

SHEET INDEX
DESCRIPTION

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SITE DEVELOPMENT PLAN

NORTH GREENBRIER

A COMMERCIAL BUILDING

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE 1" = 200'

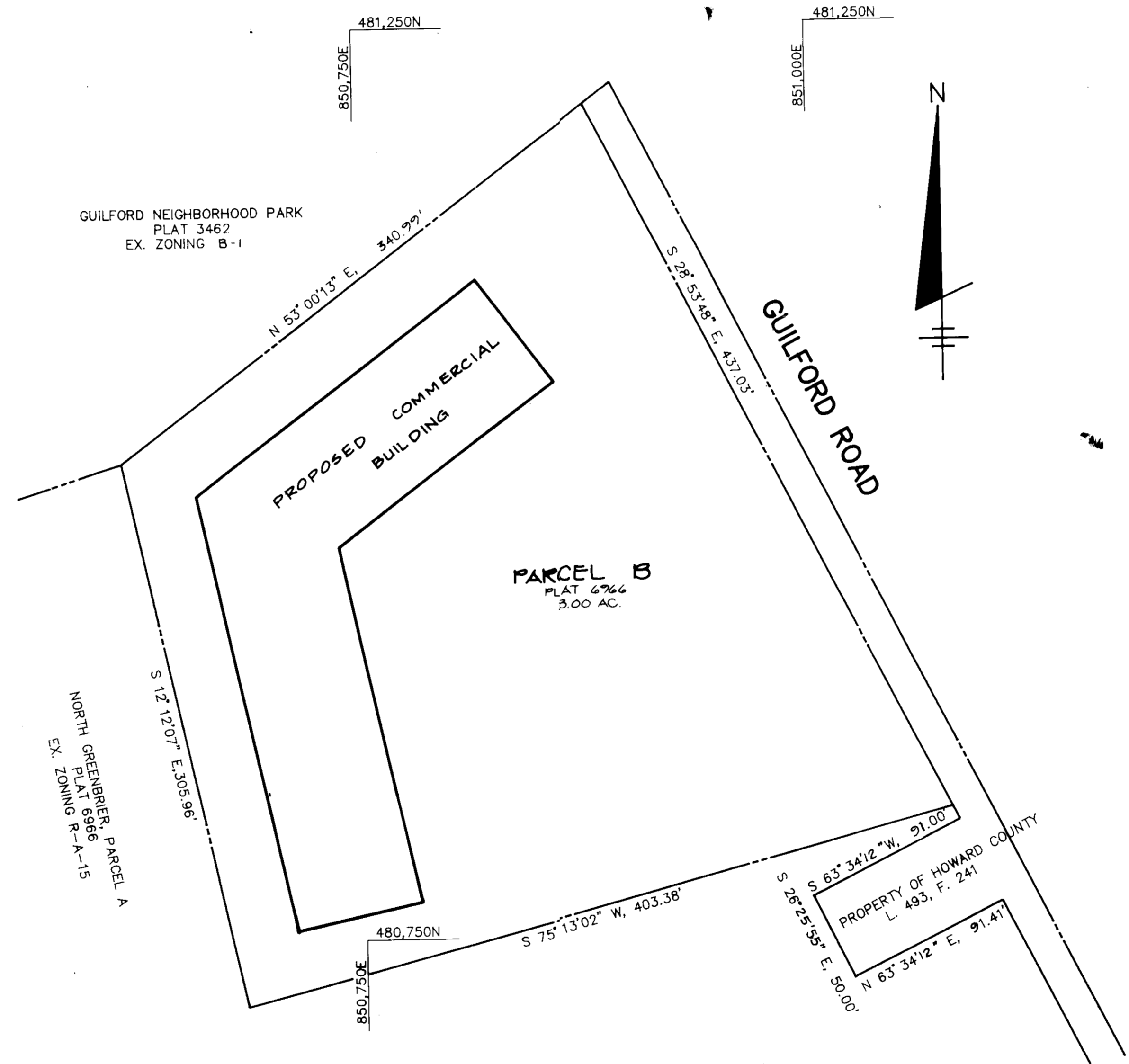
- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATER-TIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. 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 FIT EXISTING UTILITIES AT LEAST FIVE (5) 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 SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
CAP TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-8123
STATE HIGHWAY ADMINISTRATION	531-3533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

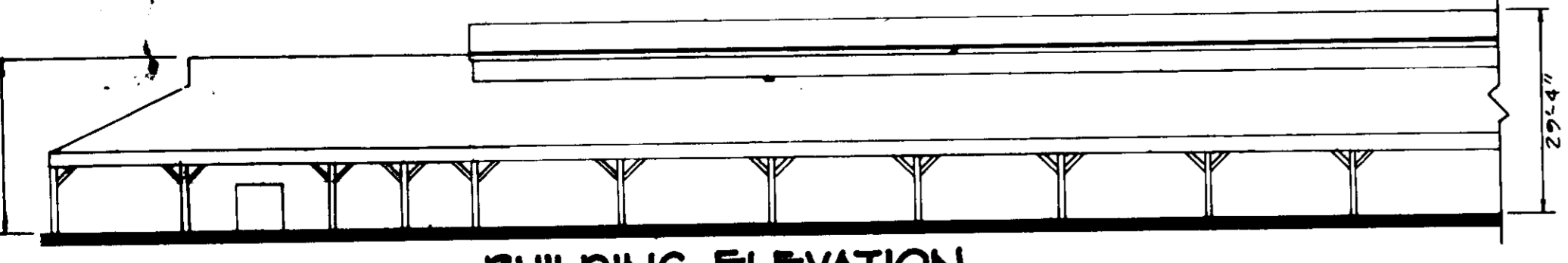
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL DINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- PODS TAKEN FROM FIELD RUN SURVEY DATED NOVEMBER, 1995, BY TYONGS & ASSOC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2-01 (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 SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.

NORTH GREENBRIER 'B'
SITE TABULATION

TOTAL AREA OF PROPERTY:	3.00 AC.
AREA OF SUBMISSION:	3.00 AC.
EXISTING ZONING:	B-1
PROPOSED USE:	COMMERCIAL
PROPOSED BUILDING AREA:	27,596.11 S.F.
BUILDING COVERAGE PERMITTED (B-1):	30%
BUILDING COVERAGE PROPOSED:	21.1%
AREA OF PARKING:	53,100 S.F. (1.22 AC.)
AREA OF LANDSCAPED ISLANDS REQUIRED (5%):	2,655 S.F.
AREA OF LANDSCAPED ISLANDS PROPOSED (10.03%):	5,328 S.F.
OPEN SPACE REQUIRED (20%):	26,136 S.F. (.6 AC.)
OPEN SPACE PROVIDED (27.91%):	36,955.09 S.F. (.84 AC.)
PARKING REQUIREMENTS:	
TOTAL AREA OF BUILDING:	27,596.11 S.F.
TOTAL PARKING REQUIRED @ .1 SPACE PER 200 S.F.:	137.98 SPACES
TOTAL PARKING PROVIDED, (INCLUDING 5 HANDICAPPED SPACES):	138 SPACES



PLAN
SCALE: 1" = 50'



BUILDING ELEVATION
SCALE: 1" = 20'

ADDRESS CRAFT	
PARCEL	STREET ADDRESS
B	HOWARD COUNTY ROAD (MD. RT. 26)

SUBDIVISION NAME	PLAT / OR L/V	BLOCK /	LOT /	AREA	PARCEL #	DATE	REMARKS
NORTH GREENBRIER	6966	B-1	23	3.00	B	11-9-87	
WATER CODE	809				4408200		

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

James M. ... 9-12-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

... 9-19-87
PLANNING DIRECTOR DATE

... 9-18-87
CHIEF, DIVISION OF PLANNING AND LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James ... 9-18-87
DIRECTOR DATE

...
CHIEF, BUREAU OF ENGINEERING

DATE	NO.	REVISION

OWNER/DEVELOPER
N.G.A. LTD. PARTNERSHIP
ONE OAKWOOD BUSINESS CTR.
7050 OAKLAND MILLS ROAD
SUITE 100
COLUMBIA, MARYLAND 21046

PROJECT: **NORTH GREENBRIER
A COMMERCIAL BUILDING**

AREA TAX MAP ASSESSMENT NO. 0000 PARCEL #

TITLE: **TITLE SHEET**

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3108 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-8800

DATE: 9-29-87

DESIGNED BY: *...*

DRAWN BY: *...*

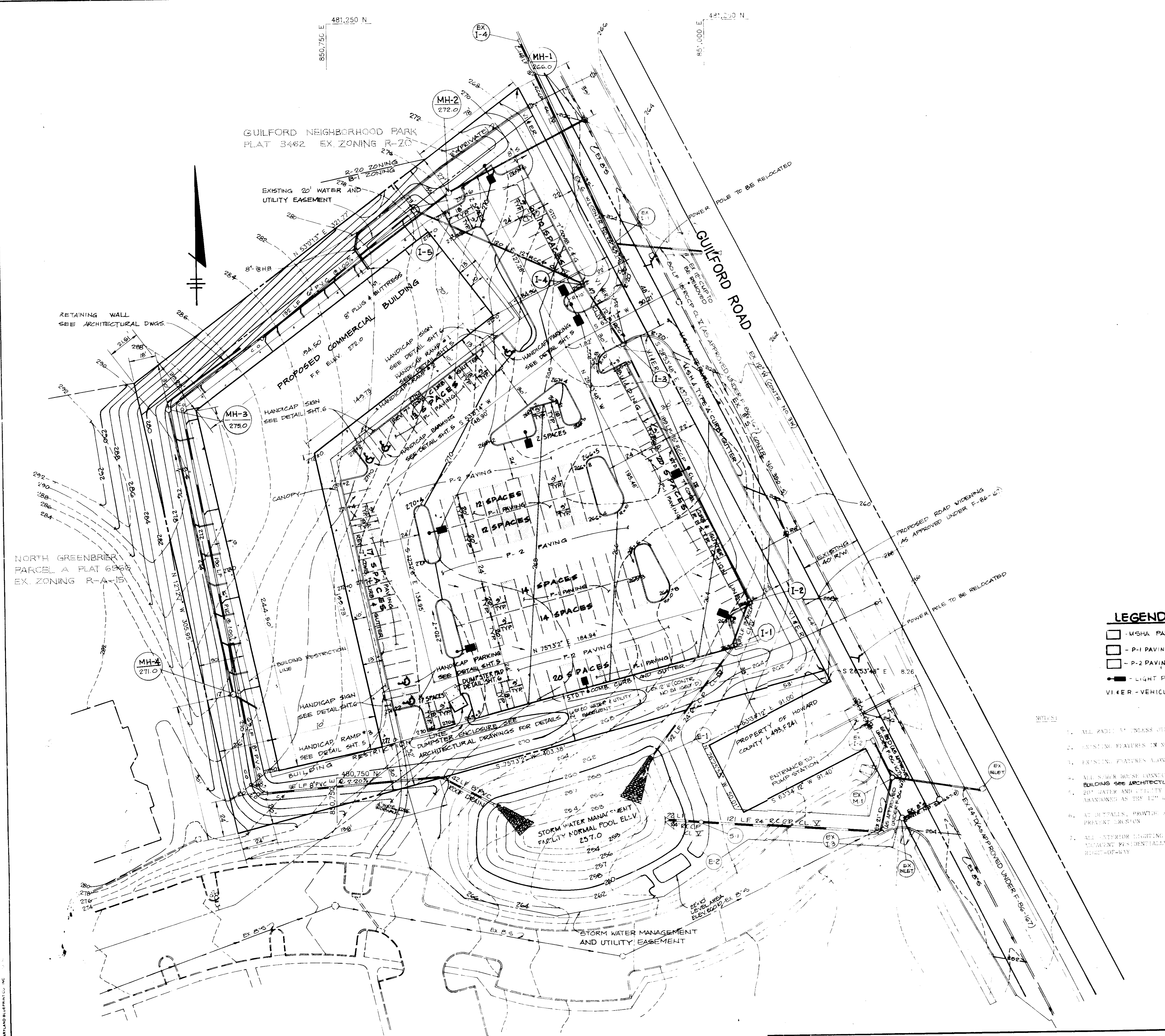
PROJECT NO: E6402

DATE:

SCALE: 1" = 50'

DRAWING NO. 5 OF 7

SDP-87-143



LEGEND

- - MSHA PAVING
- - P-1 PAVING
- - P-2 PAVING
- - LIGHT POLE
- - VEHICULAR INGRESS & EGRESS RESTRICTION

- NOTES:
1. ALL RADII 5' UNLESS OTHERWISE NOTED.
 2. EXISTING FEATURES IN NORTH GREENBRIER PARCEL A AS PER SDP-87-184
 3. EXISTING FEATURES ALONG GUILFORD ROAD AS PER F-86-167
 4. ALL WATER HOUSE CONNECTIONS TO BE BY SOB AND END 5' FROM BUILDING SEE ARCHITECTURAL PLANS FOR CONTINUATION.
 5. 20' WATER AND UTILITY EASEMENT ON THE NORTH SIDE TO BE ABANDONED AS THE LOT WILL BE RELOCATED.
 6. AT DETAILS, PROVIDE 4" RAP UP TO THE BOTTOM OF THE POND TO PREVENT DRAINAGE.
 7. ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC ROAD RIGHT-OF-WAY.

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

Joseph M. Boyd III 9-12-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

William H. ... 9-19-88
PLANNING DIRECTOR DATE

Frankie J. DeLange 9-11-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James H. ... DATE
DIRECTOR

William ... 9-2-88
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
NGA LTD PARTNERSHIP
ONE OAKWOOD BUSINESS CTZ
7050 OAKLAND MILLS ROAD
SUITE 100
COLUMBIA, MARYLAND 21046

PROJECT
NORTH GREENBRIER
A COMMERCIAL BUILDING

AREA: TAX MAP 42 PLAT No. 6966 PARCEL B
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE
SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 461-2690

APPROVED
DATE
11-9-87

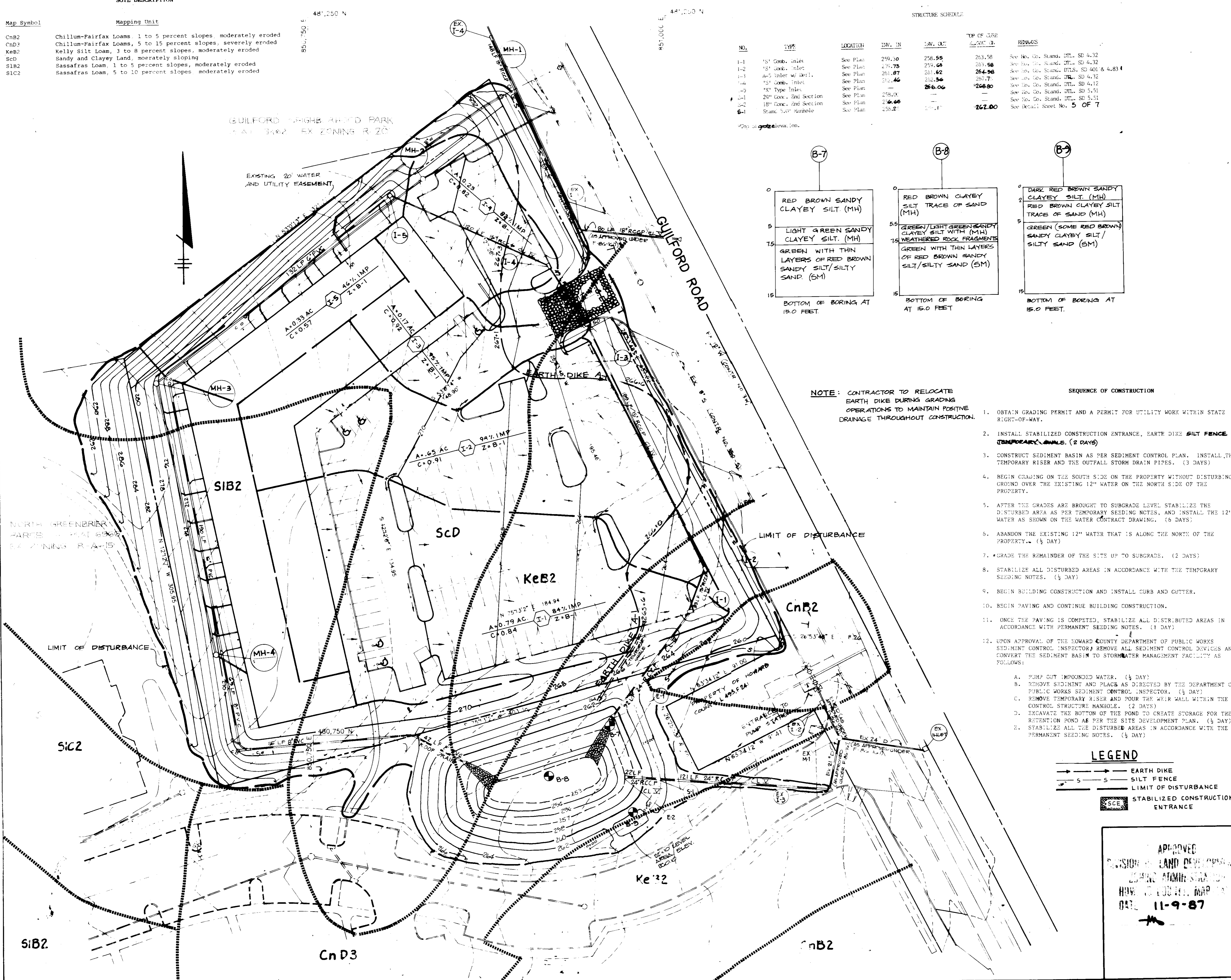
DATE 4-28-88	5-86-24 5-86-30 F-86-167 VP-86-38 AA-86-04 BA-86-16
DESIGNED BY J.D.P.	
DRAWN BY D.B.S.	
PROJECT NO 22402	
DATE	
SCALE 1" = 30'	
DRAWING NO 2 OF 7	

