

**GENERAL NOTES**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING FREDERICK WARD ASSOC., INC. AT (410)-879-2090 IN THE EVENT OF ANY DISCREPANCIES ON THE PLAN OR IN THE RELATIONSHIP OF EXISTING GRADES WITH PROPOSED GRADES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN A SCALED DIMENSION AND A FIGURED DIMENSION SHOWN ON THE PLANS, THE FIGURED DIMENSION SHALL GOVERN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE FAILURE TO MENTION SPECIFICALLY WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 WORKING DAYS PRIOR TO BEGINNING WORK:
 

MISS UTILITY:	1-800-257-7777
BELL ATLANTIC	1-410-725-9976
HOWARD COUNTY BUREAU OF UTILITIES	1-410-313-2366
AT&T CABLE LOCATION DIVISION	1-410-393-3553
B&E	1-410-685-0123

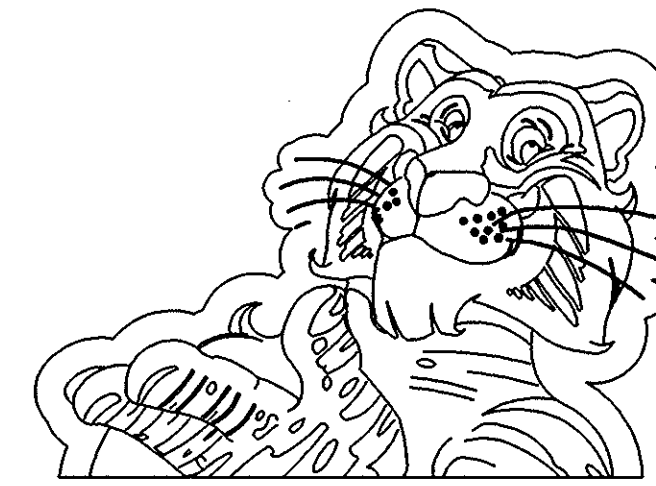
NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (1-410-313-1855) HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410) 313-1880
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS STATED OTHERWISE.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE PURPOSE OF THIS SITE DEVELOPMENT PLAN IS TO CONSTRUCT A GASOLINE STATION, CONVENIENCE STORE, AND CAR WASH.
- STORMWATER QUANTITY MANAGEMENT WILL BE PROVIDED BY AN OFF-SITE FACILITY ON PARCEL A-6 OF LYNWOOD SQUARE. WATER QUALITY WILL BE PROVIDED FOR BY WAY OF A STORMCEPTOR.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL DETERGENT USED IN THE CAR WASH FACILITY SHALL BE "PHOSPHATE FREE" AS PER HOWARD COUNTY REGULATIONS. THE CAR WASH FACILITY SHALL USE A WATER RECLAMATION SYSTEM.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. A 2" WATER METER SHALL BE LOCATED WITHIN THE TIGER MART AND WILL MEET ALL HOWARD COUNTY STANDARDS. THE WATER AND SEWER CONNECTIONS SHALL BE PRIVATELY MAINTAINED.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL SITE LIGHTING MUST BE DIRECTED AWAY FROM THE ADJACENT PUBLIC RIGHT OF WAY AND THE VICINAL RESIDENTIAL PROPERTIES. LIGHTING MUST BE IN COMPLIANCE WITH THE ZONING REGULATIONS, SECTION 134.
- RESTROOMS SHALL BE PROVIDED PER HOWARD COUNTY CODE 12.109.

**SITE ANALYSIS**

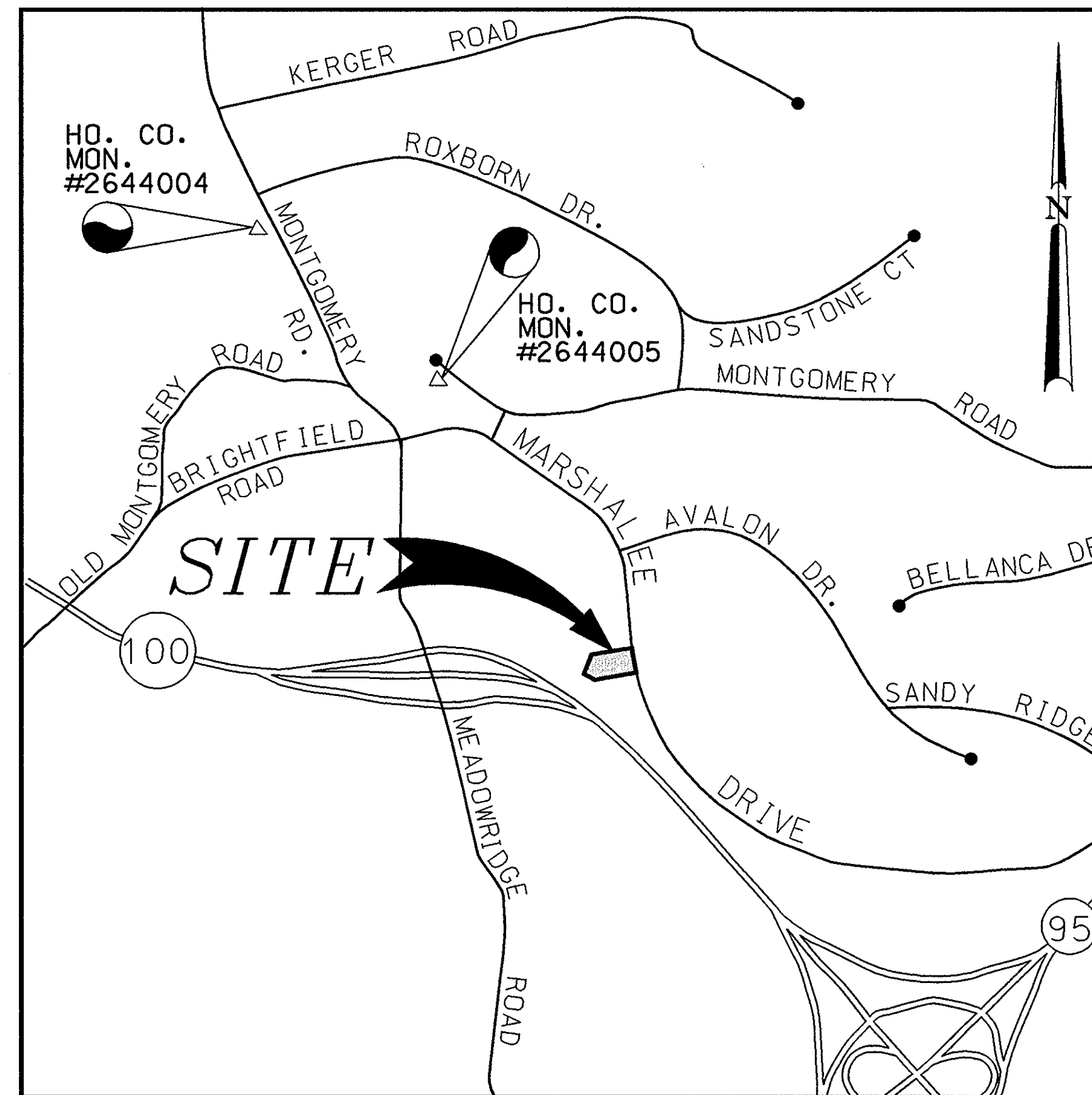
- TOTAL SITE AREA: 79,319 SQ.FT. OR 1.821 AC.
- TOTAL NUMBER OF LOTS: 1
- DEED REFERENCE: 1470/366 & 2041/258
- PRESENT ZONING: PEC DISTRICT (PLANNED EMPLOYMENT CENTER)
- ELECTION DISTRICT: FIRST
- TAX MAP: 37 GRID: 16 PARCEL: 687
- AREA REQUIREMENTS:
 

A. REQUIRED:	20,000 SQ.FT. (GASOLINE SERVICE STATION)
	2,160 SQ.FT. (CONVENIENCE STORE)
	2,600 SQ.FT. (PARKING)
	825 SQ.FT. (CARWASH)
TOTAL REQUIRED:	22,585 SQ.FT.
B. PROVIDED:	79,319 SQ.FT.
- NUMBER OF EMPLOYEES = 3
- PARKING:
 

A. REQUIRED:	CONVENIENCE STORE	= 5 SPACES
	RESTAURANT (CARRY OUT)	= 2 SPACES
	GAS STATION WITH CARWASH	= 4 SPACES
TOTAL REQUIRED:		= 11 SPACES
B. PROVIDED:	12 SPACES (INCLUDING 1 HANDICAP SPACE)	
- LANDSCAPE AREA: REQUIRED: 15,864 SQ.FT. = 20%  
PROPOSED: 48,450 SQ.FT. = 61%
- IMPERVIOUS AREA: PROPOSED: 30,869 SQ.FT. = 39%
- BUILDING USE: CONVENIENCE STORE WITH A FUEL SERVICE STATION AND CAR WASH
- CONVENIENCE STORE COVERAGE: 2,560 SQ.FT.  
CARWASH COVERAGE: 825 SQ.FT.  
CANOPY COVERAGE: 4262 SQ.FT.  
TOTAL: 7647 SQ.FT.
- MIN. FRONTAGE REQUIRED = 120.00 FT.  
FRONTAGE ON MARSHALEE DRIVE = 204.73 FT.
- HEIGHT OF TIGER MART = 14'-4"



6070 MARSHALEE DRIVE  
ELKRIDGE, MARYLAND 21227  
RAS# 2-0352



**VICINITY MAP**

1"=1000'

HOWARD COUNTY ADC MAP  
PAGE NUMBER 16  
GRID NUMBER J7

**BENCHMARK INFORMATION**

- HOWARD COUNTY MONUMENT NO. 2644004: CONCRETE MONUMENT 1.0 FT. BELOW SURFACE S.W. CORNER OF INTERSECTION RTE. 103 AND OLD MONTGOMERY ROAD. ELEV. 402.135
- HOWARD COUNTY MONUMENT NO. 2644005: CONCRETE MONUMENT 2.0 FT. BELOW SURFACE SOUTH SIDE MONTGOMERY ROAD EAST OF MEADOWRIDGE ROAD. ELEV. 416.931

**SHEET INDEX**

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY AND PIPING PLAN
6	SEDIMENT AND EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL NOTES & DETAILS
8	STORMCEPTOR NOTES, DETAILS, AND STORM DRAIN PROFILE
9	SITE DETAILS
10	BUILDING AND SIGNAGE PLAN
11	LANDSCAPE PLAN
12	DRAINAGE AREA MAP

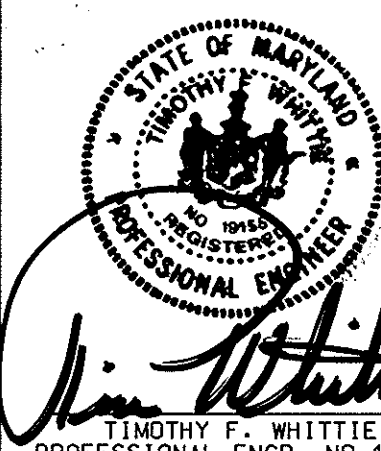
**ZONING HISTORY**

- CASE NO. ZEB 877M (CENTRE 9500)  
PETITIONER: 100 INVESTMENT LIMITED PARTNERSHIP  
REQUEST: RECLASSIFY 160 ACRES FROM R-20 TO PEC, 185.6 ACRES FROM R-20 TO R-SC, 6 ACRES FROM R-20 TO B-2, AND 21.6 ACRES FROM R-SC TO PEC  
ACTION: GRANTED MAY 3, 1990 SUBJECT TO A GOLF COURSE TO BE BUILT.
- CASE NO. BA 97-12E  
PETITIONER: EXXON CORPORATION  
REQUEST: CONSTRUCT NEW GASOLINE SERVICE STATION WITH CONVENIENCE STORE, CARRY-OUT RESTAURANT, AND CAR WASH.  
ACTION: GRANTED MAY 28, 1997
- REFERENCE FILES:  
ZB 877 R&M, WP 91-33, F-91-125, RES 188, S-93-02, PB 284  
P93-11, SDP 93-105, F-94-29, F-94-95, WP 93-86, F-96-115, SDP 96-92, SDP 96-100, WP 96-87, F-97-95.

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION
		CHIEF-DIVISION OF LAND DEVELOPMENT
		DIRECTOR
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
		COUNTY HEALTH OFFICER
		OWNER
		EXXON PIPELINE COMPANY
		DEVELOPER
		EXXON CORPORATION

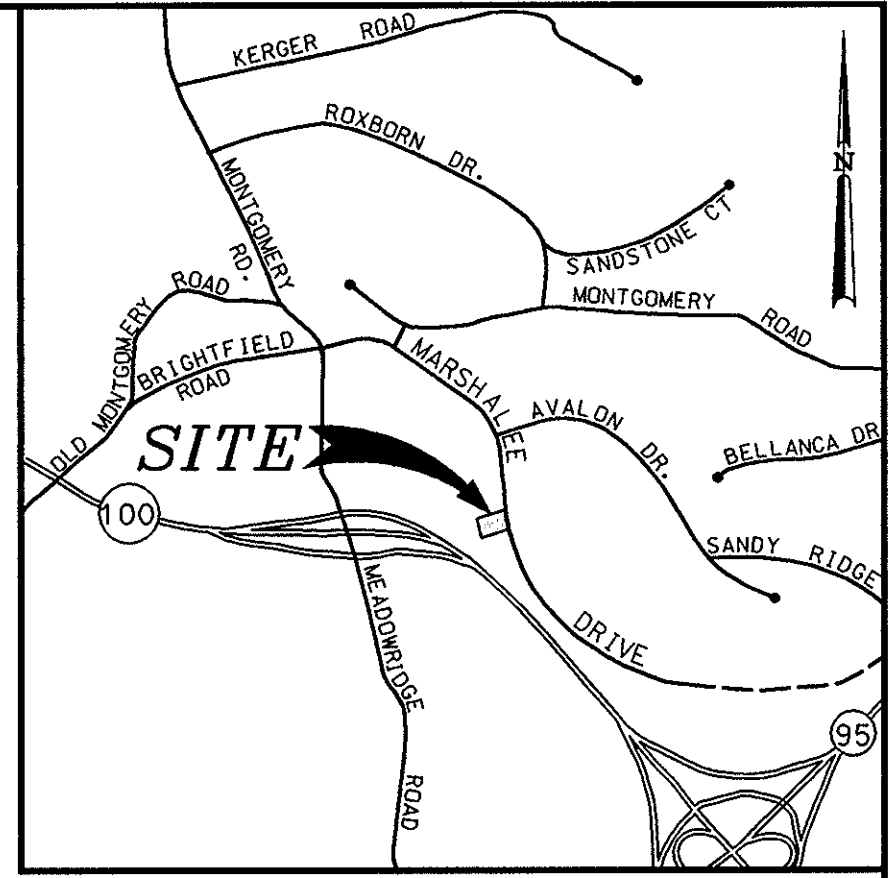
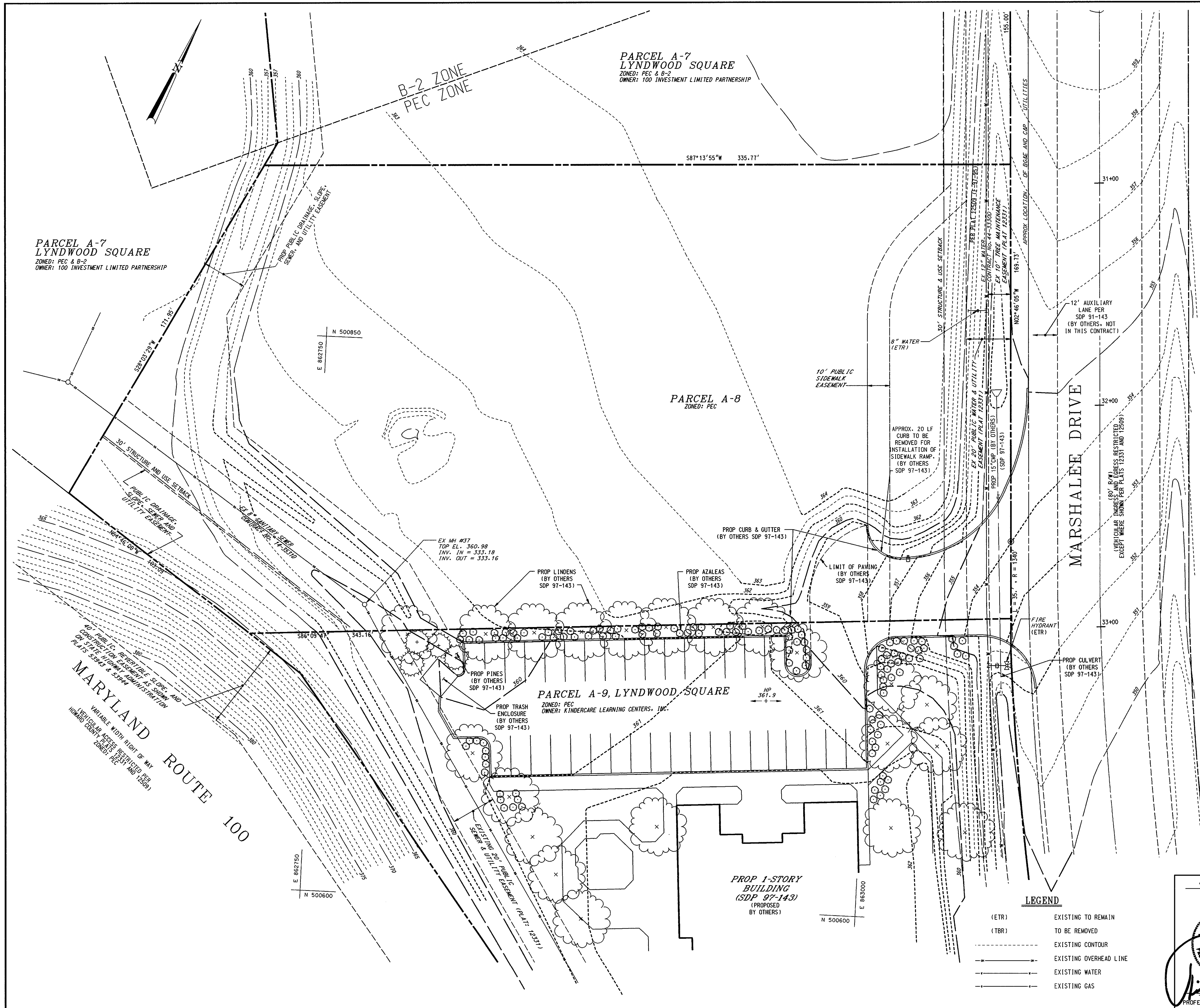
SDP# 98-16

4/17/98  
DATE



ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
A-8	6070 MARSHALEE DRIVE, ELKRIDGE
SUBDIVISION NAME	SECT./AREA
LYNWOOD SQUARE	N/A
PLAT NO.	BLOCK NO.
12509	N/A
WATER CODE	SEWER CODE
D04	2610400

COVER SHEET	
FOR AN EXXON STATION AT	
PARCEL A-8, LYNWOOD SQUARE	
6070 MARSHALEE DRIVE, ELKRIDGE, MD. 21227	
FIRST ELECTION DISTRICT	HOWARD COUNTY, MD.
TAX MAP 37, GRID 16, P. 687	CENSUS TRACT NO.: 6011
WATER CODE D04	SEWER CODE 2610400
DESIGN BY: JBG	SCALE: 1"= 20'
DRAWN BY: LCF	DATE: 03/30/98
CHECKED BY: JBG	APPROVED:
	RAS NO.: 2-0352
	DRAWING NUMBER
	01 OF 12



VICINITY MAP  
1"=200'

GENERAL NOTES

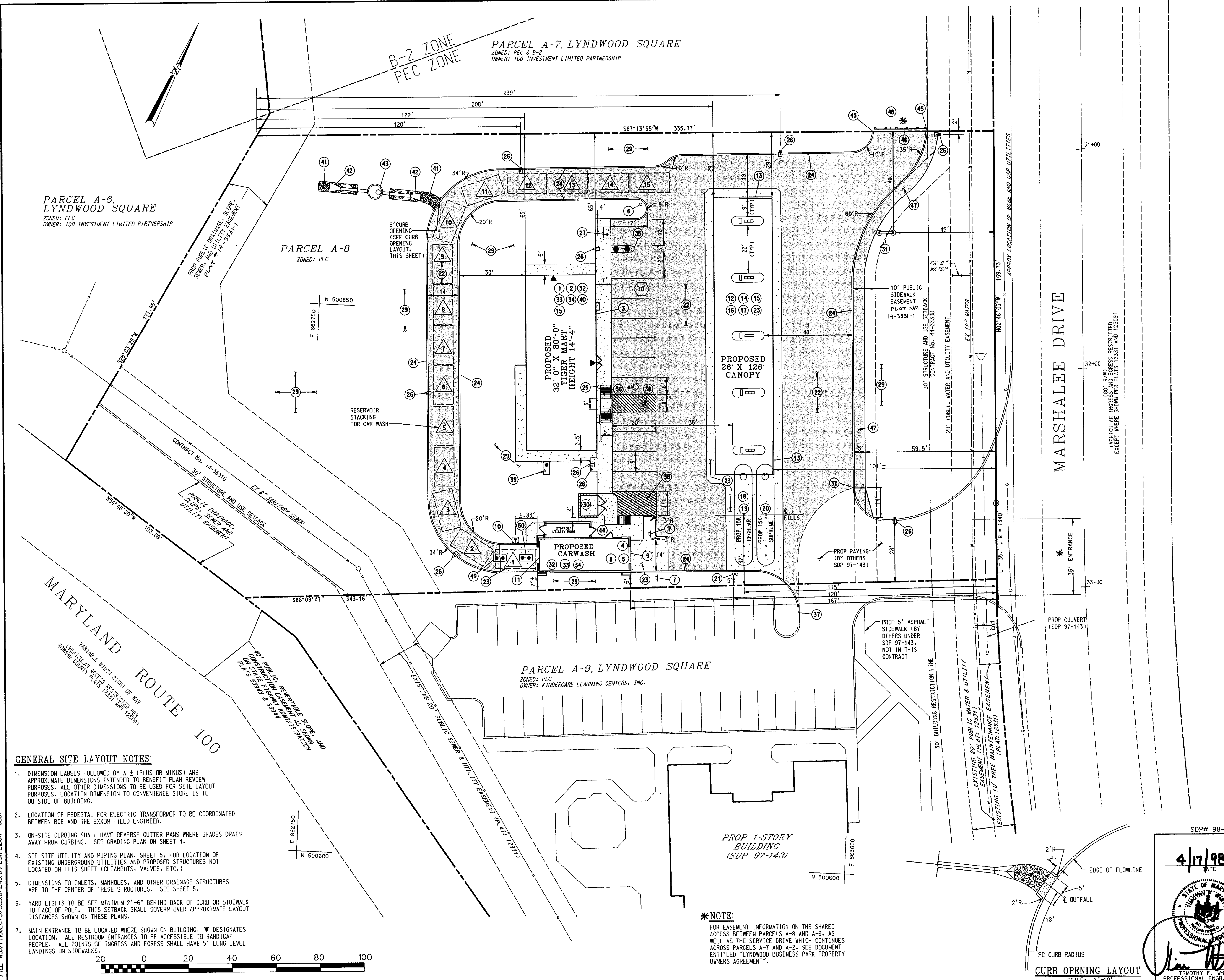
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND VERIFY EXISTING SITE CONDITIONS TO HIS SATISFACTION.
2. CONTRACTOR TO MEET WITH EXXON FIELD ENGINEER ON JOB SITE TO IDENTIFY ANY ITEMS TO BE REMOVED OR RETAINED PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY O.S.H.A., EXXON, AND HOWARD COUNTY.
4. REFER TO DRAWING SHEET 6 AND 7 FOR SEDIMENT CONTROL DEVICES REQUIRED TO BE IN PLACE PRIOR TO DEMOLITION WORK.
5. ALL UTILITIES AND STRUCTURES WITHIN PUBLIC RIGHTS-OF-WAY SHALL REMAIN UNLESS OTHERWISE NOTED.
6. ANY UTILITIES DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE. UTILITY REMOVAL AND/OR RELOCATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
7. REFER TO DRAWING SHEET 5 FOR GENERAL NOTES PERTAINING TO UTILITIES.

NOTE:  
FOR EASEMENT INFORMATION ON THE SHARED ACCESS BETWEEN PARCELS A-8 AND A-9, AS WELL AS THE SERVICE DRIVE WHICH CONTIGUES ACROSS PARCELS A-7 AND A-2, SEE DOCUMENT ENTITLED "LYNDWOOD BUSINESS PARK PROPERTY OWNERS AGREEMENT".

