

# SITE DEVELOPMENT PLAN

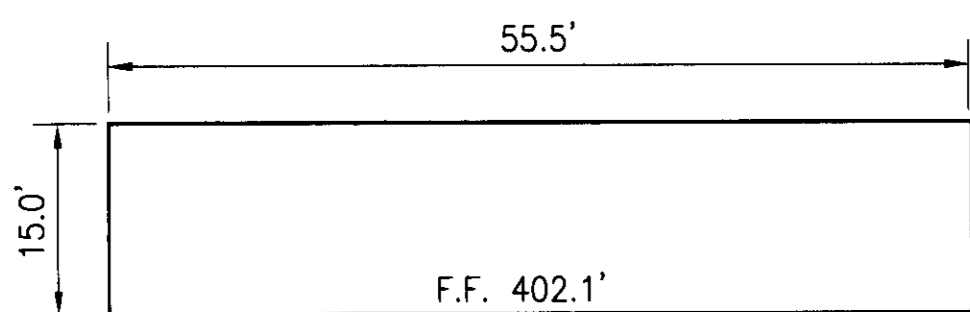
# PIZZERIA UNO

## AT LONG GATE CENTER PARCEL "P"

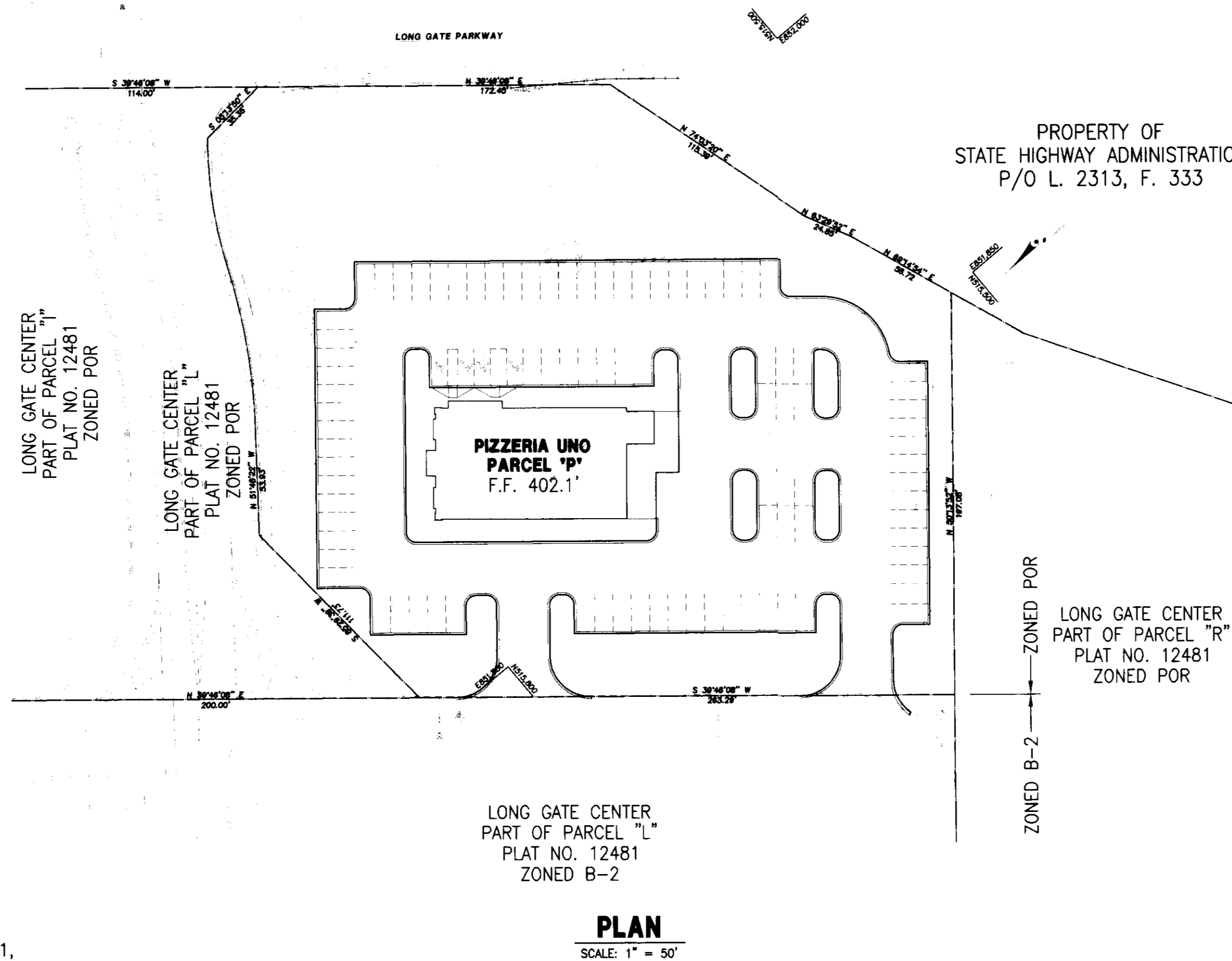
## HOWARD COUNTY, MARYLAND

### GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
4. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
5. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
6. THE EXISTING TOPOGRAPHY IS TAKEN FROM AN ON THE GROUND SURVEY WITH CONTOURS AT ONE-FOOT INTERVALS PREPARED BY BENGTSON DEBELL & ELKIN, LTD., DATED OCTOBER 25, 1996.
7. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 3043001-R AND 2943002 WERE USED FOR THIS PROJECT.
8. WATER IS PUBLIC PER CONTRACT NUMBER 24-3438-D.
9. SEWER IS PUBLIC PER CONTRACT NUMBER 24-3438-D. SEWER DRAINAGE AREA: 108 PUMPING STATION.
10. STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED BY AN EXISTING RETENTION FACILITY APPROVED UNDER SDP-95-62.
11. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
12. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
13. THERE IS NO ON-SITE 100 YEAR FLOODPLAIN.
14. THERE ARE NO ON-SITE WETLANDS.
15. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC. DATED APRIL 21, 1995 AND WAS APPROVED UNDER SDP-95-62.
16. THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY BENGTSON, DEBELL & ELKIN, LTD., DATED OCTOBER 25, 1996.
17. SUBJECT PROPERTY ZONED POR, PER OCTOBER 18, 1993 COMPREHENSIVE ZONING PLAN.
18. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
19. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO. SDP-95-62.
20. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
21. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
22. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
23. ALL STORM DRAIN PIPE BEDDING SHALL CONFIRM TO "TRENCH BEDDING DETAILS", DETAIL G2.01, VOLUME 4 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
24. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
25. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
26. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.



**BUILDING NORTHEAST ELEVATION**  
NO SCALE



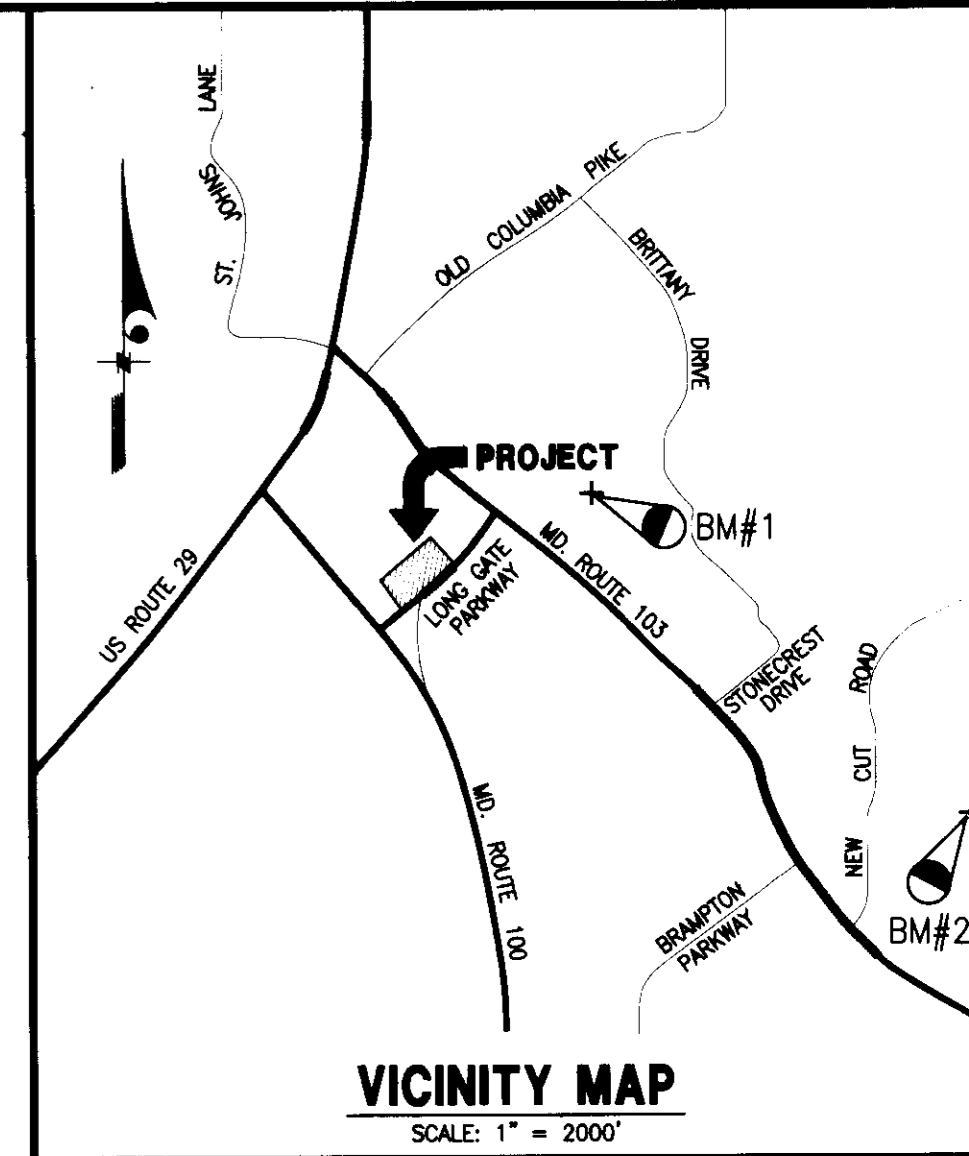
**PLAN**  
SCALE: 1" = 50'

BENCHMARKS	
BM # 1	STA3043001 ELEVATION 437.92 N516,549.55 E853,656.51 32' NORTH OF BG&E TOWER 276-A BEHIND SCHOOL GROUNDS.
BM # 2	STA2943002 N513,205.90 E857,478.69 LOCATED ON THE TRANSMISSION LINE 1700' ± NORTH OF INTERSECTION OF ROUTE 103 AND NEW CUT ROAD AND 1150' ± EAST OF NEW CUT ROAD.
BM # 3	ELEVATION 401.42 TOP FLANGE BOLT OF FIRE HYDRANT LOCATED NORTH OF THE TARGET DEPARTMENT STORE SITUATED IN THE LONG GATE SHOPPING CENTER. HYDRANT IS LOCATED APPROXIMATELY 50 FEET WEST AND 50 FEET NORTH OF THE NORTHEAST CORNER OF THE TARGET STOREFRONT. HYDRANT IS LOCATED IN THE CENTER OF AN ISLAND ON THE NORTH SIDE OF THE EXISTING DRIVE LANE.
BM # 4	ELEVATION 400.72 TOP FLANGE BOLT OF FIRE HYDRANT LOCATED NORTH OF THE SAFEWAY STORE SITUATED IN THE LONG GATE SHOPPING CENTER. APPROXIMATELY 120 FEET WEST AND 80 FEET NORTH OF THE NORTHEAST CORNER OF THE SAFEWAY STOREFRONT. HYDRANT IS LOCATED IN THE CENTER OF AN ISLAND ON THE NORTH SIDE OF THE EXISTING DRIVE LANE.

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN, SITE GRADING, DRAINAGE AND UTILITIES
3	STORM, SANITARY AND WATER PROFILES
4	DRAINAGE AREAS AND SEDIMENT CONTROL PLAN
5	LANDSCAPE PLAN
6	GENERAL NOTES AND DETAILS
7	DETAILS

SITE ANALYSIS	
Area of parcel	92,284SF = 2.119ACRE
Present zoning	POR
Proposed use	Sit-down restaurant
Building coverage	5395SF 6% of parcel
No. of parking spaces required at 14 Spaces / 1000 Sf.	76
No. of parking spaces provided	93 Including 4 Handicap spaces
Paved area	Parking lot 41580 SF Sidewalks 1935 SF Total 43515 SF 47% of parcel

SITE ADDRESS CHART					
Building			Street Address		
Parcel P			4470 Long Gate Parkway		
SUBDIVISION NAME LONG GATE CENTER		SECT./ AREA	PARCEL P		
PLAT # =	BLOCK	ZONING	TAX MAP NO.	ELECT. DIST	CENSUS TRACT
12481	24 (MAP 24) 6 (MAP 30)	POR	24/30	2ND	6023.02
WATER CODE F09			SEWER CODE 5750601		



**VICINITY MAP**  
SCALE: 1" = 2000'

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *James R. Beal* DATE: 6/12/97

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.

