NCDOT PROJECT U-5527C
MIDDLE SOUND LOOP RD. MULTI-USE PATH
MIDDLE SOUND LOOP RD WILMINGTON
NEW HANOVER COUNTY, NORTH CAROLINA

STATEMENT OF WORK: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A MULTI-USE PATH ALONG THE WEST BOUND LANE OF MIDDLE SOUND LOOP ROAD FROM OYSTER LANE. SPECIFIC IMPROVEMENTS ARE DETAILED HEREIN.
GENERAL NOTES

PROJECT:

SURVEY:

SAWCUTS:

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE TRAFFIC CONTROL PLANS INCLUDED HEREIN.

METHOD OF CLEARING - METHOD II

TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY DATED (JUNE 1, 2018), COMPLETED BY MCKIM AND CREED.

CONTRACTOR SHALL VISIT THE SITE TO INFORM AND SATISFY HIMSELF OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN THE SITE AND THOSE CONDITIONS PRESENTED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE AT 1-800-632-4949 FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE.

THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM THE APPROPRIATE AUTHORITIES BEFORE BEGINNING WORK ON THE PROJECT. CONTRACTOR SHALL PROVIDE ADVANCED NOTIFICATION TO THE RESPECTIVE PROFESSIONALS RESPONSIBLE FOR CONSTRUCTION QUALITY VERIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO, SUB-GRADE, PAVEMENT STRUCTURE, DRAINAGE, AND TRAFFIC CONTROL ITEMS.

THE CONTRACTOR SHALL DISCLOSE DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS TO THE ENGINEER TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. THE CONTRACTOR SHALL MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.

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CONTRACTOR TO RAISE WATER VALVE COVER TO PROPOSED PAVEMENT ELEVATION

CONTRACTOR TO FIELD VERIFY TERMINATION POINTS OF EXISTING TELEPHONE LINES

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

DEMONSTRATION LEGEND

EXISTING FENCE TO BE TEMPORARILY REMOVED AND REPLACED IN LIKE KIND AND LIKE NEW CONDITION

EXISTING TO REMAIN

VEGETATION TO BE REMOVED

PROTECT EXISTING STRUCTURES, UTILITIES, ANIMALS, PLANTS DURING WORK. CONTRACTOR TO REPAIR/REPLACE IF DAMAGED

LIMITS OF DISTURBANCE

LIMITS OF CONSTRUCTION

TEMPORARY CONSTRUCTION EASEMENT

LIMITS OF SAWCUT AND PAVEMENT REMOVAL

100% PLANS

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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NCBELS FIRM LICENSE NO. C-2522

PESIG PEDATE
119 Brookstown Avenue, Suite PH1
160251
6/12/19

TJL PSW DDL

PROJECT: 100% DESIGN

U-5527C

MULTI-USE PATH

SR 1403

MIDDLE SOUND LOOP RD

WILMINGTON, NC

NEW HANOVER COUNTY

230 Government Center Dr.
Suite 110
Wilmington, NC 28403

KVAFTER@NCHGOV.COM
MULTI-USE PATH TYPICAL SECTION (NTS)

10' TRAVEL LANE

Ex. PAV

SH.

30' EXISTING R/W FROM CENTERLINE

EXISTING ROAD

EXISTING R/W

2.00% MAX

2:1 MAX

3:1 MAX

WIDTH OF SWALE VARIES

3:1 MAX

1'

8'

1'

2.5:1 MAX

3:1 MAX

2.0% MAX

3:1 MAX

1'

8'

3:1 MAX

1'

PROPOSED SWALE

PROPOSED SWALE

3:1 MAX

EXISTING PAVEMENT

PAVEMENT SCHEDULE

C1
PROPOSED APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.

J1
PROPOSED 4" AGGREGATE BASE COURSE

K
STABILIZED SUBGRADE

N
GEOTEXTILE

T
PROPOSED COMPACTED EARTH MATERIAL

U
EXISTING PAVEMENT

TYPICAL SECTION 1
MULTI-USE PATH TYPICAL SECTION (NTS)

STA. 37+71.00 to 37+20.00

STA. 38+65.00 to 41+29.45

TYPICAL SECTION 2
MULTI-USE PATH TYPICAL SECTION (NTS)

STA. 37+20.00 to 38+65.00

100% PLANS
This document, together with the concepts and designs presented therein, is intended only for the specific purpose and intended use stated in the solicitation. It shall be without liability to Davenport and shall be a violation of the agreement between Davenport and its client.

