The Contractor shall provide all labor materials and equipment, complete in place the water quality facility, as required.

The water quality facility shall be install to the lines and grades as indicated on the lines and grades as indicated on the site development plan drawings.

All materials and construction methods in installation of water quality facility shall conform to Standards and Specification for Infiltration Practices, State of Maryland, Department of the Environment, Sediment and Stormwater Administration. In the event of a conflict the more stringent criteria shall govern.

### EROSION AND SEDIMENT CONTROL MEASURES

The Contractor shall provide all labor, materials and equipment necessary to construct, complete in place the silt fence, inlet protection and stabilized construction entrance as required.

The sediment and erosion control measures shall be installed to the lines and grades as indicated on the site development plan drawings.

All materials (silt fence, lumber and stone) and construction methods in installation of sediment and erosion control measures shall conform to Maryland Standards and Specifications for Soil Erosion and Sediment Control, Soil Conservation Service - Water Resources Administration. In the event of a conflict, the more stringent criteria shall govern.

### 4-INCH PRIVATE SANITARY SEWER MAIN

The Contractor shall provide all labor, materials and equipment necessary to construct, complete in place, the private sanitary sewer main; including all excavation, backfill, sheeting, shoring, bracing and pumping as required.

The private sanitary sewer main shall be installed to the lines and grades as indicated on the site development plan drawings. The sewer main shall be installed to a point within five (5) feet of the face of the proposed building addition as indicated on the site development plans.

All materials (pipe, fittings, clean outs, plugs and associated appurtenances) and construction methods utilized in installation of the private sanitary sewer main shall conform to the Howard County Volume IV Design Manual: Standard Specifications and Details for Construction and the Howard County Plumbing Code. In the event of a conflict, the more stringent criteria shall govern.

Upon completion of installation of the private sanitary sewer main the entire line shall be tested in accordance with the applicable sections of the Howard County Plumbing Code.

### 6-INCH PRIVATE WATER SEWER MAIN

The Contractor shall provide all labor, materials and equipment necessary to construct, complete in place, the private water main; including all excavation, backfill, sheeting, shoring, bracing and pumping as required.

The private water main shall be installed to the lines and grades as indicated on the site development plan drawings. The water main shall be installed to a point within five (5) feet of the face of the proposed building addition as indicated on the site development plans.

All materials (pipe, fittings, plugs and associated appurten-ances) and construction methods utilized in installation of the private water main shall conform to the Howard County Volume IV Design Manual: Standard Specifications and Details for Construction and the Howard County Plumbing Code. In the event of a conflict, the more stringent criteria shall govern.

Upon completion of installation of the private water main the entire line shall be tested in accordance with the applicable sections of the Howard County Plumbing Code.

# DRY WELL

The contractor shall provide all labor materials and equipment necessary to construct, complete in place, the drywells, as required.

The dry wells shall be installed to the lines and grades as indicated on the site development place.

All materials (stone, filter fabric, sand, p.v.c. perforated pipe and splash block) and construction methods utilized in installation of dry well shall conform to the Standards and Specification for Infiltration Practices State of Maryland, Department of the Environment, Sediment and Stormwater Administration. In the event of a conflict, the more stringent criteria shall govern.

### TRENCH BEDDING

The Contractor shall provide all labor materials and equipment to construct complete in place the trench bedding for 4-inch private sanitary sewer as required.

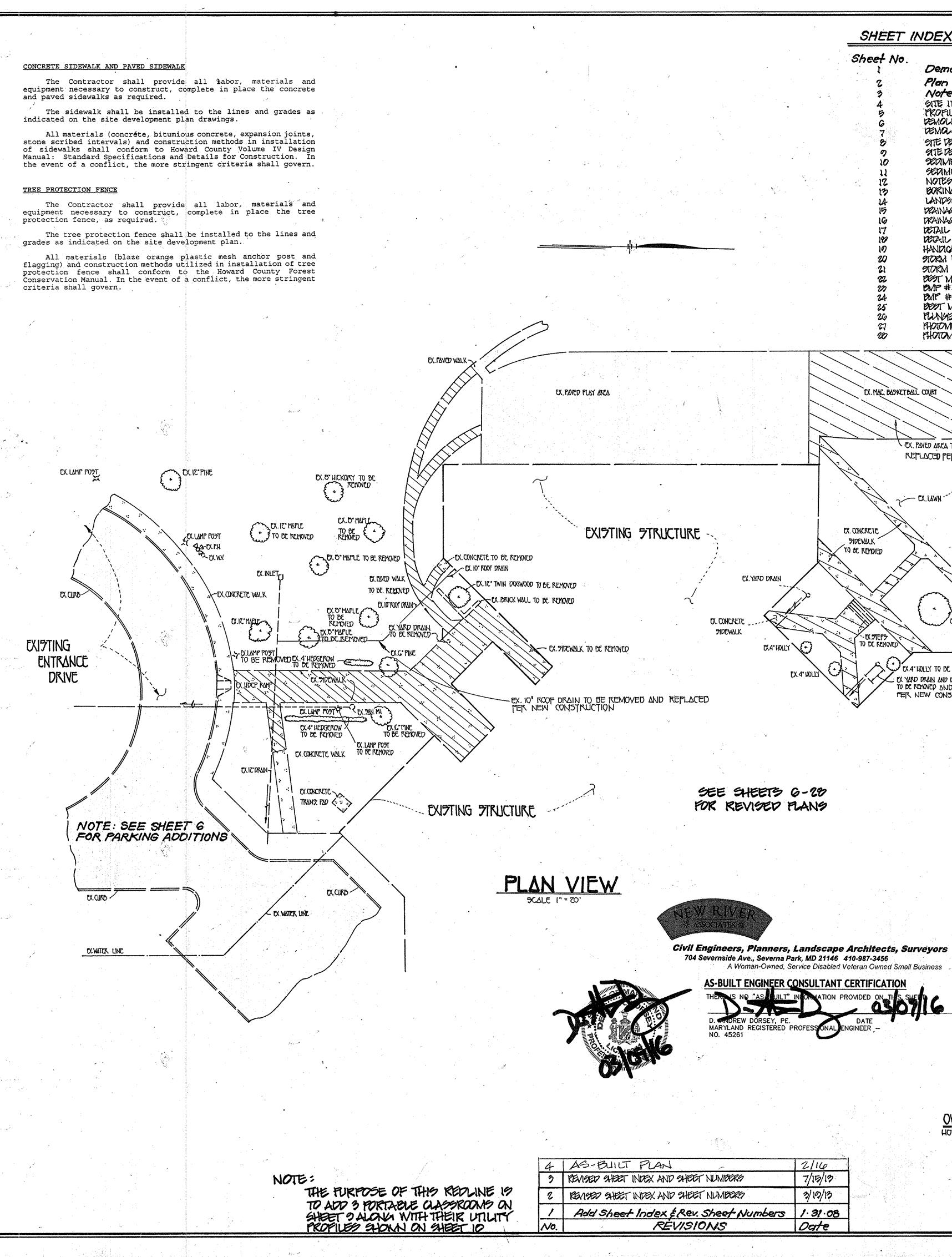
The trench bedding shall be installed to the lines and grades as indicated on the site development plan drawings.

All materials and construction methods in installation of trench bedding shall conform to Howard County Volume IV Design Manual: Standard Specifications and Details for Construction. In the event of a conflict the more string our criteria shall govern.

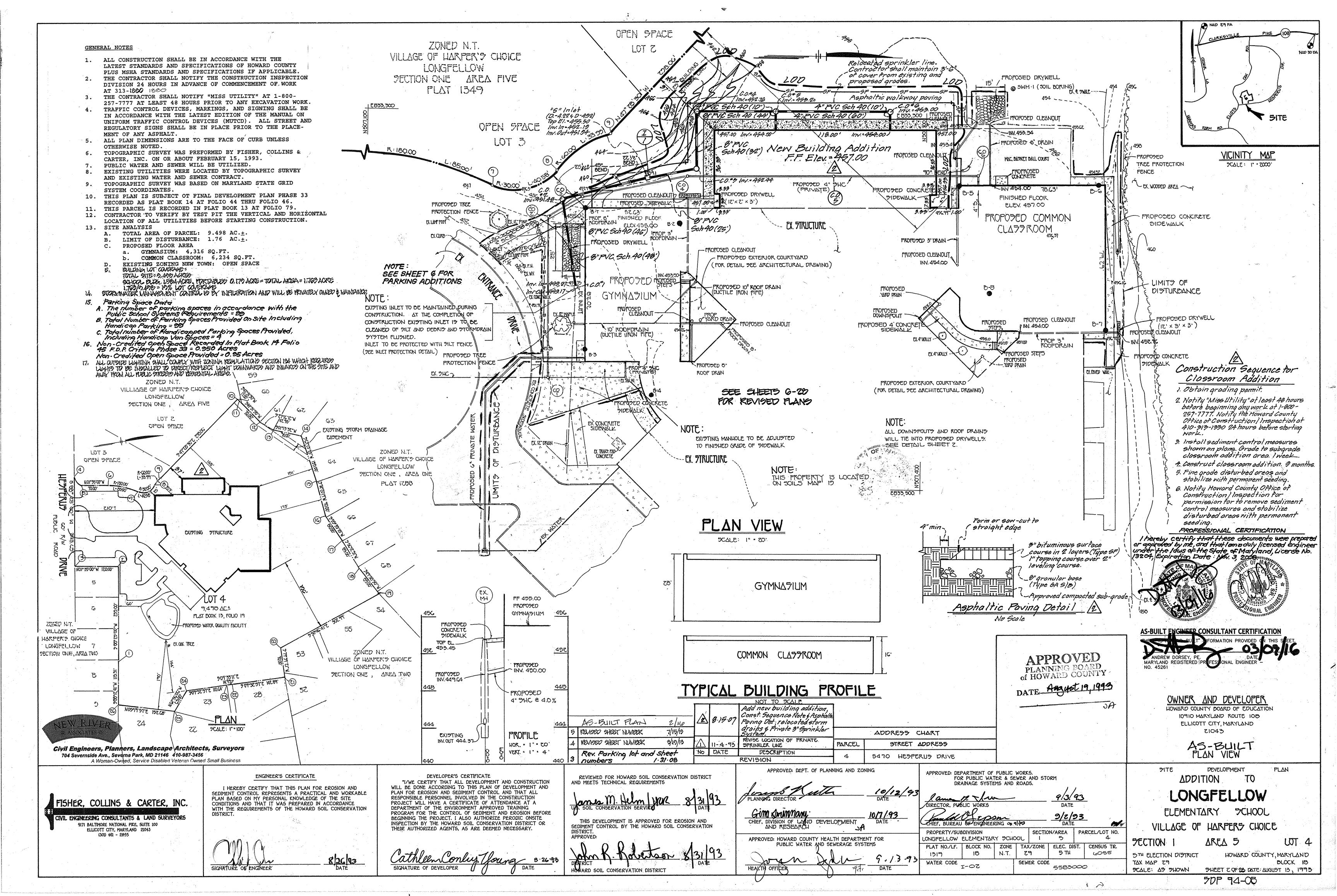
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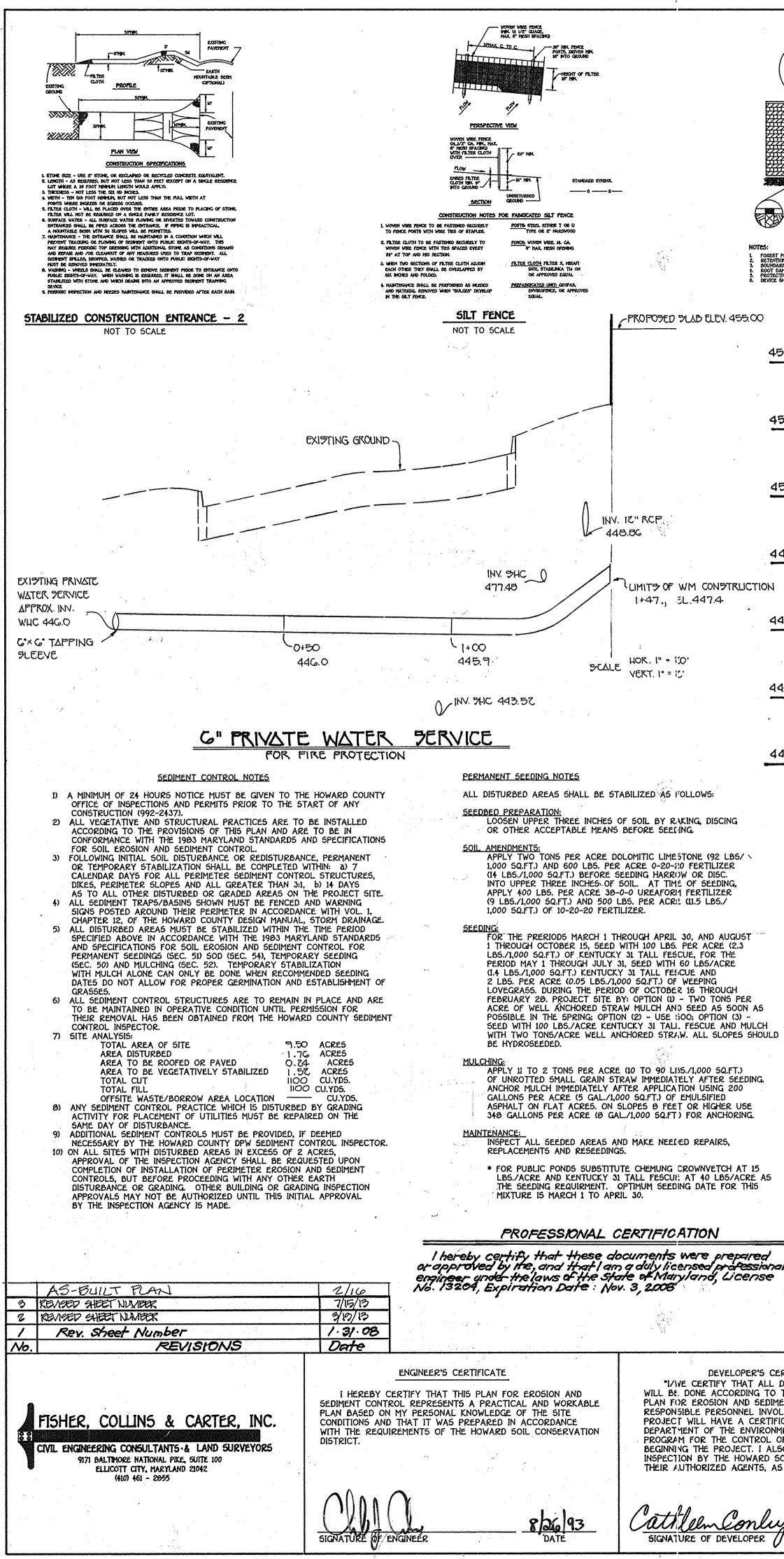
IVIL ENGINEERING CONSULTANT? + LAND SURVEYORS 7171 COLTIMORE NATIONAL FIKE, JUITE 100 ELLICOTT CITY, MARYLAND 21042. TELEFLIONE: (410) 461-0055

