

GENERAL NOTES

1. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION. NEITHER THE ENGINEER NOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WARRANT OR GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE INFORMATION SHOWN.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL DRIVEWAYS DAMAGED AS A RESULT OF HIS CONSTRUCTION ACTIVITIES.
4. TREES, SHRUBS AND BUSHES ARE TO BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE. TREES, SHRUBS, BUSHES, MAILBOXES, FENCES AND ROADWAY SIGNS WHICH INTERFERE WITH ROADWAY INSTALLATION AND RELATED GRADING ACTIVITIES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS WORK.
5. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
6. PERFORMANCE OF WORK SHALL CONFORM TO THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, WHERE SPECIFIED ON PLANS OR STIPULATED IN THE SPECIFICATIONS SHALL CONFORM TO THE STATE HIGHWAY ADMINISTRATION BOOK TITLED "SPECIFICATIONS FOR MATERIALS, HIGHWAYS AND INCIDENTAL STRUCTURES".
7. REFERENCE MADE TO STANDARD DRAWINGS REFER TO THE STANDARDS BOUND IN THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, UNLESS OTHERWISE SPECIFIED. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY THAT THE STANDARD DETAILS IN HIS POSSESSION ARE THE LATEST REVISED STANDARD UP TO THE DATE OF THE ADVERTISEMENT OF THIS CONTRACT.
8. ALL COORDINATES SHOWN ARE BASED ON VALUES PROVIDED BY HOWARD COUNTY, DIVISION OF SURVEYING.
9. ONLY THOSE BENCH MARKS SHOWN ON THE PLAN AS INDICATED SHALL BE USED FOR CONSTRUCTION.
10. STOPPING SIGHT DISTANCE FOR VERTICAL CURVES SHOWN AS (S.S.D. = 000) ON PLANS IS BASED ON HEIGHT OF EYE BEING 3.75 FEET ABOVE THE ROAD SURFACE SIGHTING AN OBJECT 6 INCHES HIGH.
11. ALL LAWNS DISTURBED BY CONSTRUCTION SHALL BE SODED. ALL OTHER AREAS SHALL BE REPAIRED BY TOPSOIL, SEEDING AND MULCHING.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AS NOT TO DISTURB THE EXISTING VEGETATION OUTSIDE LIMITS OF CONSTRUCTION. SOIL STABILIZATION WILL CONFORM TO U.S.D.A. SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS. THE CONTRACTOR WILL OBTAIN APPROVAL OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR HIS PLANS IN CONTROLLING SEDIMENT AND EROSION ON THIS PROJECT.
13. THE CONTRACTOR SHALL SUBMIT HIS SCHEDULE OF CONSTRUCTION AND PLAN FOR MAINTENANCE OF TRAFFIC TO HOWARD COUNTY BEFORE GRADING OR EXCAVATING OPERATIONS ARE INITIATED. THESE CONSTRUCTION AND TRAFFIC MAINTENANCE SCHEDULES SHALL BE DEVELOPED SO AS TO MAINTAIN TWO (2) LANES OF TRAFFIC AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES AND SIGNS.
14. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AT LEAST 3 DAYS PRIOR TO CONSTRUCTION OF THIS PROJECT:
 HOWARD COUNTY FIRE DEPARTMENT 992-2311
 HOWARD COUNTY POLICE DEPARTMENT 992-2222
 MISS UTILITY 559-0100

CAPITAL PROJECT T-8-7009
ST. JOHNS LANE
ROAD IMPROVEMENTS
DEPARTMENT OF PUBLIC WORKS

TERRELL A. F. No. 9757
 8/16/82

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *William F. Nunn* 8-16-82
 Chief, Bureau of Engineering: *Robert S. P. ...* 8/16/82
 Chief, Bureau of Highways: *Granville W. ...* 8/16/82
 Chief, Roads, Bridges and Storm Drainage Division: *Elizabeth Anderson Palm* 8/13/82

