

Wastewater Disposal: Patapsco S.T.P.
 Drainage Area: Deep Run
 Type of Buildings: Office
 No. of SHC: 10
 No. of WHC: 12
 No. of Lots: 10 - No. of Units: 10

WATER & SEWER CODE
 County Use
 Water: A04
 Sewer: 2150000 And 2150500

PLAN
 Scale: 1" = 600'

QUANTITIES			
ITEM	BID	AS BUILT	MATERIAL/SUPPLIER
3" Sewer L.F.	4275	3482 L.F.	J.M. PIPE - Belair Road
Sewer Manholes	15	15 EA	ATLANTIC PRECAST
12" Water L.F.	3275	3034 L.F.	Griffin Pipe
8" DIP SEWER		488.5 L.F.	Griffin Pipe
8" Water L.F.	875	590	" "
6" Water L.F.	300	N/A	" "
Fire Hydra. ea.	0	9 EA	MULLER - Belair Road
12" Valve ea.	5	5 EA	" "
8" Valve ea.	10	10 EA	" "
Air Release Mhaa	1	1 EA	BALTO. BRICK

- 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" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USED 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED 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:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS AND ELECTRIC CO. - CONTRACTOR SERVICES 850-4620
 - BALTIMORE GAS AND ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 859-9004
 - BALTIMORE GAS AND ELECTRIC CO. - TROUBLE SHOOTING - 298-9001
 - MISS UTILITY - 1 - 559-0100
 - COLONIAL PIPELINE CO. - 795-1390/G&P TELEPHONE CO. - 1-800-257-7777
 - BUREAU OF UTILITIES HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO A 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.
- 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 STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 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 SETTINGS. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S. SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.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 FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL 65.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- NO BUILDING PERMITS WILL BE ISSUED FOR BUILDING CONSTRUCTION WITHIN THIS SUBDIVISION UNTIL SUCH TIME AS ANNE ARUNDEL COUNTY, MARYLAND HAS EXECUTED AN AGREEMENT WITH THE DEVELOPER TO CONSTRUCT THE ROADWAY LEADING TO THIS DEVELOPMENT.

CONTRACT NO. 14-1707-D

PARKWAY CENTER - ARUNDEL TRACT

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

James W. Helm 12-17-87
 Signature Date
 US SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.

APPROVED: *John R. Roberts* 12/17/87
 HOWARD SCD Date

Sediment Control Measures for this Contract will be in accordance with section 219 of the Standard Specifications and Road Construction Drawings. (F-88-55)

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert M. Beiner 12-18-87
 DIRECTOR OF PUBLIC WORKS - DATE
 CHIEF - BUREAU OF UTILITIES - DATE

John M. ... 12-18-87
 CHIEF - BUREAU OF ENGINEERING - DATE
 CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

Kenneth J. McLeod

DES: J.H.B.
 DRN:
 CHK:
 DATE: 9/23/87

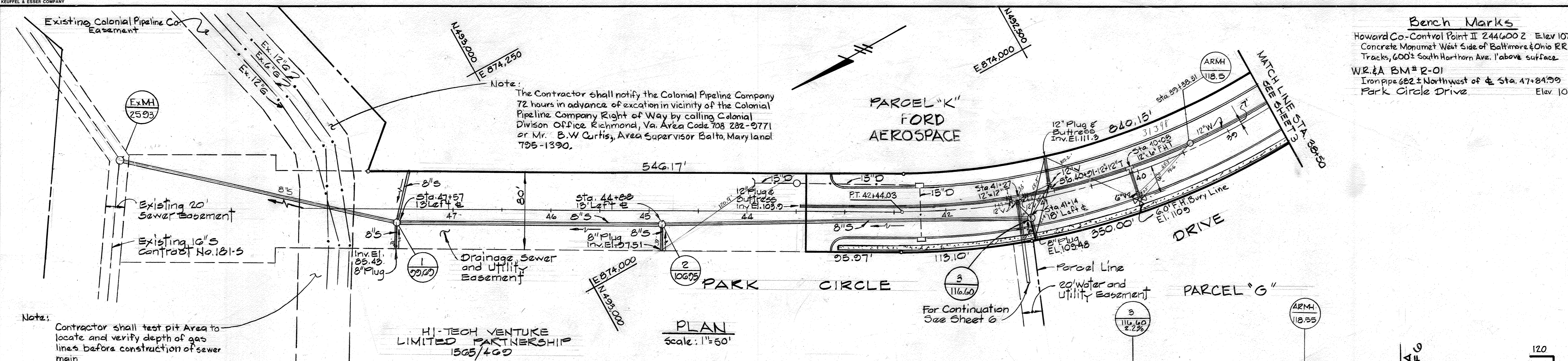
COVER SHEET

600' SCALE MAP NO. 38 & 44 BLOCK NO.

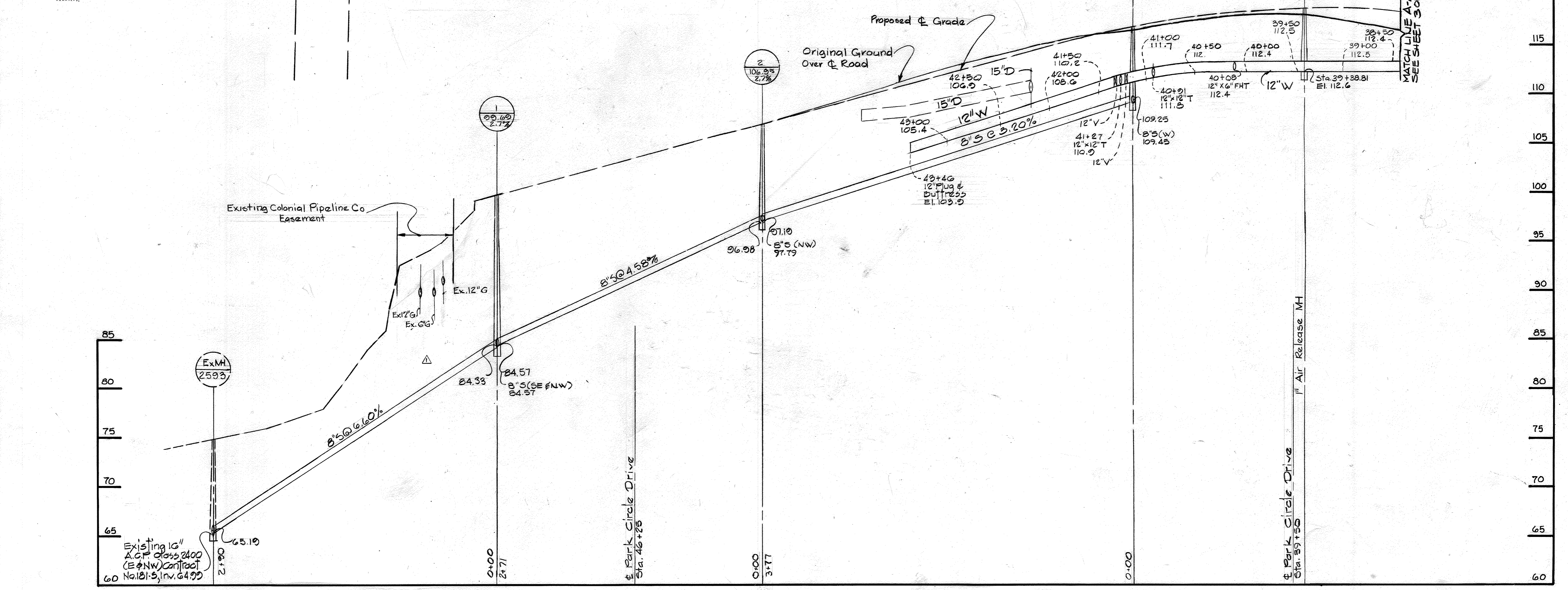
PARKWAY CENTER - ARUNDEL TRACT
 ELECTION DISTRICT NO. 1
 CONTRACT NO. 14-1707-D

SCALE AS SHOWN
 SHEET 1 OF 7

Bench Marks
 Howard Co.-Control Point II 244600 Z Elev 107.588
 Concrete Monument West Side of Baltimore & Ohio RR
 Tracks, 600'± South Harmon Ave. 1' above surface.
 W.R. & A BM# R-01
 Iron pipe 602± Northwest of Sta. 47+84.99
 Park Circle Drive Elev 104.64



