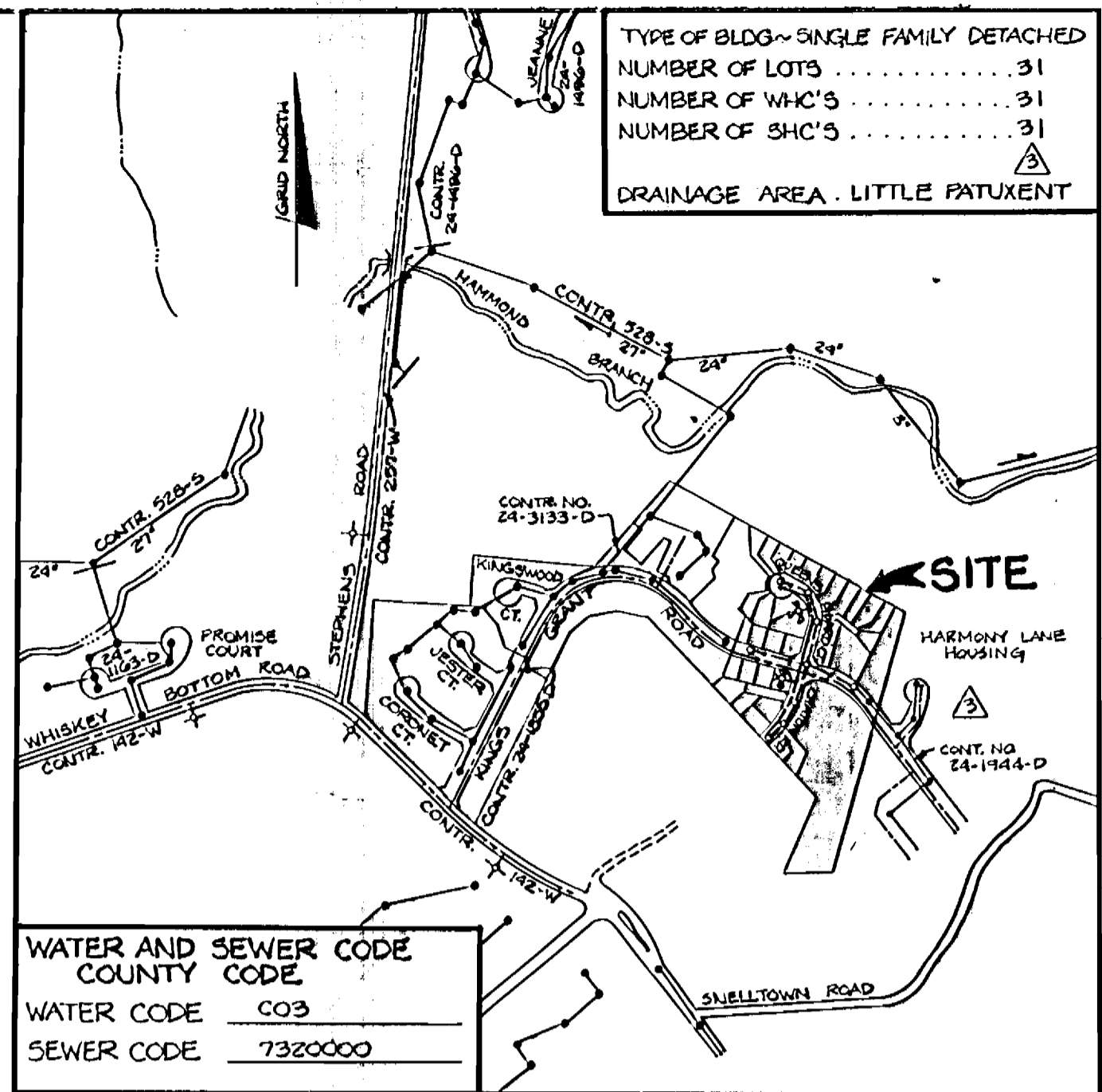


### WATER AND SEWER HOUSE CONNECTION CHART

LOT No.	WATER HOUSE CONNECTION	SEWER HOUSE CONNECTION
236	WL STA 0+688.2 KINGS GRANT RD.	SL STA 1+253.3 KINGS GRANT RD.
237	WL STA 0+688.2 KINGS GRANT RD.	SL STA 1+019.9 KINGS GRANT RD.
238	WL STA 1+322.2 KINGS GRANT RD.	SL STA 3+111.5 KINGS GRANT RD.
239	WL STA 1+322.2 KINGS GRANT RD.	SL STA 2+775.5 KINGS GRANT RD.
240	WL STA 3+158.0 QUEENS GUARD CT.	SL STA 3+527.7 QUEENS GUARD CT.
241	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+250.0 QUEENS GUARD CT.
242	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+093.3 QUEENS GUARD CT.
243	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
244	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
245	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
246	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
247	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
248	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
249	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
250	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
251	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
252	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
253	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
254	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
255	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
256	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
257	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
258	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
259	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
260	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
261	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
262	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
263	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
264	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.
265	WL STA 1+12.5 QUEENS GUARD CT.	SL STA 1+338.0 QUEENS GUARD CT.

### BENCH MARKS

10 CG # 1841004	ELEV. 279.324
REBAR 6" SOUTH EDGE OF WHISKEY BOTTOM RD NEAR INTERSECTION OF STEPHENS ROAD	E 243697.878
10 CG # 1941001	ELEV. 277.873
REBAR 4" WEST EDGE OF STEPHENS ROAD IN FRONT OF HOUSE NO. 8020 0.3' BELOW SURFACE	E 243777.549



### WATER AND SEWER CODE COUNTY CODE

WATER CODE: 003  
SEWER CODE: 7320000

### 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.C. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 8". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANY AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES ADDITIONAL BRACING OF POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY 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 BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - C&P TELEPHONE.....1-800-257-7777
  - STATE HIGHWAY ADMINISTRATION.....531-5533
  - BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES.....850-4820
  - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL.....859-9004
  - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING.....298-9001
  - MISS UTILITY.....1-559-0100
  - COLONIAL PIPELINE CO. CONTRACTOR SERVICES.....795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.....313-4900
- 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.
- ALL EXCAVATION SHALL BE PROTECTED AND MAINTAINED AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 D.I.P. UNLESS OTHERWISE NOTED.
- TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-8" 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 ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AS PER STANDARD DETAIL W-111 AND W-211.
- IN ACCORDANCE WITH SECTIONS 1000 AND 1005 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 D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPEC. C-153 DUCTILE IRON COMPACT FITTINGS 3"-12" FOR WATER AND OTHER LIQUIDS.
- THE SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.
- ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X., OR PVC 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 18" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 05-52 VOLUME IV WHERE WATER-TIGHT MANHOLE IS USED, SET TOP OF FRAME 1'-0" ABOVE FINISHED GRADE.
- HOUSE (S) WITH SYMBOL "C.N.S." INDICATES CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 12" ABOVE ALL SANITARY SEWER CROSSINGS.
- ALL SANITARY SEWER 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.

