

CONSTRUCTION NOTES

GENERAL NOTES

- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF THE IMPROVEMENTS HEREIN SHALL CONFORM TO THE CURRENT HOWARD COUNTY DESIGN MANUAL FOR CONSTRUCTION STANDARDS, SPECIFICATIONS, AND DETAILS AND/OR CURRENT MSHA STANDARDS, AND SPECIFICATIONS.
- SHAK CONSULTANTS, INC. DOES NOT CERTIFY TO THE LOCATION OR EXISTENCE OF ANY UNDERGROUND UTILITIES. THE UNDERGROUND UTILITIES SHOWN ARE FROM AVAILABLE RECORDS. THIS DOES NOT CONSTITUTE A GUARANTEE OF THEIR ACTUAL LOCATIONS OR THAT THEY HAVE ALL BEEN SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIGGING OF TEST HOLES PRIOR TO BEGINNING ANY CONSTRUCTION. TEST HOLES SHALL BE MADE TO VERIFY ALL CROSSING BETWEEN NEW AND EXISTING FACILITIES AND AT CRITICAL GRADE CHANGES. IF CONDITIONS ARE FOUND IN THE FIELD WHICH ARE MATERIALLY DIFFERENT FROM THE PLANS, THE CONTRACTOR SHALL NOTIFY SHAK CONSULTANTS, INC. AND APPROPRIATE REVISIONS WILL BE MADE TO THE PLANS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING THE PUBLIC RIGHT OF WAY. IT IS THE CONTRACTORS' RESPONSIBILITY TO CLEAN STREETS AND TO TAKE WHATEVER MEASURES NECESSARY TO INSURE THAT THE STREETS ARE MAINTAINED IN A CLEAN AND DUST FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM THE WORK IN SUCH A MANNER TO PREVENT THE WASHING OF ANY TOP SOIL OR DEBRIS ONTO ADJACENT PROPERTIES.
- ALL FINISH GRADING AND SODDING SHALL BE DONE TO PRECLUDE THE PONDING OF WATER ON THE SITE, PARTICULARLY ADJACENT TO THE BUILDING OR STORM INLETS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCED OF COMMENCEMENT OF WORK AT 313-3380.

SITE NOTES

- THE PROJECT CONSISTS OF THE DEVELOPMENT OF A PARCEL OF LAND INTO A GASOLINE SERVICE STATION / QUICK SERVICE FOOD STORE.
- LAND SHOWN HEREON IS PRESENTLY IN THE NAME OF RTE. 1 & 32 LIMITED PARTNERSHIP, AS RECORDED IN LIBER 913 AT FOLIO 213, LIBER 1005 AT FOLIO 34 AND LIBER 1005 AT FOLIO 37 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND.
- PROPERTY IS ZONED M-2 AND IS LOCATED ON HOWARD COUNTY TAX MAP 48, PARCEL 82, BLOCK 1.
- SITE ADDRESS: 8755 WASHINGTON BLVD. SAVAGE, MD. 20794
- BOUNDARY TOPOGRAPHIC SURVEY, MERIDAN & VERTICAL DATUM WERE PREPARED BY GREINER, INC. DATED OCTOBER 2, 1989.
- ROADWAY ENTRANCES ARE NOT WITHIN 200 FT. OF ANY RESIDENTIAL STRUCTURES. PUBLIC NOTICE IS NOT REQUIRED.
- SOILS REPORT FOR PAVEMENT DESIGN AND FOUNDATION DESIGN WILL BE PROVIDED PRIOR TO FINAL DESIGN.



CENTRAL PETROLEUM CORPORATION

CROWN STATION
8755 WASHINGTON BOULEVARD
 ELECTION DISTRICT No. 6
HOWARD COUNTY, MARYLAND
 SCI NO. 92M-8551

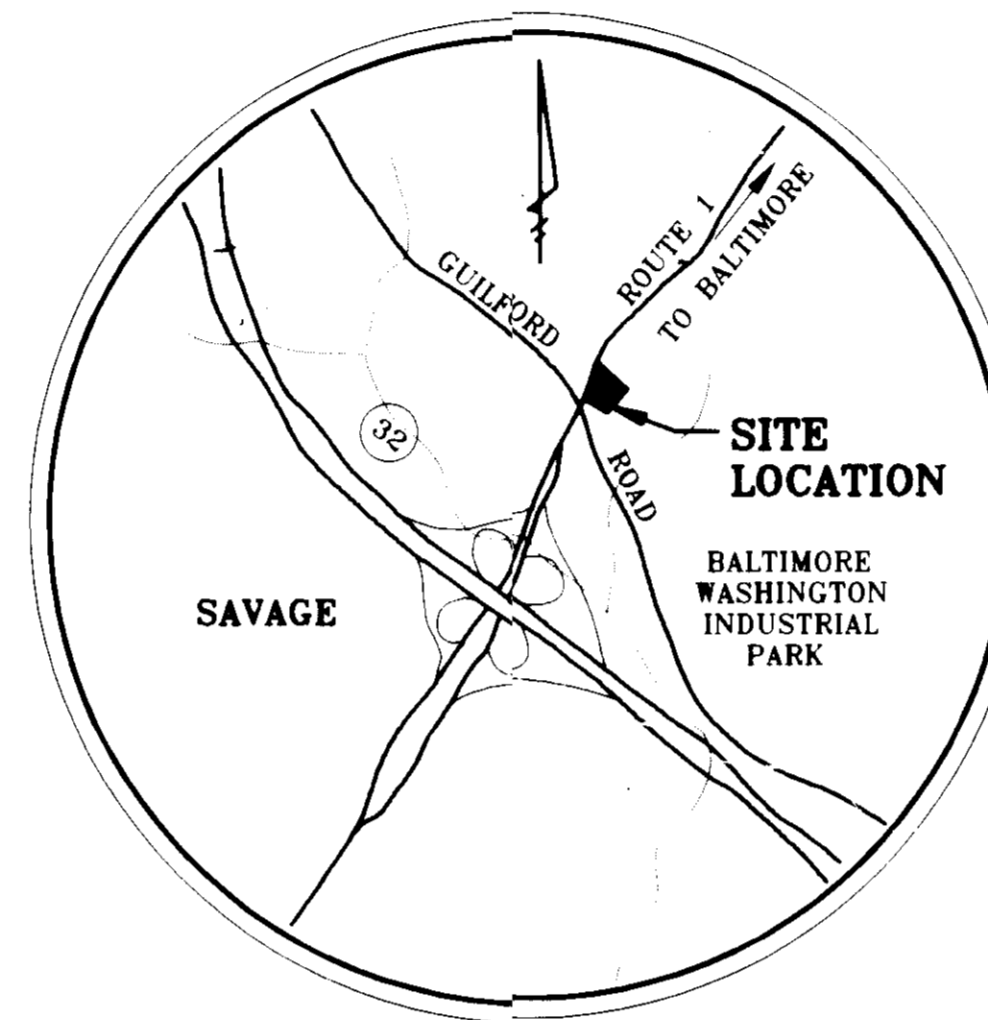
11-24-92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.
 [Signature] 3/12/93
 COUNTY HEALTH OFFICER (DATE)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 [Signature] 3/19/93
 DIRECTOR (DATE)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 [Signature] 3/16/93
 DIRECTOR (DATE)

[Signature] 2-26-93
 CHIEF, BUREAU OF ENGINEERING (DATE)



HOWARD COUNTY VICINITY MAP
 SCALE: 1" = 2000'

SITE PLAN SHEET INDEX

SHEET NO.	SHEET TITLE
1.)	COVER SHEET
2.)	SITE PLAN
3.)	GRADING PLAN
4.)	HORIZONTAL & VERTICAL CONTROL PLAN
5.)	RETAINING WALL DETAILS
6.)	STORM SEWER PROFILES & COMPUTATIONS
7.)	SITE DETAILS
8.)	SILTATION & SEDIMENT CONTROL PLAN AND DRAINAGE DIVIDE
9.)	EROSION & SEDIMENT CONTROL DETAILS
10.)	LANDSCAPE PLAN
11.)	STRUCTURAL ELEVATIONS

SITE ANALYSIS

SITE AREA:	0.643 ACRES OR 28,026 S.F.
ZONE:	M-2
USE:	GAS STATION/CONVENIENCE STORE
FLOOR AREA (NET):	1245 1000 S.F.
UNITS - ALLOWED:	1
- PROVIDED:	1
NUMBER OF EMPLOYEES:	3
PARKING - REQUIRED:	11 # SPACES
- PROVIDED:	11 # SPACES
OPEN SPACE - REQUIRED:	20 %
PROVIDED:	21.7 20 %
BUILDING GROSS FLOOR AREA:	1000 S.F. 1470
TOTAL BUILDING COVERAGE AREA:	1000 % 5.25
CANOPY AREA:	1000 S.F. 5,075
CANOPY COVERAGE:	1000 % 18.1
BUILDING AND CANOPY AREA:	1000 S.F. 6,545
BUILDING AND CANOPY COVERAGE:	1000 % 23.3
TOTAL LANDSCAPE AREA PROVIDED:	1000 S.F. 6103.5 (INCL. 2222 EXIST. TREES)
PERCENTAGE OF LANDSCAPE AREA PROVIDED:	1000 % 21.27 (EXIST. TREES)

NOTES:

WP-91-112, SECTION 16.113(f) APPROVED MAY 16, 1991 FOR NORTHERLY ACCESS POINT TO ARTERIAL HIGHWAY. (F-92-160)

SPECIAL EXCEPTION (BA 90-23E) APPROVED MARCH 26, 1992 FOR CONSTRUCTION AND OPERATION GASOLINE SERVICE STATION AND CONVENIENCE STORE. A PETITION TO EXTEND BY (6) MONTHS, THE (3) YEAR LIMITATION FOR SUBSTANTIAL CONSTRUCTION UNDER PARKING TABULATION SEC 131.1.3 OF THE ZONING REQUIREMENTS WAS APPROVED BY THE BOARD OF APPEALS, HOWARD COUNTY ON OCTOBER 20, 1994; TO AREA OF LANDSCAPE ISLANDS PROVIDED 12-569 S.F. (12-569 S.F.) SEPT 26 1995 WITHIN THE PARKING LOT= 363.8 S.F. 5% (181.9 S.F.) MINIMUM AREA REQUIRED= 363.8 S.F. (1276)

PARKING REQUIRED

1 SPACE PER EMPLOYEE
 1 SPACE PER EVERY 200 S.F. OF FLOOR SPACE
 PARKING PROVIDED

MAXIMUM NUMBER OF EMPLOYEES = 3
 3 EMPLOYEE SPACES
 3 # CUSTOMER SPACES / 1345
 (FLOOR AREA = 1345 S.F. / 200 x 1 = 7 SPACES REQ.)
 11 # TOTAL PARKING SPACES PROVIDED INCLUDING A HANDICAP SPACE.

ABBREVIATIONS	LEGEND
AC = ACRE	PROPERTY OR R/W LINES
BC = BOTTOM OF CURB	CENTER LINE
BM = BENCH MARK	EXISTING CONTOURS
BOW = BOTTOM OF WALL	PROPOSED CONTOURS
BRL = BUILDING RESTRICTION LINE	EXISTING SPOT ELEVATION
BS = BUILDING SUPPLIER	NEW SPOT ELEVATION
C = CABLE	EXISTING FENCE LINE
CG = CURB & GUTTER	EXISTING CURB OR CURB & GUTTER
CIP = CAST IRON PIPE	PROPOSED CURB FACE & GUTTER
CL = CENTER LINE	PROPOSED HEADER CURB FACE
CMP = CORRUGATED METAL PIPE	TRENCH DRAIN
CO = CLEAN OUT	EXISTING WATER (TYP. ALL UTILS.)
DIP = DUCTILE IRON PIPE	PROPOSED WATER (TYP. ALL UTILS.)
E = ELECTRIC	FIRE HYDRANT
EP = EDGE OF PAVEMENT	EXISTING SANITARY SEWER
ES = END SECTION	PROPOSED SANITARY SEWER
ETR = EXISTING TO REMAIN	EXISTING STORM SEWER
FC = FACE OF CURB	PROPOSED STORM SEWER
FH = FIRE HYDRANT	UTILITY POLE
FL = FLOW LINE	YARD LIGHT
G = GAS	EXISTING BUILDING
GC = GENERAL CONTRACTOR	PROPOSED BUILDING
HC = HANDICAPPED	PROPOSED CANOPY
HP = HIGH POINT	PROPOSED CONCRETE PAVEMENT
INV = INVERT	PROPOSED TREE
LP = LOW POINT	EXISTING EDGE OF WOODS
MEG = MEET EXISTING GRADE	EXISTING TO REMAIN
MH = MANHOLE	MEET EXISTING GRADE
O/H = OVERHEAD	
PL = PROPERTY LINE	
PROP = PROPOSED	
PVC = POLYVINYL CHLORIDE	
PVMT = PAVEMENT	
RCF = REINFORCED CONCRETE PIPE	
REC = REPLACE EXISTING CURB	
R/W = RIGHT-OF-WAY	
SAN = SANITARY SEWER	
ST = STORM SEWER	
S/W = SIDEWALK	
T = TELEPHONE	
TC = TOP OF CURB	
TOW = TOP OF WALL	
U/S = UNDERGROUND	
UP = UTILITY POLE	
W = WATER	
WM = WATER METER	
WV = WATER VALVE	

PREPARED BY

SHAK CONSULTANTS INC.

10849 ROCKVILLE, MARYLAND 20856

(301)-294-6390

OCTOBER 6, 1992

HOWARD COUNTY SDP-93-11

SUBDIVISION NAME		SECT/AREA	PARCEL #		
WECHSLER PROPERTY		N/A	A		
PLAT #	BLOCK #	ZONE	TAX/ZONE MAP	ELEC DIST	CENSUS TRACT
10403	1	M-2	48	6th	6069.01
WATER CODE		SEWER CODE			
B02		4250000			

ADDRESS CHART	
PARCEL NUMBER	STREET ADDRESS
A	8755 BALTIMORE WASHINGTON BLVD. (U.S. RTE. 1)

11-24-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 3/12/93
 COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Joseph R. Ketter 3/12/93
 DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Emma Holmuth 3/19/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

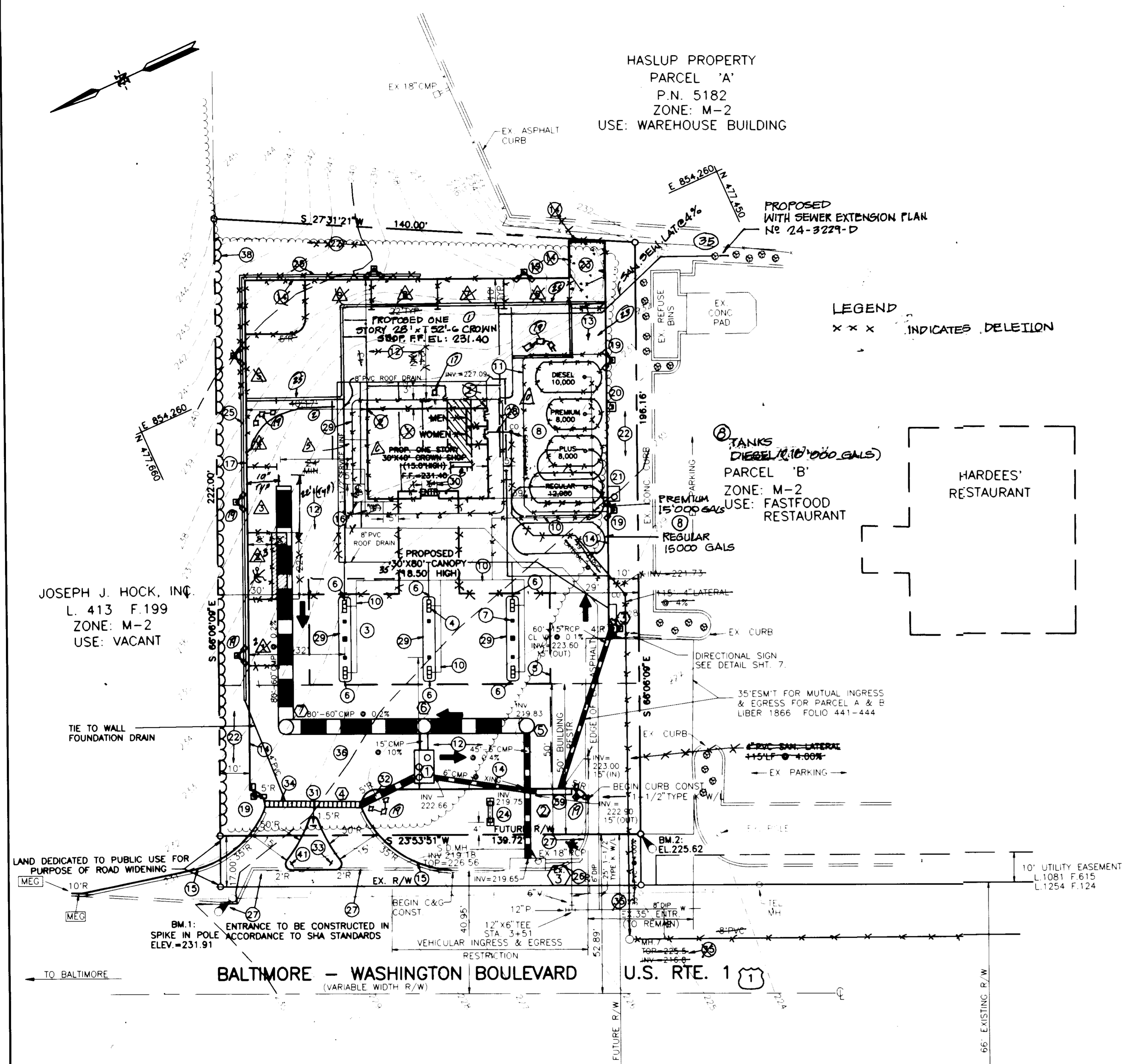
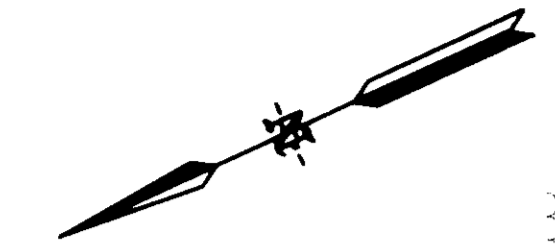
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Dennis M. Slavin 3/10/93
 DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. Ryan 2-26-93
 CHIEF BUREAU OF ENGINEERING DATE

HASLUP PROPERTY
 PARCEL 'A'
 P.N. 5182
 ZONE: M-2
 USE: WAREHOUSE BUILDING

PROPOSED WITH SEWER EXTENSION PLAN
 No. 24-3229-D

LEGEND
 x x x INDICATES DELETION



JOSEPH J. HOCK, INC.
 L. 413 F.199
 ZONE: M-2
 USE: VACANT

HARDEES RESTAURANT

TANKS
 DIESEL 10,000 GALS
 PARCEL 'B'
 ZONE: M-2
 USE: FASTFOOD RESTAURANT
 PREMIUM 15,000 GALS
 REGULAR 15,000 GALS

NOTES:

- SEE SHEET 3 FOR PROPOSED SITE GRADING.
- SEE SHEET 4 FOR HORIZONTAL & VERTICAL CONTROL
- SEE SHEET 10 FOR PROPOSED LANDSCAPING
- ALL UTILITY CONNECTIONS ARE TO BE MADE BY GENERAL CONTRACTOR, AS PER LOCAL CODE.
- AT ENTRANCES, TRANSITION FROM MSHA CURB TO HOWARD COUNTY CURB AFTER TRENCH DRAIN.
- INDICATES DRAINAGE STRUCTURE. SEE SHEET 6 FOR DETAILS, SPECIFICATIONS AND PROFILES
- INDICATES CROSS HATCH STRIPING FOR HANDICAPPED PARKING.
- WATER AND SEWER WILL BE EXTENDED TO SITE BY WATER AND SEWER EXTENSION CONTRACT No. 24-3229-D.
- AREA OF ROAD DEDICATION = 2,375.24 SF. OR 0.055 AC.
- HANDICAPPED WILL USE MAIN ENTRANCE IN THE FRONT OF BUILDING.
- RESTROOM DETAILS WILL BE PROVIDED AT THE TIME OF APPLICATION FOR A BUILDING PERMIT.

GENERAL NOTES

ITEM NUMBER	DESCRIPTION
1	BUILDING TYPE 28'x51'-06"
2	BUILDING TYPE 28'x51'-06" CROWN SHOP
3	BUILDING TYPE 28'x51'-06" CROWN SHOP
4	DISPENSING EQUIPMENT (6) MPD
5	CROWN LOGO IN MODULAR FASCIA
6	BUMPER BAR SEE DETAIL SHEET 7
7	CANOPY DOWNSPOUT DRAINS AT CANOPY COLUMNS
8	FIBERGLASS TANKS FOR MOTOR FUEL, INSTALL PER MFR AND CROWN
9	(12 K) REGULAR
10	(8 K) PLUS
11	(8 K) PREMIUM
12	(10 K) DIESEL
13	VAPOR RECOVERY SYSTEM
14	CONCRETE SLAB REINFORCED (SEE DETAIL SHEET 7)
15	ASPHALT PAVING SEE DETAIL SHEET 7
16	CONCRETE 4"X6"-6" WWF
17	HOWARD CO. R. 3.03
18	7" CURB WITH 18" GUTTER-HOWARD CO. STD # R-3.01
19	HANDICAPPED RAMP & RAILING SEE DETAIL SHEET 7
20	INSTALL (1) HANDICAPPED PARKING ONLY SIGN (SEE DETAIL SHEET 7)
21	DRIVE APPROACH AND CURBING OUTSIDE PROPERTY LINE MSHA TYPE 2A
22	NEW YARD LIGHTS (TYPICAL OF 10) (SEE DETAIL SHEET 7)
23	INSTALL NEW AIR METER ON 3'X3' CONC. PAD SEE DETAIL SHEET 7
24	INSTALL NEW VACUUM ON 4'X5' CONC. PAD
25	LANDSCAPING SEE SHEET 10
26	TRASH ENCLOSURE MAXIMUM HEIGHT 6 FEET (SEE DETAIL SHEET 7)
27	CROWN LD. SIGN HEIGHT = 15', WIDTH = 7'-11"
28	RETAINING WALL MAX HEIGHT=5' (SEE DETAIL SHEET 5)
29	EXISTING CURB & GUTTER
30	EXISTING CURB & GUTTER TO BE REMOVED
31	SAN SEWER SERVICE & BLDG. CONNECTION, TIE INTO PROPOSED SAN SEWER LINE
32	8" CURB SEE DETAIL SHEET 7
33	BLDG. ELECTRICAL & TELEPHONE SERVICE ROUTE UNDERGROUND PER CROWN'S FIELD ENGINEER & PER LOCAL CODE
34	KEEP RIGHT SIGN
35	DO NOT ENTER SIGN (SPEC OR DETAIL REQ'D)
36	NO LEFT TURN SIGN (SPEC OR DETAIL REQ'D)
37	TRENCH DRAIN (SEE DETAIL SHEET 6)
38	PROPOSED WITH WATER AND SEWER EXTENSION PLAN
39	INFILTRATION TRENCH SEE DETAIL SHEET 6
40	1"CONT. S/W BETWEEN CURB & RET. WALL
41	PROPOSED TREE LINE FOR CLEARING & GRUBBING
42	OIL/GRIT SEPARATOR, SEE SHEET 6
43	COG INLET, SEE SHEET 6
44	DO NOT ENTER SIGN

CROWN CENTRAL PETROLEUM CORPORATION
 PRODUCERS • REFINERS • MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS
 GENERAL OFFICES • ONE NORTH CHARLES • P.O. BOX 1168 • BALTIMORE, MARYLAND 21203

PROJECT NO.: 92M-8551
 COUNTY NO.: SDP 93-11
 CLNT. NO.:
 AutoCAD FILE NAME: 8551SITE.DWG

SITE PLAN
 GAS STATION PROJECT
 8755 WASHINGTON BOULEVARD
 SUBD: WECHSLER PROPERTY ELECTION DISTRICT No. 6
 TAX MAP #48 PARCEL A RECORD PLAT# F-92-150
 WATER CODE B02 SEWER CODE 4250000
 HOWARD COUNTY, MARYLAND

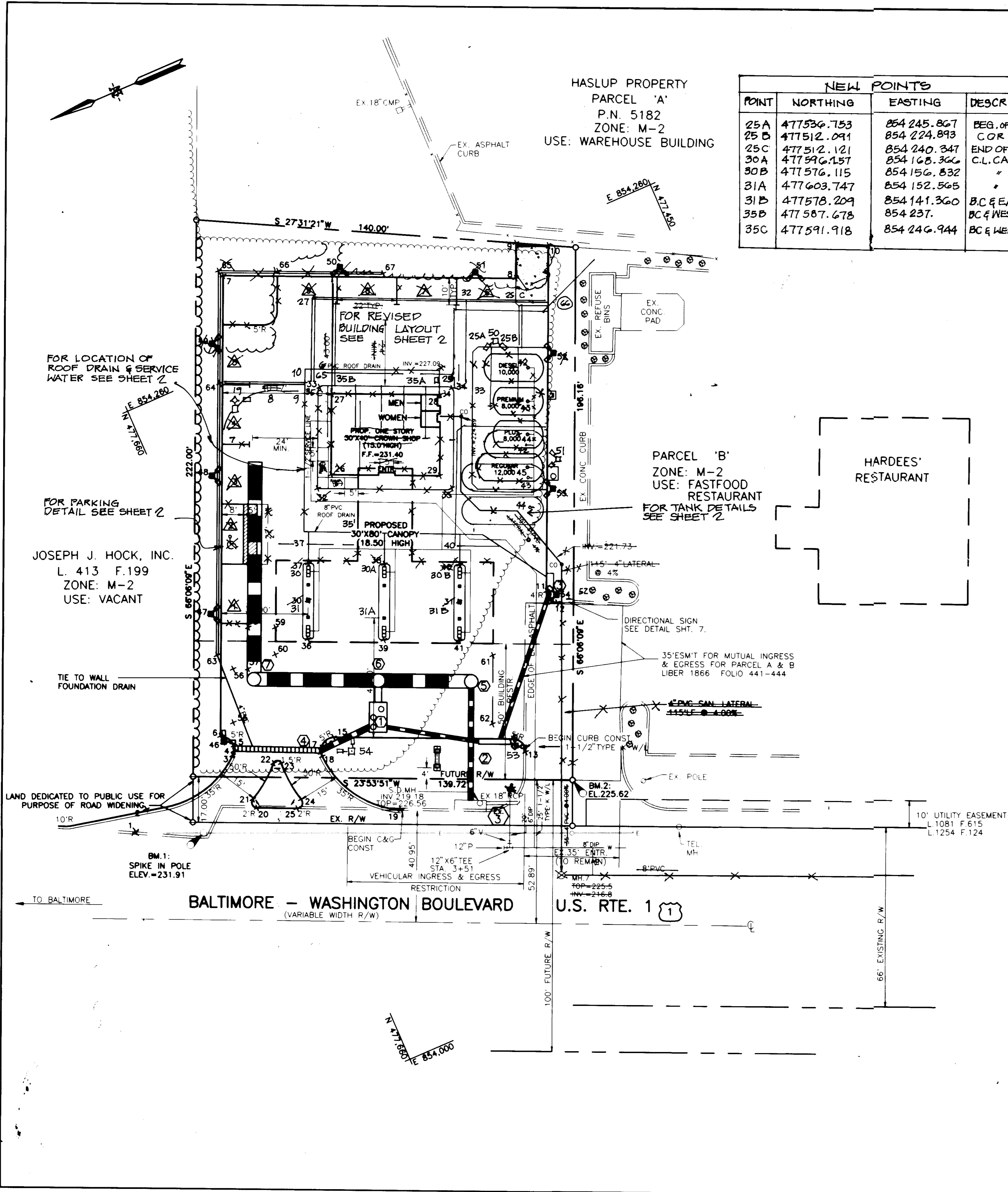
DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

engineers project management planners

SCI
 30 west gude suite 120 rockville maryland 20850
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

SHAK CONSULTANTS, INC.