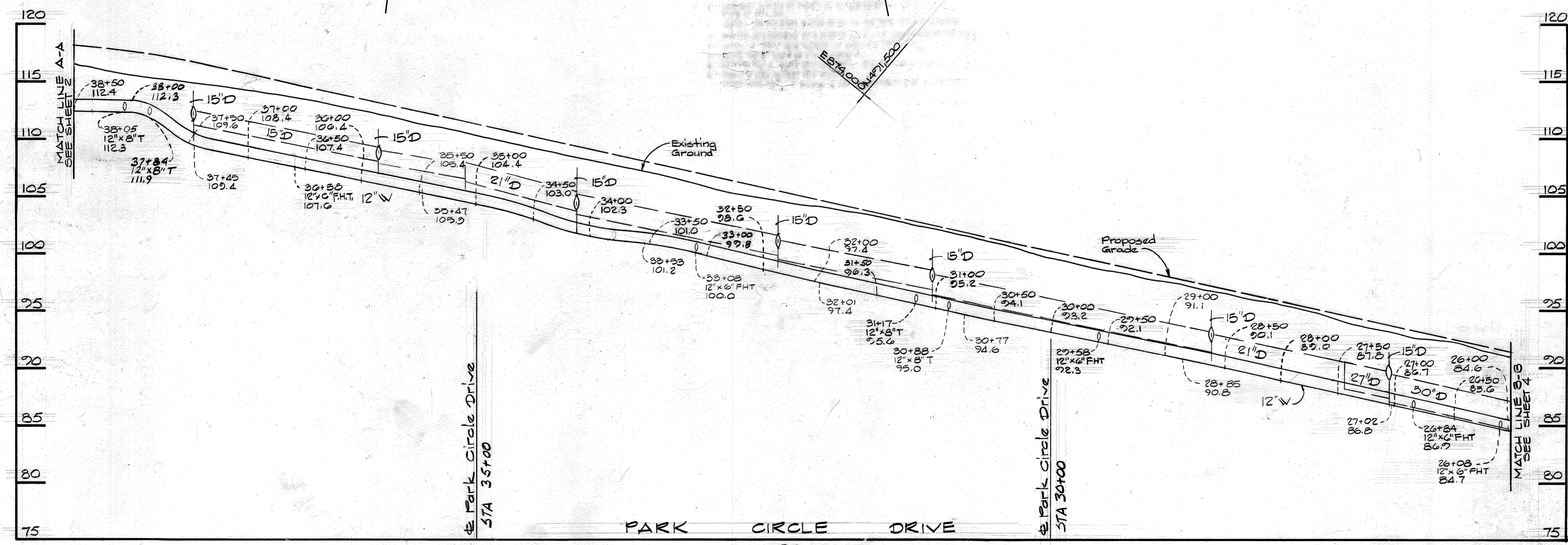
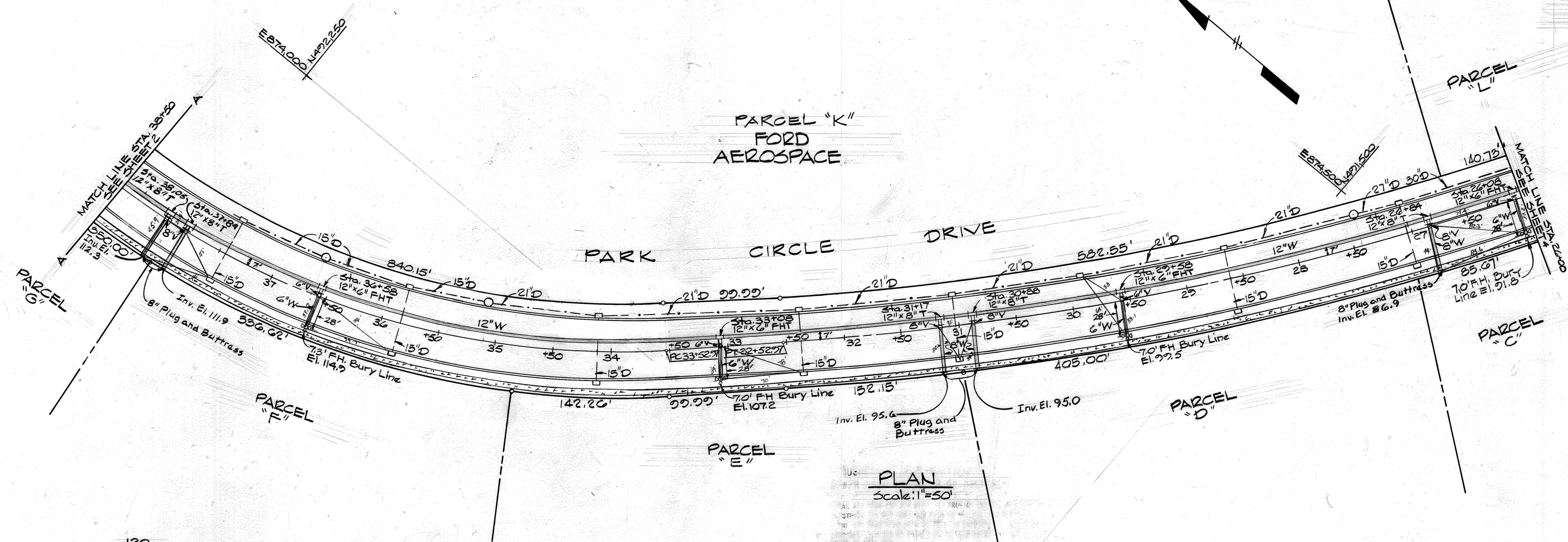
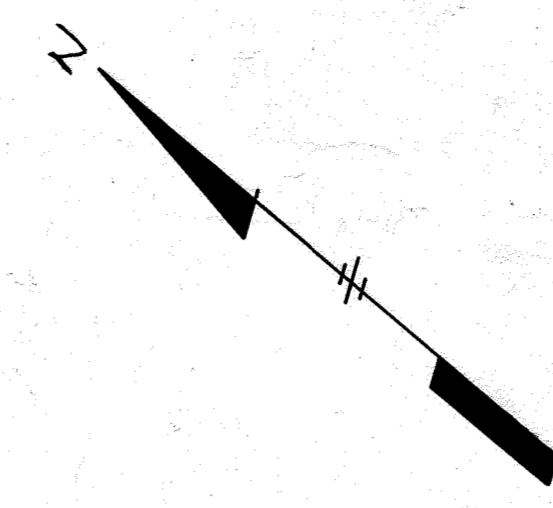
PLAN
 Scale: 1"=50'



PROFILE
 Scale: Horizontal 1"=50'
 Vertical 1"=5'

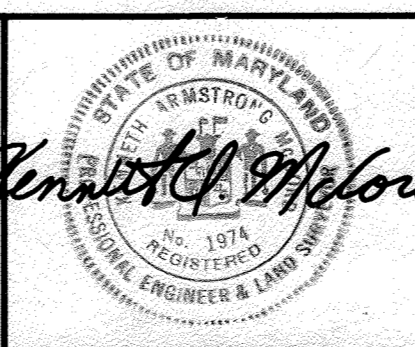
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James J. ...</i> DIRECTOR OF PUBLIC WORKS - DATE 12-18-87 <i>Ruth ...</i> CHIEF - BUREAU OF UTILITIES - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND <i>Hennrich ...</i>		DES: J.H. 13 DR: D.M.R. CHK: DATE 9/10/87		PLAN & PROFILE OF WATER & SEWER MAINS J.W.B. Δ Field Located Gas Mains, Revised Prop. Grade over Gas 4/12/88 BY NO. REVISION DATE		PARKWAY CENTER - ARUNDEL TRACT ELECTION DISTRICT NO. 1 CONTRACT NO. 14-1707-D ASBUILT 10/2/87 KMW		SCALE AS SHOWN SHEET 2 OF 7
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BENCH MARKS
 Howard County - Control Point #2446001 El.112.04
 Concrete Monument Between Main Tracks
 B&O Railroad and Spur Line to Parkway
 Industrial Center 3' Below Surface.
 WPA BM # 9500 El.103.16
 Iron Pipe West of Parkway Industrial Center
 Spur Line and 881' Left of Sta. 36+52.2
 Park Circle Drive.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE 12/21/87
 Chief - Bureau of Engineering - DATE 12/21/87
 Chief - Bureau of Utilities - DATE 12-18-87
 Chief - Land Development Division - DATE 12/21/87

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND



DES: J.H.B.
 J.E.B.
 CHK:
 DATE: 9/2/87
 BY NO. REVISION DATE

PLAN & PROFILE OF
 WATER & SEWER MAINS
 600' SCALE MAP NO. 38 BLOCK NO.

PARKWAY CENTER - ARUNDEL TRACT
 ELECTION DISTRICT NO. 1
 CONTRACT NO. 14-1707-D

SCALE AS SHOWN
 SHEET 3 OF 7

LEGEND
 Existing Tree Line
 Proposed Tree Line
 Perimeter Dike
 Silt Fence
 Drainage Area

CORPORATE CENTER DRIVE

BENCH MARK

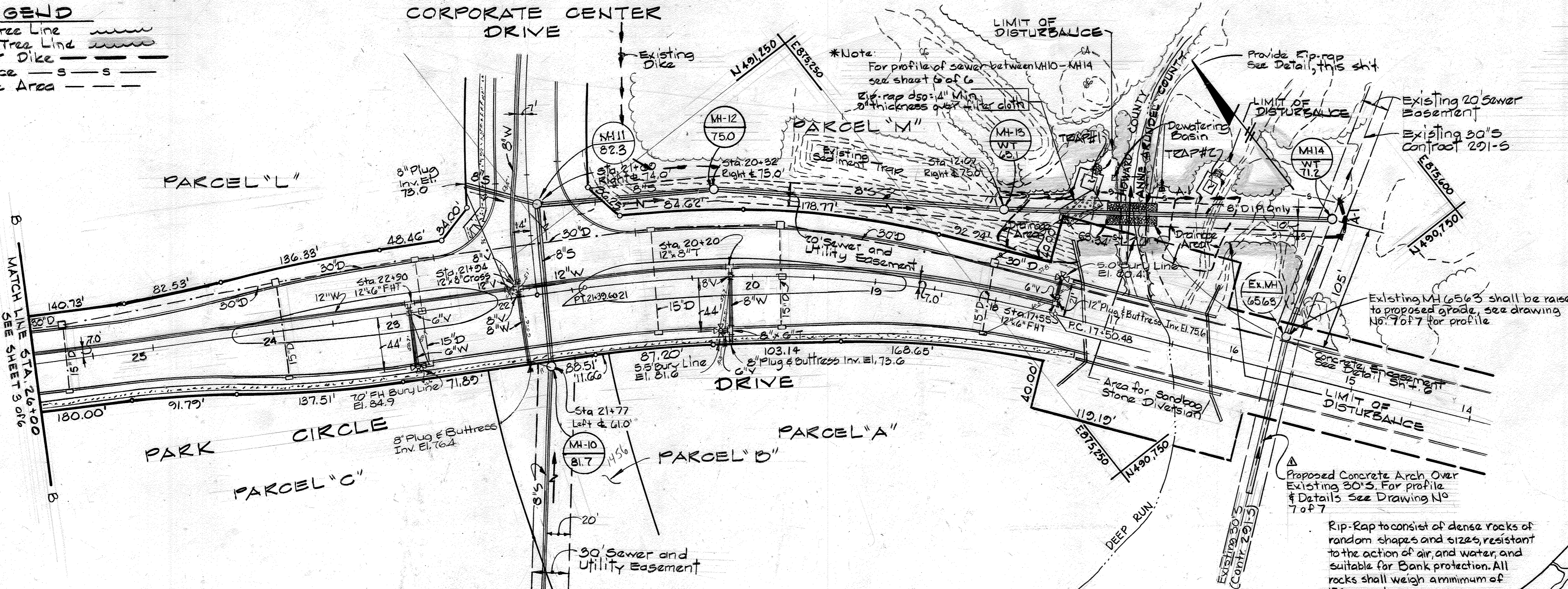
W.R.#A R-12
 Iron Pipe 26" North East of &
 Sta 27+10± Park Circle Drive
 W.R.#A R-13
 Iron Pipe 284" South West of &
 Sta 26+10± Park Circle Drive

