

GENERAL NOTES ALL WORK SHALL BE PERFOMED IN ACCORDANCE

ON ALL SITE WITH DISTURBED AREAS IN EXCESS

OF 2 ACRES, APPROVAL OF THE DEPARTMENT OF

INSPECTIONS AND PERMITS SHALL BE REQUIRED ON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE

PROCEEDING WITH ANY OTHER EARTH DISTURBANCE

OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED

UNTIL THE INITIAL APPROVAL BY THE DEPARTMENT

APPROVAL SHALL BE REQUESTED ON FINAL

STABILIZATION OF ALL SITES WITH DISTURBED

AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL

ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE

OF COMPACTION OF 95% OF THE DRY UNIT WEIGHT

ALL CONCRETE FOR SITE WORK SHALL BE CLASS 2

CONCRETE AND SHALL BE IN ACCORDANCE WITH THE

MARYLAND STATE HIGHWAY ADMINISTRATION

STRUCTURES NOTED FOR REMOVAL SHALL BE

REMOVED ENTIRELY AND COMPLETELY. REMOVAL OF

UTILITIES OR MATERIALS THAT ARE BELOW GRADE SHALL HAVE THE SURFACE ABOVE RESTORED TO

ALL DISTURBED AREAS SHALL BE STABILIZED WITH

FOR DETAILS OF UPRIGHT SIGNS AND AREAS FOR

HANDICAPPED, SEE THE CODE OF MARYLAND

REGULATIONS 05-01-07 MARYLAND BUILDING CODE

PAVED AREAS AS PER DETAILS SHOWN ON THESE

THE CONTRACTOR SHALL OBTAIN THE NECESSARY

ALL UTILITIES ARE TO BE RETAINED UNLESS

THE CONTRACTOR SHALL REPAIR AND MAINTAIN

EXISTING SEDIMENT CONTROL DEVICES UNTIL ALL

AREAS WITHIN THE LIMIT OF CONSTRUCTION ARE

STABILIZED. AT THAT POINT, ALL SEDIMENT

CONTROL DEVICES SHALL BE REMOVED AND AREAS

THE MEASURES REQUIRED IN THE APPROVED

SEDIMENT CONTROL PLAN SHALL APPLY AS IF

CONTRACTOR SHALL CONTACT THE

DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTION AT (410) 313-1880 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.

BENCHMARK IS FIRST FLOOR OF COMMUNITY CENTER

MARKED OTHERWISE AND APPURTENANCES ARE TO BE

BUILDING PERMITS FOR CONSTRUCTION.

ADJUSTED TO FINISHED GRADE.

RESTORED AND STABILIZED.

BUILDING. ELEVATION = 379.34.

SHOWN ON THIS PLAN.

PERMANENT SEED AND MULCH IN ACCORDANCE WITH PLANS APPROVED BY THE HOWARD COUNTY

OF INSPECTIONS AND PERMITS IS GIVEN.

AS DETERMINED BY ASTM D-698.

MATCH ADJACENT GRADES.

FOR THE HANDICAPPED.

APPROVED DRAWINGS.

SPECIFICATION AS AMENDED TO DATE.

TOPO TAKEN FROM A SURVEY BY THE RBA GROUP,

WITH THE HOWARD COUNTY DESIGN MANUAL

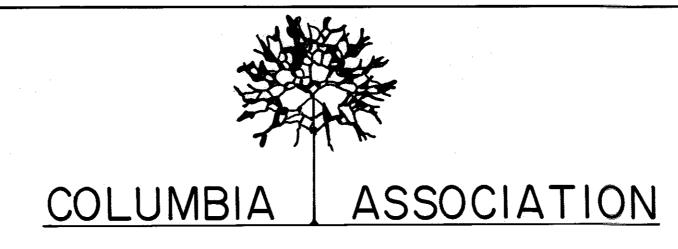
STANDARD SPECIFICATIONS AND DETAILS FOR

- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- THE DEVELOPER IS RESPONSIBLE FOR THE AQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE AQUISITION OF ALL EASEMENT, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- PRIOR TO START OF ANY CONSTRUCTION, CONTRACTOR SHALL STAKE OUT ALL CONSTRUCTION AND VERIFY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL)
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL USE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY CIVIL ENGINEER.
- ADJUSTMENTS TO THE SEQUENCE OF CONSTRUCTION SHALL BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO SUCH ADJUSTMENT.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS. NOTIFY ENGINEER IMMEDIATELY IF CONFLICTS ARISE.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CONTRACTOR TO ALSO COMPLY WITH SEDIMENT CONTROL NOTES.
- THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND NOTIFY THE ENGINEER.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 48 HOURS BEFORE STARTING WORK ON THESE DRAWINGS:

"MISS UTILITY" 1-(800) 257-7777 BALTIMORE GAS & ELECTRIC COMPANY (410) 234-

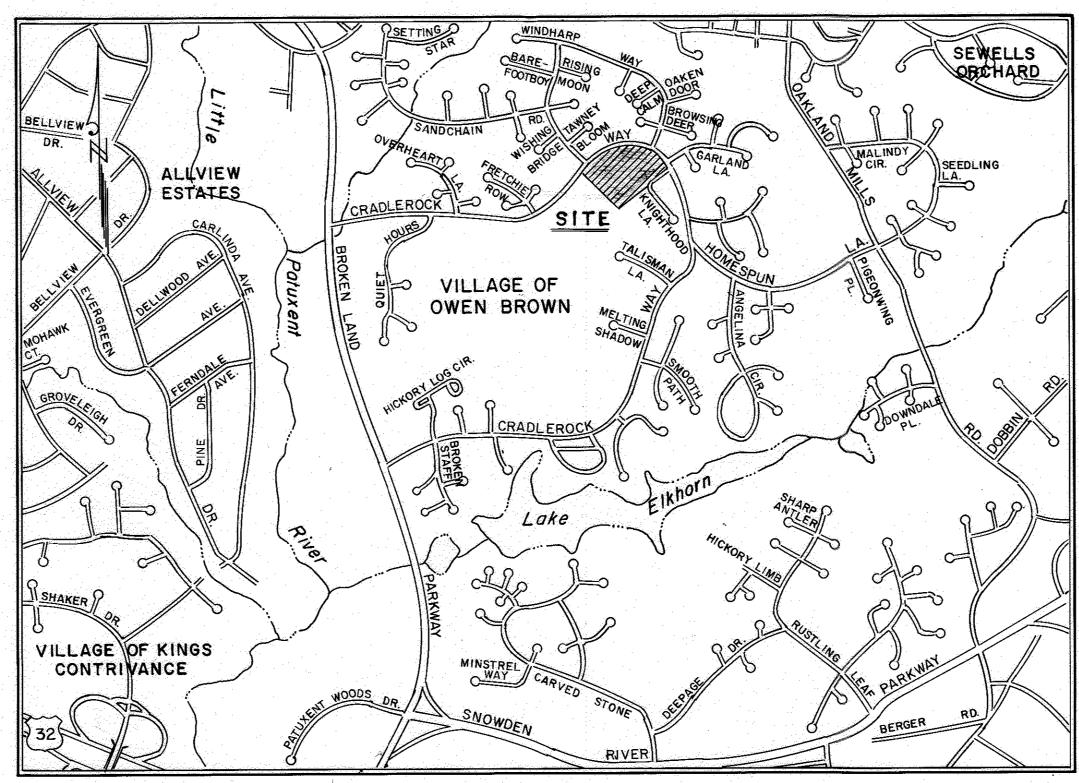
C & P TELEPHONE COMPANY (410) 393-3648

- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS AND PERMITS APPROVE WORK COMPLETED IN ACORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE