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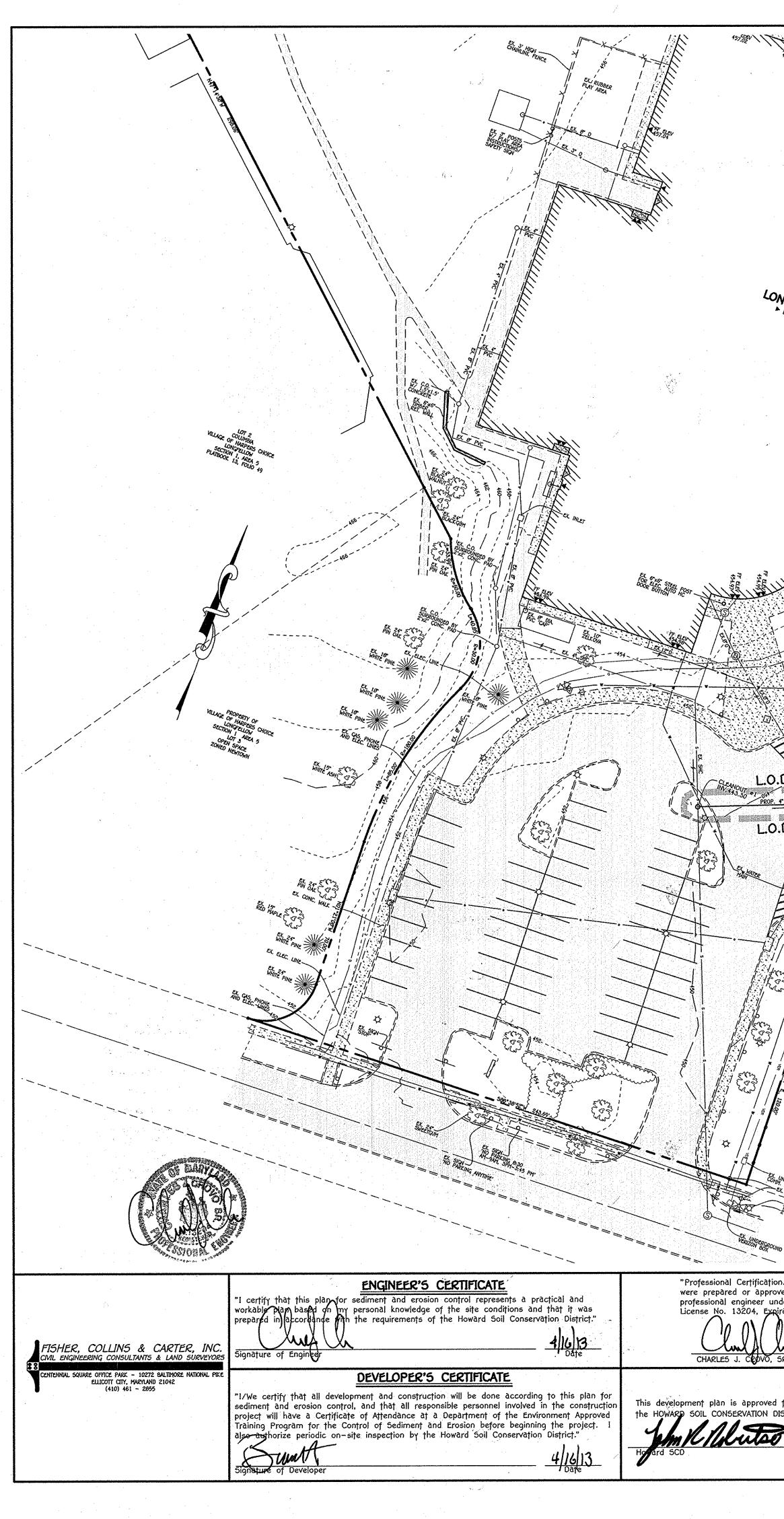
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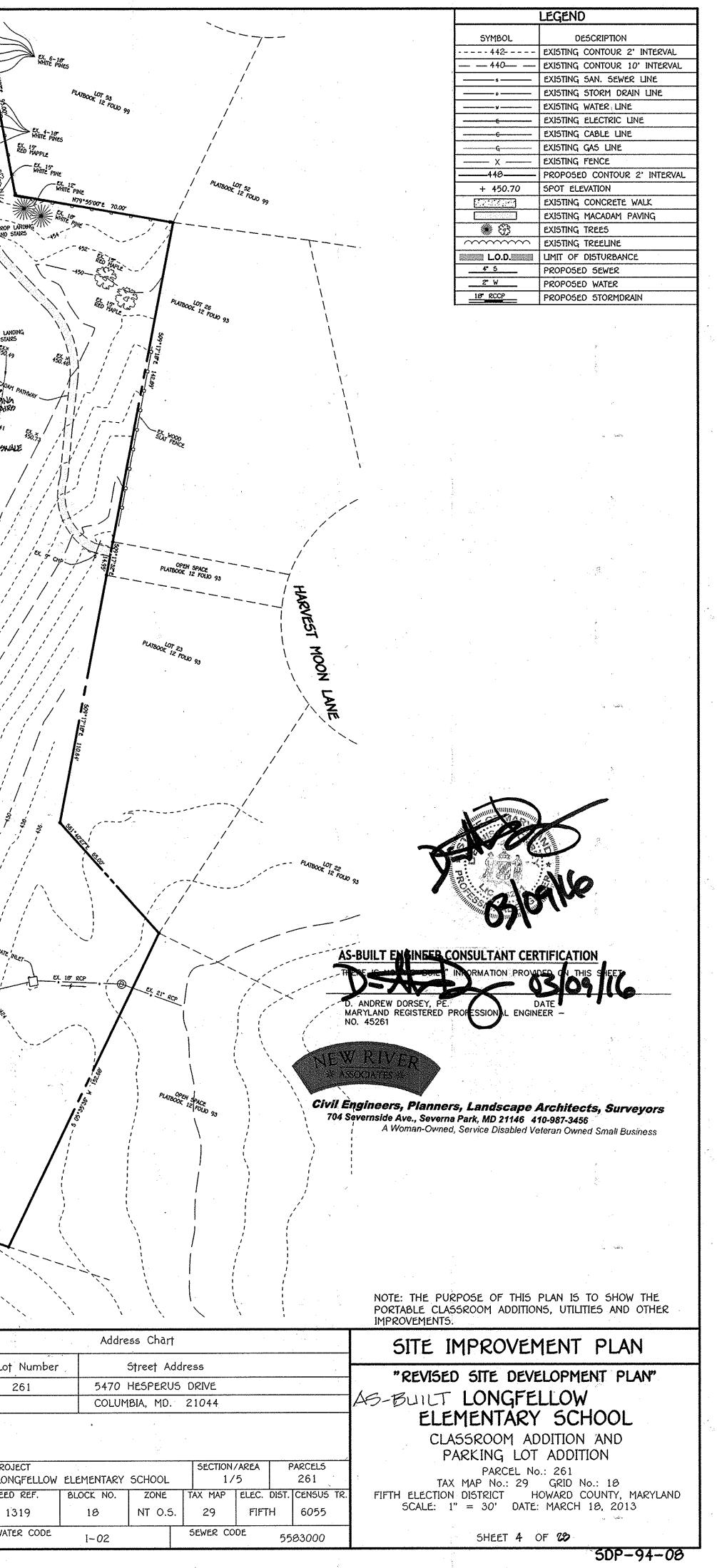
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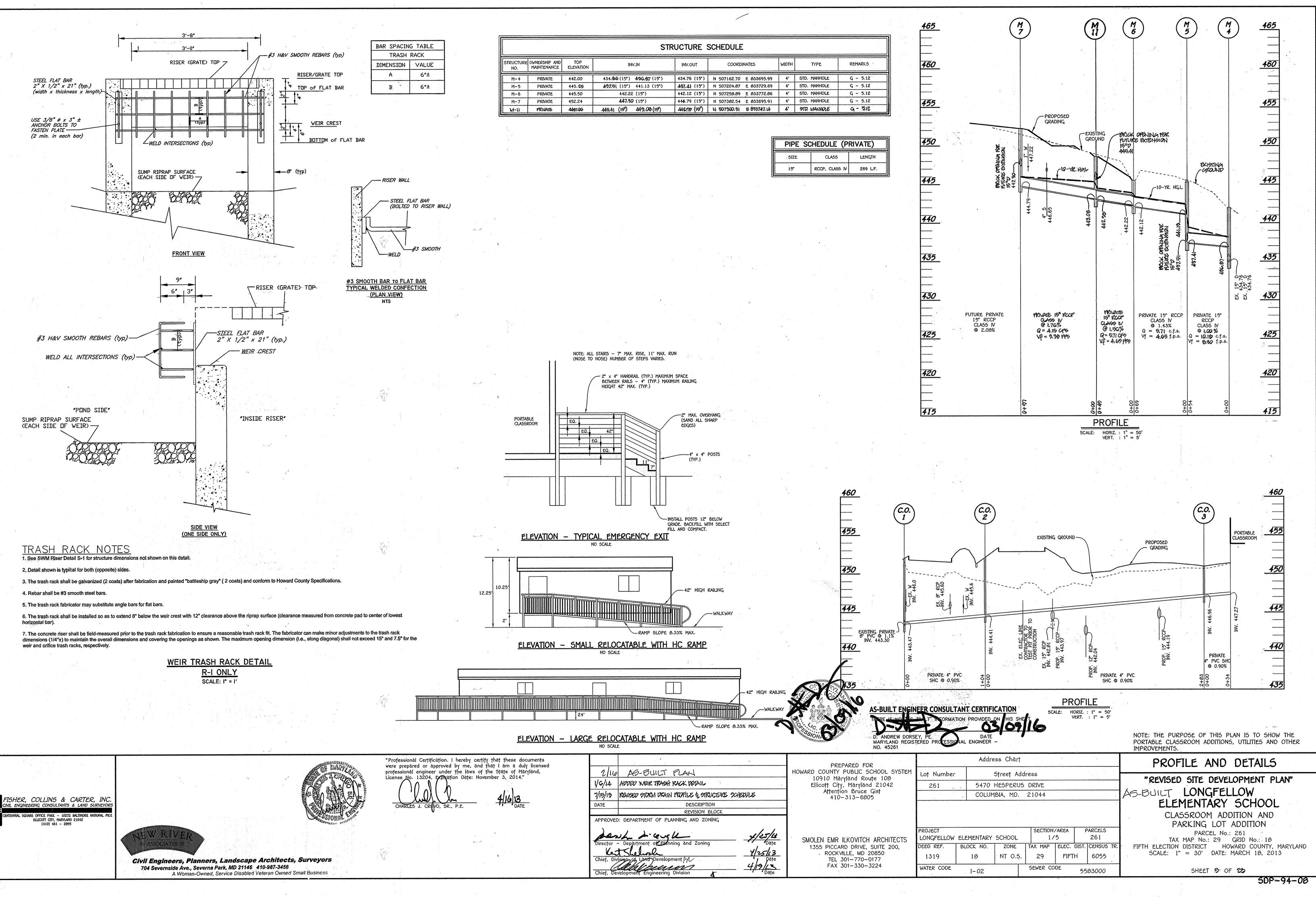
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Interest of Registration Ages Abouts the stated and FLAGED PRIOR TO INSTALLING DEVICE. The stands theoremus and t	3" PRIVATE SPRINKLER	SERVICE
<ul> <li>Drive 2 x 4 post 1' into ground at four corners of inlet.</li> <li>Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.</li> </ul>	RECTANGULAR OPENING	UNDERGROLIND PIPE, VALVES AND FITTINGS A: PIPE 1. CLASS 22, CEMENT MORTAR LINED GRAY IRON, AWWA C-IOL OR AWWA C-108 C-108 C. CLASS 51, CEMENT MORTAR LINED PUCTILE IRON AWWA C-151 B: MECHANICAL OR PUSH ON JOINTS: AWWA C-111
<ul> <li>52</li> <li>3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.</li> <li>4. Stretch filter cloth tightly over wire mesh, the cloth pust extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be</li> </ul>	Z" MIN.	BURCHARGE PIPE C: FITTINGS: AWWA C-110, 250 PSI. FOR GRAY IRON, 350 PSI. FOR DUCILE SPLASH BLOCK EX.GROUND 12" MIN.
5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.	BUILDING	PERFORATED P.VC. PIPE
<ul> <li>6. If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).</li> <li>7. This structure must be inspected frequently and the filter fabric replaced when clogged.</li> </ul>	FILTER AGGREGATE	FILTER AGGREGATE
44 NOT TO SCALE	C"SAND(MIN.)	DRYWELL CROSS SECTION
42 1. OBTAIN GRADING PERMIT.	@ COMMON CLAFFROOM	C GYMNAFIUM POSED DRYWELL FOR WATER QUALITY 25'(LENGTH)X 9: (WIDTH) X 2. (DEPTH)
<ul> <li>z. INSTALL TREE PROTECTION FENCE. (1 DAY)</li> <li>3. INSTALL SEDIMENT AND EROSION CONTROL DEVICE</li> <li>AS SHOWN ON PLAN. (2 DAYS)</li> <li>4. CLEAN AND GRUB SITE. (5 DAYS)</li> <li>5. ROUGH GRADE SITE. (2 DAYS)</li> <li>6. CONSTRUCT BUILDING. (120 TO IGO DAYS)</li> <li>7. CONSTRUCT FOND AND UTILITIES. (3 DAYS)</li> <li>7. CONSTRUCT FOND AND UTILITIES. AND FINE GRADE SITE. INSTALL</li> </ul>	BUILDING WALL RECTANGULAR OPENING BPLAGH BLOCK EX. PAVED PLAY AREA	APPROVED PLANNING BOARD of HOWARD COUNTY
8. CONSTRUCT STONE TRENCHES AND FINE GRADE SITE. INSTALL PERMANENT SEEDING. (5 DAYS) 9. REMOVE SEDIMENT CONTROL DEVISES AS PERMISSION IS GRANTED BY E/S INSPECTOR. (1 DAY) NEW RIVE.		TIFICATION ED O THIS SHIET
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456 NOTE: CONTRACTOR TO VERIFY THE EXISTING LOCATION OF ANY UNDERGROUND UTILITIES BEFORE CONSTRUCTION BEGINS.	EXISTING PAVED AREA	PROPOSED COMMON CLASSBROOM 456
	(PLAYGROUND) 4" D.S. DRAIN INV. 453, 48-0 452.45-	EL. 452.50
448 448 448 448 450.12 450.30 4" PRIVATE DEWER @ 1.0% 4" PRIVATE DEWER @ 1.0%	4" PRIVATE SEWER @ 1.0% 4" PRIVATE SEWER @ 1.0% NOTE: ALL CLEANOUT TO BE CONSTRUCTED TO EITHER EXISTING GROUND OR	OWNER AND DEVELOPER HOWARD COUNTY BOARD OF EDUCATION
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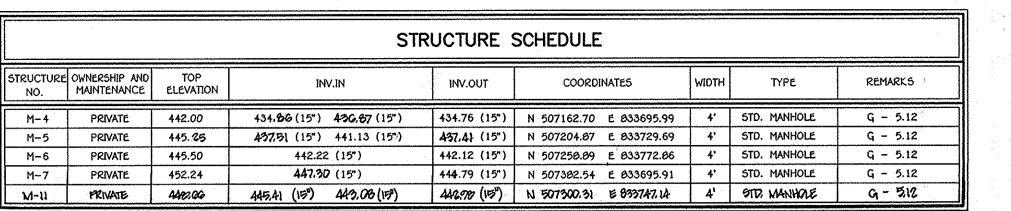


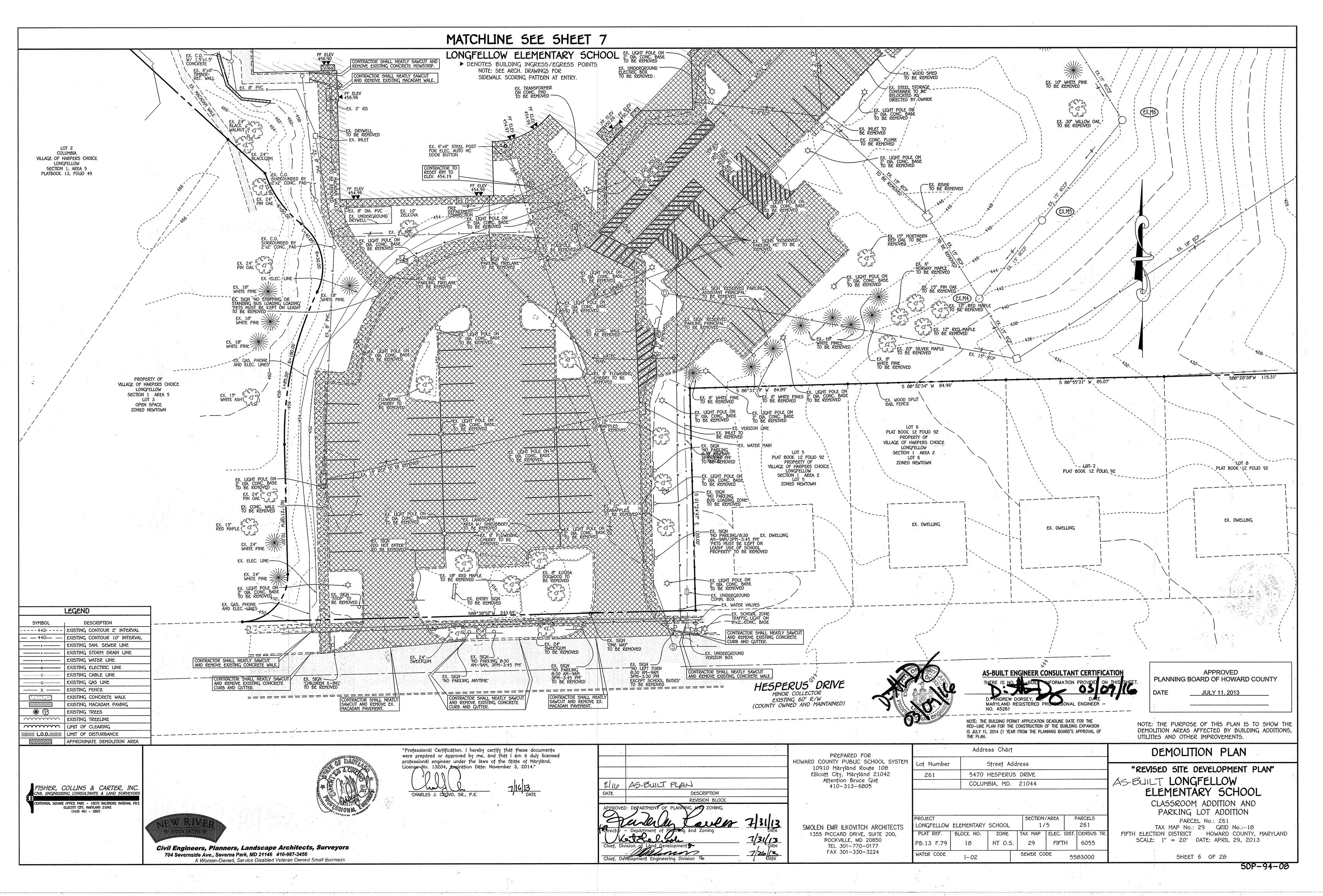
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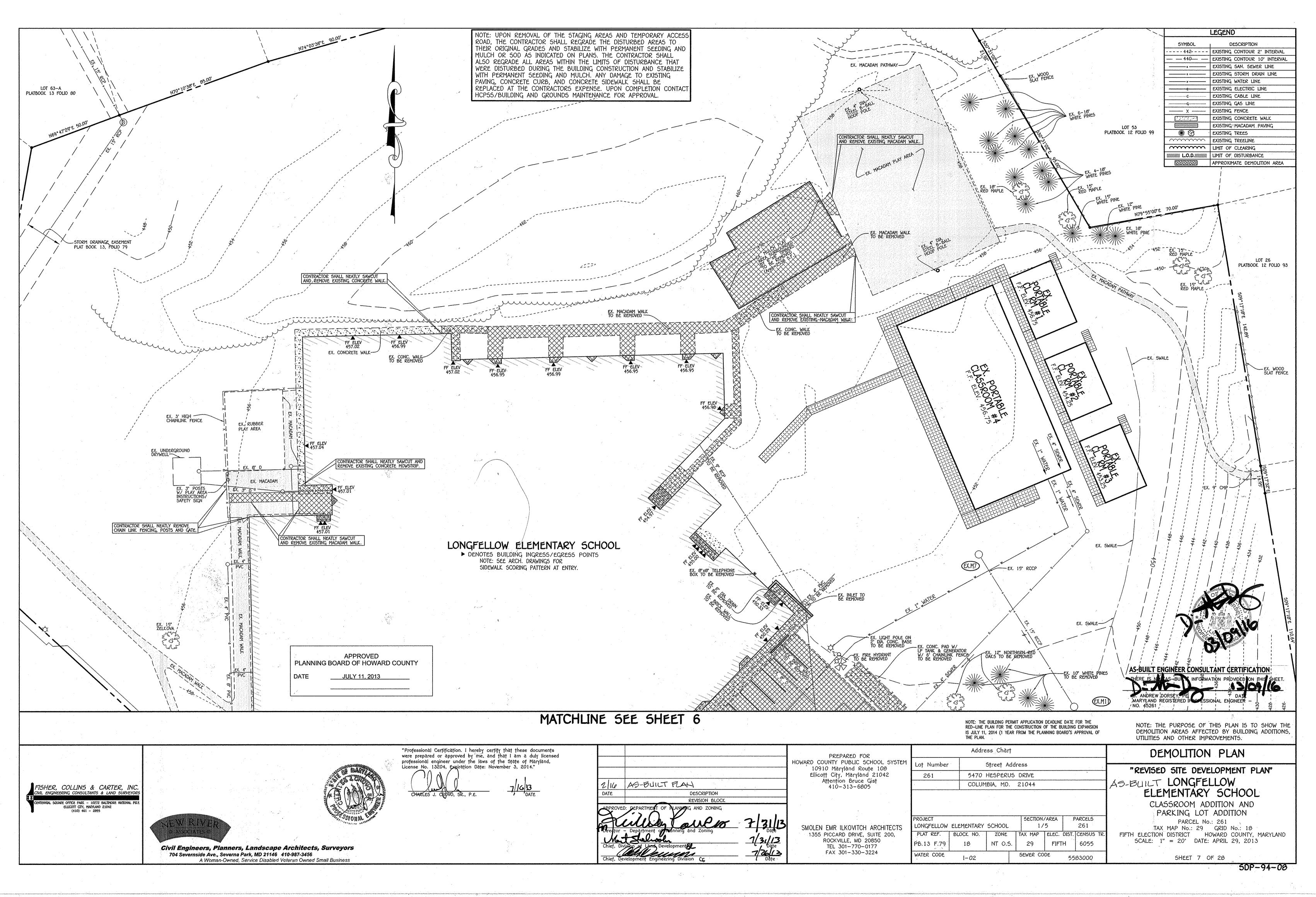
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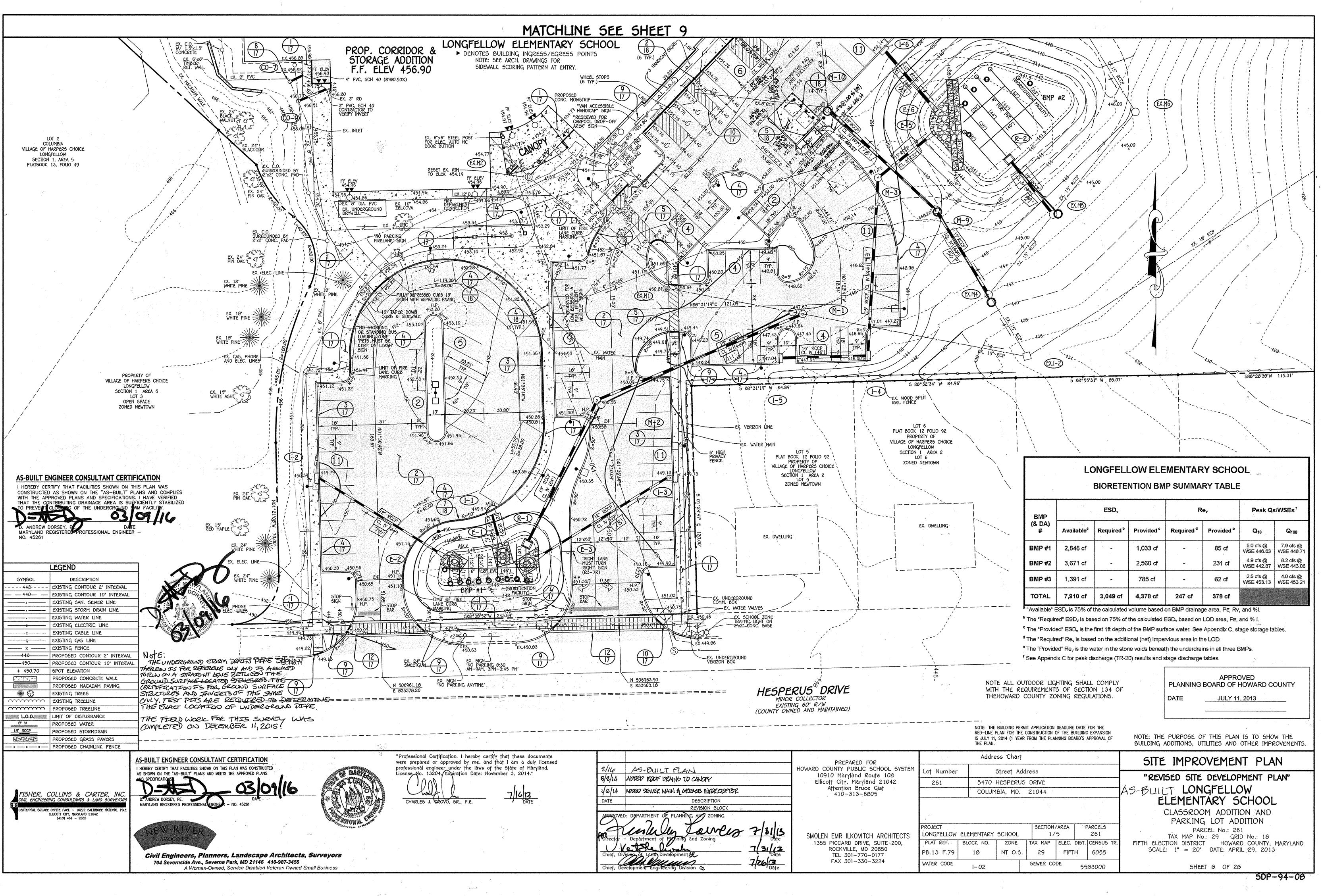


