

3320 WS/1 RICE PROP. 1/2 lots 1-44

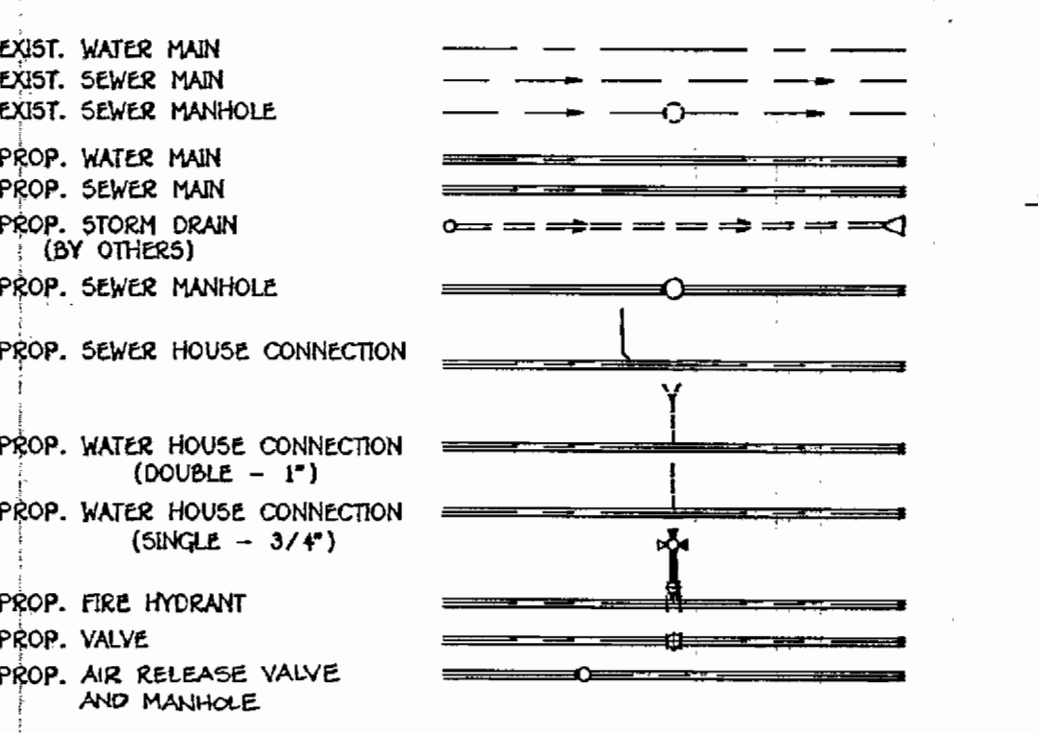
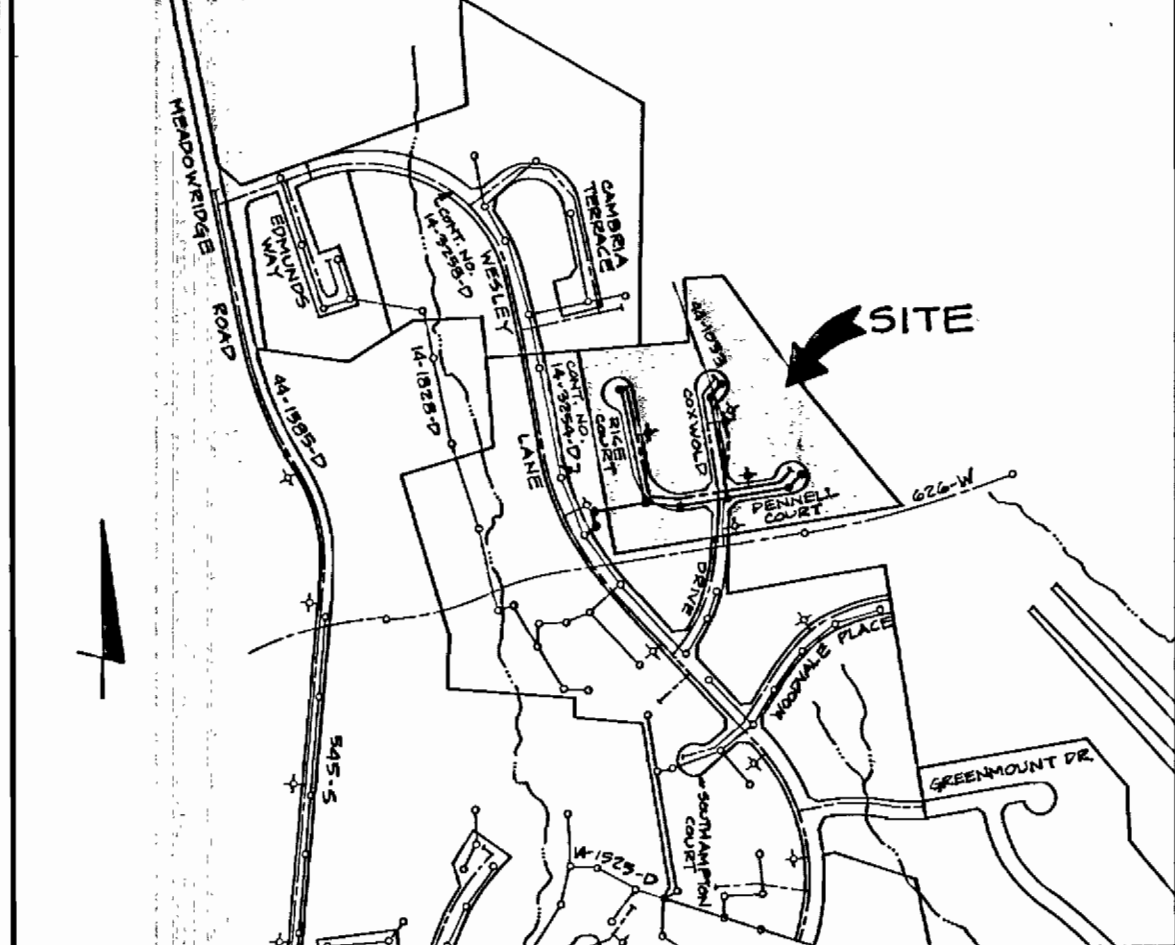
AS BUILT 1/20/95

