

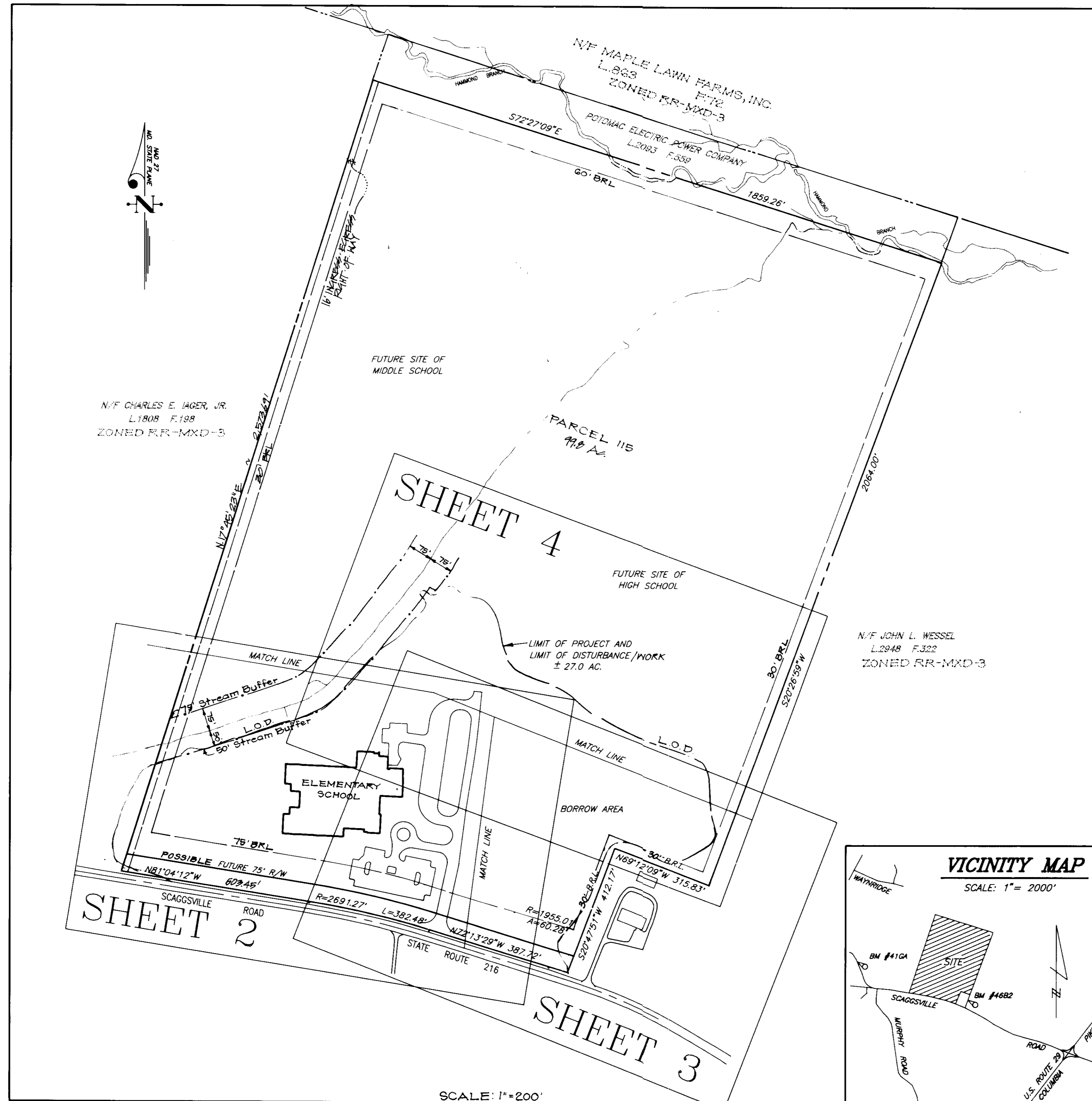
WESTERN ELEMENTARY SCHOOL NO. 2

FIFTH (5th) ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specification if applicable.
2. The contractor shall notify the Bureau of Engineering/Construction Inspection Division at (410) 313-1880 least five (5) working days prior to the start of work.
3. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
4. Project Background:
Location: Tax Map #41 & 46, Parcel 115
Zoning: RR-MXD-3
ZB/BA ref: NA
Election District: 5th Election District
Section/Area: N/A
Site Area: 99.8 Ac
Ref. Plans: WP-05-122; Council Resolution 06-1005
5. Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and Regulatory Signs shall be in place prior to the placement of any asphalt.
6. All plan dimensions are to the face of curb unless otherwise noted.
7. Topography was derived from plans prepared by Air Survey Corporation, Sterling, Va, dated 12/15/94.
8. Coordinates are based on NAD 83 Maryland Coordinate System as projected by Howard County Geodetic Control Sta Nos. 41 GA & 46 B2 (See 2,000 scale Vicinity Map for locations).
9. Public water and sewer is to be utilized. Contract No. 24-3452-D Patuxent Water Shed
10. Stormwater management is provided on-site by an interim extended detention/shallow marsh facility.
11. The wetland delineation was prepared by M.A. Dircks & Co., Inc. date: 1-27-94 Approved: 7-5-95
12. The traffic study was prepared by The Traffic Group dated: 6-14-95 Approved: 7-5-95
13. The stormwater management facility will be privately owned and maintained.
14. The existing utilities were located by aerial and field survey. The contractor must dig test pits, by hand, at all utility crossings and connection points to verify exact location.
15. The Soils analysis was prepared by Froehling & Robertson, Inc. dated: June 2, 1995.
16. Handicap parking details shall be in accordance with the "Maryland Building Code for the Handicapped", Section 5.01 - 7.05.
17. All driveways and parking to be owned and maintained by Howard County Board of Education.
18. Any damage to County or State owned right-of-way to be corrected at the contractor's expense.
19. All sidewalks shall be cross sloped at 1/4"/ft. away from the building unless otherwise indicated.
20. Trench bedding for storm drainage structures shall be in accordance with Howard County Standard G2.01.
21. Gutter of curbs shall be pitched to conform to adjacent drainage patterns.
22. Refer to architectural drawings for building dimensions.
23. For permanent Seeding & Landscaping Specifications see General Contract Specifications.
24. Refer to Electrical Site Plan for Exterior Lighting Locations and Specifications.



SITE ANALYSIS

1. GENERAL SITE DATA
 - a. Present Zoning: RR-MXD-3
 - b. Proposed Use of Site: Public Elementary School
 - c. Proposed Water & Sewer Systems: Public
 - d. Applicable DPZ File References:
 1. WP-05-122 to allow grading in stream buffer - Approved 7-10-95
 2. Council Resolution 06-1005 permitting parking lot in use setback *
2. AREA TABULATION

a. Total Property Area	99.8 Ac.
b. Net Area of Site	10.9 Ac.
c. Area of this plan Submission	26.7 Ac.
d. Limit of disturbed area	26.7 Ac.
e. Building coverage of Site:	1.6 Ac./0.02% of Site
f. Paved surfaces on Site:	4.3 Ac./0.04% of Site
3. PARKING DATA
 - a. Parking spaces required by zoning: N/A
 - b. Parking spaces provided per HCPSS requirements: 28
Including 4 Handicap Spaces and 8 Spaces in the Service Area.
4. BUILDING RESTRICTION AND USE SETBACKS

Front BRL = 75'
Side BRL = 30'
Rear BRL = 60'

Use Setbacks are 50' from Public R/W *
30' from other lot lines

* Proposed Parking lot setback of 20' is subject to Council Resolution 06-1005.

SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SITE DEVELOPMENT PLAN
5	ENTRANCE RD. PROFILE/PAVING SEC./SITE DISTANCE ANALYSIS
6	SITE DETAILS
7	SITE DETAILS
8	STORM DRAINAGE PROFILES
9	STORM DRAINAGE PROFILES/WATER & SEWER PROFILES
10	STORM DRAINAGE DETAILS
11	INTERIM STORMWATER MANAGEMENT DETAILS
12	DRAINAGE AREA MAP FOR EXISTING CONDITIONS
13	DRAINAGE AREA MAP FOR PROPOSED CONDITIONS
14	SEDIMENT AND EROSION CONTROL & DRAINAGE AREA MAP
15	SEDIMENT AND EROSION CONTROL & DRAINAGE AREA MAP
16	SEDIMENT AND EROSION CONTROL & DRAINAGE AREA MAP
17	SEDIMENT AND EROSION CONTROL DETAILS
18	SOILS, SLOPES AND FOREST STAND DELINEATION
19	LANDSCAPE PLAN
20	LANDSCAPE PLAN

ADDRESS CHART					
PARCEL No.	STREET ADDRESS				
115	11600 SCAGGSVILLE ROAD				
SUBDIVISION NAME:	SECT./AREA				
N/A	NA				
PARCEL No.	115				
PLAT No. of L.P.	BLOCK No.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
3218/G18	N/A	RR-MXD-3	41+4G	5th	6051.02
WATER CODE	SEWER CODE				
E20	7695000				

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 - WASH.

DESIGNED ZAL	COVER SHEET WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=200'
DRAWN ZAH		DRAWING 1 OF 20
CHECKED MHT		JOB NO. 02-228
DATE 8-10-95		FILE NO. 02-228X

FOR: HOWARD COUNTY BOARD OF EDUCATION (OWNER)
10910 ROUTE 108
ELLCOTT, MARYLAND 21042

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/1/95
Chief, Development Engineering Division Date

[Signature] 8/25/95
Chief, Division of Land Development and Research Date

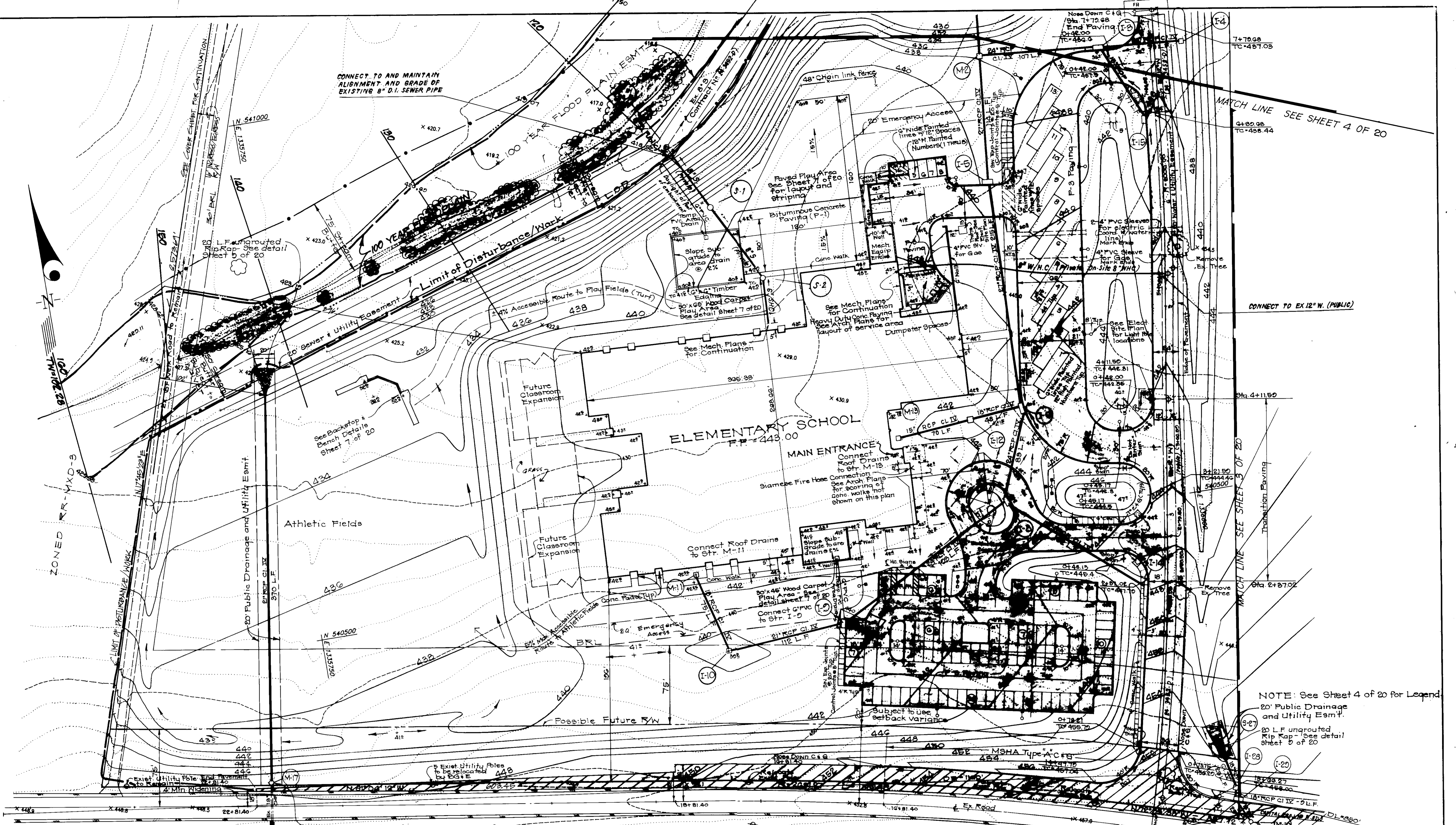
[Signature] 8/25/95
Director Date

744 TO ADJUSTED R. AND BRL AND ADDED IN INGRESS/EGRESS FROM REVISIONS

NOTE: REVISIONS MADE HEREAFTEE 7-26-95
PREPARED BY: JUDGE ENGINEERING CORP
10766 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 575-4393



STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
[Signature]
8/10/95



MATCH LINE SEE SHEET 4 OF 20

CONNECT TO EX 12" W. (PUBLIC)

MATCH LINE SEE SHEET 3 OF 20

NOTE: See Sheet 4 of 20 for Legend
 20' Public Drainage and Utility Esmt.
 20' L.F. ungrouted Rip Rap - See detail sheet 5 of 20

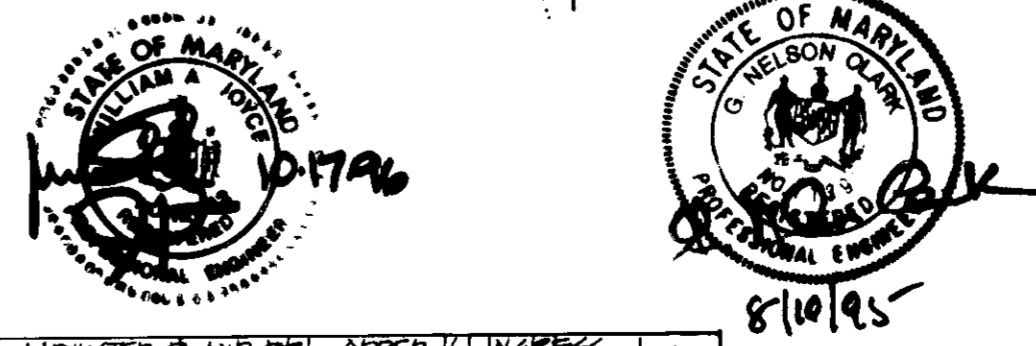
NOTE: REVISIONS MADE HEREAFTER 7-21-76 APE PREPARED BY: JOYCE ENGINEERING CORPORATION 10746 BALTIMORE AVE BELTSVILLE MD 20705 PHONE (301) 815-4533

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research

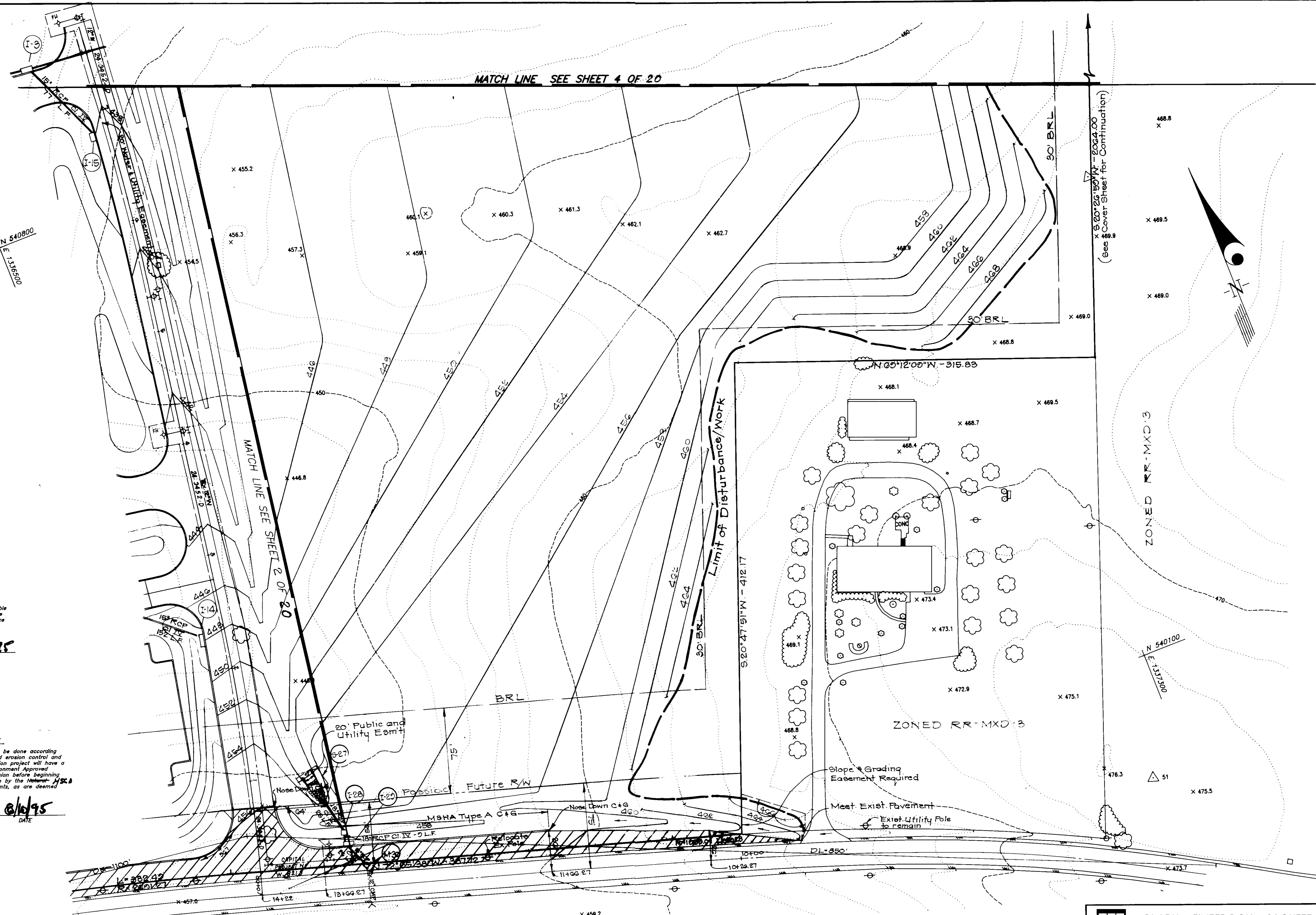
Reviewed for HOWARD S.C.D. and meets Technical Requirements
 Signature: [Signature]
 Date: 8/25/95
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURE-RESOURCES CONSERVATION SERVICE, HOWARD COUNTY, M.D.

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Nature-Resources Conservation Service of U.S.A.
 Signature: G. Nelson Clark
 Date: 8/10/95
 G. NELSON CLARK

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have Certificates of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Natural Resources Conservation Service or that authorized agents, as are deemed necessary.
 Signature: [Signature]
 Date: [Date]



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DESIGNED DRAWN CHECKED DATE 8-10-95	SITE DEVELOPMENT PLAN WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: HOWARD COUNTY BOARD OF EDUCATION 10810 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	DATE 8-10-95



MATCH LINE SEE SHEET 4 OF 20

MATCH LINE SEE SHEET 2 OF 20

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the "Natural Resources Conservation Service" 118.5.D

G. Nelson Clark 8/10/95
G. NELSON CLARK DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Natural Resources Conservation Service or their authorized agents, as are deemed necessary."

William J. ... 8/10/95
NAME DATE

Reviewed for HOWARD, S.C.D. and meets all requirements for Sediment and Erosion Control by the Natural Resources Conservation Service.
Kimberly ...
Signature Date

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURAL RESOURCES CONSERVATION SERVICE.
Jeff ... 8/10/95
Approved



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DESIGNED	SITE DEVELOPMENT PLAN	SCALE 1" = 40'
DRAWN Z.H.	WESTERN ELEMENTARY SCHOOL NO. 2	DRAWING 3 of 20
CHECKED W.H.T.	TAX MAP 41 AND 45, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 02-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10810 ROUTE 108 ELLCOTT CITY, MARYLAND 21042	FILE NO. 02-228X

	Allowable Release Rate @ X-Section (cfs)	Computed Inflow to Facility	Discharge for Prop. Configuration at X-Section (cfs)	Elev. in facility @ discharge (ft)	Storage Vol. Provided Elev. (ac-ft)	Discharge from actual facility (cfs)
2 YR	29.86	24.91	25.76	418.73	1.240	2.08
10 YR	115.80	59.76	99.64	420.13	1.916	20.89
100 YR	-	103.64	306.64	420.79	2.296	89.99

LEGEND

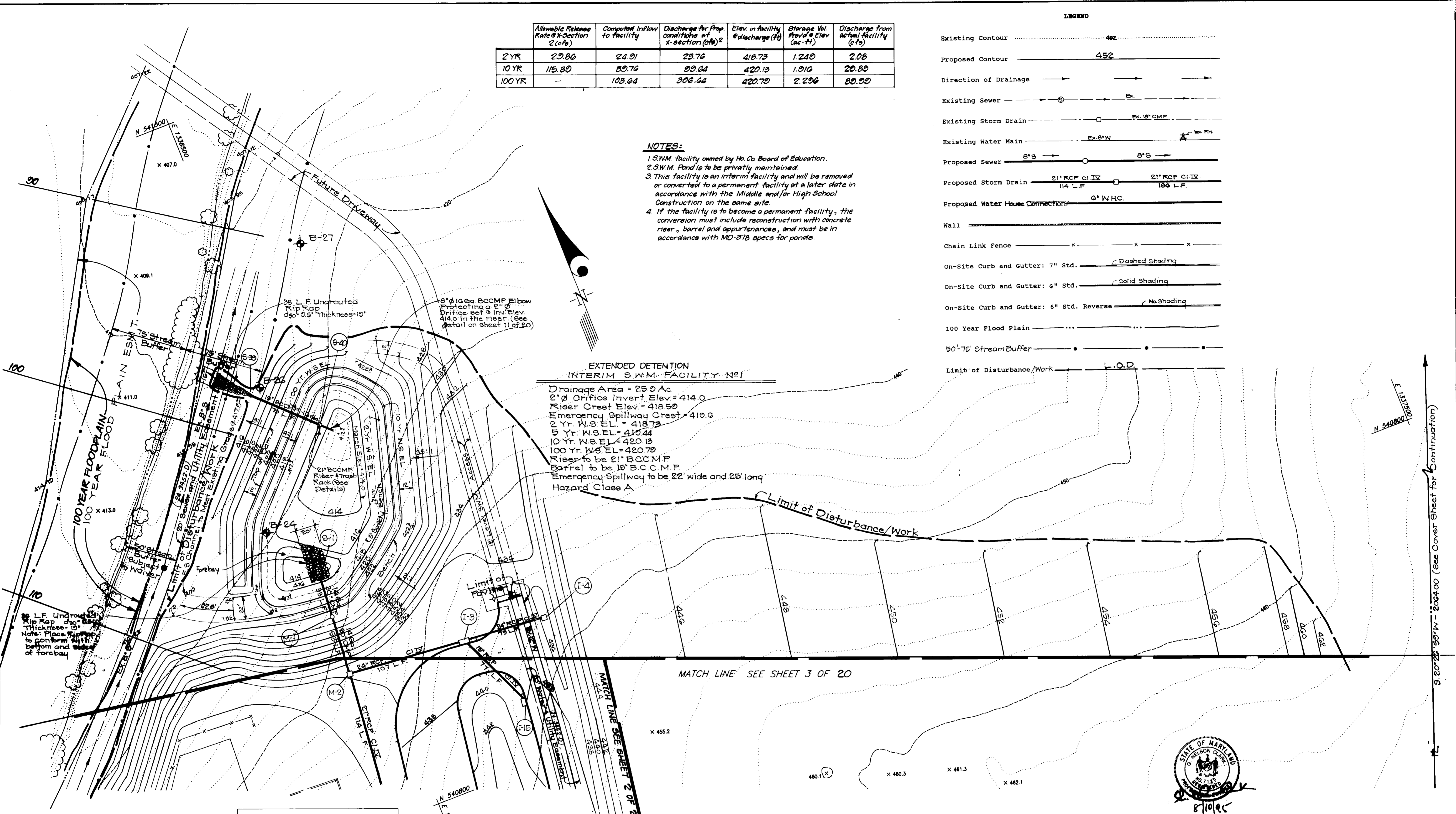
- Existing Contour 462
- Proposed Contour 452
- Direction of Drainage → → →
- Existing Sewer Ex. 8" S
- Existing Storm Drain Ex. 18" C.M.P.
- Existing Water Main Ex. 8" W
- Proposed Sewer 8" S
- Proposed Storm Drain 21" RCP C.I.V. 114 L.F. / 21" RCP C.I.V. 186 L.F.
- Proposed Water House Connection 6" W.H.C.
- Wall ————
- Chain Link Fence x x x
- On-Site Curb and Gutter: 7" Std. Dashed Shading
- On-Site Curb and Gutter: 6" Std. Solid Shading
- On-Site Curb and Gutter: 6" Std. Reverse No Shading
- 100 Year Flood Plain - - - - -
- 50'-75' Stream Buffer • • • • •
- Limit of Disturbance/Work L.O.D.

NOTES:

1. S.W.M. facility owned by Ho. Co. Board of Education.
2. S.W.M. Pond is to be privately maintained.
3. This facility is an interim facility and will be removed or converted to a permanent facility at a later date in accordance with the Middle and/or High School Construction on the same site.
4. If the facility is to become a permanent facility, the conversion must include reconstruction with concrete riser, barrel and appurtenances, and must be in accordance with MD-37B specs for ponds.

EXTENDED DETENTION INTERIM S.W.M. FACILITY - N#1

Drainage Area = 25.0 Ac
 2' Ø Orifice Invert Elev. = 414.0
 Riser Crest Elev. = 418.50
 Emergency Spillway Crest = 419.0
 2 Yr. W.S. EL. = 418.73
 5 Yr. W.S. EL. = 419.44
 10 Yr. W.S. EL. = 420.13
 100 Yr. W.S. EL. = 420.79
 Riser to be 21" B.C.C.M.P.
 Barrel to be 15" B.C.C.M.P.
 Emergency Spillway to be 22' wide and 25' long
 Hazard Class A



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division 8/21/95
 Chief, Division of Land Development and Research 8/25/95
 Member 8/25/95

These plans have been reviewed for the Howard Soil Conservation District and meet technical requirements for erosion and sediment control.
 Patricia E. Lee Wilks
 Natural Resources Conservation Service

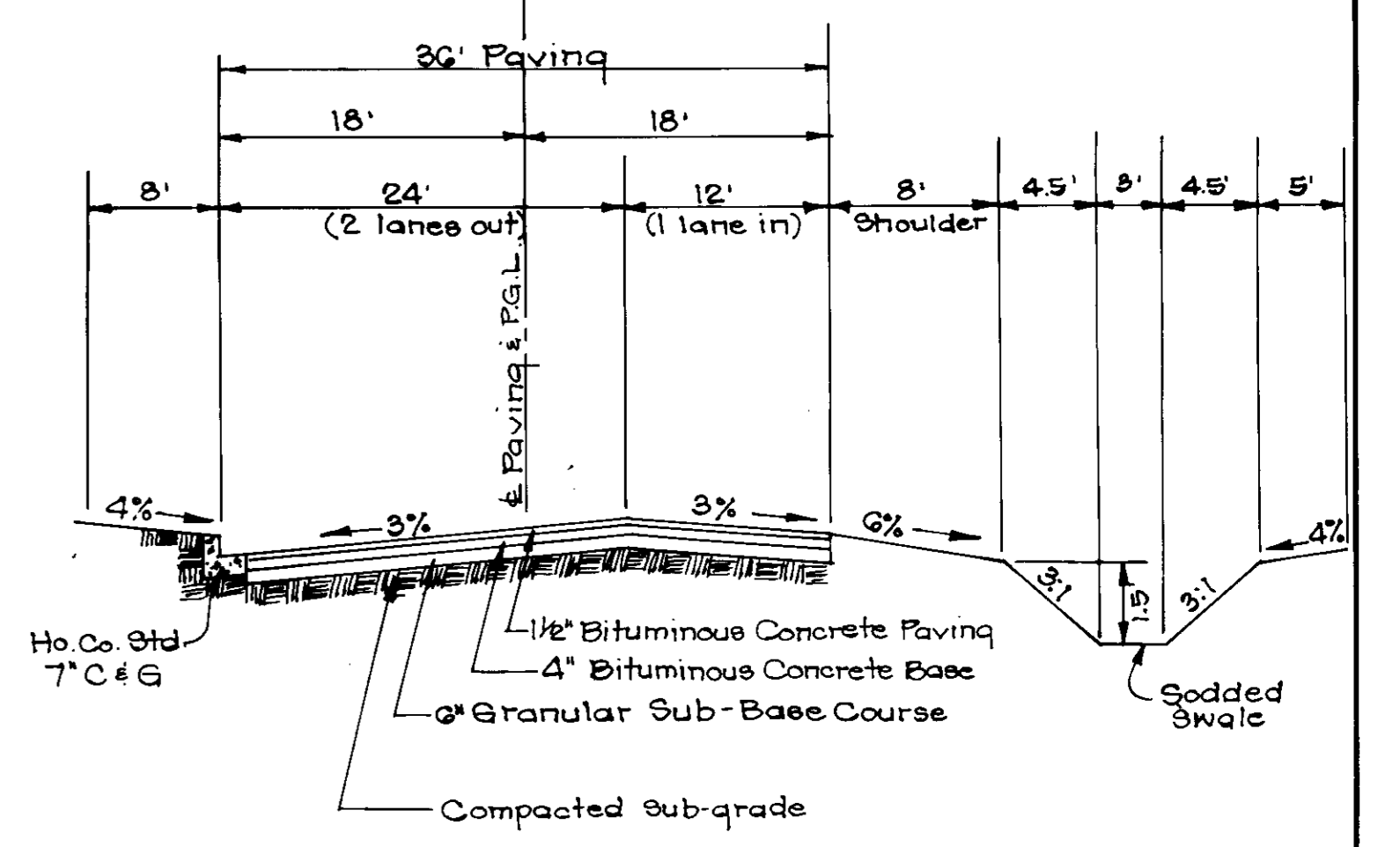
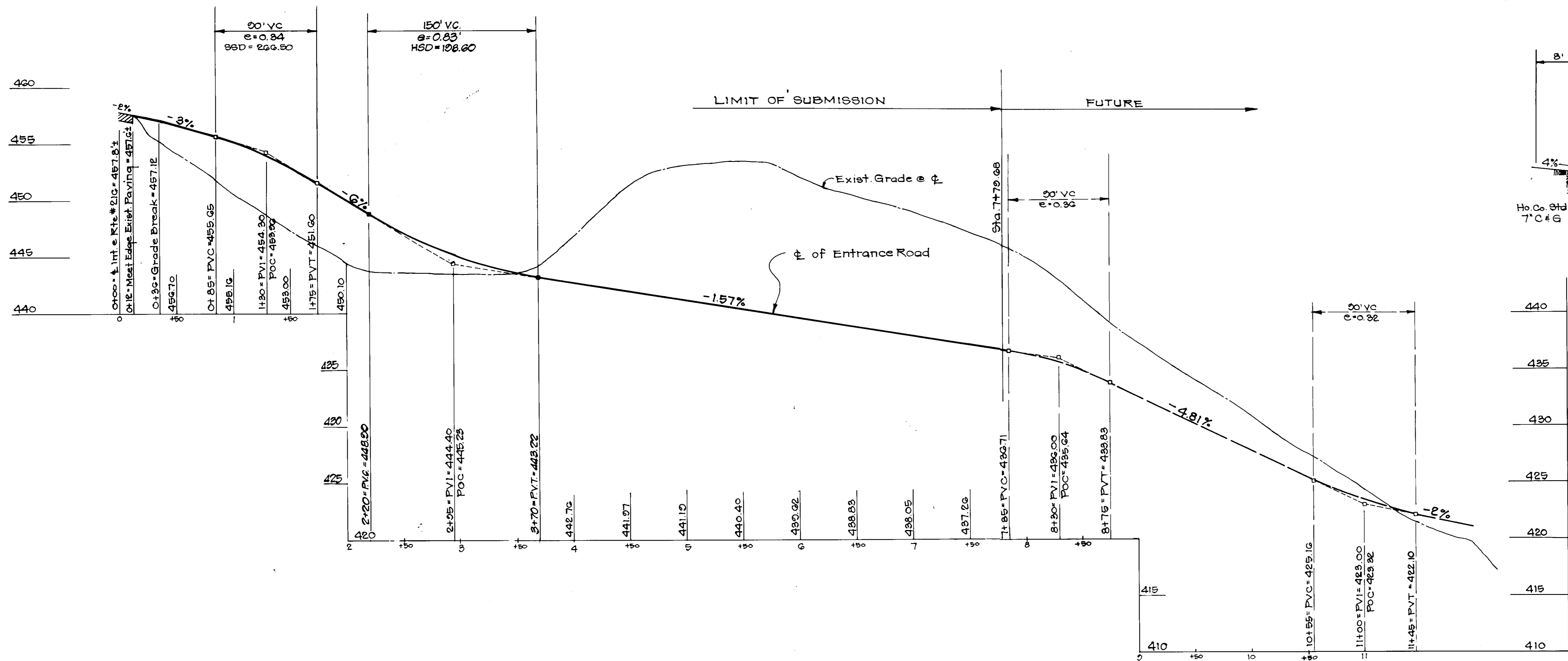
These plans for erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Approved: [Signature]
 Howard S.D.

By The Engineer:
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.
 Signature of Engineer: [Signature] Date: 8/10/95

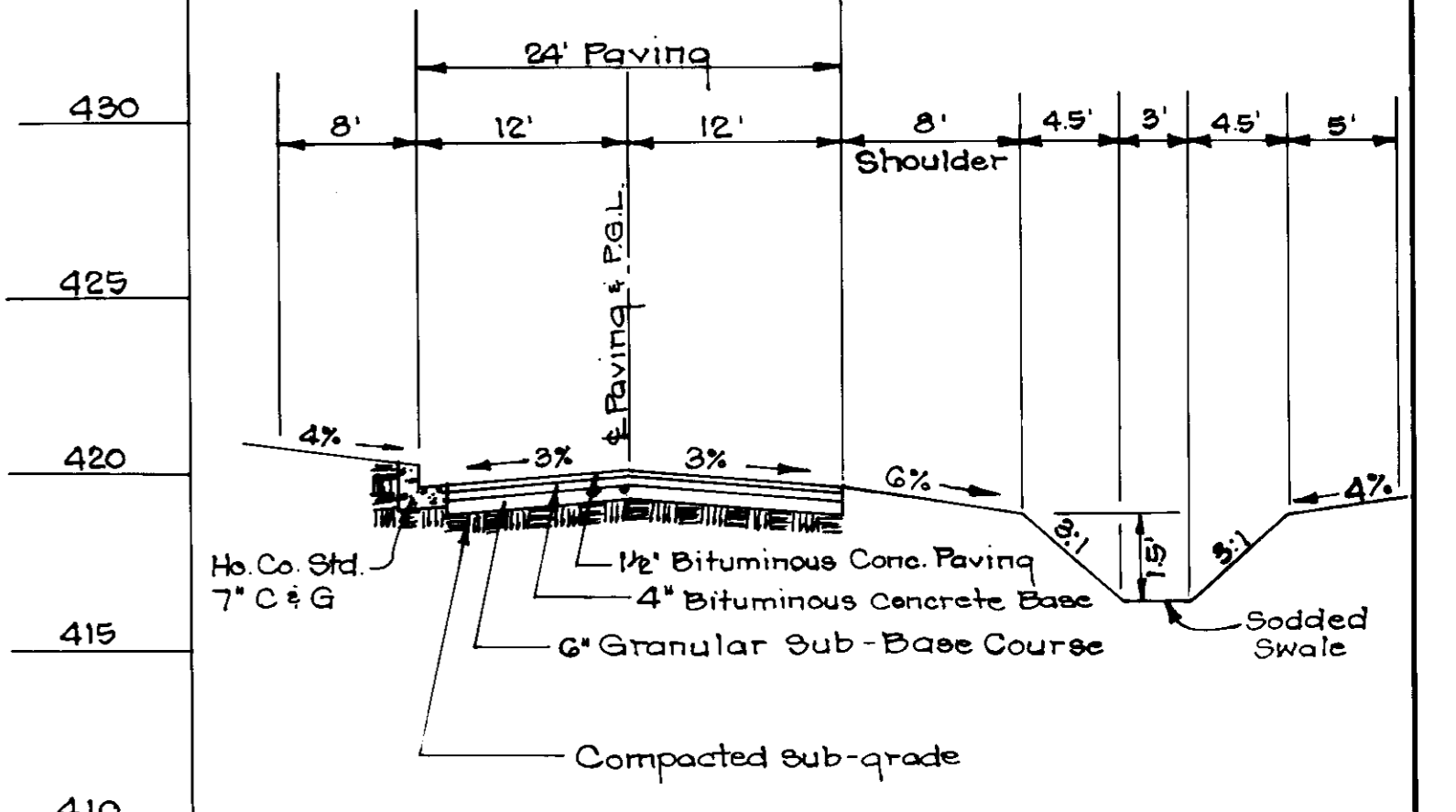
By The Developer:
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
 Signature of Developer: [Signature] Date: 8/10/95



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DESIGNED DRAWN CHECKED DATE	SITE DEVELOPMENT PLAN WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: HOWARD COUNTY BOARD OF EDUCATION 10810 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	DRAWING 4 OF 20 JOB NO. 92-228 FILE NO. 92-228X



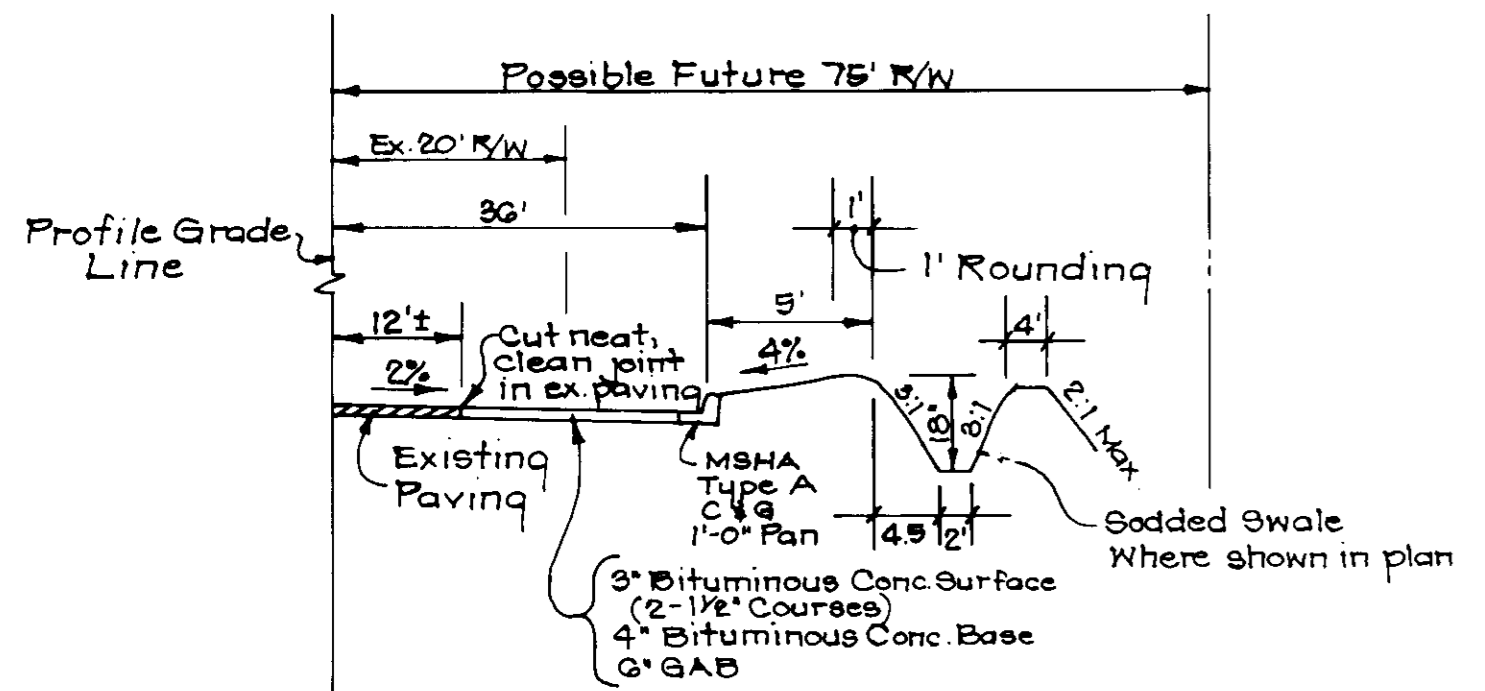
TYPICAL SECTION
STA 0+00 TO STA. 4+11.50*
 NO SCALE
 * Transition Paving from Sta. 2+37.02 to Sta. 4+11.50



TYPICAL SECTION
STA. 4+11.50 TO STA. 7+79.68
 NO SCALE

ENTRANCE ROAD PROFILE

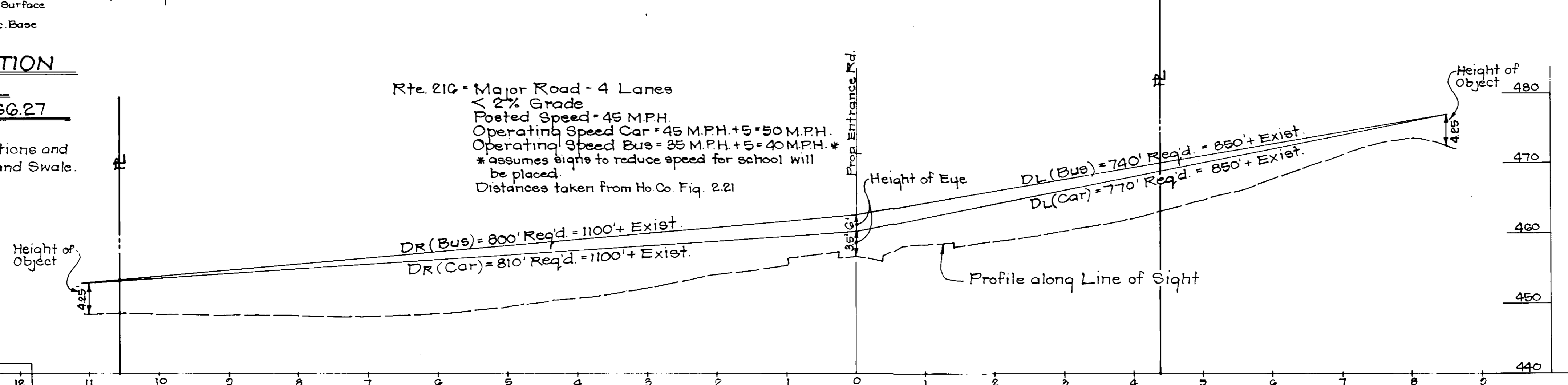
SCALE: HOR. 1" = 50'
 VERT. 1" = 5'
 Design Speed = 25 MPH
 Zoning: R-20



TYPICAL HALF SECTION
MD. ROUTE # 216
STA. 11+00.27 to STA. 13+00.27
 NO SCALE

Note: See Plan View for transitions and Limits of Curb and Gutter and Swale.

