

**GENERAL NOTES**

**PART "I"**

- LOCATIONS OF EXISTING MAINS, AS SHOWN, ARE APPROXIMATE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES, AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE DESIGN ENGINEER, COST TO BE AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON DECEMBER 28, 2004, BY SURVEY'S, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:

THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91" AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATION No.0080\*, AND STATION No 421A\*.

- ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS IS STANDARD HOWARD COUNTY SURVEY CONTROL, BRASS DISC SET ON CONCRETE CONTROL No. 0080\* ELEVATION = 282.389, AND CONTROL No. 421A\* ELEVATION = 311.988.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM, OR TUNNEL POLE, AS REQUIRED, UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL IV, STANDARD SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT & T	1 - 800 - 252 - 1133
BGE (CONSTRUCTION SERVICES)	410 - 850 - 4620
BGE (EMERGENCY)	410 - 685 - 1400
BUREAU OF UTILITIES	410 - 313 - 4900
COLONIAL PIPELINE COMPANY	410 - 795 - 1390
MISS UTILITY	1 - 800 - 257 - 7777
STATE HIGHWAY ADMINISTRATION	410 - 531 - 5533
VERIZON	1 - 800 - 743 - 0033 / 410 - 224 - 9210

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR, BORING/JACKING OF ANY COUNTY ROAD, FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS CONSTITUTE COMPLIANCE WITH THE REQUIREMENTS OF THE D. P. W. REQUIREMENTS PER SECTION: 18.114 (a) OF THE HOWARD COUNTY CODE.

