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C3	SITE DEVELOPMENT PLAN
C4	SITE DEVELOPMENT PLAN
C5	SITE DEVELOPMENT PLAN
C6	SITE DEVELOPMENT PLAN
C7	SITE DEVELOPMENT PLAN
C8	PLAN AND PROFILE MD. RTE. 108 (SOUTHEAST SIDE)
C9	PLAN AND PROFILE MD. RTE. 108 (SOUTHEAST SIDE)
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C11	STORM DRAIN PROFILES AND DETAILS
C12	STORM DRAIN PROFILES AND DETAILS
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C14	GRADING & SEDIMENT CONTROL PLAN
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C17	GRADING & SEDIMENT CONTROL PLAN
C18	GRADING & SEDIMENT CONTROL PLAN
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C21	DRAINAGE AREA MAP
C22	S.W.M. PROFILES AND DETAILS
C23	S.W.M. PROFILES AND DETAILS
C24	LANDSCAPE PLAN
C25	LANDSCAPE PLAN
C26	LANDSCAPE PLAN
C27	LANDSCAPE PLAN
C28	LANDSCAPE PLAN
C29	LANDSCAPE PLAN
C30	STORM DRAIN PROFILES AND DETAILS
C10A	PROFILES & DETAILS
C10B	STORM DRAIN PROFILES & DETAILS

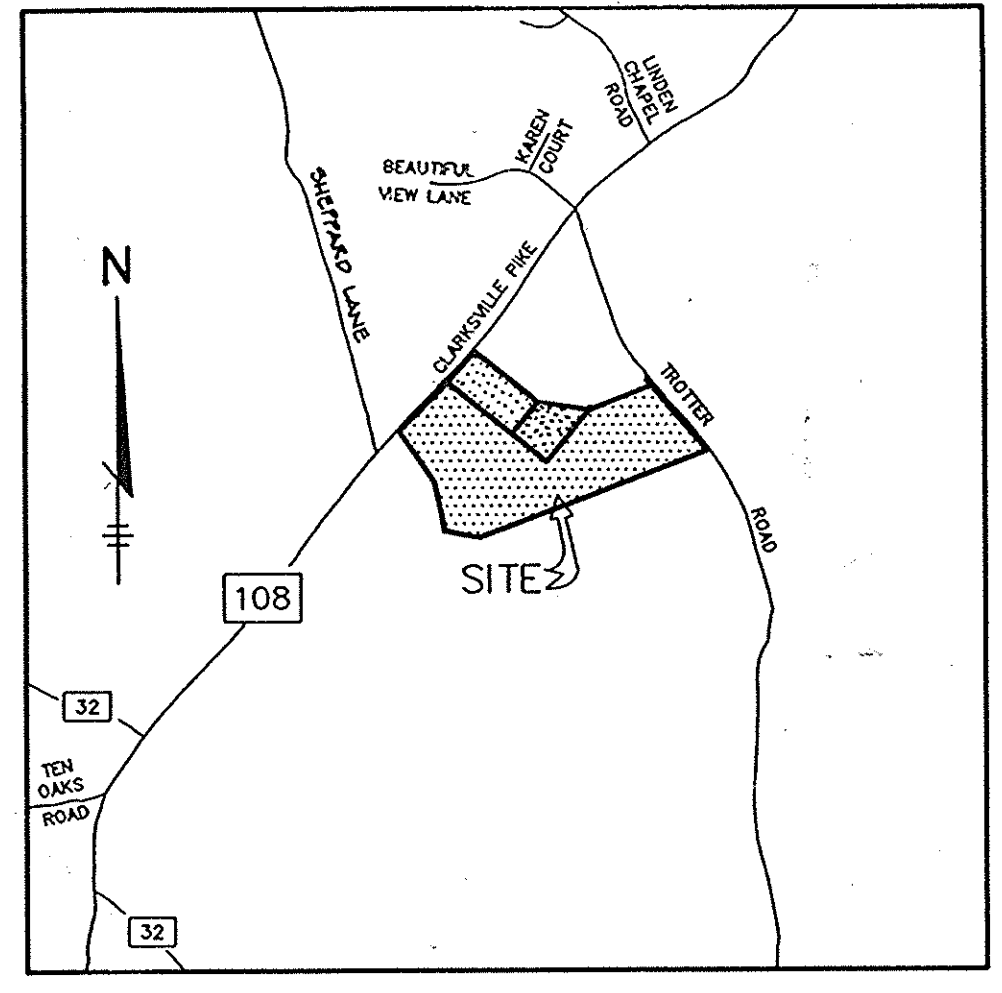
BENCH MARKS See sheet C31 for additional sheets

B.M. #1 ELEV. 491.557
 HO. CO. MON. #2737002. CONCRETE MONUMENT 0.5' BELOW SURFACE. 7.5' OFF NORTHWEST EDGE OF PAVING OF ROUTE 108, DIRECTLY OPPOSITE CLARKSVILLE ELEM. SCHOOL AND 57.2' ± FROM C&P POLE #288

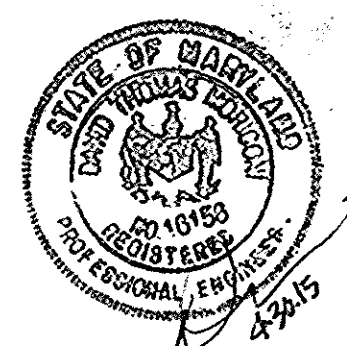
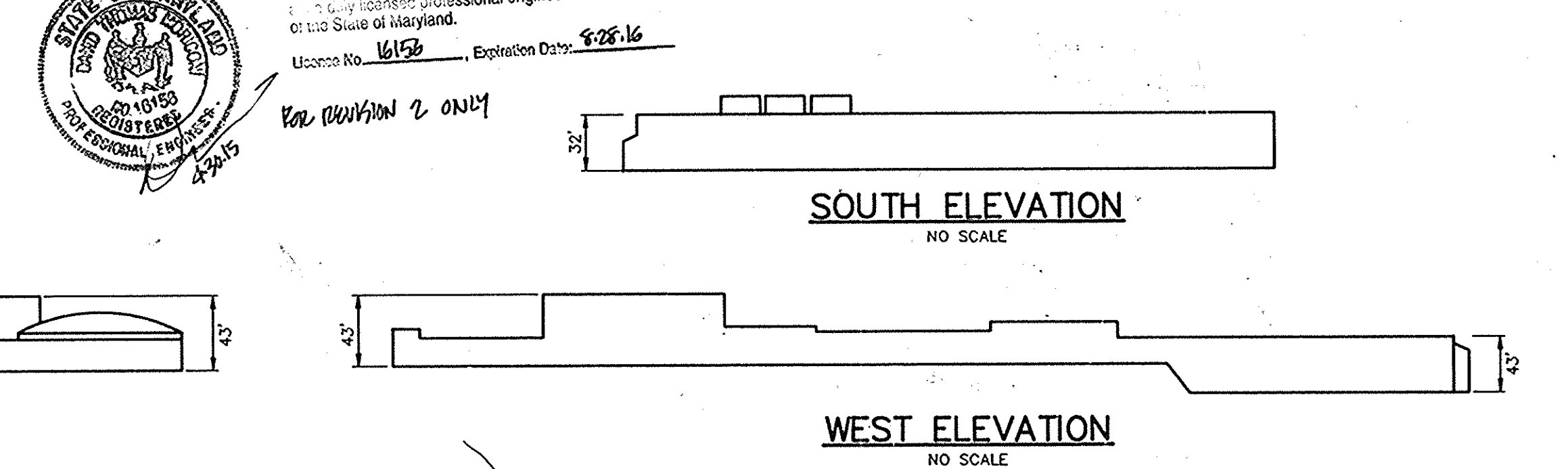
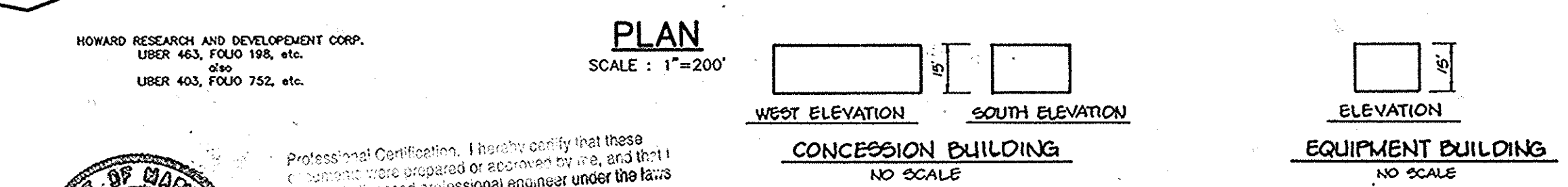
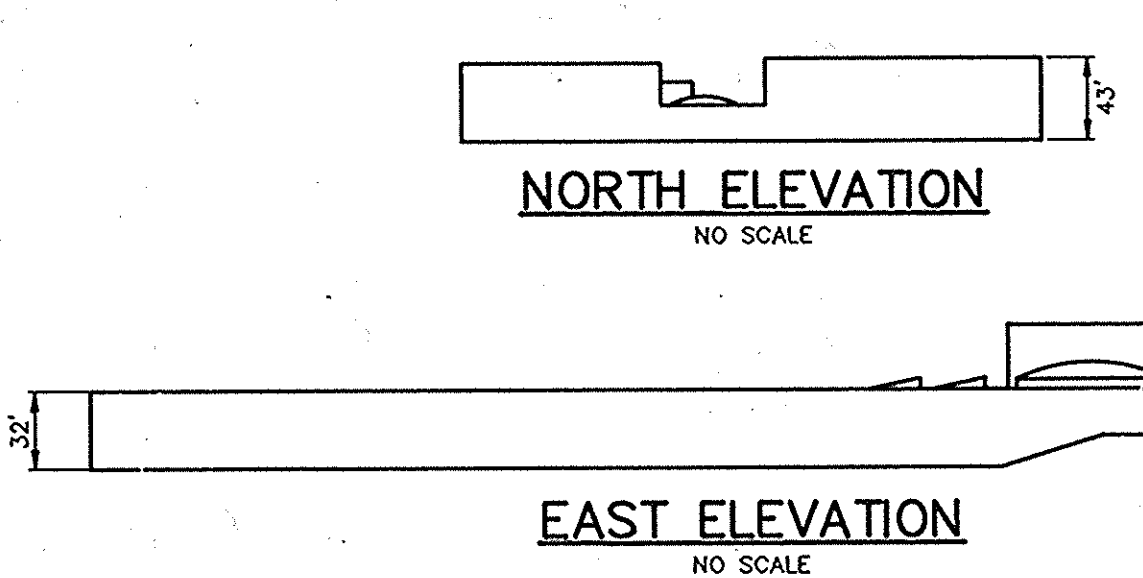
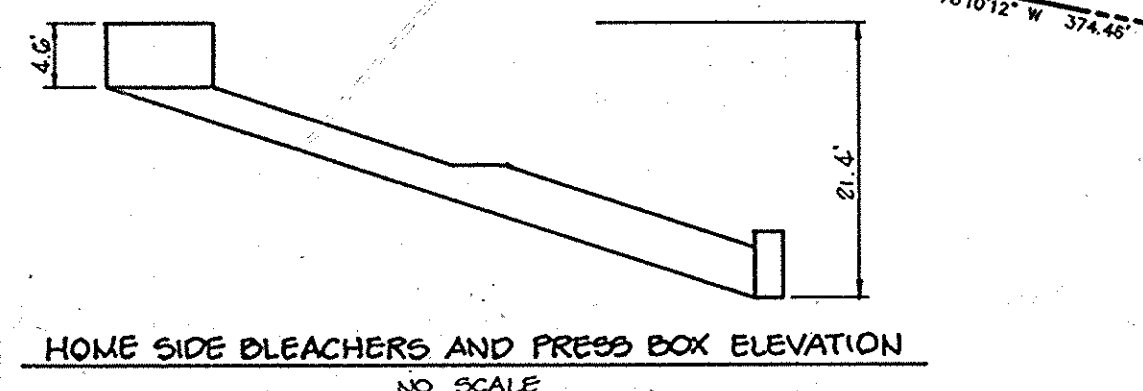
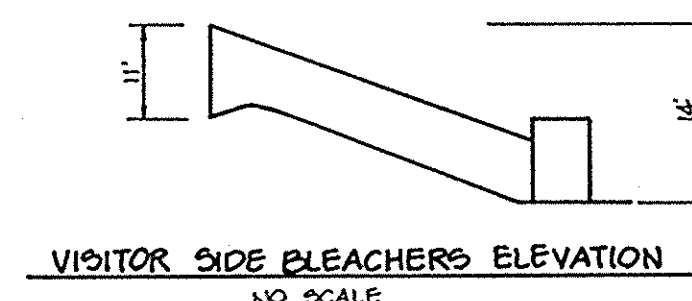
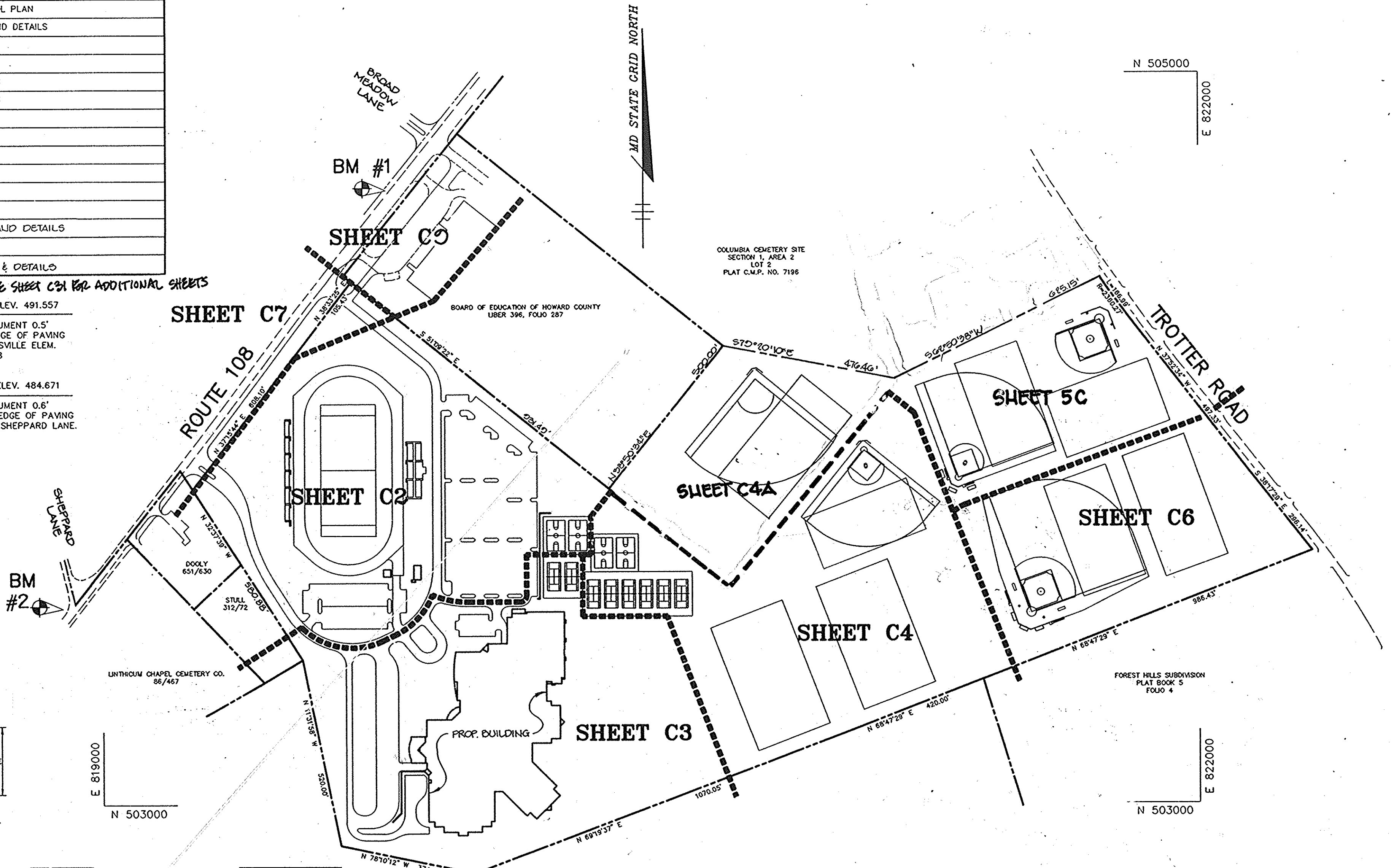
B.M. #2 ELEV. 484.671
 HO. CO. MON. #2037004. CONCRETE MONUMENT 0.5' BELOW SURFACE. 4.5' ± OFF NORTHWEST EDGE OF PAVING OF ROUTE 108, 42.2' ± SOUTHWEST OF C SHEPPARD LANE.

RIVER HILL WESTERN HIGH SCHOOL

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



- ### GENERAL NOTES
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, L.A. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1998 AMENDMENTS.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL TEST ALL EXISTING UTILITIES AT LEAST (3) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
 - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 - MISS UTILITY 1-800-257-7777
 - C&P TELEPHONE COMPANY 735-4976
 - HOWARD COUNTY BUREAU OF UTILITIES 313-4900
 - AT&T CABLE LOCATION DIVISION 393-3553
 - BALTIMORE GAS & ELECTRIC COMPANY 685-1233
 - STATE HIGHWAY ADMINISTRATION 531-5533
 - HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK) 792-2272
 - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS OR MSHA STD. AS SPECIFIED ON STRUCTURE SCHEDULE.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
 - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
 - TOPO TAKEN FROM FIELD RUN SURVEY DATED FEB. 1991 BY RIVER MUEGGE AND ASSOCIATES, INC. AND AERIAL SURVEY DATED MARCH, 1988 BY MAPPING ASSOCIATES.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL C201 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
 - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEWAGE AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE ORGANISMS OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
 - AN ELEVATOR IS PROVIDED WITHIN THE BUILDING.
 - THE BUILDING WILL BE PROVIDED WITH A SPRINKLER SYSTEM.
 - WP-02-151 IS A REQUEST TO WAIVE SECTION 16.1(D) WHICH REQUIRED THE SUBMISSION OF A PRELIMINARY PLAN OF SUBDIVISION TO ESTABLISH A SINGLE LOT FOR A SCHOOL SITE AND FROM SECTION 16.15 (1) (7) TO ALLOW DIRECT ACCESS ONTO MARYLAND ROUTE 108, A MINOR ARTERIAL HIGHWAY, WAS APPROVED ON MARCH 31, 1992.



Professional Certification. I hereby certify that these drawings were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16153, Expiration Date: 8-28-16
 For DESIGN 2 ONLY

SITE ANALYSIS

TOTAL AREA OF PARCEL	63.08 AC (2,747,765 SF)
PRESENT ZONING:	NEWTON: OPEN SPACE & SINGLE FAMILY LOW DENSITY
PROPOSED USE	HIGH SCHOOL & RELATED RECREATIONAL FACILITIES
FLOOR AREA	1ST LEVEL: 95,925 SF 2ND LEVEL: 158,200 SF
BUILDING COVERAGE PERMITTED	274,428 SF (5.3 AC) = 10% OF GROSS
BUILDING COVERAGE PROPOSED	158,200 SF (3.6 AC) = 5.13% OF GROSS
PARKING: BOARD OF EDUCATION REQUIREMENT	410 SPACES
PARKING PROVIDED	410 SPACES, INCLUDES 15 HANDICAPPED
OPEN SPACE:	48.38 AC
WETLANDS	0.35 AC
STEEP SLOPES (CREATED)	1.80 AC
STORMWATER MANAGEMENT	2.30 AC
NET OPEN SPACE	43.83 AC = 69.5% OF GROSS
AREA OF PARKING LOT	65,775 SF = 2.80 AC
AREA OF LANDSCAPED ISLANDS	6,574 SF = 0.23 OF PARKING AREA
AREA OF PRIVATE DRIVE	102,105 SF = 4.52 AC

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
1	12101 CLARKSVILLE PIKE

SUBDIVISION NAME	WESTERN HIGH SCHOOL	BLK # -	3 / 1	PARCEL -	1
PLAT #	0240 & 0241	BOOK # -	35	ELECT. DIST. -	5
WATER CODE -		SEWER CODE -		OWNER TRACT -	6055

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boudreau Esq.	8/25/92
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
Joseph R. Butler	8/27/92
DIRECTOR	DATE
William J. Johnson	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
James G. ...	8/27/92
DIRECTOR	DATE
William G. ...	8-27-92
CHIEF, BUREAU OF ENGINEERING	DATE

4-30-15 2. REVISED SHEET TOTAL & INDEX

1-19-92	1	REVISE 12 & ADD SHEET C1A TO TITLE PLAN
DATE	NO.	REVISION
OWNER	DEVELOPER	
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043	
PROJECT	RIVER HILL WESTERN HIGH SCHOOL	
AREA	TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	REVISED SITE DEVELOPMENT PLAN TITLE SHEET	

RIEMER MUEGGE & ASSOCIATES, INC.

A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

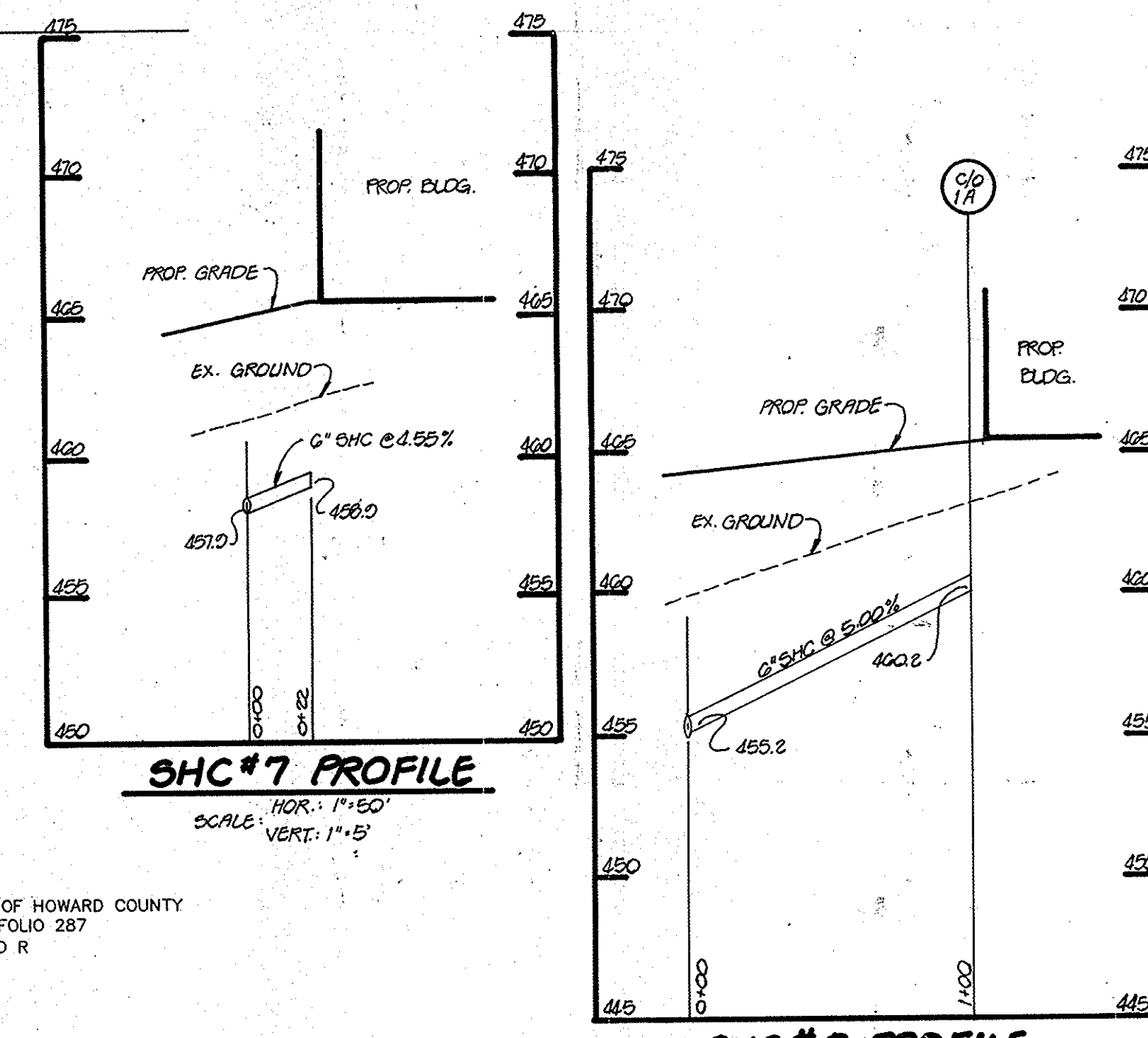
DATE	8-12-92	S-92-18; WP-92-151; PD-878; P-25-01
DESIGNED BY:	WCW	
DRAWN BY:	WCW	
PROJECT NO.:	80209	
DATE:	AUGUST 12, 1992	
SCALE:	AS SHOWN	
DRAWING NO.:	C1 OF 30	

LEGEND

- CONCRETE SIDEWALKS
- BITUMINOUS PATHWAY
SEE DETAIL SHEET 10

NOTES:

1. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.
2. * INDICATES TRANSITION FROM STANDARD TO REVERSE CURB & GUTTER.
3. ALL PAVING TO BE AS PER PAVING SECTION ON SHEET 10 UNLESS OTHERWISE NOTED.
4. SEE SHEETS 22423 FOR PROFILES AND DETAILS OF S.W.I.M.F. #1.
5. FOR SCHEMATIC DETAIL OF PRE-ENGINEERED RETAINING WALL, SEE SHEET C10A.



BOARD OF EDUCATION OF HOWARD COUNTY
LIBER 306, FOLIO 287
ZONED R

- NOTE:**
- 1) ALL SPOT ELEVATIONS ARE FOR FINISHED SURFACES.
 - 2) ALL RETAINING WALLS EXCEPT #5 ARE PRE-ENGINEERED SEE SPECIFICATIONS.
 - 3) FOR PROFILES OF RETAINING WALLS, SEE SHEET C10A.
 - 4) FOR LIGHT POLE TYPES AND SIZES SEE SHEETS E1 & E2.

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Boyland</i> 8/25/92 COUNTY HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. Smith</i> 8/27/92 DIRECTOR	DATE
<i>Anna J. Holmquist</i> 8/27/92 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James Z. Law</i> 8/27/92 DIRECTOR	DATE
<i>William E. Day</i> 8-27-92 CHIEF, BUREAU OF ENGINEERING	DATE
5/19/94 2 REVISED, PROP. CONCESSION STAND.	
5-26-93 1 ADDED SHC PROFILES	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISION SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
0-12-92 DATE	S-92-16, WP-92-151, PD-210. F-92-07
DESIGNED BY : WCW	
DRAWN BY : WCW	
PROJECT NO : 80209	
DATE : AUGUST 12, 1992	
SCALE : AS SHOWN	
DRAWING NO. 'C2' OF 30	

4-30-15 REV. 3
REVISION SHEET TOTAL
SCHOOL NAME

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 31, 1992

Richard G. Gable
REVISIONS
FISHER COLLINS & CARTER INC.

PLAN
SCALE: 1"=40'

NOTE: THE PURPOSE OF THIS REVISION IS TO ADD EXISTING SCOREBOARDS TO PLAY FIELDS.

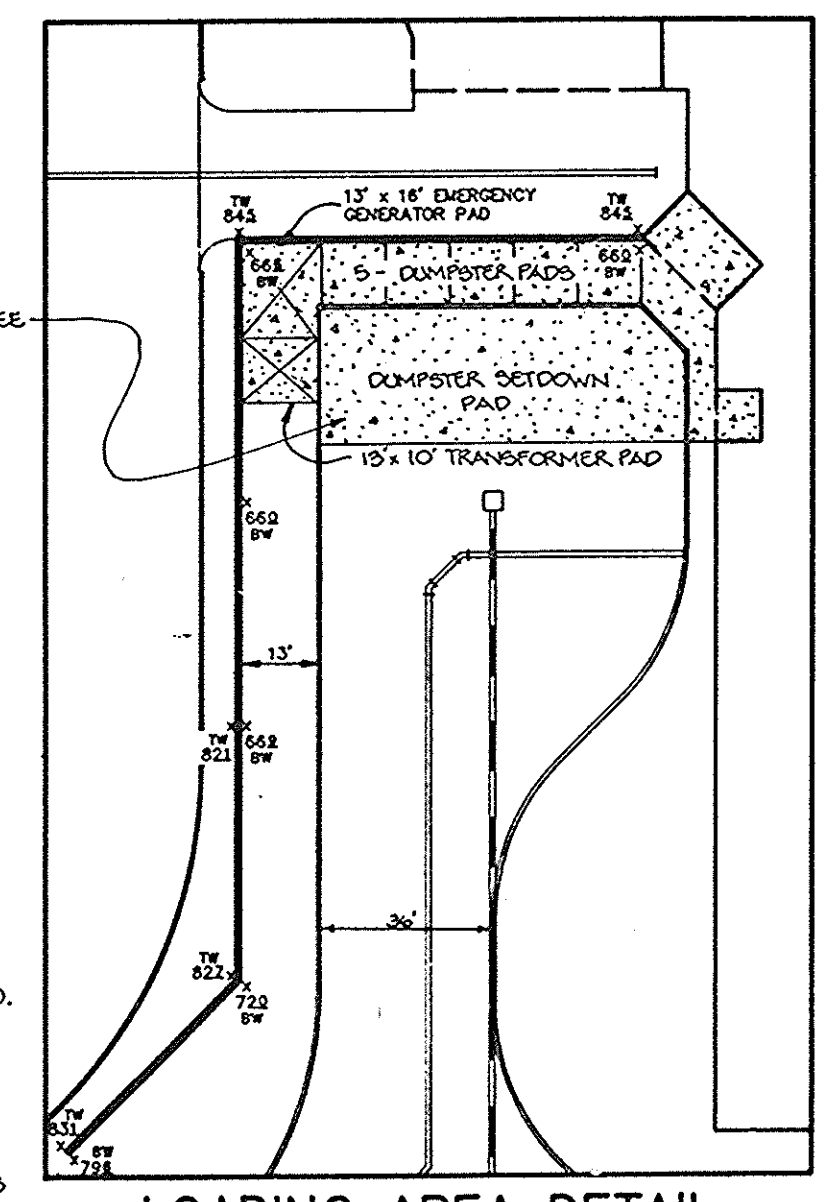
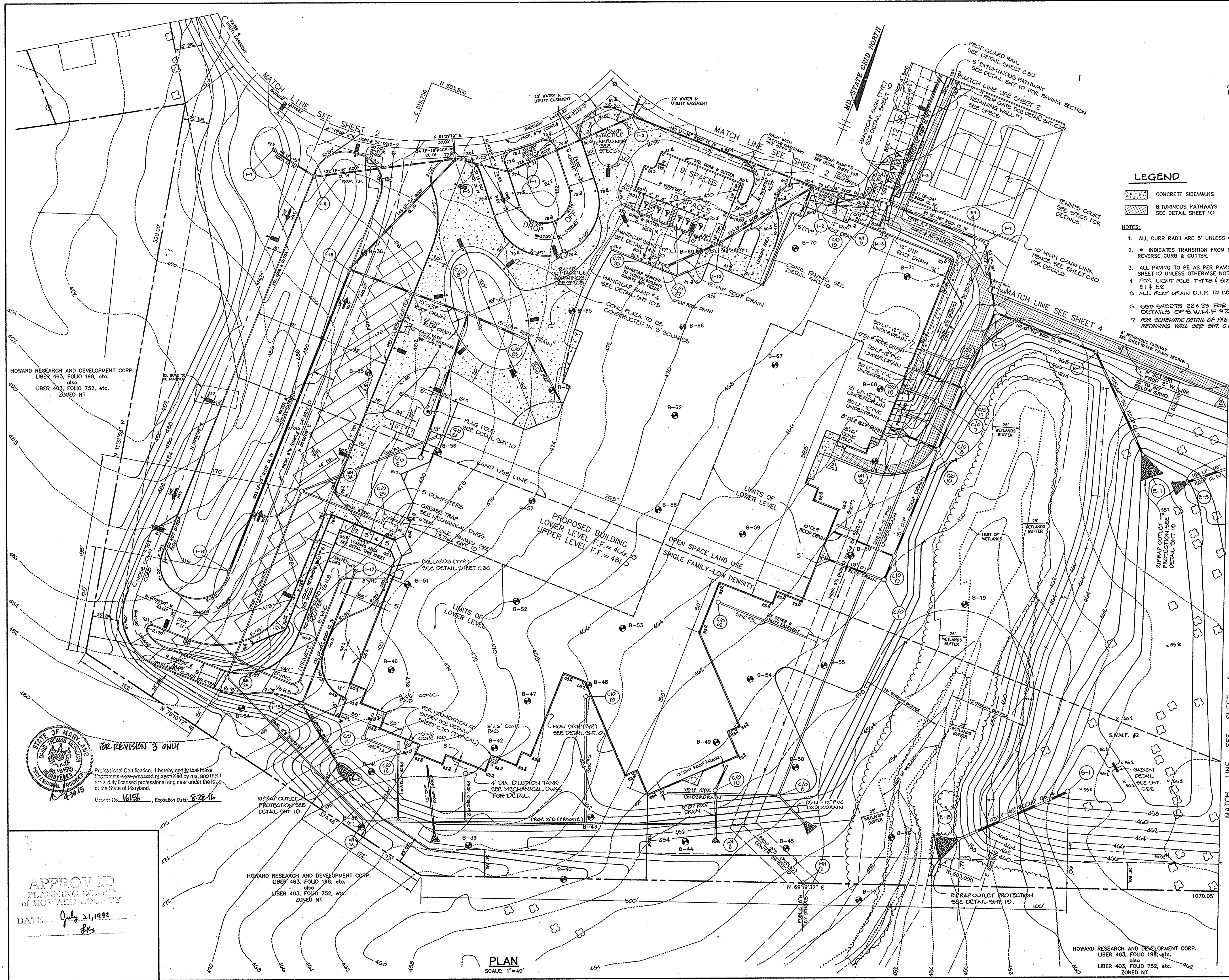
DATE	REVISION
8/20/92	ADDED SCOREBOARDS



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16152, Expiration Date: 8-28-96
REV REVISION 3 ONLY



ARTHUR E. MUEGGE #8707



LEGEND

- CONCRETE SIDEWALKS
- BITUMINOUS PATHWAYS

- NOTES:**
1. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. * INDICATES TRANSITION FROM STANDARD TO REVERSE CURB & GUTTER.
 3. ALL PAVING TO BE AS PER PAVING SECTION ON SHEET 10 UNLESS OTHERWISE NOTED.
 4. FOR LIGHT POLE TYPES & SIZES SEE SHEETS E1 & E2.
 5. ALL ROOF DRAIN D.I.F. TO BE CL EX2.
 6. SEE SHEETS 22 & 23 FOR PROFILES AND DETAILS OF S.W.M.F. #2.
 7. FOR SCHEMATIC DETAIL OF PRE-ENGINEERED RETAINING WALL SEE SHT. C10A.

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Boyd</i> COUNTY HEALTH OFFICER	8/25/92 DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. Smith</i> DIRECTOR	8/27/92 DATE
<i>Anna H. Hildner</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	9/27/92 DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James M. Boyd</i> DIRECTOR	8/27/92 DATE
<i>William S. Kelly</i> CHIEF BUREAU OF ENGINEERING	8-27-92 DATE
4-29-93 2 ADDED 2" W. LINE	
5-27-93 1 REV. WHC, SHC'S & ROOF DRAIN LOCATIONS	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. LIBER 463, FOLIO 198, etc. also LIBER 403, FOLIO 752, etc. ZONED NT	BOARD OF EDUCATION OF HOWARD COUNTY 10725 LITTLE PATRIMENT PARKWAY COLUMBIA, MARYLAND 21044

PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8618 Centre Park Drive • Suite 200 • Columbia, Md 21046 410-997-8900 FAX : 410-997-9282	
8-12-92 DATE	DESIGNED BY : WCW
	DRAWN BY : WCW
	PROJECT NO : 80209
	DATE : AUGUST 12, 1992
	SCALE : AS SHOWN
	DRAWING NO. C3 OF 30

FOR REVISION 3 ONLY

Professional Certification. I hereby certify that these documents were prepared or supervised by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 16156, Expiration Date: 8-28-16

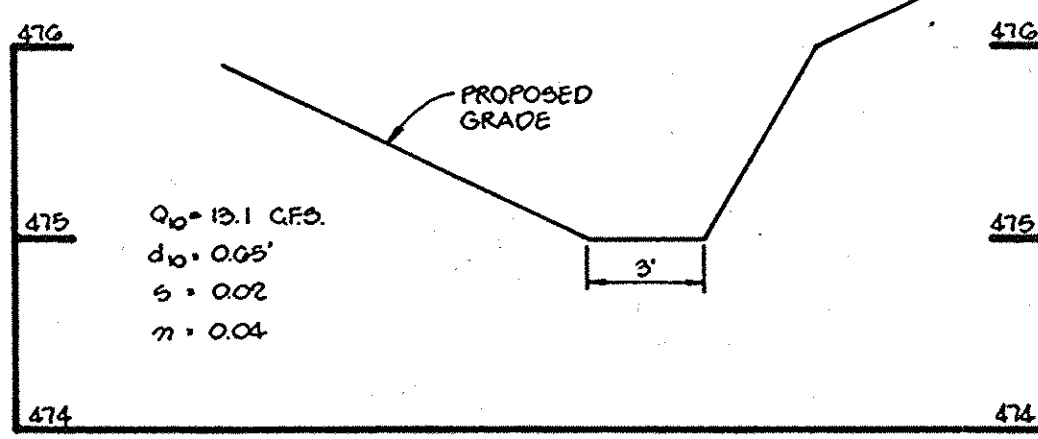
APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE July 21, 1992
RKS

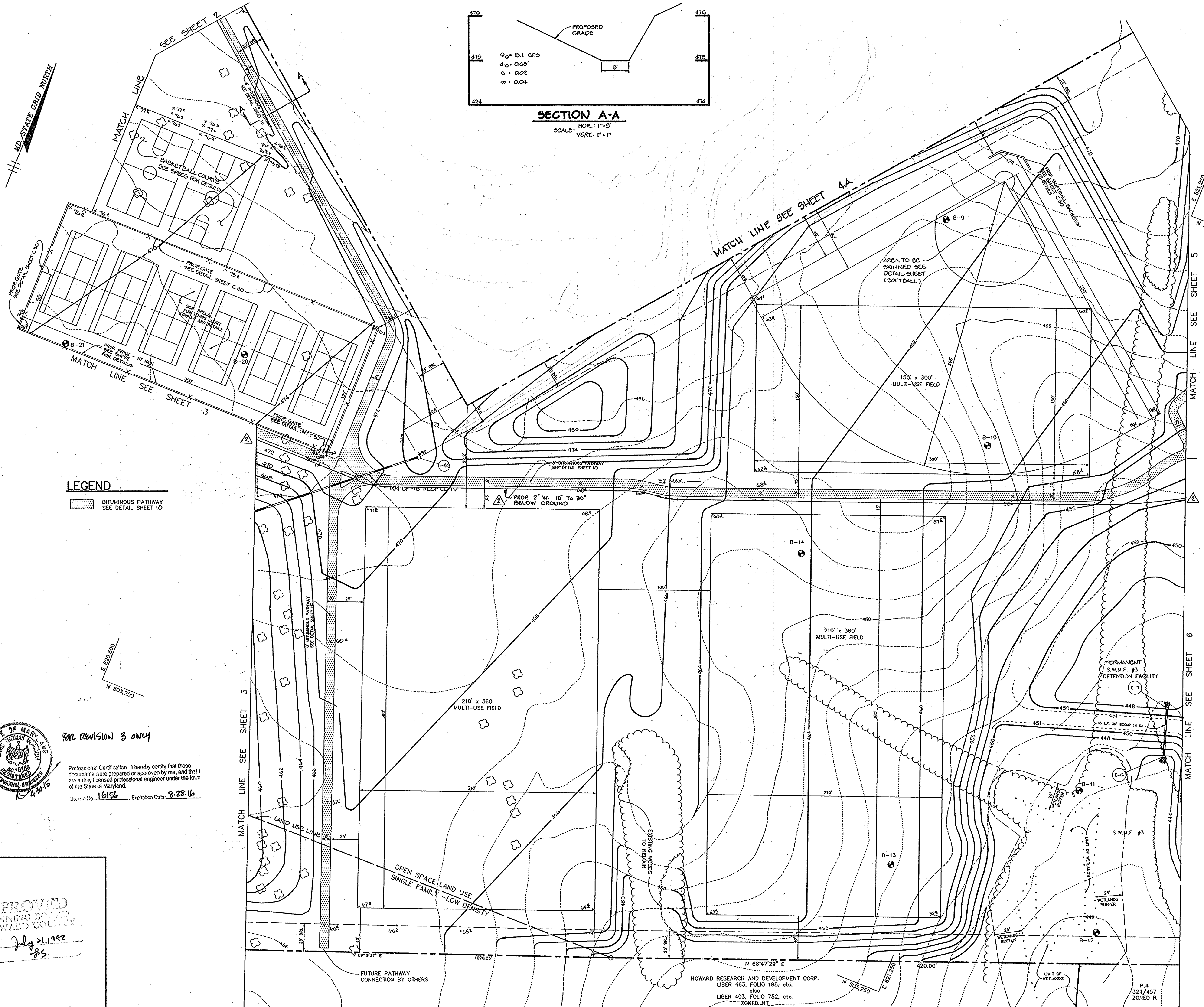
HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT

HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT



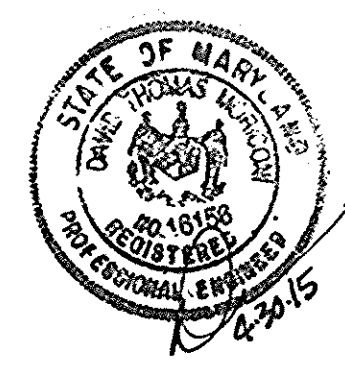


SECTION A-A
 HOR. : 1" = 25'
 VERT. : 1" = 1'



LEGEND
 BITUMINOUS PATHWAY
 SEE DETAIL SHEET 10

FOR REVISION 3 ONLY



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16150, Expiration Date: 8-28-16

APPROVED
 PLANNING BOARD
 of HOWARD COUNTY
 DATE July 21, 1992
 J.S.

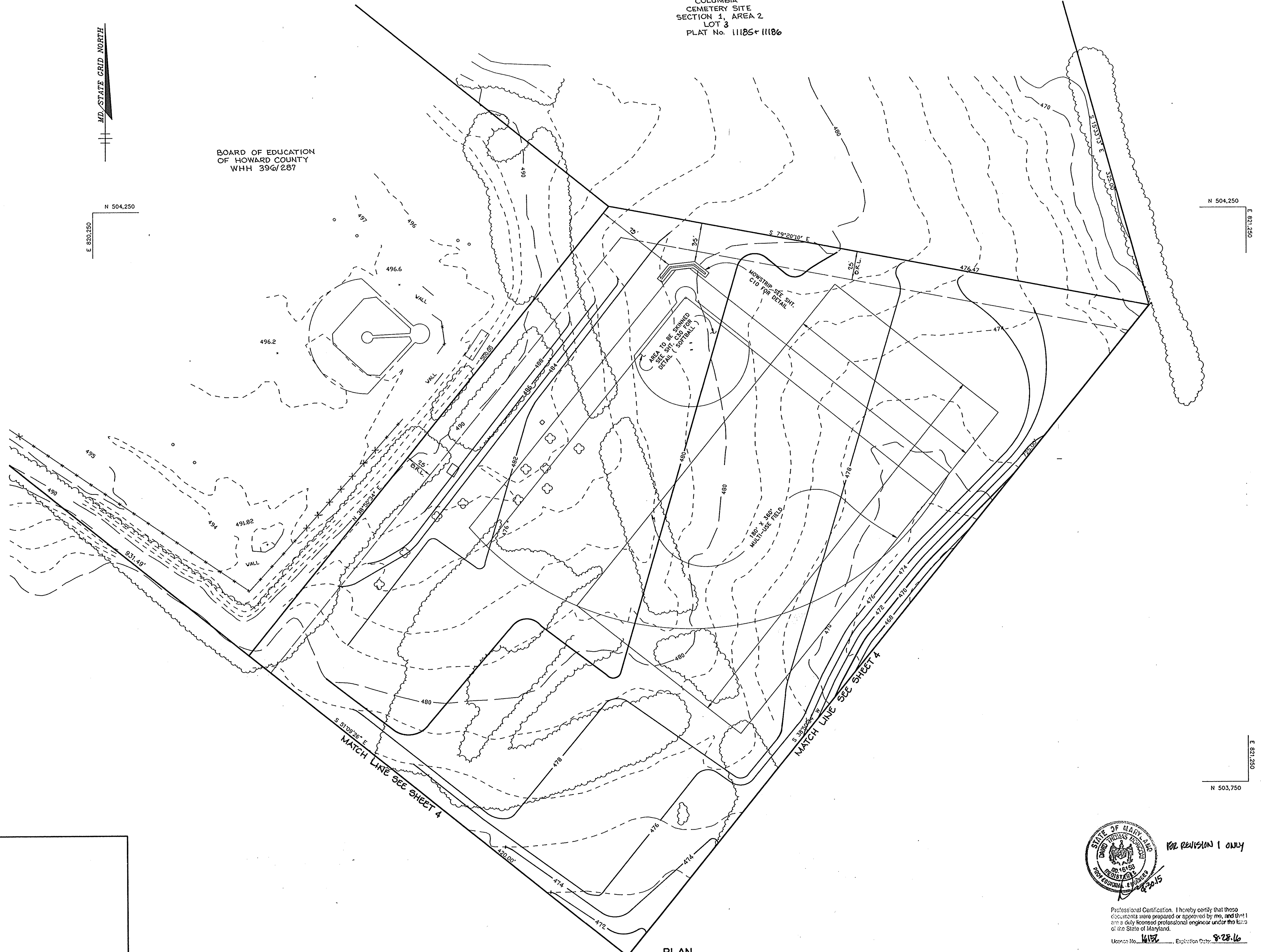
AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boyd per J.S.	8/25/92
COUNTY HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
Jorge A. Butler	8/27/92
DIRECTOR	DATE
Shirley J. Hubbard	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
Lance M. Linn	8/27/92
DIRECTOR	DATE
Michael S. Remy	8-27-92
CHIEF, BUREAU OF ENGINEERING	DATE
4-29-97 2 ADDED 2" W. LINE	
1-15-94 1 REVISED TO MATCH LINE	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
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RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
8-12-92 DATE	8-12-92, WP-02-151, PD-018, P-29-01
DESIGNED BY : WCV	
DRAWN BY : WCV	
PROJECT NO : 80209	
DATE : AUGUST 12, 1992	
SCALE : AS SHOWN	
DRAWING NO. C4 OF 30	

HOWARD RESEARCH AND DEVELOPMENT CORP.
 LIBER 463, FOLIO 185, etc.
 also
 LIBER 403, FOLIO 752, etc.
 ZONED-INT

COLUMBIA
CEMETERY SITE
SECTION 1, AREA 2
LOT 3
PLAT No. 11185+11186

MD STATE GRID NORTH

BOARD OF EDUCATION
OF HOWARD COUNTY
WHH 396/287



PLAN
SCALE: 1"=40'





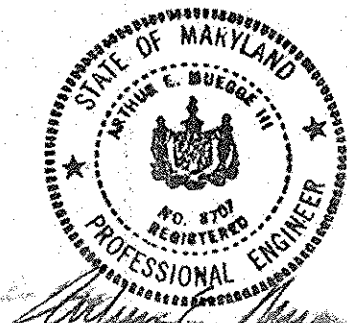
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16152 Exp. Date 8-28-16

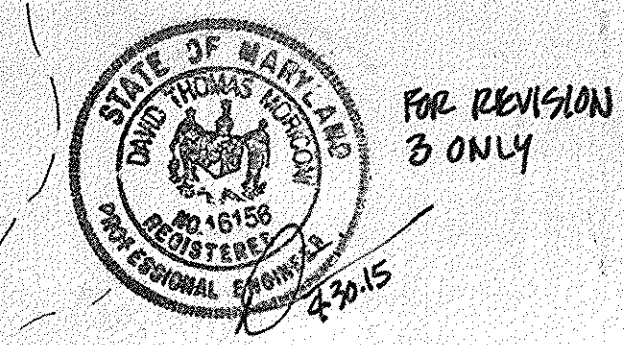
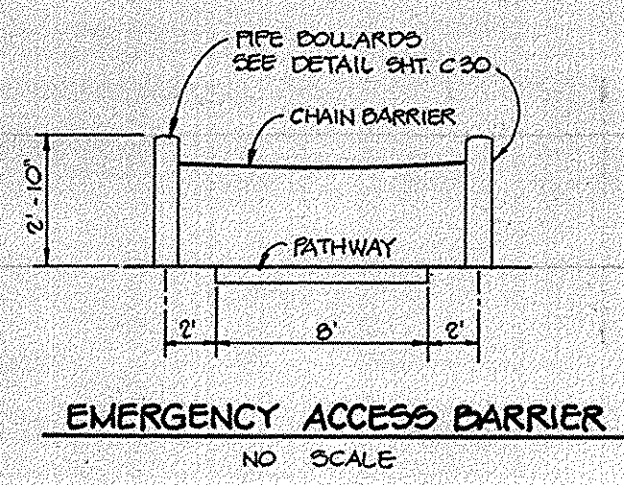
AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James B. Smith</i>	4/29/94
DIRECTOR	DATE
<i>Gina J. Jaramila</i>	4/27/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James P. Fran</i>	4/21/94
DIRECTOR	DATE
<i>Charles D. Egan</i>	4/20/94
CHIEF, BUREAU OF ENGINEERING	DATE
4-20-15	REVISED SHEET TOTAL & SCHOOL NAME
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-8282	
1-29-94	DATE
<i>Arthur E. Muegge</i>	DESIGNED BY: WCW
ARTHUR E. MUEGGE #8707	DRAWN BY: WCW
	PROJECT NO: 80209
	DATE:
	SCALE: AS SHOWN
	DRAWING NO. 4A OF 30



LEGEND

-  BITUMINOUS PATHWAY
SEE DETAIL SHEET 10
-  CONCRETE SIDEWALK
SEE DETAIL SHEET 10

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joyce M. Boardman</i> JOYCE M. BOARDMAN	8/25/92 DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Jacob B. Rutter</i> DIRECTOR	8/27/92 DATE
<i>Amuna H. Lomax</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/27/92 DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James P. Law</i> DIRECTOR	8/27/92 DATE
<i>William S. Reidy</i> CHIEF, BUREAU OF ENGINEERING	8-27-92 DATE
1-15-97 2 REVISION 2: MATCH LINE	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1, 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
DATE 8-12-92	S-92-16; WP-92-151; PD-278; F-28-C1
DESIGNED BY : CB	
DRAWN BY : CB	
PROJECT NO : 80209	
DATE : AUGUST 12, 1992	
SCALE : AS SHOWN	
DRAWING NO. C.5 OF 30	
 ARTHUR E. MUEGGE #8707	



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16156, Expiration Date: 8-28-16

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE July 21, 1992
 JS

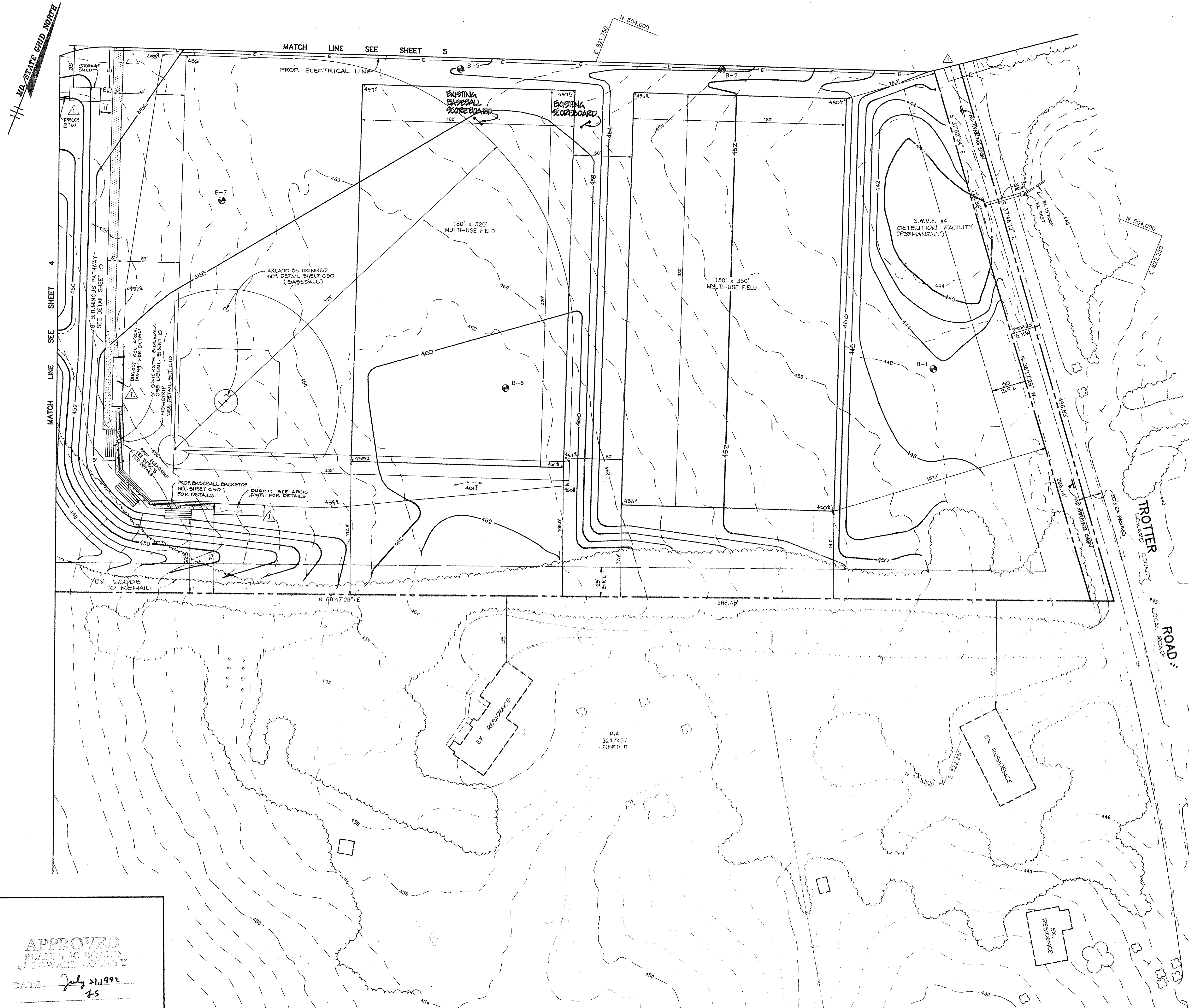
CONCRETE SIDEWALK SEE DETAIL SHEET C-10
 PROP. BACKSTOP SEE SHEET C-30 FOR DETAILS
 PROP. BLEACHERS SEE SHEET C-10 FOR DETAILS

NOTE: THE PURPOSE OF THIS REDLINE IS TO ADD SCOREBOARDS FOR PLAY FIELDS.

PLAN
 SCALE: 1" = 40'

DATE	ADDED SCOREBOARDS
	REVISION

30'-30' EMERGENCY ACCESS ONLY SIGN, SEE FEDERAL HIGHWAY ADMINISTRATION TRAFFIC CONTROL DEVICES HANDBOOK FOR DETAILS
 EMERGENCY ACCESS ONLY ACCESS BARRIER, SEE DETAIL THIS SHEET



LEGEND

- BITUMINOUS PATHWAY
SEE DETAIL SHEET 10
- CONCRETE SIDEWALK
SEE DETAIL SHEET 10

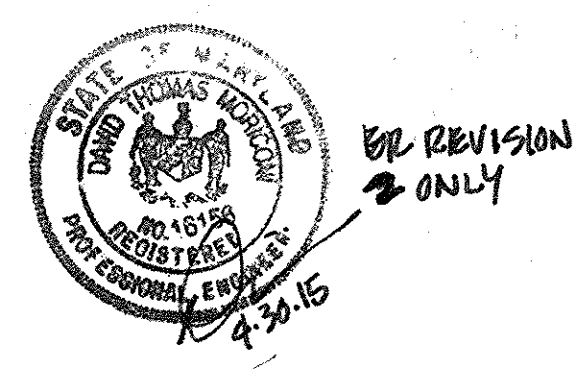
APPROVED
PLANNING BOARD
HOWARD COUNTY

DATE July 21, 1992
ES

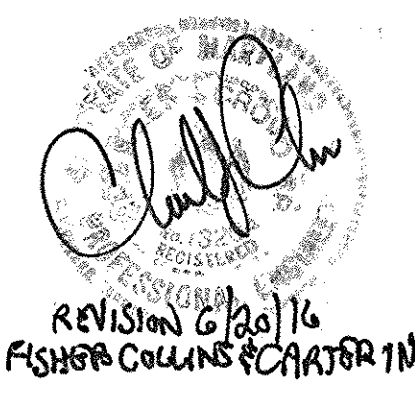
PLAN
SCALE: 1"=40'

NOTE: THE PURPOSE OF THIS REDLINE IS
TO ADD SCOREBOARDS FOR PLAY FIELDS

08/20/16 ADDED SCOREBOARDS
DATE REVISION



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156 Expiration Date: 8-28-16



REVISION 08/20/16
FISHER COLINS REGISTER NO.

AS BUILT CERTIFICATE		
ARTHUR E. MUEGGE #8707	DATE	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joyce M. Boyd</i> <u>8/25/92</u>	DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>Joseph S. Butts</i> <u>8/27/92</u>	DATE	
<i>Annunziata Helms</i> <u>8/27/92</u>	DATE	
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.		
<i>James J. Sun</i> <u>8/27/92</u>	DATE	
<i>William E. Riley</i> <u>8-27-92</u>	DATE	
0-20-15 2 REVISED SHEET TOTAL & SCHOOL NAME 2-29-97 1 ADDED STONE SHED & ELECT. LINE. ADDED BLEACHERS		
DATE	NO.	REVISION
OWNER	DEVELOPER	
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043	
PROJECT RIVER HILL WESTERN HIGH SCHOOL		
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE SITE DEVELOPMENT PLAN		
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282		
DATE	DESIGNED BY	
8-12-92	CB	
DATE	DRAWN BY	
8-22-91	CB	
DATE	PROJECT NO.	
AUGUST 12, 1992	80209	
SCALE	DRAWING NO.	
1"=40'	C 6 OF 20	
DATE	REVISION	
08/20/16	ADDED SCOREBOARDS	

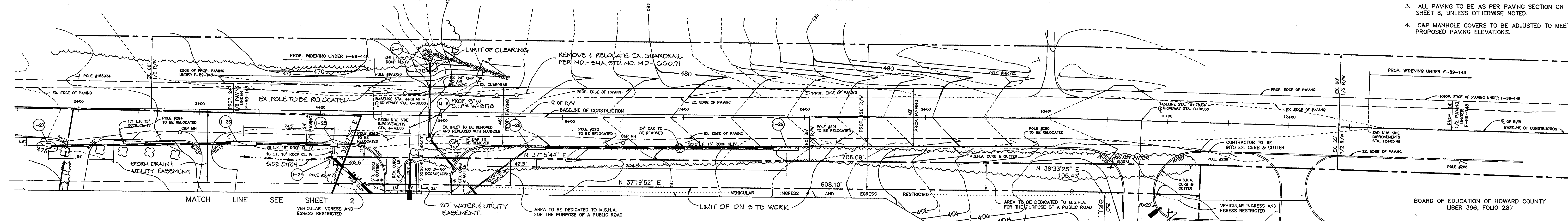
LEGEND

NOTES:

1. ALL CURB RADI ARE 5' UNLESS OTHERWISE NOTED.
2. * INDICATES TRANSITION FROM STANDARD TO M.S.H.A. CURB & GUTTER.
3. ALL PAVING TO BE AS PER PAVING SECTION ON SHEET 8, UNLESS OTHERWISE NOTED.
4. C&P MANHOLE COVERS TO BE ADJUSTED TO MEET PROPOSED PAVING ELEVATIONS.

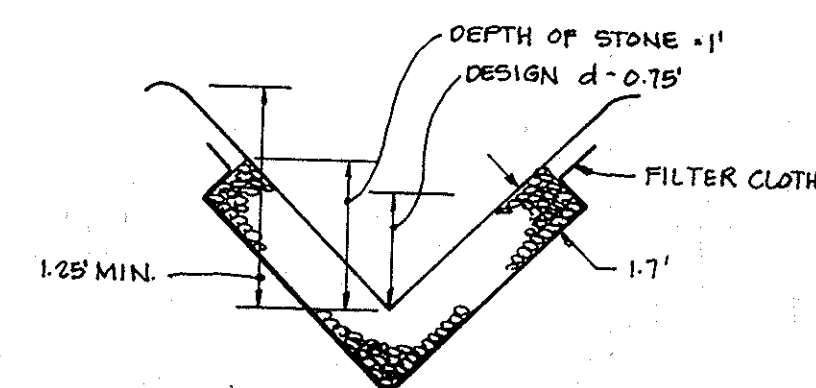
MARYLAND ROUTE 108
MARYLAND STATE ROAD - MINOR ARTERIAL

NOTE: PROP. ON-SITE 8' W TO BE CONNECTED TO THE PROP. 12' W UNDER CAPITOL PROJECT No. W-8178 ALONG RTE. 108.



