

CONSTRUCTION PLANS FOR DELAWARE DIVISION OF FISH & WILDLIFE LITTLE CREEK BOAT RAMP T.P. ED-00-078.00-01-08.00

SOIL MAP

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BAYSIDE DRIVE (SR9, KCR17) LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE

	DATA COLUMN		(
	1. TAX PARCEL NUMBER:	ED-00-078.00-01-08.00	This drawing is the	property of
	2. KENT COUNTY FILE NUMBER:	S-17-05	Century Engineering and the exclusive use of	d is prepared for
	3. ADDRESS OF SITE:	BAYSIDE DRIVE DOVER, DE 19901	at the location indic	cated. No
	4. ZONING:	BG: GENERAL BUSINESS AC: AGRICULTURAL CONSERVATION	other use is authorized	a or intended.
	5. LOT AREA:	$3.125\pm$ ACRES (BASED UPON PLAN PREPARED BY MILLER LEWIS, INC., DATED JUNE 13, 2016)		.com
	6. SOURCE OF TITLE:	D.B. 7173–327		Grange
	7. EXISTING USE:	FISHING AREA		VET ML: Øcentu
	8. PROPOSED USE:	BOAT RAMP/FISHING PIER/PARKING LOT		EMA cei@
	3. TOTAL NOMBLIK OF LOIS.	PLAN)		
	10. ACTIVE RECREATION AREA:	N/A N/A		
	12. PROPOSED BUILDING SQUARE FOOTAGE:	0 SF		
	13. MONUMENTS: FXISTING' 4 (IRON ROD)			SITE: centur
	PROPOSED: 0 (MONUMENTS)			WEBS
	14. SEWER PROVIDER: 15. WATER PROVIDER:	NO SEWER PROPOSED FOR SITE		
	16. REQUIRED PARKING:			
	REQUIRED: N/A PROPOSED: 26 SPACES (INCLUDES	2 ACCESSIBLE SPACES)		HWA) 734-4
	17. SITE BREAKDOWN: EXISTING SITE <u>BG ZONIN</u>	<u>G</u> <u>AC ZONING:</u>		IT HIG (302)
	WETLAND: 48,368± OPEN SPACE: 27,017±	S.F. $45,718\pm$ S.F. S.F. $4739\pm$ S.F.		UPON 301 88 F:
	OVERALL TOTAL: 85,659±	S.F. $50,474\pm$ S.F. = 136.133+ (3.125+ ACRES)		S: 3TH D DE 199 34-91
	PROPOSED SITE <u>BG_ZONIN</u>	$\frac{AC ZONING}{C}$	All and a second se	DRES 4 NOF 7ER, D 302) 7
	CONCRETE: 722± 9 PAVEMENT: 28,708± OPFN_SPACF: 56.229±	S.F. 1,809± S.F. S.F. 7,749± S.F. S.F. 40.916± S.F.	Server and S	ADI 413 DOV P: ((
	OVERALL TOTAL: $0.120\pm$	S.F. 50,474± S.F.		
	LOT TOTAL: $85,659 \pm + 50,474 \pm =$ PROPOSED IMPERVIOUS BG ZONIN	$\begin{array}{ccc} 136,133 \pm & (3.125 \pm \text{ ACRES}) \\ \text{G} & & \text{AC} & \text{ZONING} \end{array}$	REVISIONS	<u>}</u>
	PAVEMENT: 28,708± CONCRETE: 722± 3	S.F. 7,749± S.F. S.F. 1,809± S.F.	3/20/17 REVISED PER KENT	COUNTY COMMENTS
	GANGWAY: $\frac{471\pm 3}{000000000000000000000000000000000000$	S.F. $(0.686 \pm \text{ ACRES})$ $\frac{4/4 \pm \text{ S.F.}}{10,032 \pm \text{ S.F.}}$ $(0.230 \pm \text{ ACRES})$	6/22/17 60% DFM SUBMISSIC	ON
	% IMPERVIOUS COVERAGE PROVIDED (ALLC BG ZONING: 0.686 ACRES/1.966 AG	WABLE): CRES = 34.9% (75% ALLOWABLE PER KENT COUNTY CODE 205–173)	KENT COUNTY	Y COMMENTS
	AC ZONING: 0.230 ACRES/1.159 AC	CRES = 19.8% (20% ALLOWABLE PER KENT COUNTY CODE 205–51)	12/18/17 REVISED FOR FIXED	FISHING PIER
	REQUIRED PRESERVATION PER KENT COUN WOODLAND PRESERVATION AREAS PROVIDE	ITY CODE 187-73: 0.00 ACRES (70% OF EXISTING) D: 0.00 ACRES		COUNTI COMMENTS
	TOTAL AREA WITHIN STORMWATER MANAGEN % SLOPE: AVERAGE 2.50%	MENT AREA: 0.00 ACRES		
	15. WETLANDS (2.159± ACRES):			
	FOUND ON SUBJECT PROPERTY. SEE REF	IED BY COASTAL & ESTUARINE RESEARCH, INC. AND WEILANDS WERE PORT DATED JUNE 2016.	ADDENDUM	Λ
	16. FLOODPLAIN: PER FEMA MAP NO.10001C0187J, DATED	JULY 7, 2014, THE SUBJECT PARCEL IS DETERMINED TO BE WITHIN ZONE		DATE
	17. GROWTH ZONE:	ELEV 11).		
	THE SUBJECT PARCEL LIES OUTSIDE THE	DESIGNATED GROWTH ZONE.		
	THE SUBJECT PARCEL LIES OUTSIDE THE 18. TOPOGRAPHY: TOPOGRAPHY TAKEN FROM SITE SURVEY F	DESIGNATED GROWTH ZONE. PREFORMED BY MILLER LEWIS, INC. AND CENTURY ENGINEERING, INC.		
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EVELYN MAURMEYER COASTAL & ESTUARINE RESE P.O. BOX 674 LEWES, DELAWARE 19958	THE SUBJECT PARCEL LIES OUTSIDE THE 18. TOPOGRAPHY: TOPOGRAPHY TAKEN FROM SITE SURVEY F 19. DATUM: NAD83 (PER MILLER LEWIS, INC.) 20. OWNER: STATE OF DELAWARE DIVISION OF FISH AND WILDLIFE (DEPARTMENT OF FISH & WILDLIFE 89 KINGS HIGHWAY DOVER, DE 19901 21. APPLICANT STATE OF DELAWARE DIVISION OF FISH & WILDLIFE 89 KINGS HIGHWAY DOVER, DE 19901 JOHN CLARK (302) 739–9914 22. ENGINEER: CENTURY ENGINEERING, INC. 4134 N. DUPONT HIGHWAY DOVER, DE 19901 ALEXANDER SCHMIDT, P.E. (302) 734–9188 CATION #ED-00–078.00–01–08.00, HAS BEEN EXAMINED TES, INCLUDING WETLANDS (SECTION 404 AND SEC VIEWING AGENCIES IN THE FORM OF MANUALS, POL AND INFORMATION CONTAINED IN THIS PLAN SET I ED BY COASTAL & ESTUARINE RESEARCH, INC. ARCH, INC. – MARINE STUDIES COMPLEX	DESIGNATED GROWTH ZONE. PREFORMED BY MILLER LEWIS, INC. AND CENTURY ENGINEERING, INC. PPER KENT COUNTY RECORDS) BY COASTAL & ESTUARINE RESEARCH, INC. FOR THE PRESENCE OF TION 10), STATE SUBAQUEOUS LANDS AND STATE REGULATED WETLANDS ICIES AND PROCEDURES IN PLACE AT THE TIME THAT THE INVESTIGATION S IN ACCORDANCE WITH THIS CRITERIA. THE WETLAND DELINEATION FOR DATE	CONSTRUCTION PLANS FOR LAWARE DIVISION OF FISH & WILDLIFE	LITTLE CREEK BOAT RAMP BAYSIDE DRIVE (SR9, KCR17) .ITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
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	LEGEND	
LISTED BELOW:	1 TYPE C BITUMINOUS CONCRETE, 160 GYRATIONS, PG 64-22, (ITEM NO. 401002)	This drawing is the property of
	2 TYPE B BITUMINOUS CONCRETE, 160 GYRATIONS, PG 64-22, (ITEM NO. 401011)	the exclusive use of its clients
	(3) GRADED AGGREGATE BASE COURSE, TYPE B, (ITEM NO. 301003)	at the location indicated. No other use is authorized or intended.
	SIDE SLOPES OR FLATTER	
ICTION, 2016, OR	5 PROFILE GRADE APPLICATION	
	(ITEM NO. 209006)	Z S S S S S S S S S S S S S S S S S S S
	7 P.C.C. SIDEWALK (ITEM NO. 705001)	
ROMOUS FISH	 INTEGRAL P.C.C. CURB & GUTTER TYPE 3-8 (ITEM NO. 701023) DELAWARE #3 STONE (ITEM NO. 302002) MAXIMUM 8" LIETS 	
ESTING BIRDS	(10) GEOTEXTILES, SEPARATION (ITEM NO. 708002)	
ON ACTIVITIES.	(11) GEOGRID	
R SUPPLY OF	12 6" MINIMUM OF TOPSOIL OR BORROW, TYPE F & PLACE PLANTINGS PER LANDSCAPING PLAN WITH 4:1 SIDE SLOPES OF FLATTER	
SHEET PILE CONSTRUCTION	13 PORTLAND CEMENT CONCRETE MASONRY, ABUTMENT ABOVE FOOTING, CLASS A (ITEM NO. 610002)	
	INDEX OF SHEETS	
DURSE. ALL	C100 COVER SHEET	
IH APPROVED	C101 LEGEND, PROJECT NOTES & TYPICAL SECTIONS	
	C102 EXISTING CONDITIONS & DEMOLITION PLAN C103 CONSTRUCTION LAYOUT PLAN	GHW/F
LLD. NCING, SHEET	C104 SITE GRADES AND GEOMETRICS PLAN	(302) (302)
,	C105 SIGNING AND STRIPING PLAN	00 DO 88 F:
POSSESSES A CONTROL OF	C106 FIRE MARSHAL PLAN	8: 11H D 11H D 134-918
N CERTIFICATE	C107 SITE LIGHTING PLAN	RESS FINOR ER, D
PARTMENT.	C108 UTILITY PLAN	ADD 4134 P: (3
IOWIN. WORK	C109 LANDSCAPE PLAN C110 SOIL BORING LOGS	
ITEMS TO BE MENDATIONS.	C111 CROSS SECTION - FISHING PIER	REVISIONS
N, INCLUDING _ SAFETY AND	C112 CROSS SECTION - ENFORCEMENT DOCK	3/20/17 REVISED PER KENT COUNTY COMMENTS
R IS SOLELY	C113 CROSS SECTION - COURTESY DOCK	6/22/17 60% DFM SUBMISSION
	C114 CROSS SECTION - BOAT RAMP	9/4/17 REVISED PER DFW, DFM, DELDOT, & KENT COUNTY COMMENTS
	C115 STRUCTURAL DETAILS - GANGWAY	12/18/17 REVISED FOR FIXED FISHING PIER
	C116 STRUCTURAL DETAILS - BUAT RAMP C117 CONSTRUCTION DETAILS	1/2/18 REVISED PER KENT COUNTY COMMENTS
	C118 CONSTRUCTION DETAILS	
		Z DESCRIPTION DATE
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		KENT COUNTY - FINAL
		JANUAKY 2ND, 2018
		SCALE SHEET NO.
		PROJECT NO. C101



