

GENERAL NOTES

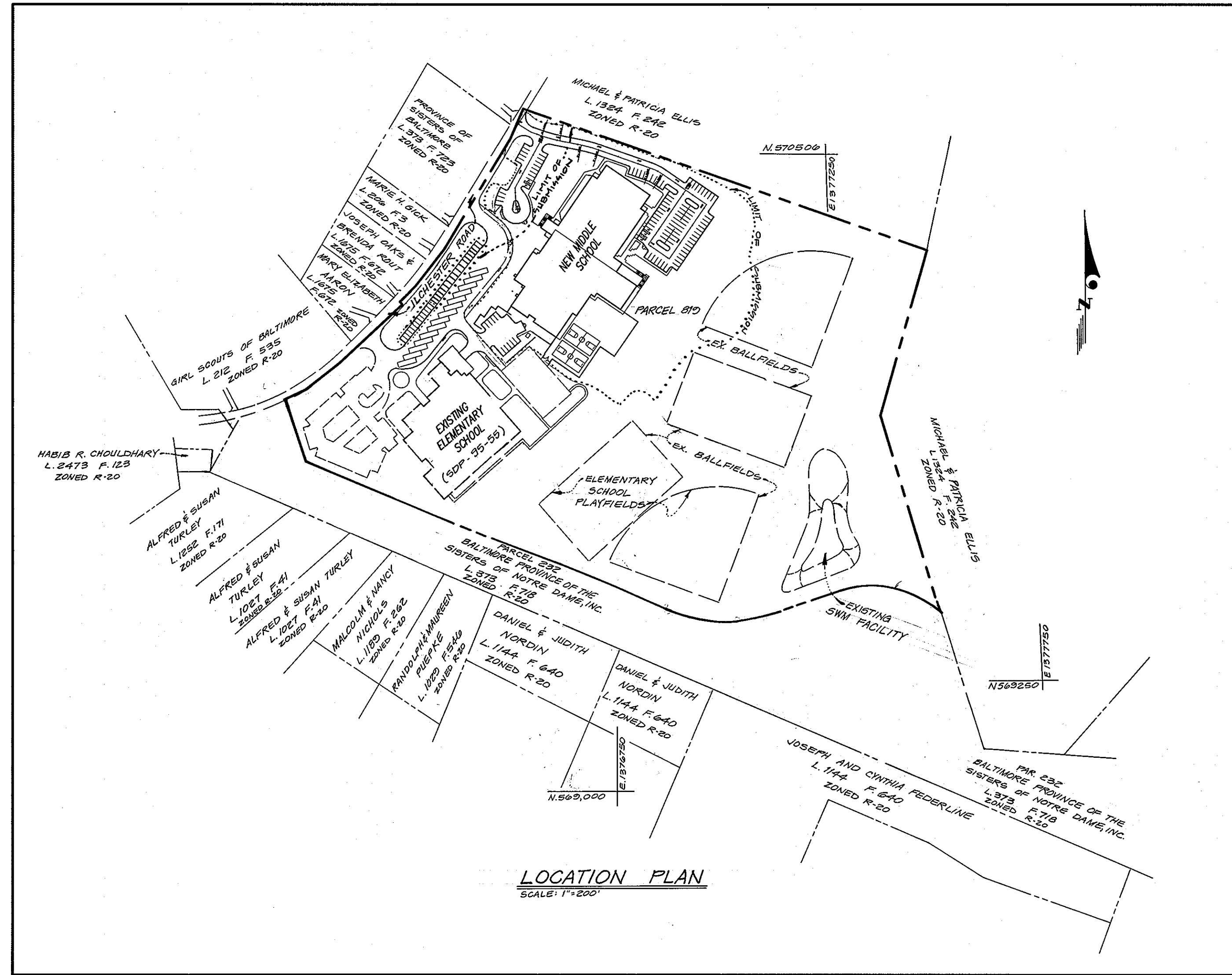
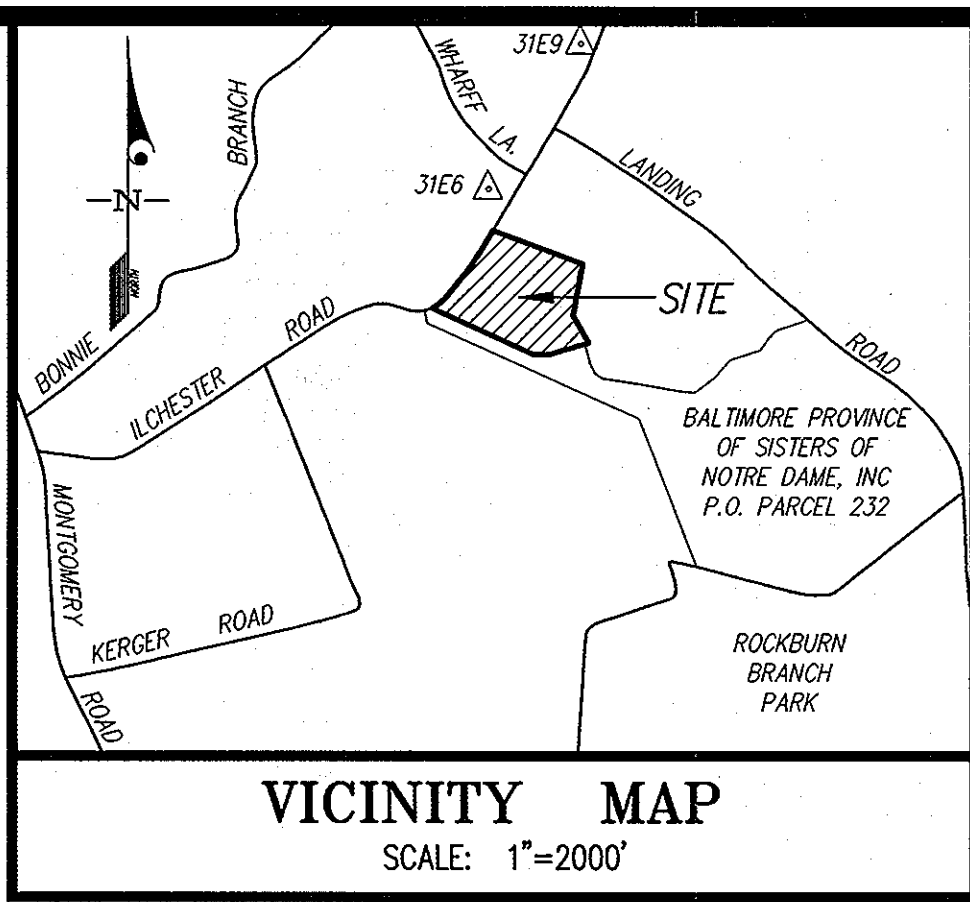
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
- The contractor shall notify the Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48-hours prior to any excavation work.
- Project Background:
 - Location: Tax Map #31, Parcel 819
 - Zoning: R-20
 - Election District: 1st Election District
 - Section/Area: N/A
 - Site Area: Parcel 810 27.22 Ac.
- Approved Name and DPZ Ref. #: SDP-95-55 and WP-95-86
- 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.
- All plan dimensions are to the face of curb or face of building unless otherwise noted. Dimensions are measured perpendicular or radially between items unless otherwise noted.
- Existing topography and features were derived from survey by Gutschick, Little & Weber, P.A. on 2/24/97 and from SDP-95-55.
- Coordinates are based on NAD 83 Maryland Coordinate System as projected by Howard County Geodetic Control Sta. Nos. 31E6 and 31E7.
- Public water and sewer is to be utilized. Contract No. 14-3403-D and No. 44-3665-D
- Stormwater Management is provided on-site by an extended detention facility constructed under SDP-95-55. The facility is privately maintained.
- All storm drains proposed under this SDP are private.
- The existing utilities shown herein were derived from SDP-95-55. The contractor must dig test pits, by hand, at all utility crossings and connection points to verify exact location.
- All proposed ramps shall be in accordance with current A.I.A. Standards. Maximum sidewalk cross slope shall be (2%) two percent. Provide a (5'x5') five foot by five foot level (2% Max.) landing at the top and bottom of all ramps and building entrances and exits.
- All driveways and parking to be owned and maintained by Howard County Board of Education.
- Any damage to County owned right-of-way to be corrected at the contractor's expense.
- Trench bedding for storm drainage structures shall be in accordance with Howard County Standard G2.01. Class "C" Bedding, unless otherwise noted.
- Outer of curbs shall be pitched to conform to adjacent drainage patterns.
- For details of building footprint/profile, parking, road section, handcap, curb and gutter see Sheets 3 of 10 and 4 of 10.
- All curb fillets are 5' radius unless noted otherwise. Curb spot elevations are at the flow line, unless noted otherwise.
- There are no know grave sites or cemeteries on this site.
- Other topics related to this site:
 - Forest Stand Delineation and Forest Conservation Plan: See SDP-95-55.
 - Wetland delineation was prepared by M.A. Dike & Co., Inc. on 3/3/94 and approved on 3/14/95.
 - Traffic Study was prepared by Wells & Assoc., Inc. on 1/18/94 and approved on 3/6/95.
 - SDP-95-55, WP-95-86 and WBS Contract #14-3403-D
 - SOIL ANALYSIS BY ENGINEERING CONSULTING SERVICES, LTD. ON 7-13-94, AND BY GEO-TECHNOLOGY ASSOCIATES, INC. ON 2-11-95.

23. THE FOREST CONSERVATION PLAN (FCP) FOR THIS SITE WAS PREPARED UNDER SDP-95-55 AND UPDATED FOR THE MIDDLE SCHOOL DEVELOPMENT BY THE FCP INCLUDED WITH THIS SDP (SEE SHEET No. 10 OF 10). THE MIDDLE SCHOOL DEVELOPMENT WILL RESULT IN A SMALL NET INCREASE OF OFF-SITE FOREST CONSERVATION AREA (385± SF). THE OFF-SITE AREA REQUIRED TO SATISFY THE FOREST CONSERVATION OBLIGATION FOR THIS SITE WILL BE AT THE SCHOOL BOARD'S SITE IN FULTON (MD. RTE. 216).

NORTHEASTERN MIDDLE SCHOOL No. 2

FIRST (1st) ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



SITE ANALYSIS DATA CHART

1. GENERAL SITE DATA			
A.	PRESENT ZONING:	R-20	
B.	PROPOSED USE OF SITE OR STRUCTURES:	INSTITUTIONAL (PUBLIC SCHOOLS)	
C.	PUBLIC WATER AND SEWER SYSTEM		
2. AREA TABULATION			
A.	TOTAL PROJECT AREA:	27.22± ACRES (PARCEL 819)	
B.	AREA OF THIS PLAN SUBMISSION:	7.3± AC	
C.	LIMIT OF DISTURBED AREA BY THIS SDP:	7.3± AC	
D.	BUILDING COVERAGE OF SITE:	THIS SUBMISSION	UNDER SDP-95-55
E.	PAVED SURFACES:	2.1± AC	1.1± AC
F.	GREEN AREA:	2.0± AC	2.5± AC
			TOTAL (% OF SITE)
			4.5± AC (16.5%)
			19.4± AC (71.3%)
3. OPEN SPACE DATA			
A.	OPEN SPACE REQUIRED ON SITE:	N/A	
B.	OPEN SPACE PROPOSED:	N/A	
4. PARKING SPACE DATA			
A.	NUMBER OF PARKING SPACES REQUIRED BY ZONING REGULATIONS:	N/A	
B.	TOTAL NUMBER OF PARKING SPACES PROVIDED BY THIS SDP:	142 CAR SPACES (INCLUDES 5 HANDICAPPED PARKING SPACES)	
NOTE: THE PARKING SPACES PROPOSED IS TO MEET THE REQUIREMENT OF THE BOARD OF EDUCATION. THE 142 CAR SPACES PROPOSED UNDER THIS SDP INCLUDES THE 91 SPACES SHOWN IN THE BUS LOOP TO SATISFY THE ADDITIONAL PARKING NEED OF THE ELEMENTARY SCHOOL.			

SHEET INDEX

SHEET No.	TITLE
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DETAILS
4	SITE DETAILS
5	STORM DRAIN PROFILES, SCHEDULE, DETAILS & WATER PROFILE
6	STORM DRAIN DRAINAGE AREA MAP
7	SEDIMENT CONTROL PLAN
8	SEDIMENT CONTROL NOTES & DETAILS
9	LANDSCAPE PLAN
10	FOREST CONSERVATION PLAN

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 4/20/98
Director

[Signature] 4/20/98
Chief, Division of Land Development

[Signature] 7/15/98
Chief, Development Engineering Division



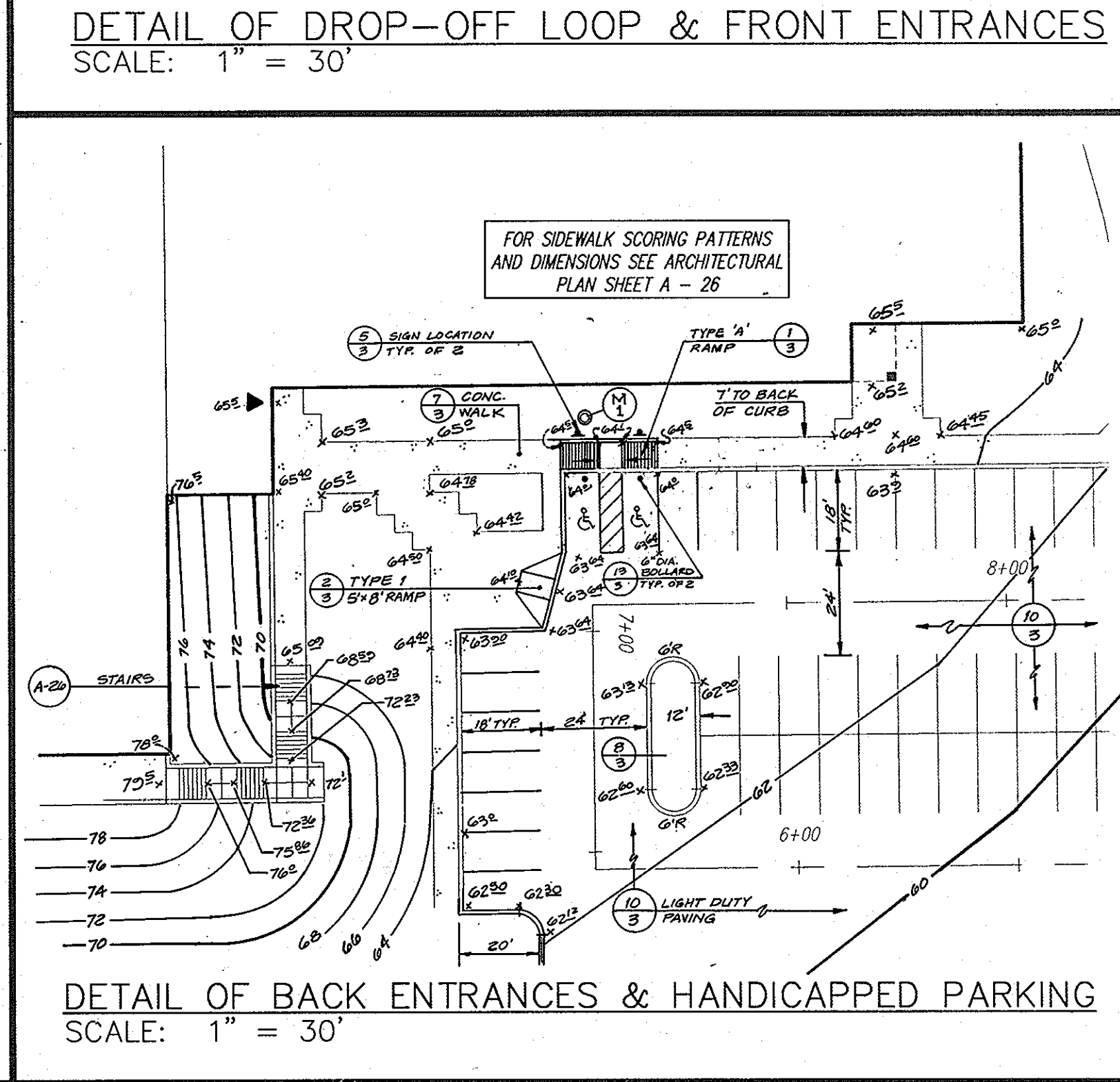
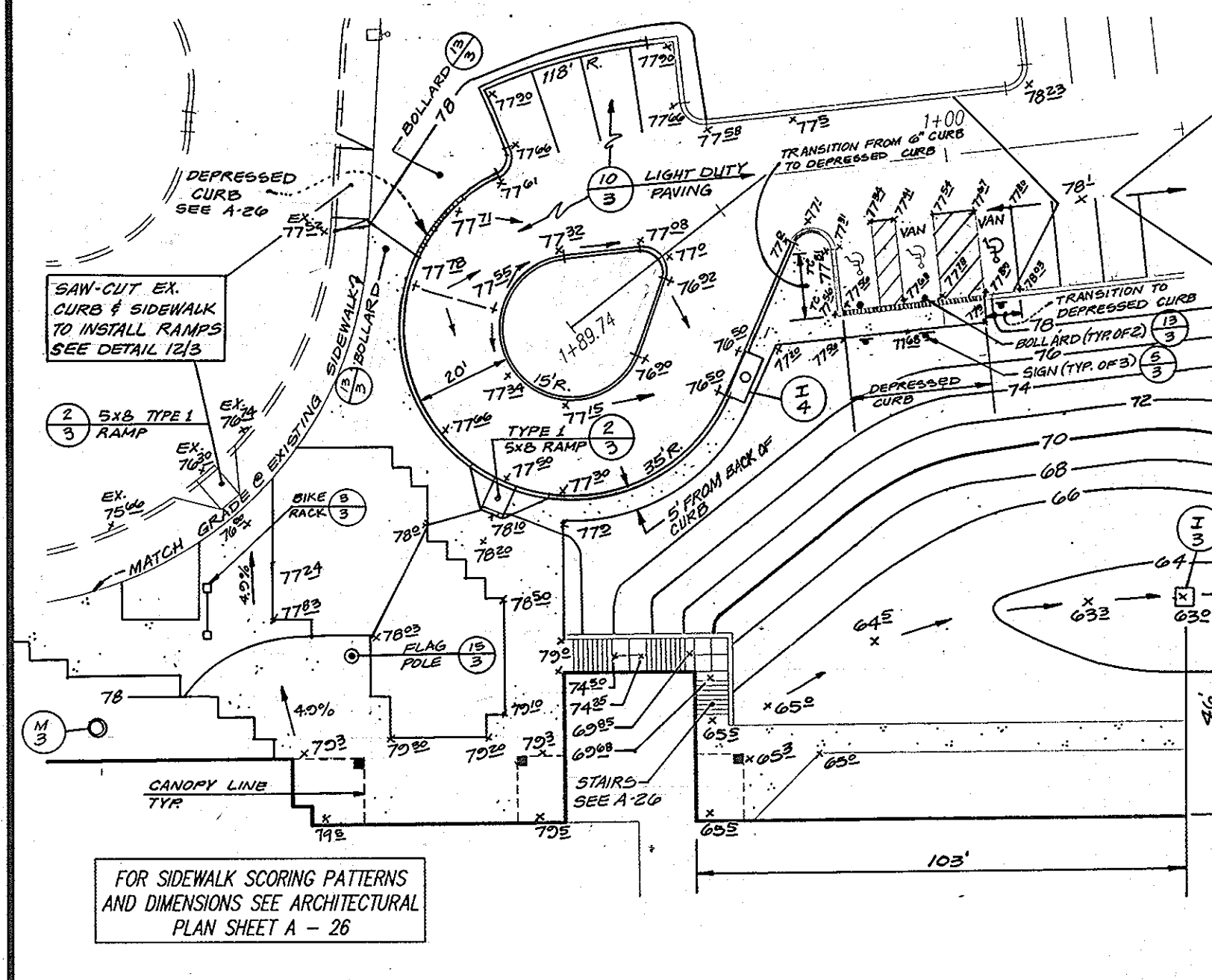
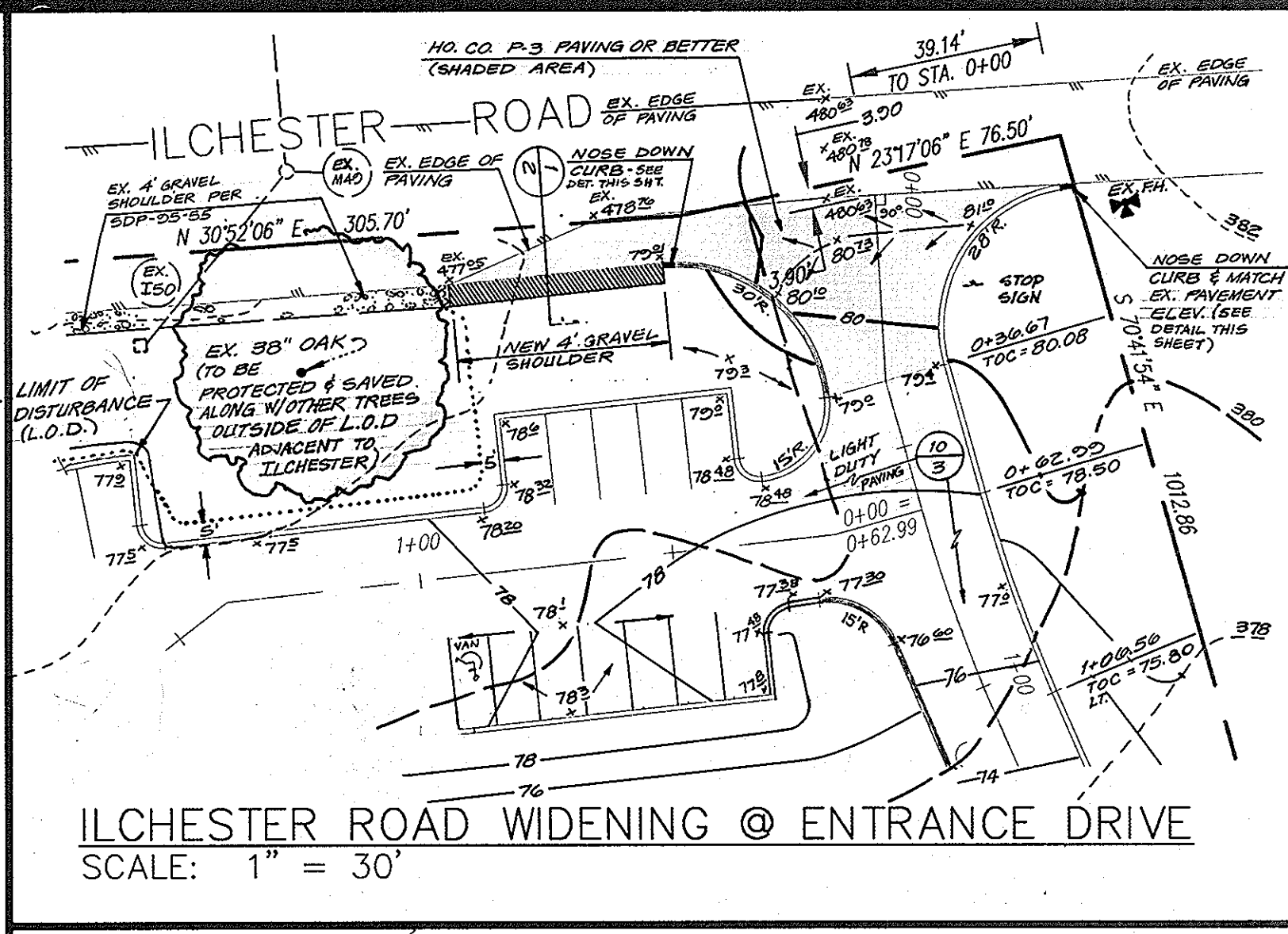
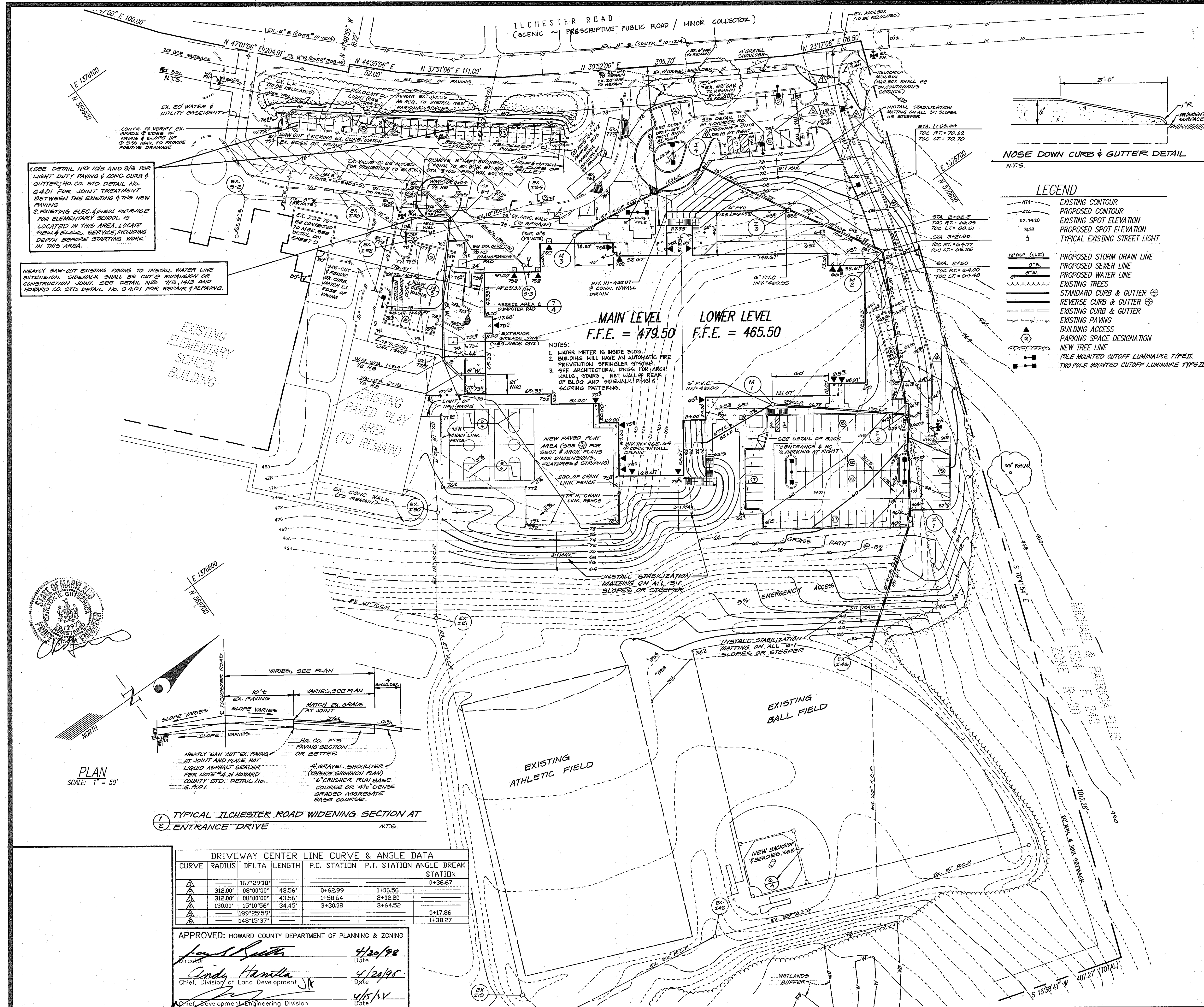
GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
2-16-99	Rev. Location Plan, Site analysis & Note 23	[Signature]	