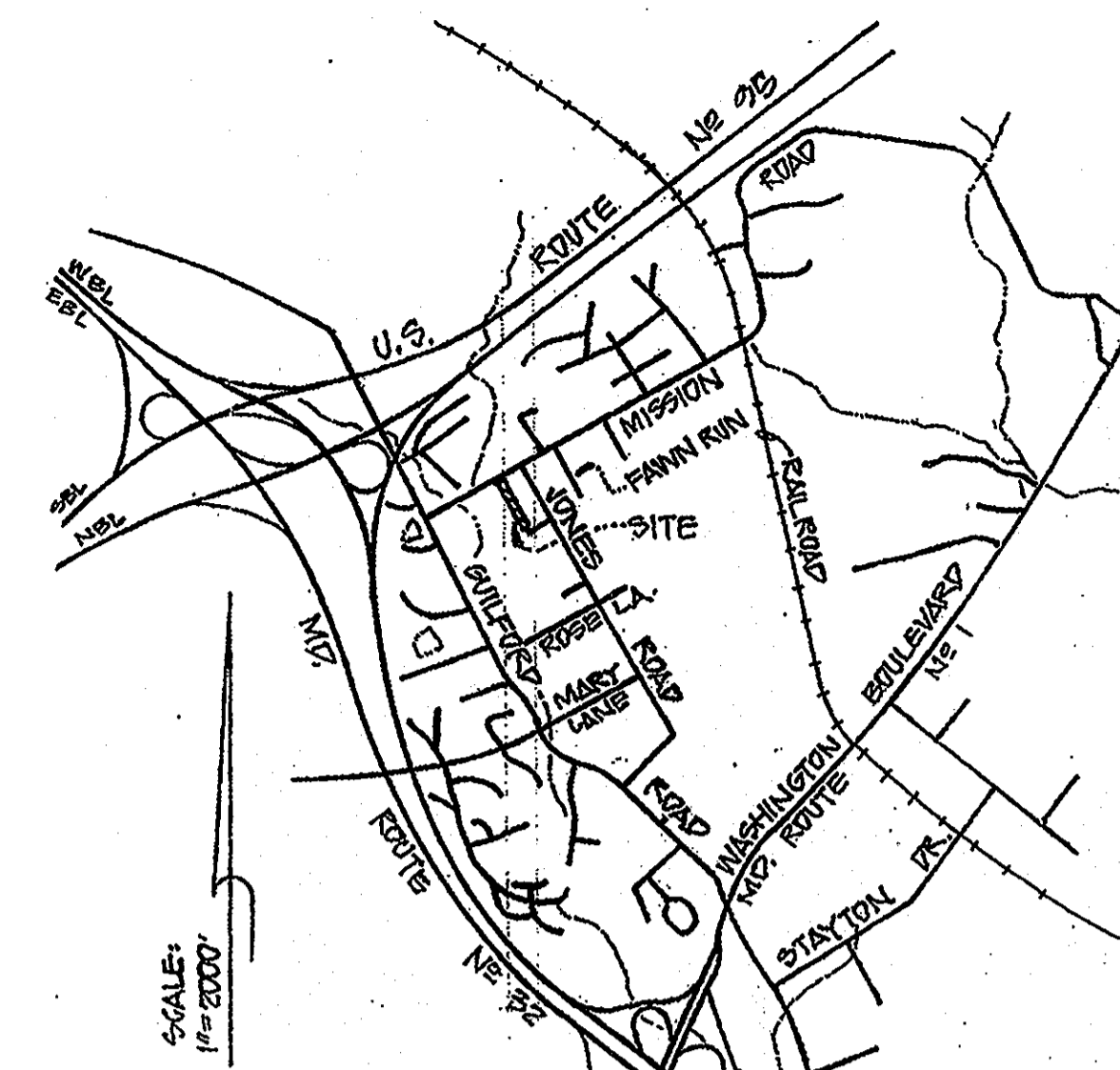
**PART "II" WATER**

- ALL WATER MAINS SHALL BE DUCTILE IRON (DIP) CLASS 54 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTING'S SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD DETAILS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

