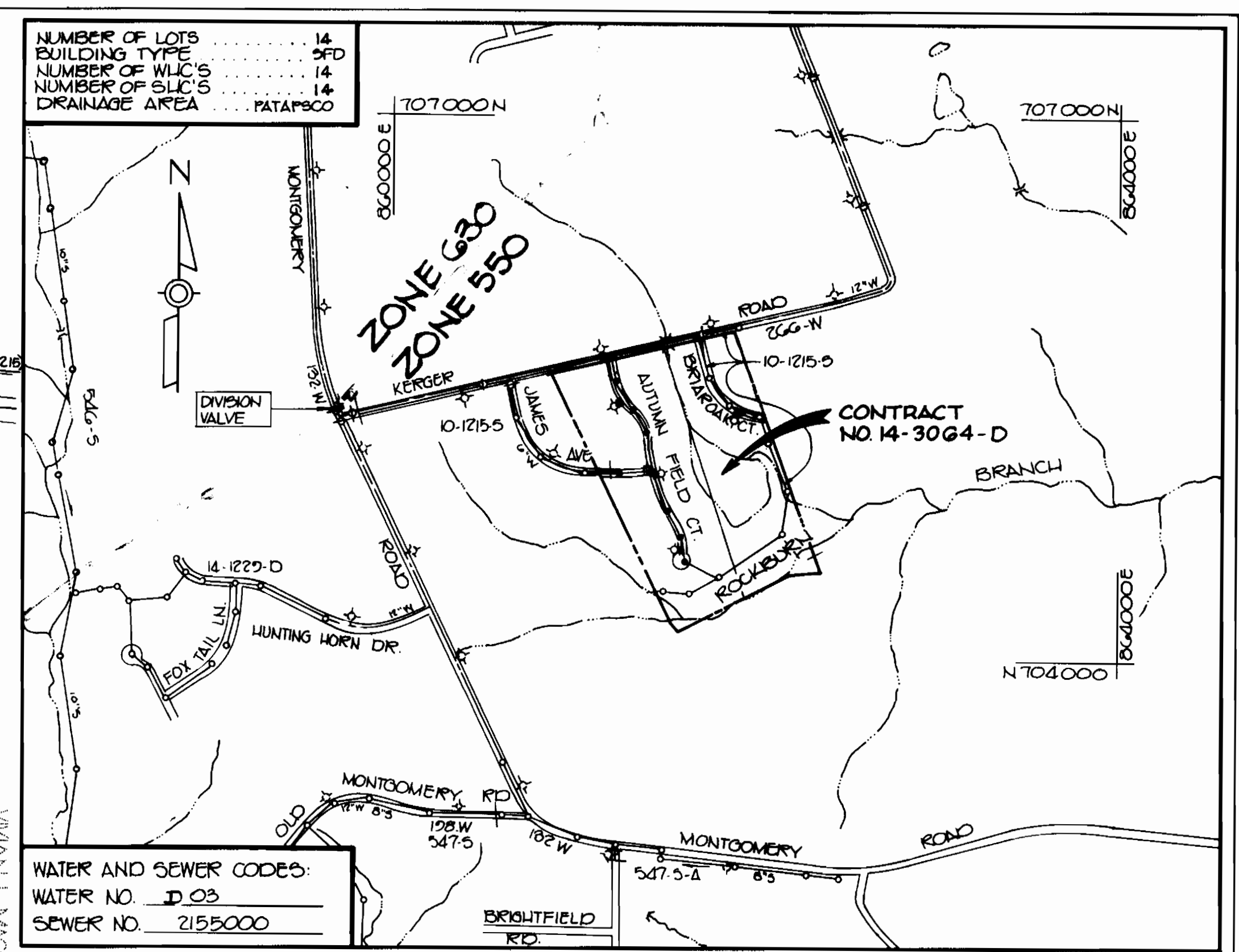




BENCH MARK DESCRIPTION
 HC BM #2144005 ELEV 419625
 3/4" REBAR 06' BELOW SURFACE 10' ± WEST
 EDGE OF ROUTE #103 AND 20' NORTH OF E.
 OF KERGER ROAD
 HC BM #2144004 ELEV 415067
 3/4" REBAR 06' BELOW SURFACE 7' ± WEST
 EDGE OF ROUTE #103 AND 140' ± SOUTH OF INTERNAL
 INTERSECTION WITH ILCHESTER ROAD