Rte. 216 = Major Road - 4 Lanes
 < 2% Grade
 Posted Speed = 45 M.P.H.
 Operating Speed Car = 45 M.P.H. + 5 = 50 M.P.H.
 Operating Speed Bus = 35 M.P.H. + 5 = 40 M.P.H. *
 * assumes rights to reduce speed for school will be placed.
 Distances taken from Ho. Co. Fig. 2.21



SITE DISTANCE ANALYSIS
MD. ROUTE #216 AND PROPOSED ENTRANCE ROAD

SCALE: HOR. 1" = 100'
 VERT. 1" = 10'

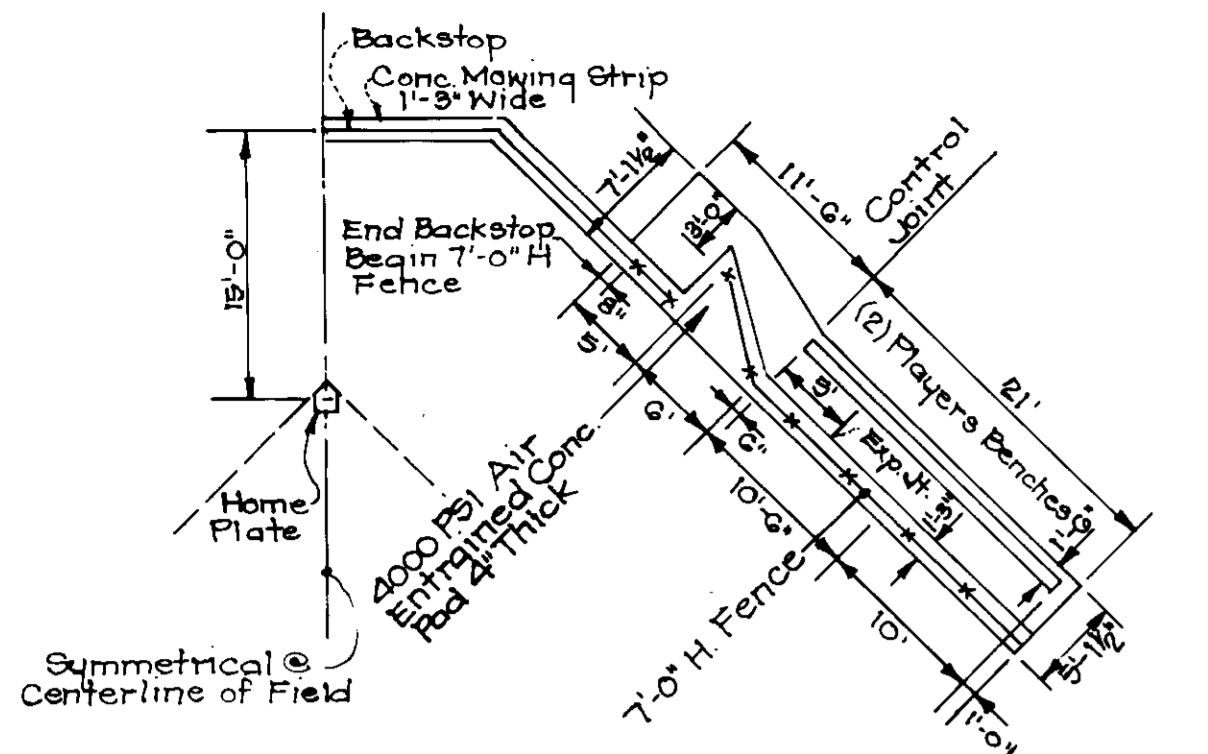
ENTRANCE DRIVEWAY SECTIONS



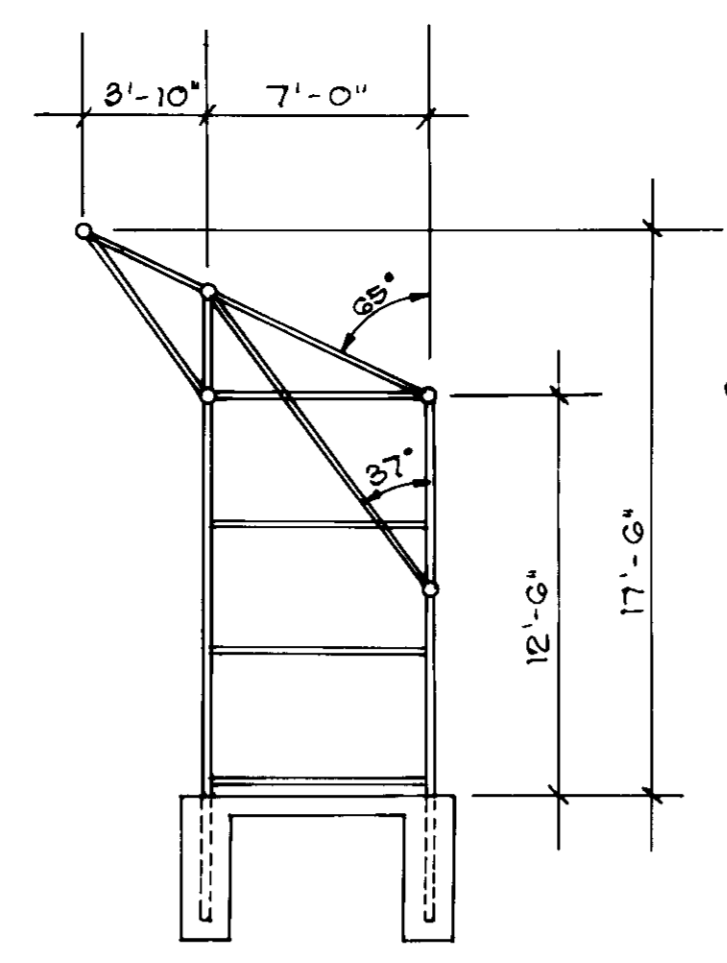
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date: 8/25/95
 Chief, Division of Land Development and Research
 Date: 8/25/95
 Director

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DESIGNED J.L.S.	ENTRANCE ROAD PROFILE, PAVING SECTIONS AND SIGHT DISTANCE ANALYSIS	SCALE AS SHOWN
DRAWN J.L.S.	WESTERN ELEMENTARY SCHOOL #2	DRAWING 5 of 20
CHECKED J.L.S.	TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	FILE NO. 92-228 X

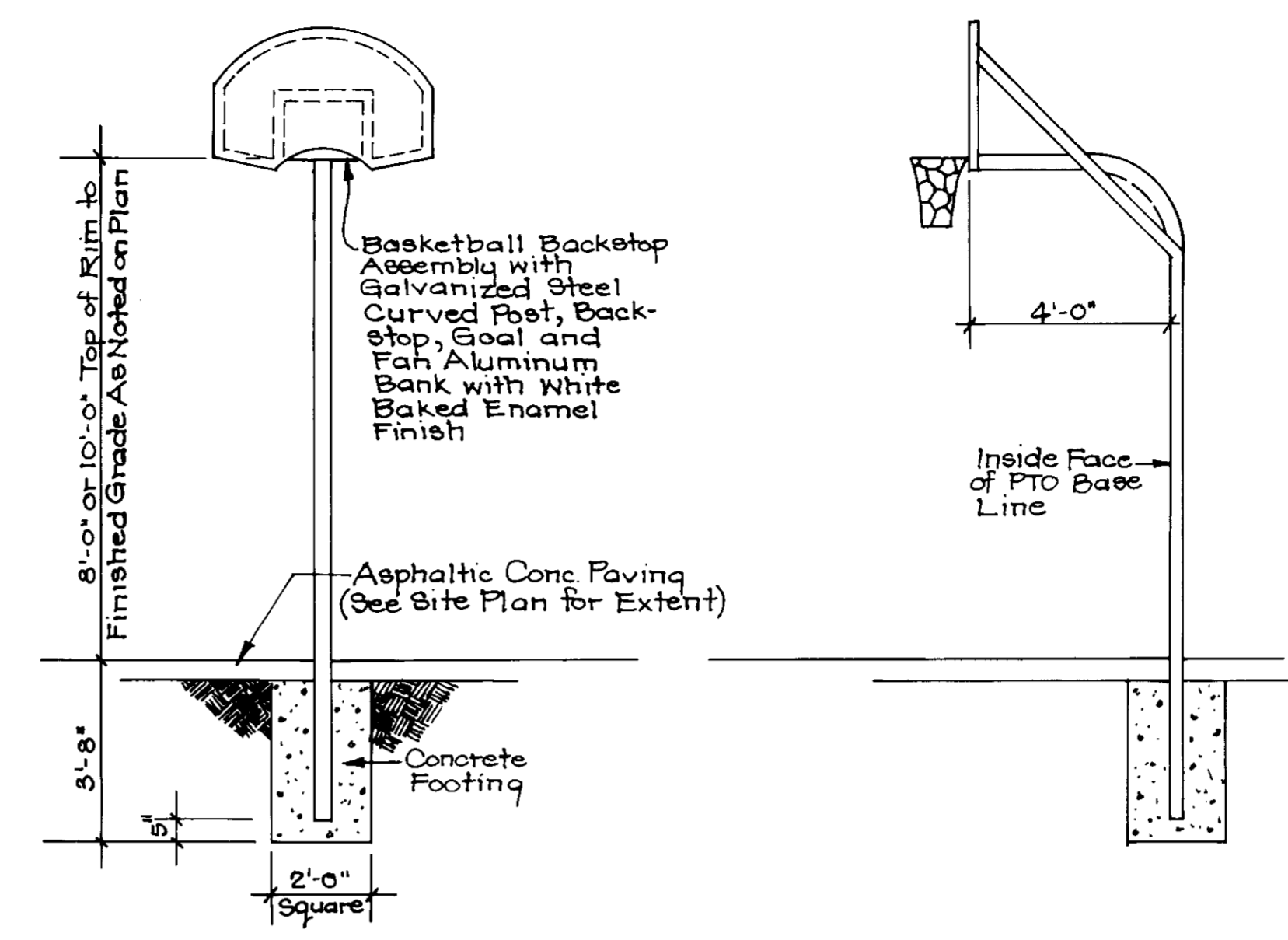
SDP 95-118



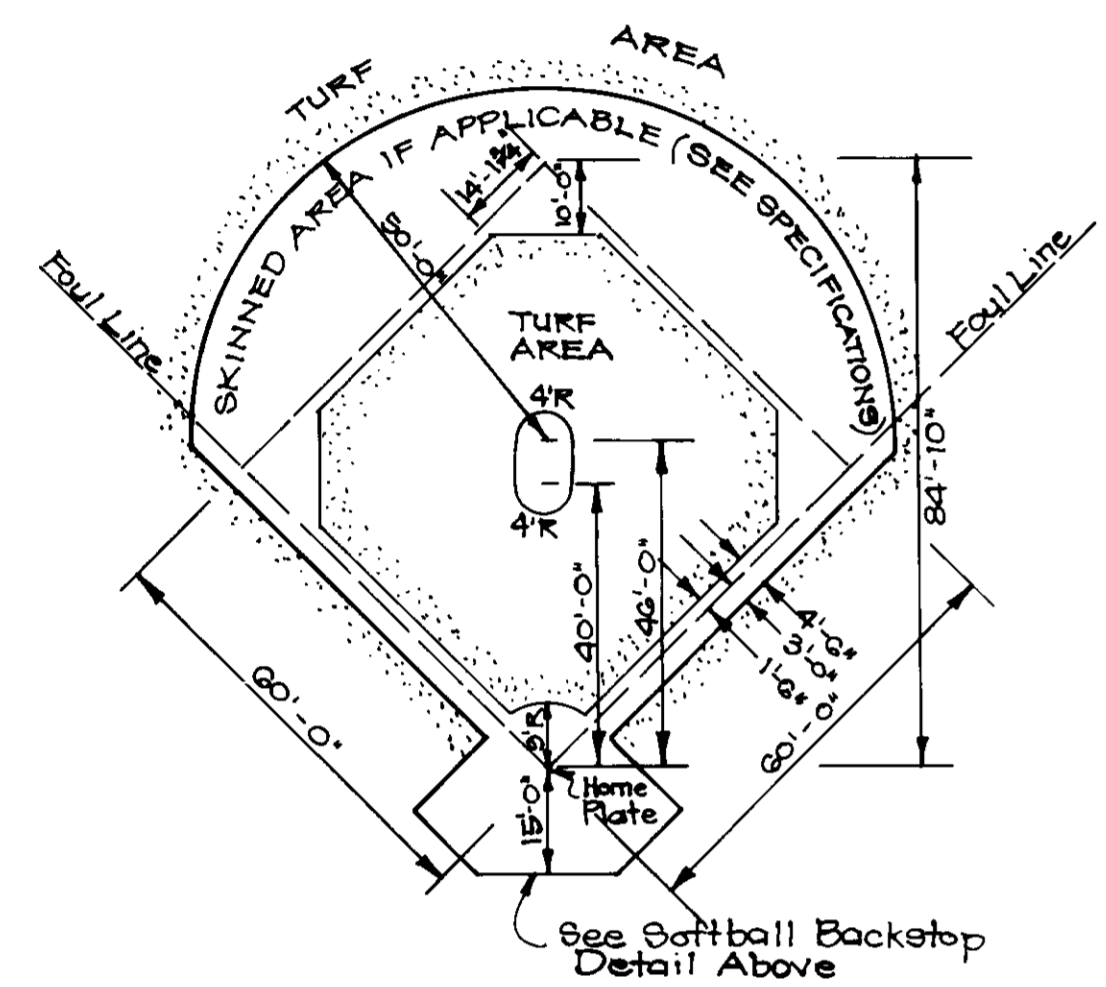
PLAYER BENCH/TEAM AREA DETAIL



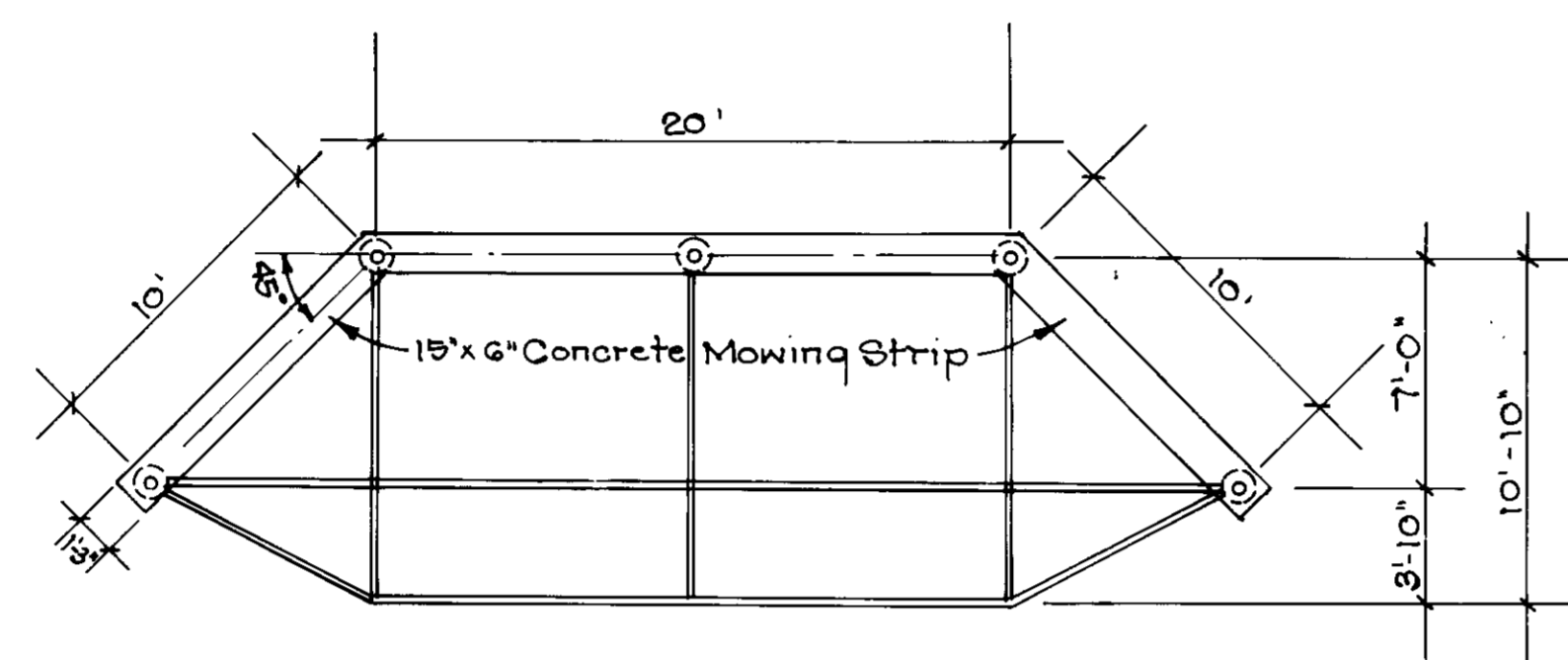
SECTION



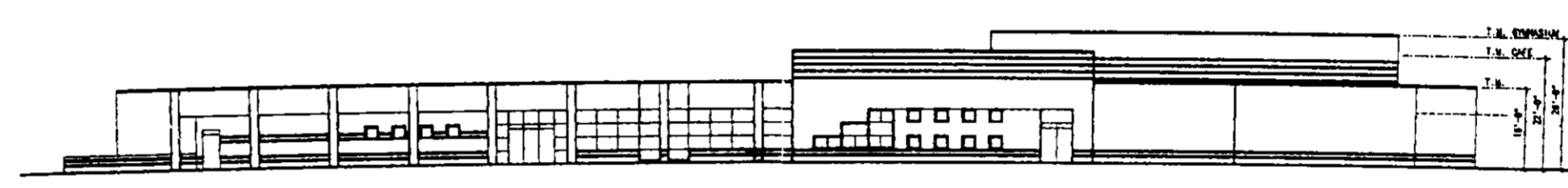
FAN SHAPED BASKETBALL BACKBOARD
NO SCALE



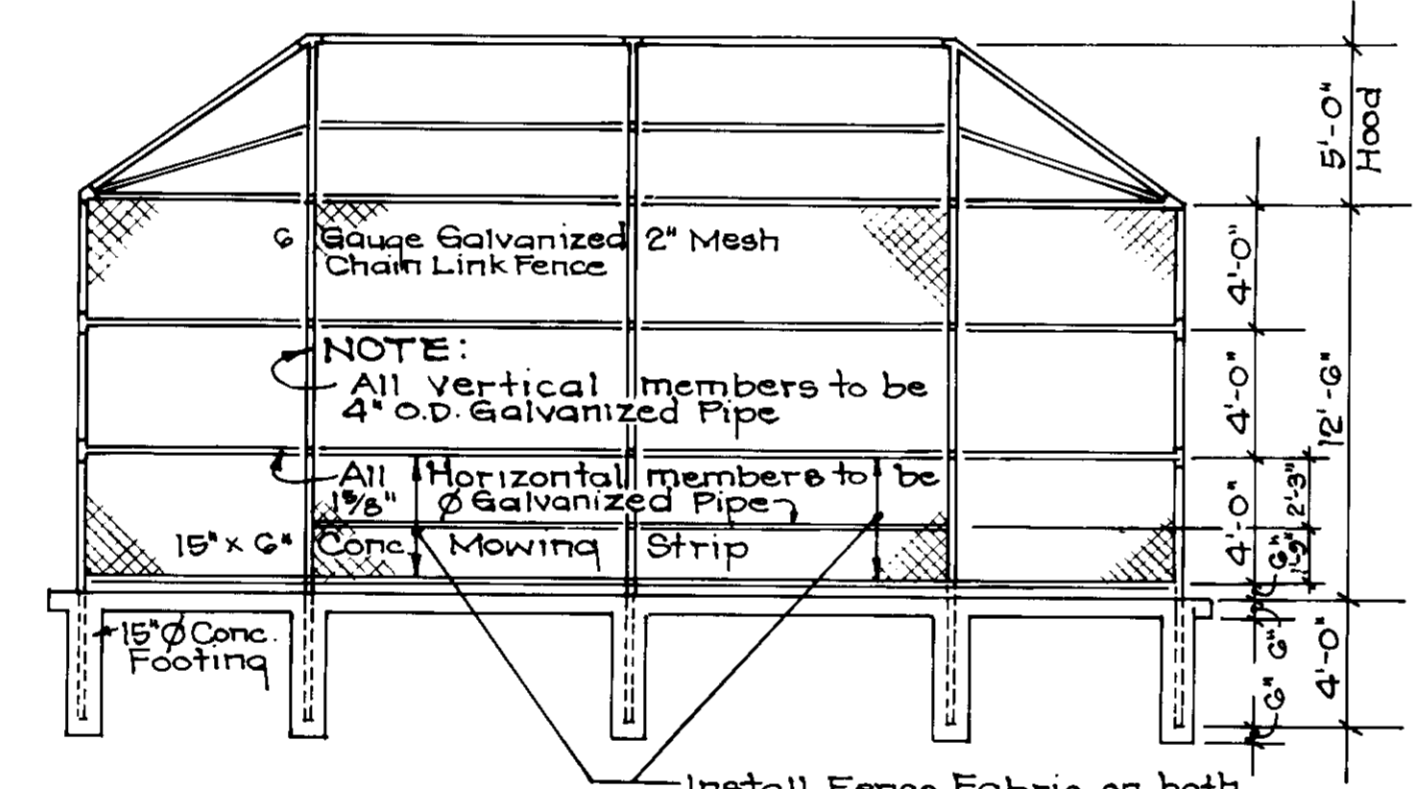
SOFTBALL DIAMOND LAYOUT
NO SCALE



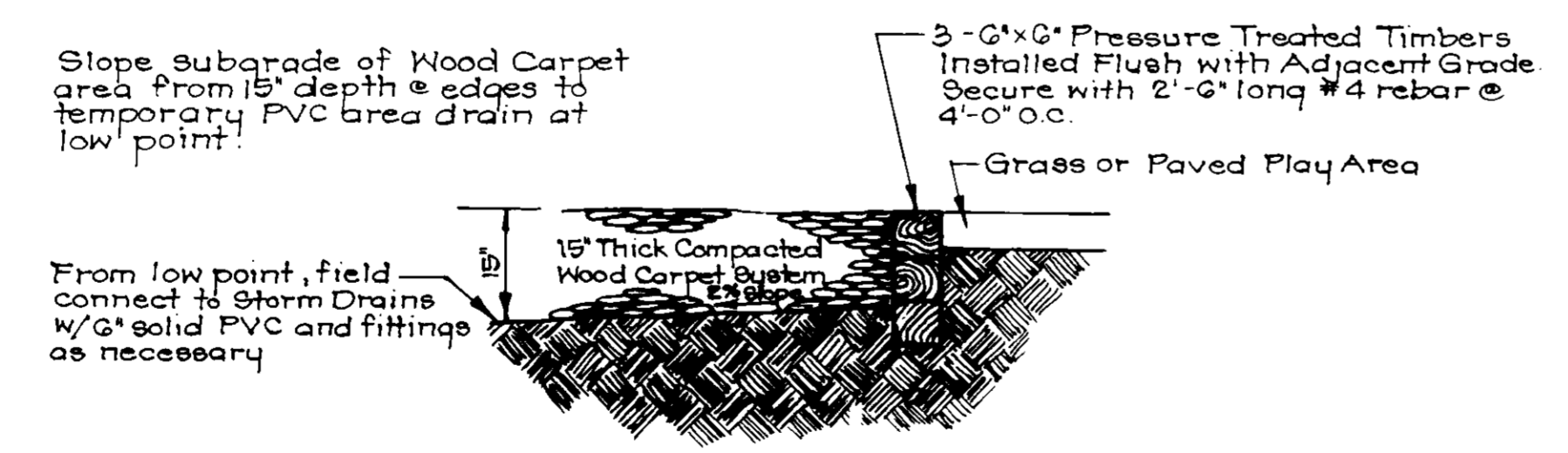
PLAN VIEW



EAST ELEVATION (FACING BUS LOOP)
NO SCALE



ELEVATION
SOFTBALL BACKSTOP DETAIL
NO SCALE



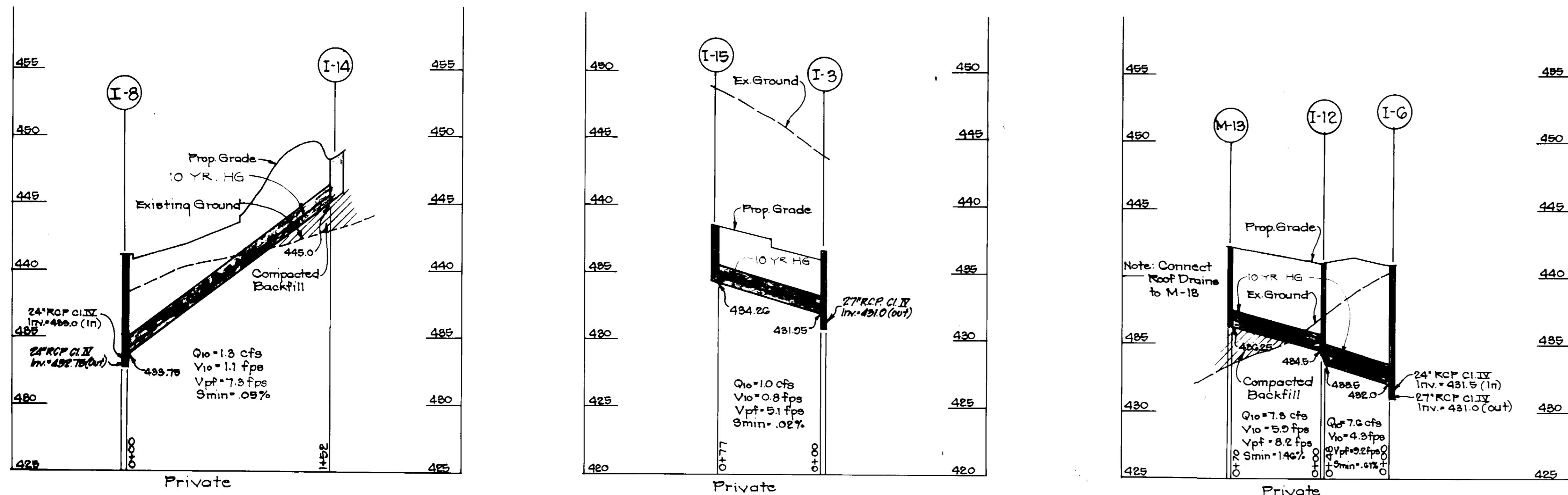
PLAY AREA SURFACE AND DRAINAGE DETAILS
NO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division: *[Signature]* 8/25/95
 Chief, Division Land Development and Research: *[Signature]* 8/25/95
 Director: *[Signature]* 8/25/95



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DESIGNED	SITE DETAILS	SCALE
DRAWN	WESTERN ELEMENTARY SCHOOL No. 2	DRAWING 7 of 20
CHECKED	TAX MAP 41 AND 46, PARCEL 115 FIFTH (6TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 92-228
DATE	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21042	FILE NO. 92-228X

SDP 95-118

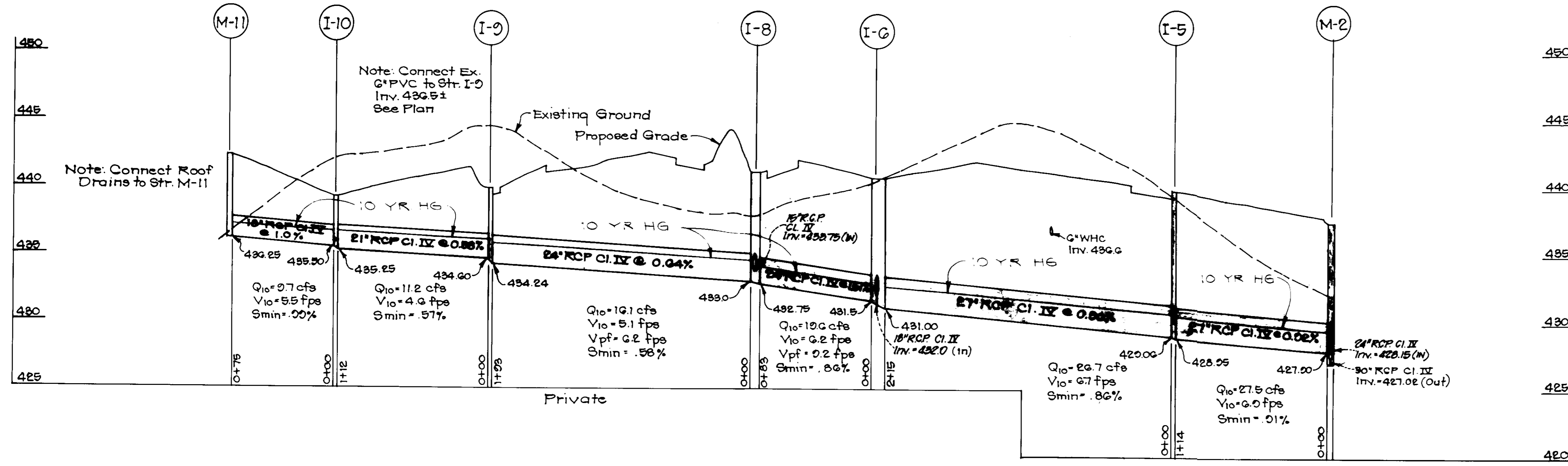


NR	TYPE	INVERT		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	UPPER	LOWER		
B-7	Metal End Section	414.0	415.92	418.5		Ho. Co. Std. SD 5.01 30" dia	See Plan
M-2	Standard Precast Manhole	447.02	447.02	457.5		Ho. Co. Std. SD 5.12 4' dia	See Plan
I-3	A-10 Inlet	430.50	430.50	434.0		Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-4	K-Inlet	432.5	432.5	436.12		Ho. Co. Std. SD 4.12 3' dia	See Plan
I-15	A-5 Inlet	424.25	424.25	428.50	428.50	Ho. Co. Std. SD 4.01 W-2' dia	See Plan
I-5	A-10 Inlet	420.02	420.02	424.02	424.02	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-6	A-10 Inlet	421.0	421.0	425.0	425.0	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-8	A-10 Inlet	422.75	422.75	426.75	426.75	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-9	A-10 Inlet	424.0	424.0	428.0	428.0	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-10	Single 8" Inlet w/ Particular Grade	425.5	425.5	429.5	429.5	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
M-11	Shallow Precast Manhole #	426.25	426.25	430.25	430.25	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-12	Single 8" Inlet w/ Particular Grade	427.0	427.0	431.0	431.0	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
M-18	Shallow Precast Manhole #	428.25	428.25	432.25	432.25	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
I-14	A-10 Inlet	429.0	429.0	433.0	433.0	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
M-1	Standard Precast MH	414.25	414.25	422.0	422.0	Ho. Co. Std. SD 4.02 W-2' dia	See Plan
B-20	Metal End Section	415.0	415.0	419.0		Ho. Co. Std. SD 5.01 30" dia	See Plan

Δ Inverts to be fully developed
 * Provide opening for 1 1/2" connection @ Elev. 424.5 for Roof Drains on School side of Structure

SIZE	TYPE	LENGTH
18"	RCP CI IV	207 L.F.
16"	RCP CI IV	125 L.F.
21"	RCP CI IV	112 L.F.
24"	RCP CI IV	492 L.F.
27"	RCP CI IV	320 L.F.
* 30"	CMP	14 ga. 86 L.F.
* 15"	BCCMP	16 ga. 70 L.F.

* 2 3/8" x 1/2" Corrugations



NR	TYPE	INVERT		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	UPPER	LOWER		
B-16	Concrete End Section	426.8	426.84	432.04		SHA Std. MD-268.01 21" dia	See Plan
M-17	48" Dia. Precast Manhole	444.82	444.82	447.70		SHA Std. MD-264.01 48" dia	See Plan
B-27	Concrete End Section	420.50	420.50	426.00		SHA Std. MD-268.01 18" dia	See Plan
I-25	Special Type K Inlet	420.01	420.01	424.00		SHA Std. MD-278.00 W-2'	See Plan
I-20	Square Cap-10 Inlet	422.01	422.01	426.14		SHA Std. MD-274.51 W-4'	See Plan
M-20	Standard Shallow Manhole	446.84	446.84	447.70		SHA Std. MD-264.01 48" dia	See Plan

Δ Inverts to be fully developed
 □ provide granite block bottom

Structure	Pipe Dia.	L	W	Dg	Thickness	MONA Class
B-16	21"	20'	20"	3"	10"	I
B-27	18"	30'	20"	3"	10"	I
B-20	18"	30'	20"	3"	10"	I
B-1	30"	35'	20"	3"	10"	I

SIZE	TYPE	LENGTH
18"	RCP CI IV	50 L.F.
21"	RCP CI IV	270 L.F.

STORM DRAIN PROFILES

SCALE: HOR. 1"=50'
 VERT. 1"=5'

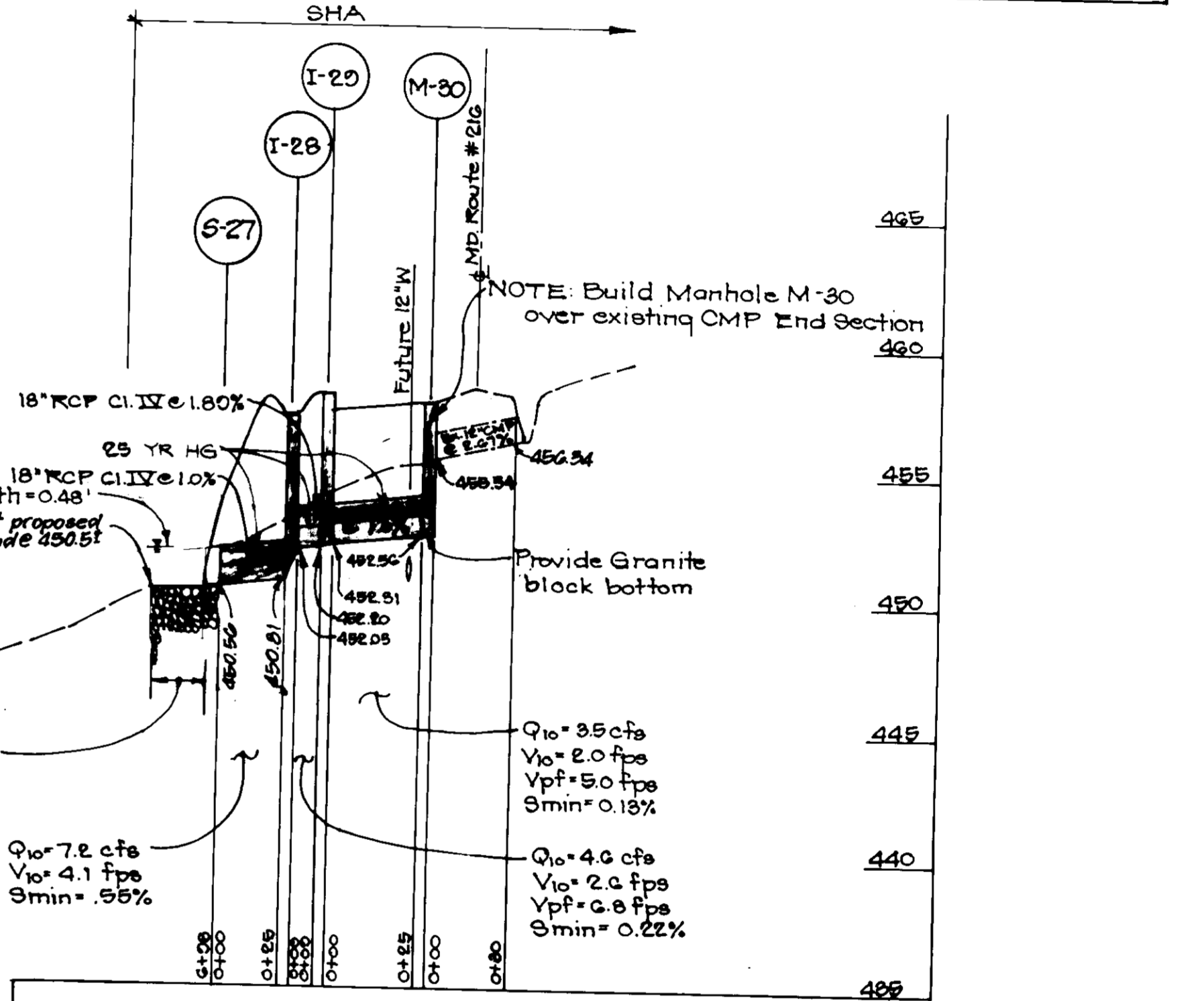
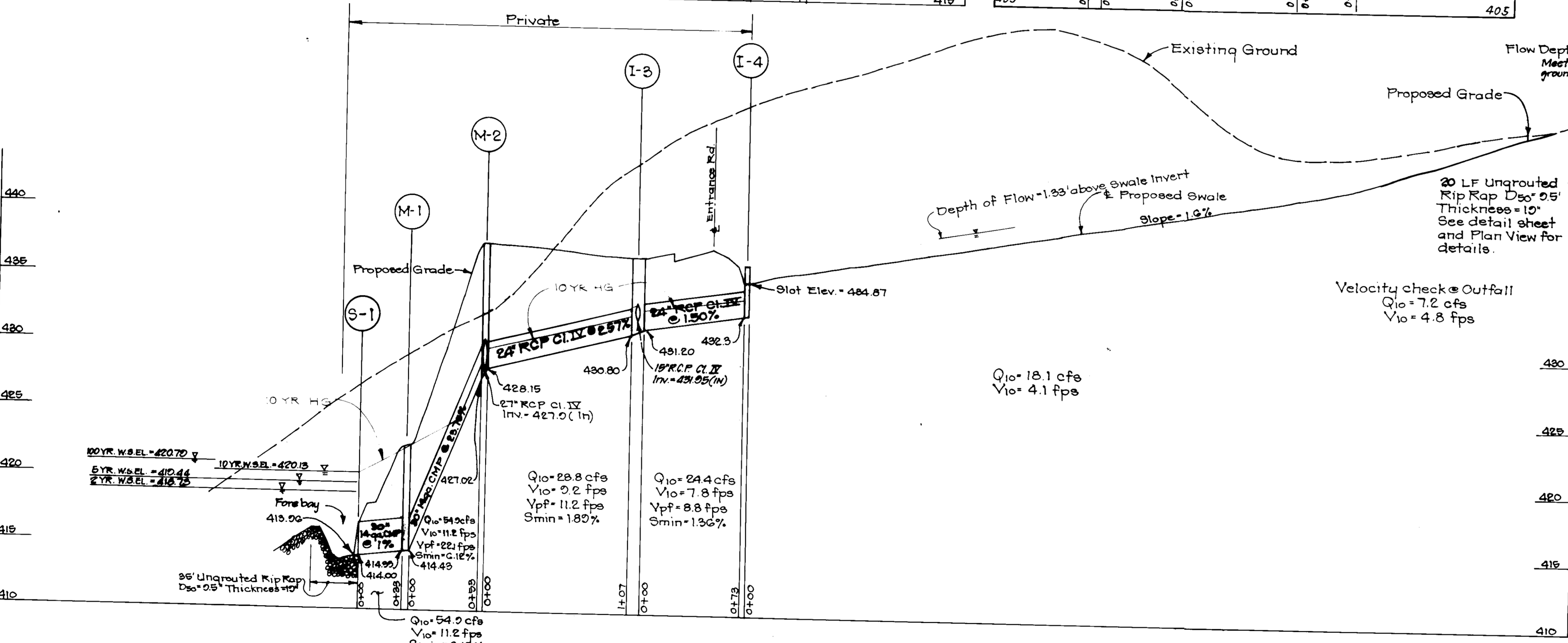
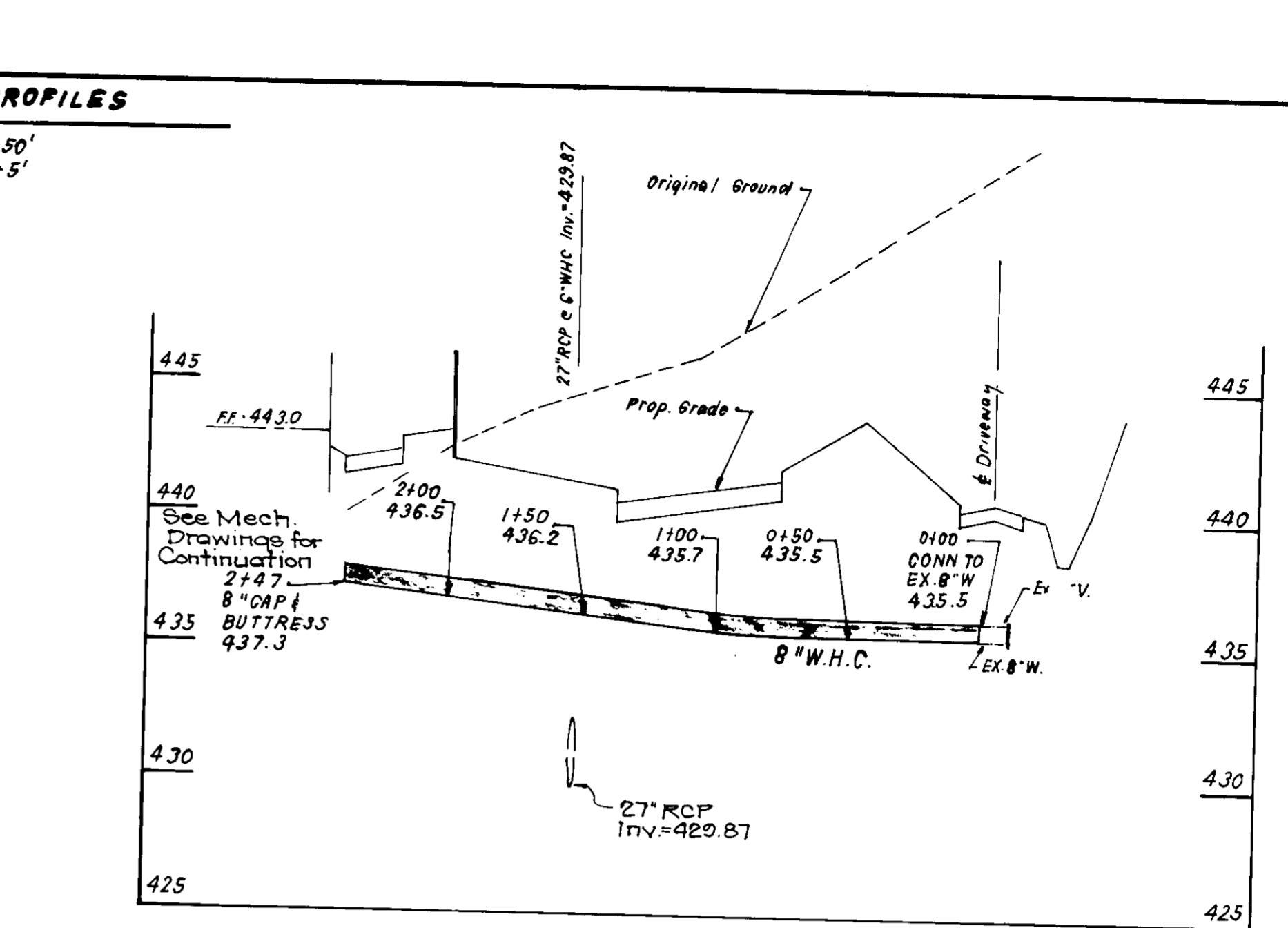
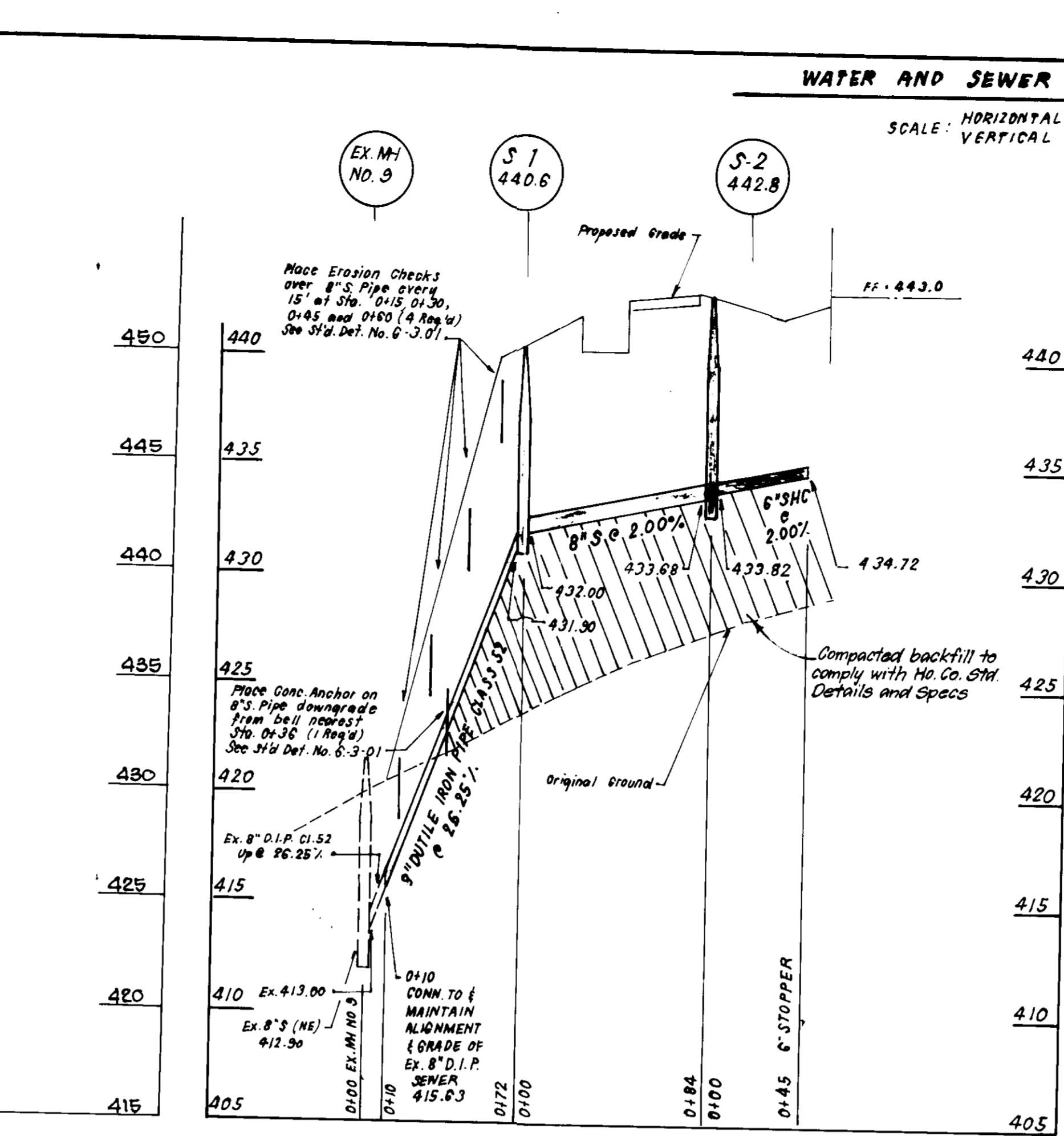
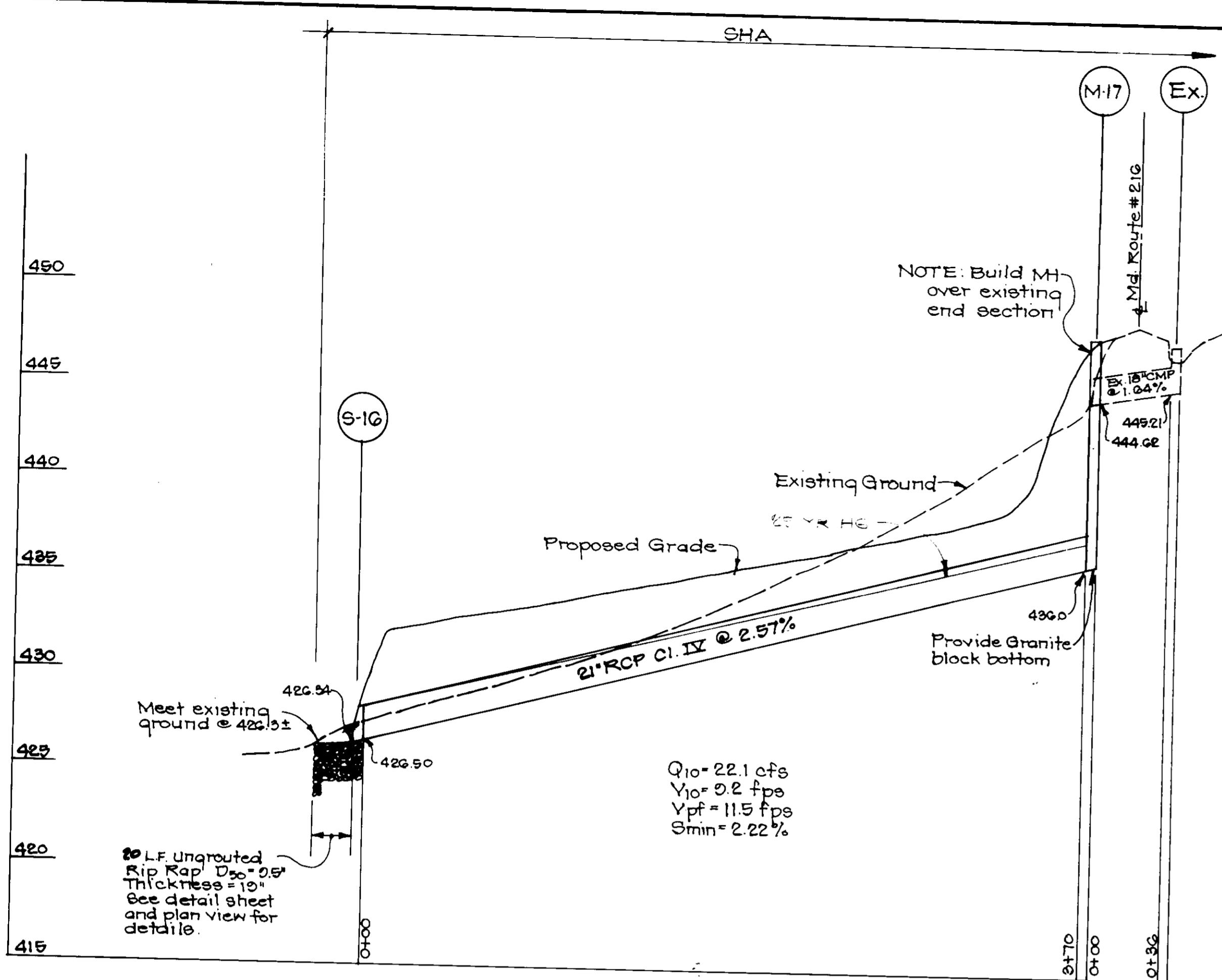
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] Date: 8/25/95
 [Signature] Date: 8/25/95



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 ENGINEERS • PLANNERS • SURVEYORS
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DESIGNED J.L.B.	STORM DRAINAGE PROFILES WESTERN ELEMENTARY SCHOOL #2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	SCALE As Shown
DRAWN J.L.B.		DRAWING B of 20
CHECKED J.L.S.		JOB NO. 02-228
DATE 8-10-95		FILE NO. 02-228 X

SDP 95-118



- WATER AND SEWER NOTES**
- All construction methods and materials for onsite water and sewer systems shall follow the current editions of the Howard County Plumbing Code, supplemented by the Howard County standard Details and Specifications where necessary.
 - 6-inch sewer house connection shall be built to within 5 feet of the building at a slope of 2.00%.
 - 6 and 8-inch P.V.C. Pipe shall meet the requirements of A.S.T.M. D.3034, wall thickness classification SDR-35.
 - Where sewer connection is to be extended from public connection, the pipe material shall be the same as the public sewer, D.I.P. Class 52.
 - Water meter shall be located inside the building.
 - Area where water meter connection is to be built shall be at final grade and the water house connection shall be laid with a minimum of 3.5' of cover. Water house connection shall be 8" diameter, ductile iron, Class 52.
 - Water house connection shall be built to within 5 feet of the building.