	This drawing is the property of <u>Century Engineering</u> and is prepared for the exclusive use of its clients at the location indicated. No other use is authorized or intended.
	Description Description A G I N E E R I N G N G I N E E R I N G NSULTING ENGINEERS - SURVEYORS Nebsite Now.centuryeng.com
R R MLW ML	ADDRESS: 4134 NORTH DUPONT HIGHWAY DOVER, DE 19901 P: (302) 734-9188 F: (302) 734-4586
	REVISIONS 3/20/17 REVISED PER KENT COUNTY COMMENTS 6/22/17 60% DFM SUBMISSION 9/4/17 REVISED PER DFW, DFM, DELDOT, & KENT COUNTY COMMENTS 12/18/17 REVISED FOR FIXED FISHING PIER 1/2/18 REVISED PER KENT COUNTY COMMENTS ADDENDUM
I.P. ED-00-078.00-01-09.00 LANDS N.J.F. STATE OF DELWARE DWISION OF FISH AND WILDLIFE D.B. B.	PROJECT CONSTRUCTION PLANS FOR FOR DELAWARE DIVISION OF FISH & WILDLIFE DELAWARE DIVISION OF FISH & WILDLIFE LITTLE CREEK BOAT RAMP LITTLE CREEK BOAT RAMP BAYSIDE DRIVE (SR9, KCR17) LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
 RIGHT OF WAY, LOCATIONS, PROPERTY LINES PROVIDED BY MILLER LEWIS, INC. LAND SURVEYING. CENTURY ENGINEERING, INC. TAKES NO RESPONSIBILITY FOR THEIR ACCURACY. CENTERLINE ALIGNMENT OF BAYSIDE DRIVE BASED UPON EXISTING LOCATIONS PROVIDED BY MILLER LEWIS, INC. LAND SURVEYING. CENTURY ENGINEERING, INC. TAKES NO RESPONSIBILITY FOR THEIR ACCURACY. ENTIRE SITE IS WITHIN ZONE AE FLOOD PLAIN (B.F.E. = ELEV. 	SHEET TITLE EXISTING CONDITIONS & DEMOLITION PLAN
 11.00) 5. ALL DEMOLISHED MATERIAL NOT INTENDED FOR RECYCLING, IS TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF SITE. 6. SITE PREVIOUSLY CONTAINED COMMERCIAL FISHING OPERATION INCLUDING BUILDINGS. DEBRIS MAY BE ENCOUNTERED FROM THE FORMER USE. 7. CONTRACTOR SHALL HAVE THE OPTION TO DISPOSE EXCAVATED SOLUTION DEVISION OF FIGHT AND WITH USE DEDEEDTS (110) 	KENT COUNTY - FINAL DESIGN JANUARY 2ND, 2018 DRAWN CHK'D/DESIGNER
O' 30' 60' 90' SCALE: 1" = 30'	SCALE SHEET NO. 1" = 30' C102 PROJECT NO. 155001.03









