

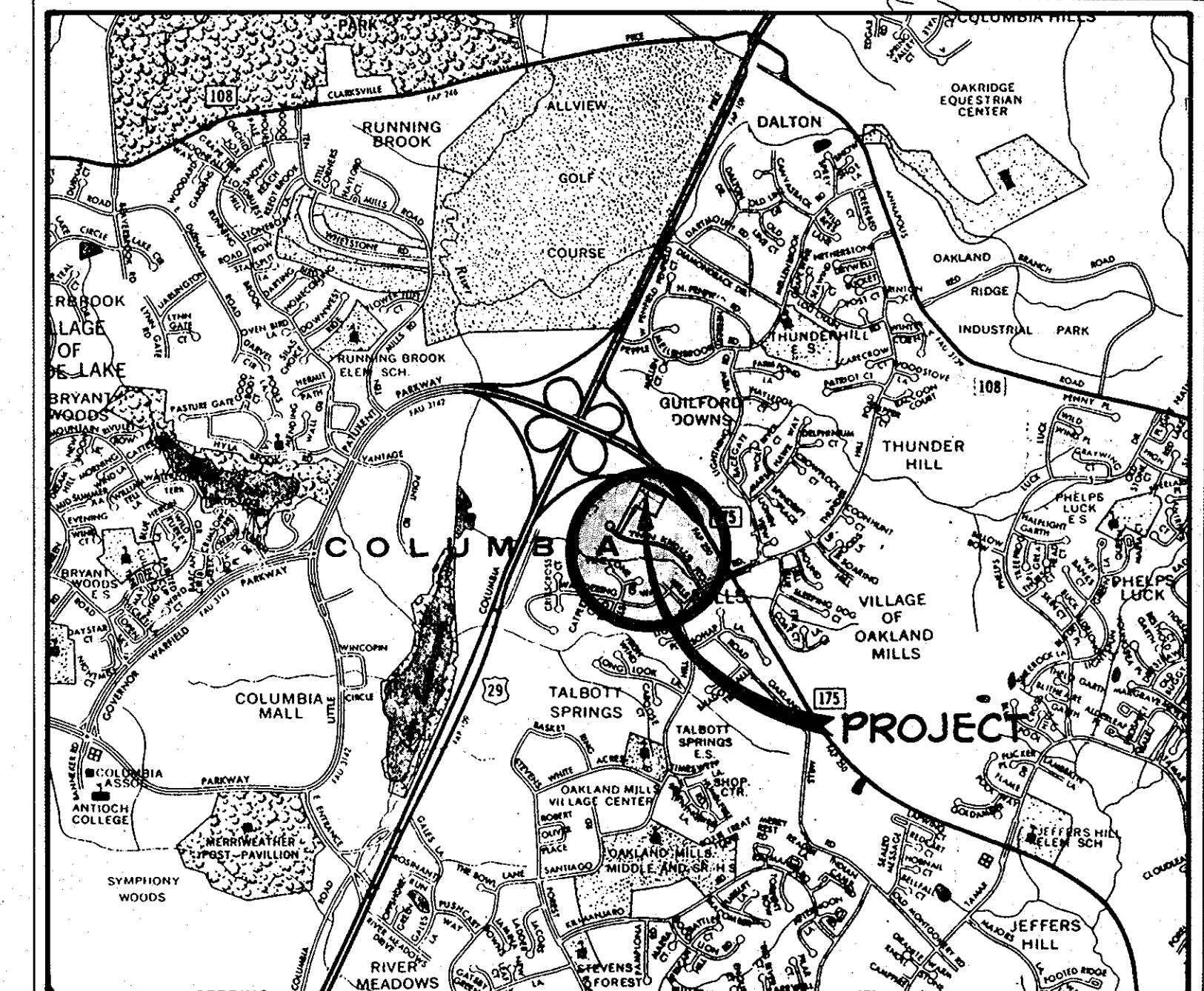
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DETAILS
4	PROFILES AND DETAILS
5	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
6	SEDIMENT CONTROL DETAILS
7	PLANTING PLAN

SITE DEVELOPMENT PLAN

TWIN KNOLLS INN

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 36" COVER BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR 2 PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLED BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWINGS:

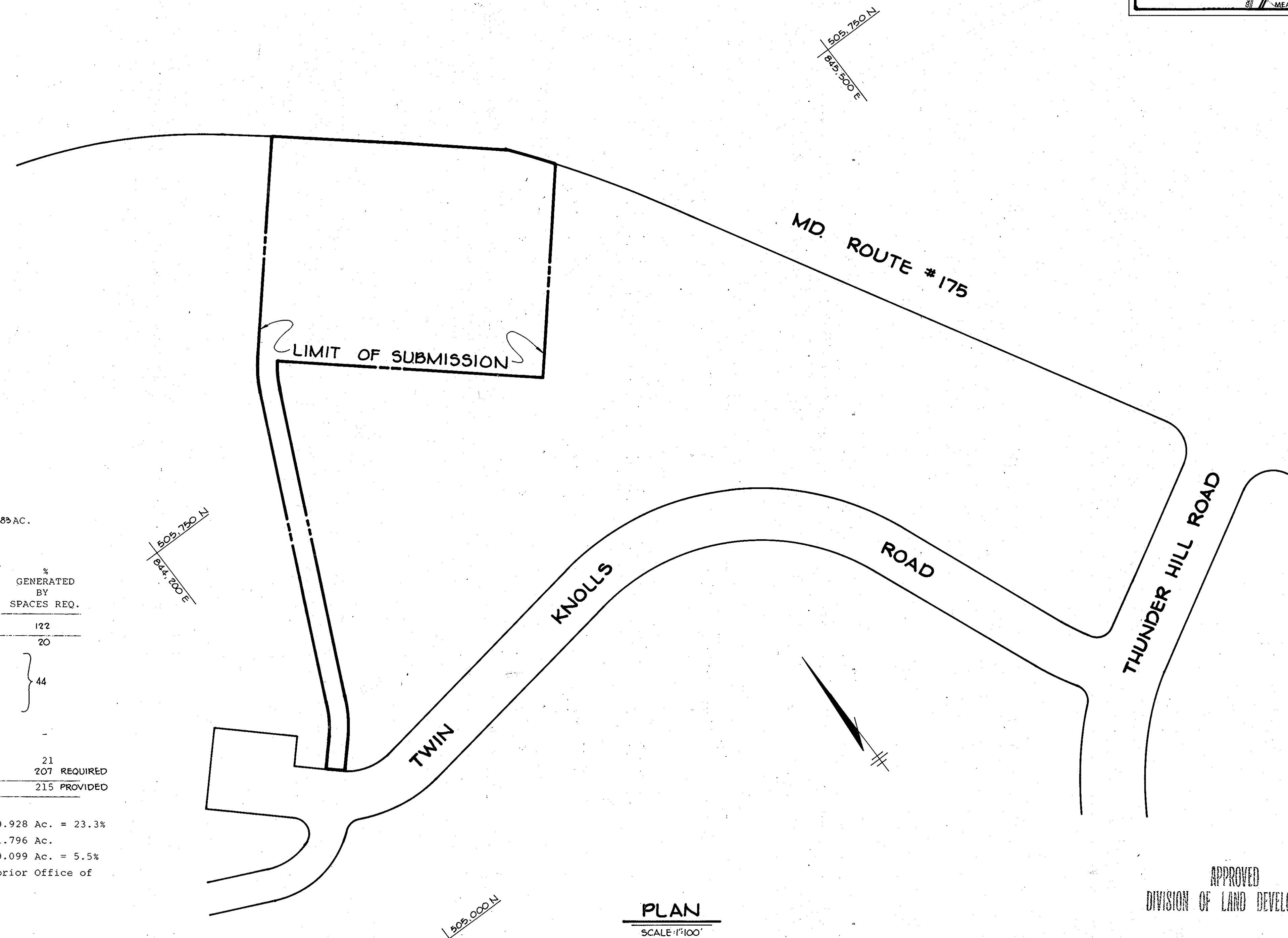
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRICITY COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 992-2417 OR 992-2418.

SITE DATA

1. TOTAL AREA.....	3.985 AC.				
2. EXISTING ZONING.....	B-2				
3. BUILDING USES, EMPLOYEES' AND PARKING REQUIREMENTS:					
USE*	CAPACITY OF SPECIFIC USE	MINIMUM SPACES REQUIRED BY ZONING ORDINANCE (SECT. 10-123)	% GENERATED BY INN GUESTS	% GENERATED BY NON GUESTS	% GENERATED BY SPACES REQ.
Guest Rooms	192 Rooms	one/room = 147	0%	-	122
Banquet Room	200 Seats	one/4 seats = 50	-	-	20
Dining Room	120 Seats	one/4 seats = 30	-	-	} 44
Lounge	100 Seats	one/4 seats = 25	-	-	
Meeting Rooms	125 Seats	one/3 seats = 42	-	-	
Seminar Facility	56 Seats	one/3 seats = 19	-	-	
Specialty Shops (Comm.)	400 Sq. Ft.	one/200 sq. ft. = 5	-	-	-
Employees	41 largest shift	one/2 employees = 21	-	100%	21
TOTALS					207 REQUIRED
					215 PROVIDED

Building Coverage: 37,270 S.F.; 22%

- OPEN SPACE AREA.....0.928 Ac. = 23.3%
 - PARKING LOT AREA.....1.796 Ac.
 - AREA OF LANDSCAPED PARKING LOT ISLANDS.....0.099 Ac. = 5.5%
- *NOTE: There will be no changes or additions to the uses specified without prior Office of Planning and Zoning Approval.



PLAN
SCALE: 1" = 100'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
[Signature] 9-8-80
 PLANNING DIRECTOR DATE
[Signature] 9-8-80
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
[Signature] 9-8-80
 COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 9-8-80
 DIRECTOR DATE

[Signature] 9/8/80
 CHIEF, BUREAU OF ENGINEERING DATE

8-30-80 Δ REVISED AS PER H.C. COMMENTS DATED 8-23-80
 7-11-80 Δ REVISED AS PER H.C. COMMENTS DATED 6-5-80

OWNER/DEVELOPER
 SOUZA CORPORATION
 1000 CENTURY PLAZA
 SUITE 321
 COLUMBIA, MARYLAND 21044

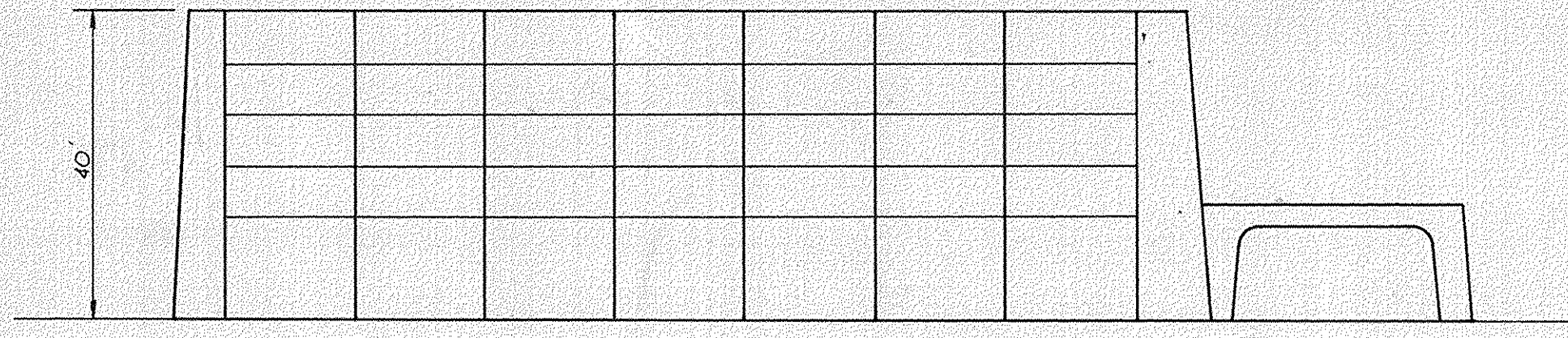
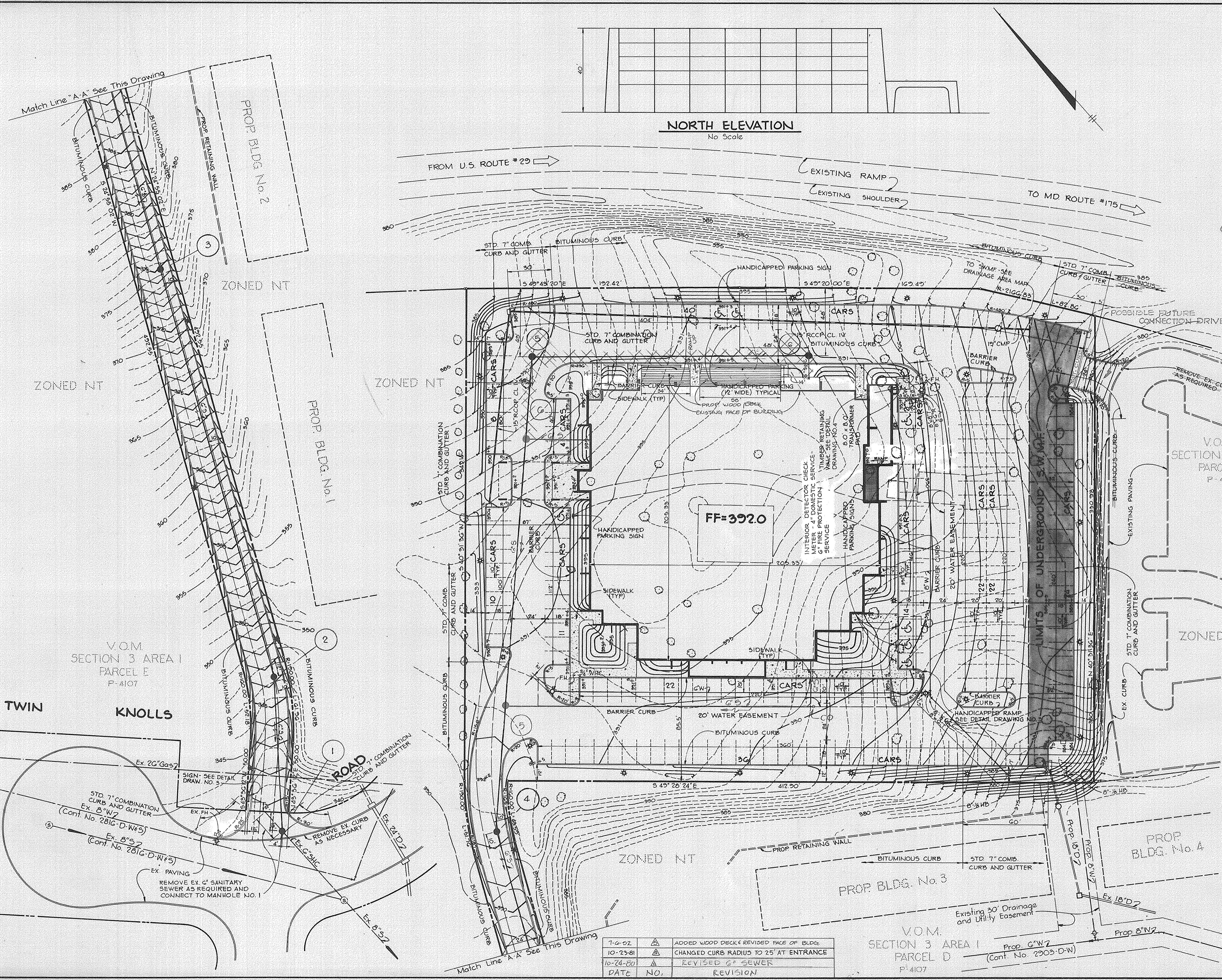
PROJECT:
TWIN KNOLLS INN