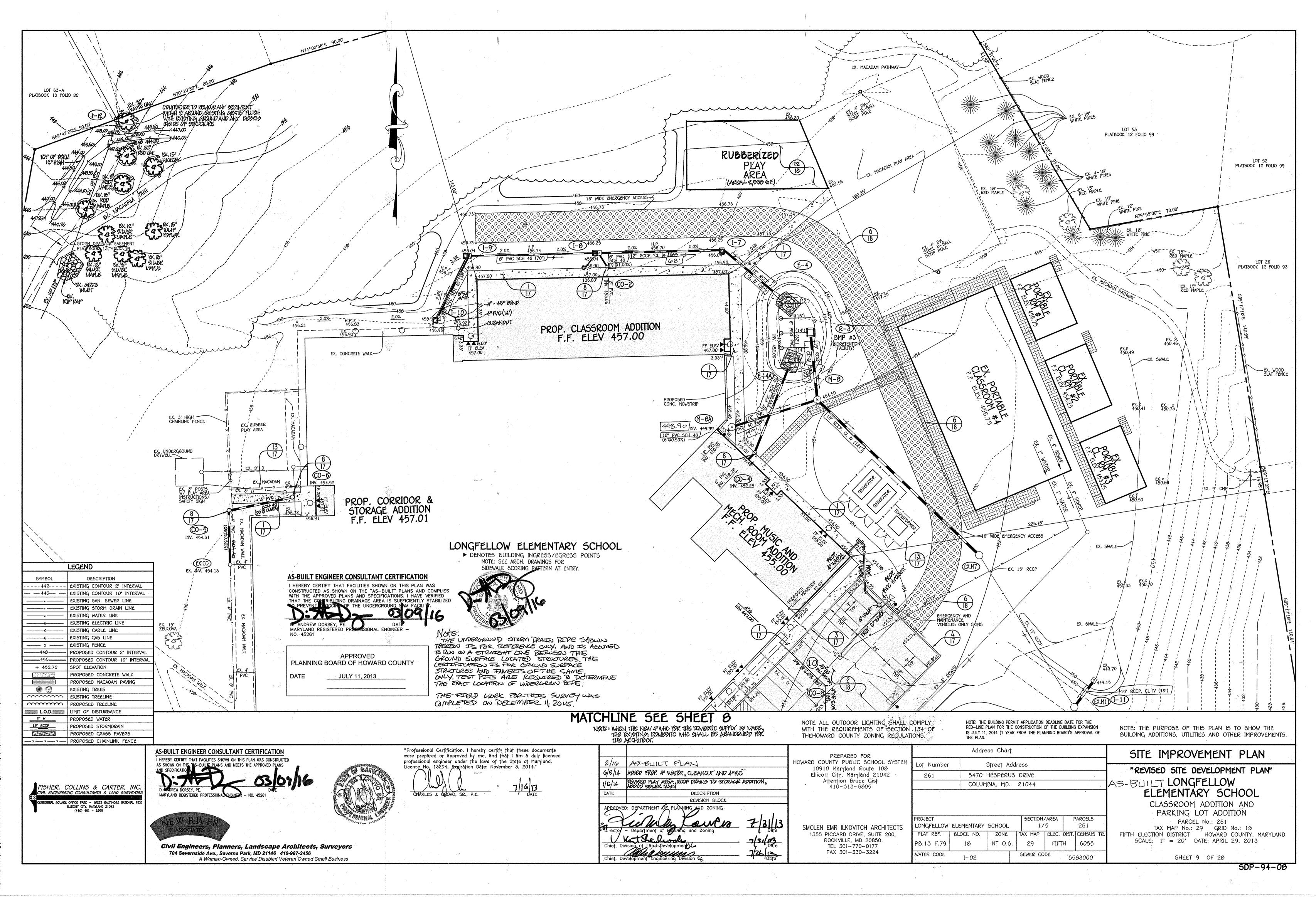




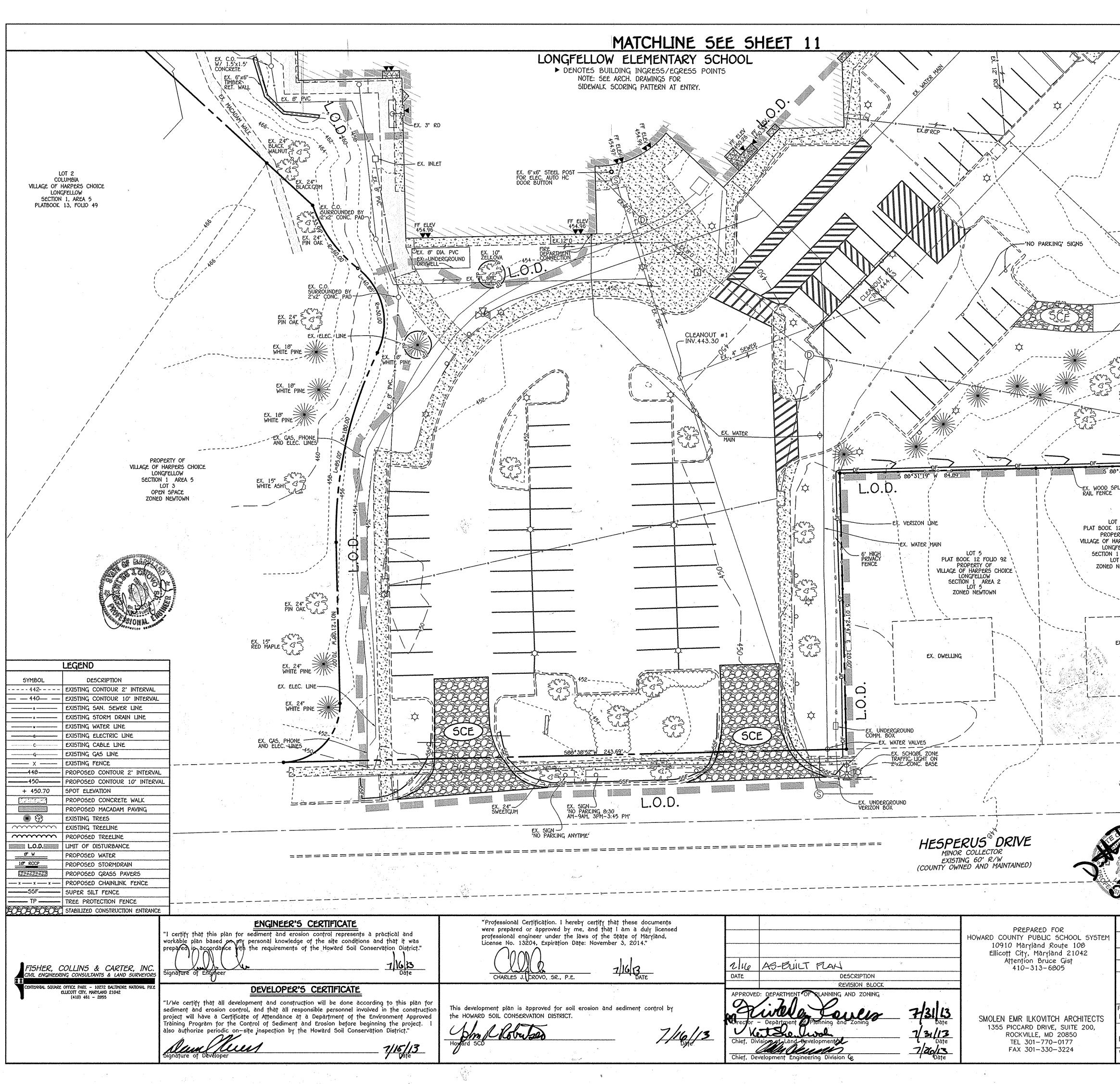






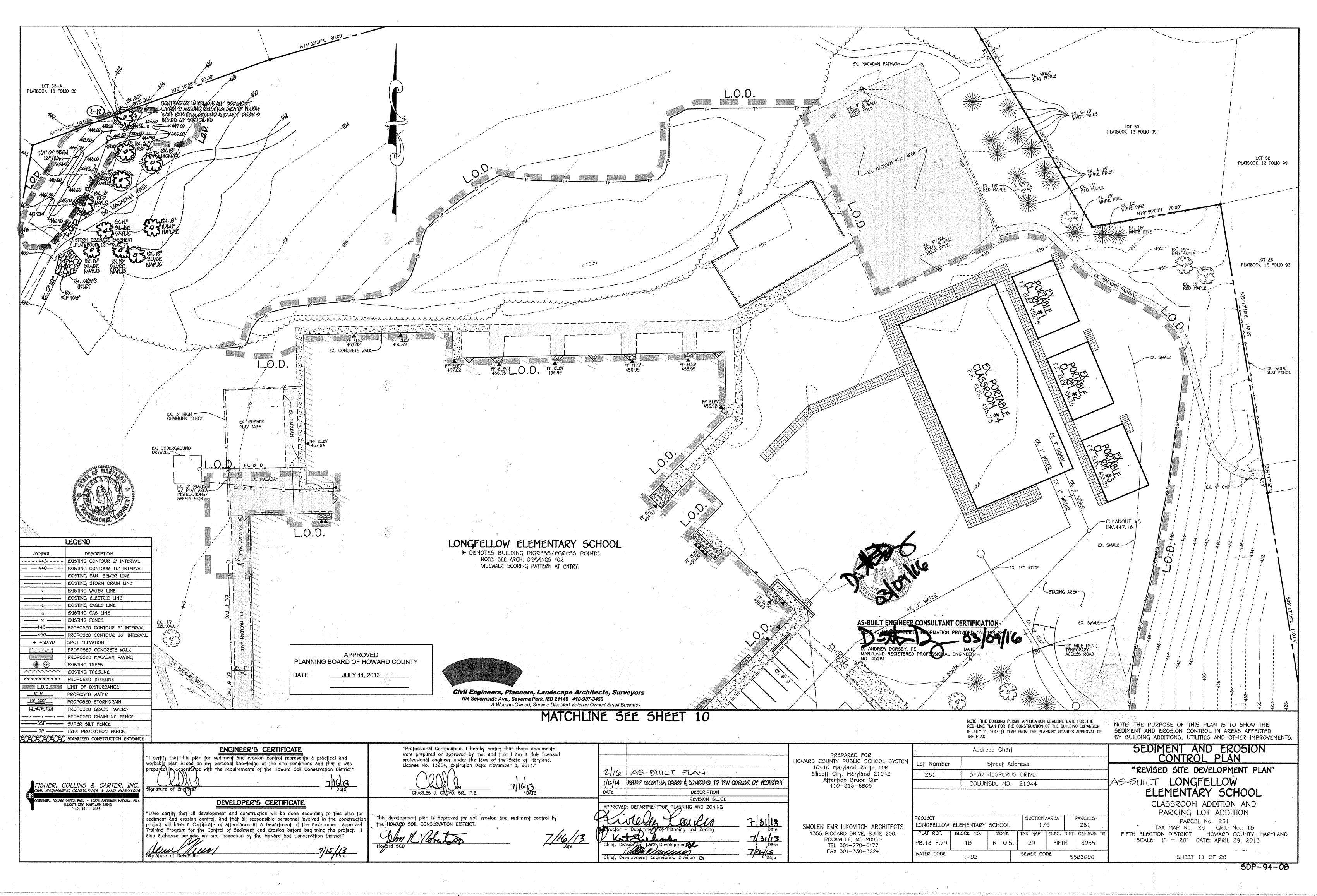


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# SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

# A. Soil Preparation

### 1. Temporary Stabilization

a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

- c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
- 2. Permanent Stabilization

a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

. Soil pH between 6.0 and 7.0. Soluble salts less than 500 parts per million (ppm).

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.

- iv. Soil contains 1.5 percent minimum organic matter by weight. v. Soil contains sufficient pore space to permit adequate root penetration
- b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.

c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.

e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

# B. Topsoiling

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide à suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.

- 3. Topsoiling is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth.

- d. The soil is so acidic that treatment with limestone is not feasible
- 4. Areas having slopes steeper than 2:1 require special consideration and design.
- 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

à. Topsoil must be à loàm, sandy loàm, clày loàm, silt loàm, sandy clay loàm, or loàmy sand. Other soils mày be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/2 inches in diameter.

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, guack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.

. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved y ine appropriate approval authority, may be used in lieu of natural topsol

6. Topsoil Application

a. Erosion and sediment control practices must be maintained when applying topsoil.

b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

# C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 90 to 100 percent will pass through a #20 mesh sieve.

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by

# PERMANENT SEEDING NOTES (B-4-5)

# A. Seed Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table 8.3 for Zone (from Figure 8.3) and based on the site condition or purpose found mixture(s), application rates, and seeding dates in the Permanent Seeding placed on the plan.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary

2. Turfarðss Mixtures

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.

b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentucky Bluegrass: Full Syn Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluegrass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent. Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.

- Select turforass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"
- Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture. Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a) Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.

e. If soil moisture is deficient, supply new seedings with adequate water for plant growth ( 1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

Hardiness Zone (from Figure B.3): <u>6b</u> Seed Mixture (from Table B.3): <u>8</u>					Ferțiliz	Lime Rate		
No.	Species	Application Rate (lb/ac)	Seeding Dațes	Seeding Depths	N.	• P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> 0	
8	TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4-1/2 in.	45 lbs. per acre	90 lb/ac (2 lb/	90 lb/ac (2 lb/	(90 lb/
					(1.0 lb/ 1000 sf)	1000 sf)	1000 sf)	1000 sf)
					х.			

Permanent Seeding Summary

# TEMPORARY SEEDING NOTES (B-4-4)

Definitio To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

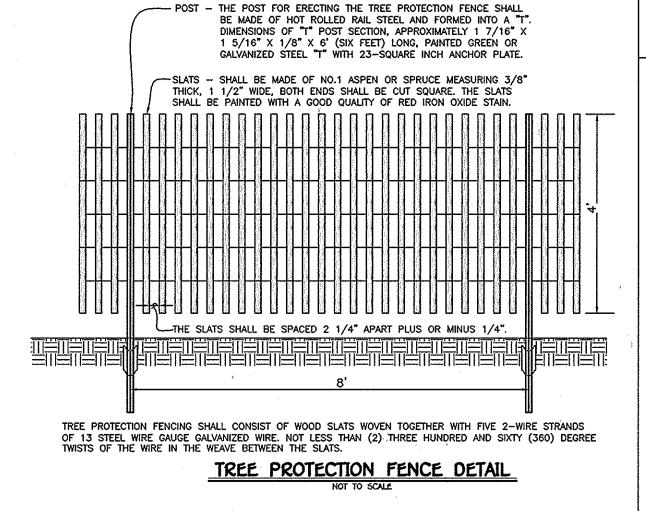
Conditions Where Practice Applies Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

Criteria

1. Select one or more of the species or seed mixtures listed in Table 8.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan. 2. For sites having soil tests performed, use and show the recommended rates by the testing agency.

Soil tests are not required for Temporary Seeding. disking or other suitable means. 3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season. 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Temporary Seeding Summary Hardiness Zone (from Figure B.3): \_\_\_\_6b\_\_\_\_ STANDARD STABILIZATION NOTE Fertilizer Rate Seed Mixture (from Table B.1): (10 - 20 - 20)FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED Application Rate Seeding Seeding Species (b/ac) Depths Dates A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, 96 BARLEY AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND 436 lb/ac 3/1 - 5/15 (10 lb/ 8/15 - 10/15 OAT5 B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE 72 1" 1000 sf) 112 RYE "Professional Certification. I hereby ENGINEER'S CERTIFICATE were prepared or approved by me, a I certify that this plan for sediment and erosion control represents a practical and professional engineer under the laws workable plan based on my personal knowledge of the site conditions and that it was License No. 13204, Expiration Date: I prepared in accordance with the requirements of the Howard Soil Conservation District." 613 FISHER, COLLINS & CARTER. INC. signature of Enginee ( MC ) ML ENGINEERING CONSULTANTS & LAND SURVEYORS CHARLES J. CROVO, SR., P.E. I DALE INIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK. DEVELOPER'S CERTIFICATE ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055 "I/We certify that all development and construction will be done according to this plan fo This development plan is approved for soil erosion and sediment control by sediment and erosion control, and that all responsible personnel involved in the construction the HOWARD SOIL CONSERVATION DISTRICT. 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. also authorize periodic on-site inspection by the Howard Soil Conservation District." 1/15/13 Chief, Development Engineering Division 🤤

the	approp	oriațe	Planț	Hard	iness	
on	Table	B.2.	Enter	selec	ted	
5ur	nmary.	The	e Sum	marγ	is to	Ł



### SEQUENCE OF CONSTRUCTION 1. OBTAIN GRADING PERMIT. (1 DAY)

2. NOTIFY 'MISS UTILITY' AT 48 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 TO BE UNDISTURBED AS INDICATED ON THE PLANS (1 DAY). INSTALL STABILIZED CONSTRUCTION ENTRANCES. (1 DAY)
- 4. INSTALL SEDIMENT CONTROL MEASURES SHOWN ON SHEET 10 AND 11. (1 WEEK)
- 5. INSTALL TEMPORARY ACCESS ROAD. (1 WEEK)
- 6. BEGIN BUILDING CONSTRUCTION. (10 MONTHS) 7. BEGIN DEMOLITION WORK SHOWN ON SHEETS 6 AND 7. (3 WEEKS)
- 8. INSTALL STORM ORAIN SYSTEM AND BMP FACILITIES. (6 WEEKS)

9. INSTALL CURB AND GUTTER, PAVING AND SIDEWALKS AS SHOWN ON SHEETS & AND 9. (6 WEEKS)

10. FINE GRADE ALL AREAS, INSTALL PERMANENT SEEDING, AND LANDSCAPING. (2 WEEKS) 11. FOLLOWING SUCCESSFUL STABILIZATION (i.e. ESTABLISHED VEGETATION OR PAVING) OBTAIN PERMISSION FROM HOWARD

COUNTY SEDIMENT CONTROL INSPECTOR TO REMOVE ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES. THEN STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS WITH PERMANENT SEEDING. (1 WEEK) 12. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.

13. SEQUENCE NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTAINENCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON AFTER EACH RAINFALL EVENT AND ON A DAILY BASIS. REMOVE SEDIMEN FROM THE SUPER SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS.

# DUST CONTROL

<u>DEFINITION</u> CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.

CONDITIONS WHERE PRACTICE APPLIES THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO OUST BLOWING AND MOVEMENT WHERE ON AND O IS LIKELY WITHOUT TREATMENT

### **SPECIFICATIONS** TEMPORARY METHODS

1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE TACKED TO PREVENT BLOWING. 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.

3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASI SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHIS PLOWS SPACED ABOUT 12" APART. SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF WHICH MAY PRODUCE THE DESIRED EFFECT.

4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT BEGINS TO FLOW.

MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT AND PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING 6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

1. PERMENENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABI SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. 2. TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING. 3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

DETAIL B-1 STABILIZE CONSTRUCTIO	D STANDARD SYM	DETAIL E	– 3 SUPER SILT FENCE	STANDARD SYMBOL
ENTRANCE 50 FT MIN. MOUNTABLE BERM	8 FT MIN. EXISTING PAVEMEN	<u>ا</u> ۲		
EXISTING GROUND	5:1 5:1			
NONWOVEN GEOTEXTILE MIN. 6 IN OF 2 AGGREGATE OVER AND WIDTH OF E	R LENGTH	GROUND SURFACE		IN 7767767776
PROFI 50 FT MIN. LENGTH *				
		2% IN DIAMETER GALVANIZED STEEL OR ALUMINUM POSTS	ELEVATION	∠ WITH
O FT MIN.	EDGE OF EXISTINGPAVEMEN	<b>4 i</b>		
<u> </u>		WOVEN SLIT FIL 		
PLAN V		EMBED GL CHAIN LINI MIN.	OTEXTILE AND	
CONSTRUCTION SPECIFICATIONS 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACC	CORDANCE WITH THE APPROVED PLAN VEHICI	CONSTRUCTION SPECIFICATI	CROSS SECTION ONS	
MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SC FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH C EXISTING ROAD TO PROVIDE A TURNING RADIUS.	E. USE MINIMUM LENGTH OF 50 FEET (*30 F	EET 1. INSTALL 2¾ INCH DIAMETER G LENGTH SPACED NO FURTHER INTO THE GROUND.	GALVANIZED STEEL POSTS OF 0.095 INCH WAY THAN 10 FEET APART. DRIVE THE POSTS A	MINIMUM OF 36 INCHES
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INS BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCH SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS I	TALLED THROUGH THE SCE WITH A MOUNTAB IES OF STONE OVER THE PIPE. PROVIDE PIPE OCATED AT A HIGH SPOT AND HAS NO DRAI	E INCHES IN HEIGHT SECURELY AS NAGE 3. FASTEN WOVEN SLIT FILM GEO	R GALVANIZED CHAIN LINK FENCE (2% INCH ) TO THE FENCE POSTS WITH WIRE TIES OR HU DTEXTILE AS SPECIFIED IN SECTION H-1 MATE C FENCE WITH TIES SPACED EVERY 24 INCHES	JG RINGS. ERIALS, SECURELY TO THE
TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTA LOCATED AT A HIGH SPOT. 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTE>	:	SECTION. EMBED GEOTEXTILE	AND CHAIN LINK FENCE A MINIMUM OF 8 INC TILE COME TOGETHER, THE ENDS SHALL BE C	HES INTO THE GROUND.
<ol> <li>PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZ REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGT</li> <li>MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZE</li> </ol>	H AND WIDTH OF THE SCE. S TRACKING OF SEDIMENT. ADD STONE OR M	5. EXTEND BOTH ENDS OF THE S 45 DEGREES TO THE MAIN FEL	SUPER SILT FENCE A MINIMUM OF FIVE HORIZ NCE ALIGNMENT TO PREVENT RUNOFF FROM	
OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTA SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STON TRACKED ONTO ADJACENT ROADWAY BY VACUUMING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEME DIRECTED TO AN APPROVED SEDIMENT CONTROL PR.	E AND/OR SEDIMENT SPILLED, DROPPED, OR 5, SCRAPING, AND/OR SWEEPING. WASHING NT IS NOT ACCEPTABLE UNLESS WASH WATEF	GEOTEXTILE USED MEETS THE 7. REMOVE ACCUMULATED SEDIME	TIFICATION TO THE INSPECTION/ENFORCEMENT REQUIREMENTS IN SECTION H-1 MATERIALS.	FENCE OR WHEN SEDIMENT
MARYLAND STANDARDS AND SPECIFICATIONS FO	• • •	CHAIN LINK FENCING AND GEC	CHT. REPLACE GEOTEXTILE IF TORN. IF UNDER DTEXTILE.	
U.S. DEPARTMENT OF AGRICULTURE 2011	WATER MANAGEMENT AUMINISTRA	TION NATURAL RESOURCES CONSERVATION S	RE 2011 MARYLAND SERVICE 2011 WATER I	DEPARTMENT OF ENVIRONMENT MANAGEMENT ADMINISTRATION
1) A MINIMUM OF 48 HOURS NOTICE MU	SOIL CONSERVATION DISTRICT D SEDIMENT CONTROL NOTES IST BE GIVEN TO THE HOWARD COUNTY DEPARTM	ent of inspections,		ng turks
SITE DAMAGE, 2) ALL VEGETATIVE AND STRUCTURAL PR PLAN AND ARE TO BE IN CONFORMANCE	OL DIVISION PRIOR TO THE START OF ANY CONS ACTICES ARE TO BE INSTALLED ACCORDING TO T WITH THE MOST CURRENT MARYLAND STANDARDS	HE PROVISIONS OF THIS		
BE COMPLETED WITHIN: a) 3 CALENDAR D PERIMETER SLOPES AND ALL SLOPES GRE	NU REVISIONS THERETO. OR RE-DISTURBANCE, PERMANENT OR TEMPORA DAYS FOR ALL PERIMETER SEDIMENT CONTROL ST ATER THAN 3:1, b) 7 DAYS AS TO ALL OTHER (	RUCTURES, DIKES,		
CRIMPED OR THE 2011 MARYLAND STANDARDS AND 5P SEEDING (SEC. B-4-5), TEMPORARY SEED	BILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE ECIFICATIONS FOR SOIL EROSION AND SEDIMENT DING (SEC. $B-4-4$ ) AND MULCHING (SEC. $B-4-4$ )	CONTROL FOR PERMANENT 3). TEMPORARY		
SURE WHICHPROPER GERMINATION AND ESTABLISHMENTSEL-TYPE5)ALL SEDIMENT CONTROL STRUCTURES	NLY BE DONE WHEN RECOMMENDED SEEDING DA 7 OF GRASSES. ARE TO REMAIN IN PLACE AND ARE TO BE MAI REMOVAL HAS BEEN OBTAINED FROM THE HOWAR	ITAINED IN OPERATIVE		
ER UNTIL THE 6) SITE ANALYSIS: IT RUNOFF TOTAL AREA OF SITE AREA DISTURBED AND SIMILAR' AREA TO BE ROOFED OR PAVED	9.00 ACRES 3.91 ACRES 1.64 ACRES			
GLES TO AREA TO BE VEGETATIVELY STABILIZED SOIL BLOWING. TOTAL CUT TOTAL FILL OFFSITE WASTE/BORROW AREA LOCATION	2.27 ACRE5 2000 CU.YD5. 2000 CU.YD5. N/A			
SILIZATION WITH BE REPAIRED ON THE SAME DAY OF DIST	IAT IS DISTURBED BY GRADING ACTIVITY FOR PLA URBANCE. BE PROVIDED, IF DEEMED NECESSARY BY THE		RIVER CIATES AN	
BE REQUESTED UPON COMPLETION OF IN PROCEEDING WITH ANY OTHER EARTH DIST APPROVALS MAY NOT BE AUTHORIZED UN	5 IN EXCESS OF 2 ACRES, APPROVAL OF THE IN STALLATION OF PERIMETER EROSION AND SEDIMEN TURBANCE OR GRADING, OTHER BUILDING OR GRA TIL THIS INITIAL APPROVAL BY THE INSPECTION A	IT CONTROLS, BUT BEFORE <b>Givil Eng</b> DING INSPECTION 704 Seve GENCY IS MADE.	<b>tineers, Planners, Landscape Arc</b> ernside Ave., Severna Park, MD 21146 410-9 A Woman-Owned, Service Disabled Vetera	87-3456
BE BACK-FILLED AND STABILIZED BY THE 11) ANY CHANGES OR REVISIONS TO THE THE PLAN APPROVAL AUTHORITY PRIOR TO		R. IED AND APPROVED BY	S-BUILT ENGINEER CONSULTANT CER	<b>/</b>
ACREAGE OF 20 ACRE PER GRADING UNIT AT LEAST 50 PERCENT OF THE DISTURBED APPROVED BY THE ENFORCEMENT AUTHOR	O THAT GRADING ACTIVITIES BEGIN ON ONE GRAD ) AT A TIME. WORK MAY PROCEED TO A SUBSED D AREA IN THE PROCEEDING GRADING UNIT HAS ITY. UNLESS OTHERWISE SPECIFIED AND APPROV	DUENT GRADING UNIT WHEN BEEN STABILIZED AND D BY THE APPROVAL	D. ANDREW DORSEY, FL. D MARYLAND REGISTERED PROFESSIONAL ENGIN NO. 45261	DATE EER -
AUTHORITY, NO MORE THAN 30 ACRES CU	IMULATIVELY MAY BE DISTURBED AT A GIVEN TIM			
•		The second	APPROVI PLANNING BOARD OF HO	WARD COUNTY
		CONTRACTOR OF THE	DATEJULY 11, 20	<u>013</u>
	RED-LINE PLAN FOR THE C	T APPLICATION DEADLINE DATE FOR THE ONSTRUCTION OF THE BUIILDING EXPANSION FROM THE PLANNING BOARD'S APPROVAL OF	NOTE: THE PURPOSE OF THIS PL NOTES AND DE	
PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM	Address Chart Lot Number Street Add	7255	NOTES AND DE	TAILS
10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Bruce Gist 410-313-6805	261 5470 HESPERUS COLUMBIA, MD.	DRIVE	BUILT LONGFELLO	)W
			ELEMENTARY 5 CLASSROOM ADDITI	ON AND
- SMOLEN EMR ILKOVITCH ARCHITECTS	PROJECT LONGFELLOW ELEMENTARY SCHOOL PLAT REF.   BLOCK NO.   ZONE	SECTION/AREAPARCELS1/5261TAX MAPELEC. DIST. CENSUS TR.		1 D No.: 18
1355 PICCARD DRIVE, SUITE 200, ROCKVILLE, MD 20850 TEL 301-770-0177 FAX 301-330-3224	PB.13 F.79 18 NT 0.5.	29 FIFTH 6055	SCALE: $1^{"} = 20'$ DATE: APR	
	I-02	5583000	SHEET 12 OF 28	50P-94-08