'ROJECTS\155001.00 DNREC Fish and Wildlife\155001.03 (Design of Little Creek Boat Ramp)\CADD FILES\Sheets\Construction Plans\C105_SigningStripingPlan.dwg, 1/6/2018 3:21 Ph



	DATA COLUMN		_	(
	 COUNTY TAX MAP: FIRE MARSHAL REVIEW NU 	ED-00-078.00-01-08.0 WBER: 2017-03-0023-MJS-01	0	This drawing i	is the property of
	 PLAN DATE: 	JANUARY 9, 2017		Century Engineerin	ng and is prepared for
	4. ADDRESS OF SITE:	BAYSIDE DRIVE		at the locatio	n indicated. No
	5. NAME OF BUILDING:	LITTLE CREEK BOAT RAM	0	other use is auth	orized or intended.
	6. KENT COUNTY PLANNING	IUMBER:) 5
	7. ZONING:	EXISTING BG: GENERAL E AC: AGRICULTURAL CONS	USINESS ERVATION		RS (
		PROPOSED: N/A			EYO entury
	 LOT AREA: SOURCE OF TITLE: 	5.125± AURES D.R. 7173-327			MAIL: MAIL:
	10. BUILDING USE:	N/A			
٩	11. WATER SUPPLIER:	ON-SITE WELL			l S
	12. PROPOSED BUILDING CON	TRUCTION: N/A			
	13. PERIMETER ACCESS: REQUIRED:	N/A			
	PROVIDED:	N/A			SITE:
	REQUIRED:	N/A N/A			
	15. SPRINKLERED:	N/A			
		BUILDING IS NOT TO BE SPRINKLERED.		7 3 2	
	ALL FIRE LANES, FIRE LANE WITH	RE HYDRANTS AND FIRE DEPARTMENT CONNECTION THE STATE FIRE PREVENTION REGULATIONS.	S SHALL BE MARKED IN		WAY CC
	17. APPLICANT/OWNER:				HIGH (02) 7
	STATE OF DELAWAR DIVISION OF FISH &	: WILDLIFE SU & WILDLIFE DED KENT COUNTY RECORDS)		guint	PONT F: (3
	(DEPARTMENT OF F 89 KINGS HIGHWAY DOVER. DE 19901	SH & WILDLIFE - PER KENI COUNTY RECORDS)		-	1 DUF 19901
	CONTACT: JOHN CL PHONE: (302) 739	RK 9914			SS: ORTH) 734-
	18. ENGINEER:				DDRE 134 N OVER (302)
	CENTURY ENGINEER 4134 N. DUPONT H DOVER. DE 19901	IGHWAY			P D 41
	CONTACT: ALEX SCI (302) 734–9188	MIDT, PE			
				REV	ISIONS
				3/20/17 REVISED PER	KENT COUNTY COMMENTS
				9/4/17 REVISED PER	DEW DEM DELDOT &
		GENERAL NOTES:	FICE OF STATE FIRE	KENT (COUNTY COMMENTS
		MARSHAL ON FEBRUARY 3RD, 2017.		12/18/17 REVISED FOR	FIXED FISHING PIER
		2. MEAN HIGH WATER ELEVATION AND MEAN LO SURVEYED BY CENTURY ENGINEERING, INC.	W WATER ELEVATION FEBRUARY 2017.	1/2/18 REVISED PER	KENI COUNTY COMMENTS
		3. RIGHT OF WAY, LOCATIONS, PROPERTY I MILLER LEWIS, INC. LAND SURVEYING. CE	INES PROVIDED BY NTURY ENGINEERING,		
		INC. TAKES NO RESPONSIBILITY FOR THEIR	ACCURACY.		
		 CENTERLINE ALIGNMENT OF BAYSIDE D EXISTING LOCATIONS PROVIDED BY MILLEF SURVEYING. CENTURY ENGINEERING. 	RIVE BASED UPON LEWIS, INC. LAND INC. TAKES NO		
		RESPONSIBILITY FOR THEIR ACCURACY.	INC. TAKES NO		<u>-NDUM</u> DATF
		5. ENTIRE SITE IS WITHIN ZONE AE FLOOD PL 11.00)	AIN (B.F.E. = ELEV.		
		6. ALL DEMOLISHED MATERIAL NOT INTENDED	FOR RECYCLING, IS		
		BE LEGALLY DISPOSED OF OFF SITE.	INCIDIN AND SHALL		
		7. BEARING AND DISTANCES SHOWN ON PL SURVEY PLAN PREPARED BY MILLER	AN TAKEN FROM A LEWIS, INC. LAND		
		ED-2-78-01-08.), DRAWING NO.		
T.P. ED-00-0 LAND	78.00-01-09.00 5 N.O.F.				
STATE OF DIVISION OF FI	DELAWARE SH AND WILDLIFE 564—345				
ZONI	NG: AC				J
				I T	
					MAR MAR
				SN IIW	ELA TP
				A]	AN 7) 7, DI
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				DF B	B(B(C)
				DN EQ	JEK BIVE D, K
	a-1			SU ISI	CRE DRE DRE
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				COLEC	
				SHEET TILE	
					SHAL PLAN
<i>ا</i> م ا					
/					
י בי ו				JANUARY 2ND, 2018	
I				DRAWN	CHK'D/DESIGNER
				DLD / MDS	AES
				SCALE	SHEET NO.
-				1" = 30'	C100
o				PROJECT NO.	
L	SCALE: 1" = 30'			155001.03	