ENGINEER: *James R. Beal* DATE: 6/17/97

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

NATURAL RESOURCES CONSERVATION SERVICE DATE: \_\_\_\_\_

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

HOWARD SOIL CONSERVATION DISTRICT DATE: \_\_\_\_\_

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

DATE: 7/3/97

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *James S. Rutter* DATE: 7/1/97

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/30/97

CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 7/2/97

DATE	NO.	REVISION

OWNER: **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

DEVELOPER: **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

PROJECT: **LONG GATE CENTER PARCEL "P"  
PIZZERIA UNO RESTAURANT**

AREA: TAX MAPS # 24 & 30 PARCEL "P"  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: TITLE SHEET

**HNTB CORPORATION**  
ARCHITECTS ENGINEERS PLANNERS  
99 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

DATE: May 22, 1997

SDP 95-62, F97-77

DESIGNED BY: JRB

DRAWN BY: KAD

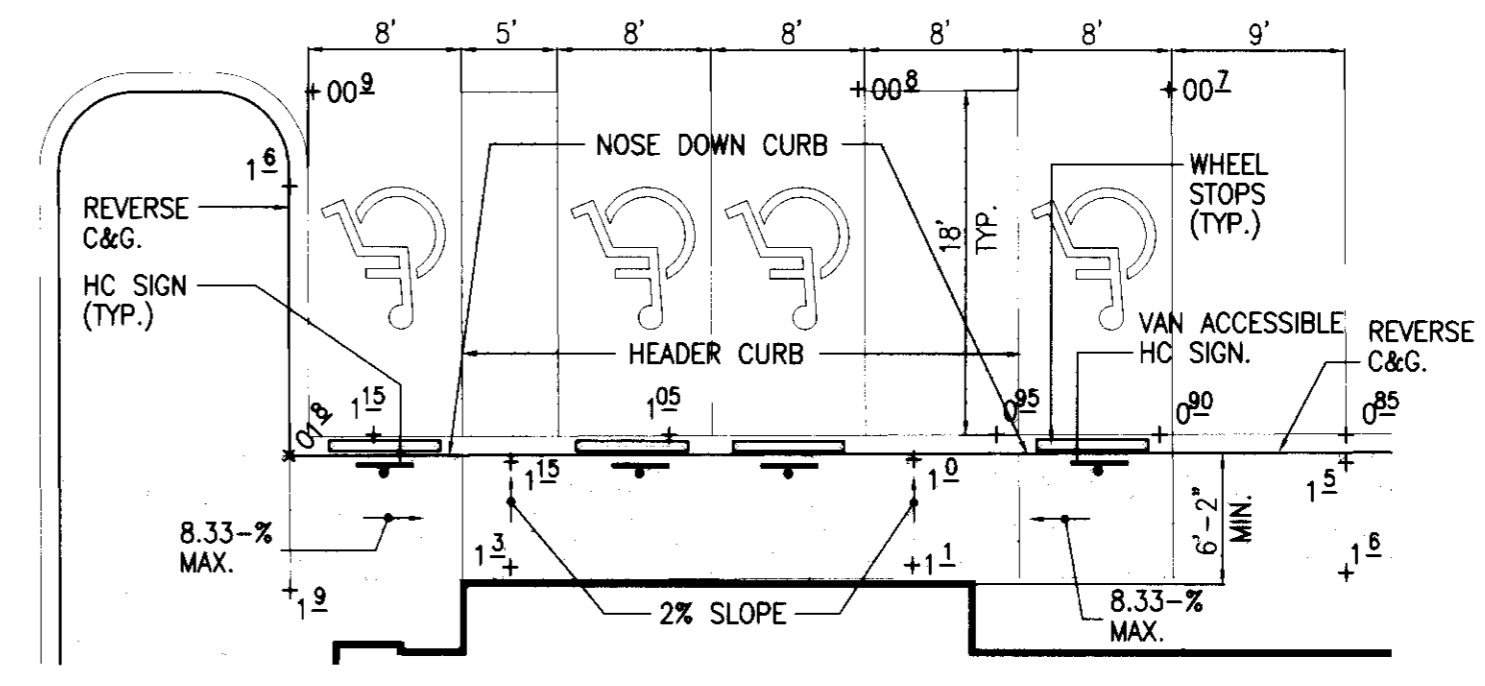
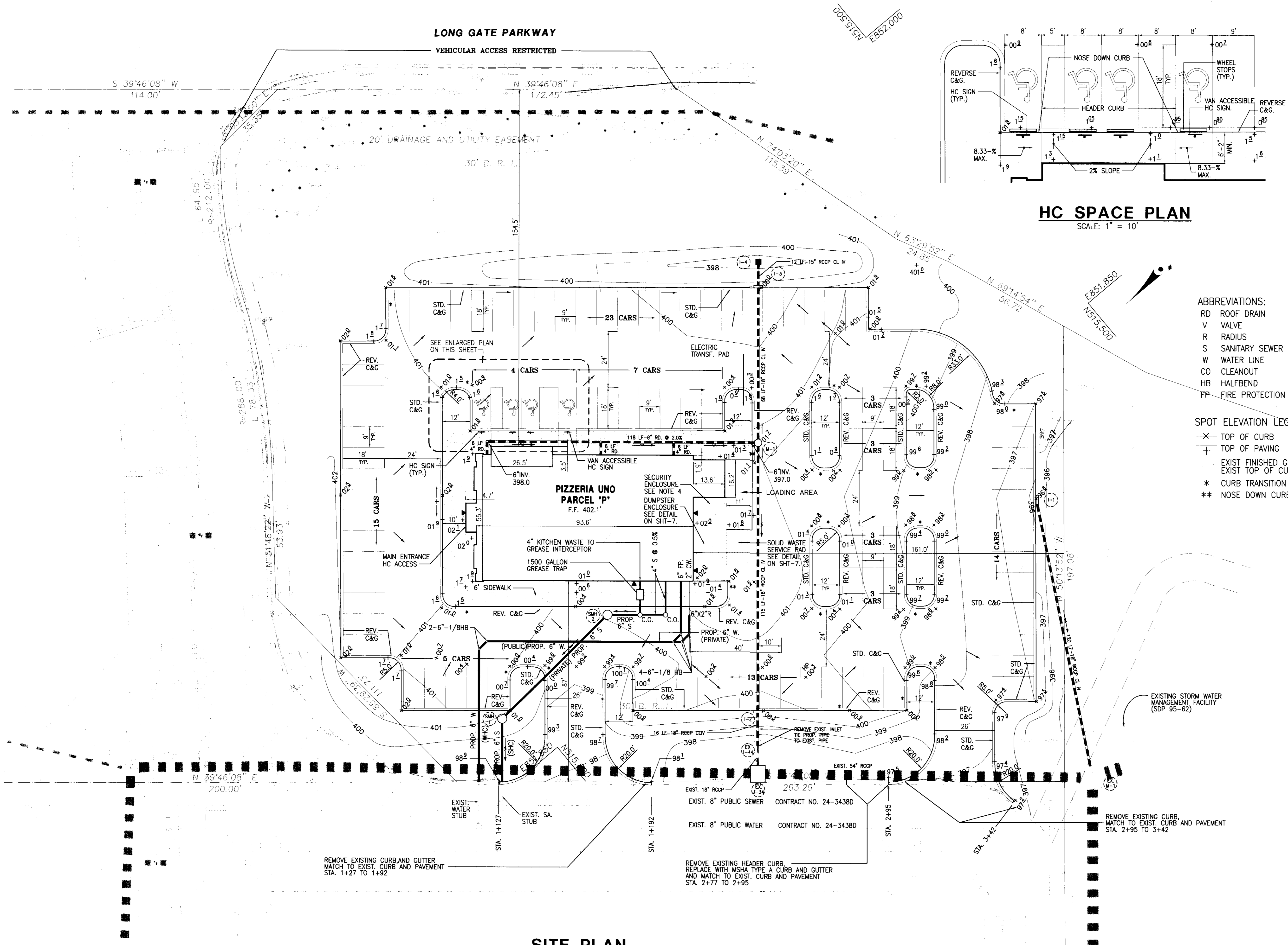
PROJECT NO: 27160

DATE: MAY 21, 1997

SCALE: AS SHOWN

DRAWING NO. \_\_\_\_\_ OF \_\_\_\_\_

JAMES R. BEAL #21888



**HC SPACE PLAN**  
SCALE: 1" = 10'

- ABBREVIATIONS:**
- RD ROOF DRAIN
  - V VALVE
  - R RADIUS
  - S SANITARY SEWER
  - W WATER LINE
  - CO CLEANOUT
  - HB HALFBEND
  - FP FIRE PROTECTION LINE

- SPOT ELEVATION LEGEND**
- ⊗ TOP OF CURB
  - ⊕ TOP OF PAVING
  - ⊖ EXIST FINISHED GRADE
  - ⊕ EXIST TOP OF CURB
  - \* CURB TRANSITION
  - \*\* NOSE DOWN CURB

**SITE PLAN**  
SCALE: 1" = 20'

- NOTES:**
1. ALL CURB RADIUS ARE 5' UNLESS OTHERWISE NOTED.
  2. ALL ONSITE ROADWAYS ARE PRIVATE.
  3. ALL PAVING IS P-2 UNLESS OTHERWISE NOTED.
  4. SECURITY ENCLOSURE PAVING AND GRADING PER ARCHITECT'S PLANS.
  5. DUMPSTER ENCLOSURE IS TO BE CONSTRUCTED WITH SAME MATERIAL AS BUILDING, WITH WOOD GATE IN FRONT. SEE ARCHITECTURAL PLANS FOR DETAILS.
  6. GREASE TRAP DETAILS TO BE PROVIDED WITH ARCHITECTURAL PLANS.
  7. BUILDING WILL HAVE AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
  8. WATER METER TO BE LOCATED OUTSIDE BUILDING.
  9. SHARED ACCESS EASEMENTS FOR PRIVATE ROADS RECORDED IN L. 3589, F.161.
  10. WATER METER IS INSIDE BUILDING. BUILDING IS FULLY SPRINKLERED.

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *Jesse Beery* 4/13/97 DATE

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.

ENGINEER: *Jane R. Beale* 6/17/97 DATE

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

NATURAL RESOURCES CONSERVATION SERVICE DATE

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

DATE

HOWARD SOIL CONSERVATION DISTRICT DATE

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

*George M. Boyd* 7/3/97 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James B. Beatty* 7/7/97 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 7/7/97 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

**OWNER** UNO RESTAURANT CORPORATION  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

**DEVELOPER** UNO RESTAURANT CORPORATION  
100 CHARLES PARK ROAD  
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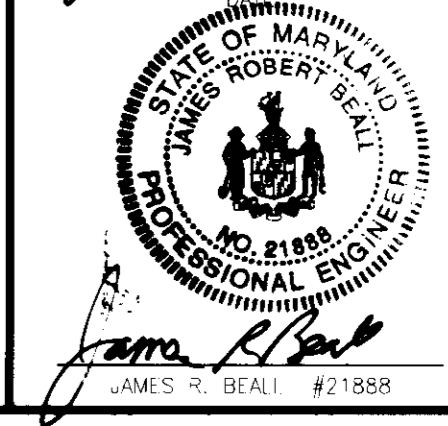
**PROJECT** LONG GATE CENTER PARCEL "P"  
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**AREA** TAX MAPS # 24 & 30 PARCEL "P"  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**TITLE** SITE PLAN, SITE GRADING,  
DRAINAGE AND UTILITIES

**HNTB CORPORATION**  
ARCHITECTS ENGINEERS PLANNERS  
99 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

Jan 17 1997  
SDP 95-62, F97-77  
DESIGNED BY: JRB  
DRAWN BY: KAD  
PROJECT NO: 27160  
DATE: MAY 2, 1997  
SCALE: 1" = 20'  
DRAWING NO. 2 OF 7





**SEDIMENT CONTROL NOTES**

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313 - 1855).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL AND REVISIONS THERETO.
3. 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 OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. 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.
6. SITE ANALYSIS:  

TOTAL AREA OF SITE	2.12	ACRES
AREA DISTURBED	1.52	ACRES
AREA TO BE ROOFED OR PAVED	1.11	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.41	ACRES
TOTAL CUT	87	CU. YARDS
TOTAL FILL	4008	CU. YARDS

 OFFSITE WASTE/BORROW AREA LOCATION: SEE NOTE 13 BELOW
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
9. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
10. CUT AND FILL QUANTITIES SHOWN UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES AND DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL. THEY DO NOT CONSIDER UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
11. 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.
12. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
13. BORROW SITE TO BE PRE-APPROVED BY THE SEDIMENT CONTROL INSPECTOR, OR IN CASE OF EXCESS MATERIAL, AN APPROVED SEDIMENT CONTROL PLAN WILL BE NEEDED TO DEPOSIT EXCESS OFF-SITE.
14. ANY REQUIRED BORROW MATERIAL WILL BE TAKEN FROM AND ANY EXCESS EXCAVATED MATERIAL WILL BE PLACED IN A SITE WITH AN APPROVED ACTIVE GRADING PERMIT.

