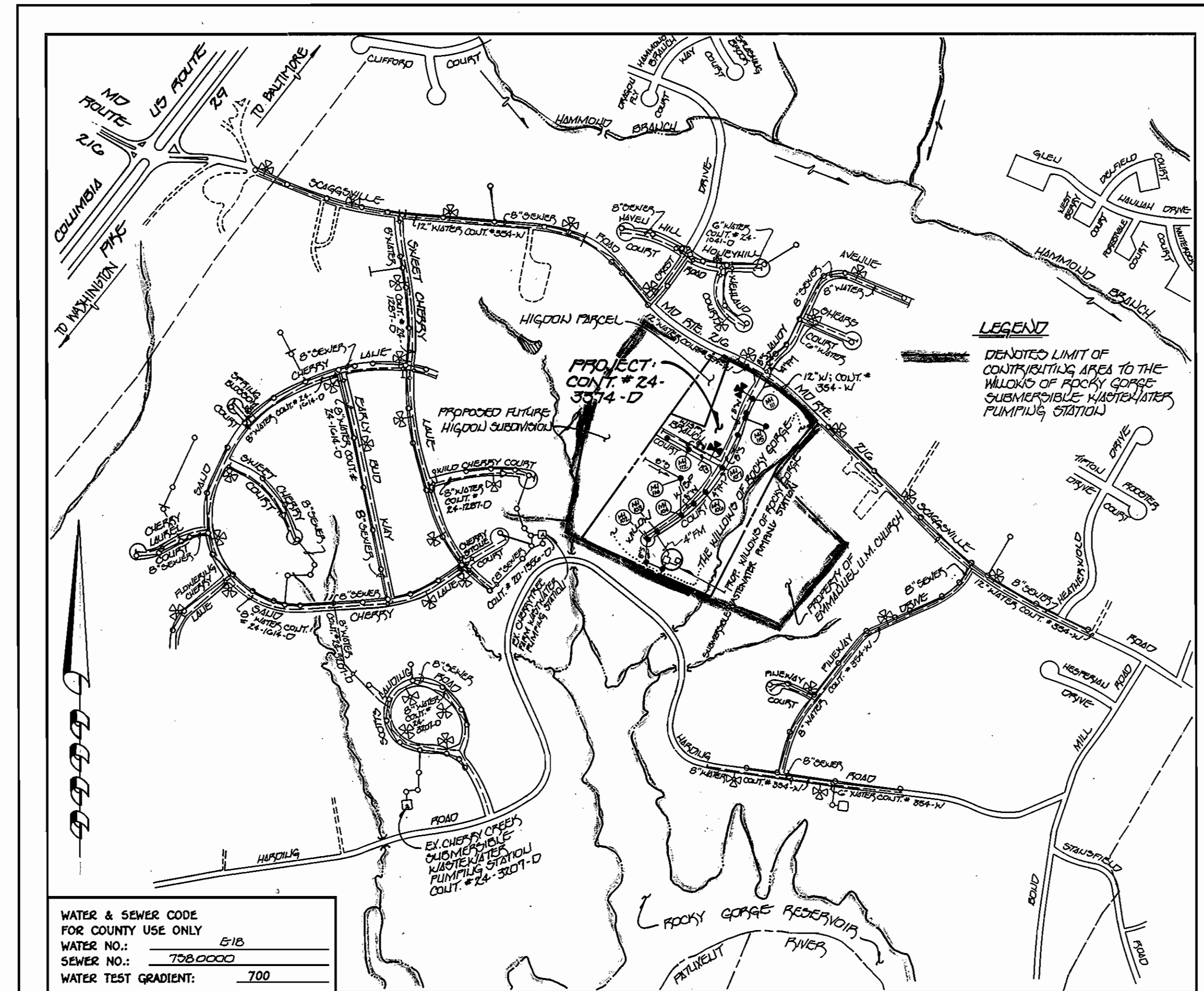


3374 ws/1 The Willows of Rocky Gorge (lots 1-45)

INDEX OF DRAWINGS	
NO.	DESCRIPTION
1	TITLE SHEET, VICINITY MAP
2	PUMPING STATION: SITE PLAN & DETAILS; S&P SHEET 1 OF 2
3	WATER, SEWER & FORCE MAIN: PLAN; S&P SHEET 2 OF 2
4	WATER, SEWER & FORCE MAIN: PLAN
5	WATER, SEWER & FORCE MAIN: PROFILES
6	WATER, SEWER & FORCE MAIN: PROFILES
7	WATER, SEWER & FORCE MAIN: PROFILES
8	PUMPING STATION: PLAN & SECTIONAL VIEWS
9	PUMPING STATION: PRECISE BUILDING; PLAN & ELEVATIONS
10	PUMPING STATION: STRUCTURAL PLAN & DETAILS
11	PUMPING STATION: MISCELLANEOUS DETAILS
12	PUMPING STATION: DRAINAGE AREA MAP
13	PUMPING STATION: ELECTRICAL PLAN & DETAILS
13A	WATER NO-BUILT INFORMATION

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" SEWER	1 EACH	1 EA.		
8" SEWER	2,200 L.F.	2183 L.F.	P.V.C.	J-M MANUFACTURING
8" SEWER C.I.P.	555 L.F.	549 L.F.	D.I.P.	ATLANTIC STATE PIPE
MANHOLE	17 EACH	17 EA.	PRECAST CONCRETE	"
4" SEWER	1,044 L.F.	1,024 L.F.	P.V.C.	J-M MANUFACTURING
4" FORCE MAIN	1,615 L.F.	1,610 L.F.	D.I.P.	ATLANTIC STATE PIPE
8" WATER	1,715 L.F.	1,700 L.F.	"	"
6" WATER	74 L.F.	80 L.F.	"	"
4" WATER	400 L.F.	400 L.F.	"	"
FIRE HYDRANTS	3 EACH	3 EA.	CAST IRON	AMERICAN FLOW CONT.
8" VALVES	4 EACH	3 EA.	CAST IRON/ANTHRACITE	MULLER CO.
6" VALVES	3 EACH	3 EA.	"	"
4" VALVE	4 EACH	4 EA.	"	"
1" W.H.C.	635 L.F.	670 L.F.	W. COPPER	CAMBRIDGE PIPE
3/4" W.H.C.	675 L.F.	648 L.F.	CAST IRON D.I.P.	MULLER CO.
8" x 12" T.S. T.V.	1 EACH	1 EA.	CAST IRON D.I.P.	MULLER CO.

NAME OF UTILITY CONTRACTOR: GAINES AND COMPANY INC.  
SURVEY & DRAINAGE DIVISION AS-BUILT DATE:



WATER & SEWER CODE FOR COUNTY USE ONLY	
WATER NO.:	516
SEWER NO.:	7080000
WATER TEST GRADIENT:	700

TYPE OF BUILDING: RESIDENTIAL SINGLE FAMILY DETACHED	
NUMBER OF LOTS:	45 (41 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	42
NO. OF SEWER HOUSE CONNECTIONS:	41
DRAINAGE AREA:	PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER

PLAN REFERENCE NUMBERS:	
	594-10
	P94-12 F90-09

■■■■ WIRELESS ■■■■ DENOTED DELINEATION OF WILLOWS OF ROCKY GORGE PUMPING STATION SERVICE AREA

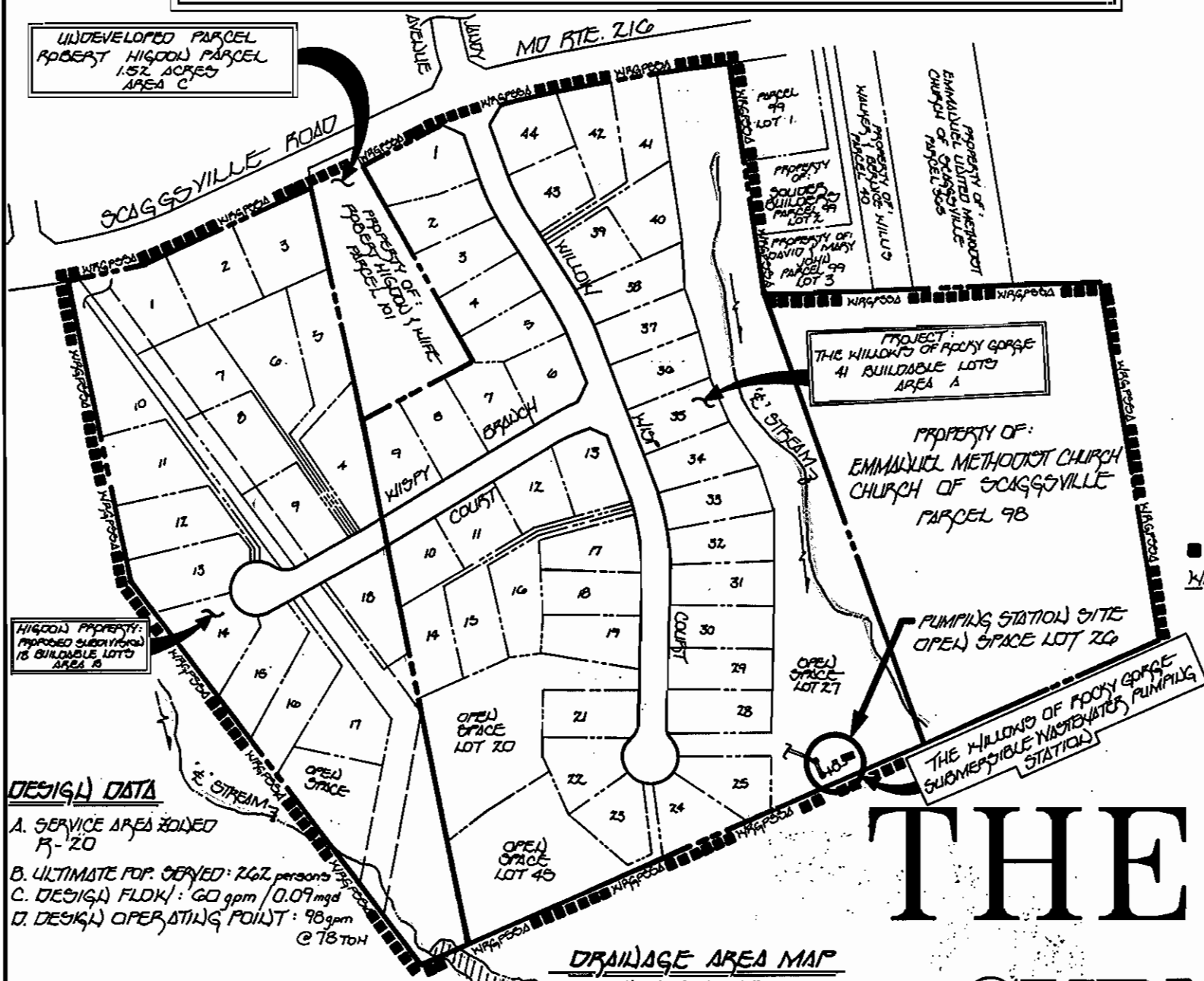
## LOT NOS. 1-45 CONTRACT No. 24-3374-D

# THE WILLOWS OF ROCKY GORGE

## SUBMERSIBLE WASTEWATER PUMPING STATION WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE BUREAU OF UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
  - MISS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W111 AND W213). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.



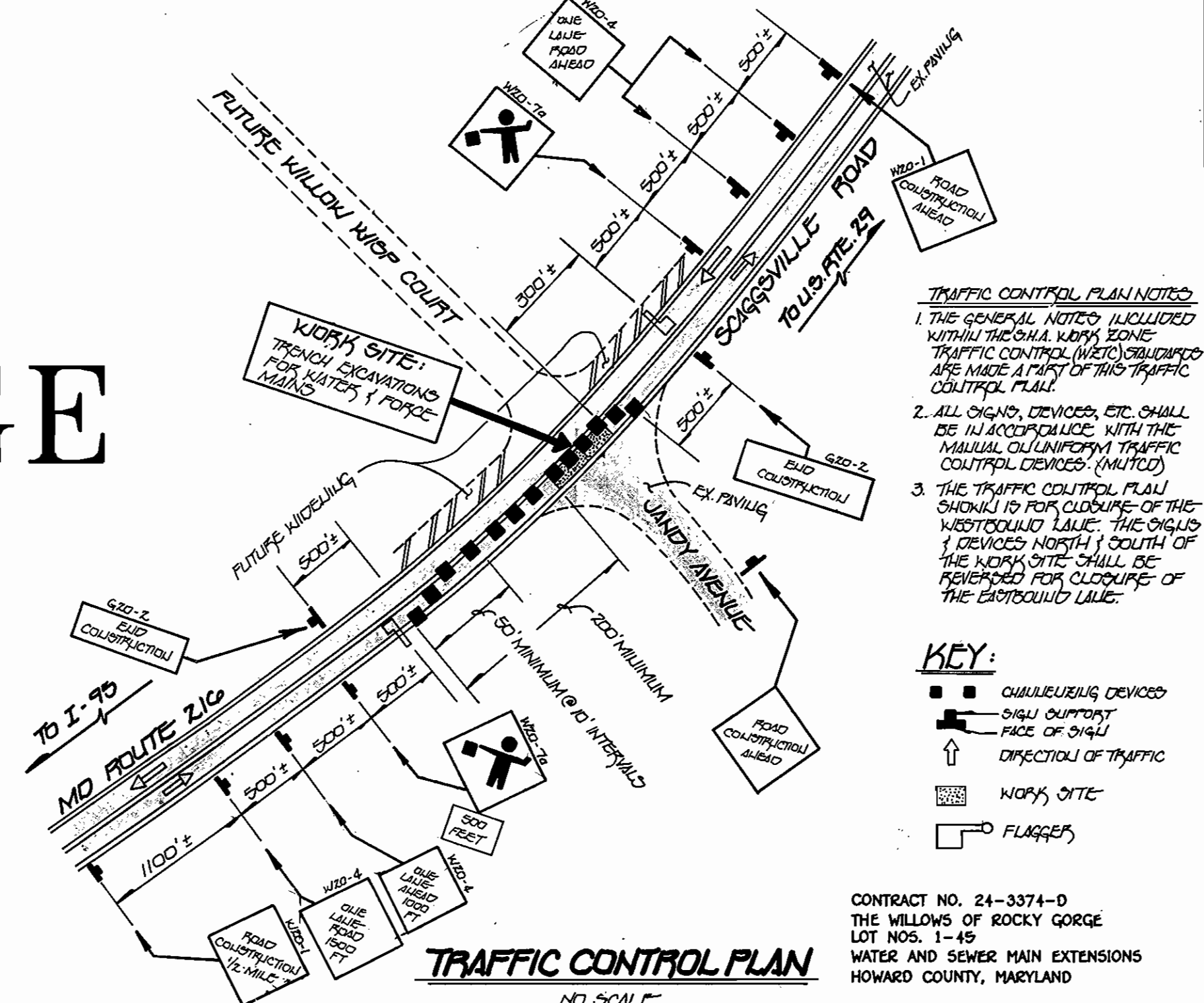
DESIGN DATA  
A. SERVICE AREA ZONE: 75-20  
B. ULTIMATE POP. DENSITY: 1262 persons  
C. DESIGN FLOW: 1.60 gpm / 0.017 cfs  
D. DESIGN OPERATING POINT: 6.76 ft

NOTES: 1. SEE SHEET 12 FOR 1" x 100' SCALE DRAINAGE AREA MAP  
2. SEE SHEET 11 FOR COMPLETE DESIGN FLOW TABULATION CHART

APPROVED: *John P. Roberts* 5/25/95  
HOWARD SOIL CONSERVATION DISTRICT

SEDMIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 215 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND TO BE MAINTAINED PER 1990-CR.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS:  
*Patricia Engle* 5/25/95  
UTILITY NATURAL RESOURCES CONSULTATION SERVICE



TRAFFIC CONTROL PLAN NOTES  
1. THE GENERAL NOTES INCLUDED WITHIN THE DRAWINGS, AND THE TRAFFIC CONTROL PLAN NOTES, ARE MADE A PART OF THIS TRAFFIC CONTROL PLAN.  
2. ALL SIGNS, DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MARYLAND UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).  
3. THE TRAFFIC CONTROL PLAN SHALL BE FOR CLOSURE OF THE WESTBOUND LANE - THE SIGNAL DEVICES NORTH & SOUTH OF THE WORK SITE SHALL BE REVERSED FOR CLOSURE OF THE EASTBOUND LANE.

KEY:  

- CHALLENGING DEVICES
- SIGNAL OUTPUT
- FACE OF SIGNAL
- DIRECTION OF TRAFFIC
- WORK SITE
- FLAGGER

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James S. Shaw* 5/25/95  
DIRECTOR OF PUBLIC WORKS

*Robert B. Berman* 5-23-95  
CHIEF, BUREAU OF UTILITIES

*Patricia Engle* 5/25/95  
CHIEF, LAND DEVELOPMENT DIVISION

Fisher, Collins & Carter, Inc.  
#9757

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CHIEF, BUREAU OF ENGINEERING

Suite 100, 9171 Baltimore National Pike  
Elliott City, Maryland 21042  
(410) 461-2855

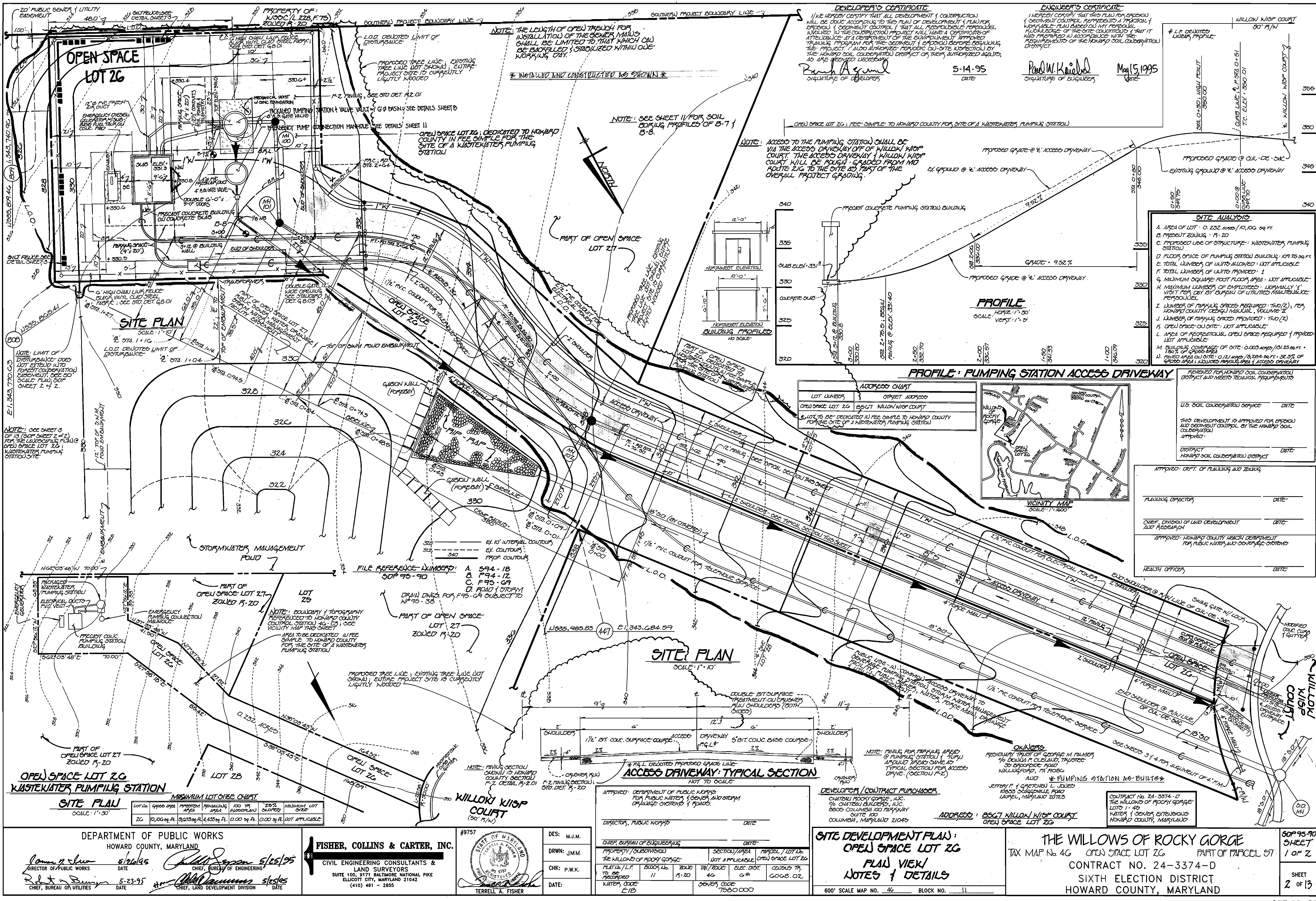
*Terrell A. Fisher*  
TERRELL A. FISHER

DES:	M.J.M.	DATE:	BY:	NO.:	REVISION:	DATE:
DRWN:	M.J.M.					
CHK:	P.W.K.					
600' SCALE MAP NO. 46 BLOCK NO. 11						

THE WILLOWS OF ROCKY GORGE  
LOT NOS. 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 1 OF 13

3374 WS/2 The Willows of Rocky Gorge



**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT & CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & MAJOR EROSION CONTROL PLAN. I AM RESPONSIBLE FOR THE PROVISION OF ALL NECESSARY EROSION CONTROL MEASURES TO PREVENT SOIL EROSION AND TO PROTECT THE PUBLIC HEALTH, SAFETY AND INTERESTS OF THE COMMUNITY. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE REQUIRED NECESSARY.

*Signature of Developer*  
 DATE: 5-14-95

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION CONTROL & MAJOR EROSION CONTROL MEASURES IS A PROFESSIONAL ENGINEER'S DESIGN. I HAVE PERSONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Signature of Engineer*  
 DATE: May 15, 1995

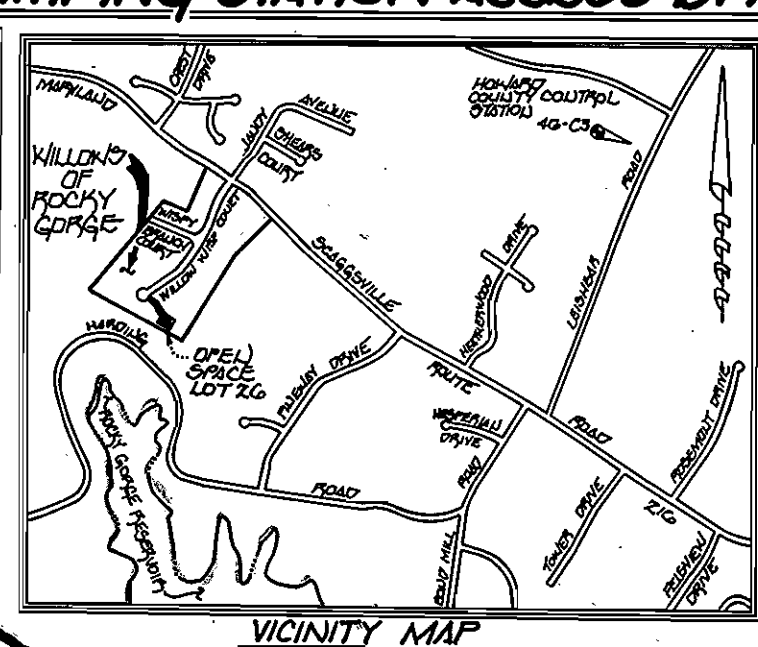
**SITE ANALYSIS**

- AREA OF LOT: 0.232 ACRES / 10,100 SQ. FT.
- PRESENT ZONING: R-20
- PROPOSED USE OF STRUCTURE: WASTEWATER PUMPING STATION
- FLOOR SPACE OF PUMPING STATION BUILDING: 109.75 SQ. FT.
- TOTAL NUMBER OF UNITS ALLOWED: NOT APPLICABLE
- TOTAL NUMBER OF UNITS PROVIDED: 1
- MINIMUM SQUARE FOOT FLOOR AREA: NOT APPLICABLE
- MINIMUM NUMBER OF EMPLOYEES: NORMALLY 1 VISIT PER DAY BY BUREAU OF UTILITIES MAINTENANCE PERSONNEL
- NUMBER OF PARKING SPACES REQUIRED: TWO (2), FOR HOWARD COUNTY (REQD) MINIMUM VOLUME 1
- NUMBER OF PARKING SPACES PROVIDED: TWO (2)
- AREA OF RECREATIONAL OPEN SPACE REQUIRED: NOT APPLICABLE
- AREA OF RECREATIONAL OPEN SPACE PROVIDED: NOT APPLICABLE
- BUILDING COVERAGE OF SITE: 0.003 ACRES / 131.25 SQ. FT. / 1.00% OF GROSS AREA
- PERCENTAGE OF OPEN SPACE: 0.229 ACRES / 9,868.75 SQ. FT. / 97.00% OF GROSS AREA

**ADDRESS CHART**

LOT NUMBER	STREET ADDRESS
OPEN SPACE LOT 26	8567 WILLOW KNOB COURT

\* LOT TO BE DEDICATED IN FEE SIMPLE TO HOWARD COUNTY FOR THE SITE OF A WASTEWATER PUMPING STATION



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE DATE: \_\_\_\_\_

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

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED: DEPT. OF PLANNING AND ZONING

PLANNING DIRECTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF, DIVISION OF LAND DEVELOPMENT AND RECREATION DATE: \_\_\_\_\_