QUANTITIES			
ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	MANUF./SUPPLIER
WATER	892 LF	722 LF	CLASS 52 (GRIFFIN)
WATER	503 LF	524 LF	CLASS 52 (GRIFFIN)
VALVES	3 EA	3 EA	GATE MUELLER/BRS
FIRE HYDRANTS	3 EA	3 EA	GATE MUELLER/BRS
1" WIC	609 LF	595 LF	K COPPER HOWELL/BRS
3/4" WIC	132 LF	130 LF	K COPPER HOWELL/BRS
SEWER	1,205 LF	1,160 LF	PVC SDR 35 SUMNER/BRS
MANHOLES	10 EA	10 EA	PRECAST ST/UMCGR/BRS
" SHC	1,297 LF	1,500 LF	PVC SDR 35 UM/MCGR/BRS

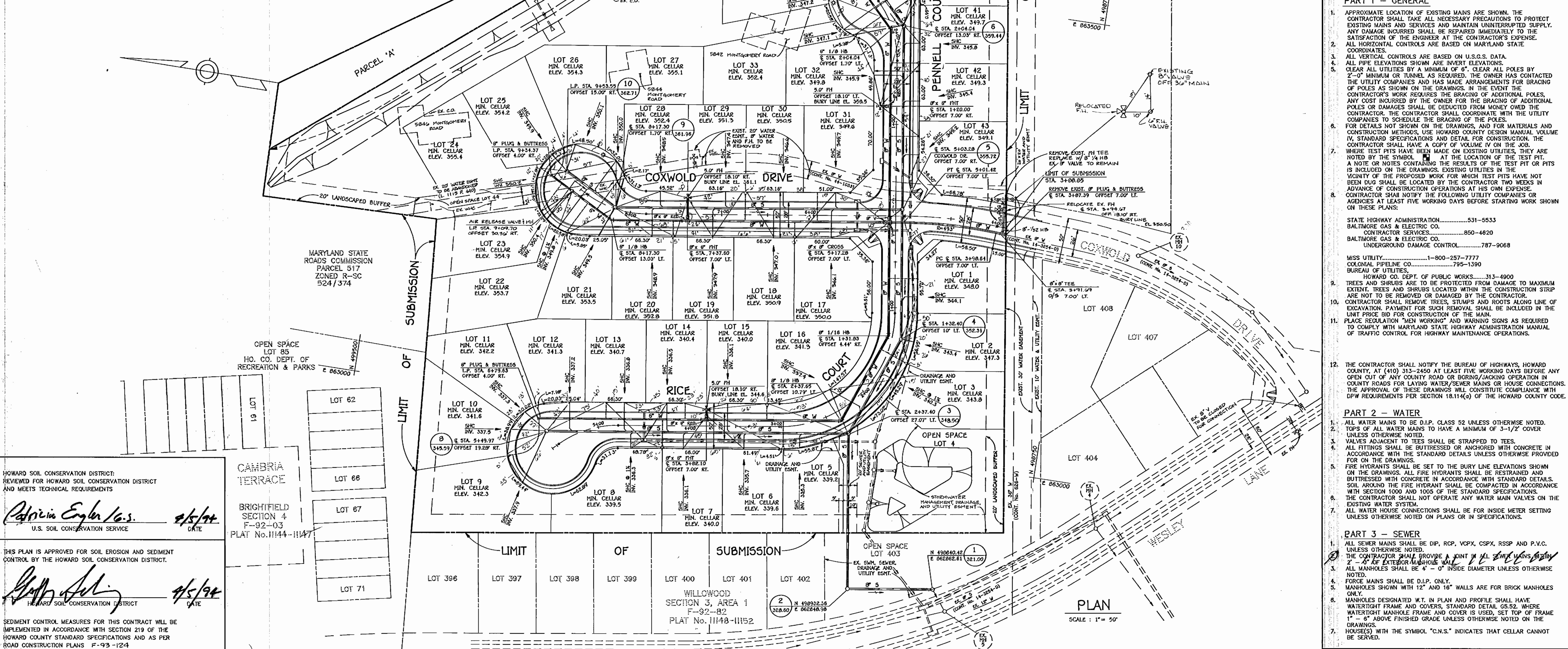
WATER HOUSE CONN. CHART			
LOT No.	STATION @ R/W	ROAD	
1	0+68.1		
2-3	1+53.5		
5-8	2+38.8		
7-9	4+23.9		
9-10	LP. 6+28.0	RICE COURT	
11-12	LP. 6+84.0		
13	4+99.1		
14	4+05.3		
15-16	3+15.0		
17-18	6+20.5		
19-20	7+25.3		
21-22	8+47.0		
23	LP. 8+96.5	COXWOLD DRIVE	
24	LP. 9+125.5		
25-26	LP. 9+125.5		
27-28	8+22.4		
29-30	6+74.7		
31	5+95.0		
32-33	2+13.4	PENNELL COURT	
34-36	LP. 2+90.7		
37-38	LP. 3+37.9		
39-40	2+35.4		
41-42	1+87.0		
43	0+26.9		

