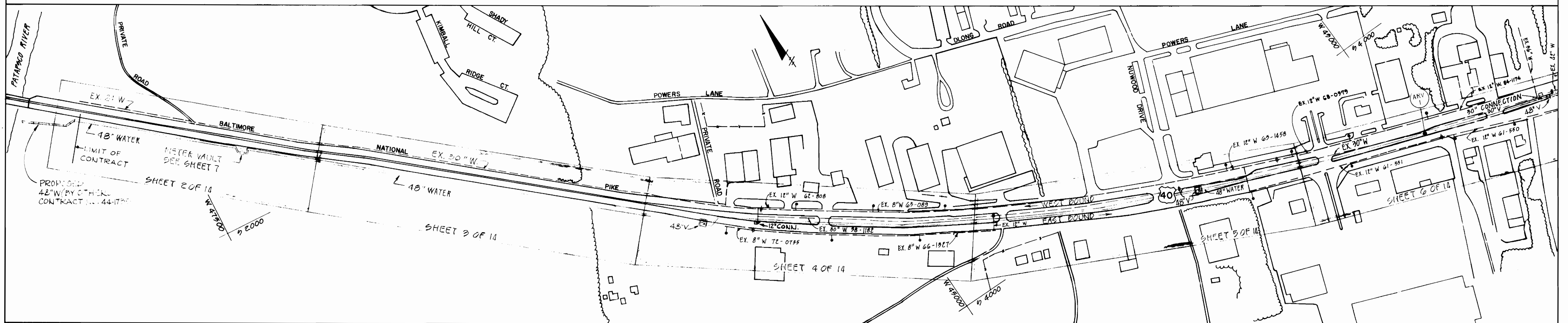


US ROUTE 40 WATER TRANSMISSION MAIN

SECTION 1 CAPITAL PROJECT W-8051 CONTRACT NO. 44-1672



LOCATION MAP

SCALE: 1" = 200'

I. DEVELOPER'S CERTIFICATION:

I (WE) CERTIFY THAT:

- A) ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN, AND FURTHER, AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE STATE OF MARYLAND DEPARTMENT OF THE ENVIRONMENT SEDIMENT AND STORMWATER PROGRAM INSPECTORS.
- B) ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

[Signature]
DATE: 8-30-88

INDEX OF DRAWINGS

SHEET NO	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE
3	PLAN AND PROFILE
4	PLAN AND PROFILE
5	PLAN AND PROFILE
6	PLAN AND PROFILE
7	METER VAULT DETAILS
8	METER VAULT DETAILS
9	DETAILS
10	DETAILS
11	TRAFFIC CONTROL PLAN
12	TRAFFIC CONTROL PLAN
13	TRAFFIC CONTROL PLAN
14	SEDIMENT AND EROSION CONTROL

QUANTITIES

ITEM	QUANTITIES		MATERIAL TYPE	SUPPLIER
	ESTIMATE	AS BUILT		
48" DIP & FITTINGS CL 5A	678LF			
48" P.C.C.P. & FITTINGS	5770LF			
48" BUTTERFLY VALVE & VAULT	3 EA			
42"x30" TAPPING SADDLE & VALVE	1 EA			
COMBINATION ACCESS MANHOLE & 2" AIR RELEASE VALVE	1 EA			
54" TUNNEL LINER PLATE	48 LF			
30" D.I.P. CL 5A	8 LF			
24" VERTICAL VALVE & VAULT	2 EA			
24" P.C.C.P. & FITTINGS	65 LF			
24" D.I.P. CL 5A	29 LF			
12" D.I.P. & FITTINGS CL 5A	30 LF			
6" GATE VALVE & ROADWAY VALVE BOX	1 EA			
6" D.I.P. CL 5A	10 LF			
FIRE HYDRANT	1 EA			
24" VENTURI METER VALVE & VAULT	1 EA			

CITY OF BALTIMORE				BALTIMORE COUNTY	
DIRECTOR	DATE	CHIEF, WATER ENG. DIVISION	DATE	BUREAU OF ENGINEERING	DEPARTMENT OF PUBLIC WORKS
<i>[Signature]</i>	8/31/88	<i>[Signature]</i>	8/31/88	<i>[Signature]</i>	<i>[Signature]</i>
				8-31-88	9/1/88

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND			
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
<i>[Signature]</i>	8-30-88	<i>[Signature]</i>	8-30-88

WHITNEY CONSULTING ENGINEERS
BAILEY COX MAGNANI
1850 YORK ROAD
TIMONIUM, MD 21093
301-252-6060

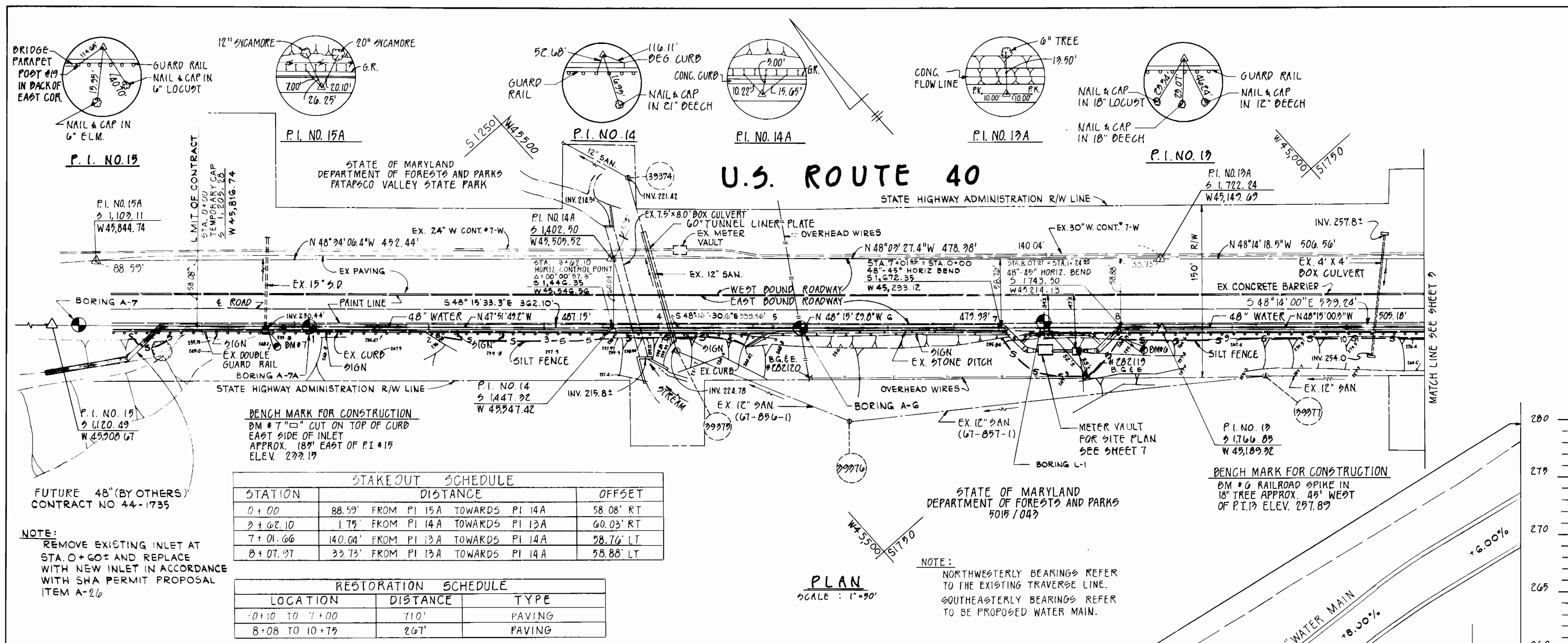
DES: R. J. H.			
DRN: S. D.			
CHK: J. P.			
DATE: 10/27/88	BY	NO.	REVISION

TITLE SHEET
LOCATION MAP
INDEX OF DRAWINGS

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 14



NOTE:
BORINGS LABELED A-SERIES EXTRACTED FROM "ROUTE 40 TRANSMISSION MAIN, CAPITAL PROJECT W-8051 & 8092" DATED MARCH 1, 1986. PREPARED BY WHITMAN REARDON & ASSOCIATES. BORINGS LABELED L-SERIES TAKEN FROM "REPORT OF GEOTECHNICAL EXPLORATION, CAPITAL PROJECT W-8051" DATED FEB. 23, 1986. PREPARED BY LAW ENGINEERING. (TYPICAL ALL SHEETS) SEE APPENDIX "D" TO THE SPECIFICATIONS FOR BORING LOGS.

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- "FULL TRENCH COMPACTION" TO BE USED OVER THE ENTIRE LIMIT OF THIS CONTRACT.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- 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 - 931-5933
BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 890-4620
BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL - 899-9004
BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9001
MISS UTILITY - 1-800-257-7777
COLONIAL PIPELINE CO. - 795-1990
BUREAU OF UTILITIES, HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS - 992-2360
BALTO. CITY WATER MAINTENANCE - 390-0315
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 4'-0" COVER UNLESS OTHERWISE NOTED.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DWGS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- RESTORATION SCHEDULES HAVE BEEN PROVIDED ON THE PLANS AS A GENERAL DESCRIPTION OF THE SURFACES TO BE RESTORED. THE SCHEDULE IS NOT INTENDED TO ADDRESS SPECIFIC ITEMS TO BE REPLACED OR RESTORED IN GENERAL. SURFACE FEATURES SHALL BE REPLACED OR RESTORED AS SPECIFIED IN THE STATE HIGHWAY ADMINISTRATION PERMIT, "IN KIND", OR AS DIRECTED BY THE ENGINEER.
- OPERATING PRESSURE = 149 PSI; TEST PRESSURE = 224 PSI (EQUALS TEST GRADIENT ELEVATION 781.4)
- THE 48" PIPE FROM STATION 0+00 TO 6+78.5 SHALL BE DUCTILE IRON PIPE, CLASS 50 AND FROM STATION 8+07.97 TO 66+40 SHALL BE PRESTRESSED CONCRETE CYLINDER PIPE.
- ALL HORIZONTAL CONTROLS AND ELEVATIONS ARE BASED ON BALTIMORE COUNTY DATUM.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED OR SHOWN.

STAKEOUT SCHEDULE

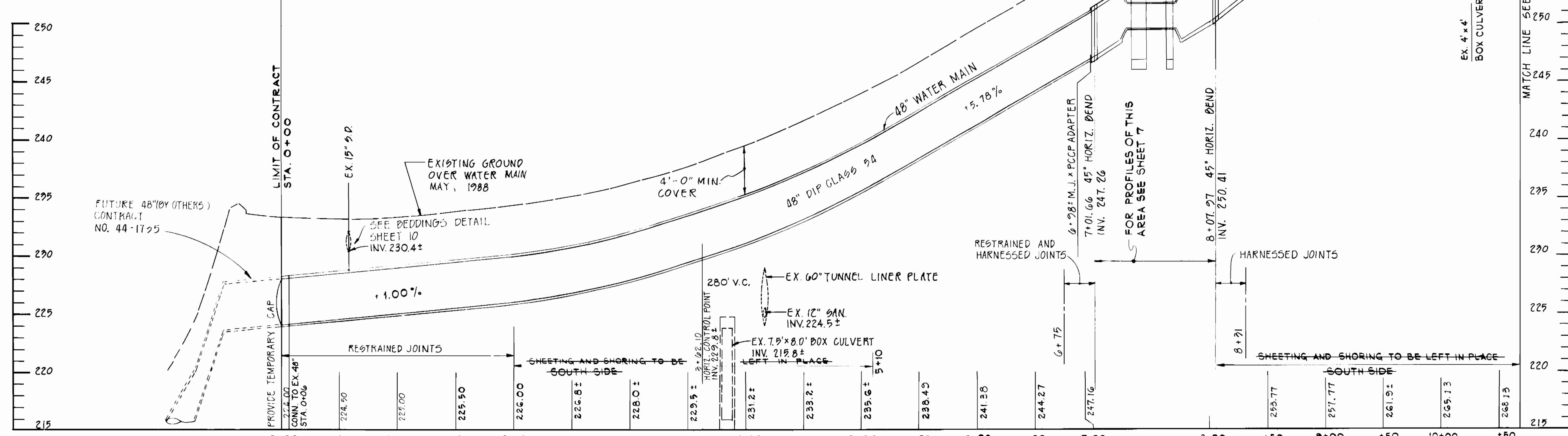
STATION	DISTANCE	OFFSET
0+00	88.59' FROM PI 15A TOWARDS PI 14A	58.08' RT
3+02.10	1.75' FROM PI 14A TOWARDS PI 13A	60.03' RT
7+01.66	140.04' FROM PI 13A TOWARDS PI 14A	58.76' LT
8+07.97	23.73' FROM PI 13A TOWARDS PI 14A	58.88' LT

RESTORATION SCHEDULE

LOCATION	DISTANCE	TYPE
0+10 TO 7+00	710'	PAVING
8+08 TO 10+79	267'	PAVING

SILT FENCE SCHEDULE

STA. TO STA.	LOCATION	LENGTH
0+55 TO 0+25	10' ± RT	40' ±
2+00 TO 4+80	10' ± RT	280'
7+00 TO 10+75	10' ± RT	400' ±



CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CHIEF, WATER ENG. DIVISION
CHIEF, ON WATER AND WASTEWATER DIVISION

APPROVED: *Paul Robinson* 8-31-88
APPROVED: *John J. Neff* 9/16/88

DESIGNED BY: R. J. H.
DRAWN BY: K. S. M.
CHECKED BY: J. P.
DATE: 10/27/88

PROFILE
SCALE: HORIZ. 1"=90'
VERT. 1"=9'

PLAN AND PROFILE

DATE: 10/27/88

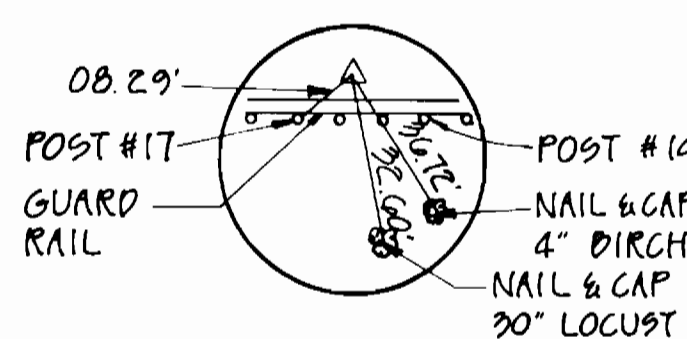
CW-45707

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

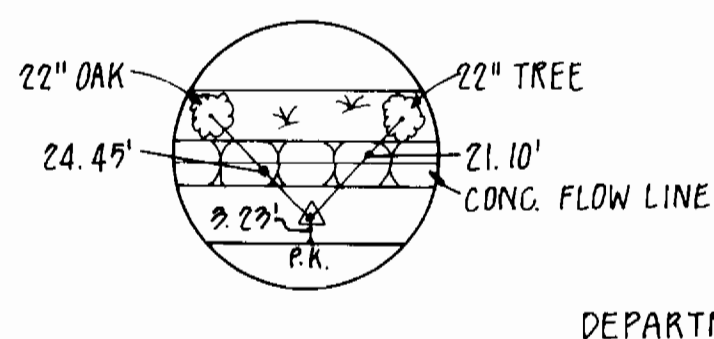
SCALE AS SHOWN
SHEET 2 OF 14

BRUNING 69150

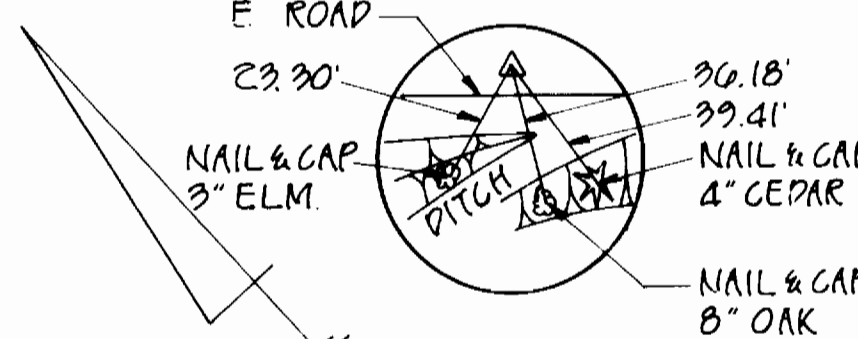
SILT FENCE SCHEDULE			
STA. TO STA.	LOCATION	LENGTH	
10+75 TO 14+50	10' RT	385'	



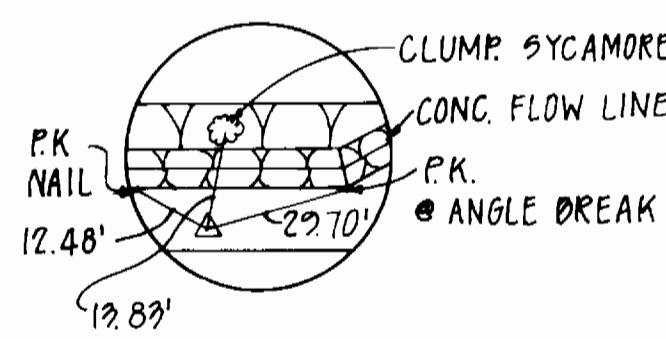
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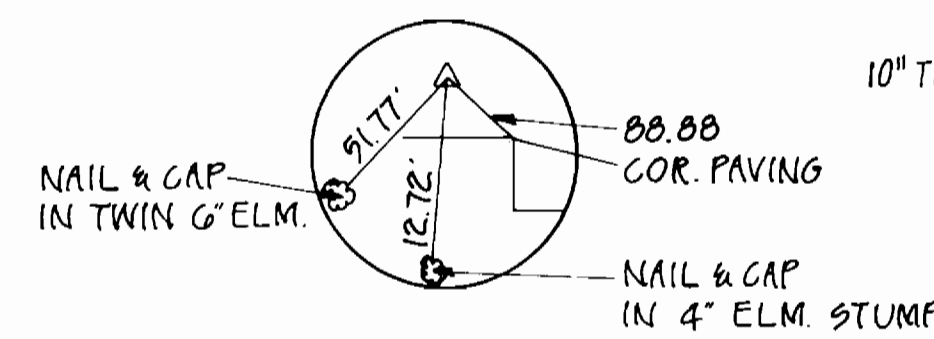
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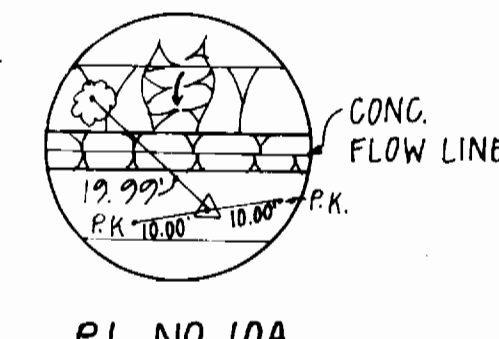
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P.I. NO. 11A



P.I. NO. 10

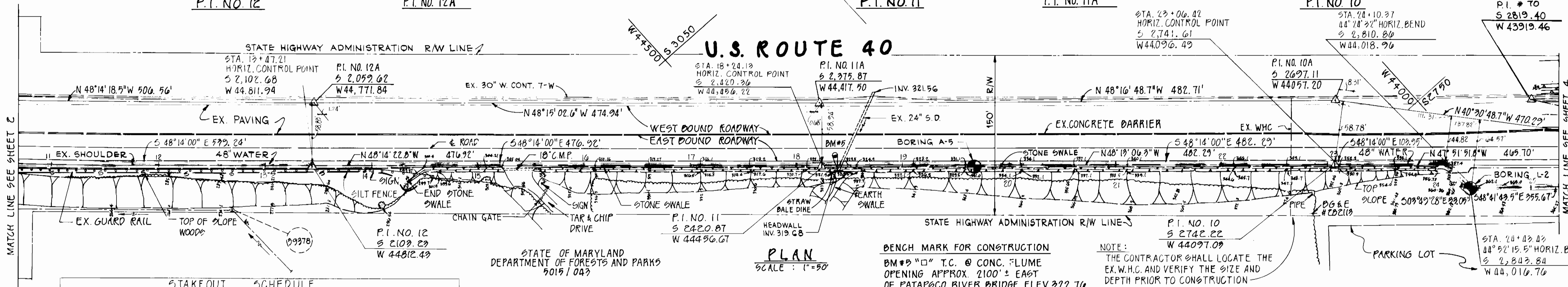


P.I. NO. 10A

STATE OF MARYLAND
DEPARTMENT OF FORESTS AND PARKS
PATAPSCO VALLEY STATE PARK

STATE OF MARYLAND
DEPARTMENT OF FORESTS AND PARKS
5015 / 042

U.S. ROUTE 40



PLAN
SCALE: 1"=50'

BENCH MARK FOR CONSTRUCTION
BM #2 "I.C." @ CONC. FLUME
OPENING APPROX. 2100' ± EAST
OF PATAPSCO RIVER BRIDGE ELEV. 322.76

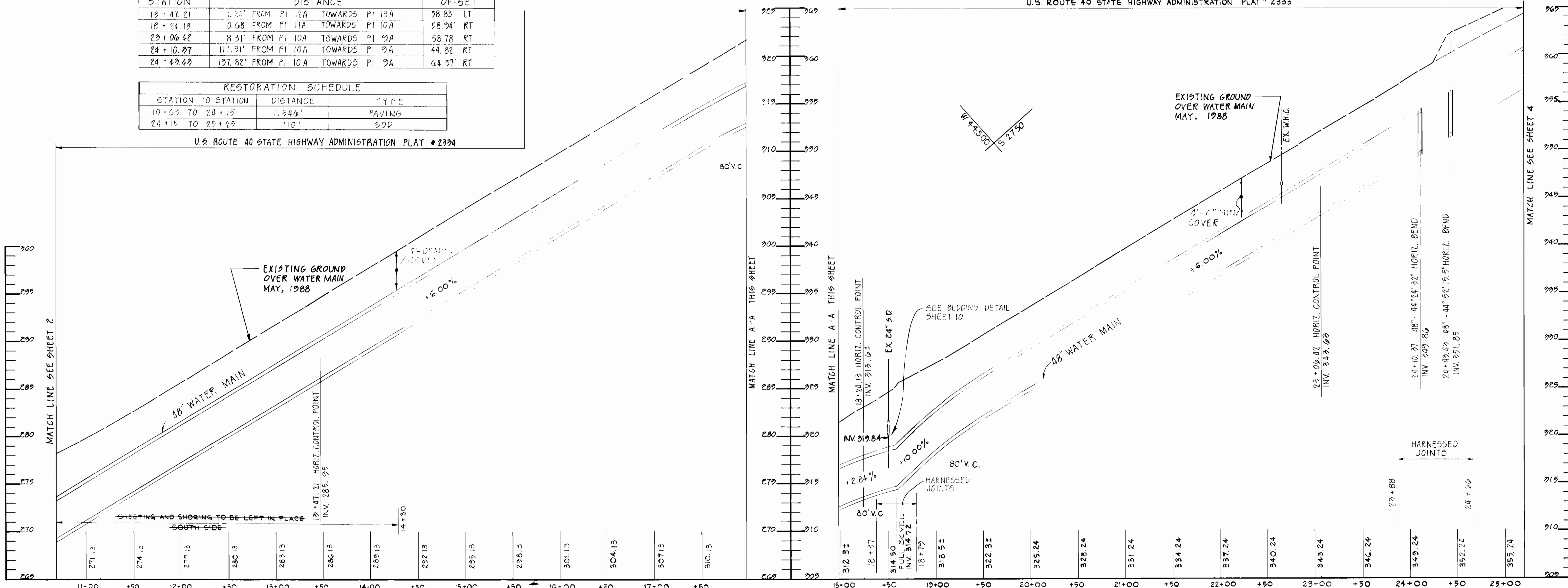
NOTE:
THE CONTRACTOR SHALL LOCATE THE
EX. W.H.C. AND VERIFY THE SIZE AND
DEPTH PRIOR TO CONSTRUCTION

U.S. ROUTE 40 STATE HIGHWAY ADMINISTRATION PLAT # 2333

STAKEOUT SCHEDULE		
STATION	DISTANCE	OFFSET
12+47.21	2.34' FROM P.I. 12A TOWARDS P.I. 13A	58.83' LT
18+24.13	0.68' FROM P.I. 11A TOWARDS P.I. 10A	58.94' RT
22+06.42	8.31' FROM P.I. 10A TOWARDS P.I. 9A	58.78' RT
24+10.27	111.31' FROM P.I. 10A TOWARDS P.I. 9A	44.82' RT
24+42.43	137.82' FROM P.I. 10A TOWARDS P.I. 9A	64.57' RT

RESTORATION SCHEDULE		
STATION TO STATION	DISTANCE	TYPE
10+62 TO 24+15	1,346'	PAVING
24+15 TO 25+25	110'	SOD

U.S. ROUTE 40 STATE HIGHWAY ADMINISTRATION PLAT # 2334



PROFILE
SCALE: HORIZ 1"=30'
VERT 1"=9'

CITY OF BALTIMORE		BALTIMORE COUNTY	
DIRECTOR	DATE	APPROVED	DATE
<i>[Signature]</i>	9/18/88	<i>[Signature]</i>	8-31-88
DEPT. OF PUBLIC WORKS	BUR. OF WATER AND WASTEWATER	DEPARTMENT OF PUBLIC WORKS	CHIEF

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
DIRECTOR	DATE
<i>[Signature]</i>	5-30-88
CHIEF, BUREAU OF UTILITIES	
CHIEF, BUREAU OF ENGINEERING	DATE
<i>[Signature]</i>	5-30-88
CHIEF, UTILITY DESIGN DIVISION	

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
1850 YORK ROAD
TIMONIUM, MD 21093
301-252-6060

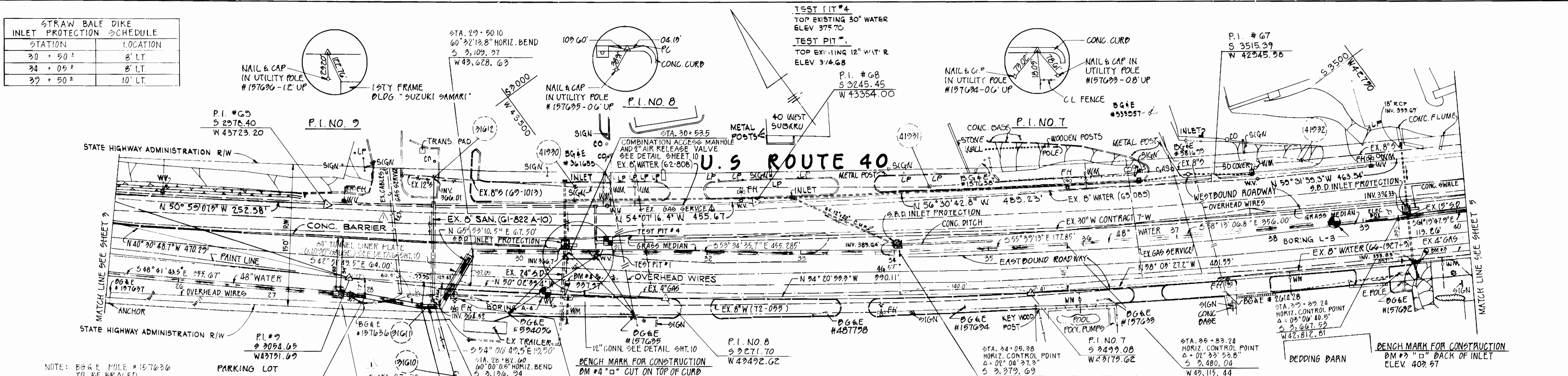
DES: R. J. H.	
DRN: K. S. M.	
CHK: J. P.	
DATE: 10/27/88	
BY: NO.	REVISION
DATE	600' SCALE MAP NO.
	BLOCK NO.

