CONSTRUCTION NOTES

HIS/HER OWN SATISFACTION.

- 1. ALL MATERIALS SHALL MEET OR EXCEED CURRENT HOWARD COUNTY VOLUME IV DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- 2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING PERFORMED.

 3. SURVEY OF THIS SITE WAS PERFORMED BY OTHERS
- 4. STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT SINCE THE PROJECT WILL NOT ADD IMPERVIOUS AREA AND DISTURBS LESS THAN
- 5000 S.F.

 5. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVEINENCE OF THE CONTRACTOR ONLY, AND STRAUGHAN ENVIRONMENTAL DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION AT
- 6. THE EXISTING INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM THE BEST AVAILABLE SOURCES AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE STARTING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY. ALL UTILITIES SHALL HAVE A CLEARANCE OF A LEAST 2 FEET VERTICALLY AND A MINIMUM 5 FEET HORIZONTALLY.
- 8. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY STRAUGHAN ENVIRONMENTAL IMMEDIATELY TO RESOLVE THE SITUATION.
- 9. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 10. THE CONTRACTOR IS SOLEY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, TESTING, VERIFICATIONS, AND SAFETY PERCAUTIONS AND PROGRAMS.
- 11, ALL BACKFILL AROUND STRUCTURES MUST BE HAND—COMPACTED IN 4 INCH LIFTS.
- 12. THERE WILL BE NO CHANGES IN SPECIFICATIONS, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

SEQUENCE OF CONSTRUCTION

- 1. BEFORE BEGINING CONSTRUCTION NOTIFY ALL APPLICABLE AGENCIES.
- 2. PERFORM ALL WORK IN A TIMELY MANNER.
- 3. INSTALL SILT FENCE PRIOR TO GRUBBING.
- 4. AFTER ALL STORMWATER MATERIALS ARE ON-SITE AND DURING A 5-DAY CLEAR WEATHER FORECAST, REMOVE EXISTING 12" CMP PIPE AND ASPHALT PATH SECTION. INSTALL END SECTION, 12" HDPE OUTFALL PIPE, AND PROPOSED INLET. COMPLETE GRADING OVER OUTFALL PIPE AND REPAIR ASPHALT PATH.
- 6. INSTALL UNDERDRAIN AND SPECIFIED MEDIA FOR RAIN GARDEN. COMPLETE GRADING FOR RAIN GARDEN FACILITY.
- 7. SPREAD TOPSOIL AND STABILIZE ALL DISTURBED AREAS ACCORDING TO SEEDING RECOMMENDATIONS.
- 8. REMOVE EROSION AND SEDIMENT CONTROL MEASURES FOLLOWING APPROVAL BY INSPECTOR.

STRAUGHAN

ENVIRONMENTAL



<u>DATA SUMMARY:</u> LIMIT OF DISTURBANCE = 4535 SF

RAIN GARDEN 1

DRAINAGE AREA TO PROP. RAIN GARDEN $1=46,050~\rm SF$ (1.06 AC) IMPERVIOUS AREA TO PROP. RAIN GARDEN $1=9229~\rm SF$ (0.21 AC) PROVIDED WQv IN RAIN GARDEN $1=1003~\rm CF$ PROVIDED (Pe) IN PROP. RAIN GARDEN $1=1.13~\rm IN$

COLUMBIA ASSOCIATION

VICINITY MAP

SCALE: 1"=2000'

LEGEND

DRAINAGE AREA TO

PROPOSED FACILITY

---- LIMIT OF DISTURBANCE

PROPERTY LINES

BOUNDARY

OPEN SPACE

TIME OF CONCENTRATION PATH

PROPOSED CONTOURS (SWM)

EXISTING CONTOURS (GIS)

PROPOSED STORM DRAIN PIPE

EXISTING STORM DRAIN PIPE

HYDROLOGIC SOIL GROUP

IMPERVIOUS AREA

WOODS WITH GRASS

GRAPHIC SCALE 1"=50'

DORSEY HALL COMMUNITY POOL
DRAINAGE AND STORMWATER
MANAGEMENT CONTROL

PROPOSED DRAINAGE AREA MAP

SCALE1" = 50' ADVERTISED DATE CONTRACT NO.