DATE:	NUMBER	REVISION DESCRIPTION
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
<i>John D. ...</i>		5/10/98 DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION		6/11/98 DATE
<i>Conrad Hamilton</i>		6/11/98 DATE
CHIEF-DIVISION OF LAND DEVELOPMENT		6/12/98 DATE
<i>David S. ...</i>		6/12/98 DATE
DIRECTOR		
APPROVED:	FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS	
	HOWARD COUNTY HEALTH DEPARTMENT.	
<i>George M. ...</i>		5/15/98 DATE
COUNTY HEALTH OFFICER		
OWNER	EXXON PIPELINE COMPANY 800 BELL STREET HOUSTON, TEXAS 77002	
DEVELOPER	EXXON CORPORATION 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. ROBERT CASERTA PHONE: (301)-513-7511	
DATE	4/1/98	SDP# 98-16
DATE	4/1/98	
<p><b>FREDERICK WARD ASSOCIATES, INC.</b> ENGINEERS • ARCHITECTS • SURVEYORS P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014 PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243 FWA JOB NUMBER 98316 FWA DRAWING FILE NAME PEDENOLOGN</p>		
<p><b>EXISTING CONDITIONS AND DEMOLITION PLAN</b> FOR AN EXXON STATION AT PARCEL A-8, LYNDWOOD SQUARE 6070 MARSHALEE DRIVE, ELKBRIDGE, MD. 21227</p>		
FIRST ELECTION DISTRICT	TAX MAP 37, GRID 16, P. 687	HOWARD COUNTY, MD. CENSUS TRACT NO.: 6011 SEWER CODE 2610400
DESIGN BY: JBG	SCALE: 1"=20'	RAS NO.: 2-0352
DRAWN BY: JJ	DATE: 03/30/98	DRAWING NUMBER
CHECKED BY: JBG	APPROVED:	02 OF 12

**LEGEND**

(ETR)	EXISTING TO REMAIN
(TBR)	TO BE REMOVED
---	EXISTING CONTOUR
---	EXISTING OVERHEAD LINE
---	EXISTING WATER
---	EXISTING GAS



**GENERAL NOTES**

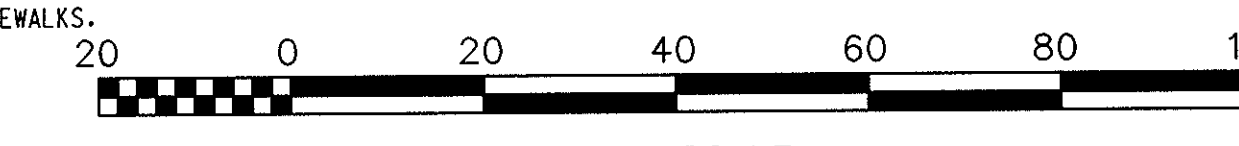
- C.S. - CANOPY SUPPLIER
- F.S. - FASCIA SUPPLIER
- D. - DEALER
- G.C. - GENERAL CONTRACTOR
- E. - EXCON
- O. - OTHER
- IMPROVEMENT ITEM
- NEW CONCRETE (ON PLAN)
- EXISTING TO REMAIN
- INDICATES TRAFFIC FLOW ONLY. DOES NOT REFLECT PAINTED TRAFFIC CONTROLS.

1. ALL UTILITY CONNECTIONS ARE TO BE AS PER LOCAL CODE BY G.C.  
 2. G.C. TO PROVIDE CONDUIT & WIRING TO ALL EXCON I.D. SIGNS & CONDUIT ONLY TO PUBLIC TELEPHONE BOOTH.  
 3. SITE PLAN SUPERSEDES ALL WORKING DRAWINGS.  
 4. UNLESS OTHERWISE NOTED, ALL PAINT TO BE FURNISHED BY G.C.  
 5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND CONSTRUCTION AS SHOWN ON PLANS UNLESS OTHERWISE NOTED.

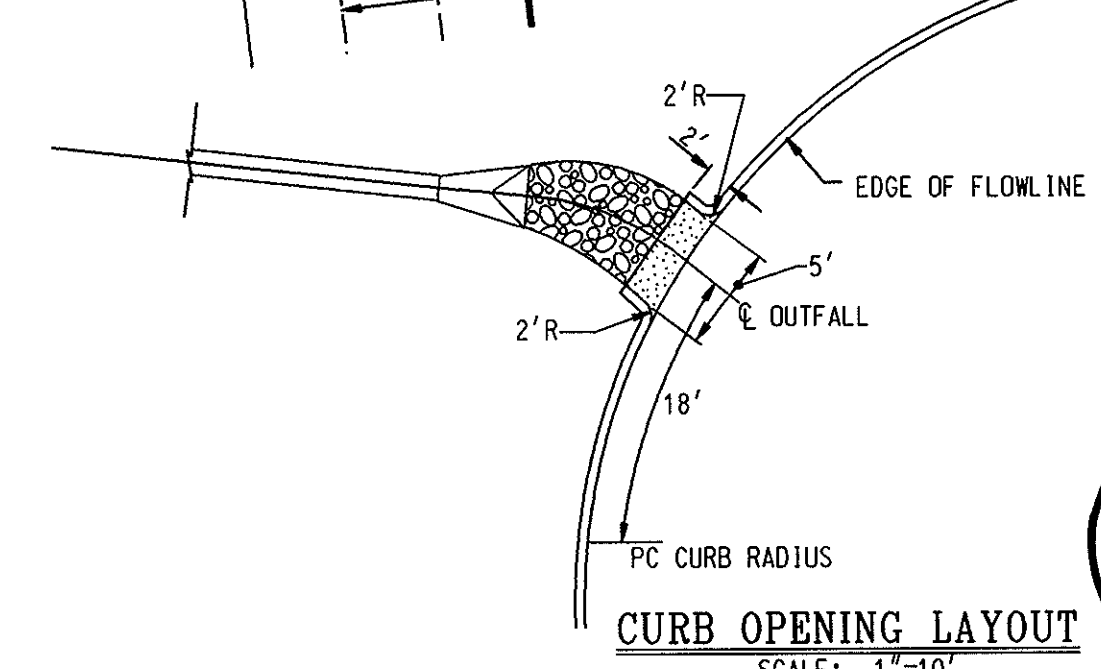
ITEM NUMBER	DESCRIPTION	DRAWING NUMBER
1	GC BUILDING TYPE (32'-0" X 80'-0") TIGER MART W/3 PHASE ELECTRIC 120/208	ARCH. DWG.
2	GC BUILDING SIGNS	METAL
3	GC BUILDING DOWNSPROUTS DRAIN (U) UNDERGROUND (A) ABOVE GROUND	SHT 11
4	GC CAR WASH 90 SERIES W/3 PHASE ELECTRIC 120/208 STUCCO	ARCH. DWG.
5	D/DC CAR WASH EQUIPMENT W/ RECLAIM (R) / W/O RECLAIM (O)	
6	E GC CAR WASH ENTER SIGN	
7	E GC "DO NOT ENTER" SIGN (T)	SHT 11
8	E GC SIGNS (SEE ARCHITECTURAL DRAWING FOR LOCATION)	
9	E GC CAR WASH BUILDING SIGN EXIT	
10	E GC SIGN BOX FOR CAR WASH "LASERLINK"	ARCH. DWG.
11	E GC CARWASH "WASH" BUILDING SIGN	SHT 11
12	CS PROP CANOPY 26' X 126' (1)	MADISON
13	E FS CANOPY FASCIA SIGNS (2)	MADISON
14	E GC DISPENSING EQUIPMENT (S) M/F ADVANTAGE W/CRIND	
15	E GC G-SITE SYSTEM (2 REQUIRED)	
16	E GC NO COLUMN SPREADERS	
17	GC CANOPY DOWNSPROUT DRAIN UNDERGROUND (U) ABOVE GROUND	
18	E GC PROPOSED TANKS FOR MOTOR FUELS (1) 1115 K) REGULAR (2) 1115 K) SUPREME	7006 G, 1-5
19	E GC SFP W/LEAK DETECTORS (2) 1 1/2" IP	
20	GC ENVIROFLEX PRODUCT PIPING	7006 G
21	GC VAPOR RECOVERY SYSTEM (STAGE 1 AND II)	
22	GC VENT PIPES	7006 G
23	GC ON-SITE ASPHALT PAVING PER HOWARD COUNTY SPECIFICATIONS AND PER EXCON ENGINEER	SHT 4
24	GC 6" CONCRETE W/8 REBAR 18" O.C. EACH WAY	1090 1-4
25	GC INSTALL (1) HANDICAPPED PARKING ONLY SIGN PER ADA & LOCAL CODE	SHT 4
26	E GC (8) NEW YARD LIGHTS, FIXTURES & POLES	SHT 4
27	E/DC GC AIR/WATER WITH INFORMATION SIGN (NO LIGHT)	1090, 1 & 2
28	E/DC GC 3" X 6" REINFORCED CONCRETE W/ CONDUIT FOR PUBLIC TELEPHONES	1090 1-4
29	GC LANDSCAPE / IRRIGATION	1090, 1 & 2
30	GC TRASH ENCLOSURE ON 6" REINFORCED CONCRETE SLAB.	1090 1 & 2
31	E GC MAJOR I.D. SIGN (PROPOSED)	
32	GC BUILDING SAN. SEWER SERVICE TIE INTO EXISTING SAN. SEWER MANHOLE PER EXCON'S FIELD ENGINEER & PER HO. CO. DPW CODES.	
33	GC BUILDING 2" WATER SUPPLY PER EXCON'S FIELD ENGINEER & PER HO. CO. DPW CODES.	
34	GC BUILDING ELECTRICAL & TELEPHONE SERVICE ROUTE UNDERGROUND PER EXCON'S FIELD ENGINEER & PER HO. CO. DPW CODES.	SHT 5
35	GC VACUUMS (2) TRASH RECEPTACLES (1)	ARCH. DWG.
36	GC HANDICAP RAMP PER COUNTY CODES.	SHT 8
37	GC MATCH EXISTING CURB AND GUTTER FOR GRADE AND LOCATION	
38	GC PAINT STRIPING	
39	GC 500 GALLON GREASE TRAP	PLBG DWGS
40	GC 2" METER I.A.W. HO. CO. STDS	HD. CO. STD. W3-30
41	GC RIP-RAP CHANNEL PROTECTION	SHT 9
42	GC 15" CONCRETE END SECTION	HD. CO. STD 30-5-51
43	GC STORMCEPTOR STC 900	SHT 8
44	GC CONCRETE WALKS BY CARWASH	ARCH. DWG.
45	GC END CURB AND GUTTER	
46	GC END PAVING	
47	GC 5' ASPHALT SIDEWALK, W/ RAMP PER HO. CO. STD. R-4.01	SHT 9
48	GC GUARDRAIL (HEAD END BARRICADE TYPE C)	HD. CO. STD R-7.12
49	GC RECLAIM TANK	CW DWGS.
50	GC MUD AND GREASE TRAP	CW DWGS.

**GENERAL SITE LAYOUT NOTES:**

- DIMENSION LABELS FOLLOWED BY A ± (PLUS OR MINUS) ARE APPROXIMATE DIMENSIONS INTENDED TO BENEFIT PLAN REVIEW PURPOSES. ALL OTHER DIMENSIONS TO BE USED FOR SITE LAYOUT PURPOSES. LOCATION DIMENSION TO CONVENIENCE STORE IS TO OUTSIDE OF BUILDING.
- LOCATION OF PEDESTAL FOR ELECTRIC TRANSFORMER TO BE COORDINATED BETWEEN BOE AND THE EXCON FIELD ENGINEER.
- ON-SITE CURBING SHALL HAVE REVERSE GUTTER PANS WHERE GRADES DRAIN AWAY FROM CURBING. SEE GRADING PLAN ON SHEET 4.
- SEE SITE UTILITY AND PIPING PLAN, SHEET 5, FOR LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROPOSED STRUCTURES NOT LOCATED ON THIS SHEET (CLEANOUTS, VALVES, ETC.)
- DIMENSIONS TO INLETS, MANHOLES, AND OTHER DRAINAGE STRUCTURES ARE TO THE CENTER OF THESE STRUCTURES. SEE SHEET 5.
- YARD LIGHTS TO BE SET MINIMUM 2'-6" BEHIND BACK OF CURB OR SIDEWALK TO FACE OF POLE. THIS SETBACK SHALL GOVERN OVER APPROXIMATE LAYOUT DISTANCES SHOWN ON THESE PLANS.
- MAIN ENTRANCE TO BE LOCATED WHERE SHOWN ON BUILDING. ▼ DESIGNATES LOCATION. ALL RESTROOM ENTRANCES TO BE ACCESSIBLE TO HANDICAP PEOPLE. ALL POINTS OF INGRESS AND EGRESS SHALL HAVE 5' LONG LEVEL LANDINGS ON SIDEWALKS.



**\*NOTE:**  
 FOR EASEMENT INFORMATION ON THE SHARED ACCESS BETWEEN PARCELS A-8 AND A-9, AS WELL AS THE SERVICE DRIVE WHICH CONTINUES ACROSS PARCELS A-7 AND A-2, SEE DOCUMENT ENTITLED "LYNDWOOD BUSINESS PARK PROPERTY OWNERS AGREEMENT".



DATE	NUMBER	REVISION DESCRIPTION
5/10/98		DATE
6/10/98		DATE
6/10/98		DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF-DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 5/10/98

CHIEF-DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 6/10/98

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS: *[Signature]* DATE: 5/15/98

**OWNER:** EXCON PIPELINE COMPANY  
 800 BELL STREET  
 HOUSTON, TEXAS 77002

**DEVELOPER:** EXCON CORPORATION  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. ROBERT CASERTA  
 PHONE: (301)-513-7511

SDP# 98-16

4/17/98

**FREDERICK WARD ASSOCIATES, INC.**  
 ENGINEERS • ARCHITECTS • SURVEYORS

P.O. BOX 721, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
 PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 833-1243  
 FWA JOB NUMBER 98336 FWA DRAWING FILE NAME PESTICE01

**SITE LAYOUT PLAN**  
 FOR AN EXCON STATION AT  
**PARCEL A-8, LYNDWOOD SQUARE**  
 6070 MARSHALEE DRIVE, ELK RIDGE, MD. 21227

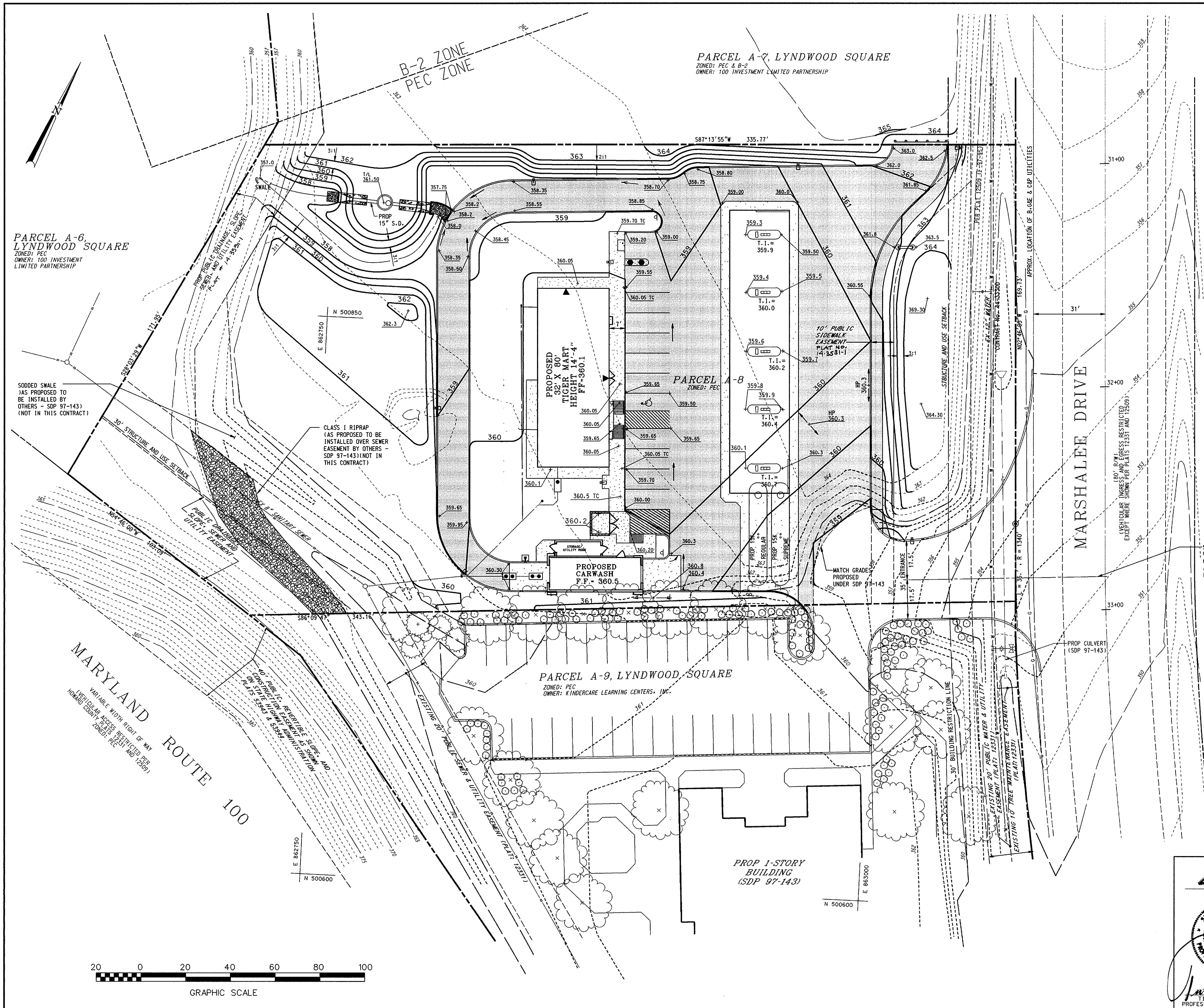
FIRST ELECTION DISTRICT: TAX MAP 37, GRID 16, P. 687  
 WATER CODE D04  
 SEWER CODE 2610400

HOWARD COUNTY, MD. CENSUS TRACT NO.: 6011  
 SEWER CODE 2610400

DESIGN BY: JBC SCALE: 1"=20' RAS NO.: 2-0352  
 DRAWN BY: KN/AJ/LF DATE: 03/30/98 DRAWING NUMBER  
 CHECKED BY: JBC APPROVED: [Signature] PROFESSIONAL ENGR. NO. 19155

03 OF 12

05 12 00 8863 31 31 407



- GRADING NOTES:**
- TOTAL SITE AREA: 1.821 Ac.
  - TOTAL DISTURBED AREA: 1.47 Ac.
  - REFER TO SEDIMENT AND EROSION CONTROL PLAN ON SHEET 6 OF 12 FOR SITE ANALYSIS OF EARTHWORK QUANTITIES.
  - FILL MATERIAL SHALL BE COMPACTED AT 95% TO MEET AASHTO T-180 SPECIFICATIONS. REFER TO EXXON STANDARD DRAWINGS 1090 AND GEOTECHNICAL ENGINEER FOR COMPACTION REQUIREMENTS UNDER IMPERVIOUS AREAS AND BUILDING SLABS AND FOUNDATIONS.
  - BENCHMARK: SEE COVER SHEET
  - REFER TO STRUCTURE SCHEDULE ON SITE UTILITY AND PIPING PLAN SHEET 5 FOR TOP LID, TOP OF CLEANOUT, AND GRATE ELEVATIONS.

- LEGEND**
- 260 --- EXISTING CONTOUR
  - 263 --- PROPOSED CONTOUR
  - + EX 232.95 EXISTING SPOT ELEVATION
  - 232.30 --- PROPOSED SPOT ELEVATION
  - >--- PROPOSED FLOW ARROWS

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION 5/8/98 DATE
		CHIEF-DIVISION OF LAND DEVELOPMENT 6/11/98 DATE
		DIRECTOR 6/12/98 DATE
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
		COUNTY HEALTH OFFICER 5/15/98 DATE

**OWNER**  
**EXXON PIPELINE COMPANY**  
 800 BELL STREET  
 HOUSTON, TEXAS 77002

**DEVELOPER**  
**EXXON CORPORATION**  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. ROBERT CASERTA  
 PHONE: (301)-513-7511

SDP# 98-16

4/17/98  
 DATE

TIMOTHY F. WHITTLE  
 PROFESSIONAL ENGR. NO. 19155

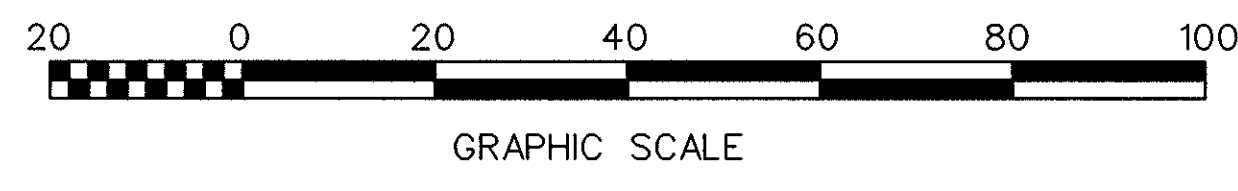
**FREDERICK WARD ASSOCIATES, INC.**  
 ENGINEERS • ARCHITECTS • SURVEYORS

P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
 PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243  
 FWA JOB NUMBER 98336 FWA DRAWING FILE NAME PEGRAD.DGN

**SITE GRADING PLAN**  
 FOR AN EXXON STATION AT  
**PARCEL A-8, LYNDWOOD SQUARE**  
 6070 MARSHALEE DRIVE, ELKRIDGE, MD. 21227

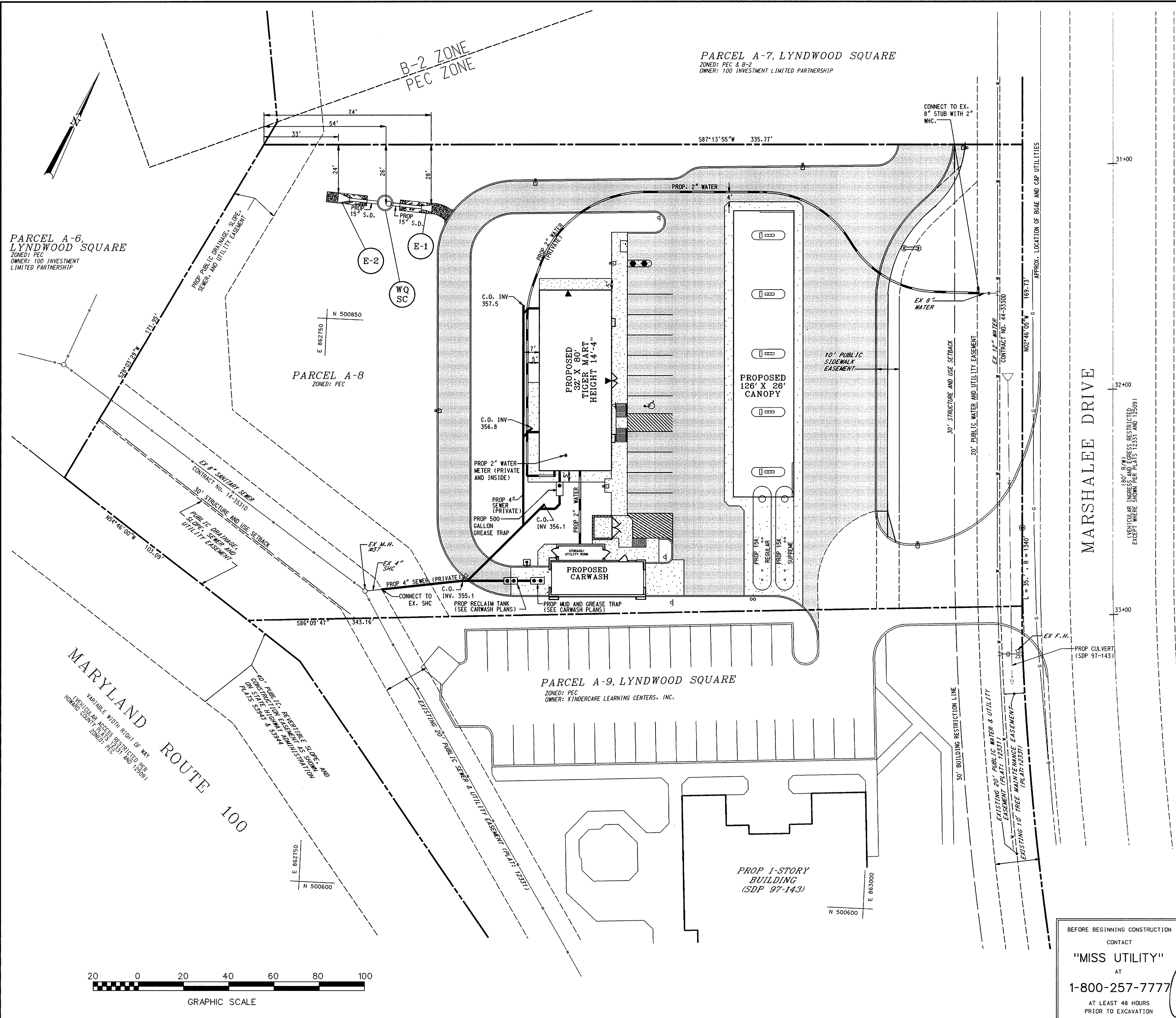
FIRST ELECTION DISTRICT WATER CODE D04 HOWARD COUNTY, MD. CENSUS TRACT NO.: 6011 SEWER CODE 2610400

DESIGN BY: JBG SCALE: 1"= 20' RAS NO.: 2-0352  
 DRAWN BY: LCF DATE: 03/30/98 DRAWING NUMBER  
 CHECKED BY: JBG APPROVED: 04 OF 12



FWA FILE NO./PROJECTS/98336/ENGR/PEGRAD.DGN 0597

SDP 98-16



PARCEL A-6, LYNDWOOD SQUARE  
 ZONED: PEC  
 OWNER: 100 INVESTMENT LIMITED PARTNERSHIP

PARCEL A-8  
 ZONED: PEC

PARCEL A-7, LYNDWOOD SQUARE  
 ZONED: PEC & B-2  
 OWNER: 100 INVESTMENT LIMITED PARTNERSHIP

PARCEL A-9, LYNDWOOD SQUARE  
 ZONED: PEC  
 OWNER: KINDERCARE LEARNING CENTERS, INC.

