

# SITE DEVELOPMENT PLAN

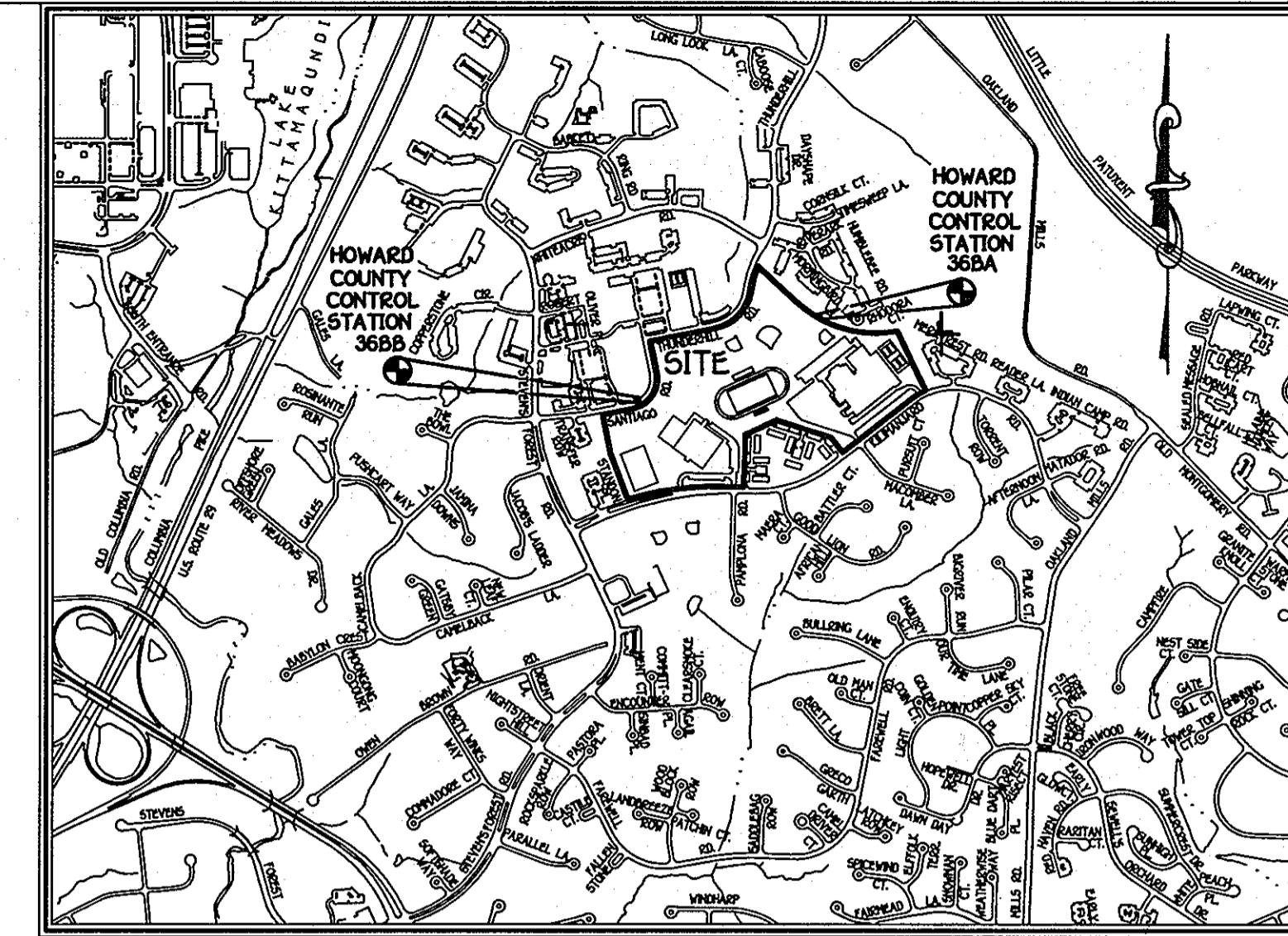
## COLUMBIA

# OAKLAND MILLS HIGH SCHOOL

### LOT 1

### VILLAGE OF OAKLAND MILLS

### SECTION 2 AREA 5



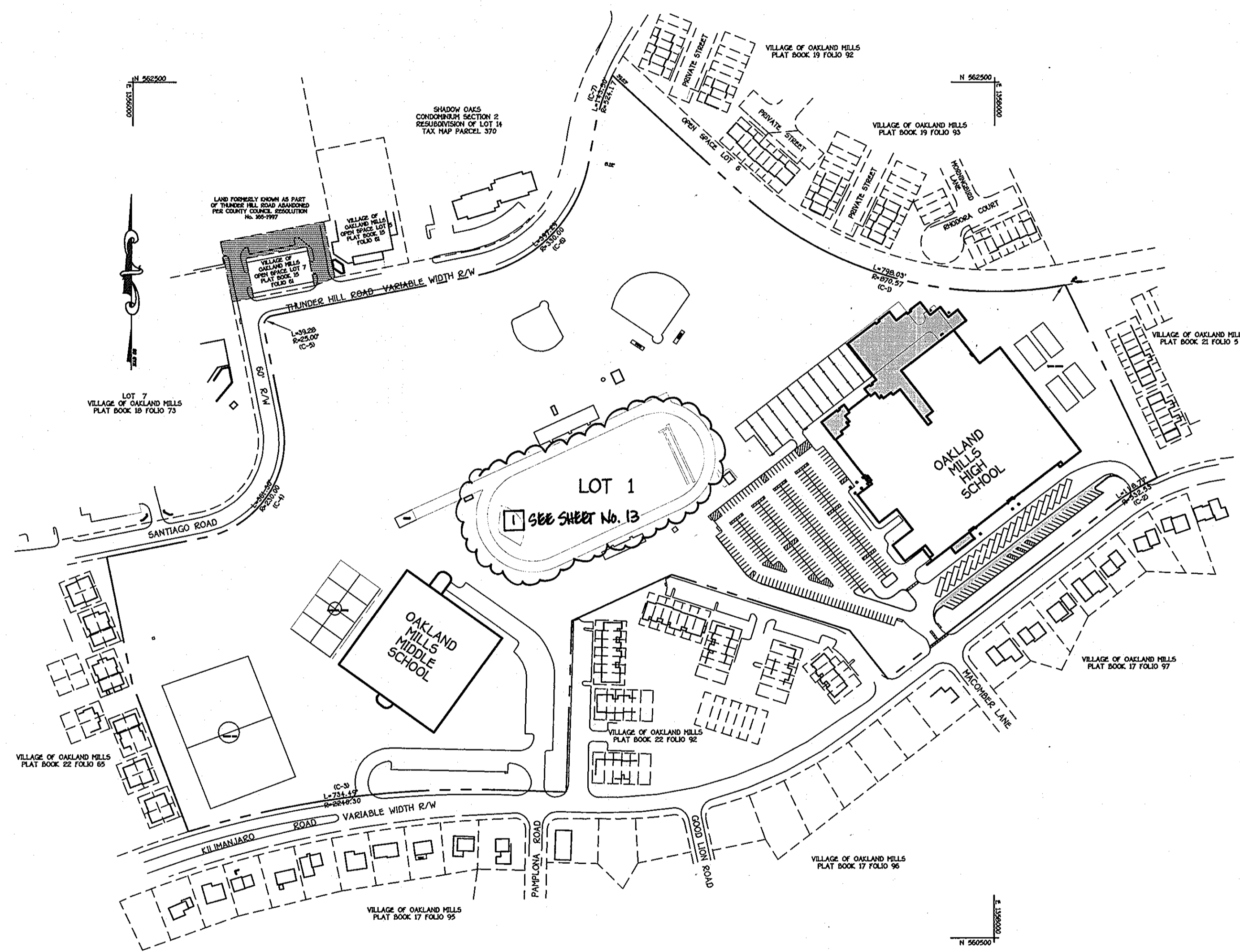
**VICINITY MAP**  
SCALE: 1" = 200'

SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	SITE DEVELOPMENT PLAN
4	SITE DETAILS
5	HANDICAPPED PLAN AND SOIL BORING LOGS
6	STORM DRAIN DRAINAGE AREA MAP
7	PRIVATE SEWER AND STORM DRAIN PROFILES
8	GRADING AND SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL NOTES AND DETAILS
10	LANDSCAPE PLAN
11	DETAIL SHEET
12	SITE PLANS 1
13	SITE ANALYSIS DATA

- 13 SITE ANALYSIS DATA**
- General Site Data:
    - A. Present Zoning: NT (NewTown)
    - B. Proposed use of site or structure: Institutional (Public School)
    - C. Public water and sewer to be utilized.
  - Area Tabulation:
    - A. Total project area: 48.904 Ac.
    - B. Area of this plan submission: 3.67 Ac. is the limit of submission and grading disturbance for the construction of the high school addition and associated parking.
    - C. Impervious Coverage:
      - Existing high school: 152,590 sq.ft.
      - Proposed additions: 33,990 sq.ft.
      - Proposed addition alternatives: 7,925 sq.ft.
      - Paved areas (parking, and walkways): 0.53 Ac.
  - Open Space Data:
    - A. Non-credited open space recorded in Final Development Plan Phase 102-A:
      - Criteria for public schools parking, travelways and driveways = 5.97 Ac.
    - B. Non-credited open space provided for public schools parking, travelways and driveways = 5.65 Ac.
  - Parking Space Data:
    - A. Number of parking spaces required by zoning regulations: N/A
    - B. Total number of parking spaces provided on site: 340 (including handicap parking per the Public School Systems Parking Requirements)
    - C. Number of Handicapped parking spaces provided: 0

**BUILDING COVERAGE**

Existing Middle School	72,900 sq.ft. = 1.67 Ac.
Existing High School	195,996 sq.ft. = 4.50 Ac.
<b>Total</b>	<b>5.17 Ac.</b>
Percentage Of Coverage	5.17 Ac. = 10.56%
Existing Middle School	72,900 sq.ft. = 1.67 Ac.
Existing High School	195,996 sq.ft. = 4.50 Ac.
Prop. Addition	7,925 sq.ft. = 0.18 Ac.
Prop. Addition Alternates	7,925 sq.ft. = 0.18 Ac.
<b>Total</b>	<b>6.35 Ac.</b>
Percentage Of Coverage	6.35 Ac. = 13%



**LOCATION PLAN**  
SCALE: 1" = 200'

**LEGEND**

Description	Symbol
Existing Contour	- - - 32.2
New Contour	— 32.2
Existing Curb Line	— 32.25
New Curb Line & Flow Line Elev.	— 32.25
Existing water Line	— 6" S
New water Line	— 6" S
Existing Fire Hydrant	— 6" S
Existing Sewer Line	— 6" S
New Sewer Line	— 6" S
Existing Storm Drain Line	— 12" HDPE
New Storm Drain Line	— 15" HDPE
New Sidewalk	— 7" & 4"
Existing Tree & Tree Line	—
New Tree Line	—
Existing Street Light to remain	—
New Pole Light. See Electrical Plans	—
Number of Parking Spaces	— 15
Fence Line	— X-X-X
Limit of Grading Disturbance (L.O.D.)	—

**General Notes**

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSA standards and specifications if applicable.
- The contractor shall notify the Bureau of Engineering/Construction Inspection Division at 410-313-1800 at least five working days prior to start of work.
- The contractor shall notify Hiss Utility at 1-800-257-7777 at least 48 hours prior to any digging and excavation work.
- Project Background: Location: Tax Map No. 36, Grid S, Parcel 336
- Zoning: This project is zoned NT "open space credited and non-credited" per the 10/18/93 comprehensive zoning plan.
- Election District: 30A11
- Section/Area: 2/5
- Site Area: 48.904 Ac.
- Traffic control devices, markings and signing shall be in accordance with the latest edition of the manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to placement of any asphalt.
- All plan dimensions are to the face of curb or face of building unless otherwise noted. Dimensions are measured perpendicular or radial between items unless otherwise noted.
- Existing topography and features were derived from survey by Fisher, Collins and Carter Inc. and Harford Aerial Surveys Inc. Dated July 6, 2001.
- Coordinates are based on NAD 83 Maryland Coordinates System as projected by Howard County Geographic Control Station 366A. N 25213.927 E 135620.675 ELEV. 417.46
- Public water and sewer is to be provided for this project. Contract: 337 W & S
- Sewer/water management is utilized by a dry well that will be privately owned and maintained by the Howard County Public School System.
- All on-site storm drains under this site development plan are private.
- The existing utilities shown hereon were derived from available public records. The contractor must dig test pits by hand at all utility crossings and connection points to verify the exact location.
- All proposed ramps shall be in accordance with current A.D.A. Standards. Maximum sidewalk cross slope shall be two percent. Provide a (5'x5') five foot by five foot level landing (max. slope 2% at the top and bottom of all ramps and building entrances and exits.
- All driveways and parking to be owned and maintained by the Howard County Public School System.
- Any damage to County and or State owned right-of-way to be corrected at the contractor's expense.
- Trench bedding for storm drains structures shall be in accordance with Howard County Standard G2.01 Class C bedding unless otherwise noted.
- Gutter pan of curbs shall be pitched to conform to the adjacent drainage patterns of the adjoining paving for vehicular use. See detail.
- All curb fillets are 5' radius unless noted otherwise. Curb spot elevations along curb line are at the flow line unless noted otherwise.
- For details of building profile, parking, road section, handicap, curb and gutter see sheet 4
- There are no known grave sites or cemeteries on this site.
- Other topics related to this site:
  - Soils Analysis prepared by EBA Engineering Inc. Dated January, 2002.
  - All outside lighting shall comply with Zoning Regulations Section 134 which requires lights to be installed to direct/reflect light downwards and inwards on the site and away from all public streets and residential areas.
  - Existing water meter to remain. The building shall be equipped with an automatic fire prevention sprinkler system.
  - There are no wetlands within the limits of disturbance per a signed and sealed wetlands certification prepared by Fisher, Collins, and Carter Inc. dated March 7, 2002.
  - This project shall be in accordance with the Amended Final Development Plan Criteria Phase 102-A recorded in Plat Book 1465-1467.
  - This Project is recorded among the land records in Howard County, Maryland in Plat Book 21 Folio 15 and 16.
  - 27. Previous DPZ file numbers: VP91-60, SDP91-34, F71-20, SDP71-62, WP93-33, WP99-29, and SDP01-51 (correct).
  - 28. This project is exempt from the requirements of Section 16.1200 of the Howard County Code for Forest Conservation because this site is part of a Preliminary Development Plan which received approved prior to 12/31/92.
  - 29. Apply asphalt erosion sealer to existing parking lot and bus loop paving prior to restriping.
  - 30. The Planning Board granted approval to building additions and parking lot expansion on May 30, 2002.
  - 31. The activities proposed in the building addition areas are a weight room, dance room, ROTC, art studio, classrooms, graphic communications and a fabrication/production lab.

2	ADDED SHEETS 12 & 13	5-11-13
1	REVISED SHEET INDEX	7/12/12
NO.	REVISION	DATE

**ENGINEER'S CERTIFICATE**

I hereby certify that this plan for Erosion and Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

*[Signature]*  
Signature of Engineer  
6/19/12  
Date

Reviewed For Howard County Soil Conservation District And Meets Technical Requirements.  
*[Signature]*  
6/27/12  
Date

**DEVELOPER'S CERTIFICATE**

"I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary."

*[Signature]*  
Signature of Developer  
6-19-12  
Date

Approved: This Development Is Approved For Erosion And Sediment Control By The Howard County Soil Conservation District.  
*[Signature]*  
6/27/12  
Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
Director - Department of Planning and Zoning  
7/5/12  
Date

*[Signature]*  
Chief, Division of Land Development  
7/6/12  
Date

*[Signature]*  
Chief, Development Engineering Division  
7/11/12  
Date

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention: Cathleen Young

TCA Architects  
2661 Riva Road, Suite 120  
Annapolis Maryland 21401  
301-261-8700

Address Chart

Parcel Number	Street Address
336	9410 KILIMANJARO ROAD

PROJECT: OAKLAND MILLS HIGH SCHOOL SECTION/AREA: 2/5 PARCEL: 336

DEED REF.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
590/12	9	NT	36	SIXTH	6066.03

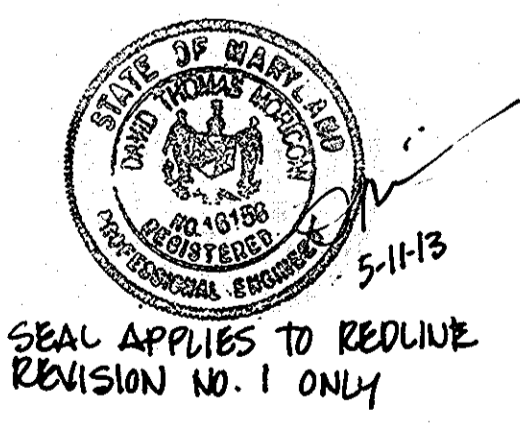
WATER CODE: E 05 SEWER CODE: 5414400

PLAT RECORDATION REFERENCE  
PLATBOOK 21 FOLIO 15 AND 16

TITLE SHEET  
COLUMBIA  
OAKLAND MILLS HIGH SCHOOL  
LOT 1  
VILLAGE OF OAKLAND MILLS  
SECTION 2 AREA 5  
BUILDING ADDITION AND  
PARKING LOT ADDITION

TAX MAP No.: 36 PARCEL No.: 336  
SIXTH ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: 3 MAY 2002  
BUILDING PERMIT/CD REVIEW: 14 JUNE 02

"BID AND CONSTRUCTION 1 JULY 02"  
SHEET 1 OF 13 [1]



**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY  
DATE: 5/30/12  
[Signature]

SEAL APPLIES TO REDLINE REVISION NO. 1 ONLY

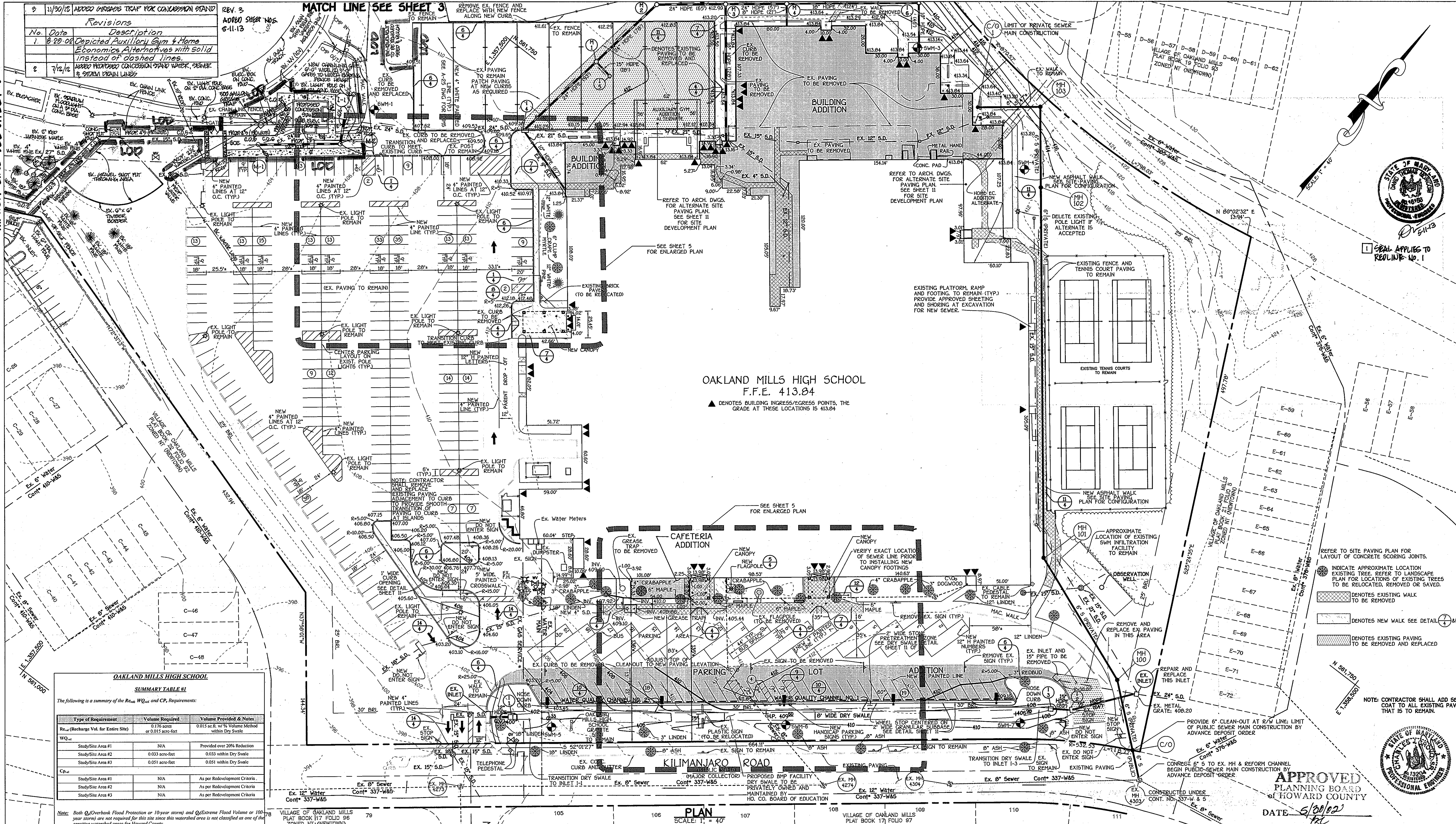
REVISION 5-2013 SDP REDLINE REVISION NO. 1

No.	Date	Description
1	8/29/02	Depicted Auxiliary Gym & Home Economics Alternatives with solid instead of dashed lines.
2	7/12/02	Added proposed concession stand, water, sewer & storm drain lines.

REV. 3  
ADDED SHEET NOS.  
6-11-13

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 3



OAKLAND MILLS HIGH SCHOOL  
F.F.E. 413.04

▲ DENOTES BUILDING INGRESS/EGRESS POINTS, THE GRADE AT THESE LOCATIONS IS 413.04

- REFER TO SITE PAVING PLAN FOR LAYOUT OF CONCRETE SCORING JOINTS.
- INDICATE APPROXIMATE LOCATION EXISTING TREE. REFER TO LANDSCAPE PLAN FOR LOCATIONS OF EXISTING TREES TO BE RELOCATED, REMOVED OR SAVED.
- DENOTES EXISTING WALK TO BE REMOVED
- DENOTES NEW WALK SEE DETAIL 7-3-1
- DENOTES EXISTING PAVING TO BE REMOVED AND REPLACED

NOTE: CONTRACTOR SHALL ADD SEAL COAT TO ALL EXISTING PAVING THAT IS TO REMAIN.

**OAKLAND MILLS HIGH SCHOOL**

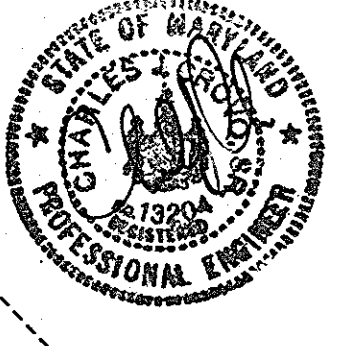
**SUMMARY TABLE #1**

The following is a summary of the Reqs., WQs., and CP, Requirements:

Type of Requirement	Volume Required	Volume Provided & Notes
Re. (Recharge Vol. for Entire Site)	0.176 acres or 0.015 acre-foot	0.013 ac-ft. w/ % Volume Method within Dry Swale
WQ.		
StudySite Area #1	N/A	Provided over 20% Reduction
StudySite Area #2	0.033 acre-foot	0.033 within Dry Swale
StudySite Area #3	0.051 acre-foot	0.051 within Dry Swale
CP.		
StudySite Area #1	N/A	As per Redevelopment Criteria.
StudySite Area #2	N/A	As per Redevelopment Criteria.
StudySite Area #3	N/A	As per Redevelopment Criteria.

Notes: Both  $Q_1$  (Overbank Flood Protection or 10-year storm) and  $Q_2$  (Extreme Flood Volume or 100-year storm) are not required for this site since this watershed area is not classified as one of the sensitive watershed areas for Howard County.

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 5/30/02



PLAN  
SCALE: 1" = 40'

**ENGINEER'S CERTIFICATE**

I hereby certify that this Plan for Erosion and Sediment Control Represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Condition and that it was Prepared in Accordance with the Requirements of The Howard Soil Conservation District.

*John M. Myers*  
Signature of Engineer  
6/27/02

**DEVELOPER'S CERTIFICATE**

"I/we Certify that All Development and Construction will Be Done According to This Plan of Development and Plan for Erosion and Sediment Control and that All Responsible Personnel Involved in the Construction Project will Have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion Before Beginning the Project. I also Authorize Periodic On-Site Inspection by The Howard Soil Conservation District or Their Authorized Agents, As Are Deemed Necessary."

*John R. Robertson*  
Signature of Developer  
6/27/02

Approved: This Development is Approved For Erosion and Sediment Control by The Howard Soil Conservation District.  
DATE 6/27/02

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*John P. Ruff*  
Director, Department of Planning and Zoning  
7/6/02

*Christy Korman*  
Chief, Division of Land Development  
7/2/02

*John D. ...*  
Chief, Development Engineering Division  
7/1/02

PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention Cathleen Young

TCA ARCHITECTS  
2661 Riva Road, Suite 120  
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Address Chart

Parcel Number	Street Address
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PLAT RECORDATION REFERENCE  
PLATBOOK 21 FOLIO 15 AND 16

PROJECT	SECTION/AREA	PARCEL
OAKLAND MILLS HIGH SCHOOL	2/5	336

DEED REF.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
590/12	9	NT	36	SIXTH	6066.03

WATER CODE E. 05  
SEWER CODE 5414400

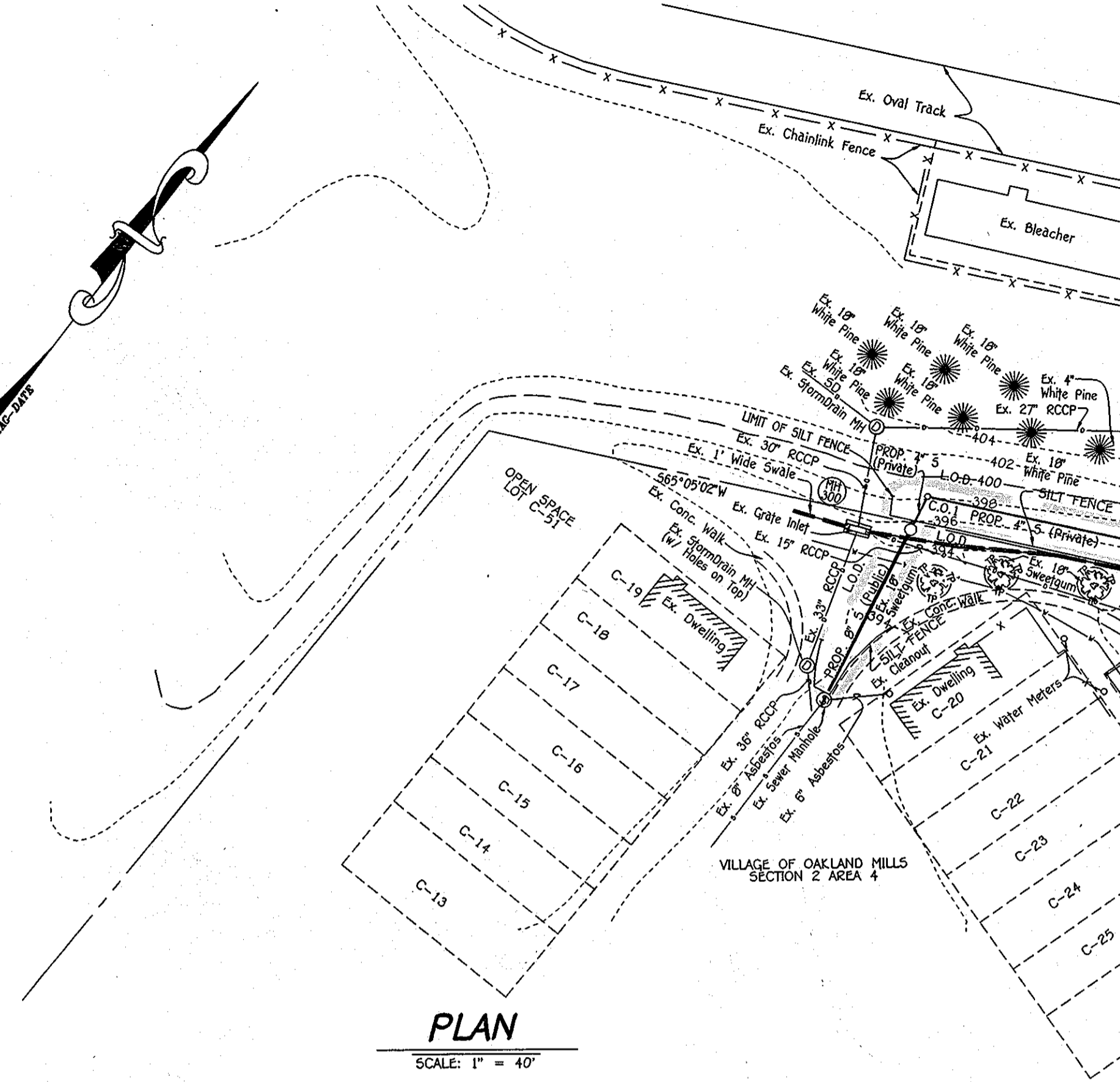
**SITE DEVELOPMENT PLAN**

COLUMBIA  
OAKLAND MILLS HIGH SCHOOL  
LOT 1  
VILLAGE OF OAKLAND MILLS  
SECTION 2 AREA 5  
BUILDING ADDITION AND  
PARKING LOT ADDITION

TAX MAP No: 36 PARCEL No: 336  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: 3 MAY 2002  
BUILDING PERMIT/CD REVIEW 14 JUNE 02