PREPARED FOR:
HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
ATTN: BILL GRAU
PHONE: (410) 313-6751

COVER SHEET
NORTHEASTERN MIDDLE SCHOOL No. 2
PARCEL 819
L. 3322 F. 620
ELKRIDGE ELECTION DISTRICT No. 1
HOWARD COUNTY, MARYLAND

ADDRESS CHART	
PARCEL No.	STREET ADDRESS
819	1979 ILCHESTER ROAD
PERMIT INFORMATION	
SECTION/AREA	LOT/PARCELS #
3322/620	31
DATE	CROSS STREET
3/13/1998	8011.01
SCALE AS SHOWN	
SCALE	ZONING
AS SHOWN	R-20
DATE	
3/13/1998	
G. L. W. FILE No.	
96098	
TAX MAP No.	
31	
SHEET	
1 OF 10	



1. SEE DETAIL NOS 10/3 AND 8/3 FOR LIGHT DUTY PAVING & CONC. CURB & GUTTER, HO. CO. STD. DETAIL NO. G-401 FOR JOINT TREATMENT BETWEEN THE EXISTING & THE NEW PAVING.
2. EXISTING ELEC. & SIGNAL SERVICE FOR ELEMENTARY SCHOOL IS LOCATED IN THIS AREA. LOCATE & SERVICE, INCLUDING DEPTH BEFORE STARTING WORK IN THIS AREA.

NEATLY SAW-CUT EXISTING PAVING TO INSTALL WATER LINE EXTENSION. SIDEWALK SHALL BE CUT & EXPANSION OR CONSTRUCTION JOINT. SEE DETAIL NOS 7/13, 14/13 AND HOWARD CO. STD. DETAIL NO. G-401 FOR REPAIR & FINISHING.

EXISTING ELEMENTARY SCHOOL BUILDING

MAIN LEVEL
F.F.E. = 479.50

LOWER LEVEL
F.F.E. = 465.50

- NOTES:
1. WATER METER IS INSIDE BLDG.
 2. BUILDING WILL HAVE AN AUTOMATIC FIRE PREVENTION SPRINKLER SYSTEM.
 3. SEE ARCHITECTURAL PHOS FOR ARCH WALLS, STAIRS - RET WALL @ REAR OF BLDG. AND SIDEWALK PHOS & SCORING PATTERNS.

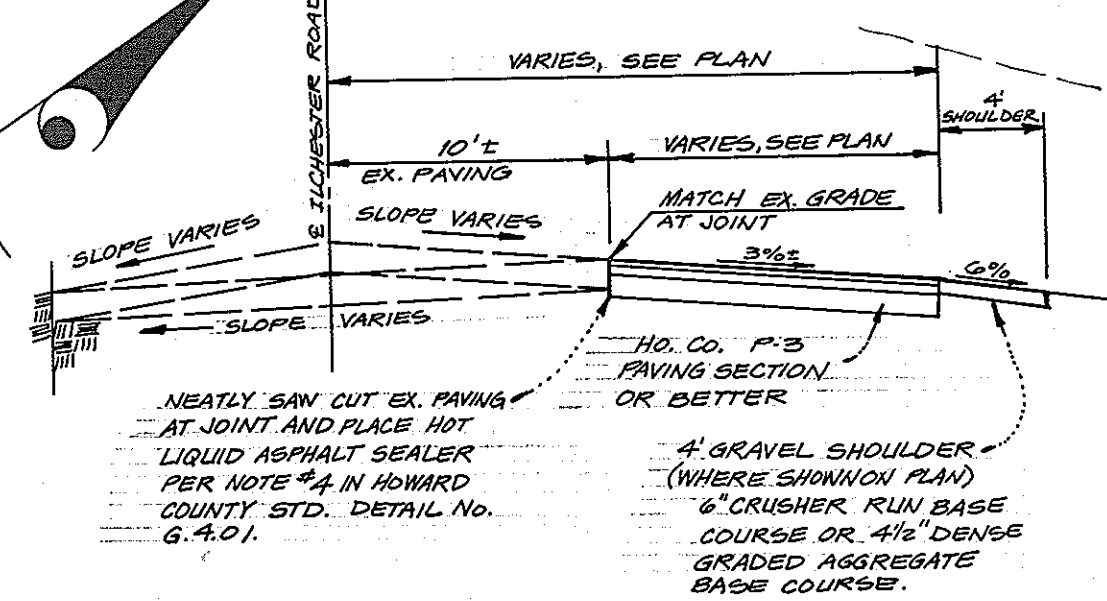
NEW PLAY AREA (SEE ③ FOR SECT. & ARCH. PLANS FOR DIMENSIONS, FEATURES & STRIPING)

END OF CHAIN LINK FENCE

EXISTING BALL FIELD

EXISTING ATHLETIC FIELD

NEW BACKSLOPE BENCHES (SEE ④)



DRIVEWAY CENTER LINE CURVE & ANGLE DATA						
CURVE	RADIUS	DELTA	LENGTH	P.C. STATION	P.T. STATION	ANGLE BREAK STATION
1	167'29"18"	43.56°	43.56'	0+62.99	1+06.56	0+36.67
2	312.00'	08°00'00"	43.56'	1+58.64	2+02.20	
3	1300.00'	15°10'56"	34.45'	3+38.08	3+64.52	
4	189'25"59"					0+17.86
5	148'15"37"					1+38.27

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Ken S. Smith 4/20/98
Director

Andy Hamilton, Jr. 4/20/98
Chief, Division of Land Development

[Signature] 4/15/98
Chief, Development Engineering Division

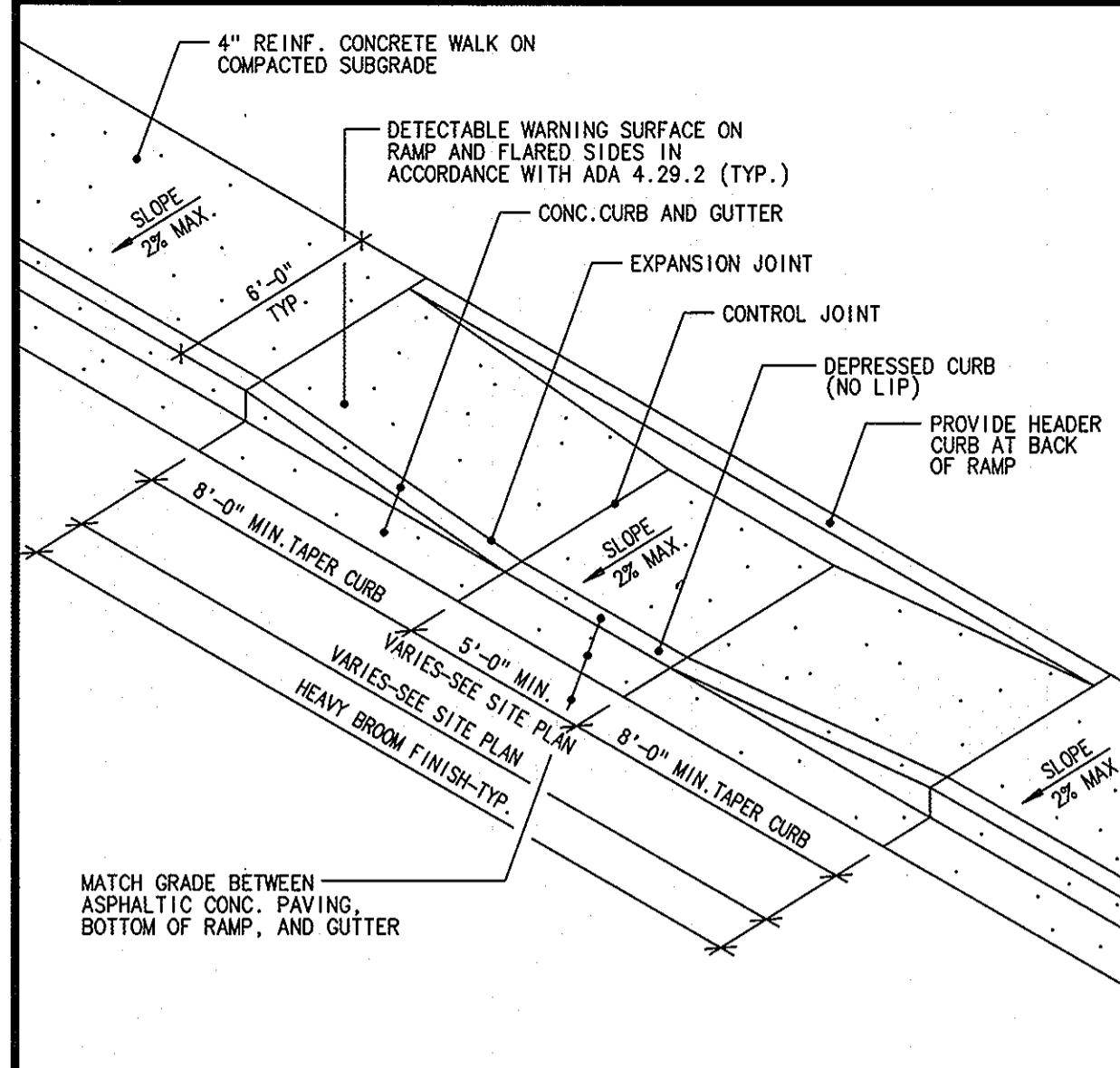
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BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-889-2524 FAX: 301-421-4186

DES.	DRN.	CHK.	DATE	REVISION	BY	APPR.
			2-10-97	ADDED 10' PARKING SPACES & ASSOCIATED NOTES & LABELS	WGL	

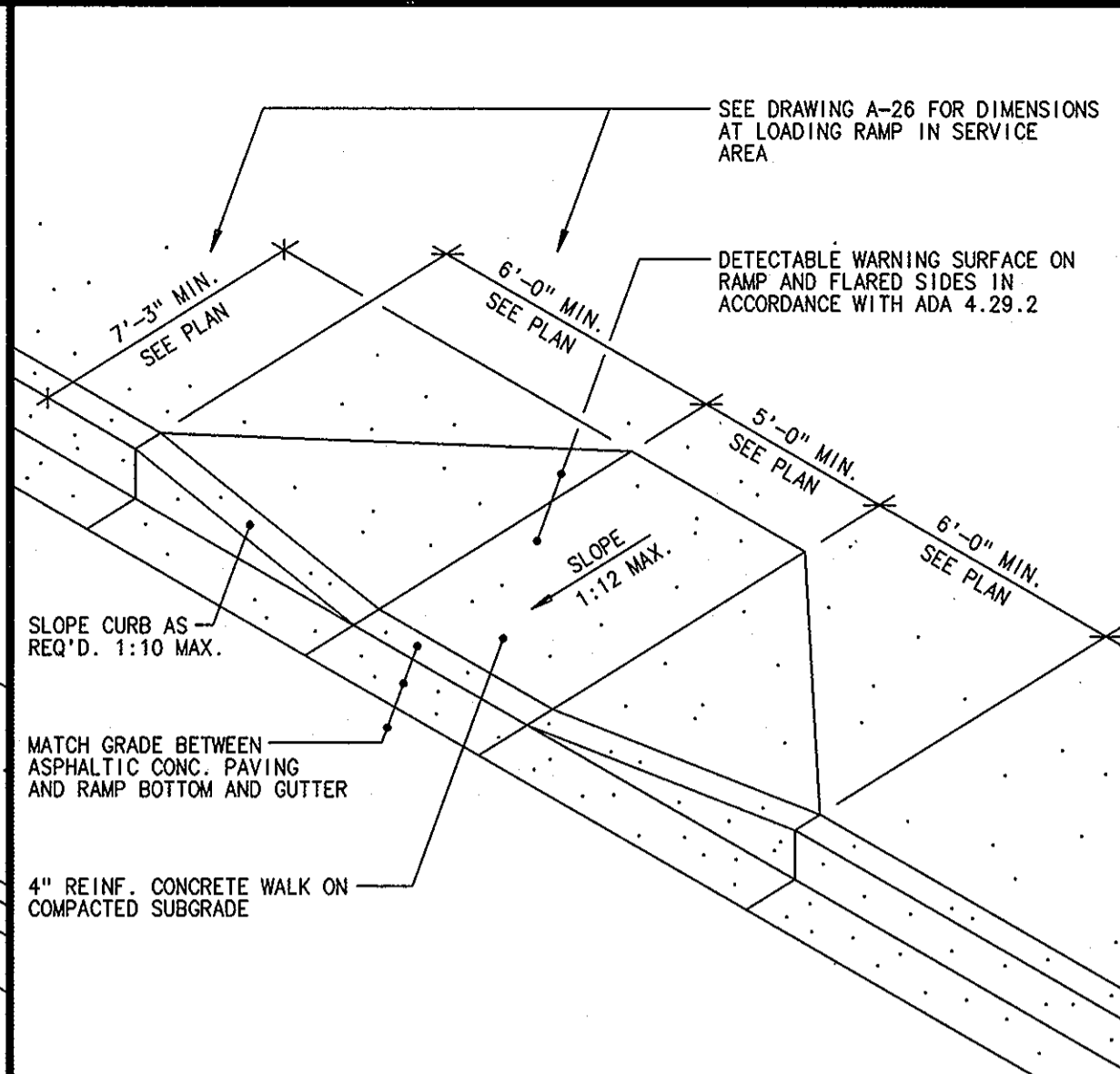
PREPARED FOR:
HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043
ATTN: BILL GRAU
PHONE: (410) 313-6751

SITE DEVELOPMENT PLAN
NORTHEASTERN MIDDLE SCHOOL No. 2
PARCEL 819
L. 3322 F. 620
ELKRIDGE ELECTION DISTRICT No. 1
HOWARD COUNTY, MARYLAND

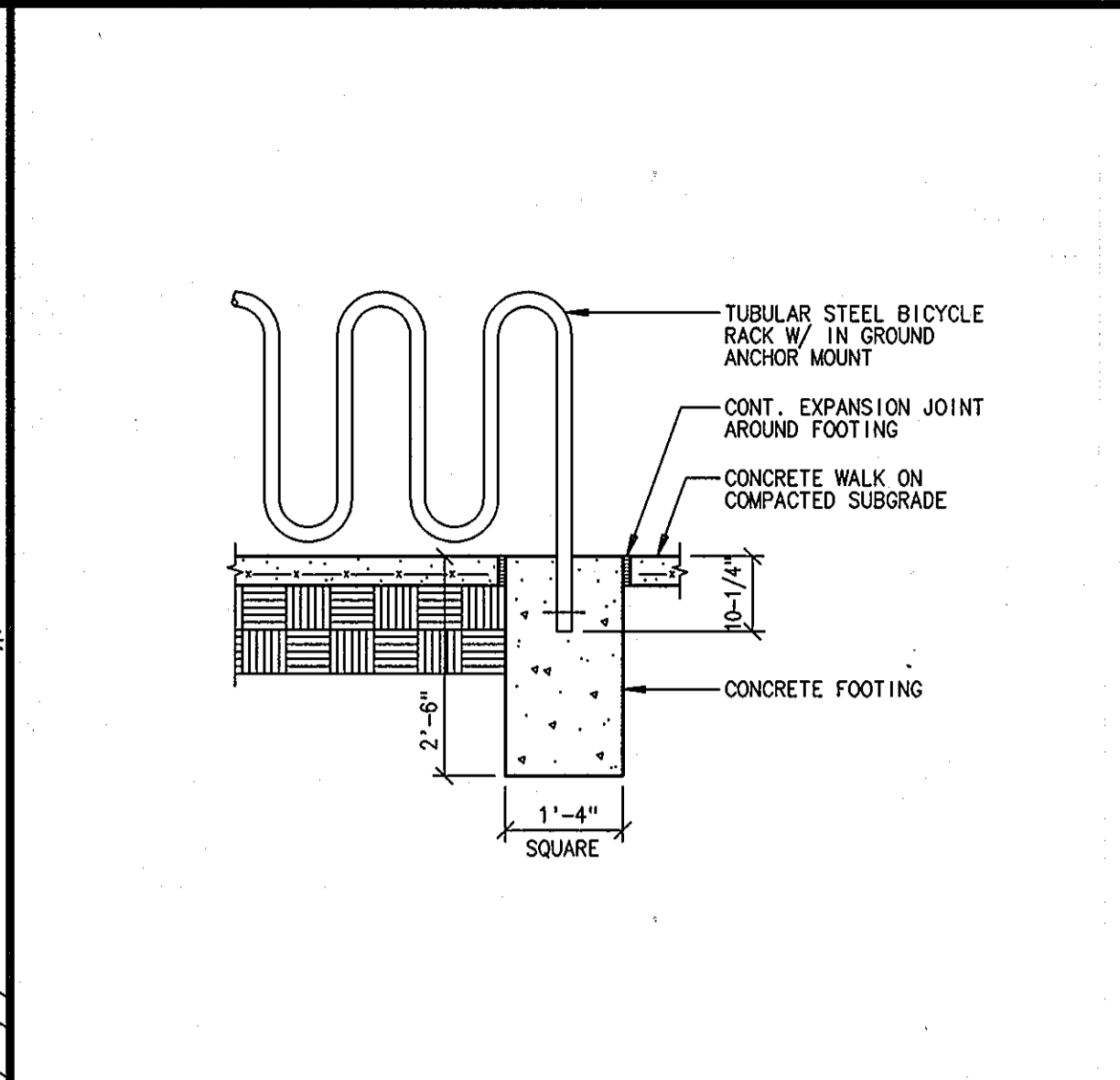
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AS SHOWN	R-20	96098
DATE	TAX MAP No.	SHEET
3/12/1998	31	2 OF 10



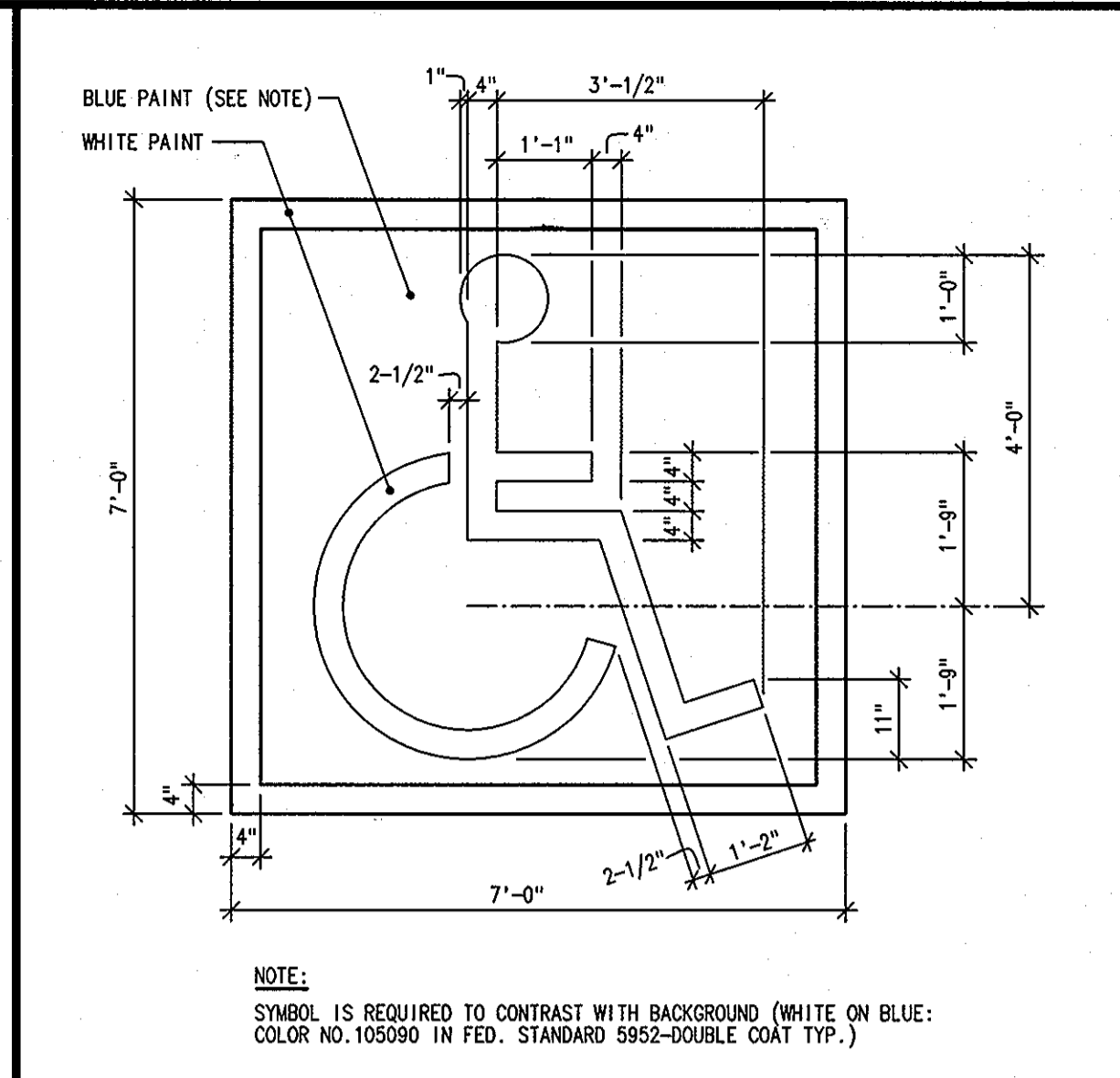
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3 TYPE A CURB RAMP DETAIL NO SCALE



