils

Ib/Ac | Sq.ft. | 4/30 | 8/14 | 10/31 | 4/30 | 7/31 | 10/31 | 10/31 | 10/31-2/1 |

Mix No. Certified Seed³

No. Certified Seed³

No. Certified Seed³



NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Detail No.

DE-ESC-3.4.3
Sheet 2 of 4 Effective July 202

Symbol:

Source:

Standard Detail & Specifications

Vegetative Stabilization

	Seeding Mixtures	Seedir	ng Rate ¹			Optimur O = Opt A = Acce	imum Pla	anting Pe	riod		Remarks
Mix No.	Certified Seed ³	Seed ³ Coastal Plain Piedmont				All ⁴					
	Poorly Drained Soils	lb/Ac	lb/1000 sq.ft.	2/1- 4/30	5/1- 8/14	8/15- 10/31	3/1- 4/30	5/1- 7/31	8/1- 10/31	10/31-2/1	
9	Redtop Creeping Bentgrass Sheep Fescue Rough Bluegrass	75 35 30 45	1.72 0.8 0.69	0	A ⁴	0	0	Α ⁴	0	Add 100 lbs./ac. Winter Rye	Quick stabilization of disturbed sites and waterway
	Residential Lawys Juli Fescale Polenyifal Kveyfasa	190									Might value, Jigh Maintenanc, light traffic Irrigation naces ar Vell Irrained Koils, full suit
	Tay Faccus	100			A			Aÿ			Madierate value
	Perennial Byegrass	25/	0.57		1						low maintenance, traffic tolerant
			V 4/45/	1 0	A	/0/	10/		19	///	Shade tolerapt.
	Greening Red Fescus Chewings if escus Rough Mugrass Kenjucky Bluegass	59/20/	1/5								moderate ratific tolerance, moderate ratificanaace

When hydroseeding is the chosen method of application, the total rate of seed should be increased by 25%.
 Winter seeding requires 3 tons per acre of straw mulch. Planting dates listed above are average for Delaware. These dates may require

- 3. All seed shall meet the minimum purity and minimum germination percentages recommended by the Delaware Department of Agriculture. The maximum % of weed seeds shall be in accordance with Chapter 15, Title 3 of the Delaware Code.

 4. Turf-type species may be planted throughout summer if soil moisture is adequate or seeded area can be irrigated.

 5. It is recommended that all leguminous seed be inoculated.
- 6. Warm season grass mix and Switchgrass cannot be mowed more than 4 times per year.7. Warm season grasses require a soil temperature of at least 50 degrees in order to germinate and will remain dormant until then.

Symbol

NOTE: Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.

Detail No

ı	Source.	Symbol.	Detail No.
	Delaware ESC Handbook		DE-ESC-3.4.3
			Sheet 3 of 4
			Effective July 2023

Standard Detail & Specifications Vegetative Stabilization

Construction Notes:

Site Preparation

- a. Prior to seeding, install needed erosion and sediment control practices such as diversions, grade stabilization structures, berms, dikes, grassed waterways, and sediment basins.
- Final grading and shaping is not necessary for temporary seedings.

Seedbed Preparation

It is important to prepare a good seedbed to ensure the success of establishing vegetation. The seedbed should be well prepared, loose, uniform, and free of large clods, rocks, and other objectionable material. The soil surface should not be compacted or crusted.

3. Soil Amendments

- a. Lime Apply liming materials based on the recommendations of a soil test in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply dolomitic limestone at the rate of 1 to 2 tons per acre. Apply limestone uniformly and incorporate into the top 4 to 6 inches of soil.
- b. Fertilizer Apply fertilizer based on the recommendations of a soil test in accordance with the approved nutrient management plan. If a nutrient management plan is not required, apply a formulation of 10-10-10 at the rate of 600 pounds per acre. Apply fertilizer uniformly and incorporate into the top 4 to 6 inches of soils.

4. Seeding

- a. For temporary stabilization, select a mixture from Sheet 1. For a permanent stabilization, select a mixture from Sheet 2 or Sheet 3 depending on the conditions. Alternative seed mixes may be used with prior approval from the Department or Delegated Agency.
- Apply seed uniformly with a broadcast seeder, drill, cultipacker seeder or hydroseeder. All seed will be applied at the recommended rate and planting depth.
- c. Seed that has been broadcast should be covered by raking or dragging and then <u>lightly</u> tamped into place using a roller or cultipacker. If hydroseeding is used and the seed and fertilizer is mixed, they will be mixed on site and the seeding shall be done immediately and without interruption.

5. Mulching

All mulching shall be done in accordance with detail DE-ESC-3.4.5.

Source.	Symbol.	Detail No.
Delaware ESC Handbook		DE-ESC-3.4.3
		Sheet 4 of 4
		Effective July 2023

DATE: DESCRIPTION:

DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS

AND DETAILS

SITE NOTES

CONSTRUCTION

SEA

CENTURY
ENGINEERING

PROJECT NO.: 20233502.004A



DESIGNED BY:

DRAWN BY:

FR

CHECKED BY:

AES

FEBRUARY, 2025

SCALE:

SHEET NO.:

C313

AS NOTED

Standard Detail & Specifications

Mulching

. Materials and Amounts

- a. Straw Straw shall be unrotted small grain straw applied at the rate of 1-1/2 to 2 tons per acre, or 70 to 90 pounds (two bales) per 1,000 square feet. Mulch materials shall be relatively free of weeds and shall be free of noxious weeds such as; thistles, Johnsongrass, and quackgrass. Spread mulch uniformly by hand or mechanically. For uniform distribution of hand spread mulch, divide area into approximately 1,000 square feet sections and place 70-90 pounds (two bales) of mulch in each section.
- b. Wood chips-Apply at the rate of approximately 6 tons per acre or 275 pounds per 1,000 square feet when available and when feasible. These are particularly well suited for utility and road rights-of-way. If wood chips are used, increase the application rate of nitrogen fertilizer by 20 pounds of N per acre (200 pounds of 10-10-10 or 66 pounds of 30-0-0 per acre).
- c. Hydraulically applied mulch -The following conditions apply to hydraulically applied mulch:

Definitions:

- a. Wood fiber mulch shall consist of specially prepared wood that has been processed to a uniform state, is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment, and consists of a minimum of 70% virgin or recycled wood fiber combined with 30% paper fiber and additives.
- b. Blended fiber mulch shall consist of any hydraulic mulch that contains greater than 30% paper fiber. The paper component must consist of specially prepared paper that has been processed to a uniform fibrous state and is packaged for sale as a hydraulic mulch for use with hydraulic seeding equipment.
- c. A bonded fiber matrix (BFM) consists of long strand, specially prepared wood fibers that have been processed to a uniform state held together by a water resistant bonding agent. BFMs shall contain no paper (cellulose) mulch but may contain small percentages of synthetic fibers to enhance performance.
- d. Refer to Figure 3.4.5a for conditions and limitations of use for each of the above categories of hydraulic mulch.
- ii. All components of the hydraulically applied mulches shall be pre-packaged by the manufacturer to assure material performance. Field mixing of the mulch components is acceptable, but must be done per manufacturers recommendations to ensure the proper results.
- iii. Hydraulic mulches shall be applied with a viable seed and at manufacturer's recommended rates. Increased rates may be necessary based on site conditions.
- iv. Hydraulically applied mulches and additives shall be mixed according to manufacturers
- iv. Materials within this category shall only be used when hydraulically applied mulch has been specified for use on the approved Sediment and Stormwater Plan, or supplemental approval from the plan approval agency has been obtained in writing for a specific area.

Source:	Symbol:	Detail No.
		DE-ESC-3.4.5
Delaware ESC Handbook & Filtrexx™International		Sheet 1 of 3
& Filtrexx "International		Effective July 2023

Standard Detail & Specifications Mulching

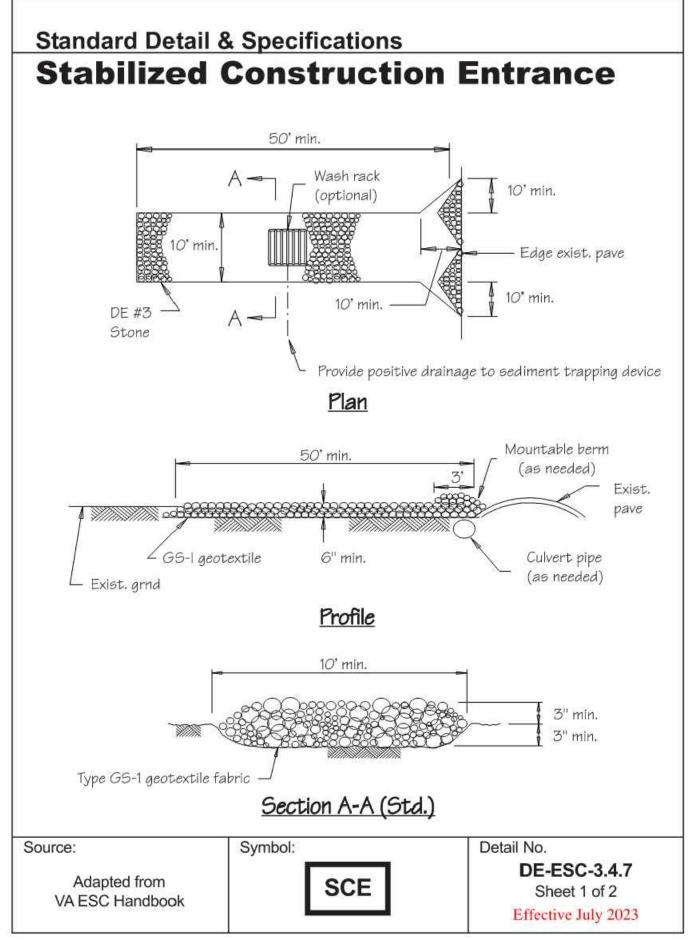
v. Application:

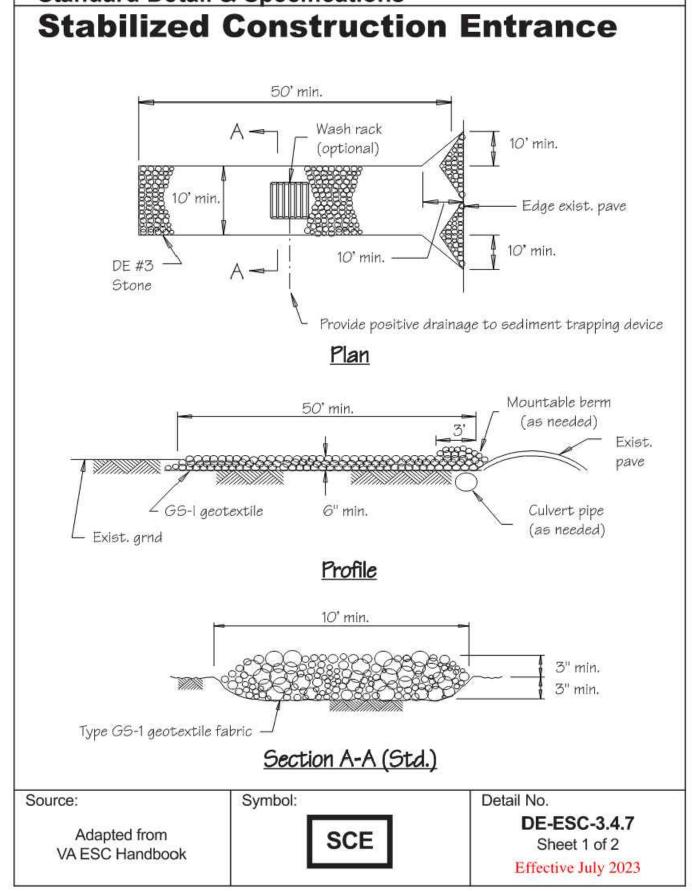
possible.