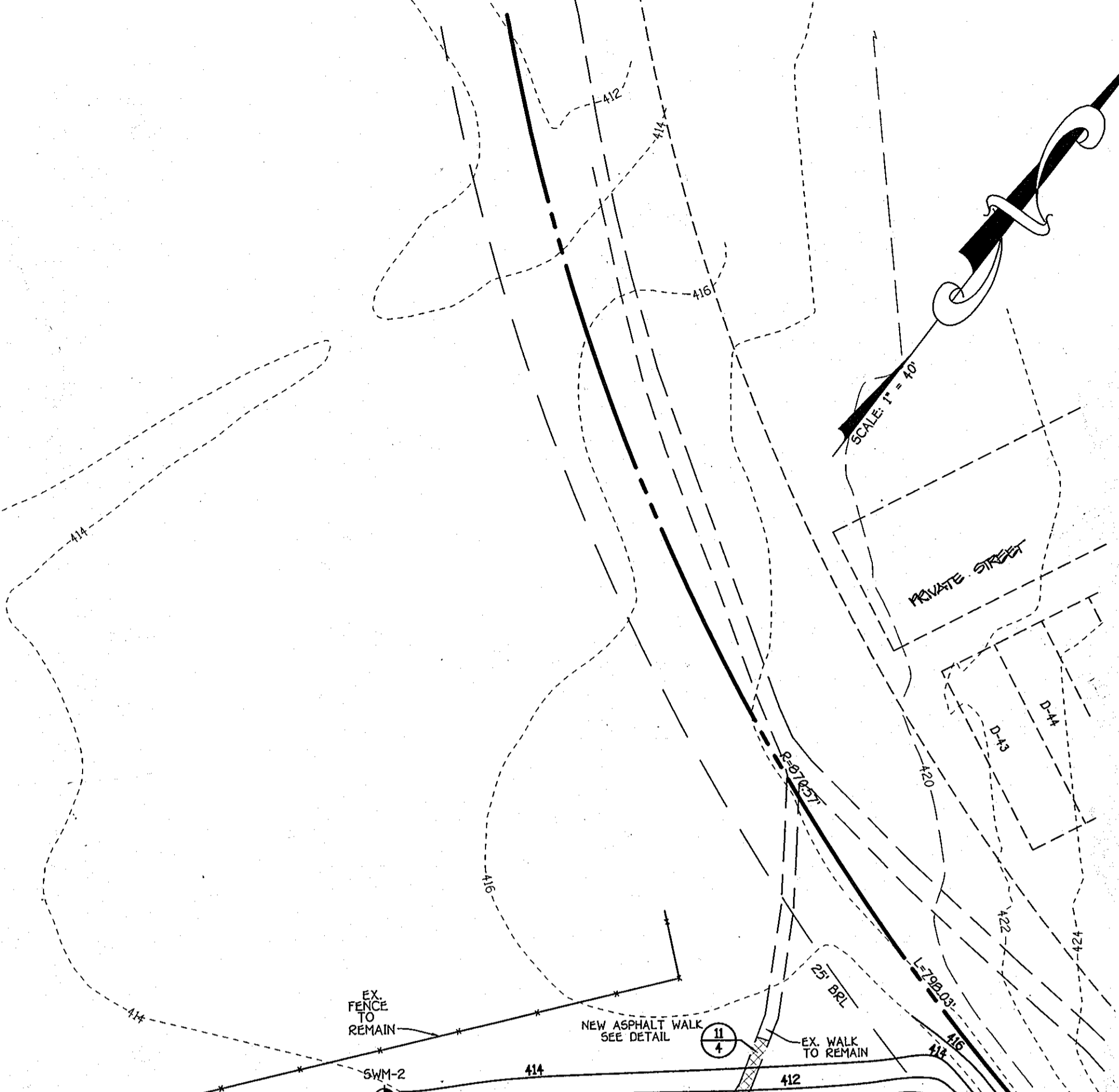
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SHEET 2 OF 2

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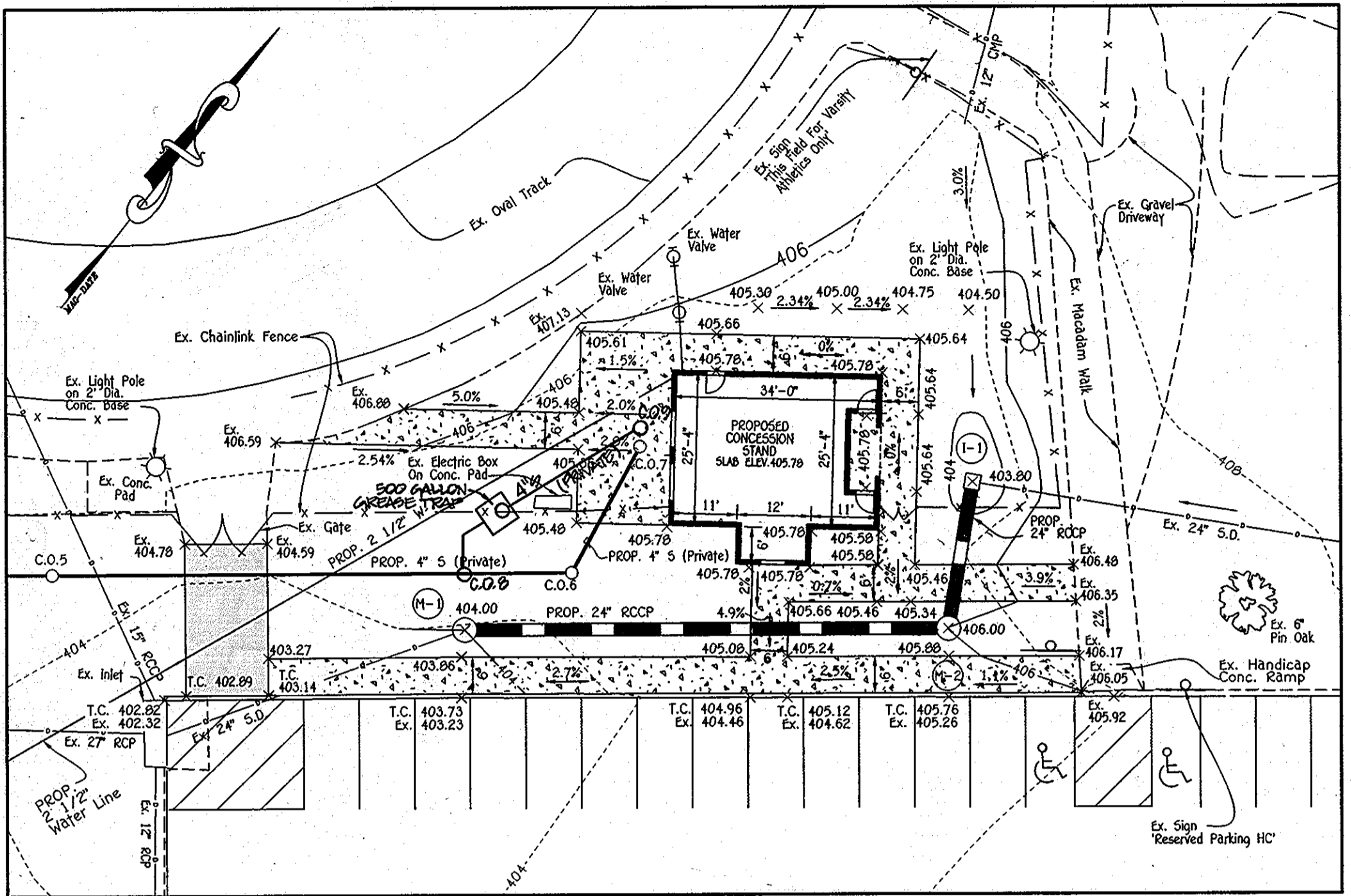


**PLAN**  
SCALE: 1" = 40'

MATCH LINE SEE SHEET 2



**MATCH LINE SEE SHEET 2**

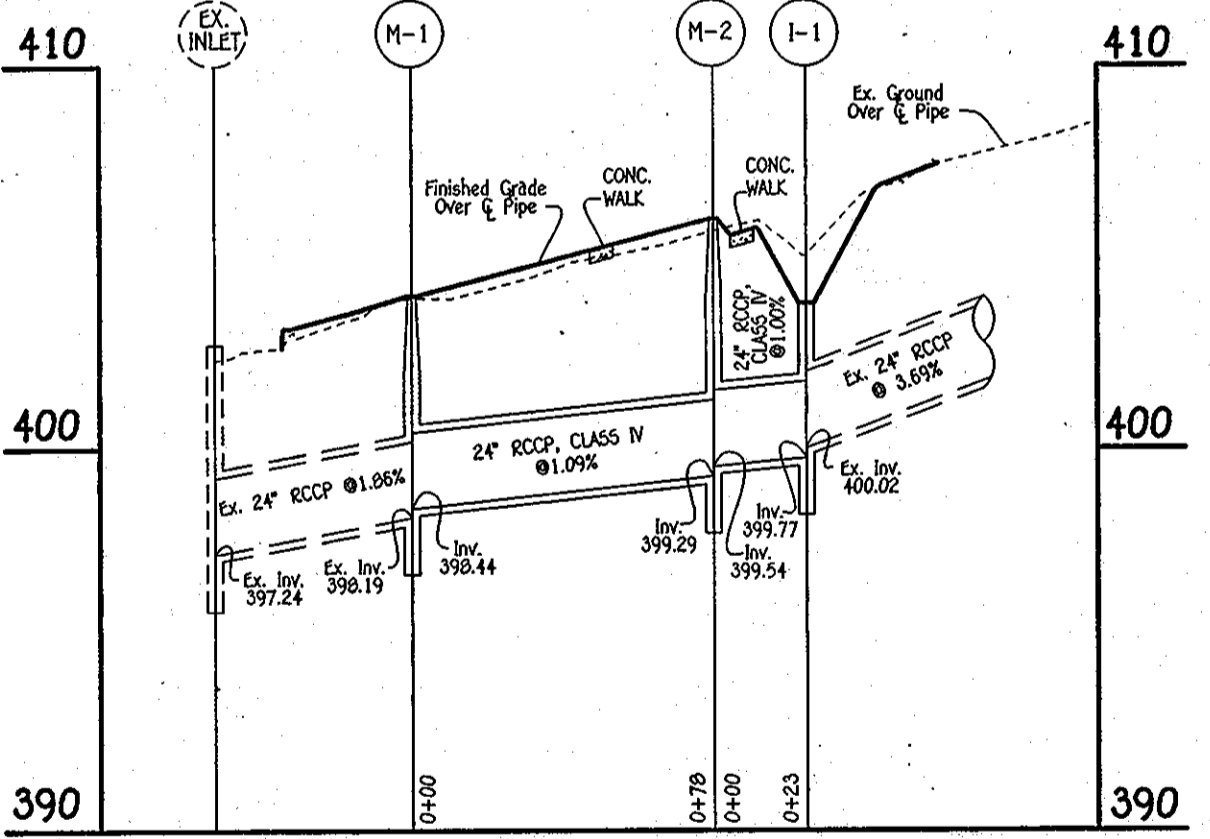


**HANDICAP ACCESS PLAN**  
SCALE: 1" = 20'

STRUCTURE SCHEDULE							
STRUCTURE NO.	TOP ELEVATION	INV. IN	INV. OUT	COORDINATES	WIDTH	TYPE	REMARKS
I-1	403.80 *	EX. 400.02	399.77	N 561596.46 E 1357421.04	2.50'	S INLET	D - 4.22
M-1	404.00	398.44	398.19	N 561526.98 E 1357371.57	4.0'	STD. MANHOLE	G - 5.12
M-2	406.00	399.29	399.54	N 561575.25 E 1357433.36	4.0'	STD. MANHOLE	G - 5.12

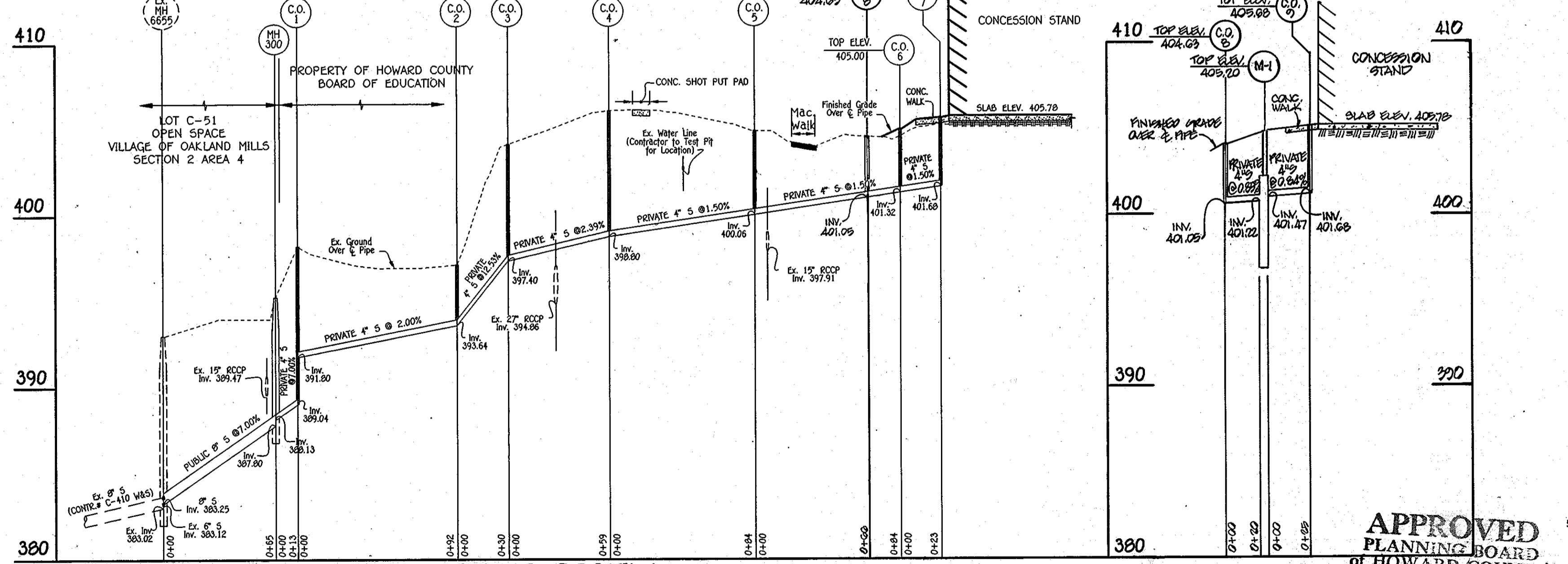
\* - DENOTES TOP OF GRADE ELEVATION  
REINFORCING GRATE REQUIRED AT I-1

REVISIONS		
No.	DATE	DESCRIPTION
1	6-27-12	ADDED PROPOSED CONCESSION STAND, WATER, SEWER & STORMDRAIN LINES, STORMDRAIN PROFILE, SEWER PROFILE AND CONSTRUCTION SCHEDULE.
2	11/20/12	ADDED GREASE TRAP FOR CONCESSION STAND



**STORM DRAIN PROFILE**  
SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'

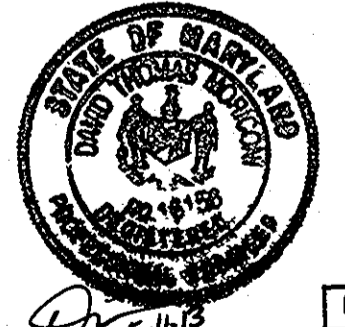
**PLAN**  
SCALE: 1" = 40'



**SEWER PROFILE**  
SCALE: HOR. : 1" = 50'  
VER. : 1" = 5'

**STORM DRAIN PROFILE, SEWER PROFILE, HANDICAP ACCESS PLAN AND STRUCTURE SCHEDULE**

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 5/20/12  
[Signature]



SEAL APPLIES TO REG. LINE NO. 1 - CHANGED SHEET NO.

**ENGINEER'S CERTIFICATE**

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

Signature of Engineer: [Signature]  
Date: 6/19/12

**DEVELOPER'S CERTIFICATE**

"I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer: [Signature]  
Date: 6-19-12

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director, Department of Planning and Zoning: [Signature] 7/5/12  
Chief, Division of Land Development: [Signature] 7/6/12  
Chief, Development Engineering Division: [Signature] 7/1/12

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention: Cathleen Young

TCA Architects  
2661 Riva Road, Suite 120  
Annapolis Maryland 21401  
301-261-0700

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PLAT RECORDATION REFERENCE PLATBOOK 21 FOLIO 15 AND 16	
PROJECT	SECTION/AREA
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DEED REF.	PARCEL
590/12	336
BLOCK NO.	ELEC. DIST.
9	SIXTH
ZONE	CENSUS TR.
NT	36
TAX/ZONE	6066.03
WATER CODE	SEWER CODE
E 05	5414400

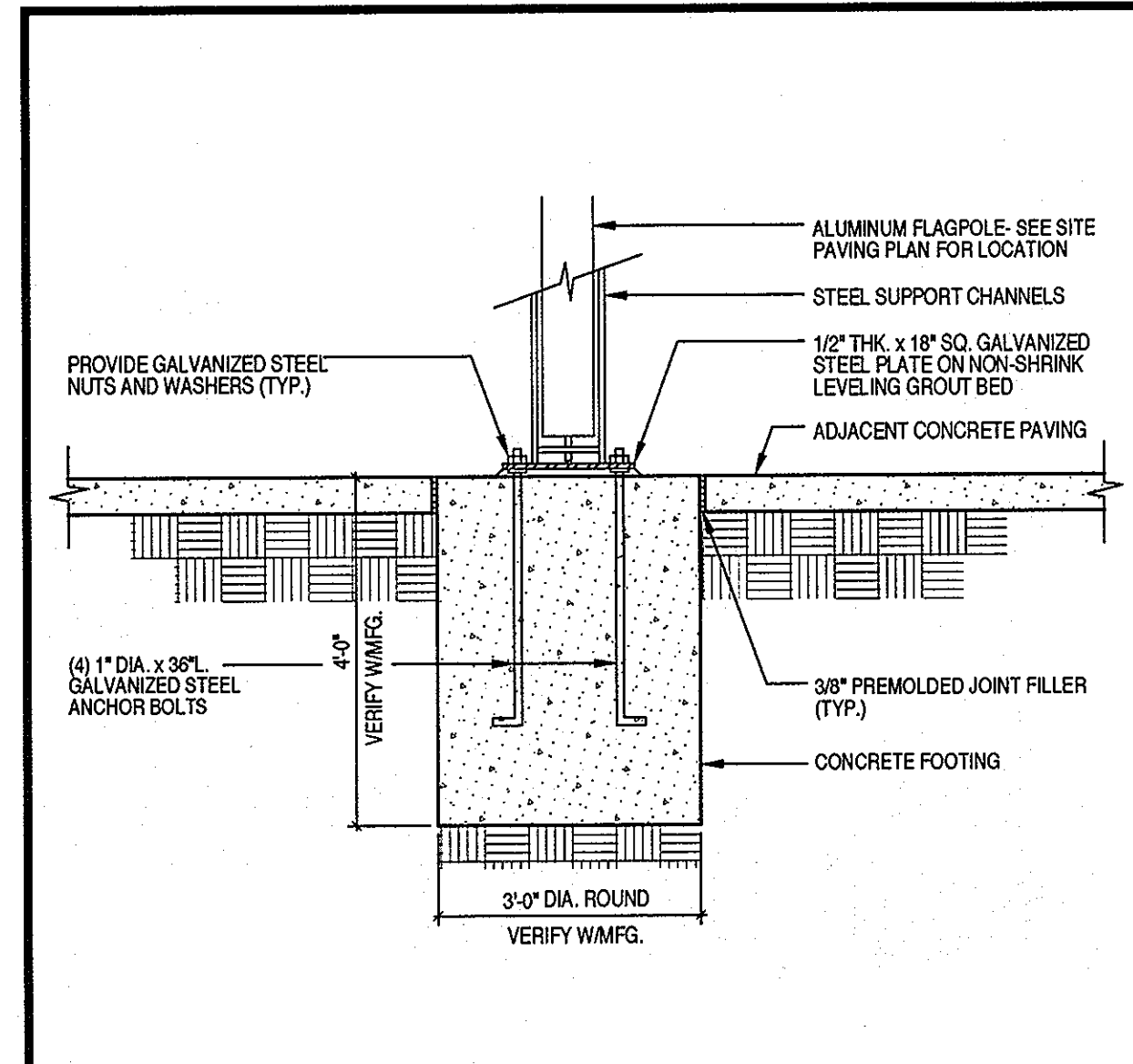
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**BUILDING ADDITION AND**  
**PARKING LOT ADDITION**

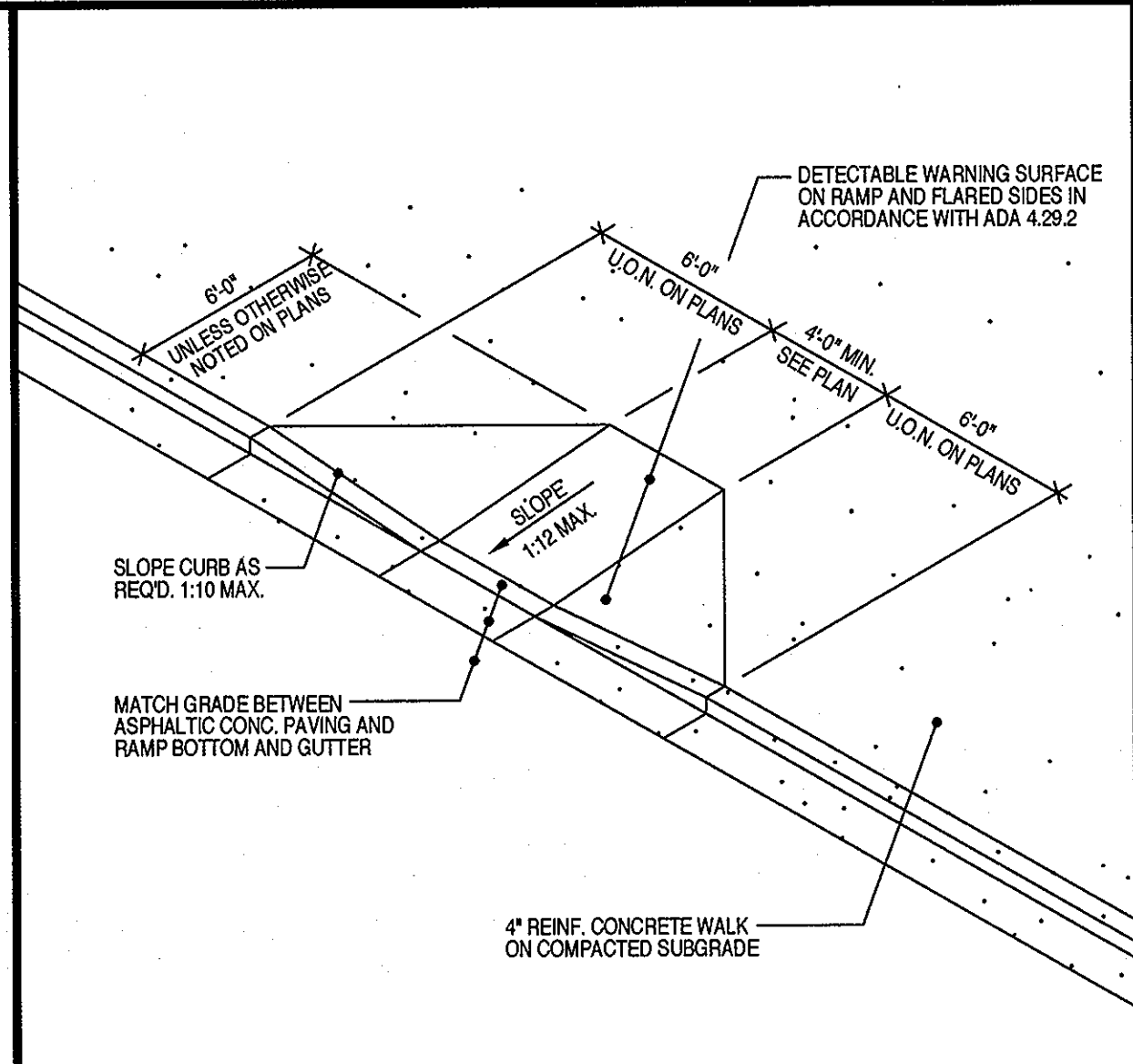
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SHEET 3 OF 11

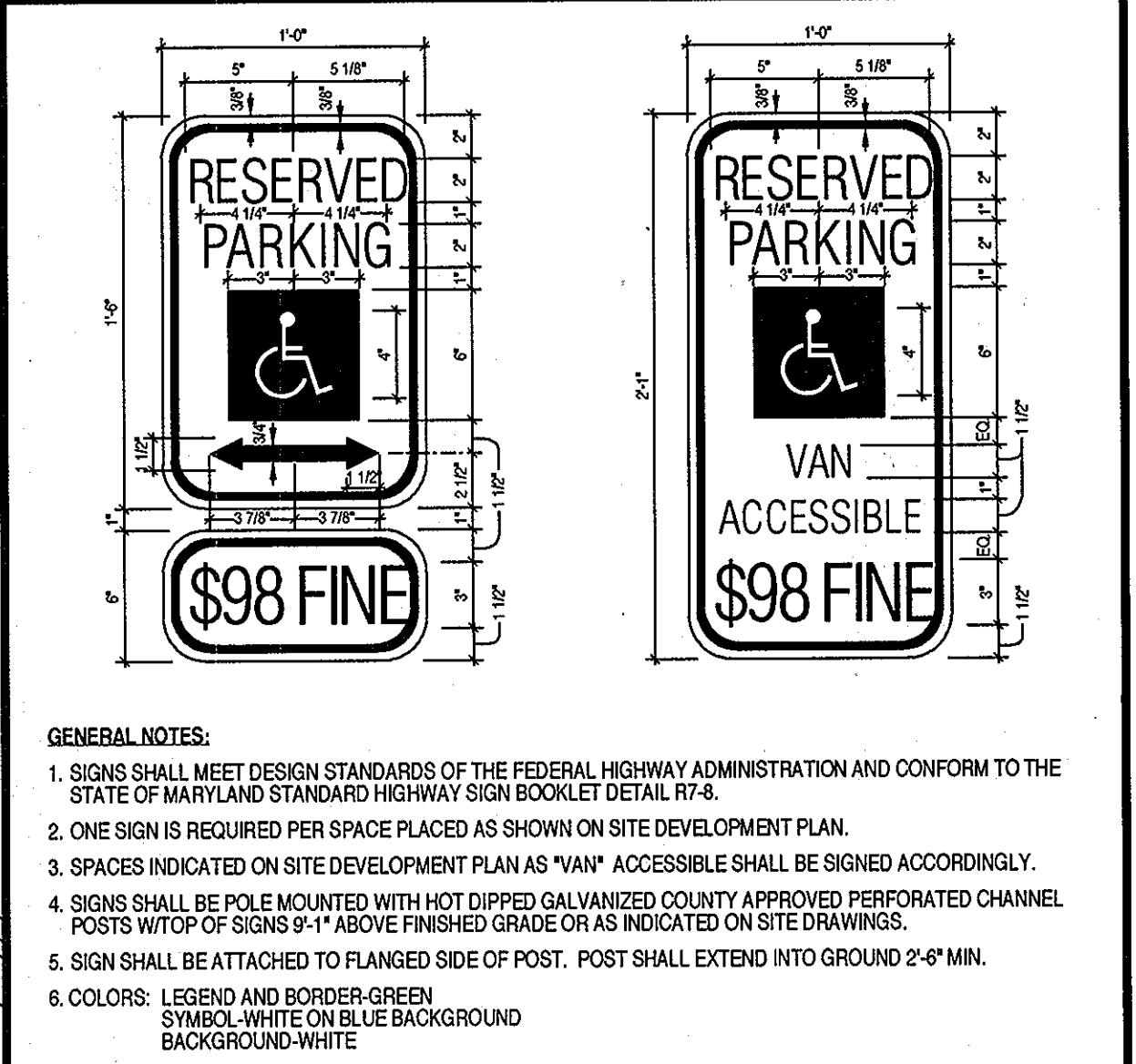
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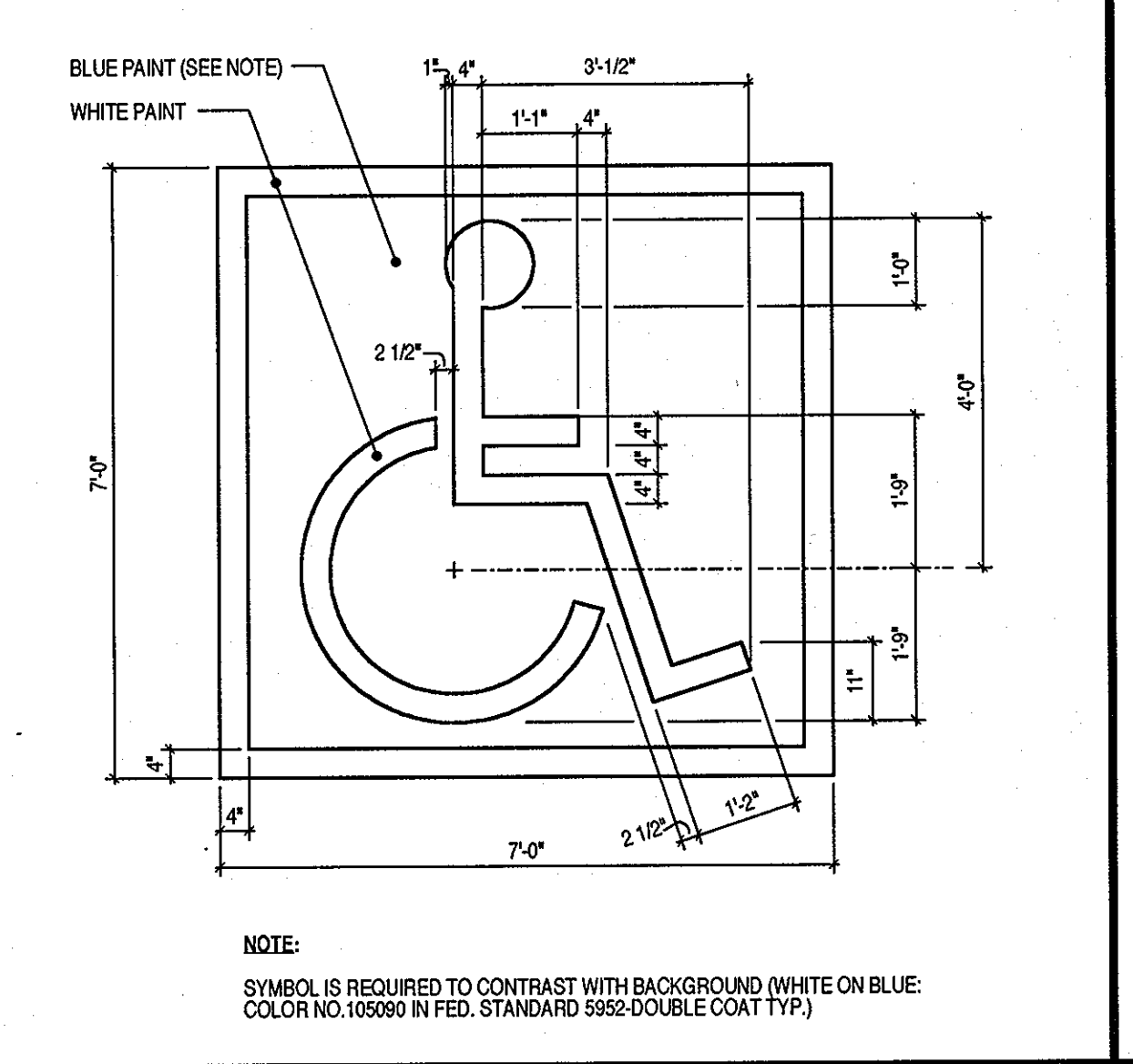
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4 TILT FLAGPOLE DETAIL 1/4\"/>