Designed	Checked
H.A.C.	D.A.K.
Date	Scale
10-06-92	1" = 20'
Project No.	Sheet No.
92M-8551	2 OF 11



NEW POINTS

POINT	NORTHING	EASTING	DESCRIPTION
25A	477536.753	854 245.867	BEG. OF C&G COR
25B	477512.091	854 224.893	COR
25C	477512.121	854 240.347	END OF C&G
30A	477596.157	854 168.366	C.L. CANOPY
30B	477576.115	854 156.832	"
31A	477603.747	854 152.565	"
31B	477578.209	854 141.360	B.C. & EAST COR
35B	477587.678	854 237.	B.C. & WEST COR
35C	477591.918	854 246.944	B.C. & WEST COR

SITE PLAN COORDINATE LIST
(ALL ELEVATIONS ARE TOP OF CURB UNLESS OTHERWISE NOTED)

POINT	NORTHING	EASTING	DESCRIPTION
1	477719.2968	854116.6852	BEGIN C&G
2	477712.3210	854122.7811	PC
3	477675.1694	854128.3964	PCC
4	477674.1337	854129.6490	PT, END C&G
5	477673.3003	854131.4670	PC, BEGIN C&G
6	477676.4280	854136.7380	PT
7	477607.7634	632.84 854201.7018	235.076 COR PC
8	477583.2294	608.29 854228.0672	245.583 COR PT
9	477583.2294	571.35 854255.9990	241.259 COR
10	477583.2294	571.93 854255.9990	243.593 COR
11	477544.8948	854137.9845	PC
12	477543.0456	854132.5995	PT, TIE INTO EX. C&G
13	477575.6386	854086.7855	PT, TIE INTO EX. C&G
14	477578.0949	854093.1646	PT
15	477638.3961	854119.8858	PC
16	477644.0380	854118.0529	PT, END C&G
17	477644.8715	854116.2348	PC, BEGIN C&G
18	477645.0054	854114.9778	PCC
19	477626.2789	854085.2057	PT, TIE INTO EX. C&G
20	477674.6641	854106.9918	PC
21	477674.7856	854110.5870	PRC
22	477662.4556	854119.7835	PRC
23	477659.8875	854118.6380	PRC
24	477658.4809	854103.4589	PRC
25	477661.2490	854101.0201	PT

BUILDING & CANOPY

POINT	NORTHING	EASTING	DESCRIPTION
26	477600.6106	593.04 854200.6006	245.867 NORTH COR
27	477588.3595	581.70 854236.0455	271.405 EAST COR
28	477588.3595	581.70 854236.0455	271.405 EAST COR
29	477564.8307	545.07 854182.8307	250.144 SOUTH COR
30	477625.8195	622.49 854109.6906	224.564 WEST COR
31	477575.9504	629.25 854147.1843	164.213 CL CANOPY COLUMN

SIDEWALK

POINT	NORTHING	EASTING	DESCRIPTION	SOUTH
32	477607.2070	530.36 854206.1421	248.37 BC @ NORTH COR	
33	477591.5444	542.44 854240.1114	218.915 BC @ EAST COR	WEST
34	477546.8246	836 854220.3349	220.207 BC @ SOUTH COR	NORTH
35 A	477561.2942	563.00 854186.6609	228.049 BC @ EST COR	WEST

PUMP ISLANDS

POINT	NORTHING	EASTING	DESCRIPTION
36	477632.5990	633.07 854156.6044	155.74 BC @ MID PT
37	477624.2488	648.83 854102.2039	187.87 BC @ MID PT
38	477585.0984	593.21 854145.3421	176.52 BC @ MID PT
39	477585.0984	607.34 854170.8466	144.28 BC @ MID PT
40	477570.3007	587.16 854159.7124	165.10 BC @ MID PT
41	477581.6430	672.64 854134.1123	133.15 BC @ MID PT

UNDERGROUND STORAGE TANKS

POINT	NORTHING	EASTING	DESCRIPTION
42	477523.3673	530.61 854210.3091	189.09 TANK CENTER
43	477526.7057	535.53 854205.0371	177.91 TANK CENTER
44	477531.2229	540.64 854194.9493	166.45 TANK CENTER
45	477538.9816	551.68 854180.7777	TANK CENTER

YARD LIGHTS

POINT	NORTHING	EASTING	DESCRIPTION
46	477676.3774	854134.2384	CTR BASE 16' POLE
47	477661.9561	667.25 854179.4225	164.92 CTR BASE 16' POLE
48	477641.2754	646.24 854225.8645	223.91 CTR BASE 16' POLE
49	477621.7057	622.81 854270.4546	218.11 CTR BASE 16' POLE
50	477566.9537	526.94 854277.7697	230.46 CTR BASE 16' POLE
51	477521.9832	523.20 854256.8800	180.83 CTR BASE 16' POLE
52	477507.3216	541.88 854242.3147	135.24 CTR BASE 16' POLE
53	477527.4460	528.41 854171.6036	190.28 CTR BASE 16' POLE
54	477541.0822	635.64 854135.2425	113.48 CTR BASE 16' POLE

STRUCTURES

POINT	NORTHING	EASTING	DESCRIPTION
55	477670.1182	854139.4274	COR OF TRENCH
56	477662.2993	854157.5245	COR OF TRENCH
57	477657.2147	854155.4086	COR OF TRENCH
58	477651.0634	854169.3158	COR OF TRENCH
59	477641.9459	854165.2830	COR OF TRENCH
60	477645.9013	854156.2158	COR OF TRENCH
61	477572.5242	854124.2164	COR OF TRENCH
62	477582.7174	854101.1442	COR OF TRENCH
63	477665.7512	854164.4290	TOP OF WALL
64	477624.7735	854255.9295	TOP OF WALL
65	477600.6730	594.24 854293.9625	242.45 TOP OF WALL
66	477580.5275	506.58 854285.1640	235.55 TOP OF WALL
67	477583.4024	854269.0544	TOP OF WALL

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM - HOWARD COUNTY HEALTH DEPARTMENT

James M. B... 3/12/93
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James M. B... 3/19/93
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. B... 3/19/93
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. B... 3/19/93
DATE

11-24-92

ABBREVIATIONS:

PC - POINT OF CURVE
PT - POINT OF TANGENT
PRC - POINT OF REVERSE CURVE
COR - CORNER
FC - FACE OF CURB
EP - EDGE OF PAVEMENT
BE - BACK EDGE
NW COR - NORTHWEST CORNER
NE COR - NORTHEAST CORNER
SE COR - SOUTHEAST CORNER
SW COR - SOUTHWEST CORNER
CURVE MID. PT. - CURVE MID POINT
CTR. - CENTER

NOTES:

- BUILDING, CANOPY, PUMP ISLAND AND TRASH ENCLOSURE COORDINATES ARE PROVIDED FOR LOCATING STRUCTURES ON THE SITE. CONTRACTOR SHALL LAYOUT ALL FOUNDATIONS ACCORDING TO ARCHITECTURAL PLANS.
- UNDERGROUND TANK COORDINATES ARE PROVIDED FOR LOCATING STRUCTURES ON THE SITE. CONTRACTOR SHALL PROVIDE TANK SEPARATION ACCORDING TO MANUFACTURER'S INSTALLATION INSTALLATIONS.

CROWN CENTRAL PETROLEUM CORPORATION
PRODUCERS • REFINERS • MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS
GENERAL OFFICES • ONE NORTH CHARLES • P.O. BOX 1188 • BALTIMORE, MARYLAND 21203

HORIZONTAL & VERTICAL CONTROL PLAN
DATE: _____
DRAWN BY: CoV.
CHK. BY: _____
SCALE: 1"=20'

8755 WASHINGTON BOULEVARD
SUBD. WECHLER PROPERTY ELECTION DISTRICT NO. 5
TAX MAP #48 PARCEL A RECORD PLAT F-92-160
WATER CODE B02 SEWER CODE 4250000
HOWARD COUNTY, MARYLAND

PROJECT NO.: 92M-8551
COUNTY NO.: SDP 93-11
CLNT. NO.: _____
AutoCAD FILE NAME: 8551HCP.DWG

engineers project management planners
30 west gude suite 120 rockville maryland 20850
p.o. box 10313 rockville 20849-0313 phone 301 294 6390

Designed: _____
Checked: _____
Date: 10-6-92
Scale: 1"=20'
Project No: 92M-8551
Sheet No: 4 OF 11

REVISIONS

DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

TR 55 GRAPHICAL PEAK DISCHARGE METHOD
CROWN GAS STATION WASHINGTON BLVD./RT32
FOR PREDEVELOPMENT CONDITIONS ONSITE ONLY.

CALCULATED DISK FILE: C:\PONDPAK\CW-PRE		GPD	
DRAINAGE AREA (ACRES)	1.39		0.0022 SQ.MI.
RUNOFF CURVE NUMBER (CN)	58		
TIME OF CONCENTRATION, TC (HRS)	11		
RAINFALL DISTRIBUTION (TYPE)	II		
POND AND SWAMP AREAS (%)	0		0.0 ACRES
	STORM #1	STORM #1	STORM #1
FREQUENCY (YEARS)	2	10	100
RAINFALL, P, 24-HR (IN)	3.2	5.1	7.2
INITIAL ABSTRACTION, IA (IN)	1.448	1.448	1.448
IA/P RATIO	0.453	0.284	0.201
UNIT DISCHARGE, QU (CSM/IN)	682	942	973
RUNOFF, Q (IN)	0.34	1.22	2.55
POND & SWAMP ADJUSTMENT FACTOR	1.00	1.00	1.00
PEAK DISCHARGE, QP (CFS)	1	3	5

SUMMARY OF COMPUTATIONS FOR QU			
IA/P #1	0.450	0.300	0.100
CO #1	2.292	2.553	2.553
C1 #1	-0.570	-0.615	-0.615
C2 #1	-0.023	-0.164	-0.164
QU (CSM) #1	691.226	1009.997	1009.997
IA/P #2	0.500	0.300	0.300
CO #2	2.203	2.465	2.465
C1 #2	-0.516	-0.623	-0.623
C2 #2	-0.013	-0.117	-0.117
QU (CSM) #2	508.417	936.095	936.095
QU (CSM)	682	942	973

• INTERPOLATED FOR COMPUTED IA/P RATIO (BETWEEN IA/P #1 & IA/P #2)
IF COMPUTED IA/P EXCEEDS IA/P LIMITS, BOUNDING LIMIT FOR IA/P IS USED.
 $LOG(QU) = CO + (C1 \cdot LOG(TC)) + (C2 \cdot (LOG(TC))^2)$
 $QP (CFS) = QU(CSM) \cdot AREA(SQ.MI.) \cdot Q(IN) \cdot (POND \& SWAMP ADJ.)$

CANTILEVER RETAINING WALL NOTES & SPECIFICATIONS

- A. MATERIAL
- 1.0 STEEL
- 1.01 CONCRETE REINFORCING
- 1.02 ALL REINFORCED STEEL SHALL BE DETAILED AND INSTALLED PER MOST RECENT AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATIONS (ACI 315). MINIMUM REINFORCING STEEL COVERAGE SHALL BE:
- FOOTINGS -3" FROM EARTH
WALLS -2"
- 2.0 CONCRETE
- 2.01 PORTLAND CEMENT
- 2.02 AGGREGATE
- 2.03 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4,000 PSI. USE OF CALCIUM CHLORIDE OR FLY ASH IS PROHIBITED. CONCRETE SHALL BE PLACED AND CURED PER LATEST ACI SPECIFICATIONS. CONCRETE SHALL NOT BE PLACED IN FREEZING WEATHER.
- B. GENERAL
- 1.0 SOIL BEARING SPECIFICATIONS: 3,000 PSF MINIMUM
- 2.0 DESIGNS ARE NOT INTENDED TO BE USED WHERE ICE COULD FORM UNDER FOUNDATIONS OR ADJACENT TO WALL.
- 3.0 NO WATER LINES SHALL BE PERMITTED BEHIND RETAINING WALL. STANDING WATER BEHIND WALL IS PROHIBITED. POSITIVE DRAINAGE OF ALL SURFACE WATER BEHIND RETAINING WALL IS REQUIRED.
- 4.0 BUILDING SHALL NOT BE LOCATED ADJACENT TO WALL WITHIN A DISTANCE LESS THAN 3 TIMES THE HEIGHT OF THE WALL OR 15' WHICH EVER IS GREATER.
- C. DESIGN CRITERIA
- 1.0 SOIL PARAMETERS
- DENSITY 130 PCF
ANGLE OF INTERNAL FRICTION 36-38 DEGREES
COEFFICIENT OF FRICTION OF BASE MATERIAL 0.35
ACTIVE EARTH PRESSURE P_0 30.0
- 2.0 CONCRETE DENSITY 150 PCF

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

W. H. ... 3/17/93
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

... Kelle 3/19/93
DIRECTOR DATE

... H. ... 3/19/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

... M. ... 3.10.93
DIRECTOR DATE

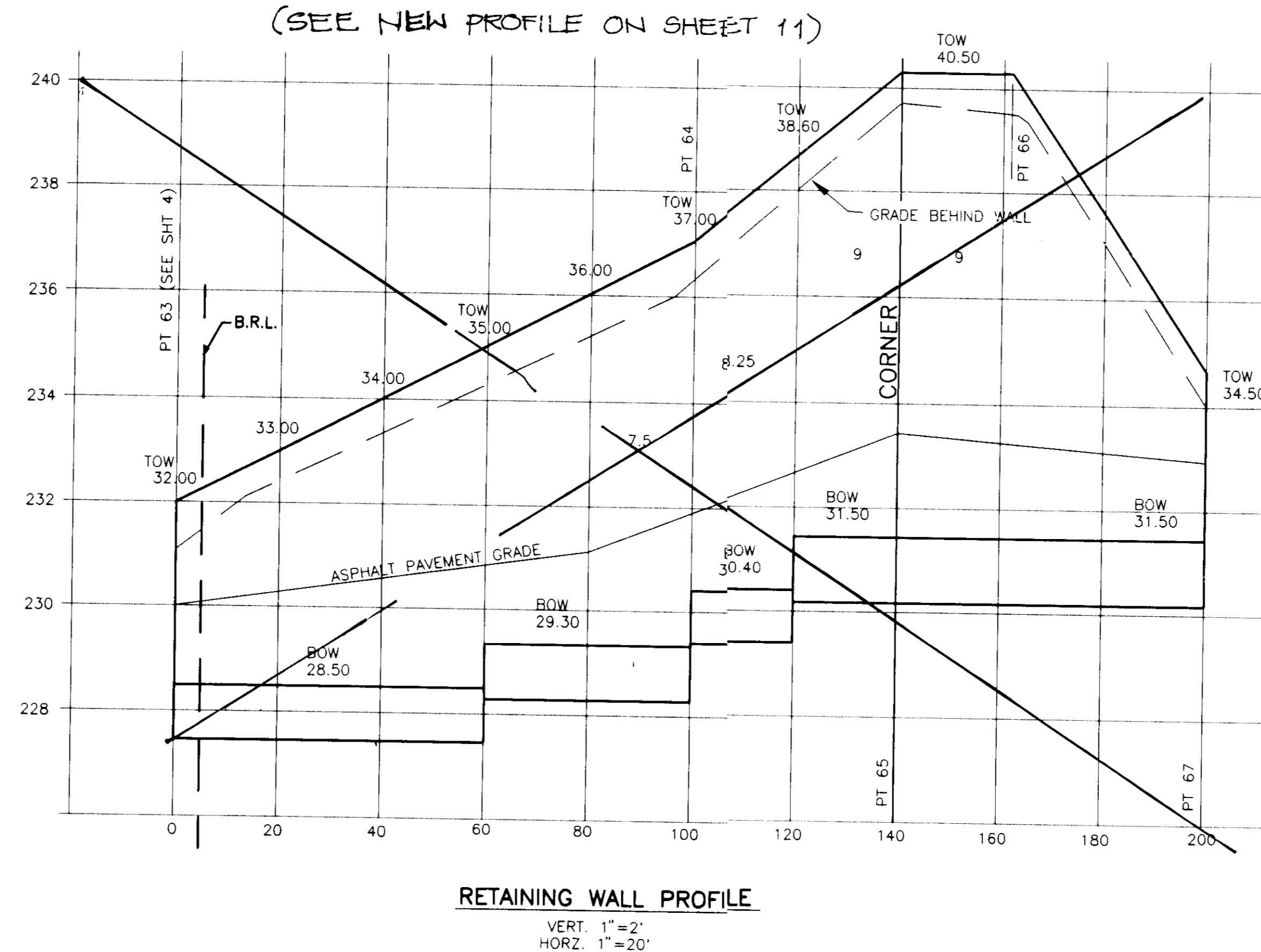
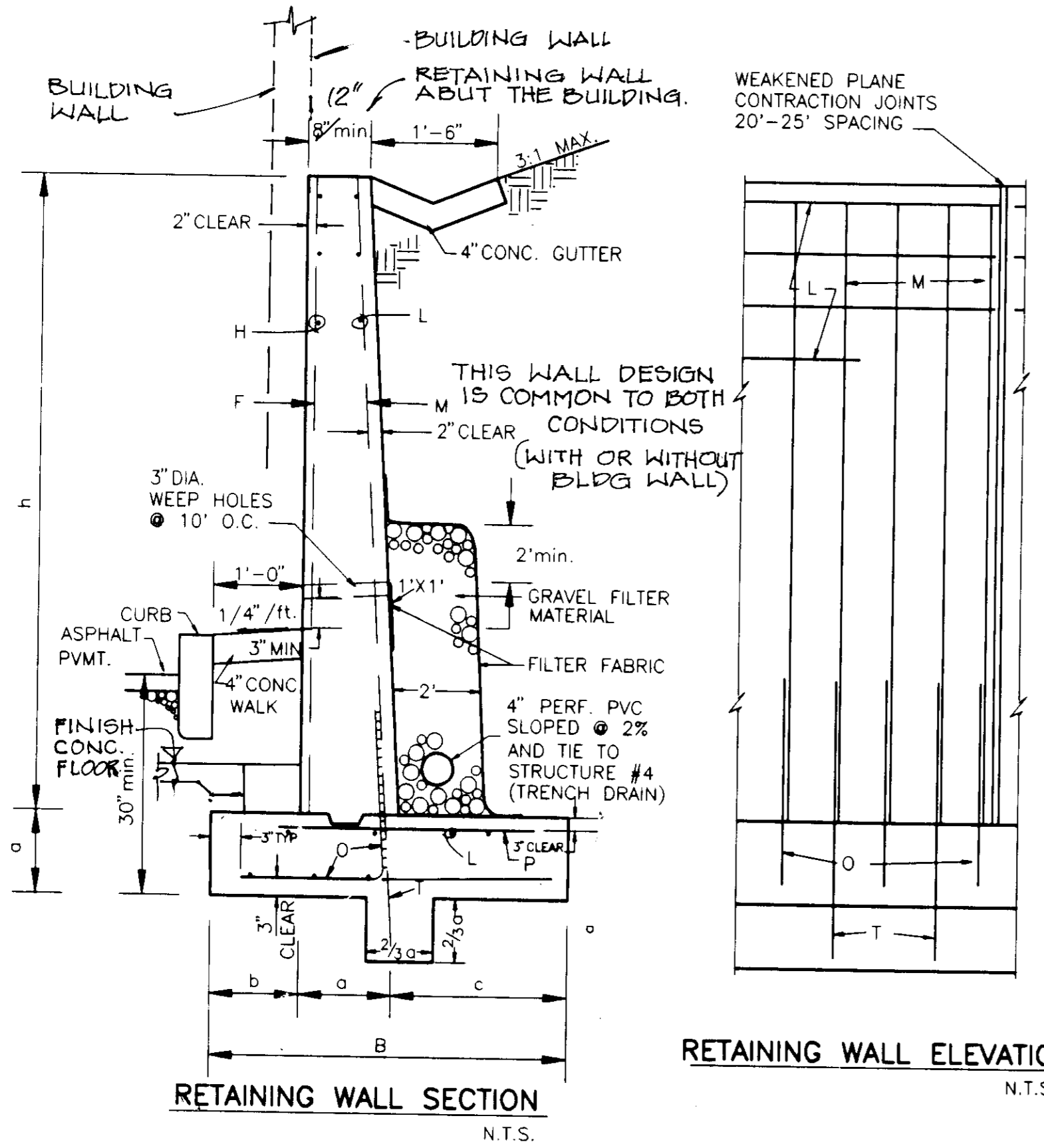
... S. ... 2.26.93
CHIEF, BUREAU OF ENGINEERING DATE

TR 55 GRAPHICAL PEAK DISCHARGE METHOD
CROWN GAS STATION WASHINGTON BLVD./RT32
FOR POSTDEVELOPMENT CONDITIONS TAKING INTO ACCOUNT ONLY ONSITE AREAS.