AREA
 TAX MAP NO. 30
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE:
 TITLE SHEET

TR **Riemer · Tracy & Associates, Inc.**
 8659 Baltimore National Pike
 Elcott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

9-3-80 DATE
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE **8-29-80**
[Signature]
 PROFESSIONAL ENGR. NO. 9566
 PARCEL 77 L-330/F466
 DESIGNED BY: J.K.T.
 DRAWN BY: R.J.W.
 PROJECT NO: 0580
 DATE: 5-12-80
 SCALE: 1" = 100'
 DRAWING NO. 1 OF 7



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyles 9-8-80
 COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
George F. Nearing 9-8-80
 DIRECTOR DATE

William E. Rasmussen 9/8/80
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas L. Harigle 9-8-80
 DIRECTOR DATE

Shawn M. ... 9-5-80
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

NOTE: ON SITE PUBLIC WATER MAIN SHALL BE CONSTRUCTED UNDER HOWARD COUNTY CONTRACT
 ON SITE PRIVATE SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 8-29-80
JMM

V.O.M. SECTION 3 AREA I PARCEL C P-4107
 WITZKE FUNERAL HOME
 ZONED NT

8-30-80	REVIS	AS PER H.C. COMMENTS DATED 8-29-80
7-11-80	REVIS	AS PER H.C. COMMENTS DATED 6-5-80
DATE	NO.	REVISION
OWNER/DEVELOPER		
SOUSA CORPORATION 1000 CENTURY PLAZA SUITE 321 COLUMBIA, MARYLAND 21044		
PROJECT: TWIN KNOLLS INN		
AREA: TAX MAP NO 30 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: SITE DEVELOPMENT PLAN		

Riemer Tracy & Associates, Inc.
 8659 Baltimore National Pike
 Ellicott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

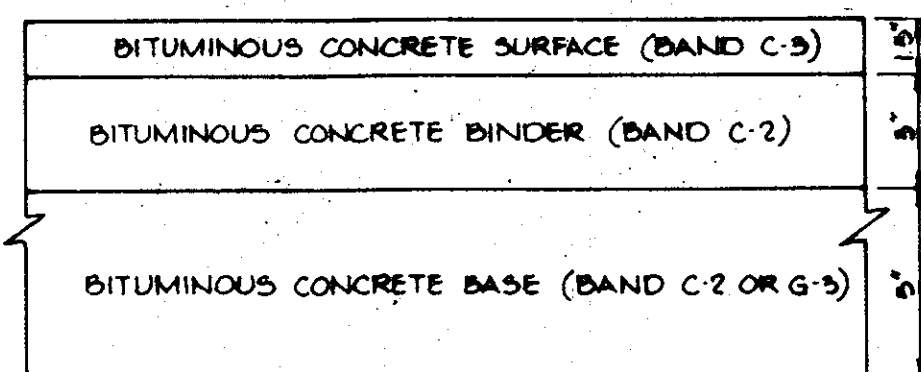
9-3-80
 DATE

PARCEL 77 L333/F 4GG
 DESIGNED BY: J.K.T.
 DRAWN BY: R.J.W.
 PROJECT NO: 0580
 DATE: 5-12-80
 SCALE: 1"=30'
 DRAWING NO. 2 OF 7

James H. ...
 PROFESSIONAL ENGR. NO. 9566
 SDP-80-140

7-6-82	REVIS	ADDED WOOD DECK & REVISED FACE OF BLDG.
10-23-81	REVIS	CHANGED CURB RADIUS TO 25' AT ENTRANCE
10-24-80	REVIS	REVISED 6" SEWER
DATE	NO.	REVISION

MARYLAND BLUEPRINT CO., INC.



HOWARD COUNTY STANDARD (DRAWING D-12, PAGE 67)

CLEARING AND GRADING ARTICLE C-1
 SUBGRADE ARTICLE C-2
 BASE COURSE ARTICLE C-31 OR C-33
 BINDER COURSE ARTICLE C-31
 SURFACE COURSE ARTICLE C-31

(5/8" PAVING)

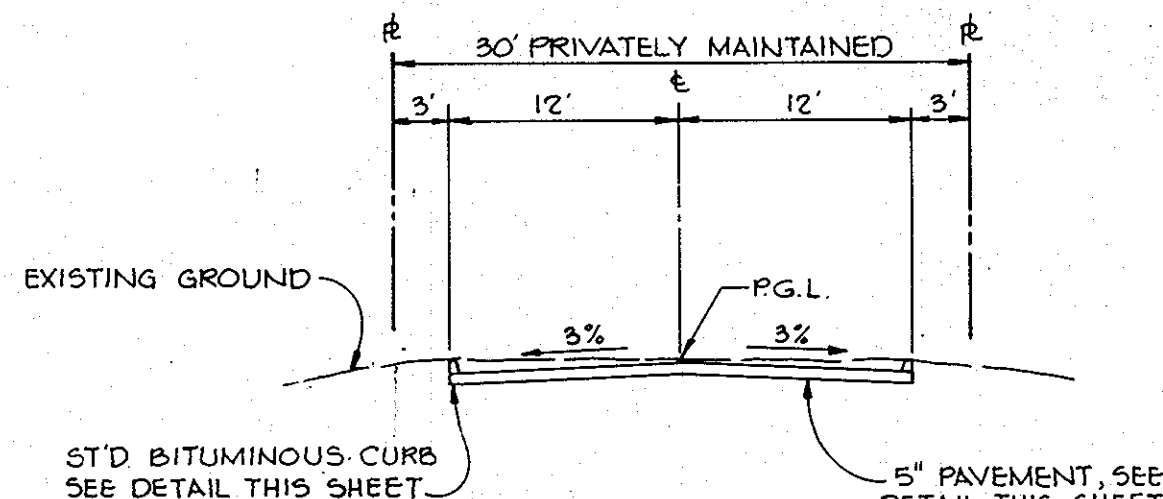
NOTES

1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS
3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

PUBLIC ROAD

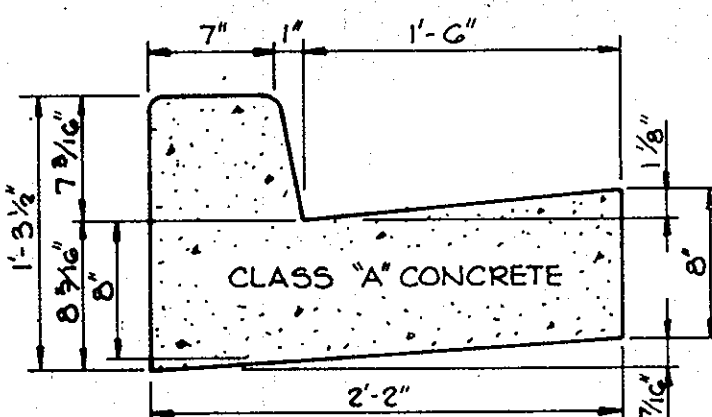
TYPICAL PAVING SECTIONS

No Scale



TYPICAL DRIVEWAY SECTION

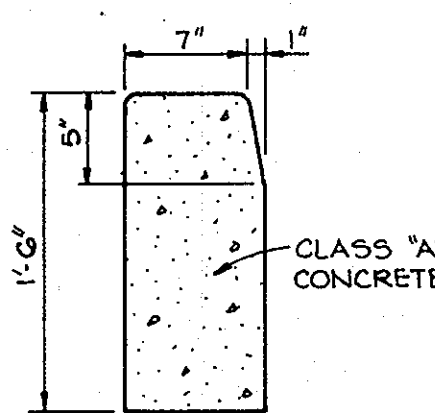
No Scale



HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 35)

STANDARD 7" COMBINATION CURB AND GUTTER

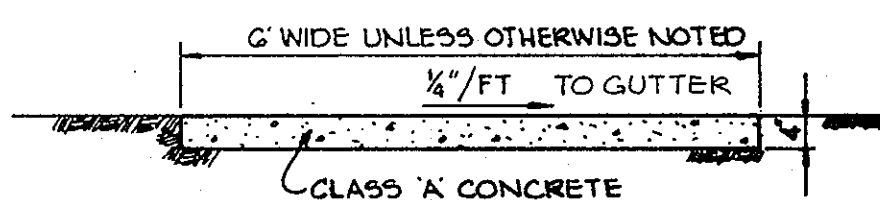
No Scale



HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 35)

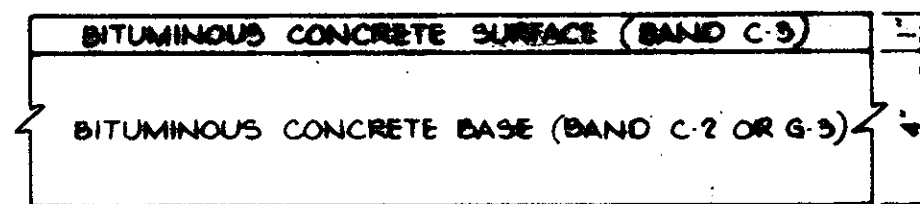
STANDARD BARRIER CURB

No Scale



SIDEWALK DETAIL

No Scale



HOWARD COUNTY STANDARD (DRAWING D-15, PAGE 67)

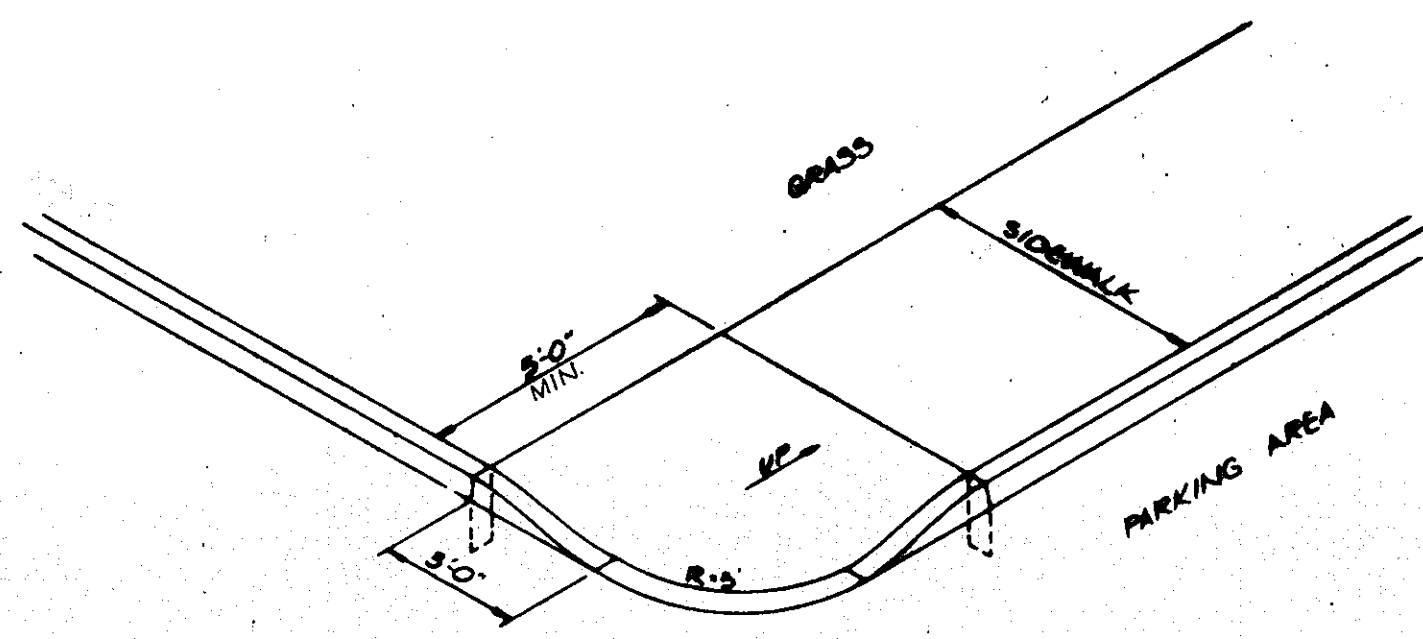
CLEARING AND GRADING ARTICLE C-1
 SUBGRADE ARTICLE C-2
 BASE COURSE ARTICLE C-31 OR C-33
 SURFACE COURSE ARTICLE C-31