PROP 1-STORY BUILDING (SDP 97-143)

- ### GENERAL NOTES FOR UTILITY CONSTRUCTION
- INFORMATION CONCERNING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES WAS TAKEN FROM RECORDS PROVIDED BY UTILITY COMPANIES AND HOWARD COUNTY DPW. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. FREDERICK WARD ASSOCIATES, INC. MAKES NO GUARANTEE AS TO THE COMPLETENESS OR ACCURACY OF UTILITIES AND THEIR LOCATIONS, SHOWN OR NOT SHOWN, ON THESE DRAWINGS. SUCH INFORMATION PROVIDED ON THESE PLANS IS FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE CONTRACTOR SHALL VERIFY THE PRESENCE, ABSENCE, AND LOCATIONS OF ALL UTILITIES, TO HIS SATISFACTION, PRIOR TO ANY WORK UNDER THIS CONTRACT.
  - THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION AND EXCAVATION. PHONE 1-800-257-7777.
  - PRIOR TO ANY CONSTRUCTION UNDER THIS CONTRACT, CONTRACTOR SHALL TEST PIT TO VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES WHERE UTILITY TIE-INS AND CROSSINGS WILL BE ENCOUNTERED. ANY DISCREPANCIES IN HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DRAWINGS, PARTICULARLY AT PROPOSED STORM DRAIN, SANITARY, AND WATER CONNECTIONS, SHALL BE IMMEDIATELY REPORTED TO FREDERICK WARD ASSOCIATES PRIOR TO ANY CONTINUATION OF WORK UNDER THIS CONTRACT. THIS IS FOR THE PURPOSE OF IDENTIFYING ANY CONFLICTS WHICH MAY IMPACT THE PROPOSED DESIGN, AND RESOLUTION OF SAID CONFLICTS PRIOR TO CONTINUATION OF WORK.
  - ANY EXISTING UTILITIES AND AMENITIES WHICH ARE DAMAGED DUE TO TEST PITTING AND UTILITY CONSTRUCTION SHALL BE REPAIRED IN KIND AT THE SOLE EXPENSE OF THE CONTRACTOR.
  - ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
  - ALL STORM DRAIN, WATER, SEWER, AND PRODUCT PIPING UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION, AND EXXON SPECIFICATIONS.
  - ANY PROPOSED GAS AND ELECTRIC SERVICE TO BE COORDINATED IN THE FIELD BY THE EXXON FIELD ENGINEER WITH BGE FOR LOCATION AND SIZE OF SERVICE.

- ### GENERAL NOTES FOR WATER AND SEWER CONSTRUCTION
- WATER METER LID AND SANITARY CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE IDENTIFIED AS SANITARY CLEANOUTS, THREADED, AND CONTAIN COUNTERSUNK PLUGS.
  - UTILITIES SHALL MAINTAIN A MINIMUM 12-INCH VERTICAL CLEARANCE WHEN CROSSING EXISTING AND PROPOSED UTILITIES ON AND OFF SITE.
  - WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
  - WATER SERVICE SHALL BE TYPE K COPPER TUBING. SANITARY SEWER PIPE SHALL BE PVC SCH. 40.
  - WATER AND SEWER SERVICES TO BE INSTALLED TO 12" INSIDE FACE OF BUILDING, WHEREIN CONNECTION TO BUILDING UTILITIES SHALL BE COORDINATED WITH THE BUILDING CONTRACTOR.

- ### GENERAL NOTES FOR STORM DRAIN CONSTRUCTION
- STORM DRAIN PIPE TO BE RCP CL. IV.
  - REFER TO STORM DRAIN PROFILES ON SHEET 8 FOR SIZE AND TYPE OF STORM DRAINS.
  - DUE TO THE FLAT NATURE OF THIS SITE, AND THE LACK OF A CLOSED STORM DRAIN SYSTEM, BUILDING AND CANOPY DOWNSPOUTS WILL DISCHARGE TO GRADE.

NO.	DESCRIPTION	INV. IN	INV. OUT	GRATE EL.
WO SC	STORMCEPTOR S/C 900	357.6	357.52	361.5
E-1	15" CONCRETE END SECTION HO. CO. STO. SD - 5.51	357.75	-	-
E-2	15" CONCRETE END SECTION HO. CO. STO. SD - 5.51	-	357.4	-

DATE:	NUMBER	REVISION DESCRIPTION
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
<i>Cheryl Hamilton</i>	5/10/98	DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION		
<i>James S. Rutter</i>	6/11/98	DATE
CHIEF-DIVISION OF LAND DEVELOPMENT		
<i>James S. Rutter</i>	6/12/98	DATE
DIRECTOR		
APPROVED:	FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS	
<i>Joyce M. Boyd</i>	5/15/98	DATE
COUNTY HEALTH DEPARTMENT		

OWNER  
**EXXON PIPELINE COMPANY**  
 800 BELL STREET  
 HOUSTON, TEXAS 77002

DEVELOPER  
**EXXON CORPORATION**  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. ROBERT CASERTA  
 PHONE: (301)-513-7511

DATE: 4/17/98

**FREDERICK WARD ASSOCIATES, INC.**  
 ENGINEERS • ARCHITECTS • SURVEYORS  
 P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
 PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243  
 FWA JOB NUMBER 96316 FWA DRAWING FILE NAME PEUTL.DGN

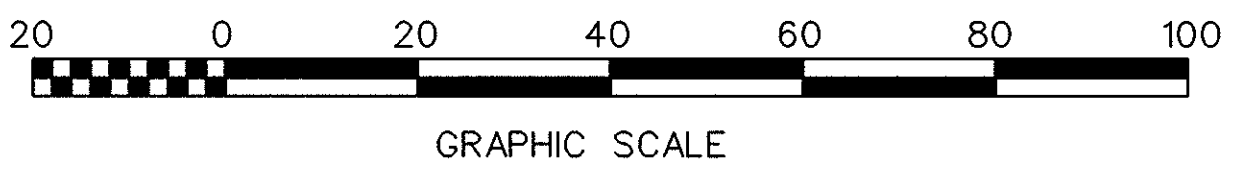
**SITE UTILITY AND PIPING PLAN**  
 FOR AN EXXON STATION AT  
**PARCEL A-8, LYNDWOOD SQUARE**  
 6070 MARSHALEE DRIVE, ELKBRIDGE, MD. 21227

FIRST ELECTION DISTRICT TAX MAP 37, GRID 16, P. 687 WATER CODE D04

HOWARD COUNTY, MD. CENSUS TRACT NO.: 6011 SEWER CODE 2610400

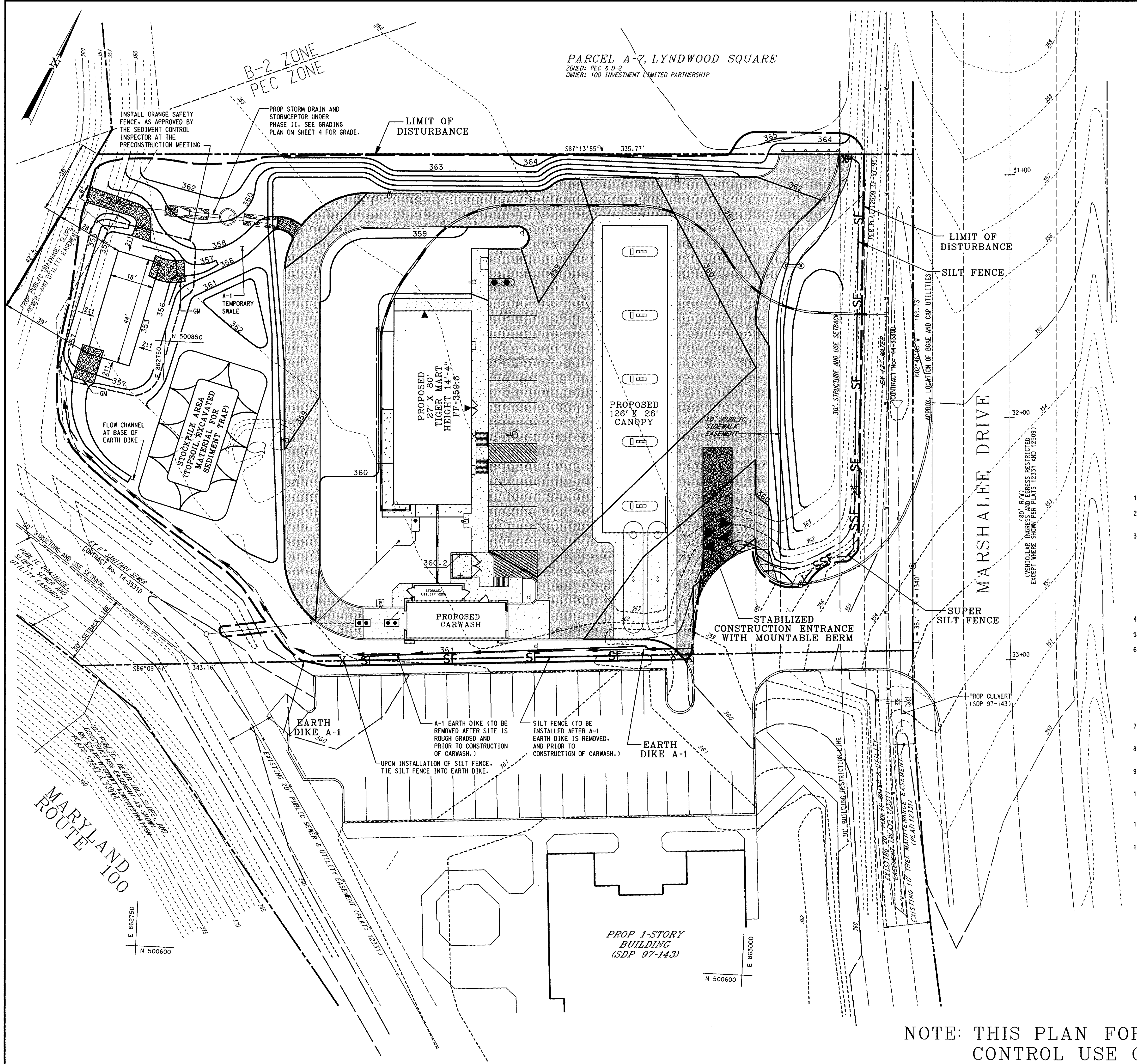
DESIGN BY: JBG SCALE: 1" = 20' RAS NO.: 2-0352  
 DRAWN BY: KN/LF DATE: 03/30/98 DRAWING NUMBER  
 CHECKED BY: JBG APPROVED: TIMOTHY F. WHITLIE PROFESSIONAL ENGR. NO. 19155 05 OF 12

BEFORE BEGINNING CONSTRUCTION CONTACT  
**"MISS UTILITY"**  
 AT  
**1-800-257-7777**  
 AT LEAST 48 HOURS PRIOR TO EXCAVATION



PWA FILE NO.: PROJECTS/96316/ENGR/PEUTL.DGN 0597

SDP-98-10



PARCEL A-7, LYNDWOOD SQUARE  
 ZONED: PEC & B-2  
 OWNER: 100 INVESTMENT LIMITED PARTNERSHIP

**LEGEND**

- STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM
- SILT FENCE
- SUPER SILT FENCE
- STOCKPILE AREA
- LIMIT OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SWALE
- GABION INFLOW PROTECTION

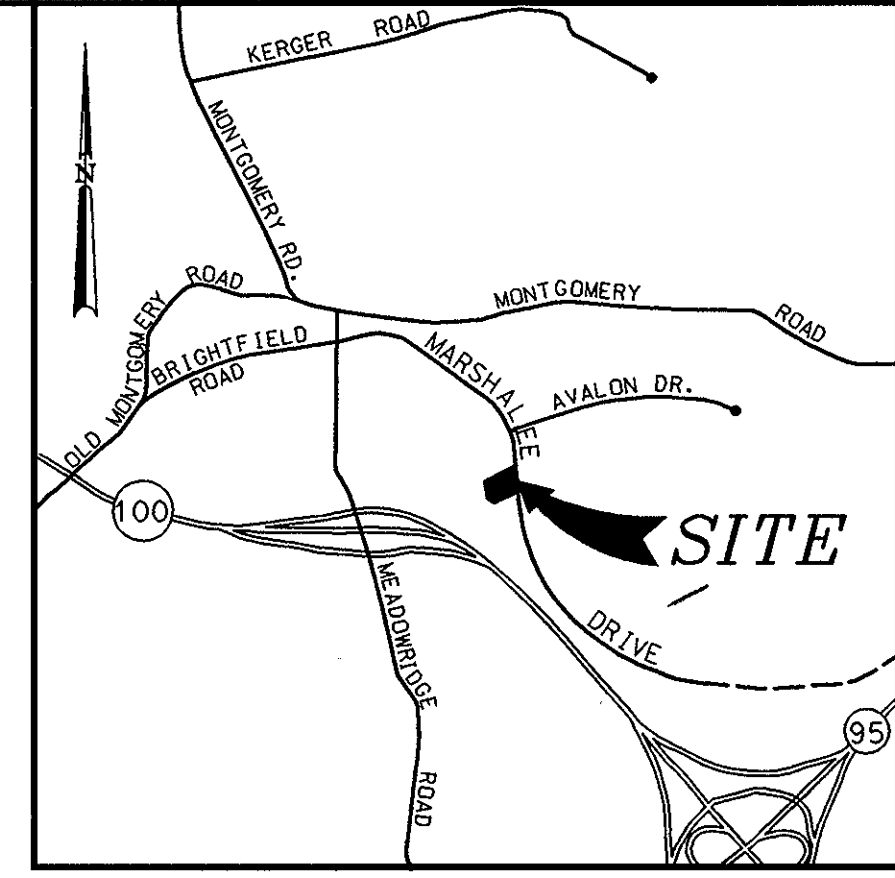
**STONE OUTLET SEDIMENT TRAP ST-II**

- DRAINAGE AREA = 65,340 S.F. OR 1.50 AC.
- STORAGE REQUIRED = 5400 CF
- STORAGE PROVIDED = 5408 CF
- WEIR LENGTH = 6 FT
- BOTTOM DIMENSION = 18' x 44'
- BOTTOM ELEVATION = 353.0
- WEIR CREST ELEVATION = 357.0
- EMBANKMENT ELEVATION = 358.00
- SIDE SLOPES = 2:1
- WET STORAGE ELEVATION = 355.35
- CLEANOUT ELEVATION = 354.15

**SEQUENCE OF OPERATIONS**

- PHASE I**
1. Obtain Howard County Grading Permit.
  2. Notify Howard County at least 48 hours prior to start of construction.
  3. With approval of sediment control inspector, install sediment control measures in the following order:
    - A. Stabilized construction entrance with mountable berm (Week 1).
    - B. Sediment trap and gabion inflow devices (Week 1).
    - C. Temporary swales (Week 1).
    - D. A-1 earth dike along southwest property line (Week 1).
    - E. Super silt fence and silt fence in front of site near Marshalee Drive (Week 1).
  4. Strip and stockpile topsoil. Rough grade site (Week 2).
  5. Install water and sewer utilities (Week 3).
  6. Install Tiger Mart convenience store, car wash, canopy and multi-product dispensers (Week 4-10).
 

Note: Prior to installation of car wash, and with permission of the sediment control inspector, remove approximately 140 LF of earth dike from the site entrance to the car wash. Install silt fence as indicated, tying the silt fence into the remaining portion of the earth dike.
  7. Install curb and gutter, sidewalk, base and paving. Fine grade site (Week 11).
  8. Stabilize site with sod, or seed and mulch.
- PHASE II**
9. Remove sediment trap after receiving permission from the sediment control inspector (Week 12).
  10. Install storm drain and water quality stormceptor. Immediately stabilize outfall areas disturbed due to installation of the stormceptor (Week 13).
  11. Install landscaping and stabilize any remaining disturbed areas (Week 14).
  12. Remove remaining sediment control measures after receiving permission from the sediment control inspector.
- Note: This sequence can be modified in the field, as conditions warrant modification, as long as the intention of the sediment control plan is not compromised and the contractor receives permission from the sediment control inspector.



**VICINITY MAP**  
 1"=2000'

DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
<i>John P. ...</i>	CHIEF-DEVELOPMENT ENGINEERING DIVISION	5/15/98 DATE
<i>Chris ...</i>	CHIEF-DIVISION OF LAND DEVELOPMENT	6/11/98 DATE
<i>John ...</i>	DIRECTOR	6/12/98 DATE

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

*Joyce M. ...* 5/15/98 DATE  
 COUNTY HEALTH OFFICER

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."

*John R. ...* 4/20/98 DATE  
 SIGNATURE OF ENGINEER

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

*John R. ...* 4/14/98 DATE  
 SIGNATURE OF DEVELOPER

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

*Cheryl Simmons* 5/16/98 DATE  
 U.S. NATURAL RESOURCES CONSERVATION SERVICE

*John R. ...* 5/16/98 DATE  
 HOWARD S.C.D.

OWNER  
**EXXON PIPELINE COMPANY**  
 800 BELL STREET  
 HOUSTON, TEXAS 77002

DEVELOPER  
**EXXON CORPORATION**  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. ROBERT CASERTA  
 PHONE: (301)-513-7511

SDP# 98-16

4/17/98 DATE

*John F. ...*  
 PROFESSIONAL ENGR. NO. 19155

**FREDERICK WARD ASSOCIATES, INC.**  
 ENGINEERS • ARCHITECTS • SURVEYORS

P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
 PHONE: (410) 819-2090 (410) 838-7900 FAX: (410) 893-1243  
 FWA JOB NUMBER: FWA DRAWING FILE NAME: PESD.DGN

SEDIMENT AND EROSION CONTROL PLAN  
 FOR AN EXXON STATION AT  
**PARCEL A-8, LYNDWOOD SQUARE**  
 6070 MARSHALEE DRIVE, ELK RIDGE, MD. 21227

FIRST ELECTION DISTRICT  
 TAX MAP 37, GRID 16, P. 687  
 WATER CODE D04

HOWARD COUNTY, MD.  
 CENSUS TRACT NO.: 6011  
 SEWER CODE 2610400

DESIGN BY: JBG SCALE: 1"=20'  
 DRAWN BY: KN/LF DATE: 03/30/98 RAS NO.: 2-0352  
 CHECKED BY: JBG APPROVED: DRAWING NUMBER  
 06 OF 12

NOTE: THIS PLAN FOR SEDIMENT CONTROL USE ONLY.

196316.ENG.PESD.DGN



**GENERAL NOTES**

- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ALL OPENINGS TO STRUCTURES SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
- VARIOUS TYPES OF EQUIPMENT ARE AVAILABLE COMMERCIALY FOR THE CLEANOUT OF SYSTEMS. THE MOST COMMONLY USED EQUIPMENT AND TECHNIQUES USED FOR CLEANING SUBSURFACE SYSTEMS ARE VACUUM PUMP & WATERJET SPRAY. BOTH SYSTEMS ARE GENERALLY MOUNTED ON A SELF-CONTAINED VEHICLE AND CAN EFFECTIVELY REMOVE STONES, LEAVES, LITTER, AND SEDIMENT DEPOSITS FROM SUMPS AND CHAMBERS.

**CONTRACTOR INSTALLATION INSTRUCTIONS  
PRECAST CONCRETE STORMCEPTOR**

FOR TECHNICAL INFORMATION CALL STORMCEPTOR CORPORATION AT 1-800-762-4703 OR STORMCEPTOR CANADA AT 1-800-565-4801

- Stake-out the location of the stormceptor and excavate hole. Excavate adequate space to connect inlet and outlet pipes to unit. Install a 12" deep (or as required) layer of compacted aggregate subbase or bottom of excavation. Install rule or shoring, as needed.
- Check elevation of unit by measuring its sections from base of the storage chamber (bottom of units slab) to the invert of stormceptor bypass chamber inlet elevation (fiberglass insert). Subtract this distance from design invert elevation to determine top of subbase elevation. Check elevation of installed subbase and adjust as needed.
- Secure inspector approval of subgrade and subbase.
- Install storage chamber. Install screw inserts into base of storage chamber. Attach cables or chains to all 3 lifting lugs on the base slab. Using large equipment or crane lift and place the base section of the storage chamber in the excavated hole on the subbase. Make sure that the base is level. Specific alignment of this part is not required. Install rubber gasket on base unit and coat with lubricating grease (provided in shipment), if not prelubricated. Install additional storage chamber sections, as required (procedure is same as Step 8).
- (For stormceptor models smaller than STC-2000 skip Step 5 and go to Step 6)
- Install reducing slab. (Stormceptor models > STC 2000) Check that section is set flush, level and is at the proper elevation. Install rubber gasket on the transition slab spigot and coat with lubricating grease (provided in shipment).
- Install bypass chamber of stormceptor with factory installed stormceptor insert. Lift bypass section and install, while checking alignment and grade of inlet and outlet drainage pipes. Check to make sure the bypass chamber is set flush, level and is at the proper elevation. The bypass chamber must be oriented such that inlet pipe discharges into the V-shaped fiberglass weirs (inside insert). Install rubber gasket on top of bypass section and coat with lubricating grease, if not prelubricated.
- Install inlet and outlet storm drain pipes. Connect inlet and outlet storm drain pipes with flexible boots (when provided) and with non-shrink grout when no flexible boots are provided. The invert of the inlet and outlet pipe is to match with the invert of the stormceptor insert. Flexible boot installation procedures: center the pipe in the boot opening. Lubricate the outside of the pipe and/or the inside of the boot if the pipe outside diameter is the same as the inside diameter of the boot. Position the pipe clamp in the groove of the boot with the screw at the top. Tighten the pipe clamp screw to 60 inch pounds. If the pipe is much smaller than the boot, lift the boot such that it contacts the bottom of the pipe while tightening the clamp to ensure even contraction of the rubber. Move the pipe horizontally and/or vertically to bring it to grade.
- Install stormceptor drop pipes according to STC pipe installation procedure on reverse side of these instructions.
- Install riser section. Lift riser section and install, while checking that section is set flush, level and is at the proper elevation and that unit is level. Specific alignment of this part is required if step(s) are included. Align steps above outlet inspection port. Note, for shallow installations this section may not be required.
- Install top cap with opening for stormceptor cover. If opening is offset (not centered) the top cap opening should be oriented above the stormceptor outlet inspection port (plug).
- Backfill stormceptor with approved backfill material (no organic or topsoil is to be used for backfill). Backfill and compact in 8 inch lifts. Backfill should be compacted to local/state/province requirements.
- Install and set grade adjusting rings, as needed.
- Install and set stormceptor frame and cover. Secure IM frame to top slab to prevent horizontal movement.
- The stormceptor should be pumped out when the sediment control measures are removed (site permanently stabilized), and filled with clean water.
- Final inspection.