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

HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_



**MINIMUM LOT SIZE CHART**

Lot No.	Approx. Area	Minimum Floor Area	Minimum Lot Area	25% Overlay	Minimum Lot Size
ZC	10,100 sq. ft.	9,075 sq. ft.	4,433 sq. ft.	0.00 sq. ft.	NOT APPLICABLE

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

*Signature of Director of Public Works*  
 DATE: 5-23-95

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2855

**STATE OF MARYLAND**  
 REGISTERED PROFESSIONAL ENGINEER  
 TERRELL A. FISHER

DES: M.J.M.  
 DRWN: J.M.M.  
 CHK: P.W.K.  
 DATE: \_\_\_\_\_

**DEVELOPER / CONTRACT PURCHASER**  
 CHATHAM ROCKY GORGE, LLC  
 90 CHATHAM COUNDRY, LLC  
 8800 COLUMBIA RD PARKWAY  
 SUITE 100  
 COLUMBIA, MARYLAND 21045

**SITE DEVELOPMENT PLAN: OPEN SPACE LOT 26 PLAN VIEW / NOTES & DETAILS**  
 600' SCALE MAP NO. 46 BLOCK NO. 11

**THE WILLOWS OF ROCKY GORGE**  
 TAX MAP No. 46 OPEN SPACE LOT 26 PART OF PARCEL 57  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SOP 95-90 SHEET 1 OF 2  
 SHEET 2 OF 13  
 SOP 95-90

The Willows of Rocky Gorge

**SHC INVERTS @ R CHART**

STATION	LOT	ELEVATION
MH 102 TO MH 103		
V.O. 55 LT.	25	330.34
V.O. 65 RT.	28	330.84
V.O. 05 LT.	24 (CHK)	337.10
@MH 103 CRT.	22 (OPN COUL.)	337.60
@MH 103 LT.	23 (OPN COUL.)	337.76
MH 104 TO MH 105		
V.O. 48 LT.	21 (CHK)	341.04
V.O. 10 RT.	29	345.81
V.O. 30 RT.	19	346.39
V.O. 60 RT.	30	347.06
V.O. 20 LT.	18	348.84
V.O. 40 RT.	31	349.06
V.O. 98 LT.	17	350.71
MH 106 TO MH 107		
@MH 106 RT.	32 (CHK @ MH)	351.02
V.O. 50 RT.	33	351.17
V.O. 20 RT.	34	351.98
V.O. 00 RT.	35	352.38
MH 107 TO MH 108		
@MH 107 RT.	36 (CHK @ MH)	353.39
V.O. 95 RT.	37	356.62
V.O. 55 RT.	38	358.72
V.O. 15 RT.	9	359.42
MH 108 TO MH 109		
V.O. 00 RT.	39	361.98
V.O. 90 LT.	4	362.91
MH 109 TO MH 111		
V.O. 25 LT.	3	371.48
V.O. 70 RT.	43	373.04
V.O. 00 LT.	2	378.04
@MH 111 RT.	1 (CHK @ MH)	382.56
@MH 111 RT.	44 (CHK @ MH)	382.27
MH 114 TO MH 116		
@MH 114 RT.	16 (OPN COUL.)	342.20
V.O. 50 RT.	10	334.27
V.O. 30 RT.	14	334.85
MH 107 TO MH 112		
V.O. 00 LT.	13	335.63
V.O. 70 RT.	6	336.35
V.O. 54 LT.	12	339.33
V.O. 68 RT.	7	340.81
MH 112 TO MH 113		
V.O. 32 RT.	8	343.13
V.O. 43 LT.	11	342.98
V.O. 15 RT.	9	343.98
@MH 113 LT.	10 (CHK @ MH)	344.23
MH 109 TO MH 115		
V.O. 50 LT.	42	345.85
V.O. 60 RT.	40 (@ 100%)	345.82
@MH 115	41 (CHK @ MH 100%)	346.16

**DEVELOPER'S CERTIFICATE**

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

*Rud Aguil* 5-14-95  
SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATE**

I HEREBY 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 COUNTY CONSERVATION DISTRICT.

*Paul M. Keidel* May 15, 1995  
SIGNATURE OF ENGINEER DATE

- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.
  - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - SOIL HOLDING OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 SEVEN (7) CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES AND WITHIN 14 SEVEN (7) DAYS AND ALL GREATER THAN 36 IN. FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS OF THE PROJECT SITE.
  - ALL SEDIMENT TRANSFER AREAS MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL AND DRAINAGE.
  - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME SPECIFIED ABOVE. IN ACCORDANCE WITH THE 1985 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING SEC. 20 500 GALS/ACR. TEMPORARY SEEDING SEC 20 AND MULCHING SEC. 20. TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN EROSION NEEDED SEEDING DATES DO NOT ALLOW FOR PROPER SEEDING AND ESTABLISHMENT OF GRASSES.
  - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY CONSERVATION DISTRICT.
  - SITE ANALYSIS
    - TOTAL AREA OF SITE 0.232 ACRES (OPEN SPACE LOT 26)
    - AREA DISTURBED 0.232 ACRES
    - AREA TO BE ROOFED OR PAVED 0.109 ACRES
    - AREA TO BE VEGETATIVELY STABILIZED 0.079 ACRES
    - TOTAL CUT - 100 C.Y. (APPLICABLE) #
    - TOTAL FILL - 100 C.Y. (APPLICABLE) #
    - OFF-SITE WASTE/ROCK 0 C.Y.
    - AREA LOCATION NOT APPLICABLE - (NONE) - 0 C.Y.
  - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR THE BENEFIT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS.
  - ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO (2) ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL STRUCTURES, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

- EROSION AND SEDIMENT CONTROL NOTES**
- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 20 OF THE HOWARD COUNTY DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN DEVELOPING AREAS.
  - ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
  - ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
  - IMPERVIOUSLY LINED BACKFILL OF THE SEWER MAIN TRENCH ALL DISTURBED AREAS ARE TO BE STABILIZED AND SEEDING NOTES SHOWN ON THIS SHEET.
  - ON ALL SITES WITH DISTURBED AREAS, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
  - ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. SEE SEWER MAIN CONSTRUCTION SEQUENCE THIS SHEET.

- PERMANENT SEEDING NOTES**
- ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
- SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:**  
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQFT.) BEFORE SEEDING HARDEN OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQFT.) AND 500 LBS. PER ACRE (15 LBS./1,000 SQFT.) OF 10-20-20 FERTILIZER.
- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 50 LBS./ACRE PER ACRE OF ANNUAL RYE (32 LBS./ACRE OF WEEPING LOVEGRASS 07 LBS./1,000 SQFT. FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 29. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
- MULCHING:**  
APPLY 15 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQFT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 200 GALLONS PER ACRE IS CALLED 1,000 SQFT. OF GRANULATED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 GAL./1,000 SQFT.) FOR ANCHORING.
- MAINTENANCE:**  
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

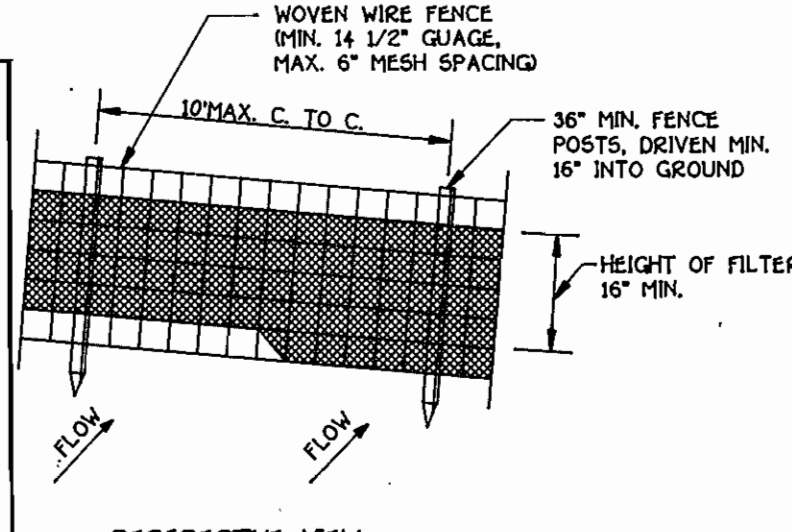
REVISIONS FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION SERVICE DATE:

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

APPROVED:

DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE:



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OF STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>

POSTS: STEEL EITHER T OR U TYPE OR 2\"/>
FENCE: WOVEN WIRE, 14 GA. 6\"/>
FILTER CLOTH: FILTER X, HIRAFI 100X, STABILINA TH ON OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOPAR, ENVIRONMENTAL OR APPROVED EQUAL.

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
SUITE 100, 9711 BALTIMORE NATIONAL PIKE  
BELL COTT CITY, MARYLAND 21042  
(410) 461-2855

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert A. Sawyer* 5/23/95  
DIRECTOR OF PUBLIC WORKS DATE

*Paul M. Keidel* 5/23/95  
CHIEF, BUREAU OF ENGINEERING DATE

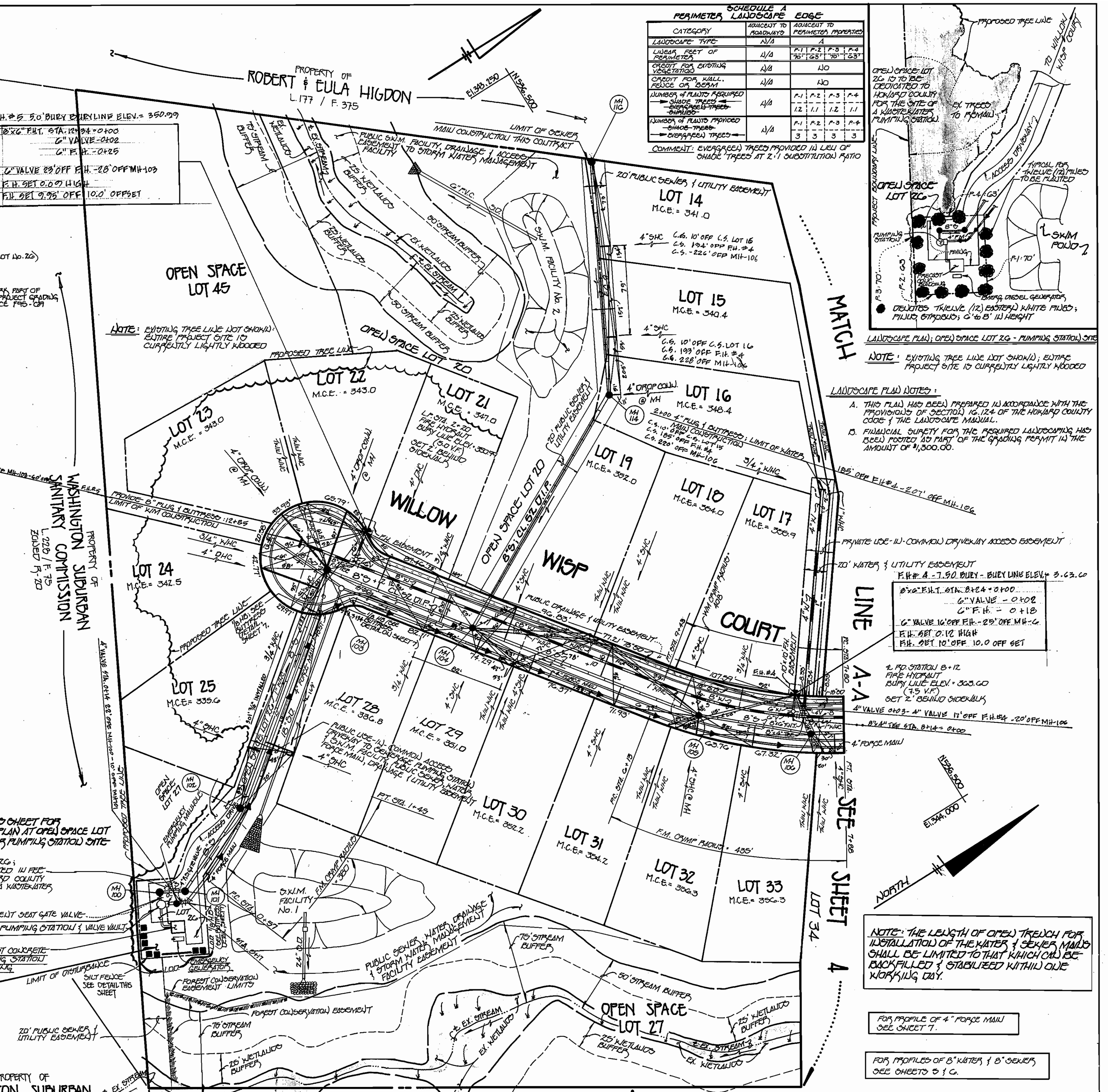
**NOTE: SEE SHEET 2 OF 13; (TOP SHEET 1 OF 2) FOR 1\"/>**

**NOTE: ACCESS TO THE PUMPING STATION SITE SHALL BE VIA THE ACCESS DRIVEWAY OFF OF WILLOW COURT. THE DRIVEWAY ACCESS DRIVEWAY TO WILLOW COURT WILL BE ROUGH-GRADED FROM MID SITE TO THE SITE AS PART OF THE OVERALL PROJECT GRADING.**

**NOTE: THE LENGTH OF OPEN TRENCH FOR INSTALLATION OF THE WATER & SEWER MAINS SHALL BE LIMITED TO THAT WHICH CAN BE BACKFILLED & STABILIZED WITHIN ONE WORKING DAY.**

FOR PROFILE OF 4\"/>

FOR PROFILES OF 6\"/>



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

PROPERTY OF THE EMMAUEL UNITED METHODIST CHURCH  
L. 270 / F. 195  
ZONED R-20

DEPARTMENT OF PUBLIC WORKS  
FOR PUBLIC UTILITIES & SEWER STORM DRAINAGE SYSTEMS & ROADS

APPROVED: DATE

CHIEF, BUREAU OF ENGINEERING

PROPERTY (SUBDIVISION)  
THE WILLOWS OF ROCKY GORGE

FLAT NO./L.F. BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. RECORDS/RECORDS WATER CODE

11 11-20 4C G# COGS. 02 6008.00

SECTION/AREA PARCEL / LOT NO. 91 / 26

600' SCALE MAP NO. 45 BLOCK NO. 11

**SITE DEVELOPMENT PLAN: OPEN SPACE LOT 26 NOTES & DETAILS**

**PLAN VIEW**  
WATER, SEWER & FORCE MAINS

THE WILLOWS OF ROCKY GORGE  
TAX MAP No. 4C OPEN SPACE LOT 26 PART OF PARCEL 97

CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

ADDRESS: 8567 WILLOW WIND COURT

CONTRACT NO. 24-3374-D  
THE WILLOWS OF ROCKY GORGE  
OPEN SPACE LOT 26  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND

507 95-90  
SHEET 2 OF 2

SHEET 3 OF 13

507 95-90

**MANHOLE TABULATION CHART**

NO.	RD. STATION	DISTANCE	SLOPE	RIM ELEVATION
100				330.80
101				331.20
102				338.25
103	IN CUL. DE. SAC			350.20
104	11+05	7' LT.	-4.50%	356.35
105	8+92	8' LT.	-1.08%	362.21
106	7+95	7' LT.	-1.08%	363.60
107	6+10	7' LT.	-1.08%	365.28
108	4+36	9' LT.	-4.23%	369.27
109	2+89	7' LT.	-7.35%	378.00
111	1+38	7' LT.	-6.83%	390.14
112	2+25	6' LT.	2.44%	374.76
113	3+62	7' LT.	-2.11%	374.96
114				380.00
115				377.20
201				394.74
116				382.52

GET MH RIM FLUSH W/ PROPOSED GRAOUND  
 GET MH RIM FLUSH W/ EXISTING GRAOUND  
 KILLLOK/ KISOP COURT  
 GET MH RIM FLUSH W/ PROPOSED FINISHED GRADE  
 KISOP BRANCH COURT  
 GET MH RIM FLUSH W/ PROPOSED GRAOUND  
 GET MH RIM FLUSH W/ EXISTING PAVING OF JANDY AVENUE  
 GET MH RIM FLUSH W/ PROPOSED GRAOUND

**WATER TABULATION CHART**

RD. STATION	APPURTENANCE	DISTANCE	
-0+10	12" 0" TAPPING VALVE	7 FT.	
-0+07	8" TAPPING VALVE	7 FT.	
1+38	8" G. F.H. TEE	7 FT.	
0+02	1+38	4" VALVE	10 FT.
2+79	2+93	8" 4" TEE	7 FT.
9+71	9+42	8" VALVE	7 FT.
6+00	6+15	8" 8" TEE	7 FT.
6+00	6+15	8" VALVE	10 FT.
6+03	6+18	8" VALVE	7 FT.
6+02	6+14	8" 4" TEE	7 FT.
6+11	6+24	8" G. F.H. TEE	7 FT.
12+22	12+34	8" G. F.H. TEE	7 FT.
0+02	12+22	12" VALVE	10 FT.
12+74	12+84	8" FLUG & BUTTRESS	7 FT.
6+15	0+07	8" 8" TEE	7 FT.
0+10	0+20	8" VALVE	7 FT.
0+32	0+46	8" G. F.H. TEE	7 FT.
0+02	0+32	8" VALVE	10 FT.
3+23	3+47	8" G. F.H. TEE	7 FT.
0+02	3+23	8" VALVE	10 FT.
4+33	4+33	8" FLUG & BUTTRESS	7 FT.

KILLLOK/ KISOP COURT  
 F.H.# 2 - 8.0' BURY - BURYLINE ELEV. = 367.10  
 8" VALVE - 0+02  
 8" F.H. - 0+10  
 8" VALVE 6" OFF F.H. = 63' OFF MH-107  
 F.H. SET 0.14' HIGH  
 F.H. SET 10.0' OFF 10.0' OFFSET

KISOP BRANCH COURT

**FORCE MAIN TABULATION CHART**

RD. STATION	APPURTENANCE	DISTANCE
12+12	1/8 H.B.	21' LT.
12+35	1/8 H.B.	45' LT.

8" VALVE 0+03-44' OFF F.H.# 2 - 19' OFF MH-107  
 8" VALVE 4+10-19' OFF F.H.# 2 - 19' OFF MH-107  
 8" VALVE 6+18-41' OFF F.H.# 2 - 19' OFF MH-107

**WATER MAIN CRIMP CHART**

K/M STATION	PC/PT OF CRIMP	RADIUS
11+50	PC - BEG/LL CRIMP	447'
2+57	PT - END CRIMP	493'
4+01	PC - BEG/LL CRIMP	493'
5+00	PT - END CRIMP	408'
7+80	PC - BEG/LL CRIMP	408'
9+33	PT - END CRIMP	707'
0+75	PC - BEG/LL CRIMP	
1+78	PT - END CRIMP	

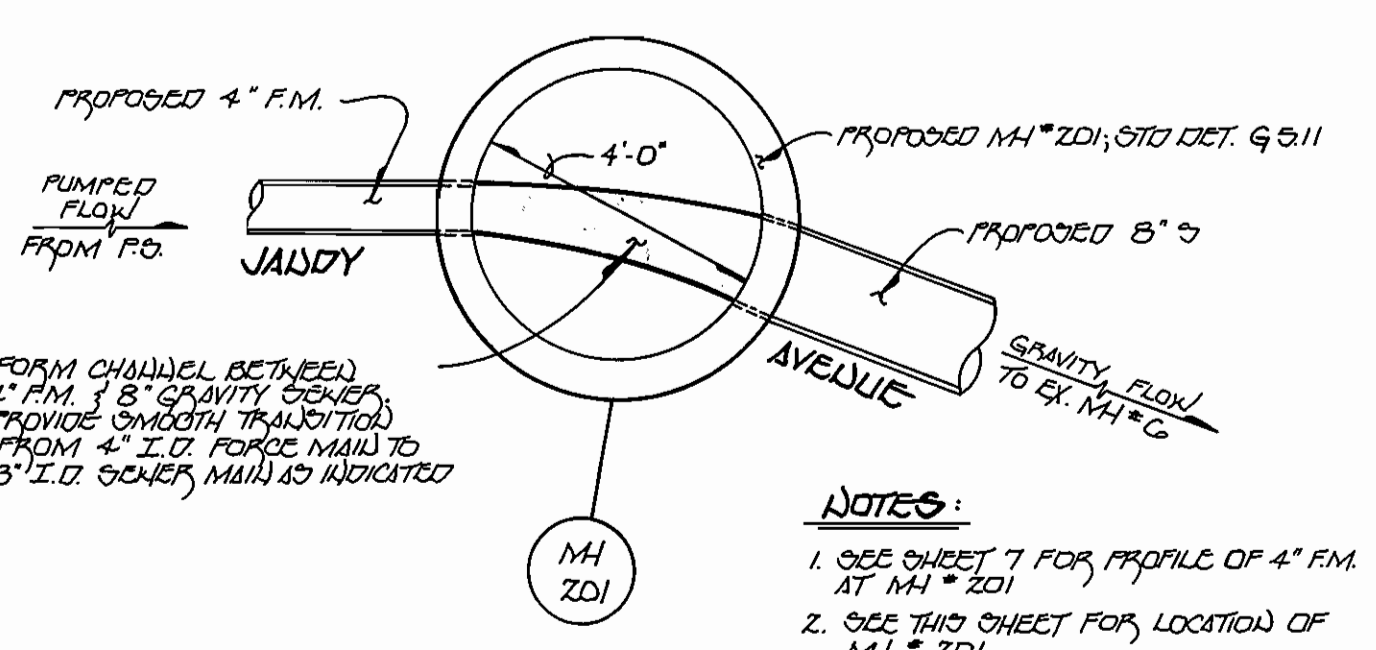
KILLLOK/ KISOP COURT  
 KISOP BRANCH COURT

**FORCE MAIN CRIMP CHART**

FM STATION	PC/PT OF CRIMP	RADIUS
0+44	PC - BEG/LL CRIMP	380'
1+64	PT - END CRIMP	435'
6+13	PC - BEG/LL CRIMP	435'
7+88	PT - END CRIMP	570'
10+70	PC - BEG/LL CRIMP	570'
11+76	PT - END CRIMP	420'
13+20	PC - BEG/LL CRIMP	
14+22	PT - END CRIMP	

KILLLOK/ KISOP COURT

SEE SHEET 6 FOR PROFILES OF WATER & SEWER MAINS IN KISOP BRANCH COURT



**DETAIL: PLAN VIEW @ MH #201**  
 NO SCALE

F.H.# 1 - 8.50' BURY - BURYLINE ELEV. = 390.87  
 18" 6" F.H. STA. 3+17 = 0+00  
 6" VALVE - 0+02  
 6" F.H. - 0+10  
 6" VALVE 16" OFF F.H. = 16" OFF MH-111  
 F.H. SET 0.18' HIGH  
 F.H. SET 10.05' OFF 10.0' OFFSET

NOTE: SEE TRAFFIC CONTROL PLAN SHEET 1 OF 13 FOR WORK EFFORTS WITHIN 3 H.A. R/W OF MARYLAND ROUTE 216

SEE SHEET 5 FOR PROFILES OF WATER & SEWER MAINS IN WILLOW KISOP COURT

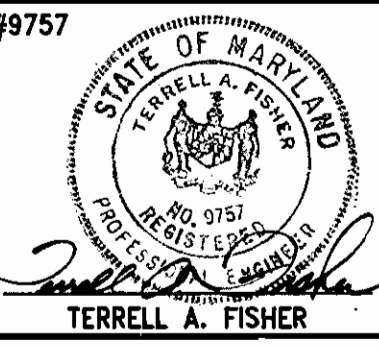
SEE SHEET 7 FOR PROFILE OF 4" FORCE MAIN IN WILLOW KISOP COURT

CONTRACT NO. 24-3374-D  
 THE WILLOWS OF ROCKY GORGE  
 LOT NOS. 1 - 45  
 WATER AND SEWER EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

Director of Public Works: Robert B. ... 5/25/95  
 Chief, Bureau of Utilities: Robert B. ... 5-23-95  
 Chief, Bureau of Engineering: ... 5/25/95  
 Chief, Land Development Division: ... 5/25/95

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 481-2855



DES.	DRWN.	CHK.	DATE:	BY	NO.	REVISION	DATE
M.J.M.	M.J.M./J.M.M.	P.W.K.					