SITE DEVELOPMENT PLAN VILLAGE OF OWEN BROWN DASHER GREEN NEIGHBORHOOD CENTER PARKING LOT EXPANSION

HOWARD COUNTY, MARYLAND



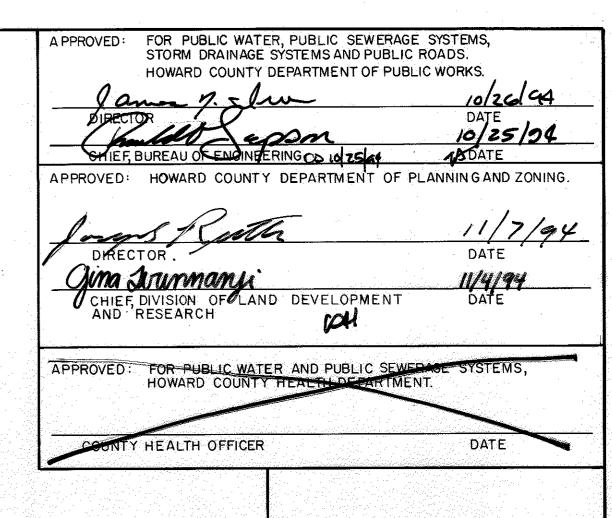
LOCATION MAP SCALE:1"=1.000'

DEVELOPER: COLUMBIA PARK AND RECREATION ASSOCIATION 10221 WINCOPIN CIRCLE COLUMBIA, MARYLAND 21044



PROFESSIONAL CERTIFICATION, I HERBEY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MAKILAND, LICENSE NO. 2147C.

NOTE: THE PURPOSE OF THIS REDUNE 19 TO ADD GORU DRAINAGE FROM 2 EXISTING UNDERGROUND SUM'S TO A NEARBY DRAINAGE UNE, THIS IS SHOWN ON SHEETS BAND 9



DATE 4:14.94

SITE TABULATIONS

- 1. AREA OF PARCEL: 5.176 AC+/- (225,466.56 SQ. FT.)
- 2. TOTAL PROPOSED LIMIT OF DISTURBANCE: 0.58 AC+/- (25,047 SQ. FT.)
- 3. PROPOSED ADDITIONAL BITUMINOUS PAVEMENT: 0.22AC+/- (9,441 SQ.FT.) 4. PROPOSED ADDITIONAL CONCRETE SIDEWALK: 1,008 SQ. FT. (168 L.F.)

SHEET INDEX

- 1. COVER SHEET
- 2. SITE LAYOUT PLAN
- 3. LANDSCAPING AND GRADING PLAN
- 4. SITE DETAILS
- 5. STORM DRAIN PROFILES 6. SEDIMENT CONTROL PLAN
- GEDIMENT CONTROL DETAILS 6. SITE IMPROVEMENT HAN AND SECUMENT/EROSION CONTROL HAN 9. STORM DRAIN PROFILES AND SECUMENT CONTROL HOTES & DETAILS
- SITE ANALYSIS
- 1. AREA OF PARCEL: 5.176 AC+/- (225,466.56 SQ. FT.) TOTAL PROPOSED LIMIT OF DISTURBANCE: 0.58AC+/- (25,047 SQ.FT.)
- 2. PRESENT ZONING: NEW TOWN-OPEN SPACE
- FDP NO. 127 A-VI, SDP NO. 87-72 AND 74-77C 3. EXISTING USE: NEIGHBORHOOD CENTER
- SCOPE OF PROPOSED WORK: PARKING LOT EXPANSION
- 4. EXISTING PARKING PROVIDED: 45 REQUIRED PARKING: 43 SPACES (300 persons + 7) REGULAR SPACES: 43 USPACE PER 7 PERSONS PERMITTED IN POOL BARRIER FREE SPACES: 2
- 5. PROPOSED PARKING: 67 (45 EXISTING PLUS 22 PROPOSED) REGULAR SPACES: 64 BARRIER FREE SPACES: 3
- BARRIER FREE PARKING TO BE CONSTRUCTED IN ACCORDANCE WITH "DESIGN OF BARRIER FREE FACILITIES" AND "THE MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED."
- 6. EXISTING BUILDING COVERAGE: 0.16 AC+/-; 3% OF GROSS AREA
- 7. PROPOSED TOTAL OF PARKING LOT AND PAVED AREA: 1.31 AC+/-; 25% OF
- 8. TOTAL OF AREA WITHOUT BUILDINGS, PARKING OR PAVED AREAS: 3.7/ AC+/-; 72% OF GROSS AREA



EXPIRATION DATE: LULY 14, 2017.

	ADDRE	SS CHAR	T
BUILDING	s	FREET ADDR	≣SS
LOT 64	6800 CRA	DLEROCK W	AY ,
SUBDIVISION VILLAGE OWEN BR	OF	SECTION//	REA LOT/PARCEL -64
PLAT P.B.27 F.45	BLOCK ZONE I5, I6 OS	TAX/ZONE MAPE 36	LEC.DIST CENSUS TO 6067.02
WATER COD	E		9