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 14

AS-BUILT 10-30-90 JOHN E. HARMS JR., & ASSOC.

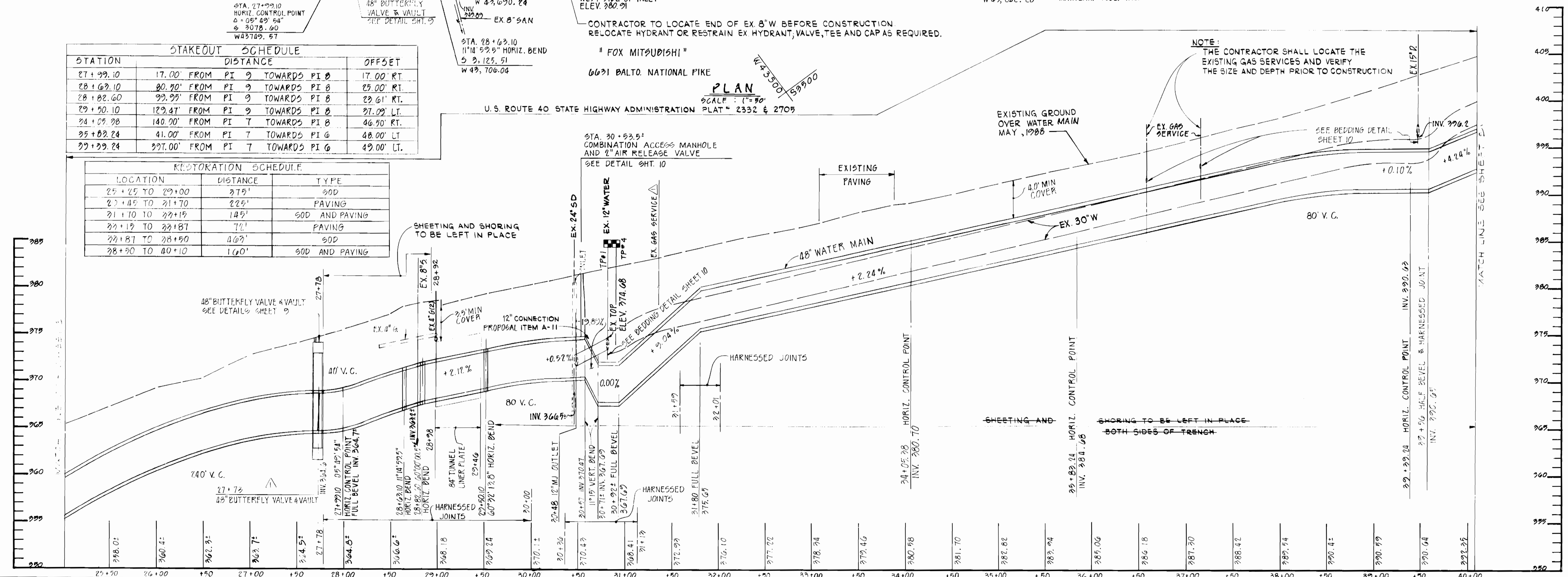
STRAW BALE DIKE INLET PROTECTION SCHEDULE	
STATION	LOCATION
30 + 50 ±	8' LT.
34 + 05 ±	8' LT.
37 + 50 ±	10' LT.



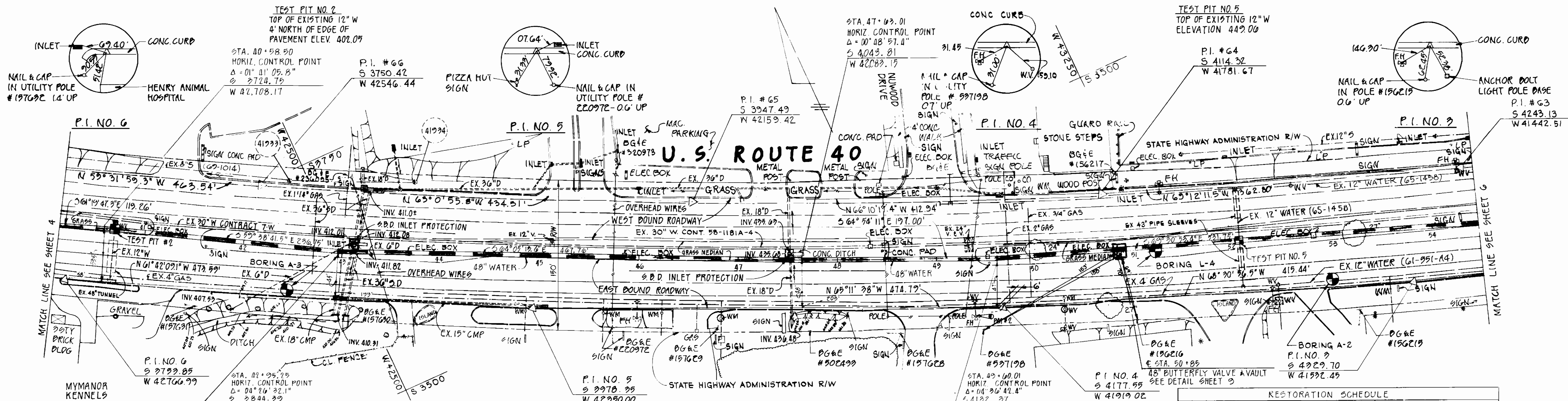
NOTE: 8\"/>

STAKEOUT SCHEDULE			
STATION	DISTANCE	TO	OFFSET
27+99.10	17.00'	FROM PI 9 TOWARDS PI 8	17.00' RT.
28+69.10	80.90'	FROM PI 9 TOWARDS PI 8	29.00' RT.
28+82.60	99.95'	FROM PI 9 TOWARDS PI 8	29.61' RT.
29+50.10	129.47'	FROM PI 9 TOWARDS PI 8	31.97' LT.
34+05.28	180.90'	FROM PI 7 TOWARDS PI 6	46.90' RT.
35+02.24	41.00'	FROM PI 7 TOWARDS PI 6	48.00' LT.
37+39.24	397.00'	FROM PI 7 TOWARDS PI 6	49.00' LT.

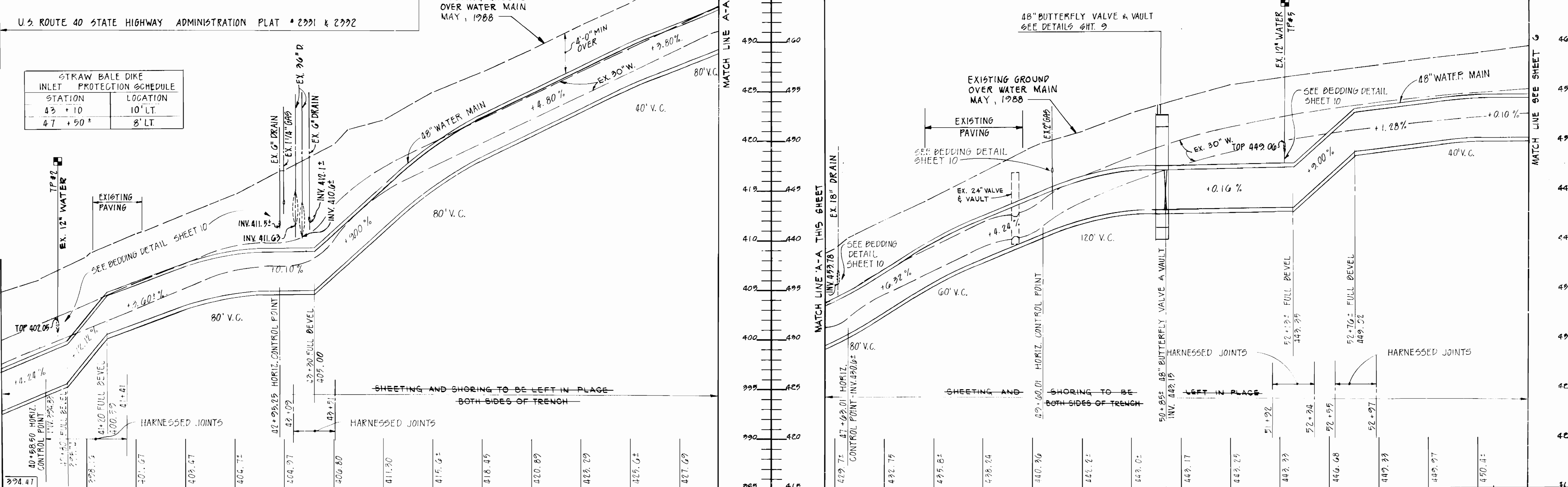
RESTORATION SCHEDULE			
LOCATION	DISTANCE	TYPE	
25+25 TO 29+00	375'	SOD	
27+45 TO 27+70	225'	PAVING	
27+70 TO 27+19	149'	SOD AND PAVING	
27+19 TO 27+87	70'	PAVING	
27+87 TO 28+50	63'	SOD	
28+50 TO 40+10	1110'	SOD AND PAVING	



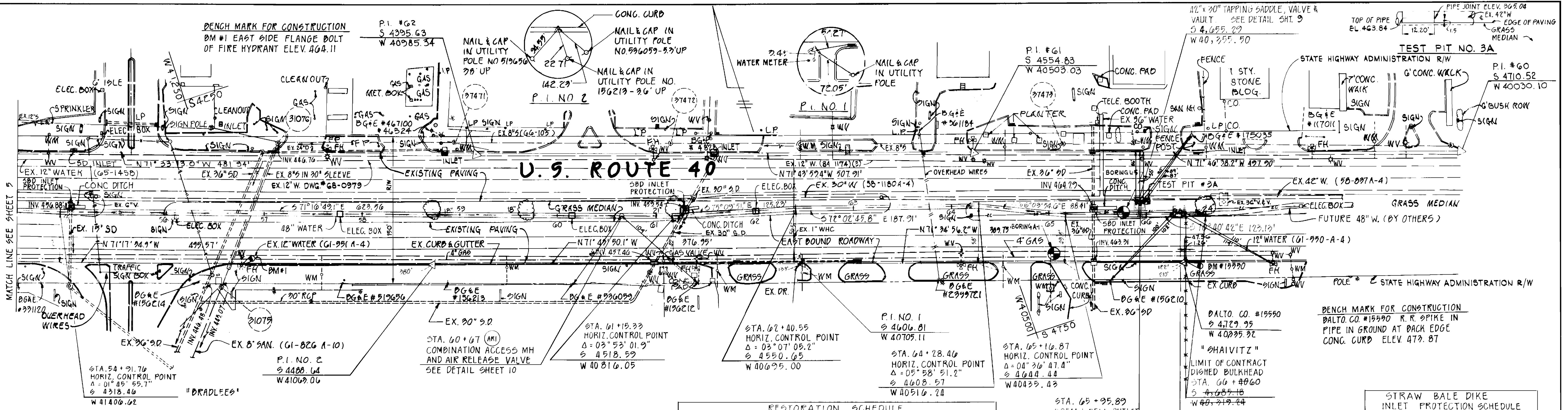
CITY OF BALTIMORE		BALTIMORE COUNTY		DEPARTMENT OF PUBLIC WORKS	
DIRECTOR	DATE	CHIEF, WATER DIVISION	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
DEPT. OF PUBLIC WORKS	2/27/88	BUR. OF WATER AND WASTEWATER	2/27/88	PAUL WILSON	2/27/88
DEPARTMENT OF PUBLIC WORKS		HOWARD COUNTY, MARYLAND		WHITNEY BAILEY COX MAGNANI	
DIRECTOR	DATE	CHIEF, BUREAU OF ENGINEERING	DATE	CONSULTING ENGINEERS	1850 YORK ROAD
DEPT. OF UTILITIES	8-30-88	CHIEF, UTILITY DESIGN DIVISION	DATE	TIMONIUM, MD 21093	301-252-6080
DES: R.J.H.	DRN: K.S.M.	CHK: J.P.	DATE: 10/21/88	MOVED 48\"/>	
PLAN AND PROFILE				U.S. ROUTE 40 WATER TRANSMISSION MAIN	
CAPITAL PROJECT W-8051				CONTRACT NO. 44-1672	
ELECTION DISTRICT NO. 1				BALTIMORE COUNTY, MARYLAND	
SCALE AS SHOWN				SHEET 4 OF 14	



STATION	DISTANCE	OFFSET
40+58.90	28.00' FROM PI 6 TOWARDS PI 5	22.5' LT
42+25.25	122.00' FROM PI 5 TOWARDS PI 6	45.0' RT
47+03.01	202.00' FROM PI 4 TOWARDS PI 5	48.0' RT
49+60.01	6.00' FROM PI 4 TOWARDS PI 5	47.0' RT



CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS		PROFILE SCALE: VERT 1" = 3' HORIZ 1" = 30'	
APPROVED: <i>[Signature]</i> DATE: 9/18/88 DIRECTOR	APPROVED: <i>[Signature]</i> DATE: 9/17/88 CHIEF, WATER ENG. DIVISION	APPROVED: <i>[Signature]</i> DATE: 8-31-88 CHIEF	APPROVED: <i>[Signature]</i> DATE: <i>[Blank]</i> DIRECTOR	DES: R.J.H. DRN: K.S.M. CHK: J.P. DATE: 10/17/88	BY: NO. _____ REVISION _____ DATE _____ BLOCK NO. _____
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND			U.S. ROUTE 40 WATER TRANSMISSION MAIN CAPITAL PROJECT W-8051 CONTRACT NO. 44-1672 ELECTION DISTRICT NO. 1 BALTIMORE COUNTY, MARYLAND		



STAKEOUT SCHEDULE

STATION	DISTANCE	OFFSET
54+91.76	380.00' FROM PI 2 TOWARDS PI 2	51.0' RT.
61+19.22	122.00' FROM PI 1 TOWARDS PI 2	49.0' RT.
62+40.22	8.00' FROM PI 1 TOWARDS PI 2	56.5' RT.
64+28.46	210.00' FROM BALTO. CO. MON. #15550 TO PI 1	58.0' RT.
65+16.87	122.00' FROM BALTO. CO. MON. #15550 TO PI 1	49.5' RT.
66+40.00	1.16' BEYOND BALTO. CO. MON. #15550 FROM PI 1	47.56' LT.

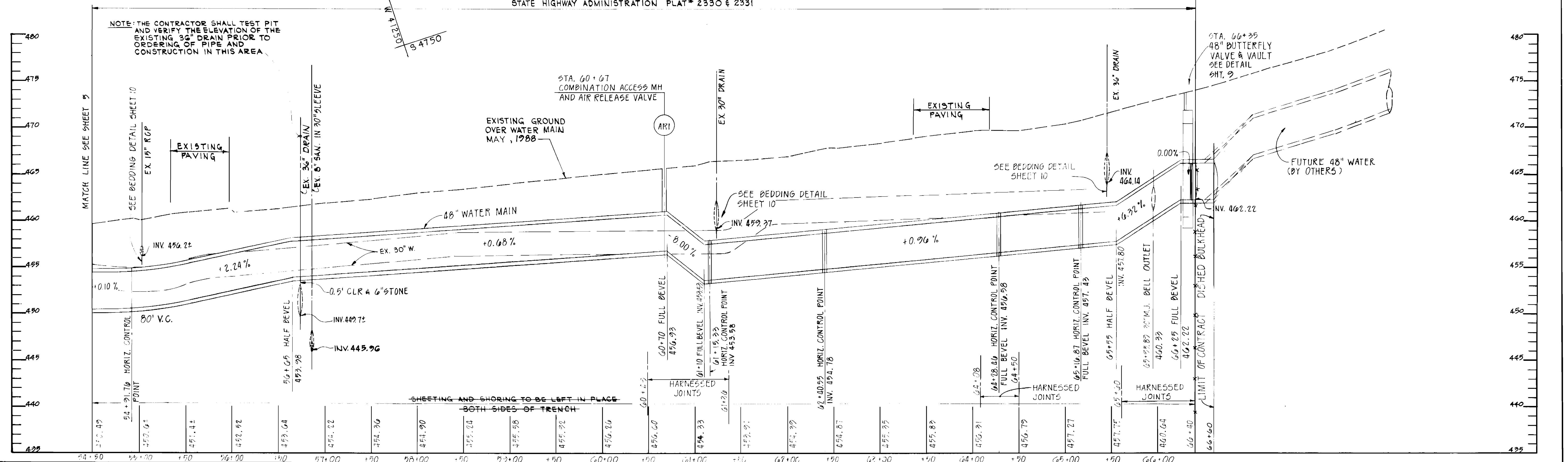
RESTORATION SCHEDULE

LOCATION	DISTANCE	TYPE
54+43 TO 55+25	87'	ROAD & PAVING
55+25 TO 55+28	63'	PAVING
55+28 TO 62+37	729'	ROAD
62+37 TO 64+16	79'	PAVING
64+16 TO 66+60	244'	ROAD & PAVING

STRAW BALE DIKE INLET PROTECTION SCHEDULE

STATION	LOCATION
55+05	8' LT.
61+30	10' LT.
65+45	10' LT.

PLAN
SCALE: 1"=50'
STATE HIGHWAY ADMINISTRATION PLAT # 2330 & 2331



CITY OF BALTIMORE
DIRECTOR: [Signature] DATE: 9/16/88
CHIEF, WATER ENG. DIVISION: [Signature] DATE: 9/17/88
MUR. OF WATER AND WASTEWATER: [Signature] DATE: 9/17/88

PROFILE
SCALE: HORIZ 1"=50', VERT 1"=5'
BALTIMORE COUNTY
BUREAU OF ENGINEERING: [Signature] DATE: 8-31-88
DEPARTMENT OF PUBLIC WORKS: [Signature] DATE: [Signature]

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS: [Signature] DATE: 2-20-88
CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: [Signature]
CHIEF, BUREAU OF UTILITIES: [Signature] DATE: 8-30-88
CHIEF, UTILITY DESIGN DIVISION: [Signature] DATE: 8-30-88