(5' PAVING)

NOTES

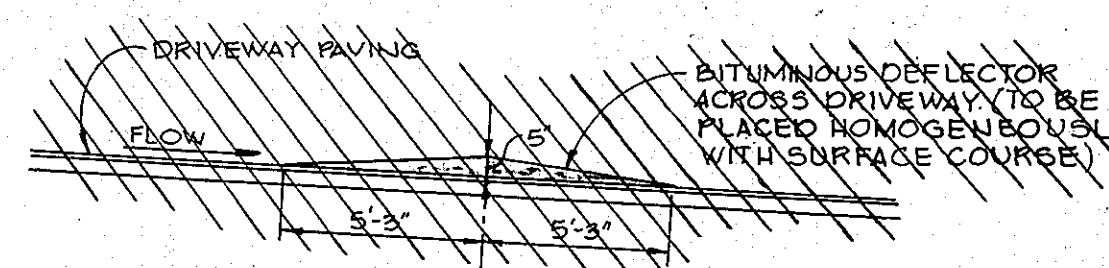
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS
3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

PRIVATE DRIVE AND PARKING



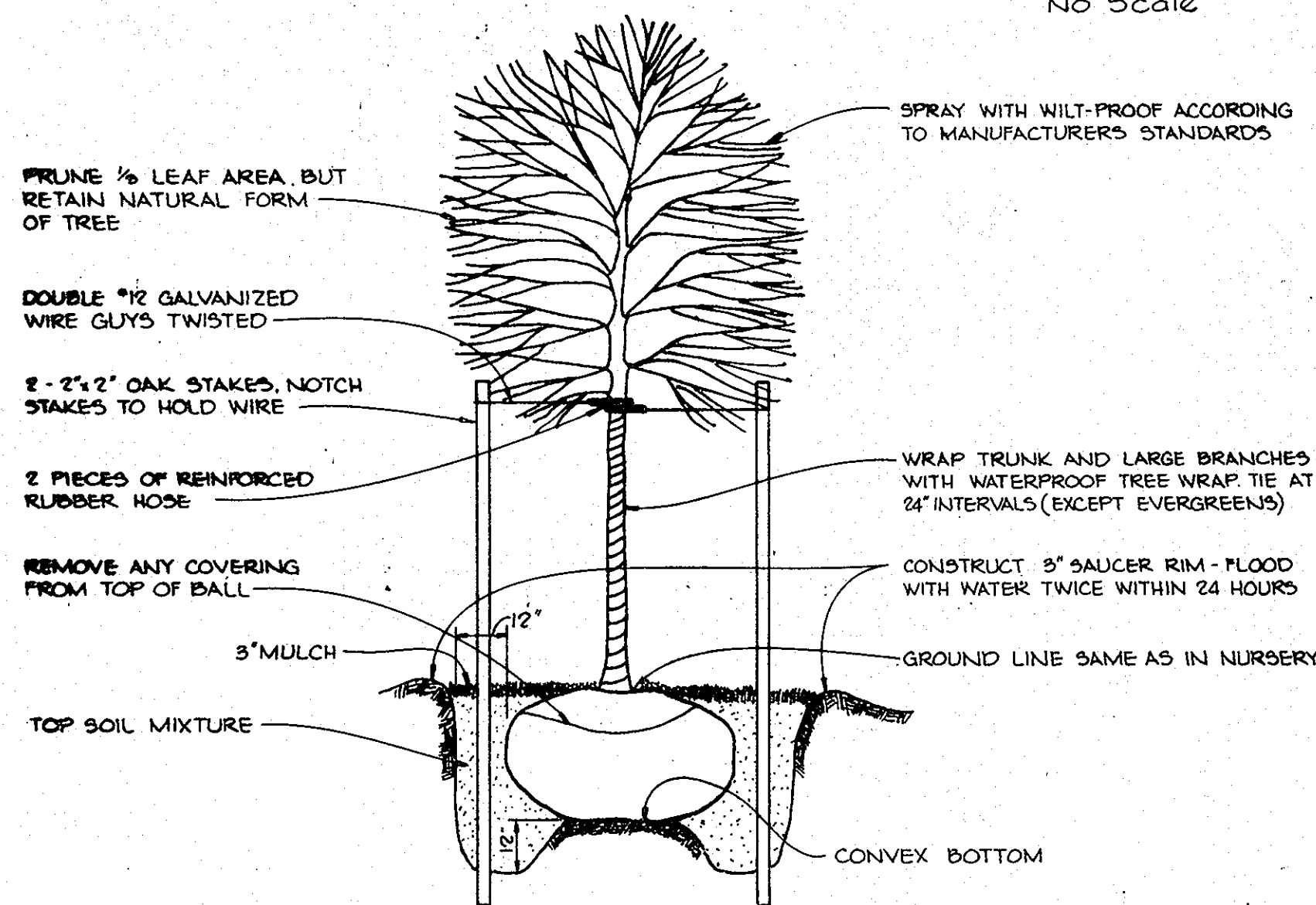
TYPICAL HANDICAPPED RAMP

No Scale



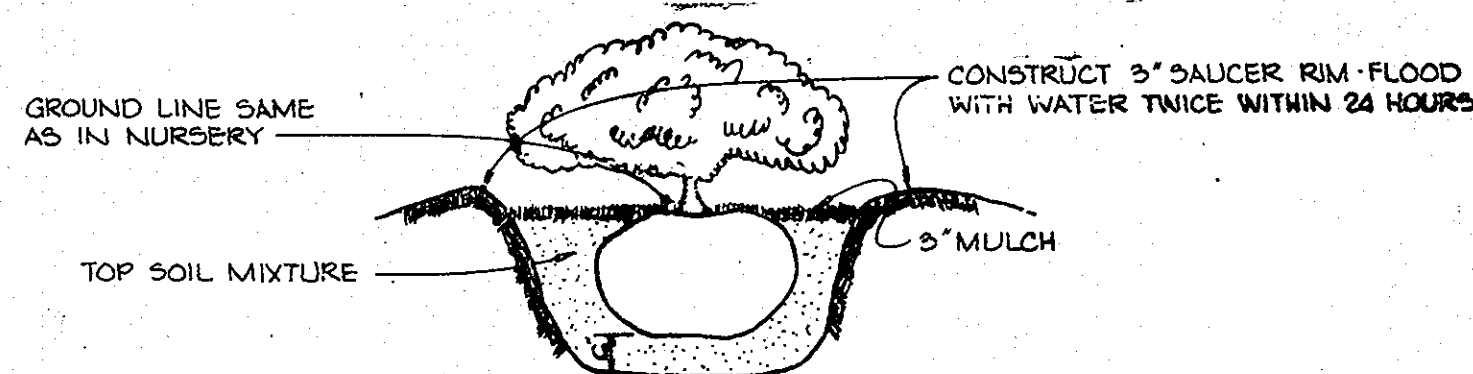
BITUMINOUS DEFLECTOR

No Scale



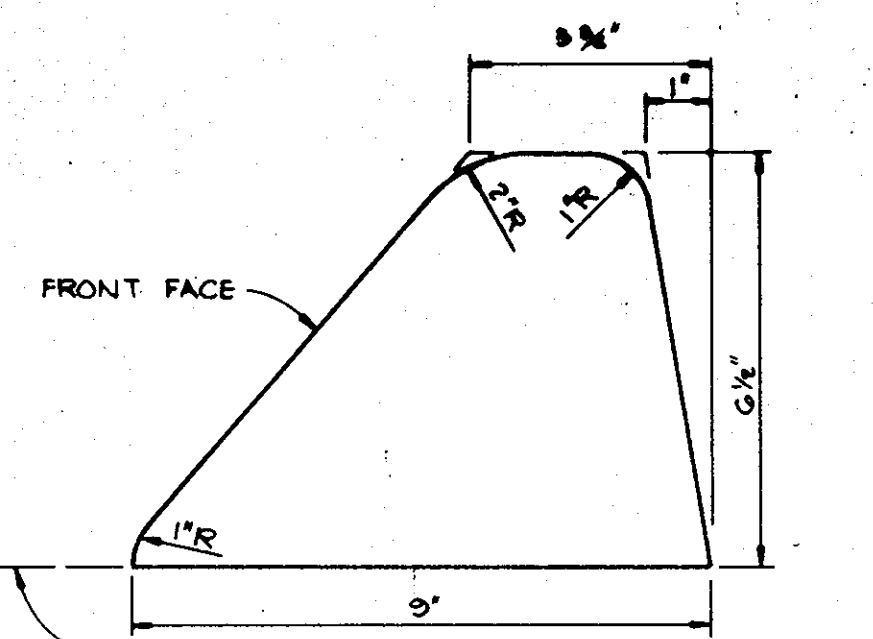
TREE PLANTING DETAIL

No Scale



SHRUB PLANTING DETAIL

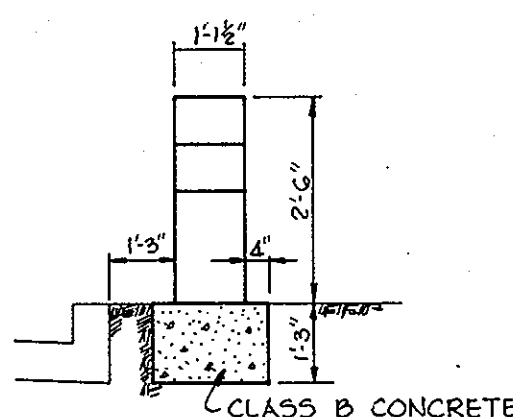
No Scale



HOWARD COUNTY STANDARD (DRAWING D-40 PAGE 35)

