

**GENERAL NOTES:**

**PART I**

- 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 SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION AND BACKFILL.
- FOR DETAILS NOT SHOWN ON DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
- FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

- STATE HIGHWAY ADMINISTRATION: .....	531-5533
- BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND ELECTRIC DISTRIBUTION (CUSTOMER SERVICE): .....	685-0123
- BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND GAS DISTRIBUTION (CUSTOMER SERVICE): .....	685-0123
- ENGINEERING "DAMAGE CONTROL": .....	234-5621
- "MISS UTILITY": .....	(1) 559-0100
- CHESAPEAKE AND POTOMAC (C & P) TELEPHONE COMPANY: .....	725-9976
- AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIV.: ..	393-3553
- COLONIAL PIPELINE COMPANY: .....	781-4641
- BUREAU OF UTILITIES HOWARD COUNTY: .....	992-2366

- TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION AND BACKFILL.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.

**PART II**

- ALL WATER MAINS TO BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
- TOP 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.
- BLOCK ALL FITTINGS WITH CONCRETE.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT TO BE COMPACTED IN ACCORDANCE WITH SECT. 10.03 & 10.08 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.

**PART III**

- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL S1.45. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

TYPE OF BUILDING: .....	N/A
NO. OF LOTS .....	N/A
NUMBER OF WATERHOUSE CONN. ....	N/A
NUMBER OF SEWERHOUSE CONN. ....	N/A
DRAINAGE AREA LITTLE PATUXENT .....	

WATER & SEWER CODE	
SEWER CODE	4500000
WATER CODE	N/A

QUANTITIES		
ITEM	UNIT	AS BUILT
MANHOLES (PRECAST)	NUMBER	14
15" SAN. (V.C.P.X.)	L.F.	1617
18" SAN. (V.C.P.X.)	L.F.	2274
WATERTIGHT FRAME & COVER	NUMBER	1

NOTE: THESE PLANS WERE DEVELOPED FROM DESIGN INFORMATION PROVIDED BY THE GENERAL ELECTRIC CO. HORIZONTAL AND VERTICAL LOCATIONS WERE VERIFIED BY FIELD SURVEY AND MATERIAL TYPES DETERMINED BY FIELD INSPECTION OF SYSTEM.  
SEDIMENT CONTROL NOTES APPLY ONLY IF EXCAVATION IS ANTICIPATED.

**SEDIMENT CONTROL NOTES**

- FOR SEDIMENT CONTROL FOR THIS CONTRACT SEE THE APPROVED ROAD CONSTRUCTION PLANS FOR FILE.
- MATERIAL FROM TRENCH EXCAVATION TO BE PLACED ON UPHILL SIDE OF TRENCH.
- CONTRACTOR TO BACKFILL, COMPACT AND STABILIZE IMMEDIATELY AFTER INSTALLATION OF PIPE. NO TRENCHES WILL BE LEFT OPEN AT THE END OF EACH DAY, EXCEPT THAT PORTION WHERE WORK HAS STOPPED.
- ANY SEDIMENT CONTROL FACILITIES ENCOUNTERED DURING PIPE CONSTRUCTION TO BE RETURNED TO ORIGINAL CONDITION IMMEDIATELY UPON COMPLETION OF THAT PORTION OF WORK.
- SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS.

**VICINITY MAP**  
SCALE: 1" = 600'

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	18" SANITARY SEWER PLAN AND PROFILE
3	18" SANITARY SEWER PLAN AND PROFILE
4	15" SANITARY SEWER PLAN AND PROFILE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
HOWARD S.C.D.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Signature: \_\_\_\_\_ DATE: 1-21-86  
DIRECTOR OF PUBLIC WORKS  
Signature: \_\_\_\_\_ DATE: 1-21-86  
CHIEF BUREAU OF UTILITIES