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

CAPITAL PROJECT T-8-7009

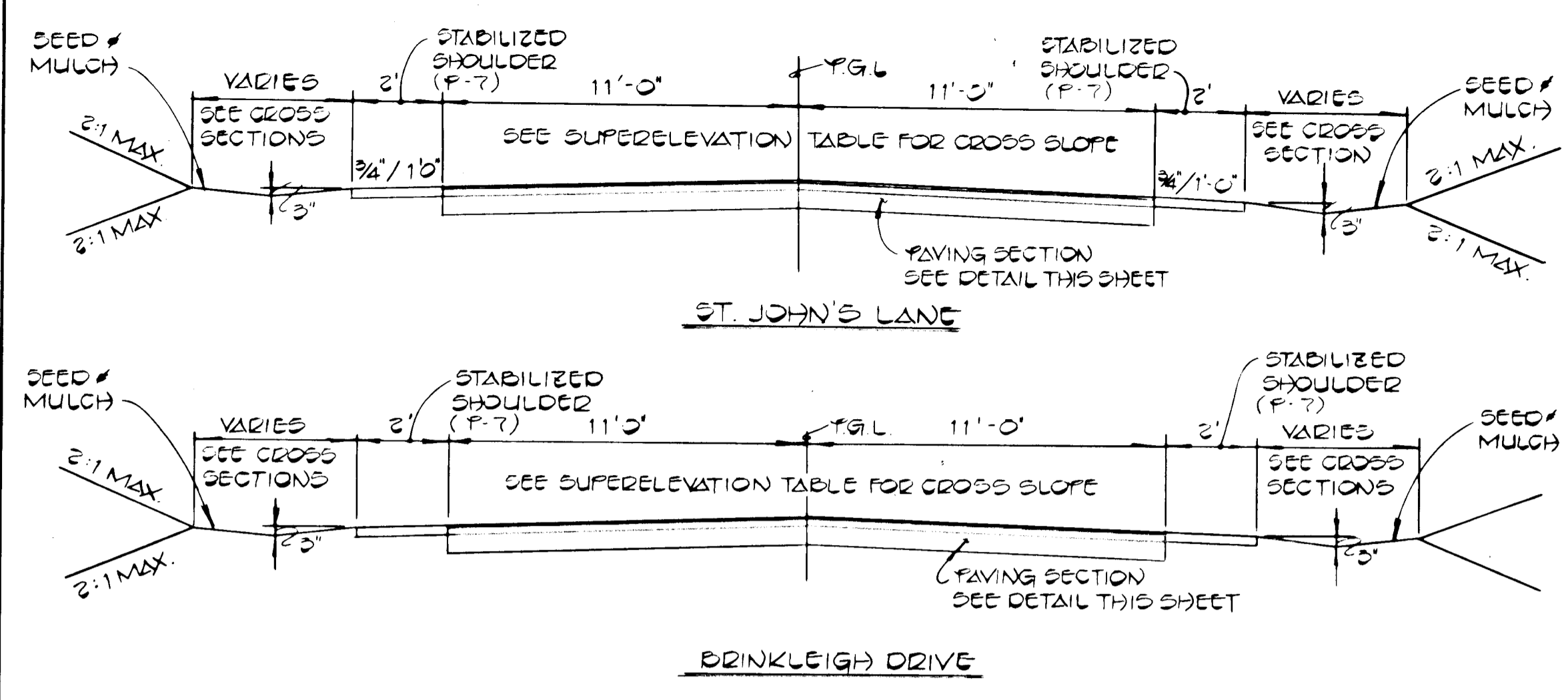
VICINITY MAP

ST. JOHNS LANE
 ROAD IMPROVEMENTS
 ELECTION DISTRICT 2
 HOWARD COUNTY, MARYLAND

CAPITAL PROJECT T-8-7009
 ST. JOHNS LANE
 ROAD IMPROVEMENTS
 HOWARD COUNTY, MARYLAND
 DRAWING NO. 1 OF 5
 SCALE 1" = 600'
 DESIGNED BY: TAF
 DRAFTED BY: TAF
 CHECKED BY: ED

