FINAL ROAD CONSTRUCTION PLAN
KINGS FOREST
LOTS 1-36, BUILDABLE PARCEL D AND
NON-BUILDABLE PARCELS A, B, C & E THRU I,
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

GENERAL NOTES

SITE DATA TABLE

1. GENERAL SITE DATA
   1.1. PROPERTY OWNER: HOWARD COUNTY
   1.2. LOT NUMBER: 1-36
   1.3. BUILDABLE PARCEL: D
   1.4. NON-BUILDABLE PARCELS: A, B, C, E
   1.5. ELECTION DISTRICT: 2ND
   1.6. COUNTY: HOWARD
   1.7. STATE: MARYLAND

2. SURVEY DATA
   2.1. SURVEYOR: BENCHMARK
   2.2. SURVEY DATE: 09/01/2014
   2.3. SCALE: 1" = 200'

3. GENERAL ENGINEERING DATA
   3.1. ENGINEER: BENCHMARK
   3.2. ENGINEERING PROJECT: ROAD CONSTRUCTION
   3.3. SHEET NUMBER: 24

4. LEGEND
   4.1. LEGEND DESCRIPTION: PROTECTION STRUCTURE
   4.2. PROTECTION STRUCTURE:

5. VERNON'S MAP
   5.1. SCALE: 1" = 200'

6. SHEET INDEX
   6.1. SHEET INDEX DESCRIPTION: ROAD CONSTRUCTION
   6.2. ROAD CONSTRUCTION:

7. CONSTRUCTION DETAILS
   7.1. CONSTRUCTION DETAILS DESCRIPTION: ROAD CONSTRUCTION
   7.2. ROAD CONSTRUCTION:

8. ROAD PROFILES
   8.1. ROAD PROFILES DESCRIPTION: ROAD CONSTRUCTION
   8.2. ROAD CONSTRUCTION:

9. SITE DATA
   9.1. SITE DATA DESCRIPTION: ROAD CONSTRUCTION
   9.2. ROAD CONSTRUCTION:

10. GENERAL NOTES
    10.1. GENERAL NOTES DESCRIPTION: ROAD CONSTRUCTION
    10.2. ROAD CONSTRUCTION:

11. ROAD DATA
    11.1. ROAD DATA DESCRIPTION: ROAD CONSTRUCTION
    11.2. ROAD CONSTRUCTION:

12. ROAD ALIGNMENT
    12.1. ROAD ALIGNMENT DESCRIPTION: ROAD CONSTRUCTION
    12.2. ROAD CONSTRUCTION:

13. ROAD CROSS SECTIONS
    13.1. ROAD CROSS SECTIONS DESCRIPTION: ROAD CONSTRUCTION
    13.2. ROAD CONSTRUCTION:

14. ROAD PAVEMENT DETAILS
    14.1. ROAD PAVEMENT DETAILS DESCRIPTION: ROAD CONSTRUCTION
    14.2. ROAD CONSTRUCTION:

15. ROAD CROSSINGS
    15.1. ROAD CROSSINGS DESCRIPTION: ROAD CONSTRUCTION
    15.2. ROAD CONSTRUCTION:

16. ROAD CONSTRUCTION:
    16.1. ROAD CONSTRUCTION:

17. ROAD CONSTRUCTION:
    17.1. ROAD CONSTRUCTION:

18. ROAD CONSTRUCTION:
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19. ROAD CONSTRUCTION:
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99. ROAD CONSTRUCTION:
    99.1. ROAD CONSTRUCTION:
Pudding Lane

SCALE: 1"=50 HORIZ., 1"=5' VERT.

DESIGN SPEED = 20 MPH
NOTE: CONSTRUCTION SHEDS GRADES ARE STABILIZED PROPOSED GRADES UPON COMPLETION OF M easurement.

MATCHLINE SEE SHEET 14

MATCHLINE SEE SHEET 14

NOTE: ALL GRADES TO USE
HD. OIL STANDARD DETAIL R-05 FOR
OPENWAY APPROX.

NOTE: NO CONSTRUCTION MAY
BEGIN UNTIL MATERIALS NEEDED TO
CONSTRUCT THE BASIN ARE ON SITE

NOTE: FOR LAUNCH OF OUTLET
STRUCTURES, GRAVITY, AND SWIM SEE
SHEETS 03 THROUGH 07.

SELF-FEEDING MAY BE REPLACED BY
SUPER SELF-PUMPING AT THE DISCRETION
OF THE SEDIMENT CONTROL INSPECTOR.
NOTE: FOR LOTS 1-28 THROUGH 30 THE FOREST CONSERVATION EASEMENT RETENTION WIDTH IS GREAT ENOUGH TO PROVIDE LANDSCAPE BUFFER NO PLANTINGS REQUIRED.
Forest Conservation Stewardship Cost Estimate

Financial study for the required forest conservation will be based on part of the DDFP's developer's approval. If needful.