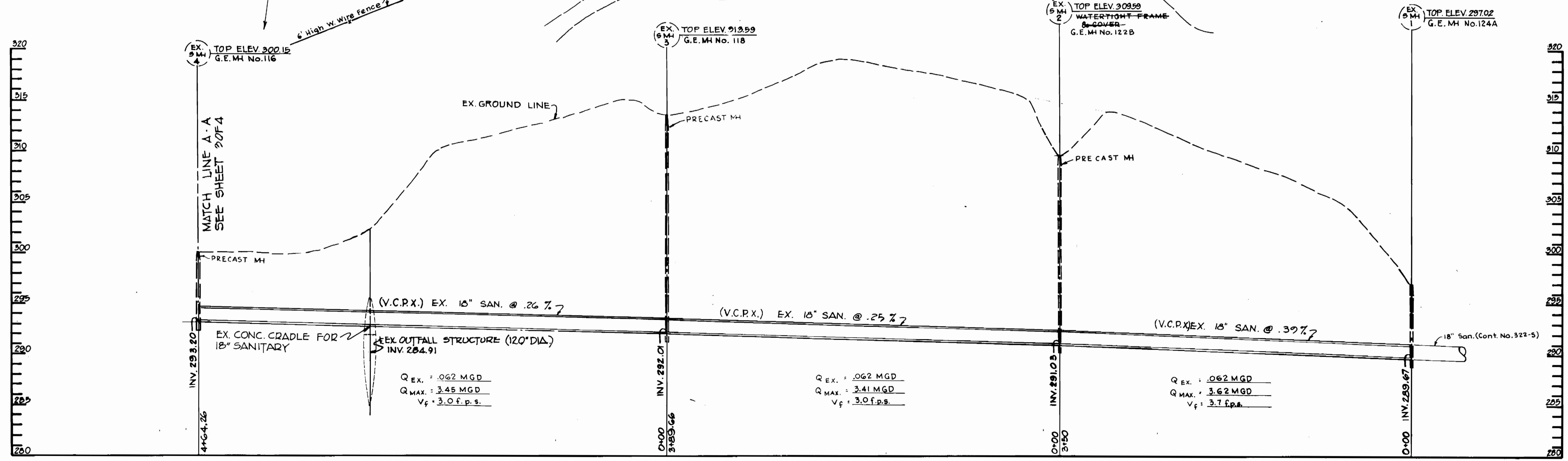
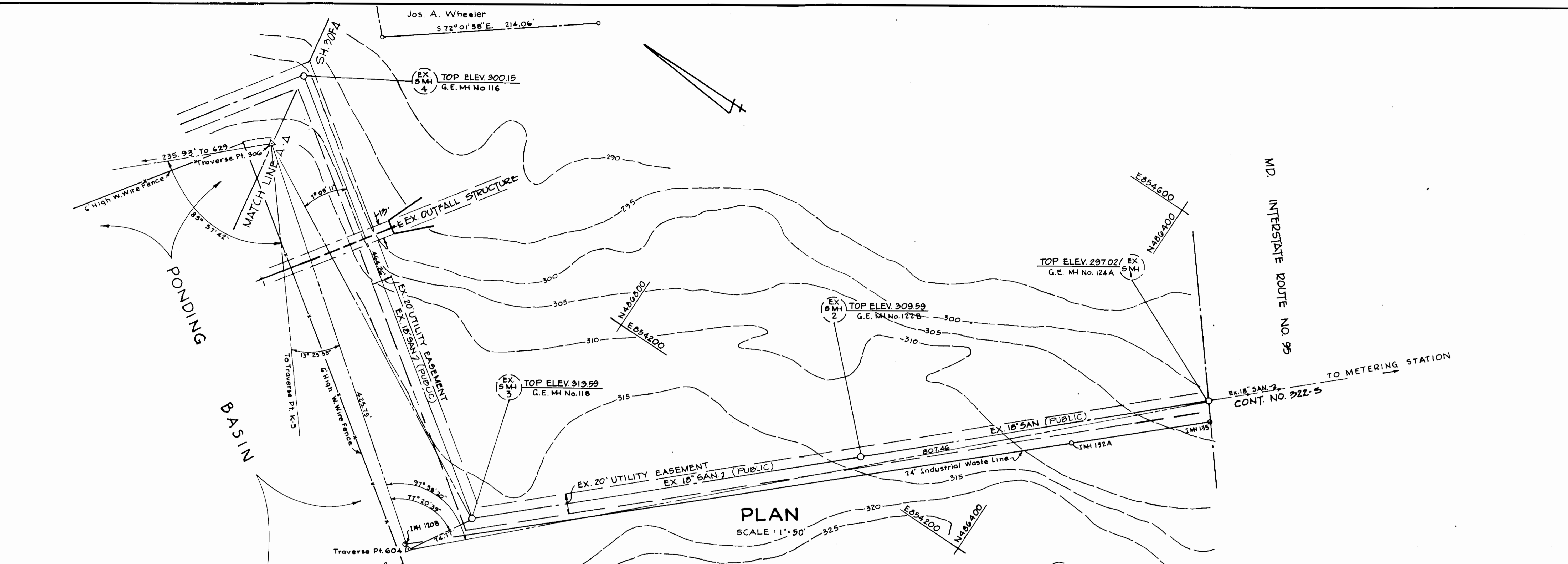
CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS PLANNERS  
32 WEST ROAD  
TOWSON, MARYLAND 21204  
301-823-8070  
Signature: \_\_\_\_\_ DATE: 1-21-86  
SPECIAL AGENT