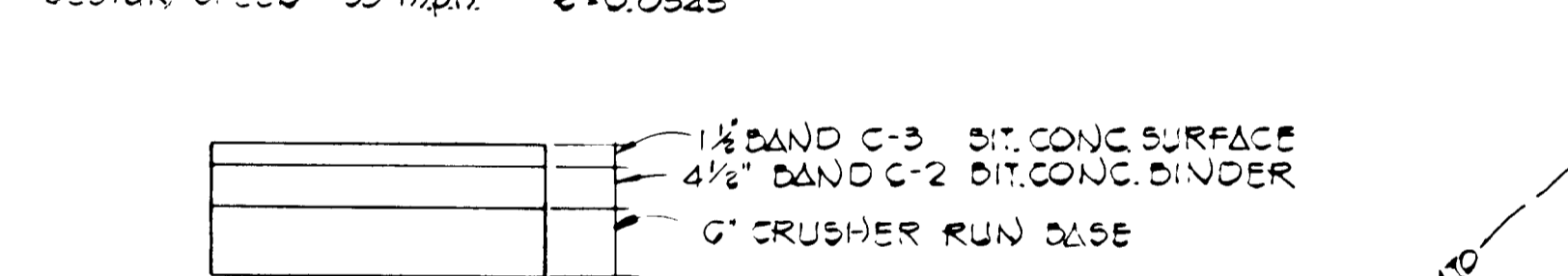
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