PLAN

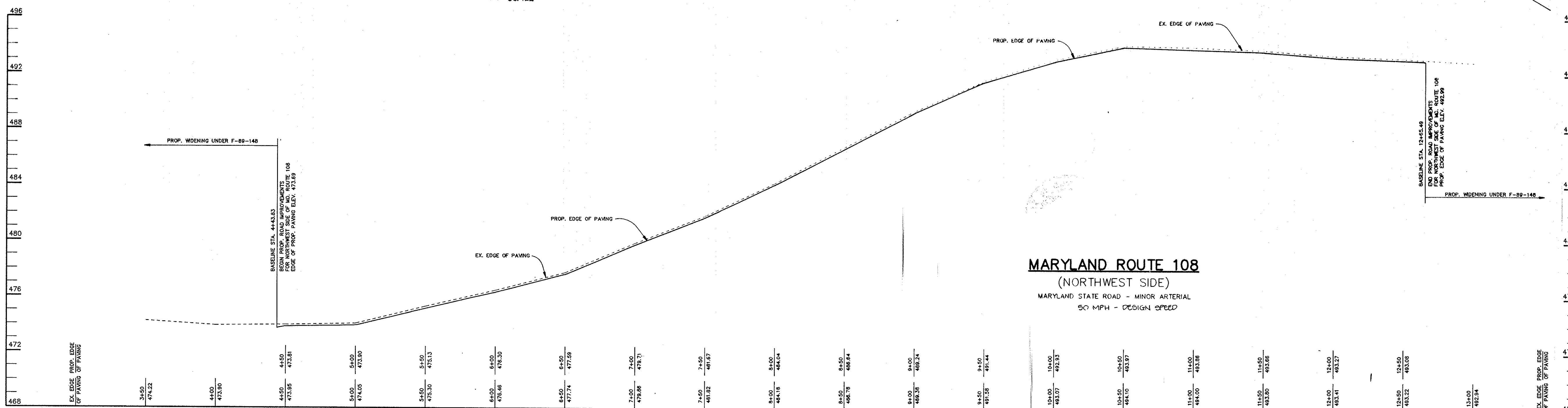
SCALE: 1"=40'



SECTION A-A

NO SCALE

- Q = 3.5 CFS
- A = 1.13
- P = 3.3G
- T = 0.34
- T₁ = 0.48
- S = 0.1251
- S₁ = 0.35
- V = 0.0317 (FROM M.S.H.A. G.I. - 445.1)
- V₁ = 0.03 FFS
- RIPRAP d₅₀ = 0.75'
- STONE THICKNESS = 1.7'
- MAX. V = 3.0 FFS
- Q_{MAX} = 7.9 CFS



MARYLAND ROUTE 108
(NORTHWEST SIDE)
MARYLAND STATE ROAD - MINOR ARTERIAL
50 MPH - DESIGN SPEED

PROFILE

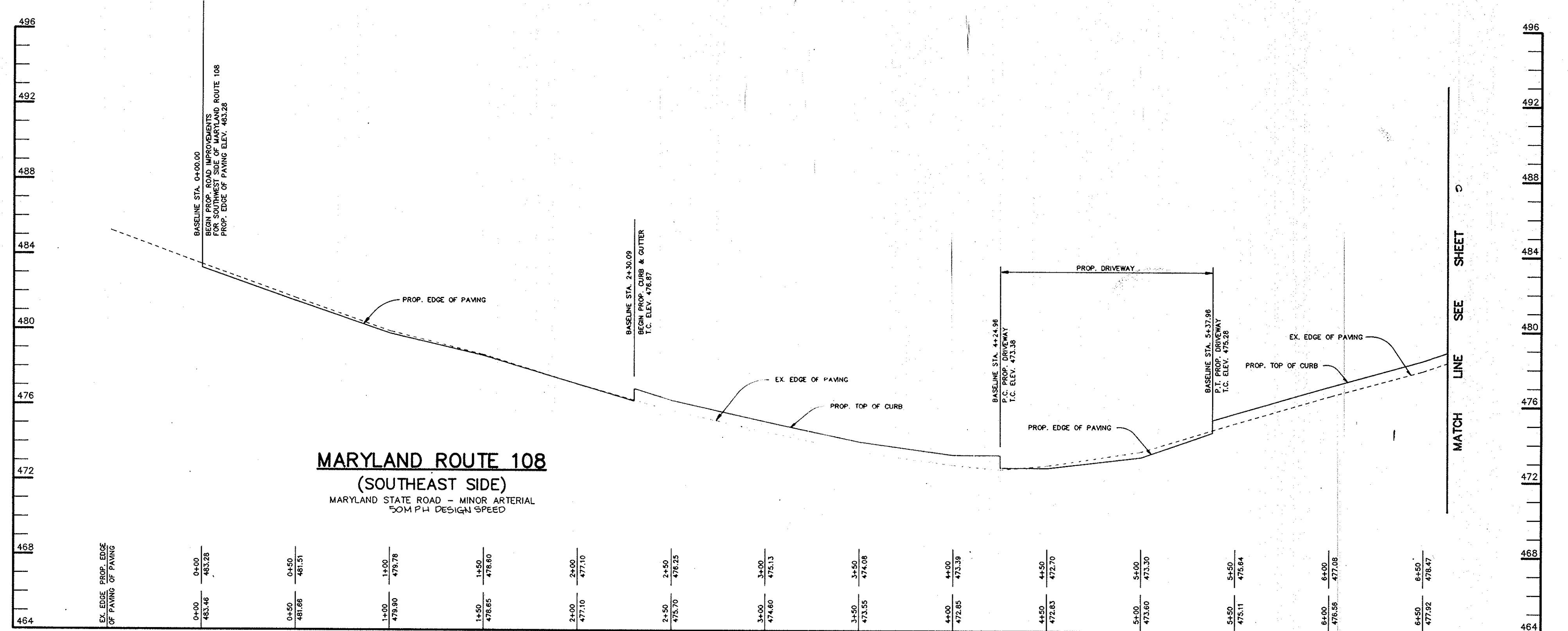
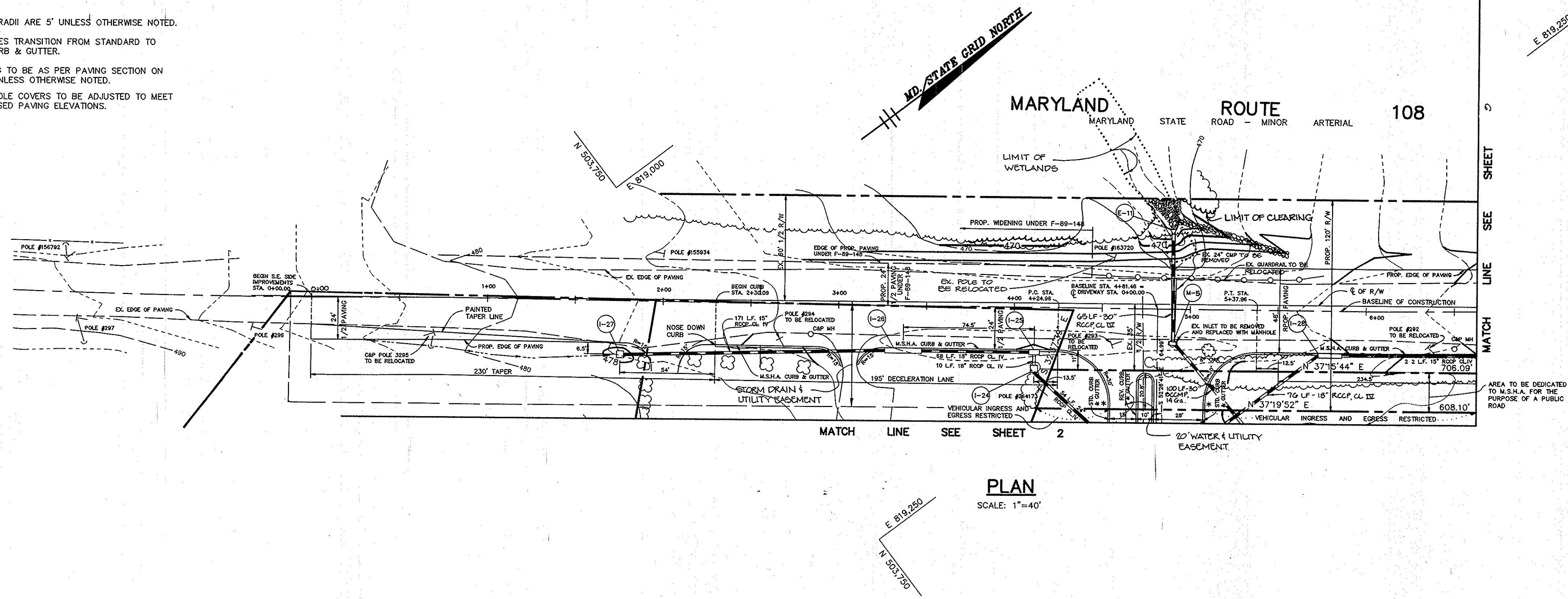
SCALE:
HOR. - 1"=40'
VERT. - 1"=4'

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joseph M. Boyd</i> COUNTY HEALTH OFFICER	8/25/92 DATE
APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. Ruth</i> DIRECTOR	8/27/92 DATE
<i>Emmanuel Hulmar</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/27/92 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James M. Law</i> DIRECTOR	8/27/92 DATE
<i>James M. Law</i> CHIEF, BUREAU OF ENGINEERING	8/27/92 DATE
4-20-15 REVISED SHEET TOTAL & SHEET NAME	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE PLAN AND PROFILE MARYLAND ROUTE 108 (NORTHWEST SIDE) STA. 4+43.83 TO STA. 12+65.49	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
DATE 8-10-92	DESIGNED BY: JJB
DATE 8-10-92	DRAWN BY: WCW
DATE AUGUST 10, 1992	PROJECT NO: 80209
SCALE: AS SHOWN	DATE: AUGUST 10, 1992
DRAWING NO. C7 OF 39	DATE: AUGUST 10, 1992

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
[Signature]

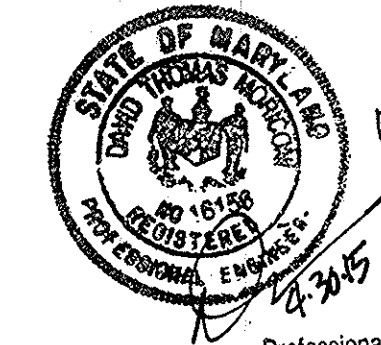
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Licensure No. 16156 Expiration Date: 8-28-16
FOR REVISION 1 ONLY

- NOTES:
1. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. * INDICATES TRANSITION FROM STANDARD TO M.S.H.A. CURB & GUTTER.
 3. ALL PAVING TO BE AS PER PAVING SECTION ON SHEET 10, UNLESS OTHERWISE NOTED.
 4. CAP MANHOLE COVERS TO BE ADJUSTED TO MEET THE PROPOSED PAVING ELEVATIONS.



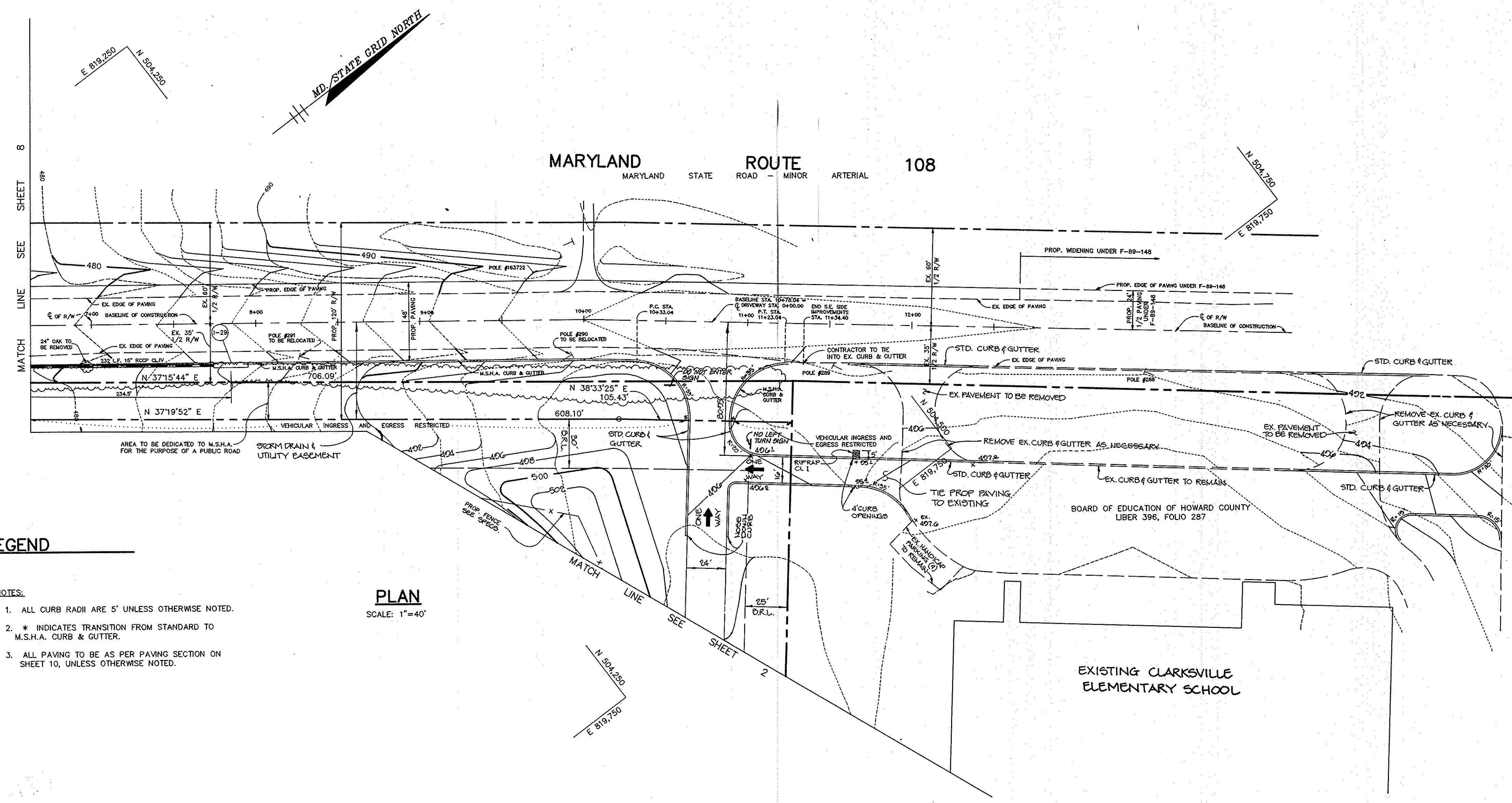
PROFILE
SCALE:
HOR. - 1"=40'
VERT. - 1"=4'

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
SS



FOR REVISION 1 ONLY
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Licenses No. 16156 Expiration Date: 8-28-16

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Boyd</i> COUNTY HEALTH OFFICER	8/25/92 DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>August S. Smith</i> DIRECTOR	8/27/92 DATE
<i>Anna J. Hlombach</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/27/92 DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James J. Hill</i> DIRECTOR	8/27/92 DATE
<i>James J. Hill</i> CHIEF, BUREAU OF ENGINEERING	8-27-92 DATE
4-30-15	REVISED SHEET TOTAL 3 SCHOOL NAME
DATE NO.	DEVELOPER
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE PLAN AND PROFILE MARYLAND ROUTE 108 (SOUTHEAST SIDE) STA. 0+00.00 TO STA. 6+62.84	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
DATE 8-12-92	DESIGNED BY : JJB
DATE AUGUST 12, 1992	DRAWN BY : CB
SCALE : AS SHOWN	PROJECT NO : 80209
ARTHUR E. MUEGGE #8707	DATE AUGUST 12, 1992
	SCALE : AS SHOWN
	DRAWING NO. C.B. OF 29

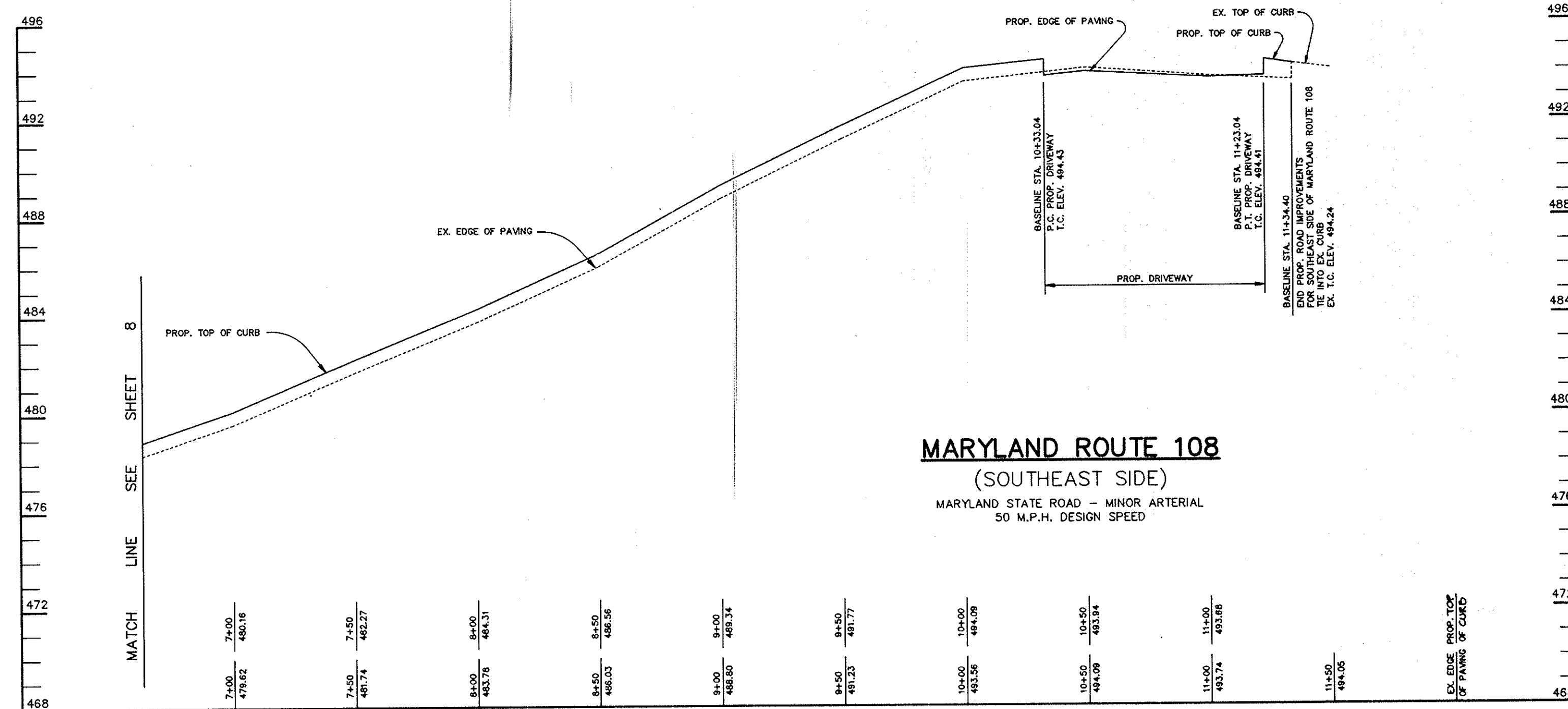


LEGEND

NOTES:

1. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.
2. * INDICATES TRANSITION FROM STANDARD TO M.S.H.A. CURB & GUTTER.
3. ALL PAVING TO BE AS PER PAVING SECTION ON SHEET 10, UNLESS OTHERWISE NOTED.

PLAN
SCALE: 1"=40'



PROFILE
SCALE:
HOR. - 1"=40'
VERT. - 1"=4'



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156, Expiration Date: 8-28-16

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: July 21, 1992
JES

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd per *JES* 8/25/92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Joseph R. Rutter 8/27/92
DIRECTOR DATE
Elmira H. Hornath 8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
James M. Boyd 8/27/92
DIRECTOR DATE
James M. Boyd 8/27/92
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
4-31-92	1	REVISED SHEET TOTAL & SCHOOL NAME

OWNER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	DEVELOPER BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
--	--

PROJECT: RIVER HILL WESTERN HIGH SCHOOL

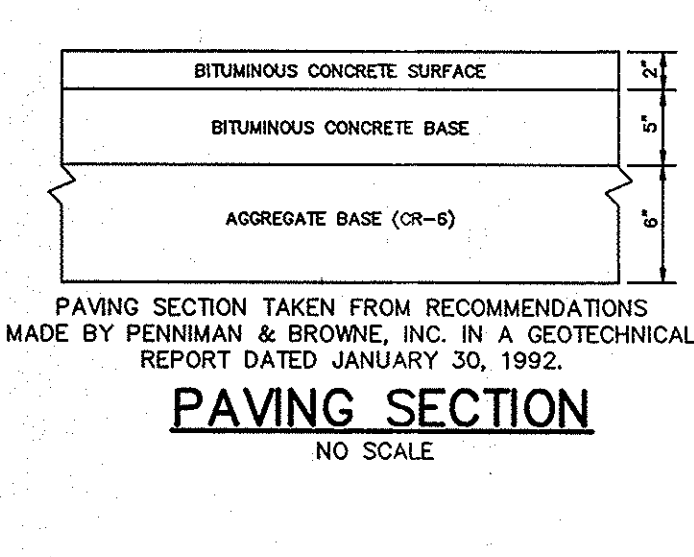
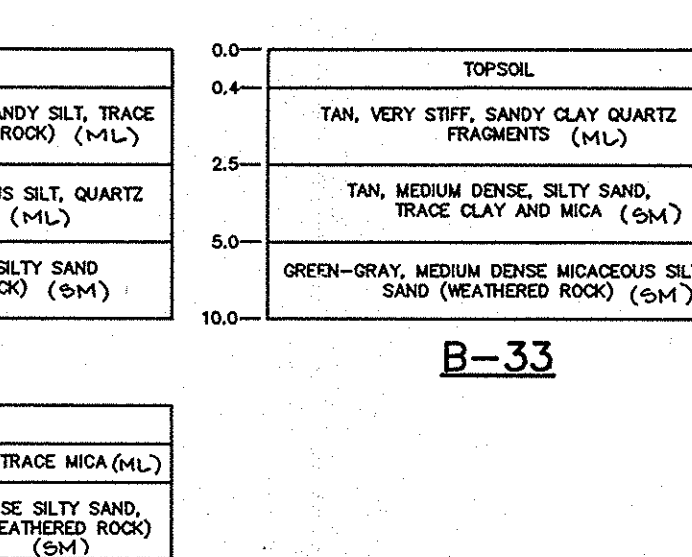
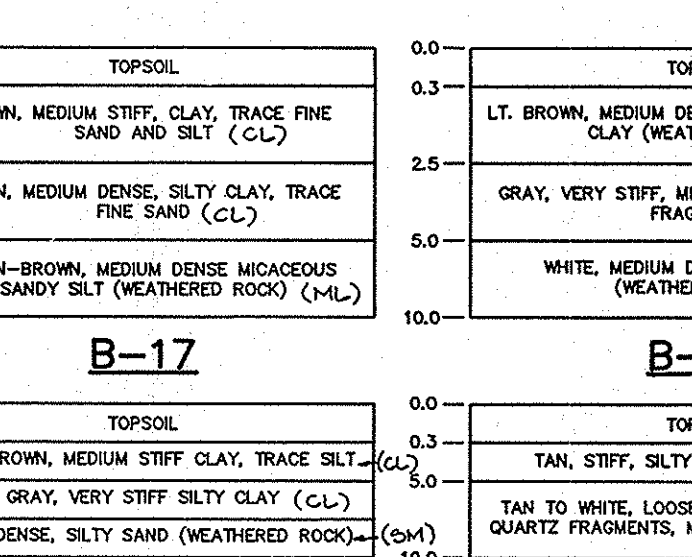
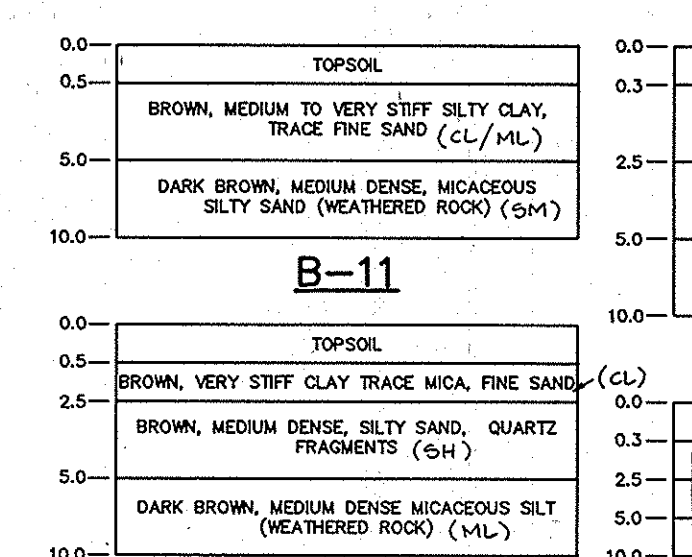
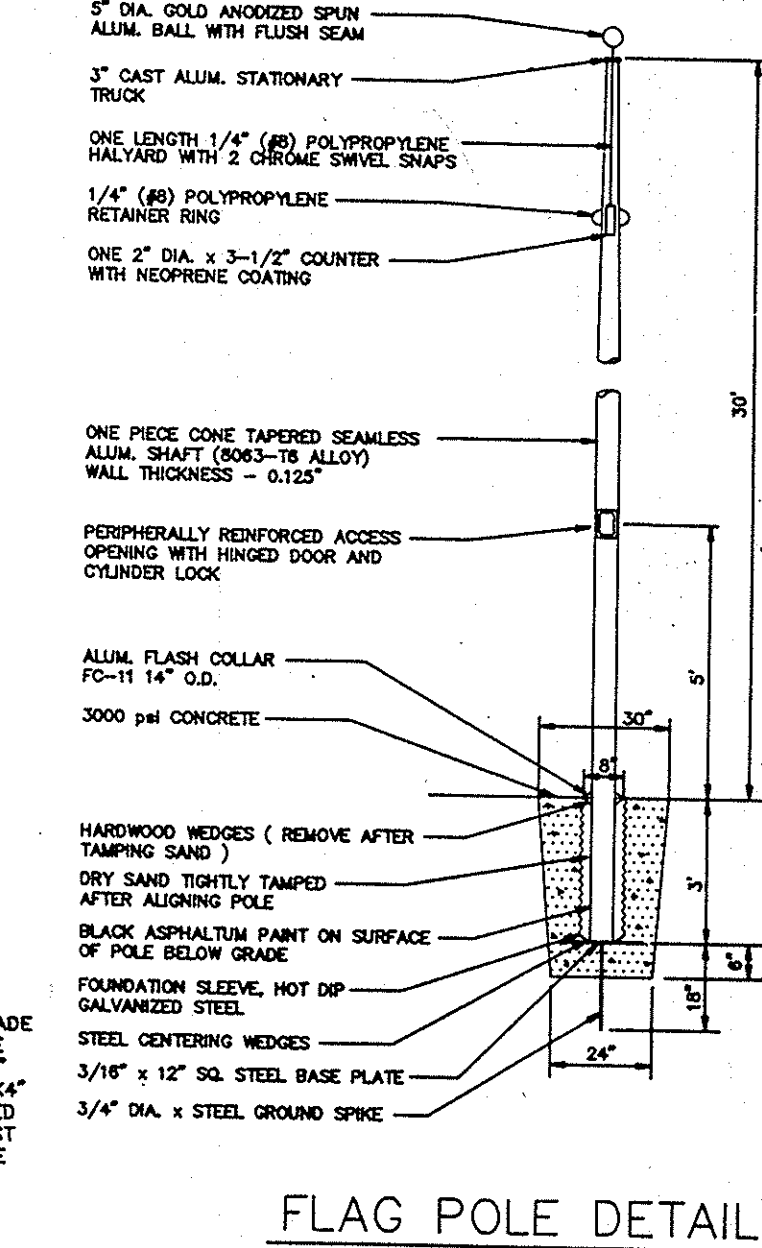
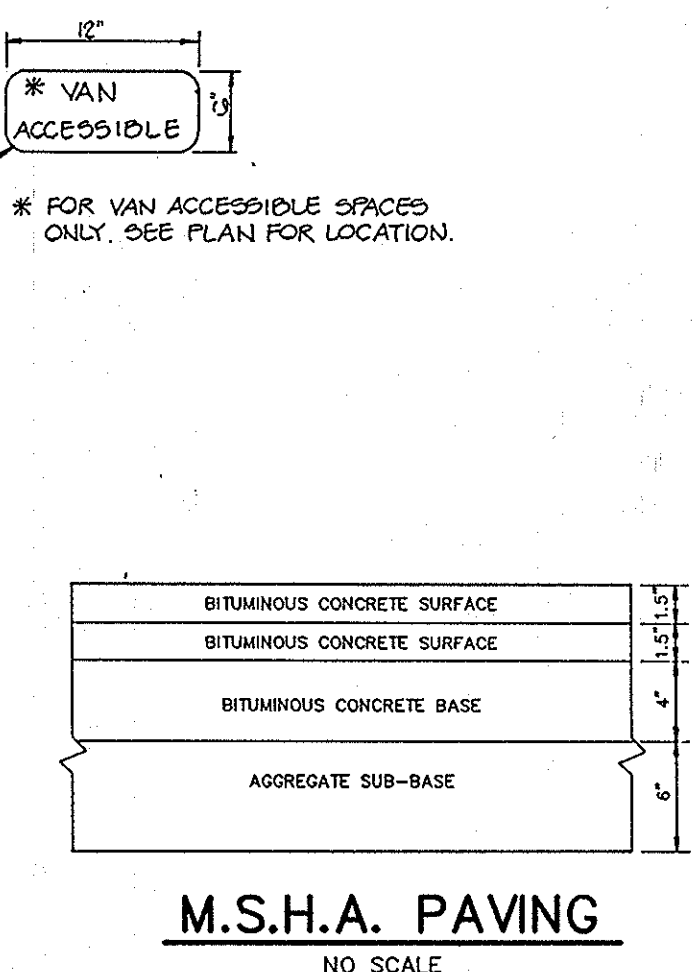
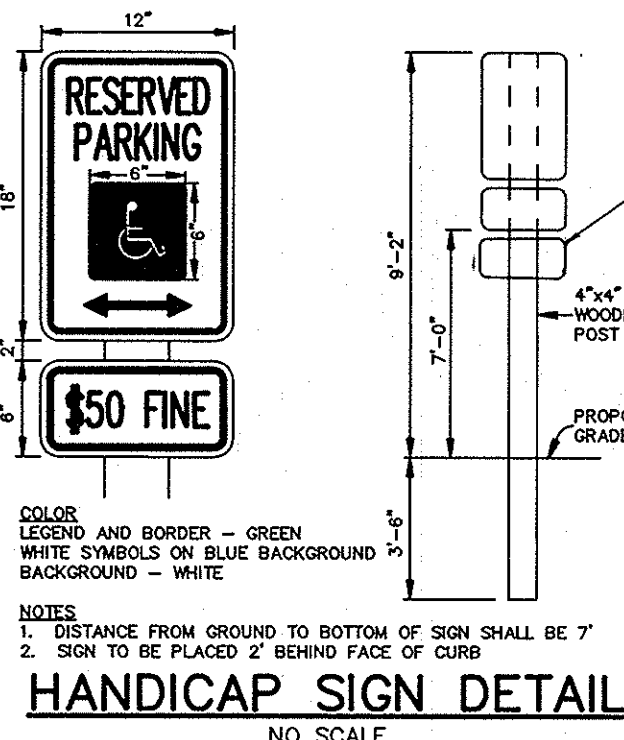
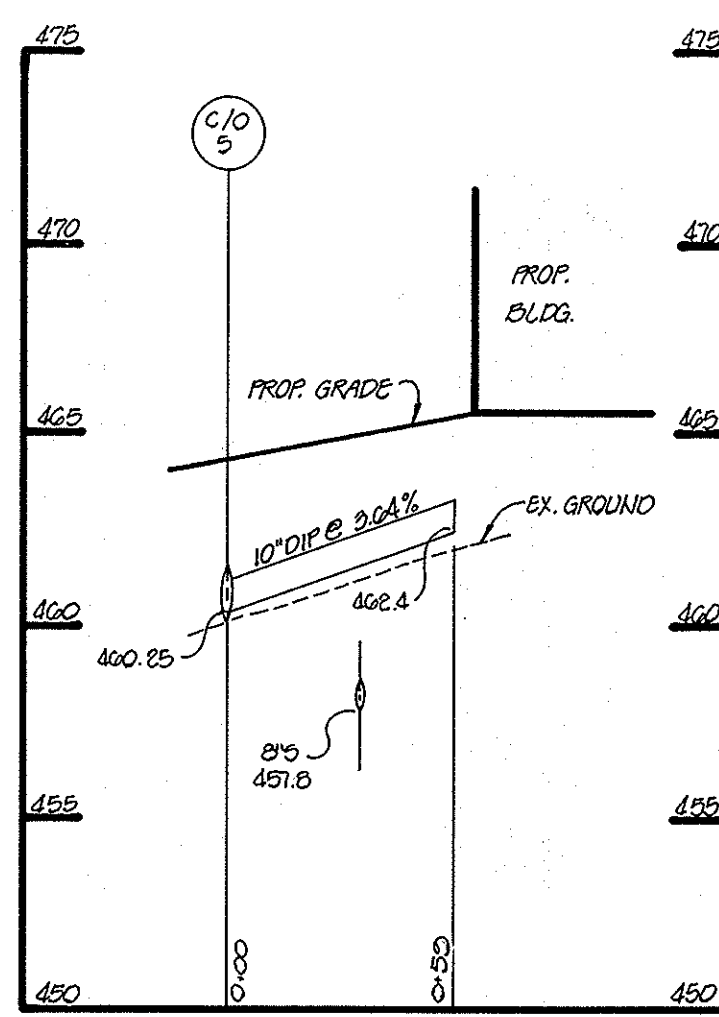
AREA: TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: PLAN AND PROFILE MARYLAND ROUTE 108 (SOUTHEAST SIDE) STA. 6+62.84 TO STA. 11+34.40

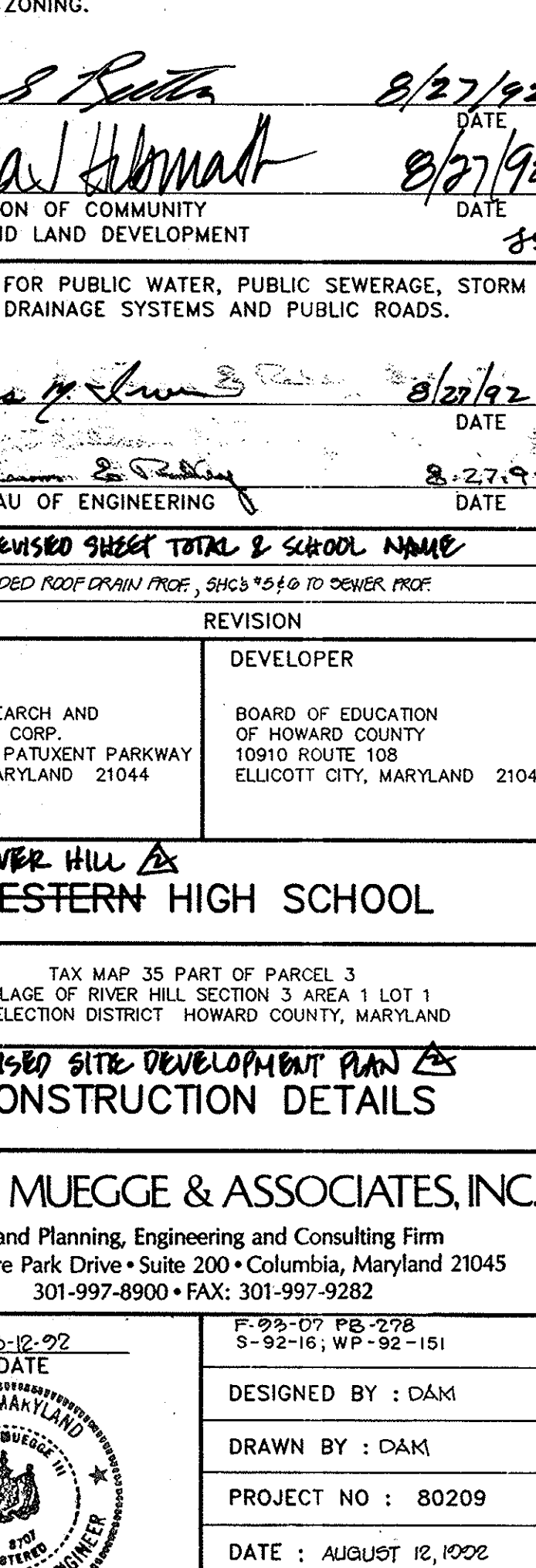
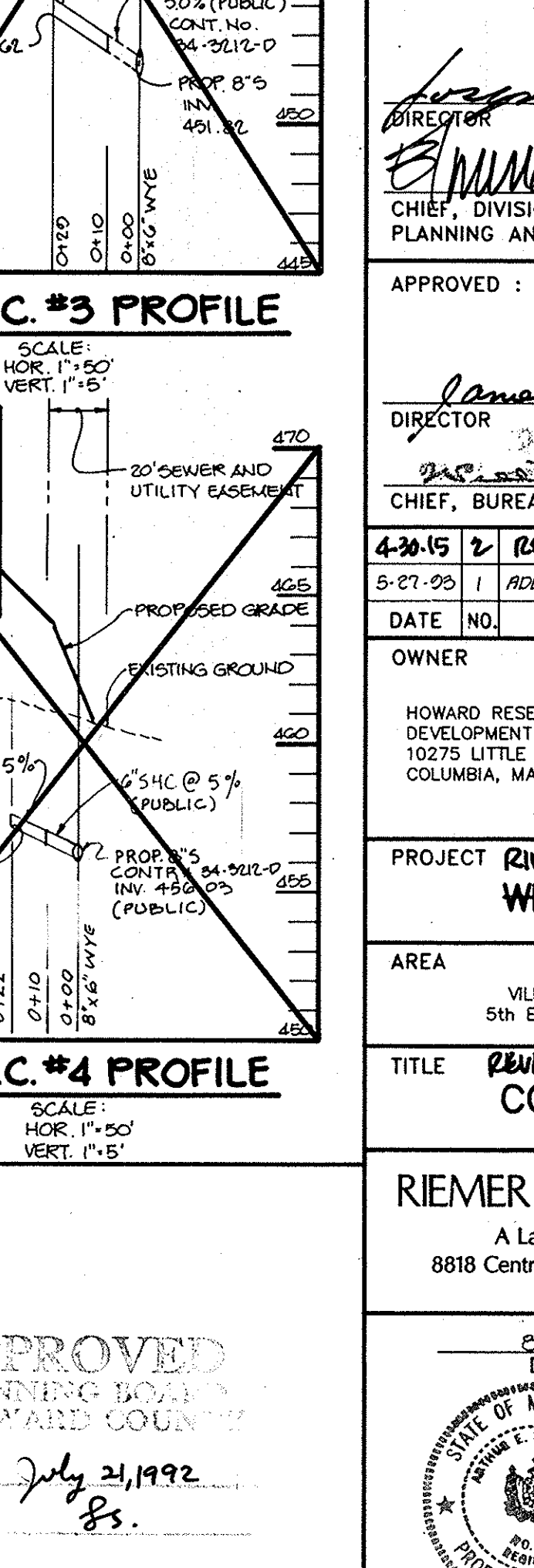
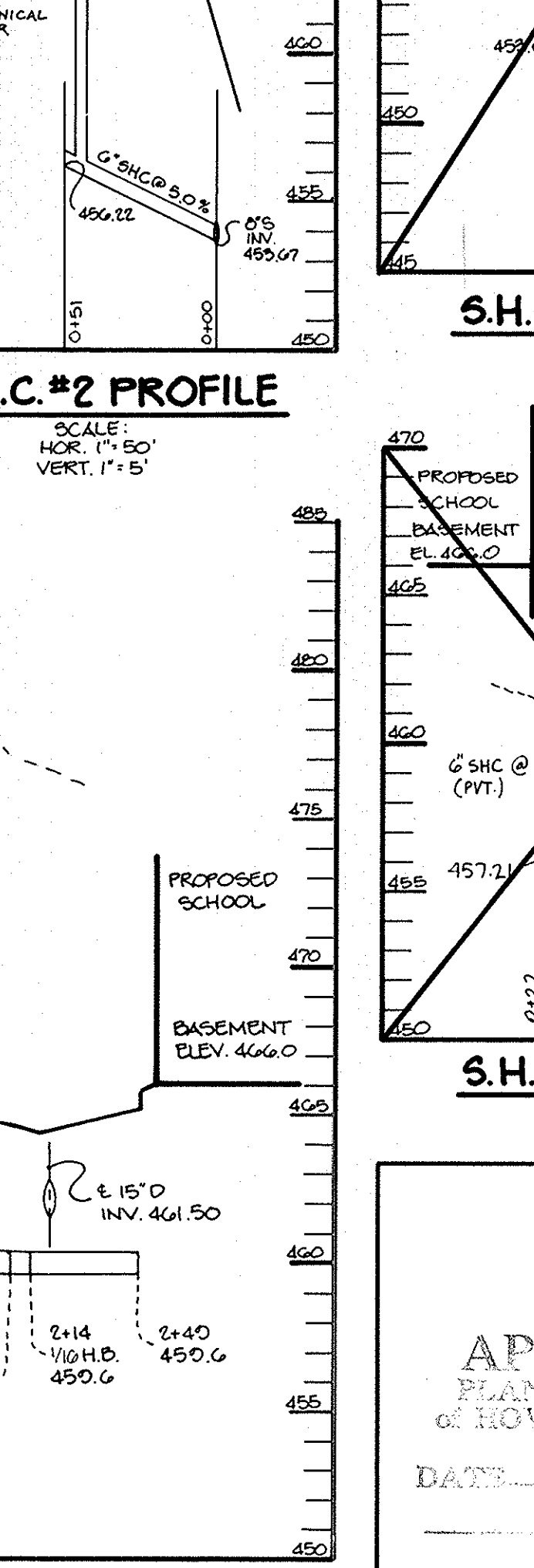
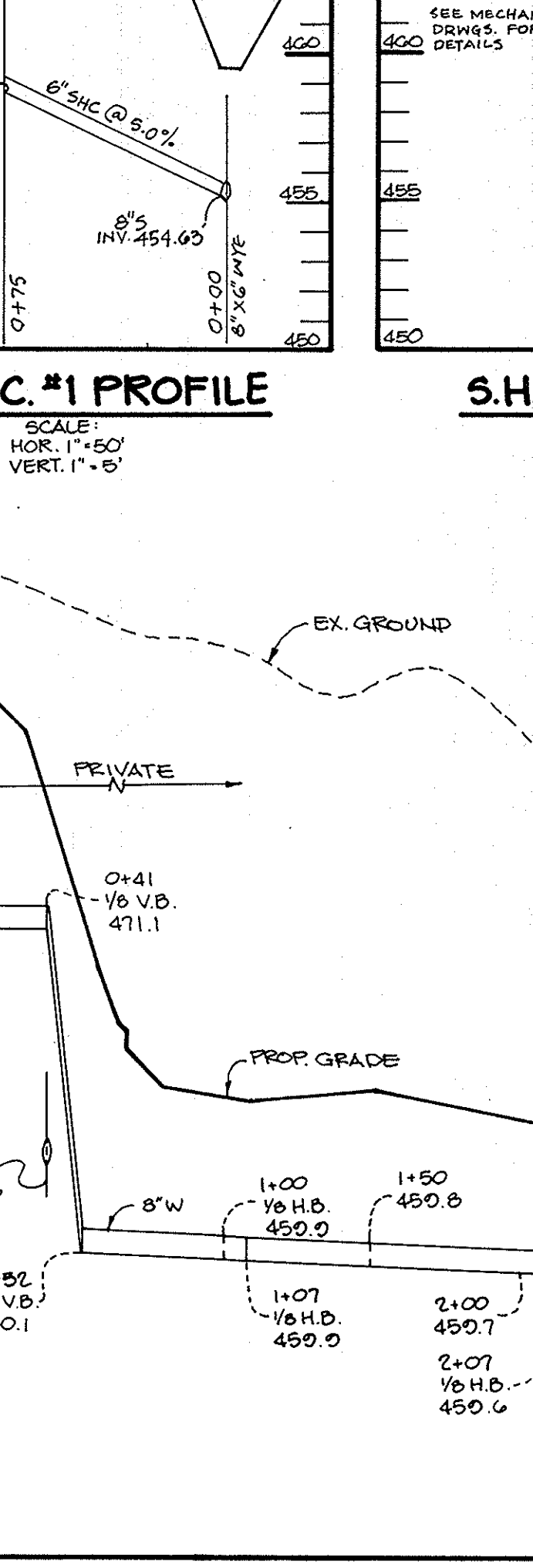
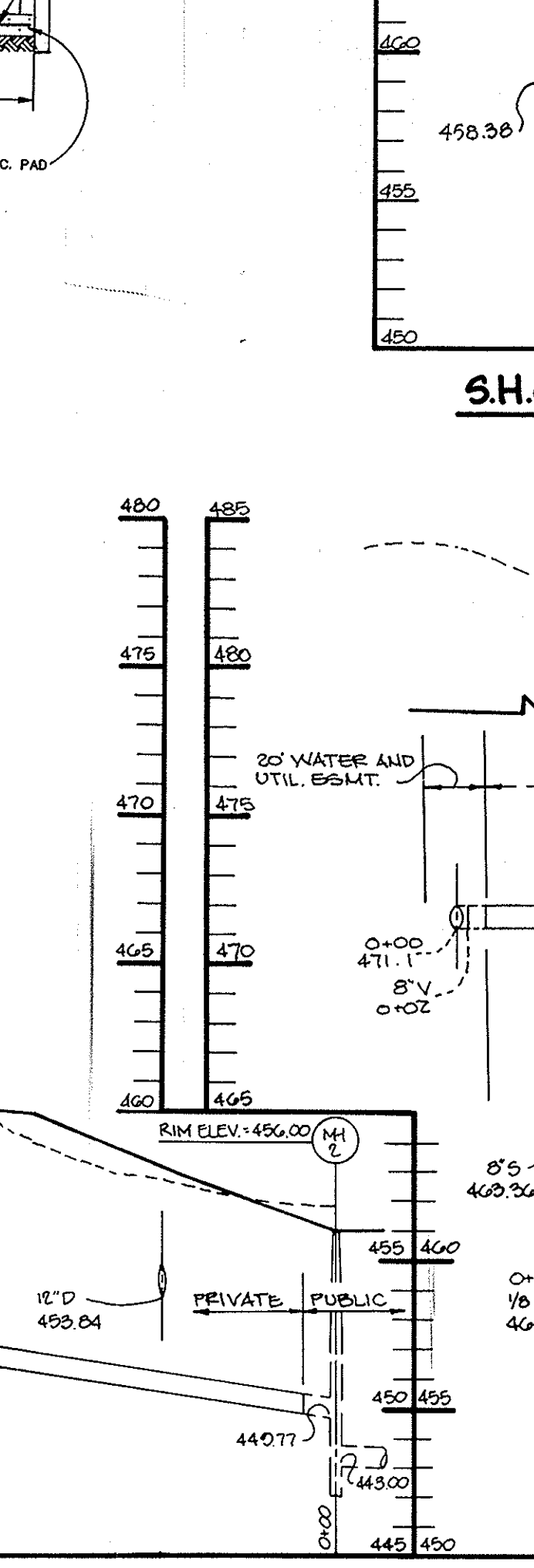
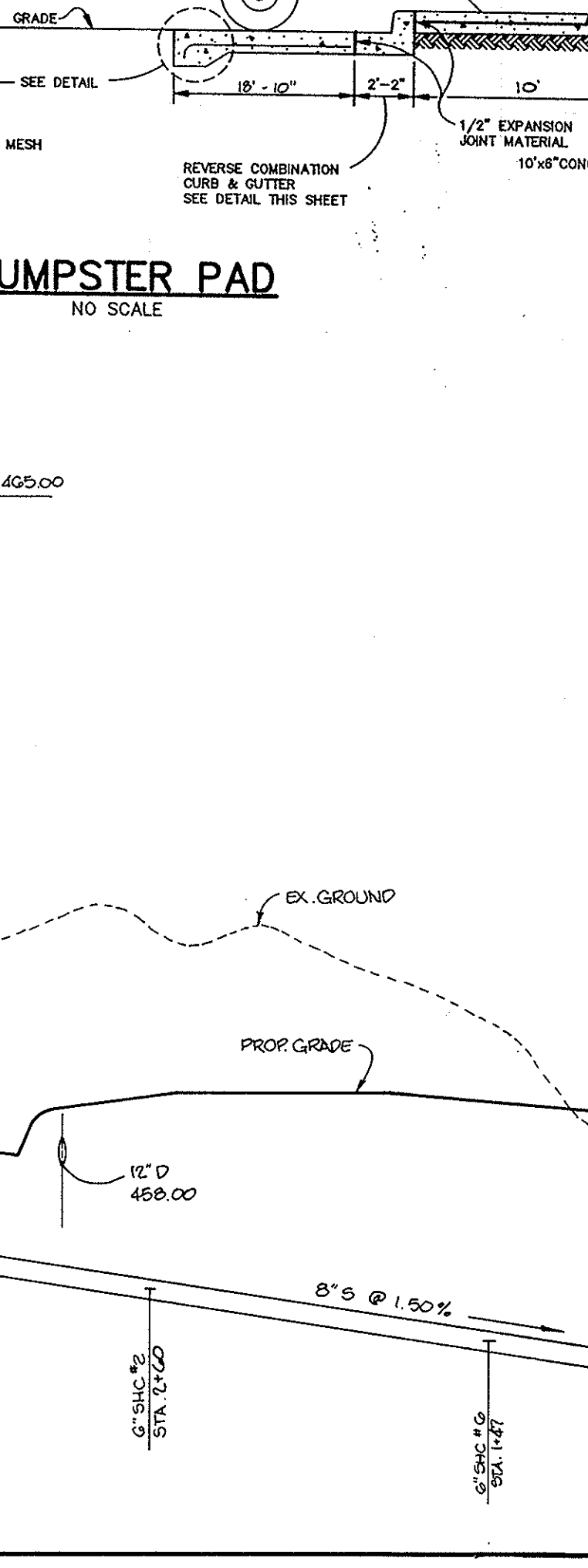
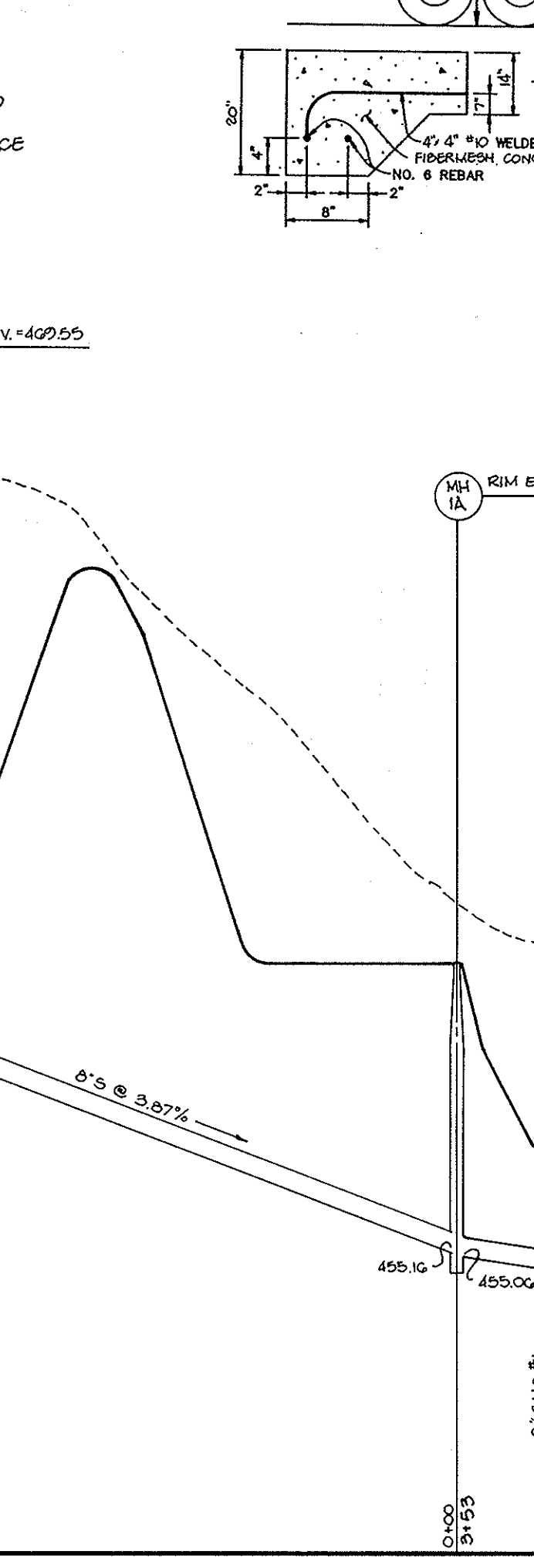
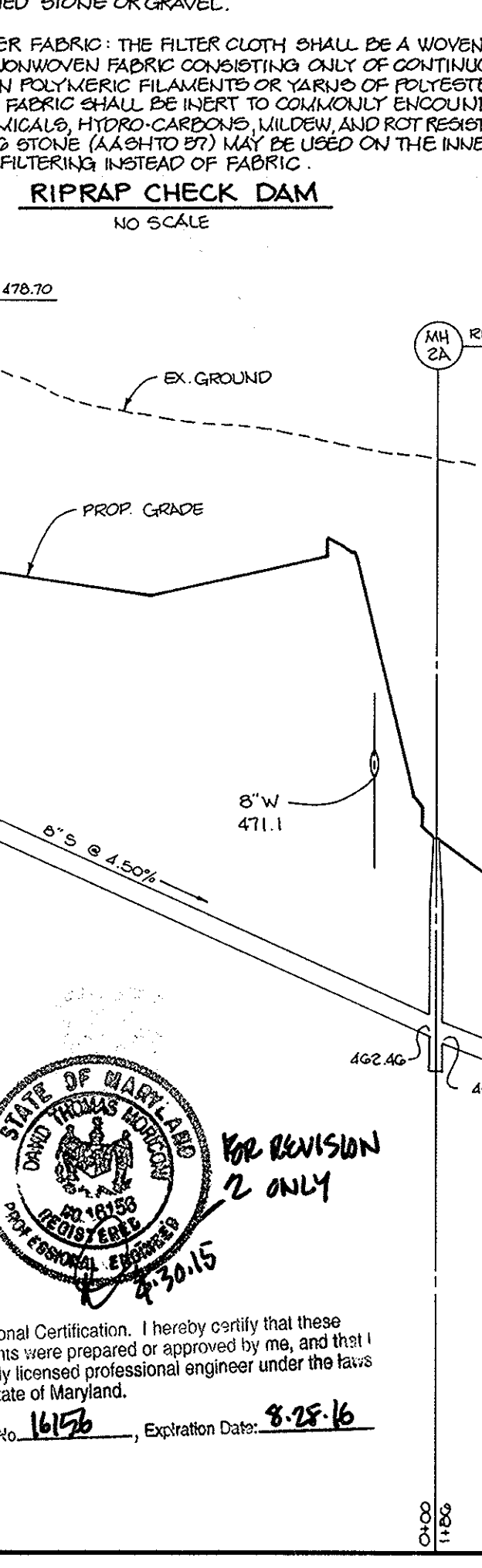
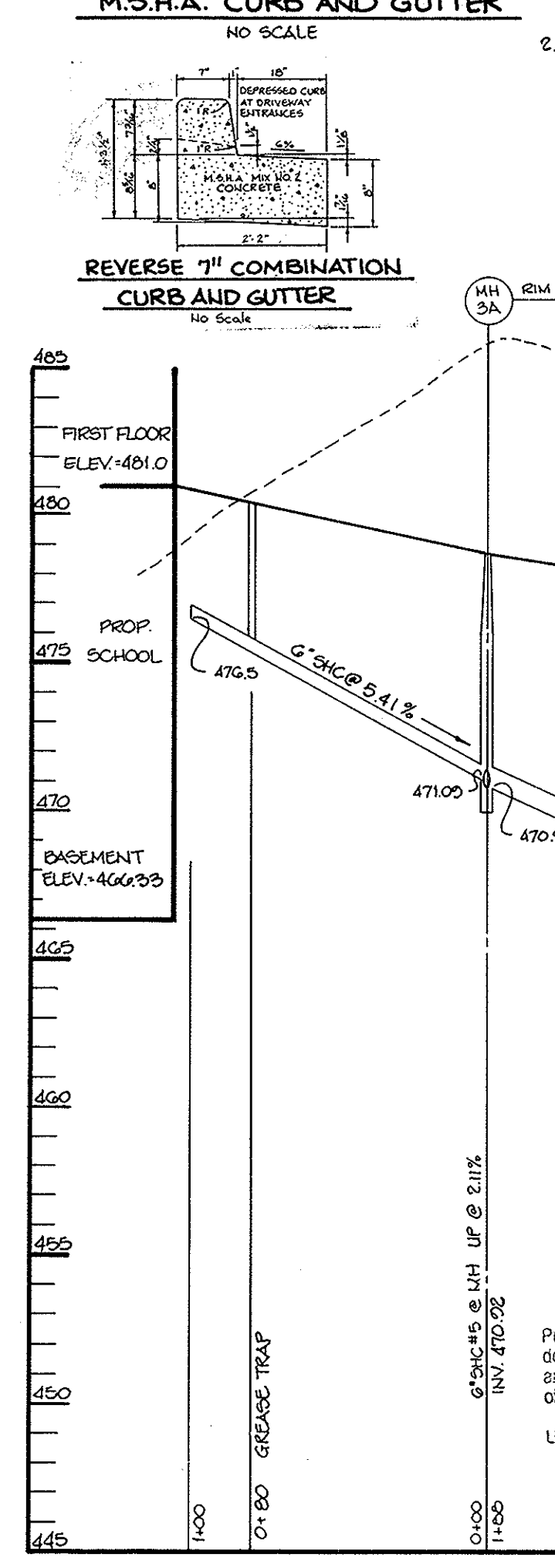
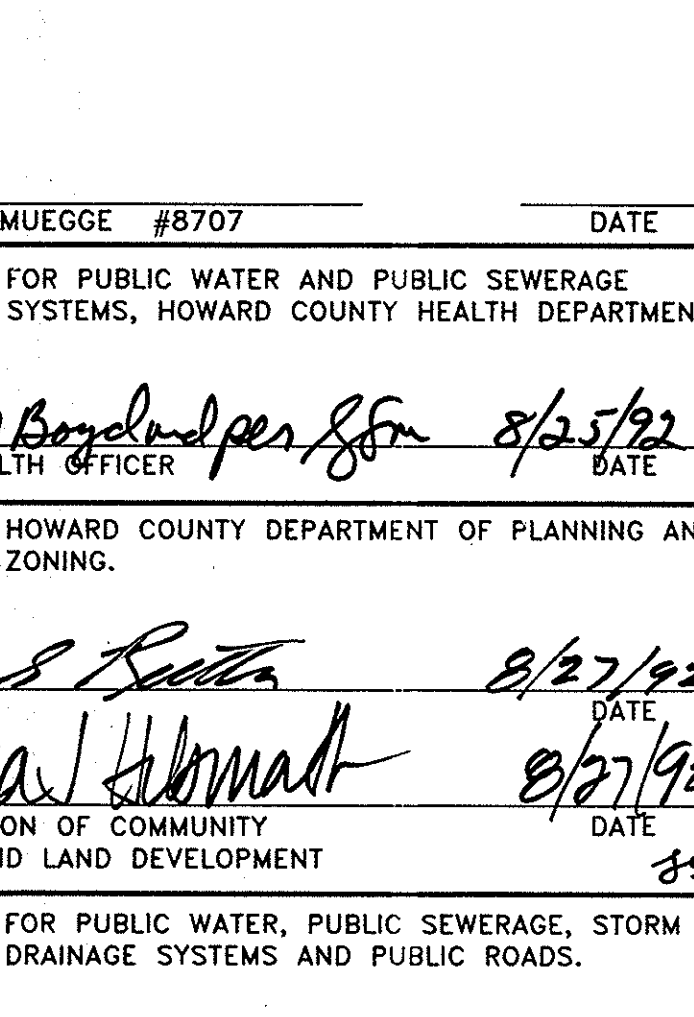
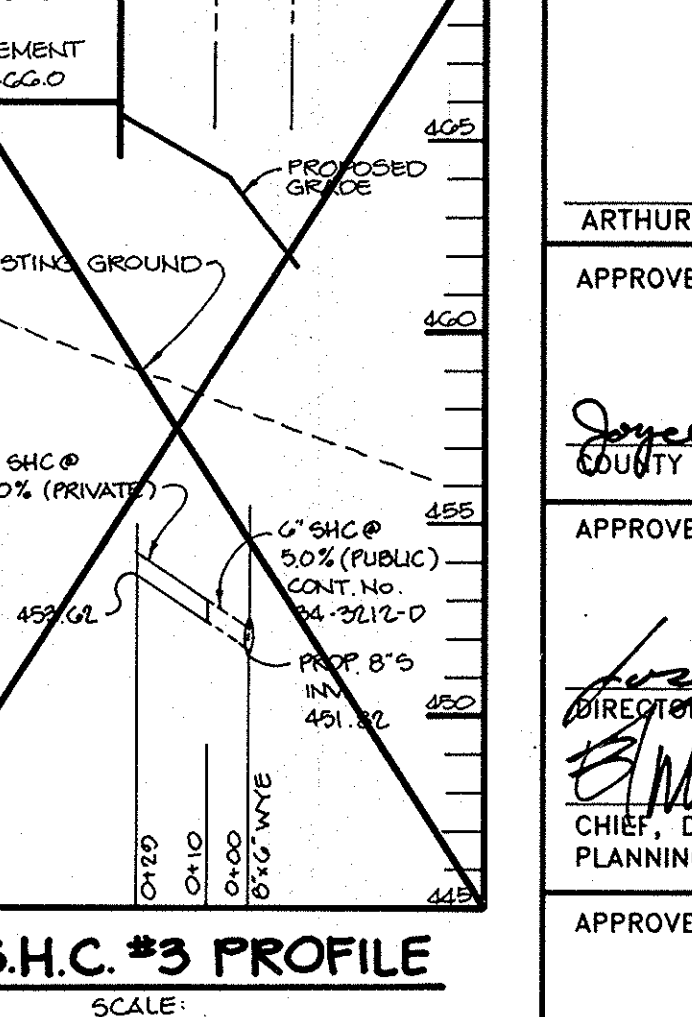
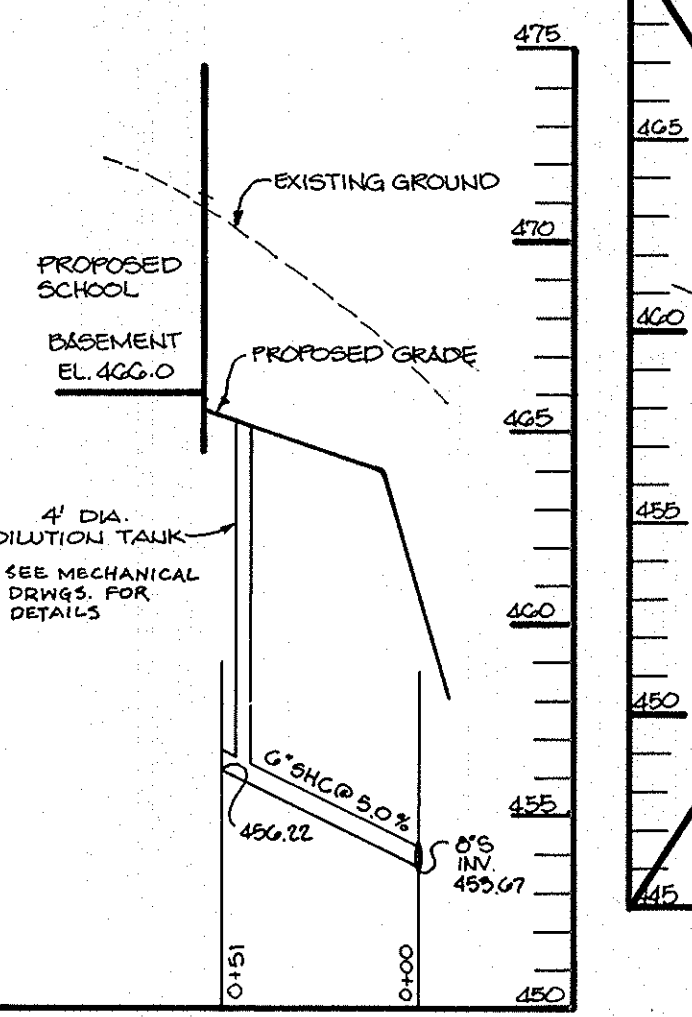
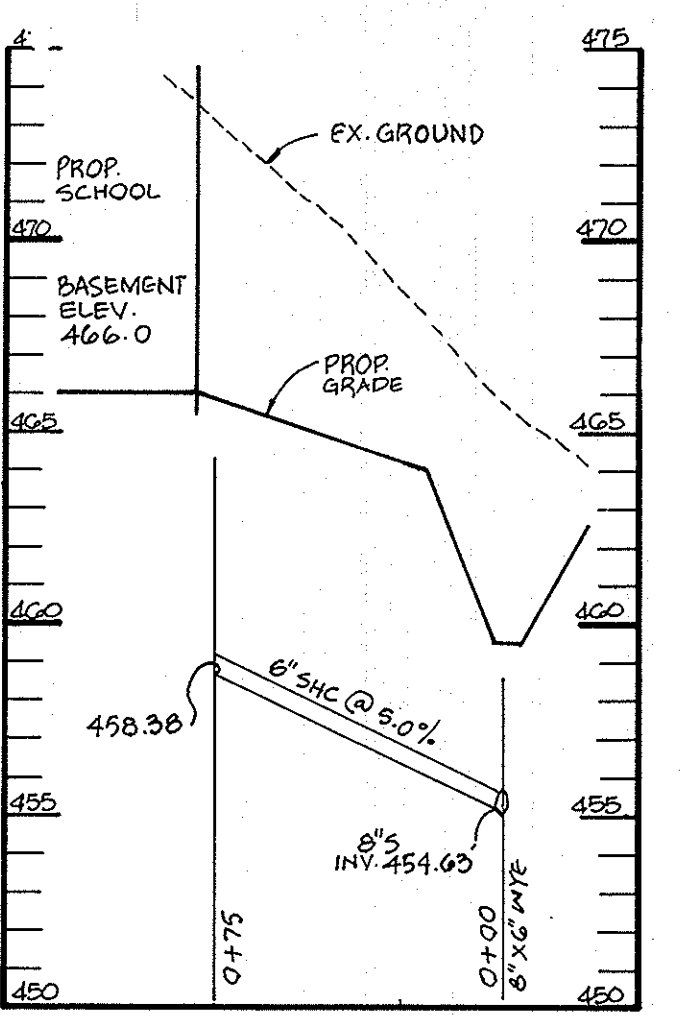
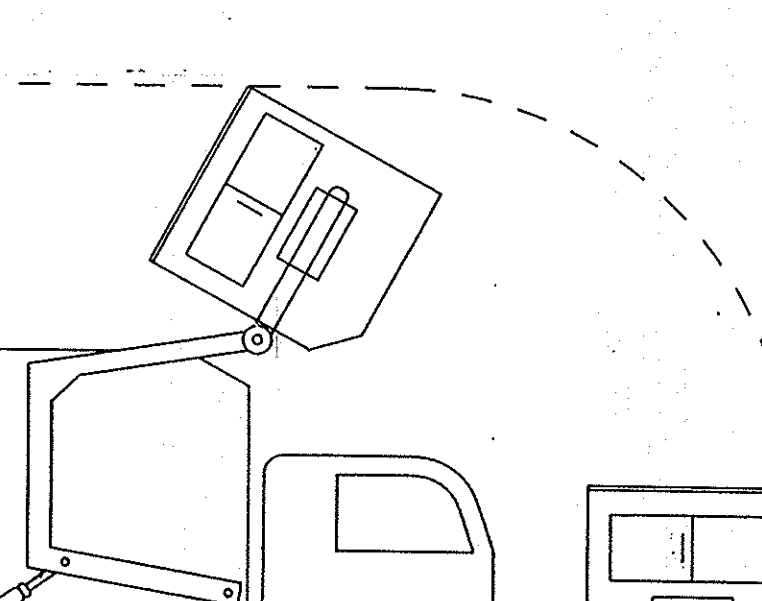
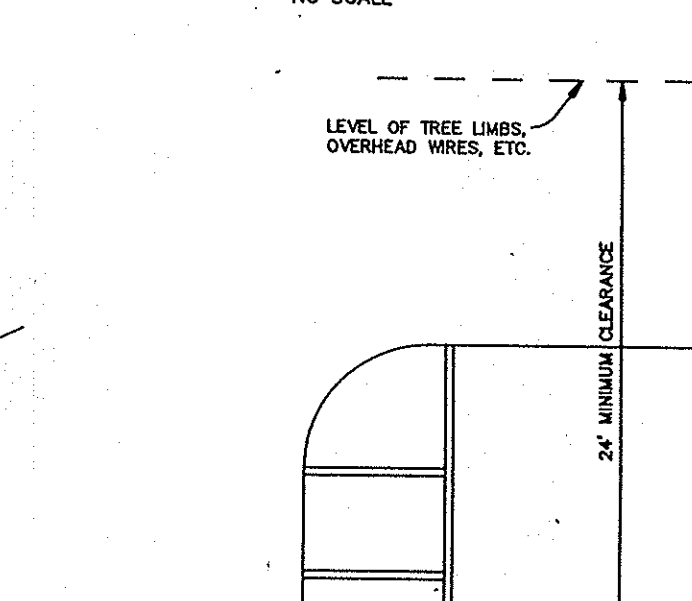
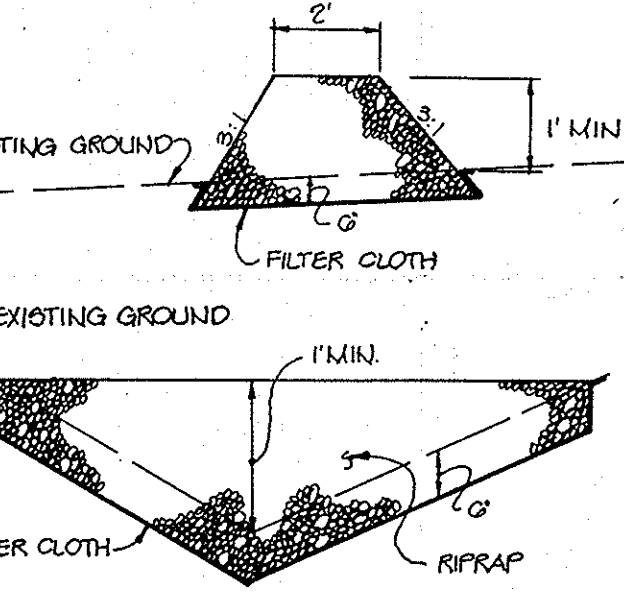
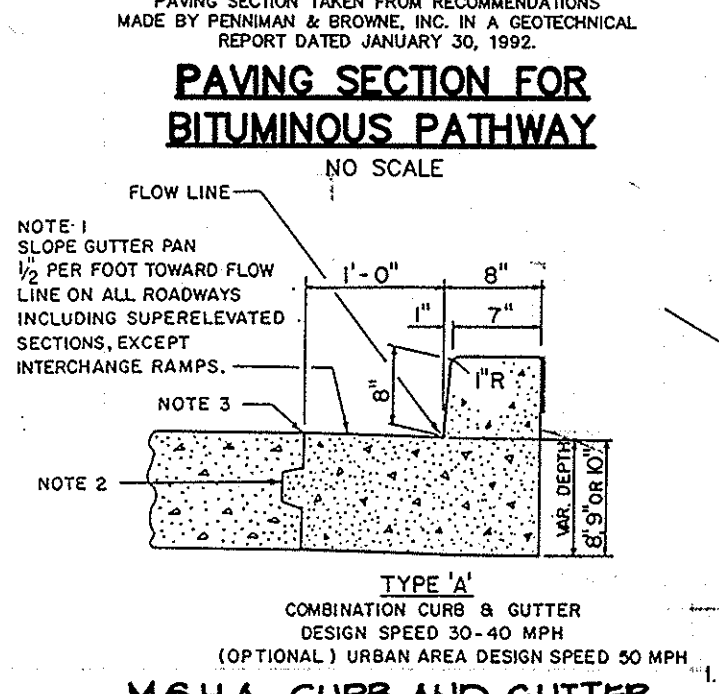
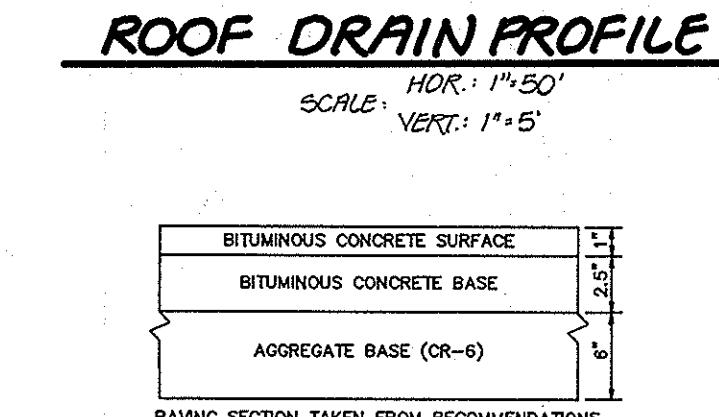
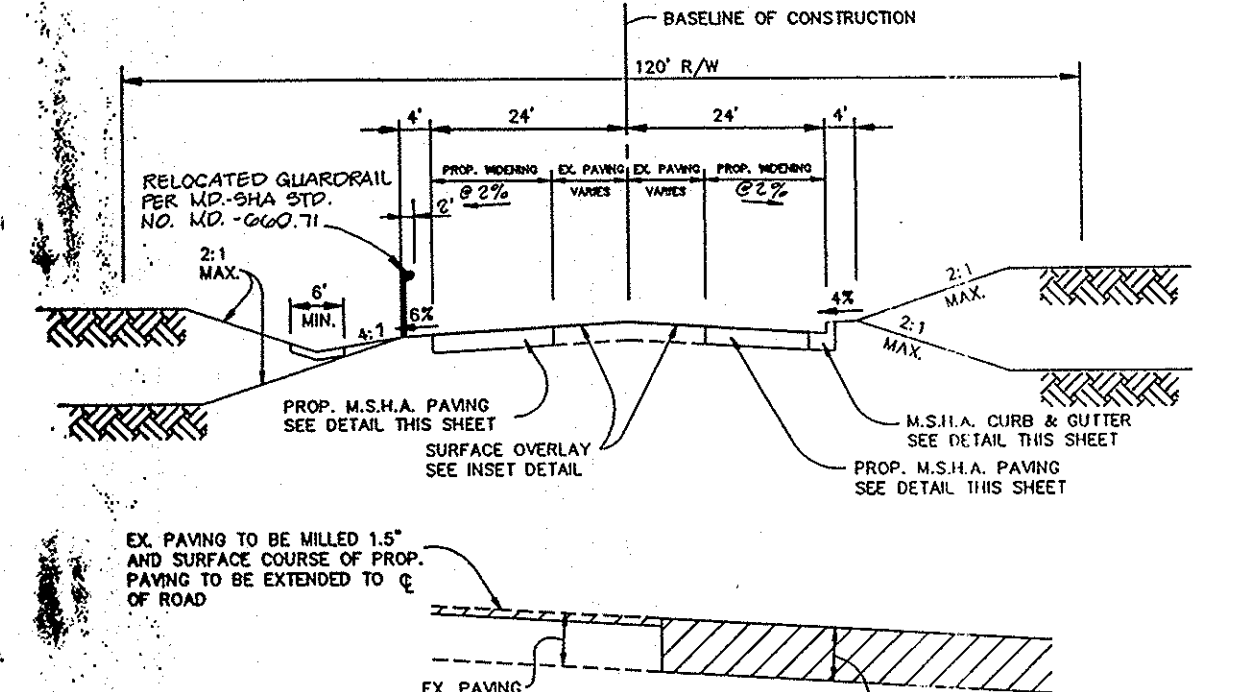
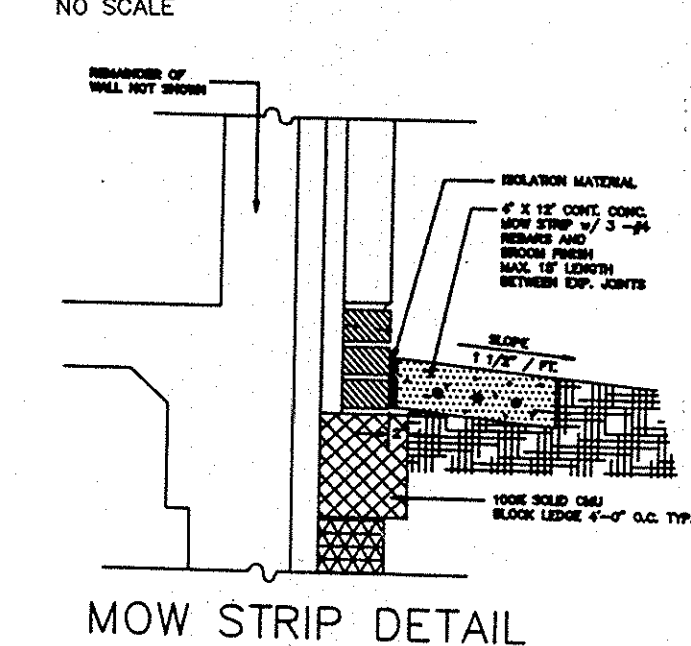
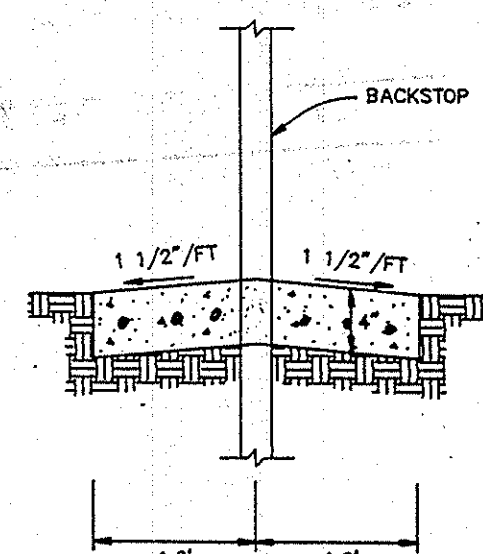
RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

