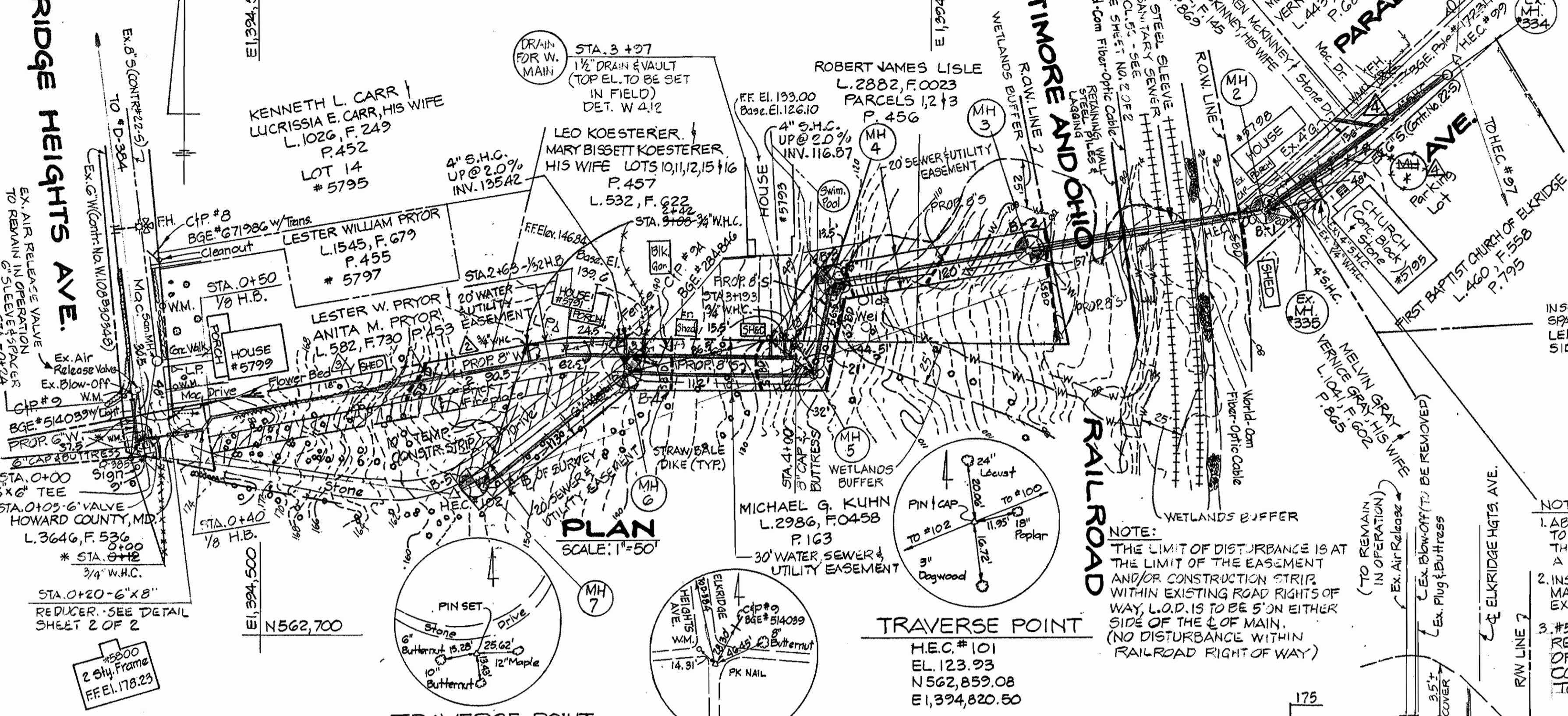


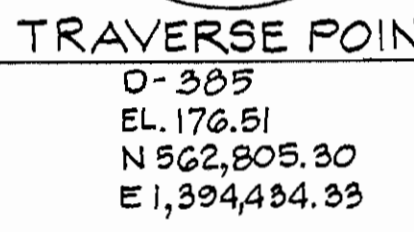
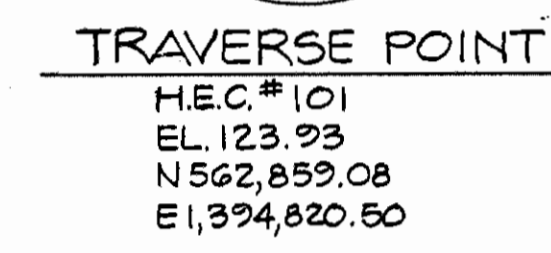
AS-BUILT 1/15/99

ELKRIDGE HEIGHTS AVE.

NOTE: THE CONTRACTOR SHALL NOTIFY MR. LES RICHARDSON MCI REPRESENTATIVE - TELEPHONE (833) 733-0035 OR THE MCI SURVEILLANCE OFFICE AT TELEPHONE 1-800-MCI-WORK, A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.



PLAN SCALE: 1"=50'



STAKEOUT DATA table with columns for MAIN FITTING, DISTANCE, and OFFSET.

* NOTE: RELOCATE EXIST W.M. AND WATER HOUSE CONNECTION FOR #5000 ELKRIDGE HGTS. AVE.

QUANTITIES

Table with columns for ITEMS, QUANTITIES ESTIMATED, QUANTITIES, TYPE, and MANUFACTURER/SUPPLIER.

