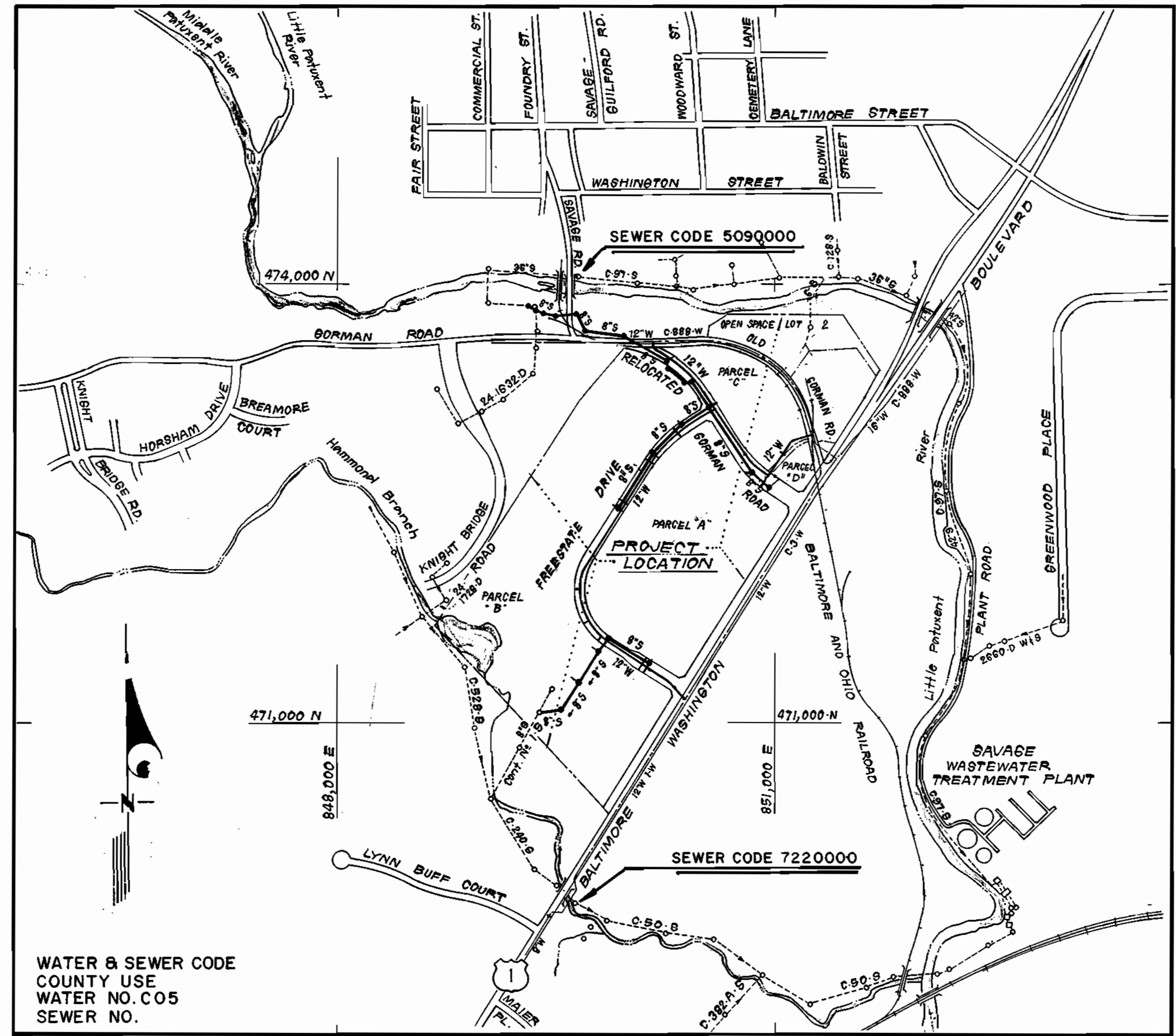


GENERAL NOTES (CONTINUED)

- 25. THE DEPARTMENT OF RECREATION AND PARKS IS TO BE CONTACTED IN WRITING NOT LESS THAN TEN (10) DAYS PRIOR TO A CONTRACTOR ENTERING THE PREMISES TO COMMENCE ANY ACTIVITY OTHER THAN SURVEY AND FOREST DELINEATION WORK.
- 26. Prior to commencement of construction activities, there shall be an on-site, pre-construction inspection meeting between the Developer, Howard County Bureau of Construction Inspection and Bureau of Parks. Prior to this meeting, the Developer shall:
 - a. clearly state the proposed right-of-way including the center line.
 - b. flag all trees greater than 6" DBH which are expected to be lost to construction.
- 27. The Department of Recreation and Parks shall decide the ultimate disposition of all trees removed.
- 28. Both sides of the construction strip must be fenced prior to construction, by an orange-plastic-mesh fence 4 feet high. This fence is to be secured to metal posts at 10 foot intervals and is not to be attached to any trees or other vegetation. The fence is to be removed after completion of construction.
- 29. A. Every attempt will be made to save trees immediately adjacent to the construction area. Where necessary, protective padding will be wrapped around tree trunks which may be damaged by machinery. NO EQUIPMENT OR MATERIALS SHALL BE PARKED OR STORED ON ANY PARK PROPERTY.
- B. ALL TREES DESTROYED WHICH WERE NOT SPECIFICALLY DESIGNATED TO BE LOST IN THE APPROVED TREE DELINEATION DRAWINGS, SHALL BE REPLACED AT 100% OF DBH LOST.
- C. Any and all trees damaged or scarred shall be treated within forty-eight hours by a qualified expert and in accordance with American Arborists Society standards. This includes the corrective pruning of broken limbs as well as the proper "dressing" at trunk wounds. UNDER NO CONDITION SHALL PRUNING PAINT OR OTHER TYPE OF PAINT BE USED ON ANY WOUNDS OR CUTS. ANY AND ALL TREES WHICH ARE DAMAGED AND NOT TREATED WITHIN 48 HOURS SHALL BE DEEMED "DESTROYED" AND WILL AUTOMATICALLY BE ADDED TO THE MITIGATION REQUIREMENTS OF THE PROJECT AT A 100% REPLACEMENT.
- D. All plant materials are to be replaced immediately upon completion of construction. If construction is completed during the "off seasons" (mid-summer or winter) than all plants will be replaced during the very next planting season.
- E. All plant material shall carry standard one (1) year warranty as required on all Recreation and Parks projects. This warranty period shall commence upon acceptance of the planting by the Bureau of Parks.
- F. All areas with exposed soil, (whether disturbed by developer or pre-existing) or areas with excessive annual vegetation shall be stabilized in accordance with SCS/WRA Maryland Standards and Specifications for Soil Erosion and Sediment Control Sect.51.01 using mixture #1 from table S1-1 of that section. Stabilization shall be defined as having a minimum of a two (2) inch stand of grass covering 95% of the soil surface in unit increments of one (1) square yard.
- 30. There shall be a penalty of \$1.00 per square foot for any and all areas disturbed outside the limits of disturbance indicated on the approved plans. This is in addition to the 100% DBH replacement requirement.
- 31. Any manholes on park property are to be 0.5 feet above finished grade, except in the 100 yards floodplain, where they are to be 1.5 feet above grade.
- 32. It is understood and agreed that the Grantee shall complete its construction within Grantor's property within one hundred (100) days after written notice to Grantor of its intent to commence activity. Within thirty (30) days after completion on construction, Grantee agrees to restore the area in accordance with the approved landscape plan described above.
- 33. Grantee waives all right, claim or damage against Grantor for the use of said premises and as to any latent sub-soil conditions. Grantee further agrees to indemnify, protect and save harmless the Grantor from all costs or expense resulting from any and all loss of or damage to the property of the Grantor, and from any and all loss of any person, firm, or corporation (including the officers, agents, and employees of either party hereto) and from any and all claims, demands or actions for such loss, injury or damage caused by or growing out of Grantee's negligent use, construction, maintenance, operation, renewal, change, relocation or subsequent removal of the line and/or facilities of the Grantee.

TYPE OF BUILDING	COMMERCIAL
NO. OF LOTS	4 PARCELS, 2 OPEN SPACE LOTS & 1 OUTLOT
NO. OF WHC's	-
NO. OF SHC's	-
DRAINAGE AREA	LITTLE PATUXENT



TEST GRADIENT = 550
VICINITY MAP
SCALE: 1" = 600'

GENERAL NOTES

- 1. 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 Inspector, at the contractor's expense.
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. Datum.
- 4. All pipe elevations shown are invert elevations.
- 5. Clear all utilities by a minimum of 6" clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- 6. For details not shown on the drawings use Howard County Standard Details.
- 7. For materials and construction methods use Howard County Standard Specifications and Howard County Design Manual, Volume IV, 1990 Amendments. The Contractor shall have Volume IV, 1990 Amendments, on the job site.
- 8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- 9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Company - Underground Damage Control - 787-9068
 - Baltimore Gas & Electric Company - Contractor Services - 850-4620
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-800-257-7777
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
 - Bureau of Utilities Howard County - 313-4900.
 - Colonial Pipeline Company - 795-1390
- 10. 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.
- 11. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the Inspector. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- 12. 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.
- 13. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 14. Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- 15. Valves adjacent to tees shall be strapped to tees.
- 16. Block all fittings with concrete.
- 17. Bury line elevations on fire hydrants shall be set to the 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 to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
- 18. All water house connections shall be for an inside meter setting.
- 19. The contractor shall not operate any water main valves on the existing system.
- 20. All sewer mains shall be C.S.P.X., V.C.P.X., P.V.C., or D.I.P., unless otherwise noted.
- 21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- 22. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 23. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
- 24. Manholes designated thus: WT, shall have a Watertight Frame and Cover.

CONTRACT NO.24-3172-D
FREESTATE
PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plan F.92-74; Drawing, Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
James M. DeLoe / JPD 5/14/92
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

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

APPROVED:
John R. Deaton 5/14/92
Howard S.C.D. DATE

QUANTITIES				
ITEM	QUANTITIES EST'D	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURE / SUPPLIER
12" W.	4,485 LF.	4,410 LF.	D.I.P.	ATLANTIC STATES A-1 PIPE INC.
8" W.	510 LF.	510 LF.	D.I.P.	" " " " " "
8" S.	4,308 LF.	4,000 LF.	F.V.C.	J.M. MANUFACTURING BELAIR MD.
12" V.	8 EA.	8 EA.	D.I.	MUELLER " " " "
8" V.	13 EA.	13 EA.	D.I.	" " " " " "
FIRE HYDRANTS	10 EA.	10 EA.	D.I.	U.S. PIPES & FOUNDRY " " " "
12"x12" T.S.I.V.	3 EA.	3 EA.	D.I.	E.B.B.A IRON SALES " " " "
2" AIR RELEASE V.	2 EA.	2 EA.	D.I.	A.P.C.O " " " "
4' DIA MANHOLE	23 EA.	23 EA.	CGNO.	TERRE HILL TERRE HILL
6" S	78 LF.	80 LF.	P.V.C.	J.M. MANUFACTURING BELAIR MD.
8" S (D.I.P.)	673 LF.	673 LF.	D.I.P.	ATLANTIC STATES A-1 PIPE INC.

NAME OF UTILITY CONTRACTOR: GAINES & CO.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. DeLoe 5/14/92
DIRECTOR OF PUBLIC WORKS DATE

Richard J. Deaton 5-12-92
CHIEF, BUREAU OF UTILITIES DATE

Clifford S. Deaton 5/14/92
CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY. COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.

DES: J.T.R.			
DRN: J.T.R.			
CHK: C.C.M.			
DATE: DEC. 91	BY NO.	REVISION	DATE

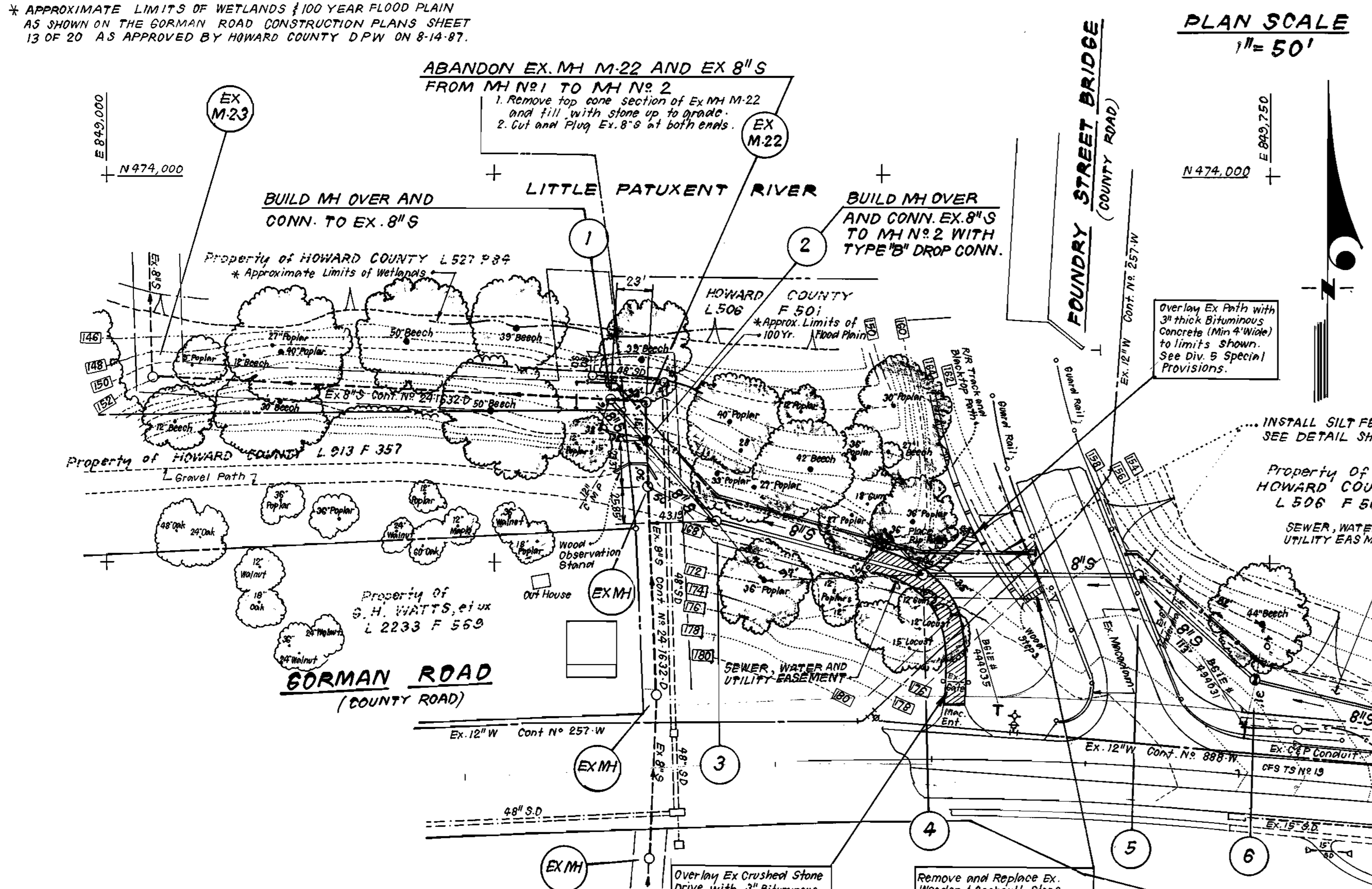
TITLE SHEET

600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

FREESTATE
PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
6TH ELECTION DISTRICT
CONTRACT NO. 24-3172-D

SCALE AS SHOWN
SHEET 1 OF 9

* APPROXIMATE LIMITS OF WETLANDS 100 YEAR FLOOD PLAIN AS SHOWN ON THE GORMAN ROAD CONSTRUCTION PLANS SHEET 13 OF 20 AS APPROVED BY HOWARD COUNTY DFW ON 8-14-87.

