

**GENERAL NOTES**

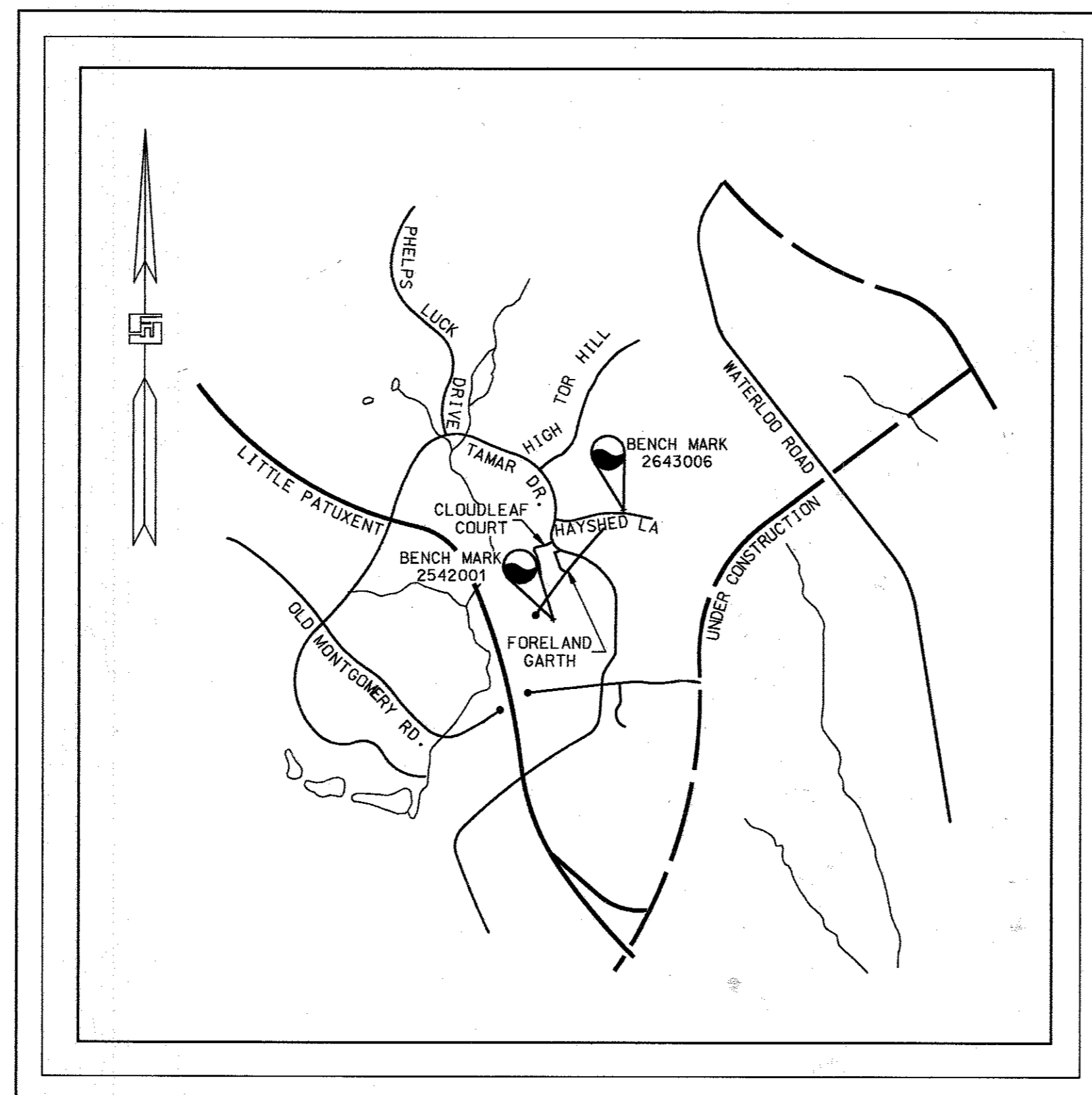
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION LATEST EDITION" AND MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE LOCATION AND ELEVATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR 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  
 C&P TELEPHONE CO. 725-9976  
 HOWARD COUNTY BUREAU OF UTILITIES 313-2366  
 AT&T CABLE LOCATION DIVISION 393-3553  
 BGE 685-0123  
 NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION AT LEAST 48 HOURS PRIOR TO START (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.
- THE STORMWATER MANAGEMENT FOR THIS PARCEL WAS CONSTRUCTED UNDER PROJECT F-82-96. (FOR QUANTITY MANAGEMENT ONLY.)
- THE STORMWATER QUALITY MANAGEMENT AND WATER QUALITY STRUCTURE WILL BE PRIVATELY OWNED AND MAINTAINED.
- SECTION 404 OF THE MD DEPARTMENT OF NATURAL RESOURCES DOES NOT APPLY NOR ARE ANY WETLANDS PERMITS REQUIRED FOR THIS PROJECT.
- ALL WASTE MATERIAL WHICH HAS BEEN GENERATED AS A RESULT OF THE CONVENIENCE STORE SHALL BE EITHER STORED ON SITE AND LATER SHIPPED FOR RECYCLING OR PROPERLY DISPOSED OF AT A COUNTY APPROVED LANDFILL.
- ALL DETERGENT USED IN THE CAR WASH FACILITY SHALL BE "PHOSPHATE FREE" AS PER HOWARD COUNTY REGULATIONS.
- PUBLIC WATER AND SEWER WILL BE UTILIZED. A 1" WATER METER SHALL BE LOCATED WITHIN THE CONVENIENCE STORE AND WILL MEET ALL HOWARD COUNTY STANDARDS. ON SITE WATER AND SEWER SHALL BE PRIVATE.
- PLAN FILE REFERENCES: SDP-76-45C, SDP-82-74C.  
 BOARD OF APPEALS - PB CASE #92 ON 2-4-76 RESOLUTION PASSED 3-10-76 TO ALLOW OPERATION OF GASOLINE SERVICE STATION ON NEW TOWN LAND.
- 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 VICINITAL RESIDENTIAL PROPERTIES.
- REVISED TRAFFIC STUDY INCORPORATING PROPOSED SERVICE STATION COMPLETED BY WELLS AND ASSOCIATES, INC. DATED JULY 20, 1992
- WETLANDS STUDY COMPLETED ON MAY 16, 1991 BY EXPLORATION RESEARCH, INC. AT WHICH TIME IT WAS DETERMINED THAT NO (ZERO) NON-TIDAL WETLANDS OCCUR WITHIN THE BOUNDARIES OF THIS SITE.

**SITE ANALYSIS**

- AREA OF PARCEL: 1.407 ACRES, 61,291 SQ.FT.
- ZONING: NEW TOWN EMPLOYMENT CENTER COMMERCIAL  
 a. BOARD OF COUNTY COMM. B.C.C.C. CASE 412 RESOLUTION APPROVED 08/10/1986  
 b. AMENDED Z.B. CASE 507 RESOLUTION APPROVED 11/04/1968  
 c. AMENDED Z.B. CASE 606 RESOLUTION APPROVED 11/22/1972  
 d. AMENDED Z.B. CASE 644 RESOLUTION APPROVED 01/07/1974  
 e. AMENDED Z.B. CASE 693 RESOLUTION APPROVED 12/20/1976
- EXISTING USE: GASOLINE SERVICE STATION (TO CONTINUE)  
 PROPOSED ADDITIONAL USES: CONVENIENCE STORE AND CARWASH
- FLOOR SPACE:  
 a. CONVENIENCE STORE:  
 GROSS AREA: 1,431 SQ.FT.  
 RETAIL AREA: 880 SQ.FT.  
 STORAGE AREA: 551 SQ.FT.  
 b. CAR WASH:  
 GROSS AREA: 756 SQ.FT.
- MAXIMUM NUMBER OF EMPLOYEES: TWO (2)
- PARKING:  
 a. REQUIRED:  
 5 SPACES PER 1,000 SQ FT RETAIL AREA = 1090 SQ.FT. x 5/1,000 = 6 SPACES  
 4 PARKING SPACES FOR GASOLINE SERVICE STATION WITH CAR WASH  
 TOTAL = 10 SPACES  
 b. PROVIDED:  
 11 SPACES (INCLUDING 1 HANDICAPPED SPACE)
- OPEN SPACE (LANDSCAPING)  
 a. REQUIRED 20% FOR ENTIRE SITE : 0.28 AC± OR 12,197 SQ.FT.  
 b. PROVIDED 43% FOR ENTIRE SITE : 0.61 AC± OR 26,490 SQ.FT.
- BUILDING COVERAGE:  
 a. CONVENIENCE STORE : 1,431 SQ.FT.  
 b. CAR WASH : 871 SQ.FT.  
 c. CANOPY : 3,448.75 SQ.FT.  
 d. CANOPY OVERHANG ON CONVENIENCE STORE : 59.07 SQ.FT. (DEDUCT)  
 TOTAL COVERAGE : 5691.68 SQ.FT. (9.29 % COVERAGE)
- CAR WASH STACKING:  
 a. REQUIRED: 15 SPACES  
 b. PROVIDED: 15 SPACES



**6000 FORELAND GARTH  
 COLUMBIA, MARYLAND  
 RAS# 2-7226**



**LOCATION MAP**

SCALE: 1"=1000'

HOWARD COUNTY ADC MAP  
 PAGE NUMBER 15

**BENCHMARK INFORMATION**

- BEARINGS, DISTANCES, AND COORDINATES AS SHOWN HEREON ARE BASED ON PLAT OF SECTION 1, AREA 5, VILLAGE OF LONG REACH, "COLUMBIA", RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN PLAT BOOK NO. 21, FOLIO 82, AND ON THE MARYLAND STATE SYSTEM OF PLANE COORDINATES, AS REFERENCED FROM HOWARD COUNTY SURVEY CONTROL STATIONS:  
 2542001: NORTH 499.539.293 EAST 852.111.258  
 2643006: NORTH 500.984.483 EAST 853.503.747
- ELEVATIONS AS SHOWN HEREON ARE BASED ON HOWARD COUNTY SURVEY CONTROL STATION NO. 2542001, WHICH IS A CONCRETE MONUMENT LOCATED ALONG B.G.&E. TRANSMISSION LINE, APPROXIMATELY 1,060 FEET SOUTHWEST OF DOBBIN ROAD. ELEVATION = 426.971 FEET

**SHEET INDEX**

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	EXISTING SITE AND DEMOLITION PLAN
3	SITE LAYOUT PLAN
4	SITE GRADING PLAN
5	SITE UTILITY AND PIPING PLAN
6	SEDIMENT & EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL NOTES & DETAILS
8	STORM DRAIN, STORMWATER MANAGEMENT & SANITARY SEWER PROFILES
9	STORMWATER MANAGEMENT / STORMCEPTOR DETAILS
10	STORMWATER MANAGEMENT DETAILS
11	BUILDING PLAN
12	SIGNAGE DETAIL SHEET
13	SITE DETAILS
14	LANDSCAPE PLAN
15	LANDSCAPE DETAILS
16	DRAINAGE AREA MAPS

FOR REVISION #3 ONLY  
 SW INCORPORATED



SDP-95-117

**ADDRESS CHART**

PARCEL	STREET ADDRESS
C	6000 FORELAND GARTH

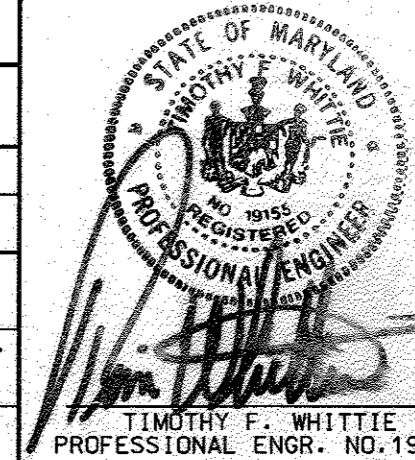
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL NO.
VILLAGE OF LONGREACH	1/5	C

VILLAGE OF LONGREACH	TAX/ZONE	ELECT. DIST.	CENSUS TR.
PLAT NO. P.B. 21 F. 82	12	36	6

WATER CODE	SEWER CODE
400	933100

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9/13/95

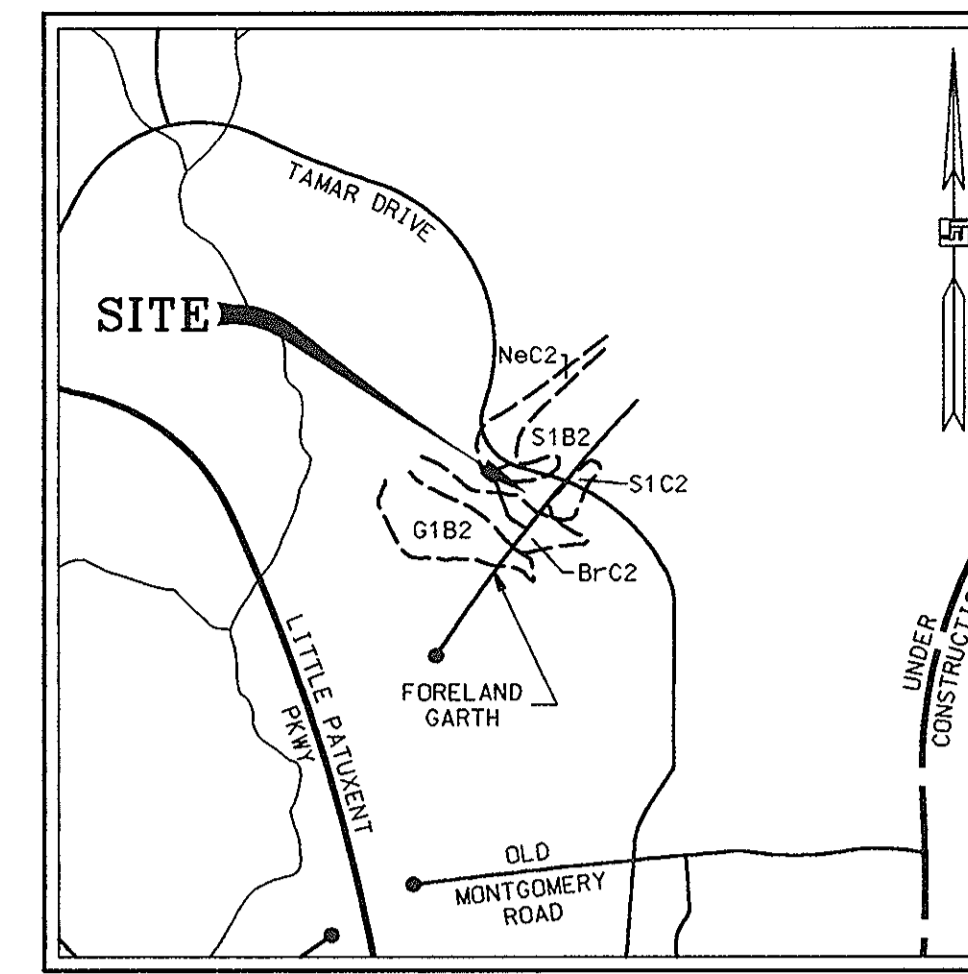
9/5/95  
 DATE



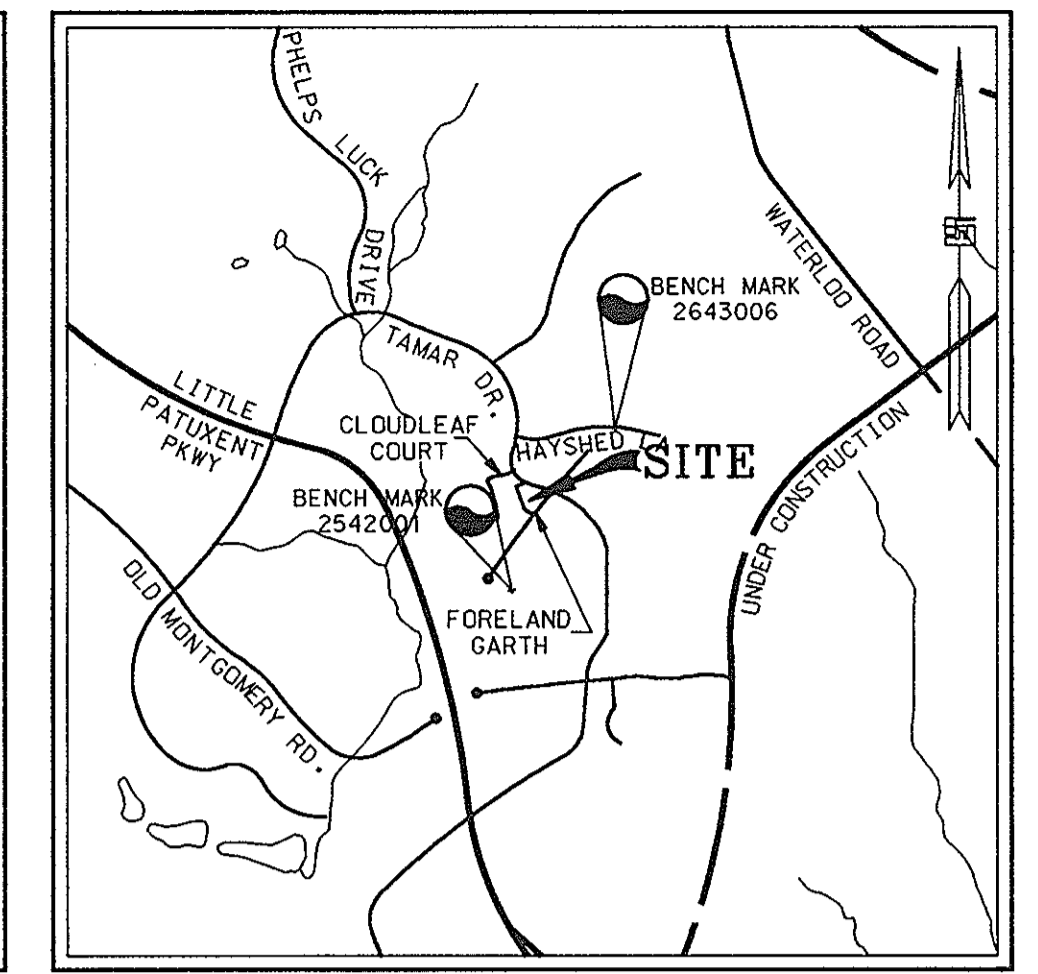
4-18-17	REVISE FUEL TANKS, FUEL DISPENSERS, & ASSOCIATED PIPING (SHEET 1, 2, 3, 4, 5, 6, 10, 11)	
7-25-96	REVISED SHEET 3 TO NOTE PLANNING BOARD APPROVAL FOR USE OF PROPOSED TANK FOR CUMULUS HEAT (RETIL USE)	
DATE:	NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John Deane</i>		11/1/95
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK		DATE
<i>Anna Swannan</i>		11/6/95
CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH		DATE
<i>James Smith</i>		11/6/95
DIRECTOR		DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joyce M. Boyd</i>		11/3/95
COUNTY HEALTH OFFICER		DATE
BY THE ENGINEER:		
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."		
SIGNATURE OF ENGINEER		DATE
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."		
SIGNATURE OF DEVELOPER		DATE
REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.		
<i>Patricia Engle</i>		11/17/95
U.S. SOIL CONSERVATION SERVICE		DATE
THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.		
<i>John R. Colston</i>		10/27/95
HOWARD S.C.D.		DATE
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193		
DEVELOPER: EXXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511		
FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090		
FVA JOB NUMBER 03288 FVA DRAWING FILE NAME C0711.01		
AREA: VILLAGE OF LONG REACH SECTION 1 AREA 5 TAX MAP 36 PARCEL C 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: FOR AN EXXON STATION AT PARCEL C COVER SHEET		
DESIGN BY: JBG	SCALE: AS SHOWN	PROJECT NO.:
DRAWN BY: MSM	DATE: 03/08/1995	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	01 OF 16

SDP-95-117

LONG REACH VILLAGE CENTER, INC.  
 LIBER 1034, FOLIO 161  
 PARCEL "B", SECTION 1, AREA 5  
 VILLAGE OF LONG REACH - COLUMBIA  
 PLAT BOOK No. 21, FOLIO 82



SOILS MAP  
 SCALE: 1" = 1000'



VICINITY MAP  
 SCALE: 1" = 2000'

DEMOLITION 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 EQUIPMENT, SIGNS, AND ITEMS TO BE REMOVED OR RETAINED PRIOR TO THE START OF DEMOLITION.
3. CONTRACTOR SHALL TRANSPORT EQUIPMENT, AS DESIGNATED BY EXXON FIELD ENGINEER, TO A LOCAL EXXON INVENTORY STORAGE AREA.
4. CONTRACTOR MUST ADHERE TO ALL SAFETY REGULATIONS GIVEN BY O.S.H.A., EXXON, AND HOWARD COUNTY.
5. REFER TO DRAWING SHEET #6 AND #7 FOR SEDIMENT CONTROL DEVICES REQUIRED TO BE IN PLACE PRIOR TO DEMOLITION WORK.
6. ALL DEMOLISHED MATERIAL TO BE REMOVED TO AN APPROVED LOCATION.
7. EXISTING SEWER AND WATER CONNECTIONS TO BE ABANDONED IN ACCORDANCE WITH HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
8. ALL UTILITIES AND STRUCTURES WITHIN PUBLIC RIGHTS-OF-WAY SHALL REMAIN UNLESS OTHERWISE NOTED.
9. 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.
10. REFER TO DRAWING SHEET 5 FOR GENERAL NOTES PERTAINING TO UTILITIES.

LEGEND

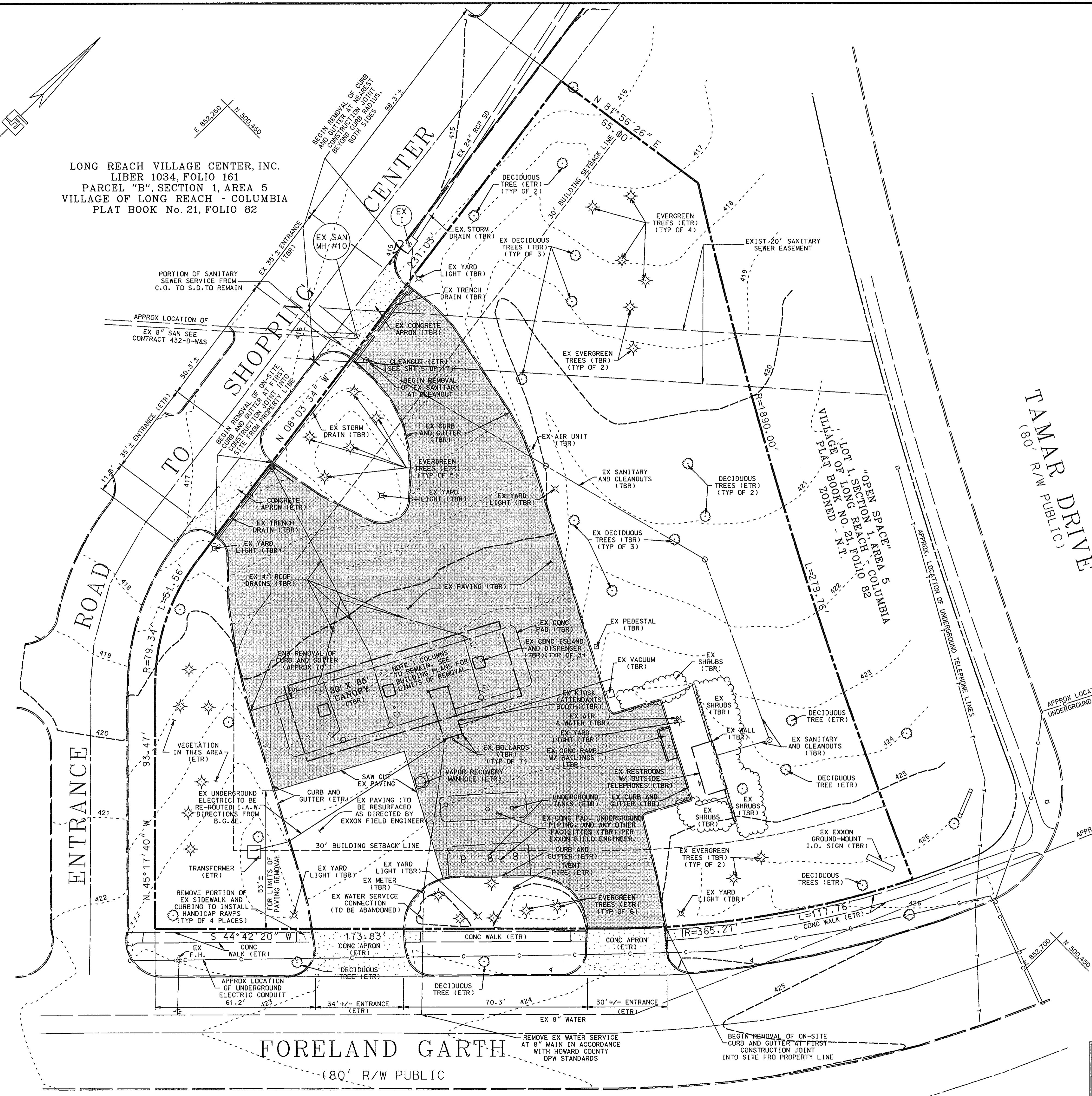
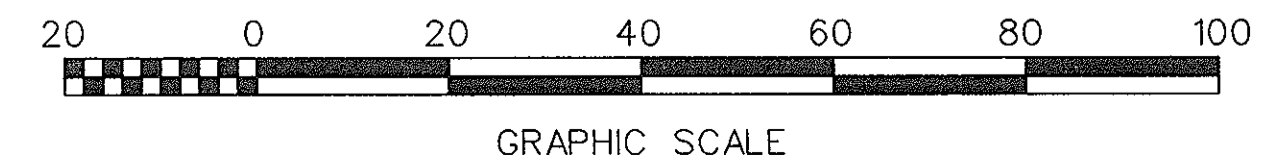
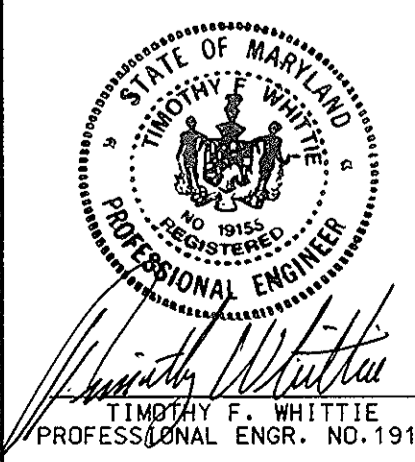
	STORM DRAIN
	SANITARY SEWER
	WATER MAIN
	TELEPHONE CONDUIT
	ELECTRIC CONDUIT
	EX.DECIDUOUS TREE
	EX.EVERGREEN TREE
	EX.SHRUB
	EX.MONITORING WELL
	EX.FILL CAP
	TO BE REMOVED
	EXISTING TO REMAIN
	PAVING TO BE REMOVED OR MILLED

SDP-95-117  
 PLANNING BOARD APPROVAL  
**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9/13/95

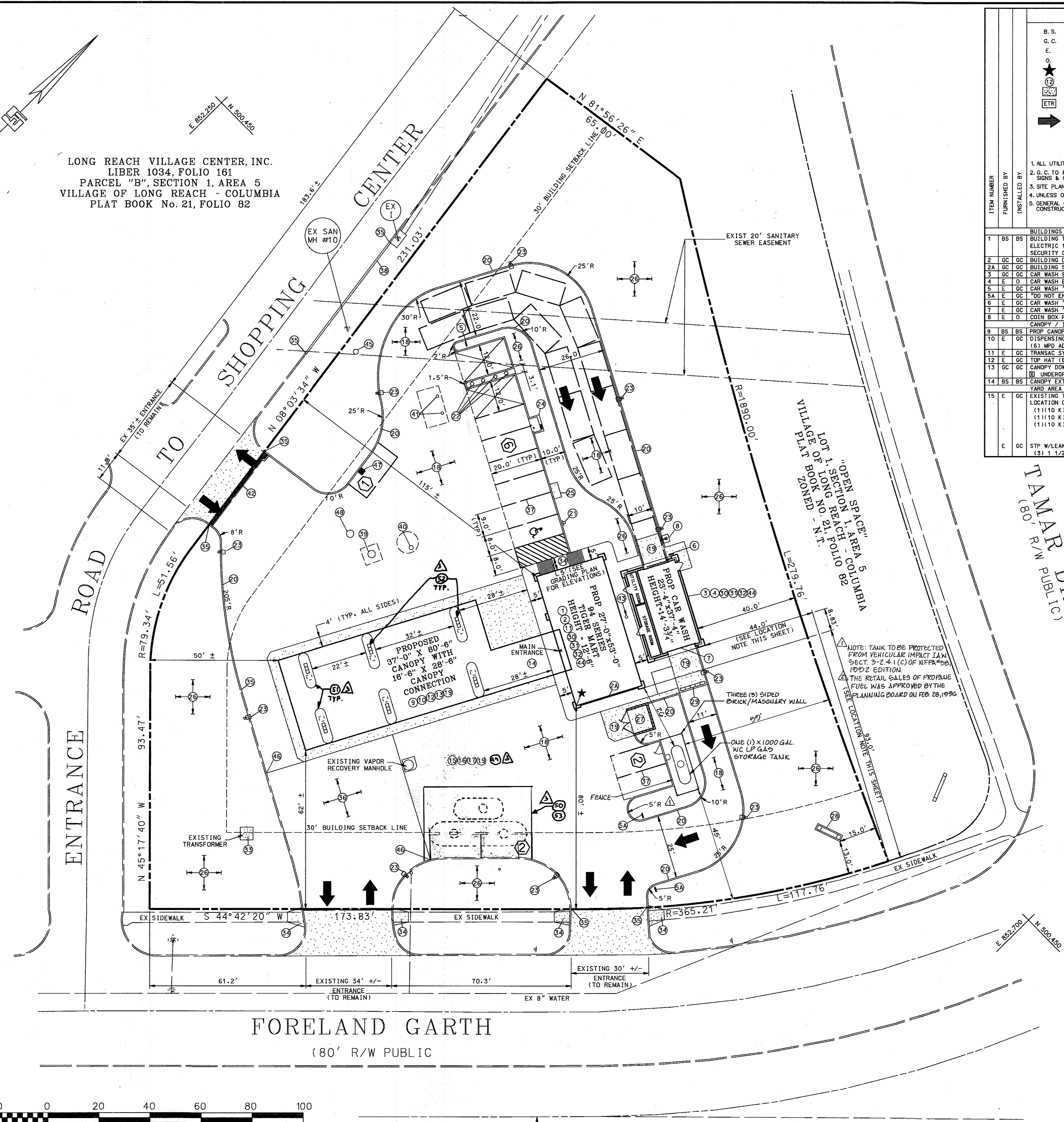
DATE:	NUMBER:	REVISION DESCRIPTION:
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John P. ...</i>	11/1/95	DATE
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK		
<i>Gina ...</i>	11/16/95	DATE
CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH		
<i>...</i>	11/2/95	DATE
DIRECTOR		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joyce M. Boyd</i>	11/3/95	DATE
COUNTY HEALTH OFFICER		
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193		
DEVELOPER: EXXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511		

<b>FREDERICK WARD ASSOCIATES INC.</b> ENGINEERS ARCHITECTS SURVEYORS		
5 SOUTH MAIN STREET BEL. AR. MARYLAND 21014 (410)879-2090		
FWA JOB NUMBER 93288	FWA DRAWING FILE NAME CODE0002	
AREA: VILLAGE OF LONG REACH SECTION 1 AREA 5 TAX MAP 36 PARCEL C 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: FOR AN EXXON STATION AT PARCEL C EXISTING SITE AND DEMOLITION PLAN		
DESIGN BY: JBG	SCALE: 1" = 20'	PROJECT NO.:
DRAWN BY: MSM	DATE: 04/26/1995	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	02 OF 16

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



LONG REACH VILLAGE CENTER, INC.  
 LIBER 1034, FOLIO 181  
 PARCEL "B", SECTION 1, AREA 5  
 VILLAGE OF LONG REACH - COLUMBIA  
 PLAT BOOK No. 21, FOLIO 82



GENERAL NOTES		DRAWING NUMBER	
B.S.	BUILDING SUPPLIER	16	E
G.C.	GENERAL CONTRACTOR	17	GC
E.	EXXON		
★	BUILDING ORIENTATION POINT		
②	IMPROVEMENT ITEM		
Ⓜ	NEW CONCRETE (ON PLANS)		
Ⓜ	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 EXXON 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.			
1	BS BS BUILDING TYPE (27'x53' EXXON SHOP W/3 PHASE ELECTRIC 120/208 SECURITY CASHIER ENCLOSURE (YES <input type="checkbox"/> NO <input type="checkbox"/> NO METAL)		
2	GC GC BUILDING DOWNSPOUTS DRAIN IN UNDERGROUND ABOVE GROUND	SHT 5 OF 16	
2A	GC GC BUILDING SIGN (SPECIAL RAINBOW @ 8'x27' 50'-11")	SHT 12 OF 16	
3	GC GC CAR WASH 90 SERIES W/3 PHASE ELECTRIC 120/208 METAL		
4	E D CAR WASH EQUIPMENT W/ RECLAIM (W) W/O RECLAIM ( )		
5	E GC CAR WASH "ENTER" SIGN	4711A	
5A	E GC "DO NOT ENTER" SIGN	1-7 & SA1	
6	E GC CAR WASH "INSTRUCTION" SIGN	SHTS 12 & 13 OF 16	
7	E GC CAR WASH "BUILDING" SIGN "EXIT" ONLY		
8	E D COIN BOX FOR CAR WASH CANOPY / ISLANDS		
9	BS BS PROP CANOPY (37'x80'-6" W/ 16'-6"x28'-6" CONN.) - NO FASCIA SIGNS		
10	E GC DISPENSING EQUIPMENT (6) MPD ADVANTAGE W/GRIND	2026 1M & 2M	
11	E GC TRANSAC SYSTEM TCR-15 (2 REQUIRED)		
12	E GC TOP HAT (BLANK) (TYP 6)		
13	GC GC CANOPY DOWNSPOUT DRAINS (8) UNDERGROUND ABOVE GROUND	SHT 5 OF 16	
14	BS BS CANOPY EXTENSION (MATCH EX CANOPY IN KIND) YARD AREA - TANKS		
15	E GC EXISTING TANKS FOR MOTOR FUELS LOCATION OF EXISTING FILLS TO REMAIN (1) 110 K) REGULAR (1) 110 K) PLUS (1) 110 K) SUPREME		
E	GC STP W/LEAK DETECTORS (3) 1 1/2 HP		
		7006 F, 1-5 7033, 1	

NOTE: SEE SITE UTILITY AND PIPING PLAN, SHT. 5 OF 17, FOR LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROPOSED STRUCTURES FOR STORMWATER MANAGEMENT.