**WATER QUALITY MAINTENANCE NOTES**

- INSPECT THE STORMCEPTOR ON A MONTHLY BASIS AND NOTE SEDIMENT AND OIL ACCUMULATIONS. MORE FREQUENT INSPECTIONS ARE APPROPRIATE WHERE OIL SPILLS OCCUR REGULARLY. STORMCEPTOR CANADA INC. CAN PROVIDE ADVICE ON SAMPLING EQUIPMENT.
- SEDIMENT SHOULD BE REMOVED ANNUALLY, OR WHENEVER THE ACCUMULATION REACHES 50% OF THE OPERATING DEPTH, FROM BASE TO DRAIN INVERT. MORE FREQUENT REMOVAL OF SEDIMENTS MAY BE NECESSARY IN AREAS OF NEW CONSTRUCTION, OR WHERE VEGETATION HAS NOT YET BEEN ESTABLISHED.
- VACUUM TRUCKS ARE USED TO REMOVE THE SEDIMENT AND OIL FROM THE STORMCEPTOR TREATMENT CHAMBER. OIL LEVELS GREATER THAN 2.5 CM SHOULD BE REMOVED IMMEDIATELY BY A LICENSED WASTE MANAGEMENT FIRM, AND SIGNIFICANT SPILLS MUST BE REPORTED TO THE APPROPRIATE REGULATORY AGENCY. TRUCK DRIVER SHALL ARRANGE FOR ON-SITE TRAFFIC CONTROLS WITH DEALER SO TRUCK CAN GET IN AND OUT OF CARWASH DRIVE TO AND FROM FLAT AREA NEAR STORMCEPTOR
- THE PIPES AND STRUCTURAL PARTS SHALL BE CLEANED AND REPAIRED AS NEEDED. REPAIR AND/OR REPLACEMENT OF PARTS SHALL BE IN KIND.
- ALL MAINTENANCE SHALL BE PERFORMED BY THE OWNER OR BY THE OWNER'S REPRESENTATIVE AT THE OWNER'S EXPENSE.
- MINIMIZE SURFACE EROSION FROM PERVIOUS SURFACES AT ALL TIMES; MAINTAIN GRASS, SOD, AND/OR MULCH COVERED UPON LANDSCAPINGS.
- REMOVE DEBRIS ON TOP OF INLET GRATES AFTER EVERY REINFALL, AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLETS AND STRUCTURES.
- AT INTERVALS NOT EXCEEDING 1 YEAR, OR AS NEEDED, REMOVE ALL GREASE
- THE DISPOSAL OF THE LIQUID AND SILD MATTER SHOULD BE AS FOLLOWS:
  - ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
  - THE SILD MATERIAL SHALL BE DELIVERED TO AN APPROVED SANITARY LANDFILL.

**REQUIRED PROCEDURES AND INSPECTIONS  
FOR INGROUND WATER QUALITY FACILITY**

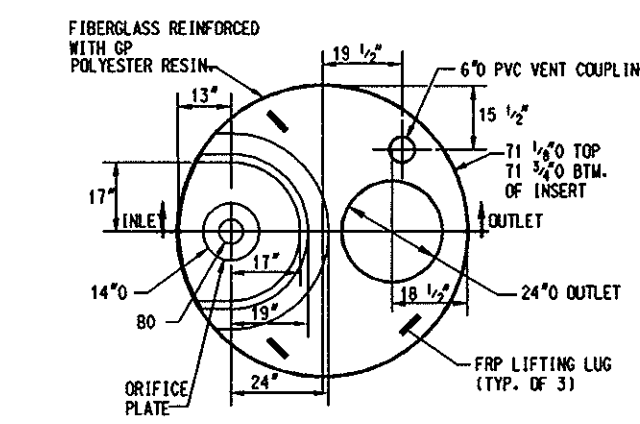
THE FOLLOWING INSPECTIONS ARE REQUIRED DURING CONSTRUCTION:  
(ADDITIONAL INSPECTIONS MAY BE REQUIRED AND NOTED BY THE INSPECTOR.)

- PRECONSTRUCTION MEETING: AN OPPORTUNITY TO REVIEW SITE PLANS, DISCUSS THE PURPOSE OF THE FACILITY AND TO ANSWER QUESTIONS REGARDING CONSTRUCTION AND/OR INSPECTION PROCEDURES.
- CONSTRUCTION: INSPECTIONS WILL BE MADE DURING THE CONSTRUCTION OF THE FACILITY TO ENSURE ACCORDANCE WITH THE PLANS. SPECIFIC INSPECTION REQUIREMENTS WILL BE DETERMINED AT THE PRECONSTRUCTION MEETING. INSPECTIONS TO BE MADE AT, BUT NOT LIMITED TO, THE FOLLOWING INSTALLATION STEPS:
  - INSTALLATION OF SUBGRADE AND SUBBASE
  - FINAL INSPECTION

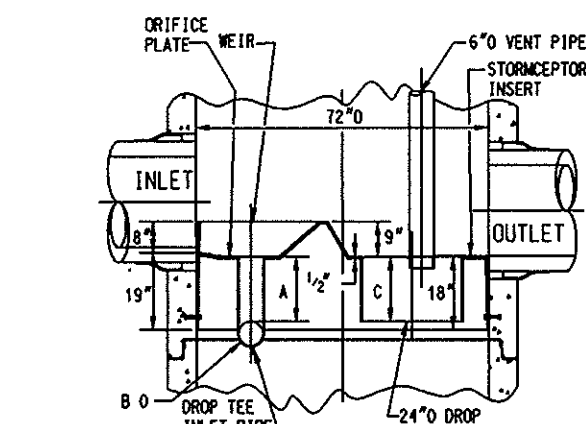
SEQUENCE OF CONSTRUCTION AND INSPECTOR'S CHECK-OFF LIST FOR SWM FACILITIES				
STAGE	DEVELOPER'S/ENGINEER APPROVAL		INSPECTOR'S APPROVAL	
	INITIALS	DATE	INITIALS	DATE
1. PRE-CONSTRUCTION MEETING. *				
2. INSTALLATION OF STRUCTURES AND ASSOCIATED STORM DRAINAGE *				
3. SITE IS PERMANENTLY STABILIZED, SEDIMENT CONTROL MEASURES REMOVED AND ALL SEDIMENT AND DEBRIS REMOVED FROM THE STRUCTURE. *				
4. FINAL INSPECTION. *				

NOTE: SEE CONSTRUCTION SPECIFICATIONS FOR DETAILED REQUIREMENTS.  
\* MANDATORY NOTIFICATION/APPROVAL OF INSPECTOR PRIOR TO PROCEEDING WITH NEXT STAGE.

**Hydro Conduit**  
11352 Virginia Precast Road, Ashland, VA 23009 (804) 798-6068  
**STORMCEPTOR DISK TYPE**  
FIBERGLASS INSERT DETAIL



PLAN

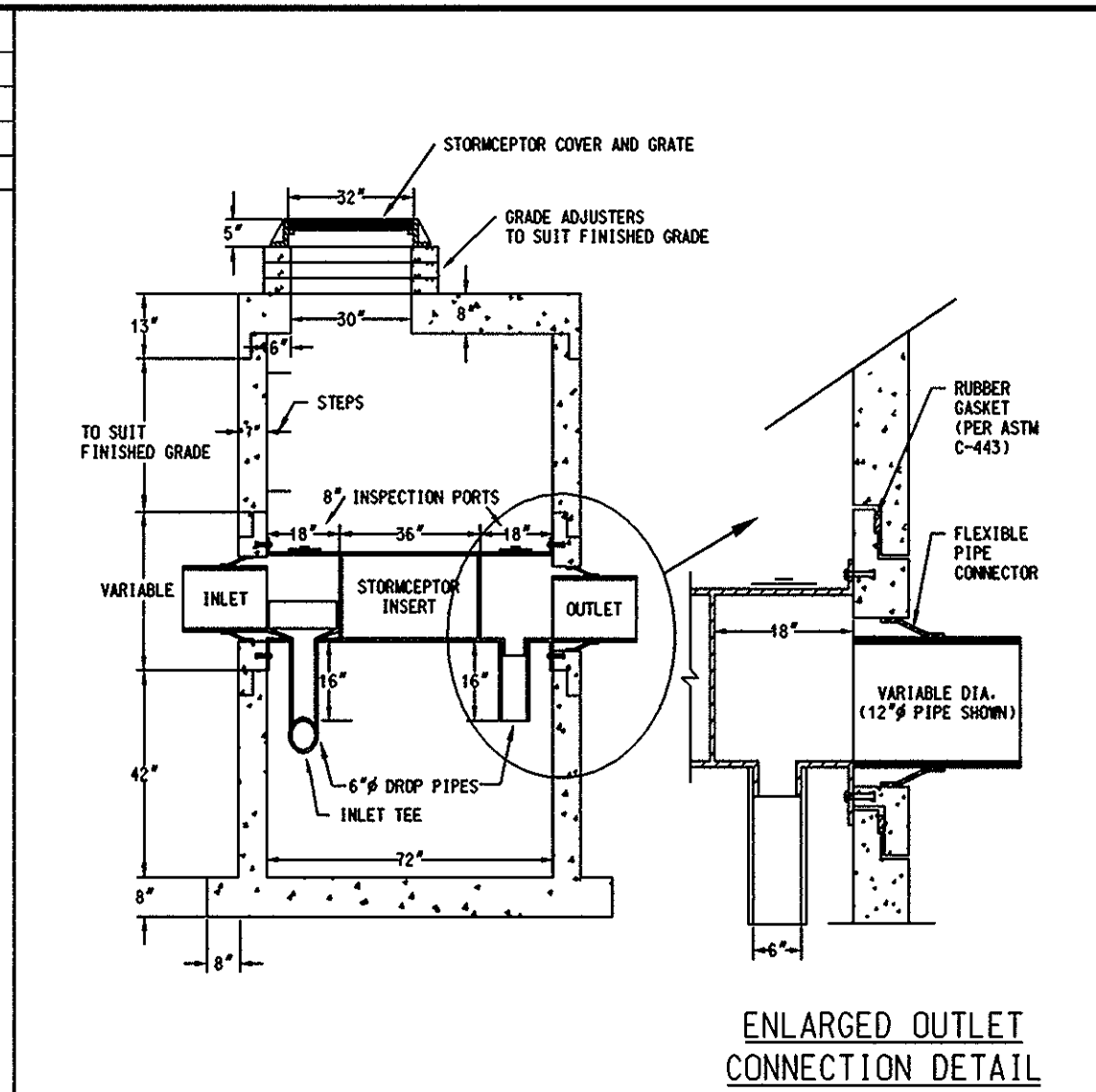


SECTION

- GENERAL NOTES:**
- CSR HYDRO CONDUIT RECOMMENDS THE USE OF FLEXIBLE PIPE CONNECTORS AT THE INLET PIPE AND OUTLET PIPE WHERE APPLICABLE.
  - STORMCEPTOR FRAME AND COVER TO BE POSITIONED OVER OUTLET DROP PIPE.
  - INSERT TO BE INSTALLED WITH SIX 1/2" DROP-IN ANCHORS AND BELTS.
  - INSERT TO BE SEALED AROUND CIRCUMFERENCE WITH CHEMREX 948.

UNIT	A (in.)	B (in.)	C (in.)
STC 300	16	6	16
STC 1200	16	6	16
STC 1800	16	6	16
STC 2400	44	8	44
STC 3600	44	8	44
STC 4800	44	10	44
STC 6000	44	10	44
STC 7200	44	12	44

REV.	DESCRIPTION	BY:	DATE



ENLARGED OUTLET CONNECTION DETAIL

- NOTE:**
- NON-SMOOTH OUTSIDE WALL PIPE TO BE GROUDED IN PLACE (NO KOR-SEAL BODIES)
  - RISE SECTION ABOVE THE INSERT TO BE 12" FOR A MINIMUM OF 60" OR TO THE GRADE (WHICHEVER IS THE LESSER)
  - COVER TO BE LOCATED ADJACENT TO INLET INSPECTION PORT

**DESIGN SPECIFICATIONS**

- ASTM C 419
- BASE WEIGHT = 6.46 TONS

STORMCEPTOR MODEL NO.	STORAGE CHAMBER, FT.	RISE SECTION, FT.
STC 900	5.2	1.5

REV. DATE: 08/16/95  
D.B. SCALE: NTS  
S.B. UNITS: U.S.  
**STC 900 PRECAST CONCRETE STORMCEPTOR**  
900 US GALLON CAPACITY

**Stormceptor® GASKET  
INSTALLATION INSTRUCTIONS**

**GUIDELINES FOR ASSEMBLING  
PROFILE GASKETS ON A SINGLE STEP  
STORMCEPTOR® JOINT**

- The Stormceptor® section should be handled with care to avoid any chipping of the bell or spigot.
- Carefully clean all dirt and debris from the spigot, including the step seating area of the gasket. Clean the inside area of the bell.
- Place the profile gasket in the step of the "dry" spigot. Verify that the pointed end of the gasket is directed towards the shoulders of the spigot. (See Figure 1)
- Insert a smooth, round rod, such as a screwdriver, between the gasket and the spigot. Be careful not to cut or lacerate the gasket. Equalize the gasket stretch by running the rod around the entire circumference several times.
- Apply joint lubricate to the inner surface of the bell including the leading edge. Lubricate the spigot and gasket.
- Align the Stormceptor® sections (spigot with the bell). Verify that the gasket touches the lead-in taper around the entire circumference.
- Gently push the joint home. Note that every section will not home exactly the same. (See Figure 2)

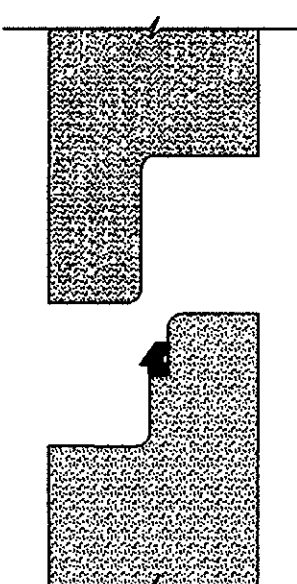


Figure 1

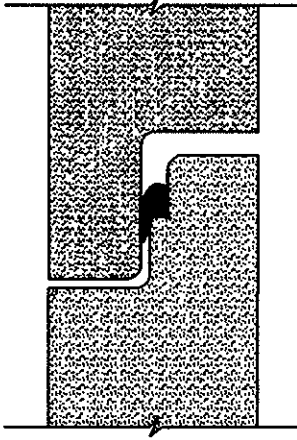


Figure 2

If jointing problems arise, do not force the Stormceptor® sections together (cracking may occur). Contact CSR Hydro Conduit immediately.

**Stormceptor® Order Request Form**

**Contractor Information**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

**Owner Information**

Name: EXXON CORPORATION  
Phone: (301) 513-7511  
Fax: (301) 513-7532

**Stormceptor® Model**

900	<input checked="" type="checkbox"/>	3600	<input type="checkbox"/>
1200	<input type="checkbox"/>	4800	<input type="checkbox"/>
1800	<input type="checkbox"/>	6000	<input type="checkbox"/>
2400	<input type="checkbox"/>	7200	<input type="checkbox"/>

**Insert Size**

22"  32"  44"  Custom

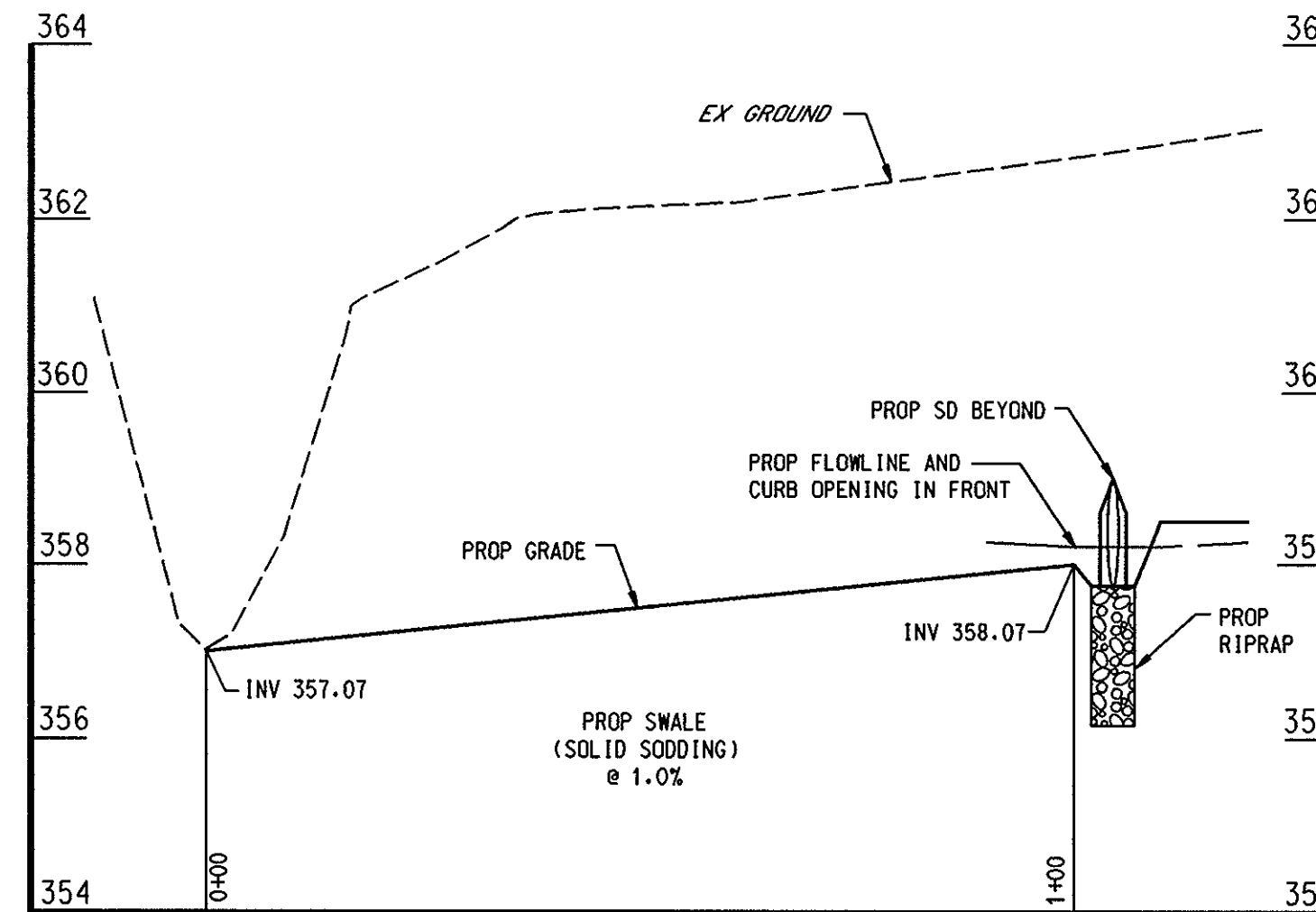
**Manhole WQSC**

Top Elevation (ft.) 361.5  
Inlet Pipe Invert (ft.) 357.6  
Outlet Pipe Invert (ft.) 357.52  
Pipe Type: RCP  
Pipe Inside Diameter (in) [0] 15"  
Pipe Outside Diameter (in) [0] 19 1/2"

**Project Name:** EXXON STATION RAS #2-0352  
**Approximate time frame until required delivery (weeks):** \_\_\_\_\_  
**Delivery Address:** Street: 6070 MARSHALEE DRIVE  
City: ELKRIDGE State: MD Zip Code: 21043  
**Designer:** Company: FREDERICK WARD ASSOC., INC.  
**Designer Contact:** JOHN GONZALEZ Phone: (410) 838-7900 Fax: (410) 893-1243

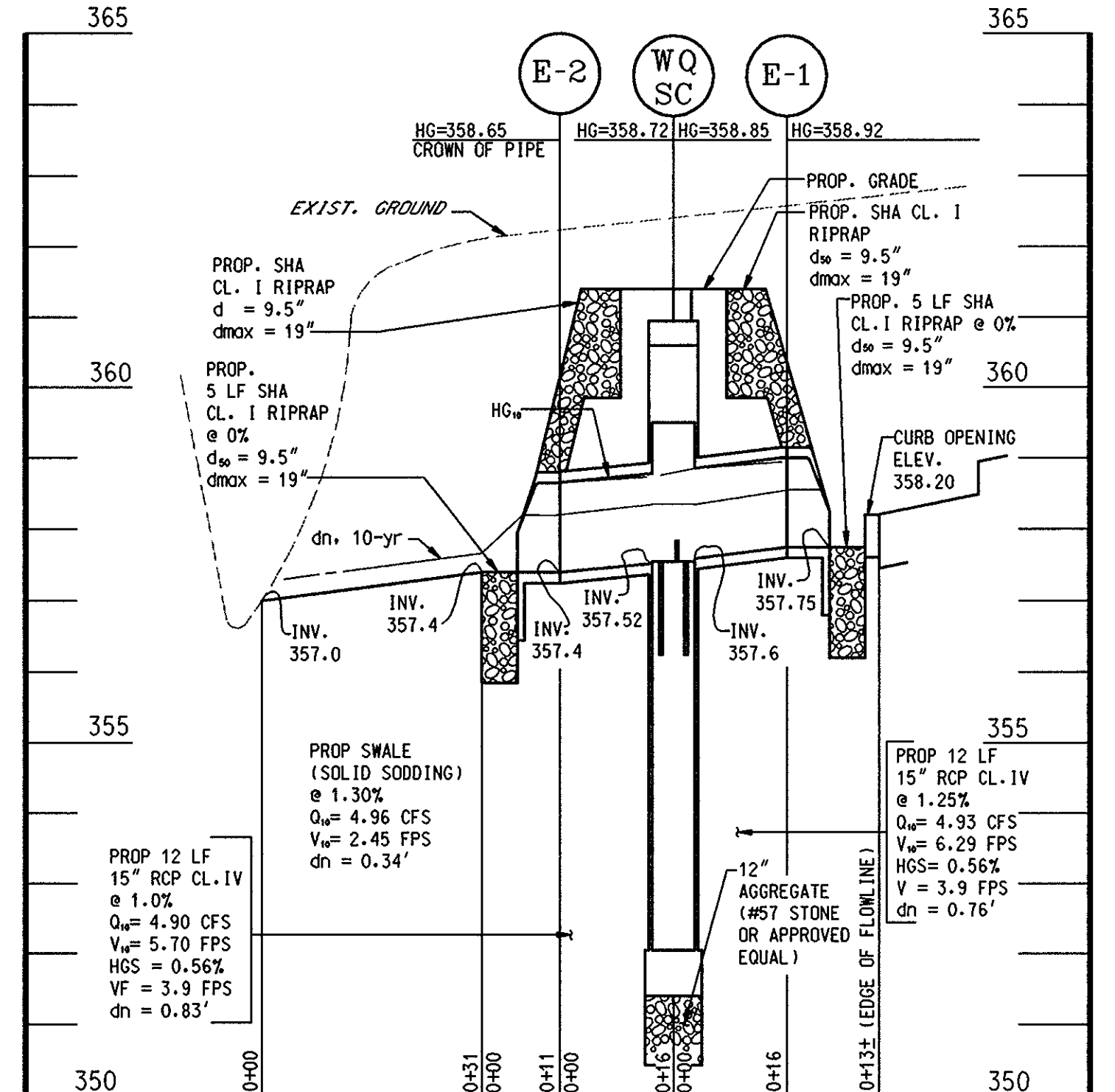
Please fax this sheet back to Hydro Conduit/Virginia Precast at (804) 798-3426  
Attn: Dave Brinser/Bryant Lowery (Phone: 1-800-999-2278)

For credit information/applications contact Carole Broadus at (804) 798-6068  
For Technical Assistance Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1-800-762-4703