**TEMPORARY SEEDING NOTES**

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

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

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1000 SQ. FT.)

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 (3.2 LBS. PER 1000 SQ. FT.). 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 LBS. PER 1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL. PER 1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**PERMANENT SEEDING NOTES**

THESE NOTES APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 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 UREAFORM FERTILIZER (9 LBS. PER 1000 SQ. FT.).

- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE OF DOLOMITIC LIMESTONE (92 LBS. PER 1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIOD MARCH 1 THRU APRIL 30 AND FROM AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1000 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 (0.05 LBS. PER 1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

- 1) 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING.
- 2) USE SOD.
- 3) SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL. PER 1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 347 GAL. PER ACRE (8 GAL. PER 1000 SQ. FT.) FOR ANCHORING.

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

**SEQUENCE OF CONSTRUCTION**

- 1) OBTAIN GRADING PERMIT.
- 2) INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND SUPER SILT FENCE. (2 DAYS).
- 3) ROUGH GRADE SITE. (10 DAYS).
- 4) AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS WITH INLET PROTECTION, WATER AND SEWER UTILITIES. (2 WEEKS)
- 5) INSTALL CURB AND GUTTER AND PAVE ROADWAYS. (2 WEEKS)
- 6) FINE GRADE SITE, STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES AS NECESSARY. (11 DAYS)
- 7) INSTALL STREET LIGHTS, LANDSCAPING, AND SIGNS AS REQUIRED. (5 DAYS)
- 8) UPON APPROVAL OF THE HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, REMOVAL ALL SEDIMENT CONTROL DEVICES AND STABILIZE ALL REMAINING AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (1 DAY)
- 9) DEVELOPER IS RESPONSIBLE FOR CLEANING AND REFURBISHING THE LOCAL STORMWATER MANAGEMENT POND OF ANY SEDIMENT ATTRIBUTED TO THIS PLAN.

**21.0 STANDARD AND SPECIFICATIONS**

**FOR TOPSOIL**

**DEFINITION**

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - I. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - II. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - III. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - IV. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
  - II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, OUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.

- II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

- I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- III. FOR SITE HAVING DISTURBED AREAS OVER 5 ACRES:
  - I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
    - A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
    - B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
    - C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
    - D. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

**IV. TOPSOIL APPLICATIONS**

I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.

II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.

III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" - 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

V. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:

I. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

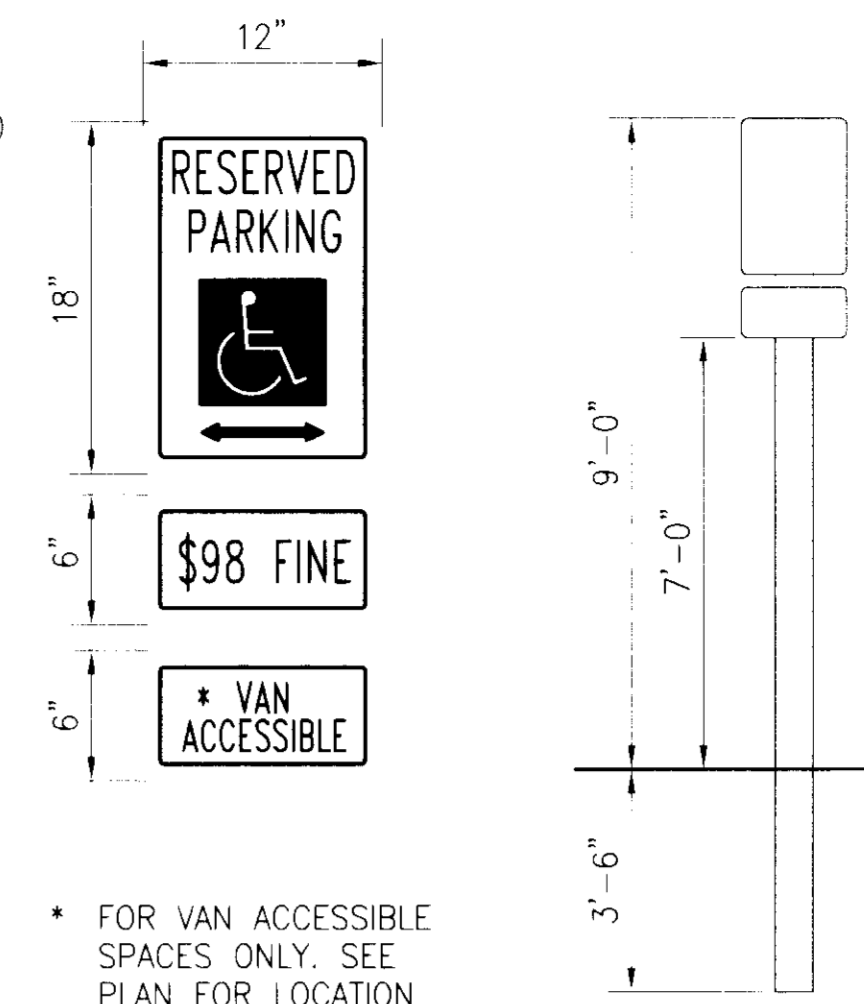
A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.

B. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.

II. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. 1.5 PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE. REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1. COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

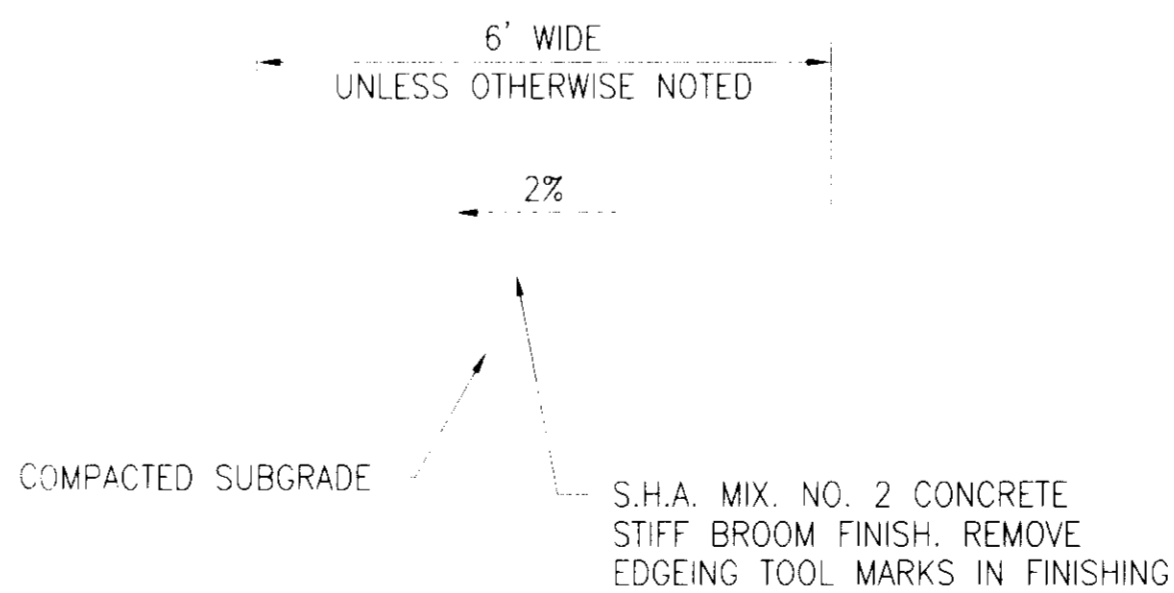


\* FOR VAN ACCESSIBLE SPACES ONLY. SEE PLAN FOR LOCATION

NOTE: DISTANCE FROM GROUND TO BOTTOM OF SIGN TO BE 7'-0"

COLOR: LEGEND AND BORDER - GREEN WHITE SYMBOLS ON BLUE BACKGROUND BACKGROUND - WHITE

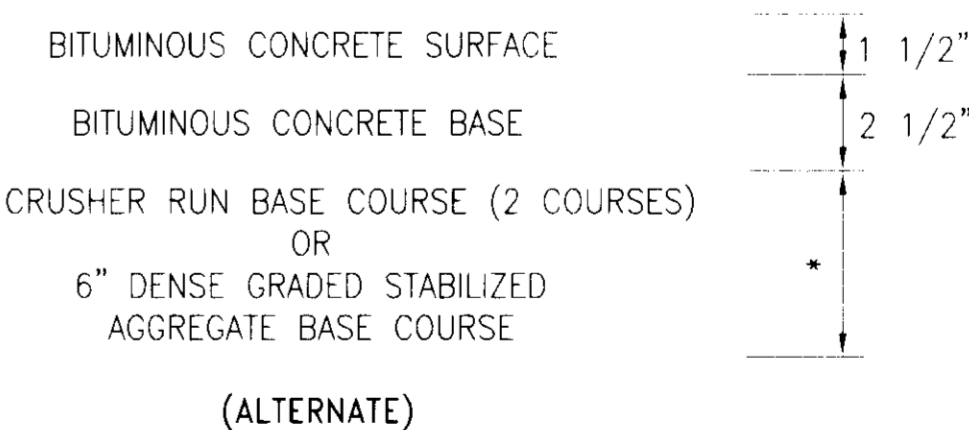
**HANDICAP SIGN DETAIL**  
NO SCALE



**NOTES:**

1. PROVIDE LATITUDINAL EXPANSION JOINTS AT 15' O.C. (MAX.)
2. PROVIDE CONTRACTION (DUMMY) JOINT AT 5' O.C. INTERVALS BETWEEN EXPANSION JOINTS. SIDEWALK TO BE SCRIBED IN 5" MAX. SQUARES.

**SIDEWALK DETAIL**  
NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

**P-2 PAVING**  
NO SCALE

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *James R. Bell* DATE: 4/24/97

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.

ENGINEER: *James R. Bell* DATE: 6/7/97

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

NATURAL RESOURCES CONSERVATION SERVICE: *James R. Bell* DATE: 6/24/97

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

HOWARD SOIL CONSERVATION DISTRICT: *James R. Bell* DATE: 6/24/97

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

COUNTY HEALTH OFFICER: *James R. Bell* DATE: 7/3/97

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *James R. Bell* DATE: 7/7/97

DEVELOPMENT ENGINEER: *James R. Bell* DATE: 8/24/97

DEVELOPMENT ENGINEER: *James R. Bell* DATE: 7/7/97

DEVELOPMENT ENGINEER: *James R. Bell* DATE: 7/7/97

OWNER: UNO RESTAURANT CORPORATION  
100 CHARLES PARK ROAD  
WEST ROXBURY, MASS. 02132  
617-325-9200

DEVELOPER: UNO RESTAURANT CORPORATION  
100 CHARLES PARK ROAD  
WEST ROXBURY, MASS. 02132  
617-325-9200

PROJECT: LONG GATE CENTER PARCEL "P"  
PIZZERIA UNO RESTAURANT

AREA: TAX MAPS # 24 & 30 PARCELS 707  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: GENERAL NOTES AND DETAILS

HNTB CORPORATION  
ARCHITECTS ENGINEERS PLANNERS  
99 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

DATE: 12/17/97

DESIGNED BY: *James R. Bell*

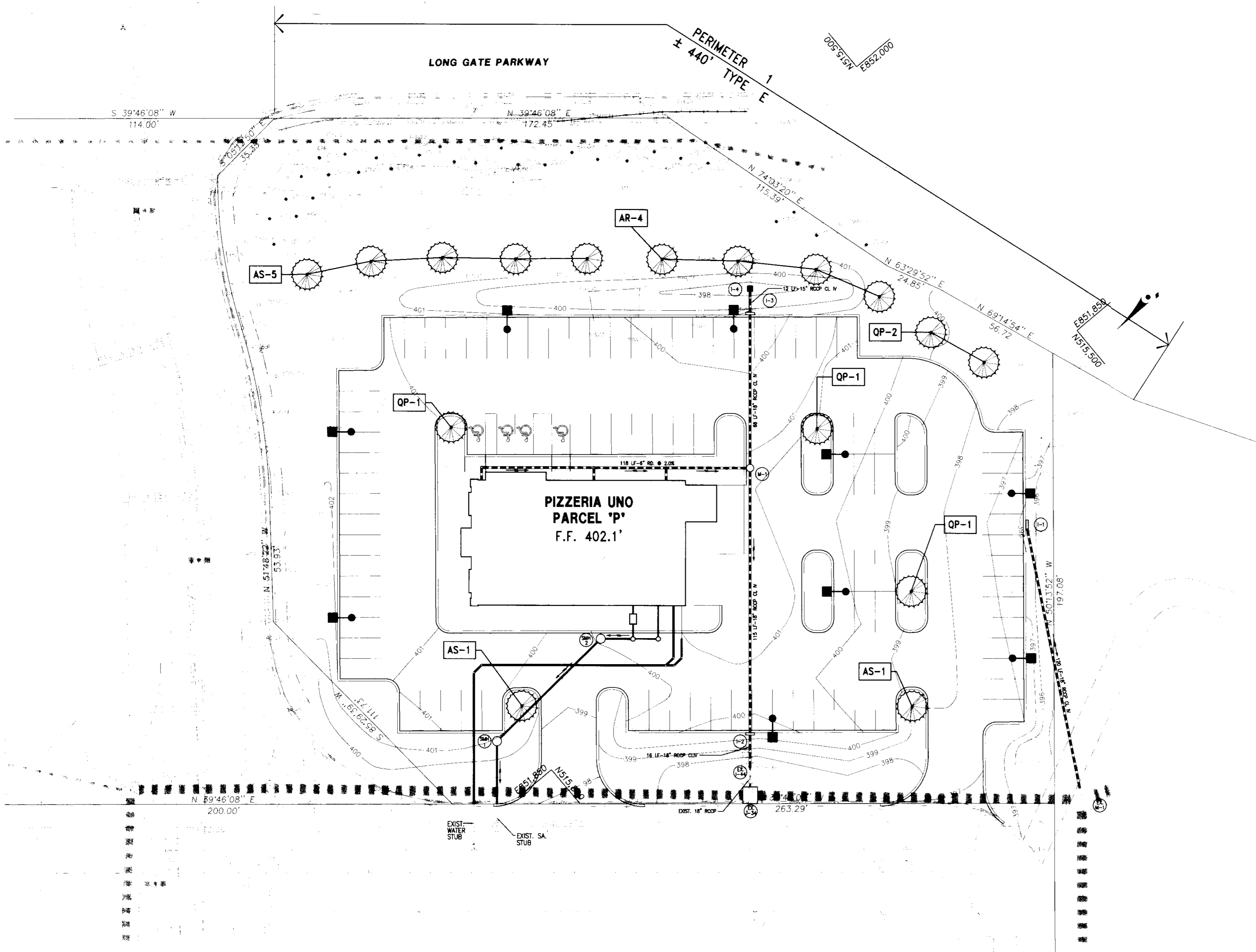
DRAWN BY: *James R. Bell*

PROJECT NO:

DATE:

SCALE:

DRAWING NO. OF



**LANDSCAPE PLAN**  
SCALE: 1" = 30'

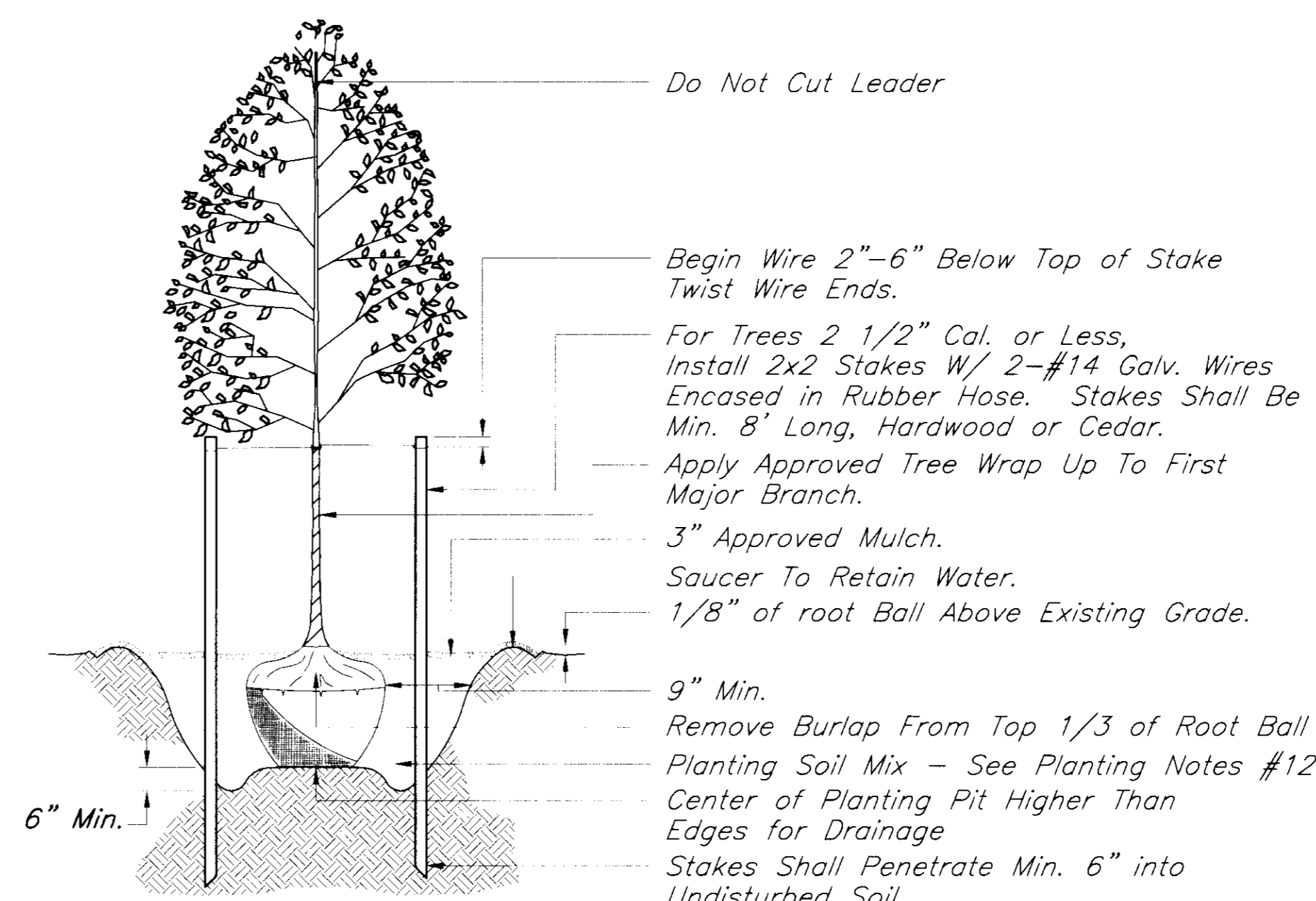
■ 20' LIGHT POLE WITH SINGLE SHOEBOX FIXTURE.  
ALL FIXTURES WILL DIRECT LIGHT DOWNWARD AND INWARD.

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE GRADING PERMIT IN THE AMOUNT OF \$1,600.00.

PLANT MATERIAL LIST				
KEY	QUANTITY	BOTANICAL AND COMMON NAME	SIZE	REMARKS
AS	7	ACER SACCHARUM "GREEN MOUNTAIN" GREEN MOUNTAIN SUGAR MAPLE	2 1/2" - 3" CALIPER	B & B
AR	4	ACER RUBRUM "RED SUNSET" RED SUNSET RED MAPLE	2 1/2" - 3" CALIPER	B & B
QP	5	QUERCUS PHELLOS WILLOW OAK	2 1/2" - 3" CALIPER	B & B

PERIMETER LANDSCAPE EDGE SCHEDULE A	
PERIMETER	1
LANDSCAPE TYPE	E
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	440
CREDIT FOR EXISTING VEGETATION	NO
CREDIT FOR WALL, FENCE OR BERM LINEAR FEET CREDIT DESCRIBED IN GENERAL NOTE 1 AT RIGHT.	YES 440 -
NUMBER OF PLANTS REQUIRED SHADE TREES 1/40 LF EVERGREEN TREES SHRUBS	11 - -
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SHRUBS	11 - -

PARKING LOT INTERNAL LANDSCAPING SCHEDULE B	
NUMBER OF PARKING SPACES	98
NUMBER OF ISLANDS REQUIRED (1 ISLAND PER 20 PARKING SPACES)	5
NUMBER OF ISLANDS PROVIDED	6
NUMBER OF SHADE TREES REQUIRED (1 PER 20 PARKING SPACES)	5
NUMBER OF SHADE TREES PROVIDED	5



**DECIDUOUS TREE DETAIL**  
(For Trees 2 1/2" Cal. or Less)  
NTS

**GENERAL NOTES:**

- Top of berm is 3' to 5' higher than Long Gate Parkway.  
Parking lot is 8' to 14' lower than Long Gate Parkway.  
Parking lot is 4' to 17' lower than top of berm.  
Berm used as substitution for required shrubs.
- The regulations do not require landscaped edges, buffering, or screening between internal lots or parcels within the same development. (Perimeter landscape Edges, P. 17 of Landscape manual.)
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual.

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*James R. Beal* 4/12/97  
DEVELOPER DATE

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. Beal* 6/17/97  
ENGINEER DATE

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*JWS* DATE

NATURAL RESOURCES CONSERVATION SERVICE DATE

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

*JWS* DATE

HOWARD SOIL CONSERVATION DISTRICT DATE

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

*James M. Boyd* 7/3/97  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James R. Beal* 7/1/97  
DIRECTOR DATE

*James R. Beal* 8/4/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*James R. Beal* 7/1/97  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

DEVELOPER **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

PROJECT **LONG GATE CENTER PARCEL "P"  
PIZZERIA UNO RESTAURANT**

AREA TAX MAPS # 24 & 30 PARCEL "P"  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE **LANDSCAPE PLAN**

**HNTB CORPORATION**  
ARCHITECTS ENGINEERS PLANNERS  
99 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

DATE *June 17, 1997*

SDP 95-62, F97-77

DESIGNED BY: JRB

DRAWN BY: KAD

PROJECT NO: 21760

DATE: MAY 21, 1997

SCALE: 1" = 30'

DRAWING NO. 5 OF 5



LONG GATE PARKWAY

N515.500  
E852.000

20' DRAINAGE AND UTILITY EASEMENT  
30' B. R. L.

AC=0.3800  
C=0.30  
ON IMP  
Z=POR

LIMIT OF DISTURBANCE

AC=0.4300  
C=0.76  
Z=POR

PIZZERIA UNO  
PARCEL 'P'  
F.F. 402.1'

AC=0.1200  
C=0.90  
Z=POR

AC=0.4100  
C=0.80  
Z=POR

AC=0.4900  
C=0.70  
Z=POR

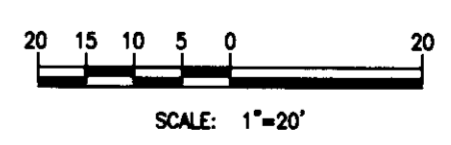
AC=0.0400  
C=0.90  
Z=POR

L=64.95'  
R=272.00'

R=288.00'  
L=78.33'

E851.850  
N515.500

NOTE:  
SUPER SILT FENCE  
SEE DETAIL, SHEET 3



- NOTES:**
- LIMIT OF DISTURBANCE IS AT PROPERTY LINE UNLESS OTHERWISE SHOWN.
  - ALL SOILS ARE ASSUMED "C" AS SITE WAS MASS GRADED.
- LEGEND**
- DRAINAGE DIVIDE
  - SC E STABILIZED CONSTRUCTION ENTRANCE
  - SF- SILT FENCE
  - INLET PROTECTION
  - LIMIT OF DISTURBANCE

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *[Signature]* DATE: 4/12/97

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.

ENGINEER: *[Signature]* DATE: 6/17/97

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

NATURAL RESOURCES CONSERVATION SERVICE: *[Signature]* DATE: 6/24/97

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

HOWARD SOIL CONSERVATION DISTRICT: *[Signature]* DATE: 6/24/97

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

COUNTY HEALTH OFFICER: *[Signature]* DATE: 7/3/97

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *[Signature]* DATE: 7/7/97

CHEIE DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 6/24/97

CHEIE DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 7/7/97

DATE	NO.	REVISION
<b>OWNER</b> UNO RESTAURANT CORPORATION 100 CHARLES PARK ROAD WEST ROXBURY MASS. 02132 617-323-9200		
<b>DEVELOPER</b> UNO RESTAURANT CORPORATION 100 CHARLES PARK ROAD WEST ROXBURY MASS. 02132 617-323-9200		
<b>PROJECT</b> LONG GATE CENTER PARCEL 'P' PIZZERIA UNO RESTAURANT		
<b>AREA</b> TAX MAPS # 24 & 30 PARCEL 'P' 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
<b>TITLE</b> DRAINAGE AREAS, AND SEDIMENT CONTROL PLAN		
<b>HNTB CORPORATION</b> ARCHITECTS ENGINEERS PLANNERS 99 CANAL CENTER PLAZA, SUITE 100 ALEXANDRIA, VIRGINIA 22314 703-684-2700		