LOCATION NOTE: ACTUAL LOCATION OF CONVENIENCE STORE TO BE DETERMINED BY THE LOCATION OF THE CANOPY COLUMNS IN THE FIELD. SEE CANOPY PLANS - BUILDING PLAN SET. SHEET 1M. CAR WASH TO BE LOCATED OFF CONVENIENCE STORE AS INDICATED ON THIS SHEET.

Professional Certification: I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 32033, Expiration Date 6-20-97.

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 NO. 32033

APPROVED  
 PLANNING BOARD OF HOWARD COUNTY  
 DATE 9/13/95

DATE	NUMBER	REVISION DESCRIPTION
4-18-17		REMOVE FUEL TANKS, FUEL DISPENSERS & ASSOCIATED PAVING
2-25-96		ADDED PROPANE TANK AREA AND NOTE.
3-28-96		ADDED NOTE PERTAINING TO RETAIL SALES.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 11/1/95 DATE  
 CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH 11/6/95 DATE  
 DIRECTOR 11/6/95 DATE

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

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER: EXXON COMPANY, U.S.A.  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. MIKE SPECHT  
 PHONE: (301) 513-7511

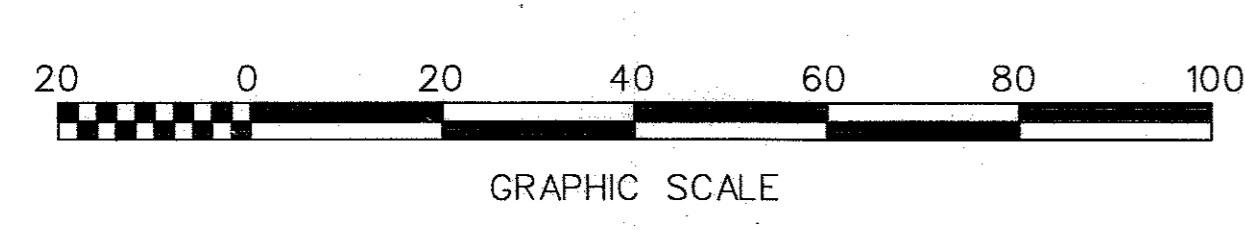
FREDERICK WARD ASSOCIATES INC.  
 ENGINEERS ARCHITECTS SURVEYORS  
 5 SOUTH MAIN STREET BEL. MD, MARYLAND 21014 (410)879-2090

FWA JOB NUMBER 93288 FWA DRAWING FILE NAME CDRT03

AREA: VILLAGE OF LONG REACH  
 SECTION 1 AREA 5  
 TAX MAP 36 PARCEL C  
 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

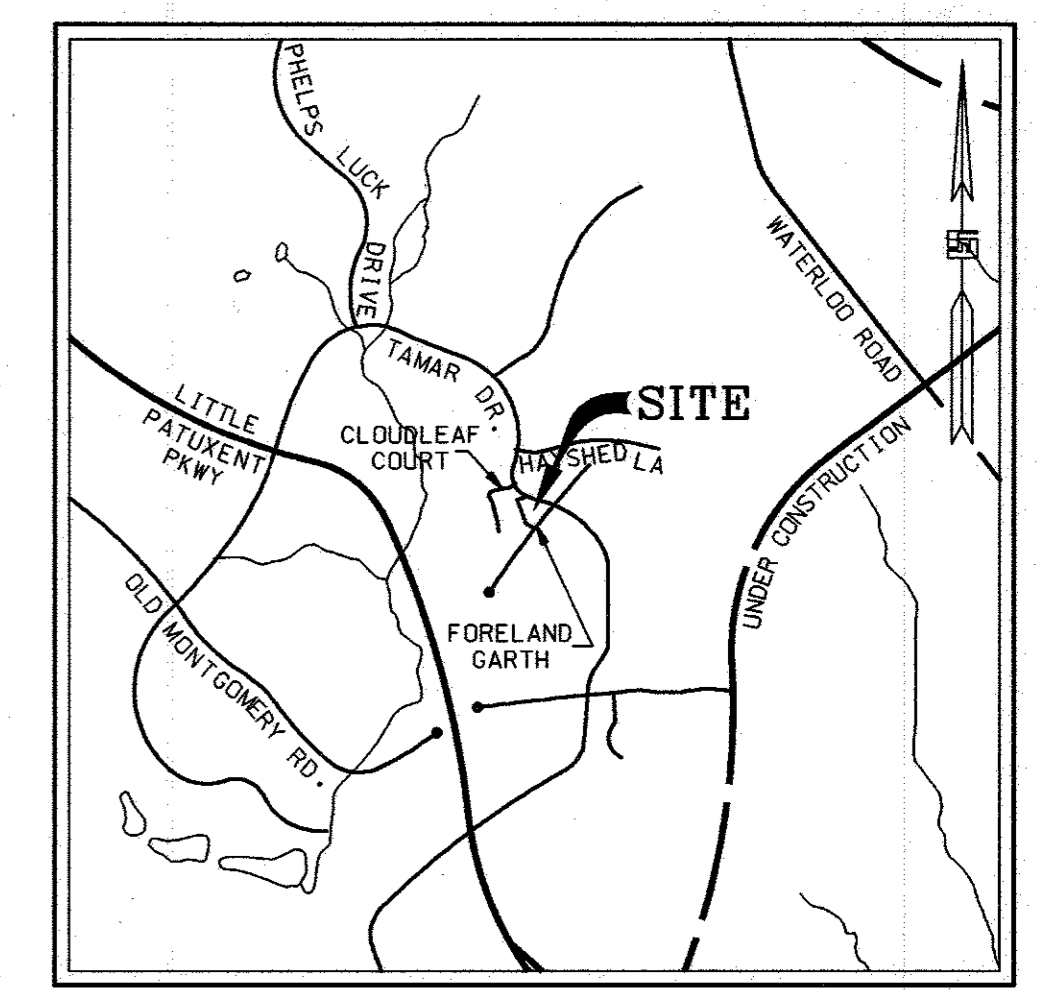
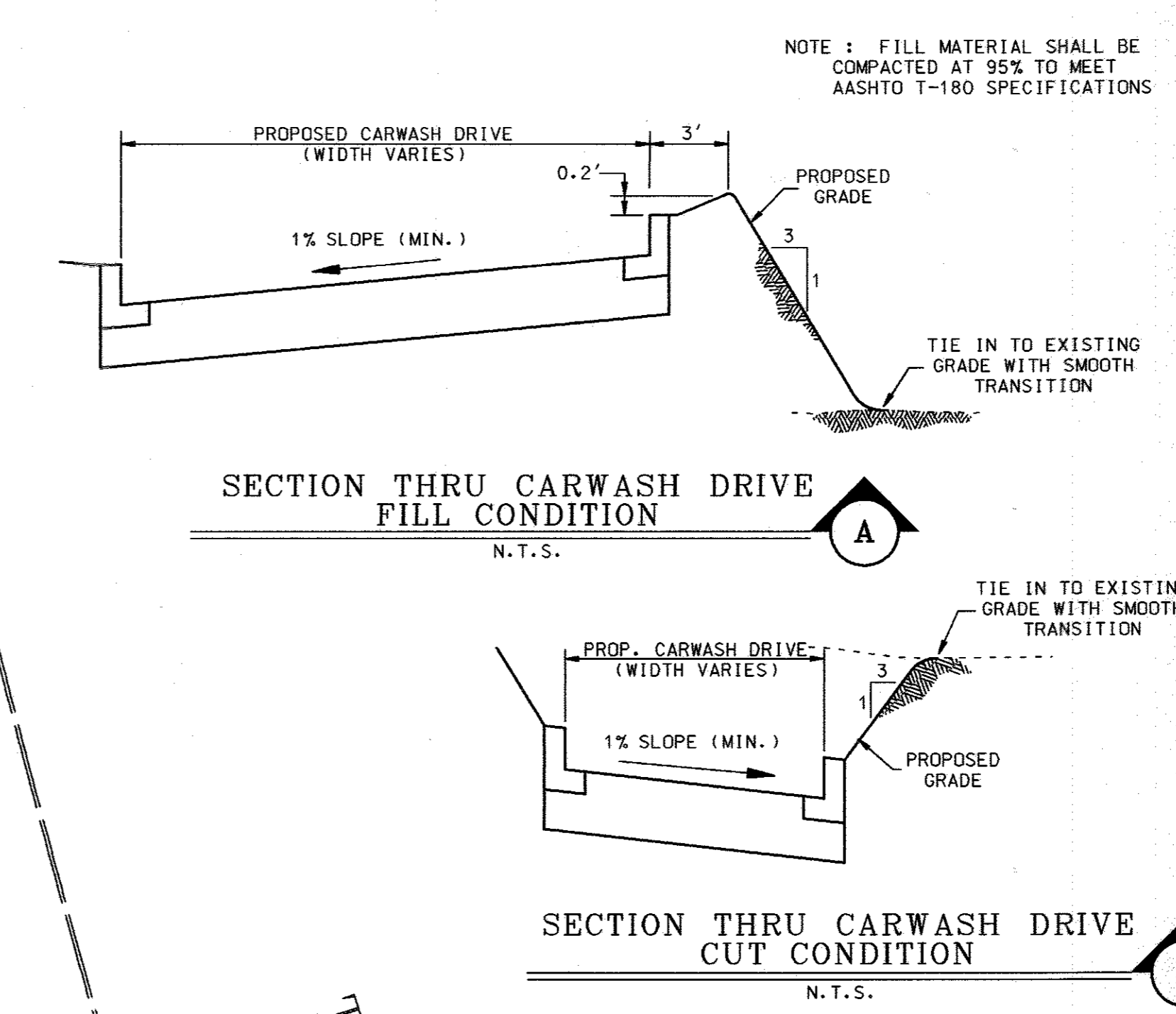
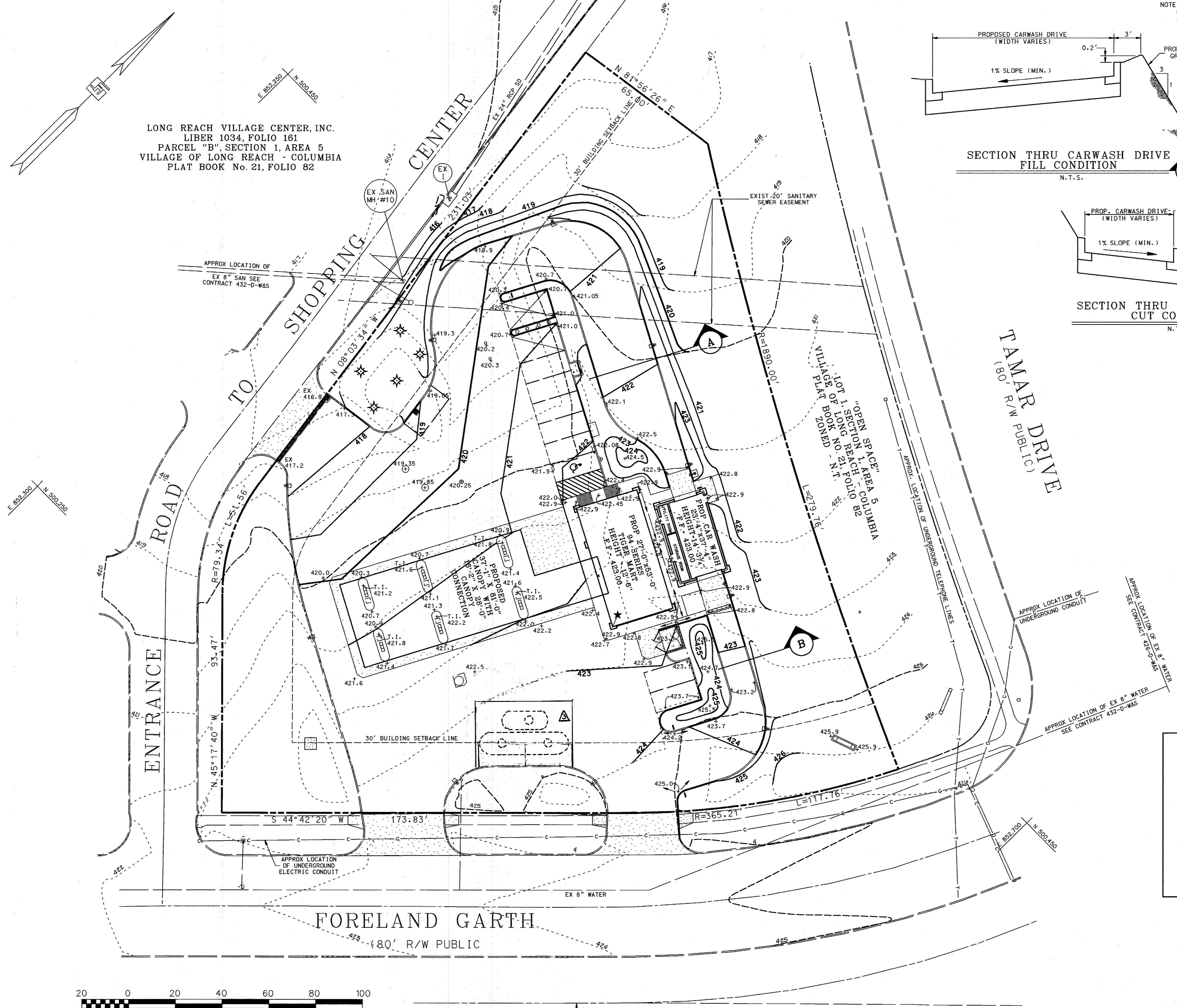
TITLE: FOR AN EXXON STATION AT PARCEL C SITE LAYOUT PLAN

DESIGN BY: JBG SCALE: 1" = 20' PROJECT NO.:  
 DRAWN BY: MSM DATE: 03/27/1995 DRAWING NUMBER  
 CHECKED BY: TFW APPROVED: 03 OF 16



250' SUSQUEHANNA TRANSMISSION LINE R/W

LONG REACH VILLAGE CENTER, INC.  
 LIBER 1034, FOLIO 161  
 PARCEL "B", SECTION 1, AREA 5  
 VILLAGE OF LONG REACH - COLUMBIA  
 PLAT BOOK No. 21, FOLIO 82

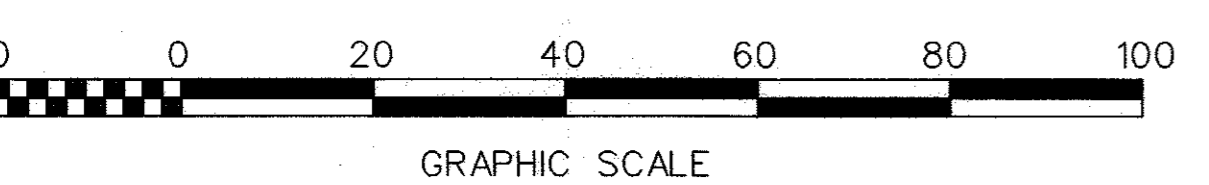


VICINITY MAP  
 SCALE: 1" = 200'

NOTE: FILL MATERIAL SHALL BE  
 COMPACTED AT 95% TO MEET  
 AASHTO T-180 SPECIFICATIONS

SECTION THRU CARWASH DRIVE  
 CUT CONDITION  
 N.T.S.

SECTION THRU CARWASH DRIVE  
 FILL CONDITION  
 N.T.S.



For Revisions # 3 ONLY  
 SW INCORPORATED

Professional Certification: I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 32033, Expiration Date 6-20-06.

SDP-95-117  
 PLANNING BOARD APPROVAL

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9/13/95

DATE	NUMBER	REVISION DESCRIPTION
4-18-17		REVISE FUEL TANKS

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION MK 11/1/95  
 CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH 11/16/95  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT. 11/16/95

OWNER THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER EXON COMPANY, U.S.A.  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. MIKE SPECHT  
 PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.  
 ENGINEERS ARCHITECTS SURVEYORS  
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090

FWA JOB NUMBER: 92288 FWA DRAWING FILE NAME: COOR404

AREA VILLAGE OF LONG REACH  
 SECTION 1 AREA 5  
 TAX MAP 35 PARCEL C  
 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE FOR AN EXXON STATION  
 AT PARCEL C  
 SITE GRADING PLAN

DESIGN BY: JBG SCALE: 1" = 20' PROJECT NO.:  
 DRAWN BY: MSM DATE: 04/24/1995 DRAWING NUMBER:  
 CHECKED BY: TFW APPROVED: 04 OF 16

8/1/95  
 DATE

TIMOTHY F. WHITTIE  
 PROFESSIONAL ENGR. NO. 19155

LONG REACH VILLAGE CENTER, INC.  
 LIBER 1034, FOLIO 161  
 PARCEL "B", SECTION 1, AREA 5  
 VILLAGE OF LONG REACH - COLUMBIA  
 PLAT BOOK No. 21, FOLIO 82

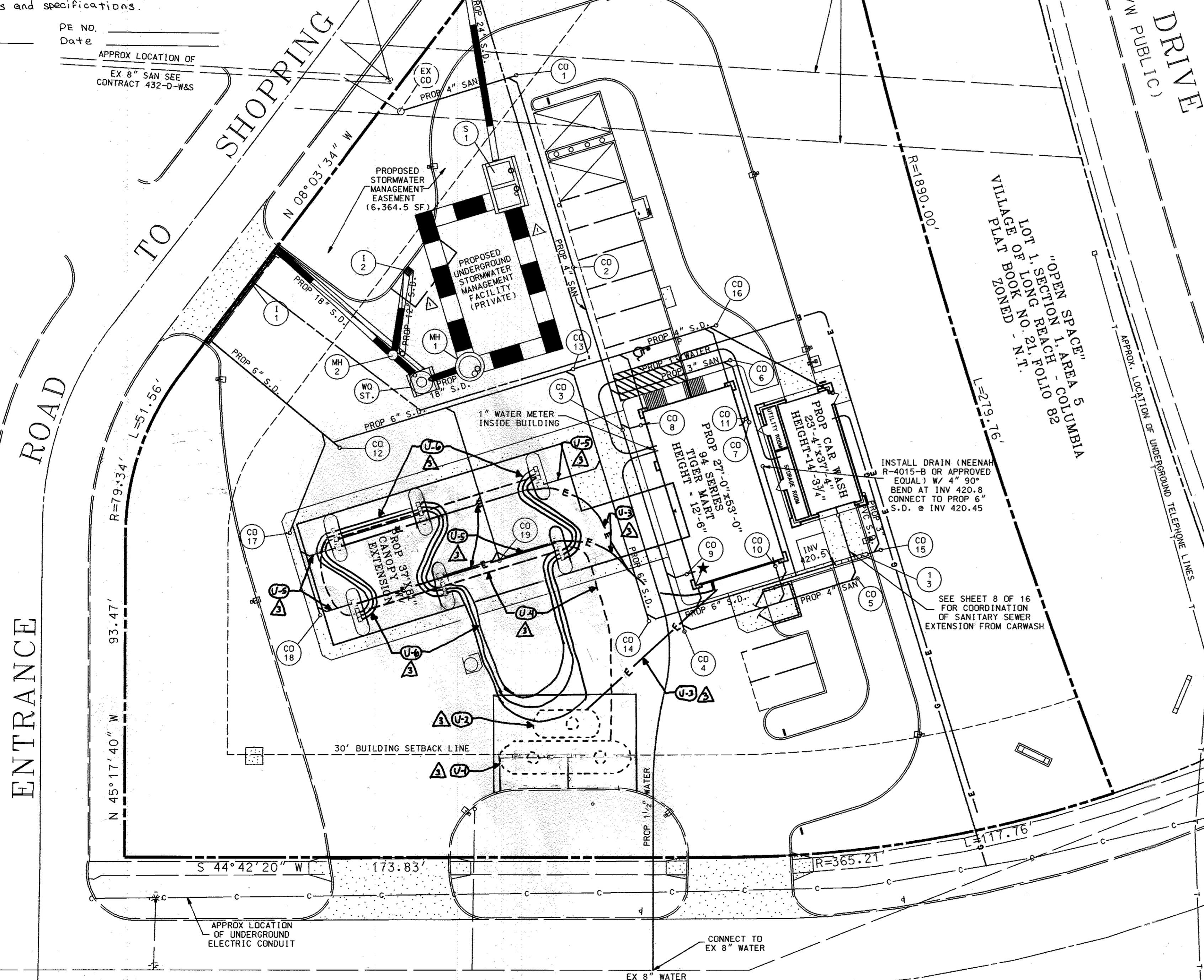
AS BUILT CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "as built" plans and meets the approved plans and specifications.

Signature \_\_\_\_\_

PE NO. \_\_\_\_\_  
 Date \_\_\_\_\_

APPROX LOCATION OF  
 EX 8" SAN SEE  
 CONTRACT 432-D-WAS



GENERAL NOTES FOR UTILITY CONSTRUCTION

1. 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.
2. THE CONTRACTOR IS TO NOTIFY MISS UTILITY AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION AND EXCAVATION. PHONE 1-800-257-7777.
3. 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.
4. ANY EXISTING UTILITIES AND AMENITIES WHICH ARE DAMAGED DUE TO EXISTING PITTING AND UTILITY CONSTRUCTION SHALL BE REPAIRED IN KIND AT THE SOLE EXPENSE OF THE CONTRACTOR.
5. ANY SEDIMENT CONTROL MEASURES REMOVED FOR THE PURPOSE OF UTILITY CONSTRUCTION SHALL BE REPLACED AT THE END OF THE DAY BY THE UTILITY CONTRACTOR.
6. 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.

GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

1. INSTALL EXPANSION JOINTS BETWEEN CONCRETE APRONS AND TRENCH DRAINS.
2. REFER TO SITE GRADING PLAN FOR TRENCH DRAIN GRATE ELEVATIONS.
3. TRENCH DRAIN GRATE AT 1-1 SHALL BE 34 FEET LONG. WARP GUTTER PANS DRAINING TO THESE DRAINS SUCH THAT RUNOFF WILL NOT BYPASS DRAINS. TRENCH DRAIN GRATE AT 1-2 SHALL EXTEND FROM FACE OF CURB TO FACE OF CURB.
4. MANHOLE LIDS AND INLET GRATES SHALL BE TRAFFIC BEARING AND BICYCLE SAFE.
5. ALL MANHOLE LIDS, INLET GRATES AND CLEANOUT TOPS TO BE ADJUSTED TO MATCH CROSS-PITCH AND SLOPE OF PROPOSED GRADES. CLEANOUT TOPS TO BE THREADED AND CONTAIN COUNTERSUNK PLUGS.
6. STORM DRAIN PIPE TO BE PVC SDR 35.

STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE NO.	INV IN	INV OUT	TOP ELEVATION
I-1 TRENCH DRAIN (SEE SHT 10 OF 16)	416.10	419.08	SEE GRADING PLAN, SHT 4
I-2 SINGLE WR INLET (HO. CO. STD. 4.37)		415.00	418.00
I-3 TRENCH DRAIN (SEE SHT 10 OF 16)	420.80	412.70	SEE GRADING PLAN, SHT 4
M-1 84" DIAMETER PRECAST MH (SHA STD MD 384-07)	SEE SWM PLANS, SHT 8		420.26
M-2 SHALLOW PRECAST MH (HO. CO. STD. 65-12)	414.28	414.23	419.35

GENERAL NOTES FOR WATER AND SEWER CONSTRUCTION

1. 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.
2. UTILITIES SHALL MAINTAIN A MINIMUM 12-INCH CLEARANCE WHEN CROSSING EXISTING AND PROPOSED UTILITIES ON AND OFF SITE.
3. WATER SERVICES SHALL HAVE A MINIMUM 3.5 FOOT COVER OVER CROWN OF PIPE.
4. WATER SERVICE SHALL BE TYPE K COPPER TUBING. SANITARY SEWER PIPE SHALL BE SDR 26.

GENERAL NOTES FOR PRODUCT PIPING CONSTRUCTION

1. PRODUCT PIPING TO BE COORDINATED WITH INSTALLATION OF STORM DRAIN AND STORMWATER MANAGEMENT STRUCTURE INSTALLATION.
2. SIZE, TYPE OF EXISTING TANKS (REGULAR, SUPREME, PLUS) AND THEIR ORDER IN THE TANKFIELD ARE BASED IN RECORDS OBTAINED FROM EXXON COMPANY U.S.A. INFORMATION CONCERNING THE EXACT UNDERGROUND LOCATION AND ELEVATION OF EXISTING PRODUCT PIPING AND VAPOR RECOVERY WAS NOT AVAILABLE.

SANITARY SYSTEM CLEANOUT SCHEDULE

C.O. NO.	SIZE (INCHES)	INVERT ELEVATION	TOP ELEVATION
1	6	SEE SANITARY SEWER PROFILE	
2	6		
3	6		
4	6		
5	6		
6	6	417.90	423.0
7	3	418.30	422.85
8	4	417.10	422.95
9	3	417.50	422.95
10	3	418.40	422.95
11	3	418.70	422.90

NOTE: CONTRACTOR TO COORDINATE INVERT OF SANITARY STUBS INTO BUILDING WITH PLUMBER.

STORM DRAIN CLEANOUT SCHEDULE

C.O. NO.	SIZE (INCHES)	INVERT ELEVATION	TOP ELEVATION
12	6	416.50	419.6
13	6	418.50	421.6
14	6	420.20	422.85
15	3	420.85	423.5
16	4	418.75	424.0
17	4	416.80	420.2
18	4	418.00	421.05
19	4	418.50	421.85

STORMWATER MANAGEMENT FACILITY STRUCTURE SCHEDULE

STRUCTURE NO.	INFLOW INVERT ELEVATION	OUTFALL INVERT ELEVATION	TOP LID ELEVATION
WO ST.	444.10	444.02	419.85
MH-1	413.22	412.20 (N&M)	420.25
S-1	412.0 (S&E)	411.80	420.3 (INFLOW CHAMBER)
	411.41	411.41	420.2 (OUTFALL CHAMBER)

APPROX LOCATION OF UNDERGROUND CONDUIT

Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 32033, Expiration Date 6-20-99.

For REVISION # 3 ONLY IN INCORPORATED

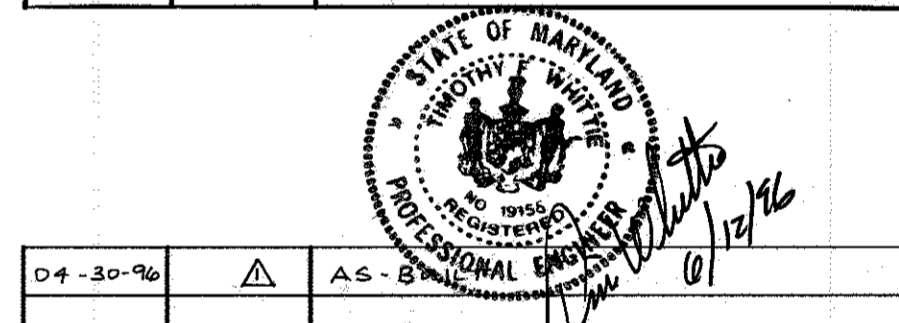
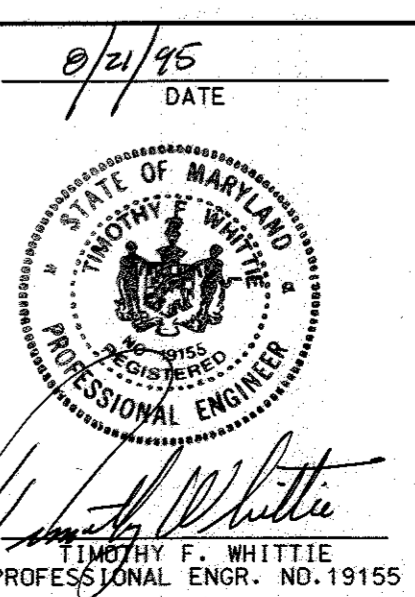


SDP-95-117  
 PLANNING BOARD APPROVAL

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9/13/95

UTILITY NOTES

- U-1 FUEL TANK CONTAINMENT SOLUTIONS PETRO SUPPLY, DWT-6 DMB-2 (10) WM 6M CAPACITY 14296105
- U-2 FUEL TANK CONTAINMENT SOLUTIONS PETRO SUPPLY, DWT-6 TYPE 11 (8) 4000 CAPACITY 5,997
- U-3 UNDERGROUND 3/4" ELECTRIC PIPING IN 2" WIDE TRENCH, 2" COVER MENTIONED
- U-4 UNDERGROUND 1/2" FUEL PIPING IN 4" WIDE TRENCH, 1" COVER MENTIONED
- U-5 SOUP DOWNS AT FUEL STATIONS TO BE RECONSTRUCTED WITH ISLAND RECONSTRUCTION
- U-6 EXISTING FUEL PIPING TO BE ABANDONED IN PLACE, CAP AND FILL



DATE	NUMBER	REVISION DESCRIPTION
04-30-96	AS-B	

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT.  
 JERRY M. BOAL  
 COUNTY HEALTH OFFICER  
 11/3/85

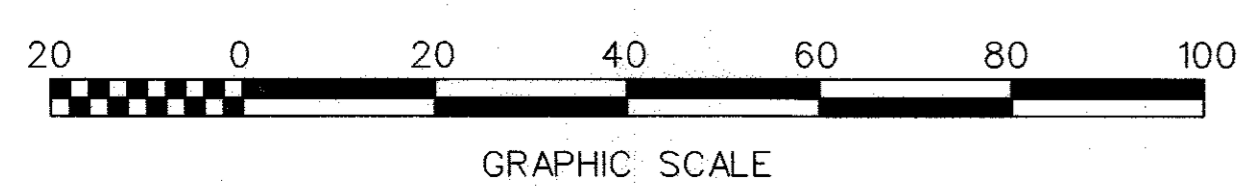
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER: EXXON COMPANY, U.S.A.  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. MIKE SPECHT  
 PHONE: (301) 513-7511

FREDERICK WARD ASSOCIATES INC.  
 ENGINEERS ARCHITECTS SURVEYORS  
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

AREA: VILLAGE OF LONG REACH  
 SECTION 1 AREA 5  
 TAX MAP 36 PARCEL C  
 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION AT PARCEL C SITE UTILITY AND PIPING PLAN  
 DESIGN BY: JBG SCALE: 1" = 20' PROJECT NO.:  
 DRAWN BY: MSM DATE: 04/27/1995 DRAWING NUMBER:  
 CHECKED BY: TFW APPROVED: 05 OF 16



LONG REACH VILLAGE CENTER, INC.  
LIBER 1034, FOLIO 161  
PARCEL "B", SECTION 1, AREA 5  
VILLAGE OF LONG REACH - COLUMBIA  
PLAT BOOK No. 21, FOLIO 82

**STONE OUTLET SEDIMENT TRAP DATA**

D.A. TO TRAP : 0.92 AC  
REQUIRED STORAGE : 1,656 CF  
PROVIDED STORAGE : 1,656 CF  
SIDE SLOPES : 2:1  
BOTTOM DIMENSIONS : 46' X 12'  
BOTTOM ELEVATION : 413.0  
CLEANOUT ELEVATION : 414.5  
STORAGE ELEVATION : 416.0  
WEIR CREST ELEVATION : 417.0  
TOP DIKE ELEVATION : 419.0  
LENGTH OF WEIR CREST : 5'

