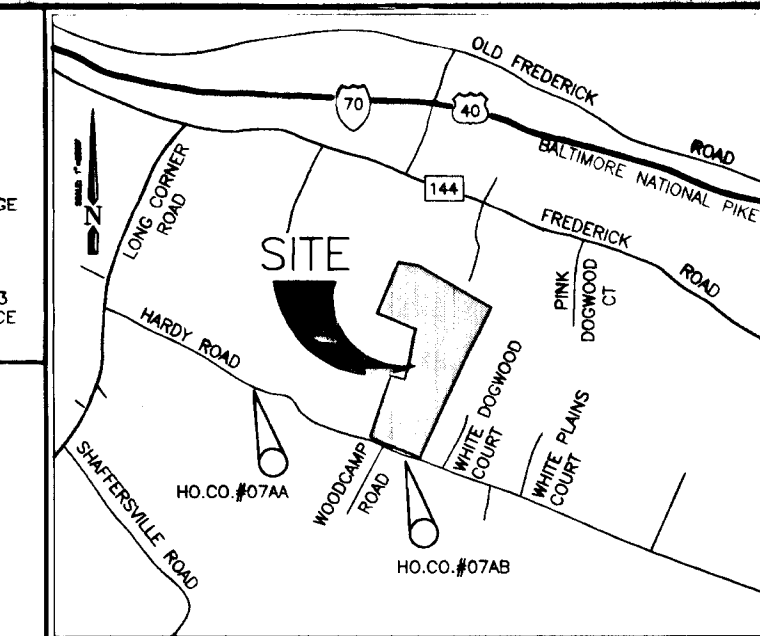


STRUCTURE SCHEDULE					
NO.	TYPE	STATION	OFFSET FROM	TOP ELEVATION	HOWARD COUNTY STANDARD
E1	21" CONC. END SECTION	0+17.44	4.20' LT	N/A	SD-5.51
E2	18" CONC. END SECTION	0+24.38	4.77' LT	N/A	SD-5.51
E3	15" CONC. END SECTION	0+26.19	4.92' LT	N/A	SD-5.51
M1	SHALLOW MANHOLE	0+16.88	4.36' LT	730.79	G-5.12

CENTERLINE CONTROL DATA			
ROAD	STATION	NORTH	EAST
BRADFORD LANE	0+00	610586.7284	1277401.4615
	5+08.65	611058.0359	1277593.2372

SHEET INDEX	
NO.	DESCRIPTION
1	ROAD PLAN
2	ROAD AND STORM DRAIN PROFILES
3	SEDIMENT CONTROL AND GRADING PLAN
4	DRAINAGE AREA MAP
5	LANDSCAPE PLAN

BENCH MARKS
 HORIZONTAL CONTROL
 CONCRETE MONUMENT 077A
 NO. 077A
 CONCRETE MONUMENT 078A
 NO. 078A
 CONCRETE MONUMENT 079A
 NO. 079A
 CONCRETE MONUMENT 080A
 NO. 080A
 CONCRETE MONUMENT 081A
 NO. 081A
 CONCRETE MONUMENT 082A
 NO. 082A
 CONCRETE MONUMENT 083A
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 CONCRETE MONUMENT 084A
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 NO. 099A
 CONCRETE MONUMENT 100A
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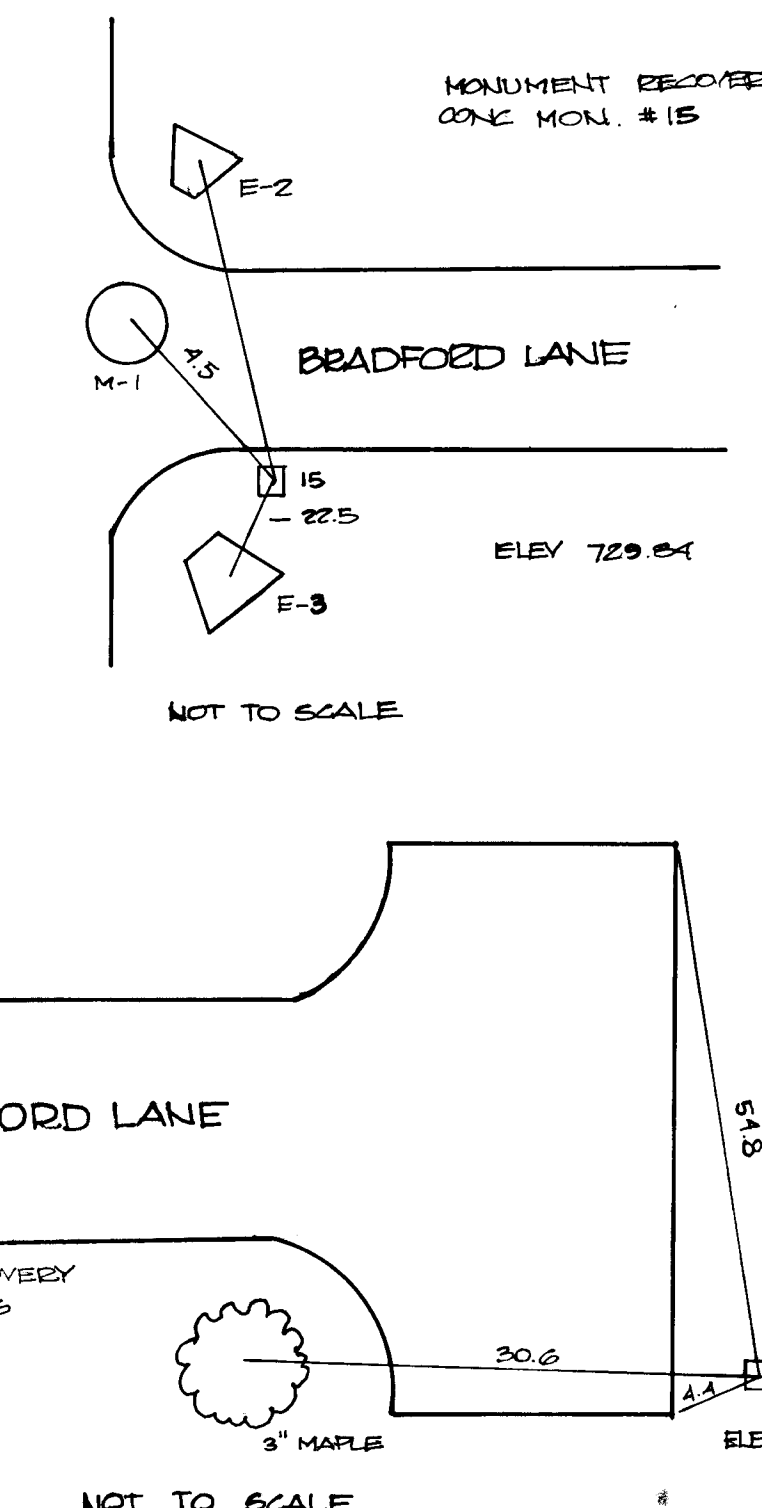
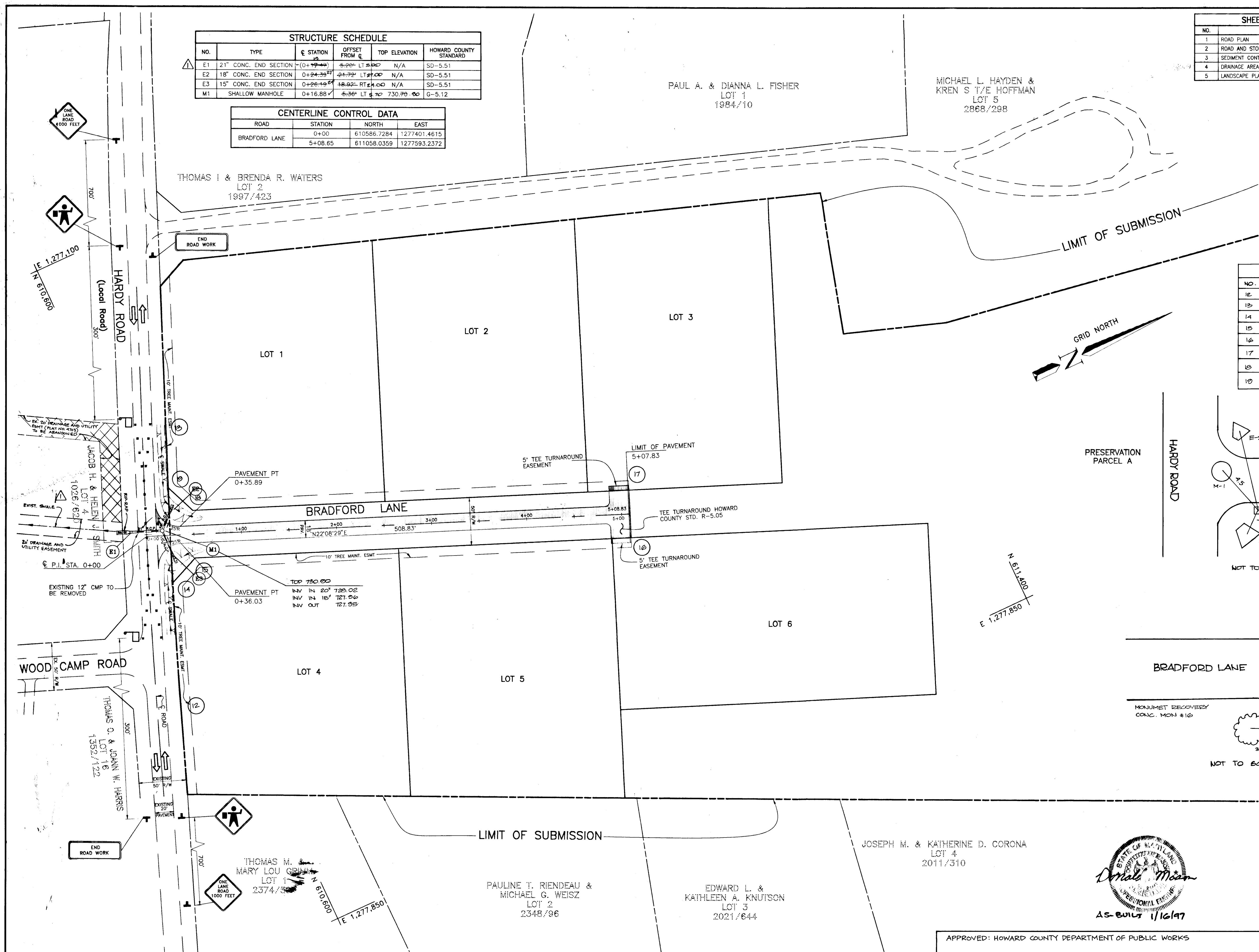