OWNER/DEVELOPER

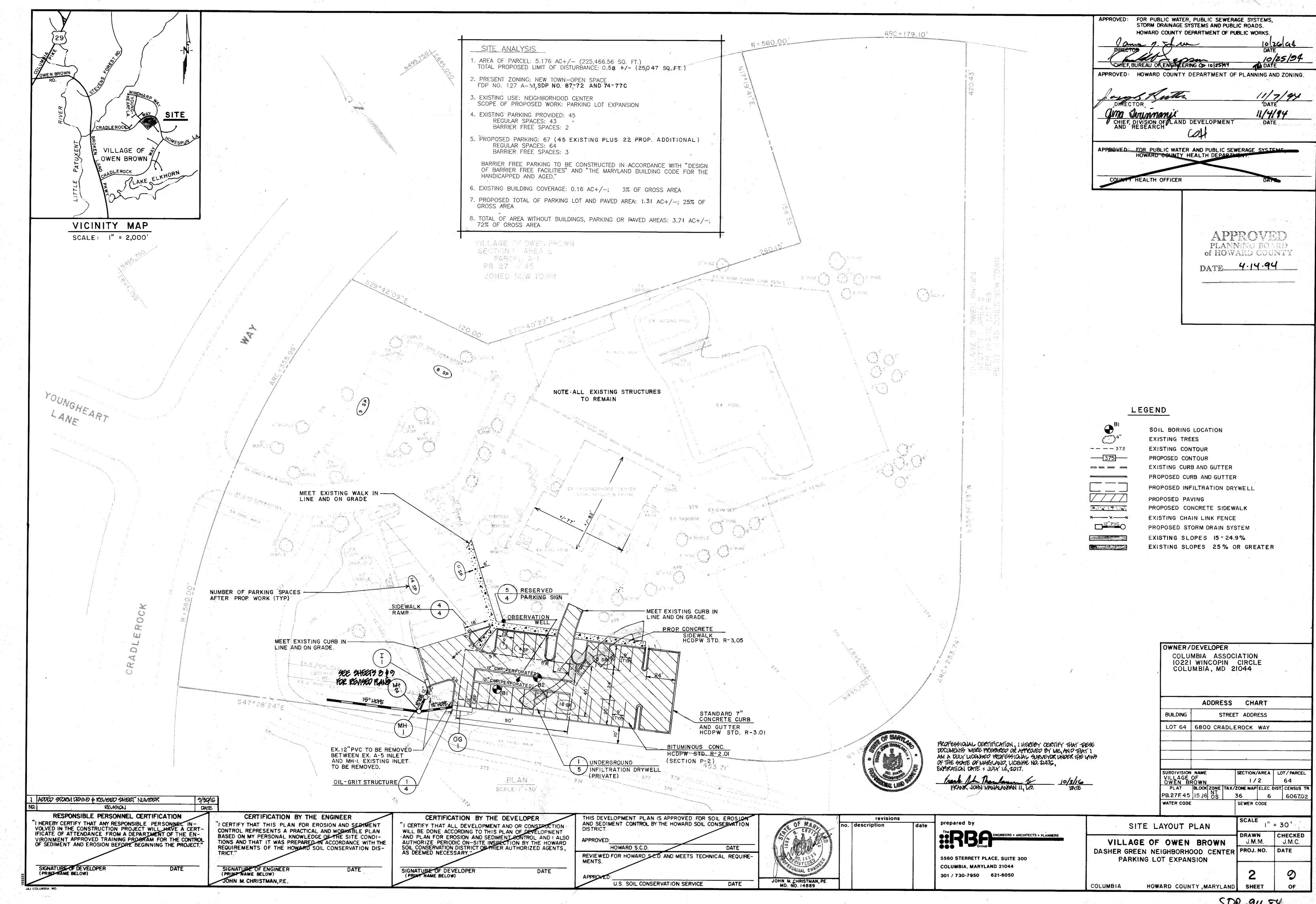
COLUMBIA ASSOCIATION

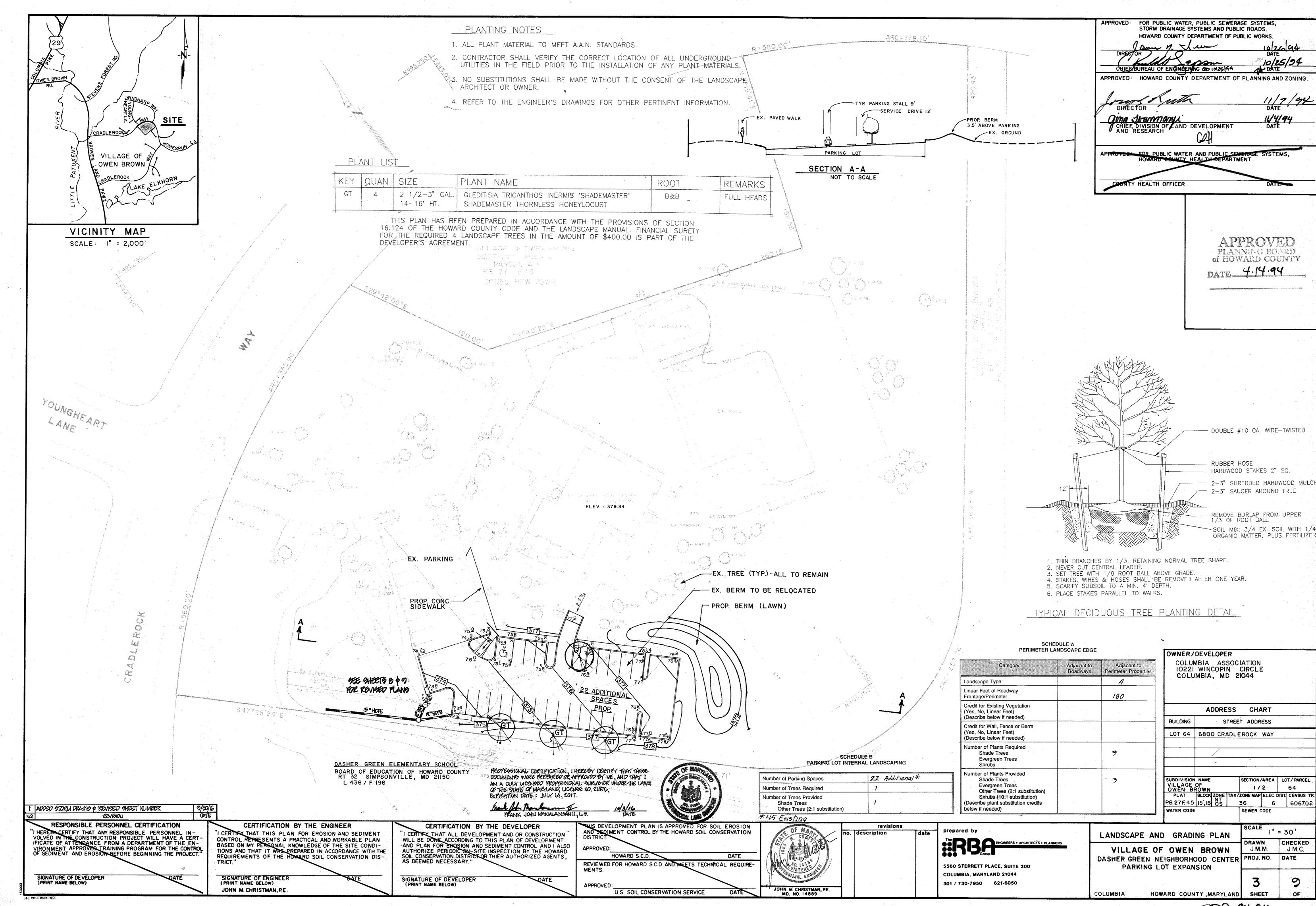
10221 WINCOPIN CIRCLE

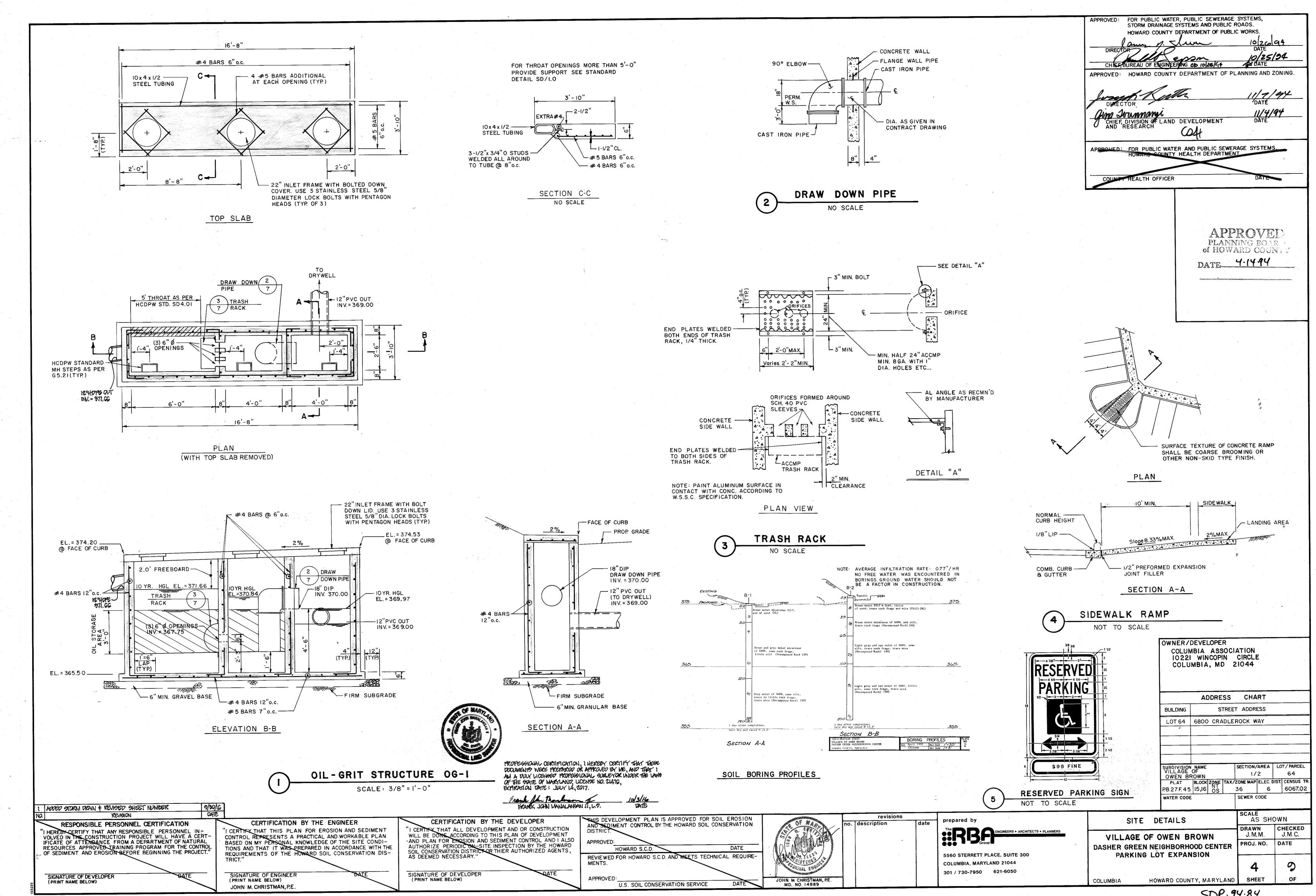
COLUMBIA. MD 21044

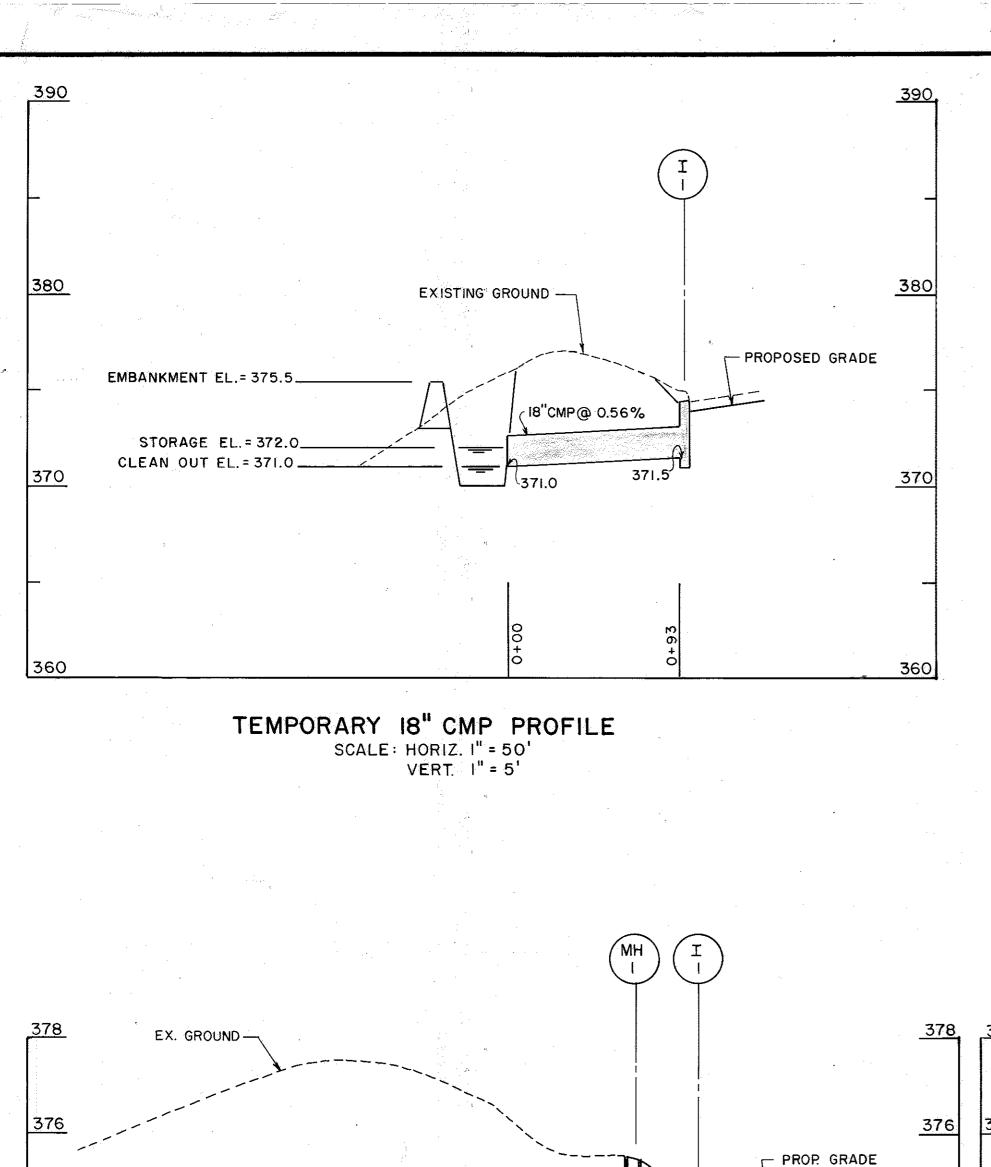
ENGINEERS ARCHITECTS PLANNERS 5560 STERRETT PLACE, SUITE 300, COLUMBIA, MD 21044 (410)730-7950

REVIGED SHEET INDEX & REVIGED SHEET NUMBER

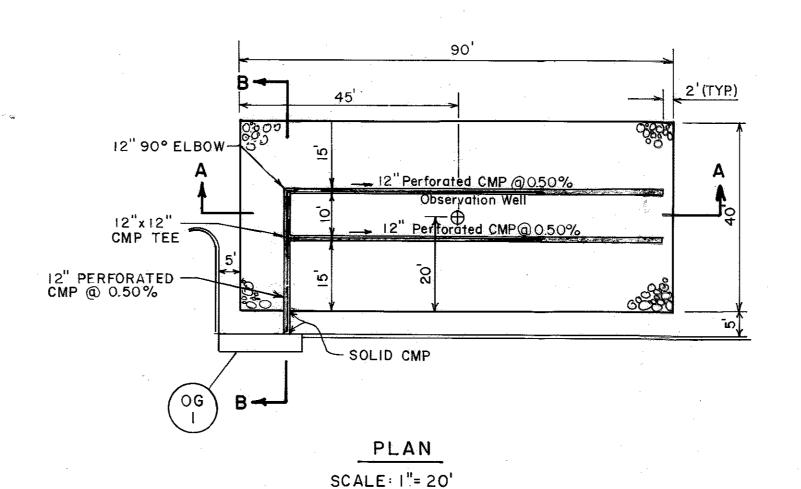








STRUCTURE SCHEDULE							
NO. TYPE	TVDC	TOP ELEV.		INVERT		DIAMETER	REMARKS
	rife	UPPER	LOWER	IN	OUT	DIAMETER	REMARKS
I-I	A-5 INLET	374.48	374.40		371.27		HCDPW STD. SD 4.01
OG-I	OIL/GRIT SEPARATOR	374.53	374.20	_	369:00		SPECIAL DESIGN-SEE SHEET 4
MH-L	PRECAST MANHOLE	375.50		371.20	370.6±	48"	HCDPW STD. G5.12
	÷						



PIPE SCHEDULE					
SIZE	TYPE	QUANTITY (ft)			
12"	CMP 16 GAUGE	5 *			
12"	CMP 16 GAUGE	181**			
12"	CMP 90° ELBOW	ı			
12"x12"	CMP TEE	ı			
12"	CMP CAP	2			
6"	CMP 16 GAUGE	4* 8.4.5**			

* SOLID

** PERFORATED

Construction Specifications

A dry well shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

Dry Well Preparation

Excavate the dry well to the design dimensions. Excavated materials shall be placed away from the excavated sides to enhance wall stability. Large tree roots shall be trimmed flush with the sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the dry well shall be roughened where sheared and sealed by heavy equipment.