STORM DRAIN PROFILES

SCALE: HOR. 1"=30'
VERT. 1"=5'

Reviewed for HOWARD S.C.D.
and meets Technical Requirements
Signature: *[Signature]* Date: 8/14/95
U.S. Natural Resources Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE
I/We certify that all development and construction will be done according to the plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
Signature: *[Signature]* Date: 8/14/95

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature: *[Signature]* Date: 8/10/95
G. NELSON CLARK

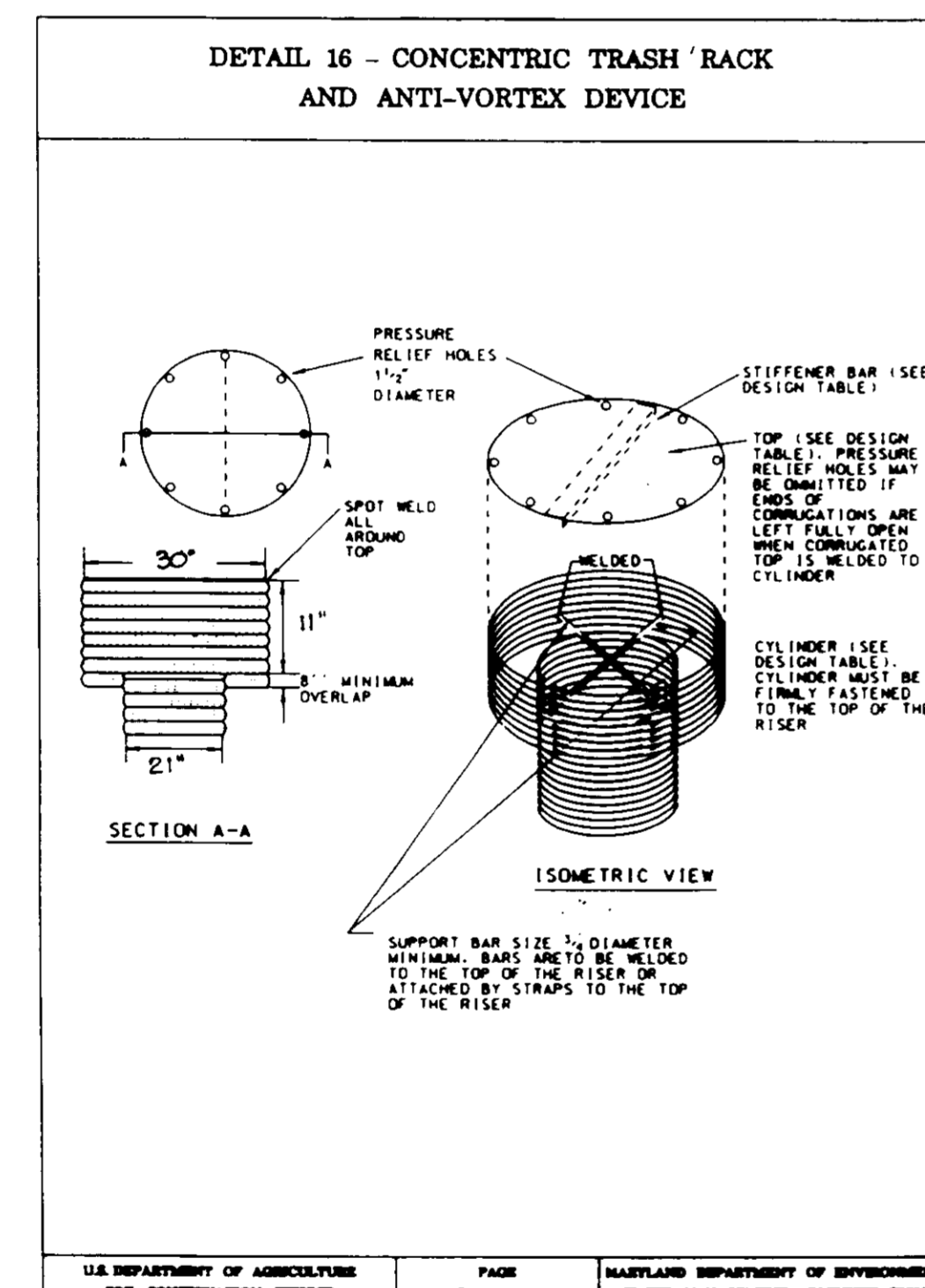
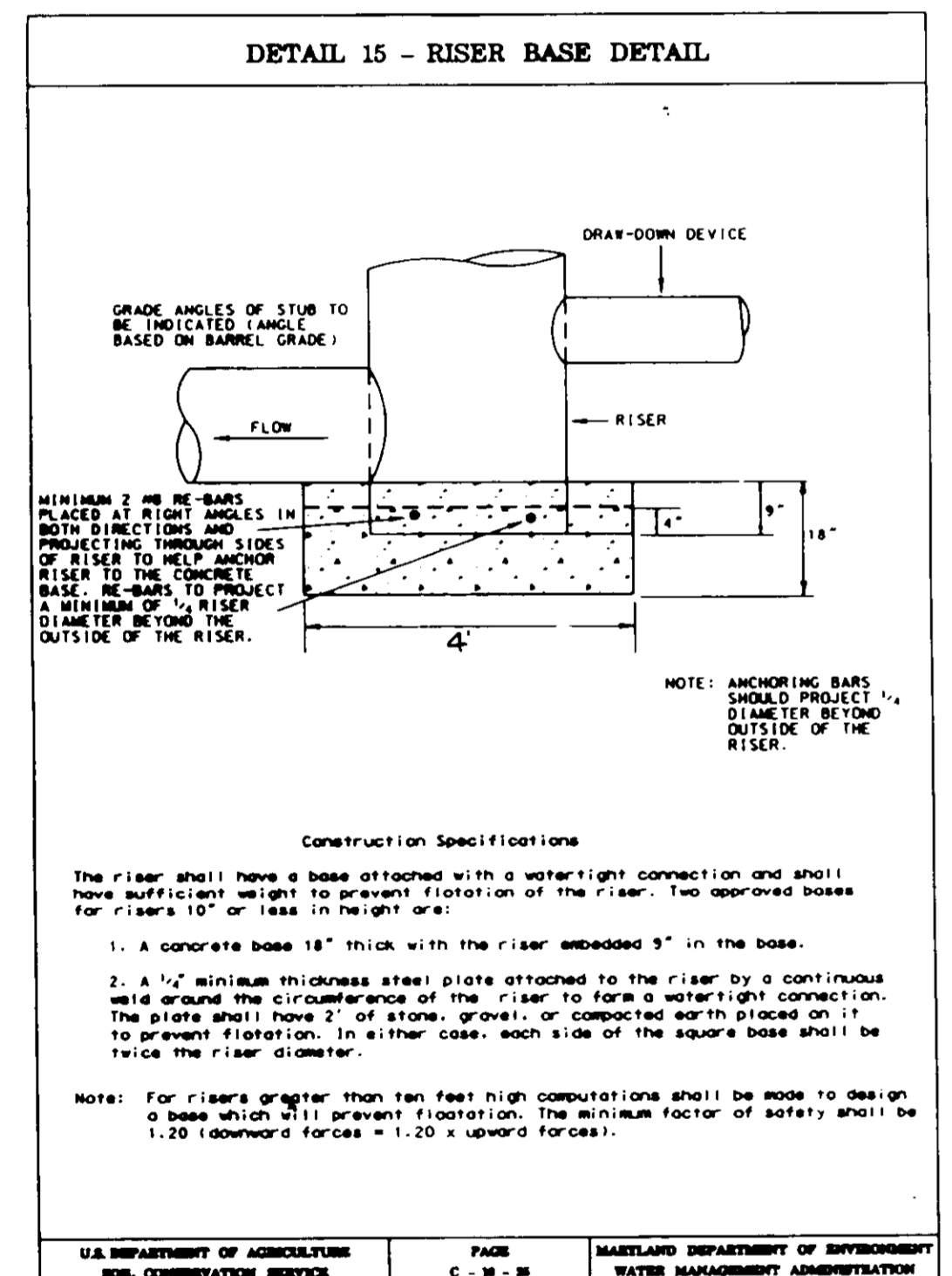
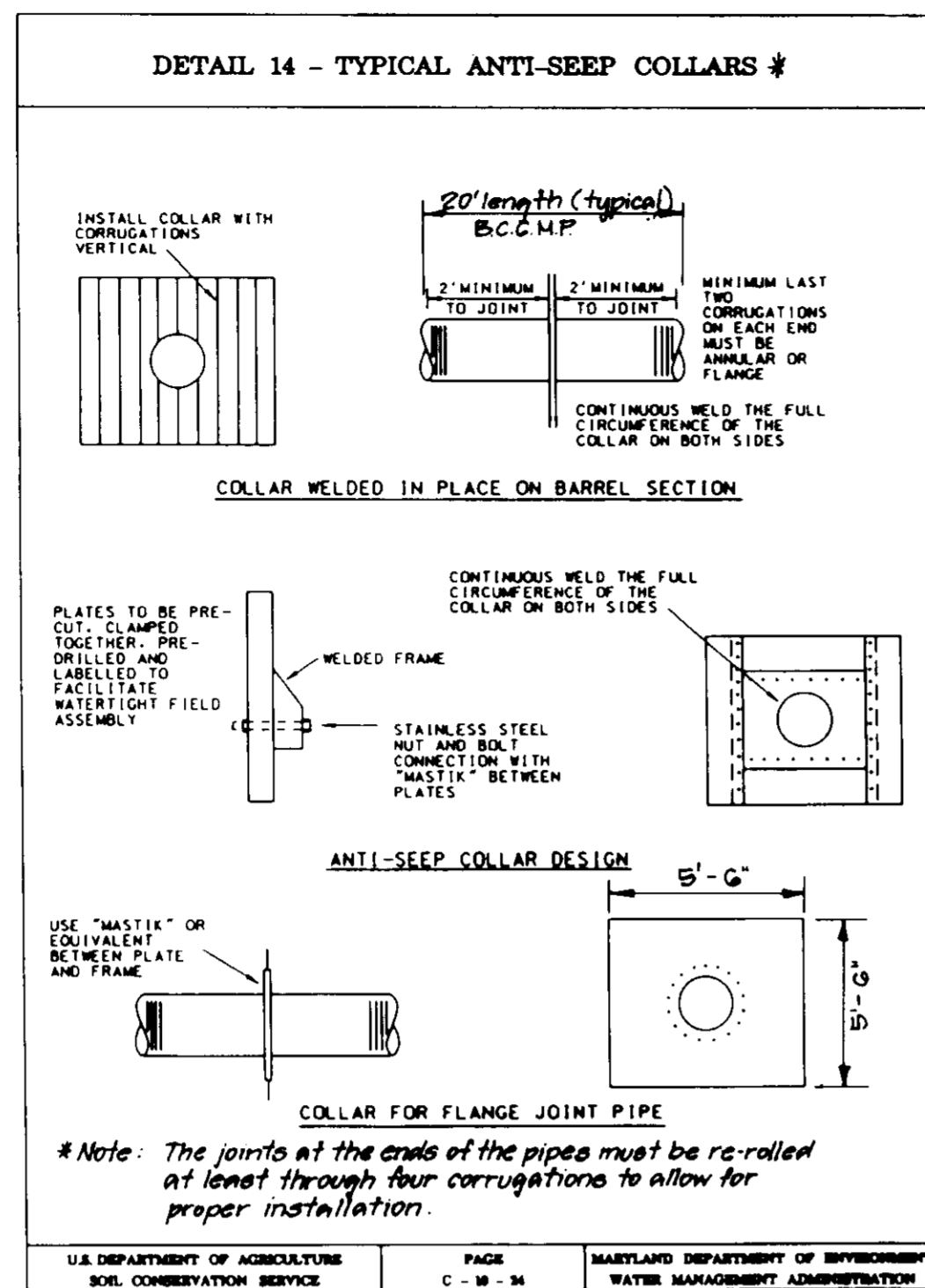
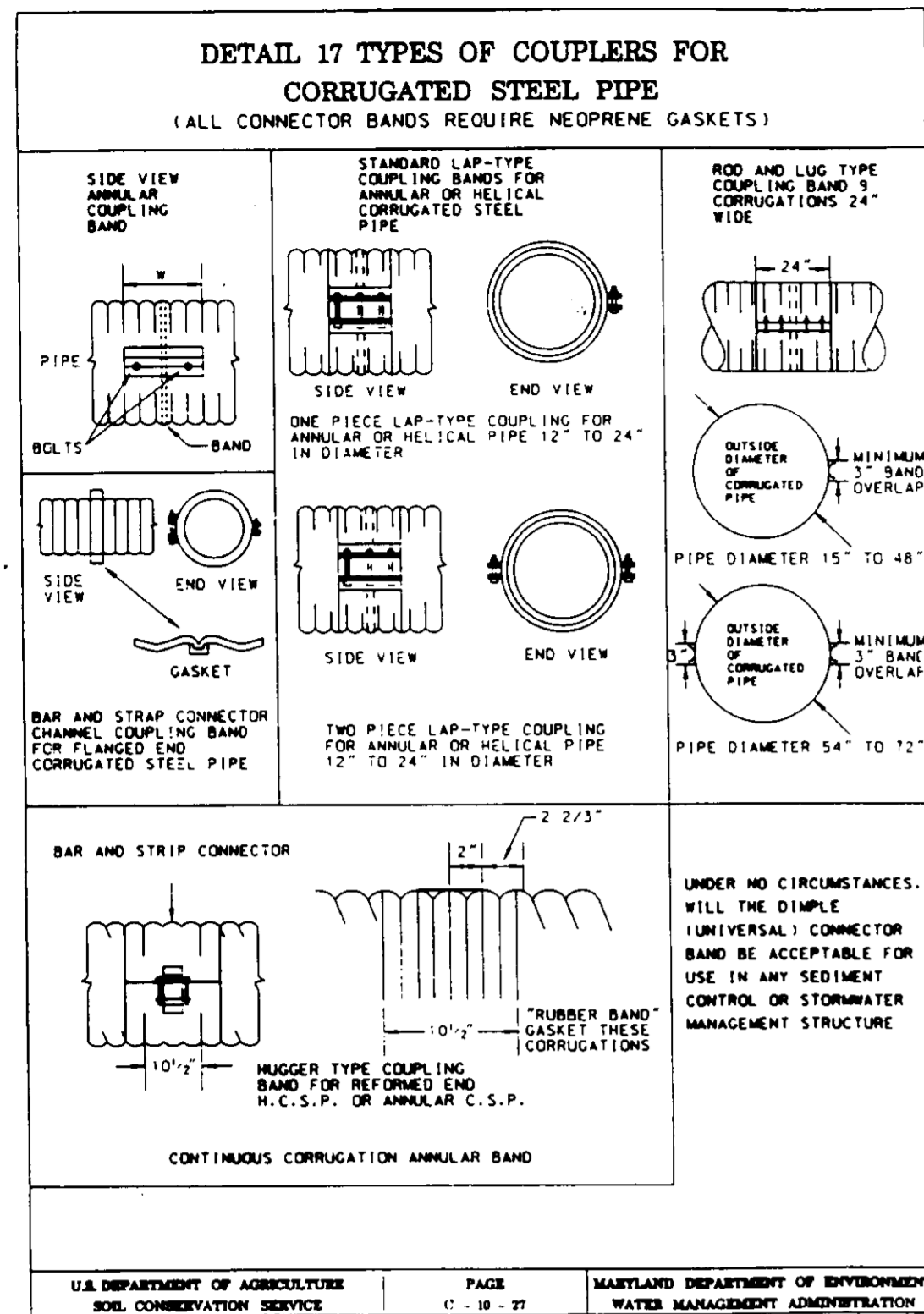


APPROVED: DEPARTMENT OF PLANNING AND ZONING
Signature: *[Signature]* Date: 8/25/95
Division of Land Development and Research CPH Date: 8/25/95

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: *[Signature]* Date: 8/14/95

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DESIGNED J.L.S.	STORM DRAINAGE AND WATER & SEWER PROFILES WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 40, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN J.L.S.	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	DRAWING 2 of 20
CHECKED J.L.S.		JOB NO. 02-228
DATE 8-10-95		FILE NO. 02-228 X

SDP 95-118



POND CONSTRUCTION SPECIFICATIONS

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 structure areas shall be grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel areas and steep breaks shall be sloped to no steeper than 1:1.

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 50 foot radius around the inner 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 areas.

Earth Fill

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", iron or other objectionable material. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment design and construction as supervised by a geotechnical engineer.

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 embankment portions of the embankment. The principal spillway must be installed concurrently with all placement and not excavated into the embankment.

Compaction: The movement of the heading 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 track tread of the 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.

Where a minimum required density is specified, it 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 to be determined by AASHTO Method T-99.

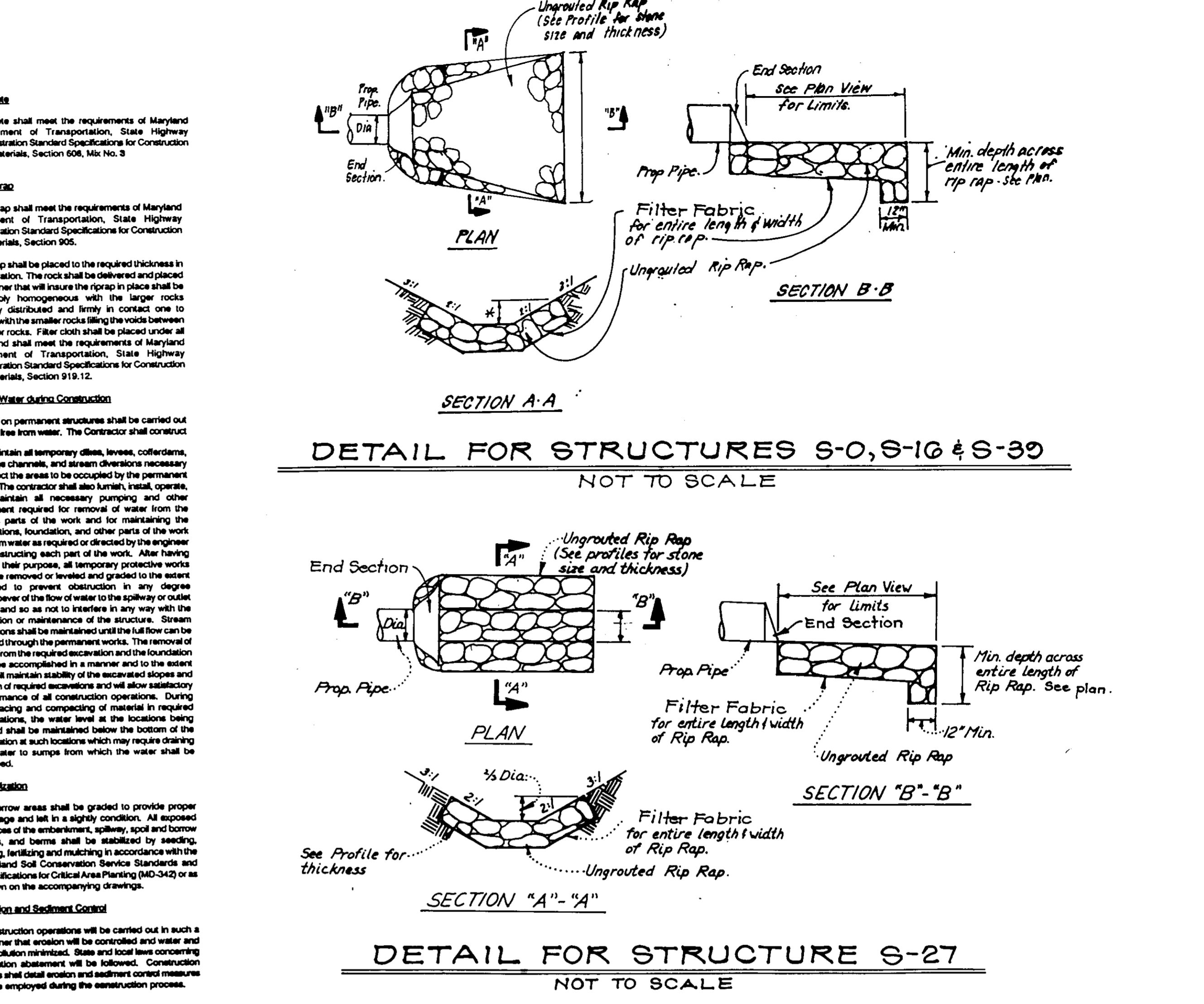
Side Slopes: The cutoff trench shall be excavated into previous material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation with the minimum width being four feet. The depth shall be at least 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.

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 operated compaction equipment. The material inside will completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall 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.

Pipe Details

All pipes shall be circular in cross section.



These plans for small pond construction soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Approved: *[Signature]* Date: 8/10/95

These plans have been revised for the Howard Soil Conservation District and meet technical requirements for ~~soil erosion and sediment control~~.

Approved: *[Signature]* Date: 8/10/95

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

[Signature] Date: 8/10/95

By the Developer:

"I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

[Signature] Date: 8/10/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] Date: 8/25/95

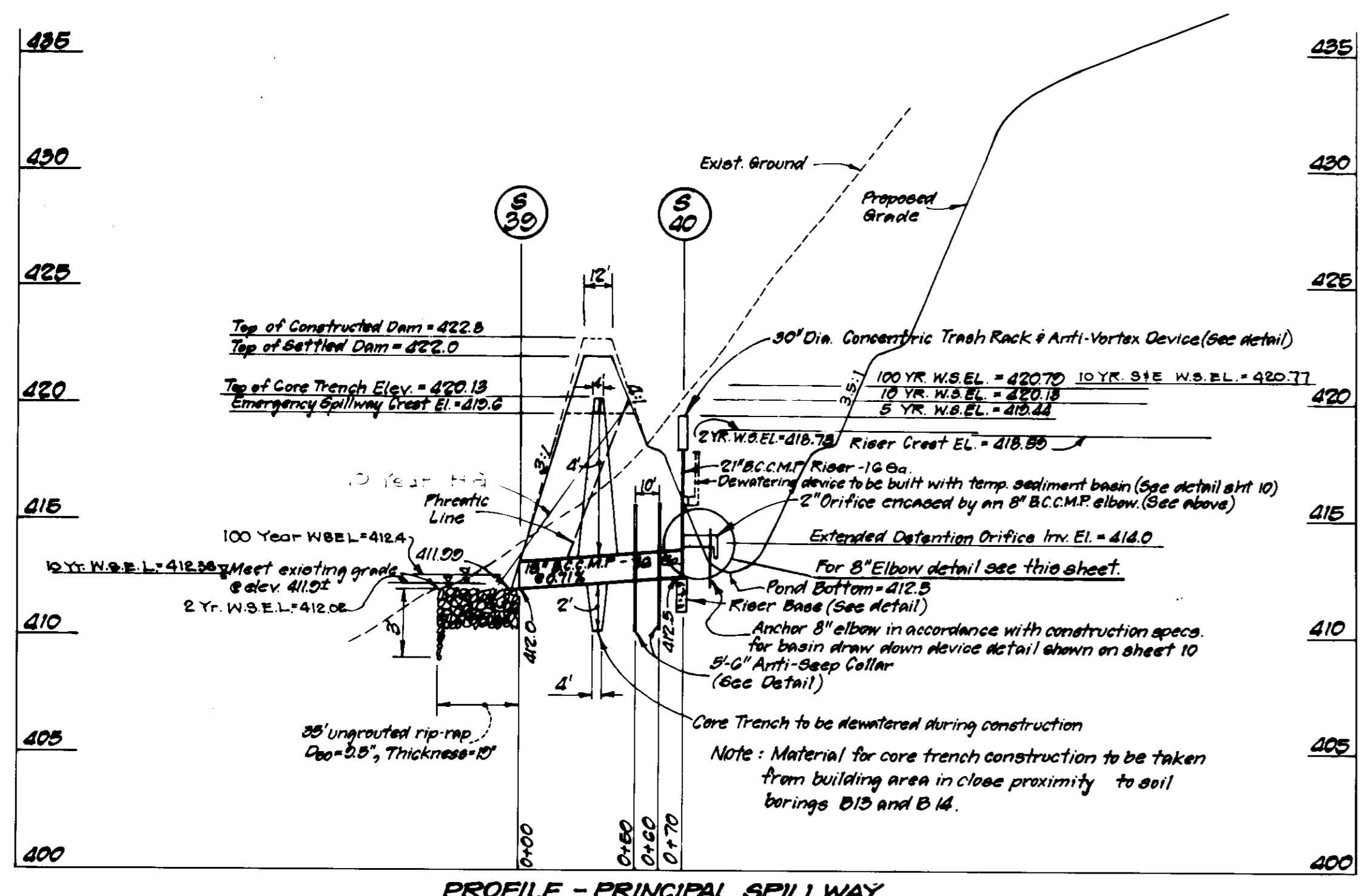
[Signature] Date: 8/25/95

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ENGINEERS • PLANNERS • SURVEYORS

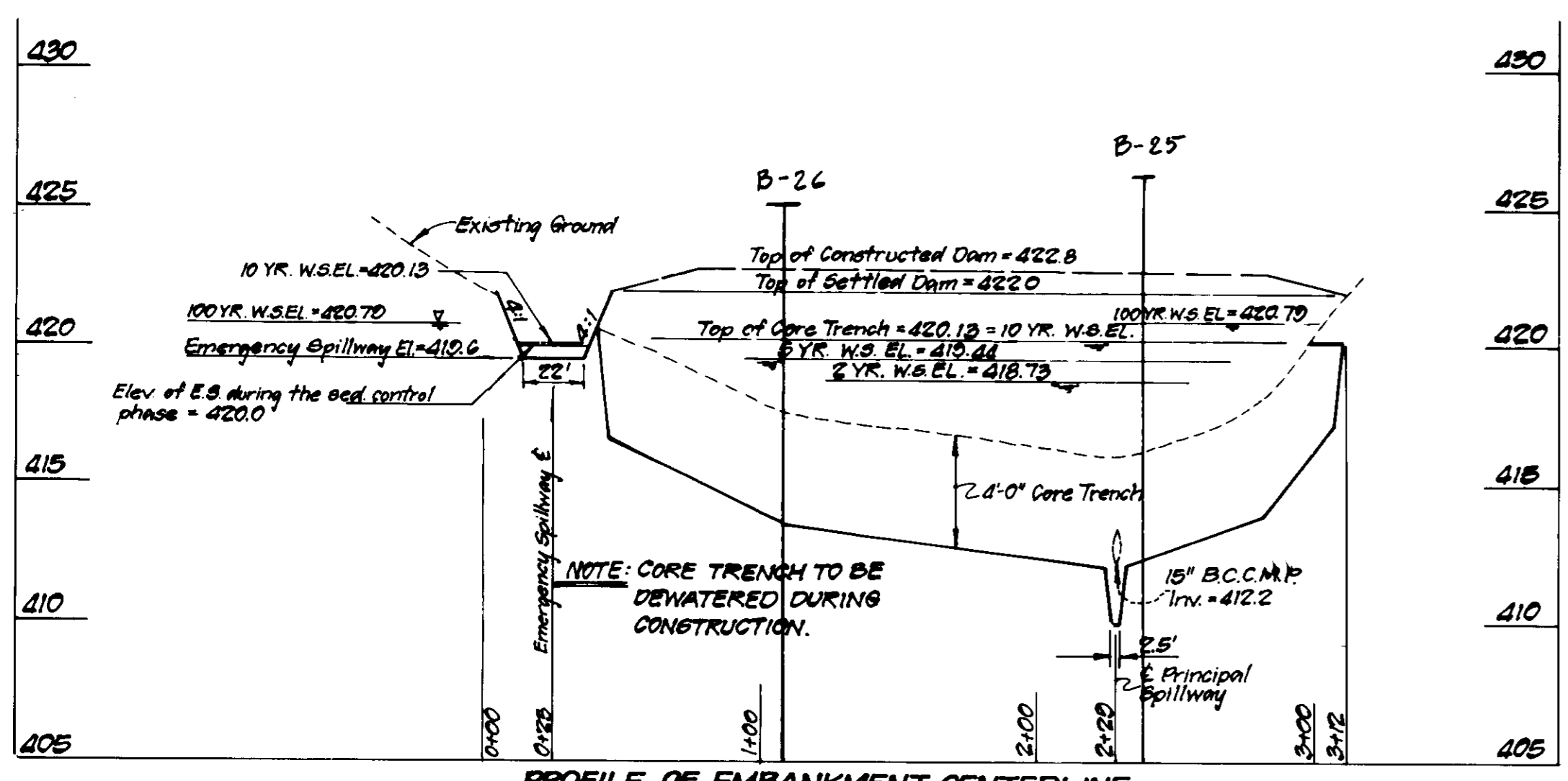
7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 • BALTO • (301) 621-8100 - WASH

DESIGNED	STORM DRAINAGE DETAILS	SCALE
DRAWN	WESTERN ELEMENTARY SCHOOL #2	DRAWING 10 of 20
CHECKED	TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 02-228
DATE	FOR: HOWARD COUNTY BOARD OF EDUCATION 10010 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	FILE NO. 02-228-X

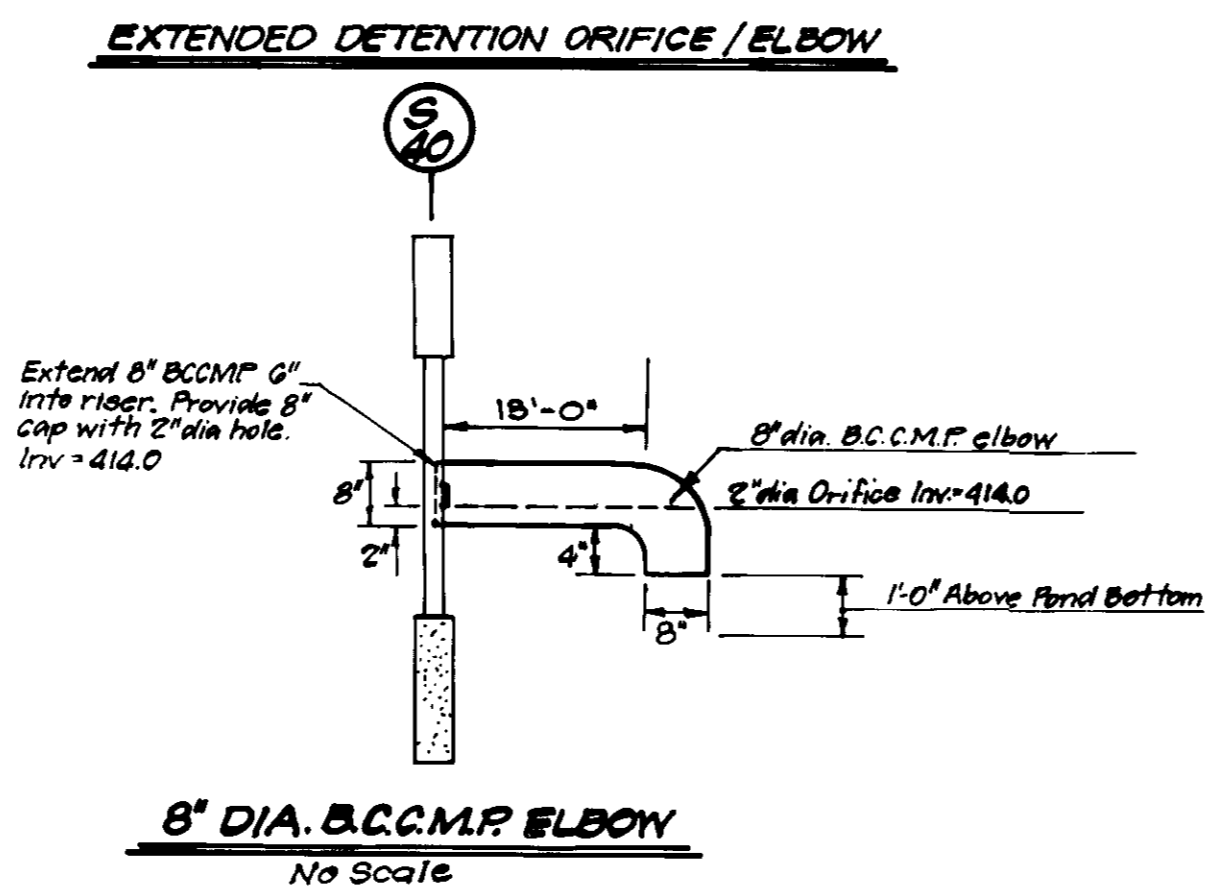
SDP 95-118



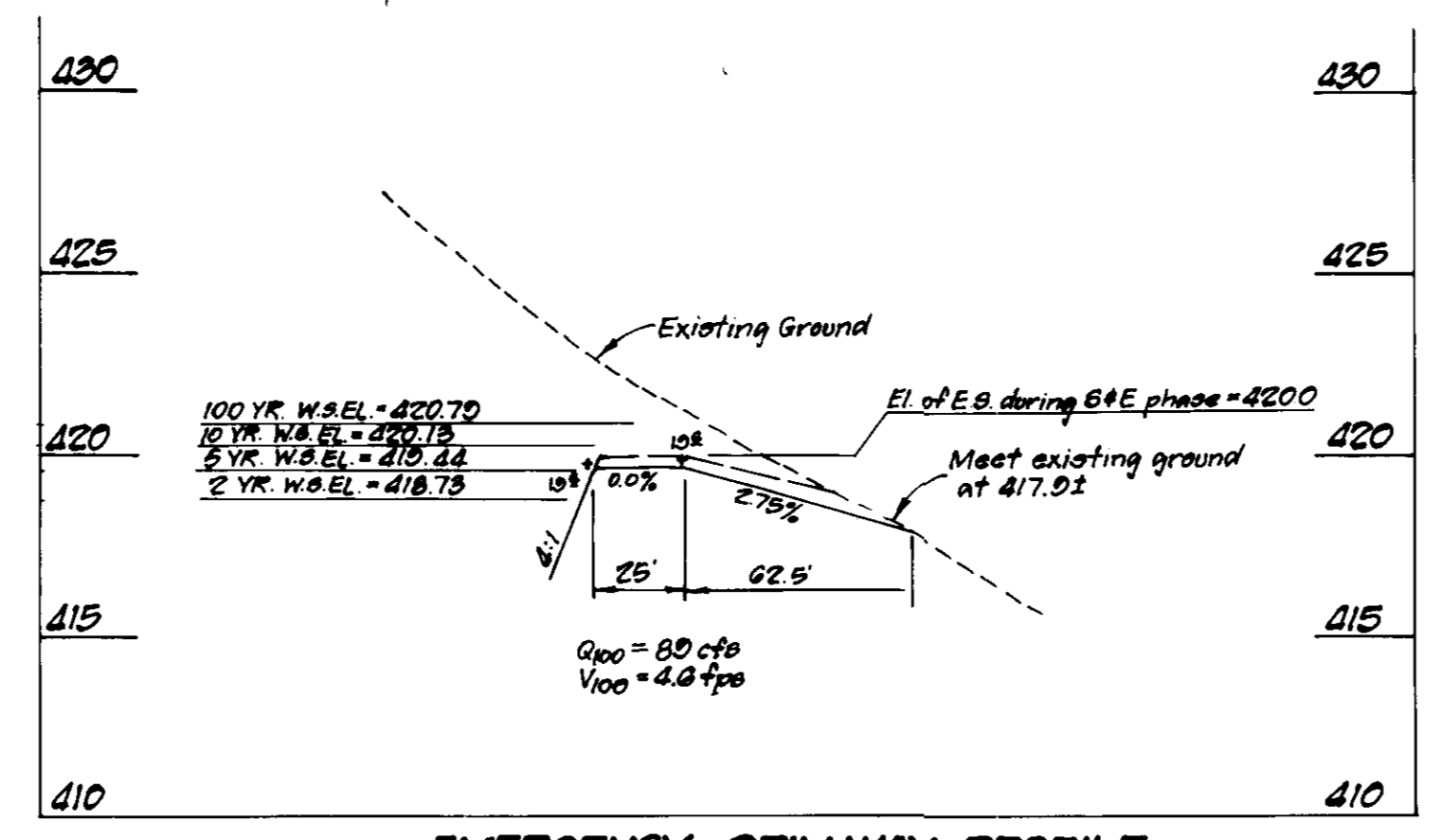
PROFILE - PRINCIPAL SPILLWAY
Scale = HOR: 1"=50'
VER: 1"=5'



PROFILE OF EMBANKMENT CENTERLINE
Scale = HOR: 1"=50'
VER: 1"=5'



8" DIA. B.C.C.M.P. ELBOW
No Scale



EMERGENCY SPILLWAY PROFILE
Scale = HOR: 1"=50'
VER: 1"=5'

OPERATION, MAINTENANCE & INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS Standards and Specifications for Ponds (MD-378). The pond owner(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continuous operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

Maintenance Schedule for SWM Pond

- Forebays to be inspected after each major storm or every month. Trash to be removed as necessary.
- Marsh areas to be inspected once a month and excessive growth cut or mowed as required (No growth above 18" over marsh pool allowed) during growing season.
- Pond slopes and benches to be mowed once every month during growing season.
- Trash to be removed from trash racks after each major storm or every month.
- An annual inspection of the pond is to be done.
- Remove sediment from forebay areas when depth exceed 4".
- Corrective maintenance is to be done as needed if the ponds are found to be unfunctional (i.e., water quality facilities or extended detention facilities don't drain back to the marsh pool elevation within 60 hours).

BORING LOG

Client: Howard County Public School System
Project: Western Elementary School No. 2, Howard County, Maryland
Boring No.: B-25 (1 of 1)
Date: May 1995

Depth	Remarks
0.0	Surface
0.5	3.0
1.0	4.0
1.5	5.5
2.0	6.5
2.5	7.5
3.0	8.0
3.5	9.0
4.0	10.5
4.5	13.5
5.0	15.0
5.5	18.5
6.0	19.2
6.5	20.0
7.0	
7.5	
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BORING LOG

Client: Howard County Public School System
Project: Western Elementary School No. 2, Howard County, Maryland
Boring No.: B-26 (1 of 1)
Date: May 1995

Depth	Remarks
0.0	Surface
0.5	3.0
1.0	4.0
1.5	5.5
2.0	6.5
2.5	7.5
3.0	8.0
3.5	9.0
4.0	10.5
4.5	13.5
5.0	15.0
5.5	18.5
6.0	19.2
6.5	20.0
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BORING LOG

Client: Howard County Public School System
Project: Western Elementary School No. 2, Howard County, Maryland
Boring No.: B-27 (1 of 1)
Date: May 1995

Depth	Remarks
0.0	Surface
0.5	3.0
1.0	4.0
1.5	5.5
2.0	6.5
2.5	7.5
3.0	8.0
3.5	9.0
4.0	10.5
4.5	13.5
5.0	15.0
5.5	18.5
6.0	19.2
6.5	20.0
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APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research

These plans for ~~small pond construction~~ soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Approved: *[Signature]* 8/16/95
 Howard S.C.D.

These plans have been reviewed for the Howard Soil Conservation District and meet technical requirements for ~~small pond construction~~ soil erosion and sediment control.
 Approved: *[Signature]* 8/16/95
 Natural Resources Conservation Service

By the Engineer:
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
 Signature of Engineer: *[Signature]* Date: 8/10/95

By the Developer:
 "I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 Signature of Developer: *[Signature]* Date: 8/10/95



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 ENGINEERS • PLANNERS • SURVEYORS
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DESIGNED Z.A.L.	INTERIM STORMWATER MANAGEMENT DETAILS WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN Z.A.H.		DRAWING 11 of 20
CHECKED W.H.T.		JOB NO. 02-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10010 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	FILE NO. 02-228X



E 800,000
N 482,000

SOILS LEGEND

- B Soils
- C Soils
- D Soils

LAND USE LEGEND

- 13% Imp.
- 20% Imp. (S.F. 1 acre lots)
- 55% Imp.
- Ex. Farm (5% Imp.)
- Meadow
- 40% Imp.
- 16% Imp.
- 35% Imp.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Pearson 8/1/95
 Chief, Development Engineering Division Date
Uma Jaramana 8/25/95
 Chief, Division of Land Development and Research Date
Joseph K. Smith 8/25/95
 Director Date



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DESIGNED Z.A.L.	DRAINAGE AREA MAP EXISTING CONDITIONS WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 200'
DRAWN Z.A.H.		DRAWING 12 of 20
CHECKED		JOB NO. 92-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21042	FILE NO. 92-228-X

SDP 95-118



E 482,000
N 482,000

- SOILS LEGEND**
- B Soils
 - C Soils
 - D Soils

- LAND USE LEGEND**
- 15% Imp.
 - 20% Imp. (S.F. 1 acre lots)
 - 55% Imp.
 - Ex. Farm (5% Imp.)
 - Meadow
 - 40% Imp.
 - 16% Imp.
 - School 60% Imp.
 - Open Space Lawn Good Cond.
 - 35% Imp.

NOTE: For proposed 2' contours see Sheets 14, 15 and 16.