DATE: 8-12-92
DESIGNED BY: JJB
DRAWN BY: WCW
PROJECT NO: 80209
DATE: AUGUST 12, 1992
SCALE: AS SHOWN
DRAWING NO. C9 OF 30

ARTHUR E. MUEGGE #8707



SOIL BORING LOGS
NO SCALE



AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boydland per JGM 8/25/92 DATE
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
James M. Boydland 8/27/92 DATE
DIRECTOR

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
James M. Boydland 8/27/92 DATE
DIRECTOR

CHIEF, BUREAU OF ENGINEERING
James M. Boydland 8-27-92 DATE

4-20-15 2 REVISED SHEET TOTAL 8 SCHOOL NAME

5-21-95 1 ADDED ROOF DRAIN PROFILES, SHCS #3 & 4 TO SEWER PROFILES

DATE	NO.	REVISION

OWNER: HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

DEVELOPER: BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043

PROJECT: RIVER HILL WESTERN HIGH SCHOOL

AREA: TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: REVISED SITE DEVELOPMENT PLAN CONSTRUCTION DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045
301-997-8900 • FAX: 301-997-9282

DATE: 8-27-92

DESIGNED BY: DAM

DRAWN BY: DAM

PROJECT NO.: 80209

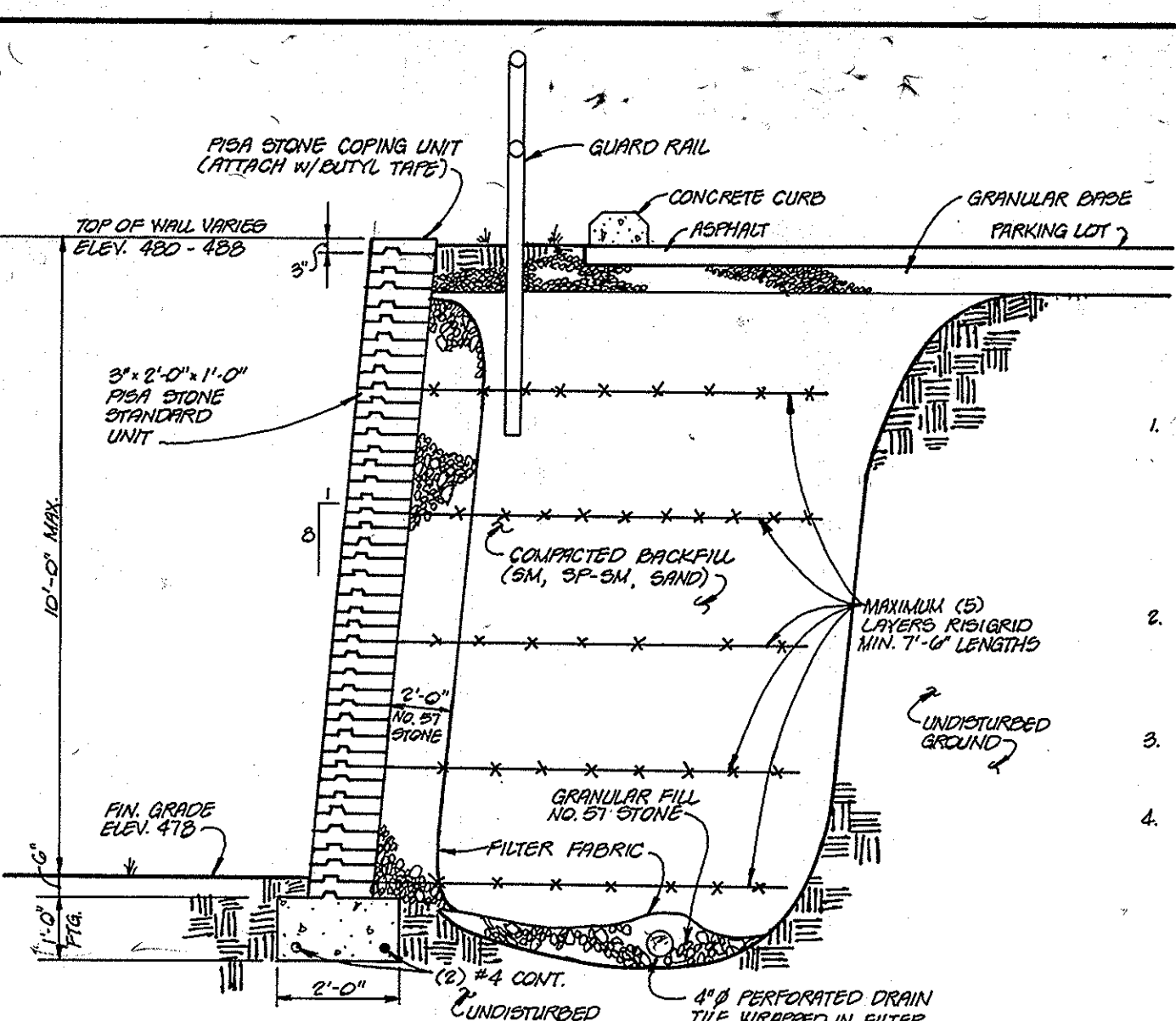
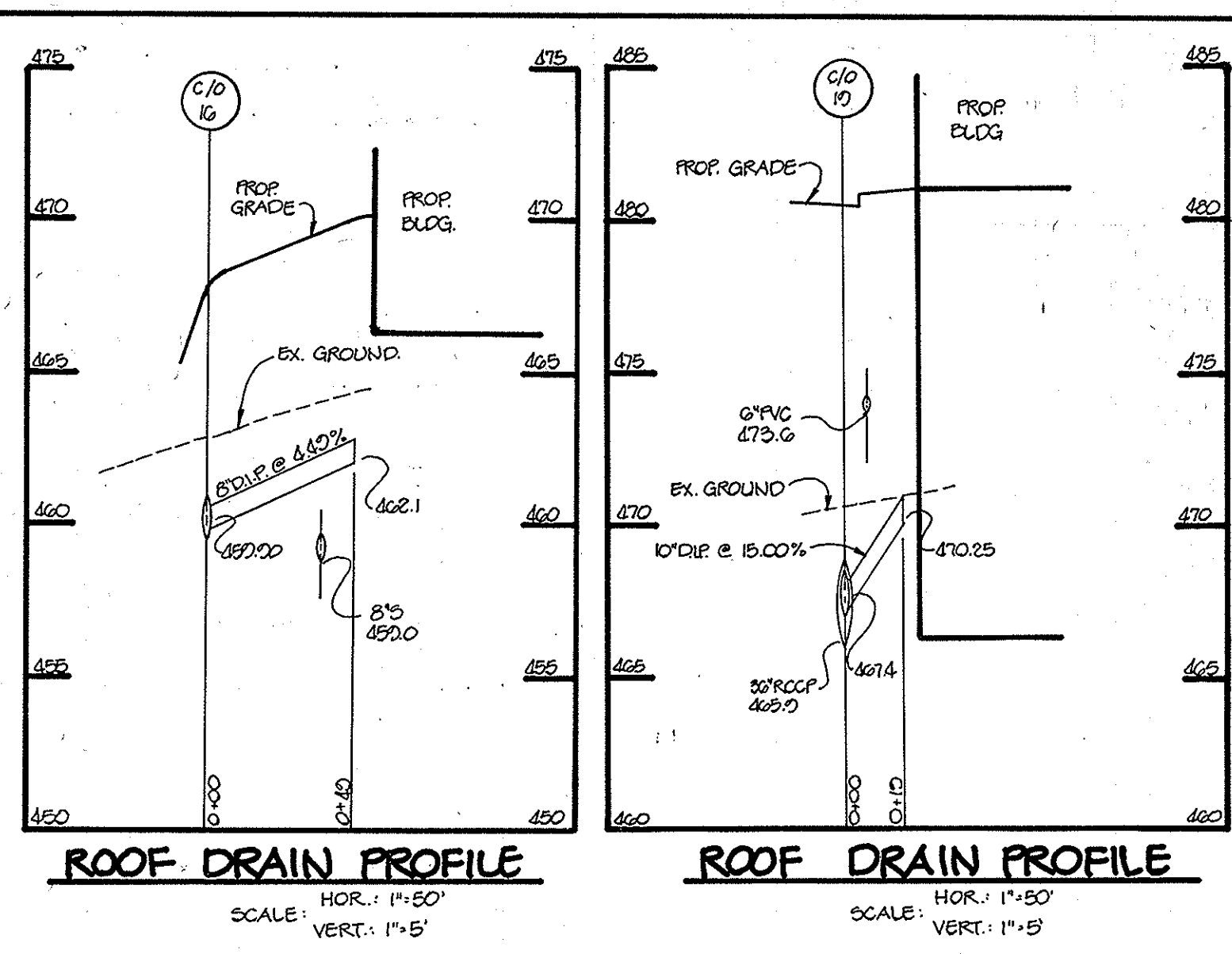
DATE: AUGUST 12, 1992

SCALE: AS SHOWN

DRAWING NO. C10 OF 30

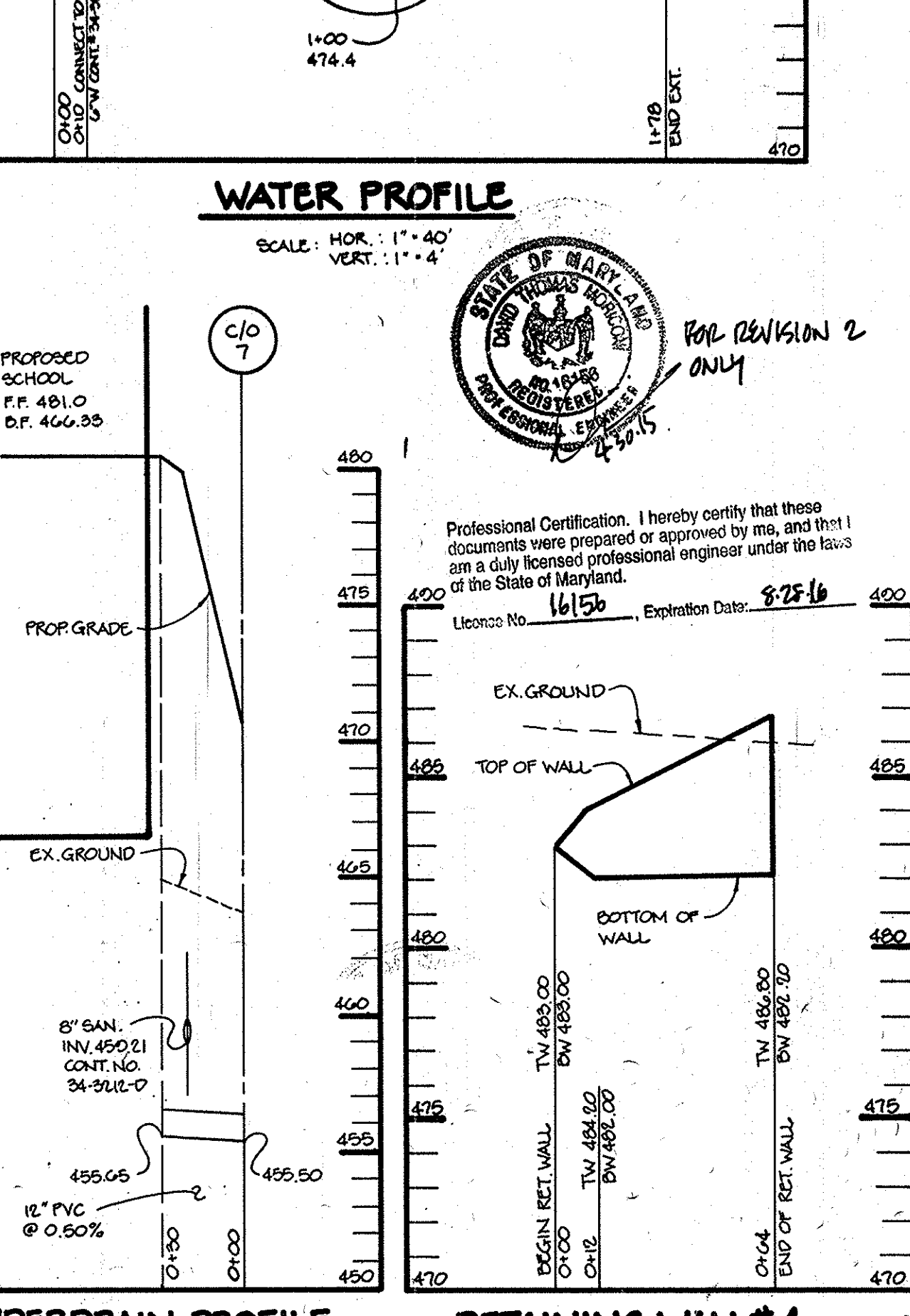
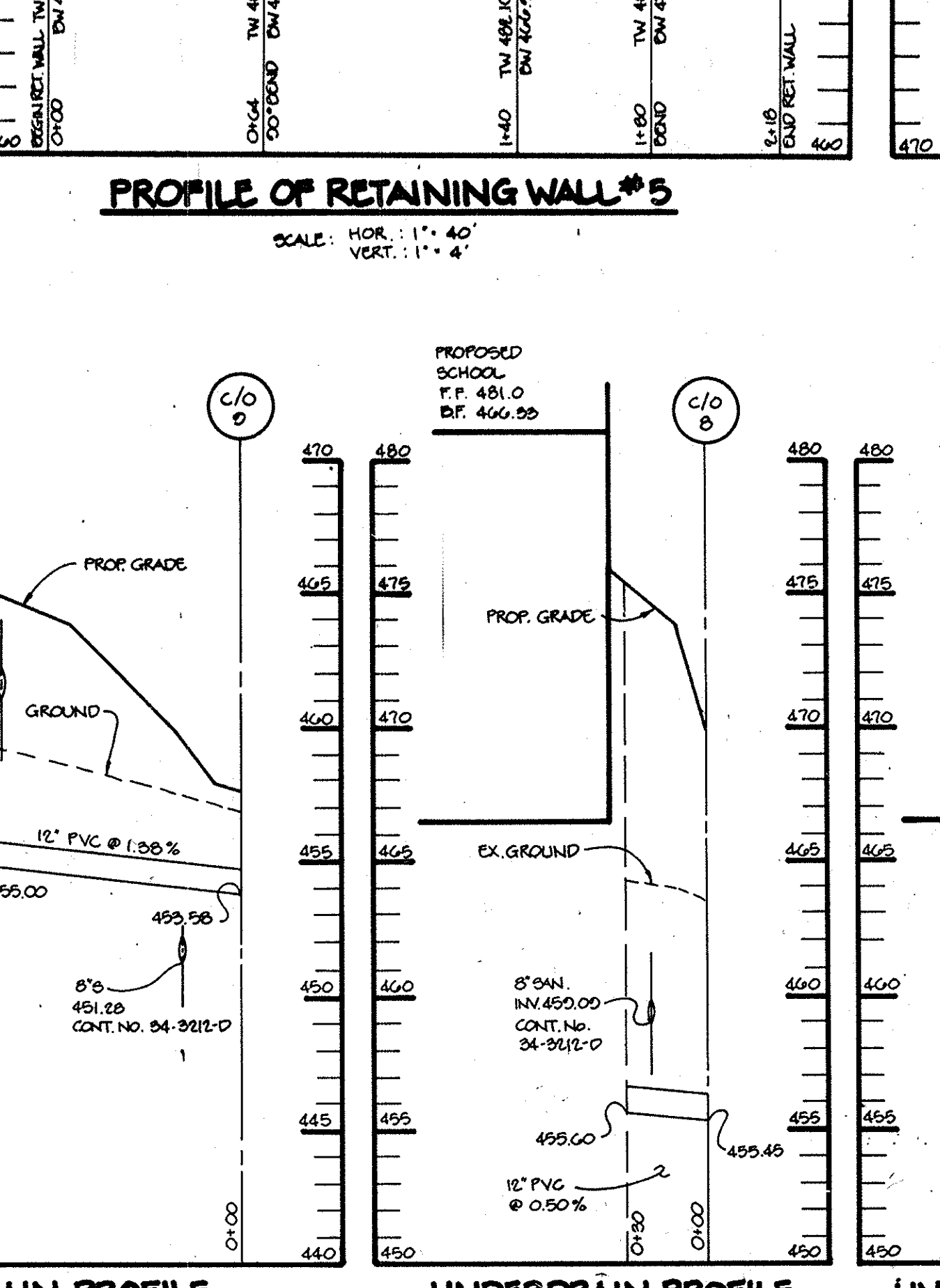
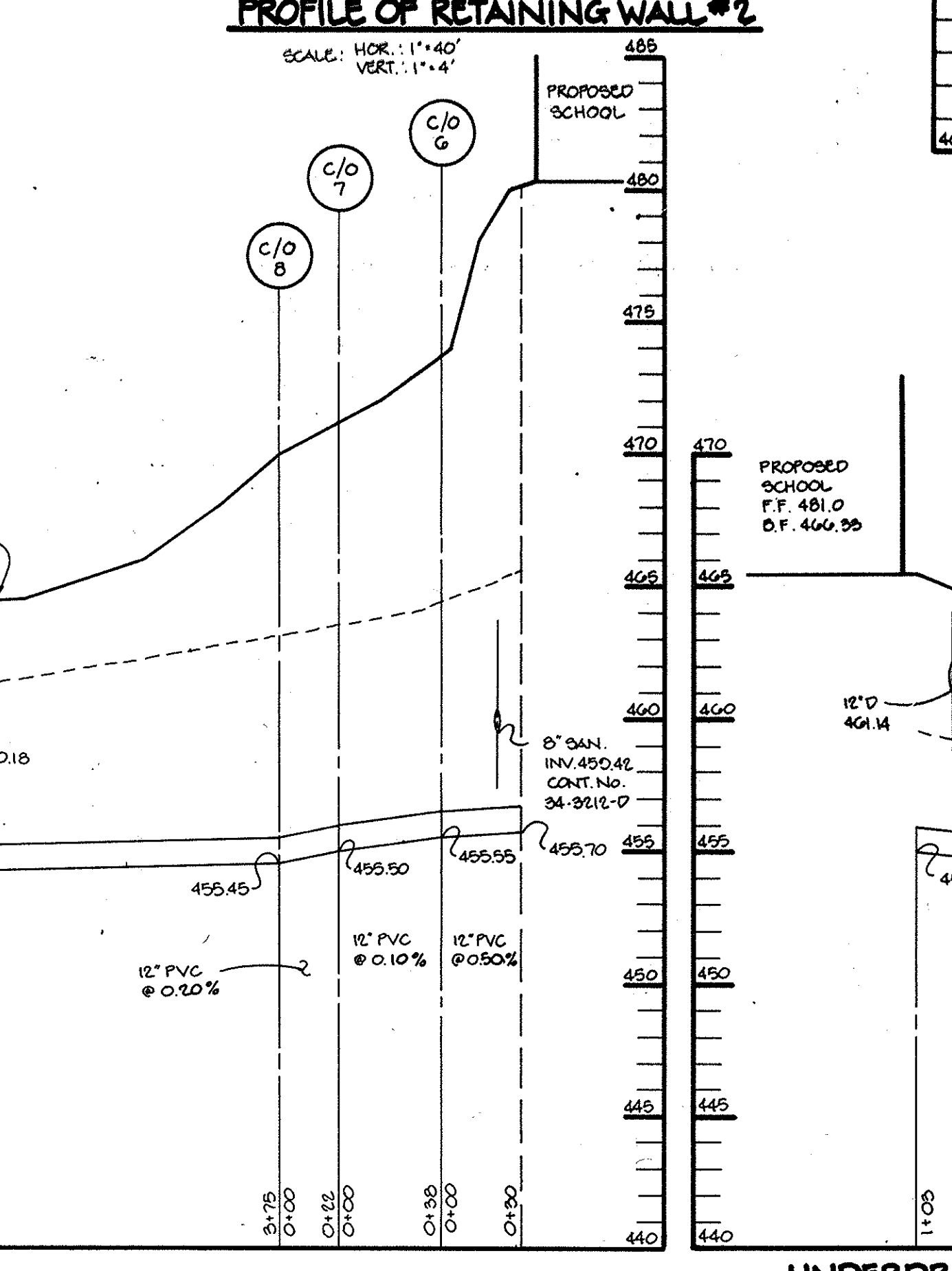
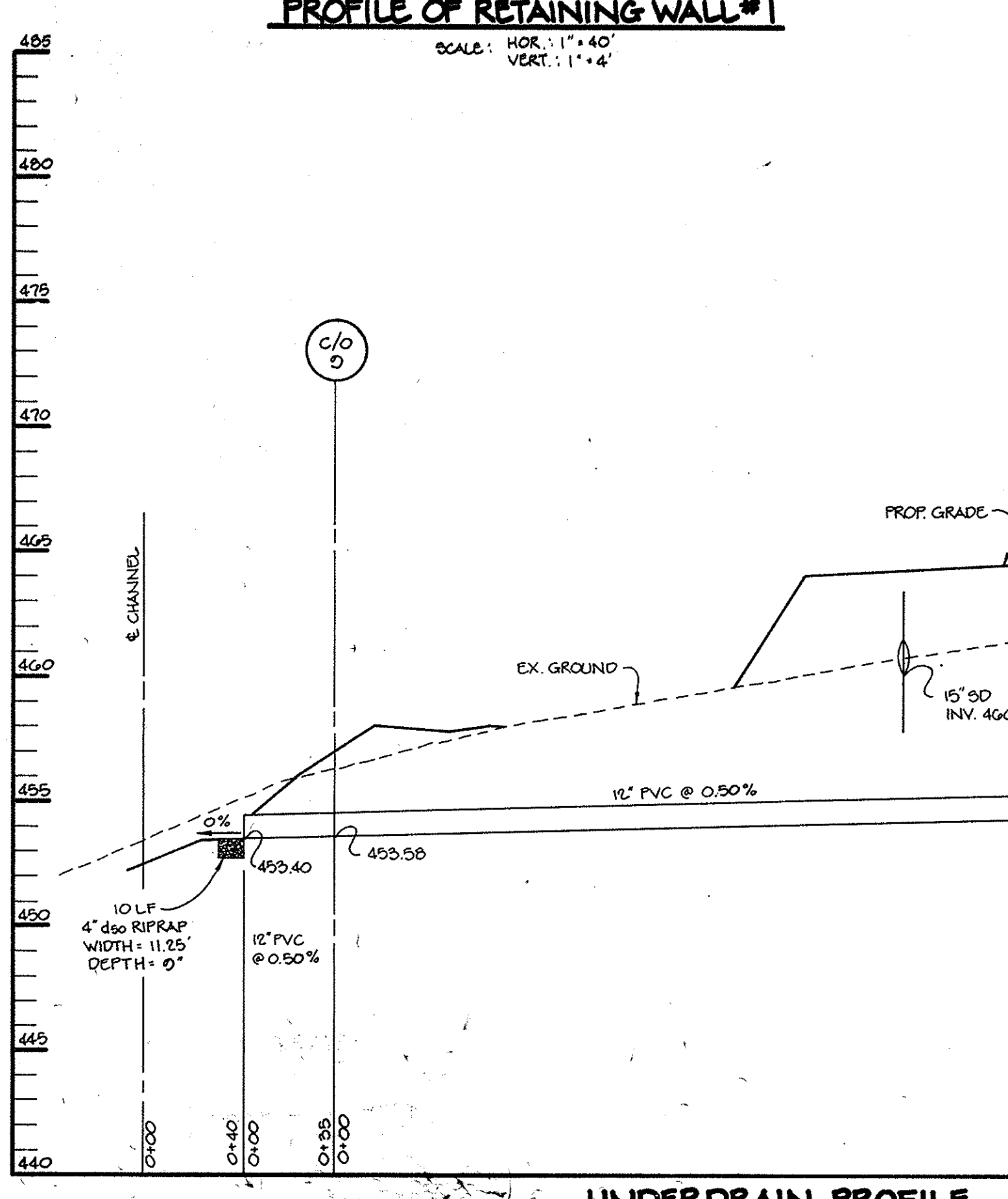
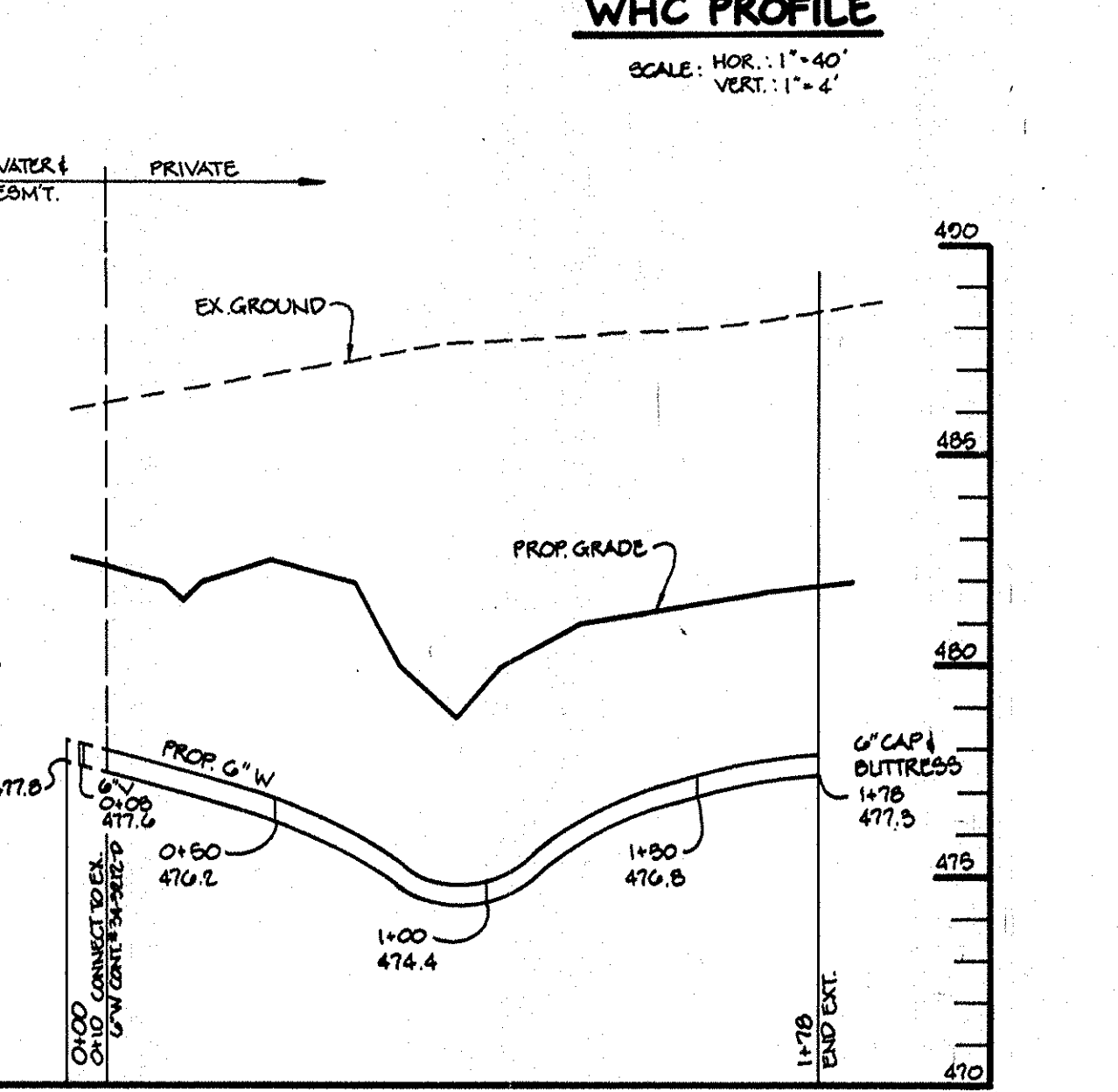
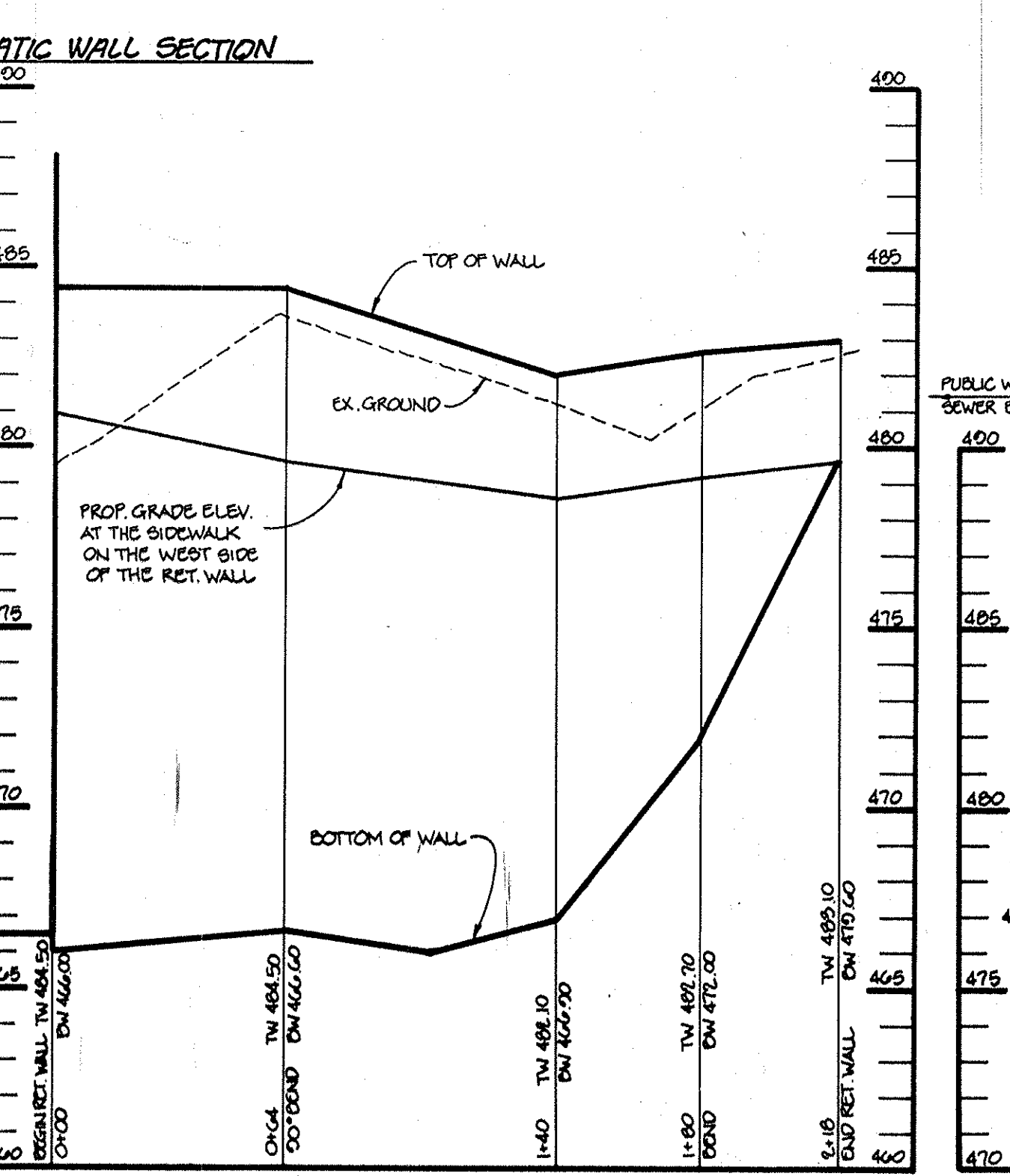
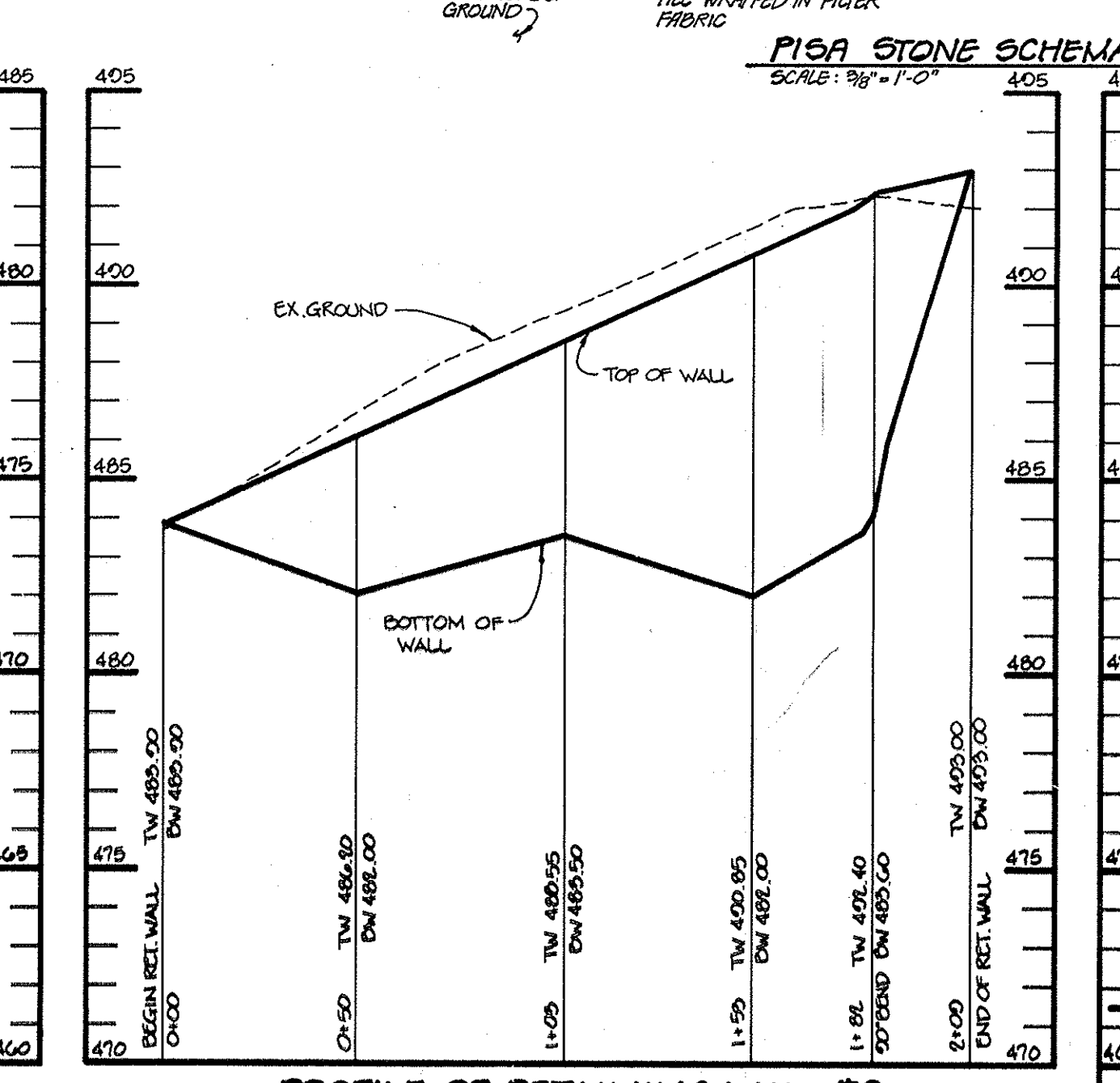
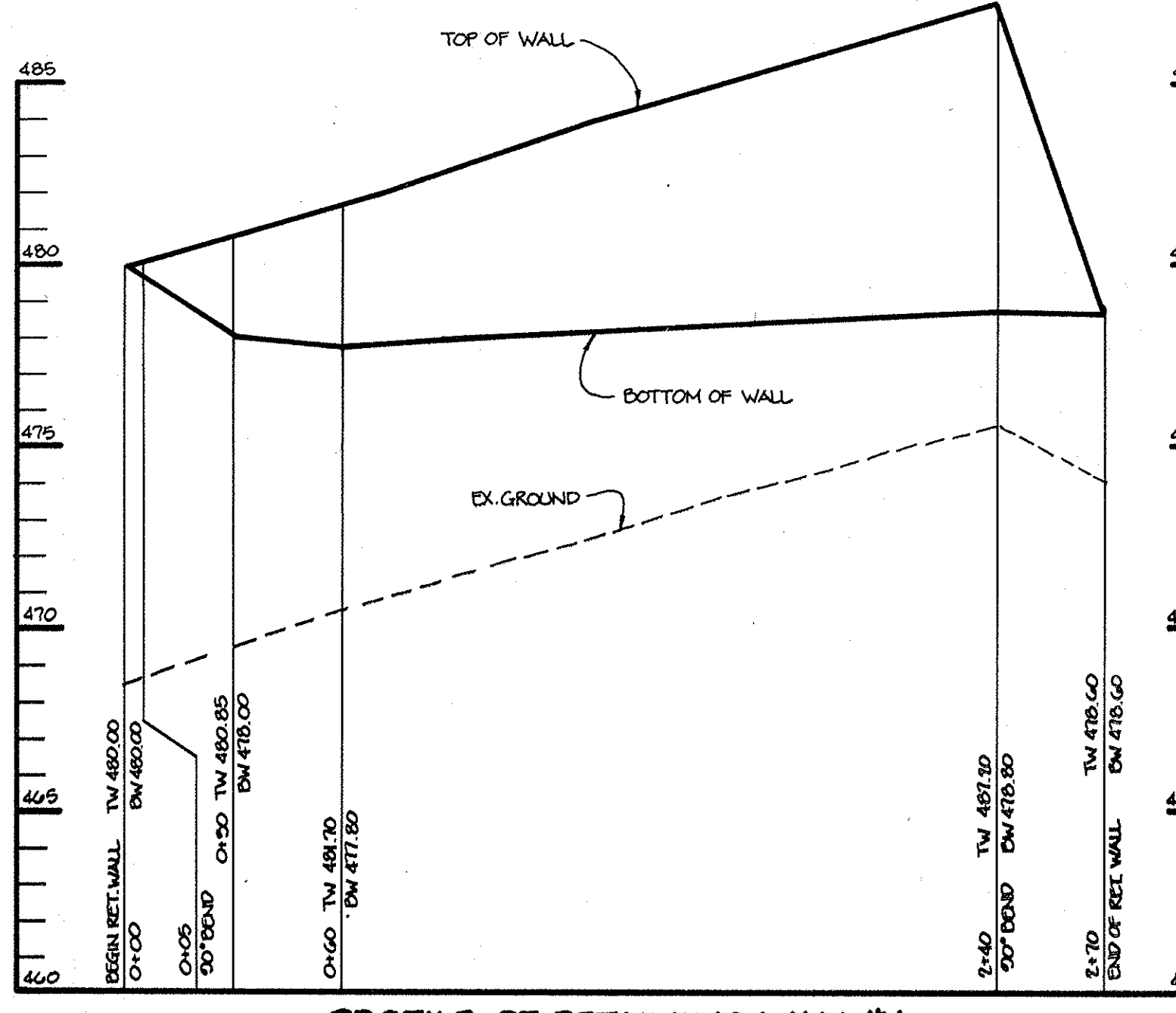
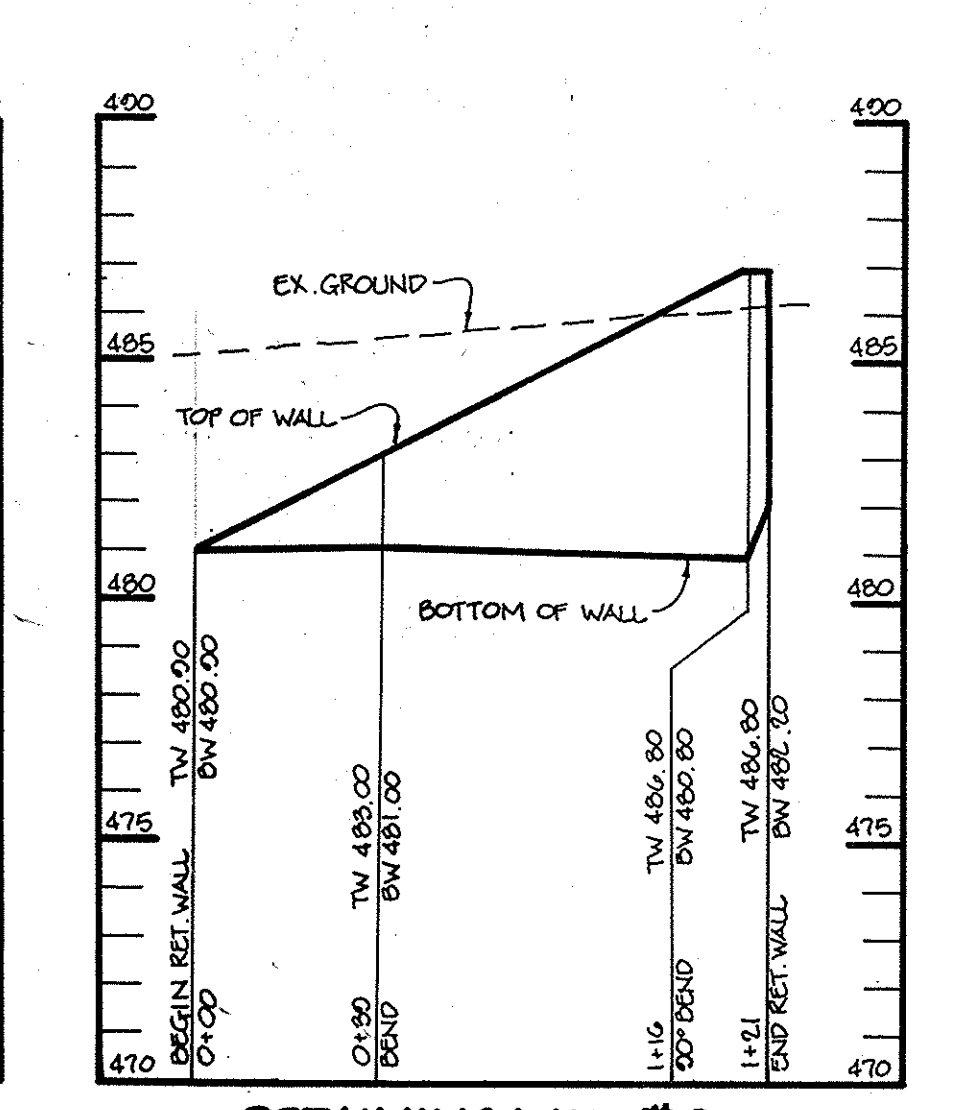
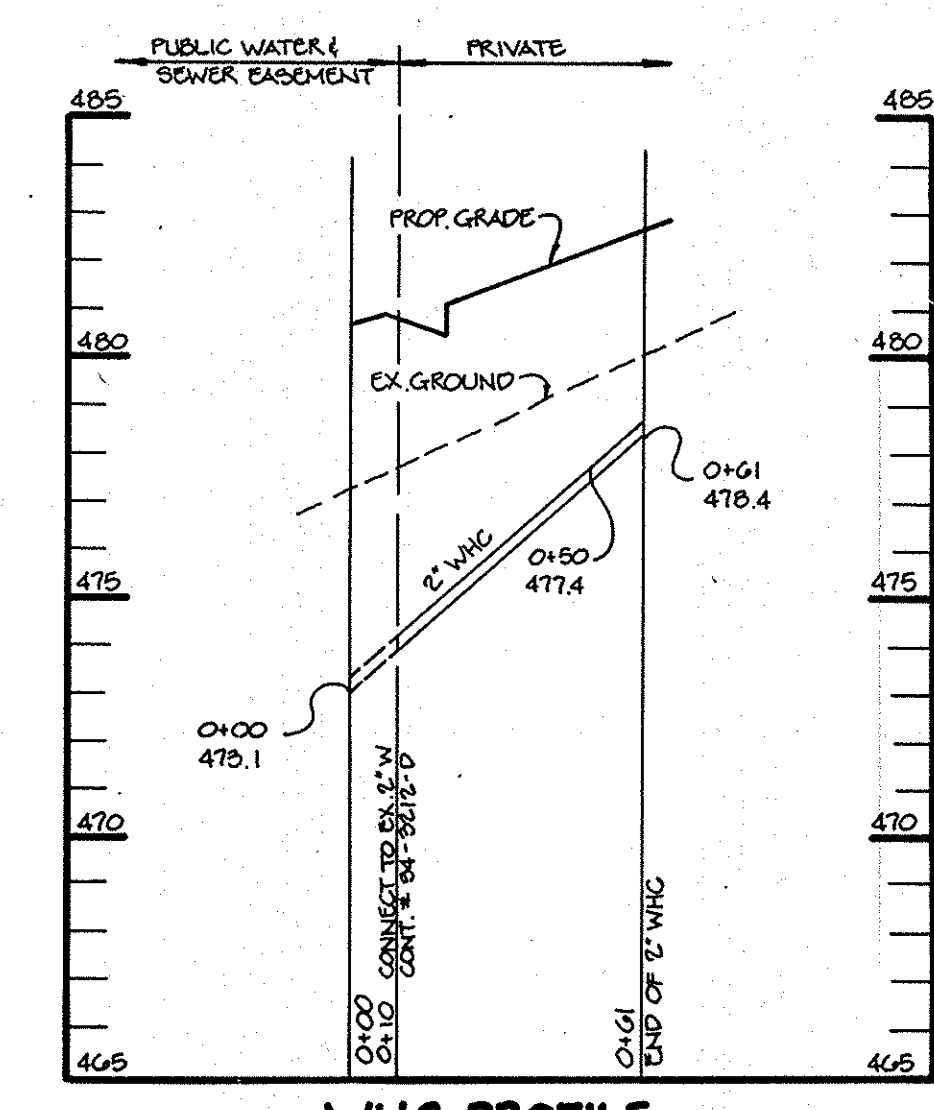
APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: July 21, 1992

STATE OF MARYLAND PROFESSIONAL ENGINEER
ARTHUR E. MUEGGE #8707



- RECOMMENDED INSTALLATION**
1. THE FRONT FACE PRECAST UNITS ARE TO BE FOUND ON A CONCRETE PAD 1'-0" DEEP x 24" WIDE WITH A MINIMUM STRENGTH OF 20 MPa (3000 psi). THE FOOTING IS TO HAVE A KEY TO MATCH THE NOTES IN THE FOUNDATION. THE PAD SHALL BE PLACED OVER FIRM UNDISTURBED ORIGINAL GROUND WITH A MINIMUM SOIL BEARING CAPACITY OF 3000 PSF. THE BOTTOM COURSE OF THE WALL UNITS MUST BE A MINIMUM OF 2" BEHIND FINISHED GRADE.
 2. BACKFILL MATERIAL MUST BE COMPACTED TO 98% STANDARD PROCTOR DENSITY IN MAXIMUM 15" LIFTS USING A VIBRATORY PLATE COMPACTOR. ALL BACKFILL SHALL BE FREE-DRAINING, NON-FROST SUSCEPTIBLE GRANULAR MATERIAL WITH NOT MORE THAN 5% PASSING #200 SIEVE.
 3. THE TOP COURSE OR COPING UNIT IS TO BE SECURED WITH TWO STRIPS OF BUTYL TAPE (3/8" x 2" BEAD SIZE) OF WHICH ONE IS PLACED ON EITHER SIDE OF THE GROOVE.
 4. ANY VARIATION FROM RECOMMENDED INSTALLATION REQUIRED REVIEW BY A PROFESSIONAL ENGINEER. SOIL CONDITIONS REQUIRE REVIEW BY A GEOTECHNICAL ENGINEER, PRIOR TO CONSTRUCTION.

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE: July 21, 1992
85



AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Banded per JSM 8/25/92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Jessie A. Smith 8/27/92
DIRECTOR DATE

Emma K. Hildom 8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James R. Linn 8/27/92
DIRECTOR DATE

Thomas R. Linn 8-27-92
CHIEF, BUREAU OF ENGINEERING DATE

4-20-15 2 REVISED SHEET TOTAL TO SCHOOL NAME
5-27-92 1 ADDED ROOF DRAIN PROFILES

DATE	NO.	REVISION
5-27-92	1	ADDED ROOF DRAIN PROFILES

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043

PROJECT: RIVER HILL WESTERN HIGH SCHOOL

AREA: TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

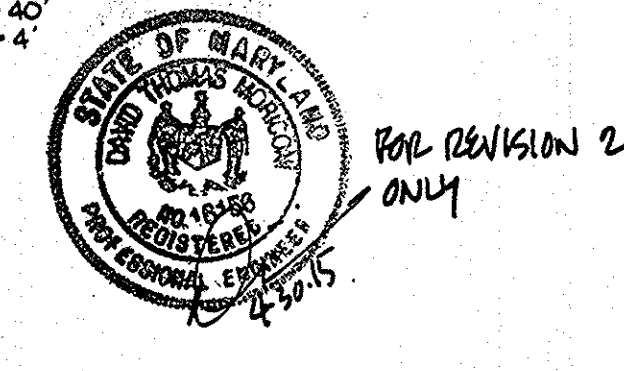
TITLE: REVISED SITE DEVELOPMENT PLAN PROFILES & DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045
301-997-8900 • FAX: 301-997-9282

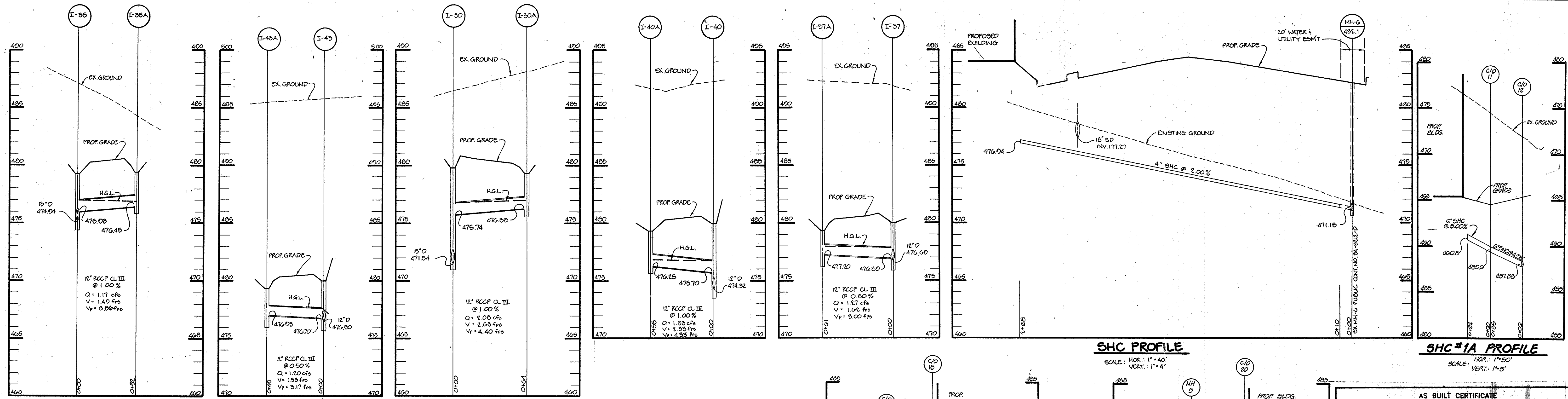
8-12-92 DATE
F-92-07 8-92-16
FD-278 WF-92-151

DESIGNED BY: FE
DRAWN BY: D.B.S.
PROJECT NO: 80208
DATE: AUGUST 12, 1992
SCALE: AS SHOWN
DRAWING NO. C10A OF 80

ARTHUR E. MUEGGE #8707

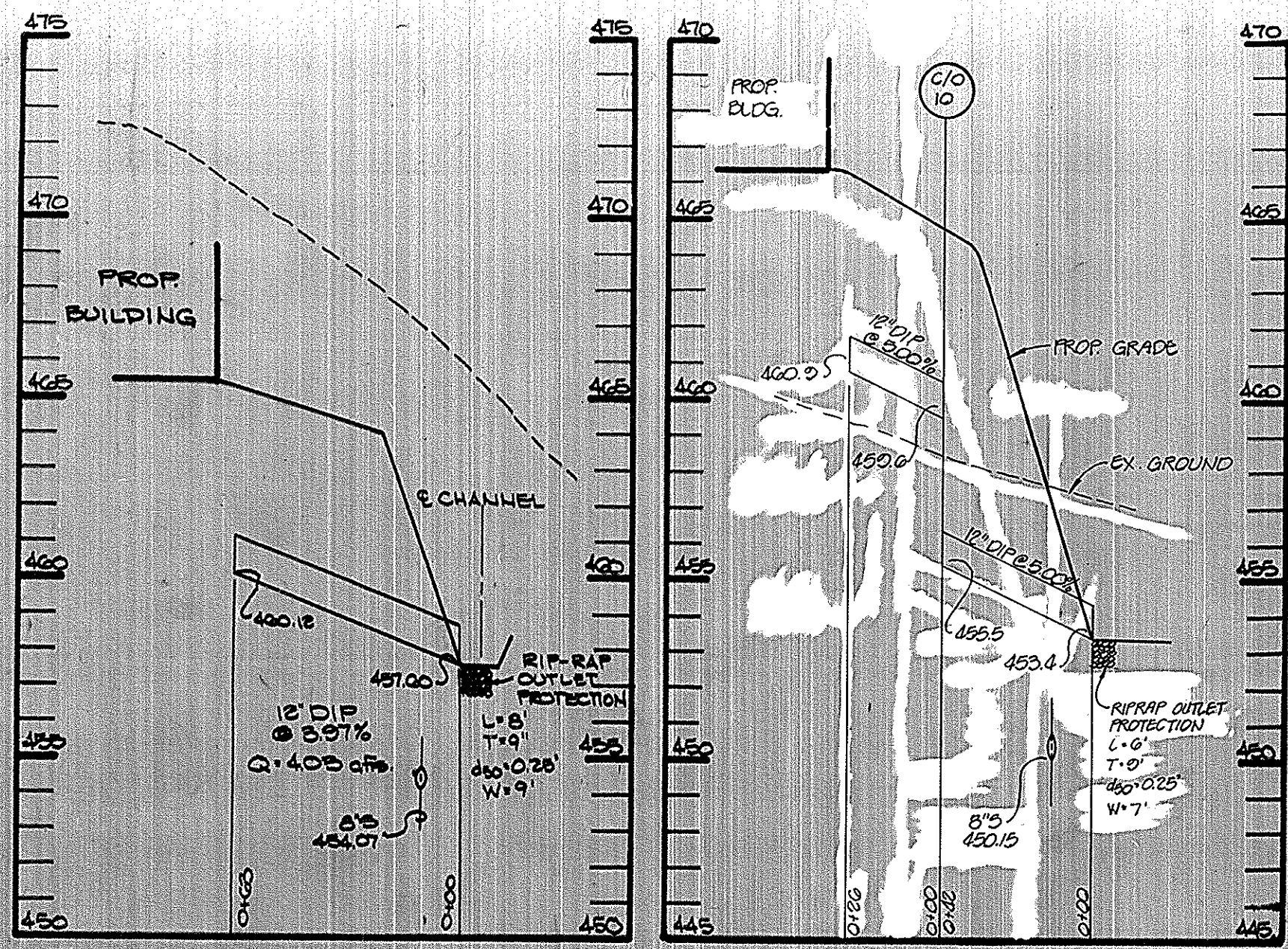


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16150 Expiration Date: 8-25-16



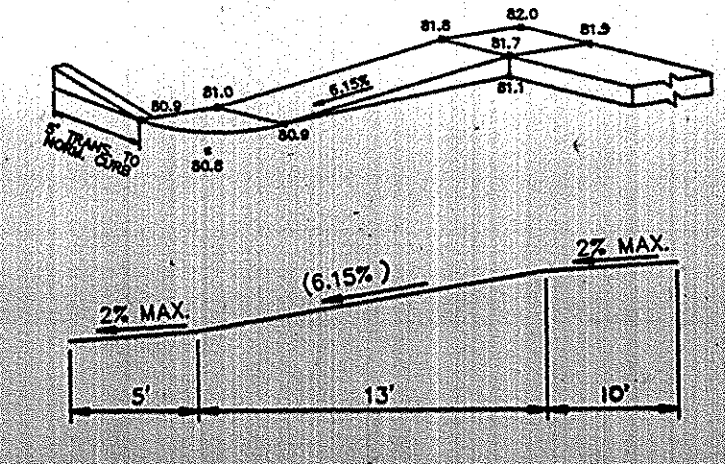
SHC PROFILE
SCALE: HOR.: 1"=40'
VERT.: 1"=4'

SHC #1A PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'