### QUANTITIES

ITEM	QUANTITIES ESTIMATED	AS-BUILT QUANTITIES	AS-BUILT TYPE	MANUFACTURER/SUPPLIER
WATER	1199 LF	1199		GRIFFIN
WATER VALVES	3 EA	3		GRIFFIN
FIRE HYDRANTS	2 EA	2		MUELLER
1 1/2" WHC	540 LF	442	36 LF	MUELLER
1" WHC	109 LF	189	294 LF	HOWELL
SEWER	1510 LF	1321	169 LF	J-M MANUF.
MANHOLES	11 EA	9	2 EA	TERRE HILL
SHC	825 LF	801	24 LF	J-M MANUF.
DHC	36 LF	44		J-M MANUF.
AIR RELEASE MH	1 EA	1		APCO

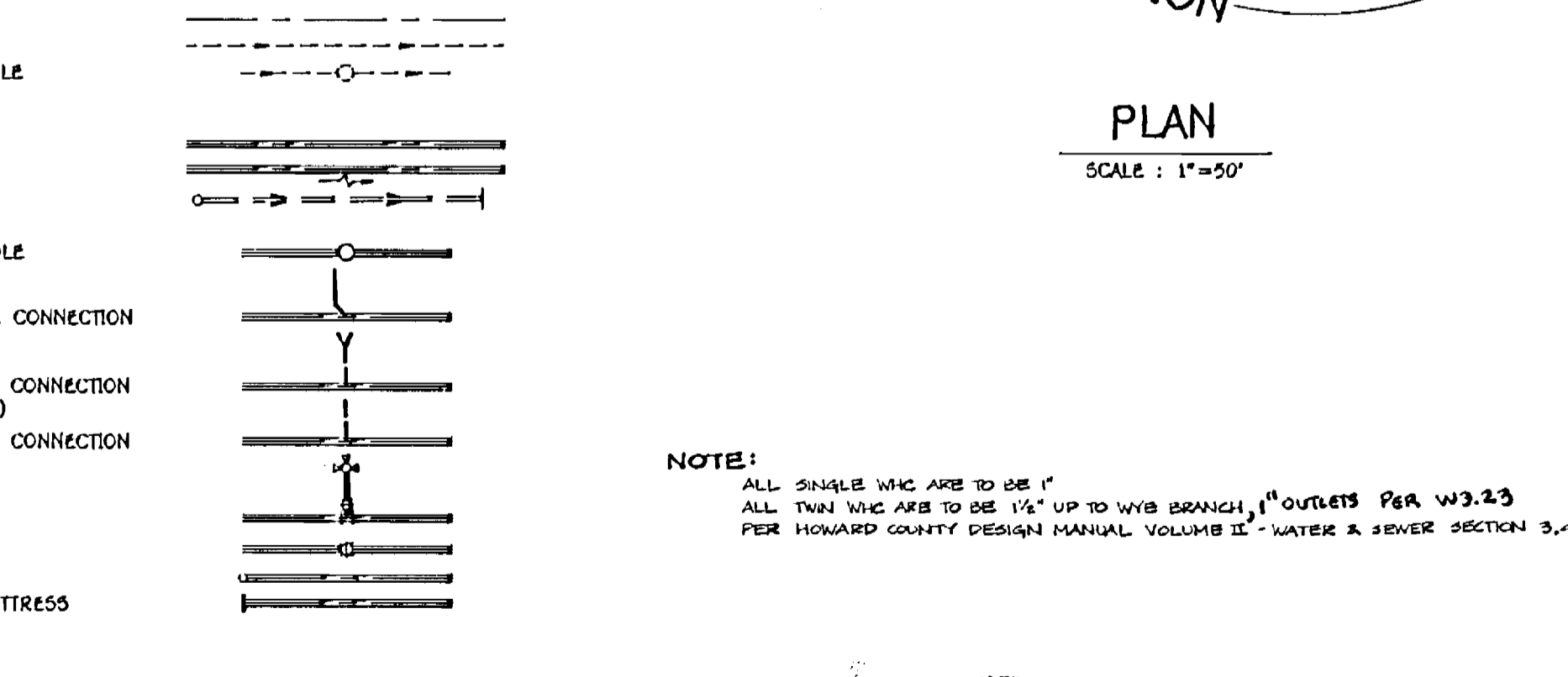
HOWARD SOIL CONSERVATION DISTRICT  
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Feltz (CS)* 3/18/92  
U.S. SOIL CONSERVATION SERVICE DATE

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

*Clifford W. Schlemmer* 3/18/92  
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS #9-1-125



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Feltz* 3/18/92  
DIRECTOR OF PUBLIC WORKS DATE

*Clifford W. Schlemmer* 3/18/92  
CHIEF, BUREAU OF UTILITIES DATE

*James M. Feltz* 3/20/92  
CHIEF, BUREAU OF ENGINEERING DATE

*Clifford W. Schlemmer* 3/18/92  
CHIEF, LAND DEVELOPMENT DIVISION DATE

TSA GROUP, INC.  
planning • engineering • surveying  
8180 Baltimore National Pike • Suite 418  
Ellicott City, Maryland 21043

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
No. 10001  
TSA GROUP, INC.

DES: DRK	DATE	REVISIONS
DRK	4-9-92	CORRECT FRONT FOOTAGE FOR LOTS 236, 237, 238, 243, & 246
DRK	7-2-92	CORRECT LOT LINE BETWEEN OPEN SPACE LOT 251 & LOT 252
JME	9-29-92	REVISE LOT 250 AND PARCEL B. ADD 'N' FOR PARCEL B. CORRECT MIN. CELLAR ELEVATIONS
JME	4-6-93	ADD WATER AND SEWER CONNECTION (SHEET 3) PROPOSED 102, 7-23-91, LOTS 238-239