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DESIGNED Z.A.L.	DRAINAGE AREA MAP PROPOSED CONDITIONS WESTERN ELEMENTARY SCHOOL NO. 2 <small>TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND</small>	SCALE 1" = 200'	DRAWING 13 of 20 JOB NO. 92-228 FILE NO. 92-228-D
DRAWN Z.A.H.		DATE 8-10-95	
CHECKED		FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY MARYLAND 21042	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Dammann 8/1/95
Chief, Development Engineering Division Date

Anna Simonson 8/23/95
Chief, Division of Land Development and Research Date

Joseph R. Smith 8/23/95
Director Date

CONNECT TO AND MAINTAIN ALIGNMENT AND GRADE OF EXISTING 8" D.I. SEWER PIPE

TRAP #1 SOST STII

DA= 4.8 Ac
 Bottom Elev.= 416.0
 Crest Elev.= 421.0
 Cleanout Elev.= 417.5
 Bottom Dimensions= 25'x80'
 Wet Storage Depth= 3'
 Volume Req'd= 8640 c.f.
 Volume Provided= 8028 c.f.
 Dry Storage Depth= 2'
 Volume Req'd= 8640 c.f.
 Volume Provided= 8028 c.f.
 L= 20'
 2:1 Side Slopes

20 L.F. ungrouted Rip Rap - See detail Sheet 9 of 20

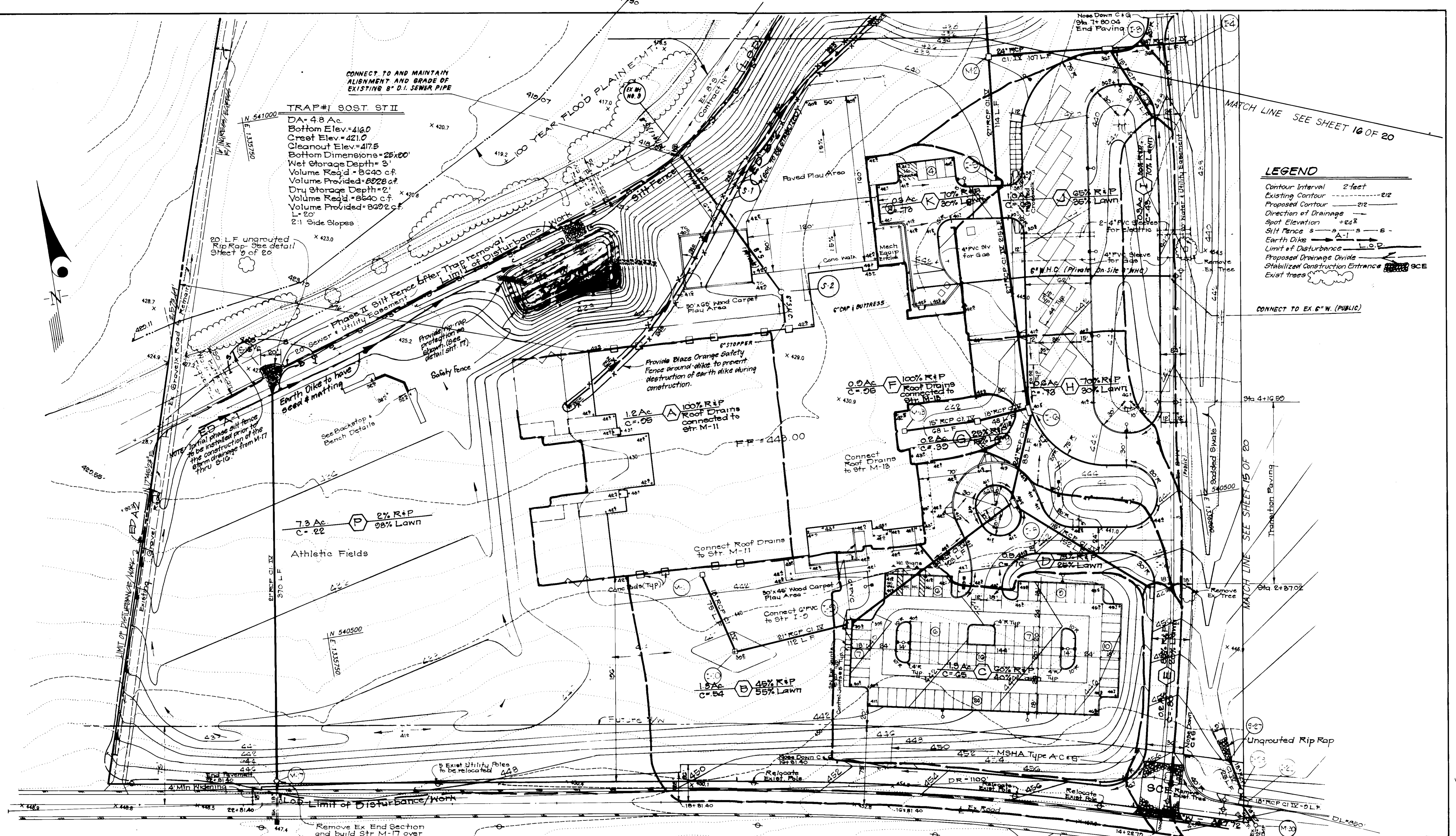
LEGEND

Contour Interval	2-foot
Existing Contour	----- 2'2
Proposed Contour	----- 2'2
Direction of Drainage	→
Spot Elevation	+ 42.5
Silt Fence	--- s --- s --- s ---
Earth Dike	--- A ---
Limit of Disturbance	L.O.D.
Proposed Drainage Divide	←
Stabilized Construction Entrance	SC.E
Exist trees	(Symbol)

CONNECT TO EX. 6" W. (PUBLIC)

MATCH LINE SEE SHEET 15 OF 20

MATCH LINE SEE SHEET 16 OF 20



NOTE: REVISIONS MADE HEREAFTER 7/24/95 ARE PREPARED BY: JOYCE ENGINEERING CORPORATION 10764 BALTIMORE AVE BELLEVILLE, MD 20705 PHONE: (301) 549-4882

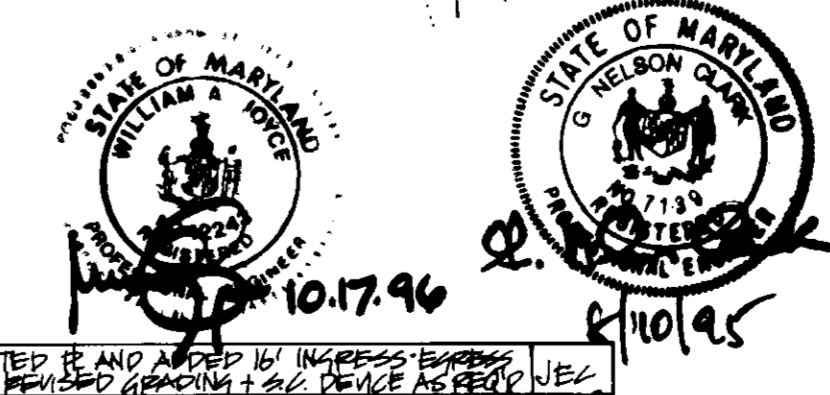
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research

Reviewed for: HOWARD S.C.D.
 and meets Technical Requirements
 Signature: [Signature]
 Natural Resources Conservation Service

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

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

ENGINEER'S CERTIFICATE
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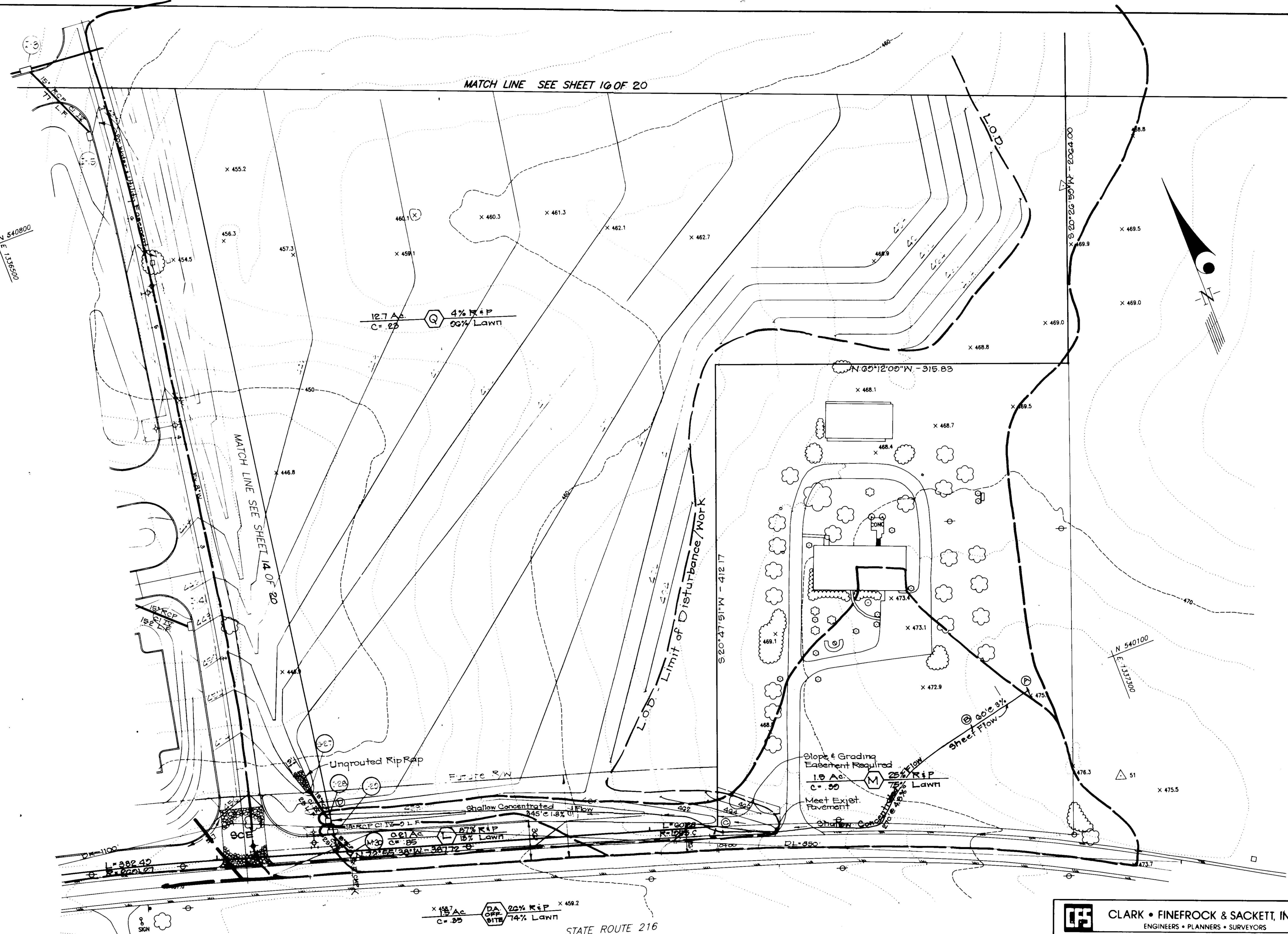


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 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED	ZAL	SCALE	1"=40'
DRAWN	ZH	DRAWING	14 of 20
CHECKED	WJK	JOB NO.	92-228
DATE	8-10-95	FILE NO.	92-228X

SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 46, PARCEL 115
 FIFTH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042



MATCH LINE SEE SHEET 10 OF 20

MATCH LINE SEE SHEET 14 OF 20

12.7 Ac
C = .25
4% R+P
99% Lawn

Slope & Grading
Easement Required
1.9 Ac
C = .50
25% R+P
75% Lawn
Meet Exist.
Pavement

1.9 Ac
C = .25
20% R+P
74% Lawn

DEVELOPER'S/BUILDER'S CERTIFICATE
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 [Signature] 8/10/95
 NAME

ENGINEER'S CERTIFICATE
 "I hereby certify that this plan for Sediment and Erosion Control represents a practical and suitable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 [Signature] 8/10/95
 G. NELSON CLARK DATE



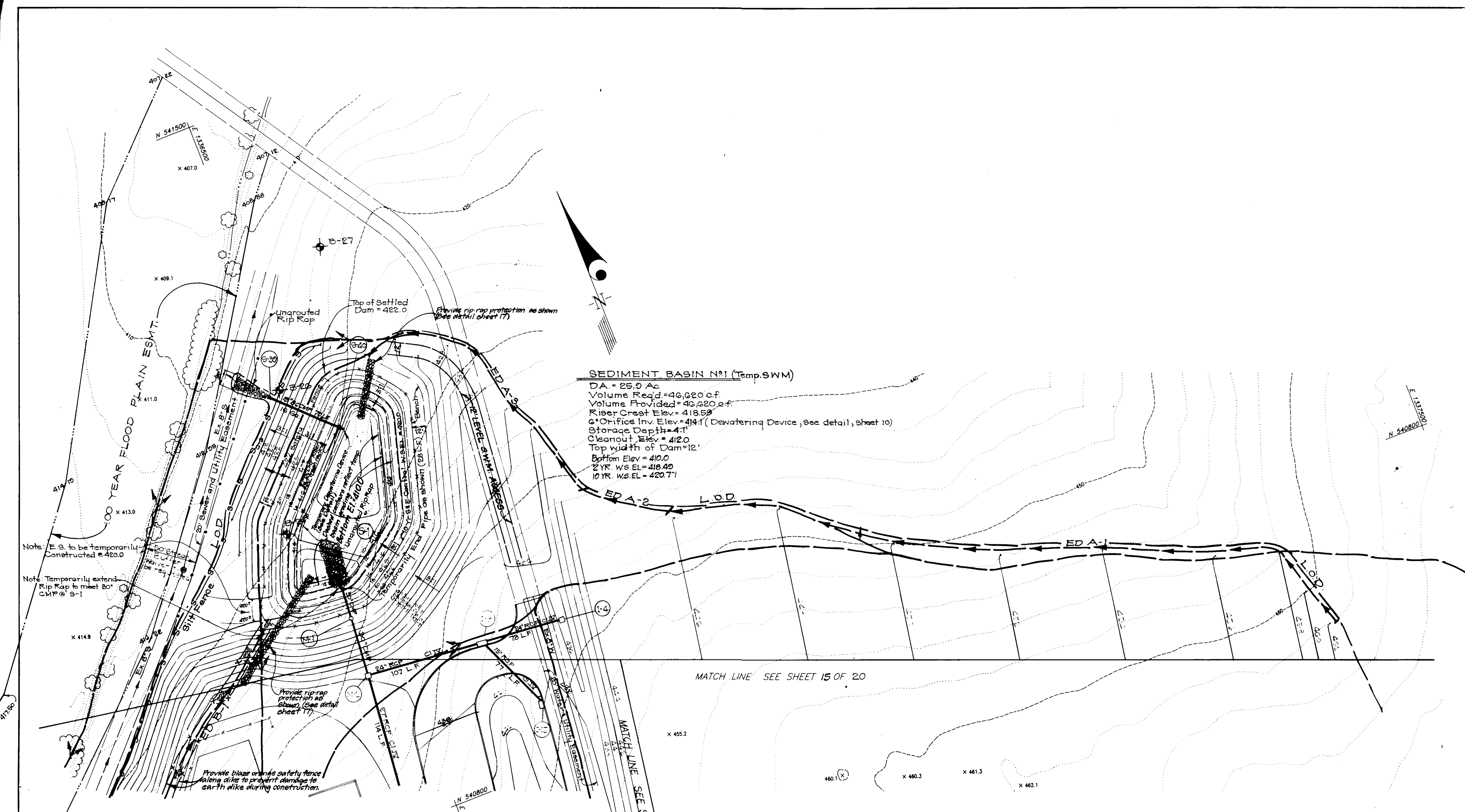
Reviewed for: HOWARD S.C.D.
 meets Technical Requirements
 [Signature] 8/10/95
 Signature
 Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURE RESOURCES CONSERVATION SERVICE
 [Signature] 8/10/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 8/10/95
 Chief, Development Engineering Division
 [Signature] 8/10/95
 Chief, Division of Land Development and Research
 [Signature] 8/10/95

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 • BALTO • (301) 821-8100 • WASH		SCALE 1" = 40'
DESIGNED ZAL	SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP	
DRAWN ZH	WESTERN ELEMENTARY SCHOOL NO. 2	
CHECKED WHT	TAX MAP 41 AND 48, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	DRAWING 15 OF 20 JOB NO. 02-22B FILE NO. 02-225X

SOP-95-118



SEDIMENT BASIN No. 1 (Temp. SWM)
 DA = 25.9 Ac
 Volume Req'd = 46,620 c.f.
 Volume Provided = 46,620 c.f.
 Riser Crest Elev. = 418.59
 6" Orifice Inv. Elev. = 414.1 (Dewatering Device, see detail, sheet 10)
 Storage Depth = 4.1'
 Cleanout Elev. = 412.0
 Top width of Dam = 12'
 Bottom Elev. = 410.0
 2 YR. WS. EL. = 418.40
 10 YR. WS. EL. = 420.71

Note: E.S. to be temporarily constructed @ 420.0
 Note: Temporarily extend Rip Rap to meet 20' CMP @ S-1

Reviewed for: HOWARD S.C.D.
 approves technical requirements
 Signature: [Signature] Date: 8/16/95
 Natural Resource Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: [Signature] Date: 8/16/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date: 8/21/95
 Chief, Division of Land Development and Research
 Date: 8/25/95

MATCH LINE SEE SHEET 15 OF 20

MATCH LINE SEE SHEET 14 OF 20

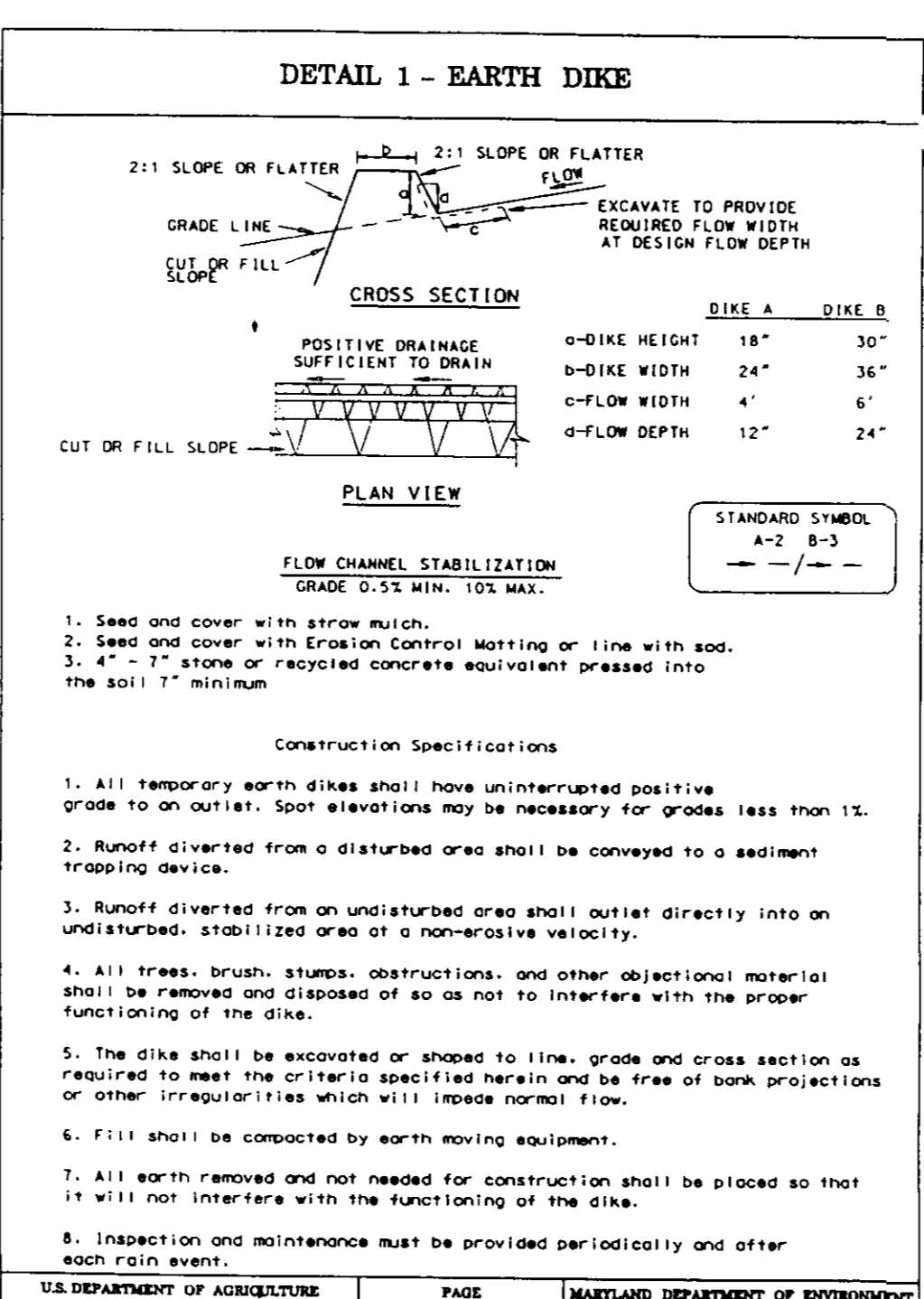
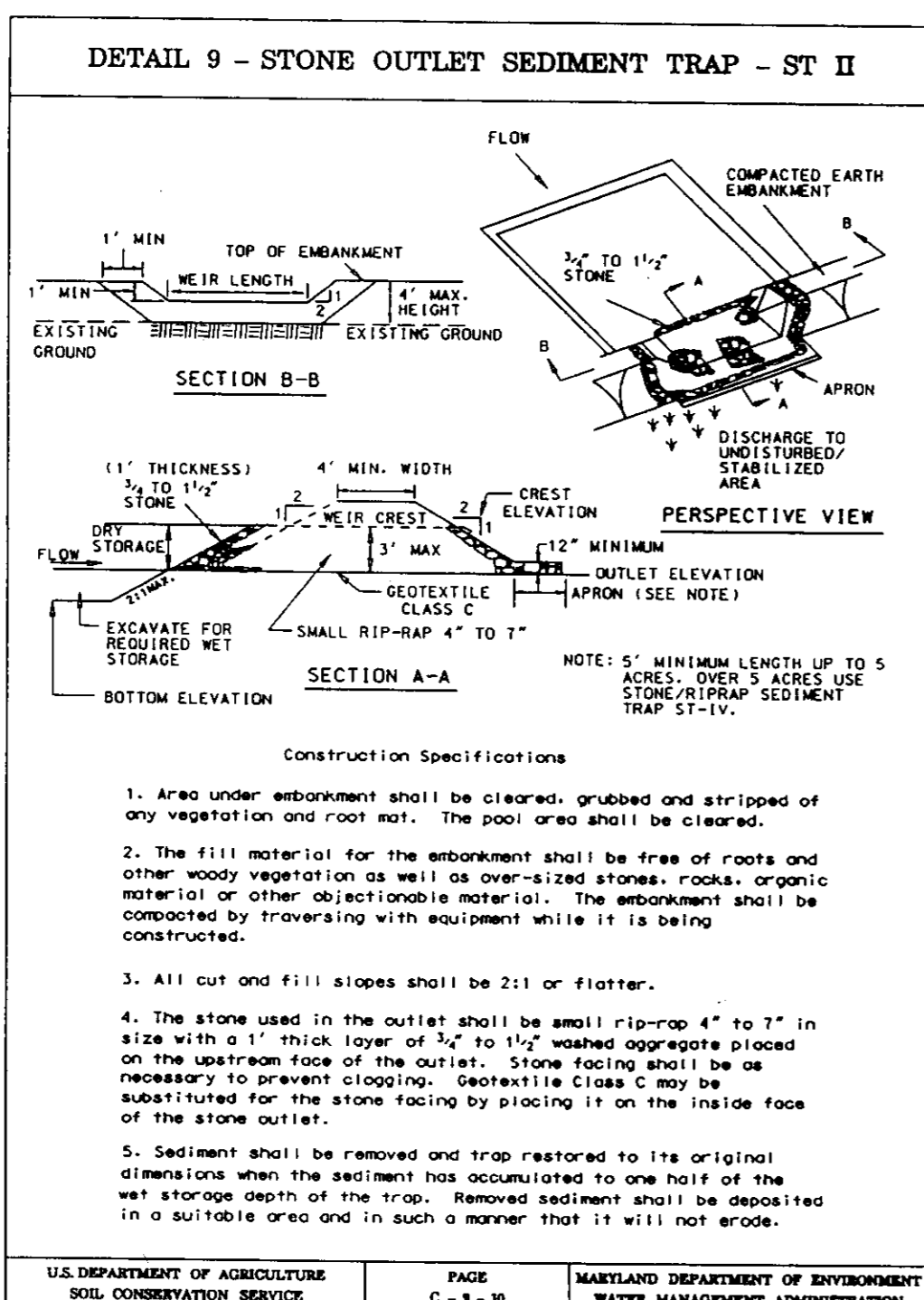
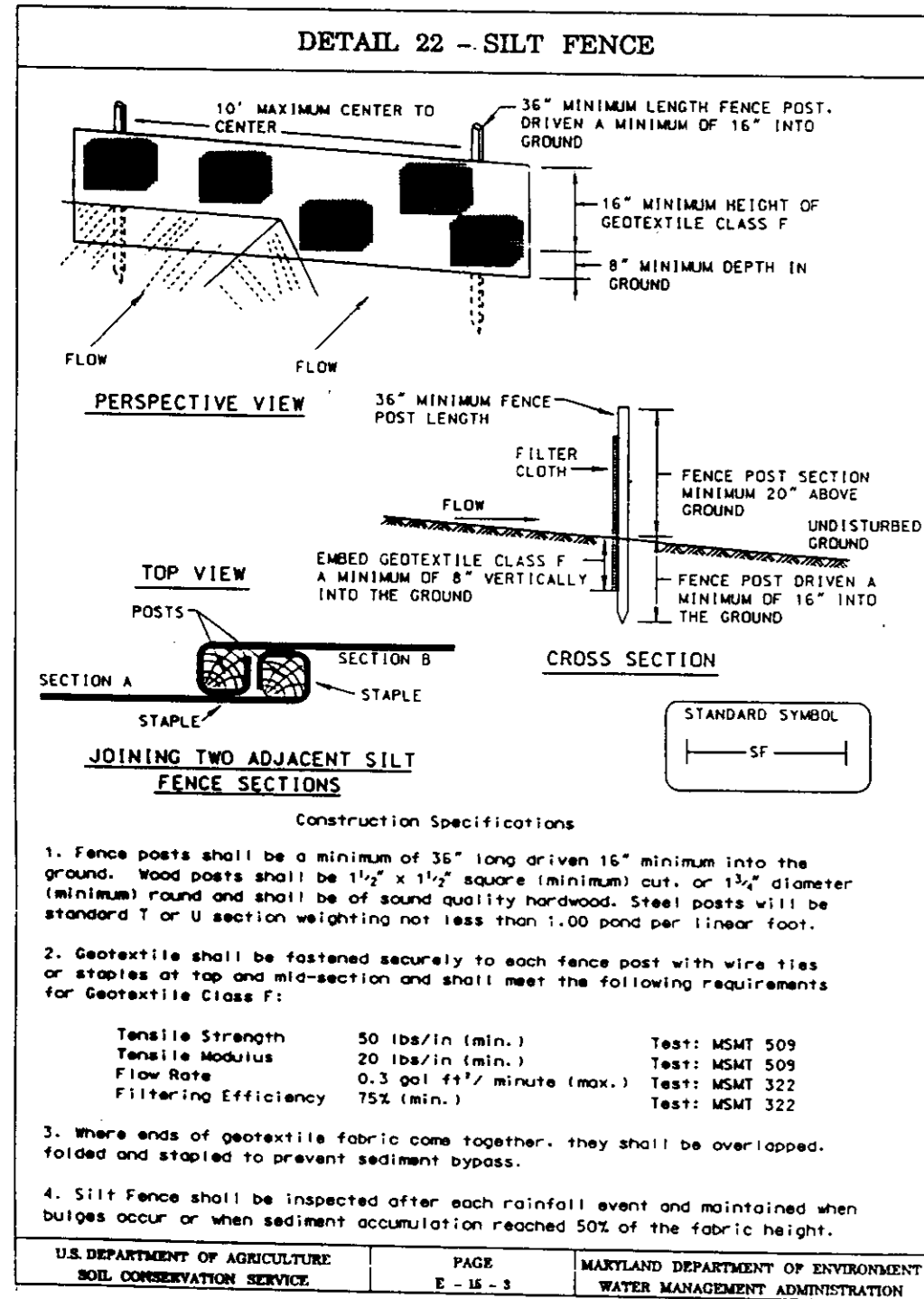
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 Signature: [Signature] Date: 8/16/95

OWNER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on the best professional knowledge of the site and the State of Maryland. I am prepared to cooperate with the State of Maryland and the Natural Resource Conservation Service.
 Signature: [Signature] Date: 8-16-95



CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 - BALTO • (301) 621-8100 - WASH		
DESIGNED ZAL	SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=40'
DRAWN ZH		DRAWING 10 of 20
CHECKED		JOB NO. 02-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10810 ROUTE 108 ELLCOTT CITY, MARYLAND 21042	FILE NO. 02-228X

SDP 95-110



SEDIMENT AND EROSION CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 - 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1
 - 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above, in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- SITE ANALYSIS:**

Total Area of Site:	101.2 Ac
Area Disturbed:	21.0 Ac
Area to be roofed or paved:	5.54 Ac
Area to be vegetatively stabilized:	21.02 Ac
Total Cut:	125,300 CY
Total Fill:	125,300 CY

 Offsite Waste/Borrow Area Location: _____
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- The total amount of silt fence = 1066 LF

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- 2) Acceptable—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq.ft.). For the period November 1 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

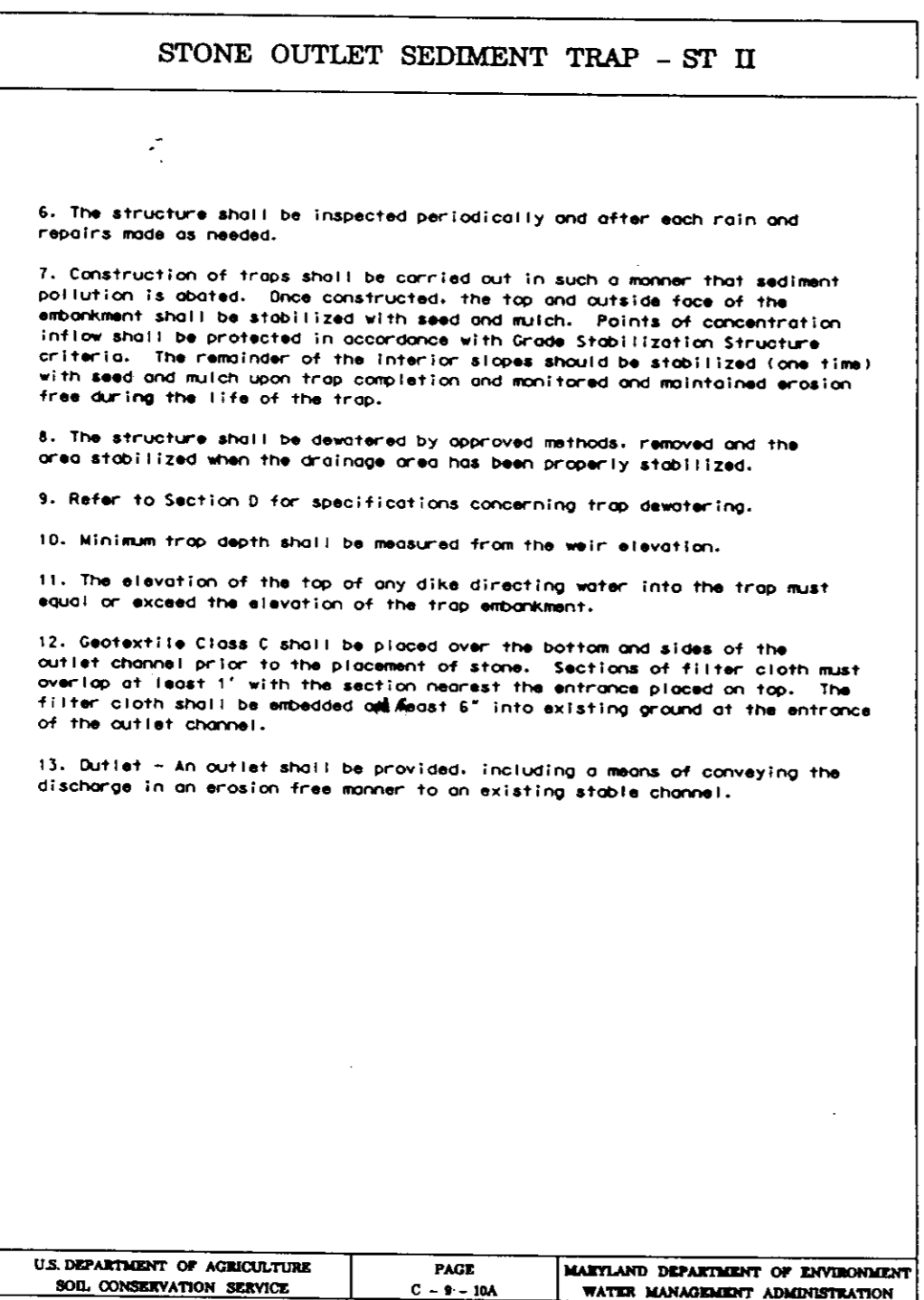
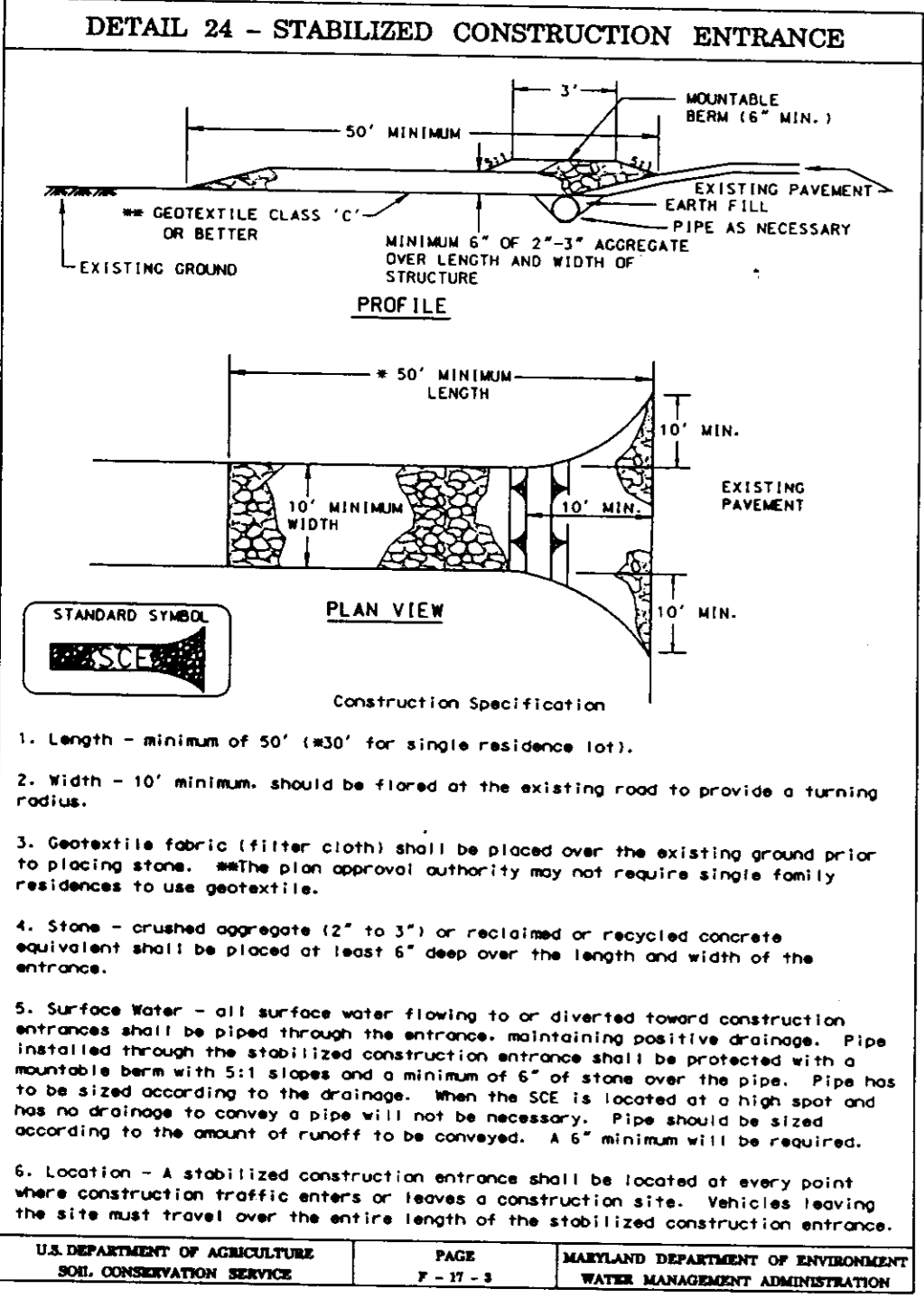


Table 2. Earth Dike Selection

Slope %	Drainage Area (acres)									
	1	2	3	4	5	6	7	8	9	10
1	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
2	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
3	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
4	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
5	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
6	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
7	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
8	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
9	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH
10	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH	SEED AND MULCH

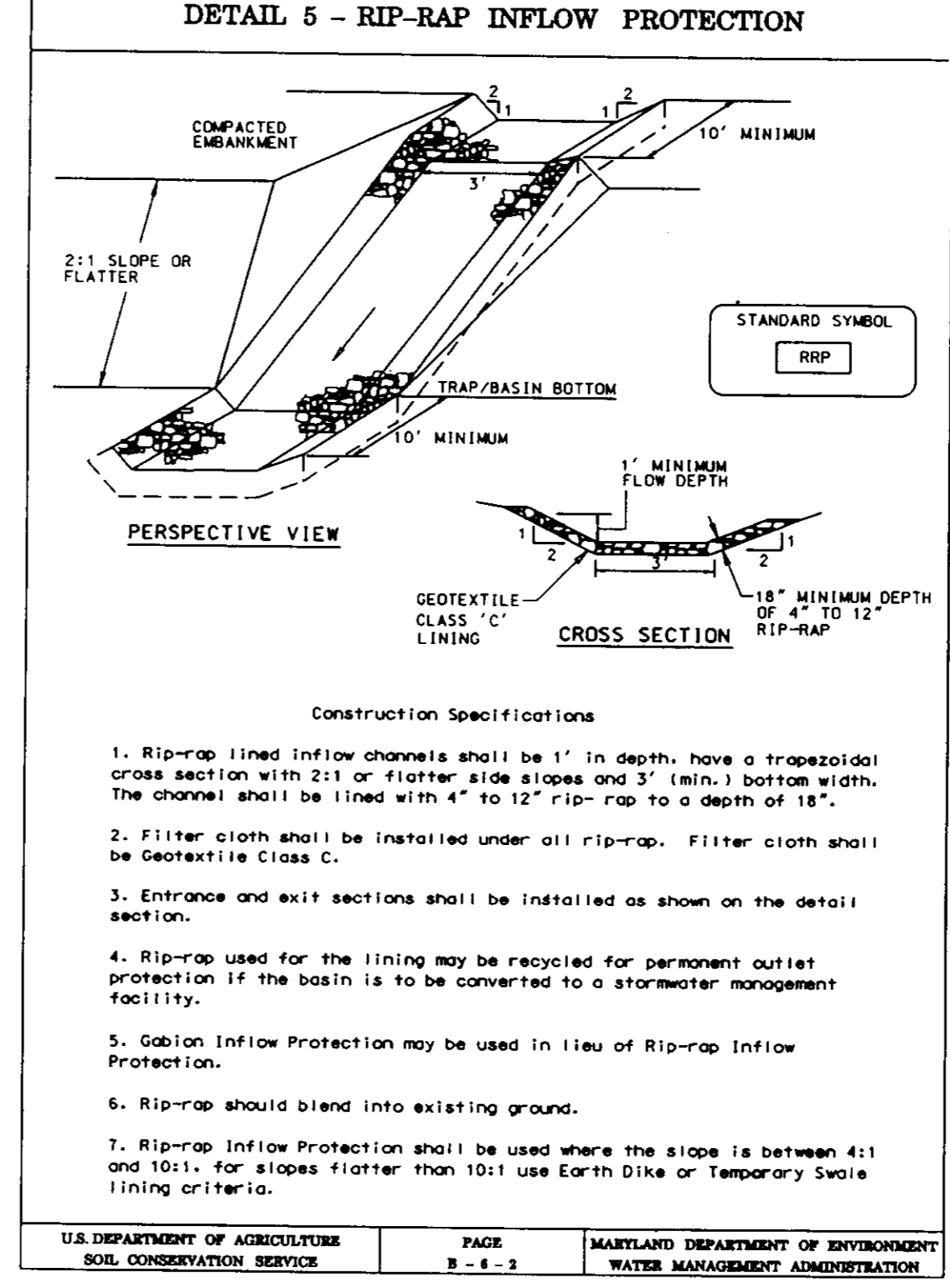
*Velocity of discharge in feet/second
** For slopes steeper than 10% refer to Section B, Grade Stabilization Structures

SEQUENCE OF CONSTRUCTION

Activity	Nr of Days
1. Obtain a grading permit.	7
1A. Install initial phase silt fence below 6:1 as shown on plan.	7
2. Construct storm drainage structures M-17 through S-16.	14
3. Install all sediment and erosion control devices.	30
4. Clear and rough grade site.	100
5. Excavate foundations and construct school.	45
6. Construct remaining storm drainage.	50
7. Construct water and sewer.	60
8. Construct Utilities.	60
9. Fine grade and construct paving, curb and gutter, and sidewalks.	60
10. Stabilize all disturbed areas on site in accordance with standards and specs.	14
11. Upon approval of the sediment control inspector remove sediment and erosion control measures and stabilize.	14
12. Install Phase 2 silt fence.	7
13. Upon approval of the sediment and erosion control inspector convert sediment basin to S.W.M. Facility no. 1	30
14. Grade pond bottom to match contours as shown on plan.	7
15. Grade forebay and install rip rap as shown on plan.	7
16. Extend storm drain as necessary from M-1 to S-0.	7
17. Adjust emergency spillway to match spot elevations shown on plan.	7
18. Install plantings as shown on plan.	30
19. Upon approval of the sediment and erosion control inspector remove any remaining sediment and erosion control devices and stabilize.	7

NOTE:

- #1 Adjust earth dikes as necessary so as to not interfere with rough grading.
- #2 The proposed stormwater management facility is an interim facility and will be removed or converted to a permanent facility in accordance with the Middle and or High School construction on the same site but not later than 3 years after obtaining "grading permit". If the facility is to become a permanent facility, the conversion must include reconstruction with concrete riser, barrel and appurtenances.
- #3



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/21/95 Date

Chief, Development Engineering Division

[Signature] 8/25/95 Date

Chief, Division of Land Development and Research

[Signature] 8/25/95 Date

Director

Reviewed for HOWARD S.C.D. meets technical requirements

[Signature] 8/14/95 Date

Natural Resource Conservation Service

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

[Signature] 8/14/95 Date

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[Signature] 8/10/95 Date

[Signature] 8/10/95 Date

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[Signature] 8-10-95 Date

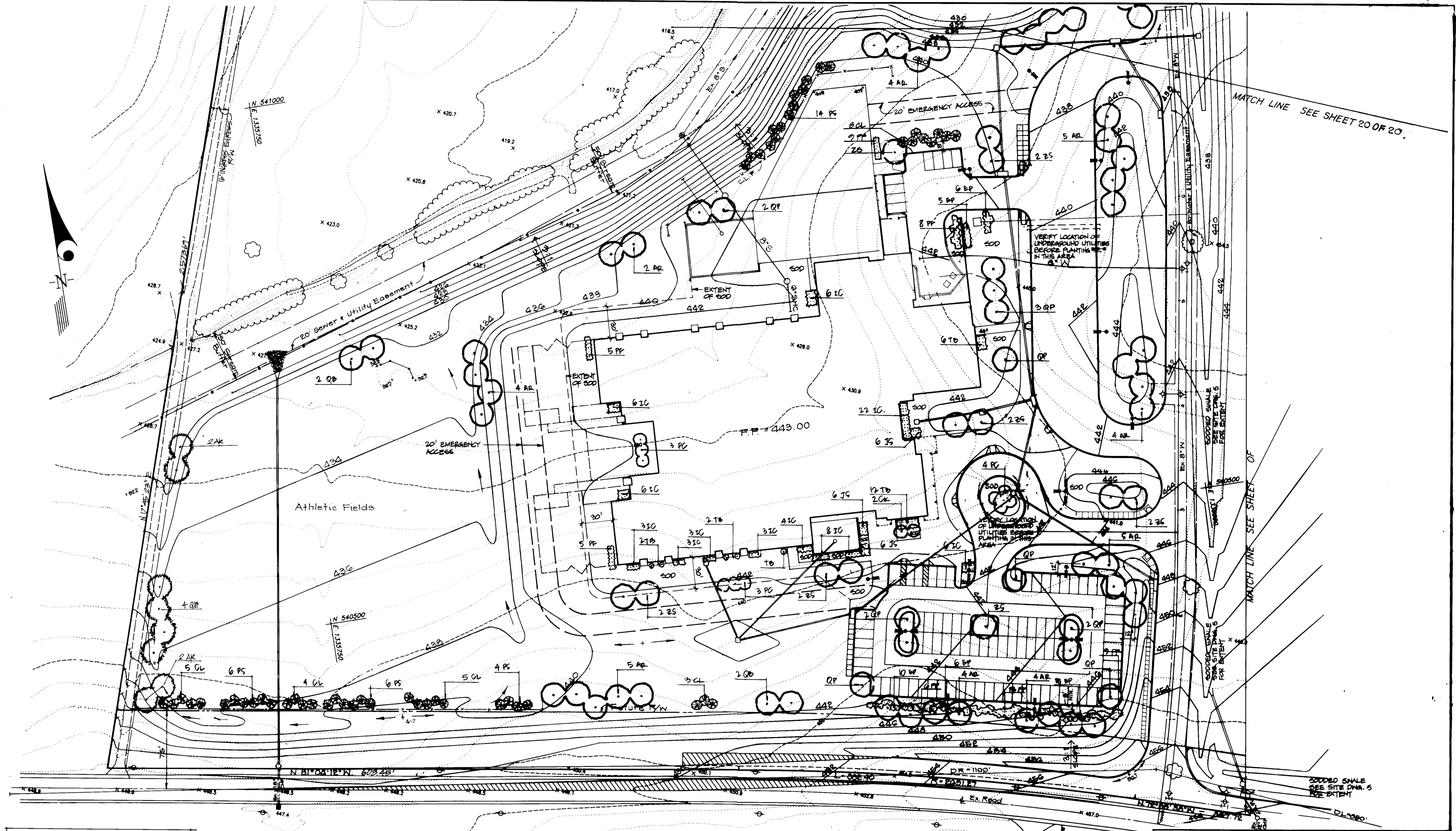
G. NELSON CLARK



CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED	SEDIMENT & EROSION CONTROL DETAILS	SCALE	---
DRAWN	WESTERN ELEMENTARY SCHOOL NO. 2	DRAWING	17 of 20
CHECKED	TAX MAP 41 AND 40, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.	02-228
DATE	FOR: HOWARD COUNTY BOARD OF EDUCATION 10010 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	FILE NO.	02-228X



MATCH LINE SEE SHEET 20 OF 20.

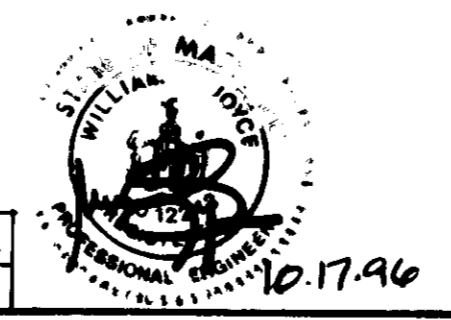
MATCH LINE SEE SHEET 19 OF 20.

NOTE: REVISIONS MADE HEREFTER 7/26/96 ARE PREPARED BY JOYCE ENGINEERING CORPORATION 10766 BALTIMORE AVE BELTSVILLE, MD 20705 PHONE: (301) 579-4333

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Dammann 8/2/95
 Chief, Development Engineering Division Date
Ann Wineman 8/25/95
 Chief, Division of Land Development and Research Date
James J. Smith 8/25/95
 Director Date

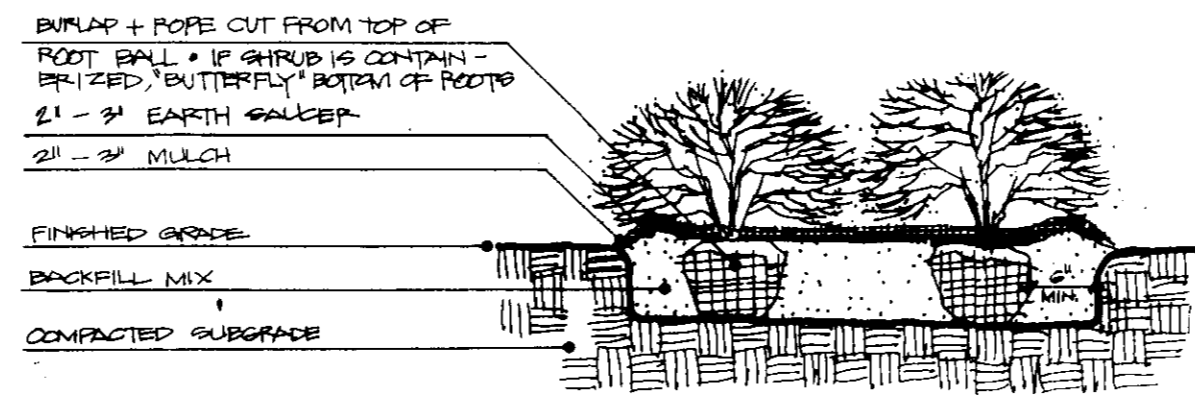
7/26/96 ADJUSTED B AND BRL APPROP TO INCREASE LEADERSHIP IN RELOCATING TREES & GRADING
 DATE: REVISIONS: BY: J.E.L. 10.17.96

8-10-95

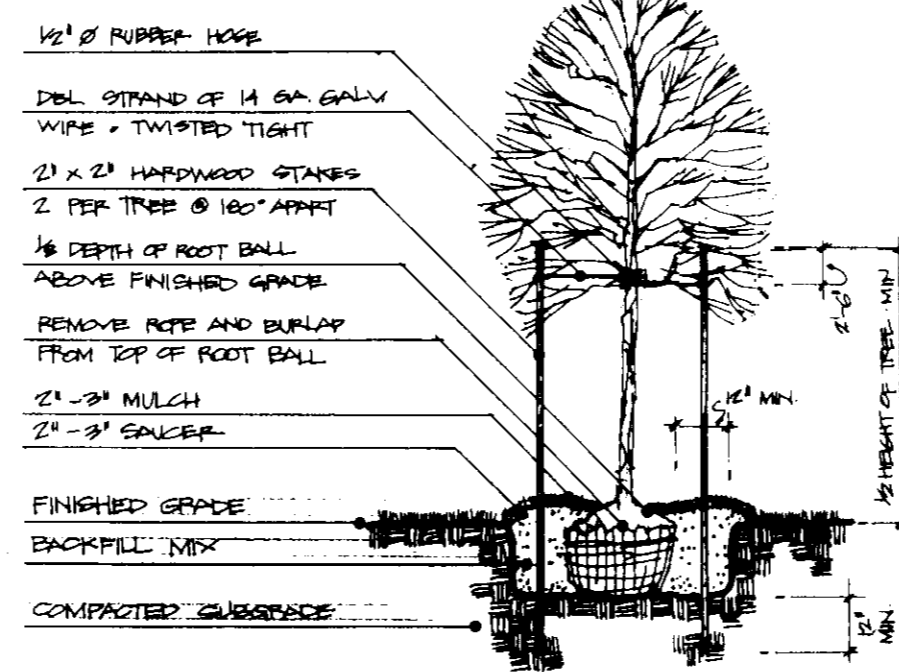


KILDUFF NAGY - LANDSCAPE ARCHITECTS
 4815 Prince George's Avenue • Suite 203
 Beltsville, MD 20705
 (301) 595-4955 FAX (301) 595-0964
 Land Planning • Landscape Architecture • Park and Recreation Planning

CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7800 - BALTO. • (301) 821-9100 - WASH.		SCALE 1" = 40' SHEETS 10 of 20 JOB NO. 92-100 DATE 8-10-95
Landscape Plan WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 42, PARCELS 115 PART (SH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND		FOR HOWARD COUNTY BOARD OF EDUCATION 1810 ROUTE 100 ELICHT CITY, MARYLAND 21038 SDP 7.5.110



Shrub Planting Detail



Tree Planting Detail

Plant List

KEY	QTY	NAME	SIZE	CONDITION
AD	45	ACED PARSUN 'OCTOBER GLOW'	12-15'; 2 1/2" cal.	B+B
AK	2	OCTOBER GLOW RED MALE	6-7'; B+B	MULTI-STEM
CK	2	CORNUS KOUSA CHINENSIS	6-7'; B+B	MULTI-STEM
CL	25	KOUSA DOGWOOD		
CR	44	CUPRESSOCYPRINUS LEYLANDII	7-8'; B+B	FULL
ER	44	LEYLANDII CYPRINUS		
EV	10	EVONYMUS PRATENSIS 'PAULI'	7-8'; B+B	
IC	70	PAULI EVONYMUS		
IG	10	ILEX COGNATA 'GREEN LUSTRE'	18" cal.	B+B
JS	18	GREEN LUSTRE JAPANESE HOLLY		
JS	18	JUNIPERUS CHINENSIS 'SARGENTI'	18" cal.	CONTAINER
JS	18	SARGENTI JUNIPER		
KE	10	PRUNUS CERASIFERA 'THUNDERCLOUD'	8-10'; 1 1/2" cal.	B+B
KE	10	THUNDERCLOUD PRUNUS		
PE	58	PIRACANNA FRACOSA	2-3'; B+B	
PS	30	PINUS STROBUS	6-8'; B+B	FULL
QB	12	BASTARD WHITE PINE		
QB	12	QUERCUS PRINCEALIS	12-15'; 2 1/2" cal.	B+B
QP	13	NORTHERN RED OAK		
QP	13	QUERCUS PRINCEALIS	12-15'; 2 1/2" cal.	B+B
TD	23	TAXUS CANADENSIS 'NORFOLK'	18" cal.	B+B
TD	23	NORFOLK TAXUS		
ZS	10	ZELKOYA SERATA 'GREEN VASE'	12-15'; 2 1/2" cal.	B+B
ZS	10	GREEN VASE ZELKOYA		

Planting Notes

- Field verify underground utility locations before starting planting work. Contact Architect if any relocations are required.
- All areas disturbed by construction activities but not otherwise planted, sodded, paved or mulched shall be seeded in accordance with project specifications.
- All plant materials shall be full and heavy, well formed and symmetrical, conform to A.A.N. Specifications and be installed in accordance with project specifications.
- All exposed earth within the limits of the planting beds shall be mulched with shredded hardwood mulch as per planting details.
- 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 precedence.
- This plan to be used for planting only.
- The contractor shall notify the Architect in writing if he/she encounters soil or drainage conditions which may be detrimental to the growth of plants.