1. Watering - All plant material shall be watered at least once a month during the first two years of the project.
2. Removal of native rosemary and invasive species. Old field grasses will be removed.
3. Identification of invasive plant pests and diseases, treatment with appropriate agents.
4. Pruning of dead branches.

B. Planting:

- A combination of trees and shrubs will be used to enhance aesthetic appeal and provide wildlife habitat.
- The developer will provide appropriate materials to properly site plantings.
- All plant materials should be purchased from local nurseries to support the local economy.
- A combination of trees and shrubs will be used to enhance aesthetic appeal and provide wildlife habitat.
- The developer will provide appropriate materials to properly site plantings.
- All plant materials should be purchased from local nurseries to support the local economy.

C. Site Preparation:

- A combination of trees and shrubs will be used to enhance aesthetic appeal and provide wildlife habitat.
- The developer will provide appropriate materials to properly site plantings.
- All plant materials should be purchased from local nurseries to support the local economy.

D. Construction Management:

- All plant materials shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.

E. Watering:

- All plant material shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.

F. Pruning:

- All plant material shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.

G. Maintenance:

- All plant material shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.

H. Site Preparation:

- All plant material shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.

I. Construction Management:

- All plant material shall be watered at least once a month during the first two years of the project.
- Removal of native rosemary and invasive species. Old field grasses will be removed.
- Identification of invasive plant pests and diseases, treatment with appropriate agents.
- Pruning of dead branches.
KINGS FOREST

HOWARD COUNTY, MARYLAND

NOTES
GENERAL NOTES:
1. THIS BRIDGE HAS BEEN DESIGNED FOR THE SITE SPECIFIC PROJECT CONDITIONS OUTLINED HEREIN. CONTECH'S DESIGN REFLECTS GEOTECHNICAL, HYDRAULIC, AND SCOUR ANALYSIS INFORMATION PERFORMED TO CONTECH.
2. PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
3. ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE CONSIPANE APPROVED PRECASTER IN MARYLAND MAY PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.

DESIGN DATA

DESIGN LOADING:
BRIDGE UNITS: HL-93
HEADWALLS: EARTH PRESSURE ONLY
WINGWALLS: EARTH PRESSURE ONLY
DESIGN FILL HEIGHT: 7'-0" TO 4'-0"
FROM TOP OF CROWN TO TOP OF PAVEMENT
DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
NOMINAL BEARING RESISTANCE (ARCHES): 15,500 PSF*
FACTORED BEARING RESISTANCE (ARCHES): 1,000 PSF
NOMINAL BEARING RESISTANCE (WINGWALLS): 10,000 PSF*
FACTORED BEARING RESISTANCE (WINGWALLS): 750 PSF
SERVICE LIMIT STATE BEARING PRESSURE (WINGWALLS): 3,000 PSF

*FOUNDATION ELEVATION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE AASHTO GEOTECHNICAL REPORT FOR THIS PROJECT PREPARED BY GEO-TECHNOLOGY ASSOCIATES, INC. DATED 12/14/2018.

MATERIALS

PRECAST UNITS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CONSIPANE SPECIFICATIONS. CONCRETE FOR FOOTINGS SHALL HAVE A MINIMUM COMpressive STRENGTH OF 4000 FSI. REINFORCING STEEL FOR FOOTINGS SHALL CONFORM TO ASTM A515 OR A505-GRADE 50.

LOCATION PLAN
NOT TO SCALE

CONTECH SHEET: CT1 OF CT10
10 - (303) 3'-0" SPAN x 1'-4½" RISE x 1'-1½" LONG
PRECAST CONCRETE BRIDGE UNITS
PLUS 9 JOINTS @ ½" PER JOINT

DETAIL 1 CTS
12' DETACHED HEADWALL

DETAIL 7 CTS
COVER ALL CORNERS WITH 2'-0" WIDE STRIP OF FILTER FABRIC

DETAIL 3 CTS
COVER ALL WINDWALL JOINTS WITH 2'-0" WIDE STRIP OF FILTER FABRIC

DETAIL 4 CTS
4" PERFORATED DRAIN BATT FILLED WITH WINDWALL (TYP.)