GENERAL NOTES - ELECTRICAL WORK

- 1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES. ALL OTHER TRADE'S DRAWINGS AND SPECIFICATIONS SHALL BE CONSULTED AND COORDINATED WITH PRIOR TO ROUGH-IN.
- WHEREVER POSSIBLE, THE CONTRACTOR SHALL OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR THE ACTUAL ITEM OF EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. THIS SHALL APPLY TO ALL EQUIPMENT, WHETHER IT IS TO BE INSTALLED BY THE CONTRACTOR OR BY THE OWNER.
- 3. PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS TO INDICATE TYPE OF LOAD SERVED AND AREA SERVED (E.G. RV POWER POST A1).
- 4. UNLESS NOTED OTHERWISE, EVERY CONDUIT CONTAINING 120V OR GREATER WIRING SHALL CONTAIN A SEPARATE INSULATED GROUND WIRE RATED FOR 600V.
- 5. PROVIDE SEPARATE UNSHARED NEUTRAL CONDUCTOR(S) FOR ALL FEEDERS REQUIRING A NEUTRAL (I.E. 1 PHASE 3 WIRE). SHARING OF NEUTRAL CONDUCTORS BETWEEN ANY CIRCUIT (FEEDER) IS NOT PERMITTED. MULTIWIRE FEEDER CIRCUITS ARE NOT PERMITTED.
- 6. CONFIRM ALL EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.
- 7. PROVIDE WARNING LABELS FOR ALL PANELBOARDS AND METER SOCKET ENCLOSURES. WARNING LABELS SHALL READ AS FOLLOWS: "CAUTION. POTENTIAL ELECTRIC ARC FLASH HAZARD. WEAR PROPER PROTECTIVE CLOTHING WHILE EXAMINING, ADJUSTING, SERVICING OR MAINTAINING ENERGIZED EQUIPMENT." INSTALL WARNING LABELS ON EXTERIOR FRONT FACE OF ALL PANELBOARDS AND METER SOCKET ENCLOSURES LOCATED IN UNFINISHED/UTILITY TYPE SPACES. INSTALL WARNING LABELS ON INTERIOR FRONT FACE OF ALL PANELBOARDS LOCATED IN FINISHED SPACES. ENTIRE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE 2011 NEC, ARTICLE 110.16 (FLASH PROJECTION).
- 8. PROVIDE PANELBOARD AS REQUIRED. EACH SPACE SHALL BE A FULLY PREPARED SPACE (I.E. COMPLETE WITH ALL PROVISIONS INCLUDING ALL HARDWARE REQUIRED TO MOUNT A FUTURE CIRCUIT BREAKER INCLUDING BUS CONNECTIONS, CIRCUIT BREAKER MOUNTING BRACKET, CIRCUIT BREAKER COVER AND COVER KNOCKOUTS, ETC.). PANELBOARDS SHALL BE NEMA 3R, LOCKABLE WITH THE SAME KEYING.
- 9. COORDINATE UNDERGROUND RUNS WITH EXISTING CONDITION AND TREE LOCATIONS. 10. VERIFY ELECTRICAL SYSTEM PHASING AND ROTATION WITH UTILITY COMPANY.

- 11. COMPLY WITH CITY OF DOVER PUBLIC WORKS' ELECTRIC UTILITY SPECIFICATION FOR DEVELO PRIMARY, TRANSFORMER, SECONDARY, AND METERING WORKS WITH CITY OF DOVER PUBLIC W
- 12. COMPLY WITH CURRENT NATIONAL, STATE, AND LOCAL ADOPTED CODES.
- 13. SAW CUT PAVED AREAS IN ACCORDANCE WITH CONSTRUCTION DETAILS.
- 14. RESTORE DISTURBED PAVED AREAS IN TO THE ORIGINAL CONDITION OR IN ACCORDANCE WITH
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER (PORTABLE GENER) ETC.).
- 16. ALL CONDUITS SHALL BE SCHEDULE 80 PVC, UNLESS NOTED OTHERWISE.
- 17. UNLESS OTHERWISE INDICATED, ALL CABLES/CONDUCTORS SHALL BE COPPER TYPE. ALU SHALL ONLY BE ALLOW FOR USE FOR PRIMARY AND SECONDARY RUNS IN ACCORDANCE WORKS' REQUIREMENTS.
- 18. UTILITY SERVICE POLE, FUSE CUTOUTS, OVERHEAD LINES UPSTREAM OF UTILITY SERVICE POLE, AND METERS TO BE PROVIDED BY CITY OF DOVER PUBLIC WORKS' ELECTRIC DEPARTMENT.
- 19. FURNISH AND INSTALL TREATED LUMBER BOARDS ON BACK OF EXISTING METER STANDS TO ALLOW FOR INSTALLATION OF NEW PANELBOARDS. RUN SERVICE ENTRANCE WIRING AND CONDUITS AS INDICATED FROM EXISTING METERS TO NEW PANELBOARDS. COORDINATE WITH CITY OF DOVER PUBLIC WORKS FOR INSTALLATION OF NEW METERS.
- 20. CONTRACTOR SHALL HAVE ALL WORK INSPECTED BY UNDERWRITERS INSPECTION AGENCY. INSPECTION CERTIFICATE SHALL BE PROVIDED. . ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SITE CONTRACTOR FOR PLACEMENT OF ALL UNDERGROUND CONDUITS
- AND WIRING. UNDERGROUND SERVICE SHALL BE PLACED AS SHOWN ON THIS SHEET. ANY REVISIONS OR ALTERATIONS TO THE CONDUIT ALIGNMENT SHALL BE APPROVED BY THE ENGINEER.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UTILITY PERMITS FROM DELDOT IF REQUIRED.