SOIL DESCRIPTION

Map Symbol	Mapping Unit
CnB2	Chillum-Fairfax Loams 1 to 5 percent slopes, moderately eroded
CnD3	Chillum-Fairfax Loams, 5 to 15 percent slopes, severely eroded
KeB2	Kelly Silt Loam, 3 to 8 percent slopes, moderately eroded
ScD	Sandy and Clayey Land, moderately sloping
SIB2	Sassafras Loam, 1 to 5 percent slopes, moderately eroded
SIC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP OF CURB ELEVATION	REMARKS
1-1	18" Comb. Inlet	See Plan	259.30	258.55	263.58	See How. Co. Stand. DTL. SD 4.32
1-2	18" Comb. Inlet	See Plan	279.75	279.65	283.58	See How. Co. Stand. DTL. SD 4.32
1-3	48" Inlet w/ Detl.	See Plan	261.87	261.62	264.86	See How. Co. Stand. DTL. SD 4.01 & 4.81
1-4	18" Comb. Inlet	See Plan	262.46	262.36	267.71	See How. Co. Stand. DTL. SD 4.32
2	18" Type Inlet	See Plan	—	266.06	268.80	See How. Co. Stand. DTL. SD 4.12
2-1	24" Comb. Inlet Section	See Plan	258.00	—	—	See How. Co. Stand. DTL. SD 5.31
2-2	18" Comb. Inlet Section	See Plan	256.65	—	—	See How. Co. Stand. DTL. SD 5.31
3-1	Blank 3/4" Manhole	See Plan	258.27	—	262.00	See Detail Sheet No. 5 OF 7



DEPTH (FEET)	SOIL DESCRIPTION
0	RED BROWN SANDY CLAYEY SILT (MH)
5	LIGHT GREEN SANDY CLAYEY SILT. (MH)
7.5	GREEN WITH THIN LAYERS OF RED BROWN SANDY SILT/SILTY SAND (SM)
15	BOTTOM OF BORING AT 15.0 FEET

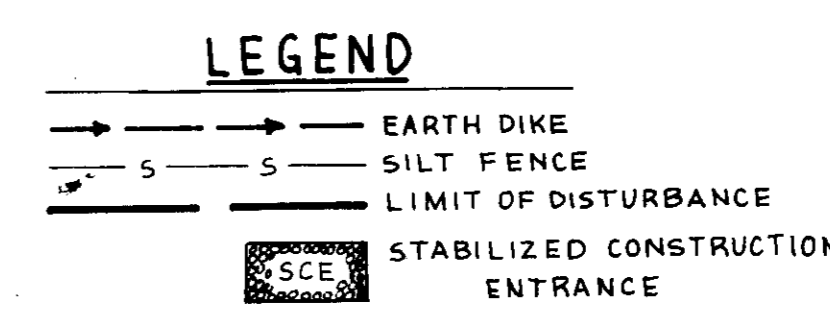
DEPTH (FEET)	SOIL DESCRIPTION
0	RED BROWN CLAYEY SILT TRACE OF SAND (MH)
5.5	GREEN/LIGHT GREEN SANDY CLAYEY SILT WITH (MH)
7.5	WEATHERED ROCK FRAGMENTS GREEN WITH THIN LAYERS OF RED BROWN SANDY SILT/SILTY SAND (SM)
15	BOTTOM OF BORING AT 15.0 FEET

DEPTH (FEET)	SOIL DESCRIPTION
0	DARK RED BROWN SANDY CLAYEY SILT (MH)
2	RED BROWN CLAYEY SILT TRACE OF SAND (MH)
5	GREEN (SOME RED BROWN) SANDY CLAYEY SILT/SILTY SAND (SM)
15	BOTTOM OF BORING AT 15.0 FEET

NOTE: CONTRACTOR TO RELOCATE EARTH DIKE DURING GRADING OPERATIONS TO MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT AND A PERMIT FOR UTILITY WORK WITHIN STATE RIGHT-OF-WAY.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, EARTH DIKE SILT FENCE AND TEMPORARY SEEDING. (2 DAYS)
- CONSTRUCT SEDIMENT BASIN AS PER SEDIMENT CONTROL PLAN. INSTALL THE TEMPORARY RISER AND THE OUTFALL STORM DRAIN PIPES. (3 DAYS)
- BEGIN GRADING ON THE SOUTH SIDE ON THE PROPERTY WITHOUT DISTURBING GROUND OVER THE EXISTING 12" WATER ON THE NORTH SIDE OF THE PROPERTY.
- AFTER THE GRADES ARE BROUGHT TO SUBGRADE LEVEL STABILIZE THE DISTURBED AREA AS PER TEMPORARY SEEDING NOTES, AND INSTALL THE 12" WATER AS SHOWN ON THE WATER CONTRACT DRAWING. (6 DAYS)
- ABANDON THE EXISTING 12" WATER THAT IS ALONG THE NORTH OF THE PROPERTY. (1/2 DAY)
- GRADE THE REMAINDER OF THE SITE UP TO SUBGRADE. (2 DAYS)
- STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE TEMPORARY SEEDING NOTES. (1/2 DAY)
- BEGIN BUILDING CONSTRUCTION AND INSTALL CURB AND GUTTER.
- BEGIN PAVING AND CONTINUE BUILDING CONSTRUCTION.
- ONCE THE PAVING IS COMPLETED, STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY)
- UPON APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND CONVERT THE SEDIMENT BASIN TO STORMWATER MANAGEMENT FACILITY AS FOLLOWS:
 - PUMP OUT IMPOUNDED WATER. (1/2 DAY)
 - REMOVE SEDIMENT AND PLACE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR. (1/2 DAY)
 - REMOVE TEMPORARY RISER AND POUR THE WEIR WALL WITHIN THE CONTROL STRUCTURE MANHOLE. (2 DAYS)
 - EXCAVATE THE BOTTOM OF THE POND TO CREATE STORAGE FOR THE RETENTION POND AS PER THE SITE DEVELOPMENT PLAN. (1/2 DAY)
 - STABILIZE ALL THE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1/2 DAY)



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ENGINEERING
 HOWARD COUNTY, MARYLAND
 DATE 11-9-87

BY THE DEVELOPER:
 "I 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 NATURAL RESOURCES 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
 L. EARL ADRIER, GENERAL PARTNER
 N.G.A. LIMITED PARTNERSHIP
 DATE 4-14-88

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
 ENGINEER
 DATE 4-28-88

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
 U.S. SOIL CONSERVATION SERVICE
 DATE 5-12-88

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert W. Ziehm
 HOWARD S.C.D.
 DATE 5-12-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Joyce M. Anderson, ES
 COUNTY HEALTH OFFICER
 DATE 7-12-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 U. R. H.
 PLANNING DIRECTOR
 DATE 9-19-88
 Mark J. Campbell
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 7-16-87

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 James M. Helms
 DIRECTOR
 DATE 9-2-88
 William E. Ruppel
 CHIEF, BUREAU OF ENGINEERING
 DATE 9-3-88

DATE	NO.	REVISION

OWNER DEVELOPER
 N.G.A. LTD. PARTNERSHIP
 ONE OAKWOOD BUSINESS CTR.
 7050 OAKLAND MILLS ROAD
 SUITE 100
 COLUMBIA, MARYLAND 21046

PROJECT NORTH GREENBRIER
 A COMMERCIAL BUILDING

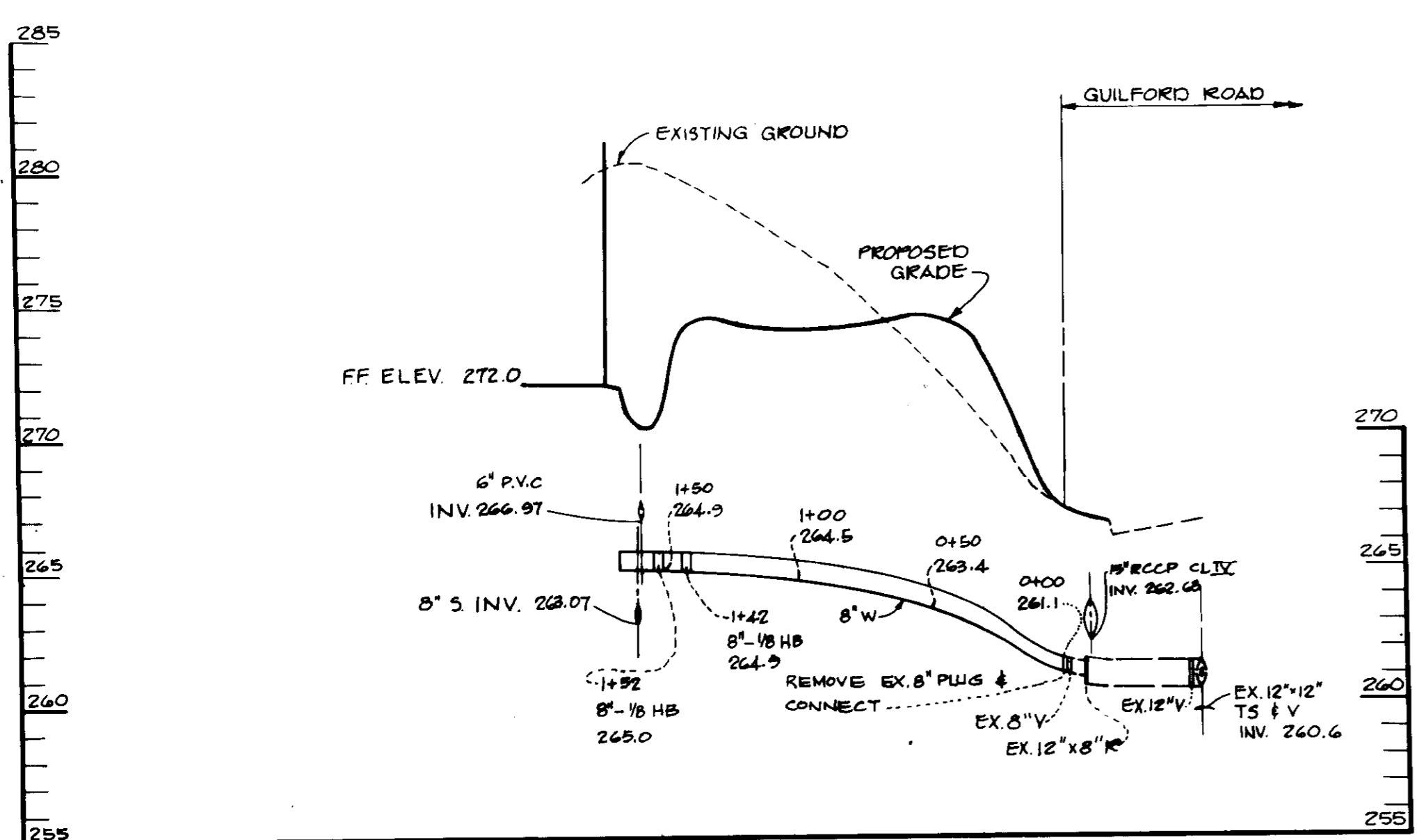
AREA TAX MAP 42 PLAT NO 6966 PARCEL B
 6TH ELECTION DISTRICT
 HOWARD COUNTY MARYLAND

TITLE DRAINAGE AREA MAP,
 SEDIMENT CONTROL & DETAILS

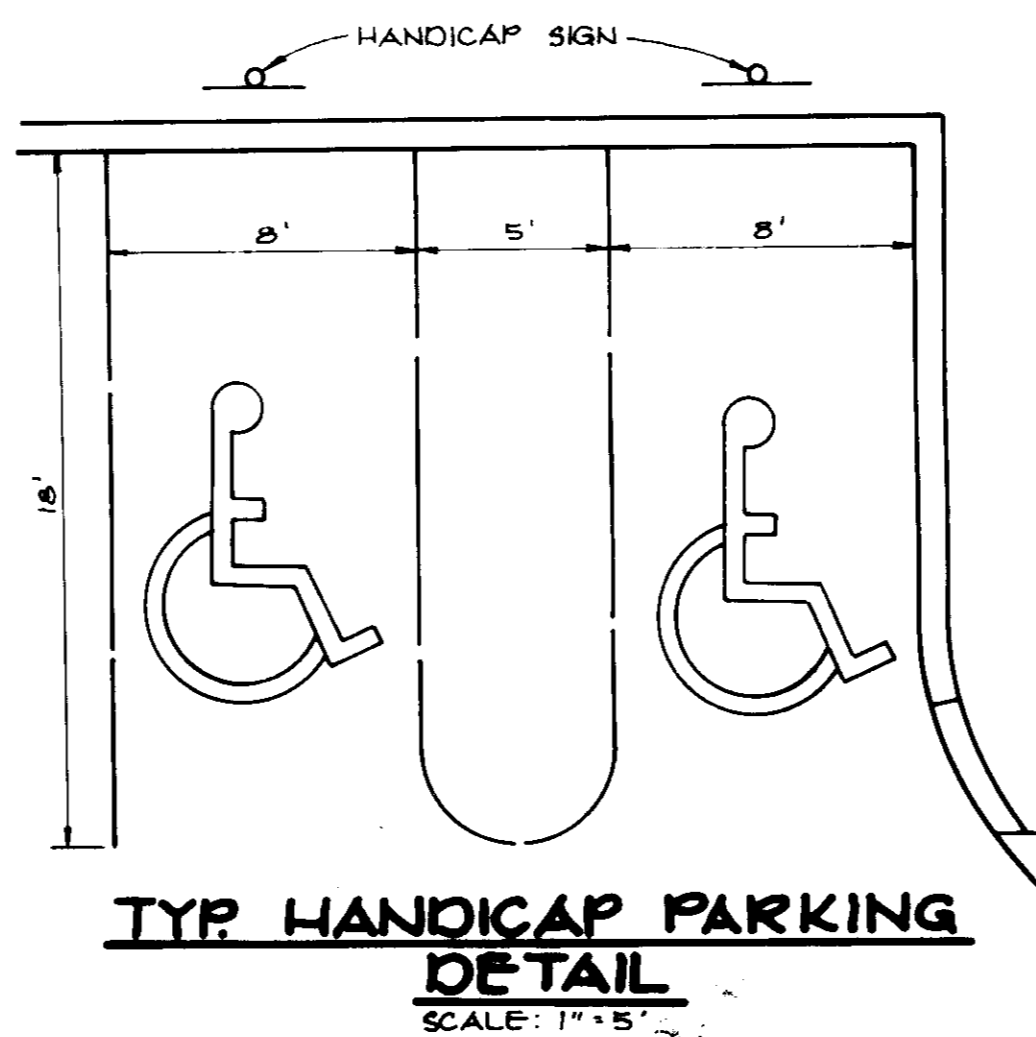
THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3105 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-2880