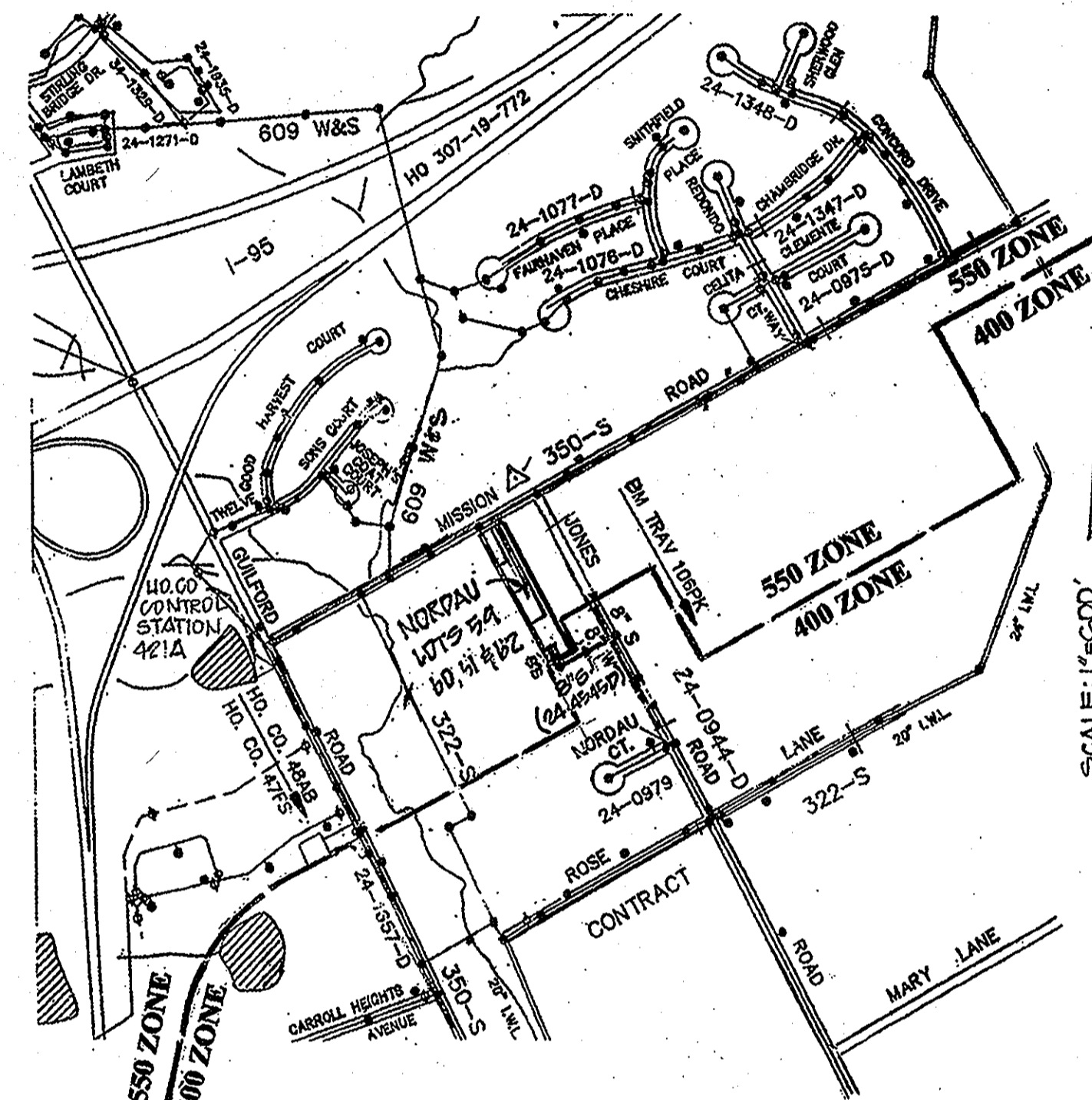
**PART "III" SEWER**

- 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.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL, G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

# NORDAU SUBDIVISION PUBLIC SEWER EXTENSION SIXTH (6) ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-4545-D



**VICINITY MAP**  
PLAN SCALE: 1" = 2000'



**LOCATION MAP**  
PLAN SCALE: 1" = 600'

**TYPE OF BUILDING:** SINGLE FAMILY  
**RESIDENTIAL**  
**No. OF LOTS/PARCELS:** 4  
**No. OF WATER HOUSE CONNECTIONS:** 4  
**No. OF SEWER HOUSE CONNECTIONS:** 4  
**SEWER SHED:** LITTLE PATUXENT  
**TEST GRADIENT:** 700

**BENCH MARKS:**

- SURVEY CONTROL:** 421A\*, ELEVATION = 311.988  
**COORDINATES:** N 543,390.415, E 1,364,912.66
- SURVEY CONTROL:** 0080\*, ELEVATION = 282.389  
**COORDINATES:** N 542,366.914, E 1,363,075.97

**SHEET INDEX**

- SHEET 1 OF 2 - PUBLIC SEWER MAIN COVER SHEET  
 SHEET 2 OF 2 - PUBLIC SEWER MAIN PLAN AND PROFILE SHEET

WATER AND SEWER PLAN IS IN ACCORDANCE WITH  
FINAL PLAT: F-07-219

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

*John C. Coen* 12/15/08  
SOIL CONSERVATION DISTRICT DATE

TEST GRADIENT = 700

APPLICANT / OWNER  
LEGEND BUILDER'S, INC.  
P.O. BOX 511  
BURTONSVILLE, MARYLAND 20782  
MICHAEL COLLINS, 301-490-3651

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  
DEAN PACKARD, LICENSE No. 16518, EXPIRATION DATE 06/10/09