PLAN VIEW  
 WATER AND SEWER MAINS  
 FORCE MAIN

600' SCALE MAP NO. 46 BLOCK NO. 11

THE WILLOWS OF ROCKY GORGE  
 LOT NO. 1 - 45  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 4 OF 13

3374 WS/4 The Willows of Rocky Gorge

ws/5 The Willows of Rocky Gorge

3374

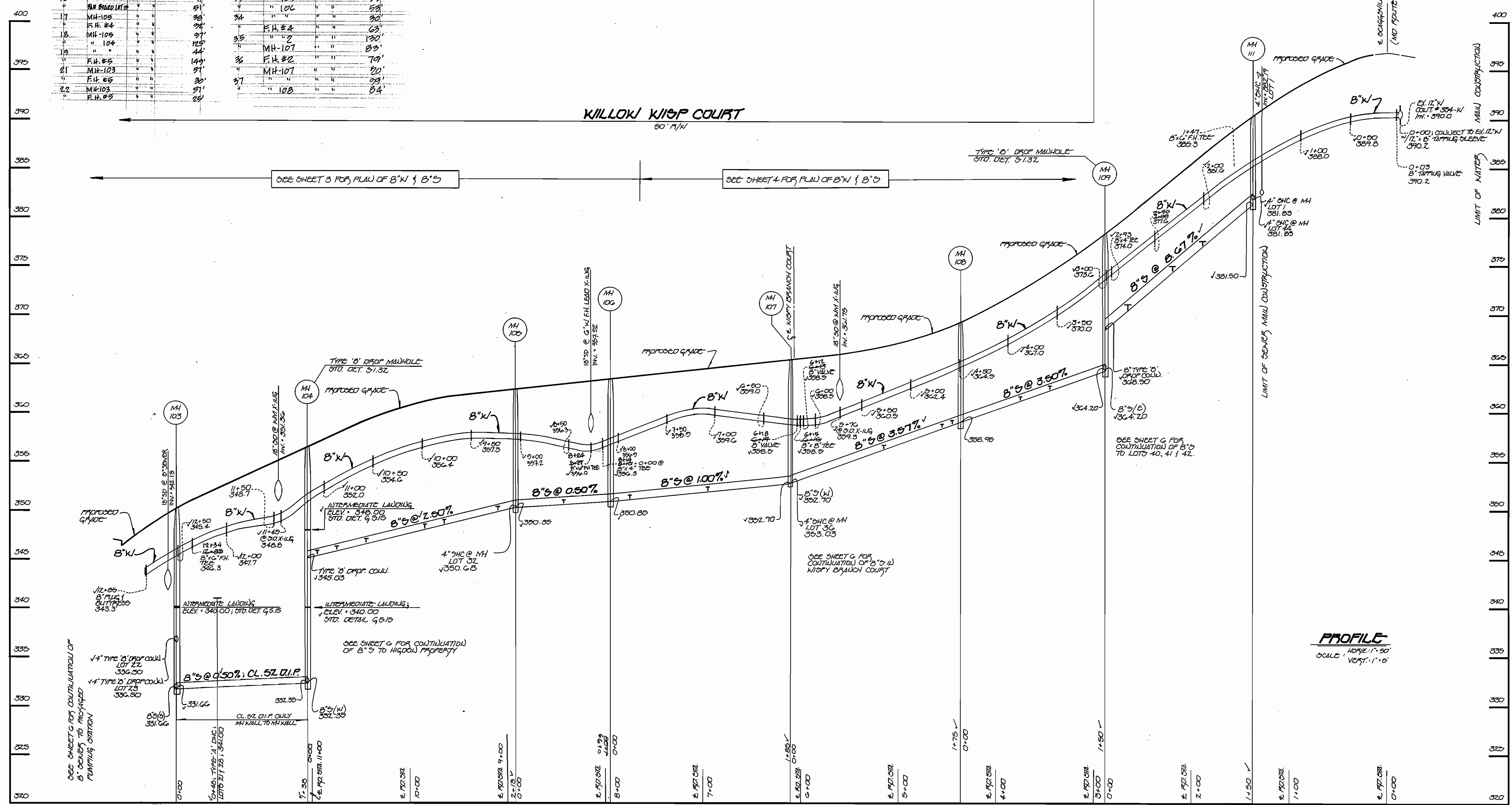
As-DULLED SEWER HOUSE CONNECTION

LOT#	FROM	TO	DIST.
1	MH-111	SAN. BOARD	36'
"	F.H.#1	"	20'
2	MH-111	"	60'
"	F.H.#1	"	42'
3	MH-111	"	133'
"	F.H.#1	"	109'
4	"	"	68'
"	"	"	95'
5	"	"	36'
"	F.H.#2	"	149'
6	MH-107	"	76'
"	F.H.#2	"	113'
7	MH-112	"	76'

LOT#	FROM	TO	DIST.
8	MH-112	SAN. BOARD	47'
"	F.H.#3	"	68'
9	"	"	18'
10	MH-113	"	22'
"	F.H.#3	"	47'
11	"	"	69'
"	MH-112	"	49'
12	"	"	78'
13	F.H.#2	"	103'
14	MH-107	"	69'
"	F.H.#2	"	78'
15	SAN. BOARD	"	79'
"	MH-114	"	53'
16	SAN. BOARD	"	51'
17	MH-105	"	38'
"	F.H.#4	"	97'
18	MH-105	"	125'
"	"	"	44'
19	"	"	149'
21	F.H.#5	"	97'
"	MH-103	"	30'
"	F.H.#5	"	97'
22	MH-103	"	28'
"	F.H.#5	"	28'

LOT#	FROM	TO	DIST.
23	MH-103	SAN. BOARD	64'
"	F.H.#5	"	74'
24	MH-103	"	58'
"	F.H.#5	"	38'
25	MH-103	"	173'
"	MH-102	"	53'
26	"	"	169'
"	MH-102	"	79'
28	"	"	21'
29	"	"	189'
30	"	"	63'
"	MH-103	"	180'
31	"	"	142'
"	MH-105	"	77'
32	"	"	17'
"	MH-102	"	100'
33	"	"	93'
"	MH-102	"	93'
34	"	"	93'
"	F.H.#4	"	63'
35	"	"	190'
"	MH-107	"	83'
36	F.H.#2	"	70'
"	MH-107	"	20'
37	"	"	89'
"	MH-108	"	84'

LOT#	FROM	TO	DIST.
38	MH-107	SAN. BOARD	158'
"	"	"	27'
39	"	"	68'
"	"	"	91'
40	6" DRAIN VAULT COVER	"	35'
"	MH-115	"	30'
41	6" DRAIN VAULT COVER	"	36'
"	MH-115	"	33'
42	6" DRAIN VAULT COVER	"	30'
"	MH-115	"	30'
43	MH-109	"	70'
"	"	"	84'
44	F.H.#1	"	82'
"	MH-111	"	25'



8" WATER & 8" SEWER : WILLOW WISP COURT

PROFILE  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

CONTRACT NO. 24-3374-D  
THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

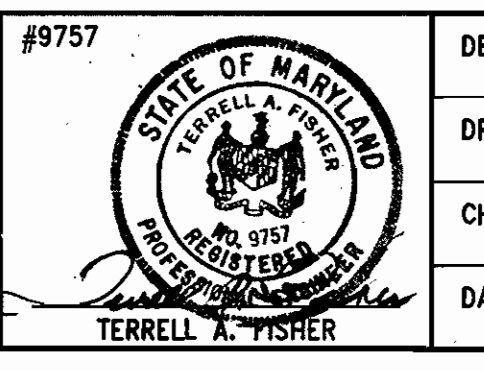
*Tom A. Chew* 5/25/95  
DIRECTOR OF PUBLIC WORKS DATE

*Robert W. Berman* 5-23-95  
CHIEF, BUREAU OF UTILITIES DATE

*Paul J. Span* 5/25/95  
CHIEF, BUREAU OF ENGINEERING

*Michael J. Stiles* 5/25/95  
CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS &  
LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2855



DES:	M.J.M.				
DRWN:	M.J.M./				
CHK:	P.W.K.				
DATE:					
BY:	NO.	REVISION	DATE		

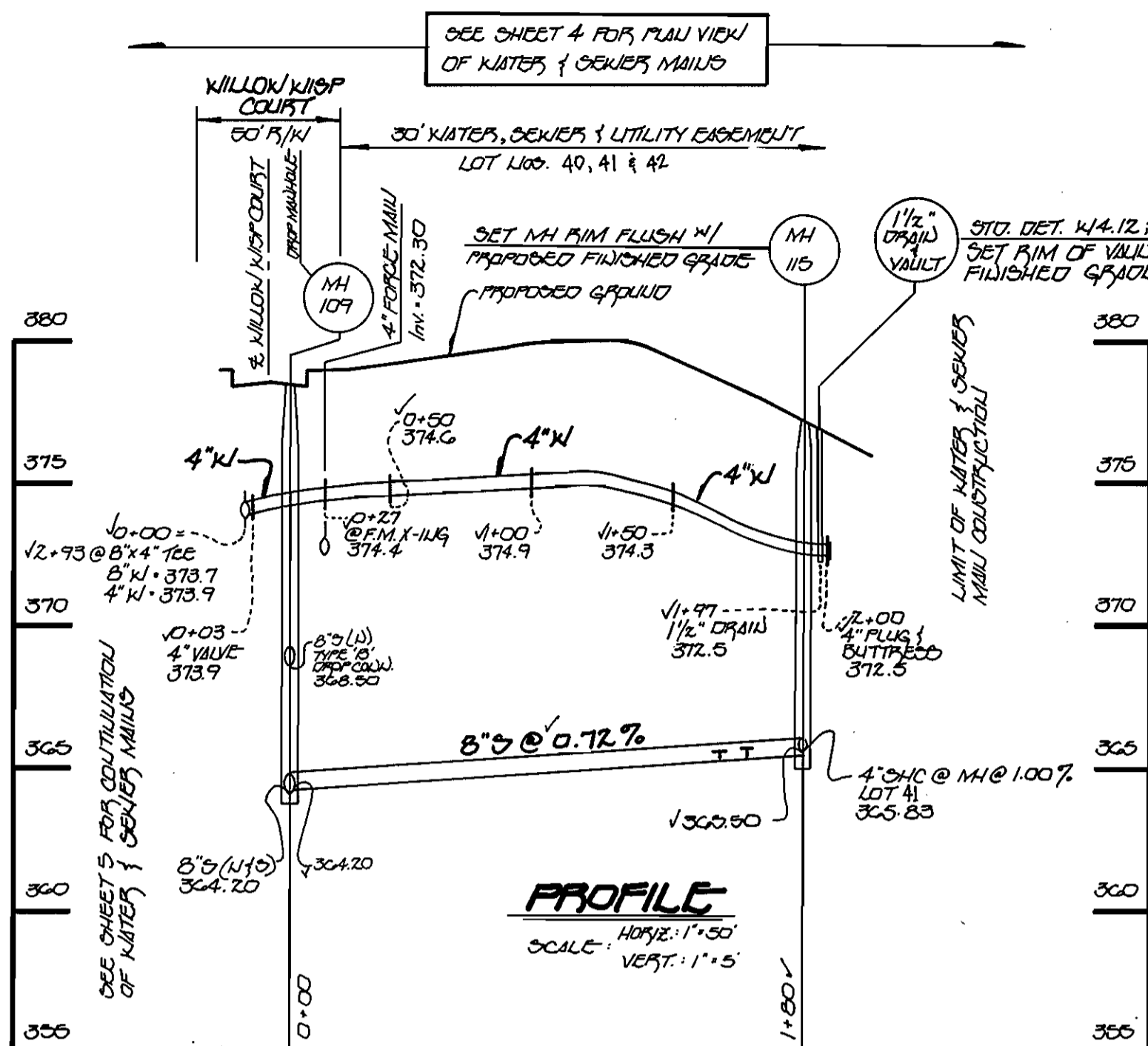
PROFILES  
WATER & SEWER MAINS

600' SCALE MAP NO. 46 BLOCK NO. 11

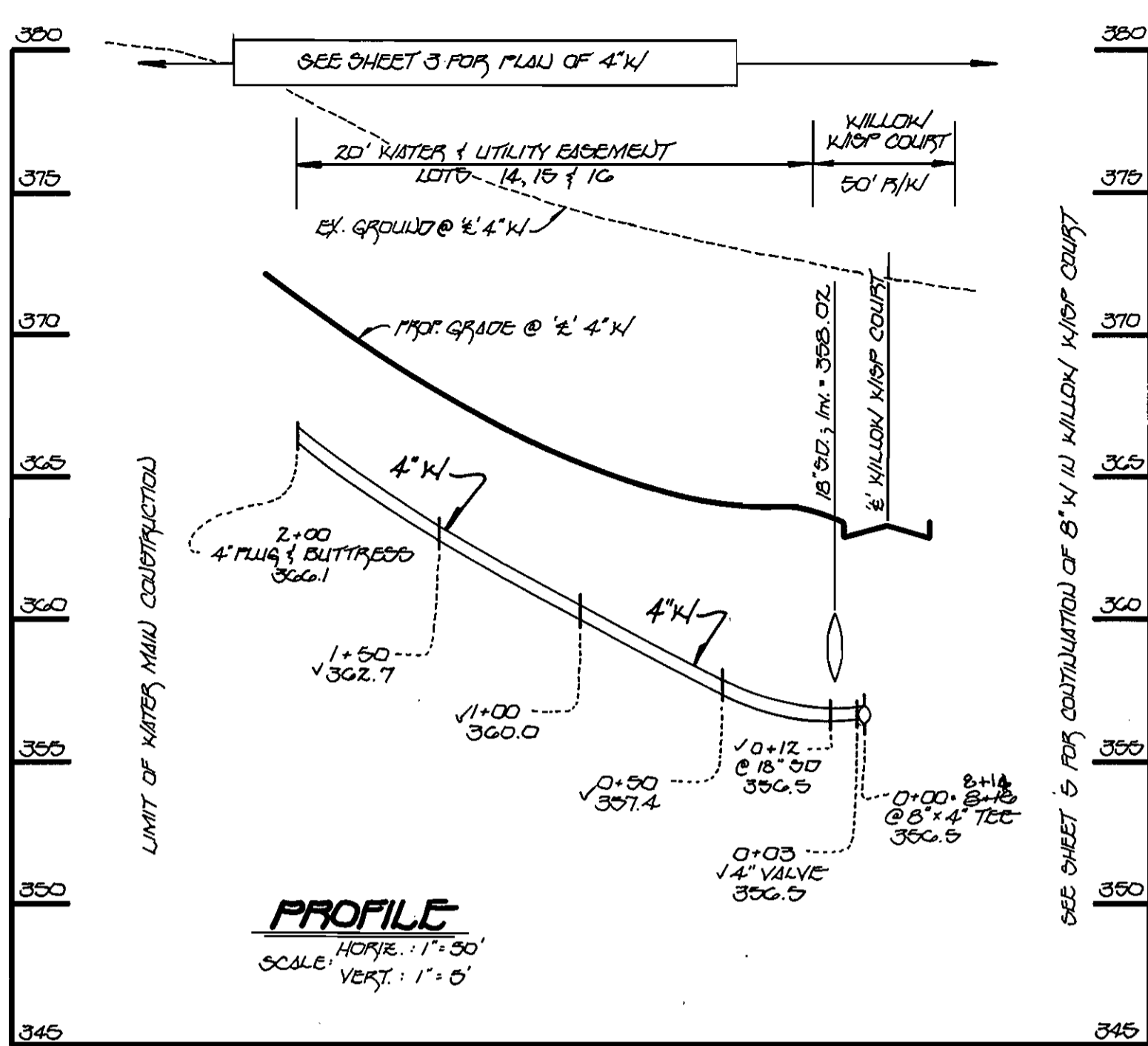
THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 5 OF 13

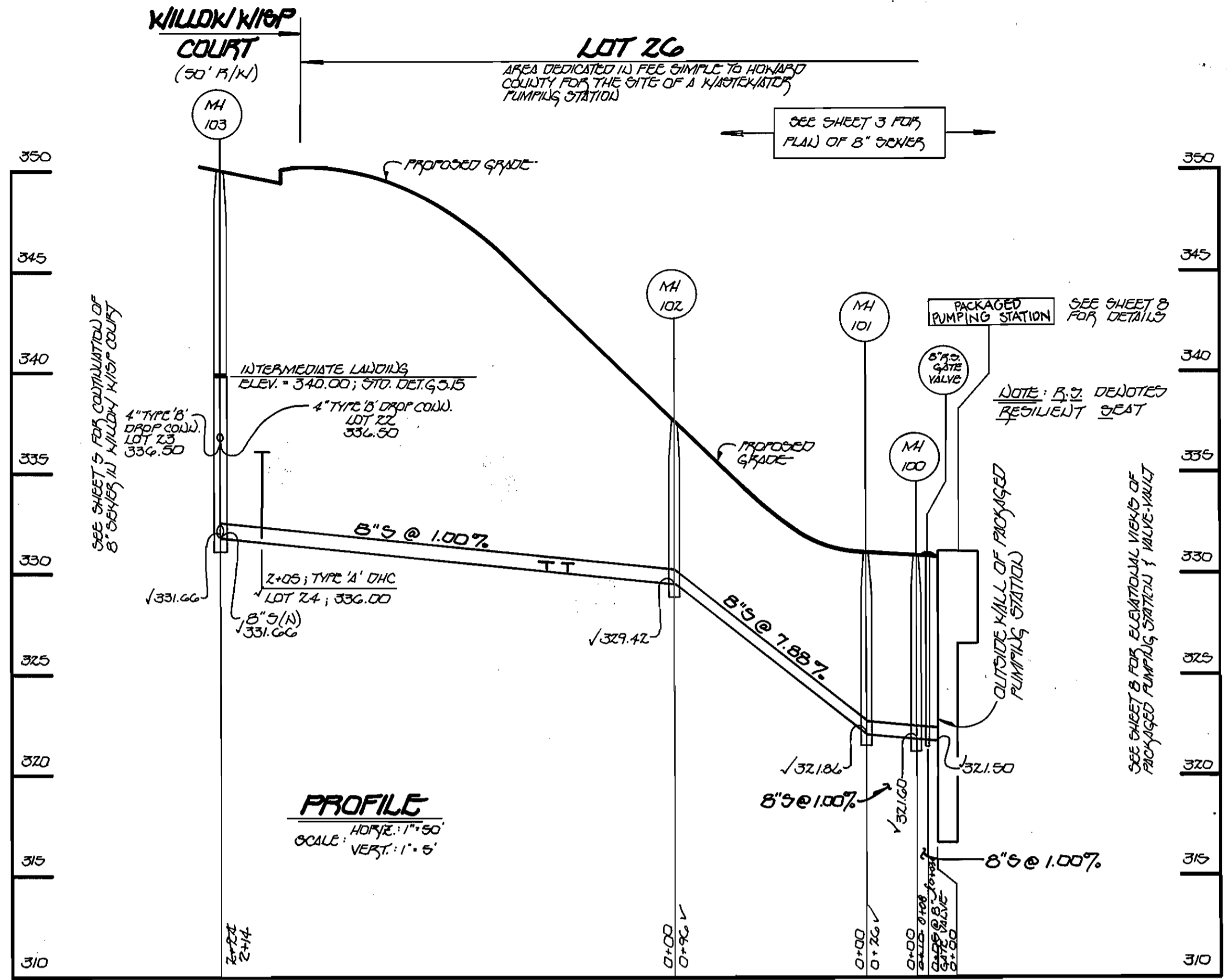
3374 ws/6 The Willows of Rocky Gorge



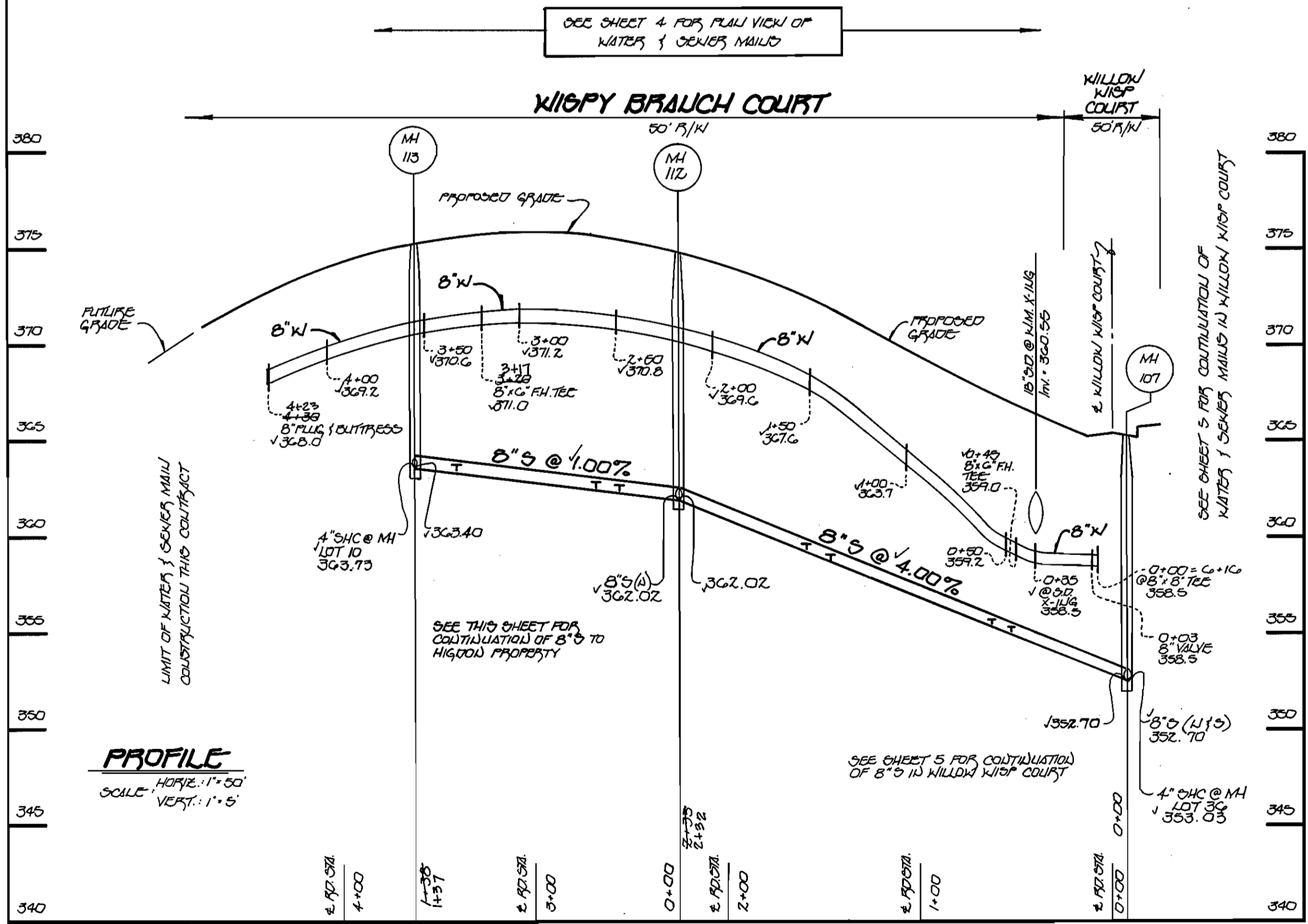
**8" SEWER & 4" WATER : LOT Nos. 40, 41 & 42**



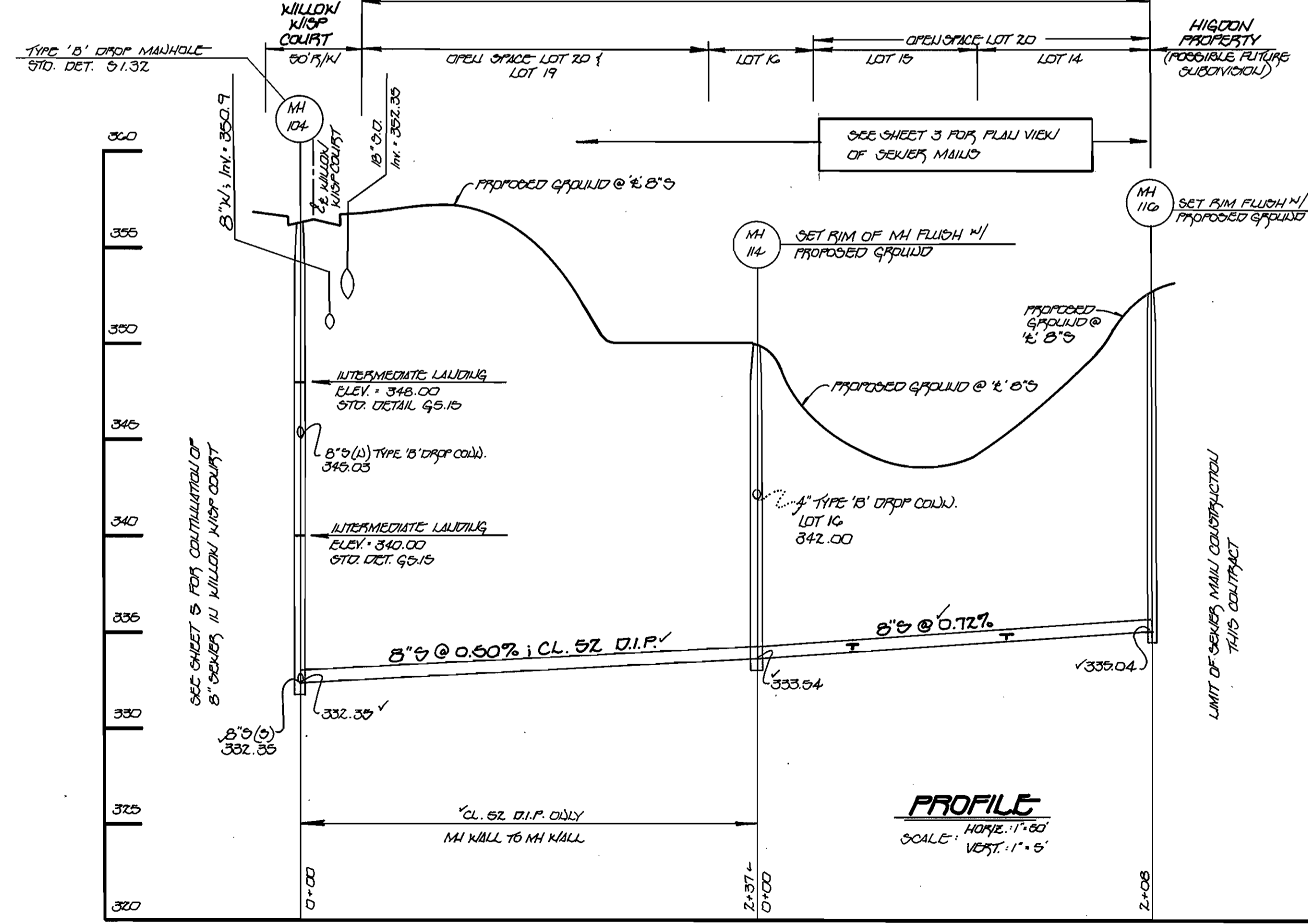
**4" WATER MAIN : LOT Nos. 14, 15 & 16**