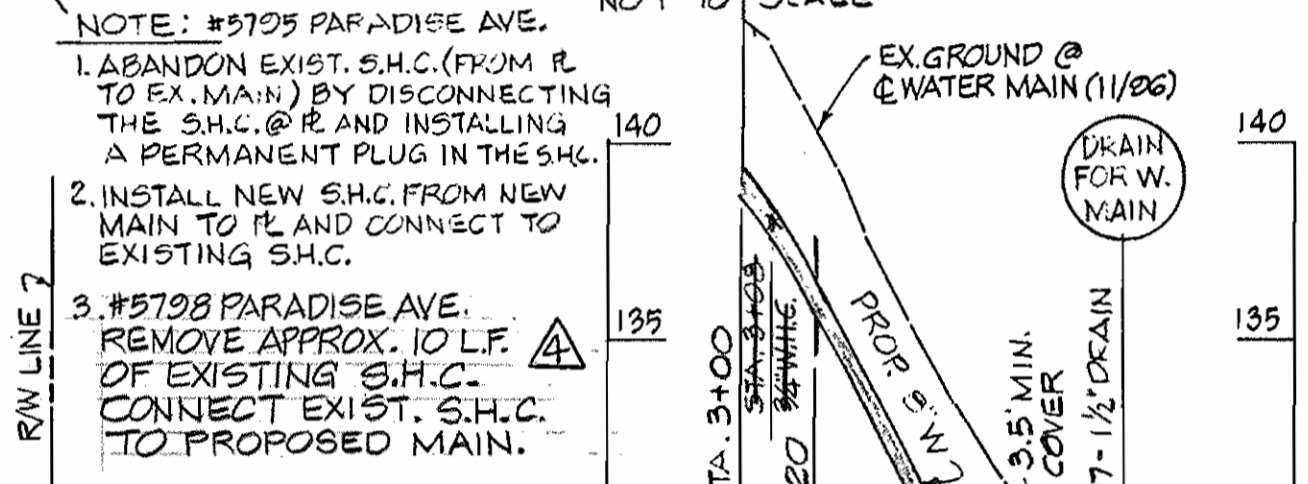
RESTORATION SCHEDULE 8" WATER MAIN

Table with columns for LOCATION, LENGTH, and TYPE for restoration work.

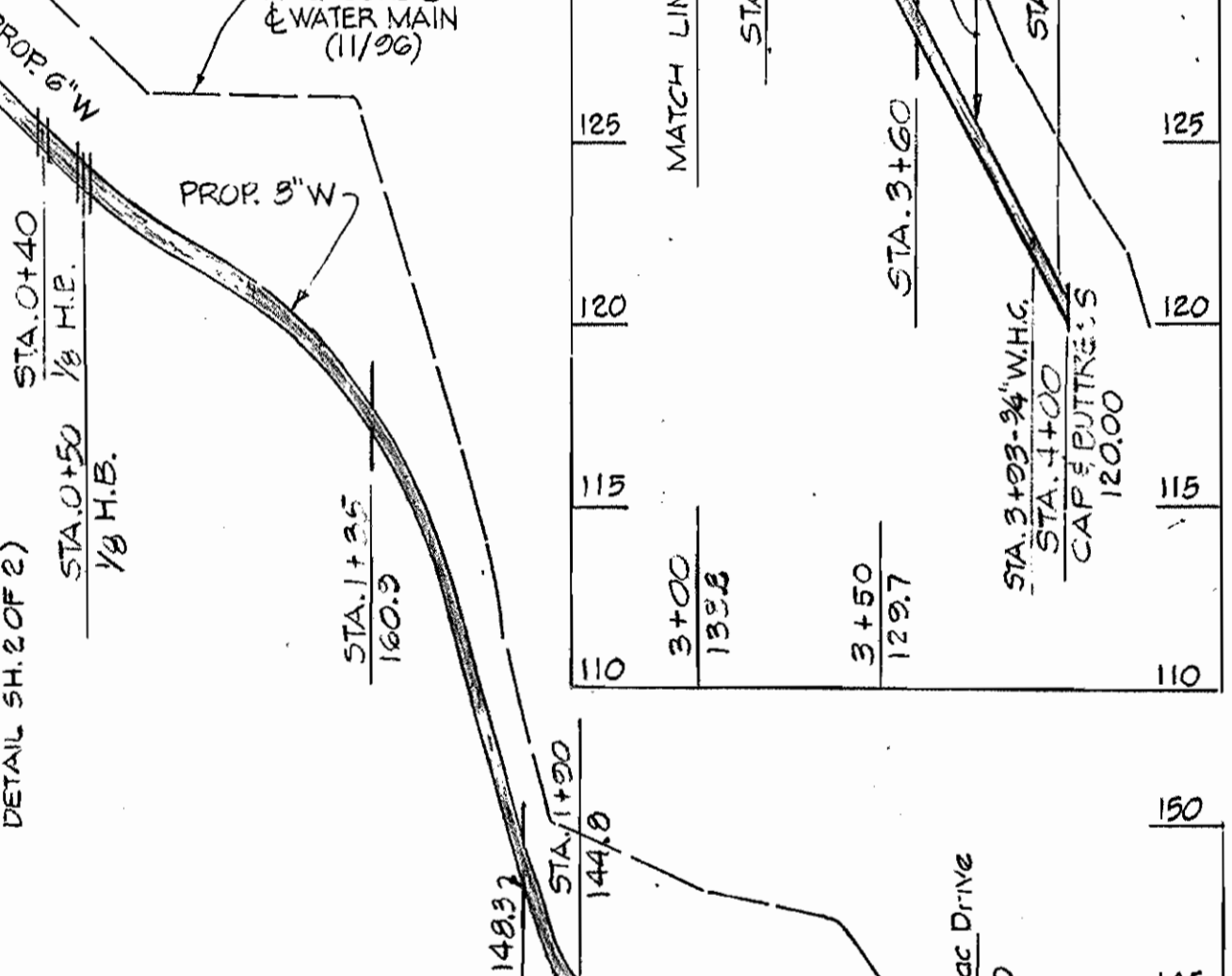
RESTORATION SCHEDULE 8" SANITARY

Table with columns for LOCATION, LENGTH, and TYPE for sanitary restoration work.