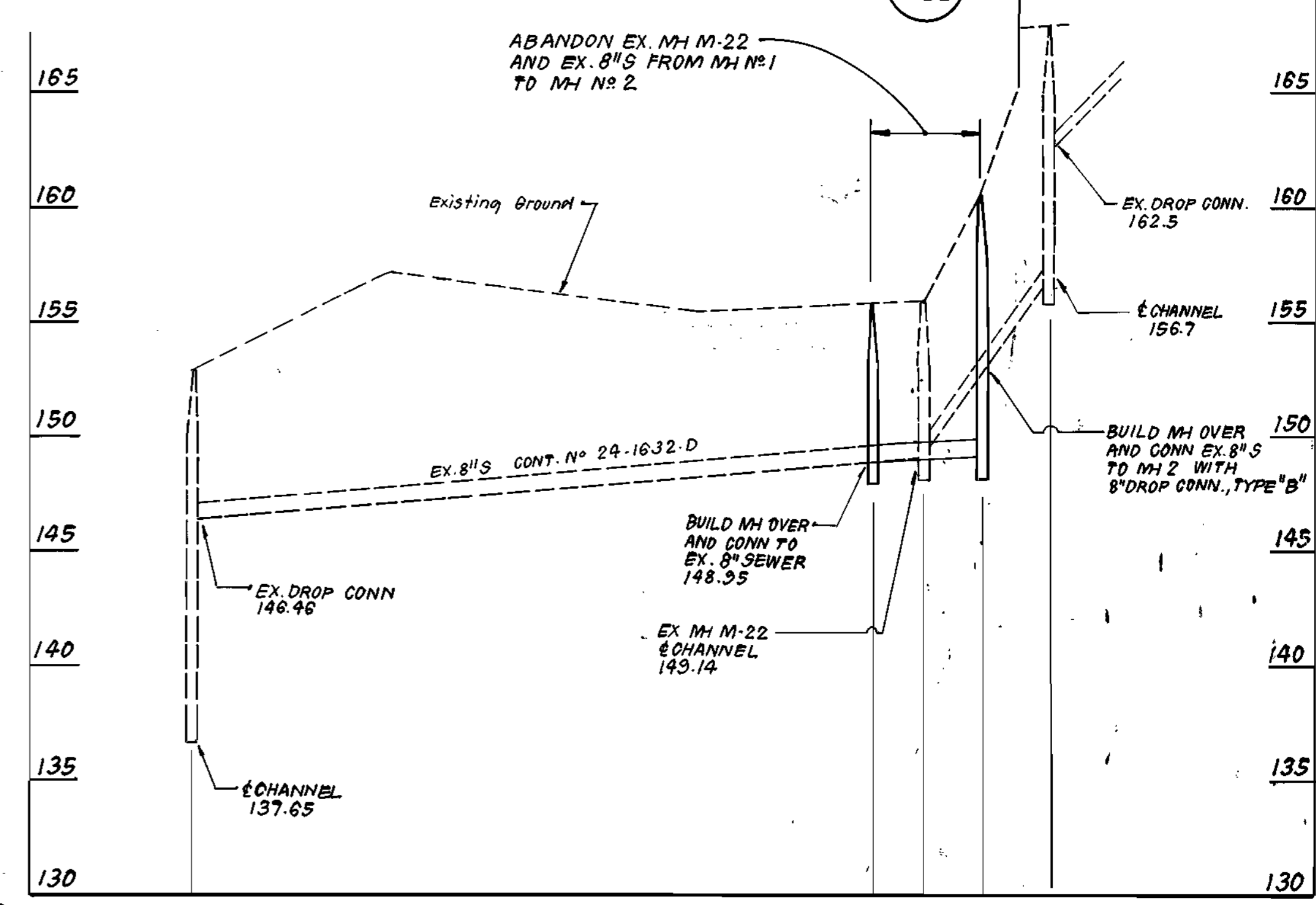


PLAN SCALE
1" = 50'

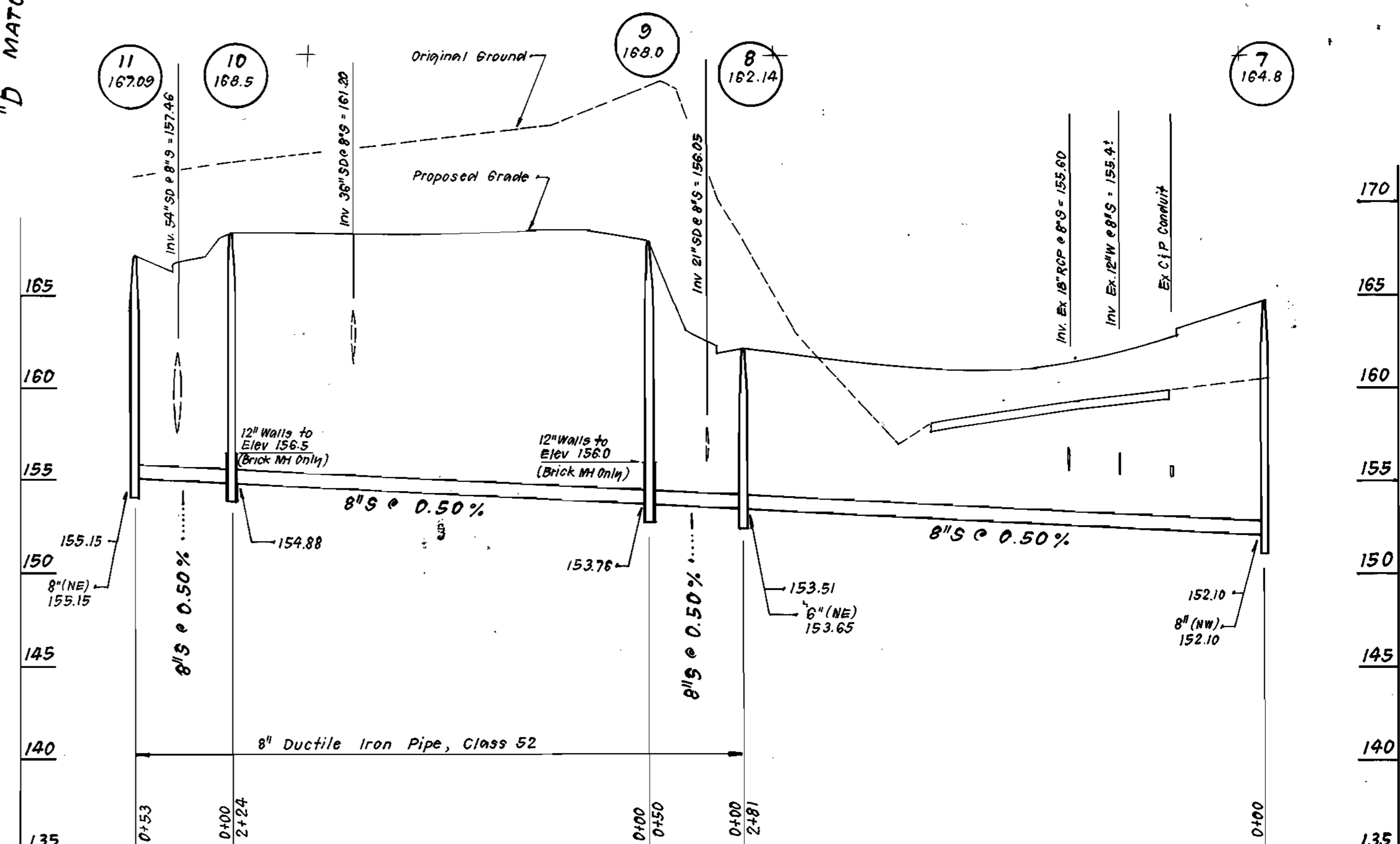
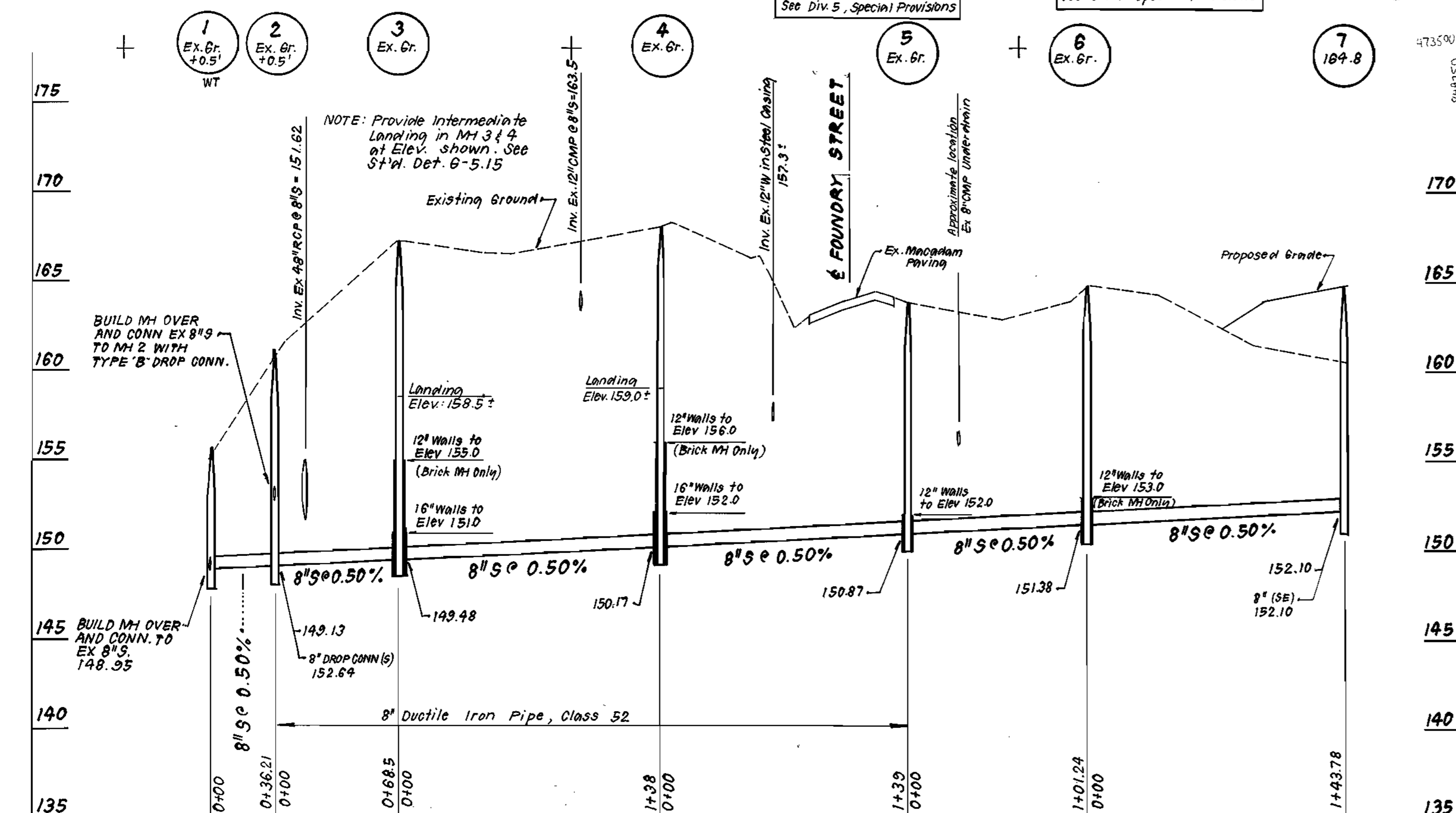
FROM	TO	BEARING	DISTANCE
TS 18	TS 19	N 85° 26' 07" W	248.59'
TS 19	MH 4	N 65° 46' 25" W	268.54'
TS 19	MH 5	N 43° 34' 34" W	150.97'
TS 19	MH 6	N 35° 05' 25" W	50.56'
MH 4	MH 5	N 90° 00' 00" W	139.00'
MH 5	MH 6	N 47° 48' 09" W	107.24'

EX M-23

1
EX. GR.
2
EX. GR.
EX M-22



PROFILE SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *James M. ...* DATE: 5/19/92
 Chief, Bureau of Utilities: *Robert ...* DATE: 5-12-92

Chief, Engineering: *...* DATE: 5-12-92
 Chief, Land Development Div.: *...* DATE: 5/16/92