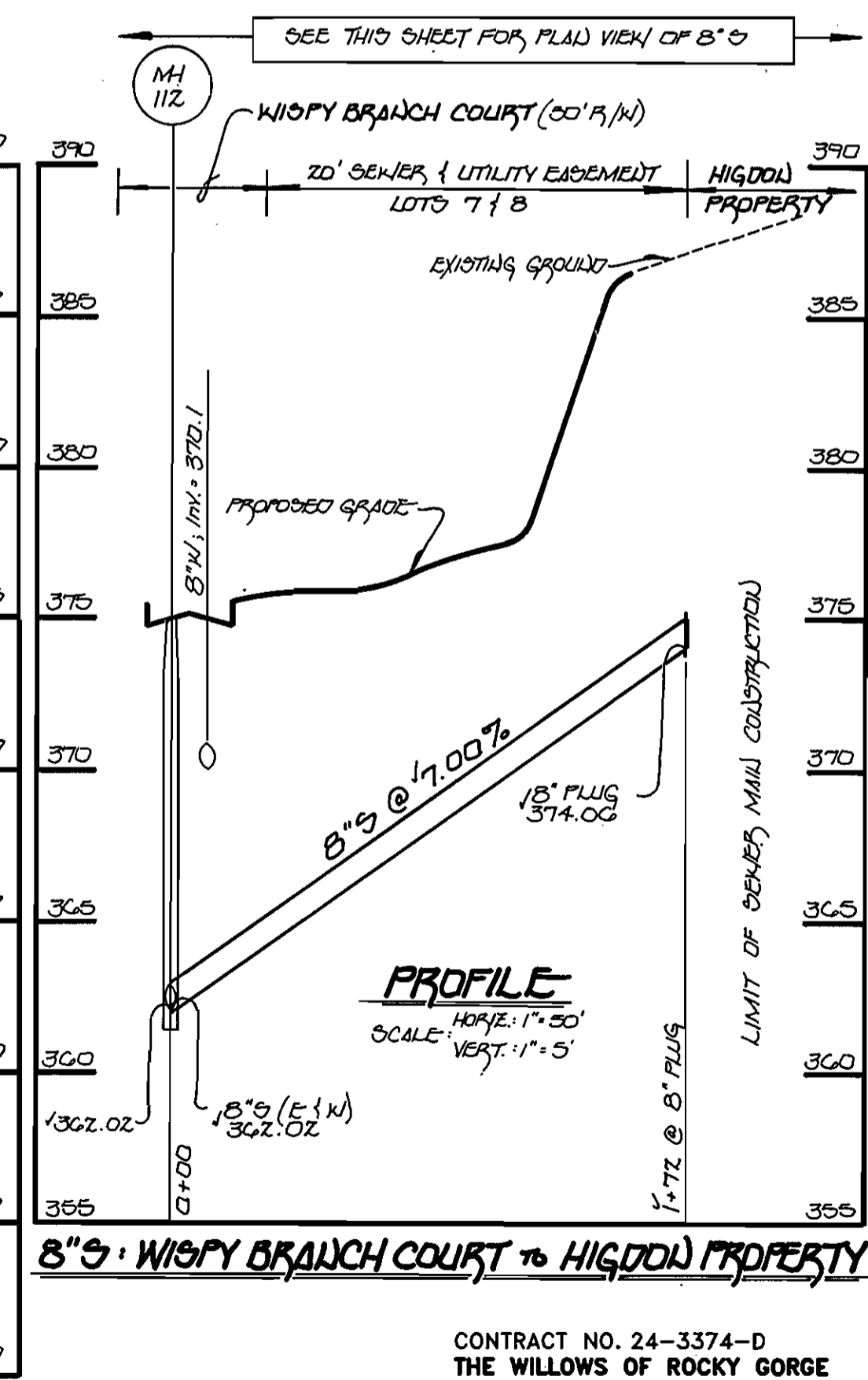
**8" SEWER TO PUMPING STATION**



**8" WATER & 8" SEWER : WISPY BRANCH COURT**



**8" S : WILLOW WISP COURT TO HIGDON PROPERTY**



**8" S : WISPY BRANCH COURT TO HIGDON PROPERTY**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
5/23/95  
5-23-95

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERS & LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855

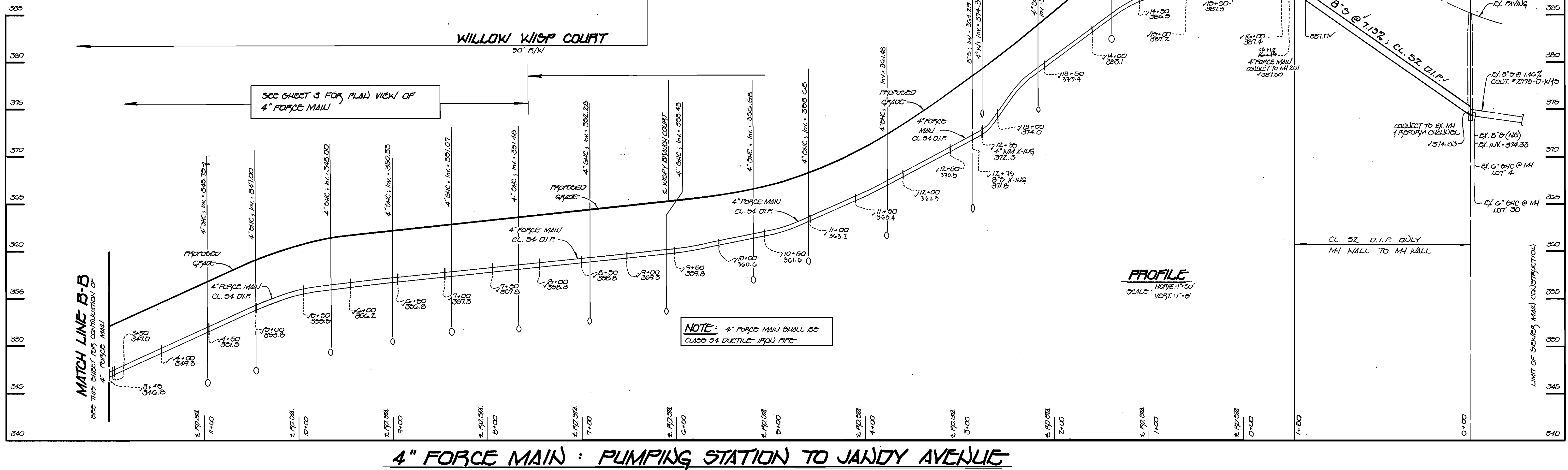
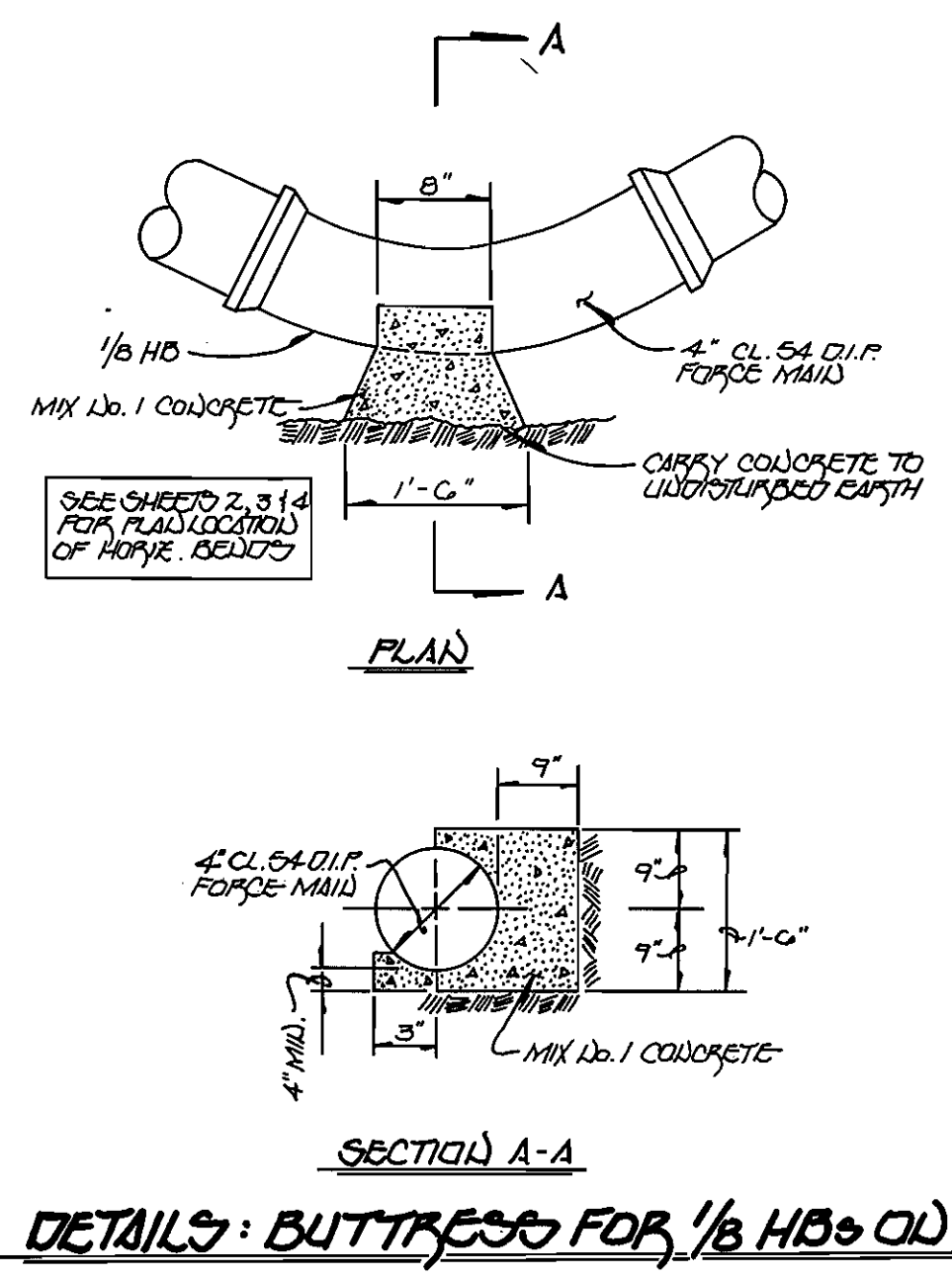
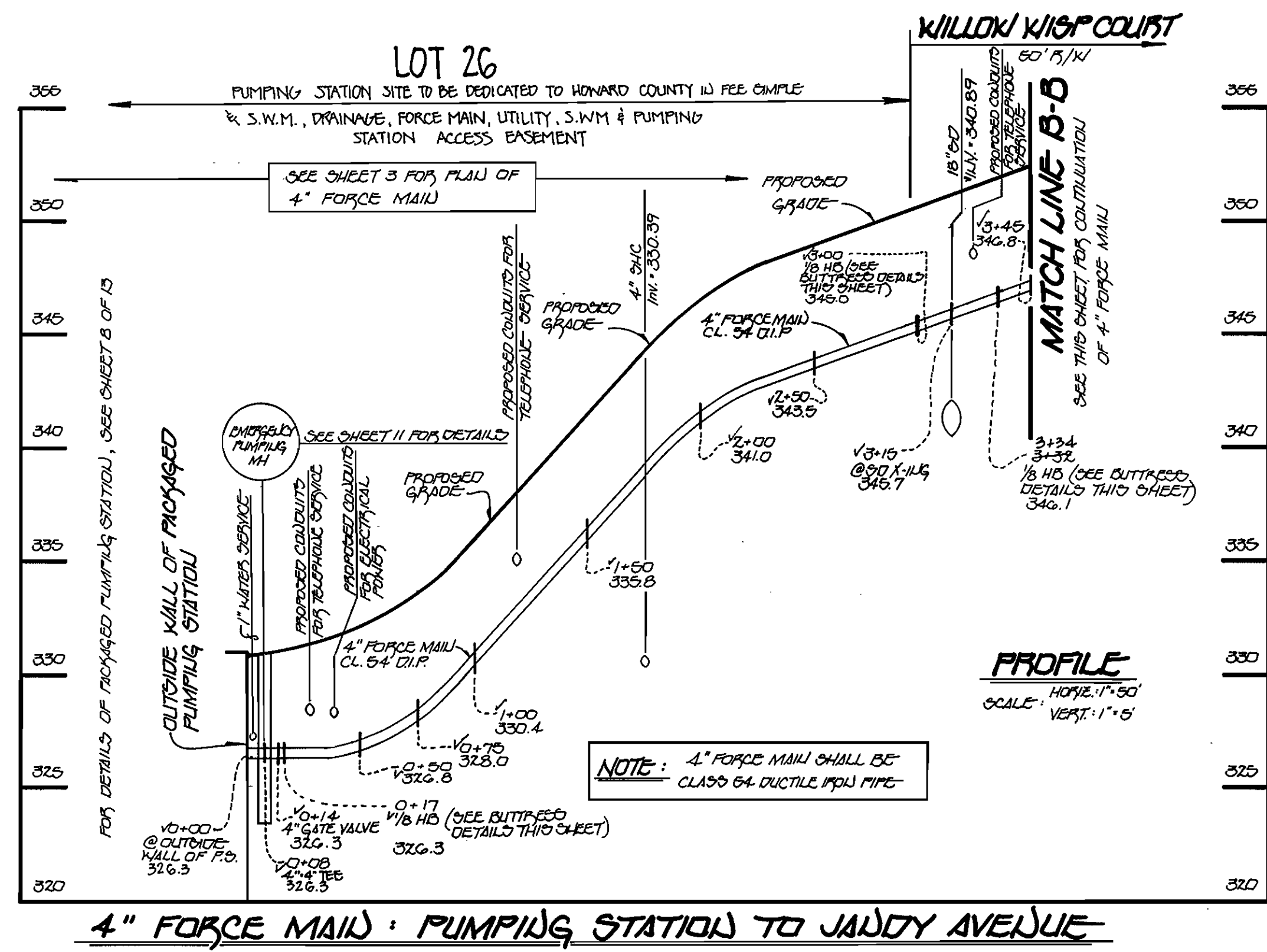
DES:	M.J.M.
DRWN:	M.J.M./J.M.M.
CHK:	P.W.K.
DATE:	
BY:	NO.
REVISION:	
DATE:	

PROFILES  
WATER & SEWER MAINS  
600' SCALE MAP NO. 46 BLOCK NO. 11

THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 6 OF 13

CONTRACT NO. 24-3374-D  
THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND

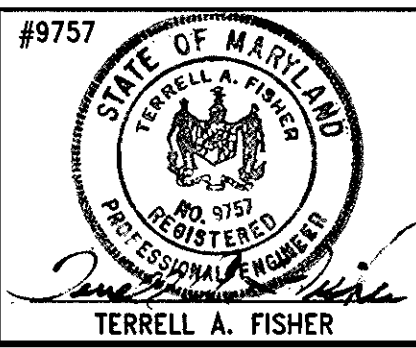
3374 ws/7 The Willows of Rocky Gorge



CONTRACT NO. 24-3374-D  
 THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 WATER AND SEWER EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 James H. Lewis 5/26/95  
 DIRECTOR OF PUBLIC WORKS DATE  
 Robert S. Seiser 5-23-95  
 CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461 - 2855



DES: M.J.M.			
DRWN: J.M.M.			
CHK: P.W.K.			
DATE:			
BY NO.		REVISION	DATE

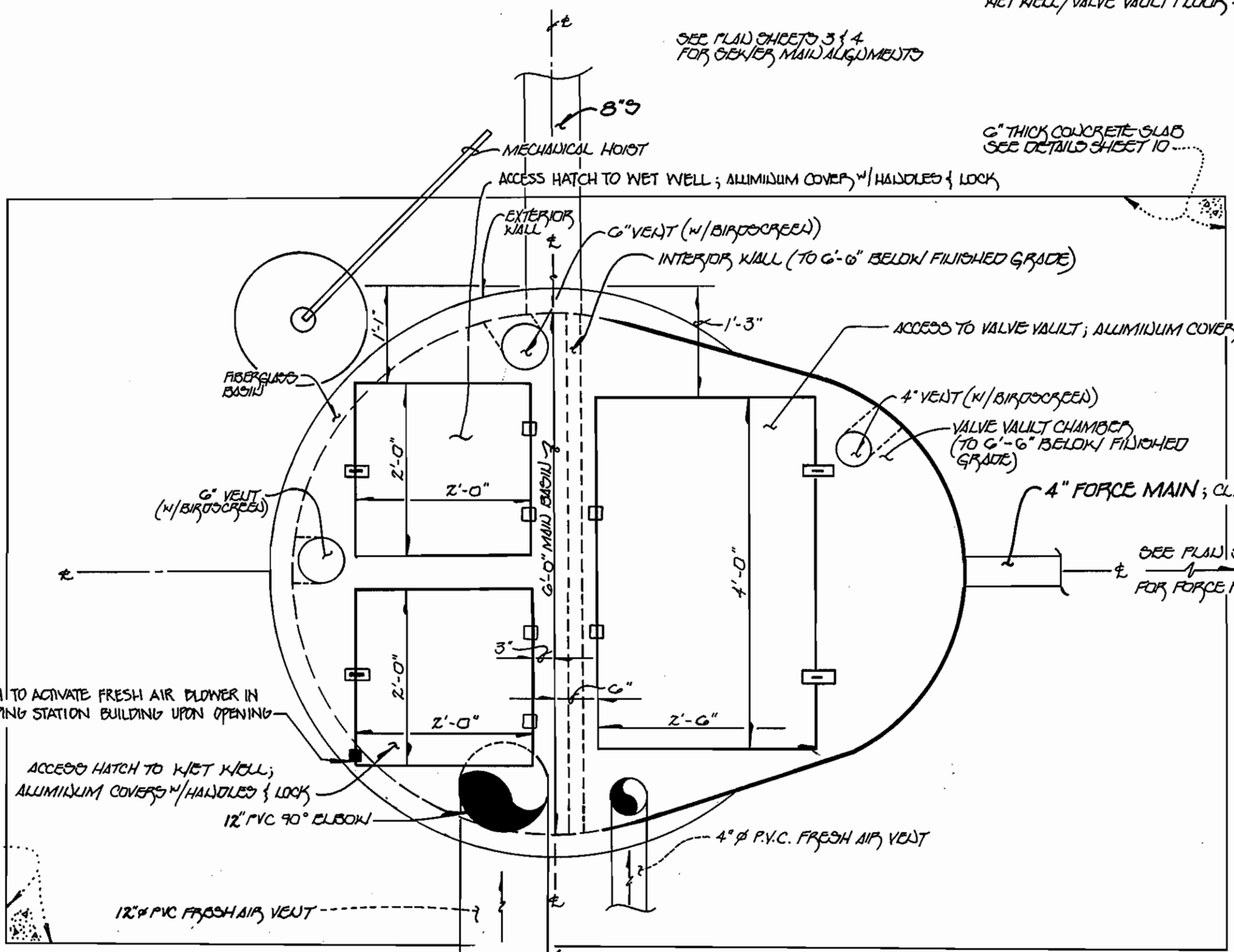
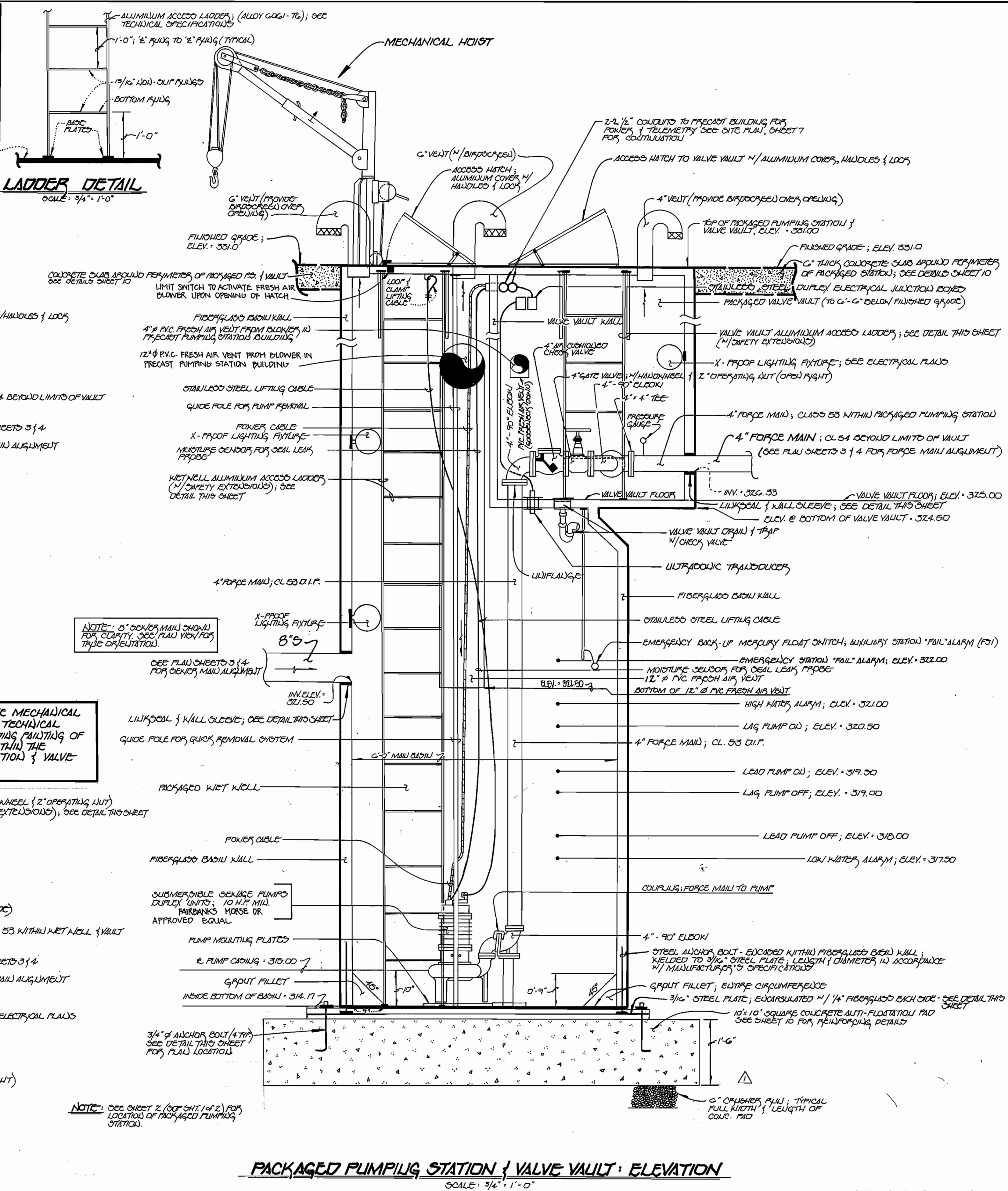
**4" FORCE MAIN PROFILE**

60' SCALE MAP NO. 46 BLOCK NO. 11

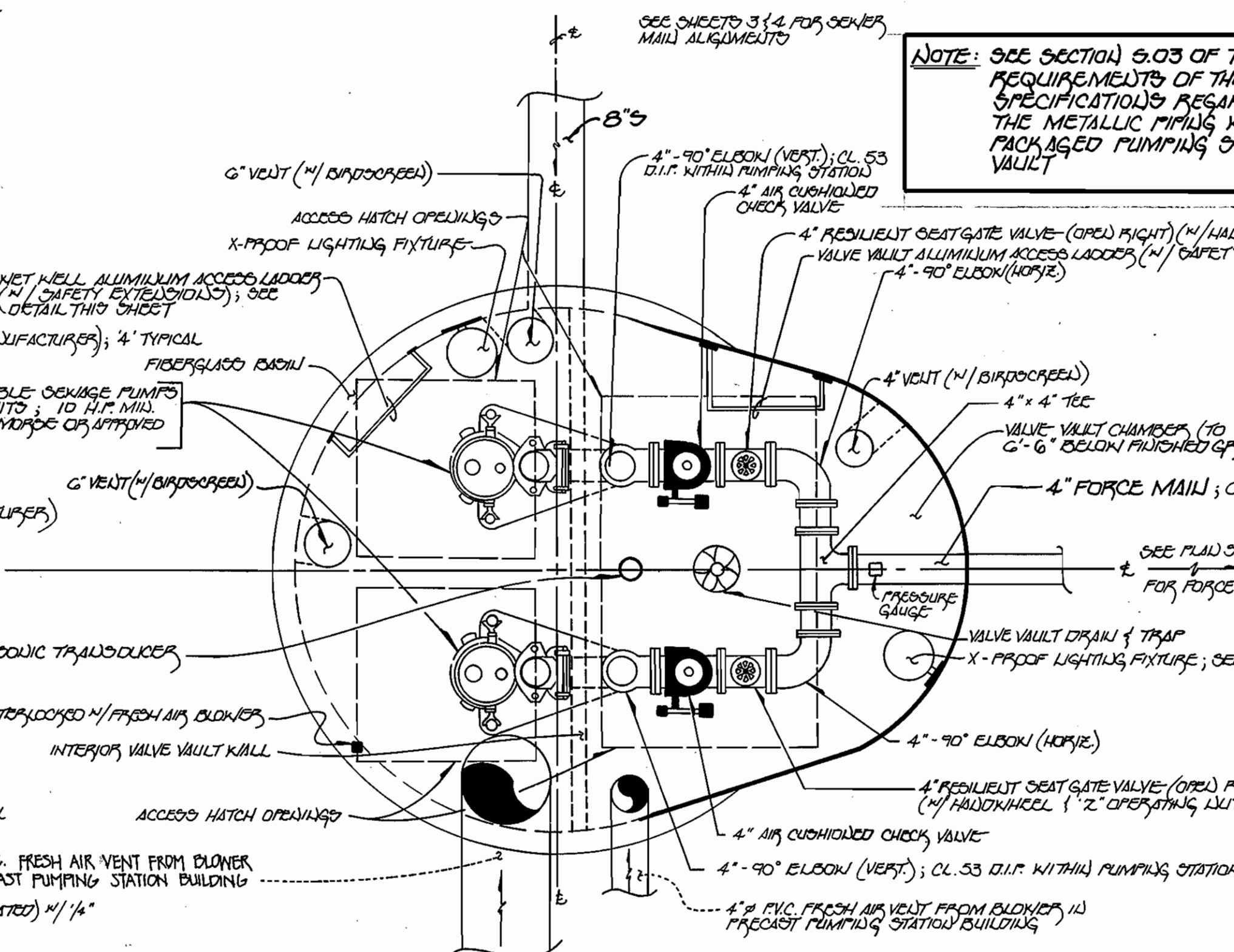
**THE WILLOWS OF ROCKY GORGE**  
 LOTS 1-45  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 7 OF 13

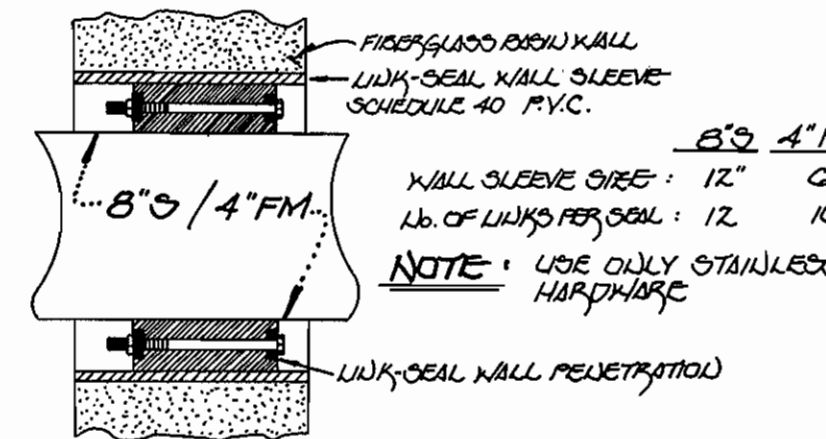
**NOTE:** THE PLAN & ELEVATION VIEWS DEPICTED ON THIS SHEET HAVE BEEN SCHEMATICALLY REPRODUCED FROM ILLUSTRATIONS CONTAINED IN BULLETIN No. 2611: QUICK REMOVE PACKAGED SYSTEM; INCLUDED IN A CATALOGUE PREPARED BY AND PROPERTY OF THE WEIL PUMP COMPANY OF CHICAGO, ILLINOIS. THE PACKAGED COMBINATION PUMPING STATION & VALVE VAULT SHALL BE MODEL No. 2611K102 AS MANUFACTURED BY THE WEIL PUMP COMPANY.