DATE: 8/20/91  
BY: NO. REVISIONS DATE

PLAN OF  
WATER & SEWER MAINS

600 SCALE MAP NO. 47 BLOCK NO. 22

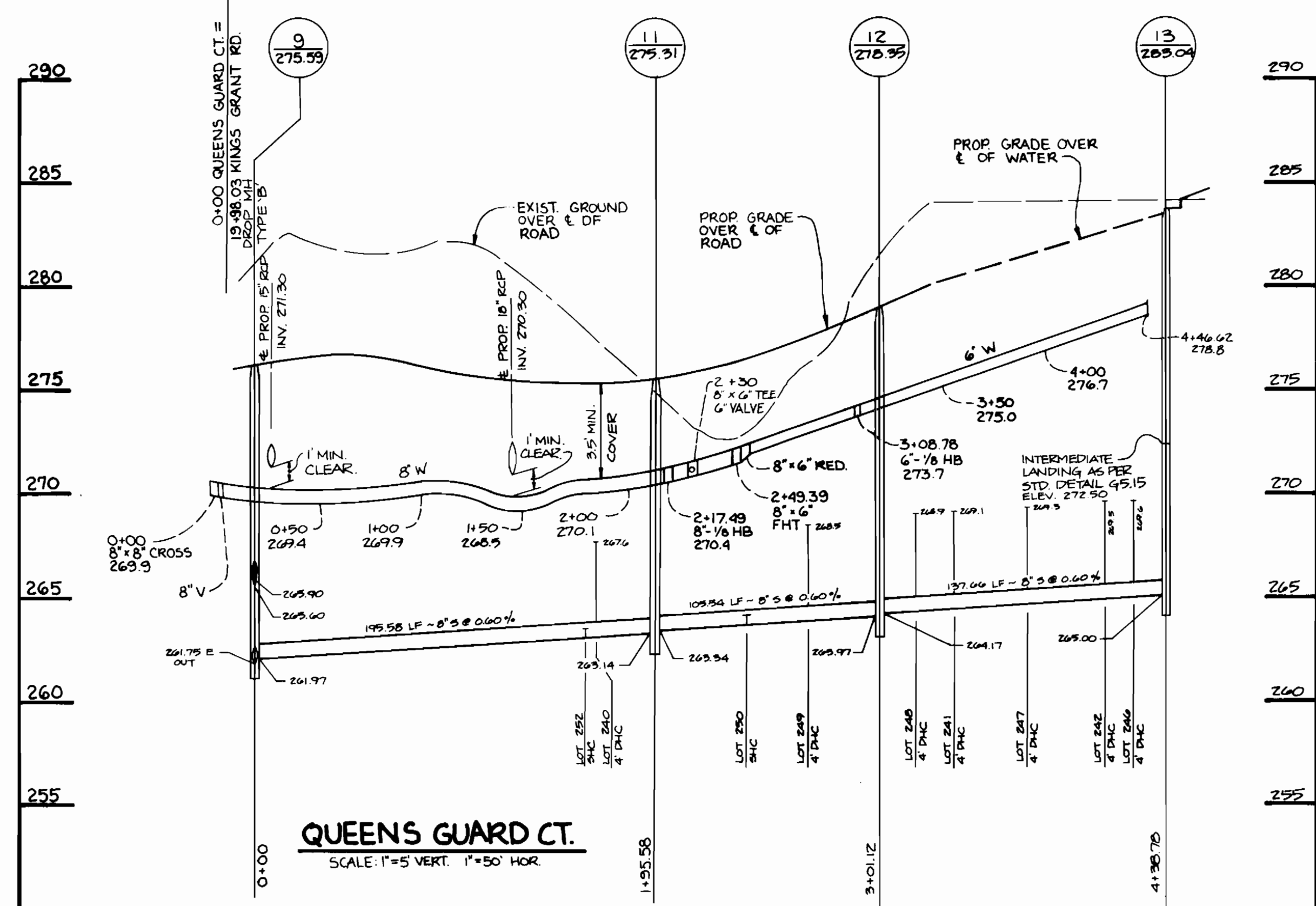
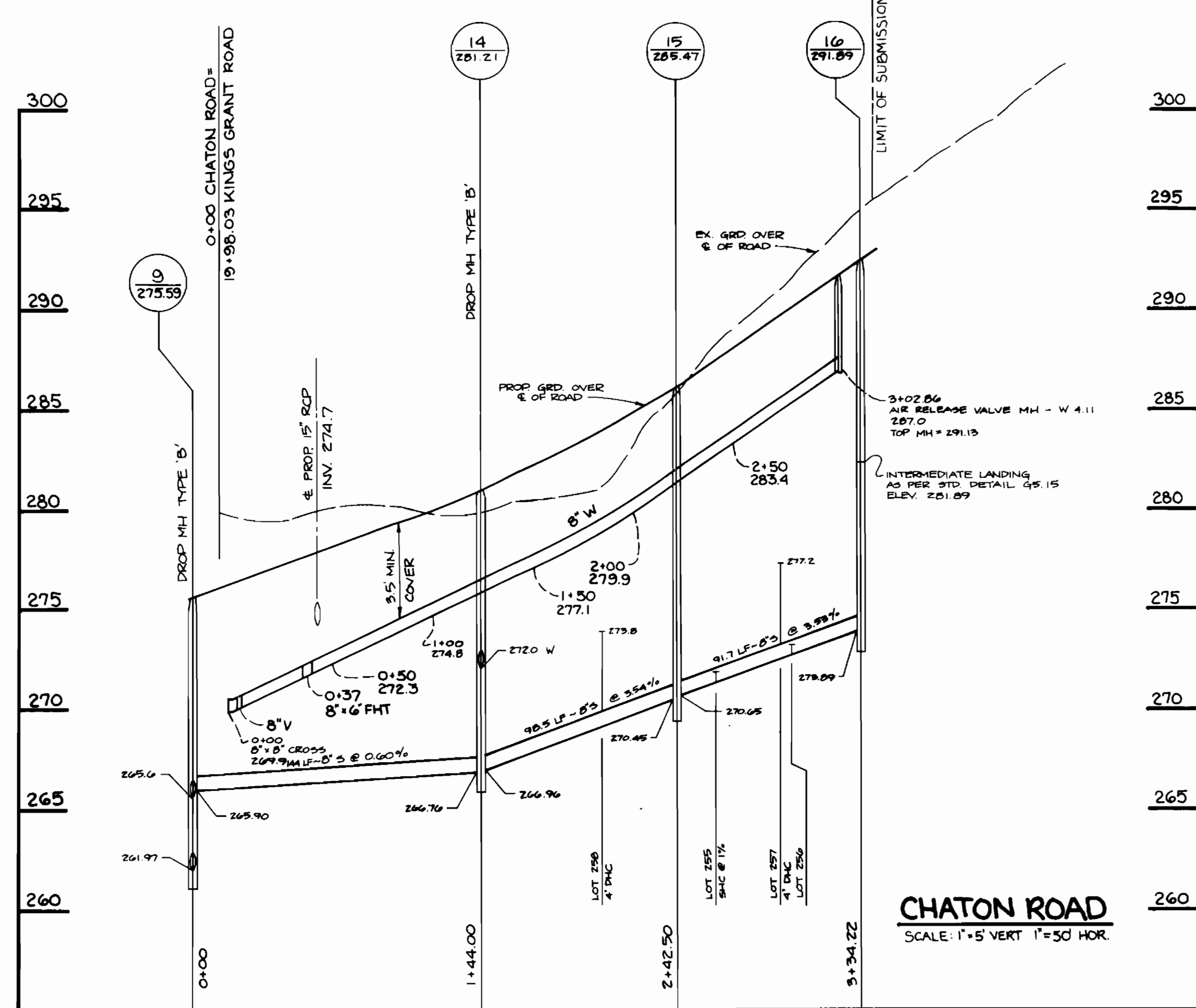