**TRAP #1
STONE OUTLET SEDIMENT TRAP**

Drainage Area = .09 Ac
 Storage Required = 162 cu ft
 Storage Provided = 175 cu ft
 Bottom Dimension = 11' x 11'
 Depth = 1'0"
 Bottom Elev. = 62.0
 Slopes = 2 Horiz. to 1 Vert.
 Weir Elev. = 63.0
 Top of Embankment = 69.0
 Weir Length = 4'0"

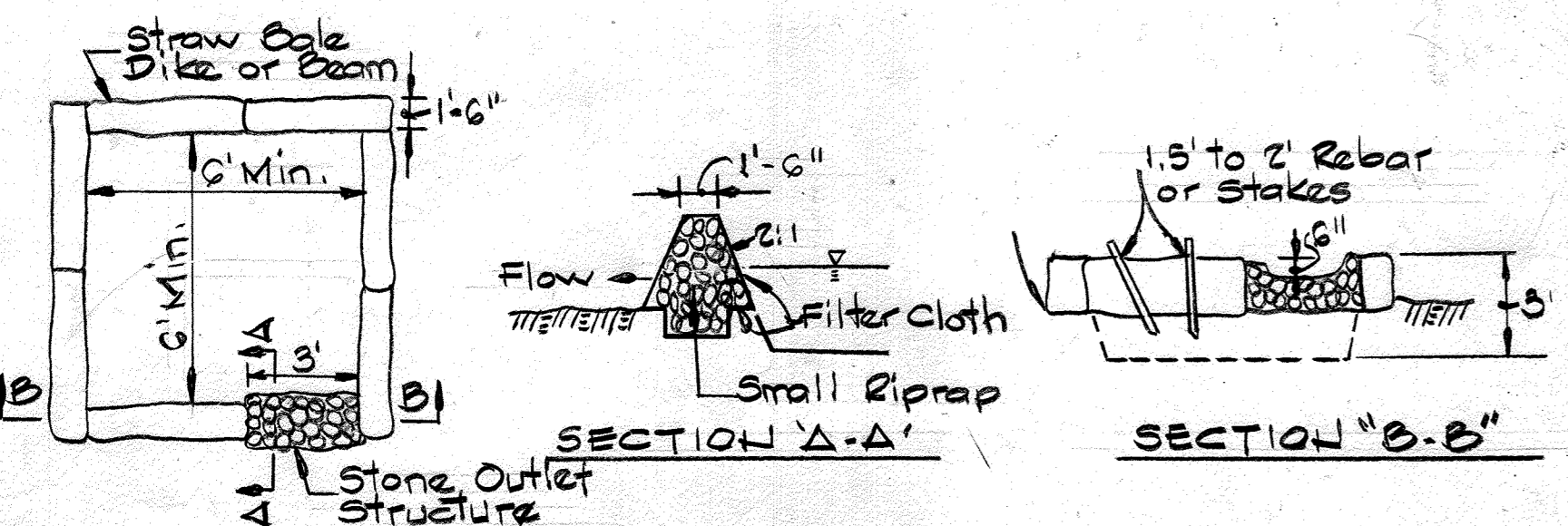
**TRAP #2
STONE OUTLET SEDIMENT TRAP**

Drainage Area = .06 Ac
 Storage Required = 108 cu ft
 Storage Provided = 120 cu ft
 Bottom Dimension = 9'0" x 9'0"
 Depth = 1'6"
 Bottom Elev. = 62.0
 Slopes = 2 Horiz. to 1 Vert.
 Weir Elev. = 63.0
 Top of Embankment = 64.0
 Weir Length = 3'



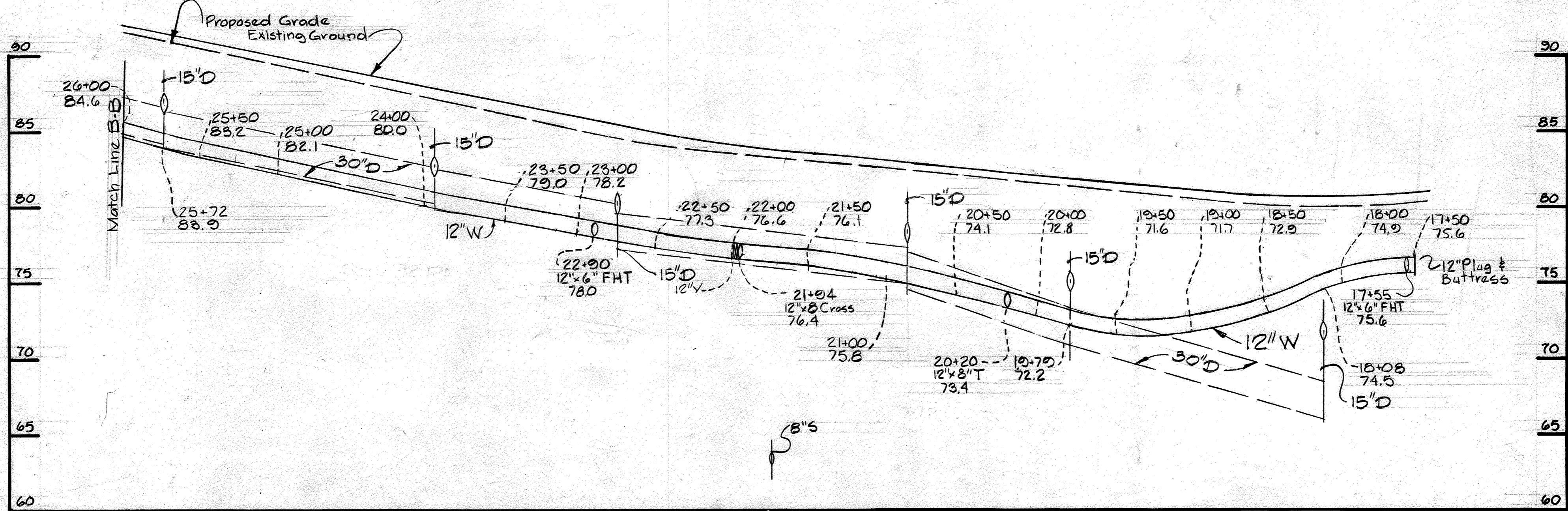
SEQUENCE OF CONSTRUCTION FOR SEWER MAIN CROSSING OF DEEP RUN

1. CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL DEVICES.
2. CONSTRUCT ALL SEDIMENT AND EROSION CONTROL DEVICES.
3. CLEAR AND GRUB REMAINDER OF AREA TO CONSTRUCT 8" SEWER MAIN.
4. CONSTRUCT DEWATERING BASINS ON THE NORTHWEST AND SOUTHEAST SIDES OF DEEP RUN.
5. INSTALL SANDBAG/STONE DIVERSION ON THE NORTHWEST SIDE OF DEEP RUN.
6. DEWATER AREA ENCLOSED BY DIVERSION AND FILTER THROUGH DEWATERING BASIN.
7. INSTALL 8" SEWER MAIN THROUGH THE DEWATERED AREA.
8. ENCASE THE 8" SEWER MAIN WITH CONCRETE.
9. BACKFILL THE 8" SEWER MAIN AND INSTALL RIP RAP STREAM BEDDING.
10. REMOVE DIVERSION FROM DEEP RUN.
11. REPORT PROCEDURES 5 THROUGH 10 FOR THE SOUTHEAST SIDE OF DEEP RUN.