June 17, 1997

SDP 95-62, F97-77

DESIGNED BY: JR

DRAWN BY: KAC

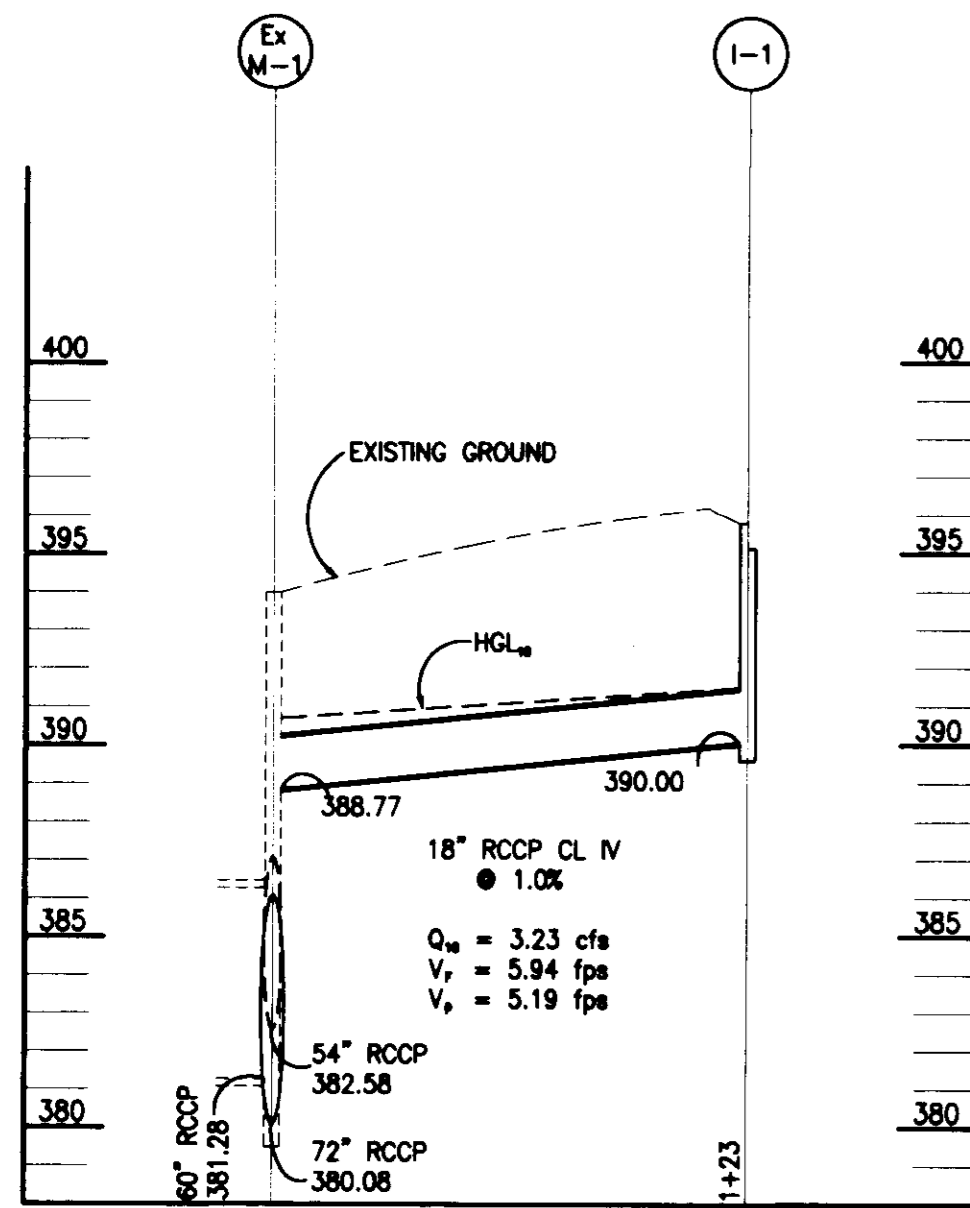
PROJECT NO: 27160

DATE: MAY 21, 1997

SCALE: AS SHOWN

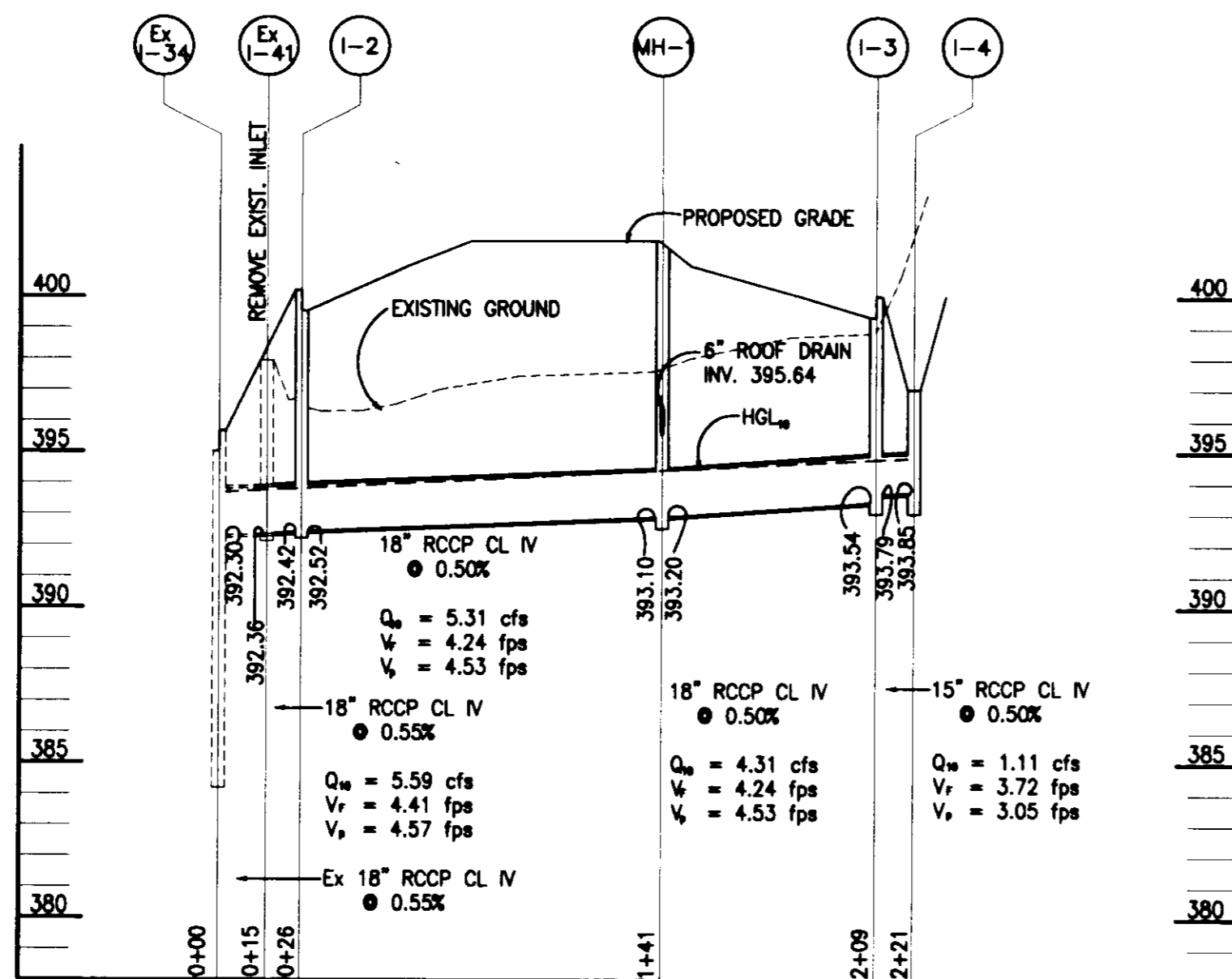
DRAWING NO. 4 OF 7

*[Signature]*  
JAMES R. BEALL #21888



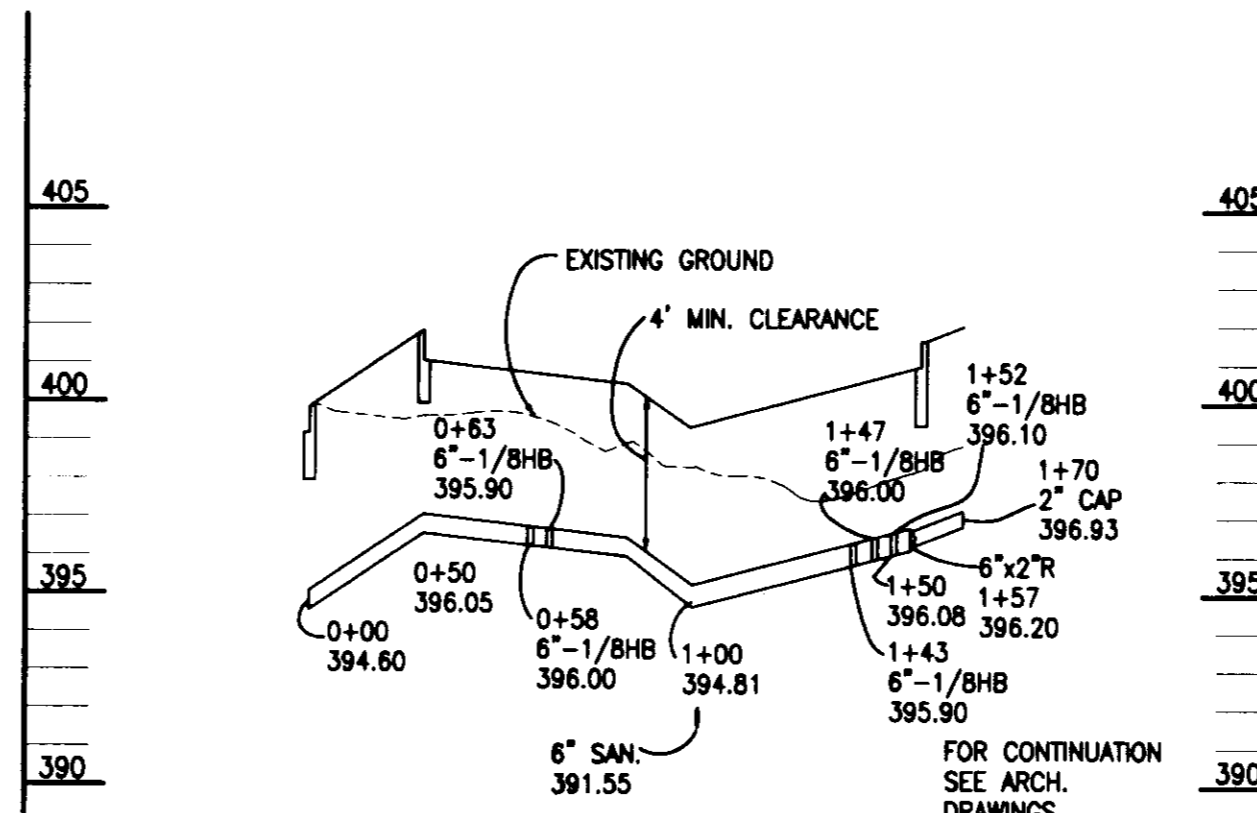
**STORM DRAIN PROFILE**

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



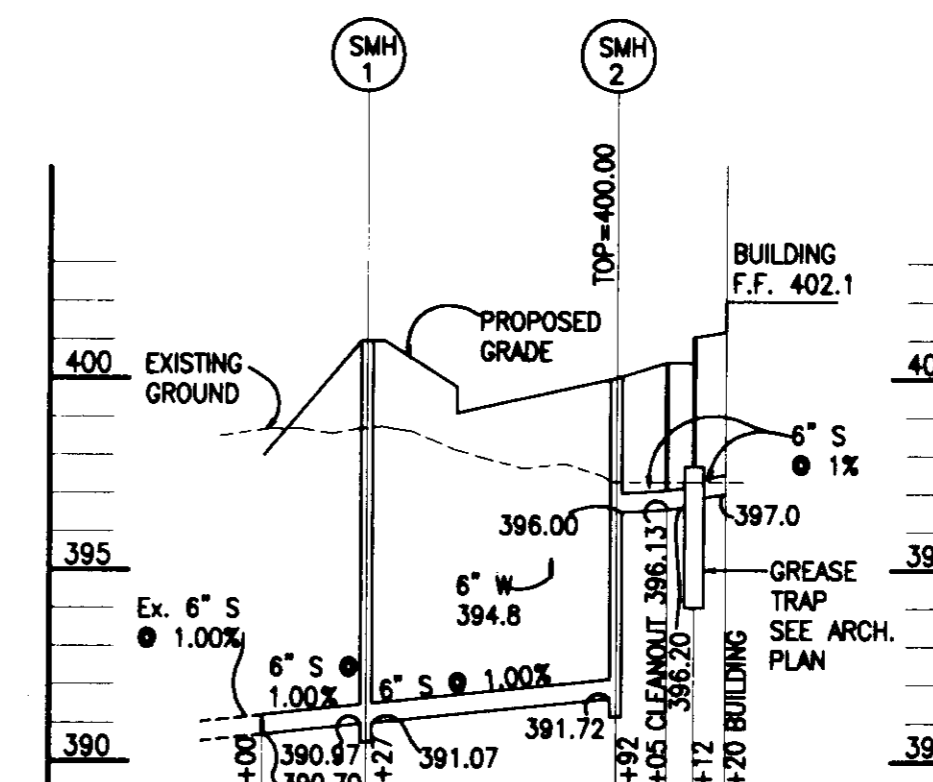
**STORM DRAIN PROFILE**

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



**WATER PROFILE**

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



**SEWER PROFILE**

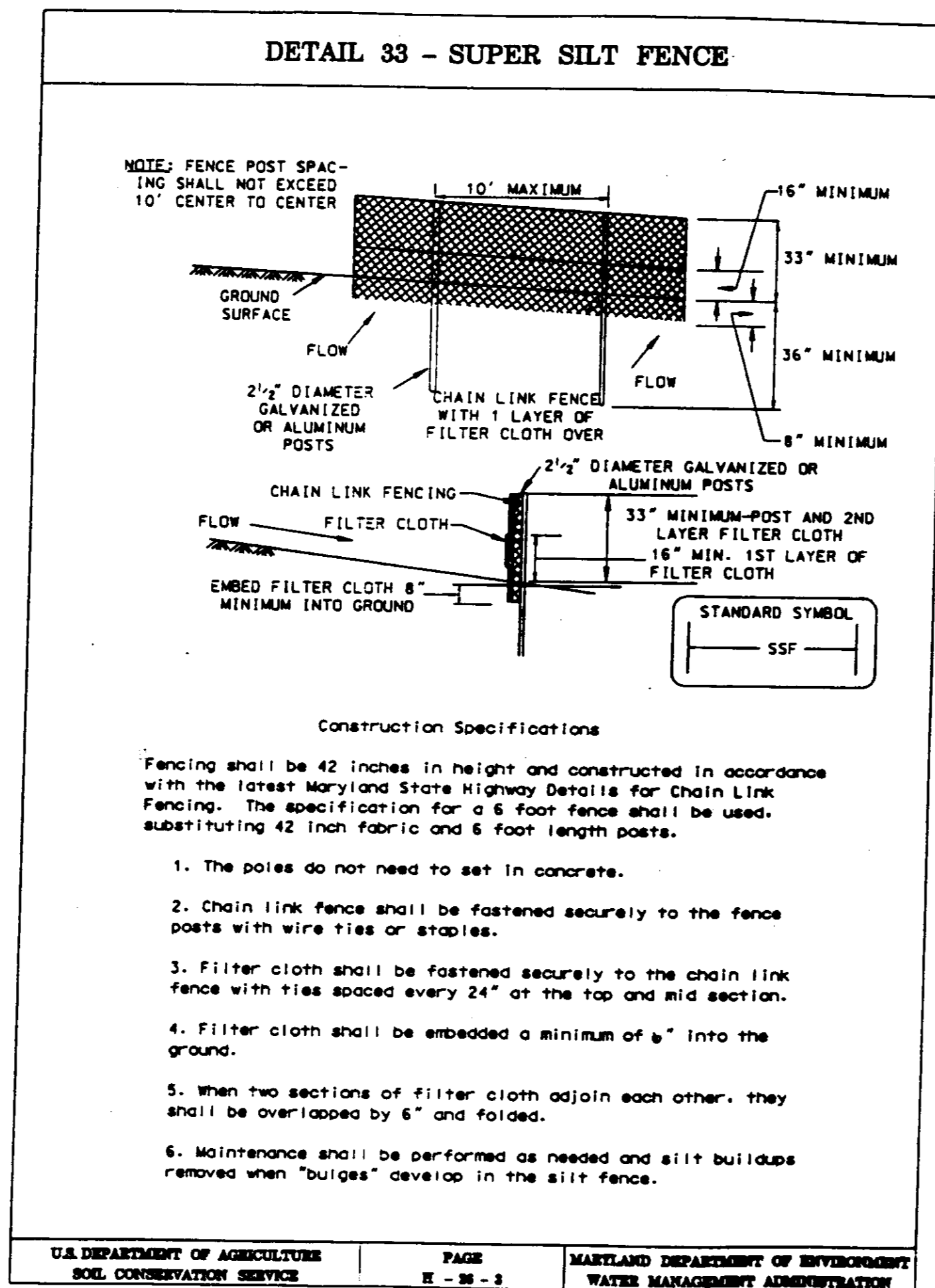
SCALE:  
HOR. - 1"=50'  
VERT. - 1"=5'

**STORM DRAIN STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	W	REMARKS
I-1	A-5	SEE PLAN	390.00	390.00	395.8	2'-6"	HOCO STD DETAIL SD-4.01
I-2	A-5	SEE PLAN	392.52	392.42	400.3	2'-6"	HOCO STD DETAIL SD-4.01
I-3	A-5	SEE PLAN	393.79	393.54	400.0	2'-6"	HOCO STD DETAIL SD-4.01
I-4	YARD	SEE PLAN	---	393.85	397.0	---	HOCO STD DETAIL SD-4.14
MH-1	4' MH	SEE PLAN	393.20	393.10	401.6	---	HOCO STD DETAIL G-5.12

**SANITARY SEWER STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
SMH-1	4' MH	SEE PLAN	391.07	390.97	400.9	HOCO STD DETAIL G-5.12
SMH-2	4' MH	SEE PLAN	396.59	391.72	400.0	HOCO STD DETAIL G-5.12



**SUPER SILT FENCE**

Design Criteria

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-38-3A MARYLAND DEPARTMENT OF ENVIRONMENTAL AND WATER MANAGEMENT ADMINISTRATION

BY THE DEVELOPER:  
I 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *James R. Beall* 4/18/97  
DATE

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.

ENGINEER: *James R. Beall* 6/17/97  
DATE

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

REVIEWER: *Carol Simmons* 6/28/97  
DATE

NATURAL RESOURCES CONSERVATION SERVICE