STORMWATER MANAGEMENT SHALLOW HAZEL AREA PLANT LIST

KEY	QTY	PLANT NAME	SIZE	REMARKS
CO	15	CEPHALANTHUS OCCIDENTALIS	BARE ROOT	3 CLUMPS OF 5
PV	20	PELTANDRA VIRGINICA	BARE ROOT	ARROW-ARUM
SA	40	SCIRPUS AMERICANUS	BARE ROOT	COMMON THREE SQUARE
SL	90	SAGITTARIA LATIFOLIA	BARE ROOT	DUCK POTATO

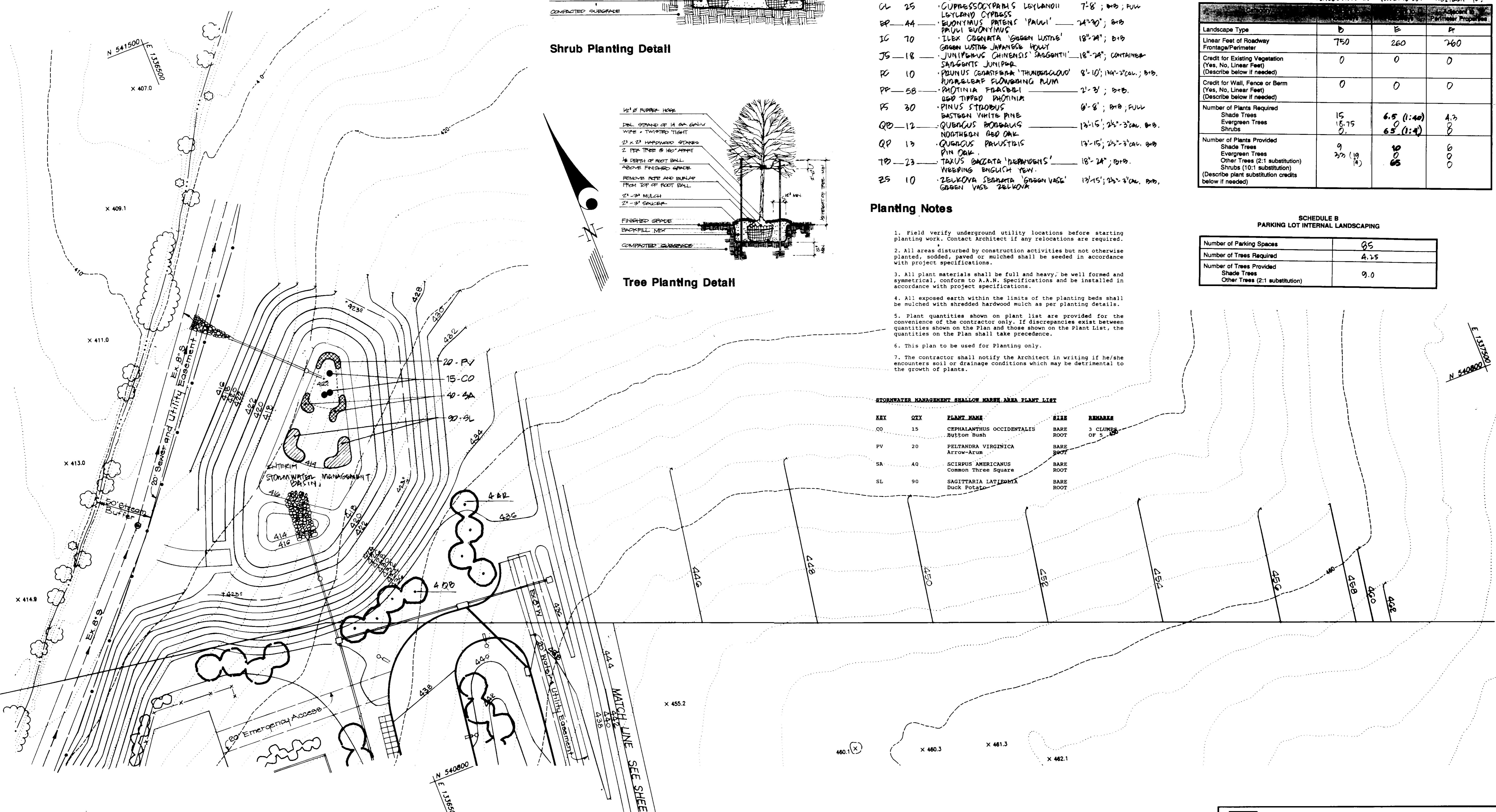
Howard County Landscape Manual Data

SCHEDULE A
PERIMETER LANDSCAPE EDGE

Landscape Type	B	E	P
Linear Feet of Roadway Frontage/Perimeter	750	260	760
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	0	0	0
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	0	0	0
Number of Plants Required			
Shade Trees	15	6.5 (1:40)	4.3
Evergreen Trees	18.75	0	0
Shrubs	0	6.5 (1:4)	0
Number of Plants Provided			
Shade Trees	9	10	6
Evergreen Trees	37 (19)	0	0
Shrubs (10:1 substitution)	0	65	0
(Describe plant substitution credits below if needed)			

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	85
Number of Trees Required	4.25
Number of Trees Provided	9.0
Shade Trees	
Other Trees (2:1 substitution)	

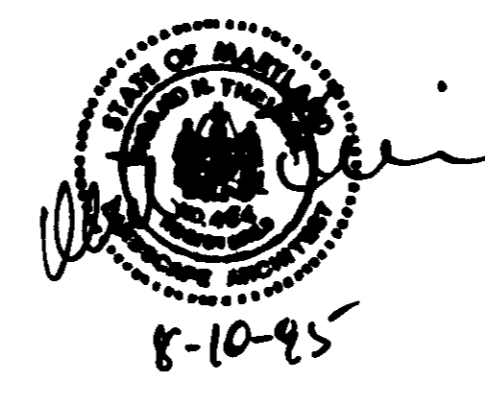


APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/21/95
Chief, Development Engineering Division

[Signature] 8/25/95
Chief, Division of Land Development and Research

[Signature] 8/25/95
Director



KILDUFF NAGY-LANDSCAPE ARCHITECTS
4815 Prince George's Avenue • Suite 203
Beltsville, MD 20705
(301) 595-4955 FAX (301) 595-0964
Land Planning • Landscape Architecture • Park and Recreation Planning

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 - BALTO. • (301) 821-8100 - WASH.

Landscape Plan
WESTERN ELEMENTARY SCHOOL NO. 2
TAX MAP 41 AND 42, PARCEL 115
FIFTH (304) ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DESIGNED: MSN
DRAWN: MSN
CHECKED:
DATE: 8-10-95

SCALE: 1"=40'
DRAWING: 20 OF 20
JOB NO.: 92-228
FILE NO.: 92-228A

FOR: HOWARD COUNTY BOARD OF EDUCATION
10810 ROUTE 108
ELICOTT CITY, MARYLAND 21042

	Allowable Release Rate @ X-Section 2(c-ft)	Computed Inflow to Facility	Discharge for Prop. Conditions at X-Section (c-ft) ²	Elev. in facility @ discharge (ft)	Storage Vol. Provided Elev. (ac-ft)	Discharge from actual facility (c-ft)
2 YR	22.80	24.91	25.76	418.73	1.240	2.08
10 YR	115.80	59.70	99.64	420.13	1.916	29.89
100 YR	-	103.64	308.64	420.79	2.296	89.99

NOTES:

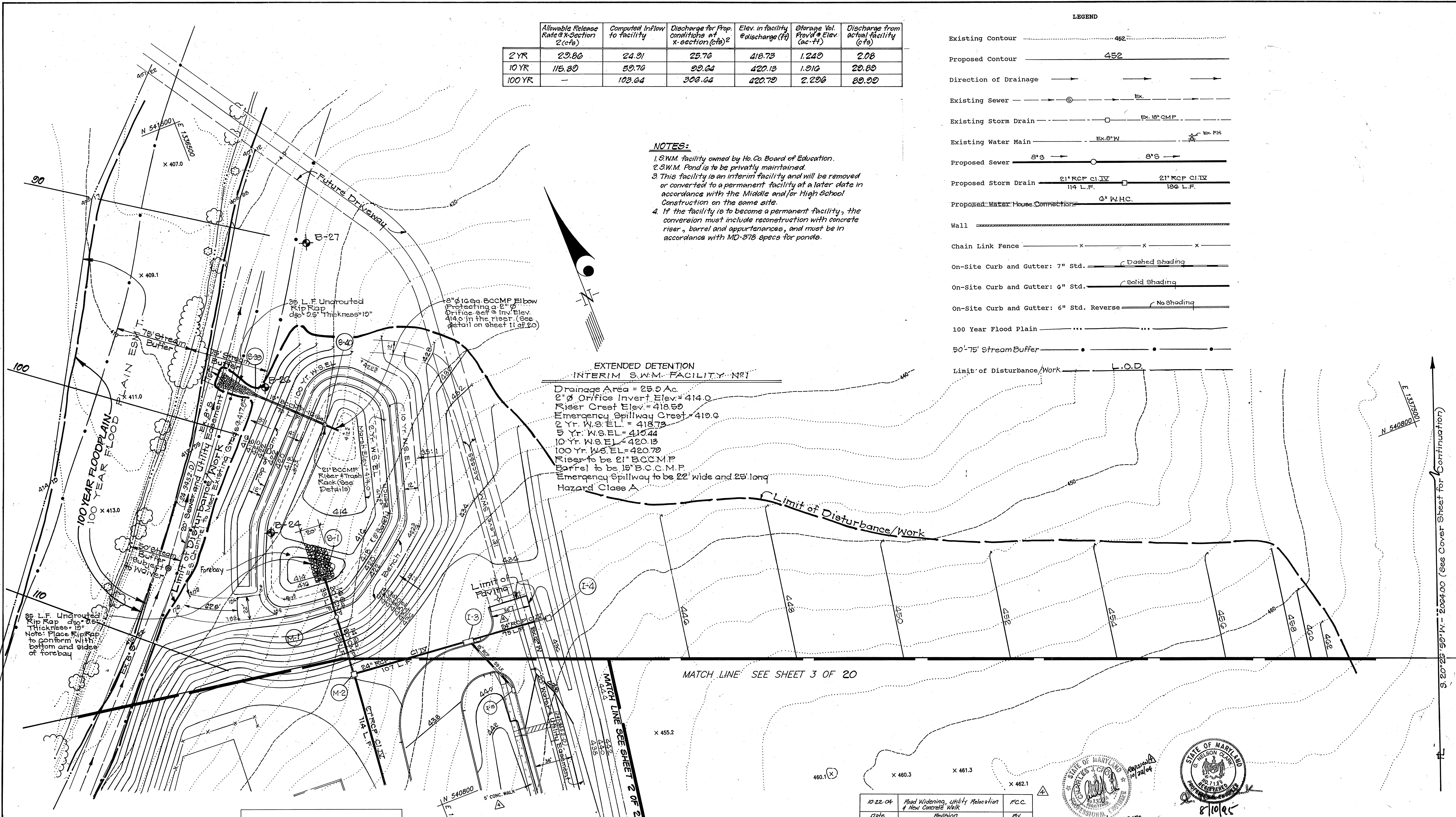
1. S.W.M. facility owned by Ho. Co. Board of Education.
2. S.W.M. Pond is to be privately maintained.
3. This facility is an interim facility and will be removed or converted to a permanent facility at a later date in accordance with the Middle and/or High School Construction on the same site.
4. If the facility is to become a permanent facility, the conversion must include reconstruction with concrete riser, barrel and appurtenances, and must be in accordance with MD-27B specs for ponds.

EXTENDED DETENTION INTERIM S.W.M. FACILITY

Drainage Area = 25.0 Ac.
 2' Ø Orifice Invert. Elev. = 414.0
 Riser Crest Elev. = 418.50
 Emergency Spillway Crest = 419.0
 2 Yr. W.S. EL. = 418.73
 5 Yr. W.S. EL. = 419.44
 10 Yr. W.S. EL. = 420.13
 100 Yr. W.S. EL. = 420.79
 Riser to be 21" B.C.C.M.P.
 Barrel to be 15" B.C.C.M.P.
 Emergency Spillway to be 22' wide and 25' long
 Hazard Class A

LEGEND

- Existing Contour 452
- Proposed Contour 452
- Direction of Drainage → → →
- Existing Sewer ———— Ex. 8" W
- Existing Storm Drain ———— Ex. 18" C.M.P.
- Existing Water Main ———— Ex. 8" W
- Proposed Sewer ———— 8" S
- Proposed Storm Drain ———— 21" RCP CI-IV 114 L.F. / 21" RCP CI-IV 186 L.F.
- Proposed Water House Connection ———— 6" W.H.C.
- Wall ————
- Chain Link Fence ————
- On-Site Curb and Gutter: 7" Std. ———— Dashed Shading
- On-Site Curb and Gutter: 6" Std. ———— Solid Shading
- On-Site Curb and Gutter: 6" Std. Reverse ———— No Shading
- 100 Year Flood Plain ————
- 50'-75' Stream Buffer ————
- Limit of Disturbance/Work ———— L.O.D.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research
 Director

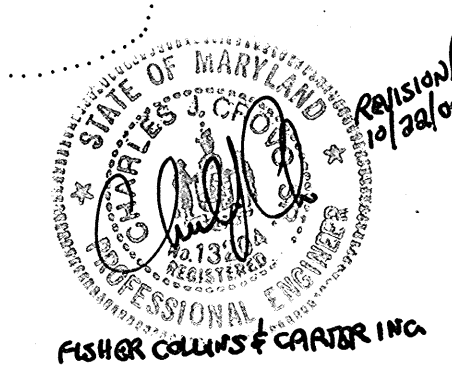
These plans have been reviewed for the Howard Soil Conservation District and meet technical requirements for small-pond construction, soil erosion and sediment control.
 Patricia Engle 8/21/95
 Natural Resources Conservation Service

These plans for small-pond construction meet the requirements of the Howard Soil Conservation District.
 Approved: Howard S.D.
 Date: 8/21/95

By the Engineer:
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 Signature of Engineer: [Signature]
 Date: 8/10/95

By the Developer:
 "I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 Signature of Developer: [Signature]
 Date: 8/10/95

10.22.04	Road Widening, Utility Relocation & New Concrete Walk	FCC
Date	Revision	By



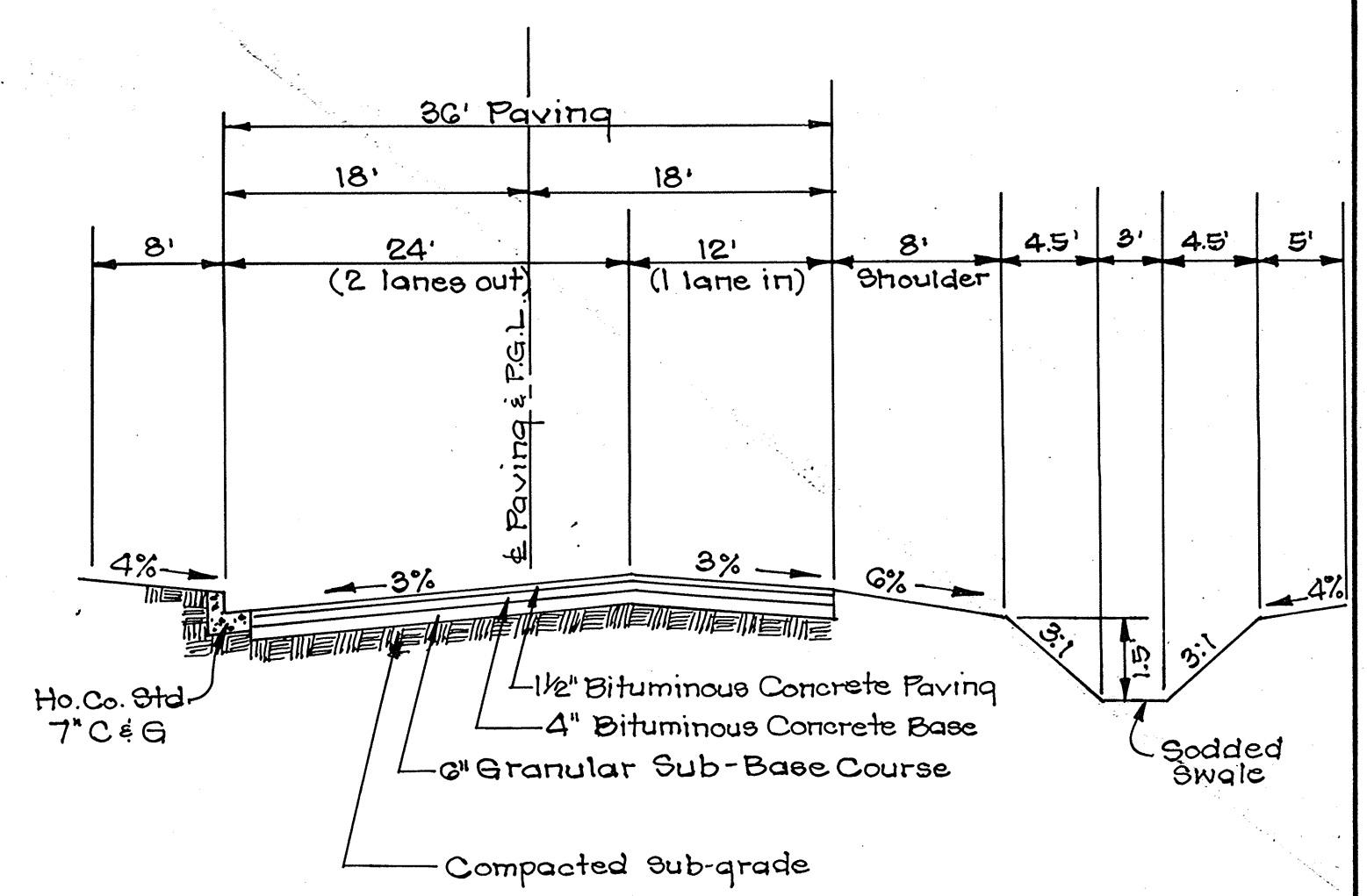
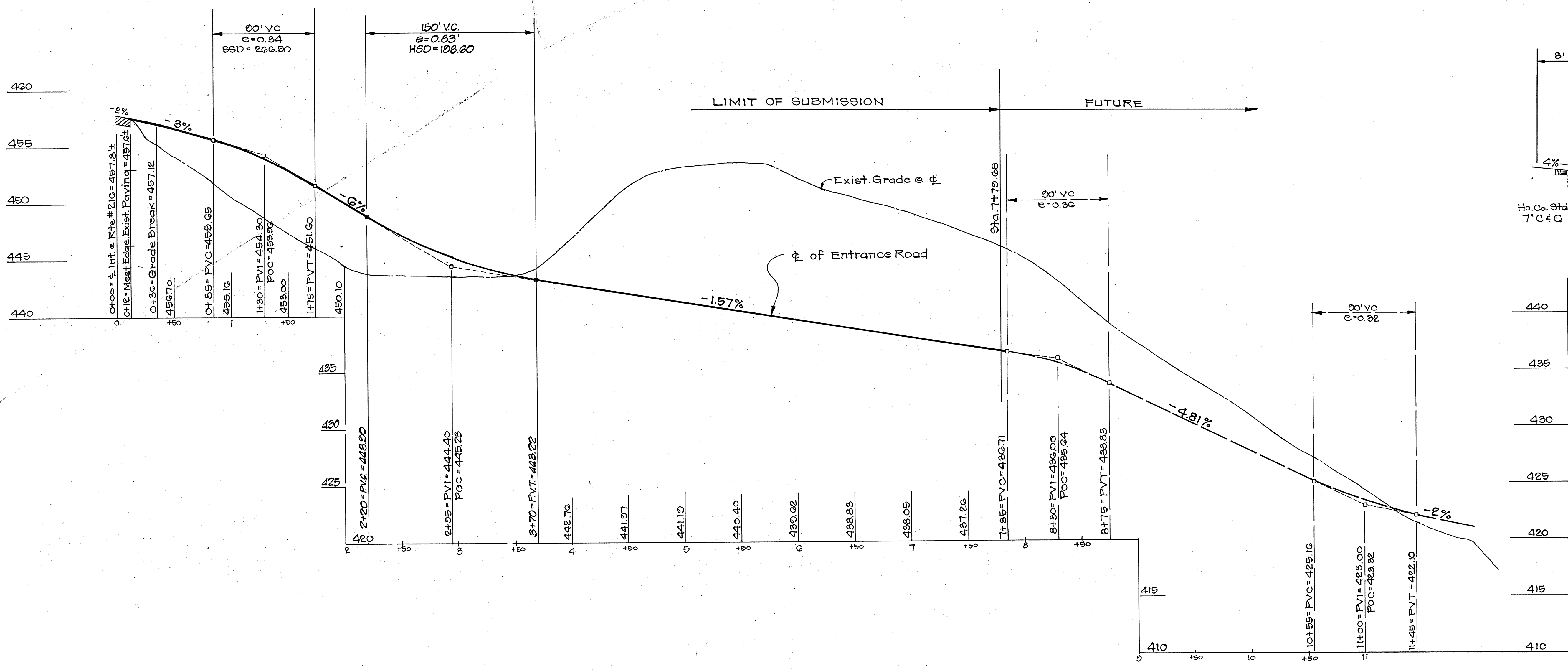
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.

SITE DEVELOPMENT PLAN
WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 45, PARCEL 115
 FIFTH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

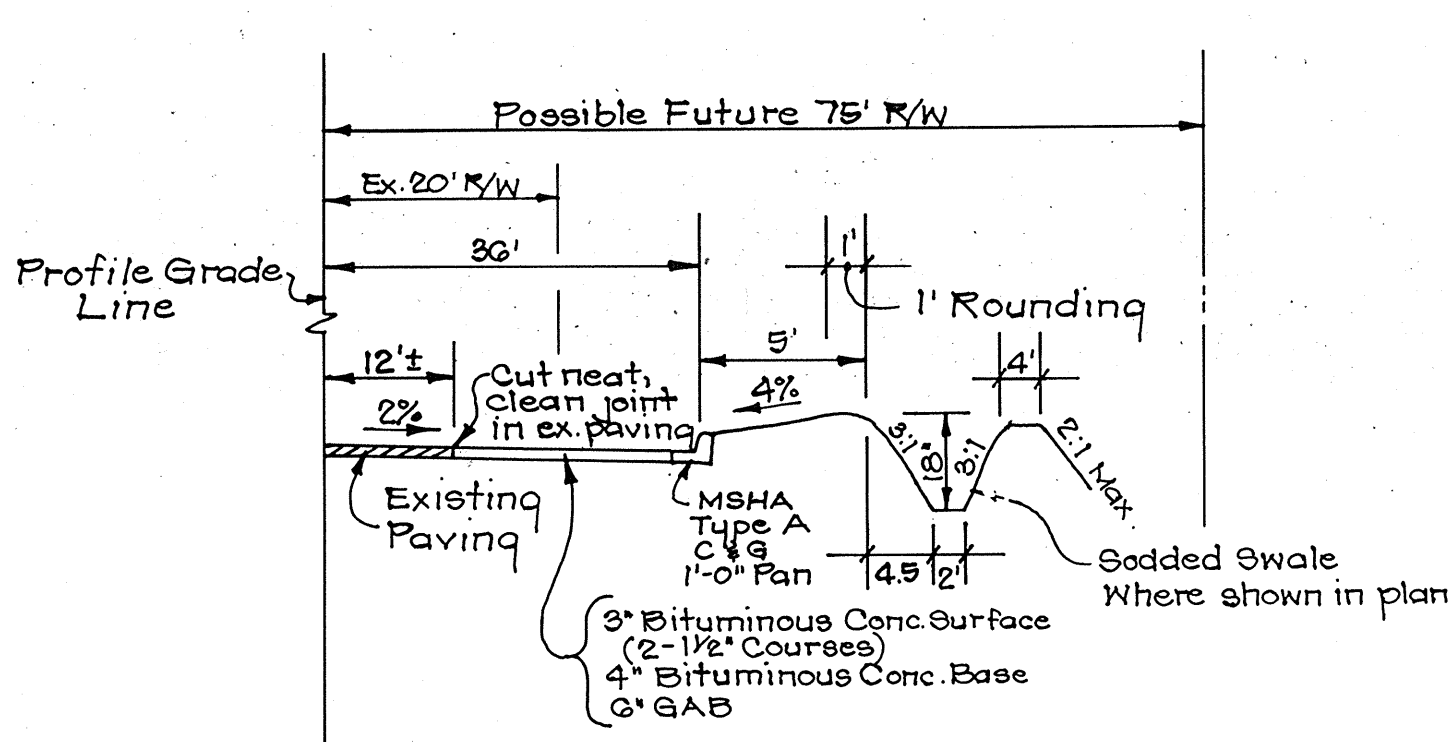
FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042

DESIGNED: [Signature]
 DRAWN: ZH
 CHECKED: [Signature]
 DATE: 8-10-95

SCALE: 1"=40'
 DRAWING: 4 of 20
 JOB NO.: 92-228
 FILE NO.: 92-228X



TYPICAL SECTION
STA. 0+00 TO STA. 7+70.68
NO SCALE

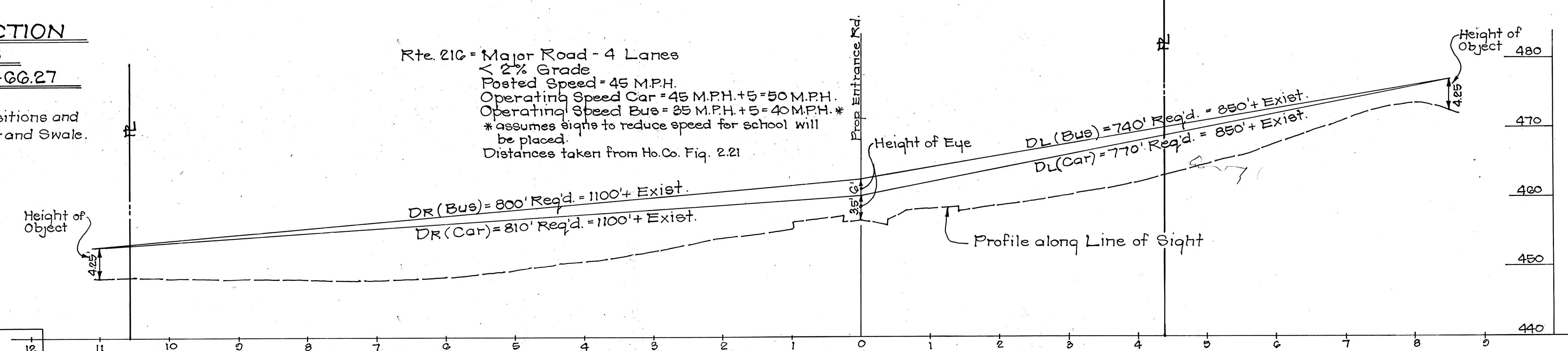


TYPICAL HALF SECTION
MD. ROUTE # 216
STA. 11+00.27 to STA. 13+00.27
NO SCALE

ENTRANCE ROAD PROFILE

SCALE: HOR. 1" = 50'
VERT. 1" = 5'
Design Speed = 25 MPH
Zoning: R-20

ENTRANCE DRIVEWAY SECTION



SITE DISTANCE ANALYSIS
MD. ROUTE #216 AND PROPOSED ENTRANCE ROAD

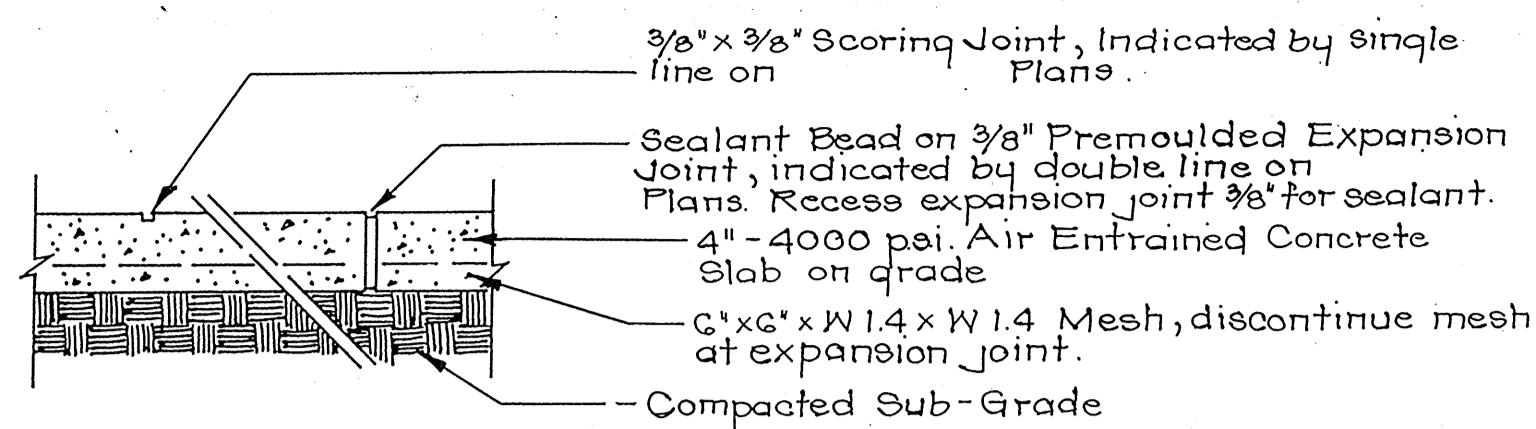
SCALE: HOR. 1" = 100'
VERT. 1" = 10'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division
Date: 8/25/95
Chief, Division of Land Development and Research
Date: 8/25/95
Director

10-22-04	Road Widening, Utility Relocation & New Conc. Walk	R.C.C.
Date	Revision	By

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.

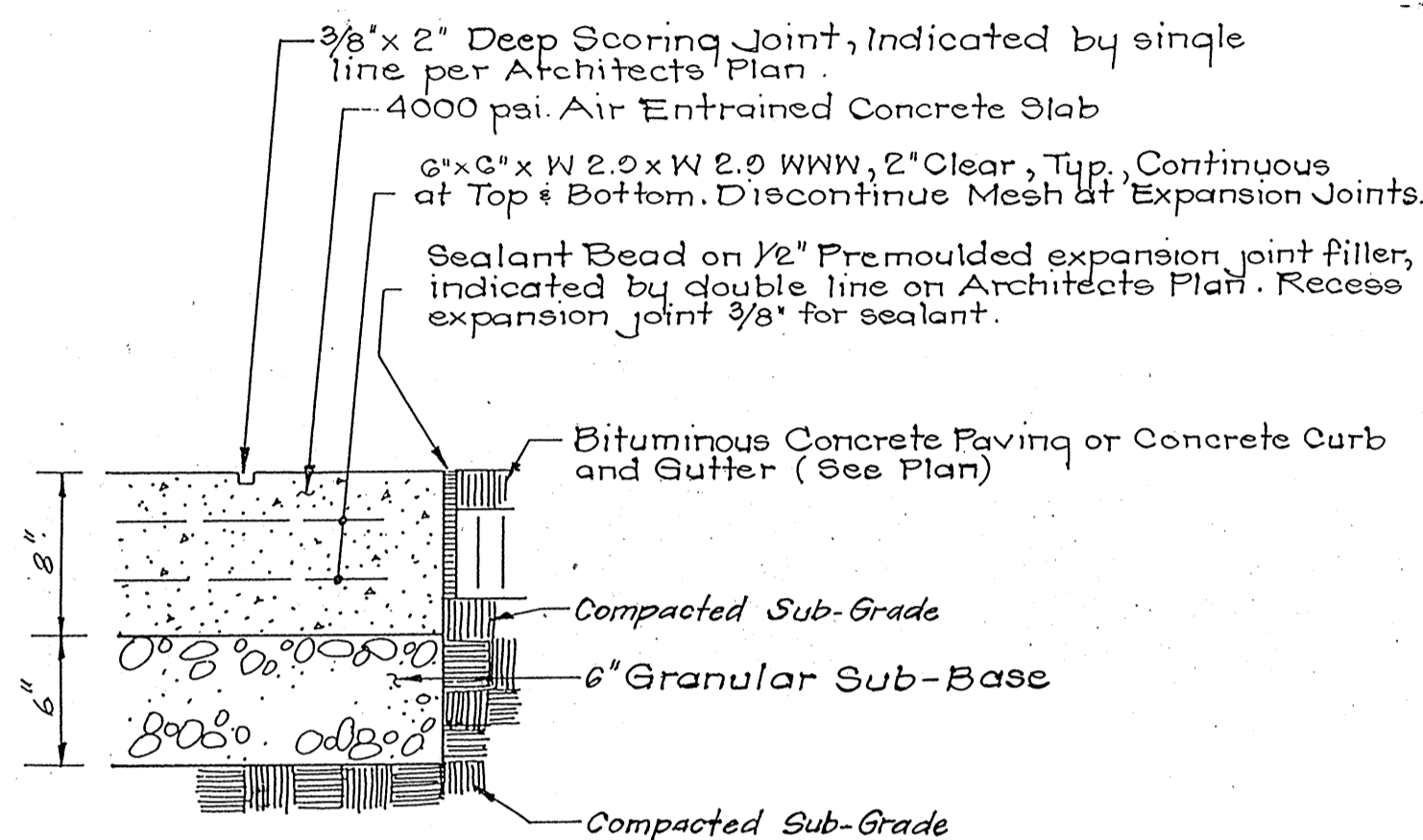
DESIGNED J.L.S.	ENTRANCE ROAD PROFILE, PAVING SECTIONS AND SIGHT DISTANCE ANALYSIS	SCALE As Shown
DRAWN J.L.S.	WESTERN ELEMENTARY SCHOOL NO. 2	DRAWING 5 of 20
CHECKED J.L.S.	TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 02-228
DATE 8-10-05	FOR: HOWARD COUNTY BOARD OF EDUCATION 10010 ROUTE 108 ELLICOTT CITY, MARYLAND 21042	FILE NO. 02-228 X



CONCRETE WALKS

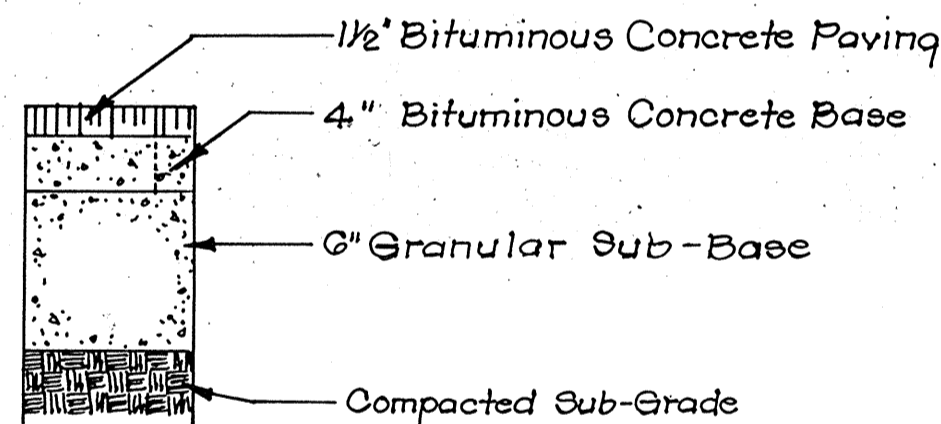
(No Scale)

NOTE: Follow paving plans and floor plans for locations of expansion joints and scoring joints. Where not indicated, install expansion joints at 20' o.c. and install scoring joints at 4' o.c. Slope across sidewalk shall be minimum 1/8"/ft.



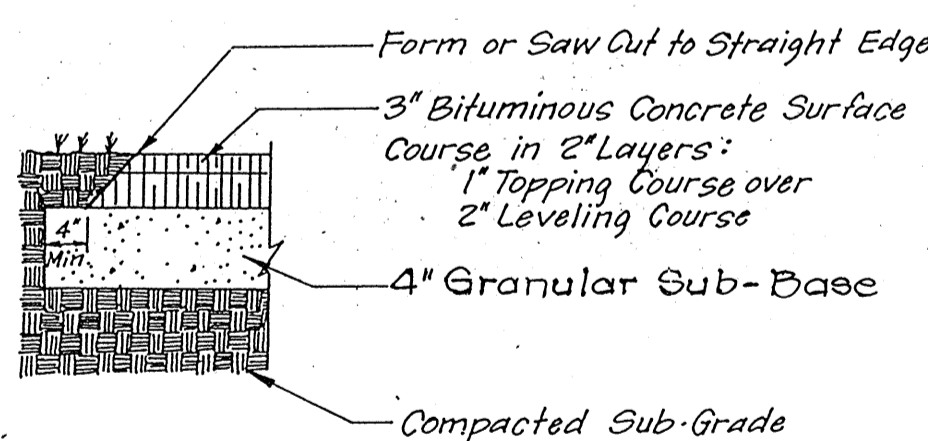
HEAVY DUTY CONCRETE PAVING

SERVICE YARD
(No Scale)



BITUMINOUS CONCRETE PAVING (P-3)

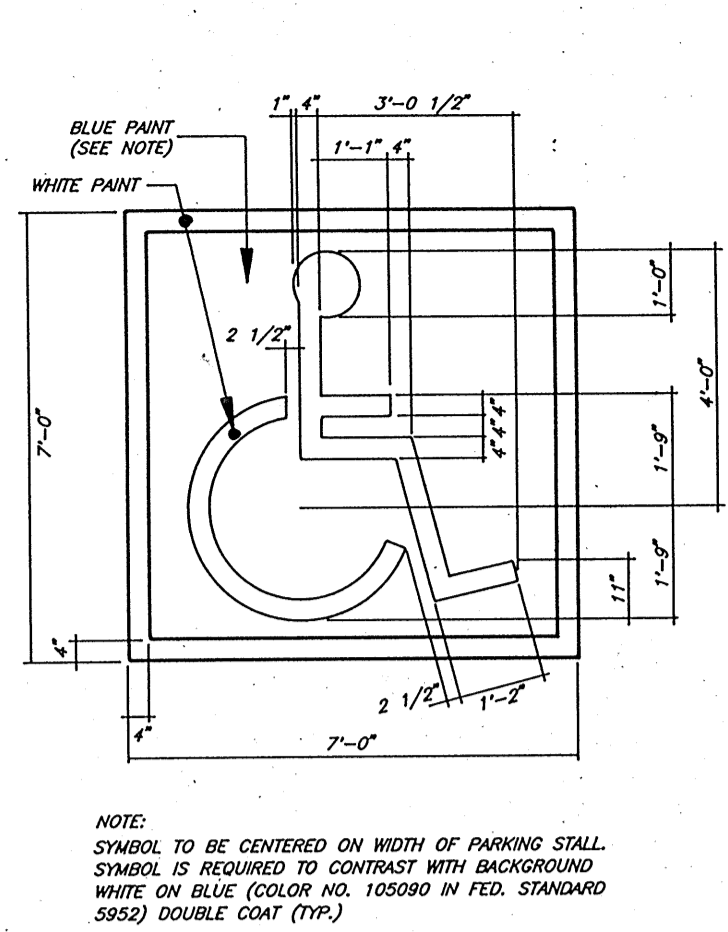
NO SCALE



BITUMINOUS CONCRETE PAVING (P-1)

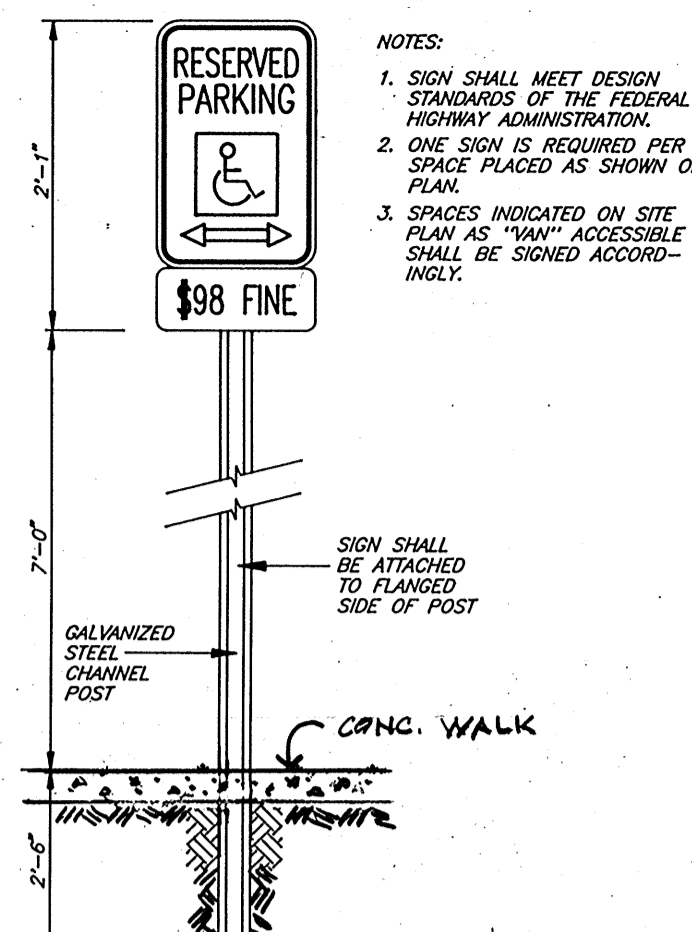
MULTI PURPOSE PLAY COURT

(No Scale)