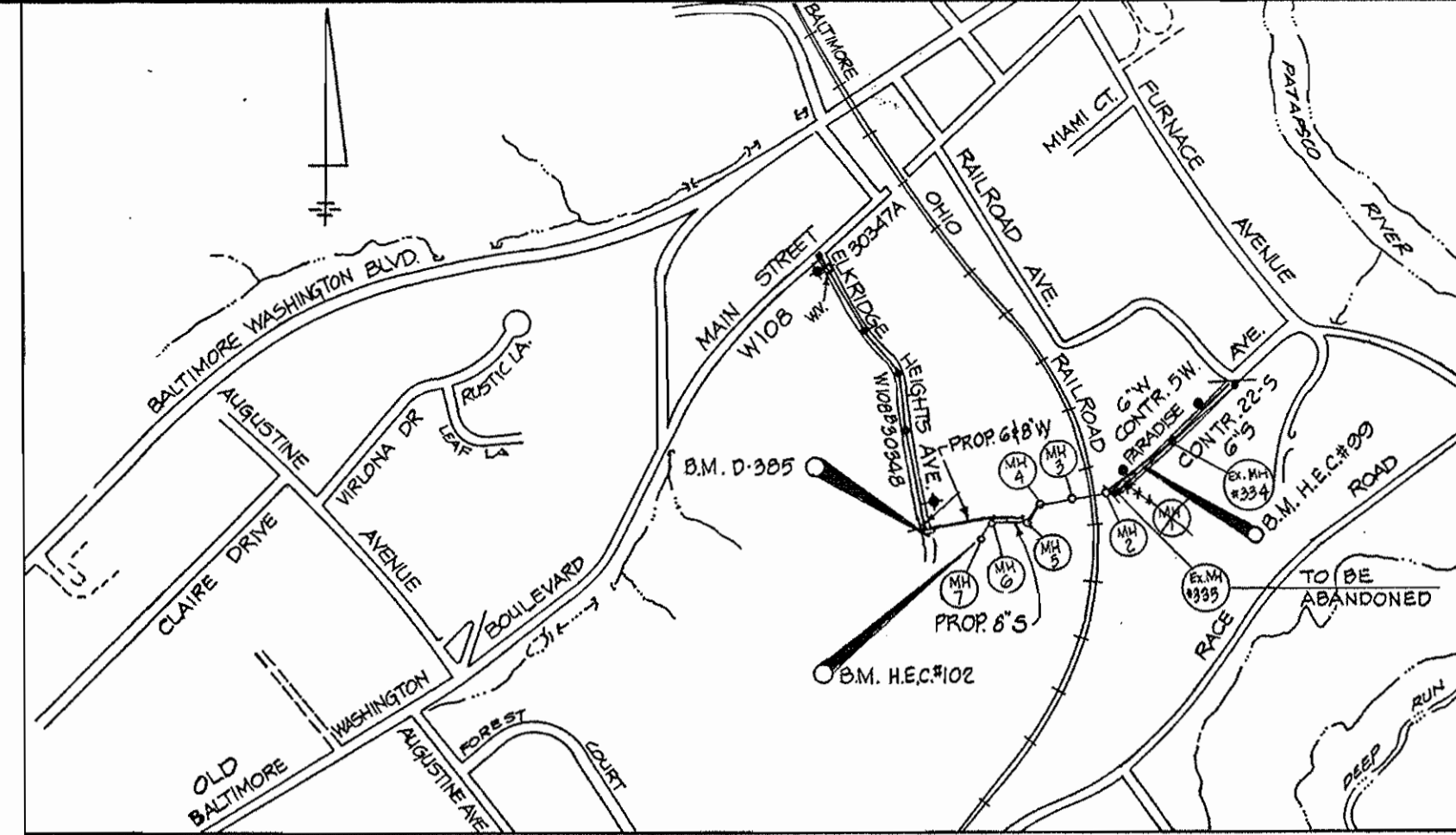
DETAIL FOR BORING & JACKING AT BALTO. & OHIO R.R. CROSSING



NOTE: #5795 PARADISE AVE. NOT TO SCALE



PROFILE SCALE: HOR. 1"=50' VERT. 1"=5'



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 service.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.
5. Clear all utilities by a minimum of 6'. Clear all poles by 5'-0" minimum or tunnel as required.
6. 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 (Latest Edition).
7. Where test pits have been made on existing utilities, they are noted by the symbol X at the location of the test pit.
8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
9. Trees and shrubs are to be protected from damage to the maximum extent.
10. Contractor shall remove trees, stumps and roots along line of excavation.
11. 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 trenchless installation operation in county roads for laying water/sewer mains or house connections.

WATER NOTES

- 1. All water mains shall be D.I.P. Class 52 unless otherwise noted.
2. Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard details unless otherwise provided for on the drawings.
5. Fire hydrants shall be set to the bury line elevations shown on the drawings.
6. The Contractor shall not operate any water main valves on the existing water system.

SEWER NOTES

- 1. All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
2. All manholes shall be 4'-0" inside diameter unless otherwise noted.
3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick manholes only.
5. Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail G5.2.
6. House(s) with the symbol 'C.N.S.' indicates cellar cannot be served.