CAP 15" S.D. UNTIL INLET TRENCH DRAIN IS INSTALLED AND CONNECTION CAN BE MADE

SEE SHEET 7 OF 17 FOR TEMPORARY STORM DRAIN DISCHARGE TO SEDIMENT TRAP

PRIOR TO REMOVAL OF SEDIMENT TRAP, INSTALL SUPER SILT FENCE AS INDICATED REMOVE SUPER SILT FENCE UPON REMOVAL OF TRAP, PRIOR TO COMPLETION OF ENTRANCE CONSTRUCTION

PROPOSED STONE OUTLET SEDIMENT TRAP

ALL EXISTING TREES TO BE PROTECTED DURING CONSTRUCTION

PROPOSED SILT FENCE

TEMPORARY STOCKPILE FOR MATERIAL EXCAVATED FROM SEDIMENT TRAP

LIMIT OF DISTURBANCE

APPROX LOCATION OF UNDERGROUND ELECTRIC CONDUIT

LIMIT OF DISTURBANCE

FORELAND GARTH

(80' R/W PUBLIC)



GRAPHIC SCALE

**SEQUENCE OF OPERATION**

- OBTAIN HOWARD COUNTY GRADING PERMIT.
- NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- REMOVE ENOUGH PAVING TO ALLOW FOR INSTALLATION OF SCE. INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM. (WEEK 1)
- INSTALL ALL SILT FENCE AND INLET PROTECTION DEVICE INDICATED ON PLANS. (WEEK 1)
- REMOVE ENOUGH CURB, PAVING AND TRENCH DRAIN AT ENTRANCE ALONG PRIVATE DRIVE, CLOSEST TO FORELAND GARTH, TO ALLOW FOR INSTALLATION OF SEDIMENT TRAP. INSTALL STONE OUTLET SEDIMENT TRAP WITH RIPRAP INFLOW DEVICES. STABILIZE TRAP, AND STOCKPILE OF MATERIAL EXCAVATED FROM TRAP. (WEEK 1)
- REMOVE PAVED FEATURES AND SITE AMENITIES, AS INDICATED ON THE DEMOLITION PLAN, TO AN APPROVED LOCATION. STRIP AND STOCKPILE TOPSOIL. STABILIZE TOPSOIL STOCKPILES. (WEEK 2)
- NOTE: ALL STOCKPILE LOCATIONS AS INDICATED ON THE PLAN ARE APPROXIMATE. CONTRACTOR SHALL PLACE STOCKPILES IN SUCH A MANNER AS TO AVOID EXISTING TREES WHICH WILL BE RETAINED.
- INSTALL STORM DRAIN AND STORMWATER MANAGEMENT SYSTEM. CAP 15" PIPE NEAR PROPOSED TRENCH DRAIN. (WEEK 3)
- INSTALL REMAINING UTILITIES. (WEEK 4)
- ROUGH GRADE SITE. (WEEK 5)
- INSTALL TIGER MART, CARWASH, AND CANOPY EXTENSION. INSTALL MPD'S. (WEEK 5-10)
- INSTALL CURB AND GUTTER, BASE AND PAVING UP TO SEDIMENT TRAP. FINE GRADE SITE. (WEEK 10)
- BACKFILL SEDIMENT TRAP UNDER CONTROLLED COMPACTION AFTER RECEIVING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR. COMPLETE INSTALLATION OF STORM DRAIN SYSTEM AND TRENCH DRAIN. EXTENDING 6" DRAIN TO TRENCH DRAIN AND UNCAPPING 15" PIPE TO MAKE CONNECTION. (WEEK 11)
- COMPLETE INSTALLATION OF CURB AND GUTTER, BASE AND PAVING, AND TRENCH DRAIN. (WEEK 12)
- INSTALL LANDSCAPING. (WEEK 12)
- REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES AFTER RECEIVING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR. (WEEK 13)

**SITE ANALYSIS DATA**

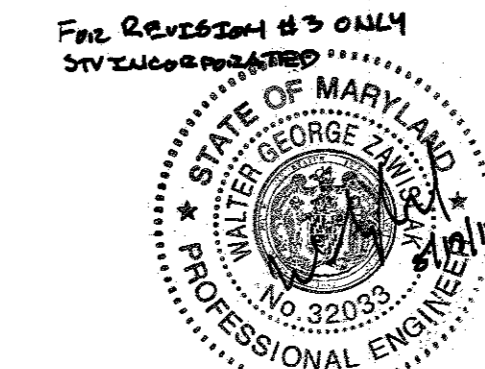
- TOTAL SITE AREA : 1.41 AC±
- TOTAL DISTURBED AREA : 1.18 AC±
- TOTAL IMPERVIOUS AREA : 0.88 AC±
- AREA TO BE VEGETATIVELY STABILIZED : 0.30 AC±
- EARTHWORK :  
CUT - 210 CY  
FILL - 870 CY  
TOPSOIL - 280 CY

NOTE: THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES

**ESTIMATE OF SEDIMENT CONTROL QUANTITIES**

- SILT FENCE : 460 L.F.
- SEDIMENT TRAP : 1,656 C.F.
- STABILIZED CONSTR. ENTR. : 1 EA
- INLET PROTECTION : 2 EA
- STABILIZATION : 0.30 AC±
- RIPPRAP INFLOW : 54.5 S.Y.
- SUPER SILT FENCE : 80 LF

NOTE: THESE QUANTITIES ARE FOR SEDIMENT CONTROL USE ONLY. CONTRACTOR SHALL NOT RELY ON THESE QUANTITIES FOR ESTIMATING AND BIDDING PURPOSES.



Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 32033, Expiration Date 6-20-95.

SDP-95-117

PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY

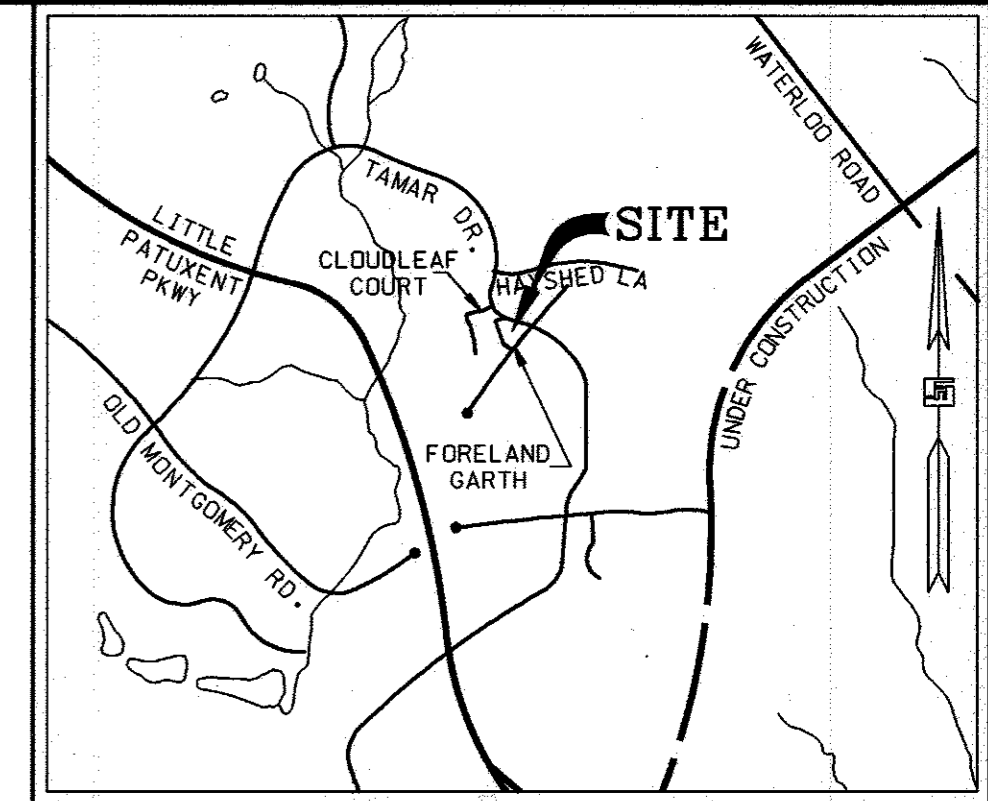
DATE 9/13/95

**LEGEND**

- STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM
- RIPPRAP INFLOW DEVICE
- SILT FENCE
- STOCKPILE AREA
- INLET PROTECTION DEVICE
- LIMIT OF DISTURBANCE
- SAFETY FENCE
- LOD FOR REVISION 3



9/21/95 DATE



**VICINITY MAP**

SCALE: 1" = 2000'

NO.	DATE	REVISION DESCRIPTION
1	4-16-97	REVISE FUEL TANKS, DISPENSER PUMPS & ASSOCIATED PIPING

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*John D. ...* 11/1/95 DATE  
 CHIEF - DEVELOPMENT ENGINEERING DIVISION MK  
*Anna ...* 11/6/95 DATE  
 CHIEF DIVISION & LAND DEVELOPMENT & RESEARCH  
*Joseph ...* 11/6/95 DATE  
 DIRECTOR  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT.  
*Joyce M. ...* 11/3/95 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."  
*Timothy F. Whittie* 9/21/95 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."  
*Wendy ...* 9/21/95 DATE  
 SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.  
*Patricia ...* 10/27/95 DATE  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John R. ...* 10/27/95 DATE  
 HOWARD S.C.D.

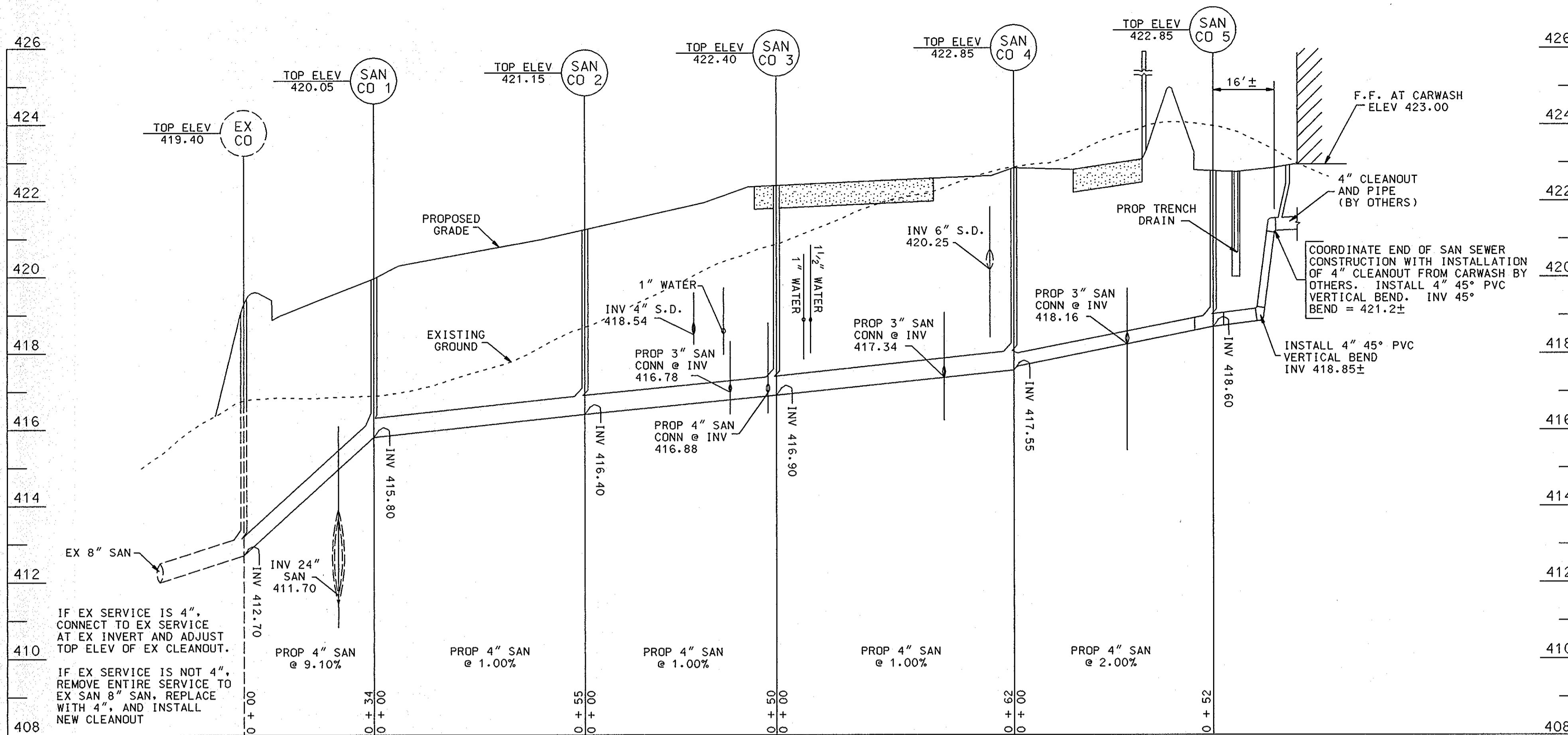
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PAXUENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER: EXON COMPANY, U.S.A.  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT 7, MARYLAND 20770  
 ATTN: MR. MIKE SPICHT  
 PHONE: (301)-513-7511

FREDERICK WARD ASSOCIATES INC.  
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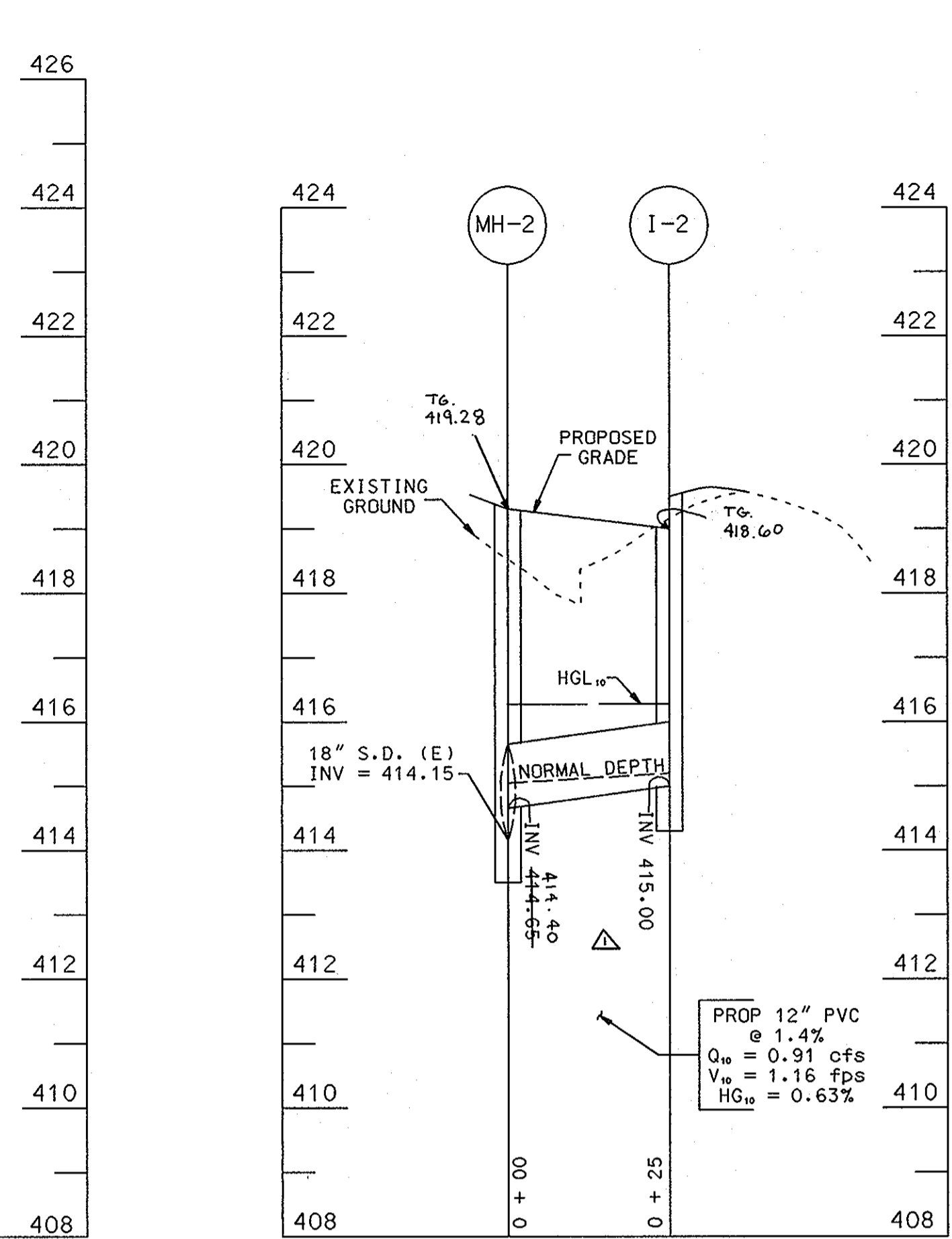
DESIGN BY:	SCALE:	PROJECT NO.:
JBG	1" = 20'	
DRAWN BY:	DATE:	DRAWING NUMBER
MSM	03/24/1995	06 OF 16
CHECKED BY:	APPROVED:	
TFW		





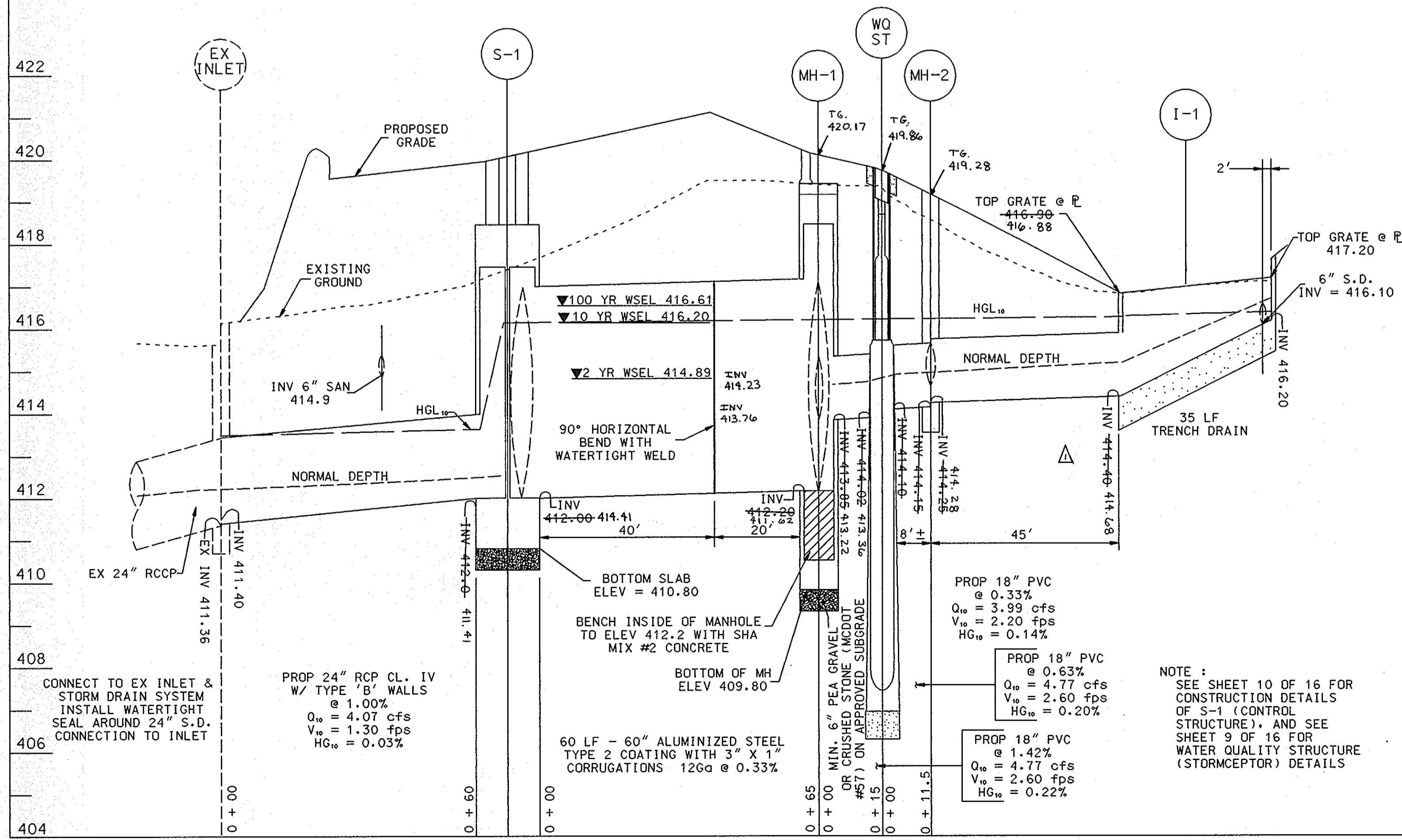
PROFILE : SANITARY SEWER

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



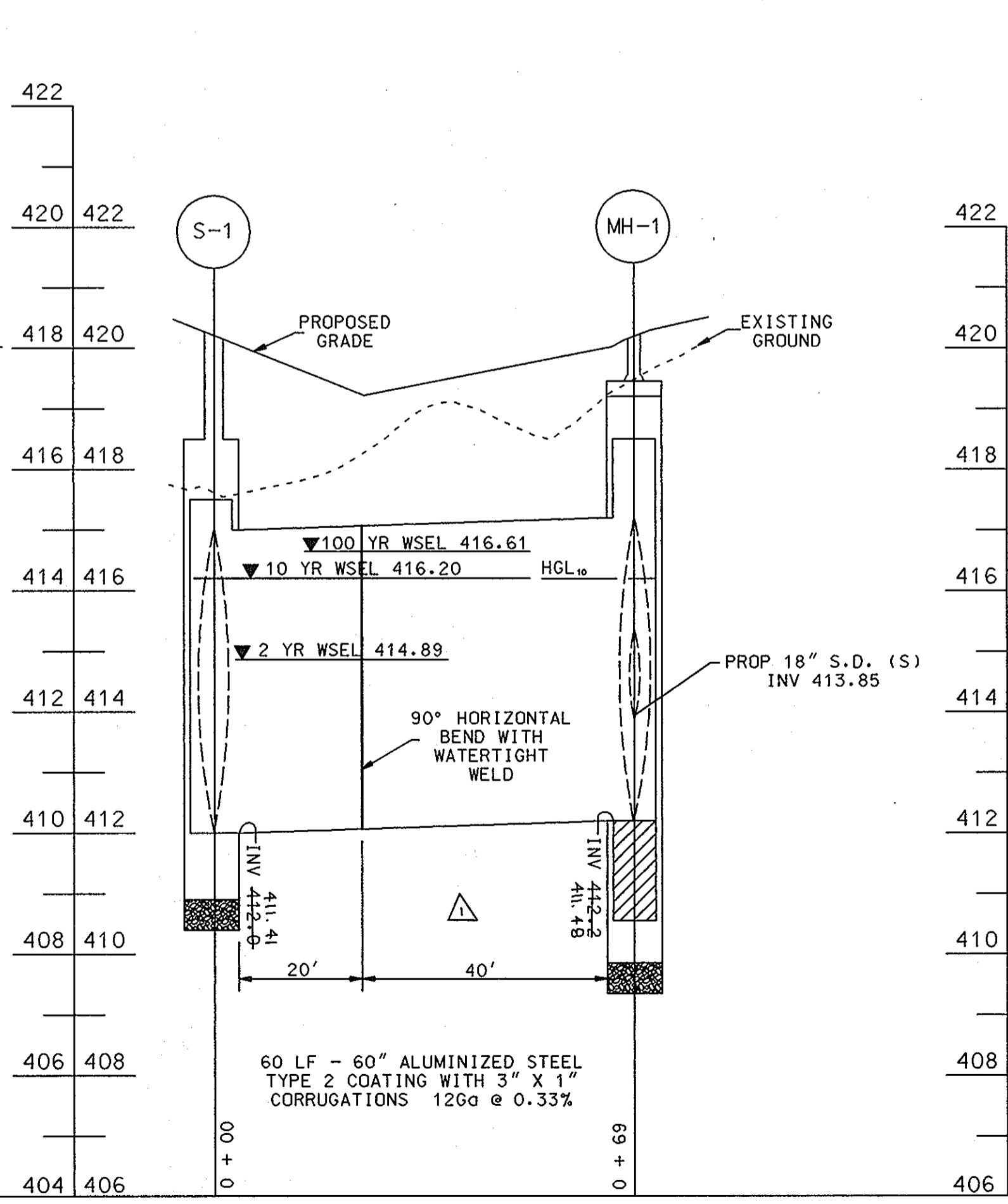
PROFILE : STORM DRAIN, SWM

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



PROFILE : STORM DRAIN, STORMWATER MANAGEMENT

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



STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
No. 19155  
THOMAS F. WHITTIE  
6/24/96

4-30-96	AS-BUILT	
DATE:	NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>[Signature]</i>		11/1/95
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK		DATE
<i>[Signature]</i>		11/6/95
CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH		DATE
<i>[Signature]</i>		1/6/95
DIRECTOR		DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>[Signature]</i>		11/3/95
COUNTY HEALTH OFFICER		DATE

BY THE ENGINEER:  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*[Signature]* 6/2/95  
SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:  
"I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
*[Signature]* 6/2/95  
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS.  
*[Signature]* 6/2/95  
U.S. SOIL CONSERVATION SERVICE DATE

SDP-95-117  
PLANNING BOARD APPROVAL  
APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 9/13/95

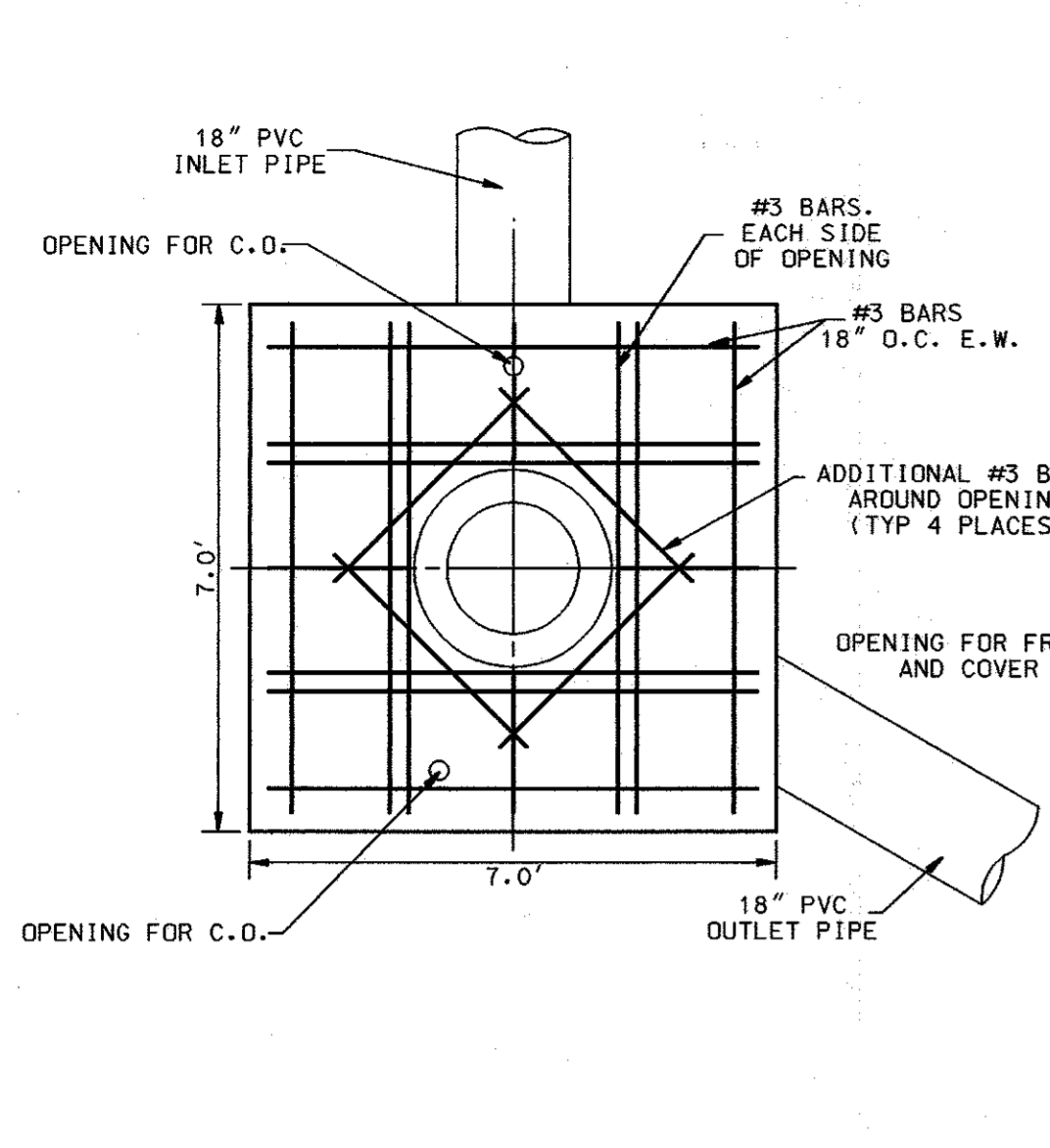
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ATTN: MR. MIKE SPECHT  
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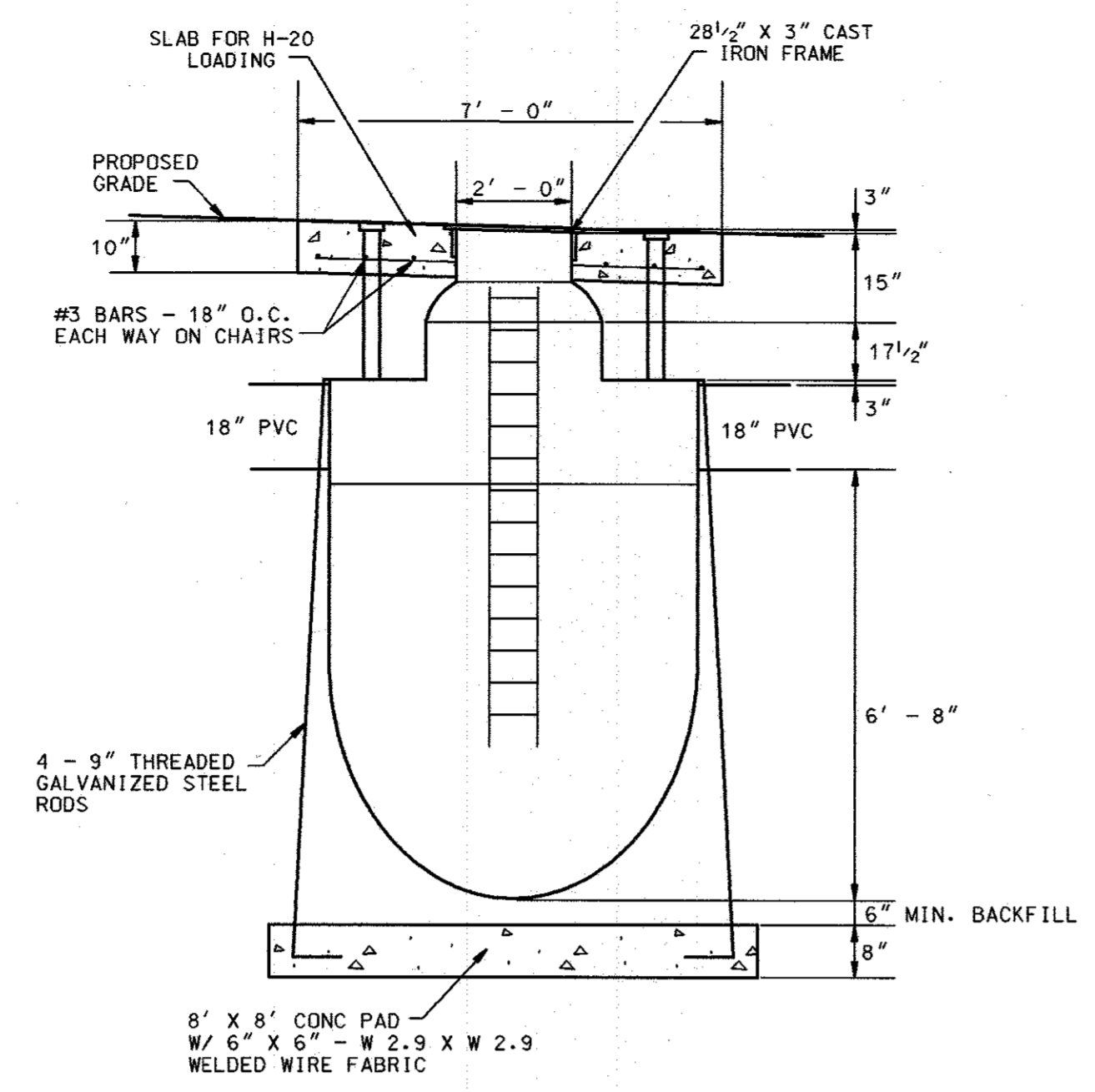
AREA  
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TAX MAP 36 PARCEL C  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
TITLE  
FOR AN EXON STATION  
AT PARCEL C  
STORM DRAIN, STORMWATER MANAGEMENT  
& SANITARY SEWER PROFILES  
DESIGN BY: JBG SCALE: AS SHOWN PROJECT NO.:  
DRAWN BY: MSM DATE: 03/10/1995 DRAWING NUMBER  
CHECKED BY: TFW APPROVED: 08 OF 16