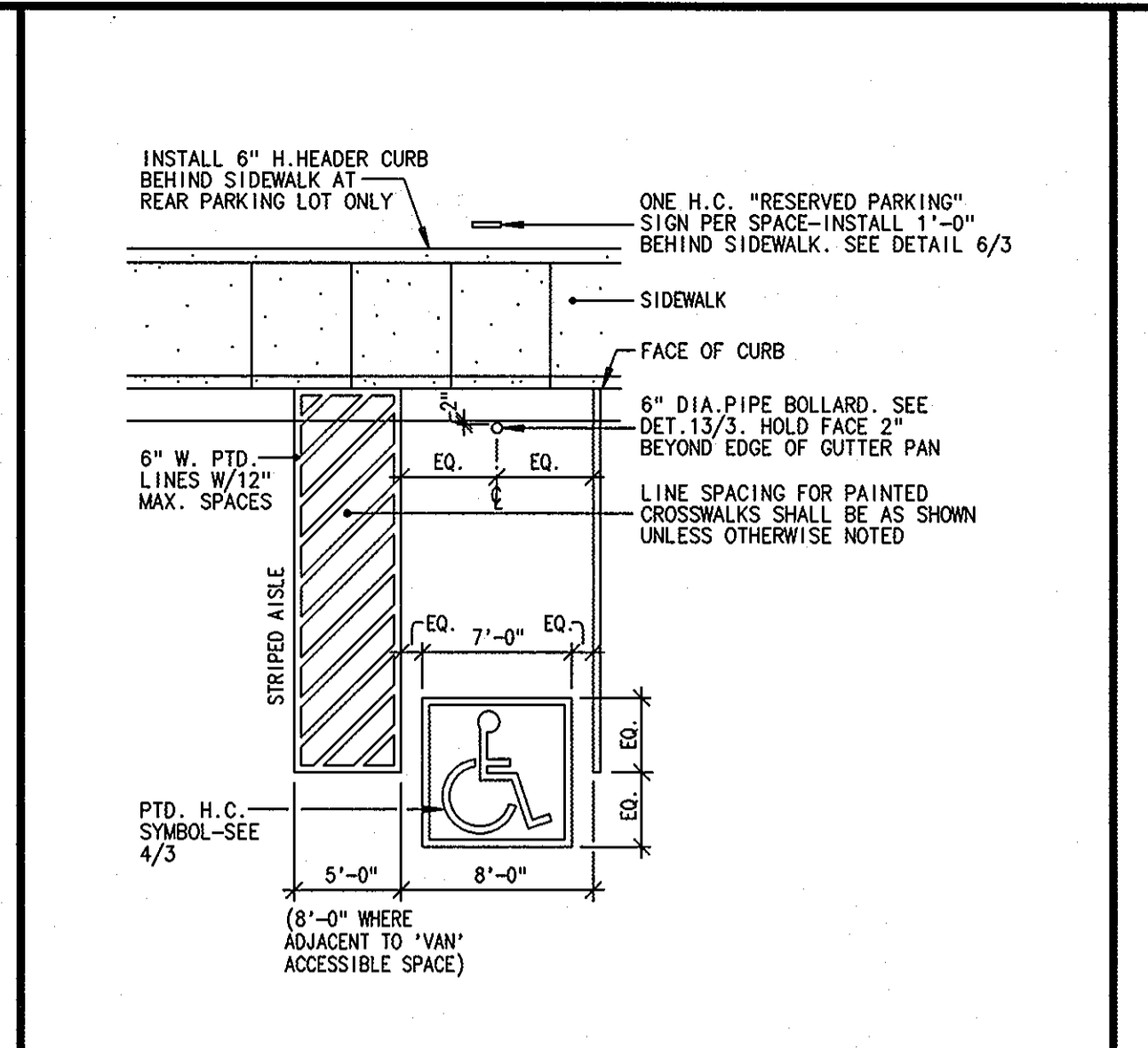
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3 TYPE 1 CURB RAMP DETAIL NO SCALE



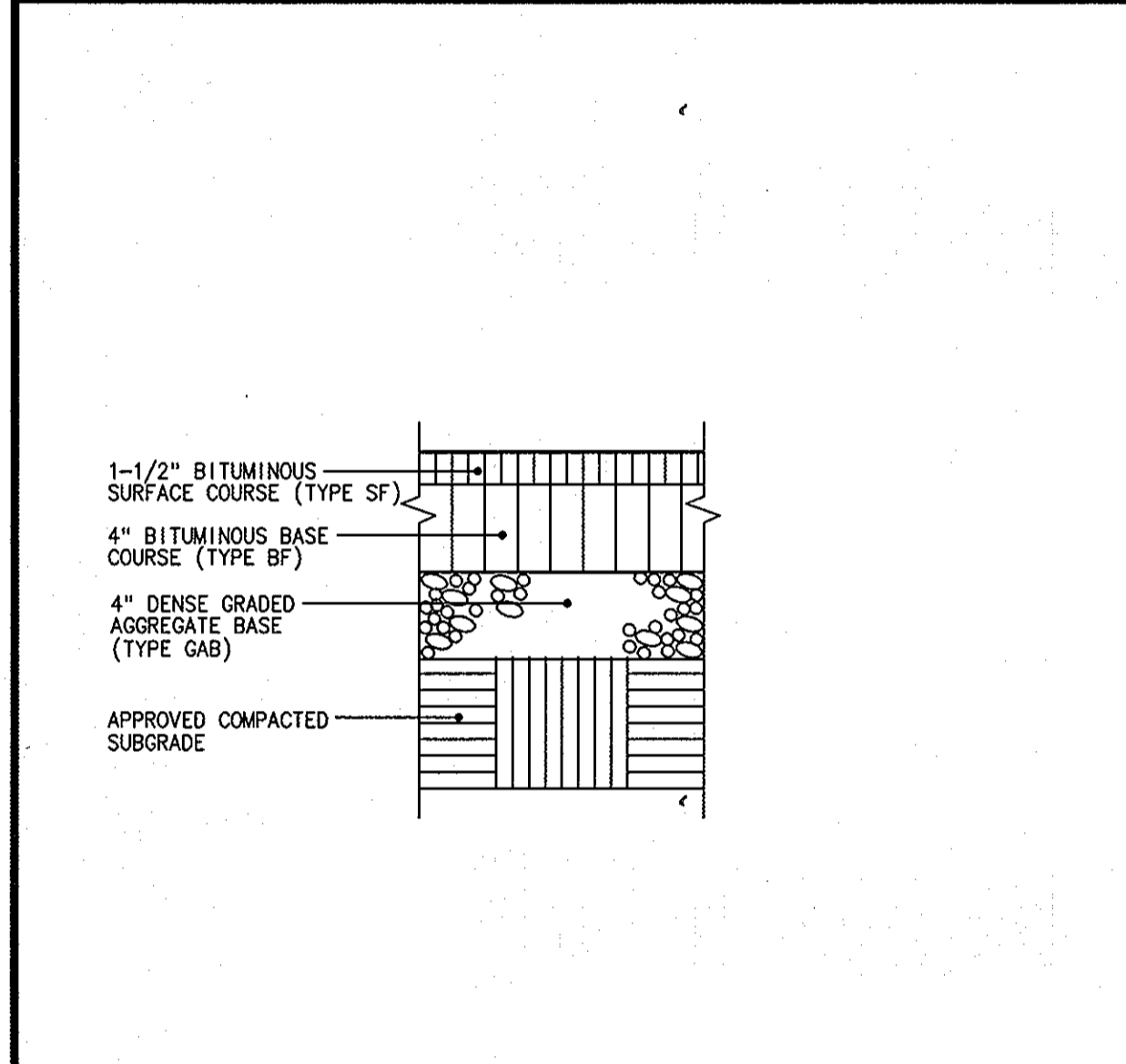
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3 BICYCLE RACK DETAIL 1 1/2 2



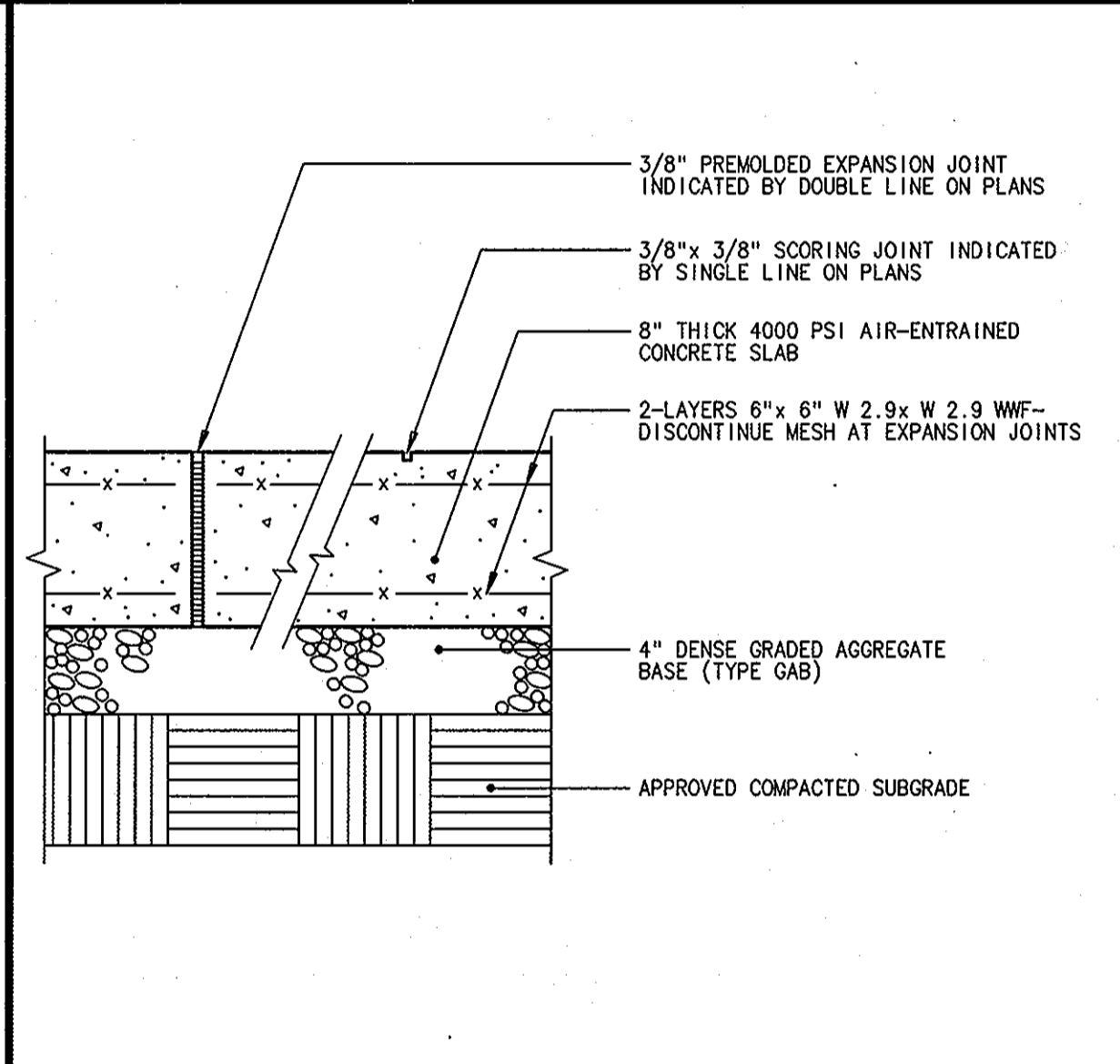
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3 ACCESSIBLE SPACE STENCIL LAYOUT 1 1/2 2



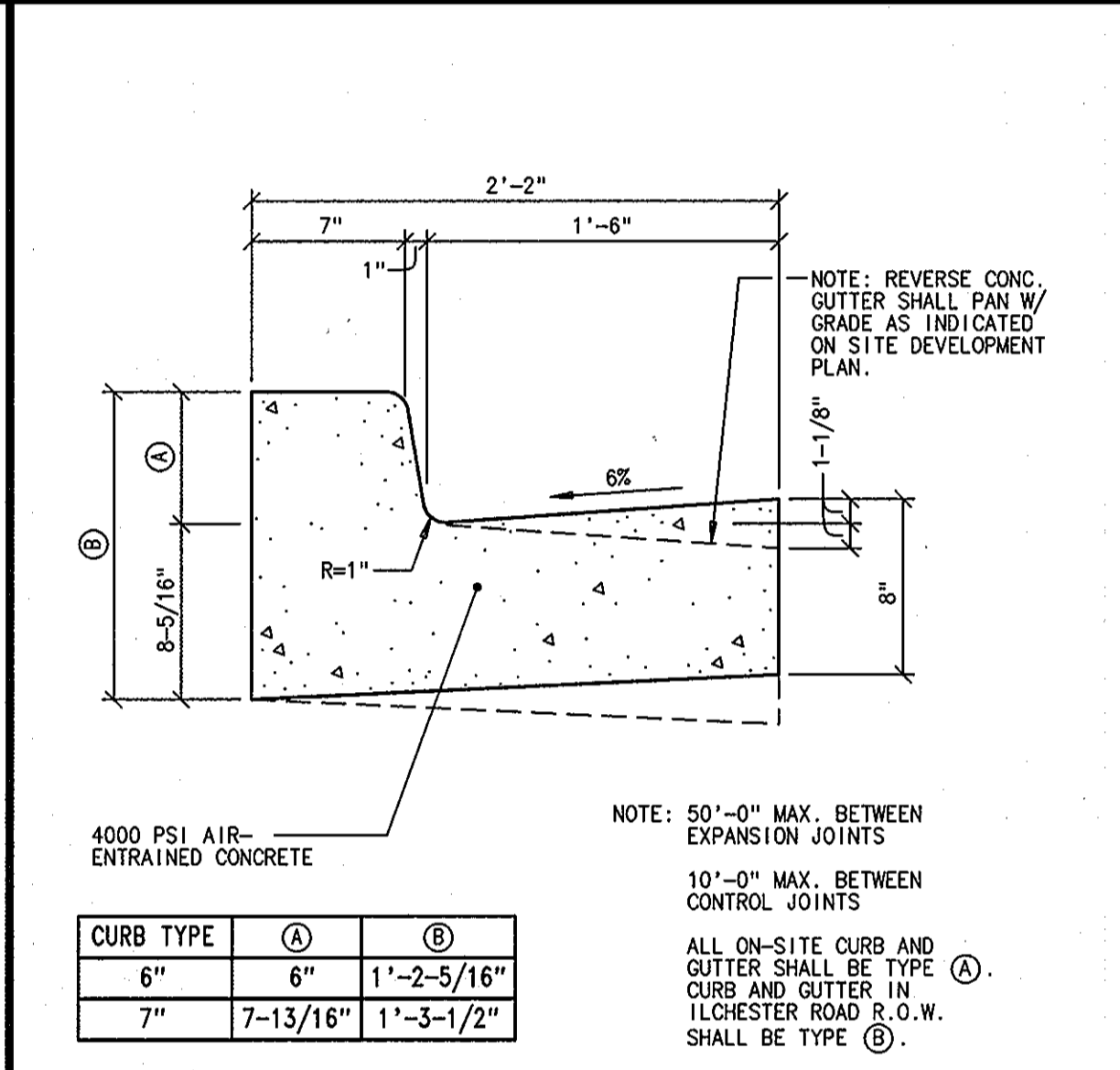
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3 ACCESSIBLE SPACE LAYOUT 1 1/2 8



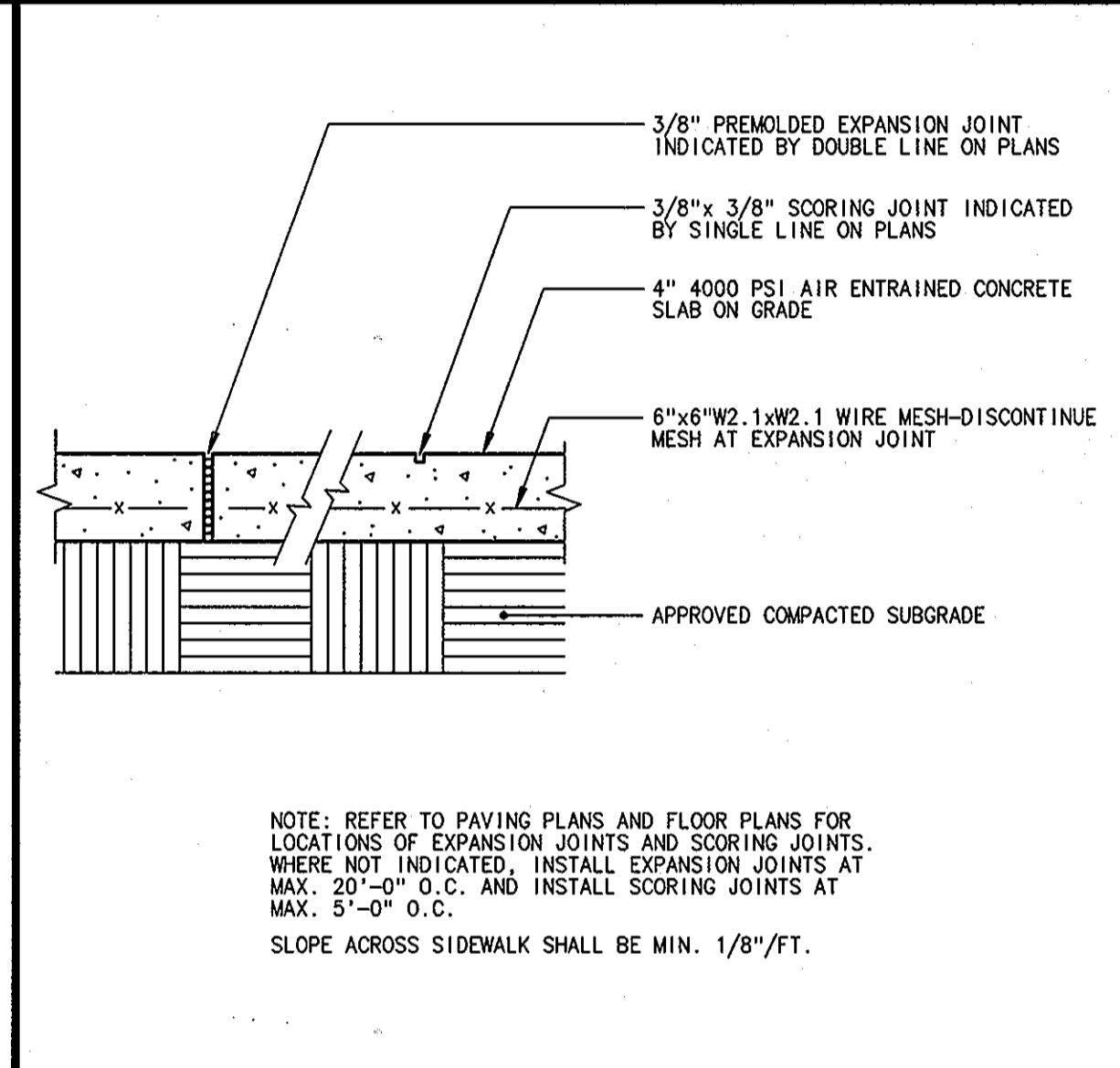
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3 LIGHT DUTY PAVEMENT DETAIL 1 1/2 9



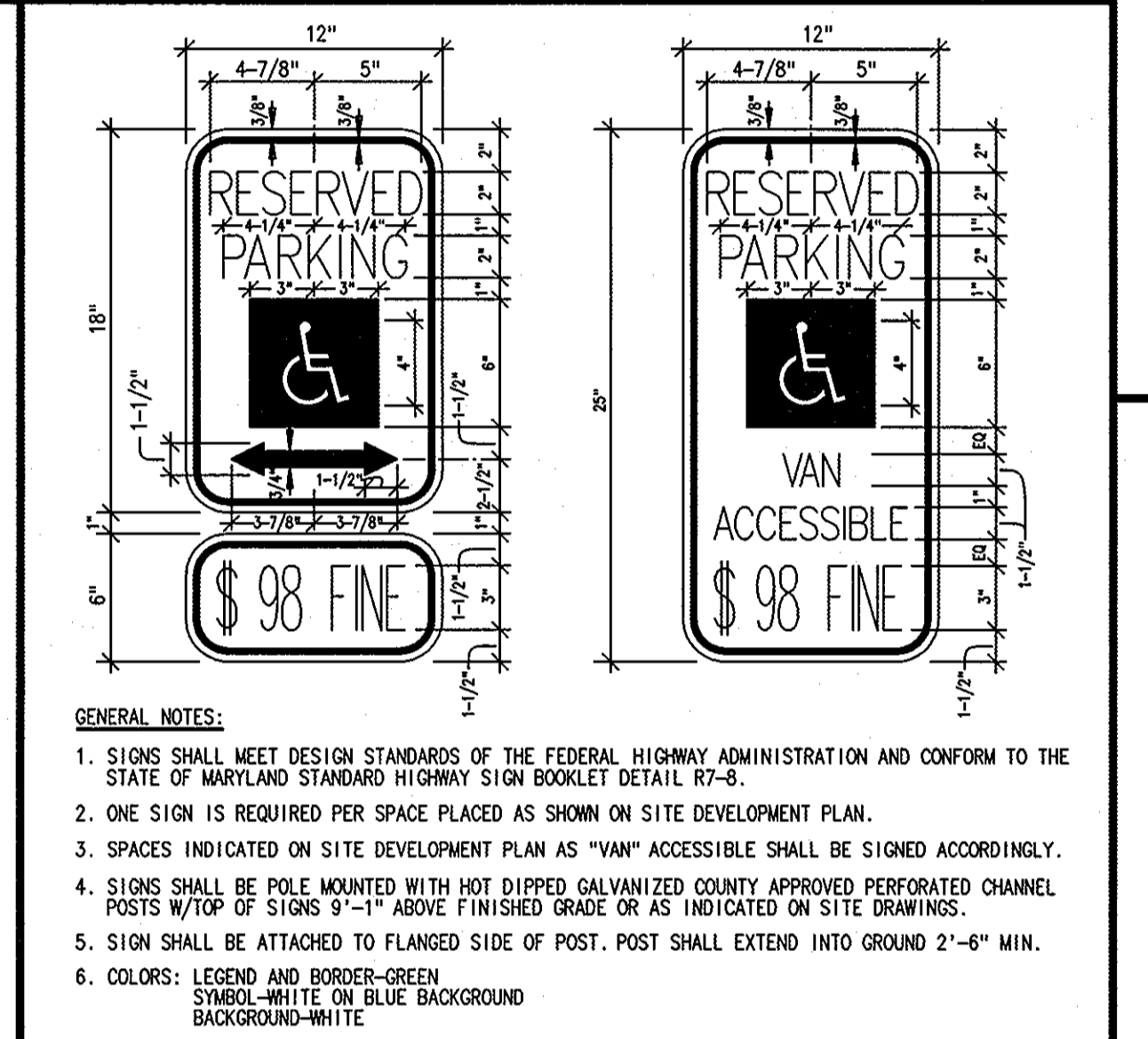
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3 SERVICE AREA CONCRETE PAVING 1 1/2 8