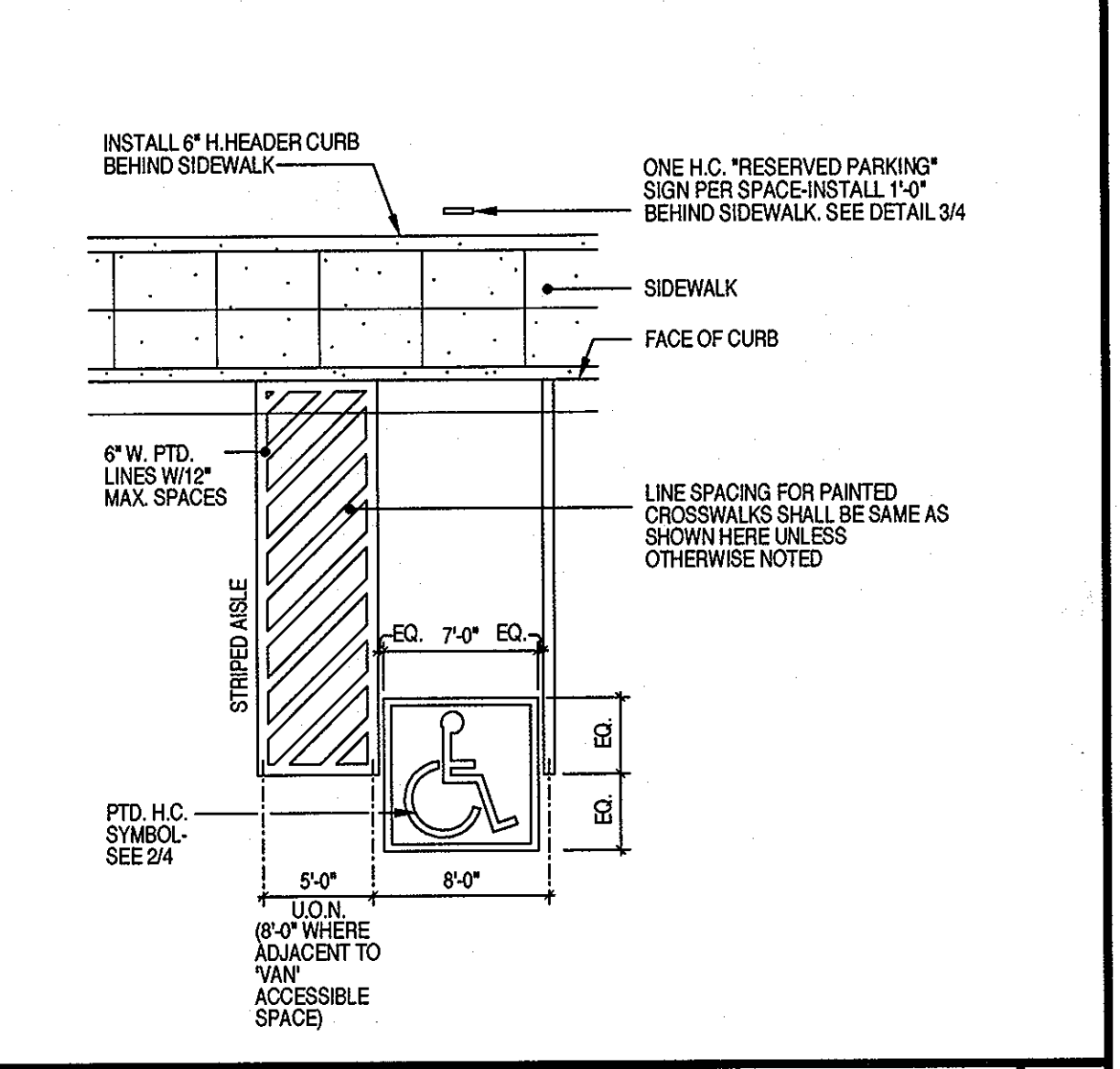
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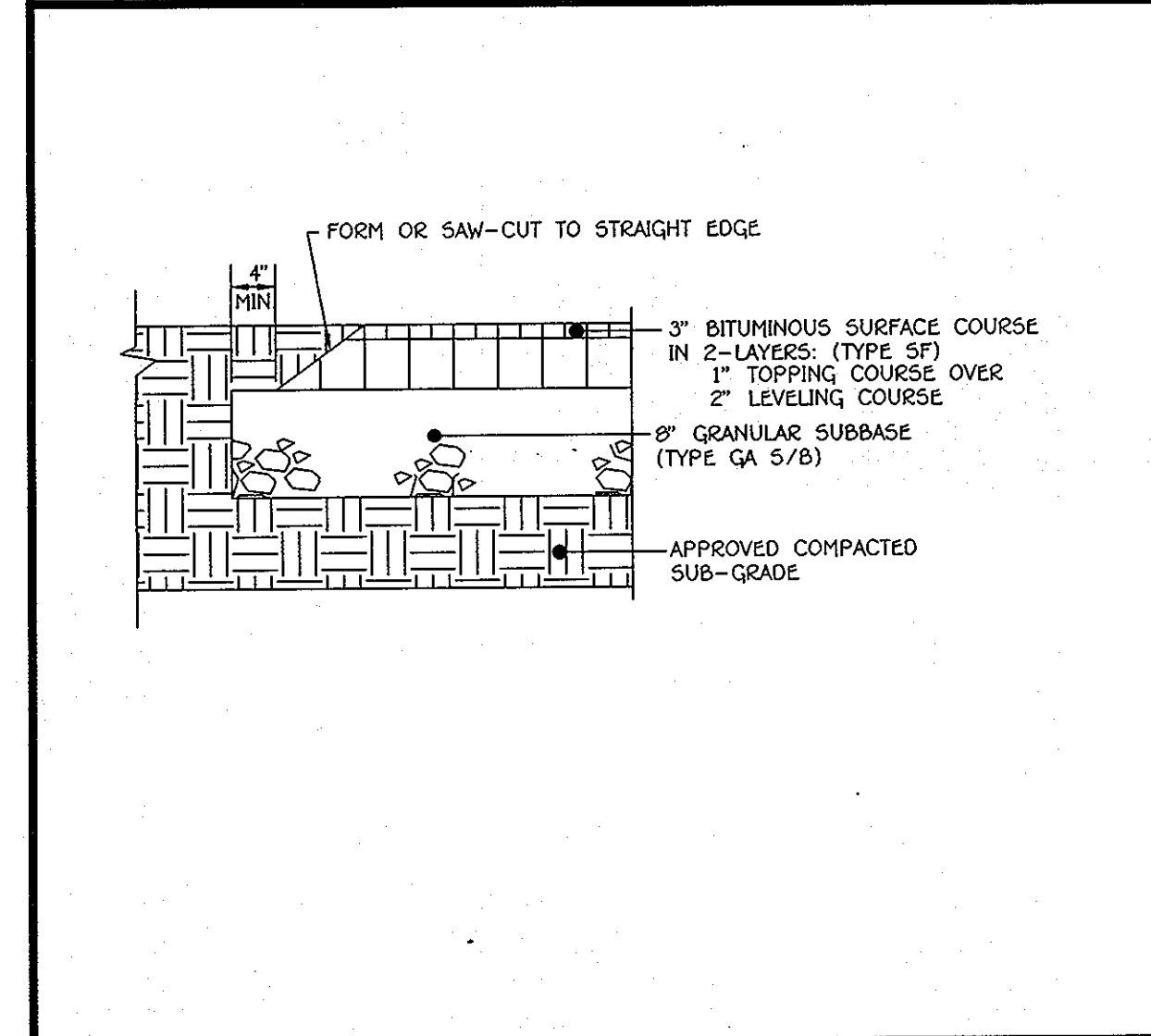
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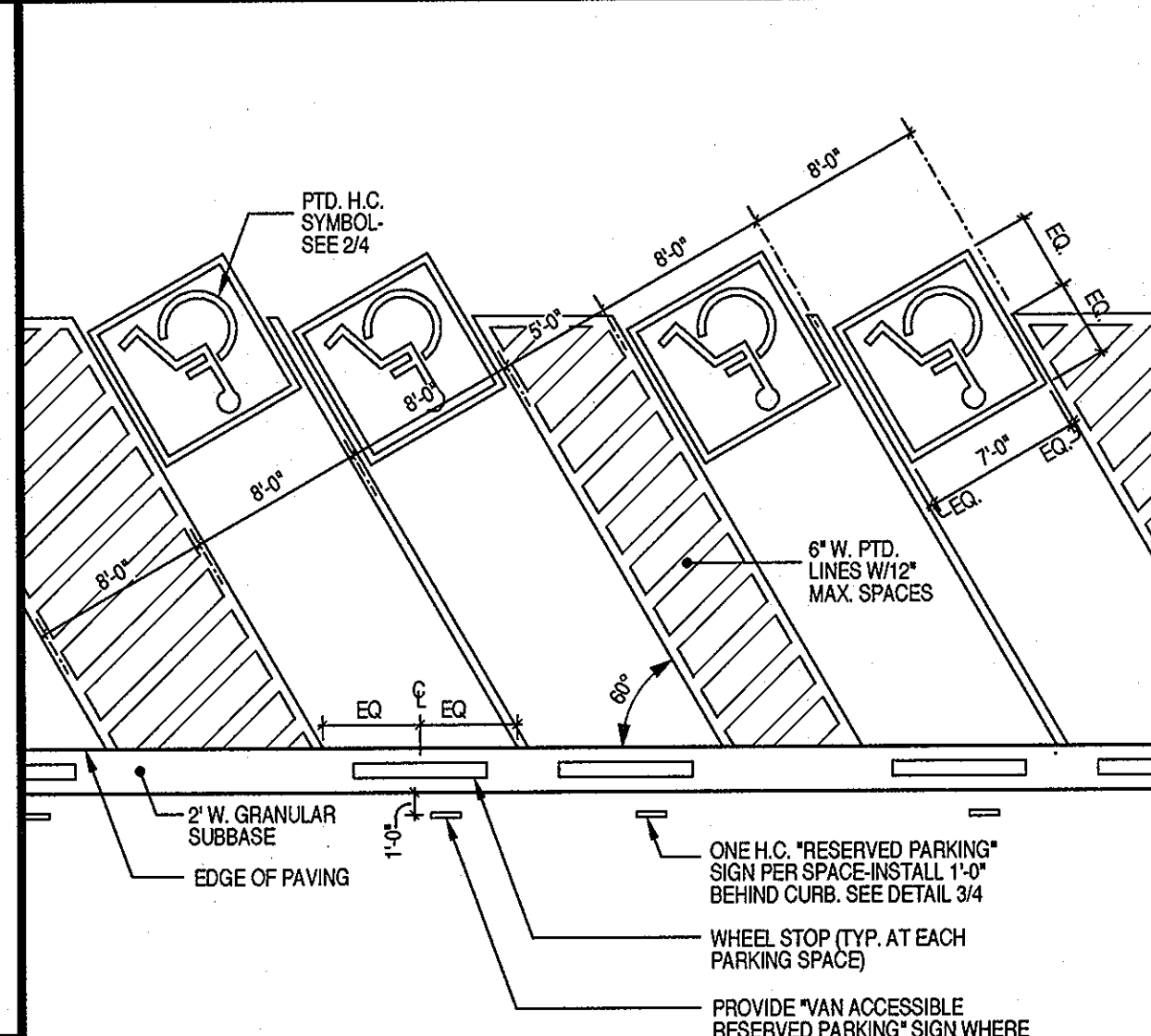
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2 ACCESSIBLE SPACE STENCIL LAYOUT 1/2\"/>



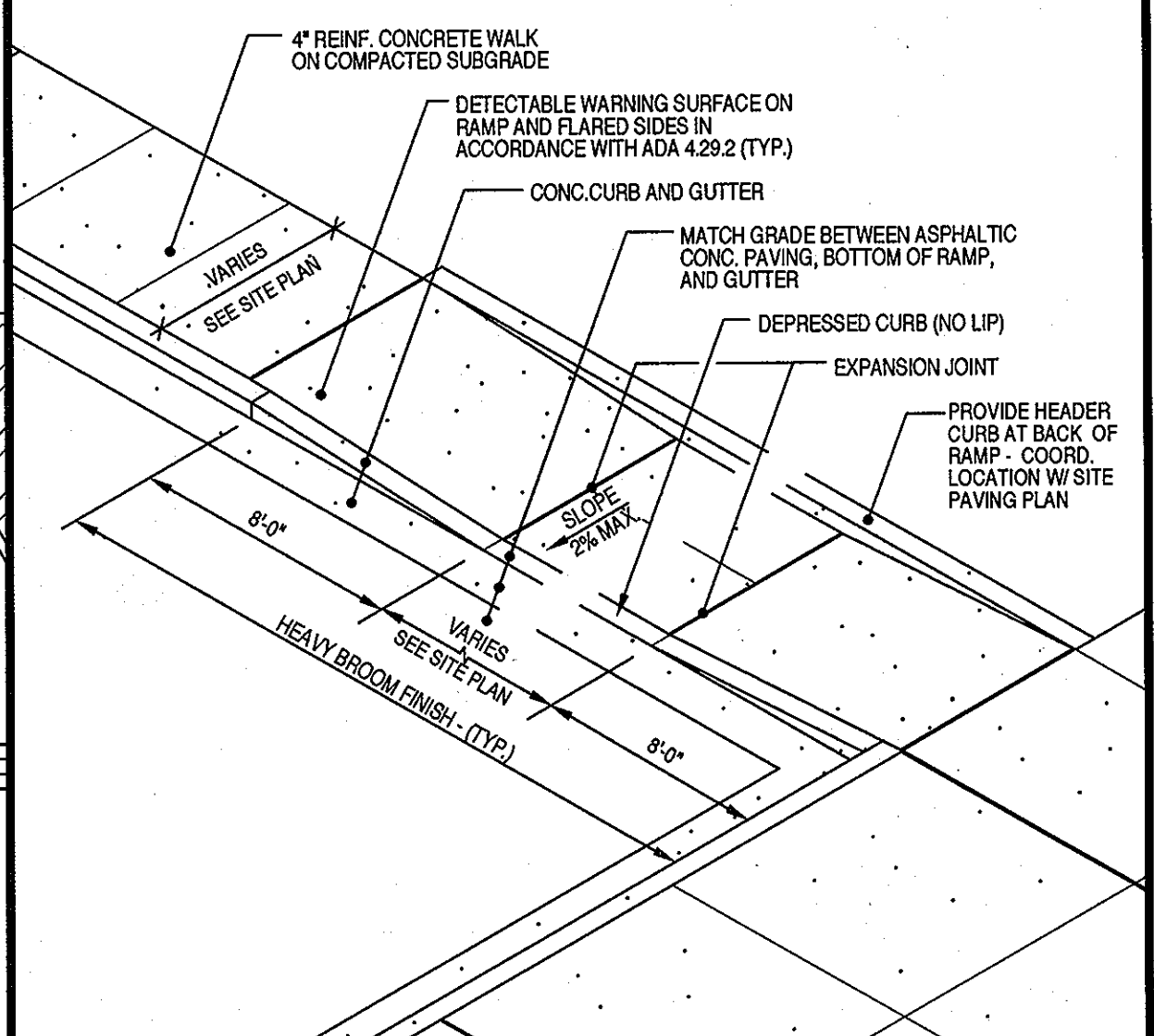
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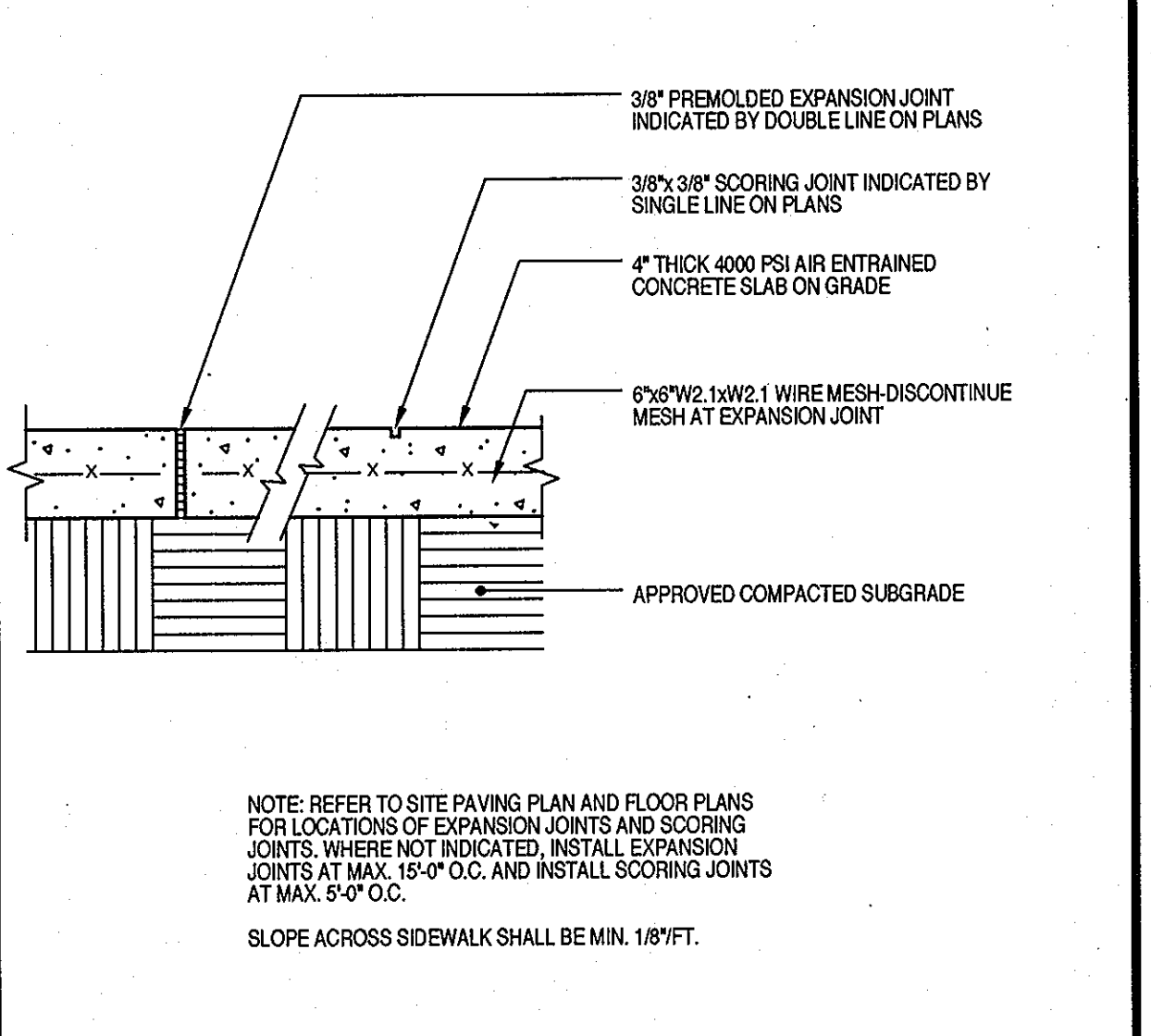
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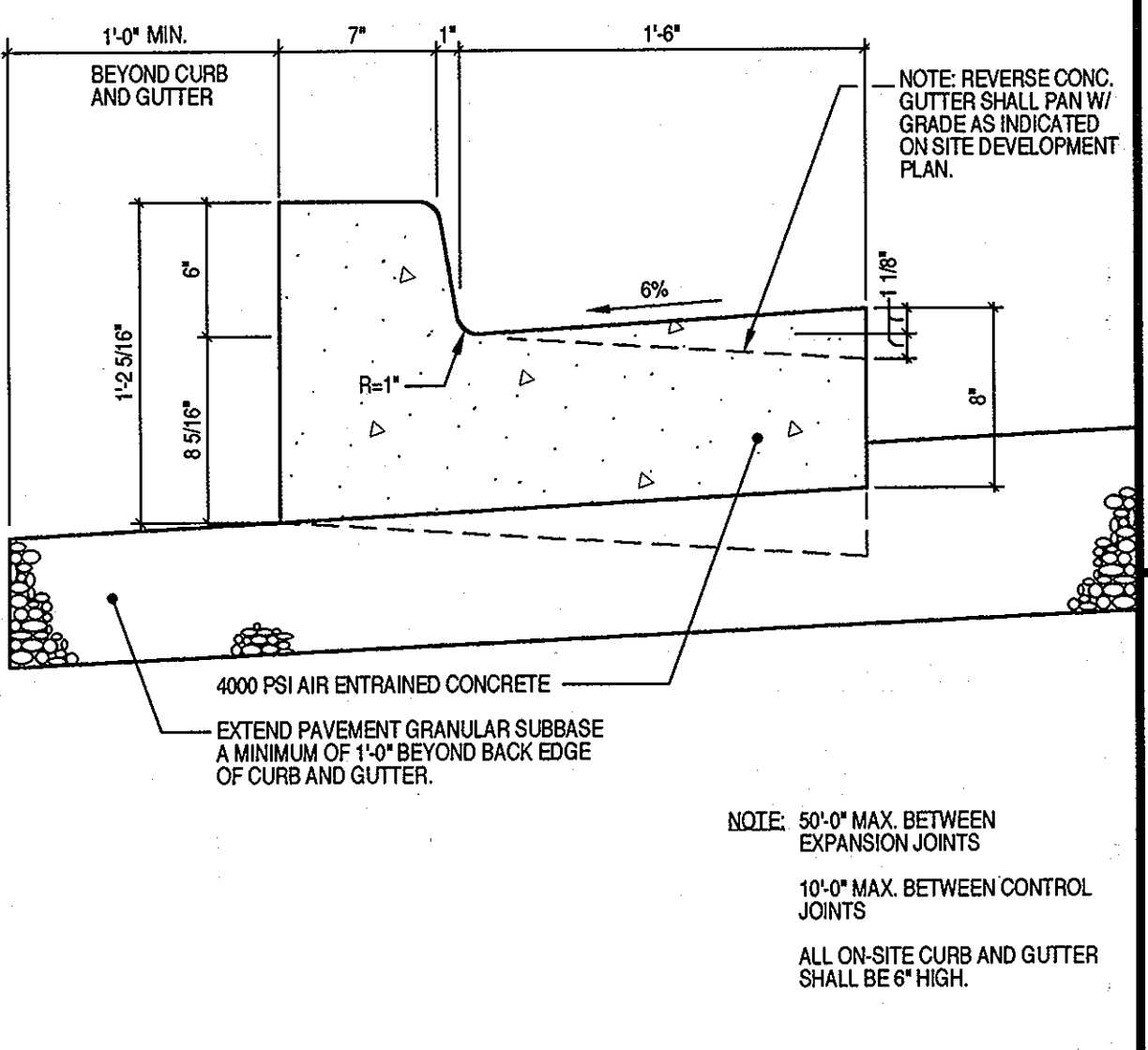
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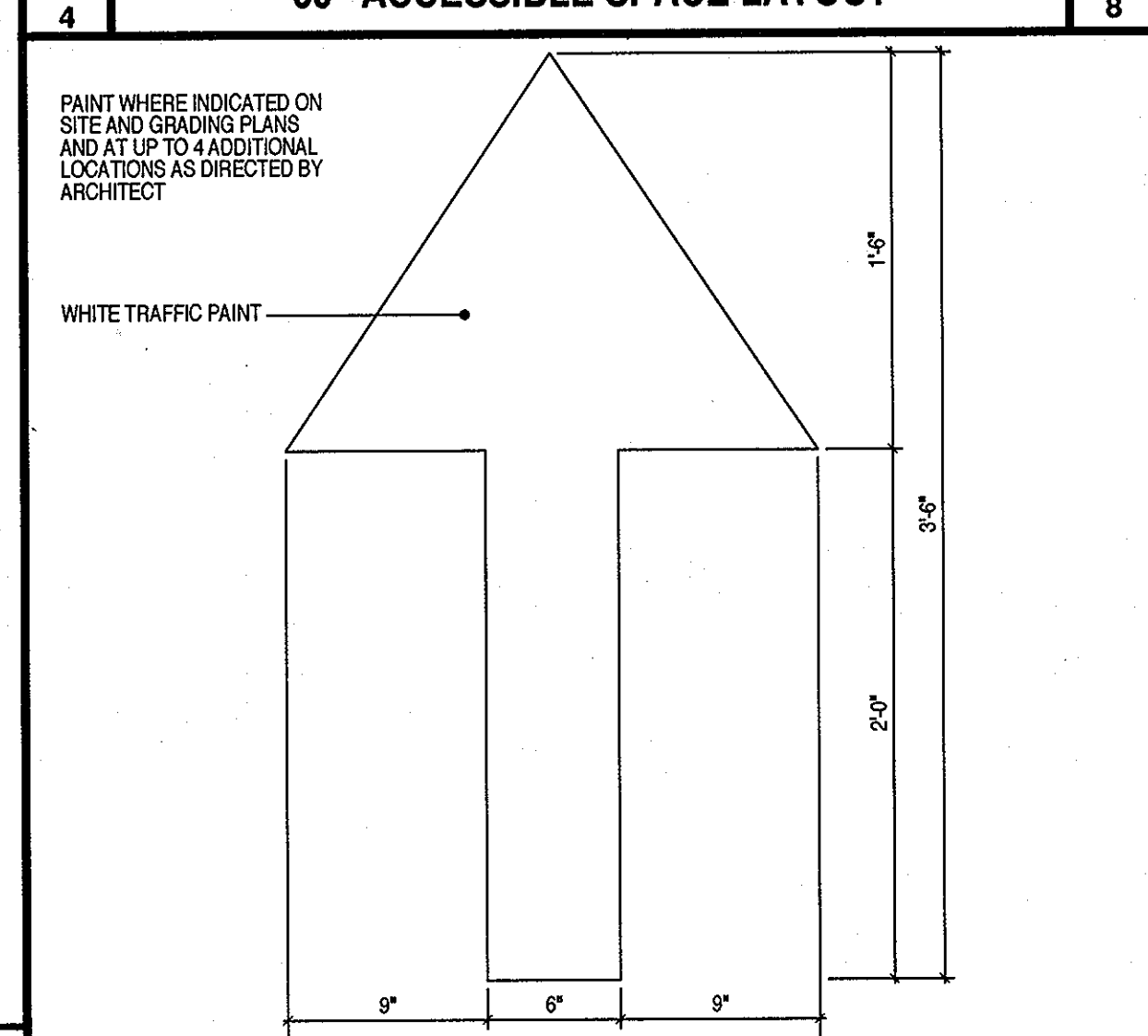
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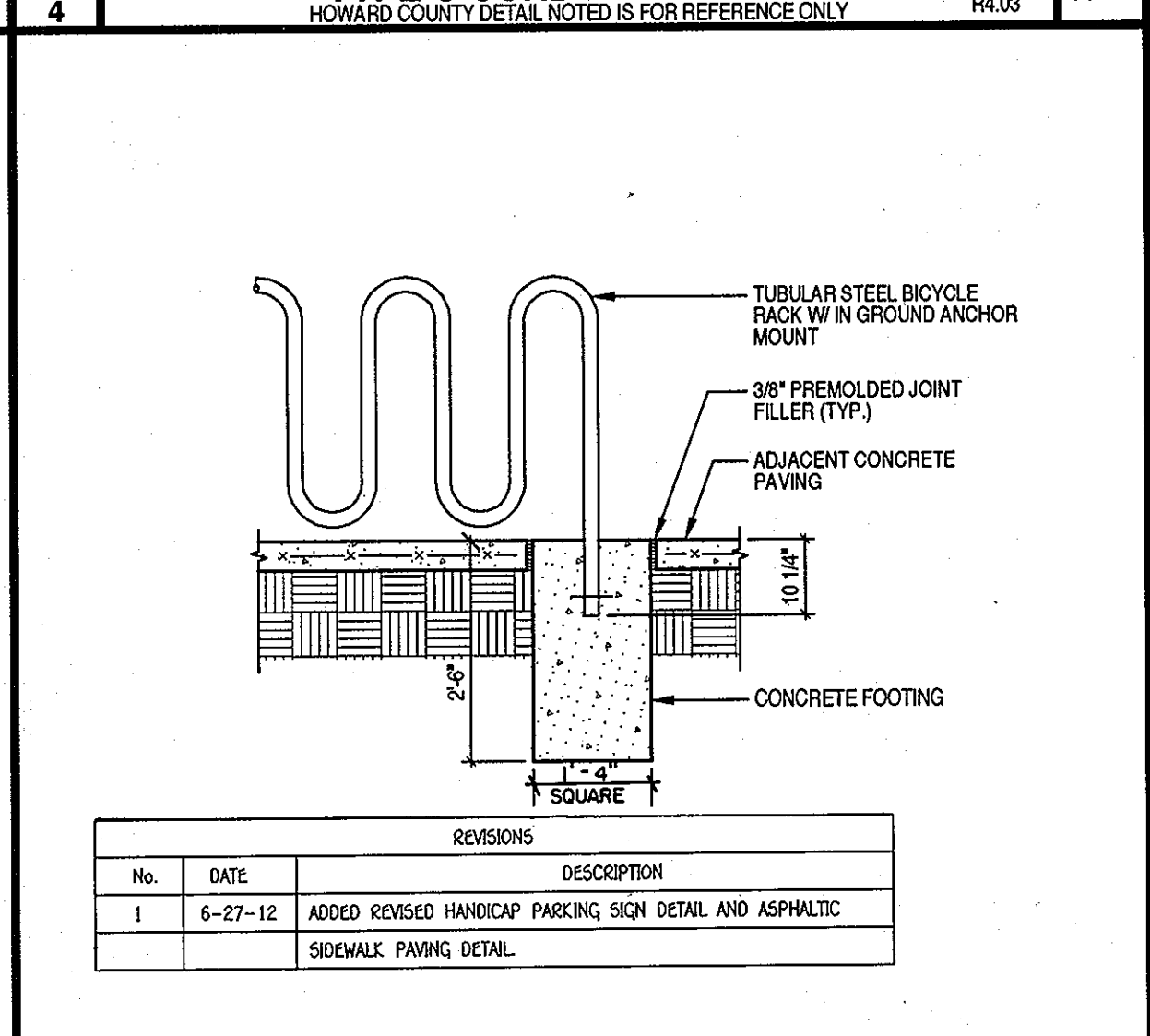
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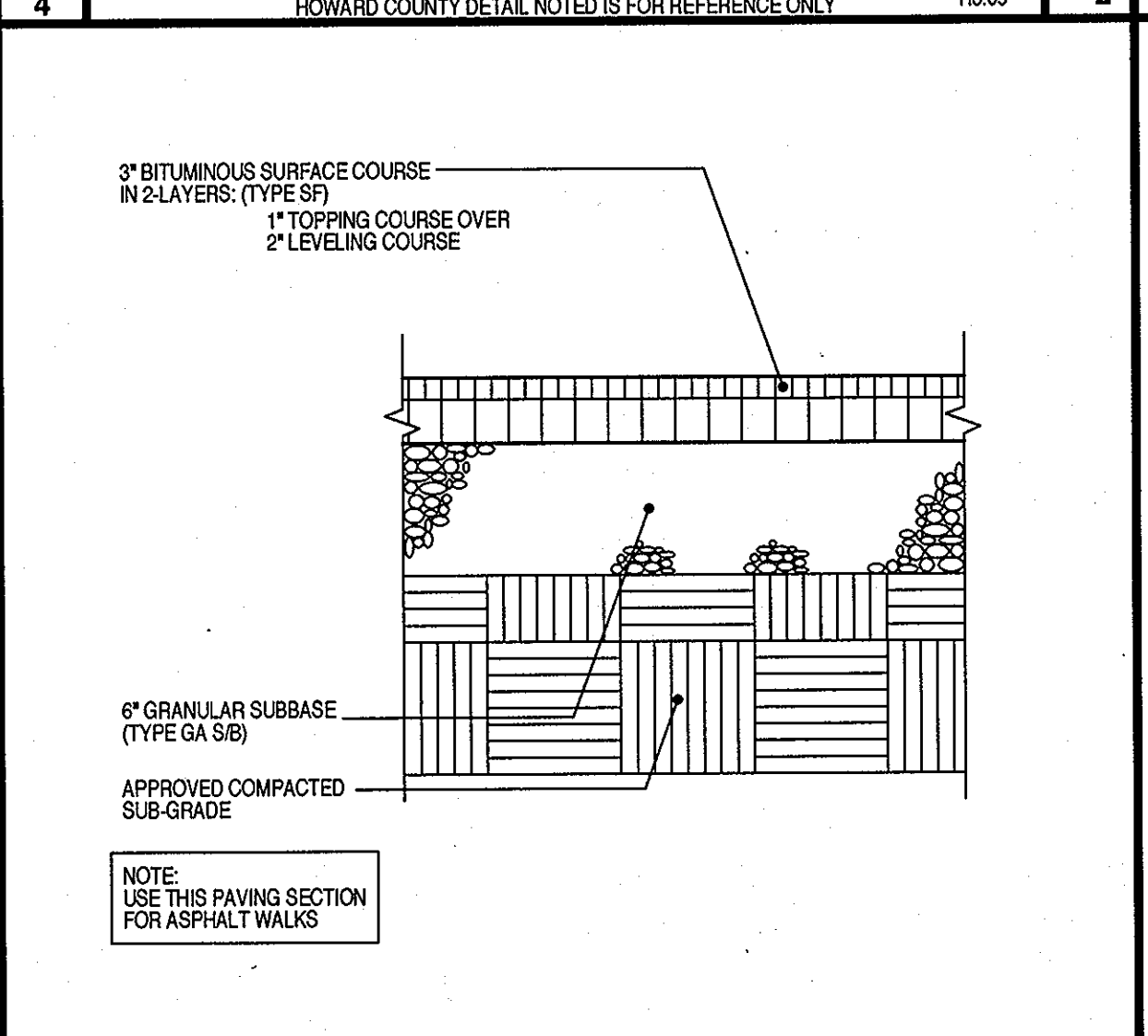
16  
4 HANDICAP PARKING SIGN DETAIL NO SCALE 16/4\"/>