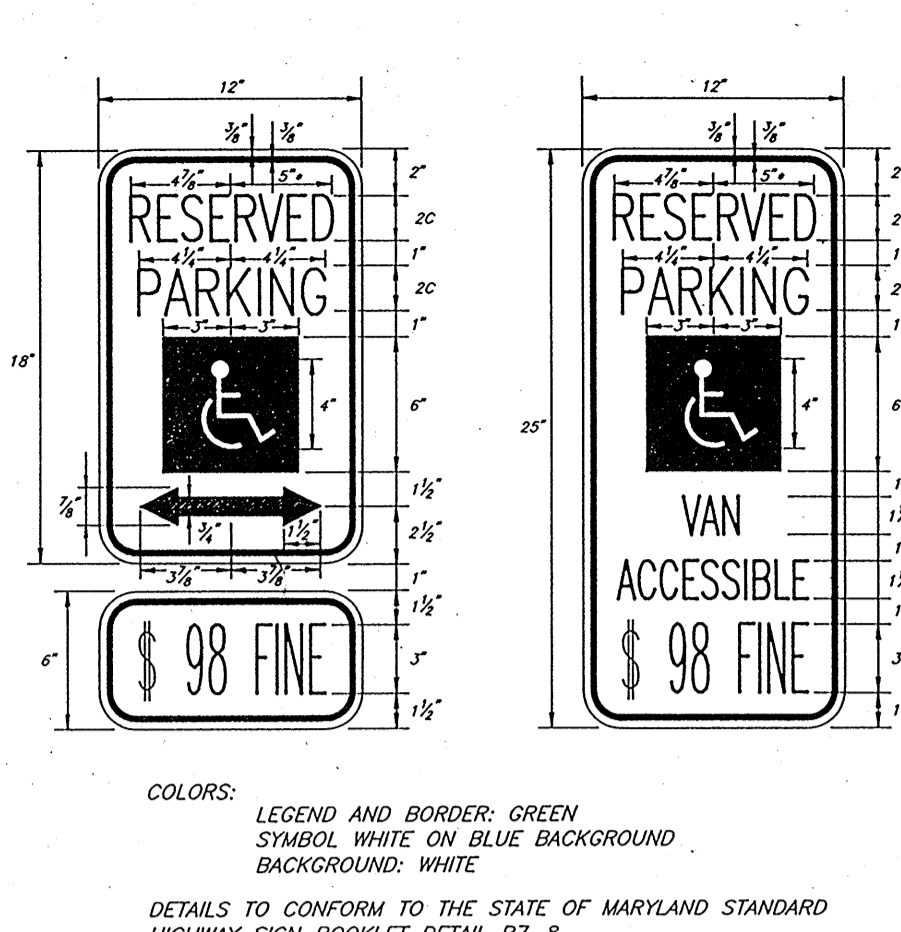
PAINTED SYMBOL

NO SCALE



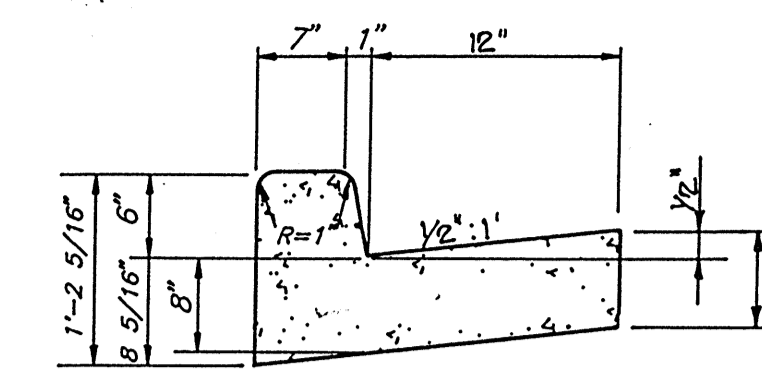
HANDICAP PARKING SIGN DETAIL

NO SCALE



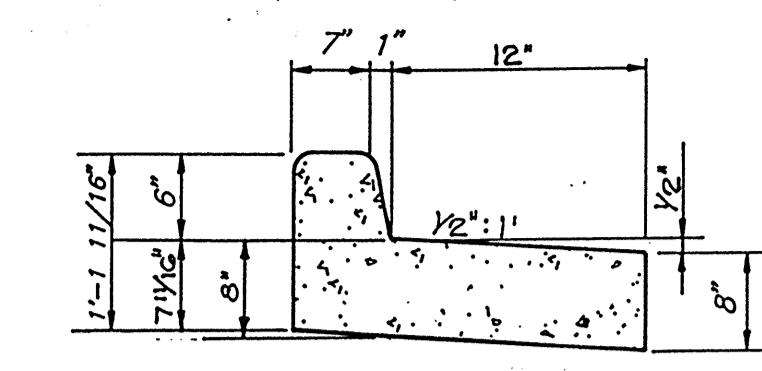
HANDICAP PARKING RESTRICTION SIGN DETAIL

NO SCALE



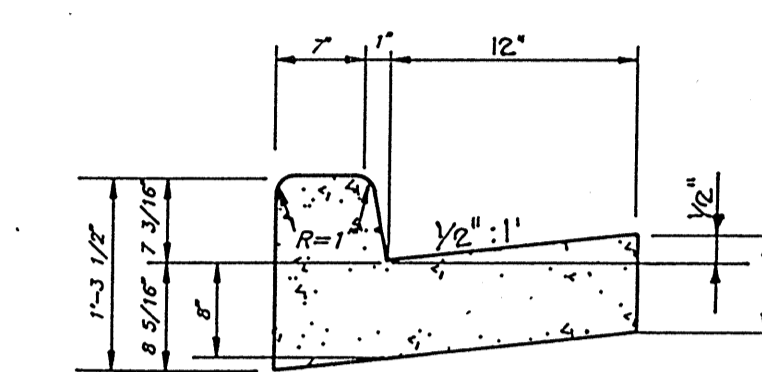
STANDARD 6" COMBINATION CURB AND GUTTER

NO SCALE



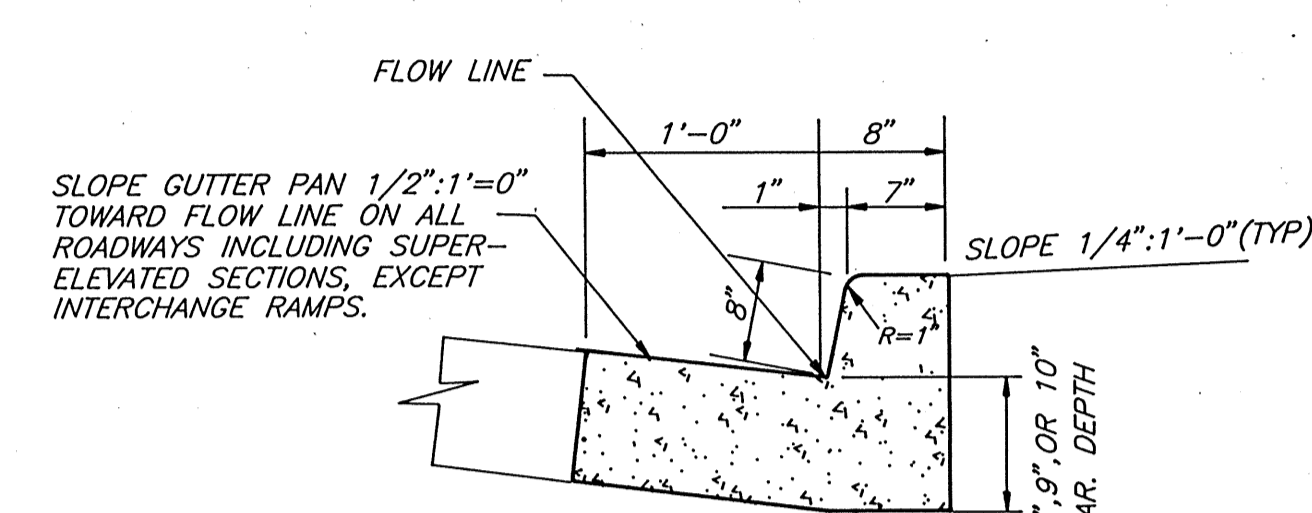
REVERSE 6" COMBINATION CURB AND GUTTER

NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER

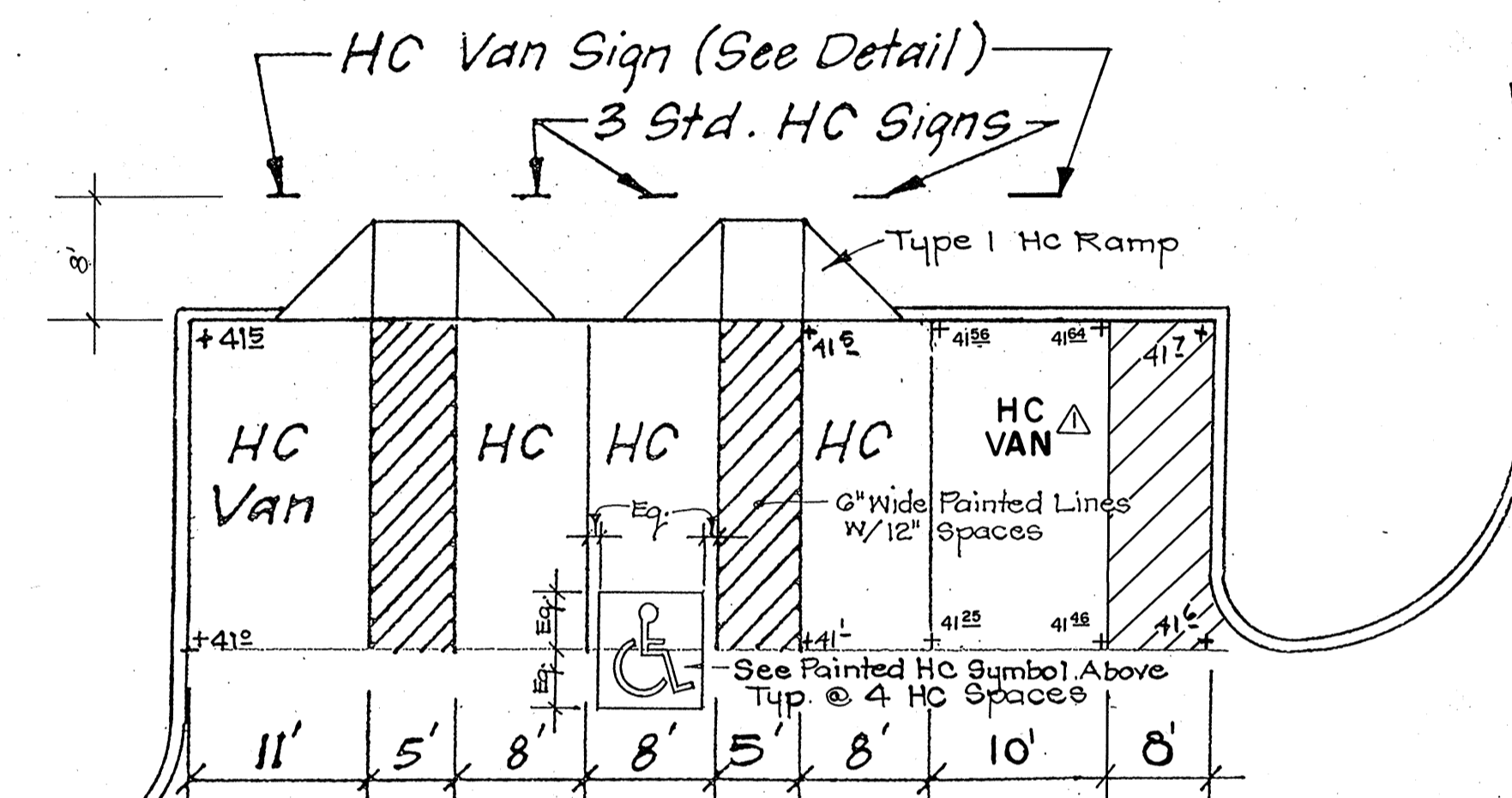
NO SCALE



S.H.A. TYPE A COMBINATION CURB AND GUTTER

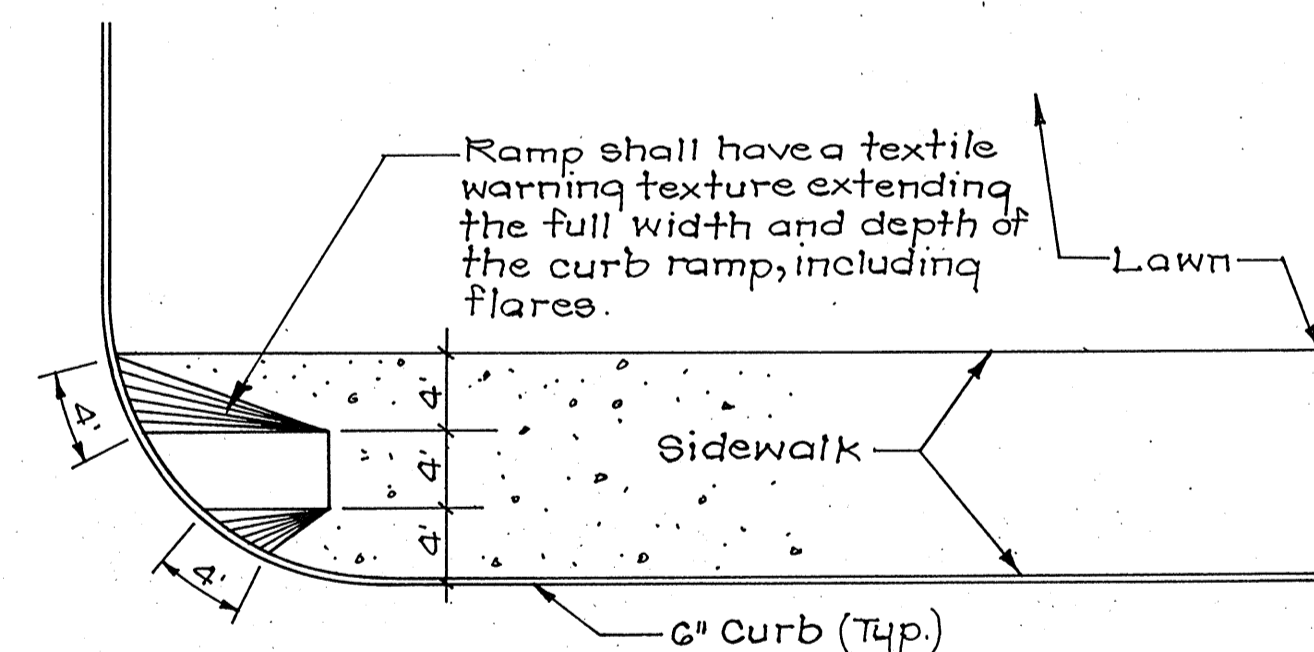
NO SCALE

NOTE: 6" & 7" Curbs to be of 4000 PSI Air Entrained Concrete.
50' Max. between expansion joints
10' Max. between control joints
See Site Plan for extent of standard/reverse curb and gutter
Legend (sheet 4 of 20)



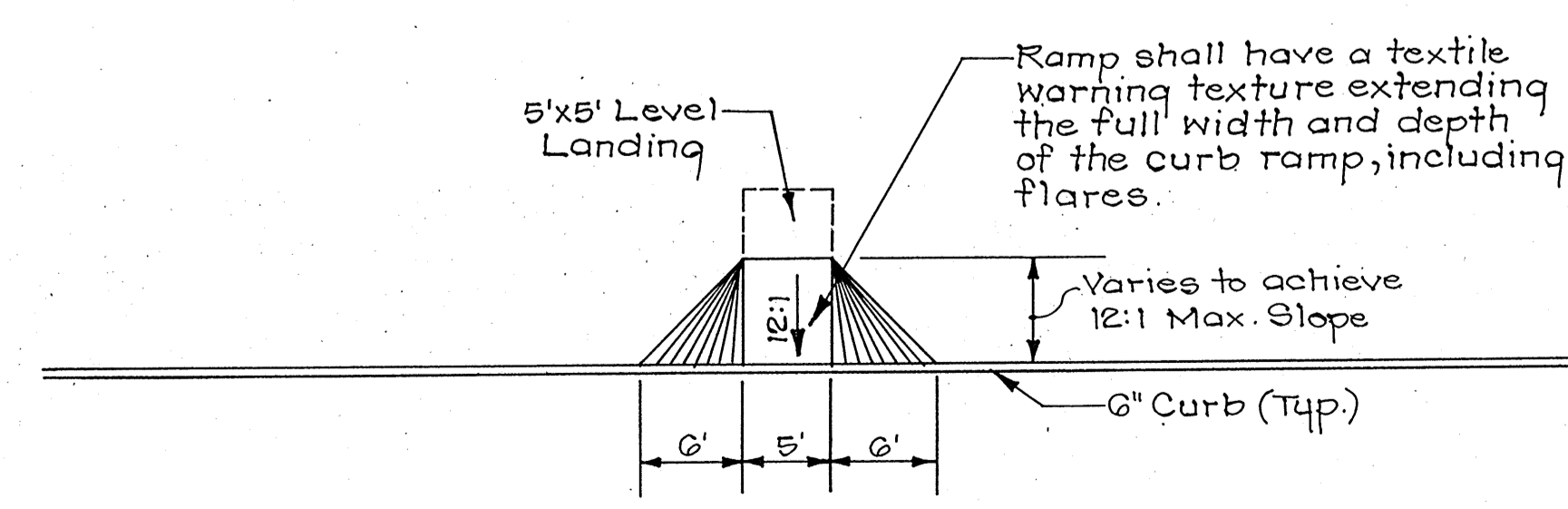
HANDICAP PARKING DETAIL

SCALE: 1" = 10'



TYPE 2 SIDEWALK RAMP AT SERVICE DRIVE

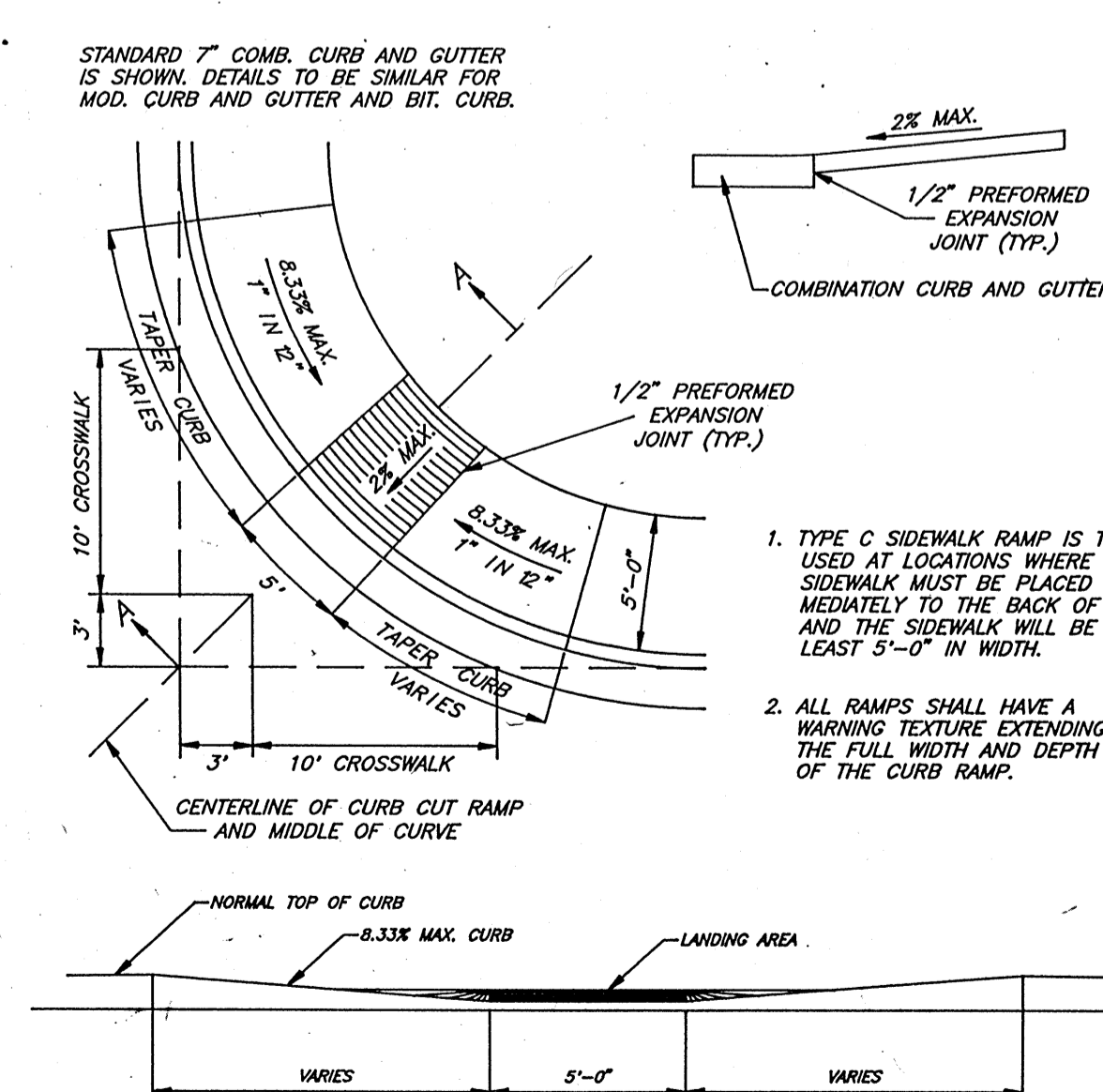
SCALE: 1" = 10'



TYPE 1 TYPICAL HANDICAP CURB RAMP

SCALE: 1" = 10'

NOTE: All Handicap Ramps shall conform to current ADAAG Criteria



TYPE C SIDEWALK RAMP (HO. CO. STD. TYPE R 4.03)

NO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division: *[Signature]* 8/21/95
 Chief, Division of Land Development and Research: *[Signature]* 8/25/95
 Director: *[Signature]* 8/25/95

STATE OF MARYLAND PROFESSIONAL ENGINEER
 FISHBURN COLLINS & BING CARPENTER, INC.
 8/18/95

JUNE 18, 2002		BUILDING ADDITION AND PARKING LOT EXPANSION	
DATE		REVISION	
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.			
DESIGNED	SITE DETAILS		SCALE
DRAWN	WESTERN ELEMENTARY SCHOOL #2		G of 20
CHECKED	TAX MAP 41 AND 46, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND		JOB NO. 02-228
DATE	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042		FILE NO. 02-228X



SOILS LEGEND

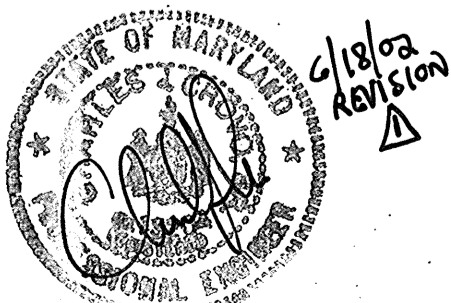
- B Soils
- C Soils
- D Soils

LAND USE LEGEND

- 13% Imp.
- 20% Imp. (S.F. 1 acre lots)
- 55% Imp.
- Ex. Farm (5% Imp.)
- Meadow
- 40% Imp.
- 16% Imp.
- School 60% Imp.
- Open Space Lawn Good Cond.
- 35% Imp.

NOTE: For proposed 2' contours see Sheets 14, 15 and 16.

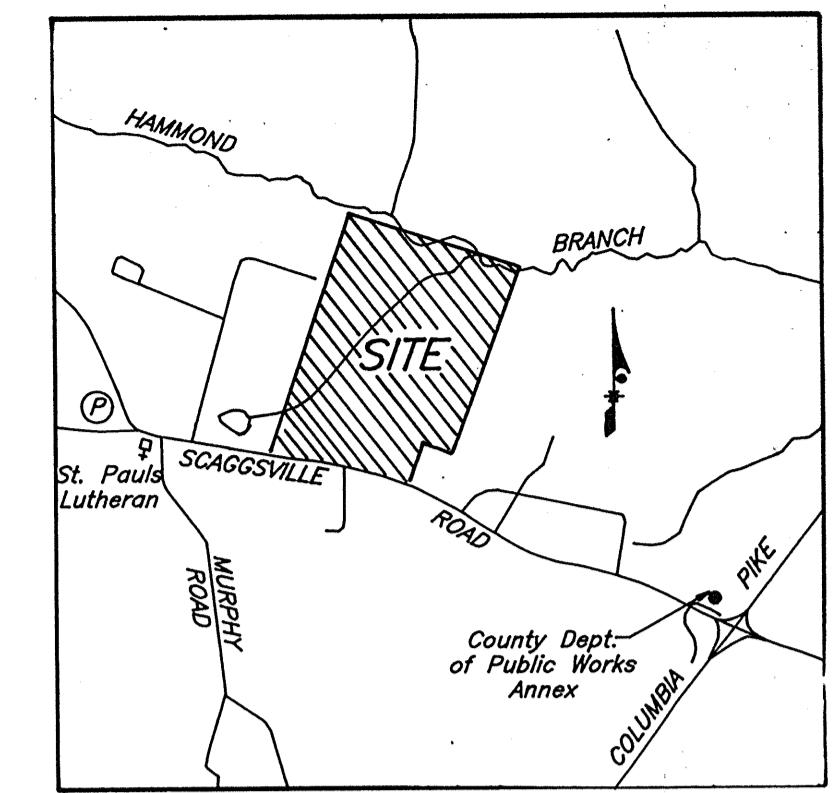
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chick Damm 8/1/95
 Chief, Development Engineering Division Date
Gina Summery 8/25/95
 Chief, Division of Land Development and Research Date
Joseph K... .. 8/25/95
 Director Date



FISHER COLLINS ARCHITECT, INC.
 June 18, 2002
 Building Addition and Parking Lot Expansion
 Date Revision



CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.		
DESIGNED Z.A.L.	DRAINAGE AREA MAP PROPOSED CONDITIONS WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCELS 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=200'
DRAWN Z.A.H.		DRAWING 13 of 20
CHECKED		JOB NO. 92-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELlicott CITY MARYLAND 21042	FILE NO. 92-228-D



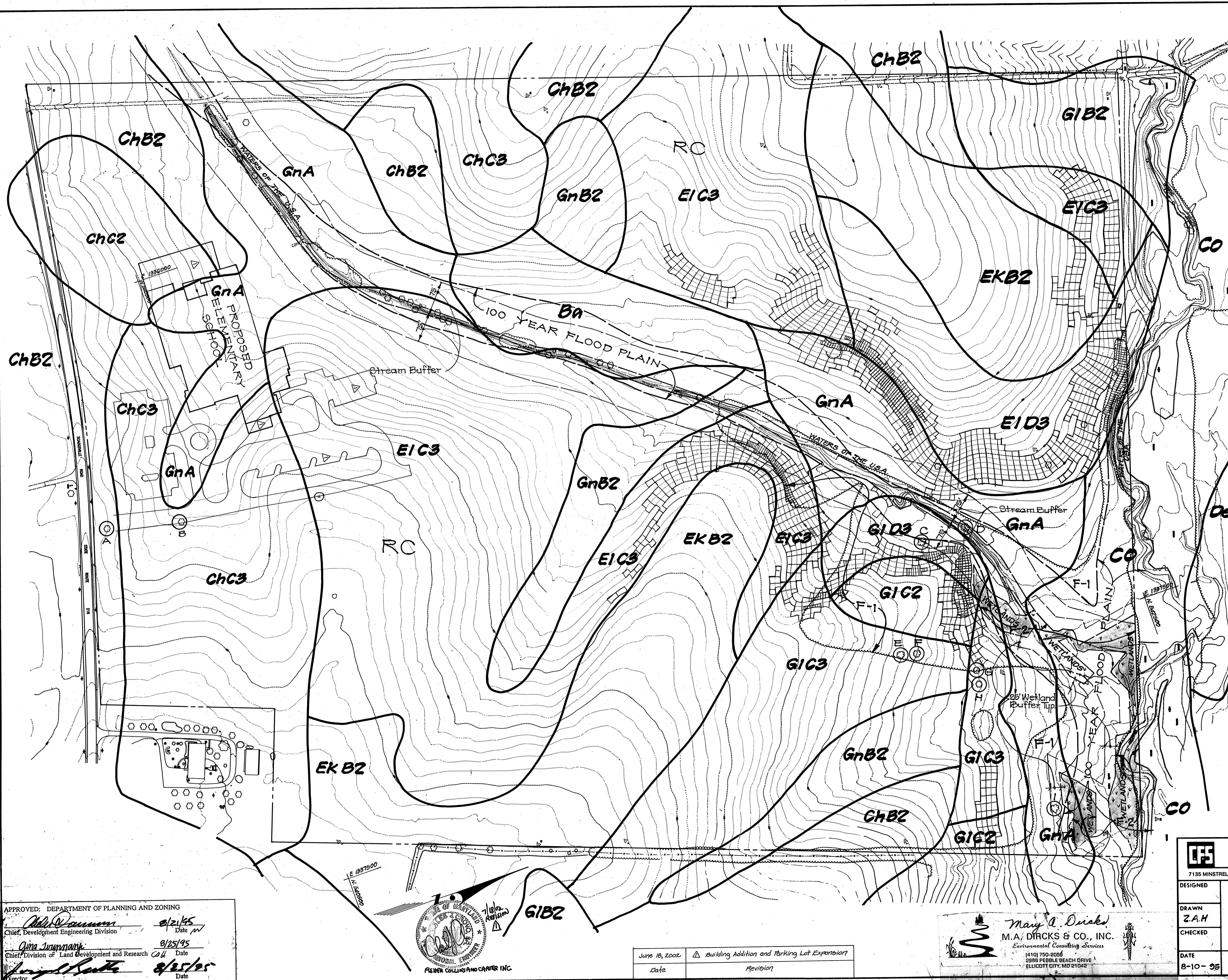
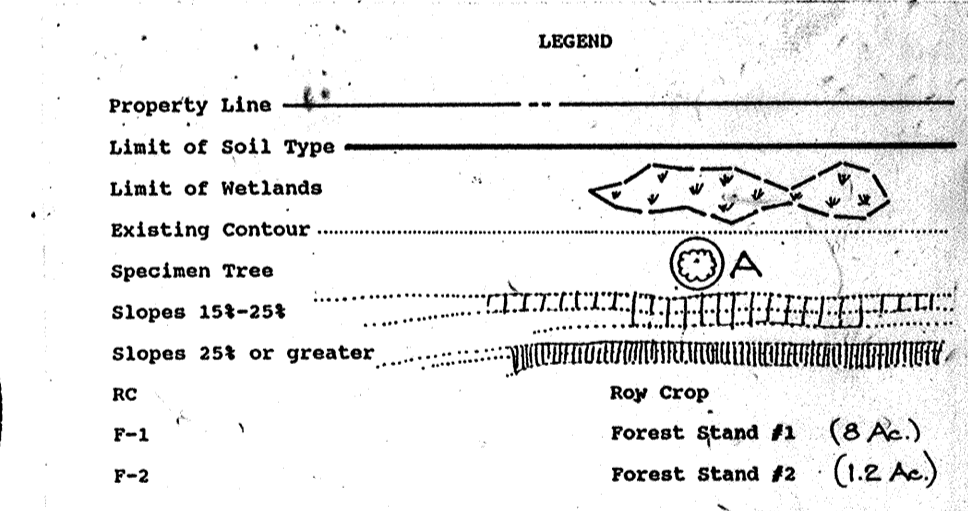
VICINITY MAP
SCALE 1"=2000'

- GENERAL NOTES
- Property is zoned RR-MXD-3
 - Total area of property = 101.2 Ac.
Area within 100 Year Flood Plain = 8.96 Ac.
Net Tract Area (101.2 Ac. - 8.96 Ac.) = 92.24 Ac.
 - Limit of Submission/Project Area =
 - Property falls on soils map #28 and #32.
 - Specimen Trees

Tax	Species	Size (DBH")	Condition
A	Liriodendron tulipifera	36	Good
B	Prunus serotina	39	Fair
C	Liriodendron tulipifera	34	Good
D	Acer rubrum	34	Good
E	Quercus alba	37	Good
F	Quercus rubra	52	Good
G	Quercus alba	38	Fair
H	Liriodendron tulipifera	42	Good
I	Liriodendron tulipifera	30	Good

SOILS CHART

Key	Soil Type	Slope
Ba	Belle silt loam	3-8% mod.
Ch2	Chastar silt loam	8-15% mod.
Ch3	Chastar silt loam	8-15% sev.
Co	Codorus silt loam	3-8% mod.
Ek2	Elloak silt loam	8-15% sev.
EK3	Elloak silty clay loam	15-25% sev.
G12	Glenelig loam	3-8% mod.
G1C2	Glenelig loam	8-15% mod.
G1C3	Glenelig loam	8-15% sev.
G1D3	Glenelig loam	15-25% sev.
Gn2	Glenville silt loam	3-8% mod.



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research
 Director

8/21/95
 8/25/95
 8/25/95



Date	Revision
June 18, 2002	Building Addition and Parking Lot Expansion

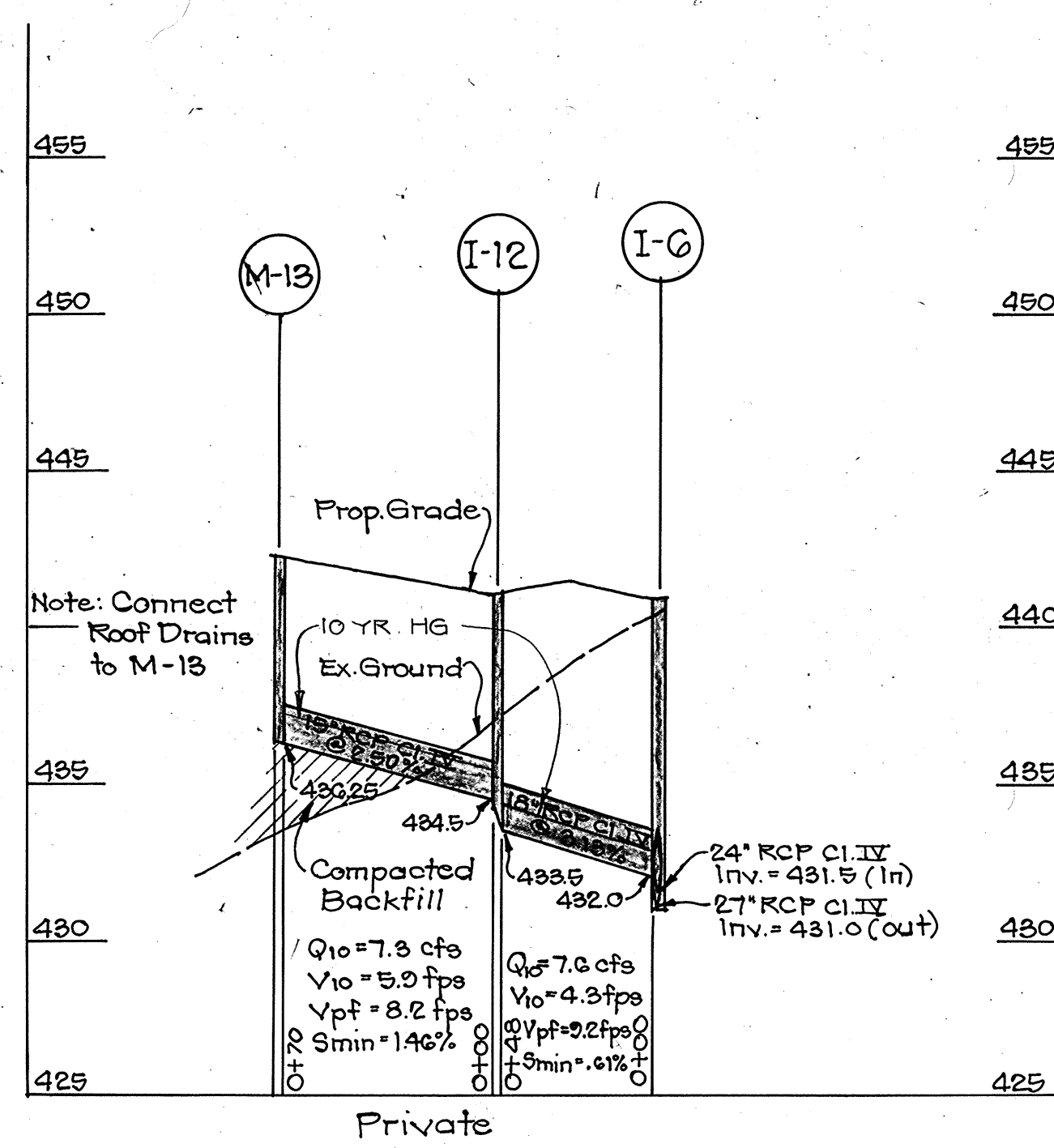
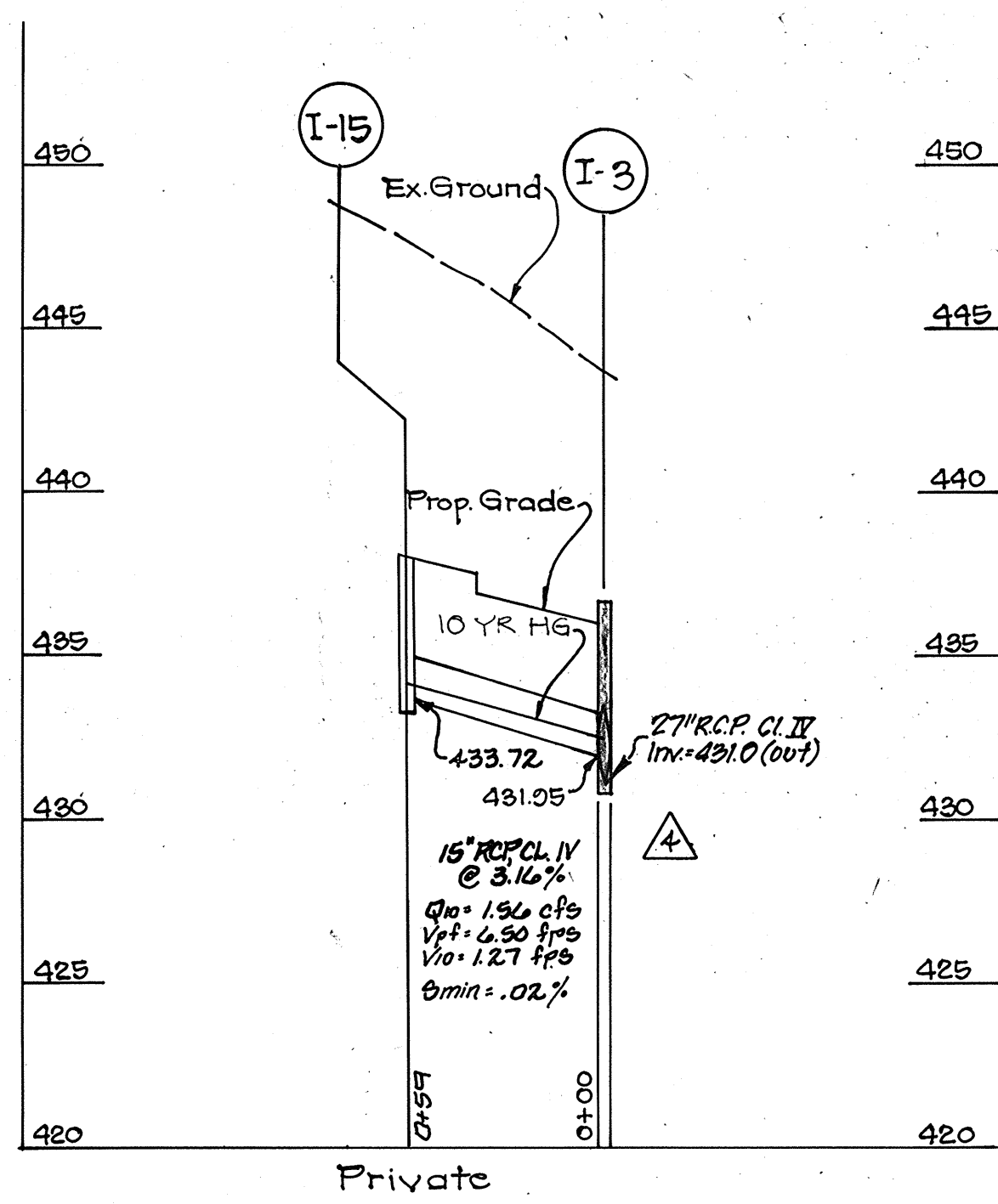
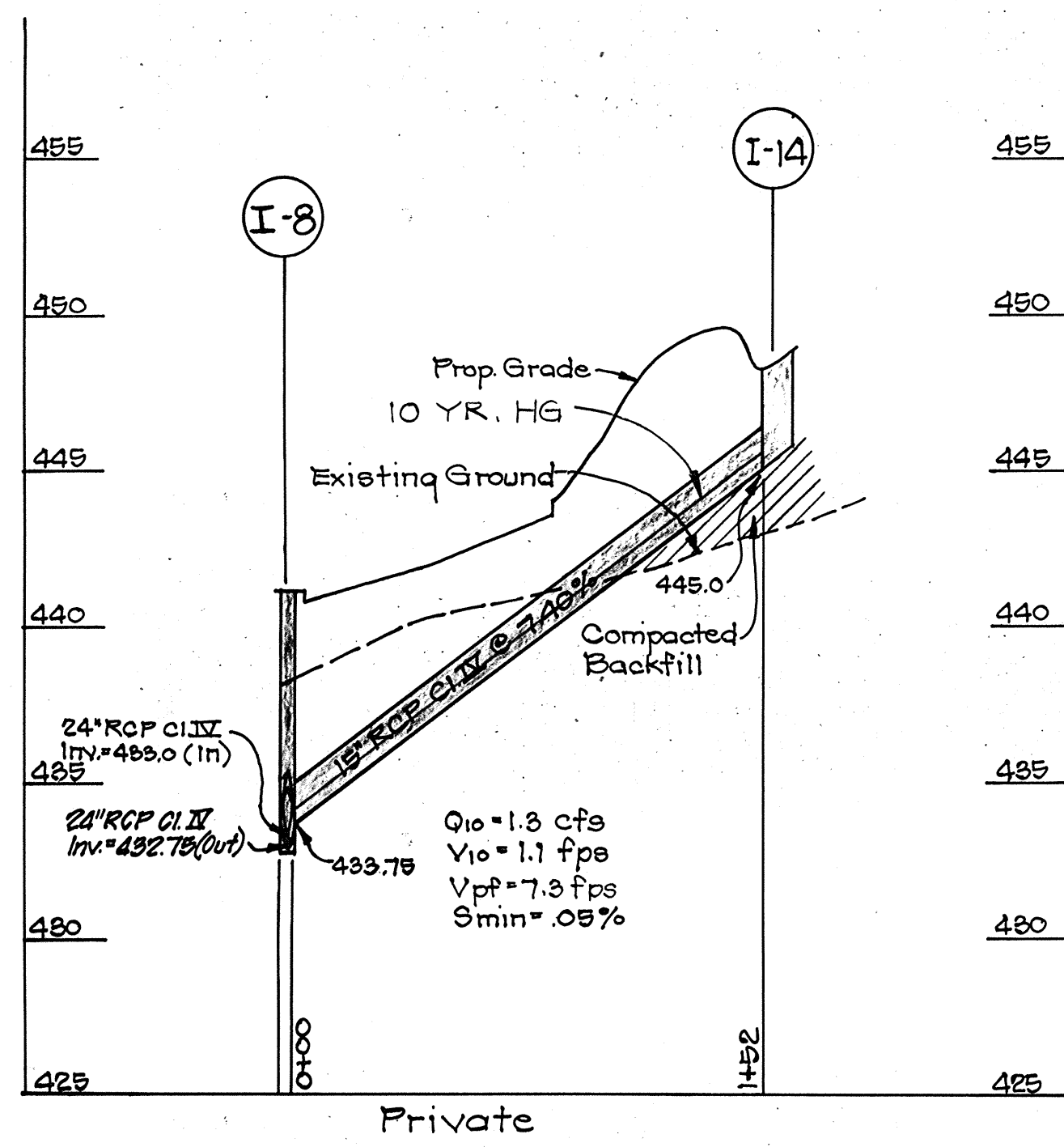
Mary A. Dircks
 M.A. DIRCKS & CO., INC.
 Environmental Consulting Services
 (410) 750-2098
 2385 PEBBLE BEACH DRIVE
 ELLICOTT CITY, MD 21042

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 821-8100 - WASH.

DESIGNED: **SOLTS, SLOPES AND FOREST STAND DELINEATION PLAN**
 DRAWN: **Z.A.H.**
 CHECKED: **Z.A.H.**
 DATE: **8-10-95**

SCALE: **1"=100'**
 DRAWING: **18 of 20**
 JOB NO: **02228**
 FILE NO: **02228**

FOR: **HOWARD COUNTY BOARD OF EDUCATION**
 12010 ROUTE 102
 ELLICOTT CITY, MARYLAND 21042



No	TYPE	INVERT		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	UPPER	LOWER		
8-7	Metal End Section	414.0	413.93	416.5		Ho. Co. Std. SD 5.01 20' dia	See Plan
M-2	Standard Precast Manhole	427.0	427.02	427.5		Ho. Co. Std. G 5.12 4' dia	See Plan
I-3	A-10 Inlet	431.5	430.80	436.0		Ho. Co. Std. SD 4.02 W=2'-0"	See Plan
I-4	K-Inlet	-	432.9	436.12		Ho. Co. Std. SD 4.12 3' dia	4' Str. Sta. 7+53 20' Rt.
I-15	A-5 Inlet	-	433.72	437.98	438.50	Ho. Co. Std. SD 4.01 W=2'-0"	4' Str. Sta. 6+83 24' Lt.
I-5	A-10 Inlet	420.00	428.05	440.02	439.70	Ho. Co. Std. SD 4.02 W=2'-0"	See Plan
I-6	A-10 Inlet	431.5	431.0	440.7		Ho. Co. Std. SD 4.02 W=4'-0"	See Plan
I-8	A-10 Inlet	433.75	432.75	441.1		Ho. Co. Std. SD 4.02 W=2'-0"	See Plan
I-9	A-10 Inlet	434.0	434.24	440.5		Ho. Co. Std. SD 4.02 W=2'-0"	See Plan
I-10	Single 8" Inlet w/ Reticular Grate	435.5	435.25	439.2		Ho. Co. Std. SD 4.22 2'-7"x2'-7"	See Plan
M-11	Shallow Precast Manhole #	-	433.25	442.35		Ho. Co. Std. G 5.12 48" dia	See Plan
I-12	Single 8" Inlet w/ Reticular Grate	434.50	433.50	441.0		Ho. Co. Std. SD 4.22 2'-7"x2'-7"	See Plan
M-18	Shallow Precast Manhole #	-	432.25	442.25		Ho. Co. Std. G 5.12 48" dia	See Plan
I-14	A-10 Inlet	-	443.0	448.62	447.50	Ho. Co. Std. SD 4.02 W=2'-0"	4' Str. Sta. 2+28.52 18' Lt.
M-1	Standard Precast MH	414.43	414.53	422.0		Ho. Co. Std. G 5.12 4' dia	See Plan
8-20	Metal End Section	412.0	411.90	412.0		Ho. Co. Std. SD 5.01 18' dia	See Plan
I-16	A-5 Inlet	-	433.75	437.98	438.50	Ho. Co. Std. SD 4.01 W=2'-0"	See Plan

Provide opening for 15" connection @ Elev. 439.5 for Roof Drains on School side of Structure
 Δ Inverts to be fully developed

SIZE	TYPE	LENGTH
15"	RCP CI IV	279 L.F.
18"	RCP CI IV	125 L.F.
21"	RCP CI IV	112 L.F.
24"	RCP CI IV	452 L.F.
27"	RCP CI IV	320 L.F.
30"	CMP 14 ga.	80 L.F.
15"	BCCMP 10 ga.	70 L.F.
15"	HDPE	26 L.F.

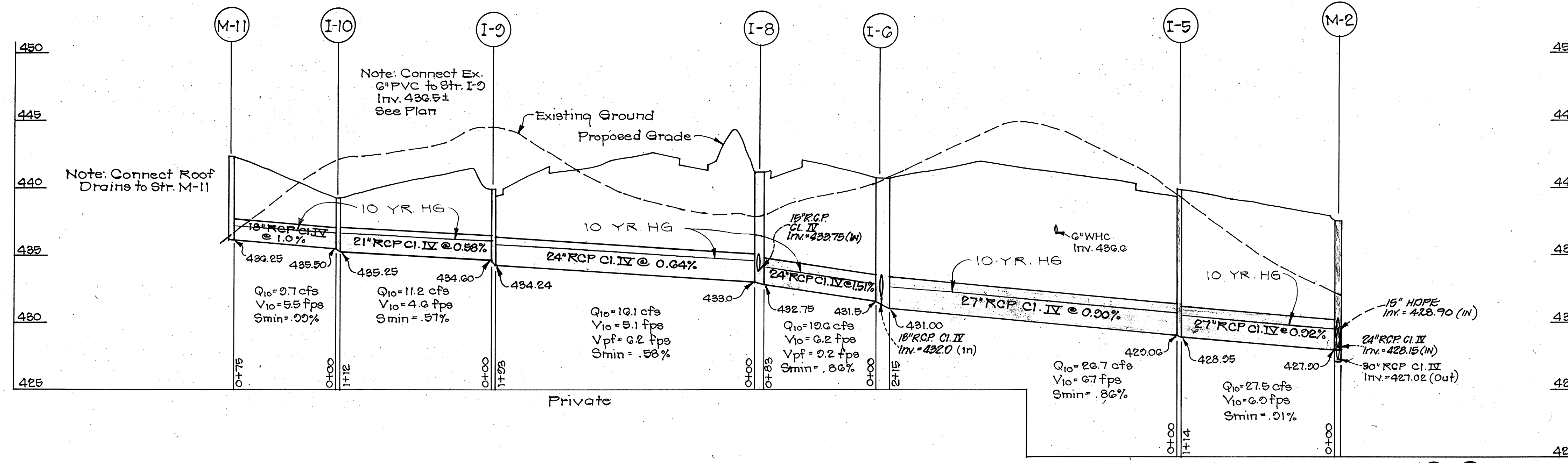
* 2 2/3" x 1/2" Corrugations

No	TYPE	INVERT		TOP ELEVATION		REMARKS	LOCATION
		IN	OUT	UPPER	LOWER		
8-16	Concrete End Section	426.5	426.34	426.0		SHA Std. MD-368.01 21" dia	See Plan
M-17	48" Dia. Precast Manhole	444.02	444.0	447.70		SHA Std. MD-384.01 48" dia	See Plan
8-27	Concrete End Section	450.50	450.50	452.00		SHA Std. MD-368.01 18" dia	See Plan
Δ I-28	Special Type K Inlet	452.03	450.81	451.50	456.50	SHA Std. MD-378.02 W=3'	See Plan
Δ I-29	Square Csg-10 Inlet	452.31	452.20	458.84	458.14	SHA Std. MD-374.51 W=4'	See Plan
□ M-20	Standard Shallow Manhole	445.54	445.50	457.70		SHA Std. MD-383.00 48" dia	See Plan

Δ Inverts to be fully developed
 □ provide granite block bottom

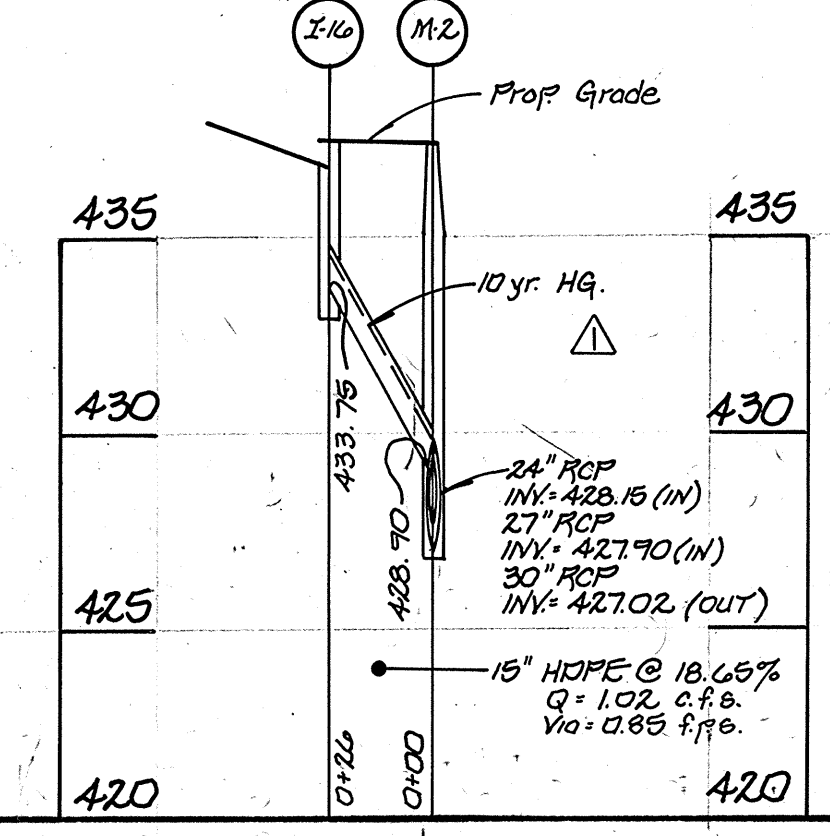
Structure	Pipe Dia.	L	W	D ₅₀	Thickness	MSHA Class
8-16	21"	20'	20'	0.5"	18"	I
8-27	18"	20'	20'	0.5"	18"	I
8-20	18"	20'	15'	0.5"	18"	I
8-1	20"	25'	20'	0.5"	18"	I

SIZE	TYPE	LENGTH
18"	RCP CI IV	50 L.F.
21"	RCP CI IV	370 L.F.