VICINITY MAP
 HOWARD COUNTY MAP PAGE 2 GRID H-8
 SCALE: 1" = 2000'

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST 24 HOURS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- PROJECT BACKGROUND:
 LOCATION - TAX MAP 7 - PARCELS 390
 ZONING - RC-DEO DISTRICT
 TOTAL TRACT AREA - 30.25 AC.
 NUMBER OF PROPOSED LOTS - 6 CLUSTER, 1 PRESERVATION
 DATE PRELIMINARY PLAN APPROVED: 5/5/95
 DPZ REFERENCE # - SP-95-05 (HOUGH PROPERTY)
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- TOPOGRAPHY TAKEN FROM FIELD RUN SURVEY BY TSA GROUP, INC. DATED 1/95. CONTOUR INTERVAL IS 2 FEET.
- HOWARD COUNTY MONUMENTS 077A AND 078A USED FOR HORIZONTAL DATUM. (NAD 83). MONUMENTS 3827001 USED FOR VERTICAL DATUM. (NAD 29).
- STREET LIGHTS ARE NOT REQUIRED FOR THIS SITE.
- WATER AND SEWER SERVICE FOR THIS PROJECT SHALL BE PRIVATE. A WELL SHALL BE LOCATED ON EACH LOT IN ACCORDANCE WITH ALL HEALTH DEPT. STANDARDS. SEWER SERVICE SHALL BE PROVIDED BY INDIVIDUAL SEPTIC FIELDS AT A MINIMUM OF 10,000 S.F. PER LOT.
- A REQUEST HAS BEEN APPROVED BY THE DEPT. OF PUBLIC WORKS TO WAIVE THE STORMWATER MANAGEMENT REQUIREMENTS AS SPECIFIED IN SECTION 10.2.1.A OF THE HOWARD COUNTY DESIGN MANUAL VOLUME 1 - STORM DRAINAGE BASED ON THE "GUIDELINES FOR STORMWATER MANAGEMENT IN CLUSTERED SUBDIVISIONS", AUGUST 1993. A REQUEST TO DPW FOR FEE-IN-LIEU OF STORMWATER MANAGEMENT FOR THE PROPOSED ROADWAY HAS BEEN APPROVED.
- WATER QUALITY TREATMENT FOR THE PROPOSED ROAD IS PROVIDED VEGETATIVE BUFFERS.
- 100 YEAR FLOODPLAIN PER PLAT No. 10510 (8236 & 8237).
- WETLANDS DELINEATION PROVIDED BY ECO-SCIENCE, INC. NOVEMBER 1994.
- FOREST CONSERVATION PLAN PROVIDED BY ECO-SCIENCE, INC., APPROVED 5-5-95.
- APPO TRAFFIC STUDY PROVIDED BY LEE CUNNINGHAM AND ASSOCIATES, INC., APPROVED 5-5-95.
- NOISE STUDY NOT REQUIRED FOR THIS PROJECT.
- A REQUEST HAS BEEN APPROVED BY THE DEPT. OF PUBLIC WORKS TO WAIVE THE MINIMUM 250' INTERSECTION SPACING REQUIREMENT PER SECTION 2.3.2.A AND TABLE 2.04 OF THE DESIGN MANUAL VOLUME III ROADS AND BRIDGES.
- A TEE TURNAROUND ROADWAY IS PROPOSED IN ACCORDANCE WITH SECTION 2.3.2.B OF THE DESIGN MANUAL VOLUME III. LOTS 2-7 SHALL ACCESS THE PROPOSED ROADWAY, LOT 1 SHALL ACCESS HARDY ROAD.
- UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLANDS, STREAM BUFFERS OR FOREST CONSERVATION AREAS.
- ALL ROAD FILLS SHALL BE COMPACTED TO 95% AS DETERMINED BY MSHTO T-180.
- TRAFFIC SHALL BE MAINTAINED ON HARDY ROAD DURING STORM DRAIN CONSTRUCTION.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS FOR SECTION 16.1200 OF THE HOWARD COUNTY CODE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- ALL STORM DRAIN PIPE SHALL BE CLASS 4 REINFORCED CONCRETE.