- NOTES:
- THE EXISTING RESIDENCES SHOWN SHALL BE REMOVED IN ACCORDANCE WITH F-93-124 PLANS.
 - PRIOR TO ANY NEW WATER AND SEWER CONSTRUCTION, THE EXISTING 8" WATER MAIN (CONTRACT NO. 44-1095) AND WATER HOUSE CONNECTIONS SHALL BE ABANDONED AND REMOVED AS SHOWN.
 - ALL EXISTING FIRE HYDRANTS, AFTER REMOVAL, SHALL BE RETURNED TO THE BUREAU OF UTILITIES.
 - ALL ACCOUNTS EXISTING FOR PROPERTIES MUST BE CLEARED PRIOR TO ABANDONMENT OF 8-INCH WATER MAIN.
 - THE EXISTING HOUSES # 5842, # 5844, AND # 5846 ARE NOT CONNECTED TO PUBLIC SEWER.

BENCH MARKS	
HO. CO. #2444005	ELEV. 271.249
CONC. MONUMENT 0.5' BELOW SURFACE, ON THE WEST SIDE OF MEADOWBRIDGE RD. SOUTH OF MAYFIELD RD.	
N 495588.271	E 863128.170
HO. CO. #2444013	ELEV. 268.109
CONC. MONUMENT AT SURFACE, 17.1' NORTH OF CENTERLINE OF MAYFIELD AVE.	
N 49546.964	E 862542.349



NOTE: SEE PROFILES FOR SEWER HOUSE CONNECTION STATIONS.



WATER AND SEWER COUNTY CODE	
WATER CODE	000
SEWER CODE	240000
TEST GRADIENT	100

TYPE OF BUILDING: SINGLE FAMILY DETACHED
 NUMBER OF LOTS: 41
 NUMBER OF WIC'S: 41
 NUMBER OF SHCS: 41
 DRAINAGE AREA: PATAPSCO
 TREATMENT PLANT: PATAPSCO WASTEWATER

GENERAL NOTES

- PART 1 - GENERAL
- 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. DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT 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 DETAIL 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 UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION.....531-5533
 - BALTIMORE GAS & ELECTRIC CO.....850-4820
 - BALTIMORE GAS & ELECTRIC CO.....787-9068
 - UNDERGROUND DAMAGE CONTROL.....1-800-257-7777
 - MISS UTILITY.....795-1390
 - COLONIAL PIPELINE CO.....313-4900
 - HOWARD CO. DEPT. 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 LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (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 DPM REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.
- PART 2 - WATER
- ALL WATER MAINS TO 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 ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- PART 3 - SEWER
- ALL SEWER MAINS SHALL BE D.I.P. RCP, VCPX, CSPX, RSPD AND P.V.C. UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERIGHT FRAME AND COVERS, STANDARD DETAIL GS.52, WHERE WATERIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

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

Patricia Engler 4/5/94
 U.S. SOIL CONSERVATION SERVICE

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

John Selig 4/5/94
 HOWARD SOIL CONSERVATION DISTRICT

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 F-93-124

CAMBRIA TERRACE

BRIGHTFIELD SECTION 4
 F-92-03
 PLAT No. H144-1147

LOT 62
 LOT 66
 LOT 67
 LOT 71

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. Shaw 4/8/94
 DIRECTOR OF PUBLIC WORKS

Richard J. Sorenson 4/8/94
 CHIEF, BUREAU OF ENGINEERING

Robert J. Berman 3-29-94
 CHIEF, BUREAU OF UTILITIES

John J. Land 4/8/94
 CHIEF, LAND DEVELOPMENT DIVISION

TSA GROUP, INC.
 planning • engineering • surveying
 8480 Baltimore National Pike • Suite 418
 Ellicott City, Maryland 21043

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

DES: DRK	DATE: 6/4/93
DRN: DRK/DBT	BY: NO.
CHK: JME	DATE: 3/23/94
DATE: 6/4/93	BY: NO.