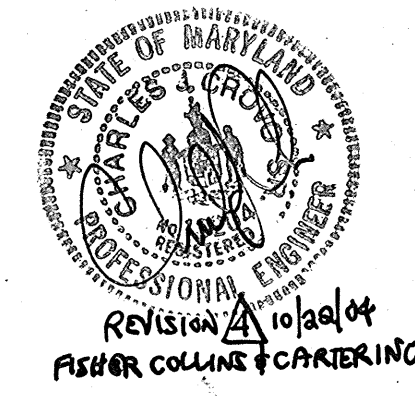


STORM DRAIN PROFILES

HOR. 1" = 50'
 SCALE: VERT. 1" = 5'



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research



Date	Revision
10-22-04	Road widening, util. Relocation of New Conc. Walk
June 18, 2002	Building Addition and Parking Lot Expansion

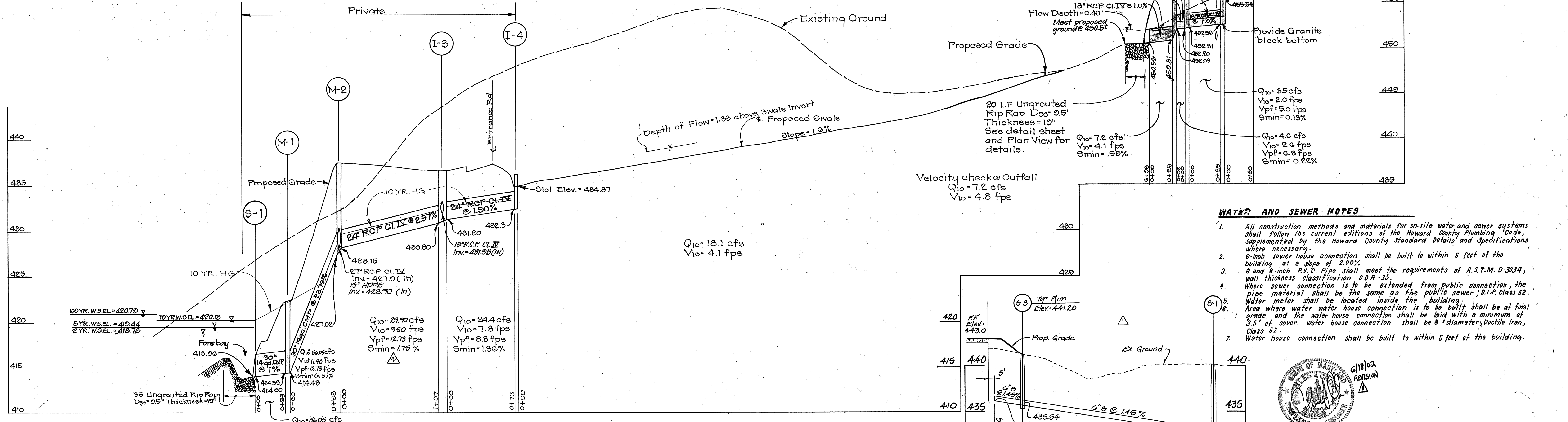
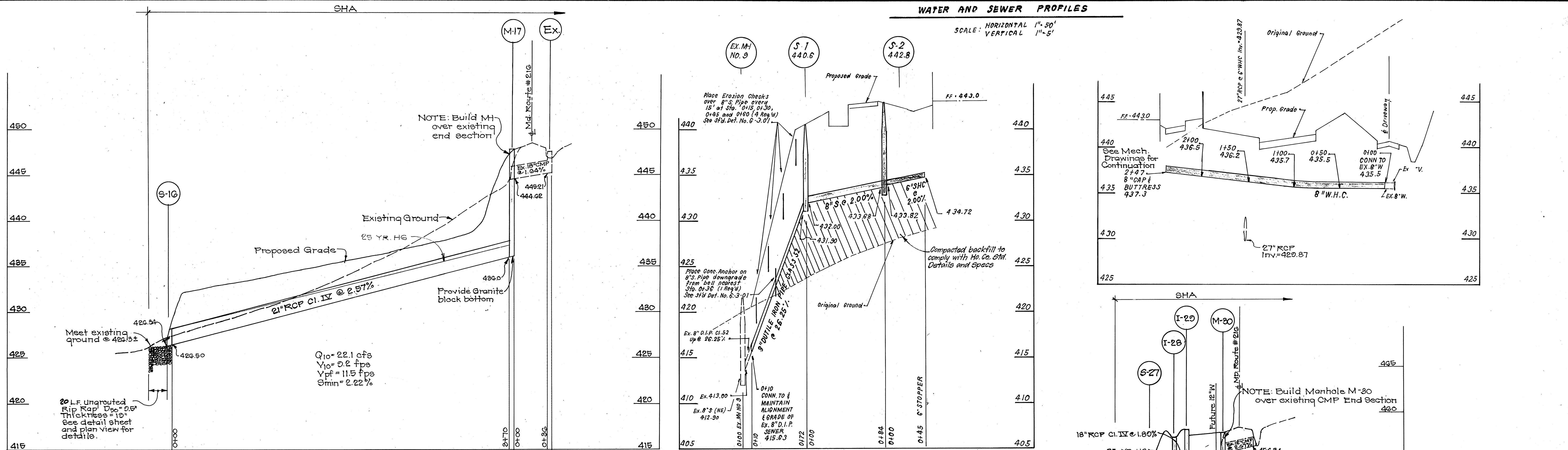


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 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 - WASH.

DESIGNED J.L.S.
DRAWN J.L.S.
CHECKED J.L.S.
DATE 8-10-05

SCALE As Shown
DRAWING 8 of 20
JOB NO. 02-228
FILE NO. 02-228 X

STORM DRAINAGE PROFILES
WESTERN ELEMENTARY SCHOOL #2
 TAX MAP 41 AND 46, PARCEL 115
 FIFTH (5TH) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042



- WATER AND SEWER NOTES**
- All construction methods and materials for on-site water and sewer systems shall follow the current editions of the Howard County Plumbing Code, supplemented by the Howard County Standard Details and Specifications where necessary.
 - 6-inch sewer connection shall be built to within 5 feet of the building at a slope of 2.00%.
 - 6 and 8-inch P.V.C. Pipe shall meet the requirements of A.S.T.M. D-3034, wall thickness classification SDR-35.
 - Where sewer connection is to be extended from public connection, the pipe material shall be the same as the public sewer, D.I.P. Class 52. Water meter shall be located inside the building.
 - Area where water connection is to be built shall be at final grade and the water house connection shall be laid with a minimum of 3.5' of cover. Water house connection shall be 8" diameter, Ductile Iron, Class 52.
 - Water house connection shall be built to within 5 feet of the building.

STORM DRAIN PROFILES

SCALE: HOR. 1"=50'
VERT. 1"=5'

Reviewed for HOWARD S.C.D.
meets Technical Requirements
Signature: *[Signature]* Date: 8/14/95
U.S. Natural Resources Conservation Service

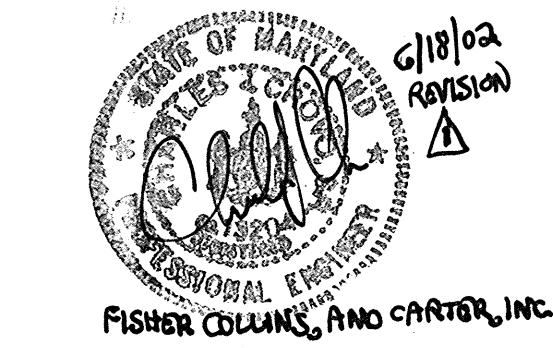
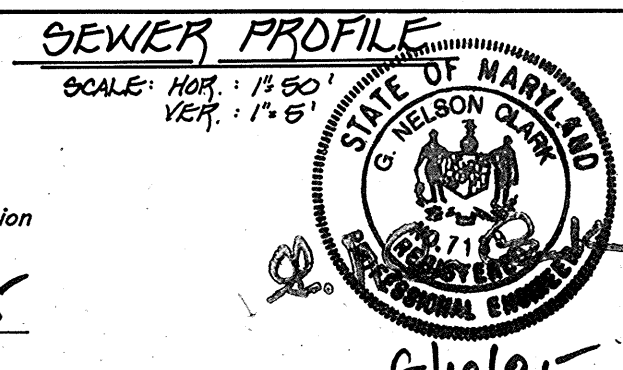


DEVELOPER'S/BUILDER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

Signature: *[Signature]* Date: 8/14/95
NAME: *[Name]*

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature: *[Signature]* Date: 8/14/95
NAME: G. NELSON CLARK



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APPROVED: DEPARTMENT OF PLANNING AND ZONING
Signature: *[Signature]* Date: 8/25/95
Chief, Development Engineering Division

Signature: *[Signature]* Date: 8/25/95
Chief, Division of Land Development and Research

DESIGNED J.L.S.	STORM DRAINAGE AND WATER & SEWER PROFILES	SCALE As Shown
DRAWN J.L.S.	WESTERN ELEMENTARY SCHOOL No. 2	DRAWING 2 of 20
CHECKED J.L.S.	TAX MAP 41 AND 40, PARCEL 115 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 02-228
DATE 8-10-95	FOR: HOWARD COUNTY BOARD OF EDUCATION 10010 ROUTE 108 ELLCOTT CITY, MARYLAND 21042	FILE NO. 02-228X

CONNECT TO AND MAINTAIN ALIGNMENT AND GRADE OF EXISTING 8" D.I. SEWER PIPE

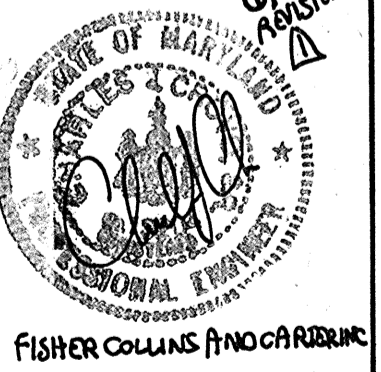
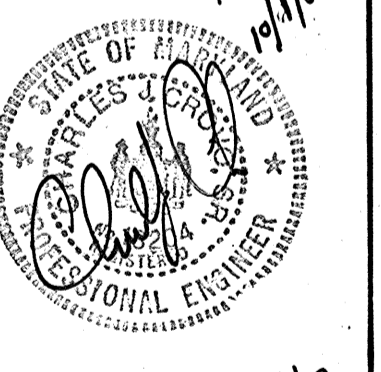
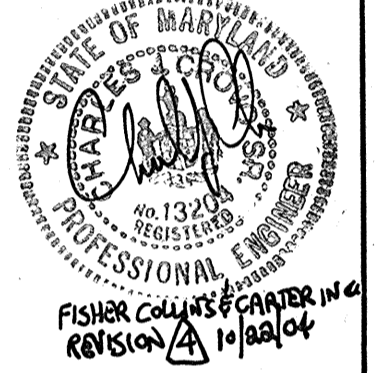
TRAP#1 SOST. ST II
 DA= 4.8 Ac.
 Bottom Elev.=416.0
 Crest Elev.=421.0
 Cleanout Elev.=417.5
 Bottom Dimensions=25'x20'
 Wet Storage Depth= 3'
 Volume Req'd.= 8640 c.f.
 Volume Provided=8628 c.f.
 Dry Storage Depth=2'
 Volume Req'd.=8640 c.f.
 Volume Provided=8622 c.f.
 L=20'
 2:1 Side Slopes

20' L.F. ungrouted Rip Rap - See detail Sheet 9 of 20

LEGEND
 Contour Interval 2 feet
 Existing Contour - - - - - 212
 Proposed Contour - - - - - 212
 Direction of Drainage - - - - -
 Spot Elevation +24.2
 Silt Fence - - - - -
 Earth Dike - - - - -
 Limit of Disturbance - - - - -
 Proposed Drainage Divide - - - - -
 Stabilized Construction Entrance SCE
 Exist trees

CONNECT TO EX. 6" W. (PUBLIC)

Date	Revision	By
10-22-04	Road Widening, Utility Relocation & New Conc. Walk	FCC



NOTE: REVISIONS MADE HEREAFTER 7:00 AM ARE PREPARED BY: JOYCE ENGINEERING CORPORATION 10766 BALTIMORE AVE. BELLEVILLE, MD 20705 PHONE: (301) 545-4300

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research
 Director

Reviewed for HOWARD S.C.D. meets Technical Requirements
 Signature: [Signature]
 Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: [Signature]
 Approved

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

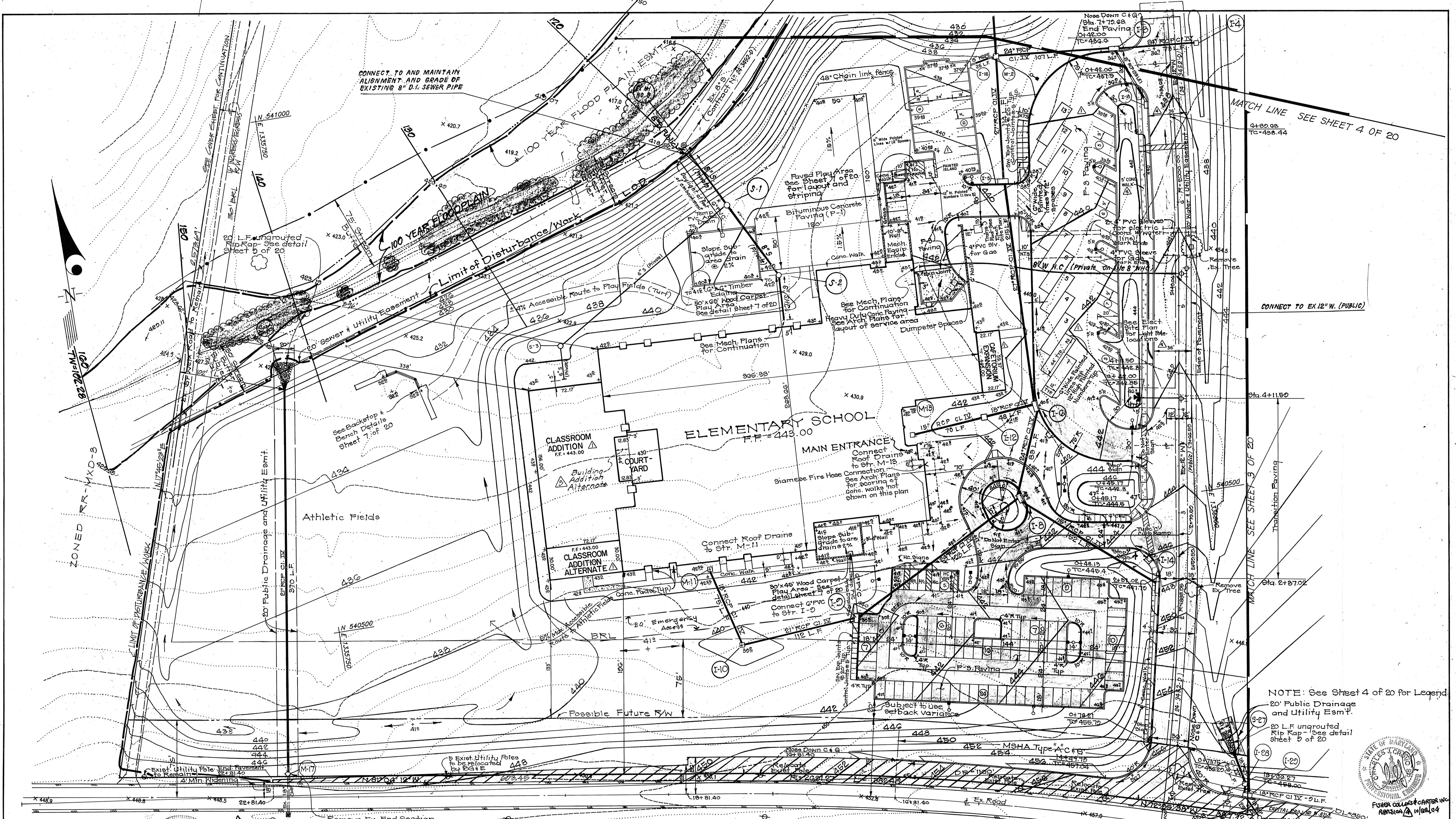
10-1-02 Revised overall building footprint to show building addition alternate.
 G18-02 Building Addition + Parking Lot Expansion
 Date: 8/10/95

7-21-12 REVISED TO ADD AND APPROVE 10' INCREASES IN DRIVEWAY WIDTHS AND DRIVEWAY DEVICES AS SHOWN
 DATE: 8/10/95

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DESIGNED ZAL	SCALE 1"=40'
DRAWN ZH	DRAWING 14 OF 20
CHECKED WHT	JOB NO. 92-228
DATE 8-10-95	FILE NO. 92-228X

SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 46, PARCEL 115
 FIFTH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: HOWARD COUNTY BOARD OF EDUCATION
 10810 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042



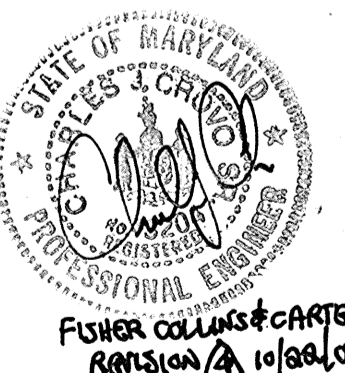
MATCH LINE SEE SHEET 4 OF 20

CONNECT TO EX. 12" W. (PUBLIC)

Sta. 4+11.50

Sta. 2+87.02

NOTE: See Sheet 4 of 20 for Legend
 20' Public Drainage and Utility Esm't.
 20' L.F. ungrouted Rip Rap - See detail sheet 9 of 20



FISHER COLLINS & CARTER, INC.
 RANSON, VA 22089

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research
 Director

8/21/95
 8/25/95
 8/25/95

Reviewed for HOWARD S.C.D.
 Meets Technical Requirements
 Signature: [Signature]
 Date: 8/16/95
 Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURAL RESOURCES CONSERVATION SERVICE, HOWARD S.C.D.

Approved: [Signature]

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Natural Resources Conservation Service, HOWARD S.C.D.

Signature: [Signature]
 G. NELSON CLARK
 DATE: 8/16/95

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic, on-site inspection by the Natural Resources Conservation Service or their authorized agents, as are deemed necessary.

Signature: [Signature]
 DATE: 8/16/95

SCAGGSVILLE ROAD STATE ROUTE 216

NOTE: REVISIONS MADE HEREAFTER 7-21-96 ARE PREPARED BY: JUDGE ENGINEERING CORPORATION
 10716 BALTIMORE AVE
 BELTSVILLE MD 20705
 PHONE (301) 945-4333

10-22-04 Road Widening, Utility Relocation & New Conc. Walk
 DATE: 10-22-04 REVISION: BY: F.C.C.

REVISIONS:

6-18-02	Building Addition & Parking Lot Expansion	F.C.C.
7-26-96	ADJUSTED BLDG. FOOTPRINT TO SHOW INGRESS-EGRESS B.W. REVISED GRADING AS REQ'D	J.E.V.

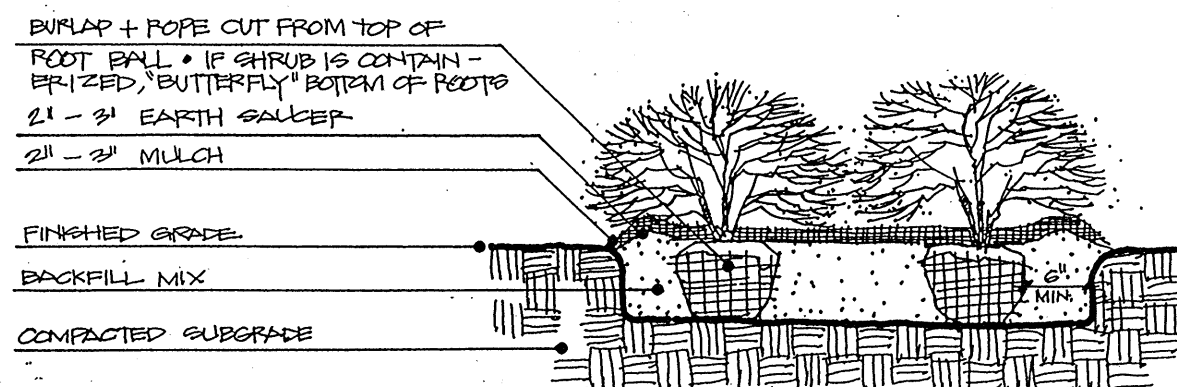
CLARK • FINEFROCK & SACKETT, INC.
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DESIGNED: [Signature]
 DRAWN: ZH
 CHECKED: WHT
 DATE: 8-10-95

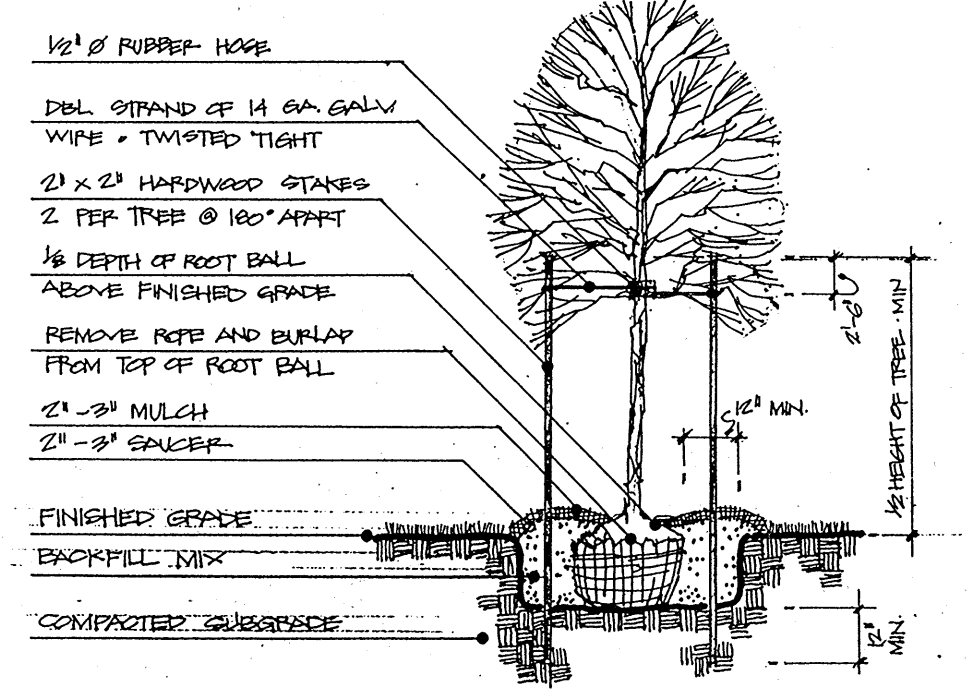
SITE DEVELOPMENT PLAN
 SCALE: 1" = 40'
 DRAWING NO. 2 of 20
 JOB NO. 02-228
 FILE NO. 02-228X

WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 45, PARCEL 115
 FIFTH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10810 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042



Shrub Planting Detail



Tree Planting Detail

Plant List

KEY	QTY	NAME	SIZE	CONDITION
AD	45	ACER RUBRAUM 'OCTOBER GLORY'	12-15'; 2 1/2\"-3\" cal.	B+B
OK	2	OCTOBER GLORY RED MAPLE	6-7'; B+B	MULTI-STEM.
CL	25	CORNUS KOUSA CHINENSIS	6-7'; B+B	MULTI-STEM.
CL	25	KOUSA DOGWOOD	6-7'; B+B	MULTI-STEM.
EP	44	CUPRESSOCYPARIUS LEYLANDII	7-8'; B+B	FULL
EP	44	LEYLAND CYPRESS	7-8'; B+B	FULL
IC	70	EVONYMUS PRATENSIS 'PAULI'	24-30'; B+B	
IC	70	PAULI EVONYMUS	24-30'; B+B	
IC	70	ILEX COENATA 'GREEN LUSTRE'	18-24'; B+B	
IC	70	GREEN LUSTRE JAPANESE HOLLY	18-24'; B+B	
JS	18	JUNIPERUS CHINENSIS 'SARGENTII'	18-24'; CONTAINER	
JS	18	SARGENT'S JUNIPER	18-24'; CONTAINER	
RC	10	PRUNUS CADAFERNA 'THUNDERCLOUD'	8-10'; 1 1/4\"-2\" cal.	B+B
RC	10	THUNDERCLOUD PRUNELLA	8-10'; 1 1/4\"-2\" cal.	B+B
PE	58	RED TIPPED RHODINIA	2-3'; B+B	
PS	30	PINUS STROBUS	8-8'; B+B	FULL
PS	30	EASTERN WHITE PINE	8-8'; B+B	FULL
QB	12	QUERCUS BOMBALUS	12-15'; 2 1/2\"-3\" cal.	B+B
QB	12	NORTHERN RED OAK	12-15'; 2 1/2\"-3\" cal.	B+B
QP	13	QUERCUS PAUSTRIS	12-15'; 2 1/2\"-3\" cal.	B+B
QP	13	PIN OAK	12-15'; 2 1/2\"-3\" cal.	B+B
TD	23	TAXUS BACATA 'DEPAVENS'	18-24'; B+B	
TD	23	WEeping ENGLISH YEW	18-24'; B+B	
ZS	10	ZELKOVA SERMATA 'GREEN VASE'	12-15'; 2 1/2\"-3\" cal.	B+B
ZS	10	GREEN VASE ZELKOVA	12-15'; 2 1/2\"-3\" cal.	B+B

Planting Notes

- Field verify underground utility locations before starting planting work. Contact Architect if any relocations are required.
- All areas disturbed by construction activities but not otherwise planted, sodded, paved or mulched shall be seeded in accordance with project specifications.
- All plant materials shall be full and heavy, be well formed and symmetrical, conform to A.A.N. Specifications and be installed in accordance with project specifications.
- All exposed earth within the limits of the planting beds shall be mulched with shredded hardwood mulch as per planting details.
- 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 precedence.
- This plan to be used for Planting only.
- The contractor shall notify the Architect in writing if he/she encounters soil or drainage conditions which may be detrimental to the growth of plants.

STORMWATER MANAGEMENT SHALLOW MARSH AREA PLANT LIST

KEY	QTY	PLANT NAME	SIZE	REMARKS
CO	15	CEPHALANTHUS OCCIDENTALIS	BARE ROOT	3 CLUMPS OF 5' x 5'
PV	20	PELTANDRA VIRGINICA	BARE ROOT	Arrow-Arrow
SA	40	SCIRPUS AMERICANUS	BARE ROOT	Common Three Square
SL	90	SAGITTARIA LATIFOLIA	BARE ROOT	Duck Potato

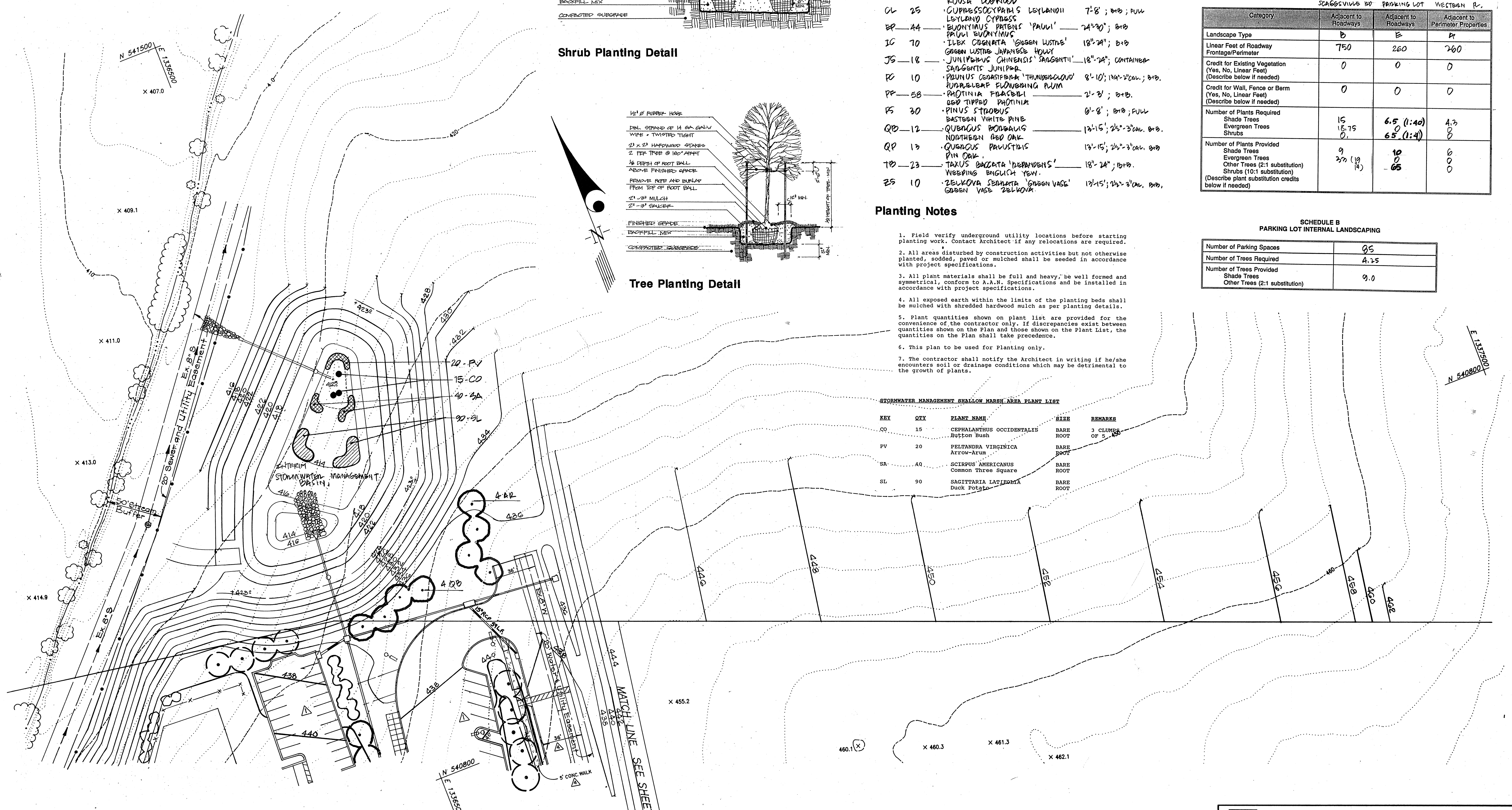
Howard County Landscape Manual Data

SCHEDULE A
PERIMETER LANDSCAPE EDGE

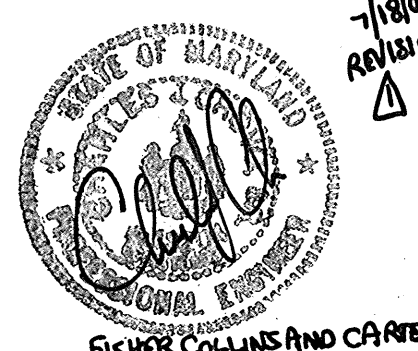
Category	Adjacent to Roadways	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	B	E	F
Linear Feet of Roadway Frontage/Perimeter	750	260	260
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	0	0	0
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	0	0	0
Number of Plants Required			
Shade Trees	15	6.5 (1:40)	4.3
Evergreen Trees	18.75	0	0
Shrubs	0	6.5 (1:4)	0
Number of Plants Provided			
Shade Trees	9	10	6
Evergreen Trees	20 (19)	0	0
Other Trees (2:1 substitution)	0	0	0
Shrubs (10:1 substitution)	0	0	0
(Describe plant substitution credits below if needed)			

SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

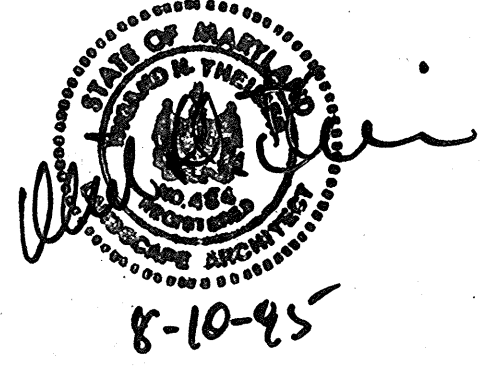
Number of Parking Spaces	95
Number of Trees Required	4.25
Number of Trees Provided	
Shade Trees	9.0
Other Trees (2:1 substitution)	



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date 8/21/95
 Chief, Division of Land Development and Research
 Date 8/25/95
 Director



NO.	DATE	REVISION
10-22-04		Road Widening, Util. Relocation & New Conc. Walk
JUNE 18, 2002		Building Addition And Parking Lot Expansion
		Revision



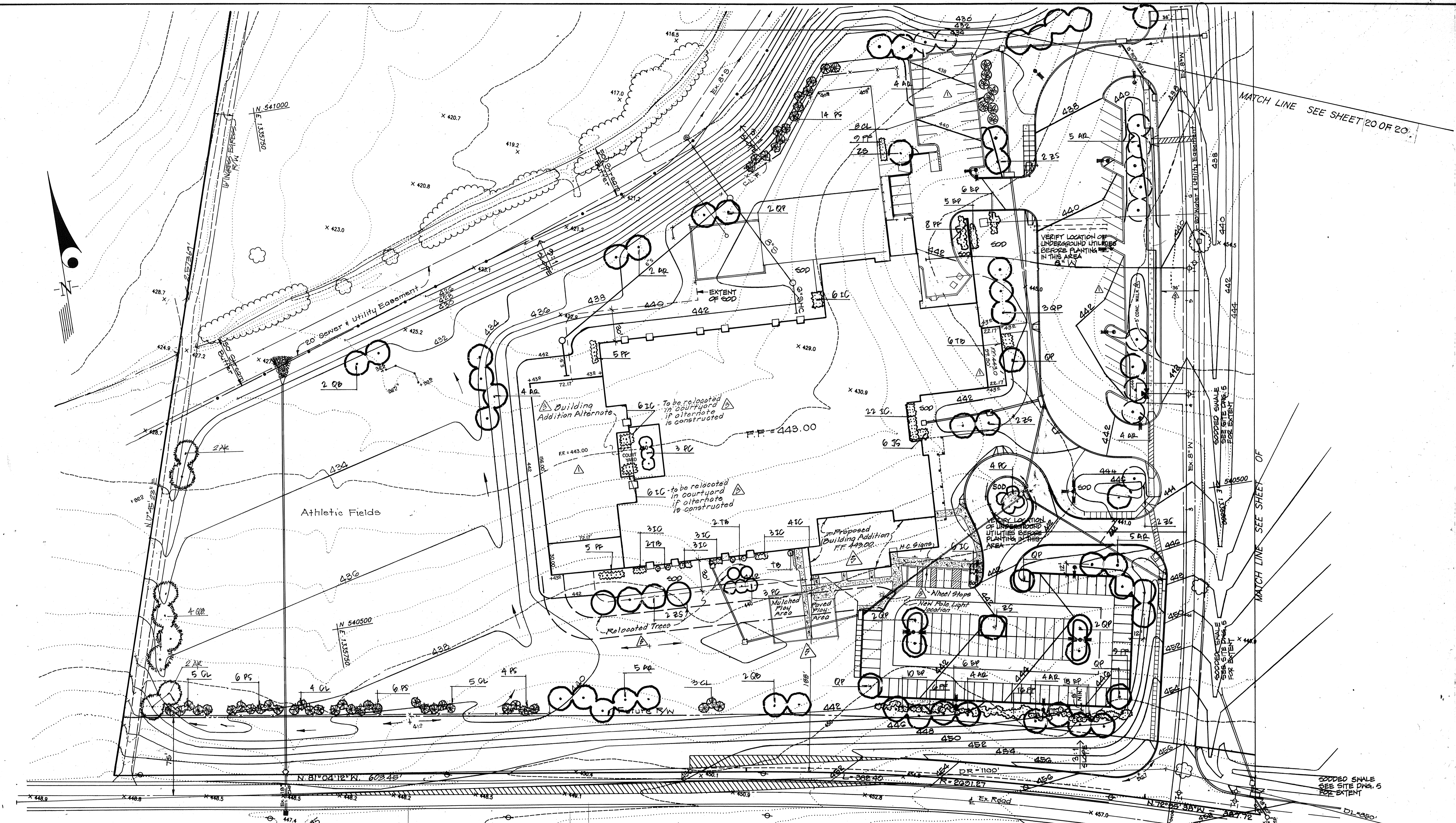
KILDUFF NAGY LANDSCAPE ARCHITECTS
 4815 Prince George's Avenue • Suite 203
 Beltsville, MD 20705
 (301) 595-4955 FAX (301) 595-0964
 Land Planning • Landscape Architecture • Park and Recreation Planning

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DESIGNED MSN
 DRAWN MSN
 CHECKED
 DATE 8-10-95

SCALE 1"=40'
 DRAWING 20 OF 20
 JOB NO. 92-22B
 FILE NO. 92-22B-X

Landscape Plan
WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 46, PARCEL 115
 FIFTH (5TH) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042

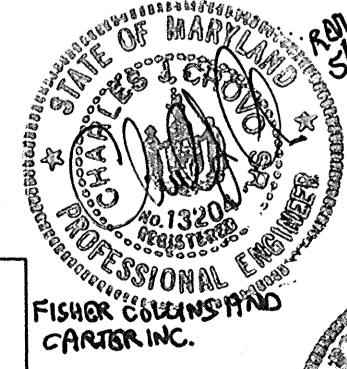


MATCH LINE SEE SHEET 20 OF 20

MATCH LINE SEE SHEET OF

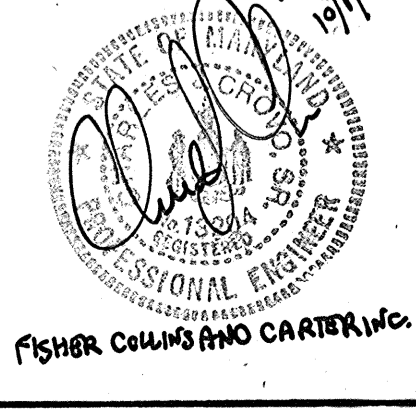
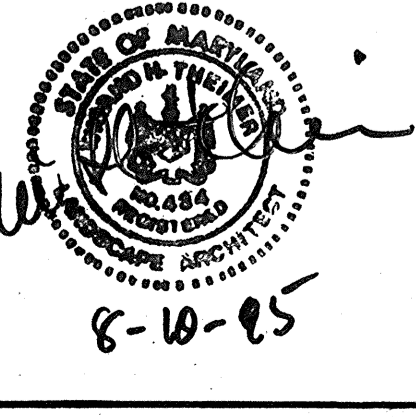
NOTE: REVISIONS MADE HEREAFTER 7-26-96 ARE PREPARED BY JOYCE ENGINEERING CORPORATION 10706 BALTIMORE AVE. BELLEVILLE, MD 20705 PHONE: (301) 596-4333

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research
 Director



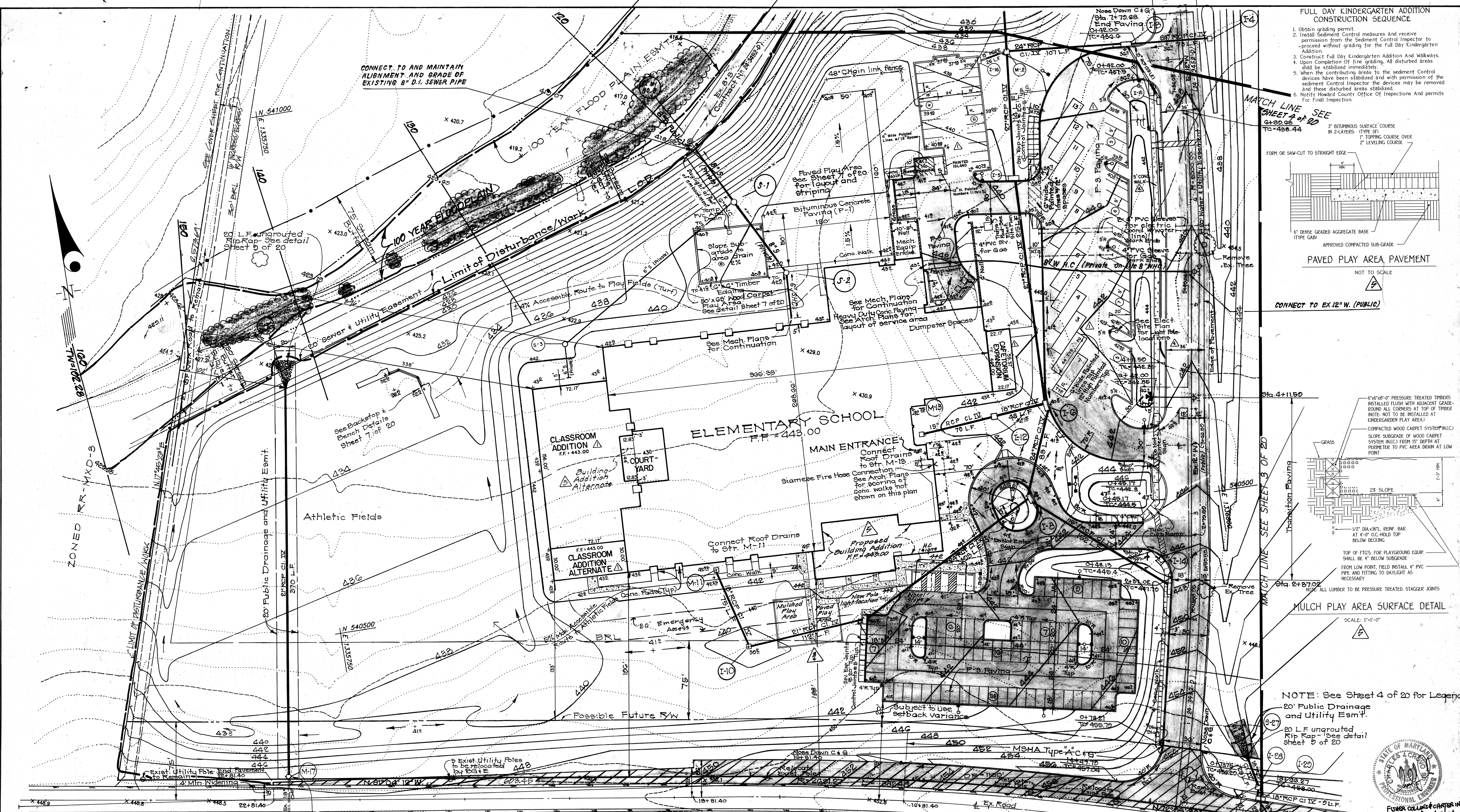
5-18-04	Added full day kindergarten addition, mulched & paved play areas, concrete sidewalks, revised handicap parking areas, relocated & landscape trees	F.C.
10-22-04	Flood Widdening, Utility Relocation & New Concrete Walk	F.C.
10-1-02	Revised overall building footprint to show building addition alternate; also indicated location of proposed plantings should alternate be constructed.	F.C.
7-18-02	Building Addition & Parking Lot Expansion	F.C.
7-26-96	ADJUSTED PLANTING AND BFL ADDED TO IMPROVE EXPOSURE. RELOCATED TREES TO BEY. GRADING	J.E.L.
DATE:	REVISIONS:	BY:

SCAGGSVILLE ROAD STATE ROUTE 216

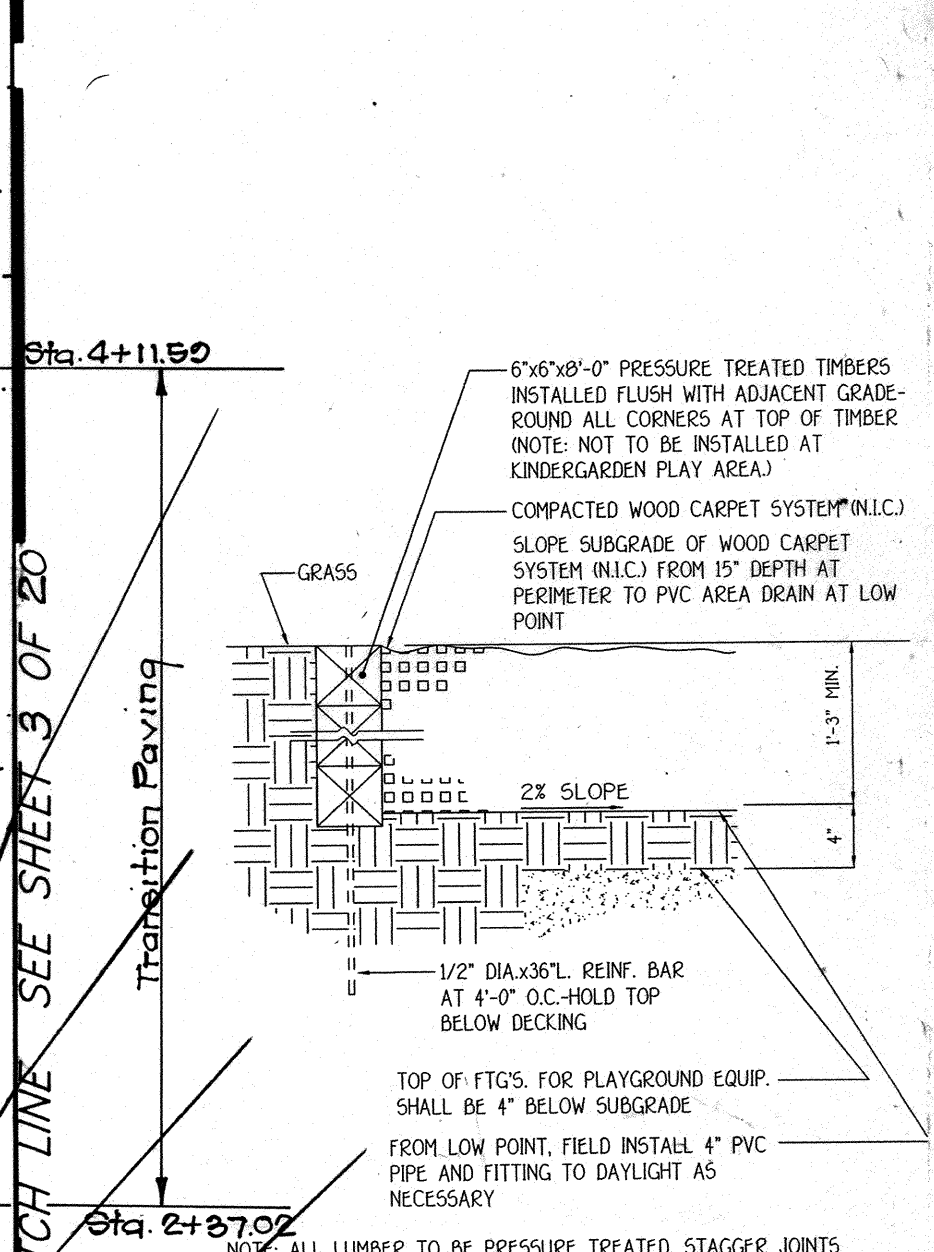
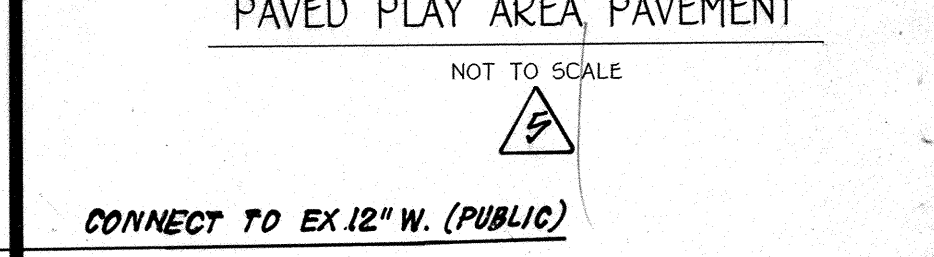
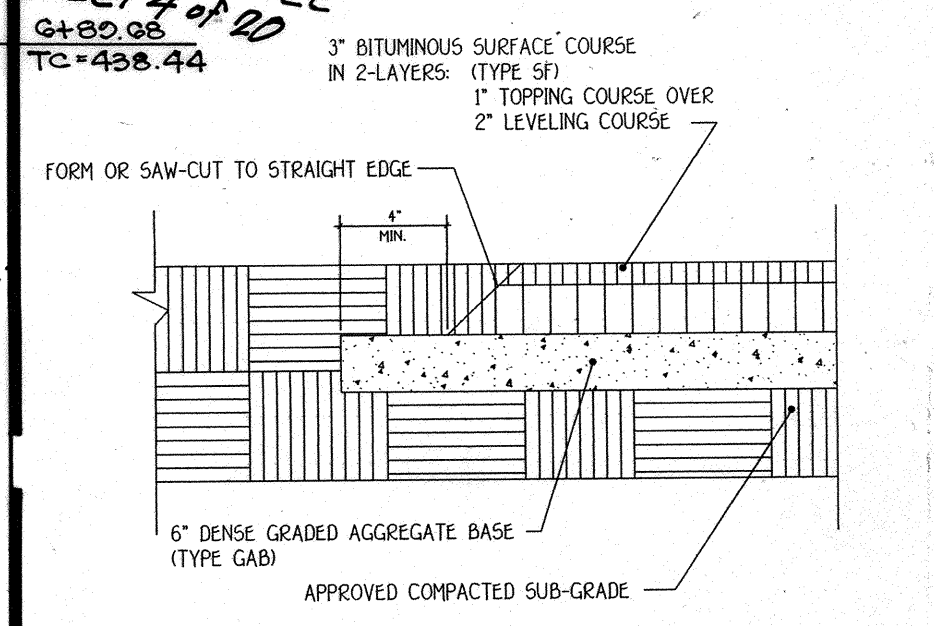


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CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 821-8100 - WASH.		SCALE 1" = 40'
DESIGNED MSN	Landscape Plan WESTERN ELEMENTARY SCHOOL NO. 2 TAX MAP 41 AND 46, PARCEL 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DRAWN MSN	DRAWING 10 OF 20	
CHECKED	JOB NO. 02-228	
DATE 8-10-05	FILE NO. 02-228X	
FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21042		



- FULL DAY KINDERGARTEN ADDITION CONSTRUCTION SEQUENCE**
1. Obtain grading permit.
 2. Install Sediment Control measures and receive permission from the Sediment Control Inspector to proceed without grading for the Full Day Kindergarten Addition.
 3. Construct Full Day Kindergarten Addition and Walkways.
 4. Upon Completion Of fine grading, All disturbed areas shall be stabilized immediately.
 5. When the contributing areas to the sediment Control devices have been stabilized and with permission of the sediment Control Inspector the devices may be removed and these disturbed areas stabilized.
 6. Notify Howard County Office Of Inspections And permits For Final Inspection.