RIGHT-OF-WAY		
NO.	DESC.	ELEV.
12	REBAR & CAP	730.11
13	REBAR & CAP	730.08
14	REBAR & CAP	729.00
15	CON. MON.	729.84
16	CON. MON.	730.25
17	REBAR & CAP	730.10
18	REBAR & CAP	729.98
19	REBAR & CAP	730.14



- TRAFFIC CONTROL GENERAL NOTES**
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL AT ALL TIMES DURING THE ROADWAY CONSTRUCTION.
 - AT A MINIMUM, ONE LANE OF TRAFFIC MUST BE MAINTAINED DURING THE CONSTRUCTION OF 21" R.C.P. STORM DRAIN WITHIN THE EXISTING ROADWAY. (SEE NOTE 4) NO OPEN TRENCH SHALL BE PERMITTED BETWEEN 4 PM AND 9 AM. NO OPEN TRENCH SHALL BE PERMITTED WITH OUT COUNTY INSPECTOR PRESENT.
 - THE PLAN AS SHOWN IS A MINIMUM REQUIREMENT FOR TRAFFIC CONTROL. ADDITIONAL CONTROL DEVICES SHALL BE PLACED AT THE EXPENSE OF THE CONTRACTOR, AS DIRECTED BY THE COUNTY INSPECTORS.
 - TWO 10' WIDE LANES OF TRAFFIC ARE TO BE MAINTAINED ON HARDY ROAD BETWEEN 4 PM AND 9 AM.
 - ALL TRAFFIC CONTROL SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

LEGEND:	
REFLECTORIZED TRAFFIC CONTROL DRUMS (CHANNELIZING DEVICES)	■