CLARK · FINEPROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS

7155 MINSTREL WAY COLUMBIA MARYLAND 21045
 (301) 381-7500 BALTO. (301) 621-8100 WASH.

DES: J.T.R.
 DRN: J.T.R.
 CHK: C.C.M.
 DATE: MAR. 92

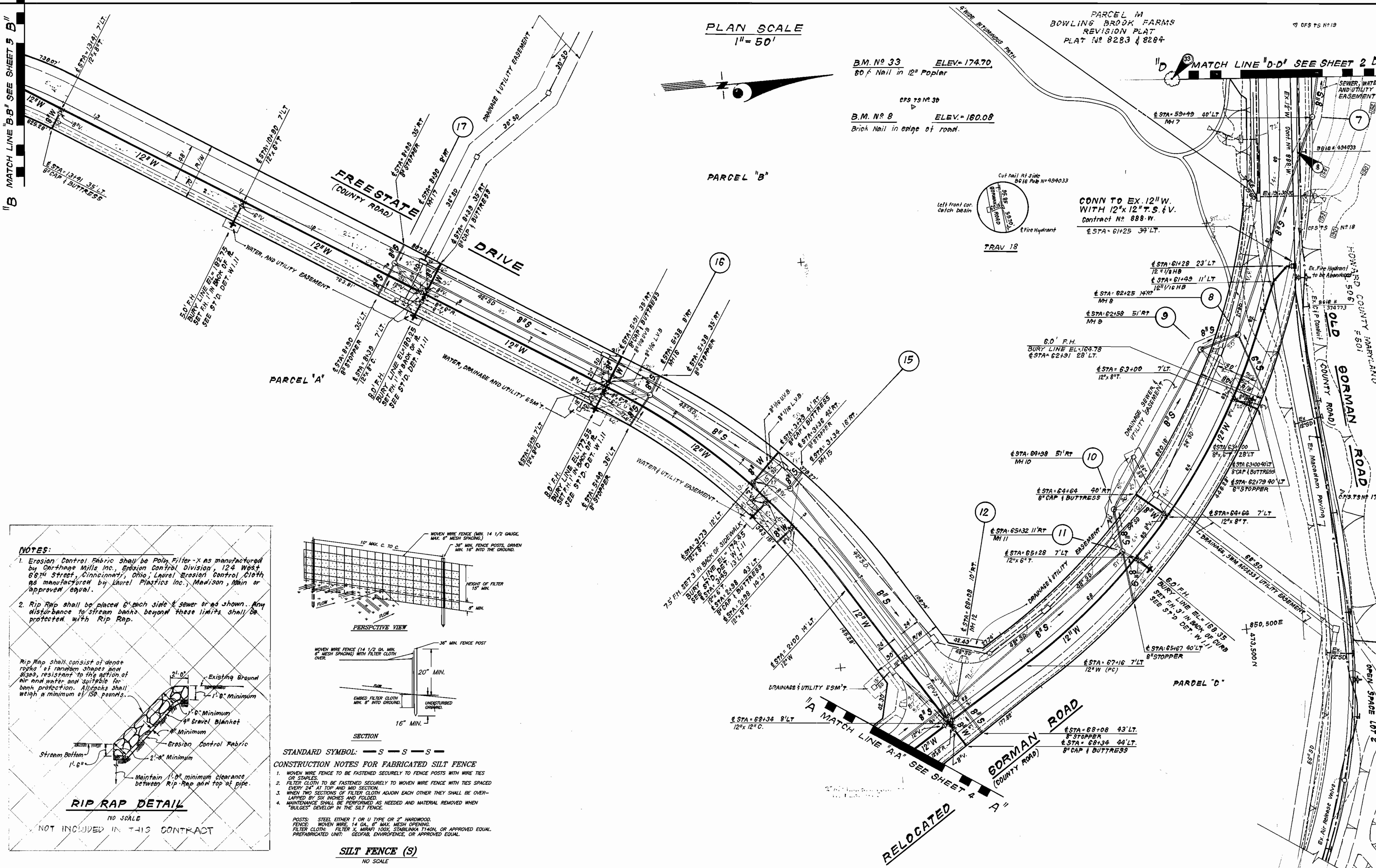
PLAN & PROFILES OF
WATER & SEWER MAINS

600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

FREESTATE
 PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
 6TH ELECTION DISTRICT
 CONTRACT NO. 24-3172-D

SCALE AS SHOWN
 SHEET 2 OF 9

AS-BUILT CFS 91-009



PLAN SCALE
1" = 50'

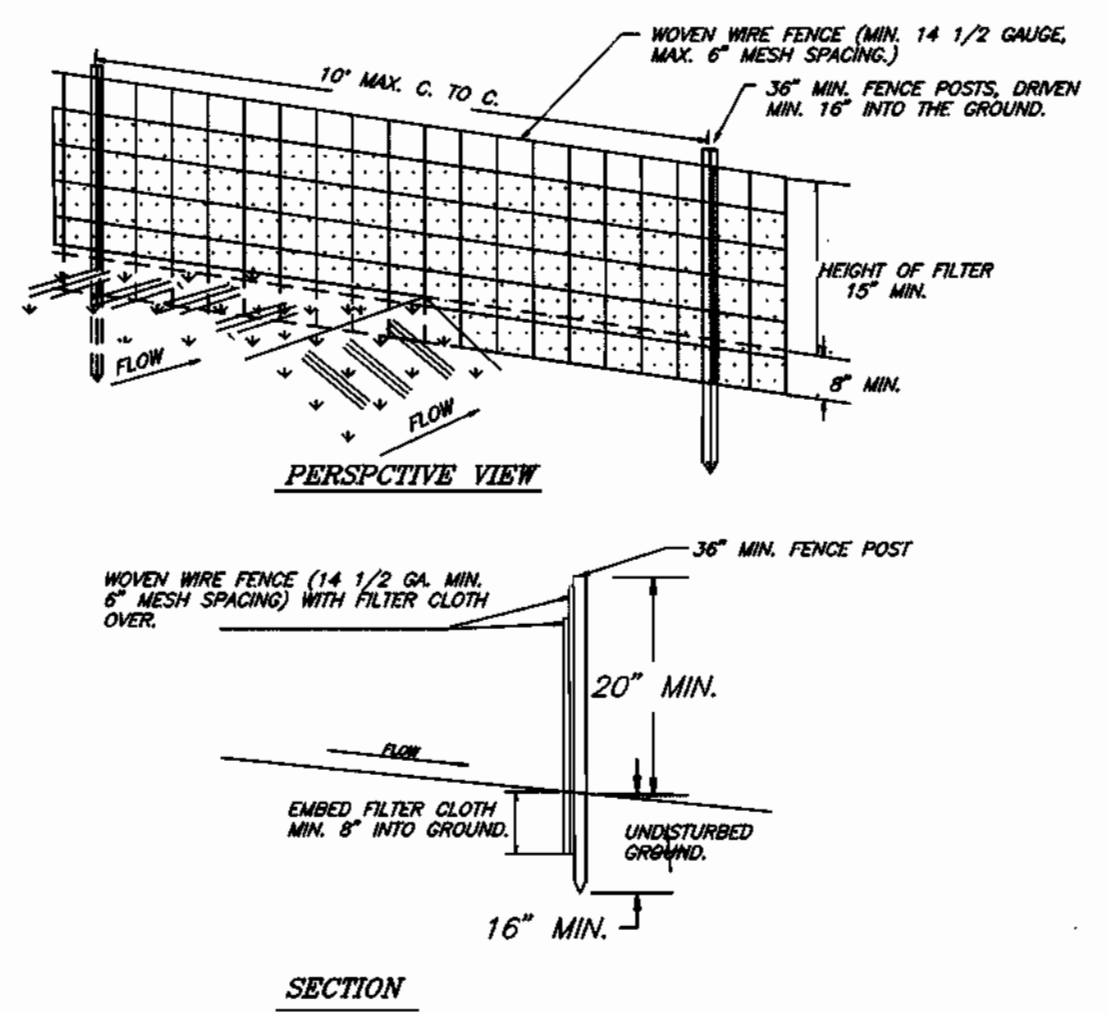
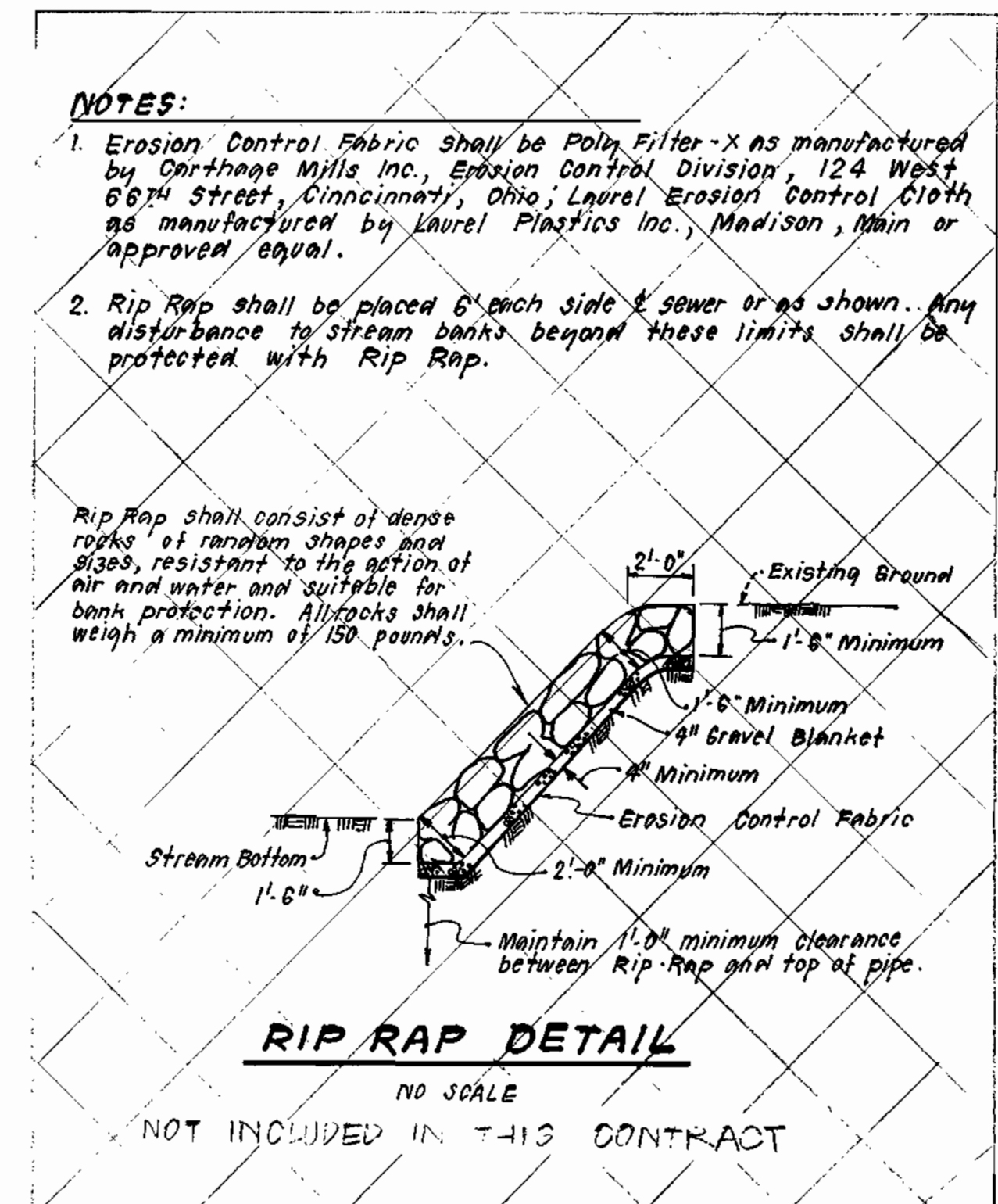
B.M. No 33 ELEV. = 174.70
80' Nail in 12" Poplar

CFS 75 No 30

B.M. No 8 ELEV. = 160.08
Brick Nail in edge of road.

PARCEL M
BOWLING BROOK FARMS
REVISION PLAT
PLAT No 8283 & 8284

MATCH LINE "D-D" SEE SHEET 2 D



STANDARD SYMBOL: — S — S — S —

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.
FILTER CLOTH: FILTER X, MIRAF 100X, STABILINKA 1140N, OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

SILT FENCE (S)
NO SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Lewis 5-19-92
DIRECTOR OF PUBLIC WORKS DATE

Robert J. Deane 5-12-92
CHIEF, BUREAU OF UTILITIES DATE

Richard E. Riley 5-12-92
CHIEF, BUREAU OF ENGINEERING DATE

William J. Deane 5-12-92
CHIEF, LAND DEVELOPMENT DIV. DATE

CFS CLARK · FINEPROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: J.T.R.					
DRN: J.T.R.					
CHK: C.C.M.					
DATE: DEC. 91	BY:	NO.	REVISION	DATE	

PLAN OF
WATER & SEWER MAINS

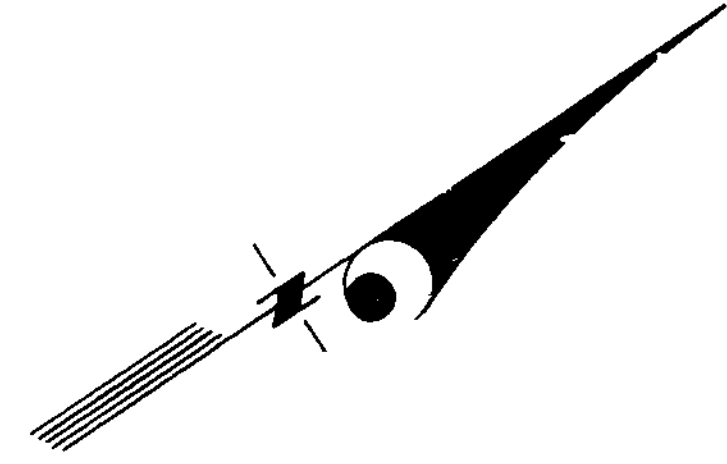
600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