DES: EEI  
DRN: JAG  
CHK: GRK  
DATE: 7/85  
BY: \_\_\_\_\_

EXISTING 15" & 18" SANITARY SEWER AS-BUILTS  
J.H.C. 1 As per Comments in letter dated 9/12/85 from Dept. of Public Works of Howard Co. 10/2/85  
REVISION DATE: 10/2/85

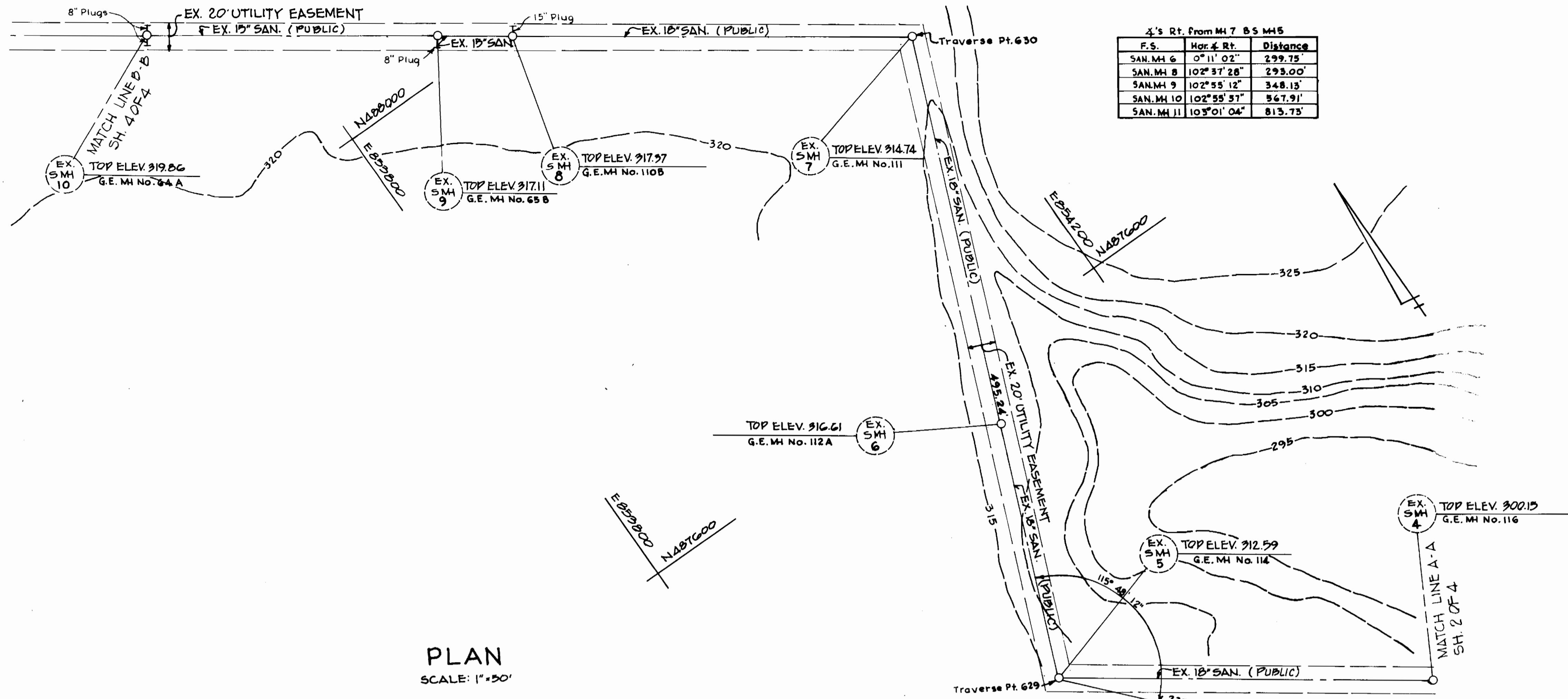
APPLIANCE PARK-EAST  
GENERAL ELECTRIC CO.  
CONTRACT NO. 20-1397-D  
PART OF PARCEL 587  
6TH ELECTION DISTRICT  
TAX MAPS 36, 42 & 43  
HOWARD COUNTY, MD