CALCULATED DISK FILE: C:\PONDPAK\CW-POST		GPD	
DRAINAGE AREA (ACRES)	1.39		0.0022
RUNOFF CURVE NUMBER (CN)	70		
TIME OF CONCENTRATION, TC (HRS)	11		
RAINFALL DISTRIBUTION (TYPE)	II		
POND AND SWAMP AREAS (%)	0		0.0 ACRES
	STORM #1	STORM #1	STORM #1
FREQUENCY (YEARS)	2	10	100
RAINFALL, P, 24-HR (IN)	3.2	5.1	7.2
INITIAL ABSTRACTION, IA (IN)	0.857	0.857	0.857
IA/P RATIO	0.268	0.168	0.119
UNIT DISCHARGE, QU (CSM/IN)	948	985	1003
RUNOFF, Q (IN)	0.83	2.11	3.79
POND & SWAMP ADJUSTMENT FACTOR	1.00	1.00	1.00
PEAK DISCHARGE, QP (CFS)	2	5	8

SUMMARY OF COMPUTATIONS FOR QU			
IA/P #1	0.100	0.100	0.100
CO #1	2.553	2.553	2.553
C1 #1	-0.615	-0.615	-0.615
C2 #1	-0.164	-0.164	-0.164
QU (CSM) #1	1009.997	1009.997	1009.997
IA/P #2	0.300	0.300	0.300
CO #2	2.465	2.465	2.465
C1 #2	-0.623	-0.623	-0.623
C2 #2	-0.117	-0.117	-0.117
QU (CSM) #2	936.095	936.095	936.095
QU (CSM)	948	985	1003

• INTERPOLATED FOR COMPUTED IA/P RATIO (BETWEEN IA/P #1 & IA/P #2)
IF COMPUTED IA/P EXCEEDS IA/P LIMITS, BOUNDING LIMIT FOR IA/P IS USED.
 $LOG(QU) = CO + (C1 \cdot LOG(TC)) + (C2 \cdot (LOG(TC))^2)$
 $QP (CFS) = QU(CSM) \cdot AREA(SQ.MI.) \cdot Q(IN) \cdot (POND \& SWAMP ADJ.)$



CONCRETE OUTLINES				
Height of Wall = h (ft.)	B (ft.)	a (ft.)	b (ft.)	c (ft.)
3	2'-6"	0'-11"	0'-7"	1'-0"
4	3'-7"	1'-0"	0'-9"	1'-10"
5	4'-8"	1'-1"	1'-0"	2'-7"
6	5'-4"	1'-2"	1'-3"	2'-11"
7	6'-1"	1'-3"	1'-6"	3'-4"
8	6'-9"	1'-4"	1'-9"	3'-8"
9	7'-6"	1'-5"	2'-0"	4'-2"

REINFORCEMENT																								
Height of Wall = h (ft.)	M			P			O			O a b			T			F			L			H		
	Bar Size	Length (ft.)	Spccg (in)	Bar Size	Length (ft.)	Spccg (in)	Bar Size	Length (ft.)	Spccg (in)	a (ft.)	b (ft.)	Bar Size	Length (ft.)	Spccg (in)	Bar Size	Length (ft.)	Spccg (in)	Qty of Bars	Bar Size	Spccg (in)	Qty of Bars	Bar Size	Spccg (in)	
3	#3	1'-10"	18	#3	4'-10"	18	#3	1'-4"	3'-6"			#3	2'-10"	18	8	#3	10	3	#3	12				
4	#3	2'-8"	18	#3	6'-2"	18	#3	1'-7"	4'-7"			#3	3'-10"	18	10	#3	10	4	#3	12				
5	#3	3'-9"	16	#3	7'-7"	16	#3	1'-11"	5'-8"			#3	4'-10"	18	8	#4	15	2	#4	15				
6	#4	4'-2"	14	#3	8'-10"	18	#3	2'-1"	6'-9"	#3	3'-10"	18	#3	5'-10"	16	9	#4	14	5	#4	14			
7	#4	4'-8"	14	#4	6'-5"	18	#4	2'-5"	4'-0"	#3	7'-11"	18	#3	6'-10"	14	11	#4	14	8	#4	14			
8	#4	5'-10"	12	#4	8'-6"	16	#4	3'-1"	3'-0"	#4	8'-0"	18	#3	7'-10"	14	13	#4	14	7	#4	14			
9	#4	6'-10"	12	#4	5'-1"	24	#4	3'-1"	3'-0"	#4	9'-0"	18	#3	8'-10"	12	16	#4	14	9	#4	14			

I			Q			HEIGHT OF WALL L (FT.)
QTY OF BARS	BAR SIZE	SPCCG	QTY OF BARS	BAR SIZE	SPCCG	
5	#5	14	5	#4	14	7

DATE:	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
1/29/93	ADD WALL SPECS, REV. RET. WALL HEEL	DAK	DAK

PRODUCERS • REFINERS • MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS

CROWN CENTRAL PETROLEUM CORPORATION

GENERAL OFFICES • ONE NORTH CHARLES # P O BOX 1188 • BALTIMORE, MARYLAND 21203

PROJECT NO.: 92M-8551

COUNTY NO.: SDP 93-11

CLNT. NO.:

AutoCAD FILE NAME: 8551F=01.DWG

engineers project management planners

Designed Checked

H.A.C. D.A.K.

Date Scale

10-06-92 1"=20'

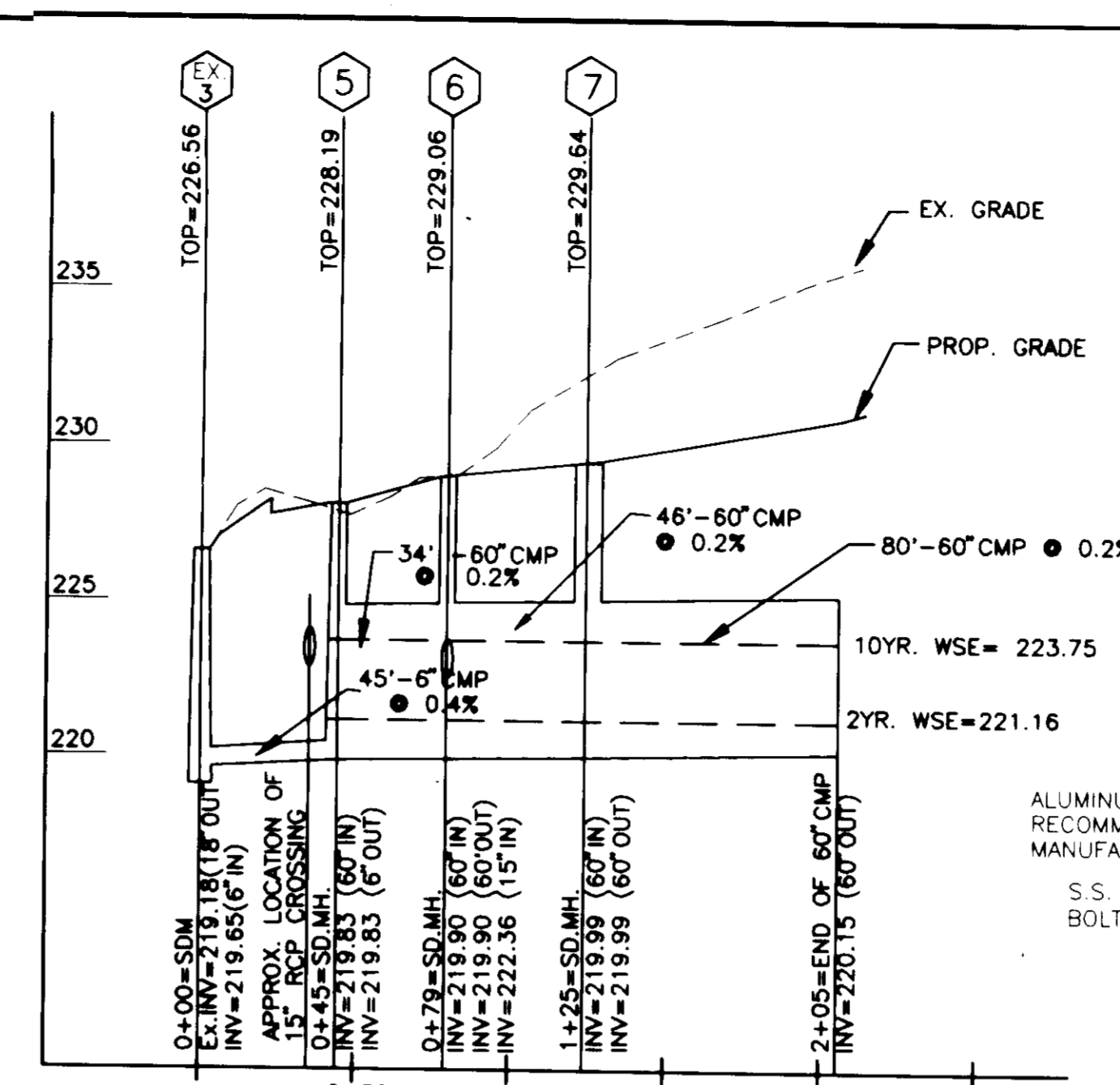
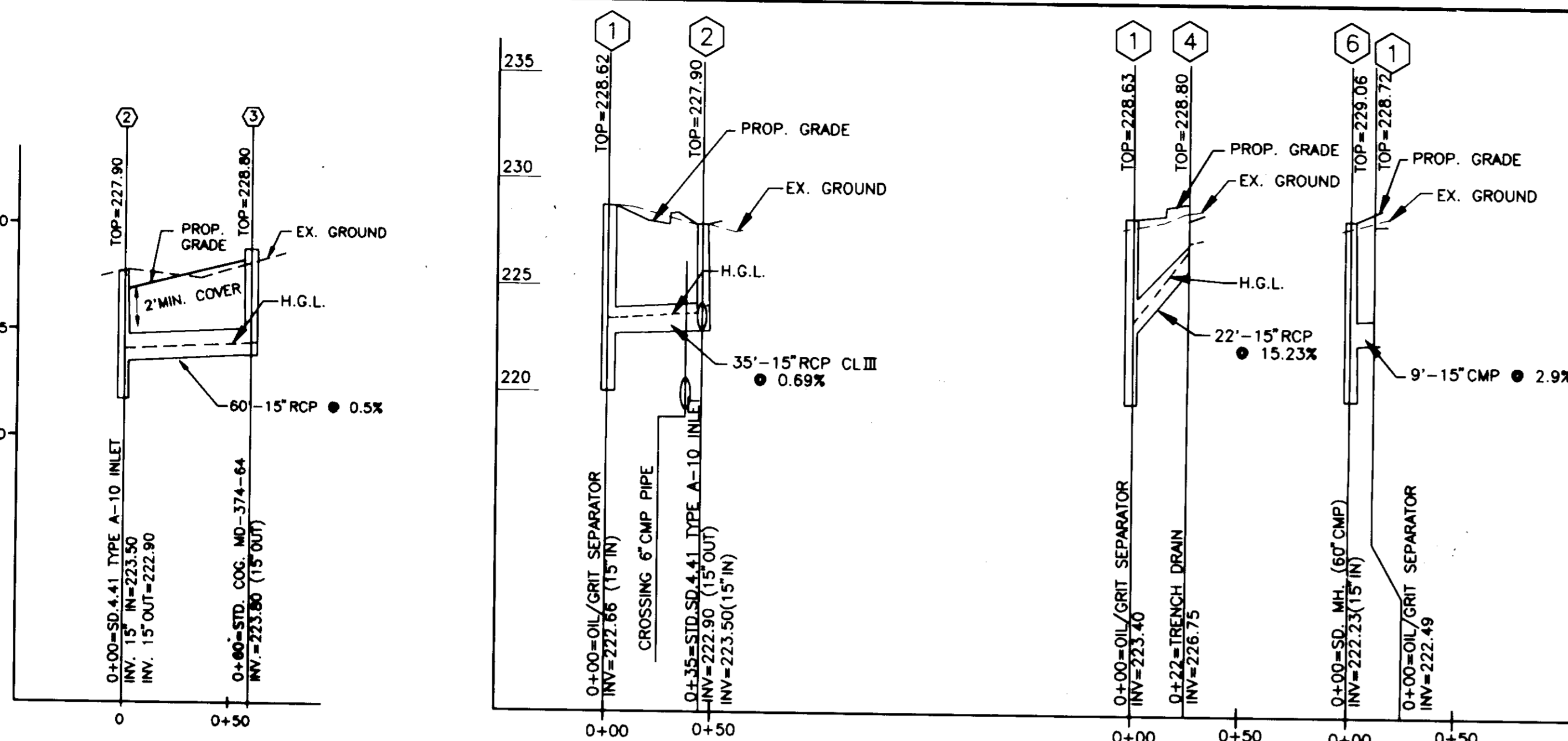
Project No. Sheet No.

92M-8551 5 OF 11

30 west gude suit: 120 rockville maryland 20850

p.o. box 10313 rockville 20849-0313 phone 301 294 6390

SHAK CONSULTANTS, INC.



STORM SEWER PROFILES

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

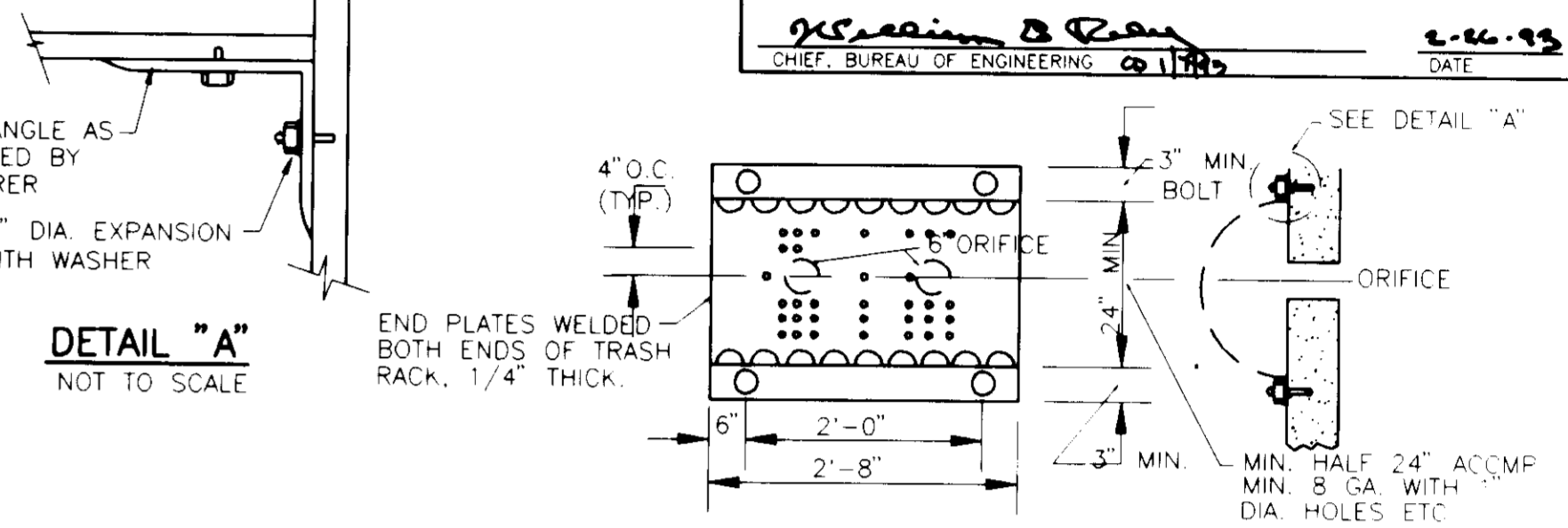
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyer 3/12/93
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND LAND DEVELOPMENT
James R. ... 3/19/93
 DIRECTOR DATE

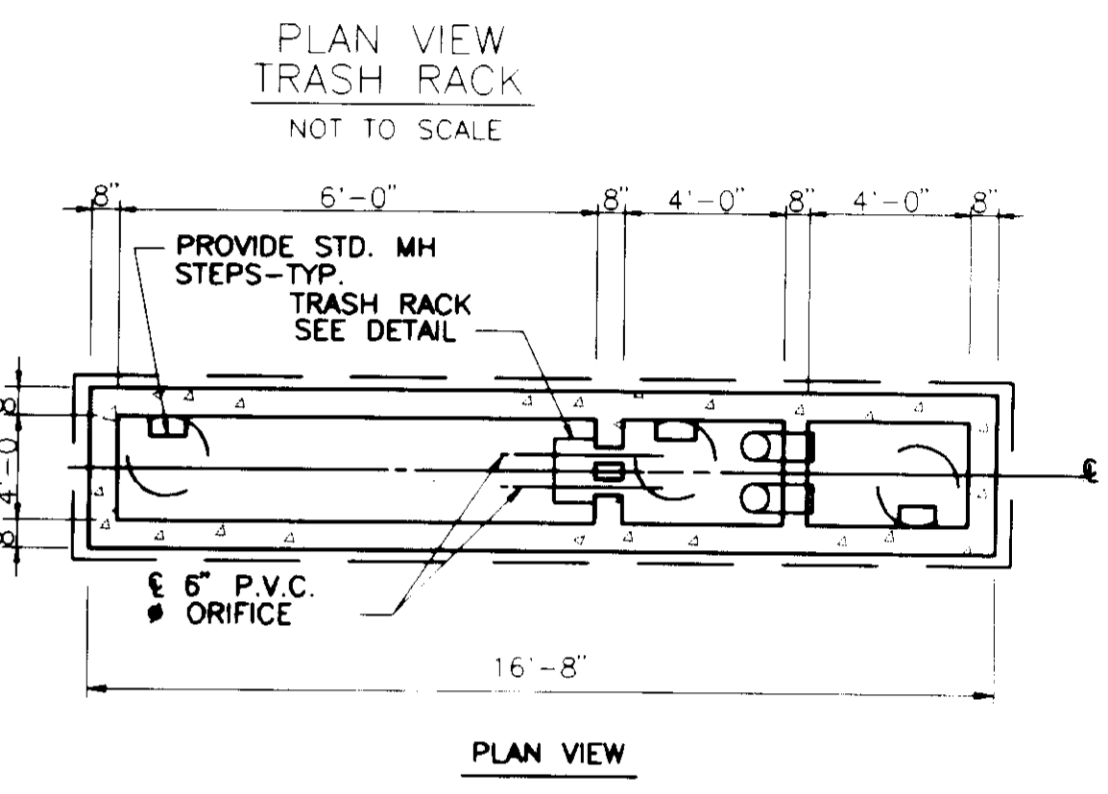
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Samuel H. ... 5/19/93
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED
James M. ... 3/10/93
 DIRECTOR DATE

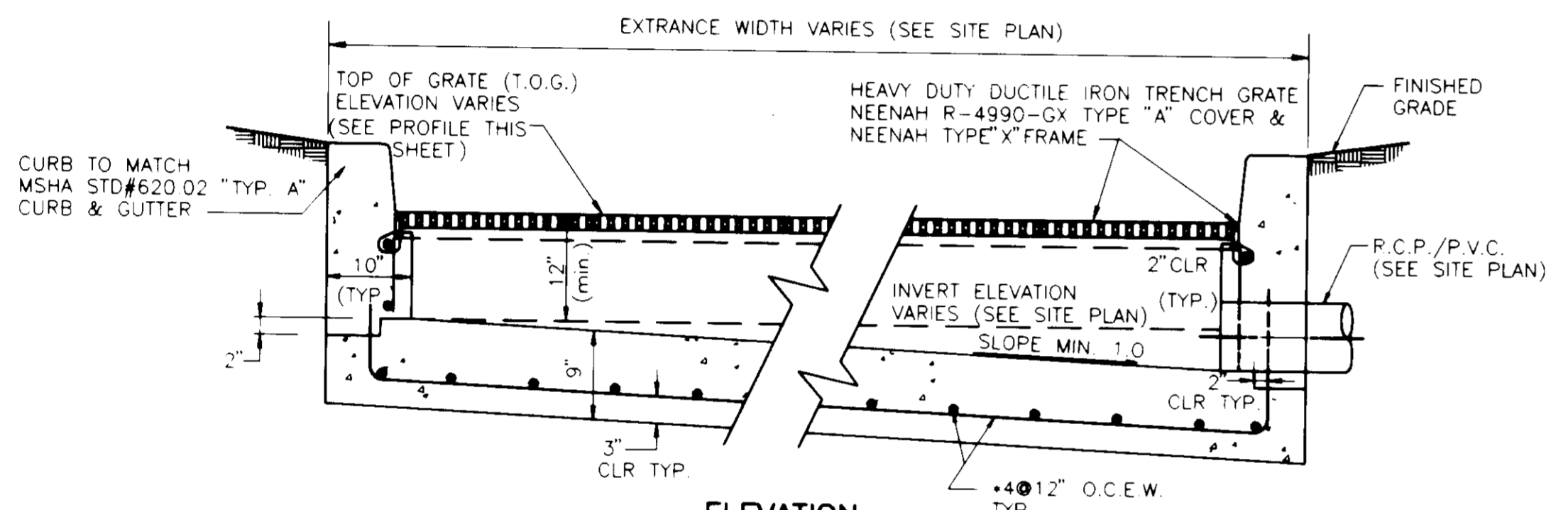
James M. ... 2-22-93
 CHIEF, BUREAU OF ENGINEERING DATE



DETAIL "A"
NOT TO SCALE



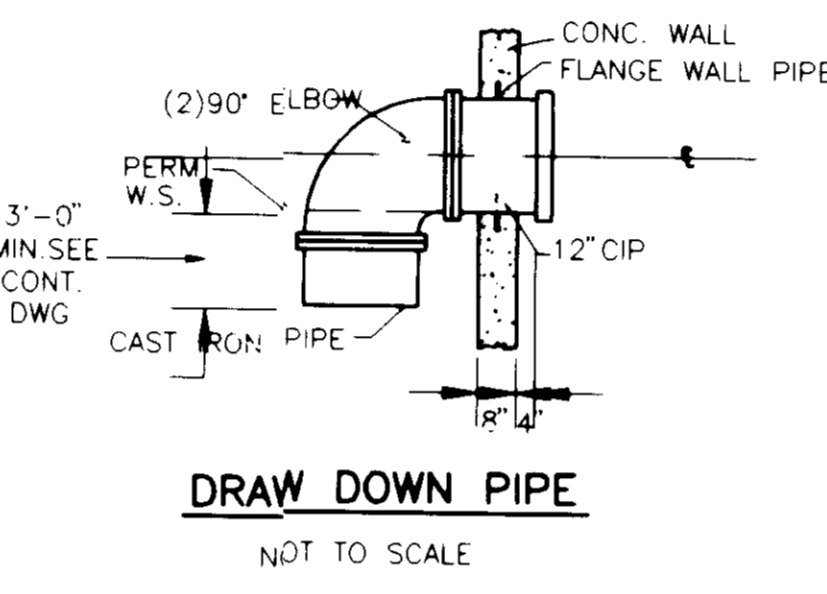
PLAN VIEW TRASH RACK
NOT TO SCALE



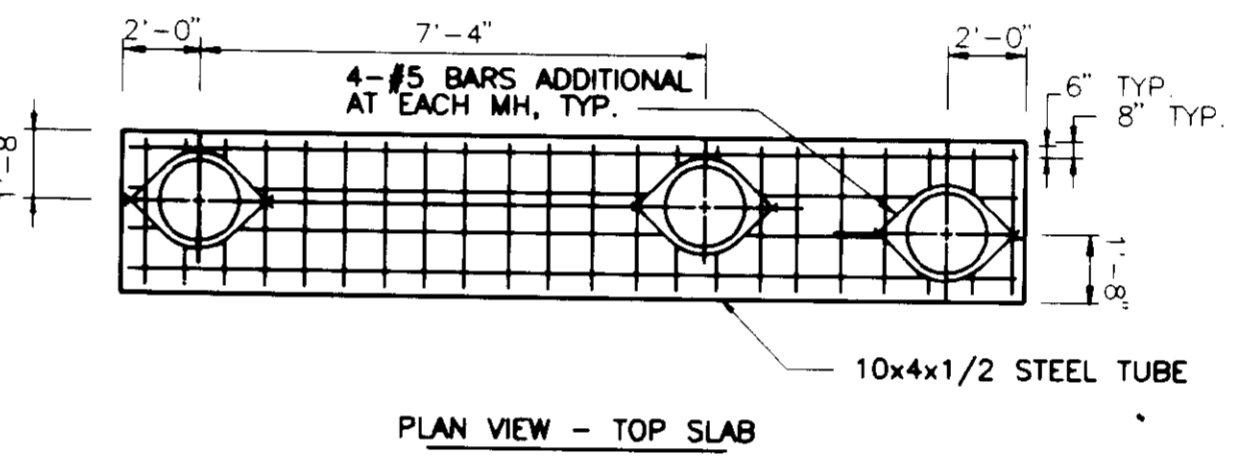
TYPICAL TRENCH DRAIN DETAIL
NOT TO SCALE