SCALE
AS SHOWN

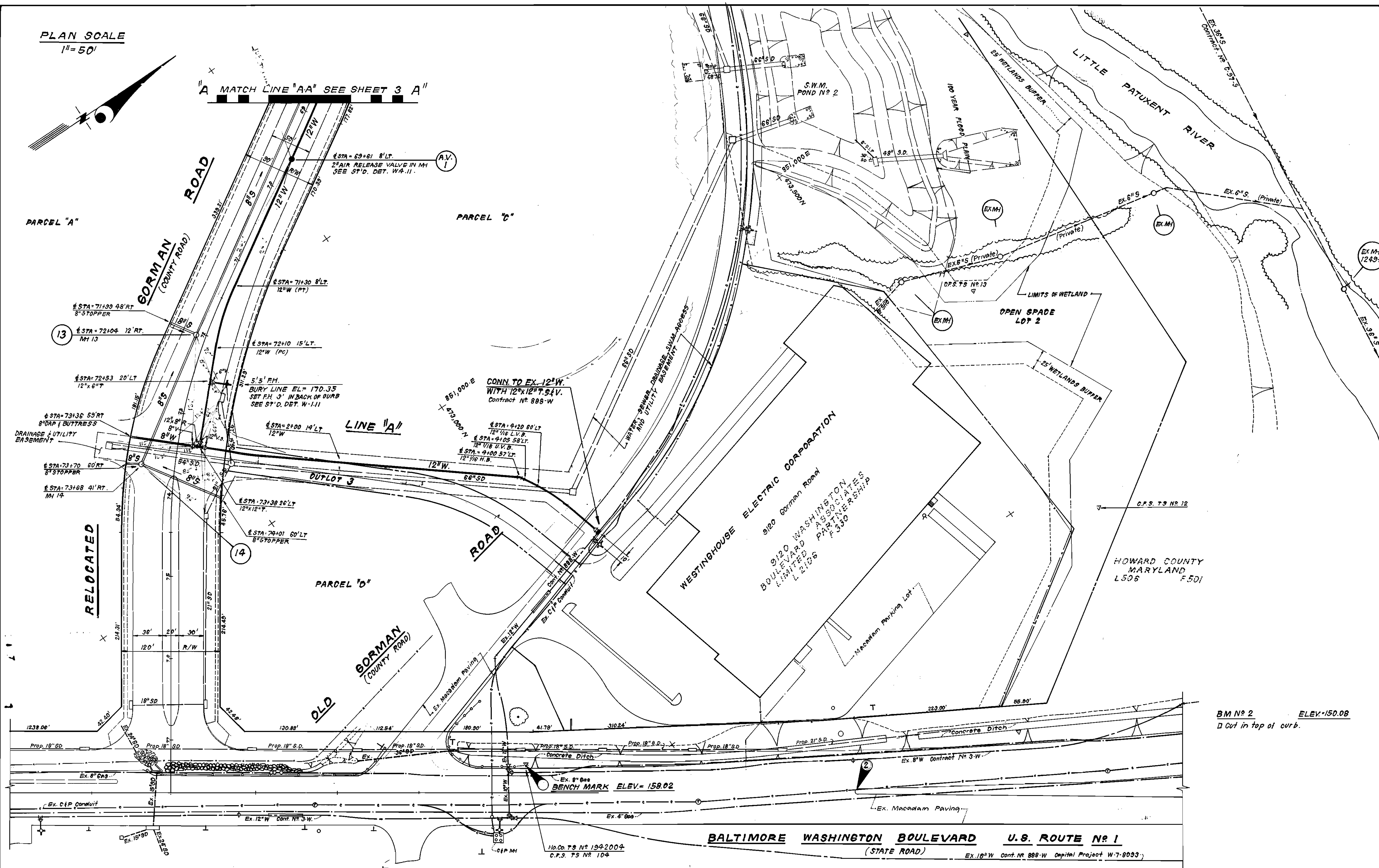
SHEET
3 OF 9

AS-BUILT

PLAN SCALE
1" = 50'



A MATCH LINE "AA" SEE SHEET 3 A"



BM No 2 ELEV. 150.08
D Cut in top of curb.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

5-19-92
DIRECTOR OF PUBLIC WORKS DATE

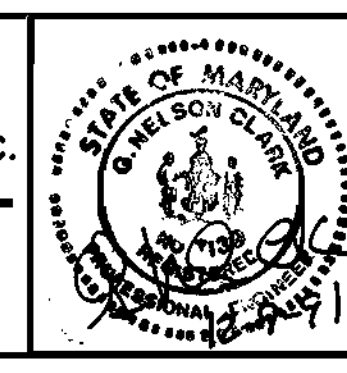
5-12-92
CHIEF, BUREAU OF UTILITIES DATE

5-19-92
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, LAND DEVELOPMENT DATE

CLARK - FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: J.T.R.				
DRN: J.T.R.				
CHK: C.C.M.				
DATE: DEC. 91	BY:	NO.	REVISION	DATE

PLAN OF
WATER & SEWER MAINS

60' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

FREESTATE
PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
6TH ELECTION DISTRICT
CONTRACT NO. 24-3172-D

SCALE AS SHOWN
SHEET 4 OF 9
AS-BUILT CFS 91-00

PLAN SCALE
1" = 50'



"B" MATCH LINE "B-B" SEE SHEET 3 "B"

PARCEL "B"

PARCEL "A"

ABANDON EX. 6" WATER HOUSE CONNECTION
FROM EX. 6" GATE VALVE TO EX. WATER METER
BY THE FOLLOWING:

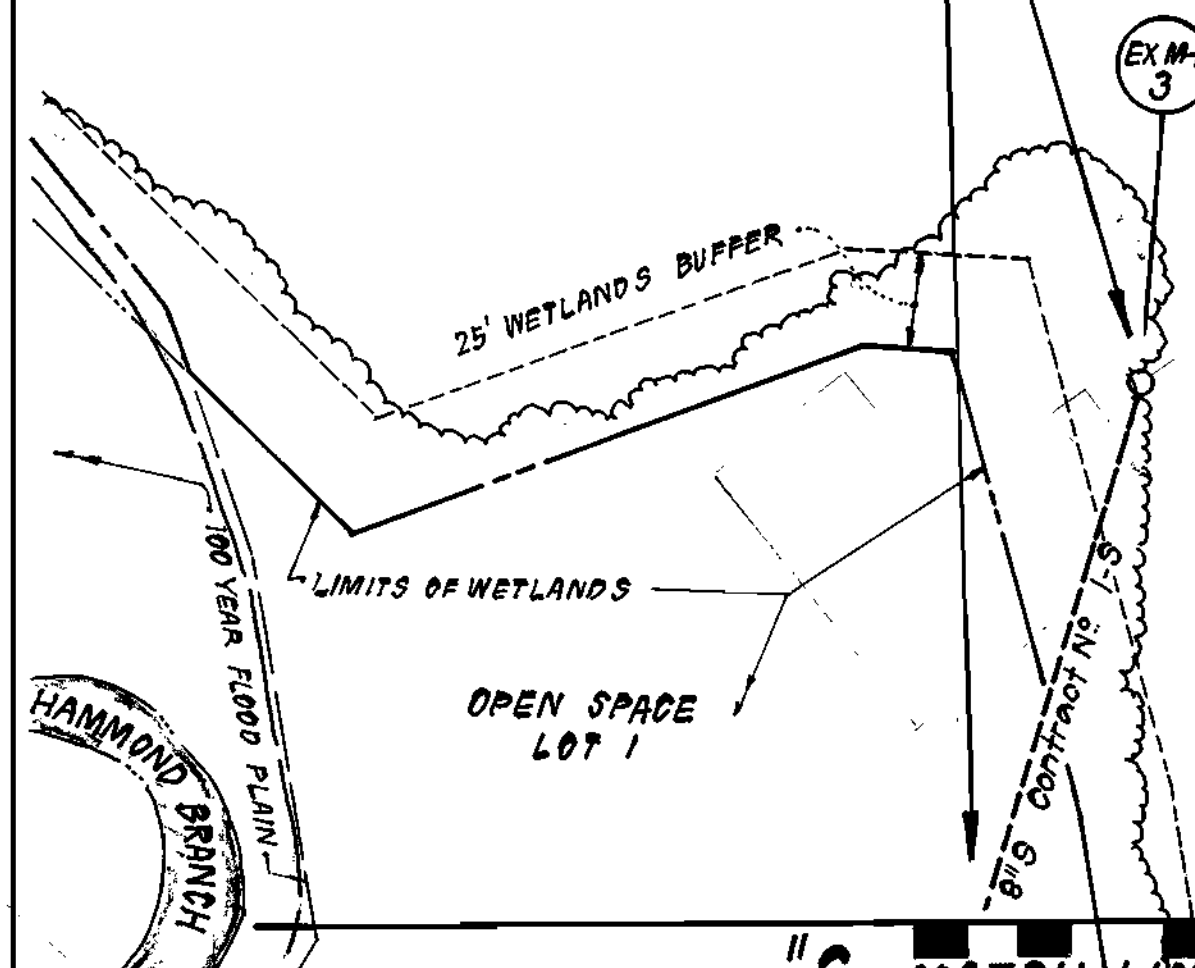
1. Close Ex. 6" Gate Valve and remove roadway box.
2. Cut Ex. 6" WHC, plug Ex. 6" Gate Valve and provide concrete buttress strap valve to tee.
3. Remove the existing water meter from the meter vault and return it to the Bureau of Utilities.
4. Remove the slab from the meter vault, fill the vault with selected backfill and compact in accordance with S.H.A. Standards to the finished grade.

ABANDON EX. MH 3 AND EX. 8" S
FROM EX. MH 2 TO EX. MH 3

1. Remove top cone section of Ex. MH 3 and fill with stone up to grade.
2. Cut and Plug Ex. 8" S at both ends.

HO. CO. TS. NO. 184-2008
C.F.S. TS. NO. 106

BENCH MARK ELEV. = 186.58
Howard County Monument No. 218 42 006



"C" MATCH LINE "C-C" SEE SHEET 6 "C"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Swinney 5/19/92
DIRECTOR OF PUBLIC WORKS DATE

CLARK FINEPROCK & SACKETT, INC.
CHIEF, BUREAU OF ENGINEERING DATE

CLARK FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS
7135 MINSTREL WAY COLUMBIA MARYLAND 21045
(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: J.T.R.
DRN: J.T.R.
CHK: C.C.M.
DATE: DEC. 91

