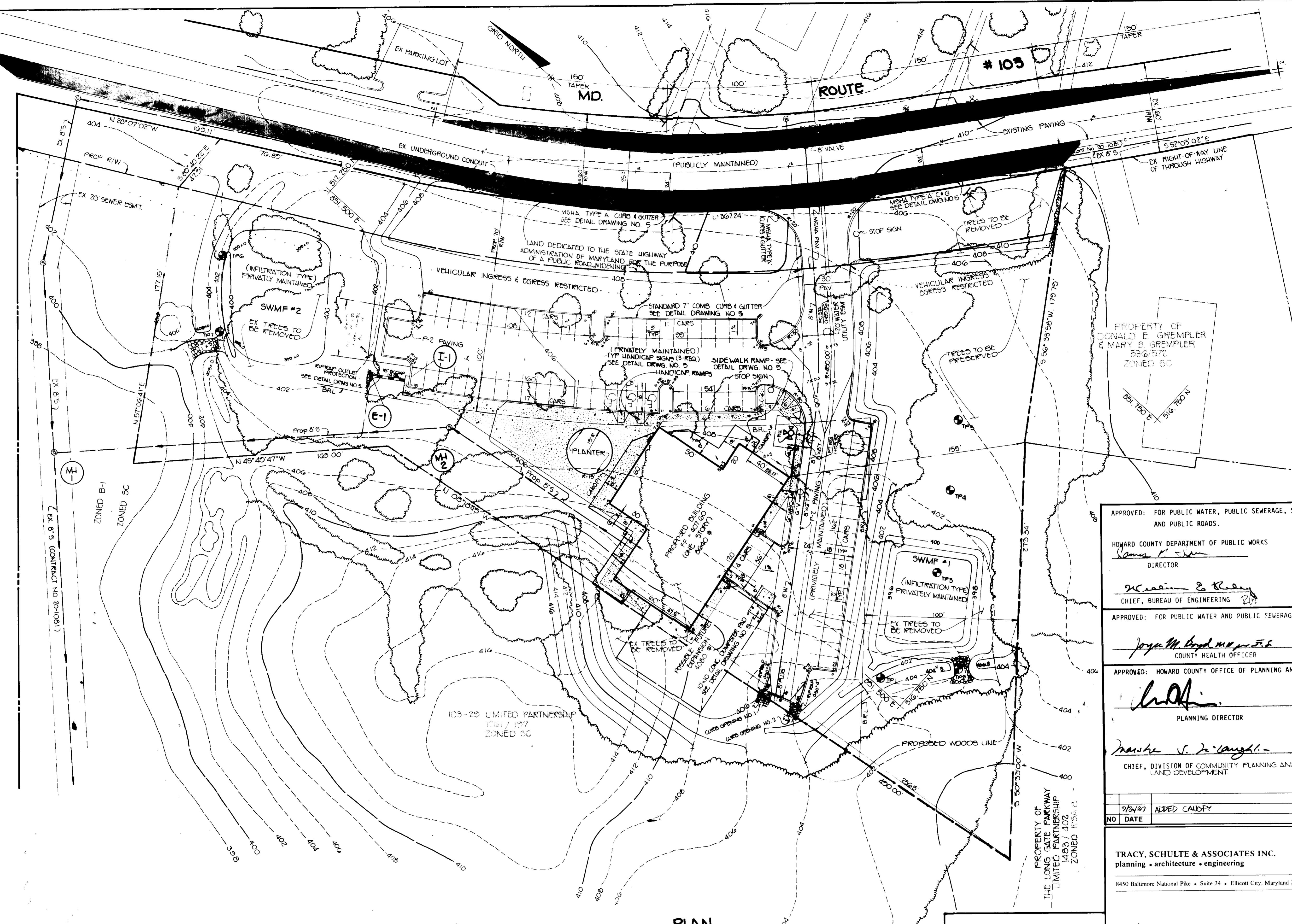






STATE OF MARYLAND  
MILITARY DEPT  
200/271, 247/152



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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James R. ...* 8/15/88  
DIRECTOR DATE

*William E. Kelly* 8-15-88  
CHIEF, BUREAU OF ENGINEERING DATE

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

*Joseph M. Boyd M.D. M.P.H.* 8-19-88  
COUNTY HEALTH OFFICER DATE

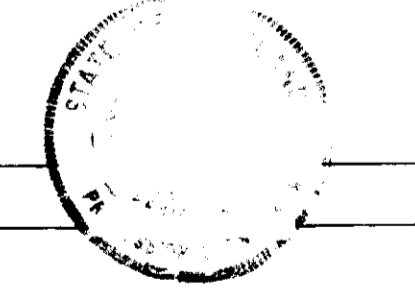
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*John A. ...* 9.2.88  
PLANNING DIRECTOR DATE

*Marsha J. ...* 8-29-88  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

NO	DATE	REVISION
2/24/87	ALDED CAUSFY	

TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering  
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105



*James K. Tracy*

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 5-15-87

NOTE:  
THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 18.122A OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WASTE PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.

PLAN  
SCALE: 1" = 30'

OWNER		PROJECT	
103-20 LIMITED PARTNERSHIP P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043		WHEATFIELDS CENTER PHASE I	
DEVELOPER		LOCATION TAX MAP 105 24 PARCEL 676 2 <sup>ND</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MD 21043		TITLE SITE DEVELOPMENT PLAN	
DES. JKT/JRS	DRN: KMN/CDT	DATE: JANUARY 1, 1987 MAY 3, 1988	PROJECT NO. 8611 SDP
		SCALE: AS SHOWN	DRAWING 2 OF 8

SEQUENCE OF CONSTRUCTION

- DAY 1 1. OBTAIN GRADING PERMIT.
- DAY 2-3 2. CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
- DAY 3-7 3. CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.
- DAY 7-21 4. INSTALL S.W.M.F./SEDIMENT TRAPS 1 AND 2 AS FOLLOWS:
  - A. S.W.M.F. #1 TO BE CONSTRUCTED INITIALLY WITH A BOTTOM ELEVATION OF 400.0 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER TEMPORARY SEEDING NOTES.
  - B. S.W.M.F. #2 TO BE CONSTRUCTED INITIALLY WITH A BOTTOM ELEVATION OF 400.2 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER TEMPORARY SEEDING NOTES.
- DAY 21-25 5. INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 25-30 6. CLEAR AND GRUB REMAINDER OF SITE.
- DAY 30-50 7. GRADE SITE.
- DAY 50-53 8. STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 53-57 9. STABILIZE ALL OTHER AREAS IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- 10. UPON COMPLETION OF ALL STABILIZATION, CLEAN TRAPS 1 AND 2 TO ELEVATION 400.0 AND 400.2, RESPECTIVELY, AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES IN PREPARATION FOR FUTURE SITE CONSTRUCTION ACTIVITY.

**PERMANENT SEEDING PREPARATION**

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN VIEW OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 10%/1000 SO F3) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 10%/1000 SO F3) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-30-0 UREAFORM FERTILIZER (9 10%/1000 SO F3)

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 10%/1000 SO F3) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (14 10%/1000 SO F3) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS PER ACRE (1.4 10%/1000 SO F3) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE 1-08 10%/1000 SO F3 OF KEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 10%/1000 SO F3) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 25 GALLONS PER ACRE (5 10%/1000 SO F3) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 10%/1000 SO F3) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING PREPARATION**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

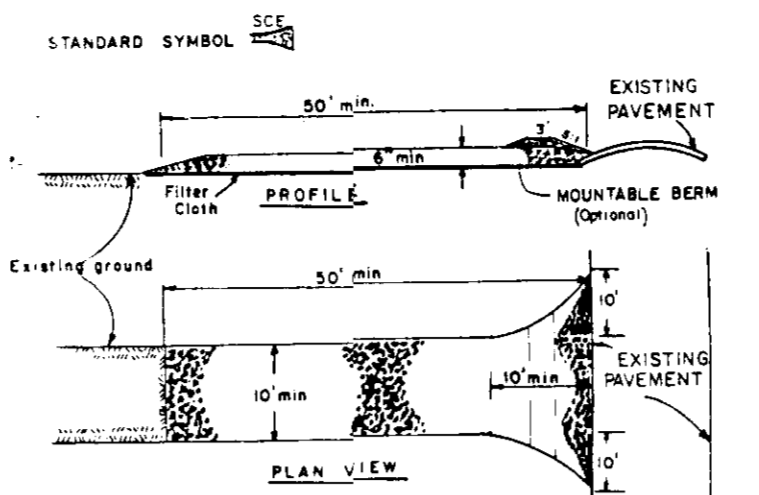
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 10%/1000 SO F3)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (13.2 10%/1000 SO F3). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING LOVEGRASS (1.07 10%/1000 SO F3). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

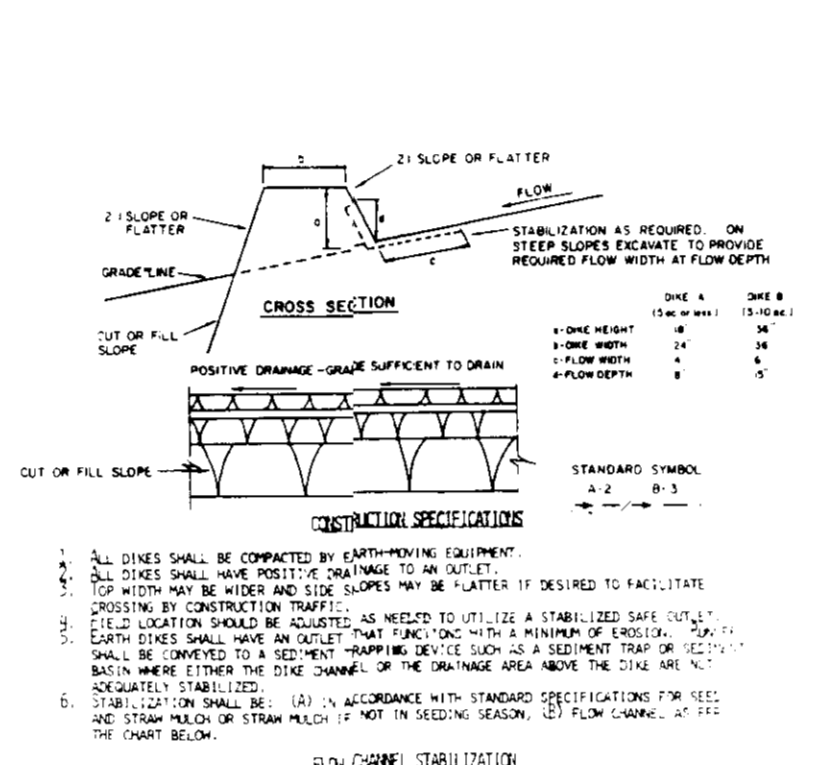
MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 10%/1000 SO F3) OF UNROTATED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 25 GALLONS PER ACRE (5 10%/1000 SO F3) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 10%/1000 SO F3) FOR ANCHORING.

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



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or retained or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet, measured on a single line. Gate use where a 20 foot minimum length would apply.
  - Thickness - 8" or less than six (6) inches.
  - Width - The 100 foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone.
  - Surface Water - All surface water flowing or directed toward construction entrance shall be piped across the entrance. If piping is impracticable, a portable berm with 1/2" aggregate will be provided.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of aggregate under public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any materials used to trap sediment. All sediment applied, spilled, washed or tracked onto public right-of-way must be removed immediately.
  - Warning - Stone shall be cleaned to remove sediment prior to entrance into public right-of-way. When warning is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

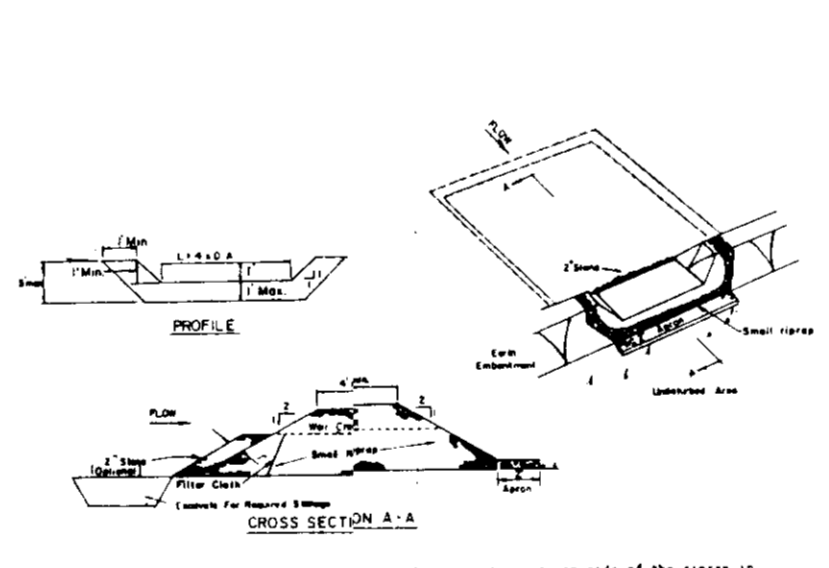
**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



**FLOW CHARACTERIZATION**

TYPE OF FLOW	Q <sub>100</sub>	Q <sub>50</sub>	Q <sub>10</sub>	V <sub>100</sub>	V <sub>50</sub>	V <sub>10</sub>
1	1.1-2.2	0.6-1.2	0.2-0.4	0.25-0.5	0.15-0.3	0.08-0.15
2	3.1-5.0	1.6-2.5	0.5-0.8	0.4-0.6	0.25-0.4	0.12-0.2
3	5.1-10.0	2.6-5.0	0.8-1.5	0.6-1.2	0.35-0.7	0.18-0.35

**EARTH DIKE**  
NO SCALE



- CONSTRUCTION SPECIFICATIONS FOR EARTH DIKE**
- Area under construction shall be cleared of brush and removed of any vegetation and rock material. The soil area shall be cleared.
  - The fill material for the embankment shall be free of roots and other vegetation as well as any material that could cause erosion or other undesirable material. The embankment shall be compacted by conventional means while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be well sorted 1/2" to 1" with a 25% maximum of 1/4" aggregate placed on the top surface and the rest being 1/2" to 1" material placed in the center.
  - Rebar shall be provided and top rebar shall be in the original position when the structure has been constructed to the design height of the dike.
  - 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 other undesirable conditions are prevented.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