PLAN
NOT TO SCALE

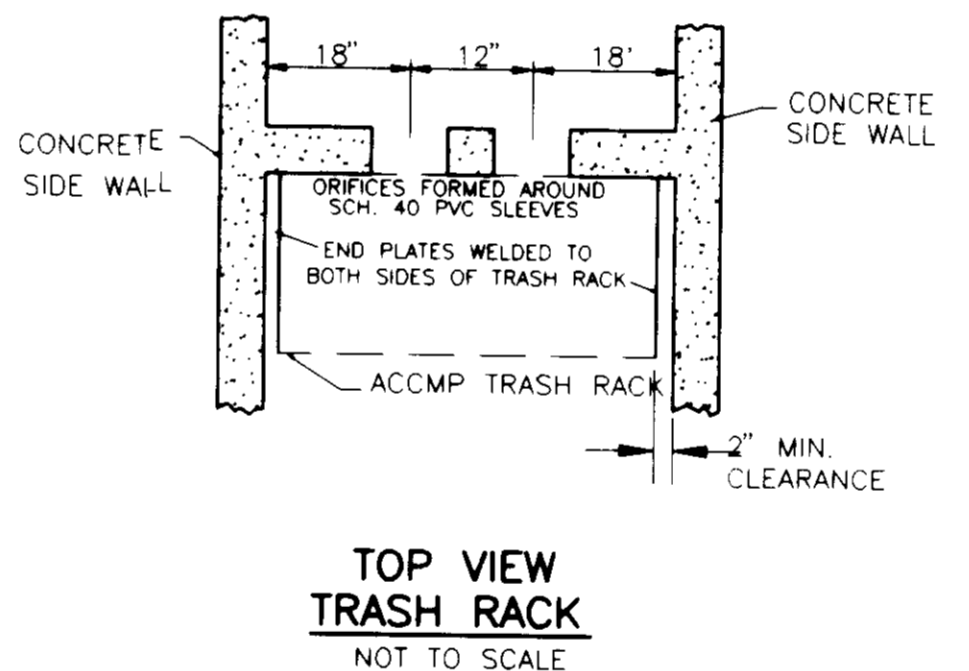
NOTE:
PIPE INLET & OUTLET LOCATION MAY VARY (SEE SITE PLAN)



DRAW DOWN PIPE
NOT TO SCALE



PLAN VIEW - TOP SLAB



TOP VIEW TRASH RACK
NOT TO SCALE

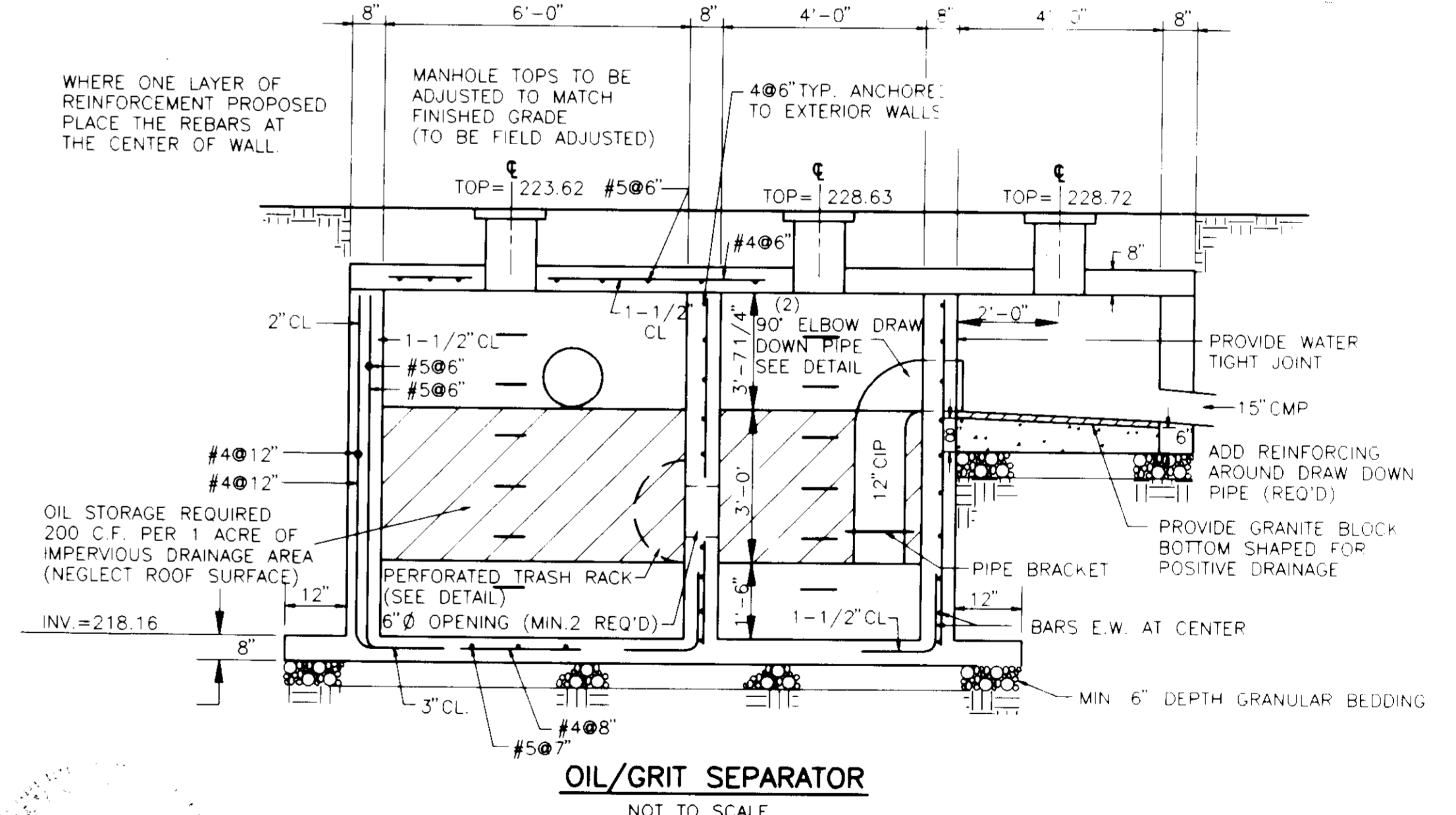
NOTE:
PAINT ALUMINUM SURFACE IN CONTACT WITH CONC. ACCORDING TO W.S.S.C. SPECIFICATION.

OIL/GRIT SEPARATOR VOLUME REQUIREMENTS

VOLUME REQUIRED:
 $200 \text{ FT}^3 \times 0.60 \text{ Ac.} = 120 \text{ FT}^3$

VOLUME PROVIDED:
 CHAMBER #1 6 FT. X 4 FT. X 3 FT. DEEP = 72 FT.³
 CHAMBER #2 4 FT. X 4 FT. X 3 FT. DEEP = 48 FT.³
 120 FT.³

HEAD LOSS TO PASS 10 YEAR STORM THROUGH DRAW DOWN PIPE
 $H = \left(\frac{Q_{10}}{CA} \right)^2 \frac{1}{2g} = 1.59 \text{ FT.}$
 $H = \left(\frac{Q_{10}}{CA} \right)^2 \frac{1}{2g} = 0.795 \text{ FT.}$



OIL/GRIT SEPARATOR
NOT TO SCALE

STORM DRAIN INLET COMPUTATIONS

INLET NO.	AREA (Ac.)	C	t_c (min)	Q (cfs)	STREET CROSS SLOPE	GUTTER CROSS SLOPE	GUTTER WIDTH (ft)	LENGTH (ft)	LENGTH PROVIDED (ft)	SPREAD PICKUP (%)	BYPASS (%)	INLET NO.	REMARKS
2	0.11	0.9	5	5.38	0.53	0.032	0.028	1.00	10	3.13	100	0	STD. SD. 4.41 TYPE A-10 INLET
3	0.9	0.9	5	5.38	0.92	0.029	0.037	1.00	10	2.94	100	0	STD. SD. 4.41 TYPE A-10 INLET
4	0.75	0.3	5	5.38	1.44	0.025	0.016	-	30	7.8	100	0	TRENCH DRAIN, SEE DETAIL THIS SHEET

STORM DRAIN COMPUTATIONS

STRUCTURE	FROM	TO	AREA (Ac.)	TOTAL	C	t_c (min)	I	Q_{10} (cfs)		DIAM (in)	LENGTH (ft)	INVERTS		SLOPE (%)	CAP Q (cfs)	VEL (fps)
								INCR	TOTAL			UPPER	LOWER			
RD	3	-	0.097	0.9	5	7	-	0.611	8	206	227.09	224.00	1.5	1.48	4.04	
2	2	0.19	0.29	0.9	5	7	1.19	1.81	15	60	223.80	223.50	0.5	4.57	3.51	
3	1	0.11	0.40	0.9	5	7	0.69	2.50	15	35	222.90	222.66	0.69	16.97	9.89	
4	1	-	0.75	0.6	0.3	5	7	1.87	15	22	226.75	223.40	15.23	25.21	12.03	
1	6	-	0.79	0.81	0.93	5	7	6.84	15	9	222.49	222.36	1.5	6.85	6.36	

STORM DRAIN STRUCTURE SCHEDULE (ALL STRUCTURES WILL BE BUILT IN ACCORDANCE TO HOWARD CO. STANDARDS AND REGULATIONS)

STRUCTURE NO.	TYPE	INVERT IN	INVERT OUT	TOP** ELEVATION	LOCATION** (SEE SITE PLAN FOR ACCURATE LOCATION)	REMARKS/DESCRIPTION
1	OIL GRIT SEPARATOR	223.40	222.49	228.62 (VARIES)	FRONT WEST OF SITE NEAR SOUTH WEST ISLAND	OIL GRIT SEPARATOR M.H. TOPS TO MATCH FINISHED PAVEMENT. (SEE THIS SHEET FOR DETAILS AND NOTES)
2	A-10 INLET	223.50	222.90	227.90	SOUTH WEST ISLAND	STD. SD. 4.41 TYPE A-10 INLET
3	A-10 INLET	224.00	223.80	228.80	SOUTH NEAR CURB RETURN	STD. SD. 4.41 TYPE A-10 INLET
4	TRENCH DRAIN	226.80	226.75	228.80	NORTH FRONT CORNER	TRENCH DRAIN, SEE DETAIL THIS SHEET
5	MANHOLE	219.83	219.83	228.19	FIRST M.H. OF SWM PIPE	STANDARD M.H. TOPS AND STRUCTURE
6	MANHOLE	219.90	219.90	229.06	SECOND M.H. OF SWM PIPE	STANDARD M.H. TOPS AND STRUCTURE
7	MANHOLE	219.99	219.99	229.64	THIRD M.H. OF SWM PIPE	STANDARD M.H. TOPS AND STRUCTURE

** TOPS SHOULD BE ADJUSTED TO MATCH FINISH PAVEMENT

CROWN CENTRAL PETROLEUM CORPORATION
 STORM SEWER PROFILES & COMPUTATIONS
 GAS STATION PROJECT
 8755 WASHINGTON BOULEVARD
 SUBD: WECHSLER PROPERTY ELECTION DISTRICT NO. 6
 TAX MAP #48 PARCEL A RECORD PLAT # F-92-160
 WATER CODE: 802 SEWER CODE: 4250000
 HOWARD COUNTY, MARYLAND

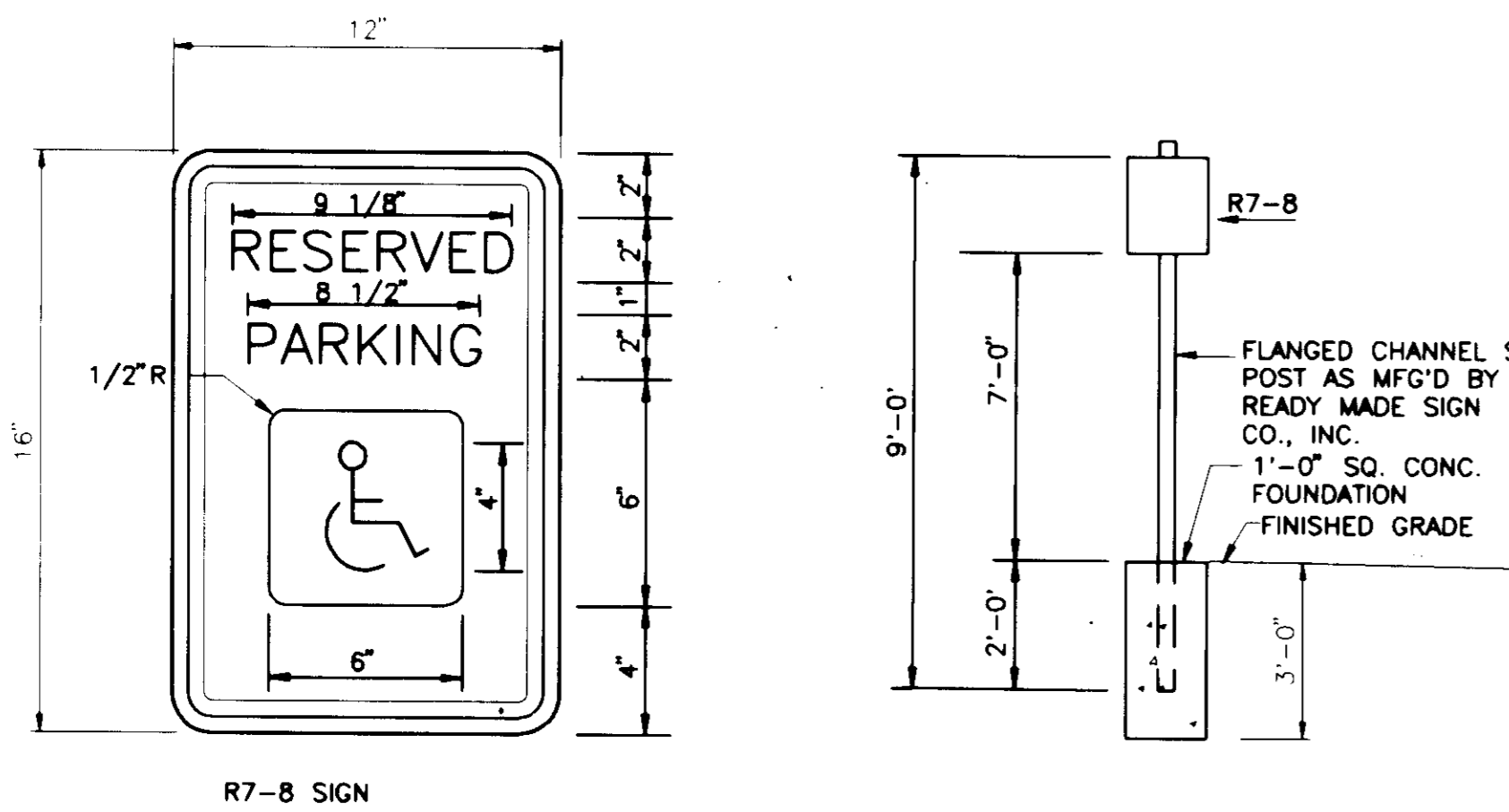
PROJECT NO.: 92M-8551
 COUNTY NO.: SDP 93-11
 CLNT. NO.:
 AutoCAD FILE NAME: 8551PRO2.DWG

engineers project management planners
 Designed Checked
 H.A.C. D.A.K.
 Date Scale
 10-06-92 1"=20'
 Project No. Sheet No.
 92M-8551 6 OF 11

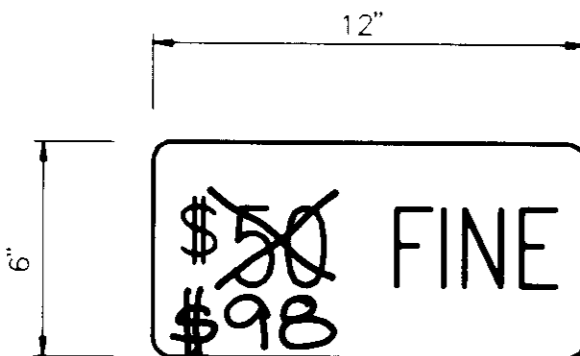
REVISIONS

DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

SCI
 30 west gude suite 120 rockville maryland 20850
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390
 SHAW CONSULTANTS, INC.



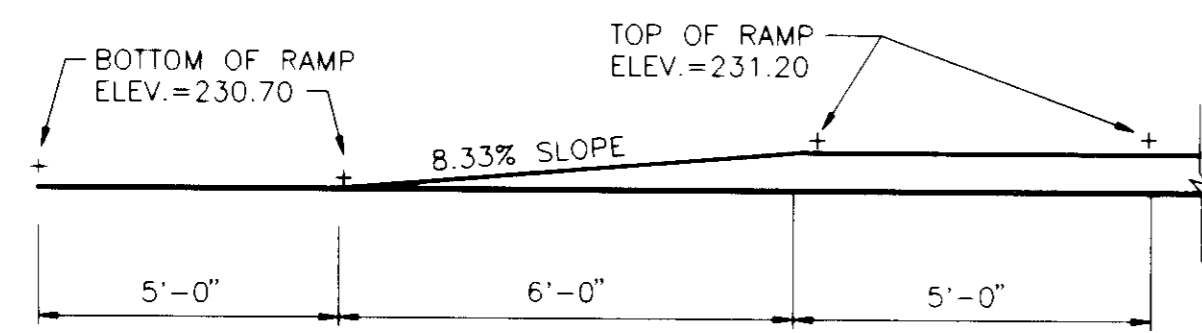
R7-8 SIGN



HANDICAPPED PARKING SIGN DETAIL

NOT TO SCALE

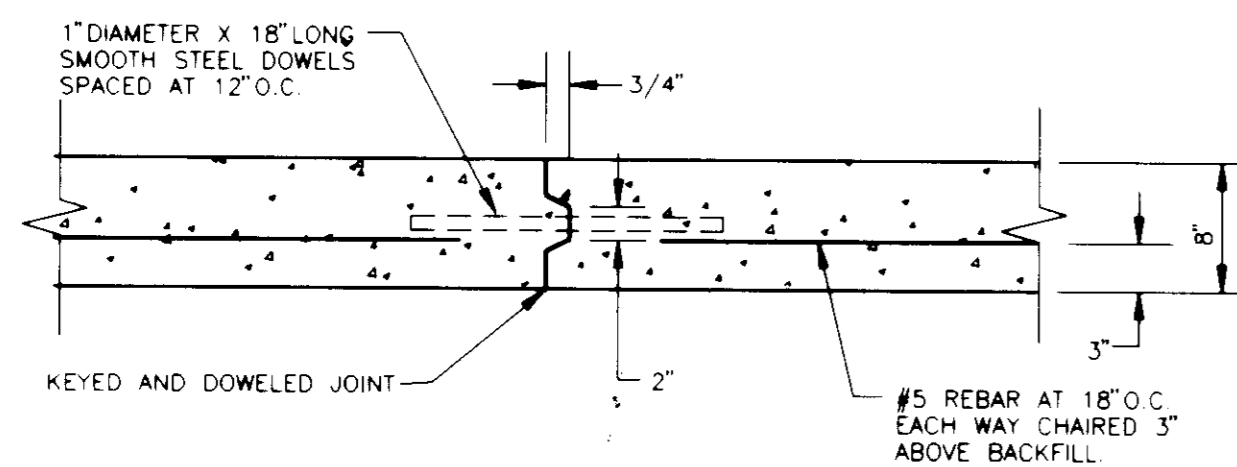
- NOTE:
- 1.) A \$50.00 FINE SIGN, (ALUMINUM BLANK 6"X12"X0.080in. THICK) WITH 2 SINGLE POST MOUNTING HOLES. THE FINE SIGN SHALL BE MOUNTED UNDERNEATH THE BELOW R7-8 RESERVED PARKING SIGN.
 - 2.) REFER TO THE STANDARD HOWARD CO. HANDICAPPED PARKING SIGN FOR MORE SPECIFICATIONS.



HANDICAPPED RAMP

NOT TO SCALE

NOTE: THE HANDICAPPED RAMP DETAIL INDICATES BOTH THE NORTH AND WEST SIDE ELEVATIONS OF CROWN SHOP.



CONSTRUCTION JOINT

NOT TO SCALE

1/2" PREFORMED EXP. JOINT FILLER 1/2" HOT POURED ASPHALT JOINT SEALER AT TOP

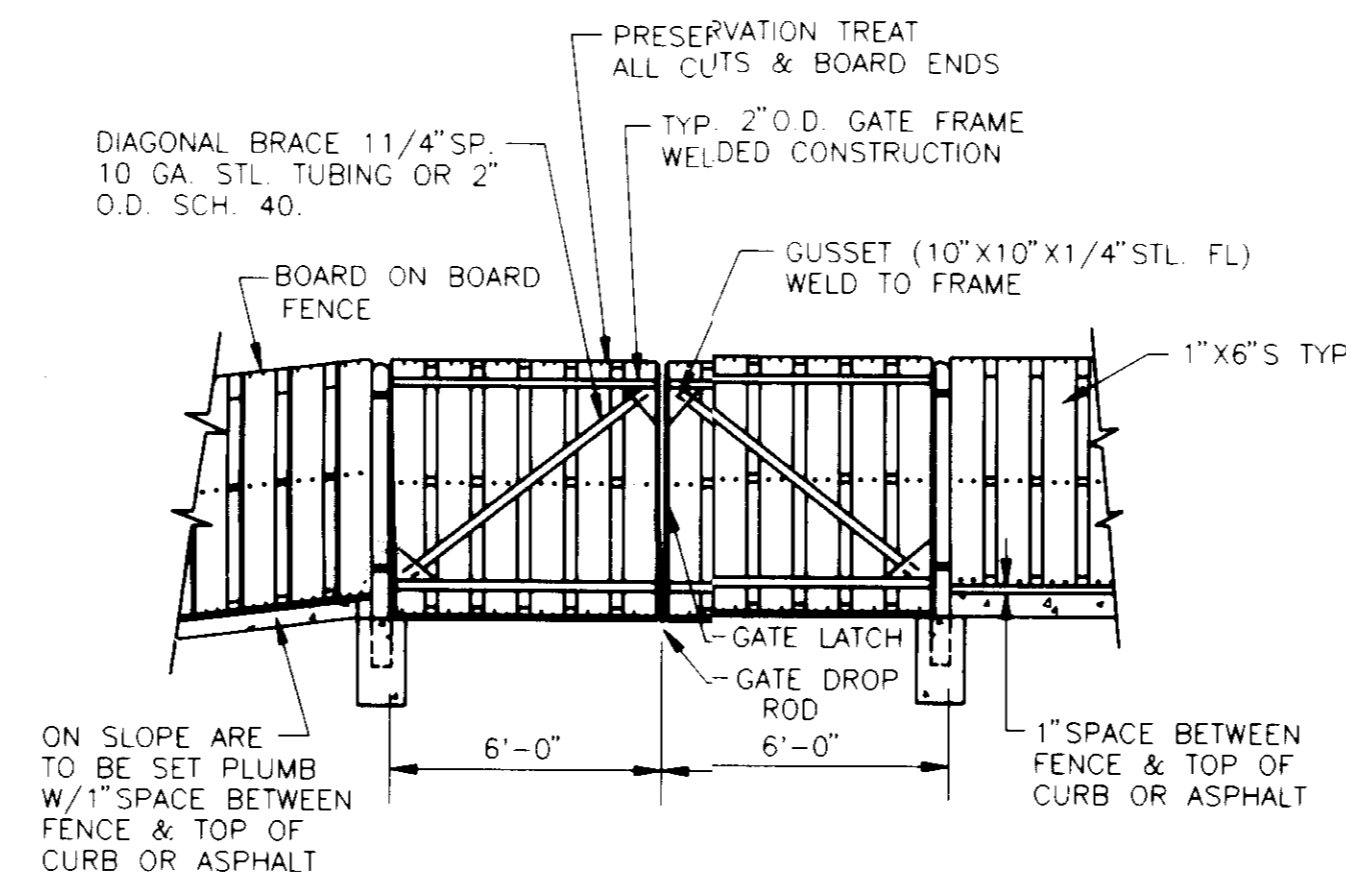
VERTICAL CURB DETAIL

N.T.S.

NOTE:
TO BE USED AROUND CROWN BUILDING AND PUMP ISLANDS.
FOR CURB AROUND PARKING AREA USE HOWARD CO. R-3.03.
FOR CURB AND GUTTER SECTIONS USE HOWARD COUNTY R-3.01.