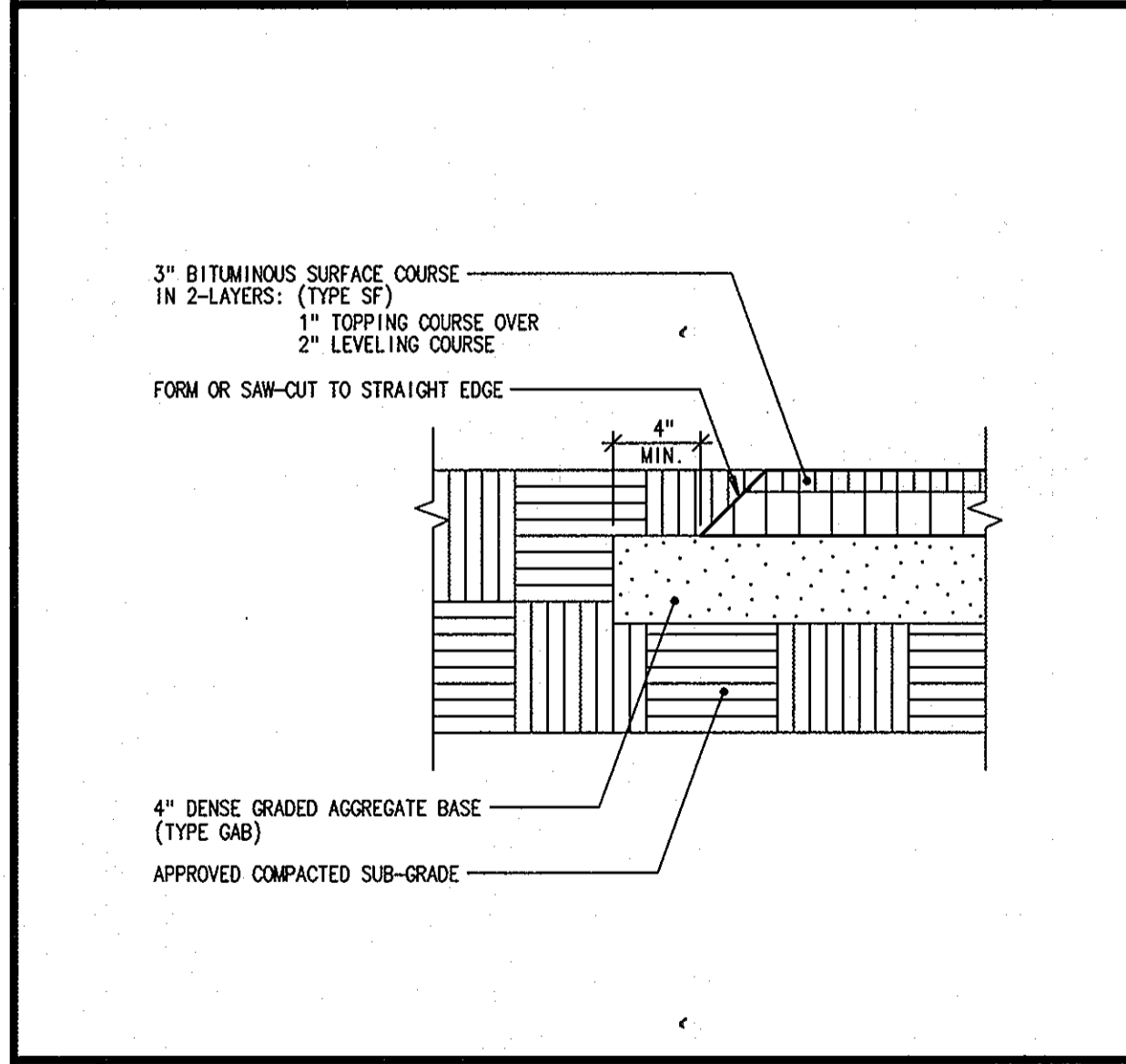
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3 CONCRETE CURB AND GUTTER 1 1/2 7



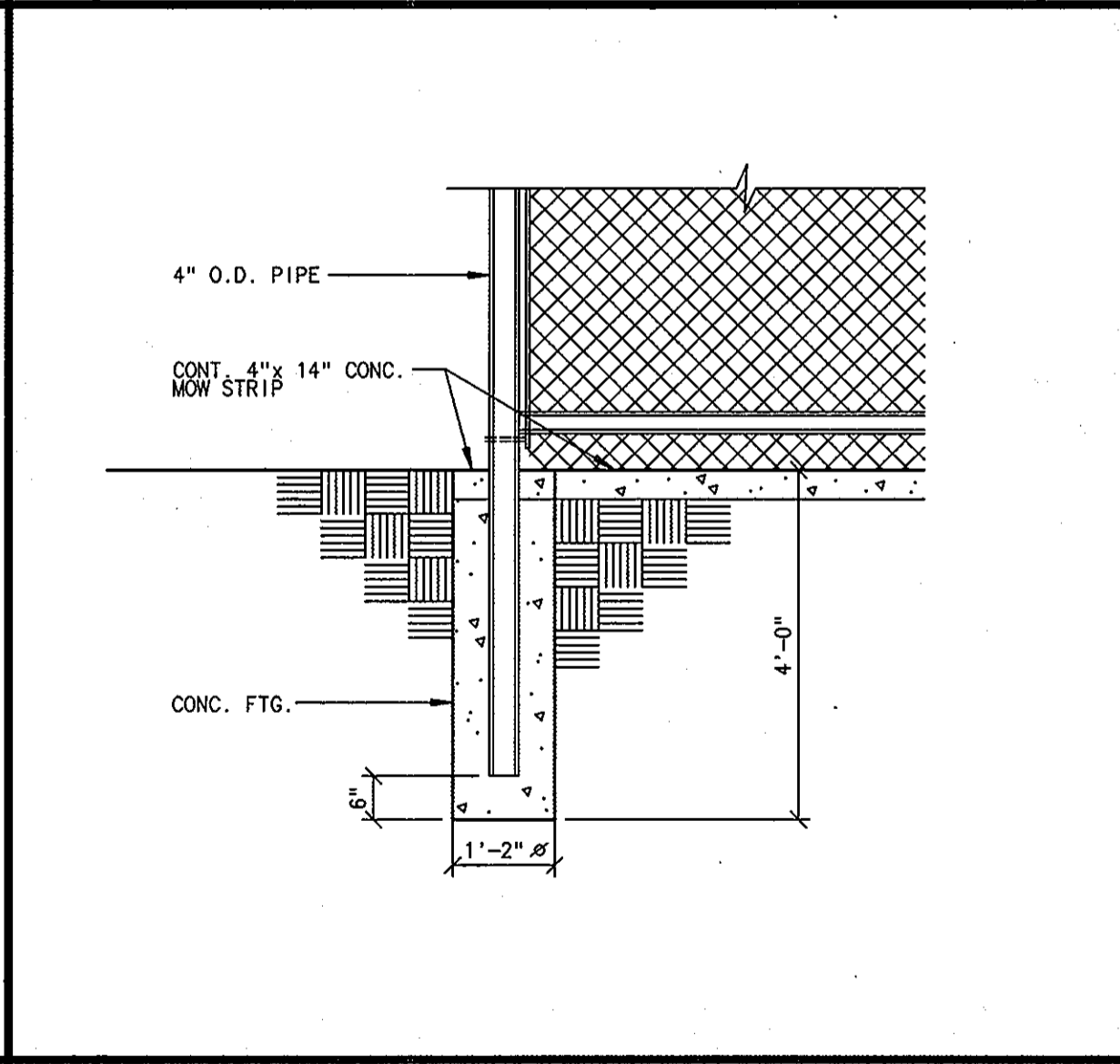
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3 CONCRETE WALK DETAIL 1 1/2 6



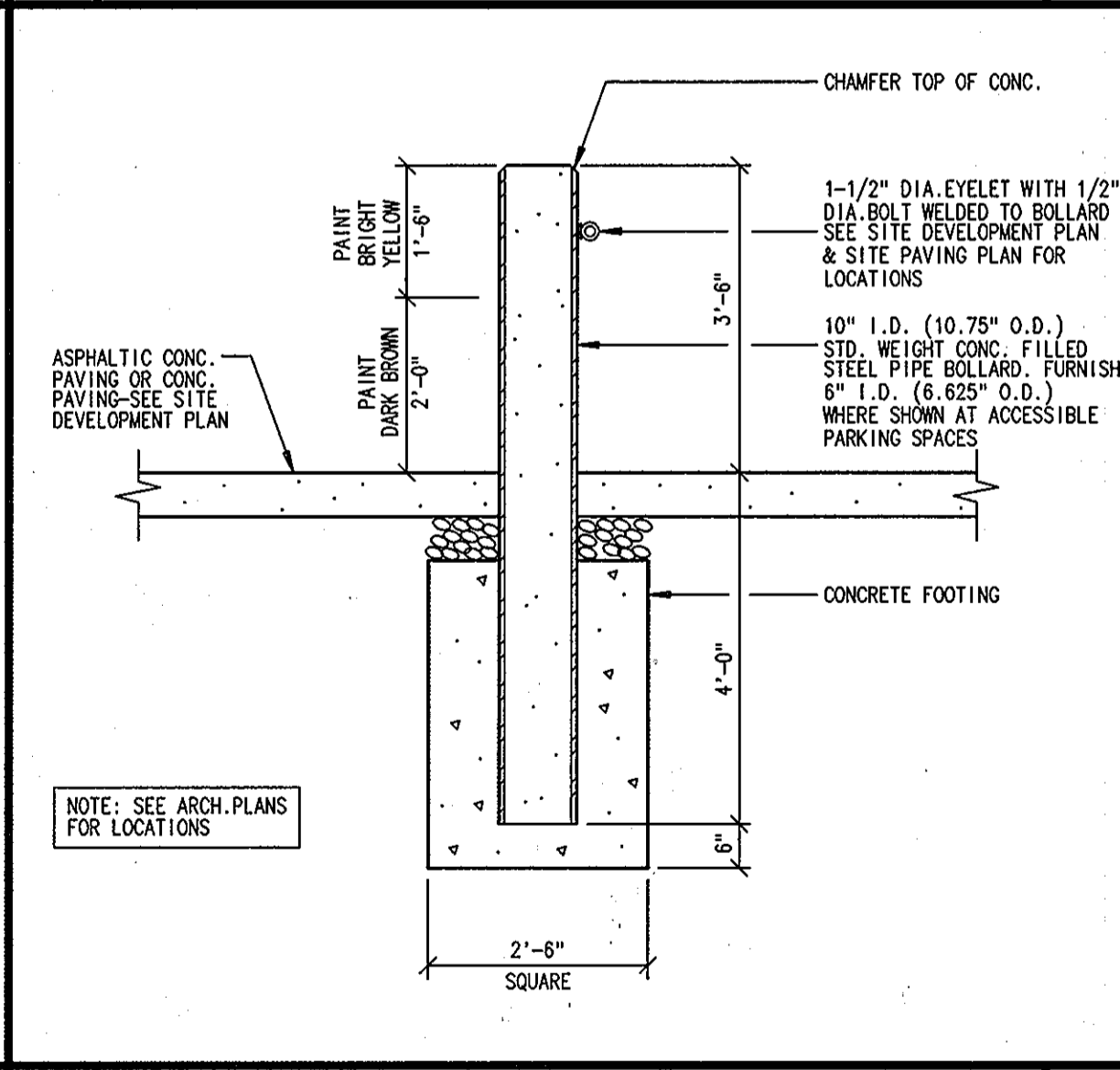
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3 HANDICAP PARKING SIGNS DETAIL NO SCALE



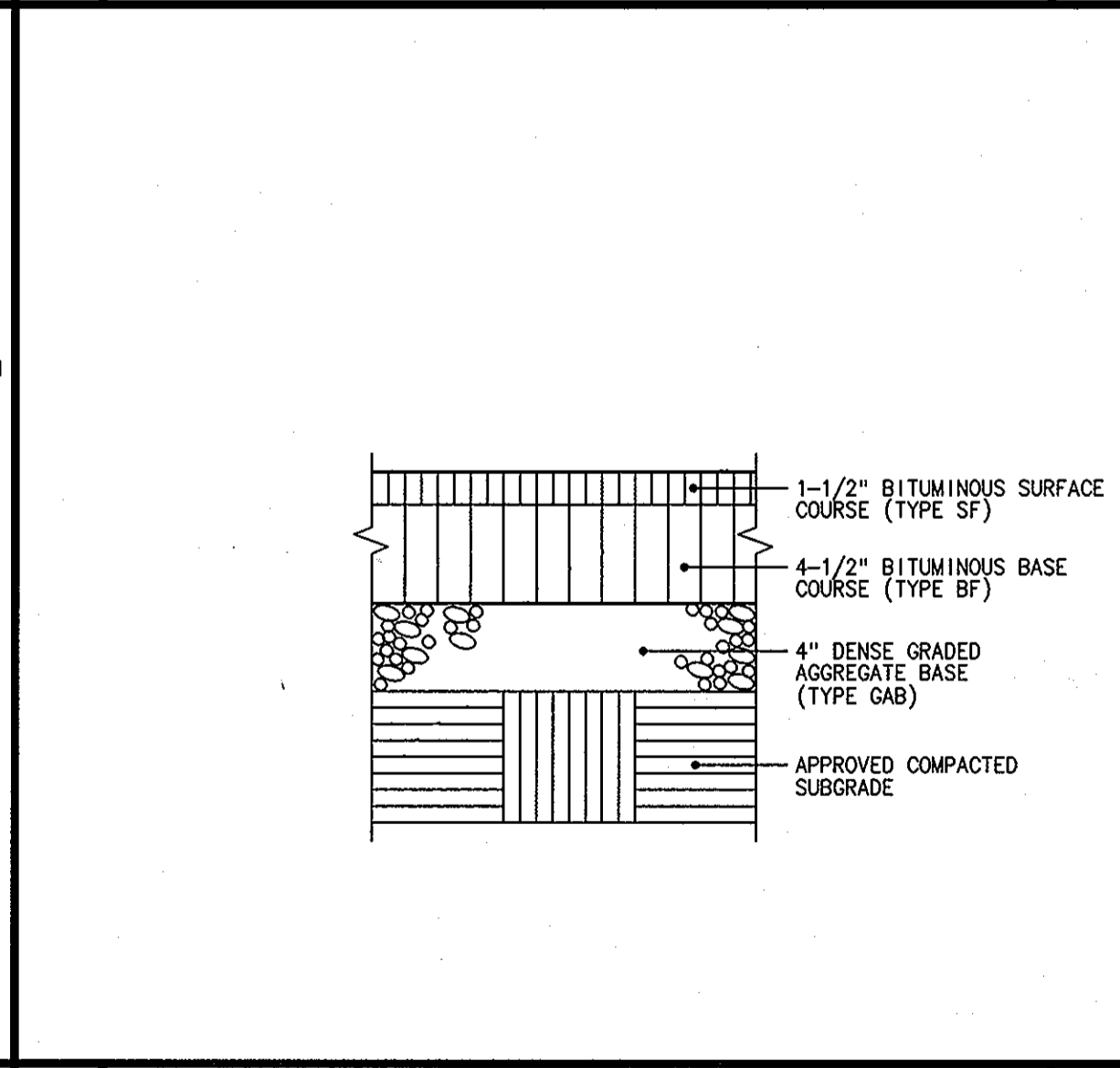
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3 PAVED PLAY AREA PAVEMENT DETAIL 1 1/2 12



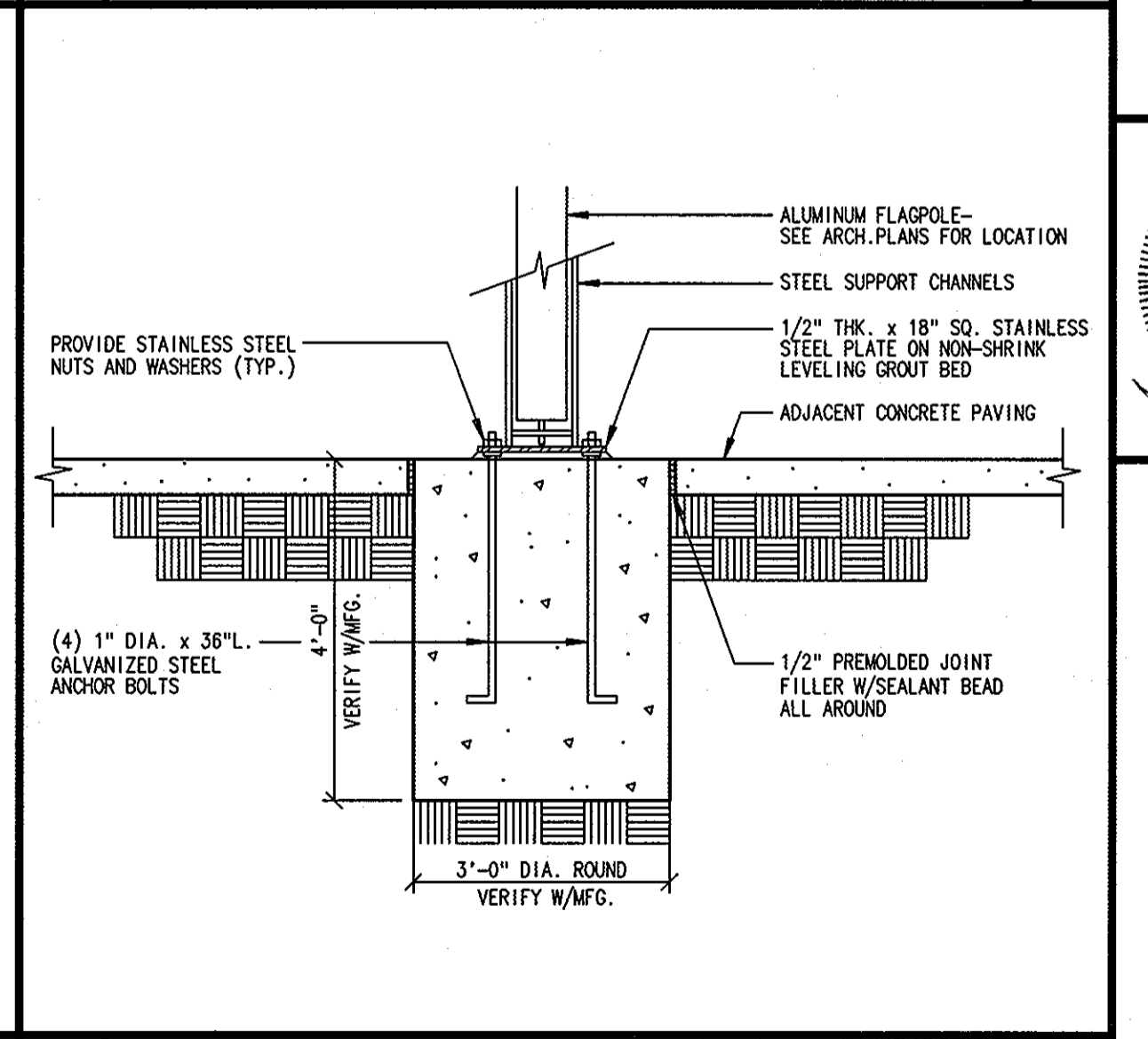
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3 BACKSTOP FOOTING DETAIL 1 1/2 13



13
3 PIPE BOLLARD DETAIL 1 1/2 14



14
3 HEAVY DUTY PAVEMENT DETAIL 1 1/2 15



15
2 TILT FLAGPOLE DETAIL 1 1/2

<p>TCA ARCHITECTS 2651 RIVA ROAD SUITE 120 ANNAPOLIS, MARYLAND 21401 410-841-8205</p>		<p>APPROVED: DEPARTMENT OF PLANNING AND ZONING</p> <p>Director: <i>[Signature]</i> DATE: 4/20/98</p> <p>Chief, Division of Land Development: <i>[Signature]</i> DATE: 7/20/98</p> <p>Chief, Development Engineering Division: <i>[Signature]</i> DATE: 4/15/98</p>	
<p>OWNER HOWARD COUNTY PUBLIC SCHOOL SYSTEM 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043</p>		<p>SITE DETAILS</p> <p>NORTHEASTERN MIDDLE SCHOOL NO. 2</p> <p>TAX MAP NO: 31 PARCEL: 819 1ST ELECTION DISTRICT: HOWARD COUNTY, MARYLAND SCALE: AS SHOWN</p>	