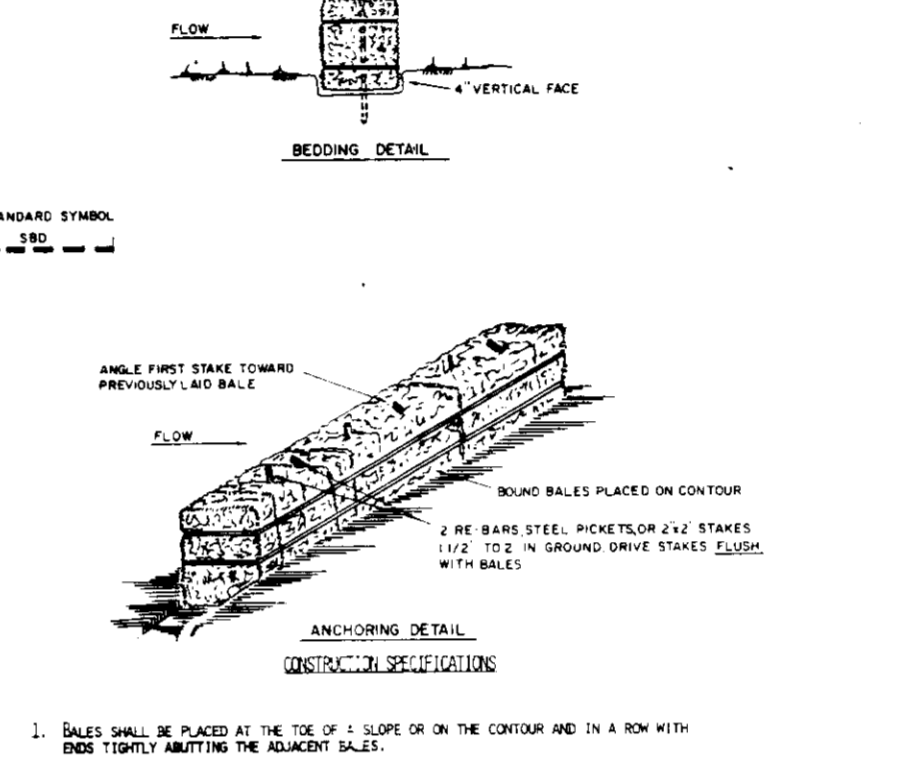
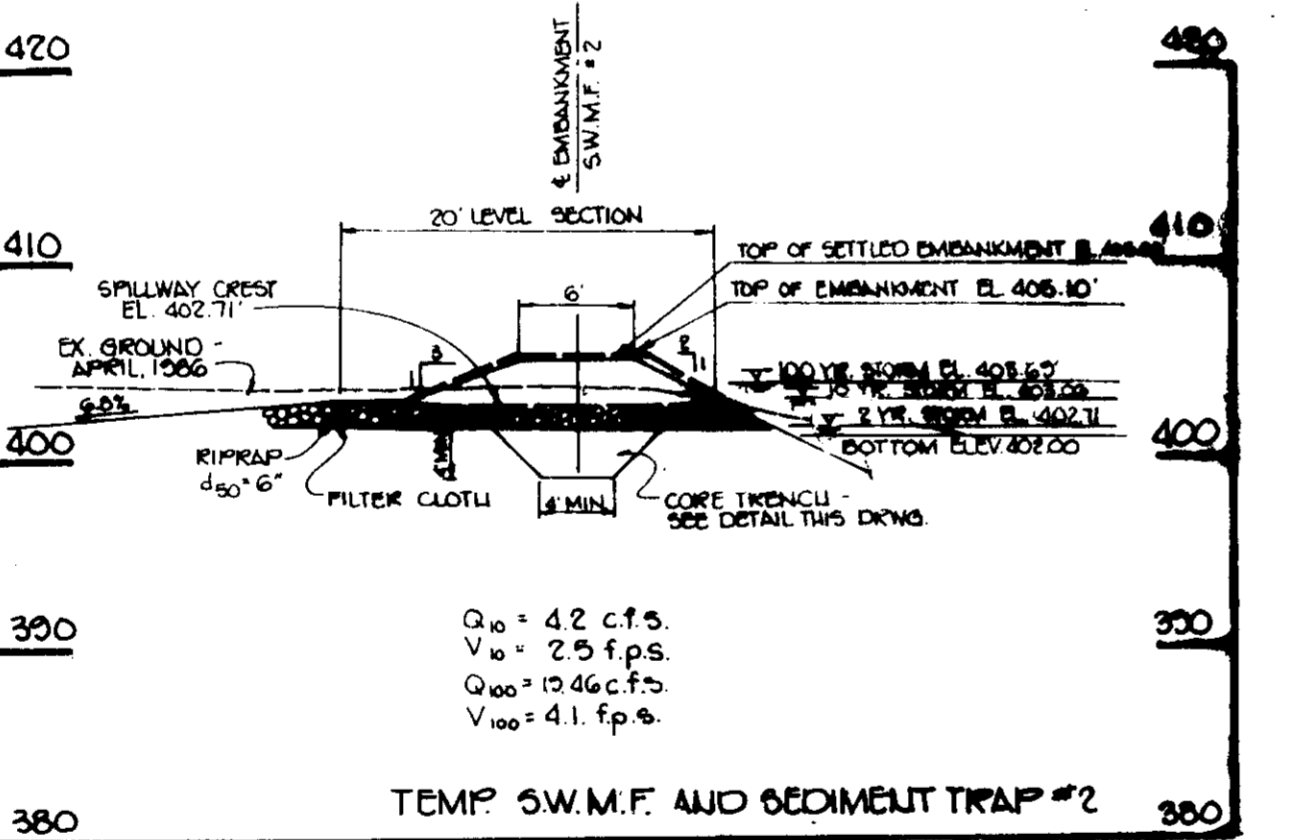
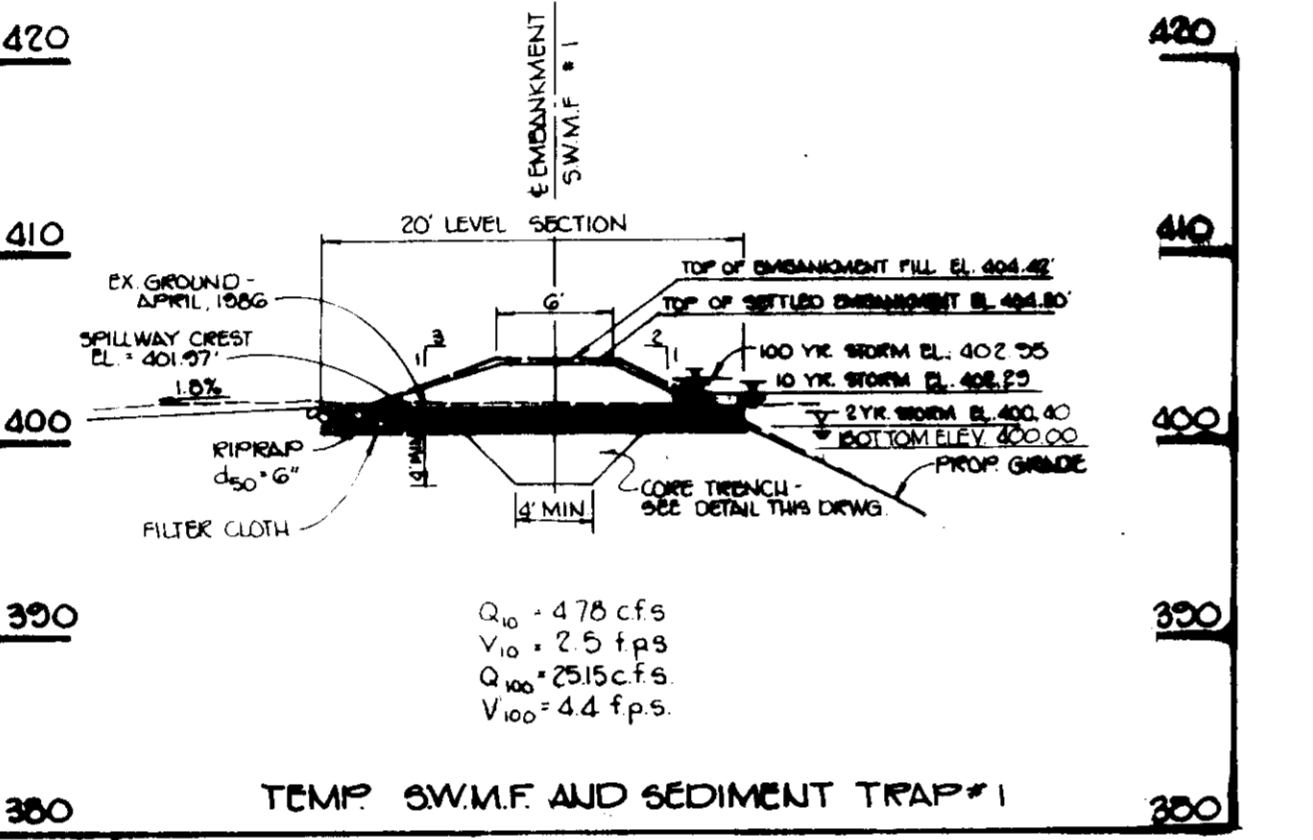
**STONE OUTLET SEDIMENT TRAP**  
NO SCALE

Maximum Drainage Area: 3 Acres

SEDIMENT TRAP NO. 1		SEDIMENT TRAP NO. 2	
DRAINAGE AREA	2.75 AC.	DRAINAGE AREA	2.03 AC.
DISTURBED AREA	1.58 AC.	DISTURBED AREA	1.59 AC.
STORAGE VOLUME	4,950.0 c.f.	STORAGE VOLUME	3,654.0 c.f.
REQUIRED	6,476 c.f.	REQUIRED	8,208 c.f.
PROVIDED	4,019.7	PROVIDED	4,027.1
CREST ELEVATION	400.00	CREST ELEVATION	402.00
BOTTOM ELEVATION	400.00	BOTTOM ELEVATION	402.36
CLEANOUT ELEVATION	400.00	CLEANOUT ELEVATION	402.36
WEIR LENGTH	110	WEIR LENGTH	80'
TRAP DIMENSIONS	80' x 100' x 20'	TRAP DIMENSIONS	95' x 100' x 21'

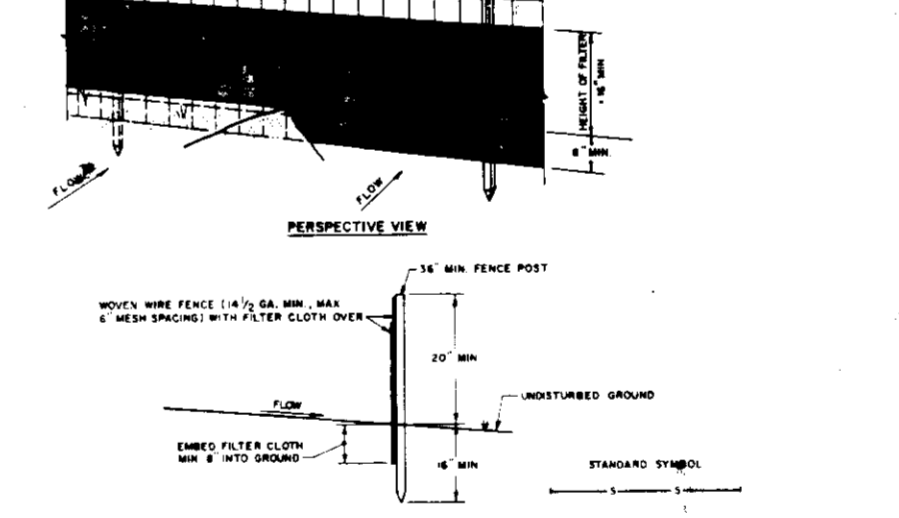
**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE TO INSURE AND PERMIT PRIOR TO THE START OF ANY CONSTRUCTION OPERATIONS.
- ALL NEGATIVE AND POSITIVE PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 60 CALENDAR DAYS FOR ALL DISTURBED AREAS.
- ALL SEDIMENT TRAPS/BASINS SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE MARYLAND STATE ENGINEERING PROFESSIONAL BOARD REGULATIONS.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 60 CALENDAR DAYS FOR ALL DISTURBED AREAS.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE PERIOD OF CONSTRUCTION AND THROUGHOUT THE PERIOD OF TEMPORARY STABILIZATION. PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS FOR ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 60 CALENDAR DAYS FOR ALL DISTURBED AREAS.
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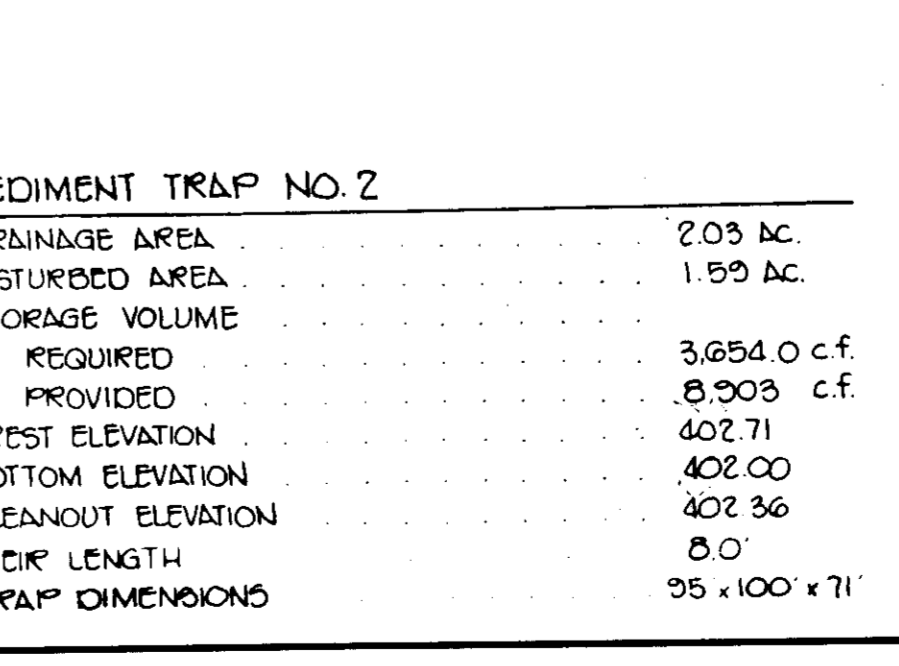
- CONSTRUCTION SPECIFICATIONS**
- BALES SHALL BE PLACED AS THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
  - BALES SHALL BE PLACED ON THE SITE, A MINIMUM OF 60 INCHES, AND PLACED SO THE BARRIERS ARE HORIZONTAL.
  - BALES SHALL BE SECURED TO PLACE BY EITHER TWO STAPLES OR NAILS DRIVEN THROUGH THE BALES. THE FIRST STAPLE OR NAIL SHALL BE DRIVEN THROUGH THE BALES AT AN ANGLE TO FORCE THE BALES TOGETHER. STAPLES SHALL BE DRIVEN THROUGH THE BALES.
  - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROPERLY AS NEEDED.
  - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS AS SO NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

**STRAW BALE DIKE**  
NO SCALE



- CONSTRUCTION NOTES FOR STABILIZED CONSTRUCTION ENTRANCE**
- REMOVE WEIR FENCE TO BE INSTALLED (REQUIRED) TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOODEN WEIR FENCE WITH TIES (SHALL) PLACED AT TOP AND MID SECTION.
  - WHEN THE SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLYED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN NECESSARY TO DEVELOP THE STIFF FENCE.

**SILT FENCE**  
NO SCALE



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Michael L. Fe*  
CHIEF, LAND DEVELOPMENT DIVISION  
DATE: 2-8-88

*James R. Moxley Jr.*  
DIRECTOR  
CHIEF, BUREAU OF ENGINEERING  
DATE: 2-8-88

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."

*James R. Moxley Jr.*  
ENGINEER: JAMES R. MOXLEY, P.E.  
DATE: 2/8/88

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."

*James R. Moxley Jr.*  
DEVELOPER: JAMES R. MOXLEY, JR.  
SECURITY DEVELOPMENT CORPORATION - PRESIDENT  
DATE: 9-23-87

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

*James R. Moxley Jr.*  
U.S. SOIL CONSERVATION SERVICE  
DATE: 2-3-88

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

APPROVED: *Stephen L. Helm*  
HOWARD S.C.D.  
DATE: 2/3/88

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER	PROJECT
103-29 LIMITED PARTNERSHIP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	<b>WHEATFIELDS CENTER</b> PHASE I 50P-87195
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	TAX MAP NO 24 2 <sup>ND</sup> ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	DATE
<b>SEDIMENT CONTROL NOTES AND DETAILS</b>	2-17-87 1-27-88
DES	DRN
5JB	KMN/JCA
SCALE	DRAWING
NO SCALE	2 OF 2

**DRAINAGE AREA SCHEDULE**

INLET NO.	ACRES	C-FACTOR	%IMPERVIOUS	ZONING
I-1	0.868	0.72	68.0	SC
CURB OPENING NO.1	0.212	0.72	68.0	SC
CURB OPENING NO.2	0.361	0.72	68.0	SC

**STRUCTURE SCHEDULE**

INLET NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	A-5	SEE PLAN	—	402.00	405.33*	HC STD 5D.40I
CURB OPENING NO.1	2' CURB OPENING	SEE PLAN	—	—	TC 40G.4G	
CURB OPENING NO.2	2' CURB OPENING	SEE PLAN	—	—	TC 40G.4G	
E-1	E.5	SEE PLAN	—	401.84	—	HC STD 5D.5G1

\* ELEVATION AT THROAT OPENING.  
 \*\* NOTE: ALL STORM DRAIN BEDDING IS CLASS C.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James P. ...* 8/15/88  
 DIRECTOR DATE  
*William B. ...* 8-15-88  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*Joyce M. Boyd Mc ...* 8-19-88  
 COUNTY HEALTH OFFICER DATE