AS-BUILT  
10/16/86  
SCALE AS SHOWN  
SHEET 1 OF 4



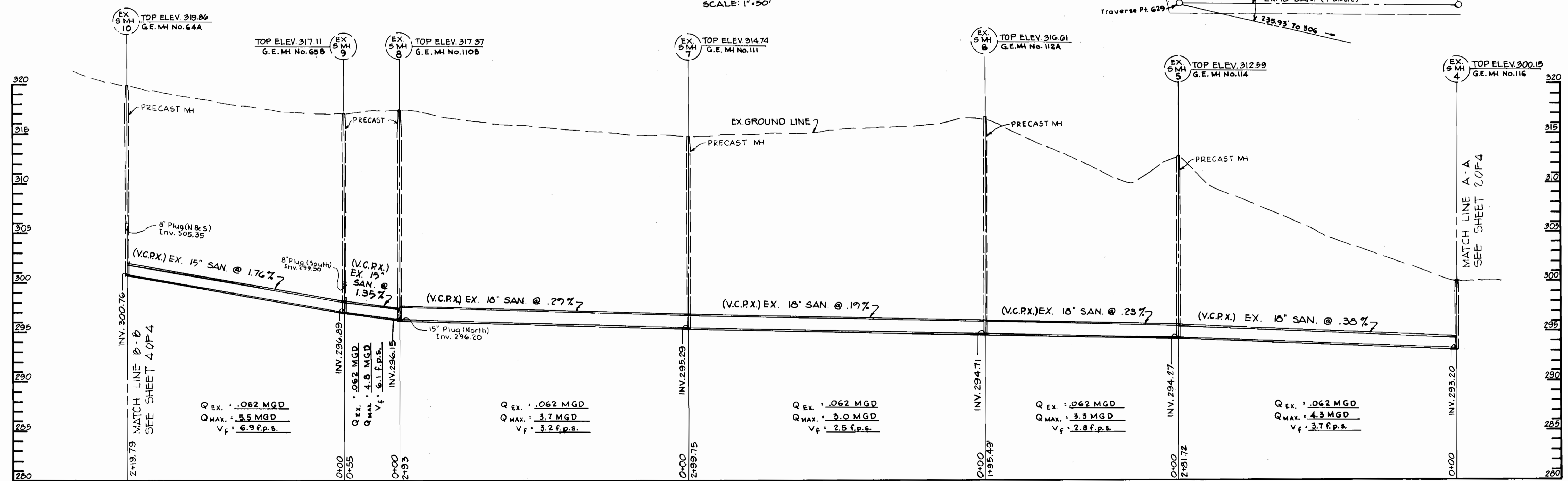
**PROFILE**  
SCALE: HORZ. 1"=50'  
VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>Robert M. Berman</i> 1-21-86 Chief Bureau of Utilities: <i>Robert M. Berman</i> 1-21-86		CENTURY ENGINEERING, INC. CONSULTING ENGINEERS PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204 301-823-8070 President: <i>Robert R. Klar</i>		DES: E.E.I. DRN: J.A.G. CHK: G.R.K. J.H.C. 1 DATE: 7/85 BY NO. REVISION DATE		EXISTING 15" & 18" SANITARY SEWER AS-BUILTS 600 SCALE MAP NO. 4-2 BLOCK NO.		