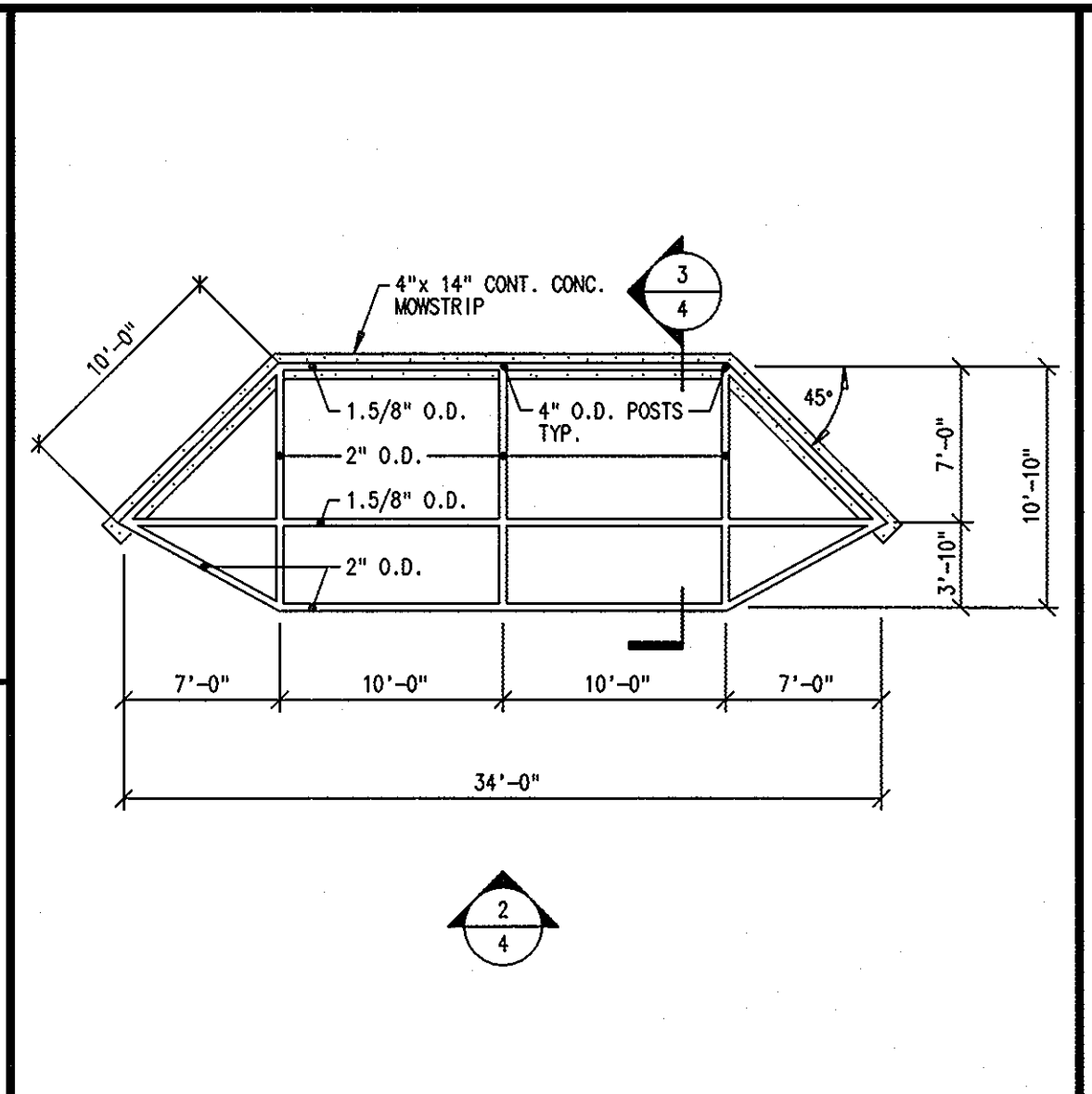
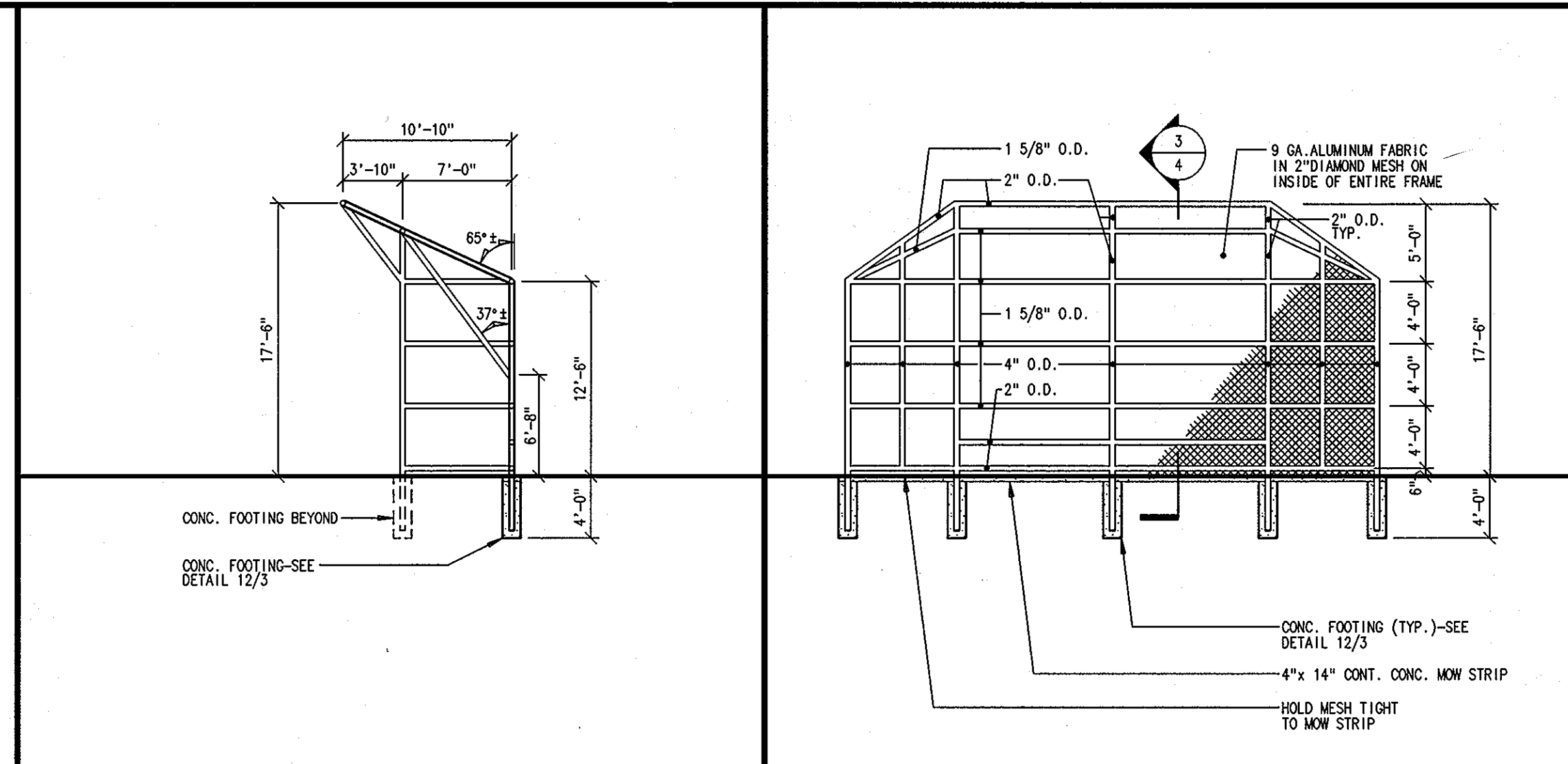
NORTHEASTERN MIDDLE SCHOOL NO. 2
Howard County, Maryland
Howard County Public School System



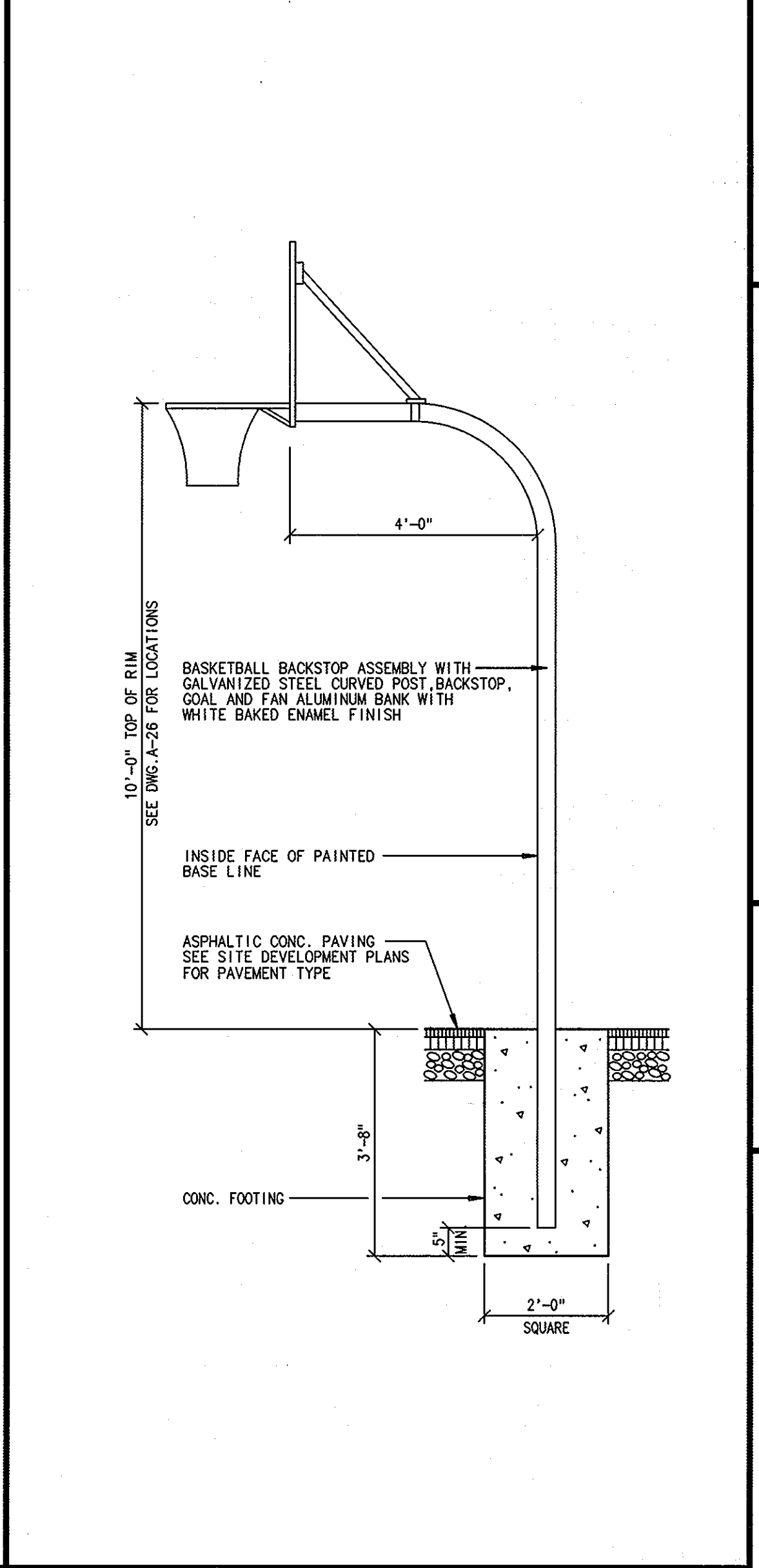
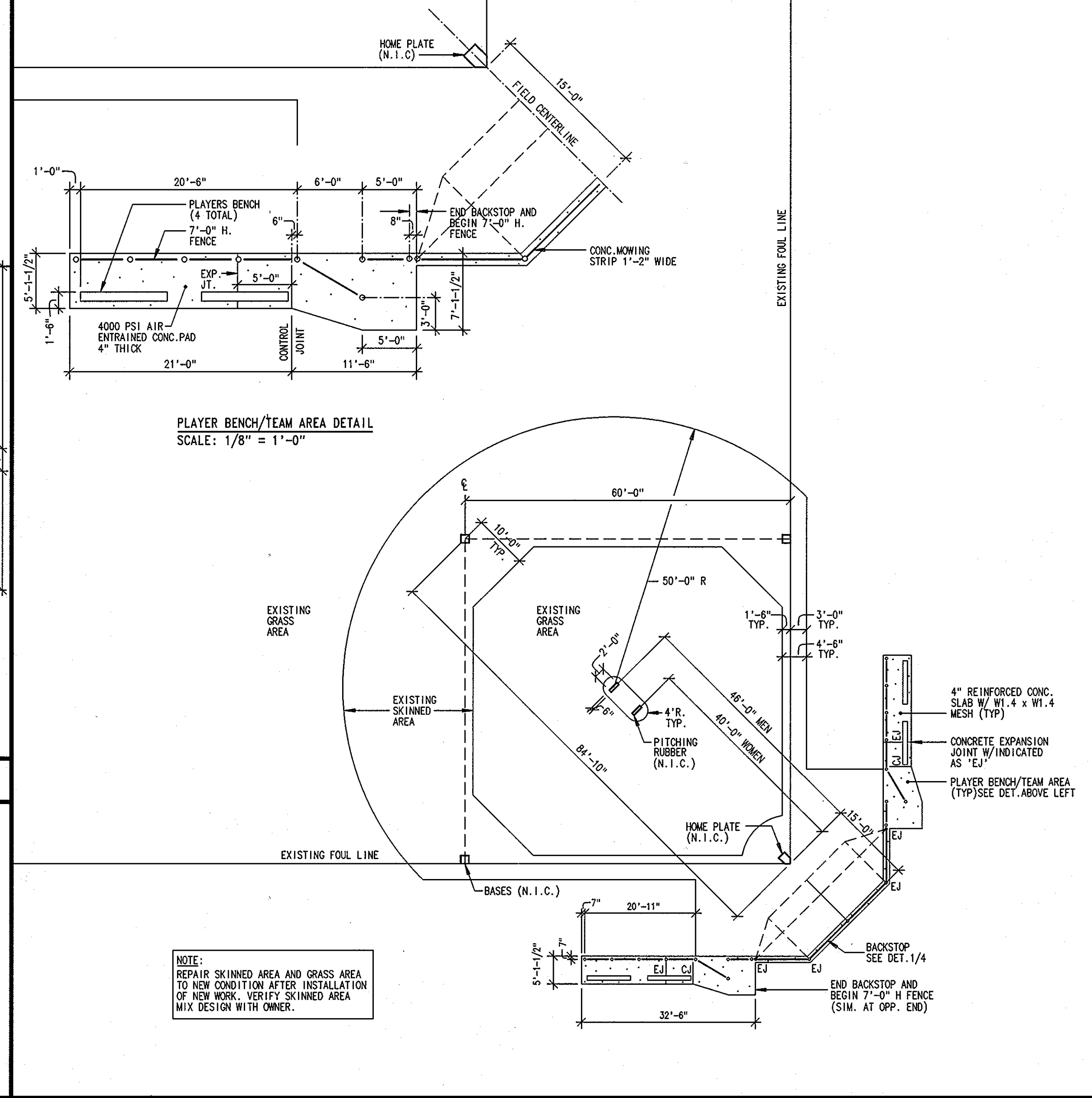
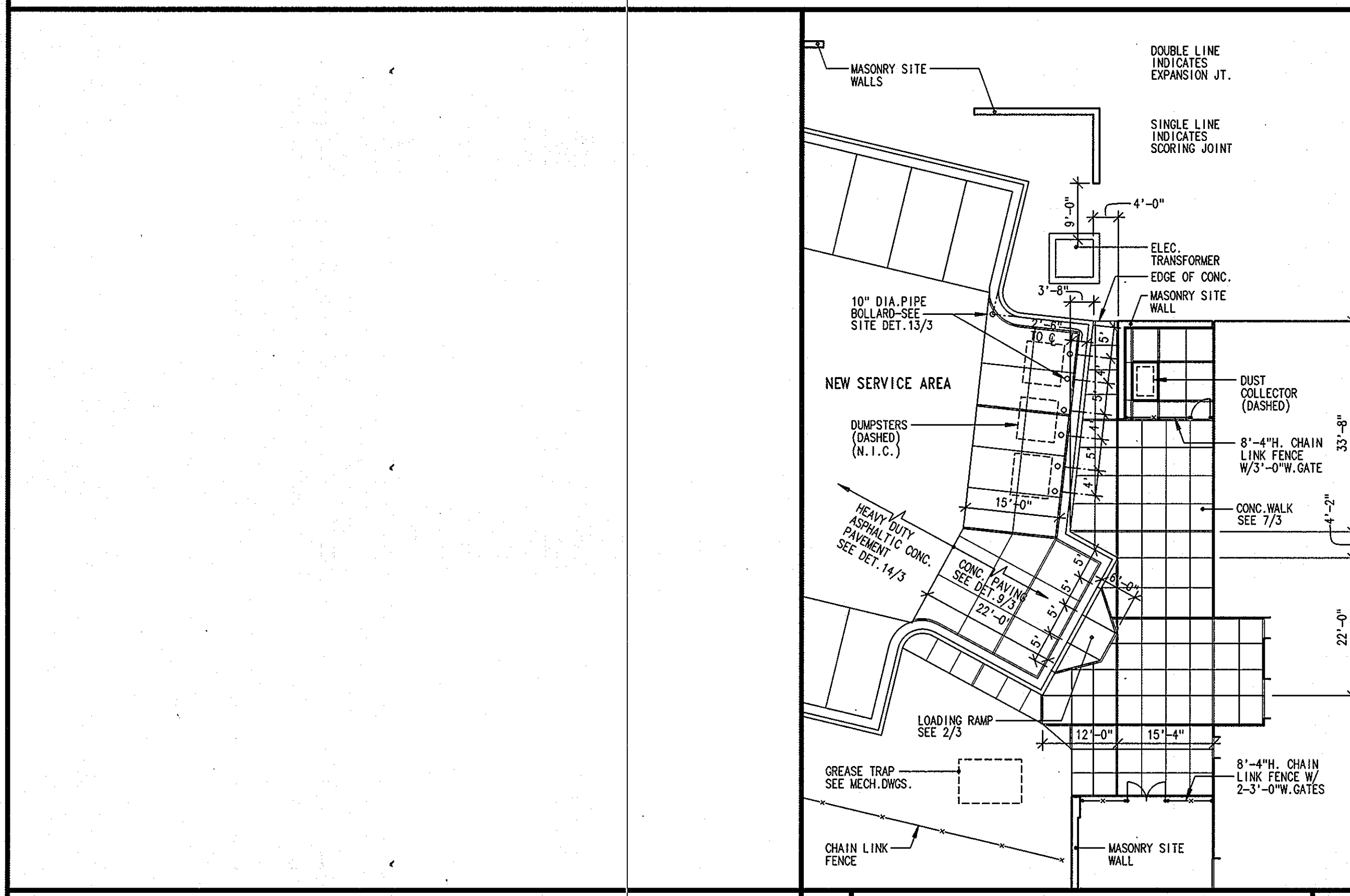
BID & CONSTRUCTION
17 MARCH 98

3 of 10

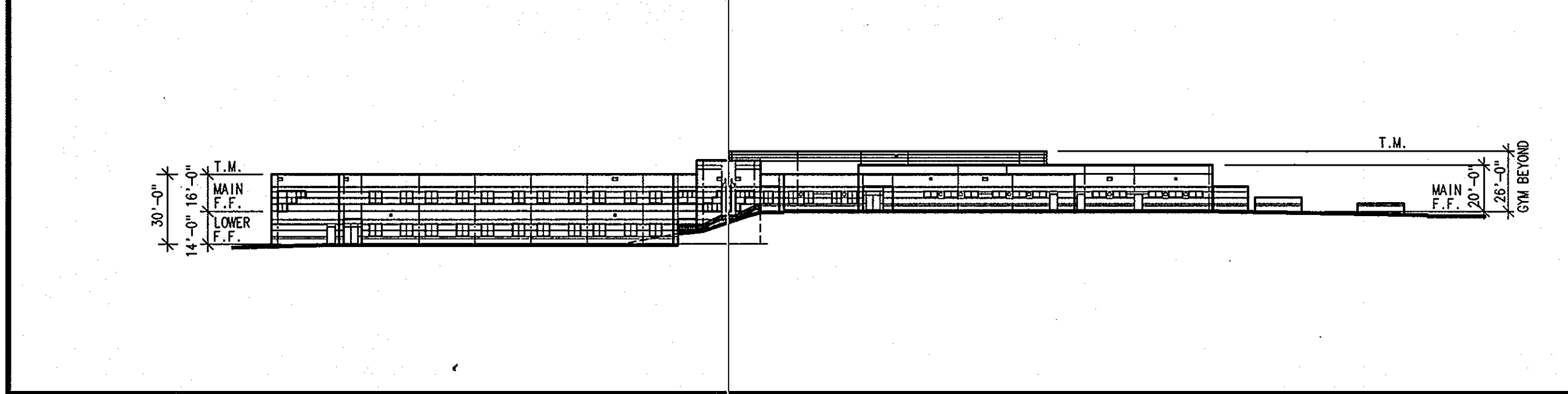
4 OF 93
project no. 9604
SDP-98-85



3/4 SOFTBALL BACKSTOP SECTION 1/8 2/4 SOFTBALL BACKSTOP ELEVATION 1/8 1/4 SOFTBALL BACKSTOP PLAN 1/8

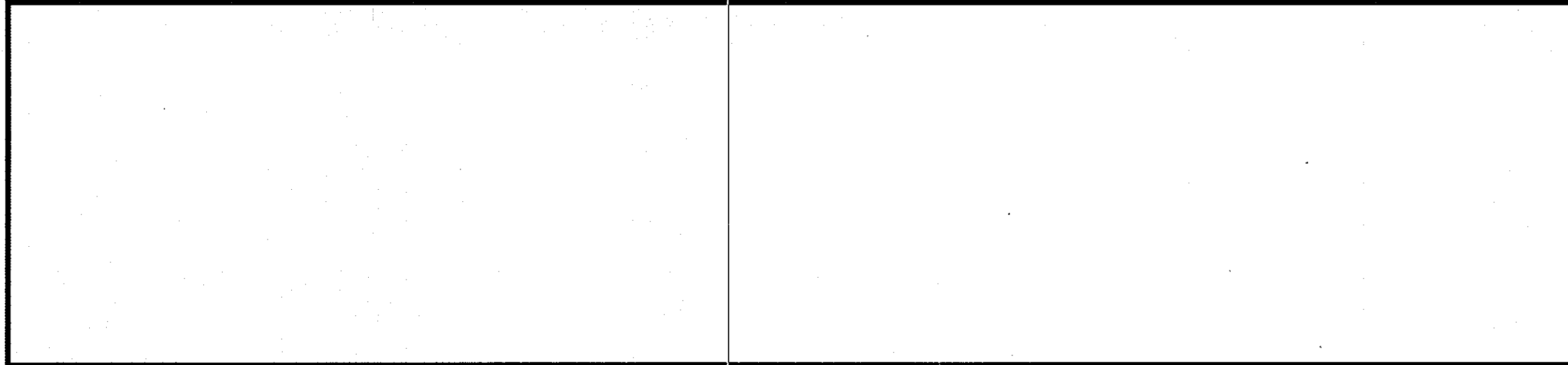


7/4 SERVICE AREA DETAIL 1/16



4/4 FRONT ELEVATION 1/50

6/4 SOFTBALL FIELD 1/16 5/4 BACKBOARD DETAIL 1/2



TCA ARCHITECTS
 2861 RIVA ROAD SUITE 120
 ANNAPOLIS, MARYLAND 21401
 410-841-6205

OWNER
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PLANNING AND ZONING

RECORDED: *[Signature]* 4/20/98
 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* 4/20/98
 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 4/17/98
 DATE

SITE DETAILS

NORTHEASTERN MIDDLE SCHOOL NO. 2

TAX MAP NO: 31 PARCEL: 819
 1ST ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN

NORTHEASTERN MIDDLE SCHOOL NO. 2
 Howard County, Maryland
 Howard County Public School System