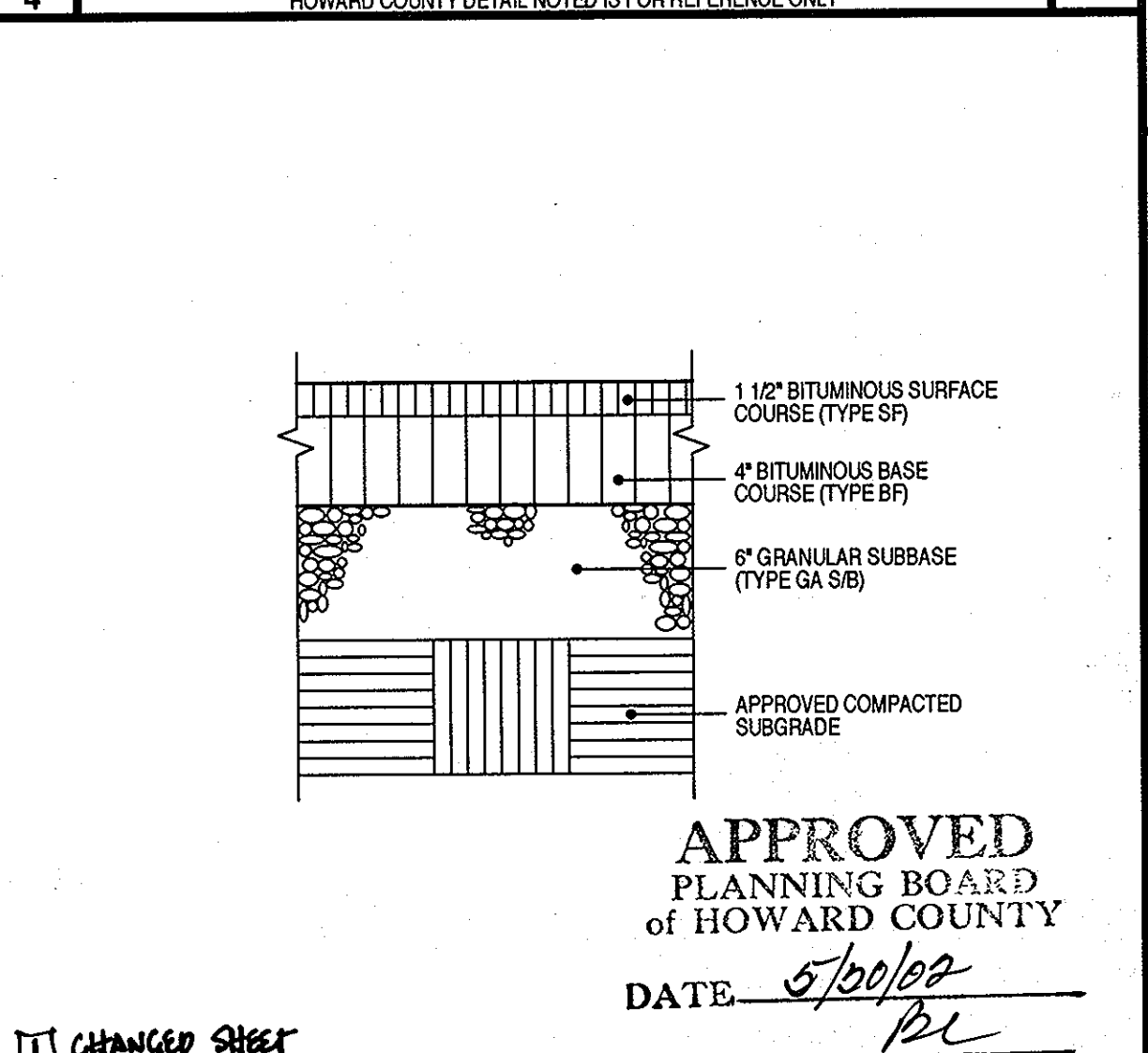
14  
4 PAINTED ARROW DETAIL 1 1/2\"/>



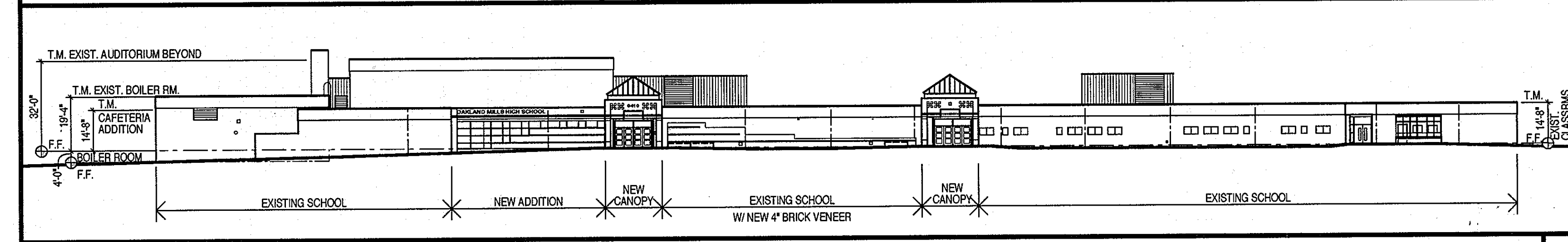
11  
4 BICYCLE RACK DETAIL 1 1/2\"/>



10  
4 PAVED PLAY AREA ASPHALTIC PAVING DETAIL 1 1/2\"/>



10  
2 HEAVY DUTY ASPHALTIC PAVING DETAIL 1 1/2\"/>



13  
4 SOUTH ELEVATION (FACING BUS LOOP) 1 1/2\"/>

**tca architects**  
2881 RIVA ROAD SUITE 120  
ANNAPOLIS, MARYLAND  
21401  
410-841-6205

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* DIRECTOR DATE: 7/5/02

*[Signature]* CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 7/6/02

*[Signature]* CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 7/11/02

**SITE DETAILS**

Additions and Renovations  
**OAKLAND MILLS HIGH SCHOOL**  
TAX MAP NO. 36 PARCEL NO. 336  
SIXTH ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN

**BID & CONSTRUCTION**  
1 JULY 02

**4 of 113**

project no. 0101

**Additions and Renovations**  
**OAKLAND MILLS HIGH SCHOOL**  
 Howard County, Maryland  
 Howard County Public School System

BUILDING PERMIT/  
CD REVIEW  
14 JUNE 02



**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY

DATE: 7/5/02  
*[Signature]*

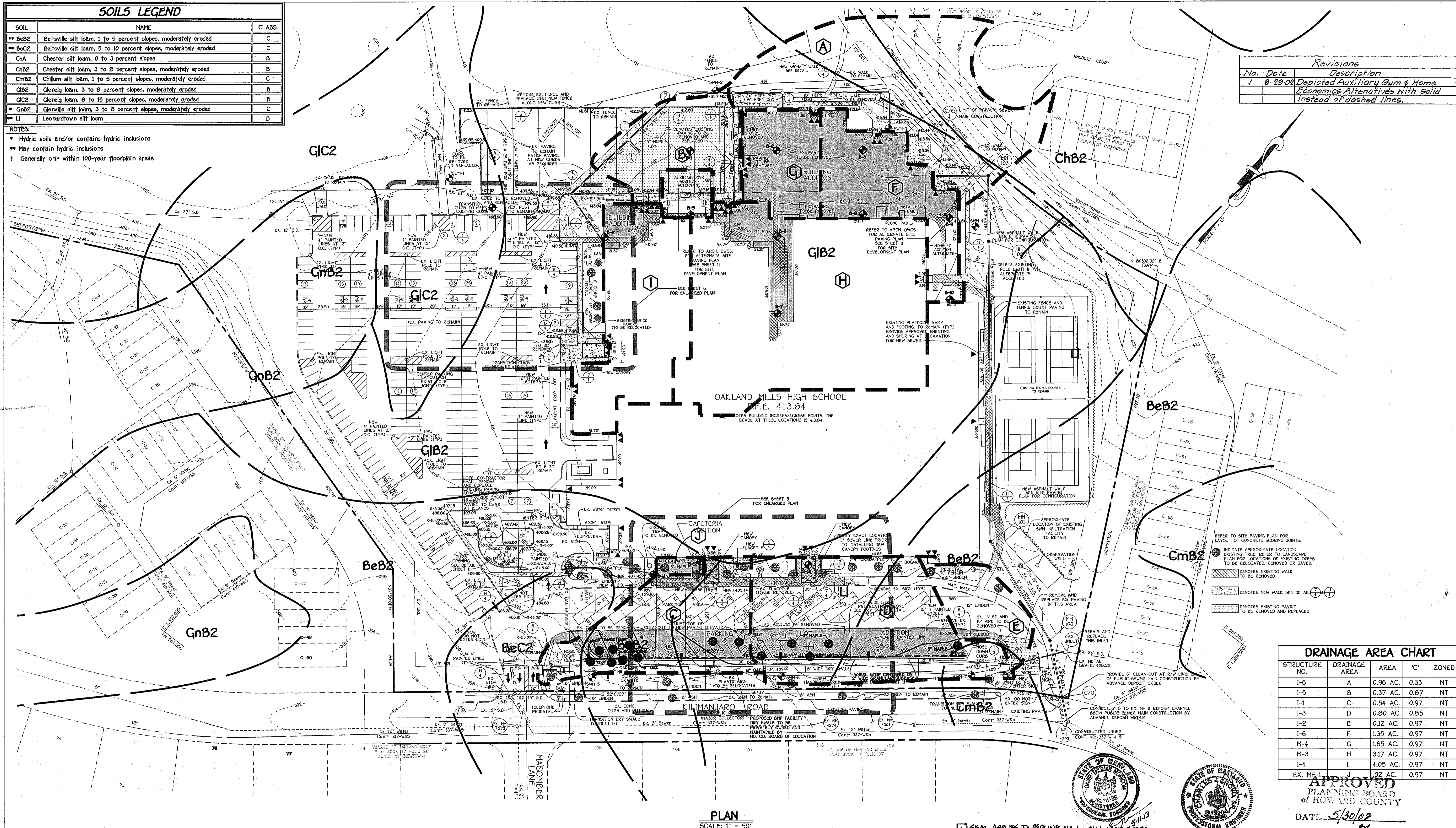
**tca architects**



SOILS LEGEND		
SOIL	NAME	CLASS
** BeB2	Beltville silt loam, 1 to 5 percent slopes, moderately eroded	C
** BeC2	Beltville silt loam, 5 to 10 percent slopes, moderately eroded	C
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
CmB2	Chilum silt loam, 1 to 5 percent slopes, moderately eroded	C
GIB2	Glenns loam, 3 to 8 percent slopes, moderately eroded	B
GIC2	Glenns loam, 8 to 15 percent slopes, moderately eroded	B
GnB2	Glennville silt loam, 3 to 8 percent slopes, moderately eroded	C
** LI	Leonardtown silt loam	D

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas

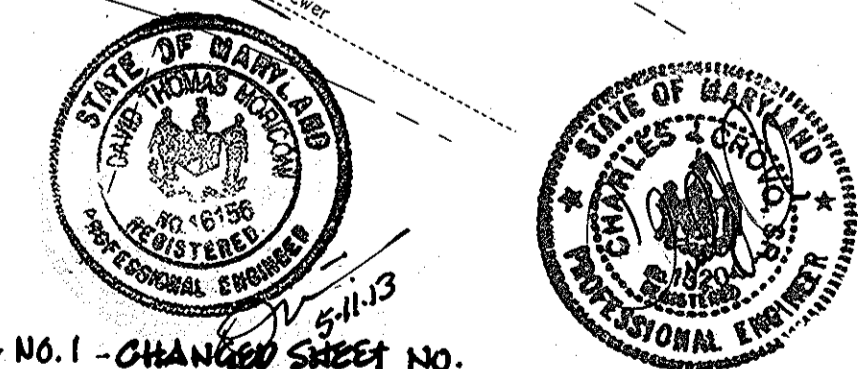
Revisions		
No.	Date	Description
1	8-20-08	Depicted Auxiliary Gym & Home Economics Alternatives with solid instead of dashed lines.



DRAINAGE AREA CHART					
STRUCTURE NO.	DRAINAGE AREA	AREA	'C'	ZONED	% IMP.
I-6	A	0.96 AC.	0.33	NT	9
I-5	B	0.37 AC.	0.87	NT	86
I-1	C	0.54 AC.	0.97	NT	100
I-3	D	0.80 AC.	0.85	NT	84
I-2	E	0.12 AC.	0.97	NT	100
I-6	F	1.35 AC.	0.97	NT	9
M-4	G	1.65 AC.	0.97	NT	86
M-3	H	3.17 AC.	0.97	NT	100
I-4	I	4.05 AC.	0.97	NT	84
EX. MH-1	J	0.02 AC.	0.97	NT	100

PLAN  
 SCALE: 1" = 50'

SEAL APPLIES TO REURINE NO. 1 - CHANGED SHEET NO.



APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 5/30/02

K:\SDS\PROJ\40360 Oakland Mills High School\Drainage Area Map.dwg, 06/19/2002 10:30:40 AM

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 30272 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21114  
 (410) 461-2200  
 Signature of Engineer: [Signature]  
 Date: 6/19/02

Reviewed for Howard County Soil Conservation District and Meets Technical Requirements.  
 Signature: [Signature]  
 Date: 6/27/02  
 U.S. Natural Resources Conservation Service

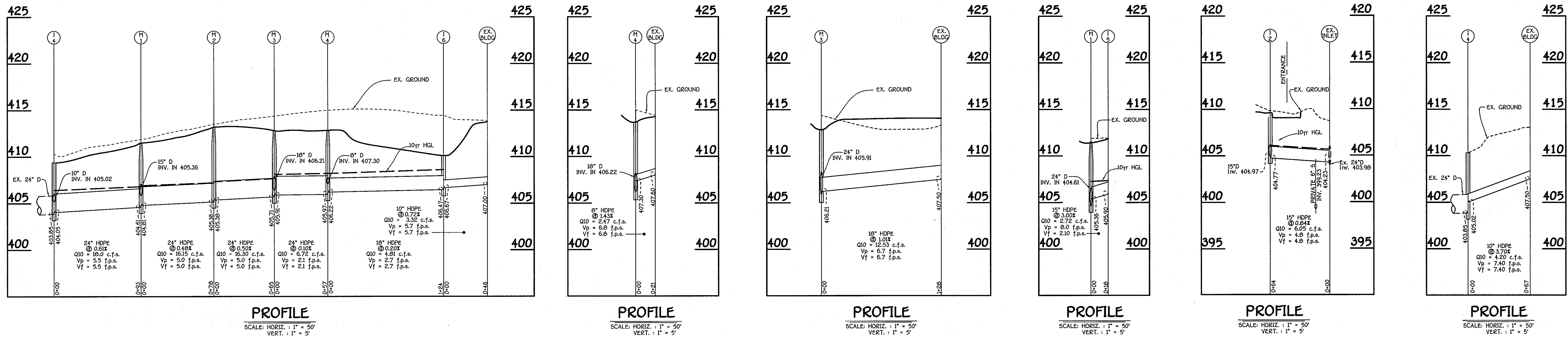
**DEVELOPER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.  
 Signature of Developer: [Signature]  
 Date: 6-19-02  
 Approved: This Development is Approved for Erosion and Sediment Control by the Howard Soil Conservation District.  
 Signature: [Signature]  
 Date: 6/27/02  
 District: Howard Soil Conservation Dist.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Director: [Signature]  
 Date: 7/5/02  
 Chief, Division of Land Development: [Signature]  
 Date: 7/6/02  
 Chief, Development Engineering Division: [Signature]  
 Date: 7/1/02

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 Maryland Route 109  
 Ellicott City, Maryland 21042  
 Attention: Cathleen Young  
 TCA ARCHITECTS  
 2661 Riva Road, Suite 120  
 Annapolis Maryland 21401  
 301-261-8700

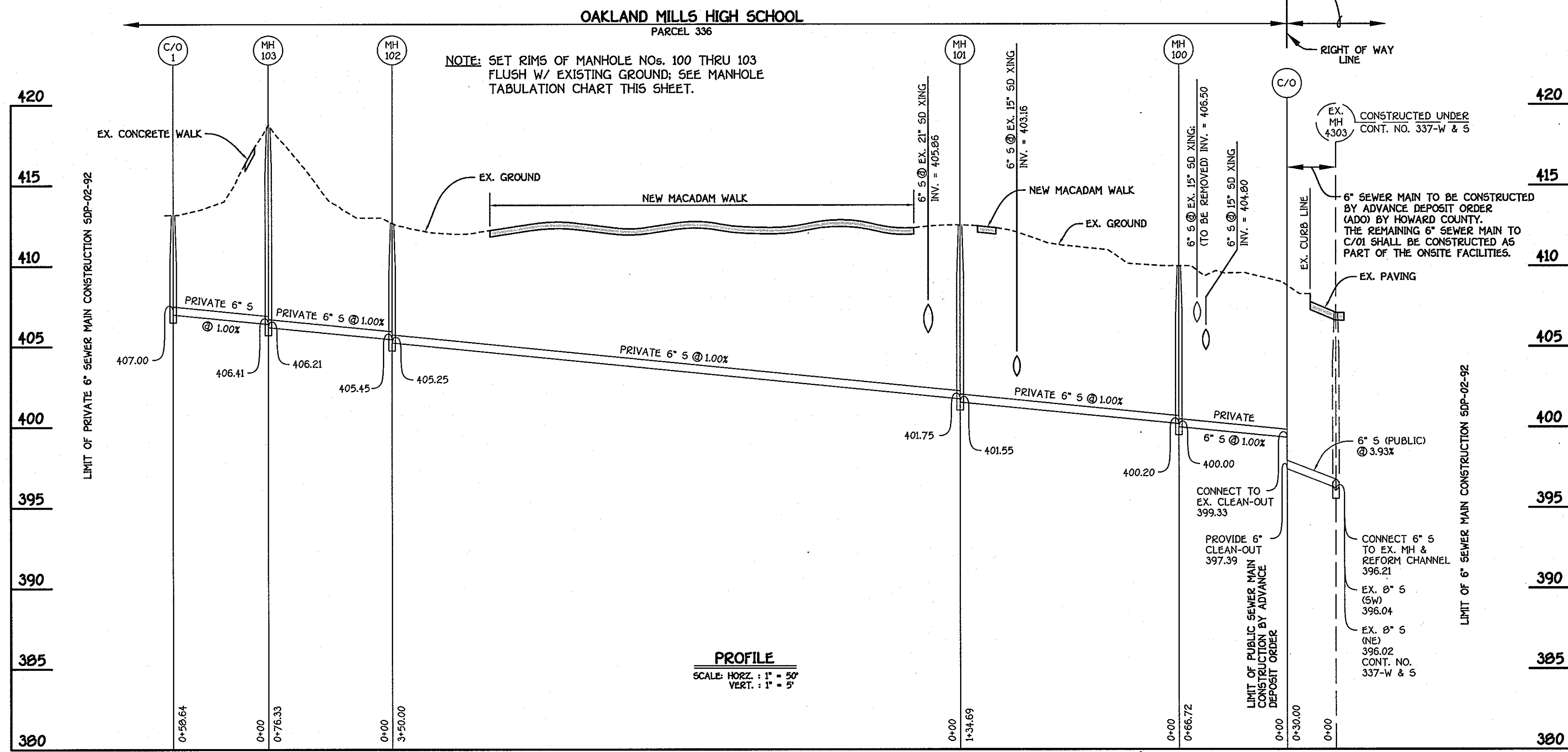
Address Chart	
Parcel Number	Street Address
336	9410 KILIMANJARO ROAD
PROJECT	
OAKLAND MILLS HIGH SCHOOL	SECTION/AREA 2/5
DEED REF. 590/12	BLOCK NO. 9
WATER CODE E 05	SEWER CODE 5414400

**STORM DRAIN DRAINAGE AREA MAP**  
 COLUMBIA  
 OAKLAND MILLS HIGH SCHOOL  
 LOT 1  
 VILLAGE OF OAKLAND MILLS  
 SECTION 2 AREA 5  
 BUILDING ADDITION AND  
 PARKING LOT ADDITION  
 TAX MAP No.: 36 PARCEL No.: 336  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCHEDULE: AS SHOWN DATE: 3 MAY 2002  
 BUILDING PERMIT/CD REVIEW 14 JUNE 02  
 "BID AND CONSTRUCTION 1 JULY 02"  
 SHEET 6 OF 11



NO.	NORTHING	EASTING	RIM ELEVATION
100*	56167.55	1358322.22	409.60
101*	561667.28	1358195.04	412.60
102*	561943.44	1357980.02	412.80
103*	562003.67	1357933.13	418.37

\* SET MH RIMS FLUSH W/ EXISTING GRADE



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

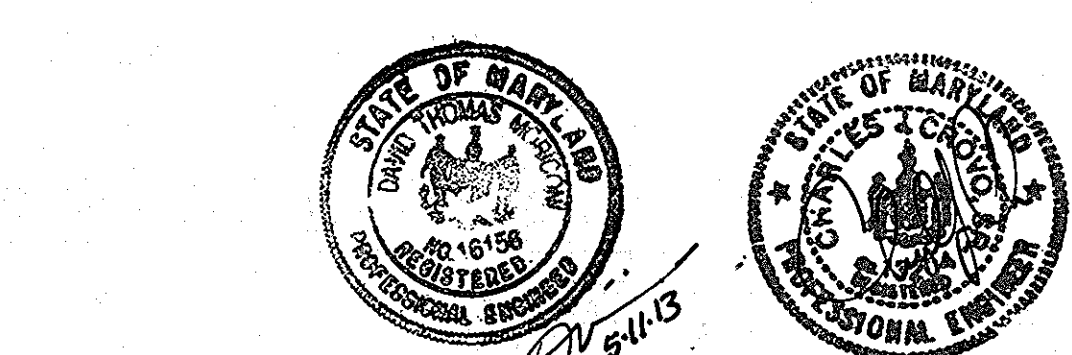
6" PRIVATE SEWER MAINS

STRUCTURE NO.	TOP ELEVATION	IN/IN	INV. OUT	NORTH	EAST	TYPE	REMARKS
I-1	399.2	397.63	397.63	561243.30	1357809.58	YARD INLET	S.D. 4.14
I-2	409.00	404.87	404.77	561568.43	1358302.64	PRECAST STD A-5	S.D. 4.40
I-3	406.98	405.10	404.97	561557.98	1358287.30	YARD INLET	S.D. 4.14
I-4	410.00	405.00	403.85	561690.79	1357563.75	PRECAST STD A-5	S.D. 4.40
I-5	411.00 *	---	405.90	561780.23	1357594.98	SINGLE WR INLET	S.D. 4.03
I-6	TOP 410.13 WEIR ELEV. 405.38	406.67	406.47	562011.28	1357783.19	1" INLET	S.D. 4.39
M-1	411.50	405.38	404.61	561783.13	1357576.80	PRECAST 4" DIA.	G-5.12
M-2	413.20	405.38	405.18	561866.16	1357569.07	PRECAST 4" DIA.	G-5.12
M-3	412.80	405.91	405.71	561899.86	1357640.07	PRECAST 4" DIA.	G-5.12
M-4	412.80	407.30	405.97	561935.11	1357605.34	PRECAST 4" DIA.	G-5.12

NOTE: A-5 INLETS WIDTH SHALL BE 24"  
\* TOP ELEVATION OF INLET I-5 SHALL BE 411.89 BASED ON AUXILIARY GYM ADDITION BEING CONSTRUCTED

SIZE	TYPE	LENGTH IN FEET
8"	HDPE	21'
10"	HDPE	118'
12"	HDPE	40'
15"	HDPE	112'
18"	HDPE	128'
24"	HDPE	293'

APPROVED  
PLANNING BOARD  
of HOWARD COUNTY  
DATE: 5/30/02  
PL



SEAL APPLIES TO REVOLINE NO. 1 - CHANGED SHEET NO.