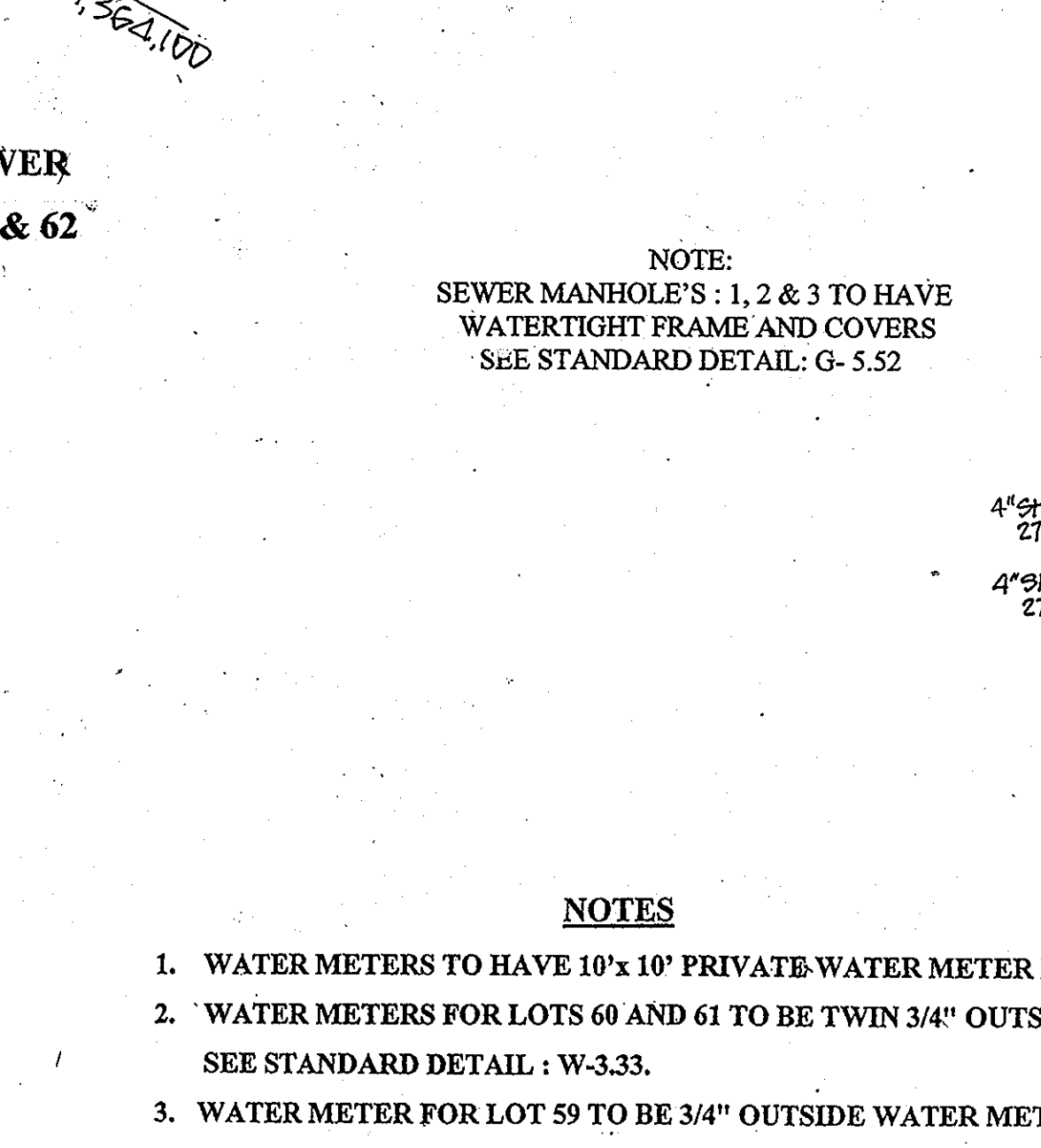
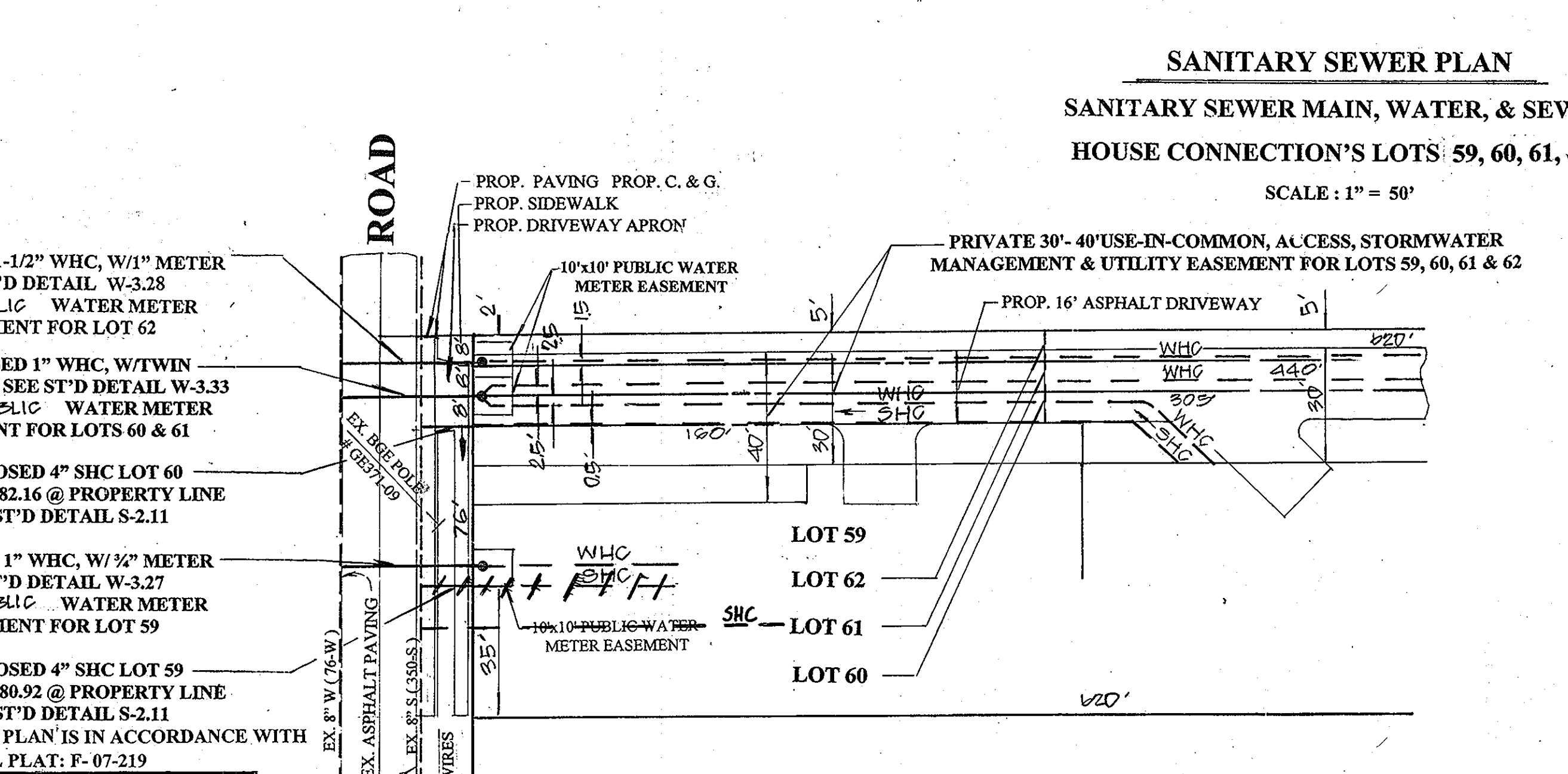
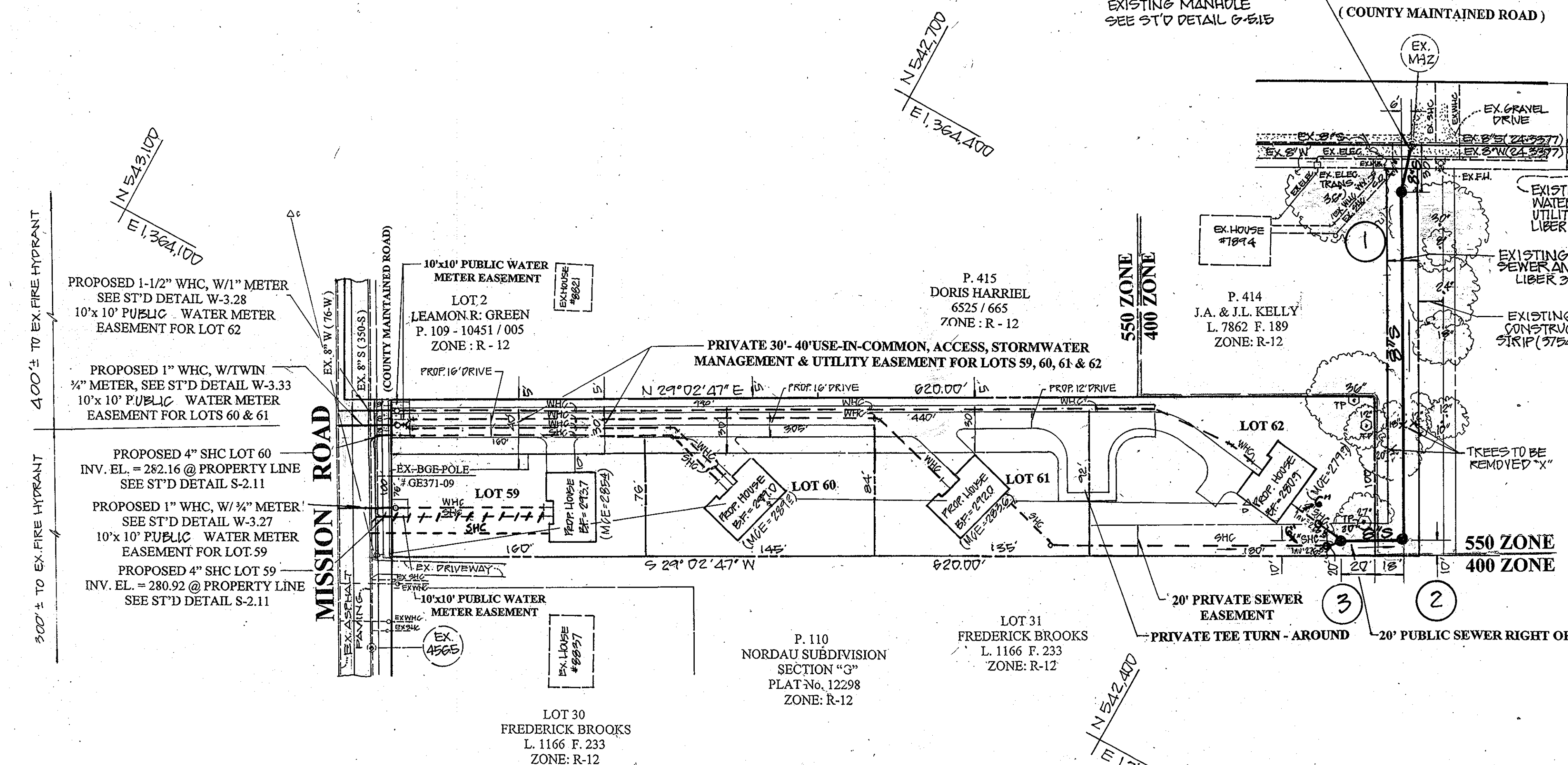
PUBLIC WATER AND SEWER MAIN QUANTITIES				
ITEMS	QUANTITIES		AS-BUILT INFORMATION	
	ESTIMATED	AS-BUILT	TYPE	MANUFACTURER/SUPPLIER
8" S	288'	288'	PVC	NORTH AMERICAN PIPE
4" SHC	50'	50'	PVC	NORTH AMERICAN PIPE
S/C/O	4	4	---	FREDERICK PRE CAST
4" SMH	3	3	---	FREDERICK PRE CAST
1" WHC	70'	70'	COPPER	J.M. EAGLE/B.R.S.
1-1/2" WHC	35'	35'	COPPER	J.M. EAGLE/B.R.S.