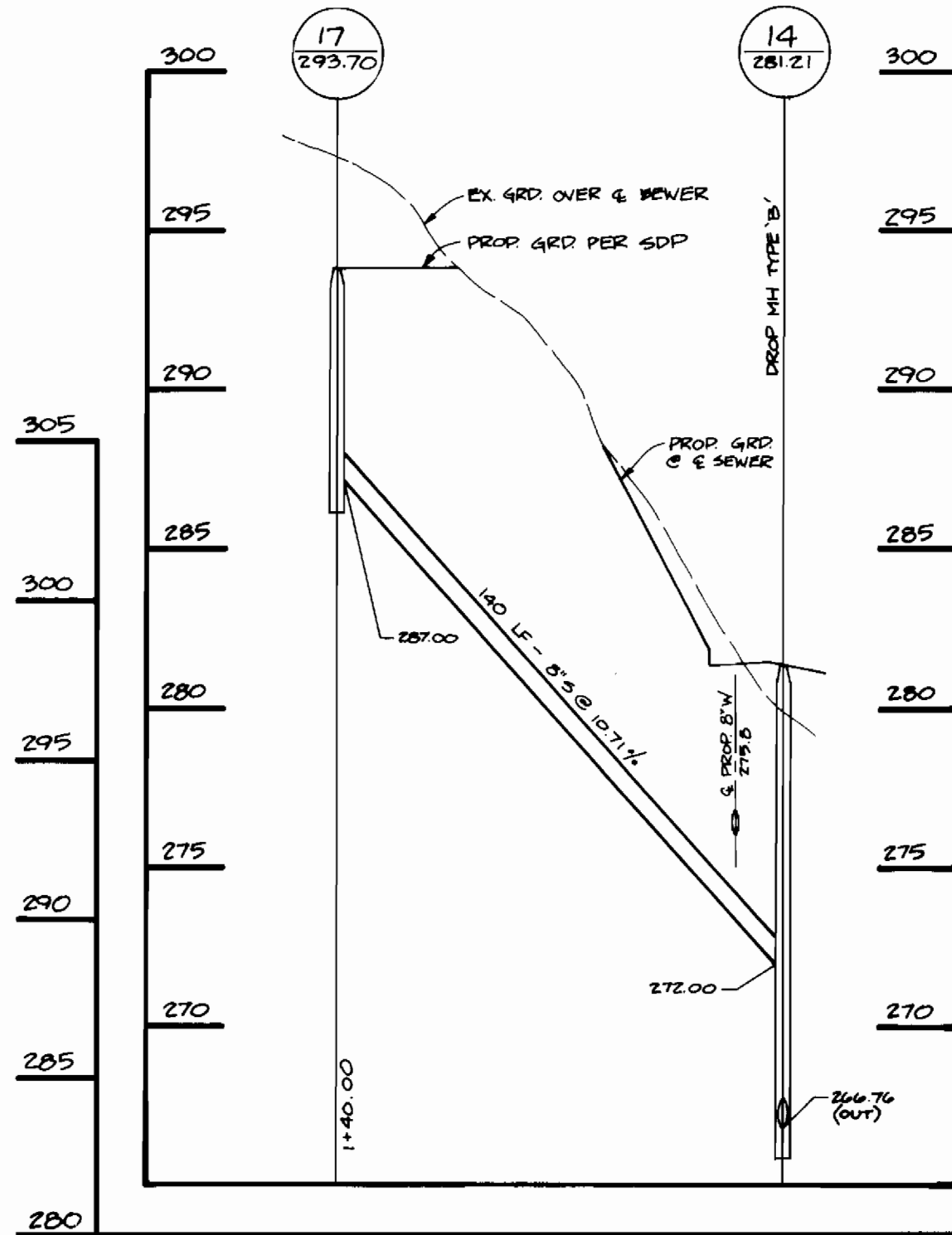
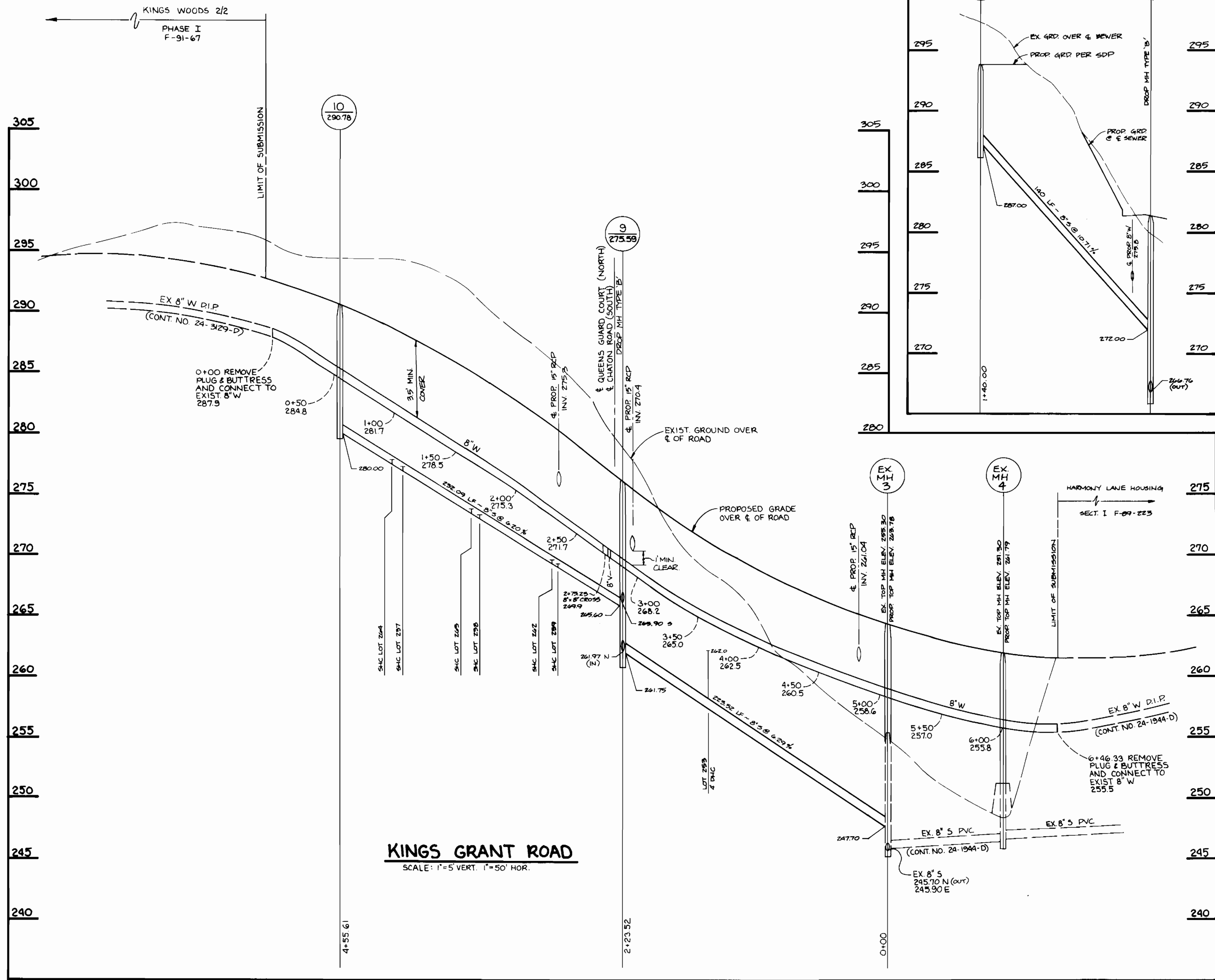
KING'S WOODS  
SECTION 2, AREA 2 - PHASE 3  
LOTS 236 THRU 265 AND PARCEL B  
ELECTION DISTRICT NO. 8  
CONTRACT NO. 24-3159-D