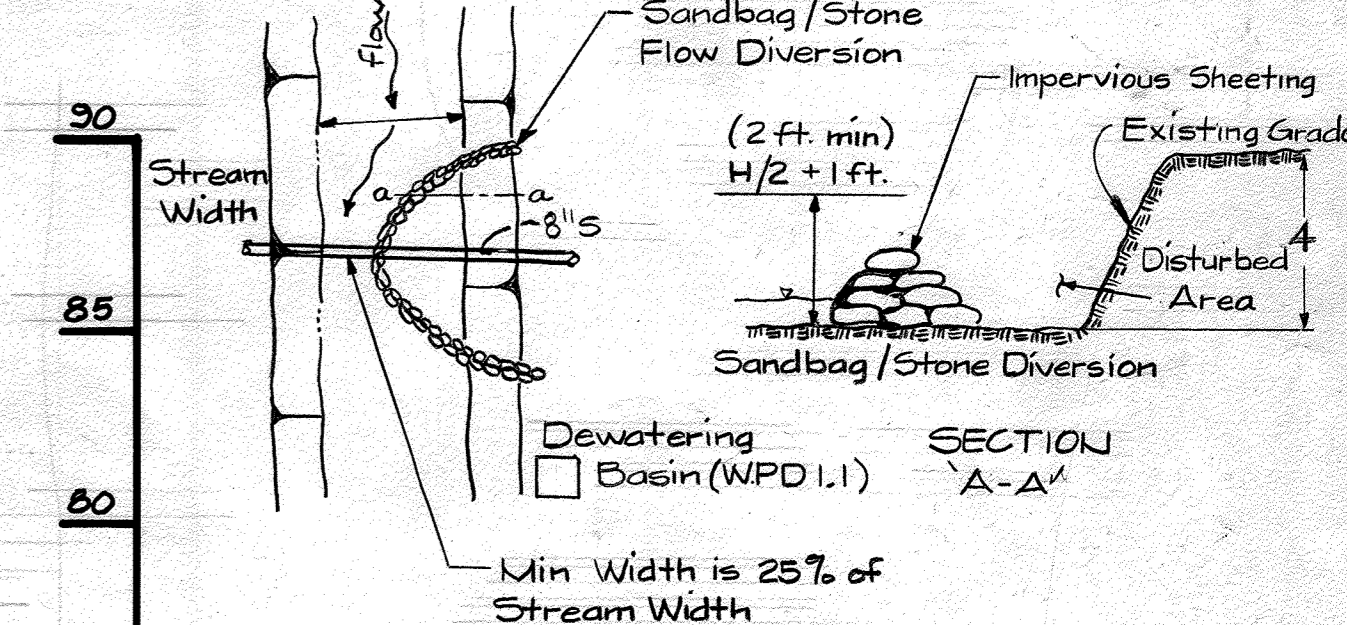


PLAN VIEW

1. DESCRIPTION
 THE WORK SHALL CONSIST OF THE CONSTRUCTION OF A DEWATERING BASIN FOR THE PURPOSE OF RECEIVING SEDIMENT-LADEN WATER PUMPED FROM A CONSTRUCTION SITE TO ALLOW FILTRATION BEFORE THE WATER RE-ENTERS THE WATERWAY.
2. MATERIAL SPECIFICATIONS
 1. RIPRAP: RIPRAP SHALL CONSIST OF 4-8 INCH WASHED STONE OR GRAVEL.
 2. FILTER FABRIC: THE FILTER CLOTH SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARDS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS, NITRO-CARBONS, ALKALIS, AND NOT RESISTANT TO 10% STONE (ASHTO 57) MAY BE USED ON THE INNER-FACE FOR FILTERING INSTEAD OF FABRIC.
 3. STRAWBALES: STRAWBALES SHALL MEET THE CRITERIA AS SPECIFIED IN THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. CONSTRUCTION REQUIREMENTS
 1. THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS THE FIRST ORDER OF BUSINESS.
 2. EXCAVATED MATERIALS SHALL BE STORED SUCH THAT SEDIMENTS ARE PREVENTED FROM ENTERING THE WATERWAY; I.E., SEDIMENT PERIMETER CONTROLS MAY BE NECESSARY.
 3. EXCAVATED SUBSOIL AND TOPSOIL SHALL BE KEPT SEPARATE AND REPLACED IN THEIR NATURAL ORDER.
 4. ANY DEWATERING OF THE CONSTRUCTION AREA SHALL BE FILTERED THROUGH A DEWATERING BASIN PRIOR TO ENTERING THE WATERWAY.
 5. THE DEWATERING BASIN SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 3 FEET.
 6. ONCE THE DEWATERING BASIN BECOMES FILLED TO 1/2 OF THE EXCAVATED DEPTH, ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A SCD APPROVED DISPOSAL AREA OUTSIDE THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS BY THE WRA.
 7. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL. ALL GROUND CONTOURS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE ADMINISTRATION.