DESIGNED BY BW COUNTY HOWARD

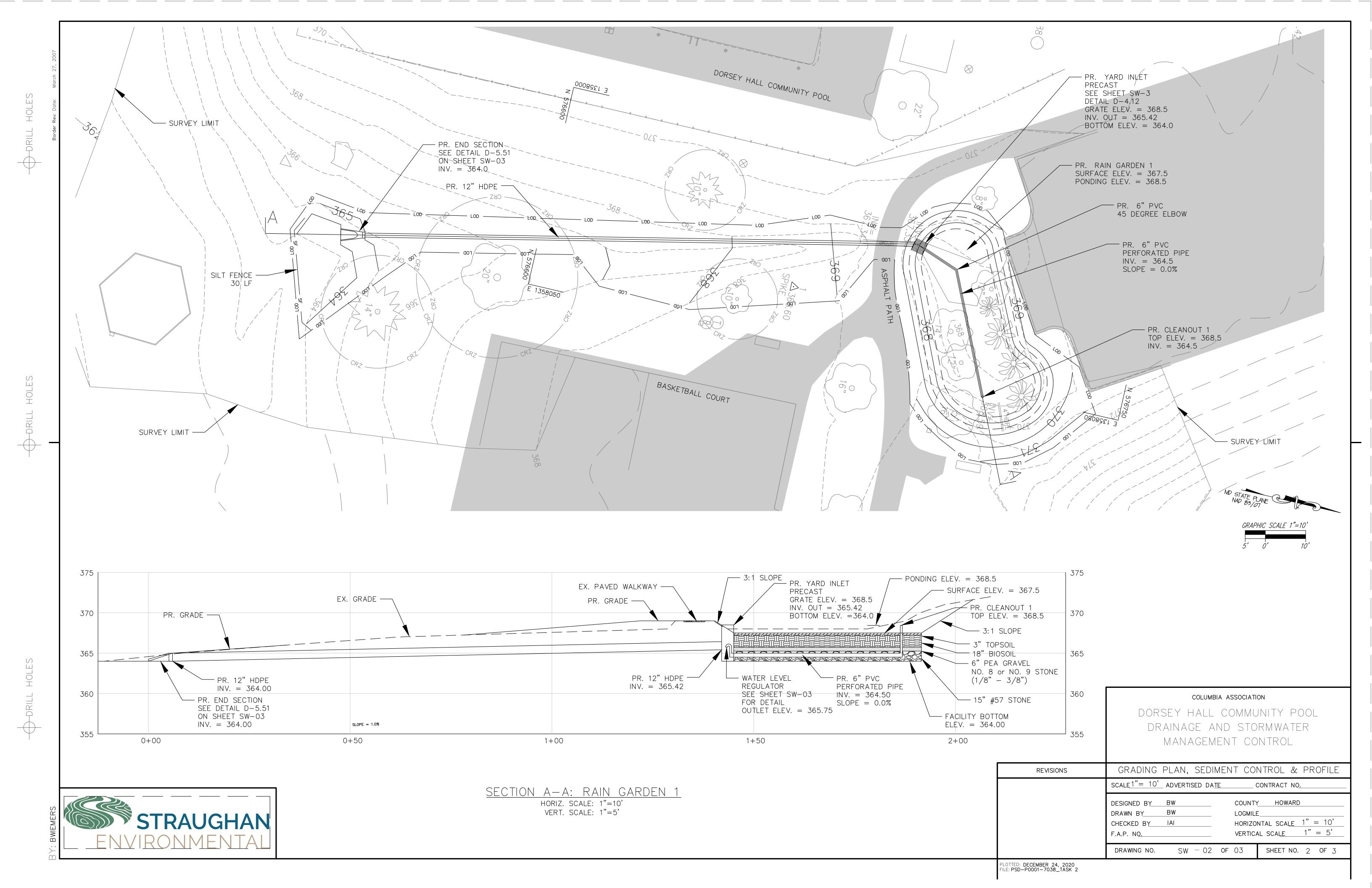
DRAWN BY BW LOGMILE

CHECKED BY IAI HORIZONTAL SCALE 1" = 50'

F.A.P. NO. VERTICAL SCALE

DRAWING NO. SW - 01 OF 03 SHEET NO. 1 OF 3

PLOTTED: JANUARY 6, 2020 FILPSD-P0000-7037-TASK 1



TEMPORARY SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE SHORT-TERM VEGEATATION COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PERVIOUSLY

SOIL AMENDMENTS: APPLY 600LBS/ACRE 10-10-10 FERTILIZER (14LBS/1000S.F.).