APPLIANCE PARK-EAST GENERAL ELECTRIC CO. CONTRACT NO. 20-1397-D PART OF PARCEL 587 6TH ELECTION DISTRICT TAX MAPS 36, 42 & 43 HOWARD COUNTY, MD.		SCALE AS SHOWN SHEET 2 OF 4
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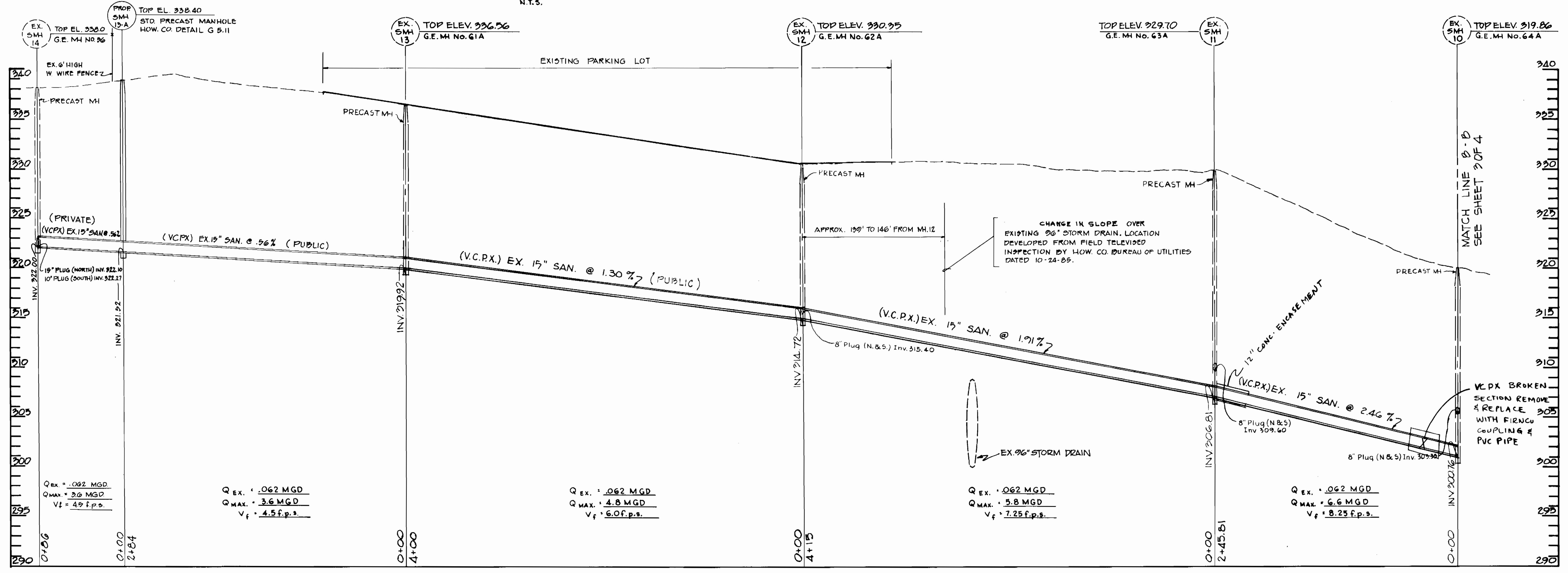
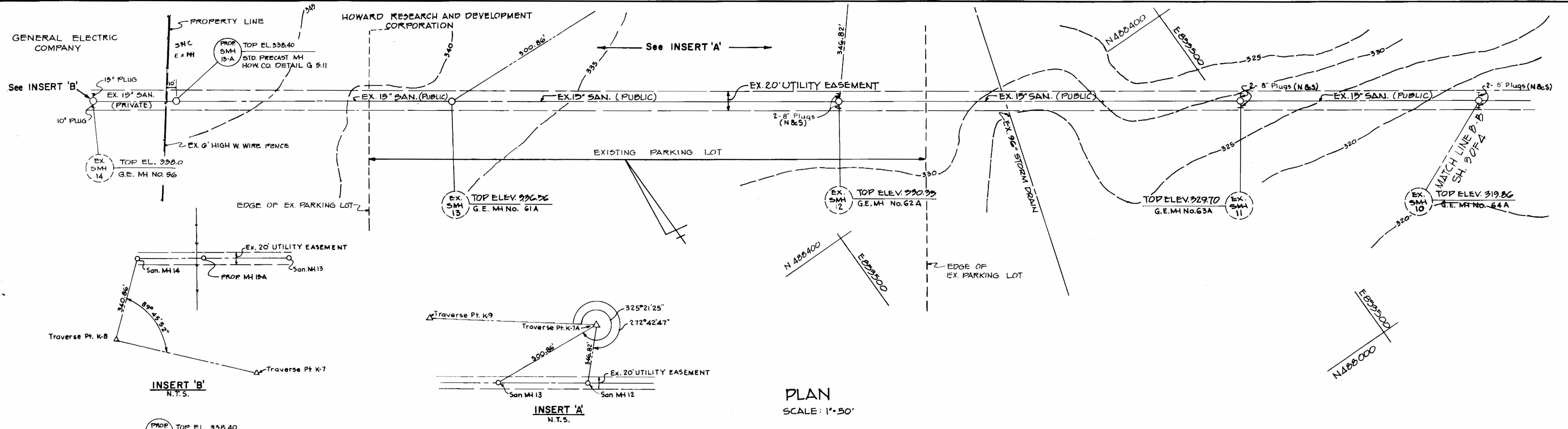
4's Rt. from M 7 & S M 6		
F.S.	Hor. & Rt.	Distance
SAN. M 6	0° 11' 02"	299.75'
SAN. M 8	102° 37' 28"	293.00'
SAN. M 9	102° 55' 12"	348.13'
SAN. M 10	102° 55' 37"	367.91'
SAN. M 11	103° 01' 04"	813.73'