Fabric Laydown

The filter fabric roll shall be cut to the proper width prior to installation. The cut width must include sufficient material to conform to well perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the well and unroll a sufficient length to allow placement of the fabric down into the well. Stones or other anchoring objects should be placed on the fabric at the edge of the well to keep the lined well open during windy periods. When overlaps are required between rolls, the upstream roll shall lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or the fabric conforms to the excavation surface during aggregate placement and compaction.

Aggregate Placement and Compaction

Drainage aggregate shall be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping and fabric

Overlapping and Covering

EX. GROUND

Following aggregate placement, the fabric previously weighted by stones should be folded over the aggregate to form a 6' minimum longitudinal lap. The desired fill soil should be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

Contamination

Care shall be exercised to prevent natural fill soils from intermixing with the drainage aggregate. All contaminated aggregate shall be removed and replaced with uncontaminated aggregate.

Volds Behind Fabric

Volds can be created between the fabric and excavation sides and should be avoided. Removing boulders or other obstacles from the trench walls is one source of such volds. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

Unstable Excavation Sides

Vertically excavated trench walls may be difficult to maintain in areas where the soil moisture is high or where soft cohesive or cohesionless soils predominate. These conditions may require laying back of the side slopes to maintain stability; trapezoldal rather than rectangular cross sections may result.

Foundation Protection

Dry wells 3 or more feet deep shall be located at least 10 feet down gradient from foundation walls.

Observation Well

An observation well shall be installed in every dry well. The observation well will serve two primary functions: 1) It will indicate how quickly the trench dewaters following a storm, and 2) It will provide a method of observing how quickly the dry well fills up with sitt and thus requires maintenance cleanout.

The observation well should consist of perforated PVC pipe, 6 inches in diameter. It should be located in the center of the structure and be constructed flush with the ground elevation of the structure. The top of the well shall be capped to discourage vandalism and tampering. The depth of the well at the time of installation should be clearly marked on the well cap.

Maintenance X

Dry wells shall be designed to minimize maintenance. However, it is recognized that all infiltration facilities are subject to clogging by sediment, oil, grease, grit and other debris. Oil and grit separators should be cleaned periodically to insure these pollutants do not enter the infiltration dry wells. In addition, the performance and longevity of these structures is not well documented. Consequently, a monitoring observation well is required for all infiltration strictures.

The observation well should be monitored periodically. For the first year after completion of construction, the well should be monitored on a quarterly basis and after every large storm. It is recommended that a log book be maintained indication the rate at which the facility dewaters after large storms and the depth of the well for each observation. Once the performance characteristics of the structure have been verified, the monitoring schedule can be reduced to an annual basis, unless the performance data indicate that a more frequent schedule is required.

* OIL GRIT SEPARATOR SHALL BE CLEANED EVERY THREE MONTHS. PUMP ALL CHAMBERS DRY AND CLEAN THOROUGHLY. EFFLUENT SHALL BE DISCHARGED IN AN APPROVED SANITARY SEWER.

OWNER SHALL MONITOR DRY WELL PERFORMANCE QUARTERLY AND AFTER EVERY RAINSTORM FOR THE FIRST YEAR AFTER INSTALLIATION, A LOG SHALL BE KEPT TO DETERMINE THE DRAW DOWN RATE AND PER-FORMANCE CHARACTERISTICS. MONITOR WELL ANNUALLY THEREAFTER UNLESS DATA INDICATES OTHERWISE.

OWNER/DEVELOPER COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE COLUMBIA, MD 21044

FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,

HOWARD COUNTY HEALTH DEPARTMENT

PLANNING BOARD

CHIEF, DIVISION OF LAND DEVELOPMENT

ADDRESS CHART BUILDING STREET ADDRESS

COLUMBIA

LOT64 6800 CRADLEROCK WAY

SUBDIVISION NAME SECTION/AREA LOT/PARCEL VILLAGE OF 1/2 64

OWEN BROWN 1/2 64

PLAT BLOCK ZONE TAX/ZONE MAP ELEC. DIST. CENSUS TO PB.27 F.45 15,16 OS 36 6 6067.02 SEWER CODE

SCALE

STORM DRAIN PROFILES VILLAGE OF OWEN BROWN

J. M. M. J.M.C. PROJ. NO. DATE DASHER GREEN NEIGHBORHOOD CENTER PARKING LOT EXPANSION

OBSERVATION WELL CAP ---WITH DEPTH CLEARLY MARKED - SOIL BORING B-2 EX. GROUND PROP GRADE -EX. 12" PVC -12"CMP @ 1.00% SOIL BORING B-I -- MIRAFI 700-X ON--12" CMP @ 0.50% SOLID 6" CMP EX. 6"PERFORATED PIPE-_ELEV=371.00 -DUAL 12" CMP (PERFORATED PIPE) EX. INFILTRATION DRYWELL-REMOVE EX. 12" PVC UPSLOPE OF UPSLOPE OF MANHOLE MANHOLE INVERT = 370.6± INV. = 368.00 -INV = 368 85 i 368 368 12" CAP-/ PERFORATED-6"CMP INV. = 368.90 INV.= 368.46- $Q_{10} = 2.6 cfs$ & 368.5l ELEV. = 367.00 6" CLEAN SAND-6" CLEAN SAND INV. 365.50 -FOOTPLATE -1-1/2" TO 3" Ø -MIRAFI 700-CLEAN STONE ON SIDES-

CERTIFICATION BY THE DEVELOPER

WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT

SIGNATURE OF DEVELOPER

(PRINT NAME BELOW)

I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION

STORM DRAIN PROFILE SECTION B-B SCALE: HORIZ. I" = 20' VERT. I" = 2'

CERTIFICATION BY THE ENGINEER

SIGNATURE OF ENGINEER

JOHN M. CHRISTMAN, P.E.

(PRINT NAME BELOW)

CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT

CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN
BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE
REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DIS-

ELEVATION A-A

INFILTRATION DRYWELL NO. I SCALE: HORIZ. I" = 20' VERT. I" = 2'

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THIER AUTHORIZED AGENTS, AS DEEMED NECESSARY." APPROVED: HOWARD S.C.D. REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIRE-MENTS.

U.S. SOIL CONSERVATION SERVICE

JOHN M. CHRISTMAN, PE. MD. NO. 14889

description

prepared by date **COLUMBIA, MARYLAND 21044**

360

RBG ENGINEERS • ARCHITECTS • PLANNERS 5560 STERRETT PLACE, SUITE 300

OF THE STATE OF MAKYLAND, LICENSE NO. 21476.

EXPIRATION DATE: JULY 14, 2017.