- PROPOSED FISHING PIER





SCALE: 1" = 1'- 0"

						SITE LIGHTING	G FIXTURE SCHEDULE	
OPER DOCUMENT. COORDINATE	QTY	TYPE	LAMPS	VOLTAGE	MOUNT	FIXTURE DESCRIPTION	MANUFACTURER CATALOG NUMBER	
	5	A	LED	UNIV. 120–277V	POLE MNT SINGLE @ 20'-0"	SINGLE MOUNT FULL CUTOFF LED PARKING LOT LUMINAIRE AND POLE WITH RECEPTACLE AND PHOTOCELL.	SEE TECHNICAL SPECIFICATIONS FOR LIGHT FIXTURE SELECTION GUIDANCE	20' ALUMINUM POLE POLE – S
I CONSTRUCTION DETAILS. RATORS, TEMPORARY SERVICES,	3	A	LED	UNIV. 120–277V	POLE MNT DOUBLE @ 20'-0"	DOUBLE MOUNT FULL CUTOFF LED PARKING LOT LUMINAIRE AND POLE WITH RECEPTACLE AND PHOTOCELL.	SEE TECHNICAL SPECIFICATIONS FOR LIGHT FIXTURE SELECTION GUIDANCE	20' ALUMINUM POLE POLE – S
UMINUM CABLES/CONDUCTORS WITH CITY OF DOVER PUBLIC	2	-	LED	UNIV. 120–277V	DOCK MNT. SINGLE @ 14'-0"	SINGLE MOUNT WILDLIFE FRIENDLY LED DOCK LUMINAIRE AND POLE WITH RECEPTACLE AND PHOTOCELL	SEE TECHNICAL SPECIFICATIONS FOR LIGHT FIXTURE SELECTION GUIDANCE	14' ALUMINUM POLES

ELECTRICAL LEGEND

- OH OVERHEAD ELECTRIC
- UG-E- UNDERGROUND ELECTRIC
- ELECTRIC UTILITY METER
- ELECTRIC PANEL BOX







	CON	CRETE PAD L	AYOUT	
POINT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
4000	CONC. PAD COR.	422556.6150	648410.2261	5.25
4001	CONC. PAD COR.	422567.5403	648408.9464	5.25
4002	CONC. PAD COR.	422558.0692	648422.6412	5.25
4003	CONC. PAD COR.	422568.9945	648421.3616	5.25

- UL-142 DOUBLE WALL FUEL TANK. THE FUEL TANK SHALL BE CONFIRMED BY THE OWNER PRIOR TO PURCHASING AND INSTALLED PER
- COMPATIBLE WITH THE SELECTED FUEL TANK WITH ADDITIONAL OPTIONS TO INCLUDE FUEL HOSE (MINIMUM 200' LENGTH) AND EMERGENCY STOP RELAY (SAFETY SWITCH). THE FUEL PUMP SHALL BE CONFIRMED BY THE OWNER PRIOR TO PURCHASING AND INSTALLED PER MANUFACTURERS SPECIFICATIONS. EXAMPLE MANUFACTURERS INCLUDE:
- COMPLETE INSTALLATION SHALL MEET ALL RELEVANT LOCAL, STATE, AND
- FUEL PUMP EMERGENCY STOP RELAY. PANEL SHALL BE CONSTRUCTED
- SERVICE DEPARTMENT AT (302)-736-7035 TO HAVE NEW METER INSTALLED ONCE CONTRACTOR HAS SUPPLIED CONDUIT TO THE UTILITY
- AND BE IDENTIFIED AS NON-POTABLE AS SPECIFIED IN THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE SECTION 608.8 AND
- OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTAL INSTALLATION INCLUDING SUPPLY OF WATERLINE AND ELECTRICAL SERVICE TO THE DOCK PEDESTALS UTILIZING THE PROVIDED UTILITY
- ATTACHED TO GANGWAY. LINES SHALL INCLUDE FLEXIBLE CONNECTIONS

- INC. LAND SURVEYING. CENTURY ENGINEERING, INC. TAKES NO
- LOCATIONS PROVIDED BY MILLER LEWIS, INC. LAND SURVEYING. CENTURY
- THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED

othe	at the lo at use is	cation ir authori	e of its c ndicated zed or ir	lients . No ntendec	for I.
V QI		RING	SURVEYORS	EMAIL ·	cei@centuryeng.com
	LINI	VGINE	SULTING ENGINEERS	WEDSITE.	www.centuryeng.com
			CONS	ADDRESS: 4134 NORTH DUPONT HIGHWAY DOVED DE 10001	P: (302) 734-9188 F: (302) 734-4589
3/20/17 6/22/17 9/4/17 12/18/17 1/2/18	REVISEI 60% DI REVISEI REVISEI	REVISIC D PER KE FM SUBMI D PER DF KENT COU D FOR FIX D PER KE	DNS INT COUNT SSION W, DFM, I INTY COMM KED FISHIN	TY COMM DELDOT, MENTS NG PIER TY COMM	ENTS & ENTS
	CRIPTION	ADDENE	DUM	[DATE
		LDLIFE			NARE
CONSTRUCTION PLAN	FOR	DELAWARE DIVISION OF FISH & WI	LITTLE CREEK BOAT RAMP	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAN
PROJECT CONSTRUCTION PLANS	FOR	DELAWARE DIVISION OF FISH & WI	LITTLE CREEK BOAT RAMP	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAN
PROJECT CONSTRUCTION PLANS	EOH TLE UTI	Ξ DELAWARE DIVISION OF FISH & WI	E CREEK BOAT RAMP	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAN



PLANTING NOTES



	а 		Contract (2010)					
HYNES & ASSOCIATES	LOG OF BORIN	G B-2 (Page 1 of 1)		HYNES & ASSOCIATES		L	G OF BOR	(Page 1 of 2)
Century Engineering, Inc. 4134 North DuPont Highway Dover, Delaware 19901 Century-Little Creek Boat Ramp Project No.:: JDH-10/16/368	Date Completed: ::January 30;:2017 Lögged By: ::J. Lindsey Drilled By: :M. Hynes Drilling Method: :HSA (Mobile B:47 HD) Total Depth: :50.5 feet			Century Engineering, Inc. 4134 North DuPont Highway Dover, Delaware 19901 Century-Little Creek Boat Ramp Project No.; JDH-10/16/368	Date Completed: Logged By: Drilled By: Drilling Method: Total Depth:	January 31, J. Lindsey M. Hynes HSA (Mobile 75.5 feet	8-47 HD)	
DESCRIPTION	GRAPHIC. USCS Sample No. Blows per 6 incres.	Remarks		DESCRIPTIO		nscs	Sample No., Blows per 6 inches	Remarks
Brown, wet, medium dense, fine to me little silt, trace clay Dark gray, wet to saturated, soft to ver SILT, with trace fine sand	dium SAND, with SP-SM 1 3-8-8 y soft, organic 2 2-1-1	Scale:1" = 7:75 feet Approximately 3 inches of crushed stone was encountered at the ground: surface.		Dark gray, saturated, very soft, or Trace fine sand	ganic SILT, with		1 WOH/18" 2 WOH/18"	Scale 1" ~7.75 feet Depth to mudline was 5 feet at 12:45 pm.
	3 2-2-2 OH 4 2-1-1	Groundwater was encountered at 5 feet during drilling operations. At completion water was at 2 feet;		8- 8- 30-		он	WOH/18" -	
	(i) WOH/18"	boring caved in at 10 feet.					5 WOH/18"	
Light gray, saturated, medium dense, SAND, with trace silt	Ine to medium SP 6 2:10:17		a a	18 Light gray, saturated, medium der 18 SAND, with trace silt, trace fine gr 20	ise, fine to coarse avel	SP [10-13-17	a
Brown, saturated, very dense, fine to o and clayey SILT	oarse SAND ML/SM 9-29-42			22 Brown, saturated, very dense; fine 24 SAND, with trace silt; trace fine gr	lo medium avel	SP	19-30-39	
with trace silt	19-28-35			28-			11-40-55	
	SP 9-26-34			Light gray, saturated, medium der add medium SAND, with trace silt		SP [10.9.9	
	10 9-22-30			38 - Gray, saturated, dense, fine to me little silt, trace clay	dium SAND, with	SP-SM	10-16-22	
Light brown, saturated, very dense; fin ISAND, with some silt, trace clay	e to medium SM 11 13-26-36			Gray, saturated, very dense, fine t 44 46	o medium SAND,	SP	25-50/2	
Gray, saturated, dense, fine to coarse silt Boring terminated at 50.5 feet.	SAND, with little SP-SM 12 13-15-17			48- 50- 60-			28-50/3"	