3/4" W.M. (S)	1	1	---	B.R.S.
3/4" W.M. (T)	1	1	---	B.R.S.
1" W.M. (S)	1	1	---	B.R.S.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>John C. Coen</i> 12/15/08 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>Chief Edwards</i> for: M.G. CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	SURVEYS, INC. SURVEYORS * ENGINEERS * LAND PLANNERS PERMIT SERVICES 950 MAIN STREET LAUREL, MARYLAND, 20707 PHONE 301-716-0561 FAX 301-716-0662  11/26/08	DESIGN: WA DRAWN: WA CHECKED: LC DATE: 10/25/08	PUBLIC SEWER MAIN PLAN AND PROFILE SHEET  600' SCALE MAP No. 42 BLOCK No. G	NORDAU SUBDIVISION CONTRACT No. 24-4545-D RESUBDIVISION OF LOT 10, SECTION "G", NORDAU SUBDIVISION RECORDED IN PLAT BOOK: HSR No. 1, FOLIO 75 SIXTH (6) ELECTION DISTRICT HOWARD COUNTY, MARYLAND 1" X MAP: 42-24 PARCEL: 396  SCALE AS SHOWN SHEET 1 OF 2
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Water House Connection As-built Location Table			
Lot Number	Address	Location Dimension 1	Location Dimension 2