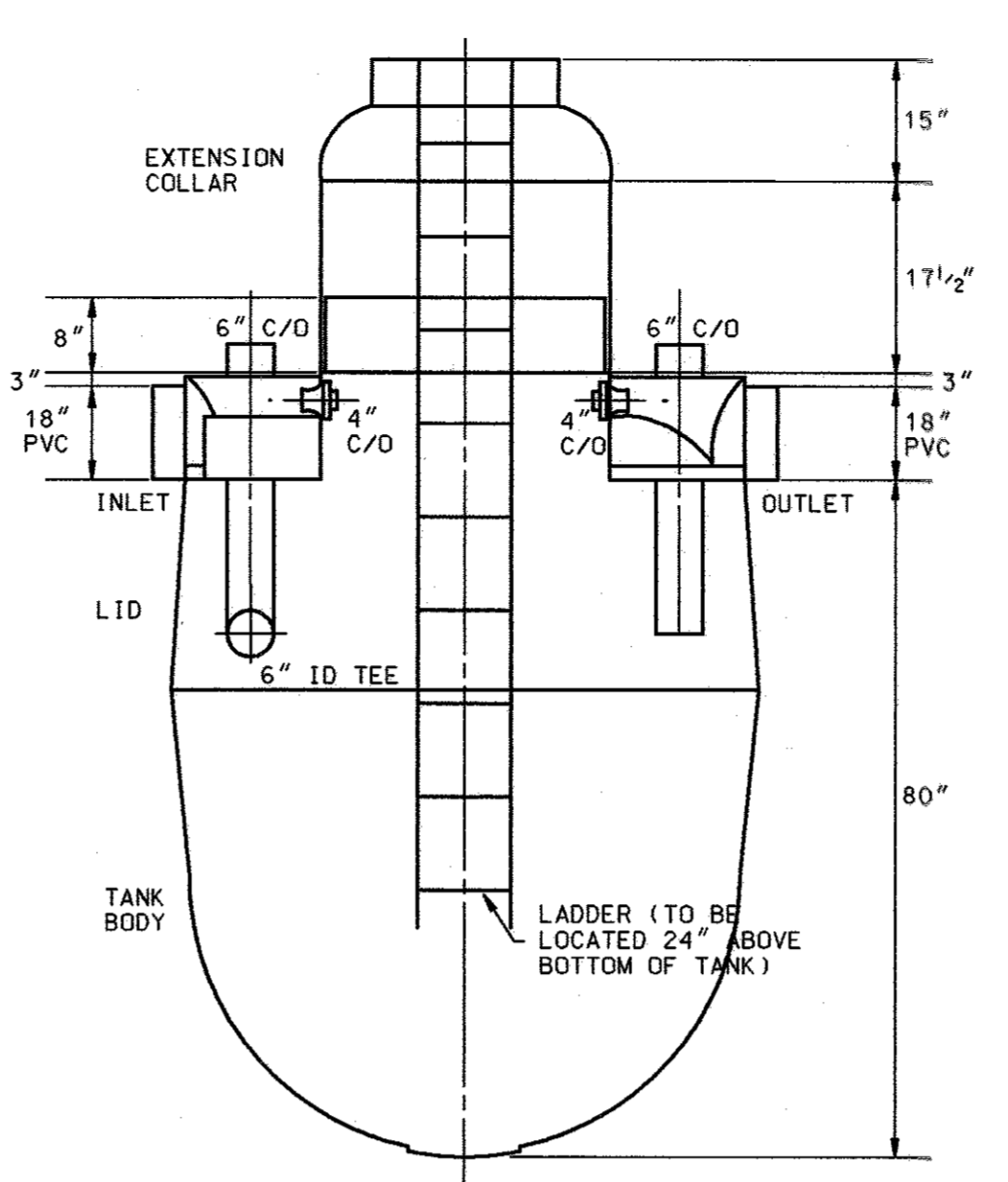




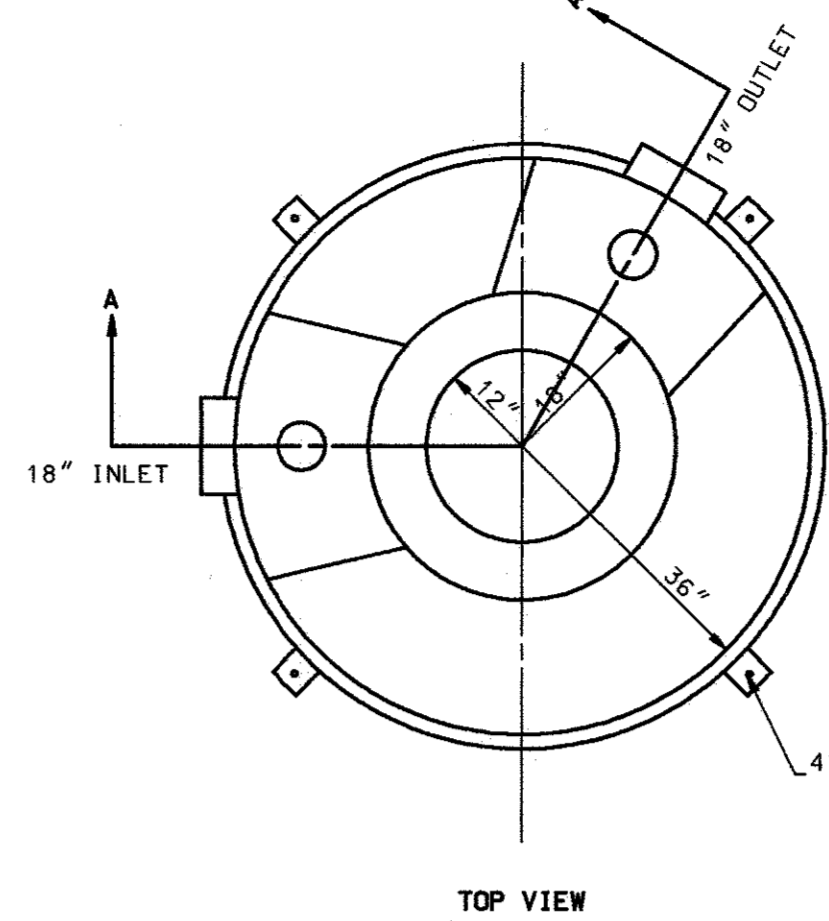
**STORMCEPTOR TOP SLAB FOR H-20 LOADING**  
NOT TO SCALE



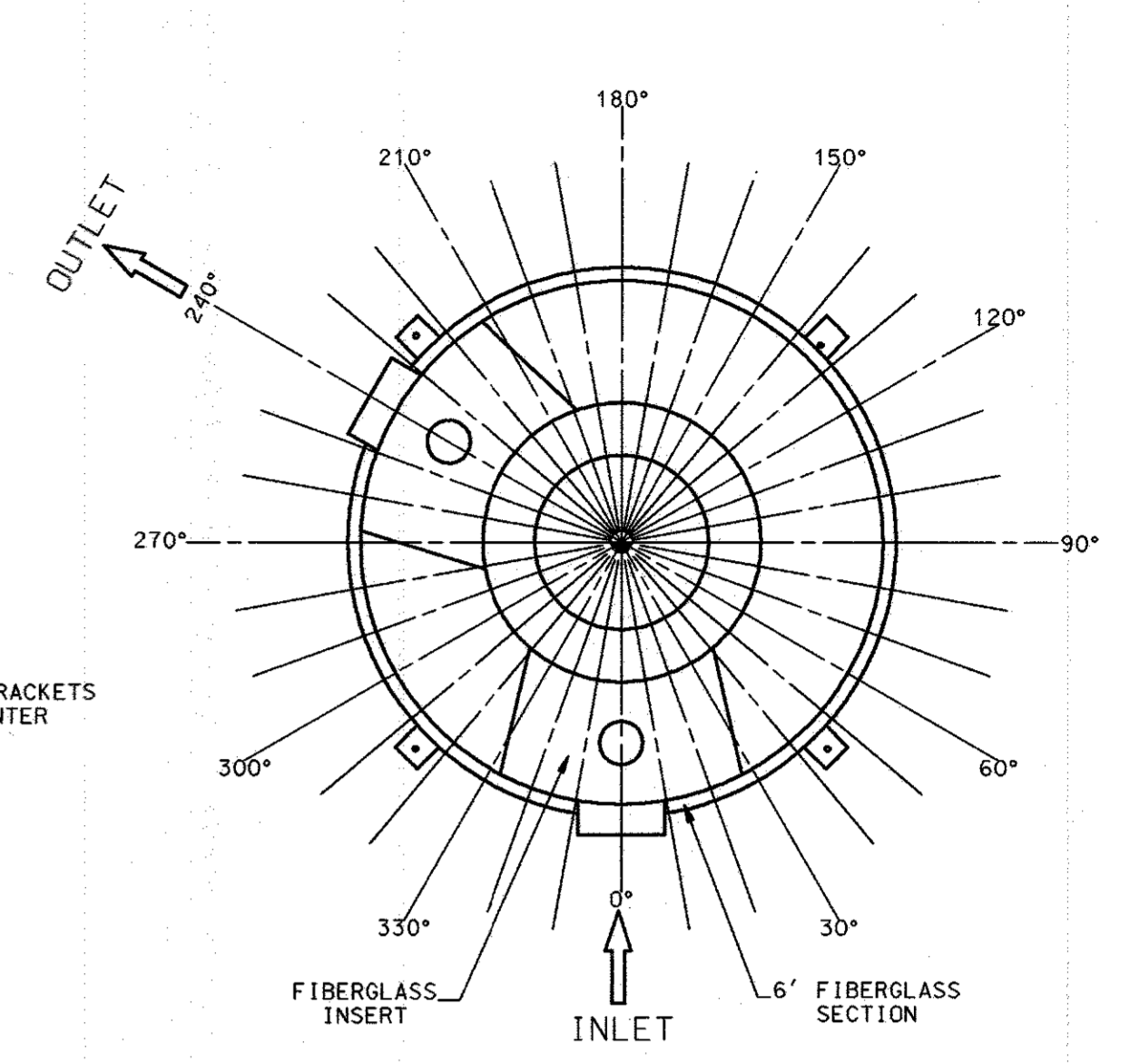
**STORMCEPTOR PROFILE**  
NOT TO SCALE



SECTION A



TOP VIEW



**STORMCEPTOR INSERT OUTLET LOCATION**  
NOT TO SCALE

NOTE: CONTRACTOR SHALL VERIFY THE DIMENSIONS ON THESE DETAILS TO HIS SATISFACTION PRIOR TO ORDERING THE STORMCEPTOR UNIT AND ALL COMPONENTS.

**STORMCEPTOR STA 1000**  
NOT TO SCALE

**INSTALLATION INSTRUCTIONS**

- EXCAVATE TO A DEPTH OF 6" BELOW THE ELEVATION OF THE STRUCTURE.
- PREPARE A COMPACTED MATERIAL BED IN THE BOTTOM OF THE EXCAVATION 6" DEEP. ENSURE COMPACTION TO 95% MODIFIED PROCTOR.
- PLACE UNIT IN EXCAVATION AT CORRECT ELEVATION AND CORRECT INLET/OUTLET DRAINS AFTER THE STRUCTURE IS LEVEL.
- FILL TANK ONE-THIRD WITH WATER.
- BACKFILL WITH MATERIAL IN LAYERS NOT EXCEEDING 8" THICK, COMPACTING CAREFULLY TO 95% MODIFIED PROCTOR. CONTINUE TO FILL UNIT WITH WATER AS BACKFILLING PROGRESSES.
- INSTALL EXTENSION COLLAR/COVER ASSEMBLY OVER NECK OF UNIT. LEVEL THE COVER PLATE AND MEASURE THE DISTANCE FROM THE PLATE TO THE FINISHED GRADE.
- REMOVE EXTENSION AND CUT TO CORRECT LENGTH IF REQUIRED.
- REPLACE EXTENSION, LEVEL AND SQUARE, AND SEAL TO UNIT BY ONE OF THE FOLLOWING:
  - WRAP OUTSIDE OF JOINT WITH FIBERGLASS IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED WITH A FIBERGLASSING KIT. NOTE THAT THIS METHOD APPLIES ONLY WHERE UNIT HAS BEEN SPECIFIED AND SUPPLIED WITH A FIBERGLASSING KIT.
  - DRILL FOUR EQUALLY SPACED HOLES AROUND THE COLLAR SO THAT THE EXTENSION AND THE NECK OF THE UNIT ARE BOTH DRILLED. USE POP RIVETS, OR PLATED THREADED FASTENERS TO JOINT, THEN FILL JOINT FROM THE INSIDE WITH A SILICONE BASED CAULK.
  - WHERE A FLEXIBLE JOINT MUST BE PROVIDED TO PREVENT LOAD TRANSFER, THE JOINT SHOULD BE FILLED FROM THE INSIDE WITH A SILICONE BASED CAULK. THE INSIDE SURFACE OF THE EXTENSION COLLAR WHERE IT OVERLAPS THE NECK OF THE UNIT MUST BE ROUGH Sanded, AND CARE MUST BE TAKEN THAT THE EXTENSION DOES NOT REST ON THE RIBS OR TOP OF THE UNIT.
- COMPLETE BACKFILLING TO FINISH ELEVATION AND POUR FLOOR. IF THE UNIT IS OUTDOORS A SMALL CONCRETE PAD IS REQUIRED TO STABILIZE THE LID.
- IF THERE IS NO FLOOR ABOVE THE UNIT, A CONCRETE PAD MUST BE POURED ABOVE THE UNIT TO PREVENT FLOTATION. ALTERNATIVELY, A CONCRETE PAD MAY BE PLACED BELOW THE UNIT STRAPPED AND OR THREADED ROD USED TO HOLD THE UNIT IN PLACE. PLEASE SEE INSTALLATION INSTRUCTIONS.
- ACCEPTABLE MATERIALS USED IN INSTALLATION ARE AS FOLLOWS:
  - CLEAN NATURALLY-ROUNDED AGGREGATE WITH PARTICLE SIZE NOT LESS THAN 1/4" OR MORE THAN 3/4" IN DIAMETER.
  - WASHED STONE OR GRAVEL CRUSHINGS WITH ANGULAR PARTICLE SIZE NOT LESS THAN 1/4" OR MORE THAN 1/2" ARE ACCEPTABLE AS AN ALTERNATE MATERIAL.
  - WASHED SAND OR OTHER MATERIALS ACCEPTABLE TO THE INSPECTOR.

**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.

**STORM DRAIN CONSTRUCTION NOTES**

- ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND HOWARD COUNTY STANDARDS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
- ALL MANHOLE LIDS AND GRATES TO BE TRAFFIC BEARING AND BICYCLE SAFE, EXCEPT 1-3.
- STORM DRAINS IN SHA RIGHT-OF-WAY TO BE CONSTRUCTED PER SHA PERMIT.

**STORMWATER MANAGEMENT AND 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.
- SEDIMENT SHOULD BE REMOVED ANNUALLY, OR WHENEVER THE ACCUMULATION REACHES 50% OF THE OPERATING DEPTH, FROM BASE TO DRAIN INVERT. IN AREAS OF NEW CONSTRUCTION, OR WHERE VEGETATION HAS NOT YET BEEN ESTABLISHED MORE FREQUENT REMOVAL MAY BE NECESSARY.
- 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.
- THE PIPES AND STRUCTURAL PARTS SHALL BE CLEANED AND REPAIRED AS NEEDED.
- 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, SO, AND/OR MULCH COVERAGE UPON LANDSCAPINGS.
- REMOVE DEBRIS ON TOP OF INLET GRATES AFTER EVERY RAINFALL.
- AT INTERVALS NOT EXCEEDING 1 YEAR OR AS NEEDED, REMOVE ALL GREASE AND OILS, SILTS AND AGGREGATES, AND DEBRIS FROM ALL INLET AND
- THE DISPOSAL OF THE LIQUID AND SOLID MATTER SHOULD BE AS FOLLOWS:
  - ALL LIQUID MATERIAL IN THE SEPARATOR INLET SHALL BE PUMPED INTO A SUITABLE TANK TRUCK AND DISPOSED OF AT AN APPROVED SANITARY DISTRICT DISCHARGE MANHOLE OR BE TAKEN TO AN APPROVED SEWAGE TREATMENT PLANT FOR DISCHARGE.
  - THE SOLID MATERIAL SHALL BE LANDFILLED IN AN APPROVED SANITARY LANDFILL.
- THE LID AND OUTLET STRUCTURE AND MANHOLE #1 SHALL BE INSPECTED TWICE A YEAR (MARCH AND SEPTEMBER) AND COMPONENTS CLEANED OUT ACCORDINGLY. ANY STRUCTURAL DEFICIENCIES SHOULD BE NOTED AND IMMEDIATELY REPAIRED IN KIND.

**REQUIRED PROCEDURES AND INSPECTIONS FOR INGROUND WQ 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 INSPECTION(S) 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.
- FINAL INSPECTION: A FINAL CHECK WILL BE MADE TO CHECK DESIGN DIMENSIONS. IF CONSTRUCTION IS SATISFACTORY.

**CONSTRUCTION SPECIFICATIONS**

- Geo-textile or Filter Fabric
 

Acceptable Geo-textiles:

Amoco	45/45, 45/57
Miraflex	140-N, 150-N
Polyfelt	TS500, TS700
Spartan Tech.	ST-45, ST-80
Supac	4-5NP, 8NP
Terratex	SD, ND-8

Note: This is a partial list only and should not be limited to or endorse any products.
- Site Preparation
 

Areas designated for borrow areas, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than

All cleared and grubbed material shall be disposed of as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use designated areas.
- Earth Fill
 

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials.
- Structure Backfill
 

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure or pipe.
- Concrete
 

Concrete must meet the requirements of Maryland Department of Transportation State Highway Administration Standard Specifications for Construction and Materials, Section 918 (Portland Cement Concrete Mixtures), Mix No. 3. concrete shall have a minimum 28 day compressive strength to a 3500 psi. Reinforcing steel must be ASTM A615, Grade 60. Steel angles and anchor bars must be ASTM A36.
- Reinforced Concrete Culvert Pipe (RCCP)
 

RCCP shall conform to SHA Specification Section 908.03. Rubber gaskets for pipe joints shall conform to SHA Specification Section 908.14.01.
- Rock Riprap
 

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 905.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.2.

SDP-95-117

PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
of HOWARD COUNTY

DATE 9/13/95

8/2/95  
DATE



DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION MK
		CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH
		DIRECTOR
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
		COUNTY HEALTH DEPARTMENT

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: **EXXON COMPANY, U.S.A.**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. MIKE SPECHT  
PHONE: (301) 513-7511

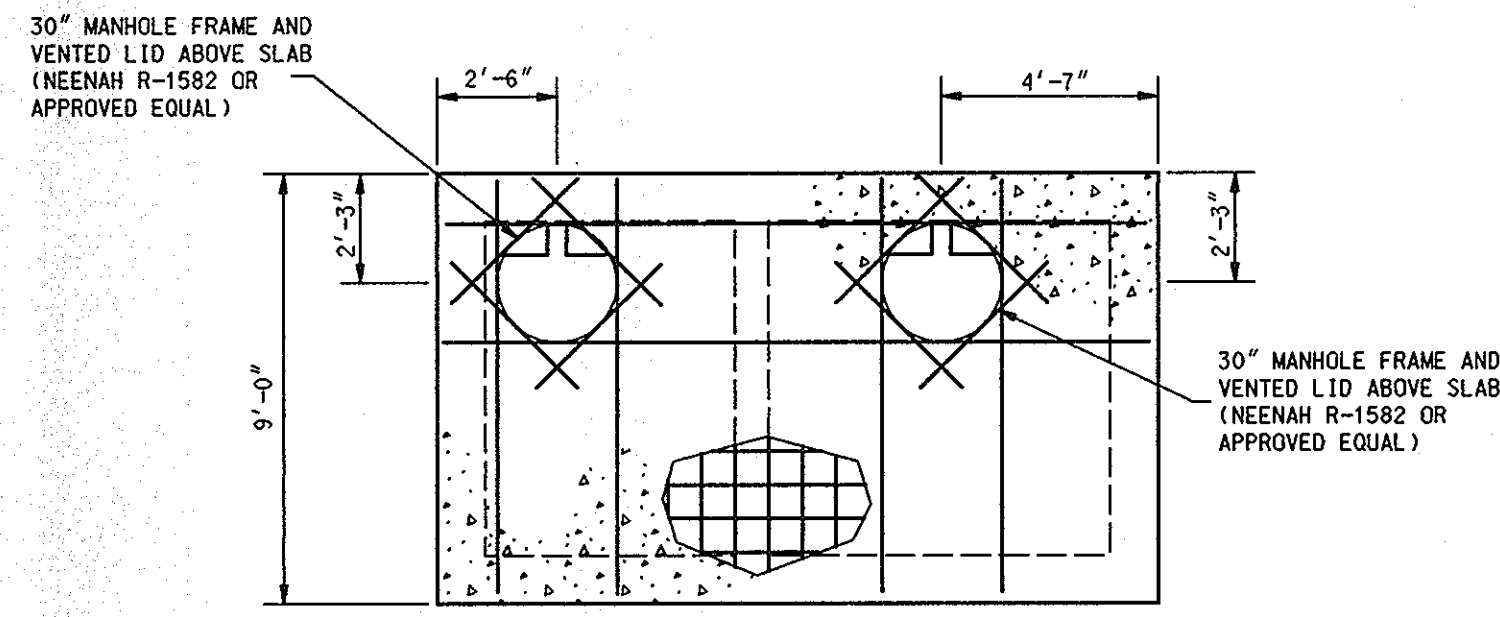
**FREDERICK WARD ASSOCIATES INC.**  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

FWA JOB NUMBER 93288 FWA DRAWING FILE NAME COSTORM

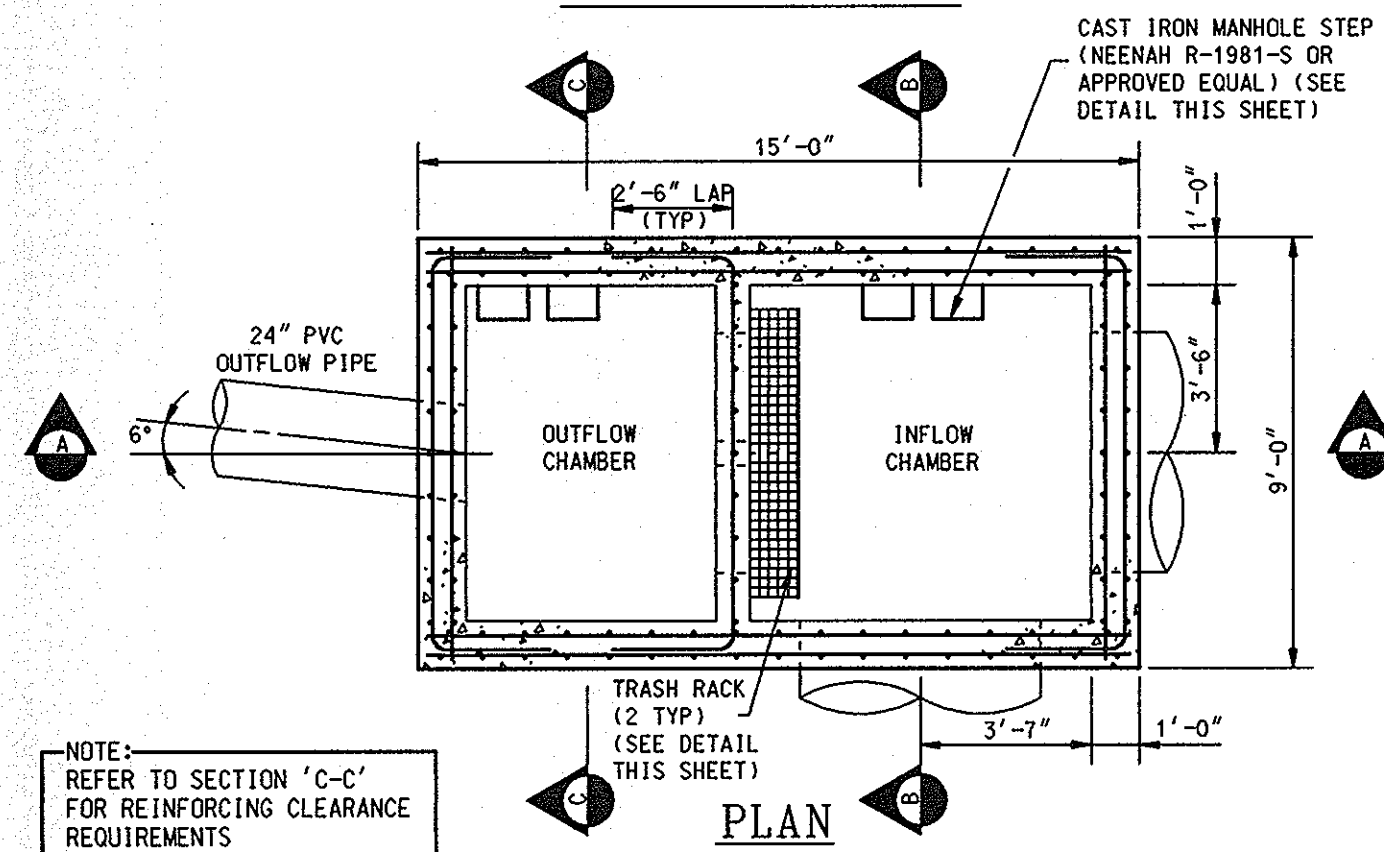
AREA: VILLAGE OF LONG REACH  
SECTION 01 AREA 5  
TAX MAP 36 PARCEL C  
6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION AT PARCEL C  
STORMWATER MANAGEMENT/STORMCEPTOR DETAILS

DESIGN BY: JBG	SCALE: 1" = 20'	PROJECT NO.:
DRAWN BY: MSM	DATE: 04/17/1995	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	09 OF 16

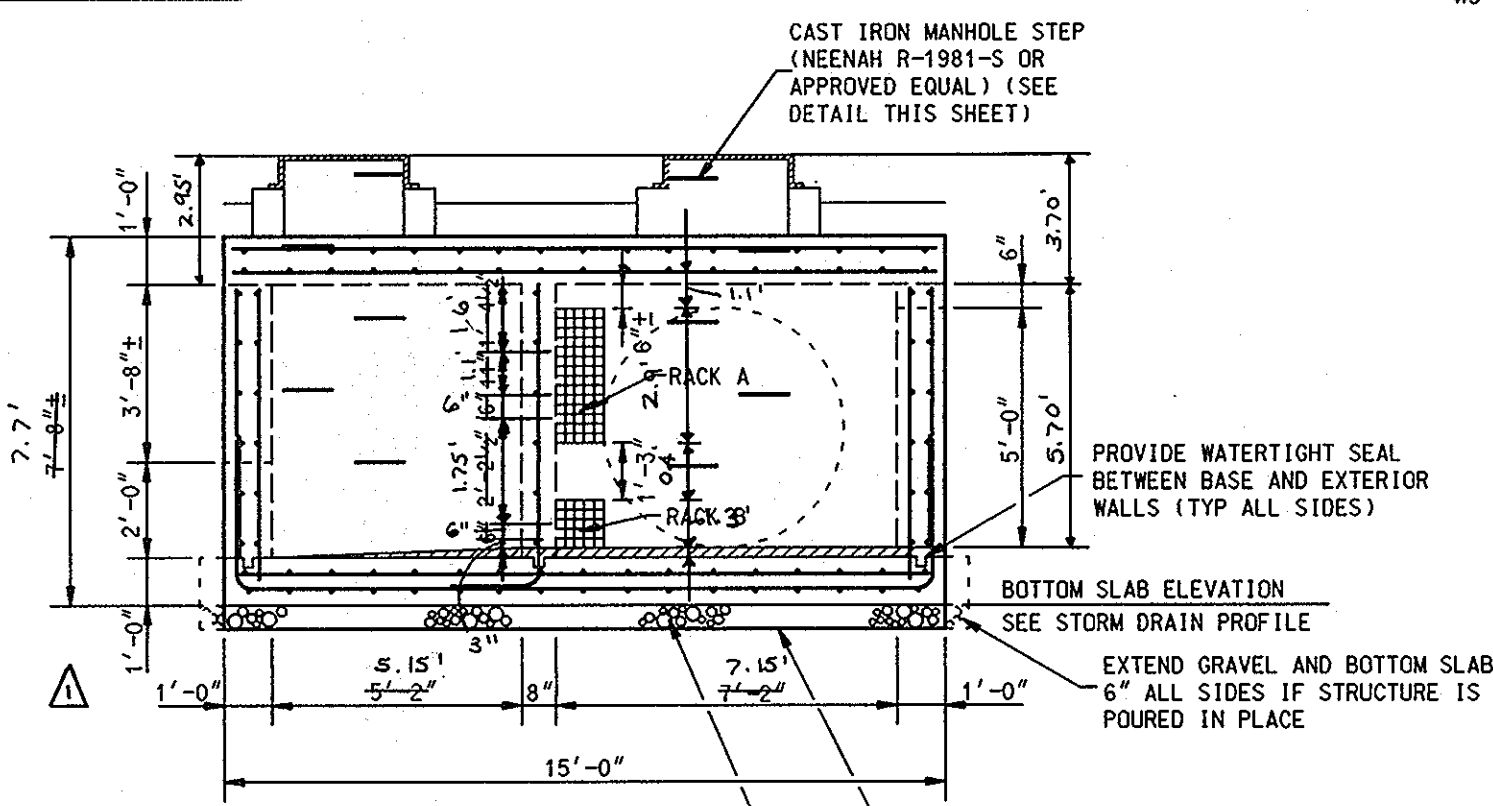


PLAN: TOP SLAB



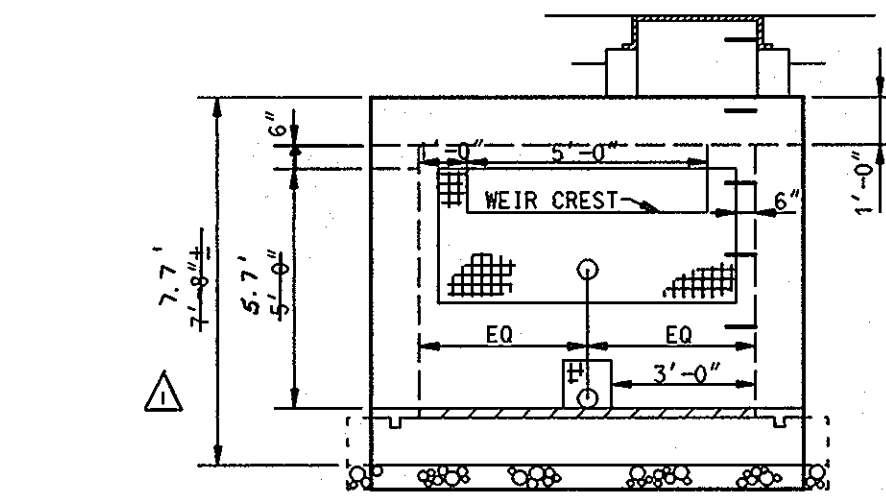
PLAN

NOTE: REFER TO SECTION 'C-C' FOR REINFORCING CLEARANCE REQUIREMENTS



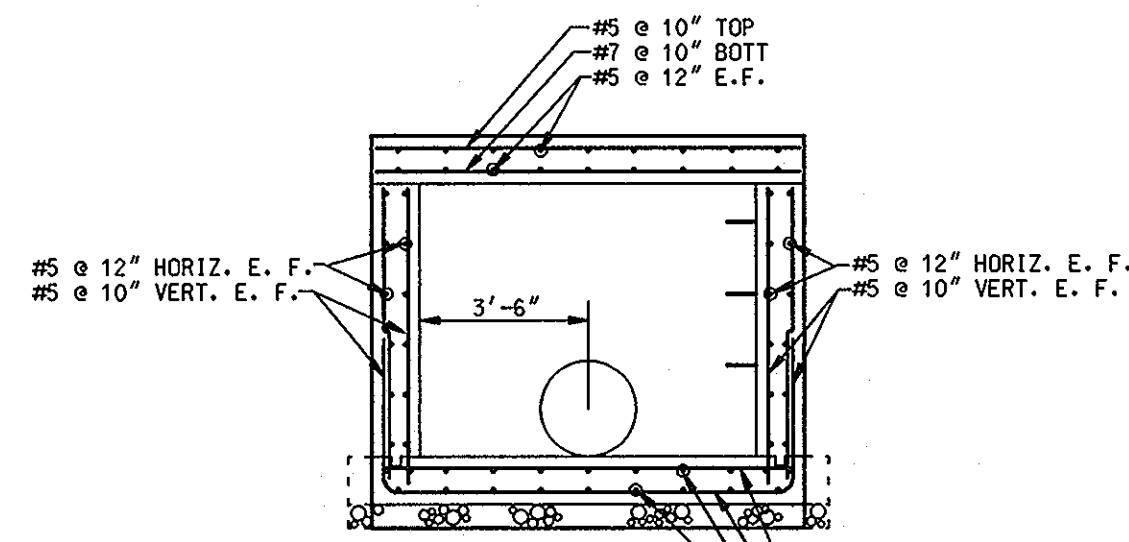
SECTION A-A

MIN 6" FEA GRAVEL OR CRUSHED STONE (MDDOT #57) ON APPROVED SUBGRADE (AS PER EXCON DWG 7006F-1 NOTE D.4.2. VERIFY SUBGRADE BEARING CAPACITY NOT LESS THAN 1,500 PSF)