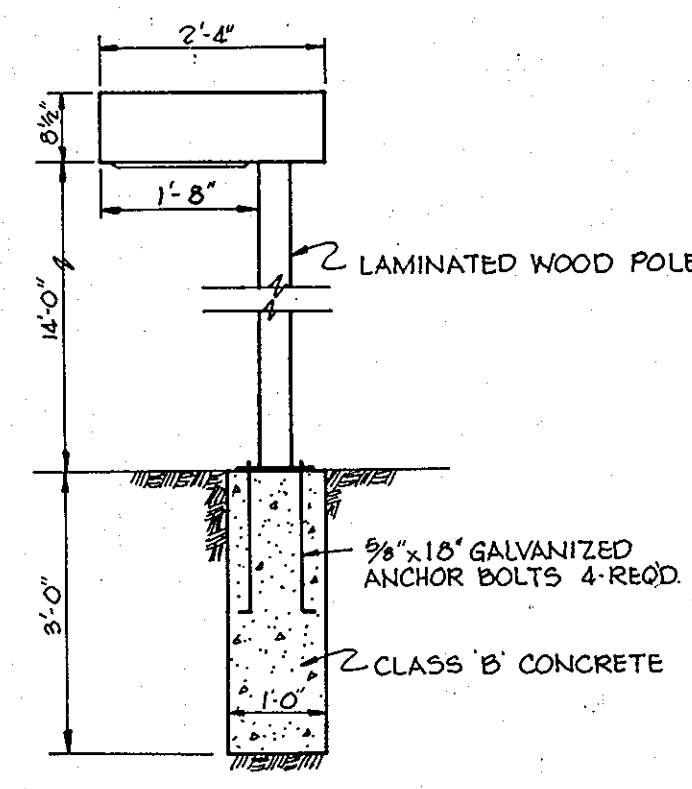
BITUMINOUS CURB

No Scale



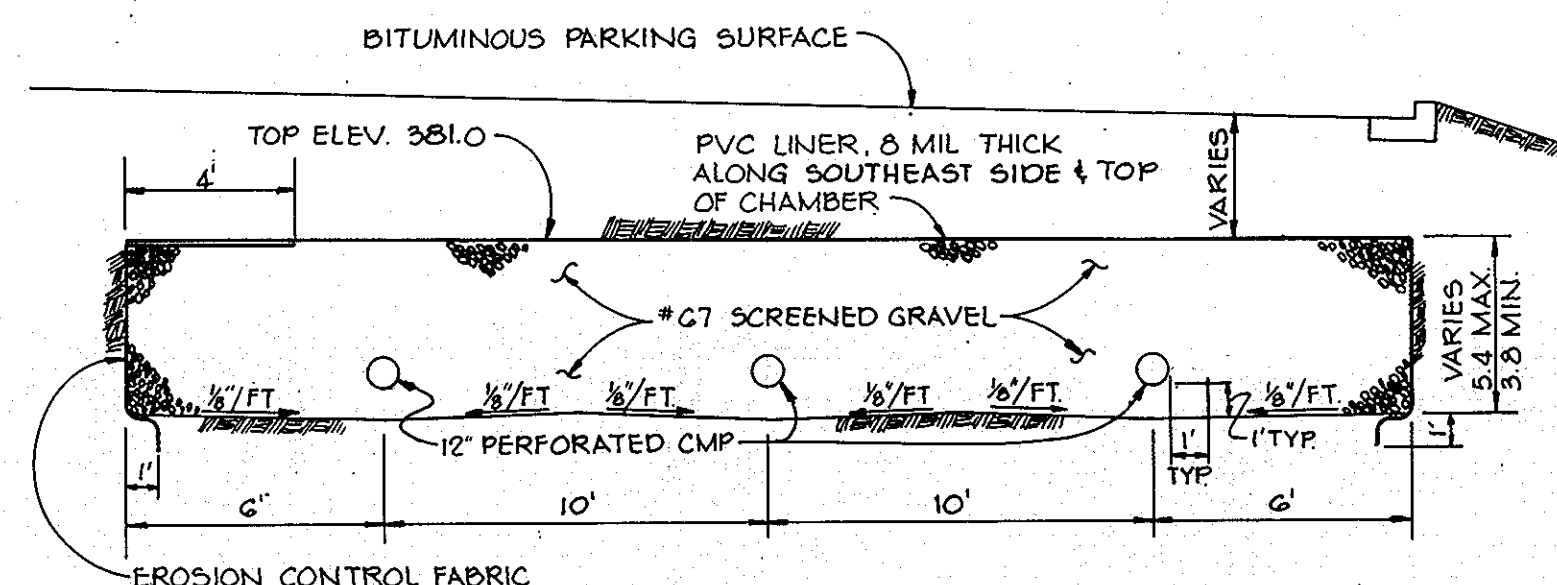
*** DRIVEWAY LIGHTING**

No Scale



*** PARKING LOT LIGHTING**

No Scale

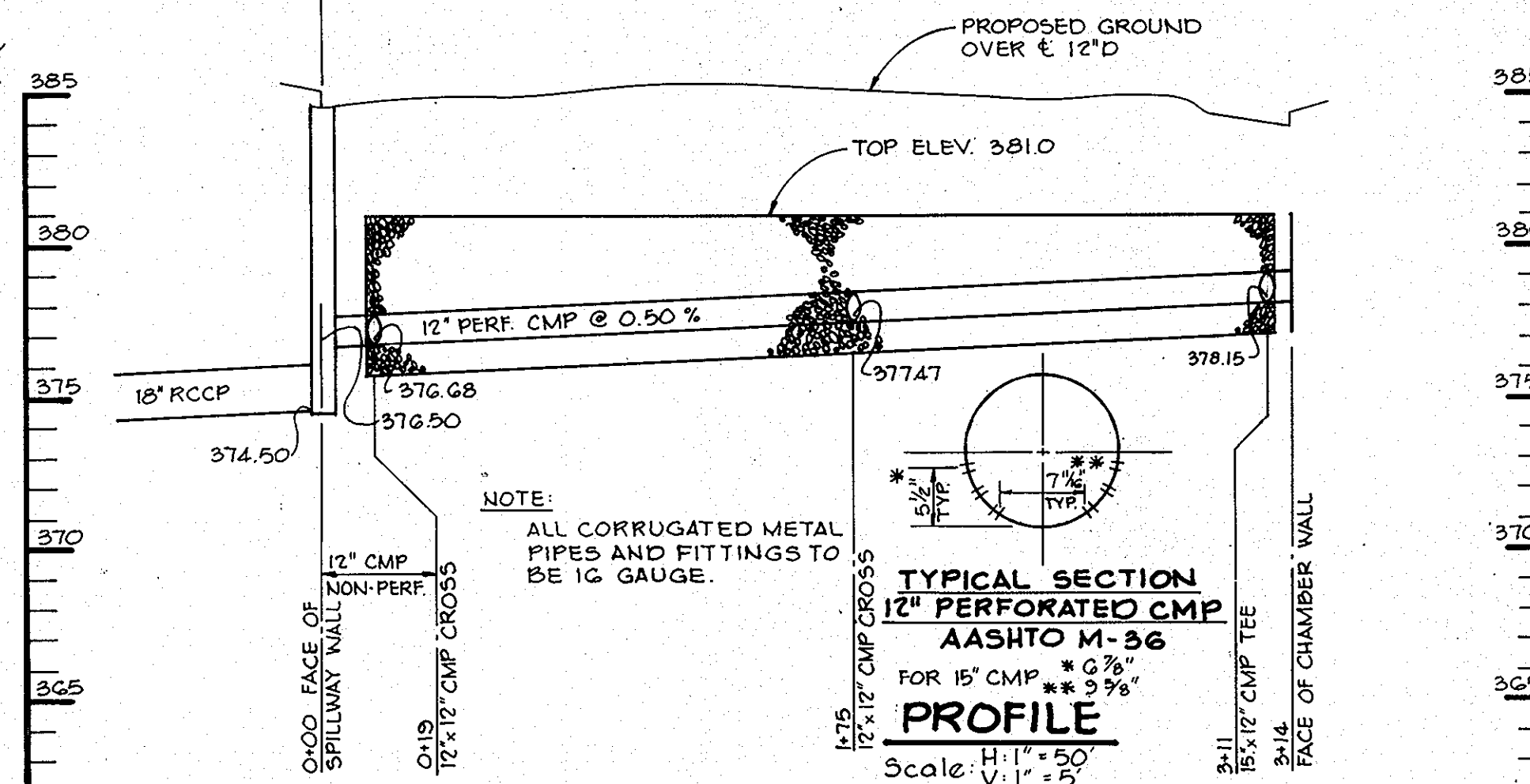


TYPICAL SECTION

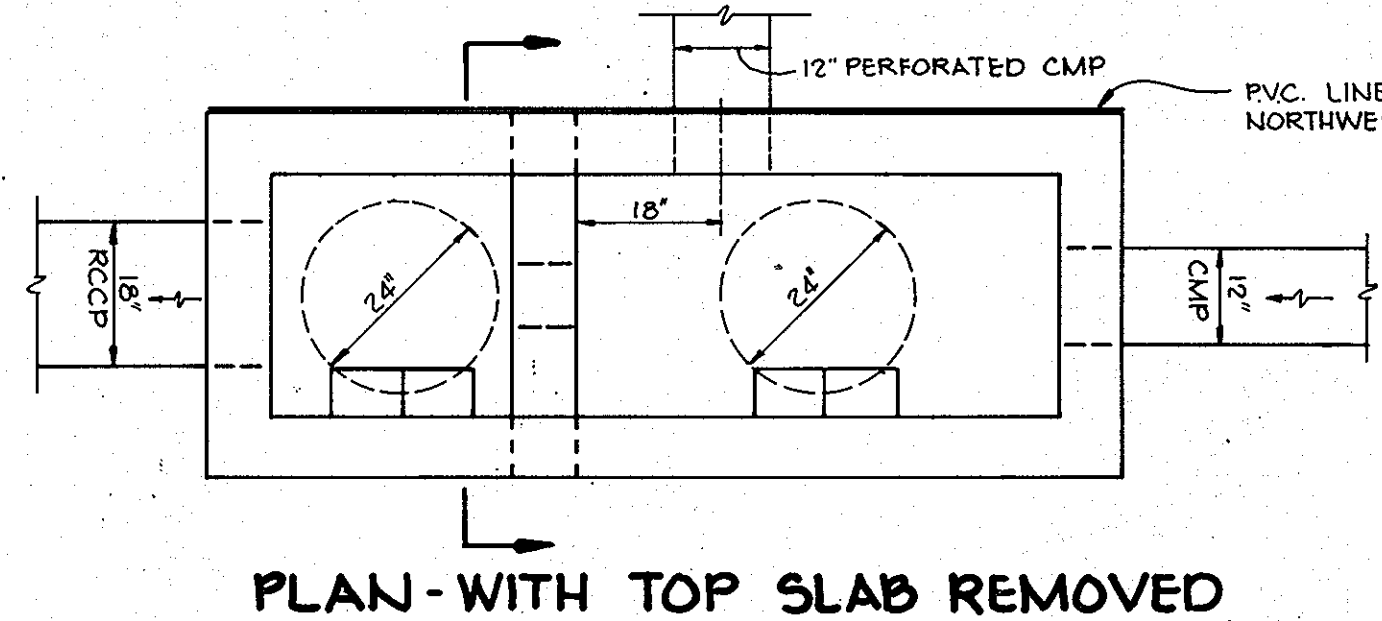
No Scale

NOTES

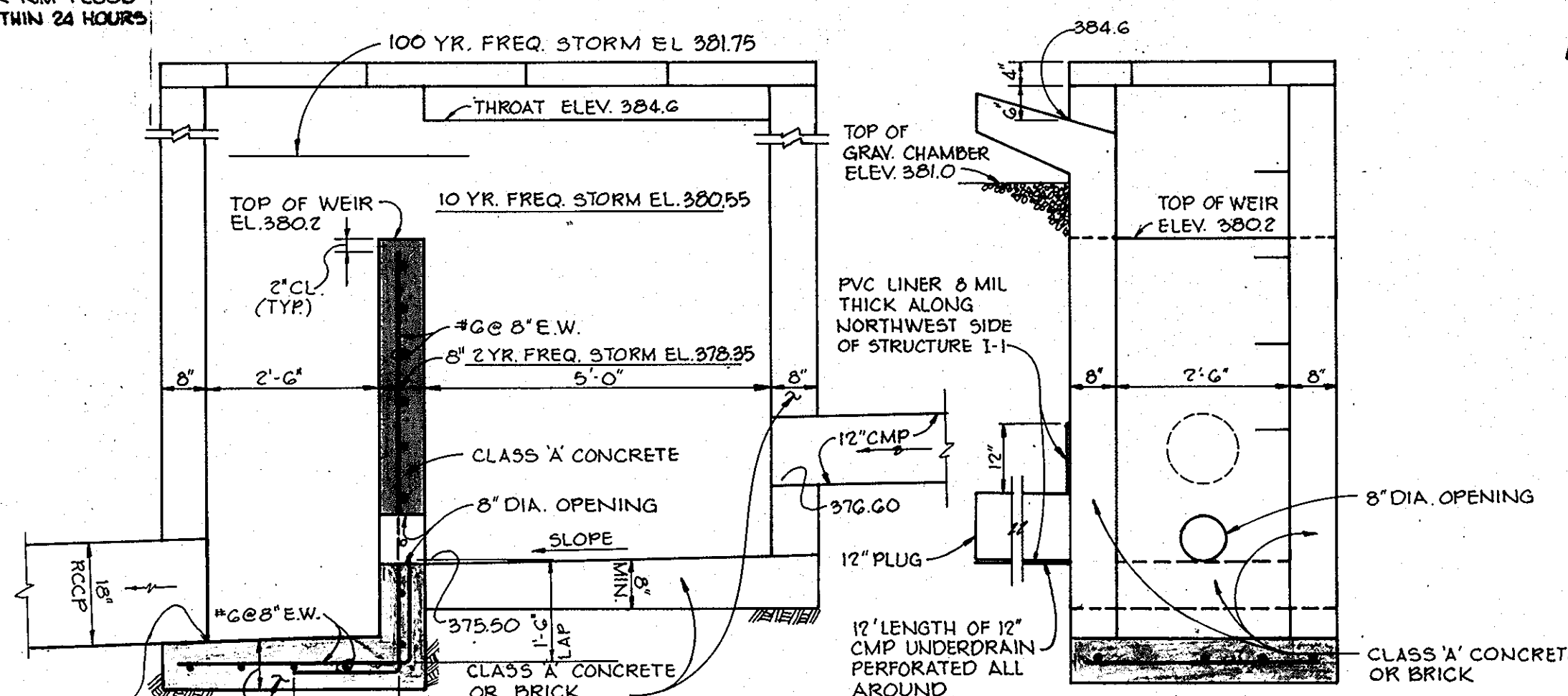
1. ALTERNATING SECTIONS OF PERFORATED CMP SHALL BE ROTATED 180°
2. PLACE 12" ENVELOPE OF #2 SMALL STONE AROUND PERFORATED PIPE



GRAVEL STORAGE CHAMBER



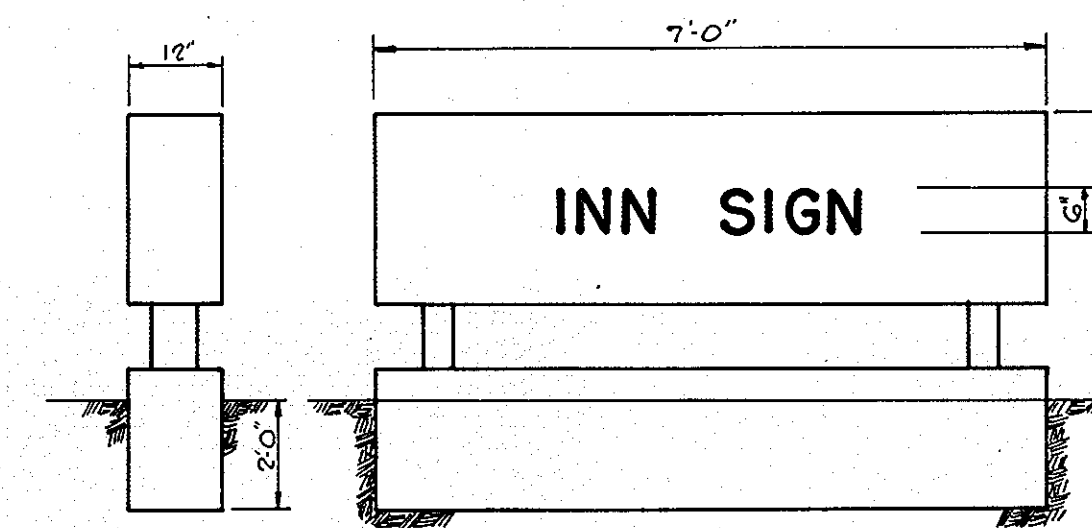
PLAN - WITH TOP SLAB REMOVED



ELEVATION

STORM WATER MANAGEMENT CONTROL STRUCTURE "I-1"

(MODIFIED A-5 INLET - SEE HOWARD COUNTY STANDARD DETAIL G4-A, PAGE 113A)



END VIEW FRONT VIEW

ENTRY SIGN DETAIL

No Scale

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

Ray J. Rubin 9-5-80
 U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED *William J. Howe* 9-5-80
 HOWARD S.C.D. DATE

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

Jaym Boyler 9-8-80
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Thomas L. Harris 9-8-80
 PLANNING DIRECTOR DATE

Phillip Muselman 9-5-80
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Healy F. Nemmy 9-8-80
 DIRECTOR DATE

William E. Ryan 9-8-80
 CHIEF, BUREAU OF ENGINEERING DATE

8-30-80 Δ REVISED AS PER H.C. COMMENTS DATED 8-29-80

7-11-80 Δ REVISED AS PER H.C. COMMENTS DATED 6-5-80

OWNER/DEVELOPER
 SOUZA CORPORATION
 1000 CENTURY PLAZA
 SUITE 321
 COLUMBIA, MARYLAND 21044

PROJECT: **TWIN KNOLLS INN**

AREA: TAX MAP NO. 30
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: DETAILS

Riemer - Tracy & Associates, Inc.
 8859 Baltimore National Pike
 Ellicott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

DATE: 9-3-80
 DESIGNED BY: J.K.T.