Lime Rate 2 tons/ac (90 lb/ 1000 sf)					
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ertify that these documents					
nd that I am a duly licensed of the State of Maryland, November 3, 2014."			PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL		
		х	10910 Maryland Route 108 Ellicott City, Maryland 21042		
7/16/13	2/16	AS-BUILT PLAN	Attention Bruce Gist 410-313-6805		
DATE	DATE	DESCRIPTION REVISION BLOCK	-		
	APPROVE	D: DEPARTMENT OF PLANNING AND ZONING			

	DATE			DESCRIPT	ION
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	Chief	Development Env			<u>.</u>

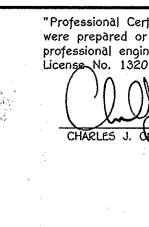
X	HOWARD COUNTY PUE 10910 Marylar Ellicott City, M Attention 1 410-31
7/81/13	SMOLEN EMR ILKO

5. BARRIERS - SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DIKES

# 11 :38 AM, SEC-2, 7/15/2013 9 24X36 SED CONT DE 35

FISHER, COLLINS & CARTER, INC. CML ENGINEERING CONSULTANTS & LAND SURVEYORS NNAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKI ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

1. S. A. S. A. S.



635 - <sup>-- 50</sup> RC-ROCK CORE .  $C_{4}$ 

430 -

. . . . .

Elevation/ SYMBOLS/ SYMBOLS/ SAMPLE COMPTIONS -C-9

Description

Longiellow Elementary School Howard County, Maryland . Job # 🔄 Hermoner Wt. 140 Ros. Hole Diameter Surf. Elev. \_\_\_\_452.19 ft Hemmer Drop \_\_\_\_\_30 \_\_\_\_ in. Rock Core Diameter Data Stanlad 3-2-13 Pipe Size 2.0 in. Boring Method HSA Boring and Sampling Rec. Rec. NM/% 6" Asphalt

HILLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION

Boring No.

Inepector

SPT Blows

Date Complete

Brown, moist, loose to medium dense micaceous fine sity SAND 3-4-4 3-3-4 447 D Tan, moist, medium dense fine to medium sity SAND with weethered No groundwater rock (SM) drilling 5-8-10 6-8-9 5-9-11 acidilied at comp 20 Bottom of Hole at 20.0'

435 -

AT COMPLETION Dry 2. 14.0 2. HEA HOLLOW STEMA AFTER 24 HRS. 2. 2. 2. DO - DRYING CASING MO-MUD DRILLING 
 SAMPLER TYPE
 SAMPLE CONDITIONS

 DRAVEN SPLIT SPOON UNLESS OTHERWISE
 D-DISINTEGRATED

 PT - PRESSED SHELBY TUBE
 1-INTAGT

 CA - CONTINUOUS FLIGHT AUGER
 U-UNDISTURSED
 L-106T AC-ROCKOORE STANDARD PENETRATION TEST-DRIVING 2" O.D. SAMPLER 1" WITH 1400 HAMMER FALLING SO; COUNT MADE AT C"INTERVALS.

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION Longiellow Elementary School \_\_\_\_ Boring No. Howard County, Maryland Job#

Haramer Wt. 140 Datum \_\_\_ be. Hole Diamet Surf. Elev. 455.25 It Heromer Drop 30 in. Rock Core Diameter inexector Date Started \_\_\_\_\_\_ 3-2-13 Pipe Size \_\_\_\_\_\_ in. Boring Method \_\_\_\_\_\_ HSA Date Complete Elevation/ 808. SYABOLE/ Bapth CONDITIONS Boring and Sampling Notes Rec. NMMs Description SPT Blows ess f° Brown, moles, stiff sandy slity CLAY 4" Topsol (CL-ML) 3-4-8 142 Brown, molat, medium dense to dense micaceous sity SAND (SM) 8-8-8 10\* 6-8-8 18 20-15-19 No groundwater encountered while drilling 12" 445 - 10 8-9-14 Backfilled at completi 440 --- 15 Bottom of Hole at 15.0' 435 - 29 é <sub>ég</sub> 430 - 25

BORING METHO HSA-HOLLOW S CFA-CONTINUC DC-DRIVING CA

AT COMPLETION DRY & 0.5 ±. AFTER 24 HRS. ±. ±. 
 SAMPLER TYPE
 SAMPLE CONDITIONS

 DRAVEN SPLIT SPCON UNLESS OTHERWISE
 D - DISINTEGRATED

 PT - PRESSED SHELBY TUBE
 I - INTACT

 CA - CONTINUOUS FLIGHT AUGER
 U - UNDISTURBED
 L-LOST MD - MUD DRILL STANDARD PENETRATION TEST-DRIVING & O.D. SAMPLER & WITH 1408 HAMMER FALLING 80" COUNT MADE AT & INTERVALS.

"Professional Certificati were prepared or appro professional engineer u License No. 13204, Fr  $\cap$ 

CHARLES J. OROVO

 $C_{ij}$ 

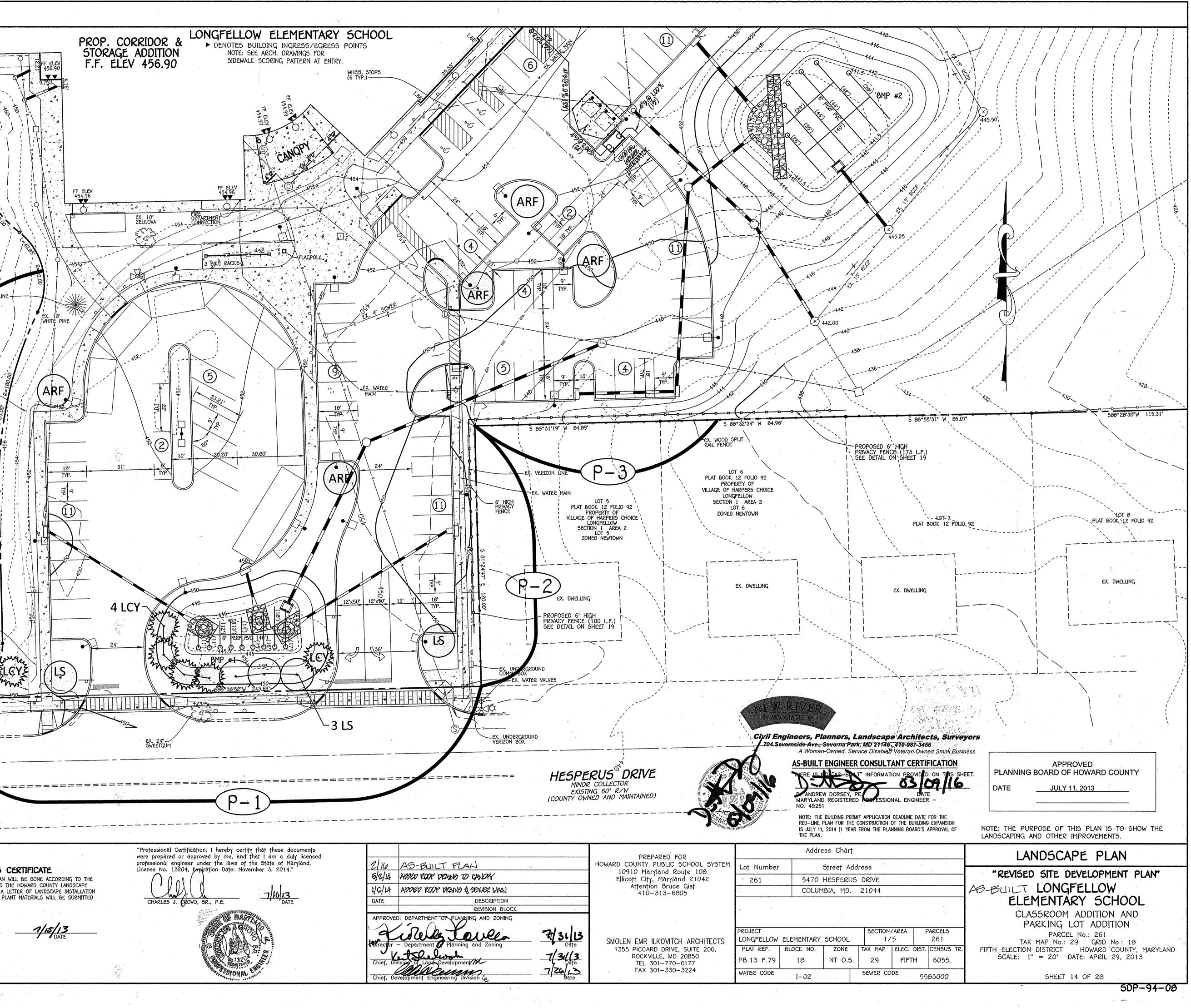
	HILLIS - CARNES IGINEERING ASSOCIATES, INC.		RNES	110 - 010100	KIIIS-CARNES		
	IGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION Elementary School Boring No SWM-2	HILLIS - CA ENGINEERING ASS RECORD OF SOIL E Project Name Longitudor Elementary School		RECORD OF SOIL EXPLORATION	HILLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION		
SYMA1         Project Name         Longfellow           13076A         Longfellow	Exementary Sohool       Bortrg No.       SWM-2         Job #       Job #       13076A         140       ba.       Hole Diameter       6"       Foreman       J. Ruteell         30       h.       Rock Core Diameter       Preposition       J. Ruteell         20       h.       Bortrg McGes       Mark       SPT EloweffCox         20       h.       Bortrg McGes       HSA       Date Completed       3-3-13         10       Bortrg mcGes       HSA       Date Completed       3-3-13         10       Bortrg mcGes       10"       3-3-4       7       10       30       60         10       STT EloweffCox       Current       10"       3-3-4       7       10       30       60         10       String SAND       Offset up stops 20"       12"       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       9       4-4-5       10"       3-7-8       15       4-5       9       4-4-5       10"	RECORD OF SOIL E         Project Name       Lonation Elementary School         Location       Howard County, Maryland         Datum       Hammer Wt140         Datum       Addition         Datum       StateCLP         StateCLP       Depth         StateCLP       Depth         Depth       StateCLP         Brown/Carey, model, and took fragments (ME.)       Addition of the medium state for organics (ME.)         des       D         des       D         D       D	DEPLORATION	RECORD OF SOIL EXPLORATION         Project Name       Lonafeliow Elementary School         Location       Howard County, Maryland         Batan       Howard County, Maryland         Datum       Hammer W1.       140         But       Hole Diameter         Surf. Elev.       452.99       ft         Date Started       3-2-13       Pipe Size       2.0         Elevator/       soll       Soll       Soll       Soll	Bothg No.         SWM44		
SWM-5 Project Name Longiel	NO 27 O.D. SAMPLER I'WITH 1409 HAMMER FALLING 30° COUNT IMDE AT # INTERVALS. HILLLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION Icounty, Maryland	PT-PRESED MELLY TURE CA-CONTROLOGIE SUBTAILOR WO-ROOKCORE STANSARD PENETRATION TEST-ORMANS # OLD SAMPLER 1 WITH 14 STANSARD PENETRATION TEST-ORMANS # OLD SAMPLER 1 WITH 14	RS R R. DC-DRIVING CASING MD+MUD DRILING	PT-RESERVE SHEART RADGER GA-CONTINUOUS RUMAT RADGER IN-ROCKCORE STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1409 HAARER FALLS STANDARD PENETRATION TEST ORVING P OLD SAMPLER 1 WITH 1 W	dscape Architects. Surveyors		
	AFTERR    R    R     DO-DRAVING CASING NO-MUD DRALING       NING & O.D. SAMPLER I WITH 1400 INVAMENTIALING 30: COUNT MADE AT 5T INTERVALS.       2110	PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTE 10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Bruce Gist 410-313-6805	NOTE: THE BUILDING PERMIT APPLICATION RED-LINE PLAN FOR THE CONSTRUCTION IS JULY 11, 2014 (1 YEAR FROM THE PLAN. Address Chart M Lot Number Street Address 261 5470 HESPERUS DRIVE COLUMBIA, MD. 21044	DATE	ATION PROVIDED ON THIS SHIET. DATE DATE DATE DATE DATE DATE DATE DATE		
	Chief, Division of Land Development M	7/31/13       SMOLEN EMR ILKOVITCH ARCHITECTS         1/31/13       1355 PICCARD DRIVE, SUITE 200,         ROCKVILLE, MD 20850       TEL 301-770-0177         7/26/3       FAX 301-330-3224		N/AREAPARCELSPARCELS/5261PARCEelec. DIST.CENSUS TR.FIFTH6055FIFTH6055	LOT ADDITION EL No.: 261 29 GRID No.: 18		

