

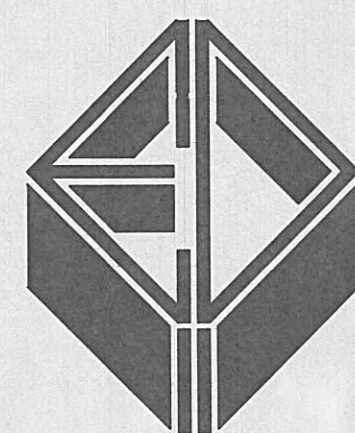
CONSTRUCTION PLANS
FOR
SANITARY SEWER LINE REPLACEMENT

FOR
HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE

CONTRACT S99-01

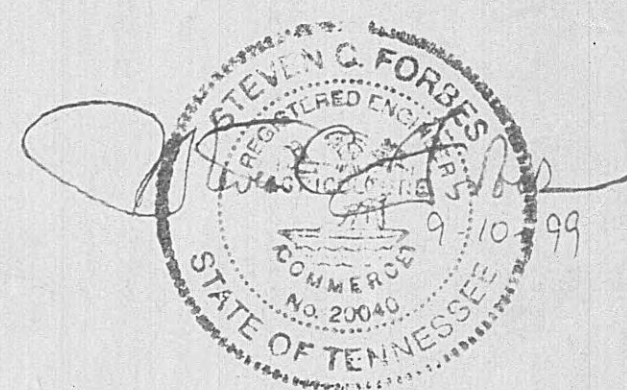
CDBG NO. Z-99-092247-00

AUGUST, 1999

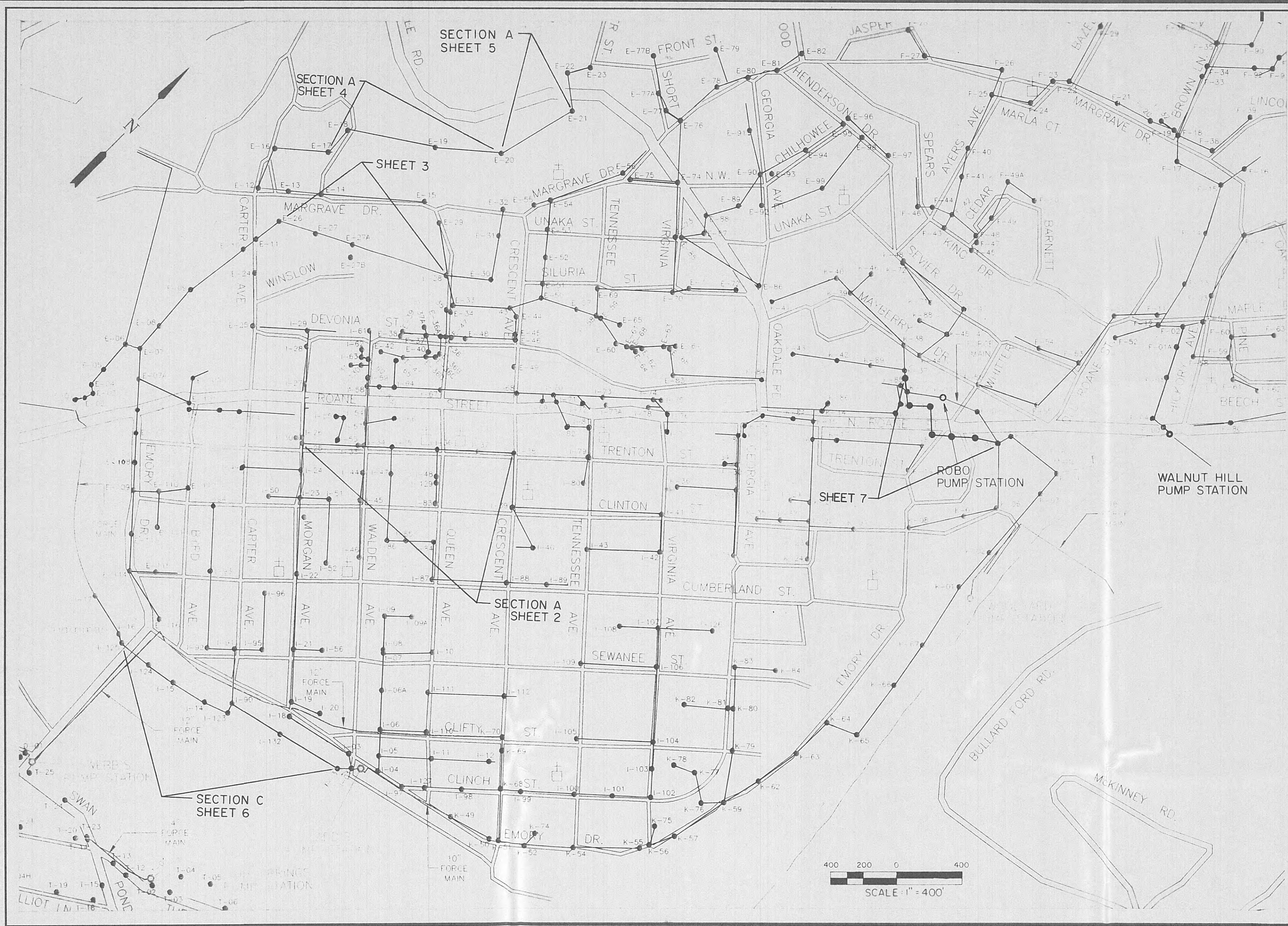


ELROD · DUNSON INC.
CONSULTING ENGINEERS

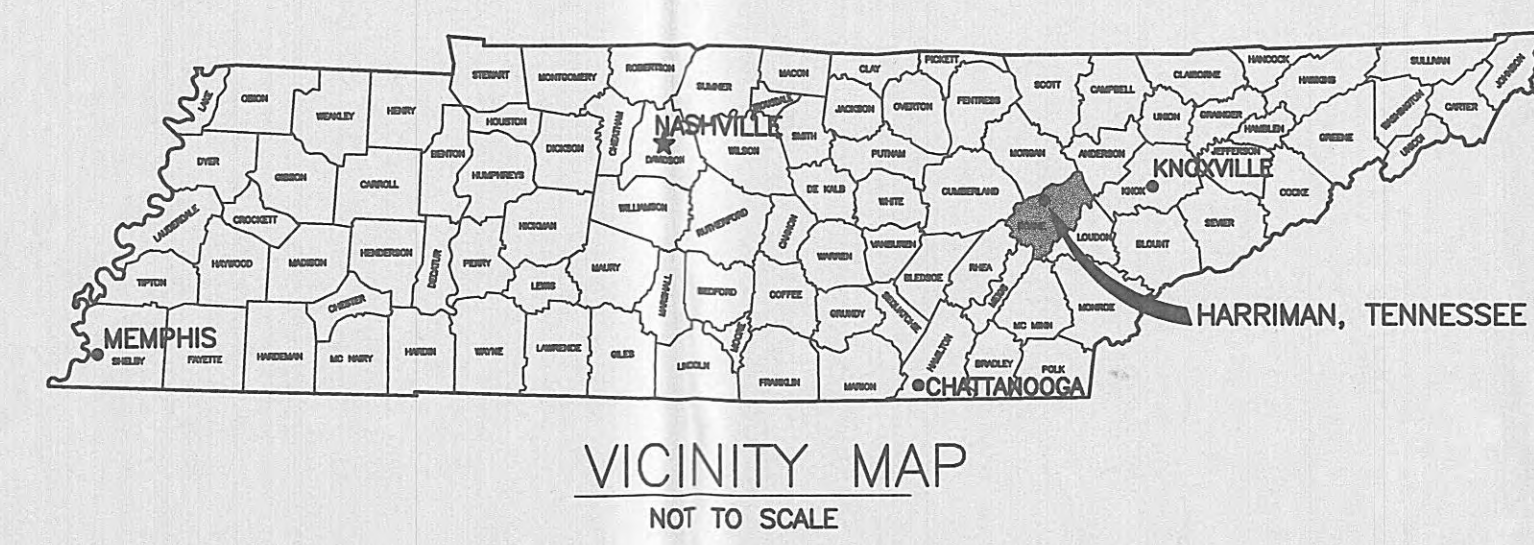
Nashville · Knoxville
Bowling Green, KY



PROJECT NO. 1498



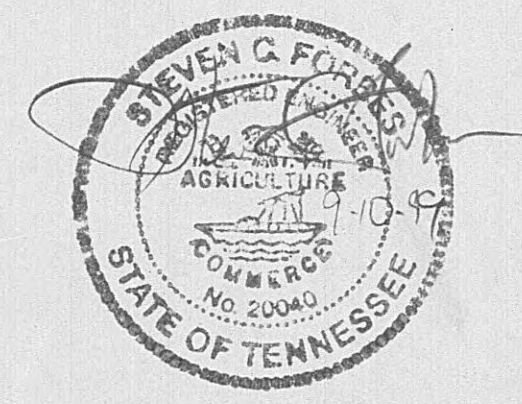
LOCATION MAP
SCALE: 1" = 400'



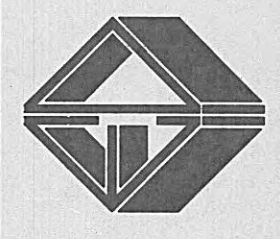
INDEX OF SHEETS

1. LOCATION MAPS, GENERAL NOTES AND INDEX OF SHEETS
2. SEWER PLAN-PROFILE TRENTON STREET (MORGAN AVE. TO CRESCENT AVE.)
3. SEWER PLAN-PROFILE CARTER AVE. TO QUEEN AVE.
4. SEWER PLAN-PROFILE SECTION "A" M.H. E-17 TO M.H. E-20
5. SEWER PLAN-PROFILE SECTION "A" M.H. E-20 TO M.H. E-21
6. SEWER PLAN-PROFILE SECTION "C" M.H. I-121 TO M.H. I-125
7. SEWER PLAN-PROFILE ROANE STREET AT ROBO CARWASH
8. GRAVITY SEWER STANDARD DETAILS

NOTE TO CONTRACTOR:
ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, AND TELEPHONE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.