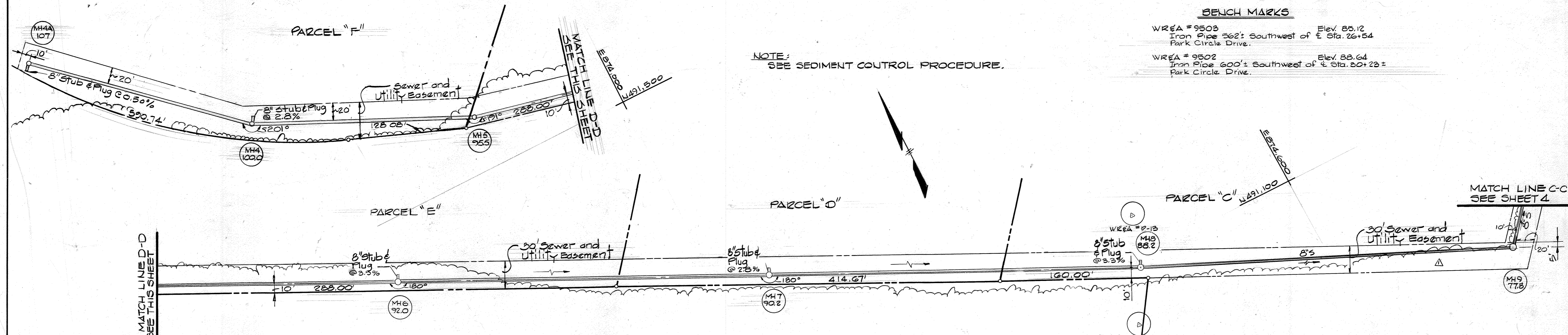


**Rip-Rap Detail
Scale 3/8" = 1'-0"**

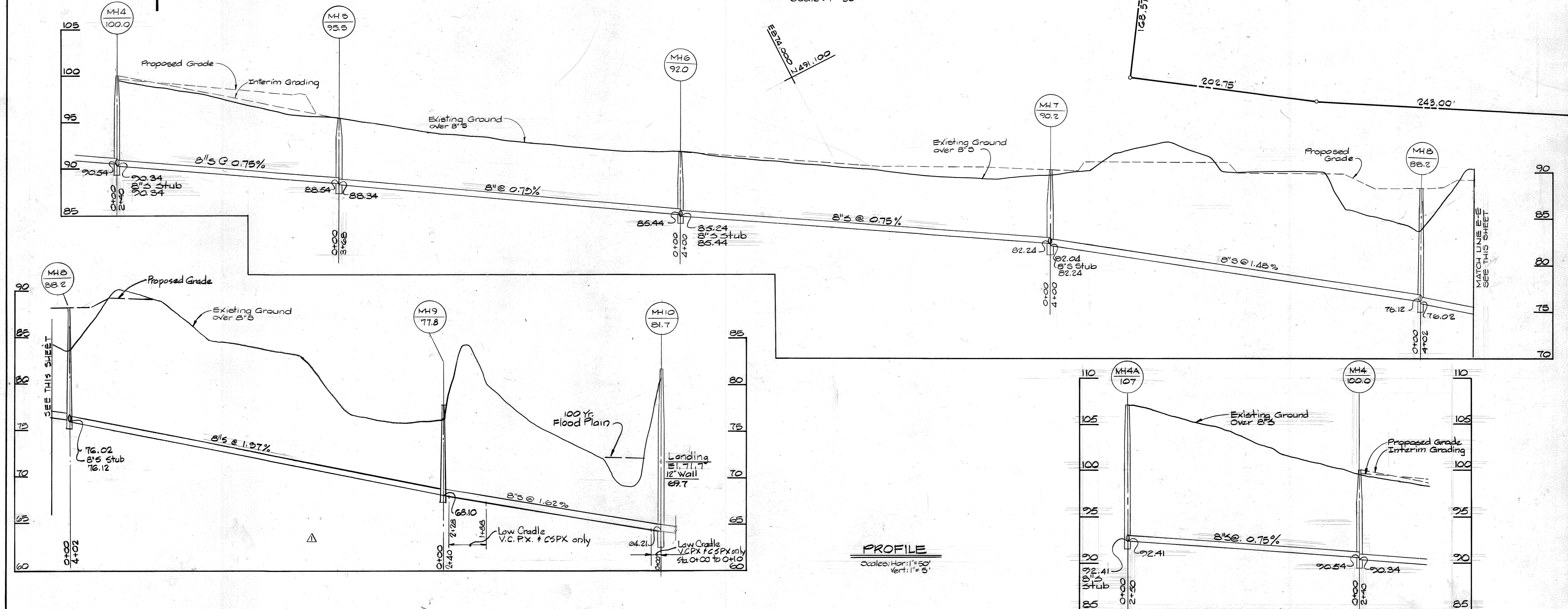


1. DESCRIPTION
 THE WORK SHALL CONSIST OF INSTALLING FLOW DIVERSIONS FOR THE PURPOSE OF EROSION CONTROL WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL SUCH AS BANK STABILIZATION OR BRIDGE ABUTMENT CONSTRUCTION.
2. MATERIAL SPECIFICATIONS
 1. SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRA-VIOLET RADIATION, TEARING AND PUNCTURE AND KEPT TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E., SAND, FINE GRAVEL, ETC.).
 2. STONE: STONE SHALL BE WASHED AND HAVE A MINIMUM DIAMETER OF 6 INCHES.
 3. SHEETING: SHEETING SHALL CONSIST OF POLYETHYLENE OR OTHER MATERIAL WHICH IS IMPERVIOUS AND RESISTANT TO PUNCTURE AND TEARING.
3. CONSTRUCTION REQUIREMENTS
 1. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
 2. THE DIVERSION STRUCTURE SHALL BE INSTALLED FROM UPSTREAM TO DOWNSTREAM.
 3. THE HEIGHT OF THE DIVERSION STRUCTURE SHALL BE ONE HALF THE DISTANCE FROM STREAM BED TO STREAM BANK PLUS ONE FOOT, AS INDICATED ON THE CROSS-SECTION VIEW.
 4. ALL EXCAVATED MATERIALS SHALL BE DISPOSED OF IN A SCD APPROVED DISPOSAL AREA OUTSIDE THE 100-YEAR FLOODPLAIN UNLESS OTHERWISE APPROVED ON THE PLANS BY THE WRA.
 5. ALL DEWATERING OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A DEWATERING BASIN PRIOR TO RE-ENTERING THE STREAM.
 6. SHEETING SHALL BE OVERLAPPED SUCH THAT THE UPSTREAM PORTION COVERS THE DOWNSTREAM PORTION WITH AT LEAST AN 18-INCH OVER LAP.
 7. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief - Bureau of Engineering - DATE Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND		DES: J. H. B D.M.R. CHK: DATE: 12/22/87		PLAN & PROFILE OF WATER & SEWER MAINS 600' SCALE MAP NO. 44 BLOCK NO.		PARKWAY CENTER ARUNDEL TRACT ELECTION DISTRICT NO. 1 CONTRACT NO. 14-1707-D AS-BUILT 10/2/89 KRW		SCALE AS SHOWN SHEET 4 OF 7
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PLAN
Scale: 1"=50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

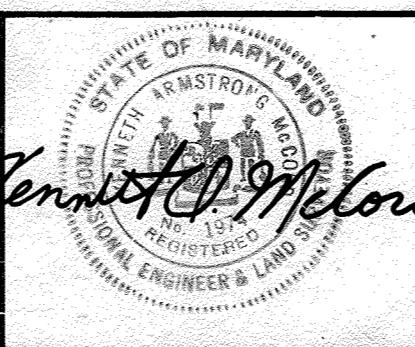
Director of Public Works - DATE
12/1/87

Chief - Bureau of Engineering - DATE
12/1/87

Chief - Bureau of Utilities - DATE
12-18-87

Chief - Land Development Division - DATE
12-14-87

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND

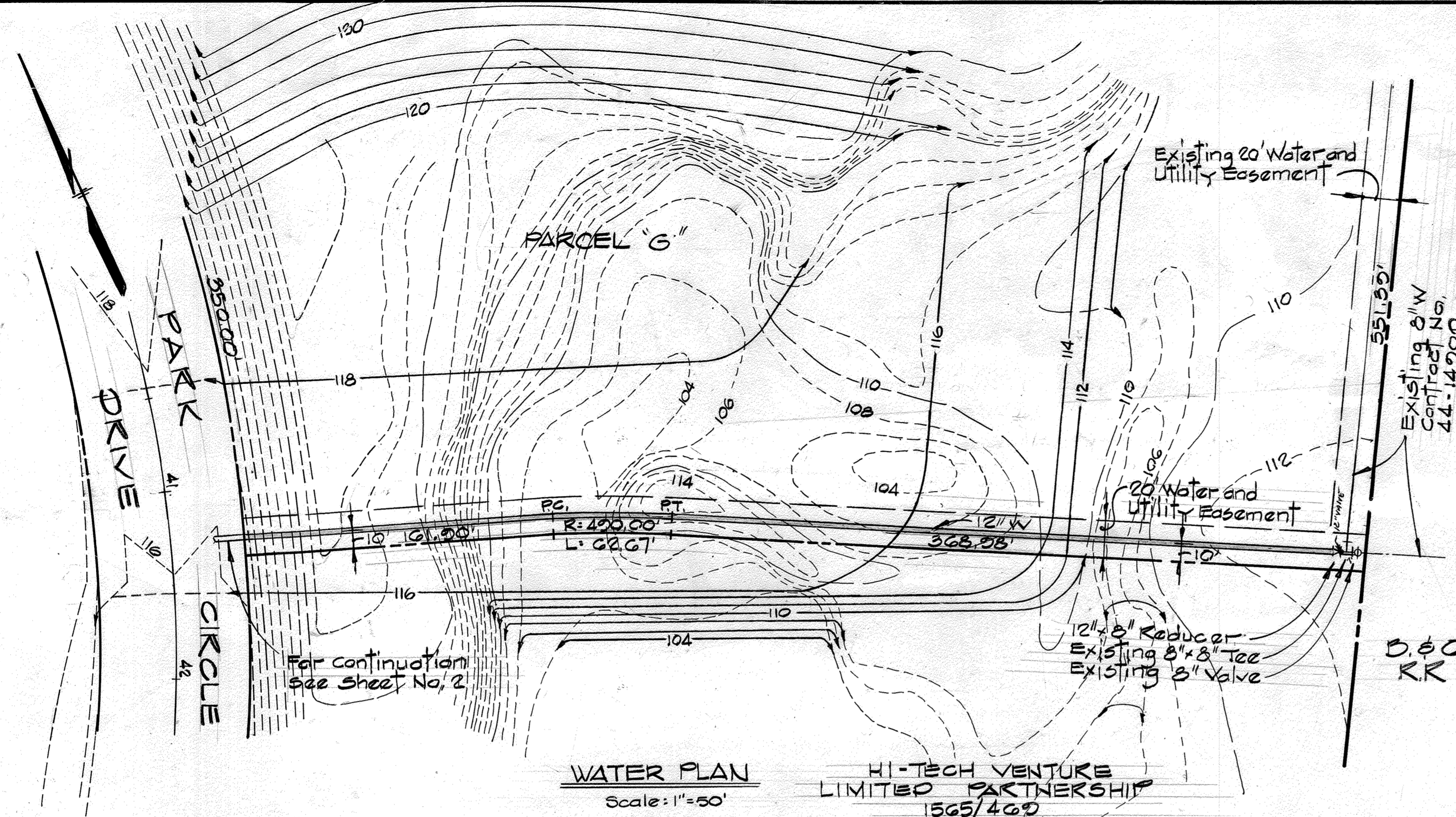


DES: J. H. B.					
DRN: S.A.P.					
CHK:					
DATE: 9/23/87					
BY: JWB	NO. 1	REVISION	Revised 8" s between MH's 10, 9 and 8.	DATE	4/6/88