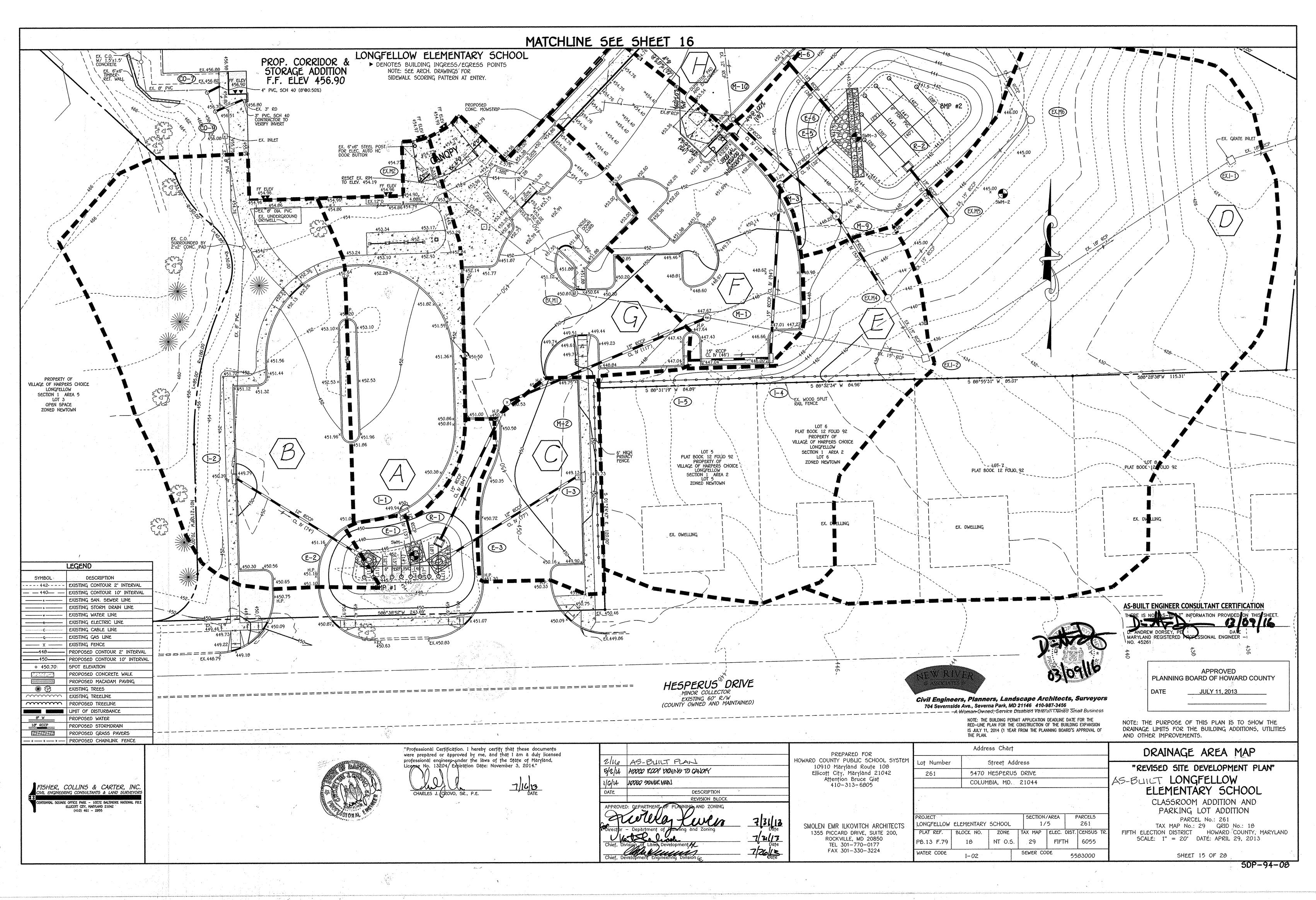
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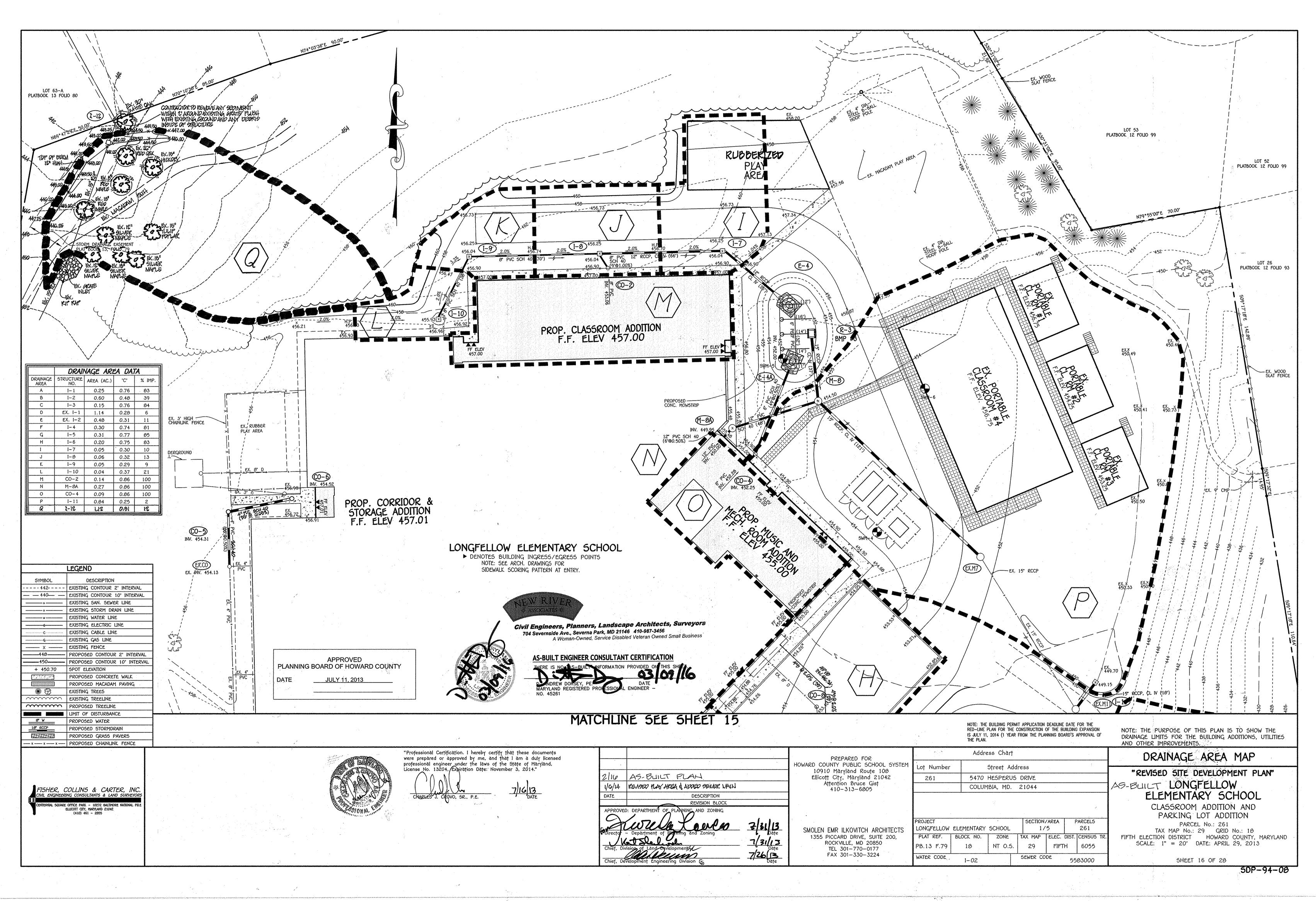
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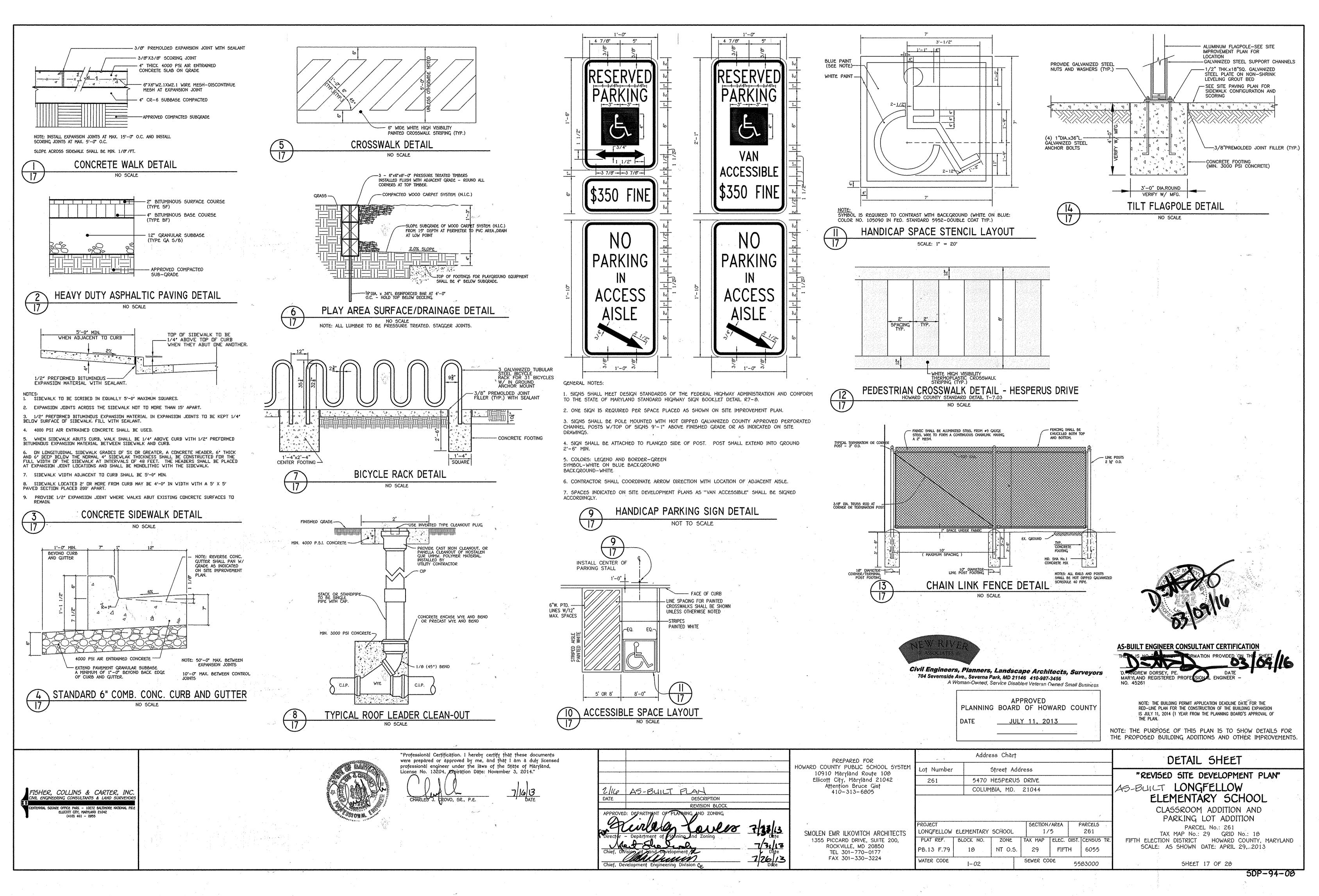
PROP. CORRIDOR & STORAGE ADDITION F.F. ELEV 456.90 EX. 6"x6"-TIMBER  $\mathbf{\nabla}$   $\mathbf{\nabla}$ LOT 2 COLUMBIA VILLAGE OF HARPERS CHOICE LONGFELLOW SECTION 1, AREA 5 PLATBOOK 13, FOLIO 44 YY EX. 24" 44.4.  $\cap$ EX. 10' ZELKOVA - 454 -EX. 24" EX. PIN OAK EX. 18" WHITE P ~~\_\_\_\_\_ WHITE PINE EX. 18" WHITE PINE AR -EX. GAS, PHONE AND ELEC. LINES \_\_\_\_\_ 32 PROPERTY OF VILLAGE OF HARPERS CHOICE LONGFELLOW EX. 15" ASHE ST SECTION 1 AREA 5 LOT 3  $\langle 2 \rangle$ OPEN SPACE ZONED NEWTOWN p \_\_\_\_\_/ EX. 24" 55 PIN OAK 56 EX. 15" RED MAPLE 4 LCY EX. 24" WHITE PINE EX. ELEC. LINE-LEGEND EX. 24" WHITE PINE DESCRIPTION SYMBOL ---- 442---- EXISTING CONTOUR 2' INTERVAL EXISTING CONTOUR 10' INTERVAL ----- 440-----LŞ - 45: EXISTING SAN. SEWER LINE AS, PHONE ELEC. - UNES EXISTING STORM DRAIN LINE ------- EXISTING WATER LINE EXISTING ELECTRIC LINE ------<u>6</u>------EXISTING CABLE LINE EXISTING GAS LINE -----G-----EXISTING FENCE ----- X ------ PROPOSED CONTOUR 2' INTERVAL -----448------\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ EX. 24" SWEETGUM ----- 450------- PROPOSED CONTOUR 10' INTERVAL + 450.70 SPOT ELEVATION PROPOSED CONCRETE WALK PROPOSED MACADAM PAVING **\* 63** EXISTING TREES  $\sim\sim\sim\sim\sim\sim\sim$ EXISTING TREELINE = == == :  $\dots$ PROPOSED TREELINE L.O.D. LIMIT OF DISTURBANCE 8" W PROPOSED WATER 10" RCCP PROPOSED STORMORAIN PROPOSED GRASS PAVERS DEVELOPER'S / BUILDER'S CERTIFICATE I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL 1/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION FISHER, COLLINS & CARTER, INC. CML ENGINEERING CONSULTANTS & LAND SURVEYORS ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED CHARLES J. CROVO, SR., P.E. TO THE DEPARTMENT OF PLANNING AND ZONING. are office park - 10272 baltimore national pik ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055 i strand



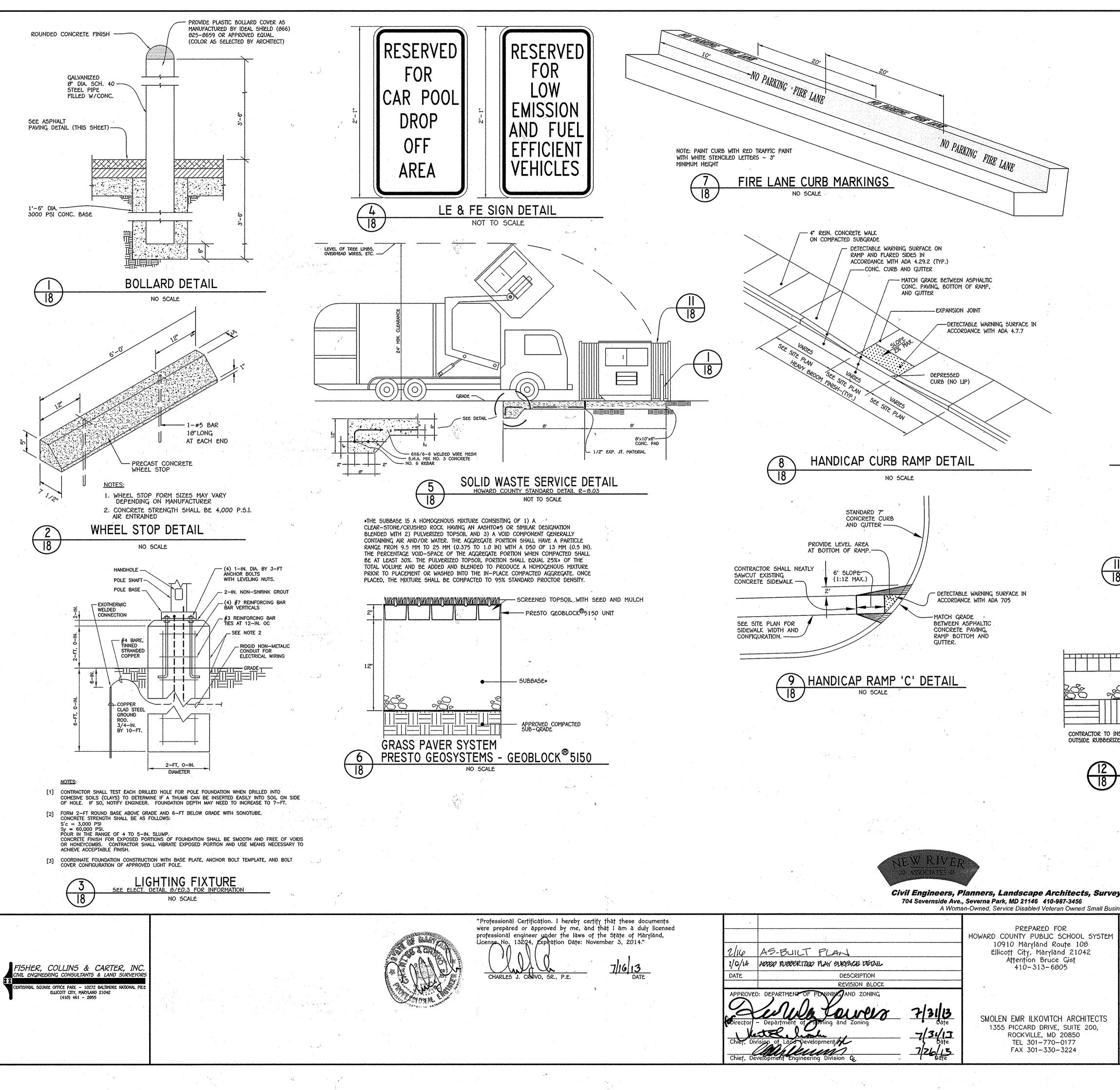


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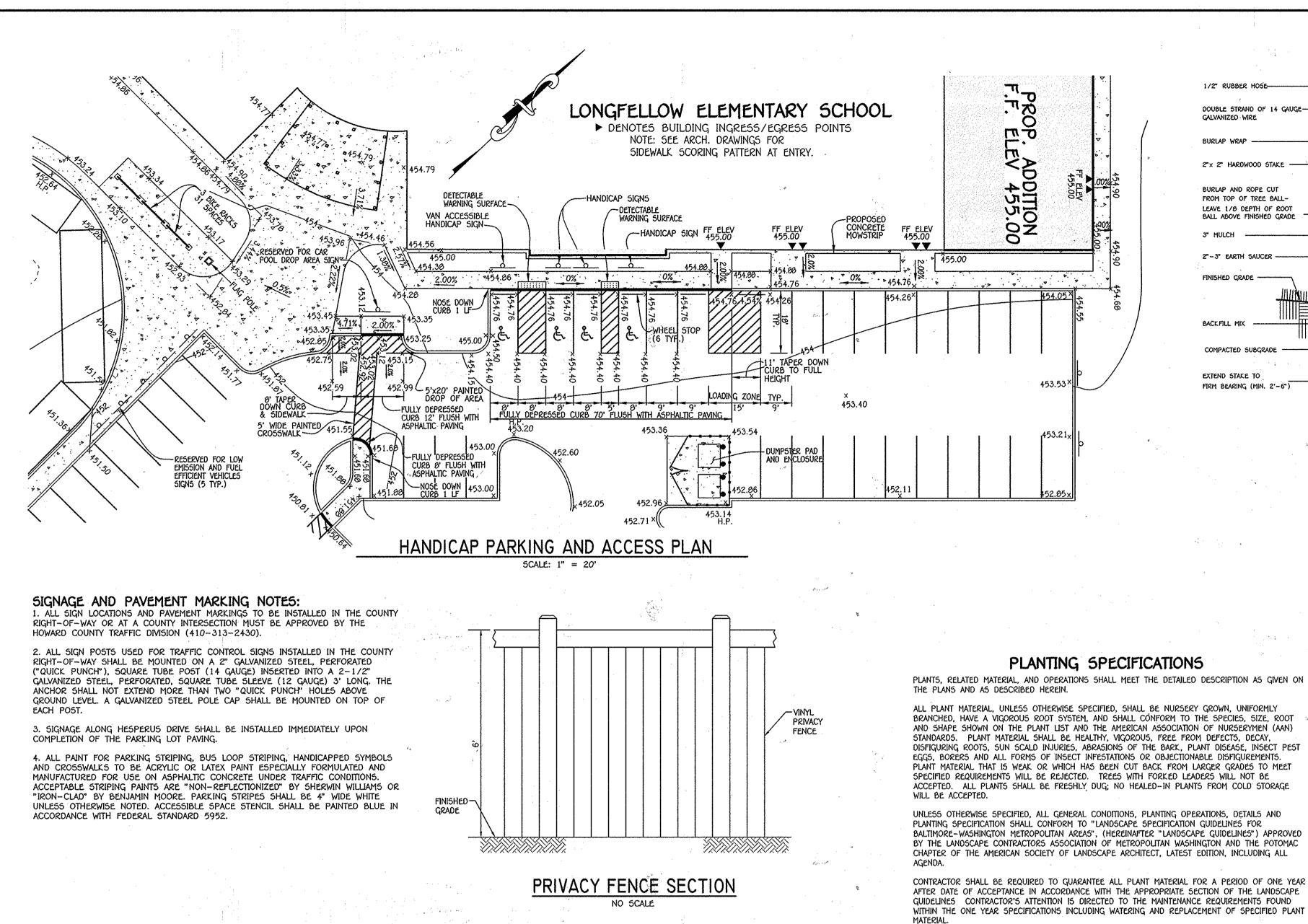


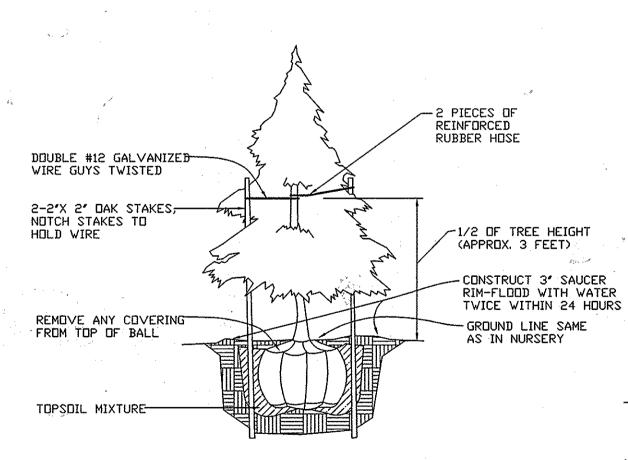
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DETECTABLE WAR	NING SURFACE IN	
	4" REIN. CONCRETE WALK	
	ON 4" CR-6 COMPACTED SUBBASE	
	NO SCALE	
- 4" × 4" - RI	RESSURE TREATED POST	· · · · · · · · · · · · · · · · · · ·
	"1"x4"x6' PRESSURE TREATED BOARD	ung tanàna ao amin'ny taona 2008. No
└ <u>──</u> <del>──────────────────────────────────</del>	$\frac{2^{\prime\prime}}{2^{\prime\prime}} = \frac{1}{1}$ MAX. 6' SPACING	
	x4" PRESURE TREATED RAILS (3 TYP) 21	
	3,	
       3'		
الـــا 3"		
)	BOARD ON BOARD FENCE	
	D FENCING TO BE PRESSURE TREATED. TO BE MIX NO. 1	
	-1 1/2" BITUMINOUS SURFACE 1 1/2" RUBBERIZED PLAY COURSE (TYPE SF) SURFACE UPLAY 4" BITUMINOUS BASE 2 1/2" BITUMINOUS BASE COURSE (TYPE BF) COURSE (TYPE BF)	
, •	COURSE (TYPE BF) COURSE (TYPE BF) 6" GRANULAR SUBBASE (TYPE GA 5/B)	
ALL MACADAM PAVIN	APPROVED COMPACTED	L RUBBERIZED PLAY
PLAY AREA.	SURFACE WITHIN PLAY MINIMUM 6 FEET FROM EQUIPMENT.	EQUIPMENT AREA TO A
RUBBE	RIZED PLAY SURFACE DETAIL	
	NO SCALE	AS-BUILT ENGINEER CONSULTANT CERTIFICATION
		THE IS NO WE-BUILT INFORMATION PROVIDED ON THIS SHIFT.
· · · · ·		DE ANDREW DORSEY, PE. DATE MARYLAND REGISTERED PROFESSIONAL ENGINEER -
PLA	APPROVED NNING BOARD OF HOWARD COUNTY	DE ANDREW DORSEY, PE. MARYLAND REGISTERED PROFESSIONAL ENGINEER NO. 45261 NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE
PLA DATE	NNING BOARD OF HOWARD COUNTY	DE ANDREW DORSEY, PE. MARYLAND REGISTERED PROFESSIONAL ENGINEER - NO. 45261
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DATE	NNING BOARD OF HOWARD COUNTY JULY 11, 2013 Address Chart Street Address 5470 HESPERUS DRIVE	Detail She building permit application deadline date for the RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN. NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS.
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DATE ors ss Lot Number 261	NNING BOARD OF HOWARD COUNTY JULY 11, 2013 Address Chart Street Address 5470 HESPERUS DRIVE COLUMBIA, MD. 21044	DANDREW DORSEY, PE. DATE MARYLAND REGISTERED PROFESSIONAL ENGINEER - NO. 45261 NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN. NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS. DETAIL SHEET "REVISED SITE DEVELOPMENT PLAN" AS-BUILT LONGFELLOW ELEMENTARY SCHOOL CLASSROOM ADDITION AND PARKING LOT ADDITION
DATE DATE DATE SS Lot Number 261 PROJECT LONGFELLOW EL	NNING BOARD OF HOWARD COUNTY JULY 11, 2013 Address Chart Street Address 5470 HESPERUS DRIVE COLUMBIA, MD. 21044	DETAIL SHEET WARYLAND REGISTERED PROFESSIONAL ENGINEER NO. 45261 NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN. NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS. DETAIL SHEET "REVISED SITE DEVELOPMENT PLAN" AS-BUILT LONGFELLOW ELEMENTARY SCHOOL CLASSROOM ADDITION AND PARKING LOT ADDITION PARCEL No.: 261 TAX MAP No.: 29 GRID NO.: 18
DATE Ors Lot Number 261 PROJECT LONGFELLOW EL	NNING BOARD OF HOWARD COUNTY         JULY 11, 2013         JULY 11, 2013         Address Chart         Address Chart         Street Address         5470 HESPERUS DRIVE         COLUMBIA, MD. 21044         Section/Area       Parcels         LEMENTARY SCHOOL       SECTION/AREA       PARCELS	DETAIL SHEET WARYLAND REGISTERED PROFESSIONAL ENGINEER NO. 45261 NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN. NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS. DETAIL SHEET "REVISED SITE DEVELOPMENT PLAN" AS-BUILT LONGFELLOW ELEMENTARY SCHOOL CLASSROOM ADDITION AND PARKING LOT ADDITION PARCEL NO.: 261 TAX MAP NO.: 29 GRID NO.: 18





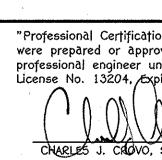




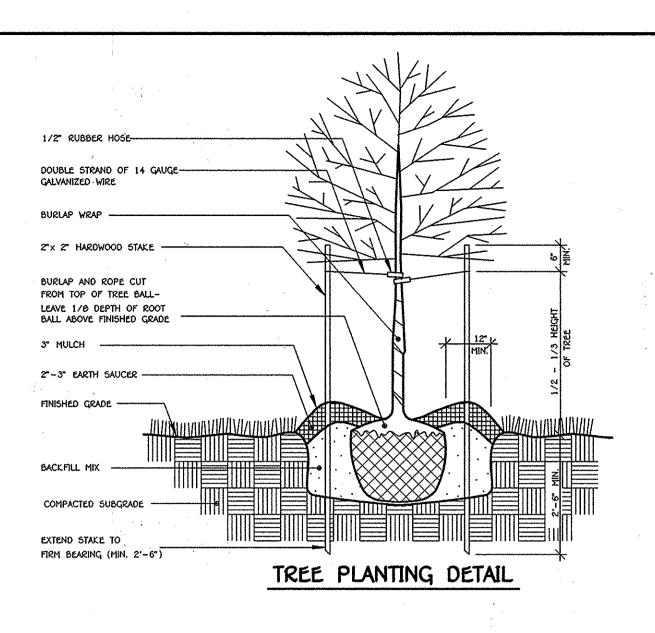
SCHATTS:

Civil Engineers, Planners, Landscape Architects, Surveyors 704 Severnside Ave., Severna Park, MD 21146 410-987-3456 A Woman-Owned, Service Disabled Veteran Owned Small Business

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BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS. BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS", (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT

BID SHALL BE BASE ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS

ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.

POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE).

PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED.

### PLANTING NOTES:

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND LANDSCAPE MANUAL AND IS TO BE USED FOR PLANTING ONLY. LANDSCAPING SHALL BE PROVIDED AS SHOWN ON THIS PLAN SHEET. NO SURETY IS REQUIRED SINCE THIS IS A HOWARD COUNTY BOARD OF EDUCATION PROJECT.

2. CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK. ALL GENERAL NOTES FROM SHEET 1, SHALL APPLY.

3. FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK, EVEN WHERE PLANT LOCATIONS ARE DIMENSIONED. CONTACT CONSTRUCTION MANAGER IF ANY RELOCATION ARE REQUIRED.

4. PLANT QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PERCEDENCE

5. ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE A.A.N. SPECIFICATIONS, AND BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

6. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED OR MULCHED SHALL BE SEEDED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

7. ALL EXPOSED EARTH WITHIN THE LIMITS OF THE PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.

8. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF SOIL OR DRAINAGE CONDITIONS ARE ENCOUNTERED WHICH MAY BE DETRIMENTAL TO THE GROWTH OF PLANTS.

9. NO SUBSTITUTION SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER OR HIS REPRESENTATIVE.

10. REFER TO OTHER SITE DWGS. FOR ADDITIONAL SEEDING REQUIREMENTS.

Note: THERE IS NO LANDSCAPING SURETY FOR THE LANDSCAPE PLAN.

NOTE: TREE AND SHRUB TYPES ARE ONLY AN RECOMMENDATION, THESE MAY BE REVISED TO A COUNTY APPROVED EQUIVALENT FROM THE HOWARD COUNTY LANDSCAPE MANUAL. "THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL."

HIN 24 HOURS									
, <u>U</u>	PPER LEVEL	<u>6.67'</u>	IDOR AND STORA		EX.				ADMIN
ved by me, and	y that these docume that I am a duly lice the State of Maryland ember 3, 2014."	ensed	DATE	BUILT PLAI	DESCRIPTION REVISION BLOCK	SCAL	HOWARD COUNT 10910 M Ellicott Ci Atten	EPARED FOR Y PUBLIC SCHOOL SYST aryland Route 108 ty, Maryland 21042 tion Bruce Gist 0-313-6805	EM Lo
e	SSYONA STONA		Director - Depar Chief, Division of	RTMENT OF PLANKI	and Zoning	7/31/13 7/31/13 7/26/13 Date 7/26/13	1355 PICC ROCK TEL	R ILKOVITCH ARCHITECTS ARD DRIVE, SUITE 200, VILLE, MD 20850 301-770-0177 301-330-3224	S PRC LOI PL PB
							· · ·		

SCHEDULE A PERIMETER LANDSCAPE EDGE (P-#)								
PERIMETER	P1	P2	Р3	Ρ4				
CATEGORY	Non-Res. Adjacent to Roadway	Non-Res. Adjācenț țo Residențial	Non-Res. Adjacenț țo Residențial	Non-Res. Adjàcenț to Non-Res				
LANDSCAPE TYPE	B	Ē	E	A				
LINEAR FEET OF PERIMETER	243.69'	120.00'	110.00'	195.00'				
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO				
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	NO	YE5 (98')	YE5 (173')	YES (195')				
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	5 6 0	0 0 0	0 0 0	0 0 0				
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	5 6 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0				

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING						
NUMBER OF PARKING SPACES	95					
NUMBER OF TREES REQUIRED (1/20 SP)	5					
NUMBER OF TREES PROVIDED						
SHADE TREES	5					
OTHER TREES (2:1 SUBSTITUTION)	· · · · · · · · · · · · · · · · · · ·					

PLANT LI	51				
QTY.	KEY	BOTANICAL NAME COMMON NAME	SIZE	CONT.	REMARKS
TREES - DEC	CIDUOUS S	SHADE	,	51 51	
5	ARF	Acer x freemanii 'Autumn Blaze'	3" - 3-1/2" cal.	B & B	Seedless
×		Freeman Maple			
5	LS	Acer rubrum 'October Glory'	2-1/2" - 3" cal.	B&B	
		October Glory Red Maple		· 	
TREES - EVE	RGREEN				<b> </b>
6	LCY	Cuppressocyparis leylandi	6' - 8' Ht.	B & B	
		Leyland Cypress			

DEVELOPER'S / BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE

MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION

ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED

PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE

N, 5

e . N



EX. ROOF +28.00

TOP WALL +16.67'

UPPER LEVEL +2.00'

— EX. LOWER LEVEL —4.66'

MAIN LEVEL 0.00'

-PROP. MUSIC AND MECH. ROOMS

AS-BUILT ENGINEER CONSULTANT CERTIFICATION

MARYLAND REGISTERED NO. 45261

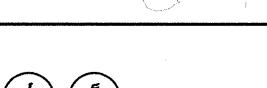
APPROVED PLANNING BOARD OF HOWARD COUNTY DATE JULY 11, 2013

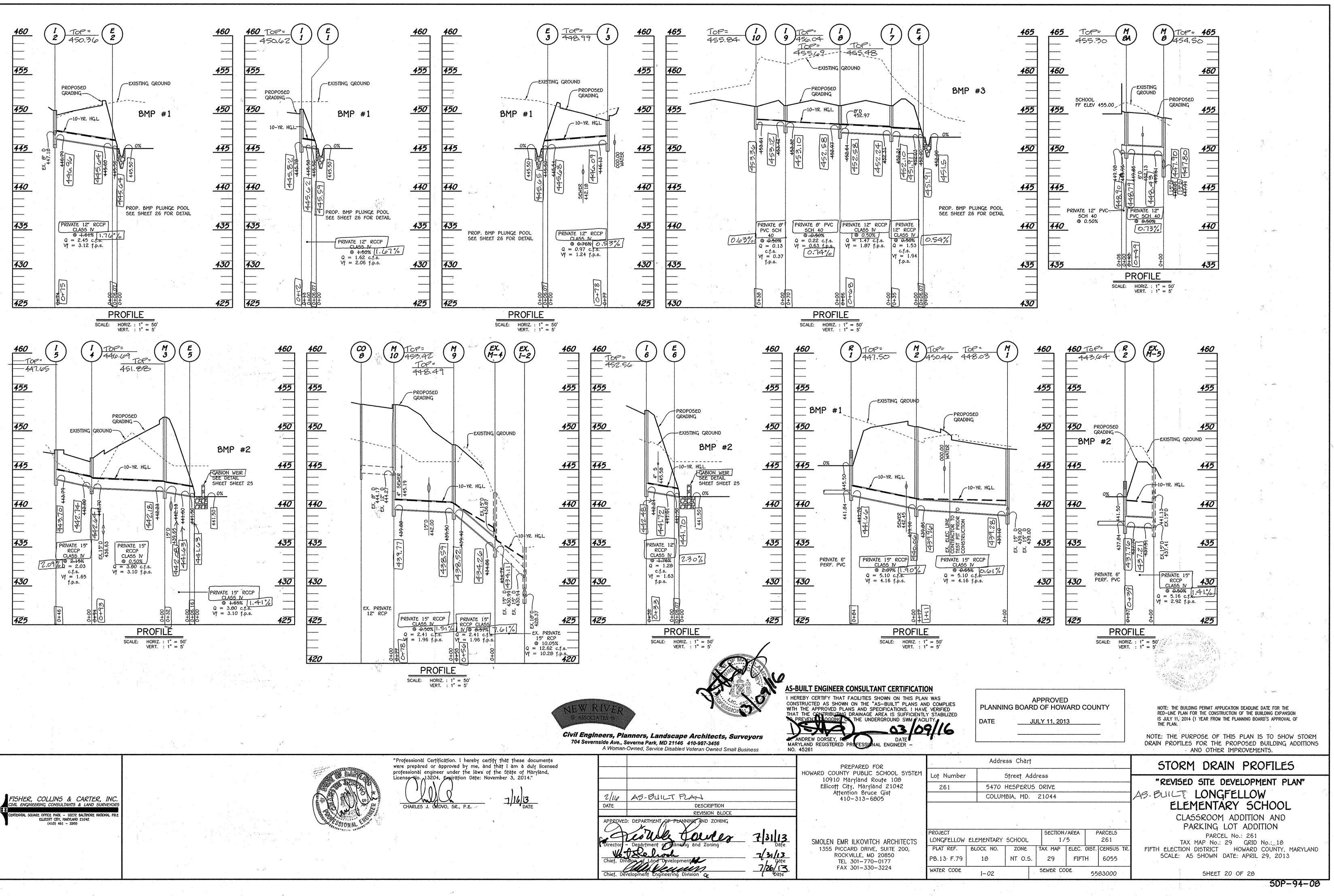
NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN.

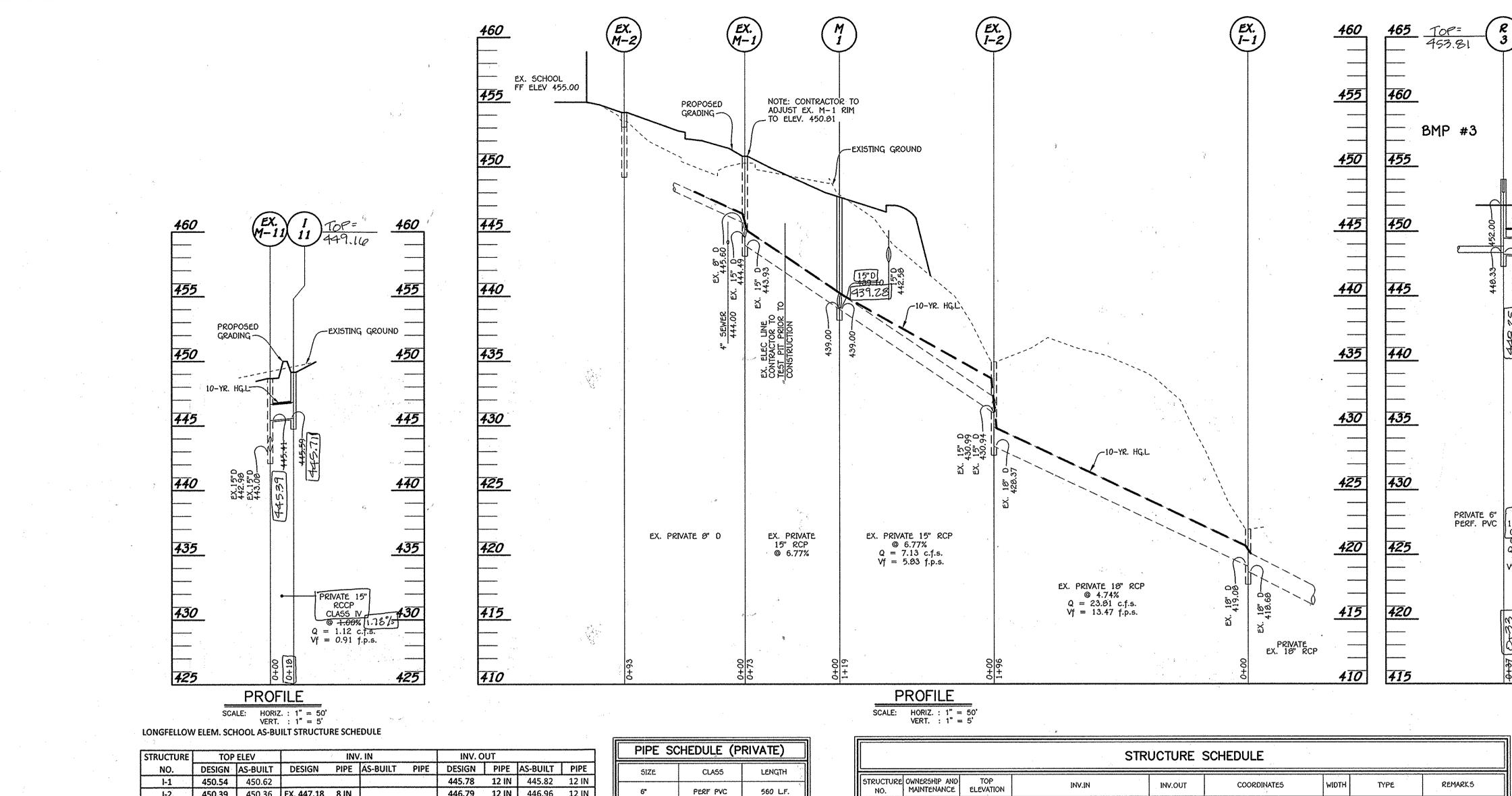
NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS.

Address Chart						HANDICAP RAMP ENLARGEMENT AND DETAIL SHEET
Lot Number		Street Add	ress			"REVISED SITE DEVELOPMENT PLAN"
261	5470	HESPERUS	DRIVE			
	COLUM	BIA, MD.	21044		J	AS-BUILT LONGFELLOW
· · · · · · · · · · · · · · · · · · ·		*			· · · ·	ELEMENTARY SCHOOL
						CLASSROOM ADDITION AND
PROJECT LONGFELLOW E	LEMENTARY	SCHOOL	SECTION	1 .	PARCELS 261	PARKING LOT ADDITION PARCEL No.: 261 TAX MAP No.: 29 GRID No.: 18
PLAT REF.	BLOCK NO.	ZONE	ΤΑΧ ΜΑΡ	ELEC. DIST.	CENSUS TR.	FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
PB.13 F.79	18	NT 0.5.	29	FIFTH	6055	SCALE: AS SHOWN DATE: APRIL 29, 2013
WATER CODE	I-02	LI	SEWER CC	DDE 55	583000	SHEET 19 OF 28

TO THE DEPARTMENT OF PLANNING AND ZONING.







51 L.F.

<del>429</del>-L.F.

<del>54-</del>-F.

[301 L.F.]

\_

<del>716 L.F.</del>

STRUCTURE	TOP	ELEV		INV	/. IN		INV. OUT			
NO.	DESIGN	AS-BUILT	DESIGN	PIPE	AS-BUILT	PIPE	DESIGN	PIPE	AS-BUILT	PIPE
1-1	450.54	450.62				·	445.78	12 IN	445.82	12 IN
1-2	450.39	450.36	EX. 447.18	8 IN			446.79	12 IN	446.96	12 IN
1-3	449.73	448.99					446.13	12 IN	446.09	12 IN
1-4	446.60	446.69	442.80	15 IN	442.74	15 IN	442.70	15 IN	442.64	15 IN
I-5	447.64	447.65					443.79	15 IN	443.70	15 IN
I-6	452.71	452.56					442.24	12 IN	442.48	12 IN
1-7	456.04	455.48	452.31	12 IN	452.24	12 IN	452.21	12 IN	452.10	12 IN
1-8	456.04	455.69	452.97	8 IN	452.71	8 IN	452.64	12 IN	452.24	12 IN
	• •		452.97	8 IN	452.58	8 IN				¢.₹
1-9	456.04	456.04	453.42	8 IN	453.12	8 IN	453.32	8 IN	453.10	8 IN 🔇
I-10	455.93	455.84		te starte			453.61	8 IN 1	453.36	8 IN
I-11	449.15	449.16		1.	an a		445.59	15 IN	445.74	15 IN
I-12	442.00	442.14	437.88	15 IN	437.76	15 IN	437.88	15 IN	437.65	15 IN
					н.					
M-1	447.67	448.03	439.10	15 IN	439.28	15 IN	EX. 439.00	15 IN		
	· .		EX. 439.00	15 IN						
M-2	450.53	450.46	439.96	15 IN	440.06	15 IN	439.86	15 IN	439.96	15 IN
M-3	451.75	451.88	442.23	15 IN	442.10	15 IN	442.13	15 IN	442.08	15 IN
M-8A	455.20	455.30	449.95	12 IN	448.90	12 IN	449.85	12 IN	448.79	12 IN
M-8	454.50	454.50	449.61	12 IN	. 448.43	12 IŅ	447.91	15 IN	447.80	15 IN
			448.01	15 IN	447.90	15 IN	1			
M-9	448.20	448.49	439.50	15 IN	438.59	15 IN	439.40	15 IN	438.52	15 IN
M-10	453.36	453.42	EX. 444.17	8 IN			439.88	15 IN	439.77	15 IN
			EX. 444.27	12 IN		· .				
<				·						
R-1	447.50	447.50	441.83	6 IN	0.00	6 IN	441.70	15 IN	441.66	15 IN
R-2	443.50	443.64	437.83	6 IN	0.00	6 IN	437.70	15 IN	437.76	15 IN
R-3	454.00	453.81	448.33	6 IN	0.00	6 IN	448.20	15 IN	448.25	15 IN
							·	1 .		
E-1	446.58		445.58	12 IN	445.62	12 IN	445.50	12 IN	445.59	12 IN .
E-2	446.60	5. <b>-</b> 1	445.60	12 IN	445.64	12 IN	445.50	12 IN	445.64	12 IN
E-3	446.54	1 : -	445.54	12 IN	445.68	12 IN	445,50	12 IN	445.65	12 IN
E-4	453.03	-	452.03	12 IN	451.91	12 IN	452.00	12 IN	451.91	12 IN
E-4A	452.50	-					452.00	6 IN	102.42	6 IN
E-5	442.85	-	441.60	15 IN	441.63	15 IN	441.50	15 IN	441.63	15 IN
E-6	442.61	-	441.61	12 IN	441.72	12 IN	441.50	12 IN	441.70	18 IN
					امر روا					

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PIPE SC	CHEDULE (P
SIZE	CLA55
6*	PERF PVC
6*	PVC, 5CH. 40
8'	PVC, 5CH. 40
12"	PVC, 5CH. 40
12"	RCCP, CLASS IV
15"	RCCP, CLASS IV

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El Come

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

		STRUCTURE SCHEDULE									
	STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV.IN	INV.OUT	COORDINATES	WIDTH	TYPE	REMARKS		
· ·	I-1	PRIVATE	450.54**		445.78 (12")	N: 507049.15 E 833434.55	2.5'	A-5 INLET	D - 4.01		
	I-2	PRIVATE	450.39**	447.18 (EX. 8")	446.79 (12")	N 507065.85 E 833345.25	2.5'	A-5 INLET	D ~ 4.01		
08 LF	I3	PRIVATE	449.73**		446.13 (12")	N 507066.33 E 033530.31	3.42'	5 COMBINATION	D - 4.32		
FALF]	i-4	PRIVATE	446.60**	442.80 (15")	442.70 (15")	N 507130.46 E 033631.56	2.5'	A~5 INLET	D - 4.01		
	1-5	PRIVATE	447.64**	<b>–</b> `	443.79 (15")	N 507129.27 E 833585.58	2.5'	A-5 INLET	D - 4.01		
	I-6	PRIVATE.	452.71 米米		442.24 (12")	N 507292.20 E 833640.29	2.5'	A-5 INLET	D - 4.01		
111.5.	I-7	PRIVATE	456.04***	452.31 (12")	452.21 (12")	N 507547.70 E 833557.05	2.58'	5 INLET	D - 4.22 & D-4.93		
	1-8	PRIVATE	456.04***	452.97 (Ø') 452.97 (Ø')	452.64 (12")	N 507546.27 E 033490.91	2.58'	5 INLET	D - 4.22 & D-4.93		
	I-9	PRIVATE	456.04***	453.42 ( <i>B</i> °)	453.32 (8")	N 507544.62 E 833420.61	2.58'	5 INLET	D - 4.22 & D-4.93		
	I-10	PRIVATE	455.93***		453.61 (81)	N 507510.87 E 833404.09	2.58	5 INLET	D - 4.22 & D-4.93		
	I-11	PRIVATE	449.15***		445.59 (15")	N 507314.79 E 033757.77	2.58'	s inlet	D - 4.22 & D-4.93		
	M-1	PRIVATE	447.67	439.10 (15") 439.00 (15")	439.00 (15")	N 507152.43 E 833598.54	4	OFFSET MANHOLE	G - 5.12		
	M-2	PRIVATE	450.53	439.96 (15")	439.06 (15")	N 507107.1 E 833490.66	4'	STD. MANHOLE	G - 5.12		
	M-3	PRIVATE	451.75	442.23 (15")	442.13 (15")	N 507224.15 E 033630.03	4'	STD. MANHOLE	G - 5.12		
	1-12	HAVATE	442.00 ****	437,88 (15")	437.88 (15")	N 507607.05 E 833227.46	2,5'	DINLET	0-4.10		
	M-8A	PRIVATE	455.20	449.95 (12")	449.85 (12")	N 507452.00 E 033562.39	4'	STD. MANHOLE	G - 5.12		
	M-8	PRIVATE	454.50	449.61 (12") 448.01 (15")	447.91 (15")	N 507466.67 E 033600.56	4'	STD. MANHOLE	G - 5.12		
	M-9	PRIVATE	448.20	439.50 (15")	439.40 (15")	N 507207.33 E 833668.16	4'	STD. MANHOLE	G - 5.12		
	M-10	PRIVATE	453.36	444.17 (EX. 8") 444.27 (EX. 12")	439.88 (15")	N 507260.22 E 833612.19	4'	OFFSET MANHOLE	G - 5.12		
			¢			· ·					
	R-1	PRIVATE	447.50***	441.83 (6")	441.70 (15")	N 507031.45 E 833454.11	3'	MOD. K INLET	SEE SHEET 24		
	R-2	PRIVATE	443.50***	437.03 (6")	437.70 (15")	N 507233.77 E 833706.78	3'	MOD. K INLET	SEE SHEET 24		
	R-3	PRIVATE	454.00***	448.33 (6")	448.20 (15")	N 507503.13 E 833604.98	3'	MOD. K INLET	SEE SHEET 24		
	E-1	PRIVATE	446.58	445.58 (12")	445.50 (12")	N 507035.88 E 833438.65	12"	CONC. END SECTION	D - 5.51		
	E-2	PRIVATE	446.60	445.60 (12")	445.50 (12")	N 507027.45 E 833406.83	12"	CONC. END SECTION	D - 5.51		
	E-3	PRIVATE	446.54	445.54 (12")	445.50 (12")	N 507026.67 E 833463.42	12"	CONC. END SECTION	D - 5.51		
	E-4	PRIVATE	453.03	452.03 (12")	452.00 (12")	N 507525.55 E 033504.49	12"	CONC. END SECTION	D - 5.51		
	E-4A	PRIVATE	452.50		452.00 (6")	N 507483.44 E 833592.80	6"	PVC PIPE	-		
	E-5	PRIVATE	442.85	441.60 (15")	441.50 (15")	N 507244.46 E 033663.29	15"	CONC. END SECTION	D - 5.51		
	E-6	PRIVATE	442.61	441.61 (12")	441.50 (12")	N 507263.80 E 833664.84	12"	CONC. END SECTION	D - 5.51		