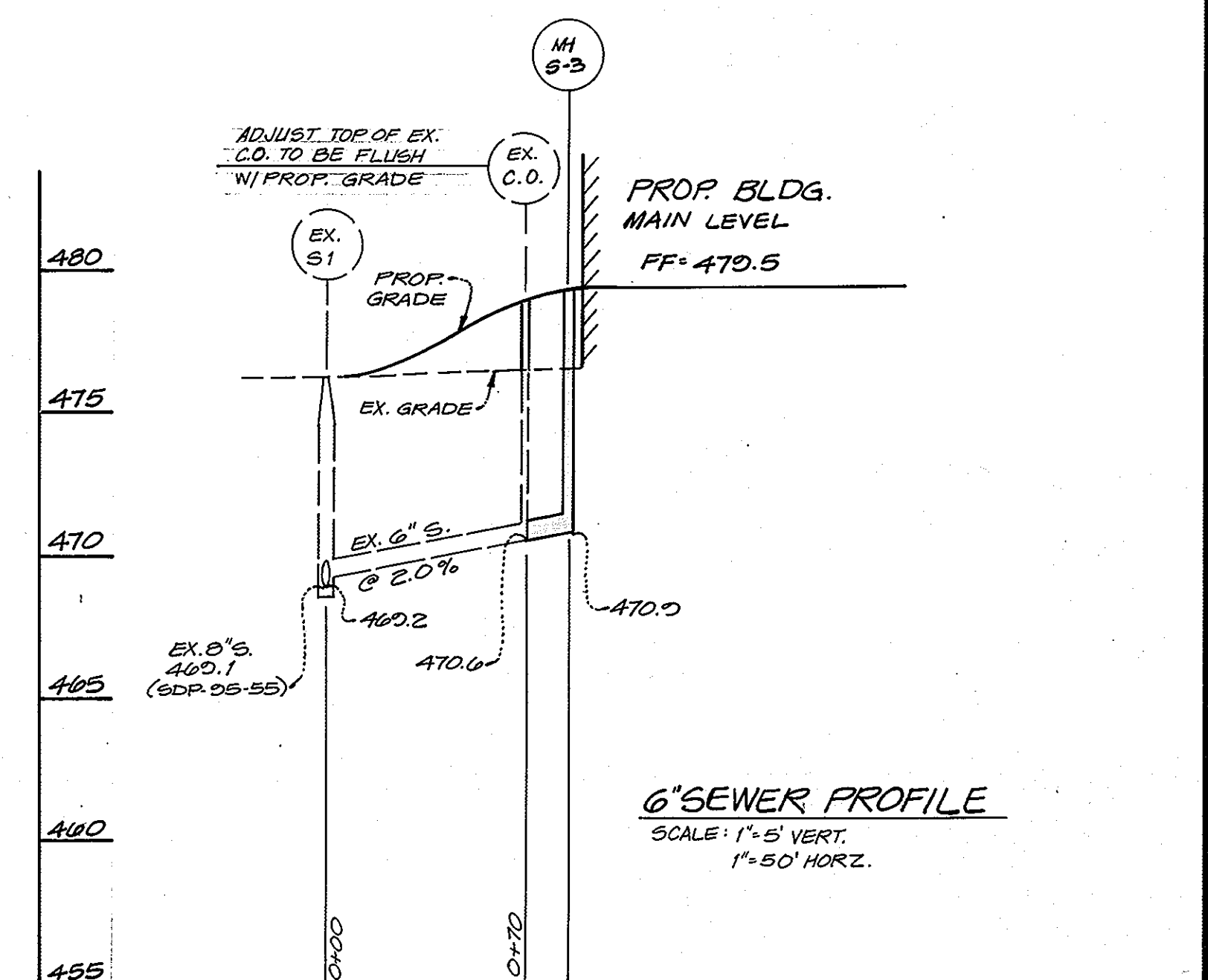
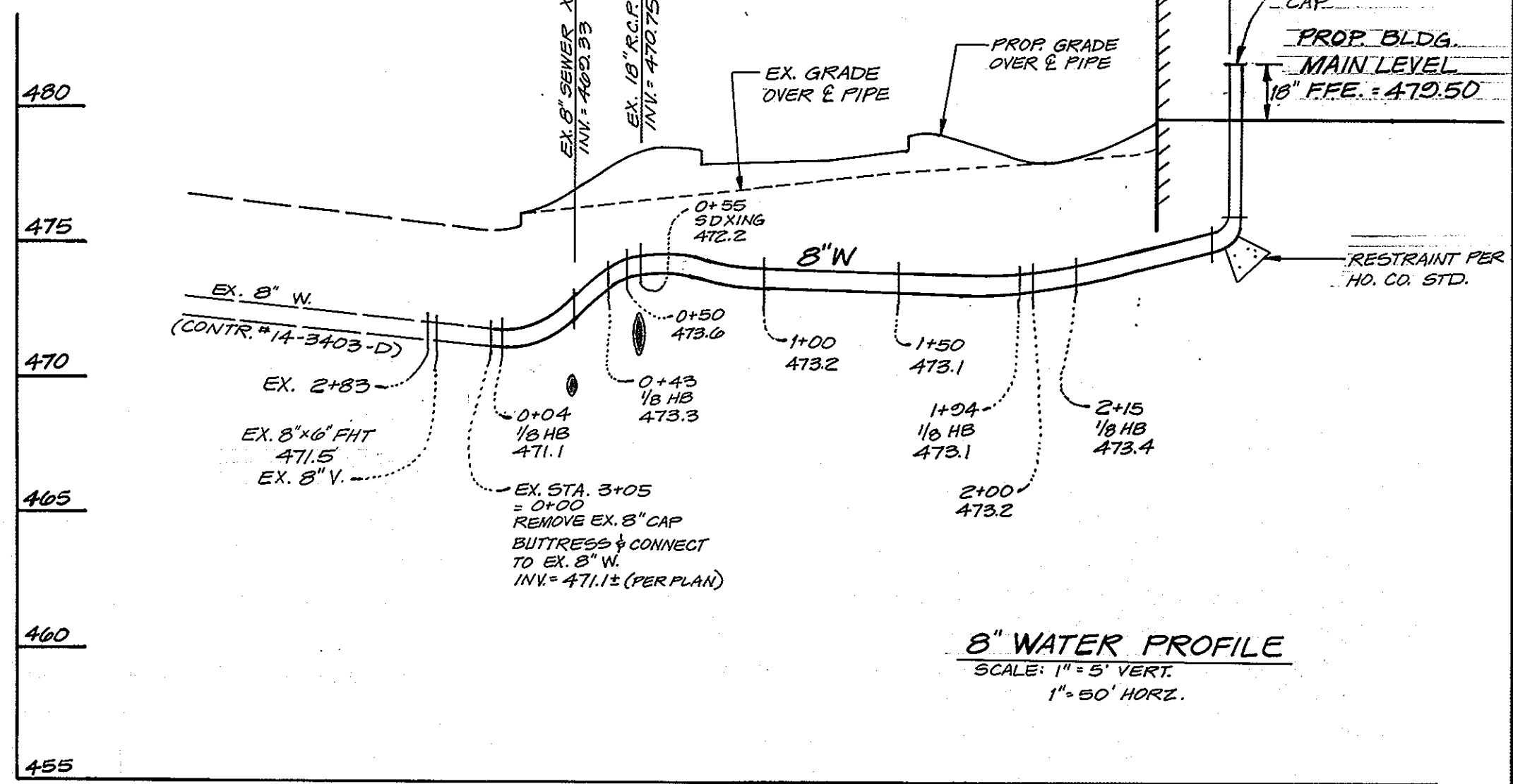
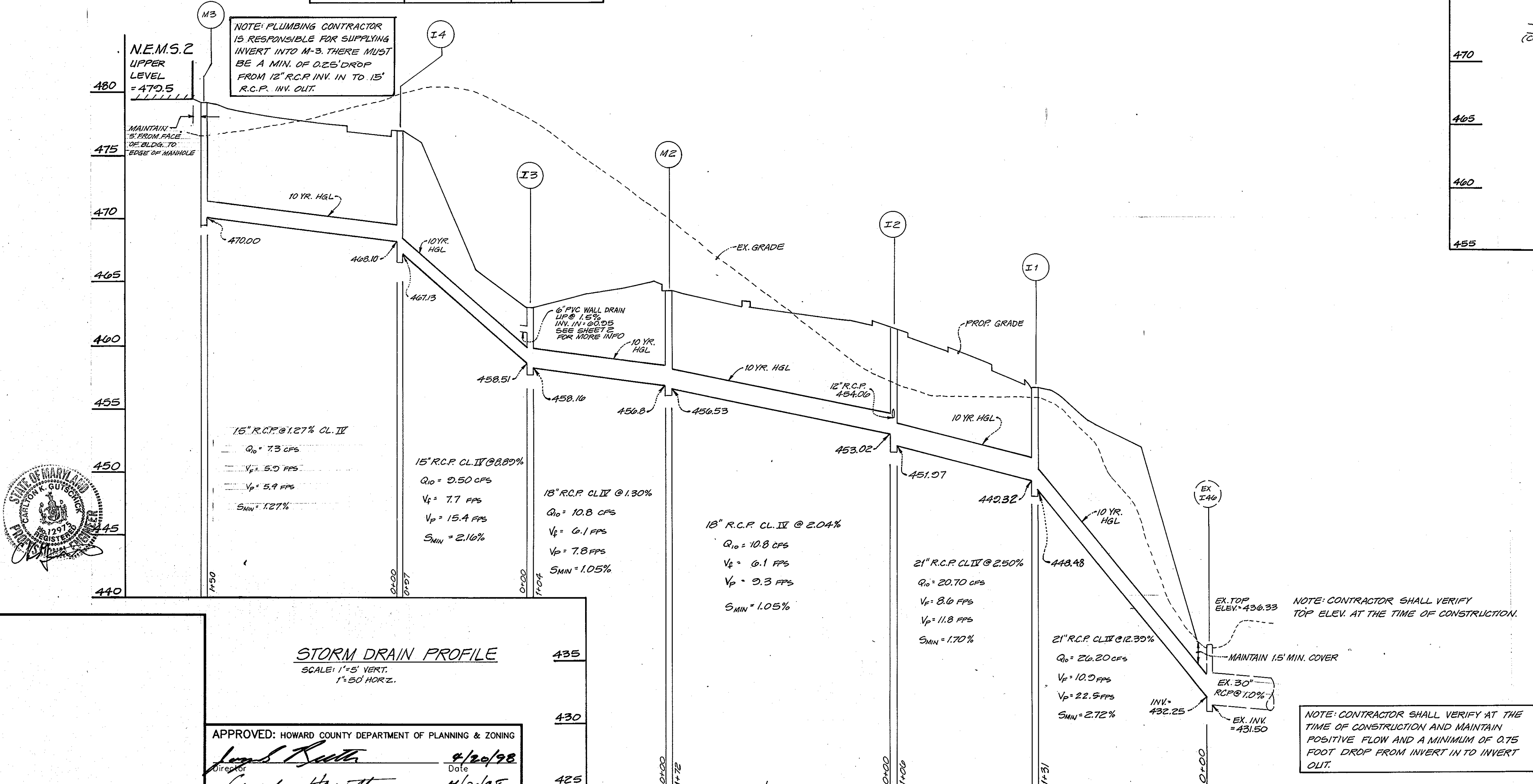
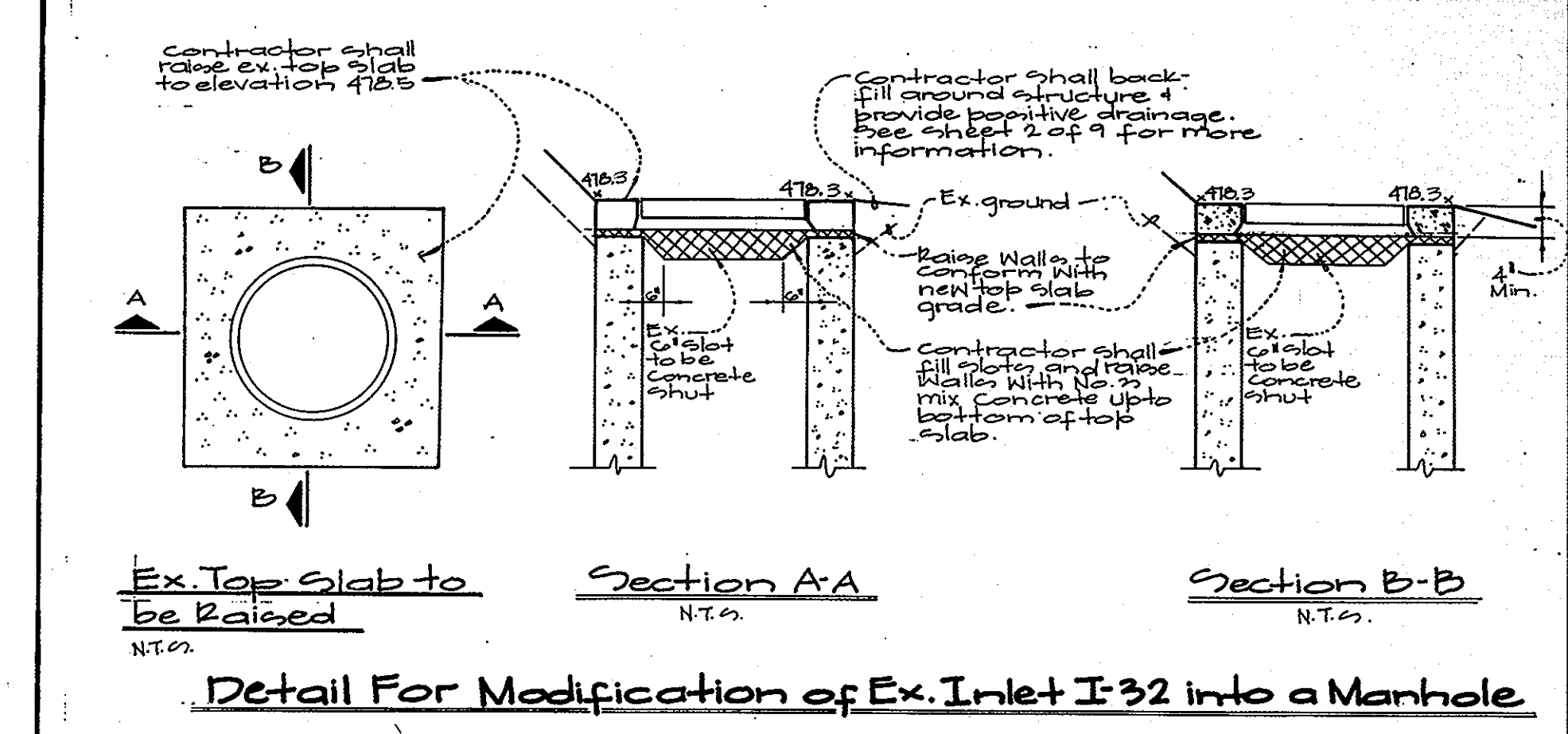
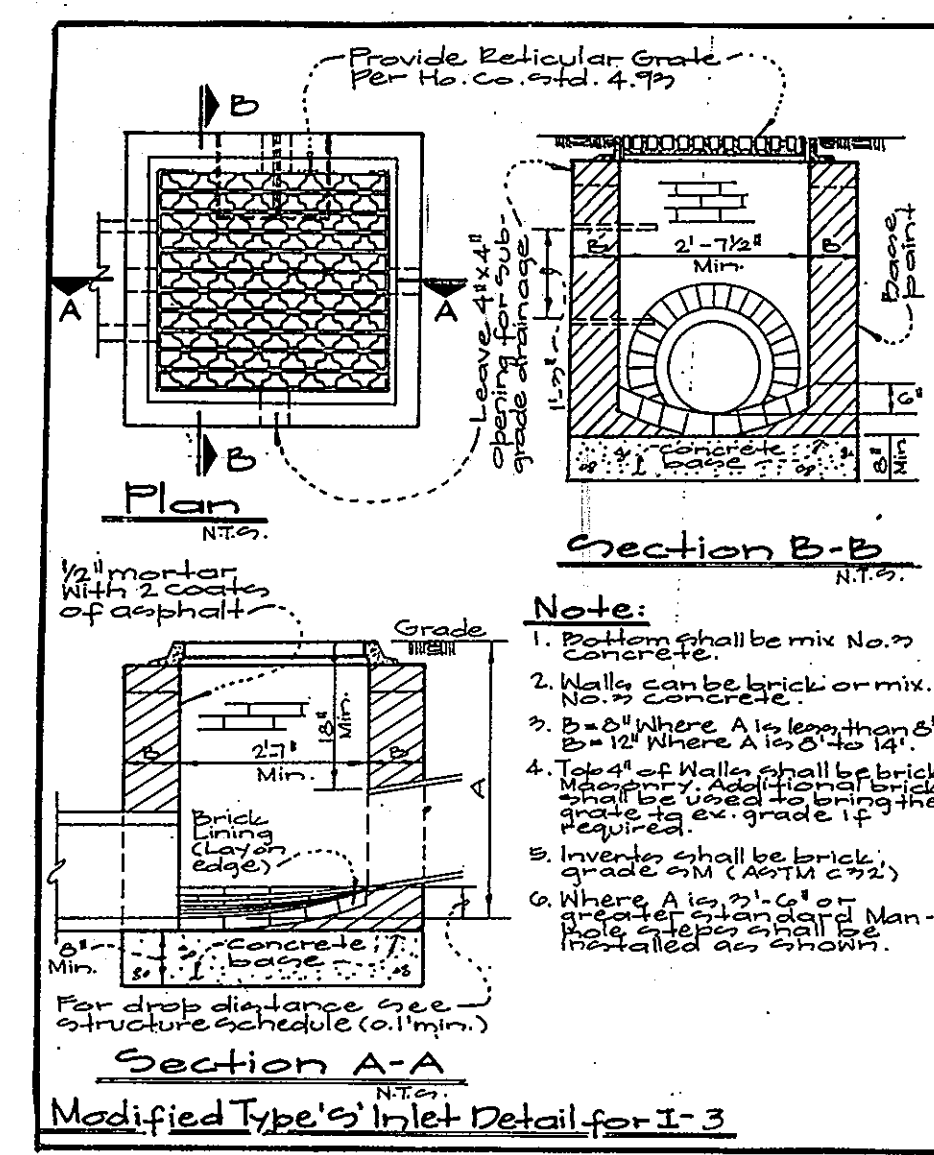
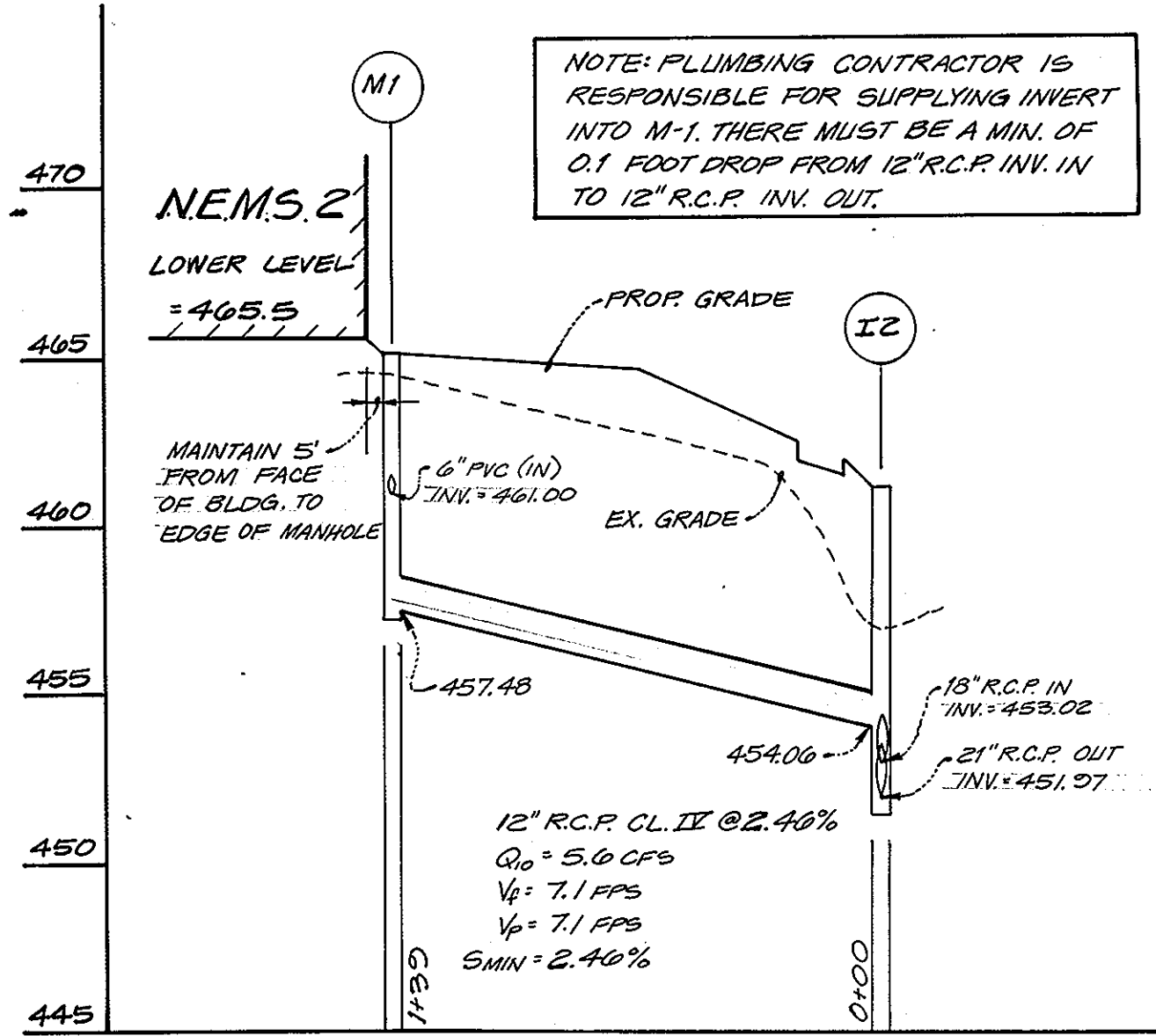


Thomas Clark Associates Architects
 Annapolis, Maryland

STRUCTURE SCHEDULE									
No.	TYPE	WIDTH (DIAM. INSIDE)	TOP ELEVATION		INVERT ELEVATION		STD DETAIL	LOCATION	REMARKS
			UPPER	LOWER	UPPER	LOWER			
I-1	A-10 INLET	2'-0"	457.08	456.70	442.32	448.48	HO.CO. SD 4.02	SEE PLAN	
I-2	COG-15 INLET	4'-0"	461.88	461.37	454.09	451.97	MDSHA MD-374.62	SEE PLAN	USE RECTANGULAR GRATE (STD. 4.22)
I-3	MODIFIED TYPE 6 INLET	2'-7"	463.00	---	460.25	458.16	---	SEE PLAN	USE RECTANGULAR GRATE (STD. 4.22)
I-4	A-10 INLET	3'-0"	477.00	---	468.10	467.13	HO.CO. SD 4.02	SEE PLAN	
M-1	STD. PRECAST MANHOLE	4'-0"	464.80	---	---	457.48	HO.CO. G 5.12	SEE PLAN	5' BETWEEN BLDG. & FACE OF STRUCTURE
M-2	STD. PRECAST MANHOLE	4'-0"	464.39	---	---	456.81	HO.CO. G 5.12	SEE PLAN	
M-3	STD. PRECAST MANHOLE	4'-0"	479.33	---	---	470.00	HO.CO. G 5.12	SEE PLAN	5' BETWEEN BLDG. TO CENTER OF 12" R.C.P. IN. IN TO 12" R.C.P. INV. OUT.

NOTES: 1. PRECAST ALTERNATES FOR INLETS ARE ACCEPTABLE.
2. ALL MH COVERS SHALL BE LOCKABLE.