301 / 730-7950 621-6050

PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SUBJECTOR LINDER THE LAWS

SHEET HOWARD COUNTY, MARYLAND

SDP . 14.84

SIGNATURE OF DEVELOPER

ADDED STORM DRAINS & REVISED SHEET NUMBER

RESPONSIBLE PERSONNEL CERTIFICATION

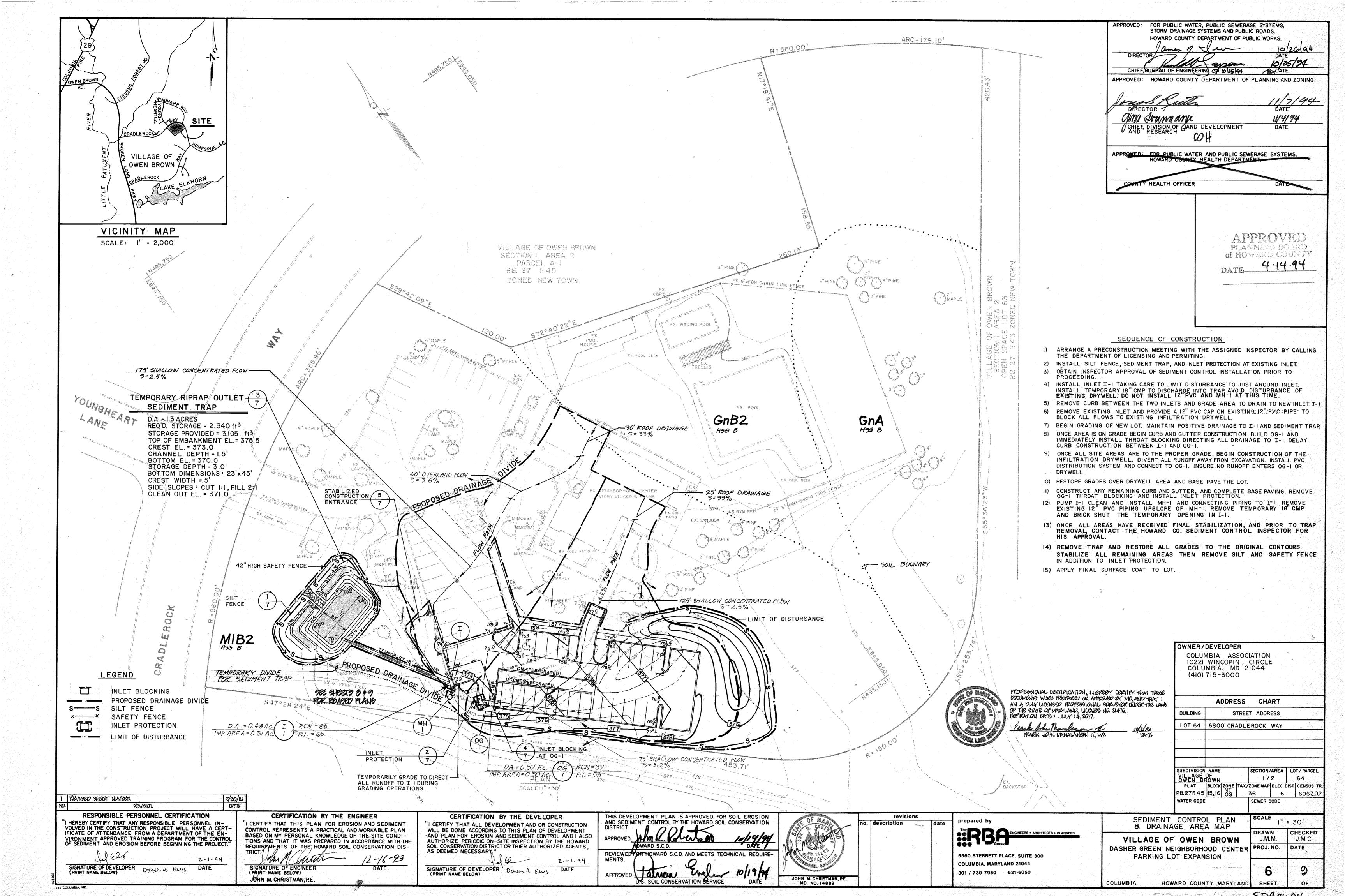
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL IN-VOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERT-IFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

9/30/16 DATE

DRAWN

AS SHOWN

CHECKED



SEDIMENT AND EROSION CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (3/3-/855)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED. ACCORDING TO THE PROVISIONS TO THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: A) SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND B) FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR. REFER TO \$1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL" FOR THE STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT, CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND
- THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE— SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL. DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS.REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP 62.01 OR
- 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR JUST CONTROL ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE
- APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE. 12. ANY DISTURBED EARTH LEFT IDLE FOR PERIODS EXCEEDING 30 DAYS SHALL BE STABILIZED
- 13. AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED
- 14. THE SECTIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK.
- 15. THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS APPERTAINING TO ENVIRONMENTAL ISSUES.
- 16. AT THIS TIME, WE BELIEVE THAT SECTIONS 404 OR 401 OF THE CLEAN WATER ACT DO NOT
- 17. ALL SEDIMENT TRAPS/BASINS MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I. CHAPTER 12, OF THE HOWARD CO. DESIGN MANUAL, STORM DRAIN-
- 18. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORK DAY, WHICHEVER IS SHORTER.

TEMPORARY AND PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCHAG OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENOMENTS: APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/100 SQ. FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES BEET OR HIGHER, US 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES: APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE CLOVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER

ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES. DULES.

1. PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING. APPLY 400 LB. PER ACRE 30-0-0 UREAFORM

FERTILIZER (9 LBS/1000 SQ. FT.) 2. ACCEPTABLE — APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION: (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

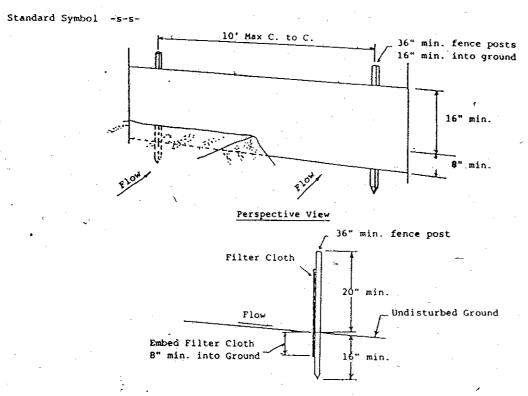
MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER,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

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND

SITE ANALYSIS FOR SEDIMENT AND EROSION CONTROL

TOTAL AREA OF SITE 5.176 AC. AREA DISTURBED: 0.58 AC. +/-AREA TO BE ROOFED OR PAVED: 1.47 AC.+/-AREA TO BE VEGETATIVELY STABILIZED: 0.37 AC.+/-TOTAL CUT: 730 CU YD +/TOTAL FILL: 95 CU YD +/-

Silt Fence

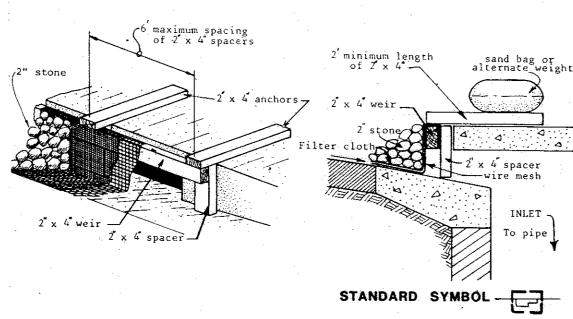


Silt Fence Construction Specifications

- 1. Silt fences must be embedded, or keyed in, at least 8 inches into the ground. Laying the lower edge of the filter fabric on the ground and covering it with soil is not an acceptable method of keying in. The key-in trench can be excavated by hand or by ditching equipment. After the silt fence is constructed, the trench must be backfilled
- 2. Fence posts must be: a. at least 36 inches long, and
- b. have a cross sectional area of at least 3 square inches if wooden, or c. weigh at least I pound per linear foot if steel T or U type, and d. on 10 foot maximum centers, and
- e. driven at least 16 inches into the ground.
- The filter fabric must be fastened securely to the fence posts. When two sections of filter fabric are joined together, the joint must occur at a fence post. The ends of the filter fabric should be overlapped by at least 6 inches, folded, and fastened to the sence post so that no gaps in the sence occur. Manufacturer's recommendations for joining fabric sections maybe followed as long as the resulting joint does not create gaps in the silt fence.
- Silt fence must be located along the contours. 6. Silt fences must be inspected periodically and after each rain event and maintenance performed as necessary.