- a. Apply product to geotechnically stable slopes that have been designed and constructed to divert runoff away from the face of the slope.
- b. Do not apply to saturated soils, or if precipitation is anticipated within 24-48 hours.
- c. During the spring (March 1 to May 31) and fall (September 1 to November 30) seasons, hydraulic mulches may be applied in a one-step process where all components are mixed together in single-tank loads. It is recommended that the product be applied from opposing directions to achieve optimum soil coverage. d. During the summer (June 1 to August 31) and winter (December 1 to February 28) seasons,
- the following two-step process is required:
- Step One- Mix and apply seed and soil amendments with a small amount of mulch for
- Step Two Mix and apply mulch at manufacturers recommended rates over freshly seeded surfaces. Apply from opposing directions to achieve optimum soil
- e. Minimum curing temperature is 40°F (4°C). The best results and more rapid curing are achieved at temperatures exceeding 60°F (15°C). Curing times may be accelerated in high
- temperature, low humidity conditions on dry soils. vi. Recommended application rates are for informational purposes only. Conformance with this standard and specification shall be performance-based and requires 100% soil coverage. Any
- areas with bare soil showing shall be top dressed until full coverage is achieved. d. Compost blanket (CB) - Loosely applied with a pneumatic blower so that a 1" compost blanket uniformly covers the soil with 100% coverage. This application can be used with seed to promote germination by
- applying the approved seed mix directly into the loosely blown compost. The compost blanket performs best on slopes less than 2:1 and requires no mulch anchoring. 2. Anchoring mulch - Mulch must be anchored immediately to minimize loss by wind or water. This may be
- done by one of the following methods, depending upon size of area, erosion hazard, and cost. a. Crimping - A crimper is a tractor drawn implement designed to punch and anchor mulch into the top two (2) inches of soil. This practice affords maximum erosion control but is limited to flatter slopes where equipment can operate safely. On sloping land, crimping should be done on the contour whenever
- . Tracking Tracking is the process of cutting mulch (usually straw) into the soil using a bulldozer or other equipment that runs on cleated tracks. Tracking is used primarily on slopes 3:1 or steeper and should
- be done up and down the slope with cleat marks running across the slope. c. Liquid mulch binders - Applications of liquid mulch binders should be heavier at edges, in valleys, and at crests of banks and other areas where the mulch will be moved by wind or water. All other areas should have a uniform application of binder. The use of synthetic binders is the preferred method of mulch
- binding and should be applied at the rates recommended by the manufacturer. d. Paper fiber - The fiber binder shall be applied at a net dry weight of 750 lbs/ac. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per
- e. Nettings Biodegradable nettings may be used to secure straw mulch. Install and secure according to the manufacturer's recommendations. Photodegradable or synthetic nettings are not acceptable.

Source:	Symbol:	Detail No.
Delaware ESC Handbook & Filtrexx™International		DE-ESC-3.4.5 Sheet 2 of 3 Effective July 2023

Standard Detail & Specifications Mulching Symbol: Detail No. Source: DE-ESC-3.4.5 Delaware ESC Handbook Sheet 3 of 3 & Filtrexx™ International Effective July 2023







Construction Site Pollution Prevention

Notes (cont.)

- d. Dispose of all trash in accordance with all applicable Delaware laws.
- e. Littering is strictly prohibited. Trash cans should be placed at all lunch spots and recycle bins should be placed near the construction trailer.
- f. If fertilizer bags can not be stored in a weather-proof location, they should be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

4. Equipment maintenance practices

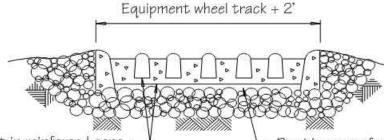
- a. If possible, equipment should be taken to off-site commercial facilities for washing and
- b. If performed on-site, wash vehicles with high-pressure water spray without detergents in an area contained by an impervious berm.
- Use drip pans for all equipment maintenance.
- Inspect equipment for leaks on a daily basis.
- e. Direct washout from concrete trucks into a temporary pit for hardening and proper disposal.
- Equip fuel nozzles with automatic shut-off valves.
- g. Dispose of all used products such as oil, antifreeze, solvents and tires in accordance with manufacturers' recommendations and local, state and federal laws and regulations.

5. Spill prevention practices

- a. Identify potential spill areas and contain them in covered areas with no connection to the
- b. Post warning signs in hazardous material storage areas.
- c. Perform preventive maintenance on all tanks, valves, pumps, pipes and other equipment as necessary.
- d. Prioritize low or non-toxic substances for use.

Source:	Symbol:	Detail No.
Adapted from USEPA		DE-ESC-3.6.1
Pub. 840-B-92-002		Sheet 3 of 4
		Effective July 2023

Standard Detail & Specifications **Stabilized Construction Entrance**



Metal bars set in reinforced conc. Provide space for drainage (traffic bearing grates, timber mats or other approved equiv. may be substituted)

Section A-A (Opt.)

Construction Notes:

- 1. Stone size Use DE #3 stone.
- 2. Length As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- 3. Thickness Not less than size (6) inches.
- 4. Width Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- 5. Geotextile Type GS-I; placed over the entire area prior to placing of stone.
- 6. Surface Water All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 7. Maintenance The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- 8. Washing Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rightsof-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- 9. Inspection Periodic inspection and needed maintenance shall be provided after each rain.

Source:
Adapted from
VA ESC Handbook

SCE

DE-ESC-3.4.7 Sheet 2 of 2

Effective July 2023

Standard Detail & Specifications

Notes:

The Construction Site Pollution Prevention Plan includes the following elements:

Construction Site Pollution Prevention

1. Material Inventory

- Document the storage and use of the following materials: a. Concrete
- b. Detergents
- c. Paints (enamel and latex)
- d. Cleaning solvents
- e. Pesticides f. Wood scraps
- g. Fertilizers
- h. Petroleum based products

2. Good housekeeping practices

- Store only enough product required to do the job.
- b. Store all materials in a neat, orderly manner in their original labeled containers and covered.
- Do not mix different substances.
- d. When possible, use all of a product prior to disposal of the container.
- e. Manufacturers' instructions for disposal should be strictly adhered to.
- Designate someone to inspect all BMPs daily.

3. Waste management practices

Source:

Adapted from USEPA

Pub. 840-B-92-002

- a. Collect and store all waste materials in securely lidded dumpsters in a location that does not drain to a waterbody.
- Salvage and/or recycle waste materials whenever possible.
- c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Symbol:	Detail No.	Source:	Symbol:	Detail No.
	DE-ESC-3.6.1 Sheet 2 of 4 Effective July 2023	Adapted from USEPA Pub. 840-B-92-002		DE-ESC-3.6.1 Sheet 3 of 4 Effective July 2023

REVISIONS DATF:

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DESIGNED BY: AES

DRAWN BY:

FB CHECKED BY:

AES

DATE: FEBRUARY, 2025

AS NOTED

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SCALE:

SHEET NO.:

Standard Detail & Specifications **Construction Site Pollution Prevention**

Notes (cont.)

- e. Prominently post contact information for reporting spills through the DNREC 24-Hour Toll Free Number.
- 6. Education

Source:

Adapted from USEPA

Pub. 840-B-92-002

- a. Include Best Management Practices (BMPs) for construction site pollution control as part of regular progress meetings.
- b. Information regarding waste management, equipment maintenance and spill prevention should be prominently posted in the construction trailer.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number

800-662-8802

DNREC Solid & Hazardous Waste Management Section

302-739-9403

Symbol:

Detail No.

DE-ESC-3.6.1 Sheet 4 of 4 Effective July 2023

Standard Detail & Specifications **Concrete Washout** DATA TO BE PROVIDED Plan View Length, I Concrete Washout Sign Width, w Berm required on all Depth, d sides (excluding access drive location) Access drive to be paved or meet material specifications of a Stabilized Construction Entrance (DE-ESC-3.4.7) Connect to paved or gravel surface Section A-A ompacted Berm with liner keyed underneath (or see sandbaa option below) Paved or gravel access drive to polyethylene liner connect to solid surface compacted earth Compacted Berm with liner overtop with a sandbag or concrete Note: Prefabricated concrete block anchor washout option not shown. Alternate Liner Option concrete block Source: Symbol: Detail No. DE-ESC-3.6.2 Adapted from

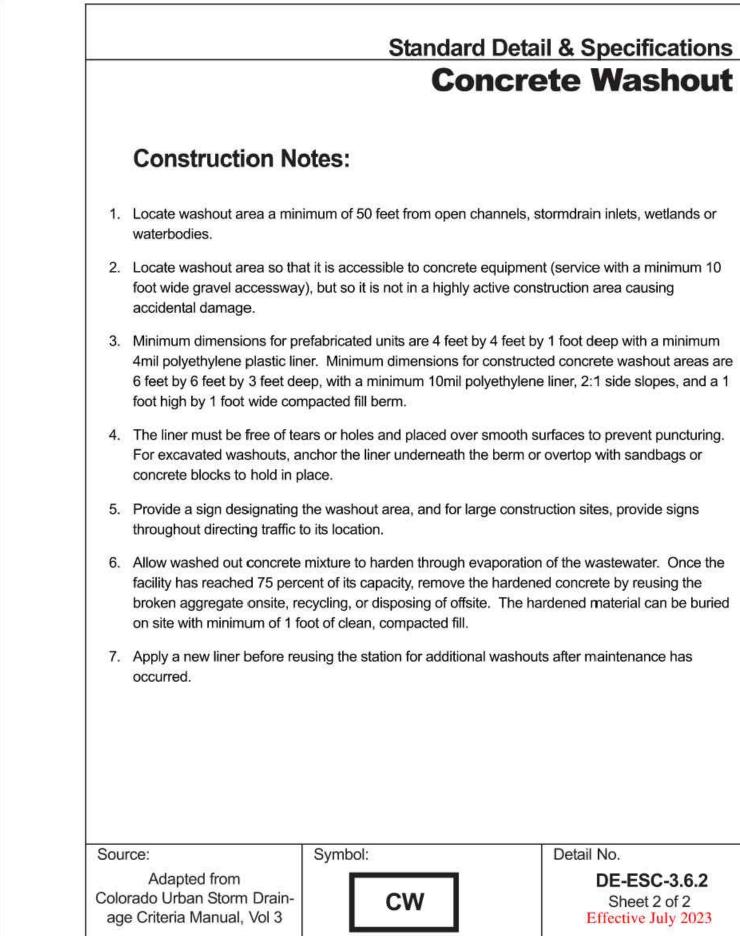
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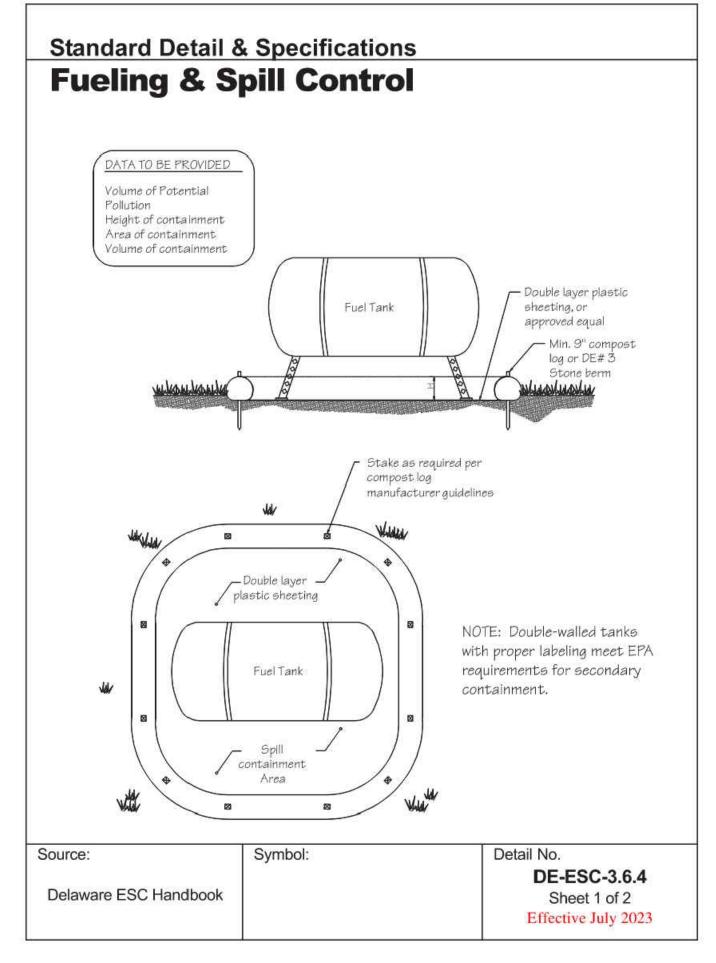
Sheet 1 of 2