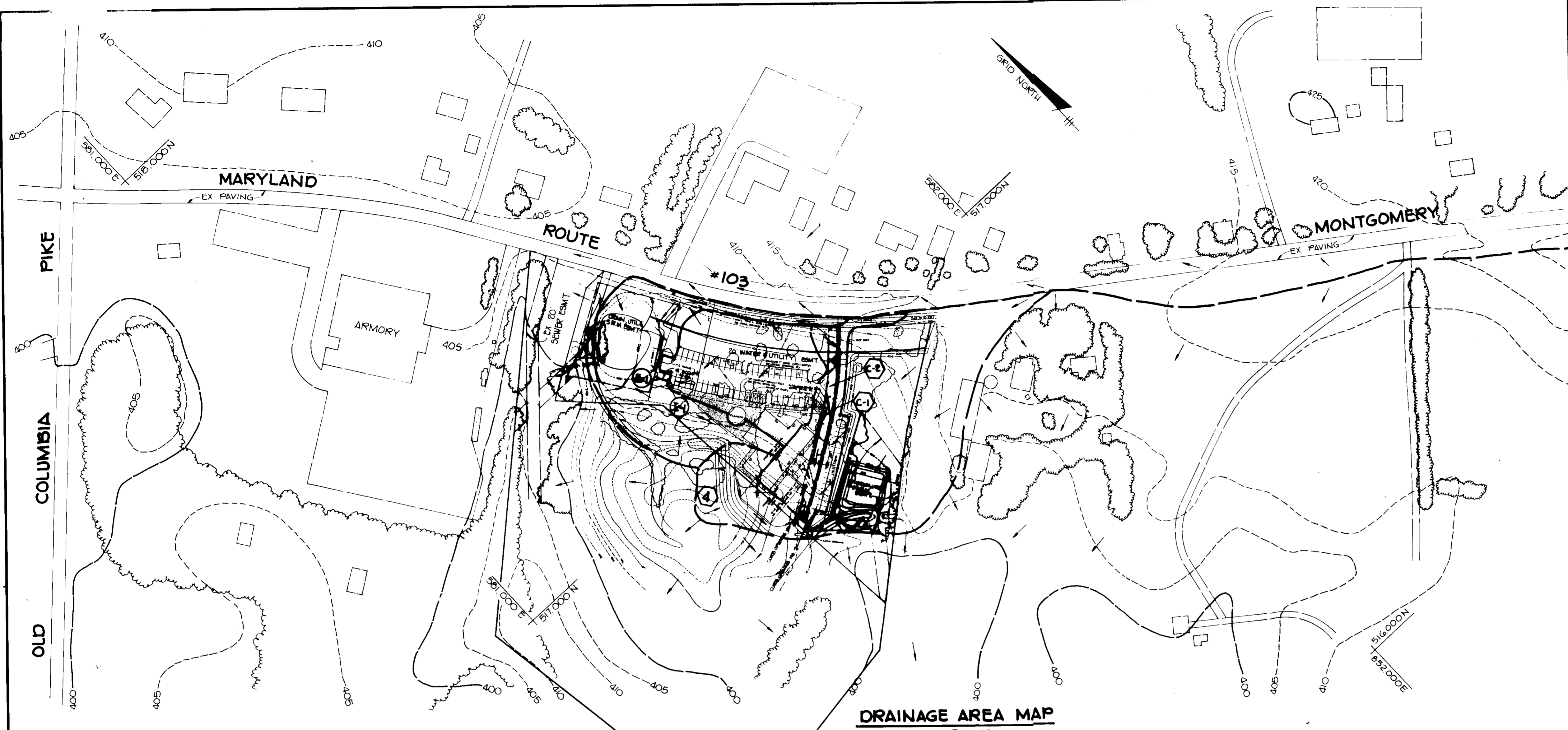
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*...* 9.2.88  
 PLANNING DIRECTOR DATE  
*Frank S. ...* 8-25-88  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

NO.	DATE	REVISION

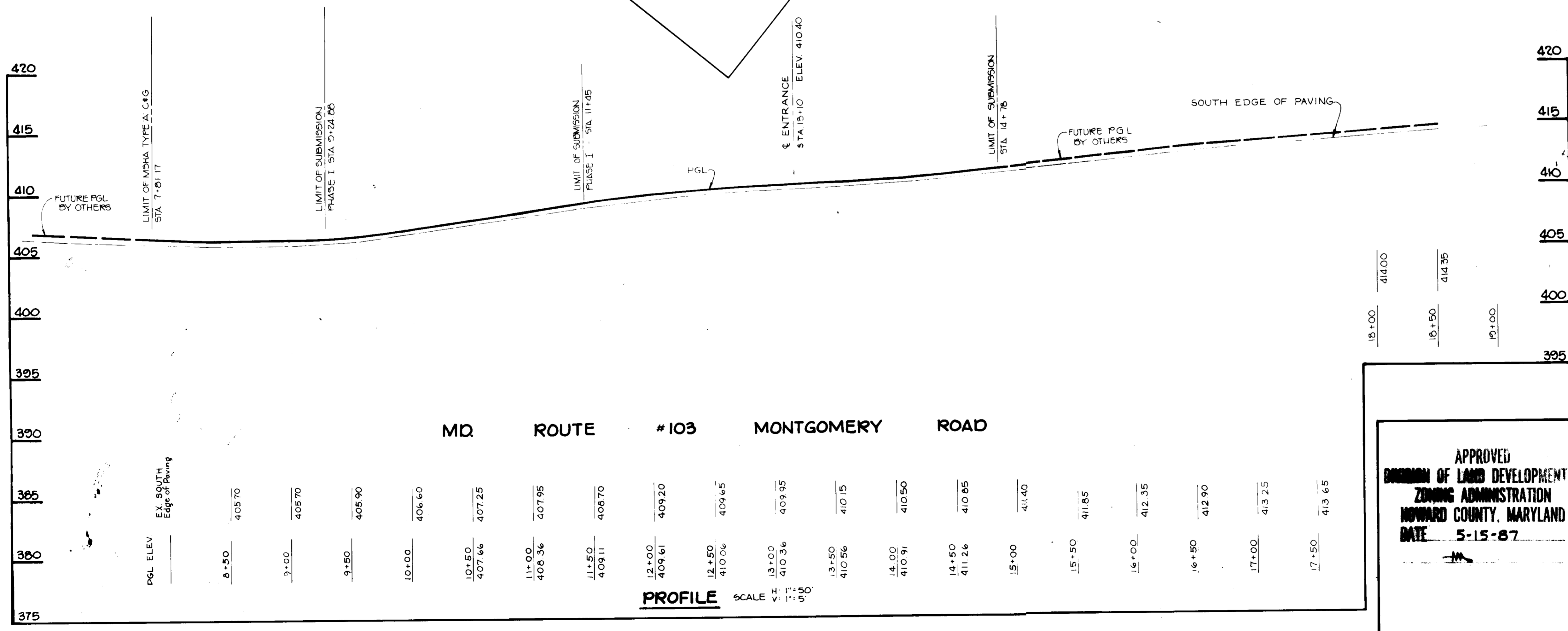
**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105  
*James K. Tracy*

OWNER: 103-29 LIMITED PARTNERSHIP, P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043  
 PROJECT: **WHEATFIELDS CENTER** PHASE I  
 LOCATION: TAX MAP NOS 24 PARCEL 676, 2ND ELECTION DISTRICT, HOWARD COUNTY MARYLAND  
 DEVELOPER: SECURITY DEVELOPMENT CORP., P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043  
 TITLE: **DRAINAGE AREA MAP AND PROFILE OF MD. ROUTE #103**  
 DATE: JANUARY 1, 1987 / MAY 3, 1988 PROJECT NO: 8611 SDP  
 DES: RJW DRN: KMN SCALE: AS SHOWN DRAWING: 3 OF 8  
 SOP 87-135

APPROVED  
 BOARD OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 5-15-87

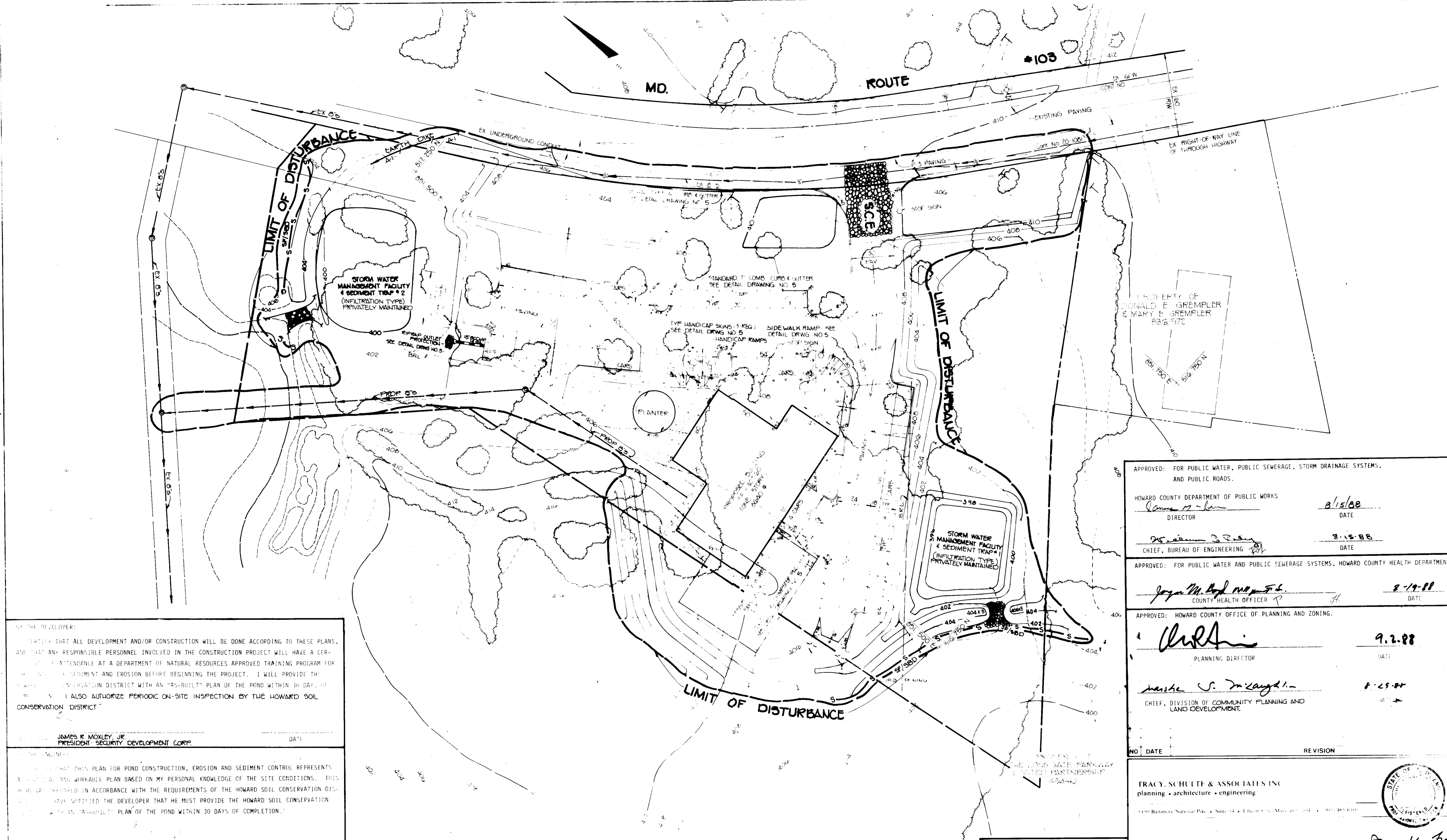


**DRAINAGE AREA MAP**  
 SCALE 1"=100'



**PROFILE** SCALE 1"=10' V, 1"=50' H

STATION	PGL ELEV	EX. SOUTH Edge of Paving	MD. ROUTE #103	MONTGOMERY ROAD
8+50	405.70	405.70	409.20	414.00
9+00	405.70	405.70	409.61	414.35
9+50	405.90	405.90	409.65	414.75
10+00	406.60	406.60	409.95	415.00
10+50	407.25	407.25	410.06	415.50
11+00	407.95	407.95	410.36	416.00
11+50	408.70	408.70	410.56	416+50
12+00	409.20	409.20	410.91	417+00
12+50	409.61	409.61	411.26	417+50
13+00	409.65	409.65	411.40	418.00
13+50	409.95	409.95	411.85	418.35
14+00	410.15	410.15	412.35	418.90
14+50	410.50	410.50	412.90	419.25
15+00	410.85	410.85	413.25	419.65
15+50	411.26	411.26	413.65	419.95
16+00	411.40	411.40	414.00	420.00
16+50	411.85	411.85	414.35	420.00
17+00	412.35	412.35	414.75	420.00
17+50	412.90	412.90	415.00	420.00



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 EROSION AND SEDIMENT CONTROL 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.

JAMES K. MOXLEY, JR. PRESIDENT SECURITY DEVELOPMENT CORP. DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A FEASIBLE 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 ADVISED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

JAMES K. TRACY P.E. # 9566 DATE

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

HOWARD S.C.D. DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
James M. ... 8/15/88  
 DIRECTOR DATE

... 8-15-88  
 CHIEF, BUREAU OF ENGINEERING DATE

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

Joyce M. ... 8-19-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

... 9.2.88  
 PLANNING DIRECTOR DATE

... 8-25-88  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.

NO. DATE REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
 planning • architecture • engineering

4250 Baltimore National Pike • Suite 14 • Ellicott City, Maryland 21043 • 301-461-6100

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 JAMES K. TRACY  
 No. 10000

OWNER  
 103-29 LIMITED PARTNERSHIP  
 P.O. BOX 417  
 ELLICOTT CITY, MD 21043

DEVELOPER  
 SECURITY DEVELOPMENT CORP  
 P.O. BOX 417  
 ELLICOTT CITY, MD 21043

PROJECT  
**WHEATFIELDS CENTER**  
 PHASE I

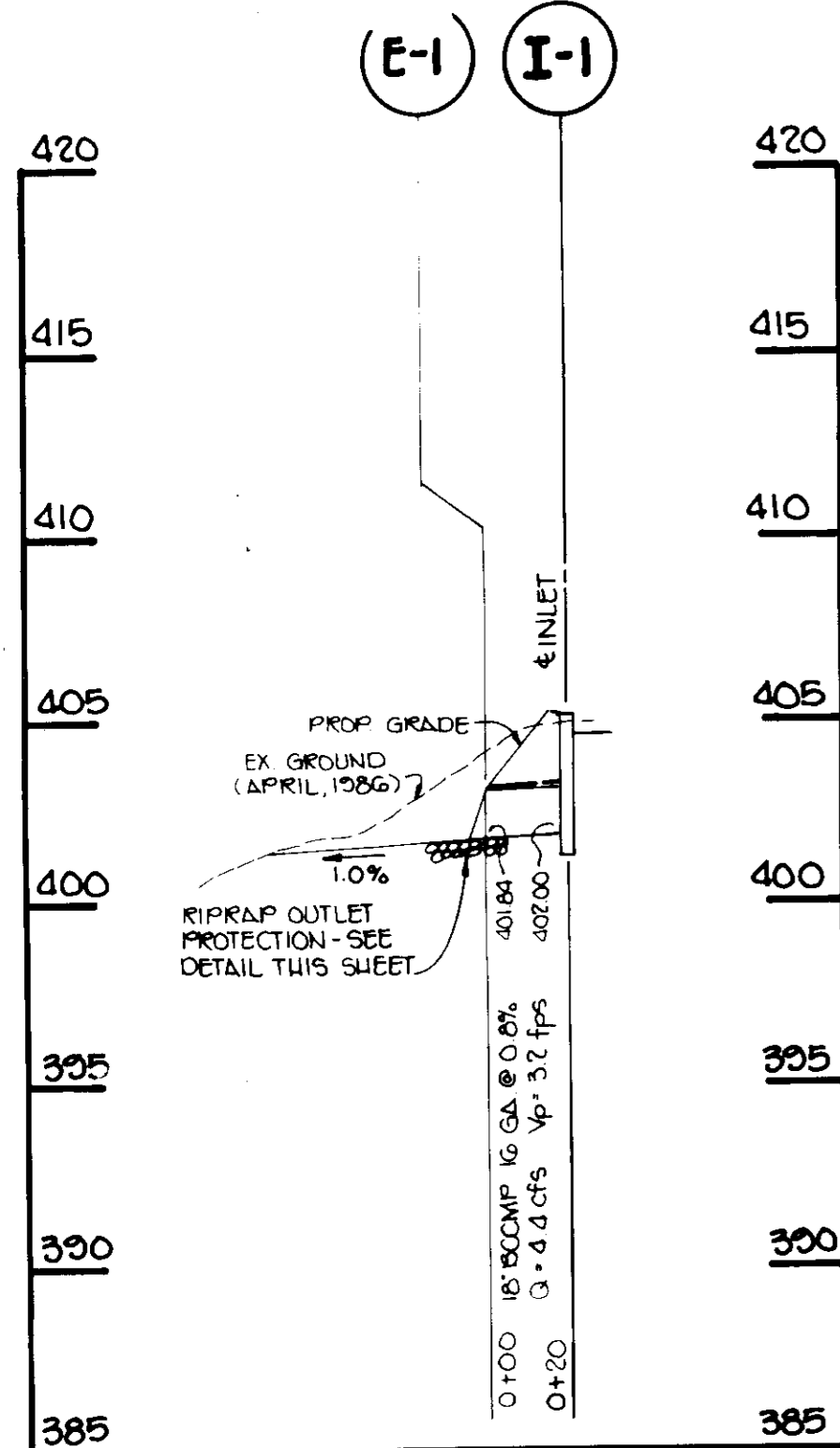
LOCATION TAX MAP NOS 24 PARCEL 676  
 2<sup>ND</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE  
**STORM WATER MANAGEMENT AND SEDIMENT CONTROL PLAN**

