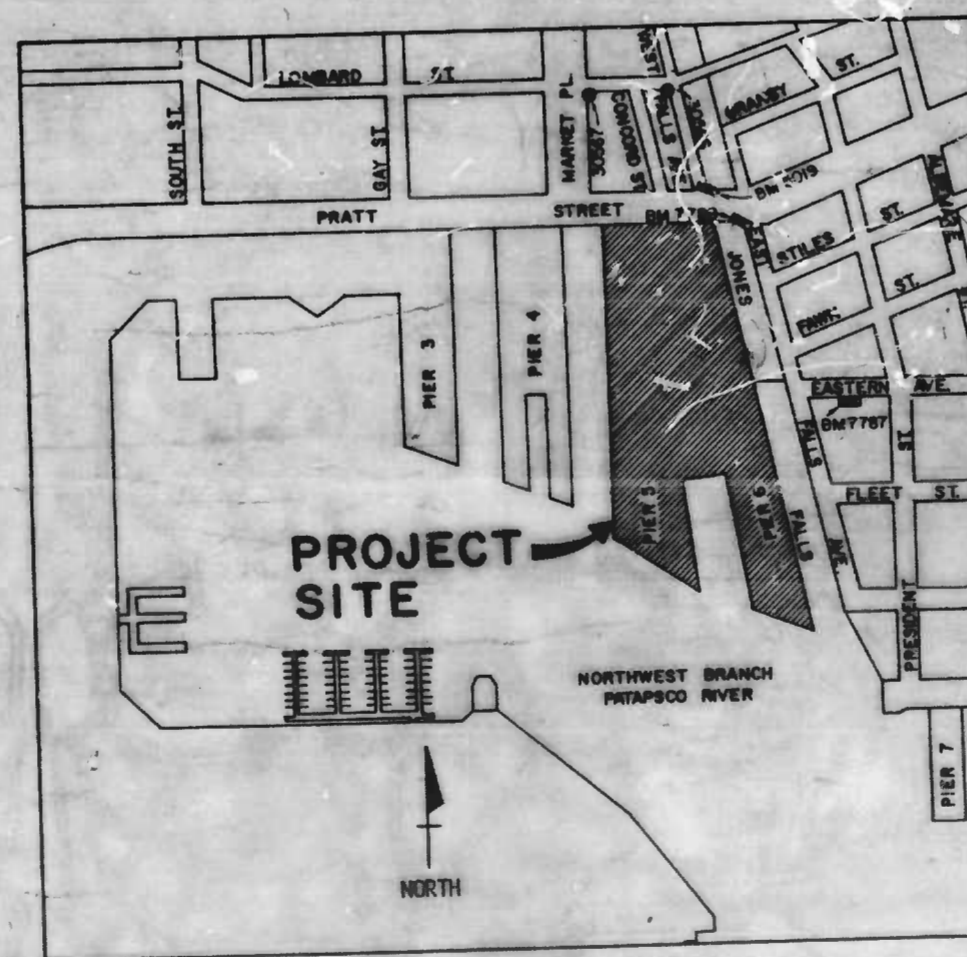


CITY OF BALTIMORE
 DEPARTMENT OF TRANSPORTATION
 HIGHWAY AND BRIDGE ENGINEERING



CITY OF BALTIMORE HIGHWAY AND BRIDGE ENGINEERING CONTRACT NO. 3162
 PIERS 5 AND 6 - UTILITIES



BENCH MARKS

BM 5019 EL. 13.305
 SQUARE (□) CUT ON TOP OF STONE RET. WALL ON W. SIDE JONES FALLS AT N.E. COR. PRATT STREET AND W. FALLS AVENUE.

BM 7767 EL. 9.663
 SQUARE (□) CUT W. END OF BOTTOM STONE STEP, ENTRANCE TO S.S.B. PUMPING STATION, S. SIDE EASTERN AVENUE, 140'± E. OF EAST FALLS AVENUE.