Sewer House Connection As-built Location Table			
Lot Number	Address	Location Dimension 1	Location Dimension 2



**NOTES**

1. WATER METERS TO HAVE 10" x 10" PRIVATE WATER METER EASEMENTS.
2. WATER METERS FOR LOTS 60 AND 61 TO BE TWIN 3/4" OUTSIDE WATER METERS. SEE STANDARD DETAIL: W-3.33.
3. WATER METER FOR LOT 59 TO BE 3/4" OUTSIDE WATER METER. SEE STANDARD DETAIL: W-3.27.
4. WATER METER FOR LOT 62 TO BE 1" OUTSIDE WATER METER. SEE STANDARD DETAIL: W-3.28.

**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  
 DEAN PACKARD, LICENSE No. 16518, EXPIRATION DATE 06/10/09

**APPLICANT / OWNER**  
**LEGEND BUILDER'S, INC.**  
 P.O. BOX 511  
 BURTONSVILLE, MARYLAND 20782  
 MICHAEL COLLINS, 301-490-3651

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

**DEPARTMENT OF PLANNING & ZONING**  
 HOWARD COUNTY, MARYLAND

**CHIEF, BUREAU OF UTILITIES**      **CHIEF, DEVELOPMENT ENGINEERING DIVISION**

**SURVEYS, INC.**  
 SURVEYORS \* ENGINEERS \* LAND PLANNERS  
 PERMIT SERVICES  
 250 MAIN STREET  
 LAUREL, MARYLAND, 20707  
 PHONE 201-716-0581      FAX 201-716-0642

**DESIGN: WA**  
**DRAWN: WA**  
**CHECKED: LC**  
**DATE: 10/25/08**

**PUBLIC SEWER MAIN PLAN AND PROFILE SHEET**  
 600' SCALE MAP No. 42 BLOCK No. 6

**NORDAU SUBDIVISION**  
 CONTRACT No. 24-4545-D  
 LOTS 59-62      RESUBDIVISION OF LOT 10, SECTION "G",  
 NORDAU SUBDIVISION  
 RECORDED IN PLAT BOOK: HSR No. 1, FOLIO 75  
 SIXTH (6) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 TAX MAP: 42-24 PARCEL: 396

**SCALE AS SHOWN**  
**SHEET 2 OF 2**

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

SOIL CONSERVATION DISTRICT      DATE

WATER AND SEWER PLAN IS IN ACCORDANCE WITH FINAL PLAT: F-07-219

TEST GRADIENT = 700

DATE: 11/26/08

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