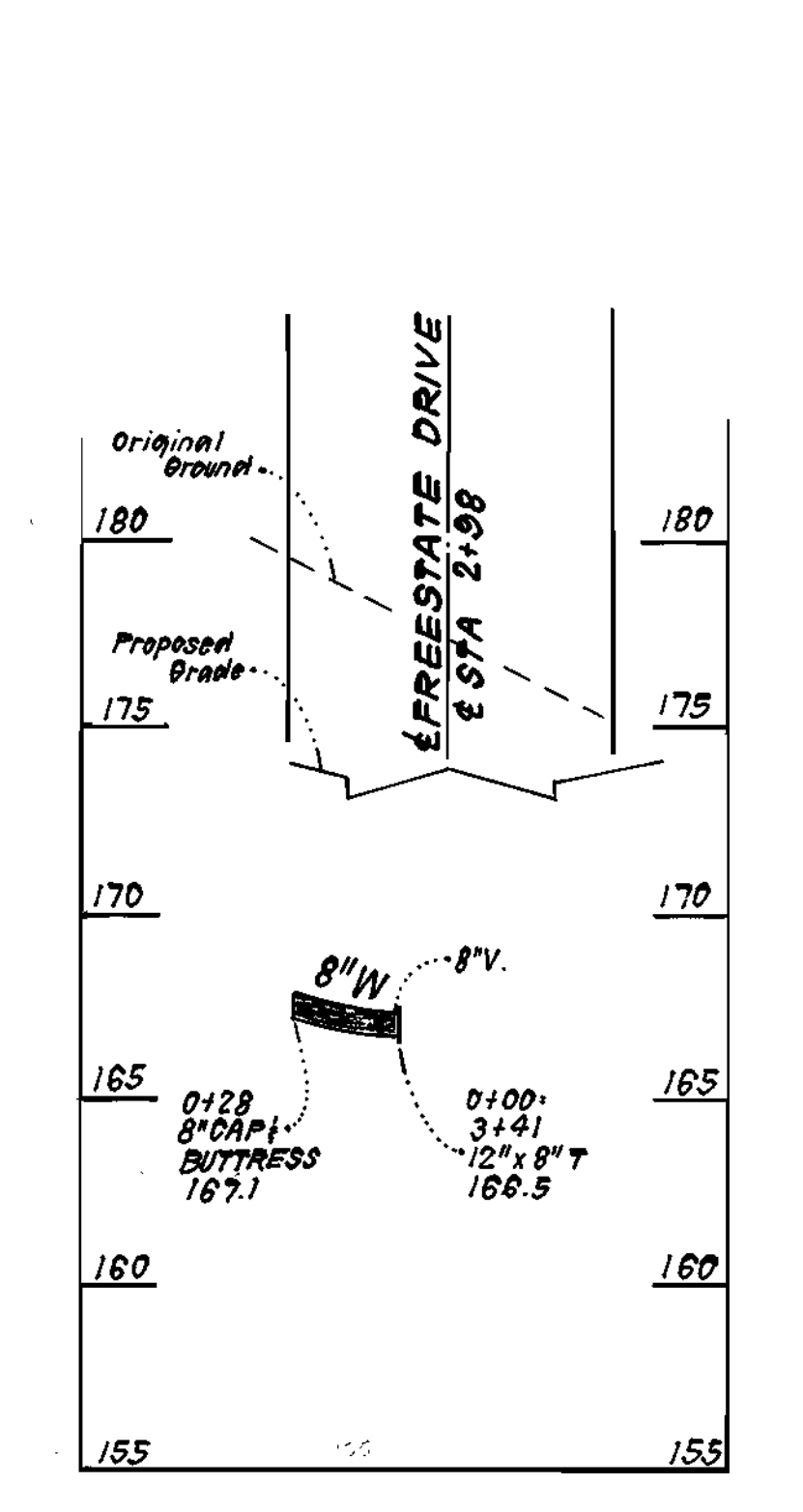
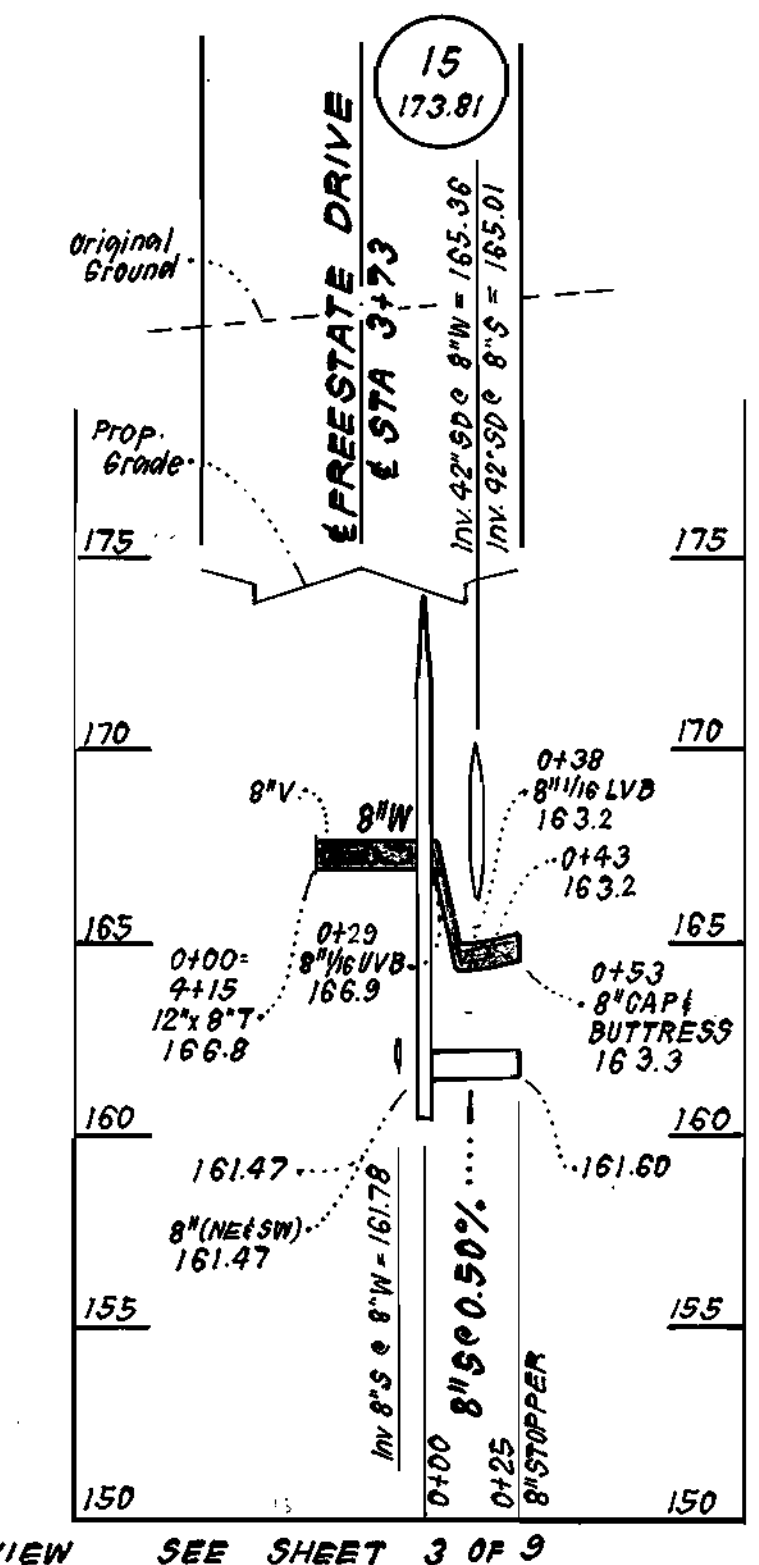
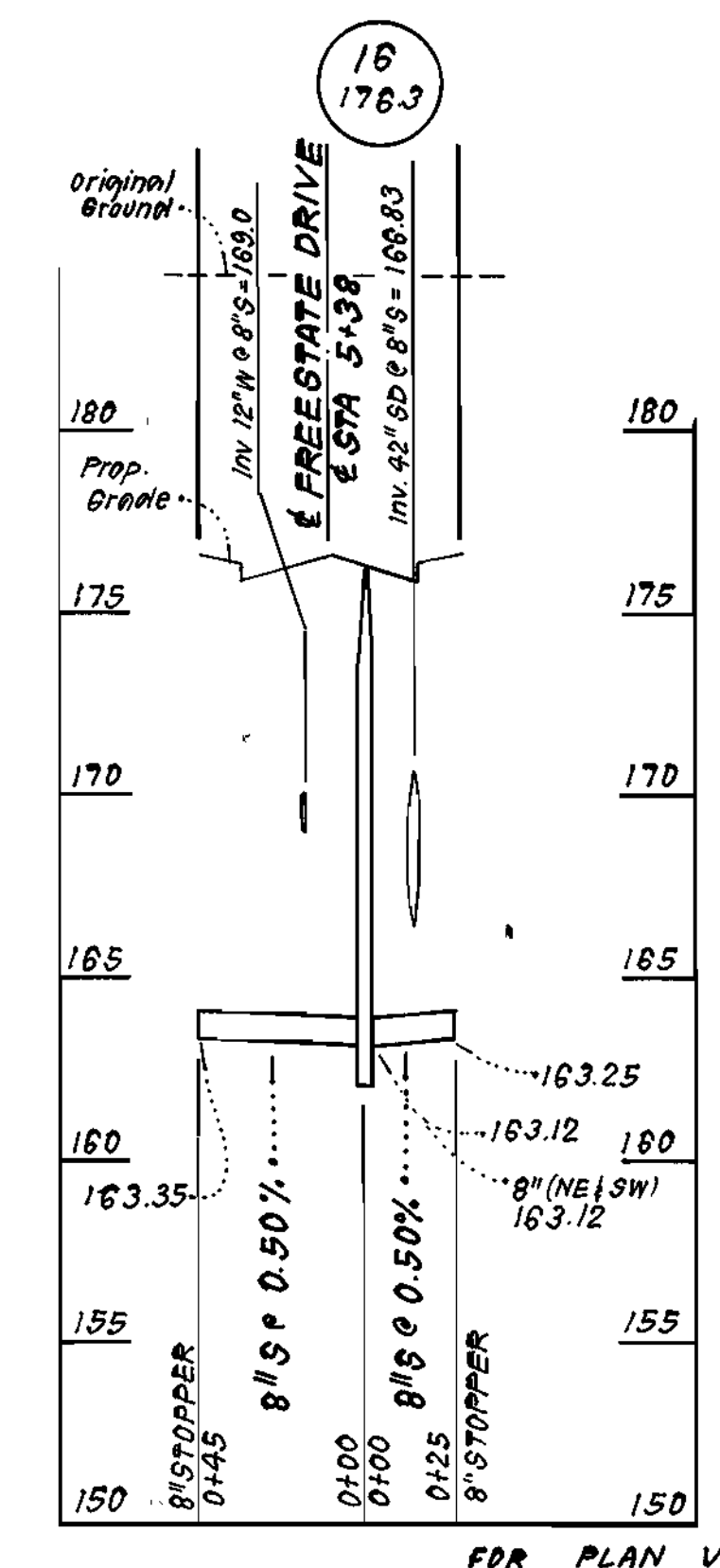
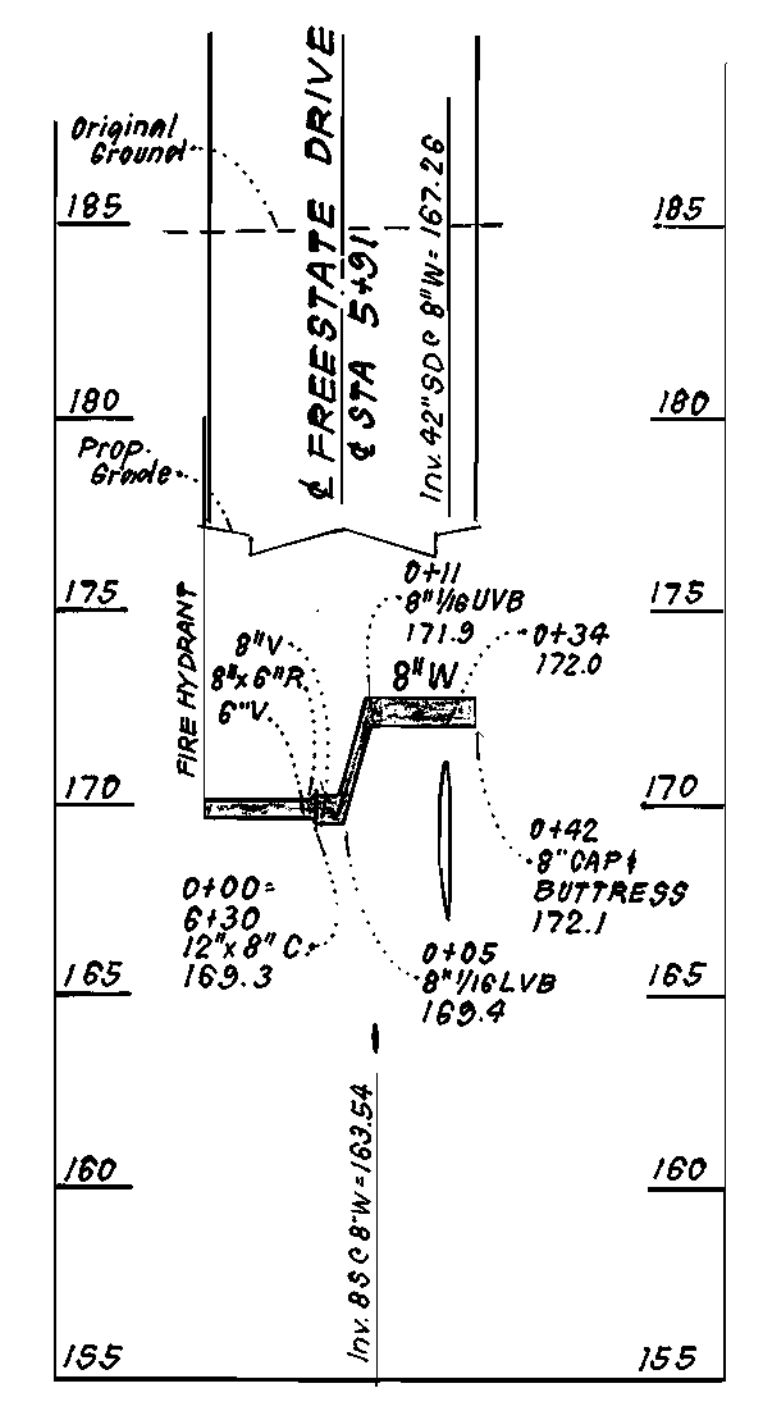
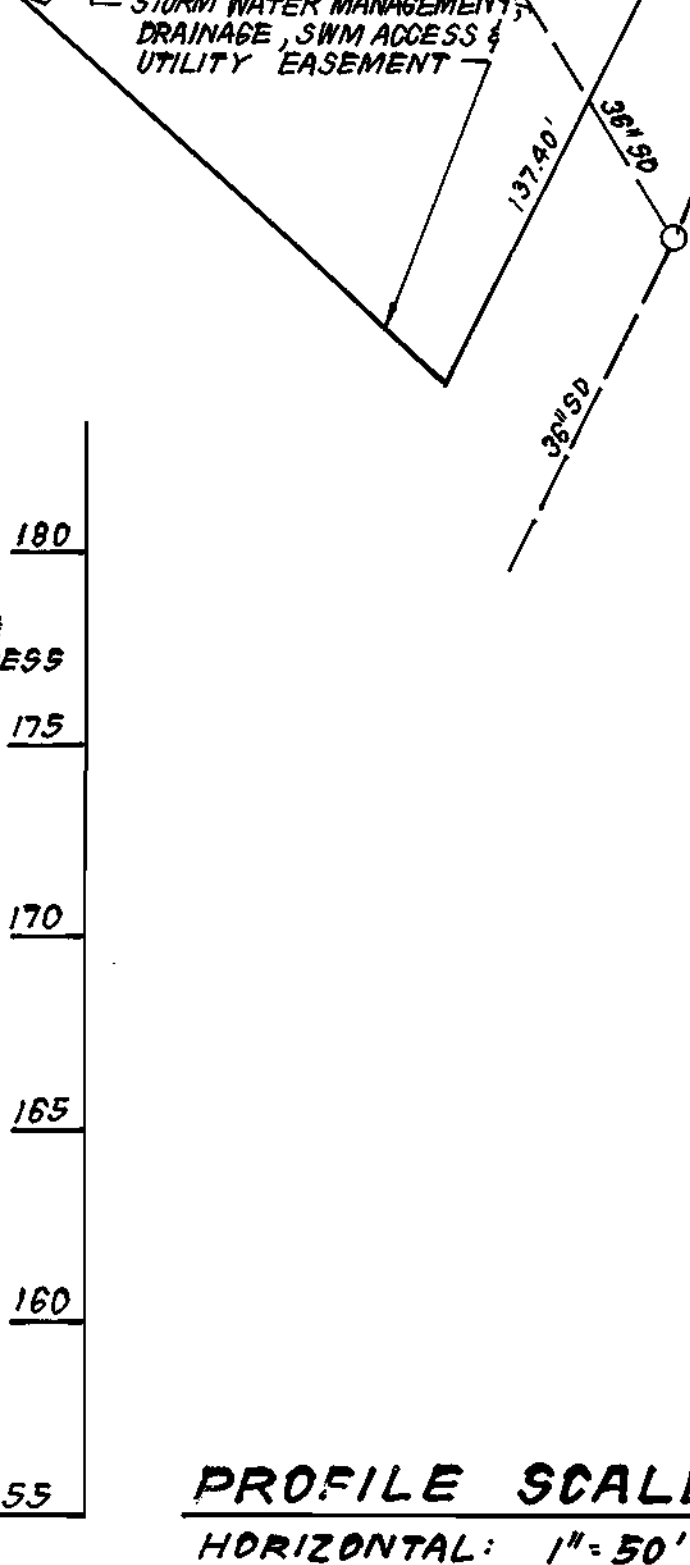
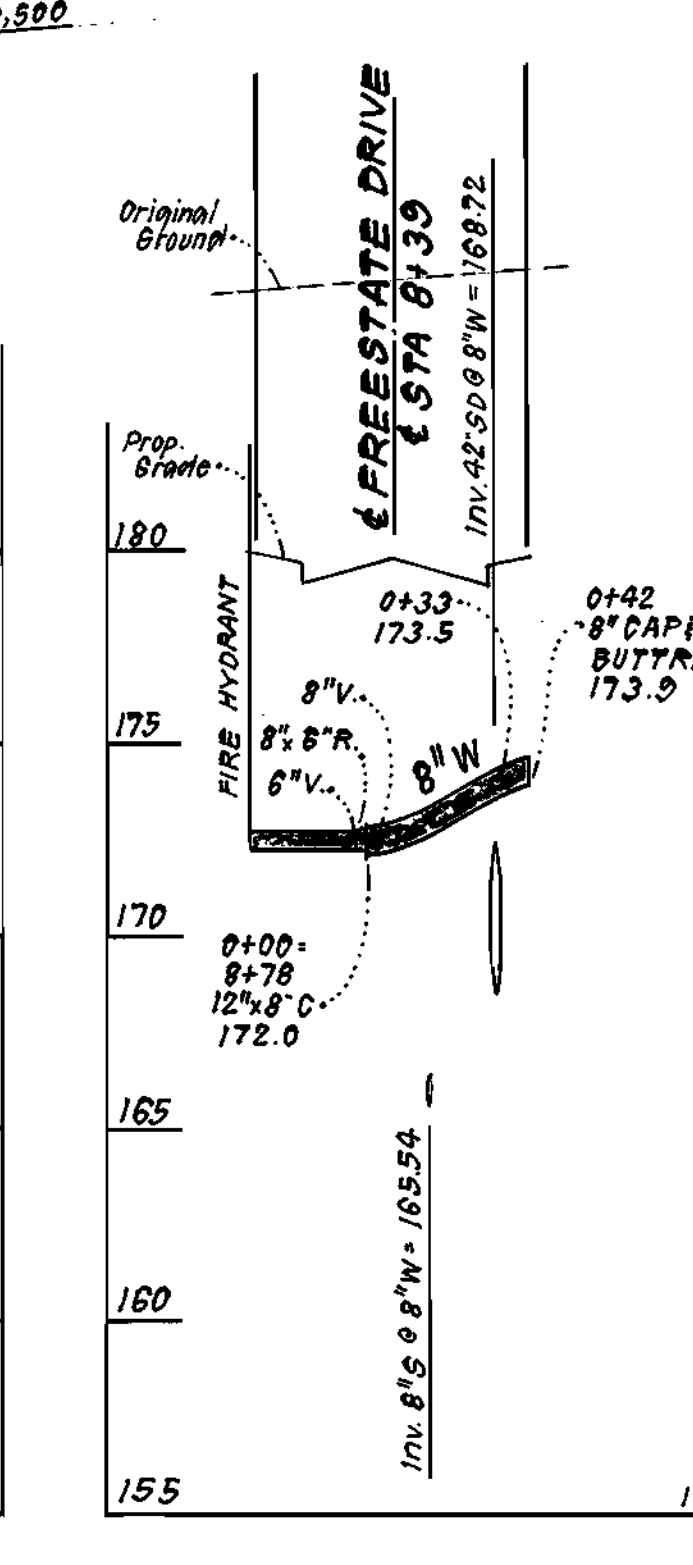