BM 7768 EL. 16.692
 BRONZE U.S.C.G. MARKER IN CONCRETE BLOCK E. END CONCRETE GUARD WALL AT S.W. CORNER PRATT STREET AND EAST FALLS AVE.

CITY TRAVERSE POINTS

30566
 GALVANIZED PLUG ON S.W. CORNER OF LOMBARD STREET AND WEST FALLS AVENUE, 4.3' OFF THE BUILDING.

30567
 SQUARE (□) CUT ON RIM OF M.H. - S.E. COR. LOMBARD STREET AND MARKET PLACE, 13.9' FROM C.C.C. CAMPUS BUILDING.

DEPARTMENT OF TRANSPORTATION

William F. Cooney
 Acting Highway Engineering

Richard K. Chen
 Acting Bridge Engineering

Thomas J. Hanan
 Acting Traffic Engineering

Donald P. Keenan
 Acting Utility Engineering

APPROVED

Chas. G. Anderson
 COMMISSIONER OF TRANSPORTATION

M. Joseph Thomas
 HIGHWAYS AND BRIDGES

J. J. [Signature]
 OPERATIONS

Richard [Signature]
 TRAFFIC AND UTILITIES

WHITMAN, REQUARDT AND ASSOCIATES
 ENGINEERS
 2315 ST PAUL STREET
 BALTIMORE, MARYLAND

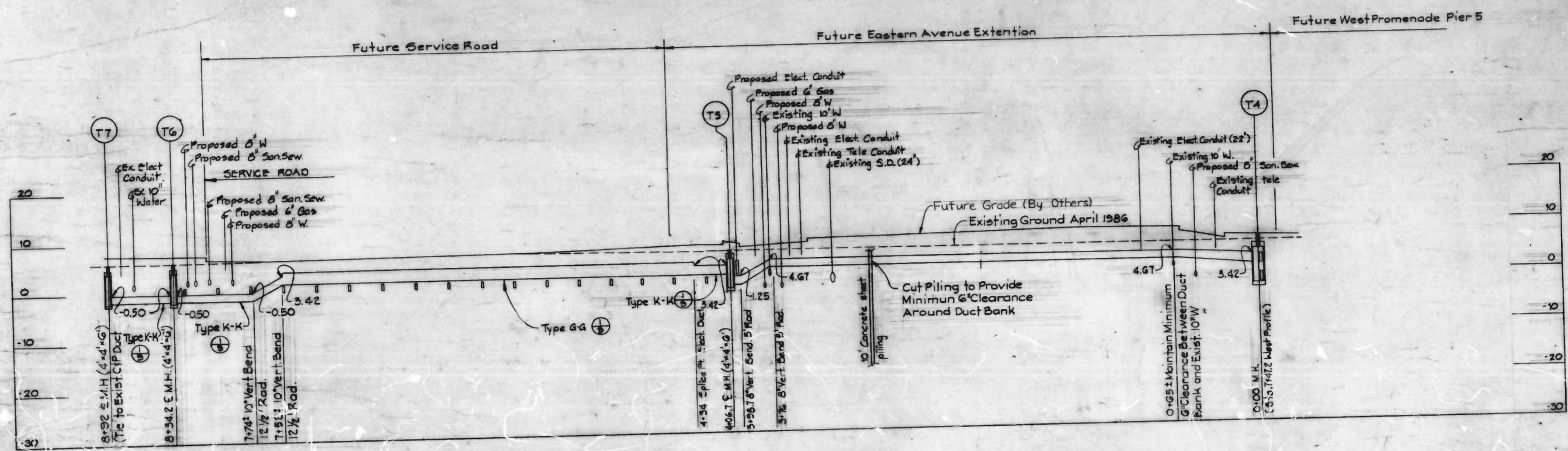
2/17/87
 DATE
Charles [Signature]