DATE 4-28-88
 DESIGNED BY J.D.P.
 DRAWN BY S.R.D.
 PROJECT NO 28202
 DATE
 SCALE 1" = 30'
 DRAWING NO 3 OF 7

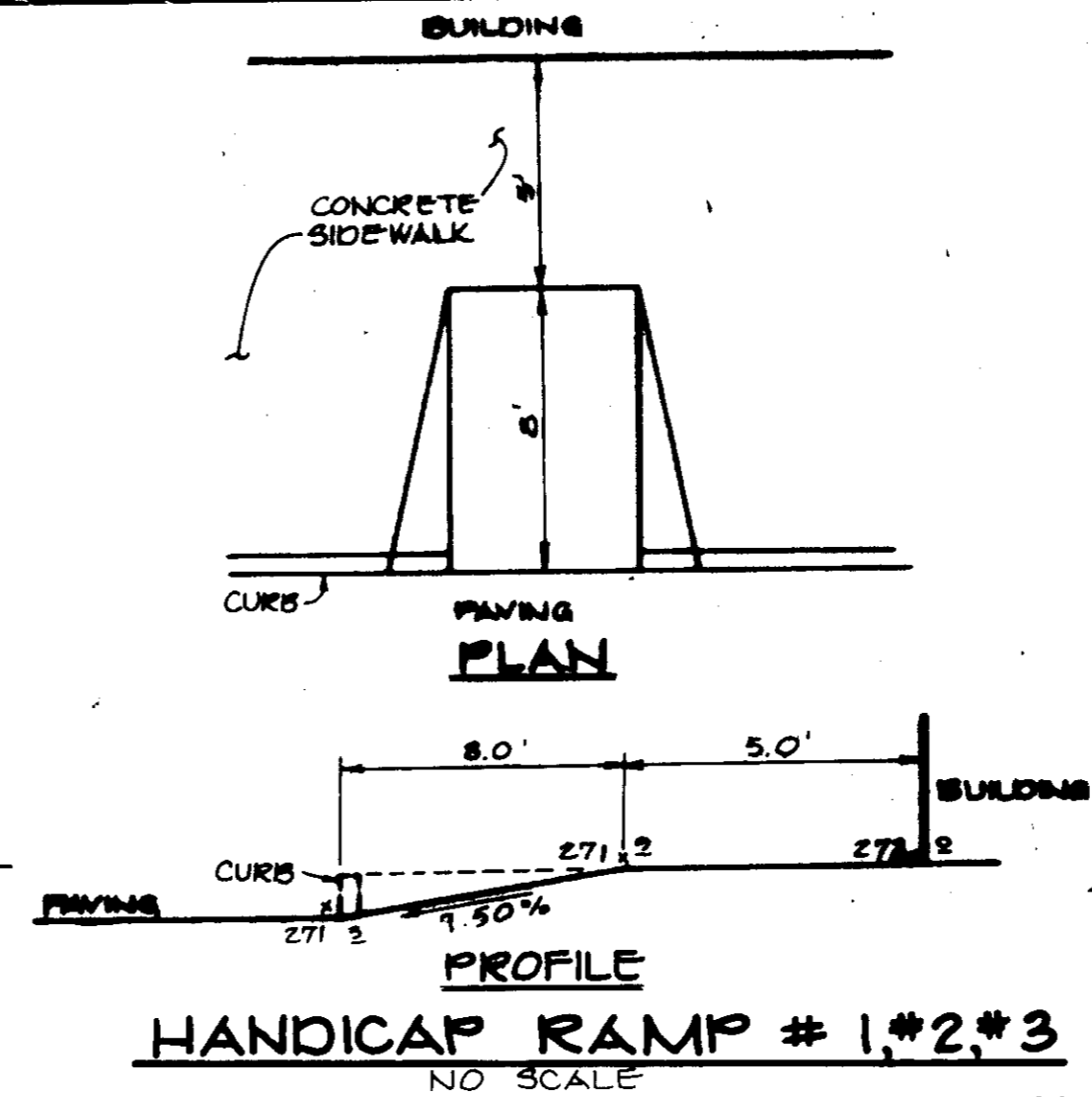
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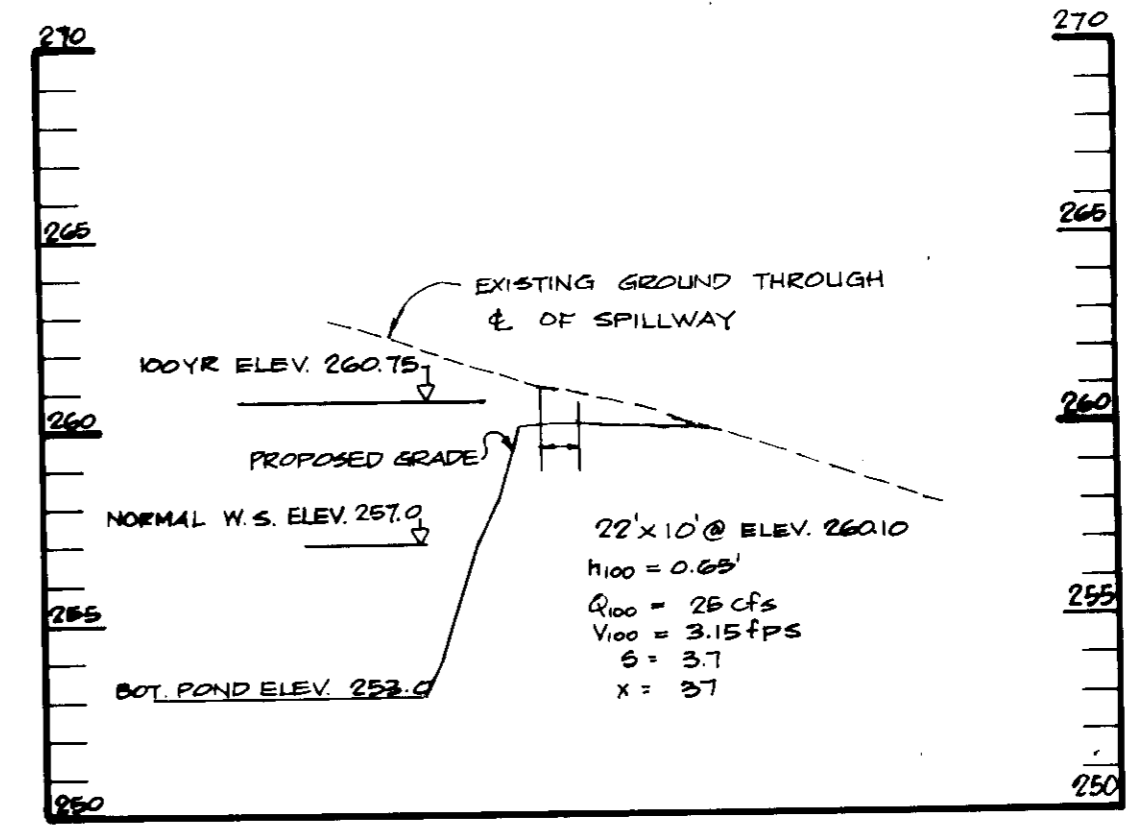
PROFILE
SCALE: HOR. 1" = 50'
VERT. 1" = 5'



**TYP HANDICAP PARKING
DETAIL**
SCALE: 1/4" = 1'

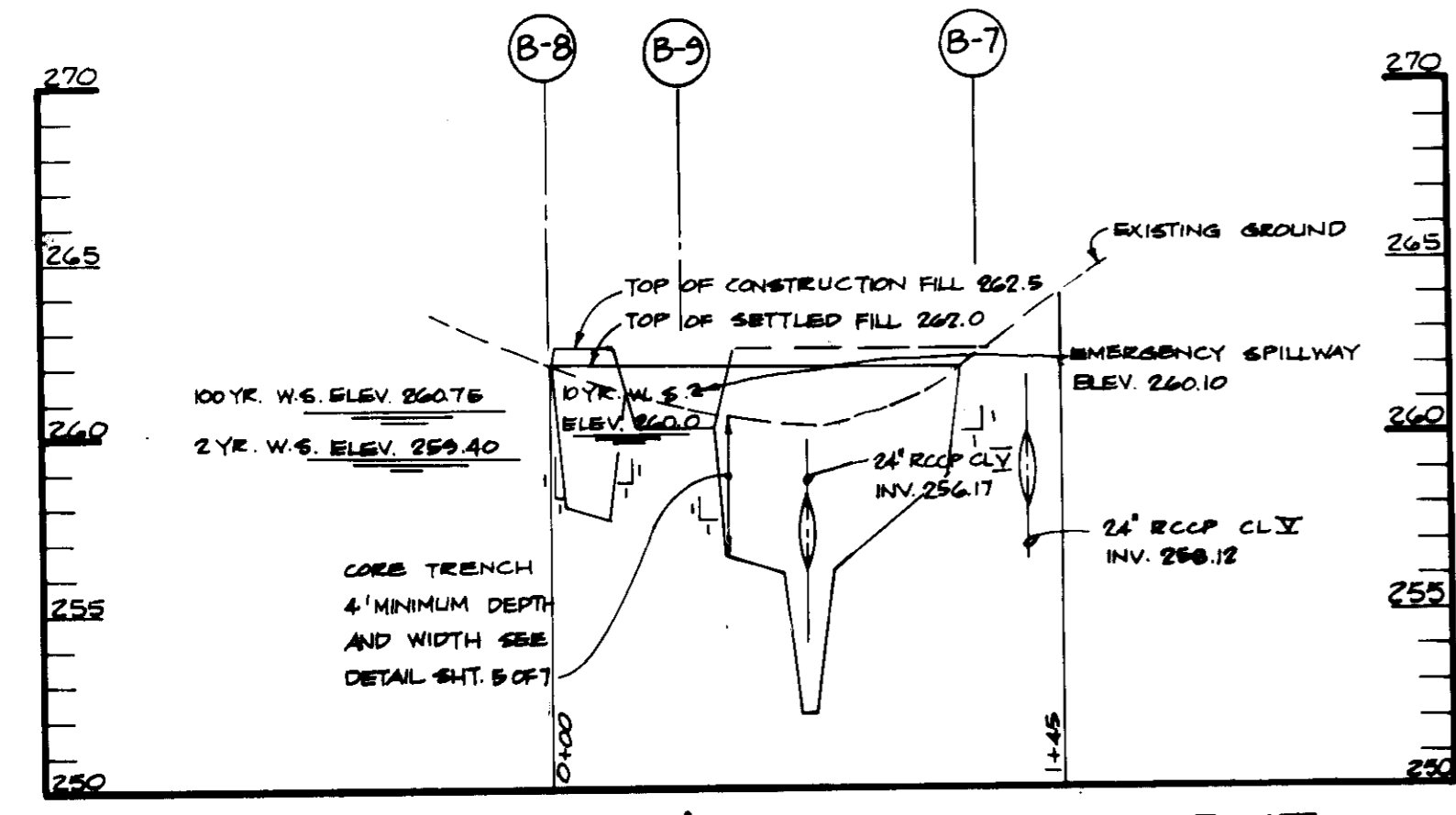


**PROFILE
HANDICAP RAMP # 1, 2, 3**
NO SCALE

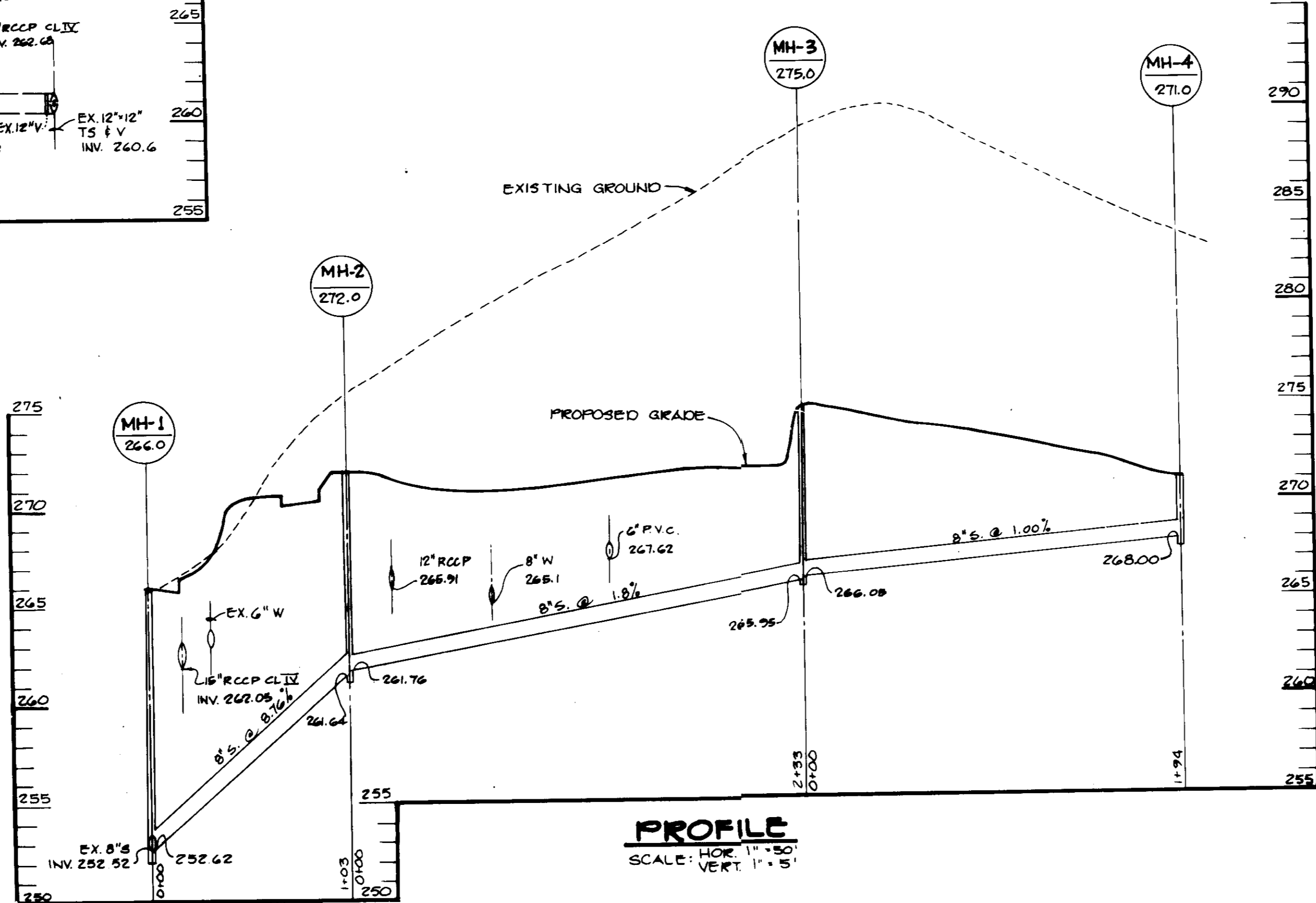


**PROFILE THROUGH EMERGENCY
SPILLWAY**
SCALE: VERT. 1" = 5'
HORIZ. 1" = 50'

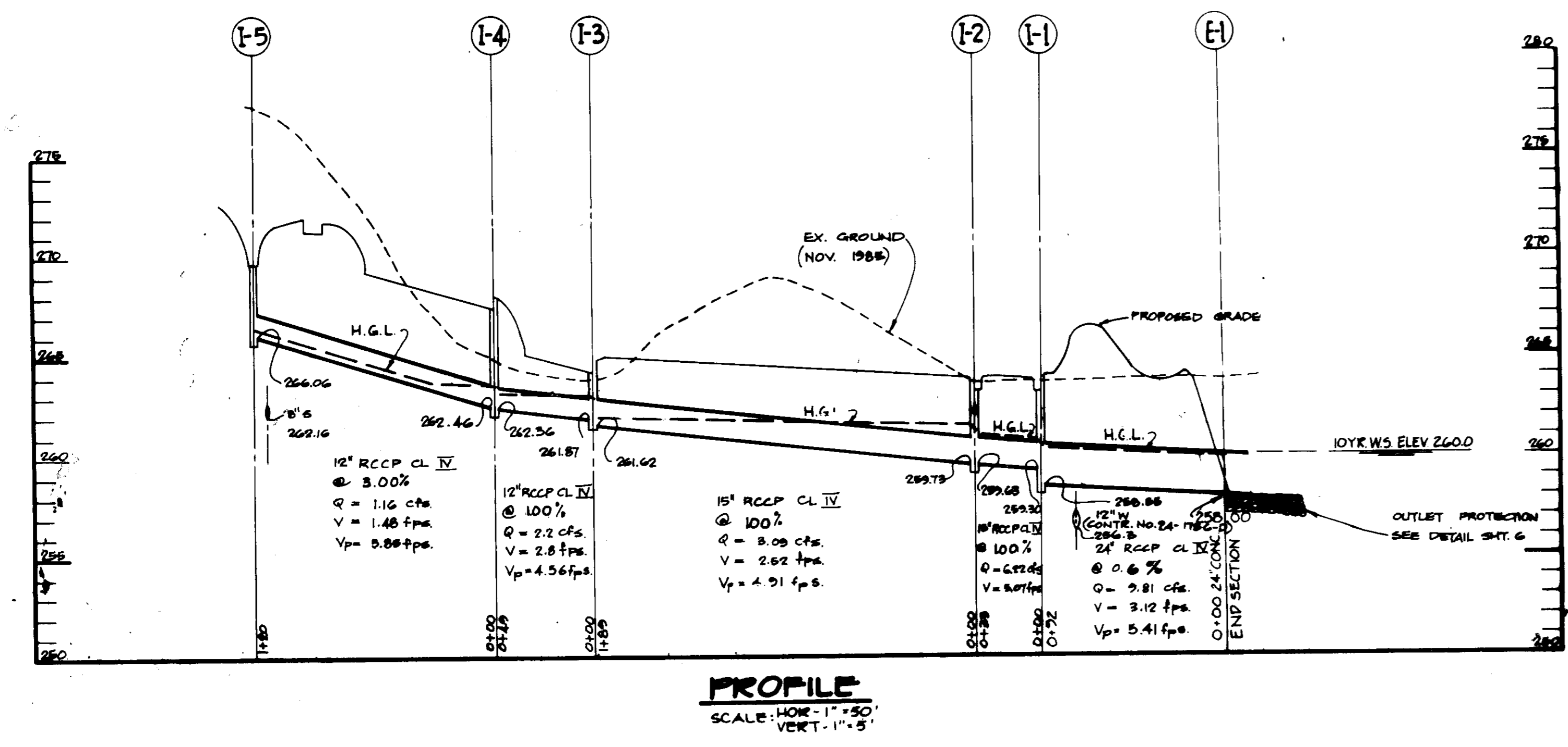
NOTE:
24" CONCRETE PIPE IS TO HAVE A CONCRETE CRADLE IN DESIGN
CONFORMANCE WITH MD CO. STD. 8 & 8PSC.