WATER AND SEWER CODES:
 WATER NO. D 03
 SEWER NO. 2153000

VICINITY MAP
 SCALE: 1" = 600'
 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.C.G. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT "O" ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6" CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS 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 MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 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. 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 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 C&P -- 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION - 531-5533
 BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES - 850-4620
 BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL - 859-9304
 BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 798-9001
 MISS UTILITY - 1-519-1911
 COLONIAL PIPELINE CO. - 795-1390
 BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 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.
- ALL WATER MAINS TO BE 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 SECTIONS 1003 AND 1004 OF THE GENERAL REQUIREMENTS FOR WATER AND SEWER.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- ALL DIP FITTINGS SHALL BE IN ACCORDANCE WITH ANWWA SPECIFICATION C155 DUCTILE IRON COMPACT FITTINGS, 5-12" FOR WATER AND OTHER LIQUIDS.
- THE SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.
- ALL SEWER MAINS SHALL BE C.S.P.X. OR C.P.X. OR P.V.C. OR A.C.P. CLASS 2400 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 65.52 VOLUME 1: WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12" ABOVE ALL SANITARY SEWER CROSSINGS.
- ALL SANITARY SEWER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12" BELOW ALL WATER MAIN CROSSINGS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.

HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
 AND METS TECHNICAL REQUIREMENTS.
[Signature] 8/3/89
 SOIL CONSERVATION SERVICE DATE

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8/3/89
 HOWARD SOIL CONSERVATION DISTRICT DATE

NOTES:
 1. LOTS 45 THRU 59 HAVE EXISTING PLUGGED 8" G. TEES ONLY WHICH WERE BUILT UNDER CONTRACT 10-1215. THE CONTRACTOR TO REMOVE EXISTING G. TEES AND CONSTRUCT G. SEWER HOUSE CONNECTIONS AS SHOWN ON PLAN.
 2. THE CONTRACTOR IS TO ADJUST THE RIM ELEVATION ON EX. MANHOLES 202, 203 AND 204 TO THE ELEVATIONS SHOWN ON PLAN.

PLAN
 SCALE: 1" = 50'

ITEM	QUANTITIES		SUPPLIER
	ESTIMATED	AS-BUILT	
6" Water	650 LF	690 LF	GRiffin Pipe Prod./Griffin Pipe Prod.
8" Water	24 LF	25 LF	" "
12" 8" T94V	1 EA.	1 EA.	MUELLER / BOLAN Road Supply
Fire Hydrants	1 EA.	1 EA.	" "
1" W.H.C.	82 LF.	85 LF.	HOWELL " "
3/4" W.H.C.	175 LF.	236 LF.	" "
6" S.H.C.	291 LF.	344 LF.	J.M. Manufacturing Co./Bolan Road Supply

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 8/1/89
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 8/2/89
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 8/14/89
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 8/1/89
 CHIEF, LAND DEVELOPMENT DIVISION DATE

TRACY, SCHULTE
 & ASSOCIATES, INC.
 planning - architecture - engineering
 8480 Baltimore National Pike, Suite 418
 Ellicott City, Maryland 21043