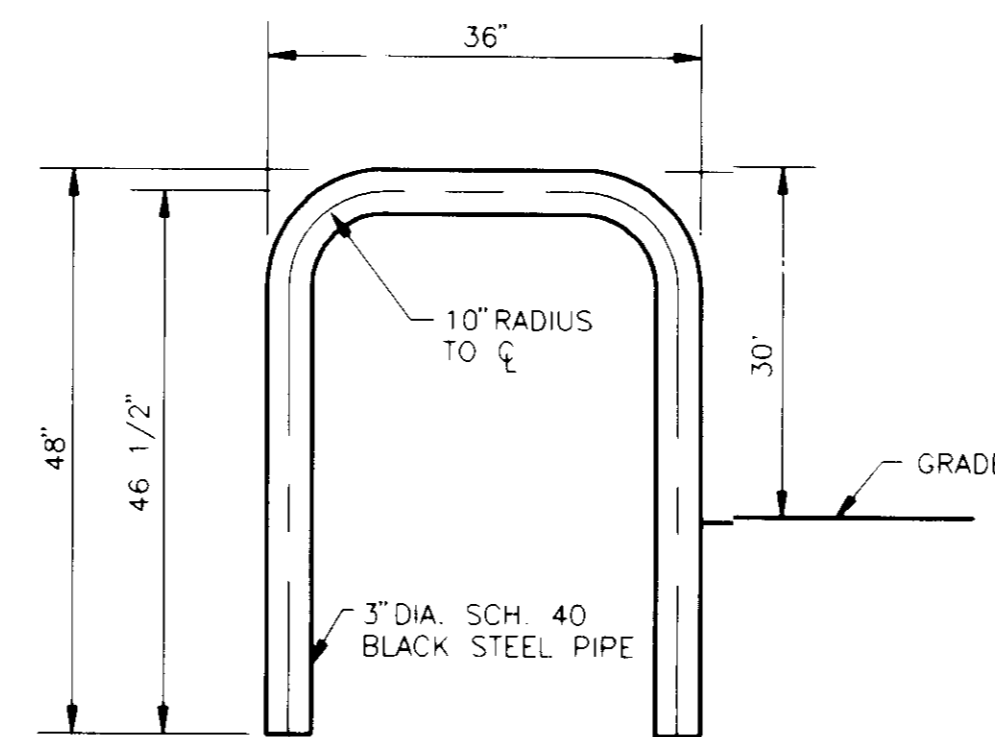
FENCING NOTES:

- 1.) FENCING CONTRACTOR SHALL NOT INSTALL ANY TYPE OF COMPANY LOGO OR SIMILAR IDENTIFICATION SIGN ON COMPLETED FENCE INSTALLATION.
- 2.) ALL GRADE MARKINGS/LUMBER STAMPS ETC. TO BE FACED TOWARDS CENTER LINE OF FENCE TO MINIMIZE VISIBILITY.



6 FOOT HIGH ELEVATION - DUMPSTER ENCLOSURE

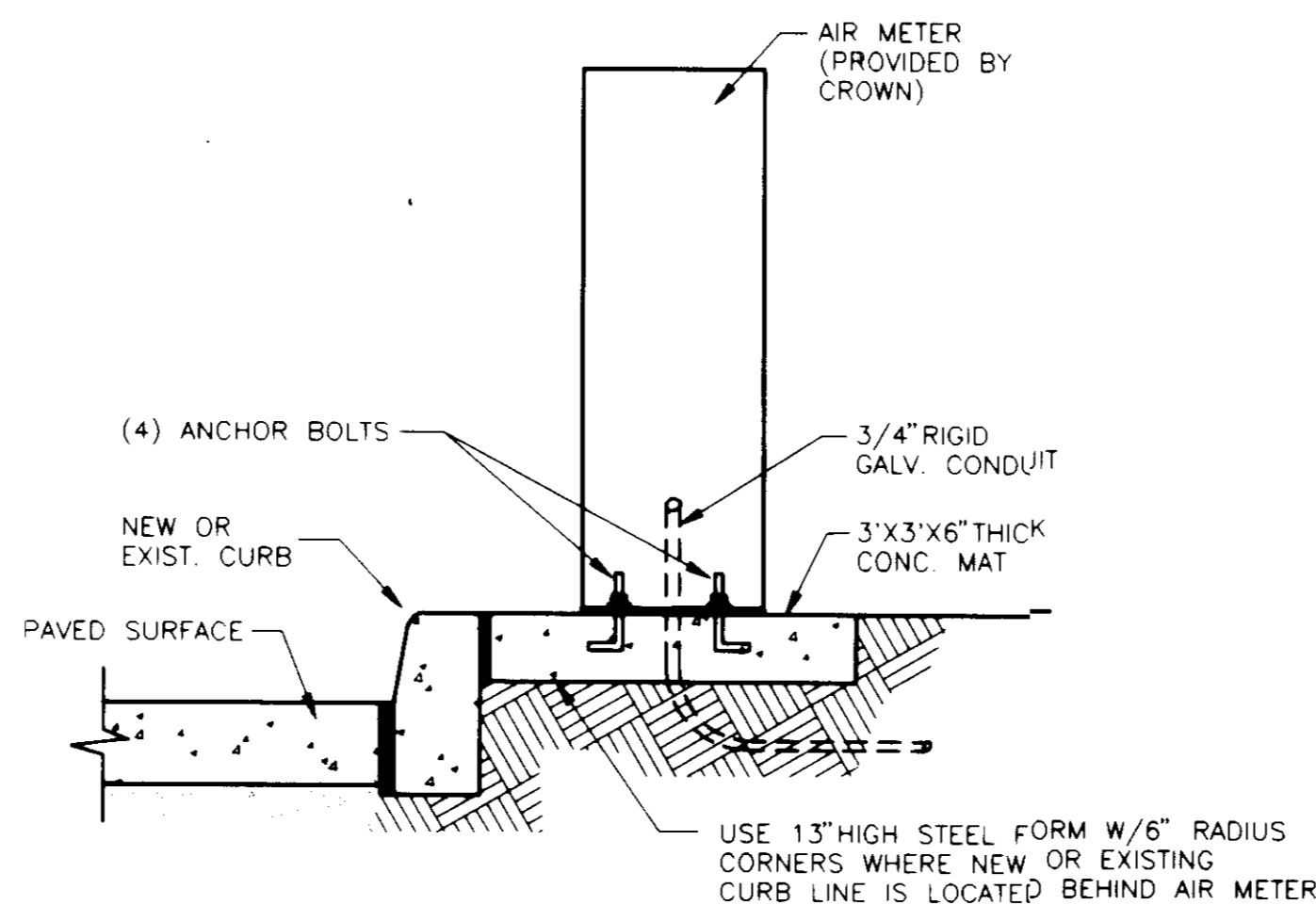
N.T.S.



BUMPER GUARD DETAIL

N.T.S.

NOTE: ALL BUMPER GUARDS ARE TO BE SANDBLASTED & RECEIVE ONE SHOP COAT OF RED OXIDE PRIMER PRIOR TO SHIPMENT.



AIR METER DETAIL

N.T.S.

NOTE:

THIS PLAN DOES NOT APPROVE ANY SIGN LOCATION, SIZE OR TYPE. CONTACT DILP FOR SIGN CODE REQUIREMENTS.

11-24-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd 3/12/93
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

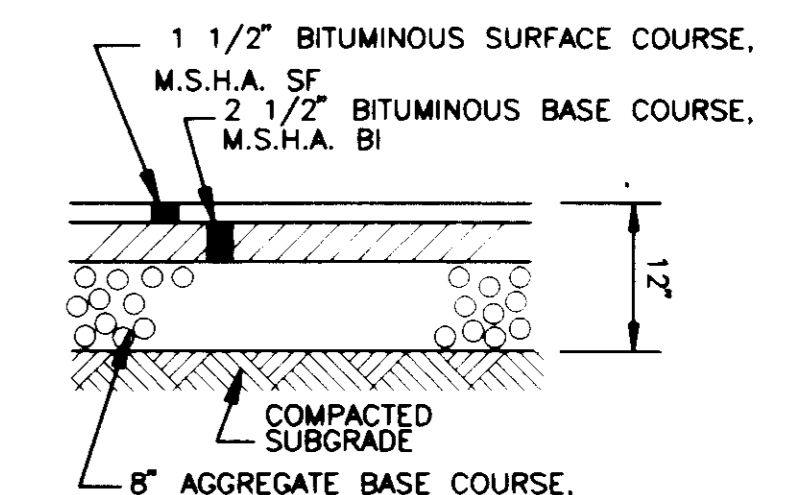
James R. Smith 3/19/93
DIRECTOR DATE

Elmira Helonath 3/19/93
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. Smith 3/10/93
DIRECTOR DATE

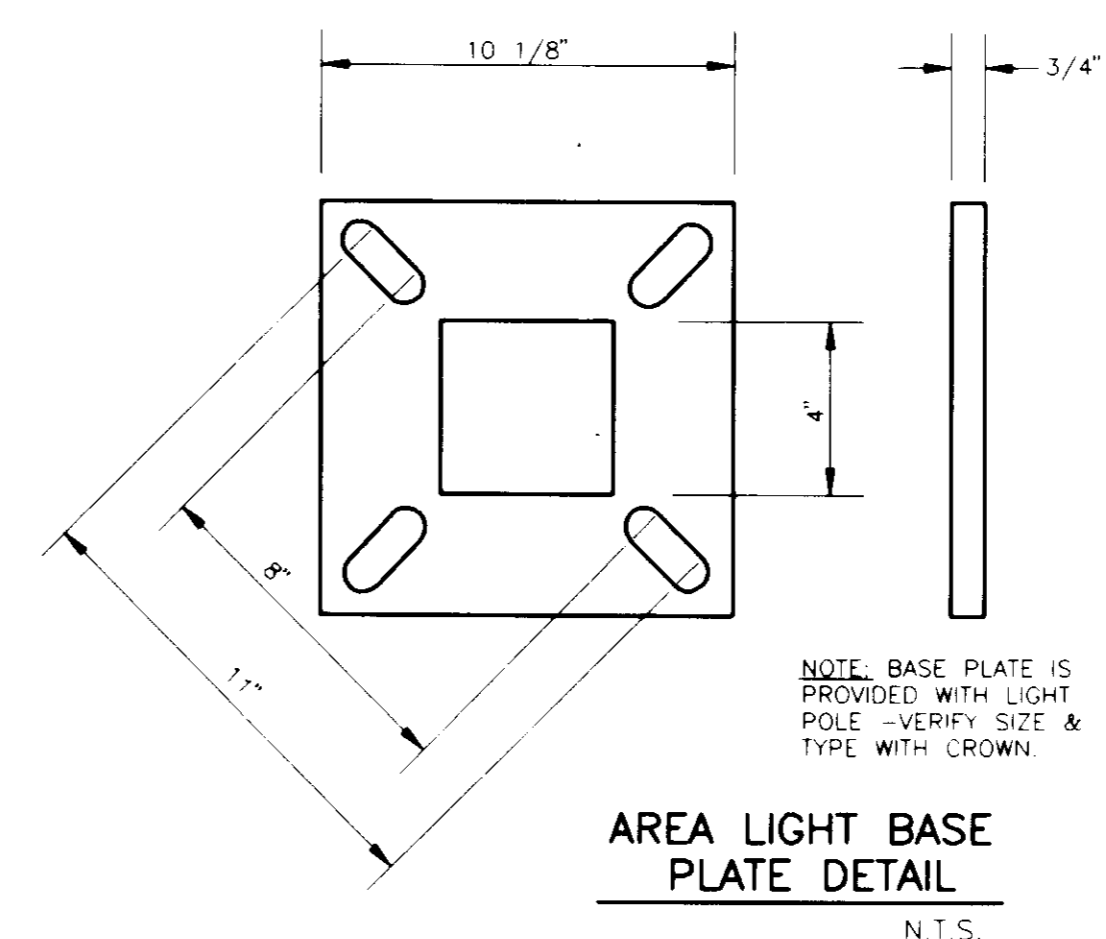
James M. Smith 2-26-93
CHIEF BUREAU OF ENGINEERING DATE



NOTE: ASPHALT PAVEMENT DESIGN IS BASED ON AN ASSUMED C.B.R. VALUE OF 10

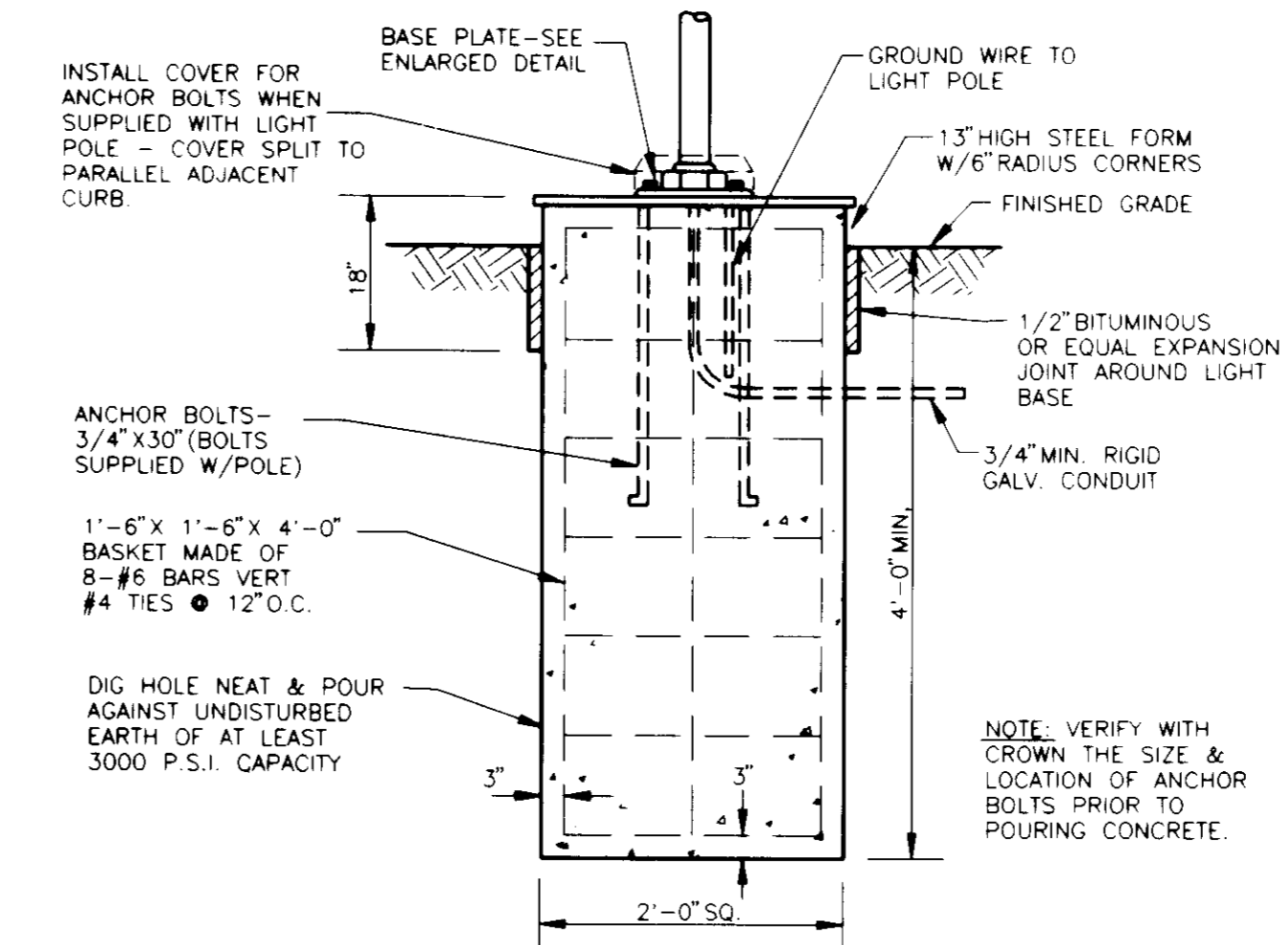
PAVING DETAIL BASED ON HOWARD CO. STANDARD P-2 (R-2.01, VOL. IV)

NOT TO SCALE



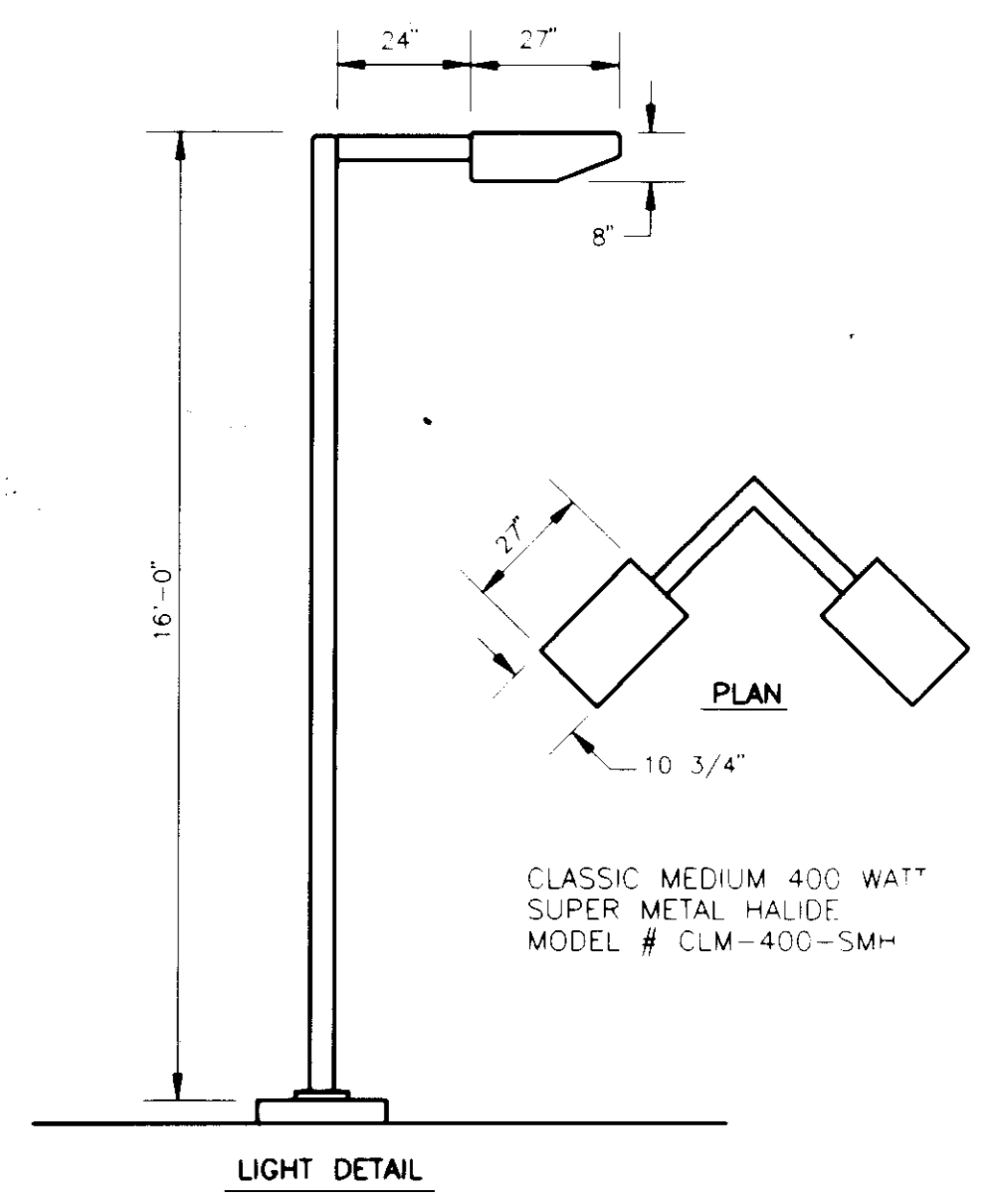
AREA LIGHT BASE PLATE DETAIL

N.T.S.



AREA LIGHT FOUNDATION DETAIL

N.T.S.



AREA LIGHT ELEVATION & PLAN

N.T.S.

PRODUCERS • REFINERS • MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS

CROWN CROWN CENTRAL PETROLEUM CORPORATION

GENERAL OFFICES • ONE NORTH CHARLES • P.O. BOX 1188 • BALTIMORE, MARYLAND 21203

SITE DETAILS
GAS STATION PROJECT
8755 WASHINGTON BOULEVARD
SUBD. WECHSLER PROPERTY ELECTION DISTRICT No. 6
TAX MAP #48 PARCEL A RECORD PLAT# F-92-160
WATER CODE B02 SEWER CODE 4250000
HOWARD COUNTY, MARYLAND