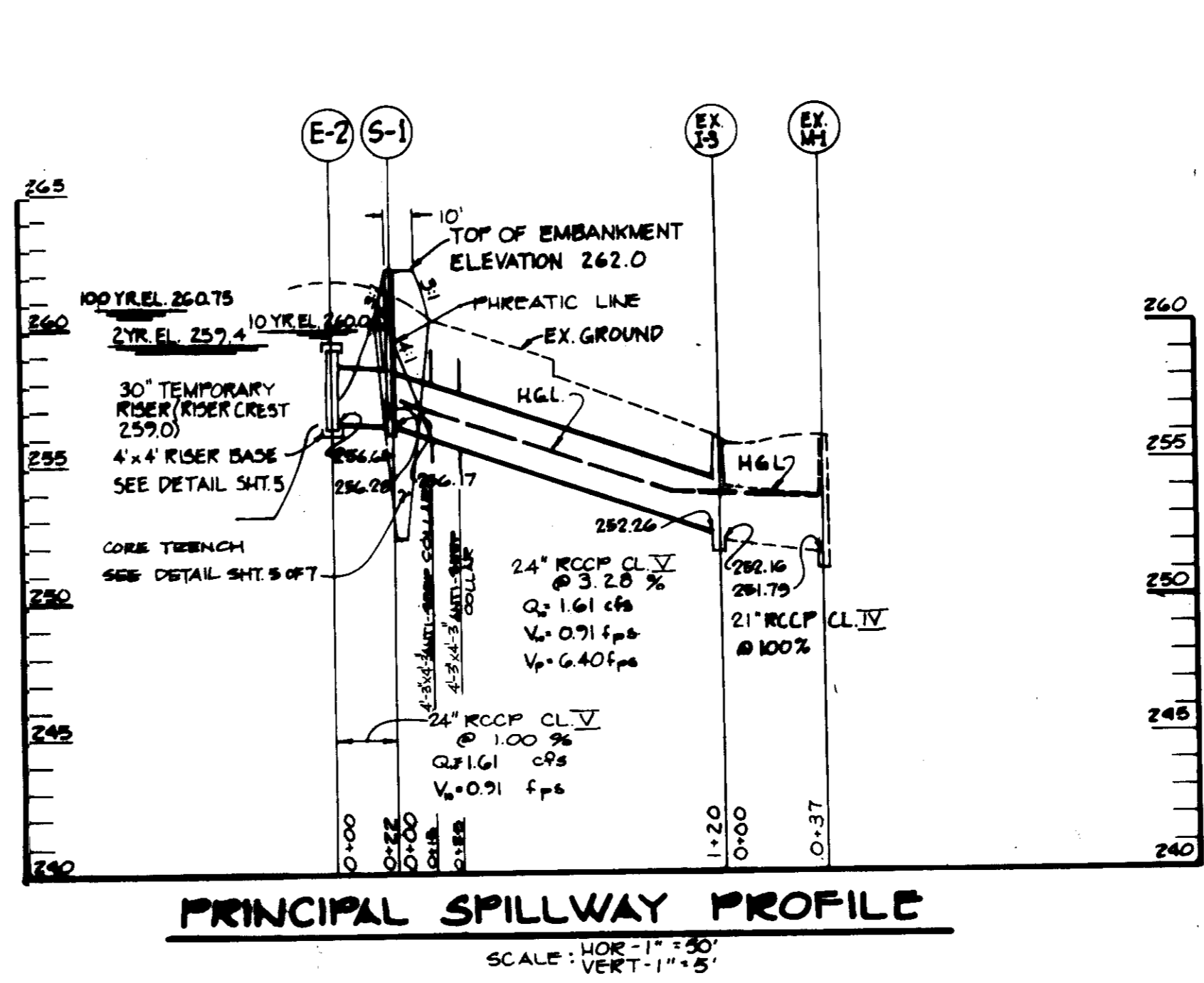
PROFILE ALONG C OF EMBANKMENT
SCALE: HOR. 1" = 50'
VERT. 1" = 5'



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



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



PRINCIPAL SPILLWAY PROFILE
SCALE: HOR. 1" = 50'
VERT. 1" = 5'

BY THE DEVELOPER:
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 NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION DURING THE PROJECT. I ALSO AUTHORIZE THE ENGINEER TO MAKE NECESSARY ADJUSTMENTS TO THIS PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
L. N.A. LTD. PARTNERSHIP
N.A. LIMITED PARTNERSHIP
DATE: 4-19-88

BY THE ENGINEER:
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.
Adrian C. Pungy
ENGINEER
DATE: 4-25-88

REVIEWED FOR: HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
James H. Helm
U.S. SOIL CONSERVATION SERVICE
DATE: 5-12-88

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziehm
HOWARD S.C.D.
DATE: 5-12-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. ...
COUNTY HEALTH OFFICER
DATE: 9-12-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
...
PLANNING DIRECTOR
DATE: 9-19-88
...
CHIEF, DIVISION OF COUNTY PLANNING AND LAND DEVELOPMENT
DATE: 9-19-88

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
...
DIRECTOR
DATE: 9-19-88
...
CHIEF, BUREAU OF ENGINEERING
DATE: 9-19-88

DATE	NO.	REVISION

OWNER/DEVELOPER
N.A. LTD. PARTNERSHIP
ONE OAKWOOD BUSINESS CRT.
7050 OAKLAND MILLS ROAD
SUITE 100
COLUMBIA, MARYLAND 21046

PROJECT: **NORTH GREENBRIER**
A COMMERCIAL BUILDING

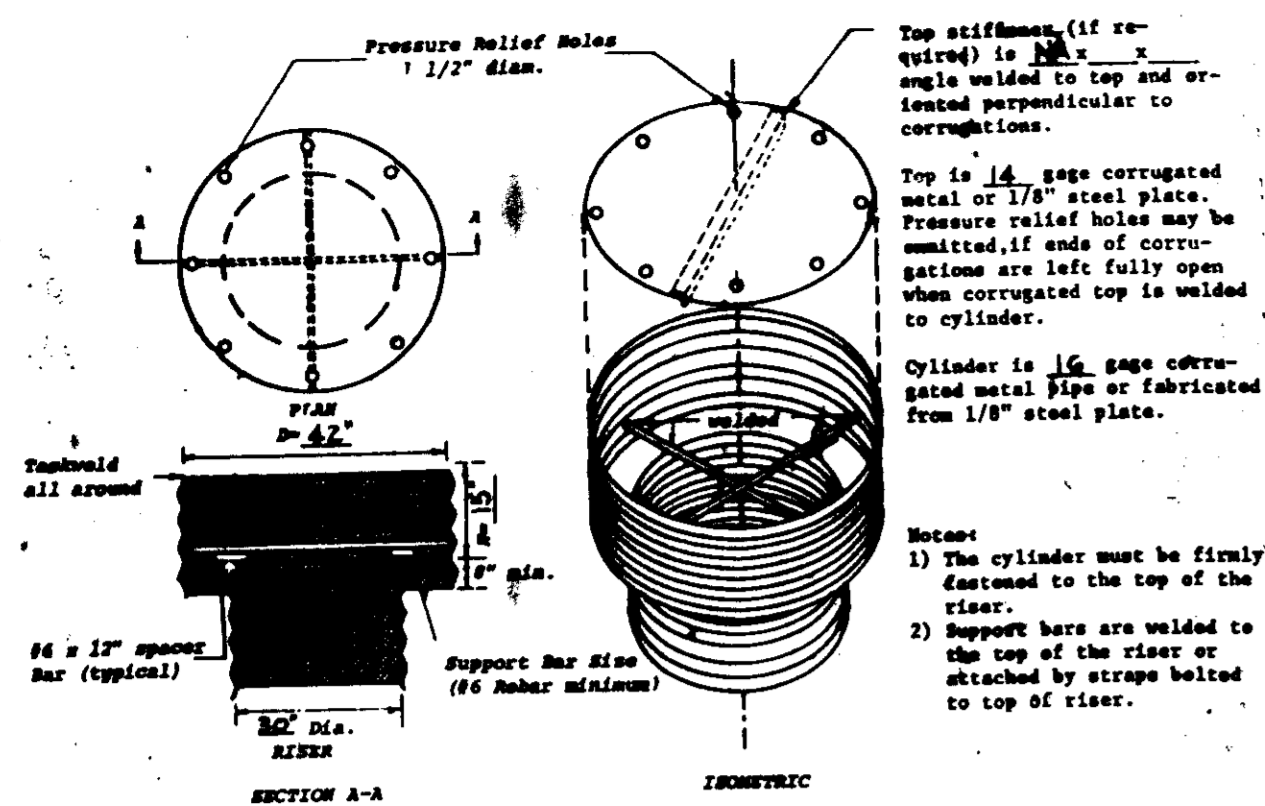
AREA TAX MAP 48 PLAY #8, 828
8TH ELECTRIC DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **PROFILES AND DETAILS**

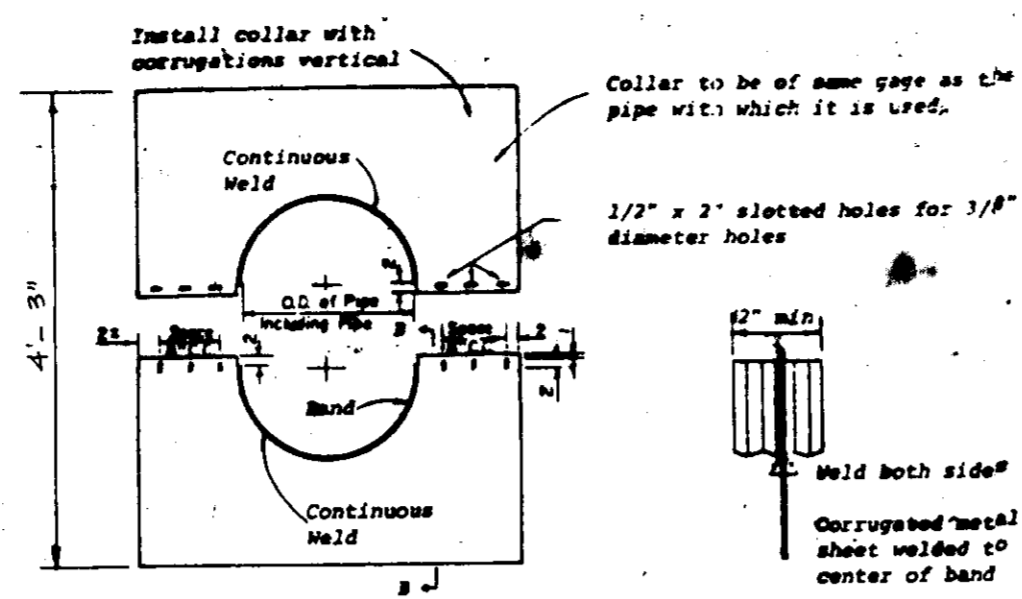
THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-8880

DATE: 11-9-87

DESIGNED BY: J.D.P.
DRAWN BY: R.E.A.
PROJECT NO.: 2540C
DATE:
SCALE: AS SHOWN
DRAWING NO. 4 OF 7

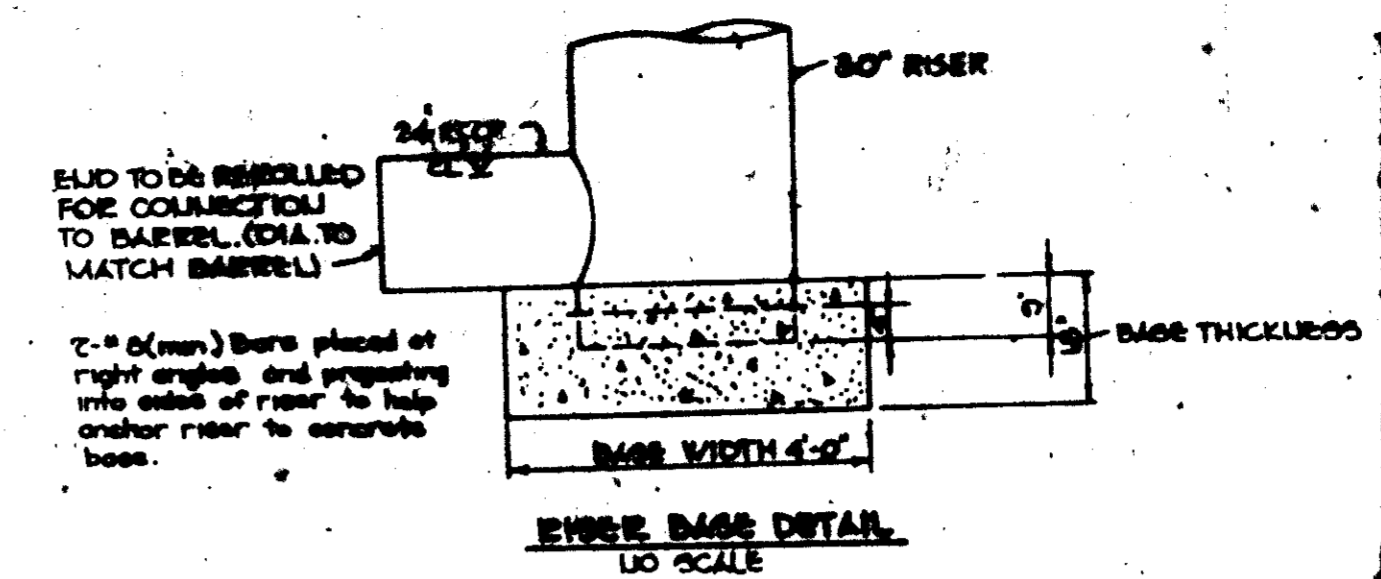


TRASH RACK DETAIL FOR TEMPORARY RISER
NO SCALE



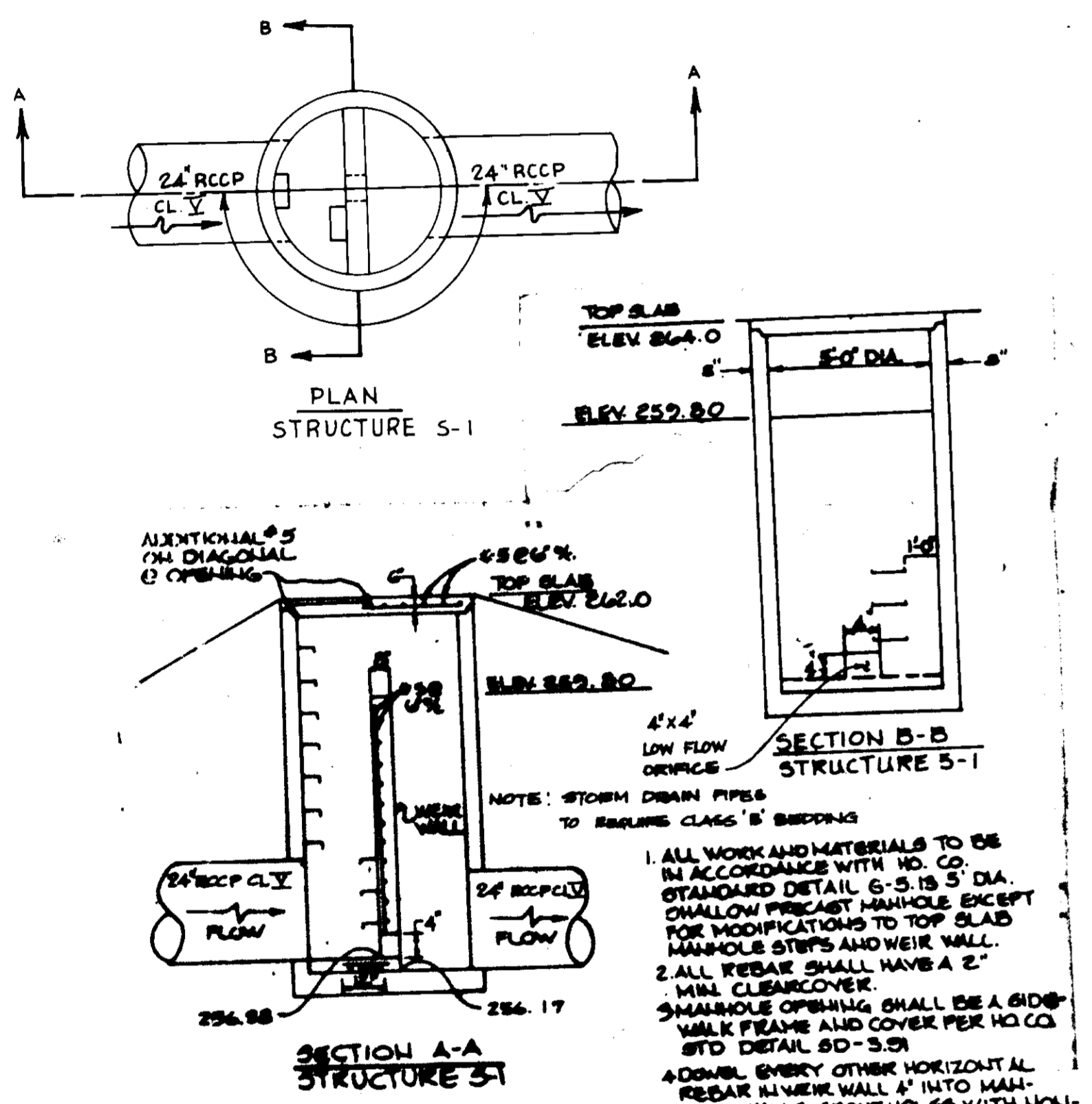
ANTI-SEEP COLLAR DETAIL
NO SCALE

- NOTES FOR COLLARS:
- All materials to be in accordance with construction and construction material specifications.
 - When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
 - Unassembled collars shall be marked by painting or tagging to identify matching pairs.
 - The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
 - Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

