

CONSTRUCTION SPECIFICATION

- 1. Stone size Use 2"stone or reclaimed or recucled concrete equivalent.
- 2. Length As required, but not less than 50 feet. 3. Thickness - Not less than six (6) inches
- 4. Width Ten (10) foot minimum, but not less than full width at points
- where ingress or earess occurs
- 5. Filter Cloth Will be placed over the entire area prior to placing of stone. 6. Surface Water - All surface water flowing or diverted 'toward' construction entrances shall be piped across the entrance of piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 7. Maintenance The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights of way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public sights-of-way must be removed immediately.
- 8. Washing Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved gediment trapping device.
- 9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE

PERMANENT SEEDING NOTES Apply to graded or cleared areas not subject to immediate further disturbance where a perment long-lived vegetation cover is needed Seed bed 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 fallowing schedules:

 1) Preferred Apply 2 tons per acre dolomités limestore (92 lbs/1000 square foet)
 and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
 Harrow or disc into upper three inches of 60il. At time of seeding, apply 400 lbs
 per acre 30-00 ureatorm fertilizer (9 lbs/1000 sq ft).
- per acre 30-0-0 ureatorm fertilizer (9 105/1000 sq fr).

 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 |bs/1000 sq bt) before seeding. Harrow or also into upper three inches of soil.

 Seeding For the periods March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru Tebruary 28, protect site by: Option (i) 2 tons per acre of well anchored Straw mulch and seed as soon as possible in the Spring. Option (2) Use sool. Option (3) Seed with 60 lbs/ nore Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw. Mulching - Apply 1/2 to 2 tons per nore (70 to 90 lbs/1000 sq ft) of unrotted small grain.

 Straw immediately after seeding. Anohor mulch immediately after application using mulch anchoring tool or 2/8 gallons per acre (5gal/box sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8gal/1000 sq ft) Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term Vegetative cover is needed

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 | bs peracre | 0-10-10 | fertilizer (14 | bs / 1000 sq. ft)

Seeding: For periods March | thru April 30 and from August | 5 thru November | 5, seed with 2 | 2 bushel per acre of annual rue (3.2 | bs / 1000 sq. ft). For the period May | thru August | 4, seed with 3 | bs per acre of weeping | lovegrass (.07 | bs / 1000 sq. ft). For the period November | 6 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 sod.

Mulohing: Apply 1/2 to 2 tons per acre (70 to 30 | bs / 1000 sq. ft) of unrefted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 qal per acre (5 qal / 1000 sq. ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 qal per acre (8 qal / 1000 sq. ft) for anchoring. végétativé cover is needed

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not dovered.

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT. SIGNATURE DATE U.S. SOIL CONSERVATION SERVICE

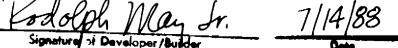
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