ELROD · DUNSON, INC.
CONSULTING ENGINEERS
NASHVILLE · KNOXVILLE
BOWLING GREEN, KY

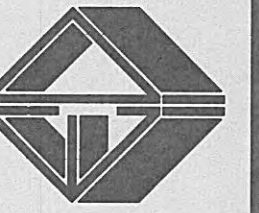


CONTRACT S99-01
HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE
LOCATION MAPS, GENERAL NOTES AND INDEX OF SHEETS

REVISIONS

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: AS NOTED
PROJ. NO. 1498

SHEET 1
OF 8



CONTRACT S99-01

HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE

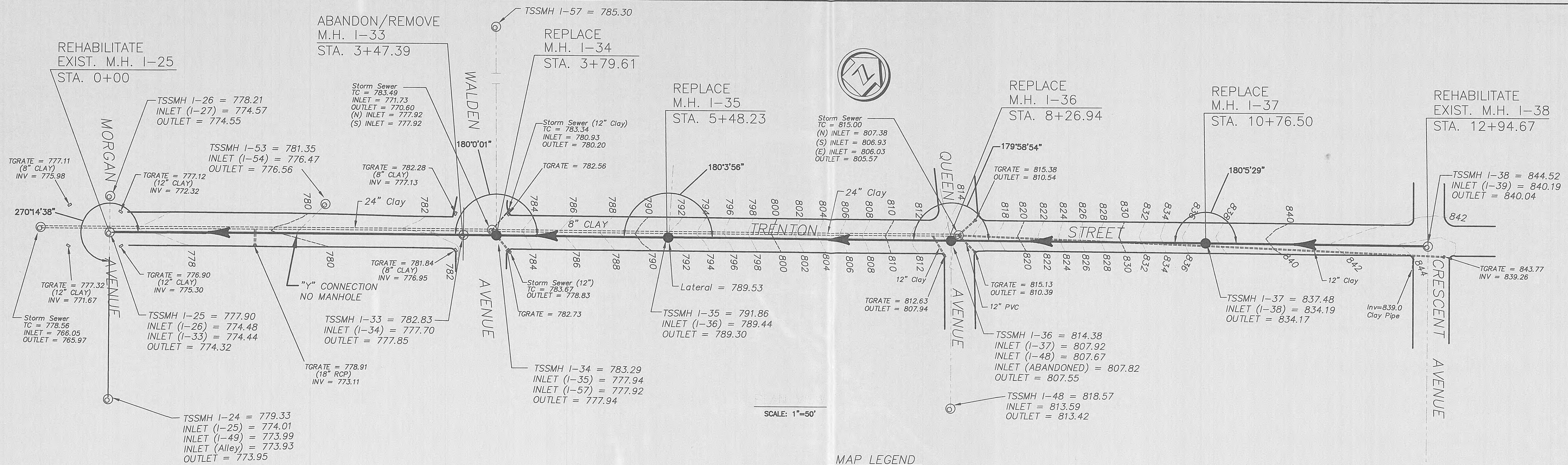
PLAN—PROFILE TRENTON STREET
(MORGAN AVE. TO CRESCENT AVE.)

REVISIONS

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: 1" = 50' H
PROJ. NO. 1498

SHEET 2

OF 8



SCALE: 1"=50'

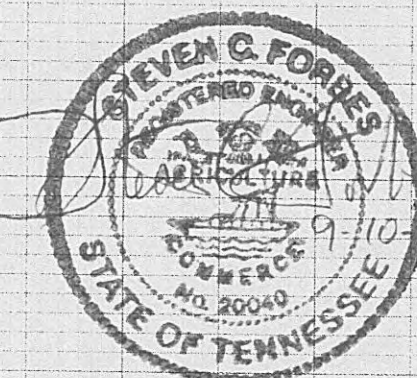
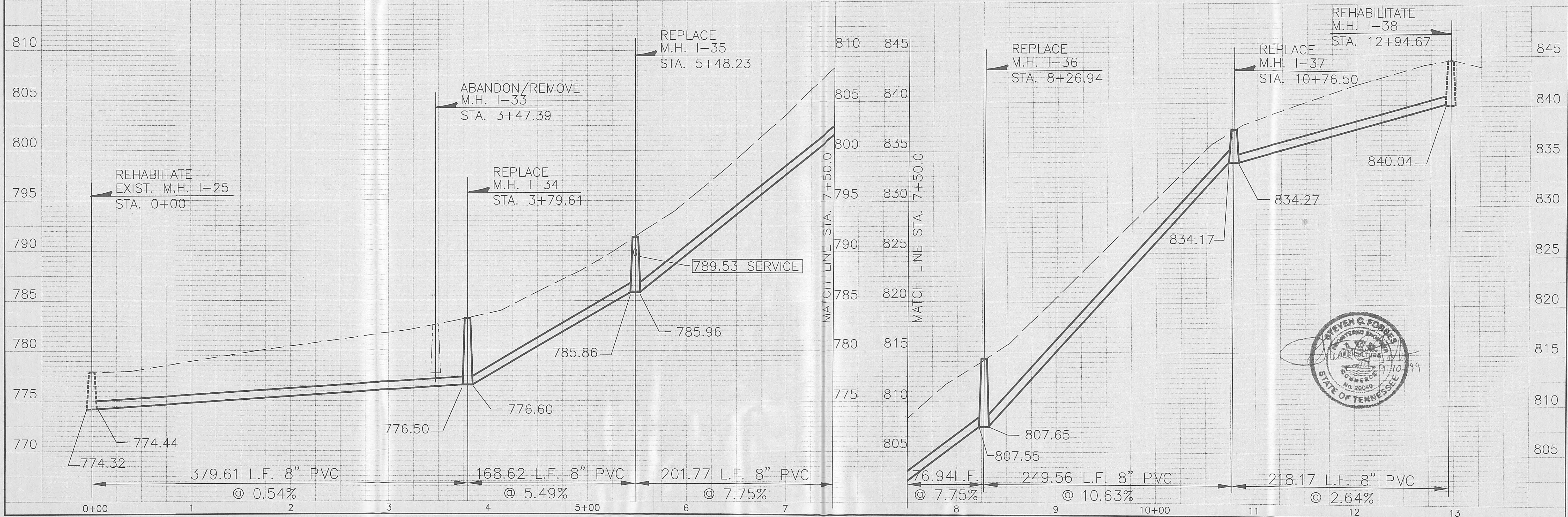
MAP LEGEND

- Existing Manhole
- 8" Clay Pipe Sanitary Sewer Main
- Water Main
- 2' Contour
- 10' Contour
- Proposed Manhole
- Proposed Sanitary Sewer Main

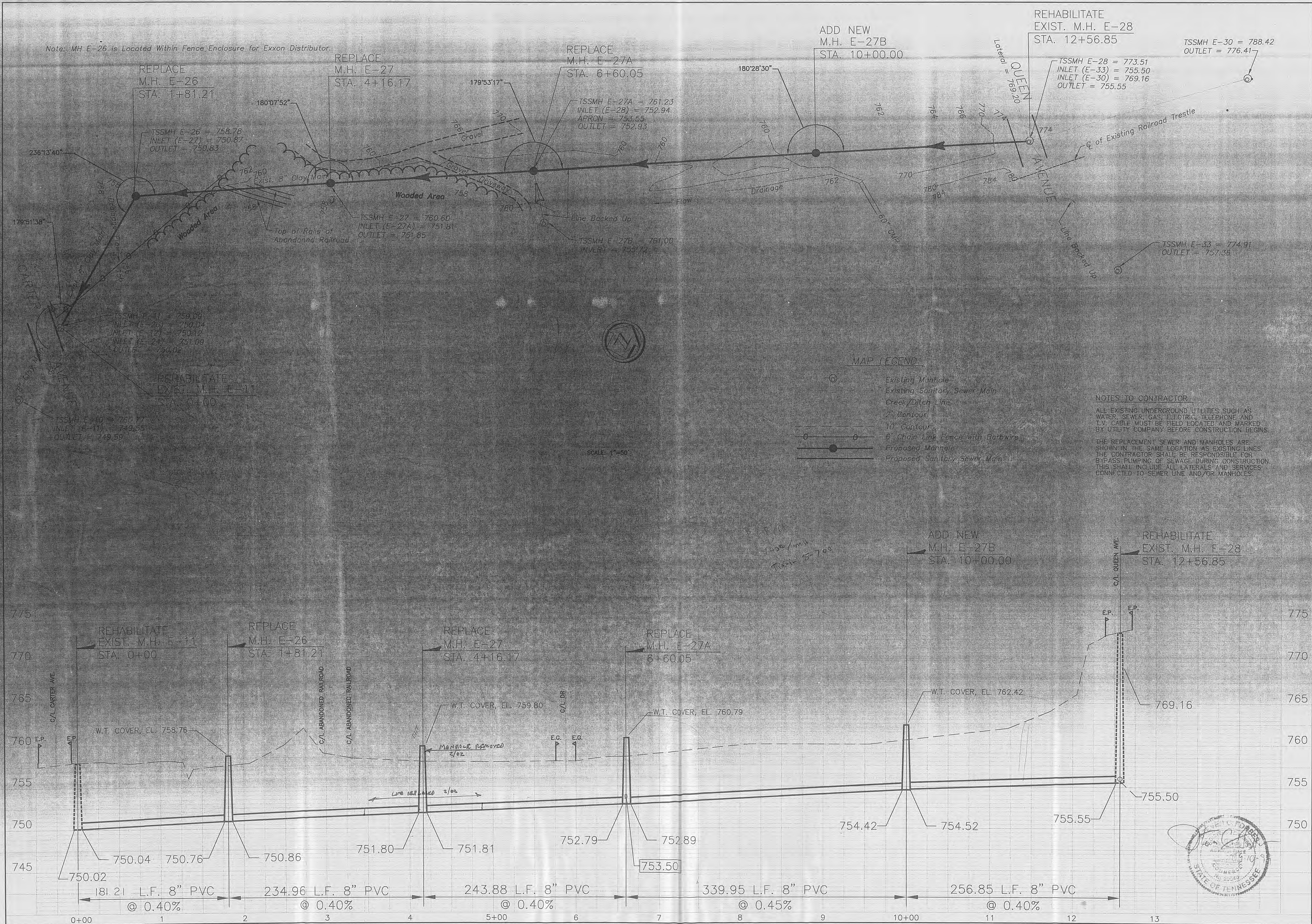
NOTES TO CONTRACTOR

ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND T.V. CABLE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.