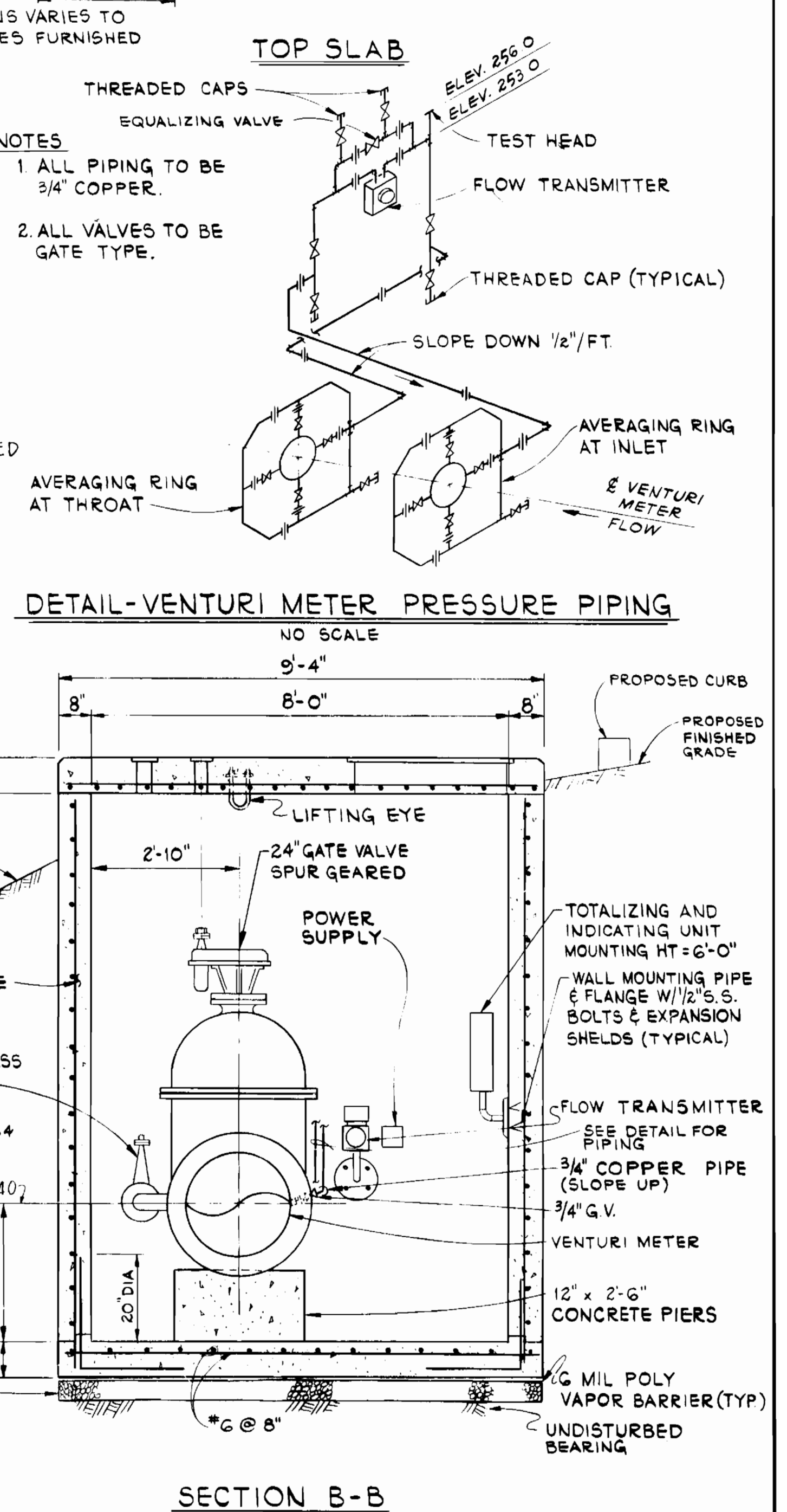
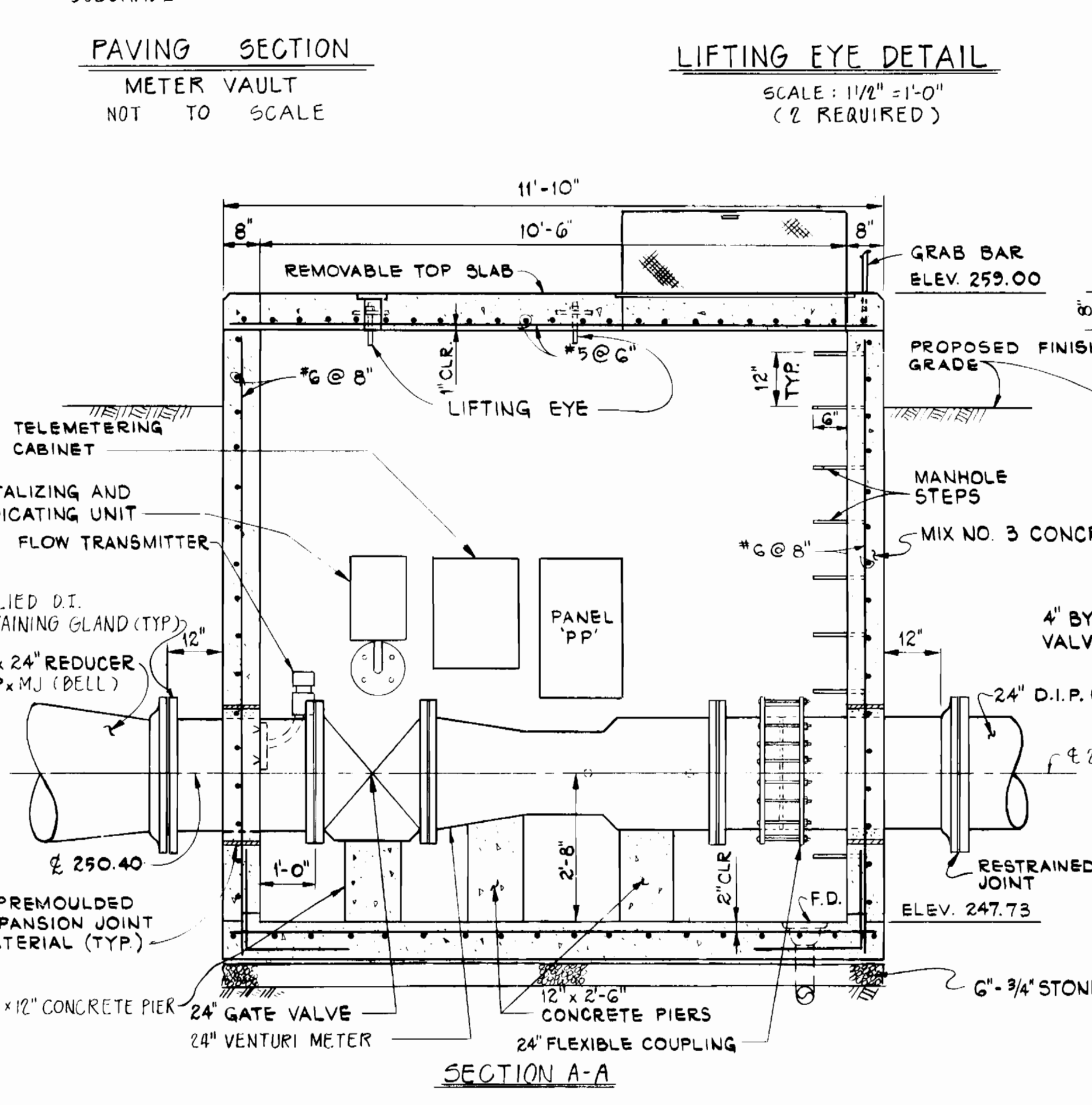
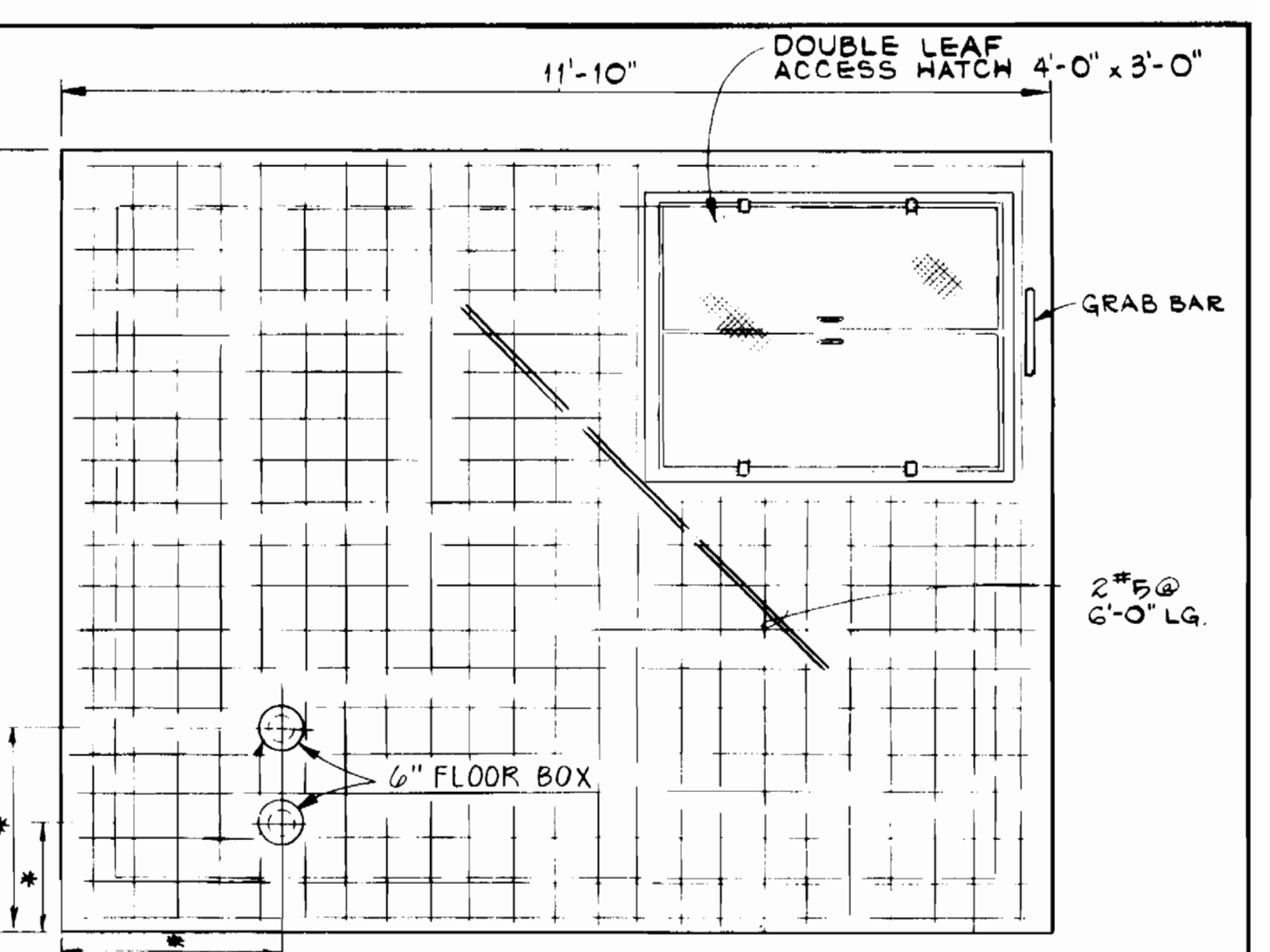
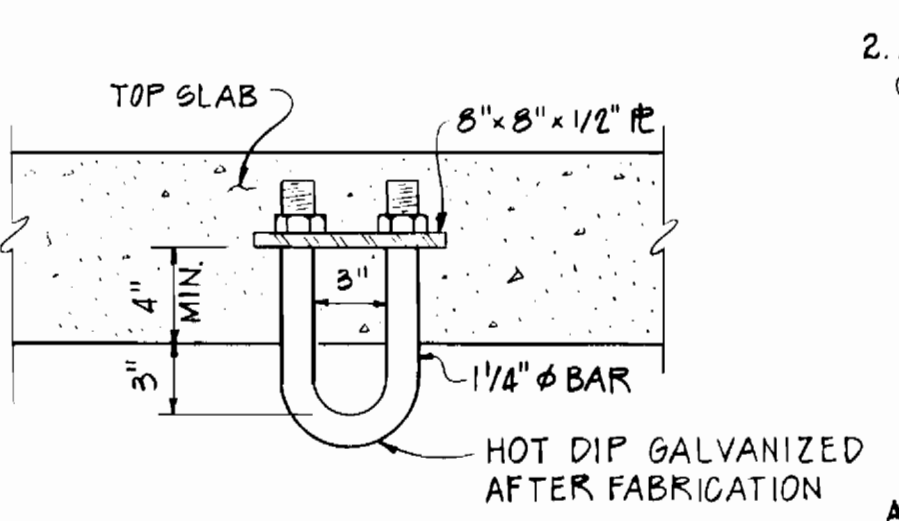
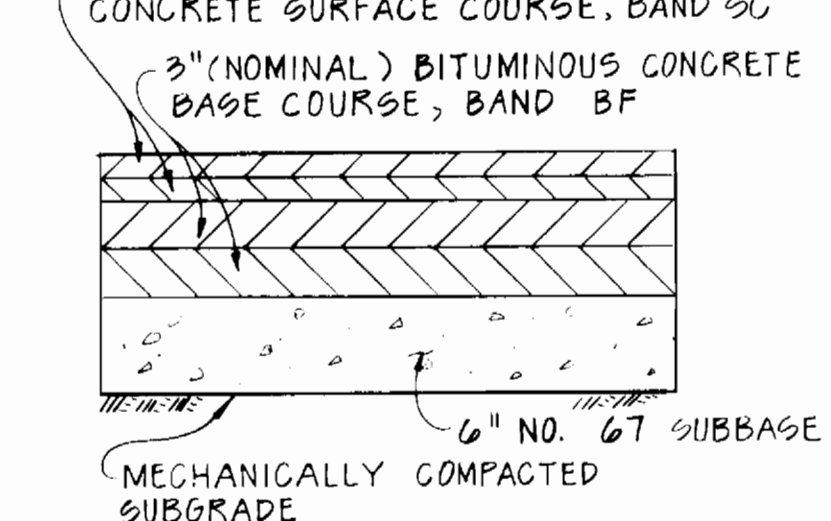
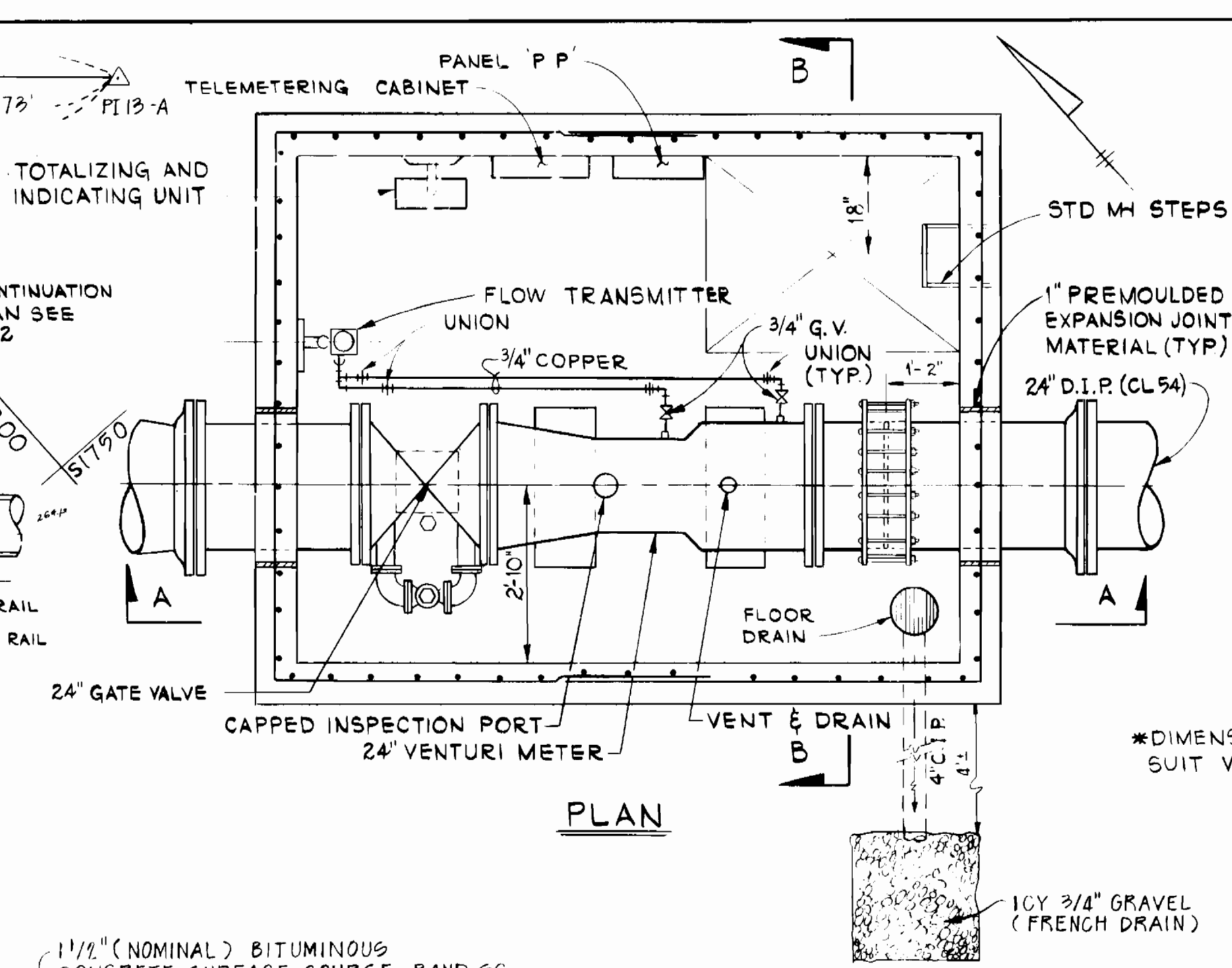
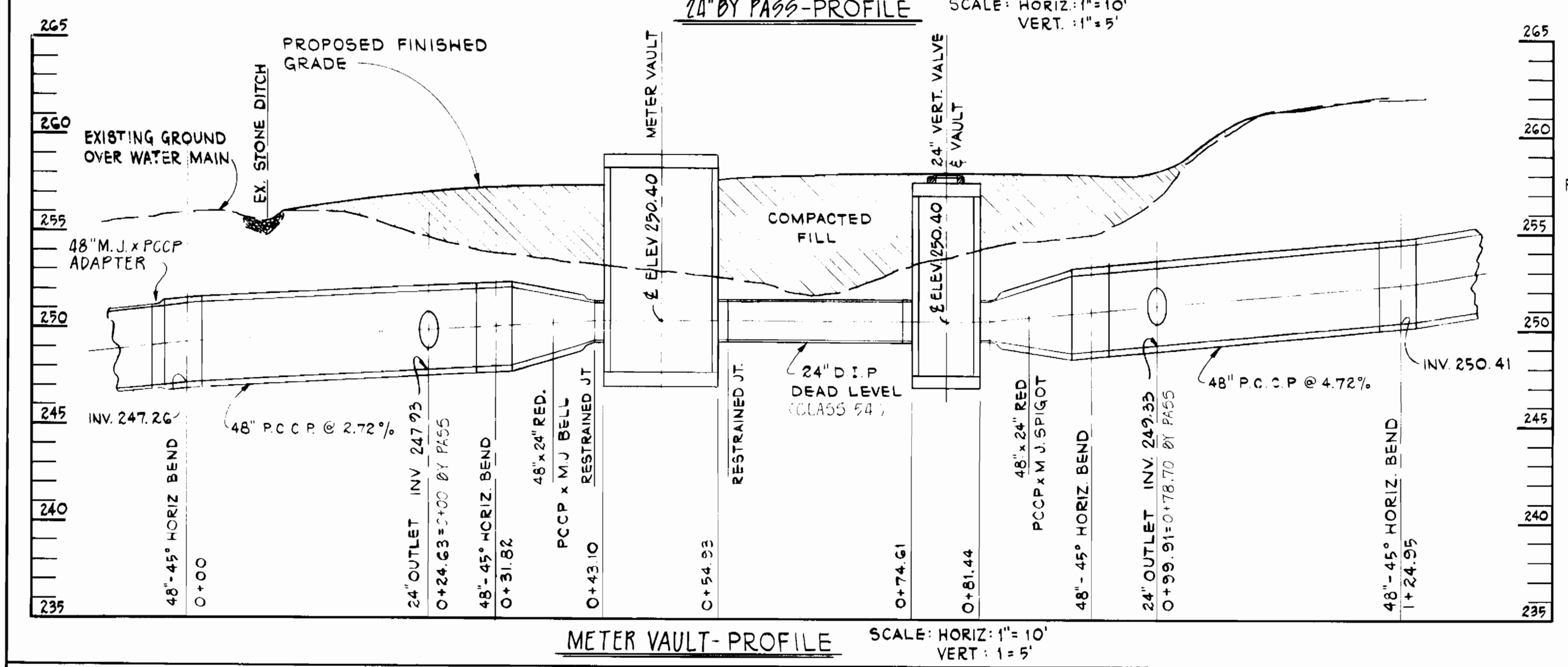
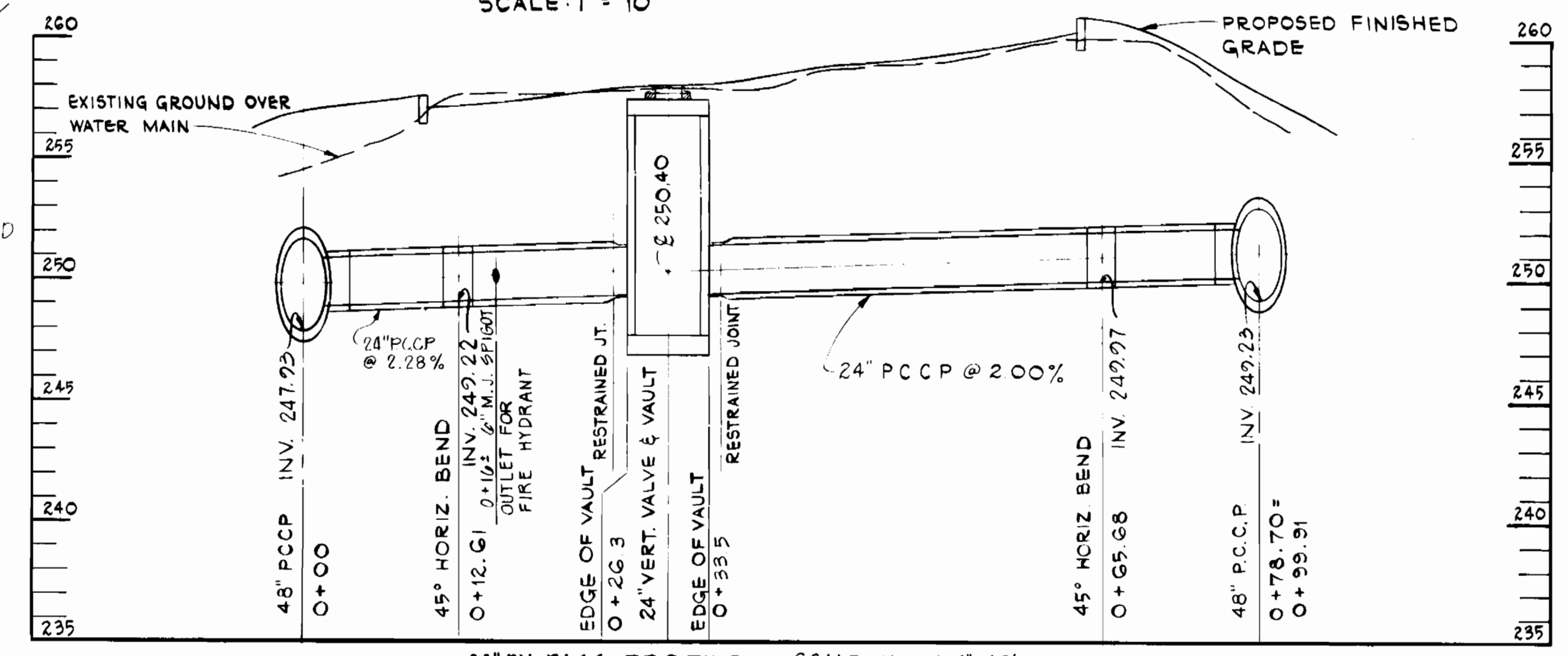
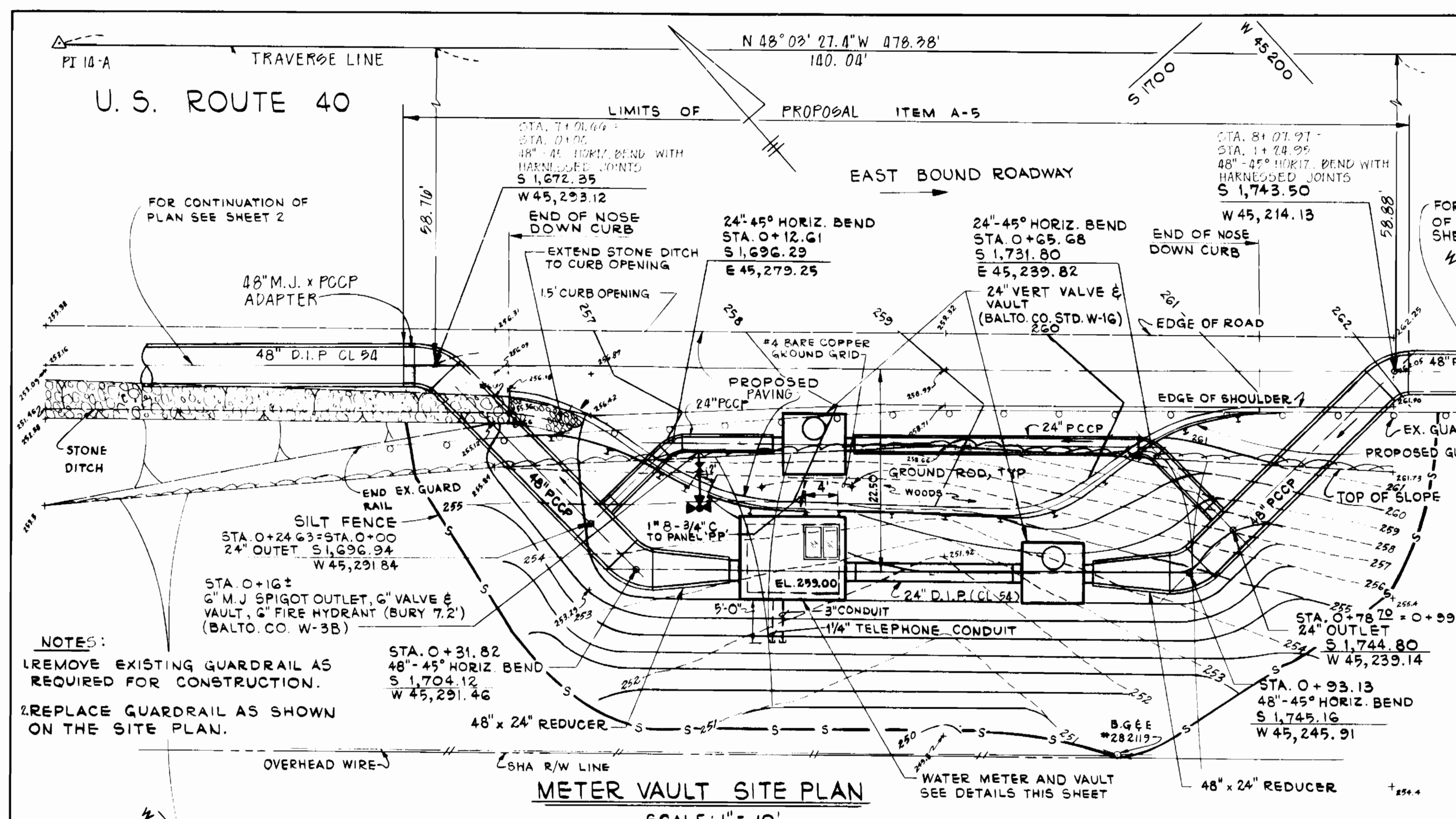
WHITNEY
ENGINEERS
950 YORK ROAD
TIMONIUM, MD 21093
301-252-6060

DES: R. J. H.	DATE: 10/17/88
DRN: K. S. M.	
CHK: J. P.	
BY: NO.	REVISION
DATE	DATE

PLAN AND PROFILE

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 6 OF 14



DIRECTOR DEPT. OF PUBLIC WORKS, BALTO. COUNTY DATE: 10/11/88		CHIEF, WATER ENG. DIVISION BUR. OF WATER AND WASTEWATER, BALTO. CITY DATE: 10/11/88		BUREAU OF ENGINEERING APPROVED: Paul Hudson BALTO. COUNTY CHIEF DATE: 8-31-88		DEPARTMENT OF PUBLIC WORKS APPROVED: [Signature] BALTIMORE CITY DIRECTOR DATE: 9/21/87	
--	--	---	--	--	--	---	--

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 8/1/88
Chief, Bureau of Utilities: [Signature] DATE: 8-30-88

Chief, Bureau of Engineering: [Signature] DATE: 8-30-88
Chief, Utility Design Division: [Signature] DATE: 8-30-88

WHITNEY BAILEY CONSULTING ENGINEERS
1850 YORK ROAD
TIMONIUM, MD 21093
301-252-6060

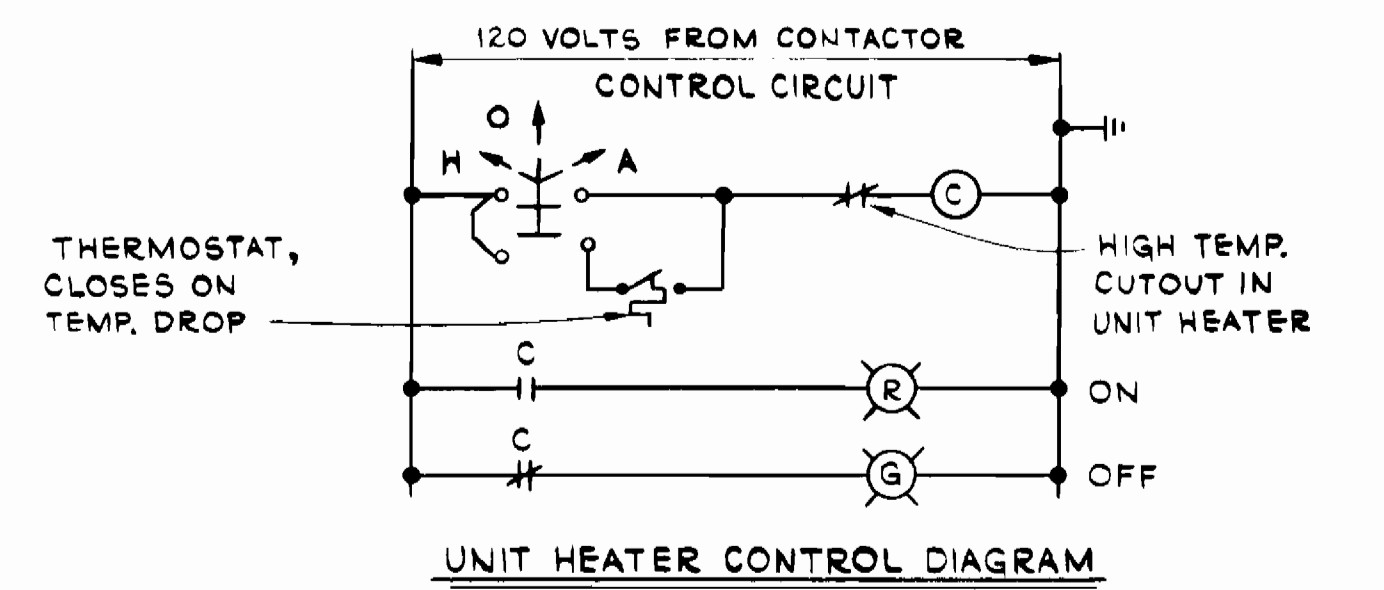
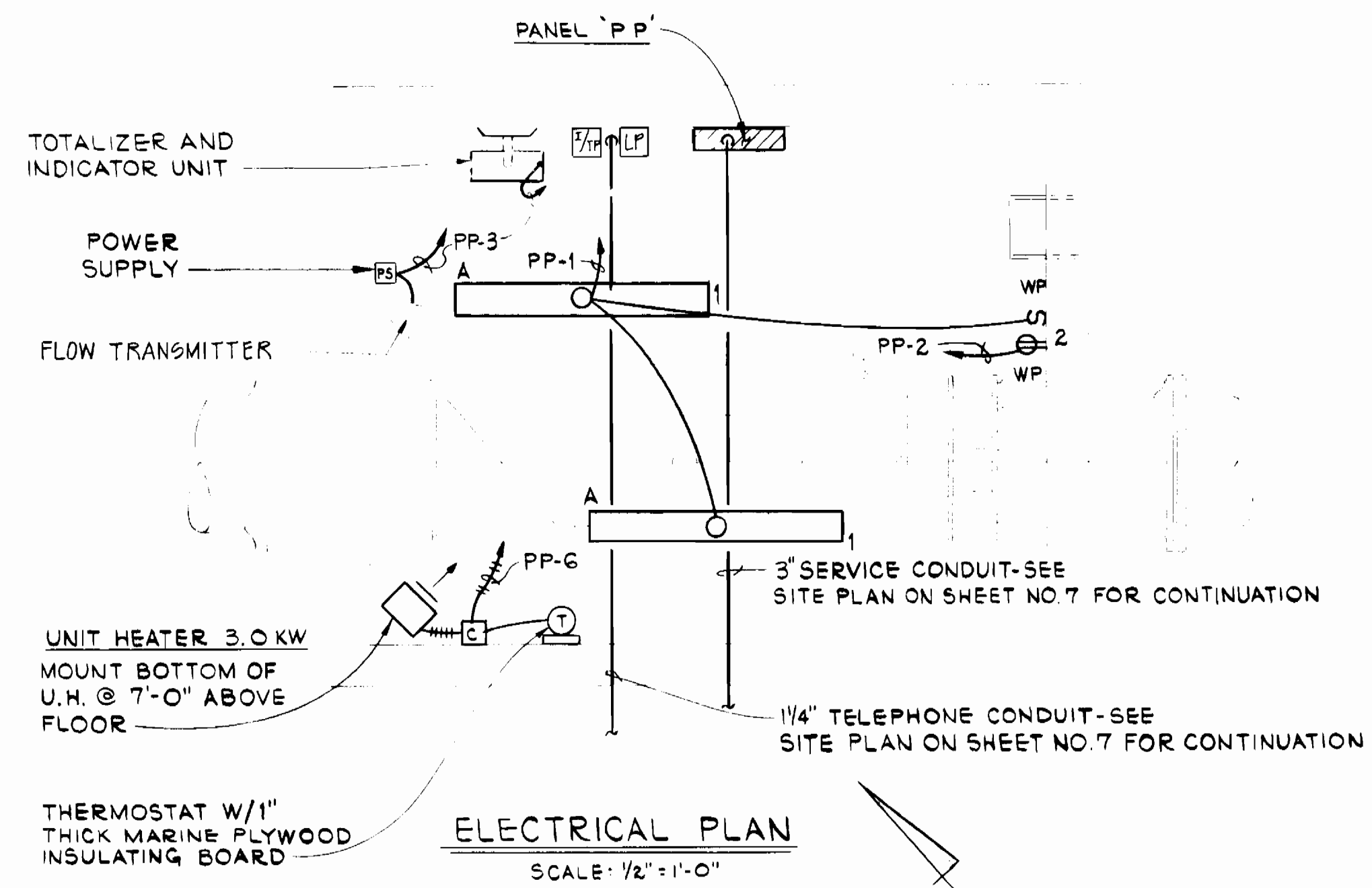
DES: R.J.H.
DRN: R.D.H.
CHK: J.P.
DATE: 10/11/88