DATE JANUARY 1, 1987  
 MAY 3, 1988 PROJECT NO. 8000-1

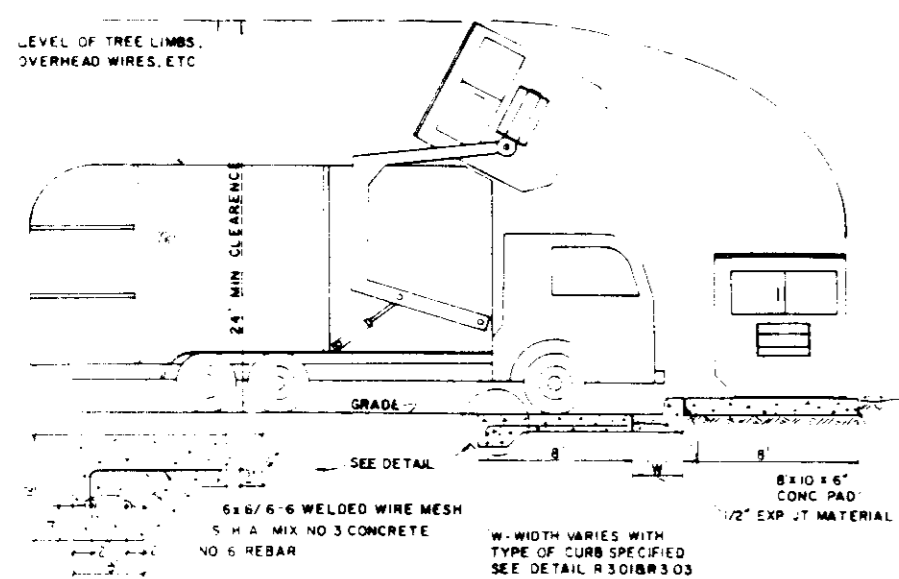
DES. JKT/JRS DRN. KMN/COT SCALE AS SHOWN DRAWING 4 OF 8

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 5-15-87



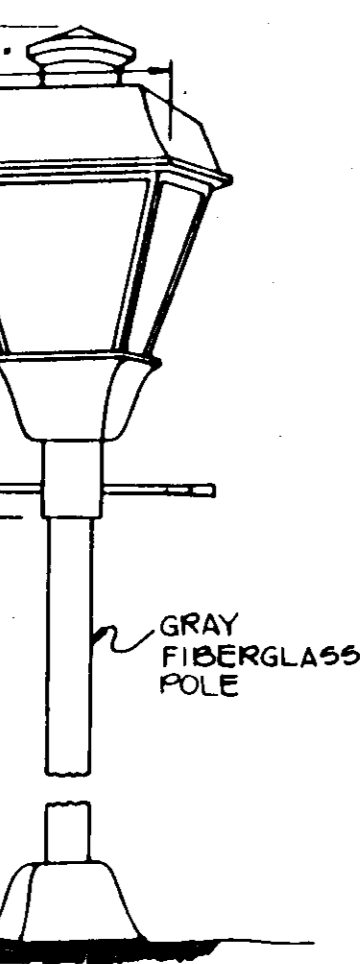
**PROFILE**

SCALE HORIZ 1" = 50'  
VERT 1" = 5'



**SOLID WASTE SERVICE PAD**

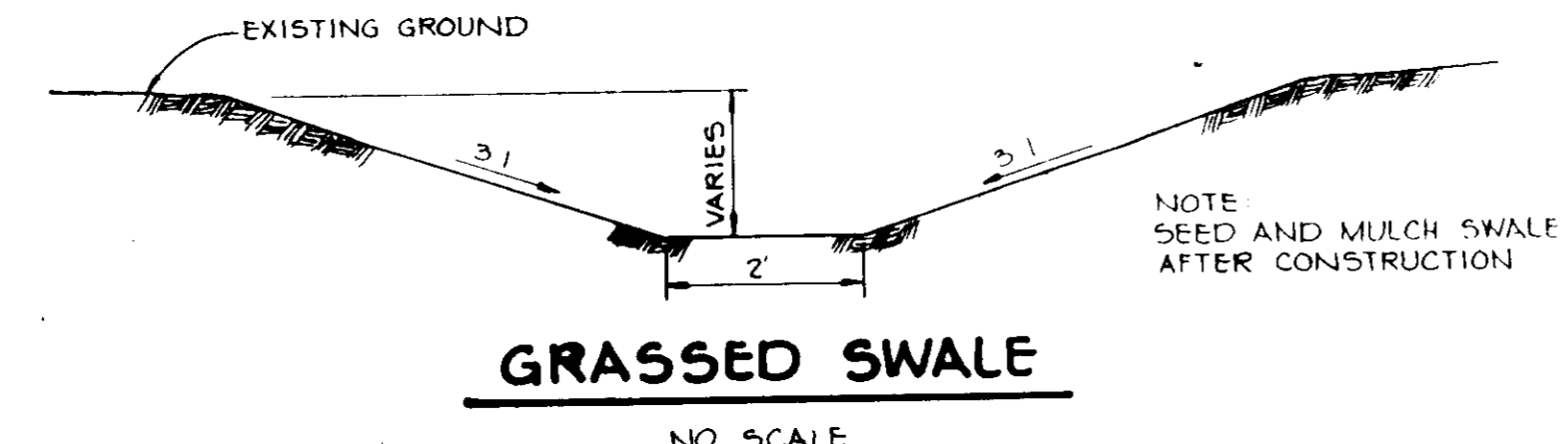
NO SCALE



NOTE: ALL STREET LIGHT FIXTURES TO BE 175 WATT MERCURY TYPE WITH A MINIMUM OF 7700 LUMENS 14" HIGH WITH GRAY FIBERGLASS POLE AND DIRECTED DOWNWARD. LOCATIONS OF STREET LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THUS

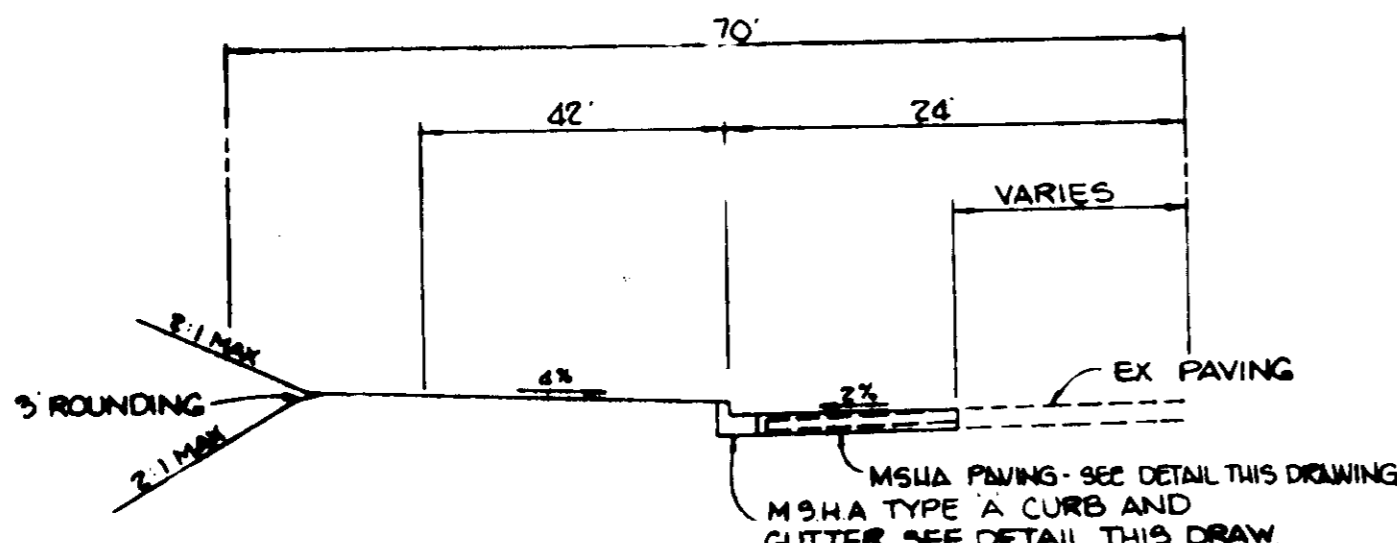
**DETAIL - LIGHTING FIXTURE**

No Scale



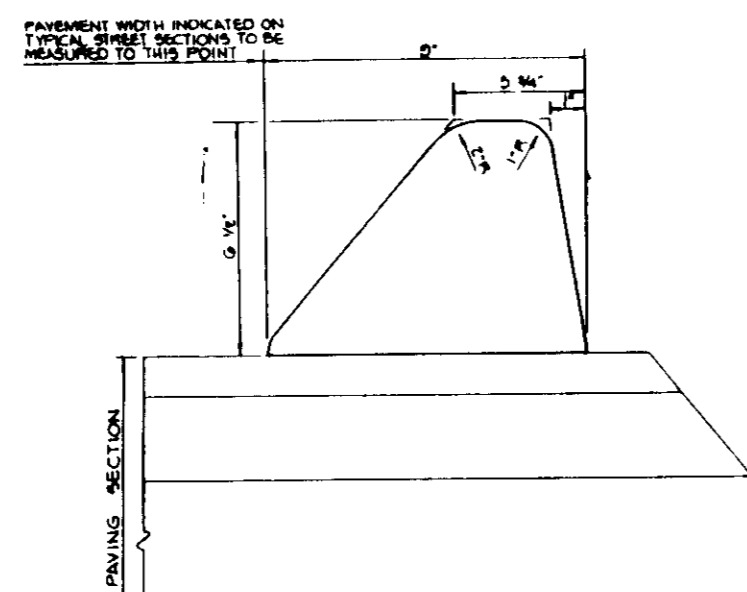
**GRASSED SWALE**

NO SCALE



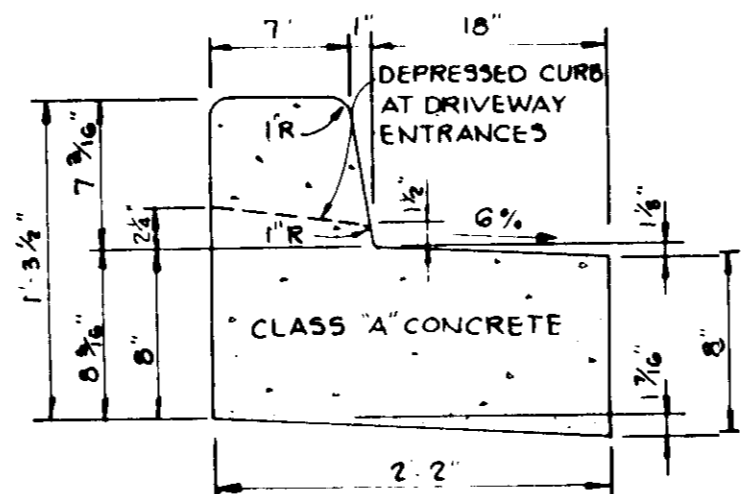
**TYPICAL SECTION**

NO SCALE

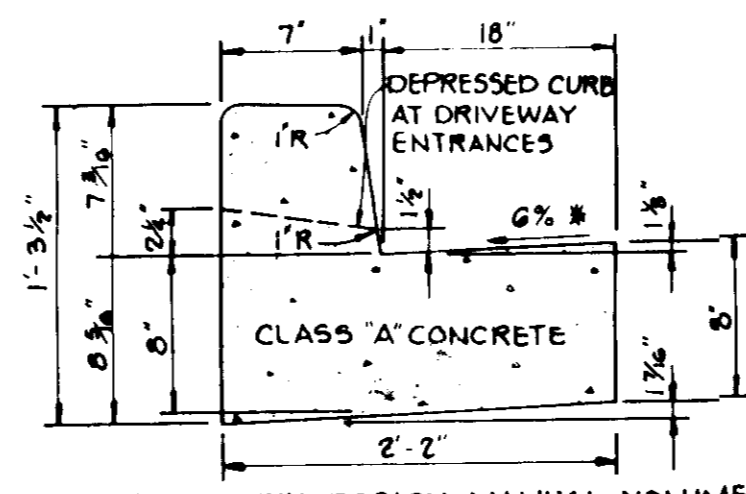


**STANDARD BITUMINOUS CURB DETAIL**

NO SCALE

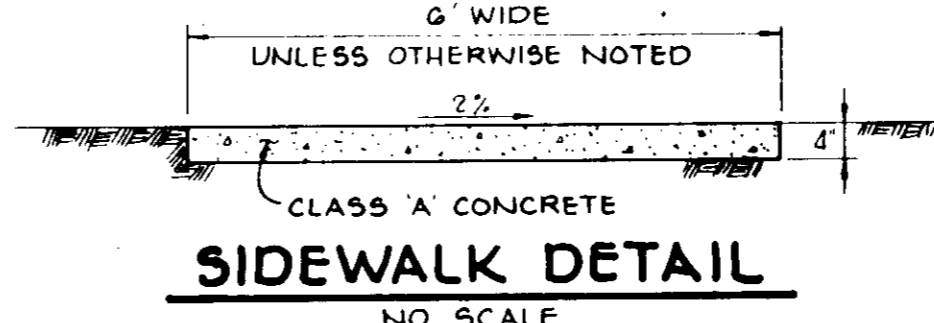


**REVERSE**



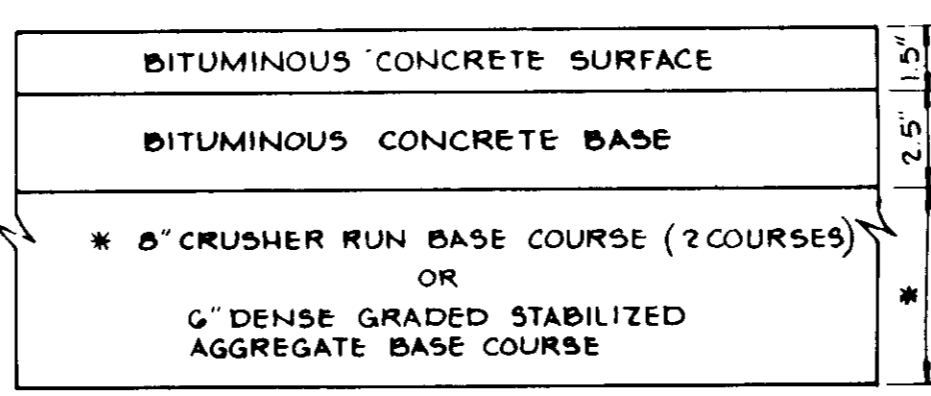
**STANDARD 7" COMBINATION CURB AND GUTTER**

HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-301)  
\* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

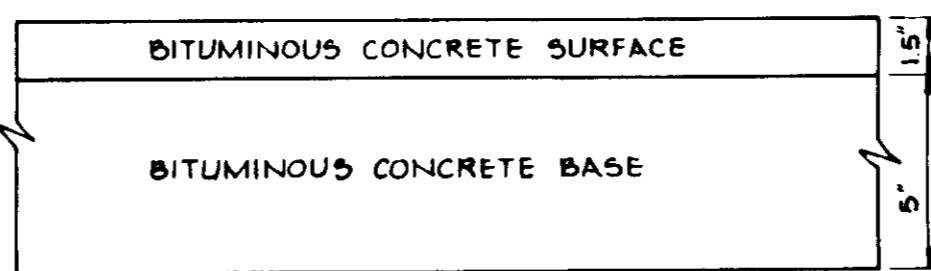


**SIDEWALK DETAIL**

NO SCALE



**(ALTERNATE)**

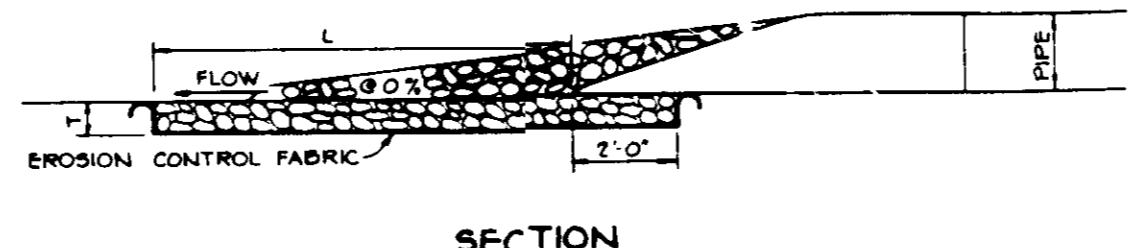


HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-701)