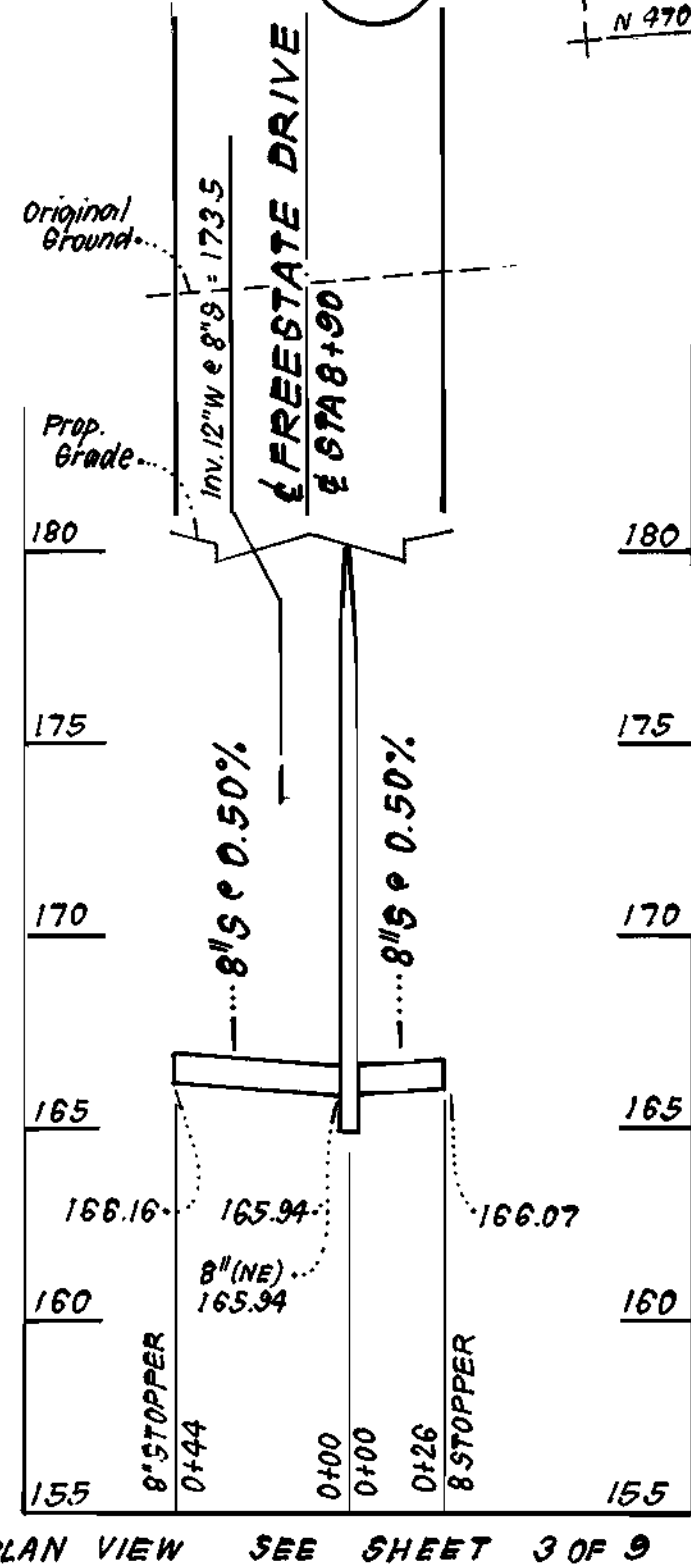
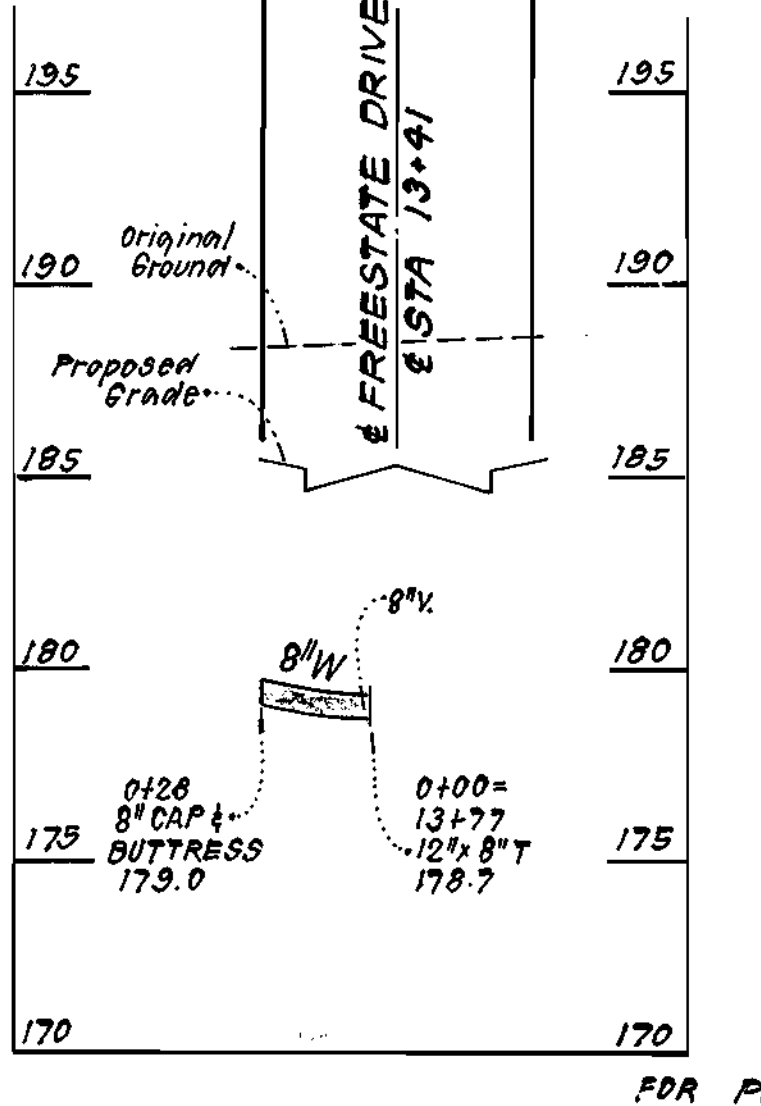
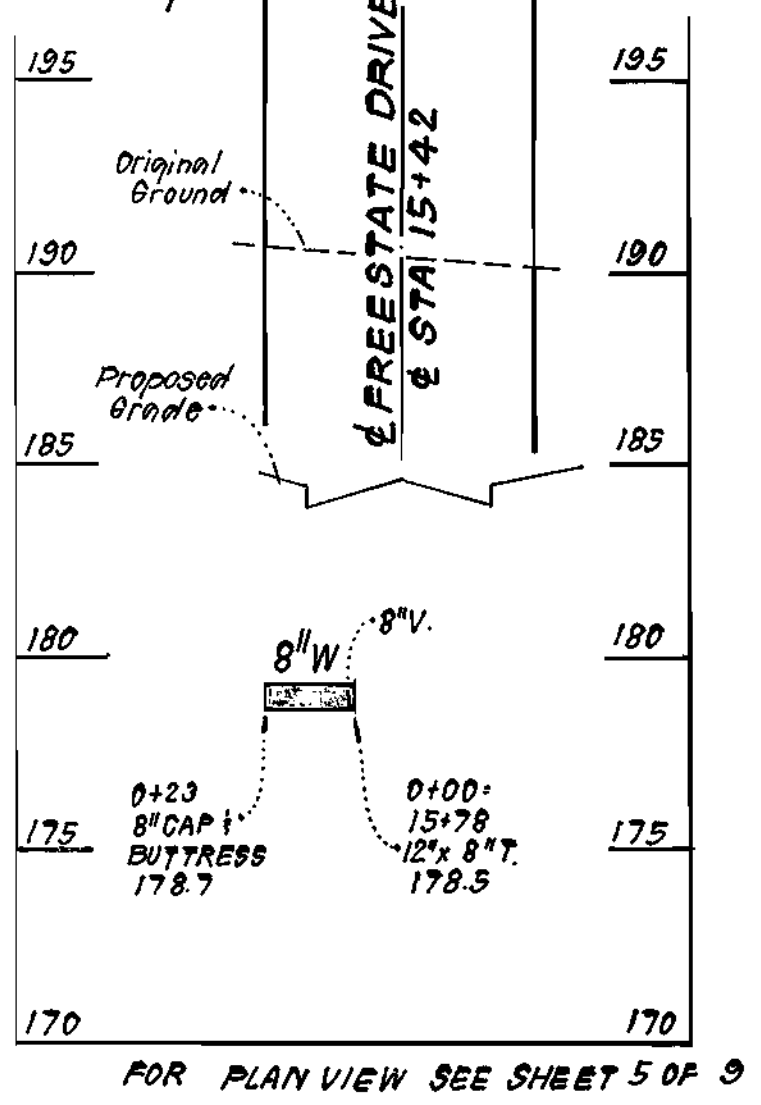
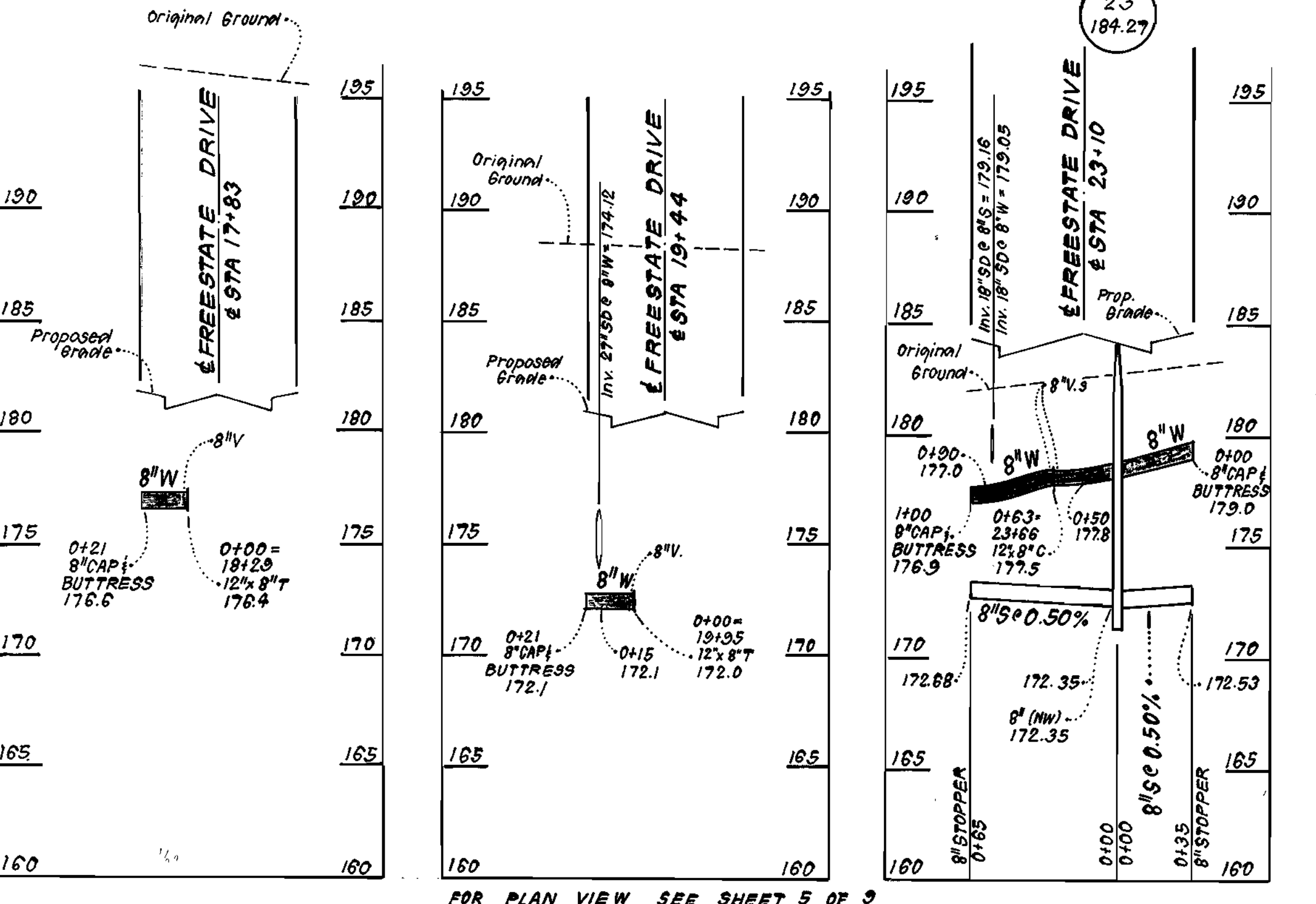
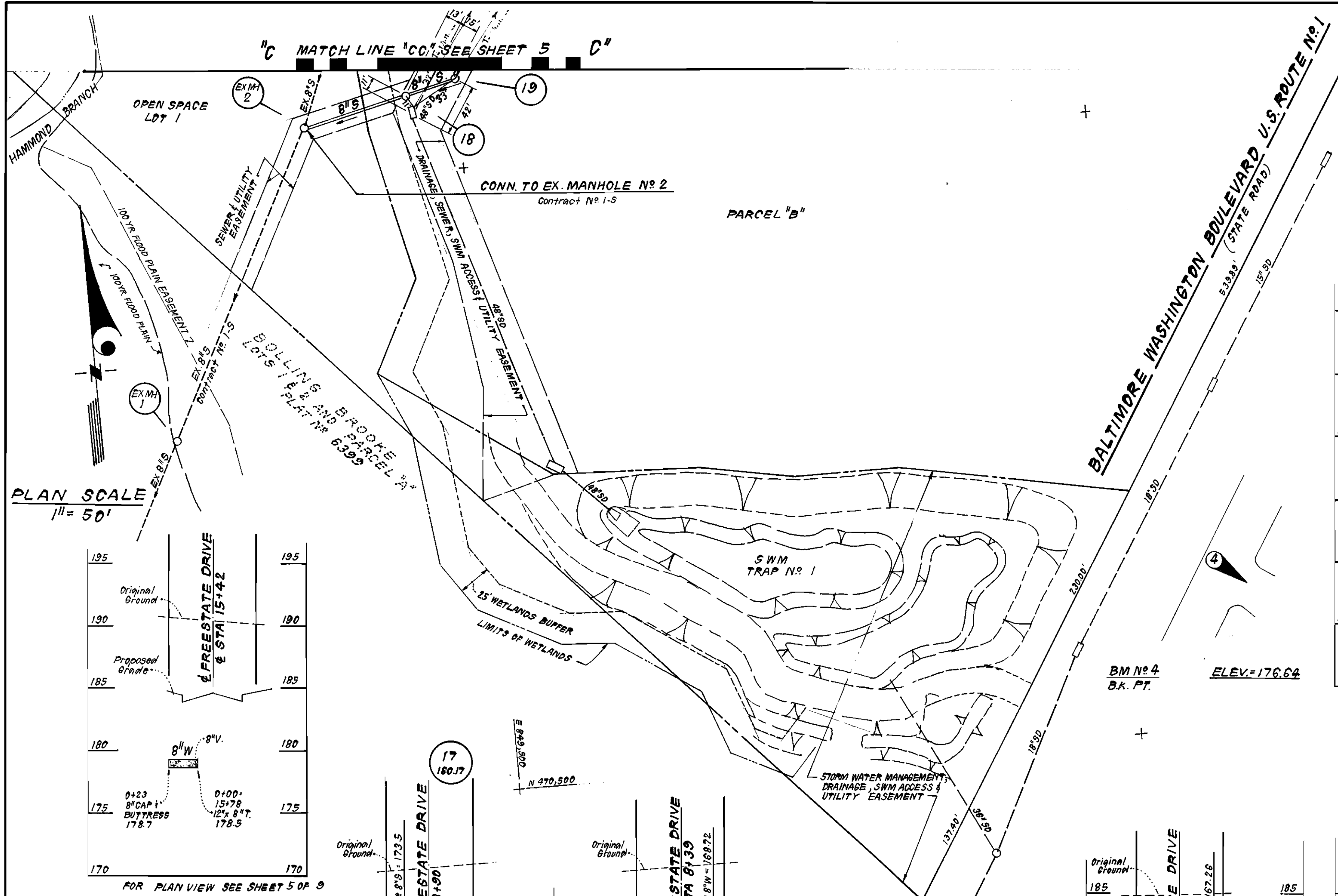
PLAN OF
WATER & SEWER MAINS