THE REPLACEMENT SEWER AND MANHOLES ARE SHOWN IN THE SAME LOCATION AS EXISTING LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BYPASS PUMPING OF SEWAGE DURING CONSTRUCTION. THIS SHALL INCLUDE ALL LATERALS AND SERVICES CONNECTED TO SEWER LINE AND/OR MANHOLES.



Note: M.H. E-26 is Located Within Fence Enclosure for Exxon Distributor.



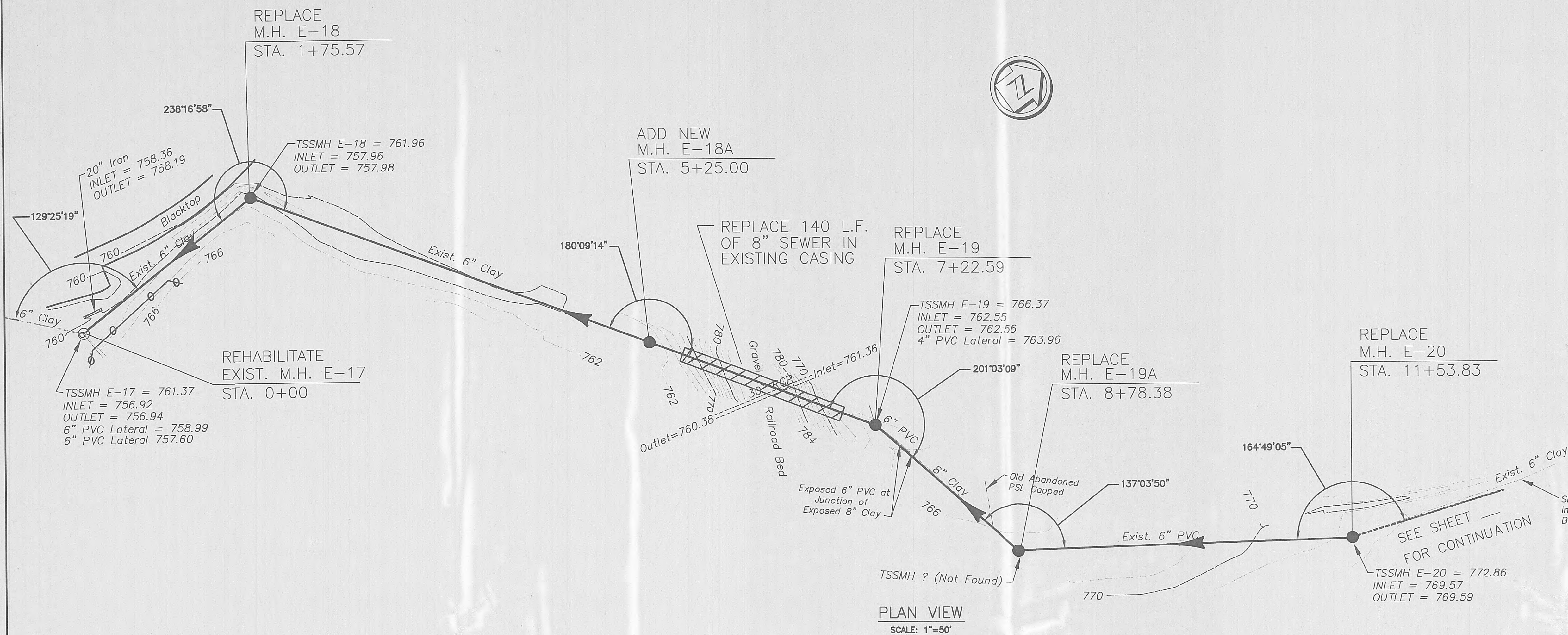
ELROD DUNSON, INC.
CONSULTING ENGINEERS
NASHVILLE KNOXVILLE
BOWLING GREEN, KY

CONTRACT S99-01
HARRMAN UTILITY BOARD
HARRMAN, TENNESSEE
SEWER PLAN-PROFILE CARTER AVE TO QUEEN AVE

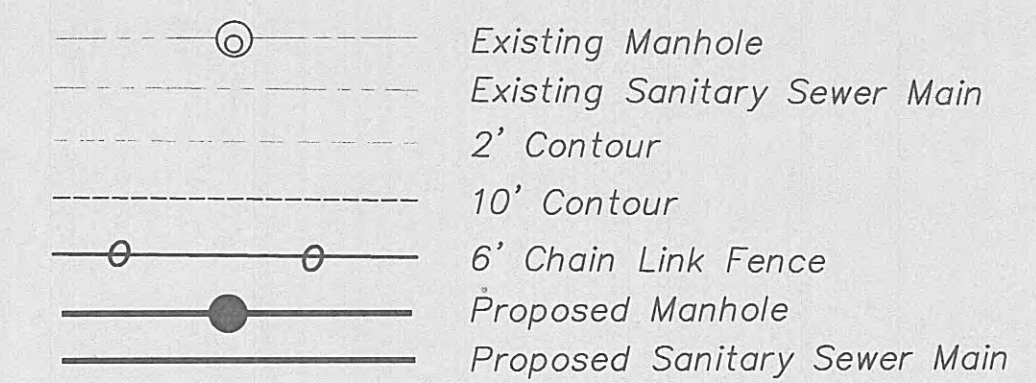
REVISIONS
NOT DONE

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: 1" = 50' H
PROJ. NO. 1498

SHEET 3
OF 8



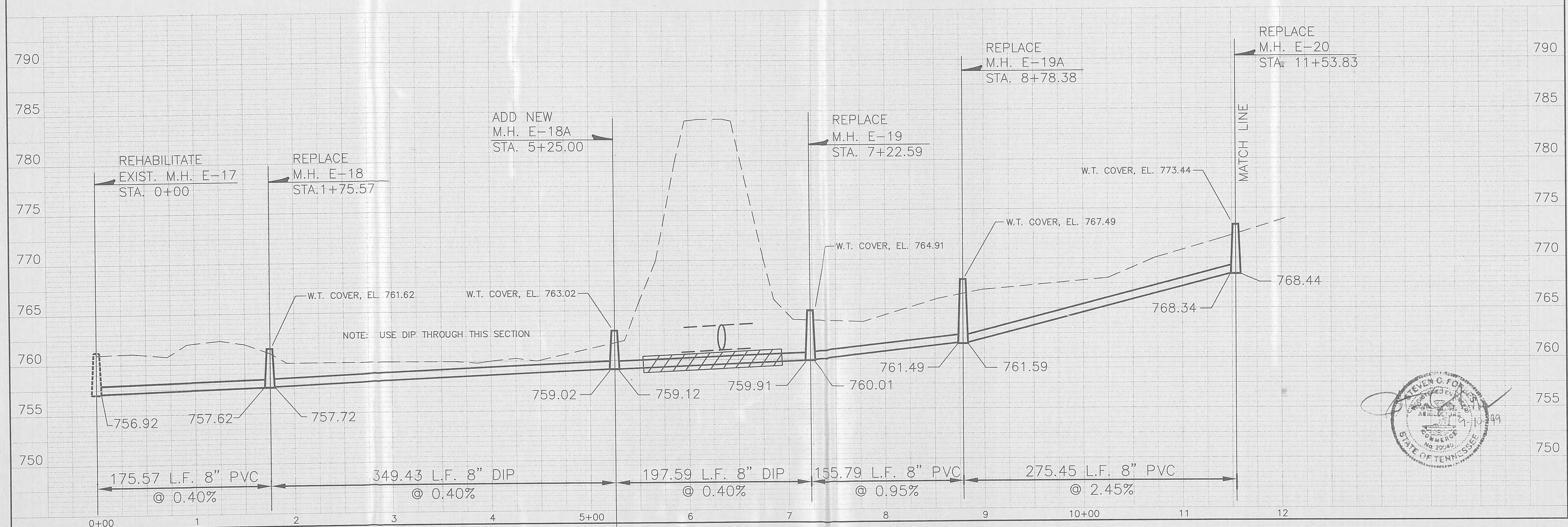
MAP LEGEND



NOTES TO CONTRACTOR

ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND T.V. CABLE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.

THE REPLACEMENT SEWER AND MANHOLES ARE SHOWN IN THE SAME LOCATION AS EXISTING LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BYPASS PUMPING OF SEWAGE DURING CONSTRUCTION. THIS SHALL INCLUDE ALL LATERALS AND SERVICES CONNECTED TO SEWER LINE AND/OR MANHOLES.