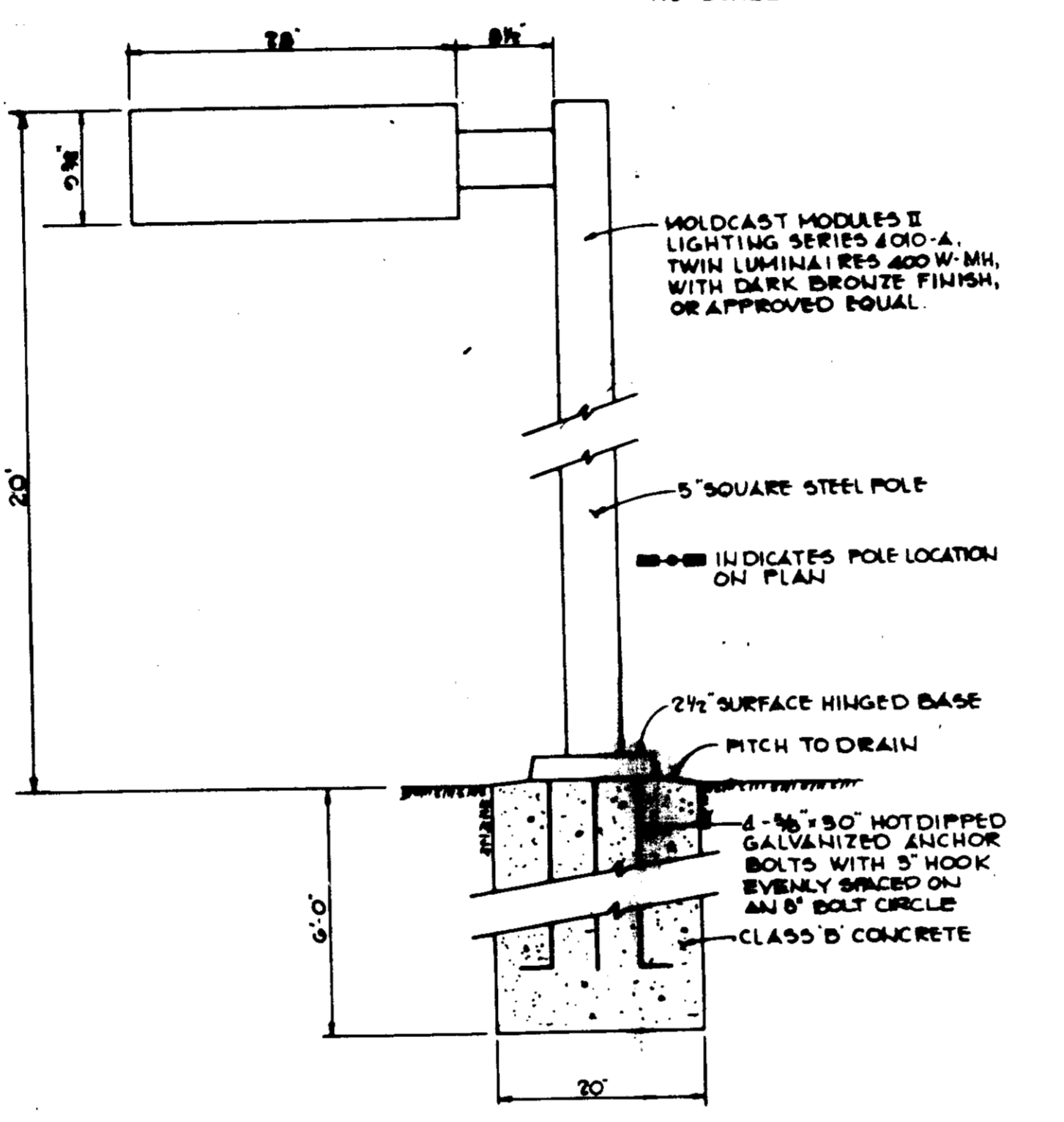


NOTE: The concrete base shall be poured in such a manner to insure that the concrete fills the bottom of the riser to the invert of the outlet pipe to prevent the riser from breaking away from the base.

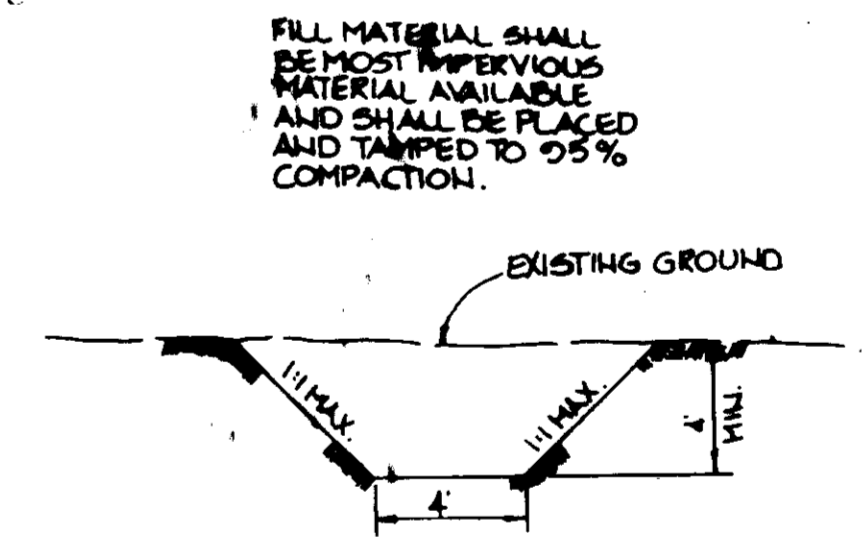
TEMPORARY RISER BASE DETAIL
NO SCALE



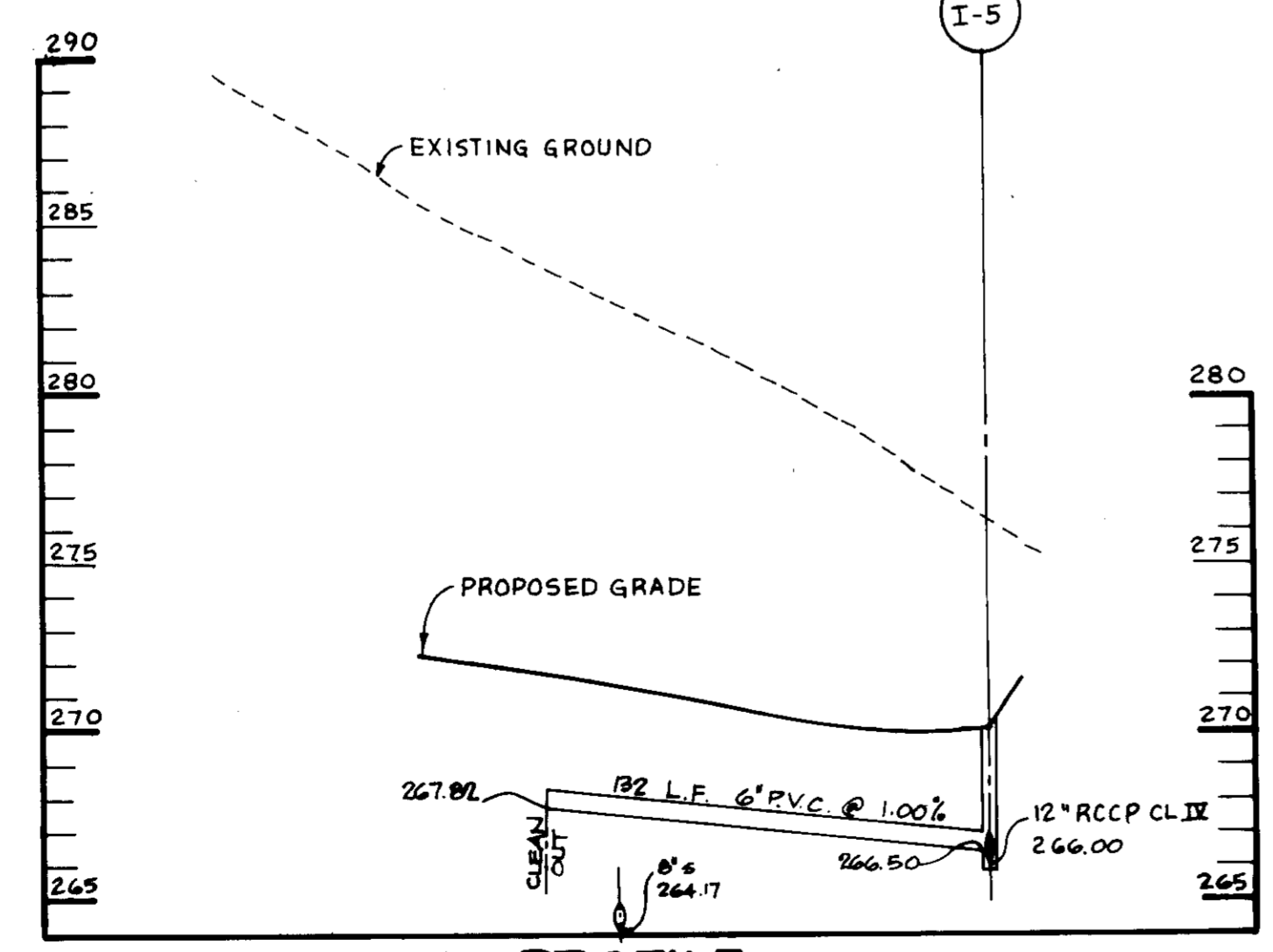
CONTROL STRUCTURE S-1
NO SCALE



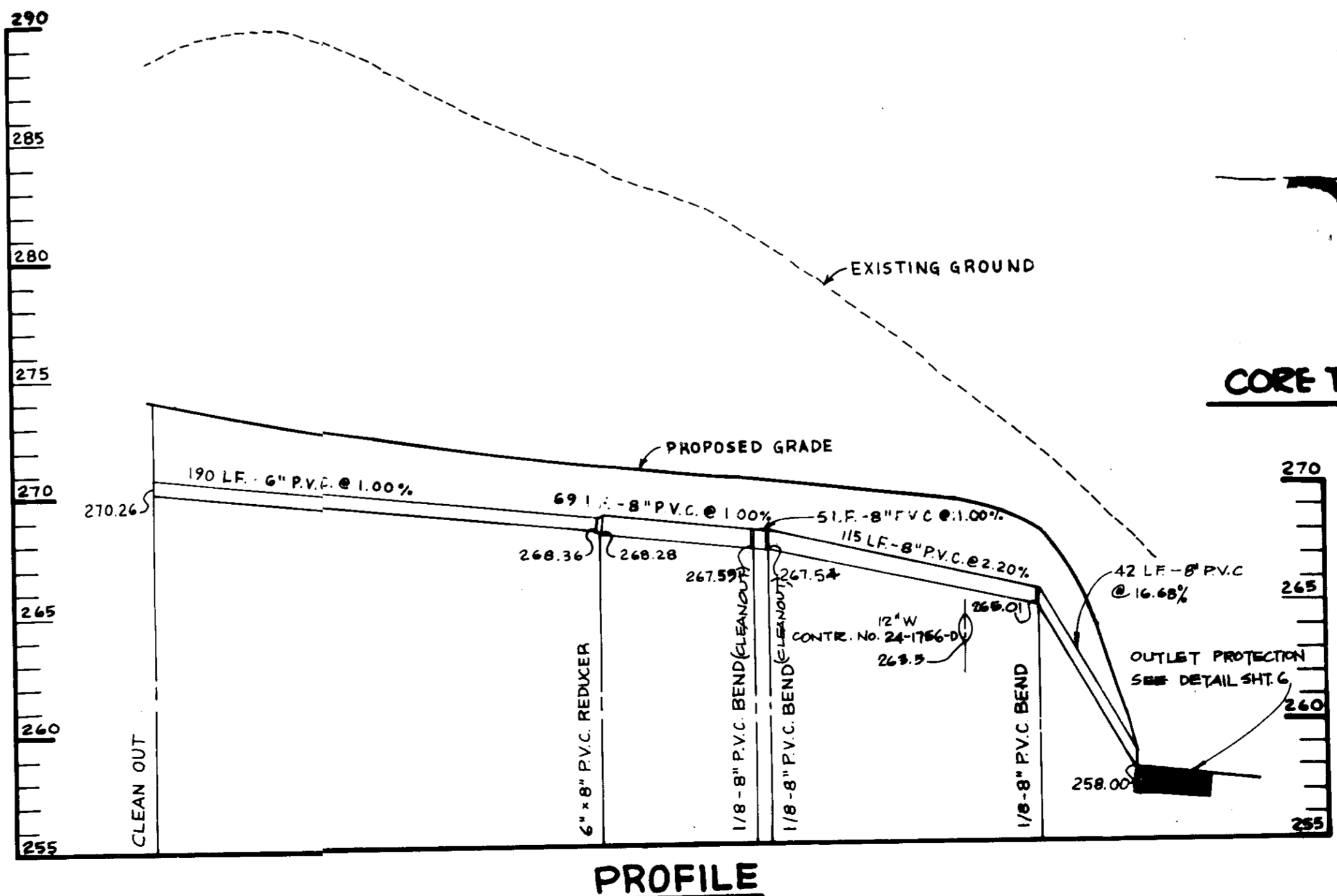
POLE LIGHT DETAIL
NO SCALE



CORE TRENCH TYP. SECTION
NO SCALE



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



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

APPROVED

LAND DEVELOPMENT & ZONING ADMINISTRATION

HOWARD COUNTY, MARYLAND

DATE 11-9-87

BY THE DEVELOPER:

"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 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."

DATE 4-17-88

L. EARL ARMSTRONG GENERAL PARTNER
N.E.A. LIMITED PARTNERSHIP

BY THE ENGINEER:

"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."

DATE 4-28-88

ENGINEER

REVIEWED FOR HOWARD S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS

DATE 5-12-88

U.S. SOIL CONSERVATION SERVICE

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

DATE 5-12-88

HOWARD S.C.D.

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

DATE 9-12-88

COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

DATE 9-19-88

PLANNING DIRECTOR

DATE 5-12-88

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 9-1-88

DIRECTOR

DATE 9-9-88

CHIEF, BUREAU OF ENGINEERING

DATE	NO.	REVISION

OWNER/DEVELOPER

N.G.A. LTD. PARTNERSHIP
ONE OAKWOOD BUSINESS CTR.
7050 OAKLAND MILLS ROAD
SUITE 100
COLUMBIA, MARYLAND 2046

PROJECT: NORTH GREENBRIER
A COMMERCIAL BUILDING

AREA: TAX MAP 42 PLAT NO. 6966 PARCEL B
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: PROFILES AND DETAILS

THE RIEMER GROUP, INC.