METER VAULT DETAILS

60' SCALE MAP NO. _____ BLOCK NO. _____

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

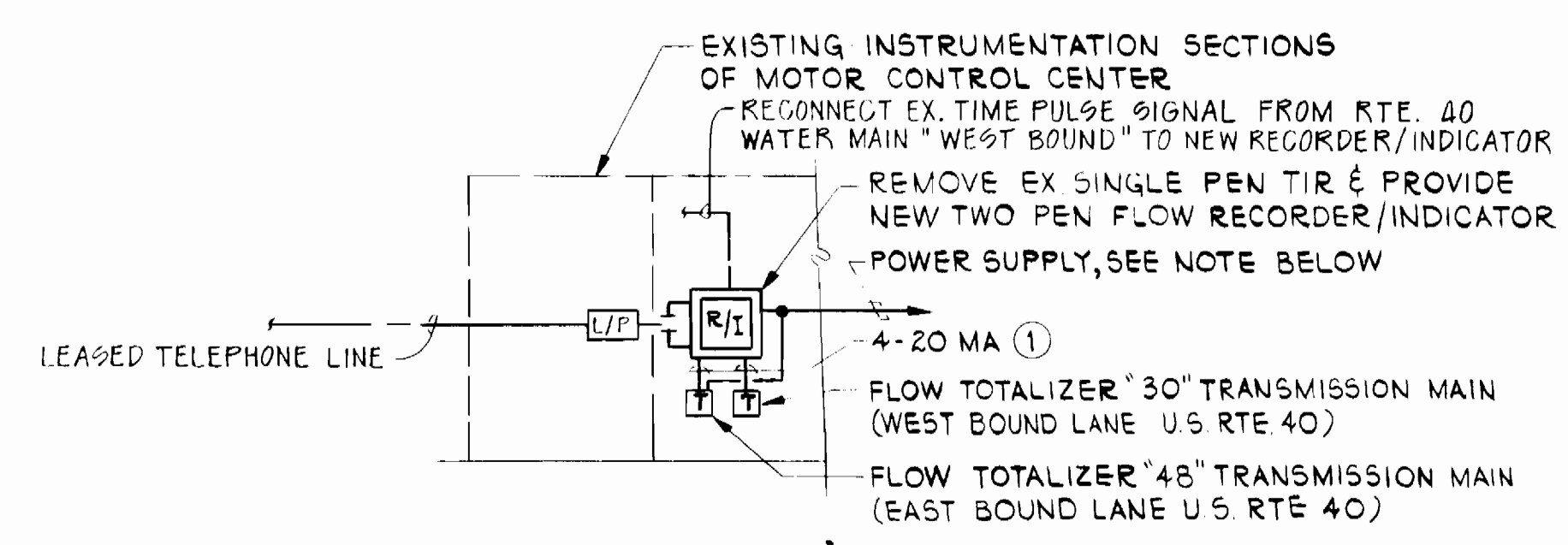
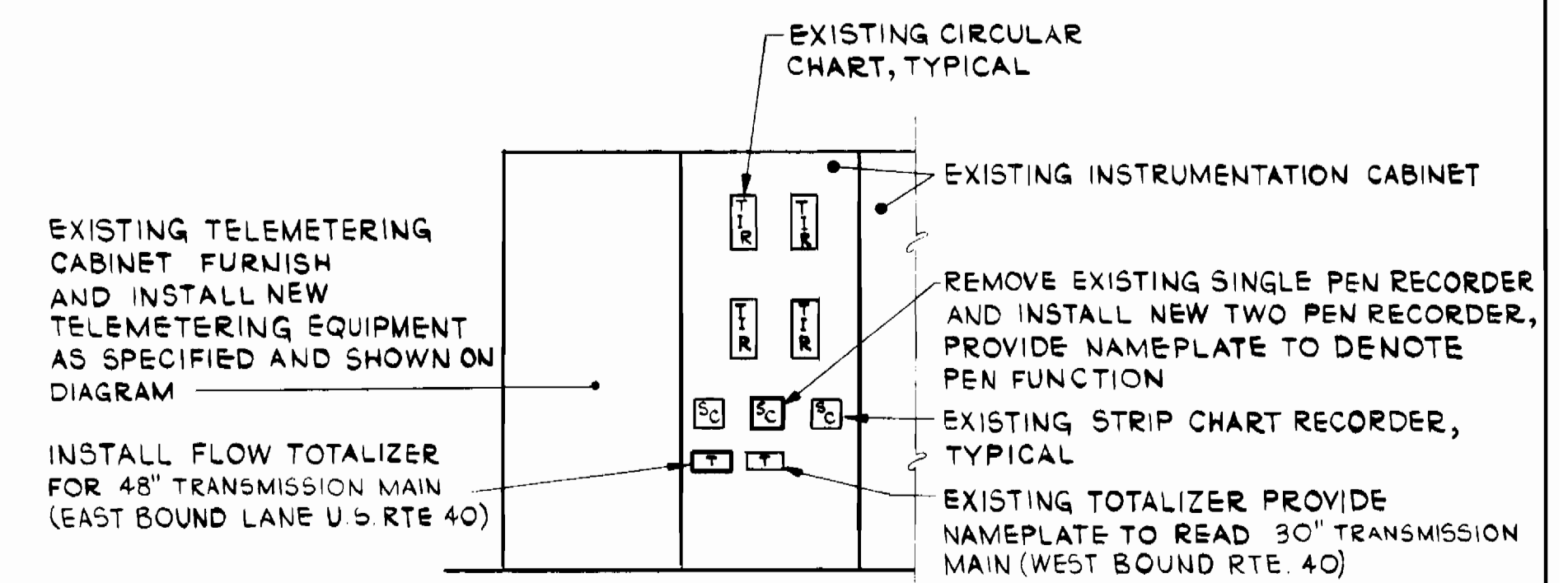
SCALE AS SHOWN
SHEET 7 OF 14



- ELECTRICAL LEGEND**
- A ← LETTER DENOTES FIXTURE TYPE
 - SURFACE MOUNTED FLUORESCENT FIXTURE
 - 1 NUMBER DENOTES CIRCUIT NUMBER
 - S SINGLE POLE SWITCH - M.H. 1'-0" BELOW TOP SLAB
 - CONDUIT ON WALL OR CEILING } 2" 12 & 1" 12
 - UNDERGROUND CONDUIT } 2" 12 & 1" 12
 - ⊞ CONTACTOR, NEMA SIZE 1
 - ⊞ DUPLEX RECEPTACLE - M.H. 3'-0"
 - ⊞ U.O.N. UNLESS OTHERWISE NOTED
 - W.P. WEATHERPROOF
 - HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, NUMBER OF HATCHMARKS INDICATES NUMBER OF CONDUCTORS IF MORE THAN THREE
 - ▭ ELECTRICAL PANELBOARD - M.H. 6'-6" TO TOP

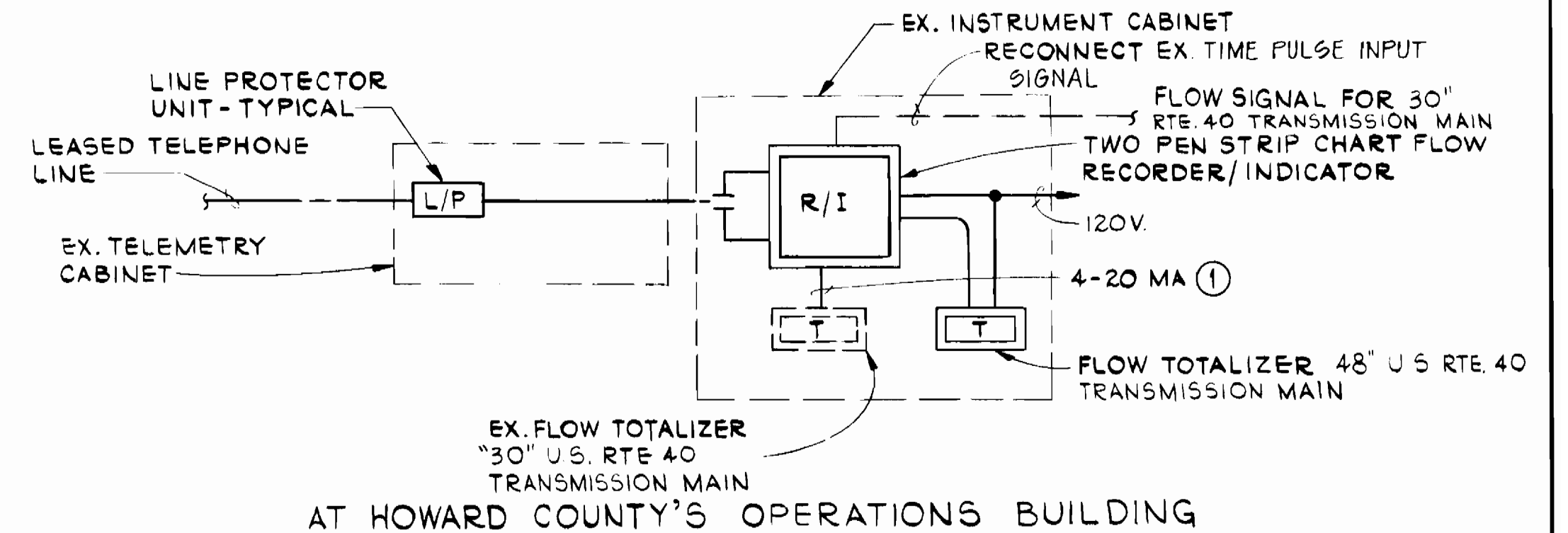
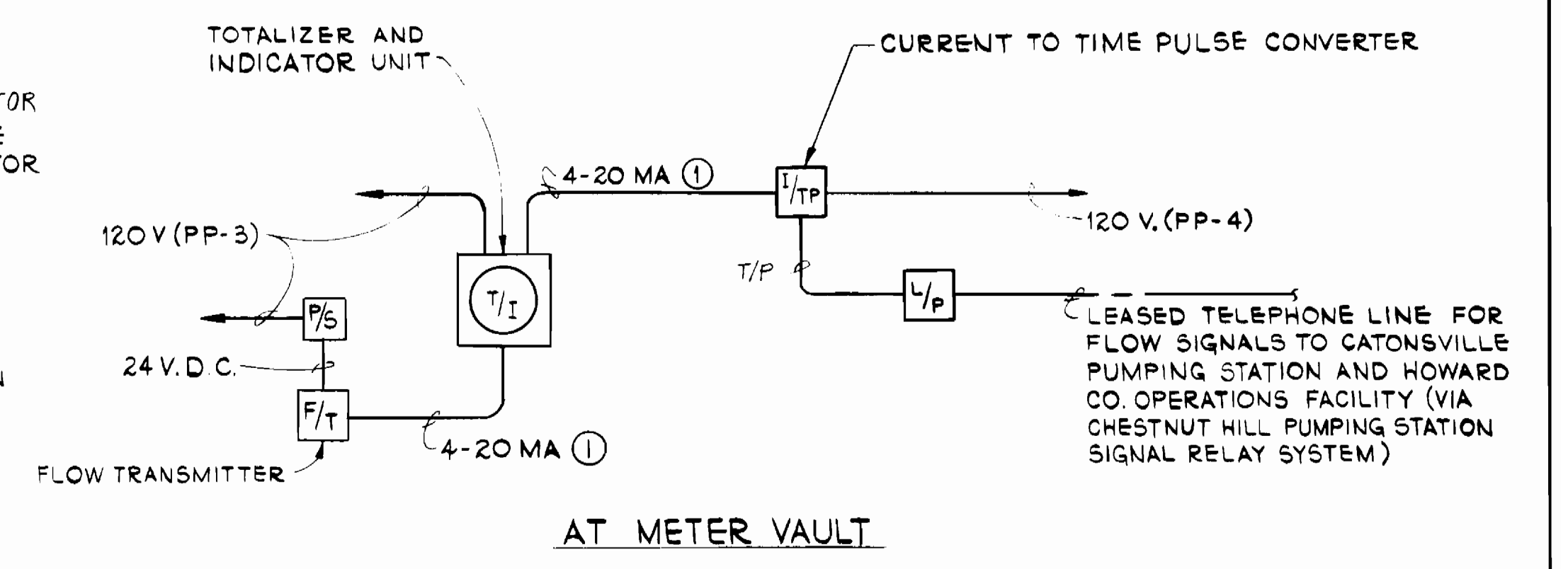
PANEL SCHEDULE: POWER PANEL "PP"-240/120V., 1ϕ, 3 WIRE 100 A. BUS CAPACITY 60 A. MAIN BREAKER

CIRC NO.	FOR	BRANCH BRKR'S			CIRC. NO.	FOR	BRANCH BRKR'S		
		FRAME	POLES	TRIP			FRAME	POLES	TRIP
1	LIGHTS	100	1	20	2	RECEP.	100	1	20
3	FLOW METERING SYSTEM	100	1	20	4	TELEMETERING SYSTEM	100	1	20
5	SPARE	100	1	20	6	UNIT HEATER	100	2	20
7	SPARE	100	1	20					
9	SPACE	100			8	SPARE	100	1	20
11	SPACE	100			10	SPACE	100		



AT BALTIMORE COUNTY'S CATONSVILLE PUMPING STATION

NOTE: PROVIDE 120VOLT POWER SUPPLY FOR NEW COMPONENTS FROM THE EXISTING CIRCUIT PRESENTLY SERVING FLOW RECORDER/INDICATOR/TOTALIZER.



CITY OF BALTIMORE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director: *[Signature]* 9/1/87
 Chief, Water Eng. Division: *[Signature]* 9/7/88
 Chief, Bureau of Water and Wastewater: *[Signature]* 9/14/88

Gipe Associates
CONSULTANTS
BALTIMORE — EASTON
MARYLAND

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
1850 YORK ROAD
TIMONIUM, MD 21093
301-252-6060