SECTION B-B

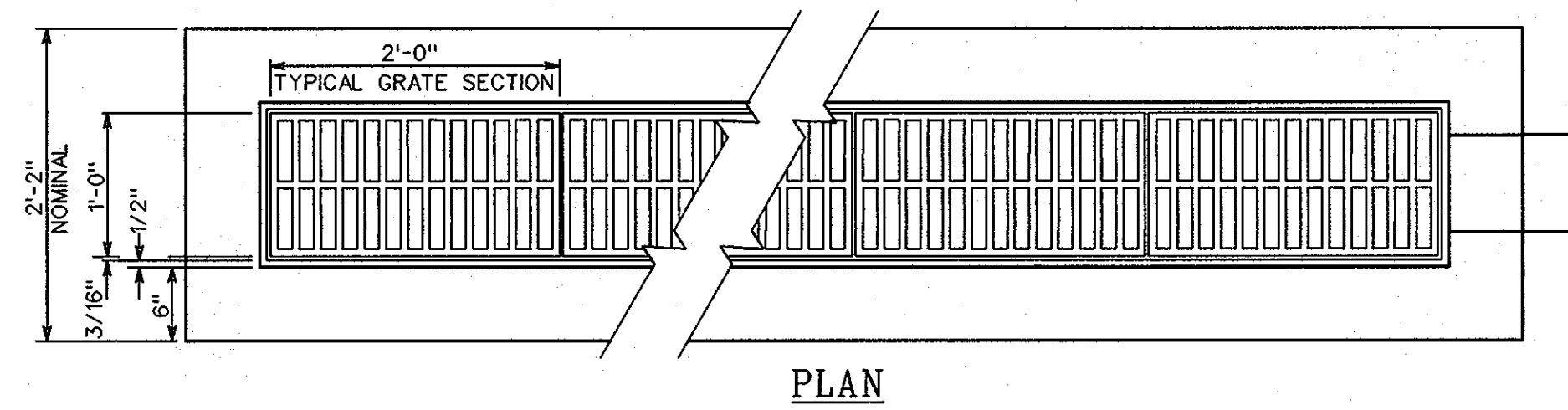
NOTE: REFER TO SECTION 'C-C' FOR REINFORCING DETAILS



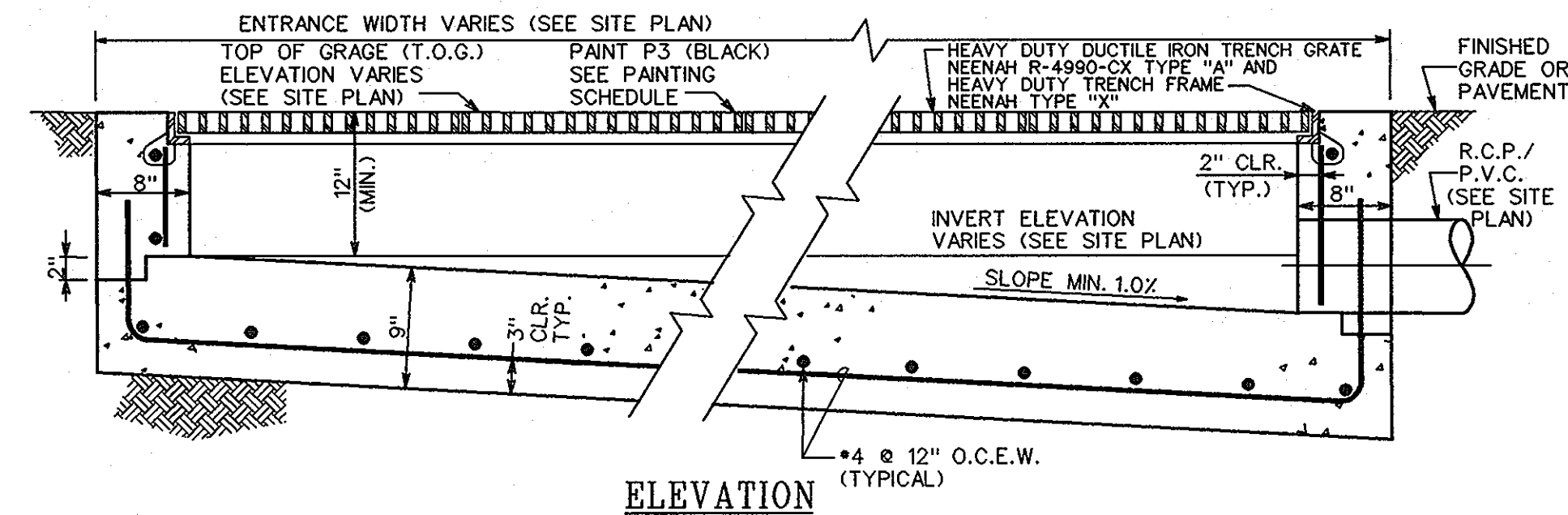
SECTION C-C

#5 @ 12" HORIZ. E. F.  
#5 @ 10" VERT. E. F.

#5 @ 10" TOP  
#6 @ 10" BOT  
#5 @ 12" E. F.



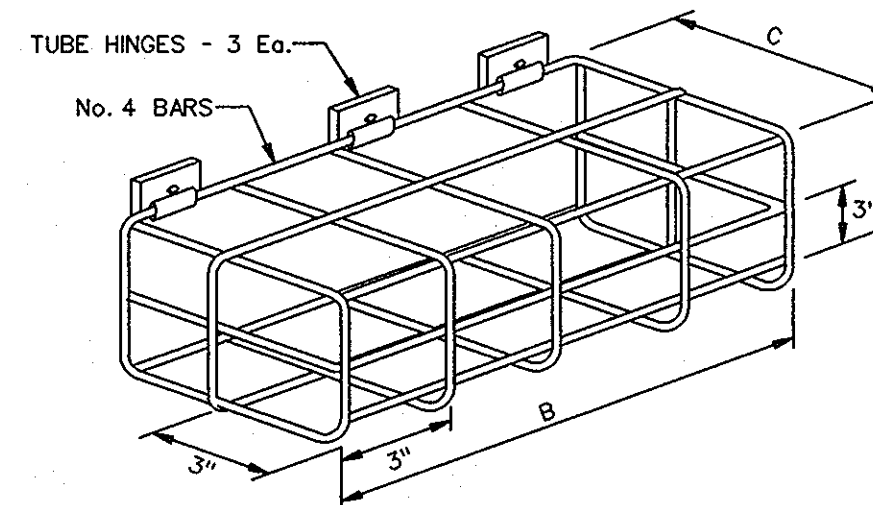
PLAN



ELEVATION

TYPICAL TRENCH DRAIN DETAIL

PIPE INLET AND OUTLET LOCATION MAY VARY (SEE SITE PLAN) N.T.S.



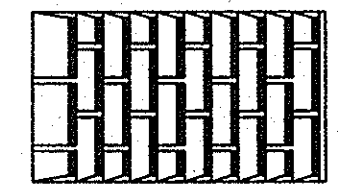
TRASH RACK ISOMETRIC

NOT TO SCALE

TRASH RACK TO BE HOT-DIPPED GALVANIZED

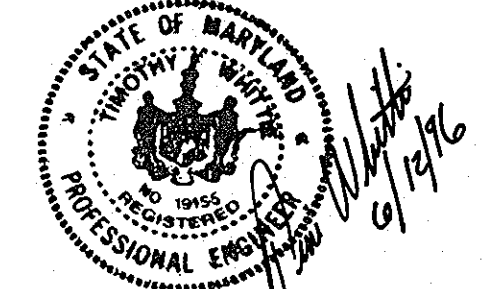
RACK	DIMENSIONS		
	A	B	C
A	2' - 9"	6' - 0"	1' - 0"
B	1' - 0"	1' - 0"	1' - 0"

NOTE: USE NEENAH R-4999 TYPE L GRATE AT 1-1



NEENAH TYPE L GRATE DETAIL

NOT TO SCALE



DATE	NUMBER	REVISION DESCRIPTION
11/1/95		DATE
11/6/95		DATE
11/6/95		DATE

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

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.

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.

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

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

SDP-95-117

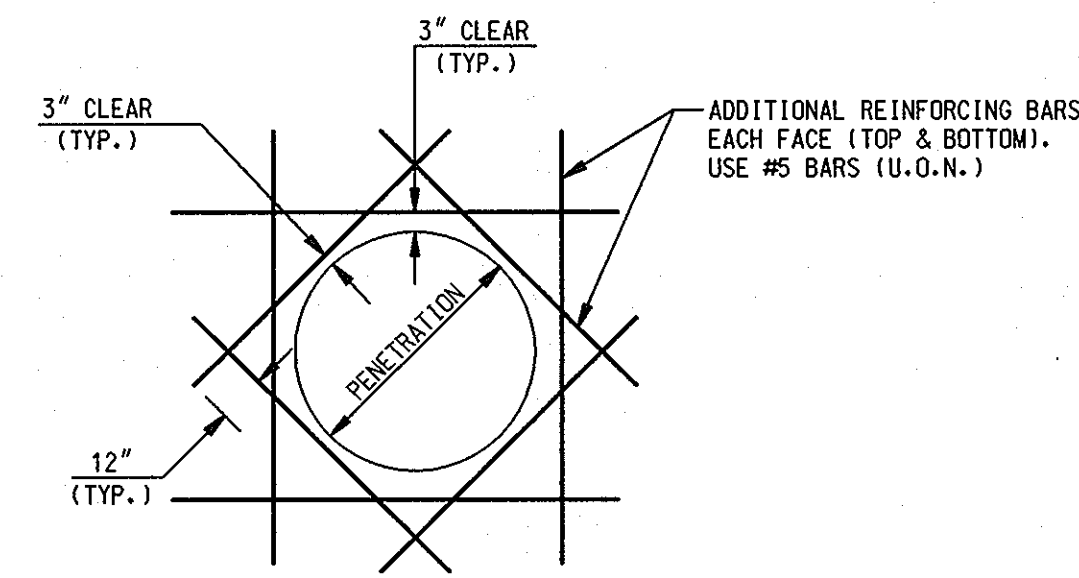
PLANNING BOARD APPROVAL

APPROVED PLANNING BOARD OF HOWARD COUNTY

DATE 9/13/95

GENERAL NOTES

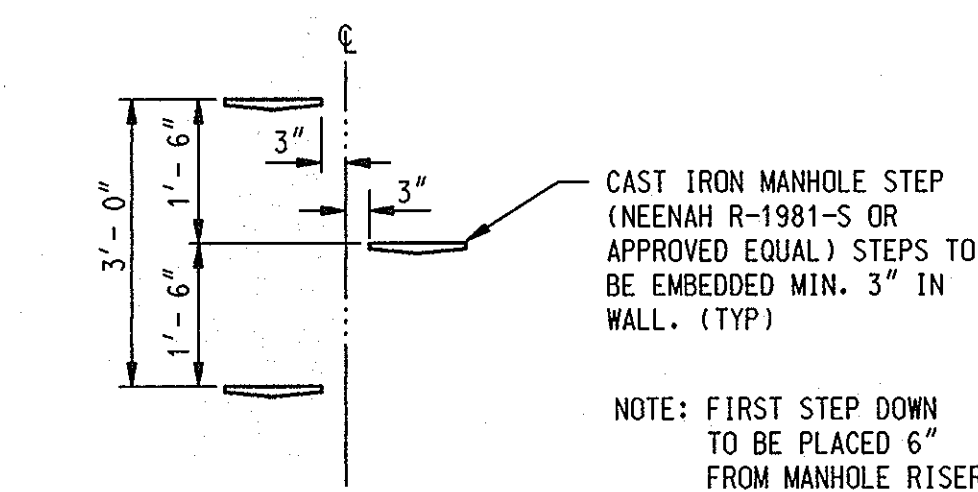
- ALL STRUCTURES DETAILED ON THIS SHEET SHALL BE CAPABLE OF SUPPORTING ASHTO HS-20 LOADING, AND SHALL BE CONSTRUCTED IN FULL ACCORDANCE WITH ACI 318, LATEST EDITION.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH  $f_c' = 3,500$  psi.
- ALL REINFORCING SHALL CONFORM TO ASTM A-615 GRADE 60.
- CONTRACTOR SHALL PRE-CAST STRUCTURE IN WHOLE OR IN PART, SUBJECT TO THE PRIOR APPROVAL OF PRE-CAST SHOP DRAWING SUBMITTED TO HOWARD COUNTY BUREAU OF ENGINEERING PRIOR TO MANUFACTURING.
- SILT AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE STRUCTURES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
- ALL OPENINGS TO THE STRUCTURE SHALL BE PROTECTED WITH THE APPROPRIATE SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.



TYPICAL REINFORCING DETAIL @ WALL & SLAB PENETRATION

SCALE: 1/4" = 1'-0"

NOTE: ADDITIONAL REINFORCING BARS ARE NOT REQUIRED WHEN PENETRATION DIMENSIONS ARE LESS THAN BAR SPACING.



MANHOLE STEP DETAIL

NOT TO SCALE

NOTE: FIRST STEP DOWN TO BE PLACED 6" FROM MANHOLE RISER TOP

SWM OUTFALL STRUCTURE DETAILS

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

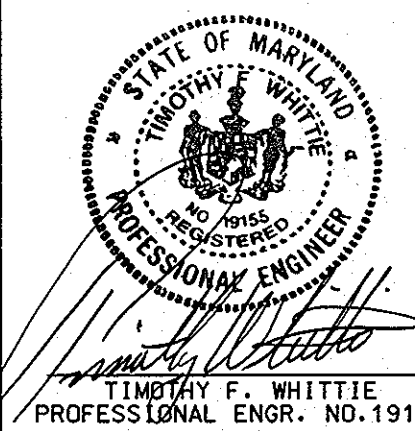
DEVELOPER EXON COMPANY, U.S.A.  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. MIKE SPECHT  
PHONE: (301)-513-7511

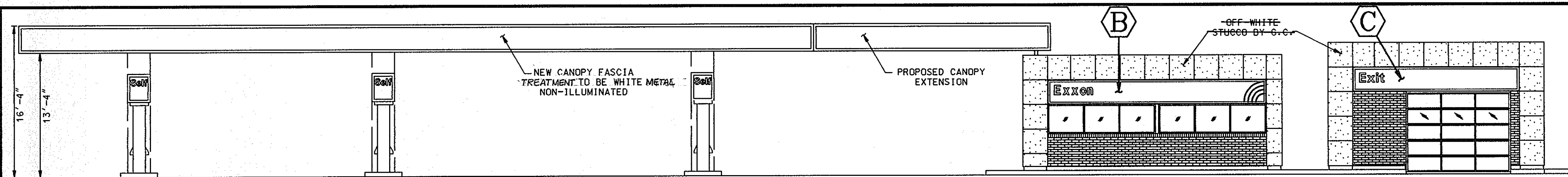
FREDERICK WARD ASSOCIATES INC.  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)787-2090

AREA VILLAGE OF LONG REACH  
SECTION 1 AREA 5  
TAX MAP 36 PARCEL C  
6 TH. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

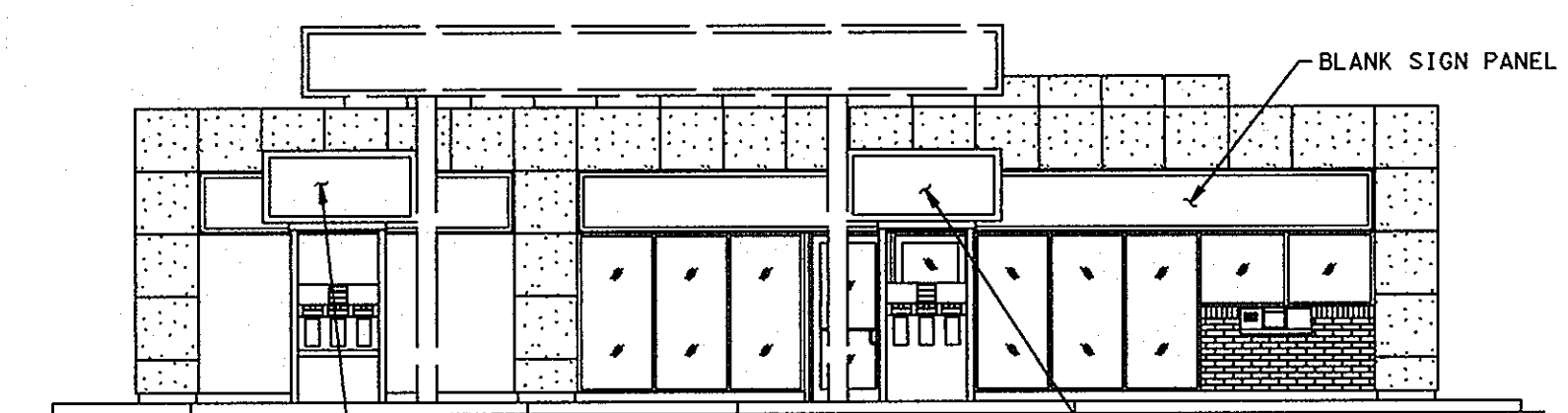
TITLE FOR AN EXXON STATION AT PARCEL C STORMWATER MANAGEMENT DETAILS

DESIGN BY:	SCALE:	AS SHOWN	PROJECT NO.:
JBG			
MSM	DATE:	03/10/1995	DRAWING NUMBER
TFW	APPROVED:		10 OF 16





SIDE PERSPECTIVE  
NOT TO SCALE

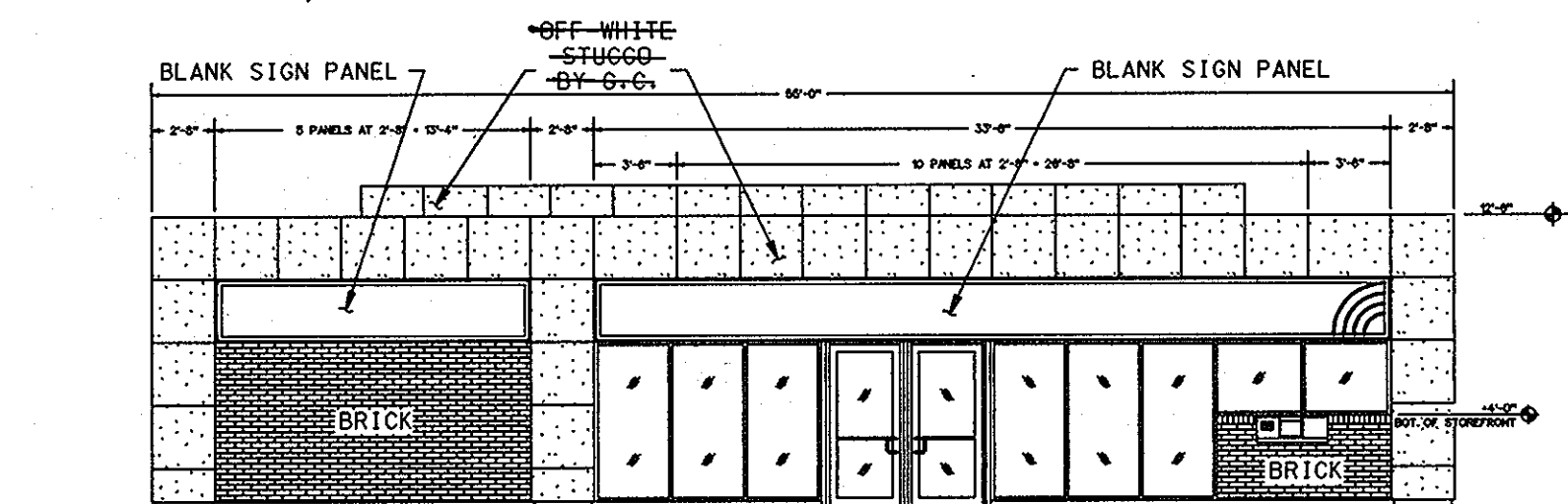


FRONT PERSPECTIVE  
NOT TO SCALE

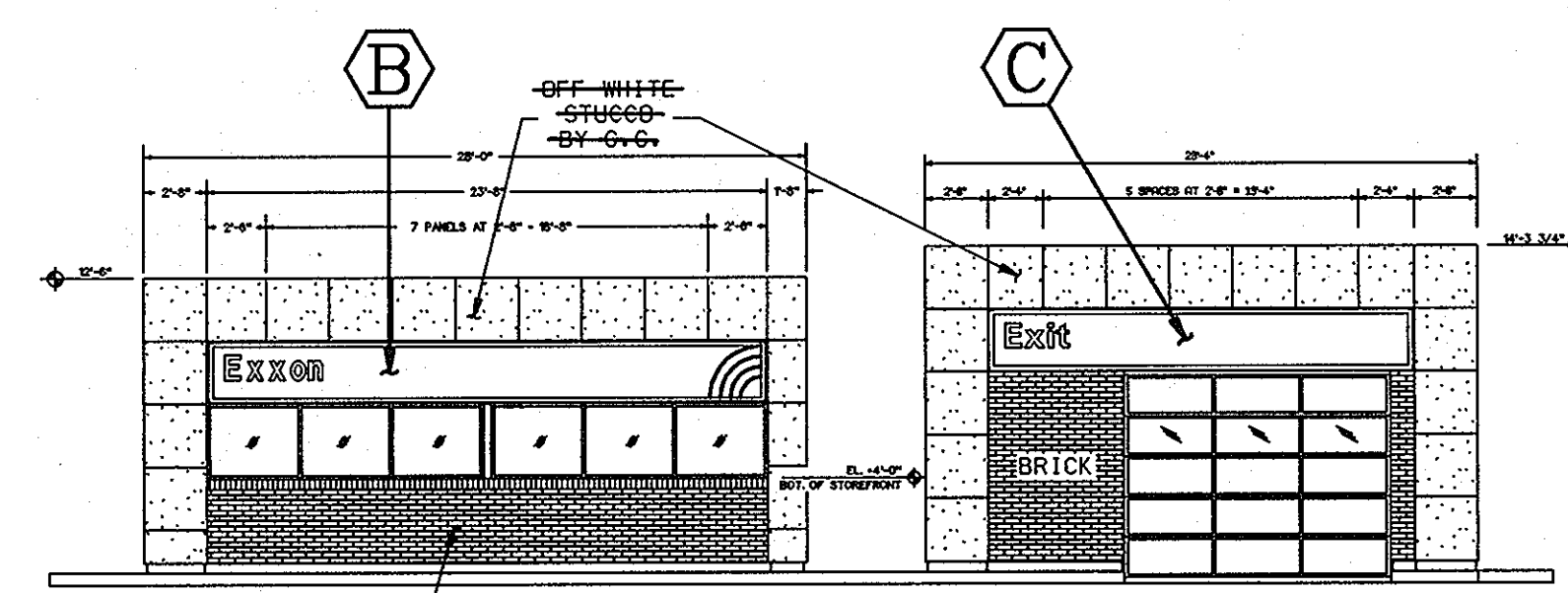
NOTE:  
BUILDING EXTERIORS TO  
BE SPLIT-FACE C.M.U.

NOTE:  
OFF-WHITE COLOR ON METAL AND STUCCO  
TO MATCH SIMILAR OFF-WHITE COLOR  
IN VILLAGE SHOPPING CENTER

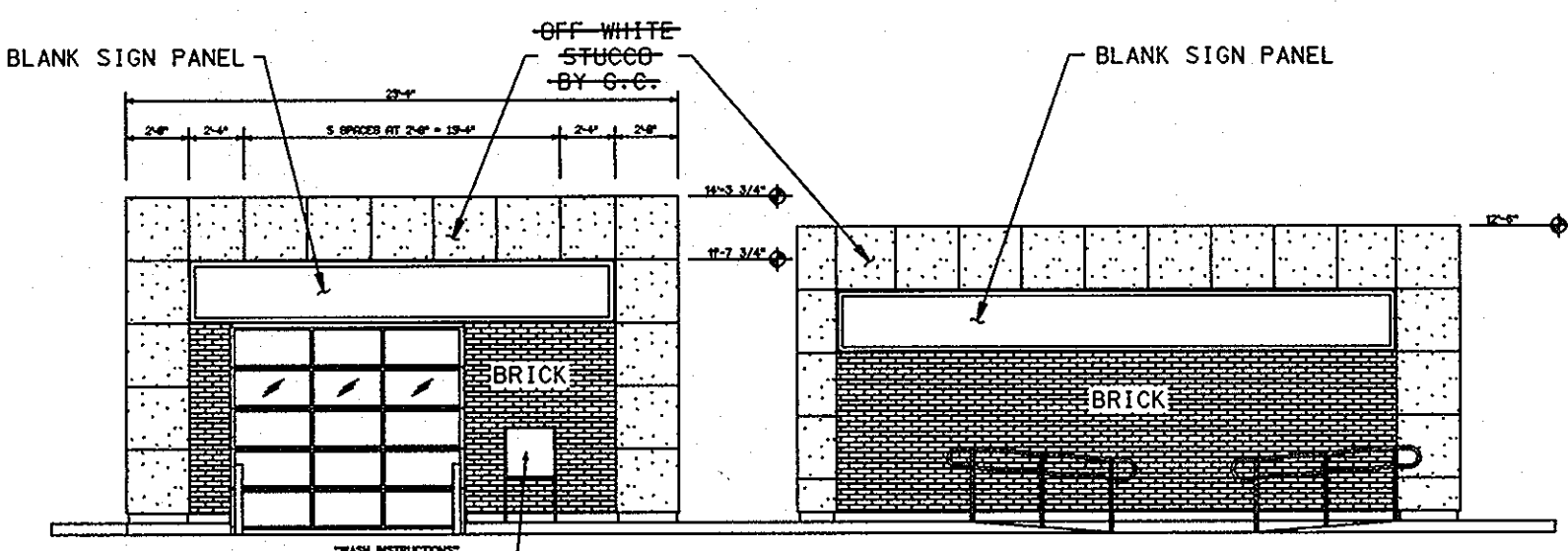
NOTE:  
ALL BRICK SHALL BE BROWN  
SPLIT-FACE CMU SIMILAR TO  
BRICK ON TACO BELL IN  
VILLAGE CENTER. ALL BRICK TO  
BE FURNISHED AND INSTALLED  
BY GENERAL CONTRACTOR



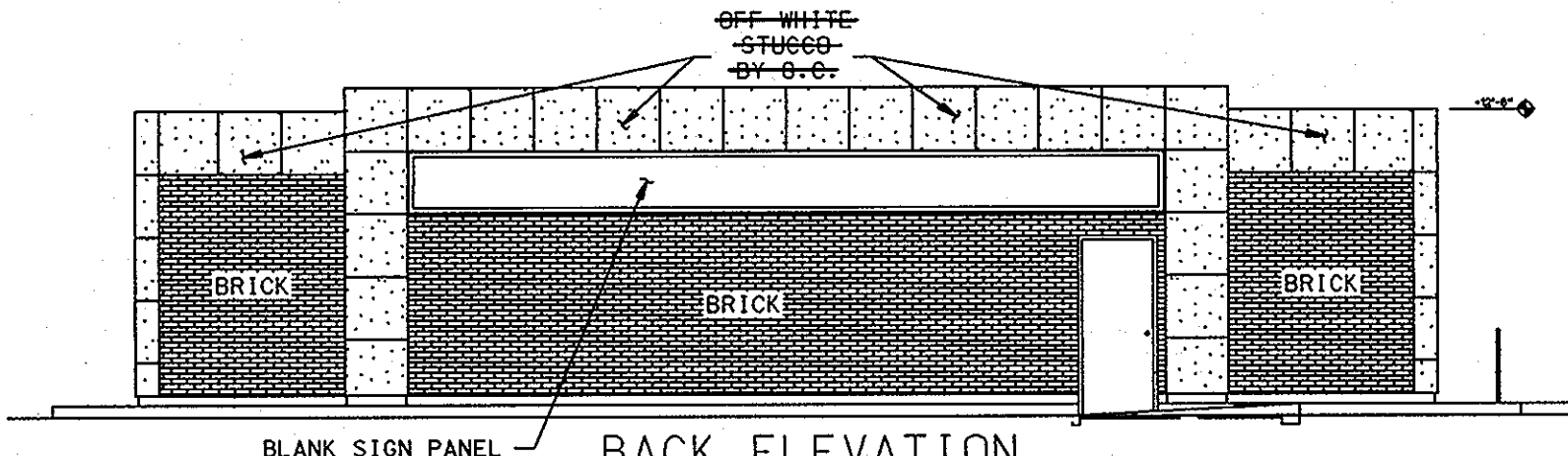
FRONT ELEVATION  
SCALE: 1/8" = 1'-0"



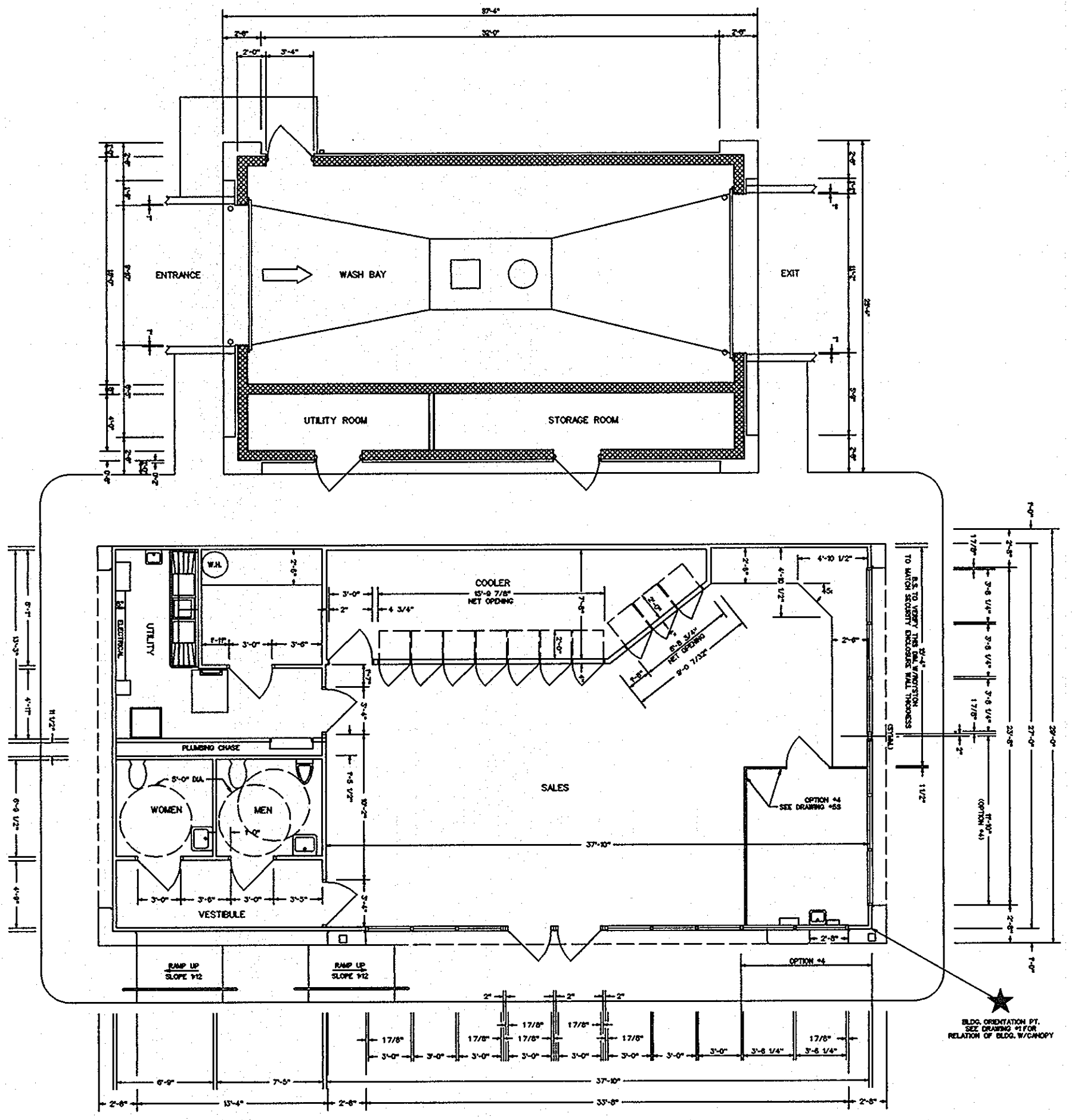
RIGHT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