SIGN SUPPORT	—
SIGN FACE	—
DIRECTION OF TRAFFIC (AT ALL TIMES)	→
FLAGGER	□

1777

JOSEPH M. & KATHERINE D. CORONA
 LOT 4
 2011/310

PAULINE T. RRENDEAU & MICHAEL G. WEISZ
 LOT 2
 2348/96

EDWARD L. & KATHLEEN A. KNUTSON
 LOT 3
 2021/644



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels 10-16-95
 CHIEF, BUREAU OF HIGHWAYS 15 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Jim Summers 10/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 1A DATE

Mike Dammer 10/24/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

NO.	DATE	REVISION
1	8-2-96	RELOCATE DRAINAGE ESMT ON LOT 4 WOODCAMP PARR, REVISE STORM DRAIN OUTFALL

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 485-8108

OWNER/DEVELOPER: WILLIAM & LINDA HOUGH
 17383 HARDY ROAD
 Mt. AIRY, MARYLAND 21771

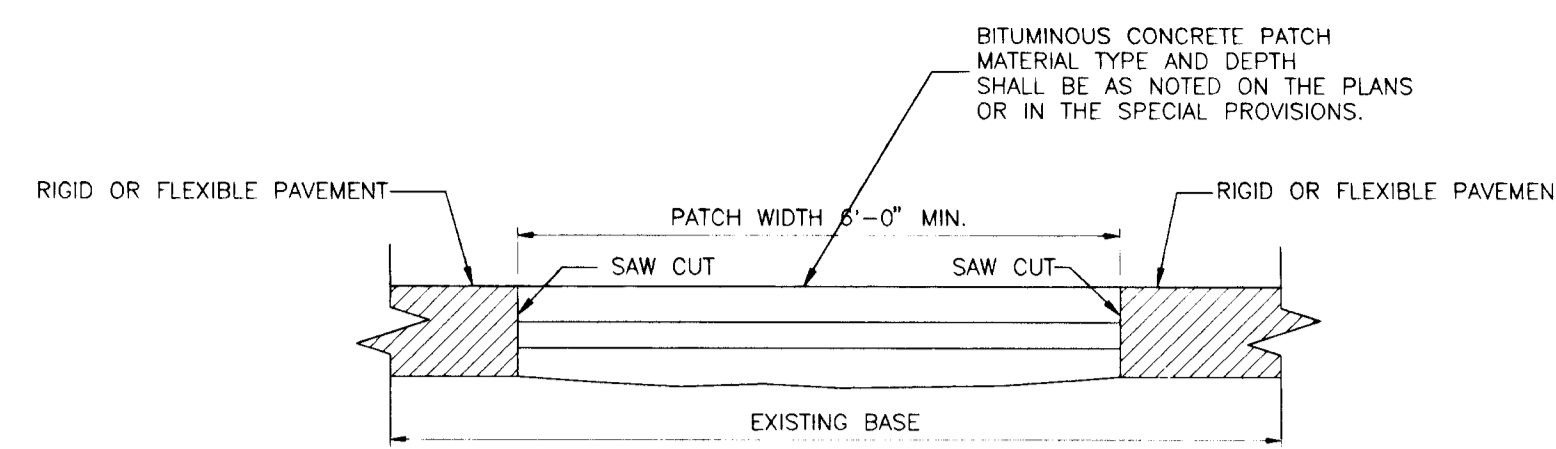
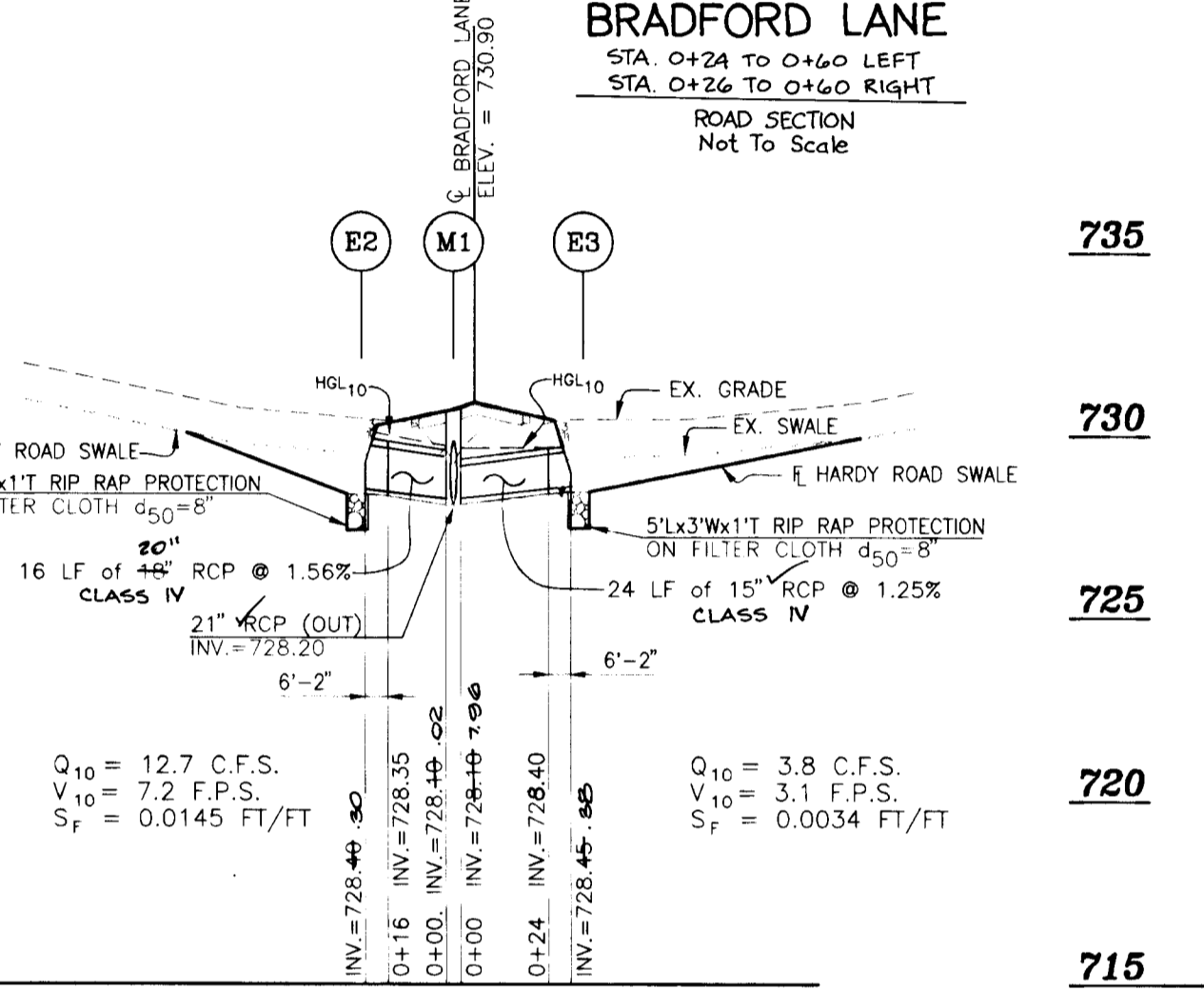
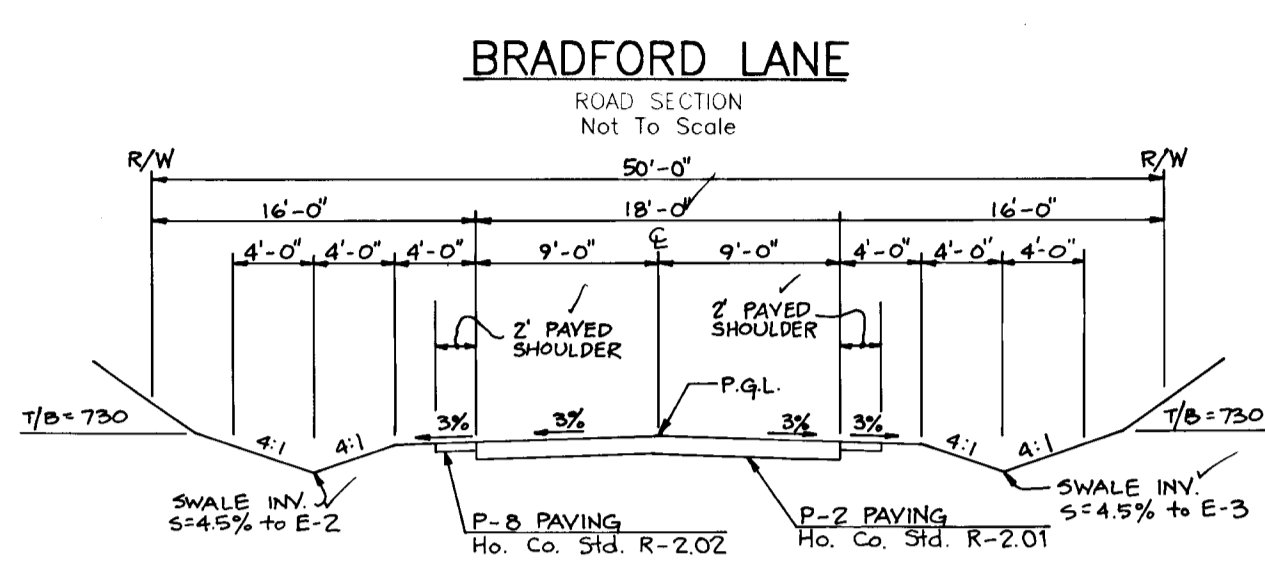
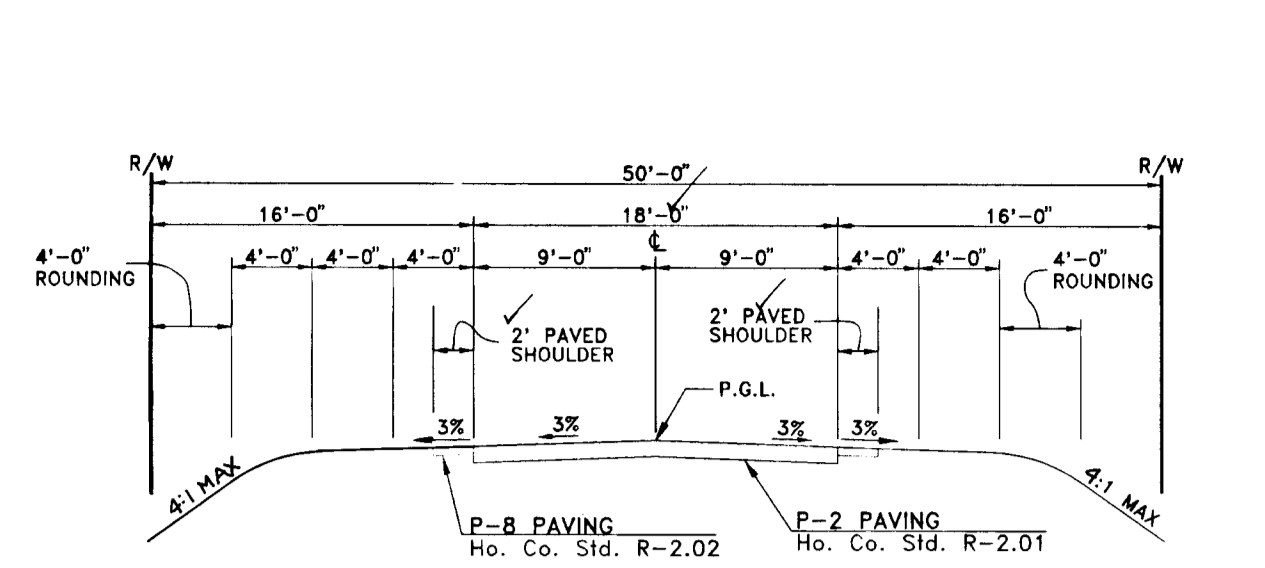
PROJECT: **STELLAS CHOICE**
 LOTS 1 thru 6 and PARCEL A