DRAWN BY: R.J.W.

PROJECT NO: 0580

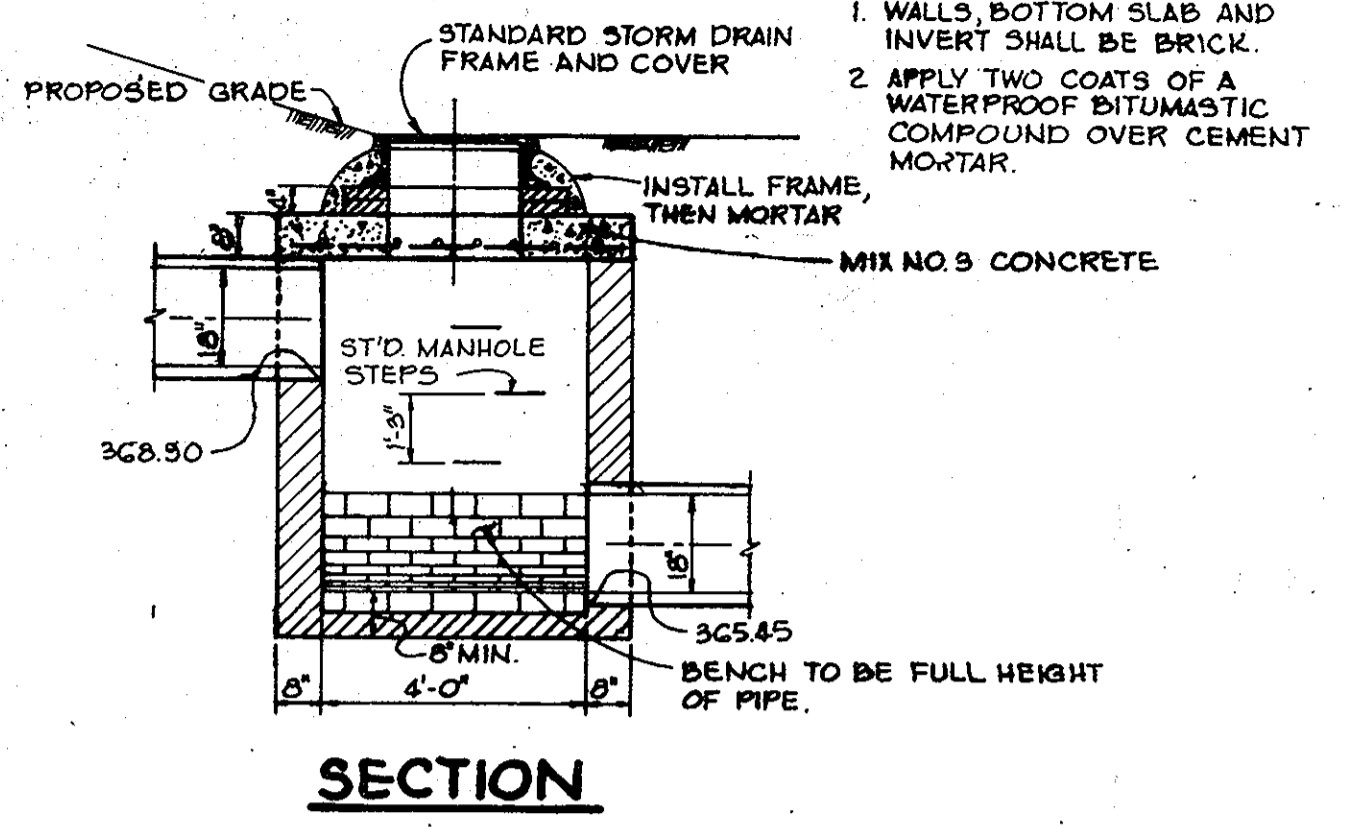
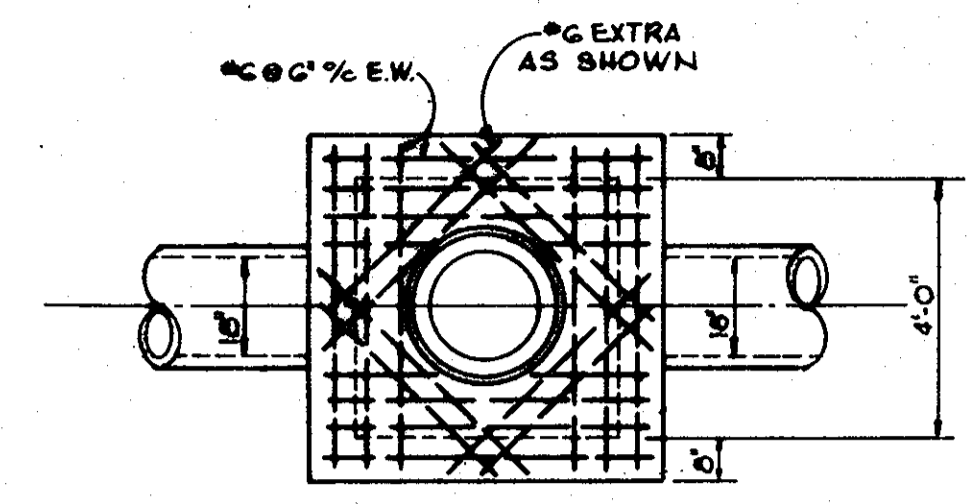
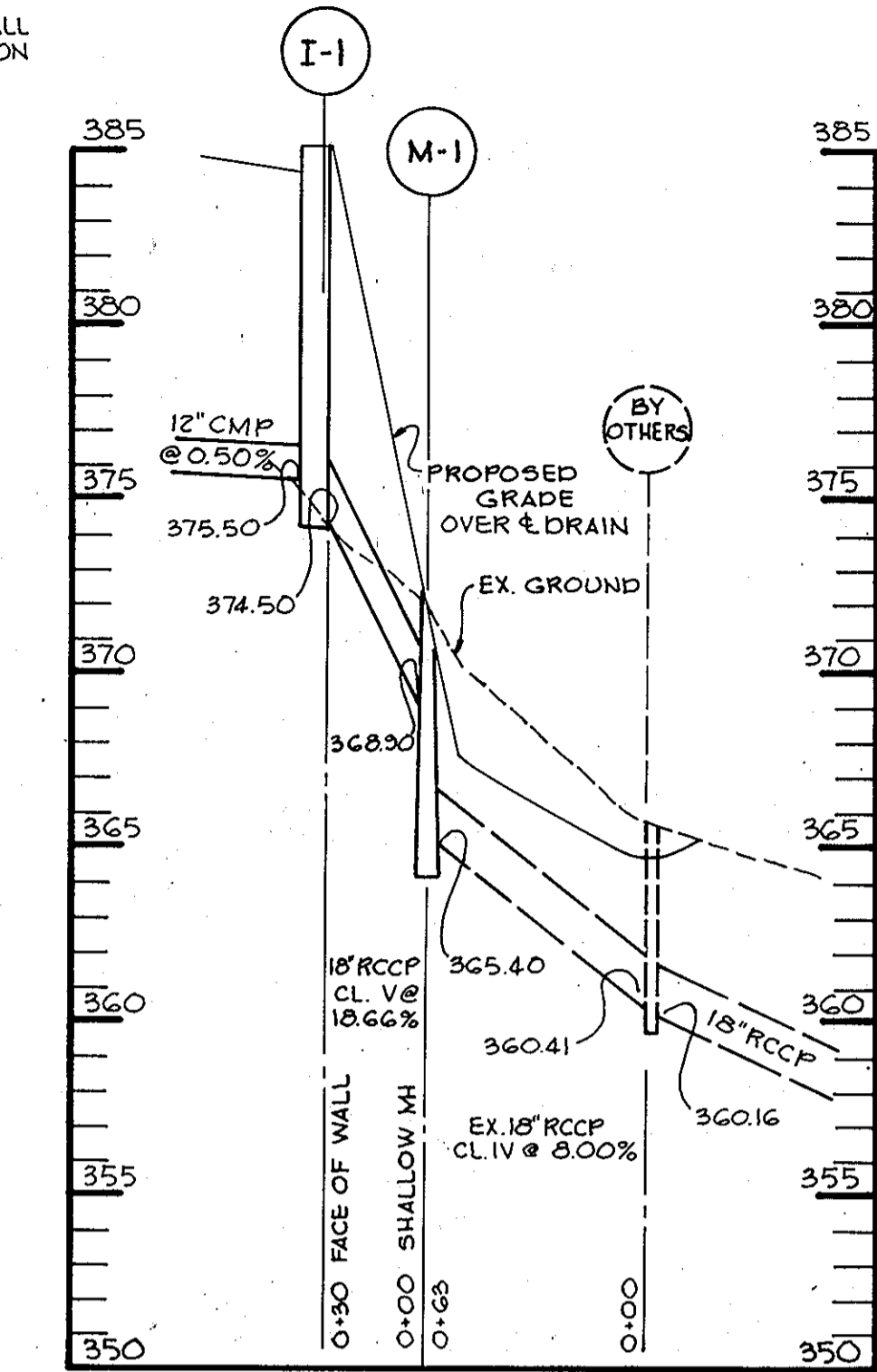
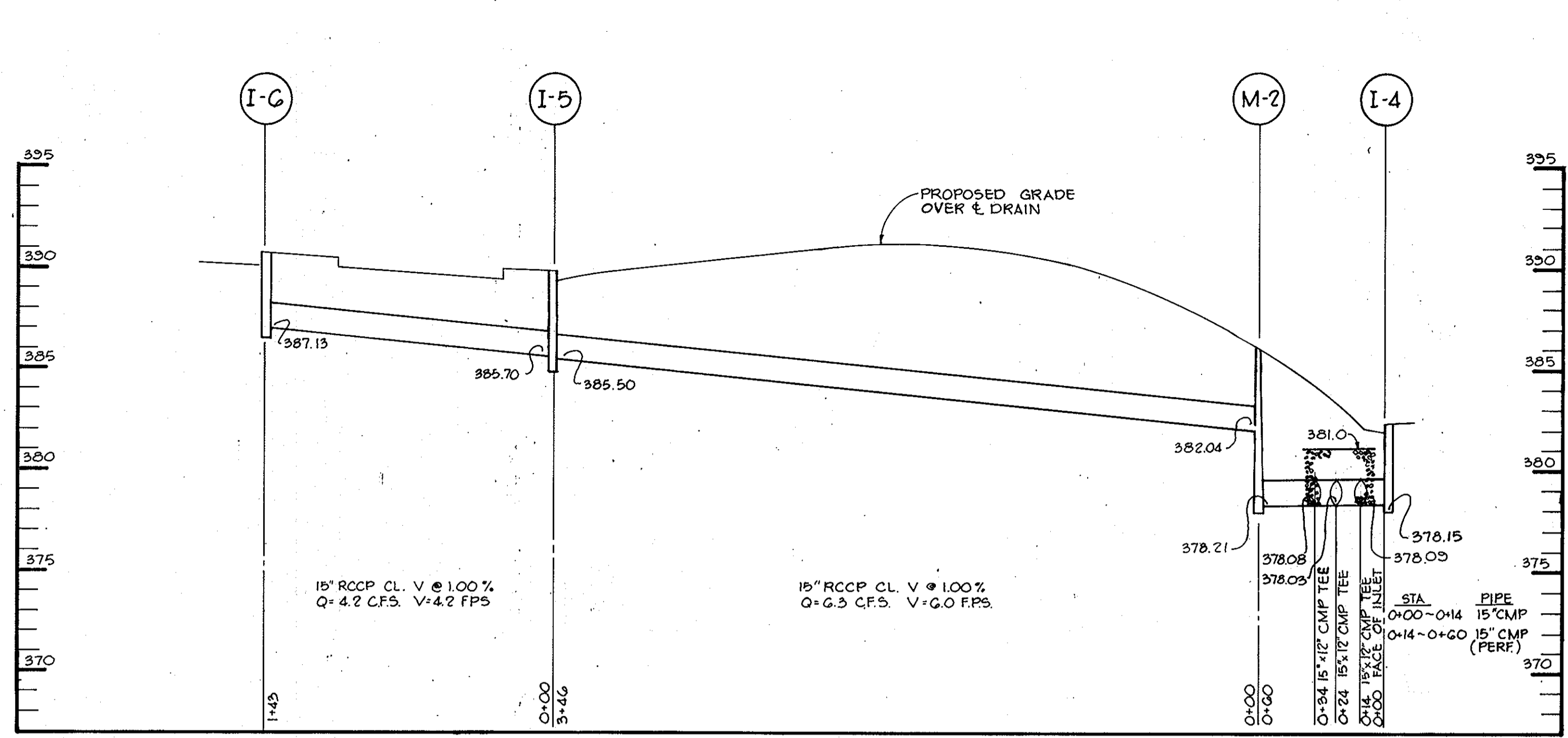
DATE: 5-12-80

SCALE: AS SHOWN

DRAWING NO. 3 OF 7

PROFESSIONAL ENGR. NO. 9566
 SDP-80-140

NOTE:
PROVIDE 4"x8" VENT OPENING IN INLET WALL
ADJACENT TO GRAVEL CHAMBER AT ELEVATION
381.0 IN INLETS 1-2, 1-3, 1-4



SHALLOW MANHOLE DETAIL M-1
No Scale

NOTES:
1. WALLS, BOTTOM SLAB AND
INVERT SHALL BE BRICK.
2. APPLY TWO COATS OF
WATERPROOF BITUMASTIC
COMPOUND OVER CEMENT
MORTAR.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 8-29-80
JUM

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Henry F. Neunoy 9-8-80
DIRECTOR DATE

William S. Pety 9/8/80
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
AND ZONING.