BALTIMORE COUNTY
BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS

APPROVED: *[Signature]* 8-31-88
 APPROVED: *[Signature]* 9/1/88

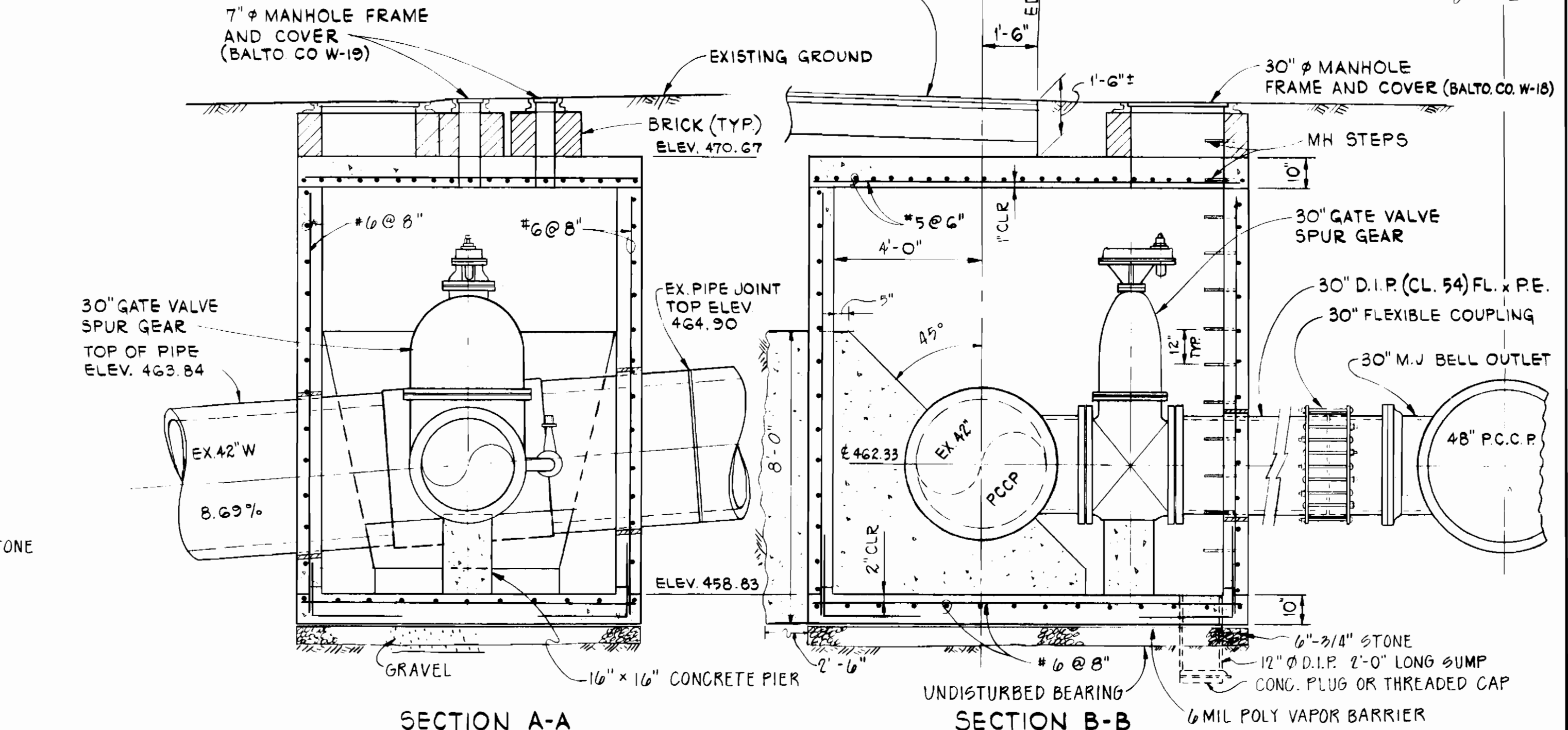
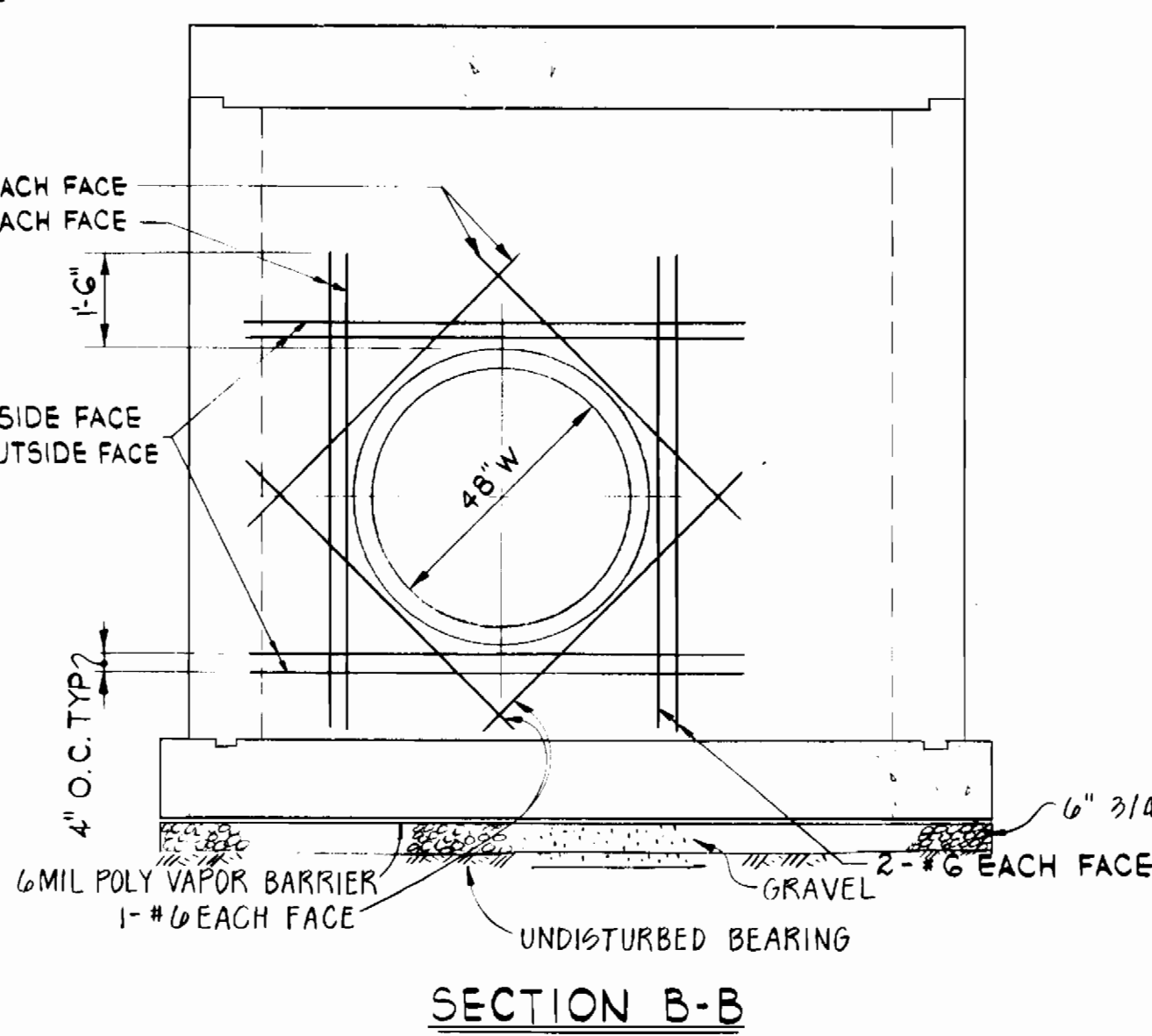
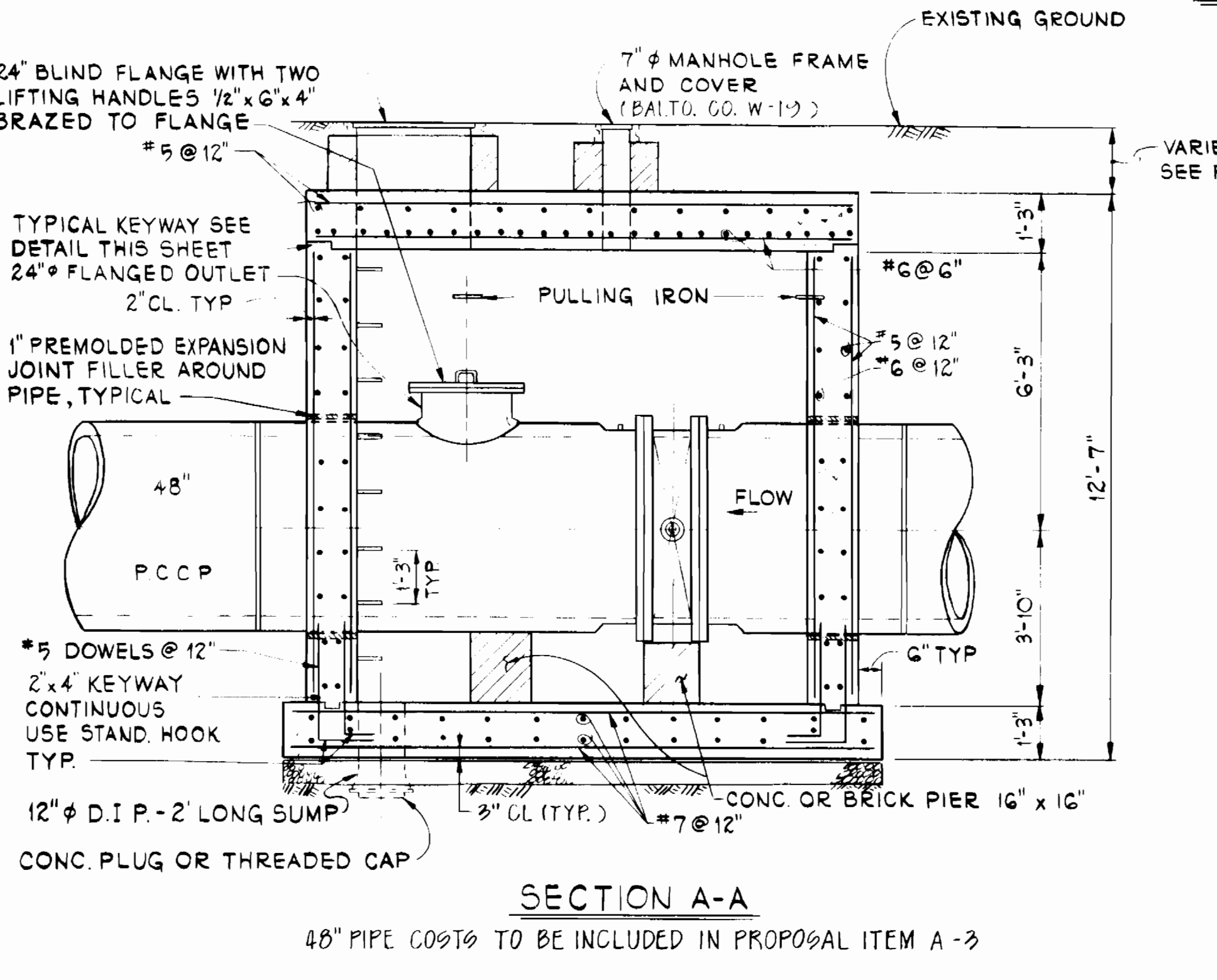
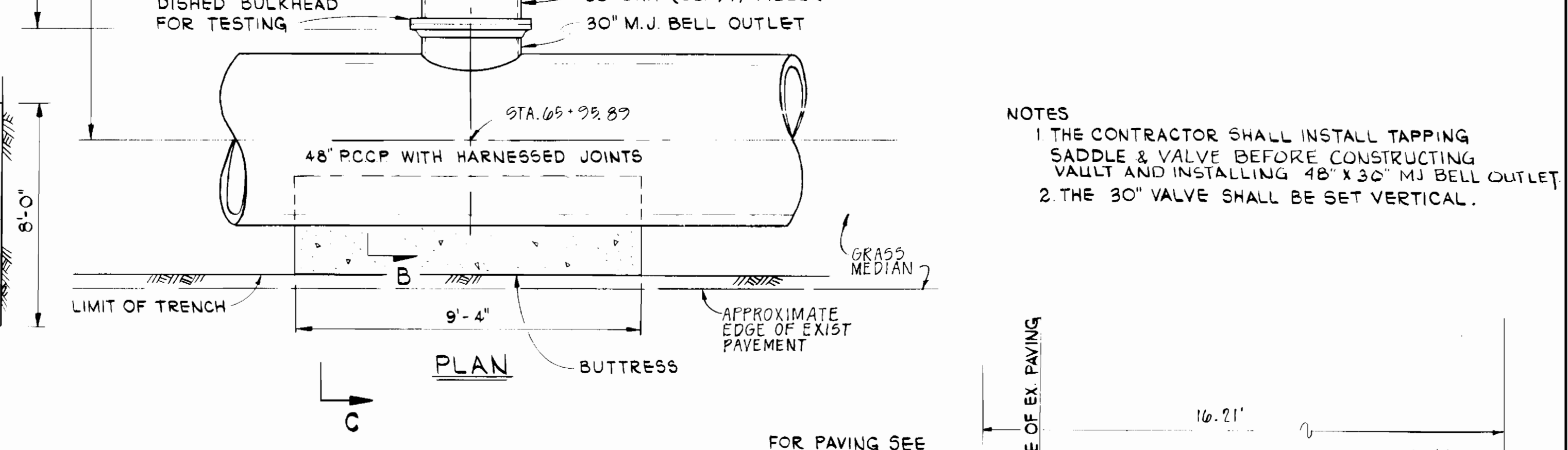
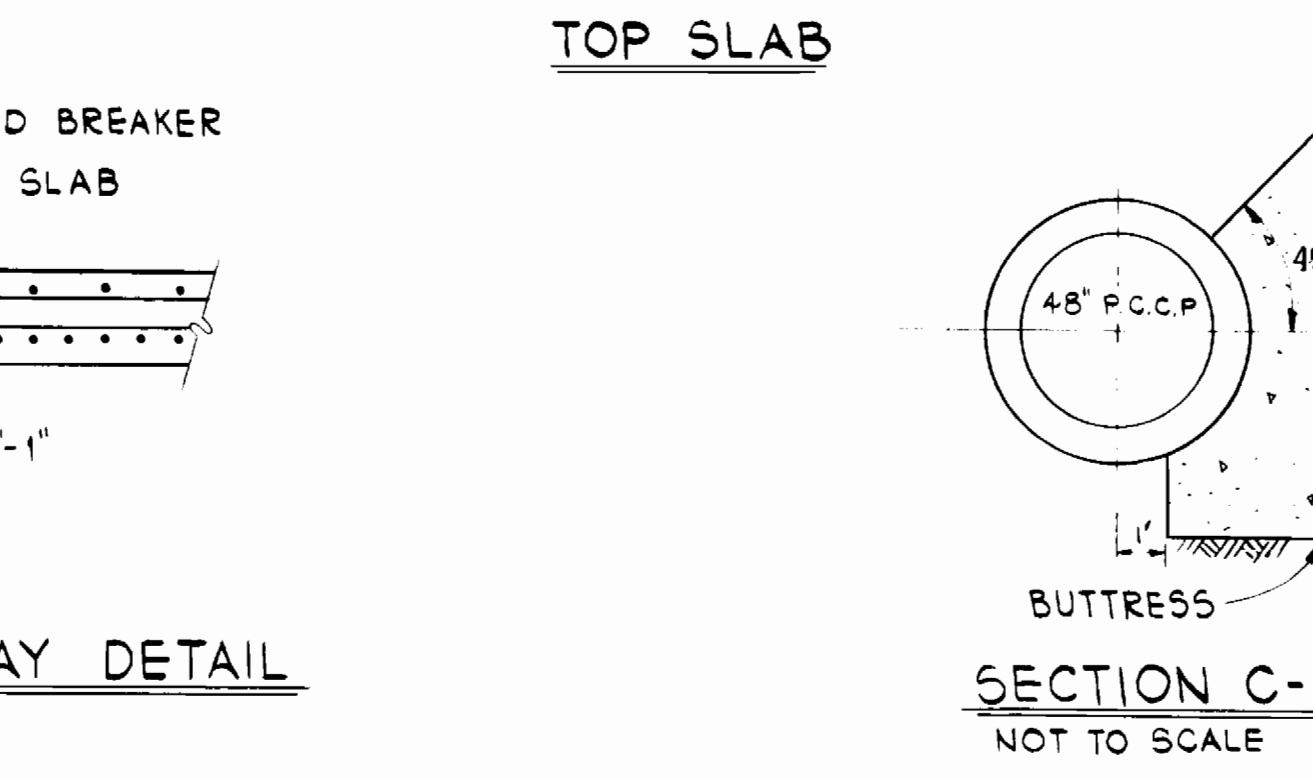
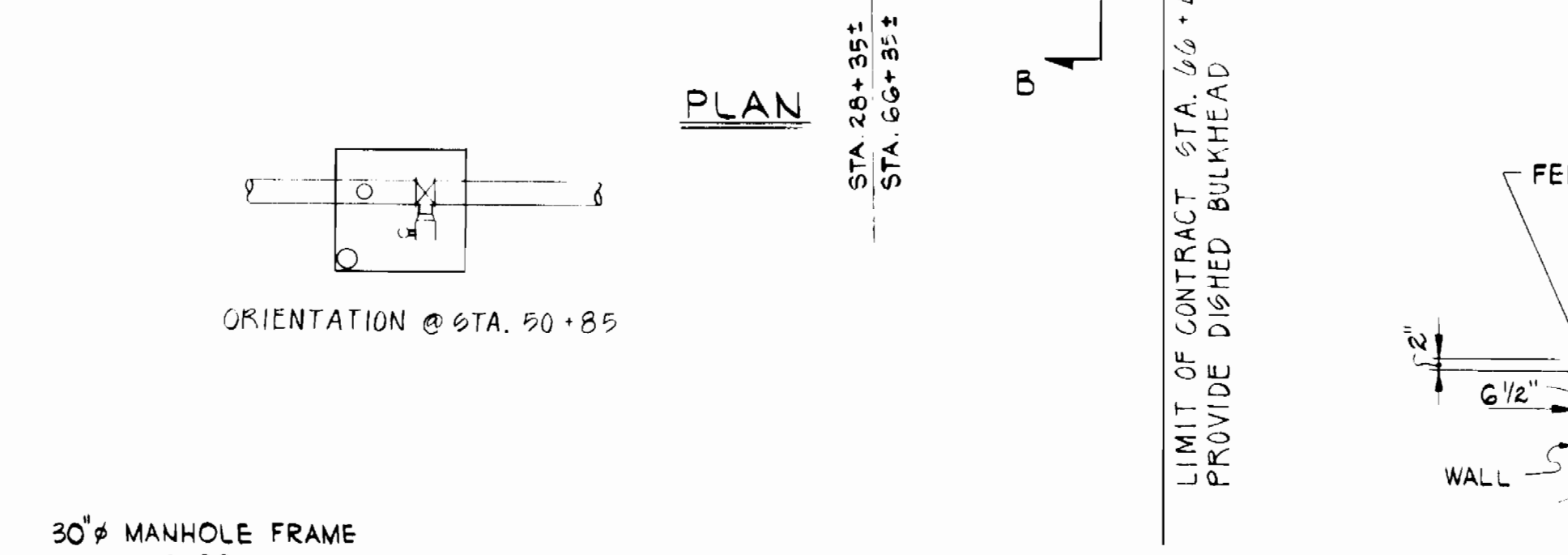
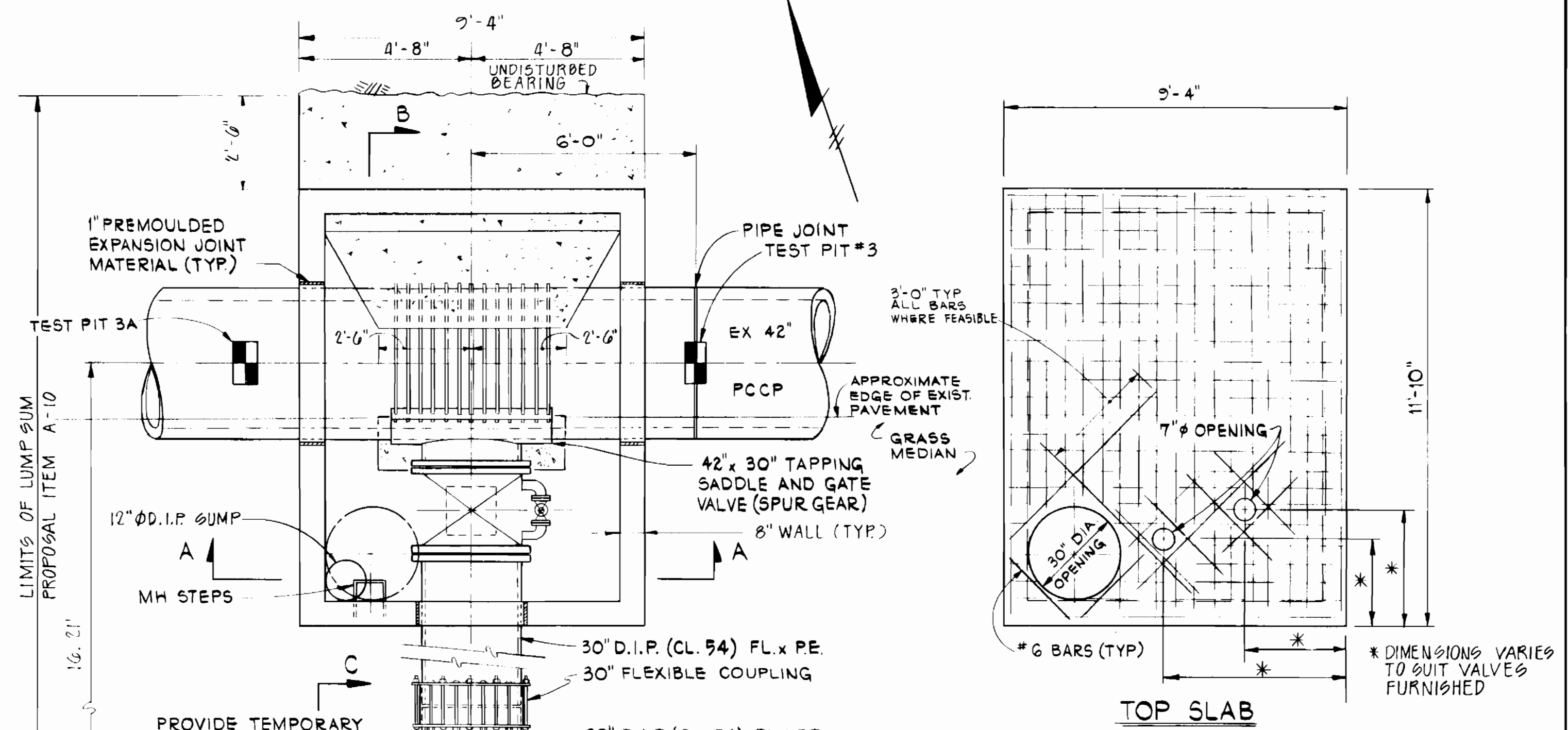
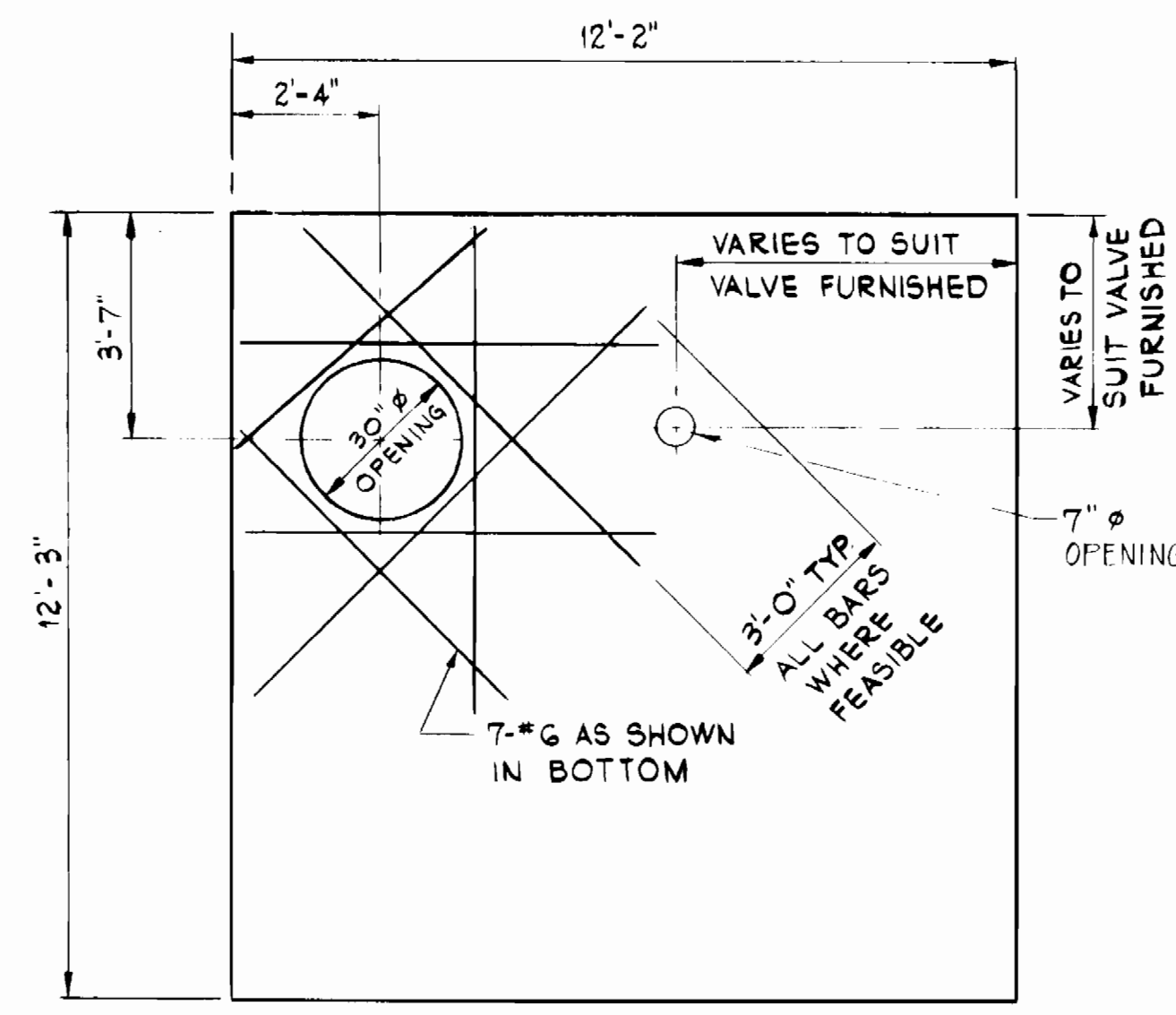
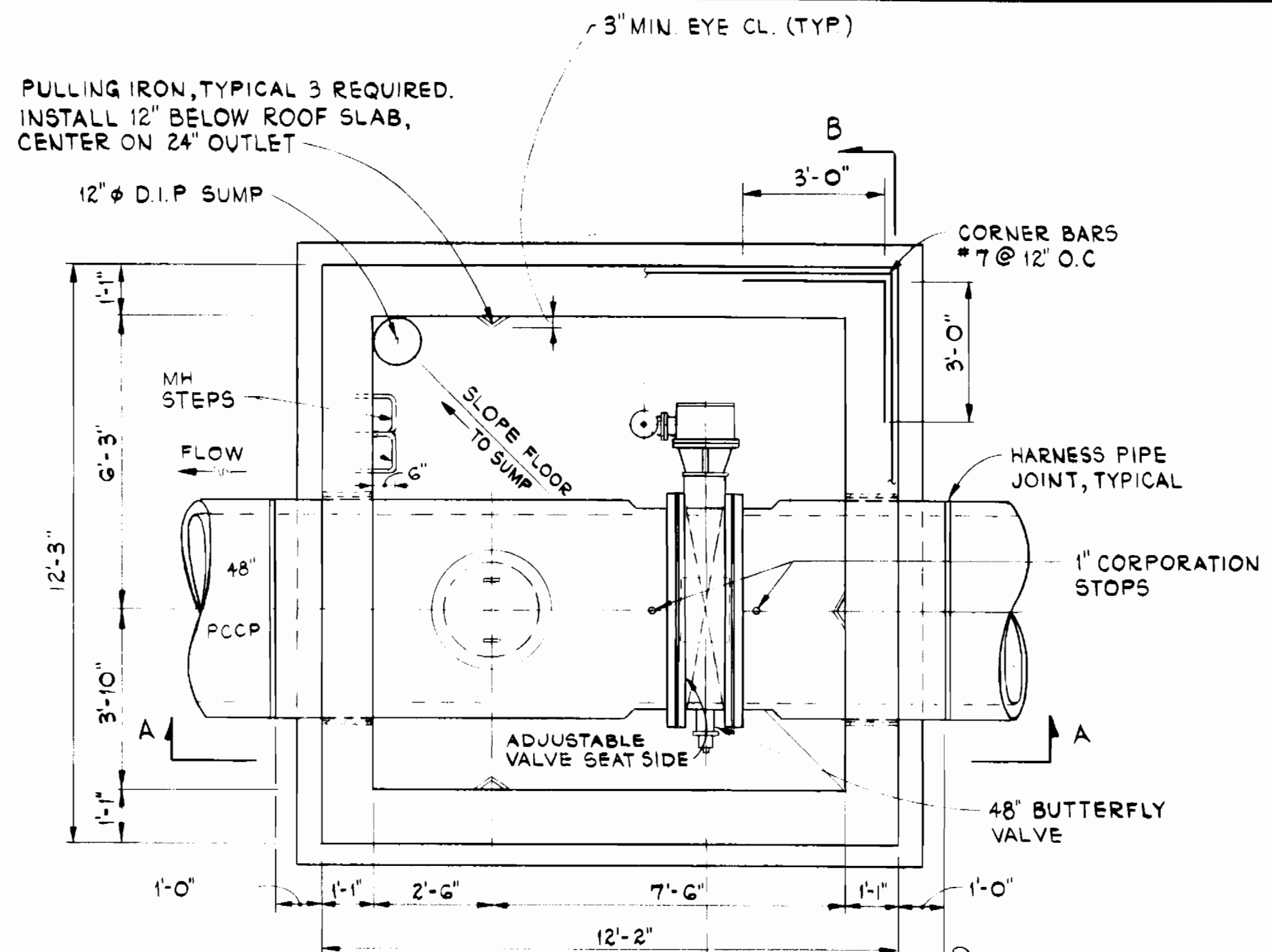
DES: G.D.K.
 DRN: R.D.H.
 CHK: D.K.J.
 DATE: 10/21/88

TELEMETERING/INSTRUMENTATION DIAGRAMS
① 2/C #18 SHIELDED CABLE - 3/4" C.

ELECTRICAL DETAILS

U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 8 OF 14



NOTES
 1. THE CONTRACTOR SHALL INSTALL TAPPING SADDLE & VALVE BEFORE CONSTRUCTING VAULT AND INSTALLING 48" X 30" M.J. BELL OUTLET.
 2. THE 30" VALVE SHALL BE SET VERTICAL.

CITY OF BALTIMORE
 DEPT. OF PUBLIC WORKS
 DIRECTOR: *James J. Sullivan* 3/1/88
 CHIEF, BUREAU OF UTILITIES: *Ruth A. Benjamin* 8-30-88

SCALE: 3/8" = 1'-0"
 STA. 28+35± SHOWN
 STA. 50+85
 STA. 66+35±

WHITNEY BAILEY COX MAGNANI
 CONSULTING ENGINEERS
 1850 YORK ROAD
 TIMONUM, MD 21093
 301-252-6060

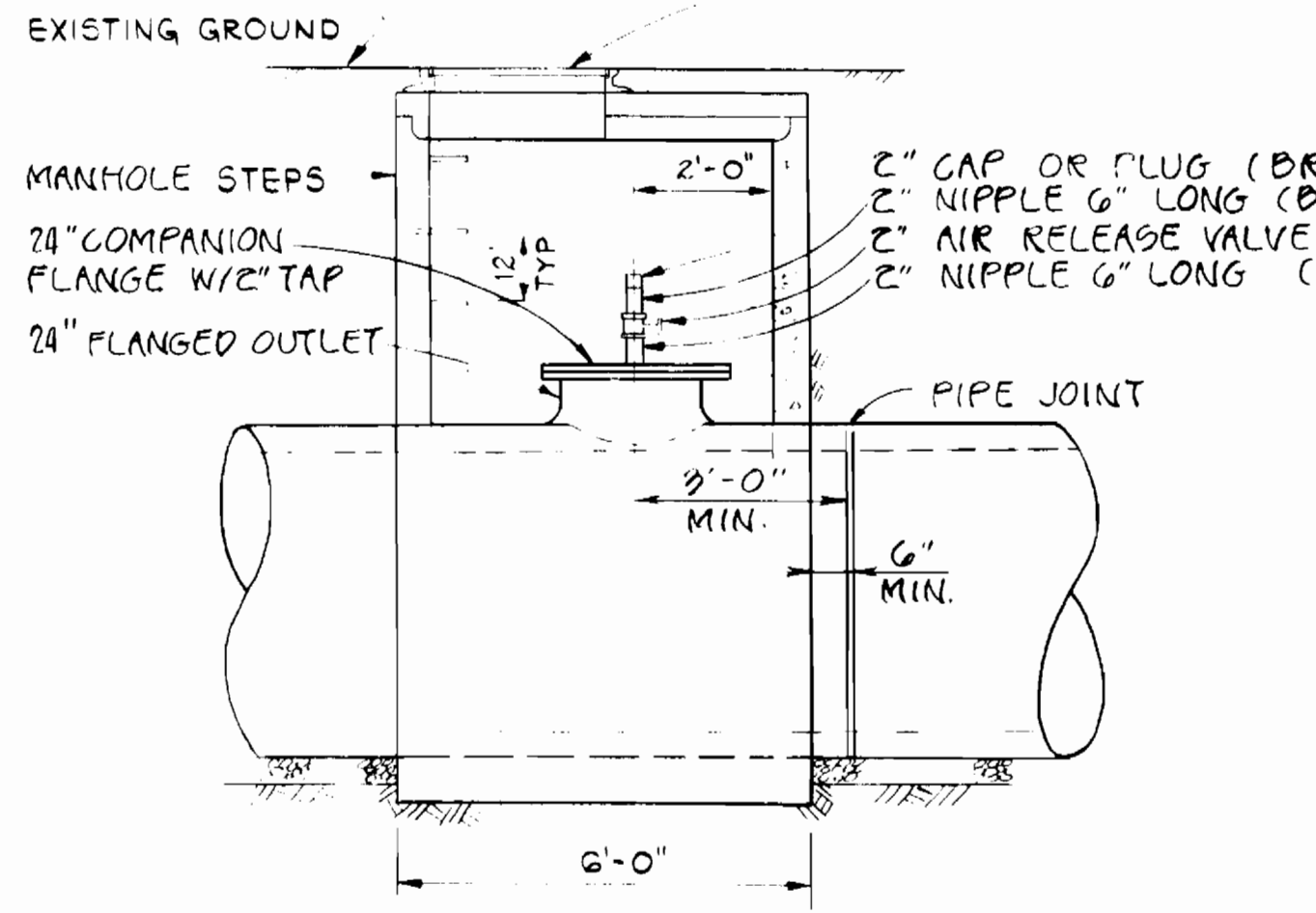
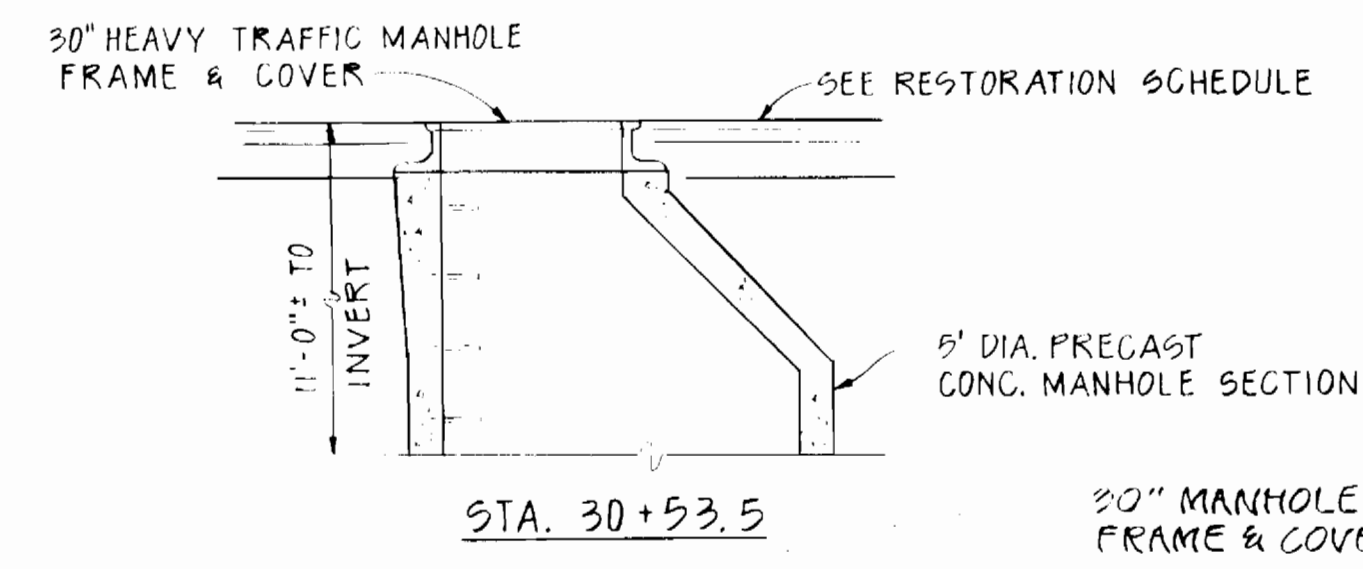
BALTIMORE COUNTY
 BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS
 APPROVED: *Paul Hudson* CHIEF
 APPROVED: *James J. Sullivan* DIRECTOR
 DATE: 8-31-88 DATE: 9/1/88