No	Revision	Date
1	Added full day kindergarten addition, paved & mulched play areas, concrete sidewalks, added curbs, sequent notes, details for mulched & paved play areas, revised road parking area.	8/19/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/19/95
Chief, Development Engineering Division

[Signature] 8/25/95
Chief, Division of Land Development and Research

Reviewed for HOWARD S.C.D. and meets Technical Requirements
[Signature] 8/10/95
Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE NATURAL RESOURCES CONSERVATION SERVICE, HOWARD S.C.D.

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Natural Resources Conservation Service.

[Signature] 8/10/95
G. NELSON CLARK

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Natural Resources Conservation Service or their authorized agents, as are deemed necessary.

[Signature] 8/10/95
NAME: [Signature] DATE: 8/10/95

NOTICE: REVISIONS MADE HEREINAFTER 7/21/96 APE PREPARED BY: JUDGE ENGINEERING CORPORATION 10716 BALTIMORE AVE BELTSVILLE MD 20705 PHONE (301) 815-1833

REVISIONS:

DATE	REVISION	BY
6-18-02	Building Addition & Parking Lot Expansion	F.C.C.
7-26-96	ADJUSTED R.L. AND B.L. ADDED TO INGRESS EGRESS R/W. REVISED GRADING AS SHOWN	J.E.L.

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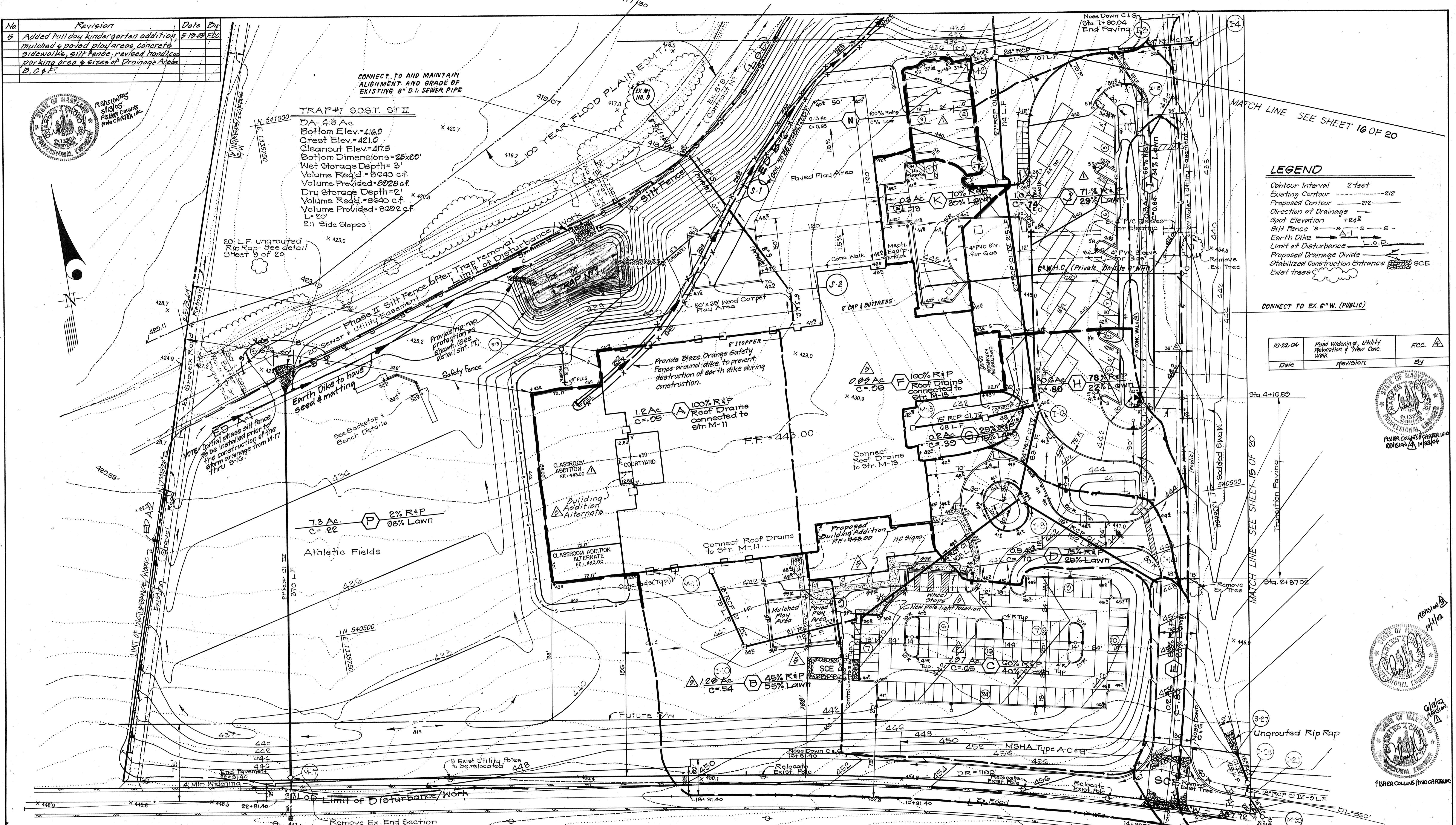
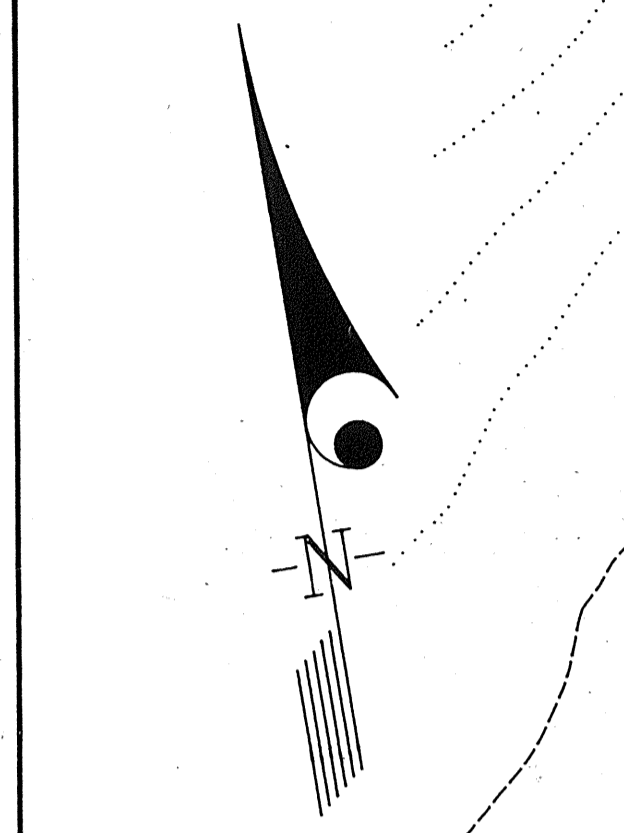
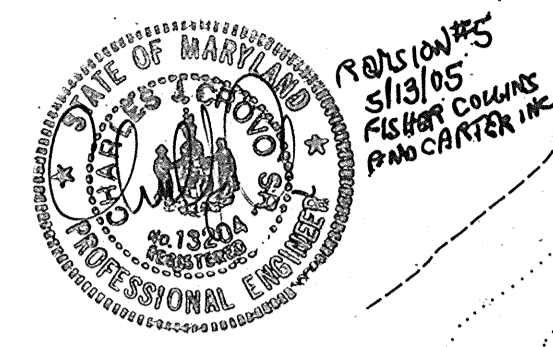
SITE DEVELOPMENT PLAN
SCALE: 1"=40'

WESTERN ELEMENTARY SCHOOL NO. 2
TAX MAP 41 AND 46, PARCEL 115
FIFTH (5th) ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLIOTT CITY, MARYLAND 21042

DESIGNED: [Signature] SCALE: 1"=40'
DRAWN: ZH DRAWING: 2 OF 20
CHECKED: WHT JOB NO.: 02-228
DATE: 8-10-95 FILE NO.: 02-228X

No	Revision	Date	By
5	Added full day kindergarten addition, mulched & paved play areas, concrete sidewalks, silt fence, revised horizontal parking area & sizes of Drainage Areas B, C & F.	5-19-05	FBC



CONNECT TO AND MAINTAIN ALIGNMENT AND GRADE OF EXISTING 8" D.I. SEWER PIPE

TRAP #1 SOST ST II
 DA = 48 Ac.
 Bottom Elev. = 416.0
 Crest Elev. = 421.0
 Cleanout Elev. = 417.5
 Bottom Dimensions = 25'x20'
 Wet Storage Depth = 3'
 Volume Req'd = 8640 cf.
 Volume Provided = 8028 cf.
 Dry Storage Depth = 2'
 Volume Req'd = 8640 cf.
 Volume Provided = 8622 cf.
 L = 20'
 2:1 Side Slopes

LEGEND

- Contour Interval 2-feet
- Existing Contour ---212
- Proposed Contour ---212
- Direction of Drainage →
- Spot Elevation +e2
- Silt Fence s - s - s -
- Earth Dike → A-1
- Limit of Disturbance L.O.D.
- Proposed Drainage Divide
- Stabilized Construction Entrance SCE
- Exist trees

Date	Revision	By
10-22-04	Flood Widening, Utility Relocation & New Conc. Walk	FCC



NOTE: REVISIONS MADE HEREAFTER SHALL BE PREPARED BY: JOYCE ENGINEERING CORPORATION, 10766 BALTIMORE AVE, BELLEVILLE, MD 20705, PHONE: (301) 516-4888

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development and Research

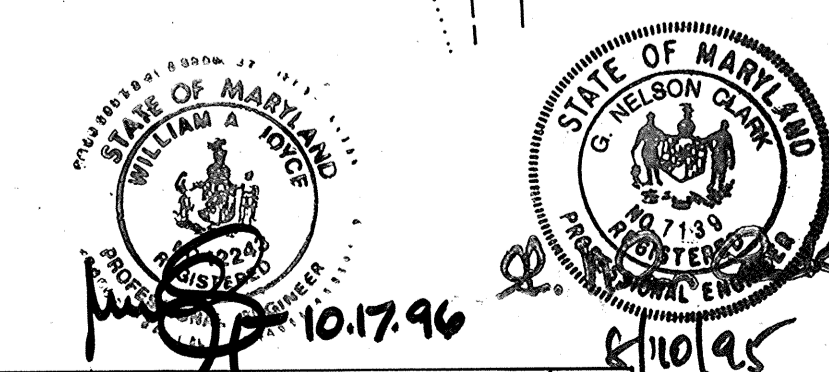
Reviewed for HOWARD S.C.D.
 meets Technical Requirements
 Signature: [Signature]
 Natural Resources Conservation Service

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

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Date	Revisions	By
10-1-02	Revised overall building footprint to show building addition alternate.	[Signature]
6-16-02	Building Addition + Parking Lot Expansion	[Signature]



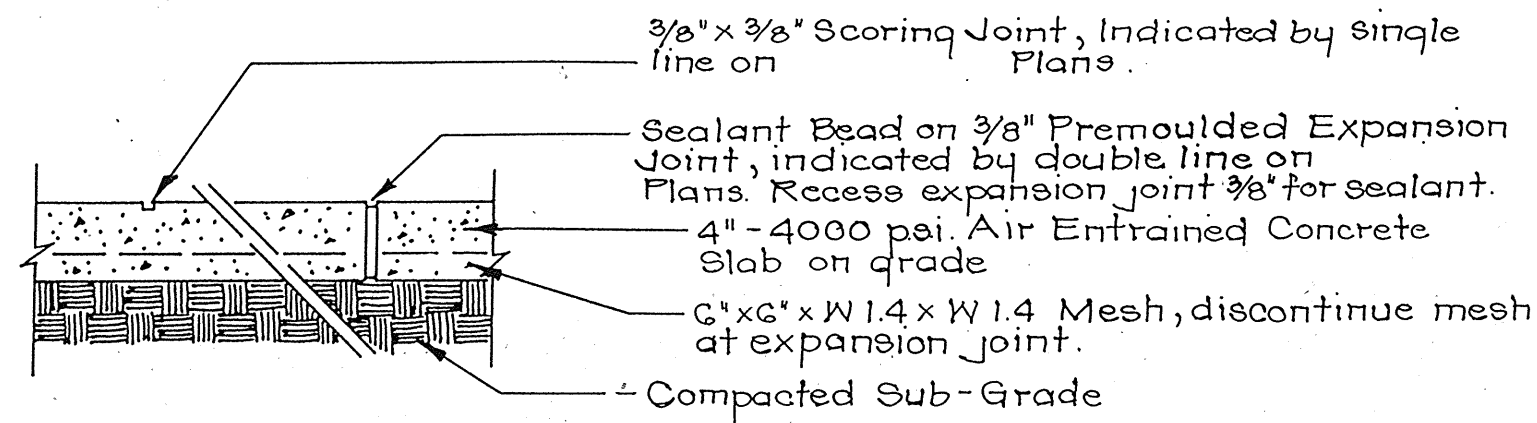
CLARK • FINEFROCK & SACKETT, INC.
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SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP
WESTERN ELEMENTARY SCHOOL NO. 2
 TAX MAP 41 AND 46, PARCEL 115
 FIFTH (5th) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21042

DESIGNED: ZAL
 DRAWN: ZH
 CHECKED: [Signature]
 DATE: 8-10-05

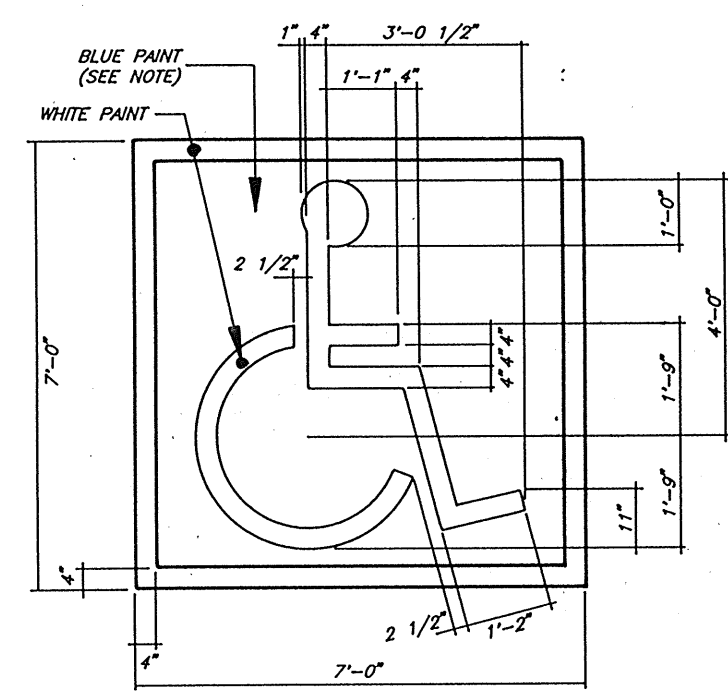
SCALE: 1"=40'
 DRAWING: 14 of 20
 JOB NO.: 02-228
 FILE NO.: 02-228X



CONCRETE WALKS

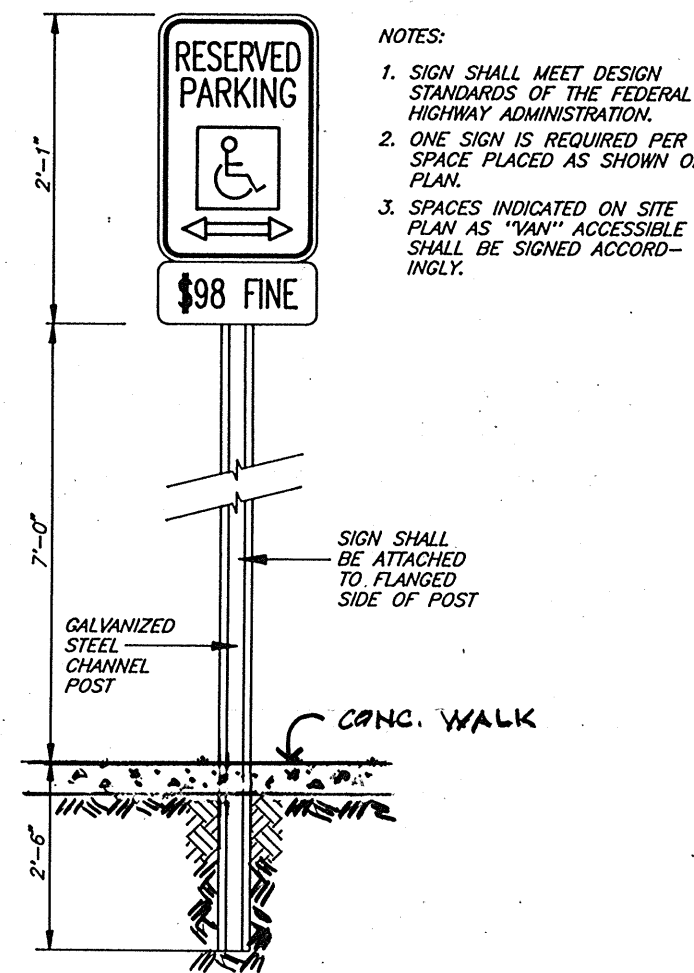
(No Scale)

NOTE: Follow paving plans and floor plans for locations of expansion joints and scoring joints. Where not indicated, install expansion joints at 20' o.c. and install scoring joints at 4' o.c. Slope across sidewalk shall be minimum 1/8"/ft.



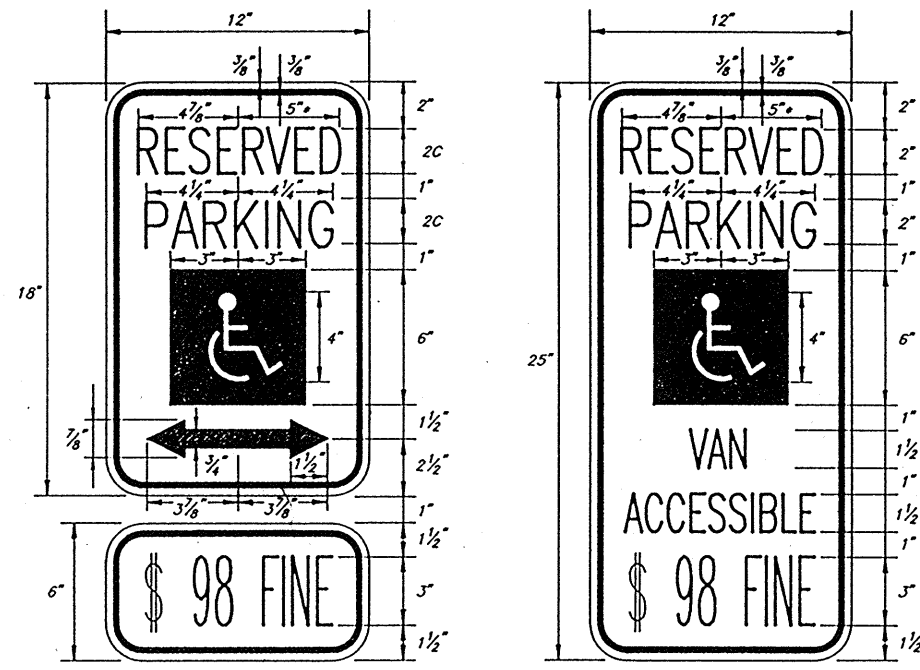
PAINTED SYMBOL

NO SCALE



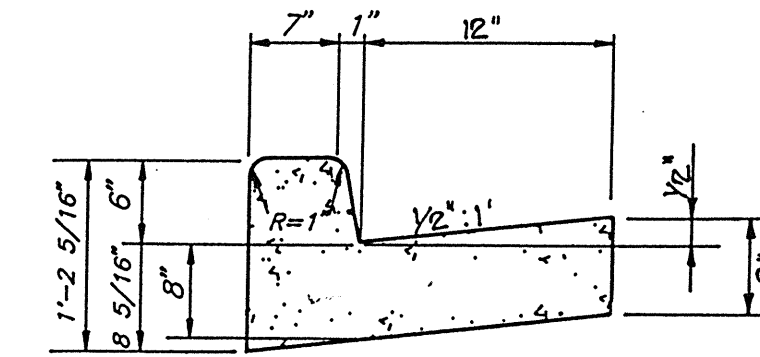
HANDICAP PARKING SIGN DETAIL

NO SCALE



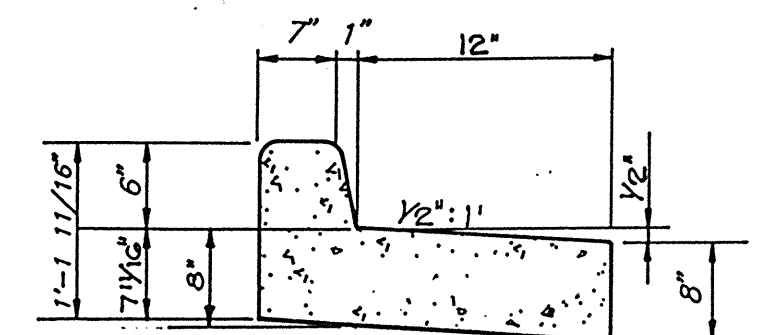
HANDICAP PARKING RESTRICTION SIGN DETAIL

NO SCALE



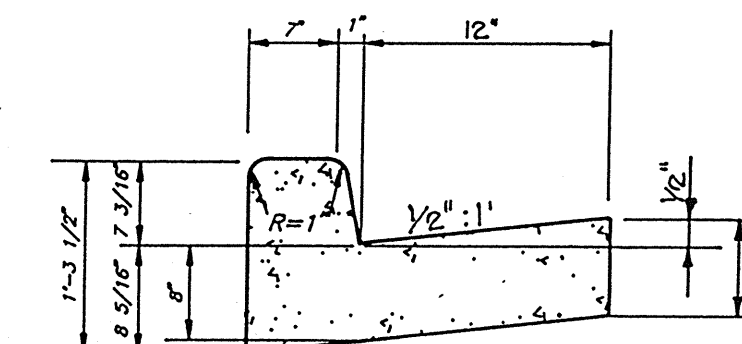
STANDARD 6" COMBINATION CURB AND GUTTER

NO SCALE



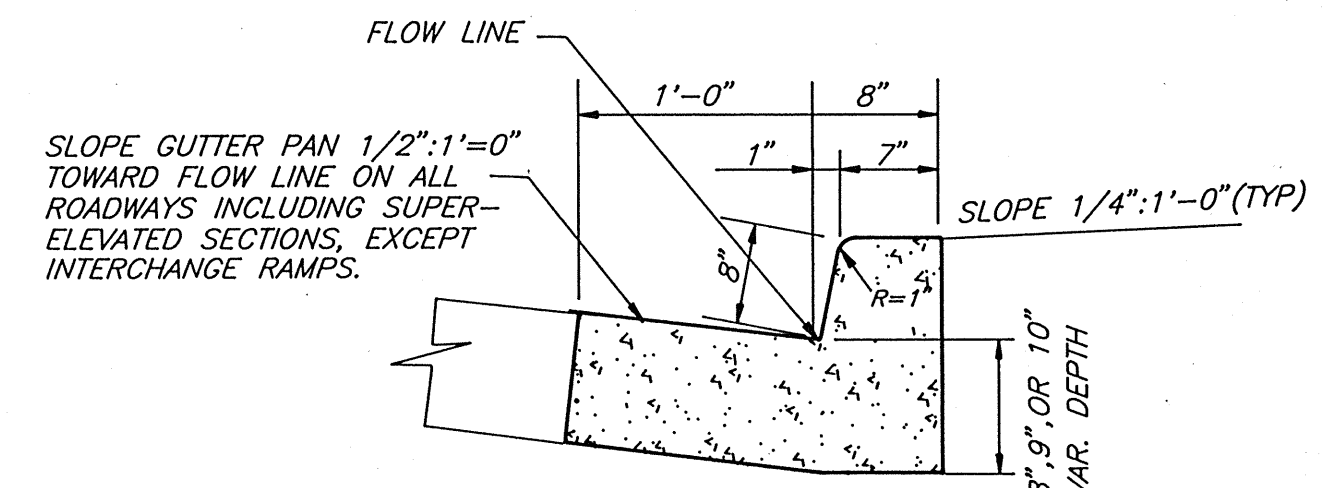
REVERSE 6" COMBINATION CURB AND GUTTER

NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER

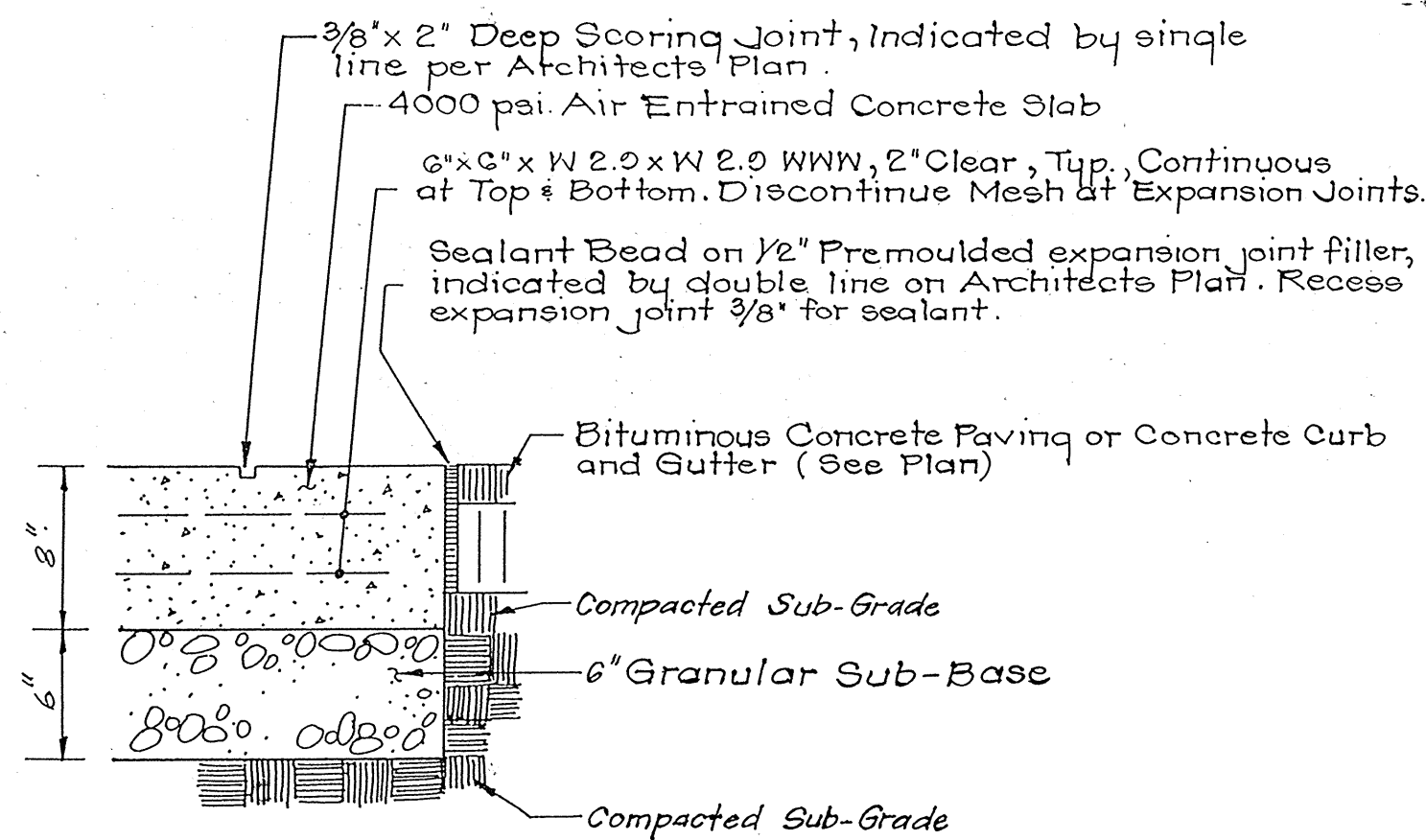
NO SCALE



S.H.A. TYPE A COMBINATION CURB AND GUTTER

NO SCALE

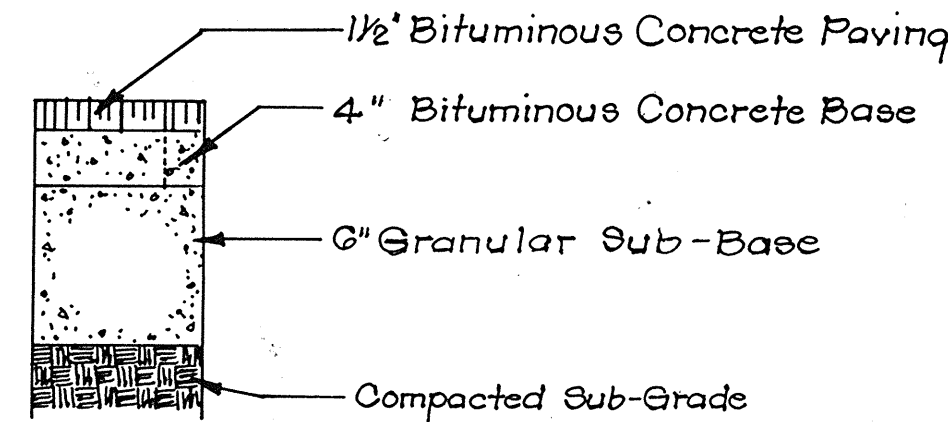
NOTE: 6" & 7" Curbs to be of 4000 PSI Air Entrained Concrete.
50' Max. between expansion joints
10' Max. between control joints
See Site Plan for extent of standard/reverse curb and gutter
Legend (sheet 4 of 20)



HEAVY DUTY CONCRETE PAVING

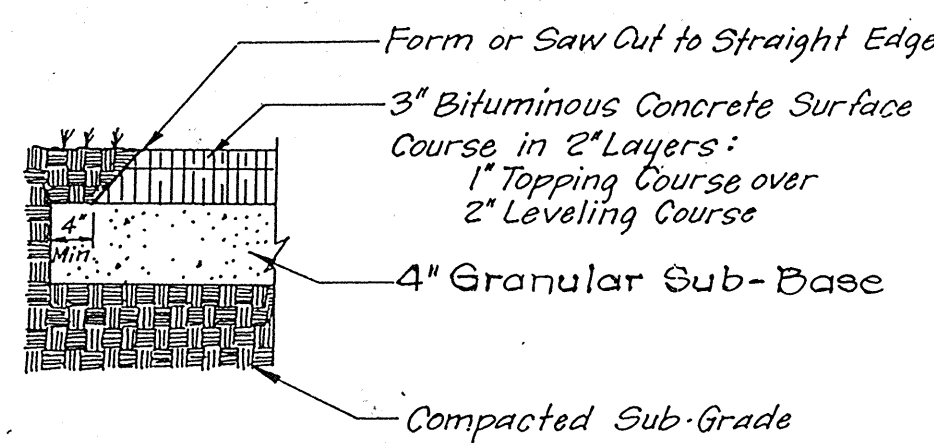
SERVICE YARD

(No Scale)



BITUMINOUS CONCRETE PAVING (P-3)

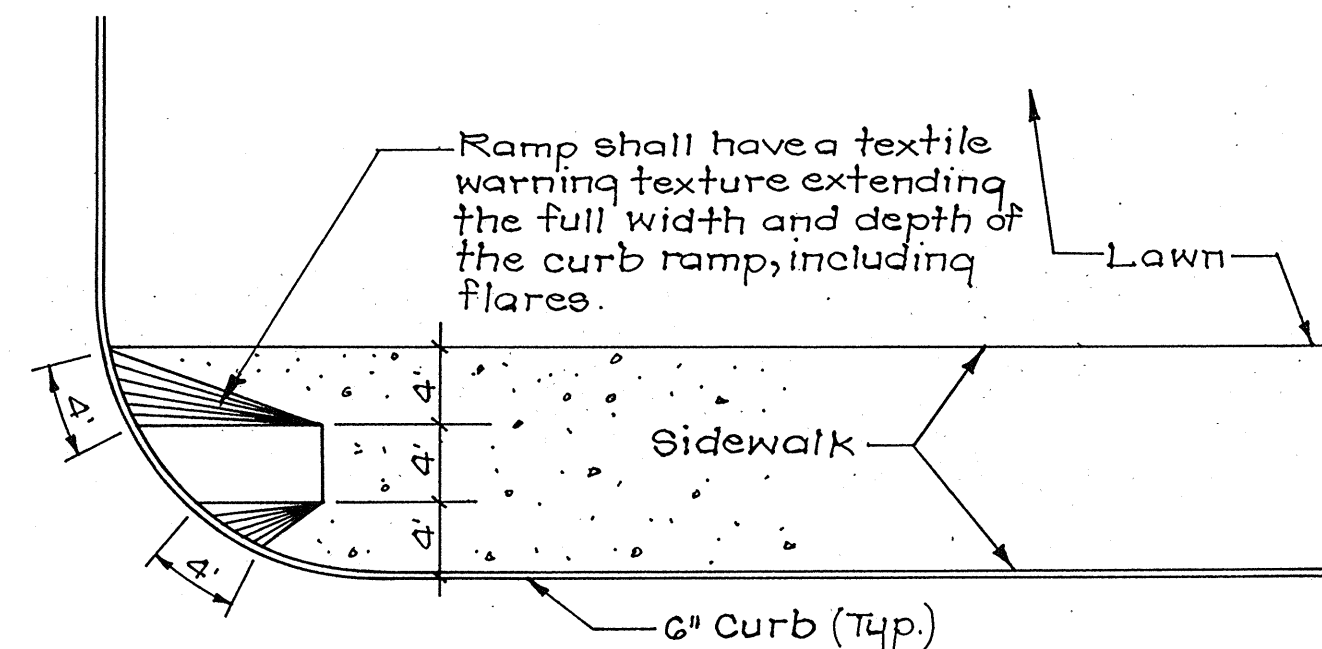
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BITUMINOUS CONCRETE PAVING (P-1)

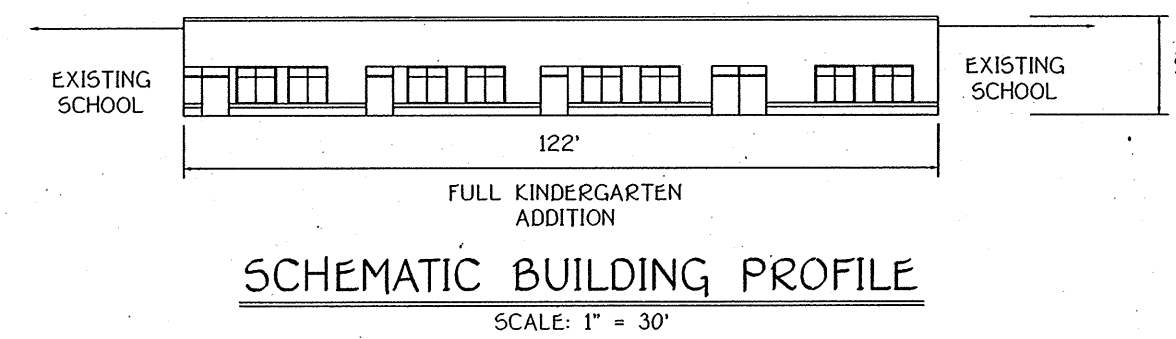
MULTI PURPOSE PLAY COURT

(No Scale)



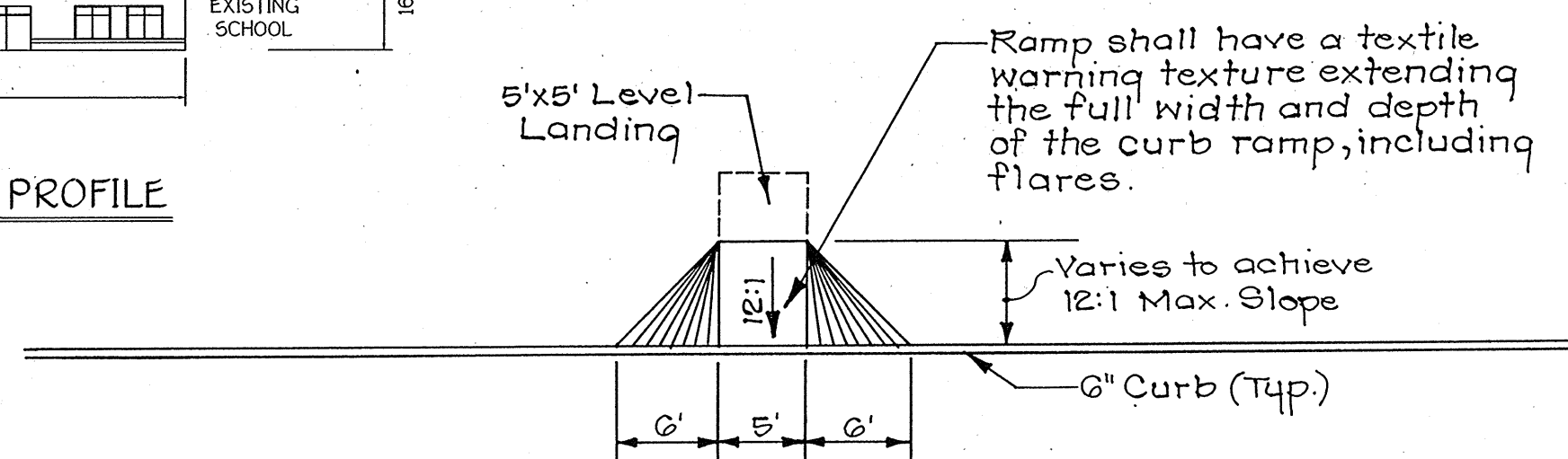
TYPE 2 SIDEWALK RAMP AT SERVICE DRIVE

SCALE: 1" = 10'



SCHEMATIC BUILDING PROFILE

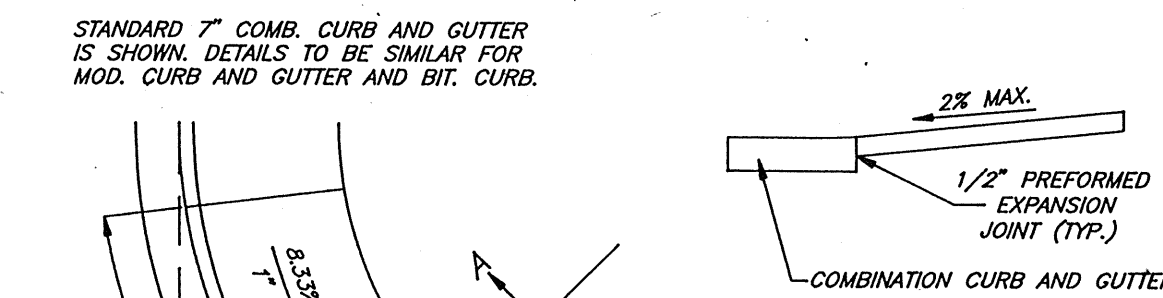
SCALE: 1" = 30'



TYPE 1 TYPICAL HANDICAP CURB RAMP

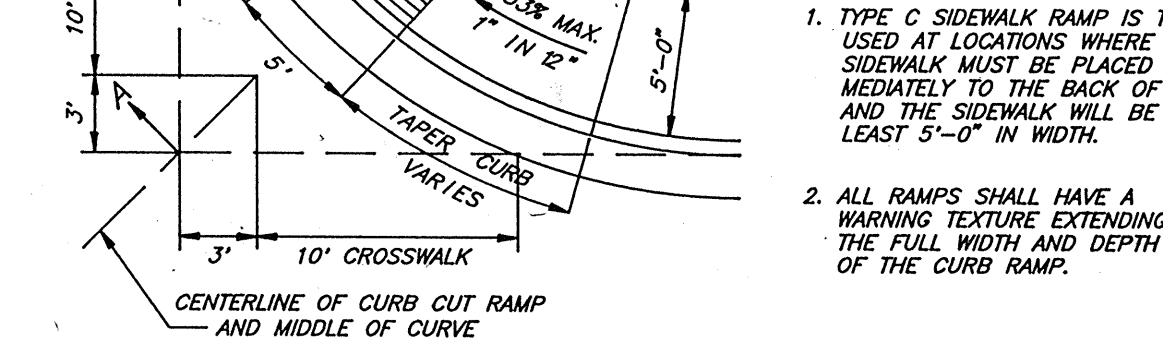
SCALE: 1" = 10'

NOTE: All Handicap Ramps shall conform to current ADAAG Criteria



STANDARD 7" COMB. CURB AND GUTTER

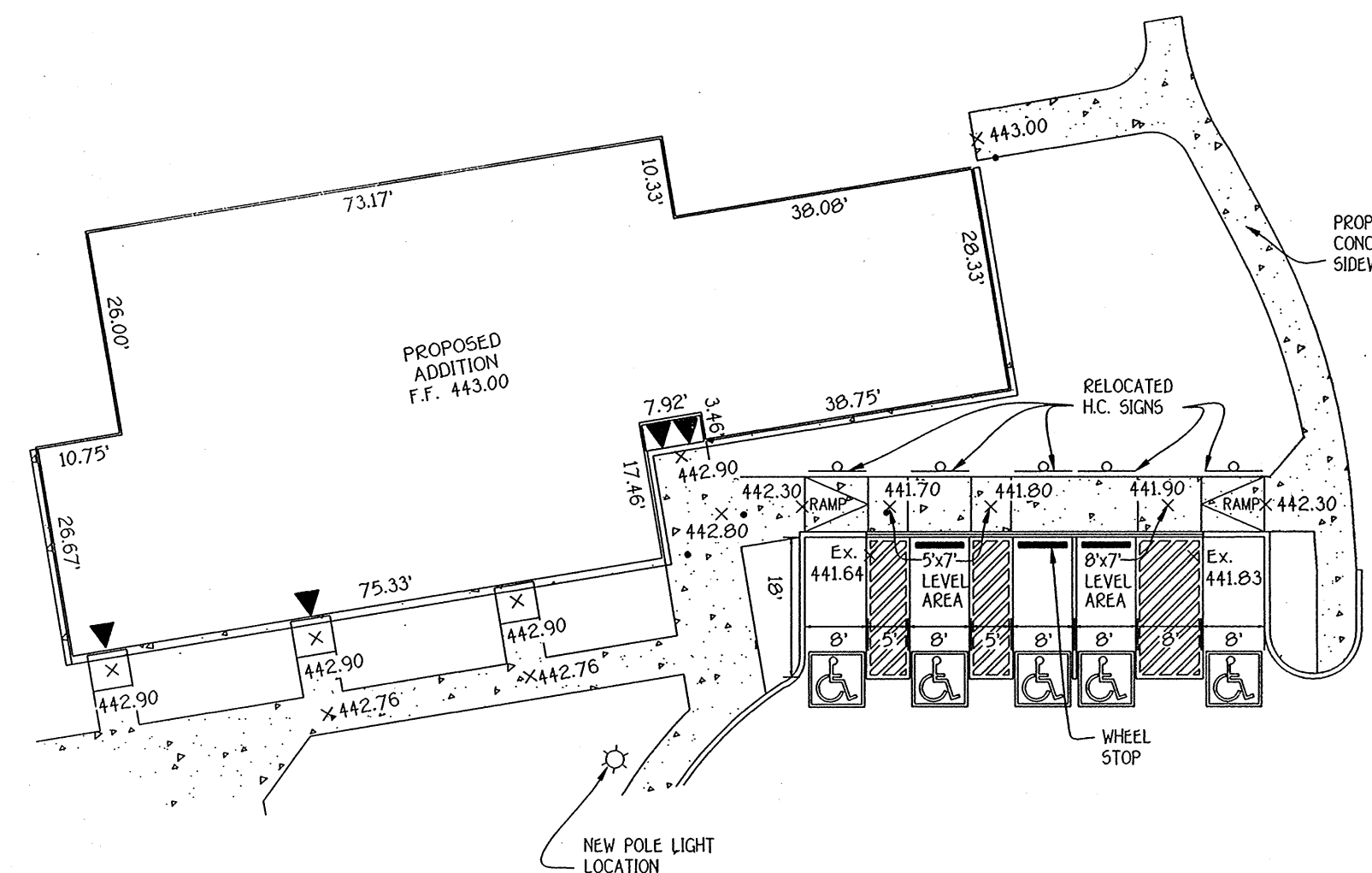
IS SHOWN. DETAILS TO BE SIMILAR FOR MOD. CURB AND GUTTER AND BIT. CURB.



TYPE C SIDEWALK RAMP

(HO. CO. STD. TYPE R 4.03)

NO SCALE



REVISED HANDICAP PARKING AND BUILDING DETAIL

SCALE: 1" = 20'

No.	Revision	Date	By
5	Added full day kindergarten addition, paved & mulched play areas, concrete side walls, schematic building detail, revised handicap parking & building detail.	5/13/05	FCC
		8/21/05	W
		8/25/05	W
		8/25/05	W

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Alvin Damann Chief, Development Engineering Division 8/21/05

Alvin Damann Chief, Division of Land Development and Research 8/25/05

Alvin Damann Director 8/25/05

Professional Engineer Seal: State of Maryland, License No. 11151, Fisher Collins and Carter, Inc.

Professional Engineer Seal: State of Maryland, License No. 810195, Fisher Collins and Carter, Inc.

DATE	JUNE 13, 2002	REVISION	BUILDING ADDITION AND PARKING LOT EXPANSION
DESIGNED	CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.		
DRAWN	SITE DETAILS		
CHECKED	WESTERN ELEMENTARY SCHOOL #02		
DATE	8-10-05	FILE NO.	02-228X