PIPE SCHEDULE			
TYPE & SIZE	CLASS	QUANTITY	
12" R.C.P.	CL. II	130 LF	
15" R.C.P.	CL. II	247 LF	
18" R.C.P.	CL. II	270 LF	
21" R.C.P.	CL. II	237 LF	
6" P.V.C.	SCHEDULE 40	210 LF	



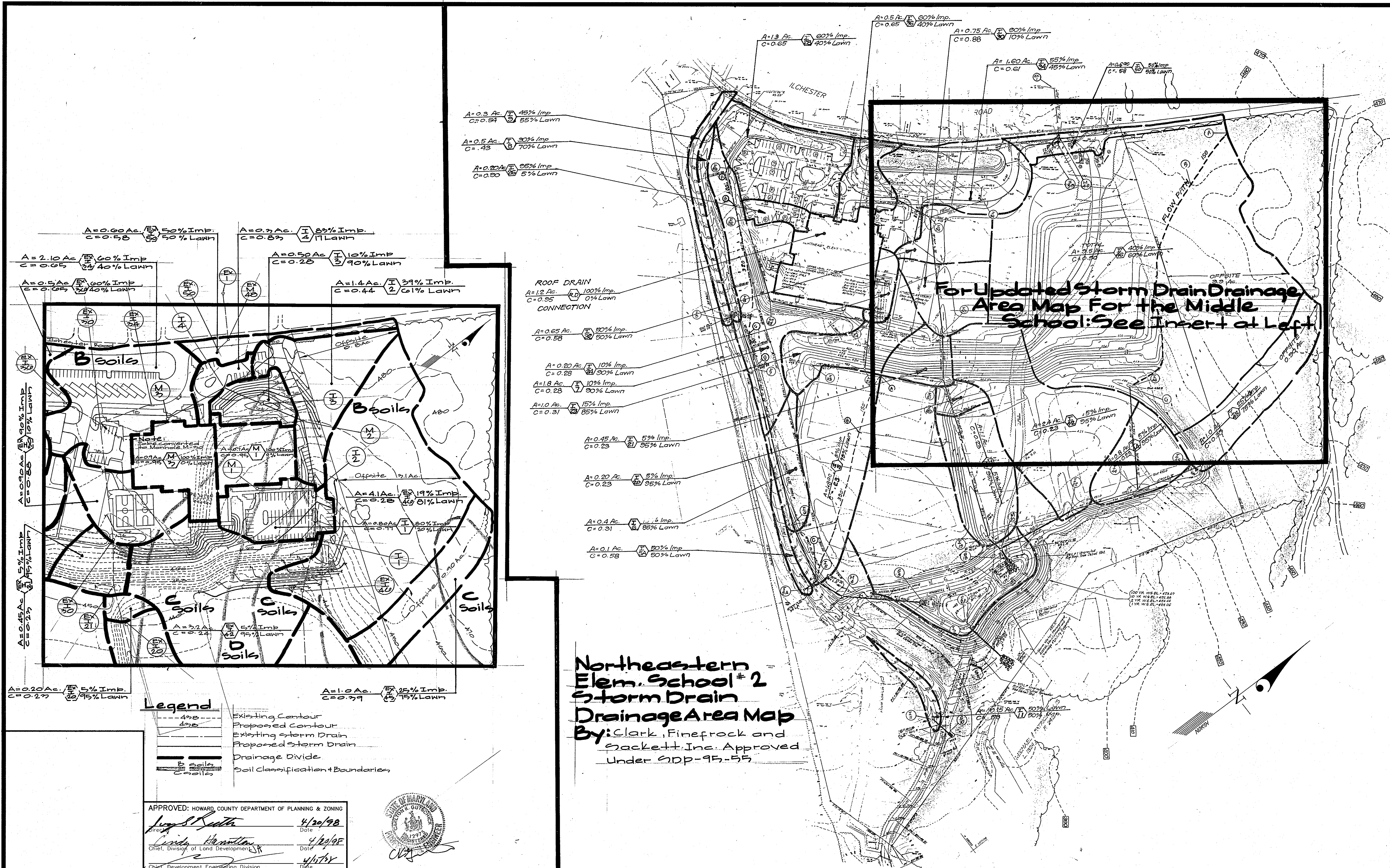
STORM DRAIN PROFILE
SCALE: 1"=5' VERT.
1"=50' HORIZ.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

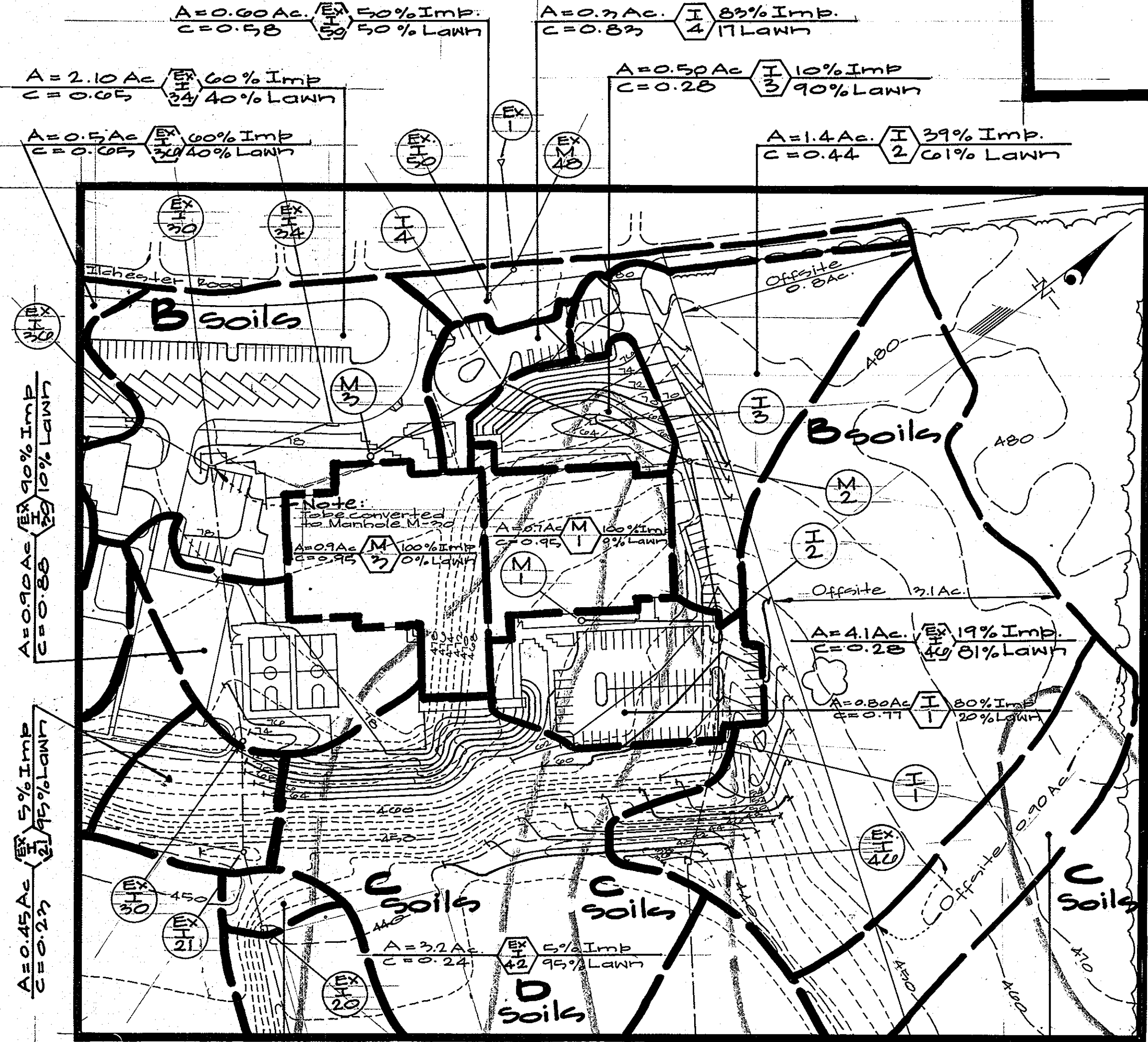
James R. Smith 4/20/98
Director Date

Cindy Hammett 4/20/98
Chief, Division of Land Development Date

[Signature] 4/15/94
Chief, Development Engineering Division Date



For Updated Storm Drain Drainage Area Map For the Middle School: See Insert at Left



ROOF DRAIN CONNECTION
 A=1.2 Ac. C=0.95 100% Imp. 0% Lawn

A=0.65 Ac. C=0.58 50% Imp. 50% Lawn

A=0.20 Ac. C=0.28 10% Imp. 90% Lawn

A=1.8 Ac. C=0.28 10% Imp. 90% Lawn

A=1.0 Ac. C=0.31 15% Imp. 85% Lawn

A=0.45 Ac. C=0.23 5% Imp. 95% Lawn

A=0.20 Ac. C=0.23 5% Imp. 95% Lawn

A=0.4 Ac. C=0.31 5% Imp. 85% Lawn

A=0.1 Ac. C=0.58 50% Imp. 50% Lawn

Northeastern Elem. School # 2 Storm Drain Drainage Area Map

By: Clark, Finefrock and Sackett, Inc. Approved Under SDP-95-55

- Legend**
- Existing Contour
 - Proposed Contour
 - Existing Storm Drain
 - Proposed Storm Drain
 - Drainage Divide
 - Soil Classification + Boundaries

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Joseph S. Sackett 4/20/98 Date
 Director

Cindy Hamilton 4/20/98 Date
 Chief, Division of Land Development

[Signature] 4/17/98 Date
 Chief, Development Engineering Division



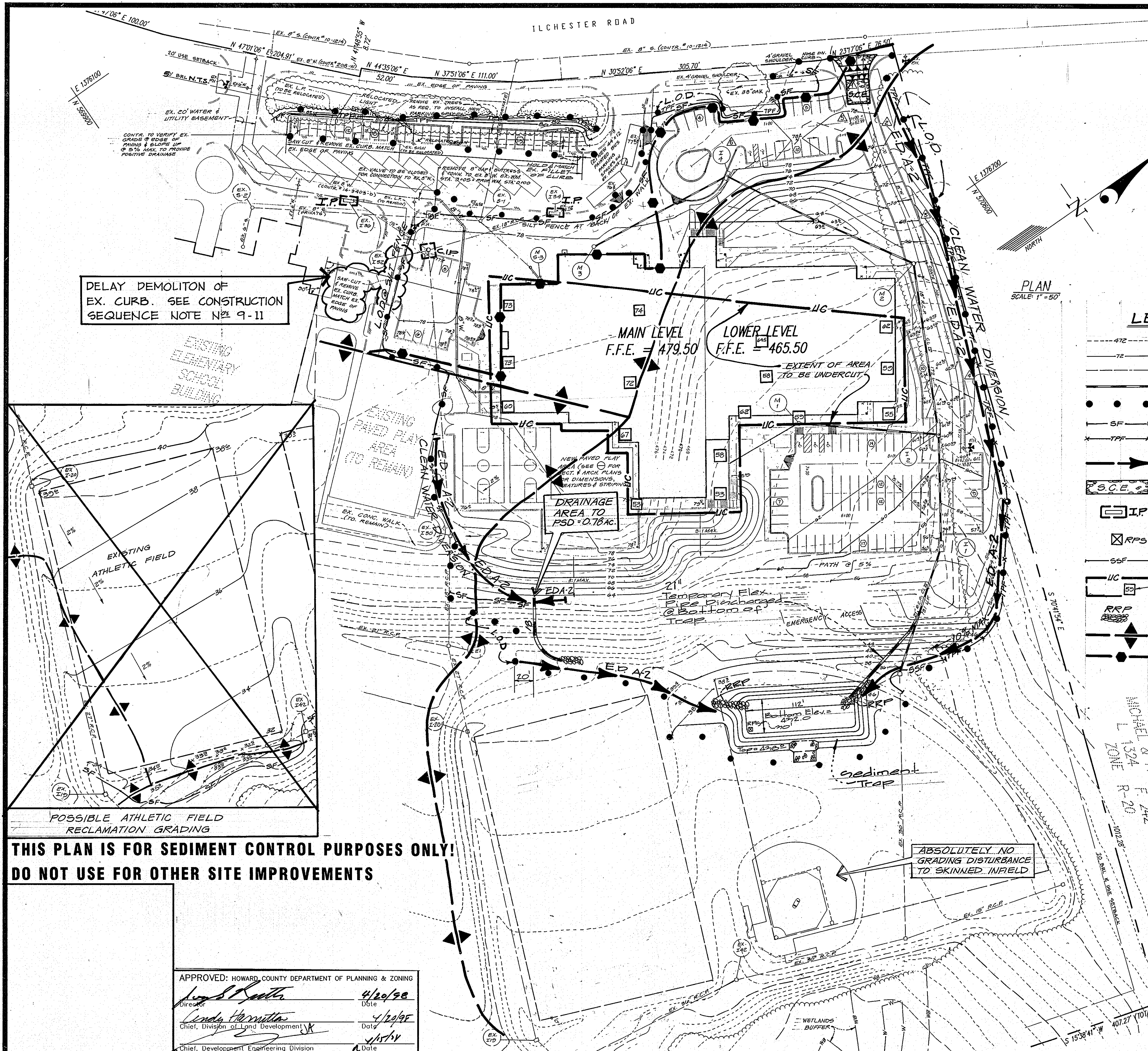
GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

PREPARED FOR:
 HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 ATTN: BILL GRAU
 PHONE: (410) 313-6751

Storm Drain Drainage Area Map
NORTHEASTERN MIDDLE SCHOOL No. 2
 PARCEL 819
 L. 3322 F. 620

SCALE 1" = 100'	ZONING R-20	G. L. W. FILE No. 96098
DATE 3/13/1998	TAX MAP No. 31	SHEET 6 OF 10

96098SP2.DWG	DES. BY: DRN. GT. CHK. BY: [Signature]	DATE: 4/20/98	REVISION: 1. 11.00 ADDED 17 PARKING SPACES	BY: [Signature]	APP'R: [Signature]
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DELAY DEMOLITION OF EX. CURB. SEE CONSTRUCTION SEQUENCE NOTE NOS 9-11

EXISTING ELEMENTARY SCHOOL BUILDING

**THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY!
DO NOT USE FOR OTHER SITE IMPROVEMENTS**

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *[Signature]* 4/20/98
 Chief, Division of Land Development: *[Signature]* 4/20/98
 Chief, Development Engineering Division: *[Signature]* 4/15/98

GLW GUTSCHICK LITTLE & WEBER, P.A.
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 96098SP2.DWG

DATE	DES.	DRN.	CHK.	REVISION	BY	APPR.
4/20/98				ADDED TO PARKING DRIVE TFF & EXPANDED L.O.D.		
4/20/98				Red. dist. area, eliminate borrow & backfill area, delete curb I-2 temp. adjust. & reloc. trap		

PREPARED FOR:
 HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043
 ATTN: BILL GRAU
 PHONE: (410) 313-6751

SEDIMENT CONTROL PLAN
NORTHEASTERN MIDDLE SCHOOL No. 2
 PARCEL 819
 L 3322 F 620
 ELKRIEGE ELECTION DISTRICT No. 1
 HOWARD COUNTY, MARYLAND

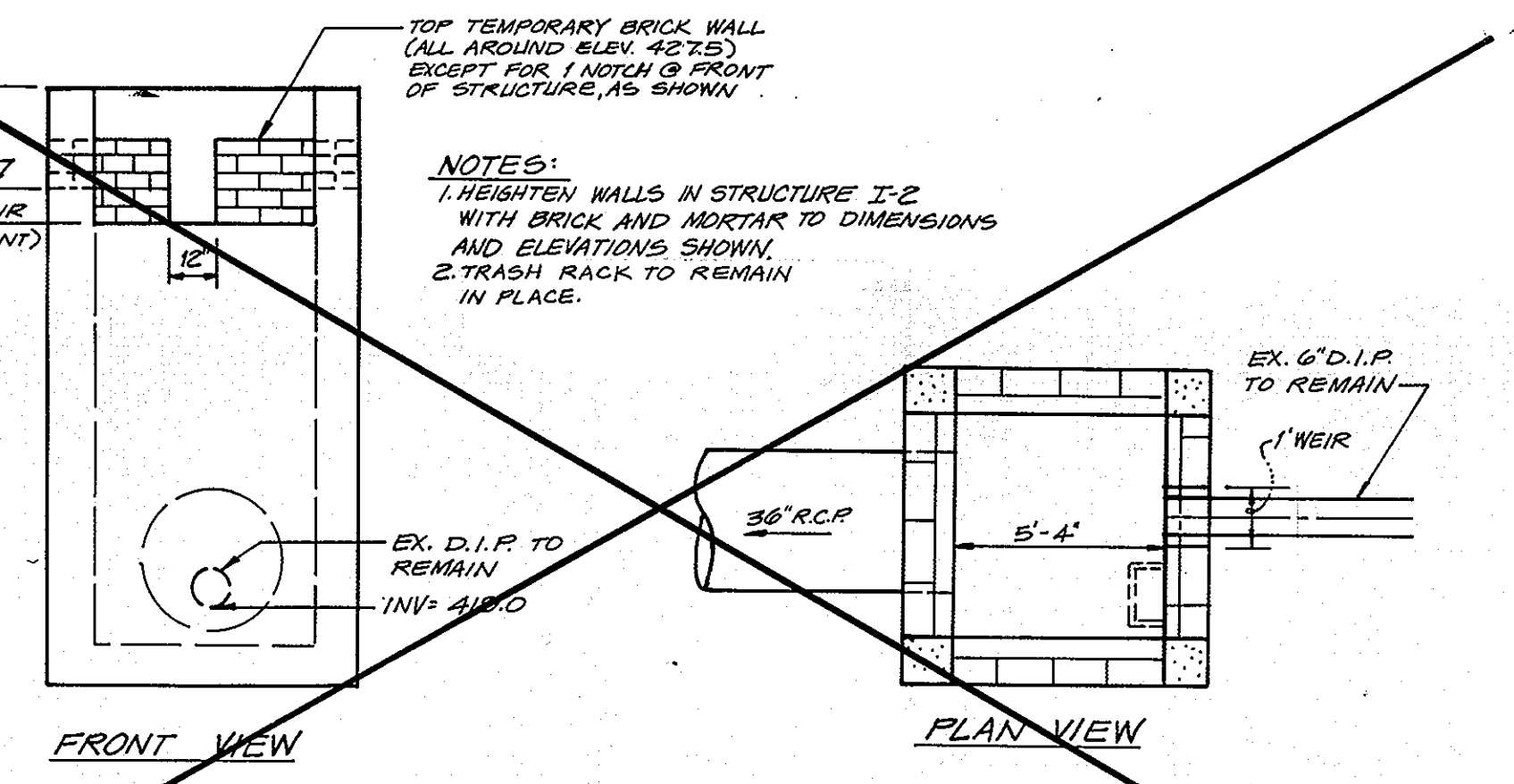
SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	R-20	96098
DATE	TAX MAP No.	SHEET
3/13/1998	31	7 OF 10

LEGEND

- - - - - EXISTING CONTOUR
- — — — PROPOSED CONTOUR
- — — — EXISTING STORM DRAIN
- — — — PROP. STORM DRAIN
- • • • • LIMIT OF DISTURBANCE (L.O.D.)
- — — — SILT FENCE
- — — — TREE PROTECTION FENCE
- — — — EARTH DIKE
- — — — STABILIZED CONSTRUCTION ENTRANCE
- — — — INLET PROTECTION
- — — — REMOVABLE PUMP STATION
- — — — SUPER SILT FENCE
- — — — UNDERCUT EXCAVATION LIMITS
- — — — BOTTOM ELEVATION
- — — — RIP-RAP INFLOW PROTECTION
- — — — PRE-DEVELOPMENT DRAINAGE DIVIDE
- — — — POST-DEVELOPMENT DRAINAGE DIVIDE

**TRAP DATA
STONE OUTLET ST IV**

DRAINAGE AREA	=	5.8 AC.
VOLUME REQUIRED	=	20,880 CU
VOLUME PROVIDED	=	21,175 CU
LIMIT OF WET STORAGE	=	479.7
LIMIT OF DRY STORAGE	=	477.0
WEIR CREST ELEV.	=	477.0
WEIR LENGTH	=	24'
BOTTOM ELEV.	=	472.0
CLEANOUT ELEV.	=	472.0
TOP OF DAM ELEV.	=	478.0



ADJUSTMENTS TO STRUCTURE I-2 (IN SWM ROND) FOR TEMPORARY SWM (N.T.S.)
 NOTE: THIS DETAIL IS FROM APPROVED SDP-98-55 AND ARE ADJUSTED TO MEET EX. CONDITIONS.

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

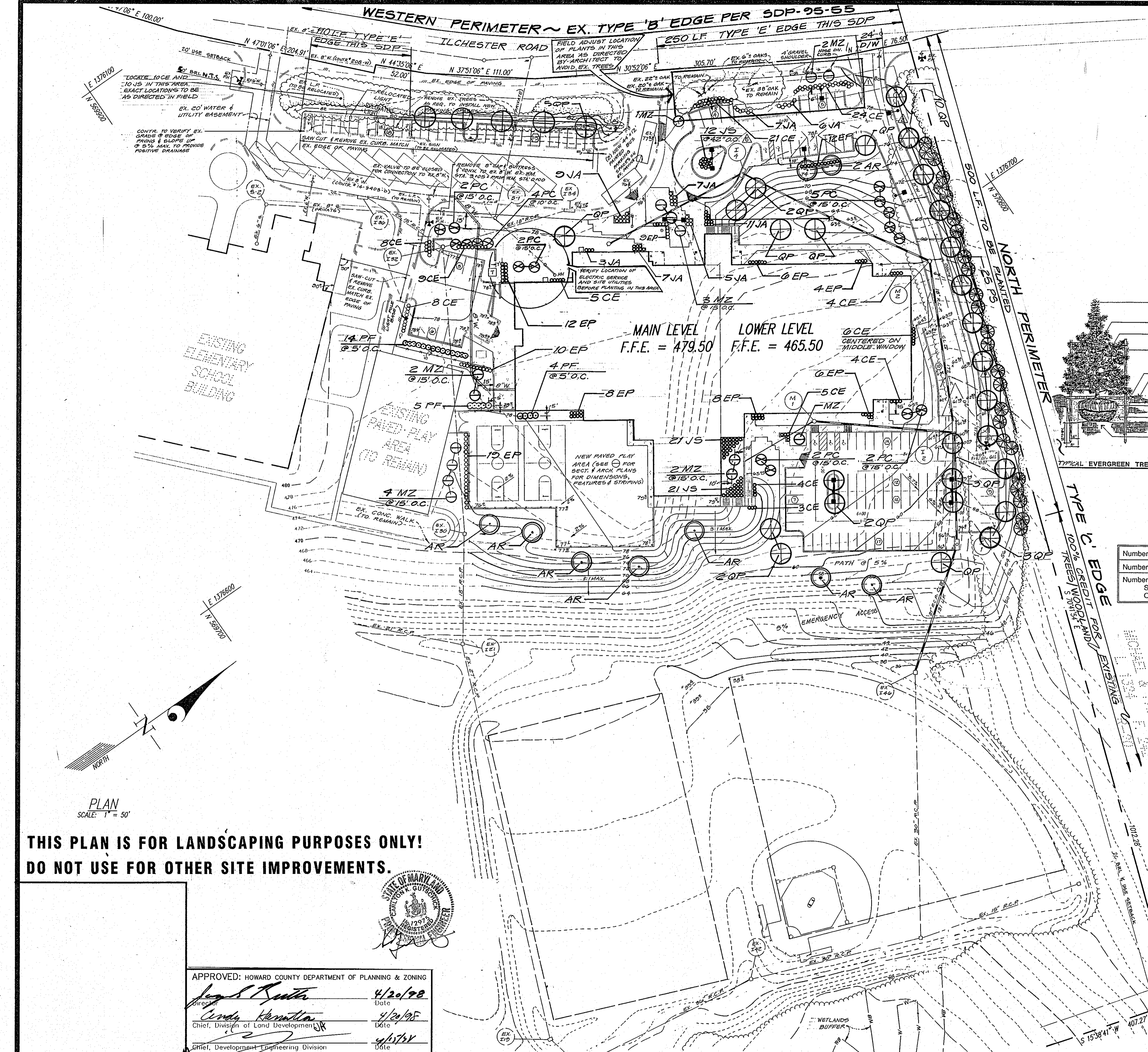
[Signature] 2/3/98
Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland 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 HSCD."