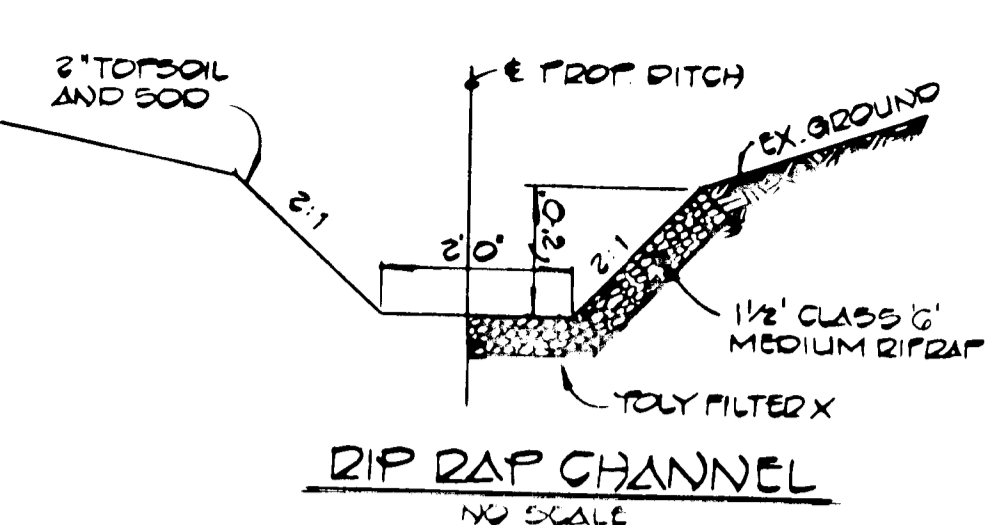
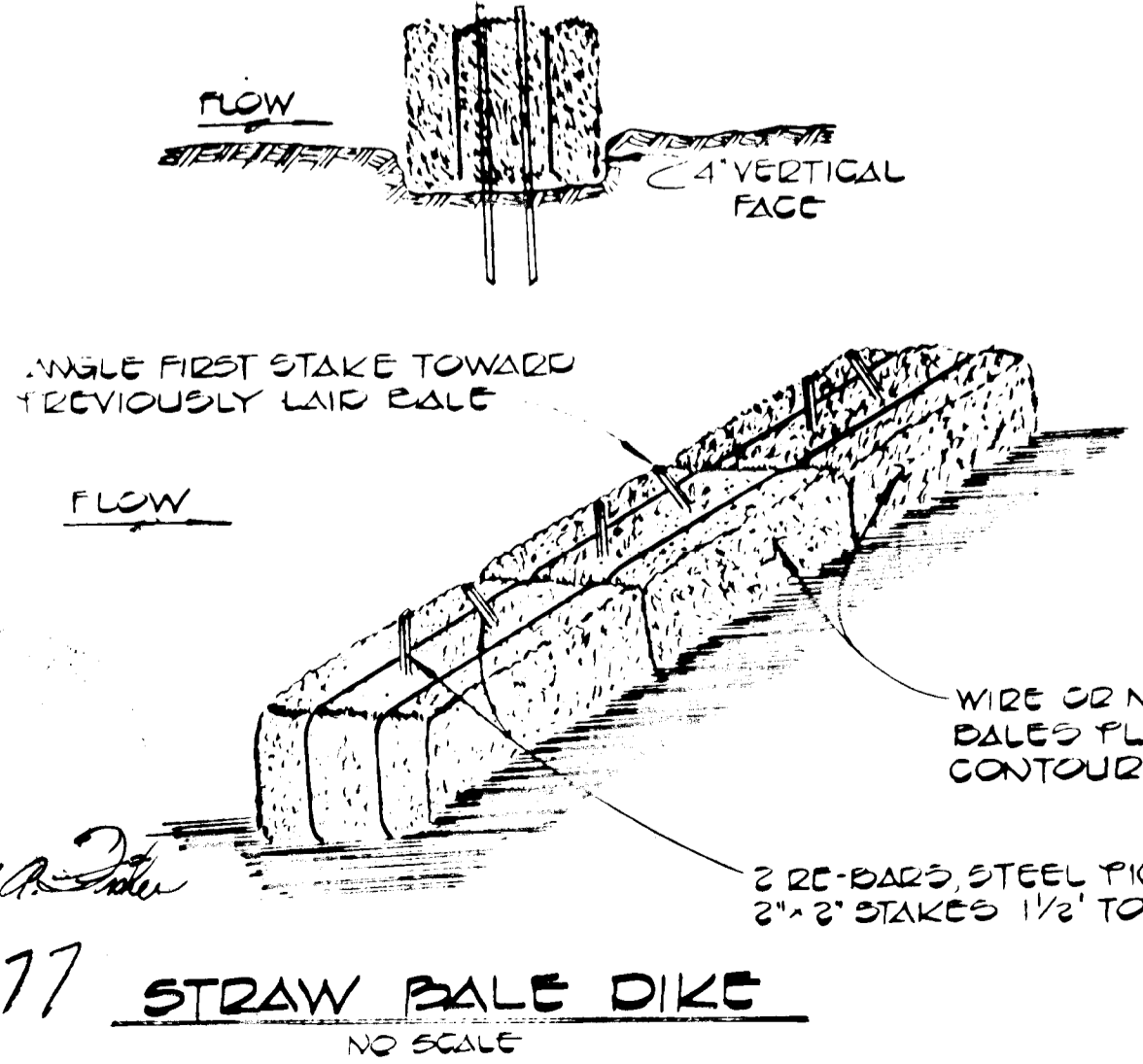
TYPICAL ROADWAY SECTION
NON-SUPERELEVATED
NO SCALE