PLAN & PROFILE OF
WATER & SEWER MAINS

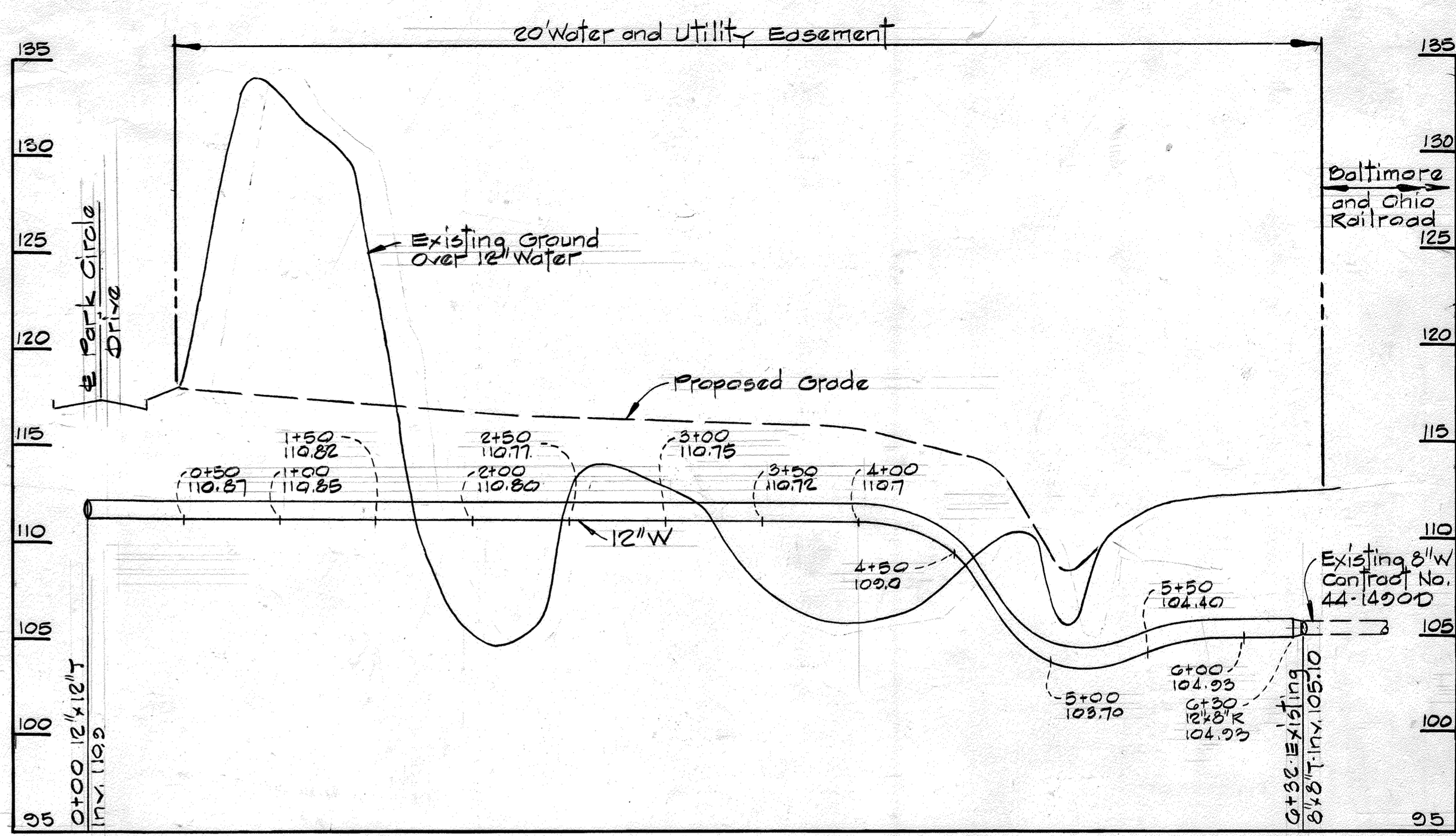
PARKWAY CENTER - ARUNDEL TRACT
ELECTION DISTRICT NO. 1
CONTRACT NO. 14-1707-D

SCALE AS SHOWN
SHEET 5 OF 7

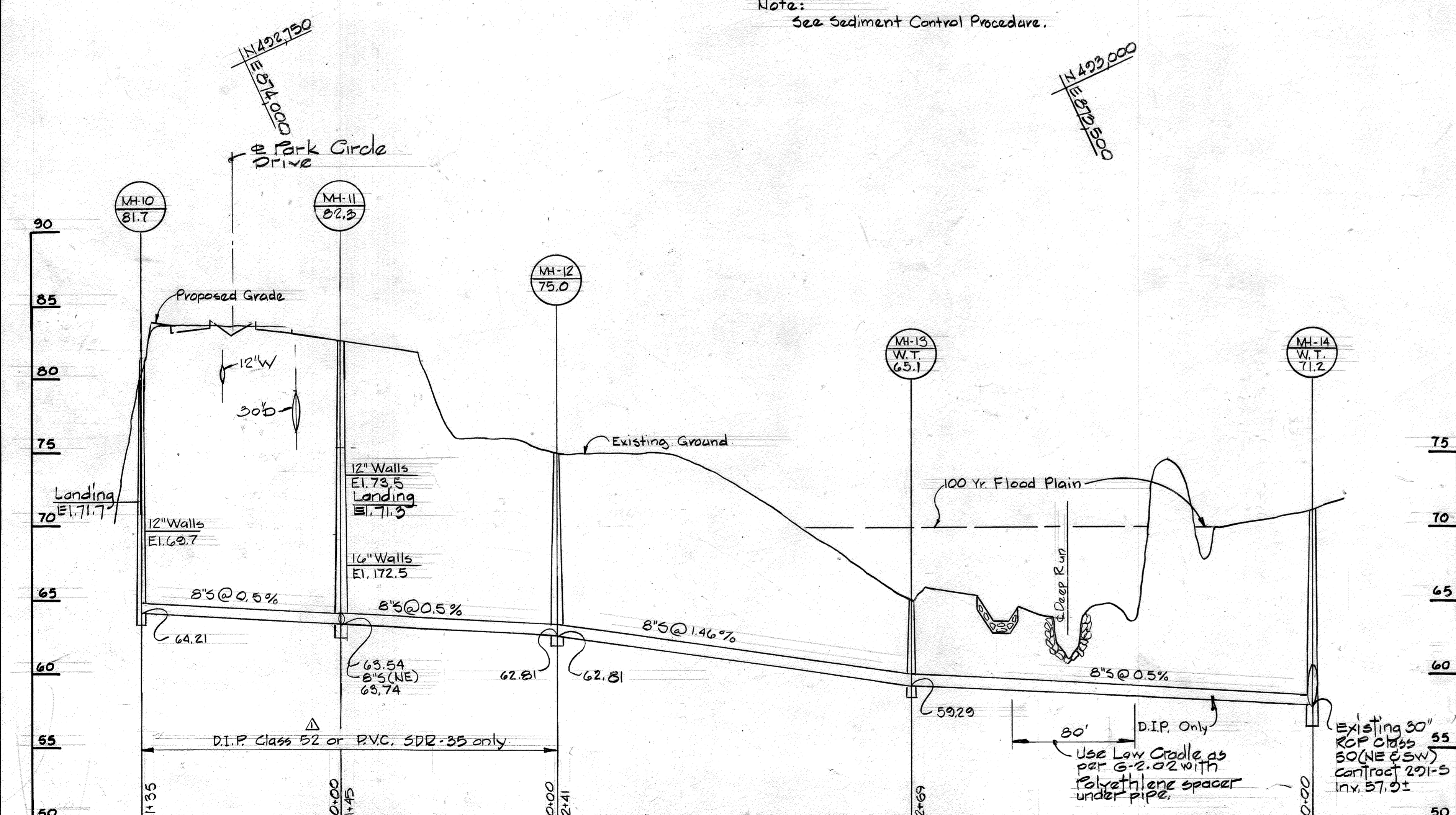


WATER PLAN
Scale: 1"=50'

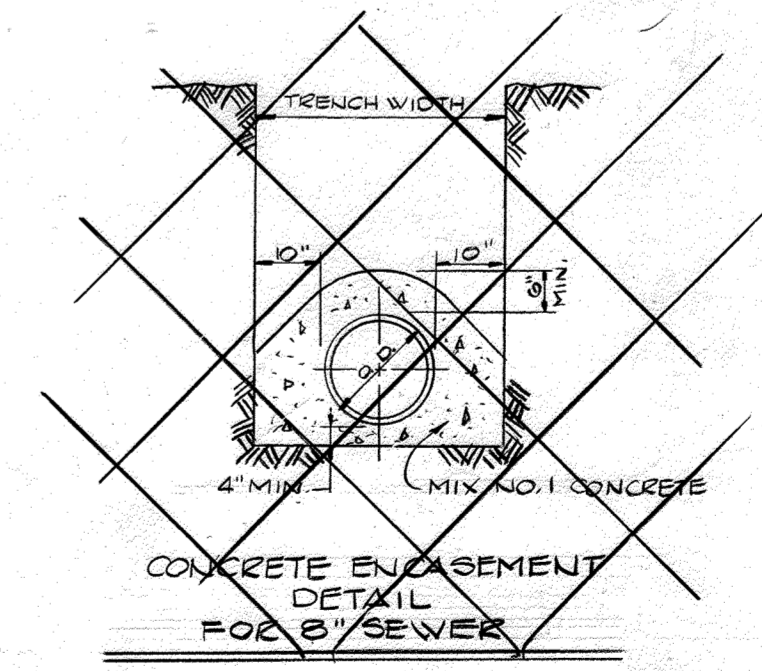
Note:
See Sediment Control Procedure.



WATER PROFILE
Scales: Hor: 1"=50'
Vert: 1"=5'



SEWER PROFILE
Scales: Hor: 1"=50'
Vert: 1"=5'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Davis 12/18/87
DIRECTOR OF PUBLIC WORKS - DATE

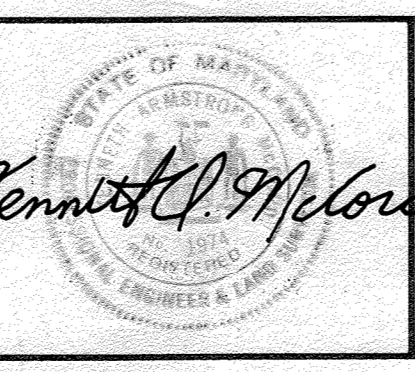
Robert Benis 12-18-87
CHIEF - BUREAU OF UTILITIES - DATE

Michael P. Ryan 12-21-87
CHIEF - BUREAU OF ENGINEERING - DATE

Michael P. Ryan 12-21-87
CHIEF - LAND DEVELOPMENT DIVISION - DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS

2315 ST. PAUL ST.
BALTIMORE, MARYLAND



DES. J.H.B.			
DRY. S.A.P.			
CHK.			
DATE 9/23/87			
BY	NO.	REVISION	DATE
		Revised type of pipe between MH-10, 11 & 12	4/2/88