42" x 30" TAPPING SADDLE VALVE AND VAULT
 SCALE: 3/8" = 1'-0"
 STA. 65 + 95
 CWO.45707

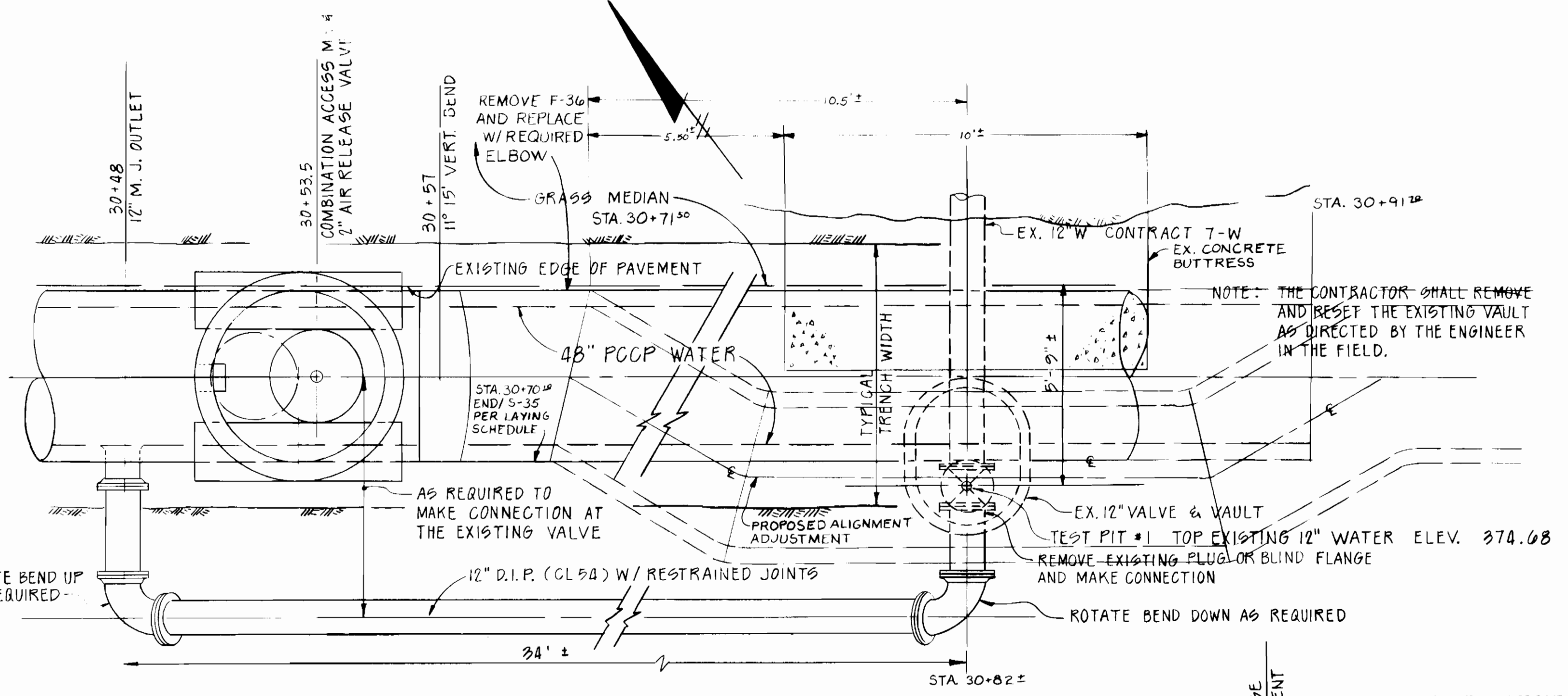
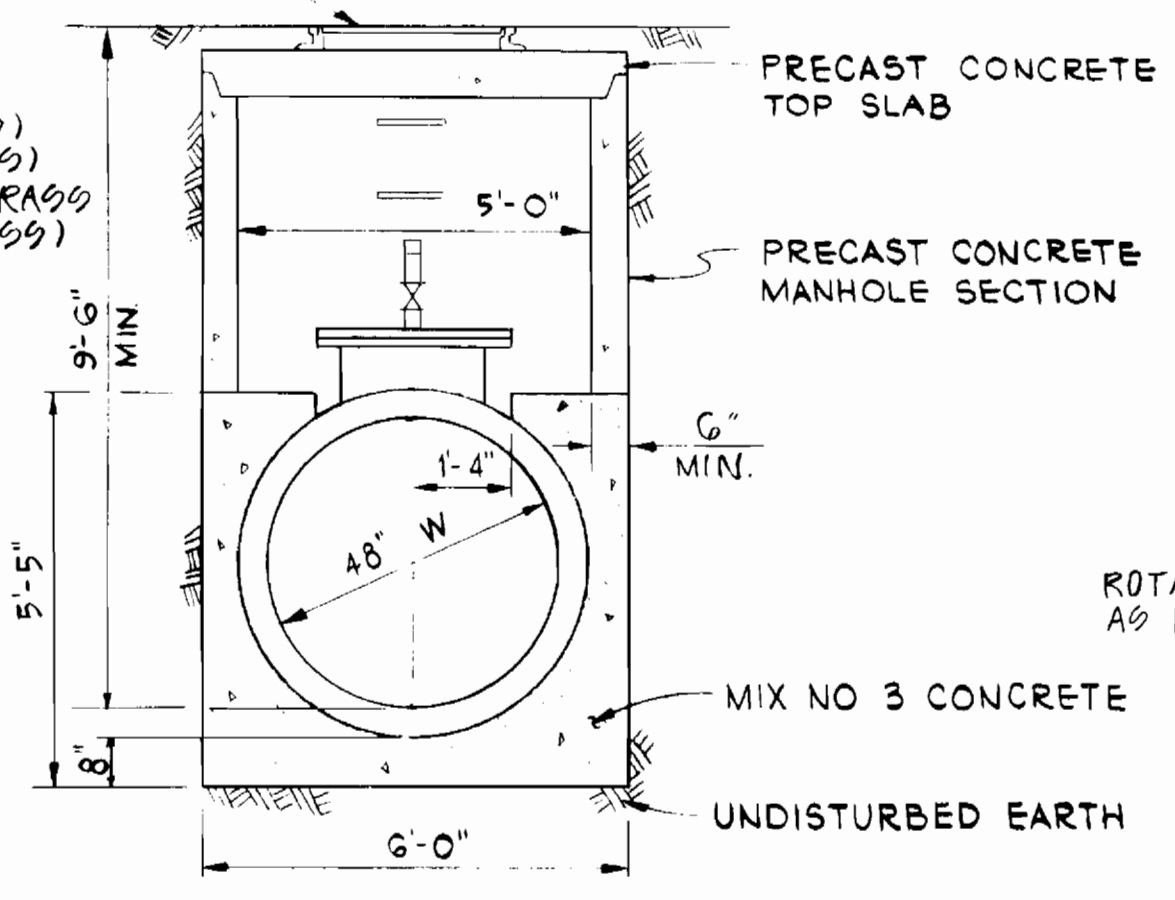
68" BUTTERFLY VALVE AND VAULT DETAILS
 42" x 30" TAPPING SADDLE VALVE AND VAULT DETAILS

U.S. ROUTE 40 WATER TRANSMISSION MAIN
 CAPITAL PROJECT W-8051
 CONTRACT NO. 44-1672
 ELECTION DISTRICT NO. 1
 BALTIMORE COUNTY, MARYLAND

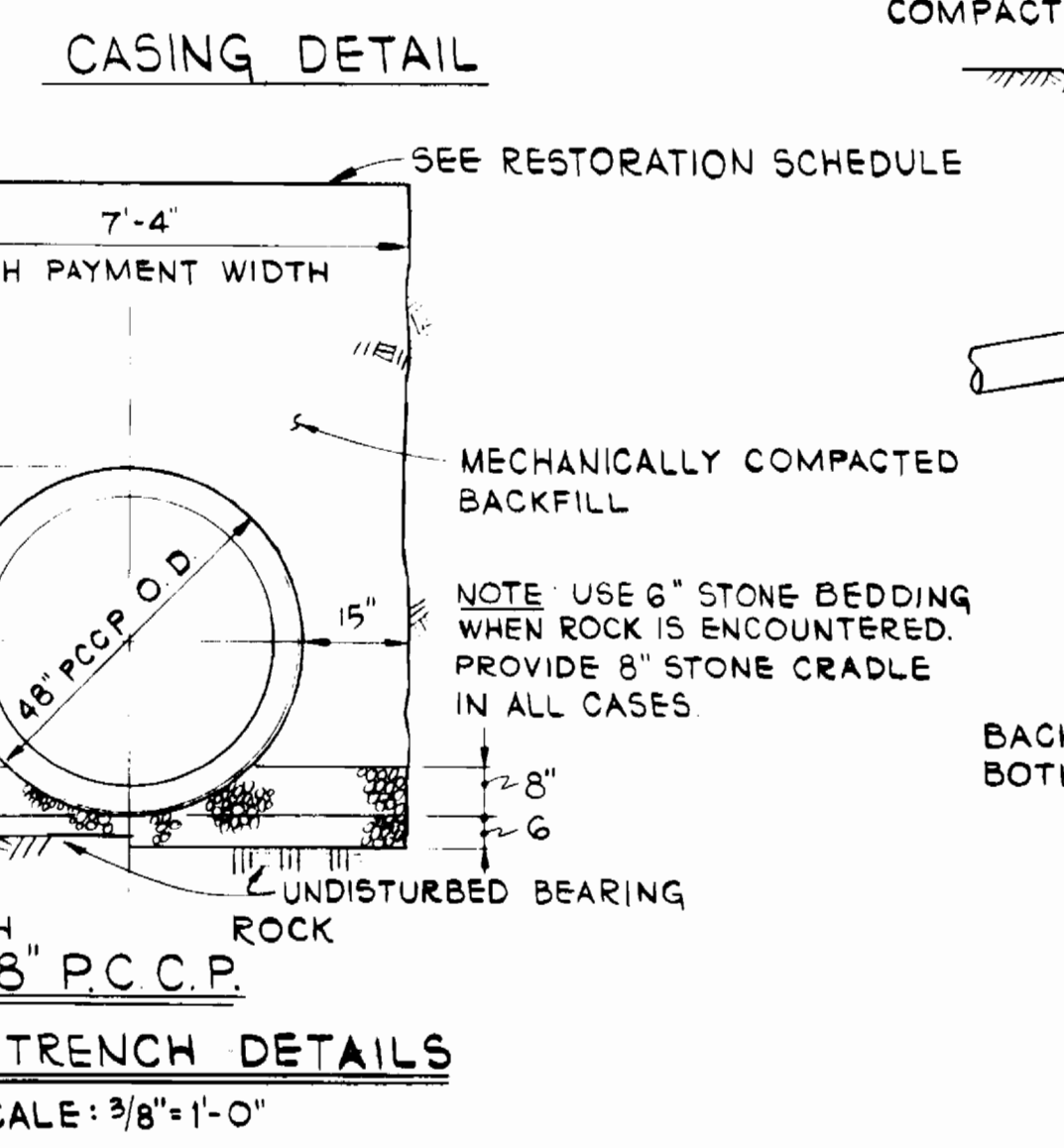
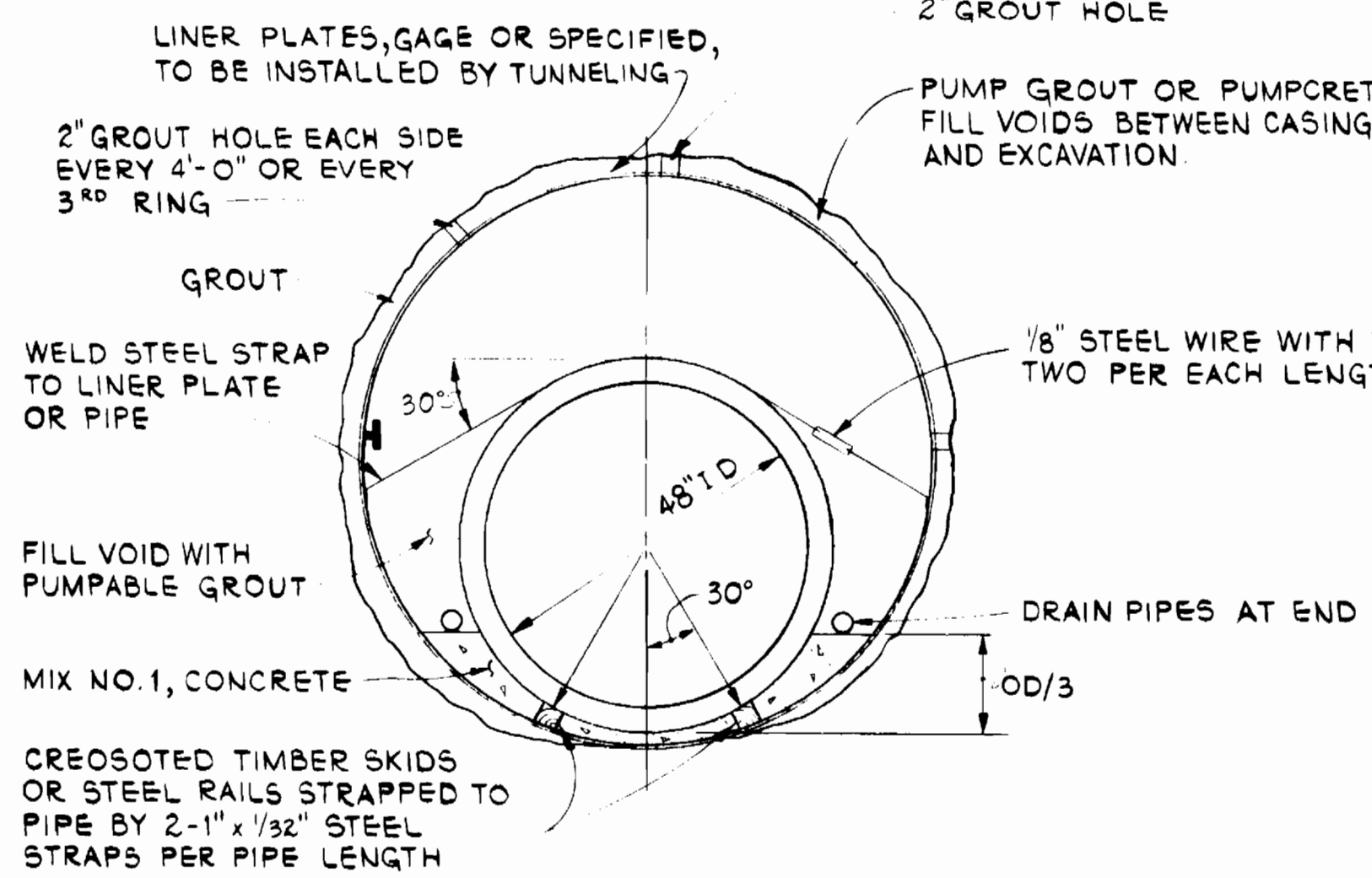
SCALE AS SHOWN
 SHEET 9 OF 14



ELEVATION
 48" PIPE COSTS TO BE INCLUDED IN PROPOSAL ITEM A-3
COMBINATION ACCESS MH & 2" AIR RELEASE VALVE
 SCALE: 3/8"=1'-0"
 STA 60+67



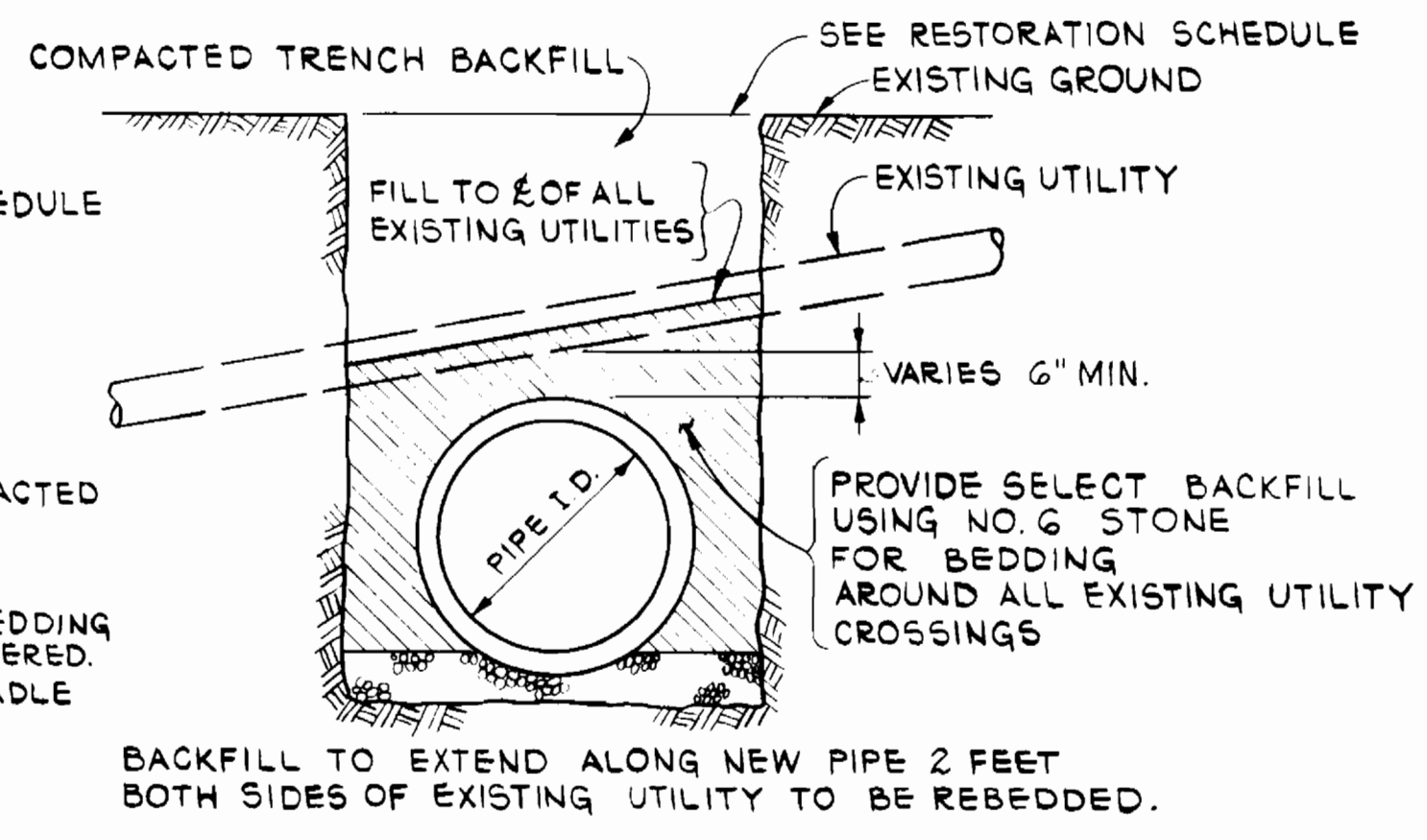
PROPOSAL A-11
 48" PIPE COSTS TO BE INCLUDED IN PROPOSAL ITEM A-3
12" CONNECTION DETAIL STATION 30+48
 SCALE: 3/8"=1'-0"
 FOR LOCATION SEE SHEET 4



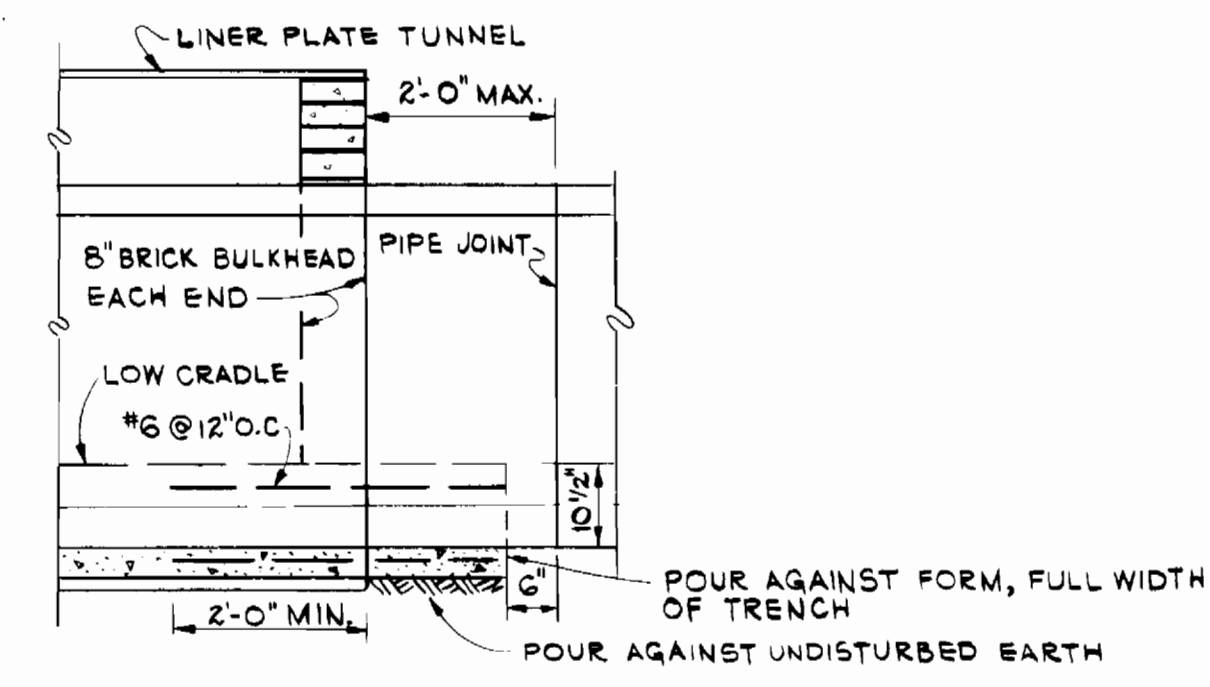
TYPICAL TRENCH DETAILS
 SCALE: 3/8"=1'-0"

- NOTES:**
1. STEEL TUNNEL LINER PLATES TO CONFORM TO LATEST A.A.S.H.T.O. DESIGN SPECIFICATION.
 2. TUNNEL LINER PLATE TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH A.S.T.M. A 123, ALL GALVANIZED SURFACES TO BE TREATED WITH A VINYL WASH PRIMER AND COATED WITH KOPPER'S BITUMASTIC 300M, TNE-METAR 46-413 OR EQUAL
 3. A JOINT IN THE MAIN PIPE TO BE PROVIDED WITHIN 2 FEET OF EACH OUTSIDE END OF CASING.
 4. AN 8" BRICK BULKHEAD TO BE PROVIDED AT EACH END OF CASING. TWO 2" DIAMETER PIPES THROUGH BULKHEAD TO BE PROVIDED AT EACH SIDE OF MAIN PIPE AT LOW END OF CASING FOR DRAINAGE, PRIOR TO FILLING WITH GROUT
 5. ALL STRAPS AND OTHER EXPOSED STEEL TO BE COATED IN NOTE 2 ABOVE.