TYPICAL LIFT INSERT SEALING DETAIL
NOT TO SCALE

BRIDGE PLAN

CONTECH SHEET: CT2 OF CT10
**FINISHED ROADWAY ELEVATION OVER STRUCTURE VARIES, APPROXIMATELY 420.0 MIN. - 428.5 MAX.**

**NOTE:**
THIS IS A TYPICAL CROSS-SECTION. SEE SHEET 59 FOR END ELEVATIONS

**SECTION**

**ELEVATION TABLE**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>ELEVATION</th>
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<tbody>
<tr>
<td>TOP OF ARCH</td>
<td>422.33</td>
</tr>
<tr>
<td>LOW CHORDS OF ARCH</td>
<td>421.00</td>
</tr>
<tr>
<td>TOP OF PEDESTAL WALL FOUNDATION</td>
<td>409.16</td>
</tr>
<tr>
<td>BOTTOM OF ARCH LEG</td>
<td>409.99</td>
</tr>
<tr>
<td>BOTTOM OF KEYWAY</td>
<td>405.91</td>
</tr>
<tr>
<td>TOP OF FOUNDATION</td>
<td>404.49</td>
</tr>
<tr>
<td>BOTTOM OF FOUNDATION</td>
<td>401.99</td>
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**TYPICAL BRIDGE UNIT GROUT DETAIL**

NOT TO SCALE

**DETAIL**

**REINFORCING NOT SHOWN FOR CLARITY**
Typical Wingwall Grout Detail

Not to Scale

Sections

- Details of Wingwall Construction
- Grout Specifications
- Backfill Per Conshohocken Specifications
- Typical Wingwall Grout Detail on This Sheet
- Notes:
  - Minimum 1" Grout Under Wingwall Leg & Anchor Stem
  - Area Between Wingwall Footing and Wingwall Anchor Shall Be Grouted Solid Before Backfill
  - Form Backside of Footing to Dimensions Shown on Foundation Plan

Dimensions as Shown

Scale: 1" = 1'-0"

ConTech Sheet: CT5 of CT10

Design Firm: ConTech Engineering, Inc.

Scale: 1" = 1'-0"
SECTION

ELEVATION TABLE

<table>
<thead>
<tr>
<th>LOCATION</th>
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<tbody>
<tr>
<td>TOP OF ARCH</td>
<td>422.33</td>
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<tr>
<td>LOW CHORD OF ARCH</td>
<td>421.90</td>
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<tr>
<td>TOP OF PEDESTAL WALL FOUNDATION</td>
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<td>BOTTOM OF ARCH LEG</td>
<td>409.96</td>
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<td>BOTTOM OF KEWAY</td>
<td>408.91</td>
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<td>TOP OF FOUNDATION</td>
<td>404.60</td>
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<td>BOTTOM OF FOUNDATION</td>
<td>401.58</td>
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TYPICAL JOINT SEAL DETAIL

NOT TO SCALE

PRECAST BRIDGE UNIT

PRECAST HEADWALL

LIMITS OF BACKER ROO & CAULK IN HEADWALL
JOINT BY CONTRACTOR

51/2" BUTYL ROPE, INSTALLED IN FIELD CONTINUOUSLY BETWEEN PRECAST
BRIDGE UNIT AND PRECAST HEADWALL

PRIMER COMPATIBLE WITH JOINT WRAP

TOP OF PRECAST BRIDGE UNIT

3/8" x 1 1/2" BUTYL ROPE

2" WIDE JOINT WRAP

STREAM BED

ELEV 409.37A

STREAM BED

ELEV 407.29A

PRECAST WALL

10' DETACHED HEADWALL (TYP.)

TRAFFIC BARRIER (SEE ROAD CONSTRUCTION PLANS) (TYP.)

PROPOSED GRADE
SEE TYPICAL JOINT SEAL DETAIL ON THIS SHEET (TYP. BETWEEN UNITS)

FINISHED ROADWAY ELEVATION OVER STRUCTURE VARIES, APPROXIMATELY
425.0 MIN - 426.0 MAX.

COVER VARIES FROM 2'-6" MIN. TO 4'-0" MAX.

INCHES INSTALLED IN CONCRETE FOOTERS BEHIND HEADWALL.
4"2 DETAIL ON SHEET 18 (TYP.)