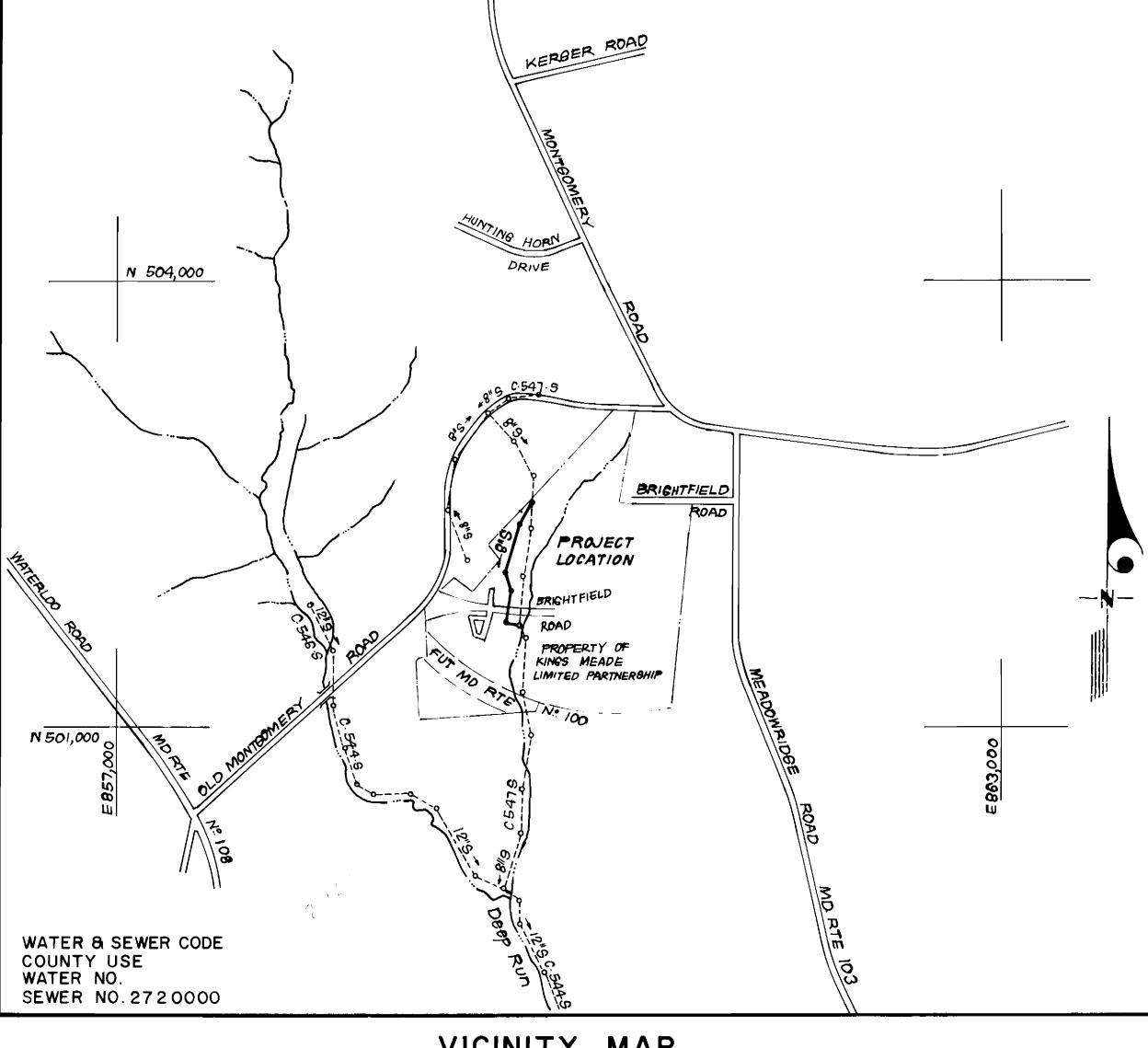
APPROYED: Mushen a trul Howard S.C.D. DATE

DEVELOPER'S, BUILDER'S CERTIFICATE

eccording to this plan of development and plan for erosion and endiment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic onaite inspection by the Howerd Soil Conservation District or their authorized agents, as are deemed necessary."

"I/We certify that all development and construction will be done





VICINITY MAP SCALE : 1" = 600'

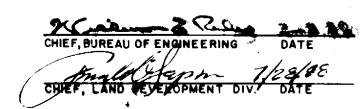
CONTRACT NO.10-1838 - D BRIGHTFIELD SEWER RELOCATION KINGS MEADE LIMITED PARTNERSHIP PROPERTY COUNTY . MARYLAND HOWARD WORKS DEPARTMENT PUBLIC

ENGINEER'S CERTIFICATE

I heraby certify that this plan for Erosion and Budiment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soll Conserva-Hon District

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS





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

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	снк: <i>ССМ</i>					TITL
	DATE:JUN 88					
		BY	NO.	REVISION	DATE	600'SCALE MAP NO. 37

TYPE OF BUILDING	N/A		
NO. OF LOTS	0		
NO. OF WHC's	0		
NO. OF SHC's			
DRAINAGE AREA	Patapsco	<u>.</u>	

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. The Contractor shall have Volume IV on the job.
- 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 - 859 - 9004 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 - 992-2366 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.