C-6.0

Title: Traffic Control

- Post Speed Limit

- Barriers Offset from Oncoming Traffic

- Barriers Protected from Oncoming Traffic

- Black on Orange "Dip" Signs (W8-2) and/or "Bump" Signs (W8-1) 100 ft in advance of the uneven areas.

- Pavement Markings and Markers on the final surface as follows:

- Place one application of Paint for temporary traffic patterns. Place a second application of Paint 56-90 days after the initial application and every 5-6 months as directed by the Engineer.

- Temporary Pavement Markings and Temporary Pavement Markers on Intramark layers of Pavement as follows:

- Road Name Marking

- Place Type III BARRICADES, with "ROAD CLOSED" Sign R11-2 attached, of sufficient length to close entire roadway.

- Install advance warning signs when work is within 45 ft from the edge of travel lane and more than 3 days prior to the beginning of construction.

- Place temporary barriers according to the traffic control plan, making a minimum of 2:00 days prior to beginning work in any location. Once temporary barrier is installed at any location, proceed in a continuous manner to complete the proposed work at that location unless otherwise stated in the traffic control plan or as directed by the Engineer.

- Install stage 1 barrier higher than the post speed limit plus 30 ft to close or keep the section of the roadway closed during the construction. The temporary barriers can be placed or after the temporary barrier is removed.

- Protect the approach end of movable concrete barrier from oncoming traffic at all times by a temporary clear cushion unless the approach end of movable concrete barrier is offset from oncoming traffic 20 ft or 45 ft shown in the plans.

- Post Speed Limit

- Minimum Offset

- 45 MPH or Higher

- 30 FT

- 25 FT

- 15 FT
CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

8" WIDE SOLID WHITE CROSSWALK LINE. SEE DETAIL ON SHEET C-10.0.
EXST. FENCE LINE (APPROX. LOCATION)

8.00' 8.00'

41+43 37+00
37+25 37+50
37+75 38+00
38+25 38+50
38+75 39+00
39+25 39+50
39+75 40+00
40+25 40+50
40+75 41+00
41+25

10.00' 8" WIDE SOLID WHITE CROSSWALK LINE. SEE DETAIL ON SHEET C-10.0.

BIKE LANE ENDS R3-17 & R3-17BP (SEE DETAIL ON SHEET C-10.0)

PROPOSED DITCH ℄

PROPOSED SPECIAL DITCH ℄

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

100% DESIGN

U-5527C
MULTI-USE PATH
SR 1403
MIDDLE SOUND LOOP RD
WILMINGTON, NC

NEW HANOVER COUNTY
230 GOVERNMENT CTR. DR.
SUITE 110
WILMINGTON, NC 28403
KVAFIER@NCHGOV.COM

WANCY COUNTY
119 BROOKSTOWN AVENUE, SUITE PH1
160251
6/12/19
TJL
PSW
DDL
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STA. 37+74.30

SCALE:

STA. 37+00.00

NOTE:

1. All Elevation information is approximate and is based on typical installation depth and field verifications. Not to be used for construction. Field verification is required.

TOTAL LENGTH OF WORK: 0.10 MILES

WILMINGTON, NC
Erosion & Sediment Control Narrative

Project Description

This plan proposes the design of a 8'- Multiuse Path in Wilmington, North Carolina. The site runs north parallel to Middle Sound Loop Road (SR 1403). The total amount of area being disturbed is approximately 0.23 acres (12,442 SF).

Existing Conditions

Existing conditions of the site consist of developed land with managed turf as the majority of surface characteristics. There are landscaped berms running parallel with Middle Sound Road. There are utilities that include but are not limited to telecommunication, water distribution, and stormwater also included with the site, i.e. a road side ditch that runs along with Middle Sound Loop Road that outfalls into a drainage easement that runs parallel with Oyster Lane and Maple Leaf Drive. A subdivision is to the north of the site. The site contains relatively flat slopes with the exception of man made berms that sit adjacent to the site.