CONTRACT S99-01

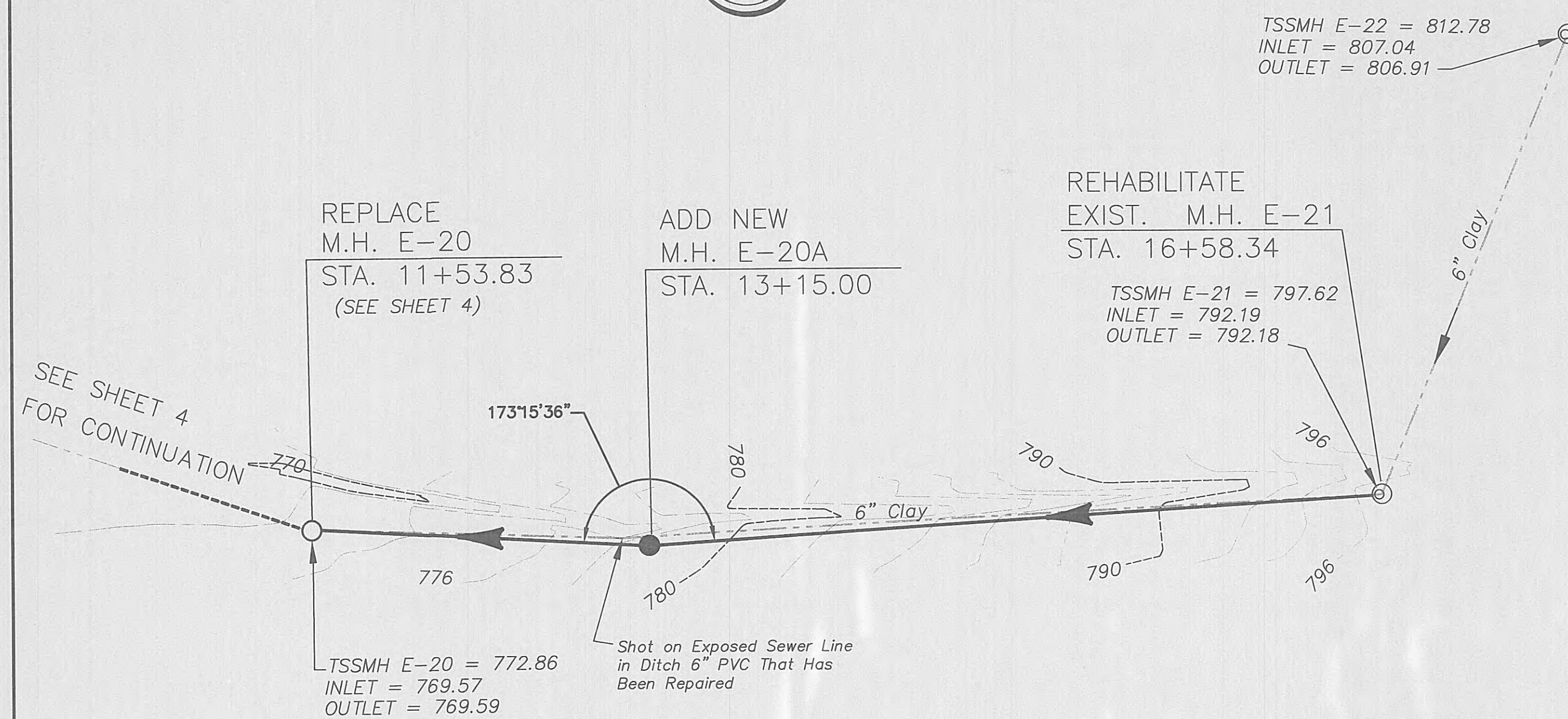
HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE
SEWER PLAN-PROFILE SECTION "A"
M.H. E-17 TO M.H. E-20

REVISIONS

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: 1" = 50' H
PROJ. NO. 1498

SHEET 4

OF 8



PLAN VIEW
SCALE: 1"=50'

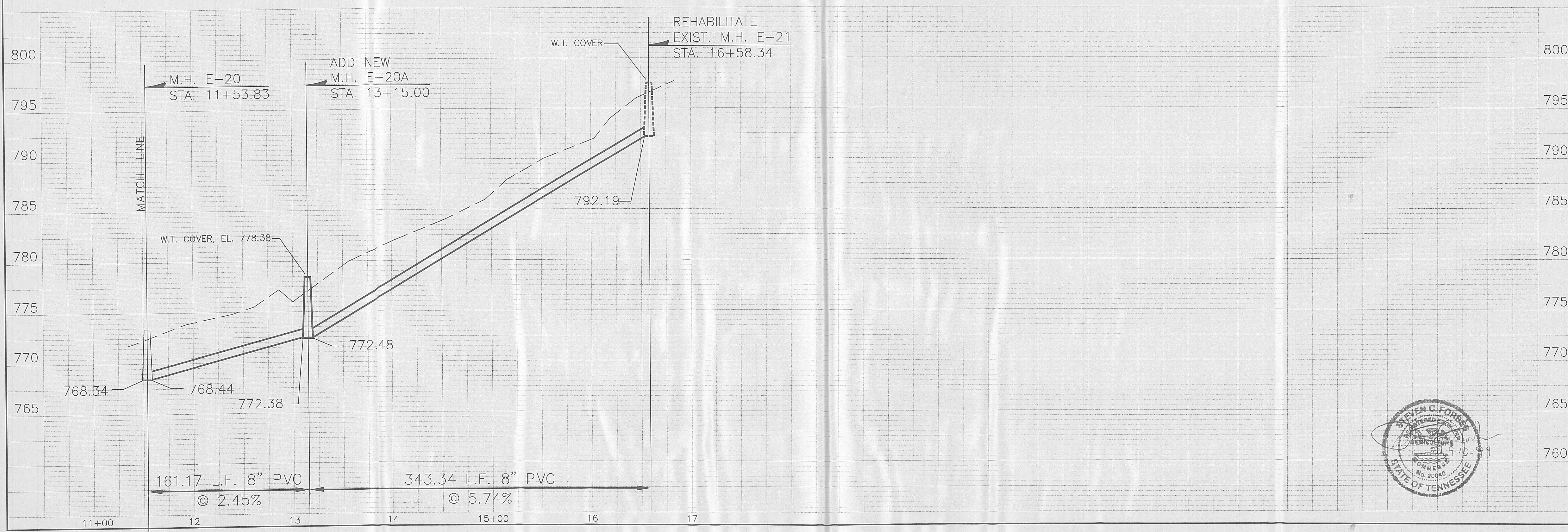
MAP LEGEND

- Existing Manhole
- Sanitary Sewer Main
- 2' Contour
- 10' Contour
- 6' Chain Link Fence
- Proposed Manhole
- Proposed Sanitary Sewer Main

NOTES TO CONTRACTOR

ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND T.V. CABLE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.

THE REPLACEMENT SEWER AND MANHOLES ARE SHOWN IN THE SAME LOCATION AS EXISTING LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BYPASS PUMPING OF SEWAGE DURING CONSTRUCTION. THIS SHALL INCLUDE ALL LATERALS AND SERVICES CONNECTED TO SEWER LINE AND/OR MANHOLES.



CONTRACT S99-01

HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE
SEWER PLAN-PROFILE SECTION "A"
M.H. E-20 TO M.H. E-21

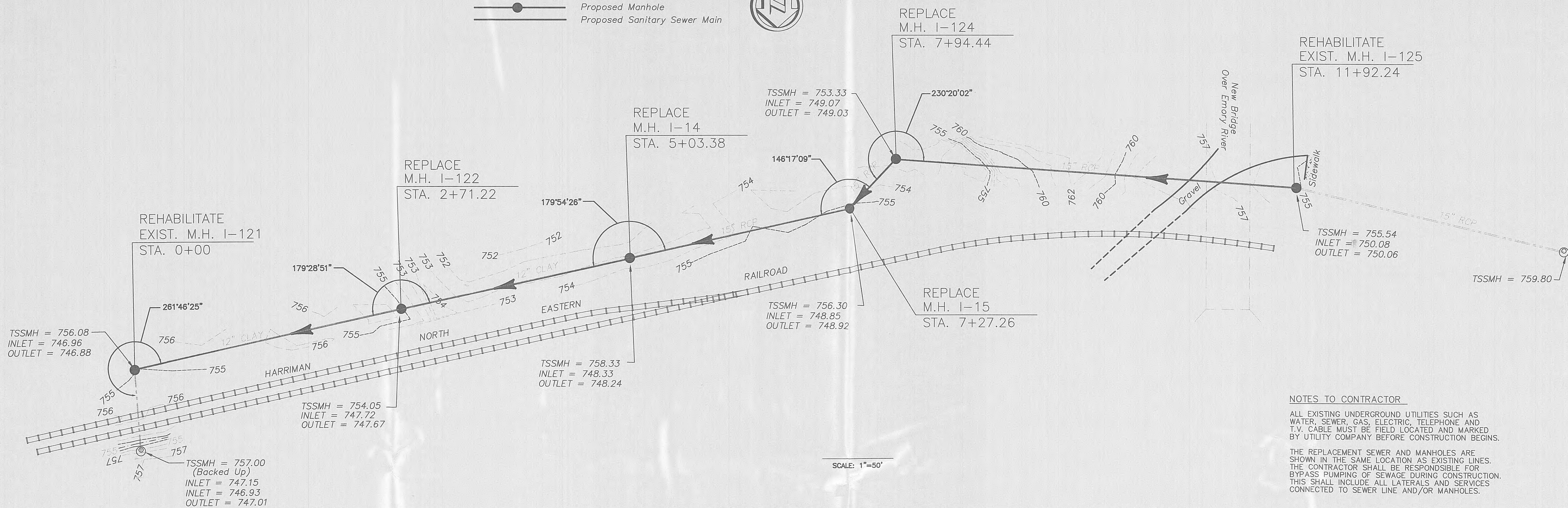
REVISIONS

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: 1" = 50' H
1" = 5' V
PROJ. NO. 1498

SHEET 5
OF 8

MAP LEGEND

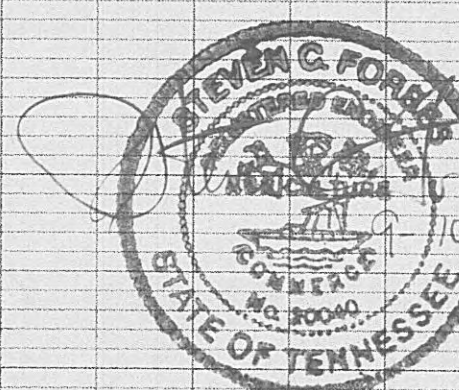
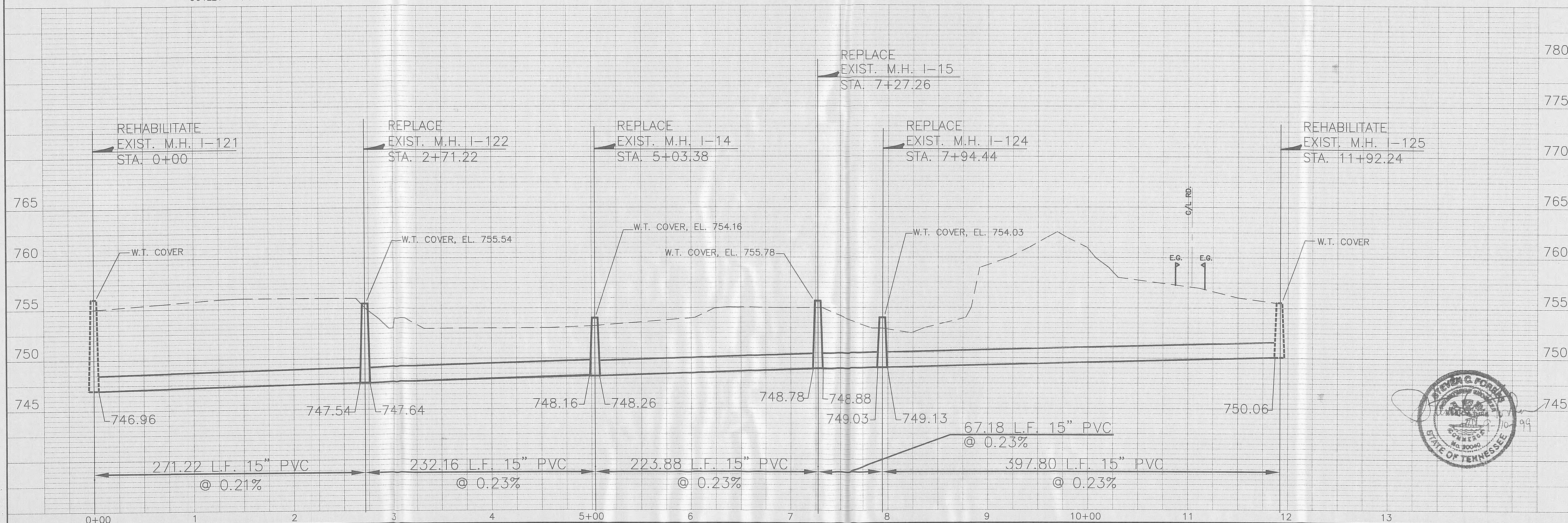
- Existing Manhole
- Sanitary Sewer Main
- 1' Contour
- 5' Contour
- Proposed Manhole
- Proposed Sanitary Sewer Main



NOTES TO CONTRACTOR

ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND T.V. CABLE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.