SCALE AS SHOWN

SHEET 1 OF 3

AS-BUILT 8/5/93





DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

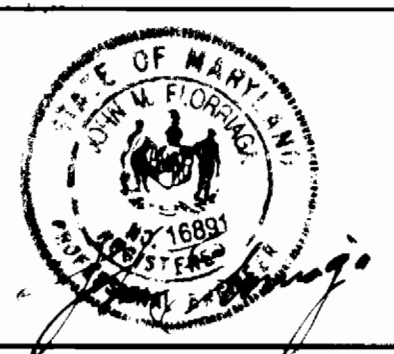
3-9-92  
DATE

3-20-92  
DATE

CHIEF, BUREAU OF ENGINEERING

CHIEF, LAND DEVELOPMENT DIVISION

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



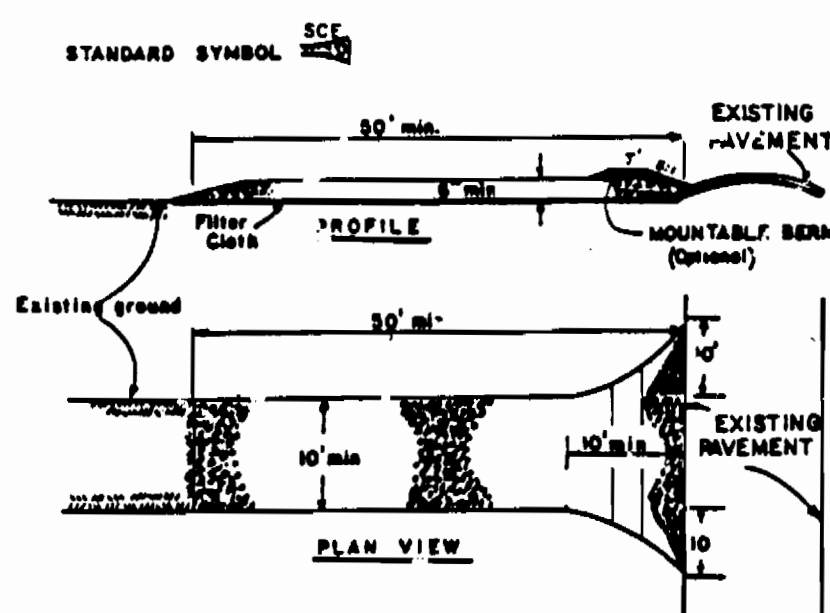
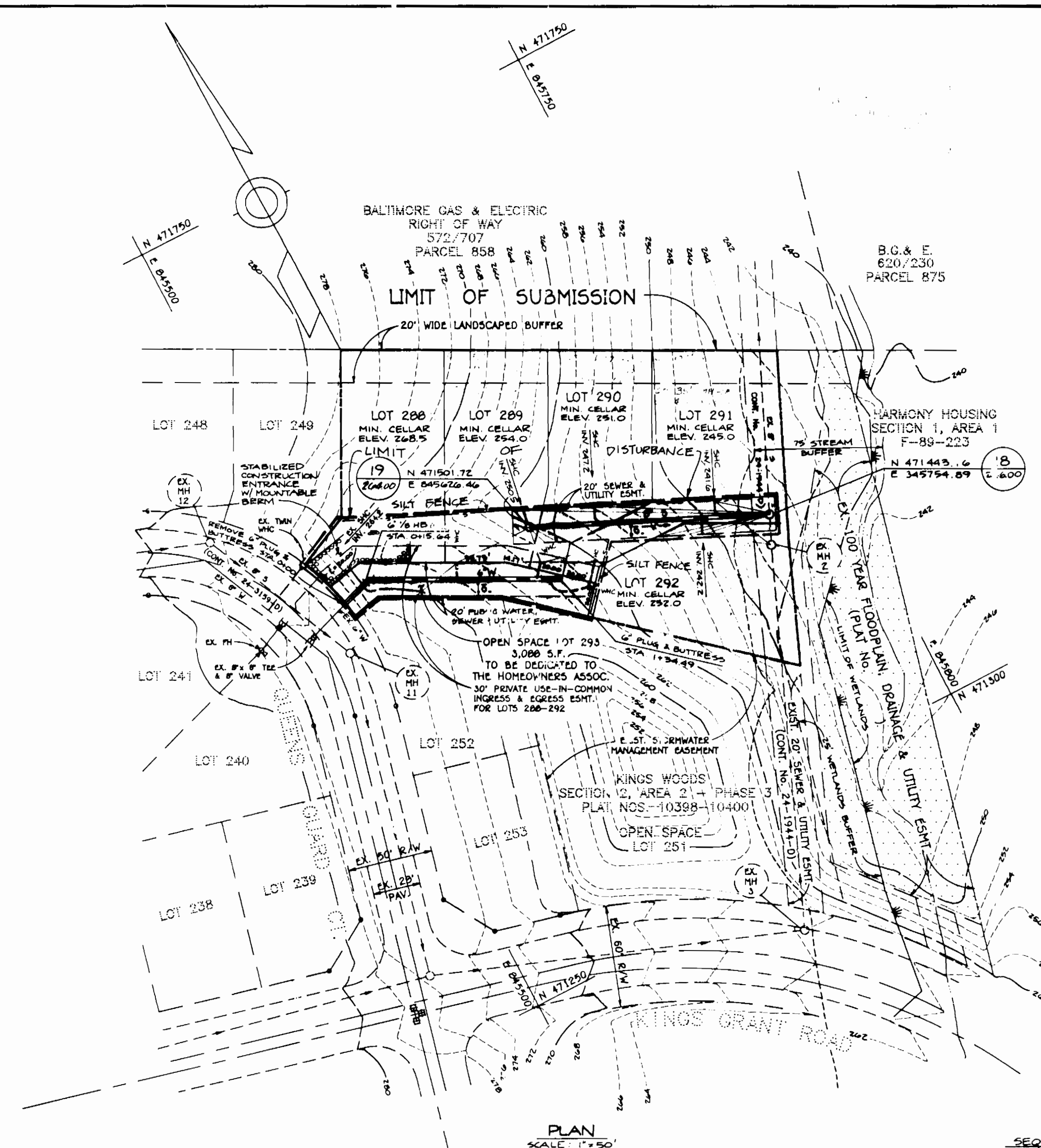
DES: DRK	ADD G W FOR PARCEL B	7-2-92
DRN: DBT	ADD WATER AND SEWER CONSTRUCTION (SHEET 2) PROPOSED FOR F-93-21, LOTS 288-293	
CHK: JME		
DATE: 5/22/91		
BY NO.	REVISIONS	DATE