SUPERELEVATION TABLE SAINT JOHN'S LANE					
LEFT PAVING EDGE ELEV.	LEFT EDGE CORRECTION FROM P.G.L.	P.G.L. STA.	P.G.L. ELEV.	RIGHT EDGE CORRECTION FROM P.G.L.	RIGHT PAVING EDGE ELEV.
466.57	-0.33	0+00	466.50	-0.33	466.57
467.25	-0.17	0+50	467.15	-0.33	467.25
467.40	+0.00	1+00	467.40	-0.33	467.07
467.25	+0.30	1+50	467.25	-0.33	467.52
468.50	+0.20	2+00	467.90	-0.30	467.30
468.67	+0.20	2+50	468.27	-0.30	467.27
468.75	+0.20	3+00	468.45	-0.20	467.55
469.05	+0.20	3+50	468.45	-0.20	467.85
469.25	+0.20	4+00	468.25	-0.20	468.25
470.25	+0.20	4+50	468.25	-0.20	468.05
471.22	+0.20	5+00	471.22	-0.20	470.02
472.02	+0.20	5+50	471.22	-0.20	471.02
472.21	+0.20	6+00	471.21	-0.20	471.01
472.10	+0.20	6+50	471.02	-0.20	471.13
471.37	+0.20	7+00	471.57	-0.22	471.15
471.35	+0.30	7+50	471.25	-0.33	471.12
471.35	+0.15	8+00	471.21	-0.33	470.88
470.65	+0.00	8+50	470.65	-0.33	470.50
470.12	+0.07	9+00	470.19	-0.33	469.86
468.48	-0.23	9+50	468.71	-0.33	468.38
467.51	-0.33	10+00	467.51	-0.33	467.51