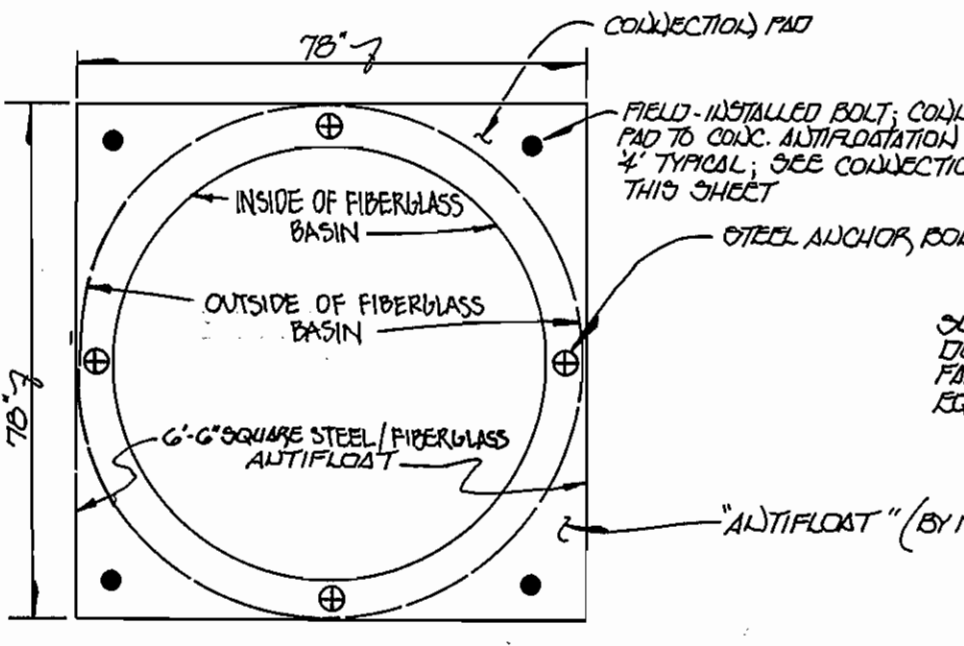
**PACKAGED PUMPING STATION & VALVE VAULT: PLAN VIEW - EXTERIOR**  
SCALE: 3/4" = 1'-0"



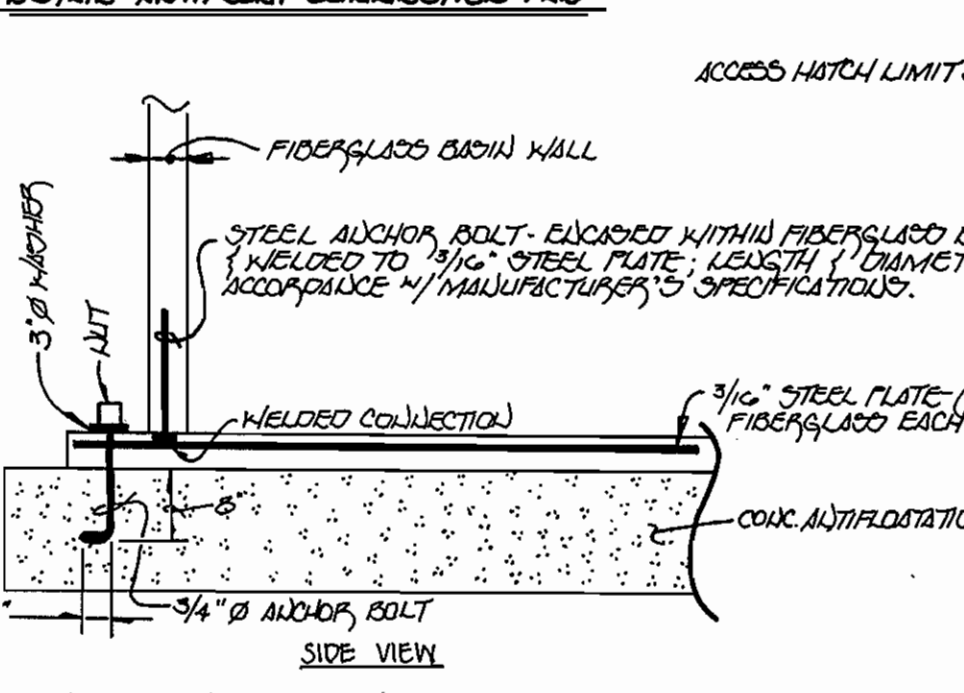
**PACKAGED PUMPING STATION & VALVE VAULT: PLAN VIEW - INTERIOR**  
SCALE: 3/4" = 1'-0"



**LINK-SEAL DETAIL**  
NO SCALE



**DETAIL: ANTIFLOAT CONNECTION PAD**



**CONNECTION DETAIL: ANTIFLOAT TO CONCRETE PAD**

**NOTE:** 6" SEWER MAIN SHOULD BE SHOWN FOR CLARITY. SEE PLAN VIEW FOR TRUE ORIENTATION.

**NOTE:** SEE SECTION 5.03 OF THE MECHANICAL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS REGARDING THE METALLIC PIPING WITHIN THE PACKAGED PUMPING STATION & VALVE VAULT.

**NOTE:** SEE SHEET 2 (TOP SHEET) FOR LOCATION OF PACKAGED PUMPING STATION.

\* NOT BUILT & CONSTRUCTED AS SHOWN \*

CONTRACT NO. 24-3374-D  
THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
James A. Lane 5/26/95  
DIRECTOR OF PUBLIC WORKS DATE  
Robert A. Baumgardner 5-23-95  
CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21104  
(410) 481-2855

#9757  
STATE OF MARYLAND  
TERRELL A. FISHER

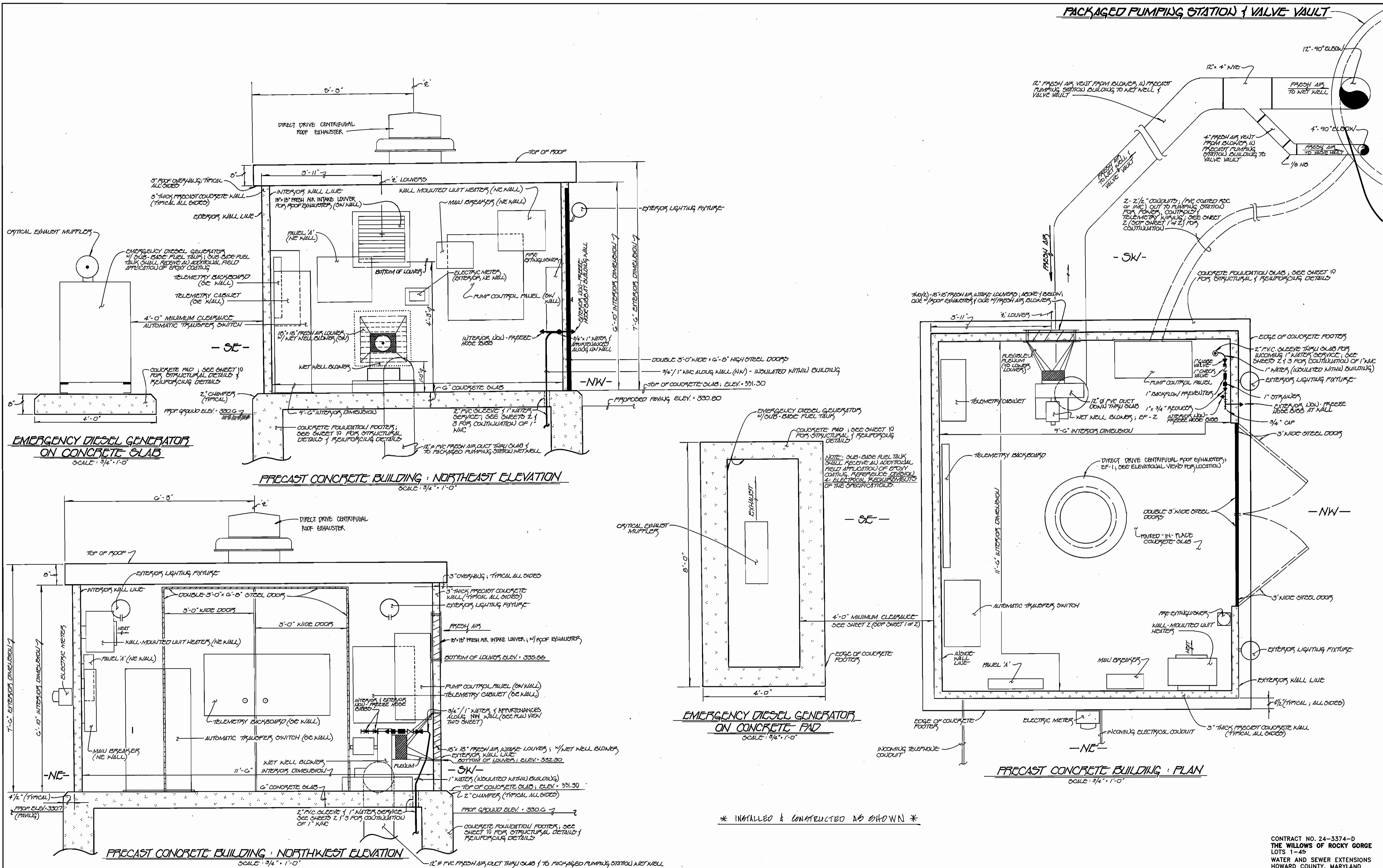
DES: M.J.M.	
DRWN: J.M.M.	
CHK: P.W.K.	
DATE: 5/26/95	
BY: J.M.M.	
NO. 1	
REVISION	

PACKAGED PUMPING STATION & VALVE VAULT  
PLAN & ELEVATION  
DATE: 5/26/95  
600' SCALE MAP NO. 46 BLOCK NO. 11

THE WILLOWS OF ROCKY GORGE  
LOTS 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 8 OF 13

3374 ws/B The Willows of Rocky Gorge



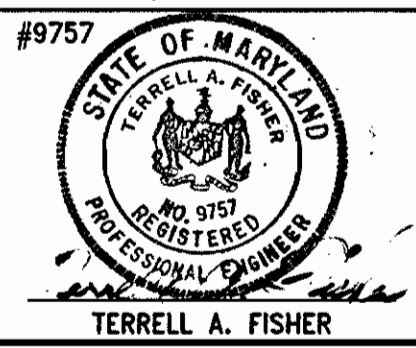


\* INSTALLED & CONSTRUCTED AS SHOWN \*

CONTRACT NO. 24-3374-D  
 THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 WATER AND SEWER EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 James M. Chew 5/26/95  
 DIRECTOR OF PUBLIC WORKS DATE  
 Robert W. Bennett 5-23-95  
 CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 451-2855

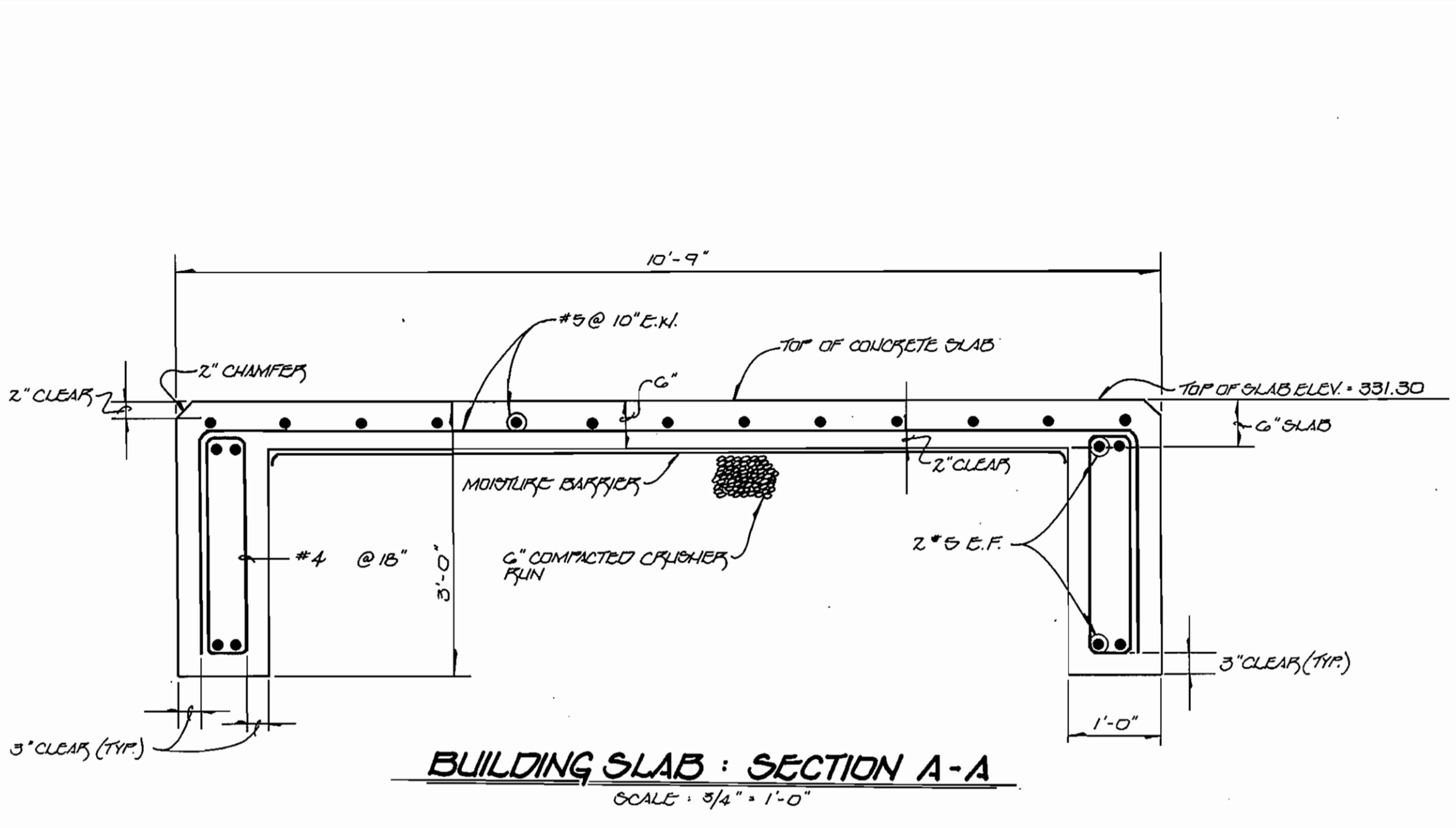
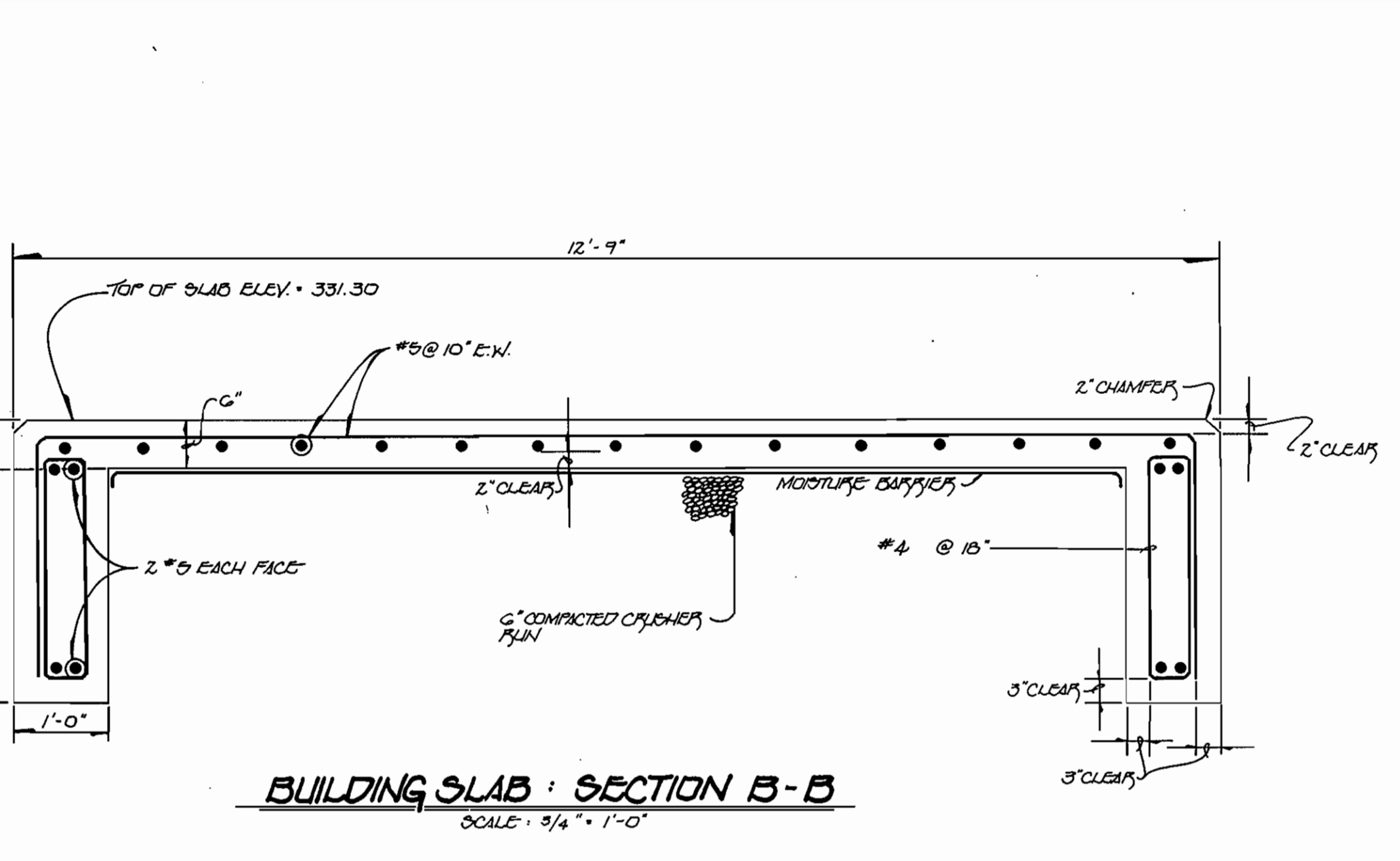
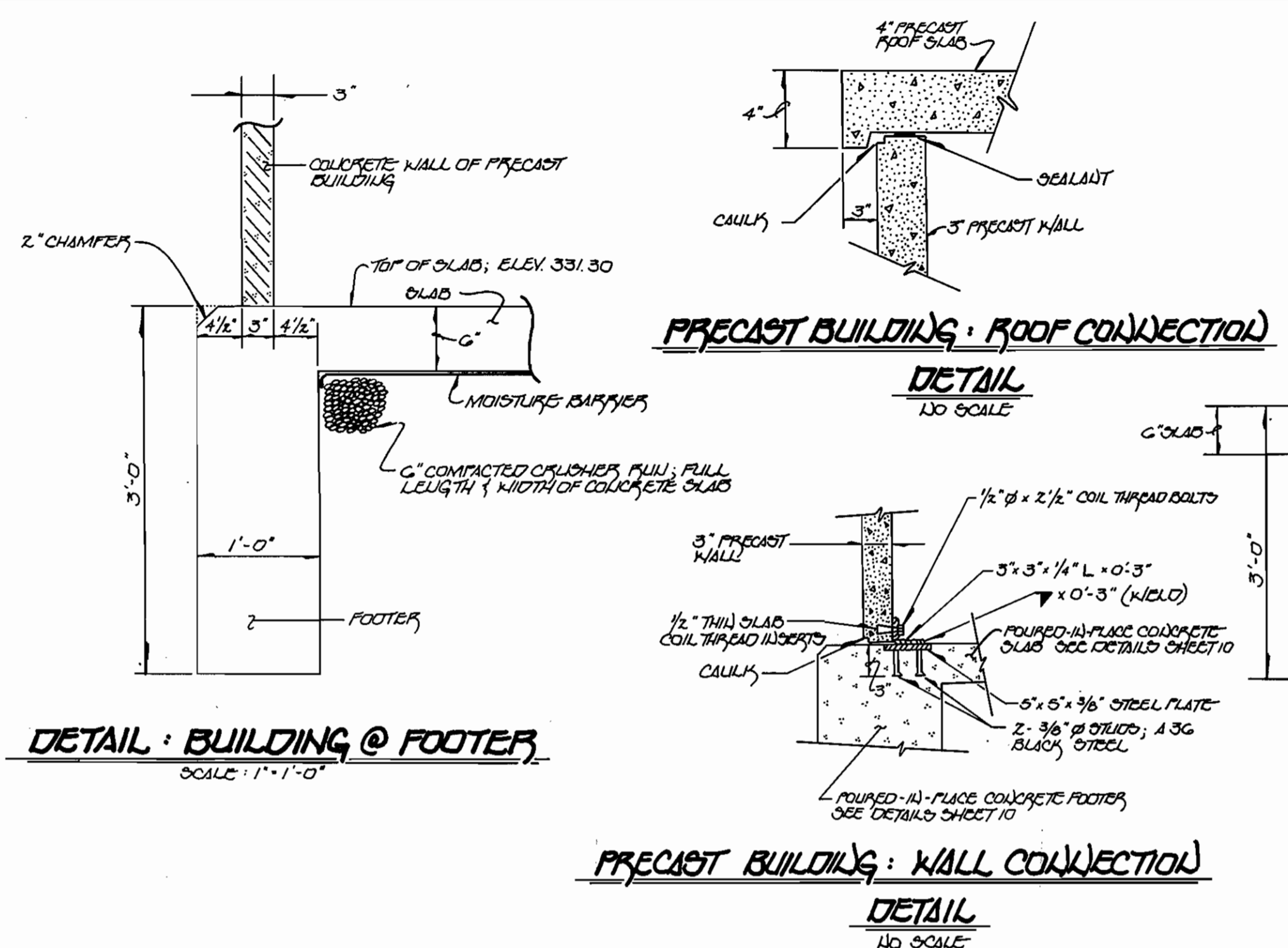