FREESTATE
PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
6TH ELECTION DISTRICT
CONTRACT NO. 24-3172-D

SCALE
AS SHOWN
SHEET
5 OF 9

600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

C.F.S. 81-099



PROFILE SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Lewis 5/19/92
DIRECTOR OF PUBLIC WORKS DATE

Richard J. Sauer 5-12-92
CHIEF, BUREAU OF UTILITIES DATE

Richard J. Sauer 5/19/92
CHIEF, BUREAU OF ENGINEERING DATE

Richard J. Sauer 5/19/92
CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK - FINEPROCK & SACKETT, INC.
ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045

(301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: J.T.R.					
DRN: J.T.R.					
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DATE: DEC. 91	BY:	NO.	REVISION	DATE	

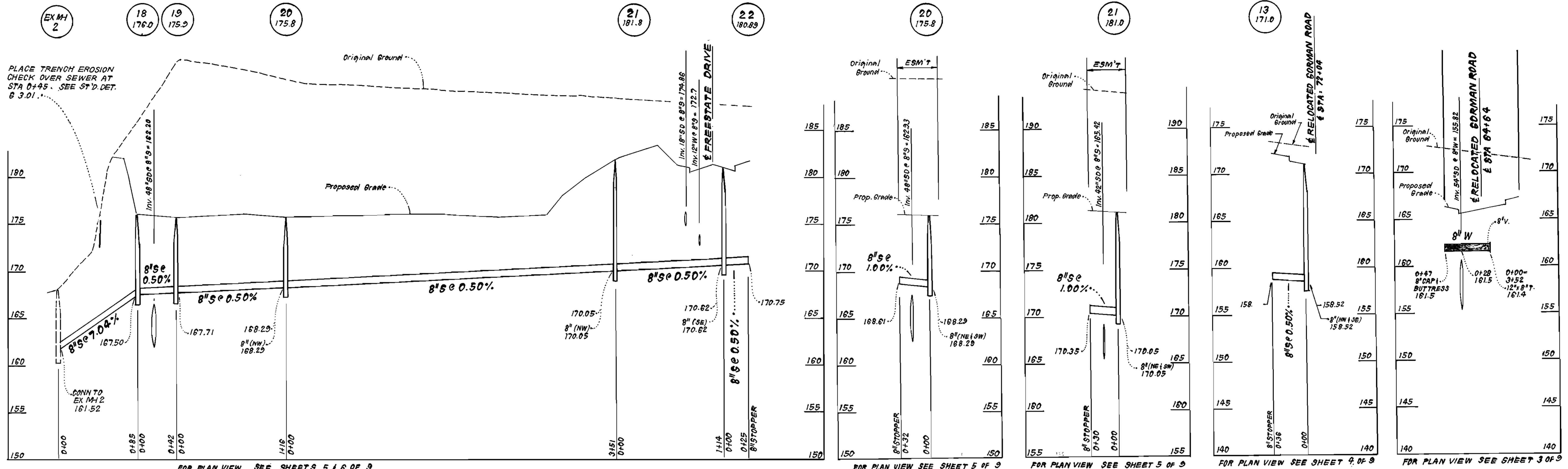
PLAN & PROFILES OF
WATER & SEWER MAINS

60' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

FREESTATE
PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
6TH ELECTION DISTRICT
CONTRACT NO. 24-3172-D

SCALE AS SHOWN

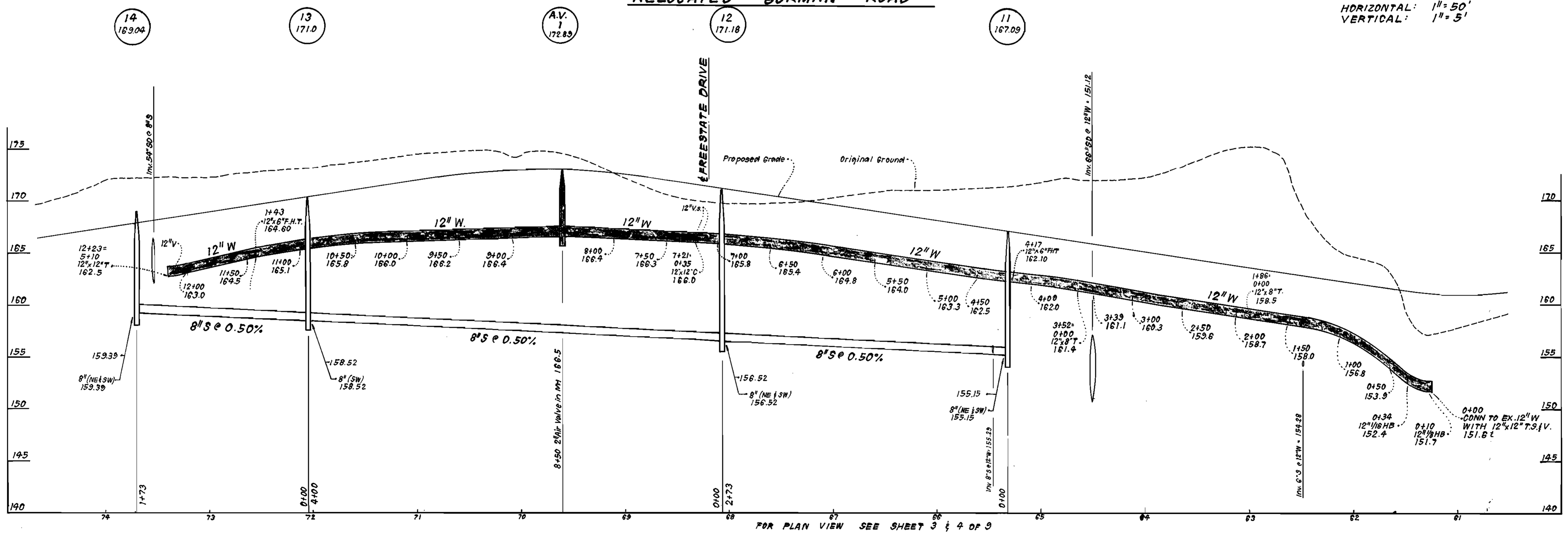
SHEET 6 OF 9



FOR PLAN VIEW SEE SHEETS 5 & 6 OF 9 FOR PLAN VIEW SEE SHEET 5 OF 9 FOR PLAN VIEW SEE SHEET 5 OF 9 FOR PLAN VIEW SEE SHEET 9 OF 9 FOR PLAN VIEW SEE SHEET 3 OF 9

RELOCATED GORMAN ROAD

PROFILE SCALE
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'



FOR PLAN VIEW SEE SHEET 3 & 4 OF 9

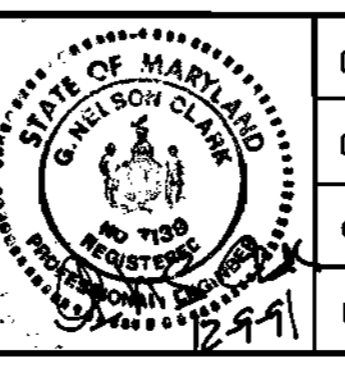
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. Slake, Director of Public Works
 Robert Brunner, Chief, Bureau of Utilities

5-12-92

CLARK - FINEPROCK & SACKETT, INC.
 ENGINEERS - PLANNERS - SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
 (301) 581-7500 BALTO. (301) 621-8100 WASH.