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

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

APPROVED: *James M. Boyd* 7/3/97  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

APPROVED: *James R. Beall* 7/7/97  
DIRECTOR DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION 6/28/97  
DATE

*Wanda Hamstra* 7/5/97  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER: **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

DEVELOPER: **UNO RESTAURANT CORPORATION**  
100 CHARLES PARK ROAD  
WEST ROXBURY MASS. 02132  
617-323-9200

PROJECT: **LONG GATE CENTER PARCEL "P"**  
**PIZZERIA UNO RESTAURANT**

AREA: TAX MAPS # 24 & 30 PARCEL "P"  
2nd ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: **STORM, SEWER, AND WATER PROFILES**

**HNTB CORPORATION**  
ARCHITECTS ENGINEERS PLANNERS  
99 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

DESIGNED BY: JRB

DRAWN BY: KAD

PROJECT NO: 27160

DATE: MAY 21, 1997

SCALE: AS SHOWN

DRAWING NO. 3 OF 7

DATE: *June 17, 1997*

DESIGNED BY: JRB

DRAWN BY: KAD

PROJECT NO: 27160

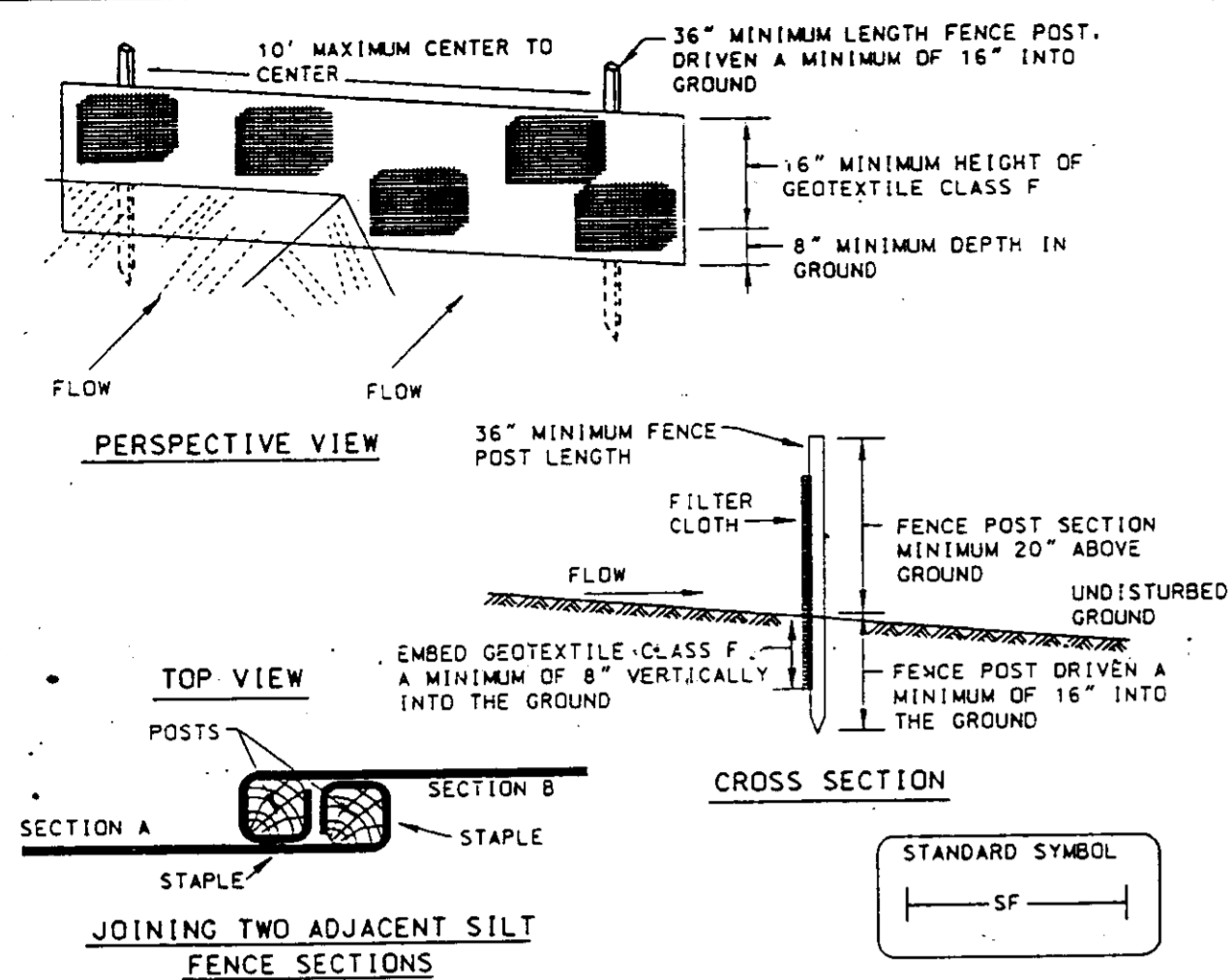
DATE: MAY 21, 1997

SCALE: AS SHOWN

DRAWING NO. 3 OF 7



**DETAIL 22 - SILT FENCE**



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 1/2" diameter round. Steel posts shall be of sound quality hardwood. Steel posts will be (minimum) round and shall be of sound quality hardwood. Standard T or U section weighting not less than 1.00 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 <sup>2</sup> /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

- 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 reaches 50% of the fabric height.

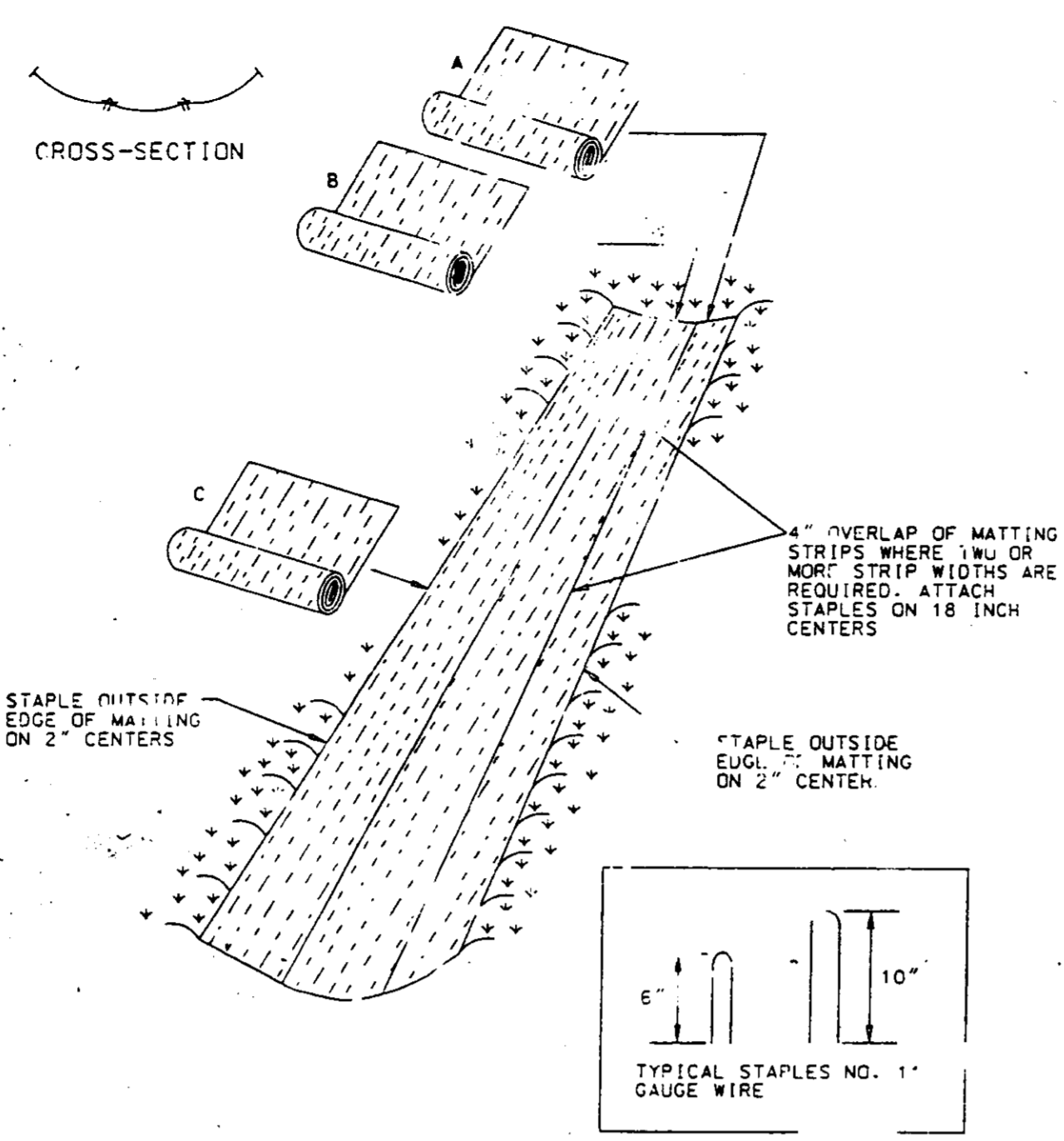
**Silt Fence Design Criteria**

Slope Steepness	(Maximum) Slope Length	
	1:1	2:1
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.