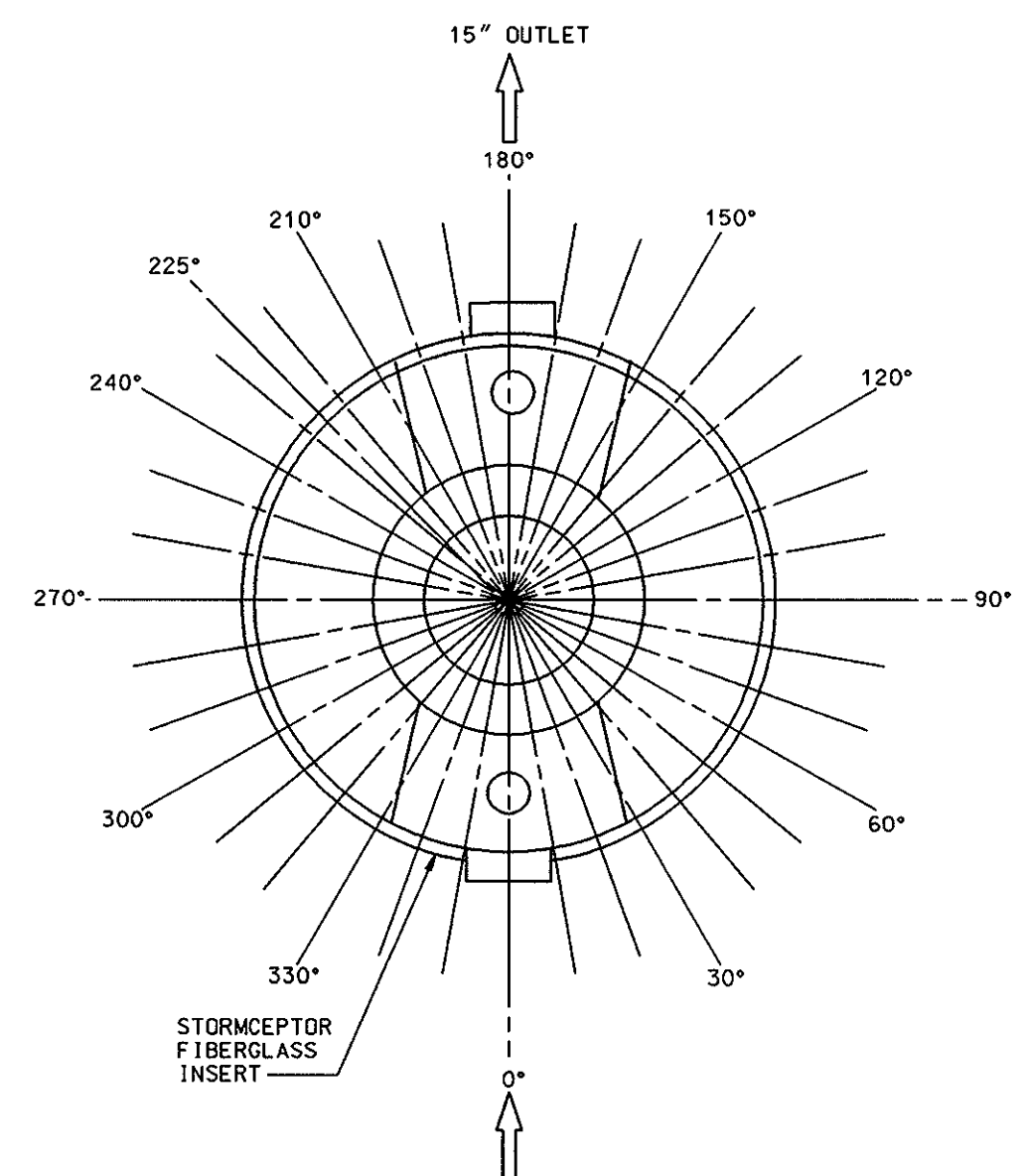
PROFILE: BYPASS SWALE

SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



PROFILE: STORM DRAIN

SCALE: HORZ: 1" = 20'  
VERT: 1" = 2'



STORMCEPTOR INSERT OUTLET LOCATION

NOT TO SCALE

DATE:	NUMBER	REVISION DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
CHIEF-DEVELOPMENT ENGINEERING DIVISION  
*Walter Williams* 5/6/98 DATE  
CHIEF-DIVISION OF LAND DEVELOPMENT  
*Cindy Hamilton* 6/11/98 DATE  
DIRECTOR  
*James M. Boyd* 6/12/98 DATE  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT.  
*James M. Boyd* 5/15/98 DATE  
OWNER  
EXXON PIPELINE COMPANY  
800 BELL STREET  
HOUSTON, TEXAS 77002  
DEVELOPER  
EXXON CORPORATION  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. ROBERT CASERTA  
PHONE: (301)-513-7511

SDP# 98-16

4/17/98 DATE

STATE OF MARYLAND  
TIMOTHY F. WHITTLE  
PROFESSIONAL ENGR. NO. 19155

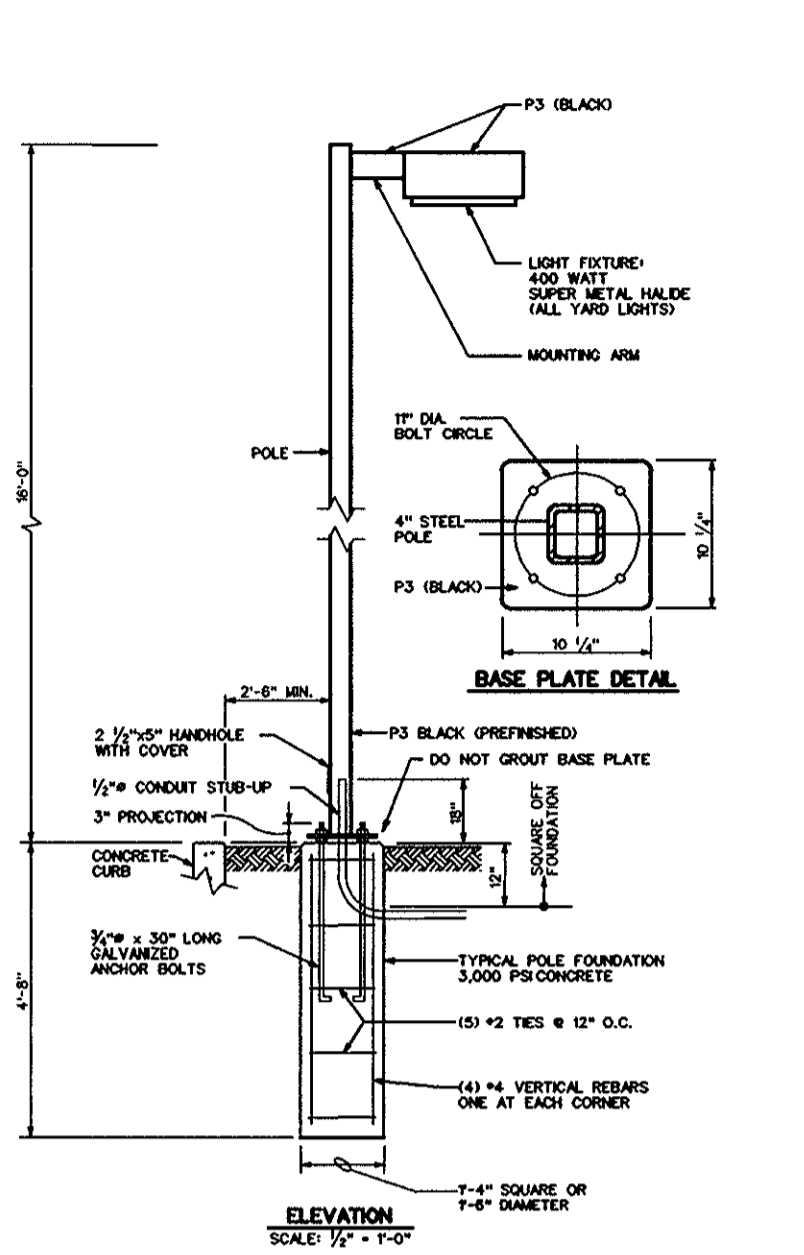
**FREDERICK WARD ASSOCIATES, INC.**  
ENGINEERS • ARCHITECTS • SURVEYORS  
P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243  
FWA JOB NUMBER 9636 FWA DRAWING FILE NAME: PESTORME.DGN

**STORMCEPTOR NOTES, DETAILS, AND  
STORM DRAIN PROFILE**

FOR AN EXXON STATION AT  
PARCEL A-8, LYNDWOOD SQUARE  
6070 MARSHALEE DRIVE, ELKRIDGE, MD 21227  
FIRST ELECTION DISTRICT HOWARD COUNTY, MD.  
TAX MAP 37, GRID 16, P. 687 CENSUS TRACT NO. 1, 6011  
WATER CODE D04 SEWER CODE 2610400

DESIGN BY: JBG SCALE: AS NOTED  
DRAWN BY: LCF DATE: 03/30/98 DRAWING NUMBER  
CHECKED BY: JBG APPROVED: 08 OF 12





**TYPICAL YARD LIGHT DETAIL**  
NOT TO SCALE

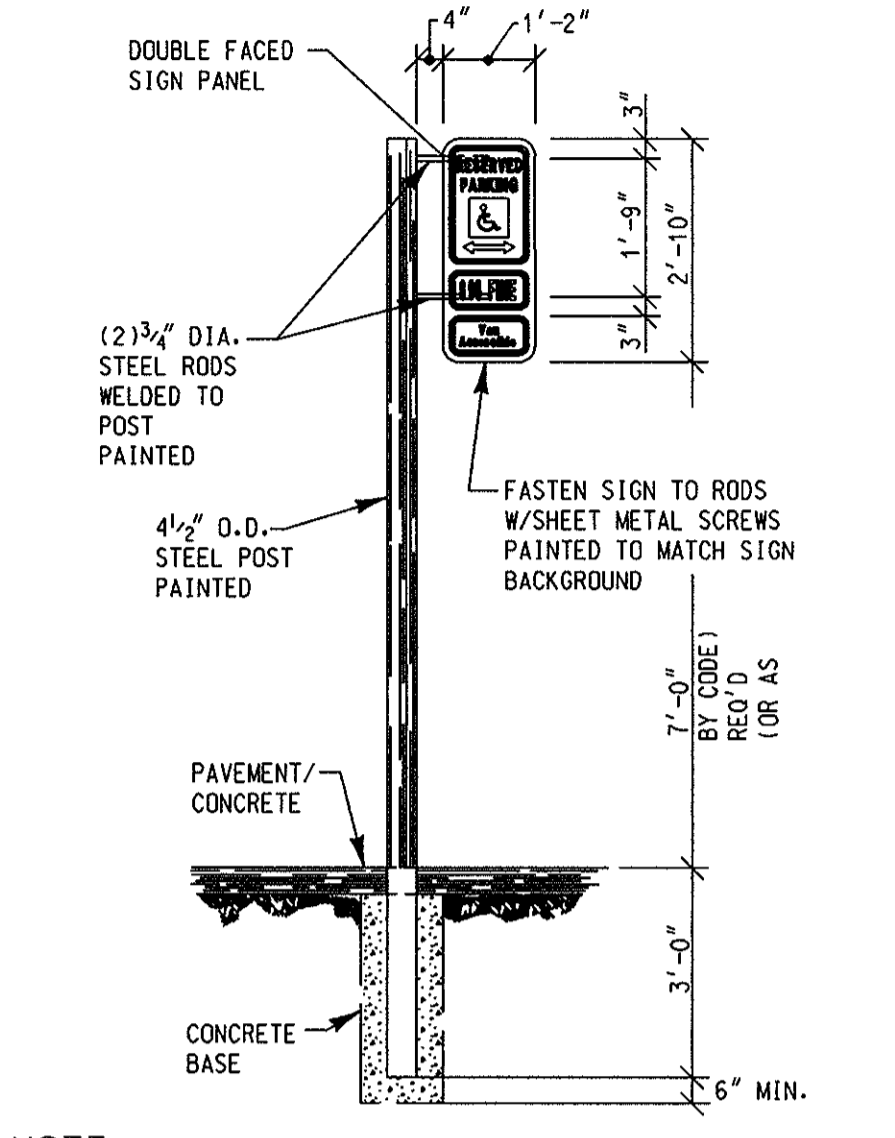
FURNISHED BY OWNER, INSTALLED BY G.C.: LIGHT FIXTURE, MOUNTING ARM, POLE, ANCHOR BOLTS, NUTS, AND WASHERS BY OWNER, ALL OTHER MATERIALS FURNISHED AND INSTALLED BY G.C.  
NOTE: LIGHTING TO BE SHIELDED ON TOP AND FOUR SIDES TO PREVENT GLARE ONTO ADJACENT PROPERTIES



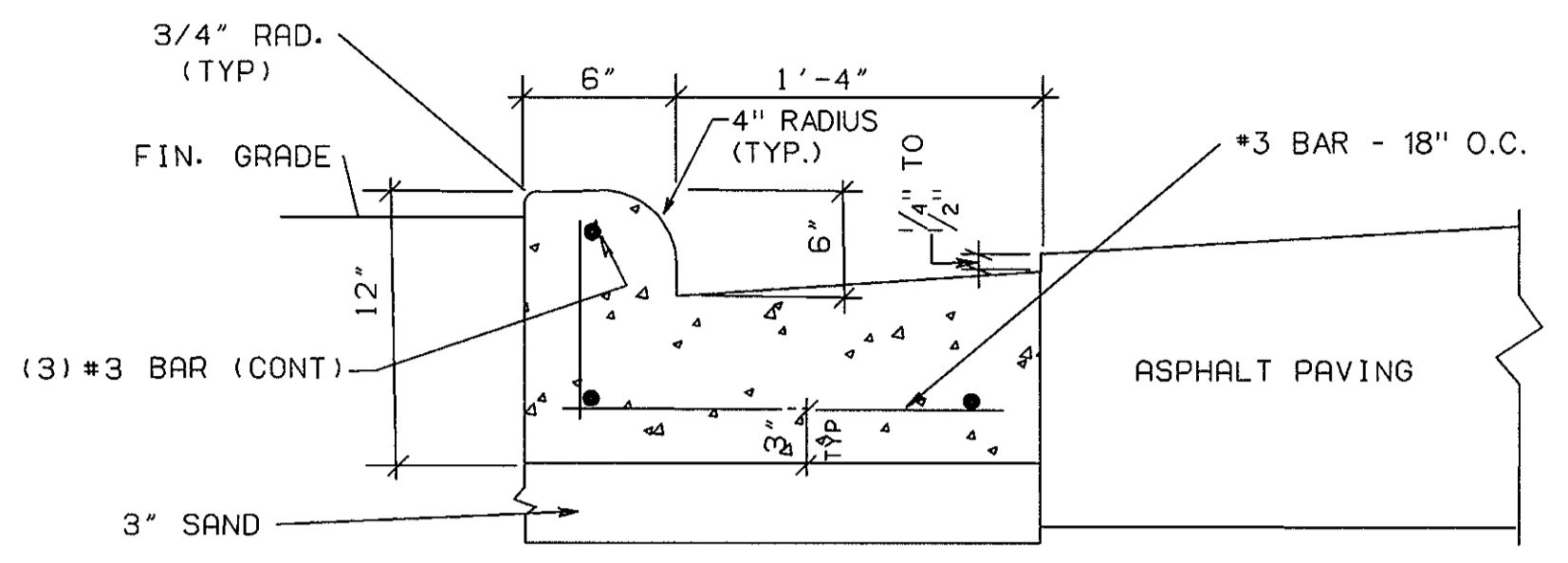
**COLORS:**  
LEGEND AND BORDER - GREEN  
WHITE SYMBOL ON BLUE BACKGROUND  
BACKGROUND - WHITE

**NOTE:**  
1.) ONE SIGN TO BE APPLIED TO METAL SIGN BOARD MOUNTED TO METAL POST.  
2.) FREE STANDING SIGN 7'-0" ABOVE FINISHED GRADE.  
3.) MOUNTED ON WALL OR STRUCTURE 6'-0" ABOVE GRADE.

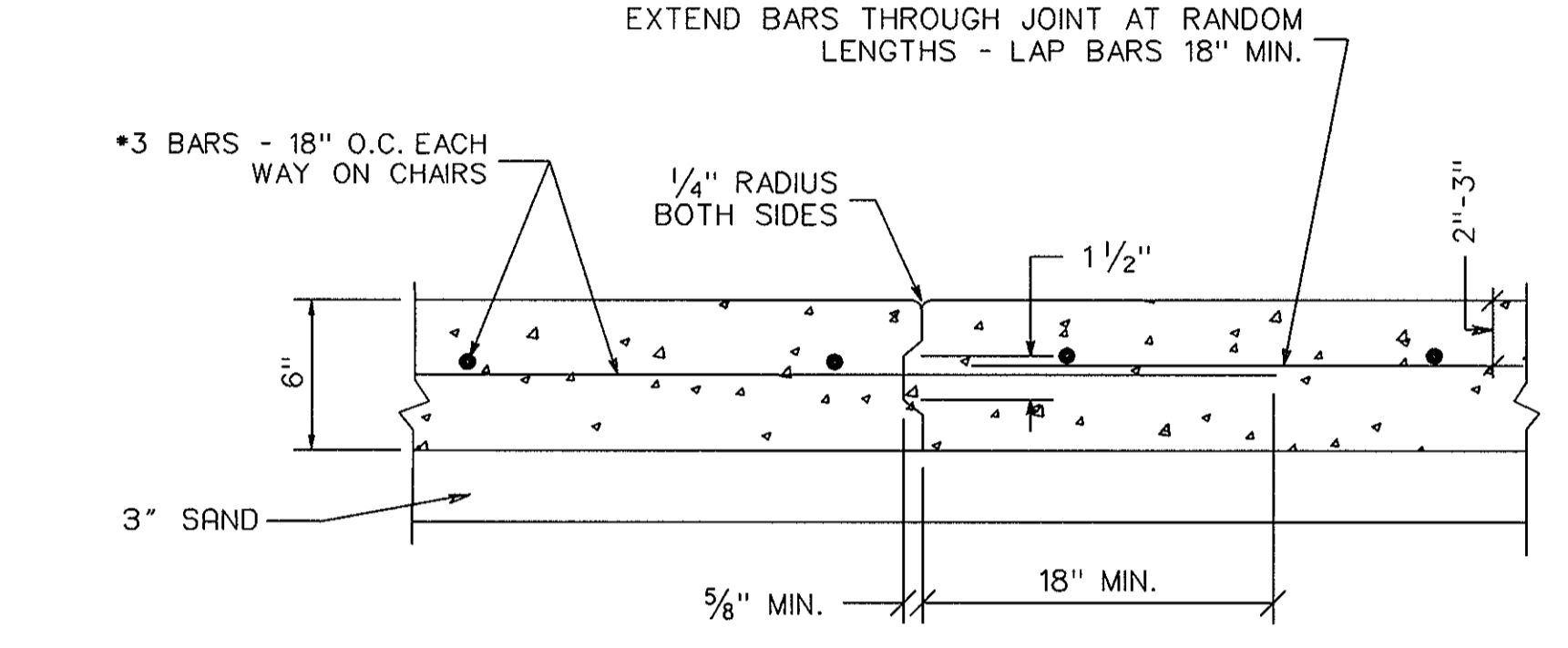
**HANDICAP SIGN DETAILS**  
NOT TO SCALE



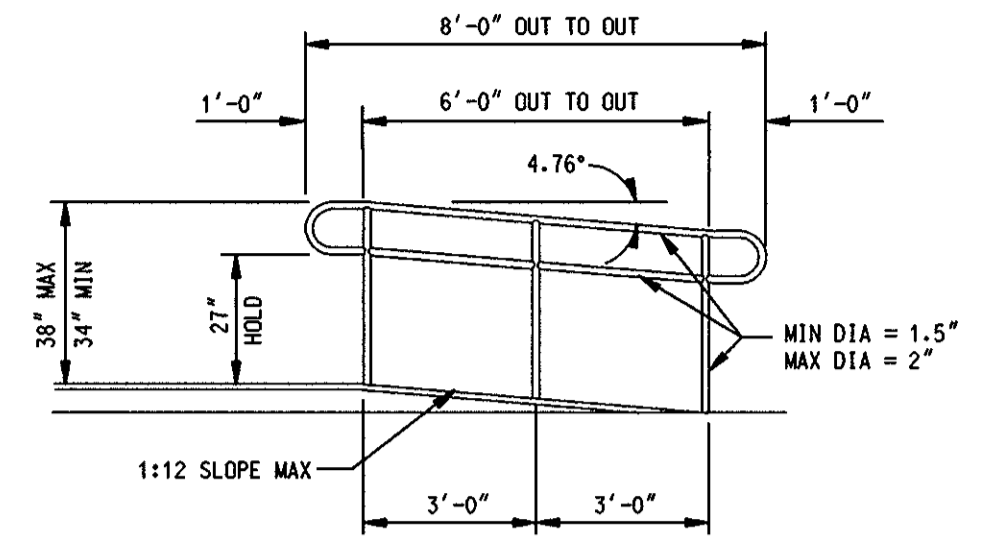
**NOTE:**  
APPLY HANDICAP SIGNS TO SIGN PANELS 1" SPACE BETWEEN SIGNS WITH A 1" MARGIN AROUND SIGN PANEL



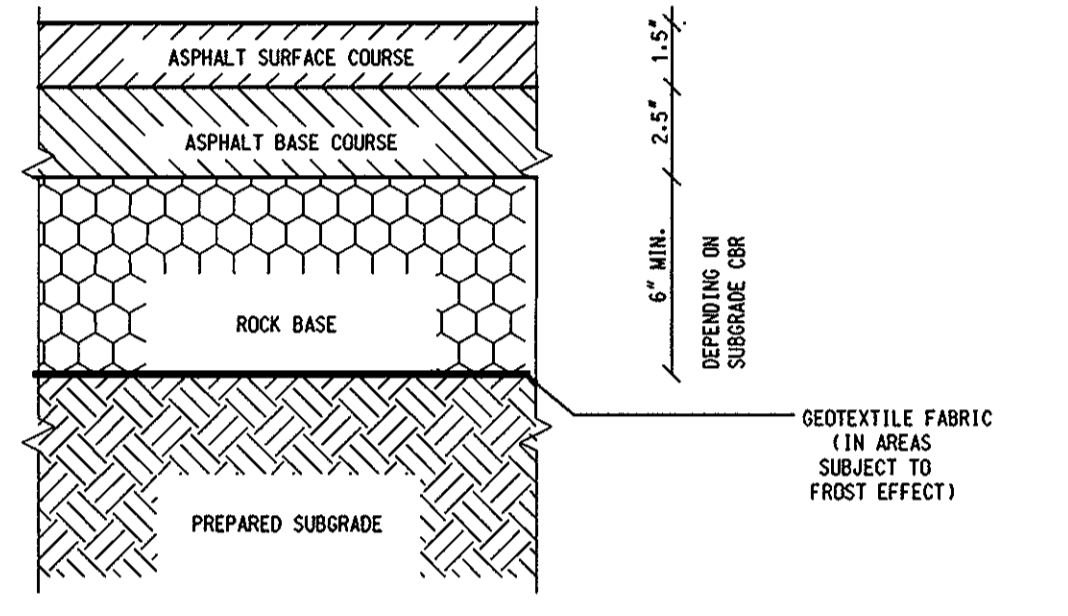
**ON-SITE CURB DETAIL**  
NOT TO SCALE



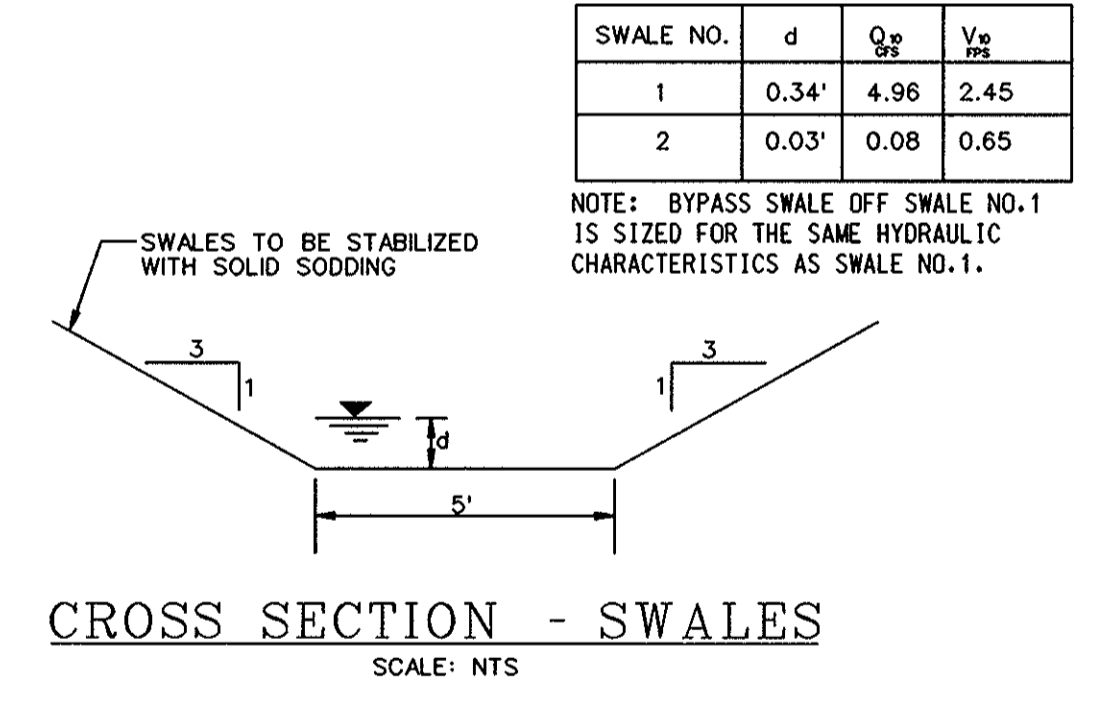
**ON-SITE CONCRETE PAVING DETAIL**  
NOT TO SCALE