[Signature] 2/3/98
Signature of Developer/Builder Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
 These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.
[Signature] 4/15/98 *[Signature]* 4/15/98
 Howard S.C.D. Date Natural Resources Conservation Service Date

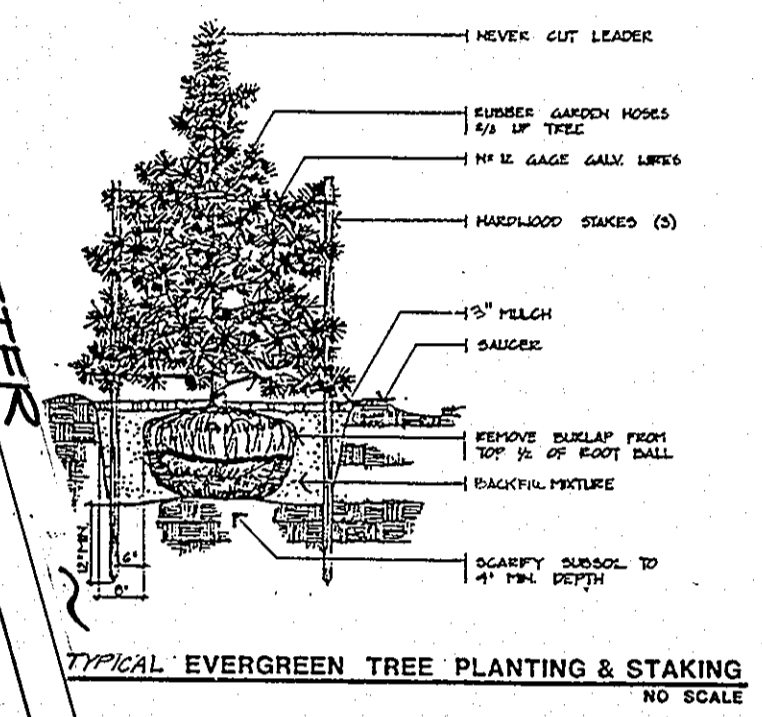


PLANT LIST						
SYMBOL	KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	REMARKS
⊙	QP	32	Quercus palustris	Pin Oak	2 1/2'-3' Cal. 12'-14' Ht.	B&B
⊙	AR	9	Acer rubrum "October Glory"	October Glory Red Maple	2 1/2'-3' Cal. 12'-14' Ht.	B&B
⊙	PC	17	Prunus cerasifera "Thundercloud"	Purpleleaf Flowering Plum	1 1/2'-2' Cal. 8'-10' Ht.	B&B
⊙	MZ	15	Malus Zumi "Calocarpa"	Zumi Crabapple	1 1/2'-2' Cal. 8'-10' Ht.	B&B
⊙	PS	25	Pinus strobus	White Pine	6'-8' Ht.	B&B
⊙	EP	94	Euonymus patens "Pauli"	Pauli Euonymus	24'-30' Ht.	Cont. 4'-0" O.C. U.O.N.*
⊙	JA	55	Juniperus horizontalis compacta	Andorra Juniper	18'-24' Ht.	Cont. 4'-6" O.C. U.O.N.
⊙	JS	64	Juniperus chinensis "Sargent"	Sargent's Juniper	18'-24' Ht.	Cont. 4'-6" O.C. U.O.N.
⊙	PF	23	Photinia fraseri	Fraser's Red Tipped Photinia	30'-36' Ht.	Cont. 5'-0" O.C.
⊙	CE	111	Alatus compactus	Dwarf Winged Euonymus	30'-36' Ht.	Cont. 3'-0" O.C. U.O.N.

* U.O.N. - UNLESS OTHERWISE NOTED

LANDSCAPING NOTES

- This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Landscape Manual.
- Contractor shall notify all utilities at least (5) five days before starting work. All General Notes, especially those regarding utilities, on Sheet C-1 shall apply.
- Field verify underground utility locations and existing conditions before starting planting work. Contact architect if any relocations are required.
- 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.
- All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.N. Specifications, and be installed in accordance with project specifications.
- No substitution shall be made without written consent of the owner or his representative.
- All areas disturbed by construction activities but not otherwise planted, paved, or mulched shall be seeded in accordance with project specifications.
- The contractor shall notify the architect in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
- All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Details.

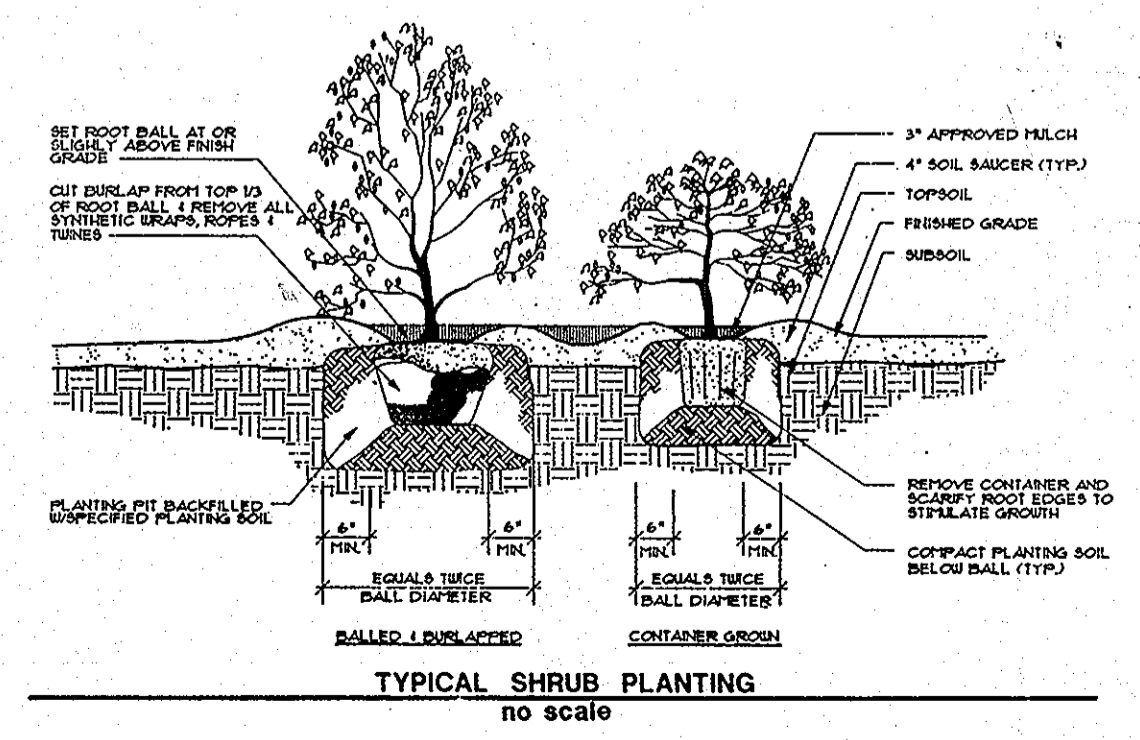
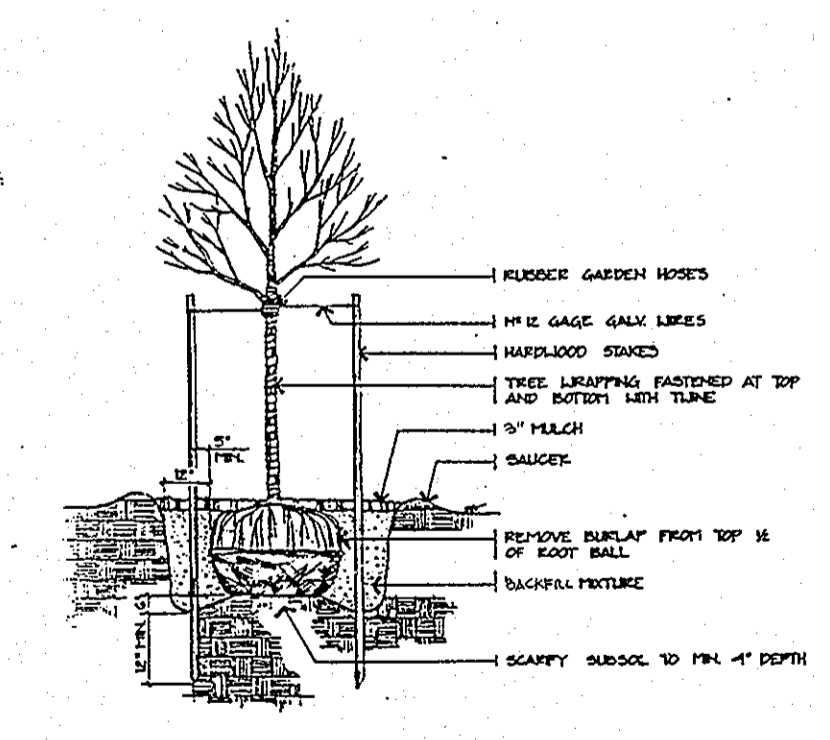
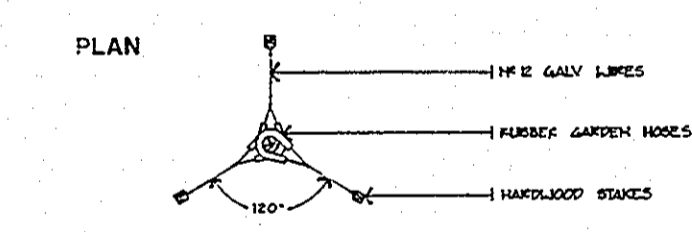


**SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING**

Number of Parking Spaces	142
Number of Trees Required @ 1 PER 20 SF.	B
Number of Trees Provided Shade Trees Other Trees (2:1 substitution)	OVER B

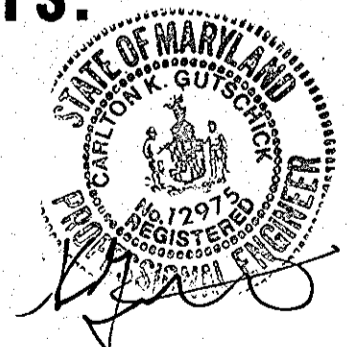
**SCHEDULE A
PERIMETER LANDSCAPE EDGE**

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	'E'	'C'
Linear Feet of Roadway Frontage/Perimeter	(201' 250' - 24')	500 LF. TO BE PLANTED
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	YES [ⓐ]	YES [ⓐ]
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	YES [ⓐ]	NO
Number of Plants Required Shade Trees Evergreen Trees Shrubs	13 [ⓐ] 0 07	13 [ⓐ] 25
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	44 CREDIT 3 78	13 [ⓐ] 25



PLAN
SCALE: 1" = 50'

**THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY!
DO NOT USE FOR OTHER SITE IMPROVEMENTS.**



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Joseph B. Butler 4/20/98
Date

Candy Hamilton 4/20/98
Date
Chief, Division of Land Development

4/15/98
Date
Chief, Development Engineering Division

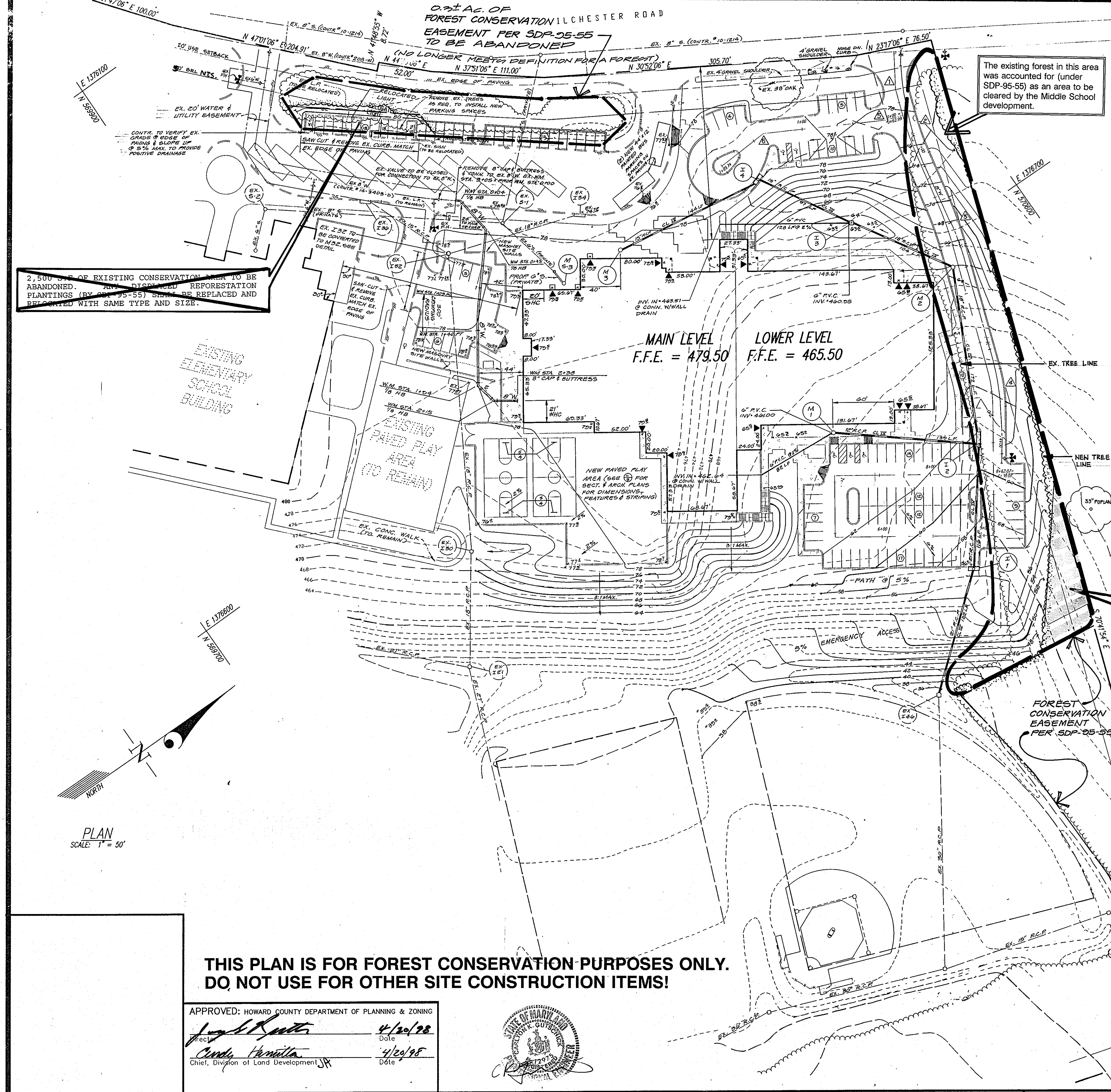
GLW GUTSCHICK LITTLE & WEBER, P.A.
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DES.	DRN.	CHK.	DATE	REVISION	BY	APP'R.
			2-10-97	ADD 17 01 PAVED, ADD 9 SHADE TREES, UPDATE PLANT LIST & BUFFER ZONE	WJL	

PREPARED FOR:
HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLICOTT CITY, MARYLAND 21043
ATTN: BILL GRAU
PHONE: (410) 313-6751

LANDSCAPE PLAN
NORTHEASTERN MIDDLE SCHOOL No. 2
PARCEL 819
L. 3322 F. 620
ELKRDGE ELECTION DISTRICT No. 1

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	R-20	96098
DATE	TAX MAP No.	SHEET
3/13/1998	31	9 OF 10



PEK SDP-95-55

ADJUSTMENT BY MIDDLE SCHOOL DEVELOPMENT

Figure 3.4.7 Field Edge Determination

Final Edge

Final Edge

Legend:

- Critical Root Zone
- Primary Retention Edge
- Secondary Retention Edge
- Final Retention Edge
- Cleared Area

Notes:

- Save: Primary retention edge (PRE) imposing approximately 40% of Critical Root Zone (CRZ). Worth moving the slightly to accommodate.
- Remove: PRE meeting 80% of CRZ species. Topsoil (cannot withstand disturbance with trunk shows sign of decay) adjacent to line to remove.
- Remove: PRE over trunk.
- Remove: Tree is completely within disturbance zone.
- Save: Approximately 40% impact of CRZ healthy tree, move edge to accommodate.
- Remove: Retention edge runs through trunk.

As a result of this process: NO ACRES LOST FROM BUILDABLE AREA... TWO TREES SAVED

Staking Retention Edges in the field requires tree-by-tree decisions. The above examples demonstrate the use of the Critical Root Zone, tree health, and tree species in laying out a final, healthy, retention line.

Category	Value
I. BASIC SITE DATA	
A. GROSS SITE AREA	35.9
B. AREA WITHIN 100 YEAR FLOODPLAIN AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (IF APPLICABLE)	32.3
C. NET TRACT AREA	3.6
D. LARD USE CATEGORY (R-1LD, R-1MD, R-1S, CWO, U)	1
II. INFORMATION FOR CALCULATIONS	
A. NET TRACT AREA	35.3
B. REFORESTATION THRESHOLD (2.0% x A)	7.1
C. AFFORESTATION MINIMUM (1.0% x A)	3.5
D. EXISTING FOREST ON NET TRACT AREA	33.4
E. FOREST AREAS TO BE CLEARED	23.4
F. FOREST AREAS TO BE RETAINED	7.9
IV. REFORESTATION CALCULATIONS	
A. NET TRACT AREA	35.3
B. REFORESTATION THRESHOLD (2.0% x A)	7.1
C. EXISTING FOREST ON NET TRACT AREA	33.4
D. FOREST AREAS TO BE CLEARED	23.4
E. FOREST AREAS TO BE RETAINED	7.9
F. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD (D - F, if F equals or is greater than D, Alternate 1)	15.5
G. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD (D - F, if applicable)	0.0
H. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD (F - B, Retention Credit, if applicable)	0.0
I. FOREST AREAS RETAINED BELOW REFORESTATION THRESHOLD (F - B, Retention Credit, if applicable)	0.0
Select the alternative that applies:	
1. Clear above the threshold only	
If forest areas to be retained equal or are greater than the reforestation threshold (I or F equals or is greater than B), the following calculations apply:	
REFORESTATION FOR CLEARING ABOVE THRESHOLD (G x 14)	6.9
CREDIT FOR FOREST AREAS RETAINED ABOVE THRESHOLD (I - Retention Credit)	0.0
TOTAL REFORESTATION REQUIRED (G x 14) - I	6.9
PROPOSED METHOD OF SATISFYING REFORESTATION OBLIGATION:	
A. SUPPLEMENTAL RETENTION AREA 43 2" CAL. TREES @ 1/100	0.19 AC
E. SUPPLEMENTAL RETENTION AREA 200 1" CAL. TREES @ 1/200	0.00 AC
TOTAL MITIGATION VALUE	1.19 AC
REFORESTATION OBLIGATION	0.1 AC
REQUIRED ADDITIONAL OFF-SITE MITIGATION (IF SITE LOCATION TO BE DETERMINED)	1.09 AC
FOREST CONSERVATION EASEMENT AREA:	
On Elementary School Site	3.9 AC
On Sisters of Notre Dame (Parcel 232)	0.0 AC
TOTAL ON-SITE F.C. EASEMENT PROVIDED	7.9 AC
OFF-SITE F.C. EASEMENT REQUIRED	0.0 AC

WOODLAND CONSERVATION AREA

DO NOT DISTURB SEEDLINGS, SHRUBS OR TREES

MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS PROHIBITED

VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE HOWARD COUNTY CODE

TREES FOR YOUR FUTURE

11" MIN

15" MIN

NOTE:

- ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
- SIGNS SHOULD BE PROPERLY MAINTAINED.
- AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
- SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.

GENERAL NOTES

- This reforestation plan is provided in accordance with the requirements of Subtitle 12 "Forest Conservation" of the Howard County Code. This plan is to update the Forest Conservation Plans prepared for the site under SDP-95-55.
- Implementation of this plan must be performed by a contractor that is knowledgeable and experienced in afforestation/reforestation techniques and practices. Refer to the Landscape Plan and Project Specification for planting techniques and procedures.
- The owner is responsible for a 2-year post-construction maintenance period which involves activities necessary to ensure survival and growth of the conservation area.

Two inspections per year by a qualified professional at beginning and end of the growing season, are recommended in order to take remedial steps as necessary. If, after one year, the possibility exists that the original planting will not meet survival standards, the applicant may choose to establish reinforcement plantings.

If plant mortality of reforestation or reforestation exceeds 10% of planting materials at the end of the first growing season, such material should be replaced to bring the total number of trees to 90% of the original total. Such material shall be installed by the beginning of the second growing season. If at the end of the second growing season, survival rate drops below 75%, such material as needed to guarantee a 75% survival rate by the end of the subsequent year shall be installed.

At the end of the post-construction management and protection period, the designated responsible professional shall convey to the administrator of Howard County Forest Conservation Program certification that all forest conservation areas have remained intact or have been restored to the appropriate condition, and that the stipulated rates have been achieved, and that any permanent protection measures required by the plan are in place.

- To minimize soil erosion, all reforestation planting areas shall be in a stabilized condition. This plan document does not cover seeding or sodding refer to the separate Sediment Control Plan, Landscape Plan and Project Specifications for seeding and sodding.
- The contractor is responsible for the location of any existing utilities. The repair of any utilities damaged by the contractor shall be at the contractor's expense.

CONSTRUCTION PERIOD PROTECTION PROGRAM

- The limit of disturbance (see Sediment Control Plan) and areas of forest retention and reforestation shall be staked and flagged. Field adjustments of the edge of surviving forest stand shall be done by the detail labeled "Field Edge Determination".
- A pre-construction meeting at the site should be held to verify the limits of clearing and disturbance specified on the approved Sediment Control Plans. The meeting should include the owner or the owner's representative, the onsite foreman in charge of land disturbance, the environmental consultant and the appropriate Howard County inspectors.
- Forest protection devices (see Sediment Control Plan) and signs (see detail) shall be installed prior to any clearing or grading. The protection devices and signs shall be maintained during the entire construction period. None of the devices shall be in any way anchored or attached to the trees to be saved.
- Equipment, vehicles and building materials shall not be allowed within the protected area. Activities strictly to implement any reforestation planting and maintenance (i.e., watering, fertilizing, thinning, pruning, removal of dead or diseased trees, etc.) of the conservation area are permitted. Clearing for the purpose of sodding or planting grass is not permitted within the forest conservation area.
- At the end of the construction period, the designated qualified professional shall convey to the administrator of the Howard County Forest Conservation Program certification that all forest retention areas have been preserved, all reforestation and/or afforestation plantings (where required) have been installed as required by the forest conservation plan, and that all protection measures required for the post-construction period have been put in place.

Upon review of the final certification document for completeness and accuracy, the program coordinator will notify the developer of release from all construction period obligations.

THIS PLAN IS FOR FOREST CONSERVATION PURPOSES ONLY. DO NOT USE FOR OTHER SITE CONSTRUCTION ITEMS!

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 4/20/98 Date

[Signature] 4/20/98 Date

Chief, Division of Land Development



STATE OF MARYLAND

Michael E. Tran

REGISTERED ARCHITECT

933 LANDSCAPE

GLW GUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

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TEL: 301-421-4024 BALT. 410-884-1820 DC/VA. 301-989-2524 FAX: 301-421-4186

96098SP2.DWG

DES.	DRN.	CHK.	DATE	REVISION	BY	APPR.
			2-10-97	AMEND WORKSHEET TO ACCOUNT FOR CHANGES IN THE BUS LOOP		

PREPARED FOR:

HOWARD COUNTY BOARD OF EDUCATION

10910 ROUTE 108

ELLIOTT CITY, MARYLAND 21043

ATTN: BILL GRAU

PHONE: (410) 313-6751

FOREST CONSERVATION PLAN

NORTHEASTERN MIDDLE SCHOOL No. 2

PARCEL 819

L 3322 F. 620

ELKRIE ELECTION DISTRICT No. 1

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
AS SHOWN	R-20	96098
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7/19/1998	31	10 OF 10