PROJECT NO.: 92M-8551
COUNTY NO.: SDP 93-11
CLNT. NO.:
AutoCAD FILE NAME: 8551SD.DWG

DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

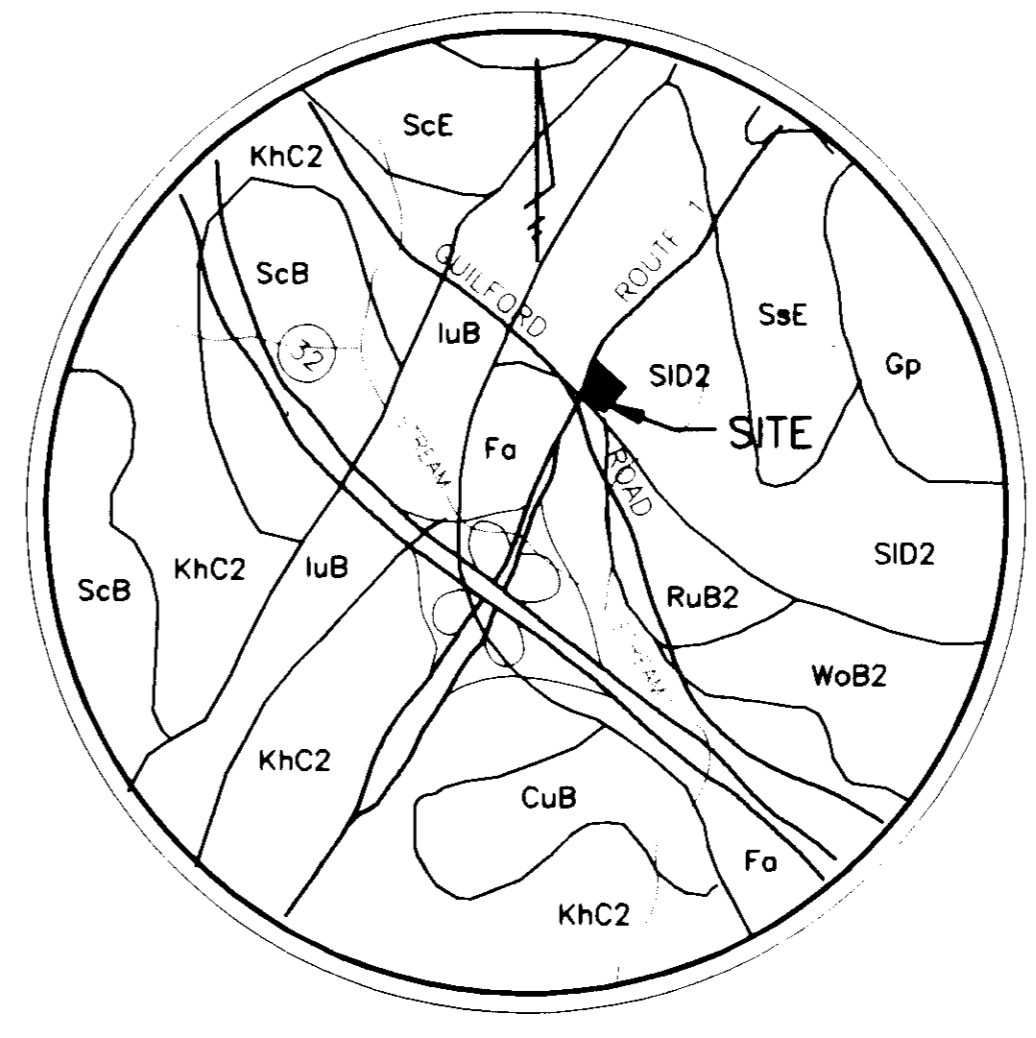
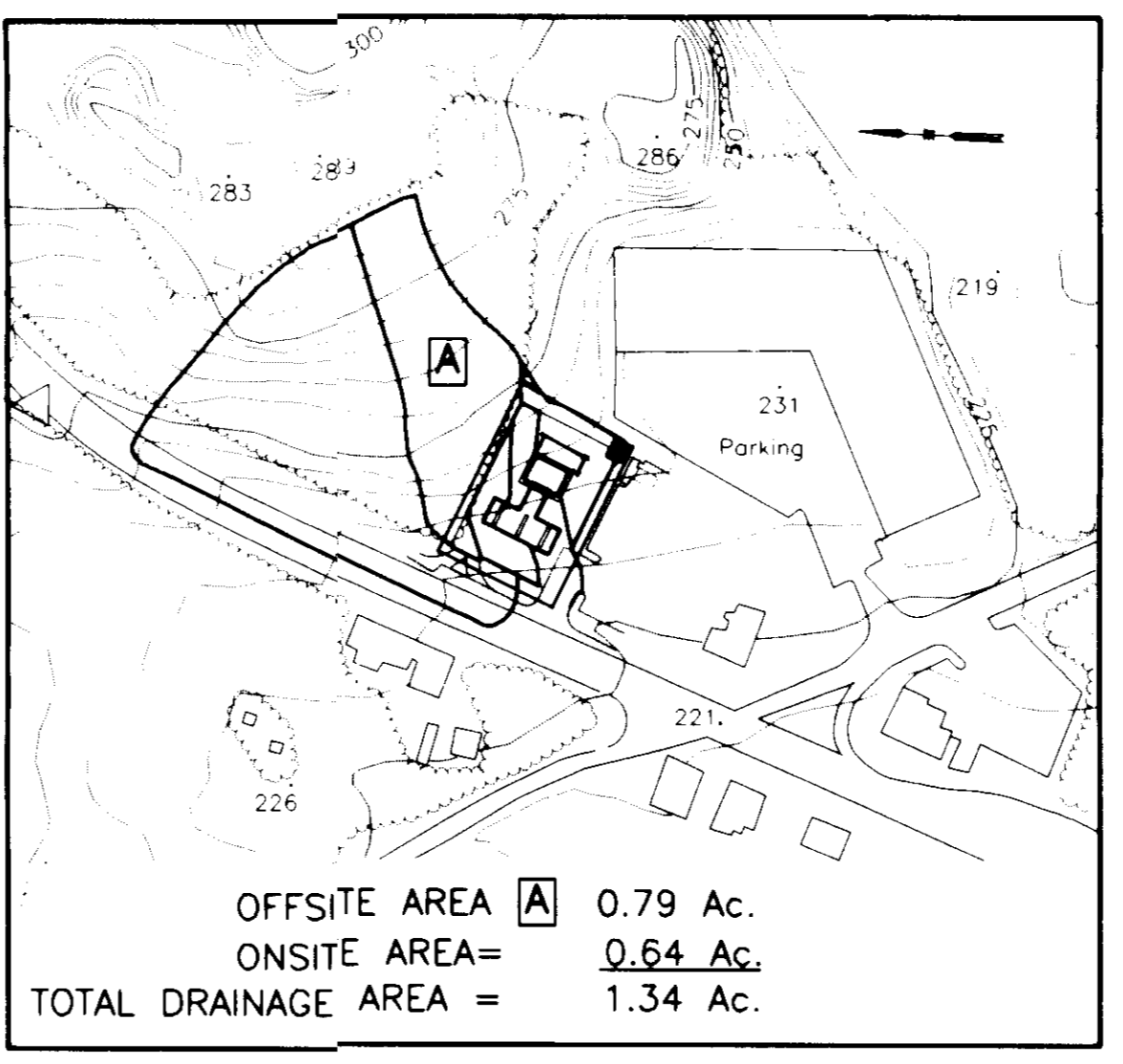
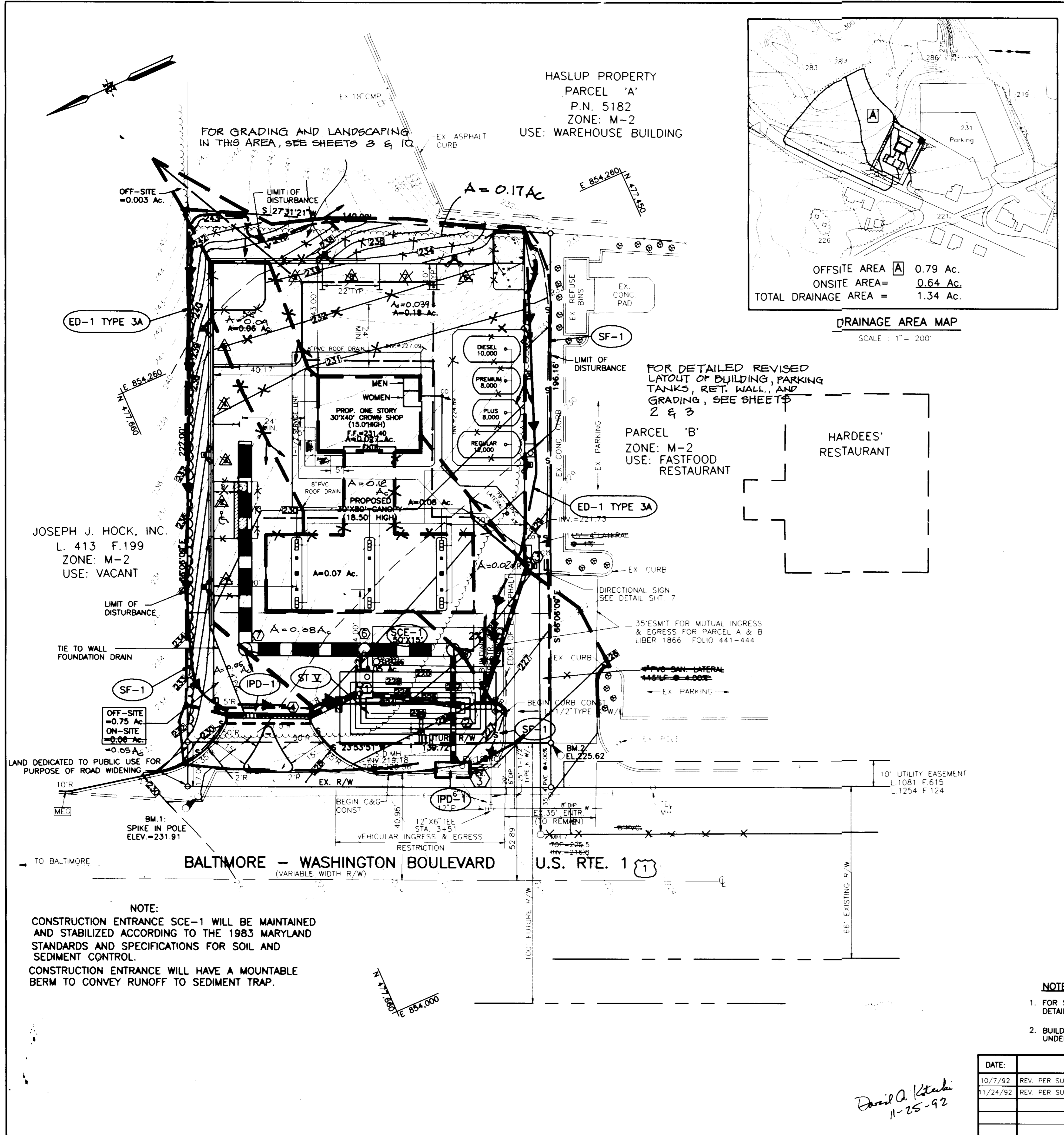
engineers project management planners

sci 30 west gude suite 120 rockville maryland 20850

p.o. box 10313 rockville 20849-0313 phone 301 294 6390

SHAK CONSULTANTS, INC.

Designed	Checked
H.A.C.	D.A.K.
Date	Scale
10-06-92	1"=20'
Project No.	Sheet No.
92M-8551	7 OF 11

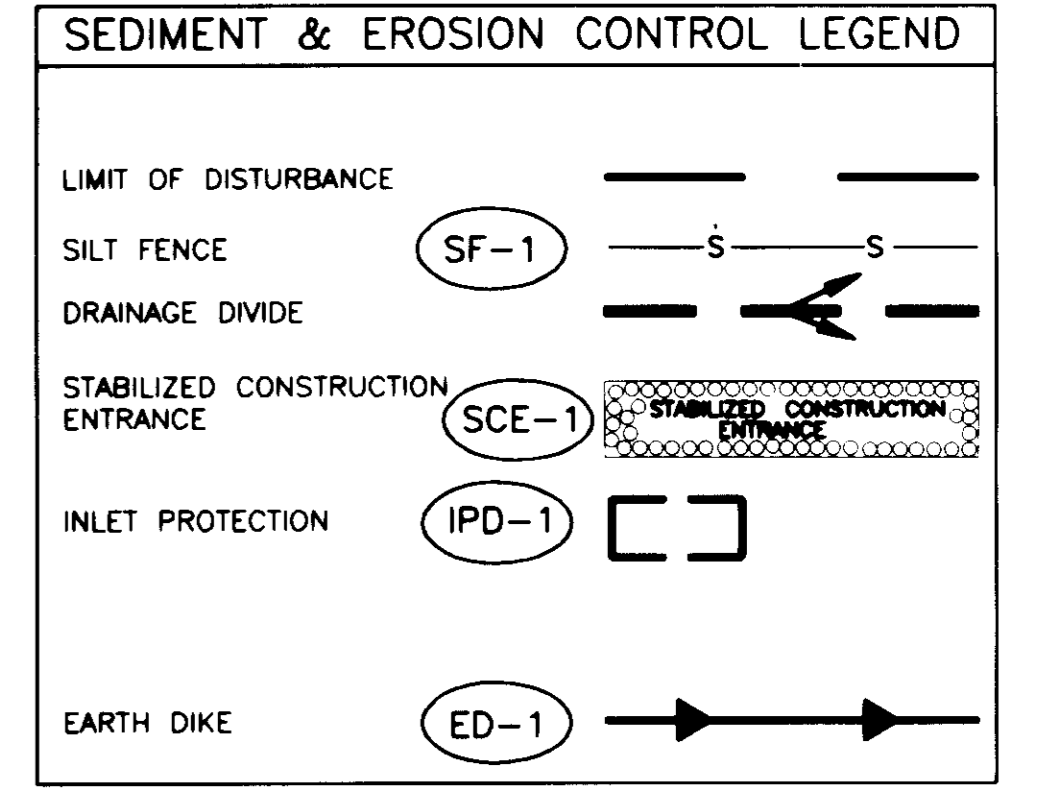


APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James M. Boyd* 11-25-92
 DATE: 11-24-92

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR: *James M. Boyd* 3/19/93
 DATE: 3/19/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James M. Boyd* 3/19/93
 DATE: 3/19/93

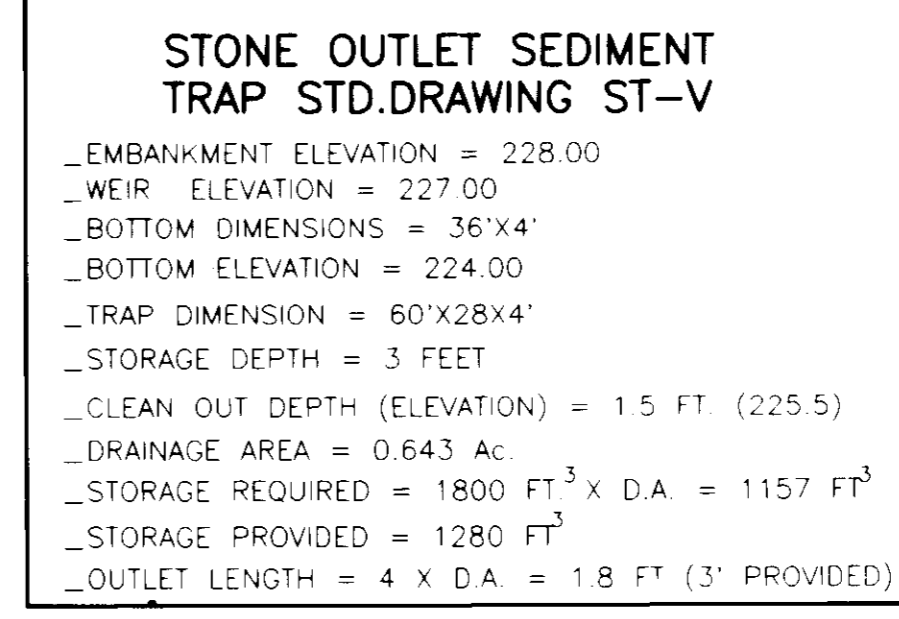
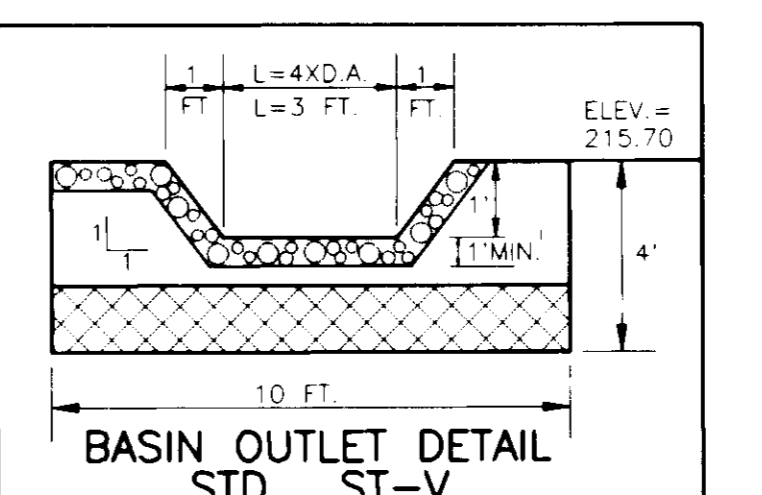
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF BUREAU OF ENGINEERING: *James M. Boyd* 11/25/92
 DATE: 11-25-92



NOTE: PROPERTY FALLS COMPLETELY WITHIN THE SID2 SOIL GROUP

MAP SYMBOL	SOIL NAME	DESCRIPTION
SID2	SASSAFRAS LOAM	10 TO 15% SLOPES, MODERATELY ERODED
Fa	FALLSINGTON LOAM	-----
RuB2	RUMFORD LOAMY SAND	1 TO 5% SLOPES, MODERATELY ERODED

* SOILS MAP AND TABLE INFORMATION OBTAINED FROM "SOIL SURVEY" FOR HOWARD COUNTY, MARYLAND



OWNER/DEVELOPER'S CERTIFICATION

"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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER: *Daniel D. Suter*
 BUSINESS DEVELOPMENT REPRESENTATIVE: **DANIEL D. SUTER**
 ENGINEER'S CERTIFICATION: _____

"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."

SIGNATURE OF ENGINEER: *David A. Koticki*
 ENGINEER: **DAVID A. KOTICKI, P.E.**
 MD P.E. # 19025

DATE: 11-25-92

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE: *James M. Boyd*
 S.S. SOIL CONSERVATION SERVICE

DATE: 11/20/92

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

SIGNATURE: *Jeffrey Z. Hill*
 HOWARD S.C.D.

DATE: 11/22/92

- NOTE:**
- FOR SEDIMENT & EROSION CONTROL DETAILS AND NOTES SEE SHEET 9.
 - BUILDING AND CANOPY ROOF DRAINS RUN UNDERGROUND.

DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

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 GENERAL OFFICES: ONE NORTH CHARLES • P.O. BOX 1108 • BALTIMORE, MARYLAND 21203

SEDIMENT & EROSION CONTROL PLAN & DRAINAGE DIVIDE PLAN
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Daniel A. Koticki
 11-25-92

CONSTRUCTION SEQUENCE / EROSION AND SEDIMENT CONTROL NARRATIVE

THIS PROJECT IS TO BE CONSTRUCTED IN SUCH A MANNER AS TO MINIMIZE THE EFFECTS OF SILTATION AND EROSION. THE SILTATION-EROSION CONTROL PLAN IS TO BE ADHERED TO AND ALL NECESSARY MEASURES WILL BE TAKEN TO INSURE THAT UNDISTURBED AREAS NOT CONTAMINATED BY RUNOFF FROM THE CONSTRUCTION AREA.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A GASOLINE SERVING FACILITY ON 0.8434 ACRES. THE SITE IS LOCATED IN HOWARD COUNTY, MARYLAND, APPROXIMATELY 200 FEET NORTH OF GUILFORD ROAD.

EXISTING SITE CONDITIONS:

THE PROPOSED SITE IS AN AREA OF MODERATELY STEEP TERRAIN WITH UNDISTURBED LAND BORDERING THE SITE TO THE NORTH AND AN EXISTING WAREHOUSE TO THE EAST TO THE SOUTH. THE SITE BORDERS AN EXISTING HARDEE'S RESTAURANT. APPROXIMATELY 85 PERCENT OF THE SITE IS COVERED WITH TREES. THE REMAINING 15 PERCENT CONSISTS OF SPARSE NATURAL GROWTH OF WEEDS AND GRASSES.

SOILS DATA:

SEE SOILS MAP AND DESCRIPTION ON SHEET 8.

EROSION AND SEDIMENT CONTROL MEASURES:

CUT AND FILL SLOPES SHALL BE GRADED AT A MAXIMUM SLOPE OF 2:1. EMBANKMENT OR EXCAVATED SLOPES DENuded FOR A PERIOD GREATER THAN 30 DAYS SHALL BE TEMPORARILY SEEDDED AND/OR MULCHED ACCORDING TO HOWARD SOIL CONSERVATION DISTRICT SPECIFICATIONS (SEE NOTES THIS SHEET). REVEGETATION SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE.

SILTATION CONTROL PROGRAM:

CONTROL WILL BE EXERCISED THROUGH THE INSTALLATION OF DIVERSION DIKES, SILT FENCES, FOR PERIMETER CONTROL AND AT THE BASE OF SLOPES AND INLET PROTECTION AT STORM SEWER INLETS. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE LATEST EDITION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

CONSTRUCTION SEQUENCE:

ESTIMATED DURATION OF ACTIVITIES IS 80 DAYS. THIS SEQUENCE WILL BE SUBJECT TO CHANGE BY THE HOWARD COUNTY SITE INSPECTOR AND CROWN CORPORATION.

1. GRADING PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF INSPECTION LICENSE, AND PERMIT PRIOR TO STARTING THE CONSTRUCTION.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
3. CLEAR AND GRUB TO INSTALL TEMPORARY DIVERSION DIKE, SILT FENCE AND SILT TRAP ONLY.
4. THE PLACEMENT OF SILT FENCES SHALL BE COMPLETED PRIOR TO THE REMAINDER OF THE SITE BEING CLEARED AND ROUGH GRADED.
5. EXCAVATE AREA FOR SWM PIPES, STORM SEWER PIPES, OIL AND GRIT SEPARATOR STRUCTURE AND TRENCH DRAIN.
6. INSTALL SWM PIPES, STORM SEWER PIPES AND STRUCTURES, SANITARY SEWER LATERAL, WATER METER AND SERVICE.
7. CONSTRUCT NEW FOUNDATIONS (BUILDING, CANOPY AND RETAINING WALL). INSTALL UNDERGROUND STORAGE TANKS AND REMAINING UNDERGROUND UTILITIES. PROVIDE TEMPORARY SEEDING AS REQUIRED.
8. INSTALL CURB AND GUTTER, MAKE SMOOTH TRANSITION TO EXISTING CURB LINE, AND AVOID FALSE GUTTERS.
9. COMPLETE CONSTRUCTION OF RETAINING WALL.
10. BRING AREA AROUND RETAINING WALL UP TO FINAL GRADE AND STABILIZE WITH TEMPORARY SEEDING.
11. THE BASE STONE FOR PAVEMENT SHOULD BE APPLIED WITHIN 5 DAYS OF REACHING FINAL GRADE FOR THE SUB-GRADE.
12. CONSTRUCT CONCRETE PAD AND PUMP ISLANDS.
13. ONCE CURB AND GUTTER AND UTILITIES ARE COMPLETED AND STORM SEWER IS FUNCTIONAL, INLET PROTECTION CAN BE INSTALLED.
14. INSTALL BASE PAVING.
15. INSTALL NEW BUILDING AND CANOPY.
16. INSTALL FINAL PAVING AND PERMANENTLY STABILIZE SITE WITH PLANTING AND SEEDING.
17. AFTER CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH PERMANENT VEGETATION, AND AFTER PERMISSION IS GRANTED FROM THE COUNTY SEDIMENT CONTROL INSPECTOR MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED.

11-24-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd 3/12/93
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James S. Smith 3/19/95
DIRECTOR

Elmira J. Helmond 3/19/93
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James S. Smith 3/19/95
DIRECTOR

James S. Smith 3/19/95
CHIEF, BUREAU OF ENGINEERING

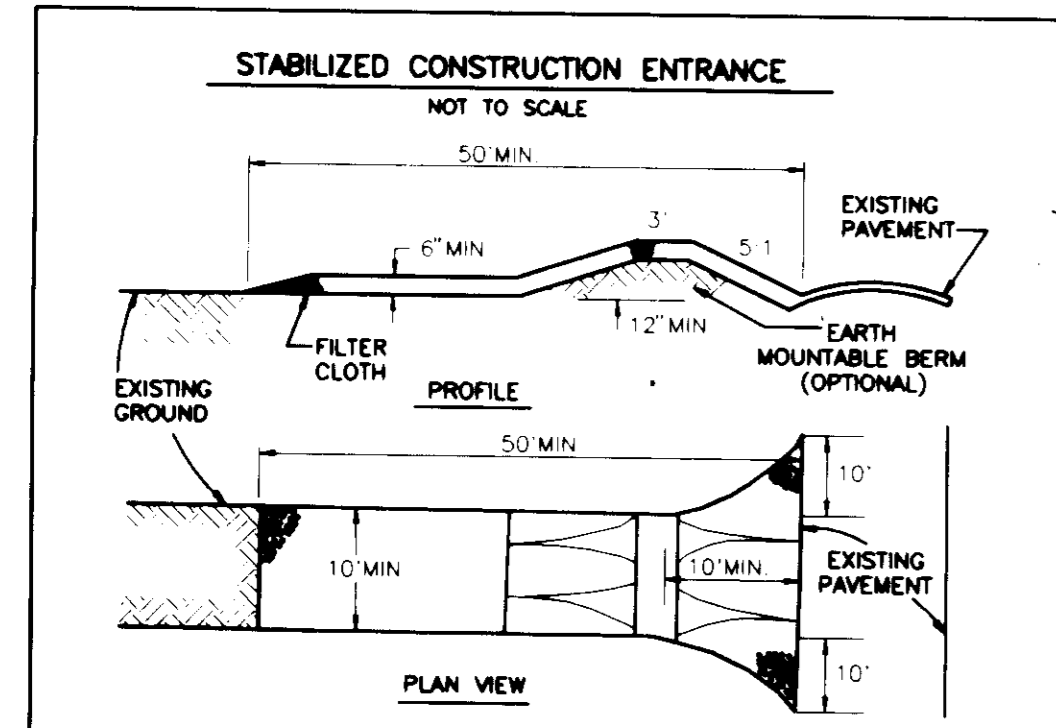
HOWARD SOIL CONSERVATION DISTRICT

STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, 880-3450.
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 MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT 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 ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. 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.
5. 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 SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. 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.
7. SITE ANALYSIS

TOTAL AREA OF SITE	0.643	0.643 ACRES
AREA DISTURBED	0.643	0.643 ACRES
AREA TO BE ROOFED OR PAVED	0.577	0.577 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.09	0.146 ACRES
TOTAL CUT	1.250	8,276 CU. YDS
TOTAL FILL		0.5 CU. YDS

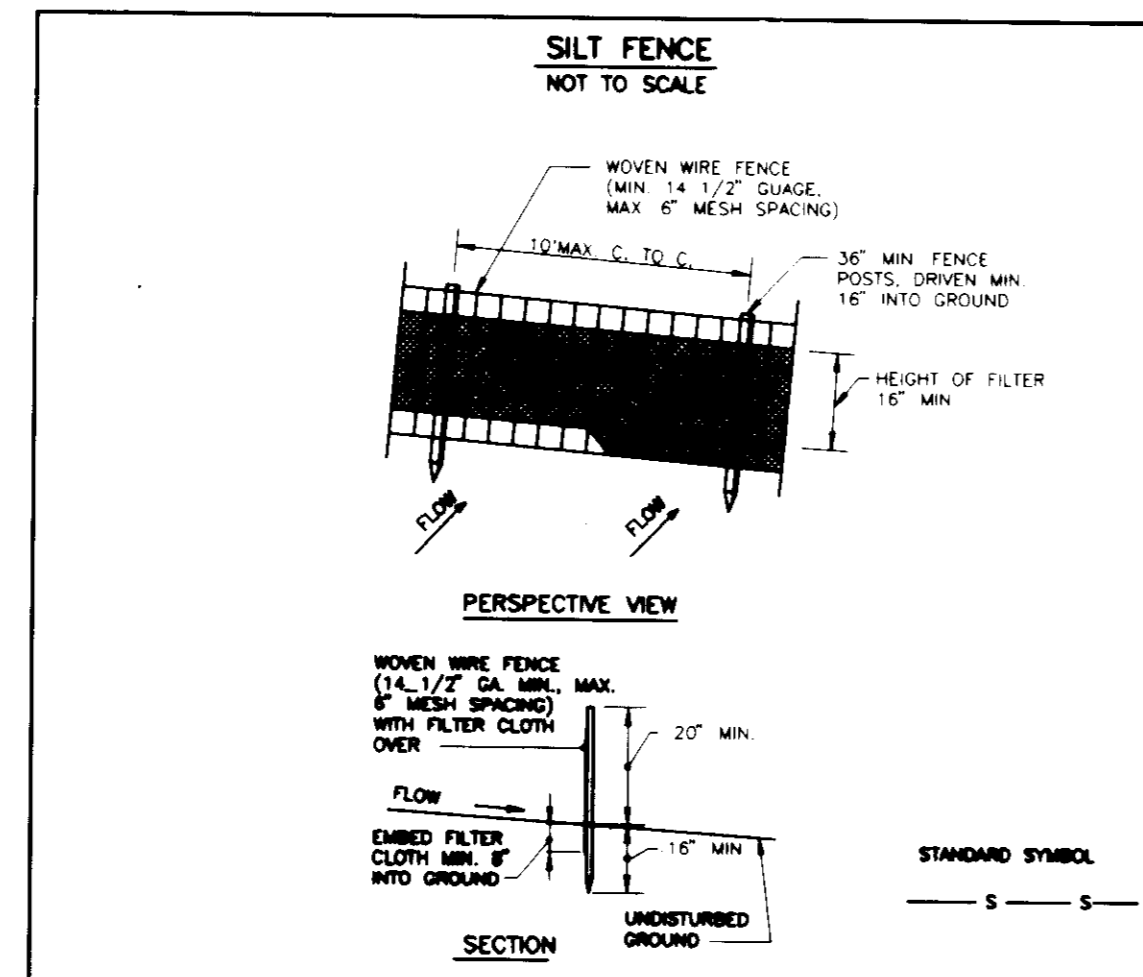
 OFFSITE WASTE/BORROW AREA LOCATION TO BE PREAPPROVED BY THE COUNTY SEDIMENT CONTROL INSPECTOR.
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO 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.
11. 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.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
3. THICKNESS - NOT LESS THAN SIX (6) INCHES
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOVABLE BERM WITH 5:1 SLOPES WILL BE PROVIDED.
7. 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, DISPERSED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