LOCATION: TAX MAP 7 - PARCEL 390
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **ROAD PLAN**

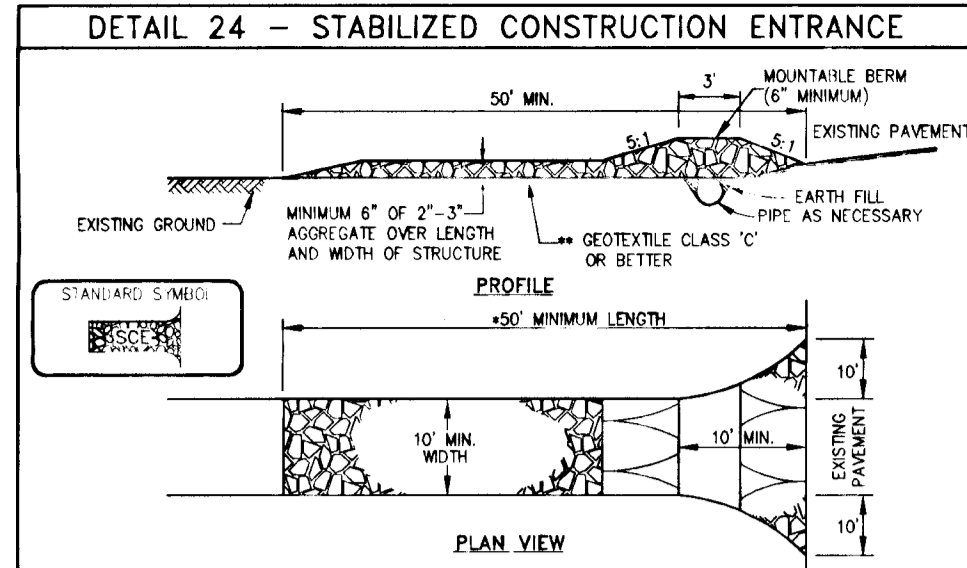
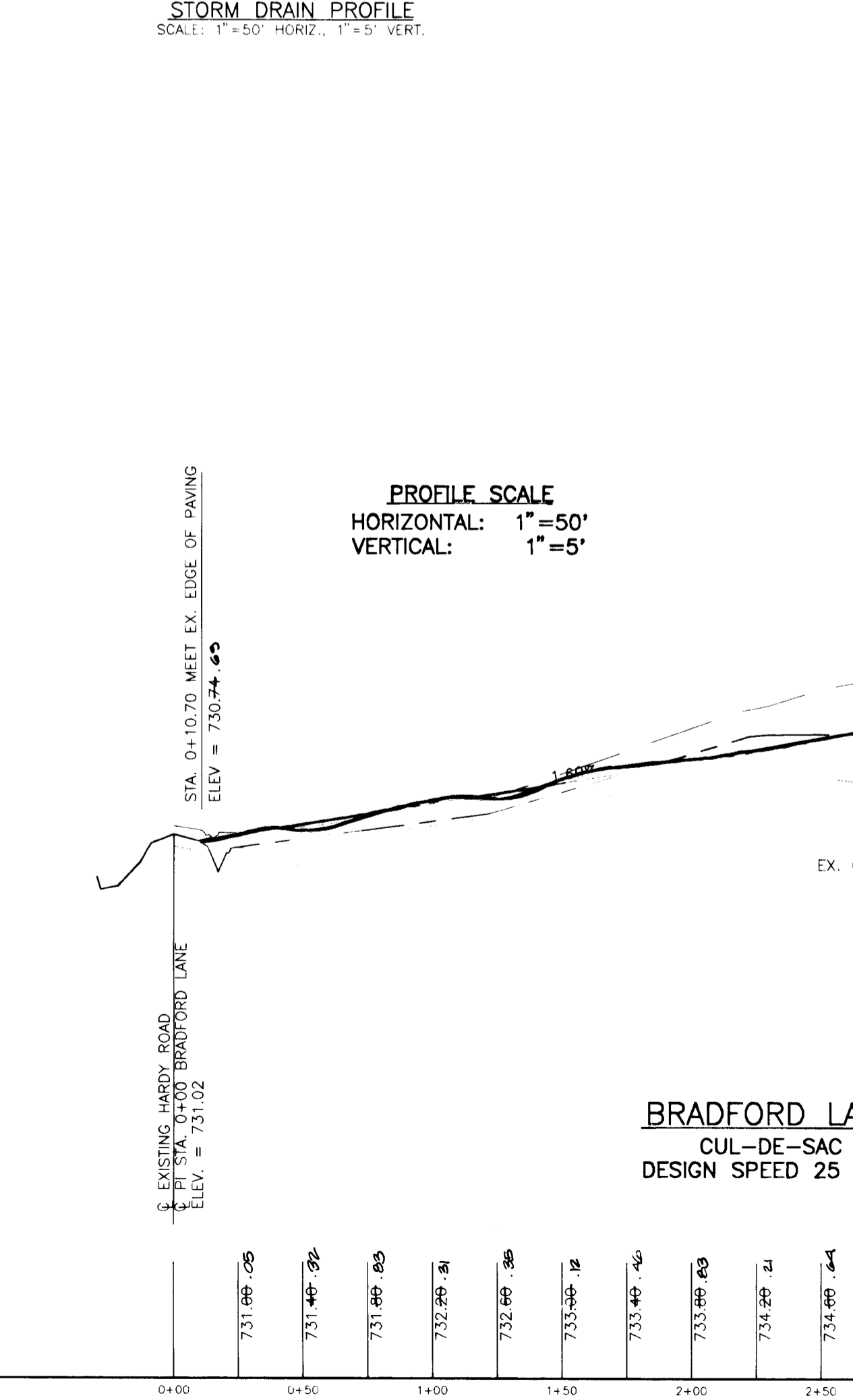
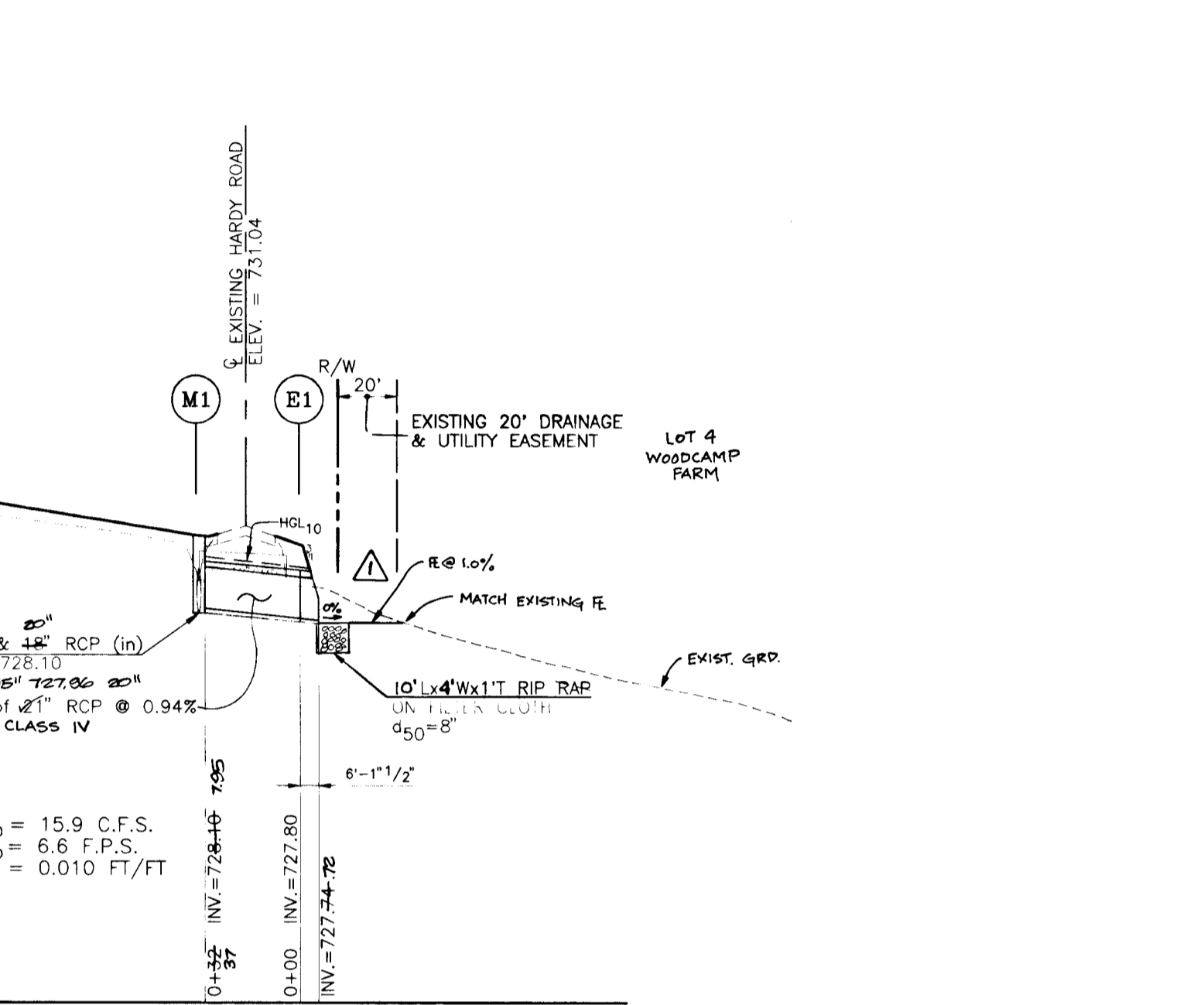
DATE: JUNE 1995
 07/19/1995 PROJECT NO. 0696