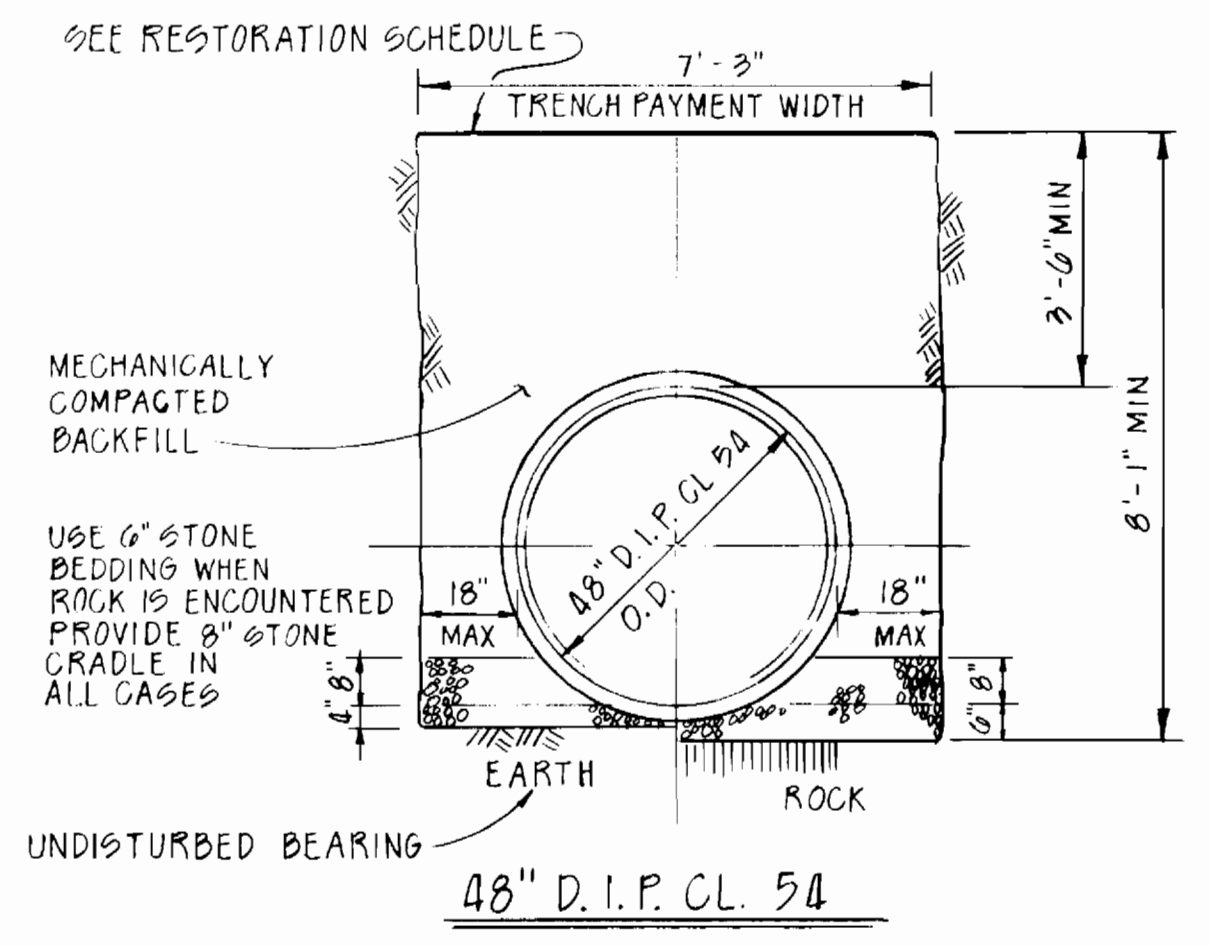
84" TUNNEL LINER - DETAIL
 NOT TO SCALE



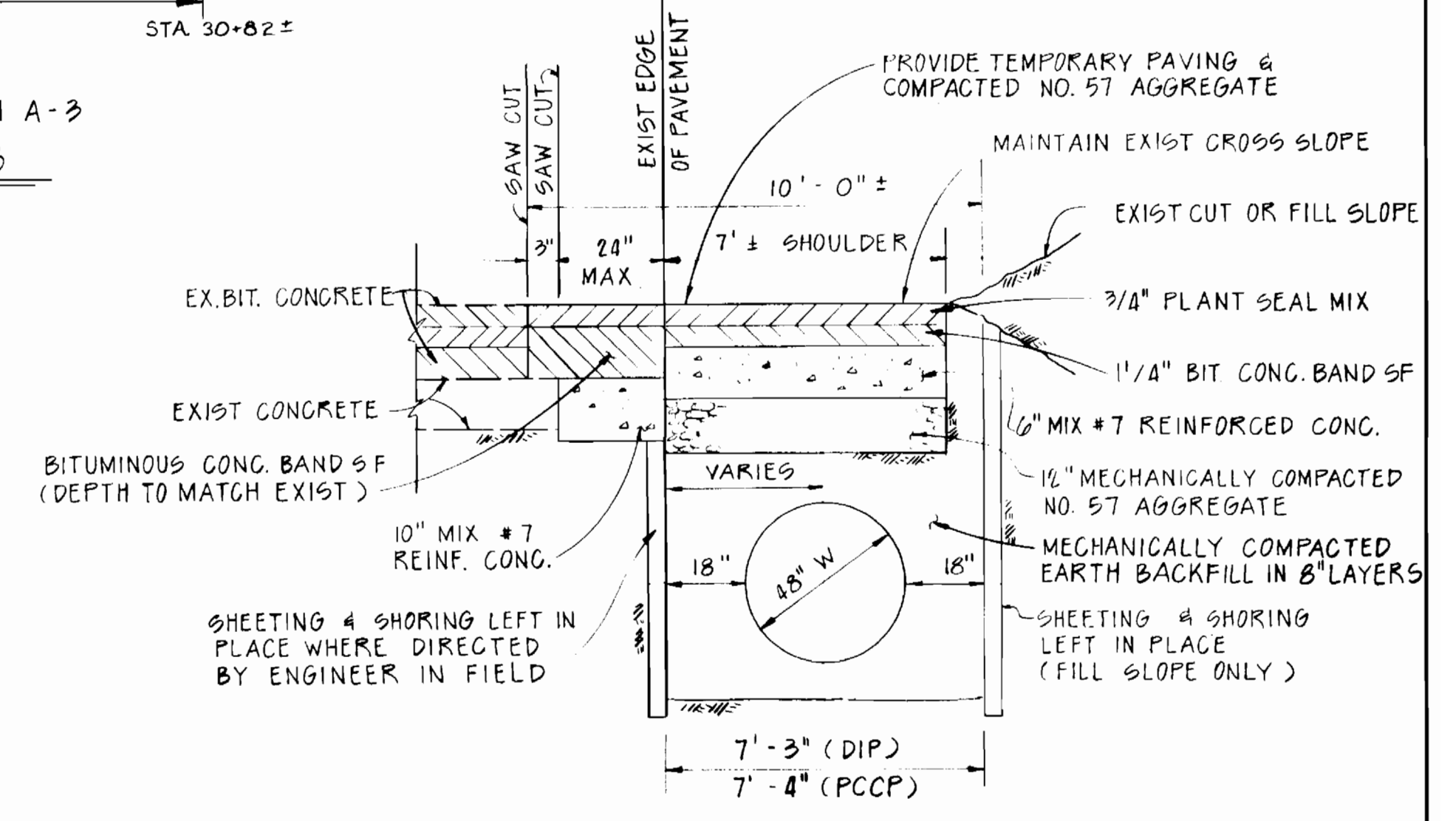
BEDDING FOR EXISTING UTILITY CROSSING
 NOT TO SCALE



CRADLE DETAIL



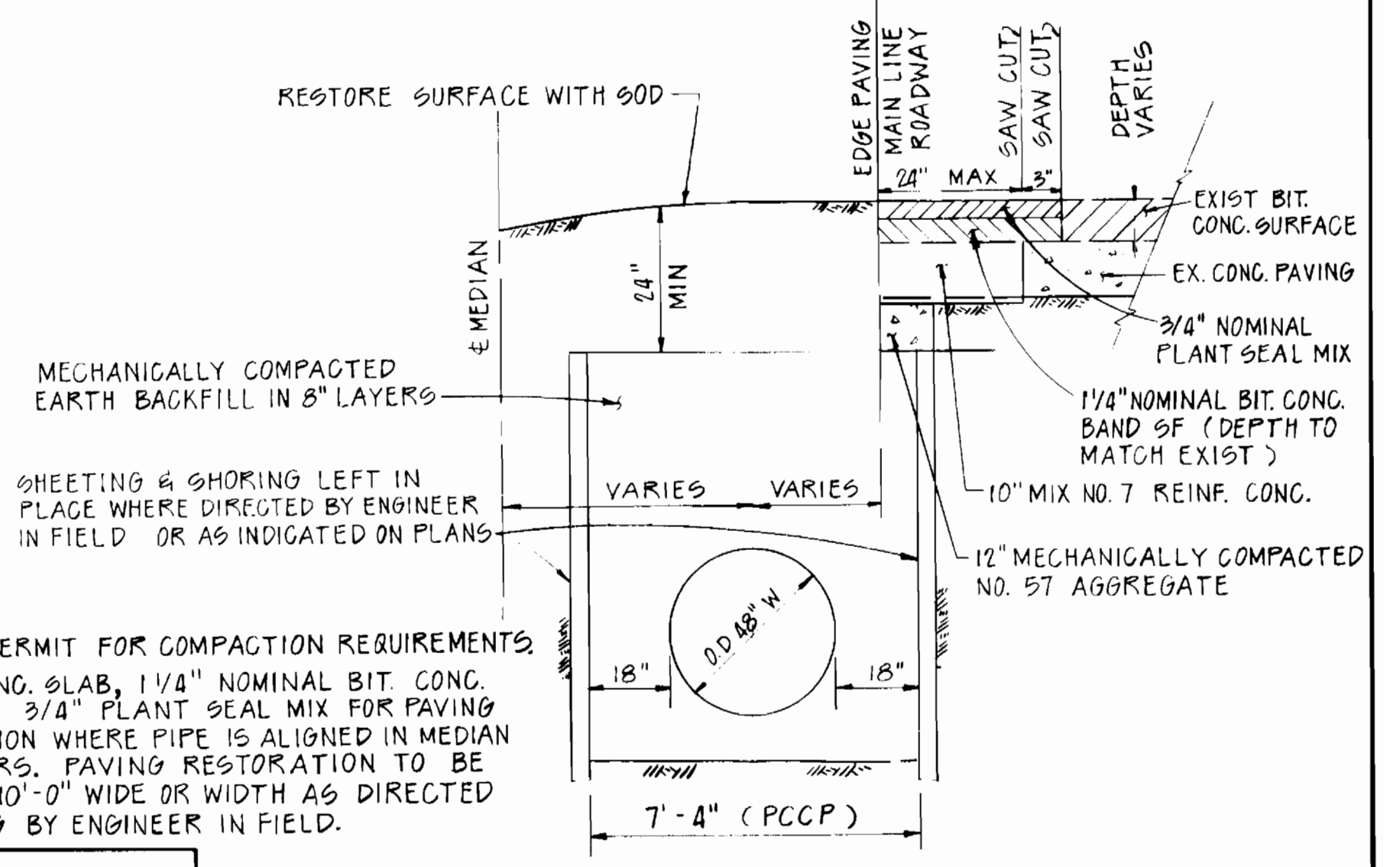
TYPICAL TRENCH DETAIL
 SCALE: 3/8"=1'-0"



TRENCH RESTORATION 48" WATER IN SHOULDER

NOTE: REMOVE & RESTORE EXIST GUARD RAIL AS REQUIRED.

- NOTE:**
- (1) SEE SHA PERMIT FOR COMPACTION REQUIREMENTS
 - (2) USE 10" CONG. SLAB, 1 1/4" NOMINAL BIT. CONG. BAND SF & 3/4" PLANT SEAL MIX FOR PAVING RESTORATION WHERE PIPE IS ALIGNED IN MEDIAN CROSSOVERS. PAVING RESTORATION TO BE MAXIMUM 10'-0" WIDE OR WIDTH AS DIRECTED IN WRITING BY ENGINEER IN FIELD.



TRENCH RESTORATION 48" WATER IN MEDIAN

CWO 45707

CITY OF BALTIMORE		BALTIMORE COUNTY	
DEPT. OF PUBLIC WORKS	BUREAU OF ENGINEERING	DEPARTMENT OF PUBLIC WORKS	
APPROVED: <i>Paul Hudson</i>	APPROVED: <i>Paul Hudson</i>	APPROVED: <i>Paul Hudson</i>	APPROVED: <i>Paul Hudson</i>
DATE: 8/31/88	DATE: 8/31/88	DATE: 8/31/88	DATE: 8/31/88

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James C. Bailey 8-30-88
 DIRECTOR OF PUBLIC WORKS

Green Bailey 8-30-88
 CHIEF, BUREAU OF ENGINEERING

Paul Hudson 8-30-88
 CHIEF, UTILITY DESIGN DIVISION

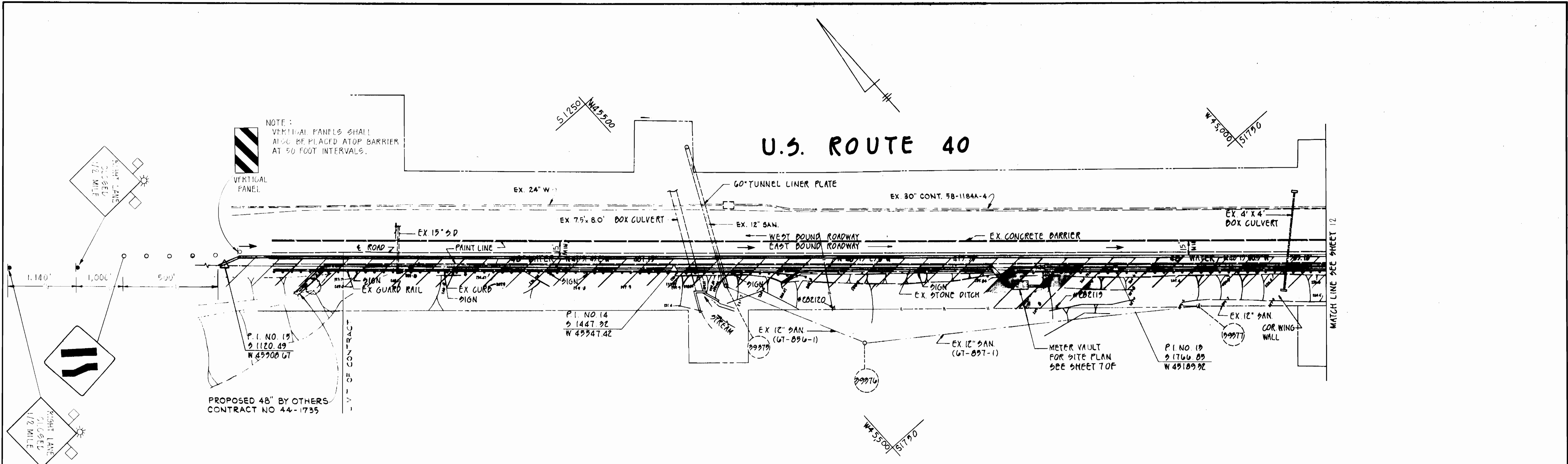
WHITNEY BAILEY COX MAGNANI

CONSULTING ENGINEERS
 1850 YORK ROAD
 TIMONIUM, MD 21093
 301-257-6060

DES: R.J.H.	DRN: R.D.H.	CHK: J.P.	DATE: 10/2/88	BY: NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.
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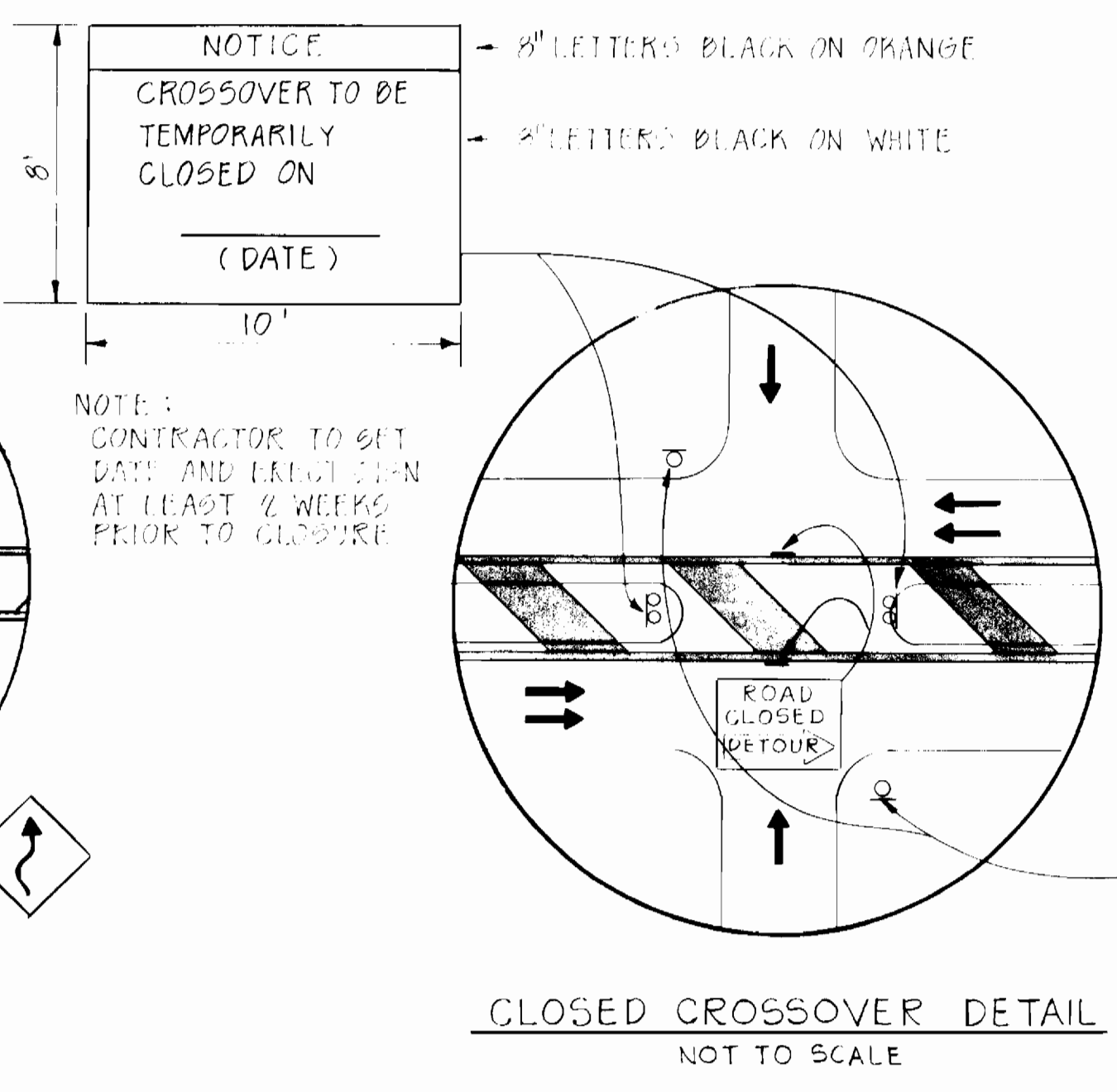
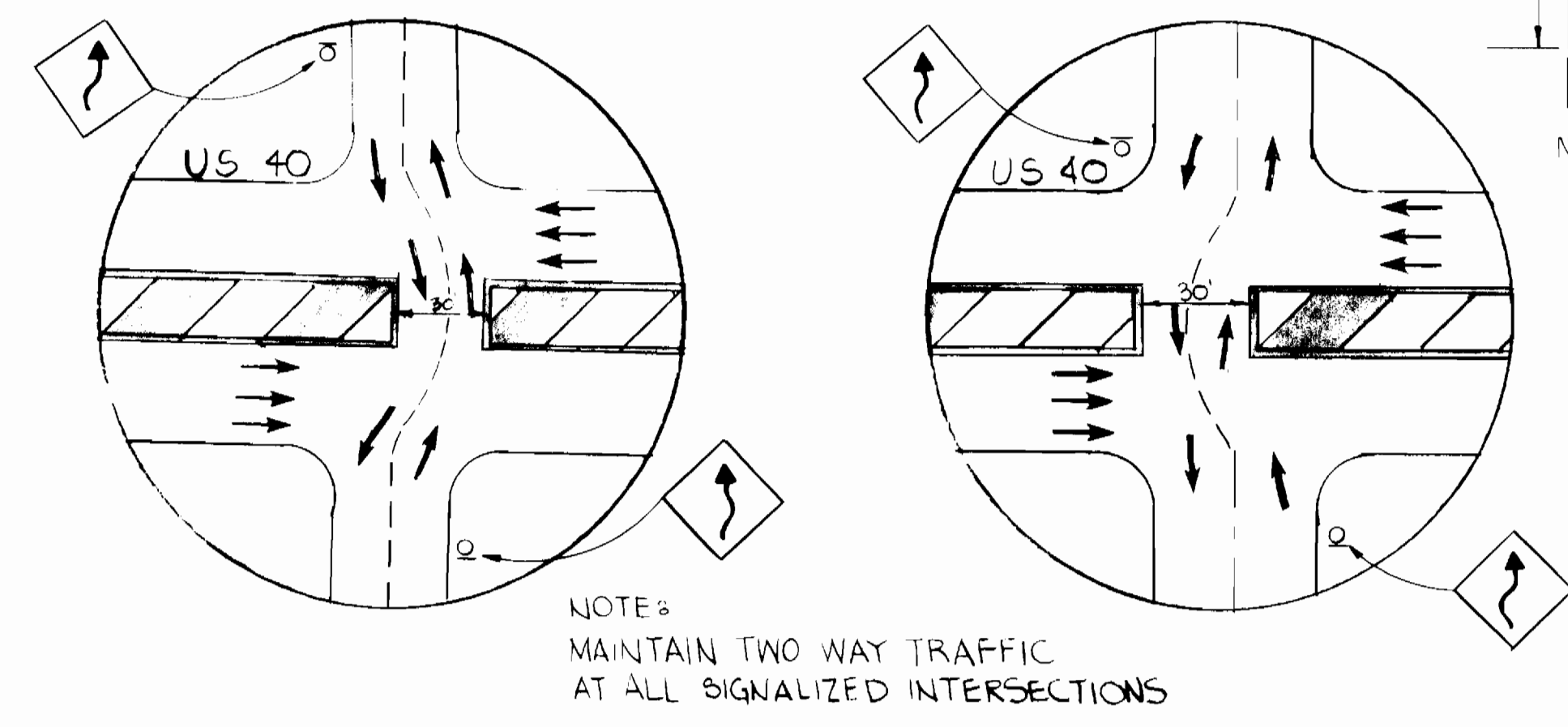
U.S. ROUTE 40 WATER TRANSMISSION MAIN
 CAPITAL PROJECT W-8051
 CONTRACT NO. 44-1672
 ELECTION DISTRICT NO. 1
 BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 10 OF 14



PLAN
SCALE: 1"=90'

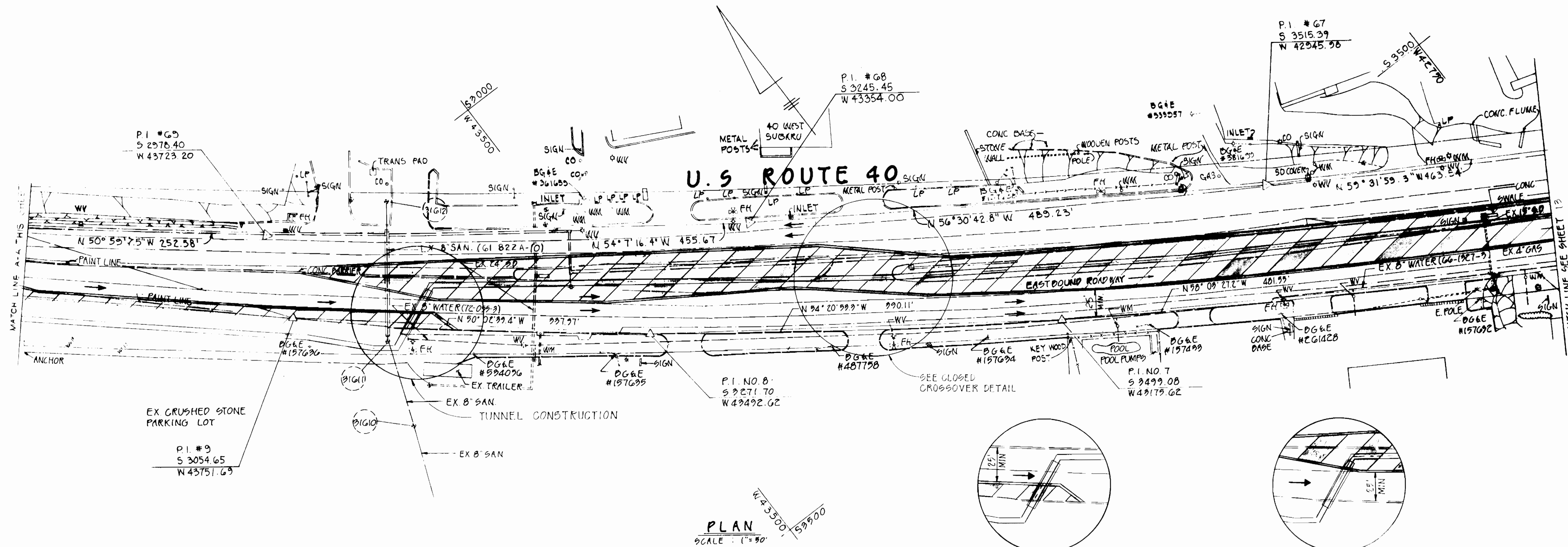
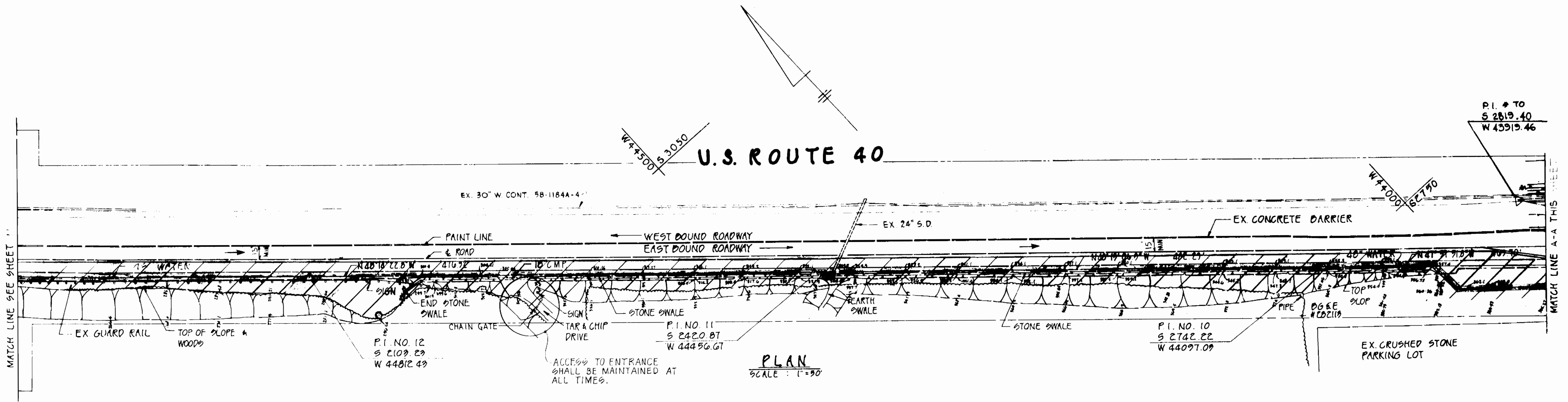
SIGNALIZED INTERSECTION DETAILS
(NOT TO SCALE)



LEGEND

- CONSTRUCTION AREA
- TEMPORARY DOUBLE FACE MEDIAN BARRIER FOR MAINTENANCE OF TRAFFIC
- PLASTIC DRUMS
- TRAFFIC LANE

BALTIMORE COUNTY		CITY OF BALTIMORE	
DEPT. OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR: <i>[Signature]</i> DATE: 9/1/88 CHIEF, BUREAU OF UTILITIES: <i>[Signature]</i> DATE: 8-30-88	BUREAU OF ENGINEERING CHIEF, BUREAU OF ENGINEERING: <i>[Signature]</i> DATE: 8-31-88 CHIEF, UTILITY DESIGN DIVISION: <i>[Signature]</i> DATE: 8-30-88	DEPARTMENT OF PUBLIC WORKS APPROVED: <i>[Signature]</i> CHIEF APPROVED: <i>[Signature]</i> DIRECTOR DATE: 9/1/88	DES: M. W. D. DRN: N. A. CHK: M. W. D. DATE: 10/21/88
WHITNEY BAILEY COX MAGNANI CONSULTING ENGINEERS 1850 YORK ROAD TIMONIUM, MD 21093 301-252-6060		TRAFFIC CONTROL PLAN	
U.S. ROUTE 40 WATER TRANSMISSION MAIN CAPITAL PROJECT W-8051 CONTRACT NO. 44-1672 ELECTION DISTRICT NO. 1 BALTIMORE COUNTY, MARYLAND		SCALE AS SHOWN SHEET 11 OF 14	



PHASE I - BUILD SOUTH SIDE MAINTAIN TWO EASTBOUND LANES

PHASE II - BUILD NORTH SIDE MAINTAIN TWO EASTBOUND LANES

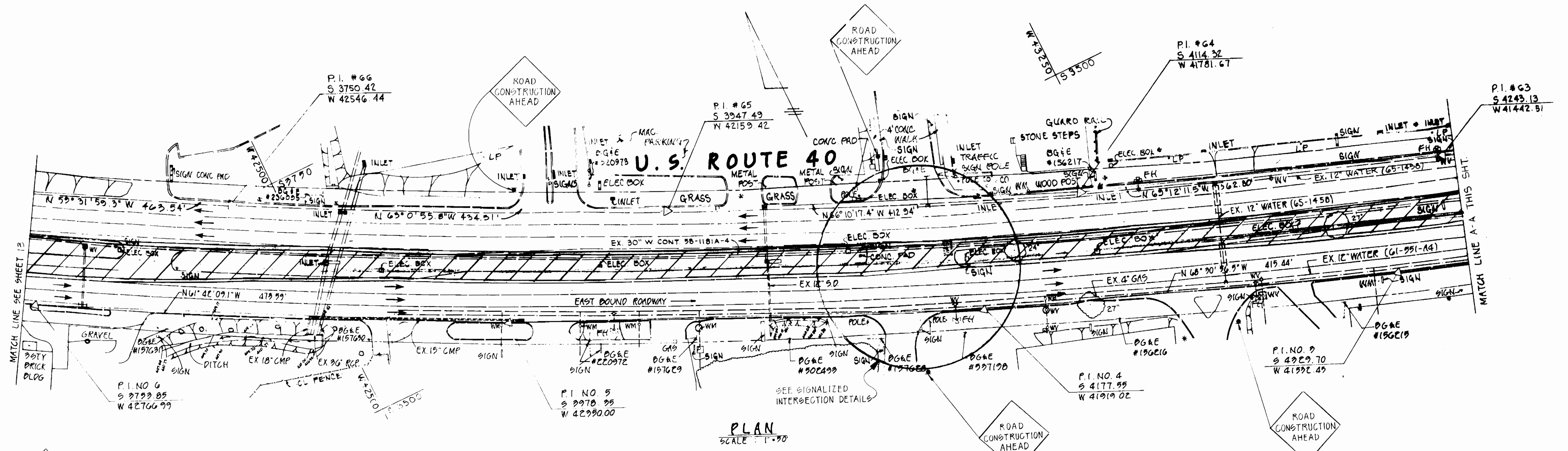
TUNNEL CONSTRUCTION

CITY OF BALTIMORE		BALTIMORE COUNTY	
DEPT. OF PUBLIC WORKS	BUREAU OF ENGINEERING	DEPARTMENT OF PUBLIC WORKS	
Director: <i>James M. ...</i> DATE: <i>9/8/88</i>	Chief: <i>Paul Hudson</i> DATE: <i>8-31-88</i>	Approved: <i>...</i> DATE: <i>9/1/88</i>	Approved: <i>...</i> DATE: <i>9/1/88</i>
Chief, Bureau of Water and Wastewater	Chief, Bureau of Engineering	Chief, Bureau of Engineering	Chief, Utility Design Division