PROFILES OF WATER & SEWER MAINS

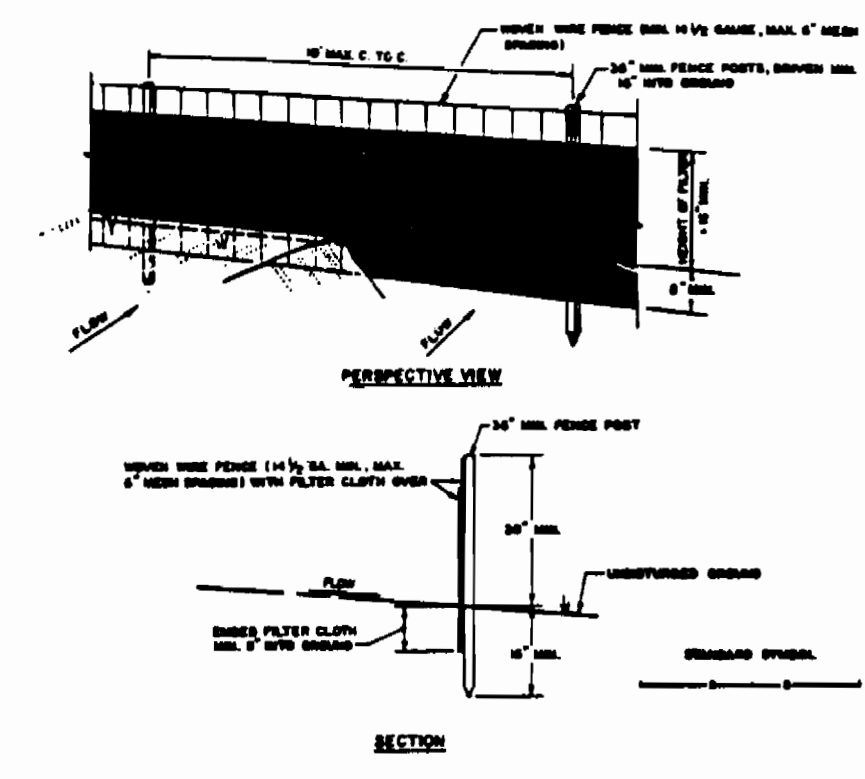
600'SCALE MAP NO. 47 BLOCK NO. 22

KING'S WOODS  
SECTION 2, AREA 2, PHASE 3  
LOTS 236-245 AND PARCEL B  
ELECTION DISTRICT NO. 6  
CONTRACT NO. 24-3159-D

SCALE AS SHOWN  
SHEET 2 OF 3

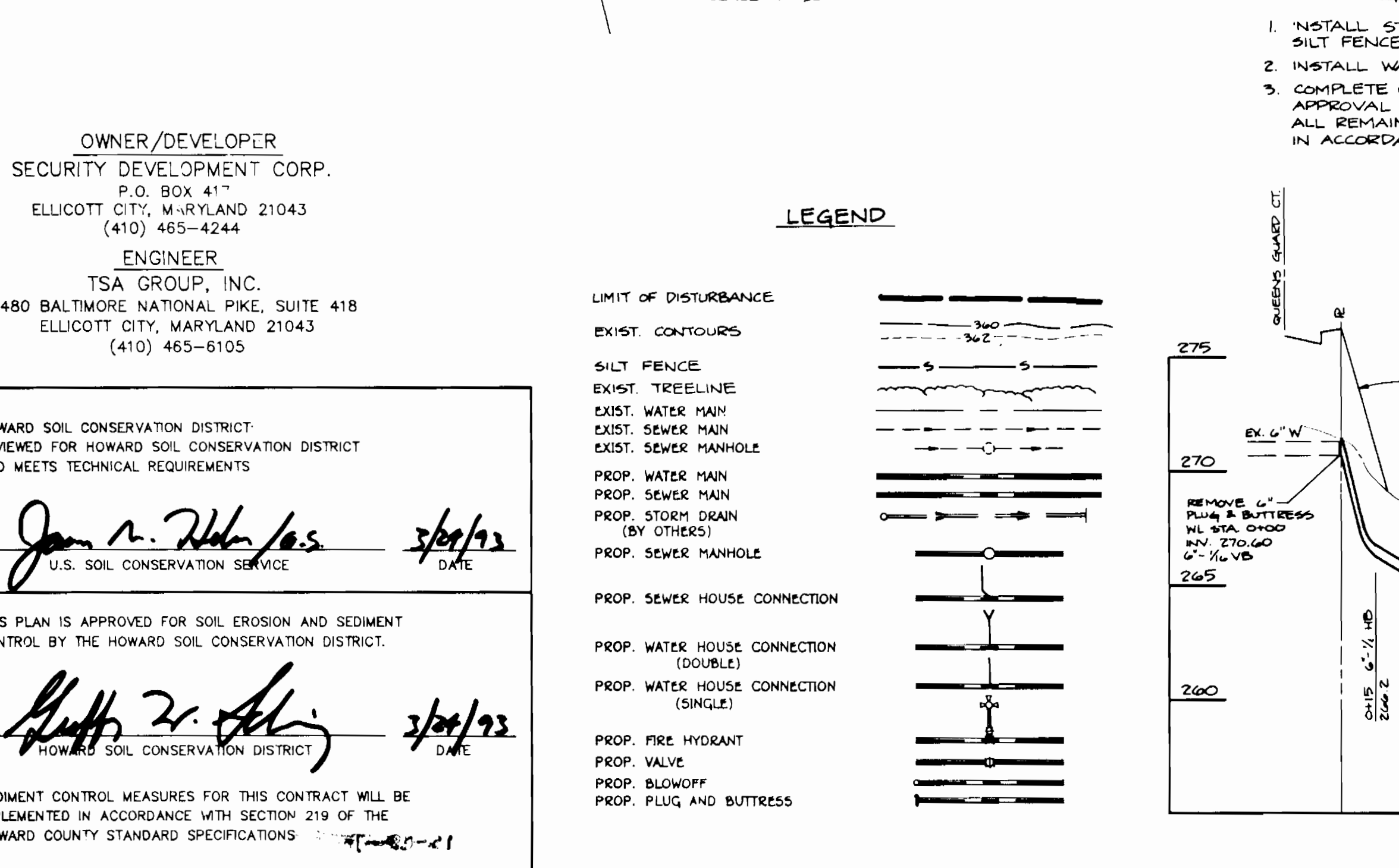


- CONSTRUCTION SPECIFICATIONS**
- Stone size - One 2" stone, or crushed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single roll-down job where a 20 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Height - 18" (18) from minimum, but not less than the full width at which water enters or passes over.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence. See Note 7.
  - Material - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or placement of any material used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.
  - Maintenance - Stone shall be placed to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.