SEEDING - FOR THE PERIODS MARCH 1 - APRIL 30. AND AUGUST 15 - OCTOBER 15, SEED WITH 2-1/2 BUCHEL PER ACRE OF ANNUAL RYE (3.2LBS/1000S.F.). FOR THE PERIOD MAY 1 - AUGUST 14, SEED WITH 3LBS/ACRE OF WEEPING LOVEGRASS (0.07LBS/1000S.F.). FOR THE PERIOD NOVEMBER 16 - FEBRUARY 28, PROTECT SITE BY APPLYING 2TONS/ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90LBS/1000S.F.) OF UNROTTED, WEED-FREE SMALL GRAIN STRAW IMMEDÍATELY AFTER SÉEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5GAL/1000S.F.) OF EMULSIFIED ASPHALT ON FLAT ÀREAS. ON SLOPES 8 FEET OR HIGHTER, USE 348 GALLONS PER ACRE (8LBS/1000S.F.) FOR ANCHORING. REFER TO 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDINATE

FURTHER DISTURBANCE WHERE A PERMANENT LOG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

1. PREFERRED - APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92LBS/1000S.F) AND 600 LBS/ACRE 10-10-10 FERTILIZER (14LBS/1000S.F.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400LBS/ACRE 30-0-0 UREAFORM FERTILIZER (9LBS/1000S.F.)

2. ACCEPTABLE - APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92LBS/1000S.F) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23LBS/1000S.F.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 - APRIL 30, AND AUGUST 1 -OCTOBER 15, SEED WITH 10LBS/ACRE (1.4LBS/1000S.F.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 - JULY 31, SÉED WITH 60LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2LBS/ACRE (0.05LB/1000S.F.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16TH - FEBRUARY 28, PROTECT SITE BY: OPTION 1 - TWO TONES PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.

OPTION 2 - USE SOD.
OPTION 3 - SEER: WITH 60LBS/ACRE KENTUCKY 30 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90LBS/1000S.F.) OF UNROTTED, WEED-FREE, SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5GAL/1000S.F.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHTER, USE 348 GALLONS PER ACRE (8LBS/1000S.F.) FOR ANCHORING.

PROPOSED YARD INLET

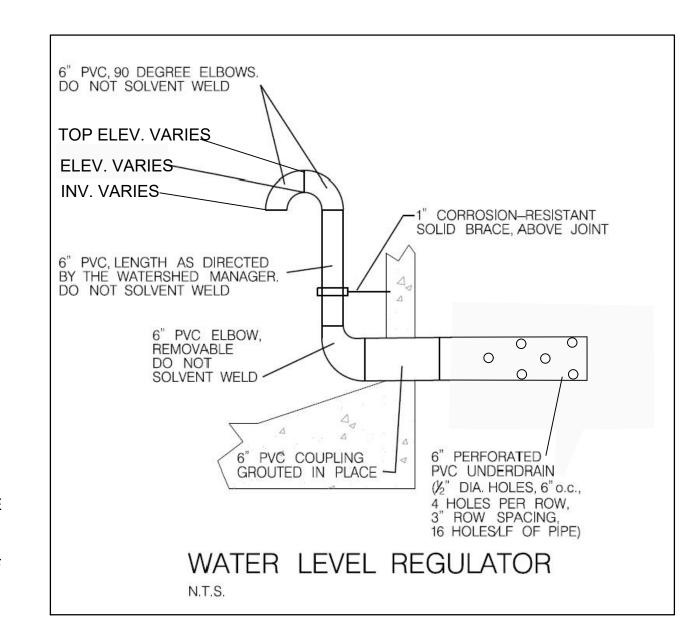
CLEANOUT WITH WATERPROOF CAP

6" PVC FITTING

PROPOSED 6" PERFORATED PIPE

45 DEGREE ELBOW

MAINTANENCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.