SILT FENCE DETAIL NOT TO SCALE

CURB INLET PROTECTION DETAIL



Construction Specifications

I. Materials

- Wooden frame is to be constructed of 2" x 4" construction grade
- B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
- C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, EOS, 40-85, to allow sufficient passage of water and removal of sediment.
- 4. Stone is to be 2" in size and clean, since fines would clog the

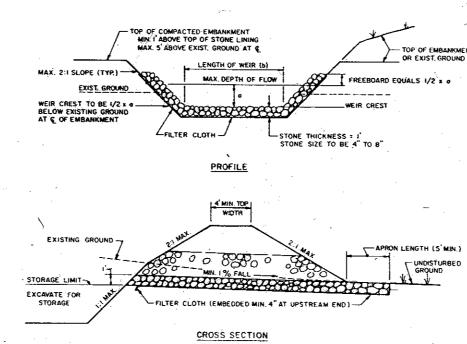
B. Curb Inlet Protection.

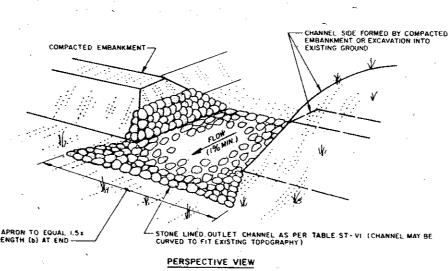
- 1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4,) to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.
- 2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
- Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- 5. The assembly shall be placed so that the end spacers are a minimum l' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- 7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- 8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

CURB INLET PROTECTION DETAIL

NOT TO SCALE

RIPRAP OUTLET SEDIMENT TRAP ST-VI





CONSTRUCTION SPECIFICATIONS FOR ST-VI

- 1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- 3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter
- 4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- 5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- 6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- 7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- when the sediment has accumulated to 1/2 the design depth of the trap Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- 9. The structure shall be inspected after each rain and repaired as needed.
- 10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized. 11. The structure shall be removed and the area stabilized when the drainage
- area has been properly stabilized

12. Drainage area for this practice is limited to 15 acres or less.

RIPRAP OUTLET SEDIMENT TRAP DETAIL

NOT TO SCALE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Reviewed for Howard

Signature

meets Technical Requirement:

Holina Yola Date 10/19

U.S. Soil Conservation Service





STABILIZED CONSTRUCTION ENTRANCE



propessional certification, lhereby certify that these DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR WIDER THE LAWS OF THE SPATE OF MAKYLAND, LICENSE NO. 2147G.

FRANK JOHN MANALANSAN 11, U.S.

prepared by

STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. APPROVED: -CONCRETE CURB CHIEF DIVISION OF LAND DEVELOPMENT APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,

PLANNING BOARD of HOWARD COUNTY

STANDARD SYMBOL

STANDARD CONSTRUCTION

BRICK SHUT THROAT TO

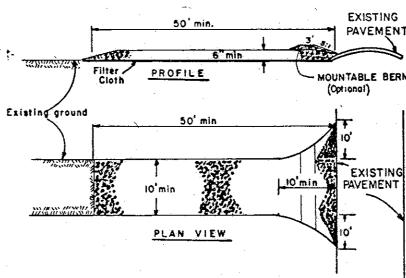
PROVIDE A WATERTIGHT

SEAL. ALLOW WATER TO

BYPASS TO TRAP

JOINTS.

BRICK - STANDARD MORTAR



SECTION VIEW

TEMPORARY INLET BLOCKING DETAIL

-INLET THROAT

ISOMETRIC VIEW

6" (STD. THROAT

CONSTRUCTION SPECIFICATIONS

- 1. Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent. Length - As required, but not less than 50 feet (except on a single resi-
- dence lot where a 30 foot minimum length would apply).
- . Thickness Not less than six (6) inches.
- points where ingress or egress occurs. 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- 6. Surface Water All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 7. Maintenance The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All
- sediment spilled, dropped, washed or tracked onto public rights-of-way mus be removed immediately. 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto
- public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping

. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing
College Park, Md.	l:	SCE-I

EXPIRATION DATE: JULY 14, 2017.

Each John Marlow I

OWNER/DEVELOPER COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE COLUMBIA, MD 21044

ADDRESS CHART BUILDING STREET ADDRESS LOT 64 6800 CRADLEROCK WAY

SECTION/AREA | LOT / PARCEI 1/2 OWEN BROWN PLAT BLOCK ZONE 36 SEWER CODE

TAX/ZONE MAP ELEC. DIST. CENSUS 1 PB. 27 F. 45 | 15, 16 | 6 | 6067.02 WATER CODE SCALE

HOWARD COUNTY MARYLAND

REVISED SHEET NUMBER

SIGNATURE OF DEVELOPER

(PRINT NAME BELOW)

REVISION RESPONSIBLE PERSONNEL CERTIFICATION

"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL IN-

VOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERT-IFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION REFORE BEGINNING THE PROJECT."

CERTIFICATION BY THE ENGINEER I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DIS-

SIGNATURE OF ENGINEER (PRINT NAME BELOW) JOHN M. CHRISTMAN, P.E.

CERTIFICATION BY THE DEVELOPER EX THAT ALL DEVELOPMENT AND OR CONSTRUCTION

WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THIER AUTHORIZED AGENTS, AS DEEMED NECESSARY."

SIGNATURE OF DEVELOPER (PRINT NAME BELOW)

DISTRIC APPROVED: HOWARD S.C.D. DATE REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIRE-MENTS. APPROVED

U.S. SOIL CONSERVATION SERVICE

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION

SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION

description

revisions

date

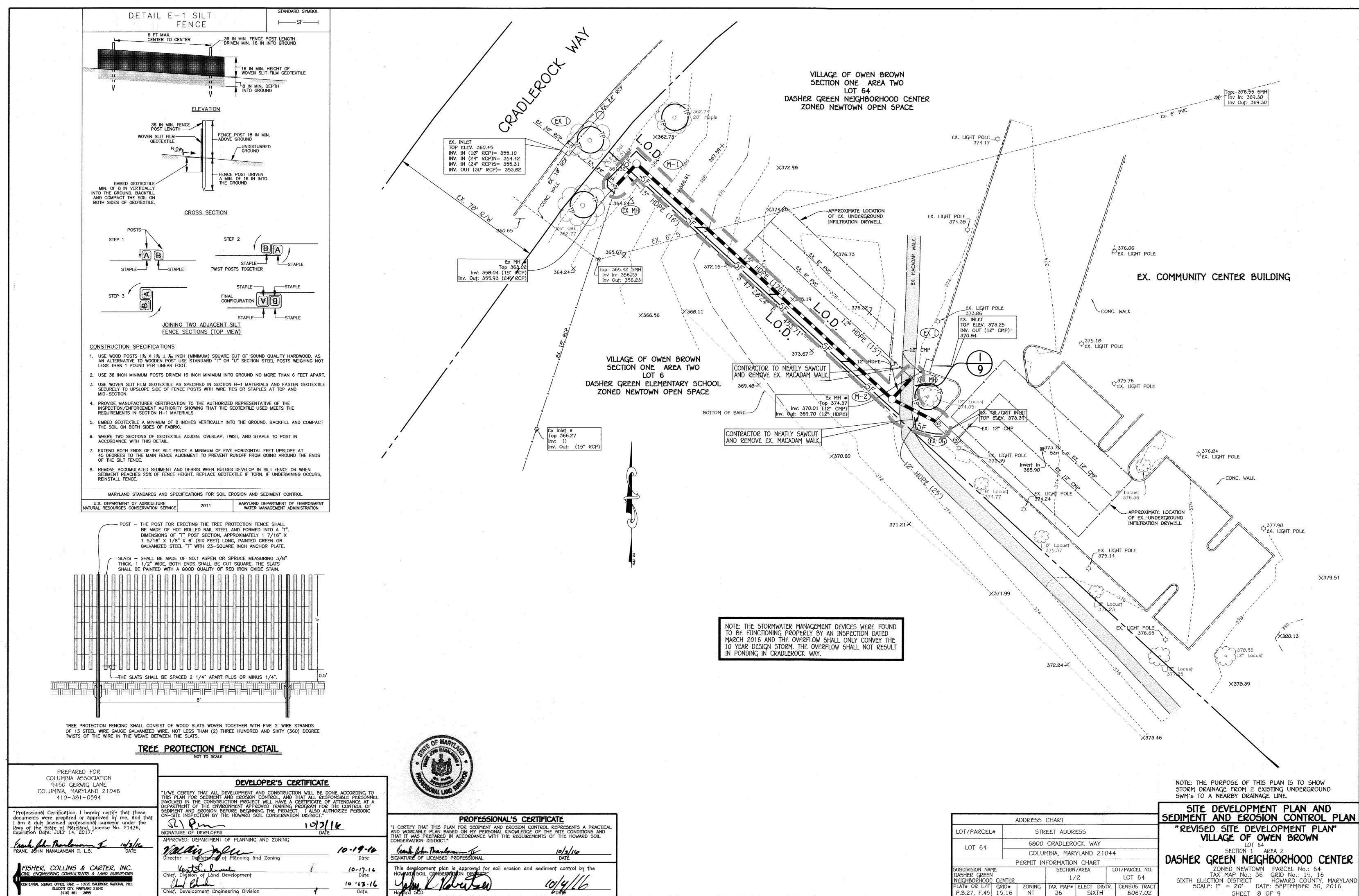
ENGINEERS • ARCHITECTS • PLANNERS 5560 STERRETT PLACE, SUITE 300 **COLUMBIA, MARYLAND 21044** 301 / 730-7950 621-6050