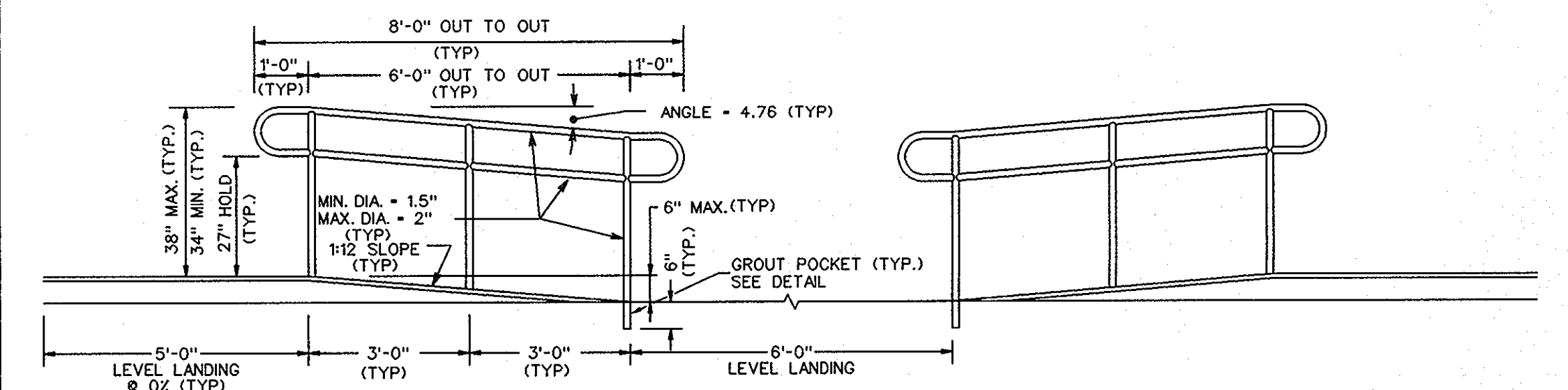
LEFT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



BACK ELEVATION  
SCALE: 1/8" = 1'-0"

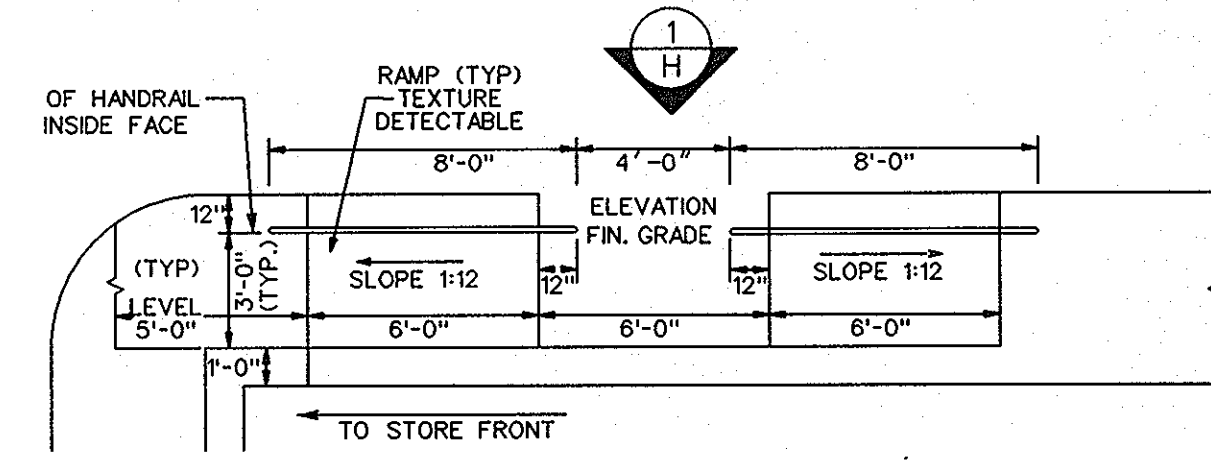


PLAN VIEW  
SCALE: 1/8" = 1'-0"

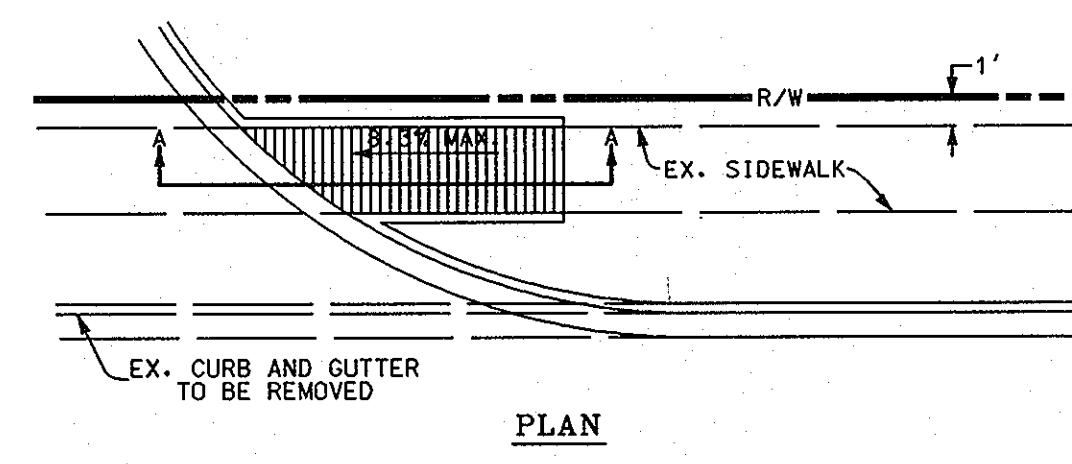


HANDRAIL SPECIFICATIONS:  
1. MATERIAL: 1.25" OR 1.5" LD. SCH. 40 ALUMINUM OR STEEL PIPE.  
2. FINISH: NATURAL OR HARD COAT BLACK ANODIZED OR SEMI GLOSS BLACK PAINTED.  
3. ALL WELDS SHALL BE GROUND SMOOTH.  
4. APPROVED MANUFACTURERS: LOCAL FABRICATION OR CRANEVEYOR CORP. (818) 442-1524  
MODEL No. C4300 OR MOUTRIE MFG. CO. (800) 841-8674 WESRAIL SYSTEM.

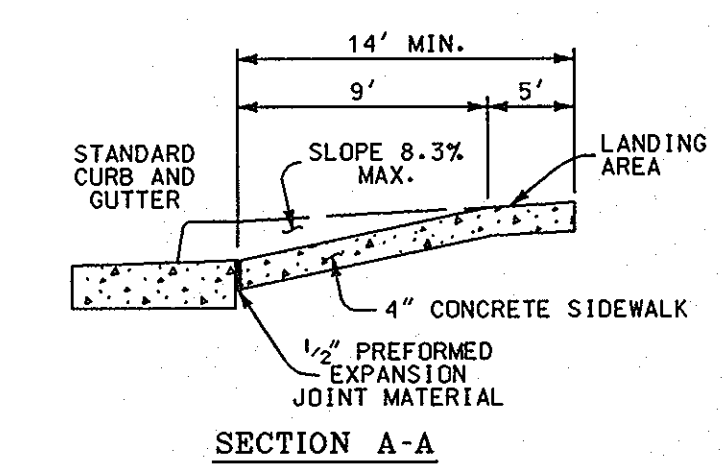
HANDRAIL ELEVATION



HANDICAP RAMP DETAIL  
H.C. RAMP DETAILS FOR C-STORE  
NOT TO SCALE



PLAN



SECTION A-A  
HANDICAP RAMP DETAIL  
NOT TO SCALE  
SEE HOWARD COUNTY STANDARDS R-6.10 & R-6.12

SDP-95-117  
PLANNING BOARD APPROVAL  
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 9/13/95

8/2/95 DATE  
STATE OF MARYLAND  
TIMOTHY P. WHITTIE  
PROFESSIONAL ENGR. NO. 19155

DATE	NUMBER	REVISION DESCRIPTION
11/1/95		DATE
11/6/95		DATE
11/6/95		DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
CHIEF-DEVELOPMENT ENGINEERING DIVISION MK

APPROVED: CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH  
DIRECTOR

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

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

DEVELOPER: EXXON COMPANY, U.S.A.  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. MIKE SPECHT  
PHONE: (301) 513-7511

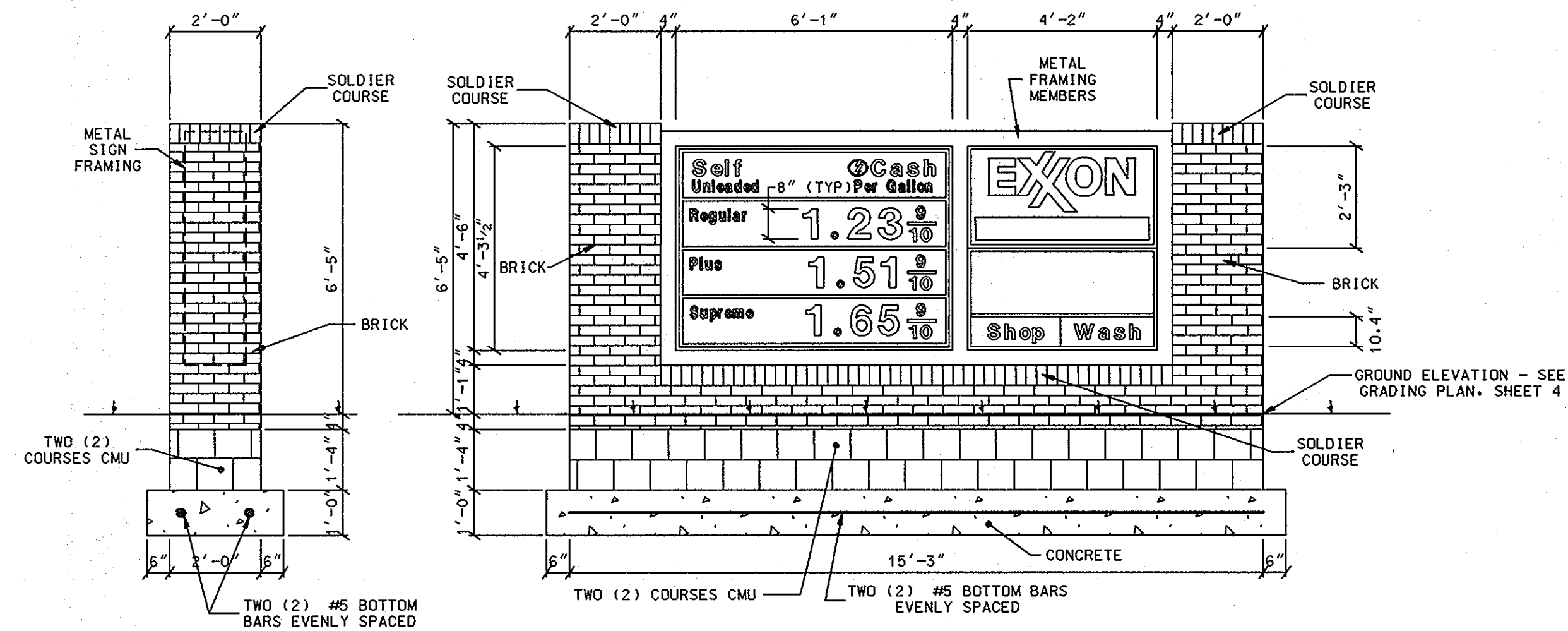
FREDERICK WARD ASSOCIATES INC.  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

FWA JOB NUMBER 93288 FWA DRAWING FILE NAME C06L0311

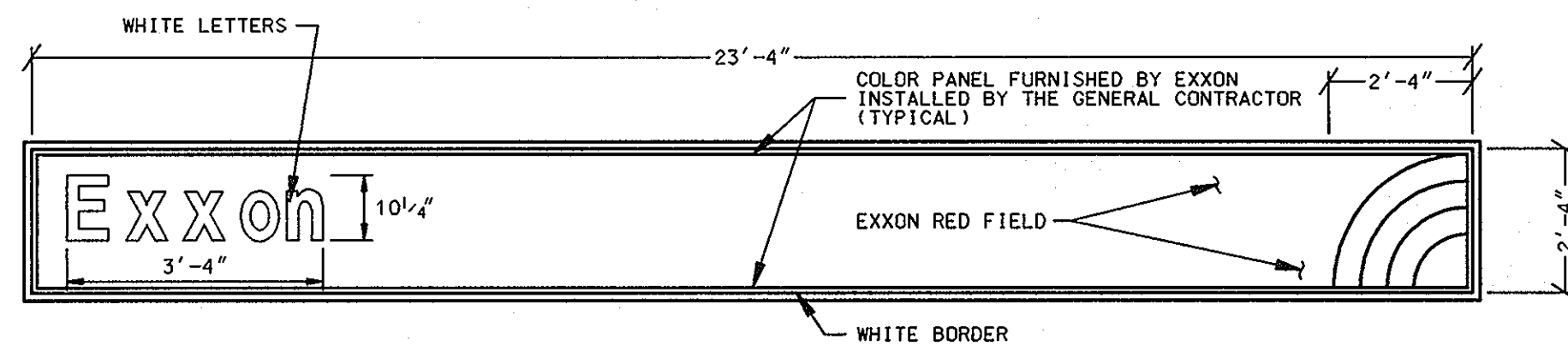
AREA: VILLAGE OF LONG REACH  
SECTION 1 AREA 5  
TAX MAP 36 PARCEL C  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION AT PARCEL C BUILDING PLAN

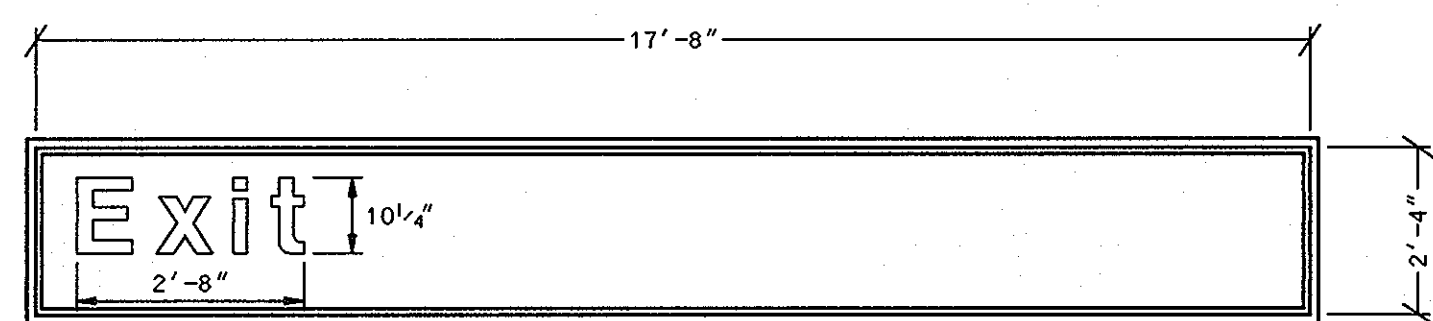
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DRAWN BY: MSM DATE: 03/10/1995 DRAWING NUMBER  
CHECKED BY: TFW APPROVED: 11 OF 16



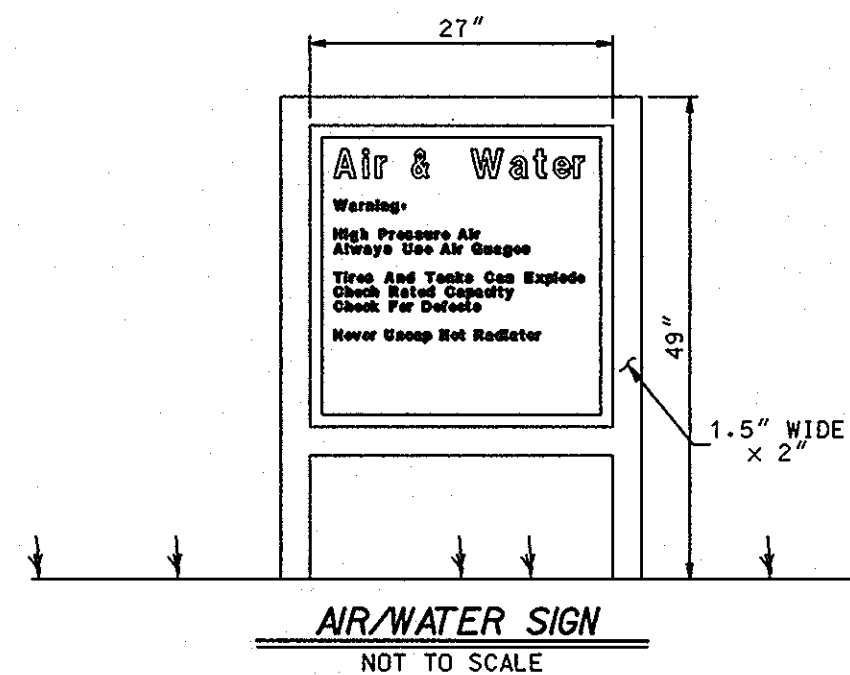
**A** FREE-STANDING SIGN DETAIL  
 INTERNALLY ILLUMINATED, SINGLE FACE  
 SCALE: 3/8" = 1'-0"



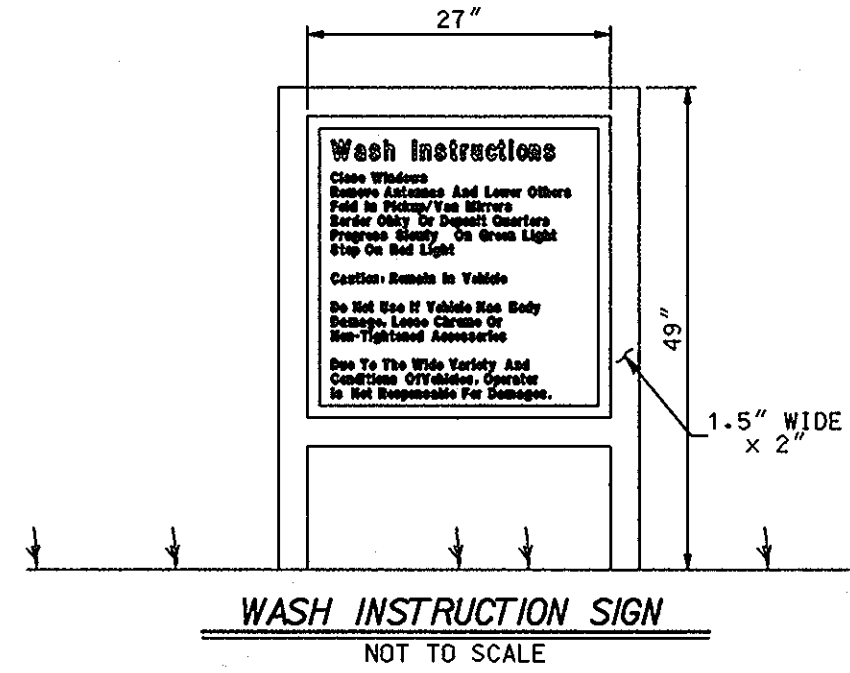
**B** PROPOSED SIDE BUILDING SIGN - 8.27 SQ.FT. (LETTERS & LOGO ONLY)  
 INTERNALLY ILLUMINATED, SINGLE FACE  
 SCALE: 3/8" = 1'-0"



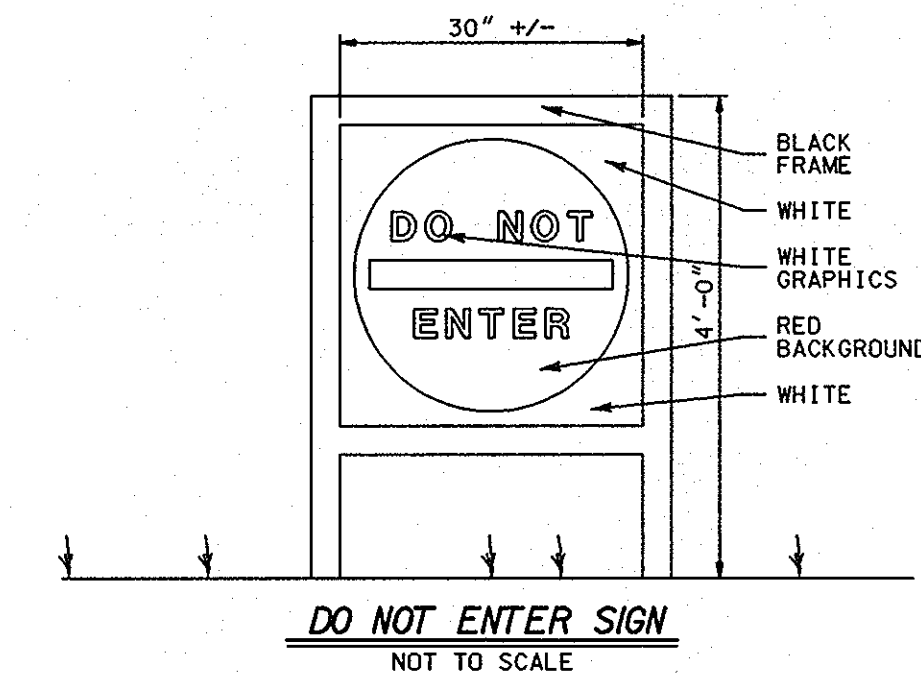
**C** PROPOSED WASH SIGN - 2.28 SQ.FT. (LETTERS ONLY)  
 INTERNALLY ILLUMINATED, SINGLE FACE  
 SCALE: 3/8" = 1'-0"



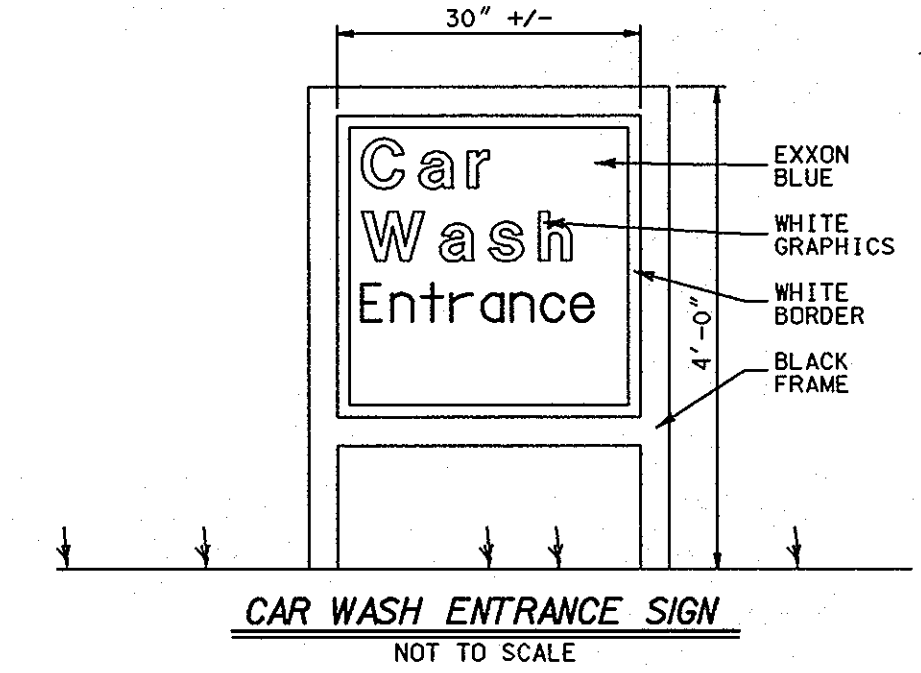
**AIR/WATER SIGN**  
 NOT TO SCALE



**WASH INSTRUCTION SIGN**  
 NOT TO SCALE



**DO NOT ENTER SIGN**  
 NOT TO SCALE



**CAR WASH ENTRANCE SIGN**  
 NOT TO SCALE

**SIGNAGE CALCULATIONS**

PERMITTED PER HOWARD COUNTY CODE AND APPROVED BY HRD ON A CASE-BY-CASE BASIS:

1. FREESTANDING SIGN

A. PERMITTED:

HEIGHT = 1 FT PER EACH 2 FT SIGN IS SETBACK FROM R/W, 26' MAX  
 = 13/2 X 1 = 6'6"  
 AREA = 1 SQ FT FOR EACH FT SIGN IS SETBACK FROM R/W  
 = 13 SQ FT (32 SQ FT ALLOWED FOR PRICE NOT INCLUDED IN CALCS)

B. PROPOSED:

HEIGHT = 6'5"  
 AREA = 9.38 SQ FT (EXXON PANEL ONLY)

2. BUILDING SIGNS

A. PERMITTED:

AREA = 2 SQ FT FOR EACH LF OF BUILDING FRONTAGE PLUS  
 1 SQ FT FOR EACH ADDITIONAL LF OF BUILDING FRONTAGE  
 FOR MULTIPLE FRONTAGE  
 = 55 LF X 2 SQ FT + 51 LF X 1 SQ FT = 161 SQ FT

B. PROPOSED:

AREA = 10.55 SQ FT

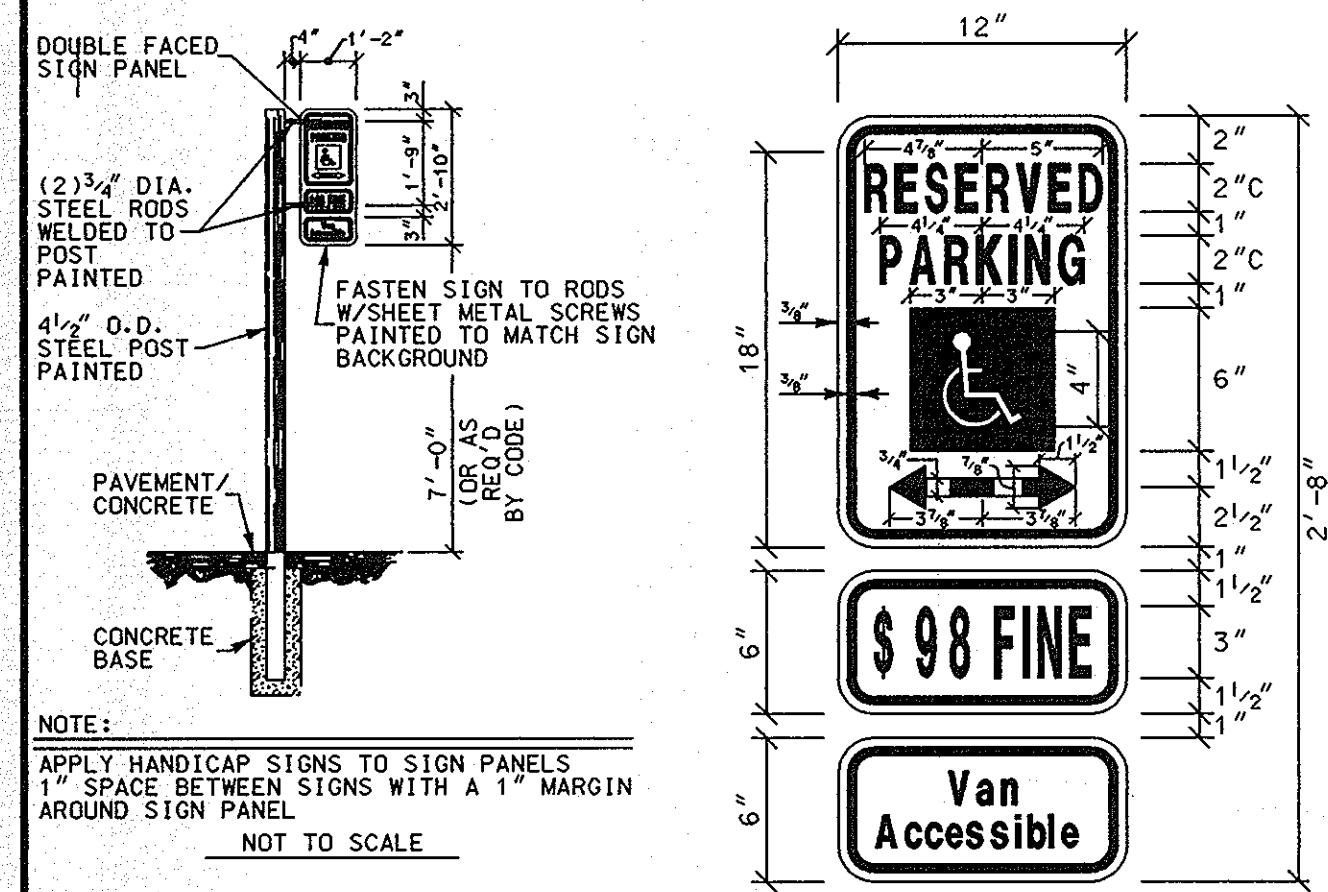
SDP-95-117  
 PLANNING BOARD APPROVAL

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9/13/95

8/2/95  
 DATE

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

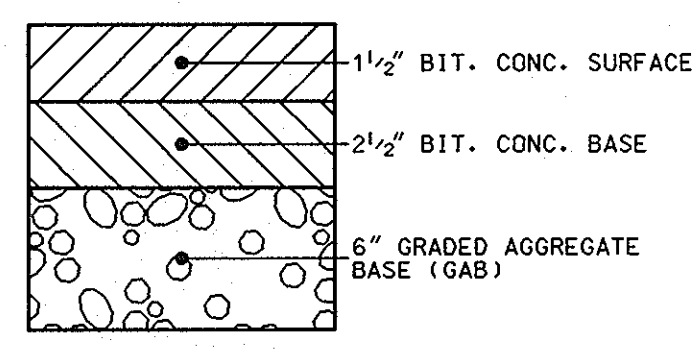
DATE:	NUMBER	REVISION DESCRIPTION
APPROVED:	DEPARTMENT OF PLANNING AND ZONING	
<i>Mike D...</i>		11/1/95
CHIEF-DEVELOPMENT ENGINEERING DIVISION	DATE	
<i>Anna...</i>		11/6/95
CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH	DATE	
<i>James...</i>		11/6/95
PRECIPIT	DATE	
APPROVED:	FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS	HOWARD COUNTY HEALTH DEPARTMENT.
<i>James M. Boyd</i>		11/3/95
COUNTY HEALTH OFFICER	DATE	
OWNER:	THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION	
	THE ROUSE BUILDING	
	10275 LITTLE PATUXENT PARKWAY	
	COLUMBIA, MARYLAND 21044	
	LIBER 1535 / FOLIO 193	
DEVELOPER:	EXXON COMPANY, U.S.A.	
	6301 IVY LANE	
	SUITE 700	
	GREENBELT, MARYLAND 20770	
	ATTN: MR. MIKE SPECHT	
	PHONE: (301)-513-7511	
	FREDERICK WARD ASSOCIATES INC.	
	ENGINEERS ARCHITECTS SURVEYORS	
	5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090	
AREA	VILLAGE OF LONG REACH	
	SECTION 1 AREA 5	
	TAX MAP 36 PARCEL C	
	6 TH. ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	FOR AN EXXON STATION	
	AT PARCEL C	
	SIGNAGE DETAIL SHEET	
DESIGN BY:	JBG	SCALE: AS SHOWN PROJECT NO.:
DRAWN BY:	MSM	DATE: 03/07/1995 DRAWING NUMBER
CHECKED BY:	TFW	APPROVED: 12 OF 16



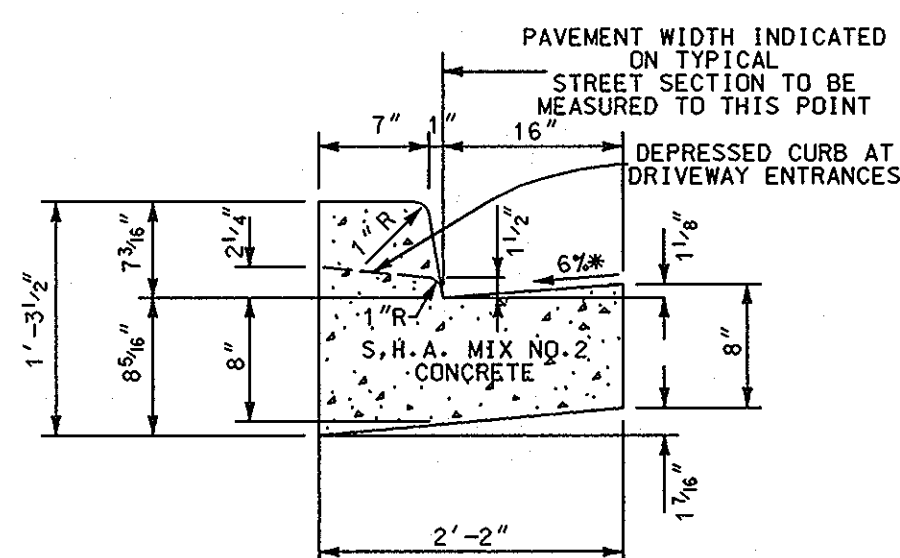
**COLORS:**  
 LEGEND AND BORDER - GREEN  
 WHITE SYMBOL ON BLUE BACKGROUND  
 BACKGROUND - WHITE