ES: RJW
 URN: CRS
 CHK: JKT
 DATE: 12-22-88
 DATE: 6-15-89

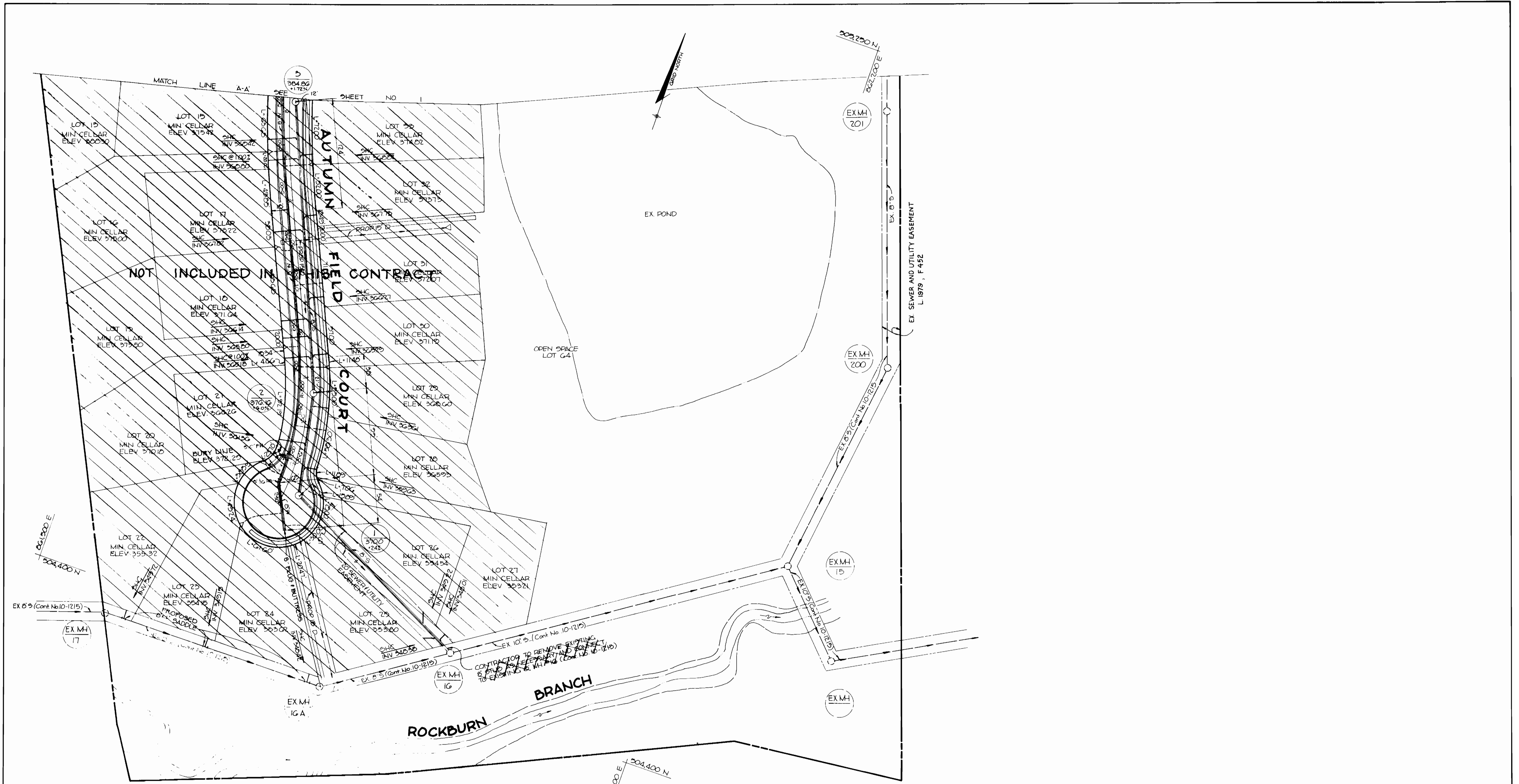
REMOVE AUTUMN FIELD CT AND JAMES AVE
 FROM THIS CONTRACT

**PLAN OF
 WATER AND SEWER MAINS**

DATE: 11-29-90
 600' SCALE MAP NO. 31 BLOCK NO. 21

PHASE II
 STRAWBERRY FIELDS
 SECTION I, AREA I
 LOTS 45-59
 ELECTION DISTRICT NO. 1
 CONTRACT NO. 14-3064-D

SCALE AS SHOWN
 SHEET 1 OF 3



PLAN
SCALE: 1" = 80'