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**DETAIL 30 EROSION CONTROL MATTING**

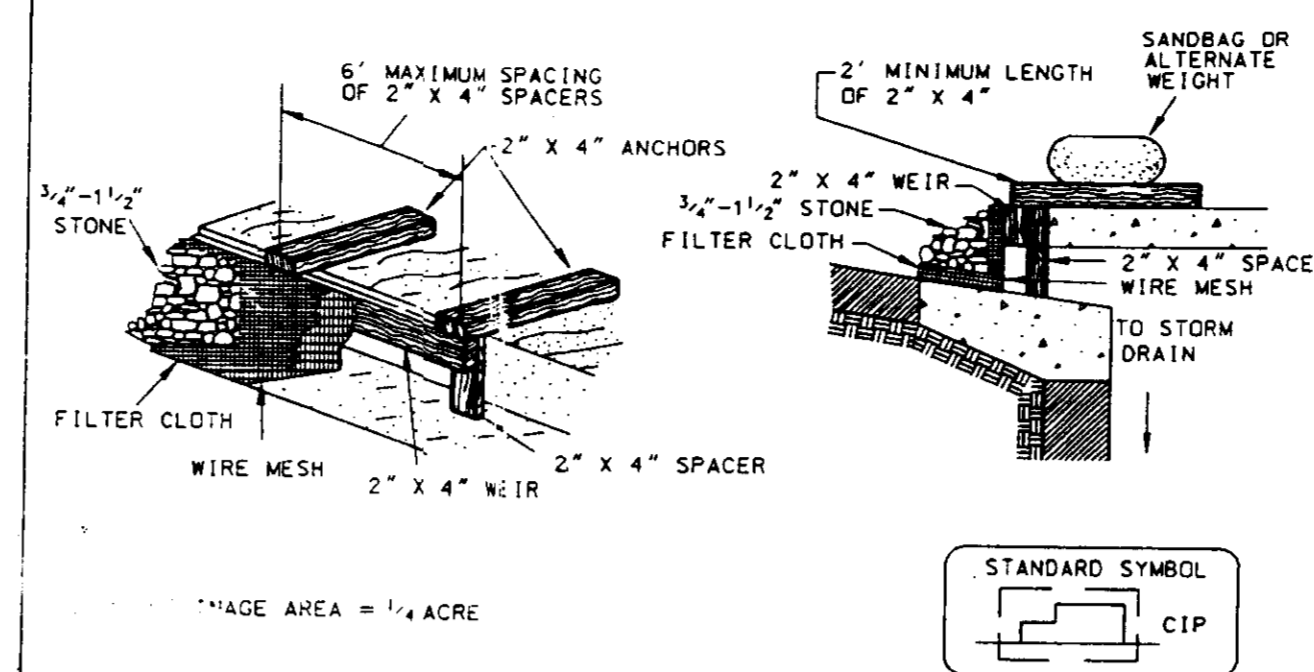


- Construction Specifications**
- Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
 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

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

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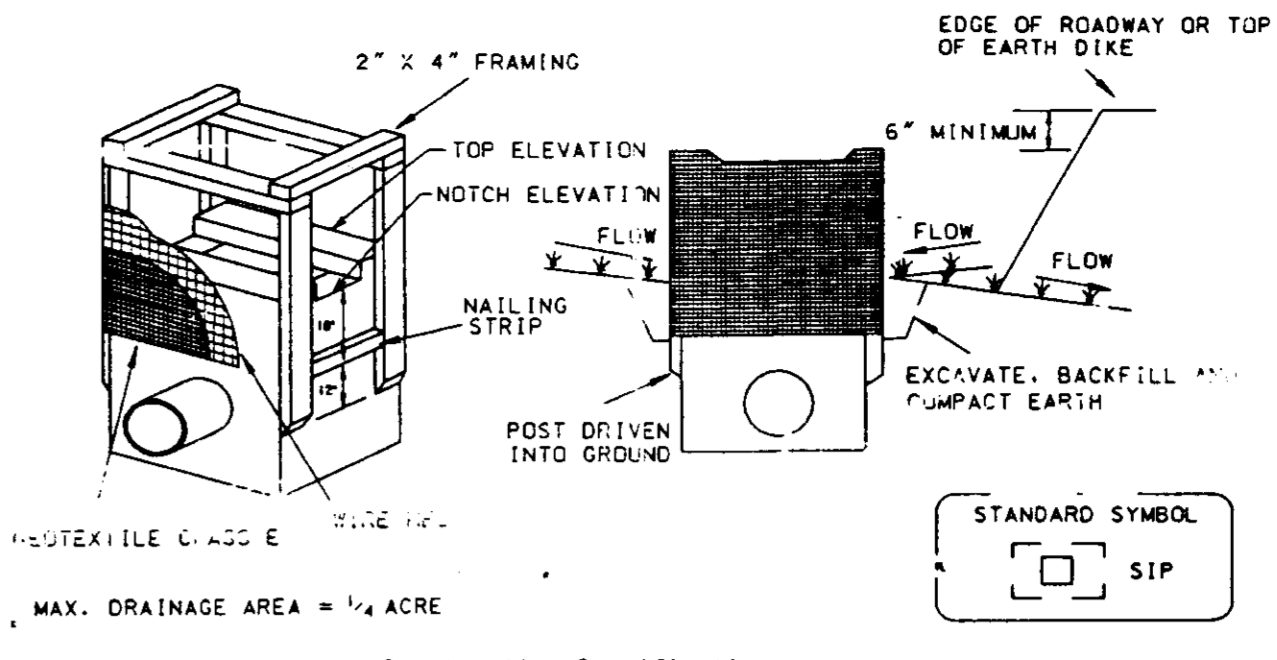
**DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)**



- Construction Specifications**
- Attach a continuous piece of wire mesh (30" minimum length plus 4") to the 2" x 4" weir (measuring throat length plus 4") as shown on the standard drawing.
  - Place a continuous piece of Geotextile Class E the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
  - Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
  - Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
  - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
  - Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
  - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
  - Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

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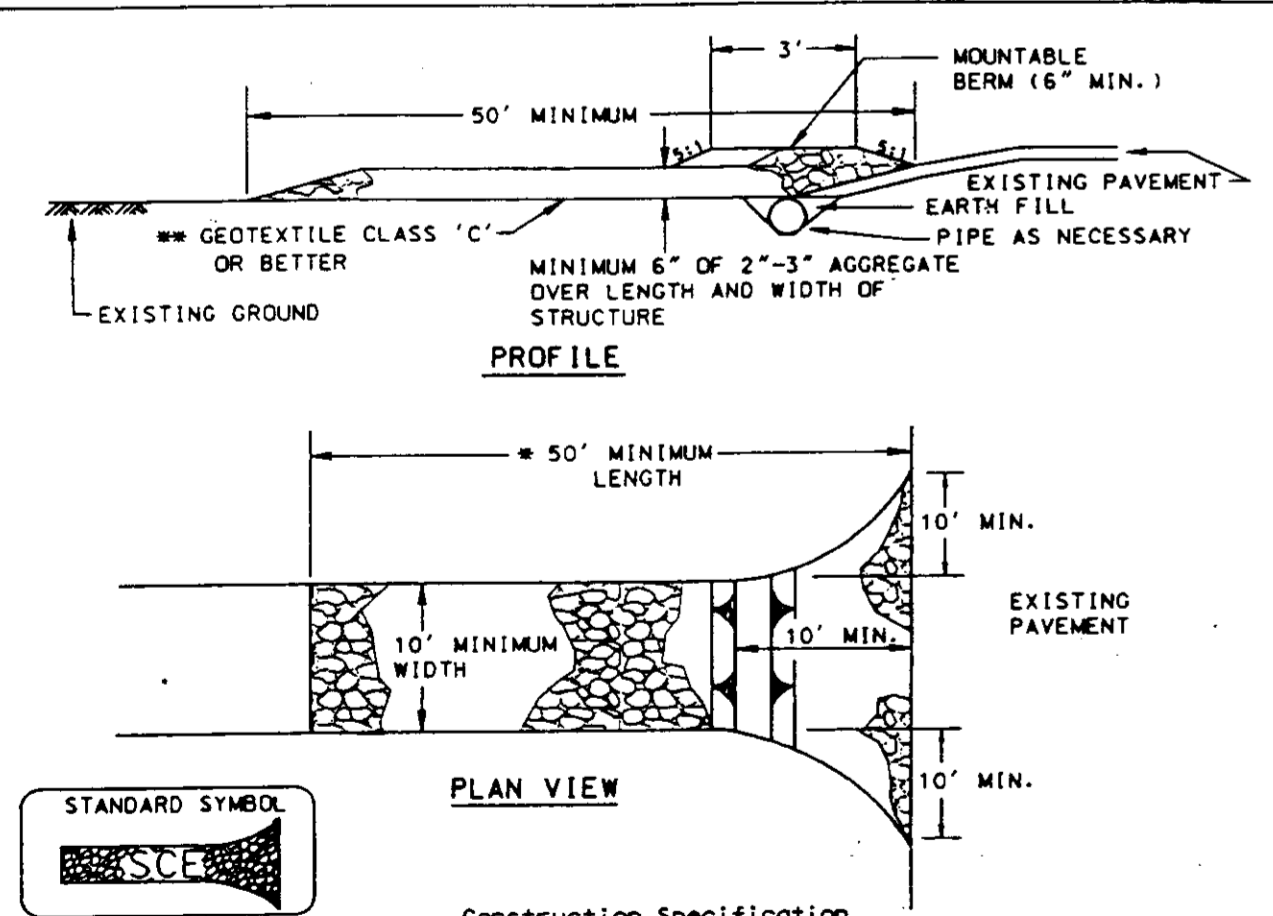
**DETAIL 23A - STANDARD INLET PROTECTION**



- Construction Specifications**
- Excavate completely around the inlet to a depth of 18" below the notch elevation.
  - Drive the 2" x 4" construction grade lumber posts 1' into the ground at each corner of the inlet. Place nail strips between the posts on the ends of the inlet. Assemble the top portion of the 2" x 4" frame using the overlap joint shown on detail 23A. The top of the frame (weir) must be 6" below adjacent roadways where flooding and safety issues may arise.
  - Stretch the 1/2" x 1/2" wire mesh tightly around the frame and fasten securely. The ends must meet and overlap at a post.
  - Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18" below the inlet notch elevation. Fasten the geotextile firmly to the frame. The ends of the geotextile must meet at a post, be overlapped and folded, then fastened down.
  - Backfill around the inlet in compacted 6" layers until the layer of earth is level with the notch elevation on the ends and top elevation on the sides.
  - If the inlet is not in a sump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike should be at least 6" higher than the top of the frame.
  - The structure must be inspected periodically and after each rain and the geotextile replaced when it becomes clogged.