CONCERT SHEET: CT7 OF CT10

CONSTRUCTION SEQUENCE:

1. PROPOSED GRADE
2. TRAFFIC BARRIER
3. PRECAST HEADWALL
4. PRECAST BRIDGE UNIT
5. LIMITS OF BACKER ROO & CAULK IN HEADWALL
6. JOINT BY CONTRACTOR
7. 51/2" BUTYL ROPE, INSTALLED IN FIELD CONTINUOUSLY BETWEEN PRECAST
BRIDGE UNIT AND PRECAST HEADWALL
8. PRIMER COMPATIBLE WITH JOINT WRAP
9. TOP OF PRECAST BRIDGE UNIT
10. 3/8" x 1 1/2" BUTYL ROPE
11. 2" WIDE JOINT WRAP
12. FINISHED ROADWAY ELEVATION OVER STRUCTURE VARIES, APPROXIMATELY
425.0 MIN - 426.0 MAX.
13. COVER VARIES FROM 2'-6" MIN. TO 4'-0" MAX.
14. INCHES INSTALLED IN CONCRETE FOOTERS BEHIND HEADWALL.
15. 4"2 DETAIL ON SHEET 18 (TYP.)
SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CON/SPAN® O-SERIES BRIDGE SYSTEMS (CONT'D)

11. BRIDGES:
Each bridge unit shall be clearly marked by waterproof paint. The marking shall be done on the sides of the vertical elements of the bridge. The marking shall include the name of the manufacturer, the date of manufacture, the construction number, and the number of the bridge unit.

12. INSTALLATION:

12.1. The installation of the precast concrete bridge units shall be performed in compliance with the manufacturer's recommendations. All meters and equipment shall be properly calibrated prior to installation.

12.2. The installation shall be performed by certified personnel. The installation process shall be monitored to ensure quality control.

13. TYPICAL CONCRETE MATERIALS:

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>MATERIAL</th>
<th>AASHTO DESIGNATION</th>
<th>TYPICAL USE</th>
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<tbody>
<tr>
<td>Aggregate</td>
<td>Crushed Stone</td>
<td>AGG-1</td>
<td>Base Course, Shoulder, Subgrade</td>
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<tr>
<td>Cement</td>
<td>Ordinary Portland Cement</td>
<td>C-150</td>
<td>Concrete Mixes</td>
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<tr>
<td>Fine Aggregate</td>
<td>Silica Sand</td>
<td>F-10</td>
<td>Concrete Mixes</td>
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14. ACCEPTABLE SOILS FOR USE IN B-ZONE:

<table>
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<th>SPECIFICATION</th>
<th>SOIL DESCRIPTION</th>
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<tbody>
<tr>
<td>C-1</td>
<td>Plasticity Index (PI) 5-10, Liquid Limit (LL) 25-30, Plastic Number (PL) 10-15, Shear Strength</td>
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<tr>
<td>C-2</td>
<td>Plasticity Index (PI) 10-15, Liquid Limit (LL) 30-35, Plastic Number (PL) 15-20, Shear Strength</td>
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15. WALL BACKFILL REQUIREMENTS:

<table>
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<tr>
<th>SPECIFICATION</th>
<th>WALL BACKFILL REQUIREMENTS</th>
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</thead>
<tbody>
<tr>
<td>ZONE A</td>
<td>Backfill with a minimum shear strength of 0.5 ksi, which shall be determined by a competent engineer.</td>
</tr>
<tr>
<td>ZONE B</td>
<td>Backfill with a minimum shear strength of 1.0 ksi, which shall be determined by a competent engineer.</td>
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16. CONSTRUCTION:

<table>
<thead>
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<th>SPECIFICATION</th>
<th>CONSTRUCTION REQUIREMENTS</th>
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<tbody>
<tr>
<td>Foundation</td>
<td>Concrete footing to a depth of 0.5 ft below the final grade.</td>
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<tr>
<td>Anchors</td>
<td>Anchors shall be installed to a depth of 2 ft below the final grade.</td>
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17. DRAWINGS:

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>DRAWING REQUIREMENTS</th>
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<tbody>
<tr>
<td>Details</td>
<td>All details shall be reviewed by the project engineer prior to construction.</td>
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<tr>
<td>As-Built</td>
<td>As-built drawings shall be provided upon completion of the project.</td>
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18. CONSTRUCTION INSTRUCTIONS:

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>CONSTRUCTION INSTRUCTIONS</th>
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<tbody>
<tr>
<td>Precautions</td>
<td>All personnel shall wear appropriate safety equipment.</td>
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<tr>
<td>Safety</td>
<td>Safety precautions shall be followed at all times.</td>
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19. QUALITY CONTROL:

<table>
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<th>SPECIFICATION</th>
<th>QUALITY CONTROL REQUIREMENTS</th>
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<tbody>
<tr>
<td>Inspection</td>
<td>Inspections shall be performed at regular intervals.</td>
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<tr>
<td>Test</td>
<td>Tests shall be performed as specified in the project specifications.</td>
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20. COMPLIANCE:

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<th>SPECIFICATION</th>
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<tr>
<td>Code</td>
<td>All work shall comply with applicable codes and standards.</td>
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<tr>
<td>Safety</td>
<td>Safety regulations shall be followed at all times.</td>
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