VILLAGE OF OWEN BROWN DASHER GREEN NEIGHBORHOOD CENTER PROJ. NO. DATE PARKING LOT EXPANSION

STOP.94.84

SEDIMENT CONTROL DETAILS AS SHOWN DRAWN CHECKED J.M.M. J.M.C.

SHEET



5DP-94-84

HORZ: I" = 20' VERT: I" = 2"

	STRUCTURE SCHEDULE										
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV.IN	INV.OUT	COORDINATES	WIDTH	TYPE	REMARKS			
M−1	PRIVATE	362.75	359.51 (15")	359.41 (15")	N 556,198.80 E 1,357,033.10	4'	STD. MANHOLE	G - 5.12			
M-2	PRIVATE	374.54	371.41 (12"), 371.31 (12")	371.06 (15")	N 556,079.54 E 1,357,163.19	4'	STD. MANHOLE	G - 5.12			

ASPHALTIC PAVING DETAIL 9 NO SCALE

HORZ: I" = 20"

VERT: 1" = 2"

BITUMINOUS SURFACE COURSE

IN 2-LAYERS: (TYPE SF)
1" TOPPING COURSE OVER
2" LEVELING COURSE

" GRANULAR SUBBASE

- APPROVED COMPACTED

SUB-GRADE

FORM OR SAW-CUT TO STRAIGHT EDGE

HOWARD SOIL CONSERVATION DISTRICT (H5CD)
STANDARD SEDIMENT CONTROL NOTES

1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1055 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES: A. PRIOR TO THE START OF EARTH DISTURBANCE

B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING,

C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT, D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.

OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO

2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.

4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).

5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.

TOTAL AREA OF SITE: 5.1 ACRES AREA DISTURBED: 0.06 ACRES AREA TO BE ROOFED OR PAVED: 0.00 ACRES AREA TO BE VEGETATIVELY STABILIZED: 0.06 ACRES _____ CU. YDS. TOTAL CUT: TOTAL FILL: OFFSITE WASTE/BORROW AREA LOCATION:

ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.

7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

6. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND A11 CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:

INSPECTION DATE

- INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT) NAME AND TITLE OF INSPECTOR
- WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
- · EVIDENCE OF SEDIMENT DISCHARGES
- IDENTIFICATION OF PLAN DEFICIENCIES IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
- IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
- . COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
- MONITORING/5AMPLING MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
- OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
- 9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.

10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION, MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.

11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE CID, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.

12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.

13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.

14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.

15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):

USE I AND IP MARCH 1 - JUNE 15
USE III AND IIIP OCTOBER 1 - APRIL 30

USE IV MARCH 1 - MAY 31

1. OBTAIN GRADING PERMIT. (1 DAY)

16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

SEQUENCE OF CONSTRUCTION

- 2. NOTIFY 'MISS UTILITY' AT 40 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION AT 410-313-1330 40 HOURS BEFORE STARTING WORK.
- 3. INSTALL ALL TREE PROTECTION FENCE FOR TREES AND SILT FENCE AS INDICATED ON THE PLAN (1/2 DAY).
- CONTRACTOR TO INSPECT AFTER EVERY RAINFALL, REPAIR OR REPLACE AS NECESSARY IF DAMAGED UNTIL COMPLETION OF
- 4. WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR BEGIN PIPE INSTALLATION. (3 DAYS)

ADDRESS CHART

STREET ADDRESS

PERMIT INFORMATION CHART

PLAT# OR L/F GRID# ZONING TAX MAP# ELECT. DISTR. CENSUS TRAC

. 36

6800 CRADLEROCK WAY

COLUMBIA, MARYLAND 21044

SECTION/AREA

SIXTH

LOT/PARCEL NO.

LOT 64

6067.02

LOT/PARCEL#

LOT 64

UBDIVISION NAME

<u>NEIGHBORHOOD CENTER</u>

P.B.27, F.45 15,16 NT

DASHER GREEN

- 5. INSTALL MACADAM SIDEWALK TO EXISTING LOCATION. (1/2 DAY)
- 6. FINE GRADE ALL AREAS, INSTALL PERMANENT SEEDING. (1/2 DAY)
- OBTAIN PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE SEDIMENT AND EROSION CONTROL DEVICES. THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (1/2 DAY)
- B. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.

SEQUENCE NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENENCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL EVENT AND ON A DAILY BASIS. REMOVE SEDIMENT FROM THE SILT FENCE WHEN SEDIMENT REACHES 25% OF THE FENCE HEIGHT.

> NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW STORM DRAINAGE PROFILES FROM 2 EXISTING UNDERGROUND 5WM'S TO A NEARBY DRAINAGE LINE.

STORM DRAIN PROFILES, SEDIMENT CONTROL NOTES AND DETAILS "REVISED SITE DEVELOPMENT PLAN" VILLAGE OF OWEN BROWN LOT 64

SECTION 1 AREA 2 DASHER GREEN NEIGHBORHOOD CENTER

SHEET 9 OF 9

ZONED NEWTOWN PARCEL No.: 64 TAX MAP No.: 36 GRID No.: 15, 16 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: SEPTEMBER 30, 2016

5DP-94-84

PREPARED FOR COLUMBIA ASSOCIATION 9450 GERWIG LANE COLUMBIA, MARYLAND 21046 410-381-0594

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional surveyor under the laws of the State of Maryland, License No. 21476, Expiration Date: JULY 14, 2017."

RANK JOHN MANALANSAN II, L.S. FISHER, COLLINS & CARTER, INC. TVIL ENGINEERING CONSULTANTS & LAND SURVEYORS SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." SIGNATURE OF DEVELOPER APPROVED: DEPARTMENT OF PLANNING AND ZONING 10-19-16

Chief, Development Engineering Division

SIGNATURE OF LICENSED PROFESSIONAL approved for soil erosion and sediment control by the

PROFESSIONAL'S CERTIFICATE "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL