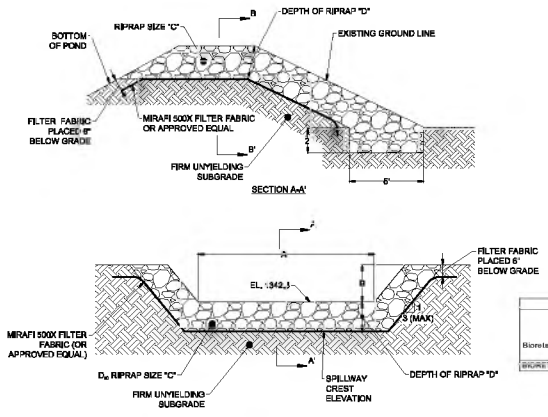
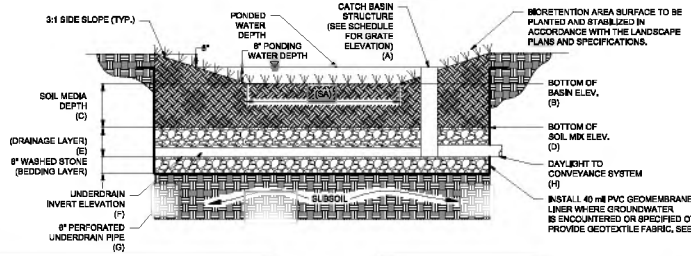



NOTES:

1. REFER TO PLANS FOR AREA OF RIPRAP.

| EMERGENCY SPILLWAY SCHEDULE | | | | |
|---|---|---|---|---|
| POND | A (ft) | B (ft) | C (in) | D (in) |
| DET-1 | 20 | 1.5 | 6 | 14 |

## 1 EMERGENCY SPILLWAY DETAIL
N.T.S.

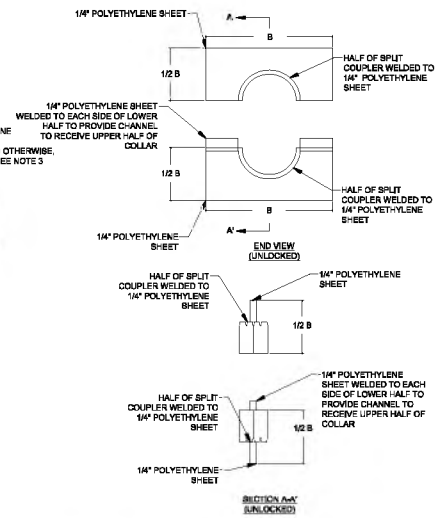


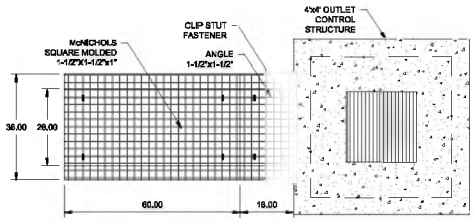

| Bioretention Area Schedule | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bioretention Area No. | Surface Area (sf) (SA) | Outlet Structure No. | Outlet Structure Dimension | Frame and Grate number | Overflow Grate Elev. (A) | Bottom of Basin Elev. (B) | Depth of Soil Mix (ft) (C) | Bottom of Soil Mix Elevation (D) | Depth of Drainage/ Gravel Course (ft) (E) | Underdrain Invert Elev. (F) | Underdrain Pipe Diameter (in) (G) | Outlet Pipe Invert Elev. (H) | Length of Underdrain (ft) | No. of Cleanouts |
| BIORETENTION 1 | 3,970 | OCS BIO-1 | 4' 0"x4' 0" | #3247 | 1342.23 | 1341.73 | 2.5 | 1339.23 | 1 | 1338.23 | 6.0 | 1337.39 | 228.0 | 7 |

NOTES:

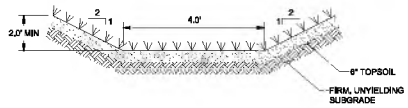
1. REFER TO CONTRACT SPECIFICATION SECTION 320513 "SOILS FOR EXTERIOR IMPROVEMENTS" FOR BIORETENTION AREA SOIL MEDIA DESIGN.
2. BIORETENTION BASIN SURFACE AREA IS MEASURED FROM THE ELEVATION OF THE OVERFLOW CATCH BASIN.
3. GROUNDWATER SHALL BE DETERMINED BY FIELD INVESTIGATION (TEST PIT) AT ALL BIORETENTION POND LOCATIONS. GEOMEMBRANE LINER IS REQUIRED WHERE GROUNDWATER IS ENCOUNTERED AT LEAST 2 FT BELOW BEDDING LAYER.
4. REFER TO SPECIFICATION SECTION 334100 "STORM DRAINAGE UTILITY PIPING", SECTION 320513 "SOILS FOR EXTERIOR IMPROVEMENTS" AND SECTION 329200 "PLANTING, OPERATION AND MAINTENANCE OF PLANTING" FOR SUBMITTAL, MATERIAL, AND INSTALLATION REQUIREMENTS.

## 2 BIORETENTION AREA DETAIL AND SCHEDULE
N.T.S.

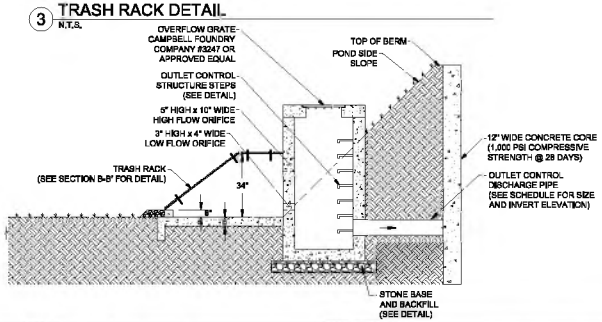



## 3 TRASH RACK DETAIL
N.T.S.

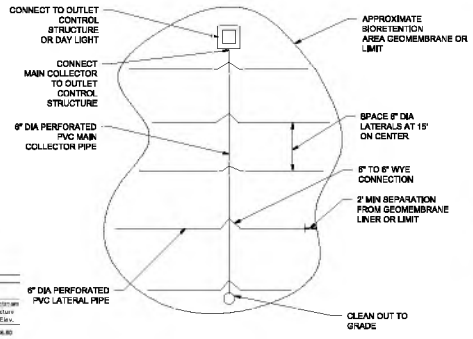



## 4 EXISTING EMERGENCY SPILLWAY SWALE SECTION
N.T.S.




| Pond Schedule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Structure Size | | Low Flow Orifice | | | High Flow Opening (Vertical) | | | Overflow Grate | | | Outlet Control Discharge Pipe | | | | | | | | | | | |
| Pond No. | Basin side slopes (H:V) | Bottom of Basin Width (ft.) | Emergency Spillway Elev. | Top of Berm Elev. | Structure No. | Structure Length (ft.) | Structure Width (ft.) | Inv. Elev. | Width of Opening (in.) | Height of Opening (in.) | No. of Openings | Inv. Elev. | Width of Opening (in.) | Height of Opening (in.) | Grate Elev. | Width (ft.) | Length (ft.) | Outlet Structure Inv. Elev. | Length (ft.) | Slope (ft/ft) | Diameter (in.) | Downstream Structure No. | Downstream Structure Inv. Elev. |
| 1 | 2H:1V | 8 | 1337.00 | 1342.50 | OCS DET-1 | 4 | 4 | 1,337.90 | 4 | 3 | 1 | 1,338.64 | 10 | 8 | 1,340.07 | 2 | 2 | 1,337.00 | 39 | 0.017 | 12 | FES-3 | 1,336.80 |

## 5 PRECAST 4'X4' OCS DET-1
N.T.S.




## 6 TYPICAL BIORETENTION UNDERDRAIN LAYOUT DETAIL
N.T.S.

| Seepage Collar Schedule | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pond | Upstream structure | 100 Yr. WSE (ft) | Pipe Diameter (ft) | Distance from Upstream Structure (ft) | Spacing (ft) | Ls (ft) | No. of Collars | (From Figure 5.17(2)) Collar Projection, V (ft) | Collar Size B, (ft) |
| 1 | OCS DET-1 | 1343 | 1 | 4.5 | 9 | 24 | 2 | 0.85 | 2.75 |

NOTE

SEE POND SELECTION DETAIL SCHEDULE FOR ANTI-SEEPAGE COLLAR DIMENSIONS

## 7 ANTI-SEEPAGE COLLAR DETAIL
N.T.S.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INSITE ENGINEERING, SURVEYING, & LANDSCAPE ARCHITECTURE, P.C.
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(845) 225-9690

SONNY KONG, P.E.


REVISIONS

| No. | DATE | DESCRIPTION |
|---|---|---|
| | | |

PROJECT
MONSTER GOLF MAINTENANCE BUILDING FINAL DESIGN

| DRAWN BY | CHECKED BY |
|---|---|
| JWH | SK |
| SCALE | DATE |
| AS NOTED | 06/28/2019 |

SHEET TITLE
DETAILS

SHEET NO.
C-907