M.D.E. APPLICATION TRACKING NO. 100761600 NON-TITIAL WETLANDS NO. 07-NT-0058 PROJECT CLASSIFICATION: CATEGORY I ACTIVITY UNDER THE MDSPPG

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

DEVELOPER'S CERTIFICATION: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

ENGINEER'S CERTIFICATION: I 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 COUNTY SOIL CONSERVATION DISTRICT.

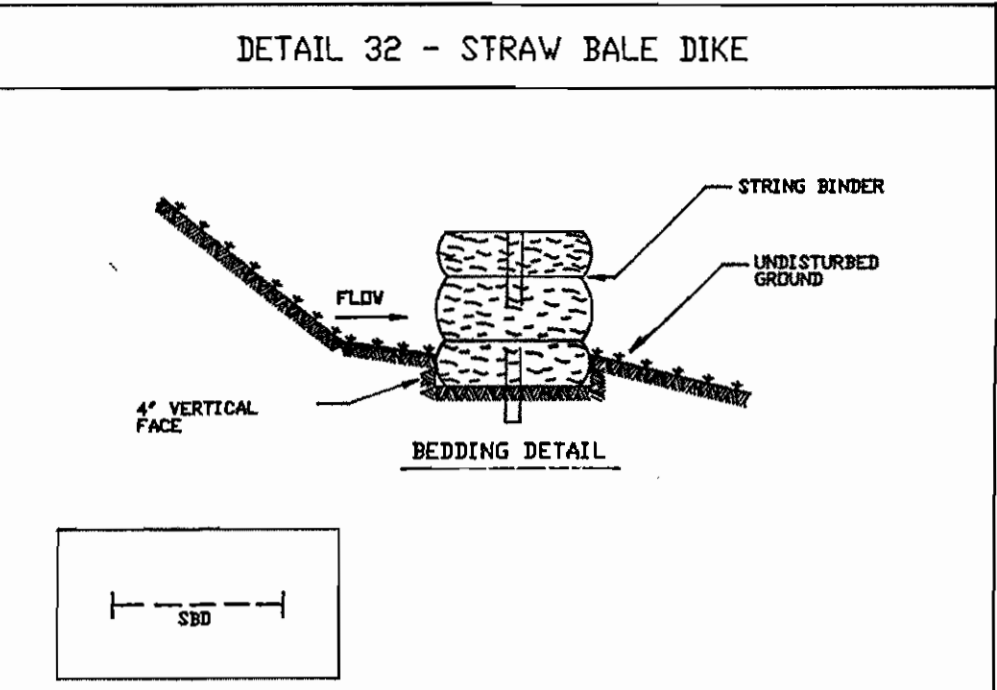
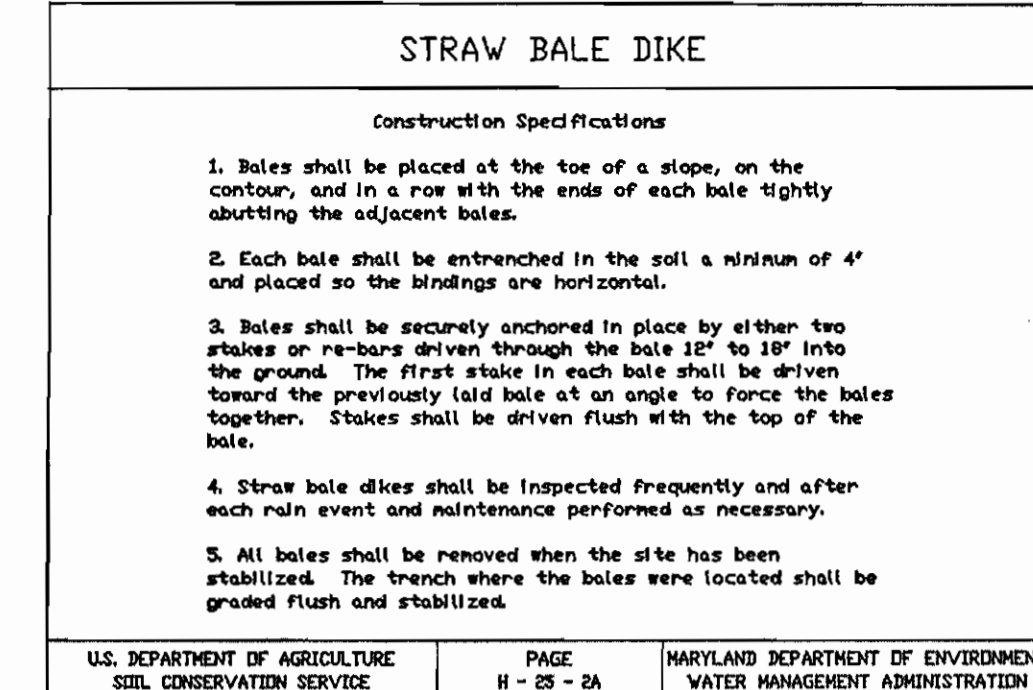
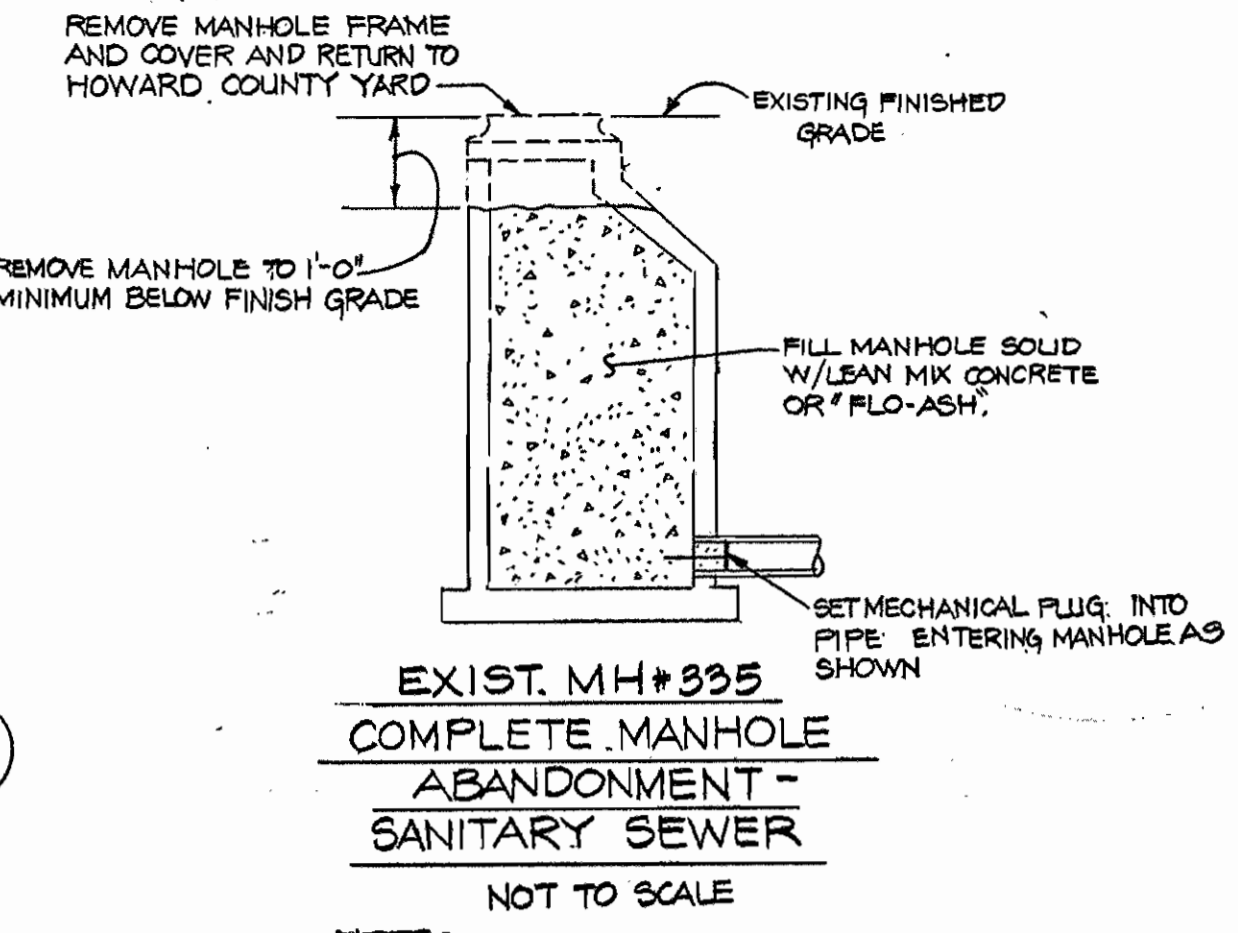
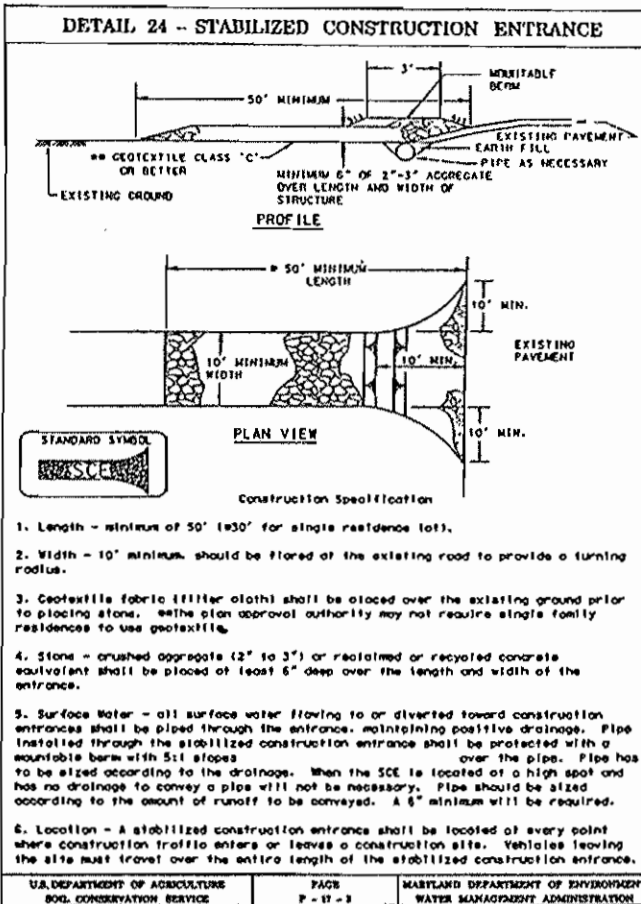
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Director of Public Works, Chief, Bureau of Engineering.

HICKS ENGINEERING CO., INC. ENGINEERS, SURVEYORS & PLANNERS. 200 EAST JOPPA ROAD, SUITE 402, TOWSON, MARYLAND 21286-3160.