THE REPLACEMENT SEWER AND MANHOLES ARE SHOWN IN THE SAME LOCATION AS EXISTING LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BYPASS PUMPING OF SEWAGE DURING CONSTRUCTION. THIS SHALL INCLUDE ALL LATERALS AND SERVICES CONNECTED TO SEWER LINE AND/OR MANHOLES.



CONTRACT S99-01

HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE

SEWER PLAN-PROFILE SECTION "C"
M.H. I-121 TO M.H. I-125

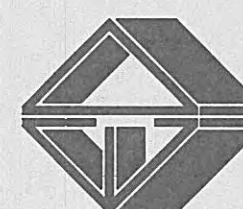
REVISIONS

DESIGNED: S.C.F.
DRAWN: D.G.R.
CHECKED: S.C.F.
DATE: AUGUST, 1999
SCALE: 1" = 50' H
PROJ. NO. 1498

SHEET 6

OF 8

ELROD DUNSON, INC.
CONSULTING ENGINEERS
NASHVILLE KNOXVILLE
BOWLING GREEN, KY

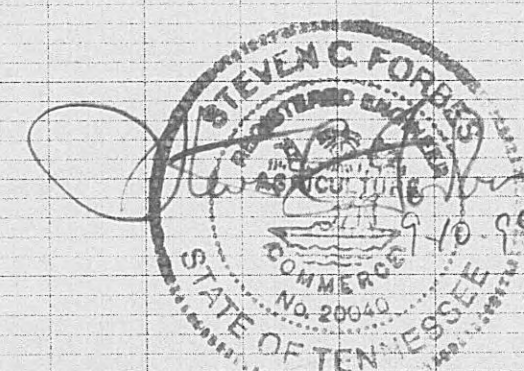
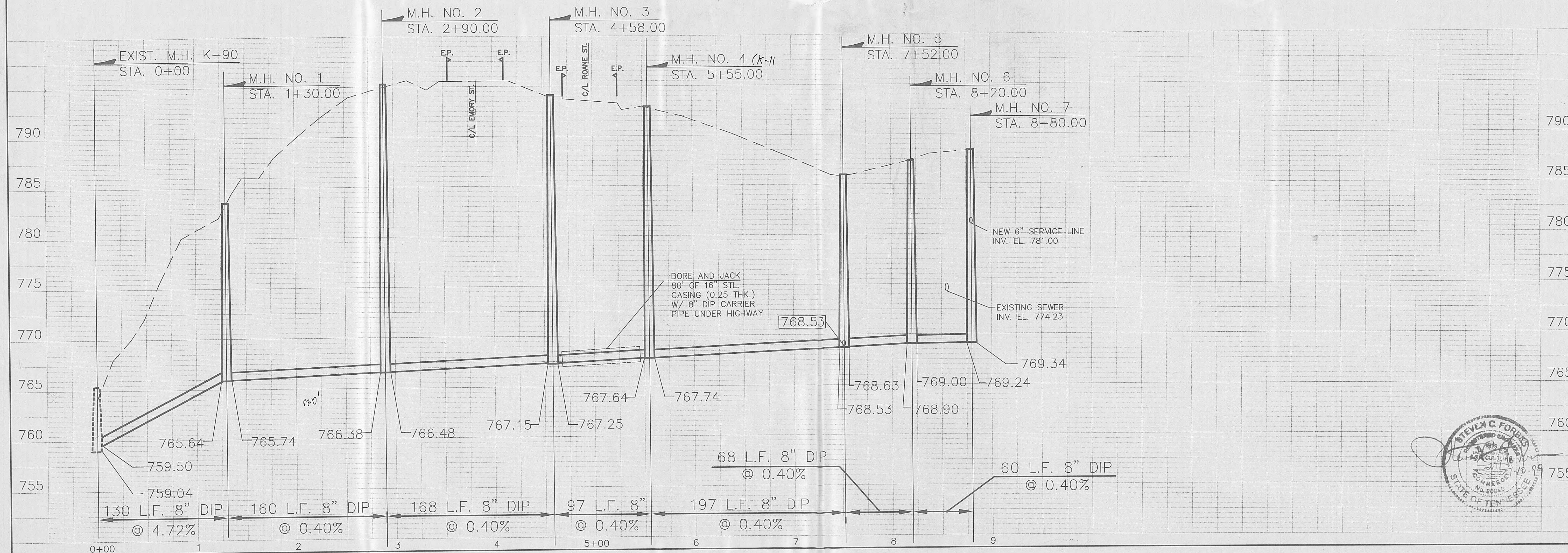
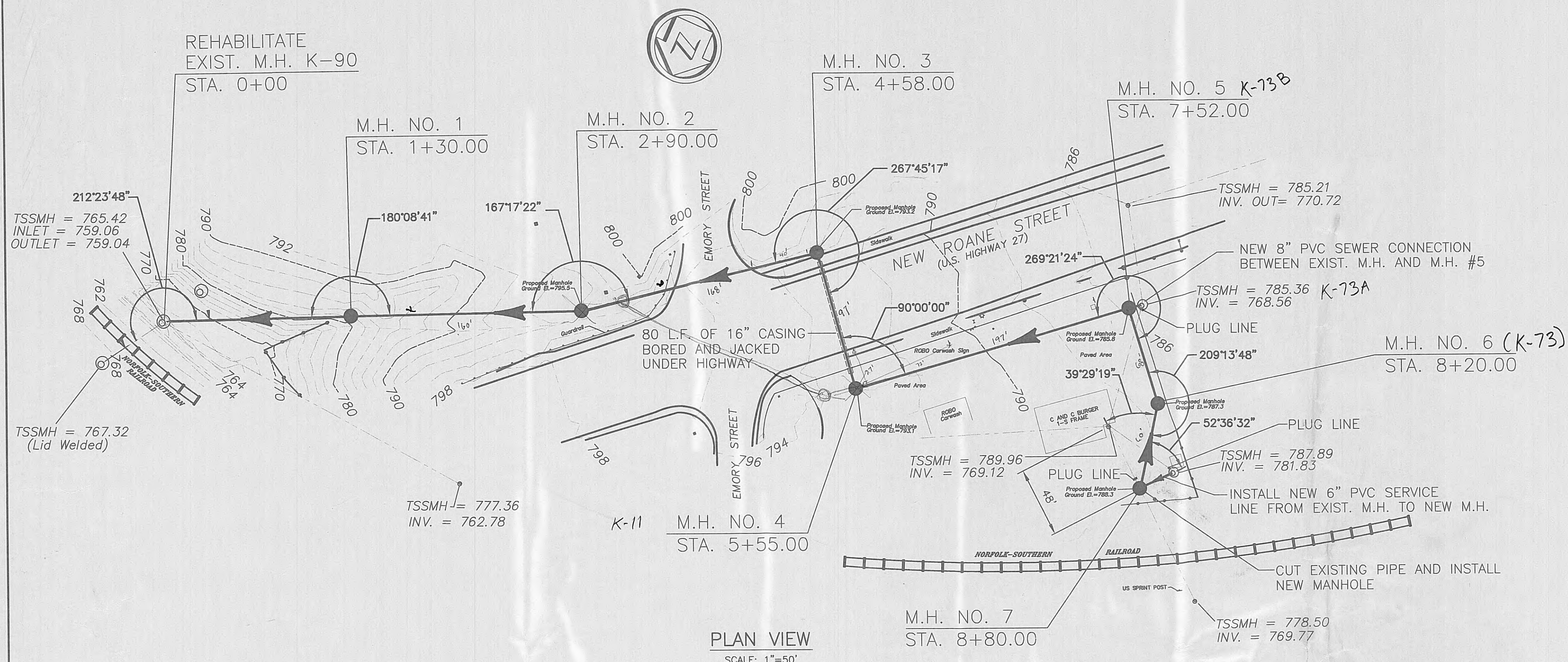


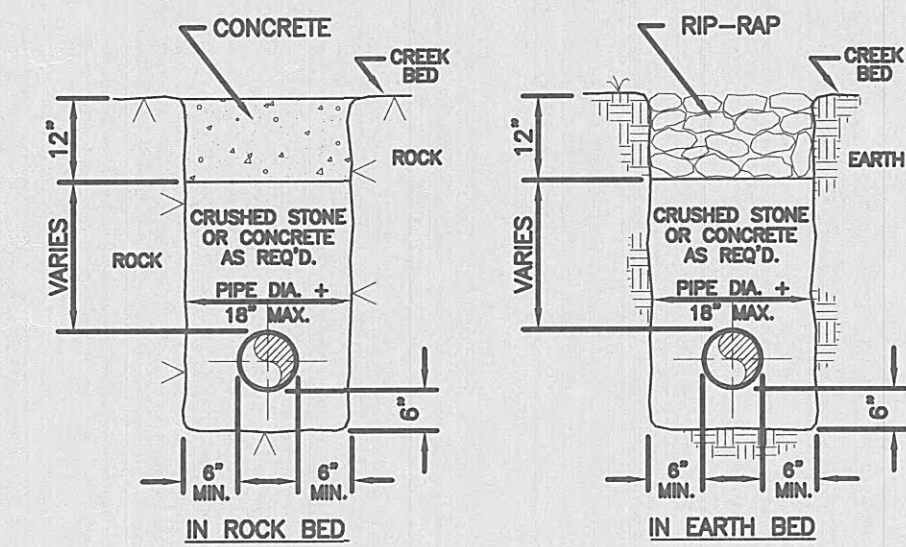
LEGEND

- Spike (Found)
- ⊙ Iron Pin (Found)
- R/W Monument (Found)
- Water Meter
- Water Valve
- Power Pole
- Buried Elec. Wire
- Light Pole
- Signal Pole
- Light Pole
- Chain Link Fence
- ⊙ Existing Sanitary Sewer Manhole
- Existing Sanitary Sewer Line
- Proposed Sanitary Sewer Manhole
- Proposed Sanitary Sewer Line
- 2' Contour
- 10' Contour