米米 - DENOTES TOP OF CURB ELEVATION AT CENTERLINE OF INLET 米米米 - DENOTES GRATE ELEVATION

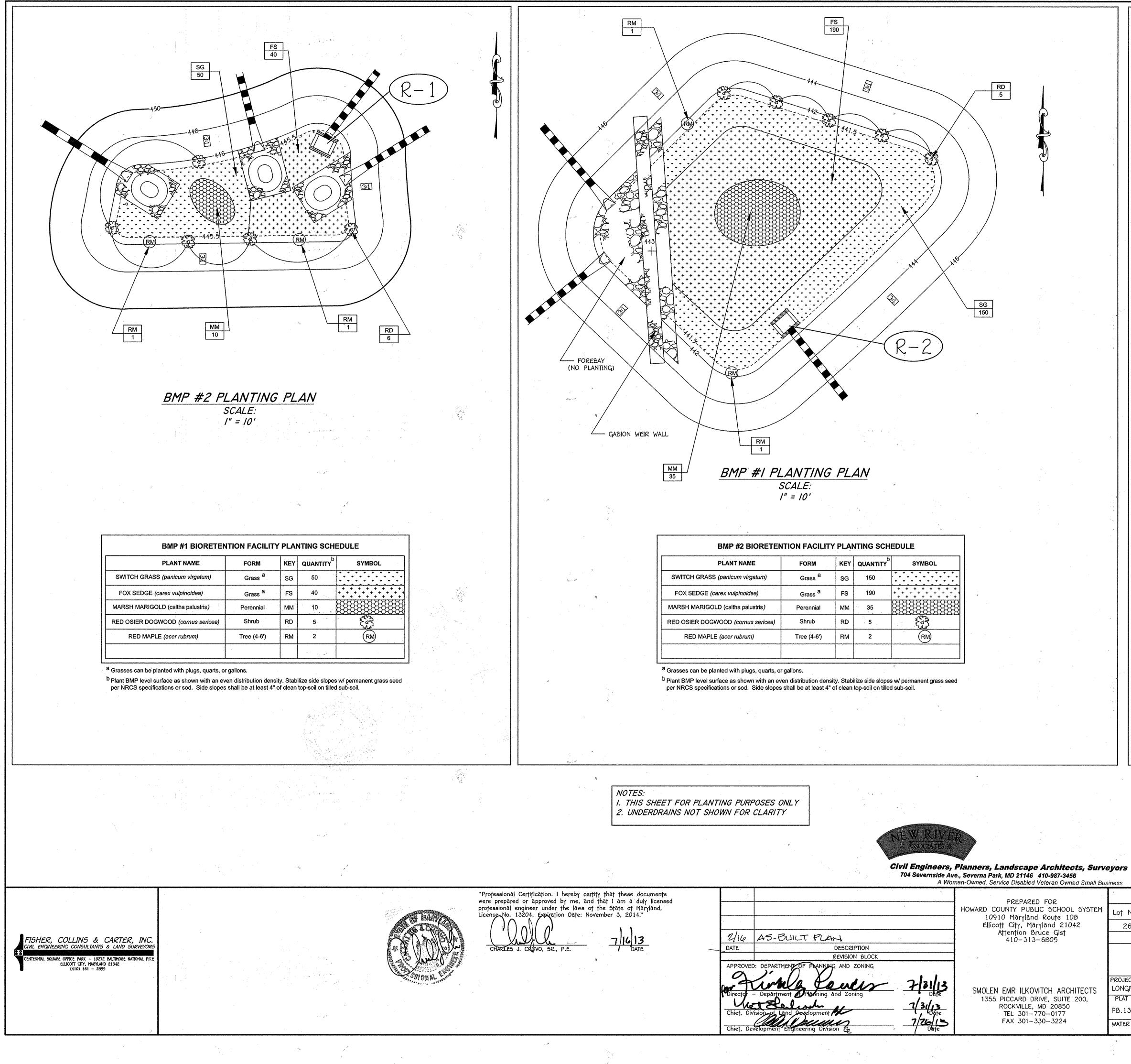
'S' INLETS SHALL HAVE RETICULAR GRATES.

"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed PREPARED FOR professional engineer under the laws of the State of Maryland. License Na. 13204, Expiration Date: November 3, 2014." HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 108 2/16 AS-BUILT PLAN Ellicott City, Maryland 21042 Attention Bruce Gist 1/G/14 KEVISE STRUCTURE SCHERULE 410-313-6805 7/10/13 DATE DATE DESCRIPTION CHARLES J. CROVO, SR., P.E. REVISION BLOCK APPROVED: DEPARTMENT OF PLANNING AND ZONING whiles Cours ter of 7/31/13 SMOLEN EMR ILKOVITCH ARCHITECTS Departr 1355 PICCARD DRIVE, SUITE 200, 2 VertShe 7/31/13 0ate 7/26/13 ROCKVILLE, MD 20850 TEL 301-770-0177 FAX 301-330-3224 Chief, Development Engineering Division &

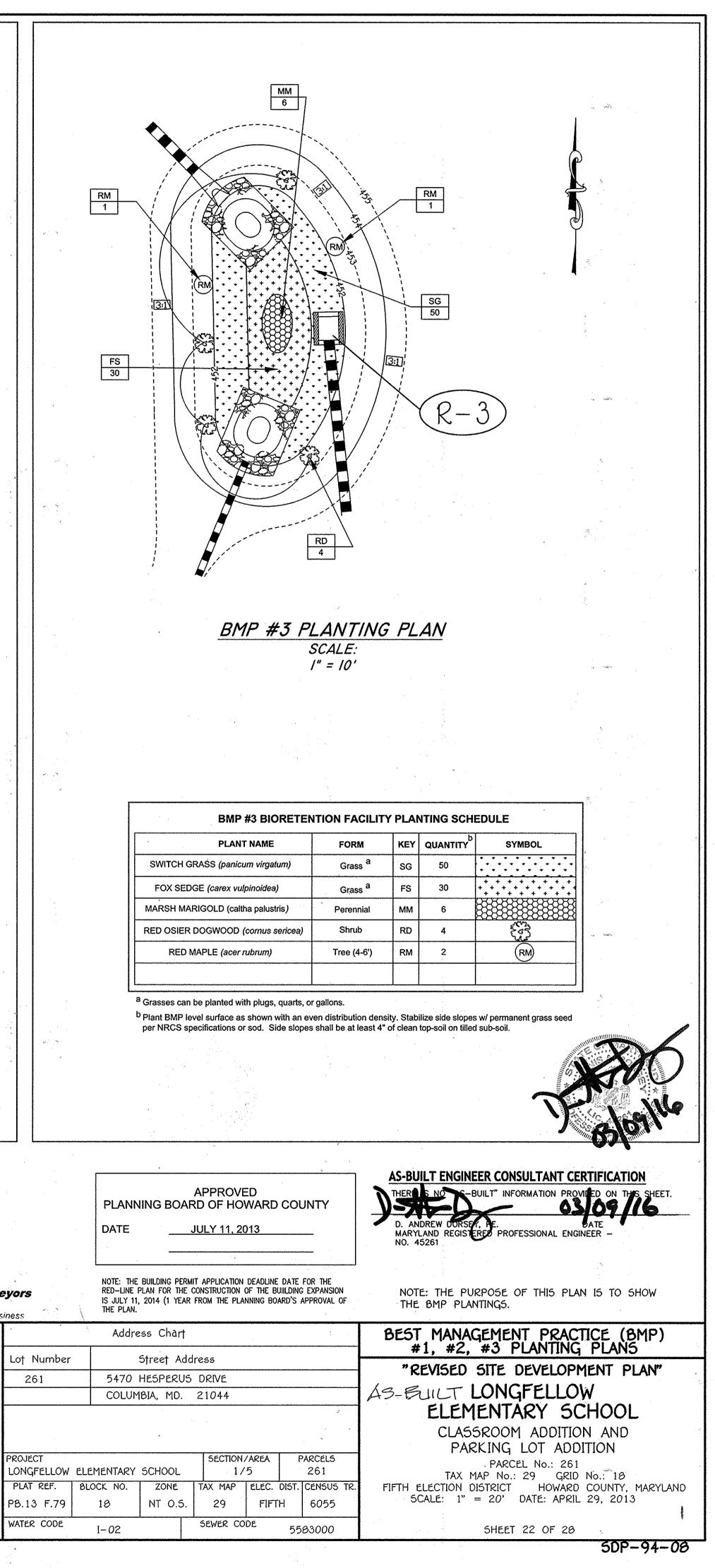
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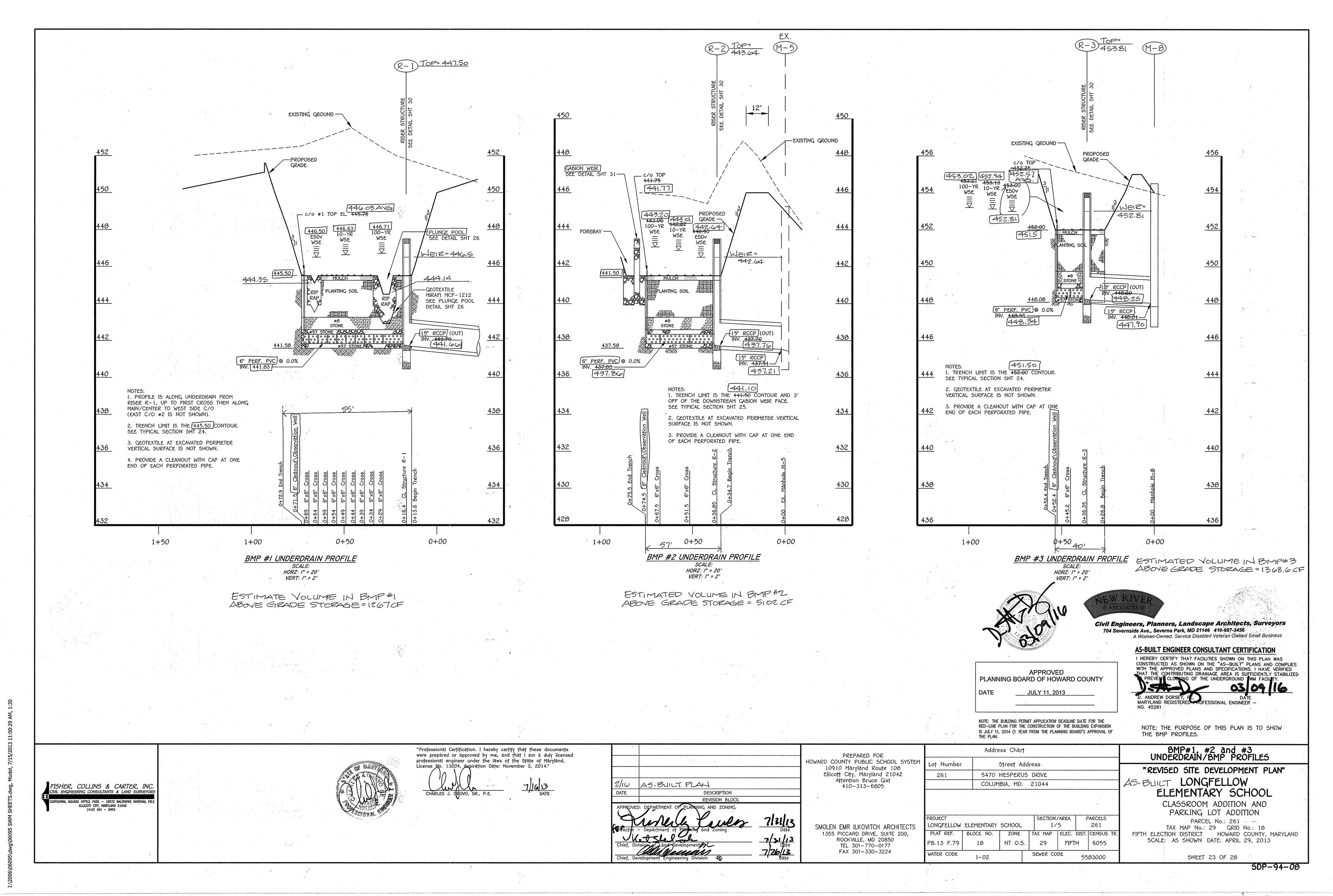
$ \begin{array}{c}                                     $	$ \begin{array}{c} EX.\\ M-11 \end{array} \qquad \begin{array}{c} EX.\\ M-6 \end{array} \qquad \begin{array}{c} EX.\\ M-5 \end{array} \qquad \begin{array}{c} EX.\\ M-4 \end{array} \qquad \begin{array}{c} 465 \end{array} \\ \end{array} $
	<u>460</u>
PROPOSED	455
412"D 479.01 449.43 10-YR. HG.L ≥N	EXISTING GROUND
	G.L 15"D 445.41 (10-YR. HG.L. 445
	15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0 15"0
PRIVATE PRIVATE 15" RCCP EX. PRIVATE 15" RCCP 15" RCCP CLASS IV CLASS IV CLASS IV 0 0.50% [1,4,9%] @ 1.76%	P EX. PRNATE EX. PRIVATE 15" EX. PRIVATE 15" 15" RCCP RCCP RCCP RCCP CLASS N CLASS N
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} \textcircled{(0)} 1.56\% \\ Q = 5.71 \\ c.f.s. \\ Vf = 4.65 \\ f.p.s. \\ \end{array} \begin{array}{c} \textcircled{(0)} 1.43\% \\ Q = 5.71 \ c.f.s. \\ Vf = 4.65 \ f.p.s. \\ \end{array} \begin{array}{c} \textcircled{(0)} 1.00\% \\ Q = 10.18 \ c.f.s. \\ Vf = 8.30 \ f.p.s. \\ \end{array} \begin{array}{c} \textcircled{(0)} 1.00\% \\ Q = 10.18 \ c.f.s. \\ Vf = 8.30 \ f.p.s. \\ \end{array} \right) $
	420
0+00 1+11 0+97	00+0 60+0 60+0 60+0 60+0 60+0 60+0 60+0
PROFILE	
SCALE: HORIZ. : 1" = 50' VERT. : 1" = 5'	
-	
	n an
NEWRIVER * ASSOCIATES *	
Civil Engineers, Planners, Landscape Arc. 704 Severnside Ave., Severna Park, MD 21146 410-9	hitects, Surveyors
A Woman-Owned, Service Disabled Vetera	n Owned Small Business
I HEREBY CERTIFY THAT FACILITIES SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COM WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIF	IED
THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STAB TO PREVENT CLUCCING OF THE UNDERGROUND SWM FACILITY.	BILIZED
D. ANDREW DORSEY, PE. DATE MARYLAND REGISTERED PROFESSIONAL ENGINEER - NO. 45261	Contraction of the second s
	NOTE: THE BUILDING PERMIT APPLICATION DEADLINE DATE FOR THE RED-LINE PLAN FOR THE CONSTRUCTION OF THE BUILDING EXPANSION
DATEJULY 11, 2013	IS JULY 11, 2014 (1 YEAR FROM THE PLANNING BOARD'S APPROVAL OF THE PLAN. NOTE: THE PURPOSE OF THIS PLAN IS TO SHOW PROFILES
	AND DETAILS FOR THE PROPOSED BUILDING ADDITIONS AND OTHER IMPROVEMENTS.
Address Chart Lot Number Street Address	STORM DRAIN PROFILES
261 5470 HESPERUS DRIVE COLUMBIA, MD. 21044	AS-BUILT LONGFELLOW
	ELEMENTARY SCHOOL CLASSROOM ADDITION AND
PROJECT SECTION/AREA PARCEI LONGFELLOW ELEMENTARY SCHOOL 1/5 261	PARKING LOT ADDITION
PLAT REF.BLOCK NO.ZONETAX MAPELEC. DIST.CENSPB.13F.7918NT O.S.29FIFTH605	US TR. FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
WATER CODE 1-02 SEWER CODE 558300	50 SHEET 21 OF 28 50P-94-08
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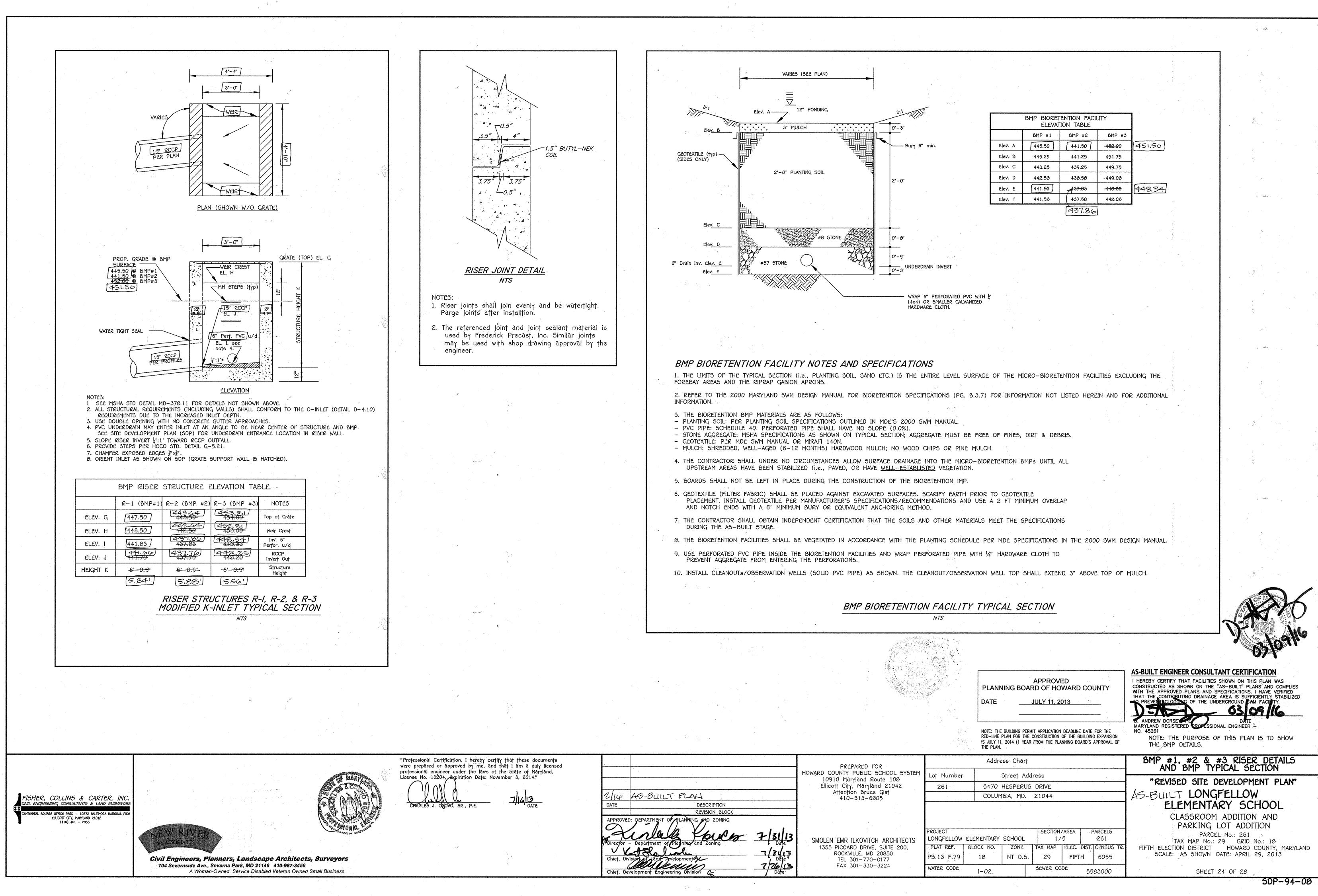
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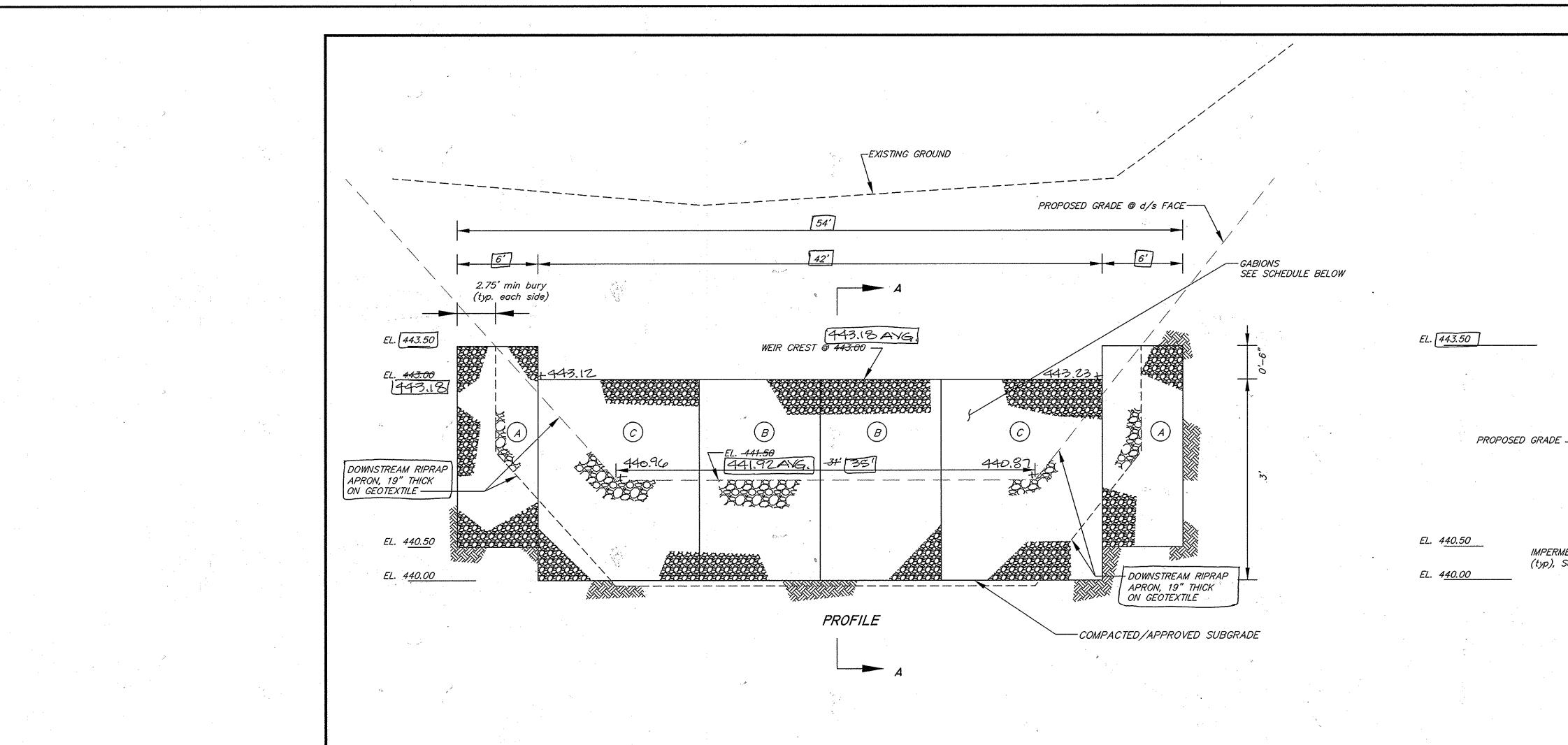
			man-Owned, Service Disabled Veteran Owned Small Bus
on. I hereby certify that these documents oved by me, and that I am a duly licensed nder the laws of the State of Maryland,	•		PREPARED FOR
piration Date: November 3, 2014."	× .		HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 108 Ellicott City, Maryland 21042
7/16/13	2/16	AS-BUILT PLAN	Attention Bruce Gist 410-313-6805
SR., P.E. DATE	DATE	DESCRIPTION	
		REVISION BLOCK	
	Director Chief, Div	DEPARTMENT OF PLANNING AND ZONING Department of Planning and Zoning Department of Planning and Zoning Vision of Land Development A Velopment Engineering Division & 7/26/13 Date 7/26/13 Date	SMOLEN EMR ILKOVITCH ARCHITECTS 1355 PICCARD DRIVE, SUITE 200, ROCKVILLE, MD 20850 TEL 301-770-0177 FAX 301-330-3224