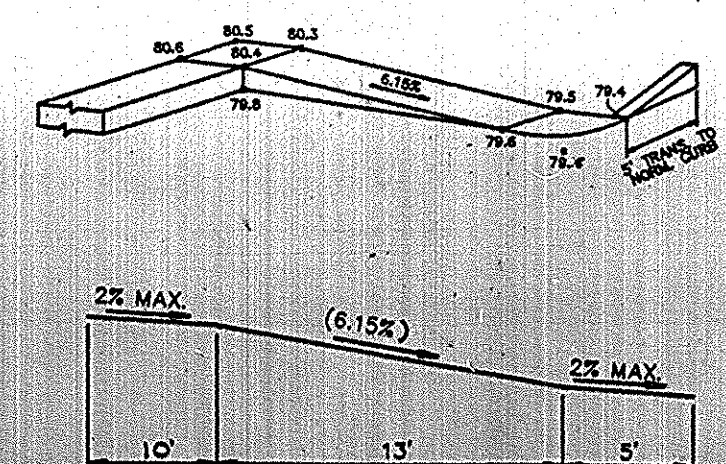


ROOF DRAIN PROFILE #1

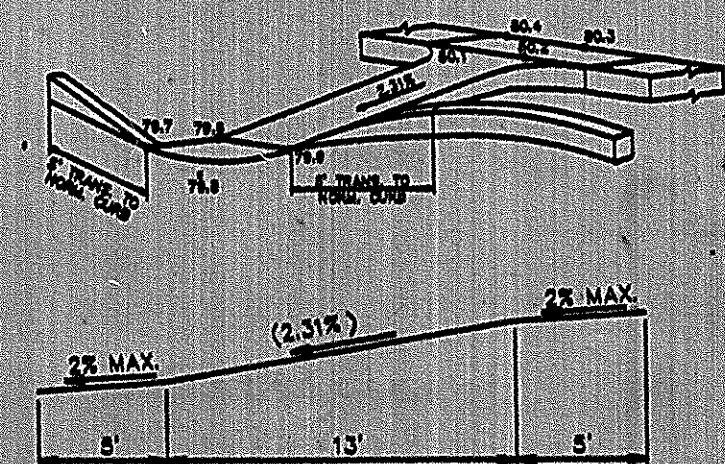
ROOF DRAIN PROFILE



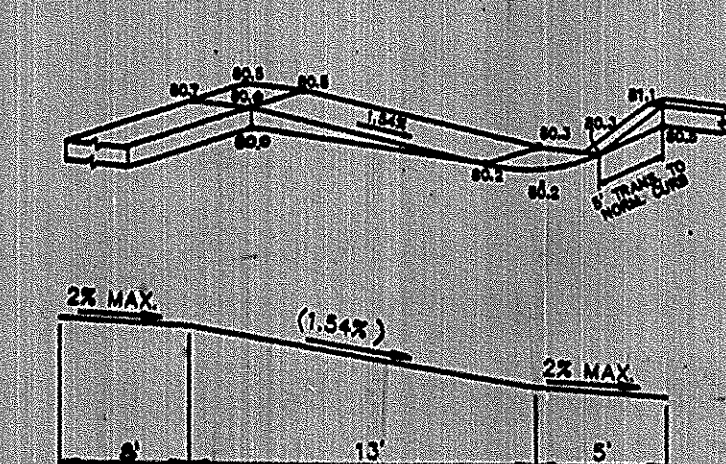
H.C. RAMP #1 DETAIL



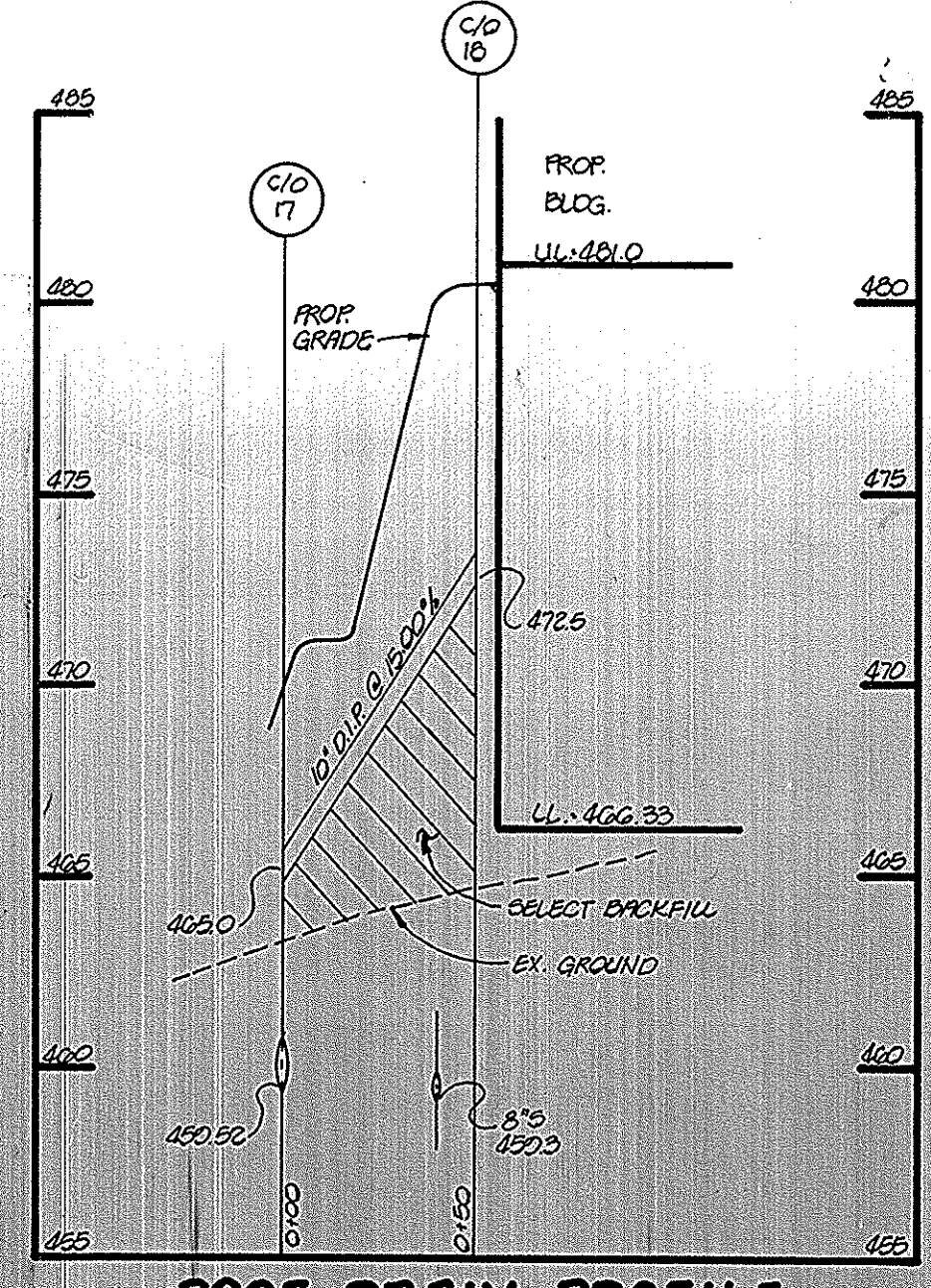
H.C. RAMP #2 DETAIL



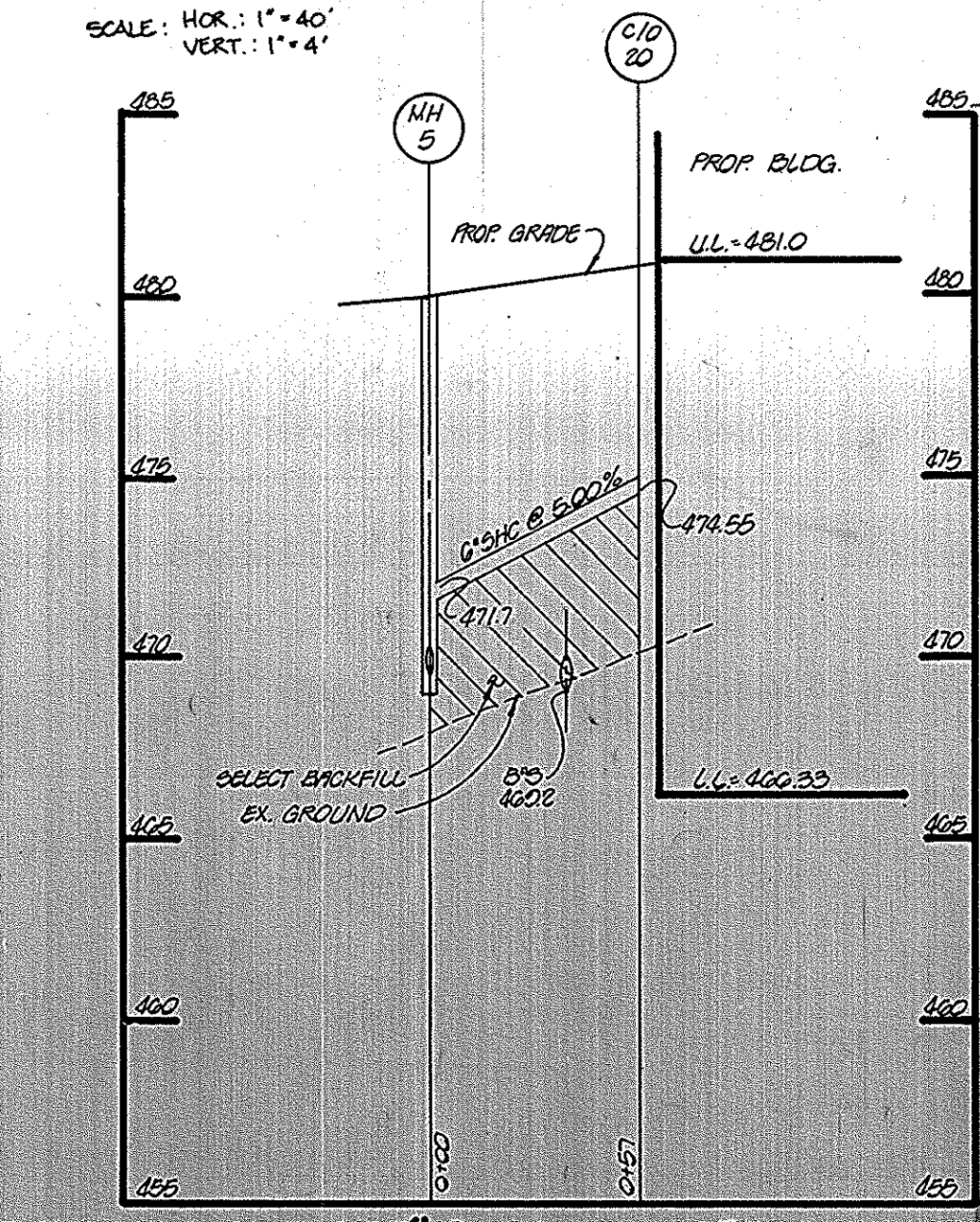
H.C. RAMP #3 DETAIL



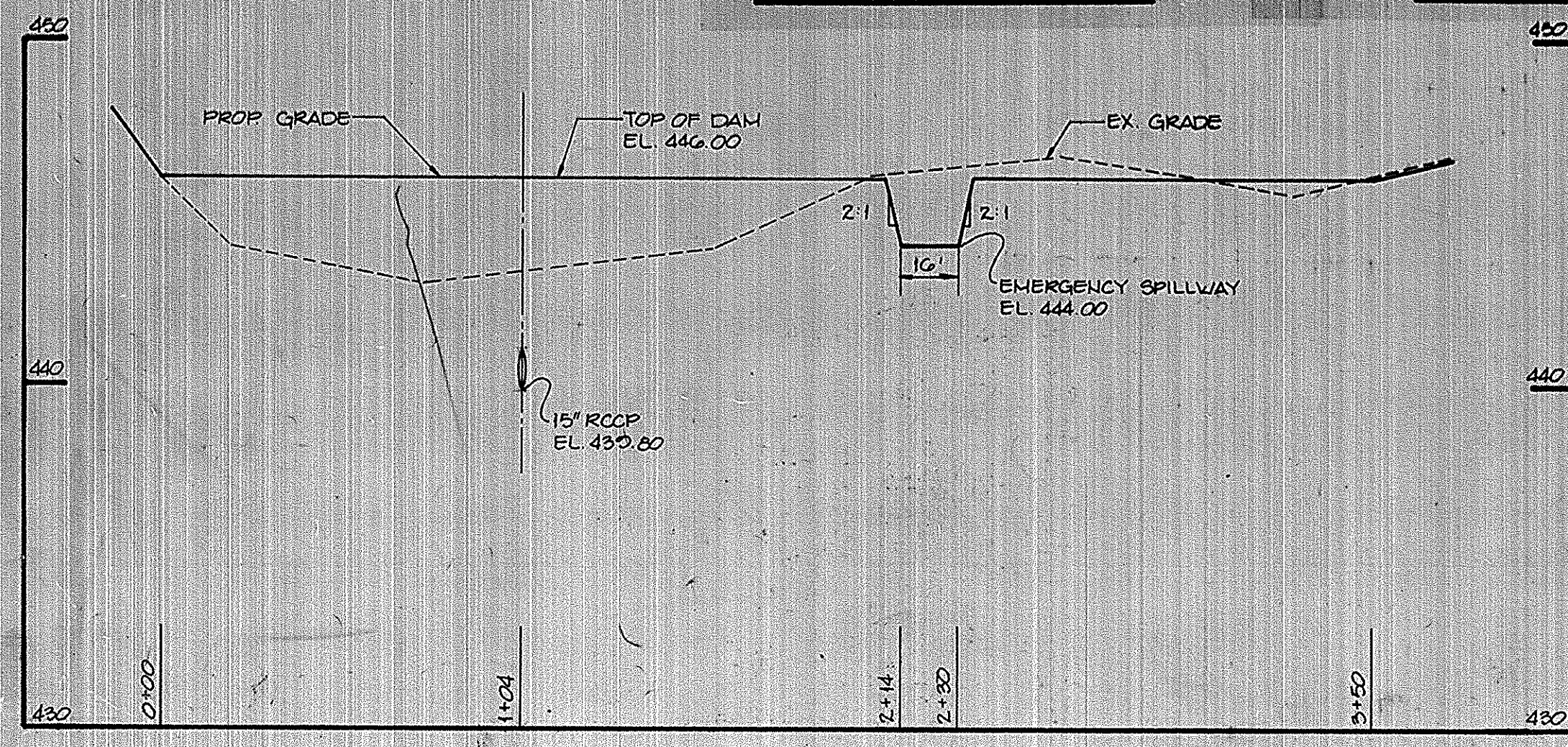
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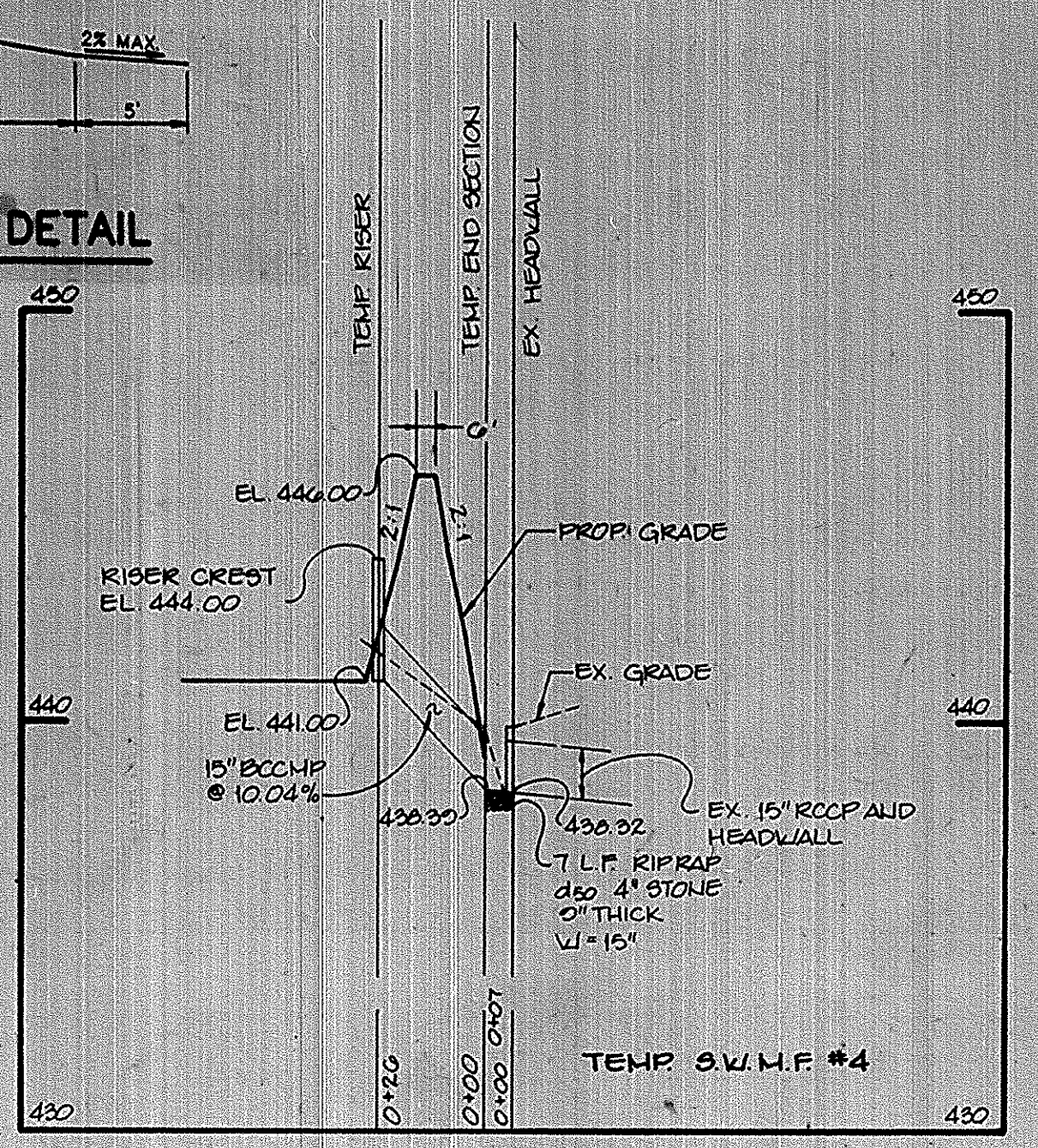
ROOF DRAIN PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'



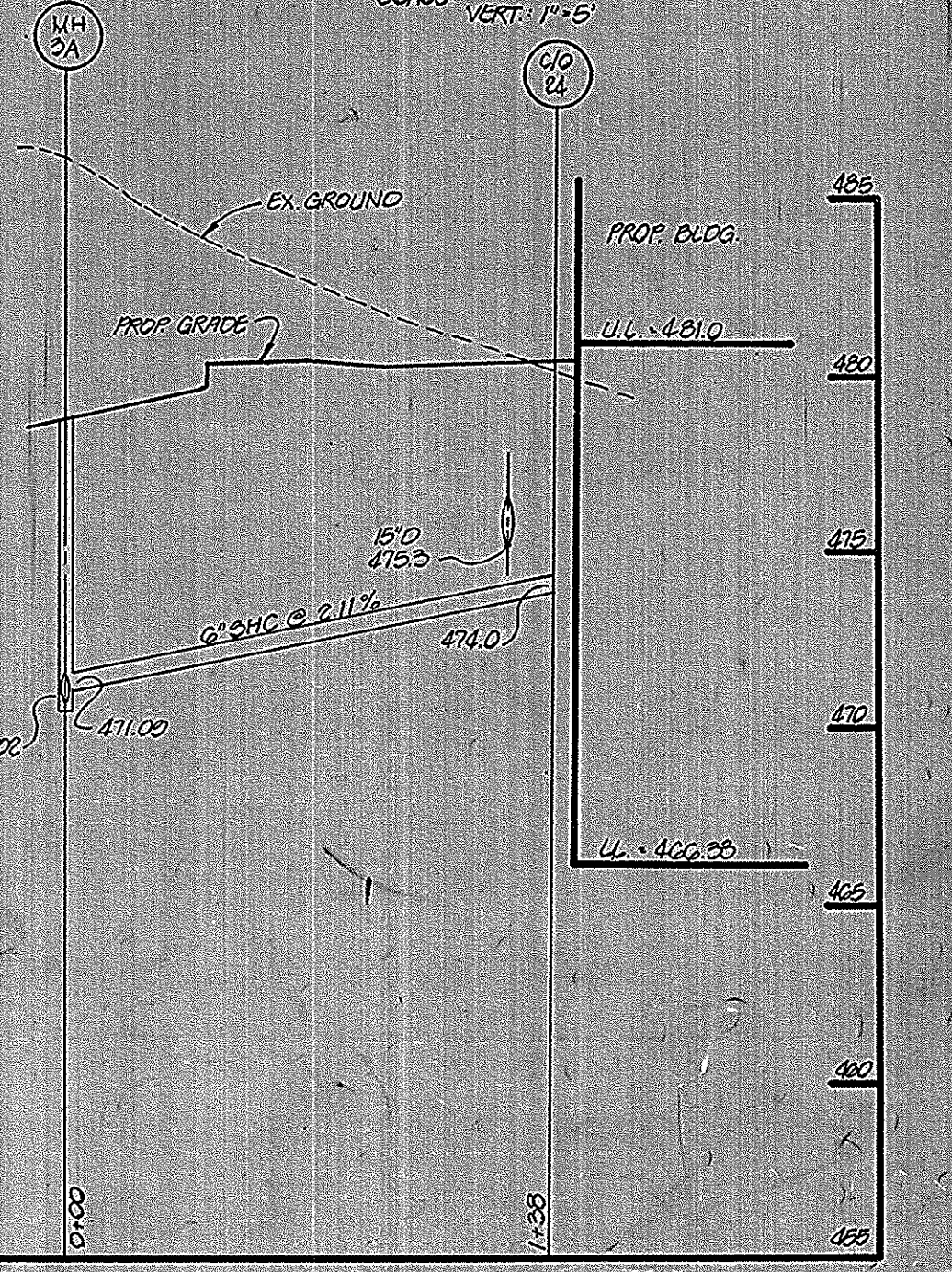
SHC #4 PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'



**TEMP. SW/MF #4
PROFILE ALONG EMBANKMENT**



**PROFILE THROUGH
PRINCIPAL SPILLWAY**



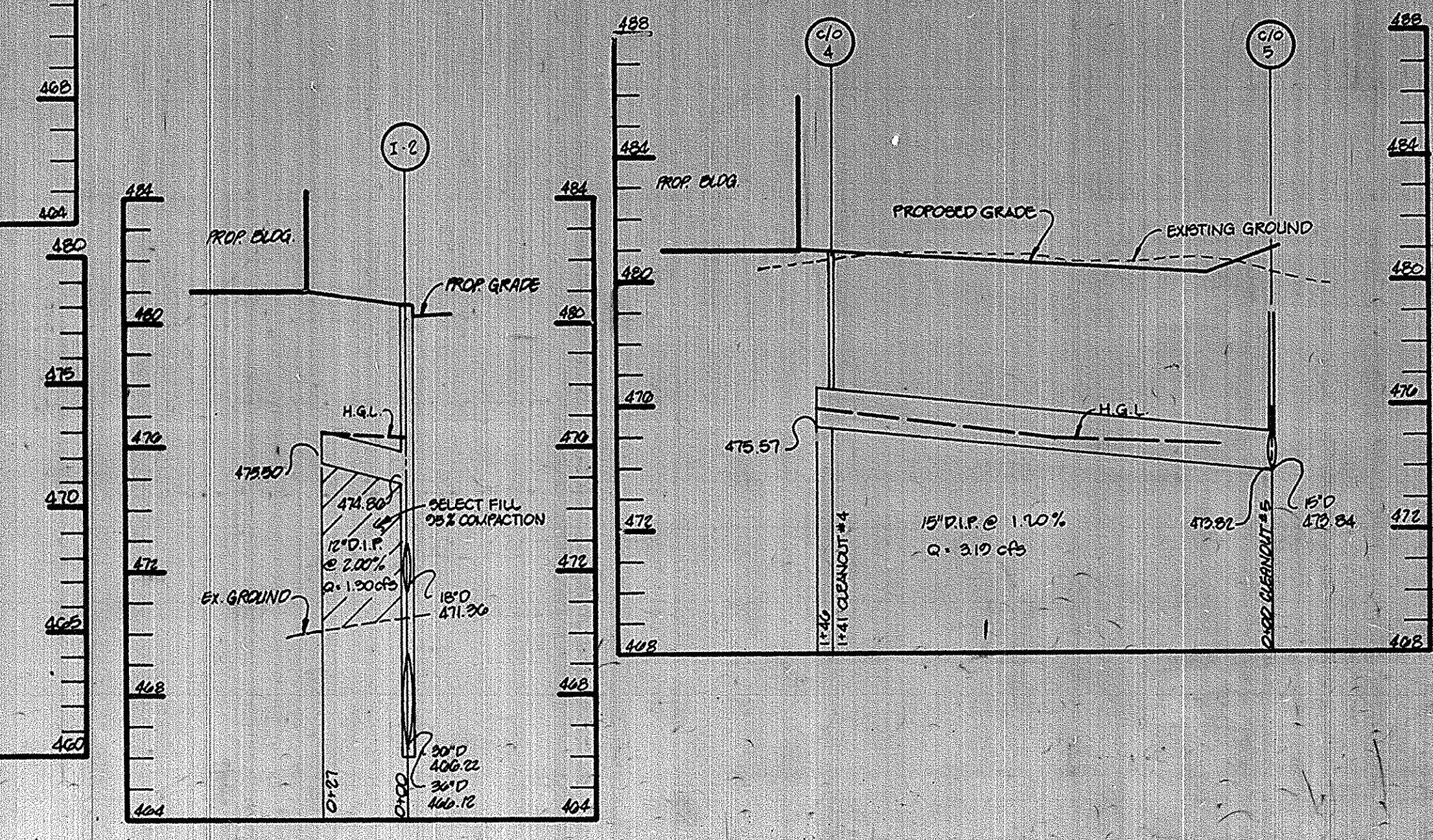
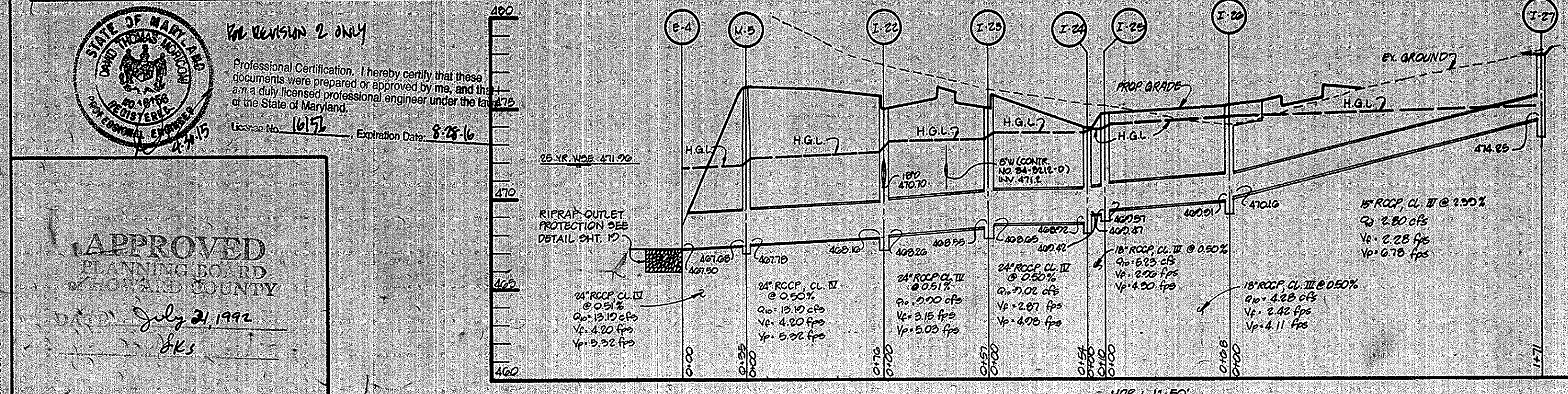
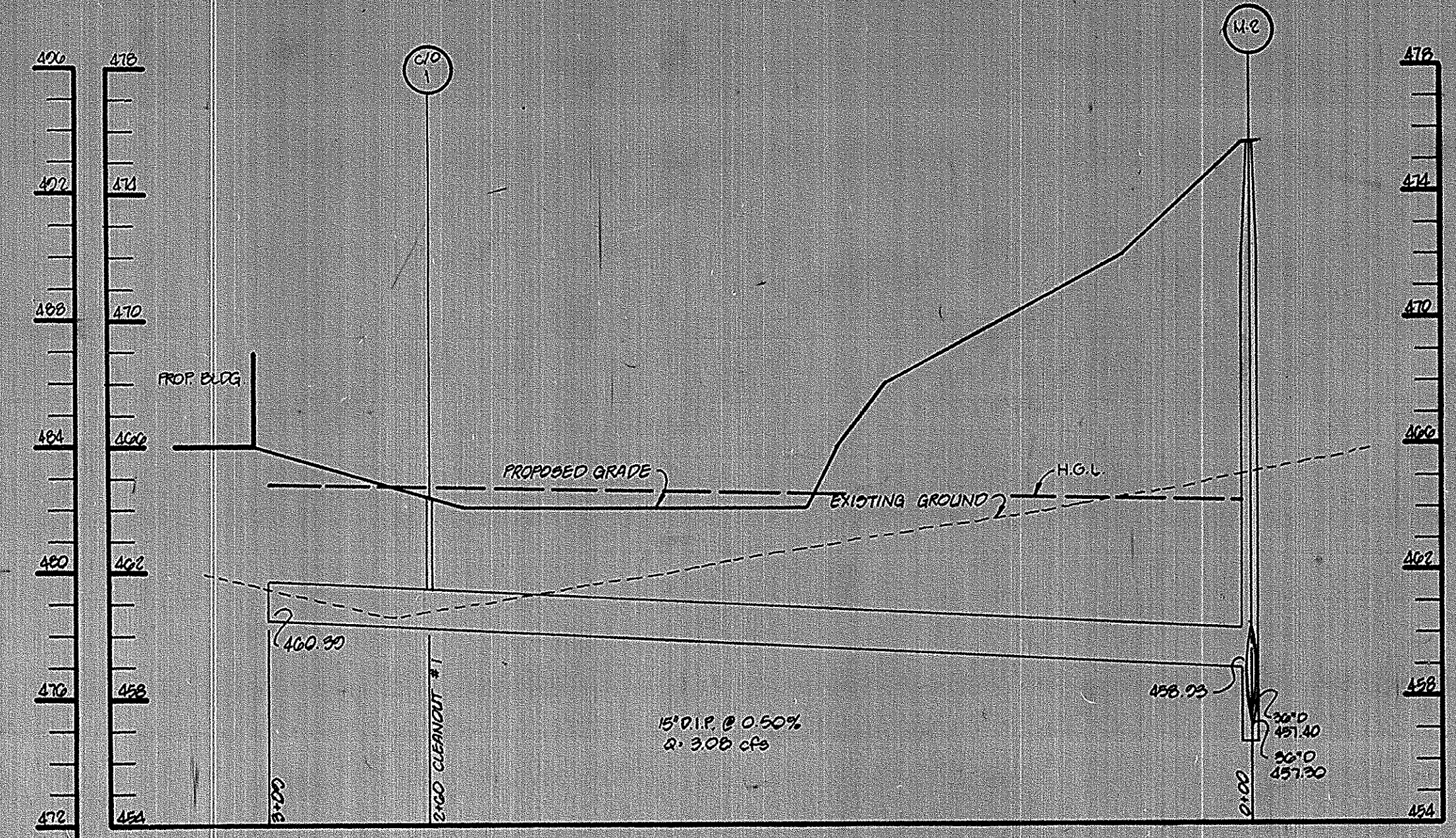
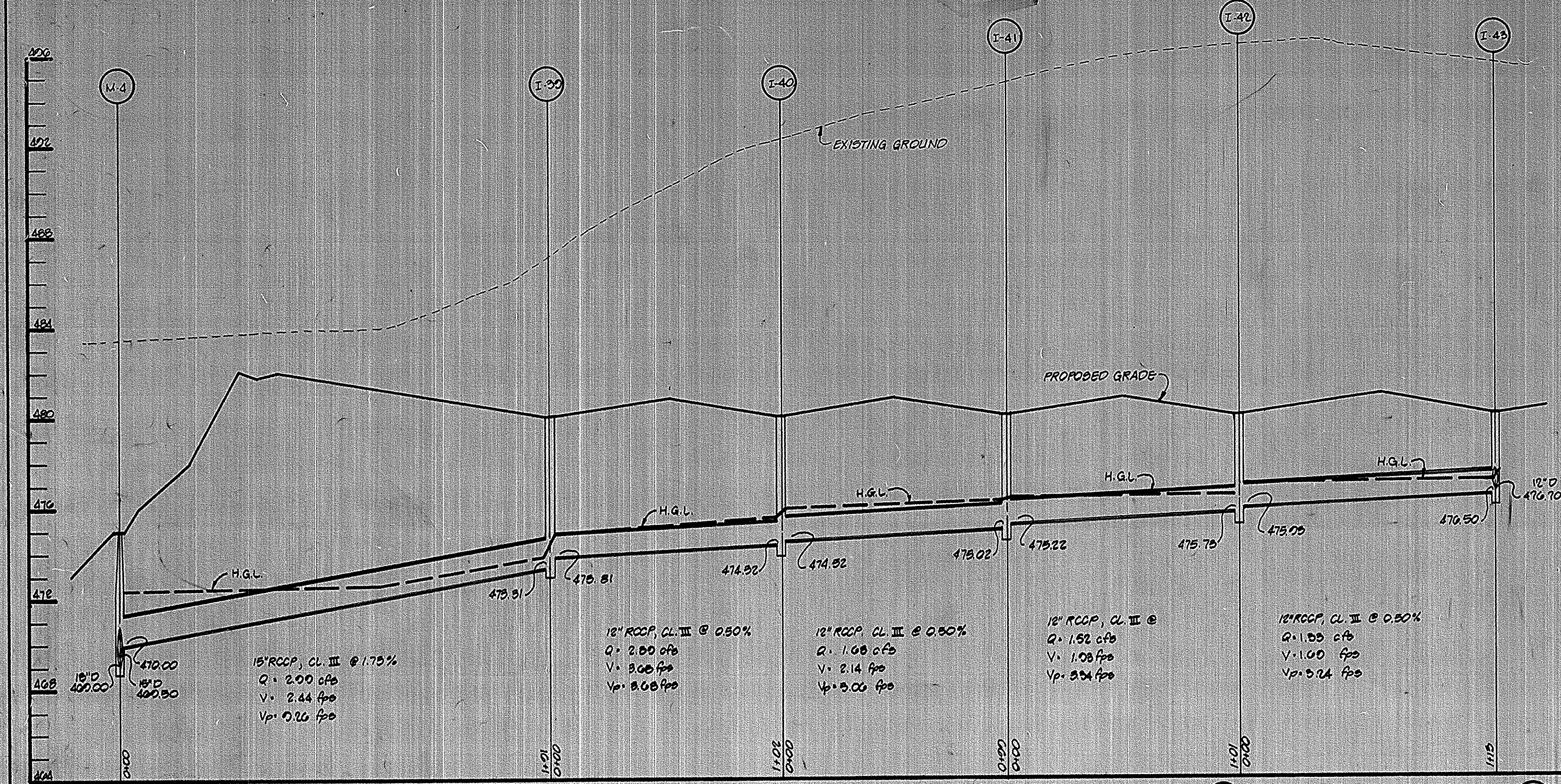
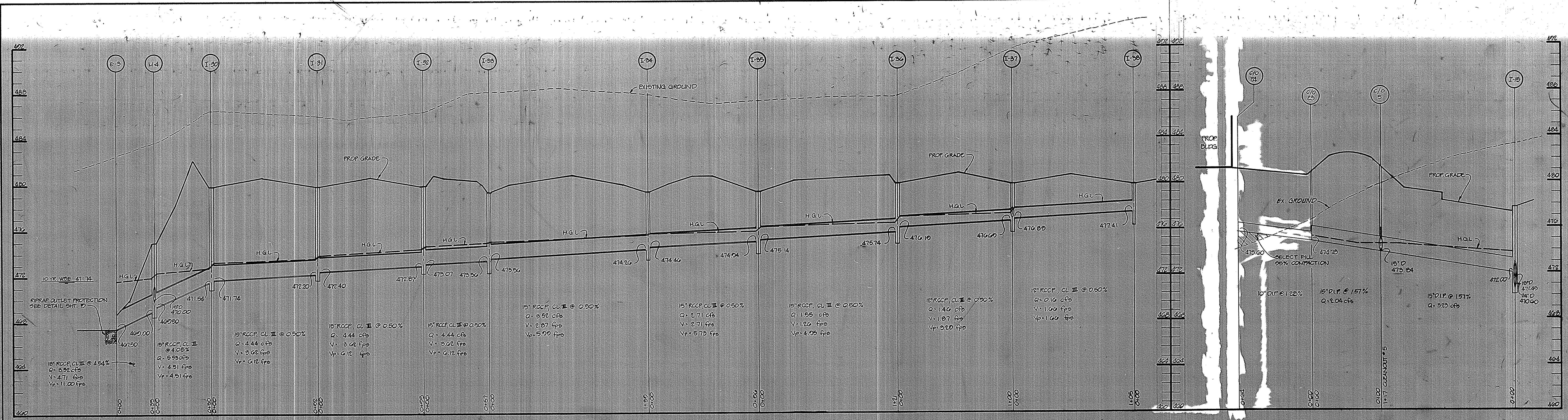
SHC #5 PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Bland per JSM 8/25/92	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
James P. Smith 8/27/92	DATE
Thomas J. Blum 8/27/92	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
James P. Smith 8/27/92	DATE
CHIEF, BUREAU OF ENGINEERING	
8-28-15 2	REVISED SHEET TOTAL & SHEET NAME
8-27-92 1	ADDED ROOF DRAIN & SHC PROFILE
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP	BOARD OF EDUCATION OF HOWARD COUNTY
10275 LITTLE PATRIMENT PARKWAY	10275 LITTLE PATRIMENT PARKWAY
COLUMBIA, MARYLAND 21084	COLUMBIA, MARYLAND 21084
PROJECT: RIVER HILL	WESTERN HIGH SCHOOL
AREA: TAX MAP 09 PART OF PARCEL 0	VILLAGE OF RIVER HILL, SECTION 5, AREA 1, LOT 1
89 th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
TITLE: REVISED SITE DEVELOPMENT PLAN & STORM DRAIN PROFILES	
RIEMER MUEGGE & ASSOCIATES, INC.	
A Land Planning, Engineering and Consulting Firm	
8818 Centre Park Drive - Suite 200 - Columbia, Maryland 21045	
301-997-8900 • FAX: 301-997-9282	
8-12-92	8-12-92
DATE	DATE
DESIGNED BY: FE	DESIGNED BY: FE
DRAWN BY: DBB	DRAWN BY: DBB
PROJECT NO: 80209	PROJECT NO: 80209
DATE: AUGUST 10, 1992	DATE: AUGUST 10, 1992
SCALE: HOR.: 1"=40'	SCALE: HOR.: 1"=40'
VERT.: 1"=4'	VERT.: 1"=4'
DRAWING NO. C10B OF 25	DRAWING NO. C10B OF 25

STATE OF MARYLAND
PROFESSIONAL ENGINEER
ARTHUR E. MUEGGE
No. 1612
Expiration Date: 8-28-16

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: July 21, 1992





Professional Certification. I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16175 Exp. Date 8-28-16

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE July 21, 1992
 JLS

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

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 James M. Bond per JLS 8/25/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 James M. Bond per JLS 8/27/92
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND LAND DEVELOPMENT.
 Emma Hilmar 8/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 James M. Bond per JLS 8/27/92
 DIRECTOR DATE

James M. Bond per JLS 8/27/92
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
8/27/92	1	REVISED SHEET TOTAL & SERIAL NAME
8/27/92	2	ADDED C/D 23 & 24 TO PROFILE

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATENT PARKWAY COLUMBIA, MARYLAND 21048	BOARD OF EDUCATION OF HOWARD COUNTY 10010 ROUTE 100 ELLICOTT CITY, MARYLAND 20818

PROJECT: RIVER HILL
 WESTERN HIGH SCHOOL

AREA: TAX MAP 55 PART OF PARCEL 3
 VILLAGE OF RIVER HILL, SECTION 3, AREA 1, LOT 1
 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: REVISED SITE DEVELOPMENT PLAN
 STORM DRAIN PROFILES

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045
 301-997-8900 • FAX: 301-997-9282

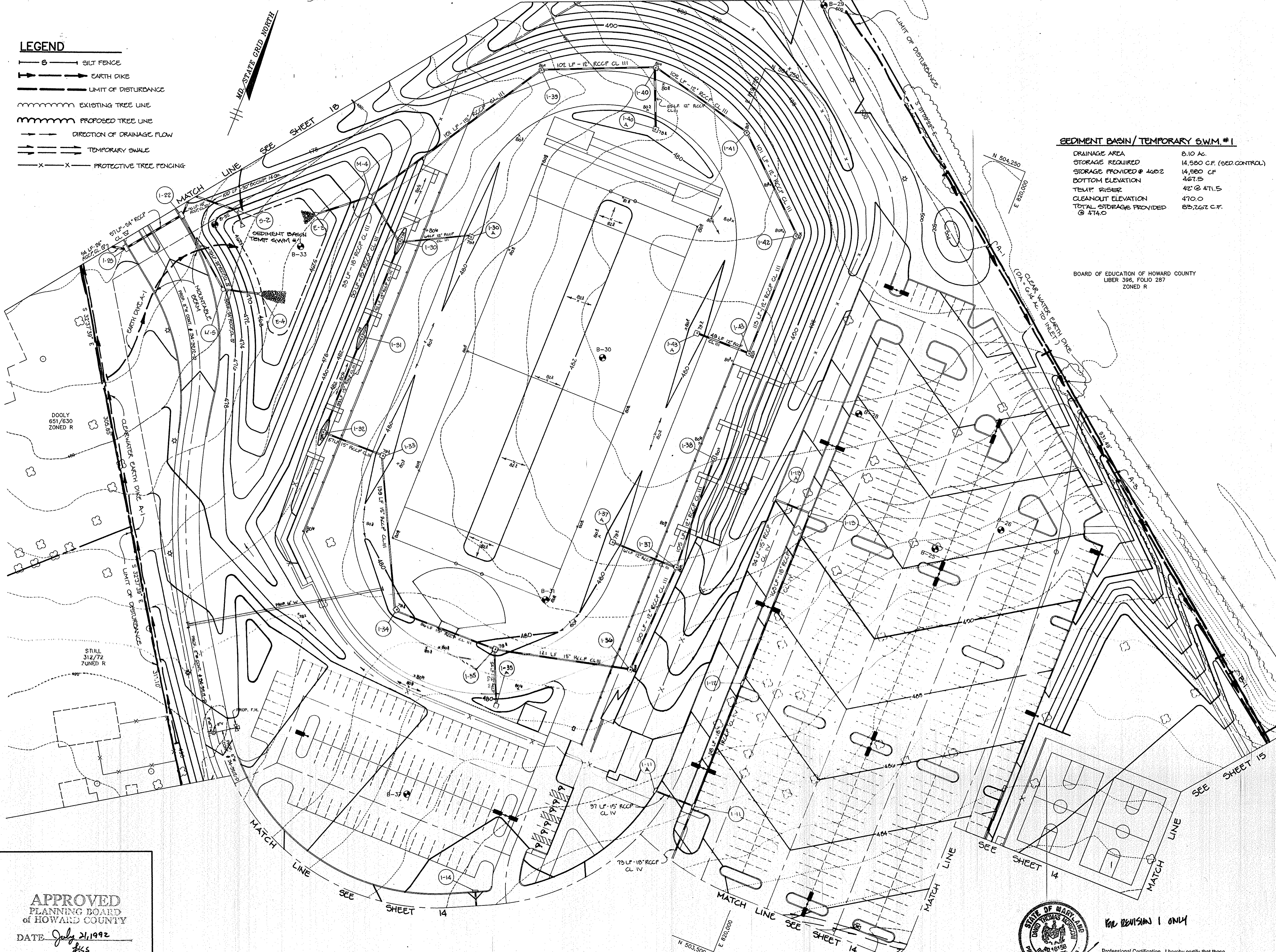
8-12-92
 5-2810 P-45-01
 WF-02-15) PD-210

DESIGNED BY: JTO
 DRAWN BY: MAD
 PROJECT NO: 80200
 DATE: AUGUST 12, 1992
 SCALE: HOR: 1"=50'
 VERT: 1"=5'
 DRAWING NO. C 12 OF 30

ARTHUR E. MUEGGE
 PROFESSIONAL ENGINEER

MATCH LINE SEE SHEET 18

- LEGEND**
- S — SILT FENCE
 - E — EARTH DIKE
 - — — — — LIMIT OF DISTURBANCE
 - — — — — EXISTING TREE LINE
 - — — — — PROPOSED TREE LINE
 - — — — — DIRECTION OF DRAINAGE FLOW
 - — — — — TEMPORARY SWALE
 - X — X — PROTECTIVE TREE FENCING



SEDIMENT BASIN/TEMPORARY SWM #1

DRAINAGE AREA	8.10 AC.
STORAGE REQUIRED	14,500 C.F. (SED. CONTROL)
STORAGE PROVIDED @ 40:2	14,500 C.F.
BOTTOM ELEVATION	467.5
TEMP. FISHER	42' @ 471.5
CLEANOUT ELEVATION	470.0
TOTAL STORAGE PROVIDED @ 474.0	83,262 C.F.

BOARD OF EDUCATION OF HOWARD COUNTY
LIBER 396, FOLIO 287
ZONED R

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

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 WILL 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.
Cathleen Conley Young 8/18/92
DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
Arthur E. Muegge 8/12/92
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
James M. Helm 8/18/92
S.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. ... 8/18/92
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

James M. ... 8/25/92
COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James ... 8/27/92
DIRECTOR DATE
Anna ... 8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James ... 8/27/92
DIRECTOR DATE
... 8-27-92
CHIEF, BUREAU OF ENGINEERING DATE

4-20-15	1	REVISED SHEET TOTAL & SHEET NAME
DATE NO.		REVISION

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043

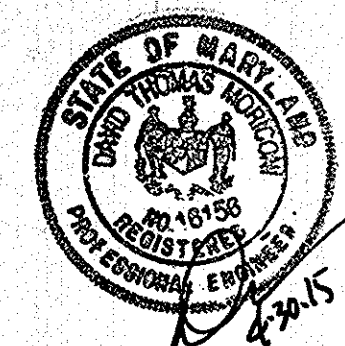
PROJECT **RIVER HILL WESTERN HIGH SCHOOL**

AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **REVISED SITE DEVELOPMENT NAME GRADING & SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX : 410-997-9282

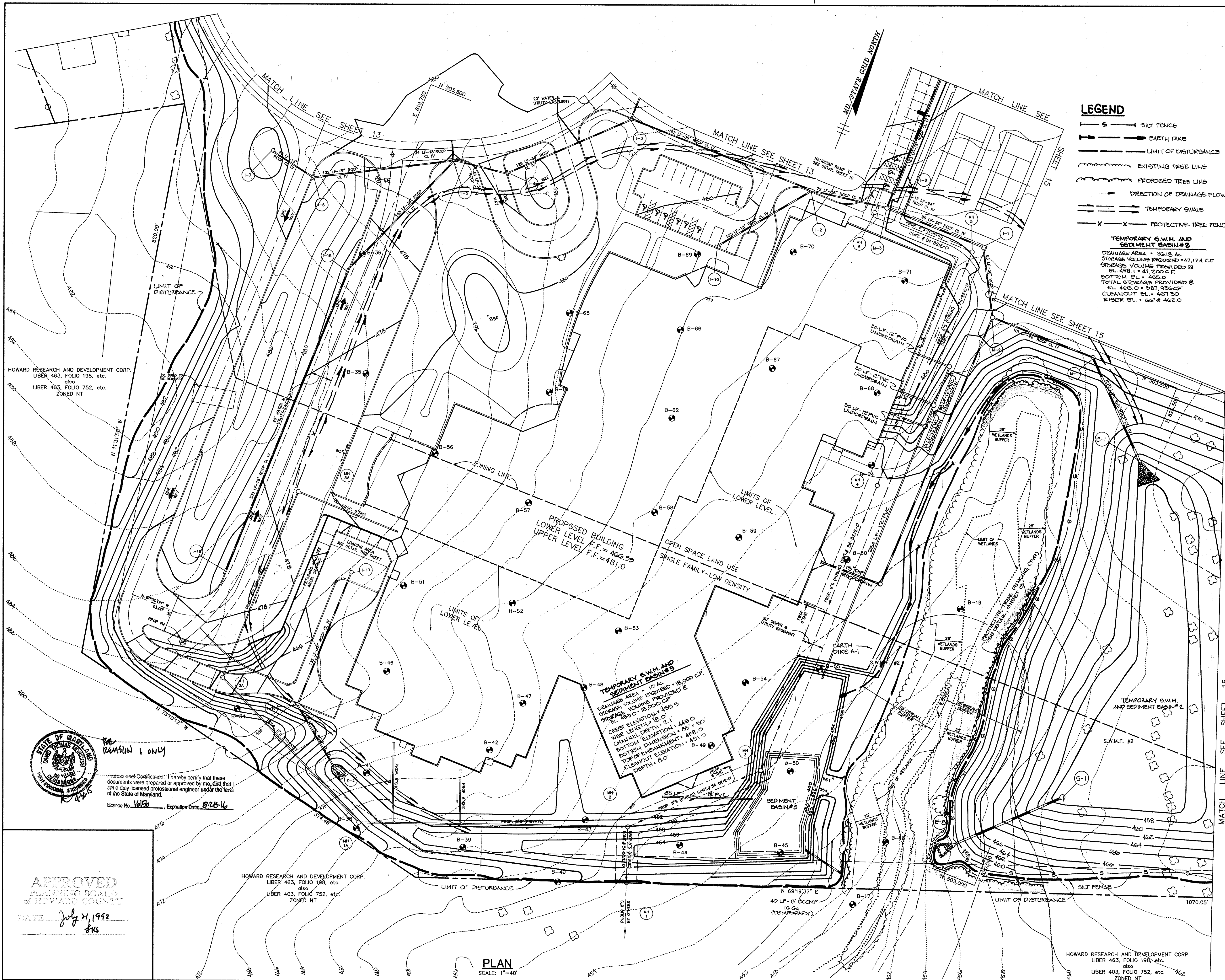
8-12-92	8-22-92
DATE	DATE
DESIGNED BY : WCV	
DRAWN BY : WCV	
PROJECT NO : 80209	
DATE : AUGUST 12 1992	
SCALE : AS SHOWN	
DRAWING NO. C13 OF 30	



FOR REVISION 1 ONLY
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156, Exp. Date: 8-28-16

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
JLS

PLAN
SCALE: 1"=40'



LEGEND

- S — SILT FENCE
- E — EARTH DIKE
- L — LIMIT OF DISTURBANCE
- T — EXISTING TREE LINE
- P — PROPOSED TREE LINE
- D — DIRECTION OF DRAINAGE FLOW
- T — TEMPORARY SWALE
- X — PROTECTIVE TREE FENCING

TEMPORARY S.W.M. AND SEDIMENT BASIN #2

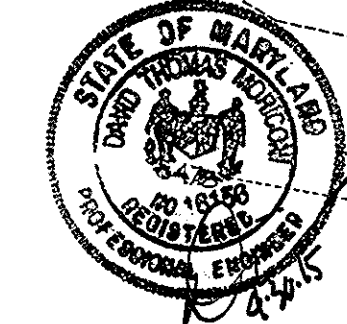
DRAINAGE AREA = 22.18 AC.
 STORAGE VOLUME REQUIRED = 47,124 C.F.
 STORAGE VOLUME PROVIDED @
 EL. 498.1 = 47,200 C.F.
 BOTTOM EL. = 485.0
 TOTAL STORAGE PROVIDED @
 EL. 465.0 = 587,930 C.F.
 CLEANOUT EL. = 457.50
 RISER EL. = 66' @ 462.0

TEMPORARY S.W.M. AND SEDIMENT BASIN #5

DRAINAGE AREA = 10.1 AC.
 STORAGE VOLUME REQUIRED = 18,000 C.F.
 STORAGE VOLUME PROVIDED @
 EL. 495.0 = 18,000 C.F.
 CREST ELEVATION = 495.0
 WIRE LEISER H. = 15.0'
 CHANNEL DEPTH = 2.0'
 BOTTOM ELEVATION = 485.0
 TOP OF CHANNEL = 495.0
 CLEANOUT ELEVATION = 451.0
 DEPTH = 5.0'

HOWARD RESEARCH AND DEVELOPMENT CORP.
 LIBER 463, FOLIO 198, etc.
 also
 LIBER 403, FOLIO 752, etc.
 ZONED NT

HOWARD RESEARCH AND DEVELOPMENT CORP.
 LIBER 463, FOLIO 198, etc.
 also
 LIBER 403, FOLIO 752, etc.
 ZONED NT



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16192 Expiration Date: 8-28-96

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY

DATE July 21, 1992
 JIC

PLAN
 SCALE: 1"=40'

HOWARD RESEARCH AND DEVELOPMENT CORP.
 LIBER 463, FOLIO 198, etc.
 also
 LIBER 403, FOLIO 752, etc.
 ZONED NT

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

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 WILL 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.

Cathleen Conley Jones 8/19/92
 DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Arthur E. Muegge 8-18-92
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Jane M. Nelson JMC 8/18/92
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm RWZ 8/18/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Boyd JMB 8/25/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Jane M. Nelson JMC 8/27/92
 DIRECTOR DATE

Shirley J. Hilgemath SHJ 8/27/92
 CHIEF, DIVISION OF COMMUNITY DATE
 PLANNING AND LAND DEVELOPMENT #43

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

James M. Brown JMB 8/27/92
 DIRECTOR DATE

Arthur E. Muegge AEM 8-27-92
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION
4-21-91	1	REVISED SHEET TOTAL & SCHOOL NAME

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 10B ELLCOTT CITY, MARYLAND 21043

PROJECT **RIVER HILL WESTERN HIGH SCHOOL**

AREA TAX MAP 35 PART OF PARCEL 3
 VILLAGE OF RIVER HILL SECTION 5 AREA 1 LOT 1
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE **REVISED SITE DEVELOPMENT PLAN GRADING & SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

8-12-92
 DATE

DESIGNED BY:

DRAWN BY: WCW

PROJECT NO: 80209

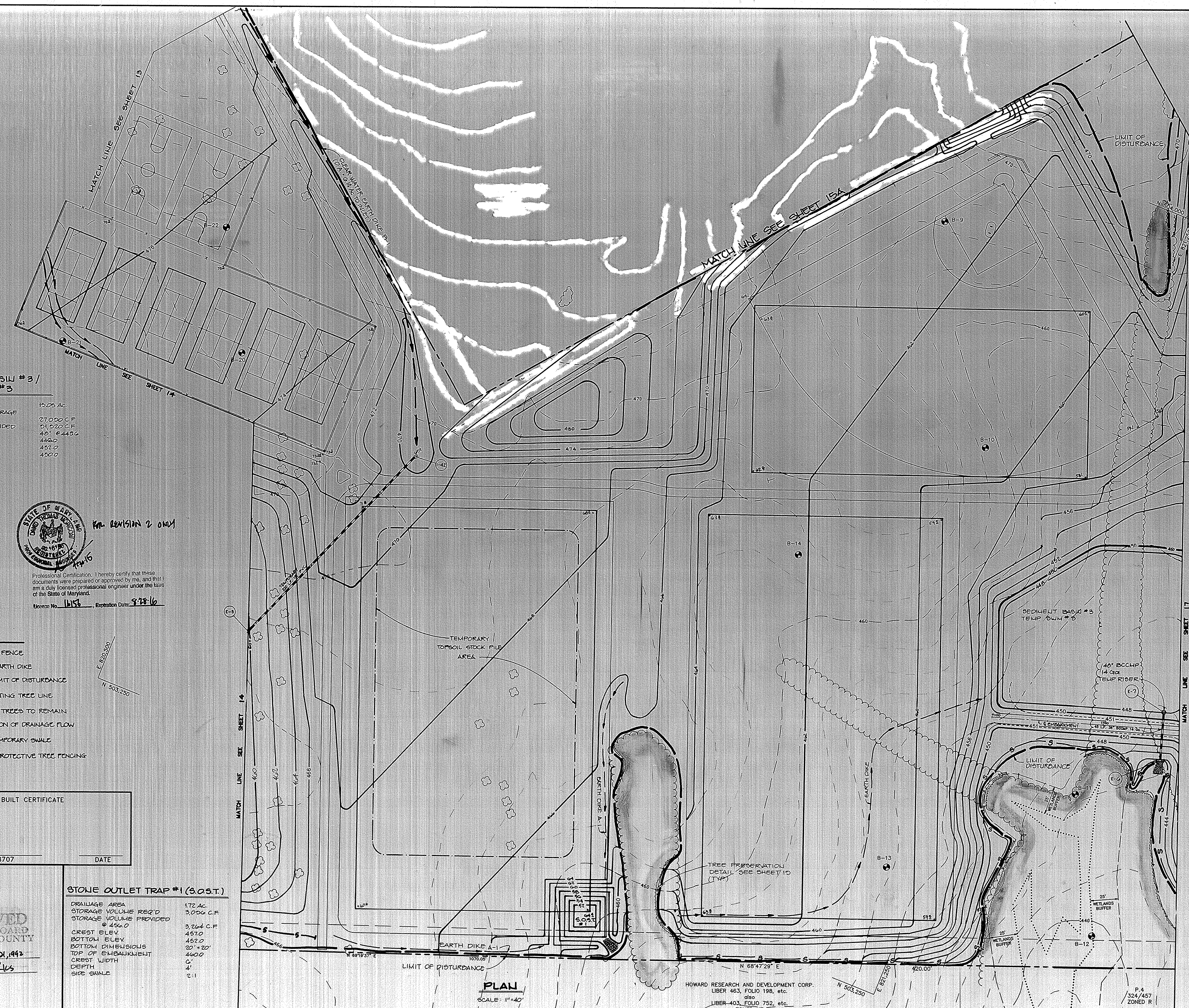
DATE: AUGUST 12, 1992

SCALE: AS SHOWN

DRAWING NO. C14 OF 30

ARTHUR E. MUEGGE #8707

MD STATE GRD NORTH



SEDIMENT BASIN #3 / TEMP. SWM #3

DRAINAGE AREA	19.05 AC
SEDIMENT CONTROL STORAGE REQ'D	27,000 C.F.
STORAGE VOLUME PROVIDED	21,220 C.F.
TEMP RISER	48" @ 44.00
BOTTOM ELEV.	446.0
TOP OF EMBANKMENT	452.0
CLEAROUT ELEV.	450.0



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 11516 Expiration Date 9-25-16

- LEGEND**
- SILT FENCE
 - ▲— EARTH DIKE
 - LIMIT OF DISTURBANCE
 - EXISTING TREE LINE
 - EX. TREES TO REMAIN
 - DIRECTION OF DRAINAGE FLOW
 - ▲— TEMPORARY SWALE
 - X—X— PROTECTIVE TREE FENCING

AS-BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

STONE OUTLET TRAP #1 (S.O.T.)

DRAINAGE AREA	1.72 AC
STORAGE VOLUME REQ'D	3,000 C.F.
STORAGE VOLUME PROVIDED @ 454.0	3,264 C.F.
CREST ELEV.	457.0
BOTTOM ELEV.	452.0
BOTTOM DIMENSIONS	20' x 20'
TOP OF EMBANKMENT	460.0
CREST WIDTH	4'
DEPTH	4'
SIDE SWALE	2:1

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY

DATE July 21, 1992
 [Signature]

PLAN
 SCALE: 1"=40'

HOWARD RESEARCH AND DEVELOPMENT CORP.
 LIBER 463, FOLIO 198, etc.
 also
 LIBER 403, FOLIO 752, etc.
 ZONED NT

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 WILL 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.

Cathleen Conley Young 8/18/92
 DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Arthur E. Muegge 8-16-92
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Helms 8/18/92
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm 8/18/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Boyd 8/25/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Batta 8/27/92
 DIRECTOR DATE

Emma Halimash 8/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James M. Boyd 8/27/92
 DIRECTOR DATE

James M. Boyd 8-27-92
 CHIEF, BUREAU OF ENGINEERING DATE

43815	2	REVISED SHEET TOTAL & SHEET NAME
1-15-94	1	REVISE # : GRADES

DATE	NO.	REVISION
OWNER	DEVELOPER	
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043	

PROJECT **RIVER HILL WESTERN HIGH SCHOOL**

AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

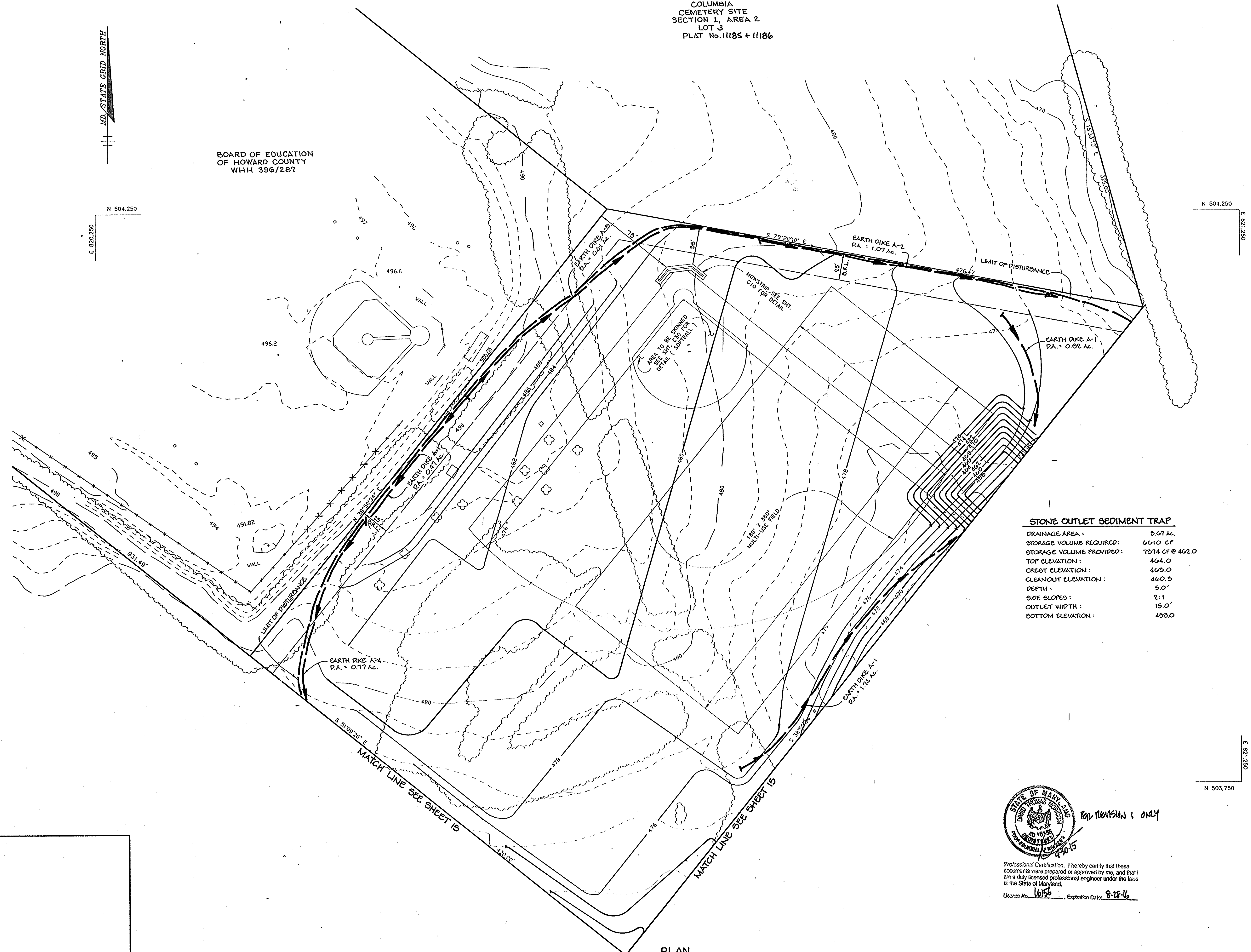
TITLE **GRADING & SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX: 410-997-9282

0-12-92 DATE
 S-92-16; WP-92-151
 P-95-07; PB-27A
 DESIGNED BY: CJR
 DRAWN BY: CB
 PROJECT NO: 80209
 DATE: AUGUST 12 1992
 SCALE: AS SHOWN
 DRAWING NO. 015 OF 02

COLUMBIA
CEMETERY SITE
SECTION 1, AREA 2
LOT 3
PLAT No. 11185 + 11186

BOARD OF EDUCATION
OF HOWARD COUNTY
WHH 396/287



STONE OUTLET SEDIMENT TRAP

DRAINAGE AREA:	5.67 AC.
STORAGE VOLUME REQUIRED:	6610 CF
STORAGE VOLUME PROVIDED:	7374 CF @ 462.0
TOP ELEVATION:	464.0
CREST ELEVATION:	463.0
CLEANOUT ELEVATION:	460.3
DEPTH:	5.0'
SIDE SLOPES:	2:1
OUTLET WIDTH:	15.0'
BOTTOM ELEVATION:	458.0



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156, Expiration Date: 8-18-16

PLAN
SCALE: 1"=40'

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 WILL 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.
Catherine Conley Spring 1-24-94
DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
Arthur E. Muegge 1-24-94
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
Tamara Engler 4/10/94
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
John L. Robertson 4/18/94
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE
ARTHUR E. MUEGGE #8707 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
James B. Smith 4/29/94
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
John J. Murray 4/27/94
CHIEF, DIVISION OF LAND DEVELOPMENT, COST AND RESEARCH DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
James M. Swan 4/21/94
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
Charles E. Reppin 4/20/94
CHIEF, BUREAU OF ENGINEERING DATE

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043

PROJECT RIVER HILL WESTERN HIGH SCHOOL

AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE REVISION SITE DEVELOPMENT POND GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

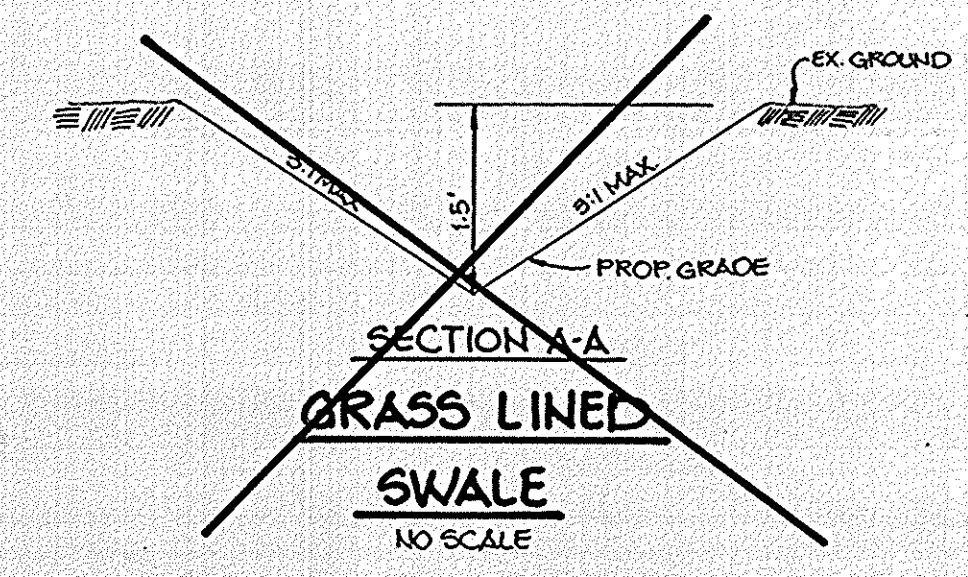
1-24-94
DESIGNED BY: WCW
DRAWN BY: WCW
PROJECT NO: 80209
DATE:
SCALE: AS SHOWN
DRAWING NO. 15A OF 30
ARTHUR E. MUEGGE #8707



AS BUILT CERTIFICATE
 ARTHUR E. MUEGGE #8707 _____ DATE _____

~~STONE OUTLET TRAP #2 (S.O.S.T.)~~

DRILLAGE AREA	4.5 AC.
STORAGE VOLUME REQ'D	8,100 C.F.
STORAGE VOLUME PROVIDED @ 142.5	8,344 C.F.
CREST ELEV.	443.5
BOTTOM ELEV.	436.0
BOTTOM DIMENSIONS	74' x 10'
TOP OF EMBANKMENT	444.5
CREST WIDTH	10'
DEPTH	6.5
FACE SLOPES	2:1



- LEGEND**
- SILT FENCE
 - ▶— EARTH DIKE
 - — — LIMIT OF DISTURBANCE
 - ~~~~~ EXISTING TREE LINE
 - ~~~~~ EXISTING TREES TO REMAIN
 - — — DIRECTION OF DRAINAGE FLOW
 - — — TEMPORARY SWALE
 - X—X— PROTECTIVE TREE FENCING

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE July 21, 1992
SLC

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 WILL 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.