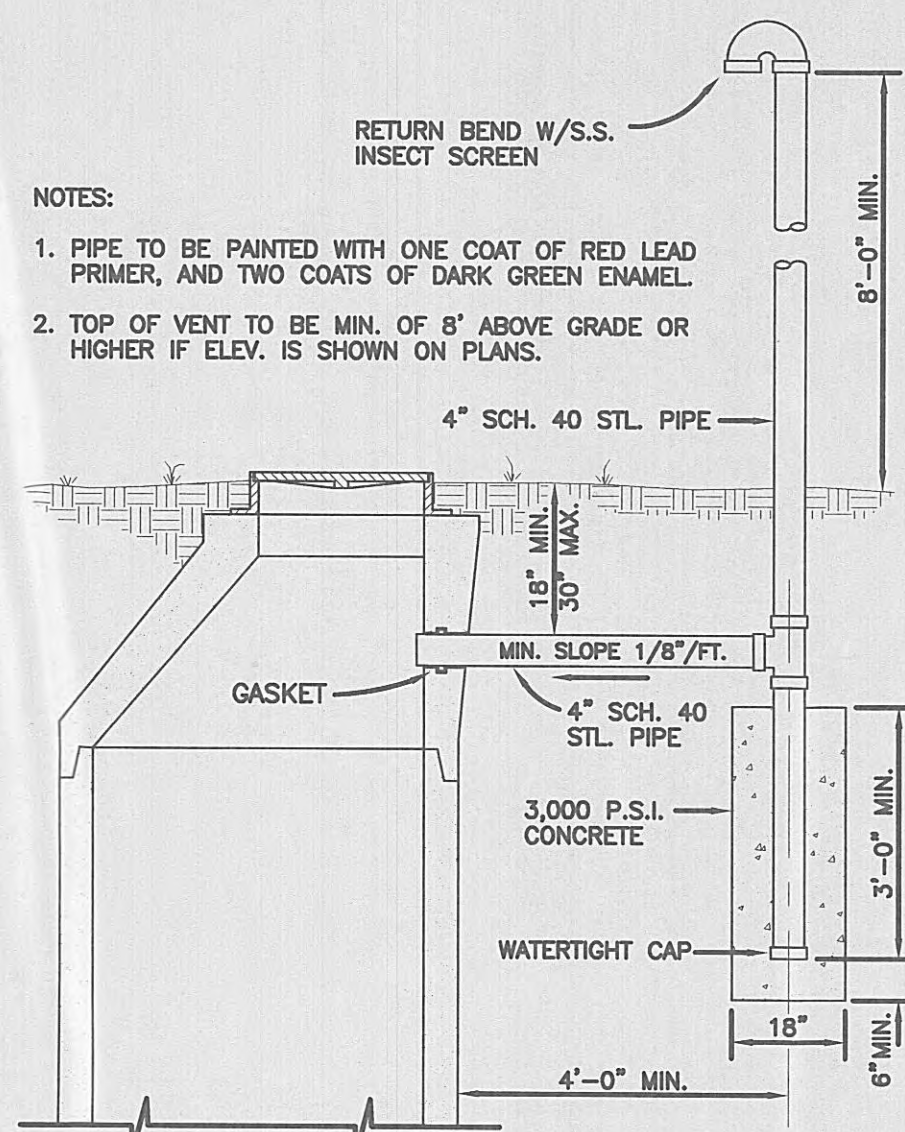
NOTE TO CONTRACTOR

1. ALL EXISTING UNDERGROUND UTILITIES SUCH AS WATER, SEWER, GAS, ELECTRIC, TELEPHONE AND T.V. CABLE MUST BE FIELD LOCATED AND MARKED BY UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.
2. 8" SEWER SHALL BE CLASS 350 PSI DUCTILE IRON PIPE (DIP)