TITLE SHEET

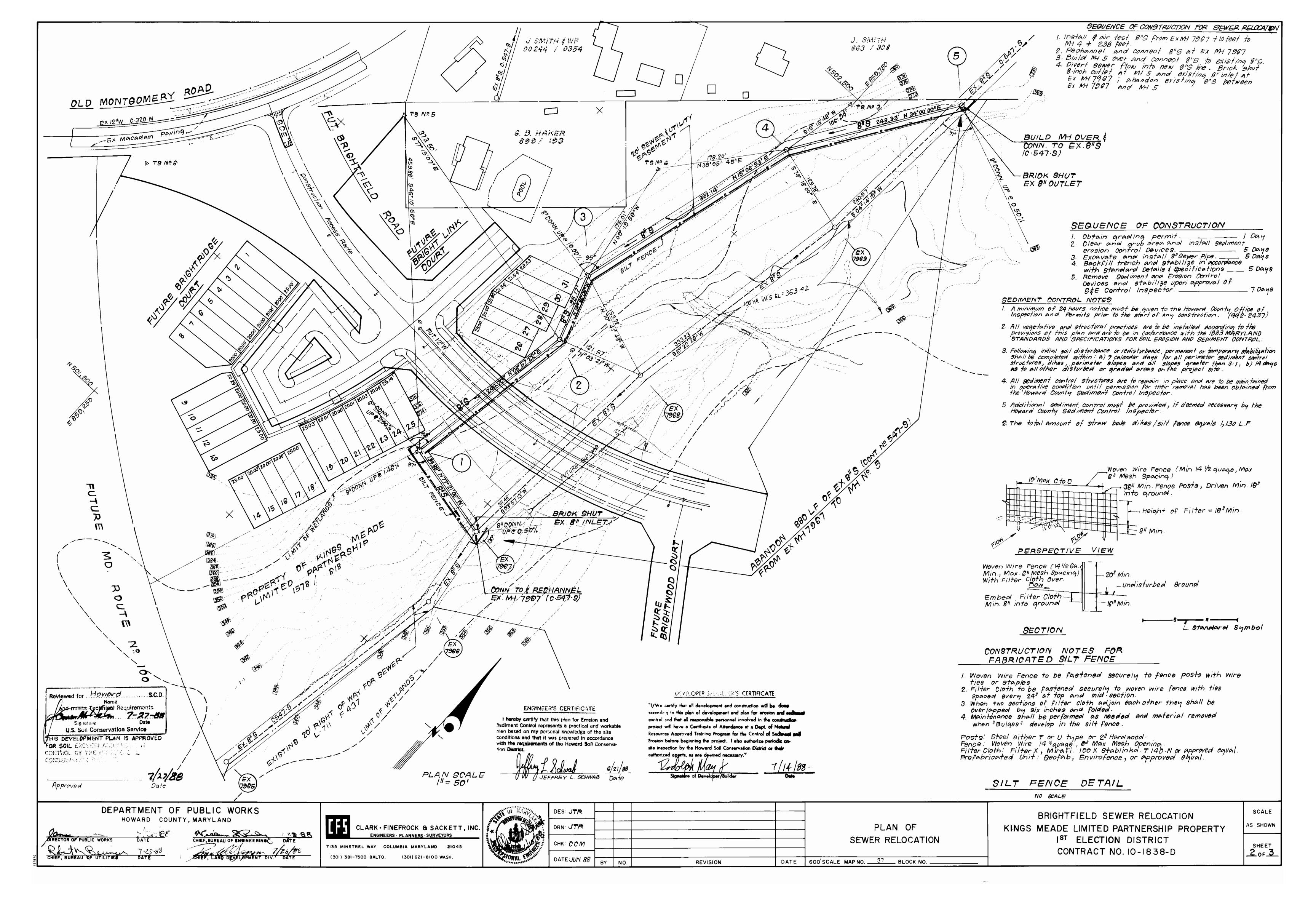
___ BLOCK NO.

- 17. 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 & 1008 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 A.C.P. Class 2400 unless otherwise
- 21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior 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

QUANTITIES					
ITEM	EST'D AS BUILT		MATERIAL / SUPPLIER		
8"8	1,045LF	800.521	8" 9DR - 35 PVC - JM MANUFACTURING CORP.		
4'-0" MH	5 EA	5	ATLANTIC CONCRETE PRODUCTS		
8" CL 52		244.70'	6" CL 32 PUCTILE IRON PIPE - GRIFFIN PIPE PRODUCTS		
8" 5DR · 35	I EA.		6" SDR-35 CAP PVC - HARKINGTON CORP.		
24" WATERTITE MFC	3 EA.		HOWARD COUNTY SAN. SEWER MFC/DEWEY BROTHERS.		
24" WATERTITE	E EA.		DEWEY BROTHER		

BRIGHTFIELD SEWER RELOCATION KINGS MEADE LIMITED PARTNERSHIP PROPERTY IST ELECTION DISTRICT **CONTRACT NO. 10-1838-D**

SCALE AS SHOWN I OF 3



Reviewed for Howard S.C.D.