]	BMP BIORETENTION FACILITY ELEVATION TABLE								
-	BMP #1 BMP #2 BMP #3								
451.50	-4 <del>52.0</del> 0	441.50	445.50	Elev. A					
	451.75	441.25	445.25	Elev. B					
	449.75	439.25	443.25	Elev. C					
	449.08	438.58	442.58	Elev. D					
448.3	<del>-148:33</del>	A37.83	441.83	Elev. E					
	448.08	437.58	441.58	Elev. F					
		[1378/]							



overlap where applicable.

GABION/FOREBAY WEIR OUTFALL NOTES

(including the buried top of gabions) including the impermeable layer on the upstream buried face.

5. Gabions shall be carefully placed with no damaged wire. Earth foundation shall be firm. Fill soil around gabions shall be well–compacted (95%).

6. Gabions shall be fastened together with lacing or rings per manufacturer's recommendations/specifications. Rings shall be per ASTM A975–97 section 6.3. Spacing shall not exceed 6". See Maccaferri's Gabion installation guide.

7. Minimum Gabion embedment into side slope is a 2'-9" bury.

8. Additional gabions may be needed to meet the minimum embedment into the side slopes. Gabions can be "nested". Els de BMP #2 FOREBAY GABION WEIR @ E-5 & E-6 DETAIL SCALE: en en babler HORZ: I" = 5' VERT: |" = |'



FISHER, COLLINS & CARTER, INC. CML ENGINEERING CONSULTANTS & LAND SURVEYORS . Square office park - 10272 baltimore national pik ellicott city, maryland 21042 (410) 461 - 2855



**Civil Engineers, Planners, Landscape Architects, Surveyors 704 Severnside Ave., Severna Park, MD 21146 410-987-3456** A Woman-Owned, Service Disabled Veteran Owned Small Business

1. Gabions shall be manufactured by Maccaferri Gabions Inc. or approved equal. The installation shall follow the manufacturer's specifications and installation guidelines.

2. The gabion baskets shall be PVC coated and filled with clean 4" – 7" stone. Gabion stone shall be carefully placed as to create a tight interlocking stone wall with minimal voids.

3. One sheet of 8 mil or greater vinyl/plastic sheeting or MIRAFI MCF—1212 shall be placed on the buried upstream (forebay side) face of the gabion baskets next to the filter fabric. Use 2 ft

# 4. Geotextile fabric (Mirafi 600x or approved equal) shall be placed against all buried gabions

	GAE	BMP BION Sabion
	MANUFAC CODE	CTURER DIMEN
× .	A	6'x3'x
	B	9'x3'x
	$\bigcirc$	12'x3'



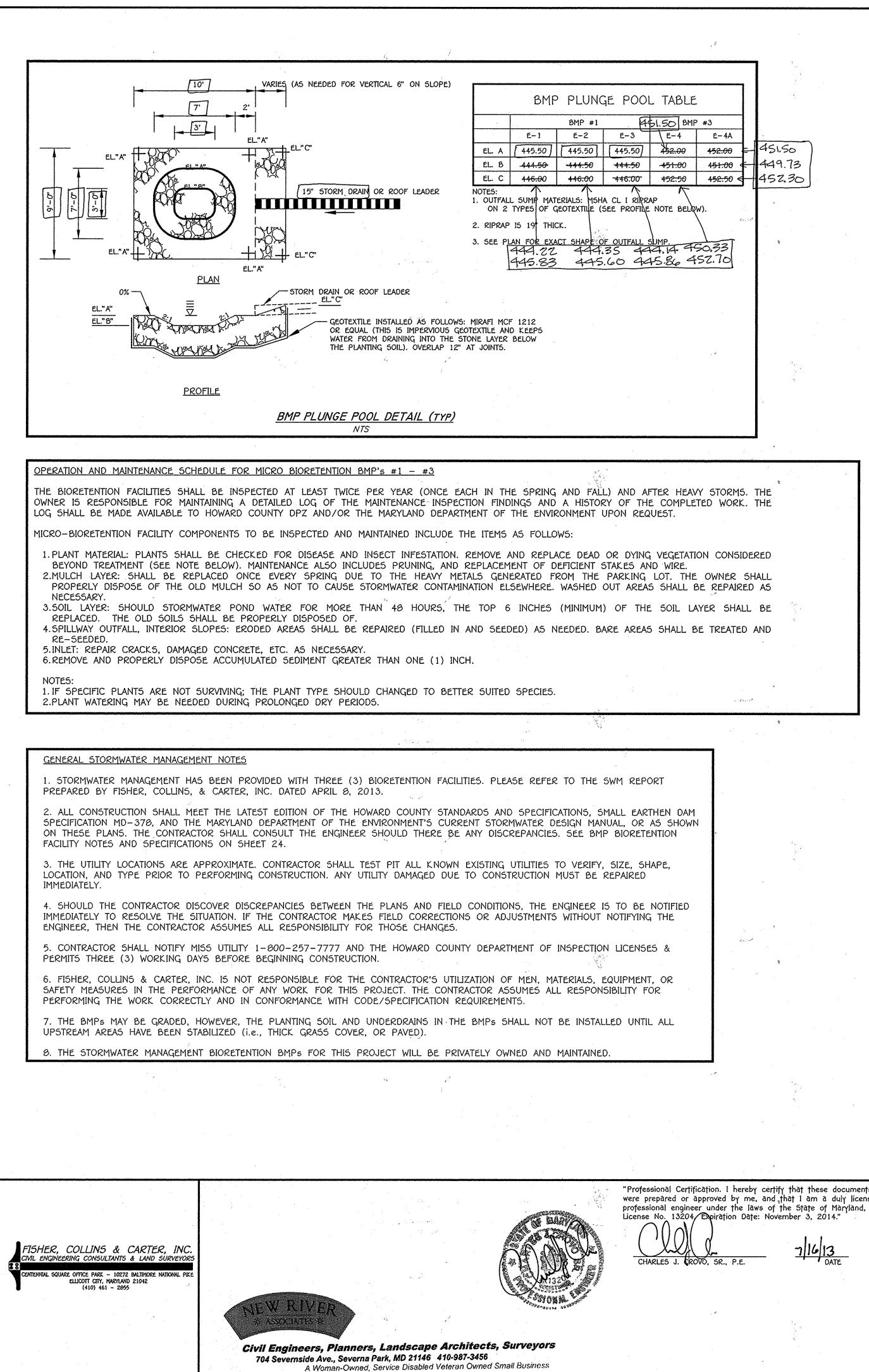
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"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2014." CHARLES J. CROVO, SR., P.E.	2/16 AS-BUILT PLAN DATE DESCRIPTION REVISION BLOCK	PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Bruce Gist 410-313-6805
	APPROVED: DEPARTMENT OF PLANNING AND ZONING Director - Department of Planning and Zoning Chief, Division of Land Development M Chief, Development Engineering Division & Chief, Development Engineering Division & Date 7/26/15 Bate	SMOLEN EMR ILKOVITCH ARCHITECTS 1355 PICCARD DRIVE, SUITE 200, ROCKVILLE, MD 20850 TEL 301-770-0177 FAX 301-330-3224

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4. 	CEXISTING GROUND	· .	· •		9					
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		GABIONS SEE SCHE	DULE BELOW							7
WEIR CRES EL. <u>443-01</u> (443.18	e_ \ /		JOLL DLLOW					والمعنى ور	÷	۷
AVE		J <u> </u>	440.92							
			@ 0.0%, EL. 441 PRAP ON FILTER I	<del>.50</del> FABRIC,				X		
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"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed

License No. 13204/Expiration Date: November 3, 2014."

AS-BUILT PLAN

APPROVED: DEPARTMENT OF PDANNING AND ZONING

DATE

**\S-BUILT ENGINEER CONSULTANT CERTIFICATION** I HEREBY CERTIFY THAT FACILITIES SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS. I HAVE VERIFIED THAT THE CONTRIBUTING DRAINAGE AREA IS SUFFICIENTLY STABILIZED

MARYLAND REGISTERED

731.13

7/31/13

776/3

NO: 45261

DESCRIPTION

**REVISION BLOCK** 

ONAL FNGINEER

APPROVED PLANNING BOARD OF HOWARD DATE JULY 11, 2013

PREPARED FOR HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Bruce Gist 410-313-6805

SMOLEN EMR ILKOVITCH ARCHITECTS 1355 PICCARD DRIVE, SUITE 200, ROCKVILLE, MD 20850 TEL 301-770-0177 FAX 301-330-3224

# Pond MD-378: N.R.C.S. - JANUARY 2000 CONSTRUCTION SPECIFICATIONS FOR SMALL EARTHEN DAMS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation
Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and
other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. All trees shall be cleared and
grubbed within 15 feet of the toe of the embankment.
Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated
on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a
25-foot radius around the inlet structure shall be cleared.
All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his
representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment, and cut off trench shall conform to Unified Soil Classification GC, SC, CH, or CL and must have at least 30% passing the #200 sieve. Consideration may be given to the use of other materials in the embankment if designed by a geotechnical engineer. Such special designs must have construction supervised by a geotechnical engineer. Materials used in the outer shell of the embankment must have the capability to support vegetation of the quality required to prevent erosion of the embankment.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment. Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of heavy equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble, yet not be so wet that water can be squeezed out.

The minimum required density shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99 (Standard Proctor).

Cut Off Trench — The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Embankment Core — The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet. The height shall extend up to at least the 10 year water elevation or as shown on the plans. The side slopes shall be 1 to 1 or flatter. The core shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. In addition, the core shall be placed concurrently with the outer shell of the embankment.

Structure Backfill Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed

to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe. Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 313 as modified. The mixture shall have a 100-200 psi; 28 day un-confined compressive strength.

The flowable fill shall have a minimum pH of 4.0 and a minimum resistivity of 2,000 ohm-cm. Material shall be placed such that a minimum of 6" (measured perpendicular to the outside of the pipe) of flowable fill shall be under (bedding), over and, on the sides of the pipe. It only needs to extend up to the spring line for rigid conduits. Average slump of the fill shall be 7" to assure flowability of the material. Adequate measures shall be taken (sand bags, etc.) to prevent floating the pipe. When using flowable fill, all metal pipe shall be bituminous coated. Any adjoining soil fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material shall completely fill all voids adjacent to the flowable fill zone. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a structure or pipe unless there is a compacted fill of 24" or greater over the structure or pipe. Backfill material outside the structural backfill (flowable fill) zone shall be of the type and quality conforming to that specified for the core of the embankment or other embankment materials.

Pipe Conduits All pipes shall be circular in cross section.

Site Prep

areas.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe: 1. Materials — Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM C-361.

2. Bedding — Reinforced concrete pipe conduits shall be laid in a concrete bedding / cradle for their entire length. This bedding / cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 50% of its out-side diameter with a minimum thickness of 6 inches. Where a concrete cradle is not needed for structural reasons, flowable fill may be used as described in the "Structure Backfill" section of this standard. Gravel bedding is not permitted.

3. Laying pipe — Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 4 feet from the riser. 4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings. Plastic Pipe — The following criteria shall apply for plastic pipe:

1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4" - 10" inch pipe shall meet the requirements of AASHTO M252 Type S, and 12" through 24" inch shall meet the requirements of AASHTO M294 Type S.

2. Joints and connections to anti-seep collars shall be completely watertight. 3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support. 4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings. Drainage Diaphragms - When a drainage diaphragm is used, a registered professional engineer will supervise the design and construction inspection.

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock Riprop Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration, Standard Specifications for Construction and Materials, Section 311. Geotextile shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration

Care of Water During Construction

Stabilization

Standard Specifications for Construction and Materials, Section 921.09, Class C.

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, in-stall, operate, and maintain all necessary pumping and other equipment required for removal of water from various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained be-low the bottom of the excavation at such locations which may require draining the water sumps from which the water shall be pumped.

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Natural Resources Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the ac-companying drawings.

Construc	and Sediment Cor tion operations w ig pollution abate	ill be carried o	ut in such o ollowed. Cons	a manner tha struction plar	it erosion is shall de	will be controlled stail erosion and	d and water and air pollution minimized. State and local laws sediment control measures.	
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00,	PLAT REF. PB.13 F.79	BLOCK NO. 18	ZONE NT 0.5.	TAX MAP 29	ELEC. DI	ST. CENSUS TR. 6055	FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 29, 2013	)
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DRAWINGS FOR \* \* \* \* 0.55 0.39 0.42 0.93 1.47 0.98 1.08 0.80 1.14 SIDEWALK SCORING PATTERN AT ENTRY. \* /\* \* \* \_ **≭`**∖\_ 1.05 0.44 0.46 1.27 2.48 2.88 1.82 0.52 1.32 ` 0.11 ж 0.89 0.60 0.56 1.08 2,54 4,70 4.74 2.15 0.28 /0.05 0,02 \* \* \*/ A.67P1 0.35 0.09 🕅 0.03 0.66 1.48 2.82 4.74 0.72 ж ж \* 1.84 1.78 2.22 1.58 0.91 0.88 1.86 6.13. 50PN 0.40 0.19 0.04 L - 0.02 / 0.01//3.64 / //3.50 *(***X**49 ) \* \* \* \* \* \* \* \*`√ 2.38 1.32 1.99 3.56 5 4.16 3.39 1.88 0.81 0.63 0.55 0.90 1.66 1.20 0.13 189 2/38  $0.03 \times 0.0$ 3.61 : 5.56 P4.16 2.88 1.83 49295 0.87 1.21 170.75 0.59 FF ELEV 454.96 1.18 4.54 **9**.60 4.19 2.70 1.98 3.04 5.08 1.84 3.04 4.83 0.67 \* \* \* /\* \* \* \* \* \* \* . \*• · · ()\*· 265ే 2.12 2.93 4.41 2.81 3.42 4.89 3.95 1.81 0.95 1.56 3.64 5.08 3.88 <u>3\* 2.98 3.65</u> -2.51 - 1.52 0:46 🔹 0:32 · 4.93/ Ø.16 1.56 1 1.24 2.93 4.12 4.65 3.66 4.86 1.55 2.58 2.67 1.11 0.83 4.04 4.73 2.78 1.31 1.19 2.48 3.87 3.13 · - - - + - - - - - + + +**●**₽1 2.16 2.79 1.70 8.04 + # # #452 - 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I hereby certify that these documents pproved by me, and that I am a duly licensed PREPARED FOR under the laws of the State of Maryland, HOWARD COUNTY PUBLIC SCHOOL SYSTEM ş Expiration Date: November 3, 2014." 10910 Maryland Route 108 Ellicott City, Maryland 21042 Attention Bruce Gist 2/16 AS-BUILT PLAN 410-313-6805 DESCRIPTION DATE VO, SR., P.E. REVISION BLOCK APPROVED: DEPARTMENT OF PLANNING AND ZONING 9 7/31/13 towns unlik SMOLEN EMR ILKOVITCH ARCHITECTS Date 1355 PICCARD DRIVE, SUITE 200, Kat Slelwa 7/31/13 ROCKVILLE, MD 20850 7/26/13 Date TEL 301-770-0177 Menun FAX 301-330-3224 **S**\$

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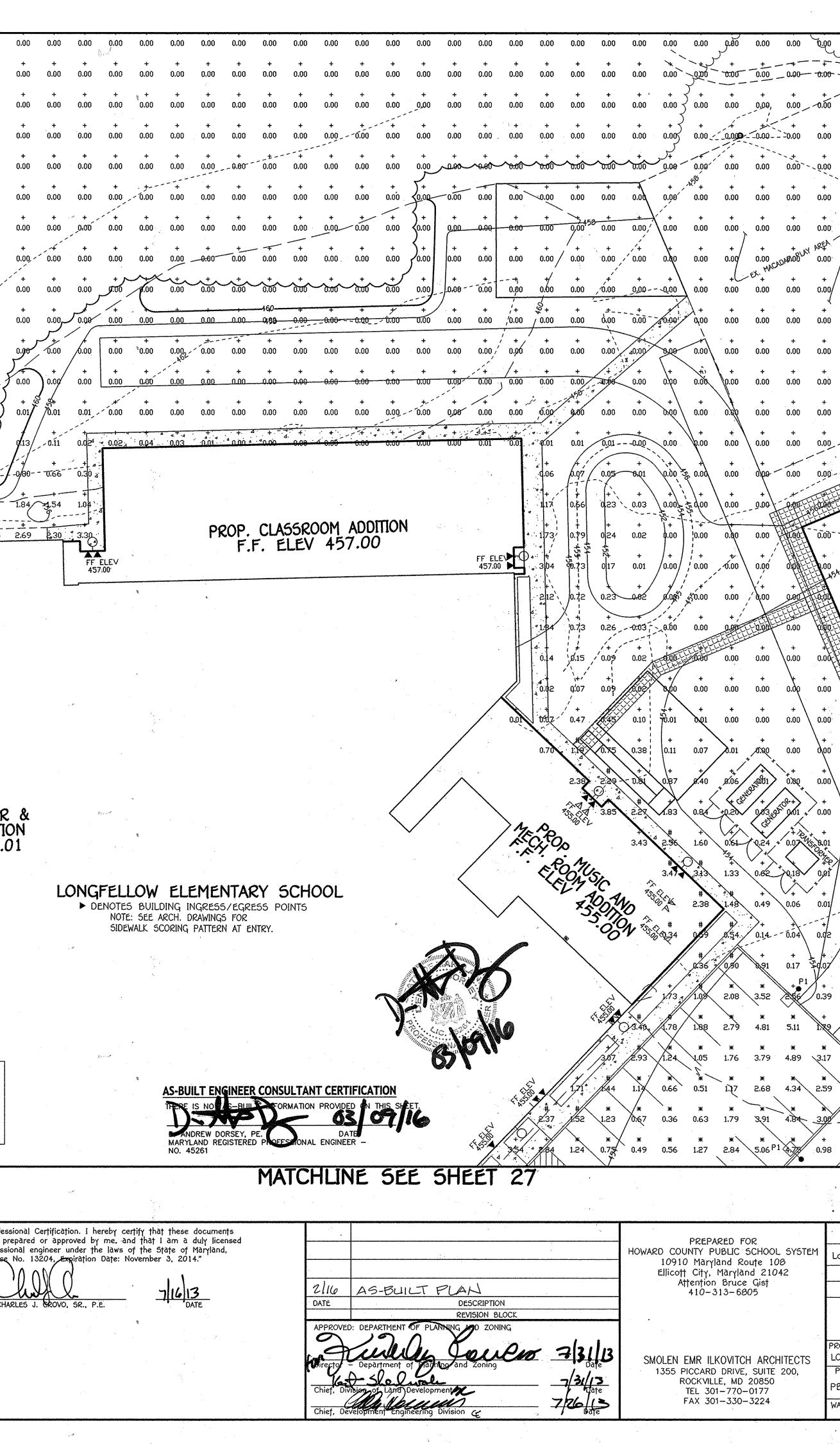
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**Civil Engineers, Planners, Landscape Architects, Surveyors** 704 Severnside Ave., Severna Park, MD 21146 410-987-3456 A Woman-Owned, Service Disabled Veteran Owned Small Business

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