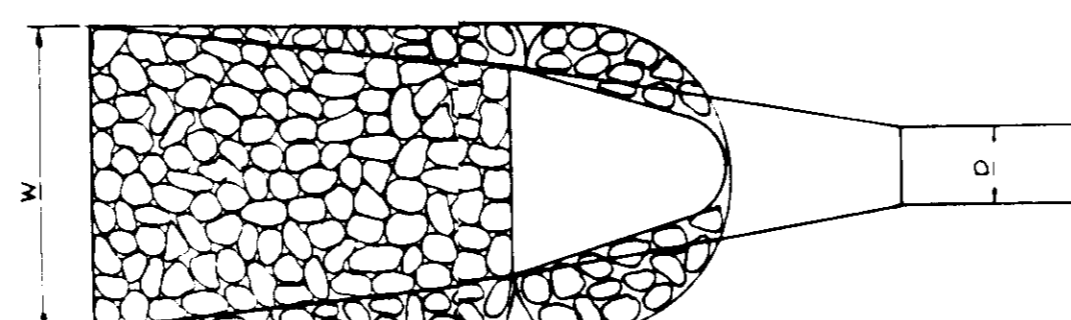
**6 1/2" PAVING, P-2**

NO SCALE

PRIVATE PARKING AREAS AND DRIVEWAYS



**SECTION**

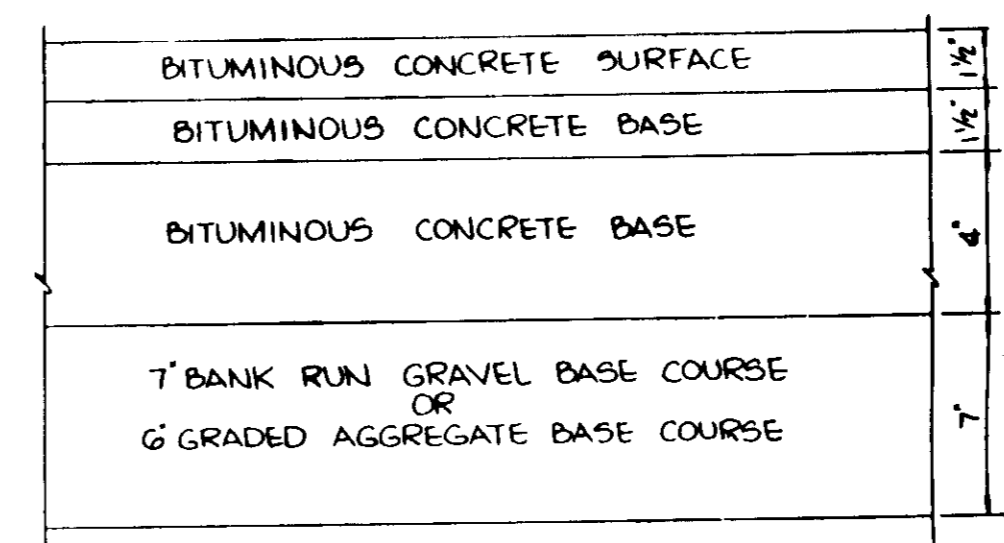


**PLAN**

STRUCTURE	d	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	4"	40'	31'	2"

**OUTLET PROTECTION DETAIL**

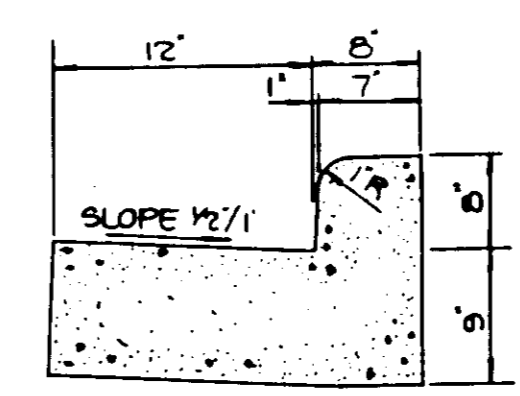
NO SCALE



**M.S.H.A. PAVING**

NO SCALE

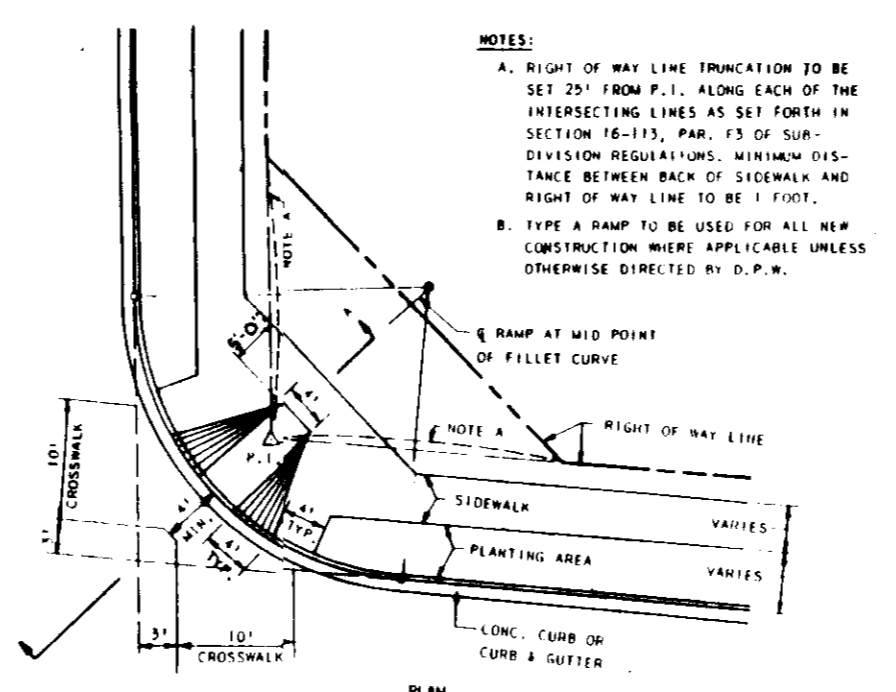
(MD. ROUTE 103)



**MARYLAND ROUTE #103**

**M.S.H.A. TYPE 'A' CURB AND GUTTER**

NO SCALE



**SIDEWALK RAMP**

NO SCALE

**DETAIL BUILDING ENTRANCE TEXTURAL IDENTIFICATION FOR THE BLIND**

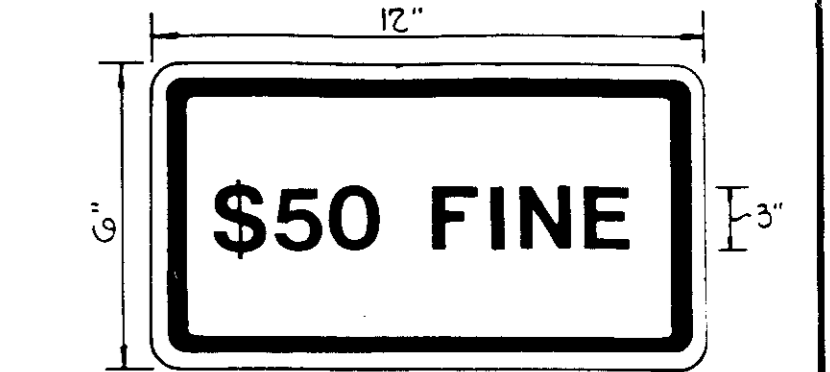
NO SCALE

NOTE: TO BE USED FOR ALL BUILDING ENTRANCES EXCEPT THOSE THAT ARE EXCLUSIVELY FIRE EXITS.



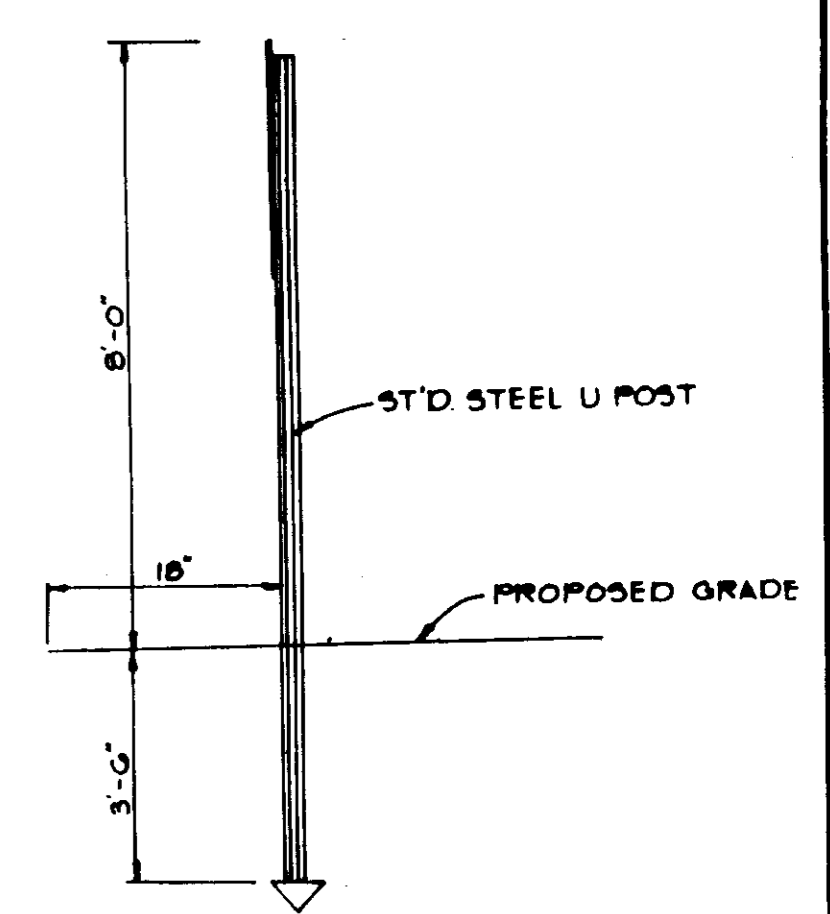
**SIGN DETAIL**

NO SCALE



**VIOLATION FINE SIGN DETAIL**

NO SCALE



**POST DETAIL**

NO SCALE

**HANDICAP SIGN DETAIL**

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

*Joyce M. Boyd, M.D., M.P.H.*  
COUNTY HEALTH OFFICER

8-19-88  
DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*James H. ...*  
DIRECTOR

8/15/88  
DATE

*...*  
CHIEF, BUREAU OF ENGINEERING

8-23-88  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

*...*  
PLANNING DIRECTOR

9.2.98  
DATE

*...*  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.

8-23-88  
DATE

NO DATE REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: 103-29 LIMITED PARTNERSHIP, P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043

PROJECT: WHEATFIELDS CENTER PHASE I

LOCATION: TAX MAP NOS 24 PARCEL 676 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DEVELOPER: SECURITY DEVELOPMENT CORP, P.O. BOX 417, ELLICOTT CITY, MARYLAND 21043

TITLE: DETAILS & PROFILE

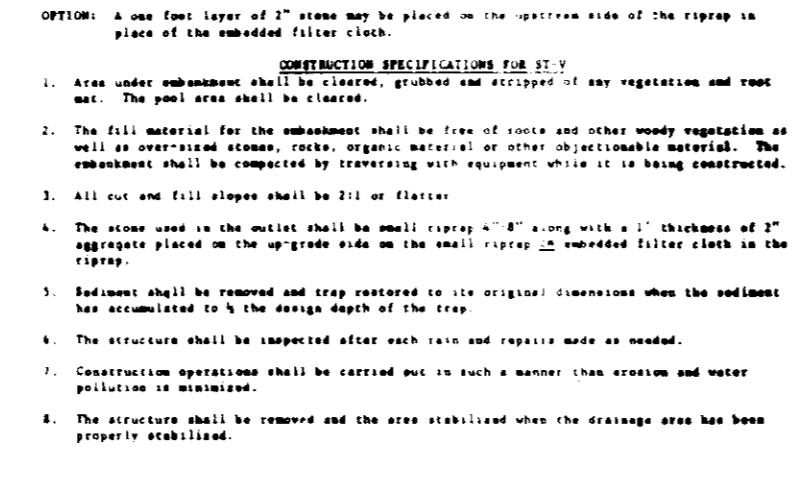
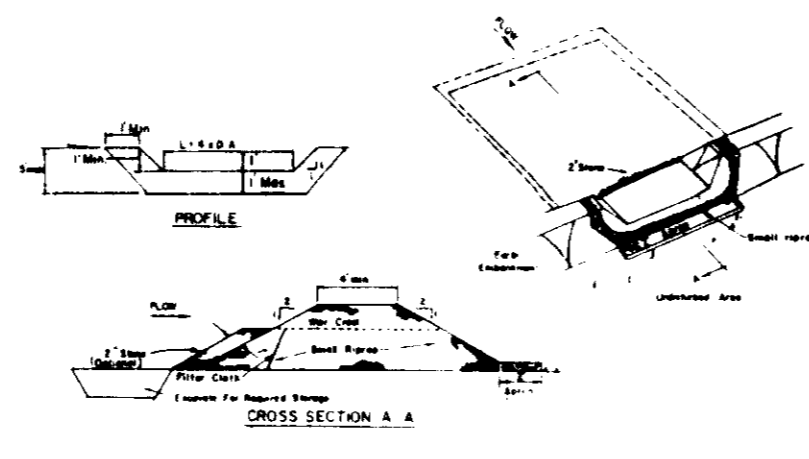
DATE: JANUARY 1987, MAY 3, 1988 PROJECT NO: 0611

DES: R.J.W. DRN: J.L.R. SCALE: 1" = 30' DRAWING: 5 OF 8

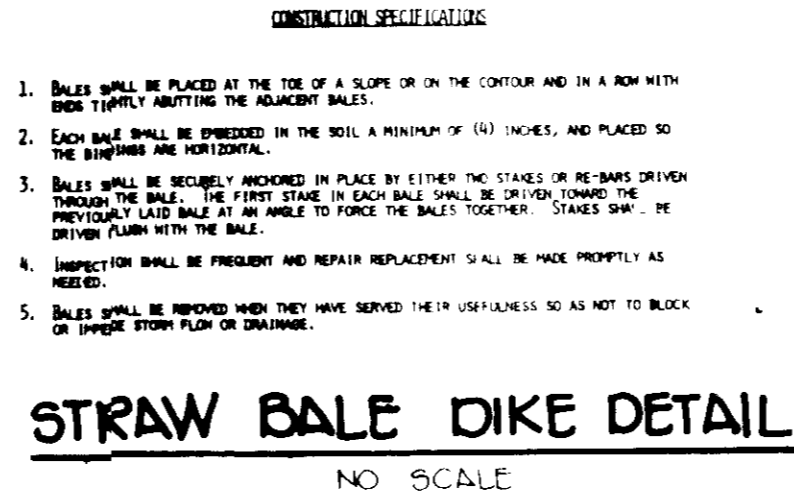
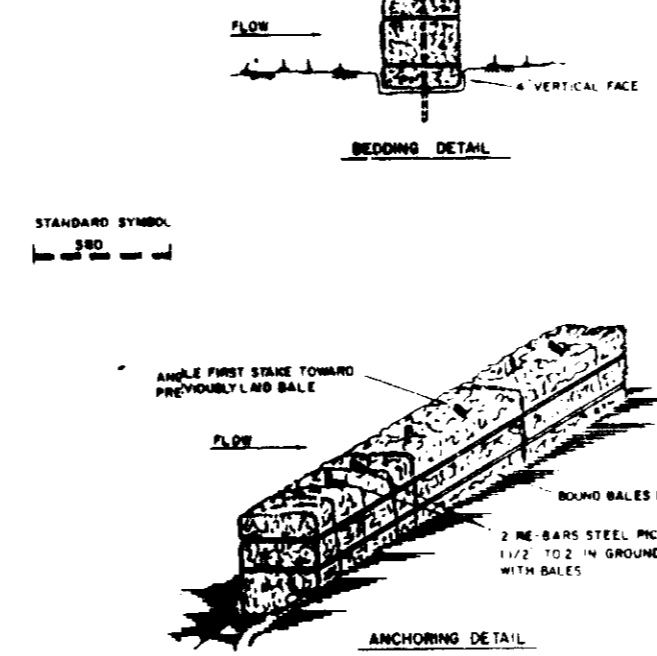
APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 5-15-87