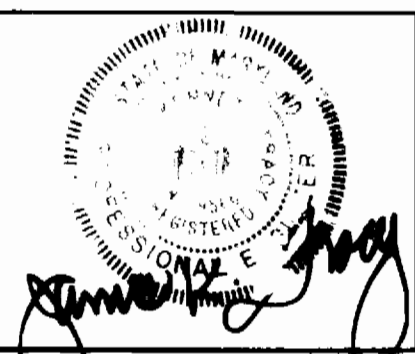
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Howell W. Welton 8/7/89
DIRECTOR OF PUBLIC WORKS DATE

Robert Benner 8-2-89
CHIEF, BUREAU OF UTILITIES DATE

Paul D. Green 8/4/89
CHIEF, LAND DEVELOPMENT DIVISION DATE

TRACY, SCHULTE
& ASSOCIATES, INC.
planning · architecture · engineering
8480 Baltimore National Pike · Suite 418
Ellicott City, Maryland 21043



DES: RJW					
DRN: CRS					
CHK: JKT					
DATE: 12-22-88	ES	Δ	REMOVE AUTUM CT AND JAMES AVE FROM THIS CONTRACT	11-29-90	
DATE: 6-15-89	BY	NO.	REVISION	DATE	

PLAN OF
WATER AND SEWER MAINS

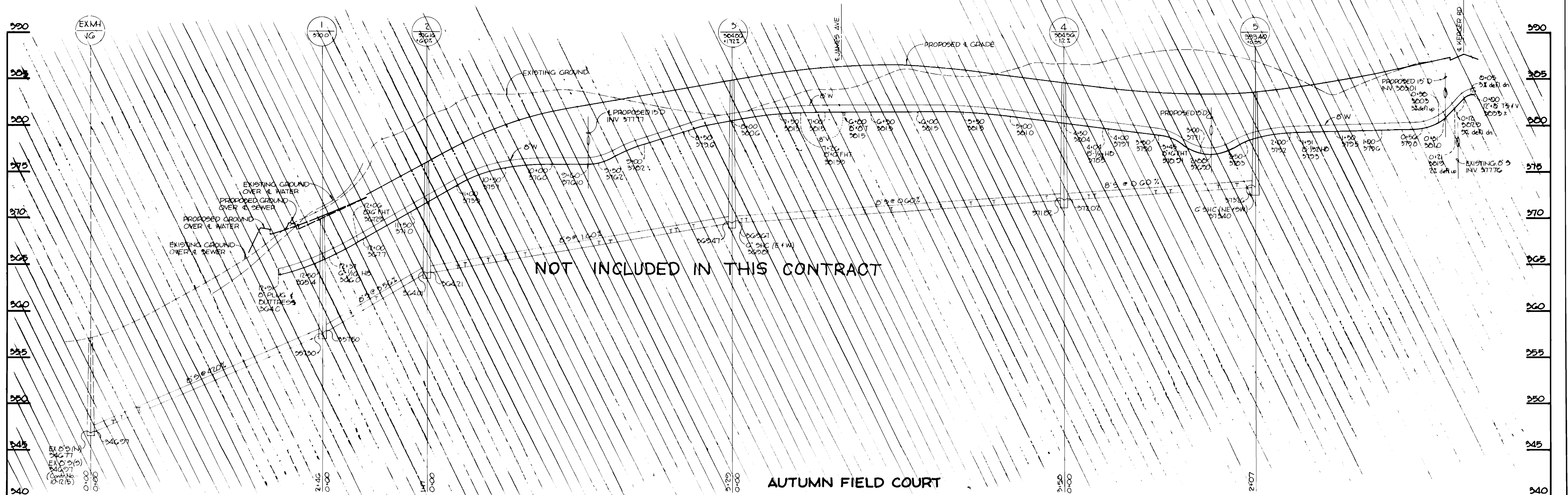
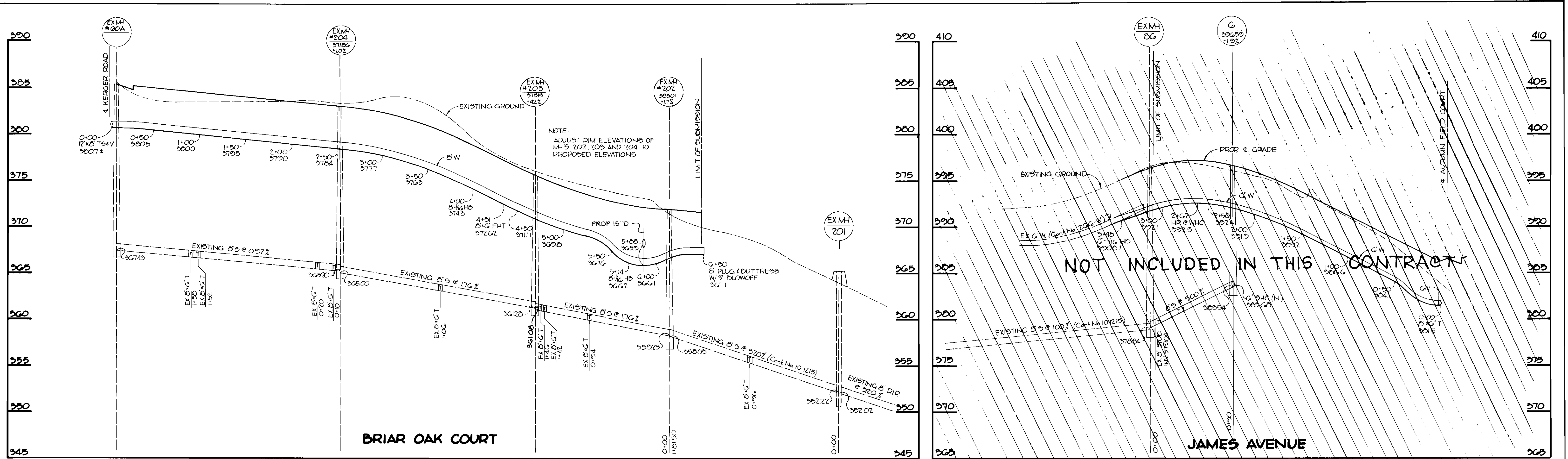
600' SCALE MAP NO. 31 BLOCK NO. 21