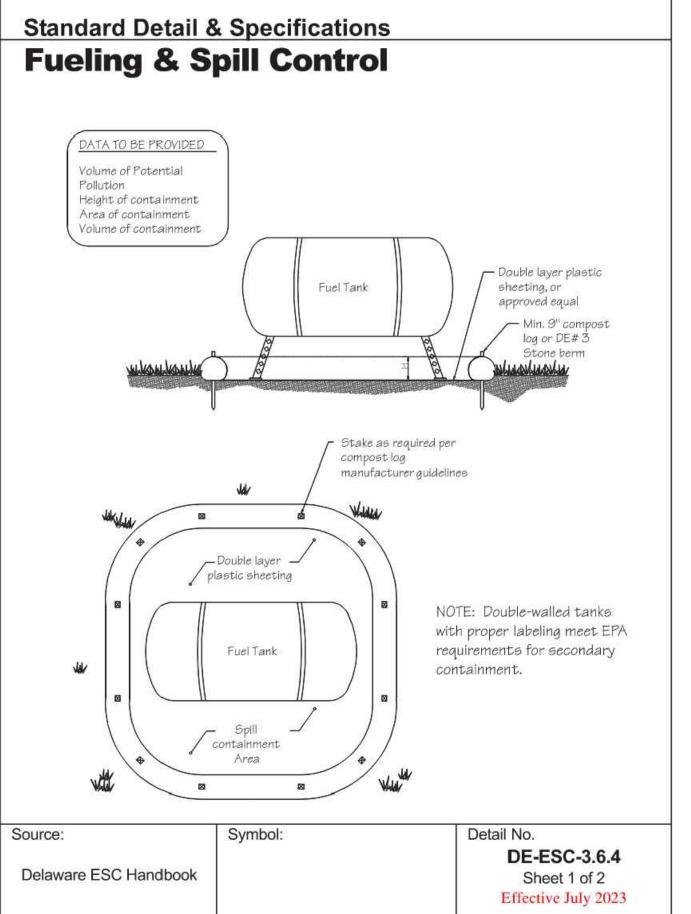
Effective July 2023

Colorado Urban Storm Drain-

age Criteria Manual, Vol 3







Standard Detail & Specifications **Fueling & Spill Control**

Pollution Prevention – Fueling & Spill Control

- 1. Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
- 2. Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
- 3. Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
- 4. Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
- 5. Place a "Fueling Area" sign next to each fueling area.
- 6. Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
- 7. Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks
- 8. Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel
- 9. If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.

10. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

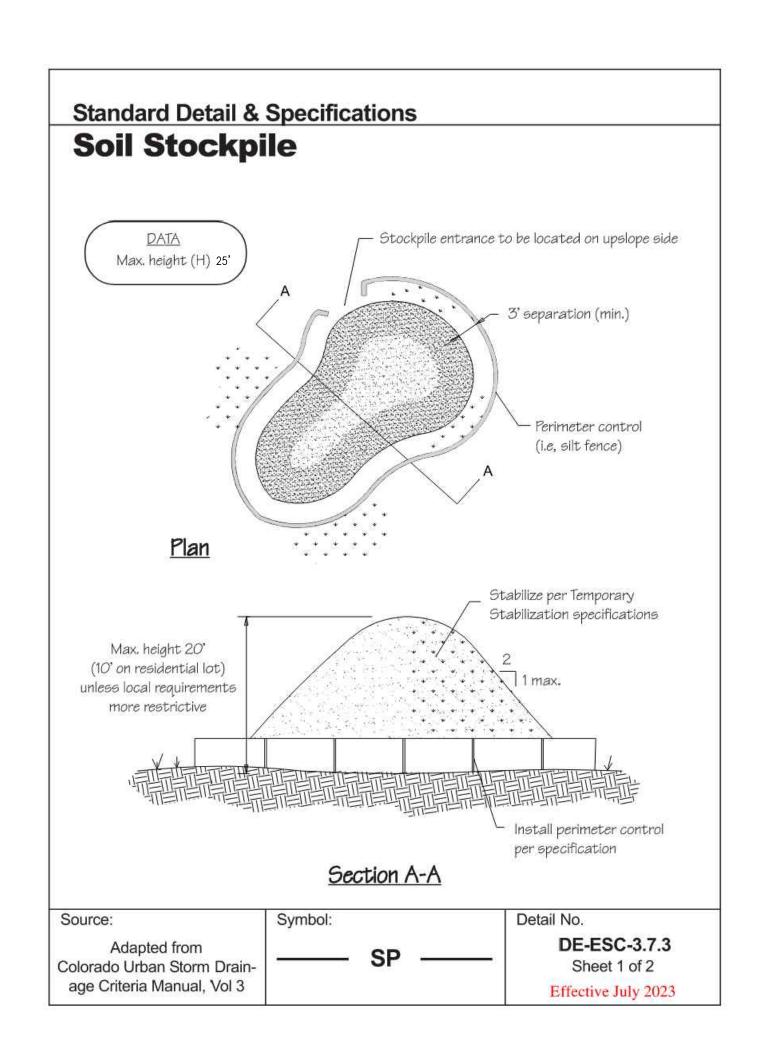
CLEAN UP SPILLS

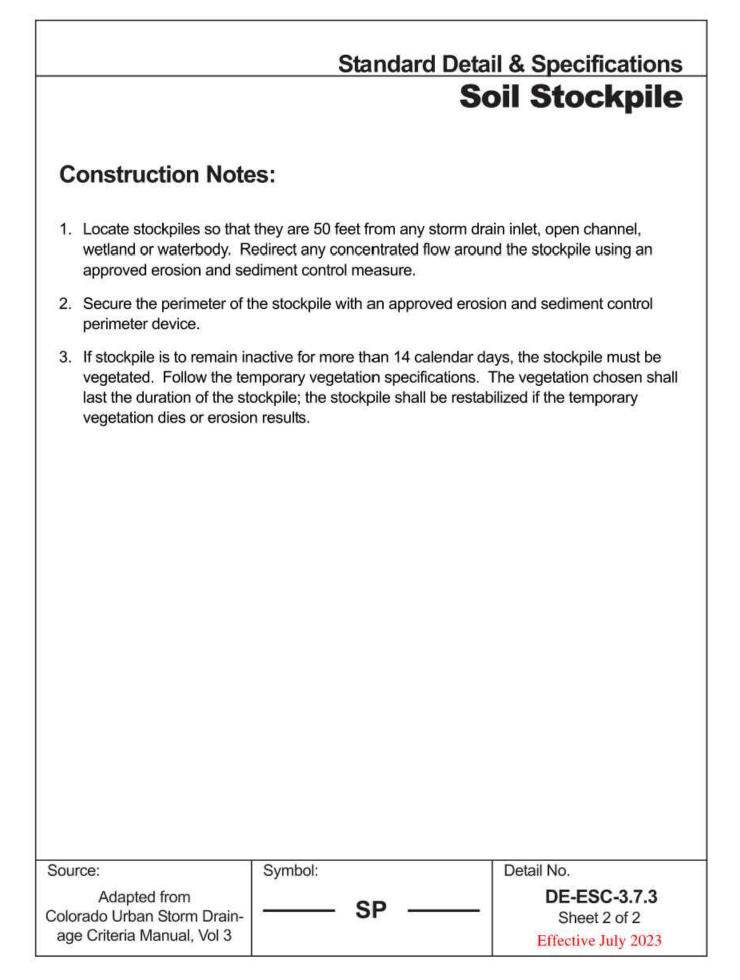
- 1. If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material
- 2. Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
- Do not bury spills or wash them down with water.

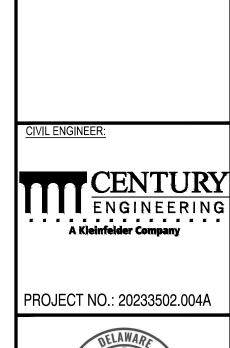
LEAKS AND DRIPS

- 1. Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
- Do not allow oil, grease, fuel or chemicals to drip onto the ground.
- 3. Have spill kits and clean up material on-site.
- 4. Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
- 5. Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
- 6. Clean up all spills and leaks. Promptly dispose of waste and spent clean up materials.