DES:	M.J.M.				
DRWN:	M.J.M./J.M.M.				
CHK:	P.W.K.				
DATE:					
BY:		NO.		REVISION	

PRECAST CONCRETE BUILDING  
 PLAN & ELEVATIONS  
 600' SCALE MAP NO. 46 BLOCK NO. 11

THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 9 OF 13

3374 ws/9 The Willows of Rocky Gorge



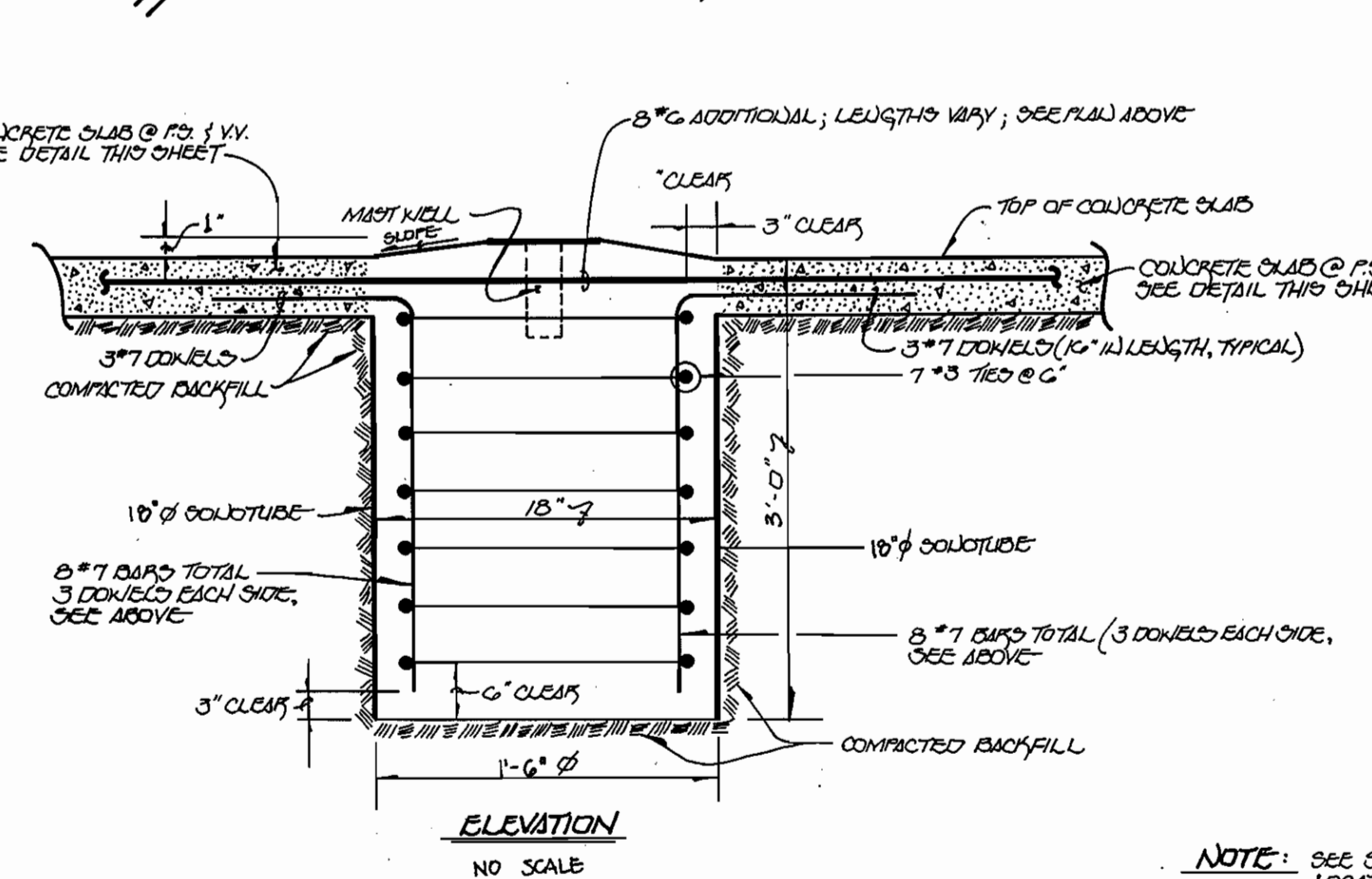
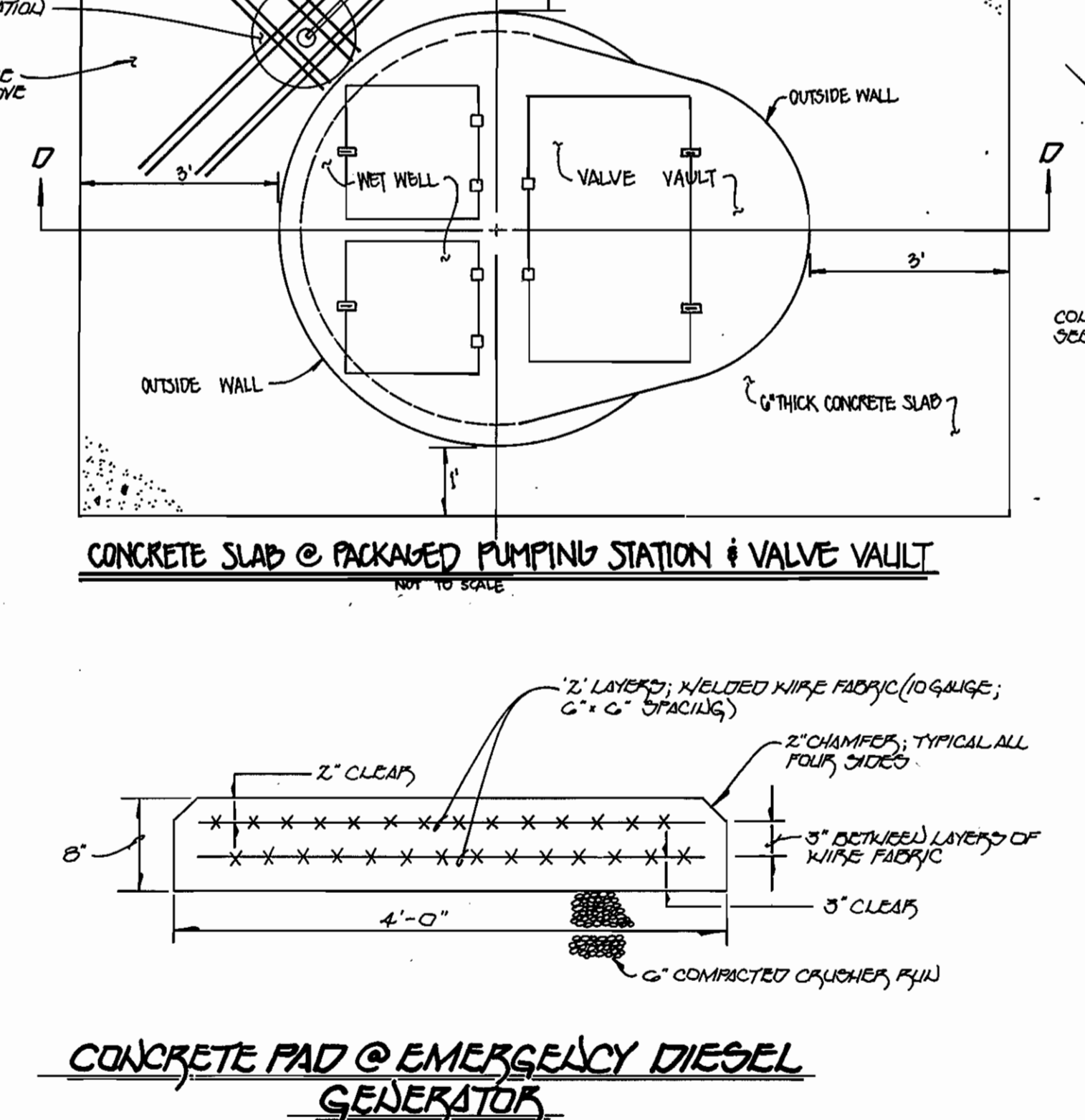
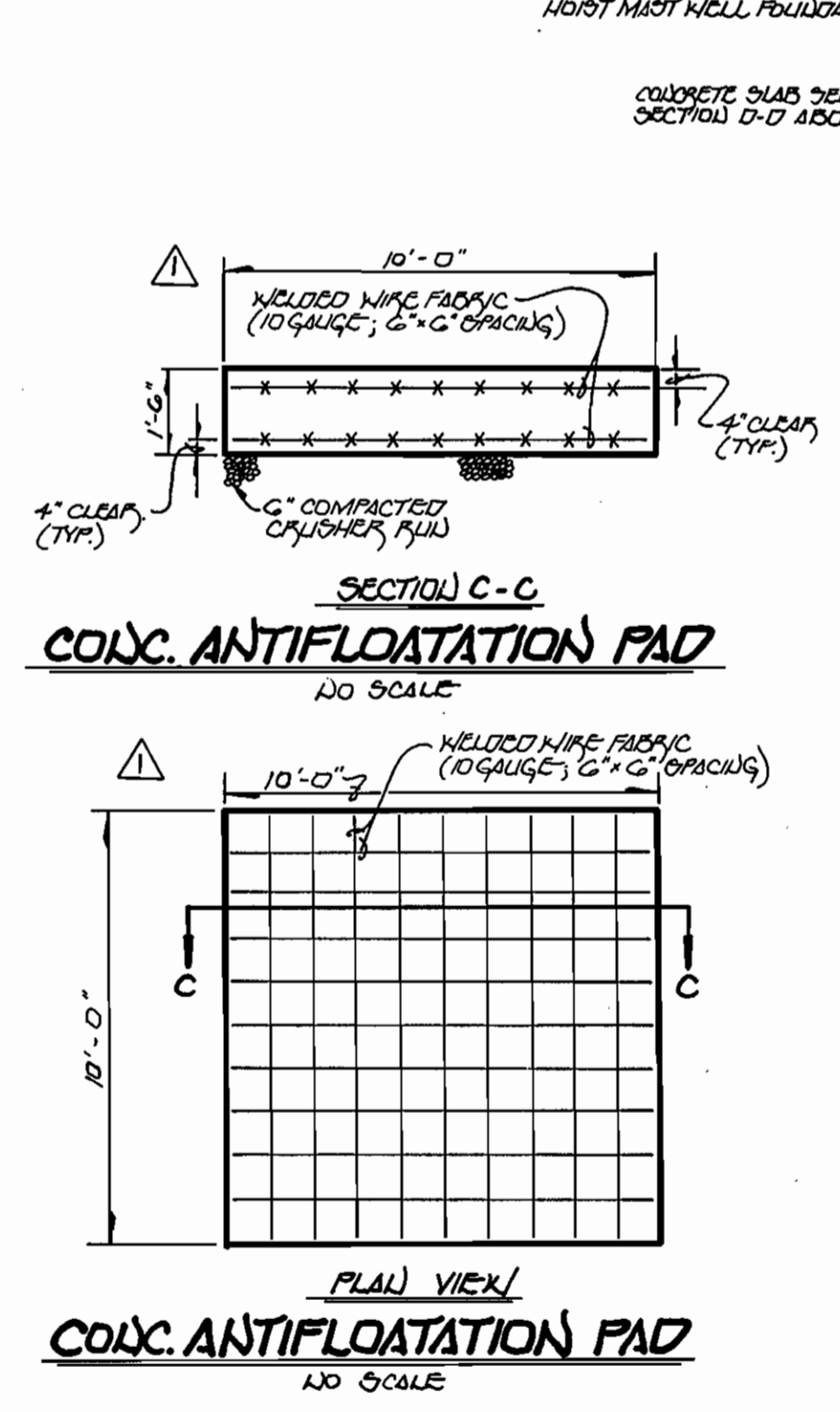
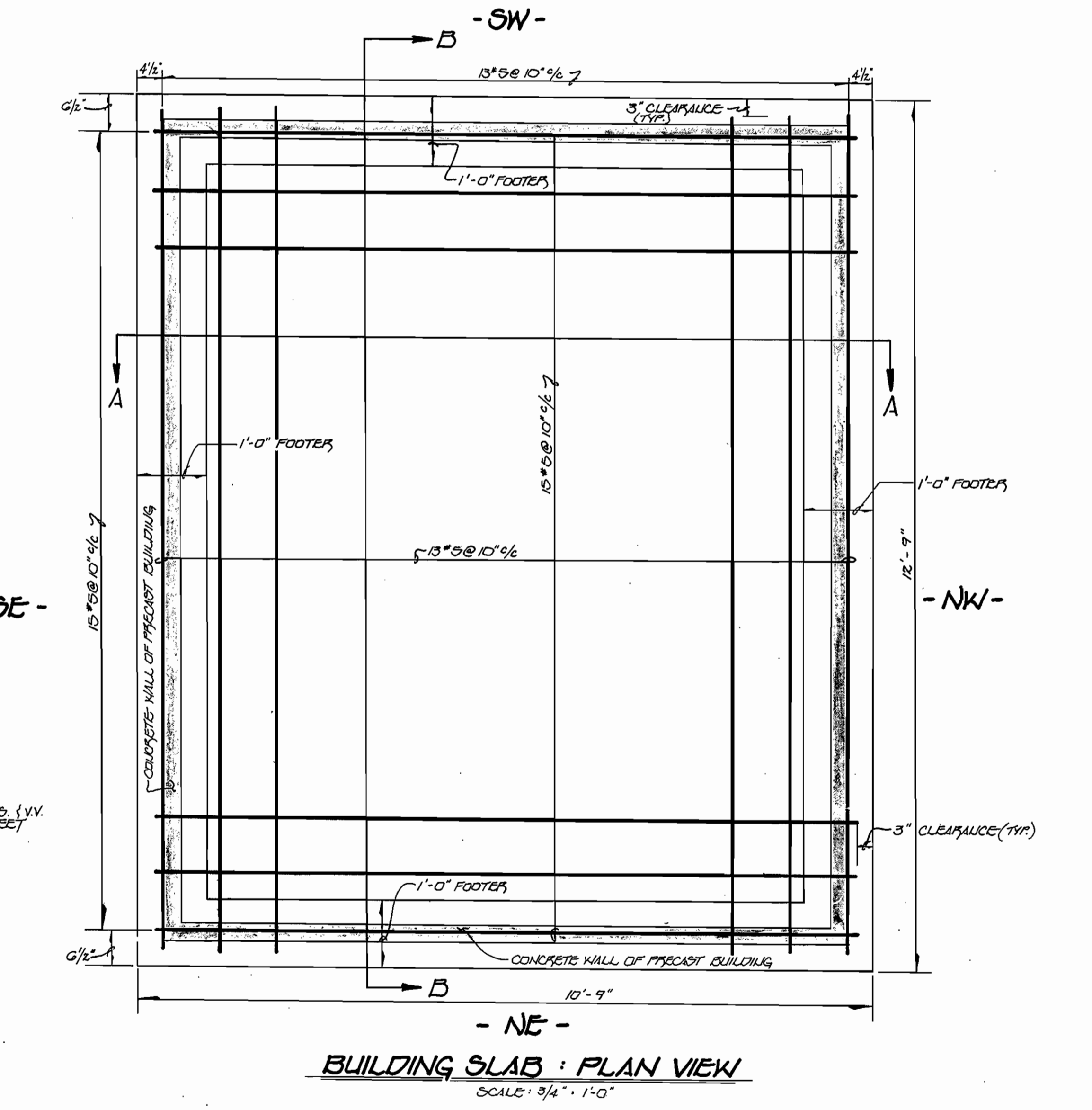
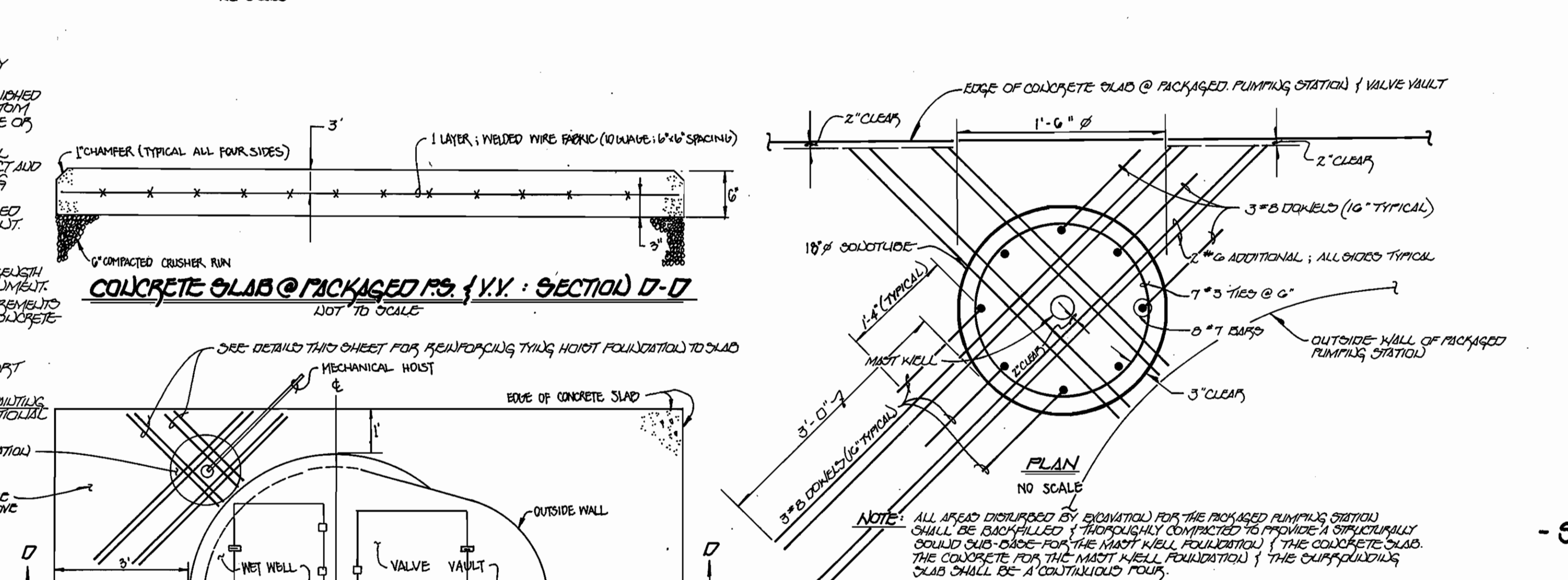
**STRUCTURAL NOTES**

**FOUNDATIONS AND EARTH WORK:**

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 2000 PSF.
- BOTTOM OF FOOTINGS SHALL BE 2'-0" MINIMUM BELOW FINISHED GRADE. EXCAVATE AT LEAST 6" INTO ORIGINAL SOIL. WHERE BOTTOM OF FOOTING IS ABOVE THIS ELEVATION, FILL WITH COURSE STRIKE OF STRUCTURAL FILL, COMPACTED TO 95% DENSITY.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO FURNISH ANY FILL OPERATIONS AND TO INSPECT AND CERTIFY THE BEARING CAPACITY OF THE SOIL PRIOR TO POURING FOOTINGS.
- BACKFILL SHALL CONSIST OF CLEAN, FORDUS MATERIAL PLACED IN 6" LAYERS AND COMPACTED WITH APPROPRIATE EQUIPMENT.

**CONCRETE:**

- ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS, AND SHALL HAVE 5% AIR ENTRAINED.
- CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, A.C.I. 318, BY THE AMERICAN CONCRETE INSTITUTE, LATEST EDITION.
- REINFORCING STEEL SHALL BE ASTM A 615 GRADE 60.
- PROVIDE BRACES, CHAIRS AND TIES AS REQUIRED TO SUPPORT REINFORCING IN POSITION.
- REFERENCE DIVISION 6 - STRUCTURAL ARCHITECTURAL & FINISHES REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



NOTE: SEE SHEET 2 (TOP SHEET 1 OF 2) FOR LOCATION OF THE PRECAST CONCRETE BUILDING, THE EMERGENCY DIESEL GENERATOR, & THE MECHANICAL HOIST.

\* INSTALLED & CONSTRUCTED AS SHOWN \*

CONTRACT NO. 24-3374-D  
 THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 WATER AND SEWER EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

James M. Lewis 5/22/95  
 DIRECTOR OF PUBLIC WORKS DATE

Robert B. ... 5-23-95  
 CHIEF, BUREAU OF UTILITIES DATE

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2855

DES:	M.J.M.				
DRWN:	J.M.M.				
CHK:	P.W.K.				
DATE:	FCC	REVISION DIMENSIONS & CHANGES FOR ANTI-FLOATATION PADS	9/16/95		
BY:	NO.	REVISION		DATE	