Name

and meets Technical Requirements

Signature Date

U.S. Soli Conservation Service

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

Approved Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Jeffrey L. SCHWAB Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We cartify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on alte inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature & Developer/Builder Date

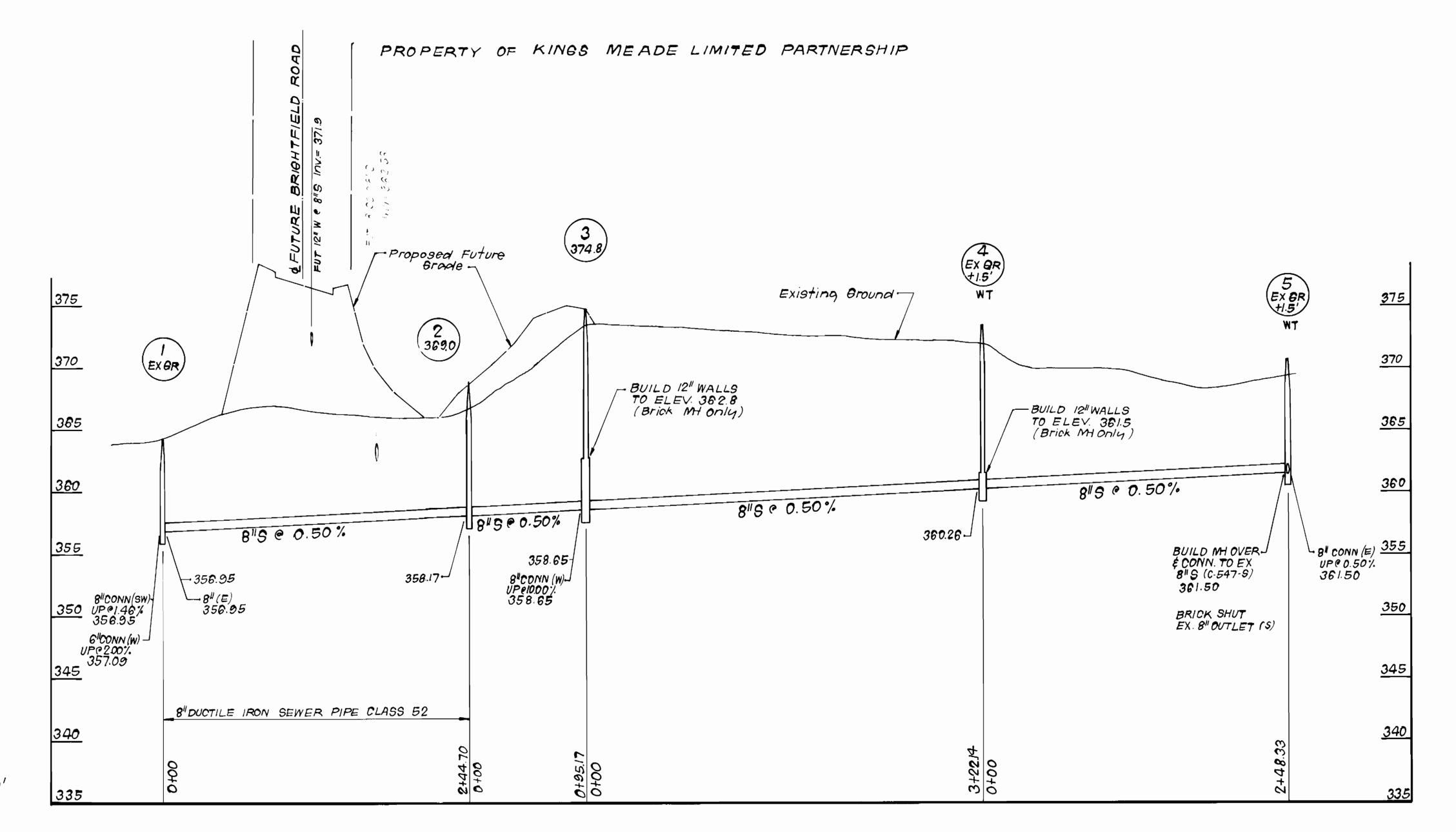
370

EX 6R

365

September 19 | Sept

PROFILE SCALE
HORIZONTAL | = 50'
VERTICAL | = 5'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS

DATE

1-25-99

CHIEF BUREAU OF UTILITIES

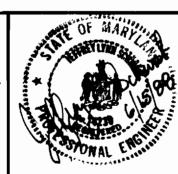
DATE

CHIEF, BUREAU OF ENGINEERING DATE

THEF, LAND DEVELOPMENT DIV. DATE

CLARK • FINEFROCK & SACKETT, INC

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



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BRIGHTFIELD SEWER RELOCATION
KINGS MEADE LIMITED PARTNERSHIP PROPERTY

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CONTRACT NO.10-1838-D

SCALE
AS SHOWN

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3 OF 3