ENGINEER'S CERTIFICATE

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

Signature of Engineer: *Wm. B. Ziegler*  
Date: 6/19/02

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer: *Wm. B. Ziegler*  
Date: 6-19-02

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Director: *John Smith* Date: 7/5/02

Chief, Division of Land Development: *Cindy Harvath* Date: 7/6/02

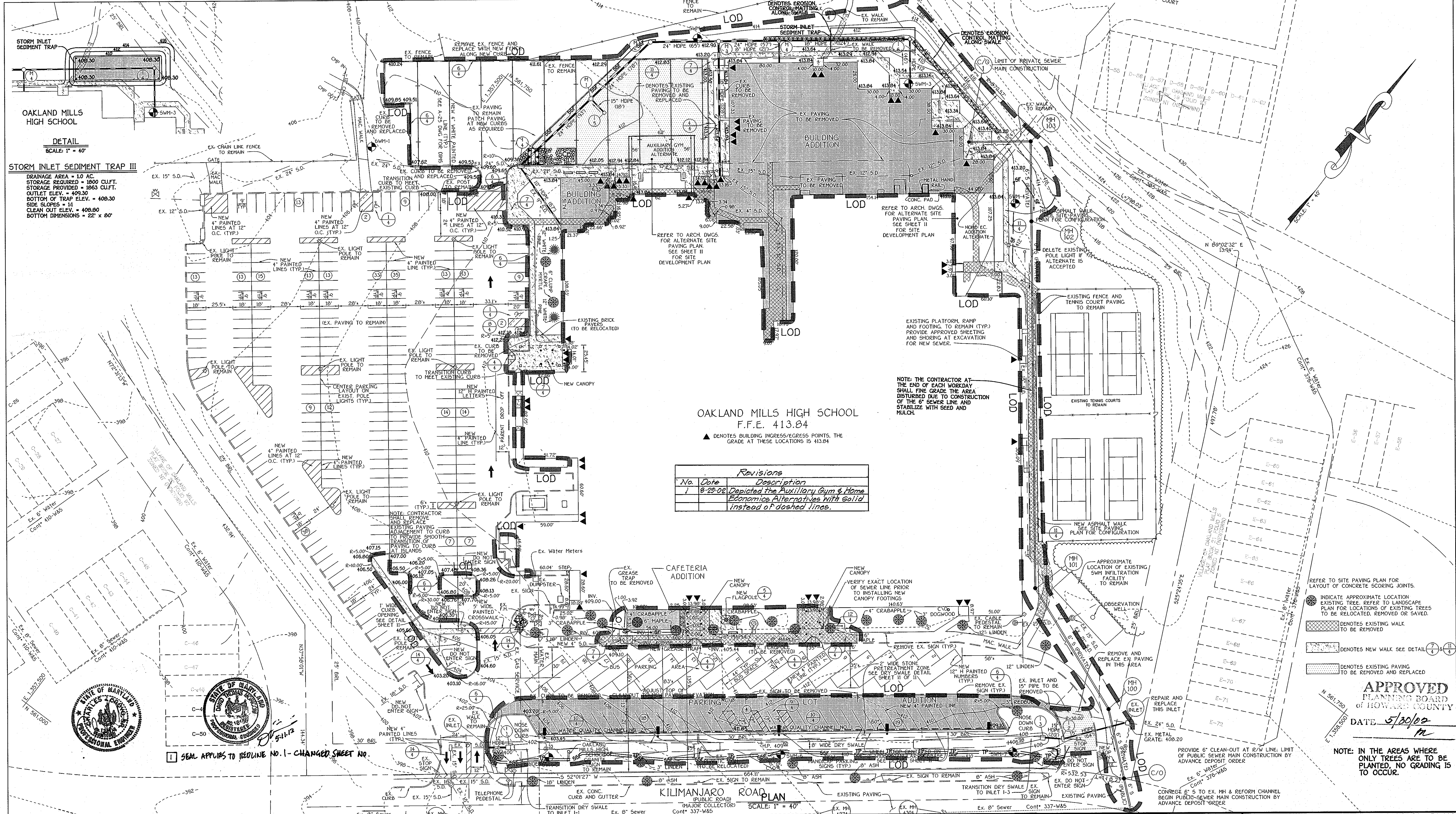
Chief, Development Engineering Division: *John Dammann* Date: 7/1/02

PREPARED FOR:  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention Cathleen Young

TCA ARCHITECTS  
2661 Riva Road, Suite 120  
Annapolis Maryland 21401  
301-261-8700

Address Chart	
Parcel Number: 336	Street Address: 9410 KILIMANJARO ROAD
PROJECT: OAKLAND MILLS HIGH SCHOOL	SECTION/AREA: 2/5
DEED REF. 590/12	BLOCK NO. 9
WATER CODE: E 05	SEWER CODE: 5414400

PRIVATE SEWER & STORM DRAIN PROFILES  
COLUMBIA  
OAKLAND MILLS HIGH SCHOOL  
LOT 1  
VILLAGE OF OAKLAND MILLS  
SECTION 2 AREA 5  
BUILDING ADDITION AND  
PARKING LOT ADDITION  
TAX MAP No: 36 PARCEL No: 336  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: 3 MAY 2002  
BUILDING PERMIT/CD REVIEW 14 JUNE 02  
"BID AND CONSTRUCTION 1 JULY 02"  
SHEET 7 OF 11

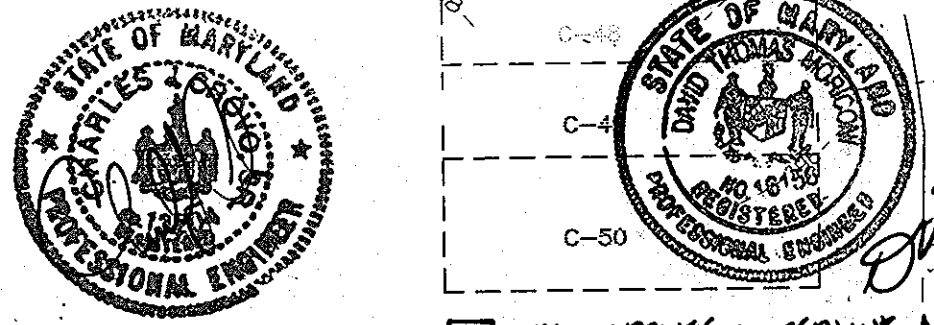


**OAKLAND MILLS HIGH SCHOOL**  
**DETAIL**  
 SCALE: 1" = 40'

**STORM INLET SEDIMENT TRAP III**  
 DRAINAGE AREA = 1.0 AC.  
 STORAGE REQUIRED = 1800 CU.FT.  
 STORAGE PROVIDED = 1263 CU.FT.  
 OUTLET ELEV. = 408.30  
 BOTTOM OF TRAP ELEV. = 408.30  
 SIDE SLOPES = 1:1  
 CLEAN OUT ELEV. = 408.80  
 BOTTOM DIMENSIONS = 22' x 80'

**OAKLAND MILLS HIGH SCHOOL**  
 F.F.E. 413.84  
 ▲ DENOTES BUILDING INGRESS/EGRESS POINTS, THE GRADE AT THESE LOCATIONS IS 413.84

No.	Date	Description
1	6-29-02	Depicted the Auxiliary Gym & Home Economics Alternatives with solid instead of dashed lines.



SEAL APPLIES TO REDLINE NO. 1 - CHANGED SHEET NO.

- REFER TO SITE PAVING PLAN FOR LAYOUT OF CONCRETE SCORING JOINTS.
- INDICATE APPROXIMATE LOCATION EXISTING TREE. REFER TO LANDSCAPE PLAN FOR LOCATIONS OF EXISTING TREES TO BE RELOCATED, REMOVED OR SAVED.
- DENOTES EXISTING WALK TO BE REMOVED
- DENOTES NEW WALK SEE DETAIL
- DENOTES EXISTING PAVING TO BE REMOVED AND REPLACED

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 5/30/02  
 M

NOTE: IN THE AREAS WHERE ONLY TREES ARE TO BE PLANTED, NO GRADING IS TO OCCUR.

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this Plan for Erosion and Sediment Control Represents a Practical and Workable Plan Based on My Personal Knowledge of the Site Condition and That It was Prepared in Accordance with the Requirements of the Howard Soil Conservation District.  
 Signature of Engineer: *[Signature]* Date: 6/19/02

**DEVELOPER'S CERTIFICATE**  
 I/We certify that All Development and Construction will be Done According to This Plan of Development and Plan for Erosion and Sediment Control and That All Responsible Personnel Involved in the Construction Project will Have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion Before Beginning the Project. I also Authorize Periodic On-site Inspection by the Howard Soil Conservation District or Their Authorized Agents, As Are Deemed Necessary.  
 Signature of Developer: *[Signature]* Date: 6/19/02

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Director: *[Signature]* Date: 7/1/02  
 Chief, Division of Land Development: *[Signature]* Date: 7/2/02  
 Chief, Development Engineering Division: *[Signature]* Date: 7/1/02

PREPARED FOR:  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
 10910 Maryland Route 108  
 Ellicott City, Maryland 21042  
 Attention Cathleen Young  
 TCA ARCHITECTS  
 2661 Riva Road, Suite 120  
 Annapolis Maryland 21401  
 301-261-8700

Address Chart

Parcel Number	Street Address
336	9410 KILIMANJARO ROAD

PLAT RECORDATION REFERENCE PLATBOOK 21 FOLIO 15 AND 16

PROJECT	SECTION/AREA	PARCEL
OAKLAND MILLS HIGH SCHOOL	2/5	336

DEED REF.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
590/12	9	NT	36	SIXTH	6066.03

WATER CODE: E 05  
 SEWER CODE: 5414400

**GRADING AND SEDIMENT CONTROL PLAN**  
**COLUMBIA**  
**OAKLAND MILLS HIGH SCHOOL**  
**LOT 1**  
**VILLAGE OF OAKLAND MILLS**  
**SECTION 2 AREA 5**  
**BUILDING ADDITION AND**  
**PARKING LOT ADDITION**  
 TAX MAP No: 36 PARCEL No: 336  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: 3 MAY 2002  
 BUILDING PERMIT/CD REVIEW 14 JUNE 02  
 "BID AND CONSTRUCTION 1 JULY 02"  
 SHEET 8 OF 11

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20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATION STABILIZATION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. Vegetation with vegetation the soil is less likely to erode and more likely to allow chemical rainfall, thereby reducing sediment loads and runoff to downstream areas, and improving wildlife habitat and visual resources.

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is derived from temporary seeding to quickly establish vegetative cover for short duration (up to one year) and permanent seeding for long term vegetation on erodible areas for temporary seeding to establish permanent seeding areas, denuded areas, and areas between construction phases, earth cuts, etc. and for permanent seeding in lawns, dunes, cut and fill slopes and other areas of final grade, staging areas, etc.

**EFFECTS ON WATER QUALITY AND QUANTITY**  
Planting vegetation in disturbed areas will have an effect on the water budget, especially on volume and rates of runoff. Irrigation equipment, transportation equipment, and construction equipment will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediments, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

Sediment control devices must remain in place during seeding, seeding, mowing, and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

**SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS**

1. Install erosion and sediment control structures (fence posts or permanent such as diversions, grade stabilization structures, berms, waterbars, or sediment control) in right-of-way areas as indicated on the plans. Final grading and shaping is not usually necessary for temporary seeding.

2. Schedule soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 1000 sq. ft.

3. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5,000 sq. ft. Soil samples taken for engineering purposes may also be used for chemical analyses.

4. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Material may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall be delivered to the site fully labeled according to the applicable state fertilizer laws and shall be in the original container and unopened.

5. Lime shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 90% total available calcium oxide plus magnesium oxide. Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and at least 10% will pass through a #20 mesh sieve.

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

7. Apply fertilizer and lime to the top 3-5" of soil by diking or other suitable means.

8. Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment. Seeding shall be done by hand or by means of a seed spreader. After the soil is loosened it should not be regraded or compacted. Seeding shall be done by hand or by means of a seed spreader. After the soil is loosened it should not be regraded or compacted.

9. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then subsoiled or otherwise loosened to a depth of 3" to 5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.

10. Apply soil amendments as per soil test or as included on the plans.

11. Mix soil amendments into the top 3-5" of topsoil by diking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and lumps, and ready the area for seed application. Where site conditions will not permit normal seeded preparation, loosen surface soil by digging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 3-5" of soil should be loose and friable. Seeded broadcast should not be necessary on newly disturbed areas.

**Method of Seeding**  
1. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer) broadcast or drop seeded to a 4" depth.

2. Fertilizer: Fertilizer shall be applied at the time of seeding, the application rates amounts will not exceed the following: Nitrogen maximum of 100 lbs. per acre total of soluble nitrogen; Phosphorus maximum of 120 lbs. per acre total of soluble phosphorus.

3. Line - use only ground agricultural limestone, 0 to 10 tons per acre may be applied by hydroseeder. Normal rates more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

4. Seed and fertilizer shall be mixed on site and shall be done immediately and without interruption.

5. Dry Seeding: This includes use of conventional drop or broadcast spreaders.  
a. Seed spread dry shall be incorporated into the soil at the rates prescribed on the drawings or temporary seeding samples or tables 200 or 300. The seeded area shall be covered with straw or other suitable material to prevent wind erosion.  
b. When the seed is applied, it shall be applied in a homogeneous manner.  
c. Seed and fertilizer shall be mixed on site and shall be done immediately and without interruption.

6. Drill or Catpawker Seeding: Mechanized seeders that apply and cover seed with soil.  
a. Catpawker seeders shall be used for all areas where seed is applied to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.  
b. Where practical use two directions perpendicular to each other.  
c. Apply half the seeding rate in each direction.

**Match Specifications in order of preference:**  
1. Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall be free of weed seeds, excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.  
2. Wood Closures: a. WCH shall consist of specially prepared wood cellulose processed into a uniform fibrous structure. b. WCH shall be free from any green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformity of the WCH. c. WCH material shall be manufactured and processed in such a manner that the wood cellulose fiber mat will remain in uniform suspension in water under agitation and will bond with seed, fertilizer and other additives to form a homogeneous slurry. The mat material shall form a batter-like ground cover, on application hitting moisture absorption and germination properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. d. WCH material shall contain no elements or compounds of concentration that will be phytotoxic. e. WCH must conform to the following physical requirements: fiber length to 1000 microns; moisture content to 100% maximum and water holding capacity of 500% minimum.

3. Mulch: a. Mulch shall be applied to all seeded areas immediately after seeding. b. If a mulch is used, it shall be applied to all seeded areas immediately after seeding. c. The mulch shall be applied to all seeded areas immediately after seeding. d. The mulch shall be applied to all seeded areas immediately after seeding.

4. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to all seeded areas immediately after seeding. Mulch shall be applied to all seeded areas immediately after seeding. Mulch shall be applied to all seeded areas immediately after seeding.

5. Wood cellulose fiber mulch shall be applied to all seeded areas immediately after seeding. Wood cellulose fiber mulch shall be applied to all seeded areas immediately after seeding. Wood cellulose fiber mulch shall be applied to all seeded areas immediately after seeding.

6. Application: a. Mulch shall be applied to all seeded areas immediately after seeding. b. Mulch shall be applied to all seeded areas immediately after seeding. c. Mulch shall be applied to all seeded areas immediately after seeding.

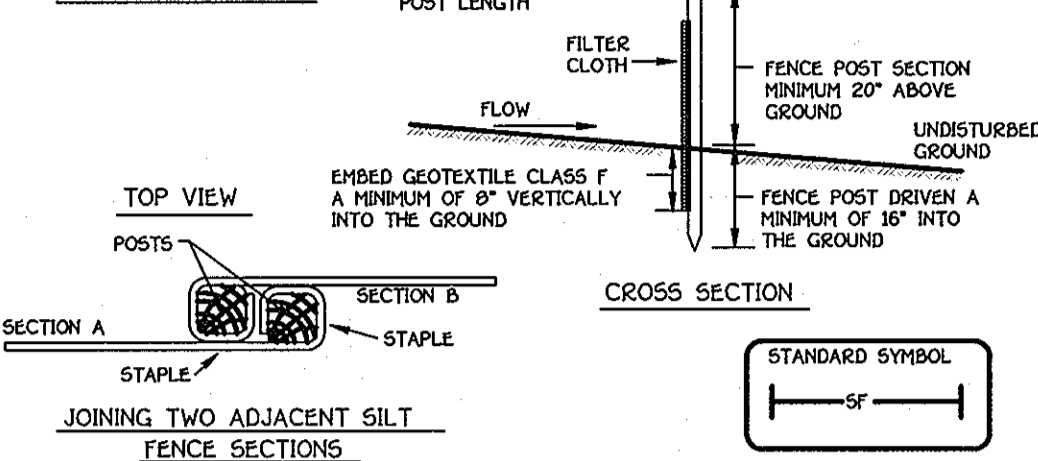
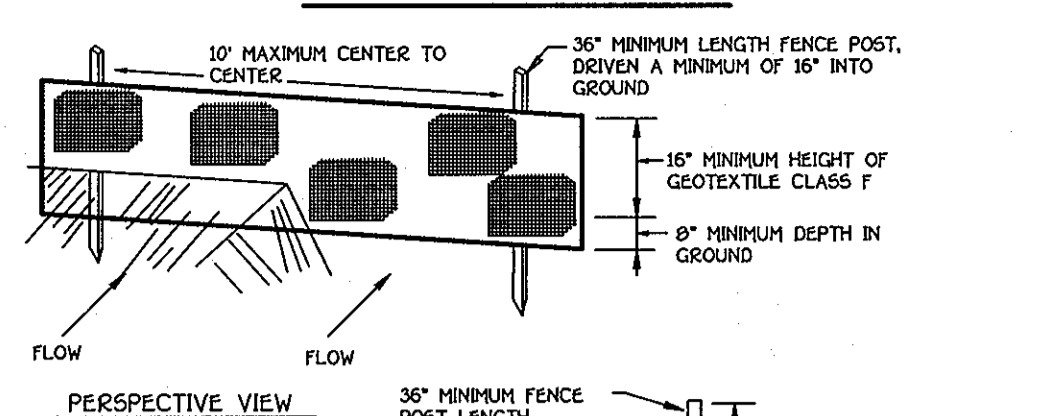
7. Incremental Stabilization - Cut Slopes: a. All cut slopes shall be graded, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in equal increments not to exceed 10'. b. Construction sequence (refer to Figure 3 below): i. Excavate and stabilize all temporary erosion, side ditches, or berms that will be used to convey runoff from the excavation. ii. Perform Phase 1 excavation, dress and stabilize. iii. Perform Phase 2 excavation, dress and stabilize. iv. Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

8. Once excavation has begun the operation should be continuous from grading through the completion of grading and placement of topsoil of required and permanent seed and mulch. Any interruption in the operation of the seeding season will necessitate the application of temporary stabilization.

9. Incremental Stabilization - Fill Slopes: a. Embankments shall be constructed in lifts as prescribed on the plans. b. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 10', or when the grading operation ceases at a previously established lift. c. The operation of the embankment to intercept surface runoff and convey it down the slope in a non-eroding manner to the toe of the embankment shall be maintained throughout the construction process. d. Construction sequence: Refer to Figure 4 below. i. Excavate and stabilize all temporary erosion, side ditches, or berms that will be used to convey runoff around the fill. ii. Construct slope side fill on low side of fill as shown in Figure 4, unless other methods shown on the plans address this area. c. Place final phase embankment, dress and stabilize. d. Place final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

10. Note: Once the placement of fill has begun the operation should be continuous from grading through the completion of grading and placement of topsoil of required and permanent seed and mulch. Any interruption in the operation of the seeding season will necessitate the application of temporary stabilization.

**SILT FENCE**



**Construction Specifications**

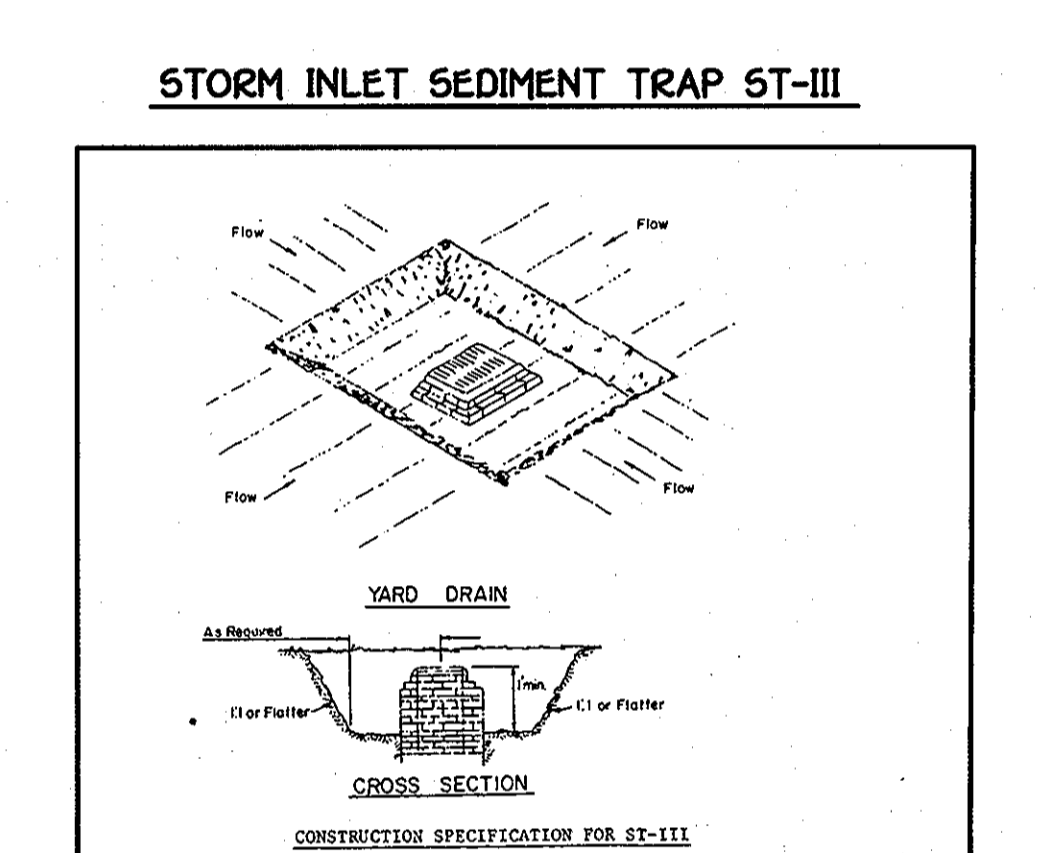
- Fence posts shall be a minimum of 36' long driven 16' minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 100 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent topsoil from passing.

4. Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reduces 50% of the fabric height.

**STORM INLET SEDIMENT TRAP ST-III**



**Construction Specifications for ST-III**

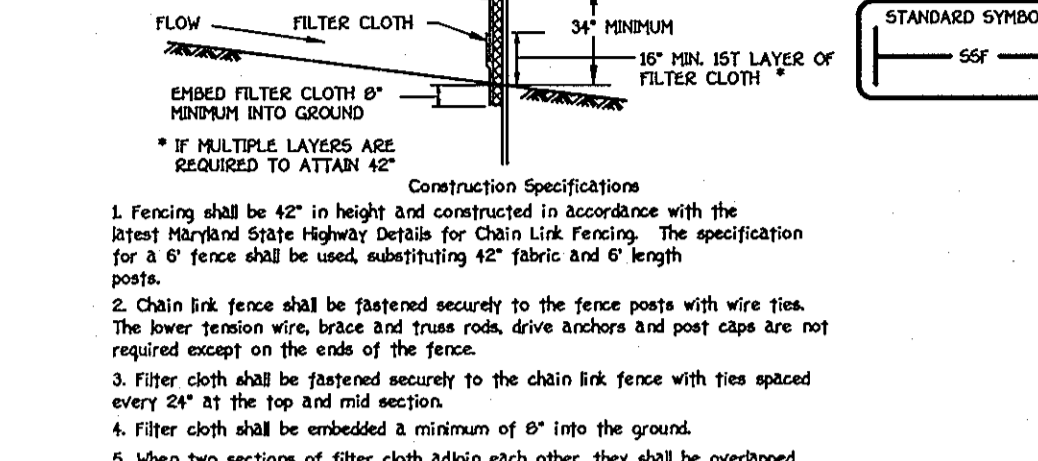
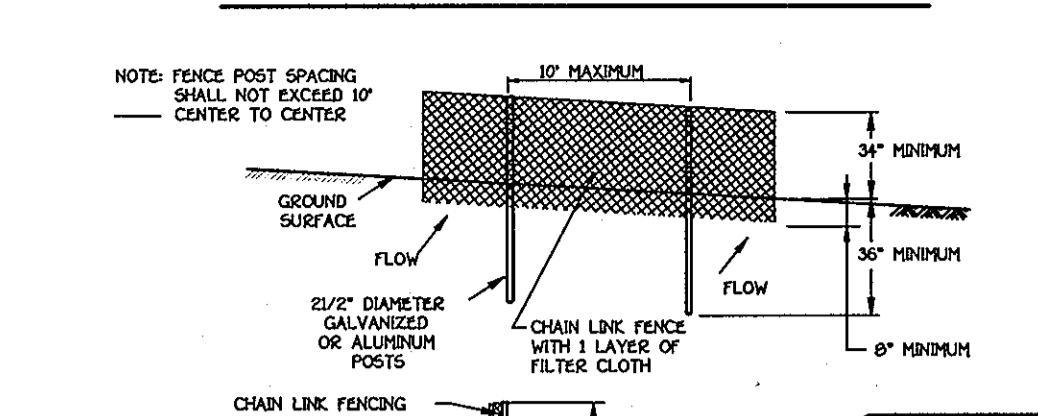
- Sediment shall be removed and the trap returned to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

No.	DATE	DESCRIPTION
1	6-27-12	REVISED SITE ANALYSIS, ADDED CONCESSION STAND SEQUENCE OF CONSTRUCTION.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
POLY-ESTER FIBER MAT AND  
STORM INLET SEDIMENT TRAP  
ST-III  
STANDARD DRAWING

NOTE: THESE SEEDING SPECIFICATIONS ARE THE MINIMUM REQUIRED FOR SEDIMENT CONTROL. REFER TO PROJECT SPECIFICATIONS FOR SEEDING REQUIREMENTS FOR OTHER AREAS OF THE SITE.

**SUPER SILT FENCE**



**Construction Specifications**

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for 42" fabric shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, below and above road, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 6" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt bulges removed when "bulges" develop in the filter cloth, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent topsoil from passing.

4. Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reduces 50% of the fabric height.

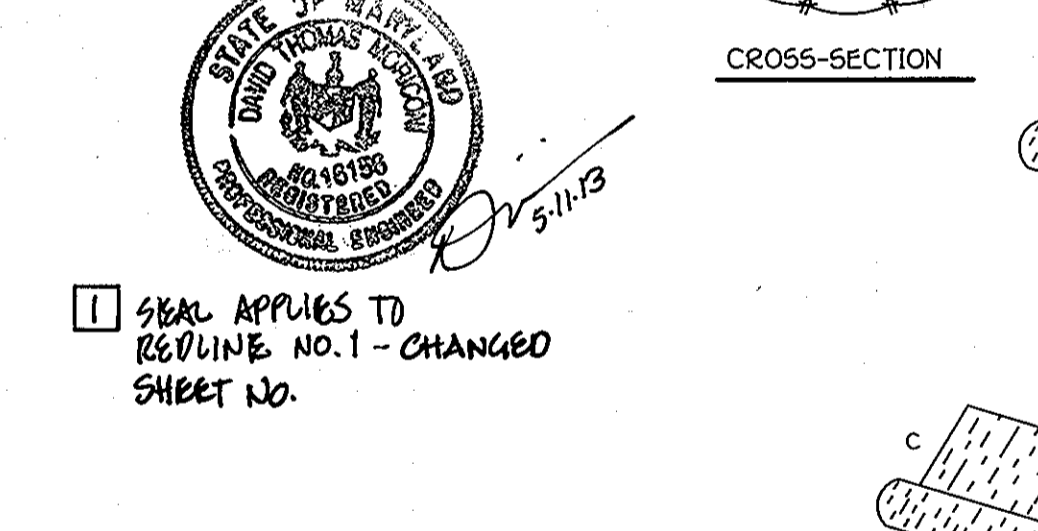
**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS (O-1 AND O-2)**

A. The open channel system shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.  
B. The open channel shall be mowed a minimum of once during the growing season to maintain a maximum grass height of less than 6 inches.  
C. Debris and litter shall be removed during regular mowing operations and as needed.  
D. Visible signs of erosion in the open channel system shall be repaired as soon as it is noticed.  
E. Remove silt from the open channel system when it exceeds 25% of the original W.V.

**CONCESSION STAND SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- NOTIFY "MIS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 410-313-1330 24 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS (1 DAY). INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)
- INSTALL SILT FENCE AND SUPER SILT FENCE (3 DAYS). THE 5 MEMORIAL TREES SHALL BE RELOCATED AS SHOWN ON THE LANDSCAPE PLAN. TREE PROTECTION FENCE SHALL BE INSTALLED ALONG THE MEMORIAL TREES AND ALL OTHERS THAT ARE SHOWN WITH THE SYMBOL. E
- GRADE SITE TO SUBGRADE (2 WEEKS). STABILIZE ALL SLOPES IMMEDIATELY UPON COMPLETION OF GRADING.
- INSTALL STORM DRAIN SYSTEM FROM I-4 TO I-6. INSTALL INLET PROTECTION AT I-6 (2 DAYS). CONSTRUCT INLET SEDIMENT TRAP AND STABILIZE WITH TEMPORARY SEEDING. AFTER EACH RAINFALL REMOVE SEDIMENT FROM THE TRAP.
- CONSTRUCT SITE UTILITIES. (3 WEEKS)
- CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
- STABILIZED ALL DISTURBED AREAS AND OBTAIN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED.
- WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE DEVICES MAY BE REMOVED AND/OR BACKFILLED AND THE REMAINING AREAS BROUGHT TO FINAL DESIGN GRADE. STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 WEEKS)
- THE PROPOSED BMP FACILITY OR DRY SWALE SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE PARKING LOT EXPANSION. HOWEVER, SILT FENCE SHALL BE PROVIDED ALONG TOP OF BANK FOR THE SWALE UNTIL SUCH TIME AS THE SITE IS FULLY STABILIZED AND GRASS HAS TAKEN HOLD.
- THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
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- NOTIFY HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS FOR FINAL INSPECTION OF THE COMPLETED PROJECT.