- INSTALLATION NOTES FOR SPECIFICATED SILT FENCE**
- Stone size shall be maintained regularly to meet notes with wire ties or staples.
  - Filter cloth to be fastened securely to stone with wire ties or staples every 2' at top and bottom.
  - When two sections of filter cloth abut each other the wall shall be overlapped by six inches and staked.
  - Maintenance shall be performed as needed and material removed when "mats" develop in the silt fence.

- SEDIMENT CONTROL NOTES**
- A minimum of 48 hours notice must be given to the HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION 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 1963 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
  - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIGS, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
  - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL - STORM DRAINAGE.
  - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1963 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL P.P. PERMANENT SEEDING (SEC. 511 200 (SEC. 54)), TEMPORARY SEEDING (SEC. 58) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATA DO NOT ALLOW FOR PROPER GERMINATION 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 SEDIMENT CONTROL INSPECTOR.
  - SITE ANALYSIS:**  
 TOTAL AREA OF SITE: 0.97 ACRES  
 AREA TO BE ROOFED OR PAVED: 0.35 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED: 0.35 ACRES  
 TOTAL CUT: 80 YDS CU YRD  
 TOTAL FILL: 0 CU YRD  
 OFFSITE WASTE/BORROW AREA LOCATION: [Blank]
  - ANY SEDIMENT CONTROL PRACTICES WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
  - ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, 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.
  - TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE (3) FEET LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

**SILT FENCE**  
NO SCALE

**OWNER/DEVELOPER**  
SECURITY DEVELOPMENT CORP.  
P.O. BOX 417  
ELLICOTT CITY, MARYLAND 21043  
(410) 465-4244

**ENGINEER**  
TSA GROUP, INC.  
8480 BALTIMORE NATIONAL PIKE, SUITE 418  
ELLICOTT CITY, MARYLAND 21043  
(410) 465-6105

HOWARD SOIL CONSERVATION DISTRICT  
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*Jan M. Hahn* 3/24/93  
U.S. SOIL CONSERVATION SERVICE DATE

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

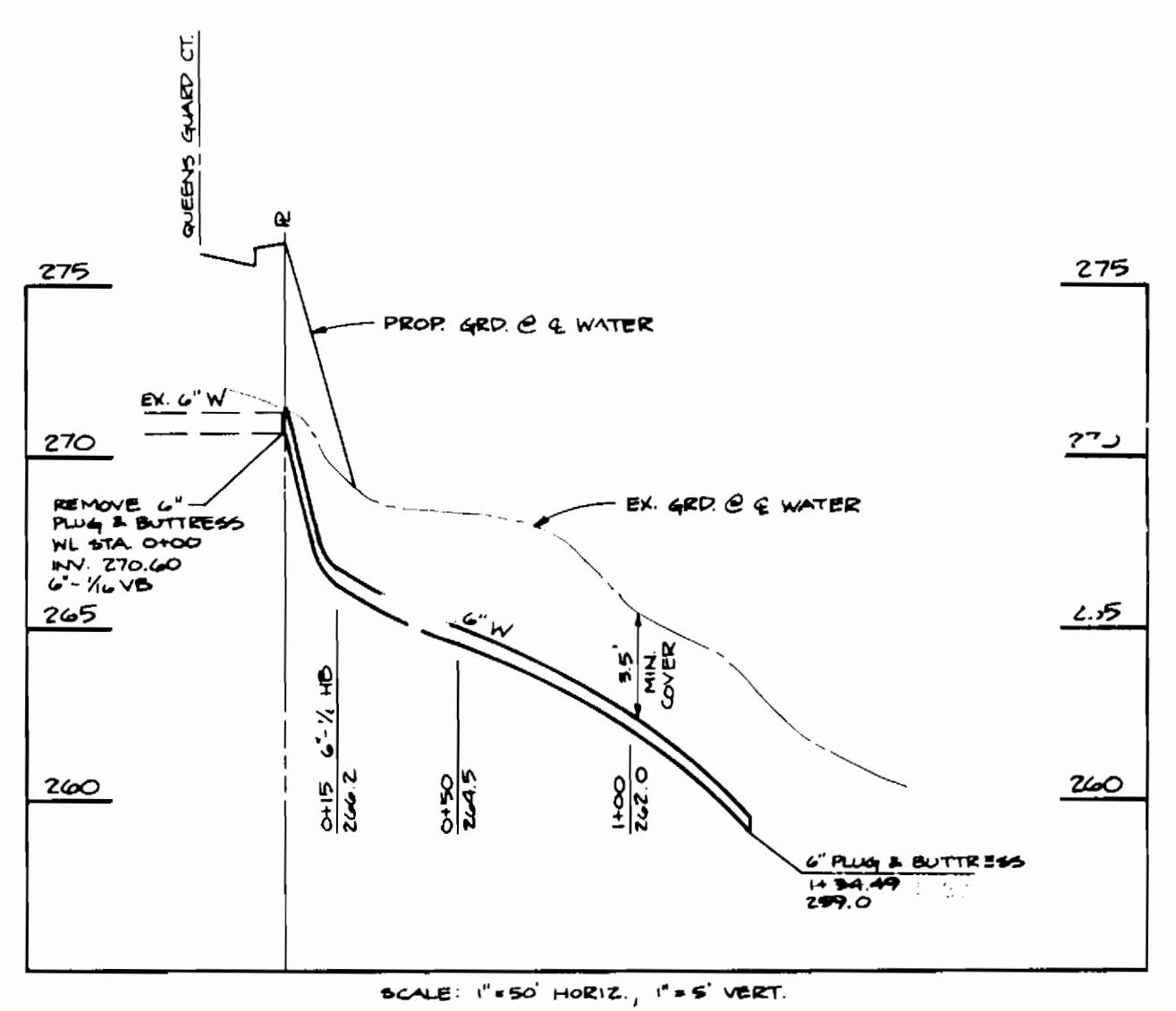
*Shuff Z. Adley* 3/24/93  
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS.