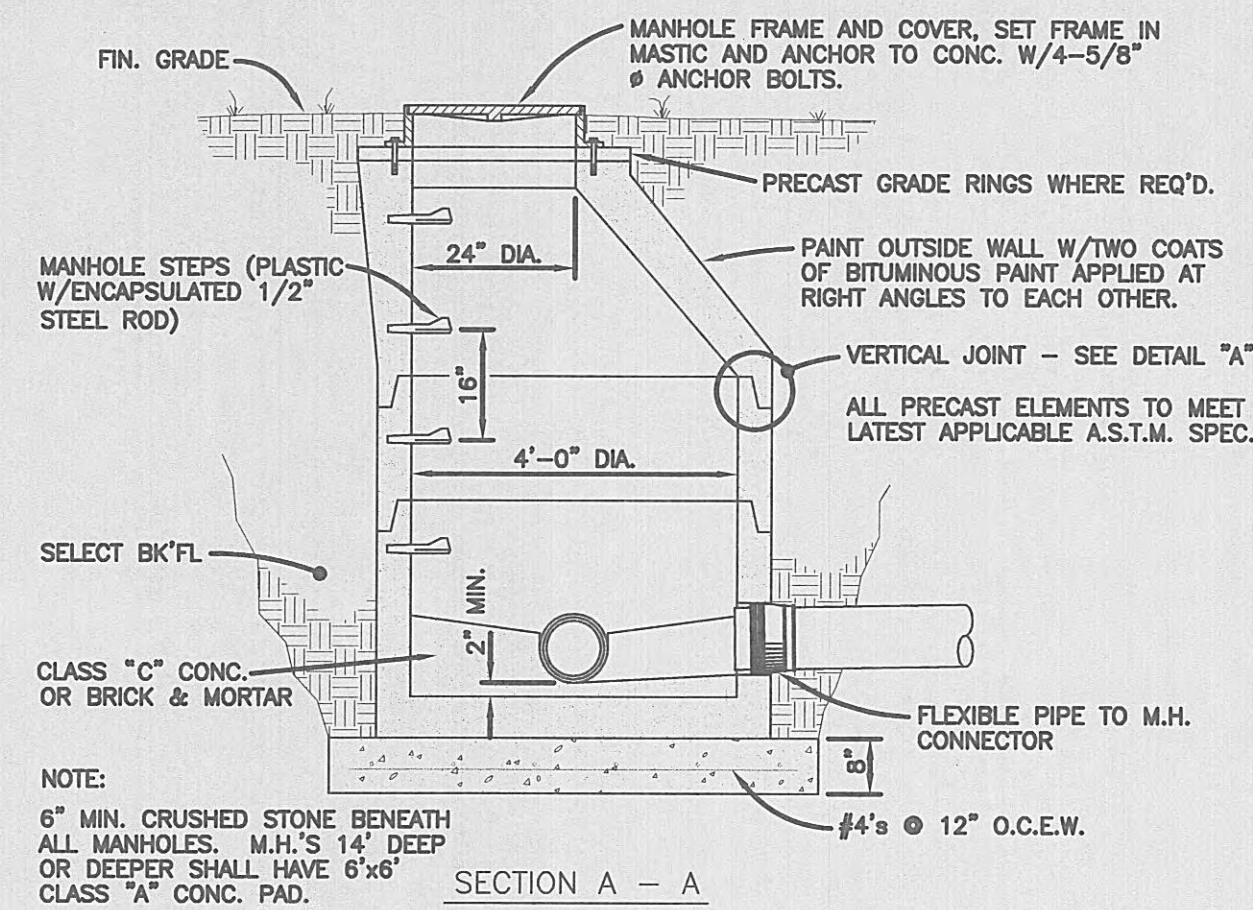




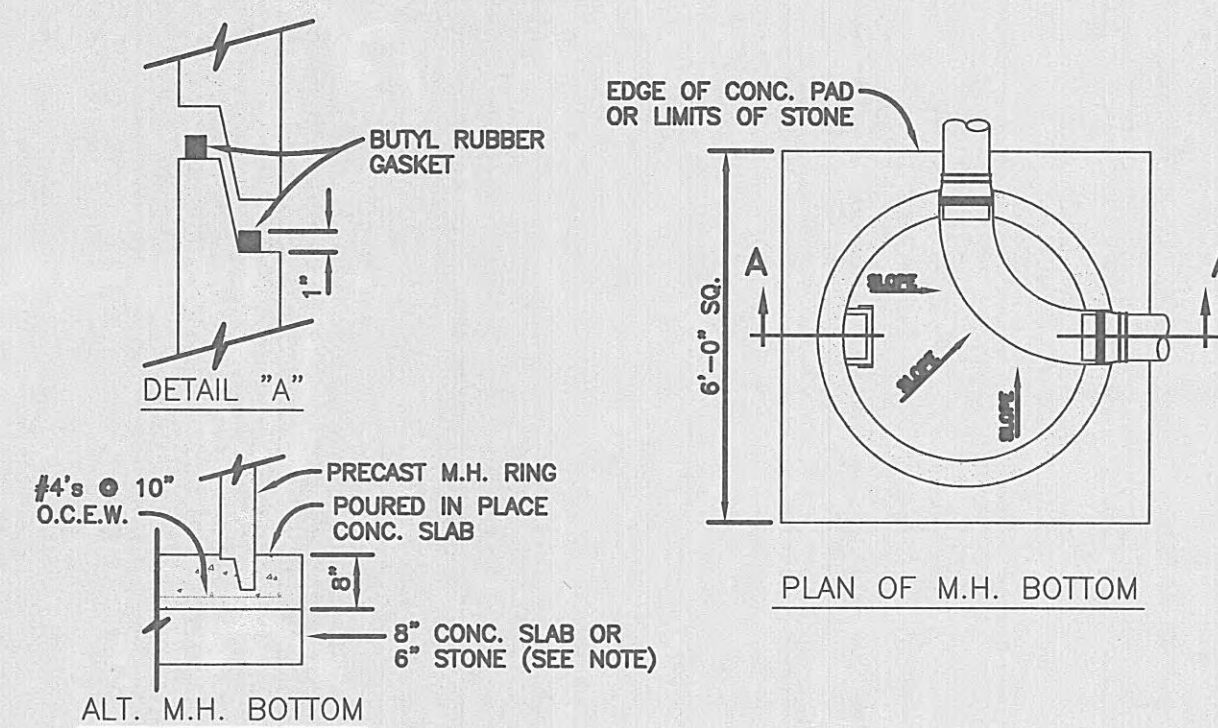
STANDARD CREEK CROSSING DETAIL
NOT TO SCALE



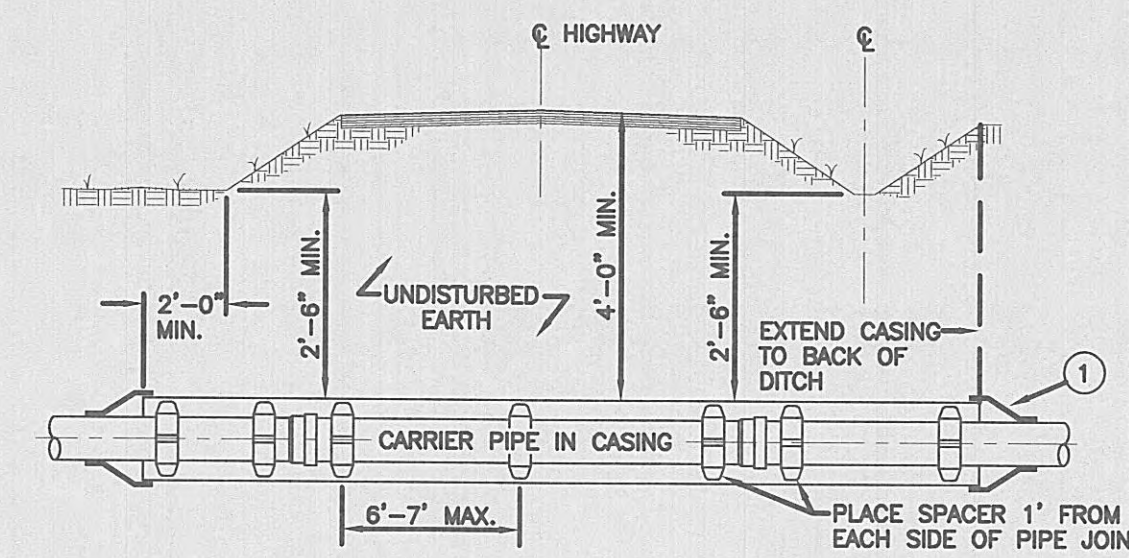
STANDARD MANHOLE VENT
NOT TO SCALE



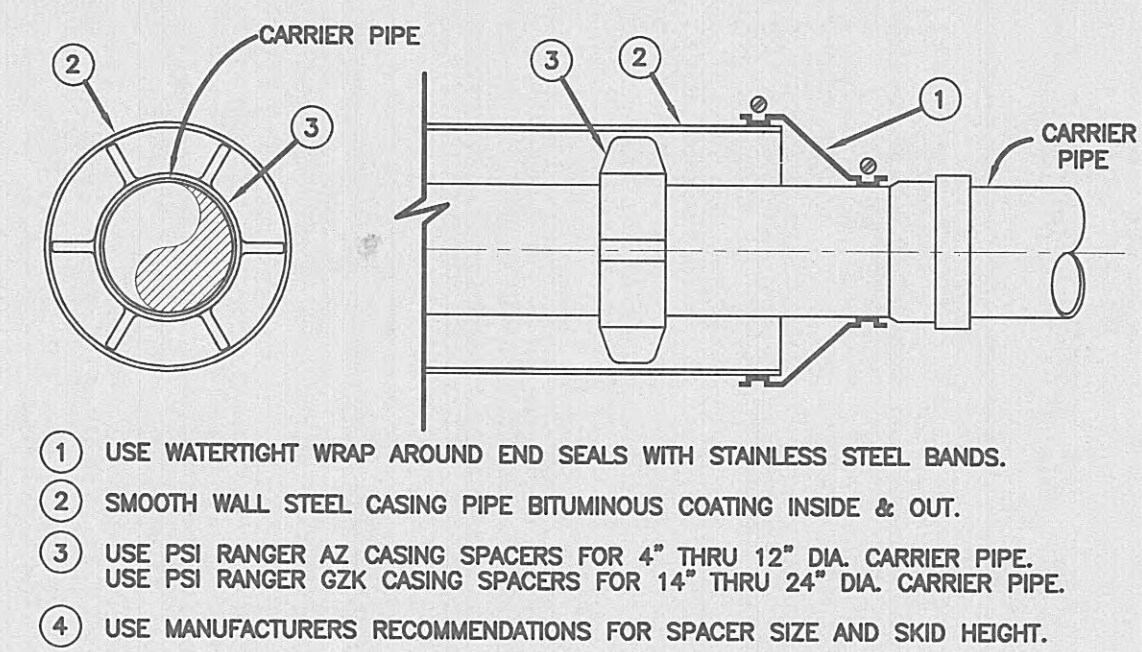
SECTION A - A



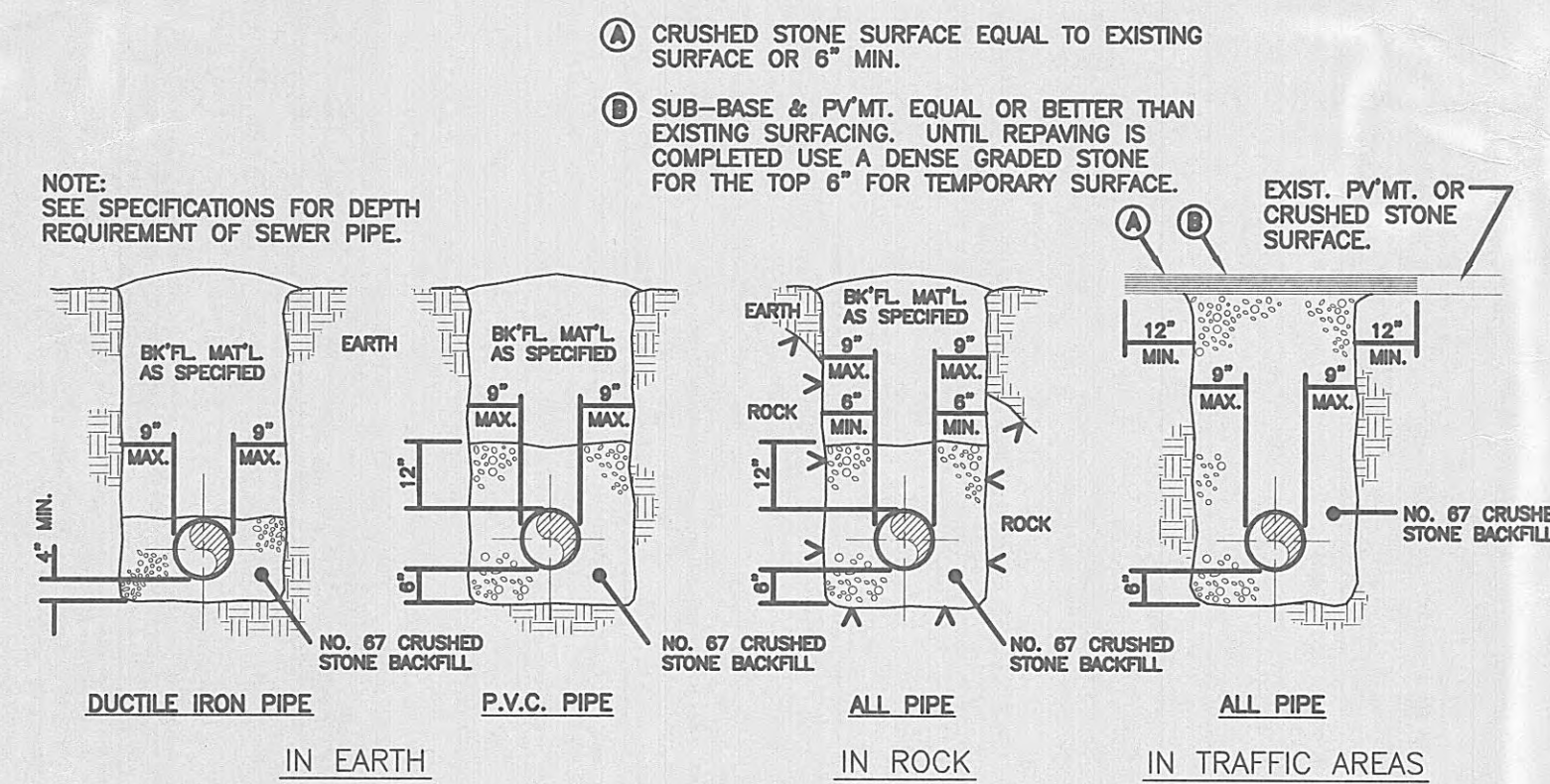
STANDARD MANHOLE
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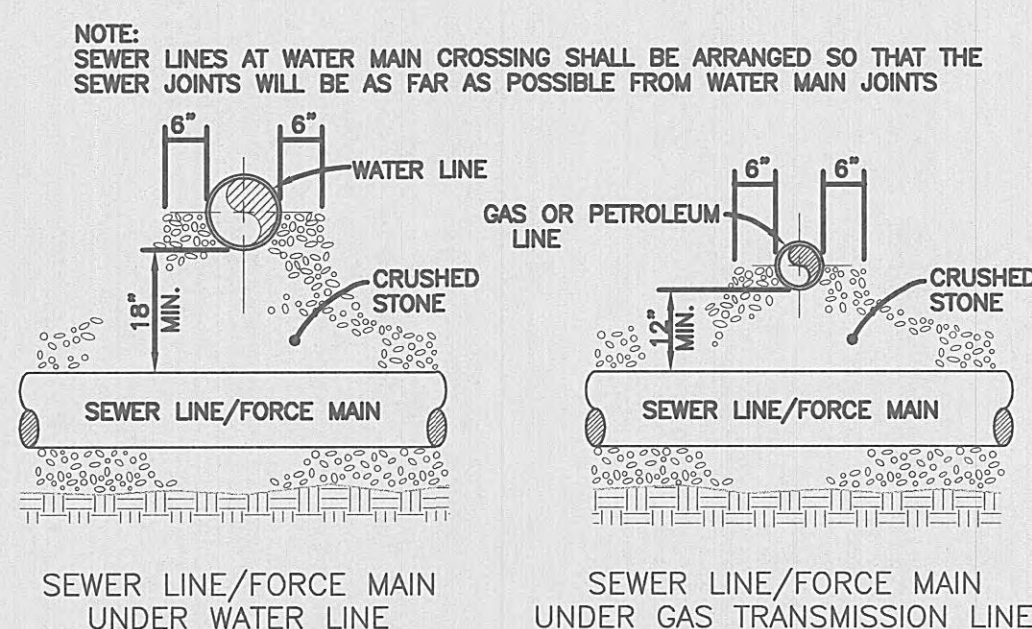
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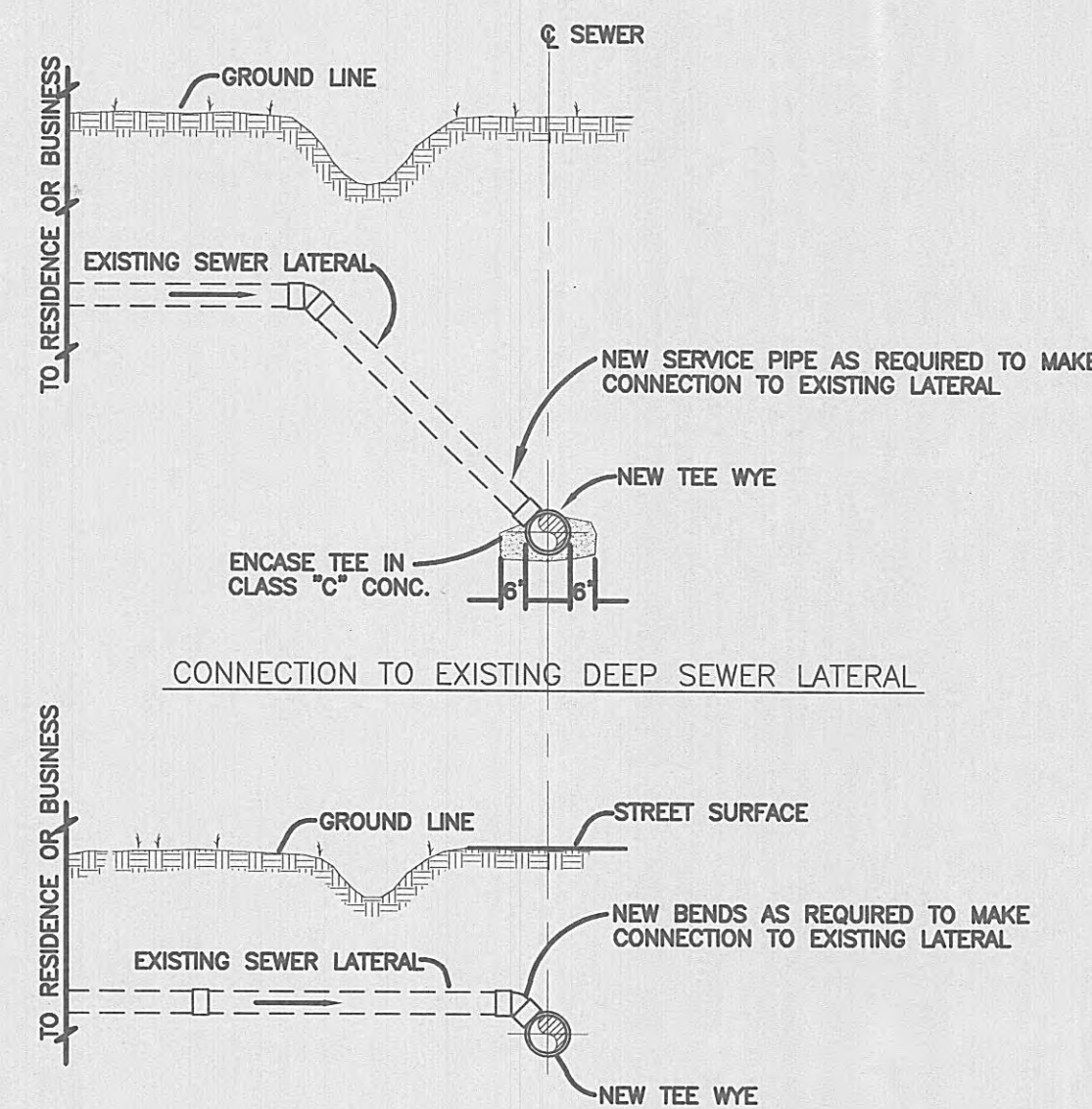
CASING PIPE W/CARRIER PIPE DETAIL
NOT TO SCALE