LOCATION PLAN
 SCALE IN FEET
 0 200 400 600 800

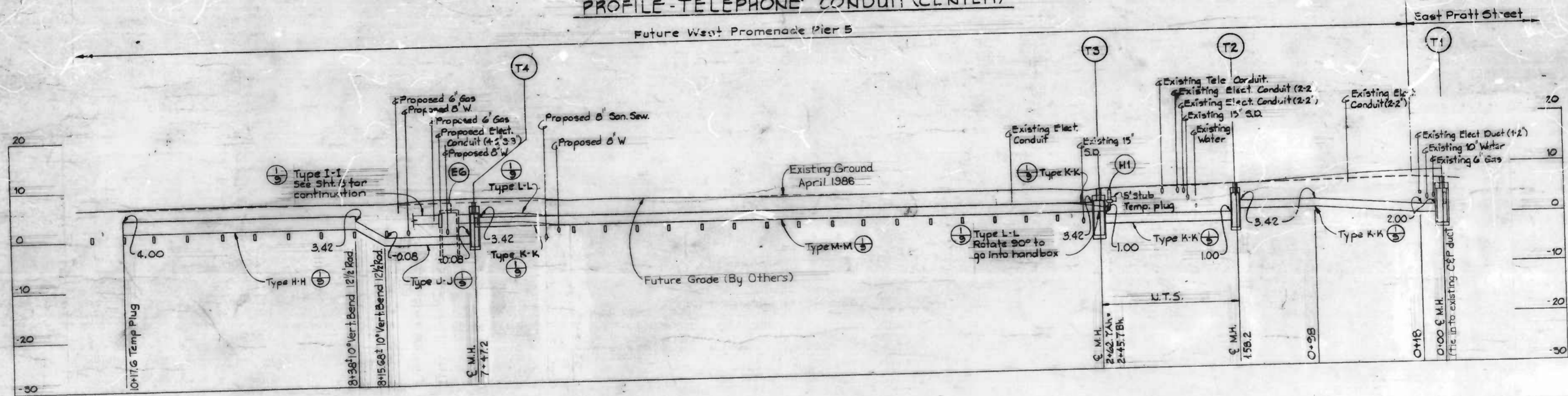
S. OF R. REVIEW	R/W RELEASE	GRADE EST.	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	SEDIMENTATION AND EROSION CONTROL	TRAFFIC	WASTE WATER ENGINEERING	WATER ENGINEERING
BY: [Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
DATE: 1/14/87	1/14/87	1/14/87	2/3/87	1/25/87	1/25/87	1/25/87	1/25/87	1/25/87	1/25/87	1/25/87	1/25/87

FILE REF.

REVISIONS		DATE	BY
NO.	DESCRIPTION		



PROFILE - TELEPHONE CONDUIT (CENTER)



PROFILE - TELEPHONE CONDUIT (WEST)