PLAN OF WATER & SEWER MAINS

SCALE: 1" = 50'

600 SCALE MAP NO. 37

BLOCK 5 10 & 15

RICE PROPERTY
 SECTION 1, AREA 1
 LOTS 1 THRU 44
 ELECTION DISTRICT NO. 1

CONTRACT NO. 14-3320-D

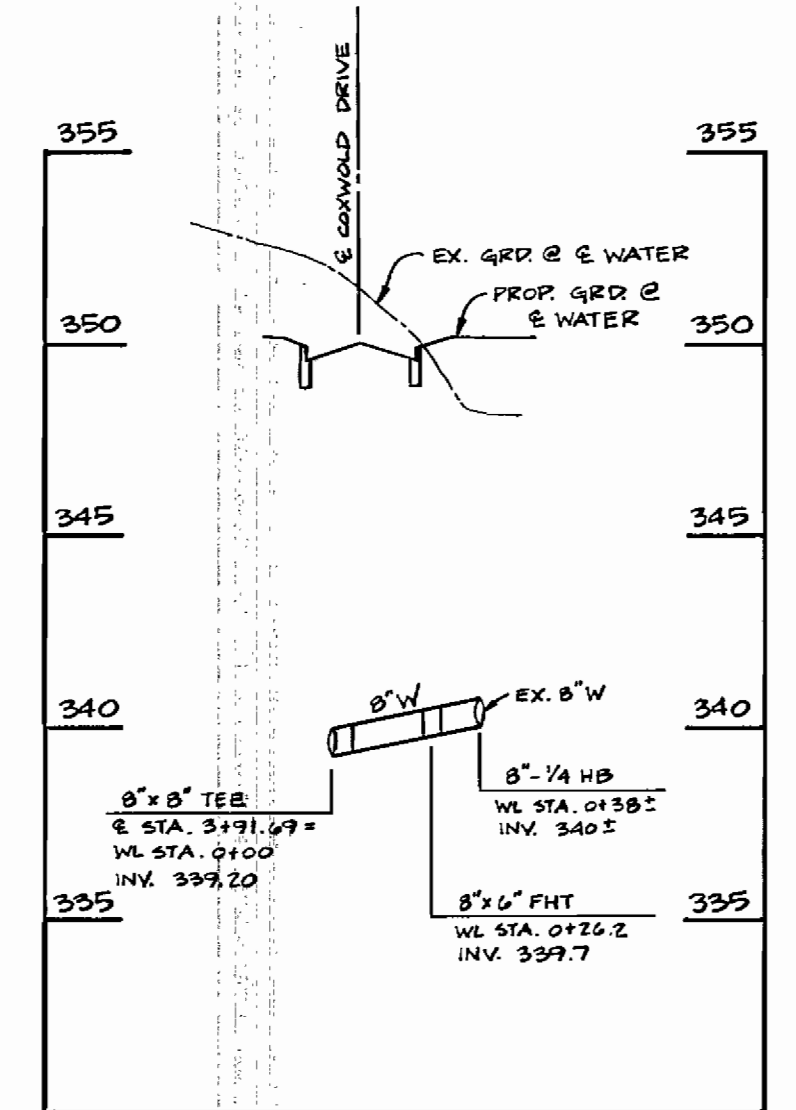