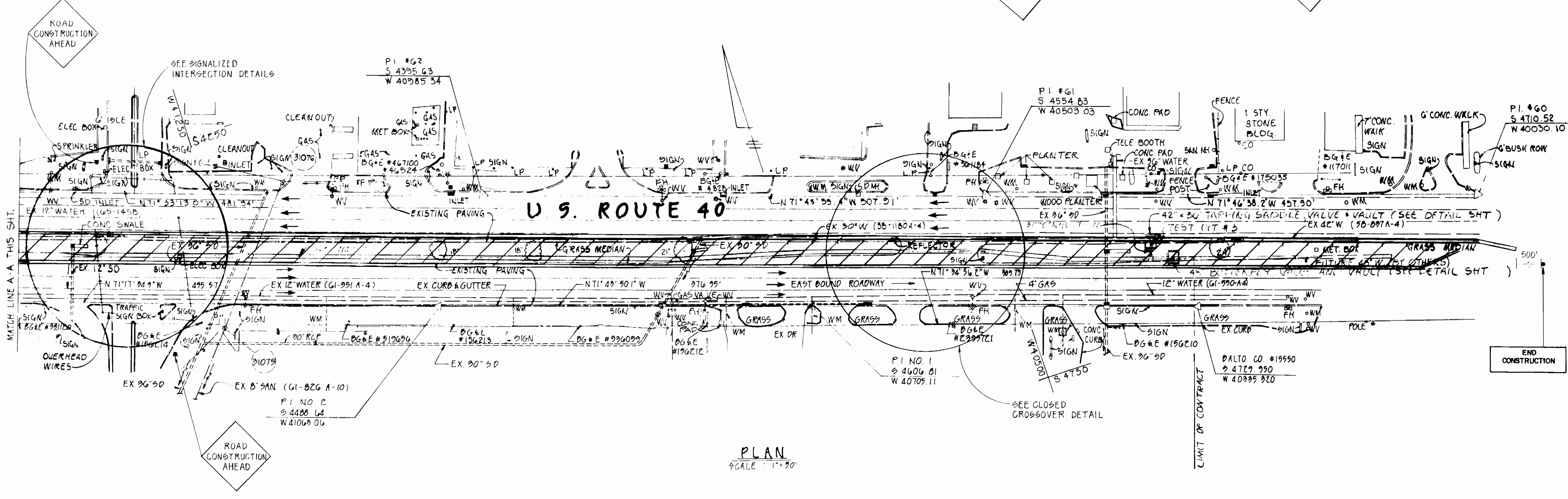
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
Director: <i>James M. ...</i> DATE: <i>8-31-88</i>	Chief, Bureau of Engineering: <i>...</i> DATE: <i>8-31-88</i>
Chief, Bureau of Utilities: <i>...</i> DATE: <i>8-30-88</i>	Chief, Utility Design Division: <i>...</i> DATE: <i>8-30-88</i>

DES: M. W. B.	DRN: N. A.	CHK: M. W. B.	DATE: 10/1/88	BY: NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.
WHITNEY ENGINEERS CONSULTING 1850 YORK ROAD TIMONIUM, MD 21093 301-252-6060		TRAFFIC CONTROL PLAN						

U.S. ROUTE 40 WATER TRANSMISSION MAIN CAPITAL PROJECT W-8051 CONTRACT NO. 44-1672 ELECTION DISTRICT NO. 1 BALTIMORE COUNTY, MARYLAND		SCALE AS SHOWN SHEET 12 OF 14
--	--	----------------------------------



PLAN
SCALE: 1"=90'



PLAN
SCALE: 1"=90'

CITY OF BALTIMORE		BALTIMORE COUNTY	
Director: <i>[Signature]</i> Date: 9/1/88 DEPT. OF PUBLIC WORKS	Chief: <i>[Signature]</i> Date: 9/1/88 BUR. OF WATER AND WASTEWATER	Approved: <i>[Signature]</i> Date: 8-31-88 CHIEF	Approved: <i>[Signature]</i> Date: 9/1/88 DIRECTOR

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
Director: <i>[Signature]</i> Date: 9-30-88 CHIEF, BUREAU OF UTILITIES	Chief: <i>[Signature]</i> Date: 8-20-88 CHIEF, UTILITY DESIGN DIVISION

WB WHITNEY BAILEY COX MAGNANI
 CONSULTING ENGINEERS
 1850 YORK ROAD
 TIMONIUM, MD 21093
 301-252-6060

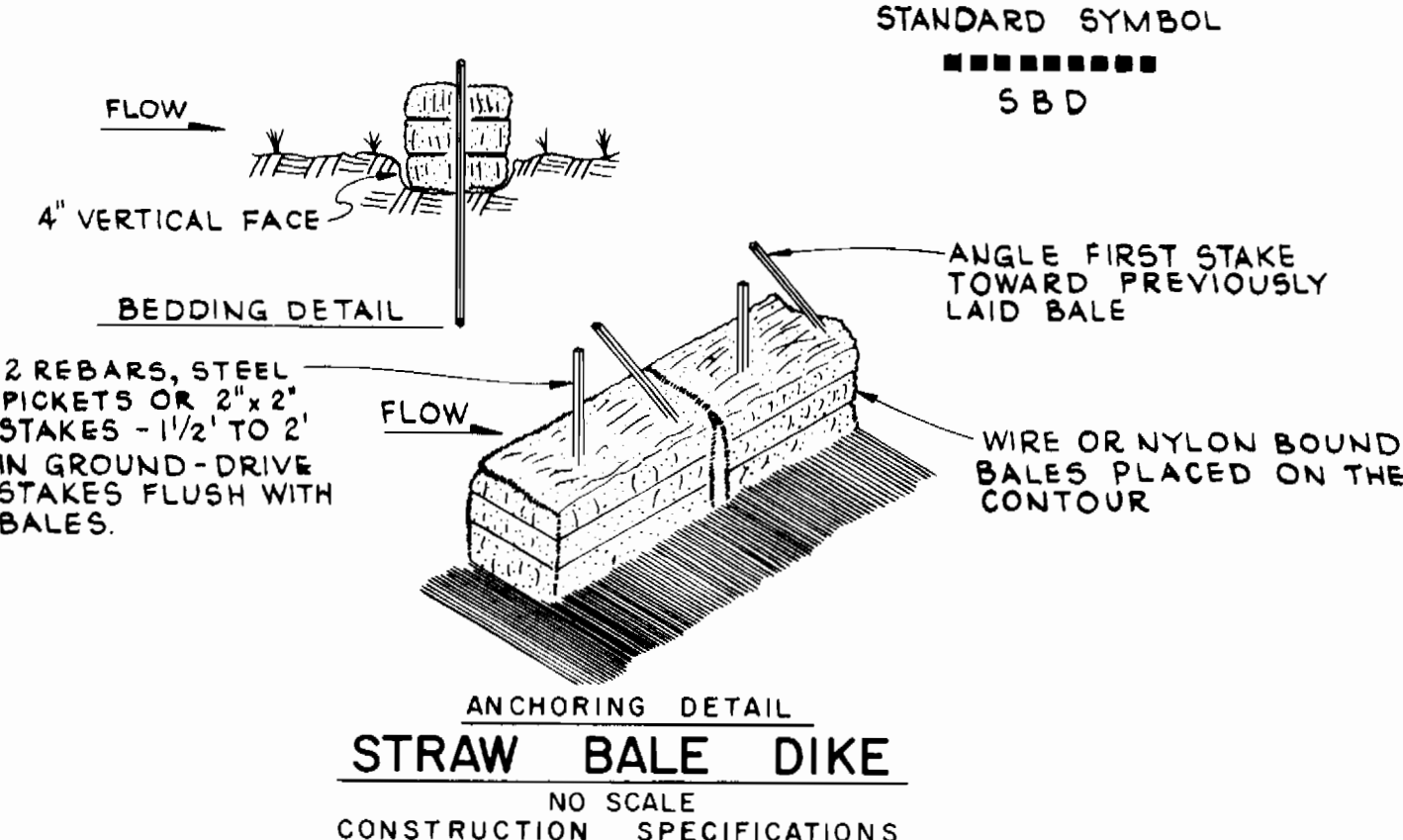
DES: M. W. B.	
DRN: N. A.	
CHK: M. W. B.	
DATE: 10/27/88	
BY: NO.	
REVISION	
DATE	

TRAFFIC CONTROL PLAN
 600' SCALE MAP NO. _____ BLOCK NO. _____

U.S. ROUTE 40 WATER TRANSMISSION MAIN
 CAPITAL PROJECT W-8051
 CONTRACT NO. 44-1672
 ELECTION DISTRICT NO. 1
 BALTIMORE COUNTY, MARYLAND

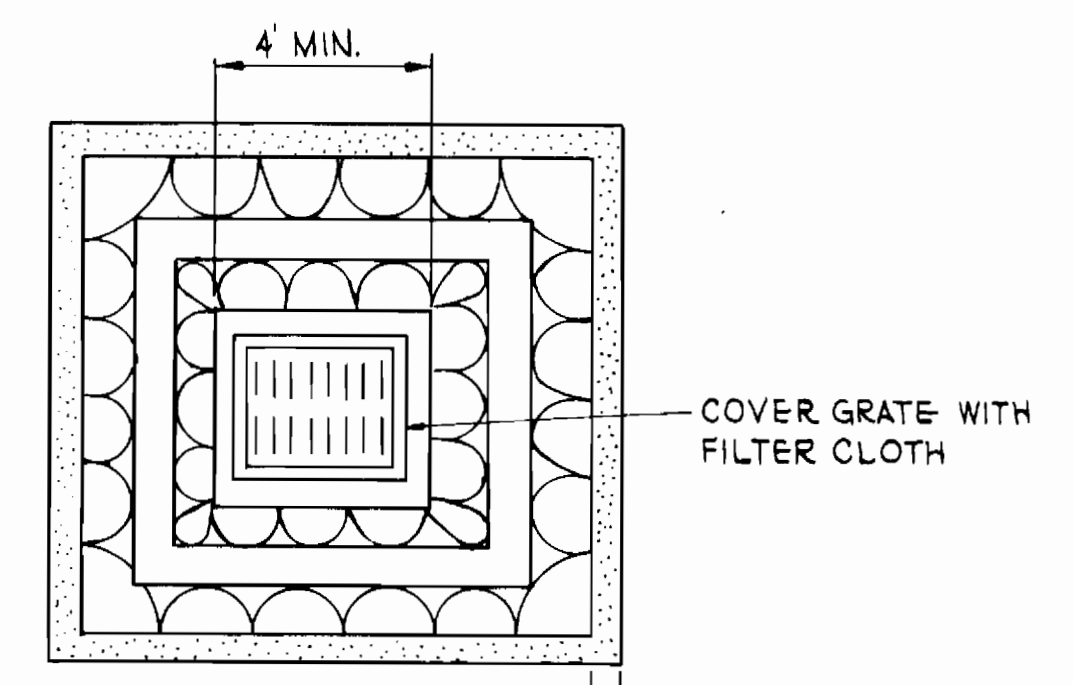
SCALE AS SHOWN
 SHEET 13 OF 14

BRUNING 89150

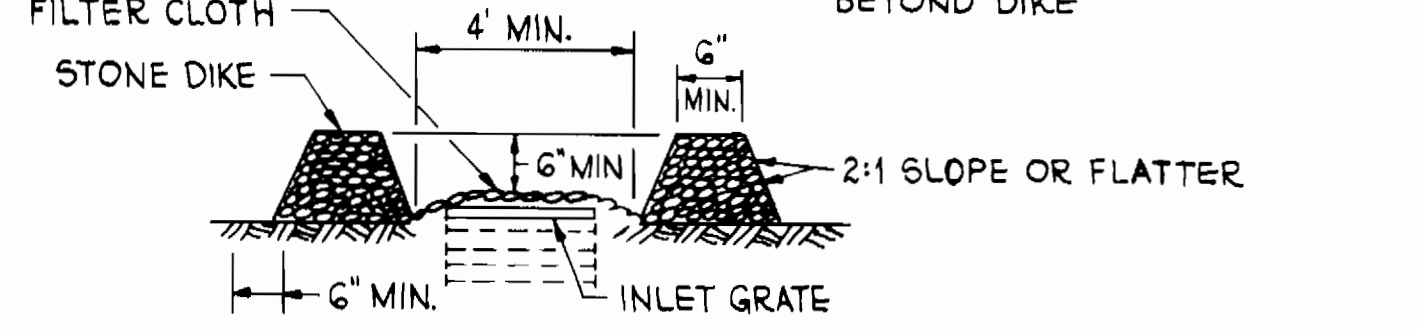


STRAW BALE DIKE
NO SCALE
CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

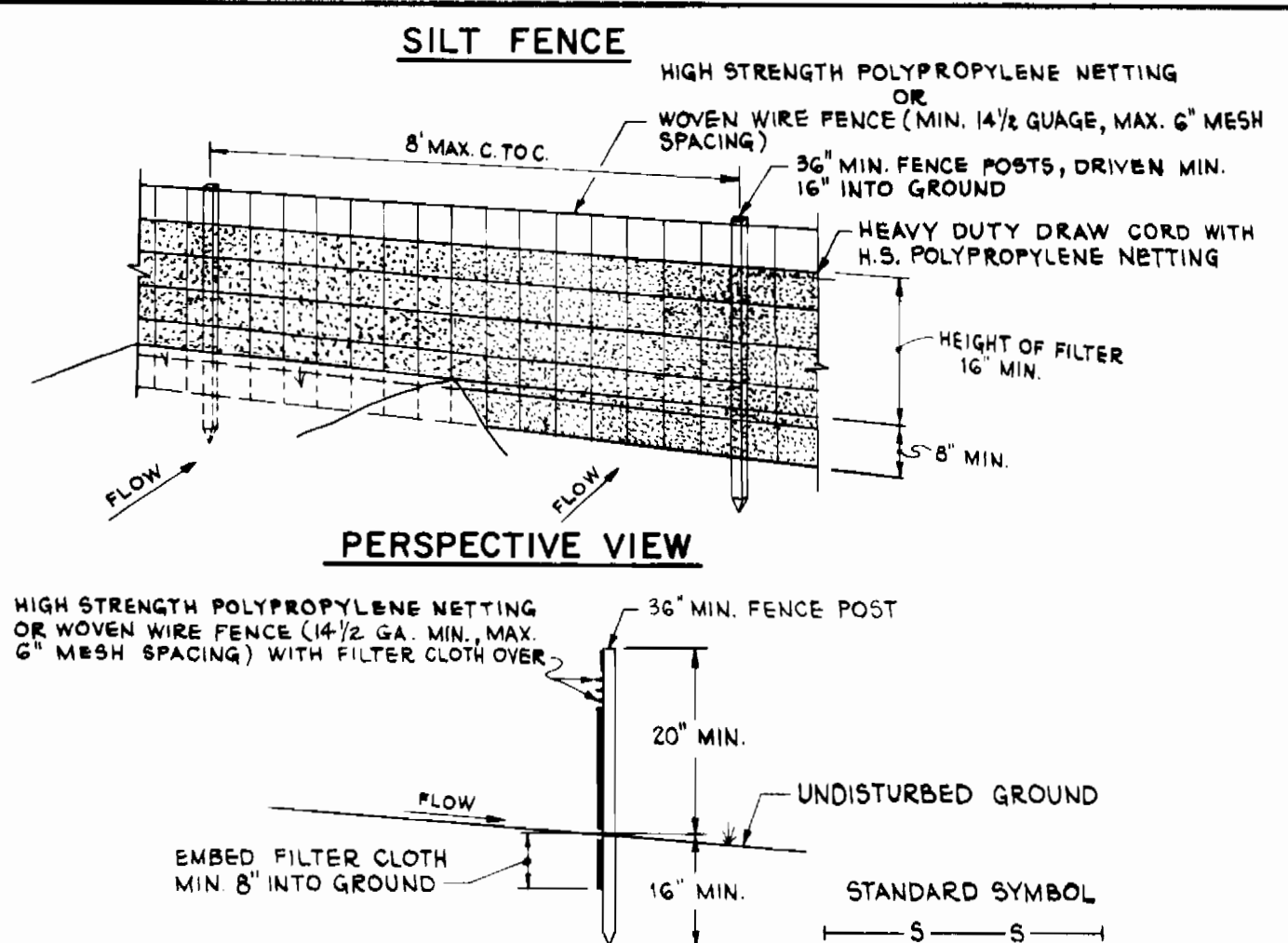


PLAN



CROSS SECTION
INLET PROTECTION DETAIL
NO SCALE
CONSTRUCTION SPECIFICATIONS

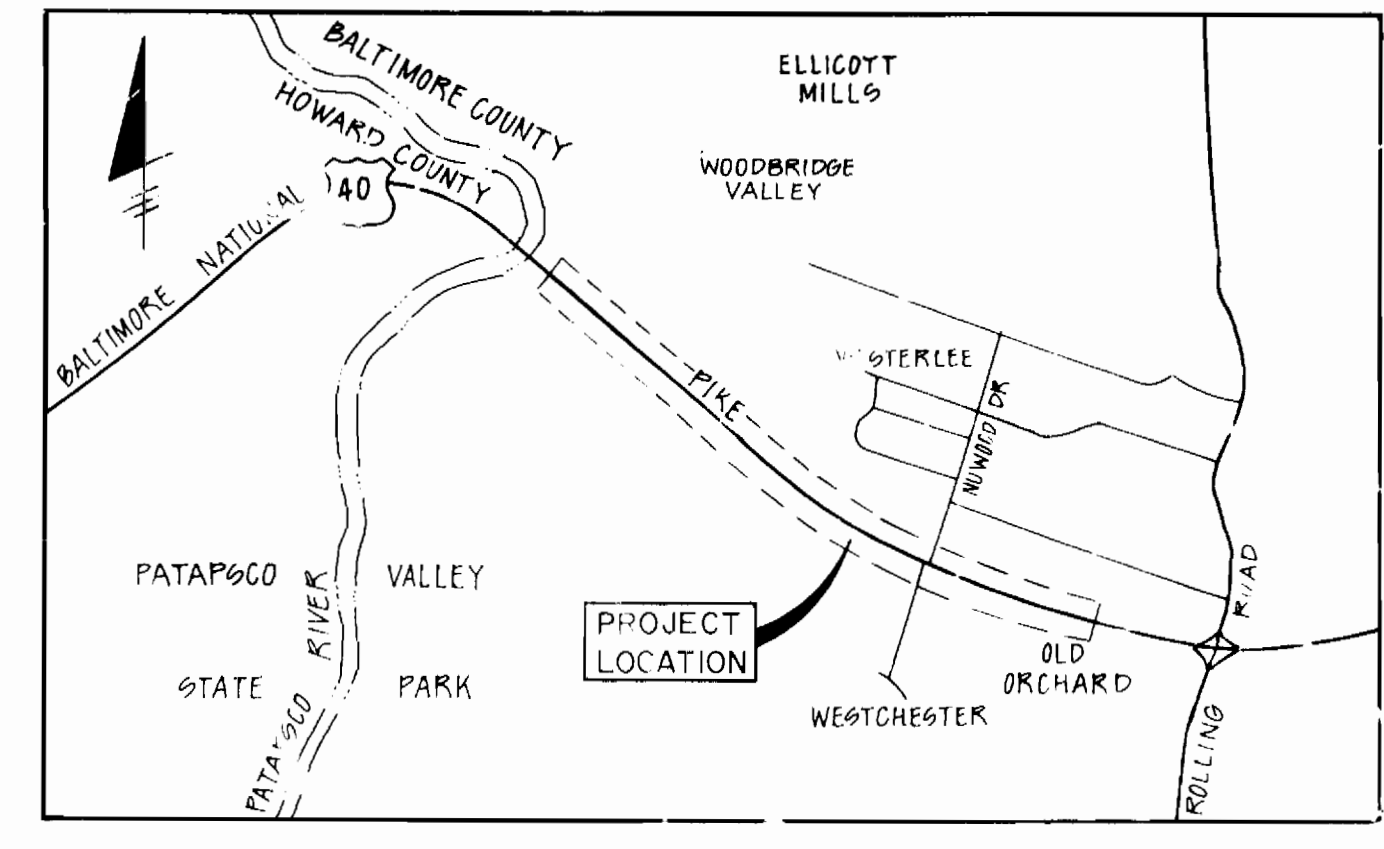
- STONE FOR THE DIKE SHALL BE CRUSHED STONE. GRAVEL MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. THE STONE SHALL MEET AASHTO DESIGNATION M 43 SIZE NO. 57. CRUSHER RUN IS NOT ACCEPTABLE.
- FILTER CLOTH SHALL BE POLY-FILTER X OR APPROVED EQUAL.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.



PERSPECTIVE VIEW

SECTION
NO SCALE

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- HIGH STRENGTH POLYPROPYLENE NETTING OR WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTION 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 1 1/4" x 1 1/4" MIN. (ACTUAL) HARDWOOD
FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING OR HIGH STRENGTH POLYPROPYLENE NETTING
FILTER CLOTH: FILTER X, MIRAF 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.



VICINITY MAP
SCALE 1" = 2000'

SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN THE AREA OF THE PROPOSED WORK PRIOR TO ANY CONSTRUCTION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

SEDIMENT CONTROL GENERAL NOTES

- NOTIFICATION OF MDE ENFORCEMENT DIVISION (301) 974-2601, AT LEAST 5 DAYS PRIOR TO THE START OF WORK.
- PRIOR TO THE START OF WORK, THE CONTRACTOR IS TO OBTAIN MDE APPROVAL OF ANY PROPOSED PLAN CHANGES AND SEQUENCE OF CONSTRUCTION, SPECIFICALLY RELATING TO INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.
- SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL THE AREAS SERVED HAVE ESTABLISHED VEGETATIVE COVER OR STABILIZED, WITH THE PERMISSION OF THE MDE ENFORCEMENT INSPECTOR.
- WHEN PUMPING SEDIMENT-LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
- ALL TEMPORARY STOCKPILES ARE TO BE LOCATED WITHIN AREAS PROTECTED BY SEDIMENT CONTROL MEASURES, AND ARE TO BE TEMPORARILY STABILIZED.
- ALL SEDIMENT CONTROL DIKES, SWALES, BASINS AND FLOW LINES TO BASINS WILL BE TEMPORARILY SEEDED IMMEDIATELY UPON INSTALLATION TO REDUCE THE CONTRIBUTION TO SEDIMENT LOADING.
- DISPOSAL OF EXCESS EARTH MATERIALS ON STATE OR FEDERAL PROPERTY REQUIRES MDE APPROVAL, OTHERWISE MATERIALS ARE TO BE DISPOSED OF AT A LOCATION APPROVED BY THE LOCAL AUTHORITY.
- TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL MEASURES ARE TO BE PROVIDED AS PER THE APPROVED PLAN PRIOR TO GRADING OPERATIONS. LOCATION ADJUSTMENTS ARE TO BE MADE IN THE FIELD AS NECESSARY. THE MINIMUM AREA PRACTICAL SHALL BE DISTURBED FOR THE MINIMUM POSSIBLE TIME.
- IF GRADING IS COMPLETED OUT OF A SEEDING SEASON, GRADED AREAS ARE TO BE TEMPORARILY STABILIZED BY MULCH AND MULCH ANCHORING. MULCH MATERIAL SHALL BE UNWEATHERED, UNCHOPPED SMALL GRAIN STRAW SPREAD AT THE RATE OF 1 1/2 TO 2 TONS PER ACRES MULCH ANCHORING TO BE ACCOMPLISHED BY AN APPROVED METHOD, USE OF A MULCH ANCHORING TOOL IS RECOMMENDED WHERE POSSIBLE.
- PERMANENT SEEDING SPECIFICATIONS: (a) SEED BED PREPARATION (b) LIME, FERTILIZER AND SEED (c) MULCH AND ANCHORING METHOD (d) TIME FRAME TO ACCOMPLISH
- TEMPORARY SEEDING SPECIFICATIONS: (a) SURFACE PREPARATION (b) LIME, FERTILIZER AND SEED (c) MULCH AND ANCHORING METHOD (d) TIME FRAME TO ACCOMPLISH
- PERMANENT SODDING SPECIFICATIONS: (a) SOD TYPE (b) SURFACE PREPARATION (c) LIME AND FERTILIZER AS NECESSARY (d) WATERING AND ROLLING (e) TIME FRAME TO ACCOMPLISH
- IMPLEMENTATION OF THE SEDIMENT CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, OF THE DEPARTMENT OF NATURAL RESOURCES.
- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF THE APPROVAL PLAN, AND ALL OTHER MEASURES NECESSARY TO CONTROL, FILTER, OR PREVENT SEDIMENT FROM LEAVING THE SITE.
- SEDIMENT CONTROL MEASURES FOR THE CONTRACTOR'S OFFICES, STAGING AND STOCKPILE AREAS, IF LOCATED OUTSIDE OF THE DESIGNED SEDIMENT CONTROL MEASURES MUST BE SUBMITTED TO MDE FOR APPROVAL.
- ROADBEDS ARE TO BE STABILIZED BY INSTALLATION OF AGGREGATE SUB-BASE WITHIN 5 DAYS OF REACHING GRADE, OR WATER BREAKS SHALL BE CUT INTO THE ROADBED TO DIRECT DRAINAGE ONTO STABLE AREAS OR INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- SEDIMENT CONTROL FOR UTILITY CONSTRUCTION IN AREAS OUTSIDE OF DESIGNED CONTROLS: (a) EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH. (b) IMMEDIATELY FOLLOWING PIPE INSTALLATION THE TRENCH SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. (c) TEMPORARY SILT FENCE OR STRAW BALE DIKES SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED LONGER THAN ONE WORKING DAY.

CITY OF BALTIMORE		BALTIMORE COUNTY	
DIRECTOR	DATE	APPROVED	DATE
DEPT. OF PUBLIC WORKS		CHIEF	DIRECTOR

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
DIRECTOR OF PUBLIC WORKS	DATE
CHIEF, BUREAU OF UTILITIES	DATE

WHITNEY BAILEY COX MAGNANI	CONSULTING ENGINEERS 1850 YORK ROAD TIMONIUM, MD 21093 301-252-6060
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DES: R.J.H.	
DRN: R.D.H.	
CHK: J.P.	
DATE: 10/11/88	

BY	NO.	REVISION	DATE
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U.S. ROUTE 40 WATER TRANSMISSION MAIN
CAPITAL PROJECT W-8051
CONTRACT NO. 44-1672
ELECTION DISTRICT NO. 1
BALTIMORE COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 14 OF 14