Cathleen Conley Young 8/18/92
 DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Arthur E. Muegge 8/16/92
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Helm 8/18/92
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziehm 8/18/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Bond 8/25/92
 COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James A. Smith 8/27/92
 DIRECTOR DATE

Shirley Helm 8/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James G. Brown 8/27/92
 DIRECTOR DATE

Arthur E. Muegge 8-27-92
 CHIEF, BUREAU OF ENGINEERING DATE

4-28-15 2 REVISION SHEET TOTAL & SHEET NUMBER
 1-10-04 1 REVISION RE: GRADING

DATE	NO.	REVISION

OWNER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	DEVELOPER BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
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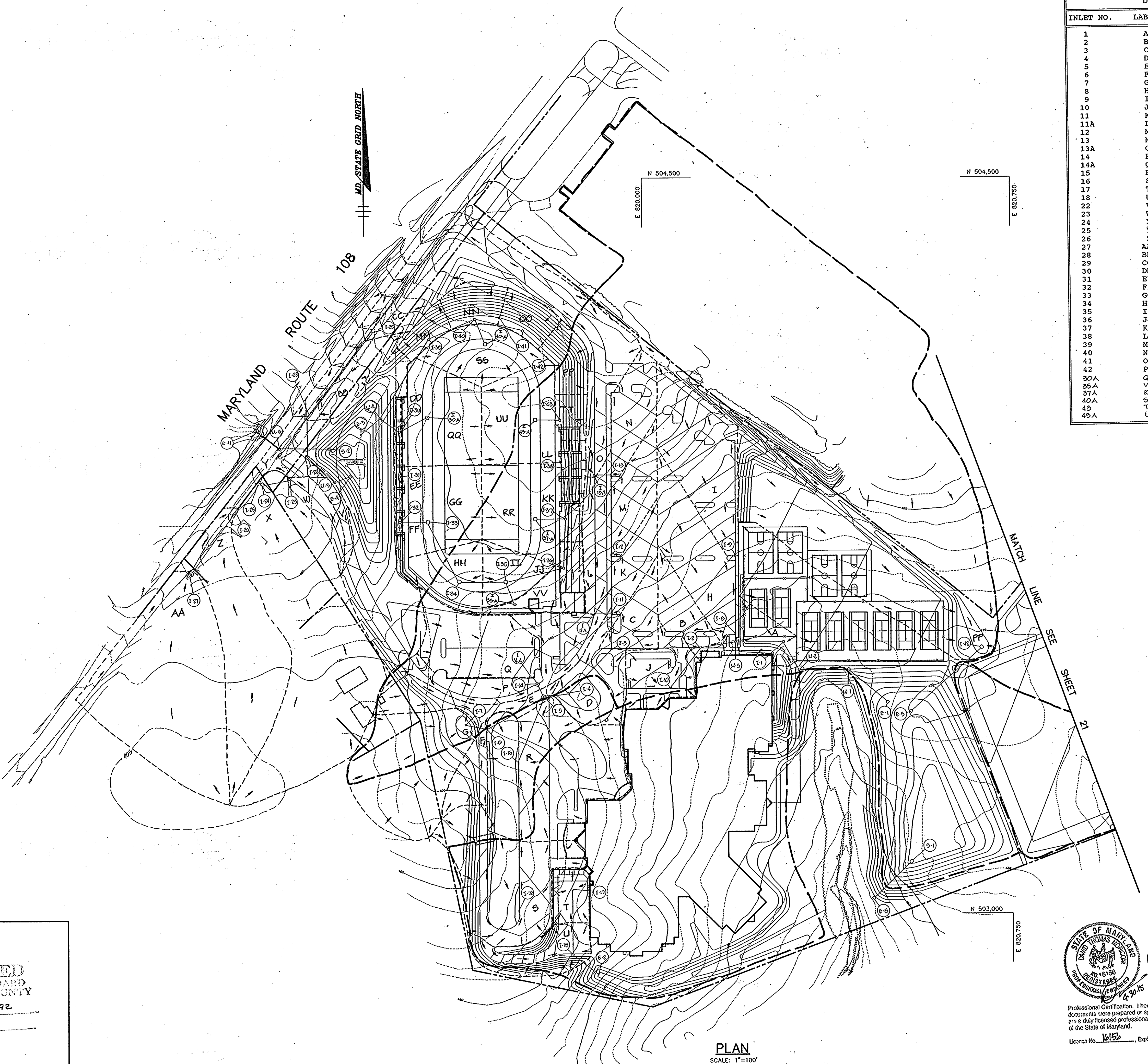
PROJECT RIVER HILL WESTERN HIGH SCHOOL

AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE REVISION SITE DEVELOPMENT PLAN GRADING & SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
 410-997-8900 FAX : 410-997-9282

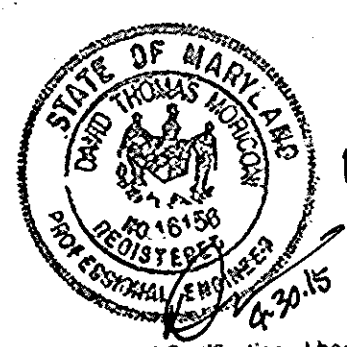
DATE 8-12-92	S-92-16; WP-92-151
DESIGNED BY : CJR	
DRAWN BY : CB	
PROJECT NO : 80209	
DATE : AUGUST 12 1992	
SCALE : 1" = 40'	
DRAWING NO. 016 OF 02	



DRAINAGE AREA DATA				
INLET NO.	LABEL	AREA	"C"	\$IMP.
1	A	0.24	0.55	54
2	B	0.31	0.84	97
3	C	0.26	0.83	96
4	D	0.47	0.70	77
5	E	0.36	0.49	44
6	F	0.43	0.31	19
7	G	1.12	0.21	0
8	H	0.73	0.81	93
9	I	0.89	0.82	94
10	J	0.41	0.70	76
11	K	0.28	0.81	93
11A	L	0.43	0.44	37
12	M	0.35	0.84	97
13	N	0.40	0.83	95
13A	O	0.66	0.43	36
14	P	0.75	0.54	52
14A	Q	0.63	0.22	5
15	R	1.52	0.42	66
16	S	1.16	0.53	50
17	T	0.20	0.73	80
18	U	0.41	0.48	42
22	V	0.27	0.64	67
23	W	0.37	0.53	49
24	X	2.81	0.28	12
25	Y	0.23	0.78	87
26	Z	0.89	0.35	22
27	AA	2.12	0.27	11
28	BB	0.47	0.39	28
29	CC	0.75	0.48	11
30	DD	0.10	0.16	0
31	EE	0.09	0.16	0
32	FF	0.09	0.16	0
33	GG	0.69	0.36	29
34	HH	0.37	0.50	49
35	II	0.27	0.44	41
36	JJ	0.11	0.22	0
37	KK	0.10	0.22	10
38	LL	0.12	0.16	0
39	MM	0.14	0.21	0
40	NN	0.22	0.21	0
41	OO	0.20	0.21	0
42	PP	0.22	0.21	0
43A	QQ	0.70	0.36	27
43A	VV	0.30	0.60	75
44A	RR	0.67	0.36	28
45A	SS	0.40	0.44	41
45A	TT	0.19	0.21	0
45A	UU	0.07	0.24	25

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
fcs

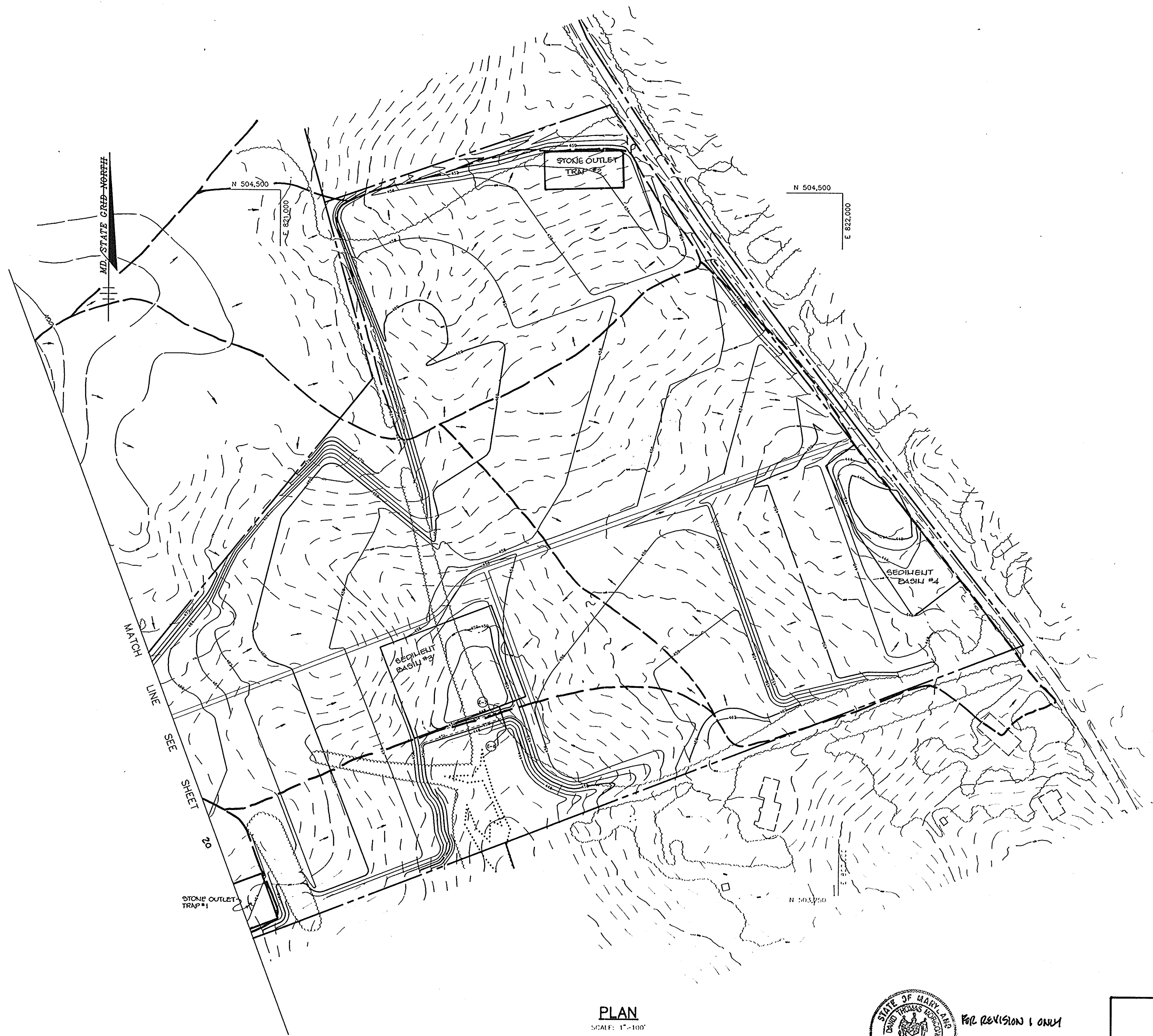
PLAN
SCALE: 1"=100'



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 48707, Expiration Date: 8-28-16

FOR REVISION 1 ONLY

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boyd <i>Joyce M. Boyd</i>	8/25/92
COUNTY HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
James S. Reutter <i>James S. Reutter</i>	8/27/92
DIRECTOR	DATE
Amelia J. Hilgamm <i>Amelia J. Hilgamm</i>	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
James M. <i>James M.</i>	8/27/92
DIRECTOR	DATE
James M. <i>James M.</i>	8-27-92
CHIEF, BUREAU OF ENGINEERING	DATE
4-3-15 1	REVISED SHEET TOTAL & SCHOOL NAME
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN DRAINAGE AREA MAP	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
8-12-92	8-02-16, WF-02-151, PB-278, F-02-07
DATE	DESIGNED BY : WCV
DATE	DRAWN BY : WCV
DATE	PROJECT NO : 80209
DATE	DATE : AUGUST 12, 1992
DATE	SCALE : AS SHOWN
DATE	DRAWING NO. C20 OF 22
ARTHUR E. MUEGGE #8707	



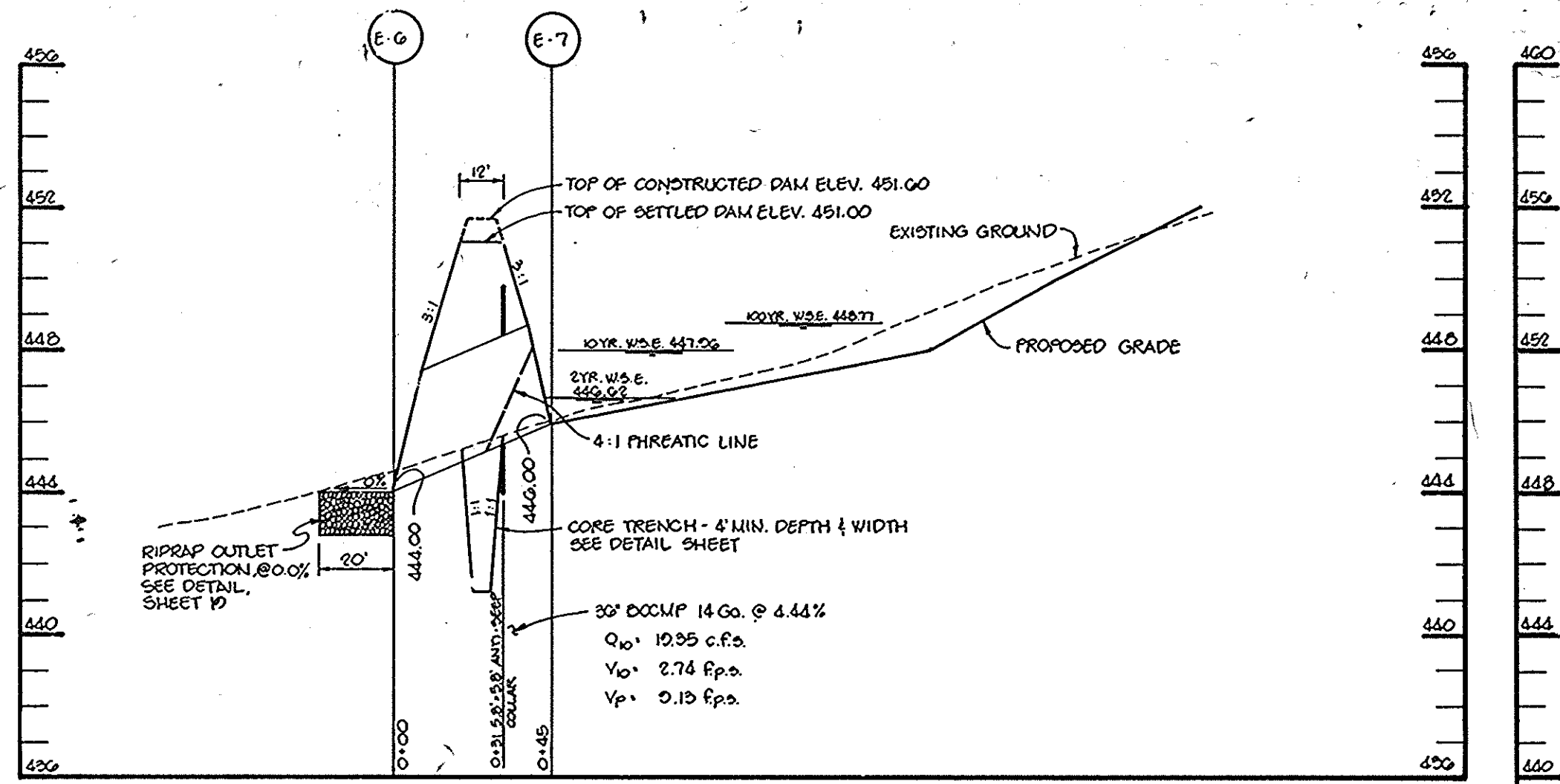
PLAN
SCALE: 1"=100'

STATE OF MARYLAND
PROFESSIONAL ENGINEER
ARTHUR E. MUEGGE #43707
4-30-15
FOR REVISION 1 ONLY

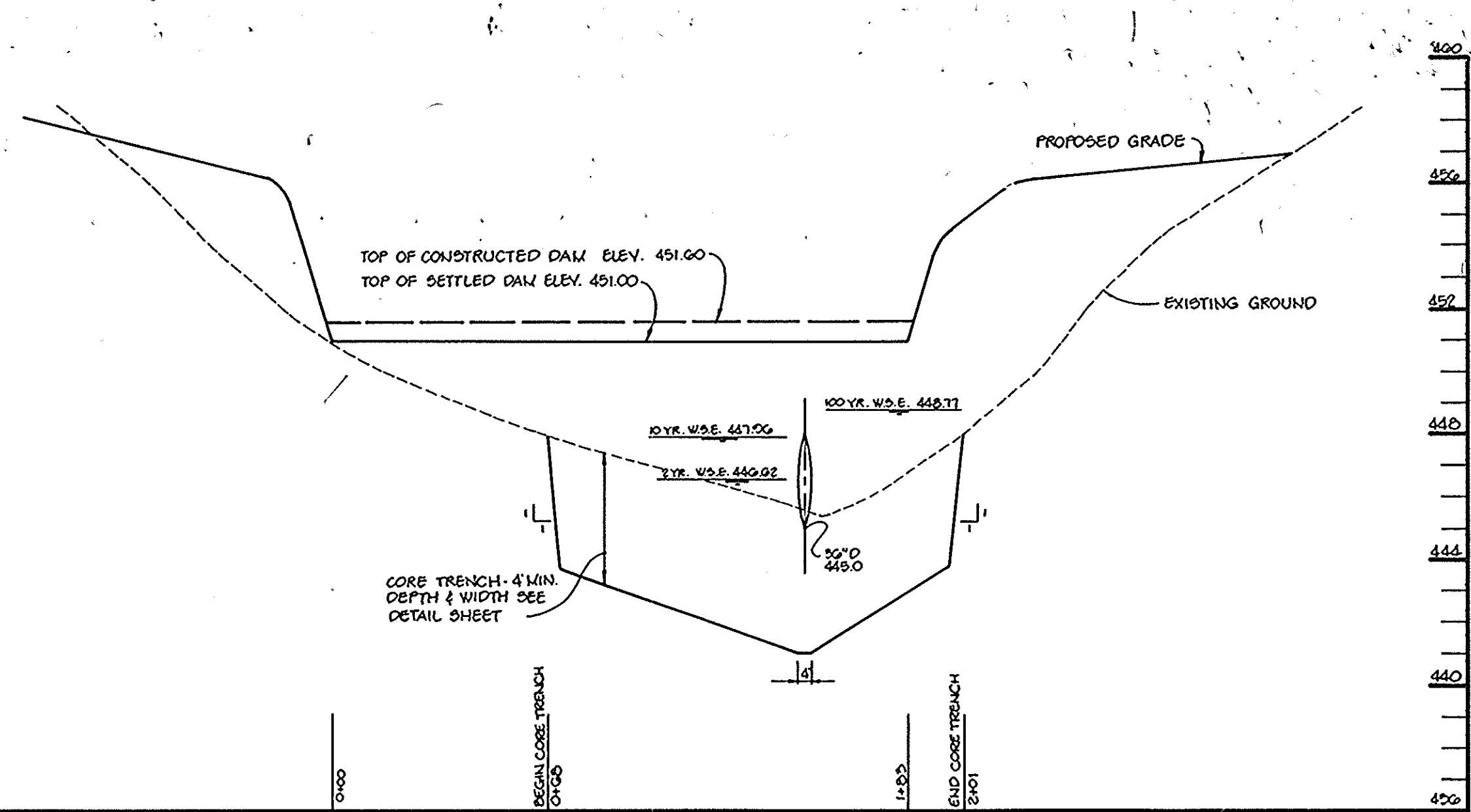
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16152, Expiration Date: 8-25-16

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
JES

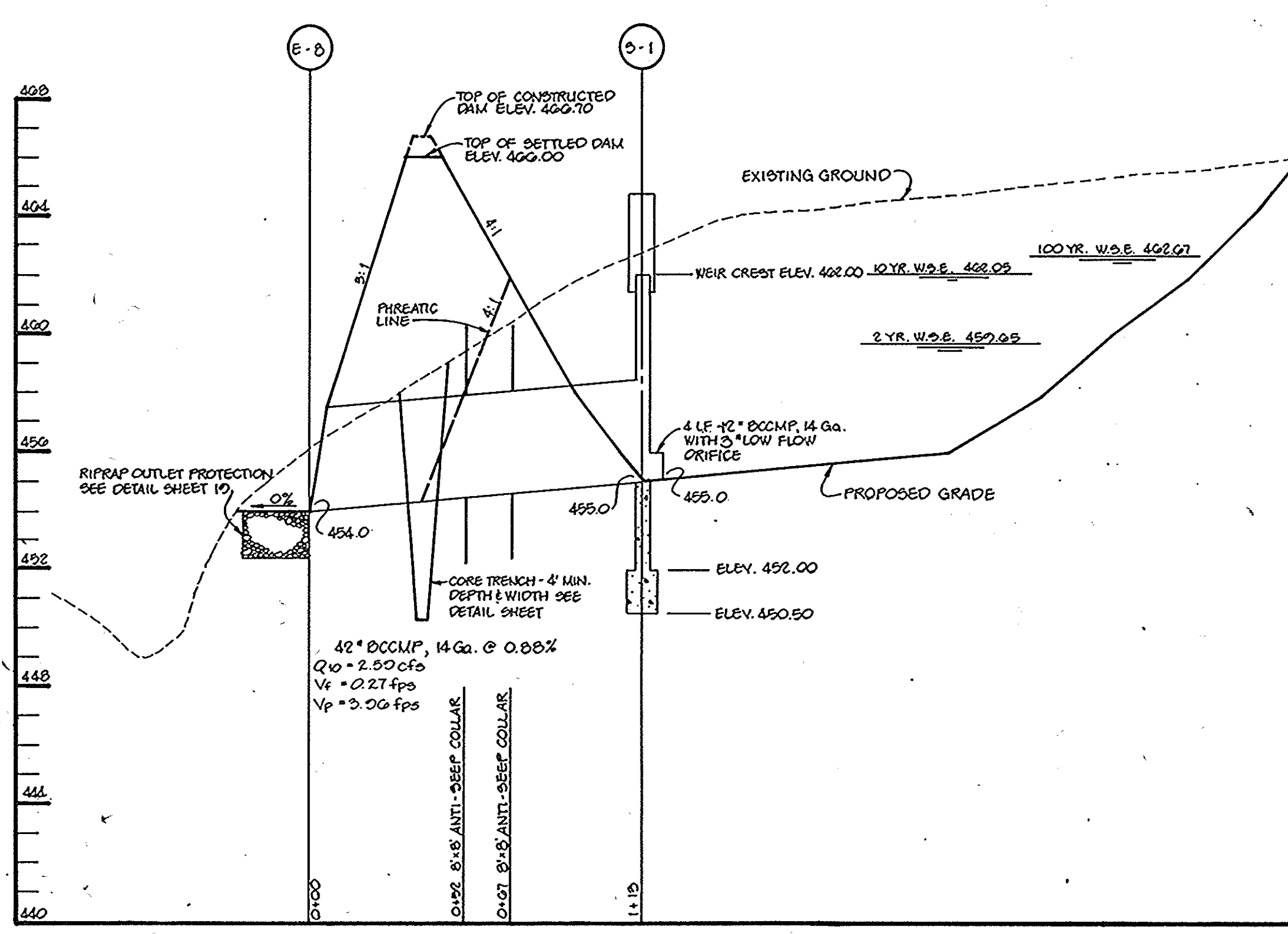
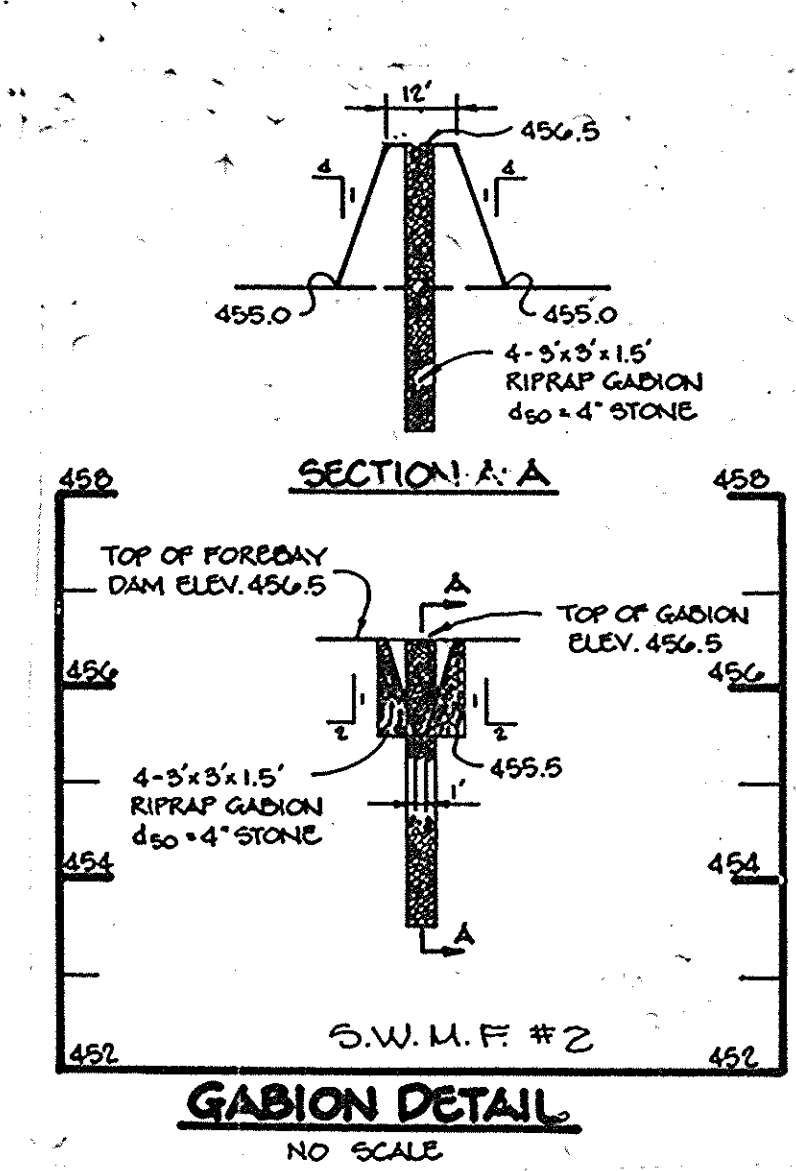
AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boydland per JFM 8/25/92	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
James P. Smith 8/27/92	DATE
Director	DATE
Edmund Helmuth 8/27/92	DATE
Chief, Division of Community Planning and Land Development	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
James P. Smith 8/27/92	DATE
Director	DATE
Arthur E. Muegge 8-27-92	DATE
Chief, Bureau of Engineering	DATE
4-30-15	1 REVISED SHEET TOTAL & SCHOOL NAME
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUMENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN DRAINAGE AREA MAP	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
DATE 8-12-92	DESIGNED BY : DRF
DATE 8-12-92	DRAWN BY : CB
DATE AUGUST 12, 1992	PROJECT NO : 80209
SCALE : AS SHOWN	DATE : AUGUST 12, 1992
ARTHUR E. MUEGGE #43707	DRAWING NO. C.21 OF 20



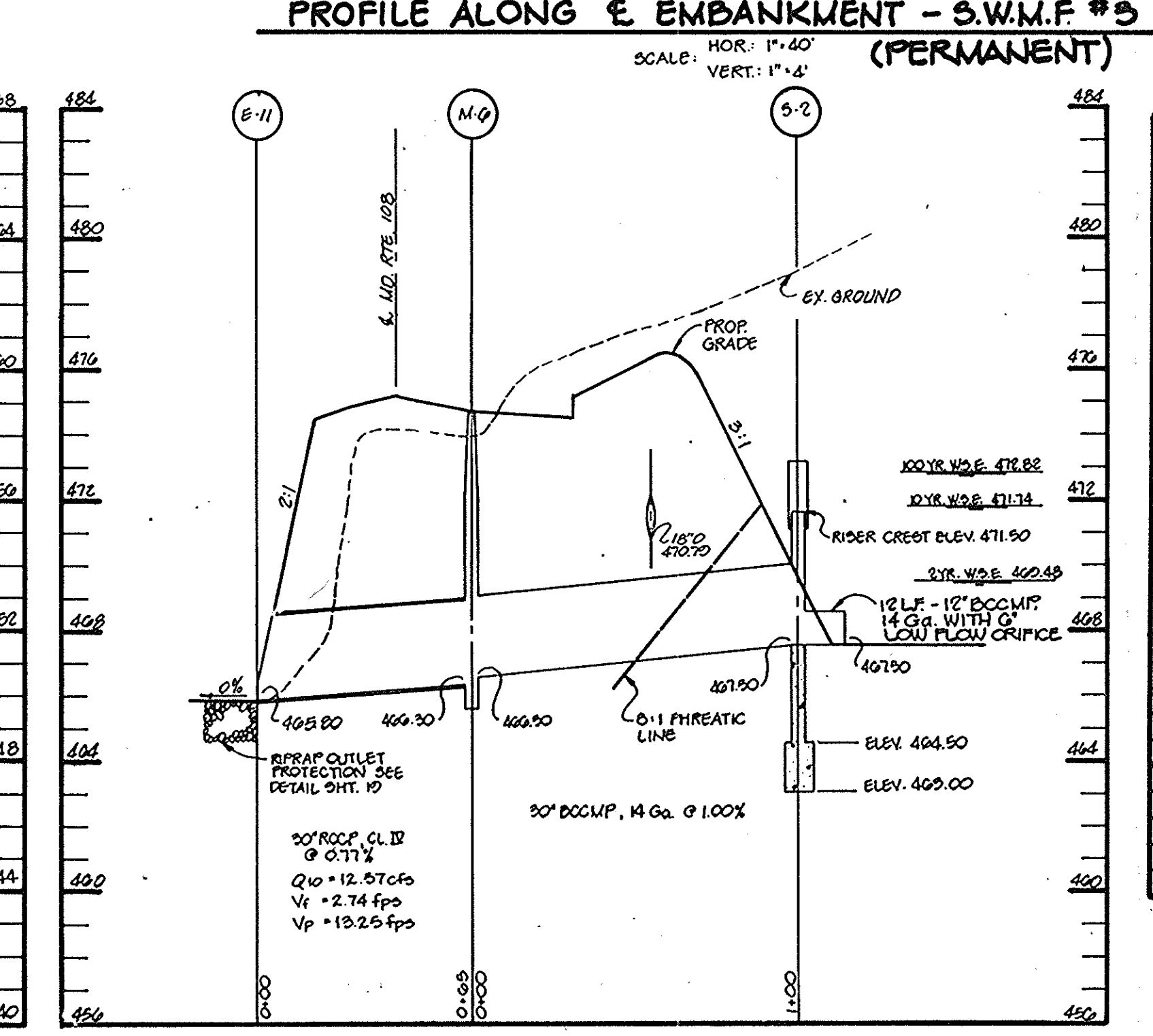
PROFILE THROUGH PRINCIPAL SPILLWAY - S.W.M.F. #3 (PERMANENT)
 SCALE: HOR: 1"=40'
 VERT: 1"=4'



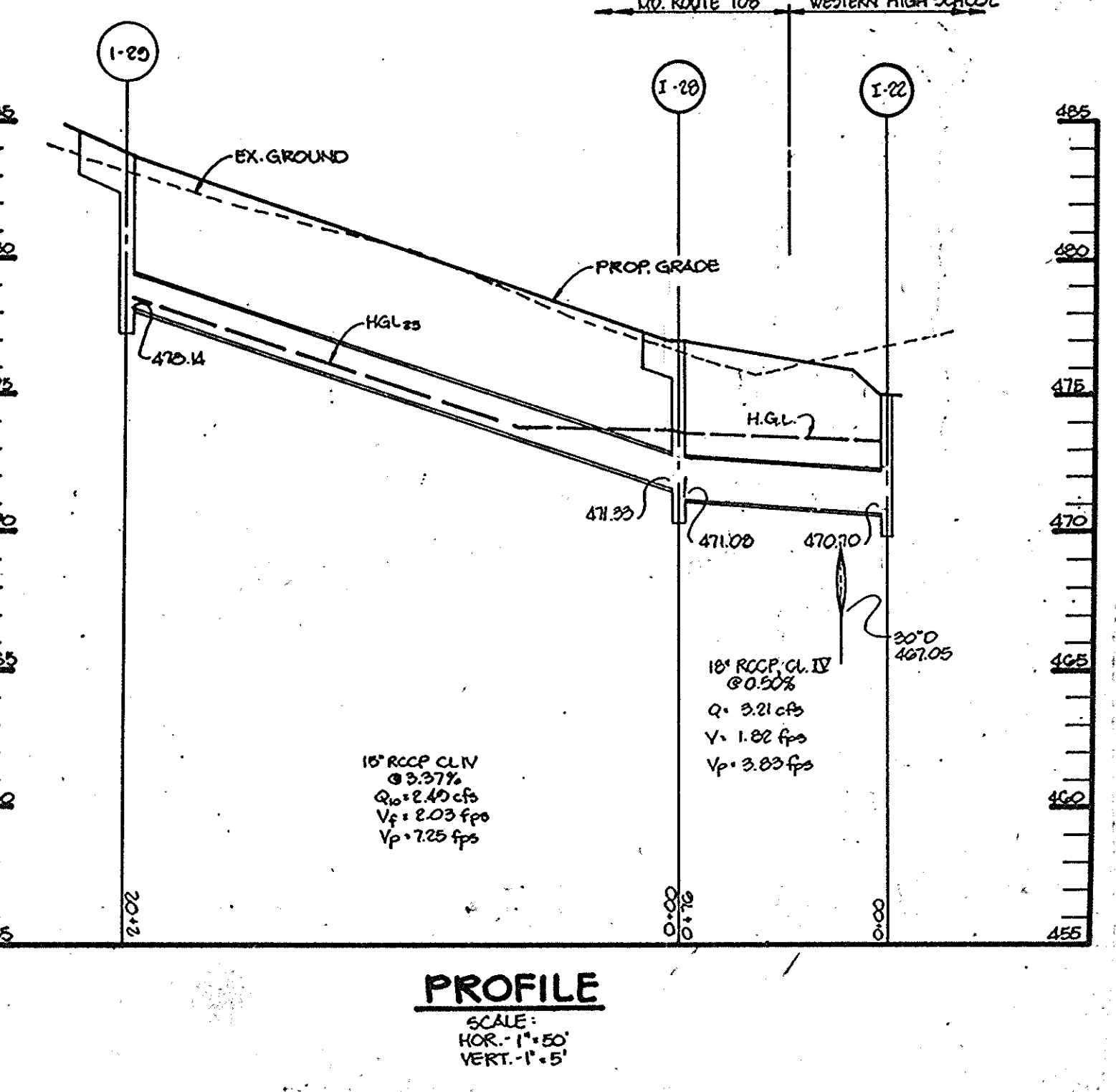
PROFILE ALONG E EMBANKMENT - S.W.M.F. #3 (PERMANENT)
 SCALE: HOR: 1"=40'
 VERT: 1"=4'



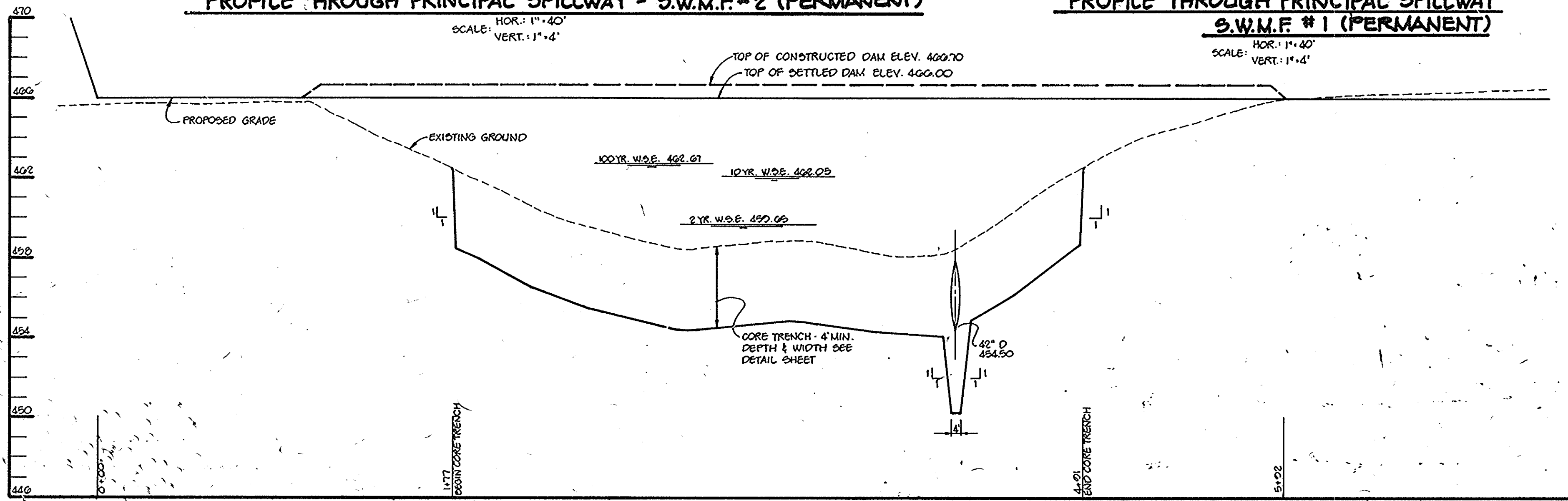
PROFILE THROUGH PRINCIPAL SPILLWAY - S.W.M.F. #2 (PERMANENT)
 SCALE: HOR: 1"=40'
 VERT: 1"=4'



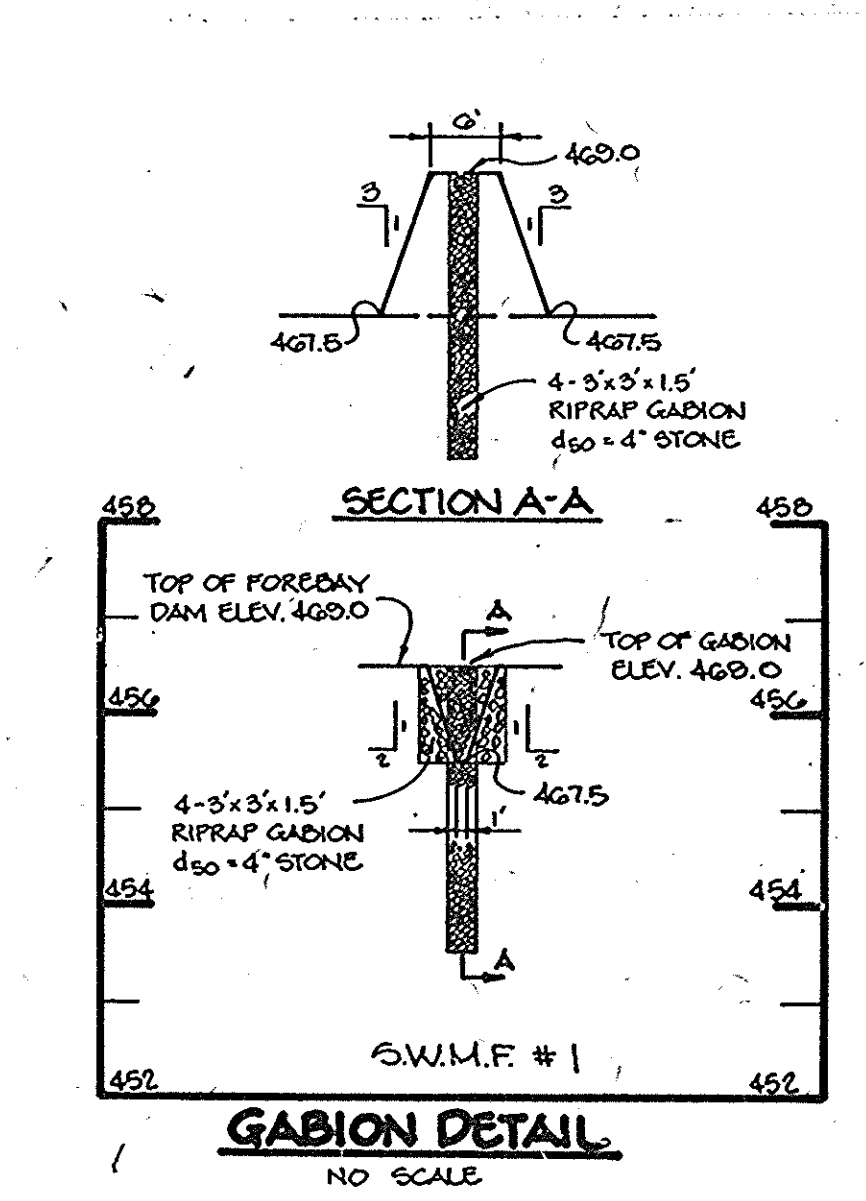
PROFILE THROUGH PRINCIPAL SPILLWAY S.W.M.F. #1 (PERMANENT)
 SCALE: HOR: 1"=40'
 VERT: 1"=4'



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



PROFILE ALONG E EMBANKMENT - S.W.M.F. #2 (PERMANENT)
 SCALE: HOR: 1"=40'
 VERT: 1"=4'



GABION DETAIL
 NO SCALE



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16156 Expiration Date 8-28-96

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: July 21, 1992
 SLS

AS BUILT CERTIFICATE
 ARTHUR E. MUEGGE #8707 DATE

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 WILL 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.

Cathleen Conley Young 8/18/92
 DEVELOPER DATE

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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Arthur E. Muegge 8-18-92
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Delaney 8/18/92
 I/S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Richard W. Ziehm 8/18/92
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Boudard per JGM 8/25/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James M. Delaney 8/27/92
 DIRECTOR DATE

Anna J. Helms 8/27/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James M. Delaney 8/27/92
 DIRECTOR DATE

Arthur E. Muegge 8-27-92
 CHIEF, BUREAU OF ENGINEERING DATE

4-30-15	1	REVISED SHEET TOTAL & SCHOOL NAME
DATE	NO.	REVISION
OWNER	DEVELOPER	
HOWARD RESEARCH AND DEVELOPMENT CORP.	BOARD OF EDUCATION OF HOWARD COUNTY	
10275 LITTLE PATUXENT PARKWAY	10200 ROUTE 100	
COLUMBIA, MARYLAND 21044	ELLICOTT CITY, MARYLAND 20405	

PROJECT: RIVER HILL WESTERN HIGH SCHOOL

AREA: TAX MAP 36 PART OF PARCELS VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: REVISED SITE DEVELOPMENT PLAN S.W.M. PROFILES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045
 301-997-6900 • FAX: 301-997-9282

DATE: 8-12-92
 DESIGNED BY: CJR

DRAWN BY: MAD
 PROJECT NO: 80200

DATE: AUGUST 12 1992
 SCALE: AS SHOWN
 DRAWING NO. 022 OF 30

SDP-92-92



BOARD OF EDUCATION OF HOWARD COUNTY
LIBER 396, FOLIO 287
ZONED R

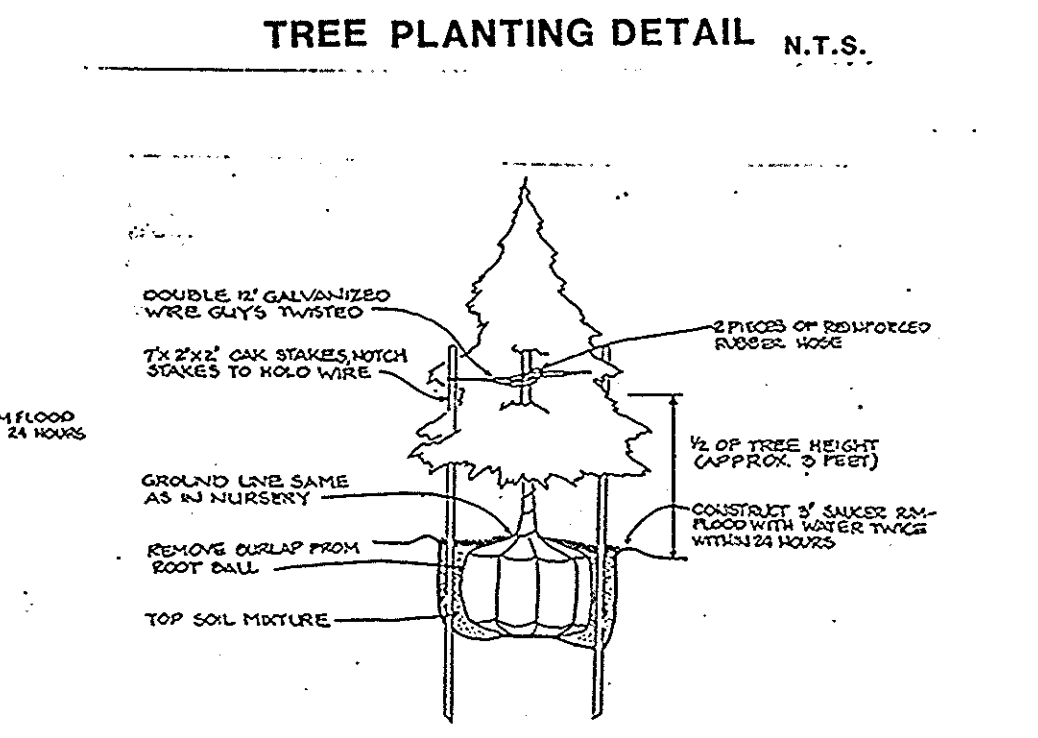
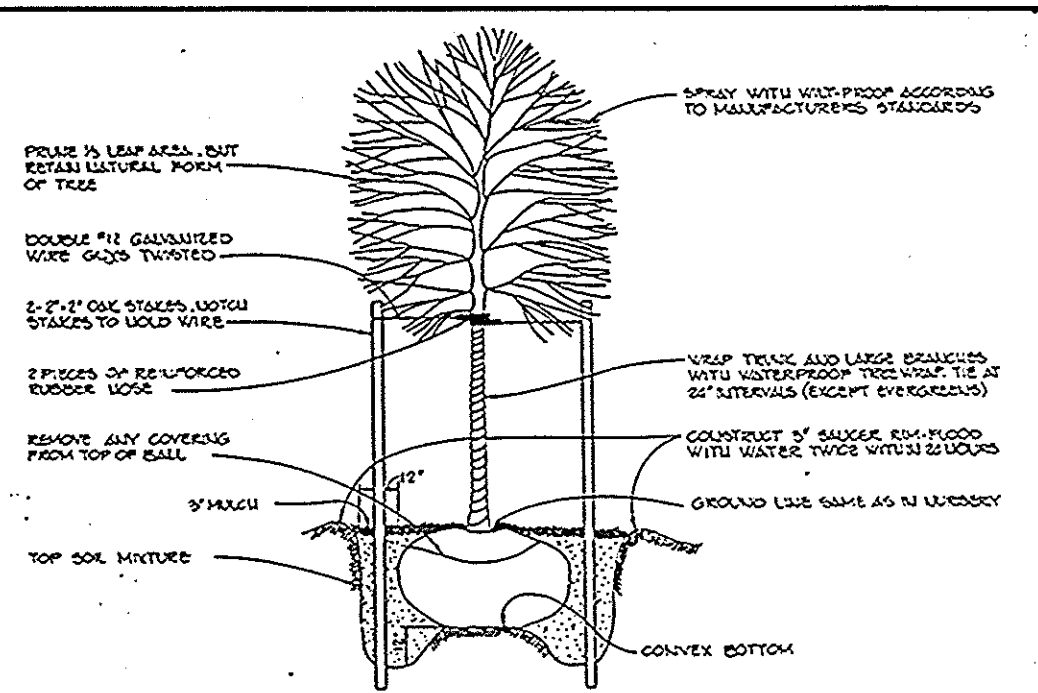
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE July 21, 1992
JKS

PLAN
SCALE: 1"=40'

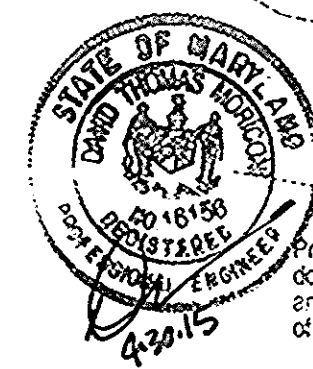


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16152, Expiration Date: 8-28-16

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boyal <i>JM Boyal</i>	8/20/92
JOINT HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. Bell</i>	8/27/92
Director	DATE
<i>Bluma Halomath</i>	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James J. Shaw</i>	8/27/92
DIRECTOR	DATE
<i>James J. Shaw</i>	8/27/92
CHIEF, BUREAU OF ENGINEERING	DATE
4-30-15 REVISED SHEET TOTAL & SCHOOL NAME	
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN LANDSCAPE PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
	S-92-16, WP-92-151 F-92-03, PD-276 DESIGNED BY : DD DRAWN BY : ZK PROJECT NO : 80209 DATE : AUGUST 12 1992 SCALE : AS SHOWN DRAWING NO. C24 OF 39
	MELANIE MOSER #551



HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Lic. No. 16150, Expiration Date: 6-28-16

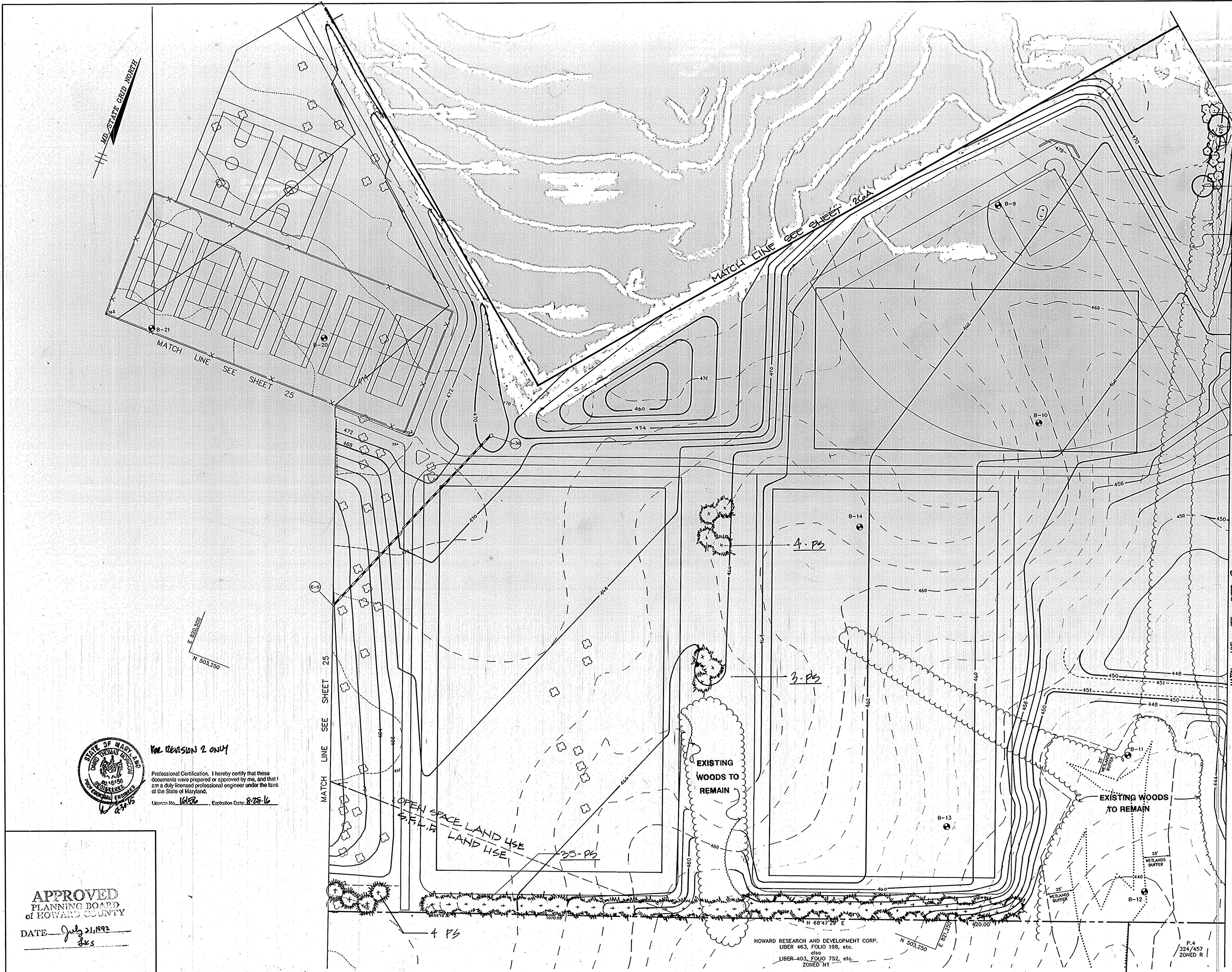
APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
JLS

HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT

PLAN
SCALE: 1"=40'

HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT

AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. Bordner per JSM</i>	8/25/92
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Frank Smith</i>	8/27/92
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>Thomas Klemm</i>	8/27/92
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James P. ...</i>	8/27/92
CHIEF, BUREAU OF ENGINEERING.	
4-20-15	REVISED SHEET TITLE & SHEET NAME
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN LANDSCAPE PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
8-12-92	S-92-16, WP-92-151 P-92-07, PB-270
DESIGNED BY : OD	
DRAWN BY : ZK	
PROJECT NO : 80209	
DATE : AUGUST 12, 1992	
SCALE : AS SHOWN	
DRAWING NO. C 25 OF 30	



3-VR
1-CC
-10-RT
1-CC

EXISTING WOODS TO REMAIN

AS BUILT CERTIFICATE

ARTHUR E. MUEGGE #8707 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. Boyd *Joyce M. Boyd* 8/25/92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James S. Rector 8/27/92
DIRECTOR DATE

Elmina Helmuth 9/17/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James P. Shaw 8/27/92
DIRECTOR DATE

James P. Shaw 8/27/92
CHIEF, BUREAU OF ENGINEERING DATE

4-15 2 (REVISED SHEET TOTAL & SCHOOL NAME)

1-19-04 1 REVISE R. TO MATCH LINE

DATE NO. REVISION

OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043

PROJECT **RIVER HILL WESTERN HIGH SCHOOL**

AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

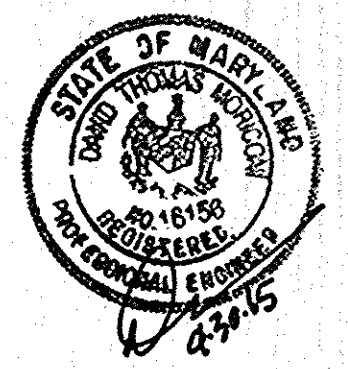
TITLE **REVISION SITE DEVELOPMENT PLAN LANDSCAPE PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Md 21045
410-997-8900 FAX: 410-997-9282

DATE: 8-12-92	S-92-16; WP-92-151 F-95-07; PB-270
DESIGNED BY: O.D.	
DRAWN BY: ZK	
PROJECT NO: 80209	
DATE: AUGUST 12 1992	
SCALE: AS SHOWN	
DRAWING NO. 026 OF 20	



Melanie Moser
MELANIE MOSER #551



FOR REVISION 2 ONLY
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16162 Expiration Date: 8-25-16

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
AS

HOWARD RESEARCH AND DEVELOPMENT CORP.
LIBER 463, FOLIO 198, etc.
also
LIBER 403, FOLIO 752, etc.
ZONED NT

COLUMBIA
CEMETERY SITE
SECTION 1, AREA 2
LOT 3
PLAT No. 11185+11186

BOARD OF EDUCATION
OF HOWARD COUNTY
WHH 396/287

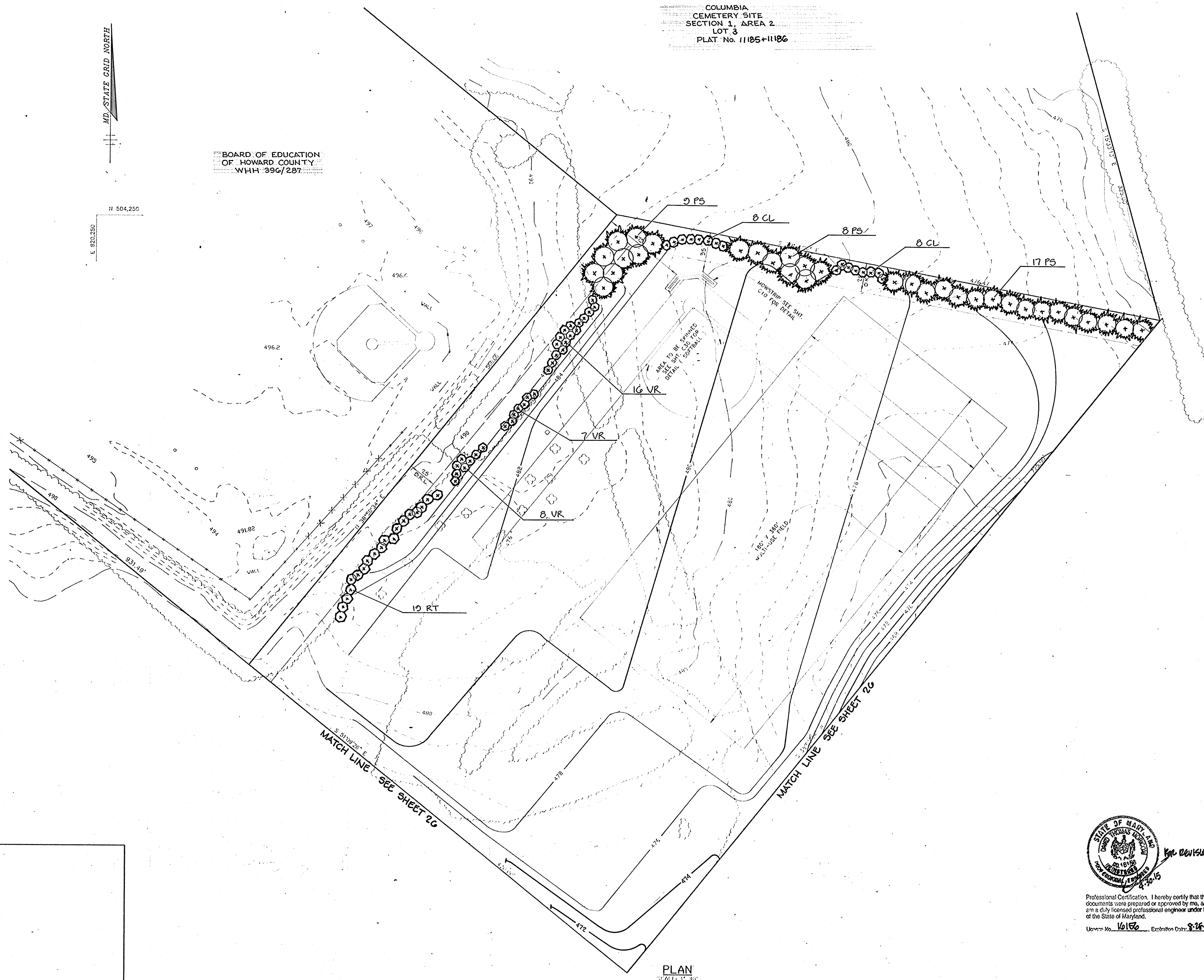
MD STATE GRID NORTH

N 504,250

E 820,250

N 504,250

E 821,250



AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James Scott</i>	4/29/94 DATE
<i>Qina Jaramony</i>	4/27/94 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James M. Lewis</i>	4/21/94 DATE
<i>Charles E. Rapson</i>	4/20/94 DATE
4-2015 1 REVISION SHEET TOTAL & SHEET NAME	
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 12275 LITTLE PATENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043
PROJECT OVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE LANDSCAPE PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
DATE 1-24-94	PLATS F-94-46 & F-94-47 FDP PHASES 108-A-1, 223 & 218-A
DESIGNED BY: WCW	DRAWN BY: WCW
PROJECT NO: 80209	DATE:
SCALE: AS SHOWN	DRAWING NO. 26-A OF 30
ARTHUR E. MUEGGE #8707	



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156 Expiration Date: 8-26-16

PLANT LIST (INCLUDES ALL SHEETS)

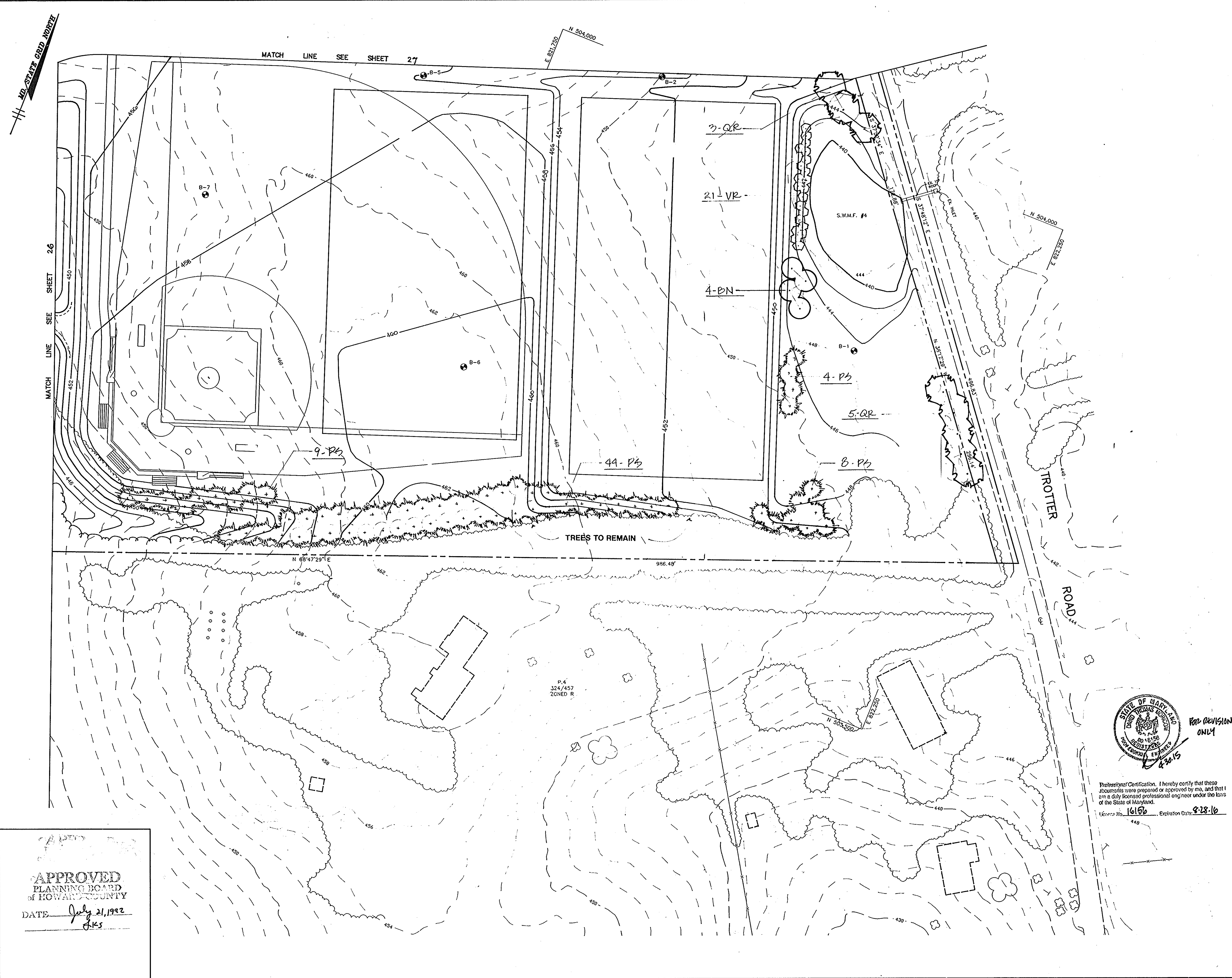
QTY	KEY	NAME	SIZE	REMARKS	QTY	KEY	NAME	SIZE	REMARKS
48	AR	ACER RUBRUM 'OCTOBER GLORY' October Glory Red Maple	2 1/2" - 3" Cal. 12' - 14' Ht.	8 & 8 Full Crown	29	RT	RHUS TYPHINA Staghorn Sumac	30" - 36" Ht.	8 & 8 or Cont.
22	AS	ACER SACCHARIN 'GREEN MOUNTAIN' Green Mountain Sugar Maple	2 1/2" - 3" Cal. 12' - 14' Ht.	8 & 8 Full Crown	6	TC	TSUGA CANADENSIS Canadian Hemlock	8' - 10' Ht.	8 & 8 Full/Natural
4	BN	BETULA NIGRA 'HERITAGE' Heritage River Birch	1" - 1 1/2" Cal. 8' - 10' Ht.	8 & 8 Full Crown	81	VR	VIBURNUM RHYTIDOPHYLLUM 'WILLOWOOD' Willowood Viburnum	30" - 36" Ht.	8 & 8 or Cont.
7	CC	CRATAEGUS CRUGALLI VAR. INERMIS Thornless Cockspur Hawthorn	1" - 1 1/2" Cal. 8' - 10' Ht.	8 & 8 Full Crown	31	ZS	ZELKOVA SERRATA Zelkova	2 1/2" - 3" Cal. 12" - 14" Ht.	8 & 8 Full Crown
35	CL	X CUPRESSOPARIS LEYLANDII Leyland Cypress	8' - 10' Ht.	8 & 8	97	IC	ILEX CORNUTA 'ROTUNDA' Dwarf Chinese Holly	5 Gallon 18" Ht.	Cont. 3' O.C.
15	PC	PIRUS CALLERYANA 'WHITEHOUSE' Whitehouse Callery Pear	1 - 1 1/2" Cal. 8' - 10' Ht.	8 & 8 Full Crown	14	GT	GLEDITSIA TRIACANTHOS Inermis 'Shademaster' Thornless Honey Locust	2 1/2" - 3" Full Crown	8 & 8 Full Crown
332	PS	PINUS STROBUS White Pine	8' - 10' Ht.	8 & 8 Full/Natural	10	IA	ILEX X ATENUATA 'FOSTERI' Foster's Holly	5' - 6' Ht.	8 & 8 Full Crown
29	OR	QUERCUS RUBRA Red Oak	2 1/2" - 3" Cal. 12' - 14' Ht.	8 & 8	811	JH	JUNIPERUS HORIZONTALIS 'PLUMOSA' Compact Andorra Juniper	18" Spread	Cont. 3 O.C.
					5,185 sq. ft.	TURFGRASS SOD		N.A.	SEE SPECS



AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
Joyce M. Boyd <i>Joyce M. Boyd</i>	8/25/92
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James S. Smith</i>	8/27/92
DIRECTOR	DATE
<i>Emma Hornath</i>	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James M. ...</i>	8/27/92
DIRECTOR	DATE
<i>...</i>	8/27/92
CHIEF, BUREAU OF ENGINEERING	DATE
4.3.15 2 REVISED SHEET TOTAL & SHEET NAME	
1-13-04 1 REVISE R 2 GRADING, REVISE PLANTINGS LOCAL	DATE
DATE NO.	REVISION
OWNER	DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISED SITE DEVELOPMENT PLAN LANDSCAPE PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX: 410-997-9282	
DATE 8-12-92	S-92-16; WP-92-151 P-92-01; PB-276
DESIGNED BY: DD	DRAWN BY: ZK
PROJECT NO: 80209	DATE: AUGUST 12 1992
SCALE: AS SHOWN	DRAWING NO. 027 OF 30
MELANIE MOSER #551	

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
J.K.