Source:	Symbol:	Detail No.
		DE-ESC-3.6.4
Delaware ESC Handbook		Sheet 2 of 2
		Effective July 2023







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DESIGNED BY:
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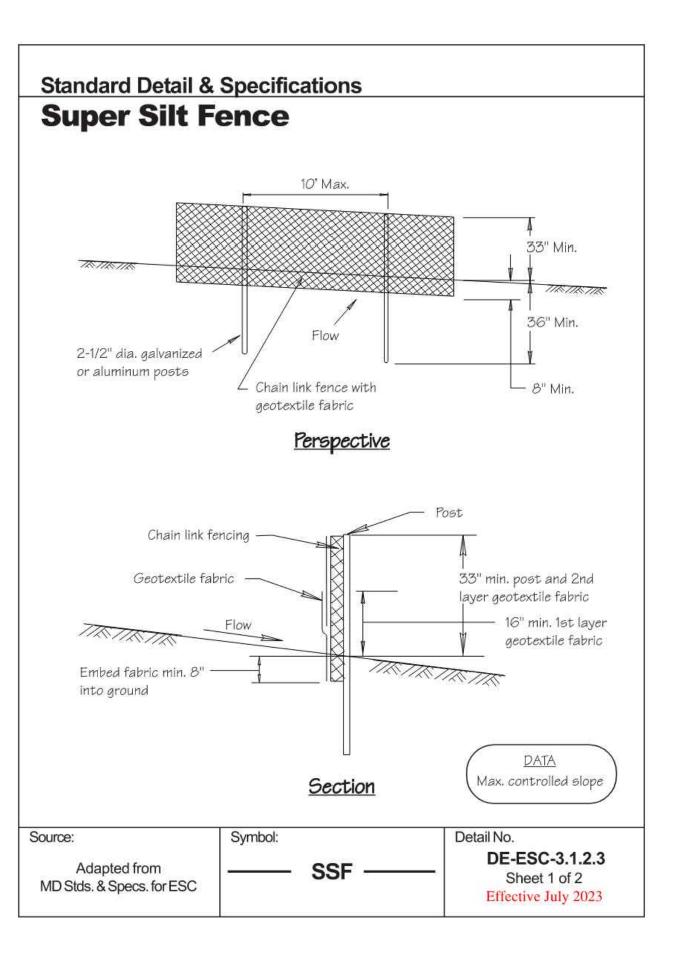
FEBRUARY, 2025

SCALE: AS NOTED

SHEET NO.:

CONTRACT NO.: NAT202401

C315



Standard Detail & Specifications Super Silt Fence

Construction Notes:

- 1. The poles do not need to be set in concrete.
- 2. Chain link fence shall be fastened securely to the fence posts with wire ties or staples.
- Geotextile fabric shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- 4. Geotextile fabric shall be embedded a minimum of 8" into the ground.
- When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence.

Materials:

- Fencing: Fencing shall be 42 inches in height and constructed in accordance with the latest Delaware Department of Transportation (Del-DOT) Specifications for Chain Link Fencing (Section 727). The Del-DOT specification for a 6 foot fence shall be used, substituting 42 inch fabric and 6 foot length posts.
- 2. Geosynthetic Fabric: Type GD-I

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	SSF	DE-ESC-3.1.2.3 Sheet 2 of 2
		Effective July 2023

REVISIONS:

DATE: DESCRIPTION: BY:

DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS

CONSTRUCTION SITE NOTES AND DETAILS

CIVIL ENGINEER:



PROJECT NO.: 20233502.004A



DESIGNED BY:

DRAWN BY:

CHECKED BY:

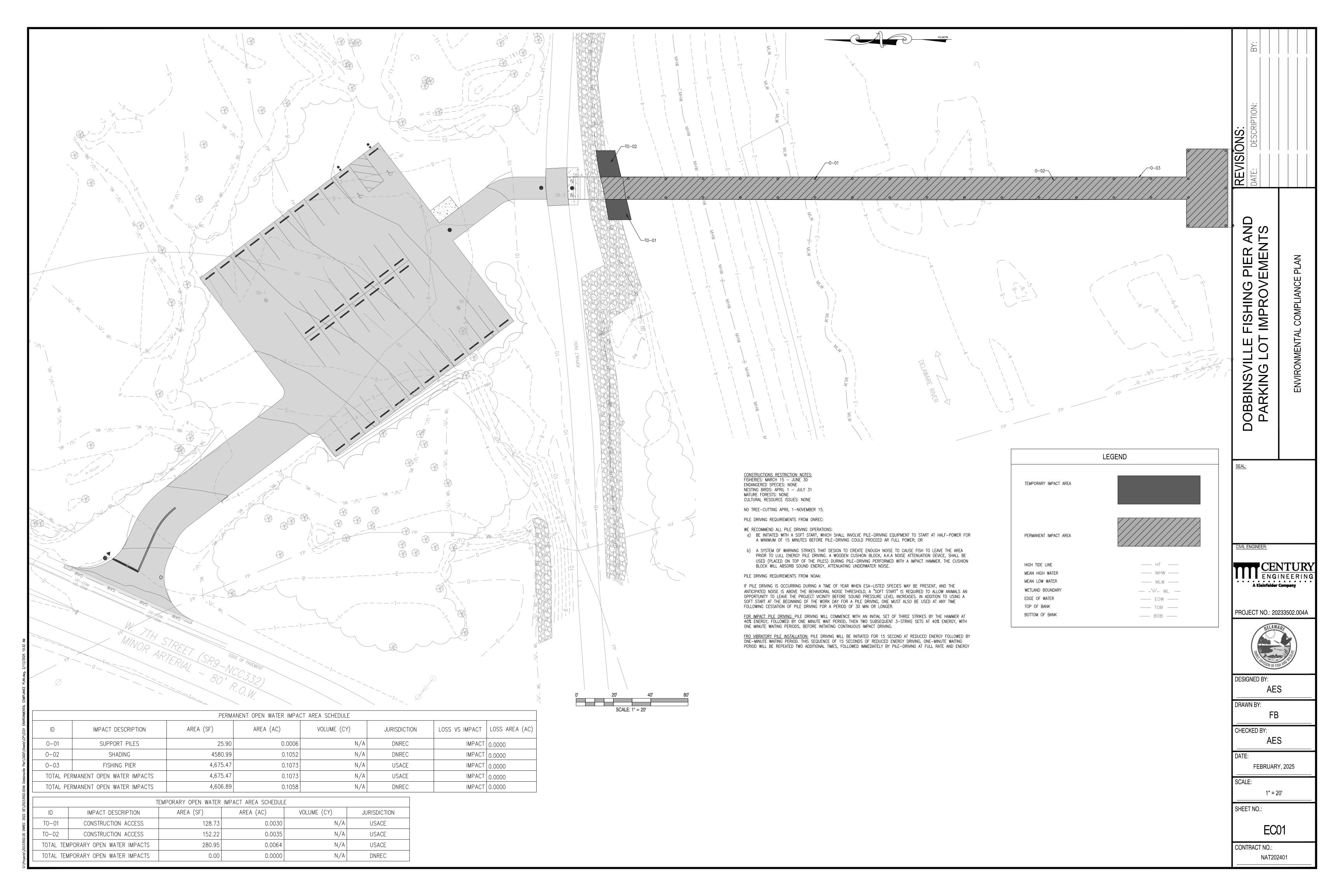
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FEBRUARY, 2025 ______ SCALE:

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LIGHTING FIXTURE, WALL MOUNTED POLE ARM MOUNTED SITE LIGHTING SINGLE FIXTURE POWER SYMBOLS DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-15R/5-20R, PER SPECIFICATION WEATHER RESISTANT GFCI DUPLEX RECEPTACLE AS ABOVE, WITH WEATHERPROOF COVER 120/240V PANELBOARD, EXTENDED FRONT LINES INDICATE RECESSED, OTHERWISE SURFACE MOUNTED. METER METER SMOKE ALARM INTERCONNECT WIRING UNDERGROUND ELECTRIC

LIGHTING SYMBOLS

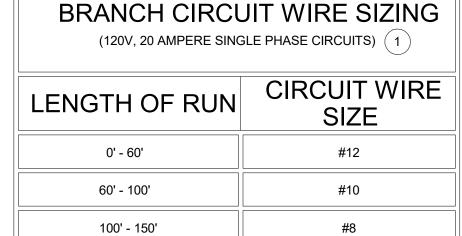
OVERHEAD ELECTRIC

ELECTRICAL ABBREVIATIONS

ELE	CTRICAL ABBREVIATIONS)	
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	LED	LIGHT EMITTING DIODE
AL	ALUMINUM	LRA	LOCKED ROTOR AMPS
ADA	AMERICAN DISABILITY ACT AMERICAN WIRE GAUGE	LV MCB	LOW VOLTAGE MAIN CIRCUIT BREAKER
AWG	AMPERE(S)	MGB	MAIN GROUND BAR
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
		MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	MISC	MISCELLANEOUS
	BATTERY	MOD	MOTOR OPERATED DAMPER
BFC BFG	BELOW FINISHED CEILING	MTD MH	MOUNTED MOUNTING HEIGHT
BPS	BELOW FINISHED GRADE BOLTED PRESSURE SWITCH	NEC	NATIONAL ELECTRICAL CODE
	BUILDING	NL	NIGHT LIGHT (UNSWITCHED)
	CABLE TELEVISION	NF	NON-FUSED
C	CONDUIT	NFSS	NON-FUSED SAFETY SWITCH
	CEILING CIRCUIT	NC NO	NORMALLY CLOSED NORMALLY OPEN
C/B	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
	CONTINUATION	NTS	NOT TO SCALE
CU	COPPER	OE	OVERHEAD ELECTRIC
CT	CURRENT TRANSFORMER	OT	OVERHEAD TELECOMMUNICATIONS
Δ	DELTA CONNECTED	PNL	PANELBOARD
DACT DC	DIGITAL ALARM COMMUNICATOR TRANSMITTER DIRECT CURRENT	~ ' ' ' '	PHASE
DISC	DISCONNECT	P PVC	POLE POLYVINYL CHLORIDE
DAS	DISTRIBUTED ANTENNA SYSTEM	PT	POTENTIAL TRANSFORMER
2P	DOUBLE POLE	PWR	POWER
	DOUBLE POLE, DOUBLE THROW	PF	POWER FACTOR
DPST		PRI	PRIMARY
DT DWG	DOUBLE THROW DRAWING	REC RL	RECEPTACLE REMOVE AND RETAIN FOR RELOCATION
	DUAL ELEMENT / TIME DELAY	RL RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	RMS	ROOT MEAN SQUARE
E	EMERGENCY	RX	REMOVE EXISTING
EC ECB	EMPTY CONDUIT ENCLOSED CIRCUIT BREAKER	SS	SAFETY DISCONNECT SWITCH
EMS	ENERGY MANAGEMENT SYSTEM	SEC SD	SECONDARY SERVICE DISCONNECT
	ELECTRIC VEHICLE	lsc	SHORT CIRCUIT CURRENT
EF	EXHAUST FAN	150	(RMS SYMMETRICAL AMPERES)
EX	EXISTING	SCCR	SHORT CIRCUIT CURRENT RATING
ER	EXISTING RELOCATED	1P	SINGLE POLE
ETR FT	EXISTING TO REMAIN FEET		SINGLE POLE, DOUBLE THROW
FA	FIRE ALARM	SPST ST	SINGLE POLE, SINGLE THROW SINGLE THROW
FAAP	FIRE ALARM ANNUNCIATOR PANEL	S/N	SOLID NEUTRAL
	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
FAEP	FIRE ALARM EXTENDER PANEL		SWITCHBOARD
4P FLA	FOUR POLE FULL LOAD AMPERES	SYM	SYMMETRICAL TELESCOLUMN AND AND AND AND AND AND AND AND AND AN
F	FUSED OR FUSIBLE	TGB	TELECOMMUNICATIONS GROUND BAR TELECOMMUNICATIONS MAIN GROUND BA
FSS	FUSED SAFETY SWITCH	TELE	TELEPHONE
FS	FUSED SWITCH	TTB	TELEPHONE TERMINAL BOARD
	GROUND	TMS	THERMAL MANUAL SWITCH
GB GEC	GROUND BAR	KCM	THOUSAND CIRCULAR MILS
GEC	GROUNDING ELECTRODE CONDUCTOR GROUND FAULT CIRCUIT INTERRUPTER	3P XFMR	THREE POLE TRANSFORMER
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HZ	HERTZ	UE	UNDERGROUND ELECTRIC
HID	HIGH INTENSITY DISCHARGE	UT	UNDERGROUND TELECOMMUNICATIONS
HPS	HIGH PRESSURE SODIUM	UL	UNDERWRITERS LABORATORY
HV HP	HIGH VOLTAGE HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	V VA	VOLTS VOLT-AMPERE
IT	INFORMATION TECHNOLOGY	WH	WATER HEATER
ITGB	INFORMATION TECHNOLOGY GROUND BAR	W	WATTS, WIRE
J/JB	JUNCTION BOX	WP	WEATHERPROOF
KV KVA	KILOVOLTS KILOVOLT-AMPERES	W/	WITH
KVA KW	KILOVOLT-AMPERES KILOWATTS	WCR Y	WITHSTAND AND CLOSE-ON RATING WYE CONNECTED
		ı	VV I L CONNECTED