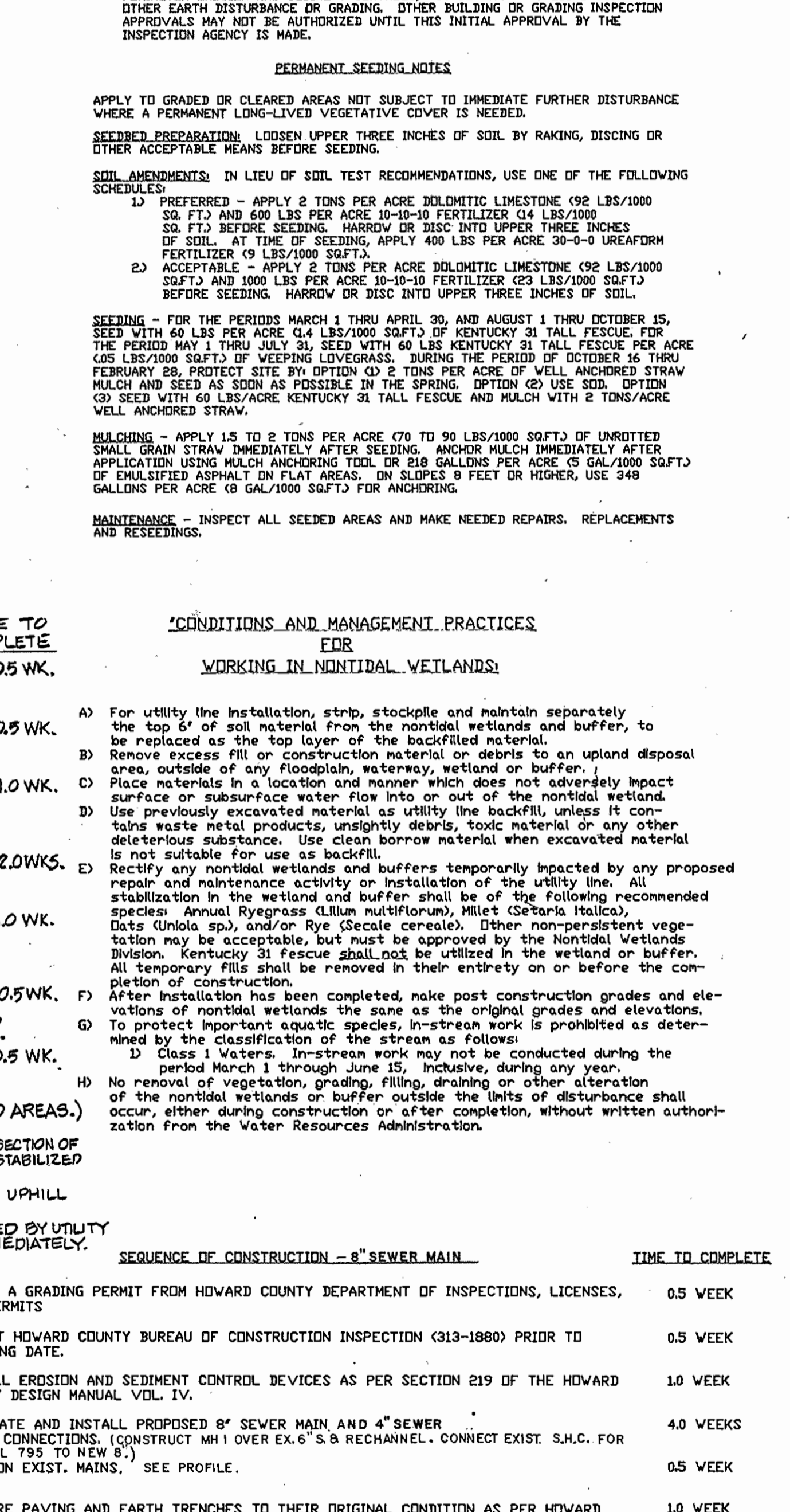
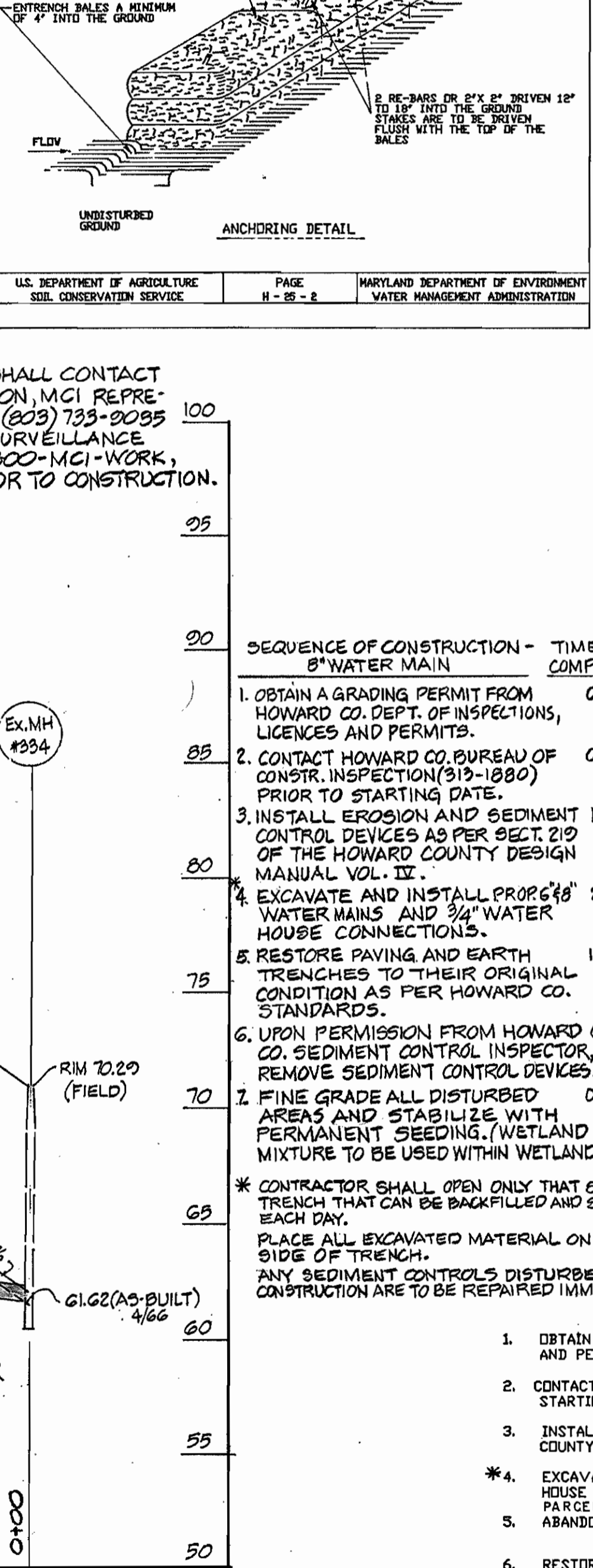
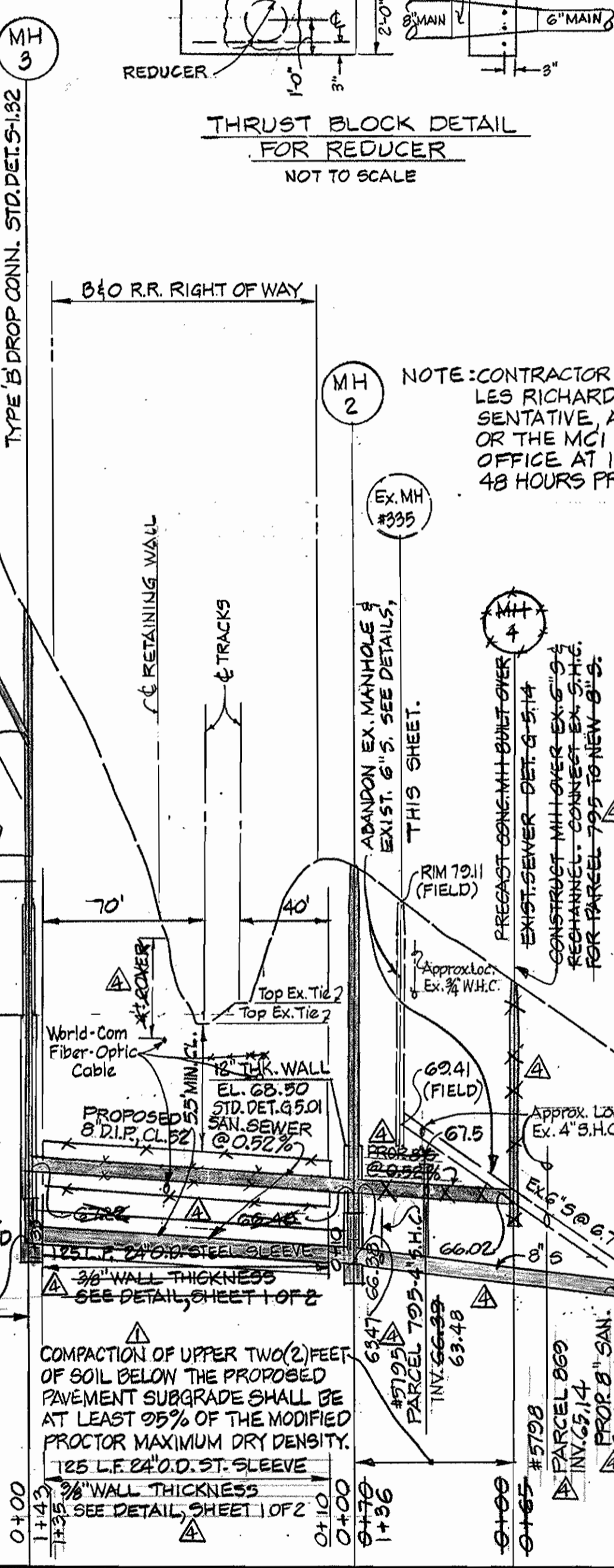