PHASE II
STRAWBERRY FIELDS
SECTION I, AREA I
LOTS 45-59
ELECTION DISTRICT NO. 1

CONTRACT NO. 14-3064-D

SCALE AS SHOWN

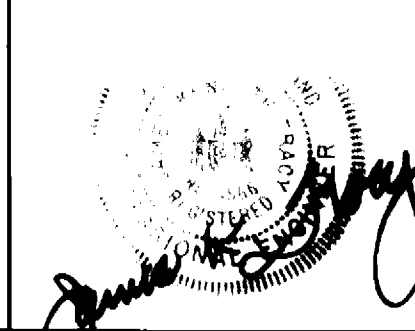
SHEET 2 OF 3



PROFILE
SCALE: H 1"=50'
V 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works: *William W. Weiland* 8/1/89
Chief, Bureau of Engineering: *Richard E. Ryan* 8/1/89
Chief, Bureau of Utilities: *Richard E. Ryan* 8-2-89
Chief, Land Development Division: *Richard E. Ryan* 8/1/89

TRACY, SCHULTE & ASSOCIATES, INC.
planning · architecture · engineering
8480 Baltimore National Pike, Suite 418
Ellicott City, Maryland 21043



DES: JLR					
DRN: JLT					
CHK: RJW					
DATE: 10-28-88	ES	Δ	REMOVE AUTUMN FIELD CT. AND JAMES AVE FROM THIS CONTRACT	11-29-90	
BY: G.C.	NO.		REVISION	DATE	

PROFILES OF WATER AND SEWER MAINS
600' SCALE MAP NO. _____ BLOCK NO. _____

PHASE II STRAWBERRY FIELDS SECTION I, AREA I
LOTS 45-52
ELECTION DISTRICT NO. 1
CONTRACT NO. 14-3064-D

SCALE AS SHOWN
SHEET 3 OF 3