Thomas J. Haning 9-8-80
PLANNING DIRECTOR DATE

Phillip Musick 9-5-80
CHIEF, DIVISION OF LAND
DEVELOPMENT DATE

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

Joseph Boyd 9-8-80
COUNTY HEALTH OFFICER DATE

8-30-80 Δ REVISED AS PER H.C. COMMENTS DATED 8-29-80

7-11-80 Δ REVISED AS PER H.C. COMMENTS DATED 6-5-80

DATE NO. REVISION

OWNER/DEVELOPER
SOUZA CORPORATION
1000 CENTURY PLAZA
SUITE 321
COLUMBIA, MARYLAND 21044

PROJECT: **TWIN KNOLLS INN**

AREA TAX MAP NO. 30
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **PROFILES AND DETAILS**

Riemer Tracy & Associates, Inc.
8659 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

9.3.80
DESIGNED BY: J.K.T.

DRAWN BY: R.J.W.

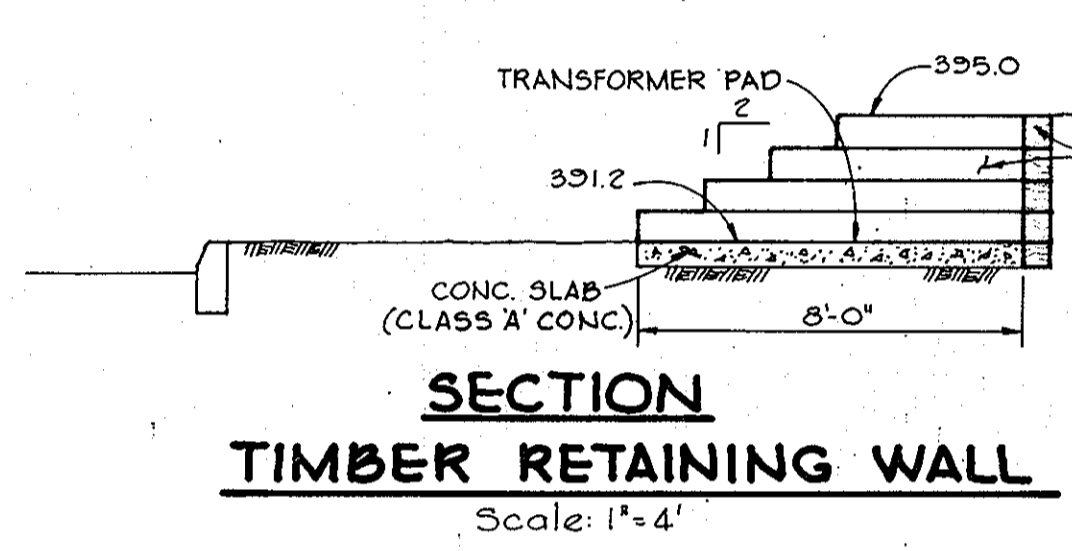
PROJECT NO: 0580

DATE: 5-12-80

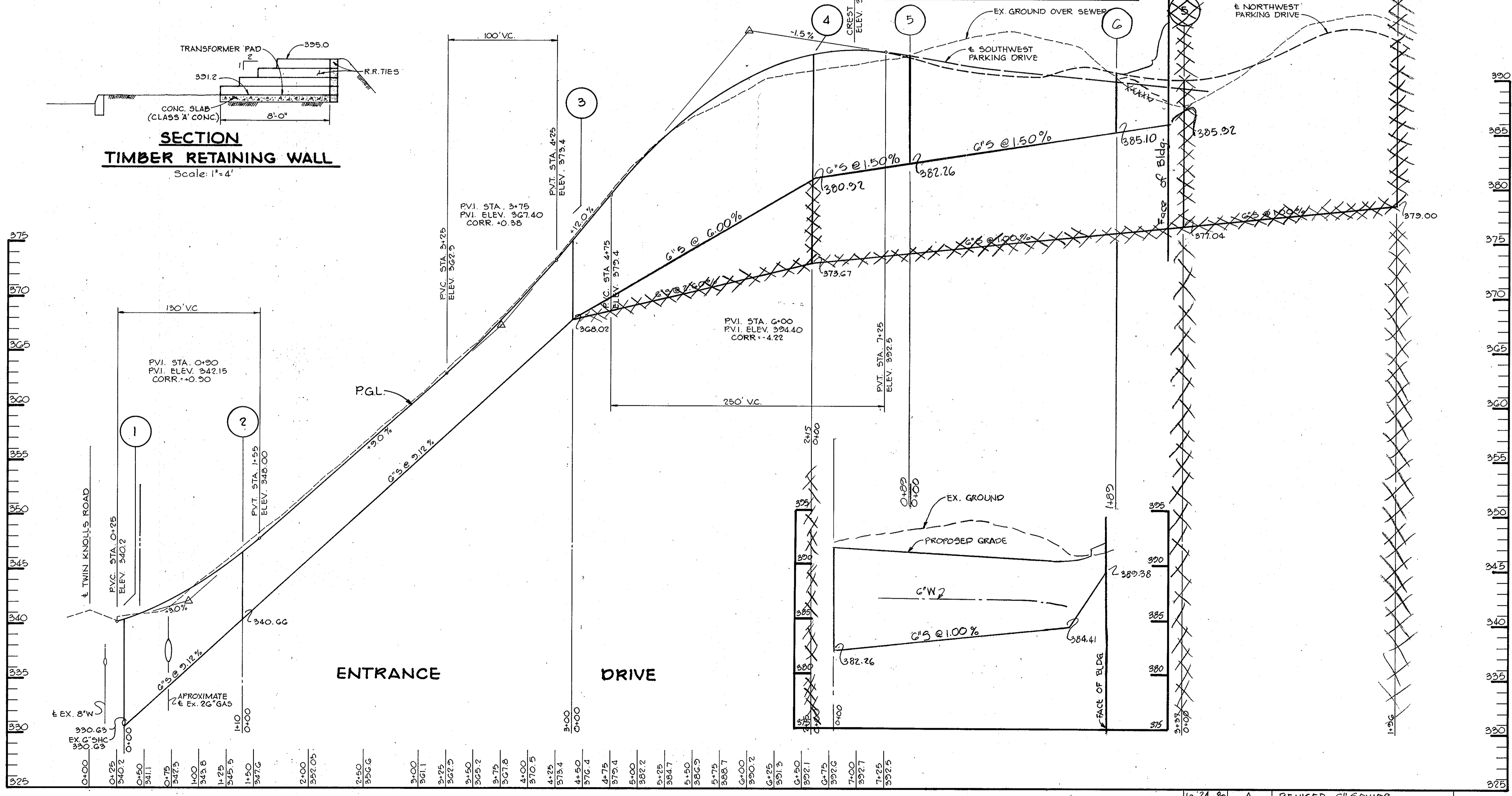
SCALE: H: 1"=50'
V: 1"=5'

DRAWING NO. 4 OF 7

SDP-80-140



**SECTION
TIMBER RETAINING WALL**
Scale: 1"=4'



DATE	NO.	REVISION
10-24-80	Δ	REVISED G" SEWER

MARYLAND BLUEPRINT CO., INC.

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	MODIFIED A-5 INLET	376.50	374.50	385.33	SEE DETAIL DWG. NO. 3
I-2	A-5 INLET		375.59	385.33	H.C. STD. 64-A
I-3	A-5 INLET		376.81	384.93	H.C. STD. 64-A
I-4	A-5 INLET		378.15	382.43	H.C. STD. 64-A
I-5	A-5 INLET	389.70	385.50	390.33	H.C. STD. 64-A
I-6	A-5 INLET		387.13	391.15	H.C. STD. 64-A
M-1	SHALLOW MH	368.90	365.40	372.1	SEE DETAIL DWG. NO. 4
M-2	STD. 48" MANHOLE	382.04	378.21	386.25	H.C. STD. D-103

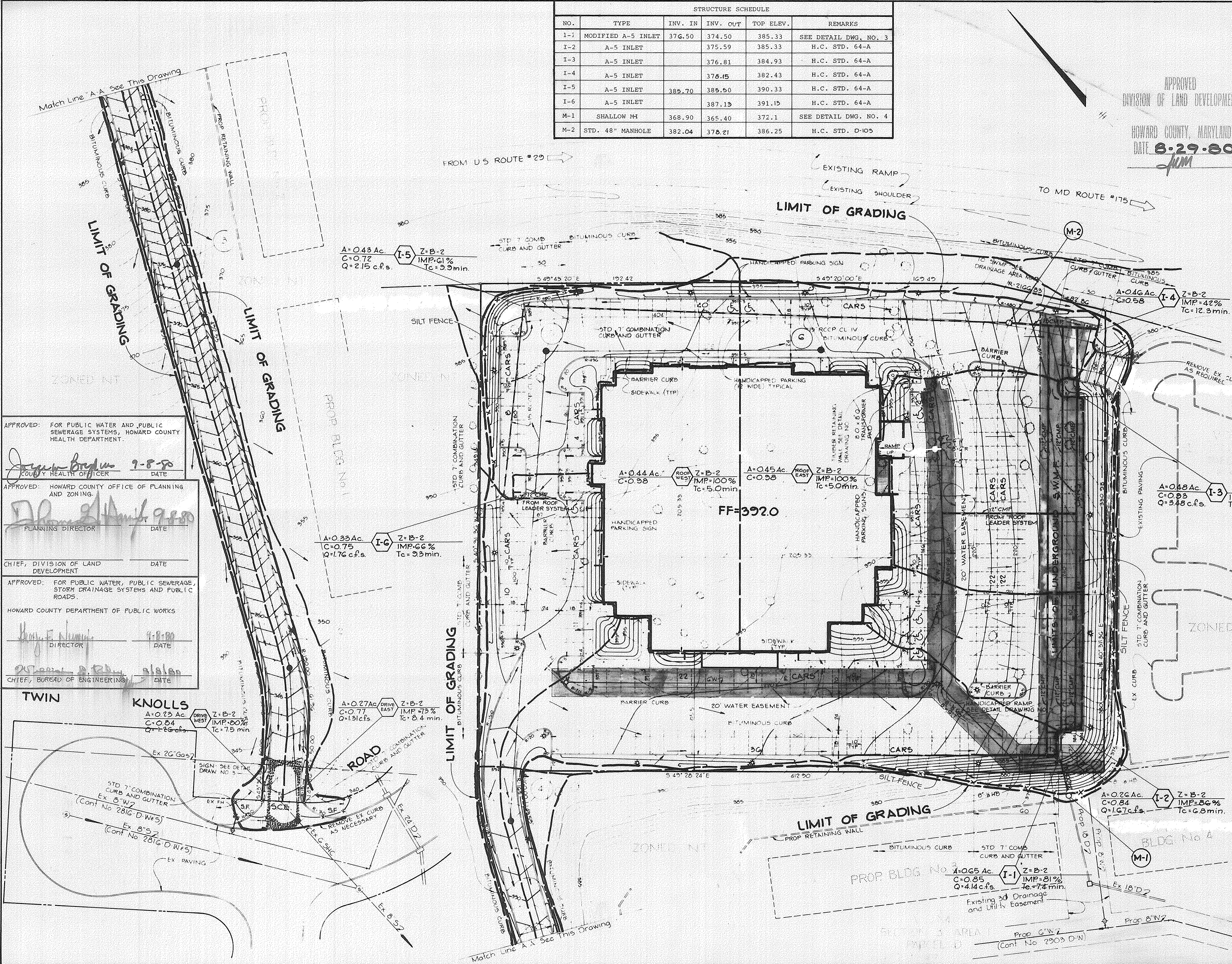
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE **8-29-80**
JJM

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Anthony Souza 9/3/80
DEVELOPER, ANTHONY SOUZA 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 HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
James K. Tracy 9-3-80
ENGINEER, JAMES K. TRACY DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
William T. Rowe 9-5-80
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
William T. Rowe 9-5-80
APPROVED HOWARD S.C.D. DATE



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph Bruden 9-8-80
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
William T. Rowe 9-8-80
PLANNING DIRECTOR DATE

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Henry E. Nunn 9-8-80
DIRECTOR DATE

William T. Rowe 9-8-80
CHIEF, BOARD OF ENGINEERING DATE

DATE	NO.	REVISION
8-30-80	1	REVISED AS PER H.C. COMMENTS DATED 8-29-80
7-11-80	2	REVISED AS PER H.C. COMMENTS DATED 6-5-80

OWNER/DEVELOPER
SOUZA CORPORATION
1000 CENTURY PLAZA
SUITE 321
COLUMBIA, MARYLAND 21044

PROJECT
TWIN KNOLLS INN

AREA
TAX MAP NO 30
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DRAINAGE AREA MAP AND
SEDIMENT CONTROL PLAN

Riemer, Tracy & Associates, Inc.
8659 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

DATE: 9-3-80
DESIGNED BY: JKT
DRAWN BY: RJW
PROJECT NO: 0580
DATE: 5-12-80
SCALE: 1" = 30'
DRAWING NO: 5 OF 7

PROFESSIONAL ENGR. NO. 9566
SDP-80-140

SEDIMENT CONTROL CONSTRUCTION NOTES
GENERAL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2070).
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- 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.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.
- SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRUBBING REMAINDER OF SITE.