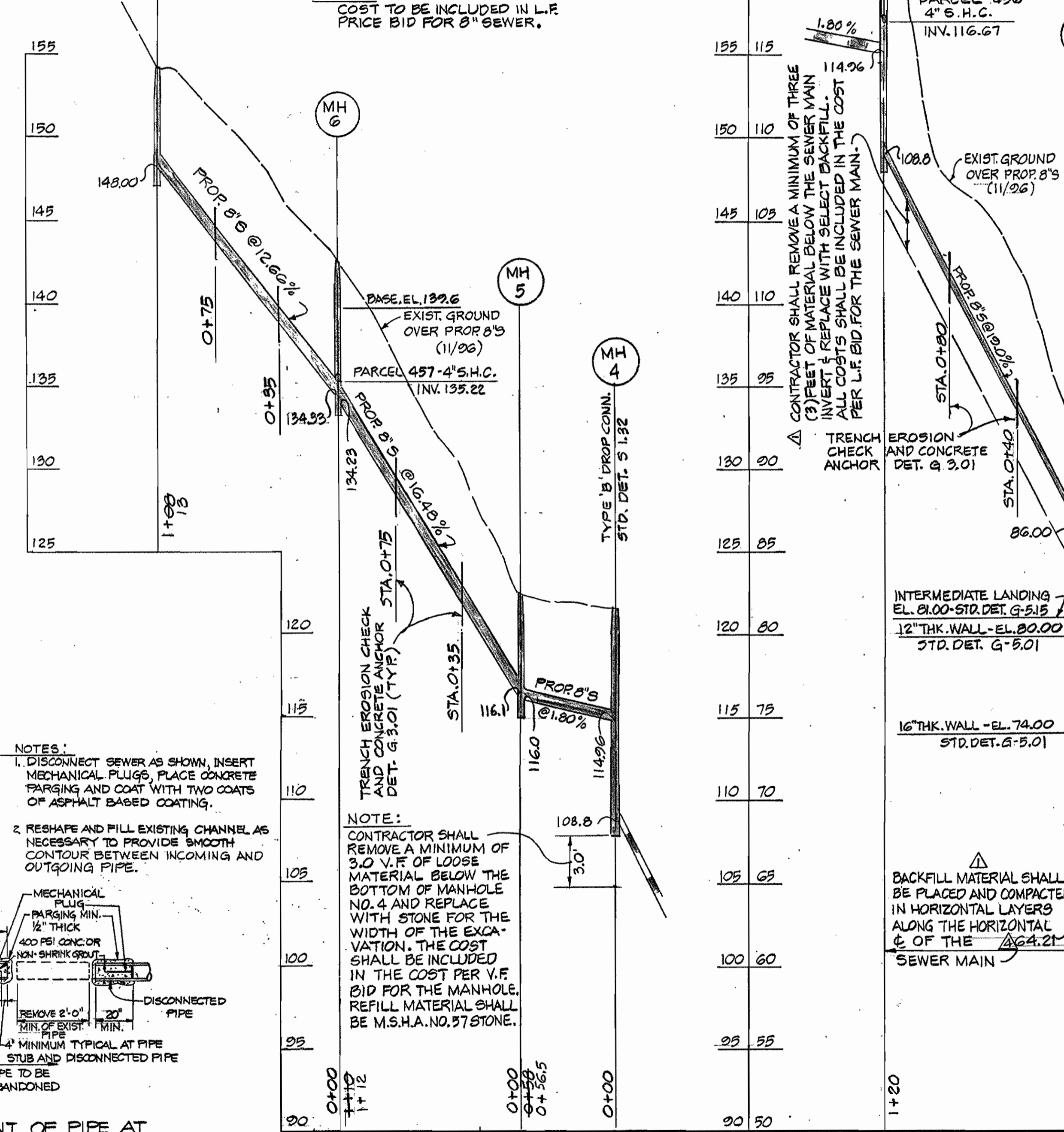
DESIGN LOG table with columns for DES., DRN., CHK., DATE, BY, NO., REVISION, DATE.