STANDARD GRAVITY SEWER BEDDING AND BACKFILLING
NOT TO SCALE

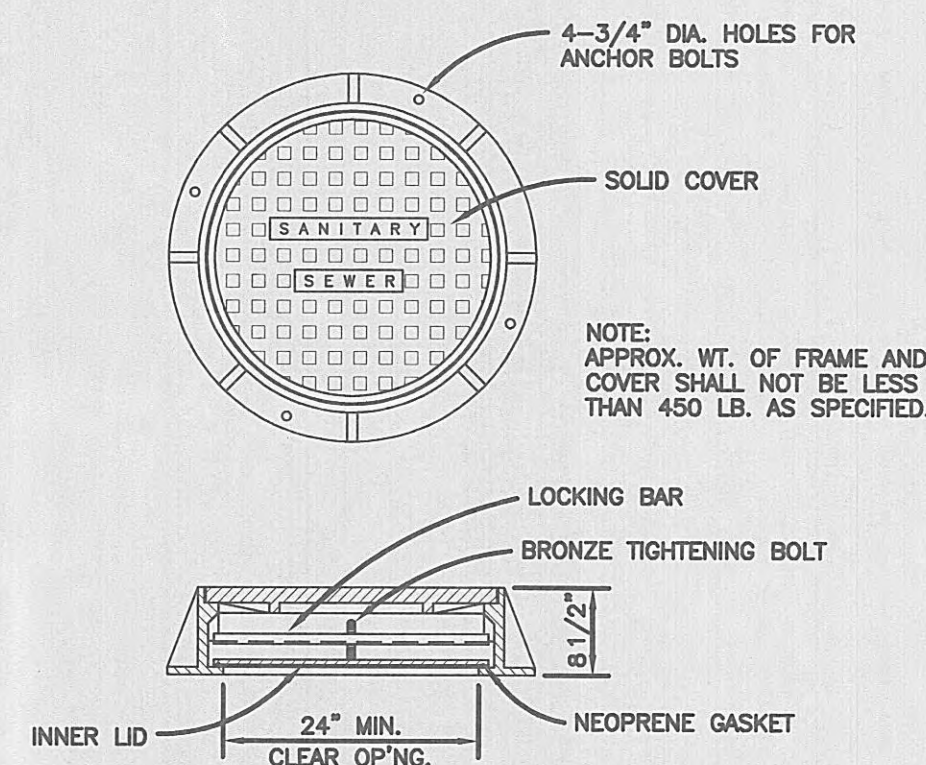


PIPE CROSSING
FOR SEWER LINE/FORCE MAIN
NOT TO SCALE

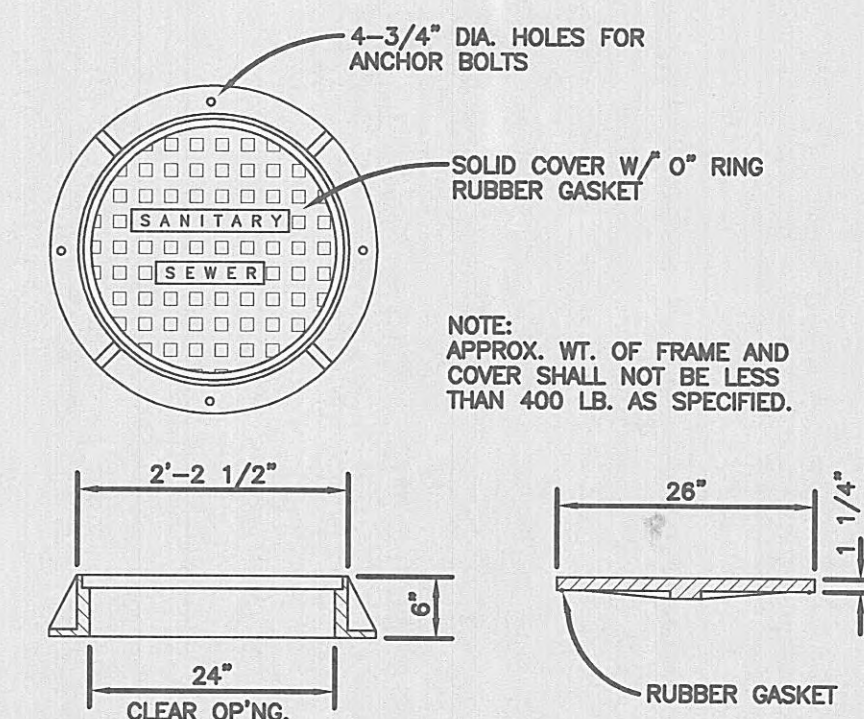


1. SANITARY SEWER LATERAL CONNECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CONNECTION INSTALLED INCLUDING THE MAIN LINE TEE WYE WITH BENDS AND PIPE AS REQUIRED.
2. CONNECTION TO EXISTING PIPING SHALL BE FIELD LOCATED.

SANITARY SEWER CONNECTIONS
NOT TO SCALE



WATERTIGHT FRAME & COVER
NOT TO SCALE



STANDARD MANHOLE FRAME & COVER
NOT TO SCALE