TYPICAL PAVING SECTION
NO SCALE

SUPERELEVATION TABLE BRINKLEIGH DRIVE					
LEFT PAVING EDGE ELEV.	LEFT EDGE CORRECTION FROM P.G.L.	P.G.L. STA.	P.G.L. ELEV.	RIGHT EDGE CORRECTION FROM P.G.L.	RIGHT PAVING EDGE ELEV.
465.71	-0.05	0+11	465.76	+0.05	465.82
465.24	-0.04	0+50	465.28	+0.04	465.32
467.63	-0.04	1+00	467.67	+0.04	467.71
467.06	-0.33	1+50	467.33	-0.33	467.06

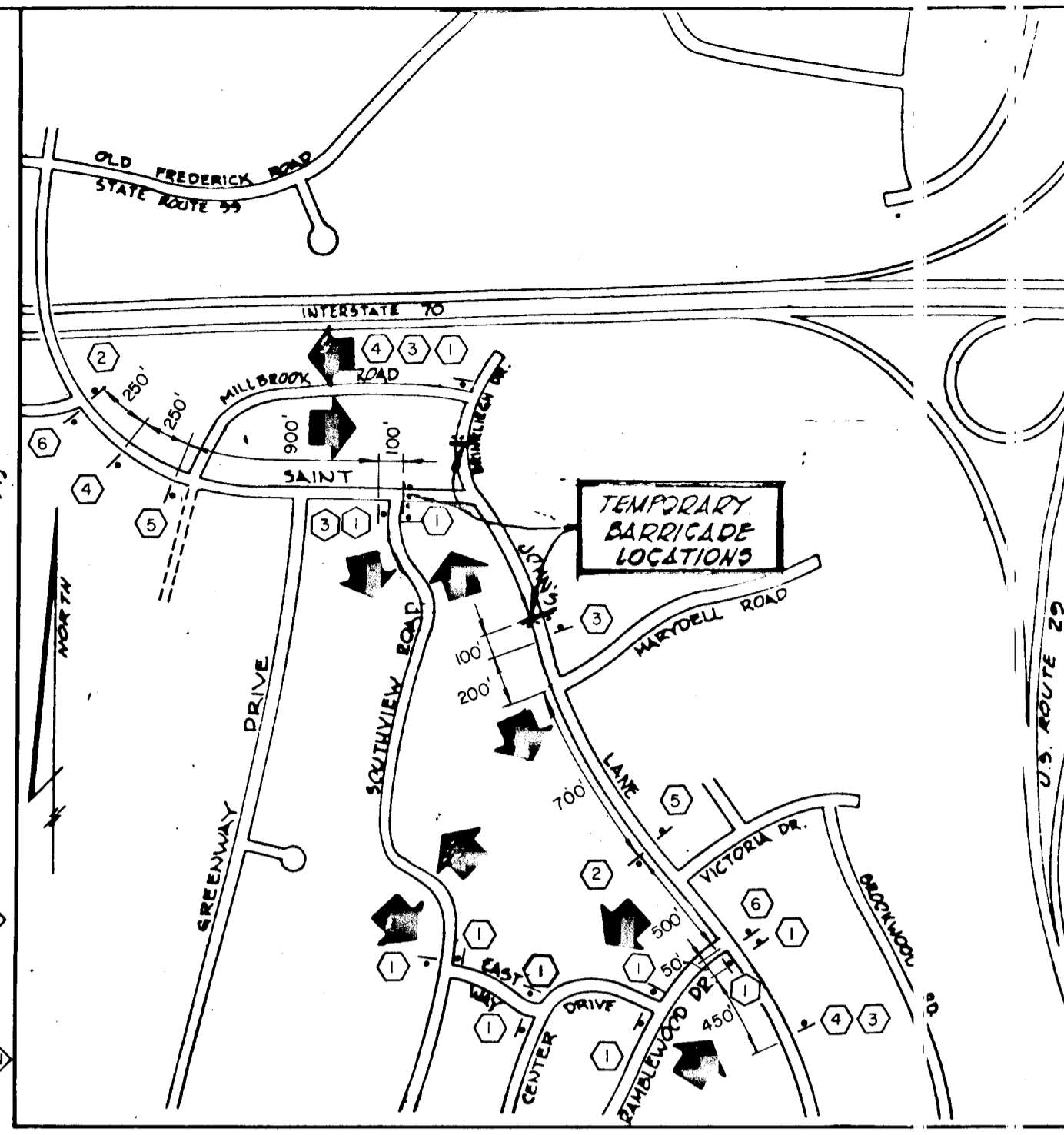
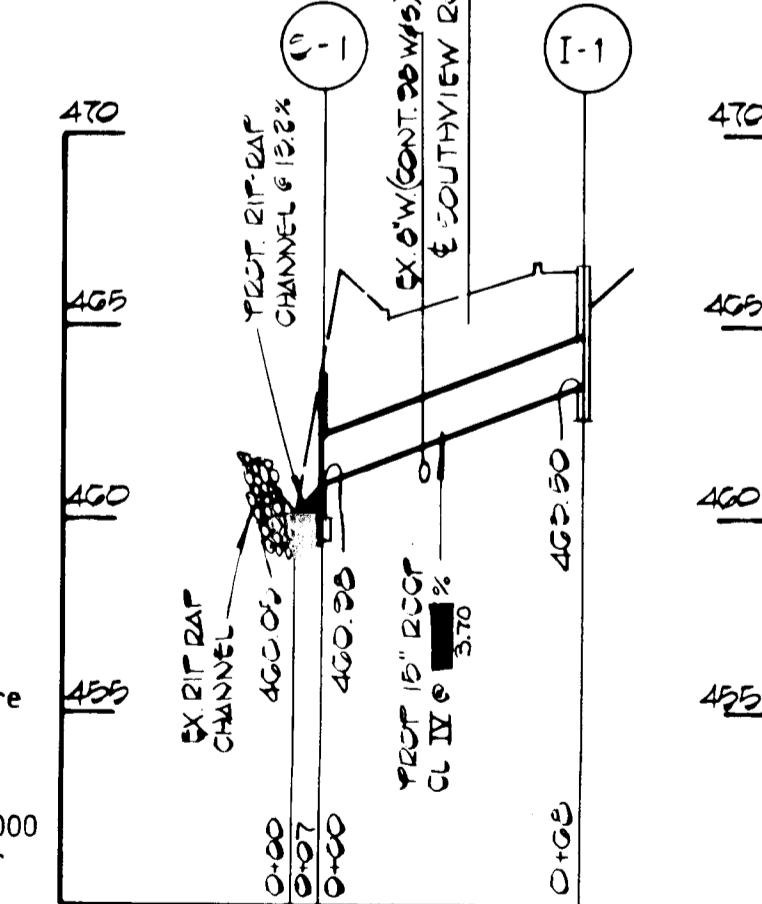