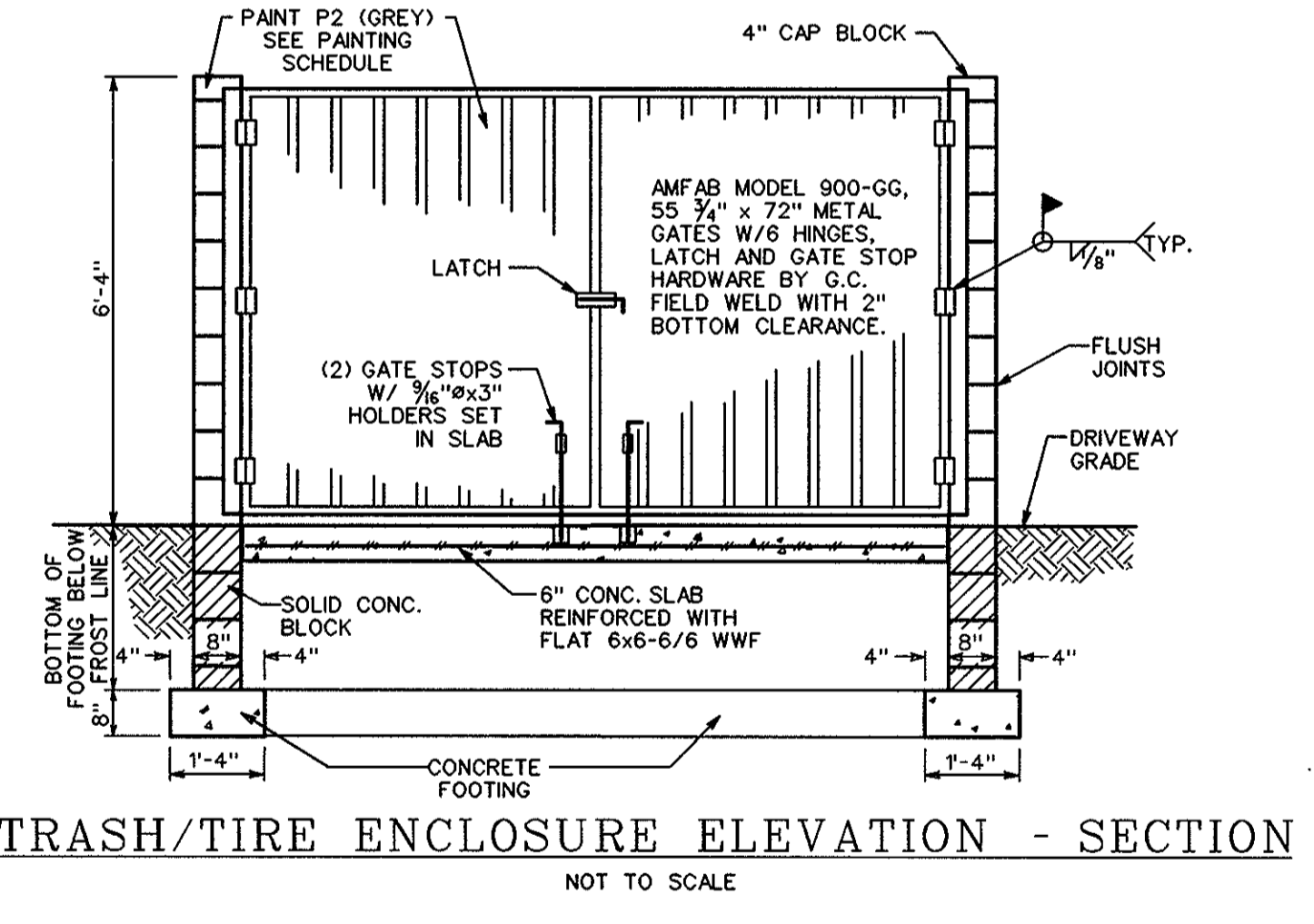
**HANDRAIL AND RAMP ELEVATION**  
NOT TO SCALE



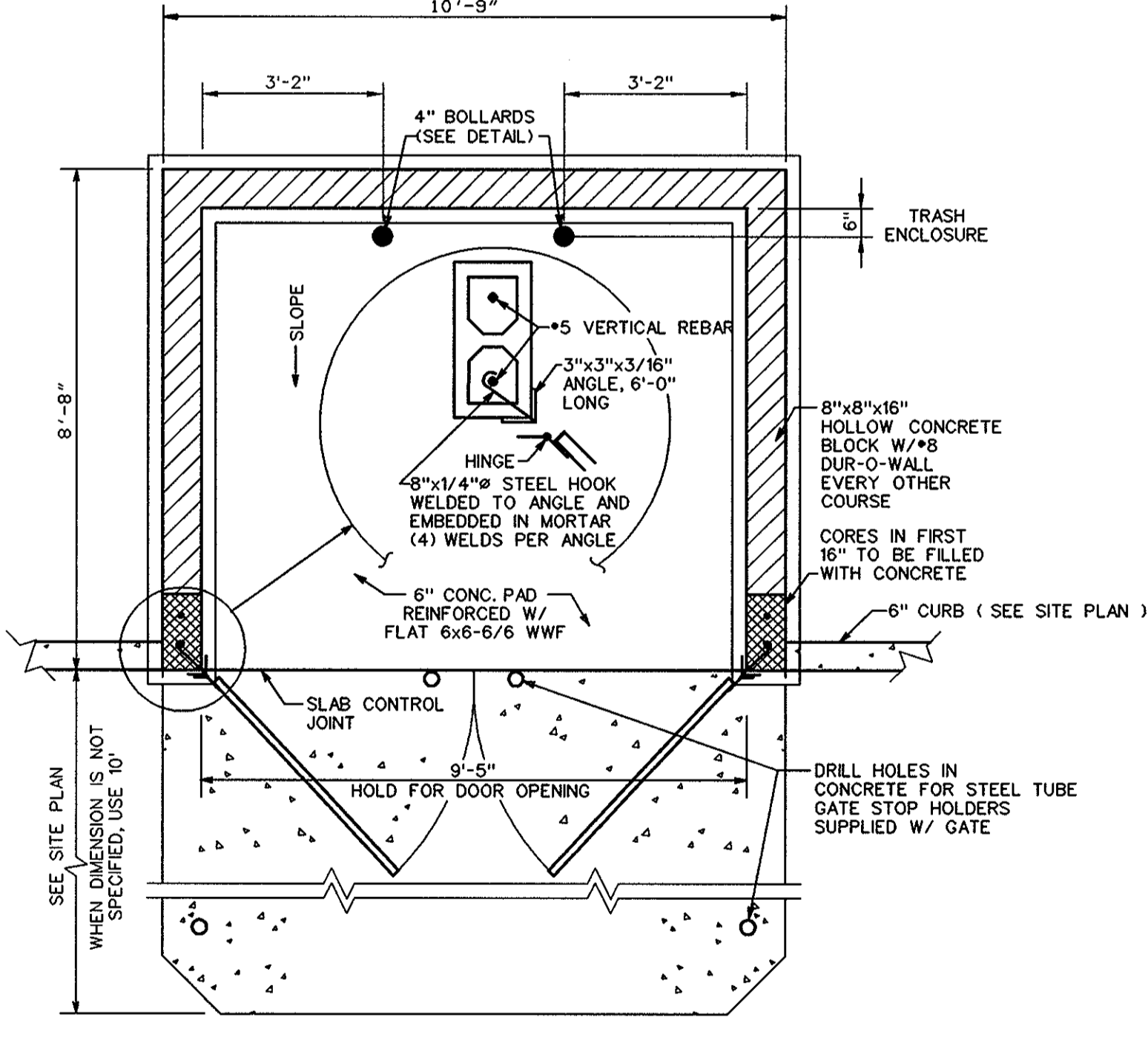
**P-2 ASPHALT PAVING SECTION**  
NOT TO SCALE



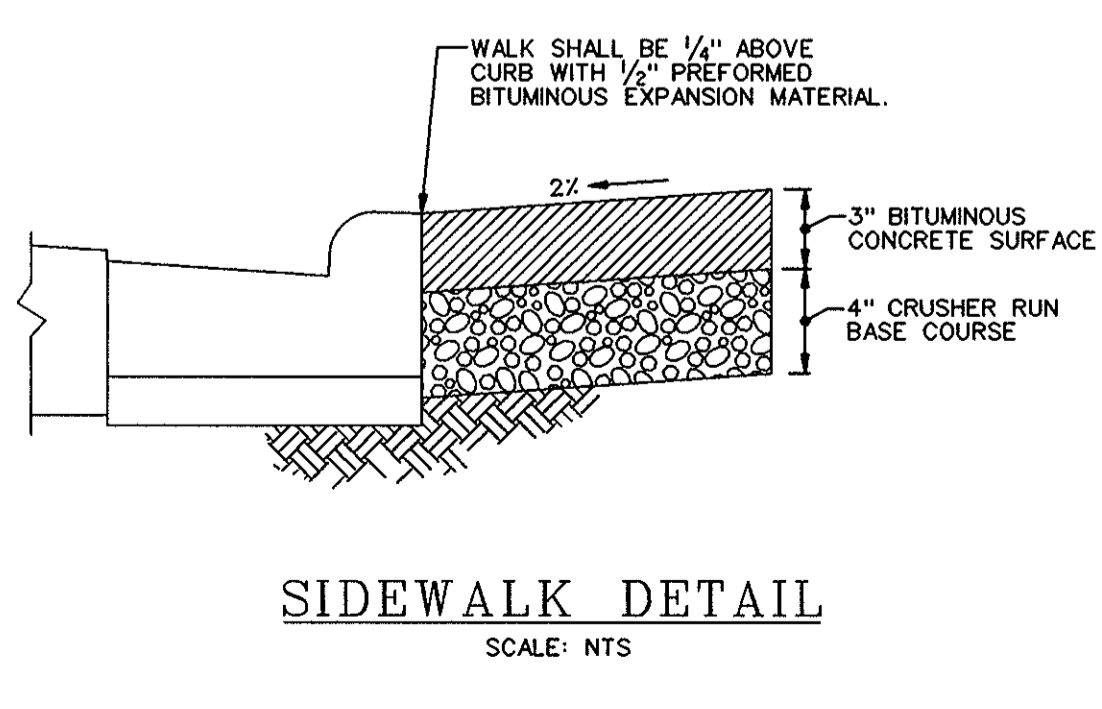
**CROSS SECTION - SWALES**  
SCALE: NTS



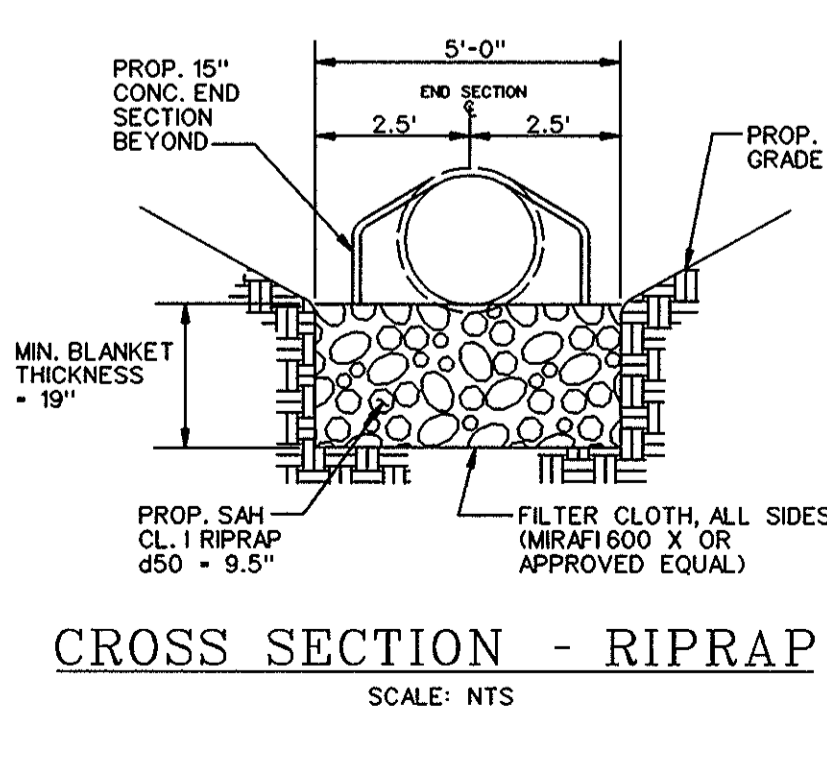
**TRASH/TIRE ENCLOSURE ELEVATION - SECTION**  
NOT TO SCALE



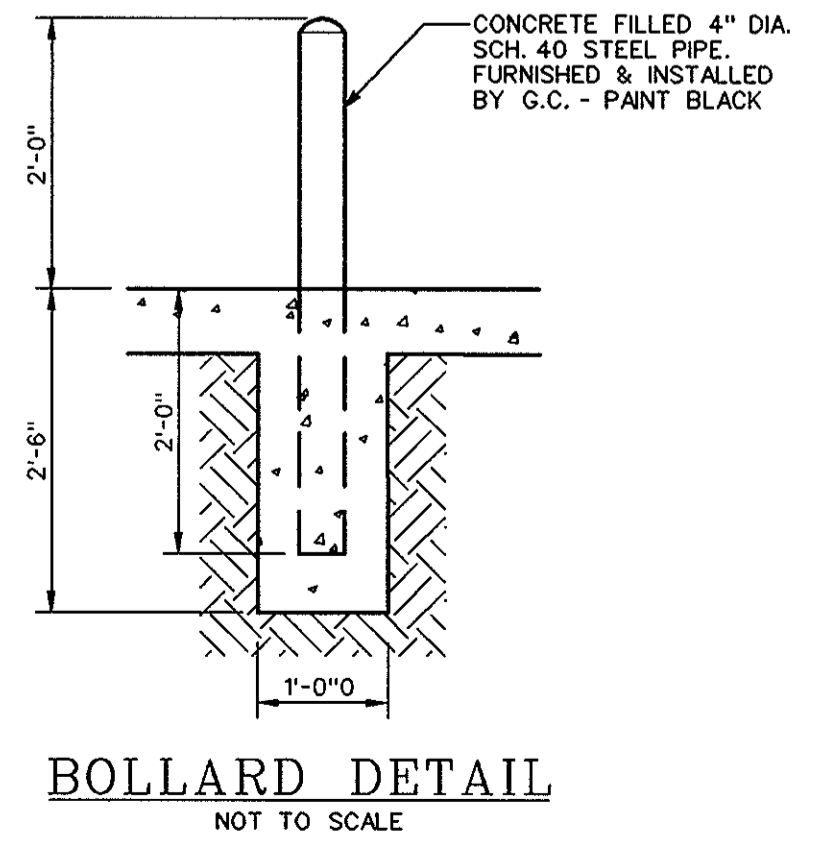
**TRASH ENCLOSURE PLAN**  
NOT TO SCALE



**SIDEWALK DETAIL**  
SCALE: NTS



**CROSS SECTION - RIPRAP**  
SCALE: NTS



**BOLLARD DETAIL**  
NOT TO SCALE

DATE:	NUMBER	REVISION DESCRIPTION
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
<i>John Hamilton</i>	5/10/98	DATE
<i>Paul White</i>	6/11/98	DATE
<i>Paul White</i>	6/12/98	DATE

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

*Joyce M. Borchert* 5/15/98  
COUNTY HEALTH OFFICER DATE

OWNER  
**EXXON PIPELINE COMPANY**  
800 BELL STREET  
HOUSTON, TEXAS 77002

DEVELOPER  
**EXXON CORPORATION**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. ROBERT CASERTA  
PHONE: (301)-513-7511

**FREDERICK WARD ASSOCIATES, INC.**  
ENGINEERS • ARCHITECTS • SURVEYORS

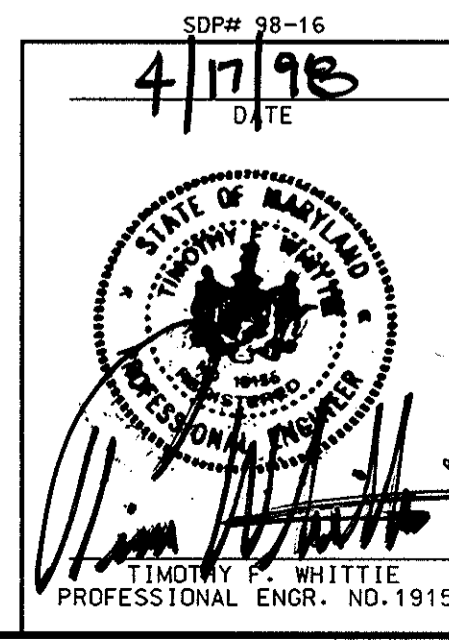
P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
PHONE: (410) 819-2090 (410) 838-7900 FAX: (410) 893-1243  
FWA JOB NUMBER 9836 FWA DRAWING FILE NAME PESITD1.DGN

**SITE DETAILS**  
FOR AN EXXON STATION AT  
**PARCEL A-8, LYNDWOOD SQUARE**  
6070 MARSHALEE DRIVE, ELKCRIDGE, MD. 21227

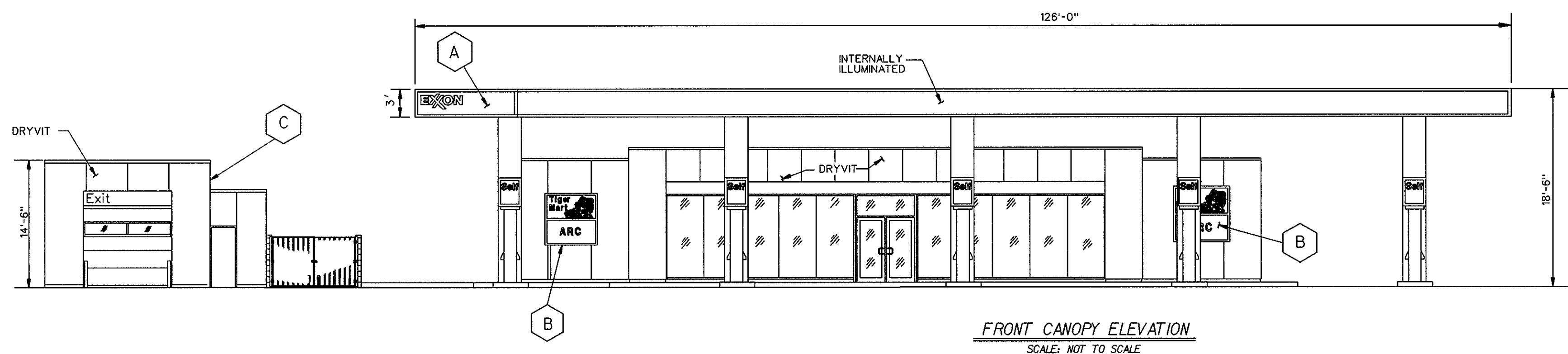
FIRST ELECTION DISTRICT: WATER CODE 004  
DESIGN BY: TFW  
DRAWN BY: KN/JJ/AF  
CHECKED BY: RBM

HOWARD COUNTY, MD.  
CENSUS TRACT NO.: 6011  
SEWER CODE 2810400  
SCALE: 1" = 20'  
DATE: 03/30/98  
APPROVED:

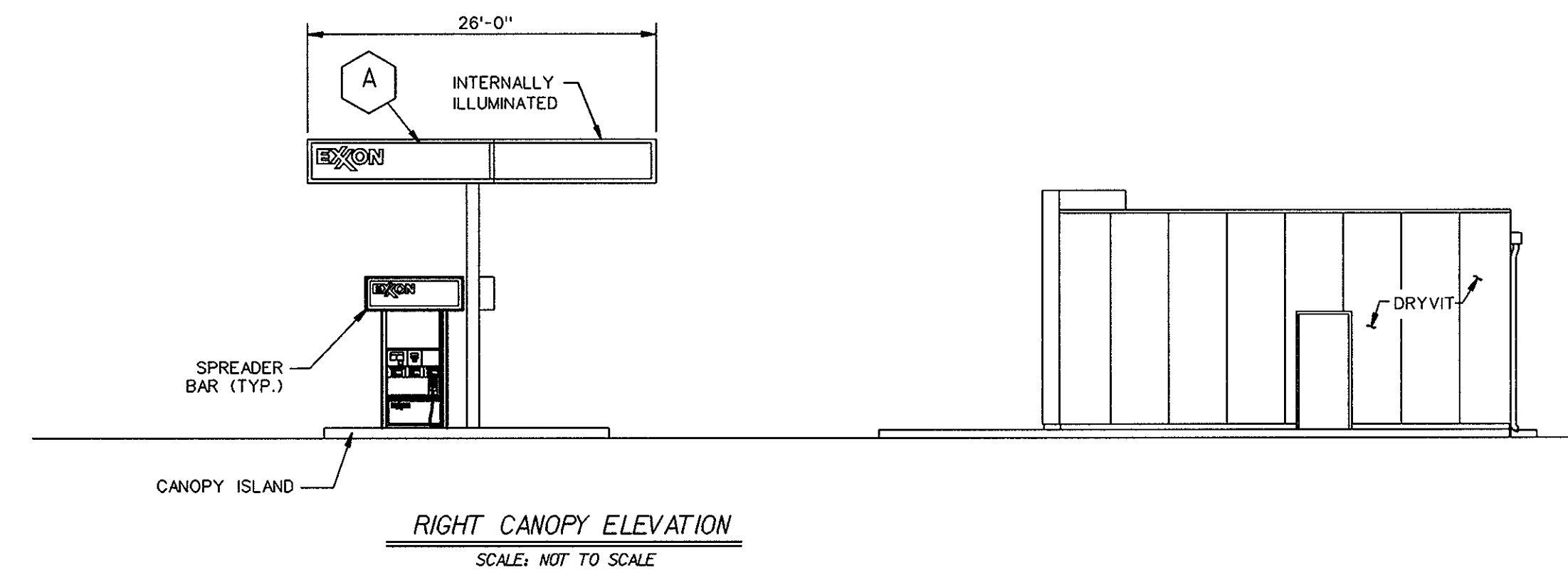
RAS NO.: 2-0352  
DRAWING NUMBER: 09 OF 12



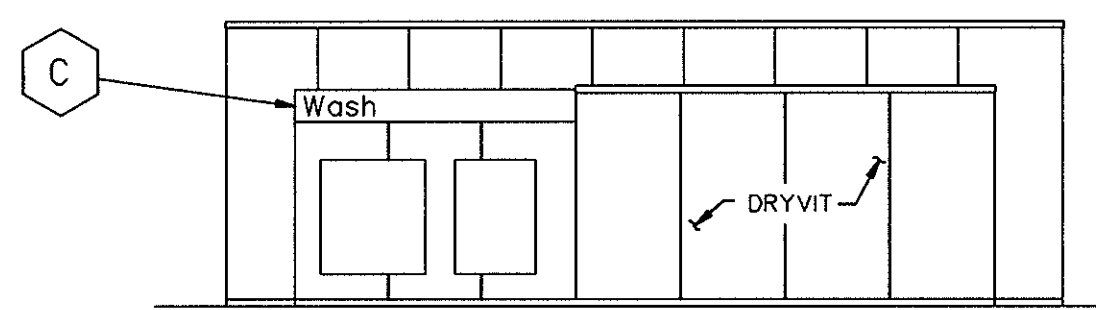
FWA FILE NO./PROJECTS/9836/ENGR/PESITD1.DGN KON 06-08-97



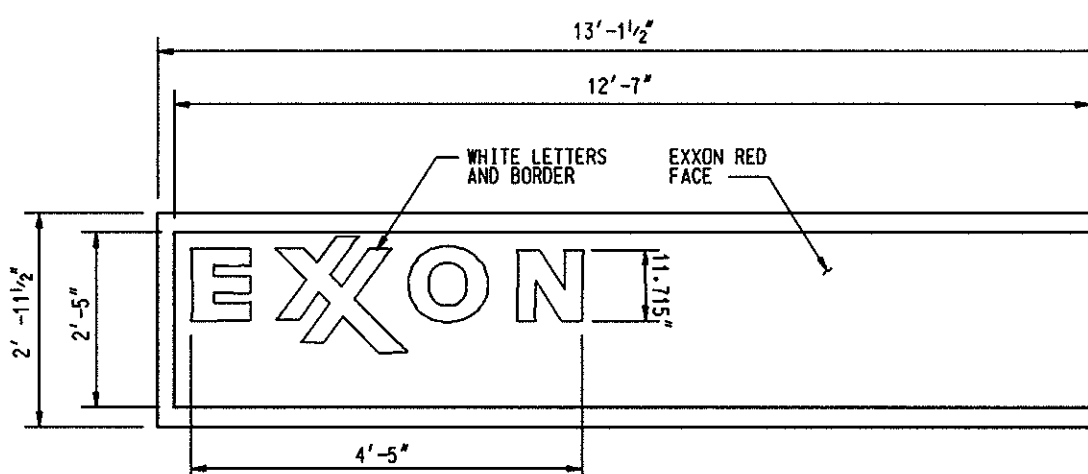
FRONT CANOPY ELEVATION  
SCALE: NOT TO SCALE