**EROSION CONTROL MATTING**



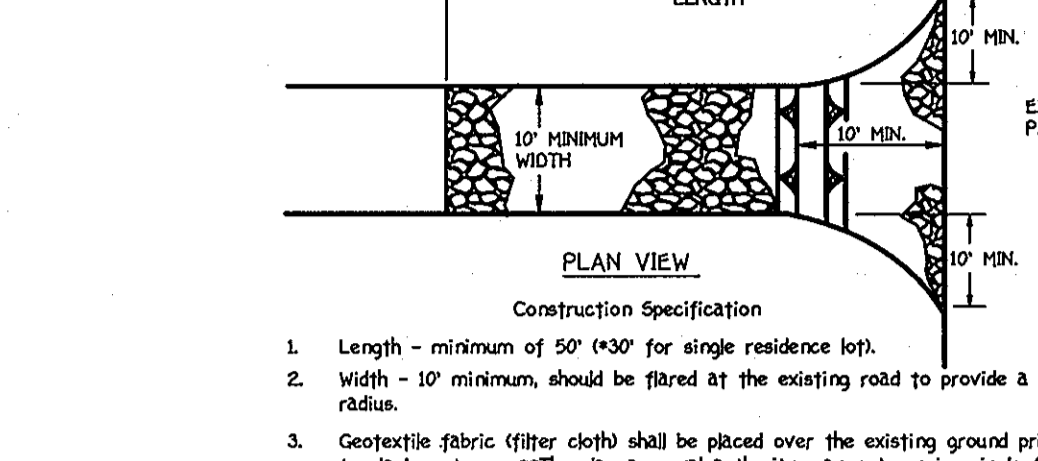
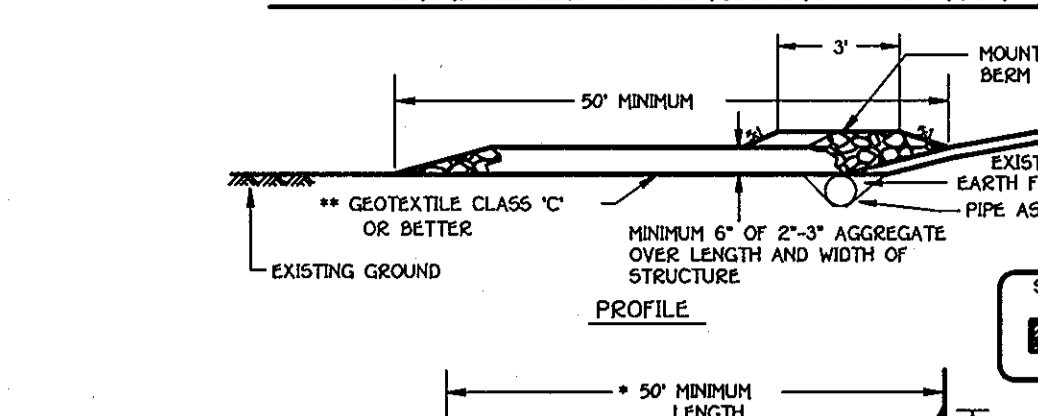
**Construction Specifications**

- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples spaced 4' down slope from the trench. Spacing between staples is 6".
- Staple the 4" overlap in the channel center using an 18" spacing between staples.
- Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shingle fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
- The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

Note: If flow will enter from the edge of the matting then the area affected by the flow must be key-in.

APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 6/30/02  
DATE: 6/19/02  
DATE: 6/27/02

**STABILIZED CONSTRUCTION ENTRANCE**



**Construction Specifications**

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be fitted at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

**CONSTRUCTION STAND SEQUENCE OF CONSTRUCTION**

- OBTAIN A GRADING PERMIT.
- NOTIFY "MIS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 410-313-1330 24 HOURS BEFORE STARTING WORK.
- INSTALL ALL TREE PROTECTION FENCE FOR TREES TO BE UNDISTURBED AS INDICATED ON THE PLANS. INSTALL STABILIZED CONSTRUCTION ENTRANCE. (1 DAY)
- CONSTRUCT CONCESSION STAND. (2 MONTHS)
- CONSTRUCT SITE UTILITIES. (3 WEEKS)
- CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
- STABILIZED ALL DISTURBED AREAS AND OBTAIN PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED.
- WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE DEVICES MAY BE REMOVED AND/OR BACKFILLED AND THE REMAINING AREAS BROUGHT TO FINAL DESIGN GRADE. STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 WEEKS)
- REMOVE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
- REMOVE SILT FROM THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL W.V.

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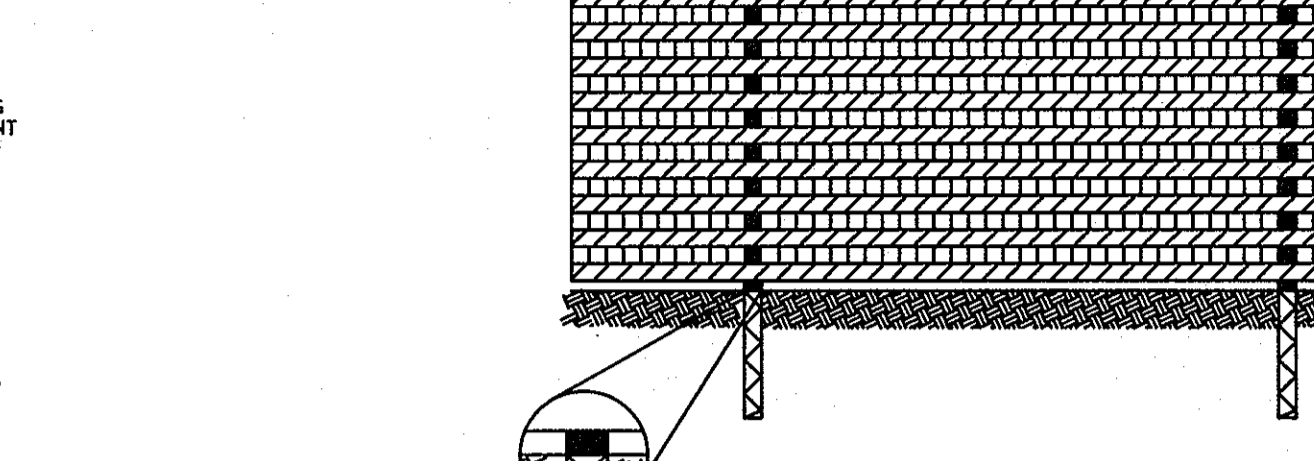
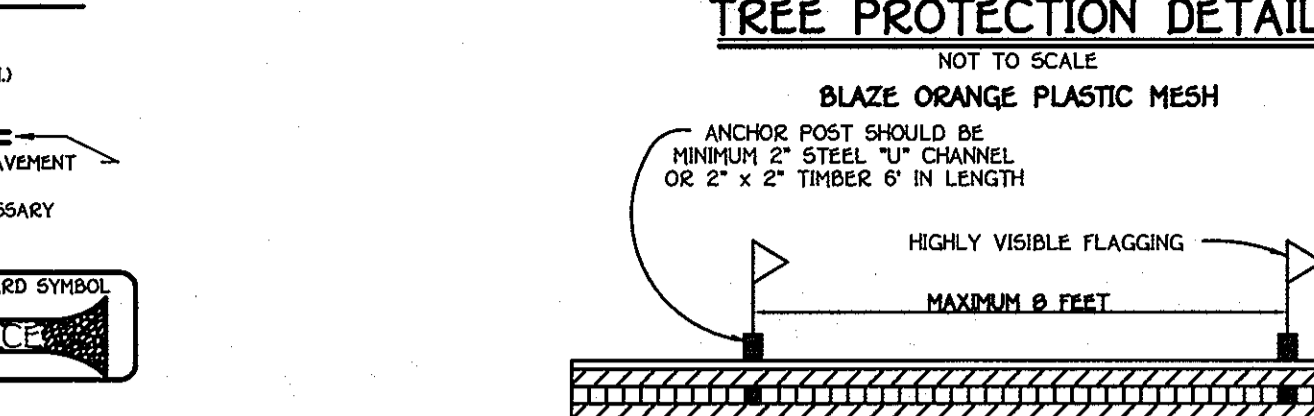
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APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 6/30/02  
DATE: 6/19/02  
DATE: 6/27/02

**TREE PROTECTION DETAIL**



**Construction Specifications**

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be fitted at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may require single family residences to use geotextile.
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**SCHEDULE A PERIMETER LANDSCAPE EDGE**

PERIMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NET REMAINING PERIMETER LENGTH	CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED	NUMBER OF PLANTS PROVIDED		
							SHADE TREES	EVERGREEN TREES	SHRUBS	SHRUBS
P-1	ADJACENT TO ROADWAY	E	460'	NO	-	NO	12	0	15	17*
P-2	ADJACENT TO PERIMETER	C	175'	NO	-	NO	5	0	0	12**

\* 50 MORE SHRUBS ARE REQUIRED TO BE PLANTED IN PERIMETER P-1. WE ARE SUBSTITUTING 1 SHADE TREE FOR 10 SHRUBS  
 \*\* 2 EVERGREENS WERE SUBSTITUTED FOR 1 SHADE TREE

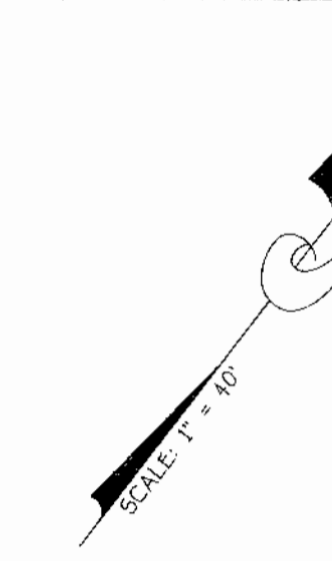
**PLANTING NOTES:**

- THIS PLAN IS TO BE USED FOR PLANTING ONLY.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK. ALL GENERAL NOTES FROM SHEET D, SHALL APPLY.
- FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK. WHERE PLANT LOCATIONS ARE DIMENSIONED, CONTACT CONSTRUCTION MANAGER IF ANY RELOCATIONS ARE REQUIRED.
- PLANT QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE.
- ALL PLANT MATERIALS SHALL BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, CONFORM TO THE A.A.N. SPECIFICATIONS, AND BE INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED OR MULCHED SHALL BE SEEDED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
- ALL EXPOSED EARTH WITHIN THE LIMITS OF THE PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER PLANTING DETAILS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF SOIL OR DRAINAGE CONDITIONS ARE ENCOUNTERED WHICH MAY BE DETERIMENTAL TO THE GROWTH OF PLANTS.
- ANY EXISTING PLANT MATERIAL INDICATED TO REMAIN, WHICH IS DAMAGED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED WITH NEW PLANT MATERIAL OF SAME SPECIES AND SIZE. NEW MATERIAL SHALL BE SUBJECT TO SAME GUARANTEE AS ALL NEW PLANT MATERIAL.
- ALL EXISTING PLANT MATERIAL ADJACENT TO EXISTING BUILDING, NOT INDICATED TO REMAIN, SHALL BE REMOVED, INCLUDING ROOT SYSTEM.
- EXISTING MEMORIAL TREES (5 TOTAL) AND RELATED PLAQUES SHALL BE CAREFULLY REMOVED AND RELOCATED AS SHOWN BEFORE CONSTRUCTION WORK STARTS IN AFFECTED AREA. ANY OF THESE TREES THAT ARE NOT IN HEALTHY CONDITION AT END OF PROJECT SHALL BE REPLACED BY NEW TREE OF SAME SPECIES AND SIZE.
- REFER TO OTHER SITE DWGS. FOR ADDITIONAL SEEDING REQUIREMENTS.

NOTE: AT THE TIME OF INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE TO THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OF RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING.

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY

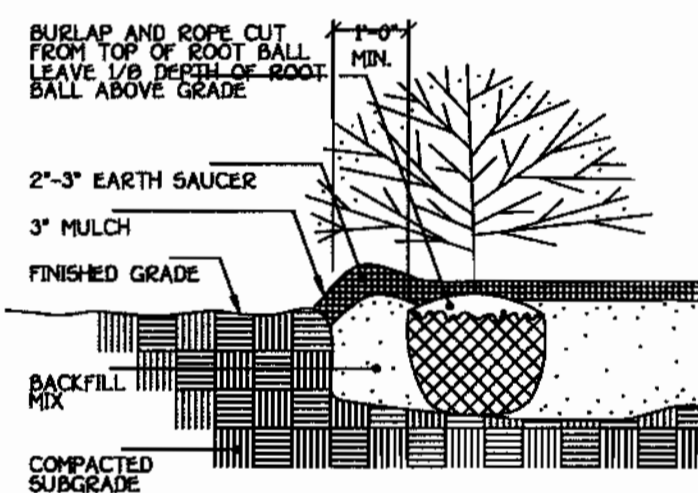
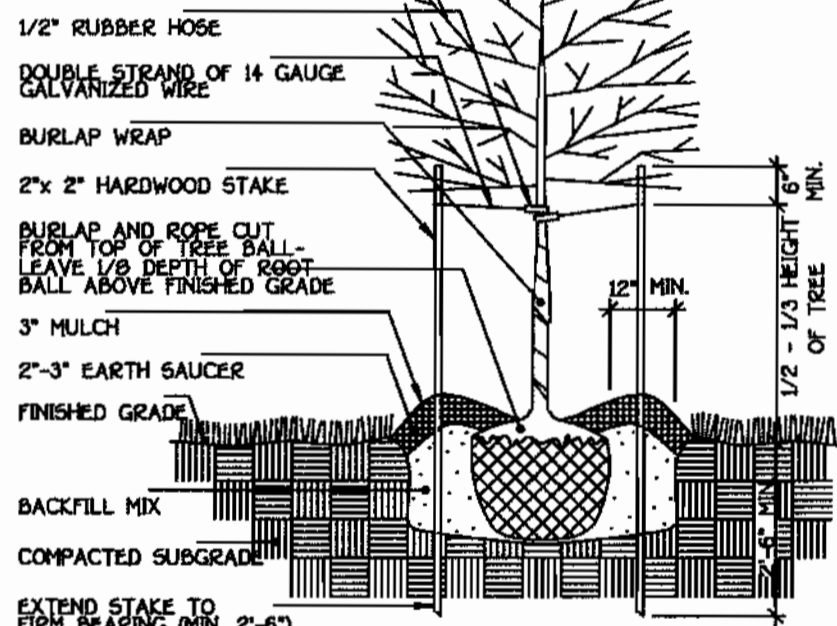
DATE: 5/10/02  
 BL



NOTE: IN THE AREAS WHERE ONLY TREES ARE TO BE PLANTED, NO GRADING IS TO OCCUR.

NOTE: SEE NOTE 4 IN SEQUENCE OF CONSTRUCTION ON SHEET 9 REGARDING TREE PROTECTION FENCE.

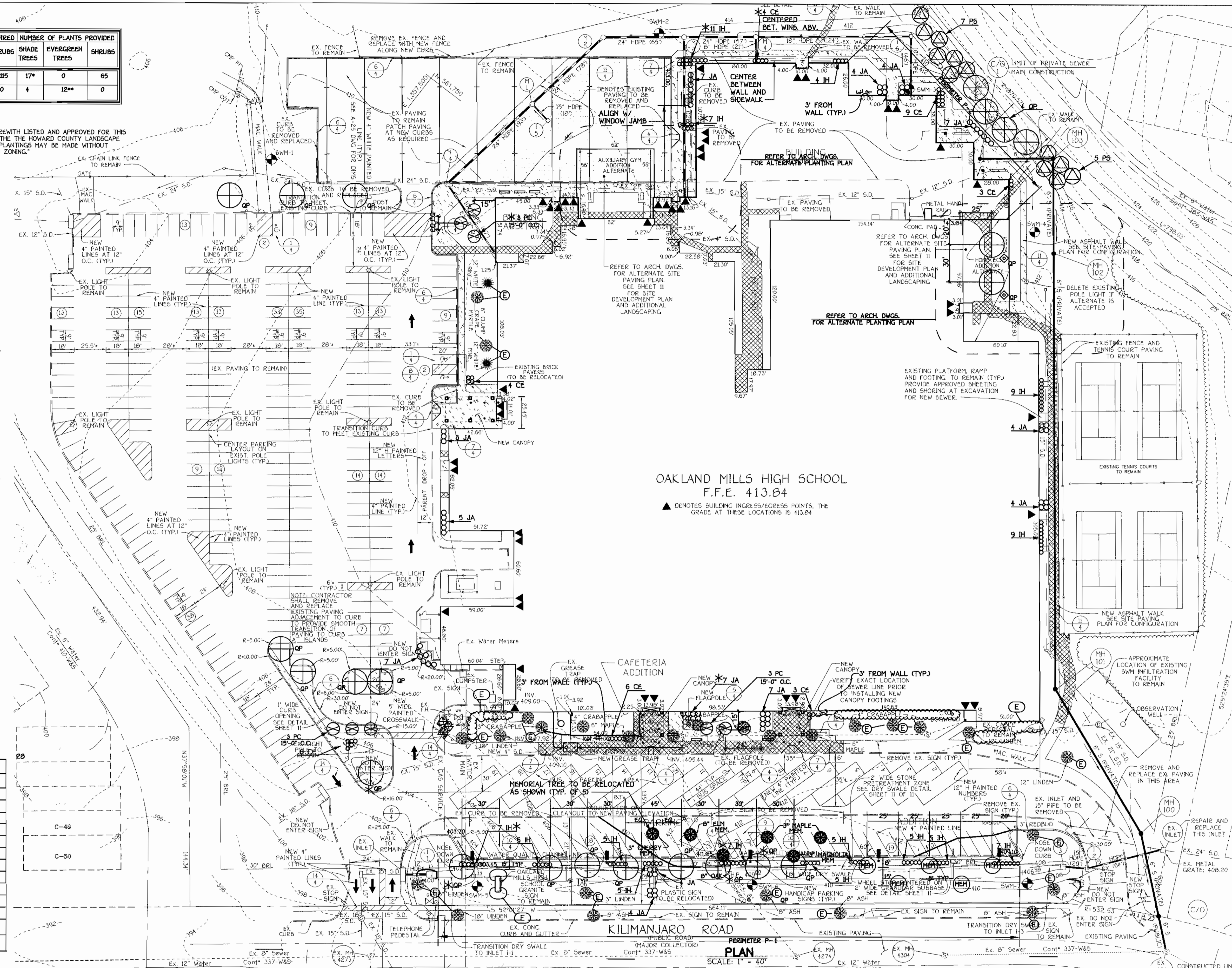
No.	Date	Revisions
1	5-20-02	Depicted Auxiliary Gym & Home Economics Alternative with solid instead of dashed lines.



**PLANT LIST**

KEY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	REMARKS	QUANTITY
QP	⊕	QUERCUS PALUSTRIS	PIN OAK	2 1/2\"/>		
PC	⊕	PRUNUS CERASIFERA	THUNDERCLOUD	1 1/2\"/>		
CE	⊕	ALATIS COMPACTUS	DWARF-WINGED EUONYMUS	30\"/>		
IH	⊕	ILEX CREMATA 'HETZI'	HETZ JAPANESE HOLLY	24\"/>		
JA	⊕	JUNIPERUS ANDORRA	ANDORRA JUNIPER	18\"/>		
PS	⊕	PINUS STROBUS	EASTERN WHITE PINE	10\"/>		

⊕ INDICATES EXISTING TREE(S) OR SHRUB(S) TO REMAIN  
 U.O.N. - UNLESS OTHERWISE NOTED  
 \* INDICATES LOCATIONS WHERE CONTRACTOR MUST HAND DIG FOR NEW TREES AND SHRUBS AFTER VERIFYING LOCATIONS OF UTILITIES.  
 ⊕ INDICATES PLANT MATERIAL AFFECTED BY ALTERNATE (S). REFER TO PROJECT SPECIFICATIONS.  
 SCOPE INCLUDES REMOVAL TO GROUND LEVEL OR PRUNING AS DIRECTED OF UP TO TEN (10) EXISTING TREES IN THE EXISTING TREE MASSSES THAT REMAIN AFTER CLEARING. TREES AND BRANCHES RESULTING FROM THIS OPERATION SHALL BE REMOVED FROM SITE.  
 QUANTITIES DO NOT REFLECT PLANT MATERIAL ADDED OR OMITTED DUE TO ALTERNATES. REFER TO ARCH. DWGS. FOR ALTERNATE PLANTING PLANS AND PROJECT SPECIFICATIONS.



OAKLAND MILLS HIGH SCHOOL  
 F.F.E. 413.84

▲ DENOTES BUILDING INGRESS/EGRESS POINTS, THE GRADE AT THESE LOCATIONS IS 413.84

PERIMETER P-1  
 PLAN  
 SCALE: 1" = 40'

**ENGINEER'S CERTIFICATE**

I hereby certify that this Plan for Erosion and Sediment Control Represents A Practical And Workable Plan Based On My Personal Knowledge Of The Site Condition And That It Was Prepared In Accordance With The Requirements Of The Howard Soil Conservation District.

*[Signature]*  
 Signature Of Engineer  
 6/9/02  
 Date

**DEVELOPER'S CERTIFICATE**

I/We Certify That All Development And Construction Will Be Done According To This Plan Of Development And Plan For Erosion And Sediment Control And That All Responsible Personnel Involved In The Construction Project Will Have A Certificate Of Attendance At A Department Of Natural Resources Approved Training Program For The Control Of Sediment And Erosion Before Beginning The Project. I Also Authorize Periodic On-Site Inspection By The Howard Soil Conservation District Or Their Authorized Agents, As Are Deemed Necessary.

*[Signature]*  
 Signature Of Developer  
 6-14-02  
 Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
 Director, Department of Planning and Zoning  
 7/5/02  
 Date

*[Signature]*  
 Chief, Division of Land Development  
 7/2/02  
 Date

*[Signature]*  
 Chief, Department of Engineering Division  
 7/1/02  
 Date

PREPARED FOR  
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM

10910 Maryland Route 108  
 Ellicott City, Maryland 21042  
 Attention Cathleen Young

TCA ARCHITECTS  
 2661 Riva Road, Suite 120  
 Annapolis Maryland 21401  
 301-261-8700

Address Chart

Parcel Number	Street Address
336	9410 KILIMANJARO ROAD

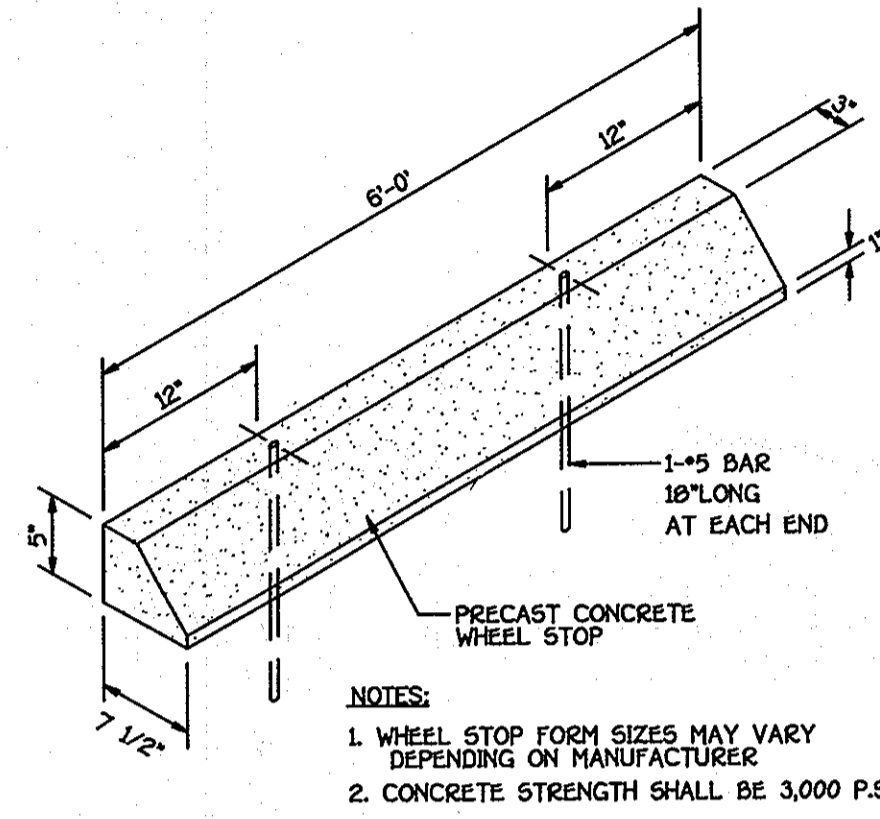
PROJECT	SECTION/AREA	PARCEL
OAKLAND MILLS HIGH SCHOOL	2/5	336
DEED REF.	BLOCK NO.	TAX/ZONE
590/12	9	NT 36
WATER CODE	ELEC. DIST.	CENSUS TR.
E 05	SIXTH	6066.03
	SEWER CODE	
	5414400	

**LANDSCAPE PLAN**

COLUMBIA  
 OAKLAND MILLS HIGH SCHOOL  
 LOT 1  
 VILLAGE OF OAKLAND MILLS  
 SECTION 2 AREA 5  
 BUILDING ADDITION AND  
 PARKING LOT ADDITION  
 TAX MAP NO: 36 PARCEL NO: 336  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: AS SHOWN DATE: 3 MAY 2002  
 BUILDING PERMIT/CD REVIEW  
 14 JUNE 02  
 "BID AND CONSTRUCTION 1 JULY 02"  
 SHEET 10 OF 11

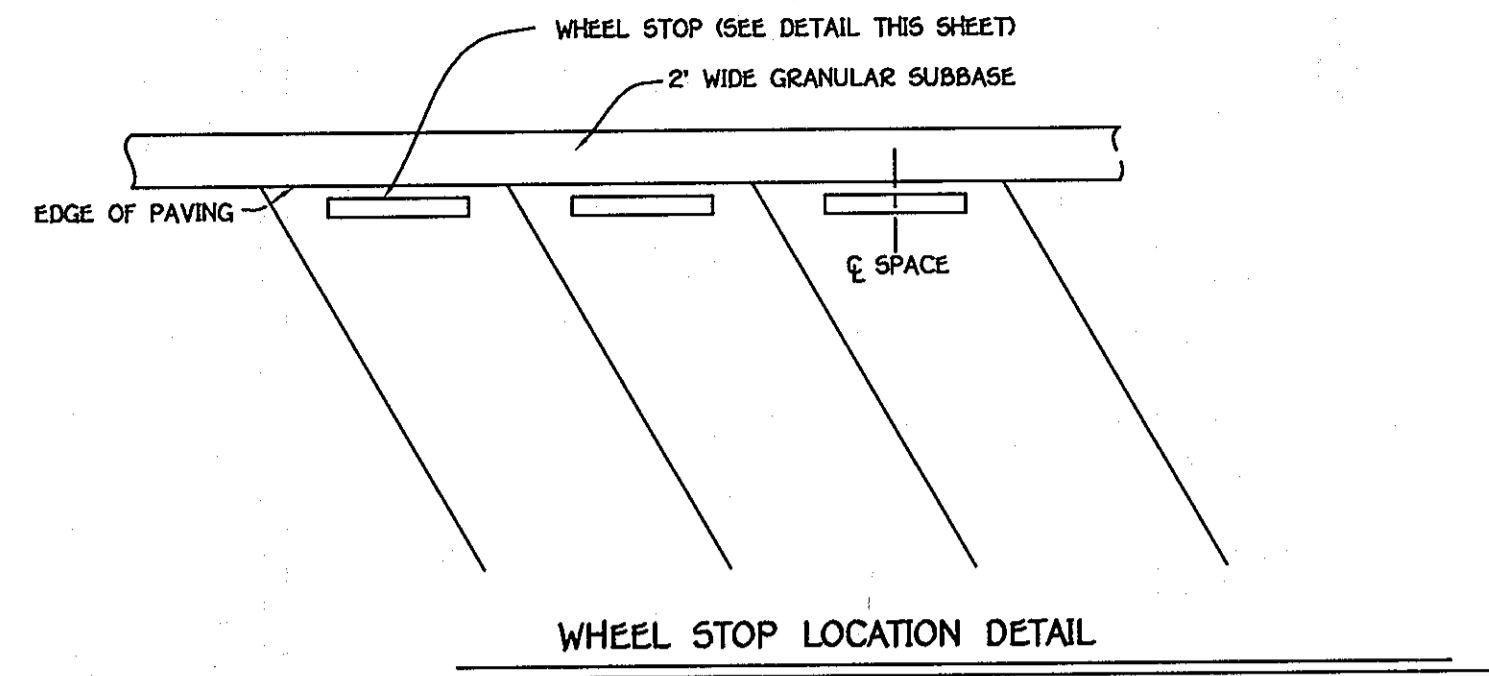
**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS (O-1 AND O-2)**

- A. The open channel system shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.
- B. The open channel shall be mowed a minimum of as needed during the growing season to maintain a maximum grass height of less than 6 inches.
- C. Debris and litter shall be removed during regular mowing operations and as needed.
- D. Visible signs of erosion in the open channel system shall be repaired as soon as it is noticed.
- E. Remove silt in the open channel system when it exceeds 25% of the original WQV.