GENERAL NOTES - DIVISION 26

- 1. PROVIDE LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS. OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS.
- 2. "DRAWING NOTES" APPLY TO WORK ON THAT INDIVIDUAL DRAWING. "SPECIFIC NOTES" APPLY ONLY WHERE INDICATED WITH THE "SPECIFIC NOTE" SYMBOL.
- 3. WIRE AND CONDUIT SIZES ARE BASED ON COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. VOLTAGE DROP CALCULATIONS ARE BASED ON CIRCUIT LOADING AND DISTANCES GENERALLY AS CIRCUITED ON PLAN. IF ALTERNATE CONDUIT ROUTING, CIRCUIT LOADING, OR CONDUCTOR MATERIAL IS PROVIDED, VERIFY VOLTAGE DROP, AND SUBMIT VOLTAGE DROP CALCULATIONS PER SPECIFICATION.
- 5. UNLESS OTHERWISE NOTED, CIRCUITS HAVE NOT BEEN DERATED FOR CONDUCTOR BUNDLING, NOR HAVE CONDUITS BEEN SIZED FOR MULTIPLE CIRCUITS. IF MULTIPLE CIRCUITS ARE INSTALLED IN A SINGLE RACEWAY, DERATE CONDUCTOR AMPACITY PER NEC, AND PROVIDE APPROPRIATE SIZE CONDUIT. WHERE CONDUIT SIZE INCREASES, COORDINATE WITH ADJACENT UTILITIES AND BUILDING FEATURES.
- 6. INCLUDE IN THE BID PRICE THE PAYMENT OF NECESSARY PERMITS. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE ELECTRICAL WORK MEETS THE REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
- 7. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SCHEDULING OF WORK.
- 8. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- 9. KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. PROPERLY AND LEGALLY DISPOSE OF MATERIALS.
- 10. JOB SITE SAFETY SHALL BE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 11. DRAWINGS SHALL NOT BE SCALED. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS AND THE MECHANICAL DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS. LOCATIONS OF ELECTRICAL EQUIPMENT AND CONDUIT ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN FIELD.
- 12. PROVIDE TYPED CIRCUIT DIRECTORIES FOR NEW PANELBOARDS TO INDICATE TYPE OF LOAD SERVED AND AREA SERVED (E.G. RECEPTACLES-OFFICE 201).
- 13. PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR EACH CIRCUIT UTILIZING A NEUTRAL. UNLESS SPECIFICALLY INDICATED OTHERWISE, MULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED.
- 14. IF APPLICABLE, FURNISH PANELBOARD WITH NUMBER OF POLES INDICATED. EACH SPACE SHALL BE A FULLY PREPARED SPACE (I.E. COMPLETE WITH PROVISIONS AND HARDWARE REQUIRED TO MOUNT A FUTURE CIRCUIT BREAKER, INCLUDING BUS CONNECTIONS, CIRCUIT BREAKER MOUNTING BRACKET, CIRCUIT BREAKER COVER AND COVER KNOCKOUTS, ETC.).
- 15. IF APPLICABLE, PROVIDE TRENCHING AND BACKFILL FOR BURIED ELECTRICAL AND TELECOMMUNICATIONS (TELEPHONE, CABLE TELEVISION) SERVICES, UNLESS NOTED OTHERWISE. COORDINATE UNDERGROUND CIRCUIT INSTALLATION WITH OTHER EXISTING AND PROPOSED UNDERGROUND UTILITIES. ENGAGE THE SERVICES OF A UTILITY LOCATING FIRM PRIOR TO EXCAVATION.
- 16. ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UL LISTED AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.
- 17. THE ENTIRE ELECTRICAL INSTALLATION, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION, UNLESS A LONGER WARRANTY PERIOD IS REQUIRED ELSEWHERE IN CONTRACT DOCUMENTS.
- 18. CONDUIT, FITTINGS, AND JUNCTION BOXES SHALL BE SUITABLE FOR THE AREA CLASSIFICATION IN WHICH THEY ARE TO BE INSTALLED.



OTES

1 CHART IS BASED ON 1920 WATT LOAD, 120 VOLTS WITH 3% VOLTAGE DROP. ANY DEVIATION, INCLUDING DERATING, SHALL BE FIELD CALCULATED. TOTAL MAXIMUM VOLTAGE DROP (ON FEEDER AND BRANCH CIRCUIT) SHALL BE LESS THAN 5%. WHERE A DISCREPANCY EXISTS BETWEEN THIS CHART AND WIRE SIZE ON PANEL SCHEDULE, PROVIDE THE

DRAWING LIST - ELECTRICAL

SHEET
NUMBER
SHEET NAME

E-001 SYMBOLS, NOTES & ABBREVIATIONS

E-002 OVERALL SITE PLAN

E-501 ELECTRICAL SITE DETAILS

DOBBINSVILLE FISHING PIER AND
PARKING LOT IMPROVEMENTS

DATE: DESCRIPTIONS

CIVIL ENGINEER:

CENTURY
ENGINEERING
A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400
www.centuryeng.com
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DRAWN BY:

CHECKED BY:

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NO SCALE

SHEET NO.:

E-001

PROVIDE 2" CONDUIT BACK TO PANEL P WITH PULLSTRING FOR FUTURE. 24" x 18" x 24" SOLID BOTTOM. QUAZITE PEDESTRIAN GRADE WITH SOLID COVER "ELECTRIC". REVISIONS: DOBBINSVILLE FISHING PIER AND PARKING LOT IMPROVEMENTS OVERALL SITE PLAN CIVIL ENGINEER: A Kleinfelder Company
10710 Gilroy Road
Hunt Valley, MD 21031
Phone: (443) 589-2400 www.centuryeng.com © 2021 ALL RIGHTS RESERVED DESIGNED BY: DRAWN BY: CHECKED BY: 1" = 20'-0" SHEET NO.: E-002

CONTRACT NO.:

UTILITY METER -PROPOSED UTILITY POLE EXISTING UTILITY POLE 1 OVERALL SITE PLAN N 1" = 20'-0"

GRAPHIC SCALE: 1" = 20'-0"

SPECIFIC NOTES - ELECTRICAL NEW

Branch Panel: PANEL P

Location: PARKING LOT Supply From: UTILITY METER Mounting: SURFACE Enclosure: NEMA 4X ENCLOSURE

Volts: 240/120 Single Phases: 1 Wires: 3

A.I.C. Rating: 10K

BUS OCP Type: MCB BUS Rating: 100 A MCB Rating: 100 A

18"X24" POLYMER CONCRETE

FLUSH WITH GRADE -

SOLID BOTTOM JUNCTION BOX,

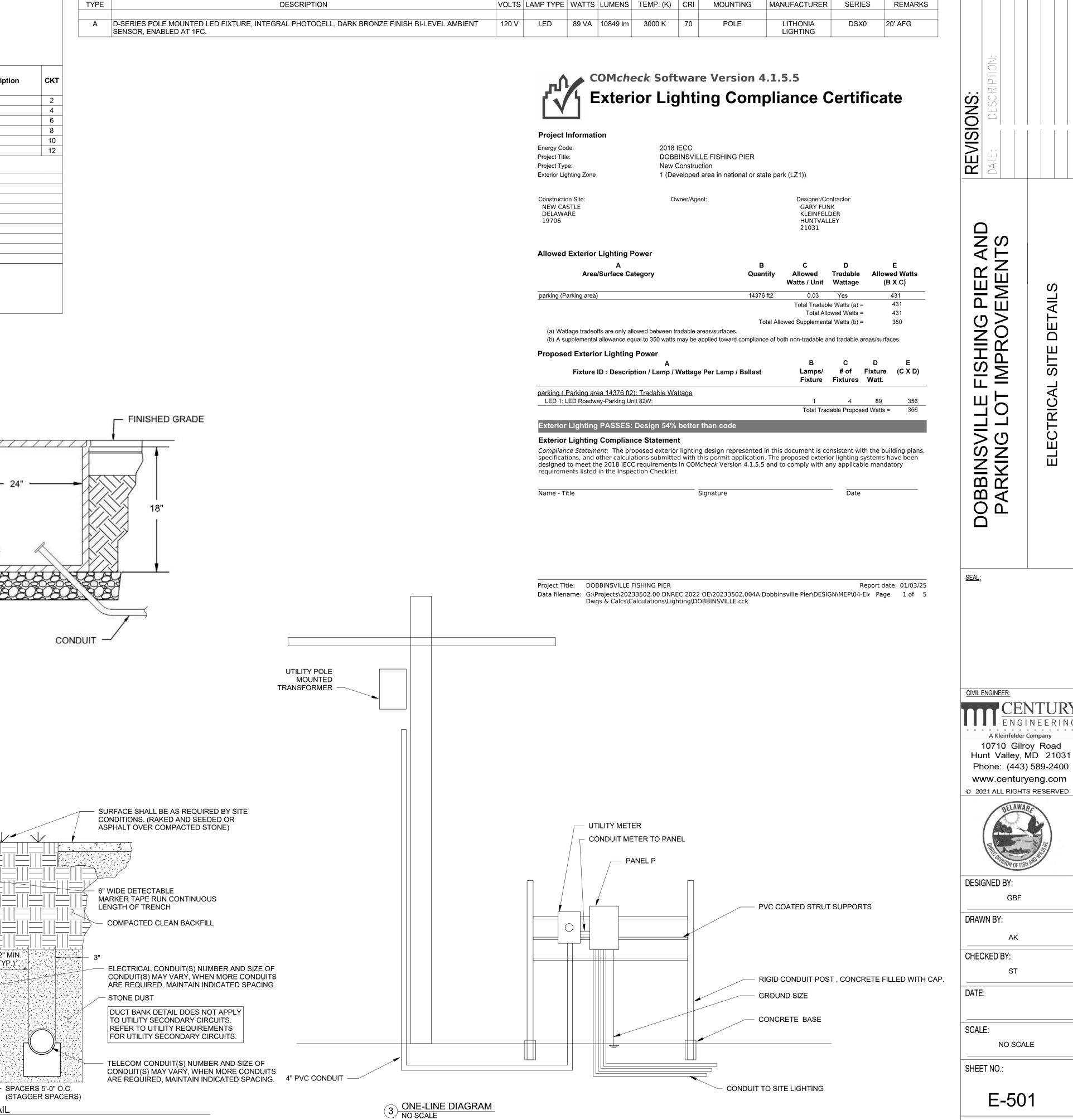
	E - LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	VOLTS	LAMP TYPE	WATTS	LUMENS	COLOR TEMP. (K)	CRI	MOUNTING	MANUFACTURER	MODEL SERIES	REMARKS
	D-SERIES POLE MOUNTED LED FIXTURE, INTEGRAL PHOTOCELL, DARK BRONZE FINISH BI-LEVEL AMBIENT SENSOR, ENABLED AT 1FC.	120 V	LED	89 VA	10849 lm	3000 K	70	POLE	LITHONIA LIGHTING	DSX0	20' AFG
				•							