STATE OF MARYLAND
LAND SURVEYING DIVISION
PROFESSIONAL ENGINEER
1616
EXPIRES 8-28-16
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

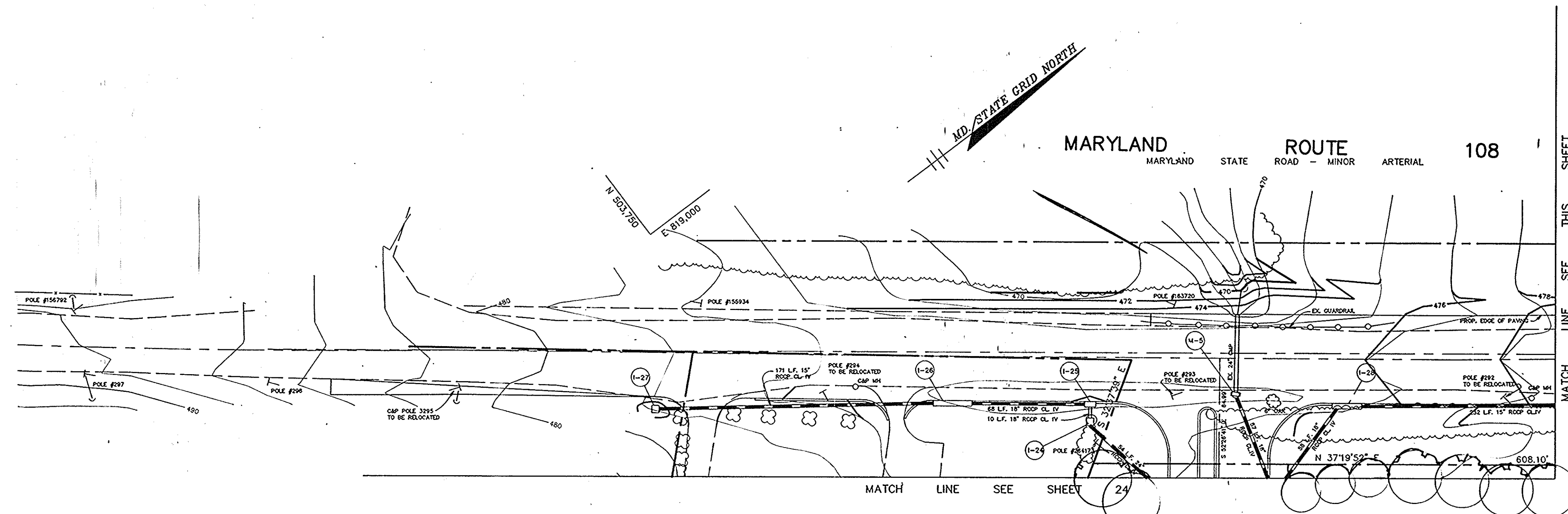


APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE July 21, 1992
JLS

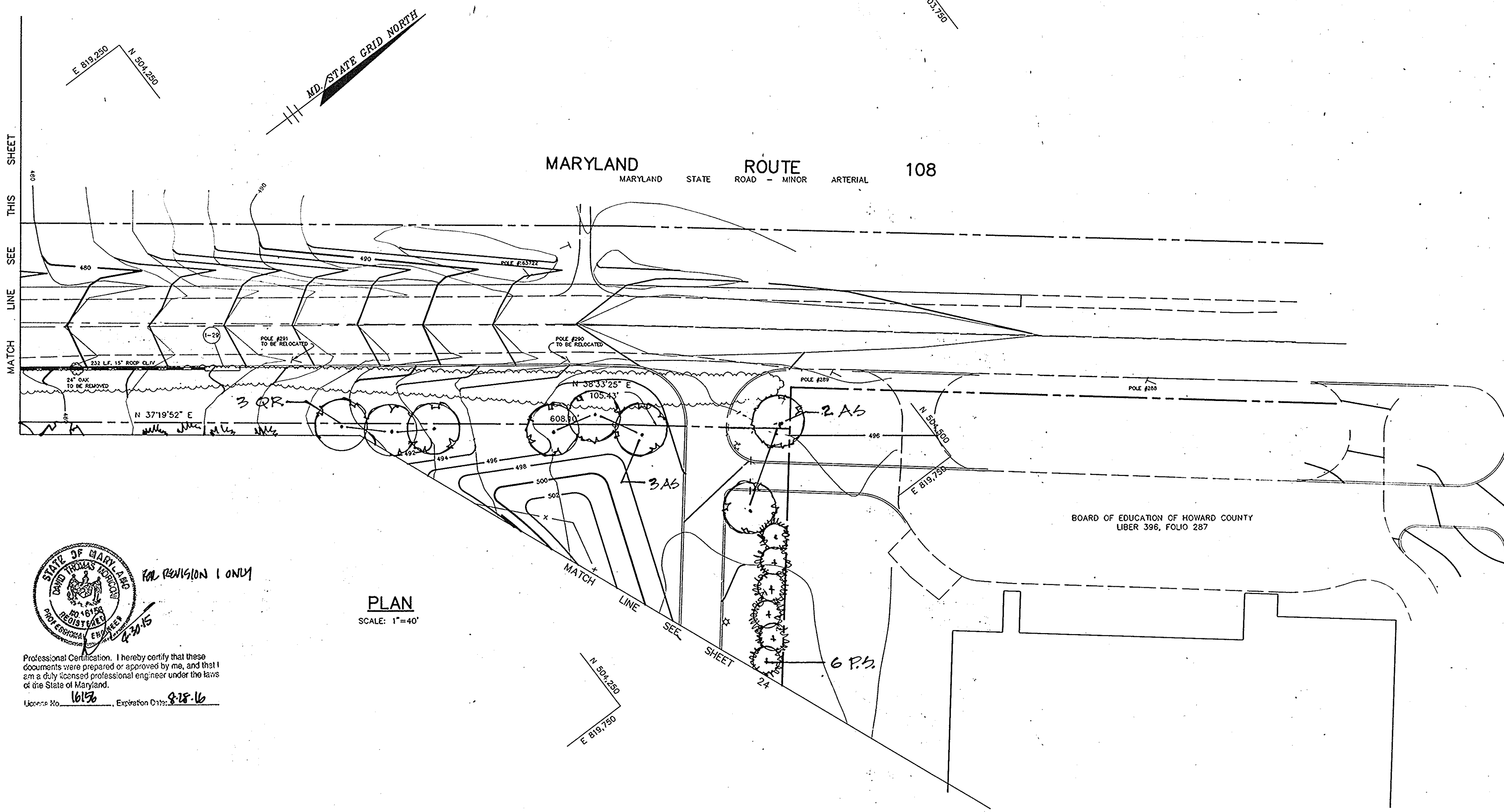
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16166 Expiration Date: 8-28-10



AS BUILT CERTIFICATE	
ARTHUR E. MUEGGE #8707	DATE
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<u>Joyce M. Boyd</u> per <u>John</u> 8/25/92	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<u>David Smith</u> 8/27/92	DATE
<u>Anna J. Helman</u> 8/15/92	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<u>James J. ...</u> 8/27/92	DATE
<u>...</u> 8-27-92	DATE
DATE NO. <u>4-20-15</u>	REVISION <u>1</u>
OWNER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	DEVELOPER BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT <u>RIVER HILL</u> <u>WESTERN HIGH SCHOOL</u>	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE <u>REVISED SITE DEVELOPMENT PLAN</u> <u>LANDSCAPE PLAN</u>	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
8-12-92	8-92-15; WP-92-151 P-95-05, PB-276
DESIGNED BY : <u>DD</u>	
DRAWN BY : <u>ZK</u>	
PROJECT NO : <u>80209</u>	
DATE : <u>AUGUST 12 1992</u>	
SCALE : <u>AS SHOWN</u>	
DRAWING NO. <u>C-20</u> OF <u>20</u>	



PLAN
SCALE: 1"=40'



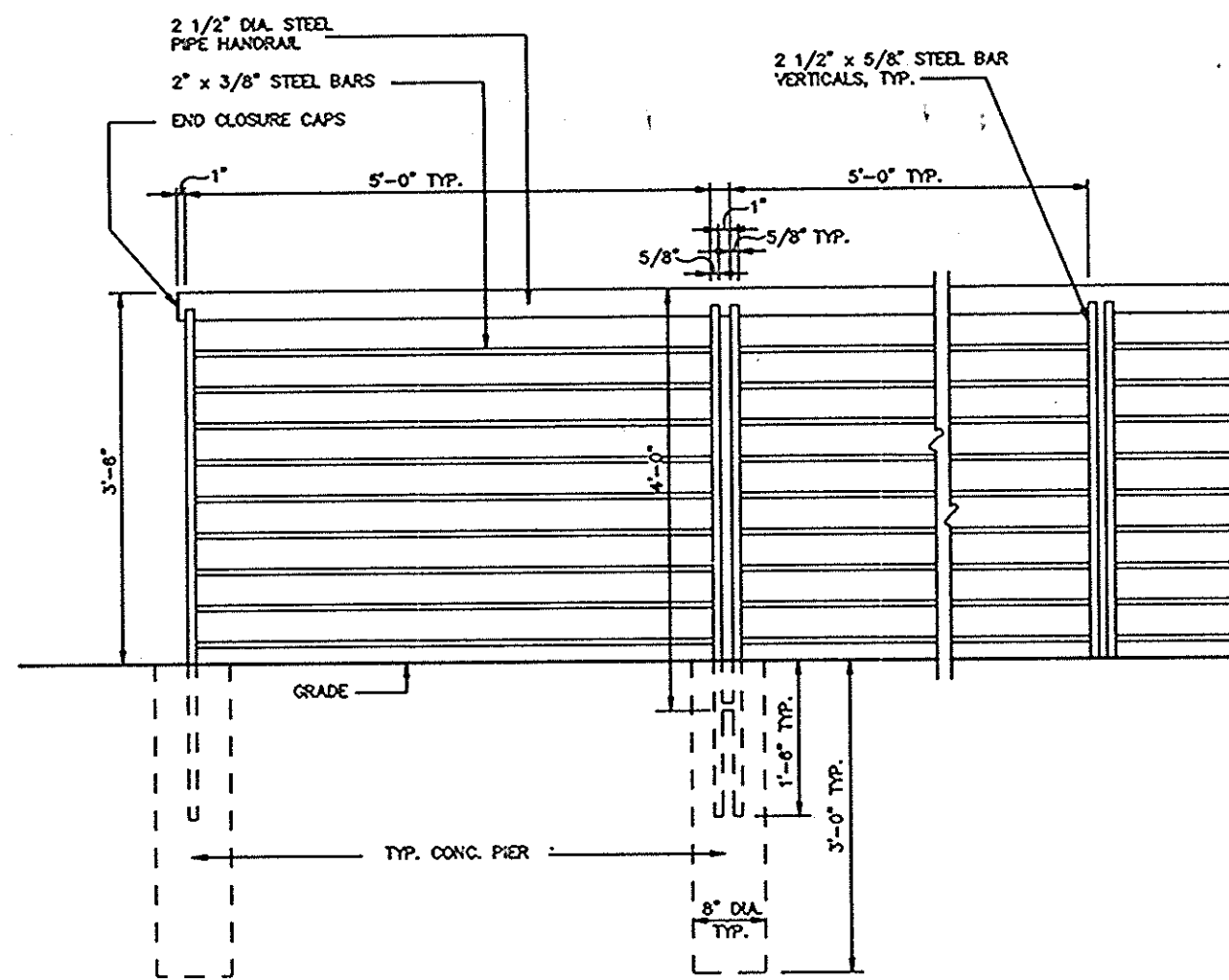
PLAN
SCALE: 1"=40'



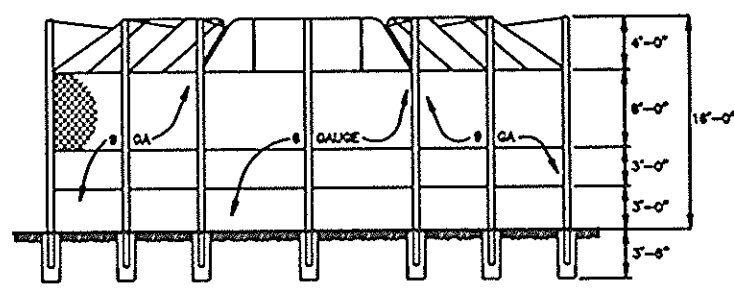
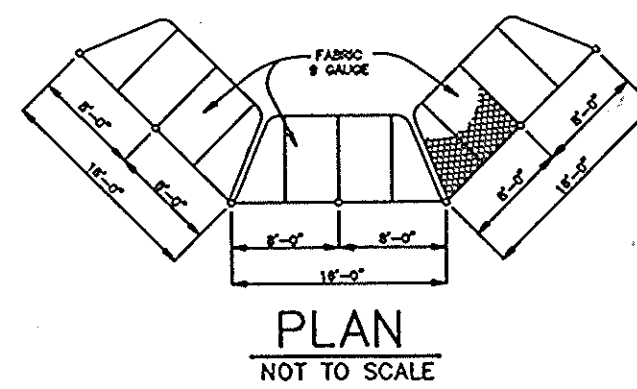
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156, Expiration Date: 8-18-16

APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE July 21, 1992
PKS

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joyce M. Boyd</i> COUNTY HEALTH OFFICER	8/25/92 DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Jessie B. Burt</i> DIRECTOR	8/27/92 DATE
<i>Aminia J. Holmuth</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/27/92 DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James J. Shaw</i> DIRECTOR	8/27/92 DATE
<i>M. S. ...</i> CHIEF, BUREAU OF ENGINEERING	8-27-92 DATE
4/20/15	1 REVISION SUBSET TOTAL & SCHOOL NAME
DATE NO.	REVISION
OWNER HOWARD RESEARCH AND DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	DEVELOPER BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043
PROJECT RIVER HILL WESTERN HIGH SCHOOL	
AREA TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL SECTION 3 AREA 1 LOT 1 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE REVISION SITE DEVELOPMENT PLAN LANDSCAPE PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 8818 Centre Park Drive • Suite 200 • Columbia, Md 21045 410-997-8900 FAX : 410-997-9282	
8-12-92 DATE	F-92-07 P5-278 DESIGNED BY : DD
 MELANIE MOSER #551 LANDSCAPE ARCHITECT	8-22-16 WP-92-191 DRAWN BY : ZK
PROJECT NO : 80209	
DATE : AUGUST 12, 1992	
SCALE : AS SHOWN	
DRAWING NO. C29 OF 30	



ELEVATION OF EXTERIOR GUARDRAIL (TYP.)
NO SCALE



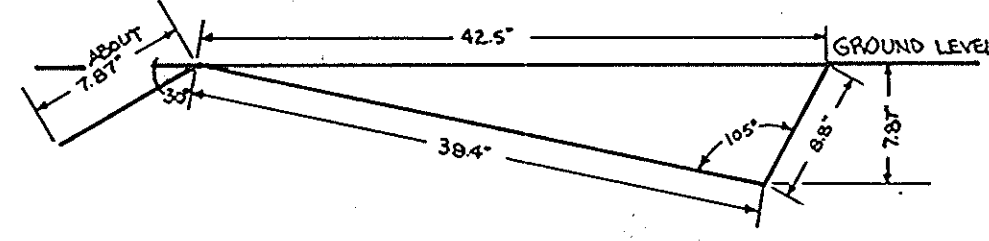
SOFTBALL BACKSTOP
ELEVATION
NOT TO SCALE

BACKSTOP NOTES

1. ALL FRAMING SHALL BE GALVANIZED STEEL.
2. CORNER AND END POSTS - 3" O.D. INTERMEDIATE POSTS - 2 1/2" O.D.
3. OVERHANG FRAME - 1 1/8" O.D. TRUSS ROD - 1/2" DIA.
4. 2" MESH CHAIN LINK FABRIC GAUGE AS NOTED. FABRIC SHALL BE CONNECTED TO FRAME WITH GALVANIZED HOG RINGS AT 14" O.C. ON POSTS AND 24" O.C. ON HORIZONTAL MEMBERS.
5. TENSION WIRE AT BOTTOM OF PANELS - 1/2" DIAMETER.
6. SLOPE TOP OF CONCRETE FOOTING AWAY FROM POST TO DRAIN.
7. ALL FABRIC AND FRAMING SHALL BE PVC PLASTIC RESIN FINISH, BLACK - AS SPECIFIED IN SECTION * CHAIN LINK FENCES AND GATES.

DETAIL-BASEBALL & SOFTBALL BENCHES

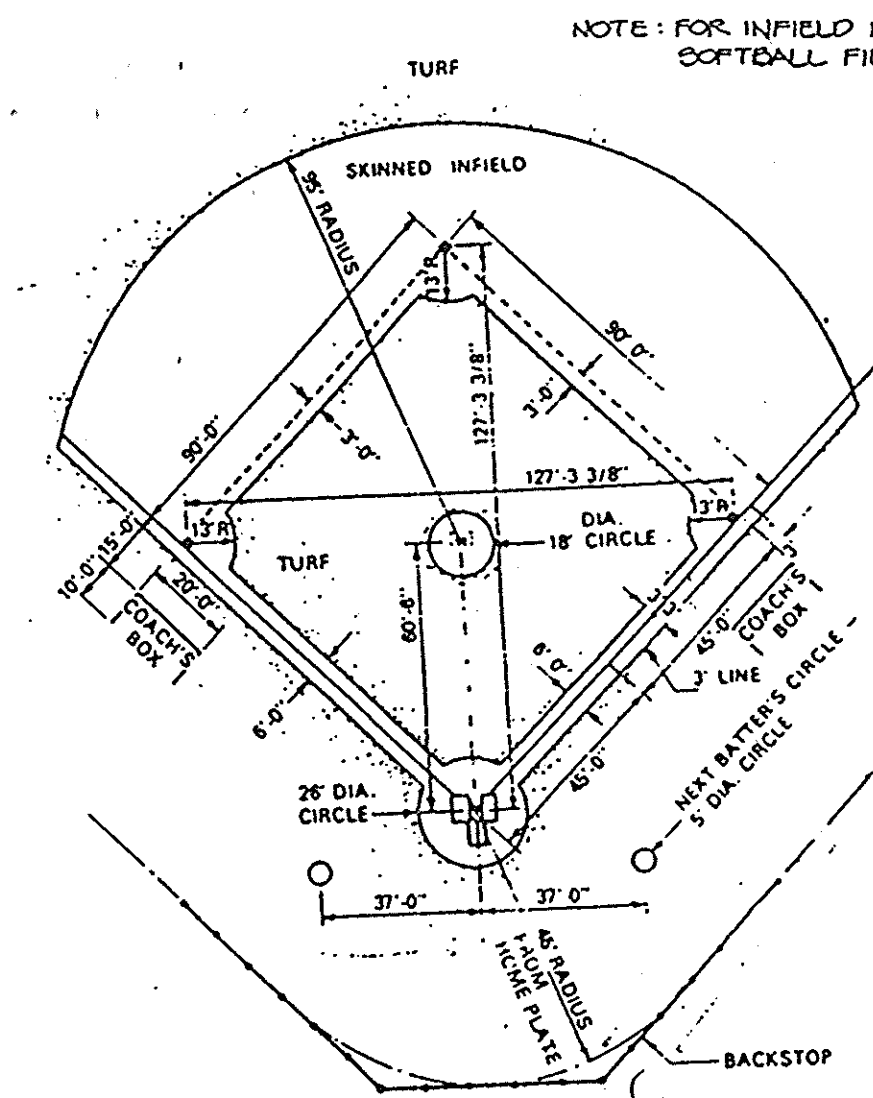
NOT TO SCALE



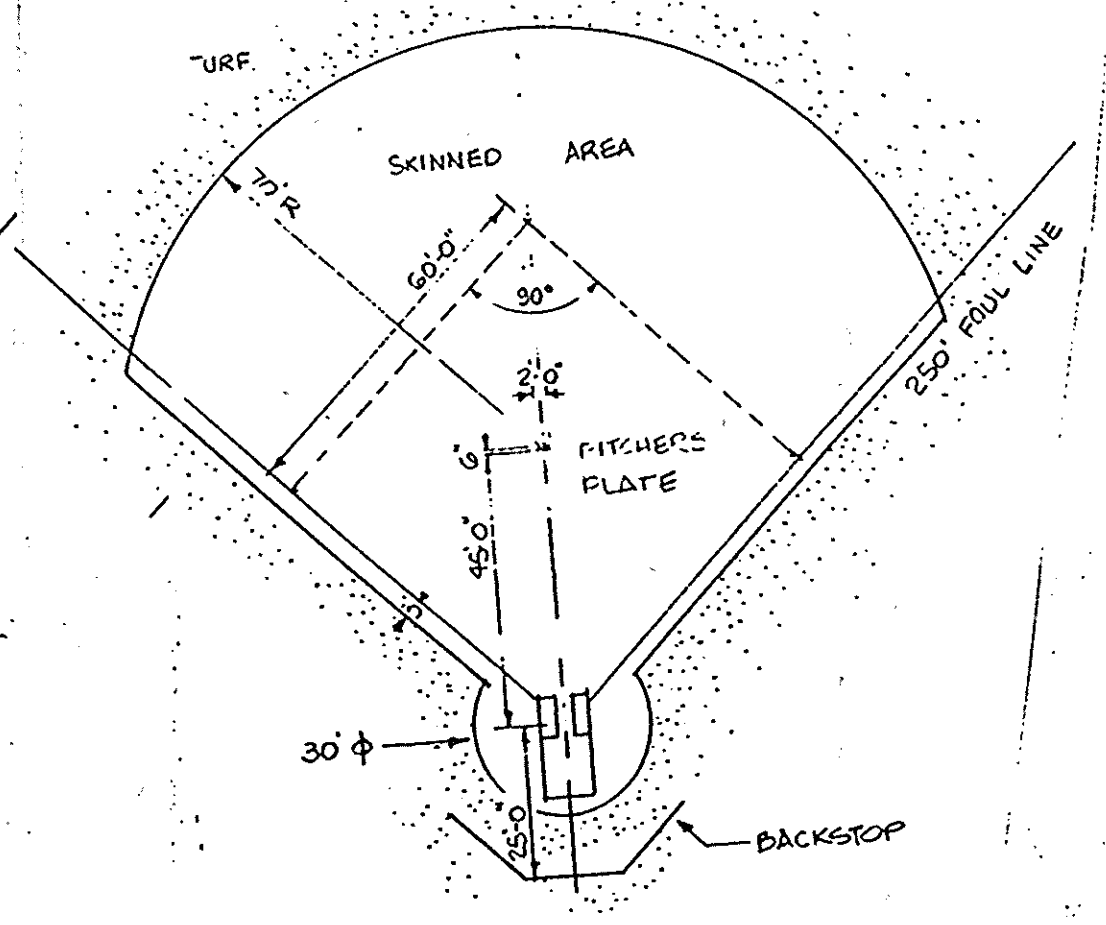
SECTION
NOT TO SCALE

POLE VAULT PLAN
NOT TO SCALE

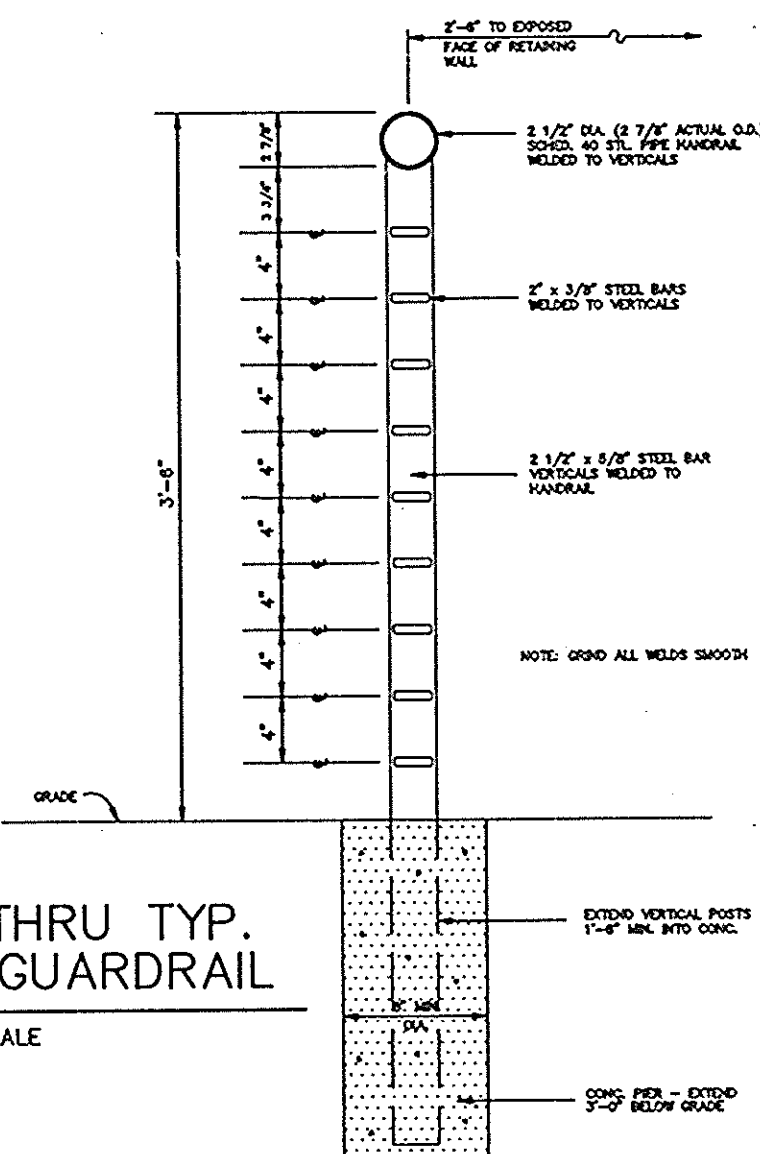
LONG JUMP PLAN
NOT TO SCALE



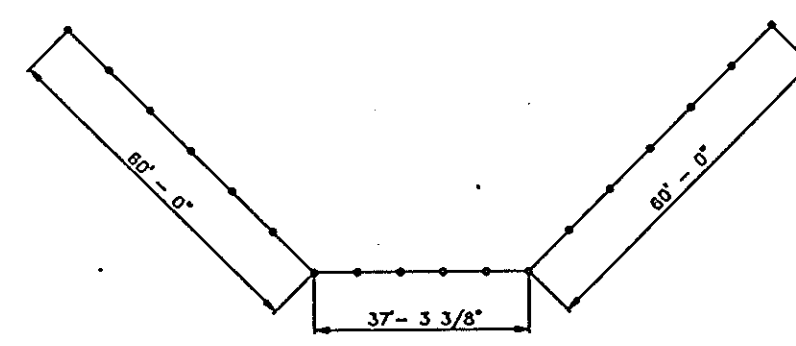
12 BASEBALL PLAN
NO SCALE



4 SOFTBALL PLAN
NO SCALE



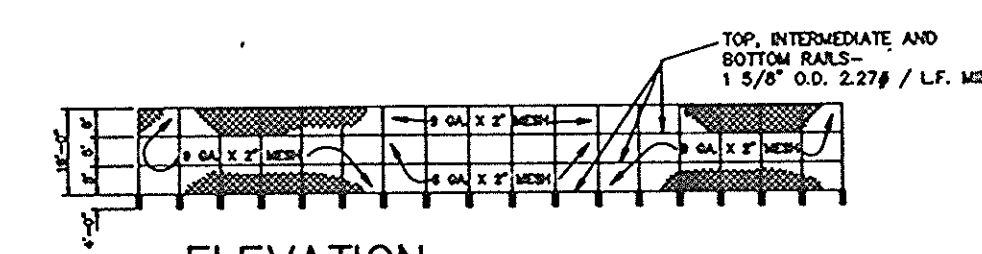
SECTION THRU TYP. EXTERIOR GUARDRAIL
NO SCALE



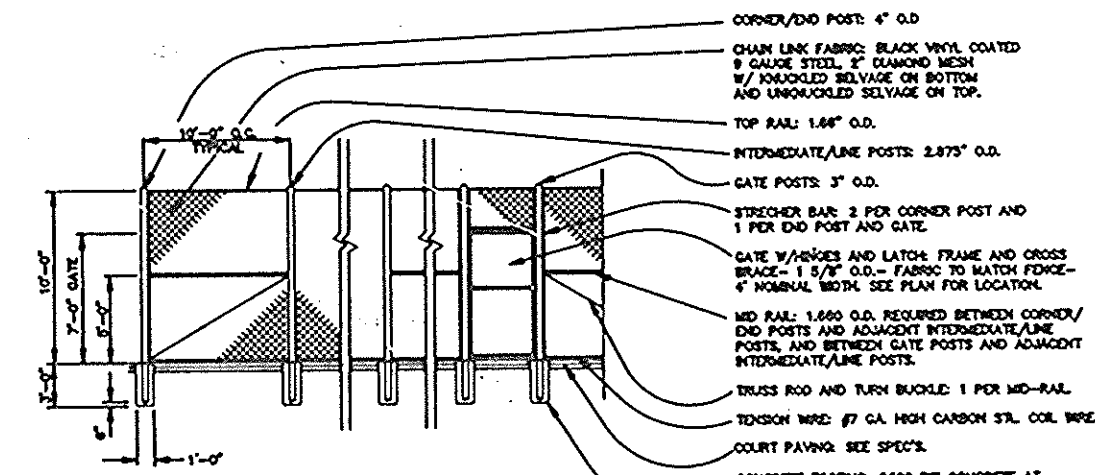
BASEBALL BACKSTOP
NOT TO SCALE

BACKSTOP NOTES

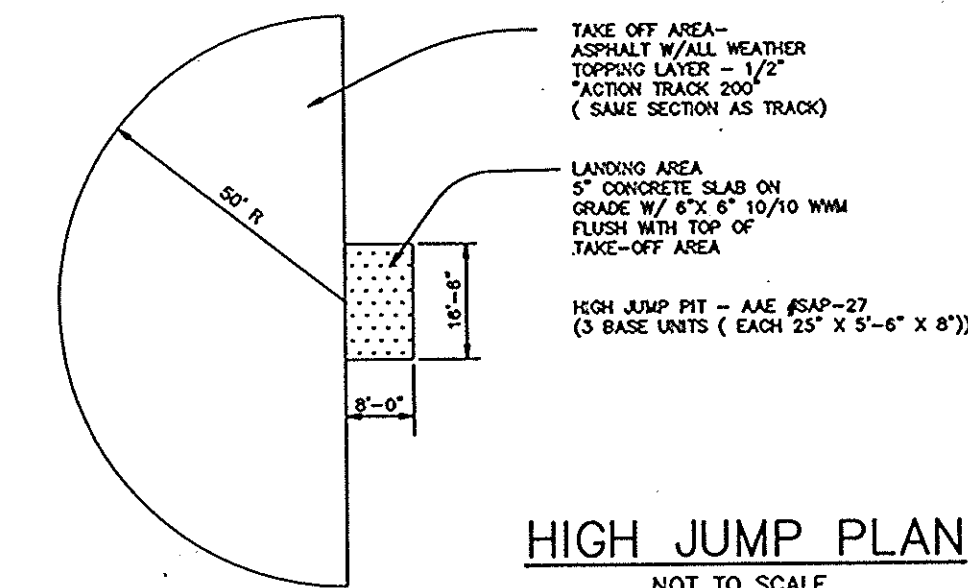
1. ALL FRAMING SHALL BE GALVANIZED STEEL.
2. CORNER AND END POSTS - 3" O.D. INTERMEDIATE POSTS - 2 1/2" O.D.
3. OVERHANG FRAME - 1 1/8" O.D. TRUSS ROD - 1/2" DIA.
4. 2" MESH CHAIN LINK FABRIC GAUGE AS NOTED. FABRIC SHALL BE CONNECTED TO FRAME WITH GALVANIZED HOG RINGS AT 14" O.C. ON POSTS AND 24" O.C. ON HORIZONTAL MEMBERS.
5. TENSION WIRE AT BOTTOM OF PANELS - 1/2" DIAMETER.
6. SLOPE TOP OF CONCRETE FOOTING AWAY FROM POST TO DRAIN.
7. ALL FABRIC AND FRAMING SHALL BE PVC PLASTIC RESIN FINISH, BLACK - AS SPECIFIED IN SECTION * CHAIN LINK FENCES AND GATES.



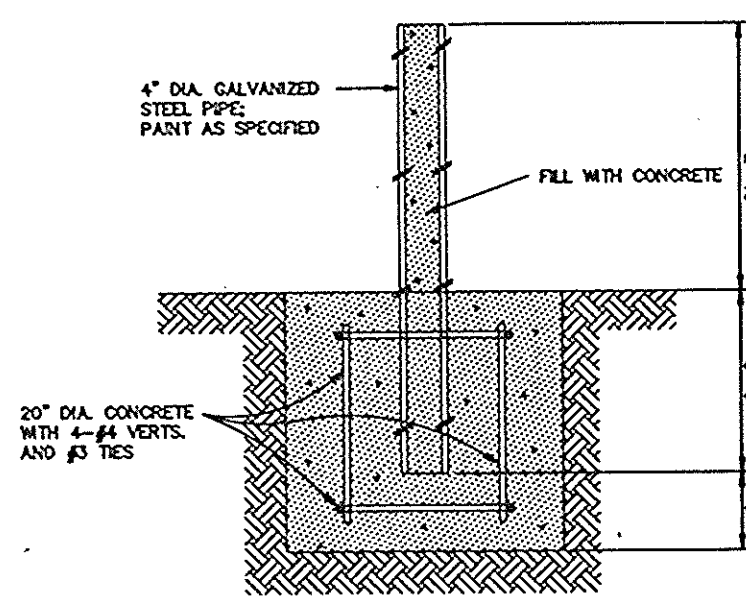
ELEVATION
NOT TO SCALE



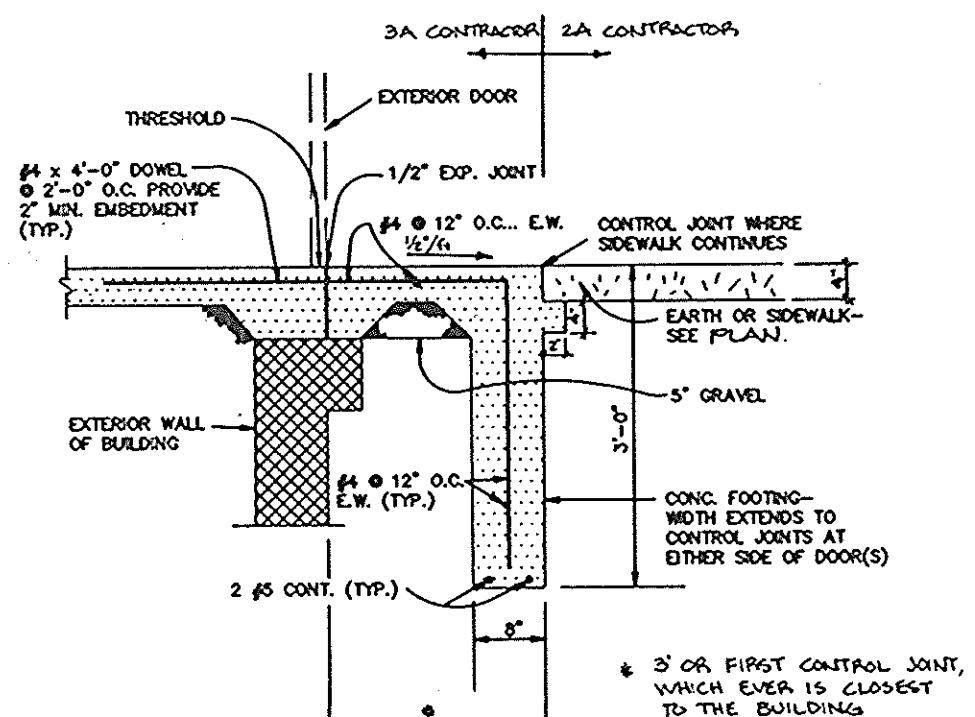
TENNIS & BASKETBALL COURT FENCING AND GATE
NOT TO SCALE



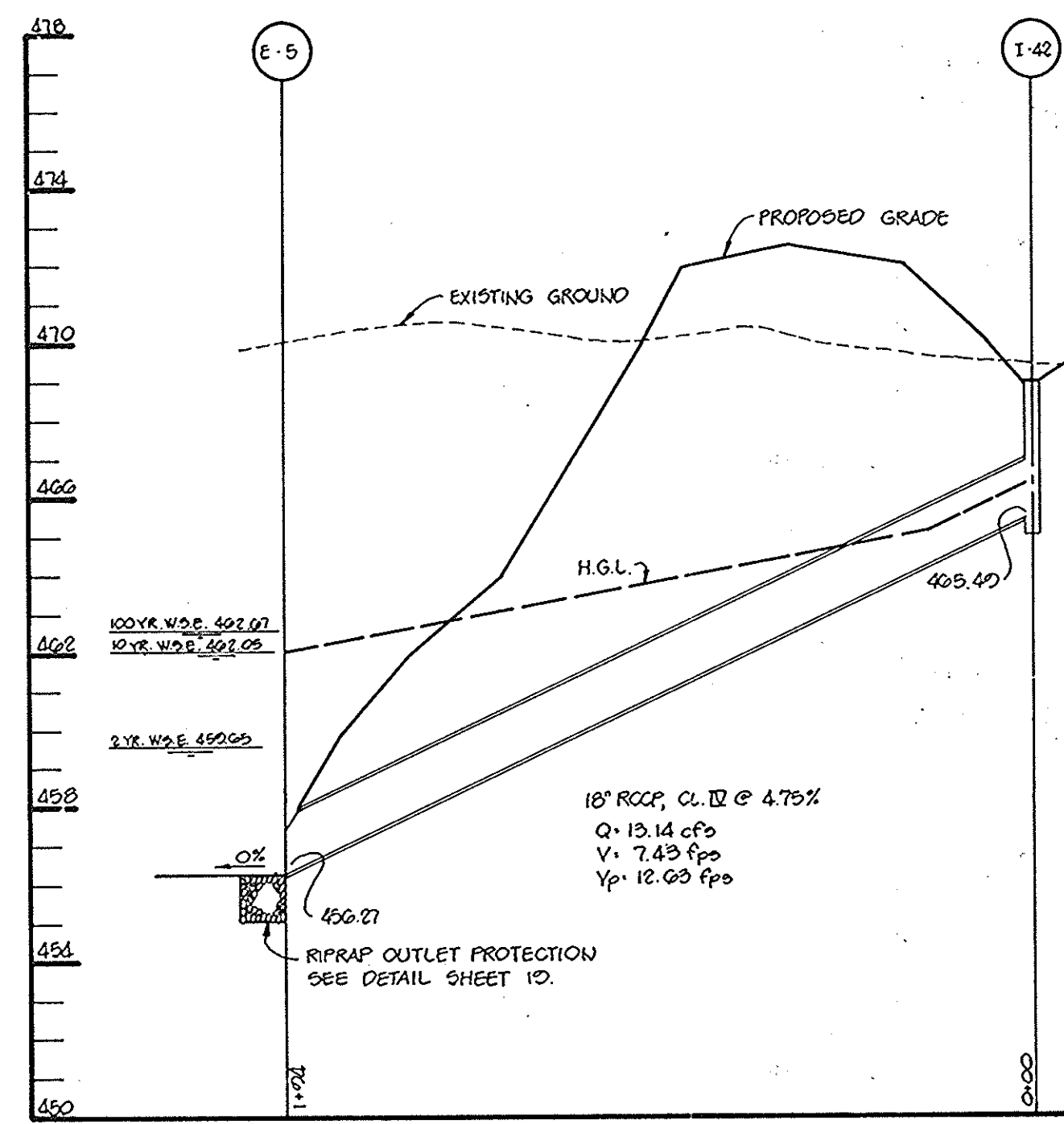
HIGH JUMP PLAN
NOT TO SCALE



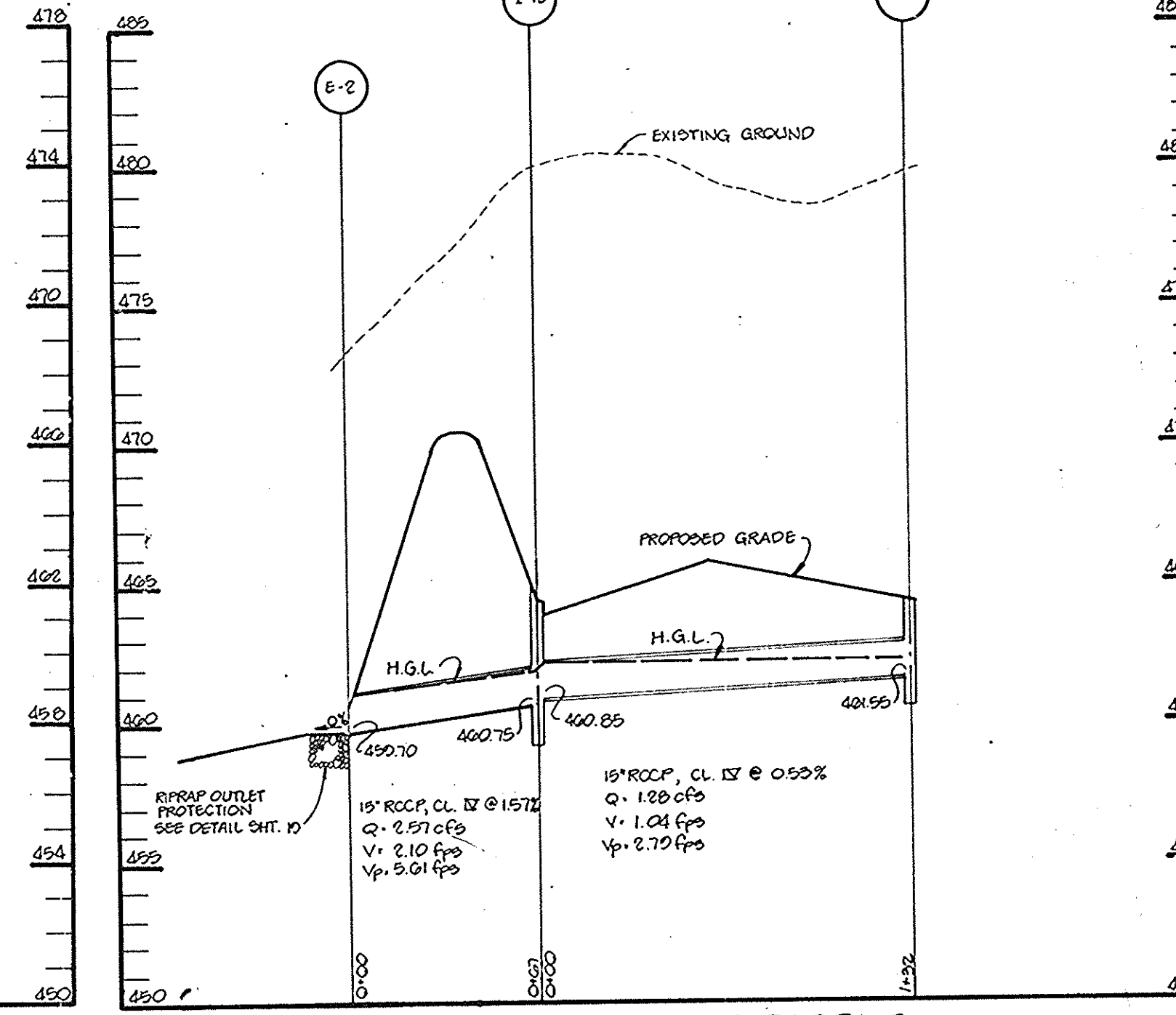
BOLLARD DETAIL
NOT TO SCALE



FOUNDATION AT ENTRY
NOTE: OCCURS AT ALL EXTERIOR DOORS
NO SCALE



STORM DRAIN PROFILE
SCALE: HOR: 1"=40'
VERT: 1"=4'



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

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Joyce M. Boyd</i>	8/25/92
COUNTY HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. Smith</i>	8/27/92
DIRECTOR	DATE
<i>Anna I. Hilsenrath</i>	8/27/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
APPROVED : FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
<i>James P. Lewis</i>	8/27/92
DIRECTOR	DATE
<i>William S. Piny</i>	8-27-92
CHIEF, BUREAU OF ENGINEERING	DATE

4345	1	REVISION SHEET TOTAL & SCHOOL NAME
DATE	NO.	REVISION
OWNER	DEVELOPER	
HOWARD RESEARCH AND DEVELOPMENT CORP.	BOARD OF EDUCATION OF HOWARD COUNTY	
10275 LITTLE PATENT PARKWAY	10910 ROUTE 100	
COLUMBIA, MARYLAND 21044	BELLICOTT CITY, MARYLAND 21033	
PROJECT:	RIVER HILL WESTERN HIGH SCHOOL	
AREA	TAX MAP 35 PART OF PARCEL 3 VILLAGE OF RIVER HILL, SECTION 3, AREA 1, LOT 1 5TH ELECTION DISTRICT, HOWARD COUNTY MARYLAND	
TITLE:	REVISION SHEET DEVELOPMENT PLAN STORM DRAIN PROFILES AND DETAILS	

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
8818 Centre Park Drive • Suite 200 • Columbia, Maryland 21045
301-997-8900 • FAX: 301-997-9282

8-12-92	8-22-92	8-25-92
DATE	DATE	DATE
DESIGNED BY: JTD		
DRAWN BY: MAD		
PROJECT NO: 80200		
DATE: AUGUST 12, 1992		
SCALE: AS SHOWN		
DRAWING NO. C 30 OF 30		

STATE OF MARYLAND
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Name: *Mad* License No. 16156 Expiration Date: 8-28-16
FOR REVISION 1 ONLY

DATE: July 21, 1992
dks

RIVER HILL HIGH SCHOOL FIELD IMPROVEMENTS

INDEX OF DRAWINGS

- C31 TITLE SHEET
- C32 EXISTING PLAN/DEMOLITION PLAN
- C33 STAKE-OUT PLAN
- C34 SITE PLAN AND EROSION & SEDIMENT CONTROL PLAN
- C35-38 SITE DETAILS I, II, III & IV
- C39 PIPE PROFILES
- C40 EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 HOWARD COUNTY PUBLIC SCHOOLS AT 410-313-6600 AND MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK.
2. COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD '83/'11 AS PROJECTED BY HOWARD COUNTY PROJECT CONTROL STATIONS 29GB, 29GC, URS1, URS2, URS3, AND URS4.

29GB
N:566,826.1470
E:1,333,265.9230
ELEV:455.9640
HOWARD COUNTY DISK FOUND

29GC
N:565,530.8010
E:1,332,248.7760
ELEV:490.7140
HOWARD COUNTY DISK FOUND

THE SYSTEM OF COORDINATES USED IS BASED ON THE FOLLOWING DATUMS AND PROJECTIONS:

HORIZONTAL: NAD83/2011
VERTICAL: NAVD88

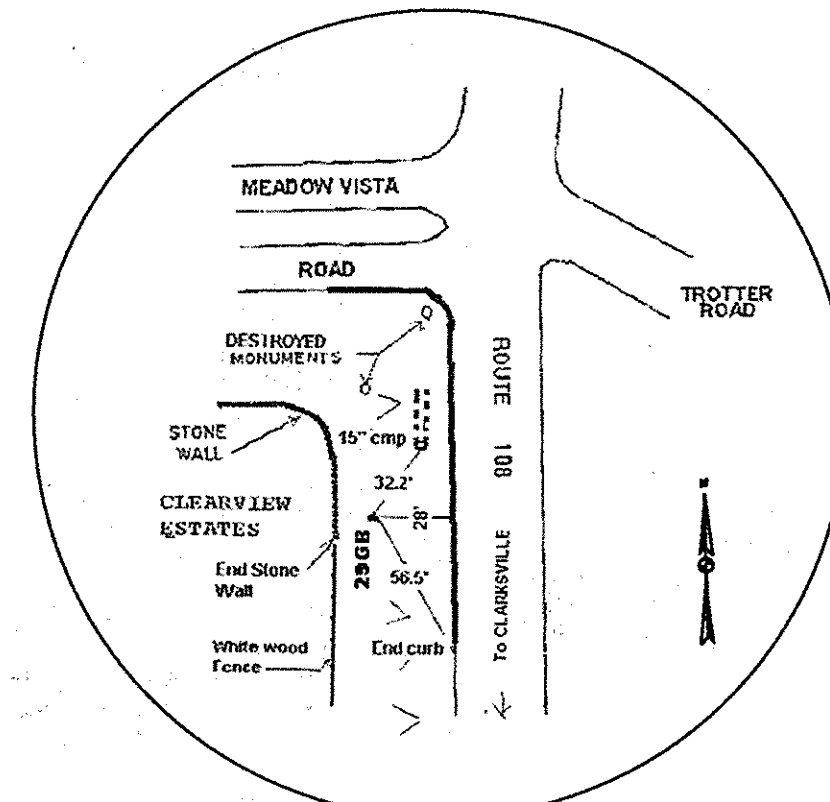
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION SERVICE.
5. TOPOGRAPHIC SURVEYS WERE PERFORMED BY URS CORPORATION IN OCTOBER 2014.
6. THE PROPERTY LINES AND EASEMENT LINES ARE APPROXIMATE.
7. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
8. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
9. APPROXIMATE UTILITIES ARE SHOWN FROM AVAILABLE RECORDS AND/OR FIELD RECONNAISSANCE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

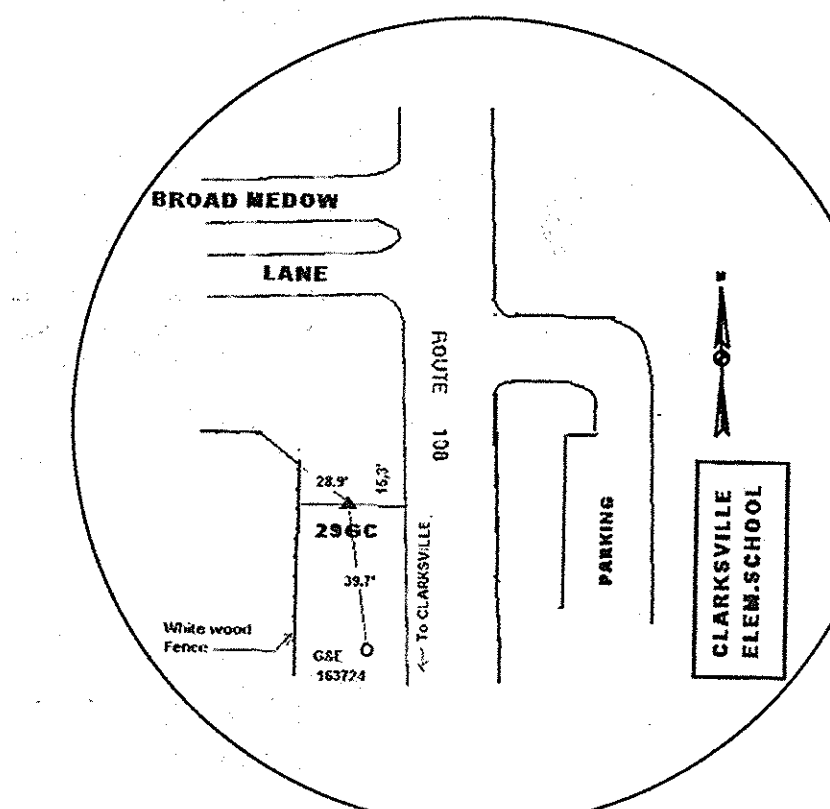
UTILITY CONTACTS:

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	(410) 637-8713
BGE (EMERGENCY)	(410) 685-0123
HOCO BUREAU OF UTILITIES	(410) 313-4900
COLONIAL PIPELINE CO.	(410) 795-1390
MISS UTILITY PIPELINE CO.	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
VERIZON	1-800-743-0033

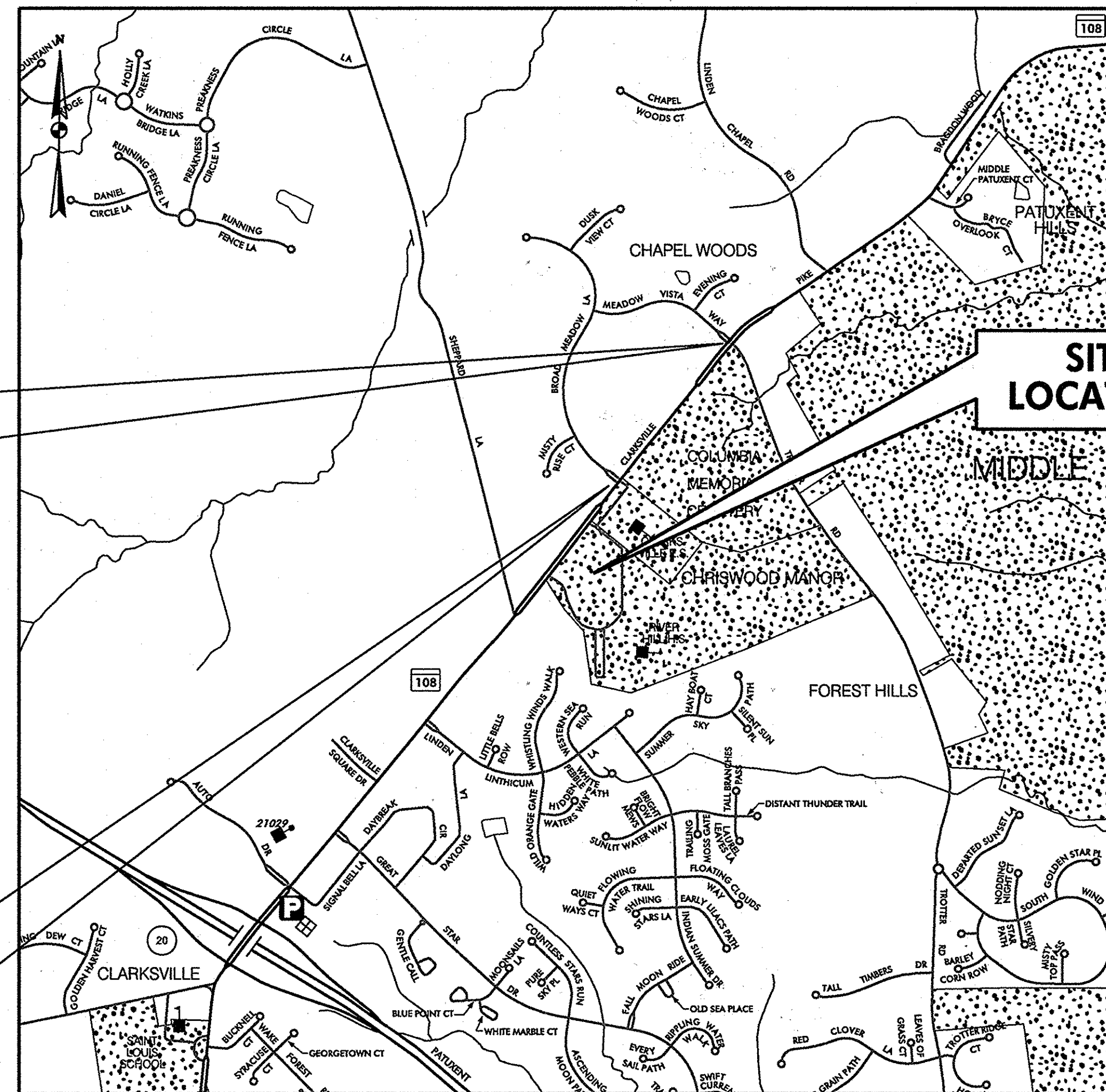
10. THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION IN ACCORDANCE WITH SECTION 16.1202(b)(1)(v) OF THE COUNTY CODE BECAUSE IT IS LOCATED IN THE NT ZONING DISTRICT WHICH IS CONSIDERED A PLANNED UNIT DEVELOPMENT THAT HAD PRELIMINARY PLAN APPROVAL PRIOR TO DECEMBER 31, 1992.



CONTROL 29GB



CONTROL 29GC



LOCATION MAP
HOWARD COUNTY
SCALE: 1" = 1000'

DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 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."

Quincy Com
SIGNATURE OF DEVELOPER DATE: 5-7-15

ENGINEER'S CERTIFICATION

"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."

URS Corporation
4 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
DATE: 4-30-15

PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2016."

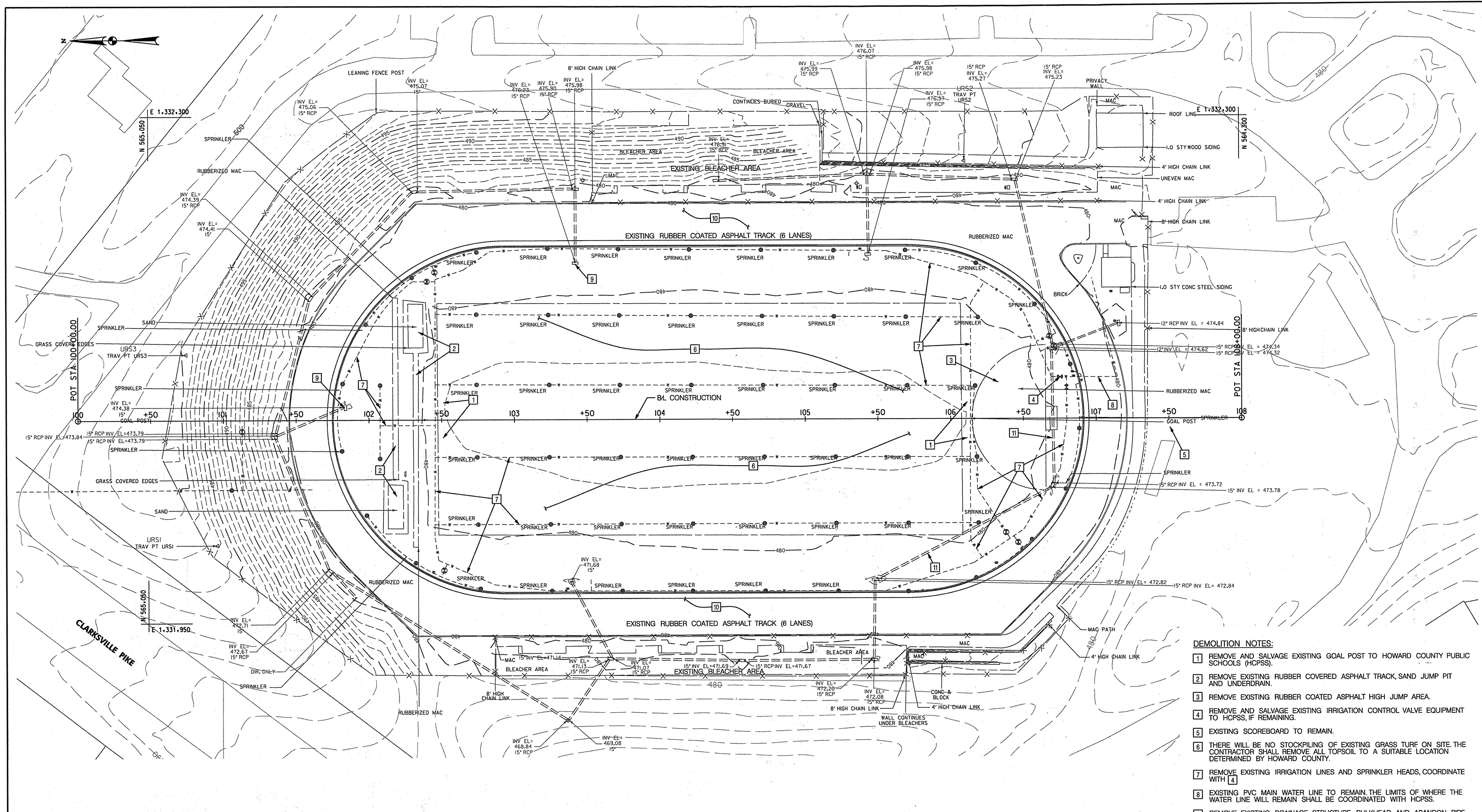
John R. Robinson, P.E.
HOWARD SOIL CONSERVATION DISTRICT DATE: 5/4/15

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 5-20-15
Keefe
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5-26-15
Acaine
DIRECTOR DATE: 5-28-2015

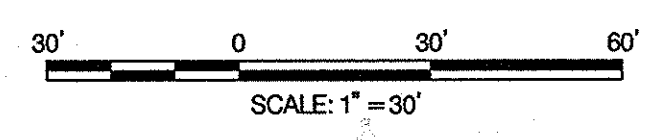
TRAVERSE POINTS AND BENCHMARK INFORMATION				
POINT NO.	NORTHING	EASTING	ELEVATION	MARKER TYPE
29GB	566,826.147	1,333,265.923	455.96'	HOWARD COUNTY ROD
29GC	565,530.801	1,332,248.776	490.71'	HOWARD COUNTY ROD
URS1	565,002.591	1,332,003.658	497.16'	MAGNAIL
URS2	564,488.8713	1,332,268.758	486.93'	MAGNAIL
URS3	565,023.982	1,332,135.434	499.94'	MAGNAIL
URS4	565,445.534	1,332,276.949	491.92'	MAGNAIL

<p>HOWARD COUNTY PUBLIC SCHOOL SYSTEM HOWARD COUNTY, MARYLAND</p> <p><i>ACR</i> DIRECTOR, HOWARD COUNTY RECREATION AND PARKS DATE: 5/4/15</p>	<p>PREPARED BY URS 4 NORTH PARK DRIVE HUNT VALLEY, MARYLAND TEL: (410) 785-7220</p>	<p>DES: DMT DRN: CDF CHK: DTM DATE: 04/2015</p>	<p>DATE: 04/2015 BY: NO. REVISION DATE: 4/2015</p>	<p>TITLE SHEET</p>	<p>REVISED SITE DEVELOPMENT PLAN RIVER HILL HIGH SCHOOL FIELD IMPROVEMENTS</p> <p>5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN SHEET C31 OF 40</p>
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- DEMOLITION NOTES:**
- 1 REMOVE AND SALVAGE EXISTING GOAL POST TO HOWARD COUNTY PUBLIC SCHOOLS (HCPSS).
 - 2 REMOVE EXISTING RUBBER COVERED ASPHALT TRACK, SAND JUMP PIT AND UNDERDRAIN.
 - 3 REMOVE EXISTING RUBBER COATED ASPHALT HIGH JUMP AREA.
 - 4 REMOVE AND SALVAGE EXISTING IRRIGATION CONTROL VALVE EQUIPMENT TO HCPSS, IF REMAINING.
 - 5 EXISTING SCOREBOARD TO REMAIN.
 - 6 THERE WILL BE NO STOCKPILING OF EXISTING GRASS TURF ON SITE. THE CONTRACTOR SHALL REMOVE ALL TOPSOIL TO A SUITABLE LOCATION DETERMINED BY HOWARD COUNTY.
 - 7 REMOVE EXISTING IRRIGATION LINES AND SPRINKLER HEADS, COORDINATE WITH 4.
 - 8 EXISTING PVC MAIN WATER LINE TO REMAIN. THE LIMITS OF WHERE THE WATER LINE WILL REMAIN SHALL BE COORDINATED WITH HCPSS.
 - 9 REMOVE EXISTING DRAINAGE STRUCTURE. BULK-HEAD AND ABANDON PIPE USING FLOWABLE FILL.
 - 10 EXISTING RUBBER COATED ASPHALT TRACK TO REMAIN.
 - 11 EXISTING STORM DRAIN PIPE TO REMAIN.