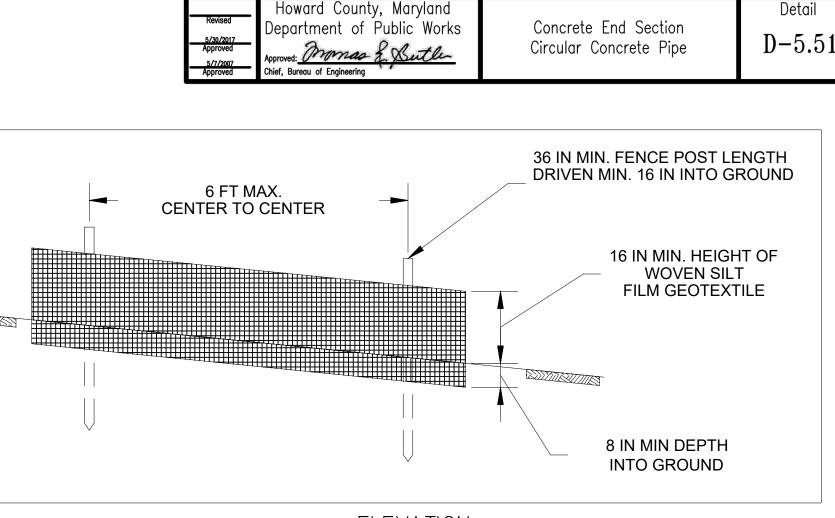
PROPOSED PIPE

OR AS SHOWN

ON PLANS

PROPOSED 6"

PERFORATED PIPE



TONGUE END ON INLET SECTION

GROOVE END ON OUTLET SECTION

<u>PLAN</u>

SLOPE -

DEFORMED STEEL BARS

DIMENSIONS

CONCRETE END SECTION

SECTION A-A

QUANTITIES FOR ESTIMATING PURPOSES ONLY

 54"
 2.4:1
 2'-5"
 5'-2"
 2'-10"
 8'-0"
 7'-6"
 9'-0"
 18'
 12'
 0.50
 78.00

 60"
 3:1
 2'-7"
 4'-11"
 3'-8½"
 8'-7½"
 8'-0"
 9'-6"
 18'
 12'
 0.53
 82.50

66" 3:1 2'-4" 6'-6" 1'-9" 8'-3" 8'-6" 10'-0" 18' 12' 0.56 87.00 72" 3:1 2'-10" 6'-6" 1'-9" 8'-3" 9'-0" 10'-9" 18' 12' 0.60 93.75

QUANTITIES

Y CONC STEEL
CY LBS

CONCRETE FOOTER

NOTES

. END SECTIONS MUST BE REINFORCED TO CONFORM

ON THE PLANS, COST OF CONCRETE FOOTER TO BE INCLUDED IN PRICE OF END SECTION. CONCRETE TO BE MIX NO. 2. REINFORCEMENT TO BE NO. 3

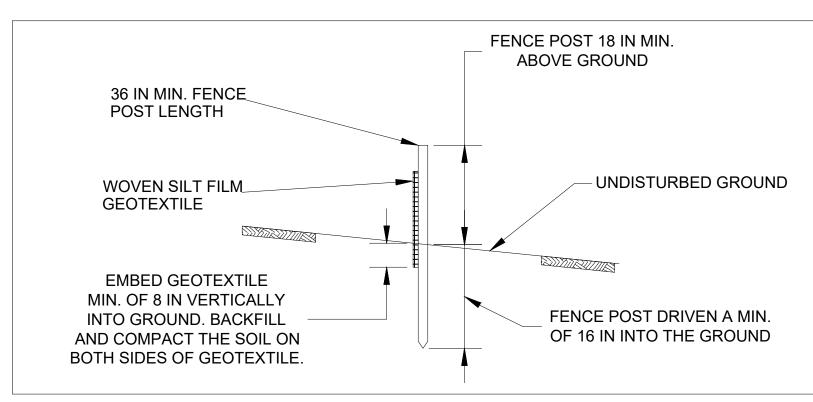
(A) INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON THE CONSTRUCTION PLANS.