The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3106 Health Park Drive, Ellicott City, Maryland 21048 (301) 481-2880

DATE 4-28-88

DESIGNED BY: M.E.M.

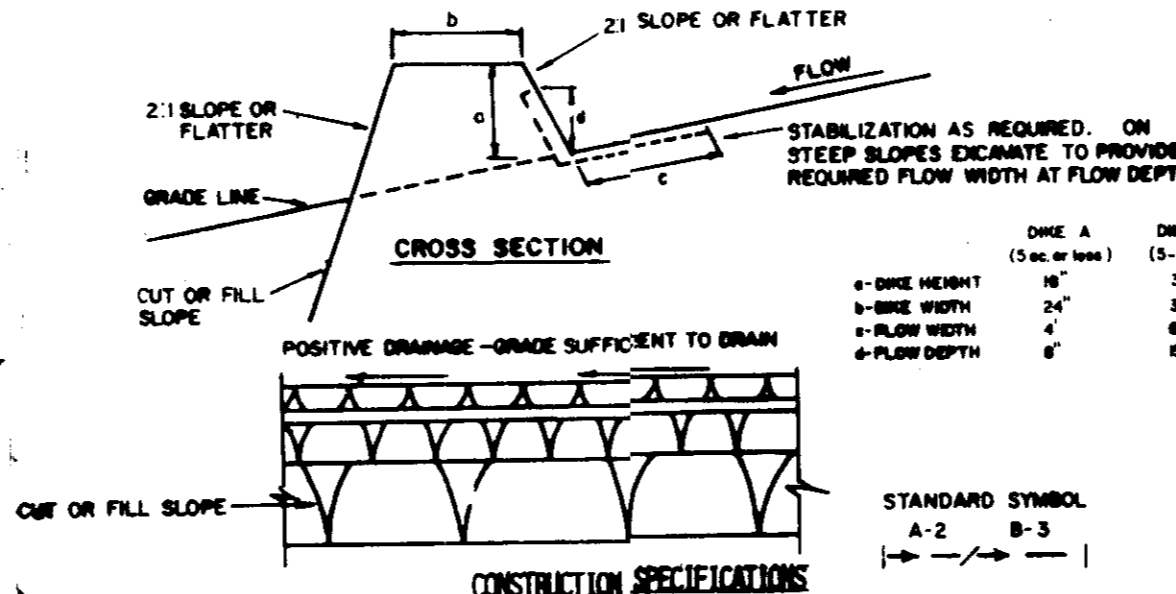
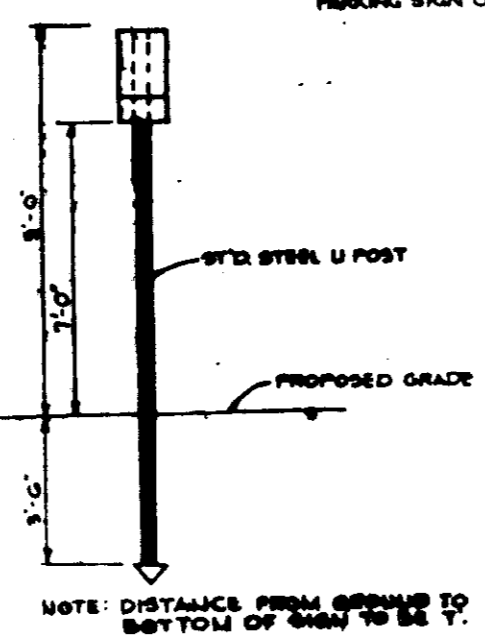
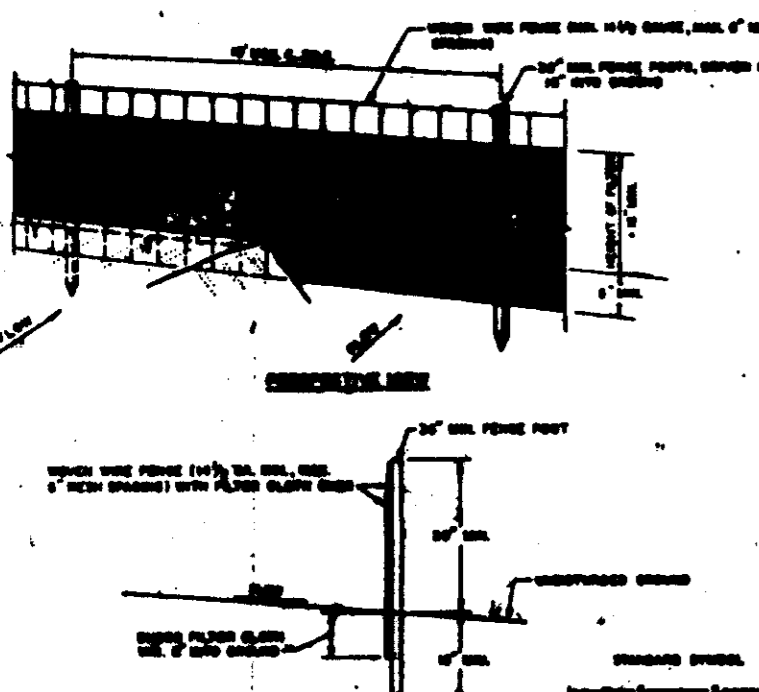
DRAWN BY: S.R.D.

PROJECT NO: 2540E

DATE: 11-9-87

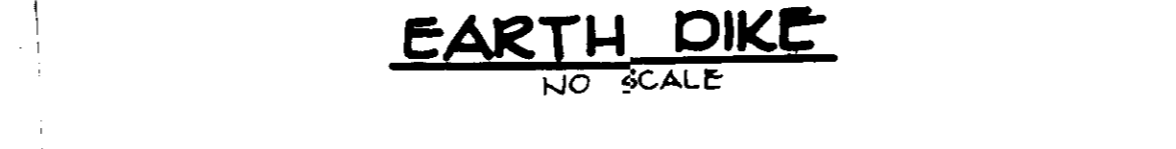
SCALE: AS SHOWN

DRAWING NO. 5 OF 7

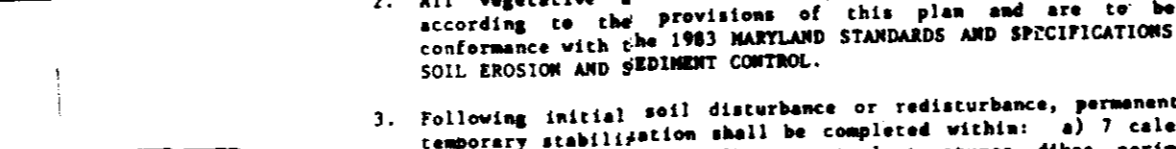
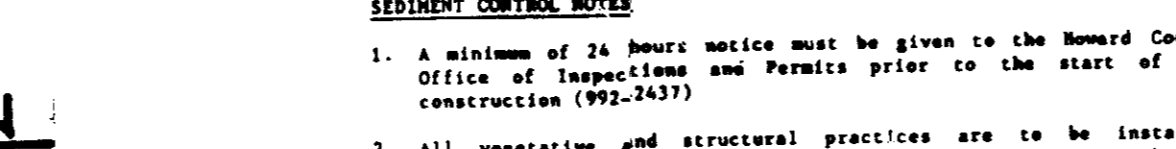


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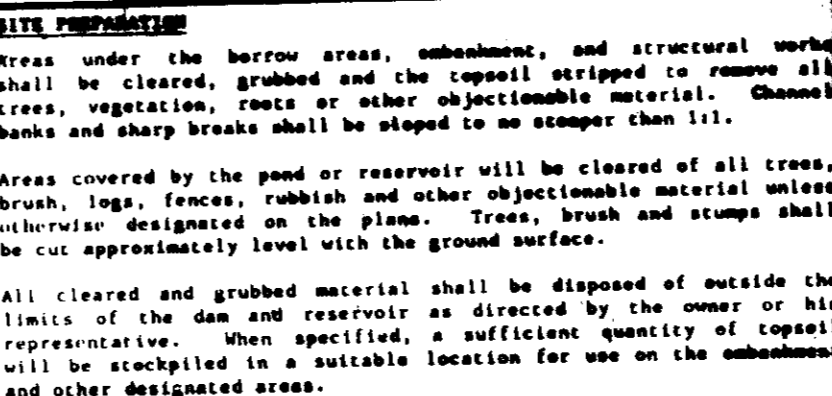
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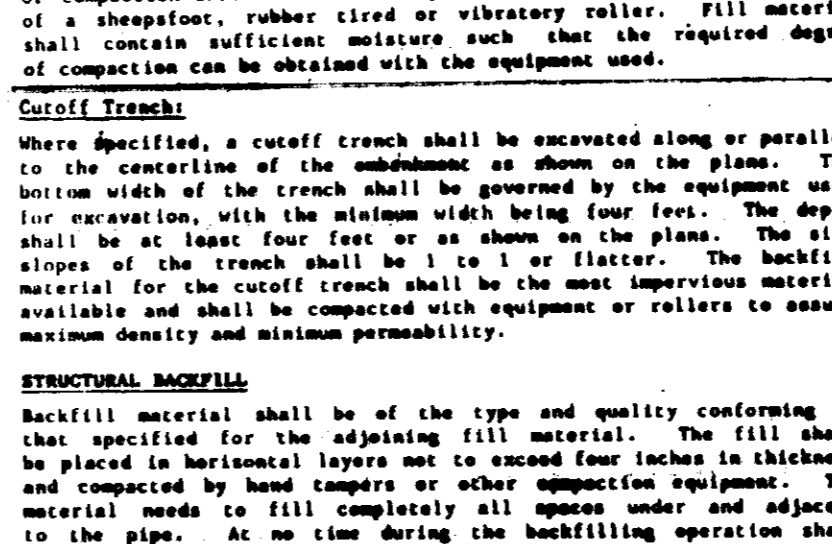
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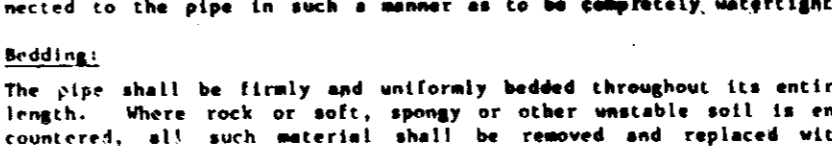
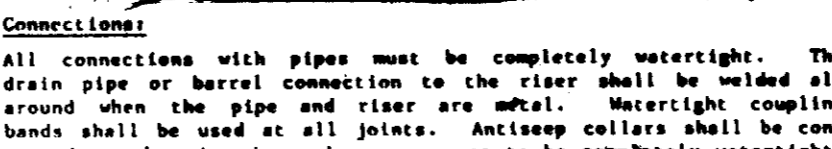


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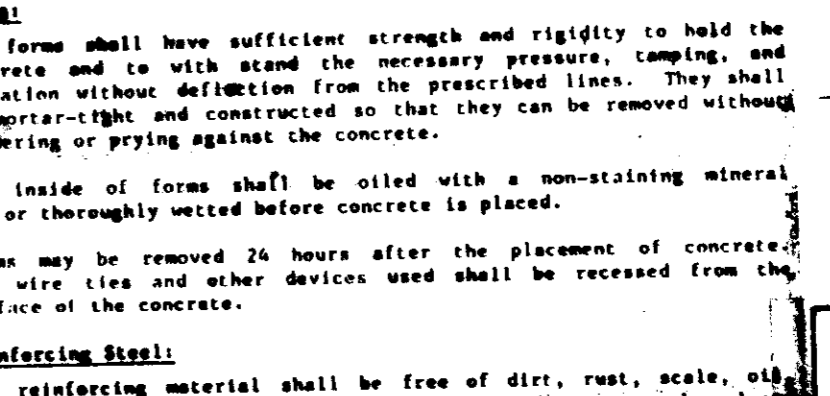
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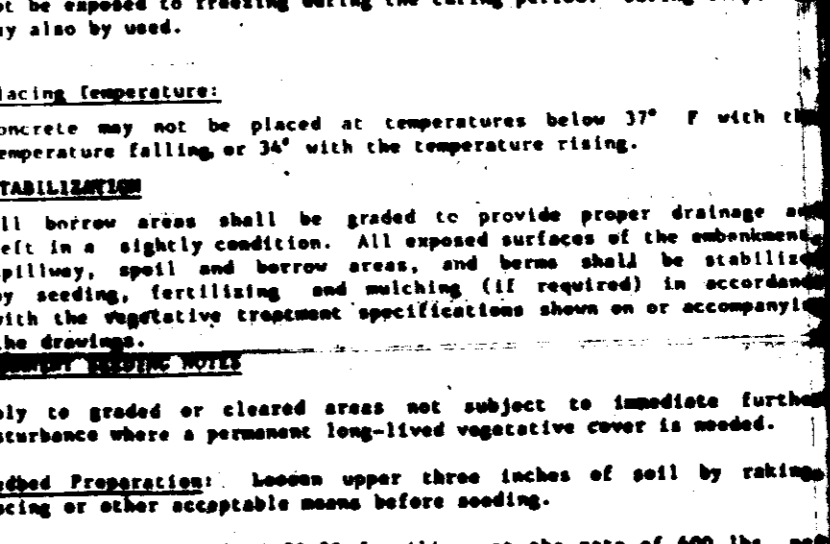
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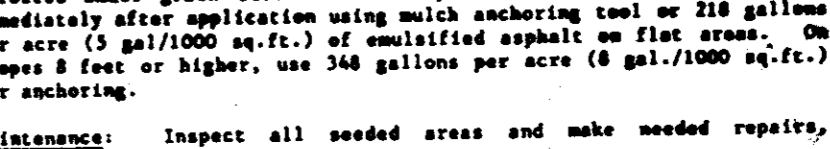
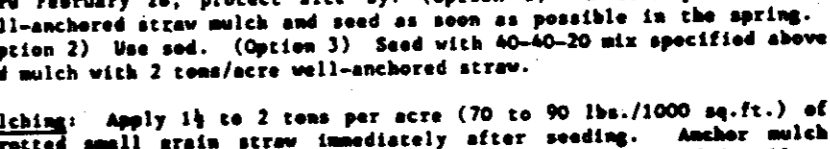


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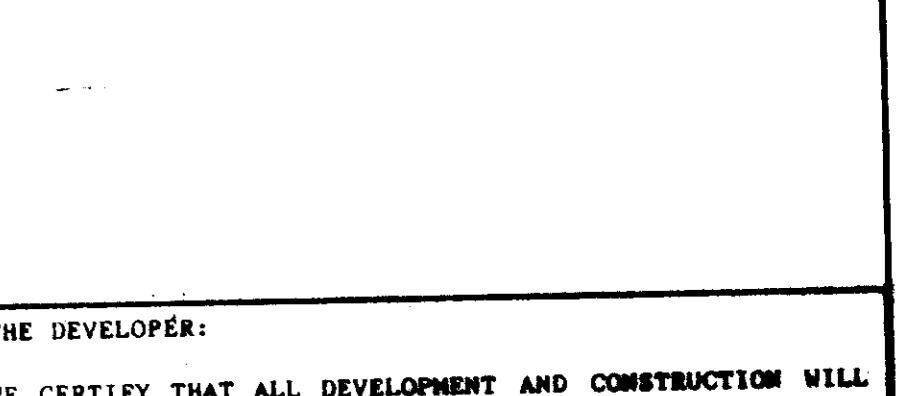
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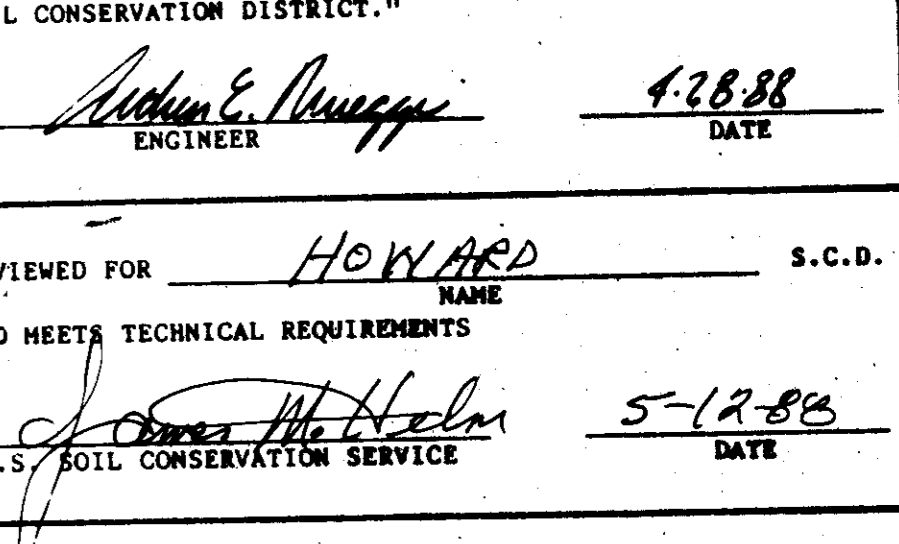
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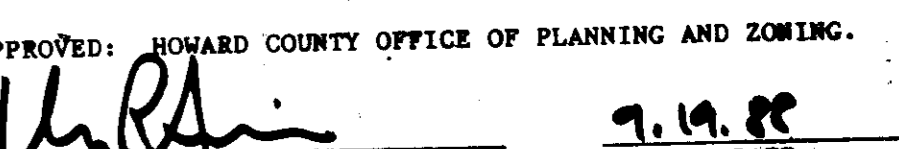
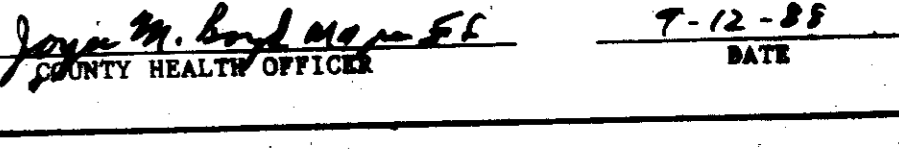