			T			_							1	1		1	
СКТ	Circuit Description	Notes	Trip	Poles	Wire & Conduit Size	A	В	С	Α	В	С	Wire & Conduit Size	Poles	Trip	Notes	Circuit Description	СКТ
1 S	ITE LIGHTING		20 A	1	2#10, 1#10G, 1"C	0.4 kVA			0.0 kVA				1	20 A		SPARE	2
3 SI	PARE		20 A	1			0.0 kVA			0.0 kVA			1	20 A		SPARE	4
5 SI	PACE			1									1			SPACE	6
7 SI	PACE			1									1			SPACE	8
9 SI	PACE			1									1			SPACE	10
11 SI	PACE			1									1			SPACE	12
		I			Total Load:	0.4	kVA	0.0	kVA	0.0 I	kVA					1	
					Total Assura	2	۸	^	۸	^	۸	1					1

Load Classification	Connected Load	Demand Factor	Demand	Panel	Totals
Lighting - General	356 VA	125.00%	445 VA		
				Total Conn. Load:	356 VA
				Total Est. Demand:	445 VA
				Total Conn. Current:	1 A
				Total Est. Demand Current:	2 A

0 A

3 A



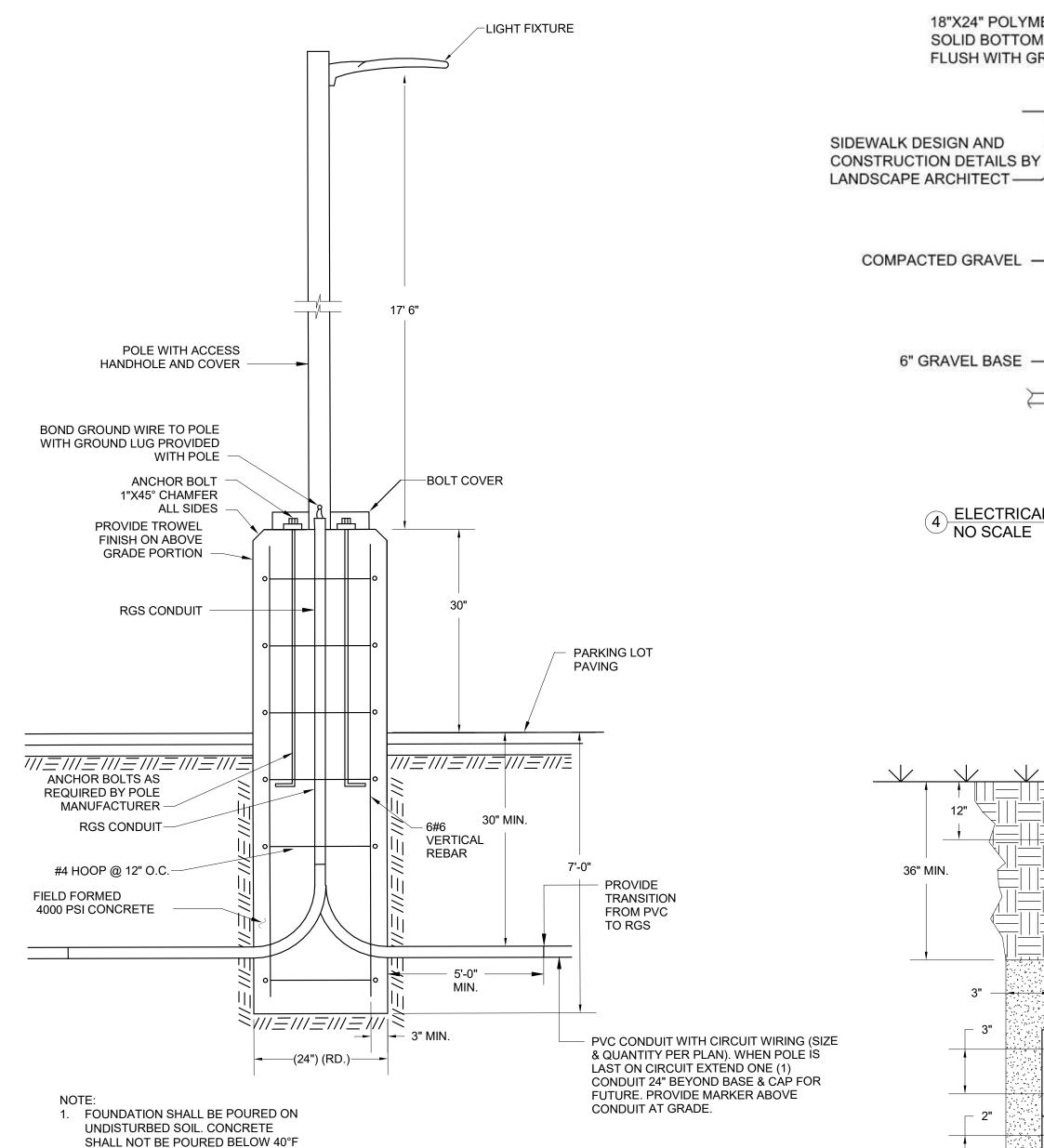
ELECTRICAL SITE DETAILS

A Kleinfelder Company

NO SCALE

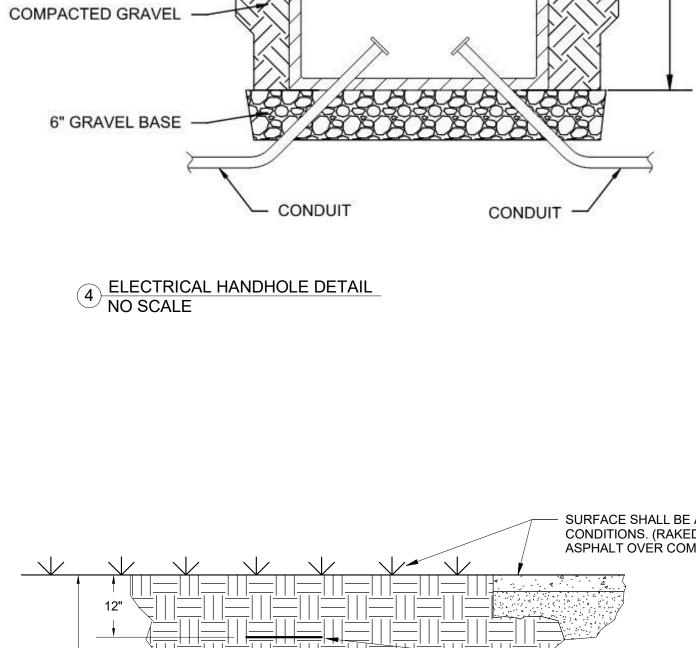
E-501

CONTRACT NO.:



ON A FALLING TEMPERATURE

1 LIGHT POLE FOUNDATION DETAIL - 30" NO SCALE



12" MIN.

(TYP.)

2 UNDERGROUND DUCT BANK DETAIL NO SCALE



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127

In Reply Refer To: 02/07/2025 15:07:06 UTC

Project code: 2024-0087719

Project Name: Dobbinsville Fishing Pier

Federal Nexus: yes

Federal Action Agency (if applicable): Delaware Department of Natural Resources and

Environmental Control

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for

'Dobbinsville Fishing Pier'

Dear Rachel Owrutsky:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on February 07, 2025, for "Dobbinsville Fishing Pier" (here forward, Project). This project has been assigned Project Code 2024-0087719 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is

required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species Listing Status Determination

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Northern Long-eared Bat Myotis septentrionalis Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

Project code: 2024-0087719

You provided to IPaC the following name and description for the subject Action.

1. Name

Dobbinsville Fishing Pier

2. Description

The following description was provided for the project 'Dobbinsville Fishing Pier':

This project involves removing existing gravel, asphalt, and wooded area on Deemer's beach in Dobbinsville located in New Castle, DE. A new fishing pier will go in its place and step out approximately 250 feet into the Delaware River.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.652749799999995,-75.58232214150134,14z



QUALIFICATION INTERVIEW

- 1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully? *Yes*
- 2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

- 4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

 No
- 5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

Yes

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

- 8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 9. Is the lead federal action agency the Natural Resources Conservation Service?
- 10. Will the proposed project involve the use of herbicide where listed species are present? *No*

11. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

No

Project code: 2024-0087719

12. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

13. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys, land-based or offshore wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No*

14. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

15. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

16. Will the proposed project activities (including upland project activities) occur within 0.125 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

(OHWM)) of the stream or tributary where listed species may be present?

No

18. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

17. Will the proposed project directly affect a streambed (below ordinary high water mark

No

19. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

20. Will the proposed project involve the removal of excess sediment or debris, dredging or instream gravel mining where listed species may be present?

No

21. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

22. Will the proposed project involve perennial stream loss, in a stream of tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

- 23. Will the proposed project involve blasting where listed species may be present? *No*
- 24. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

Yes

25. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream. *No*

26. Will the proposed project impact streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

27. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

28. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

29. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

30. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

31. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

32. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

33. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

34. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

35. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

36. Do you have any other documents that you want to include with this submission? *No*

PROJECT QUESTIONNAIRE

- 1. Approximately how many acres of trees would the proposed project remove? *0.1*
- 2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?
 0.73
- 3. Briefly describe the habitat within the construction/disturbance limits of the project site. *Gravel parking lot at Deemers Beach is surrounded by some PFO wetlands and various vegetation. Dominant trees include red maple, sweet gum, black locust, and black cherry. The LOD intersects the Delaware River just slightly over the HTL.*

IPAC USER CONTACT INFORMATION

Agency: Private Entity Name: Rachel Owrutsky Address: 550 S Bay Road

City: Dover State: DE Zip: 19901

Email rowrutsky@kleinfelder.com

Phone: 3024503408

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Delaware Department of Natural Resources and Environmental Control

Name: Mike Yost



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127

In Reply Refer To: 02/07/2025 15:15:33 UTC

Project code: 2024-0087719

Project Name: Dobbinsville Fishing Pier

Federal Nexus: yes

Federal Action Agency (if applicable): Delaware Department of Natural Resources and

Environmental Control

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for

'Dobbinsville Fishing Pier'

Dear Rachel Owrutsky:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on February 07, 2025, for 'Dobbinsville Fishing Pier' (here forward, Project). This project has been assigned Project Code 2024-0087719 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements may not be complete.**

Ensuring Accurate Determinations When Using IPaC

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (DKey), invalidates this letter. Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid. Note that conservation measures for northern long-eared bat and tricolored bat may differ. If both bat species are present in the action area and the key suggests more conservative measures for one of the species for your Project, the Project may need to apply the most conservative measures in order to avoid adverse effects. If unsure which conservation measures should be applied, please contact the appropriate Ecological Services Field Office.