HYNES HYNES			ľ	LOG	of Borin	NG B-4	
ASSOCIATES						(Page 2 o	(2)
Century Engineering, Inc. 4134 North DuPont Highway Dover, Delaware 19901 Century-Little Creek Boat Ramp Project No.3 JDH-10/16/368	Date Complete Logged By: Drilled By: Drilling Method Total Depth:	ted), p B idi B	February J. Lindse M. Hyne HSA (Mo 75.5 feel	1, 2017 9 5 bile B-47	HD)		
DESCRIPT	ION	<u>GRAPHIC</u>	nscs	Sample No.	Blows per 6 inches	Remarks	
52 Gray; saturated, very dense, fin 54 with trace sit	e to medium SAND,			13	23-34-49		
58 60 52			SP	<u>11</u>	20:32:46		
64 66 Gray, saturated, hard, sity CLA to medium sand	Y, with some fine			15	20-34-47	1	•
70	ĸ	Ŋ	CL	16	13:17-28		
76 Boring terminated at 75.5 feet.					12-16-26		
78- 80- 82- 84-							
86 88 90 90					ş	ы	
94- 96-							-
					z		



X

	HYNES HYNES				LÖG	OF BORI	NG B-3
	ASSOCIATES						(Page 2 of 2)
	Century Engineering, Inc. 4134 North DuPont Highway Dover, Delaware 19901	Date Completer Logged By: Drilled By:	dî:	January J. Linds M. Hyne	31, 2017 9 5		u
	Century-Little Creek Boat Ramp Project No. JDH-10/16/368	Drilling Method: Total Depth:	5	: HSA (M 75.5 fee	obile B-47	HD)	a
Depth in Feet	DESCRIPTION	L	GRAPHIC	uscs	Sample No.	Blows per 6 inches	Remarks
52- 54-	Gray, saturated, very dense, fine to mee with trace silt	Jium SAND,		SP	13	20-50/3"	
58 60	Gray, saturated, dense, fine to medium trace silt	SAND, with		SP	14	7-10-27	
62- 64-	Gray, saturated, hard, clayey SILT, with sand	trace fine			15	12-14-32	
68- 70-	a	,		МН	16	14-19-33	
72- 74-					17	14-20-35	
76-	Boring terminated at 75.5 feet.					63	
80-							
82-							
84-							
86-							
90-						e	
92-							
94-							
96-							
98-							
100-							
104-						۵	

2	HYNES HYNES				LOG	OF BORI	NG B-4
	ASSOCIATES						(Page 1 of 2)
	Century Engineering, Inc. 4134 North DuPont Highway Dover, Delaware 19901	Date Completed Logged By Drilled By:	E	: Februar : J. Linds : M. Hyne	y 1, 2017 ey s		
	Project No.: JDH-10/16/368	Total Depth:		HSA (M 75.5 fee	obile B-47 t	HD)	
	DESCRIPTION	F	GRAPHIC	UŜĊS	Sample No.	Blows per 6 inches	Remarks
	Dark gray, saturated, very soft, organ	nic SILT, with			Ť	WOH/18*	Scale 1" ~ 7.75 feet
					2	WOH/18"	Depth to mudline was 4 feet at 9:00 am.
	6-)			3	WOH/18"	
	8= 10=			OH	4	WOH/18", °	
	12- 14-				5	"WOH/18"	
	18 Light gray, saturated, medium dense SAND, with trace silt, trace fine grave	, fine to coarse		SP	6	6-9-15	
	22 Gray, saturated, very dense, fine to r 24 with trace silt 26	nedium SAND,		SP	7	18-30-42	
	28 Brown, saturated, very dense, fine to SAND, with trace silt	medium			8	14-41-62	
	32- 34- 36-			SP	9	9-30-48	
	38 Gray, saturated, hard, clayey SILT, w to medium sand	ith some fine		ЯL,	10	9-18-34	
	42 Gray, saturated, very dense, fine to n 44 with trace silt: 46	nedium SAND,			11	13-26-40	
	48.			SP			

			(Page 1 of 1)
March 2 W. Weil W. Weil Hand A 5 feet	22, 2017 land uger		
GRAPHIC	nscs	Sample No.	REMARKS
	SM	1	Scale 1" ~ 7.75 feet
	SP-SM SM	2	
desiliarita	01	4	Approximately 2 inches of organic bearing soil was encountered at the ground surface
	OL	5	nuo onocantereo at trio ground candoo.
			Groundwater was encountered at 4 feet during