END VIEW

FOR CONCRETE FOOTER

ISOMETRIC VIEW

ELEVATION



CROSS SECTION SILT FENCE DETAIL

-26- 3/4 "x 1/8 " VERTICAL BEARING BARS ON 1 3/16 " C/C -8-CROSS BARS ON 4" C/C **GENERAL NOTES:** 23/4" 1. SEE DETAIL D-4.01 FOR GENERAL NOTES APPLICABLE TO ALL STORM DRAIN INLETS 2. CONCRETE TO BE MIX NO.6 (4500 PSI). 3. REINFORCING-2 LAYERS OF 4x4-W4.0x W4.0 WELDED WIRE FABRIC. 4. THREADED PLASTIC INSERTS TO BE PROVIDED FOR 6. GRATING SHALL BE STEEL "IRVING X-BAR TYPE AA" OR APPROVED EQUIVALENT. ALL MATERIAL TO BE HOT 6. GRADE AND SLOPE ADJUSTMENTS TO BE COMPLETED IN THE FIELD USING CONC. MIX NO.6 OR BRICK AND MORTAR. MIN. ONE LAYER OF BRICK OR 3" OF 7. PIPE OPENINGS TO BE PROVIDE AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS REFER TO / 2"-| | - 2'-4" - | | - 2" 8. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS NOTED ON THE PLANS. SEE DETAILD-4.02 FOR THE KNOCKOUT DETAILS. 9. MINIMUM DEPTH PAYMENT PER "EACH" INLET INCLUDES DEPTHS UP TO 3'-6" MEASURED FROM THE PIPE INVERT TO THE TOP OF THE GRATE. -2- 2"x 1 1/4 "x 3/16 "x2'-6" (CENTERED ON VERTICAL DEPTH PAYMENT PER LINEAR FOOT FOR GRATE) TRIM VERTICAL LEG OF ANGLE TO 3/4 " IN HEIGHT WELD SECURELY TO GRATING AT EVERY 4TH DEPTHS IN EXCESS OF 3'-6". BAR (WELDED AREAS TO BE TOUCHED UP WITH ZINC RICH PAINT AFTER WELDING.) -TOWARD INLET HEAD BOLTS 2" LONG IOINT SEALER-ASHTO M 198 TYPE B (APPLIED KEYED JOINT-SECTION B-B SEE NOTE 97 LAP SPLICE TO MAKE
REINFORCEMENT CONTINUOUS PROVIDE 6" MIN. BEDDING -AROUND OUTSIDE CORNER. FIRM SUBGRADE SECTION A-A

Howard County, Maryland

epartment of Public Works

proved: Onomas & Sutle

Chief, Bureau of Engineering

5/30/2017

3" TOPSOIL **BIOSOIL** 6" PEA GRAVEL No. 8 or No. 9 Stone (1/8" - 3/8") NO.57 STONE 6" PERFORATED STORMDRAIN PIPE RAIN GARDEN FILTER BOTTOM AASHTO M-278 WRAPPED WITH 1/4" HARDWARE CLOTH

YARD INLET

Precast

FILTER TOP

RAIN GARDEN TYPICAL SECTION

COLUMBIA ASSOCIATION DORSEY HALL COMMUNITY POOL DRAINAGE AND STORMWATER MANAGEMENT CONTROL

DETAILS REVISIONS SCALE N.T.S ADVERTISED DATE CONTRACT NO. DESIGNED BY___ BW COUNTY HOWARD DRAWN BY BW HORIZONTAL SCALE N.T.S CHECKED BY N.T.S. VERTICAL SCALE F.A.P. NO. SW - 03 OF 03 DRAWING NO. SHEET NO. 3 OF 3 TTED: **DECEMBER 24, 2020** : PSD-D0000-7038_TASK 2

STRAUGHAN