PLAN  
SCALE: 1"=50'



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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-21-86 CHIEF BUREAU OF UTILITIES	CENTURY ENGINEERING, INC. CONSULTING ENGINEERS PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204 301-823-8070		DES: E.E.I.		EXISTING 15" & 18" SANITARY SEWER AS-BUILTS	APPLIANCE PARK-EAST GENERAL ELECTRIC CO. CONTRACT NO. 20-1397-D PART OF PARCEL 587 6TH ELECTION DISTRICT TAX MAPS 36, 42 & 43 HOWARD COUNTY, MD.	SCALE AS SHOWN
			DRN: J.A.G.				AS per Comments in letter dated 9/12/85 from Dept. of Public Works of Howard Co. 10/2/85
			CHK: G.R.K.		DATE: 7/85	600' SCALE MAP NO. 42	
			J.H.C. 1		BY NO.	BLOCK NO.	



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

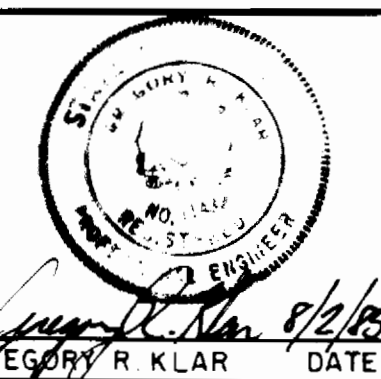
*John F. Newmyer* 1-21-86  
DIRECTOR OF PUBLIC WORKS DATE

*Robert B. ...* 1-21-86  
CHIEF BUREAU OF UTILITIES DATE

CENTURY ENGINEERING, INC.  
CONSULTING ENGINEERS PLANNERS

32 WEST ROAD  
TOWSON, MARYLAND 21204

301-823-8070



DES: EEL

DRN: JAG

CHK: GRK

DATE: 7/85

J.H.C. 1  
BY NO. REVISION

As per Comments in letter dated 9/12/85 from Dept. of Public Works of Howard Co. 10/2/85

EXISTING 15" & 18"  
SANITARY SEWER  
AS-BUILTS

DATE: 600 SCALE MAP NO. 42 BLOCK NO.

APPLIANCE PARK-EAST  
GENERAL ELECTRIC CO.  
CONTRACT NO. 20-1397-D

PART OF PARCEL 587  
6TH ELECTION DISTRICT

TAX MAPS 36, 42 & 43  
HOWARD COUNTY, MD.

SCALE

SHEET  
4 OF 4