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based on your IPaC submission and a standing analysis completed by the Service, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (Myotis septentrionalis)	Endangered	NLAA
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed	NLAA
	Endangered	

Federal agencies must consult with U.S. Fish and Wildlife Service under section 7(a)(2) of the Endangered Species Act (ESA) when an action *may affect* a listed species. Tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can *confer* under the authority of section 7(a) (4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if and when the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a NE or NLAA determination from the key to confirm that the determination is still accurate.

Unless the Service advises you within 15 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that consultation on the Action is <u>complete</u> for northern long-eared bat and/or tricolored bat and no further action is necessary unless either of the following occurs:

- new information reveals effects of the action that may affect the northern long-eared bat or tricolored bat in a manner or to an extent not previously considered; or,
- the identified action is subsequently modified in a manner that causes an effect to the northern long-eared bat or tricolored bat that was not considered when completing the determination key.

15-Day Review Period

As indicated above, the Service will notify you within 15 calendar days if we determine that this proposed Action does not meet the criteria for a "may affect, not likely to adversely affect" (NLAA) determination for the northern long-eared bat and/or tricolored bat. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the identified Ecological Services Field Office to apply local knowledge to evaluation of the Action, as we may identify a small subset of actions having impacts that we did not anticipate when developing the key. In such cases, the identified Ecological Services Field Office may request additional information to verify the effects determination reached through the Northern Long-eared Bat and Tricolored Bat DKey.

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

Monarch Butterfly Danaus plexippus Proposed Threatened

You may coordinate with our Office to determine whether the Action may affect the species and/ or critical habitat listed above. Note that reinitiation of consultation would be necessary if a new species is listed or critical habitat designated that may be affected by the identified action before it is complete.

If you have any questions regarding this letter or need further assistance, please contact the Chesapeake Bay Ecological Services Field Office and reference Project Code 2024-0087719 associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Dobbinsville Fishing Pier

2. Description

The following description was provided for the project 'Dobbinsville Fishing Pier':

This project involves removing existing gravel, asphalt, and wooded area on Deemer's beach in Dobbinsville located in New Castle, DE. A new fishing pier will go in its place and step out approximately 250 feet into the Delaware River.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.652749799999995,-75.58232214150134,14z



02/07/2025 15:15:33 UTC

DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed bats or any other listed species?

Note: Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

Automatically answered

No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of wind turbines.

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

5. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

Yes

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

- 9. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

No

12. Will the action cause effects to a bridge?

Note: Covered bridges should be considered as bridges in this question.

No

13. Will the action result in effects to a culvert or tunnel at any time of year?

No

14. Are trees present within 1000 feet of the action area?

Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

Yes

15. Does the action include the intentional exclusion of bats from a building or structure?

Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

No

- 16. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) known or suspected to contain roosting bats?
 No
- 17. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic permanently or temporarily on one or more existing roads?

Note: For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

Nο

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

No

22. Will the action include drilling or blasting?

No

- 23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)? *No*
- 24. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

 No.
- 25. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

No

26. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

No

27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

28. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

29. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property. *No*

30. Does the project intersect with the 0-9.9% forest density category?

Automatically answered

Yes

31. Does the project intersect with the 10.0- 19.9% forest density category map?

Automatically answered

No

32. Does the project intersect with the 20.0- 29.9% forest density category map?

Automatically answered

No

33. Does the project intersect with the 30.0- 100% forest density category map?

Automatically answered

No

34. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 0.5 acre in total extent?

Νo

35. Will the proposed action result in the use of prescribed fire?

Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

No

36. Does the action area intersect the northern long-eared bat species list area?

Automatically answered

Yes

37. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Automatically answered

No

38. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

39. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

If unsure, answer "Yes."

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

Yes

40. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's <u>Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines</u> been conducted within the project area?

No

41. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

Yes

42. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Summer Occupancy season** for northern long-eared bats in the action area?

Note: Bat activity periods for your state can be found in Appendix L of the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey <u>Guidelines</u>.

No

43. Does the action area intersect the tricolored bat species list area?

Automatically answered

Yes

44. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

Automatically answered

45. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?

(If unsure, answer ""Yes."")

Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

Yes

46. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

Yes

47. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Spring Staging Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the <u>Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.</u>

No

48. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Fall Swarming Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the <u>Service's Range-wide Indiana Bat and</u> Northern long-eared Bat Survey Guidelines.

No

49. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat?

Note: Bat activity periods for your state can be found in Appendix L of the <u>Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.</u>

No

50. Do you have any documents that you want to include with this submission?

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.1

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Rachel Owrutsky
Address: 550 S Bay Road

City: Dover State: DE Zip: 19901

Email rowrutsky@kleinfelder.com

Phone: 3024503408

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Delaware Department of Natural Resources and Environmental Control

Name: Mike Yost

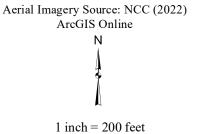




550 Bay Road Dover, DE 19901 P: 302.734.9188 AERIAL IMAGERY

DOBBINSVILLE FISHING PIER

NEW CASTLE COUNTY, DELAWARE



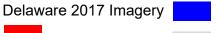
National Register-listed Properties (Basemap - USGS National Map)



May 9, 2024 Other Historic Properties

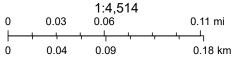
other surveyed, assigned CRS inventory #

DE_Boundaries - Municipalities



Green: Green

Blue: Blue Red: Red State Parcels



Surdex Corp, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National



DIVISION OF FISH AND WILDLIFE ENVIRONMENTAL REVIEW REQUEST FORM

State of Delaware



Department of Natural Resources and Environmental Control

N/A for State Agency I acknowledge the \$35/hr cost recovery fee DATE: PROJECT TITLE: **CONTACT INFORMATION: Consulting Company:** Applicant Name: Consultant Email: Consultant Name: Mailing Address: **PROJECT DETAILS:** Description Project Type: Consultation Needed For: **Detailed Project Description:** Location Parcel Number(s): **GPS** Coordinates of Project: Address: County: Image of LOD Enclosed? Shapefile of LOD Enclosed? **Environmental Impacts** Acres of Forest Removal: Forest: Forest Removal?

Open Water: Water Impacts?

Wetlands: Wetland Impacts?

Acres of Impacts (Temporary/Permanent):

Acres of Impacts (Temporary/Permanent):



DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

DIRECTOR'S OFFICE DIVISION OF FISH & WILDLIFE RICHARDSON & ROBBINS BUILDING 89 KINGS HIGHWAY DOVER, DELAWARE 19901

PHONE (302) 739-9910

June 7, 2024

Jeremy Ashe, DNREC F&W 89 Kings Hwy Dover, DE 19901

Re: CENTURY 2024 DNREC_DFW Dobbinsville Pier, Tax Parcels 210160002, 2101700116, 2102800001

Dear Jeremy:

Thank you for contacting the Species Conservation and Research Program (SCRP) about information on rare, threatened and endangered species, unique natural communities, and other significant natural resources as they relate to the above referenced project.

State Natural Heritage Site

A review of our database indicates that the following state-rare or federally-listed plants, animals or natural communities occur at or adjacent to the project site:

Scientific Name	Common Name	Taxon	State Rank	State Status	SGCN Tier	Federal Status
Acipenser brevirostrum	Shortnose sturgeon	Fish	3N	Е	1	Е
Acipenser oxyrinchus	Atlantic sturgeon	Fish	2	Е	1	E/T

State Rank: S1 – Extremely rare within the state (typically 5 or fewer occurrences); S2 – Very rare within the state (6 to 20 occurrences); S3 – Rare to uncommon in Delaware; S4 – Apparently secure, at fairly low risk of extinction or extirpation due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors; S5 – Demonstrably secure, at very low risk of extinction or extirpation due to a very extensive range, abundant populations or occurrences, or little to no concern from declines or threats; SX – Extirpated or presumed extirpated from the state. All historical locations and/or potential habitat have been surveyed; SH – Historically known, but not verified for an extended period (usually 15+ years); there are expectations that the species may be rediscovered; SE – Non-native in the state (introduced through human influence); not a part of the native flora or fauna; SNR – Not yet ranked in Delaware; SN – Occurrences in DE of limited conservation value, **of concern due to a restricted range; SU – Status uncertain within the state. Usually, an uncommon species which is believed to be of conservation concern, but there is inadequate data to determine the degree of rarity; B – Breeding; M – Migratory; N – Nonbreeding.

State Status: E – Endangered, i.e., designated by the Delaware Division of Fish and Wildlife as seriously threatened with extinction in the state pursuant to State of Delaware Code (7 Del. §601 et seq.) and implementing regulation (Title 7, 3900, 16.0 Endangered Species); NA – Plants are not included in Title 7; NL – Not listed.

SGCN Tiers: Tier 1 – Species of Greatest Conservation Need (SGCN) that are most in need of conservation action in order to sustain or restore their populations. They are the focus of the Delaware Wildlife Action Plan (DEWAP), which is based on analyzing threats to their populations and habitats, and on developing conservation actions to eliminate, minimize, or compensate for these threats; Tier 2 – SGCN that are also in need of conservation action, although not with the urgency of Tier 1 species. Their distribution across the landscape will help determine where DEWAP conservation actions will be implemented on the ground; Tier 3 – These species are for the most part still relatively common in Delaware, but are listed as SGCN for various reasons, including documented population declines, high responsibility of the Northeast region for the global population, or continued need for monitoring and/or management. This tier also includes non-breeding species that are uncommon in Delaware. NA – Plants are not addressed in DEWAP.

Federal Status: E – Endangered, i.e., designated by the U.S. Fish and Wildlife Service as being in danger of extinction throughout its range; T – Threatened, i.e., designated by USFWS as being likely to become endangered in the foreseeable future throughout all or a significant portion of its range; C – Candidate, i.e., taxa for which the U.S. Fish and Wildlife Service has on file enough substantial information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species. NOAA Managed Candidate: SC – Species of Concern, i.e., species about which NOAA's National Marine Fisheries Service (NMFS) has some concerns regarding status and threats, but for which insufficient information is available to indicate a need to list the species under the ESA; NL – Not listed.

While one or more state-rare or federally-listed species were identified near the project location, at present, this project does <u>not</u> lie within a State Natural Heritage Site, <u>nor</u> does it lie within a Delaware National Estuarine Research Reserve which are two criteria used to identify "Designated Critical Resource Waters" in the Army Corps of Engineers (ACOE) Nationwide Permit General Condition No. 22. A copy of this letter shall be included in any permit application or pre-construction notification submitted to the Army Corps of Engineers for activities on this property.