STABILIZATION NOTES
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after finish grading.
All exposed areas of the embankment and pond shall be stabilized in the following manner:

- Seeded Preparation:** Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendments:** Apply 2 tons per acre dolomitic limestone (92 lbs./1,000 sq.ft.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1,000 sq.ft.). Harrow or disc lime and fertilizer into upper three inches of soil. At time of seeding, apply 400 lbs. per acre (9.2 lbs./1,000 sq.ft.) of 38-0-0 ureaform fertilizer and 500 lbs. per acre (11.5 lbs./1,000 sq.ft.) of 10-20-20 fertilizer.
- Seeding -** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1,000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1,000 sq.ft.) of weeping 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./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- Mulching -** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1,000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gallons/1,000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gallons/1,000 sq.ft.) for anchoring.
- Maintenance -** Inspect all seeded areas and make needed repairs, replacements, and reseeds.

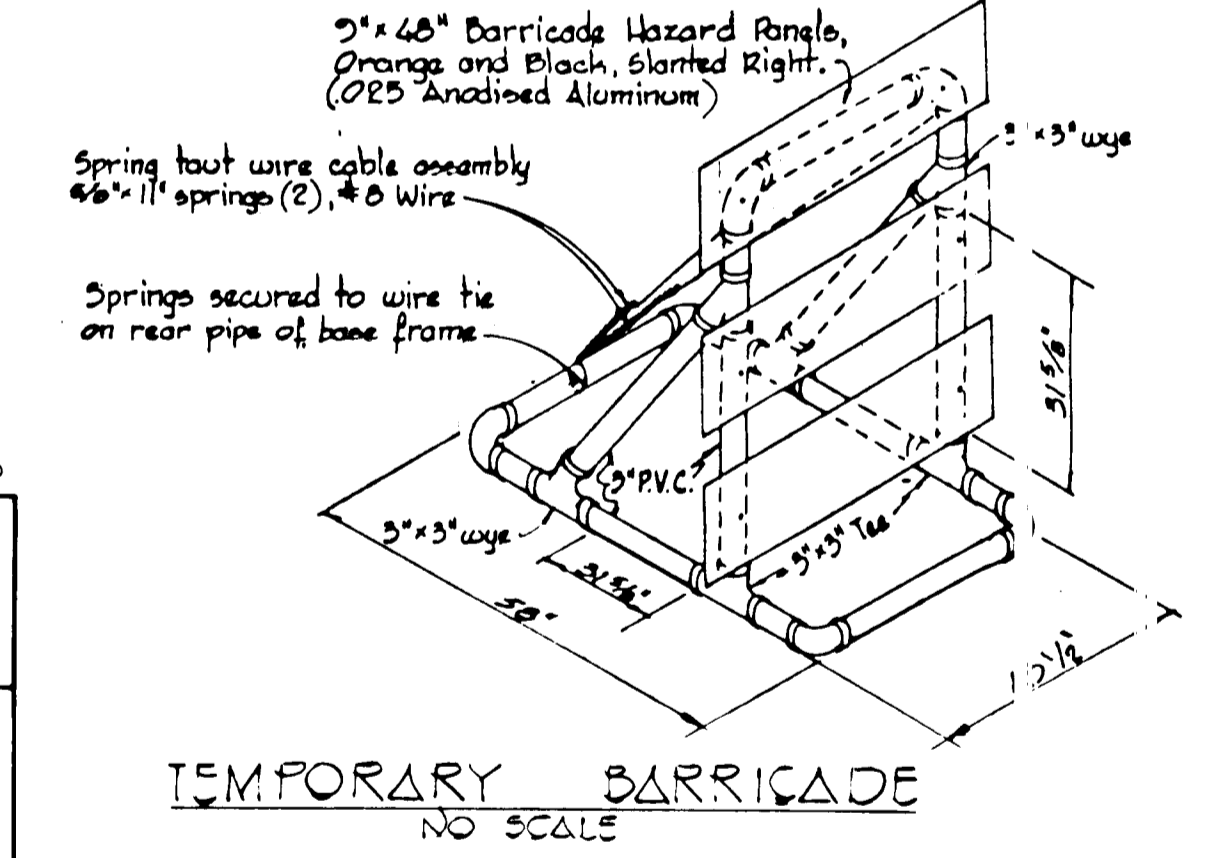
TEMPORARY SEEDING NOTES
Seeded Preparation - Loosen upper 3 inches by discing, raking, or other acceptable means.
Soil Amendments - Apply 600 lbs. per acre (15 lbs./1,000 sq.ft.) of 10-20-20 fertilizer.
Seeding - For periods March 1 thru April 30, and from August 15 thru November 15, seed with 2-1/2 bushels per acre (3.2 lbs./1,000 sq.ft.) of annual rye. For the period May 1 thru August 14 seed with 3 lbs./acre (0.07 lbs./1,000 sq.ft.) of weeping lovegrass.
Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1,000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre (5 gallons/1,000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher use 348 gallons per acre (8 gallons/1,000 sq.ft.) for anchoring.