PLAN & PROFILE 8" SEWER MAIN & 6" WATER MAIN

ELKRIDGE HEIGHTS AVE. WATER & SEWER MAINS 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT S-6201 CONTRACT NO. 14-3597



- SEDIMENT CONTROL NOTES
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIOR TO THE START OF ANY CONSTRUCTION...
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES...
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...
6. 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...
7. SITE ANALYSIS: TOTAL AREA OF SITE N/A ACRES; AREA DISTURBED 0.59 ACRES; AREA TO BE RESEED OR PAVED 0.02 ACRES; AREA TO BE VEGETATIVELY STABILIZED 0.57 ACRES; TOTAL CUT 1.275 CU. YDS.; TOTAL FILL 1.275 CU. YDS.
8. OFFSITE WASTE/BORROW AREA LOCATION-SITE WITH A CURRENT, ACTIVE GRADING PERMIT. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. IN 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.
PERMANENT SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
1. PREFERRED - APPLY 2 TONS PER ACRE BOLD MITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/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 UREAFORM FERTILIZER (9 LBS/1000 SQFT).
2. ACCEPTABLE - APPLY 2 TONS PER ACRE BOLD MITIC LIMESTONE (92 LBS/1000 SQFT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQFT) 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 LBS/1000 SQFT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JUNE 31, SEED WITH 60 LBS PER ACRE (14 LBS/1000 SQFT) OF KENTUCKY 31 TALL FESCUE PER ACRE (14 LBS/1000 SQFT) OF WEEPING LIVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROVIDE 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS FEASIBLE IN THE SPRING. OPTION (2) USE SOIL OPTION (2) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
MULCHING - APPLY 15 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQFT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TIED OR 218 GALLONS PER ACRE (5 GAL/1000 SQFT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (18 GAL/1000 SQFT) FOR ANCHORING.
MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works: Robert W. Beinger
Chief, Bureau of Engineering: Robert W. Beinger
Chief, Water & Sewer Design Div.: Robert W. Beinger

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
210 EAST JORPA ROAD - SUITE 402
TOWSON, MARYLAND 21286-3160
(410) 494-0001

Table with columns: DES, DRN, CHK, DATE, BY, NO., REVISION, DATE. Includes notes about sheet additions and revisions.

PROFILE & DETAIL SHEET
600' SCALE MAP NO. S-38/W-38 BLOCK NO. 4/4

ELKRIDGE HEIGHTS AVE. WATER & SEWER MAINS
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT S-6201
CONTRACT NO. 14-3597
SHEET 2 OF 2
AS-BUILT 1/15/99