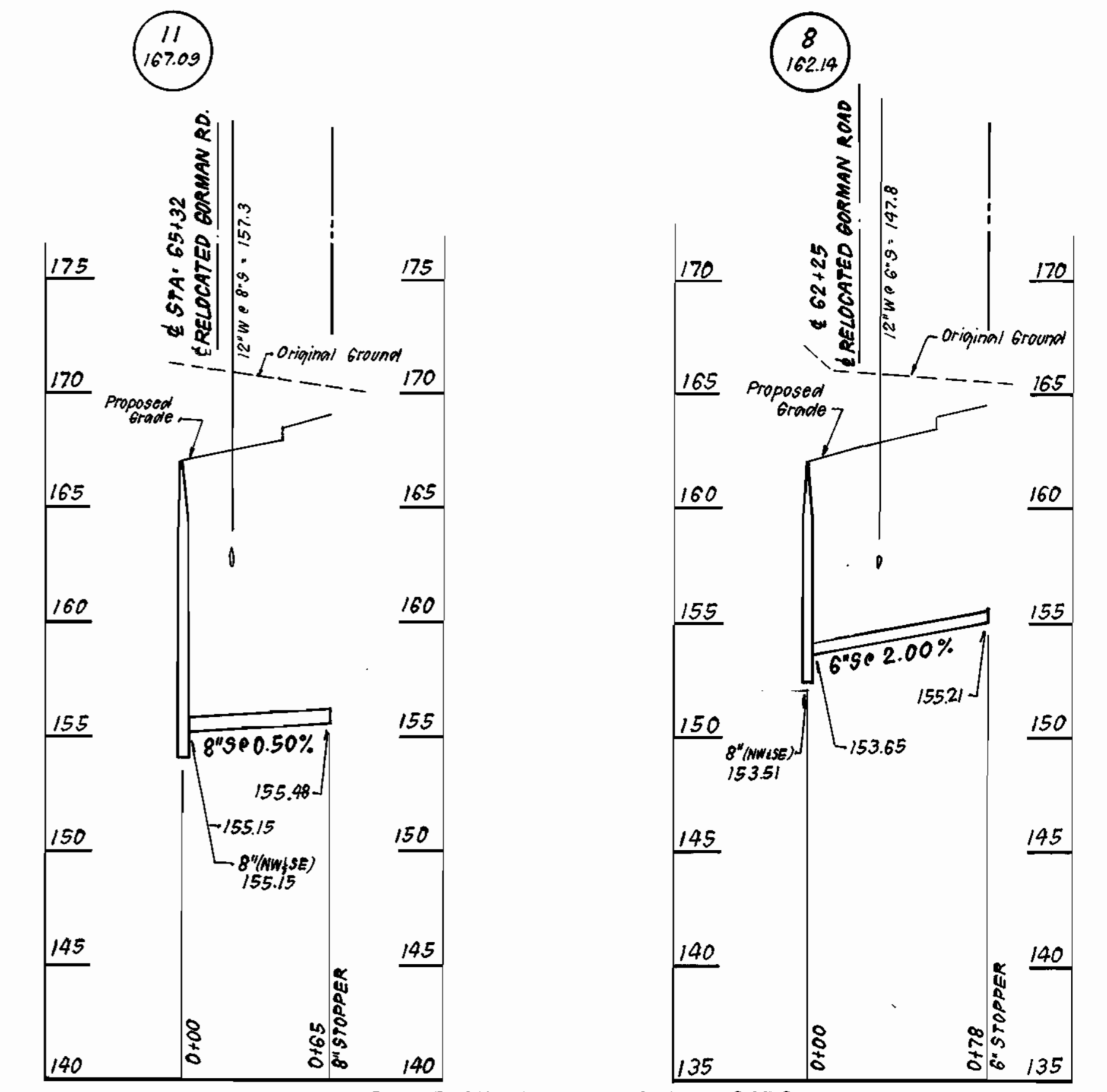
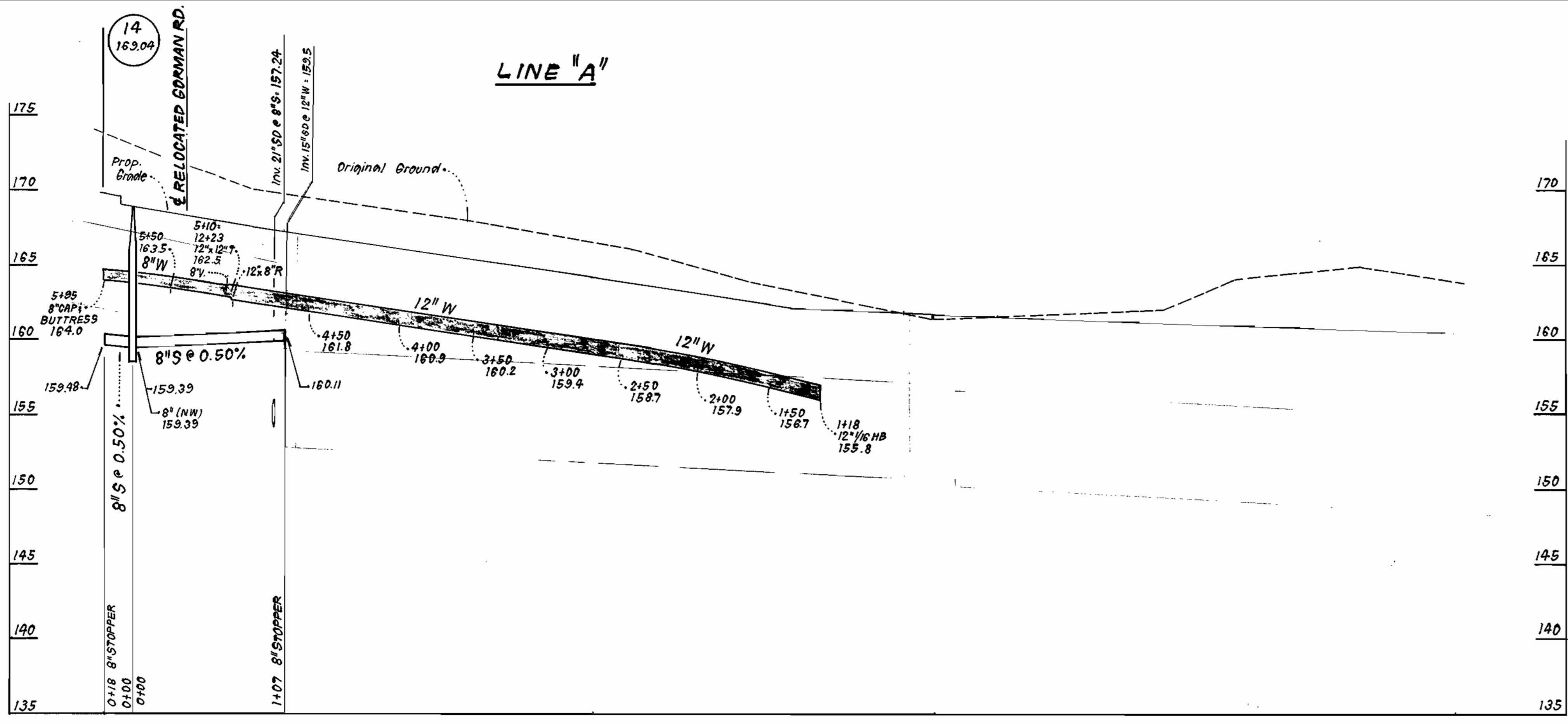
DES. J.T.R.			
DRN. J.T.R.			
CHK. C.C.M.			
DATE: DEC. 91	BY	NO.	REVISION

PROFILES OF
 WATER & SEWER MAINS

600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23

FREESTATE
 PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3
 6TH ELECTION DISTRICT
 CONTRACT NO. 24-3172-D

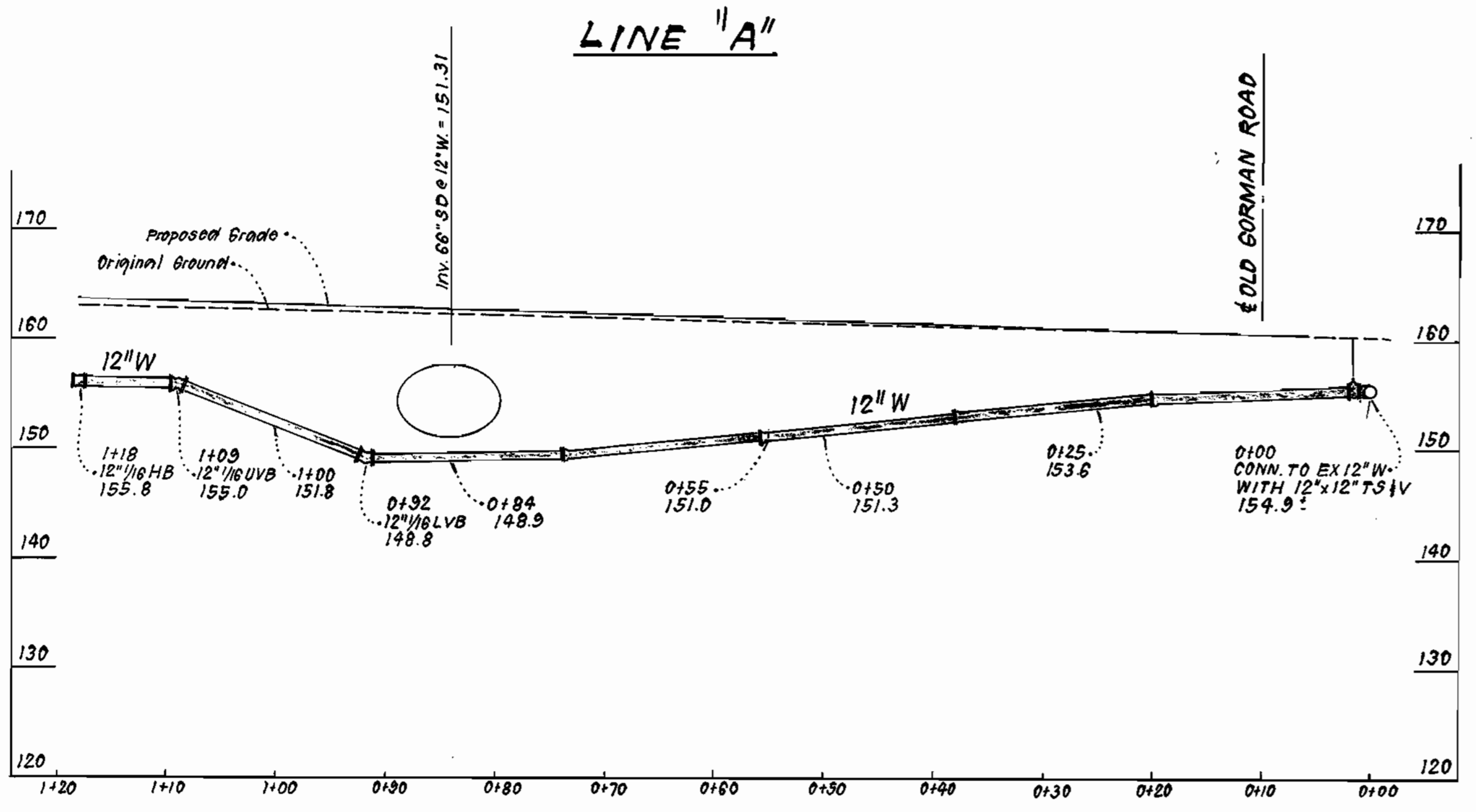
SCALE AS SHOWN
 SHEET 7 OF 9



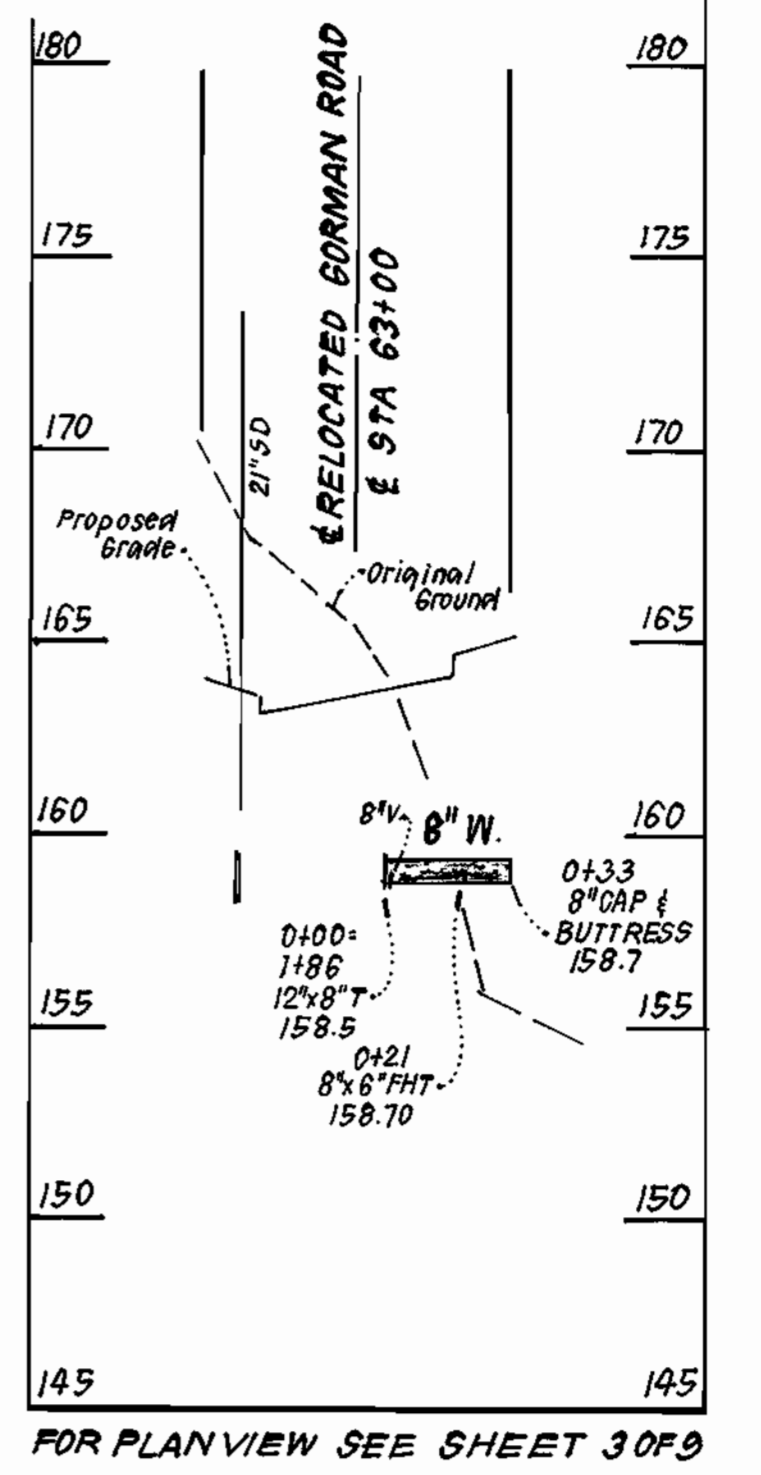
PROFILE SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'

FOR PLAN VIEW SEE SHEET 3 OF 9

FOR PLAN VIEW SEE SHEET 4 OF 9



PROFILE SCALE:
 HOR. & VERT. 1" = 10'



FOR PLAN VIEW SEE SHEET 3 OF 9

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James A. Law</i> 5-19-92 Chief, Bureau of Engineering: <i>Robert Dennis</i> 5-12-92 Chief, Bureau of Utilities: <i>Robert Dennis</i> 5-12-92		CLARK - FINEPROCK & SACKETT, INC. ENGINEERS - PLANNERS - SURVEYORS 7155 MINSTREL WAY COLUMBIA MARYLAND 21045 (301) 381-7500 BALTO. (301) 621-8100 WASH.		DES: J.T.R. DRN: J.T.R. CHK: C.C.M. DATE: DEC. 91		PROFILES OF WATER & SEWER MAINS		FREESTATE PARCELS A, B, C & D, LOTS 1 & 2 AND OUTLOT 3 6 TH ELECTION DISTRICT CONTRACT NO. 24-3172-D		SCALE AS SHOWN SHEET 9 OF 9	
		REVISION BY NO. DATE		600' SCALE MAP NO. 47 BLOCK NO. 17 AND 23							