SEQUENCE OF CONSTRUCTION

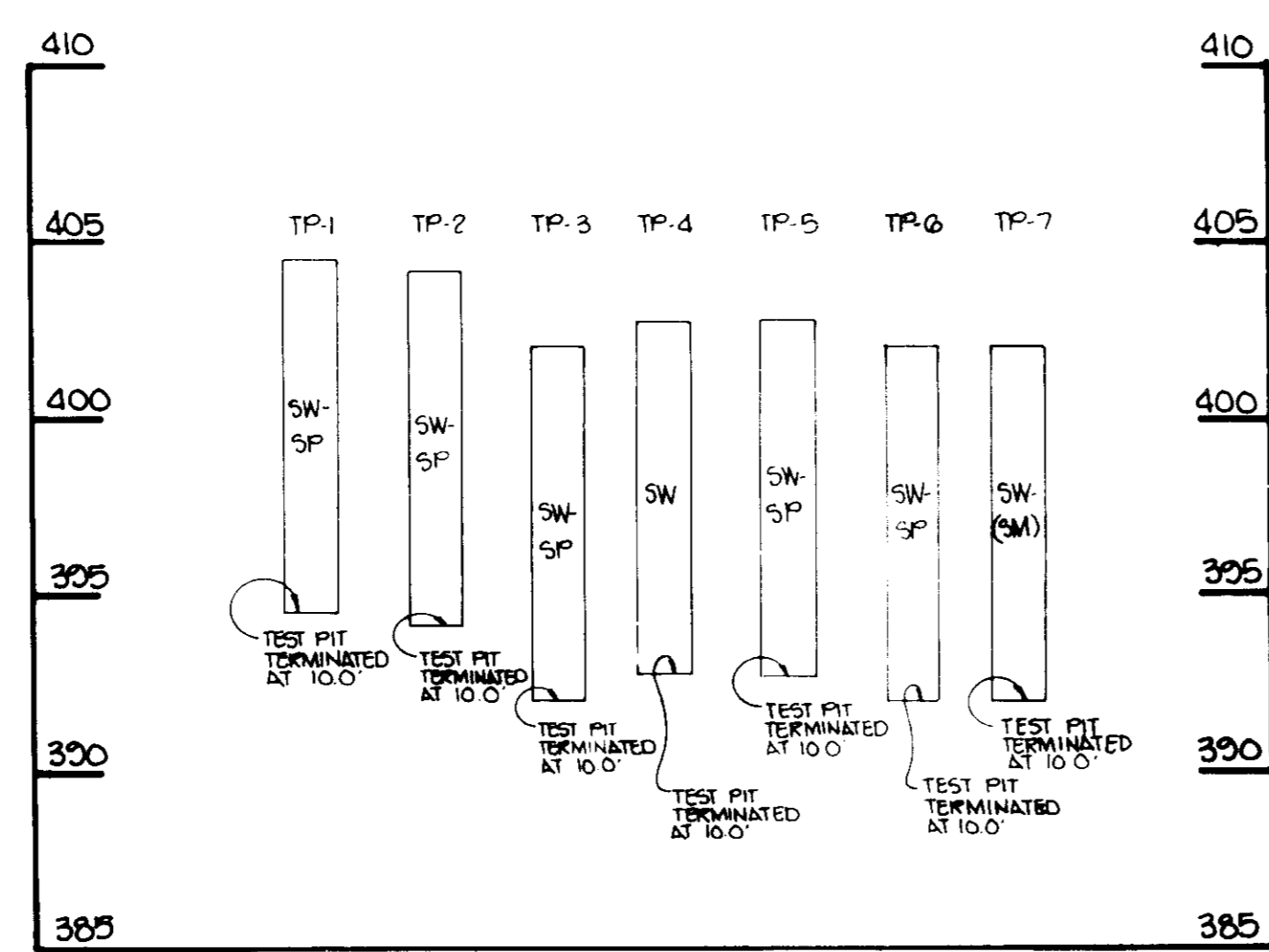
- DAY 1 1. OBTAIN GRADING PERMIT.
- DAY 2-3 2. CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
- DAY 3-7 3. CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.
- DAY 7-12 4. INSTALL SEDIMENT TRAPS NO. 1 & 2 AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 12-14 5. INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 14-38 6. INSTALL SWMF/SEDIMENT TRAPS AS FOLLOWS:
  - A. SWMF #1 TO BE CONSTRUCTED INITIALLY WITH A BOTTOM ELEVATION OF 397.0 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER TEMPORARY SEEDING NOTES.
  - B. A BOTTOM ELEVATION OF 400.0 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER TEMPORARY SEEDING NOTES.
- DAY 38-45 7. CLEAR AND GRUB REMAINDER OF SITE.
- DAY 45-60 8. GRADE SITE.
- DAY 60-96 9. INSTALL UTILITIES (WATER, SEWER, AND STORM DRAINS).
- DAY 96-99 10. STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 99-124 11. COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 124-129 12. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES AND CONVERT SEDIMENT TRAP NO. 1 AND NO. 2 TO PERMANENT STORM WATER MANAGEMENT FACILITY AS FOLLOWS:
  - A. DEWATER BASIN BY PUMPING INTO A SEDIMENT TRAP OR WELL STABILIZED VEGETATED AREA AS DIRECTED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
  - B. REMOVE SILT AND STONE FILTER AND RESTORE POND TO ORIGINAL DIMENSIONS. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
  - C. REMOVED SILT SHALL BE SPREAD ACROSS THE AREA NORTHWEST OF SWMF #2 AND SEEDED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
  - D. GRADE SWMF #1 AND SWMF #2 TO FINISHED BOTTOM ELEV. 306.00 AND 309.00 AS SHOWN ON DRAWING NO. 7 OF 9. GRADING SHALL BE DONE WITH GRADEALL TYPE MACHINE TO MINIMIZE BOTTOM COMPACTION. SEED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.



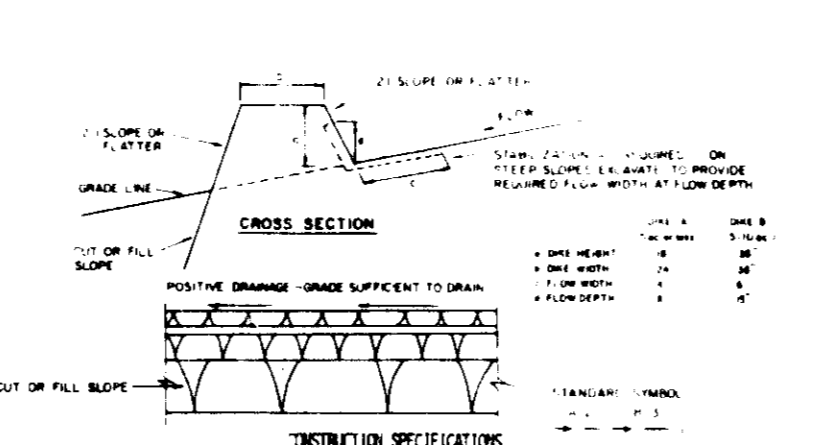
STONE OUTLET SEDIMENT TRAP DETAIL  
NO SCALE



STRAW BALE DIKE DETAIL  
NO SCALE



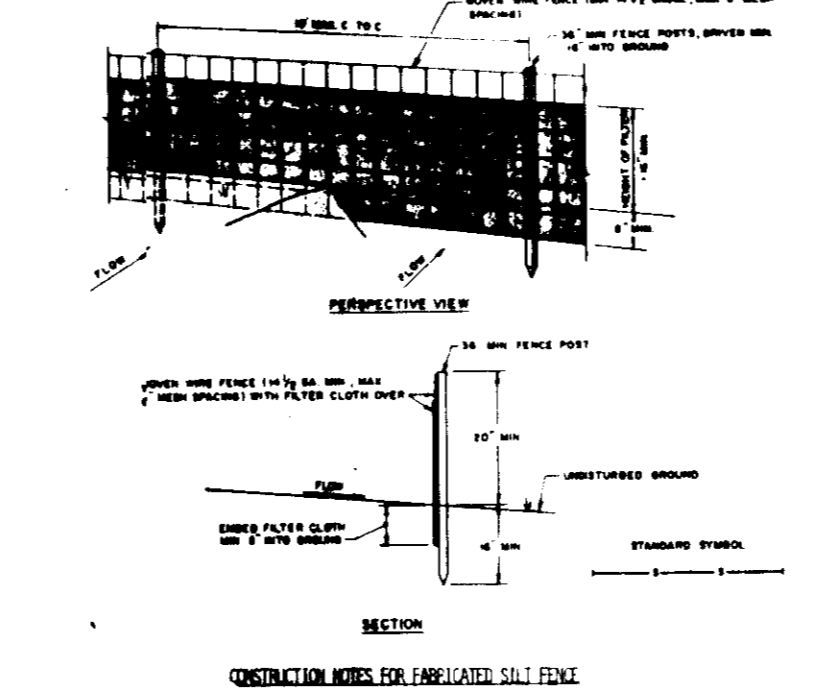
TEST PIT DATA  
SCALE: HORIZ. NO SCALE  
VERT. 1"=5'



- CONSTRUCTION SPECIFICATIONS
- Stone dike shall be constructed by earthmoving equipment.
  - Stone dike shall have positive drainage to the outlet.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.

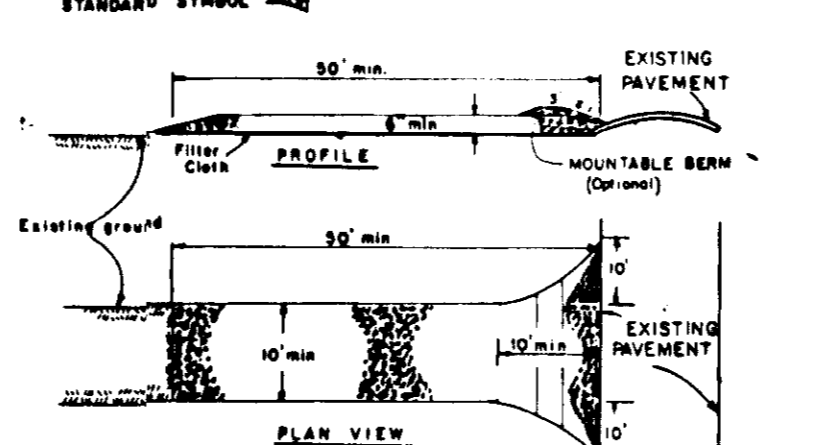
TYPE OF MATERIAL	CONSTRUCTION SPECIFICATION	NOTE
1	3-5.00 SEED AND STRAW MULCH	SEE DRAWING NO. 7 OF 9
2	3-3.00 SEED AND STRAW MULCH	SEE DRAWING NO. 7 OF 9
3	5.0-8.00 SEED AND STRAW MULCH	SEE DRAWING NO. 7 OF 9
4	8.0-12.00 SEED AND STRAW MULCH	SEE DRAWING NO. 7 OF 9

EARTH DIKE  
NO SCALE



- CONSTRUCTION SPECIFICATIONS
- Stone dike shall be constructed by earthmoving equipment.
  - Stone dike shall have positive drainage to the outlet.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.

SILT FENCE DETAIL  
NO SCALE



- CONSTRUCTION SPECIFICATIONS
- Stone dike shall be constructed by earthmoving equipment.
  - Stone dike shall have positive drainage to the outlet.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.
  - Stone dike shall be constructed with stone.

STABILIZED CONSTRUCTION ENTRANCE DETAIL  
NO SCALE

SEDIMENT TRAP NO. 1

DRAINAGE AREA	2.75 AC
DISTURBED AREA	1.58 AC
STORAGE VOLUME REQUIRED	4,950.0 CF
PROVIDED	13,500.0 CF
CREST ELEVATION	401.97
BOTTOM ELEVATION	400.00
CLEANOUT ELEVATION	398.97
TRAP DIMENSIONS	80' X 100' X 40'

SEDIMENT TRAP NO. 2

DRAINAGE AREA	2.03 AC
DISTURBED AREA	1.53 AC
STORAGE VOLUME REQUIRED	3,654.0 CF
PROVIDED	13,500.0 CF
CREST ELEVATION	402.71
BOTTOM ELEVATION	400.00
CLEANOUT ELEVATION	400.86
TRAP DIMENSIONS	95' X 100' X 17'

CONING APPROVED  
5-15-87  
AM

- SEDIMENT CONTROL NOTES
2. EROSION CONTROL MEASURES MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
  3. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE USED WHEN KNOWLEDGEABLE SEEDING DATA DO NOT ALLOW FOR PROPER COMBINATION AND ESTABLISHMENT OF GRASSES.
  5. ALL SEDIMENT TRAPS/BASINS SHALL BE PERMANENT AND MAINTENANCE SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
  6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
  7. SITE ANALYSIS:
    - TOTAL AREA OF SITE: 2.03 ACRES
    - AREA DISTURBED: 1.53 ACRES
    - AREA TO BE VEGETATIVELY STABILIZED: 1.53 ACRES
    - TOTAL CUT: 0.00 CU. YDS.
    - TOTAL FILL: 0.00 CU. YDS.
    - OFFSITE WASTE/HARBOR AREA LOCATION: 0.00 CU. YDS.
  8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  9. ADDITIONAL SEDIMENT CONTROL MEASURES MUST BE PROVIDED, IF NEEDED, NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.
  10. ALL SEDIMENT TRAPS SHALL BE PERMANENT AND MAINTENANCE SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS: 18 LBS OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING:
- 1) PREPARED - APPLY 2 TONS PER ACRE POLYETHYLENE LIME (2 1/2 lbs/1000 sq ft) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft) BEFORE SEEDING. BARROW OR DISC UP TO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA/PURIFIED FERTILIZER (9 lbs/1000 sq ft).
  - 2) ACCEPTABLE - APPLY 2 TONS PER ACRE POLYETHYLENE LIME (2 1/2 lbs/1000 sq ft) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft) BEFORE SEEDING. BARROW OR DISC UP TO UPPER THREE INCHES OF SOIL.
- SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 50 LBS PER ACRE (1.4 lbs/1000 sq ft) OF SEEDING: 3) TALL FESCUE. FOR THE PERIOD MAY 1 THRU JUNE 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 3 LBS PER ACRE (.05 lbs/1000 sq ft) OF WHEAT/RYEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/KENTUCKY 31 TALL FESCUE AND WHEAT WITH 2 TONS/FACE WELLS ANCHORED STRAW MULCH. APPLY 1/4 TO 3 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNBOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 gal/1000 sq ft) OF UNBOTTLED ASPHALT OR FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 248 GALLONS PER ACRE (6 gal/1000 sq ft) FOR ANCHORING.
- MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.
- TEMPORARY SEEDING NOTES
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS: APPLY 400 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft) SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU NOVEMBER 15, SEED WITH 50 LBS PER ACRE (1.4 lbs/1000 sq ft) OF SEEDING: 3) TALL FESCUE. FOR THE PERIOD MAY 1 THRU JUNE 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 3 LBS PER ACRE (.05 lbs/1000 sq ft) OF WHEAT/RYEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/KENTUCKY 31 TALL FESCUE AND WHEAT WITH 2 TONS/FACE WELLS ANCHORED STRAW MULCH. APPLY 1/4 TO 3 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNBOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 gal/1000 sq ft) OF UNBOTTLED ASPHALT OR FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 248 GAL PER ACRE (6 gal/1000 sq ft) FOR ANCHORING.
- REFER TO THE 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

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."

James K. Fry  
ENGINEER: 5-3-88

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."

James R. Moxley, Jr.  
DEVELOPER: JAMES R. MOXLEY, JR., PRESIDENT  
SECURITY DEVELOPMENT CORP. 5-3-88

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

James M. Stelm  
U.S. SOIL CONSERVATION SERVICE 7/29/88

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE AREA REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen L. Fisher  
HOWARD S.C.D. 7/29/88

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

Joyce M. Boyd, M.D.  
COUNTY HEALTH OFFICER 8-19-88

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director

Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Walter  
PLANNING DIRECTOR 9-2-88

Frank S. M. Langley  
HEAD, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. 8-23-88

NO.	DATE	REVISION
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TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering

8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: 103-29 LIMITED PARTNERSHIP  
P.O. BOX 417  
ELLCOTT CITY, MD 21043

PROJECT: WHEATFIELDS CENTER  
PHASE I

LOCATION: TAX MAP NOS. 24 PARCEL 676  
2ND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DEVELOPER: SECURITY DEVELOPMENT CORP  
PO BOX 417  
ELLCOTT CITY, MD 21043

TITLE: SEDIMENT CONTROL  
NOTES AND DETAILS

DATE: JANUARY 11, 1987  
MAY 3, 1988

DES: RJW DRN: KAM SCALE: AS SHOWN PROJECT NO: 8641 SDF DRAWING: 6 OF 8



**SITE PREPARATION**

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

**EARTH FILL**

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

**Placement**

Areas on which fill to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

**Compaction**

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

**Cutoff Trench**

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

**STRUCTURAL BACKFILL**

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

**PIPE CONDUITS**

All pipes shall be circular in cross section.

**Corrugated Metal Pipe**

1. **Materials - (Steel Pipe)** - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specifications M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

**Materials - (Aluminized Steel Pipe)** - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

**Materials - (Aluminum Pipe)** - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

2. **Connections** - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to the completely watertight. Dimple bands are not considered to be watertight.

3. **Bedding** - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unsuitable soil is encountered all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

4. **Laying pipe** - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides

5. **Backfilling** shall conform to structural backfill as shown above.

6. **Other details** (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**Reinforced Concrete Pipe**

1. **Materials** - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. An approved equivalent is AWWA Specification C-301.

2. **Bedding** - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3" or as shown on the drawings.

3. **Laying pipe** - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire length, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

4. **Backfilling** shall conform to structural backfill as shown above.

5. **Other details** (anti-seep collars, valves, etc.) shall be as shown on the drawings.