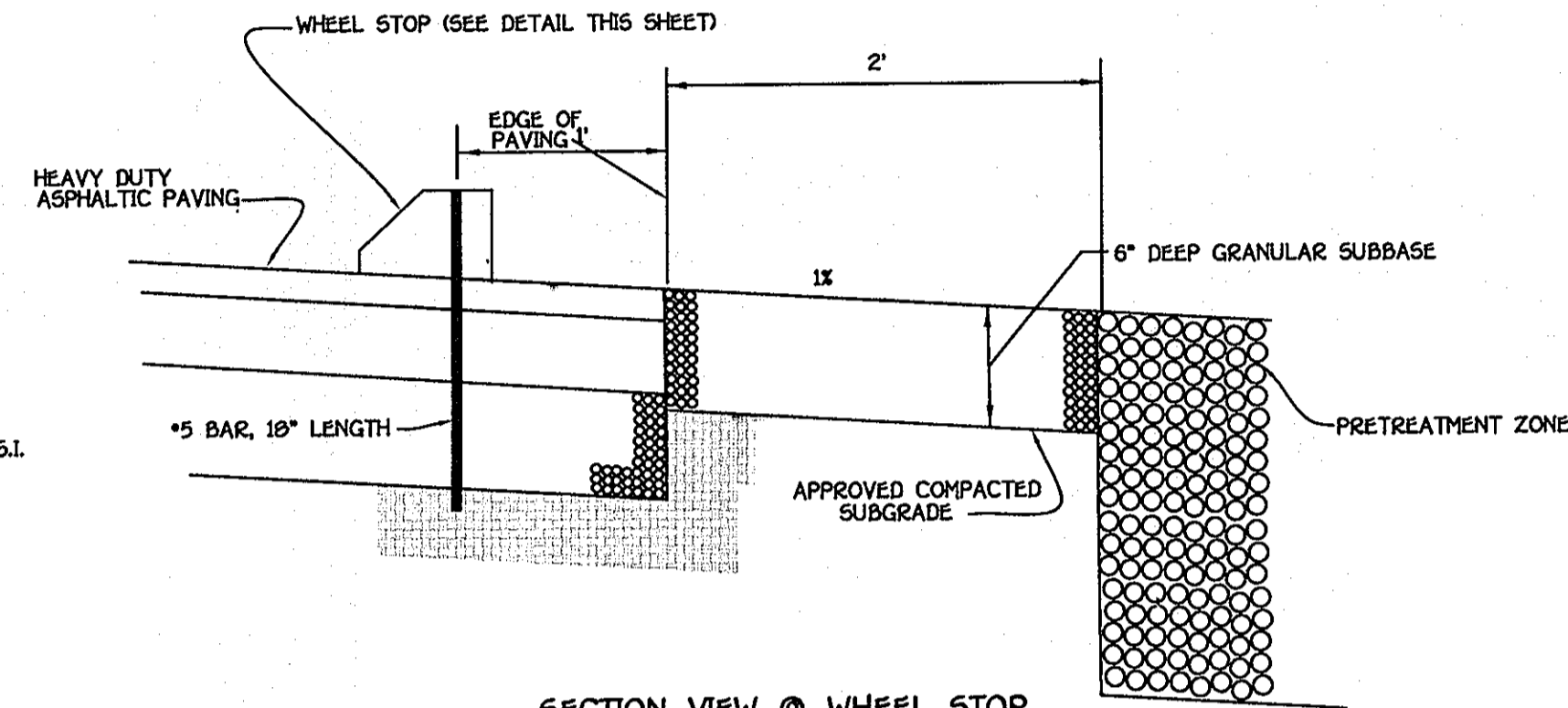


- NOTES:**
1. WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER
  2. CONCRETE STRENGTH SHALL BE 3,000 P.S.I.

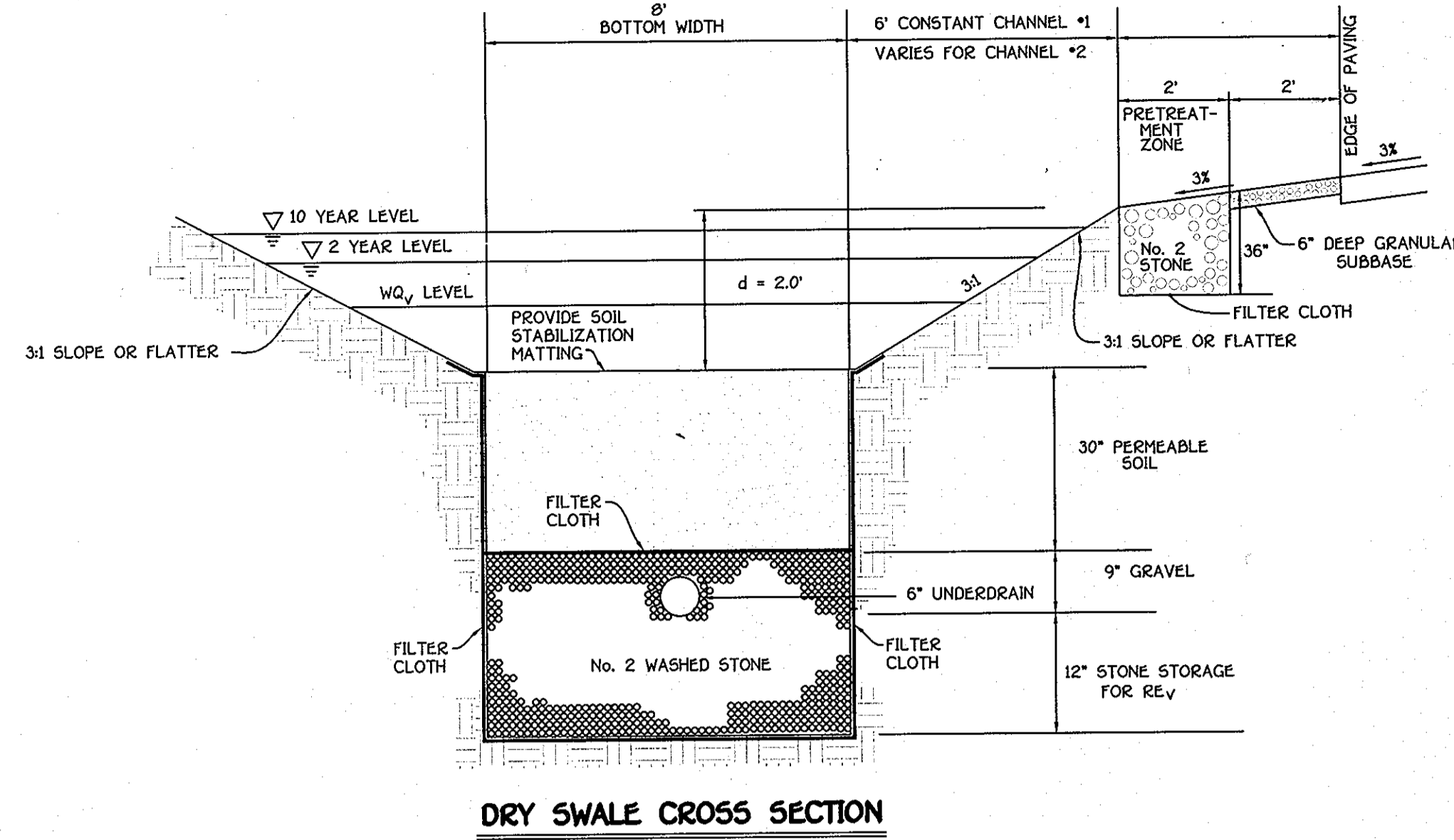
**WHEEL STOP DETAIL**  
NO SCALE



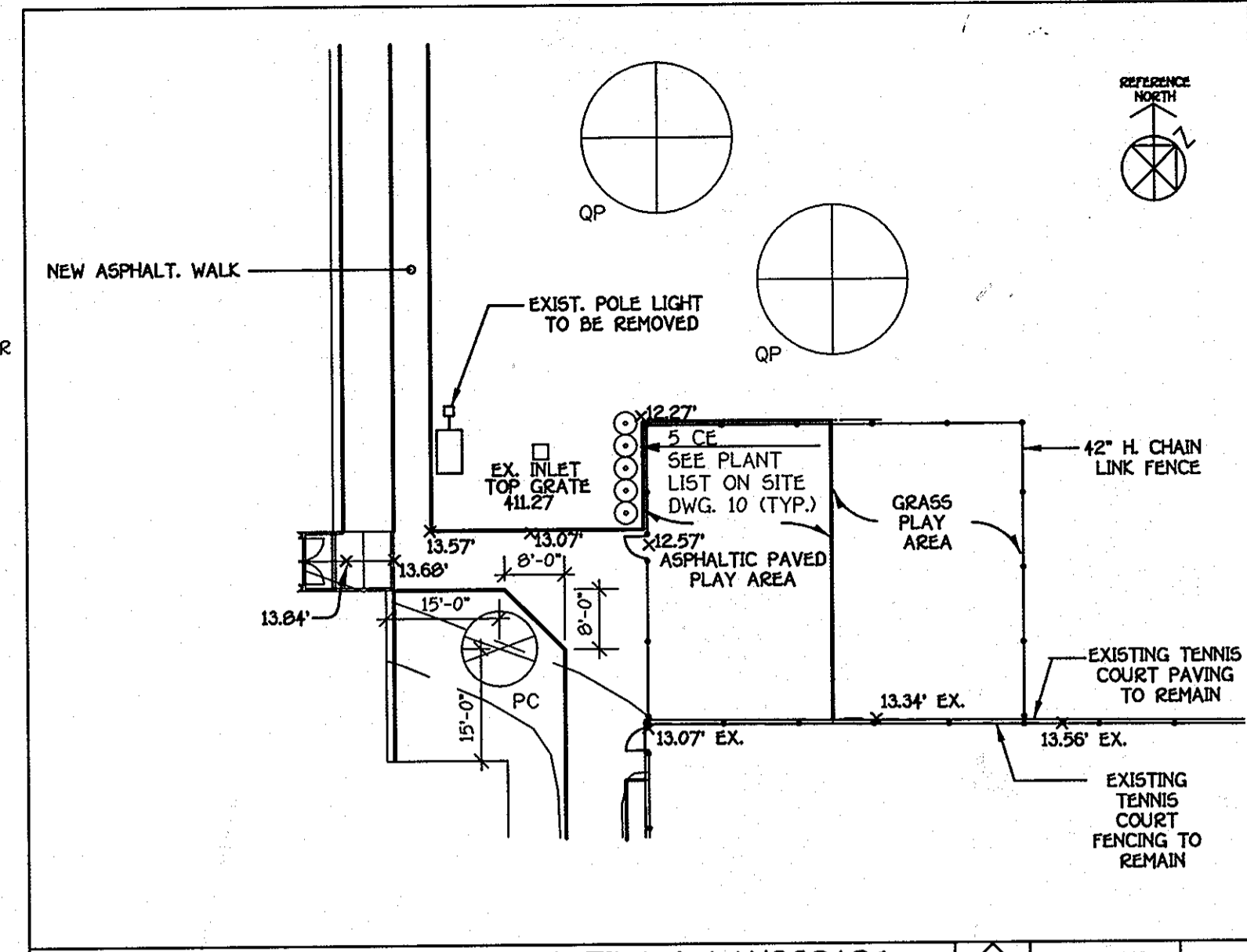
**WHEEL STOP LOCATION DETAIL**  
NO SCALE



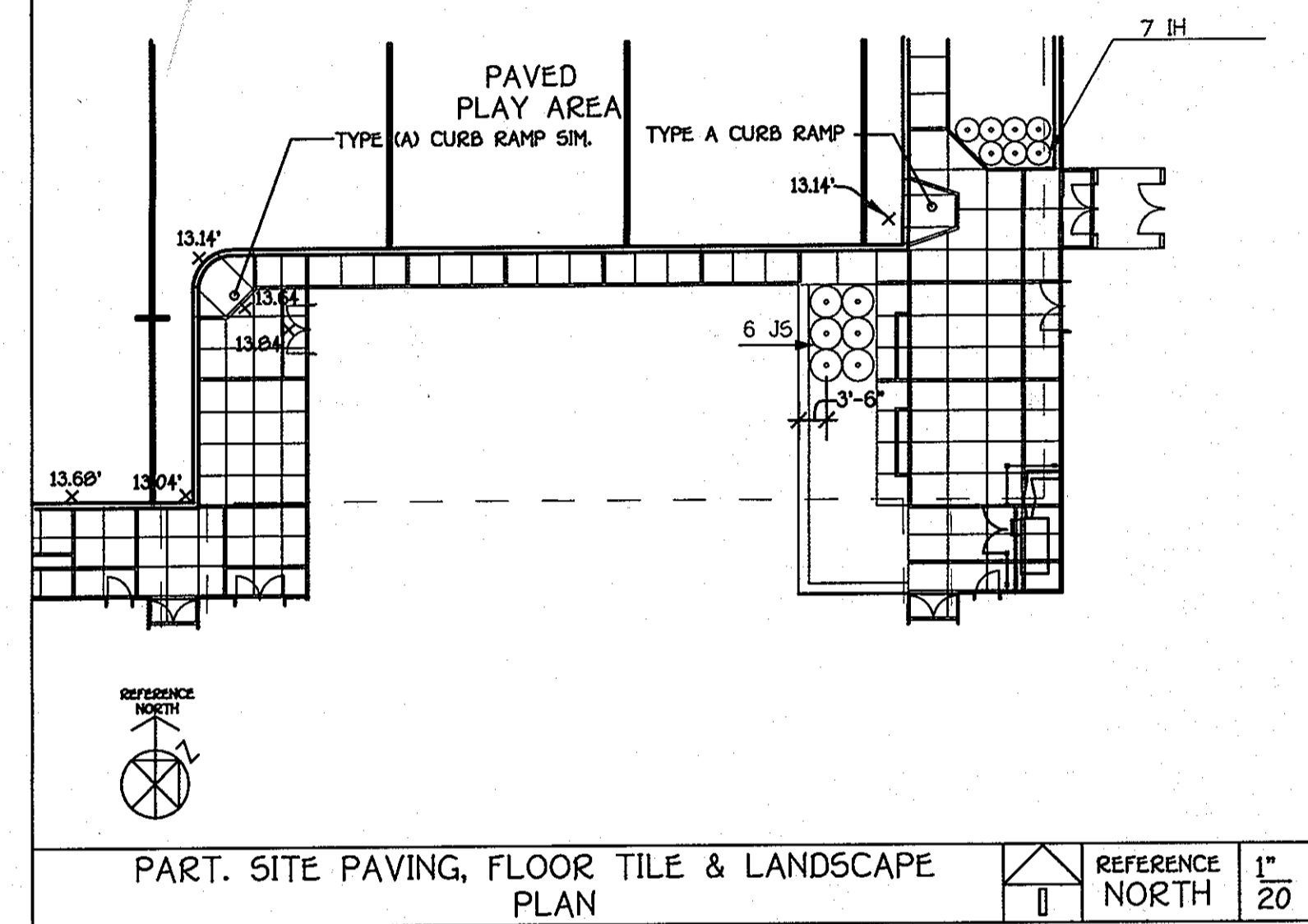
**SECTION VIEW @ WHEEL STOP**  
NO SCALE



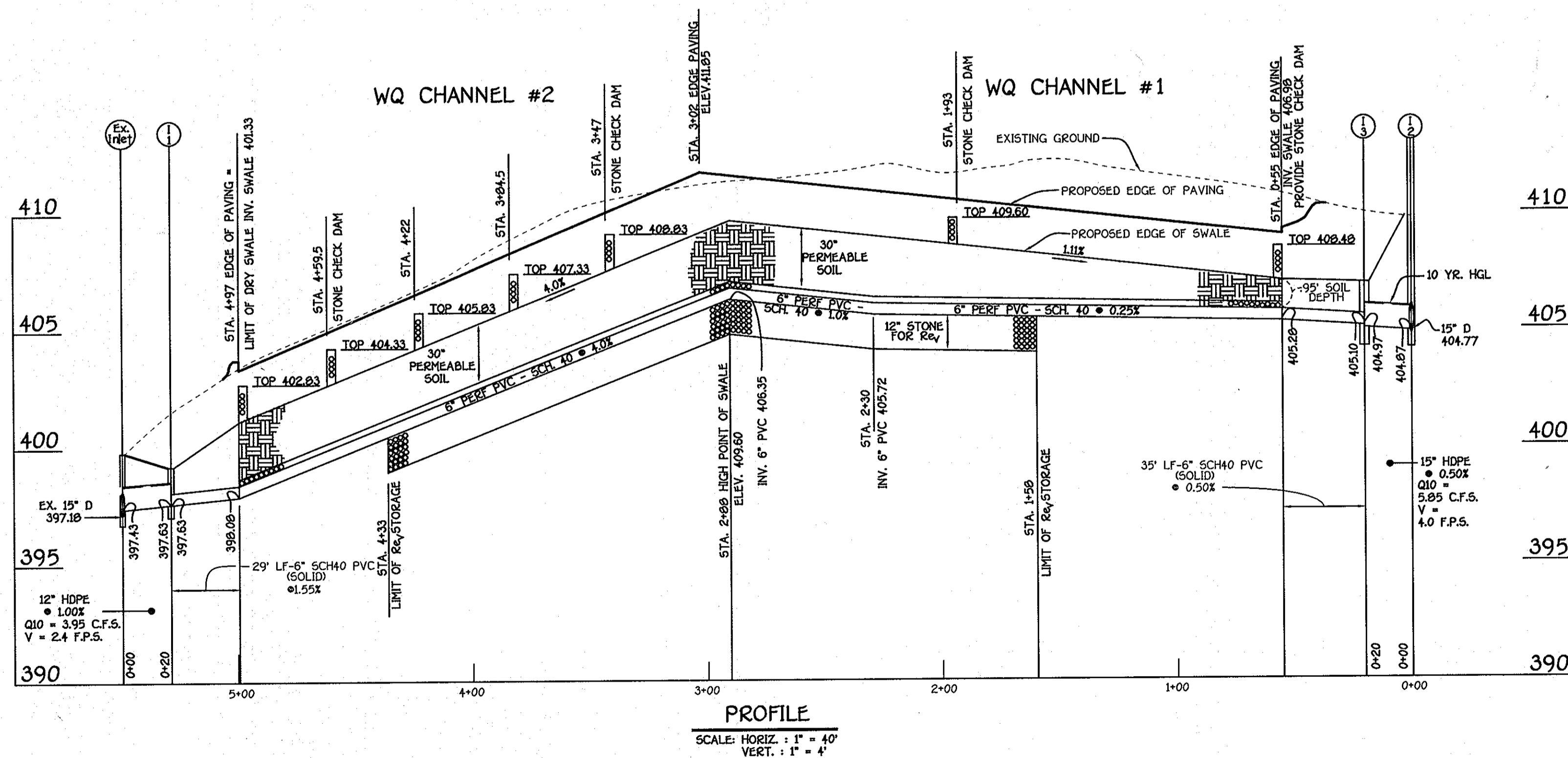
**DRY SWALE CROSS SECTION**  
NO SCALE



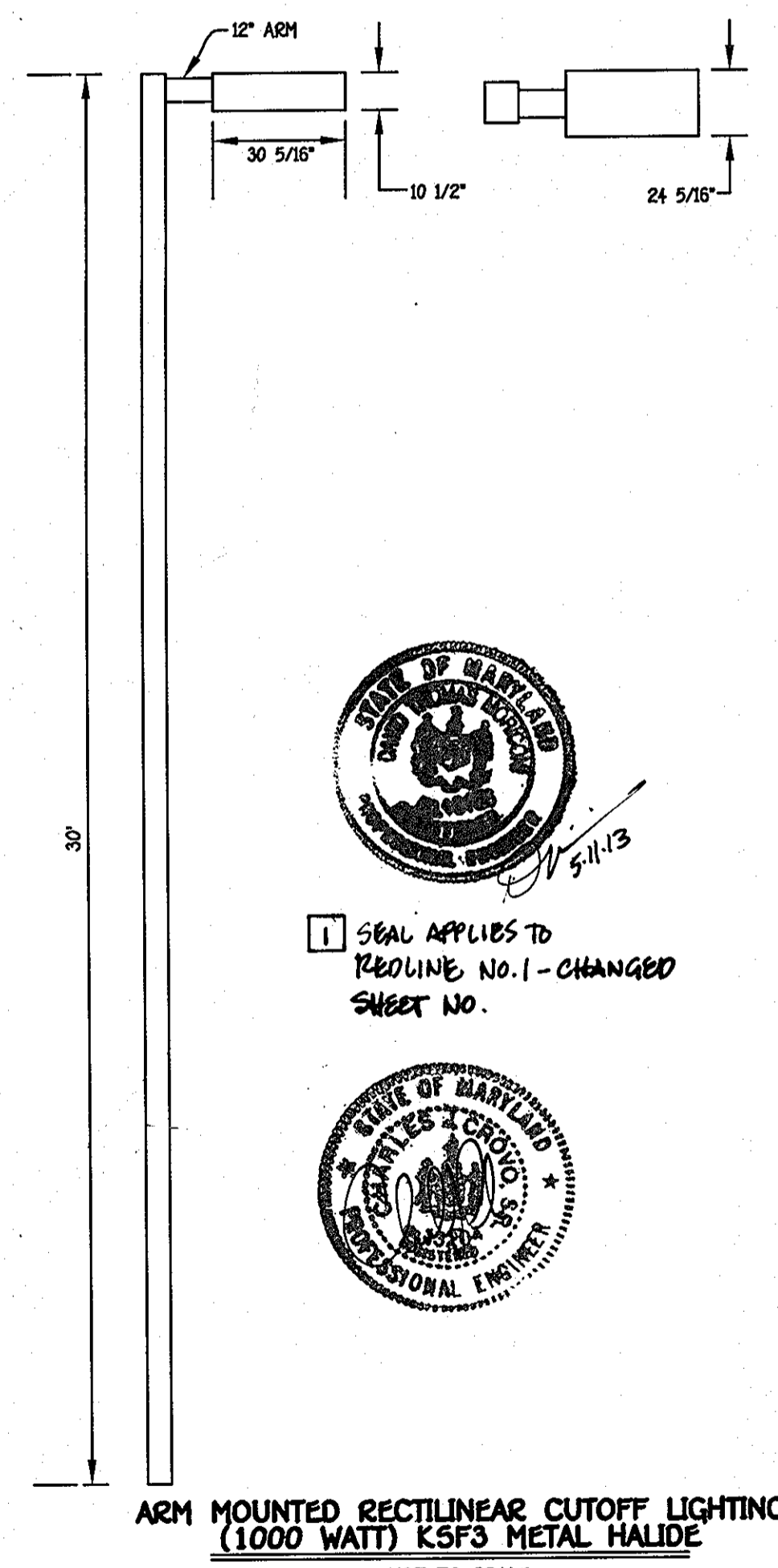
**PART. SITE PAVING, FLOOR TILE & LANDSCAPE PLAN**  
REFERENCE NORTH 1" = 20'



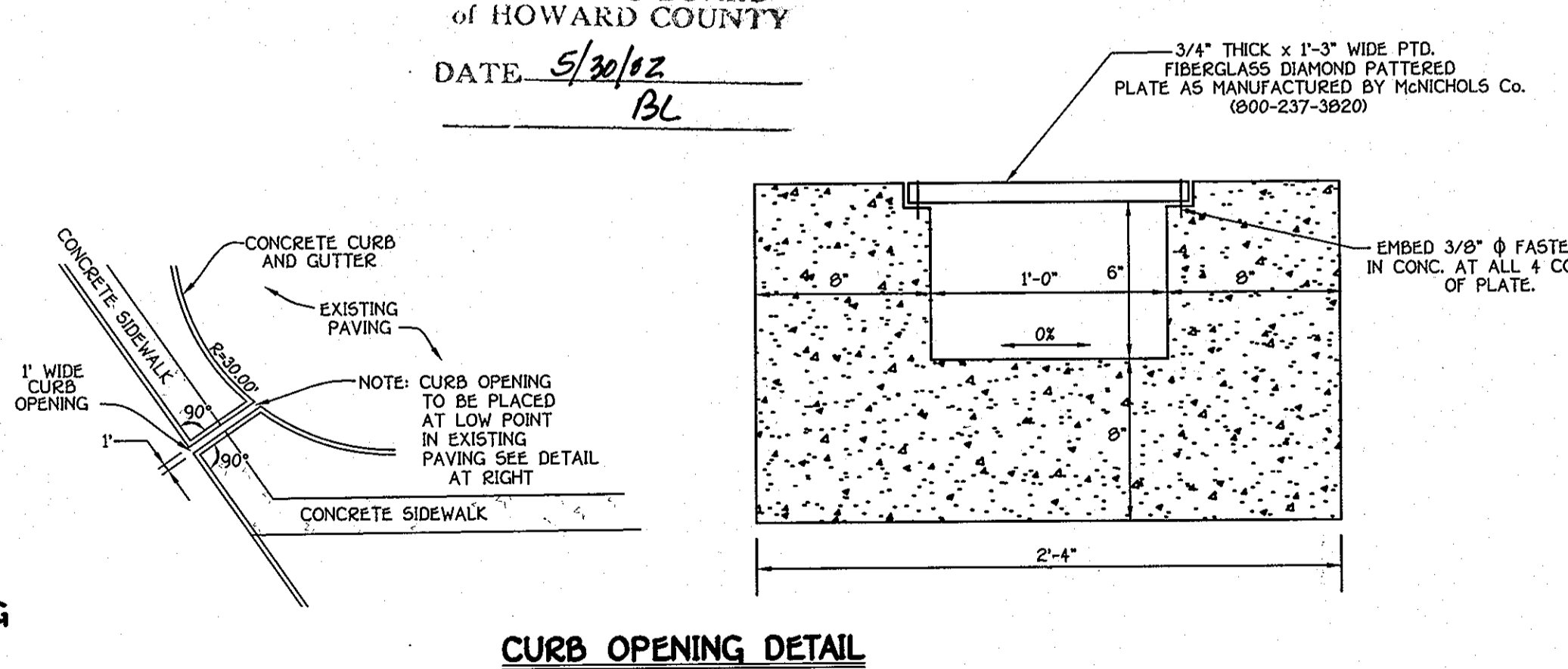
**PART. SITE PAVING, FLOOR TILE & LANDSCAPE PLAN**  
REFERENCE NORTH 1" = 20'



**PROFILE**  
SCALE: HORIZ. : 1" = 40'  
VERT. : 1" = 4'



**ARM MOUNTED RECTILINEAR CUTOFF LIGHTING (1000 WATT) K5F3 METAL HALIDE**  
NOT TO SCALE



**CURB OPENING DETAIL**  
NOT TO SCALE

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: 5/30/12  
BL



**ENGINEER'S CERTIFICATE**

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

*[Signature]*  
Signature of Engineer  
Date: 6/19/12

**DEVELOPER'S CERTIFICATE**

I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

*[Signature]*  
Signature of Developer  
Date: 6-19-12

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7/5/12  
Director, Department of Planning and Zoning  
*[Signature]* 7/6/12  
Chief, Division of Land Development  
*[Signature]* 7/12/12  
Chief, Development Engineering Division

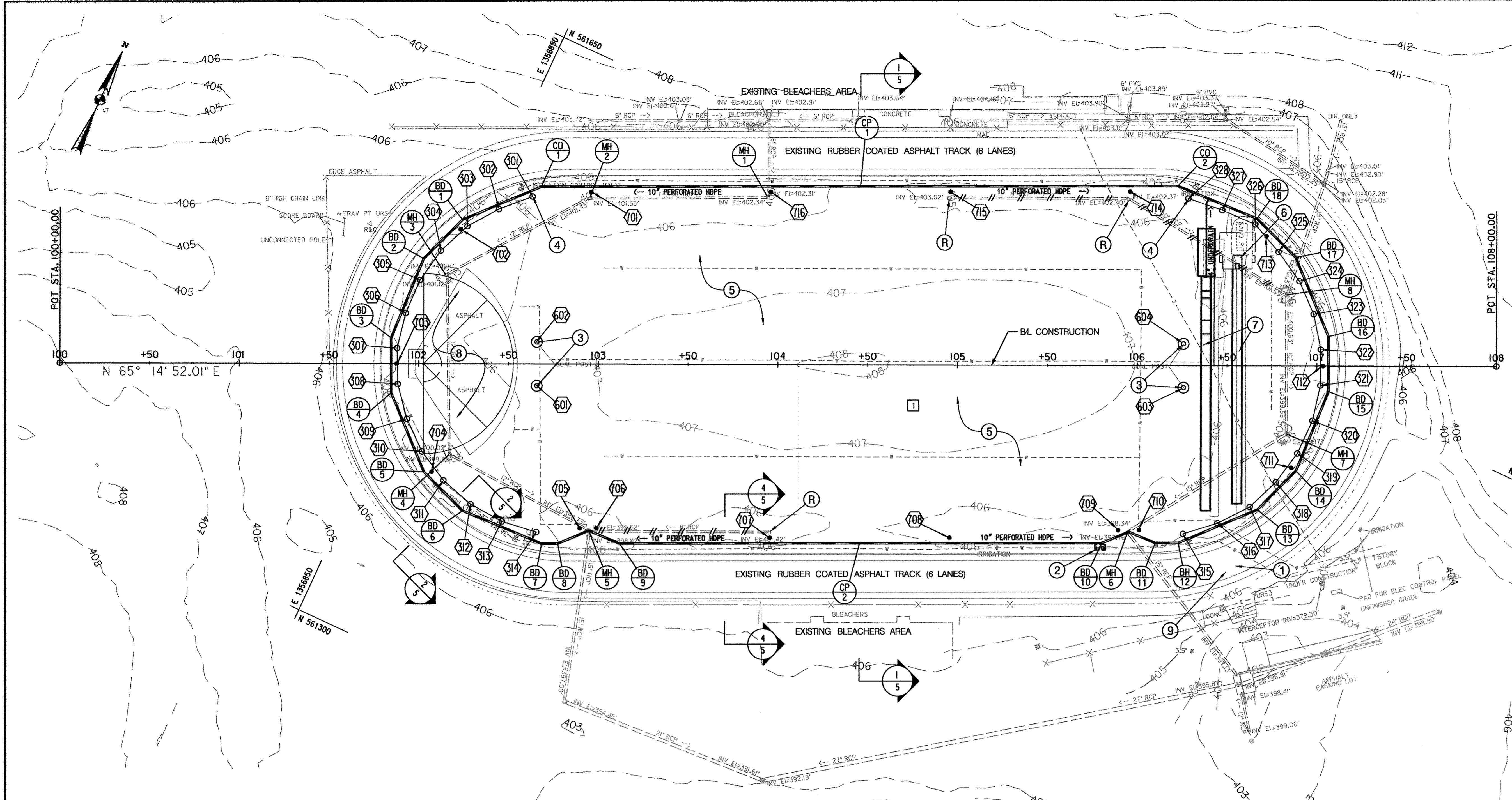
PREPARED FOR  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
10910 Maryland Route 108  
Ellicott City, Maryland 21042  
Attention Cathleen Young