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	STOK INLET	0+28.18RT	462.50	467.5	467.5	HOOD STD 50 4.12x4.12
S-1	C' ENDWALL	10+36.27LT	---	400.43	402.50	HOOD STD 30 5.21



TRAFFIC MAINTENANCE PLAN
SCALE: 1" = 200'

- CONSTRUCTION SEQUENCE**
- INSTALL STRAW BALE DIKES ACROSS EXISTING ROADWAY SIDE DITCHES AT LOCATIONS SHOWN ON PLAN.
 - NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS, SEDIMENT CONTROL DIVISION FOR INSPECTION (992-2433).
 - REMOVE EXISTING PAVING AS REQUIRED.
 - CONSTRUCT PROPOSED 15" RCCP BETWEEN I-1 AND S-1 AND INSTALL STRAW BALE DIKES ACROSS ALL INLET OPENINGS.
 - PLACE ROAD TO PROPOSED CROSS SECTION. TOPSOIL, SEED AND MULCH SIDE SLOPES USING TEMPORARY AND PERMANENT SEED MIXTURE. SEE STABILIZATION NOTES.
 - PLACE PAVEMENT COURSES.
 - FINE GRADE ALL DISTURBED AREAS NOT TO BE PAVED OR PREVIOUSLY STABILIZED; TOPSOIL, SEED AND MULCH IN ACCORDANCE WITH STABILIZATION NOTES USING PERMANENT SEEDING.
 - CONSTRUCT RIP-RAP CHANNEL AT S-1.
 - WHEN ALL SEEDING AREAS HAVE A 4" MINIMUM STAND OF GRASS AND UPON APPROVAL BY THE SEDIMENT CONTROL INSPECTOR, STRAW BALE DIKES SHALL BE REMOVED AND THE DISTURBED AREAS SHALL BE BROUGHT TO FINISHED GRADE AND STABILIZED USING PERMANENT SEEDING.
 - THE CONTRACTOR SHALL ROUTINELY INSPECT THE SEDIMENT CONTROL DEVICES AND PROVIDE WHATEVER MAINTENANCE REQUIRED TO INSURE THE DEVICES ARE FUNCTIONING IN A MANNER TO RETAIN ANY SEDIMENT GENERATED BY CONSTRUCTION WITHIN THE LIMITS OF WORK.
- NOTES:**
- THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS TO TEMPORARILY REDIRECT TRAFFIC ALONG SAINT JOHN'S LANE.
 - THE STANDARD SIZES, COLOR AND LETTER SIZES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - THE HOWARD COUNTY TRAFFIC ENGINEERING DEPARTMENT SHALL INSTALL 25 MPH SPEED LIMIT ON SAINT JOHN'S LANE.
 - WARNING LIGHTS SHOULD BE PLACED AT THE BARRICADES AT NIGHT.
 - THE CONTRACTOR MUST MAINTAIN VERTICAL ACCESS TO THE HOUSES AFFECTED BY TEMPORARILY CLOSING A PORTION OF SAINT JOHN'S LANE TO THRU TRAFFIC.
 - MEN WORKING AHEAD SIGNS TO COMPENSATE PEDESTRIAN PATHWAY CONSTRUCTION SHALL BE FURNISHED AND MAINTAINED BY CONTRACTOR.
 - THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN ALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNING DURING CONSTRUCTION OF PATHWAY AND ROADWAY.



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

APPROVED: *William J. ...* DATE: 8/13/82
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: *William J. ...* DATE: 8/13/82
CHIEF, BUREAU OF ENGINEERING

OWNER & DEVELOPER
HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS
ELLCOTT CITY, MARYLAND

PROJECT TITLE
CAPITAL PROJECT T-8-7109
SAINT JOHN'S LANE @ BRINKLEIGH DR.
ROAD IMPROVEMENTS

SCALE: AS SHOWN DATE: MAY 4, 1982 DWG NO: 3 OF 3
DES: T. FISHER DRN: C. SCHAEFER CHK: E. ...

FISHER, COLLINS AND CARTER, II, C.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21041

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
William J. ... DATE: 8/13/82
U.S. SOIL CONSERVATION SERVICE

APPROVED: *Elizabeth Anderson Collins* DATE: 8/13/82
CHIEF, ROADS, BRIDGES & STORM DRAINAGE

APPROVED: *William J. ...* DATE: 8/13/82
DIRECTOR OF PUBLIC WORKS

APPROVED: *William J. ...* DATE: 8/13/82
CHIEF, BUREAU OF HIGHWAYS