6. For pipes of other materials, specific specifications shall be shown on the drawings.

**CONCRETE**

**1. Materials**

a. **Cement** - Normal Portland cement shall conform to the latest ASTM Specification C-150.

b. **Water** - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.

c. **Sand** - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.

d. **Coarse Aggregate** - The coarse aggregate shall be clean, hard, strong and durable and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.

e. **Reinforcing Steel** - The reinforcing steel shall be deformed bars of intermediate grade billet steel conforming to ASTM Specification A-615.

2. **Design Mix** - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/4 to 6 U.S. Gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 1:2:3-1/2. The combination of aggregates may be adjusted to produce a plastic and workable mix that will not produce harshness in placing or honeycombing in the structure.

3. **Mixing** - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operation. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

4. **Forms** - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete.

The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed.

Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.

5. **Reinforcing Steel** - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.

6. **Consolidating** - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.

7. **Finishing** - Defective concrete, honeycombed areas, voids left by the removal of the rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.

8. **Protection and Curing** - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

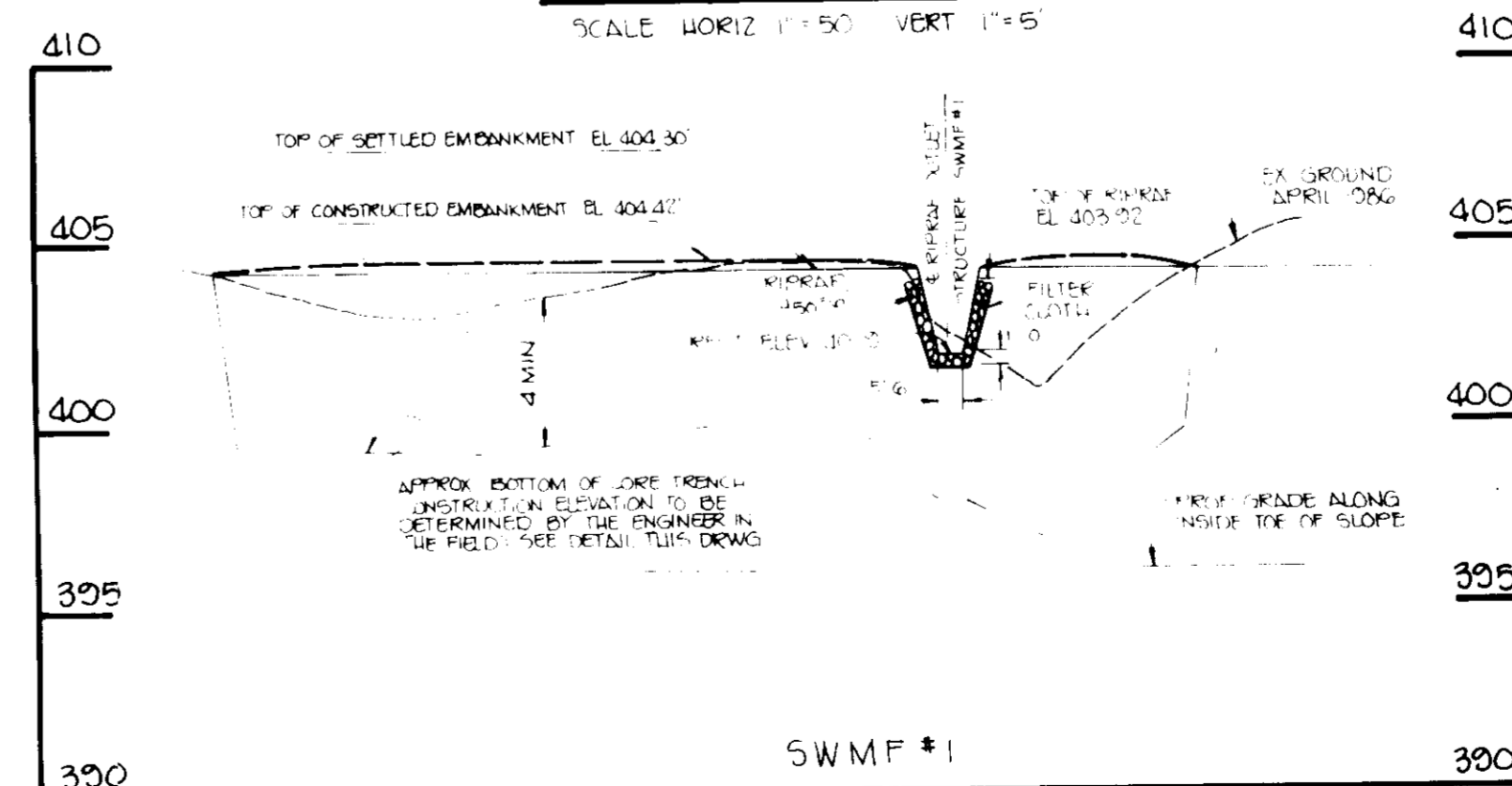
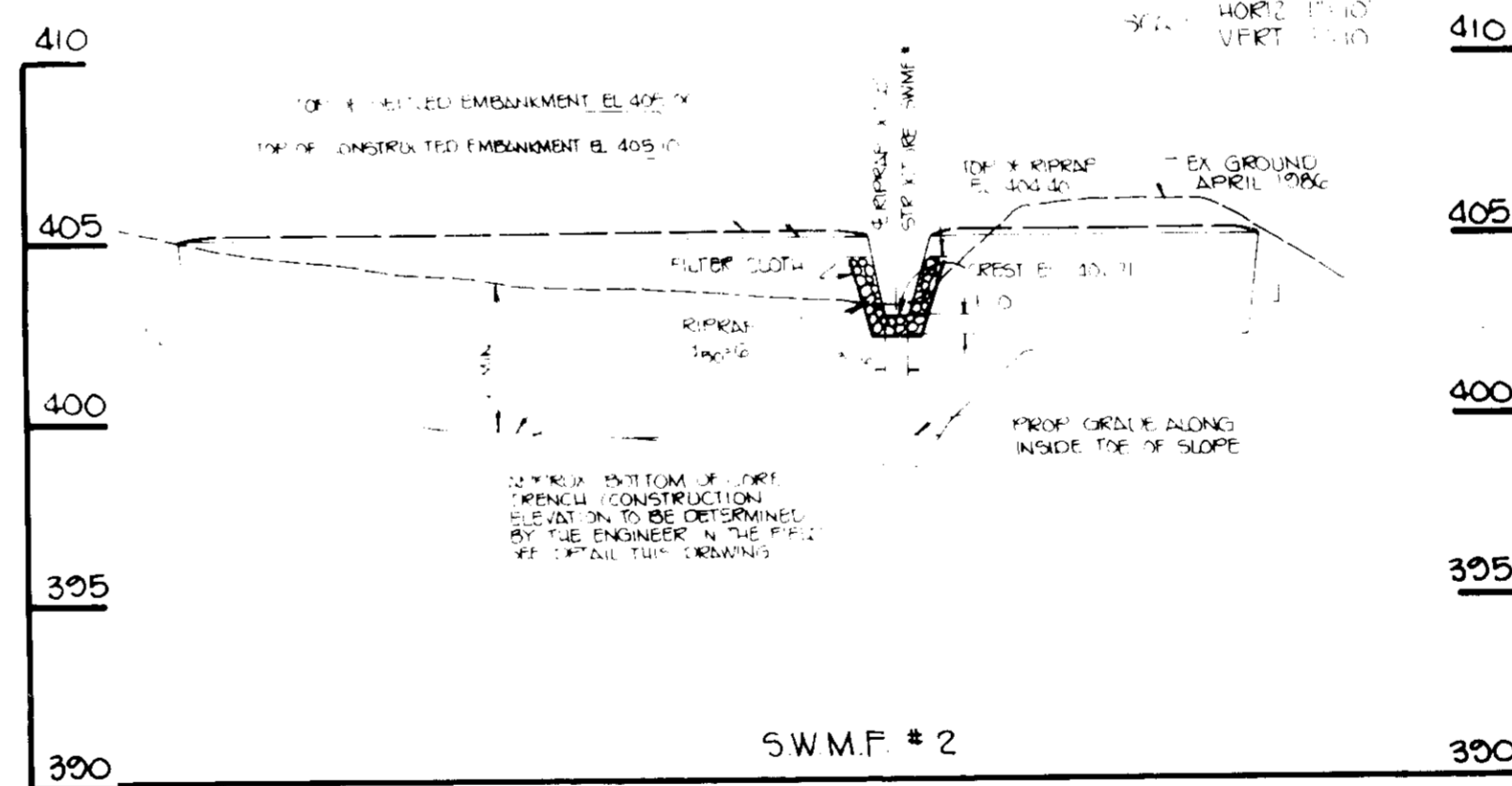
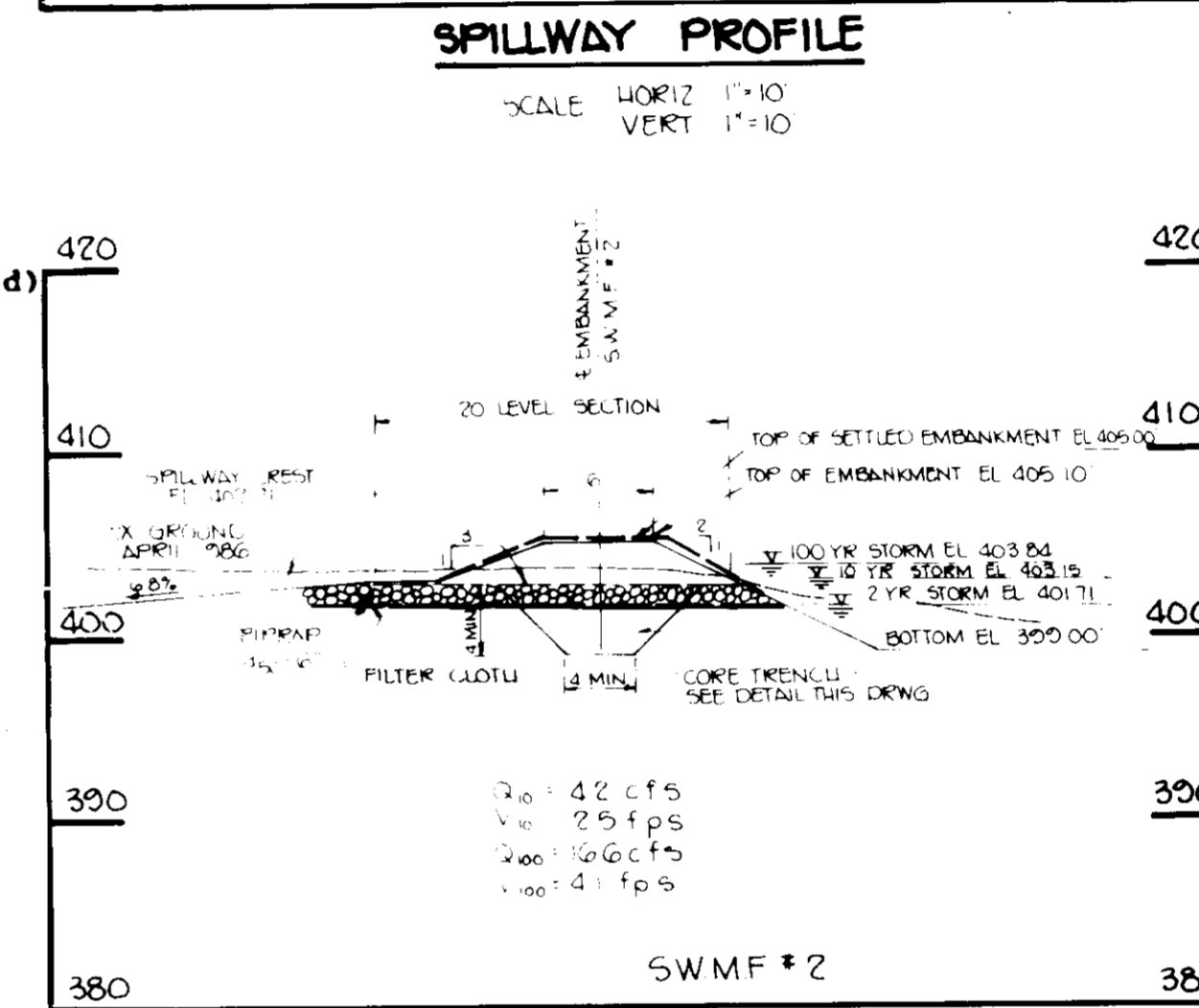
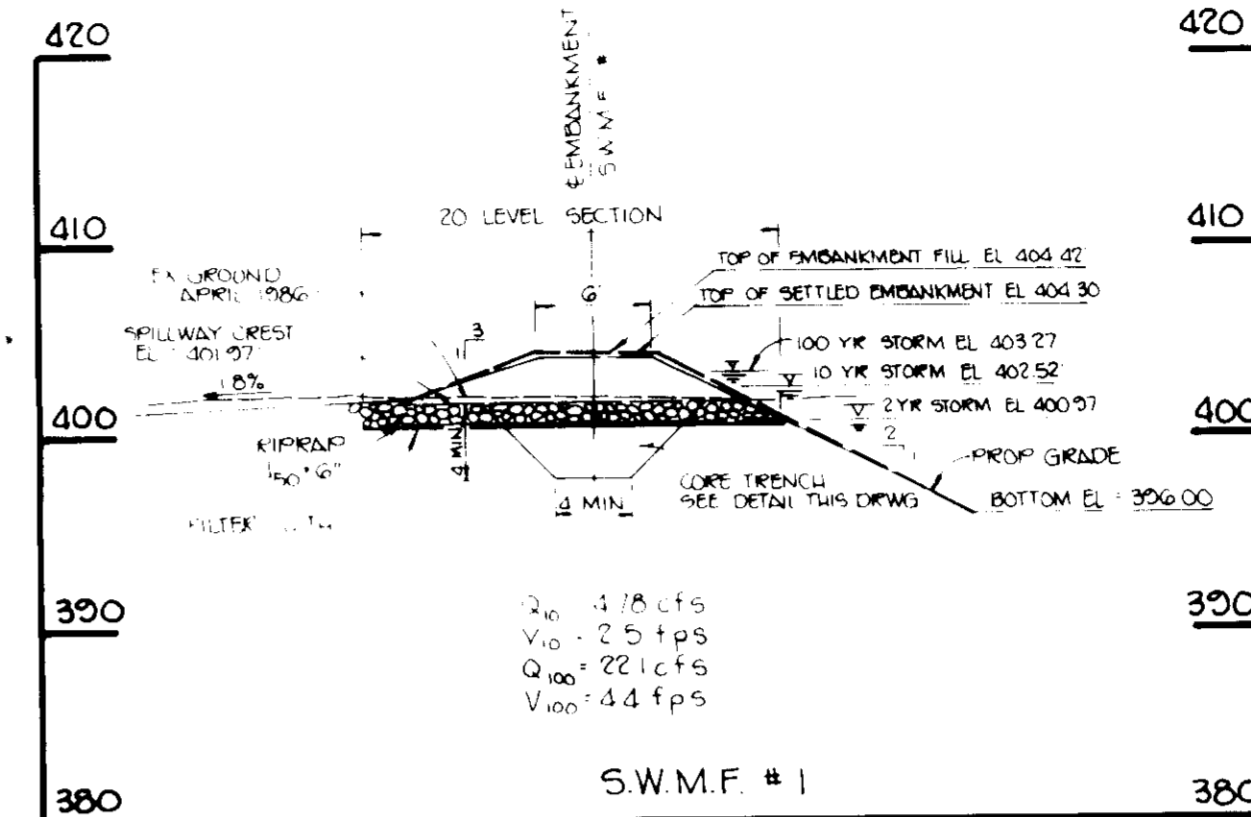
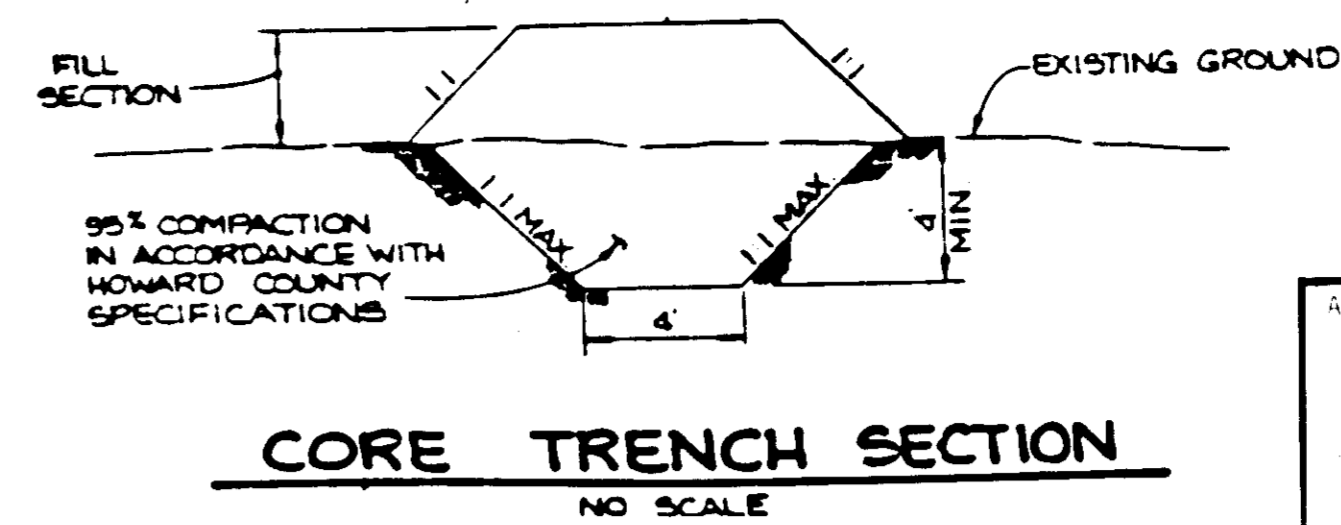
9. **Placing Temperature** - Concrete may not be placed at temperatures below 37°F with the temperature falling, or 34° with the temperature rising.