PLAN & PROFILE OF
WATER & SEWER MAINS

600' SCALE MAP NO. _____ BLOCK NO. _____

PARKWAY CENTER - ARUNDEL TRACT

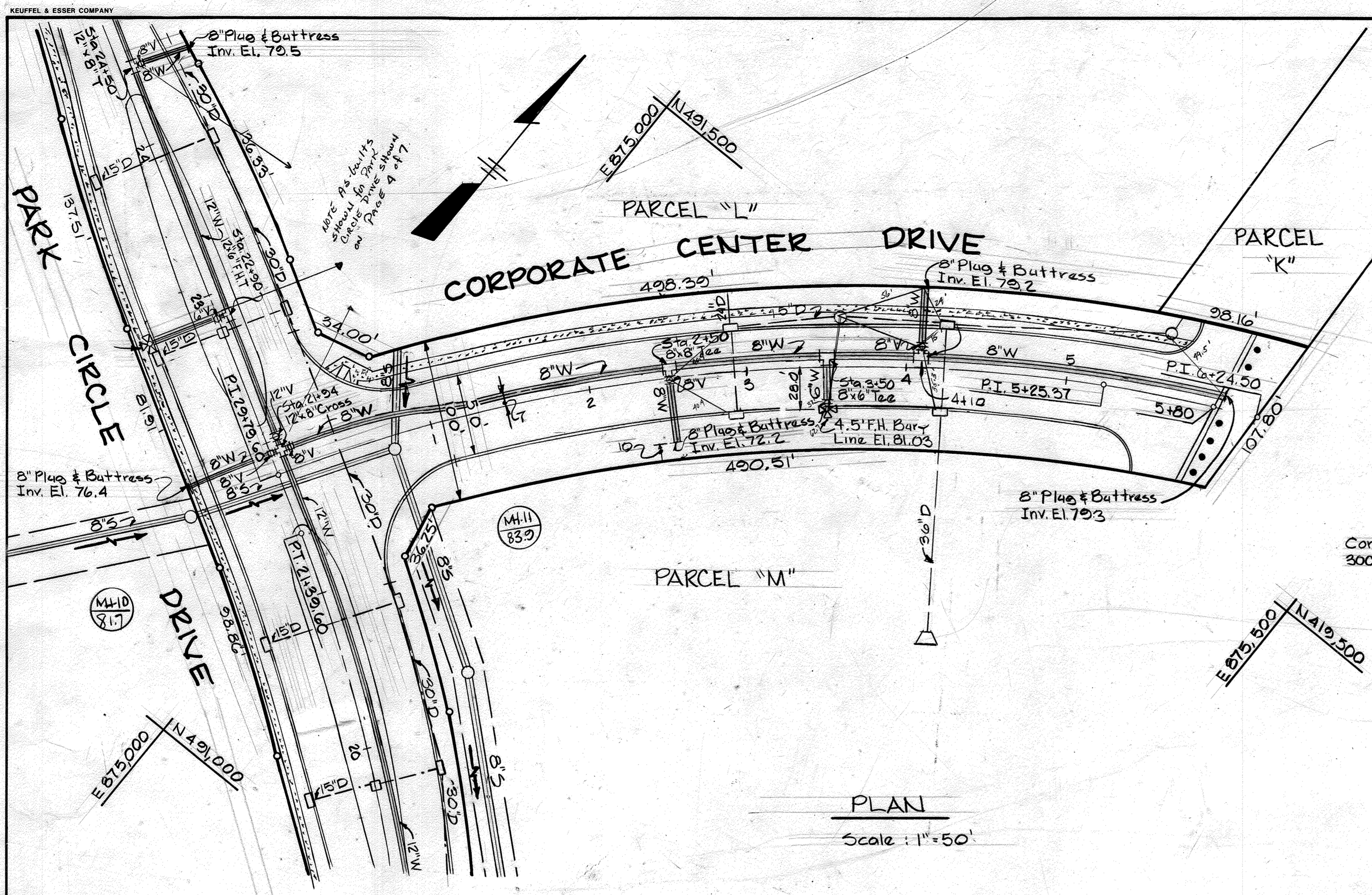
ELECTION DISTRICT NO. 1

CONTRACT NO. 14-1707-D

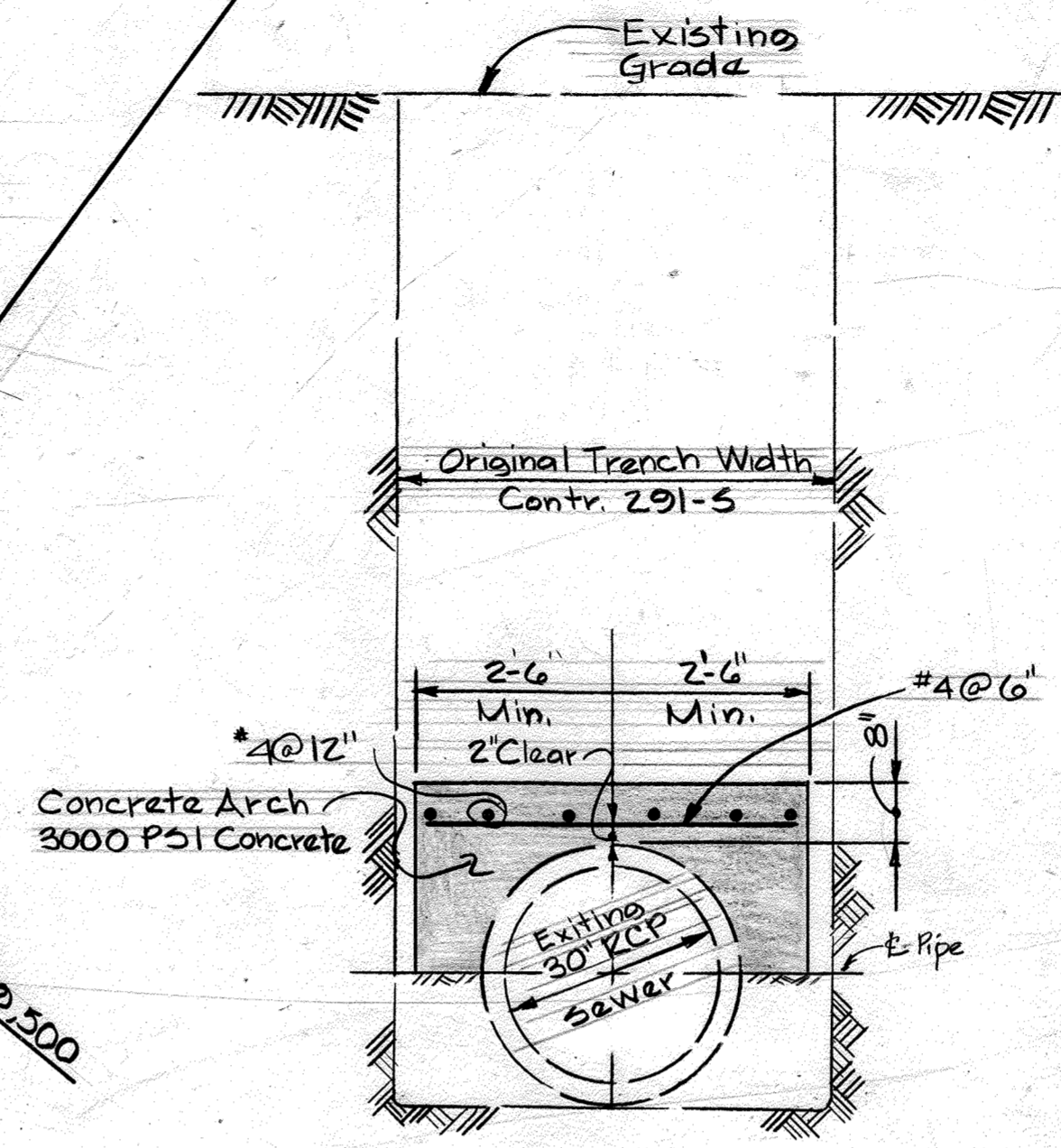
SCALE AS SHOWN

SHEET 6 OF 7

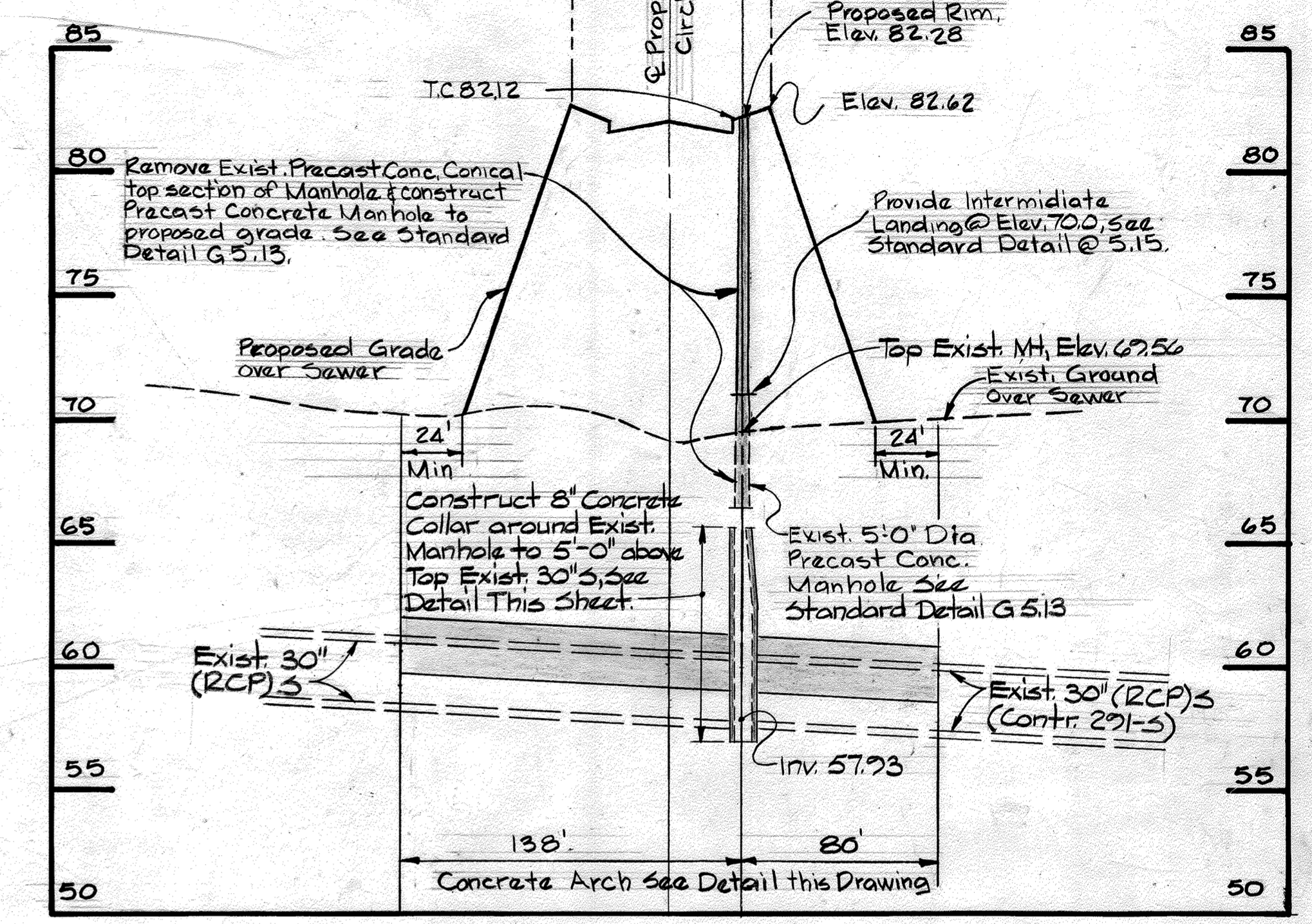
AS-BUILT 10/2/89



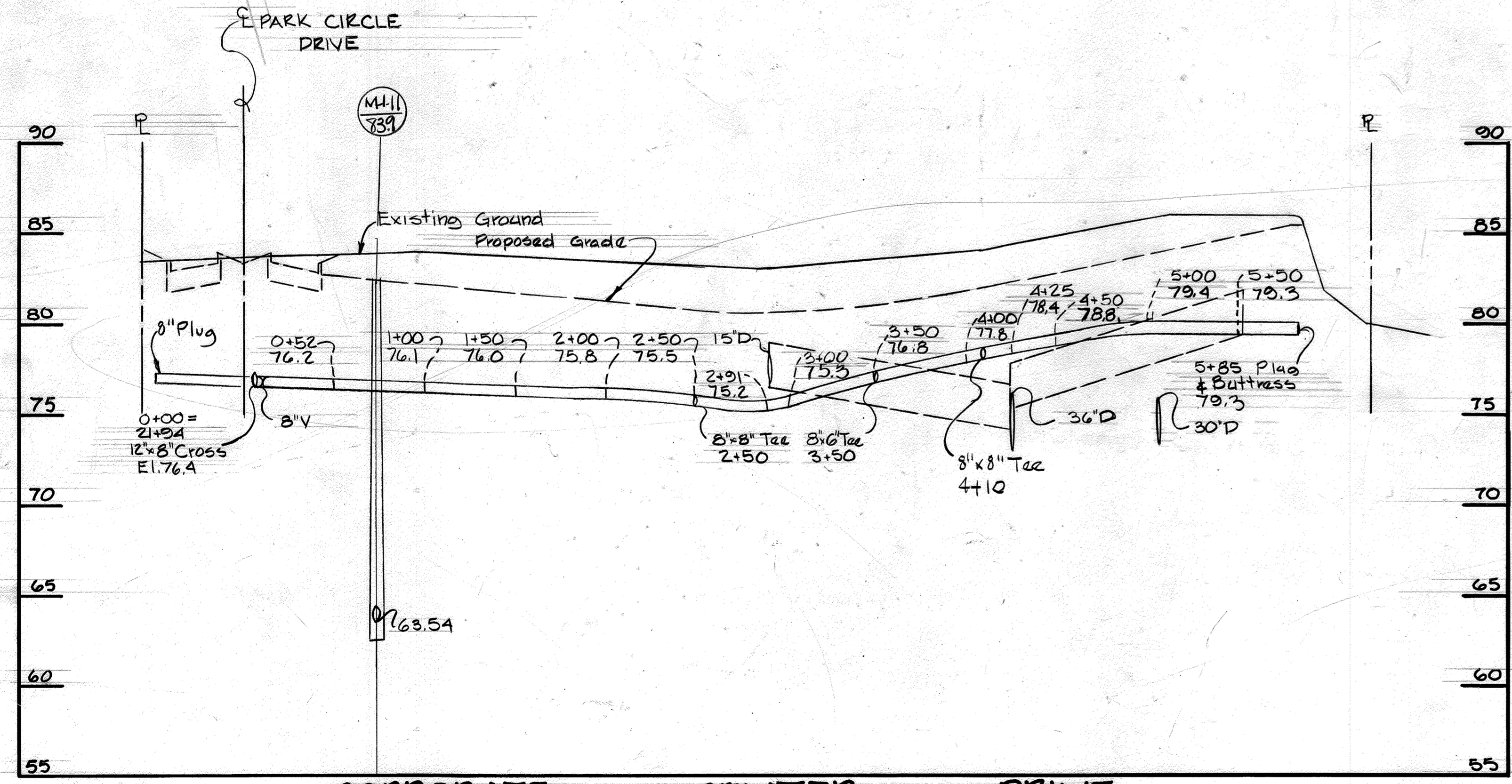
PLAN
Scale: 1"=50'



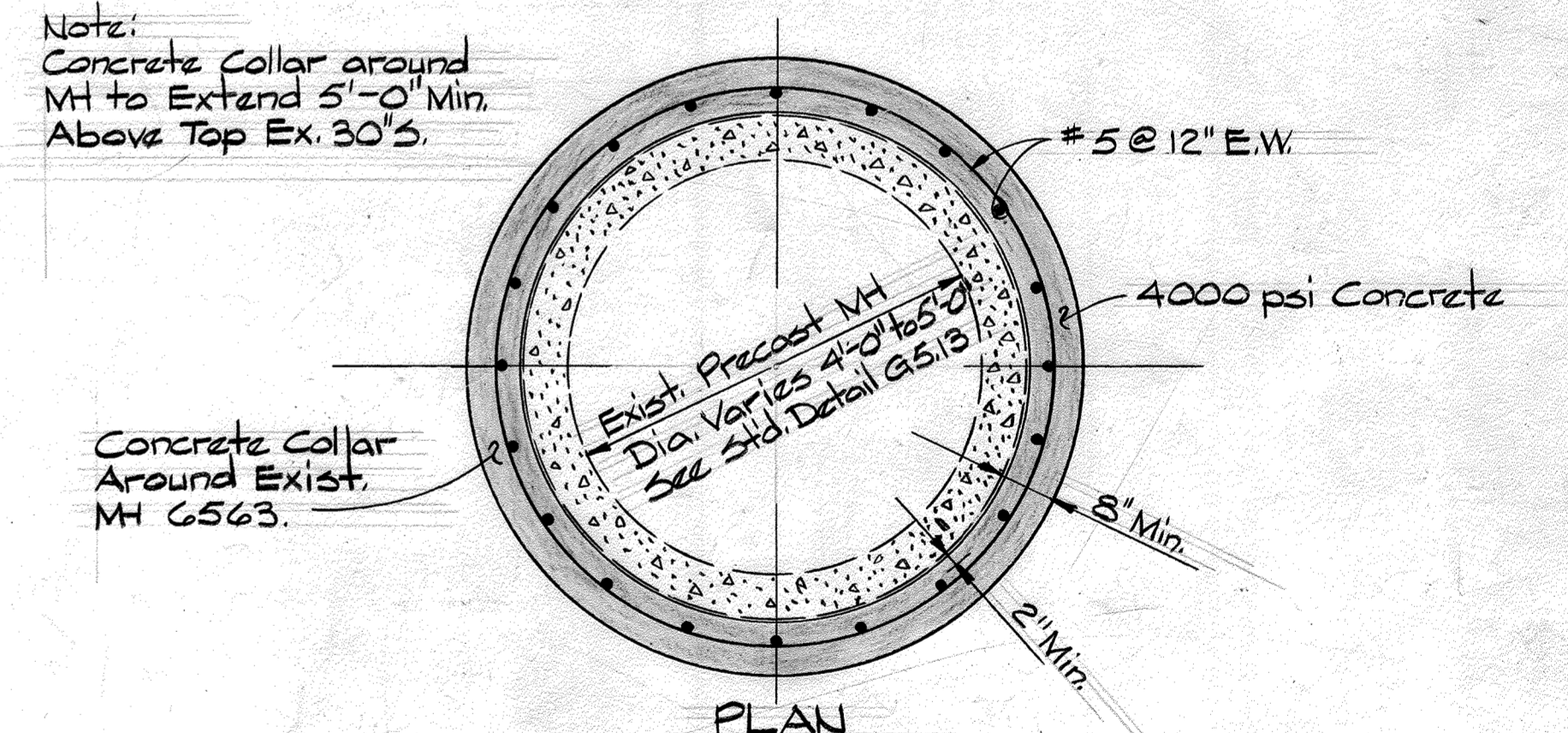
DETAIL OF CONCRETE ARCH OVER EXISTING 30" S
Scale: 1/2"=1'-0"



PROFILE OF EXISTING 30" SEWER AT ROAD STA. 15+61
Scale: Horizontal: 1"=50'
Vertical: 1"=5'



CORPORATE CENTER DRIVE
PROFILE
Scale: Horizontal: 1"=50'
Vertical: 1"=5'



DETAIL OF CONCRETE COLLAR AT EXIST. MH 6563
Scale: 1/2"=1'-0"

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE 12-19-87 Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND		DES: J.H.B. A: D.M.R. CHK: DATE: 12-15-87		PLAN & PROFILE OF WATER & SEWER MAINS PARKWAY CENTER ARUNDEL TRACT ELECTION DISTRICT NO. 1 CONTRACT NO. 14-1707-D AS-BUILT 10/2/89		SCALE AS SHOWN SHEET 7 OF 7
W.O. 40221		Added Conc. Collar Detail, Revised Profile of Ex. 30" S		600'-SCALE-MAP NO. 44 BLOCK NO.		AS-BUILT 10/2/89		