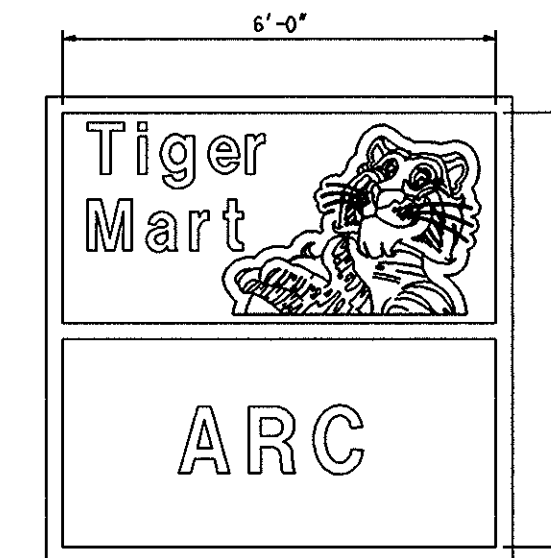
RIGHT CANOPY ELEVATION  
SCALE: NOT TO SCALE



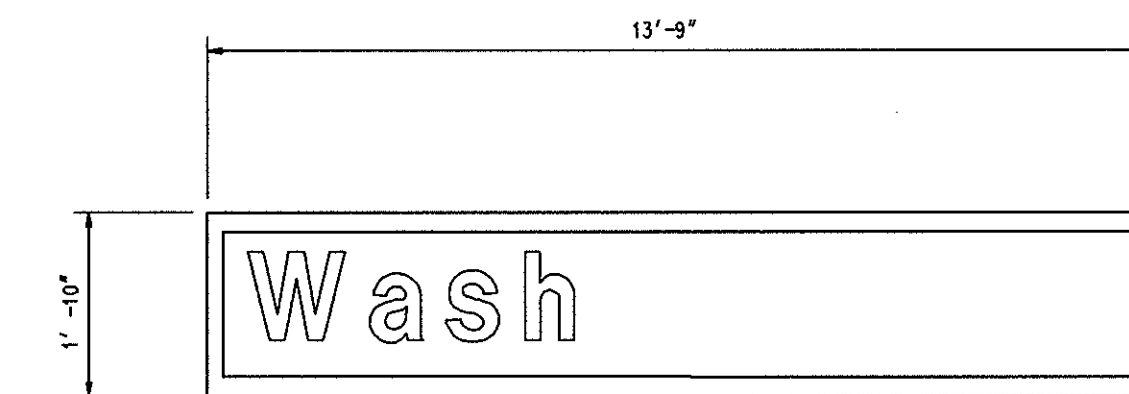
CAR WASH FRONT ELEVATION  
SCALE: NTS



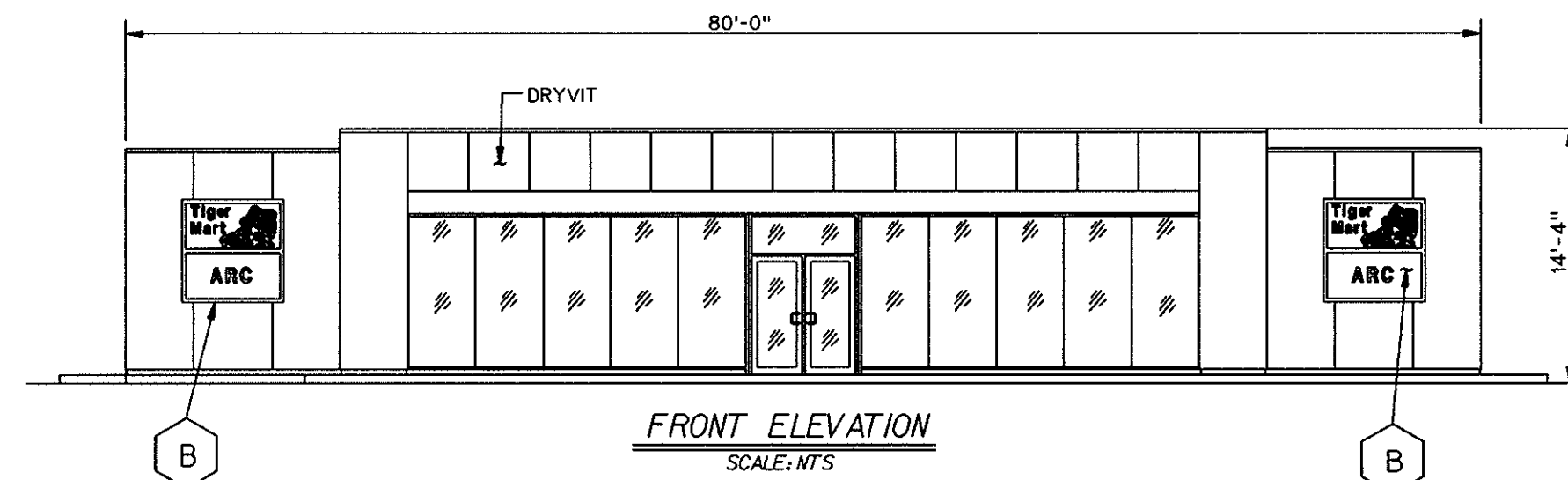
A PROPOSED FASCIA SIGN - 30.41 SQ.FT.  
INTERNALLY ILLUMINATED SINGLE FACE  
SCALE: NOT TO SCALE



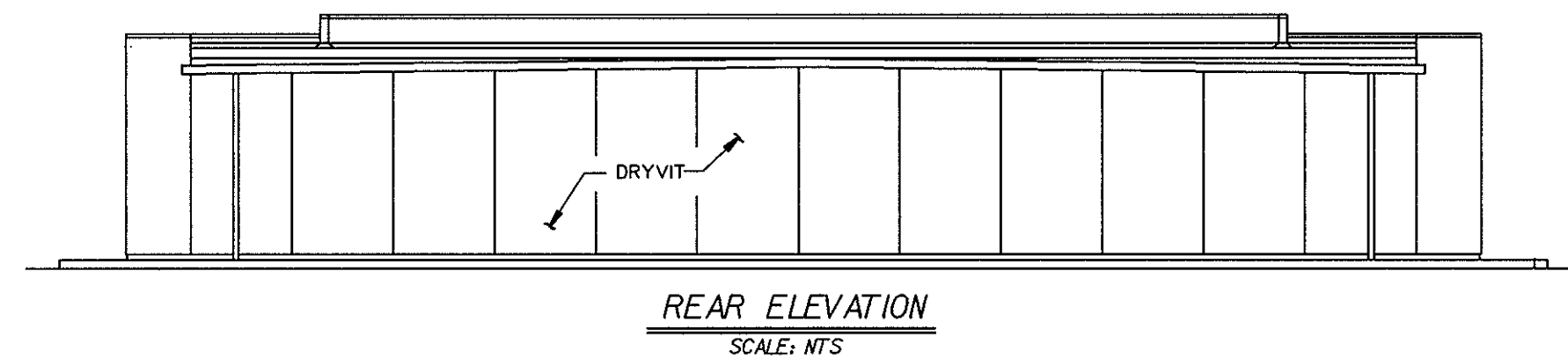
B PROPOSED FRONT BUILDING SIGN - 36.00 SQ.FT.  
INTERNALLY ILLUMINATED SINGLE FACE  
SCALE: NOT TO SCALE



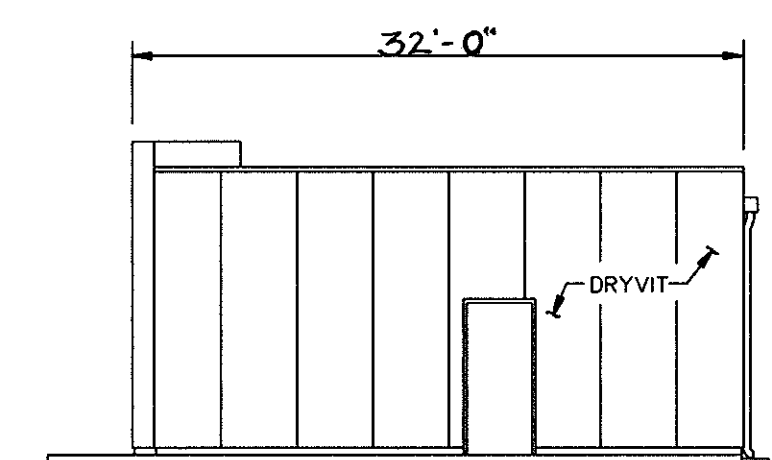
C PROPOSED WASH SIGN - 25.16 SQ.FT.  
INTERNALLY ILLUMINATED SINGLE FACE  
SCALE: NOT TO SCALE



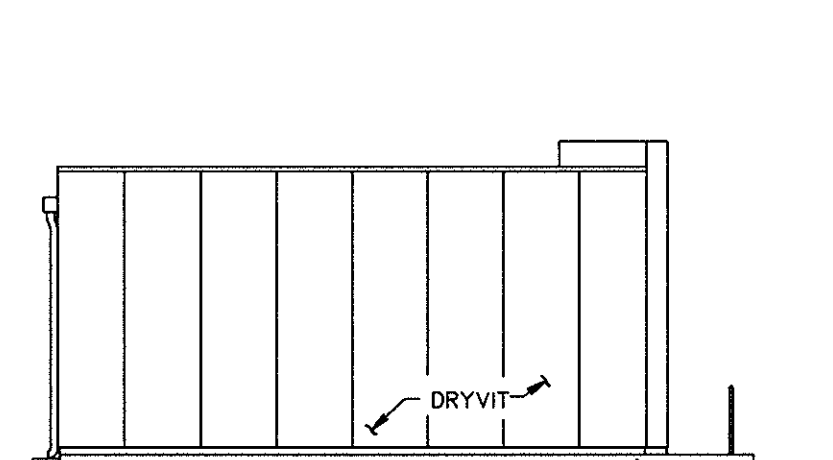
FRONT ELEVATION  
SCALE: NTS



REAR ELEVATION  
SCALE: NTS



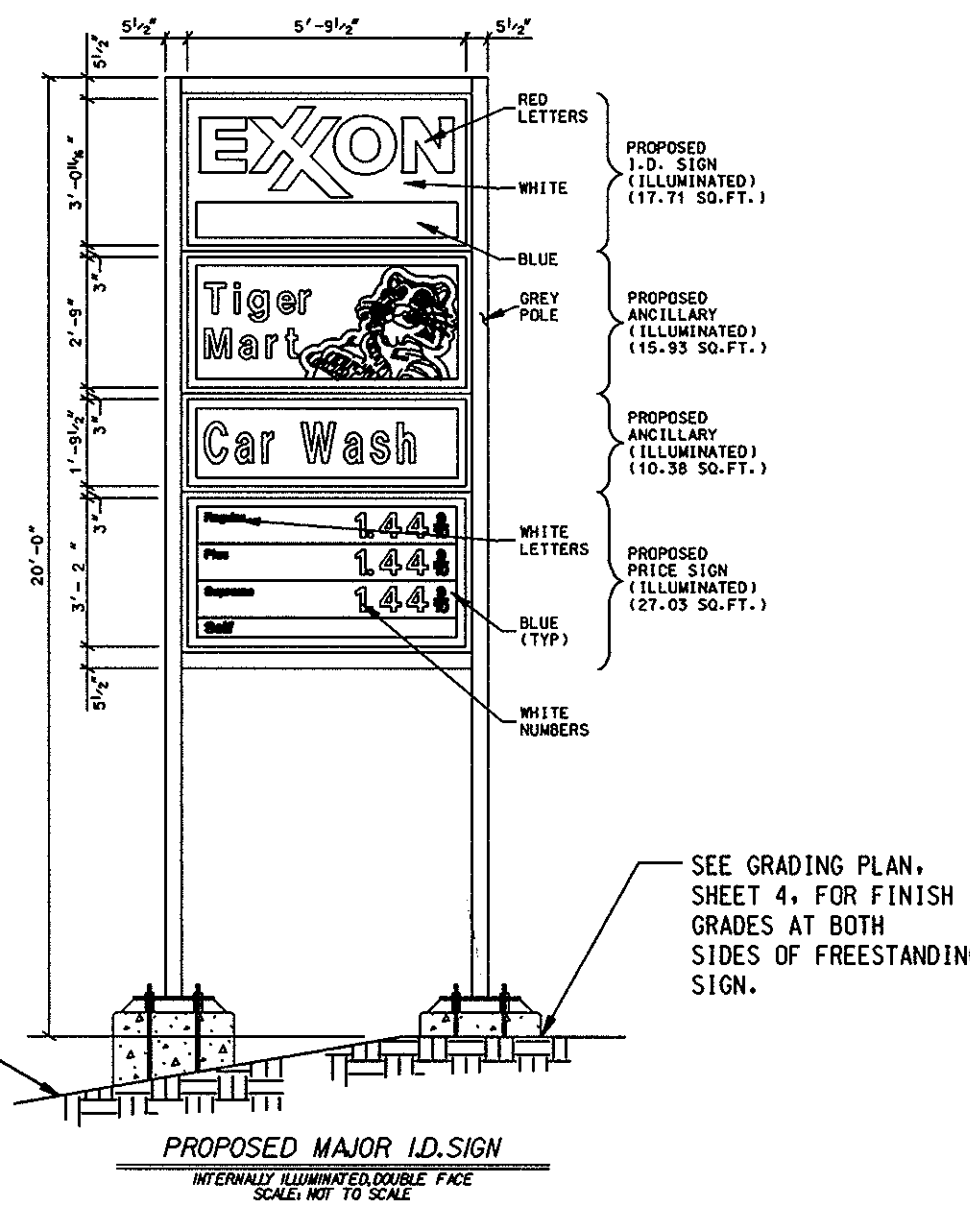
RIGHT ELEVATION  
SCALE: NTS



LEFT ELEVATION  
SCALE: NONE

CONVENIENCE STORE ELEVATIONS

NOTE FOR DOWNHILL FOUNDATION: SQUARE FOUNDATION TO BE EXTENDED TO ACCOUNT FOR CROSS-SLOPE UNDER SIGN. BEGIN ROUND FOUNDATION 6" BELOW GRADE. PER DRAWING 1100-10. TOPS OF BOTH FOUNDATIONS TO BE AT EQUAL ELEVATION.



PROPOSED MAJOR ID SIGN  
INTERNALLY ILLUMINATED SINGLE FACE  
SCALE: NOT TO SCALE

SIGNAGE CALCULATIONS

- A. ALLOWABLE SITE SIGNAGE:
- 1. TOTAL ALLOWABLE SITE SIGNAGE AREA:
    - 2 SQ.FT. X 80' C-STORE FRONTAGE = 160.00 SQ. FT.
    - 2 SQ.FT. X 25' CARWASH FRONTAGE = 50.00 SQ. FT.
    - TOTAL ALLOWABLE SITE SIGNAGE = 210.00 SQ. FT.
  - 2. FREESTANDING SIGN AREA: 1 50 FT X 40 SETBACK = 45.00 SQ. FT.
  - 3. FREESTANDING SIGN HEIGHT: 1' FOR EACH 2 FEET THE SIGN IS SETBACK FROM THE ROAD RIGHT-OF WAY = 22.50 FT.
  - 4. PRICE SIGNS: (MAXIMUM ALLOWED WITHOUT COUNTING TOWARDS SIGN AREA) = 32.00 SQ. FT.
- B. PROPOSED SIGNAGE:
- 1. BUILDINGS:
    - A. CONVENIENCE STORE "TIGER MART" AND "ARC" (2) = 72.00 SQ. FT.
    - B. CARWASH "WASH" = 25.16 SQ. FT.
    - C. CANOPY "EXXON" 2 X 30.41 SQ. FT. = 60.82 SQ. FT.
    - TOTAL BUILDING SIGN AREA: = 157.98 SQ. FT.
  - 2. FREESTANDING SIGN:
    - A. "EXXON" ID SIGN = 17.71 SQ. FT.
    - B. "TIGER MART" = 15.93 SQ. FT.
    - C. "CAR WASH" = 10.38 SQ. FT.
    - TOTAL FREESTANDING SIGN AREA: = 44.02 SQ. FT.
  - 3. TOTAL PROPOSED ON-SITE SIGNAGE: = 202.00 SQ. FT.

DATE:	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION
		CHIEF-DIVISION OF LAND DEVELOPMENT
		DIRECTOR

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

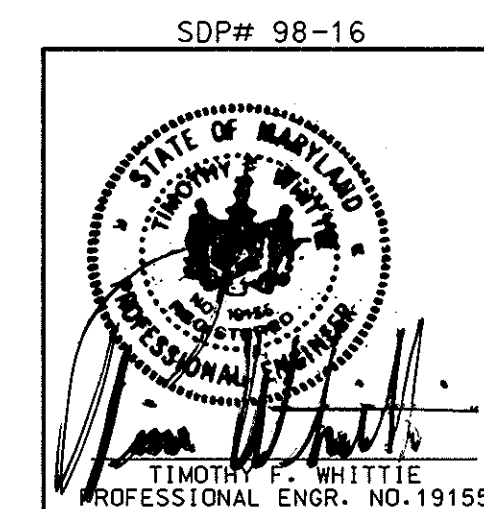
Joyce M. Boyd, M.D., County Health Officer  
5/15/98 DATE

OWNER: EXXON PIPELINE COMPANY  
800 BELL STREET  
HOUSTON, TEXAS 77002

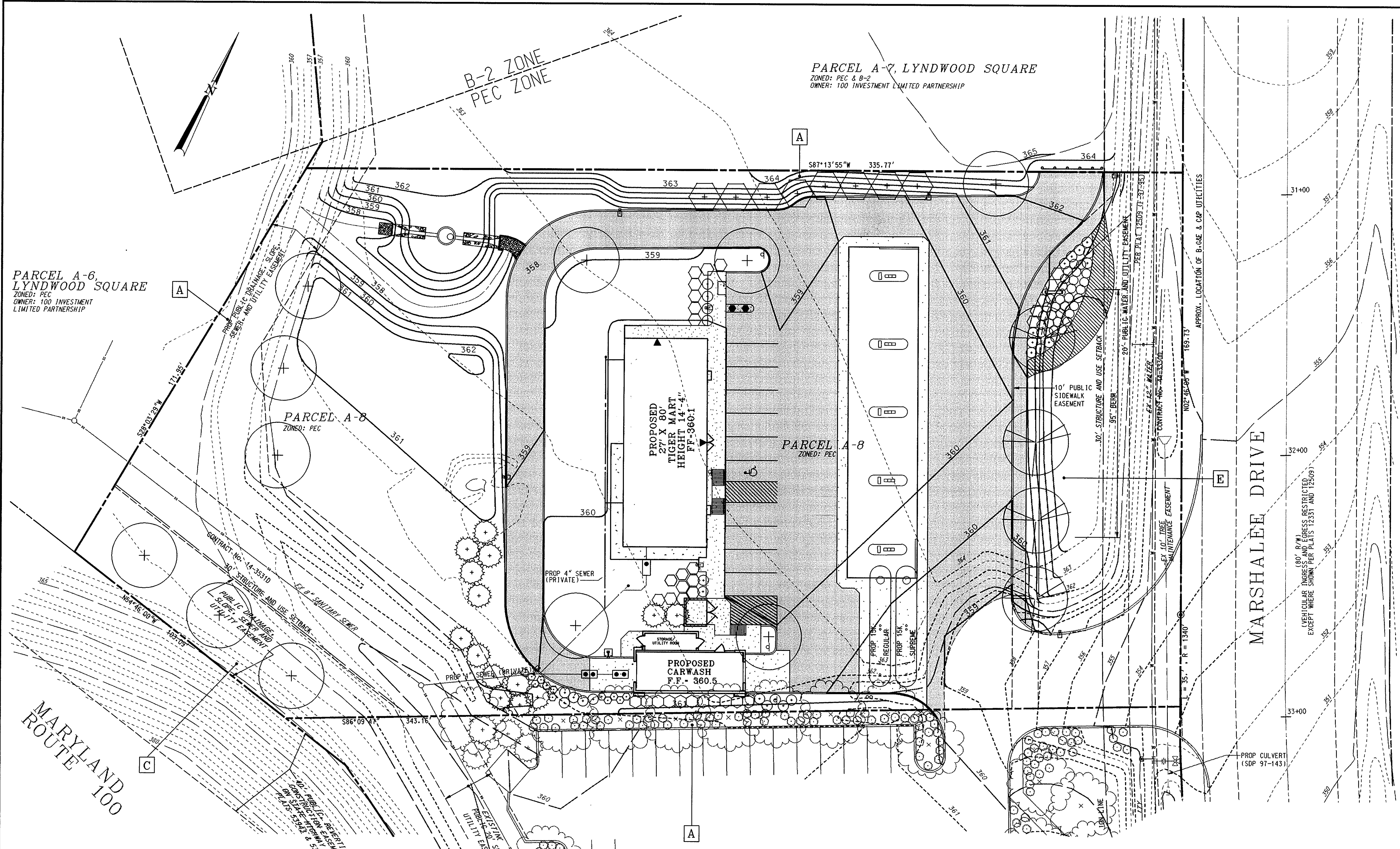
DEVELOPER: EXXON CORPORATION  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. ROBERT CASERTA  
PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES, INC.  
ENGINEERS \* ARCHITECTS \* SURVEYORS  
P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243  
FWA JOB NUMBER 96316 FWA DRAWING FILE NAME PE8LDC.DGN

BUILDING AND SIGNAGE PLAN  
FOR AN EXXON STATION AT  
PARCEL A-8, LINDWOOD SQUARE  
6070 MARSHALEE DRIVE, ELK RIDGE, MD. 21227  
FIRST ELECTION DISTRICT HOWARD COUNTY, MD.  
TAX MAP 37, GRID 16, P. 687 CENSUS TRACT NO.: 6011  
WATER CODE 004 SEWER CODE 2610400  
DESIGN BY: JBG SCALE: AS SHOWN RAS NO. 2-0352  
DRAWN BY: LCF DATE: 03/30/98 DRAWING NUMBER  
CHECKED BY: JBG APPROVED: 10 OF 12



SDP# 98-16



SCHEDULE A PERIMETER LANDSCAPE EDGE			
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	
LANDSCAPE TYPE	C	E	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	103'	173'	852'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NONE	NONE	NONE
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NONE	95' BERM (ELEV. 364+)	NONE
NUMBER OF PLANTS REQUIRED	1:40 = 3 SHADE TREES 1:20 = 6 EVERGREEN TREES SHRUBS	1:40 = 5 SHADE TREES 1:20 = 10 EVERGREEN TREES SHRUBS	1:60 = 15 SHADE TREES 1:20 = 30 EVERGREEN TREES SHRUBS
NUMBER OF PLANTS PROVIDED	3 SHADE TREES 6 EVERGREEN TREES 0 OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	5 SHADE TREES 0 EVERGREEN TREES 0 OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	3 SHADE TREES 6 EVERGREEN TREES 0 OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)

COMMENTS

NOTE: COMPLEX PROJECTS MAY REQUIRE EXPANSION OF THE SCHEDULE TO ACCOMMODATE MULTIPLE LAND USES ON-SITE OR ON ADJACENT PROPERTIES.

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	12
NUMBER OF TREES REQUIRED	1
NUMBER OF TREES PROVIDED	1
SHADE TREES	1
OTHER TREES (2:1 SUBSTITUTION)	0

- ### GENERAL PLANTING NOTES
- ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL NURSERY GROWN IN ACCORDANCE WITH THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION.
  - ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS.
  - CONTRACTOR AND OWNER'S REPRESENTATIVE SHALL VERIFY THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO INSTALLATION OF ANY PLANT MATERIALS.
  - PLANT MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
  - ALL PLANT BEDS AND PLANTING AREAS TO BE MULCHED TO A DEPTH OF 3" UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.
  - ALL AREAS DISTURBED BY PLANTING OPERATION SHALL BE FINE GRADED AND SODDED.
  - OBTAIN APPROVAL FROM ARCHITECT'S OR OWNER'S REPRESENTATIVE BEFORE MAKING ANY SUBSTITUTE OR CHANGES.
  - ALL PLANT BEDS SHALL BE CONTAINED WITH A SPADED EDGE UNLESS OTHERWISE NOTED ON DRAWINGS.
  - QUANTITIES SHOWN ON PLANT LIST ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY AND ARE NOT GUARANTEED TO BE ACCURATE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLAN AND THE QUANTITIES SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL APPLY.
  - J. THIS PLAN FOR LANDSCAPING HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124, AND THE LANDSCAPE MANUAL. THE REQUIRED SURETY IN THE AMOUNT OF \$3,400.00 WILL BE PROVIDED AS PART OF THE DEVELOPER'S AGREEMENT.