GENERAL NOTE:
REFER TO SHEET 34 FOR ANY DRAINAGE DEMOLITION REQUIREMENTS.



- LEGEND**
- -400 --- EXISTING CONTOUR
 - X-X-X EXISTING CHAIN LINK FENCE
 - - - - - EXISTING UNDERGROUND ELECTRIC
 - ===== EXISTING RCP

PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016"

APPROVED: DEPARTMENT OF PLANNING AND ZONING

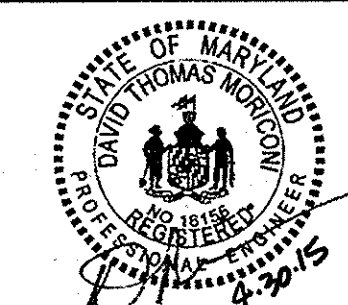
John E. ... 5.20.15
CHIEF, DEVELOPMENT ENGINEERING DIVISION 4 DATE

Ke ... 5.26.15
CHIEF, DIVISION OF LAND DEVELOPMENT 4 DATE

Ac ... 5.28.2015
DIRECTOR DATE

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND

... 5/14/15 *...* 5/14/15
DIRECTOR, HOWARD COUNTY RECREATION AND PARKS DATE ASSISTANT MANAGER, GROUNDS SERVICES, HOWARD COUNTY PUBLIC SCHOOL SYSTEM



DES:	DMT				
DRN:	CDF				
CHK:	DTM				
DATE:	04/20/15	DTM	NEW SHEET	4/20/15	
BY:	NO.		REVISION	DATE	

EXISTING PLAN / DEMOLITION PLAN

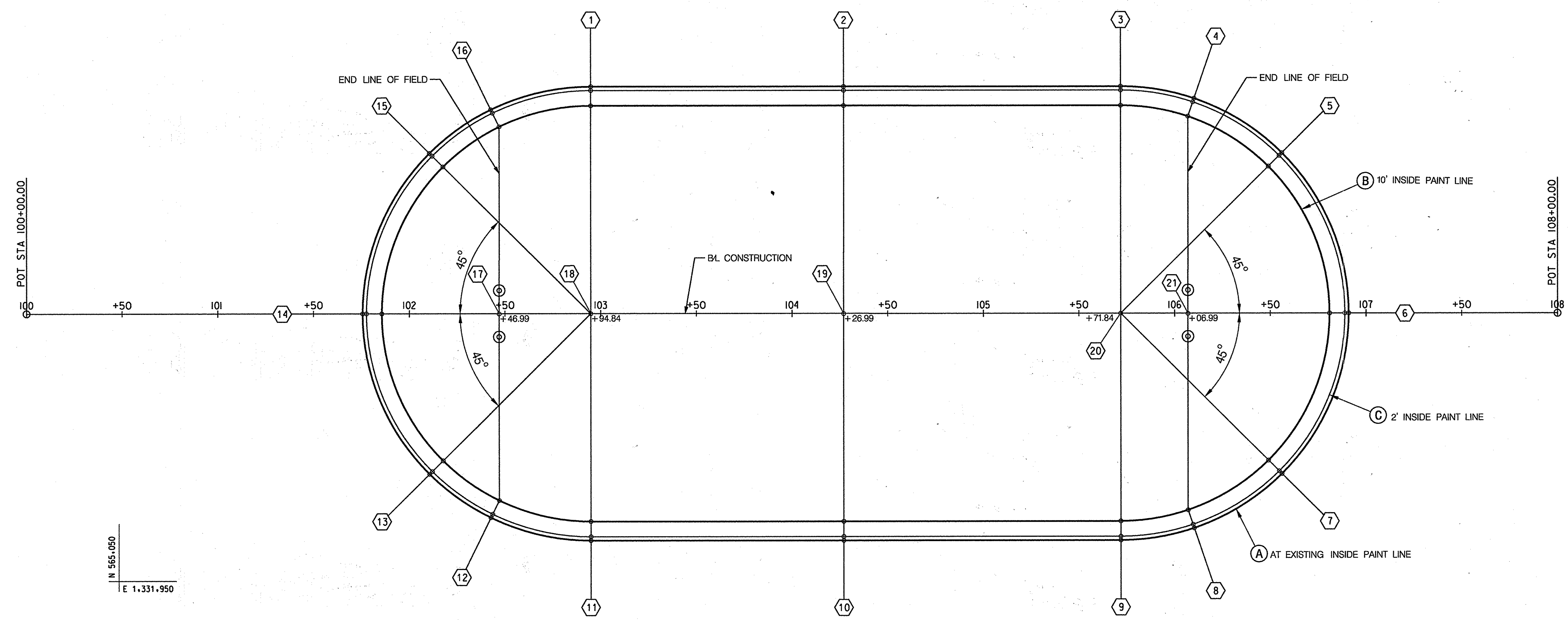
REVISED SITE DEVELOPMENT PLAN
RIVER HILL HIGH SCHOOL
FIELD IMPROVEMENTS
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE
1" = 30'
SHEET
C32 OF 40



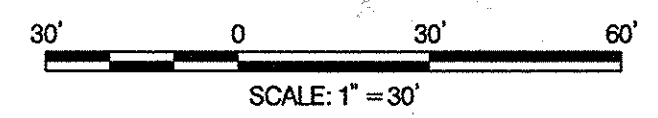
E 1.332.300
N 565.050

E 1.332.300
N 564.300



POINT	NORTHING	EASTING	ELEVATION
(1A)	564,803.6874	1,332,209.5603	479.60
(1B)	564,803.6808	1,332,199.5603	480.15
(1C)	564,803.6861	1,332,207.5603	479.56
(2A)	564,671.5384	1,332,209.6477	479.63
(2B)	564,671.5318	1,332,199.6478	480.15
(2C)	564,671.5371	1,332,207.6477	479.59
(3A)	564,526.6941	1,332,209.7436	479.58
(3B)	564,526.6875	1,332,199.7436	480.15
(3C)	564,526.6928	1,332,207.7436	479.54
(4A)	564,488.3132	1,332,203.4191	479.70
(4B)	564,491.5280	1,332,193.9499	480.18
(4C)	564,488.9561	1,332,201.5252	479.66
(5A)	564,442.4116	1,332,174.8907	479.71
(5B)	564,449.4780	1,332,167.8150	480.10
(5C)	564,443.8249	1,332,173.4756	479.67
(6A)	564,407.4719	1,332,090.6544	479.65
(6B)	564,417.4719	1,332,090.6478	480.33
(6C)	564,409.4719	1,332,090.6531	479.61
(7A)	564,442.3247	1,332,006.3965	479.61
(7B)	564,449.4005	1,332,013.4629	480.10
(7C)	564,443.7399	1,332,007.8098	479.57
(8A)	564,488.1639	1,331,977.8320	479.57
(8B)	564,491.3913	1,331,987.2969	480.18
(8C)	564,488.8094	1,331,979.7250	479.53
(9A)	564,526.5365	1,331,971.4568	479.54
(9B)	564,526.5431	1,331,981.4568	480.15
(9C)	564,526.5378	1,331,973.4568	479.50
(10A)	564,671.3807	1,331,971.3351	479.57
(10B)	564,671.3874	1,331,981.3351	480.15
(10C)	564,671.3821	1,331,973.3351	479.53
(11A)	564,803.5297	1,331,971.2241	479.55
(11B)	564,803.5364	1,331,981.2241	480.15
(11C)	564,803.5311	1,331,973.2241	479.51
(12A)	564,855.7719	1,331,983.2473	479.62
(12B)	564,851.3946	1,331,992.2384	480.21
(12C)	564,854.8964	1,331,985.0455	479.58
(13A)	564,887.8175	1,332,006.0720	479.66
(13B)	564,880.7511	1,332,013.1477	480.17
(13C)	564,886.4042	1,332,007.4871	479.62
(14A)	564,922.7767	1,332,090.3135	479.63
(14B)	564,912.7767	1,332,090.3201	480.39
(14C)	564,920.7767	1,332,090.3148	479.59
(15A)	564,887.9288	1,332,174.6011	479.64
(15B)	564,880.8531	1,332,167.5347	480.17
(15C)	564,886.5137	1,332,173.1878	479.60
(16A)	564,855.9136	1,332,197.4680	479.69
(16B)	564,851.5244	1,332,188.4828	480.21
(16C)	564,855.0358	1,332,195.6710	479.65
(17)	564,851.4595	1,332,090.3607	480.69
(18)	564,803.6086	1,332,090.3923	480.70
(19)	564,671.4596	1,332,090.4798	480.70
(20)	564,526.6153	1,332,090.5756	480.70
(21)	564,491.4596	1,332,090.5988	480.70

NOTES:
 -FOR LONG/TRIPLE JUMP STAKE OUT SEE SHEET 36
 -FOR HIGH JUMP STAKE OUT SEE SHEET 36

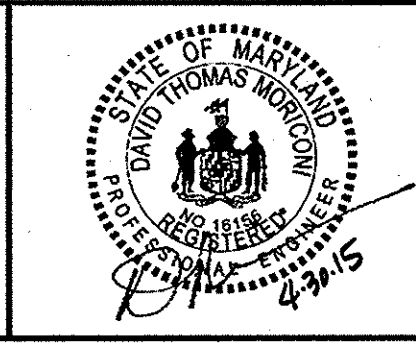


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APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE 5-20-15
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE 5-26-15
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] DATE 5-28-2015
 DIRECTOR

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HOWARD COUNTY, MARYLAND
 [Signature] DATE 5/4/15
 DIRECTOR, HOWARD COUNTY RECREATION AND PARKS
 [Signature] DATE 5/4/15
 ASSISTANT MANAGER, GROUNDS SERVICES, HOWARD COUNTY PUBLIC SCHOOL SYSTEM

PREPARED BY
URS
 4 NORTH PARK DRIVE
 HUNT VALLEY, MARYLAND
 TEL: (410) 785-7220



DES:	DMT				
DRN:	CDF				
CHK:	DTM				
DATE:	04/2015	DTM	NEW SHEET	4/2015	
BY:	NO.		REVISION	DATE	

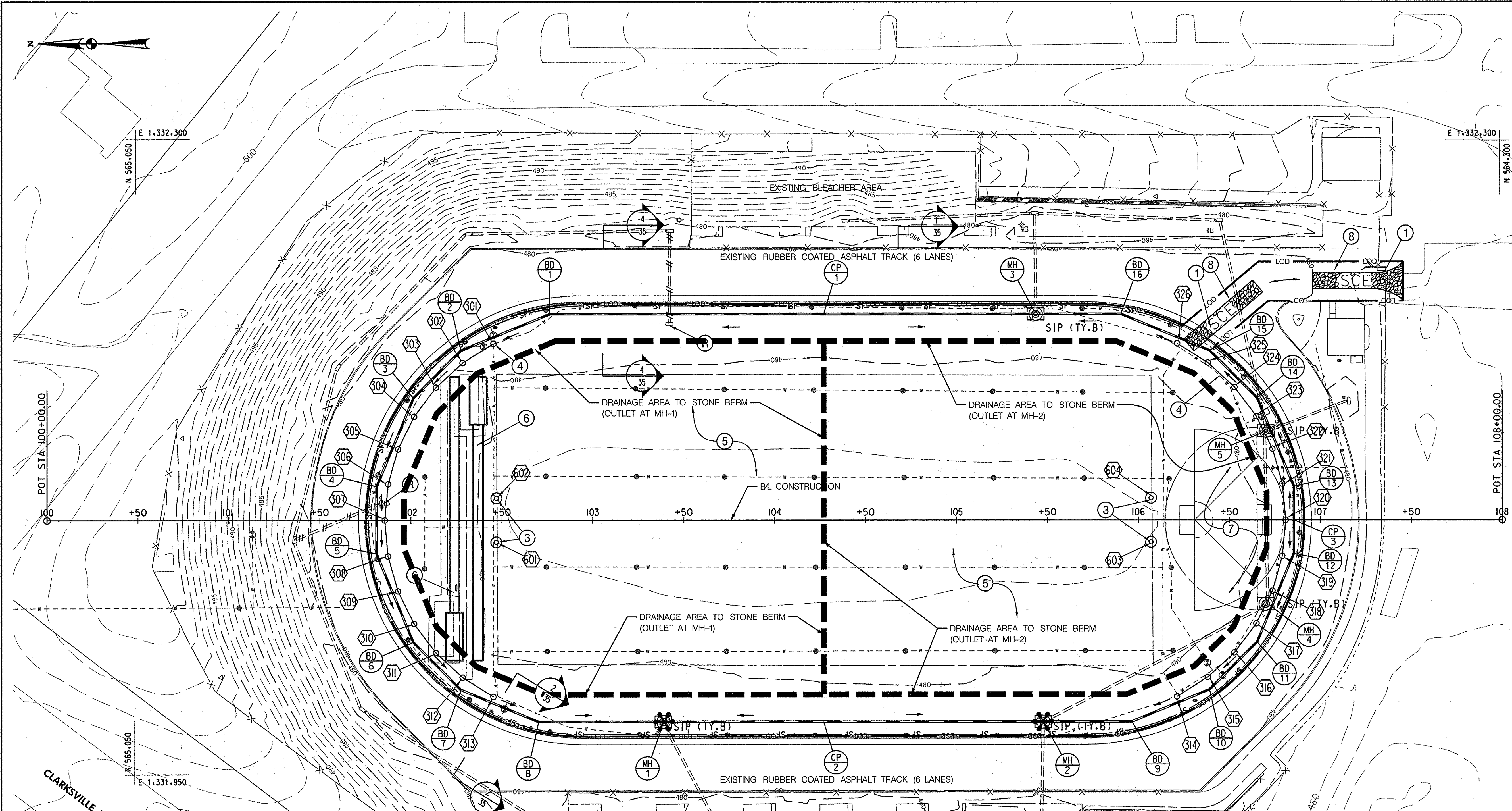
STAKE-OUT PLAN
 SCALE MAP NO. _____ BLOCK NO. _____

REVISED SITE DEVELOPMENT PLAN
 RIVER HILL HIGH SCHOOL
 FIELD IMPROVEMENTS
 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE
 1" = 30'
 SHEET
 C33 OF 40

GOAL POSTS			
POINT	NORTHING	EASTING	ELEVATION
601	564,851.4676	1,332,102.5270	480.64
602	564,851.4515	1,332,078.1940	480.64
603	564,491.4515	1,332,078.4320	480.64
604	564,491.4676	1,332,102.7650	480.64

SAFETY NETTING SLEEVES			
POINT	NORTHING	EASTING	ELEVATION
301	564,853.1166	1,332,187.6888	480.20
302	564,870.0360	1,332,177.0241	480.15
303	564,884.7257	1,332,163.4517	480.15
304	564,896.6929	1,332,147.4271	480.16
305	564,905.5359	1,332,129.4883	480.20
306	564,910.9578	1,332,110.2372	480.26
307	564,912.7767	1,332,090.3201	480.36
308	564,910.9315	1,332,070.4054	480.26
309	564,905.4842	1,332,051.1616	480.20
310	564,896.6175	1,332,033.2344	480.16
311	564,884.6292	1,332,017.2257	480.15
312	564,869.9215	1,332,003.6727	480.15
313	564,852.9881	1,331,993.0303	480.20
314	564,477.1645	1,331,993.3021	480.11
315	564,460.2404	1,332,003.9592	480.08
316	564,445.5450	1,332,017.5255	480.09
317	564,433.5719	1,332,033.5457	480.10
318	564,424.7230	1,332,051.4816	480.14
319	564,419.2956	1,332,070.7311	480.20
320	564,417.4719	1,332,090.6478	480.30
321	564,419.3130	1,332,110.5628	480.20
322	564,424.7572	1,332,129.8076	480.14
323	564,433.6217	1,332,147.7358	480.10
324	564,445.6088	1,332,163.7455	480.09
325	564,460.3160	1,332,177.2990	480.09
326	564,477.2494	1,332,187.9413	480.12



- LEGEND**
- - - - - EXISTING CONTOUR
 - X - - - - EXISTING CHAIN LINK FENCE
 - - - - - EXISTING UNDERGROUND ELECTRIC
 - == # == # == ABANDON EXISTING PIPE & FILL WITH FLOWABLE FILL
 - == # == # == REMOVE EXISTING PIPE
 - SAFETY NETTING SLEEVES
 - SIP STANDARD INLET PROTECTION
 - - - - - SF SILT FENCE
 - ⊗ REMOVE EXISTING STRUCTURE/PLUG PIPES
 - ⊙ COMBATION GOAL GROUND SLEEVE
 - MH MANHOLE
 - BD BEND
 - CP COUPLING
 - 10" HDPE UNDERDRAIN

CONTRACTOR SHALL LOCATE THE STAGING AND STOCKPILE AREA AND IS RESPONSIBLE FOR PROVIDING ANY ADDITIONAL EROSION CONTROLS AS REQUIRED BY THE INSPECTOR WITHIN THE APPROVED LIMIT OF DISTURBANCE. OFFSITE STAGING, STOCKPILE, OR WASTE SITE THE CONTRACTOR UTILIZES MUST HAVE AN ACTIVE APPROVED GRADING PERMIT.

Standard Stabilization Note

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:

- Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and
- Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016"

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John C. ... 5-20-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kevin J. ... 5-26-15
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Andrew W. ... 5-28-2015
DIRECTOR, DEP DATE

DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 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."

Anthony ... 5-7-15
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATION

"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."

URS Corporation 4-30-15
4 NORTH PARK DRIVE DATE
HUNT VALLEY, MD 21103

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

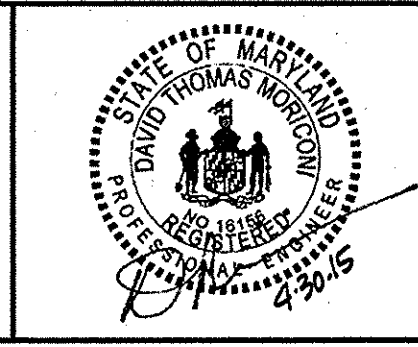
John P. ... 5/14/15
HOWARD SOIL CONSERVATION DISTRICT DATE

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND

Andrew ... 5/14/15
DIRECTOR, HOWARD COUNTY RECREATION AND PARKS DATE

Anthony ... 5/14/15
ASSISTANT MANAGER, GROUNDS SERVICES, HOWARD COUNTY PUBLIC SCHOOL SYSTEM

PREPARED BY
URS
4 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
TEL: (410) 785-7220



DES:	DMT				
DRN:	CDF				
CHK:	DTM				
DATE:	04/2015	DTM	NEW SHEET		4/2015
BY:	NO.	REVISION			DATE

SITE PLAN AND EROSION & SEDIMENT CONTROL PLAN

SCALE MAP NO. _____ BLOCK NO. _____

REVISED SITE DEVELOPMENT PLAN
RIVER HILL HIGH SCHOOL
FIELD IMPROVEMENTS

5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1" = 30'

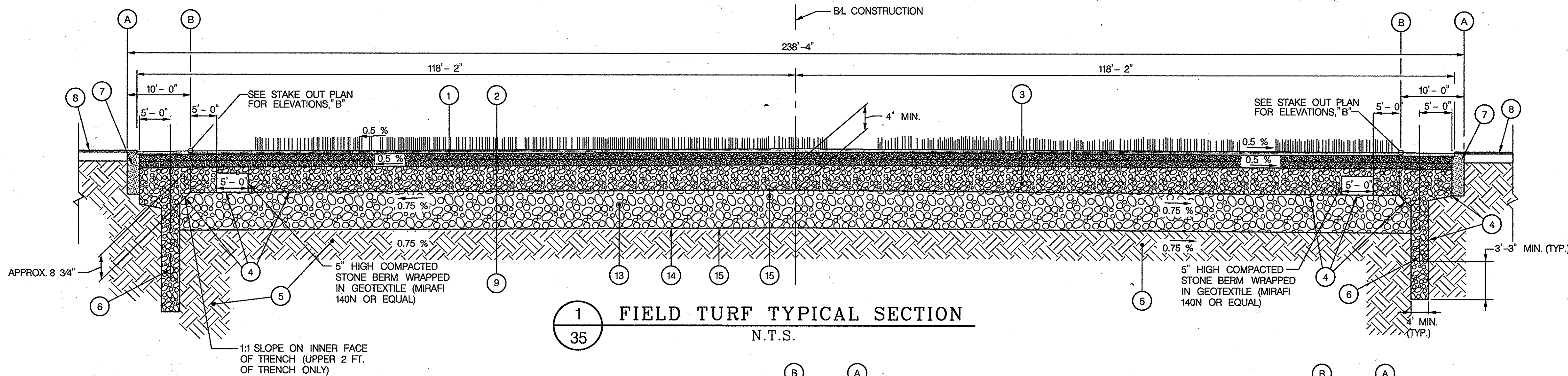
SHEET C34 OF 40

LEGEND

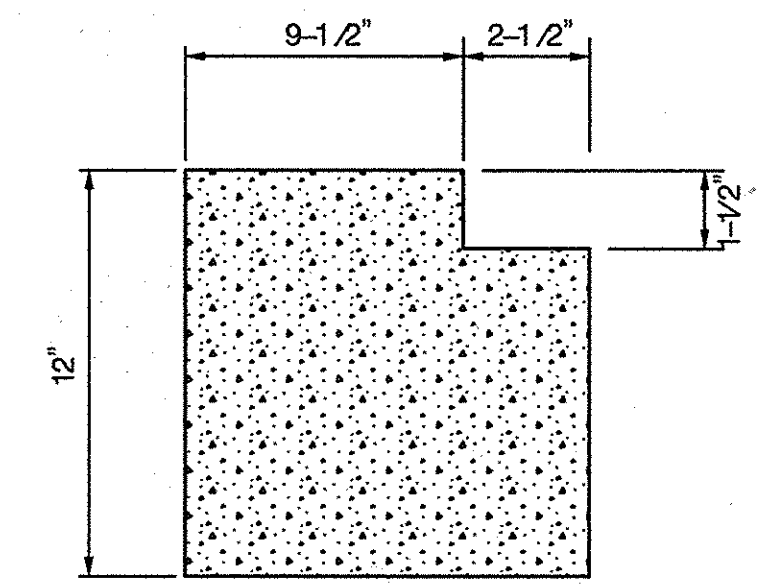
- 1 2 - 12" PILE FIELD TURF WITH 1 - 3/4" OF INFILL.
- 2 1" OF FINISHING STONE AS PER SPECIFICATIONS, COMPACTED AND GRADED TO WITHIN 0 - 1/2" OF DESIGN GRADE AND WITHIN 0 - 1/4" IN 10 FEET (USE LASER GUIDED GRADER).
- 3 VARIABLE DEPTH (MIN. 4" @ CENTER) #2 BASE STONE.
- 4 GEOTEXTILE (MIRAFI 140N OR EQUAL) LINING THE TRENCH AND UNDER THE BASE.
- 5 NATURAL SOIL COMPACTED TO 95% PROCTOR.
- 6 10" DIAMETER PERFORATED COLLECTOR PIPE, SLOPE AT 0.5 %.
- 7 CONCRETE CURB (SEE DETAILS THIS SHEET)
- 8 EXISTING RUBBER COATED TRACK.
- 9 1" OF #8 STONE.
- 10 RUBBER COATING ON TRACK.
- 11 FULL DEPTH SAWCUT AT CENTER OF PAINT LINE.
- 12 CENTER OF WHITE PAINT LINE - MATCH EXISTING.
- 13 6" AASHTO NO. 57 STONE. (IF SOIL STABILIZATION IS REQUIRED)
- 14 NON-WOVEN GEOTEXTILE FABRIC (ANCHOR TO SUBGRADE USING LANDSCAPE STAPLES OR SIMILAR)
- 15 TRIAXIAL GEOGRID (MINIMUM TENSILE STRENGTH OF 15,000 LB/FT @ 0.5% STRAIN) (IF SOIL STABILIZATION IS REQUIRED)

NOTES

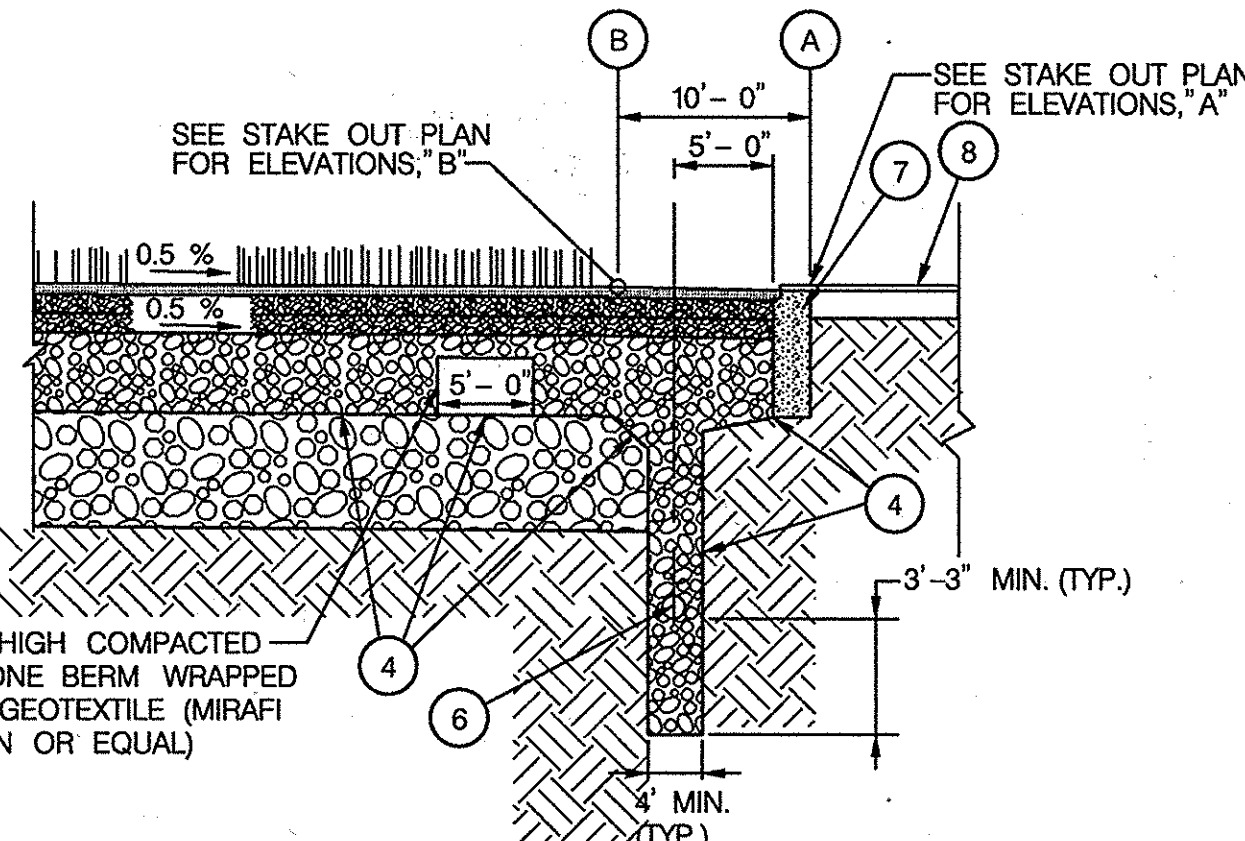
- 1. CUT AN OPENING IN THE EXISTING CONVERTED MANHOLE TO ACCOMMODATE THE NEW PIPE. BRICK AND GROUT (NON-SHRINK) EXISTING OPENINGS AND GROUT NEW PIPE.
- 2. SET FRAME AND COVER TO MEET PROPOSED FINISHED GRADE.
- 3. SEE MARYLAND STANDARD MD-383.31 & 383.32 FOR THE STANDARD TYPE "A" MANHOLE FRAME AND COVER.
- 4. MANHOLE FRAME AND COVER TO BE PLACED AS SHOWN.
- 5. SEE STAKE-OUT PLAN FOR ELEVATIONS AT POINTS (A), (B), AND (C)



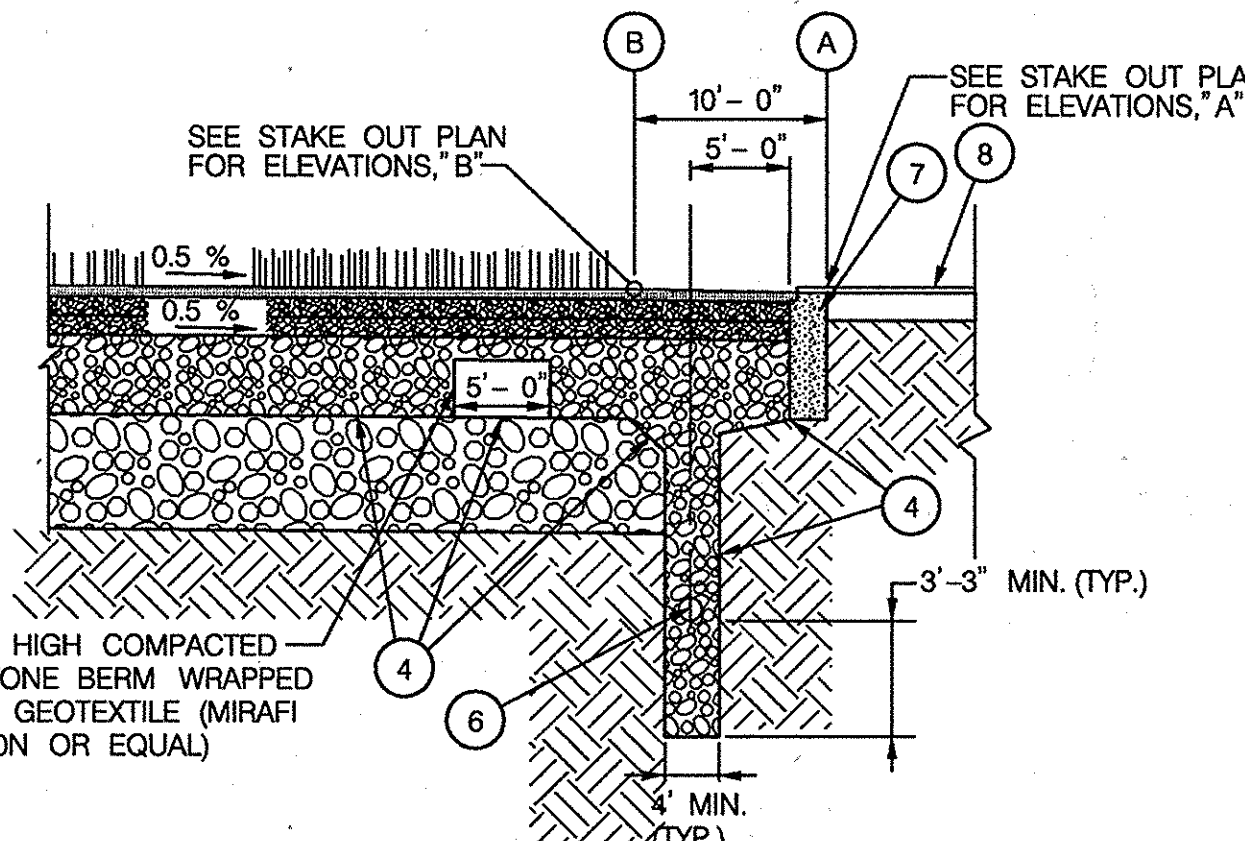
1 FIELD TURF TYPICAL SECTION
35 N.T.S.



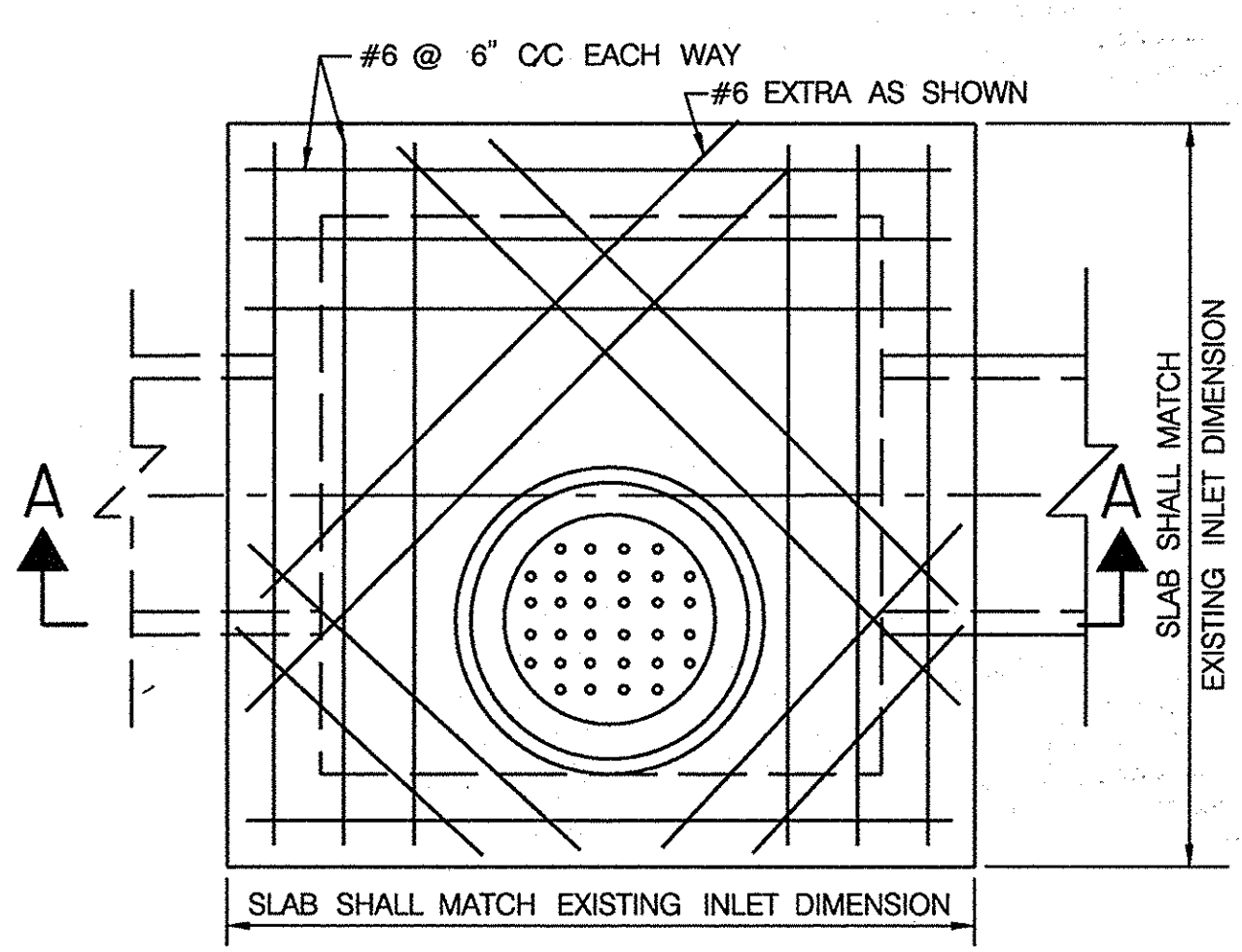
2 NAILER NOTCH
35 N.T.S.



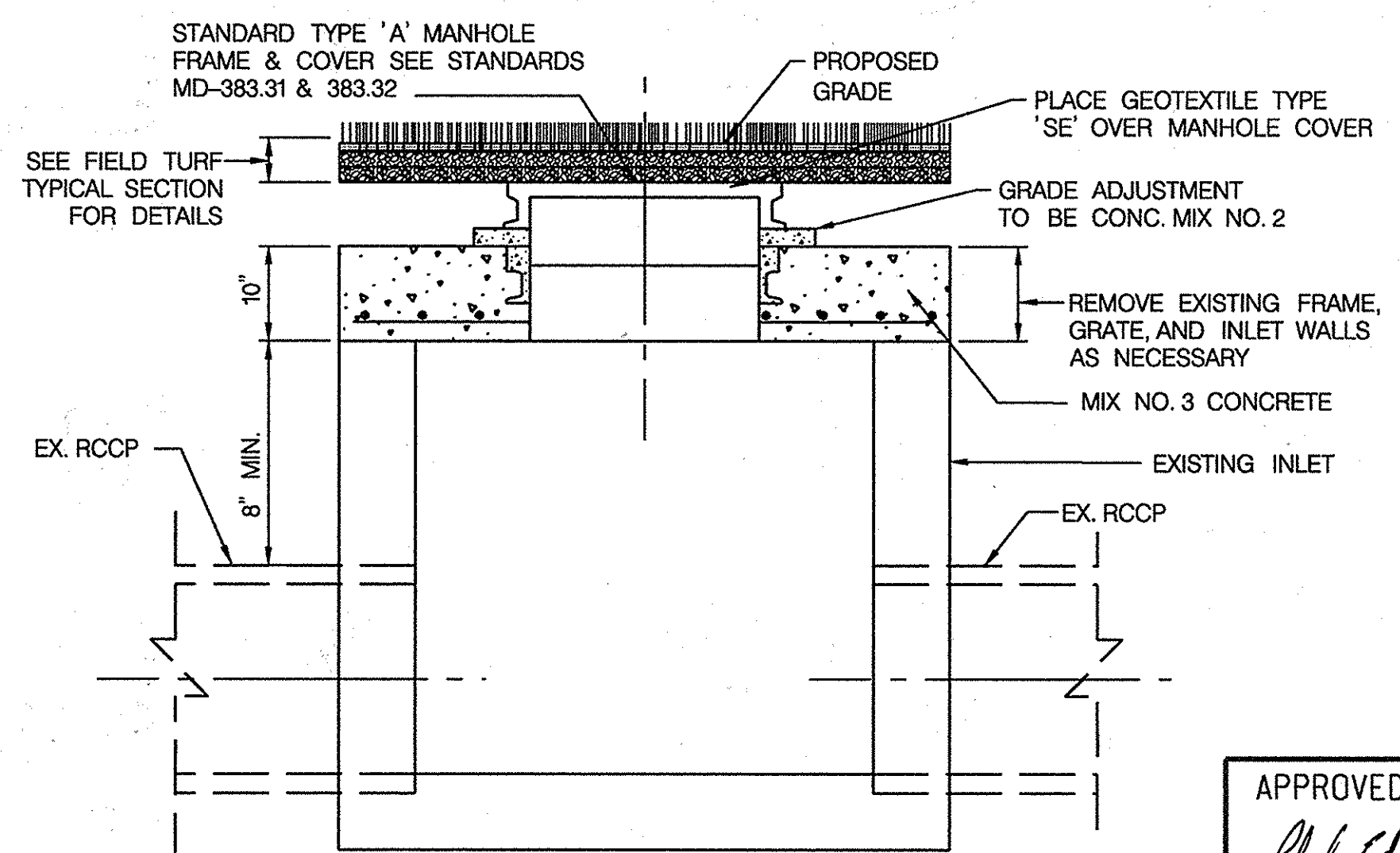
3A "D" SEMI-CIRCLE FIELD TURF TYPICAL SECTION LEFT
35 N.T.S.



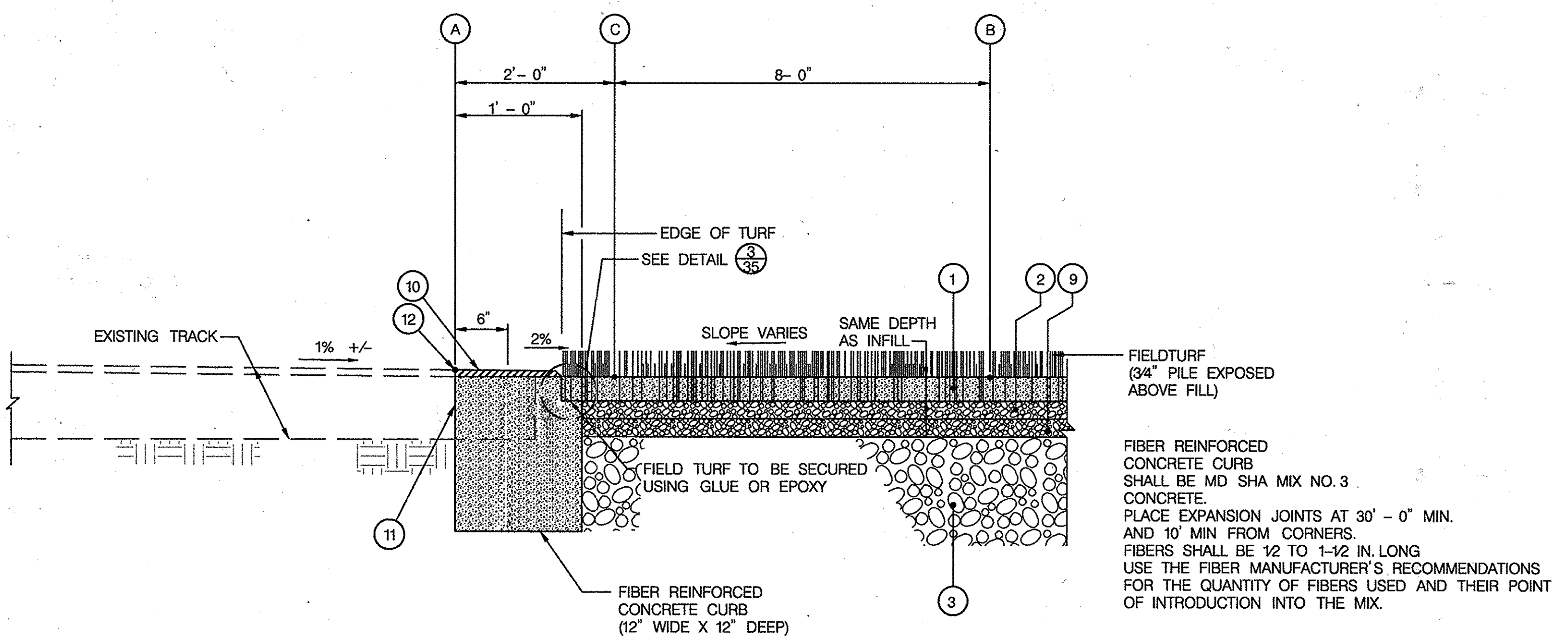
3B "D" SEMI-CIRCLE FIELD TURF TYPICAL SECTION RIGHT
35 N.T.S.



PLAN
NOTE: MANHOLE FRAME AND COVER TO BE PLACED AS SHOWN.



SECTION A-A



4 CONCRETE CURB EDGE
35 N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Clark 5-20-15
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Kate Sanderson 5-26-15
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
Aaron W.A. Munkley 5-28-2015
 DIRECTOR DATE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 HOWARD COUNTY, MARYLAND
 DIRECTOR: *ACR/MS* 5/14/15
 ASSISTANT MANAGER: *Grounds Services* 5/14/15
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM

PREPARED BY
URS
 4 NORTH PARK DRIVE
 HUNT VALLEY, MARYLAND
 TEL: (410) 785-7220

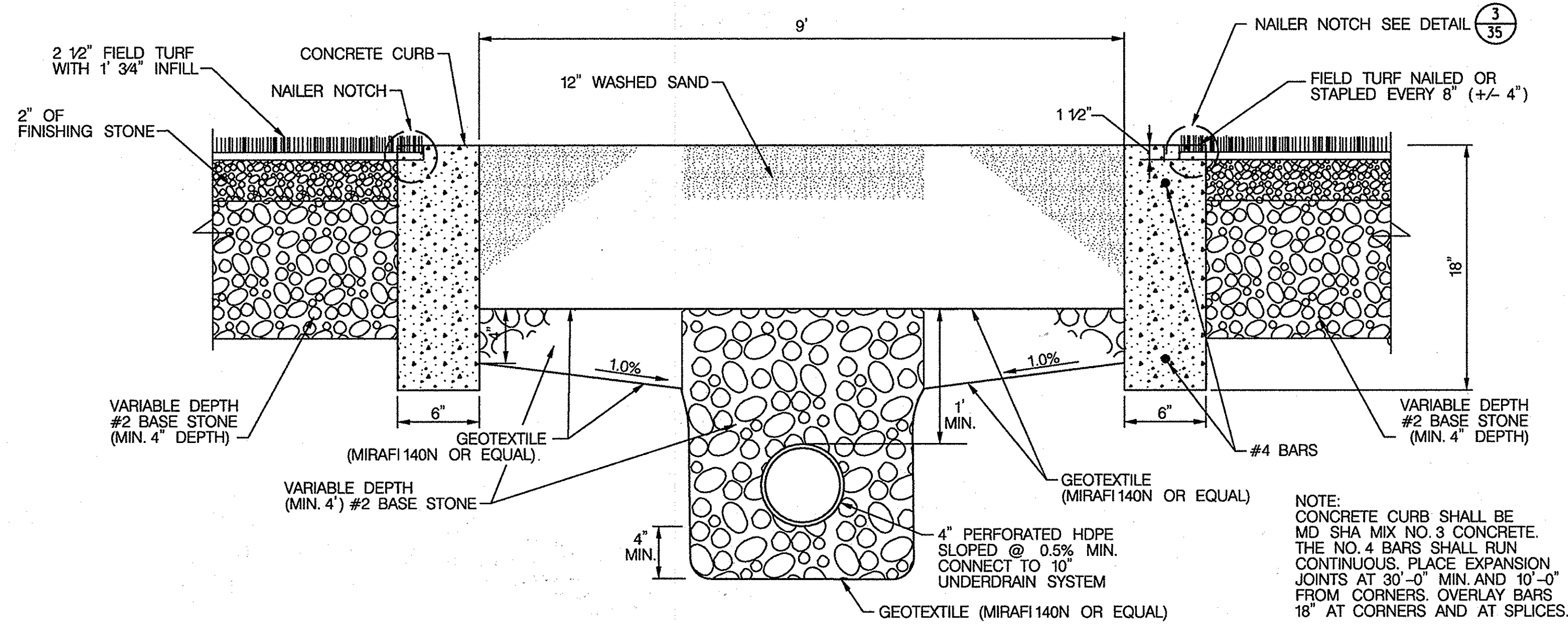
DES: DMT
 DRN: CDF
 CHK: DTM
 DATE: 04/2015

DTM NEW SHEET 4/2015
 BY NO. REVISION DATE

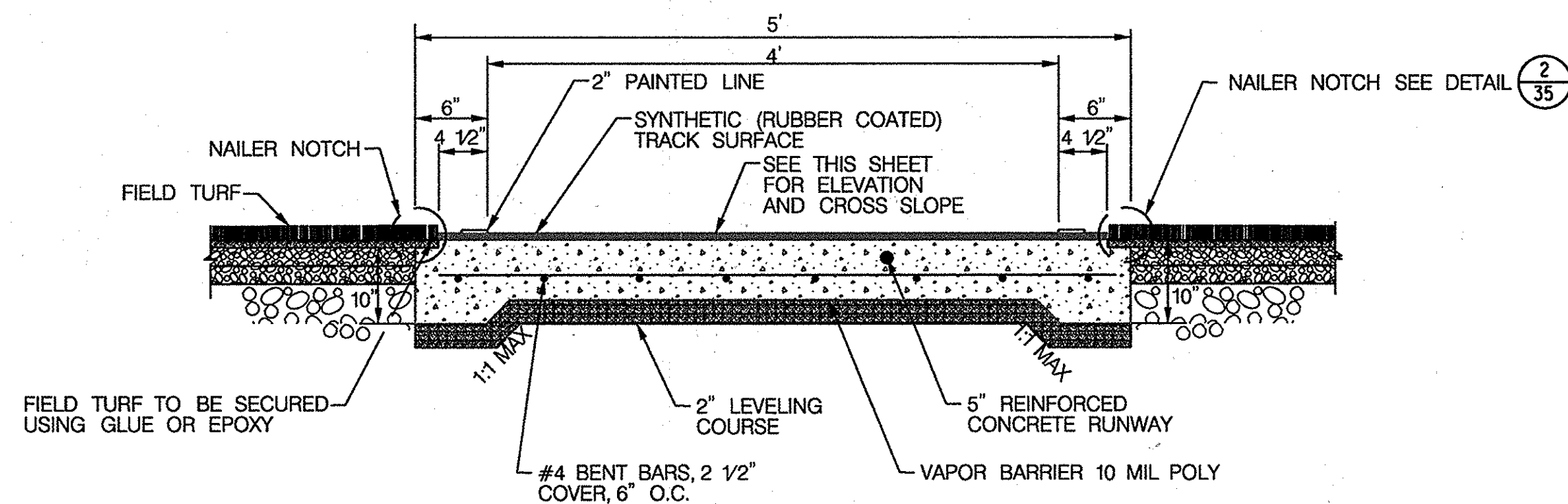
SITE DETAILS I
 SCALE MAP NO. BLOCK NO.

REVISED SITE DEVELOPMENT PLAN
 RIVER HILL HIGH SCHOOL
 FIELD IMPROVEMENTS
 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

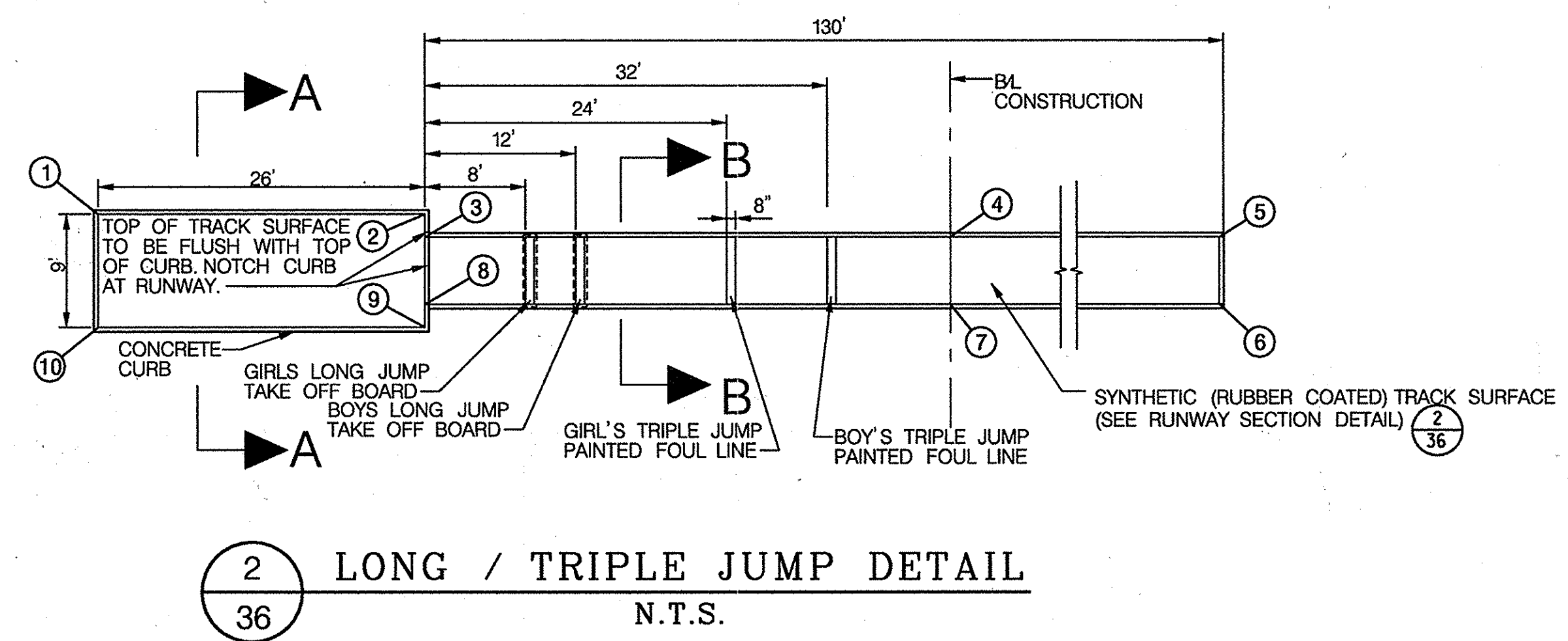
SCALE AS SHOWN
 SHEET C35 OF 40



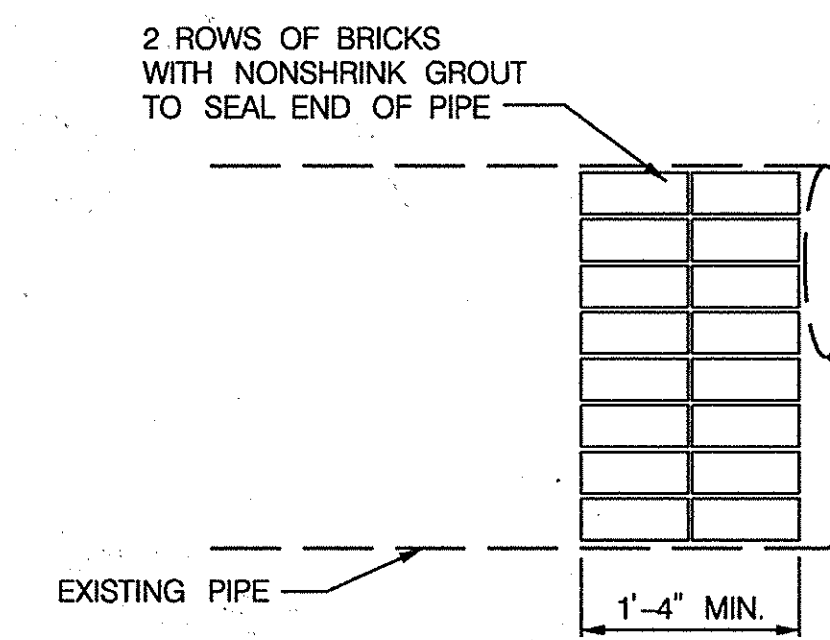
1 SECTION A-A JUMP PIT DETAIL
36 N.T.S.



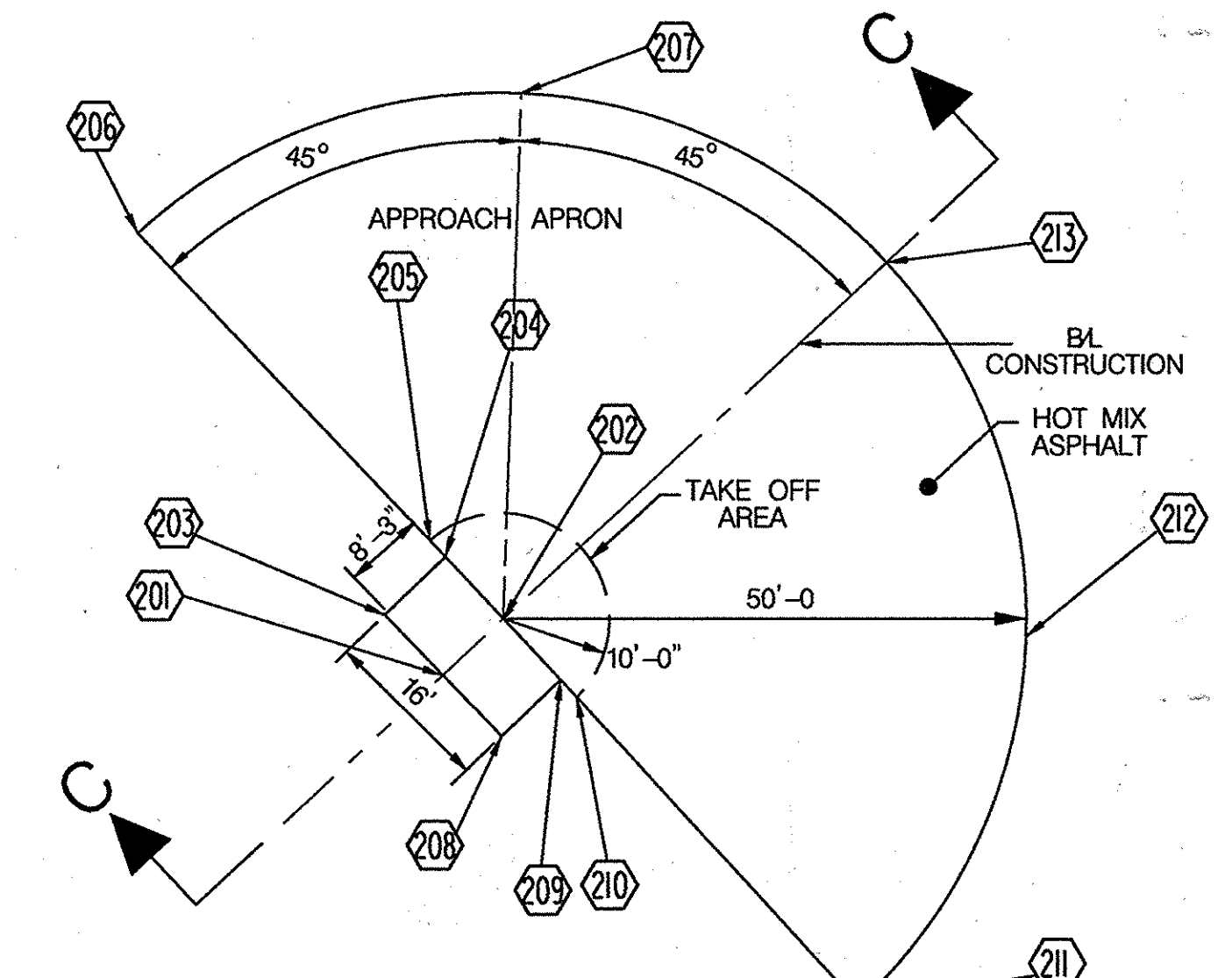
3 SECTION B-B THRU JUMP RUNWAY
36 N.T.S.



2 LONG / TRIPLE JUMP DETAIL
36 N.T.S.



4 PERMANENT BULKHEAD EXISTING PIPE
36 N.T.S.

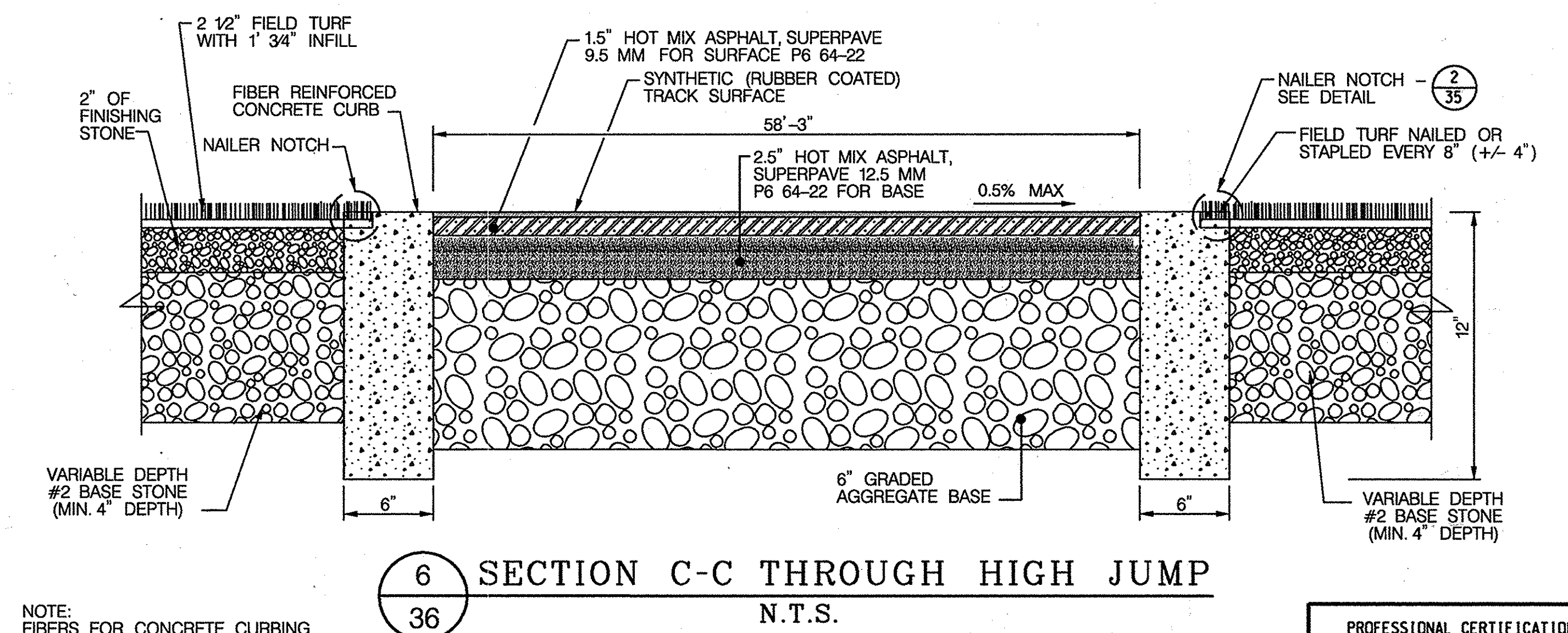


5 HIGH JUMP LAYOUT
36 N.T.S.

HIGH JUMP			
POINT	NORTHING	EASTING	ELEVATION
201	564,475.7218	1,332,090.6092	480.62
202	564,467.4718	1,332,090.6147	480.58
203	564,475.7271	1,332,098.6092	480.58
204	564,467.4771	1,332,098.6147	480.54
205	564,467.4785	1,332,100.6147	480.53
206	564,467.5049	1,332,140.6147	480.33
207	564,432.1399	1,332,125.9934	480.22
208	564,475.7166	1,332,082.6092	480.58
209	564,467.4666	1,332,082.6147	480.54
210	564,467.4652	1,332,080.6147	480.53
211	564,467.4388	1,332,040.6147	480.33
212	564,432.0931	1,332,055.2828	480.22
213	564,417.4719	1,332,090.6478	480.33

LONG/TRIPLE JUMP 'A'			
POINT	NORTHING	EASTING	ELEVATION
501	564,878.9086	1,332,013.3425	480.18
502	564,878.9258	1,332,039.3425	480.31
503	564,876.9258	1,332,039.3438	480.32
504	564,876.9595	1,332,090.3438	480.58
505	564,877.0118	1,332,169.3438	480.18
506	564,872.0118	1,332,169.3471	480.21
507	564,871.9595	1,332,090.3471	480.61
508	564,871.9258	1,332,039.3471	480.35
509	564,869.9258	1,332,039.3485	480.36
510	564,869.9086	1,332,013.3485	480.23

LONG/TRIPLE JUMP 'B'			
POINT	NORTHING	EASTING	ELEVATION
511	564,857.0118	1,332,169.3570	480.28
512	564,856.9946	1,332,143.3570	480.41
513	564,858.9946	1,332,143.3557	480.40
514	564,858.9595	1,332,090.3557	480.67
515	564,858.9086	1,332,013.3557	480.28
516	564,863.9086	1,332,013.3524	480.25
517	564,863.9595	1,332,090.3524	480.64
518	564,863.9946	1,332,143.3524	480.37
519	564,865.9946	1,332,143.3511	480.36
520	564,866.0118	1,332,169.3511	480.23



6 SECTION C-C THROUGH HIGH JUMP
36 N.T.S.

- NOTES:
- VARY LOCATION AND SIZE OF CONCRETE PADS WITH EQUIPMENT MFG. PRIOR TO CONSTRUCTION.
 - SEE 36 FOR BASE MATERIAL.
 - WORK POINTS ALONG POLE VAULT RUN WAY ARE APPLIED TO INSIDE LINE.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 5.20.15
CHIEF, DEVELOPMENT ENGINEERING DIVISION 4 DATE

[Signature] 5.26.15
CHIEF, DIVISION OF LAND DEVELOPMENT 4 DATE

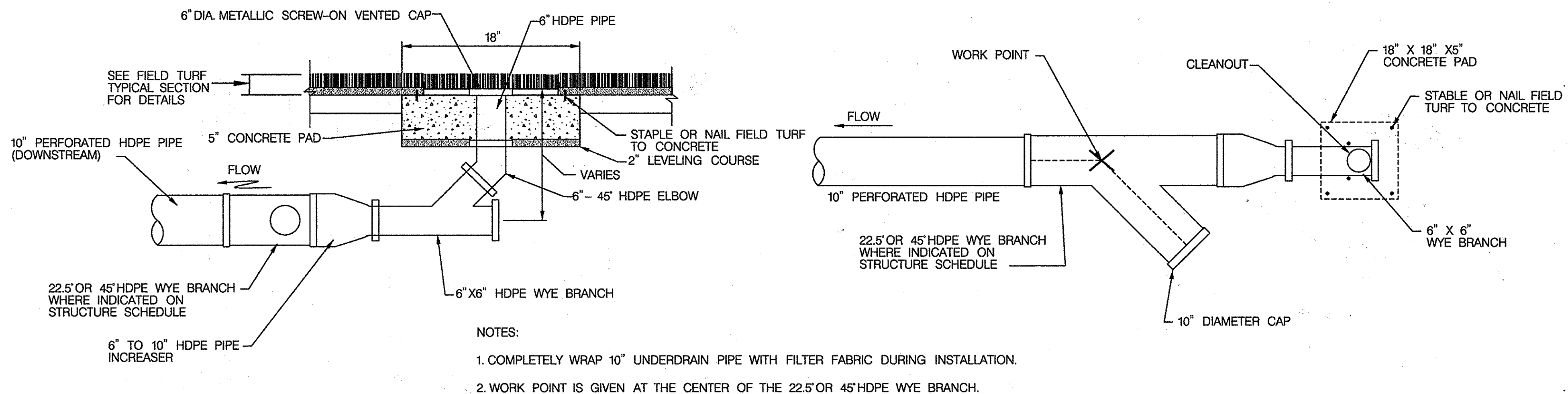
[Signature] 5.28.2015
ACTING DIRECTOR DATE

NOTE:
FIBERS FOR CONCRETE CURBING SHALL BE 1/2 TO 1-1/2 IN. LONG. USE THE FIBER MANUFACTURER'S RECOMMENDATIONS FOR THE QUANTITY OF FIBERS USED AND THEIR POINT OF INTERDUCTION INTO THE MIX.