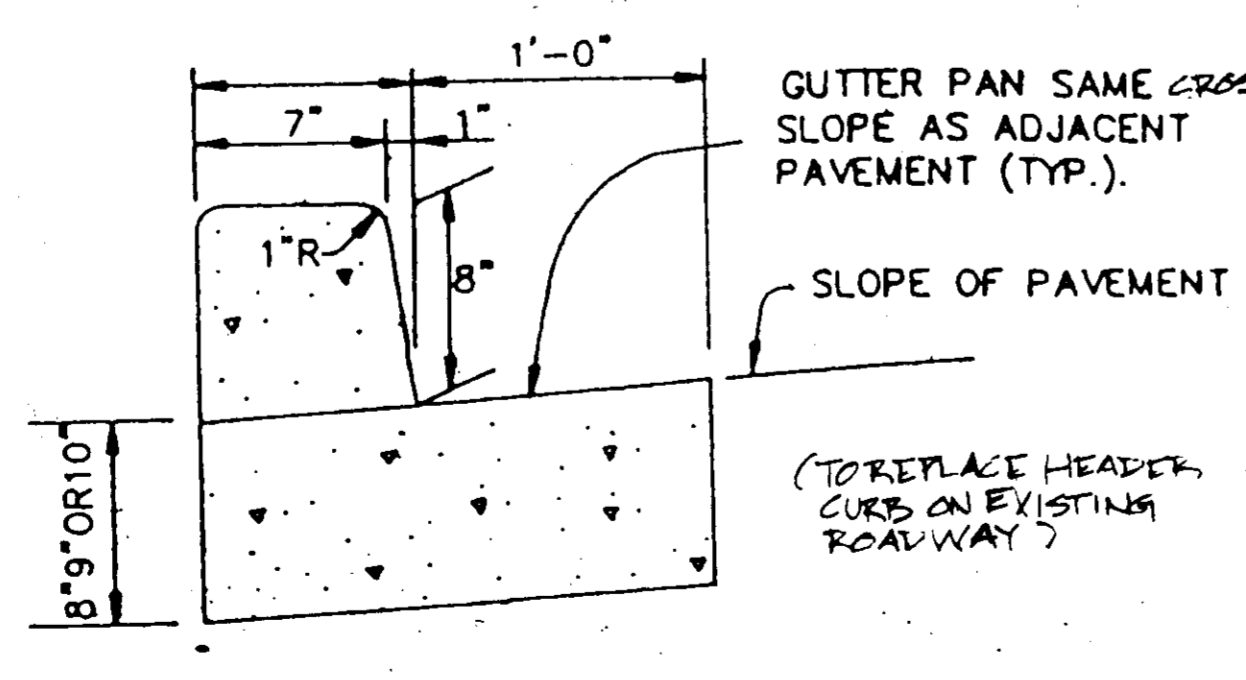
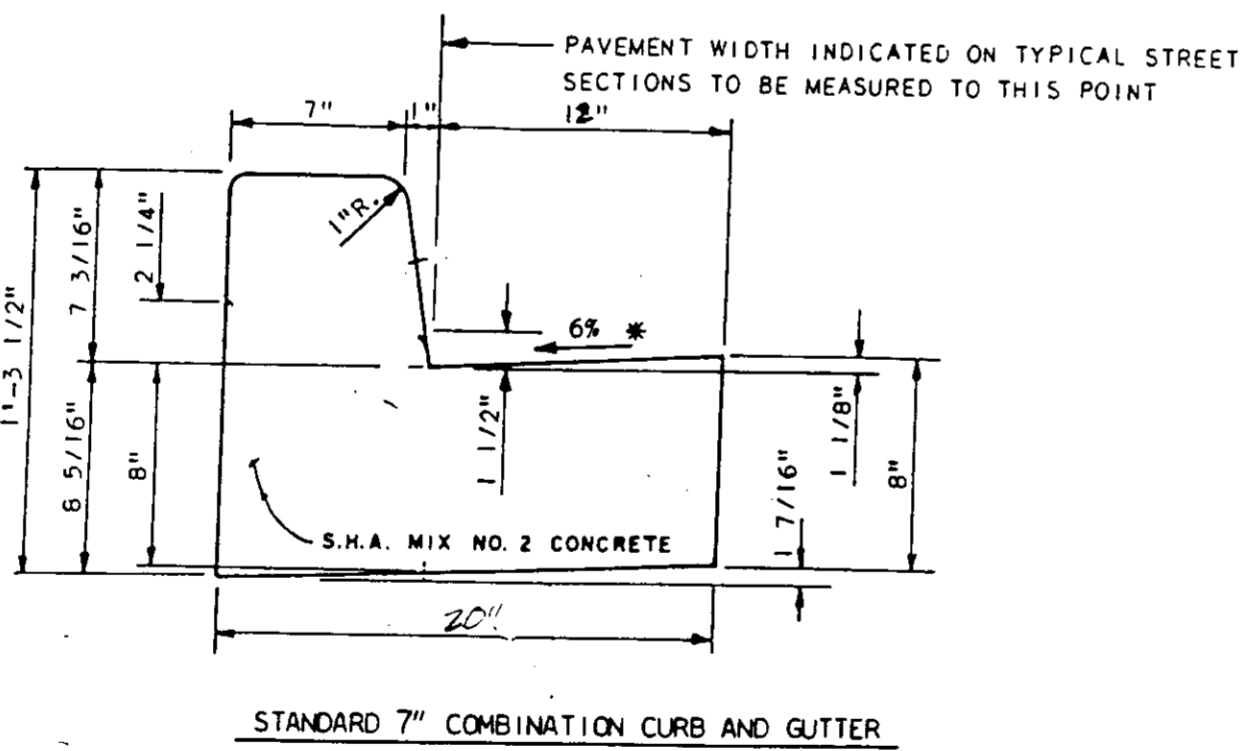
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**DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE**



- Construction Specification**
- 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 sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
  - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

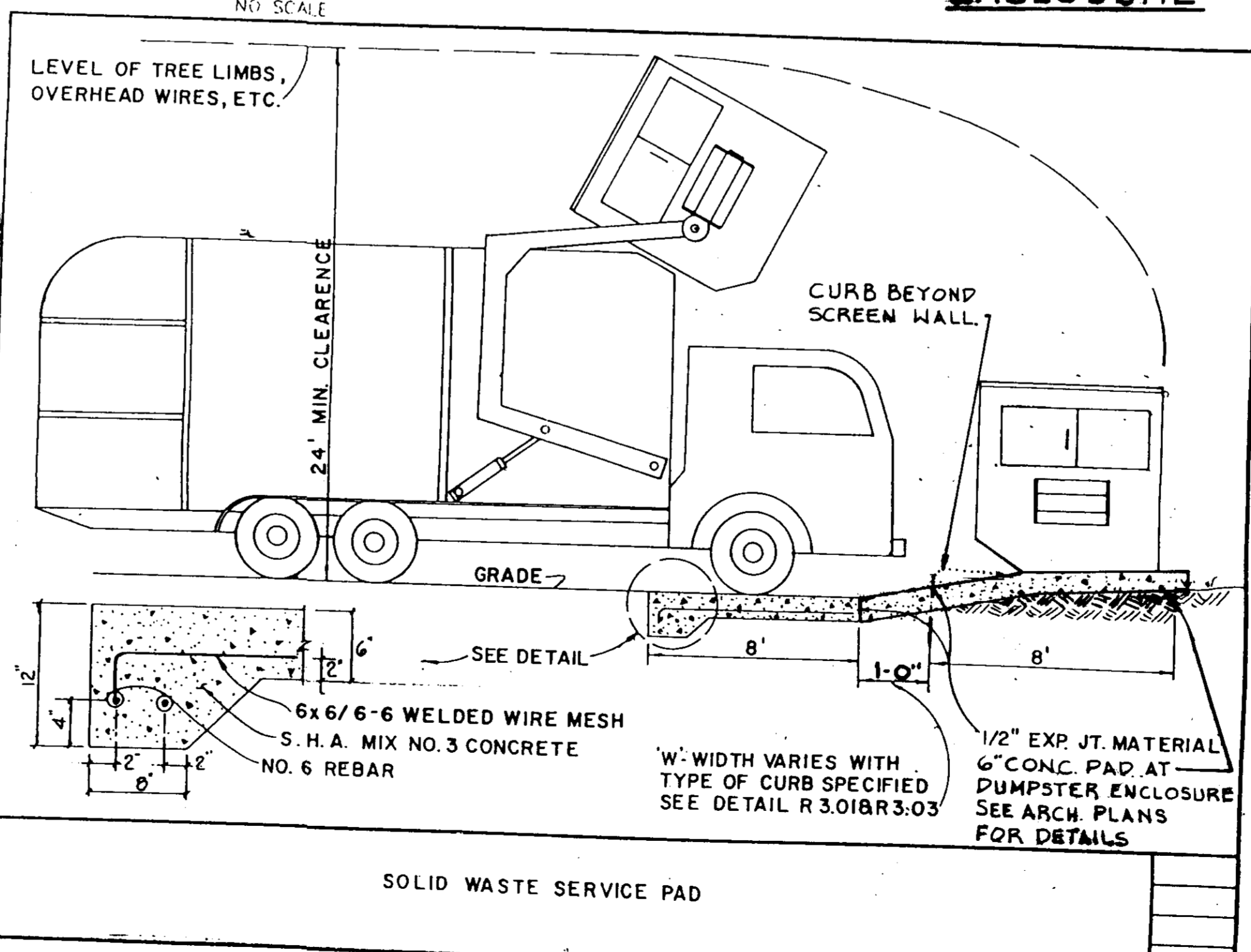
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**M.S.H.A. TYPE 'A' CURB AND GUTTER**

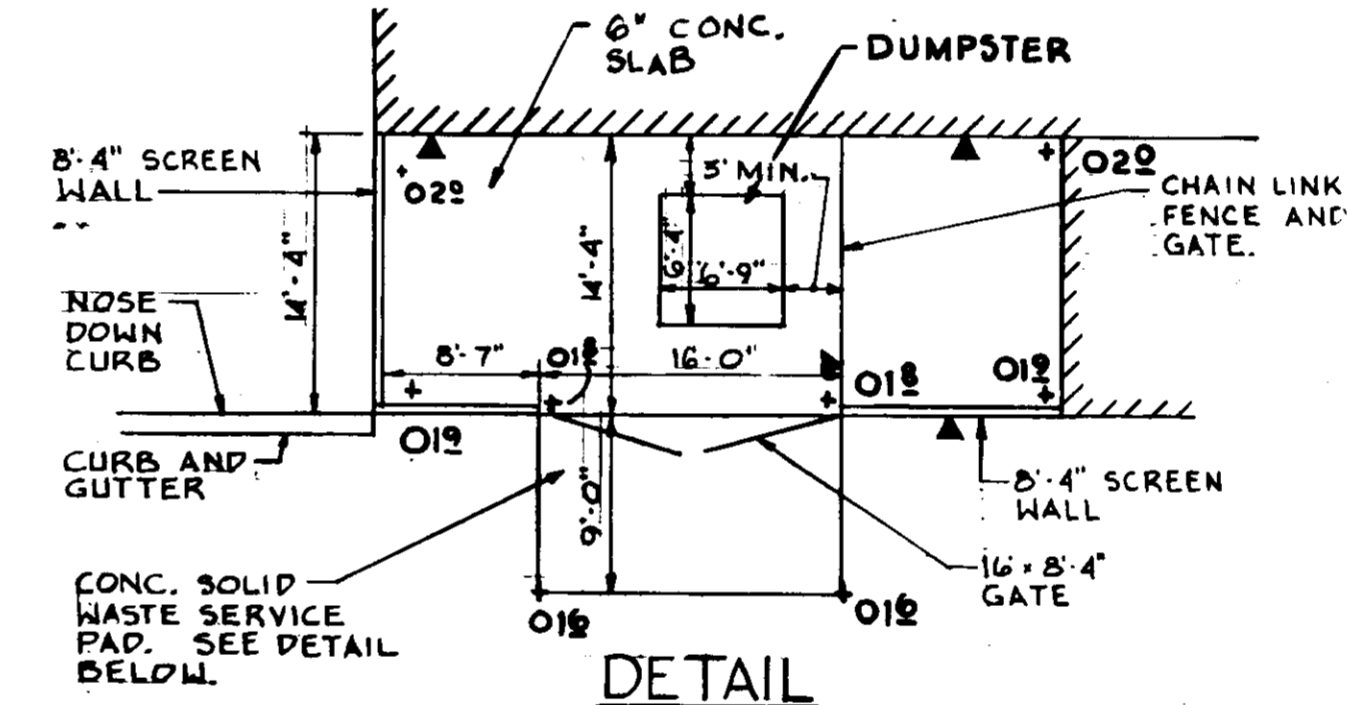
NO SCALE

**REVERSE 7" COMBINATION CURB AND GUTTER**



NO SCALE

**DETAIL SECURITY AND TRASH ENCLOSURE**



NO SCALE

SUPER SILT FENCE SEE SHEET 3

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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*James R. Beall* 6/13/97  
DEVELOPER

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. Beall* 6/17/97  
ENGINEER

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

NATURAL RESOURCES CONSERVATION SERVICE DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

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

*James M. Boyd* 7/3/97  
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James R. Beall* 7/1/97  
DIRECTOR

*James R. Beall* 8/1/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*James R. Beall* 7/1/97  
CHIEF, DIVISION OF LAND DEVELOPMENT

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AREA TAX MAPS # 24 & 30 PARCEL 'P'  
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HOWARD COUNTY, MARYLAND

TITLE DETAILS

HNTB CORPORATION  
ARCHITECTS ENGINEERS PLANNERS  
88 CANAL CENTER PLAZA, SUITE 100  
ALEXANDRIA, VIRGINIA 22314  
703-684-2700

June 17, 1997  
SDP 95-62, F97-77  
DESIGNED BY: JRB  
DRAWN BY: KAD  
PROJECT NO: 27160  
DATE: MAY 21, 1997  
SCALE: AS SHOWN  
DRAWING NO. 7 OF 7