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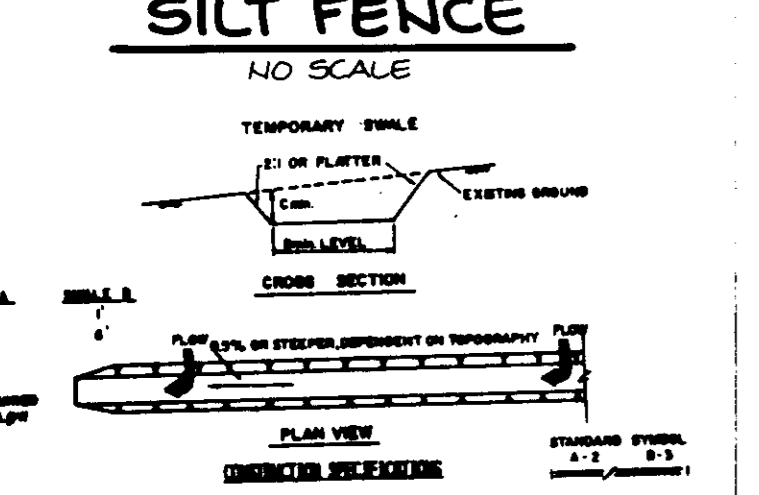
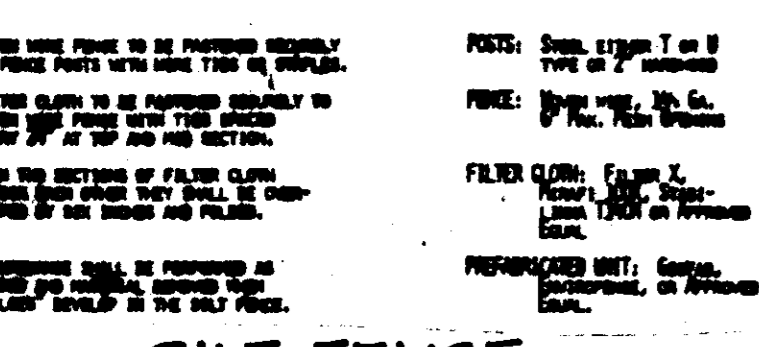
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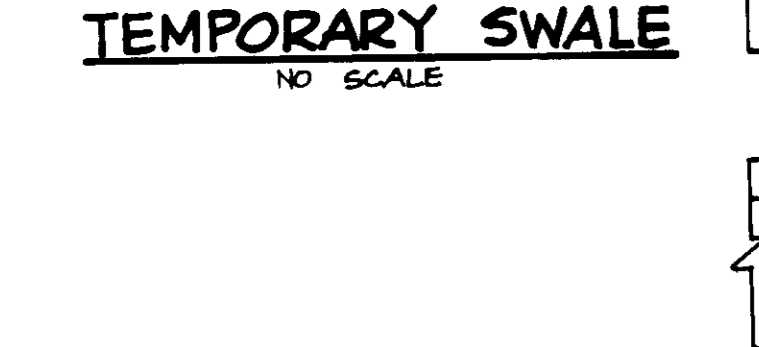
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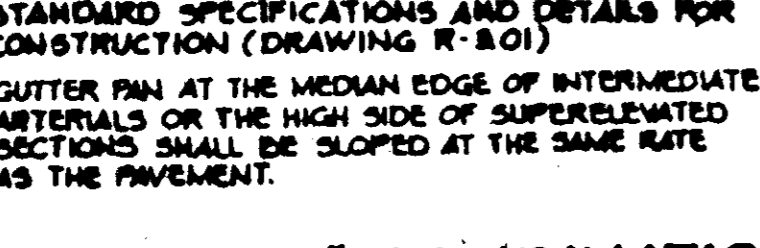
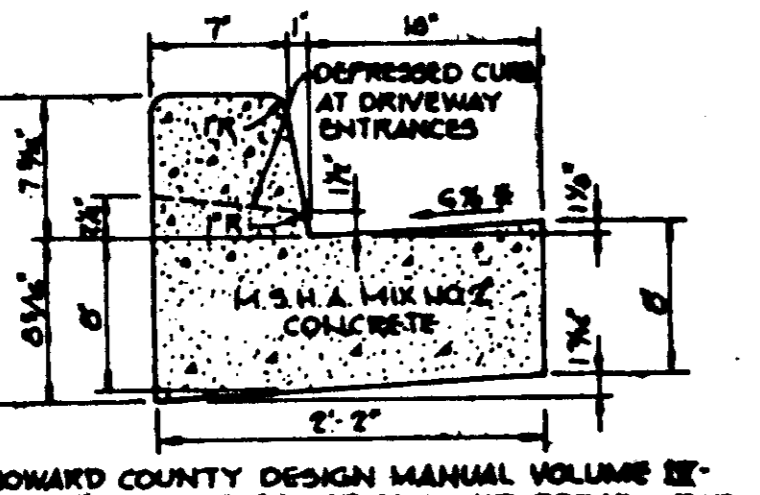


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6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.

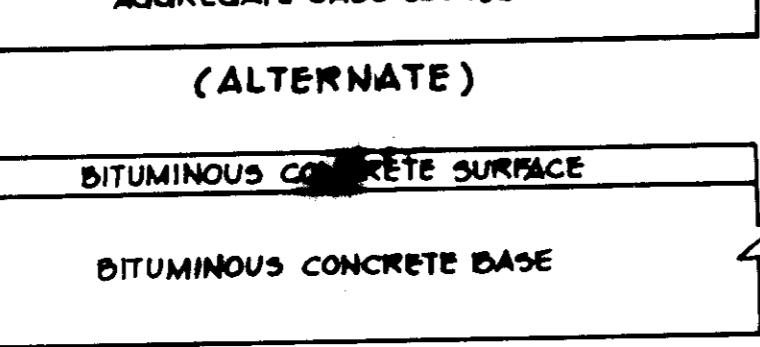
TYPE OF TREATMENT	CHANNEL SIZE	DIKE B
1	5-3.0X	SEED AND STRAW MULCH
2	3.1-5.0X	SEED USING JUTE, OR EXCESSIVE SOIL; 2" STONE
3	5.1-8.0X	SEED WITH JUTE, OR SOIL; 2" STONE
4	8.1-20X	LINED RIP-RAP 4-8"



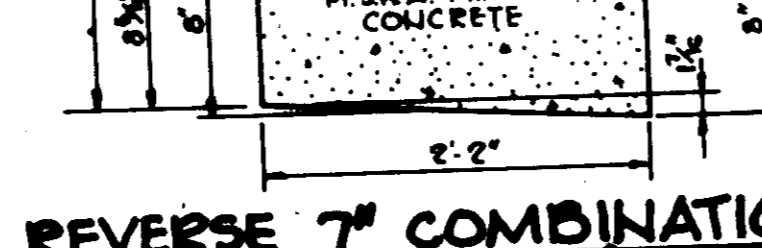
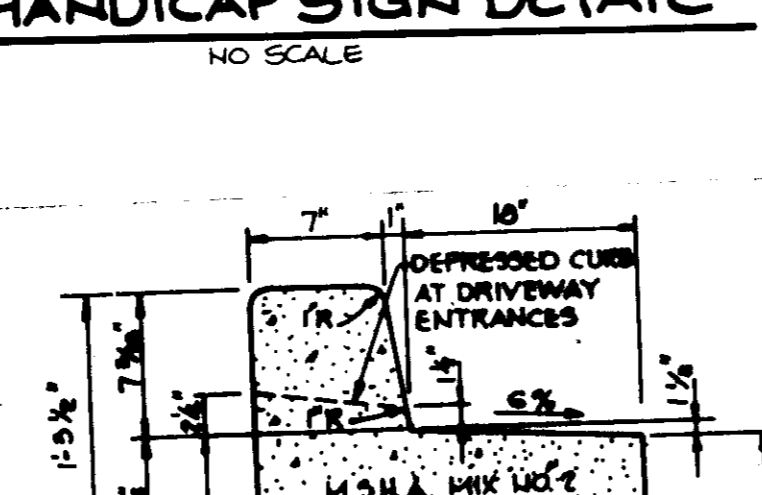
- A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 5 inches in thickness and be pressed into the soil with construction equipment.
- B. Rip-rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.
- C. Temporary stabilizations can be substituted for any of the above materials.
7. PERIODIC INSPECTION AND MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



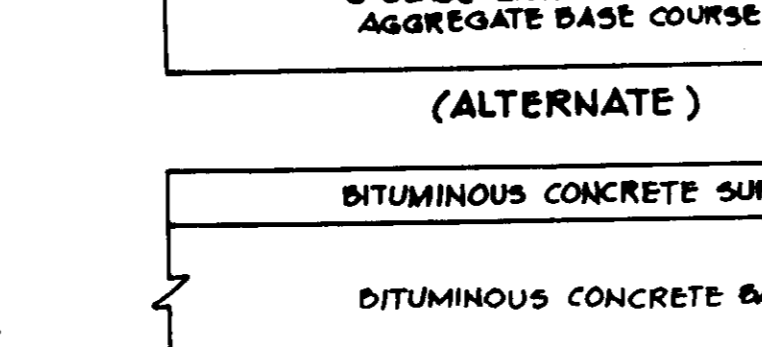
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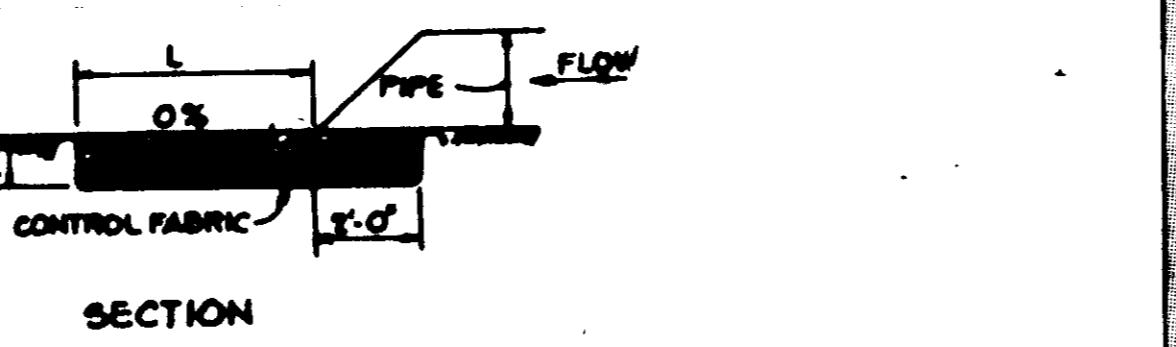
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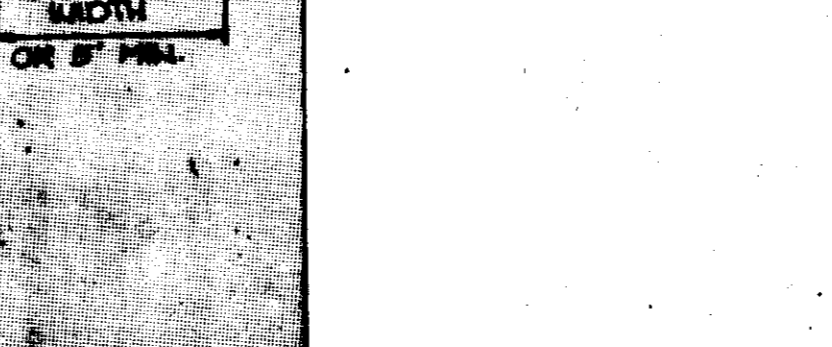
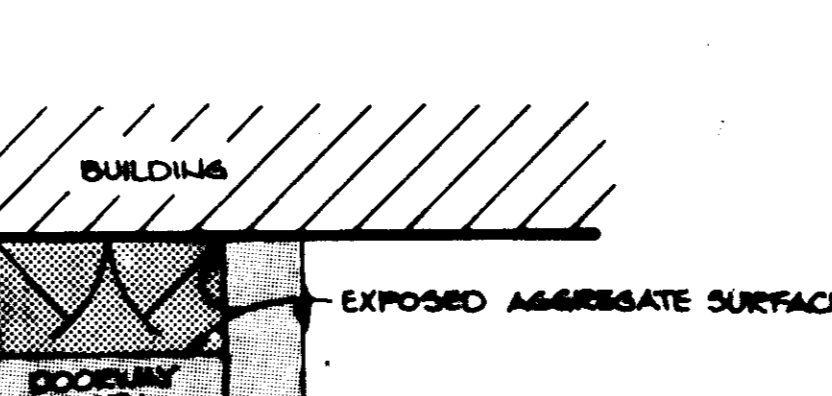
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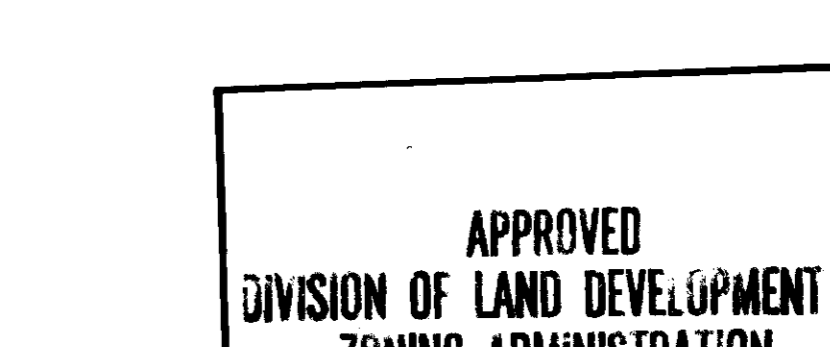
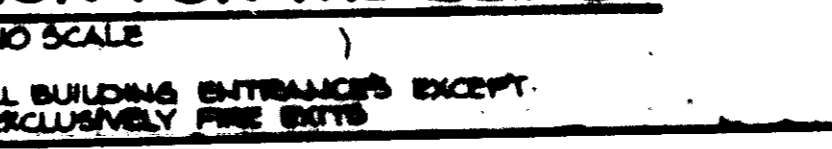
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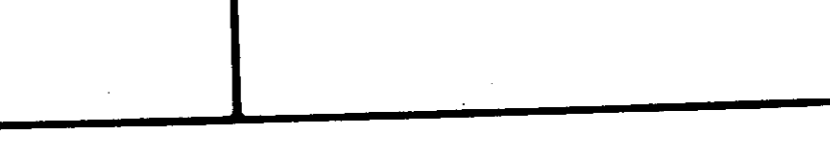
STRUCTURE	MEDIUM	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	STONE DIA.	13'	15'	15"
ROOF DRAIN	4"	10'	10'	12"