DATE	NUMBER	REVISION DESCRIPTION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 5/10/98 DATE

CHIEF-DEVELOPMENT ENGINEERING DIVISION

*[Signature]* 6/11/98 DATE

CHIEF-DIVISION OF LAND DEVELOPMENT

*[Signature]* 6/12/98 DATE

DIRECTOR

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

*[Signature]* 5/15/98 DATE

COUNTY HEALTH OFFICER

OWNER

EXXON PIPELINE COMPANY

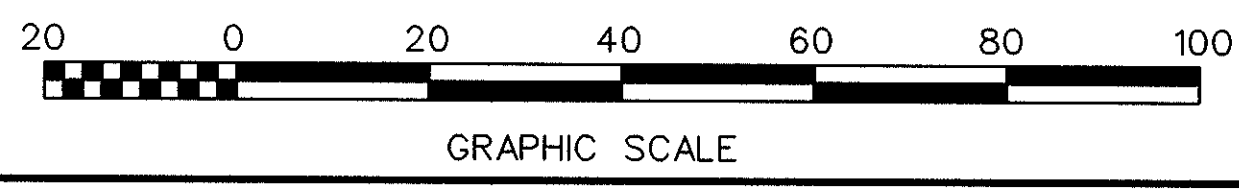
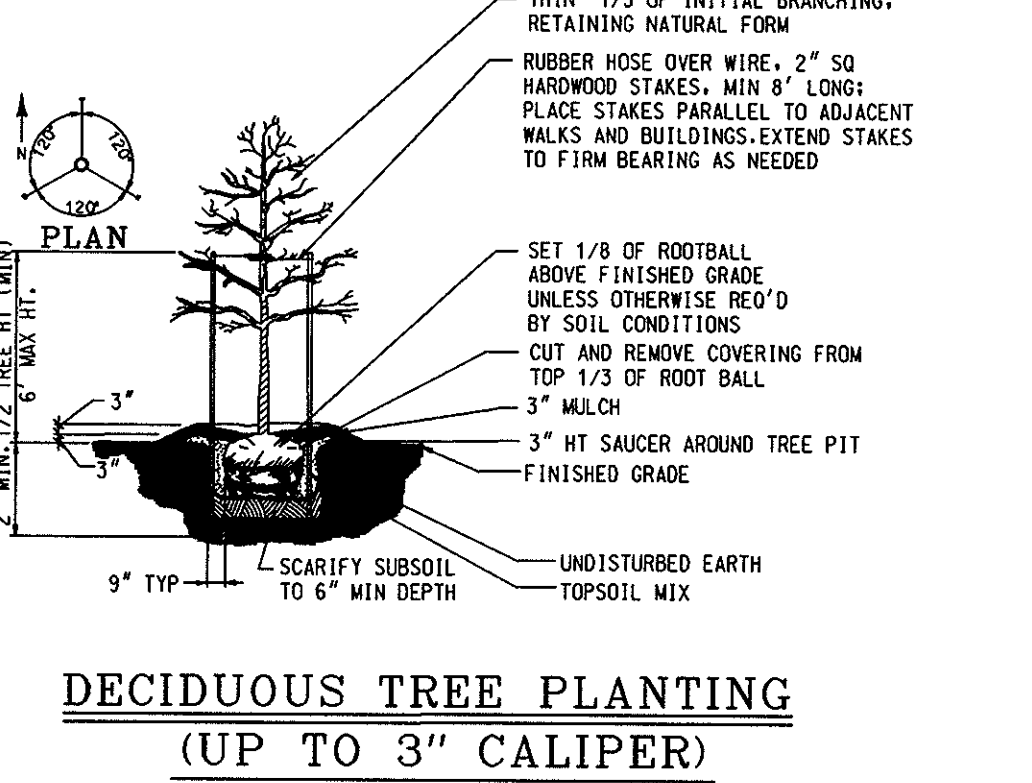
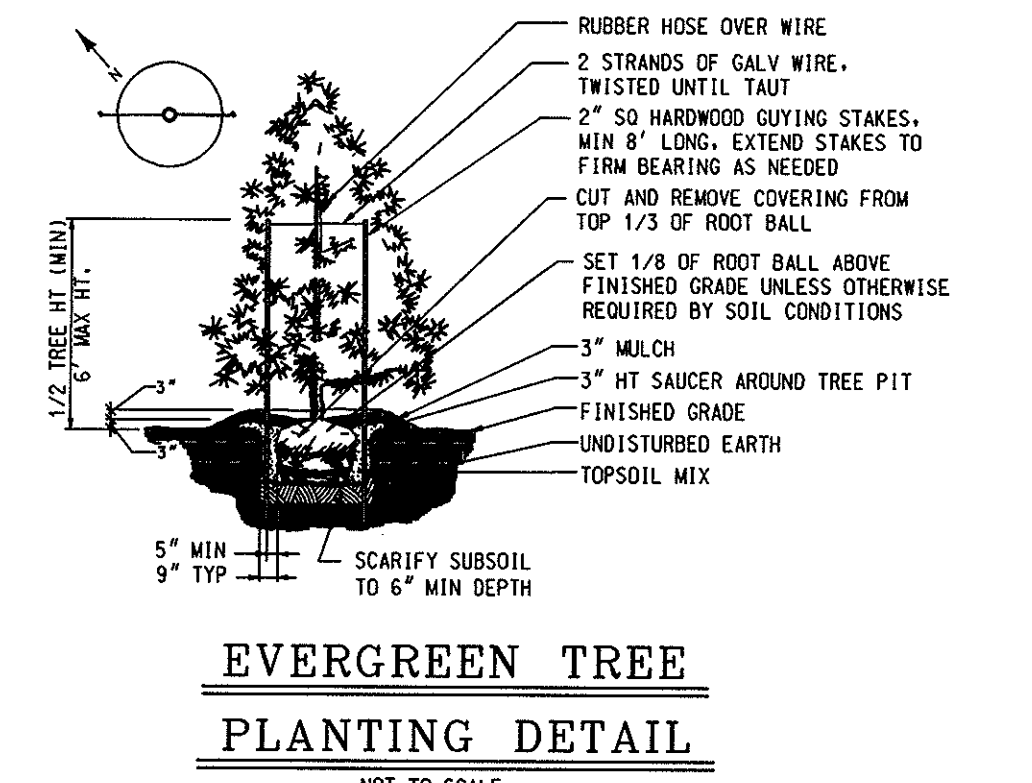
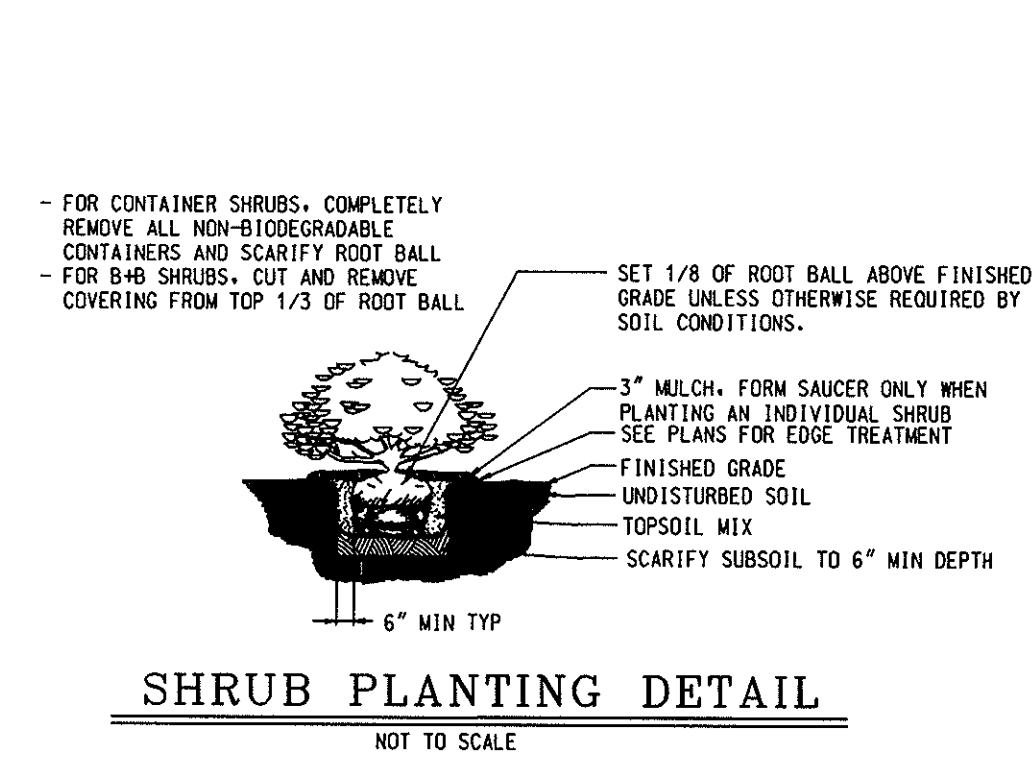
800 BELL STREET  
HUBSTON, TEXAS 71002

DEVELOPER

EXXON CORPORATION

6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. ROBERT CASERTA  
PHONE: (301)-513-7511

LANDSCAPE PLANTING SCHEDULE				
SYMBOL	QTY.	BOTANICAL/Common NAME	SIZE	REMARKS
(+)	11	TILIA CORDATA LITTLELEAF LINDEN	2-2 1/2" CAL 12' - 14' HT	B & B FULL AS SHOWN
(/)	4	ACER RUBRUM OCTOBER GLORY OCTOBER GLORY MAPLE	2-2 1/2" CAL 12' - 14' HT	B & B FULL 35' DC
(+)	8	CRATAEGUS PHAENOPYRUM WASHINGTON HAWTHORN	6' - 8' HT 1 1/2" - 1 3/4" CAL	B & B FULL 12' DC
(+)	14	PINUS STROBUS WHITE PINE	6' - 7' HT	B & B FULL 10' DC
(+)	21	VIBURNUM DILATATUM LINDEN VIBURNUM	3' - 4' HT 3' - 4' SPD	B & B FULL 4' DC
(+)	30	JUNIPERUS SARGENTII SARGENT JUNIPER	15" - 18" HT 2" - 2 1/2" SPD	B & B FULL 3' DC
(/)	100	IMPATIENS RED AND WHITE BLOOM	4" POT	CONT 8" DC
(+)	12	RHODODENDRON OBTUSUM "MOTHER'S DAY" MOTHER'S DAY RED AZALEA	18" - 24" HT 18" - 24" SPD	CONT FULL 3' DC
(+)	27	ILEX GLABRA "COMPACTA" INKBERRY	2 1/2" - 3" HT 2 1/2" - 3" SPD	B & B FULL 4' DC



SDP# 98-16

4/17/98 DATE

TIMOTHY E. WHITTE  
PROFESSIONAL ENGR. NO. 19155

FREDERICK WARD ASSOCIATES, INC.  
ENGINEERS • ARCHITECTS • SURVEYORS

P.O. BOX 727, 5 SOUTH MAIN STREET, BEL AIR, MARYLAND 21014  
PHONE: (410) 879-2090 (410) 838-7900 FAX: (410) 893-1243  
FPA JOB NUMBER 98316 FPA DRAWING FILE NAME PELAND.DGN

LANDSCAPE PLAN  
FOR AN EXXON STATION AT  
PARCEL A-B, LYNWOOD SQUARE  
6070 MARSHALEE DRIVE, ELKRIE, MD. 21227

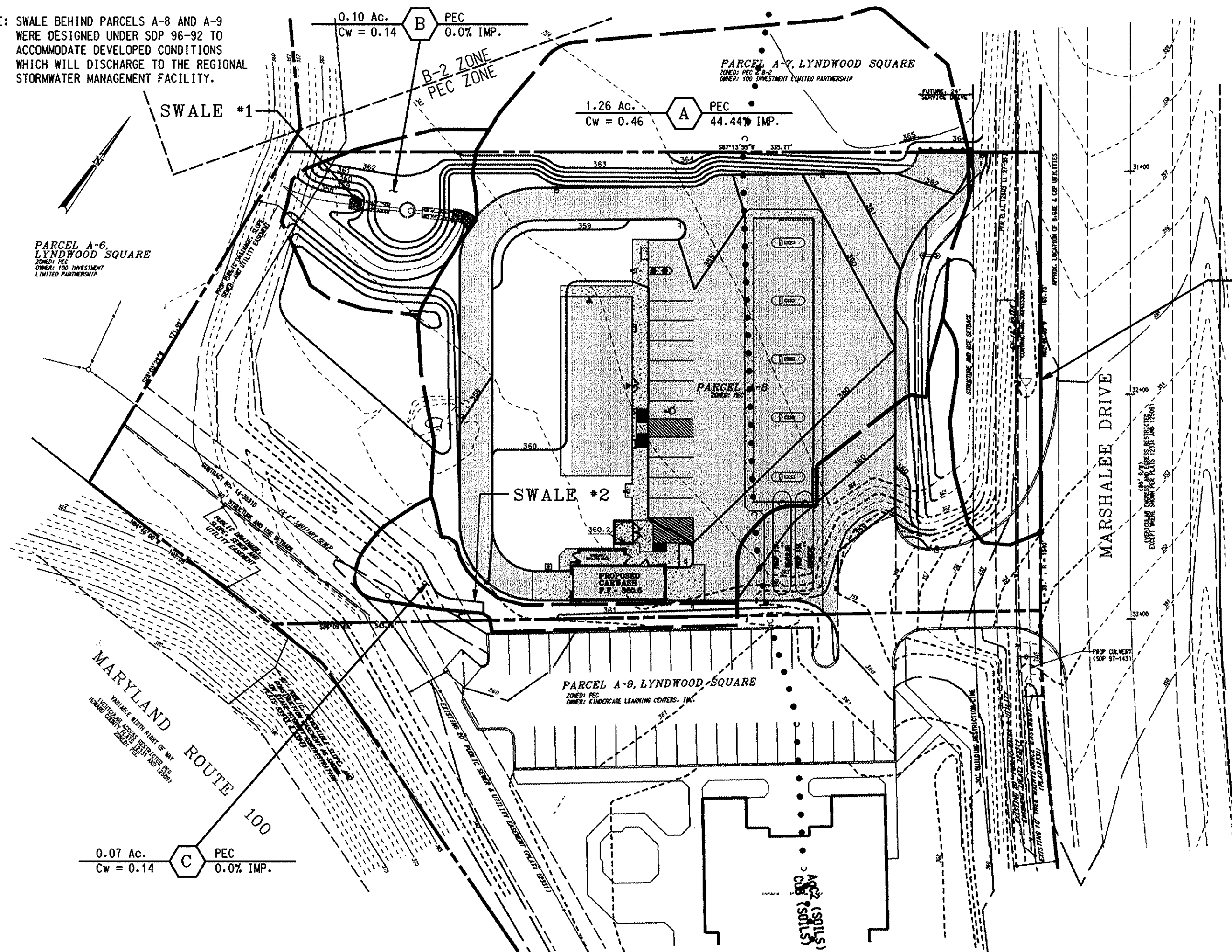
FIRST ELECTION DISTRICT  
TAX MAP 37, GRID 16, P. 687  
WATER CODE D04

HOWARD COUNTY, MD.  
CENSUS TRACT NO.: 6011  
SEWER CODE 2610400

DESIGN BY: JBG SCALE: 1" = 20' RAS NO.: 2-0352  
DRAWN BY: JJ/LF DATE: 03/30/98 DRAWING NUMBER  
CHECKED BY: JBG APPROVED: 11 OF 12

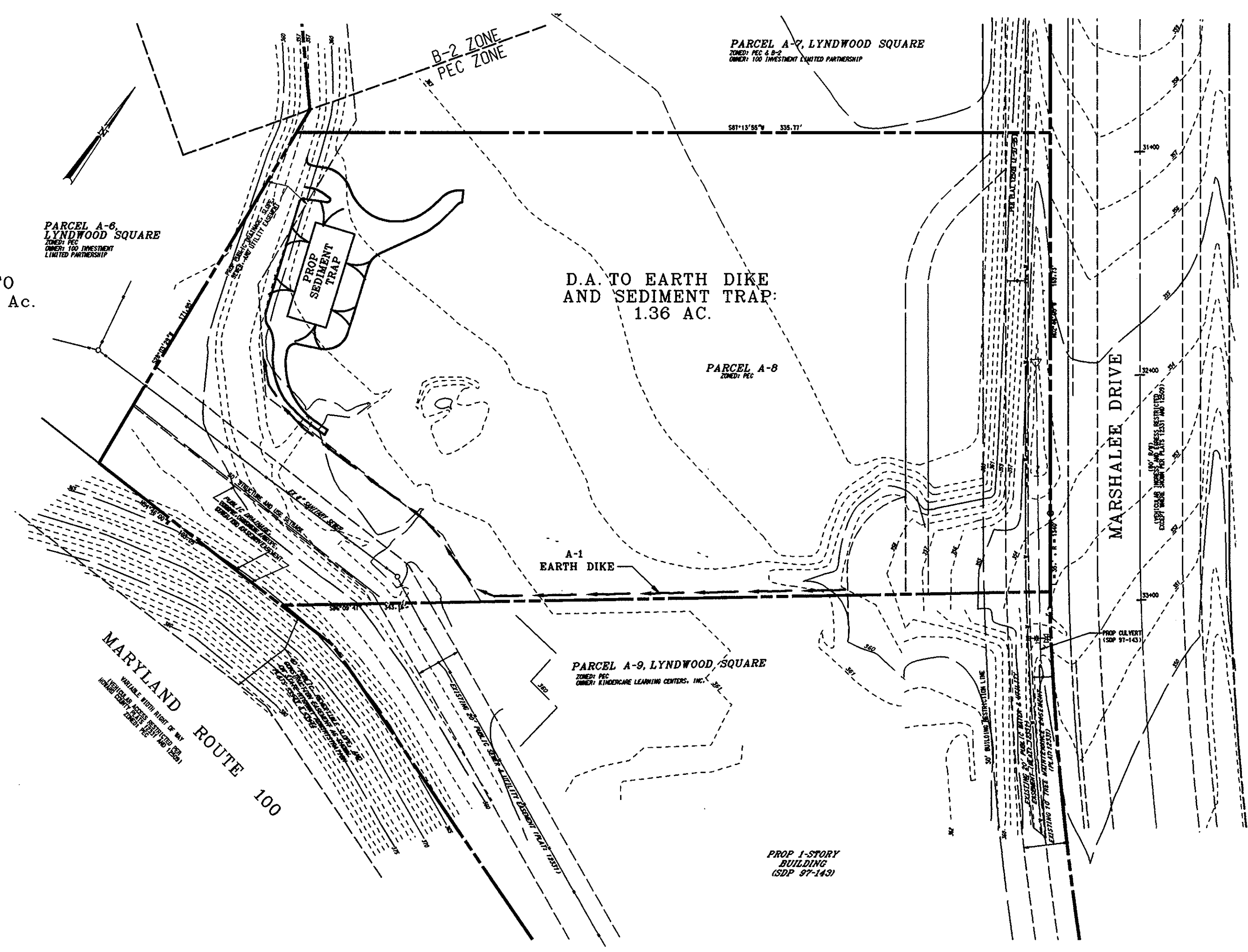
FPA FILE NO./PROJECTS/98316/ENGR./PELAND.DGN 0397

NOTE: SWALE BEHIND PARCELS A-8 AND A-9 WERE DESIGNED UNDER SDP 96-92 TO ACCOMMODATE DEVELOPED CONDITIONS WHICH WILL DISCHARGE TO THE REGIONAL STORMWATER MANAGEMENT FACILITY.



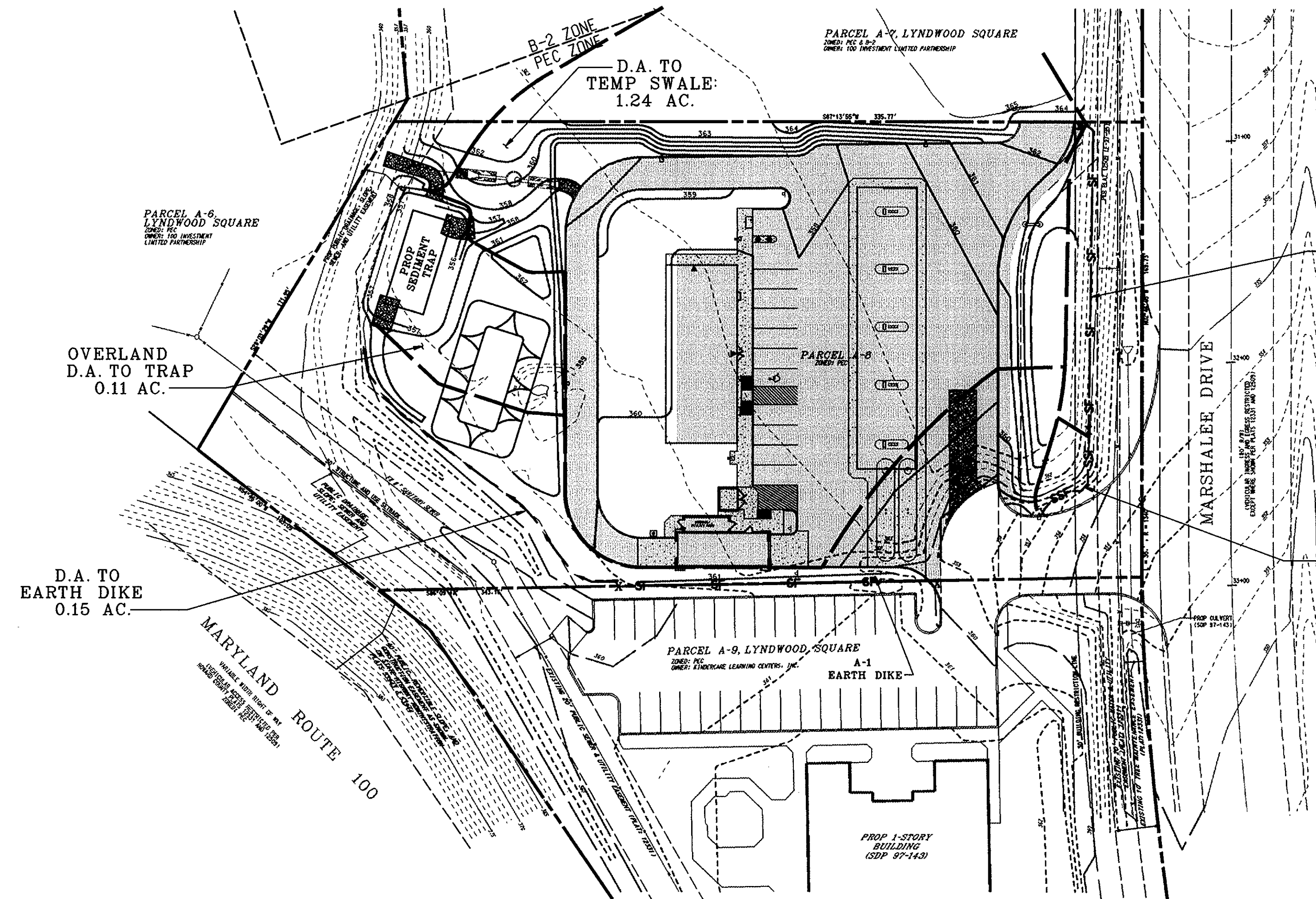
POST-DEVELOPMENT CONDITION  
DRAINAGE AREA MAP

ON-SITE AREA DRAINING TO PROPOSED CULVERT - 0.14 AC.



PRE-DEVELOPMENT CONDITION  
DRAINAGE AREA MAP

**SOILS INFORMATION**  
 Ag2: Auro gravelly loam - Hydrologic Group B  
 CUB: Contus silt loam - Hydrologic Group B  
 Source: Howard County Soil Survey, Map 25



SEDIMENT CONTROL MEASURES  
DRAINAGE AREA MAP

D.A. TO SILT FENCE  
0.04 AC.

D.A. TO SUPER SILT FENCE  
0.04 AC.

- LEGEND**
- GRASS AREA
  - IMPERVIOUS AREA
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - DRAINAGE DIVIDE LINE
  - SOILS GROUP DIVIDE LINE

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION
5/2/98		DATE
		APPROVED: DIVISION OF LAND DEVELOPMENT
6/11/98		DATE
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
		HOWARD COUNTY HEALTH DEPARTMENT
5/15/98		DATE
		OWNER: EXXON PIPELINE COMPANY
		200 BELL STREET
		HOUSTON, TEXAS 77002
		DEVELOPER: EXXON CORPORATION
		6301 IVY LANE
		SUITE 700
		GREENBELT, MARYLAND 20770
		ATTN: MR. ROBERT CASERTA
		PHONE: (301)-513-7511

SDP# 98-16

4/17/98  
DATE

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 FWA JOB NUMBER 98316 FWA DRAWING FILE NAME: PEDRAN.DGN

**DRAINAGE AREA MAP**  
 FOR AN EXXON STATION AT  
 PARCEL A-8, LYNDWOOD SQUARE  
 6070 MARSHALEE DRIVE, ELKCRIDGE, MD. 21227

FIRST ELECTION DISTRICT: TAX MAP 37, GRID 16, P. 687 WATER CODE D04 HOWARD COUNTY, MD. CENSUS TRACT NO.: 6011 SEWER CODE 2610400

DESIGN BY: JBG	SCALE: 1" = 40'	RAS NO.: 2-0352
DRAWN BY: JJ/LF	DATE: 03/30/98	DRAWING NUMBER
CHECKED BY: JBG	APPROVED: .	12 OF 12