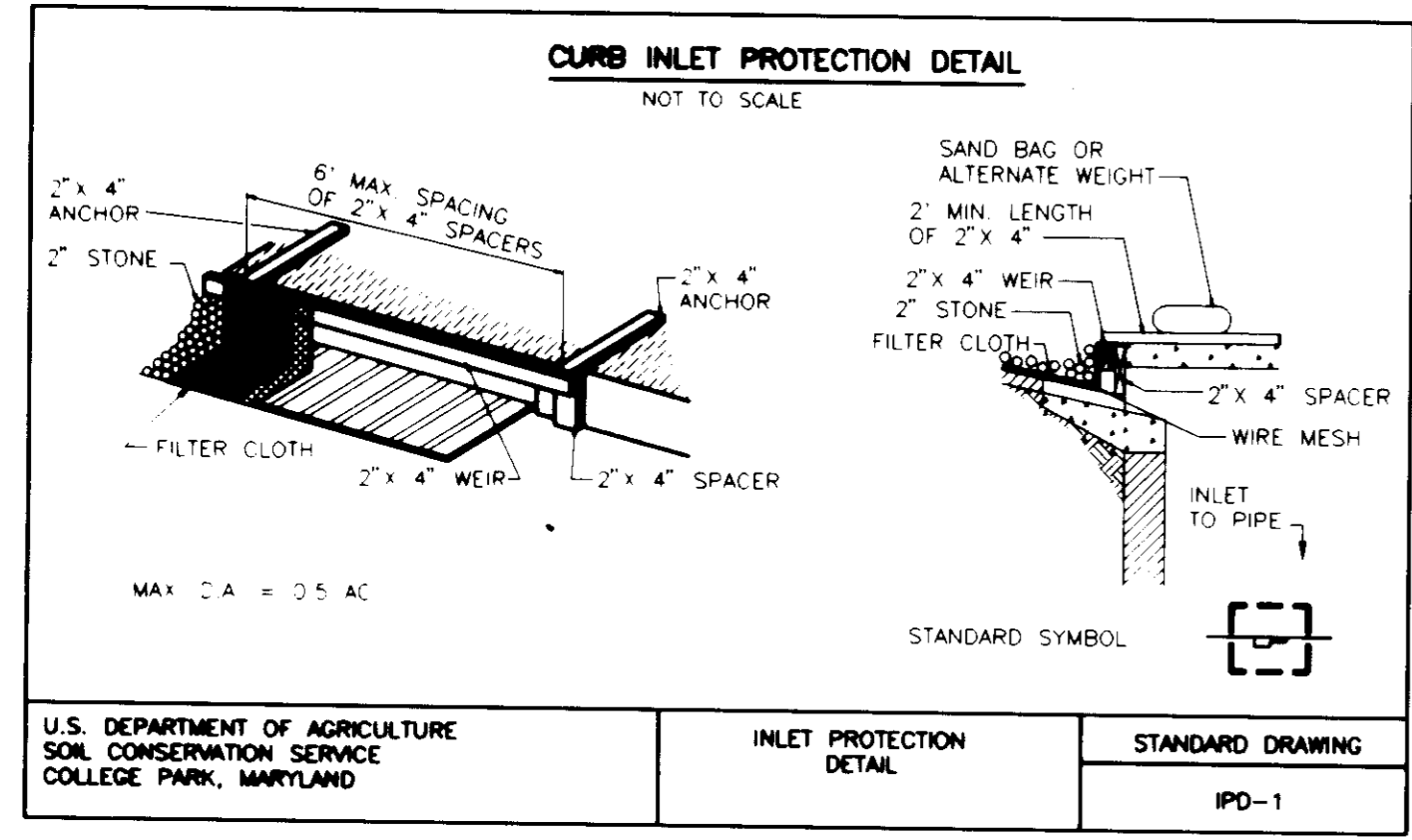
SOIL CONSERVATION SERVICE	STABILIZED CONSTRUCTION ENTRANCE	HOWARD COUNTY
COLLEGE PARK, MD		SCE-1



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SOIL CONSERVATION SERVICE	SILT FENCE	STANDARD DRAWING
COLLEGE PARK, MD		SF-1



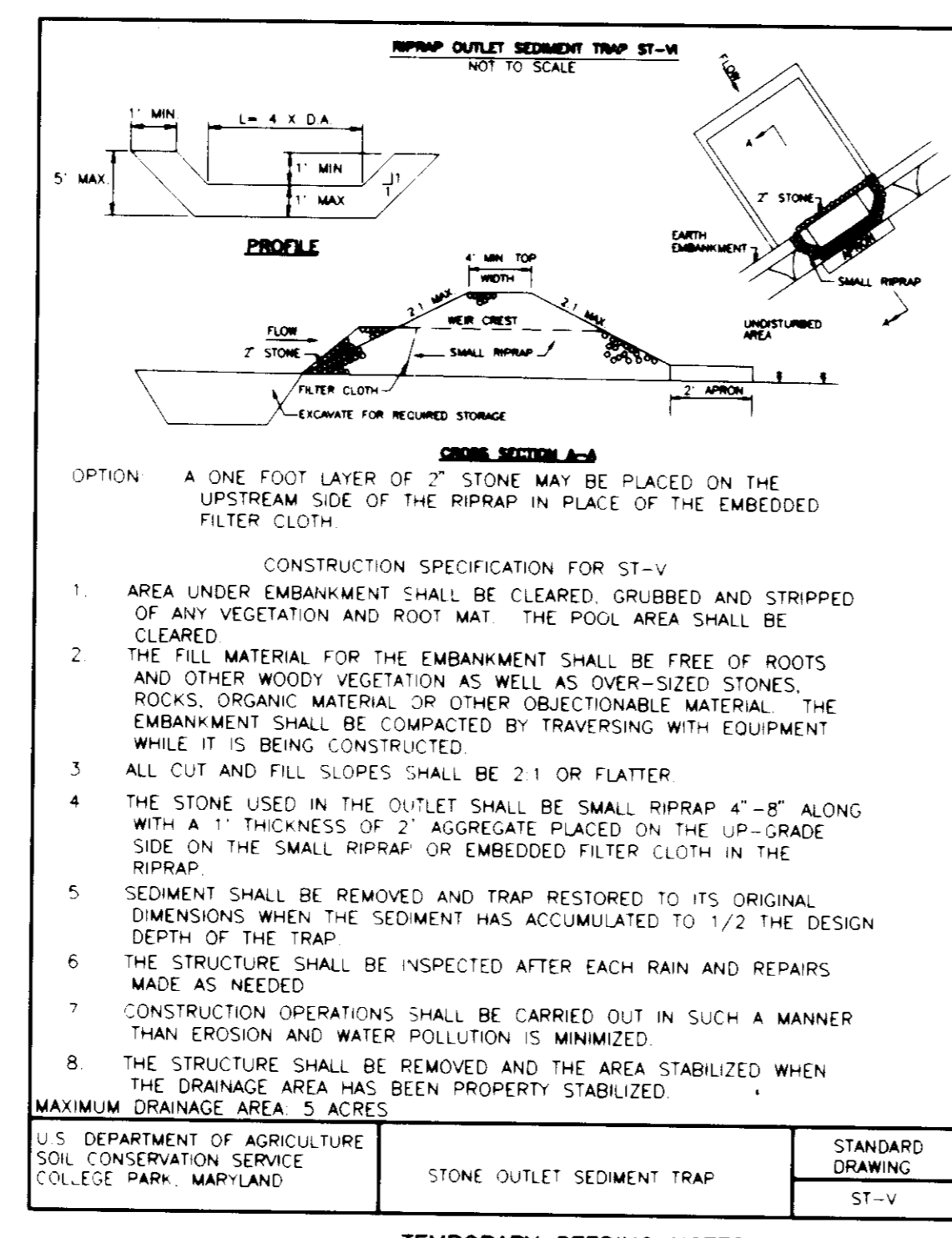
HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

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

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

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

1. 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 DISK INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ. FT.)
2. 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 DISK INTO UPPER THREE INCHES OF SOIL.



CONSTRUCTION SPECIFICATION FOR ST-V

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. 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.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA: 5 ACRES

U.S. DEPARTMENT OF AGRICULTURE	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING
SOIL CONSERVATION SERVICE		ST-V
COLLEGE PARK, MARYLAND		

TEMPORARY SEEDING NOTES

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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

SEEDING -- FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./100 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./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./1000 SQ. FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL 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.

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

SEEDING -- FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1000 SQ. FT.) OF KENTUCKY 3' TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 3' TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 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. OPTION 2 - USE SOD. OPTION 3 - SEED WITH 60 LBS. ACRES KENTUCKY 3' TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING -- APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

CROWN CENTRAL PETROLEUM CORPORATION

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SEDIMENT & EROSION CONTROL, DETAILS & NOTES

GAS STATION PROJECT

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SUBD. WECHSLER PROPERTY ELECTION DISTRICT NO. 6

TAX MAP #48 PARCEL A RECORD PLAT F-92-160

WATER CODE: B02 SEWER CODE: 4250000

HOWARD COUNTY, MARYLAND

engineers project management planners

30 west gude suite 120 rockville maryland 20850

p.o. box 10313 rockville 20849-0313 phone 301 294 6390

SHAK CONSULTANTS, INC.

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David C. Smith
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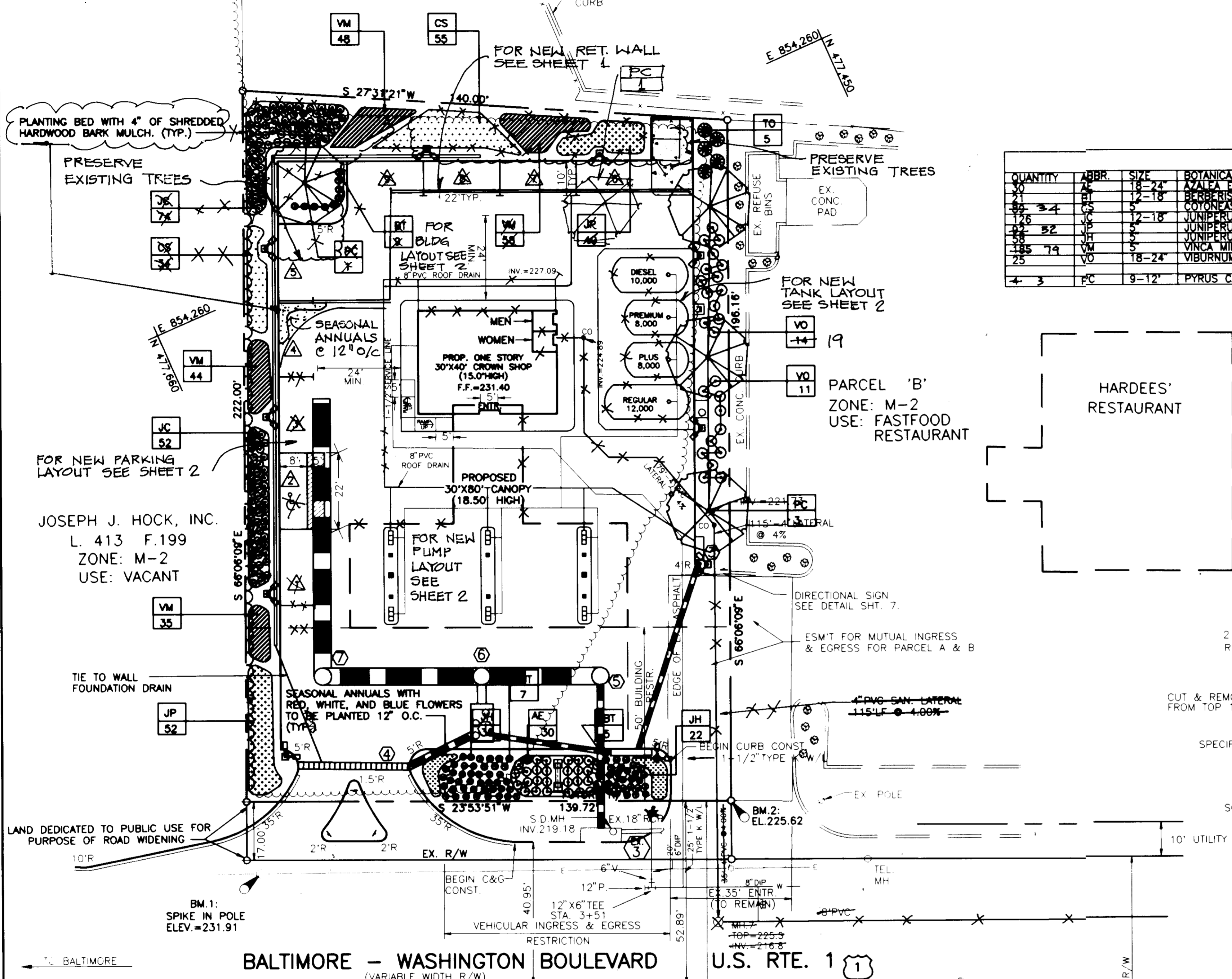
DATE	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
11/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

3/12/92
 3/19/92
 3/19/92
 3/2/92
 2-26-92

11-24-92

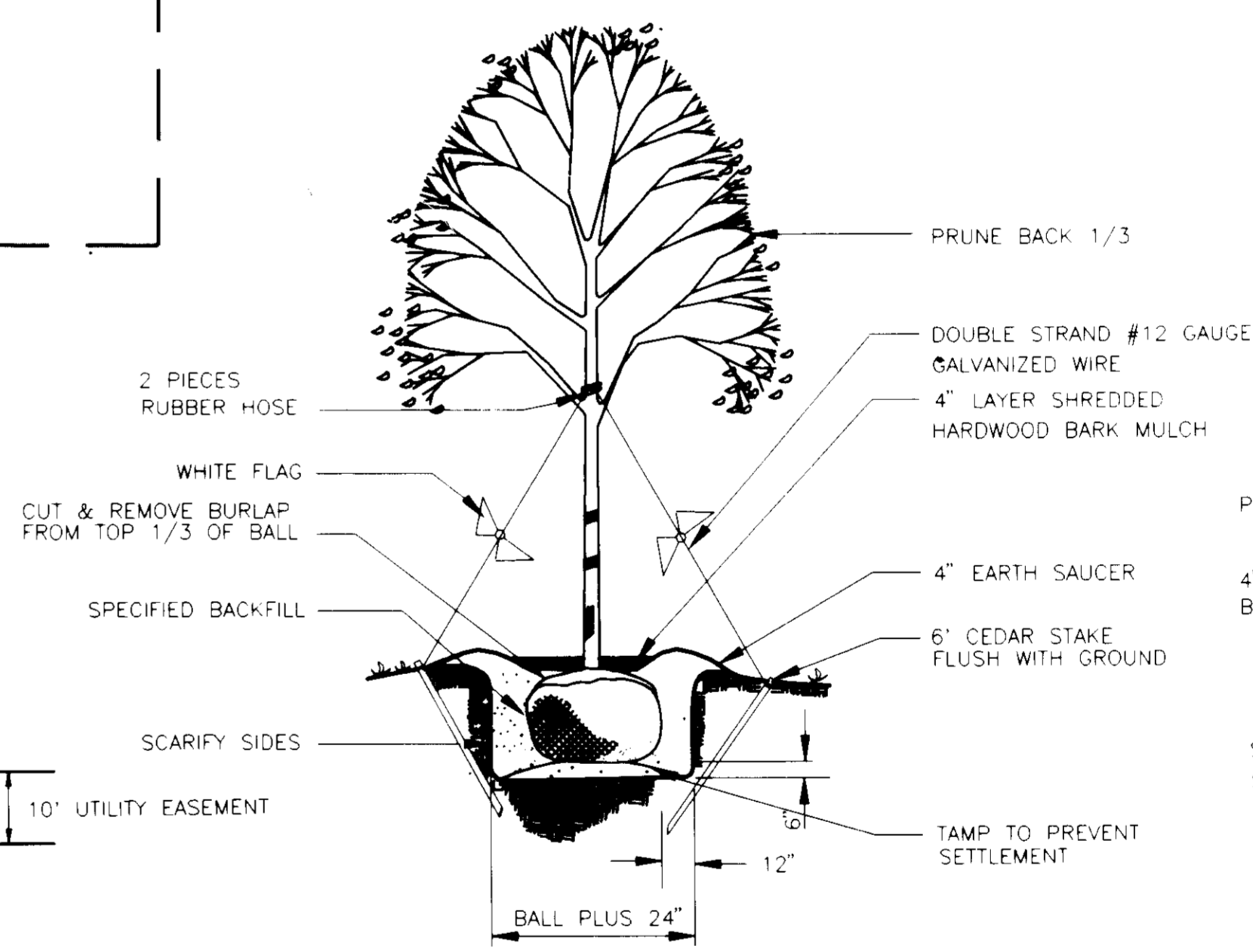
HASLUP PROPERTY
 PARCEL 'A'
 P.N. 5182
 ZONE: M-2
 USE: WAREHOUSE BUILDING



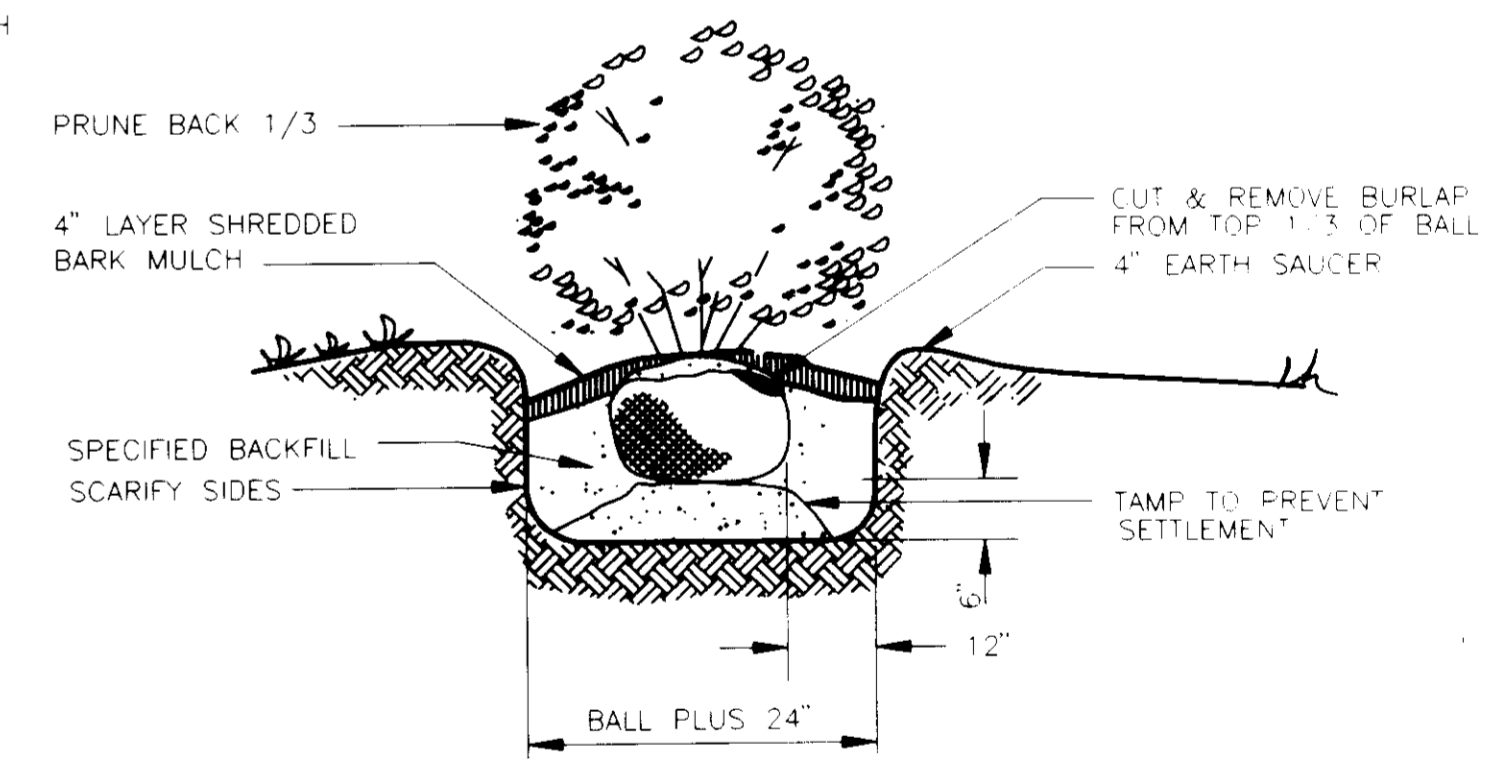
PLANT SCHEDULE						
QUANTITY	ABBR.	SIZE	BOTANICAL NAME	COMMON NAME		
40	AL	18-24"	AZALEA EXBURII POUKHAENSIS	KOREAN AZALEA		
41	BT	12-18"	BERBERIS THUNBERGII ATROPURPUREA CRIMSON PYGMY	CRIMSON PYGMY RED JAPANESE BARBERRY		
88	CS	12-18"	COTONASTER SALICIFOLIA SCARLET LEADER	SCARLET LEADER COTONASTER		
125	JP	12-18"	JUNIPERUS CHINENSIS BENZELIANA COMPACTA	COMPACT BENZEL JUNIPER		
88	JH	5"	JUNIPERUS HORIZONTALIS PLUMOSA	ANDORRA JUNIPER		
185	VM	5"	VINCA MINOR	BLUE TRUG JUNIPER		
25	VO	18-24"	VIBURNUM OPULUS COMPACTA	PRINIWIKI		
4	PC	9-12"	PYRUS CALLERYANA BRADFORD	BRADFORD CALLERY PEAR		

LANDSCAPING NOTES

1. PROVIDE PLANT MATERIAL TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED
2. COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.
3. PLANT DECIDUOUS MATERIALS IN A DORMANT CONDITION IF PLANTED IN EARLY PLANTS SHALL BE SPRAYED WITH AN ANTIDECIDUANT PRIOR TO PLANTING.
4. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH PROTECTIVE COVERING TO PREVENT WIND BURN.
5. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.
6. PROTECT EXISTING UTILITIES, PAVING AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPING OPERATIONS.
7. LOCATE PLANTS AS INDICATED OR AS APPROVED IN THE FIELD AFTER STAKING BY THE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED.
8. PERFORM CLEANING DURING INSTALLATION OF THE WORK AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS, AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM PLANTING OPERATIONS.
9. MULCH SHALL BE APPLIED IMMEDIATELY AFTER COMPLETION OF PLANTING OPERATIONS. MULCH SHALL BE SHREDDED HARDWOOD BARK. LIMITS OF MULCHING SHALL BE THOSE SHOWN ON THE PLANTING PLAN. FOR INDIVIDUAL PLANTS REFER TO THE PLANTING DETAILS.
10. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A FULL YEAR FROM THE DATE OF FINAL INSPECTION.



DETAIL - TREE PLANTING
 NOT TO SCALE



DETAIL - SHRUB PLANTING
 NOT TO SCALE

THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.