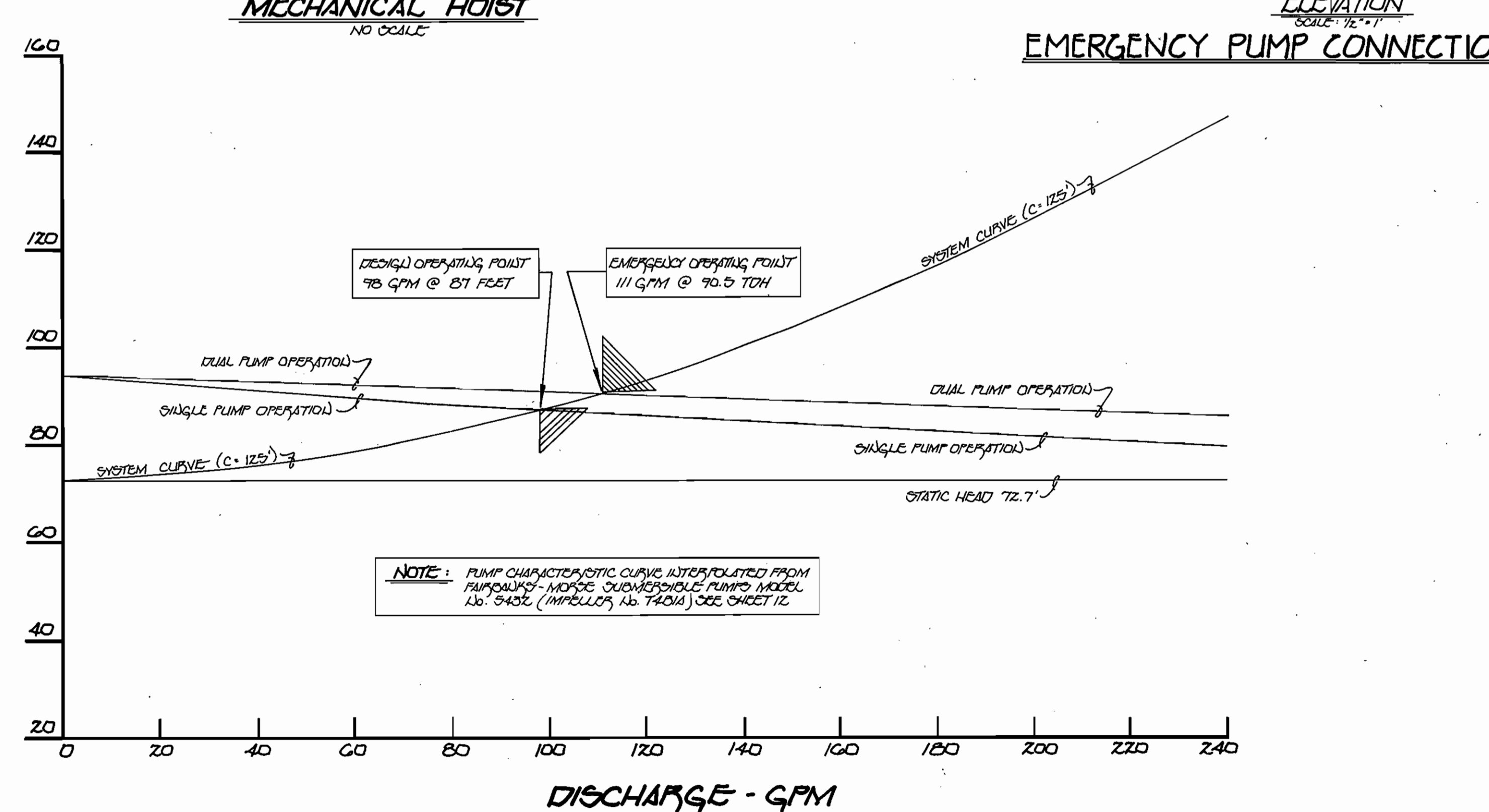
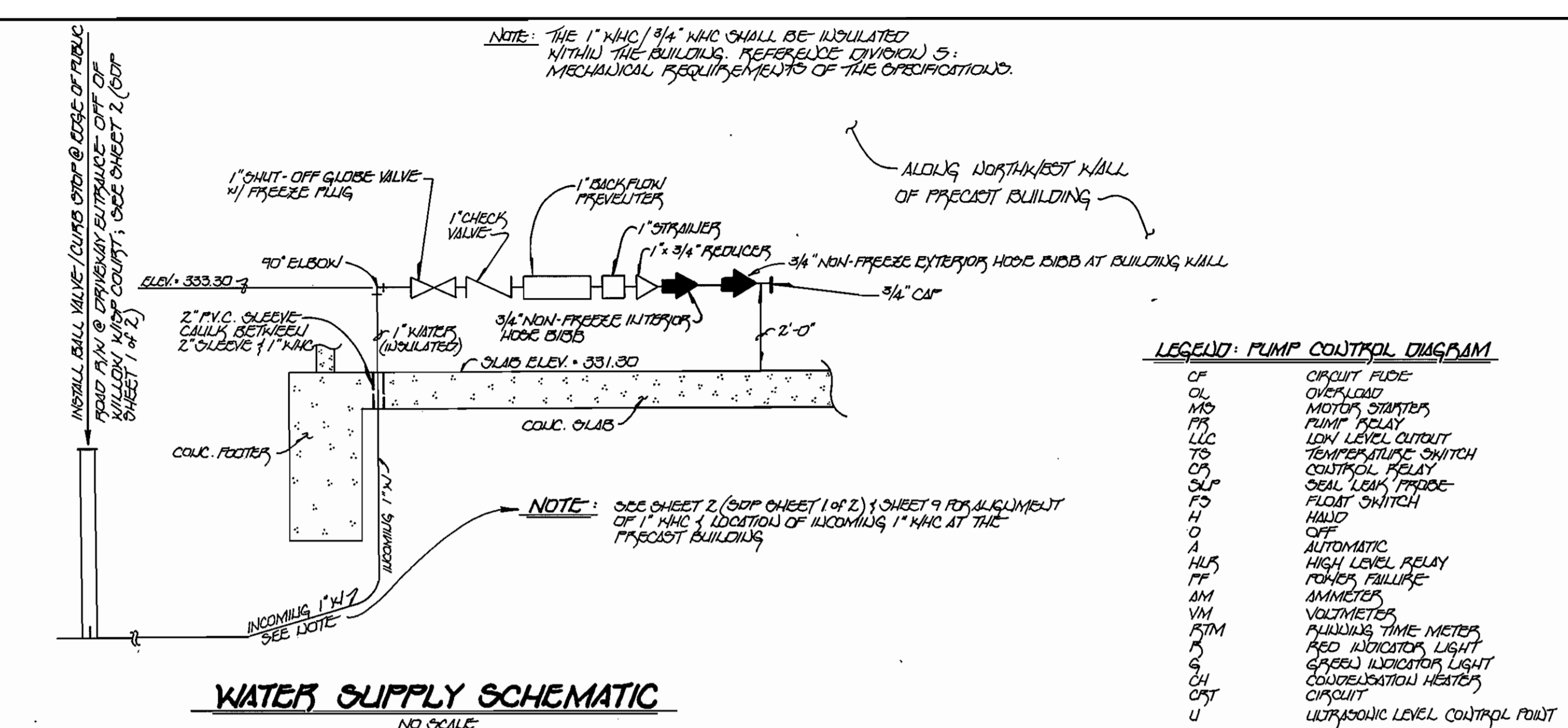
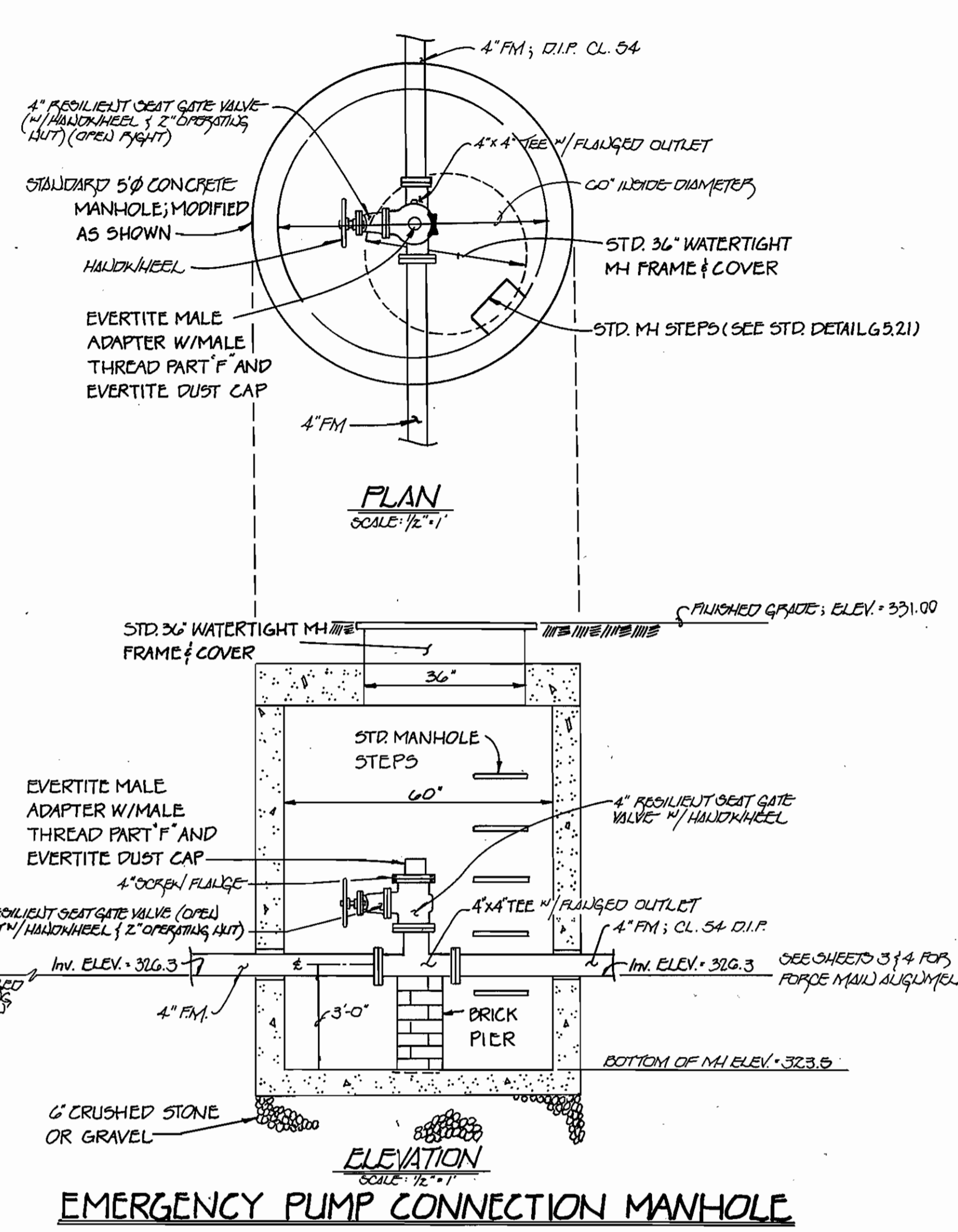
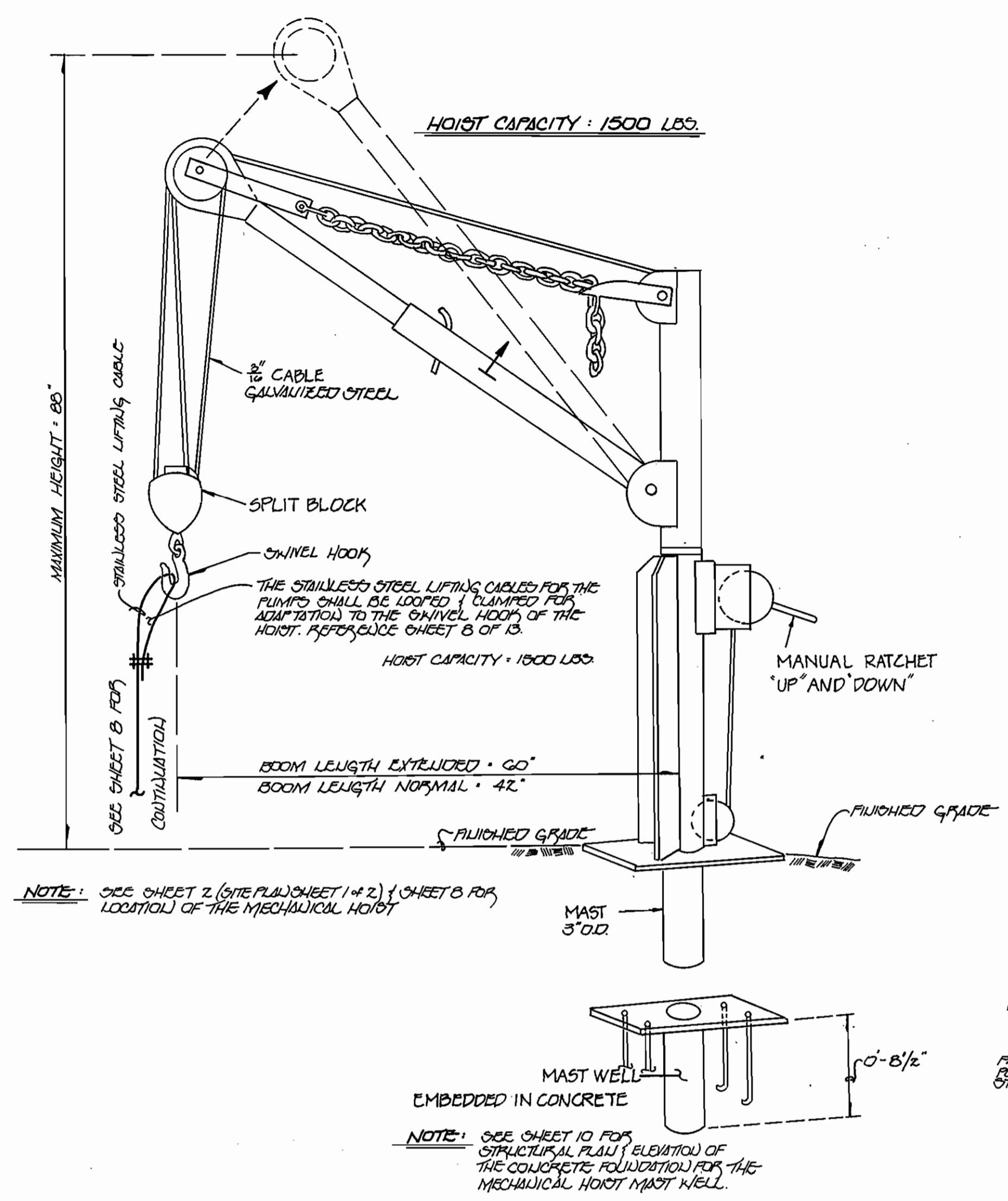
STRUCTURAL PLAN & DETAILS

600' SCALE MAP NO. 46 BLOCK NO. 11

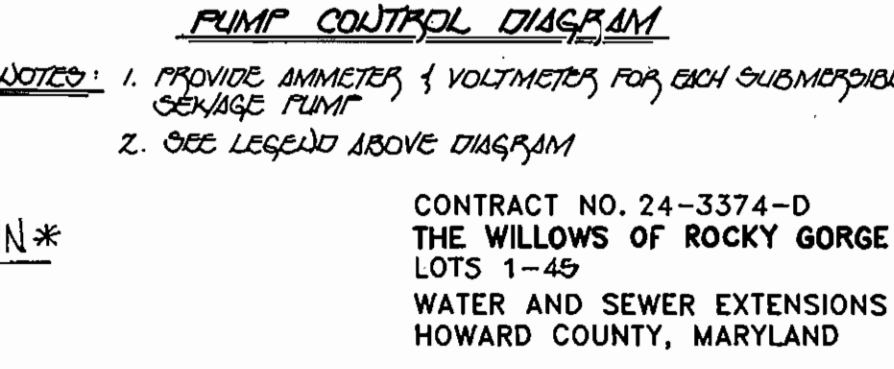
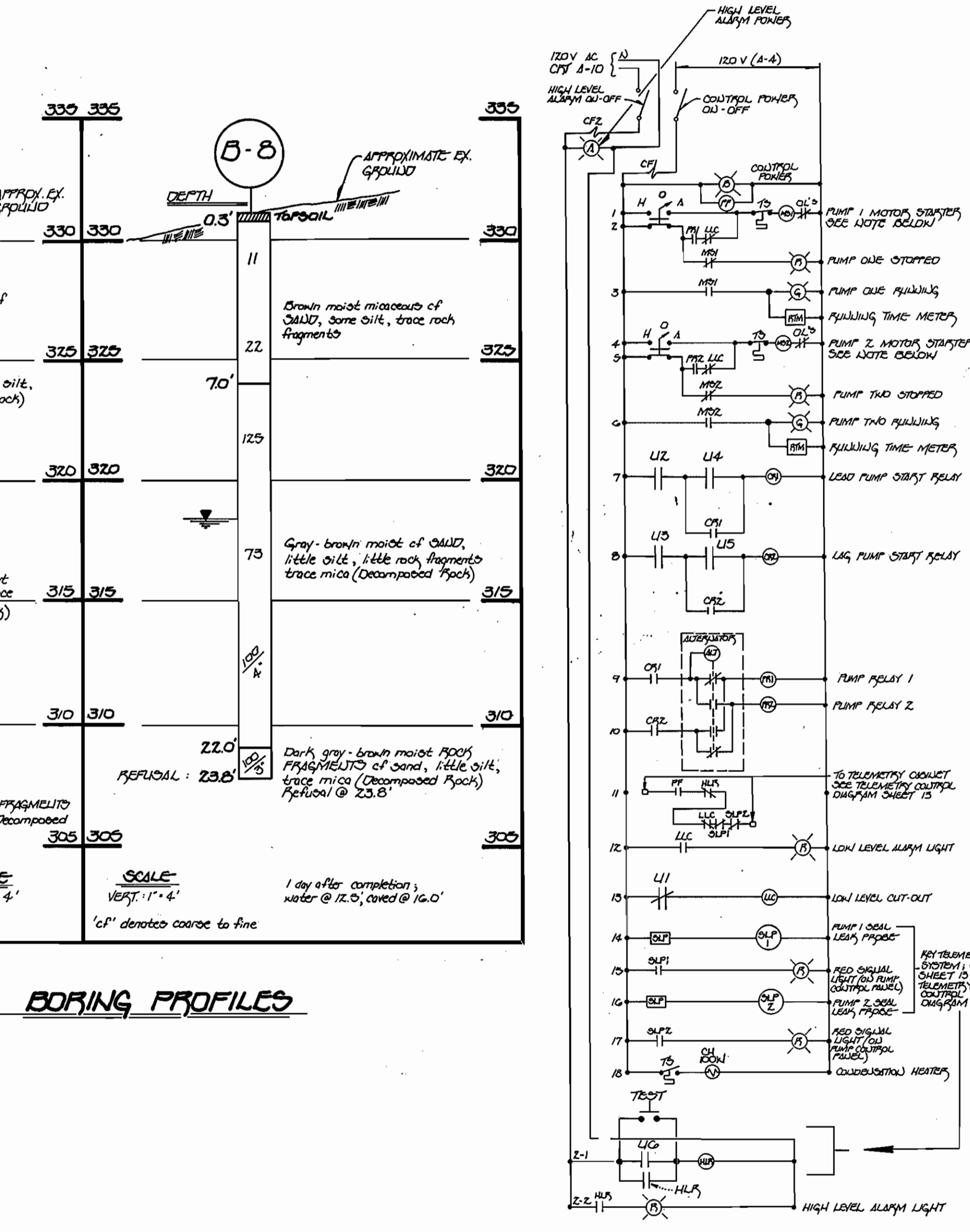
THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 10 OF 13

ws/11 The Willows of Rocky Gorge

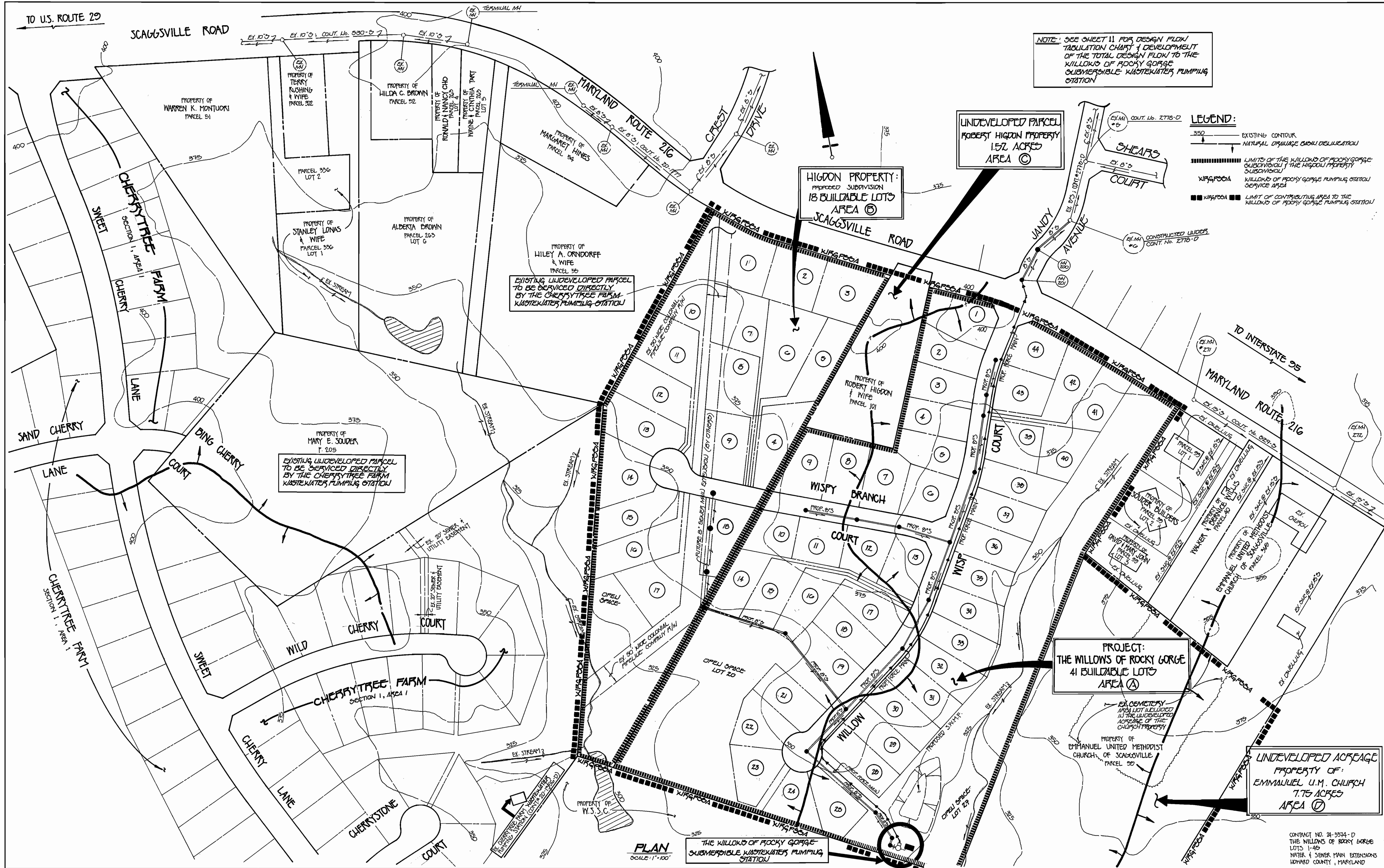


DRAINAGE AREA #	SEWER	ULTIMATE POPULATION	AVERAGE DOMESTIC FLOW	PEAK DOMESTIC FLOW	NON-DOMESTIC FLOW	INFILTRATION	TOTAL FLOW	DESIGN FLOW
WILLOW PROPERTY GARAGE BUILDABLE LOT	R-20	143.0 persons	10,332 gpd	41,320 gpd	- 0 -	3,740 gpd	47,068 gpd	32.7 gpm
HIGGINS PROPERTY SUBDIVISION BUILDABLE LOT	R-20	63 persons	4,536 gpd	18,144 gpd	- 0 -	2,520 gpd	20,664 gpd	14.4 gpm
UNDEVELOPED PARCEL 1.82 ACRES	R-20	9.1 persons	655 gpd	2,620 gpd	- 0 -	364 gpd	2,984 gpd	2.1 gpm
UNDEVELOPED PARCEL EMMAUS CHURCH PROPERTY	R-20	46.2 persons	3,326 gpd	13,304 gpd	- 0 -	1,848 gpd	15,152 gpd	10.5 gpm
TOTAL ALL AREAS	ALL AREAS	261.5 persons	18,849 gpd	75,396 gpd	- 0 -	10,472 gpd	85,824 gpd	59.7 gpm



ws/12 The Willows of Rocky Gorge

3374



NOTE: SEE SHEET 11 FOR DESIGN FLOW TABULATION CHART & DEVELOPMENT OF THE TOTAL DESIGN FLOW TO THE WILLOWS OF ROCKY GORGE SUBMERSIBLE WASTEWATER PUMPING STATION

**LEGEND:**  
 350 ——— EXISTING CONTOUR  
 ——— NATURAL DRAINAGE BASIN DELINEATION  
 ——— LIMITS OF THE WILLOWS OF ROCKY GORGE SUBDIVISION (THE HIGDON PROPERTY SUBDIVISION)  
 XIRGPOA WILLOWS OF ROCKY GORGE PUMPING STATION SERVICE AREA  
 ■ XIRGPOA ■ LIMIT OF CONTRIBUTING AREA TO THE WILLOWS OF ROCKY GORGE PUMPING STATION

EXISTING UNDEVELOPED PARCEL TO BE SERVICED DIRECTLY BY THE CHERRYTREE FARM WASTEWATER PUMPING STATION

EXISTING UNDEVELOPED PARCEL TO BE SERVICED DIRECTLY BY THE CHERRYTREE FARM WASTEWATER PUMPING STATION

UNDEVELOPED PARCEL ROBERT HIGDON PROPERTY 1.52 ACRES AREA (C)

HIGDON PROPERTY: PROPOSED SUBDIVISION 18 BUILDABLE LOTS AREA (B)

PROJECT: THE WILLOWS OF ROCKY GORGE 41 BUILDABLE LOTS AREA (A)

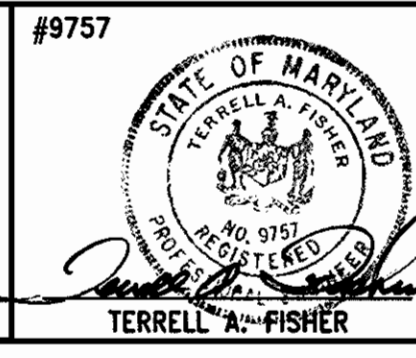
UNDEVELOPED ACREAGE PROPERTY OF: EMMANUEL U.M. CHURCH 7.75 ACRES AREA (D)

THE WILLOWS OF ROCKY GORGE SUBMERSIBLE WASTEWATER PUMPING STATION

CONTRACT NO. 24-3374-D THE WILLOWS OF ROCKY GORGE LOTS 1-45 WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *James A. Shaw* 5/26/95  
 Chief, Bureau of Utilities: *Robert W. Beaman* 5-23-95  
 Chief, Bureau of Engineering: *William J. Ryan* 5/25/95  
 Chief, Land Development Division: *William J. Ryan* 5/25/95

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2855



DES: M.J.M.	BY NO.	REVISION	DATE
DRWN: M.J.M.			
CHK: P.W.K.			
DATE:			

DRAINAGE AREA MAP  
 600' SCALE MAP NO. 46-2 BLOCK NO. 11

THE WILLOWS OF ROCKY GORGE  
 LOTS 1-45  
 CONTRACT NO. 24-3374-D  
 SIXTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 12 OF 13

3374 ws/13 The Willows of Rocky Gorge

**DRAWING NOTES**

- PROVIDE PILOT LIGHT & THERMOC JUMPER PLATE - VAULT LIGHTS
- MOUNT WHERE DIRECTED
- STRUCTURAL DETAILS OF THE CONCRETE PAD FOR THE DIESEL GENERATOR ARE INDICATED ON SHEET 10 OF THESE PLANS
- CONNECT TO RELAY IN TRANSFORMER SWITCH (ALL POWER LOST - TELEMETRY FAIL)
- MOUNT APPROXIMATELY TO MAIN BREAKERS, GROUND IS REQUIRED

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
(Symbol)	LIGHTING FIXTURE - FLUORESCENT - TYPE AS INDICATED
(Symbol)	LIGHTING FIXTURE - WALL MOUNTED - TYPE AS INDICATED
(Symbol)	DUPLEX RECEPTACLE - 20A, 125V - MOUNTING HEIGHT 18" UNLESS NOTED OTHERWISE
(Symbol)	GFI RECEPTACLE - 20A, 125V - MOUNTING HEIGHT 18" UNLESS NOTED OTHERWISE
(Symbol)	JUNCTION BOX - SIZE PER NEC OR AS INDICATED
(Symbol)	ENCLOSED CIRCUIT BREAKERS
(Symbol)	PANELBOARD - TYPE AS NOTED - MOUNTING HEIGHT - 4'-6" TO TOP
(Symbol)	CONDUIT - IN OR ON CEILING OR WALLS
(Symbol)	CONDUIT - IN OR UNDER FLOOR / GROUND
(Symbol)	HOMERUN TO PANEL - NUMBER OF APPROX. INDICATES NUMBER OF CIRCUITS & NUMBER OF CIRCLES INDICATES NUMBER OF #12 CONDUCTORS - WHERE NO CIRCLES APPEAR, 2 #12 CONDUCTORS ARE IMPLIED
(Symbol)	CONDUIT - TURNING UP OR DOWN AS REQUIRED
(Symbol)	CONDUIT - TERMINATED IN BUSHING
(Symbol)	GENERATOR - SIZE & TYPE AS NOTED
(Symbol)	EXPLOSION PROOF
(Symbol)	WEATHER PROOF
(Symbol)	SWITCH - SINGLE POLE - MOUNTING HEIGHT 4'-0"
(Symbol)	SWITCH - WITH PILOT LIGHT, WEATHER PROOF - MOUNTING HEIGHT 4'-0"
(Symbol)	DEVOTED INTERMEDIATE METAL CONDUIT
(Symbol)	DEVOTED RIGID STEEL CONDUIT
(Symbol)	THERMOSTAT
(Symbol)	LIMIT SWITCH
(Symbol)	MAGNETIC STARTERS