TEMPORARY SEEDING

AREA TO BE SEEDD SHALL BE RECENTLY LOOSENEED, IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.

- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
- WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
- WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
- MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS. PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

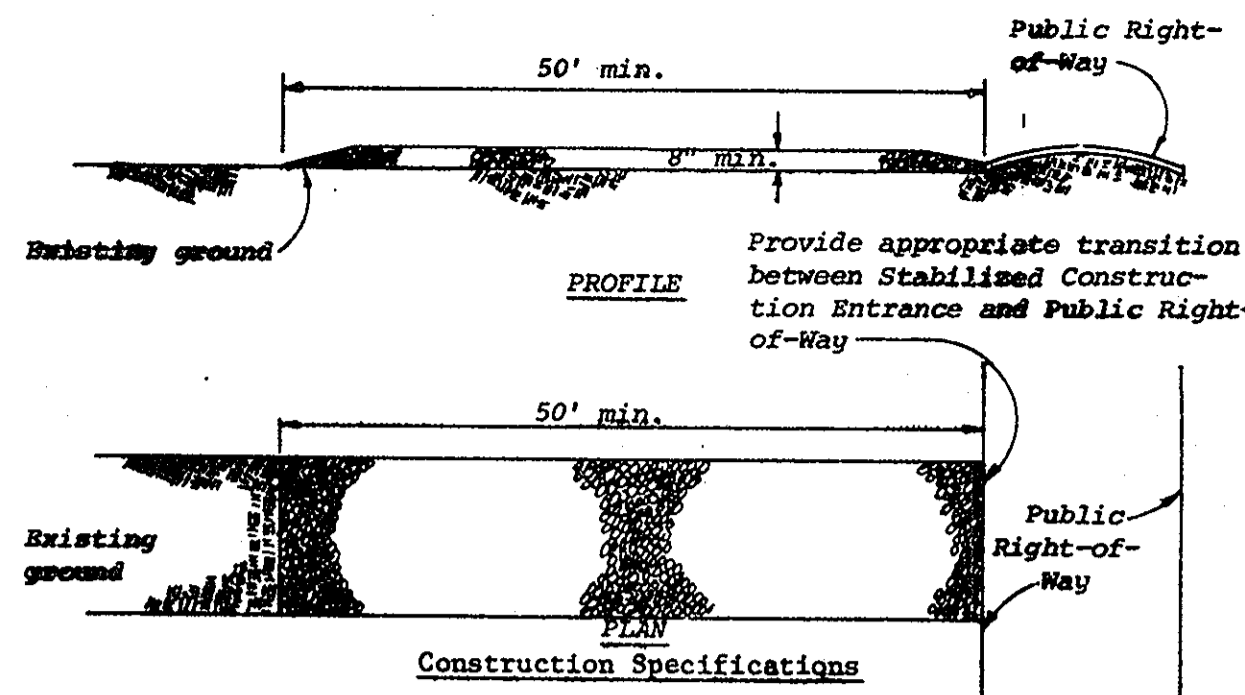
PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
- APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
- SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS - 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
- MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
- SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE.
- ROUGH GRADE SITE WITHIN LIMIT OF GRADING.
- INSTALL STORM WATER MANAGEMENT FACILITY AND STORM DRAIN PIPELINES.
- CONSTRUCT ALL INLETS AND PLACE SCREEN AND GRAVEL AT INLET THROAT. SEE DETAIL THIS DRAWING.
- COMPLETE ALL SITE CONSTRUCTION AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- UPON APPROVAL BY THE SOIL CONSERVATION DISTRICT, ALL SEDIMENT CONTROL FACILITIES SHALL BE REMOVED AND SEEDD PER PERMANENT SEEDING NOTES.

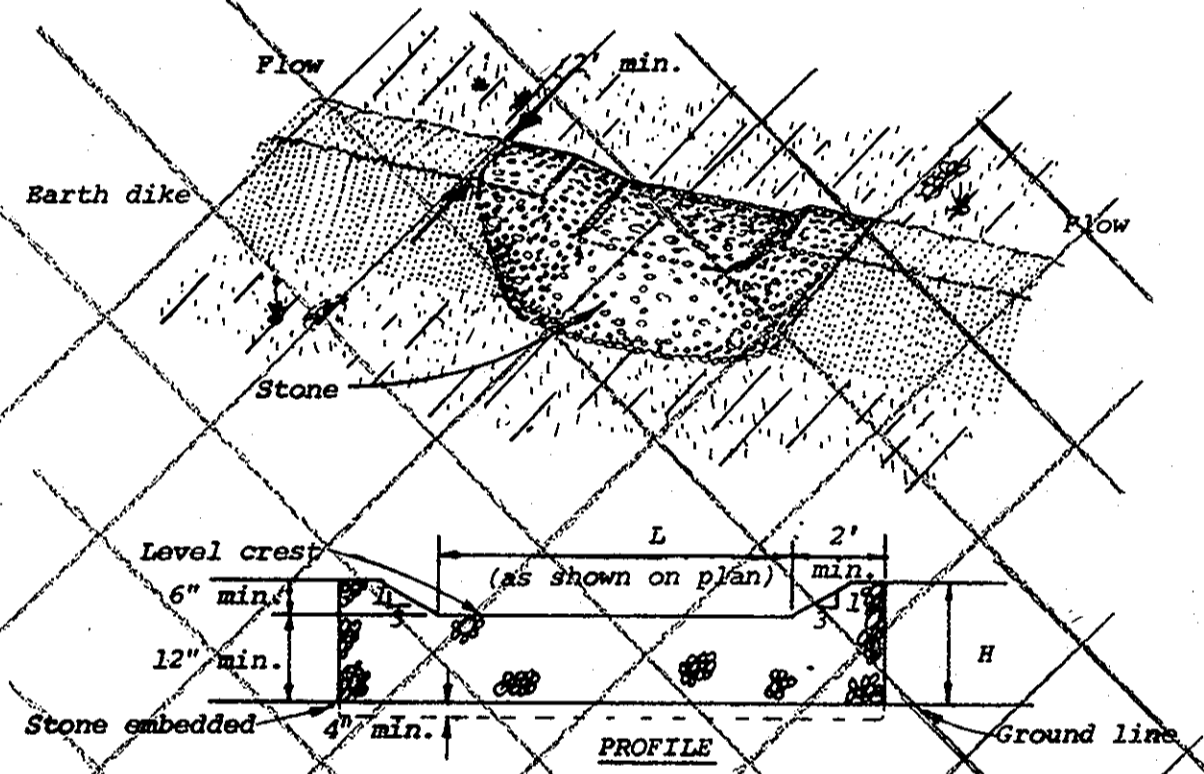


- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

Standard Symbol SCE

STABILIZED CONSTRUCTION ENTRANCE

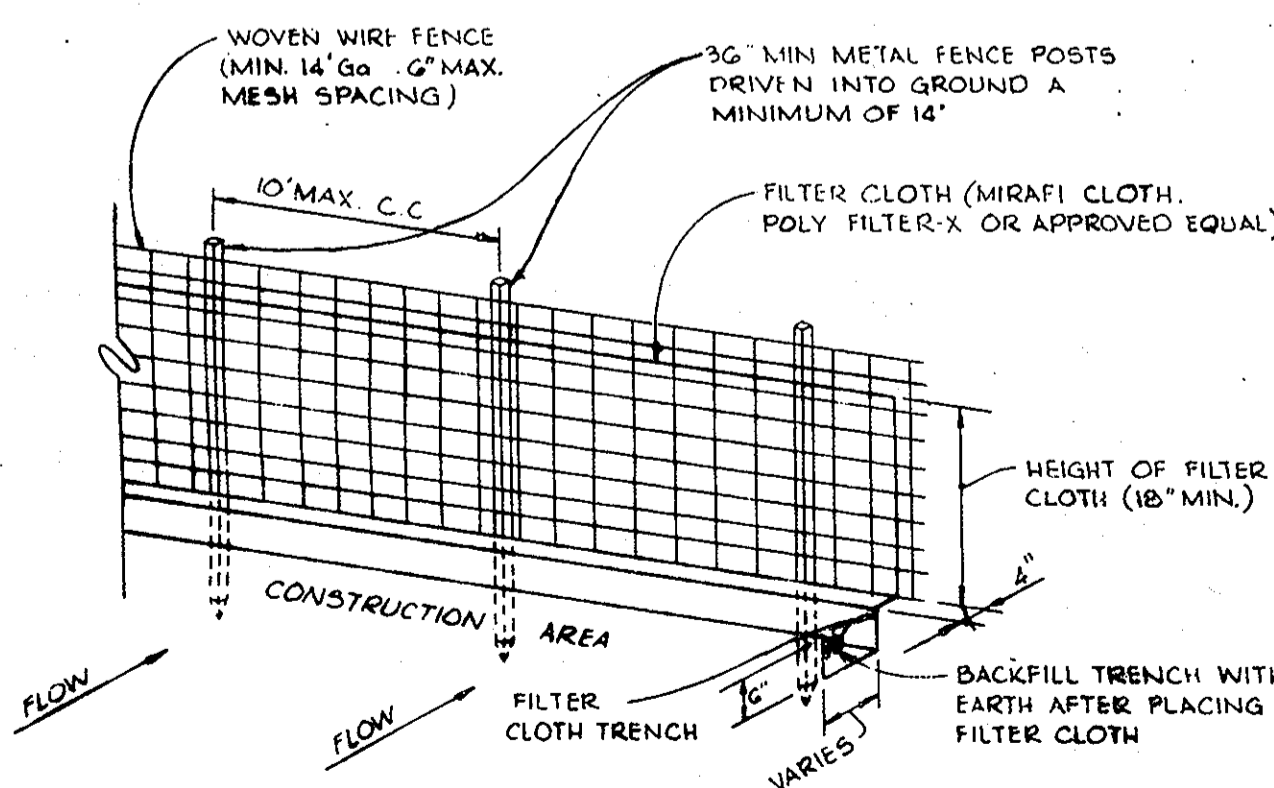
No Scale



- Construction Specifications**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
 - The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the barth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
 - The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

STONE OUTLET STRUCTURE

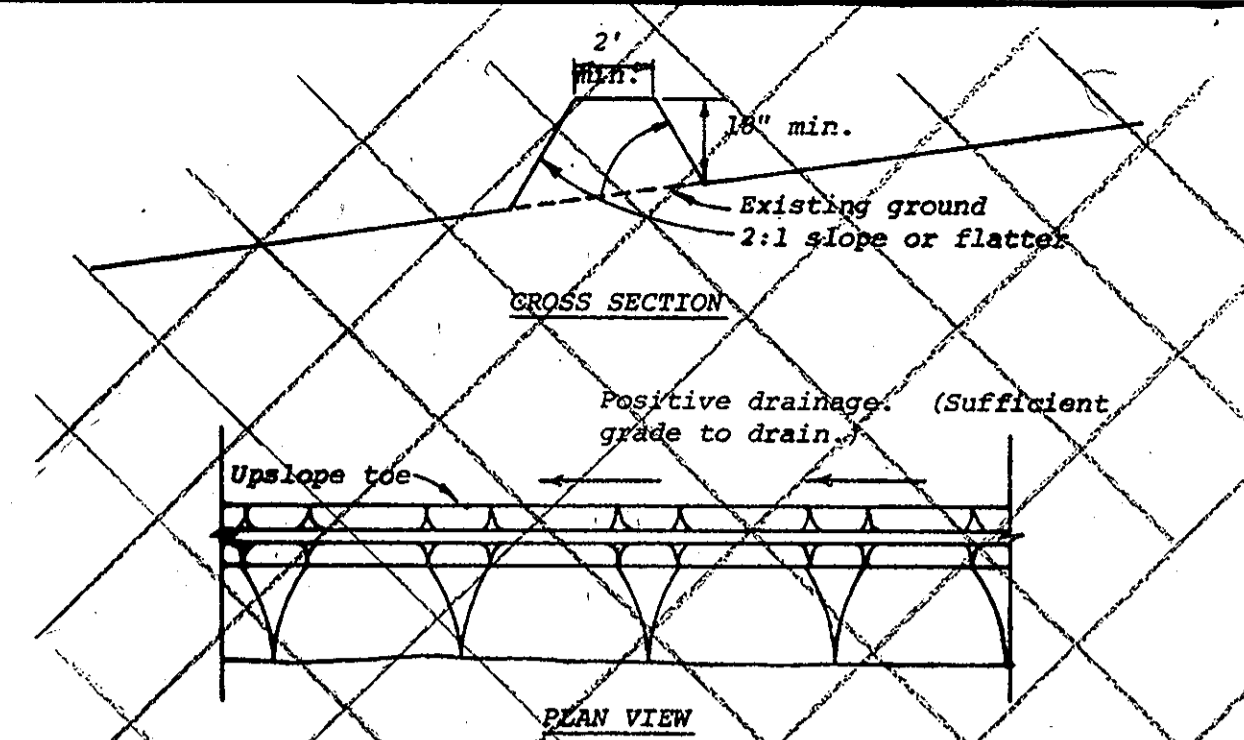
No Scale



- NOTES:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24\"/>
 - SILT FENCE TO BE PLACED IN LIEU OF STRAIN BALES AND/OR DIVERSION DIKES AT THE OPTION OF THE DEVELOPER.