TCA ARCHITECTS  
2661 Riva Road, Suite 120  
Annapolis, Maryland 21401  
301-261-8700

Address Chart	
Parcel Number	Street Address
336	9410 KILIMANJARO ROAD
PLAT RECORDATION REFERENCE PLATBOOK 21 FOLIO 15 AND 16	
PROJECT	SECTION/AREA
OAKLAND MILLS HIGH SCHOOL	2/5
DEED REF.	BLOCK NO.
590/12	9
WATER CODE	SEWER CODE
E 05	5144400

<b>DETAIL SHEET</b>	
COLUMBIA OAKLAND MILLS HIGH SCHOOL LOT 1 VILLAGE OF OAKLAND MILLS SECTION 2 AREA 5 BUILDING ADDITION AND PARKING LOT ADDITION	
TAX MAP No.: 36	PARCEL No.: 336
SIXTH ELECTION DISTRICT	HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN	DATE: 3 MAY 2002
	BUILDING PERMIT/CD REVIEW 14 JUNE 02
"BID AND CONSTRUCTION 1 JULY 02"	
SHEET 11 OF 11 [1]	

K:\SDS\PROJ\04030 Oakland Mills High School\dwg\04030 Detail Sheet.dwg, 06/19/2012 10:27:04 AM



POINT	NORTHING	EASTING	ELEVATION
301	561,562.6077	1,356,871.5564	406.74
302	561,548.4472	1,356,857.4326	406.68
303	561,532.3925	1,356,845.5059	406.67
304	561,513.9276	1,356,837.8216	406.61
305	561,494.2663	1,356,834.1569	406.60
306	561,474.2724	1,356,834.6513	406.63
307	561,454.6451	1,356,838.4948	406.70
308	561,436.6473	1,356,847.2169	406.71
309	561,421.2910	1,356,860.0304	406.58
310	561,408.3373	1,356,875.2686	406.59
311	561,398.8629	1,356,892.8821	406.64
312	561,393.2833	1,356,912.0880	406.70
313	561,391.8605	1,356,932.0374	406.71
314	561,394.6223	1,356,951.8458	406.81
315	561,545.4251	1,357,278.7380	406.77
316	561,558.7523	1,357,293.6506	406.61
317	561,574.5556	1,357,306.1899	406.57
318	561,593.0702	1,357,313.5575	406.58
319	561,612.6308	1,357,317.7271	406.58
320	561,632.6307	1,357,317.7010	406.56
321	561,652.1831	1,357,313.4932	406.79
322	561,670.4214	1,357,305.2856	406.79
323	561,686.5378	1,357,293.4424	406.68
324	561,699.8154	1,357,278.4857	406.64
325	561,709.6669	1,357,261.0802	406.67
326	561,718.0184	1,357,242.9074	406.57
327	561,717.5281	1,357,222.9134	406.70
328	561,715.3554	1,357,203.0318	406.80

POINT	NORTHING	EASTING	ELEVATION
601	561,468.3349	1,356,917.8603	407.21
602	561,490.4327	1,356,907.6721	407.21
603	561,619.0651	1,357,244.7860	407.21
604	561,641.1629	1,357,234.5978	407.21

POINT	NORTHING	EASTING
701	561,575.5225	1,356,900.0929
702	561,529.2011	1,356,842.8064
703	561,446.7090	1,356,841.8970
704	561,400.4123	1,356,884.8642
705	561,406.6700	1,356,972.9285
706	561,410.7282	1,356,981.3602
707	561,446.5869	1,357,071.0390
708	561,488.8277	1,357,161.6805
709	561,532.0702	1,357,245.0952
710	561,537.0261	1,357,255.6516
711	561,604.0275	1,357,317.9135
712	561,662.6147	1,357,310.1838
713	561,714.7604	1,357,251.3223
714	561,705.2150	1,357,172.0310
715	561,662.9844	1,357,081.3850
716	561,620.7535	1,356,990.7389

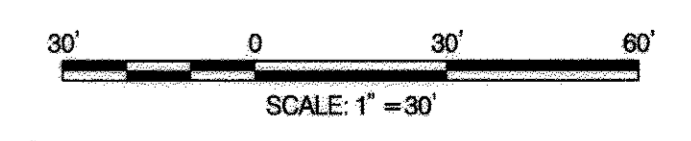
**Standard Stabilization Note**

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.

- NOTES:**
- PLACE STEEL PLATES OR OTHER ACCEPTABLE MEASURES OVER EXISTING TRACK PRIOR TO CONSTRUCTION TO PREVENT DAMAGE TO THE EXISTING TRACK. ANY DAMAGES TO EXISTING TRACK SHALL BE REPAIRED AT NO COST TO HOWARD COUNTY.
  - INSTALL WATER REEL CONNECTION BOX (SEE DETAIL SHEET). CONNECT TO EXISTING 3" WATER LINE. FINAL PLACEMENT AS DIRECTED BY THE COUNTY.
  - HOWARD COUNTY TO FURNISH SOCCER/FOOTBALL GOAL POSTS. CONTRACTOR SHALL INSTALL THE GOAL POST FOUNDATIONS WITH SLEEVES.
  - SAFETY NETTING SLEEVES. CONTRACTOR MUST COORDINATE WITH PLACEMENT OF UNDERDRAIN.
  - FIELD TURF, SEE DETAIL.
  - POLE VAULT (SEE DETAIL SHEET FOR STAKEOUT).
  - LONG JUMP/TRIPLE EVENT (SEE DETAIL SHEET FOR STAKEOUT).
  - HIGH JUMP (SEE DETAIL SHEET FOR STAKEOUT).
  - THE CONTRACTOR SHALL REPAIR ANY DAMAGED ASPHALT OR CONCRETE AREAS AS A RESULT OF THE PROPOSED USE DURING CONSTRUCTION.

- LEGEND**
- - - - - EXISTING CONTOUR
  - X - X - X EXISTING CHAIN LINK FENCE
  - - - - - EXISTING UNDERGROUND ELECTRIC
  - == # == # ABANDON EXISTING PIPE & FILL WITH FLOWABLE FILL
  - --- --- REMOVE EXISTING PIPE
  - SAFETY NETTING SLEEVES
  - ⊗ STANDARD INLET PROTECTION
  - ⊙ COMBINATION GOAL GROUND SLEEVE
  - EARTH BERM STONE OPENING (SEE DETAIL ON SHEET NO. 13)



APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7/3/13  
Chief, Development Engineering Division

*[Signature]* 7/3/13  
Chief, Division of Land Development

*[Signature]* 7/2/10  
Director

**PROFESSIONAL CERTIFICATION**

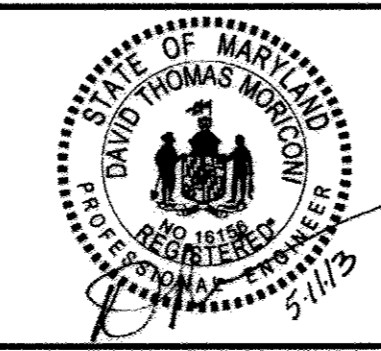
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156. EXPIRATION DATE: 8/28/2014."

HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
HOWARD COUNTY, MARYLAND

*[Signature]* 6/19/13  
DIRECTOR, HOWARD COUNTY RECREATION AND PARKS

*[Signature]* 6-18-13  
ASSISTANT MANAGER, GROUNDS SERVICES  
HOWARD COUNTY PUBLIC SCHOOL SYSTEM

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



DES:	RLI			
DRN:	CDF			
CHK:	DTM			
DATE:	06/13			
DTM BY:	11	S.D.P. REDLINE NO. 1 (NEW SHEET)	6/13	
	NO.	REVISION	DATE	

**SITE PLAN**

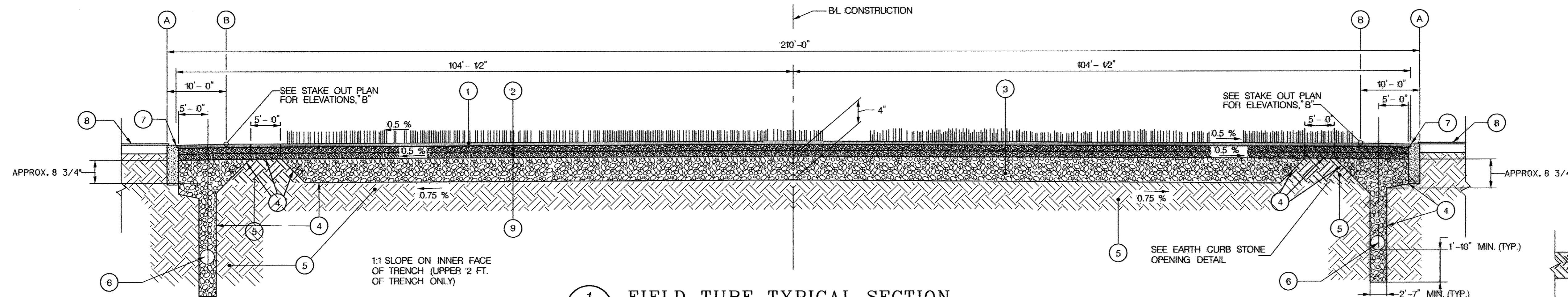
SCALE MAP NO. N/A BLOCK NO.

**OAKLAND MILLS HIGH SCHOOL  
FIELD IMPROVEMENTS**

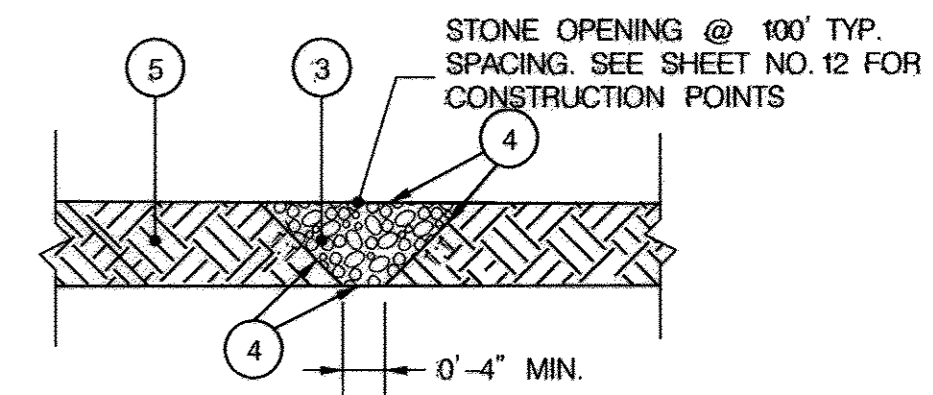
VILLAGE OF OAKLAND MILLS  
SECTION 2 AREA 5

SCALE  
1" = 30'

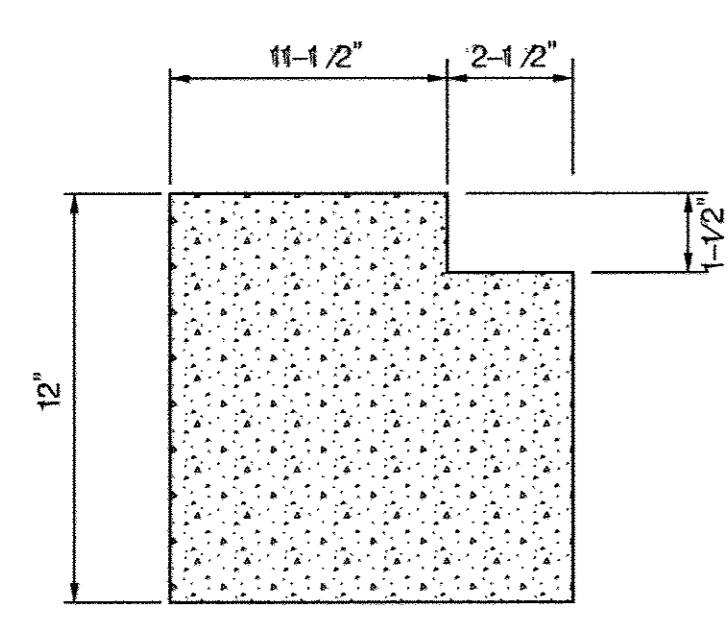
SHEET  
12 OF 13



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

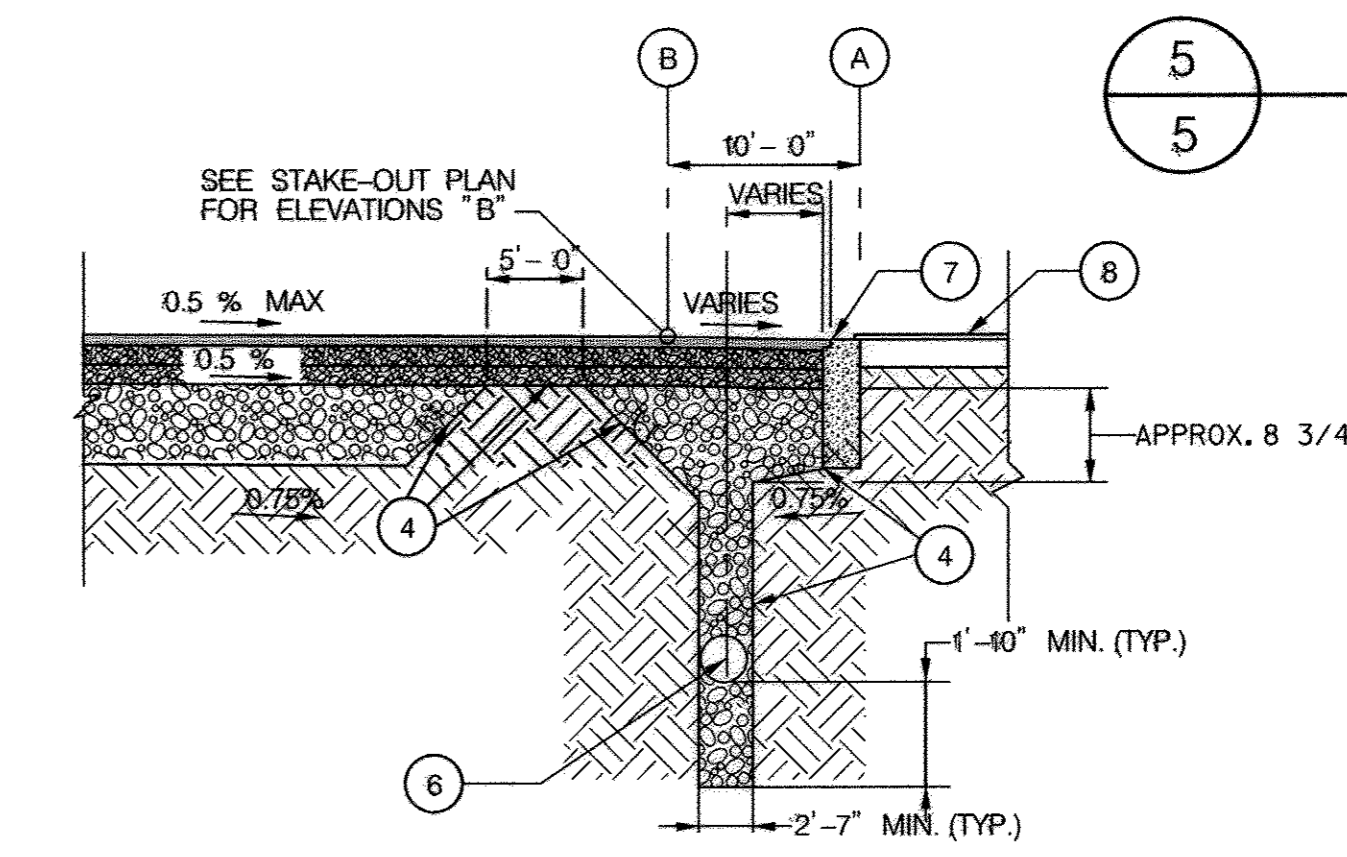


5 EARTH CURB STONE OPENING  
5 N.T.S.

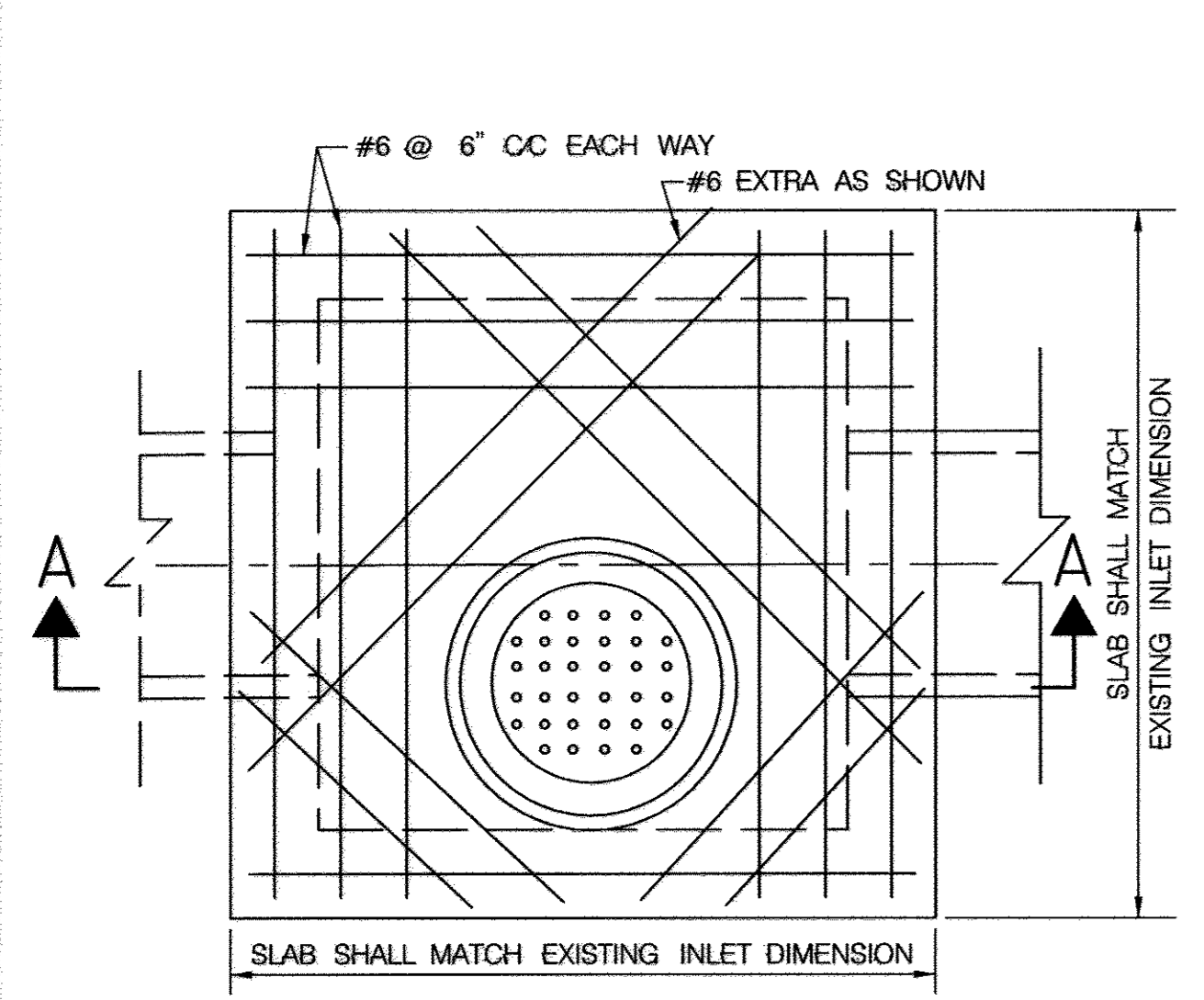


3 NAILER NOTCH  
5 N.T.S.

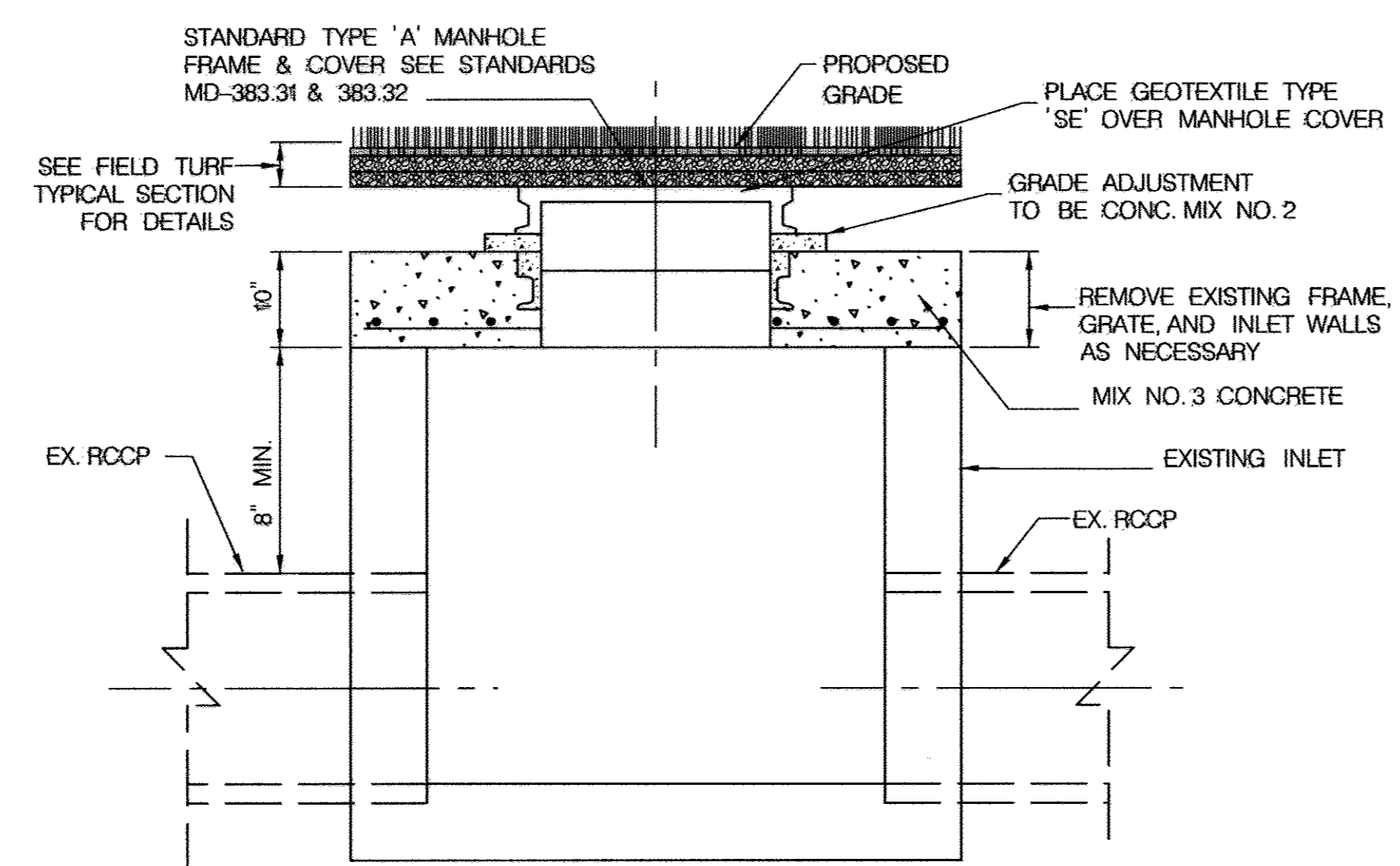
- LEGEND
- 1 2 - 12" PILE FIELD TURF WITH 1 - 3/4" OF INFILL.
  - 2 1" OF FINISHING STONE AS PER SPECIFICATIONS, COMPACTED TO 95% PROCTOR AND GRADED TO WITHIN 0 - 1/2" OF DESIGN GRADE AND WITHIN 0 - 1/4" IN 10 FEET (USE LASER GUIDED GRADER).
  - 3 VARIABLE DEPTH (MIN. 4" @ CENTER) #2 BASE STONE.
  - 4 GEOTEXTILE (MIRAF140N 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.



2 "D" SEMI-CIRCLE FIELD TURF TYPICAL SECTION  
5 N.T.S.



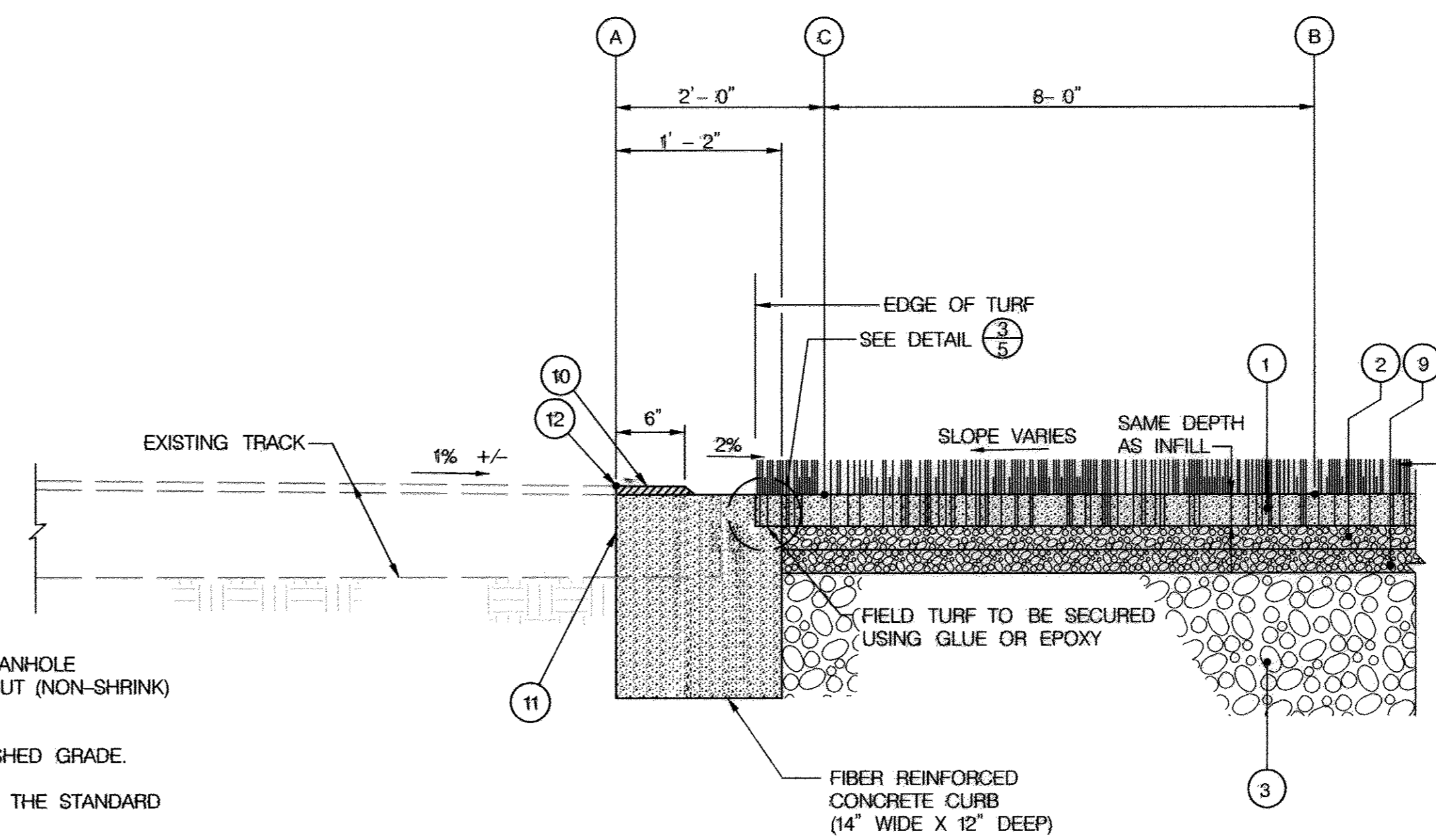
PLAN  
NOTE: MANHOLE FRAME AND COVER TO BE PLACED AS SHOWN.



SECTION A-A

GRATE INLET TO MANHOLE CONVERSION  
NOT TO SCALE

- 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.



4 CONCRETE CURB EDGE  
5 N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *[Signature]* 7/3/13  
 Chief, Division of Land Development *[Signature]* 7/3/13  
 Director *[Signature]* 7/3/13

HOWARD COUNTY PUBLIC SCHOOL SYSTEM  
HOWARD COUNTY, MARYLAND

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

DATE: 06/13

DES: RLL  
DRN: CDF  
CHK: DTM

DTM 1 S.D.P. REDLINE NO. 1 (NEW SHEET) 5/13  
BY NO. REVISION DATE

SITE DETAILS I

SCALE MAP NO. N/A BLOCK NO.

OAKLAND MILLS HIGH SCHOOL  
FIELD IMPROVEMENTS

VILLAGE OF OAKLAND MILLS  
SECTION 2 AREA 5

SCALE AS SHOWN  
SHEET 13 OF 13

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: 8/28/2014."