Design: JME Draft: MBB SCALE: 1"=50' DRAWING 1 OF 5

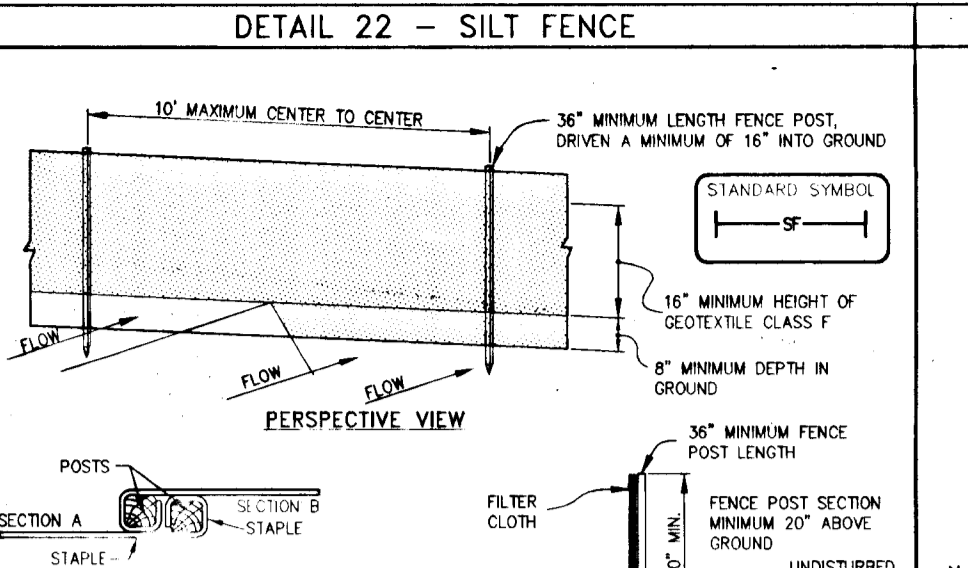


- REFER TO SECTION 405 OF THE SPECIFICATIONS FOR FLEXIBLE PAVEMENT AND TO SECTION 503 OF THE SPECIFICATIONS FOR RIGID PAVEMENT.
- TACK COAT TO BE APPLIED TO THE PATCH. APPLY EVENLY WITH PRESSURIZED SPRAY WAND.
- RIGID PAVEMENT MAY BE PATCHED USING FLEXIBLE PAVEMENT AS A TEMPORARY PATCH ONLY. REFER TO APPLICABLE PLAN AND REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT TYPE I AND TYPE II REPAIR STANDARDS FOR PERMANENT REPAIRS. TRANSVERSE SURFACES OF THE PATCH SHALL BE CLEANED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING THE PERMANENT CONCRETE PATCH.
- PERMANENT PATCHES FOR FLEXIBLE PAVEMENTS SHALL BE MADE USING BITUMINOUS CONCRETE.

RIGID OR FLEXIBLE PAVEMENT REPAIR DETAIL
NOT TO SCALE



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



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.50 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
- | | | |
|----------------------|---|----------------|
| Tensile Strength | 50 lbs/in (min.) | Test: MSMT 509 |
| Tensile Modulus | 20 lbs/in (min.) | Test: MSMT 509 |
| Flow Rate | 0.3 gal ft ² / minute (max.) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 327 |
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE DESIGN CRITERIA

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL. REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, Dikes, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 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 FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDINGS (SEC. 50) AND MULCHING (SEC. 42) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	30.25 ACRES
AREA TO BE ROOFED OR PAVED	0.22 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.84 ACRES
TOTAL CUT	500 CU. YDS.
TOTAL FILL	500 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	0 CU. YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL, BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TEMPORARY SEEDBED 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 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH 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 LBS/1000 SQ FT) OF UNROTTED 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 EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

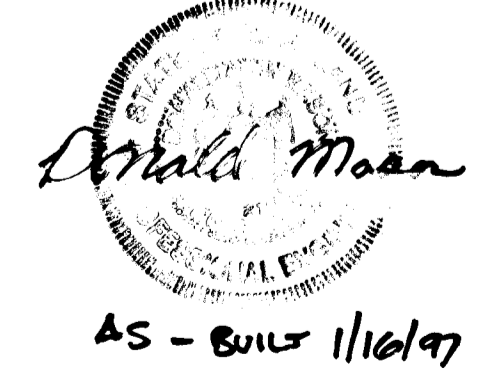
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDBED 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 LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0-0 UREAFORM FERTILIZER (8 LBS/1000 SQ FT).
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (14 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH 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 LBS/1000 SQ FT) OF UNROTTED 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 EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDBED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

William Dale Hough 6/14/95
DEVELOPER - WILLIAM DALE HOUGH DATE

BY THE ENGINEER:

"I/WE CERTIFY THAT THIS PLAN FOR 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 COUNTY SEDIMENT CONTROL DISTRICT."

John M. Elorriaga 6/14/95
ENGINEER - JOHN M. ELORRIAGA, P.E. # 16891 DATE

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

Patricia Engle 9/21/95
U.S. SOIL CONSERVATION DISTRICT DATE

John R. Rabinow 9/21/95
HOWARD COUNTY SEDIMENT CONTROL DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Savelle 10-16-95
CHIEF, BUREAU OF HIGHWAYS HS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Anna Jannetty 10/28/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH JA DATE

Mark M. Cummings 10/24/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

NO	DATE	REVISION
Δ	8-2-96	RELOCATE DRAINAGE ESM ON LOT 4 WOODCAMP FARM, REVISE STORM DRAIN OUTFALL.

TSA GROUP, INC.
planning • architecture • engineering
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6105

John Jannetty

OWNER/DEVELOPER: WILLIAM & LINDA HOUGH
17520 HARDY ROAD
Mt. AIRY, MARYLAND 21771

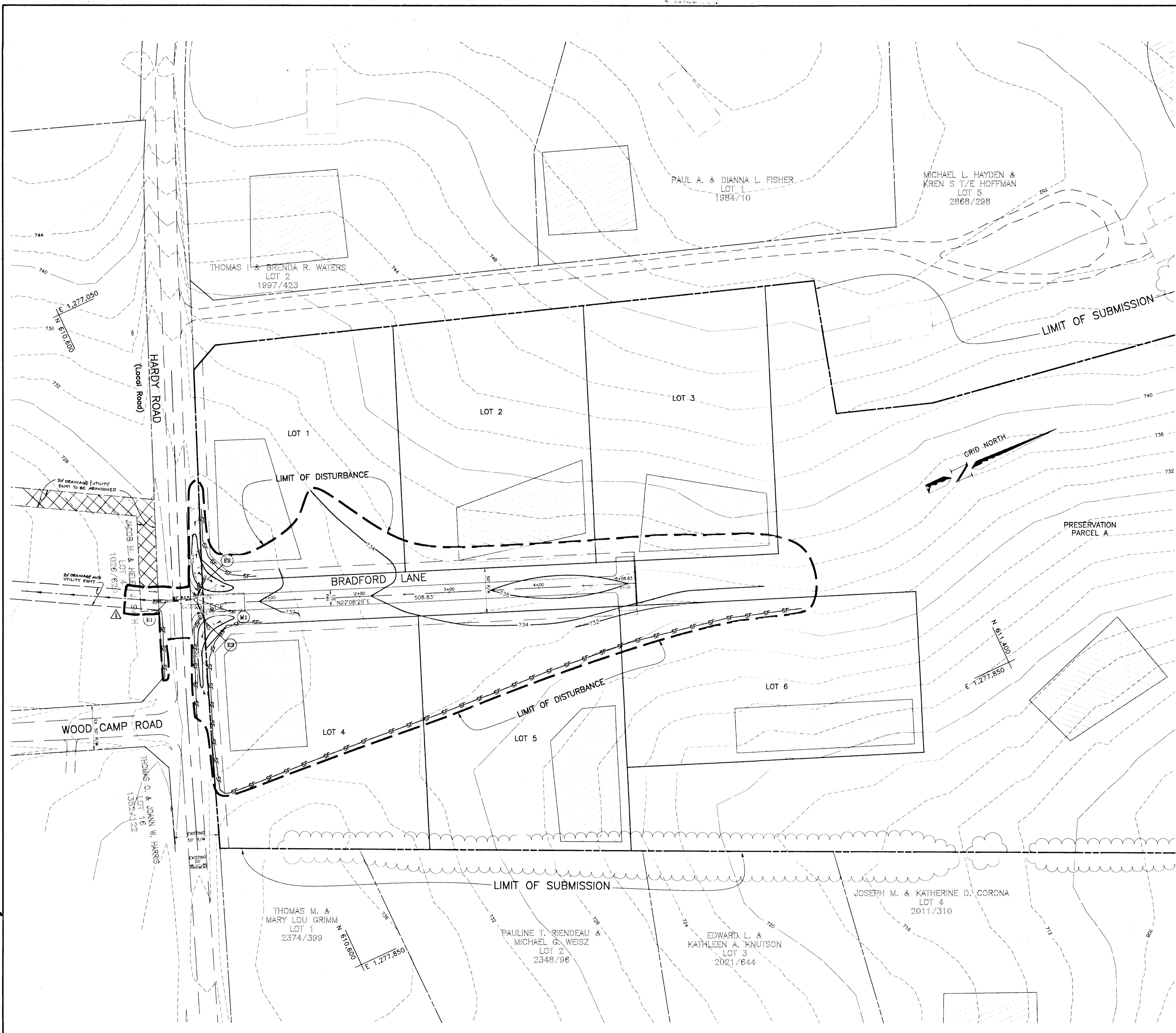
PROJECT: STELLAS CHOICE
LOT 1 thru 6 and PARCEL A