SILT FENCE

No Scale

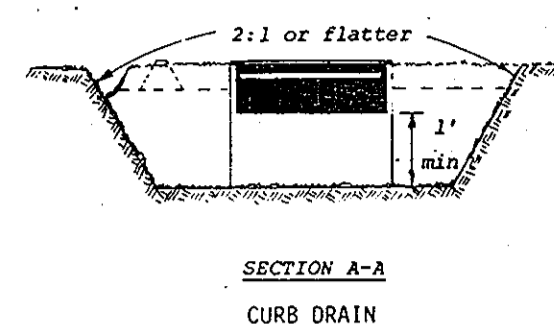
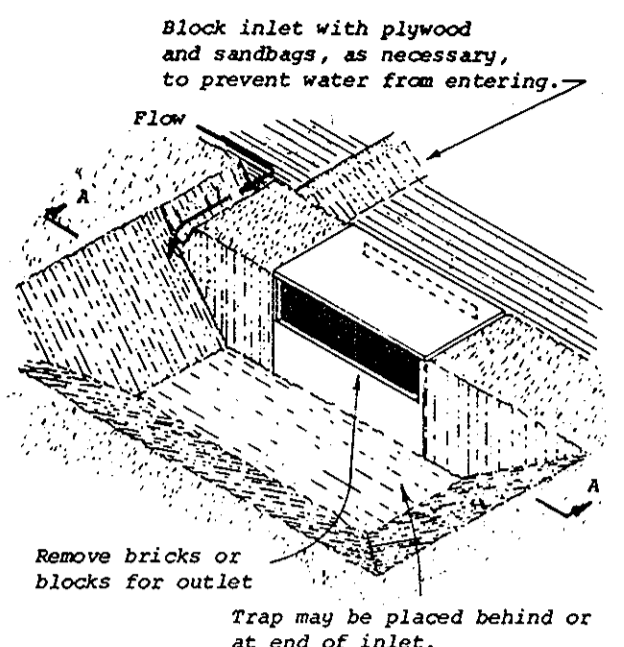


- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - All diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
 - Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
 - Periodic inspection and required maintenance shall be provided.

Standard Symbol PD

PERIMETER DIKE

No Scale



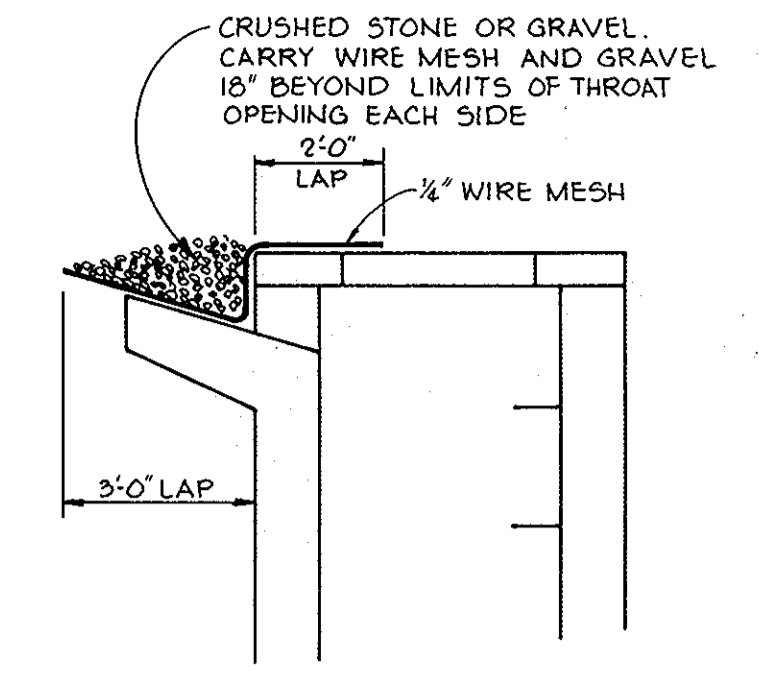
NOTE: Where curb is in place, provide a 1 ft. wide opening in the curb or use a sandbag dam to force water over the curb to the trap.

CONSTRUCTION SPECIFICATIONS

- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
- All cut and fill slopes shall be 2:1 or flatter.

INLET SEDIMENT TRAP

No Scale



TYPICAL INLET STONE FILTER

No Scale

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Jocelyn Boylum 9-8-80
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Thomas Hamig 9-8-80
PLANNING DIRECTOR DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Henry F. Nemmy 9-8-80
DIRECTOR DATE

John W. ... 9/18/80
CHIEF, BUREAU OF ENGINEERING DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.
William T. Rowe 9-5-80
U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED *William T. Rowe* 9-5-80
HOWARD S.C.D. DATE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
Anthony Souza 9/3/80
DEVELOPER - ANTHONY SOUZA 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 K. Tracy 9-3-80
ENGINEER - JAMES K. TRACY DATE

OWNER/DEVELOPER
SOUZA CORPORATION
1000 CENTURY PLAZA
SUITE 321
COLUMBIA, MARYLAND 21044

PROJECT: **TWIN KNOLLS INN**
AREA: TAX MAP NO 30
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TITLE: SEDIMENT CONTROL DETAILS

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE: 8-29-80
J. ...

9-3-80
DATE

DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO: 0580
DATE: 5-12-80
SCALE: AS SHOWN
DRAWING NO. G OF 7
SDP-80-140

NO.	STRUCTURE	DRAINAGE AREA (AC.)	DISTURBED AREA (AC.)	VOLUME (CU. YD.)	CLEAN OUT ELEVATION	DEPTH TO CREST	BOTTOM ELEVATION	HEIGHT (H)	BOTTOM DIMENSIONS	
1	SED. TRAP W/SOS	1.09	1.09	76	73	372.5	3.0	371.0	3.0	26' x 26'
2	SED. TRAP W/SOS	1.22	1.22	78	75	375.5	3.0	377.8	3.5	26' x 27'
	SED. TRAP W/SOS	1.31	1.31	83	88	380.2	3.0	384.8	3.5	26' x 29'

NOTE: BUFFERING AND LANDSCAPING

Plant material utilized on the buffer strip along the side of the site adjacent to the Centennial Contractors site shall include shade trees a minimum of three inches in caliper and fifteen to twenty feet in height, evergreens eight to ten feet in height, shrubs four to six feet high and the planting area shall be mounded thirty to forty inches in height.

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE **8-29-80**
[Signature]

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

[Signature] 9-8-80
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

[Signature] 9-8-80
PLANNING DIRECTOR DATE

[Signature] 9-5-80
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 9-8-80
DIRECTOR DATE

[Signature] 9/8/80
CHIEF, BUREAU OF ENGINEERING DATE

PLANT LIST

DESCRIPTION	SIZE	ROOT	QUANT
SHADE TREES:			
RO Quercus borealis (rubra)	2"-2 1/2" cal	B&B	22
Northern Red Oak			
PO Quercus palustris	2"-2 1/2" cal	B&B	10
Pin Oak			
RM Acer rubrum	2"-2 1/2" cal	B&B	11
Red Maple			
LP Platanus acerifolia	2"-2 1/2" cal	B&B	22
London Plane			
FLOWERING TREES:			
AC Malus-American Beauty	6'-8' ht.	B&B	3
American Beauty Crab			
JC Malus floribunda	6'-8' ht.	B&B	3
Japanese Flowering Crab			
WH Crataegus phaenopyrum	6'-8' ht.	B&B	12
cordata			
Washington Hawthorn			
FD Cornus florida	5'-6' ht.	B&B	3
White Flowering Dogwood			
EVERGREENS:			
AP Pinus nigra	5'-6'	B&B	24
Austrian Pine			
WP Pinus strobus	5'-6'	B&B	91
White Pine			
S Picea Obies	5'-6'	B&B	6
Norway Spruce			
H Tsuga canadensis	5'-6'	B&B	28
Canada Hemlock			
SHRUBS:			
E Evonymus alatus		B&B	60
compactus	36"		
Dwarf Winged Evonymus			
O Chaenomeles japonica	36"	B&B	22
Japanese Quince			
V Viburnum tomentosum	36"	B&B	44
Doublefile Viburnum			
I Ilex crenata compacta	24"	B&B	3
Compact Japanese Holly			
GROUND COVER:			
Evonymus radicans	12"-15"	in pots	66
coloratus			
Purpleleaved Winter-creeper			

8-30-80 REVISOR AS PER H.C. COMMENTS DATED 8-29-80

DATE NO. REVISION

OWNER/DEVELOPER
SOUZA CORPORATION
1000 CENTURY PLAZA
SUITE 321
COLUMBIA, MARYLAND 21044

PROJECT: **TWIN KNOLLS INN**

AREA: TAX MAP NO 30
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **PLANTING PLAN**

Tracy & Associates, Inc.
8650 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 481-2690
Land Planning, Design & Civil Engineering

9-3-80
DATE

DESIGNED BY: JKT, M.G.R.

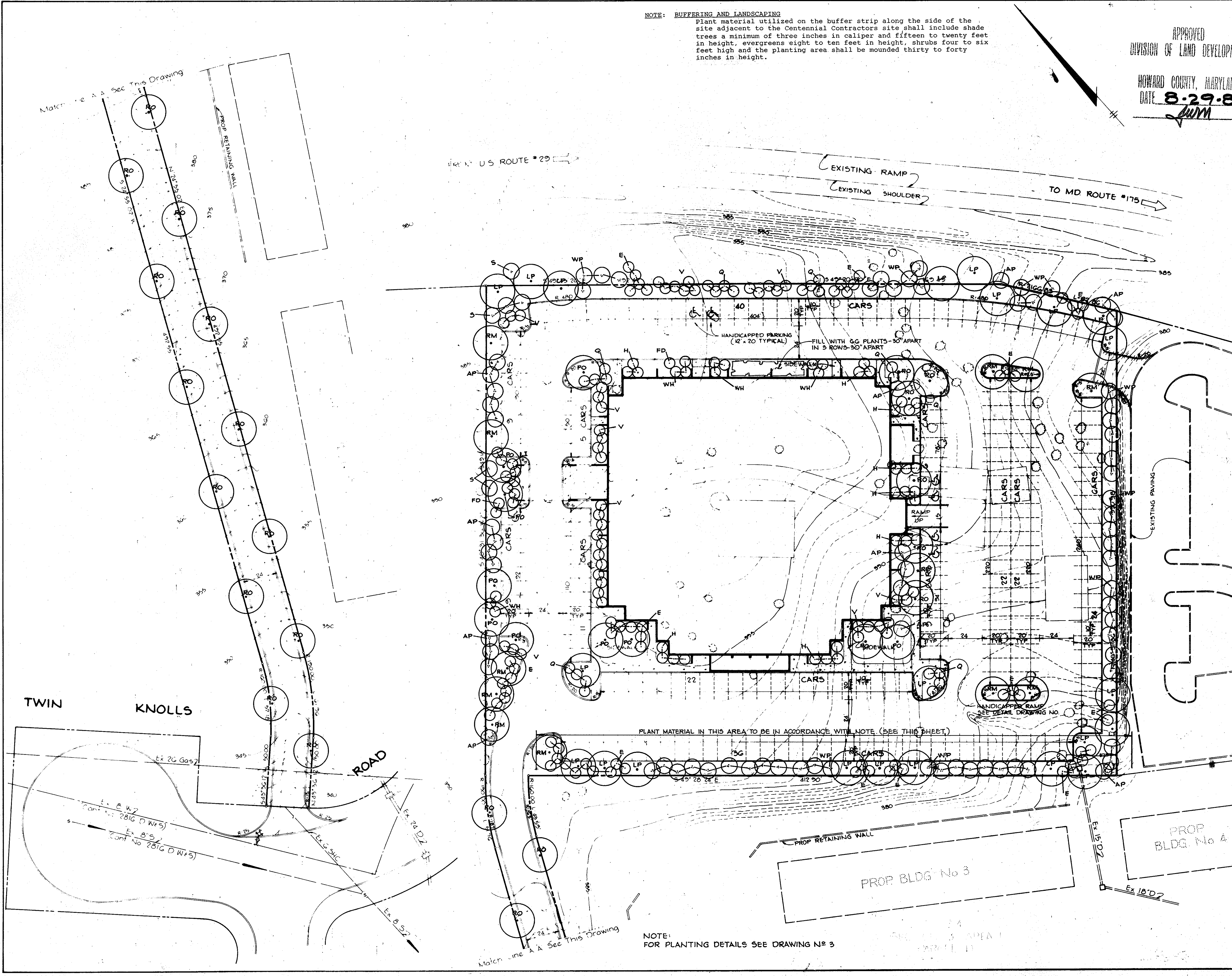
DRAWN BY: R.J.W.

PROJECT NO: 0560

DATE: 5-12-80

SCALE: 1"=30'

DRAWING NO. 7 OF 7



NOTE:
FOR PLANTING DETAILS SEE DRAWING NO 3