0'		5	0'	1	00'	15	50'
			SCALE:	1" = 50'			

othe	at the lo er use is	cation ii authori	ndicated ized or ir	. No Itended	l.
Val	UNI	ERING	SURVEYORS	EMAII ·	בוייאיבי. cei@centuryeng.com
	LUNI (I G I N E H	ULTING ENGINEERS	WERCITE.	www.centuryeng.com
			CONS ADDRESS.	4134 NORTH DUPONT HIGHWAY	P: (302) 734-9188 F: (302) 734-4589
3/20/17 6/22/17 9/4/17	REVISEI 60% DI REVISEI	REVISIO D PER KE FM SUBMI D PER DF KENT COL	DNS ENT COUNT ISSION FW, DFM, I INTY COMM	Y COMMI DELDOT, IENTS	ENTS &
12/18/17	REVISEI	d for fi; d per ke	xed fishin	IG PIER Y COMMI	ENTS
	CRIPTION	ADDENI	DUM	2	DATE
ROJECT CONSTRUCTION PLANS	FOR	DELAWARE DIVISION OF FISH & WILDLIFE	LITTLE CREEK BOAT RAMP	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
CONSTRUCTION PLANS	EOB TLE	DELAWARE DIVISION OF FISH & WILDLIFE	D D D D D D D D D D D D D D D D D D D	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE



I	FISHING PIE	R PILE LAYO	UT
POINT NO.	DESCRIPTION	NORTHING	EASTING
6000	PILE	422601.7031	648092.4772
6001	PILE	422602.1803	648099.4609
6002	PILE	422630.6378	648090.4988
6003	PILE	422631.1151	648097.4825
6004	PILE	422632.1679	648090.9026
6005	PILE	422639.1516	648090.4253
6006	PILE	422634.7513	648128.3161
6007	PILE	422641.7350	648127.8387
6008	PILE	422637.4705	648168.7235
6009	PILE	422644.4542	648168.2462
6010	PILE	422561.8310	648095.6951
6011	PILE	422562.2403	648101.6812





SCALE: 1" = 20'



CROSS SECTION E-E WITH 40 PSF LIVE LOAD AT MLW (MINIMUM ELEVATION) SCALE: 1" = 10'

UMPER TO BE PLACED ALC H, AND EAST SIDES OF DO E	DNG ICK. ALUMINUM CLEATS TO BE PLACED ALL WEST, NORTH, AND EAST SIDES OF DOCK. WATER AND ELECTRICAL SERVICE
18.00'	L 19.00' FLOAT TYP.
NUM LIGHT POLE TED DIRECTLY TO NG DOCK. SEE ON SHEET C107.	ALUMINUM LIGHT POLE MOUNTED DIRECTLY TO FLOATING DOCK. SEE DETAIL ON SHEET C107.

ENFORCEMENT DOCK & GANGWAY PLAN VIEW SCALE: 1" = 10'

ENFORCEMENT	DOCK NO	TES
-		

- 1. FINAL DOCK CONFIGURATION TO BE CONFIRMED WITH OWNER.
- 2. ALL STRUCTURAL ALUMINUM IS TO BE ALLOY 6061-T6.
- 3. ALL DOCK HARDWARE IS TO BE STAINLESS STEEL, SERIES 304.
- 4. FLOATING DOCKS DESIGNED FOR AN 18" UNLOADED FREEBOARD AND AN 8" LOADED FREEBOARD (MAX. DESIGN LIVE LOAD = 40 PSF).
- 5. DOCK DIMENSIONS SHOWN ARE NOMINAL FROM ALUMINUM TO ALUMINUM FRAME. FINAL FINISHED DESIGN DIMENSIONS WILL VARY ACCORDING TO INSTALLED FENDERS & BUMPERS.
- 6. 16 INCH DIAMETER GALVANIZED STEEL GUIDE PILES AND 12 INCH DIAMETER TIMBER SUPPORT PILE DEPTHS BASED UPON MINIMUM EMBEDMENT IN FIRM SAND. SEE ELEVATION VIEW ON THIS SHEET FOR ESTIMATED TIP ELEVATIONS.
- 7. ALL DOCKS, GANGWAYS, RAILING, AND ANCILLARY ITEMS SHALL BE PROVIDED BY THE OWNER.















THE SOUTH SIDE OF THE COURTESY DOCK ALONG TO THE SHORELINE. NO RAILING SHALL BE PLACED ON THE LITTLE RIVER (NORTH) SIDE OF THE DOCK.











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V		RING	SURVEYORS	EMAIL ·	cei@centuryeng.com
		I G I N E I	SULTING ENGINEERS	WEBSITE.	www.centuryeng.com
			CONS	AUDRESS: 4134 NORTH DUPONT HIGHWAY	P: (302) 734-9188 F: (302) 734-4589
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PROJECT CONSTRUCTION PLANS	FOR	DELAWARE DIVISION OF FISH & WILDLIFE	LITTLE CREEK BOAT RAMP	BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
FIGUECT CONSTRUCTION PLANS	TLE ROS BC	DELAWARE DIVISION OF FISH & WILDLIFE	TITTLE CREEK BOAT RAMP	- BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
T DE		DELAWARE DIVISION OF FISH & WILDLIFE	- TITTLE CREEK BOAT RAMP	- BAYSIDE DRIVE (SR9, KCR17)	LITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE
BEET TO BEODECL CONSTRUCTION PLANS	TLE CROS BC COL Y 2ND, Y 2ND, / MD	Solution Solution Solution Solution Solution Solution Solution Solution	CTIC CREEK BOAT RAMP	- N BAYSIDE DRIVE (SR9, KCR17)	ITTLE CREEK HUNDRED, KENT COUNTY, DELAWARE

GENERAL NOTES:

DESIGN AND CONSTRUCTION SPECIFICATIONS:

1.	LOADS

1.1. LIVE LOAD - GANGWAYS AND BOARDWALKS: 40 POUNDS PER SQUARE FOOT WITH A MAXIMUM DEFLECTION OF L/180.

2. MATERIALS: 2.1. ALUMINUM:

2.1.1. ALL STRUCTURAL ALUMINUM IS ALLOY 6061-T6, MILL FINISH. 2.1.2. ALL WELDED FABRICATION IN ACCORDANCE WITH AWS D1.2, UNLESS NOTED OTHERWISE. FILLER METAL TO BE 5356 SERIES WIRE.