LOCATION: TAX MAP 7 - PARCEL 390
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: ROAD AND STORM DRAIN PROFILES,
SEDIMENT CONTROL DETAILS AND DETAILS

DATE: JUNE 1995
5/27/95 PROJECT NO. 0696

Design: JME Draft: MBB SCALE: AS SHOWN DRAWING 2 OF 5



LEGEND

- EXISTING CONTOURS
- WETLAND LIMIT
- 100 YEAR FLOODPLAIN
- EXISTING WOODLINE
- CENTERLINE EXIST. STREAM
- EXISTING STRUCTURE
- LIMIT OF DISTURBANCE
- PROPOSED SEPTIC FIELD
- EXISTING SEPTIC FIELD
- SCE
- SF

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTING ENTRANCE AND SILT FENCE.
3. GRADE ROADWAY TO SUBGRADE. TEMPORARY STABILIZATION.
4. INSTALL TRAFFIC CONTROL DEVICES PER TRAFFIC CONTROL DETAILS AND NOTES.
5. CONSTRUCT STORM DRAIN.
6. CONSTRUCT ROADWAY.
7. FINAL GRADE SITE AND PERMANENTLY STABILIZE.
8. UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES.
9. LANDSCAPE.

BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
William Dale Hough 6/14/95
 DEVELOPER - WILLIAM DALE HOUGH DATE

BY THE ENGINEER:
 "I/WE CERTIFY THAT THIS PLAN FOR 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."
John M. Elorriaga 6/12/95
 ENGINEER - JOHN M. ELORRIAGA, P.E. # 16891 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Patricia Engler 9/21/95
 US SOIL CONSERVATION DISTRICT DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Roberts 9/21/95
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
Andrew M. Daneker 10-16-95
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Jim Manning 10/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

Mike Dammann 10/24/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

NO	DATE	REVISION
1	B-2-96	RELOCATE DRAINAGE BSMT ON LOT 4 WOODCAMP FARM, REVISE STORM DRAIN OUTFALL

TSA GROUP, INC.
 planning • architecture • engineering
 8680 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6105
John M. Elorriaga

OWNER/DEVELOPER: WILLIAM & LINDA HOUGH 17382 HARDY ROAD MT. AIRY, MARYLAND 21771	PROJECT: STELLAS CHOICE LOTS 1 thru 6 and PARCEL A
LOCATION: TAX MAP 7 - PARCEL 390 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	TITLE: SEDIMENT CONTROL & GRADING PLAN
DATE: JUNE 1995 Sept. 12, 1995	PROJECT NO. 0696
Design: JME	Draft: MBB
SCALE: 1"=50'	DRAWING 3 OF 5

STORMWATER RUNOFF TOTAL (10 year)

PT	D.A.	C	T.C.	I ₁₀	Q ₁₀
E-2	8.43 Ac.	0.21	8 Min.	7.2 in/hr	12.7 CFS
E-3	2.09 Ac.	0.21	5 Min.	8.6 in/hr	3.8 CFS
M-1	10.52 Ac.	0.21	8 Min.	7.2 in/hr	15.9 CFS

MAP SYMBOL	SOIL TYPE	MAPPING UNIT
ChB2	B	CHESTER SILT LOAM - 3 TO 8 PERCENT SLOPES - MODERATELY ERODED
CuB	B	COMUS SILT LOAM - LOCAL ALLUVIUM - 3 TO 8 PERCENT SLOPES
GIB2	B	GLENELG LOAM - 3 TO 8 PERCENT SLOPES - MODERATELY ERODED
GIC2	B	GLENELG LOAM - 8 TO 15 PERCENT SLOPES - MODERATELY ERODED
GnA	C	GLENVILLE SILT LOAM - 0 TO 3 PERCENT SLOPES

* INDICATES HYDRIC SOILS
SOILS MAP NOS. 6,7,12 & 13

LEGEND

- EXISTING CONTOURS
- WETLAND LIMIT
- 100 YEAR FLOODPLAIN
- EXISTING WOODS LINE
- CENTERLINE EXIST. STREAM
- EXISTING DELINEATION
- EXISTING STRUCTURE
- DRAINAGE DIVIDE



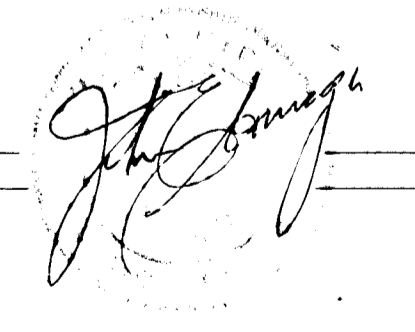
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Stephen M. Daniels 10/16/95
 CHIEF, BUREAU OF HIGHWAYS HS DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chris Stannard 10/25/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH JA DATE

Mark Drummond 10/24/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

NO	DATE	REVISION
1	8-2-96	RELOCATE DRAINAGE EIGHT ON LOT 4 WOODCAMP FARM, REVISE STORM DRAIN OUTFALL

TSA GROUP, INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6105



OWNER/DEVELOPER: WILLIAM DALE AND LINDA GALE HOUGH
 17382 HARDY ROAD
 MT. AIRY, MARYLAND 21771

PROJECT: **STELLAS CHOICE**
 LOTS 1 thru 6 and PARCEL A

LOCATION: TAX MAP 7 - PARCEL 390
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **DRAINAGE AREA MAP**