**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.  
 SCALE: 1 1/2" = 1'-0"

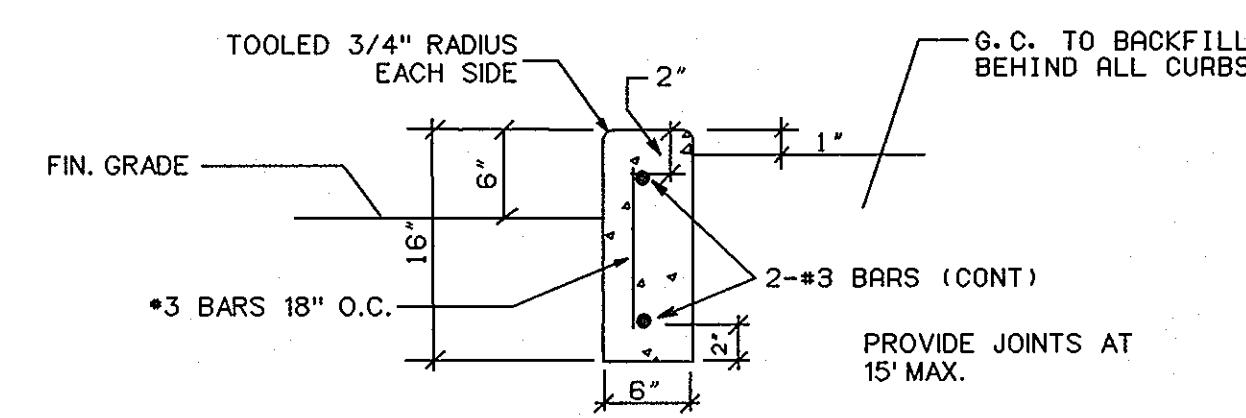
**HANDICAP SIGN DETAILS**



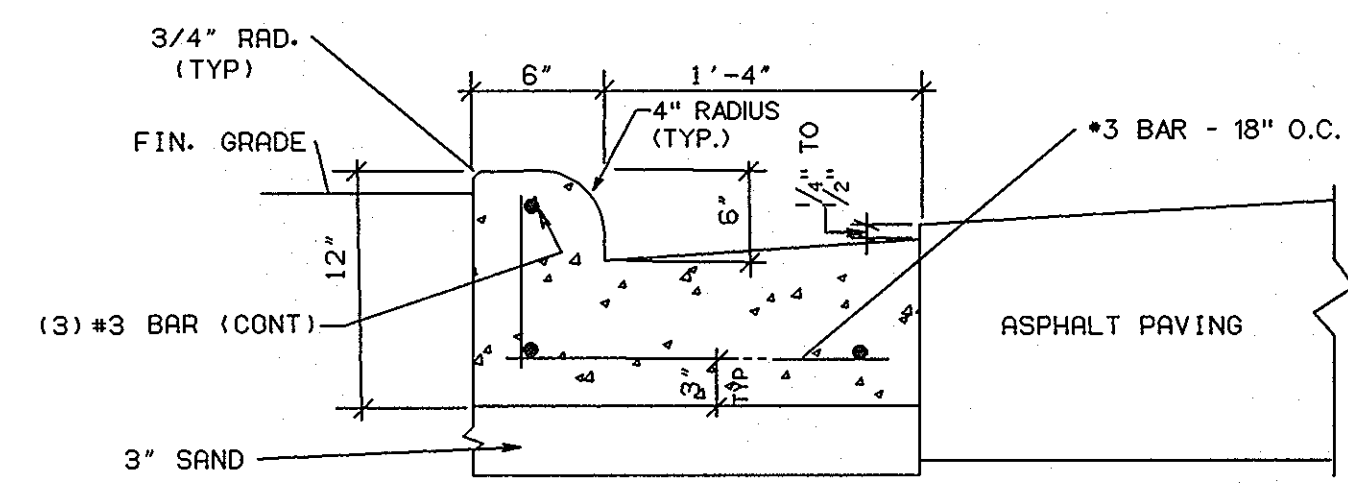
**PAVING SECTION**  
 HOWARD COUNTY STD. DETAIL R-2.01  
 SECTION NUMBER P-2  
 NOT TO SCALE



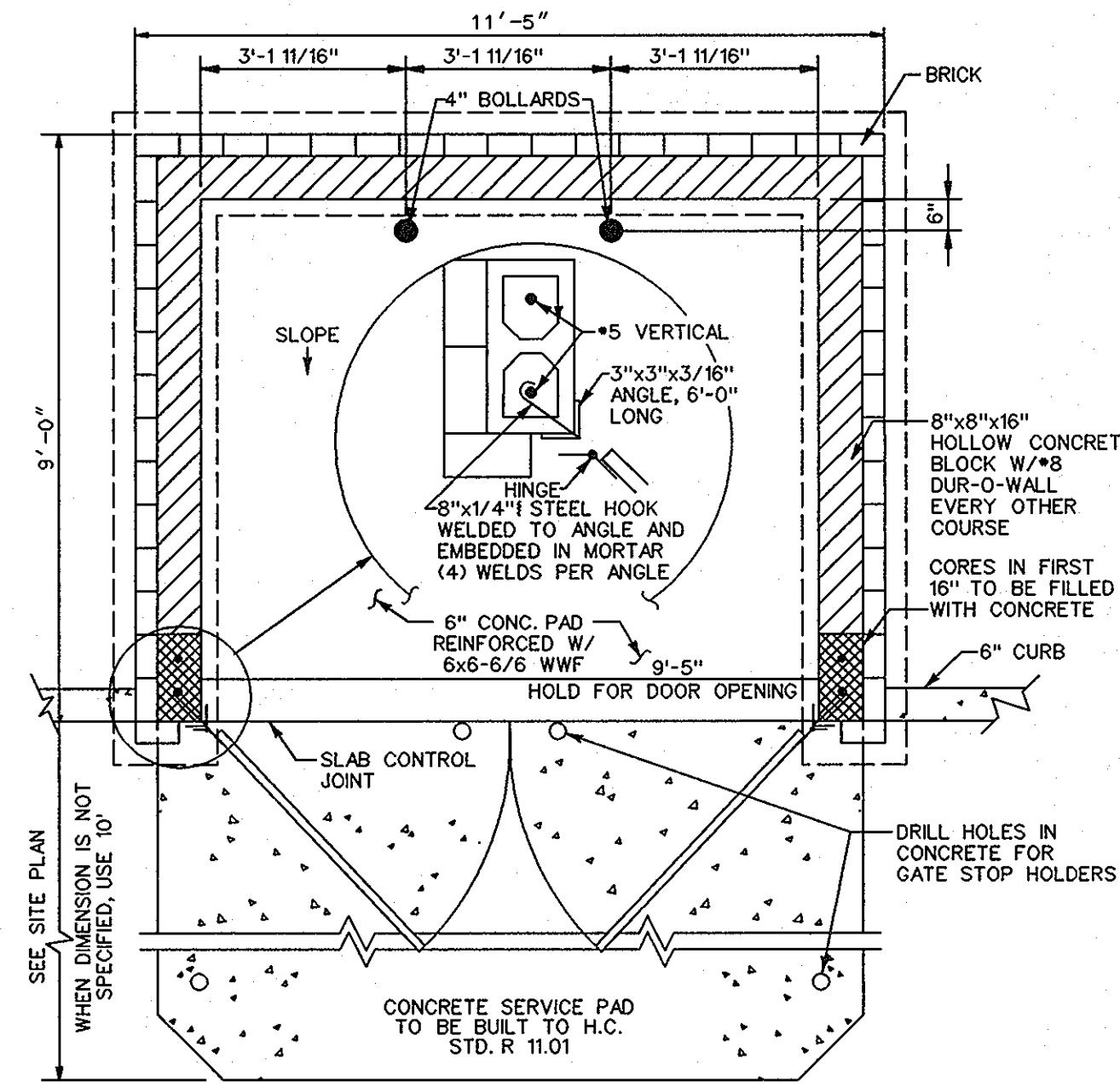
**STANDARD 7" COMBINATION CURB AND GUTTER**  
 HOWARD COUNTY STD. DETAIL R-3.01  
 NOT TO SCALE



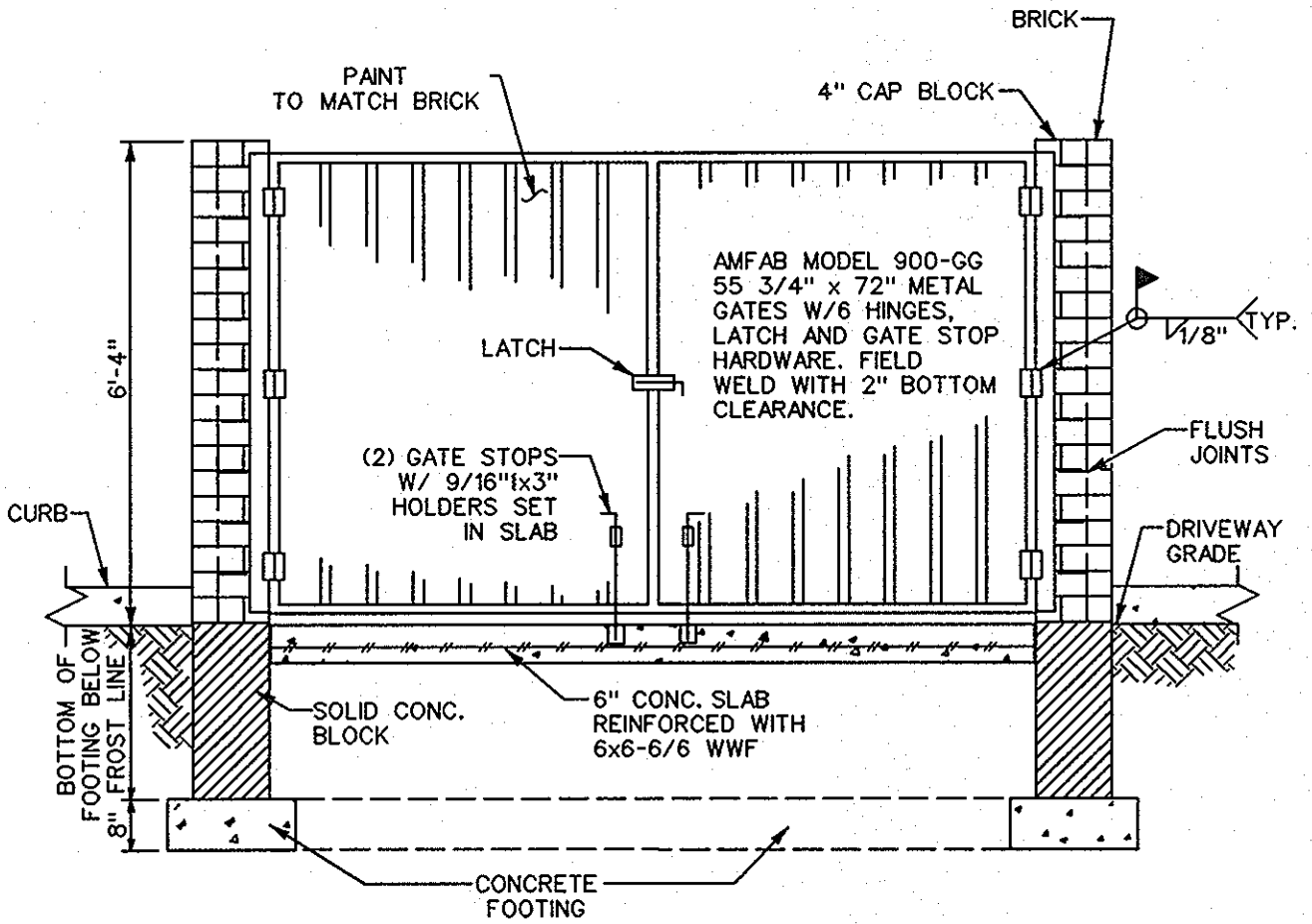
**6"X16" CONCRETE CURB**  
 NOT TO SCALE



**CURB AND GUTTER**  
 NOT TO SCALE

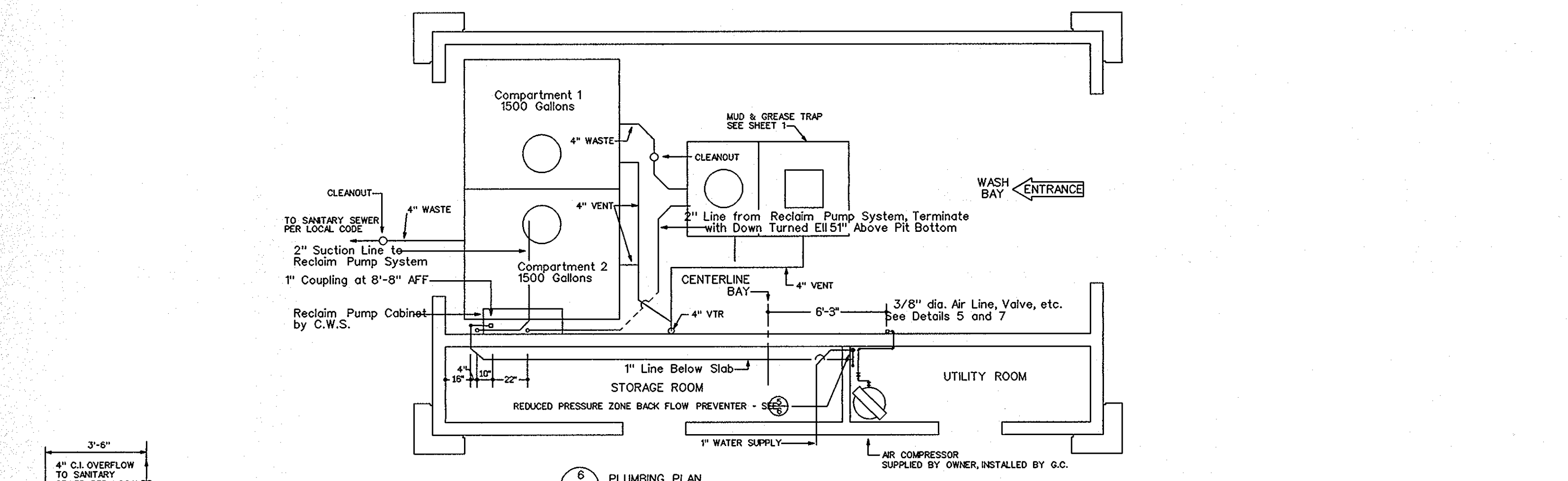


**PLAN**

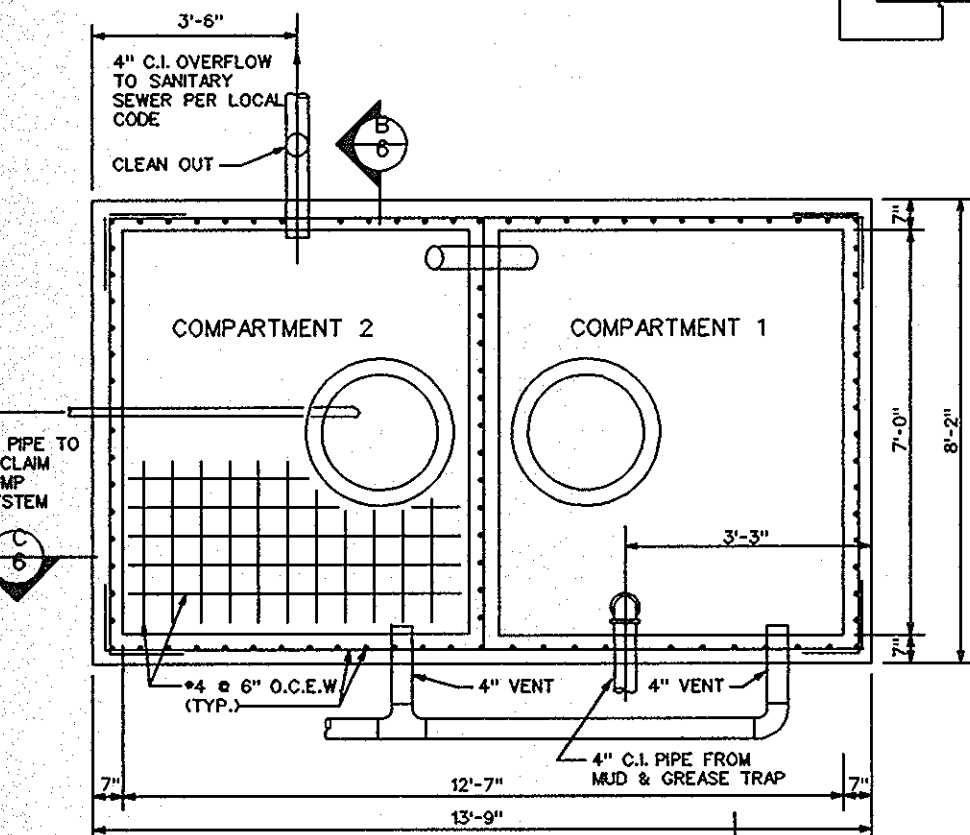


**ELEVATION**

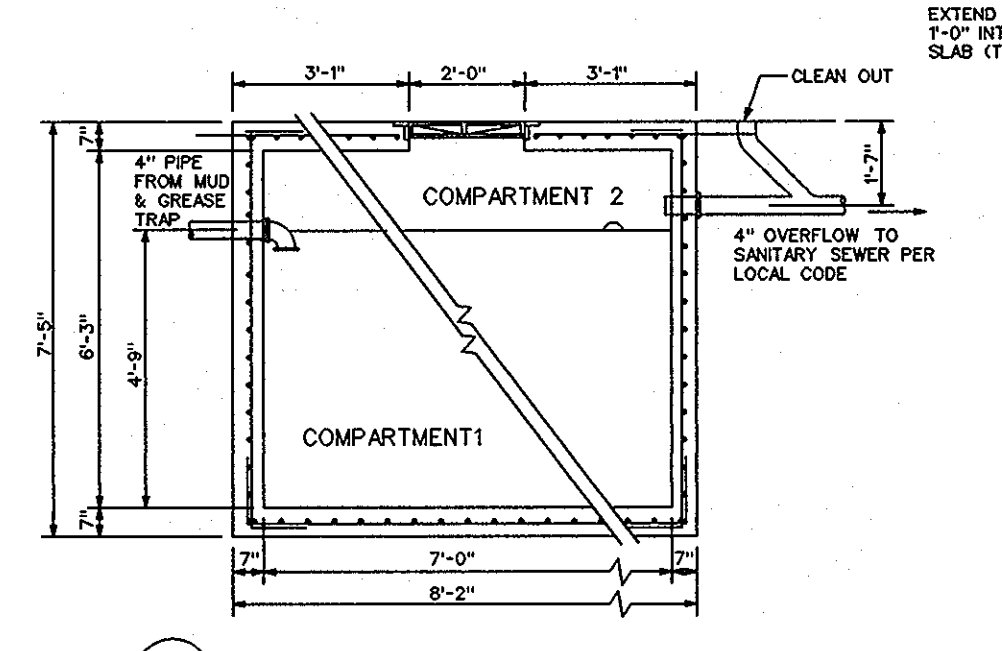
**TRASH ENCLOSURE DETAIL**  
 NOT TO SCALE



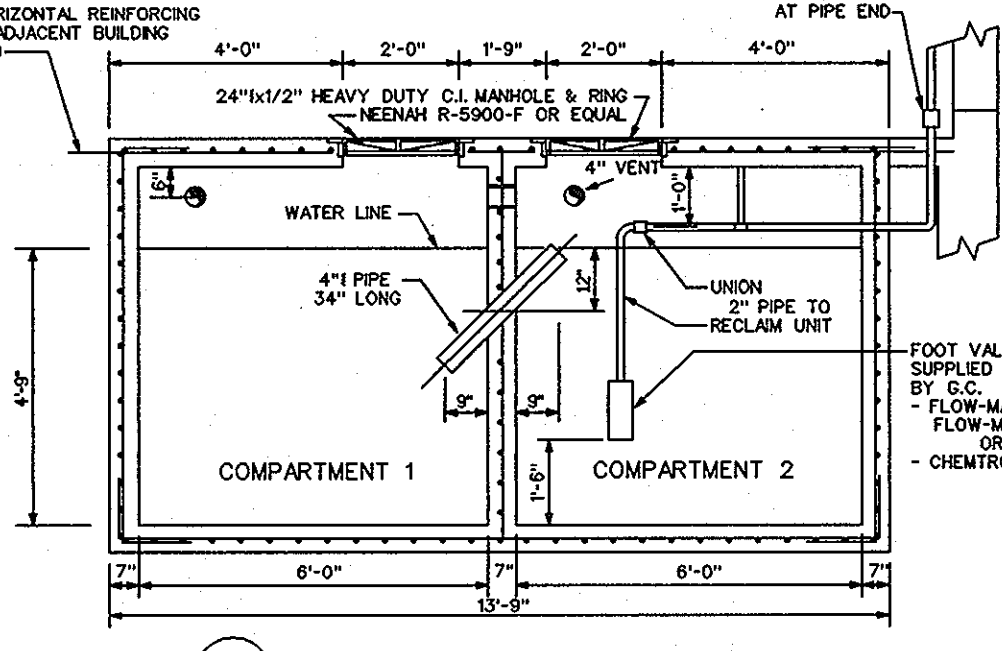
**PLUMBING PLAN**



**RECLAIM TANK**



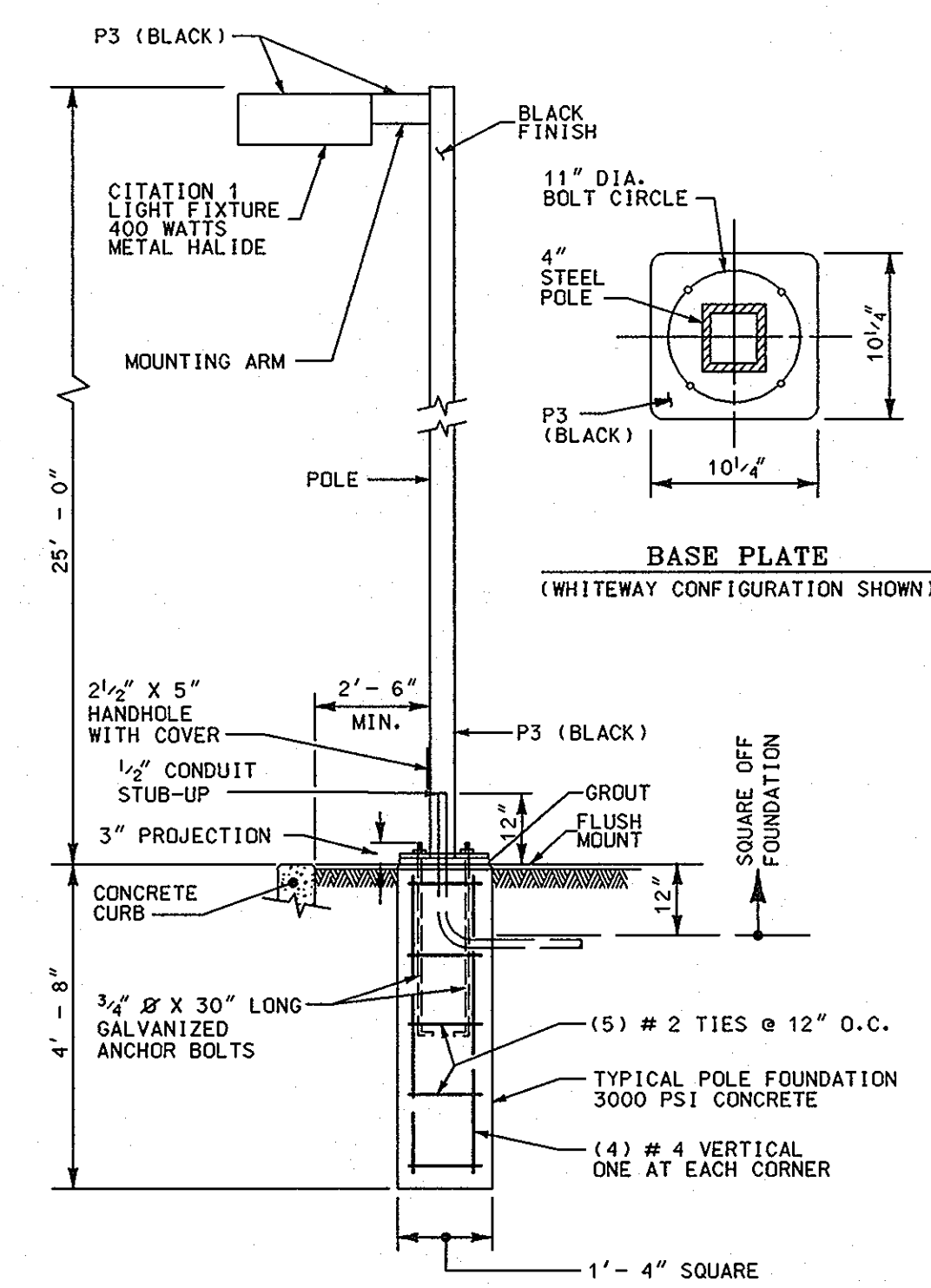
**RECLAIM TANK**



**RECLAIM TANK**

**CAR WASH RECYCLING SYSTEM**  
 NOT TO SCALE

1500 GALLONS EACH COMPARTMENT  
 (WATER PRECIPITANTS MEETING THESE DWG. SPECIFICATIONS ARE ACCEPTABLE)



**ELEVATION**

**TYPICAL YARD LIGHT DETAIL**  
 NOT TO SCALE

SDP-95-117  
 PLANNING BOARD APPROVAL

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**

DATE: 9/13/95

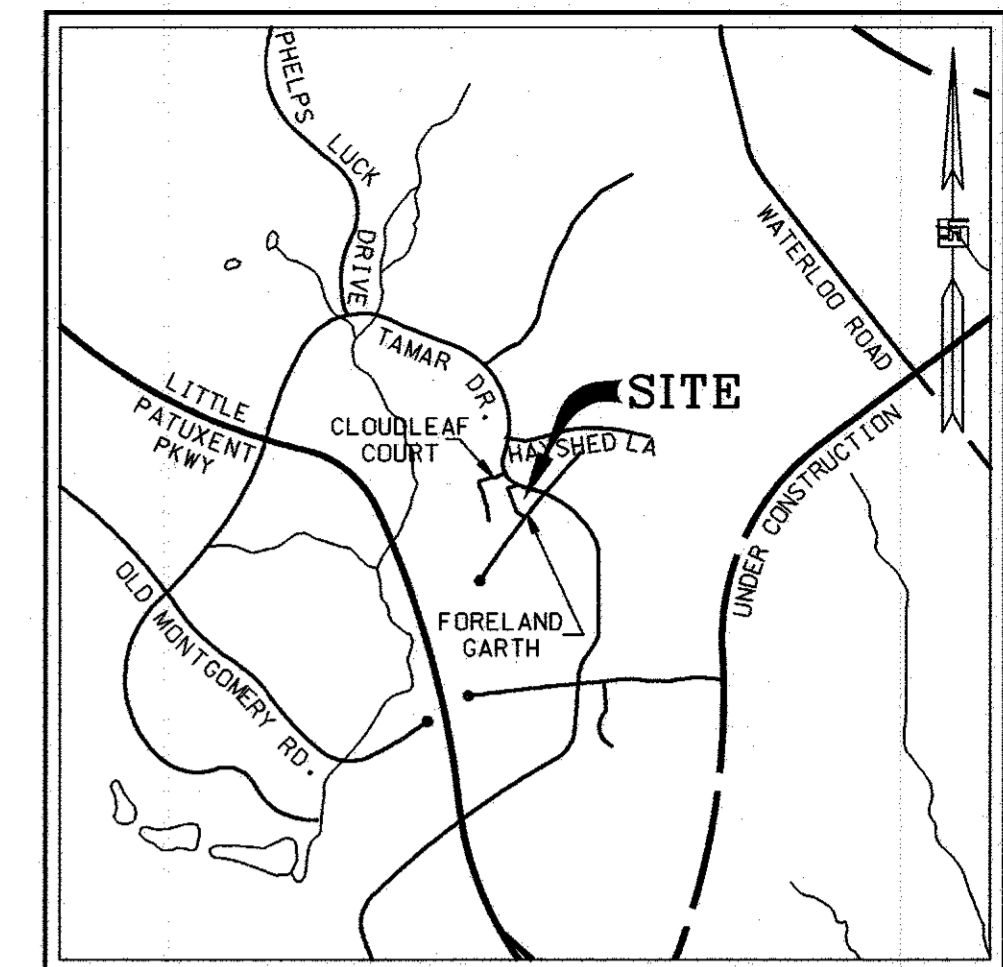


DATE: 8/21/95  
 TIMOTHY F. WHITTLE  
 PROFESSIONAL ENGR. NO. 19155

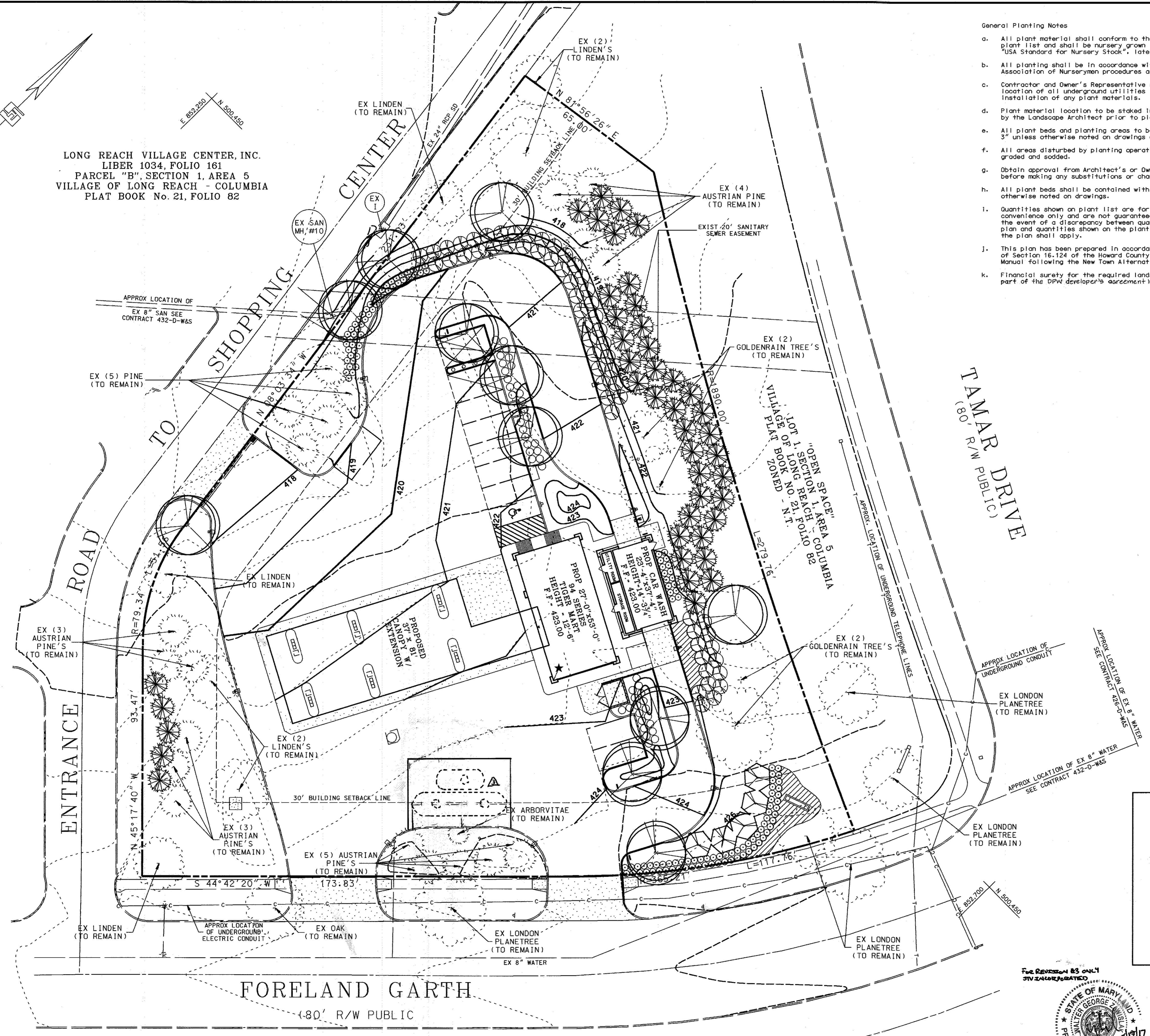
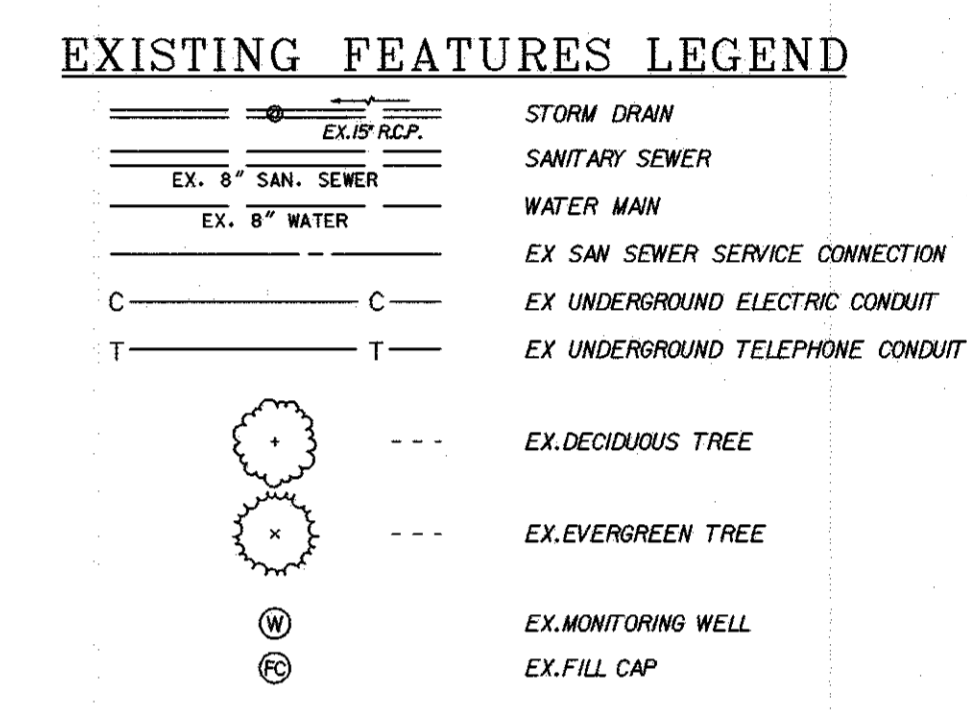
DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF-DEVELOPMENT ENGINEERING DIVISION MK
4/1/95		DATE
		CHIEF-DIVISION & LAND DEVELOPMENT & RESEARCH
11/6/95		DATE
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
		HOWARD COUNTY HEALTH DEPARTMENT.
		APPROVED: 11/3/95
		COUNTY HEALTH OFFICER
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION		
THE ROUSE BUILDING		
10275 LITTLE PATUXENT PARKWAY		
COLUMBIA, MARYLAND 21044		
LIBER 1535 / FOLIO 193		
DEVELOPER: EXON COMPANY, U.S.A.		
6301 IVY LANE		
SUITE 700		
GREENBELT, MARYLAND 20770		
ATTN: MR. MIKE SPECHT		
PHONE: (301)-513-7511		
FREDERICK WARD ASSOCIATES INC.		
ENGINEERS ARCHITECTS SURVEYORS		
5 SOUTH MAIN STREET BEL. AR. MARYLAND 21014 (410)879-2090		
FWA JOB NUMBER 03288 FWA DRAWING FILE NAME CSDTDL		
AREA: VILLAGE OF LONG REACH		
SECTION 1 AREA 5		
TAX MAP 36 PARCEL C		
6 TH. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: FOR AN EXXON STATION AT PARCEL C SITE DETAILS		
DESIGN BY: JBG	SCALE: AS SHOWN	PROJECT NO.:
DRAWN BY: KDN	DATE: 04/27/1995	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	13 OF 16

LONG REACH VILLAGE CENTER, INC.  
 LIBER 1034, FOLIO 161  
 PARCEL "B", SECTION 1, AREA 5  
 VILLAGE OF LONG REACH - COLUMBIA  
 PLAT BOOK No. 21, FOLIO 82

- General Planting Notes
- All plant material shall conform to the sizes given in the plant list and shall be 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 operations shall be fine graded and sodded.
  - Obtain approval from Architect's or Owner's Representative before making any substitutions 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 quantities shown on the plant list, the quantities on the plan shall apply.
  - This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual following the New Town Alternative Compliance Method.
  - Financial surety for the required landscaping has been posted as part of the DPW developer's agreement in the amount of \$6,900.00.