CROWN PRODUCERS • REFINERS • MARKETERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS
CROWN CENTRAL PETROLEUM CORPORATION
 GENERAL OFFICES • ONE NORTH CHARLES • P.O. BOX 1180 • BALTIMORE, MARYLAND 21203

PROJECT NO.: 92M-8551
 DISK NO.: 92M-8551-1
 CLNT. NO.:
 AutoCAD FILE NAME: 8551LS.DWG

LANDSCAPE PLAN
 GAS STATION PROJECT
 8755 WASHINGTON BOULEVARD
 ELECTION DISTRICT NO. 6
 TAX MAP #48 PARCEL #82A
 WATER CODE B02 SEWER CODE 4250000
 HOWARD COUNTY, MARYLAND

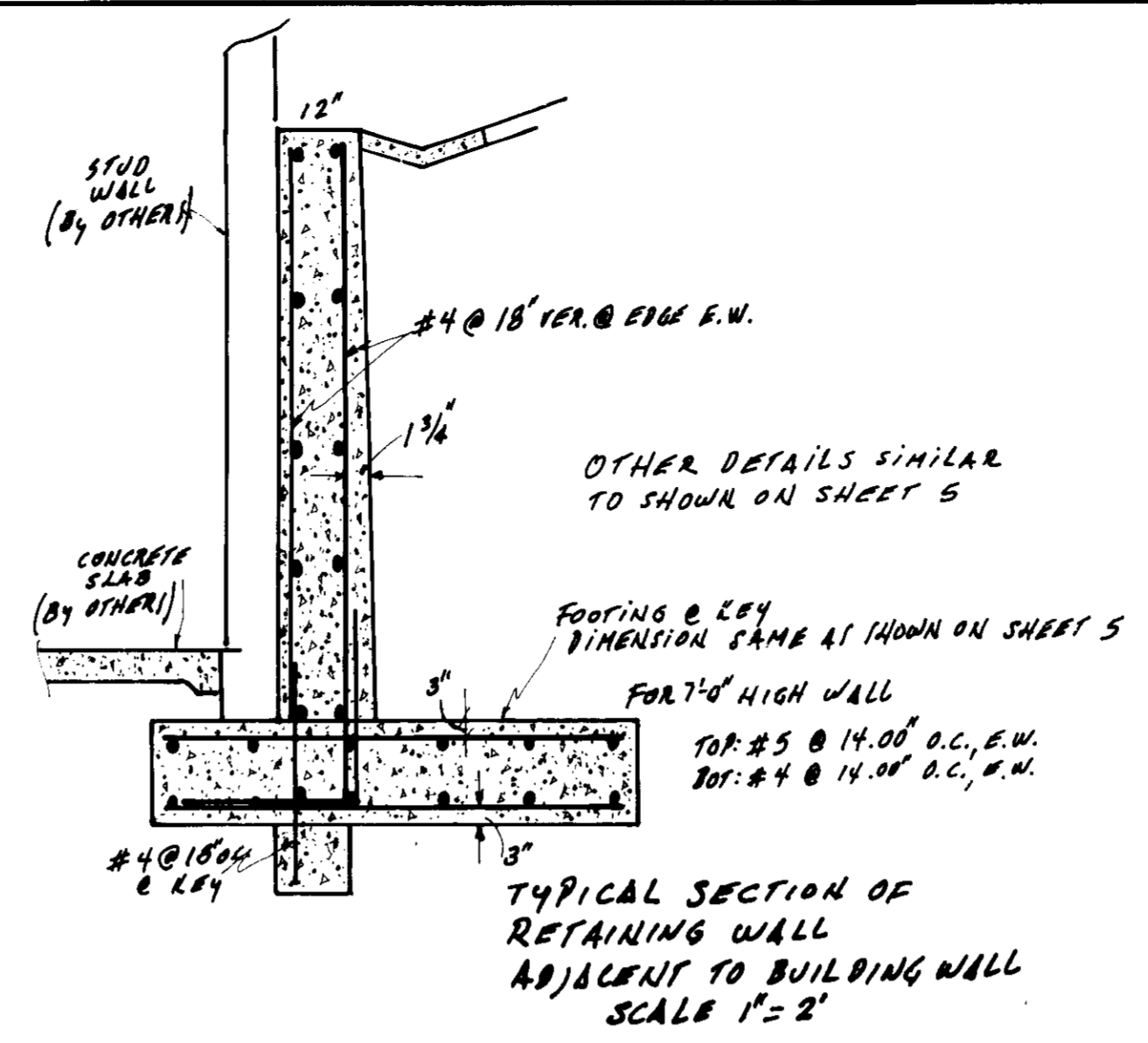
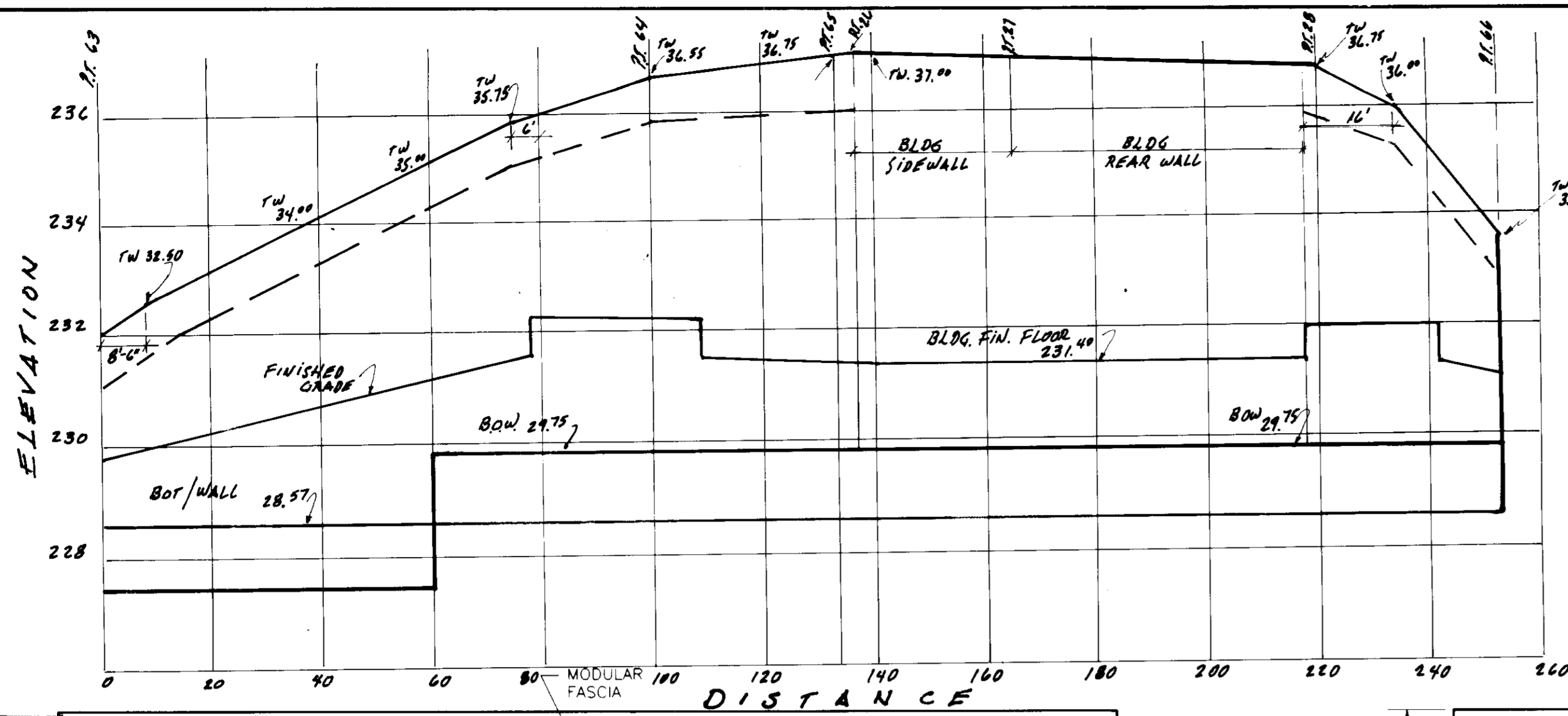
DATE:	REVISIONS	BY	CHK
9/25/92	COUNTY COMMENTS-ADD OPEN SPACE	PAK	DAK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK
1/24/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

engineers project management planners

Sci 30 west gude suite 120 rockville maryland 20850
 p.o. box 10313 rockville 20849-0313 phone 301 294 6390

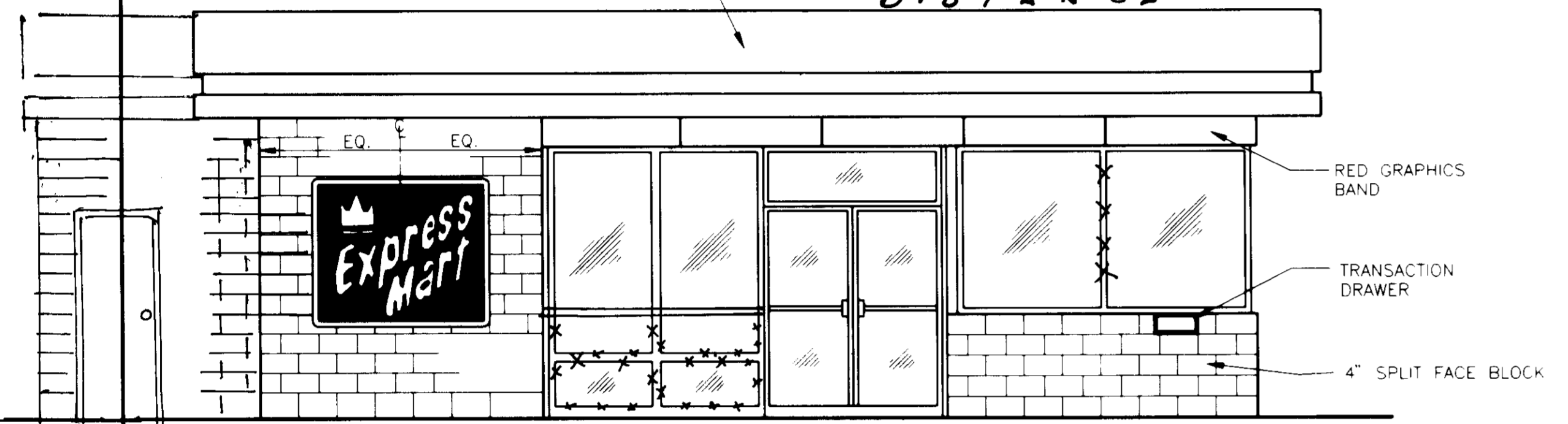
SHAK CONSULTANTS, INC.

Designed P.A.K. D.A.K.
 Date 10-06-92 Scale 1"=20'
 Project No. 92M-8551 Sheet No. 10 OF 11

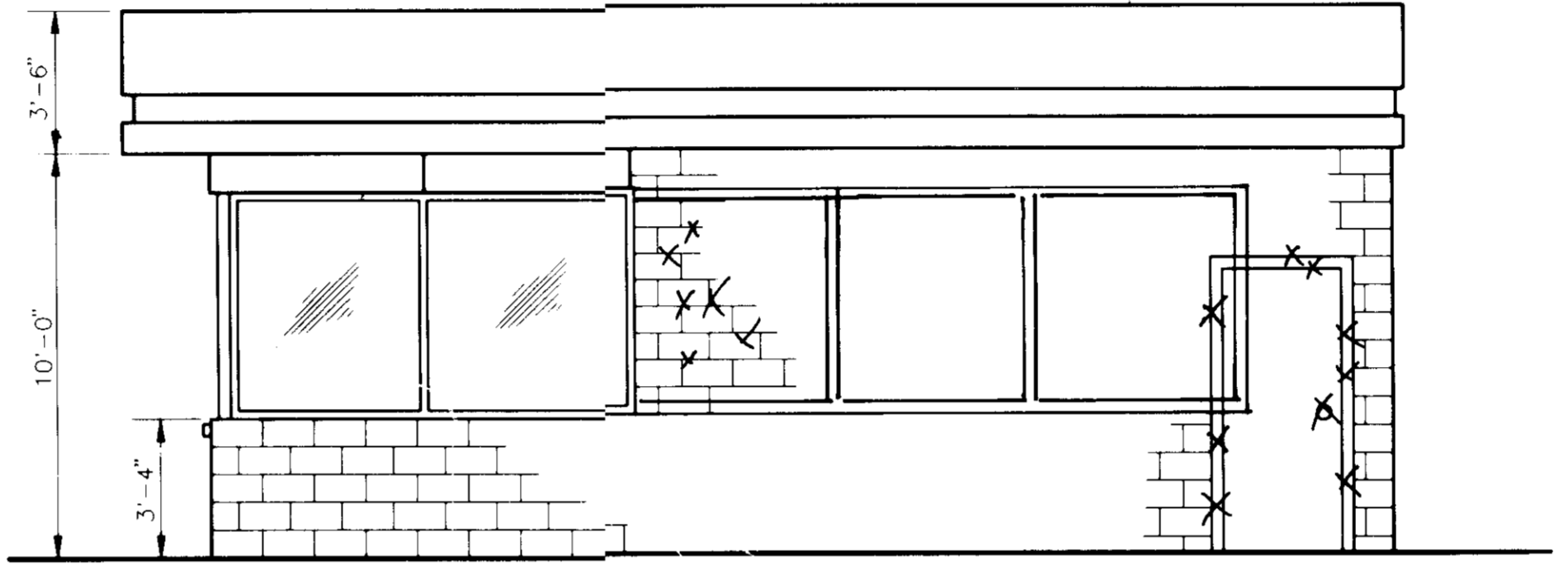


11-24-92

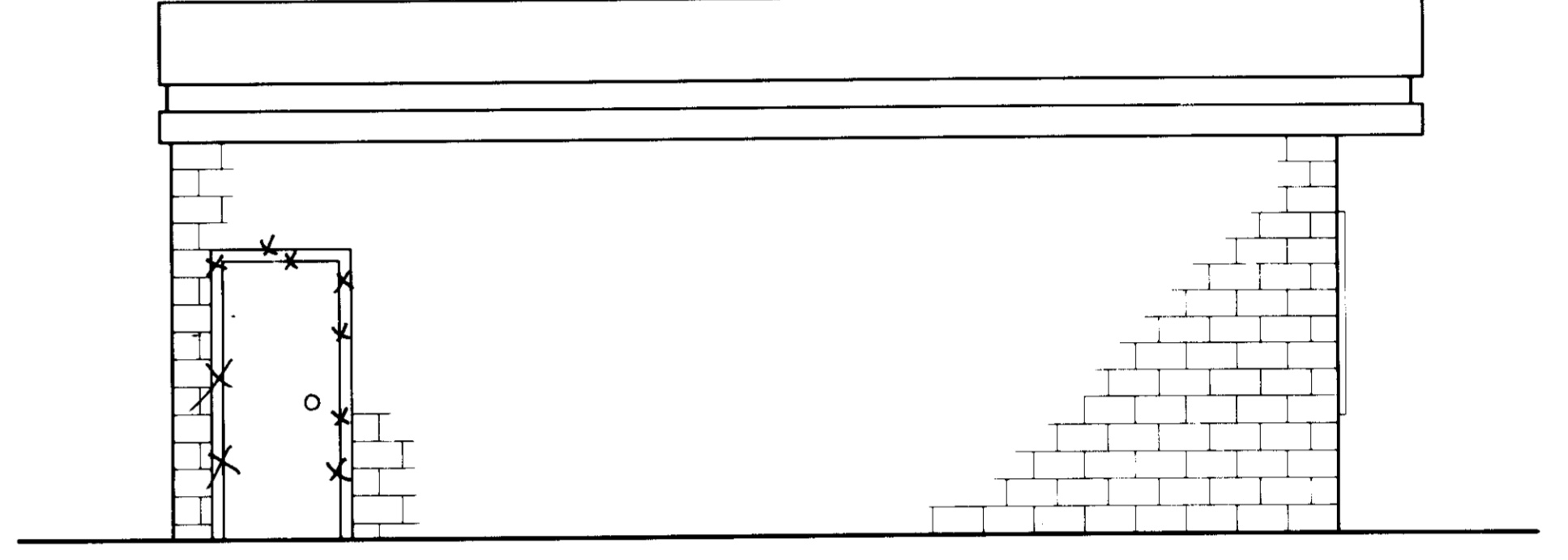
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *James M. Boyd* 3/12/93
 APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR *James S. Kittle* 3/14/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *Shirley J. Horvath* 3/19/93
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *James M. Law* 3/10/93
 CHIEF, BUREAU OF ENGINEERING *William B. Riley* 2-26-93



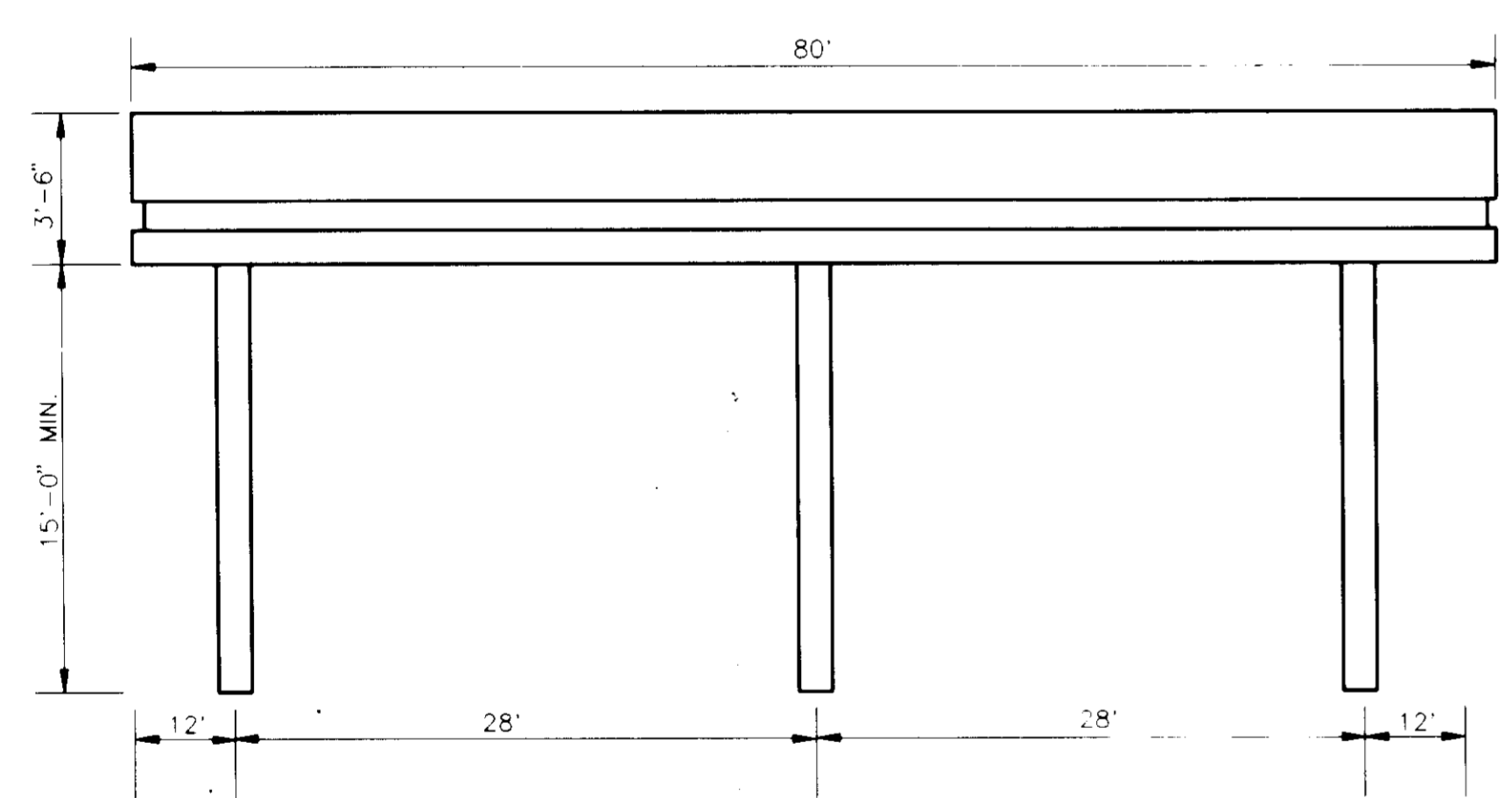
CROWN SHOP
 FRONT ELEVATION
 N.T.S.



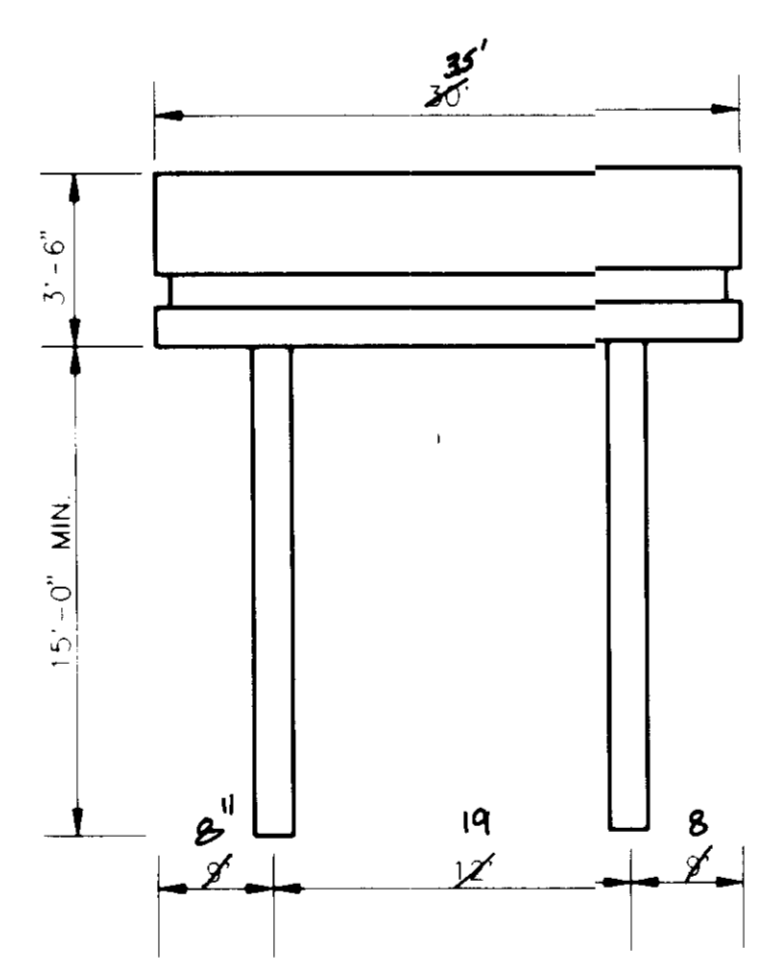
CROWN SHOP
 RIGHT ELEVATION
 N.T.S.



CROWN SHOP
 LEFT ELEVATION
 N.T.S.



CANOPY
 FRONT ELEVATION
 N.T.S.



CANOPY
 SIDE ELEVATION
 N.T.S.

NOTE:
 FOR MORE DETAILS PLEASE SEE ARCHITECTURAL PLANS SUBMITTED SEPARATELY.

David O. Kitch
 11-25-92

DATE:	REVISIONS	BY	CHK
10/7/92	REV. PER SUBDIVISION REVIEW COMMITTEE	HAC	DAK

CROWN CENTRAL PETROLEUM CORPORATION <small>PRODUCERS • REFINERS • WHOLESALEERS OF PETROLEUM PRODUCTS AND PETROCHEMICALS</small> <small>GENERAL OFFICES • ONE NORTH CHARLES • P.O. BOX 1160 • BALTIMORE, MARYLAND 21203</small>		PROJECT NO.: 92M-8551 COUNTY NO.: SDP 93-11 CLNT. NO.: AutoCAD FILE NAME: 8551SSE.DWG
DATE: DRAWN BY: CaV. CHK. BY: SCALE: 1"=20'	STRUCTURAL ELEVATIONS GAS STATION PROJECT 8755 WASHINGTON BOULEVARD <small>SUBD. WECHSLER PROPERTY ELECTION DISTRICT No. 6</small> <small>TAX MAP #48 PARCEL A RECORD PLAT # F-92-160</small> <small>WATER CODE B02 SEWER CODE 4250000</small> HOWARD COUNTY, MARYLAND	engineers project management planners SCI 30 west gude suite 120 rockville maryland 20850 <small>p.o. box 10313 rockville 20849-0313 phone 301 294 6390</small> SHAK CONSULTANTS, INC.
Designed H.A.C. Date 10-06-92 Project No. 92M-8551	Checked D.A.K. Scale 1"=20' Sheet No. 11 OF 11	