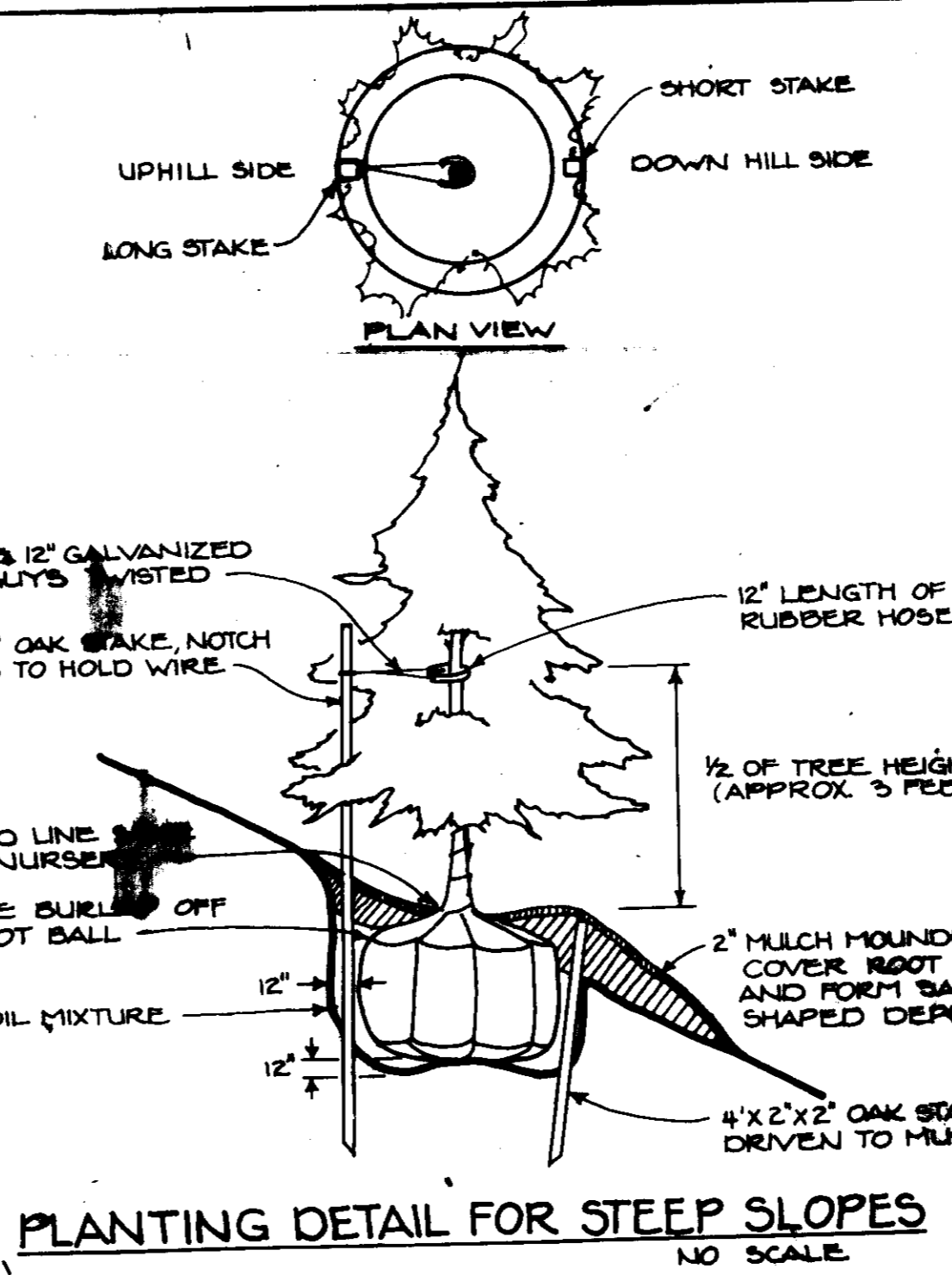
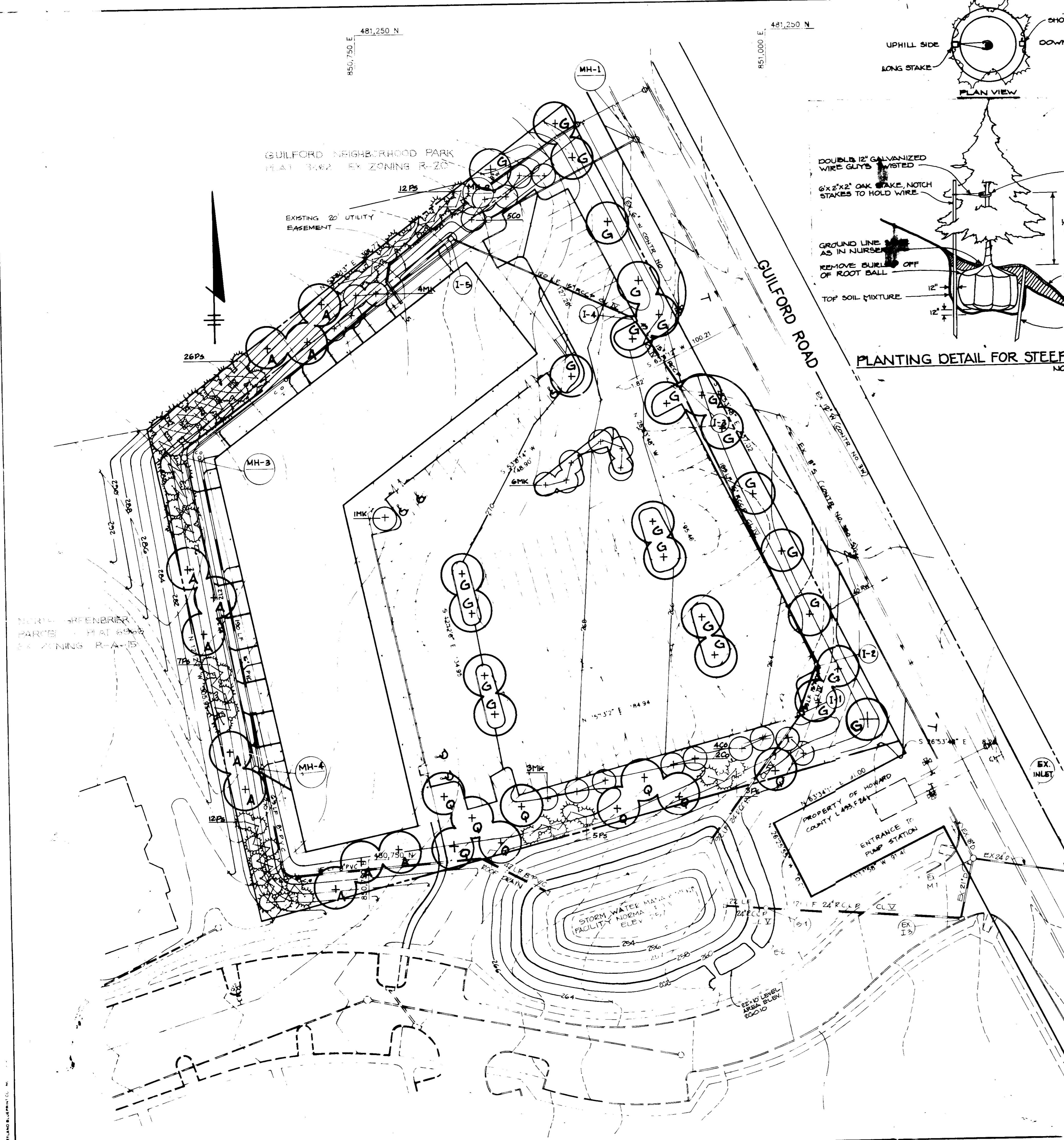
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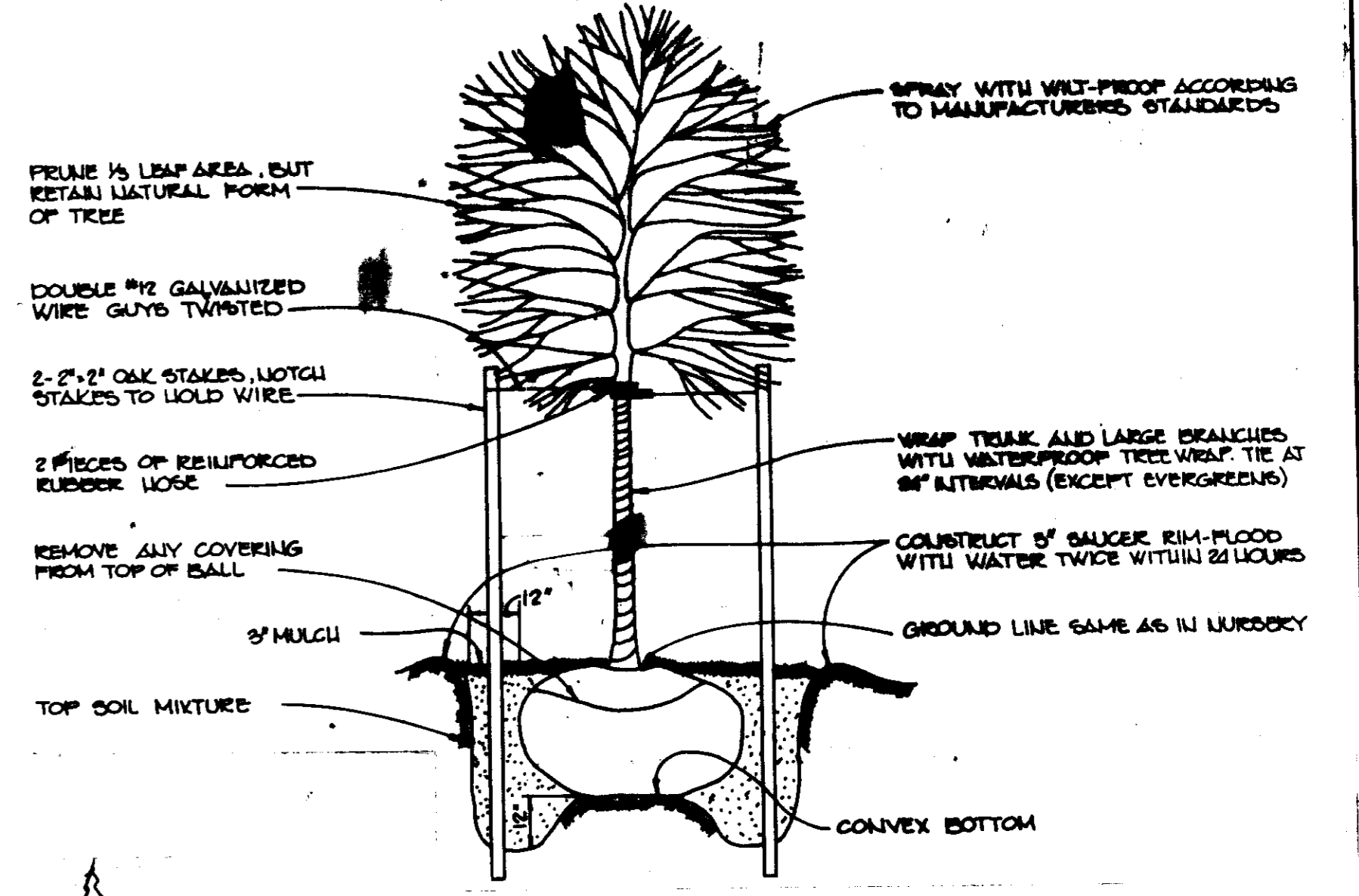
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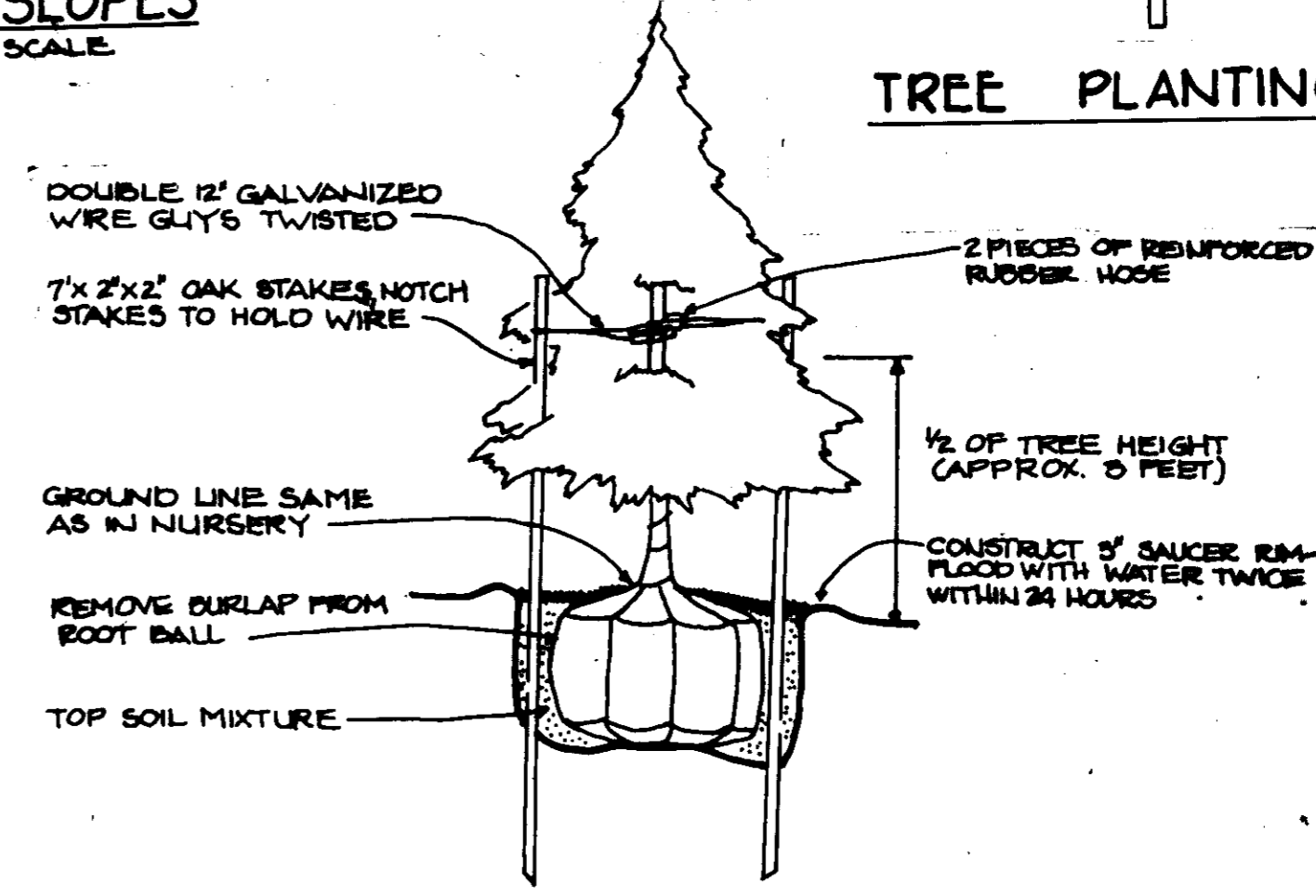
BY THE DEVELOPER:
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 L. EARL ANDERSON, GENERAL MANAGER
 N.G.A. LIMITED PARTNERSHIP
 DATE: 4-19-



PLANTING DETAIL FOR STEEP SLOPES
NO SCALE



TREE PLANTING DETAIL
NO SCALE



EVERGREEN PLANTING DETAIL
NO SCALE

PLANT LIST

REQ. REQUIREMENT: 30 SHADE TREES PER UNWOODED ACRE x 3.0 ACRES = 90 SHADE TREES
PROPOSED: 45 SHADE TREES + 90 ORNAMENTAL & EVERGREEN TREES = EQUIVALENT OF 90 SHADE TREES

Qty.	Symbol	Name	Size	Remarks
11	A	ACER RUBRUM Red Maple	2 1/2" Cal., 13-15' Ht.	B&B, Full Head
11	G	CRATAEGUS OXYACANTHA SUPERBA Crimson Cloud Hawthorn	2-2 1/2" Cal., 9-11' Ht.	B&B, Full Head
11	B	HALIUS KATHERINE Katherine Crabapple	2-2 1/2" Cal., 9-11' Ht.	B&B, Full Head
9	C	QUERCUS BOREALIS Northern Red Oak	2 1/2" Cal., 13-15' Ht.	B&B, Full Head
10	S	PINUS STROBUS Eastern White Pine	2-2 1/2" Cal., 6-8' Ht.	B&B, Well Branched
25	G	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' SHADEMASTER HONEYLOCUST	2 1/2" CAL., 13-15' Ht.	B&B, FULL HEAD

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boylston, Esq. 9-12-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
William J. ... 9-14-87
PLANNING DIRECTOR DATE

Frank S. ... 9-16-87
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... 9/18/87
DIRECTOR DATE

William B. ... 9-29-87
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
N. G. A. LTD. PARTNERSHIP
ONE OAKWOOD BUSINESS CTR.
7050 OAKLAND MILLS ROAD
SUITE 100
COLUMBIA, MARYLAND 21046

PROJECT
NORTH GREENBRIER
A COMMERCIAL BUILDING

AREA TAX MAP 42 PLAT NO. 6966 PARCEL B
6TH ELECTION DISTRICT
HOWARD COUNTY MARYLAND

TITLE
PLANTING PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3106 Health Park Drive, Ellicott City, Maryland 21043 (301) 481-8880

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-9-87

4-29-88
STATE OF MARYLAND
MELANIE MOSER
LANDSCAPE ARCHITECT

DESIGNED BY R.H.
DRAWN BY M.S.
PROJECT NO 25402
DATE 4-29-88
SCALE 1" = 30'
DRAWING NO. 7 OF 7