VICINITY MAP  
 SCALE: 1" = 2000'



SDP-95-117  
 PLANNING BOARD APPROVAL

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9/13/95

4-18-17	REVISE FUEL TANKS, DISPENSER PUMPS & AGGRAVATED RESPONSE	
DATE:	NUMBER	REVISION DESCRIPTION
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
<i>John Dammann</i>	11/1/95	DATE
CHIEF DEVELOPMENT ENGINEERING DIVISION MK		
<i>Gina Summy</i>	11/6/95	DATE
CHIEF DIVISION & LAND DEVELOPMENT & RESEARCH MK		
<i>James S. Suter</i>	11/6/95	DATE
DIRECTOR		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joyce M. Boyd</i>	11/3/95	DATE
COUNTY HEALTH OFFICER		

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 THE ROUSE BUILDING  
 10275 LITTLE PATIENT PARKWAY  
 COLUMBIA, MARYLAND 21044  
 LIBER 1535 / FOLIO 193

DEVELOPER: **EXXON COMPANY, U.S.A.**  
 6301 IVY LANE  
 SUITE 700  
 GREENBELT, MARYLAND 20770  
 ATTN: MR. MIKE SPECHT  
 PHONE: (301)-513-7511

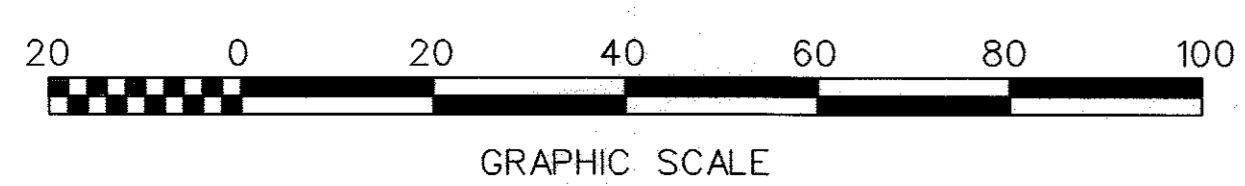
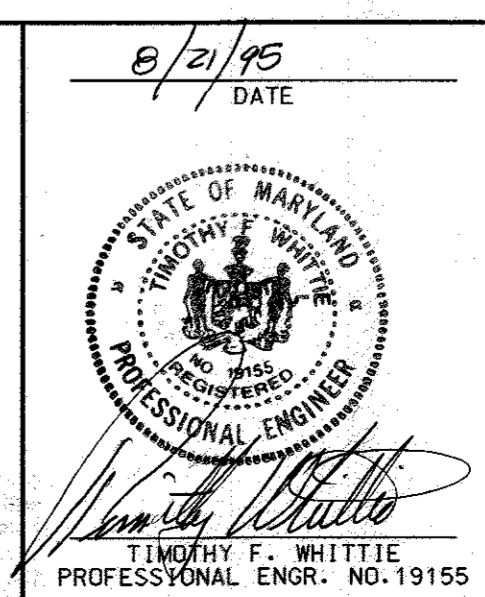
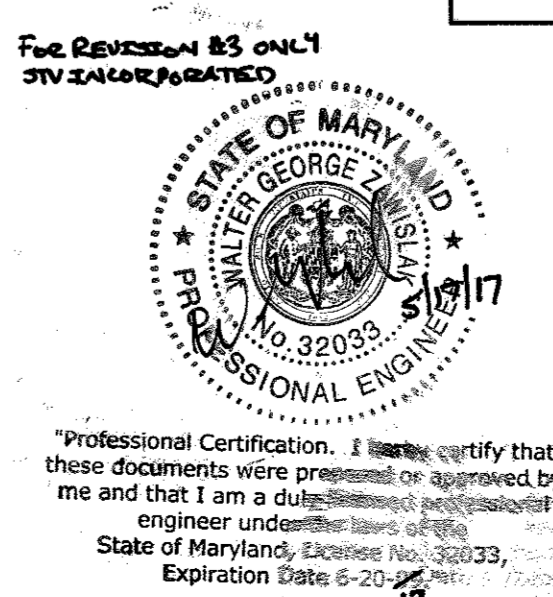
**FREDERICK WARD ASSOCIATES INC.**  
 ENGINEERS ARCHITECTS SURVEYORS  
 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21034 (410)879-2000

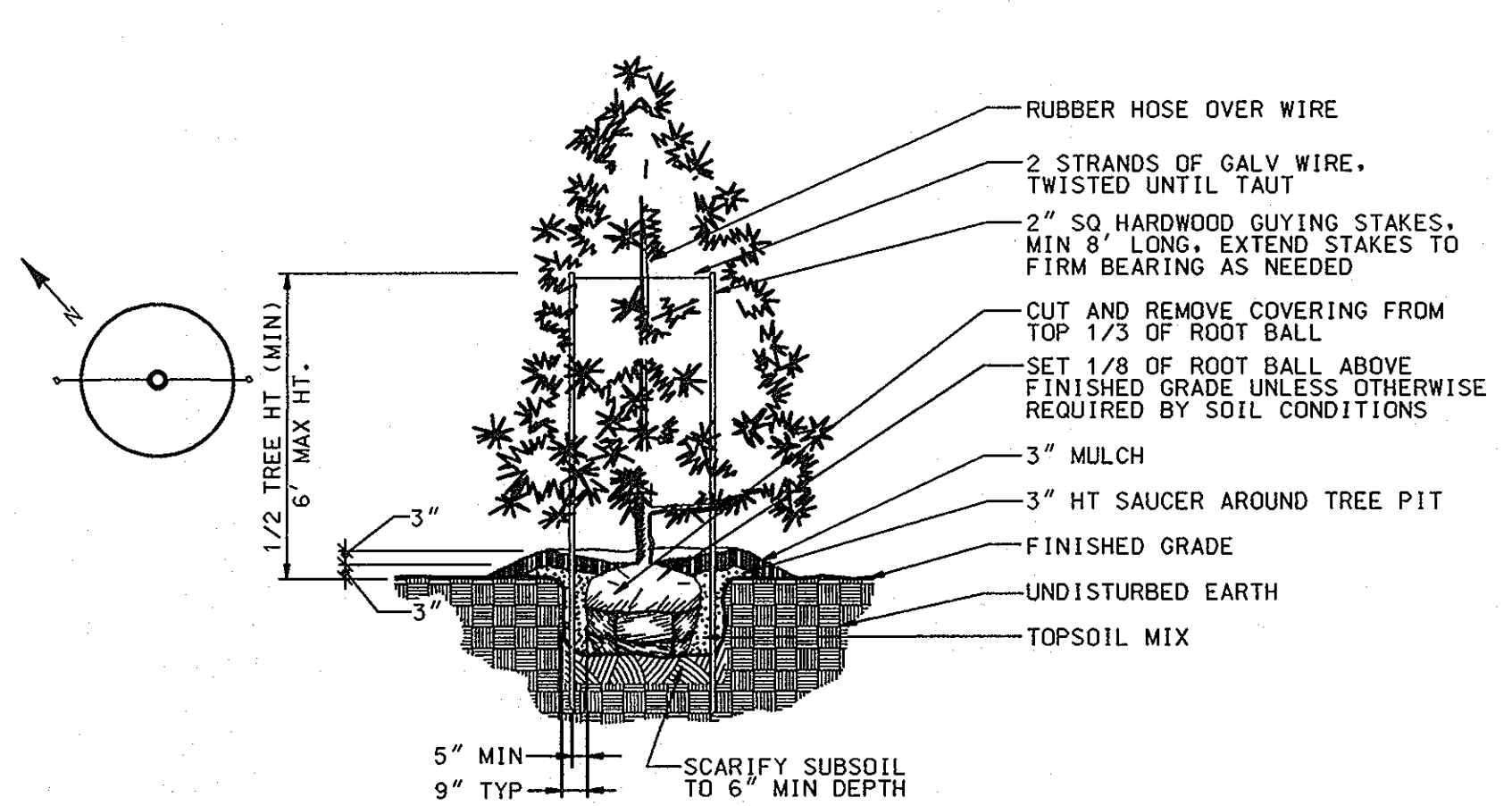
FWA JOB NUMBER 93288 FWA DRAWING FILE NAME COLND14

AREA: VILLAGE OF LONG REACH  
 SECTION 1 AREA 5  
 TAX MAP 36 PARCEL C  
 6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

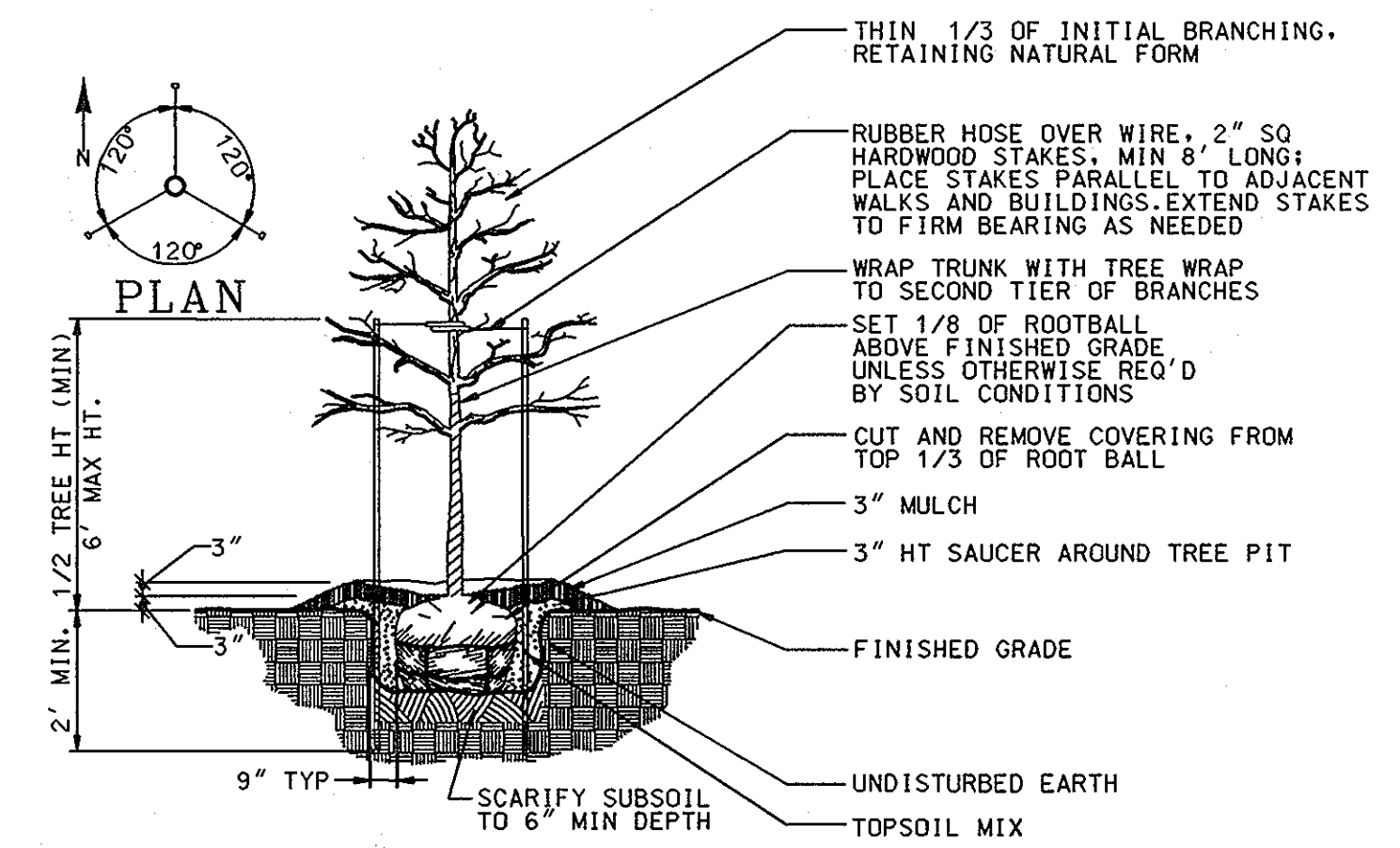
TITLE: FOR AN EXXON STATION AT PARCEL C LANDSCAPE PLAN

DESIGN BY: JBG SCALE: 1" = 20' PROJECT NO.:  
 DRAWN BY: MSM DATE: 03/22/1995 DRAWING NUMBER  
 CHECKED BY: TFW APPROVED: 14 OF 16

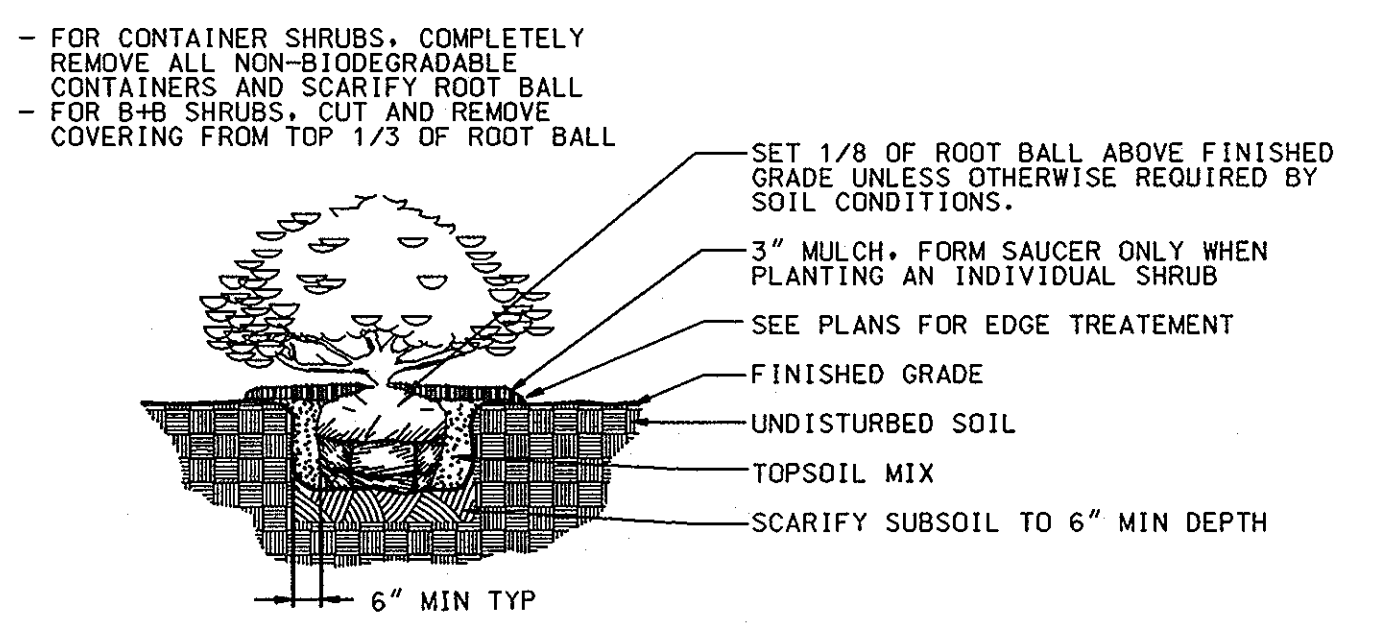




EVERGREEN TREE PLANTING DETAIL



DECIDUOUS TREE PLANTING (UP TO 3\"/>



SHRUB PLANTING DETAIL

LANDSCAPE PLANTINGS				
SYMBOL	QUANTITY	BOTANICAL/Common NAME	SIZE	REMARKS
	11	TILIA CORDATA GREENSPIRE GREENSPIRE LITTLELEAF LINDEN	3\"/>	

SCHEDULE A PERIMETER LANDSCAPE EDGE		
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	D
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	574.18	344.76
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES - 5 DEC. 12 EVERGREEN	YES - 5 DEC. 4 EVERGREEN
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES - BERM 69	NO
NUMBER OF PLANTS REQUIRED	SHADE TREES EVERGREEN TREES SHRUBS	SHADE TREES EVERGREEN TREES SHRUBS
NUMBER OF PLANTS PROVIDED	SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)
COMMENTS:	ADDITIONAL PLANTS PROVIDED AS REPLACEMENT FOR 4 PINES REMOVED ALONG WEST PROPERTY LINE. *** ADDITIONAL PLANT MATERIAL PROVIDED AS REPLACEMENT FOR EXISTING VEGETATION REMOVED ALONG NORTH PROPERTY LINE.	

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	(10 SPACES)
NUMBER OF TREES REQUIRED	1
NUMBER OF TREES PROVIDED	2
SHADE TREES OTHER TREES (2:1 SUBSTITUTION)	

SDP-95-117  
PLANNING BOARD APPROVAL

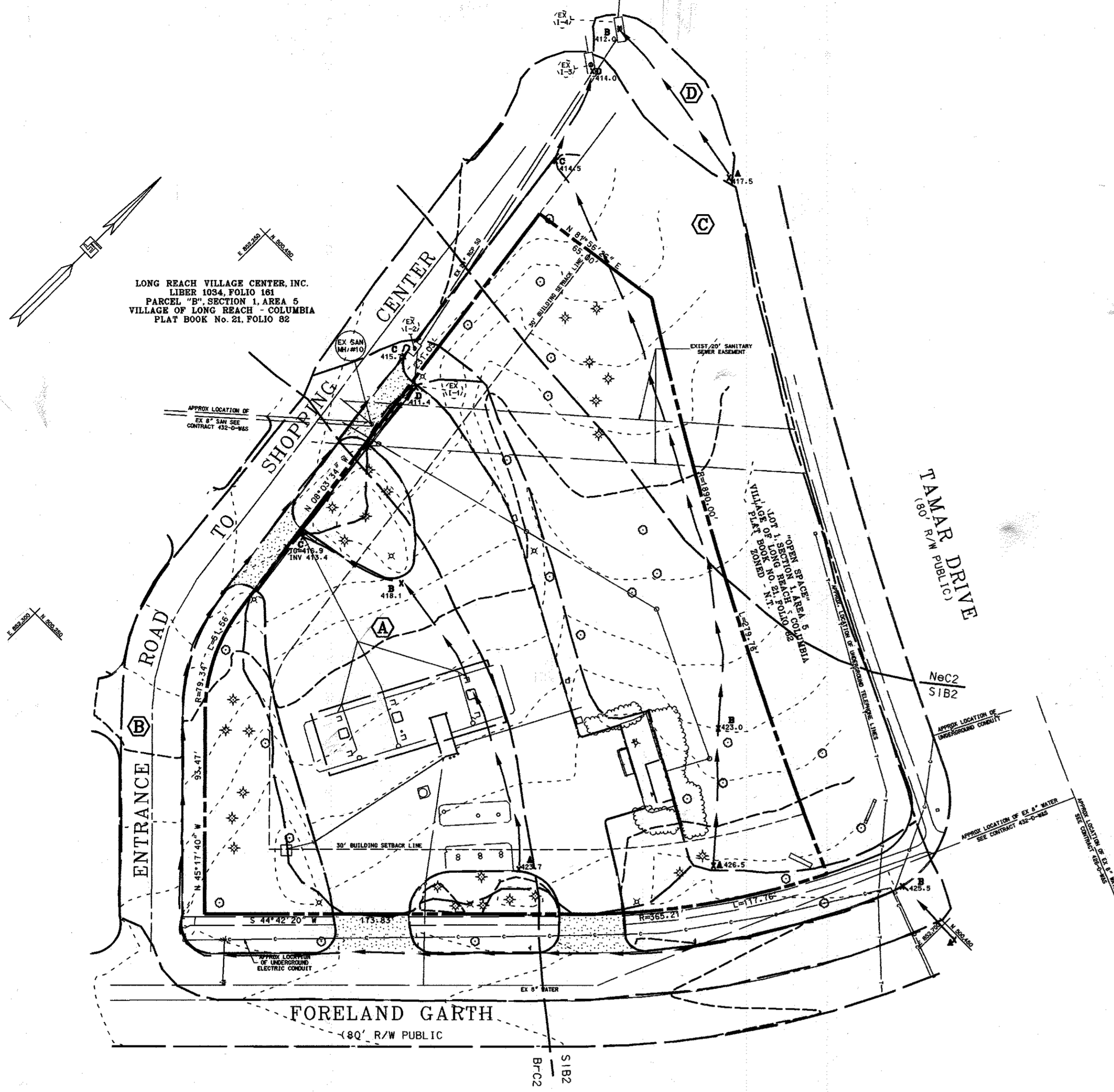
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE: 9/13/95

8/2/95 DATE

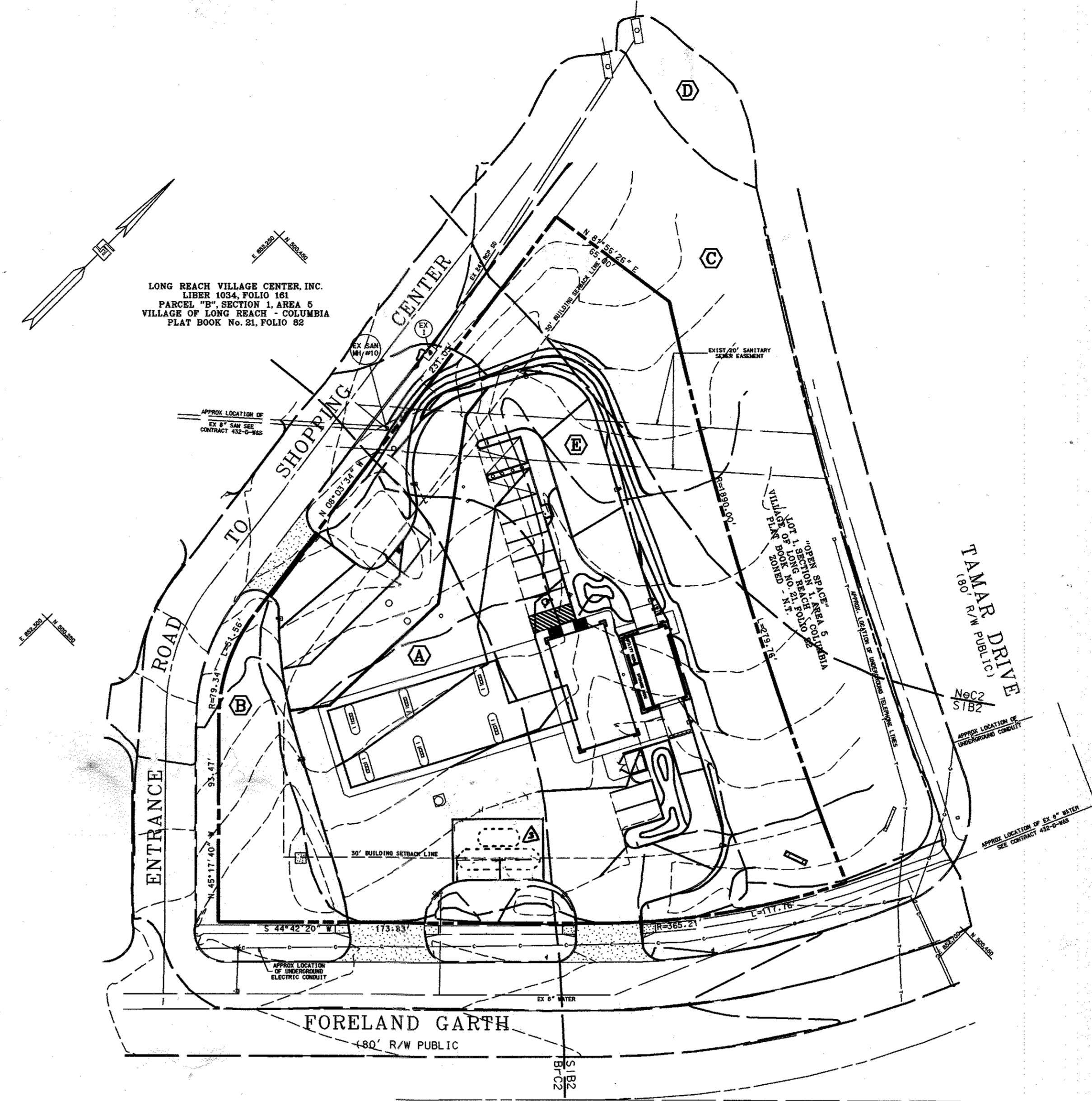
TIMOTHY F. WHITTLE  
PROFESSIONAL ENGR. NO. 19155

DATE	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF DEVELOPMENT ENGINEERING DIVISION MK 11/1/95 DATE
		CHIEF DIVISION & LAND DEVELOPMENT & RESEARCH 11/6/95 DATE
		APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT. 11/6/95 DATE
		APPROVED: COUNTY HEALTH OFFICER 11/3/95 DATE
OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044 LIBER 1535 / FOLIO 193		
DEVELOPER: EXXON COMPANY, U.S.A. 6301 IVY LANE SUITE 700 GREENBELT, MARYLAND 20770 ATTN: MR. MIKE SPECHT PHONE: (301)-513-7511		
FREDERICK WARD ASSOCIATES INC. ENGINEERS ARCHITECTS SURVEYORS 5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410)879-2090		
FWA JOB NUMBER 03288 FWA DRAWING FILE NAME COLANDROS		
AREA: VILLAGE OF LONG REACH SECTION 1 AREA 5 TAX MAP 36 PARCEL C 6 TH. ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: FOR AN EXXON STATION AT PARCEL C LANDSCAPE DETAILS		
DESIGN BY: JBG	SCALE: AS SHOWN	PROJECT NO.:
DRAWN BY: MSM	DATE: 03/07/1995	DRAWING NUMBER
CHECKED BY: TFW	APPROVED:	15 OF 16



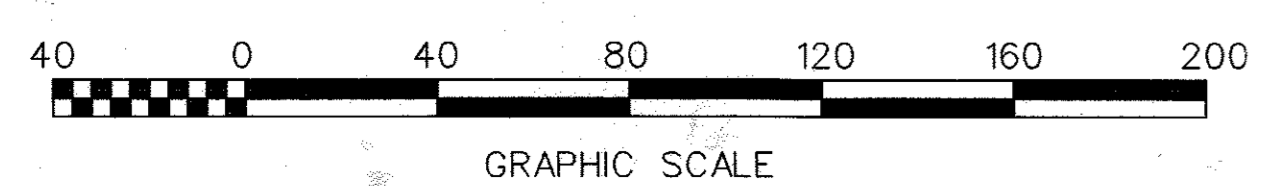
EXISTING DRAINAGE AREA MAP

DRAINAGE AREA	DRAINAGE AREA, AC.	PERCENT IMPERVIOUS	C-RATIONAL METHOD	RCN (TR-55)
A	0.75	77.3	0.70	91
B	0.74	64.9	0.62	88
C	1.09	10.1	0.23	65
D	0.05	0.0	0.16	61



PROPOSED DRAINAGE AREA MAP

DRAINAGE AREA	DRAINAGE AREA, AC.	PERCENT IMPERVIOUS	C-RATIONAL METHOD	RCN (TR-55)
A	0.74	77.3	0.77	94
B	0.73	65.7	0.63	88
C	0.93	11.8	0.24	65
D	0.05	0.0	0.16	61
E	0.18	77.3	0.74	94



SDP-95-117  
PLANNING BOARD APPROVAL

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY

DATE 9/13/95

DATE:	NUMBER	REVISION DESCRIPTION
		APPROVED: DEPARTMENT OF PLANNING AND ZONING
		CHIEF DEVELOPMENT ENGINEERING DIVISION MK <u>11/1/95</u> DATE
		CHIEF DIVISION & LAND DEVELOPMENT & RESEARCH <u>11/6/95</u> DATE
		DIRECTOR <u>1/16/95</u> DATE

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

Joyce M. Boyd 11/3/95  
COUNTY HEALTH OFFICER DATE

OWNER: THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
THE ROUSE BUILDING  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044  
LIBER 1535 / FOLIO 193

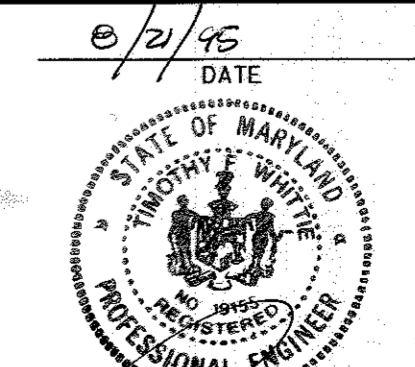
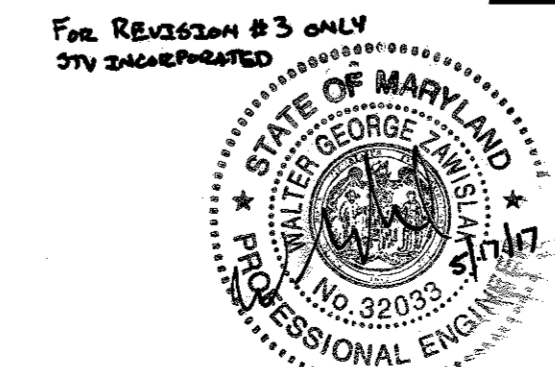
DEVELOPER: **EXXON COMPANY, U.S.A.**  
6301 IVY LANE  
SUITE 700  
GREENBELT, MARYLAND 20770  
ATTN: MR. MIKE SPECHT  
PHONE: (301) 513-7511

**FREDERICK WARD ASSOCIATES INC.**  
ENGINEERS ARCHITECTS SURVEYORS  
5 SOUTH MAIN STREET BEL AIR, MARYLAND 21014 (410) 879-2090

AREA: VILLAGE OF LONG REACH  
SECTION 1 AREA 5  
TAX MAP 36 PARCEL C  
6th. ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: FOR AN EXXON STATION  
AT PARCEL C  
DRAINAGE AREA MAPS

DESIGN BY: JBG SCALE: 1" = 20' PROJECT NO.:  
DRAWN BY: MSM DATE: 03/17/1995 DRAWING NUMBER  
CHECKED BY: TFW APPROVED: 16 OF 16



Professional Certification: I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 32033, Expiration Date 6-20-96.

Timothy F. Whittie  
TIMOTHY F. WHITTIE  
PROFESSIONAL ENGR. NO. 19159