PROFESSIONAL CERTIFICATION

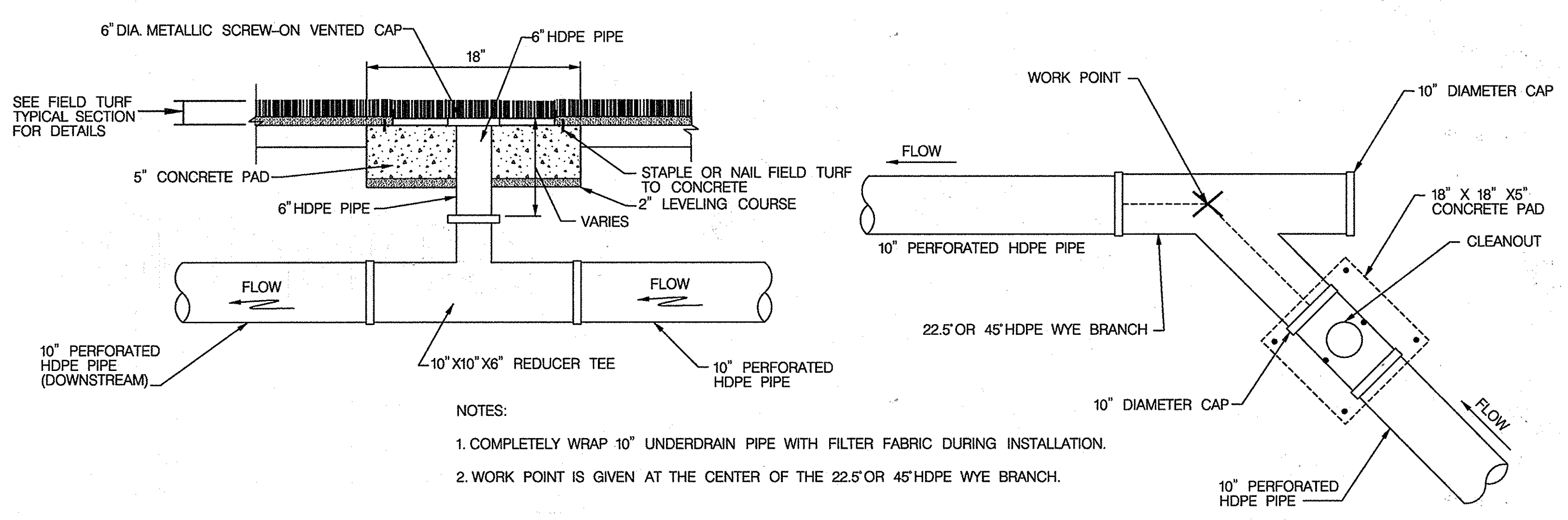
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 18186. EXPIRATION DATE: 8/28/2016."

HOWARD COUNTY PUBLIC SCHOOL SYSTEM HOWARD COUNTY, MARYLAND <i>[Signature]</i> 5/4/15 DIRECTOR, HOWARD COUNTY RECREATION AND PARKS	PREPARED BY URS 4 NORTH PARK DRIVE HUNT VALLEY, MARYLAND TEL: (410) 785-1220		DES: DMT				SITE DETAILS II	REVISED SITE DEVELOPMENT PLAN RIVER HILL HIGH SCHOOL FIELD IMPROVEMENTS 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET C36 OF 40
			DRN: CDF						



- NOTES:
1. COMPLETELY WRAP 10" UNDERDRAIN PIPE WITH FILTER FABRIC DURING INSTALLATION.
 2. WORK POINT IS GIVEN AT THE CENTER OF THE 22.5" OR 45" HDPE WYE BRANCH.

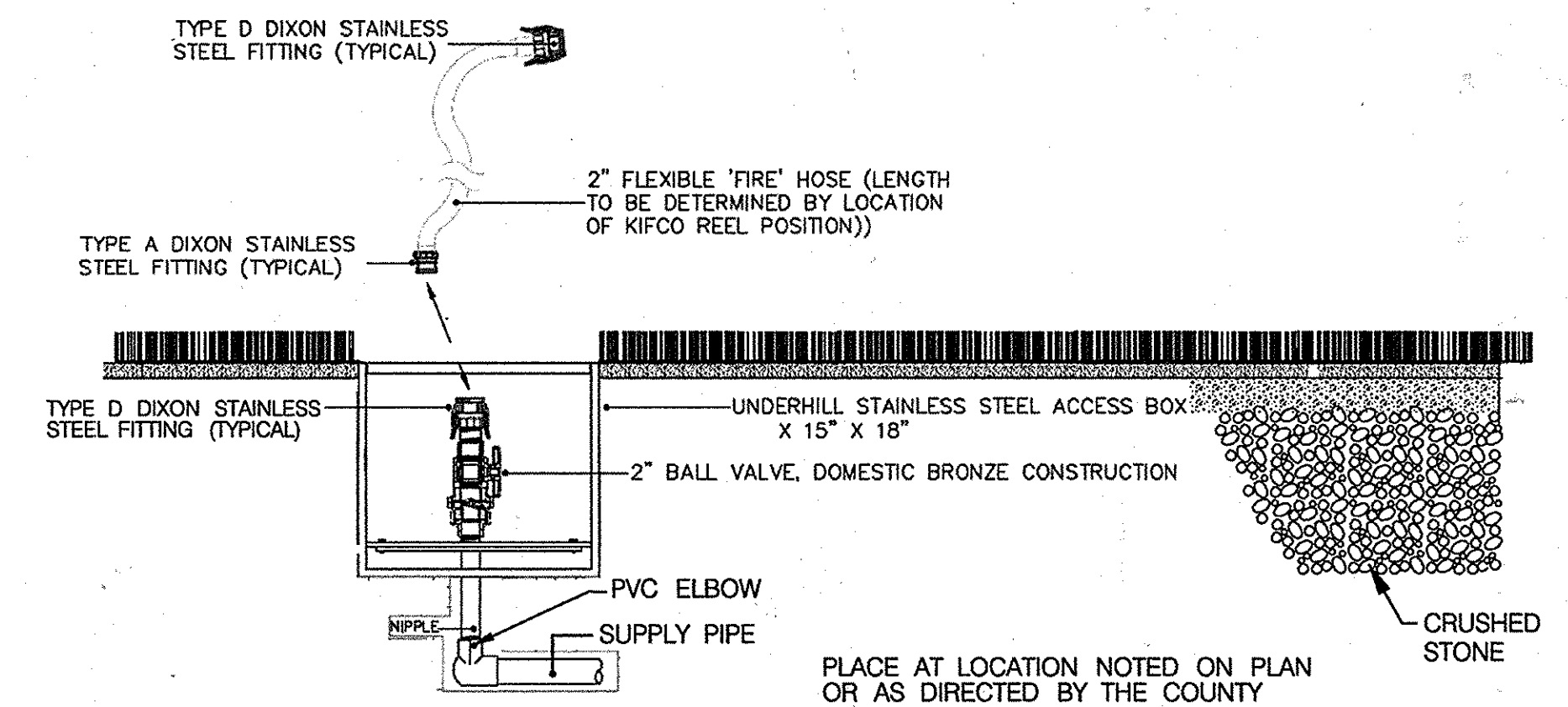
1A
37
CLEANOUT / WYE BRANCH DETAIL (C.O.)
(ONE DIRECTION)
N.T.S.



- NOTES:
1. COMPLETELY WRAP 10" UNDERDRAIN PIPE WITH FILTER FABRIC DURING INSTALLATION.
 2. WORK POINT IS GIVEN AT THE CENTER OF THE 22.5" OR 45" HDPE WYE BRANCH.

1B
37
CLEANOUT / WYE BRANCH DETAIL (C.O.)
(BI DIRECTIONAL)
N.T.S.

LOCATION POINT			STRUCTURE SCHEDULE			
NO.	NORTHING	EASTING	TYPE	Inv. In	Inv. Out	Top Elev.
CP-1	564,671.5348	1,332,204.1478	10" X 10" FLEX-SEAL RUBBER COUPLING	--	--	479.84
CP-2	564,671.3860	1,331,979.3351	10" X 10" FLEX-SEAL RUBBER COUPLING	--	--	480.00
CP-3	564,412.9719	1,332,090.6507	10" X 10" FLEX-SEAL RUBBER COUPLING	--	--	480.00
BD-1	564,822.2109	1,332,204.0481	22.5 DEG. BEND	--	--	479.72
BD-2	564,870.9452	1,332,183.8239	22.5 DEG. BEND	--	--	479.74
BD-3	564,897.1292	1,332,157.6052	22.5 DEG. BEND	--	--	479.75
BD-4	564,917.2889	1,332,108.8442	22.5 DEG. BEND	--	--	479.74
BD-5	564,917.2644	1,332,071.7899	22.5 DEG. BEND	--	--	479.71
BD-6	564,897.0402	1,332,023.0556	22.5 DEG. BEND	--	--	479.74
BD-7	564,870.8216	1,331,996.8716	22.5 DEG. BEND	--	--	479.70
BD-8	564,828.0871	1,331,979.2035	22.5 DEG. BEND	--	--	479.79
BD-9	564,501.9705	1,331,979.4774	22.5 DEG. BEND	--	--	479.78
BD-10	564,459.2947	1,331,997.1874	22.5 DEG. BEND	--	--	479.67
BD-11	564,433.1135	1,332,023.4032	22.5 DEG. BEND	--	--	479.70
BD-12	564,412.9596	1,332,072.1502	22.5 DEG. BEND	--	--	479.72
BD-13	564,412.9841	1,332,109.2005	22.5 DEG. BEND	--	--	479.73
BD-14	564,433.2025	1,332,157.9208	22.5 DEG. BEND	--	--	479.78
BD-15	564,459.4183	1,332,184.1019	22.5 DEG. BEND	--	--	479.75
BD-16	564,508.1653	1,332,204.2558	22.5 DEG. BEND	--	--	479.73
MH-1	564,759.5252	1,331,979.2611	STANDARD 4 FT. CIRCULAR MANHOLE (STD. MD-383.21)	474.67 / 474.58	471.68	480.00
MH-2	564,550.6171	1,331,979.4365	STANDARD 4 FT. CIRCULAR MANHOLE (STD. MD-383.21)	472.84	472.82	479.99
MH-3	564,554.9686	1,332,204.2249	STANDARD 4 FT. CIRCULAR MANHOLE (STD. MD-383.21)	476.67 / 476.67	476.57	479.80
MH-4	564,428.4223	1,332,044.2829	STANDARD 4 FT. CIRCULAR MANHOLE (STD. MD-383.21)	473.78	473.72	480.15
MH-5	564,428.4205	1,332,139.6866	STANDARD 4 FT. CIRCULAR MANHOLE (STD. MD-383.21)	474.62 / 474.34	474.32	480.10

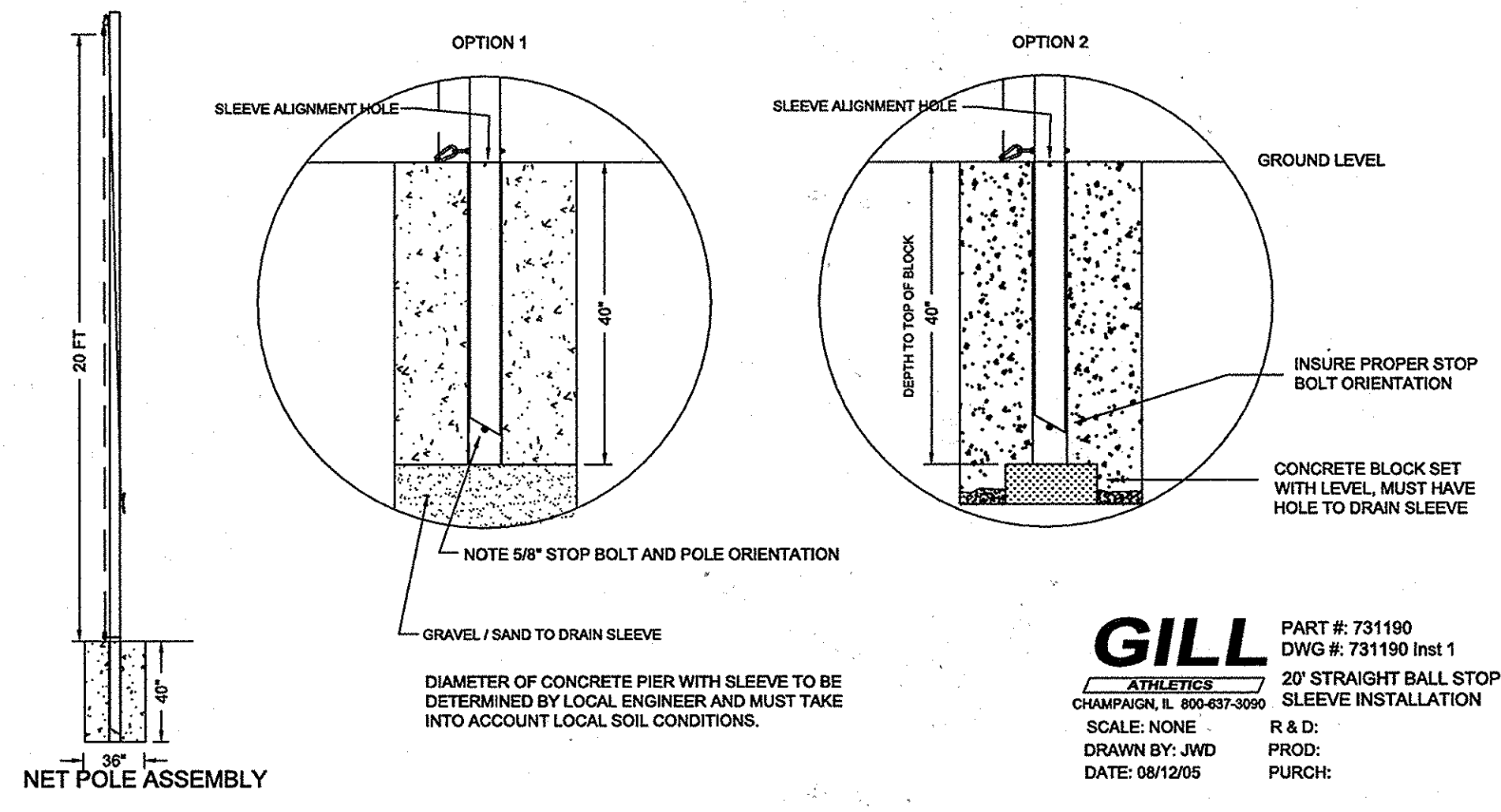


2
37
WATER REEL CONNECTION DETAIL
N.T.S.

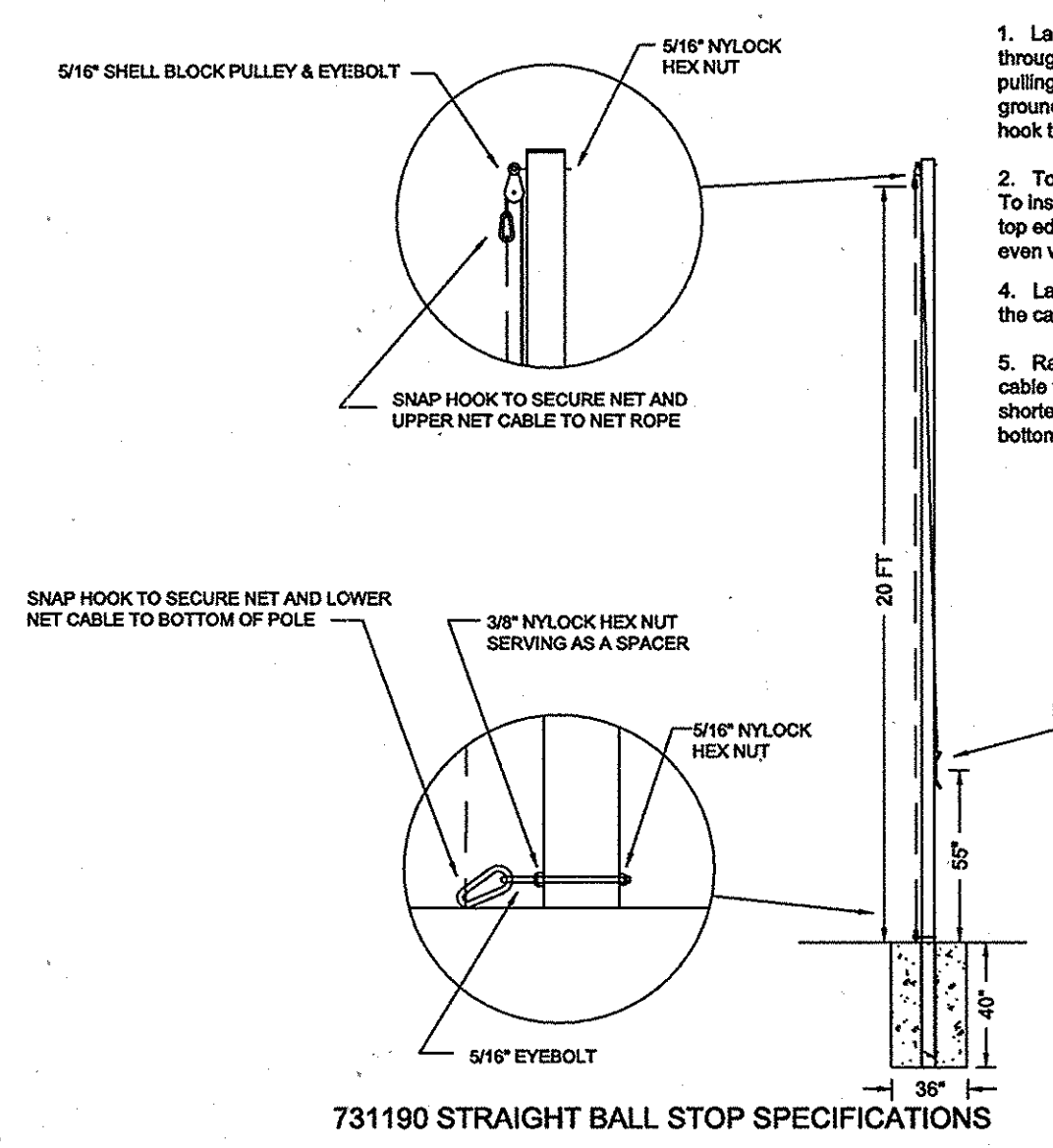
GROUND SLEEVE INSTALLATION

NOTE: The proper orientation of the 5/8" sleeve stop bolt determines the proper orientation of the net pole. Each sleeve has a 1/4" through hole at the top edge through which string could be tied as a visible reference to help insure proper alignment.

1. Dig holes for sleeves at staked locations. Size of holes are dependent on equipment used and must take into account soil conditions to support the poles.
2. Position and level gravel or a concrete block at the bottom of the hole so that the sleeve opening rests at the proper height at the surface.
3. Fix and support the sleeve in position with wire and/or sections of rebar to prevent sleeve movement during the concrete pour.
4. During the concrete pour, insure the alignment holes at the top opening of the sleeve remain properly aligned. These holes help orient the pole alignment pins at the bottom of the sleeves.



3
37
SAFETY NETTING DETAILS
N.T.S.



PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2016."

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5-20-15

[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 5-26-15

[Signature]
DIRECTOR
DATE: 5-28-2015

GILL ATHLETICS
PART #: 731190
DWG #: 731190 Inst 2
20' STRAIGHT BALL STOP NET POLE ASSEMBLY
SCALE: NONE
DRAWN BY: JWD
DATE: 08/12/05
R & D:
PROD:
PURCH:

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND

[Signature] 5/14/15
DIRECTOR, HOWARD COUNTY RECREATION AND PARKS

[Signature] 5/14/15
ASSISTANT MANAGER, GROUNDS SERVICES,
HOWARD COUNTY PUBLIC SCHOOL SYSTEM

PREPARED BY
URS
4 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
TEL: (410) 785-7220



DES:	DMT				
DRN:	CDF				
CHK:	DTM				
DATE:	04/2015	DTM	NEW SHEET	4/2015	
BY:	NO.	REVISION		DATE	

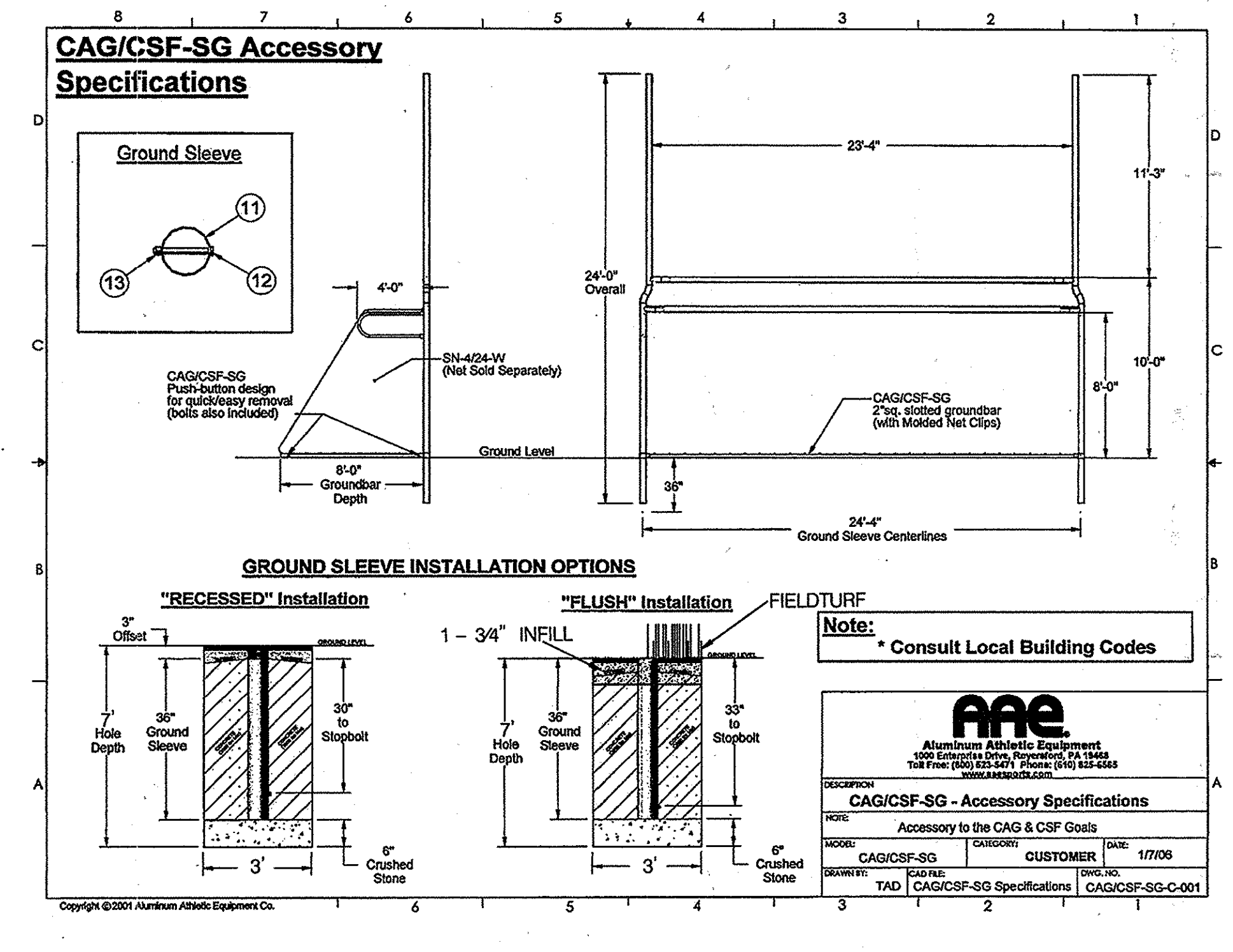
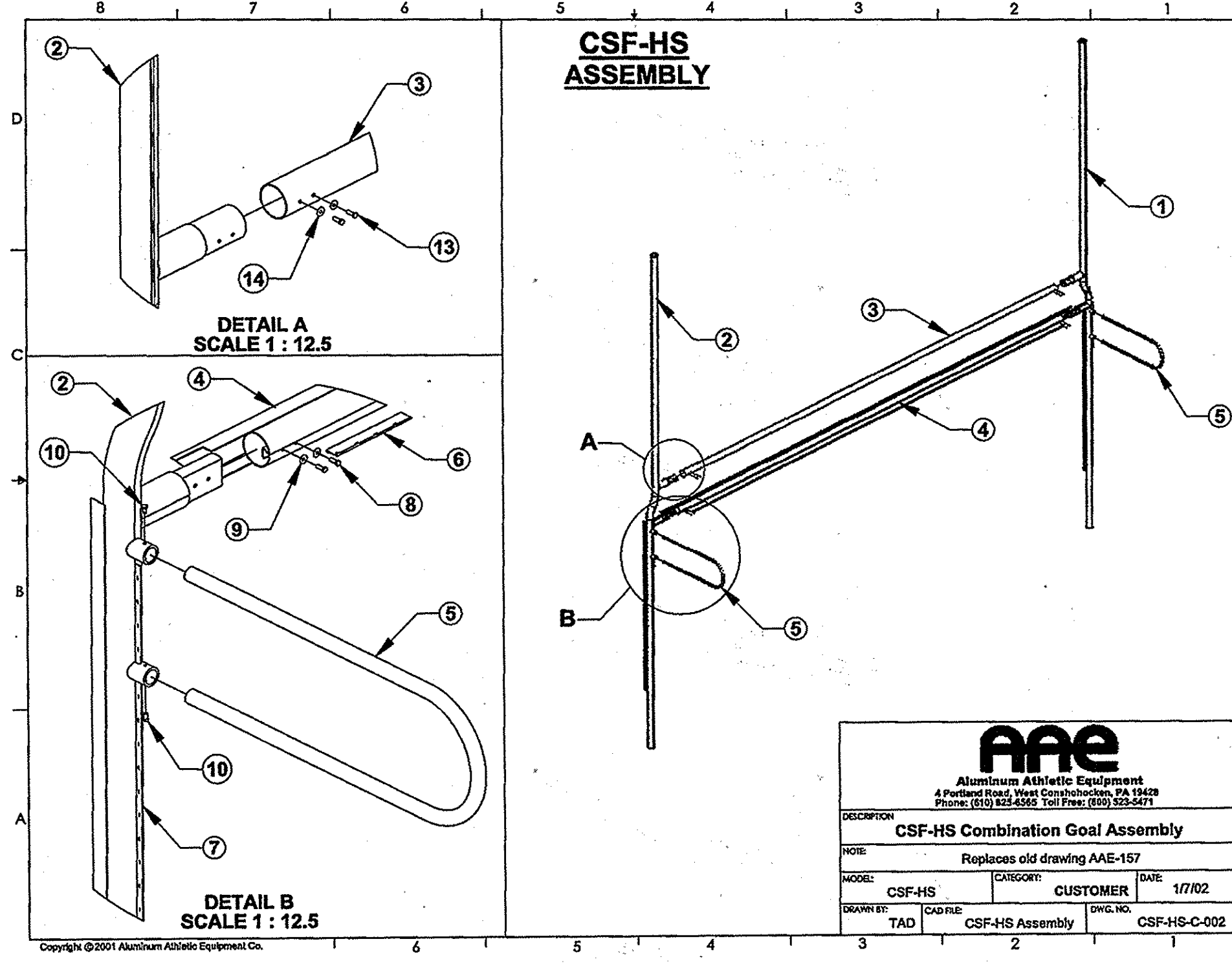
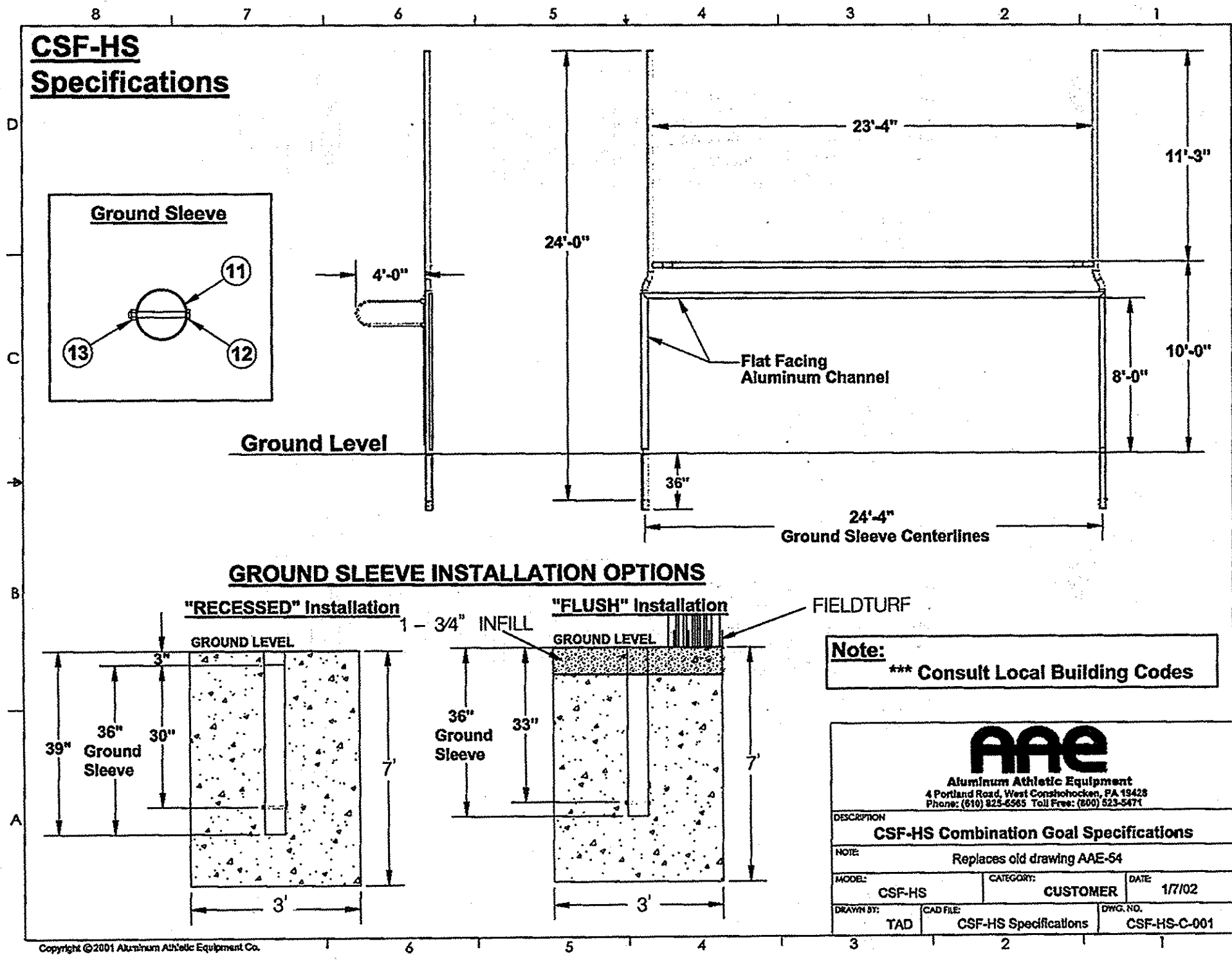
SITE DETAIL III

SCALE MAP NO. _____ BLOCK NO. _____

REVISED SITE DEVELOPMENT PLAN - RIVER HILL HIGH SCHOOL FIELD IMPROVEMENTS

5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 037 OF 40



1 COMBINATION GOAL SPECIFICATIONS
38 N.T.S.

2 GROUND BAR ATTACHMENT DETAILS
38 N.T.S.

**CAG-HS/CSF-HS
HIGH SCHOOL COMBINATION GOALS
PARTS LIST**

Part#	Item	Description	Qty.
1	Upright,LH	4.00 o.d. x .226 x 24' - aluminum extrusion.	2
*1A			
2	Upright,RH	4.00 o.d. x .226 x 24' - aluminum extrusion.	2
3	Crossbar (Football)	4.00" o.d x .125 x 22'- 4" 6061T6 - aluminum tube.	2
4	Crossbar (Soccer)	4.00" o.d. x .125 x 23'-0" - aluminum extrusion.	2
5	ISA Stay	International Net Stay, 1.688" o.d. x .125 x 43", 17" arc, 6061T6 aluminum.	4
6	PVC	PVC Net attachment extrusion, 22'-2" lg.	2
7	PVC	PVC Net attachment extrusion, 7'-6" lg.	4
8	Bolt	3/8"-16 x 1" stainless steel hex bolt	16
9	Washer	3/8 washer, SS	16
10	Bolt	3/8"-16 x 5/8" stainless steel hex bolt	8
11	Ground Sleeve	4.35" o.d. x .100 x 30" 6061T6 aluminum tube.	4
12	Stopbolt	1/2"-13 x 5" steel hex bolt, plated	4
13	Stopbolt Nut	1/2"-13 steel hex nut, plated	4

NOTE: GOAL POSTS SHALL BE WHITE IN COLOR.

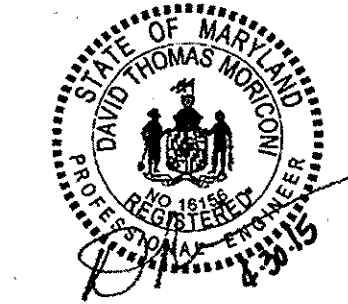
K:\AAE Data\Product Instructions & Parts Lists\CAG-HS\CAG-HS & CSF-HS Parts List.doc
Copyright © 2001 Aluminum Athletic Equipment Co.

PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016"

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Phil Clark 5-20-15
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Kate Seidman 5-26-15
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
ACTING N. A. Mackey Jr. 5-28-2015
 DIRECTOR DATE

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND
A. L. ... 5/14/15
 DIRECTOR, HOWARD COUNTY RECREATION AND PARKS
Jason ... 5/14/15
 ASSISTANT MANAGER, GROUNDS SERVICES, HOWARD COUNTY PUBLIC SCHOOL SYSTEM

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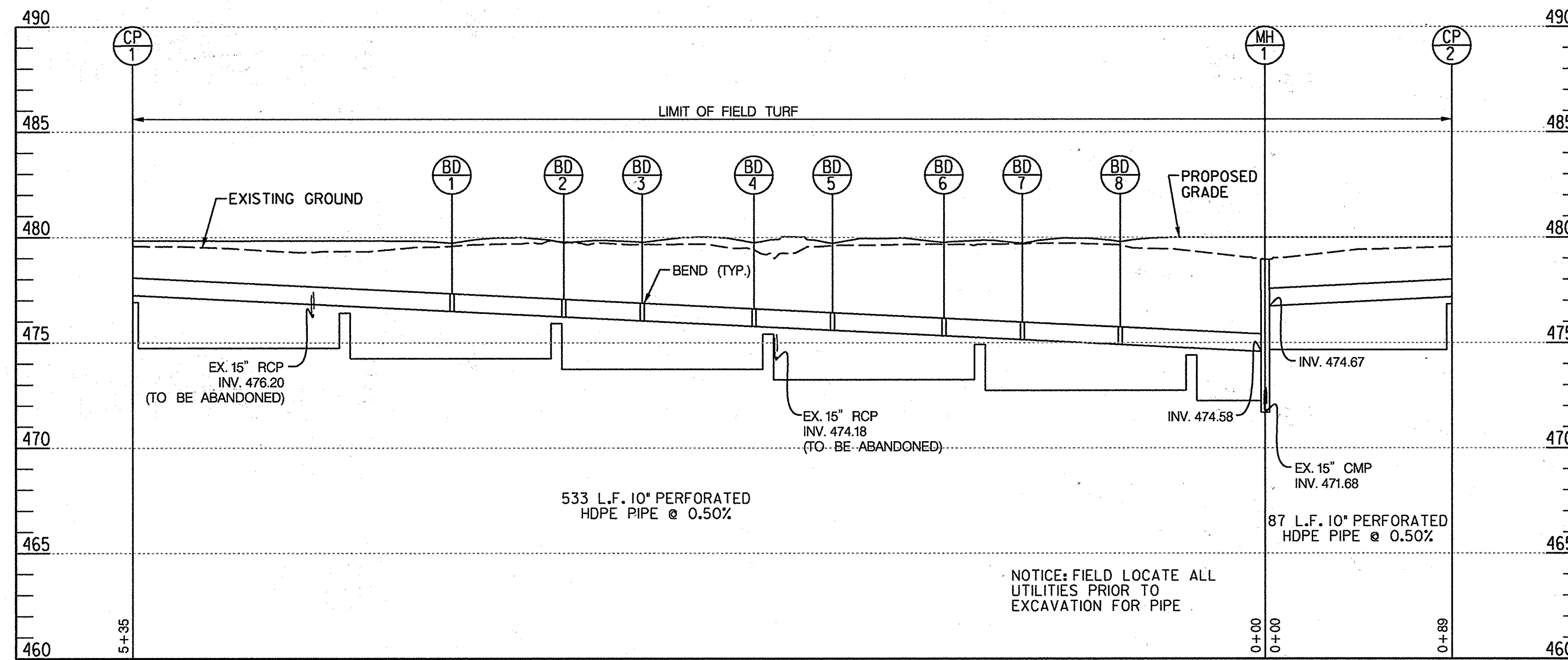


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DATE:	04/2015	DTM	NEW SHEET
BY:	NO.	REVISION	DATE

SITE DETAILS IV

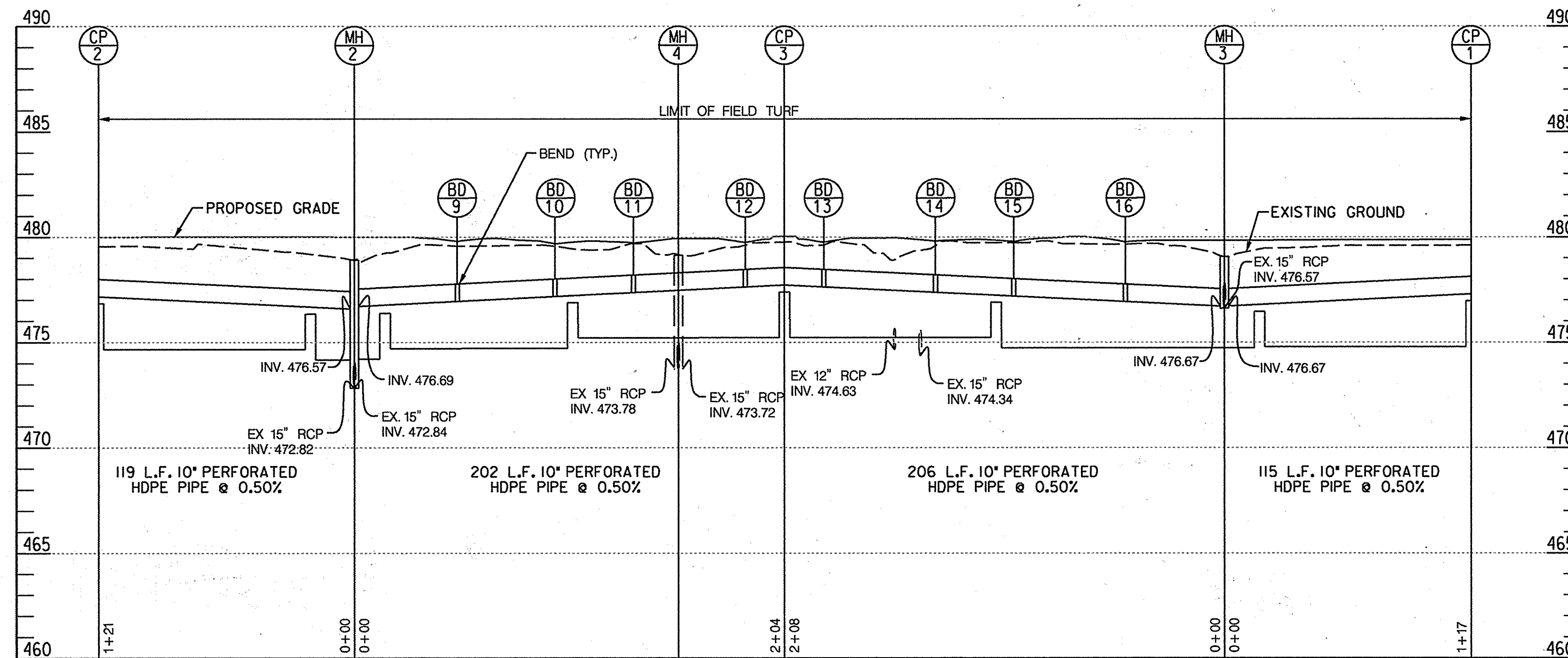
REVISED SITE DEVELOPMENT PLAN
RIVER HILL HIGH SCHOOL
FIELD IMPROVEMENTS
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET C38 OF 40



PIPE PROFILE (STA. 104+27, LT. TO STA. 104+27, RT.)

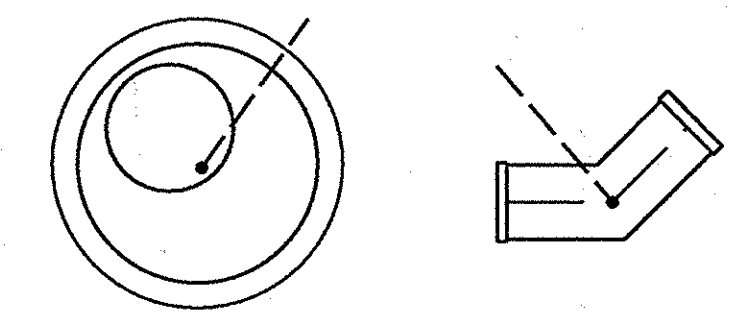
SCALE: HORZ. 1"=40'
VERT. 1"=4'



PIPE PROFILE (STA. 104+27, RT. TO STA. 104+27, LT.)

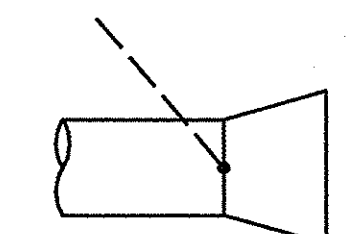
SCALE: HORZ. 1"=40'
VERT. 1"=4'

LOCATION POINT



MANHOLE

BEND



END SECTION

NOTE:
SEE SHEET NO.37 FOR STRUCTURE SCHEDULE.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 5-20-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
[Signature] 5-26-15
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
[Signature] 5-28-2015
DIRECTOR DATE

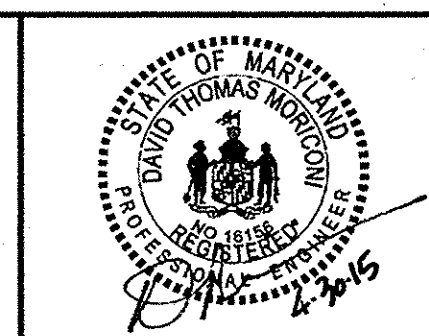
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HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND

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PIPE PROFILES

SCALE MAP NO. _____ BLOCK NO. _____

REVISED SITE DEVELOPMENT PLAN
RIVER HILL HIGH SCHOOL
FIELD IMPROVEMENTS

5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

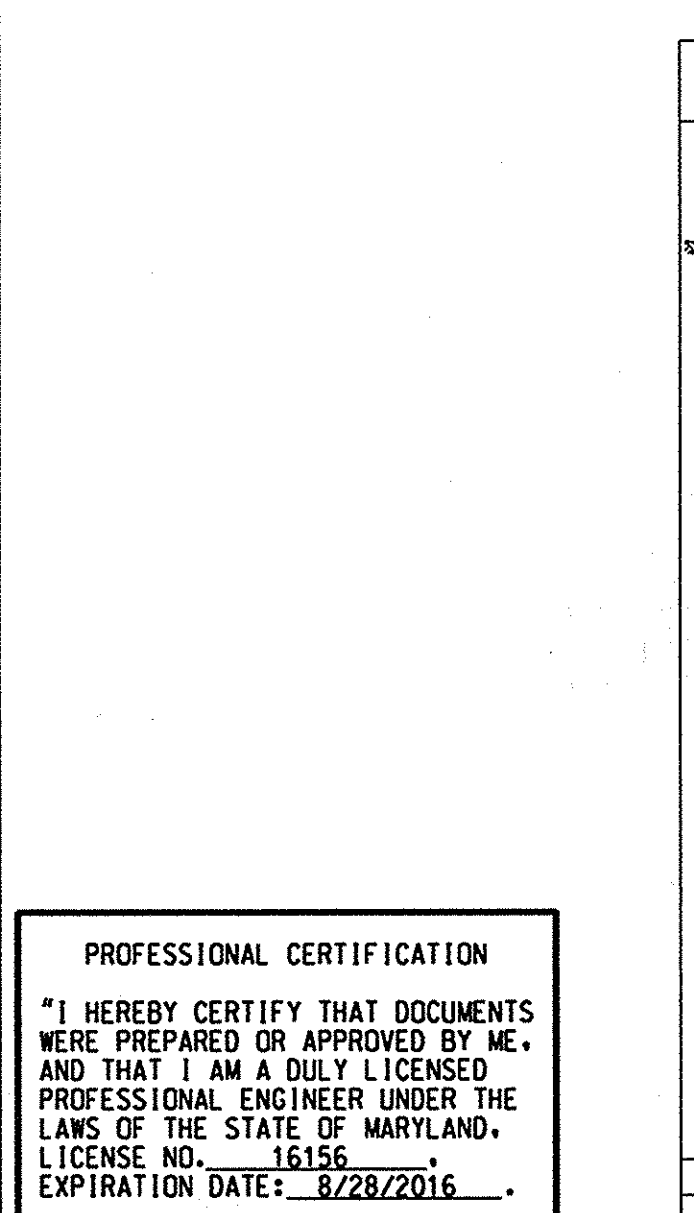
SHEET 39 OF 40

B-4-2. STANDARDS AND SPECIFICATIONS

FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS
Definition: The process of preparing the soils to sustain adequate vegetative stabilization.
Purpose: To provide a suitable soil medium for vegetative growth.

A. Soil Preparation
1. Temporary Stabilization
a. Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment...

B. Topsoiling
1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth.



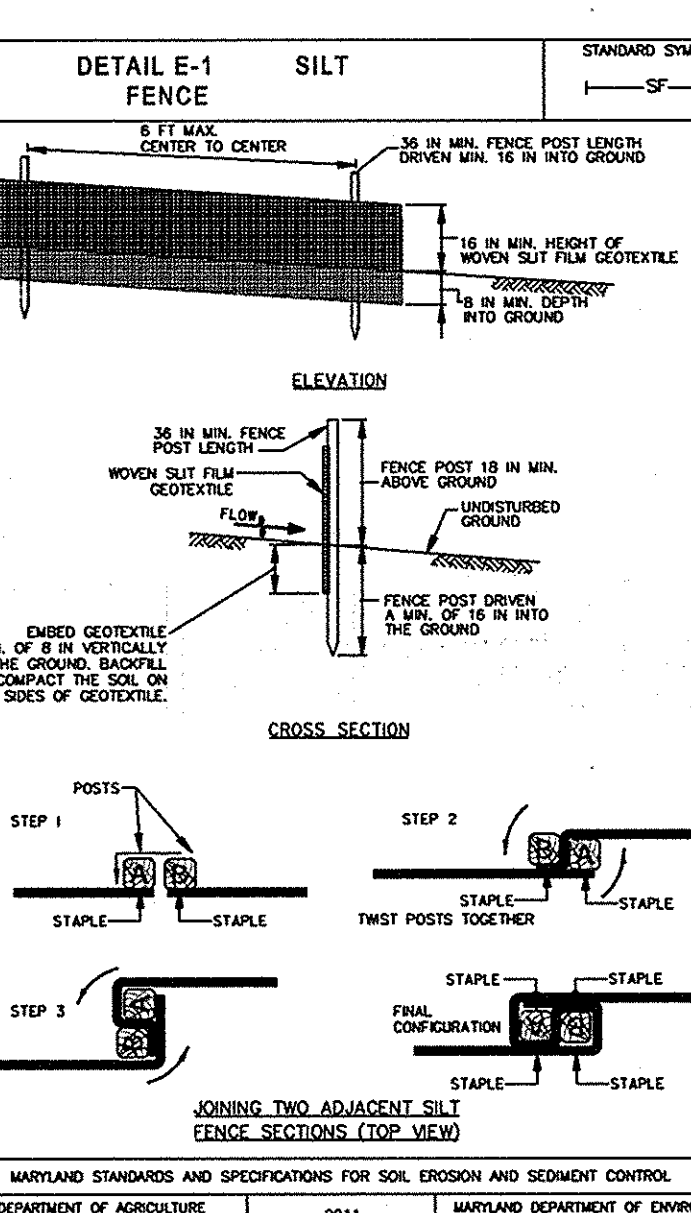
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B-4-3. STANDARDS AND SPECIFICATIONS

FOR SEEDING AND MULCHING
Definition: The application of seed and mulch to establish vegetative cover.
Purpose: To prevent disturbed soils from erosion during and at the end of construction.

A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to receiving by a recognized seed laboratory.

B. Mulching
1. Mulch Materials (in order of preference)
a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color.



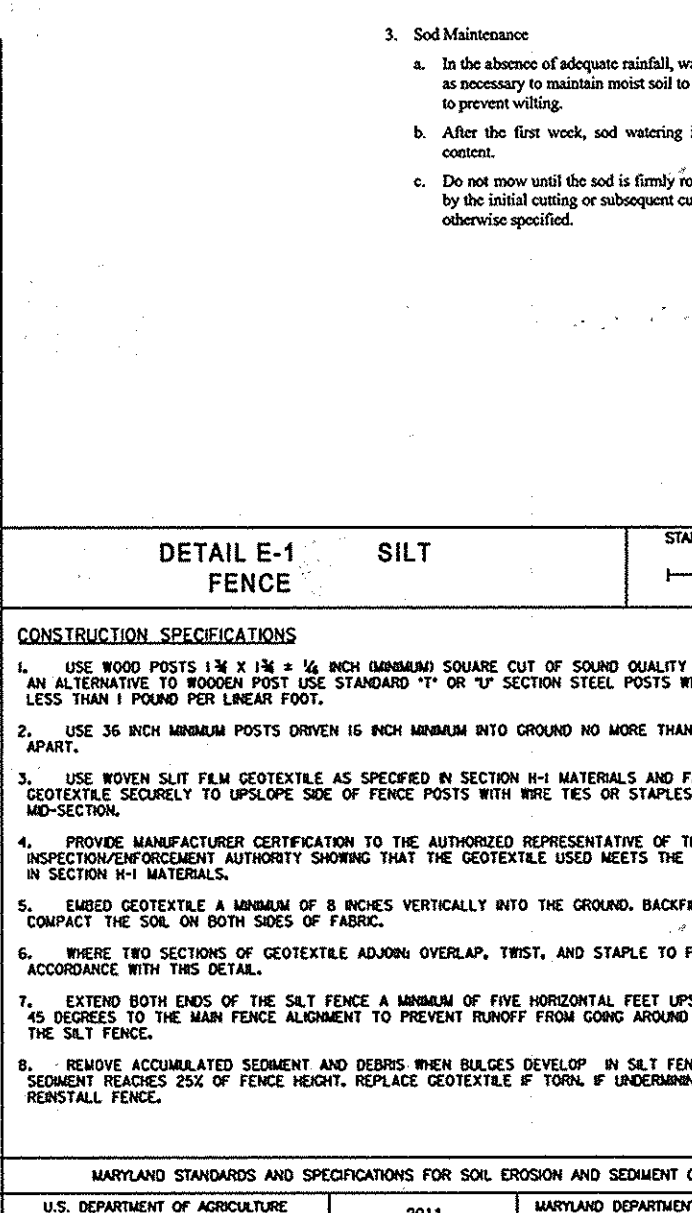
PREPARED BY URS
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HUNT VALLEY, MARYLAND
TEL: (410) 785-7220

B-4-4. STANDARDS AND SPECIFICATIONS

FOR PERMANENT STABILIZATION
Definition: To stabilize disturbed soils with permanent vegetation.
Purpose: To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone.

Table with 5 columns: No., Species, Application Rate (lb/acre), Seeding Depth, and Lime Rate. Rows include FOXTAIL MILLET and PEARL MILLET.



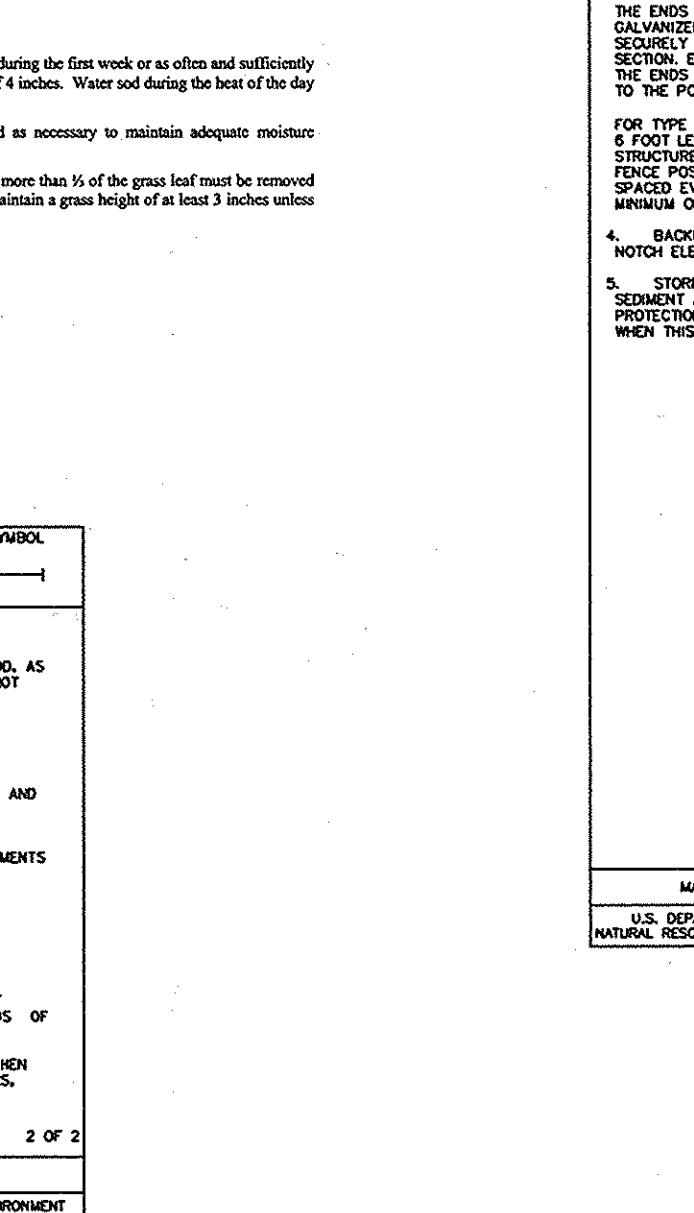
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B-4-4. STANDARDS AND SPECIFICATIONS

FOR TEMPORARY STABILIZATION
Definition: To stabilize disturbed soils with vegetation for up to 6 months.
Purpose: To use fast growing vegetation that cover on disturbed soils.

A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone.

Table with 5 columns: No., Species, Application Rate (lb/acre), Seeding Depth, and Lime Rate. Rows include FOXTAIL MILLET and PEARL MILLET.



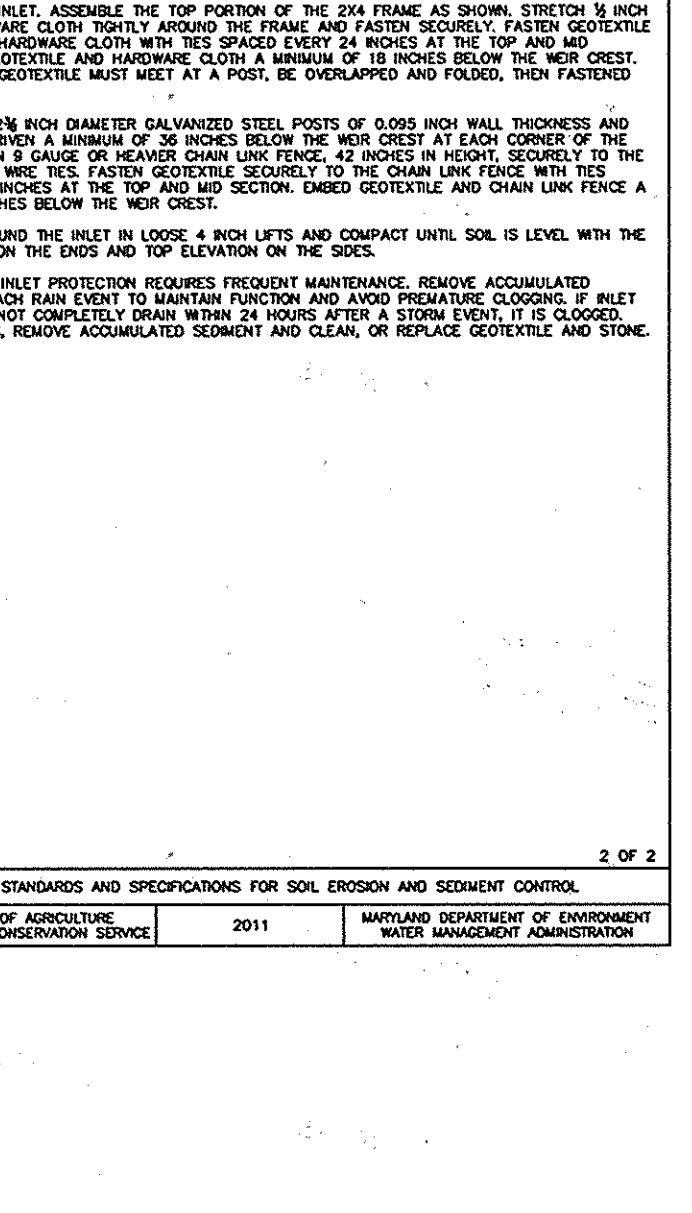
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B-4-4. STANDARDS AND SPECIFICATIONS

FOR TEMPORARY STABILIZATION
Definition: To stabilize disturbed soils with vegetation for up to 6 months.
Purpose: To use fast growing vegetation that cover on disturbed soils.

A. Seed Mixtures
1. General Use
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone.

Table with 5 columns: No., Species, Application Rate (lb/acre), Seeding Depth, and Lime Rate. Rows include FOXTAIL MILLET and PEARL MILLET.



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SEQUENCE OF CONSTRUCTION - GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AT (410) 489-7987 AT LEAST SEVEN (7) DAYS PRIOR TO ANY EARTH DISTURBANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE INSPECTOR.

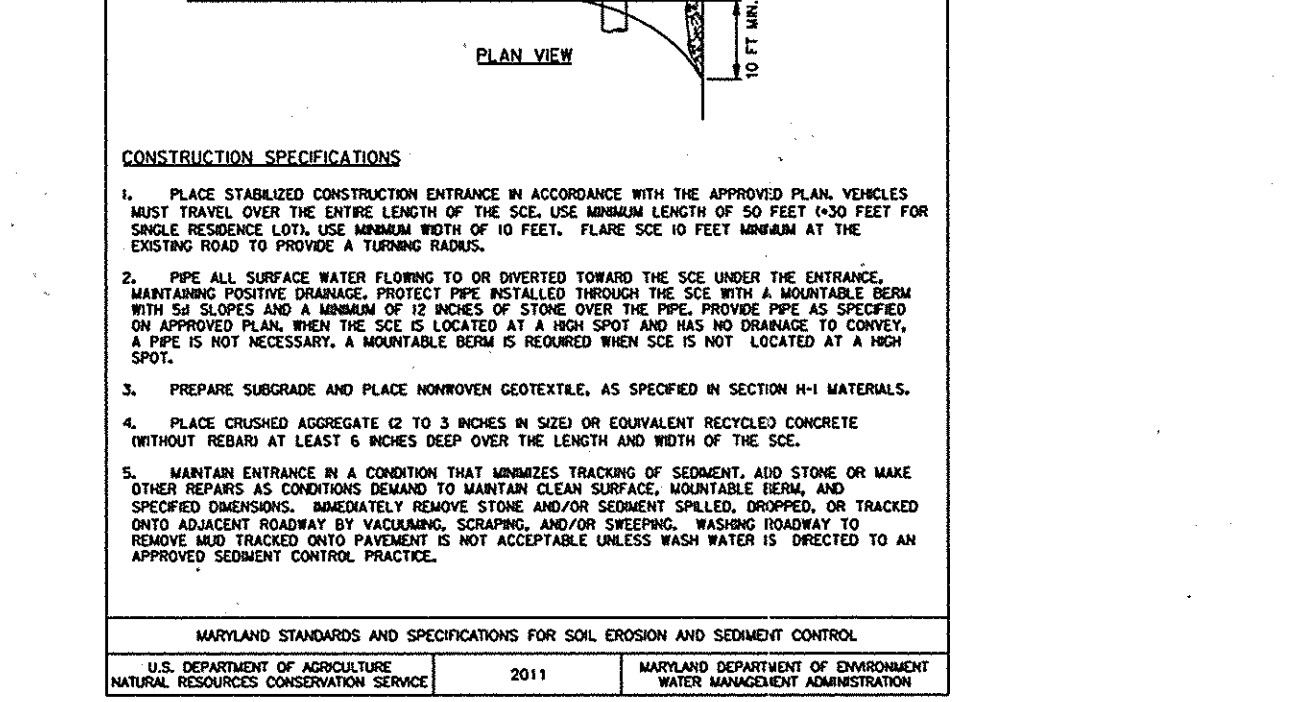
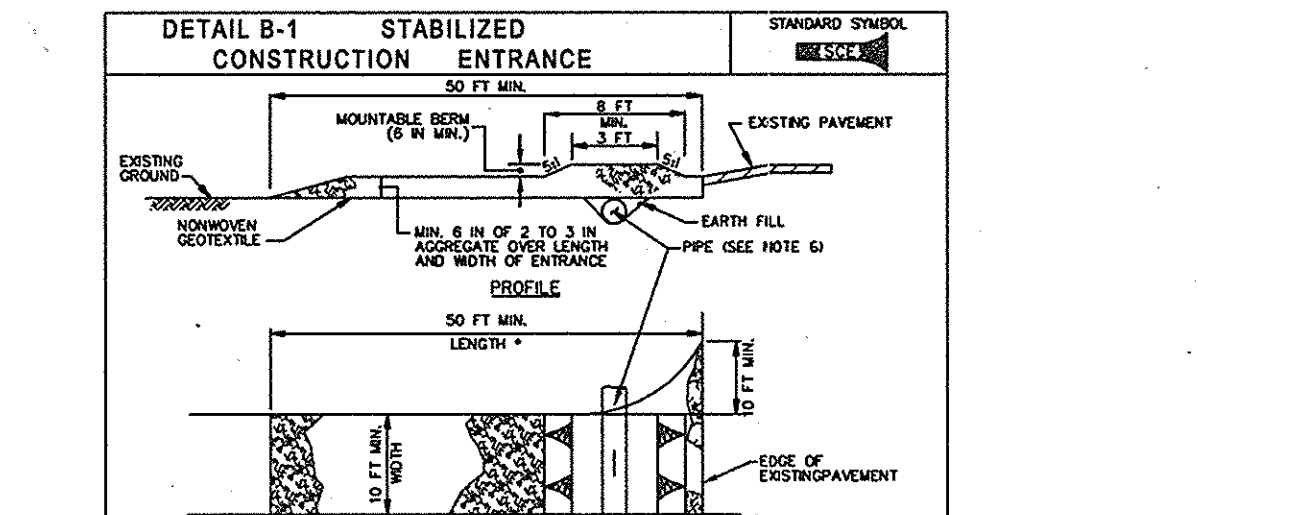
SEQUENCE OF CONSTRUCTION

- 1. OBTAIN THE GRADING PERMIT PRIOR TO CONSTRUCTION (1 DAY).
2. INSTALL THE SEDIMENT CONTROL MEASURES AS INDICATED. PROTECT THE EXISTING TRACK AS INDICATED ON PLAN (1 DAY).

NOTE: THE TIME LINE EXCLUDES WEATHER RELATED DELAYS.

SEDIMENT CONTROL-GENERAL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).



APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 5-20-15

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

DEVELOPER'S CERTIFICATION
'I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF THE ENVIRONMENT TRAINING PROGRAM FOR SEDIMENT CONTROL...

ENGINEER'S CERTIFICATION
'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.'

EROSION AND SEDIMENT CONTROL DETAILS AND NOTES
SCALE MAP NO. BLOCK NO.
DATE: 4/20/15

REVISED SITE DEVELOPMENT PLAN
RIVER HILL HIGH SCHOOL
FIELD IMPROVEMENTS
SCALE AS SHOWN
SHEET C90 OF 40

HOWARD COUNTY PUBLIC SCHOOL SYSTEM
HOWARD COUNTY, MARYLAND
DIRECTOR: HOWARD COUNTY RECREATION AND PARKS
ASSISTANT MANAGER: GROUND SERVICES, HOWARD COUNTY PUBLIC SCHOOL SYSTEM

DES: DMT
DRN: CDF
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DATE: 04/20/15
BY: NEW SHEET
REVISION

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SCALE MAP NO. BLOCK NO.
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