Adjacent Properties & Listed Easements

1. 10' Sign Easement (PB 36, PG 253)
2. 10' Utility Easement (PB 253)
3. 20' Drainage Easement (PB 253, PG 370)
4. 10' Sign Easement (PB 63, PG 203)

Offset Areas

Temporary Construction Easement needed for grade connection during construction phase.

Soils

The soils are suitable for use, 0 to 2 percent slopes (K factor: 0.05)

Critical Areas

The site had telecommunication lines, water lines (hydrant # valves) and a water vault within the site. Construction limits as well as trees that are to remain and protected. There are parts of the construction process that will need temporary access onto a private utility easement.

Construction Measures: Construction and Maintenance

See Sheet C-1 through C-9.

Sequence of Construction

Phase 1

1. Contractor to obtain all necessary permits and hold necessary pre-construction meetings as required by local or state jurisdictions. All construction mobilization or work begins.

2. Install all necessary perimeter controls in the vicinity of the planned construction entrances. There are no construction office trailers or normal temporary parking and storage areas anticipated. Clear only the minimum area absolutely necessary to install these perimeter controls. Repair and maintain as needed.

3. Install all necessary erosion controls measures (Silt Fences) protecting the construction entrances. Repair and maintain as needed.

4. Install stabilized construction entrances (along Oyster Lane and Maple Leaf Drive alignment).

5. Install all remaining perimeter sediment control measures. Control measures shall not impact the limits of construction line and the established temporary construction easement. If any fence lines within the site.

6. Construct drainage structure inlet type "D" and associated pipe (diameter 12") outlet shall tie into adjacent ditch. All structures reservable less than one acre may convey water with proper outlet and inlet protection. See Sheet C-3.

7. Apply temporary seeding along areas that have been exposed for seven days. Permanently seeded anywhere that exposed soil.

Sequence of Construction (cont.)

Phase 2

Important: Contractor to complete all steps in phase 1 prior to beginning any work in phase 2

1. Begin grading, and steeping the remaining of the site (phase clearing and grading to the extent practical) to manage the amount of area exposed at any point in time.

2. Begin grading the site and preparing subgrades.

4. Throughout construction, temporarily stabilize disturbed areas immediately following the completion of the most recent land disturbing activity. Including material stockpiles that are scheduled or likely to remain inactive for 7 days or more.

5. Permanently stabilize areas to be vegetated immediately as they are brought to final grade.

6. Prepare site for paving and laying of base aggregate.

7. Pave Site

8. Install ramps

9. Permanently seed any or sod and/or mulch all proposed landscaped areas per NC DOT specifications.
EROSION/SEDIMENT CONTROL PLAN PHASE 2
C-9.3
SHEET NO.
NO.
REVISIONS
DESCRIPTION
DATE
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:
PROJECT:
TITLE:
PROJECT:
CLIENT:
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CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
KEY
SYMBOL
DESCRIPTION
LIMITS OF DISTURBANCE
TEMPORARY SEEDING
INLET PROTECTION
OUTLET PROTECTION
LIMITS OF CONSTRUCTION
CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
100% PLANS
SCALE:
1"=20'-0"
NOTE:
USE 4 PVC TEE TO CONNECT 4" DRAIN TO 4" DRAIN. FILL IN "A" WITH 10'-11" TALL WALLS.

NOTE:
THE HORIZONTAL TROUGH SHALL BE 16" DEEP. ALL WALLS SHALL BE 1'-6" TALL.

NOTE:
SUFFIX 1 FOR B. SUFFIX 2 FOR C. SUFFIX 3 FOR D. SUFFIX 4 FOR E. SUFFIX 5 FOR F. SUFFIX 6 FOR G.

NOTE:
THE BOLTS AND SCRAPS SHOULD BE Fixed AT THE TOP AND BOTTOM OF THE WALL.

NOTE:
PLACE SUFFICIENT BOLTS TO SECURE THE WALLS TO THE FOUNDATION.

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