- 2.2. STEEL: 2.2.1. ALL FABRICATED STEEL (EXCLUDING STEEL SHEET PILES) SHALL BE ASTM A36, AASHTO M183. STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153, AASHTO M 232. 2.2.2. GALVANIZED COATINGS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE CLEANED AND REPAIRED USING A ZINC RICH COLD GALVANIZING PAINT AS APPROVED BY THE OWNER. STEEL SHEET PILES SHALL BE WEATHERING STEEL COATED IN COAL TAR EPOXY AS PER TECHNICAL 2.2.3. SPECIFICATION SECTION 316216 - STEEL SHEET PILES.
- 2.3. REINFORCING STEEL:
- 2.3.1. ALL REINFORCING STEEL SHALL BE AASHTO M31, (ASTM A615), GRADE 60. 2.3.2. ALL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH AASHTO M284.
- 2.4. TIMBER: 2.4.1. PILES SHALL BE CLASS B SOUTHERN YELLOW PINE IN ACCORDANCE WITH ASTM D25.
- 2.4.2. DIMENSION LUMBER SHALL BE SOUTHERN YELLOW PINE, NO. 2 OR BETTER.
- 2.4.3. ALL PILES AND DIMENSION LUMBER SHALL BE TREATED WITH CHROMATED COPPER ARSENATE (CCA) WITH A MINIMUM RETENTION OF 2.5 POUNDS PER CUBIC FOOT.
- 3. CONNECTIONS: 3.1. ALL BOLTS AND NAILS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, AASHTO M232 OR STAINLESS STEEL IN ACCORDANCE WITH ASTM A316, AS SHOWN ON THE PLANS.
- 3.2. BOLTED CONNECTIONS THAT ARE EXPOSED TO PEDESTRIANS ON THE BRIDGE SHALL BE POSITIONED SUCH THAT THE BOLT HEADS FACE THE DECK AND NUTS FACE AWAY FROM THE THE PUBLIC.
- 4. CONCRETE: 4.1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH SECTION 610 OF THE DELDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED AUGUST 2016) UNLESS OTHERWISE NOTED.
- 4.2. SUBMIT CONCRETE MIX DESIGNS FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK. ALL CONCRETE SHALL USE A DELDOT APPROVED MIX.
- 4.3. CONCRETE FOR ABUTMENT FOOTING SHALL BE DELDOT CLASS A (f'c = 4,500 PSI) AND SHALL CONFORM TO SECTION 610001 - PORTLAND CEMENT MASONRY, ABUTMENT FOOTING, CLASS A.
- 4.4. CONCRETE FOR ABUTMENT STEM, AND RAMPS SHALL BE DELDOT CLASS A (f'c = 4,500 PSI) AND SHALL CONFORM TO SECTION 610004 - PORTLAND CEMENT MASONRY, ABUTMENT ABOVE FOOTING, CLASS A.
- 4.5. MINIMUM CONCRETE COVER FOR REBAR SHALL BE: 3" MINIMUM FOR SURFACES CAST AGAINST EARTH, AND 2" FOR ALL OTHER FIELD-FORMED SURFACES.
- 4.6. CHAMFER ALL EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEM AS NECESSARY FOR CONSTRUCTION OF BOAT RAMP AND GANGWAYS. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEWATERING PERMITS. DEWATERING SYSTEM SHALL BE INCIDENTAL TO THE CONTRACT.

BOTTOM OF FOOTING EL. 1.53± FISHING PIER EL. 0.91± ENFORCEMENT DOCK

└── 12" DIA. TIMBER PILES

This drawing is the property of Century Engineering and is prepared for the exclusive use of its clients at the location indicated. No other use is authorized or intended. Π **M** [T] \bigcirc REVISIONS 3/20/17 REVISED PER KENT COUNTY COMMENTS 6/22/17 60% DFM SUBMISSION 9/4/17 REVISED PER DFW, DFM, DELDOT, & KENT COUNTY COMMENTS 12/18/17 REVISED FOR FIXED FISHING PIER 1/2/18 REVISED PER KENT COUNTY COMMENTS ADDENDUM DATE AWARE DIVISION OF FISH & WILDLIFE ANS LITTLE CREEK BOAT RAMP R17) **CONSTRUCTION PL** Ю DE DRIVE Ū. BA DEL SHEET TITLE STRUCTURAL DETAILS -GANGWAY KENT COUNTY - FINAL DESIGN JANUARY 2ND, 2018 DRAWN CHK'D/DESIGNER DLD / MDS AES SCALE SHEET NO.

NOT TO SCALE

155001.03

PROJECT NO.

C115

BOAT BAMP TIMBER PILE DRIVING SCHEDULE

			SONEDOLE
ROW	SIZE	TOP ELEVATION	EST. TIP ELEVATION *
А	12"ø	-8.43	-37.88
В		-5.61	-36.67
С		-4.41	-35.71
D		-3.21	-34.74
E		-2.01	-33.78
F		-0.81	-32.82
G		+0.39	-31.85
Н		+1.59	-30.89
J		+2.69	-29.86

COURTESY DOCK STEEL GUIDE PILE DRIVING SCHEDULE ROW SIZE TOP ELEVATION EST. TIP ELEVATION **

-30.00

PILE NOTES: * PROVIDE MINIMUM OF 18 FEET EMBEDMENT IN FIRM SAND FOR BOAT RAMP TIMBER PILES. * PROVIDE MINIMUM OF 18 FEET EMBEDMENT IN FIRM SAND FOR COURTESY DOCK STEEL ** PROVIDE MINIMUM OF 16 FEET OF EMBEDMENT IN FIRM SAND FOR COURTESY DOCK STEEL

FIRM SAND SHALL BE THAT MATERIAL THAT CAN SUPPORT THE DEAD WEIGHT OF THE PILE OR SHEET PILE AND THE DRIVING HAMMER BEFORE DRIVING COMMENCES.

G	ANGWAY AND DOCK SI	EGMENT MATRI	X
	1 t		
	TOTAL LENGTH (FT.)*	WIDTH (FT.)	NOTES
	FISHING PI	IER	
	80.75	8	4-20' SECTIONS
	70	8	1-40' SECTION, 1-30' SECTION
	COURTESY D	OCK	
DOCK:	25	8	
G DOCKS:	46	8	3-11.75' SECTIONS, 1-10'
			SECTION
	ENFORCEMENT	f dock	
ENT DOCK:	80.75	8	4-20' SECTIONS
	42	8	1-41.75' SECTION
	30	8	

C117

SQUARE POST SHALL NOT BE LESS THAN 2" X 2" WITH A WALL THICKNESS OF 0.1092".

2" SQUARE TUBING —

2 ½" SQUARE TUBING _

TYPICAL STOP SIGN DETAIL

1. MARK IN 5' SQUARES, USE CORK EXPANSION JOINTS AT INTERVALS NOT GREATER THAN 15'.

2. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED AS PER DELDOT SPECIFICATIONS.

3. CROSS SLOPE OF SIDEWALK SHALL BE 1% MIN., 2% MAX. LONGITUDINAL SLOPE AS SHOWN ON PLANS.

> TYPICAL SIDEWALK DETAIL NOT TO SCALE

TELESCOPING STEEL SIGN POST BREAK AWAY ASSEMBLY NOT TO SCALE

UTILITY PANEL SCALE: 1" = 2'

REMOVABLE BOLLARD NOTES:

1. ALL STEEL SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

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