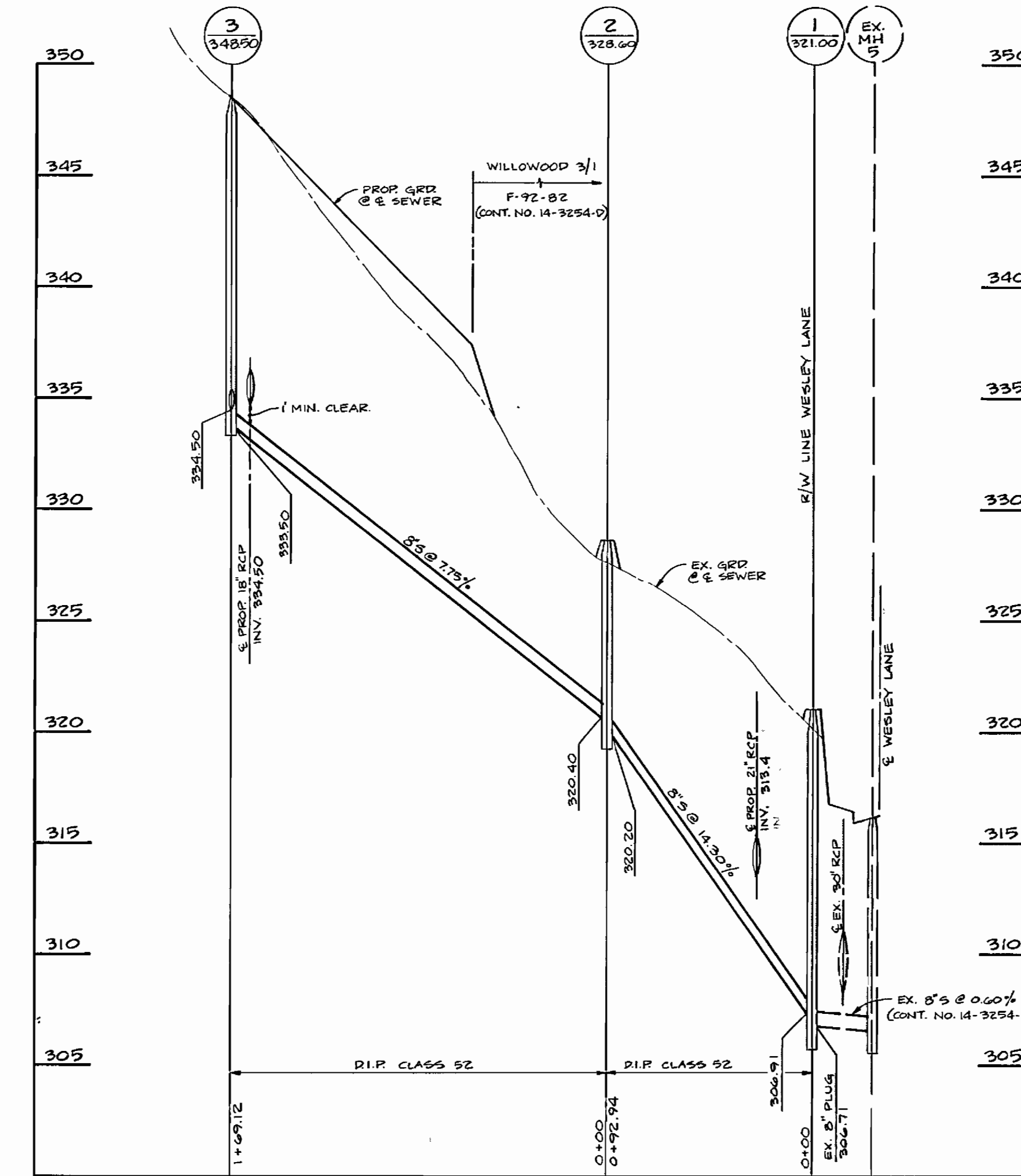
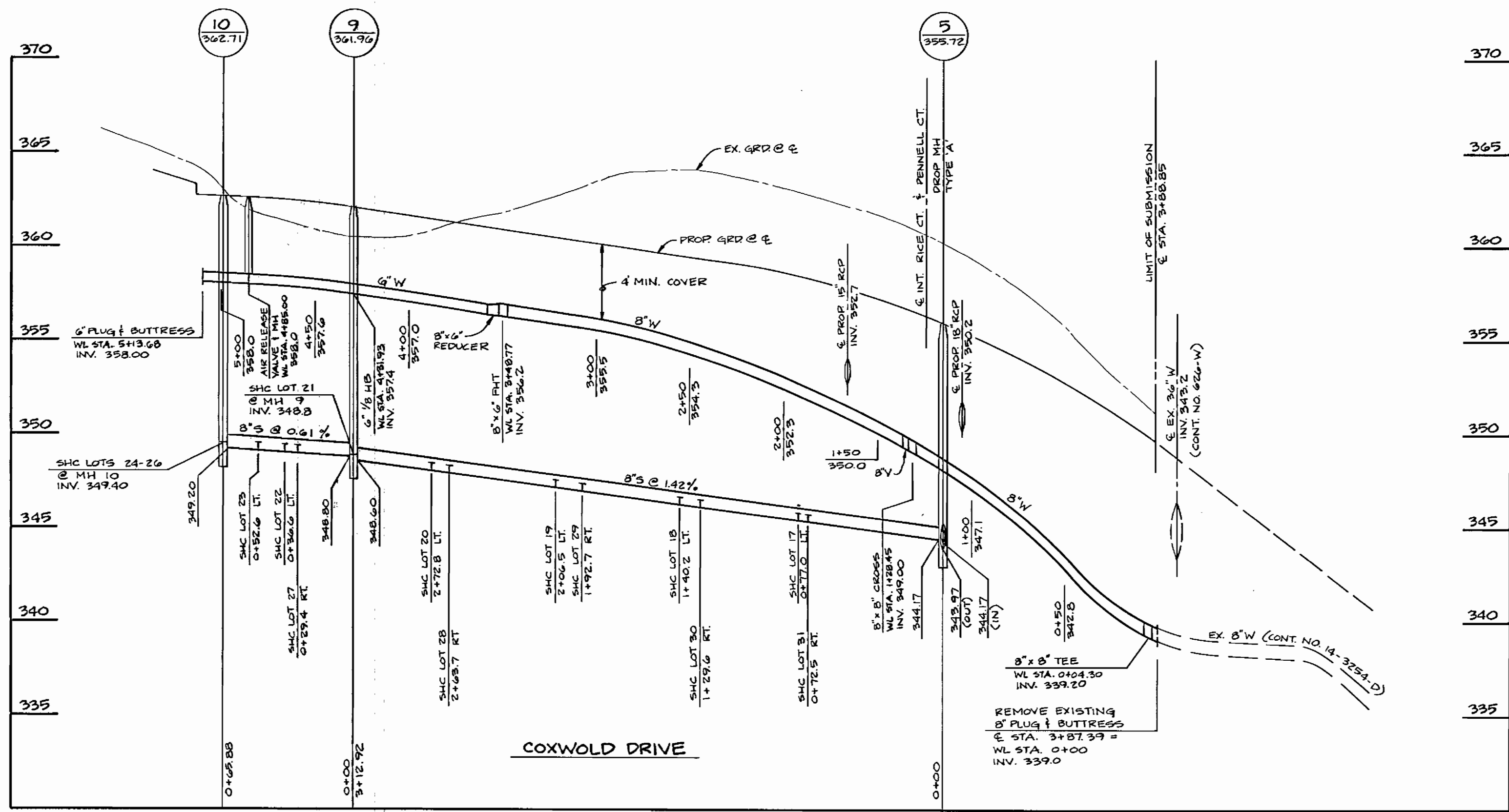
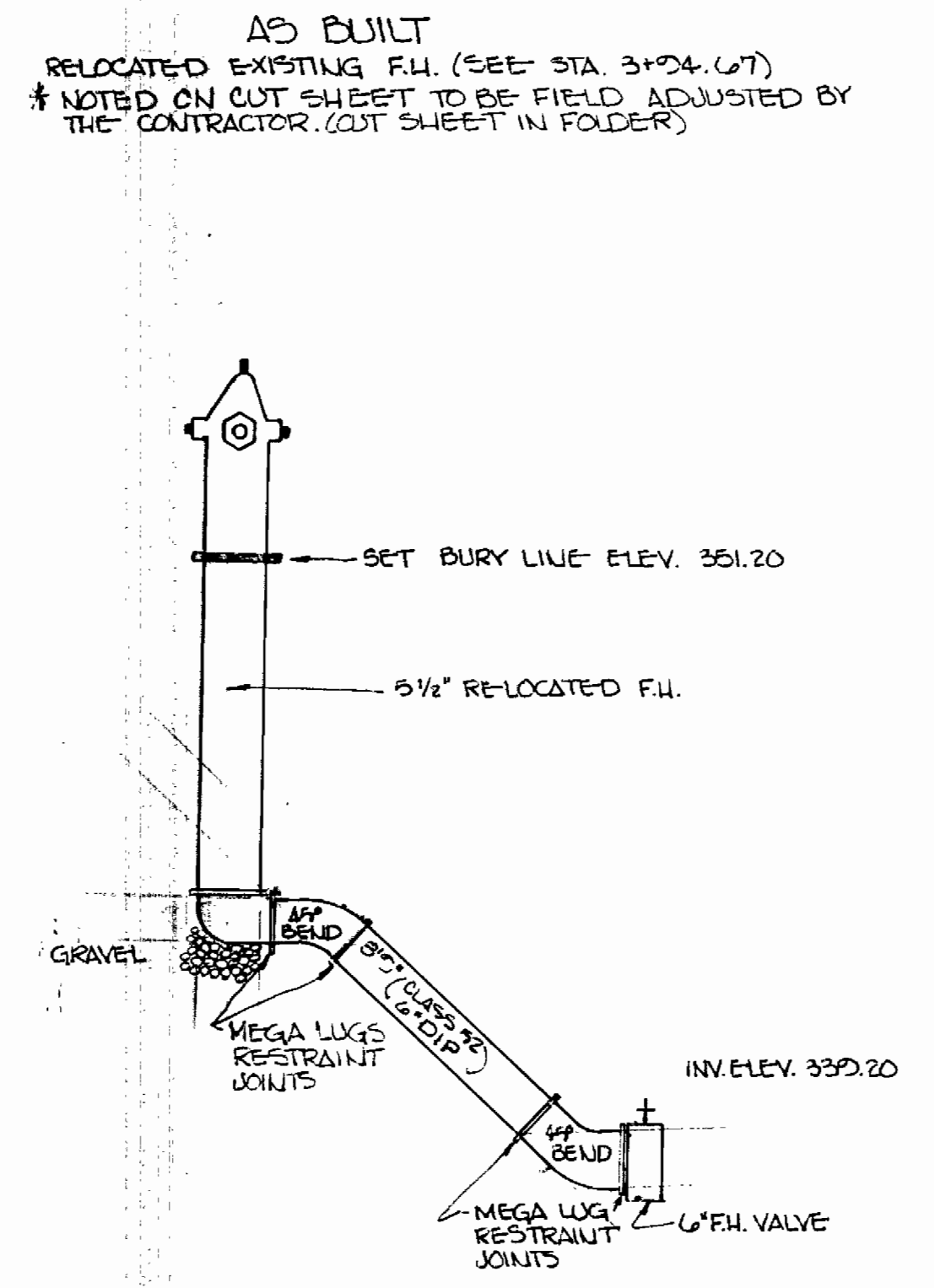
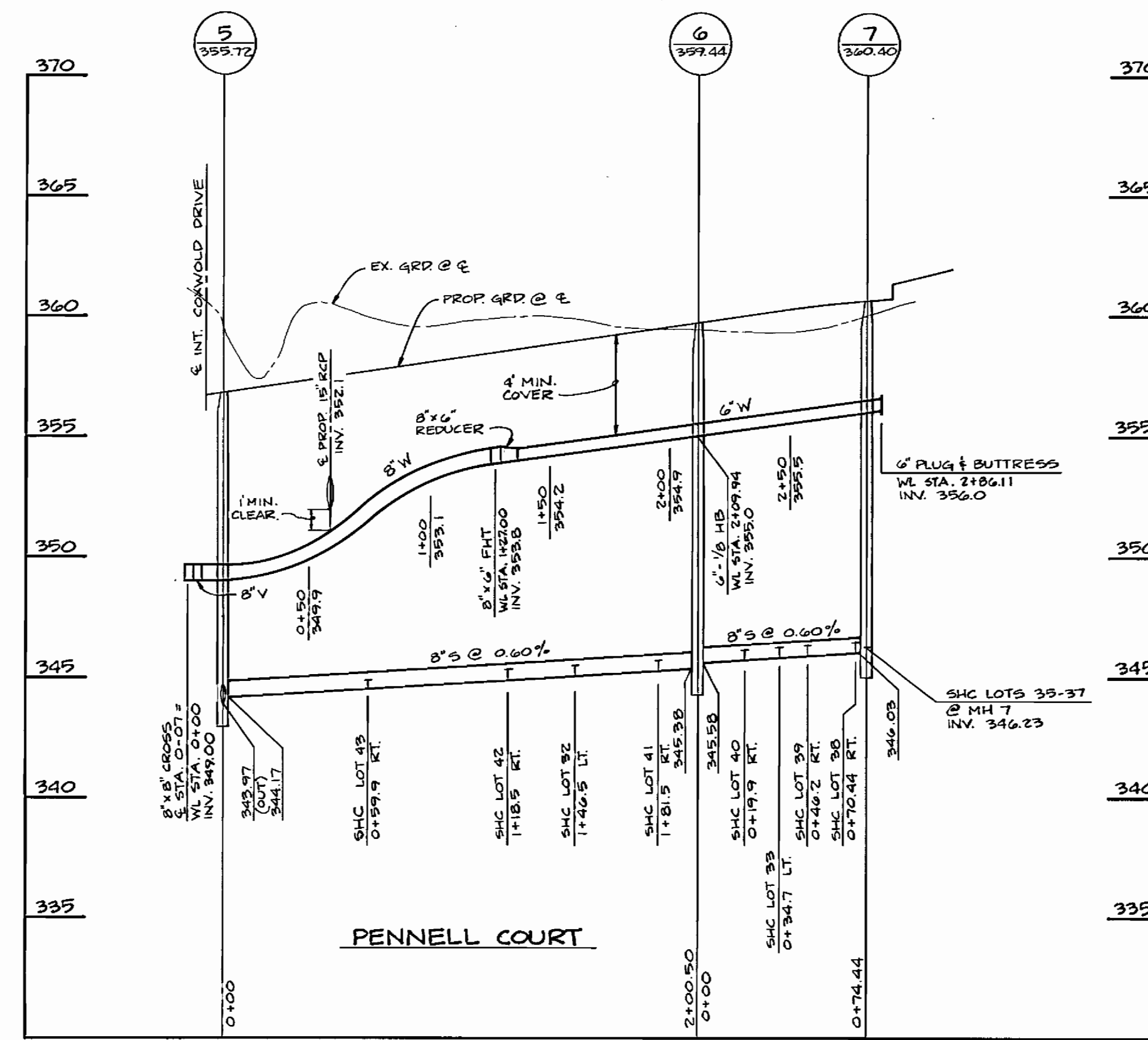
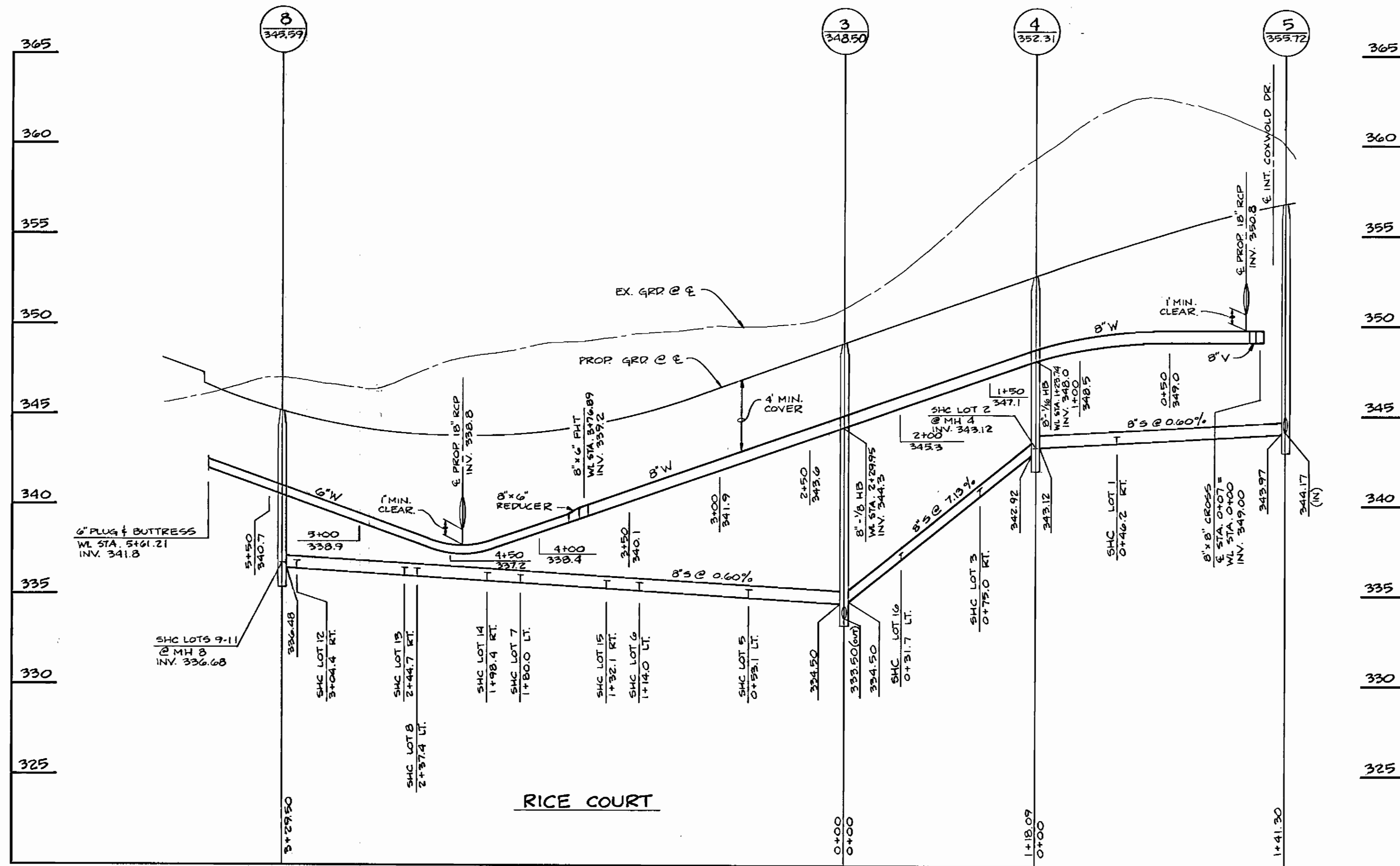
SCALE AS SHOWN

SHEET 1 OF 2

AS-BUILT 1/20/95

AS BUILT 1/20/95

3320 ws/2 RICE Prop. 1/2 lots 1-44



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert M. Binger 4/18/94
DIRECTOR OF PUBLIC WORKS DATE

Robert M. Binger 3-29-94
CHIEF, BUREAU OF UTILITIES DATE

Robert M. Binger 4/18/94
CHIEF, BUREAU OF ENGINEERING DATE

Robert M. Binger 4/18/94
CHIEF, LAND DEVELOPMENT DIVISION DATE

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DES:	DRK				
DRN:	DBT				
CHK:	JME				
DATE:	6/4/93				
	3/23/94	BY	NO.	REVISIONS	DATE

PROFILES OF
WATER & SEWER MAINS

600 SCALE MAP NO. 37

BLOCK5 10 & 16

RICE PROPERTY
SECTION 1, AREA 1
LOTS 1 THRU 44
ELECTION DISTRICT NO. 1
CONTRACT NO. 14-3320-D

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

SHEET
2 OF 2

AS BUILT 1/20/95