Mammals

Northern Long-Eared Bat

A review of our database indicates that the northern long-eared bat (*Perimyotis subflavus*) may occur on or adjacent to the project site. Due to population declines largely caused by white-nose syndrome, a fungal disease known only to affect bats, this species is under consideration to become federally-listed as endangered under the U.S. Endangered Species Act. Section 7 consultation may be necessary. To determine the potential effect your project may have on the northern long-eared bat, visit the <u>USFWS Information for Planning and Consultation</u> (iPaC) tool to obtain an official species list and to use the Range-wide Northern Long-eared Bat Determination Key (Dkey).

Tricolored Bat

A review of our database indicates that the tricolored bat (*Perimyotis subflavus*) may occur on or adjacent to the project site. Due to population declines largely caused by white-nose syndrome, a fungal disease known only to affect bats, this species is proposed to be federally-listed as endangered under the U.S. Endangered Species Act (ESA) is expected by summer 2024. In the event that the tricolored bat is listed as endangered under the ESA, Section 7 consultation may be necessary. To determine the potential effect your project may have on the tricolored bat, visit the <u>USFWS Information for Planning and Consultation</u> (iPaC) tool to obtain an official species list and use the <u>Range-wide Northern Long-eared Bat and Tricolored Bat Determination Key</u> (Dkey) when the USFWS makes it available.

Birds

Marsh Nesting Birds

Currently, there are no records of state-rare or federally-listed marsh bird species at this site. However, aerial imagery and wetland habitat maps indicate that high marsh habitat is present. Several state-rare species of conservation concern solely or frequently nest in high marsh habitat. We recommend a time of year restriction of **April 1**st to **July 31**st and staging project equipment away from this habitat type to avoid impacts to marsh nesting birds.

Fisheries

Sturgeon

This area of Delaware River is near habitat utilized by the federally-listed endangered Atlantic sturgeon (*Acipenser oxyrhincus*) and federally-listed endangered shortnose sturgeon (*Acipenser brevirostrum*). This area of Delaware River has been identified as significant juvenile Atlantic sturgeon habitat as well with numerous catches in this range of the river. These species are federally protected under the U.S. Endangered Species Act (ESA), and this area of Delaware River has been classified by the National Marine Fisheries Service as Atlantic Sturgeon Critical Habitat. If this is a project that requires a federal permit, Section 7 consultation under the ESA may be required.

The Delaware River is also utilized by striped bass (*Morone saxatilis*) and large numbers of American shad (*Alosa sapidissima*) for spawning and upstream migration during April-June. Although these two species are not listed as endangered or threatened, they are an important resource in terms of recreational and commercial fisheries.

To protect anadromous species, including spawning Atlantic sturgeon, in-water work should not take place from **March 15**th **to June 30**th.

We recommend all pile driving operations: (a) be initiated with a soft start, which shall involve pile-driving equipment to start at half-power for a minimum of 15 minutes before pile-driving could proceed at full power; or {b} a system of warning strikes that are designed to create enough noise to cause fish to leave the area prior to lull energy pile driving. A wooden cushion block, a.k.a. noise attenuation device, shall be used (placed on top of the piles) during pile-driving performed with an impact hammer. The cushion block will absorb sound energy, attenuating underwater noise.

We are continually updating our records on Delaware's rare, threatened and endangered species, unique natural communities and other significant natural resources. If the start of the project is delayed more than a year past the date of this letter, please contact us again for the latest information.

Please feel free to contact me with any questions or if you require additional information.

Sincerely,

Shawn Sullivan

Assistant Wildlife Biologist

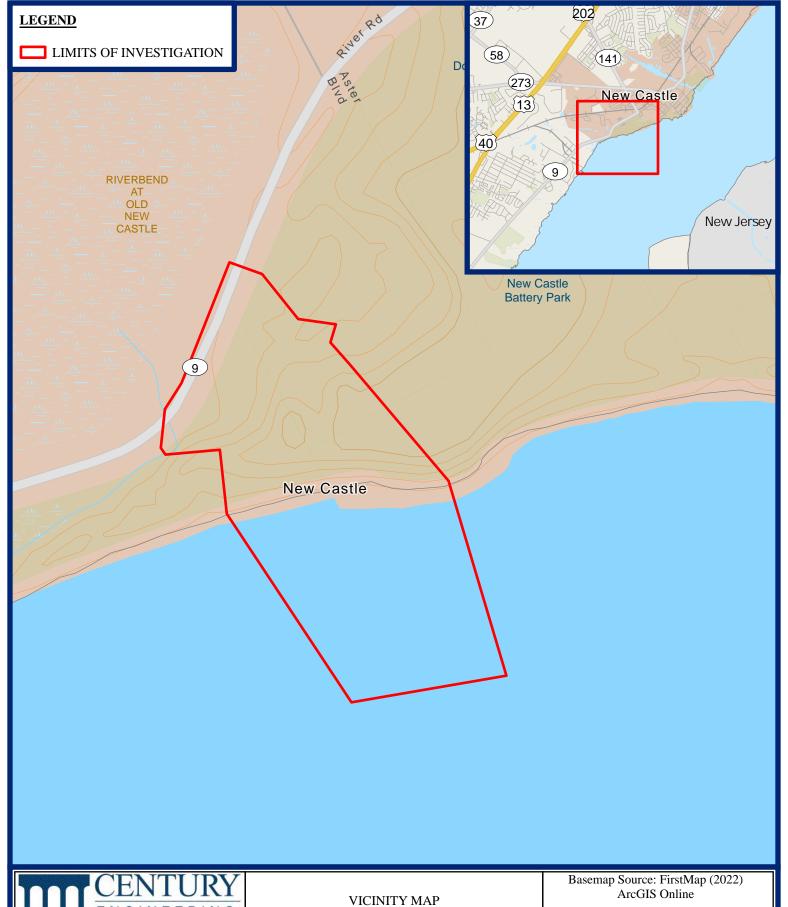
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Phone: (302) 735-3609

Email: shawn.sullivan@delaware.gov

6180 Hay Point Landing Road

Smyrna, DE 19977

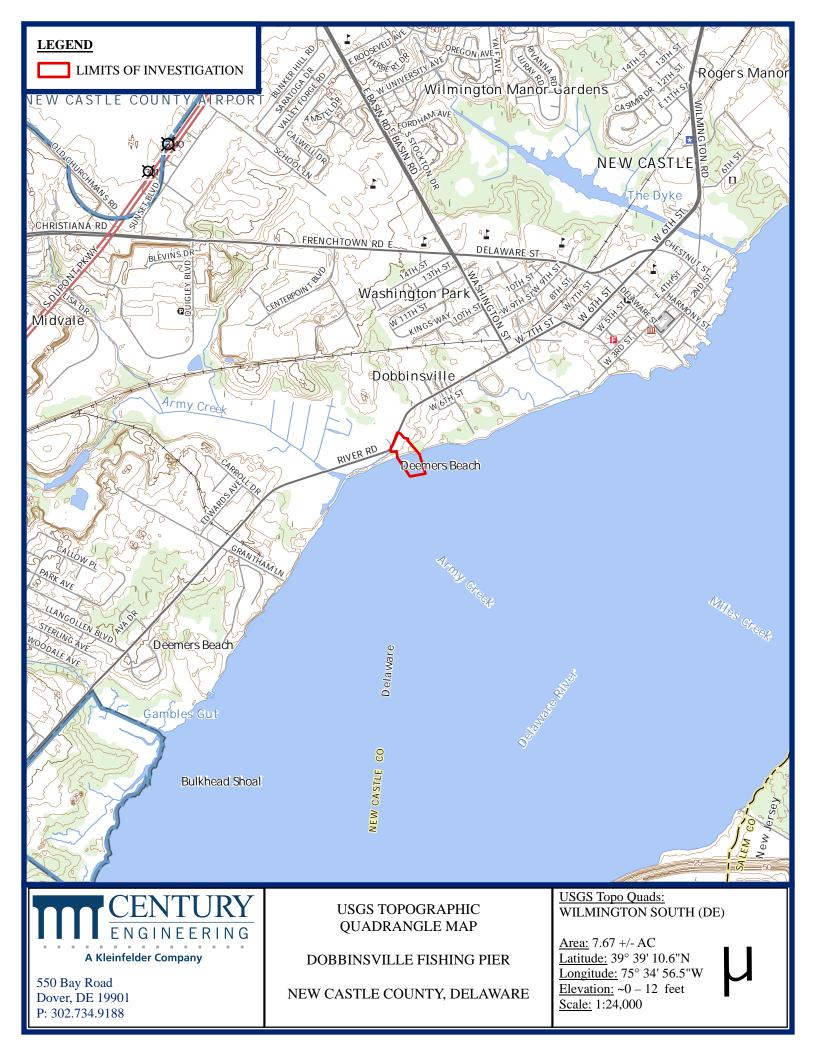




P: 302.734.9188

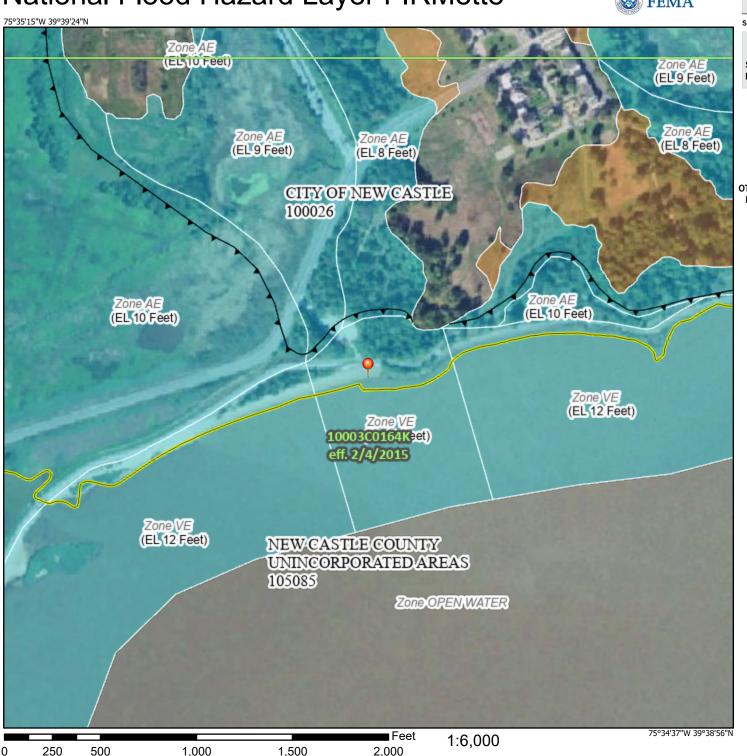
DOBBINSVILLE FISHING PIER NEW CASTLE COUNTY, DELAWARE

1 inch = 200 feet



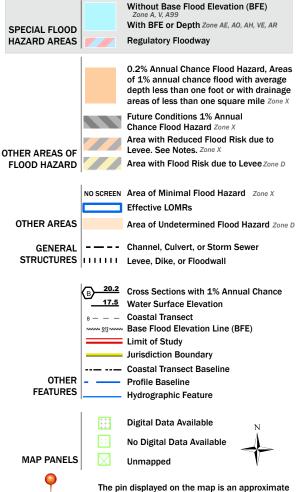
National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/16/2024 at 3:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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