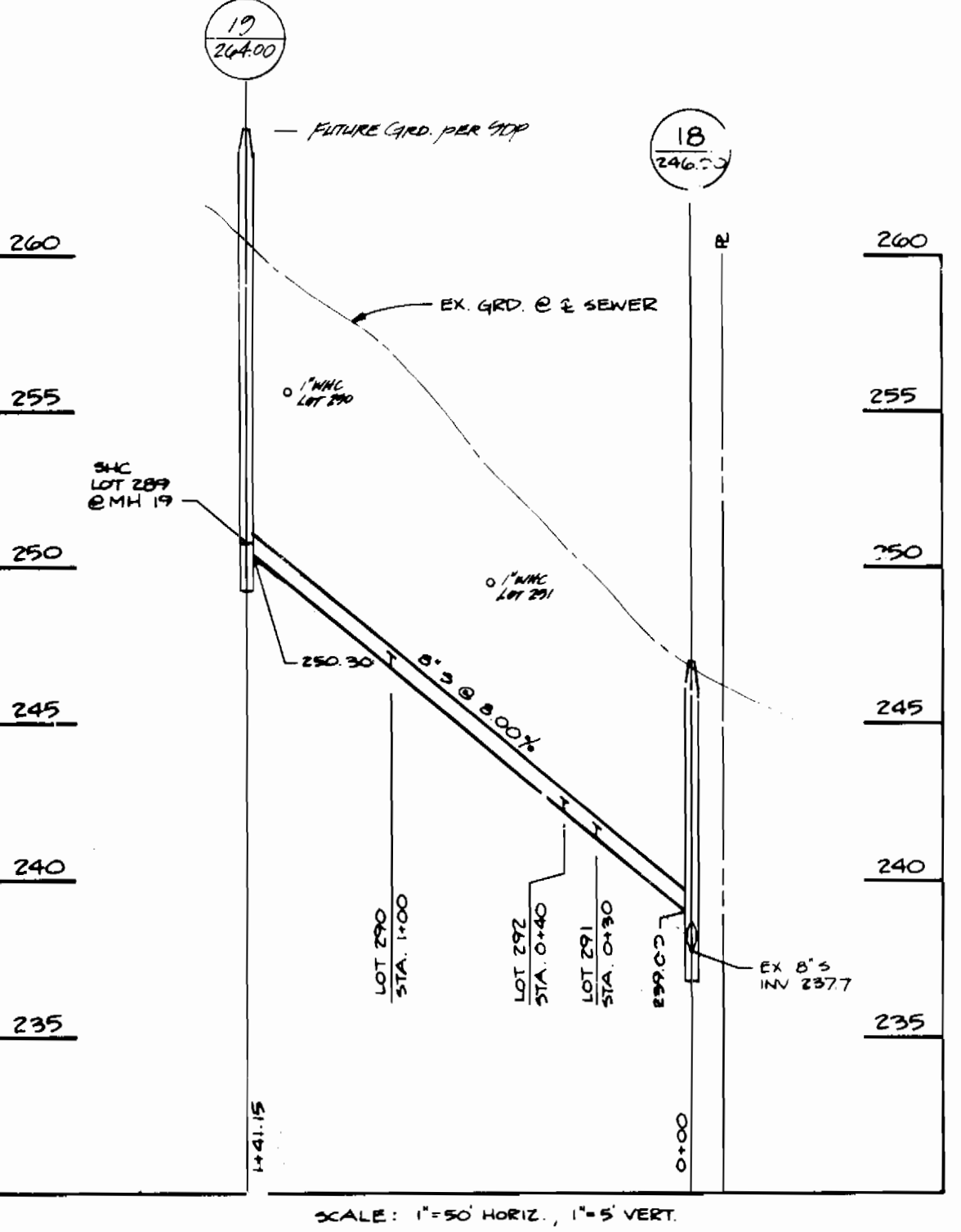
- LEGEND**
- LIMIT OF DISTURBANCE
  - EXIST. CONTOURS
  - SILT FENCE
  - EXIST. TREELINE
  - EXIST. WATER MAIN
  - EXIST. SEWER MAIN
  - EXIST. SEWER MANHOLE
  - PROP. WATER MAIN
  - PROP. SEWER MAIN
  - PROP. STORM DRAIN (BY OTHERS)
  - PROP. SEWER MANHOLE
  - PROP. SEWER HOUSE CONNECTION
  - PROP. WATER HOUSE CONNECTION (DOUBLE)
  - PROP. WATER HOUSE CONNECTION (SINGLE)
  - PROP. FIRE HYDRANT
  - PROP. VALVE
  - PROP. BLOWOFF
  - PROP. PLUG AND BUTTRESS

**SEQUENCE OF CONSTRUCTION**

- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE
- INSTALL WATER AND SEWER
- COMPLETE WATER AND SEWER INSTALLATION AND UPON THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.



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



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

- PERMANENT SEEDING PREPARATION**
- SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- PREFERRED - APPLY 2 TONS PER ACRE OOLIMTIC LIMESTONE (92 100/1000 sq ft) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (15 100/1000 sq ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAPROM FERTILIZER (9 100/1000 sq ft)
  - ACCEPTABLE - APPLY 2 TONS PER ACRE OOLIMTIC LIMESTONE (5 100/1000 sq ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 100/1000 sq ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- SEEDING:** FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (14 100/1000 sq ft) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 THRU JULY 31. SEED WITH 60 LBS OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 100/1000 sq ft) OF WHEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) USE SOO; OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.
- MULCHING:** APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 100/1000 sq ft) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 000/1000 sq ft) OF UNCLASSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 6 FT. OR HIGHER, USE 340 GALLONS PER ACRE (8 000/1000 sq ft) FOR ANCHORING.
- MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- TEMPORARY SEEDING PREPARATION**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 100/1000 sq ft).
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 100/1000 sq ft). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEEPING LOVEGRASS (0.7 100/1000 sq ft). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, 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 1-1/2 TO 2 TONS PER ACRE (70 TO 90 100/1000 sq ft) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 000/1000 sq ft) OF UNCLASSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 6 FT. OR HIGHER, USE 340 GALLONS PER ACRE (8 000/1000 sq ft) FOR ANCHORING.
- REFER TO THE 1963 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Hahn* 3/26/93  
DIRECTOR OF PUBLIC WORKS DATE

*Shuff Z. Adley* 3/26/93  
CHIEF, BUREAU OF ENGINEERING DATE

*Robert M. Beiner* 3/26/93  
CHIEF, BUREAU OF UTILITIES DATE

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*John E. Long*

DES: MA  
DRN: PBT  
CHK: JME  
DATE: 8-17-92

BY NO.	REVISIONS	DATE	600 SCALE MAP NO. 37

PLAN AND PROFILE OF  
WATER & SEWER MAINS

**KING'S WOODS**  
SECTION 2, AREA 2 - PHASE 3  
LOTS 288 - 293  
ELECTION DISTRICT No. 6

CONTRACT NO. 24-3159-D

SCALE AS SHOWN

SHEET 3 OF 3