**PANEL A**

208/120 VOLTS, 3 PHASE, 4 WIRE, 100 A. M.D. SURFACE MOUNTED

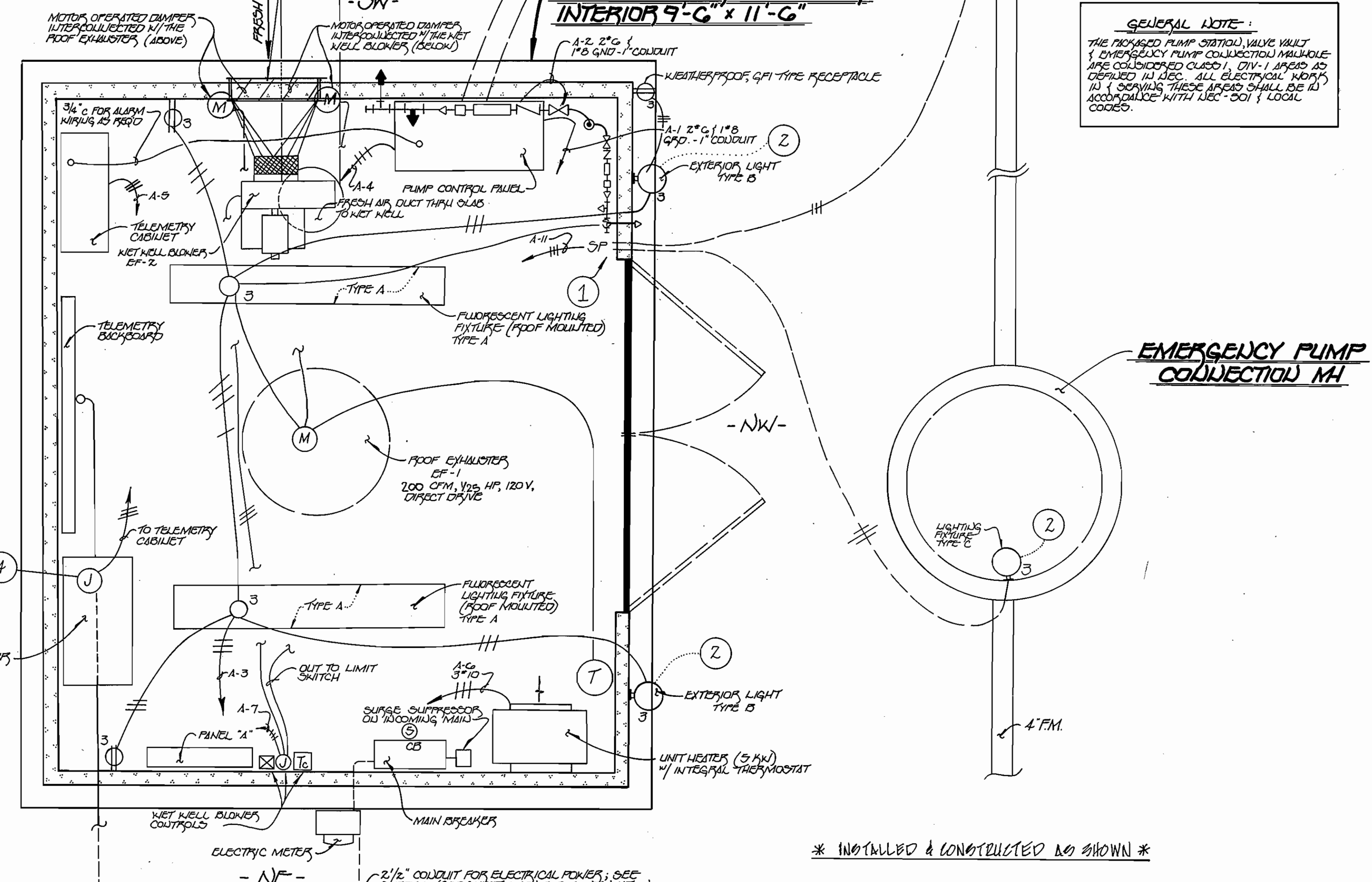
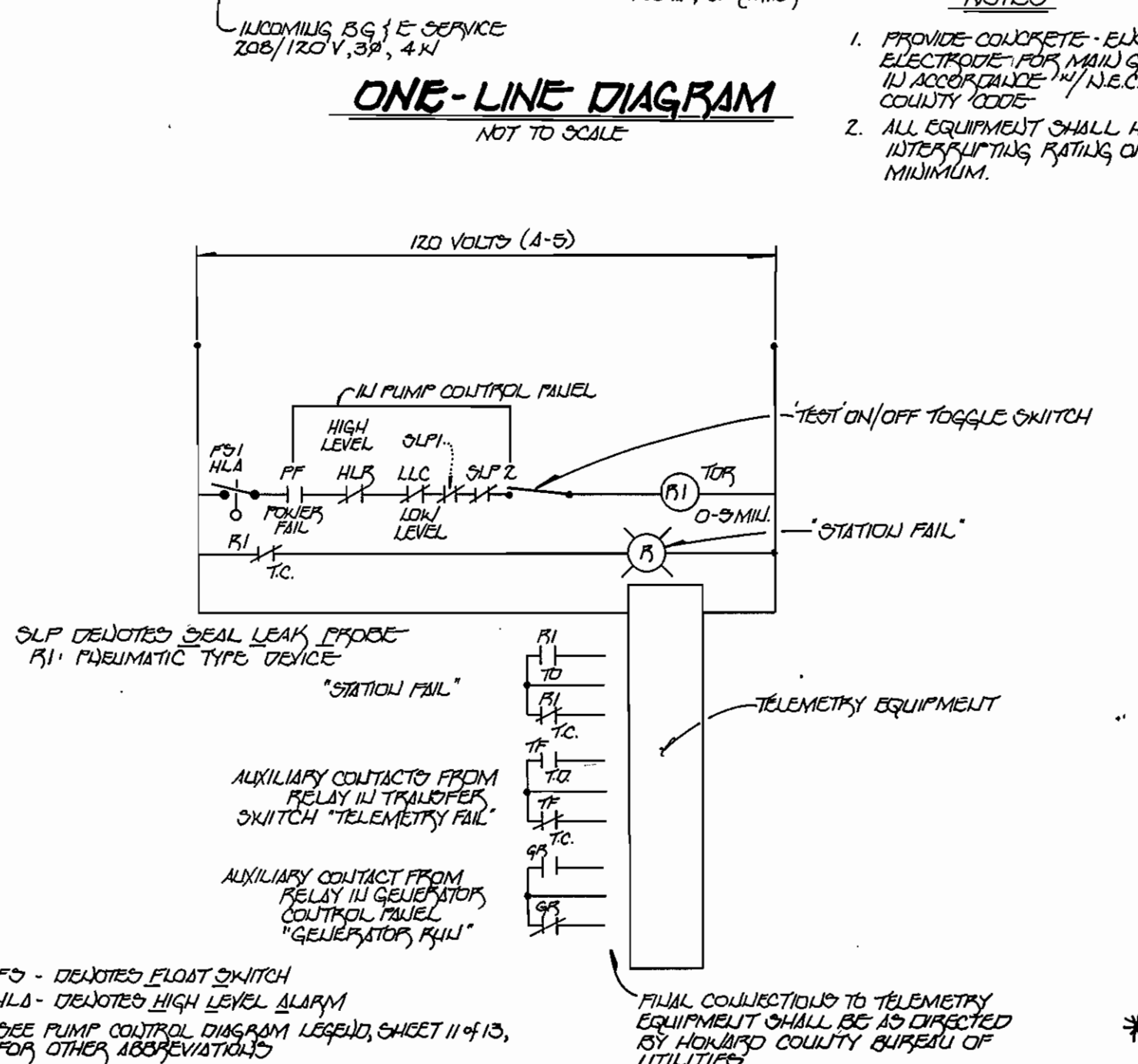
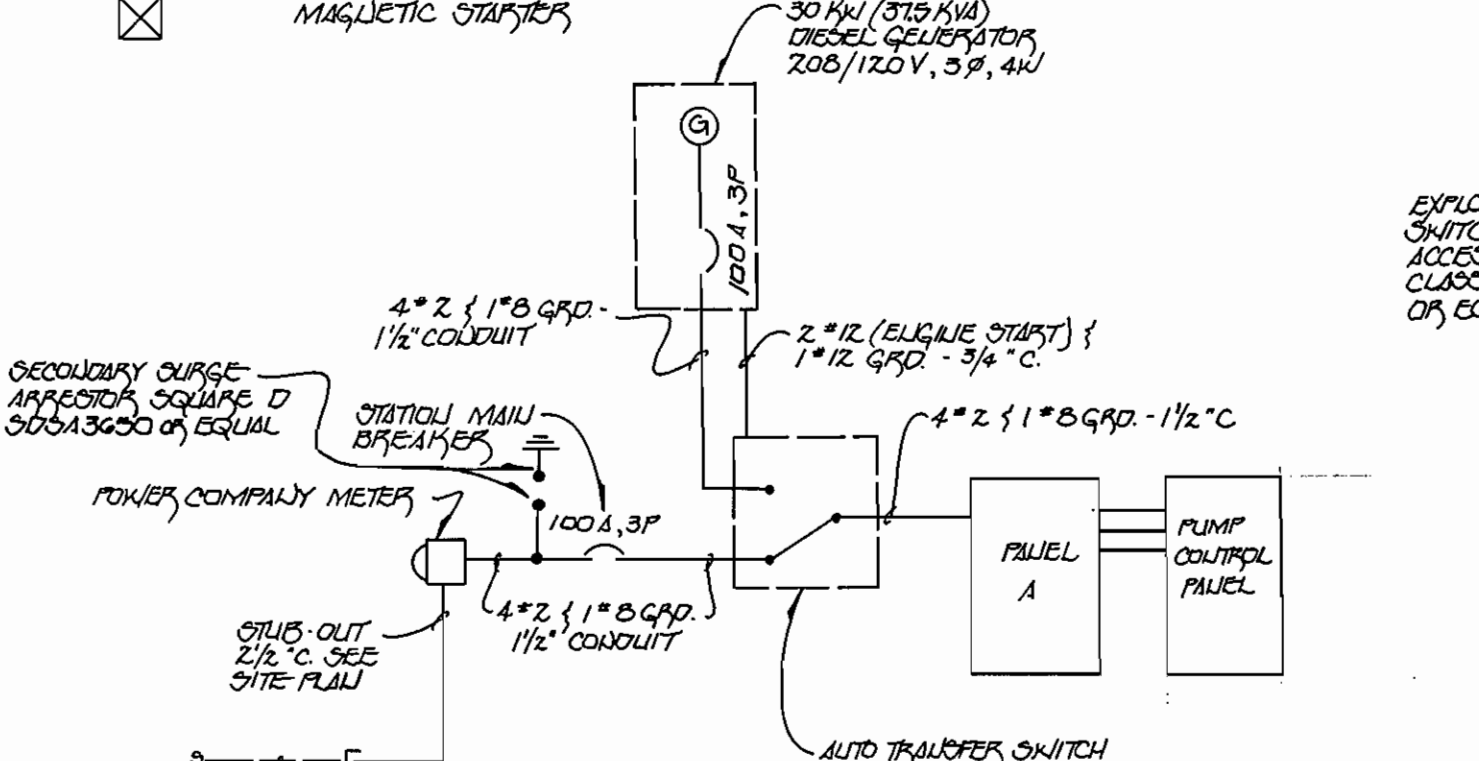
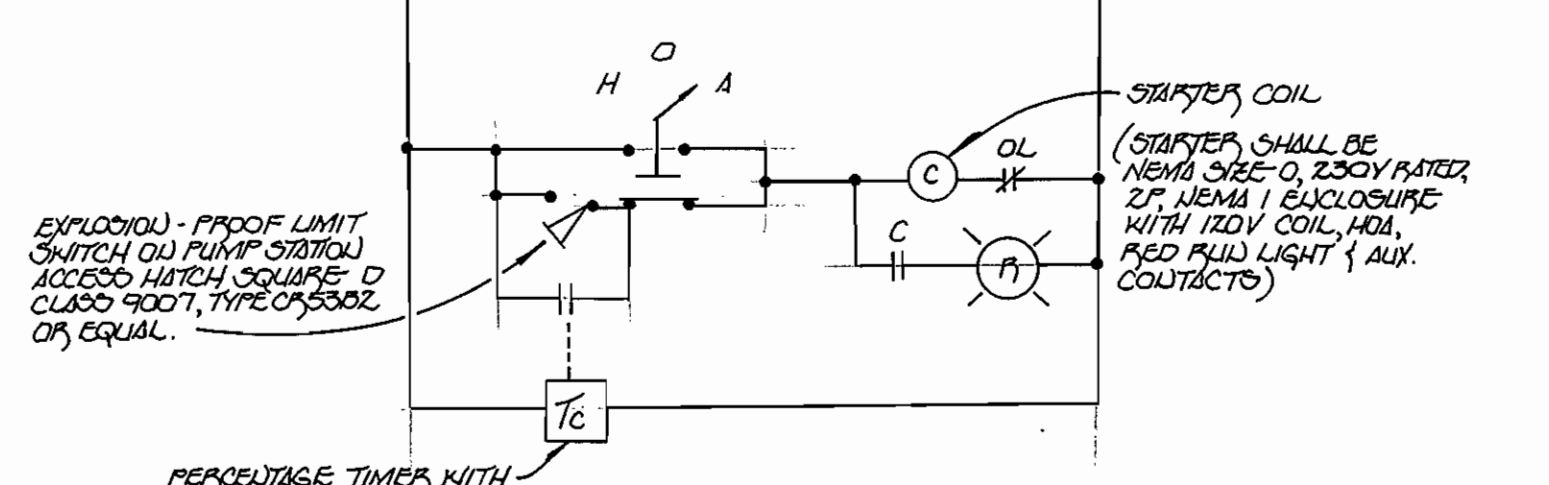
QTY	DESCRIPTION	BRK/	LOAD (KVA)
1	PUMP 1 (10 HP)	60 A, 3P	11.5
2	PUMP 2 (10 HP)	60 A, 3P	11.5
3	STATION LTRG & PRES.	20 A, 1P	1.0
4	PUMP CONTROL PANEL	20 A, 1P	0.1
5	TELEMETRY CABINET	20 A, 1P	0.1
6	UNIT HEATER	30 A, 2P	9.0
7	NET WELL BLOWER	20 A, 1P	1.2
8	JACKET WATER HEATER	20 A, 1P	1.6
9	BATTERY CHARGER	20 A, 1P	0.1
10	HIGH LEVEL ALARM	20 A, 1P	0.1
11	VAULT LIGHTS	20 A, 1P	0.5
12	GRATE	20 A, 1P	-
13	GRATE	20 A, 1P	-
14-18	SPACE & BUS	-, 1P	-

TOTAL COLLECTED 32.7 KVA (90 AMPS @ 208V, 3PH)

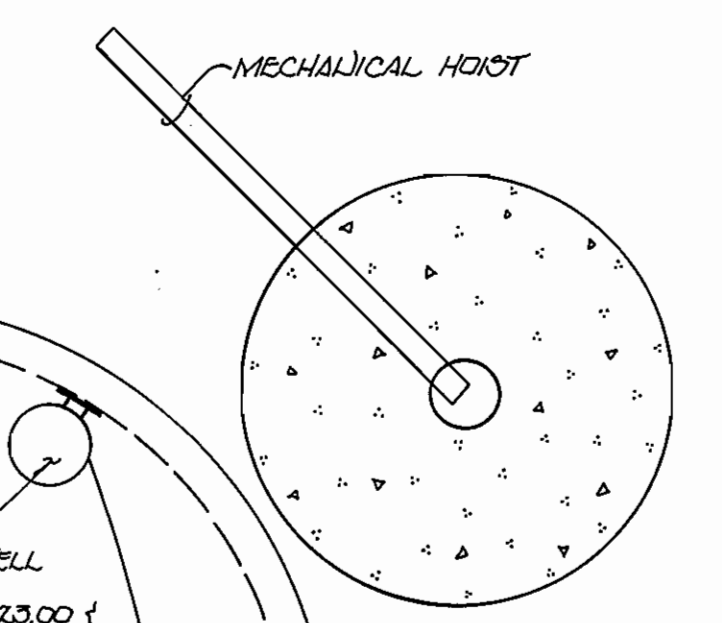
**LIGHTING FIXTURES**

TYPE	DESCRIPTION	MFR. OR EQUAL
A	SWIRE MTD ENCLOSED & GASETHER W/PAINTED PAINT (PLUMIC) 2-F40 CW LAMP & LOW TEMP BALLAST, 120 VOLTS	HUBBELL ECOLORA-3P05-L1
B	VAULT PRECAST SECURITY LIGHT 4" DIE PIECE DIE-CAST HOLDING, POLYCARBONATE COVER (UL94) APPROX. TO MATT W/2 LAMP (1 MFR. SPECIFIED), 120 VOLTS	HUBBELL FWL-00700-118-PR1-1
C	WALL MOUNTED EXPLOSION PROOF HOLLOW WITH GLOBE, GUARD & 150 WATT LAMP, 120 VOLTS	HUBBELL HLE-840250

**120 VOLTS FROM PANEL A**



**PACKAGED PUMPING STATION VALVE VAULT**



**GENERAL NOTE:**  
THE PACKAGED PUMP STATION VALVE VAULT & EMERGENCY PUMP COLLECTION MAIN ARE CONSIDERED CLASS I, DIV-1 AREAS AS DEPICTED IN NEC. ALL ELECTRICAL WORK IN & OUTSIDE THESE AREAS SHALL BE IN ACCORDANCE WITH NEC-501 & LOCAL CODES.

**EMERGENCY PUMP COLLECTION MAIN**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Shaw* 5/25/85  
DIRECTOR OF PUBLIC WORKS DATE

*Robert M. Beaman* 5-23-85  
CHIEF, BUREAU OF UTILITIES DATE

*John S. Brown* 5/25/85  
CHIEF, BUREAU OF ENGINEERING DATE

*William M. Stiles*  
CHIEF, LAND DEVELOPMENT DIVISION DATE

**FISHER, COLLINS & CARTER, INC.**

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2855

TERRELL A. FISHER

DES: M.J.M.	DATE:
DRWN: M.J.M./J.M.M.	BY NO.
CHK: P.W.K.	REVISION
DATE:	DATE

**ELECTRICAL PLAN & DETAILS**

600' SCALE MAP NO. 46 BLOCK NO. 11

**THE WILLOWS OF ROCKY GORGE**  
LOTS 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 13 OF 13

3374 WS/13A THE WILLOWS OF ROCKY GORGE (LOTS 1-95)

**As-BUILT LOCATION WATER VALVES FOR WILLOWS AT ROCKY GORGE**

LOCATIONS	FROM	TO	DIST.
M.L. 8" VALVE STA. 0+02 WILLOW WISPY CT.	BY A.R. MH	8" VALVE BOX	28'
" " " " " " " " " "	SAN. MH-201	" " " "	30'
F.H. 6" VALVE F.H.T. STA. 1+42 WILLOW WISPY CT.	F.H. #1	" " " "	16'
" " " " " " " " " "	SAN. MH-111	" " " "	"
M.L. 4" " STA. 0+03 30' UTILITY EASEMENT	" " 109	4" " " "	15'
" " " " " " " " " "	" " 111	" " " "	142'
" 8" " " 6+12 WILLOW WISPY CT.	" " 107	8" " " "	19'
" " " " " " " " " "	F.H. #2	" " " "	41'
" " " " " " " " " "	SAN. MH-107	" " " "	13'
" " " " " " " " " "	F.H. #2	" " " "	49'
" " " " " " " " " "	SAN. MH-107	" " " "	19'
" " " " " " " " " "	F.H. #2	" " " "	44'
F.H. 6" VALVE F.H.T. STA. 0+49 WISPY BRANCH CT.	" " 107	6" " " "	63'
" " " " " " " " " "	SAN. MH-107	" " " "	63'
" " " " " " " " " "	F.H. #3	" " " "	41'
" " " " " " " " " "	SAN. MH-113	" " " "	41'
M.L. 4" VALVE STA. 0+03 20' UTILITY EASEMENT	F.H. #4	4" " " "	17'
" " " " " " " " " "	SAN. MH-106	" " " "	20'
F.H. 6" " F.H.T. STA. 8+24 WILLOW WISPY CT.	F.H. #4	6" " " "	16'
" " " " " " " " " "	SAN. MH-106	" " " "	25'
" " " " " " " " " "	F.H. #5	" " " "	23'
" " " " " " " " " "	SAN. MH-103	" " " "	28'
8" SAN M.L. 8" VALVE	" " 101	8" " " "	22'
" MH-100 TO R.S. VAULT	" " 100	" " " "	2'
4" F.M. M.L. 4" VALVE	" " 101	4" " " "	10'
" STA. 0+14	" " 100	" " " "	22'

**As-BUILT LOCATION FOR WATER HOUSE CONNECTIONS AT WILLOW AT ROCKY GORGE**

LOT#	FROM	TO	DIST.	LOT#	FROM	TO	DIST.
1	MH-111	CURB STOP BOX	50'	38	F.H. #2	CURB STOP BOX	58'
	F.H. #1	" " " "	51'		MH-107	" " " "	20'
2	MH-111	" " " "	70'	38	F.H. #2	" " " "	50'
	F.H. #1	" " " "	71'		MH-107	" " " "	23'
3	MH-111	" " " "	79'	39	" " 108	" " " "	123'
	F.H. #1	" " " "	77'		" " 108	" " " "	58'
4	MH-109	" " " "	77'	39	" " 109	" " " "	48'
	" 108	" " " "	88'		" 109	" " " "	111'
5	" 109	" " " "	83'	39	" 108	" " " "	50'
	" 108	" " " "	82'		" 109	" " " "	108'
6	F.H. #2	" " " "	78'	40	6" DRAIN VALVE COVER	" " " "	38'
	MH-112	" " " "	106'		MH-119	" " " "	18'
7	F.H. #2	" " " "	84'	41	6" DRAIN VALVE COVER	" " " "	36'
	MH-112	" " " "	102'		MH-119	" " " "	38'
8	F.H. #3	" " " "	33'	42	6" DRAIN VALVE COVER	" " " "	25'
	MH-113	" " " "	89'		MH-119	" " " "	31'
9	F.H. #3	" " " "	38'	43	F.H. #4	" " " "	77'
	MH-113	" " " "	38'		MH-111	" " " "	60'
10	" " " "	" " " "	42'	44	F.H. #1	" " " "	58'
	F.H. #3	" " " "	84'		MH-111	" " " "	40'
11	" " " "	" " " "	85'				
	MH-112	" " " "	30'				
12	F.H. #3	" " " "	20'				
	MH-112	" " " "	28'				
13	F.H. #2	" " " "	53'				
	MH-107	" " " "	23'				
14	C.S. LOT 10	" " " "	10'				
	F.H. #4	" " " "	194'				
15	C.S. LOT 16	" " " "	10'				
	F.H. #4	" " " "	193'				
16	C.S. LOT 10	" " " "	10'				
	F.H. #4	" " " "	185'				
17	" " " "	" " " "	45'				
	MH-105	" " " "	48'				
18	" " " "	" " " "	110'				
	" 104	" " " "	"				
19	" " " "	" " " "	105'				
	" 105	" " " "	106'				
20	OPEN GRILLE	" " " "	—				
21	MH-104	" " " "	58'				
	F.H. #5	" " " "	73'				
22	" " " "	" " " "	60'				
	MH-103	" " " "	61'				
23	F.H. #5	" " " "	65'				
	MH-103	" " " "	63'				
24	F.H. #5	" " " "	56'				
	MH-103	" " " "	61'				
25	F.H. #5	" " " "	58'				
	MH-103	" " " "	46'				
P.S. 26	F.H. #5	" " " "	51'				
	MH-103	" " " "	44'				
28	F.H. #5	" " " "	58'				
	MH-104	" " " "	49'				
29	" " " "	" " " "	41'				
	C.S. LOT 28	" " " "	82'				
30	MH-104	" " " "	58'				
	C.S. LOT 18	" " " "	78'				
31	MH-105	" " " "	29'				
	F.H. #4	" " " "	118'				
32	MH-105	" " " "	24'				
	F.H. #4	" " " "	110'				
33	" " " "	" " " "	54'				
	MH-106	" " " "	17'				
34	F.H. #4	" " " "	57'				
	MH-106	" " " "	20'				

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS \_\_\_\_\_ DATE \_\_\_\_\_ CHIEF, BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

DES:			
DRN:			
CHK:			
DATE:	BY	NO.	REVISION

WATER AS-BUILT INFORMATION

600' SCALE MAP NO. \_\_\_\_\_ BLOCK NO. \_\_\_\_\_

THE WILLOWS OF ROCKY GORGE  
LOT NOS. 1-45  
CONTRACT NO. 24-3374-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 12A OF 12