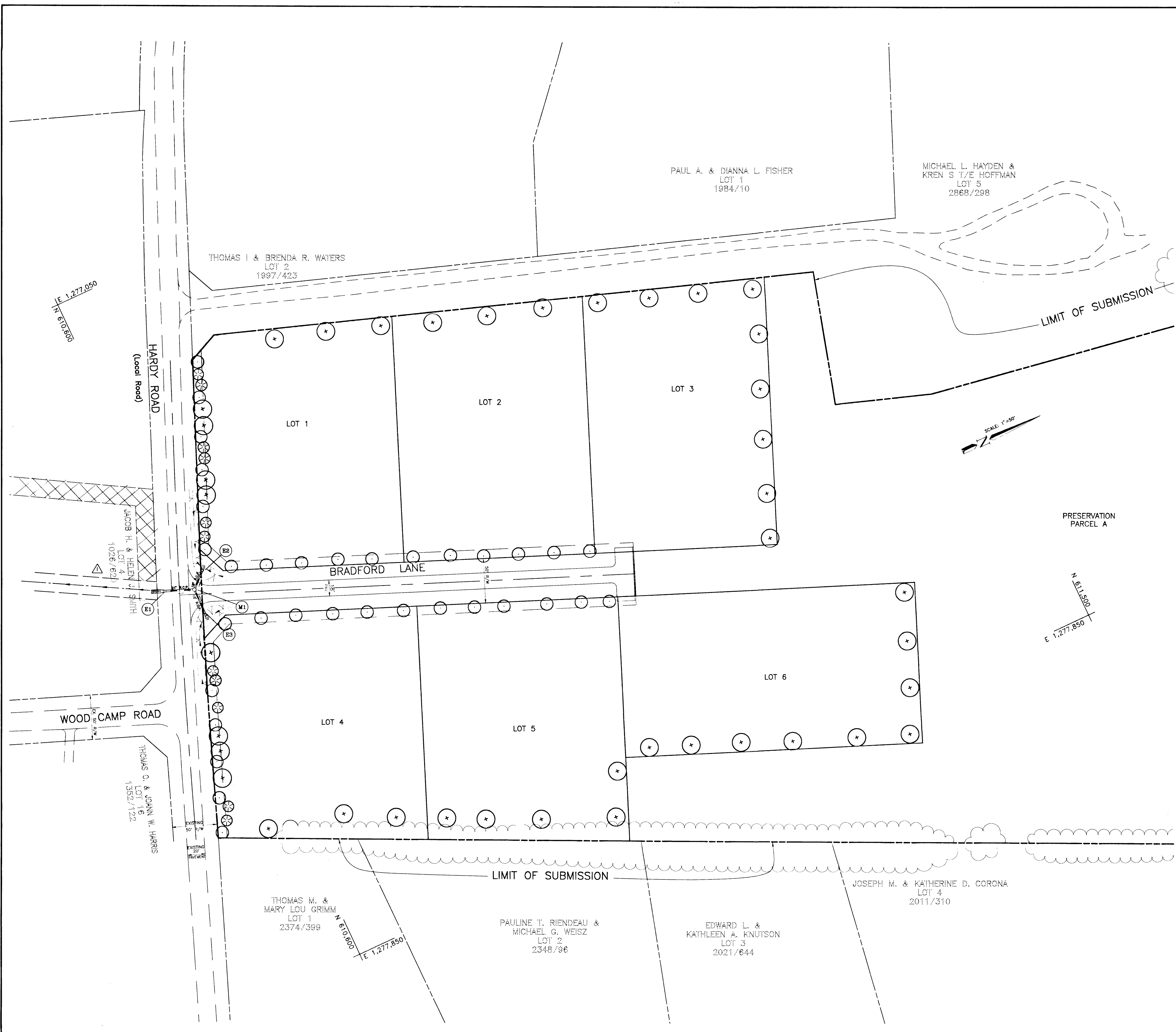
DATE: JUNE 1995
Sept. 13, 1995

PROJECT NO. 0696

SCALE: 1" = 100'

DRAWING 4 OF 5

1771



**SCHEDULE A
PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO	
	ROADWAYS	PERIMETER PROPERTIES
LANDSCAPE TYPE	TYPE B	TYPE A
LINEAR FEET OF ROAD WAY FRONTAGE/PERIMETER	440	1935
CREDIT FOR EXISTING VEGETATION	NO	NO
CREDIT FOR WALL, FENCE OR BERM	NO	NO
LINEAR FEET OF PLANTING REQUIRED	440	1935
NUMBER OF PLANTS REQUIRED		
SHADE TREES	8	32
EVERGREEN TREES	11	0
SHRUBS	0	0

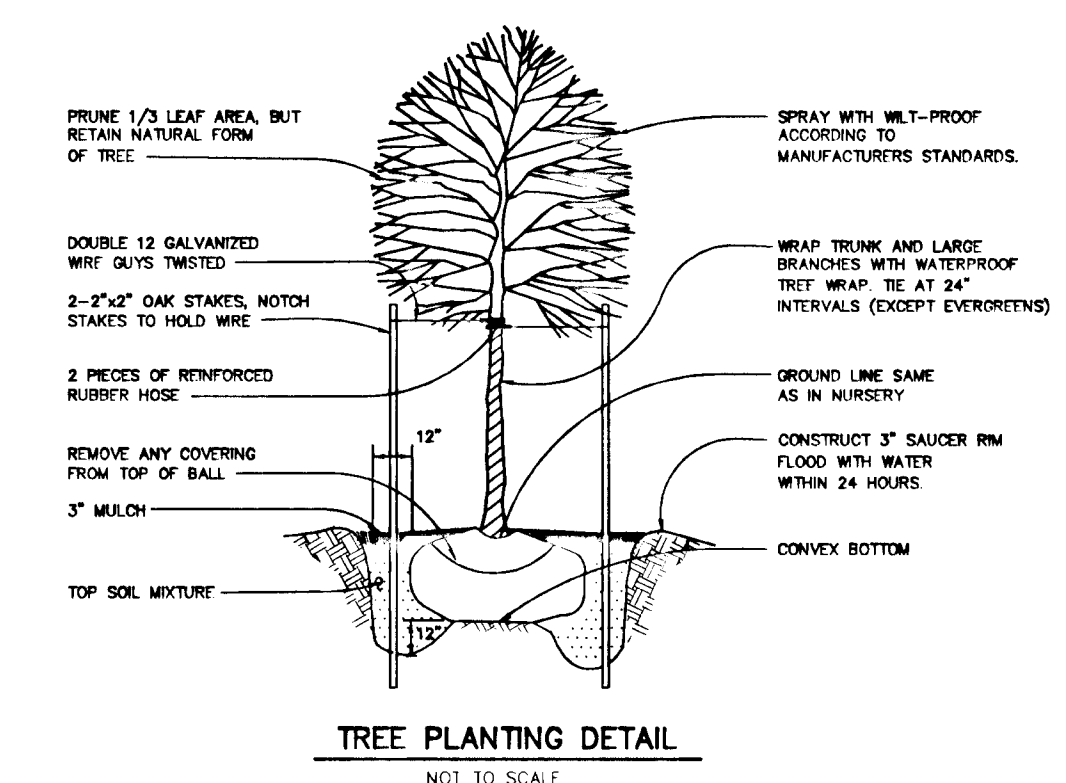
SCHEDULES B,C, AND D DO NOT APPLY

LANDSCAPING NOTES:

1. PERIMETER LANDSCAPING AND STREET TREE PLANTING SHALL BE PROVIDED BY THE DEVELOPER.

PLANT LIST KEY

SYMBOL	NAME	QUANTITY
○	RED MAPLE (ACER RUBRUM)	34 (STREET TREES)
⊕	RED OAK (QUERCUS RUBRA)	40
⊗	WHITE PINE (PINUS STROBUS)	11
TOTAL		85



FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 5100.00

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. ... 10-16-95
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Anna ... 10/26/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

... 10/24/95
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO	DATE	REVISION
1	8-2-96	RELOCATE DRAINAGE EIGHT ON LOT 4 WOODCAMP FARM, REVISE STORM DRAIN OUTFALL

TSA GROUP, INC.
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 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 465-6105

John ...

OWNER/DEVELOPER: WILLIAM & LINDA HOUGH
 17382 HARDY ROAD
 Mt. AIRY, MARYLAND 21771

PROJECT: **STELLAS CHOICE**
 LOTS 1 thru 6 and PARCEL A

LOCATION: TAX MAP 7 - PARCEL 390
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **LANDSCAPE PLAN**

DATE: JUNE 1995
 9/27/95

PROJECT NO. 0696

SCALE: 1"=50'

DRAWING 5 OF 5