**STABILIZATION**

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

**EROSION AND SEDIMENT CONTROL**

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

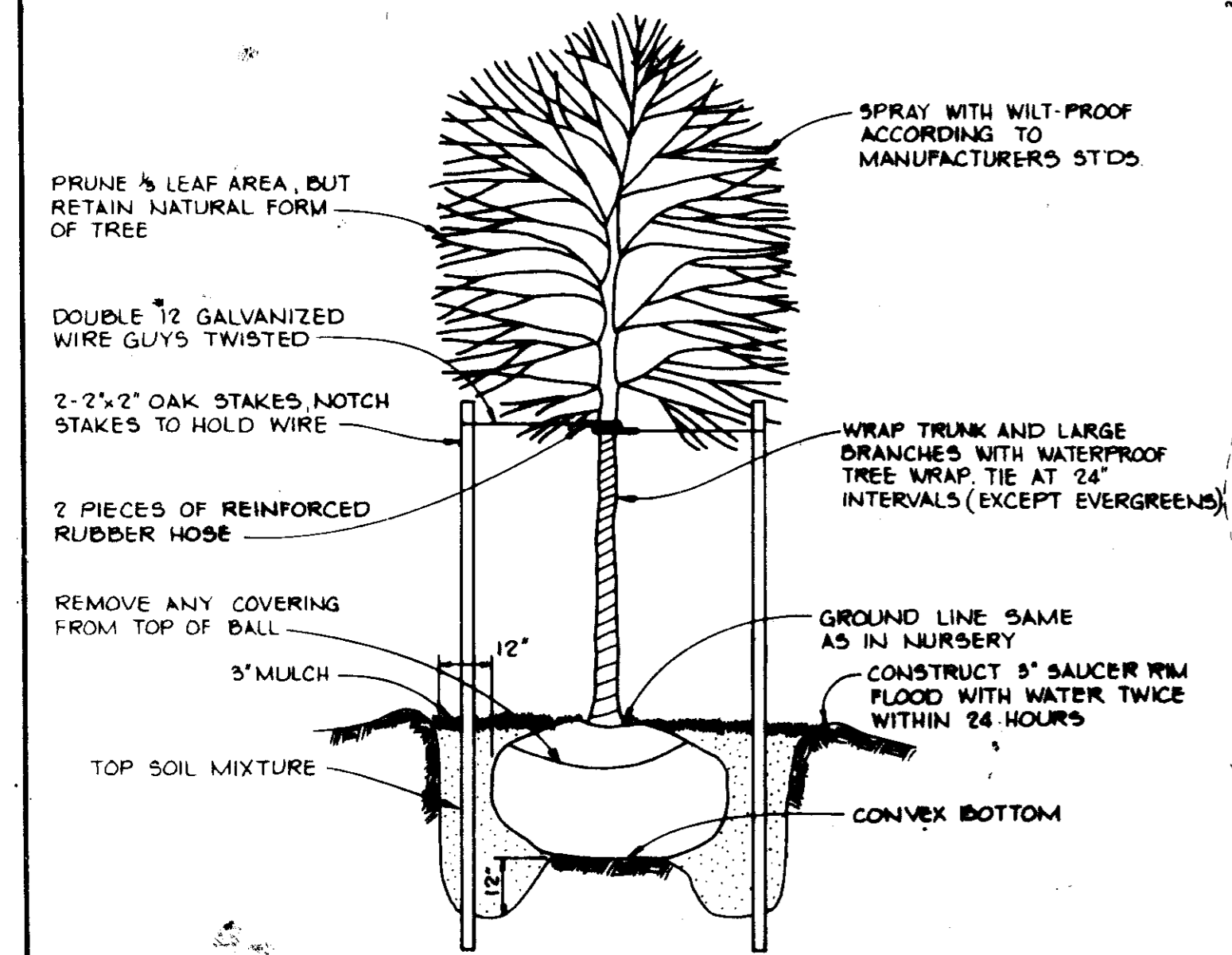


EMBANKMENT PROFILE SCALE: HORIZ 1"=50' VERT 1"=5'

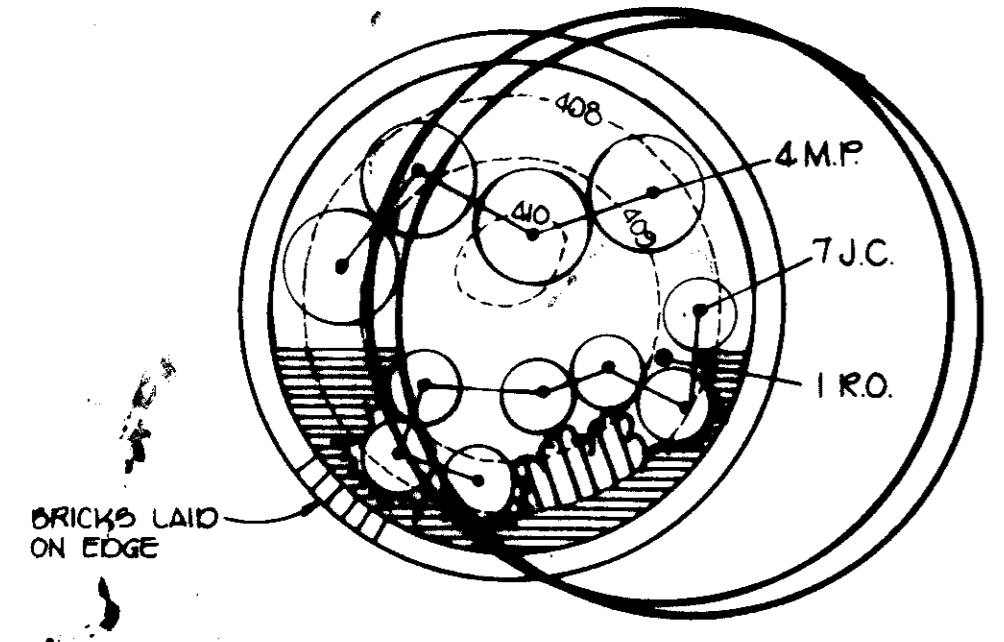
APPROVED: <i>James M. Doyle</i> 8-19-88 COUNTY HEALTH OFFICER	
BY THE ENGINEER: I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS 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.	<i>James K. Tracy</i> 5-3-88 ENGINEER: JAMES K. TRACY DATE
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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.	<i>James R. Moley</i> 5-3-88 DEVELOPER: JAMES R. MOLEY JR. SECURITY DEVELOPMENT CORPORATION - PRESIDENT DATE
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.	<i>James M. Helms</i> 2/29/88 U.S. SOIL CONSERVATION SERVICE DATE
THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	<i>Stephen L. Eichel</i> 7/27/88 HOWARD S.C.D. DATE
APPROVED: <i>Chris</i> 9-2-88 COMMUNITY PLANNING AND LAND DEVELOPMENT	<i>Trisha S. DeAngelis</i> 5-25-88 COMMUNITY PLANNING AND LAND DEVELOPMENT
NO DATE REVISION	REVISION
TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105	
OWNER: 103-29 LIMITED PARTNERSHIP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT: <b>WHEATFIELDS CENTER</b> PHASE I LOCATION: TAX MAP NOS 24 PARCEL 676 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	TITLE: STORM WATER MANAGEMENT NOTES AND DETAILS
DES: 5JB DRN: KMN	DATE: JANUARY 1, 1987 MAY 3, 1988 PROJECT NO: 8611 SDF SCALE: AS SHOWN DRAWING: 7 OF 8

**PLANT LIST**

SYMBOL	QUAN.	NAME	REMARKS
	9	ACER SACCHARUM Sugar Maple	2 1/2" MIN. CAL., B4B FULL HEAD
	6	QUERCUS BOREALIS Red Oak	2 1/2" MIN. CAL., B4B FULL HEAD
	5	CORNUS FLORIDA RUBRA Pink Flowering Dogwood	5'-6" H., B4B FULL HEAD
	6	PYRUS CALLERYANA "BRADFORD" Bradford Pear	2 1/2" MIN. CAL., B4B FULL HEAD
	5	PINUS THUNDERGII Japanese Black Pine	5'-6" H., B4B UNSHEARED
	7	PINUS RESINOSA Red Pine	5'-6" H., B4B UNSHEARED
	42 8' O.C.	PELARGONIUM DOMESTICUM (Red) Geranium	SPRING - SUMMER
	260 8' O.C.	PETUNIA HYBRIDA (White) Petunia	SUMMER
	4	PINUS MUGO Mugo Pine	30"-36" CONT.
	7	JUNIPERUS COMMUNIS "EFFUSA" Flat Top Juniper	24" - 30" CONT.

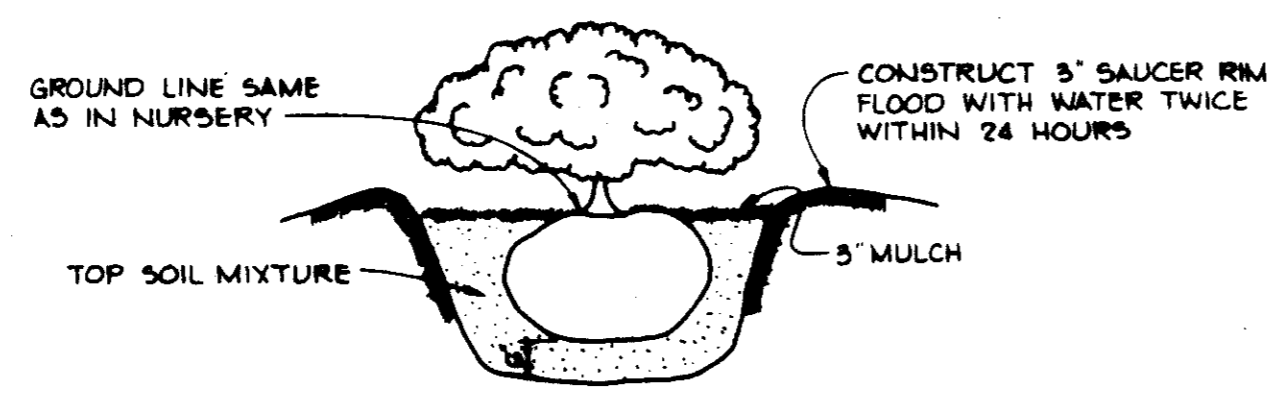


**TREE PLANTING DETAIL**  
NO SCALE

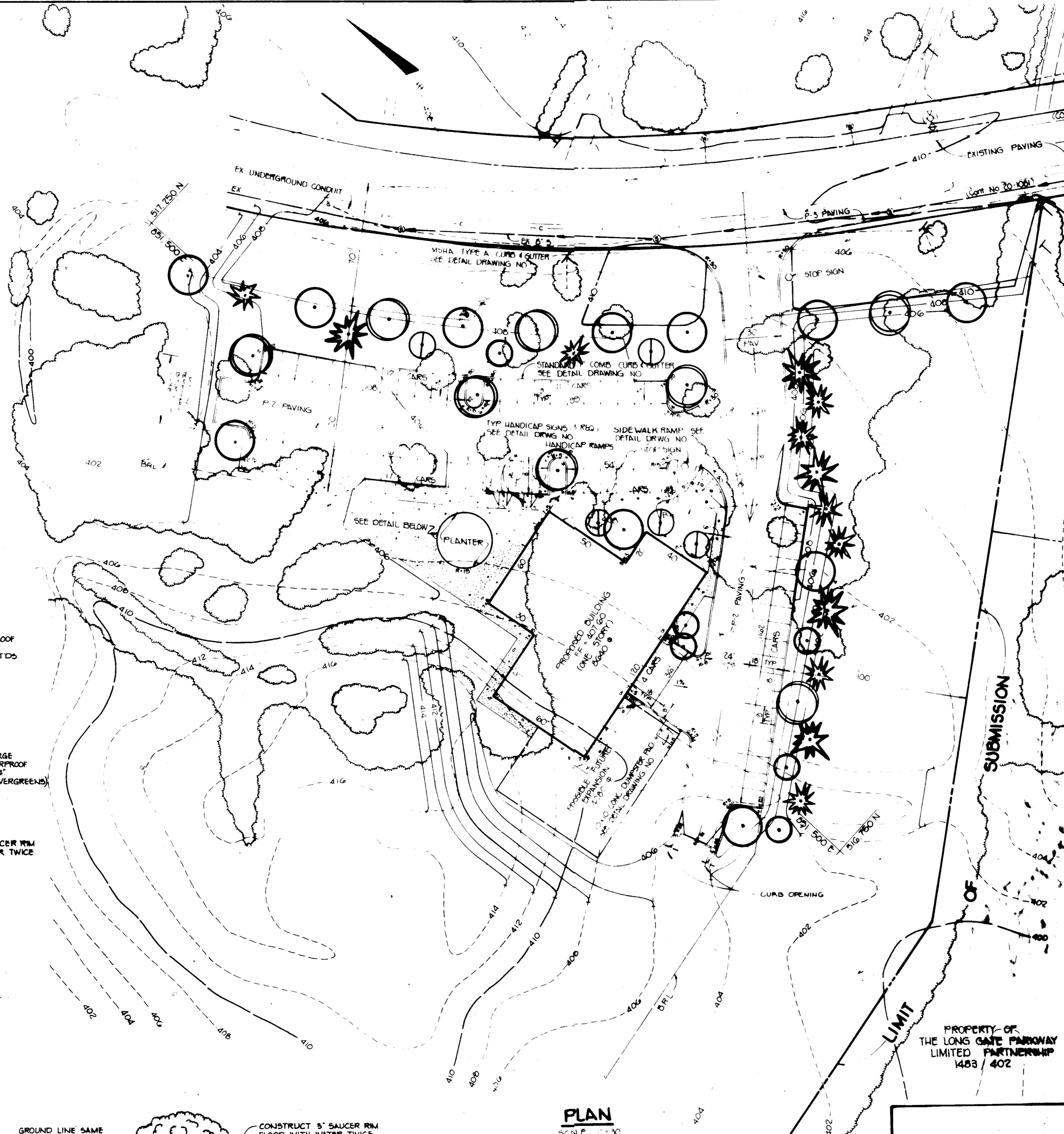


NOTE: SEE "PLANT LIST" THIS SHEET.

**PLANTER DETAIL**  
NO SCALE



**SHRUB PLANTING DETAIL**  
NO SCALE



**PLAN**  
SCALE 1" = 30'

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James M. [Signature]* 8/15/88  
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*Joyce M. [Signature]* 8-19-88  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
*[Signature]* 9-2-88  
 PLANNING DIRECTOR DATE

*[Signature]* 8-23-88  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE

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DATE \_\_\_\_\_ REVISION \_\_\_\_\_

TRACY, SCHULTE & ASSOCIATES INC.  
 planning • architecture • engineering  
 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 5-15-87

OWNER  
 103-29 LIMITED PARTNERSHIP  
 P.O. BOX 417  
 ELLICOTT CITY, MD. 21043

DEVELOPER  
 SECURITY DEVELOPMENT CORP.  
 P.O. BOX 417  
 ELLICOTT CITY, MD. 21043

PROJECT  
**WHITFIELD'S CENTER**  
 PHASE I

LOCATION TAX MAP NOS. 21 PARCEL 676  
 2<sup>ND</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

TITLE  
**TREE PLANTING PLAN**

DATE JANUARY 1987 PROJECT NO. 0611 50P  
 MAY 8, 1988

SCALE AS SHOWN DRAWING 6 OF 8

DES. JKT/JRS BRN. KMN/CDT