DRAWN BY
EXAMINED BY

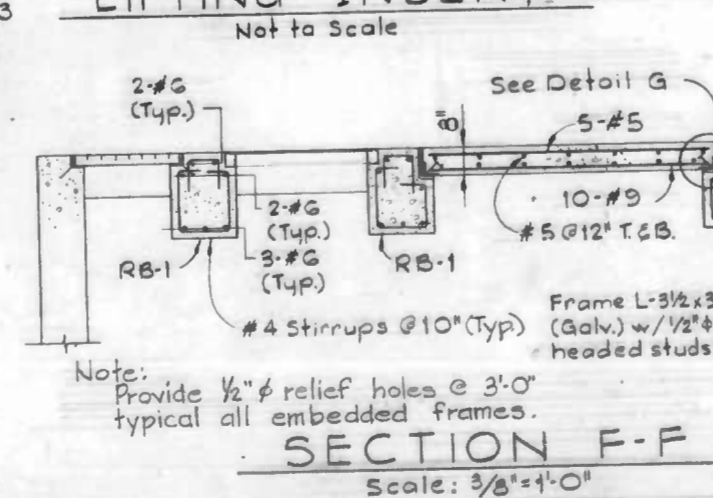
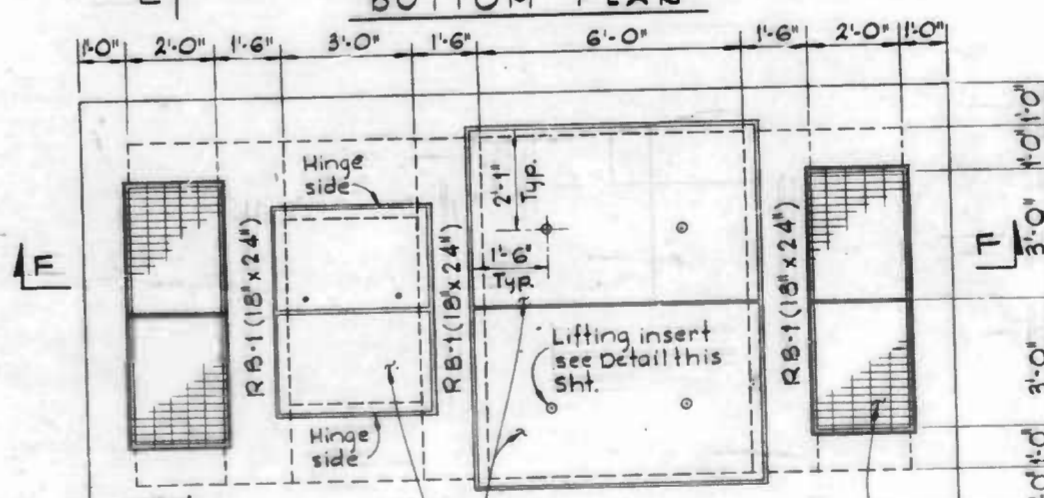
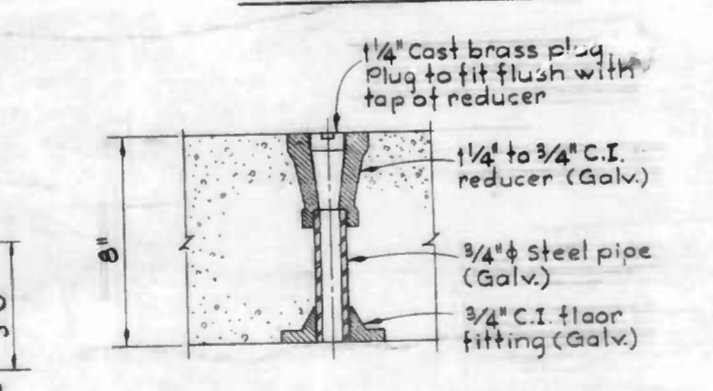
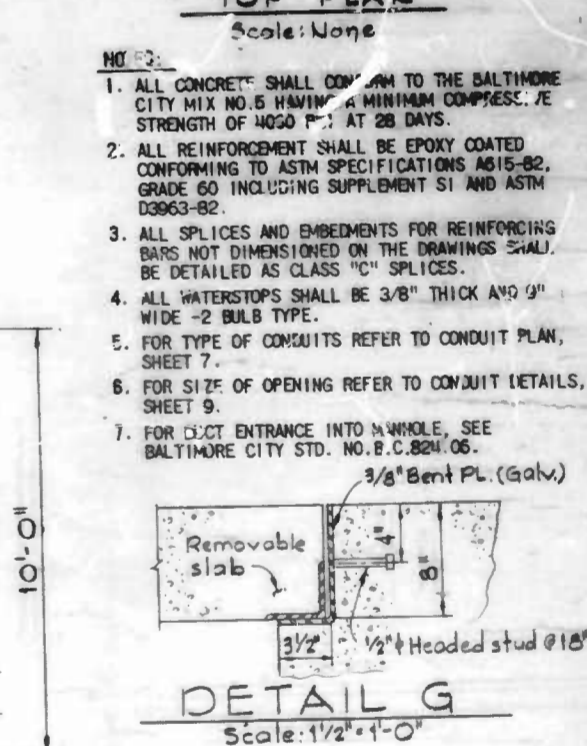
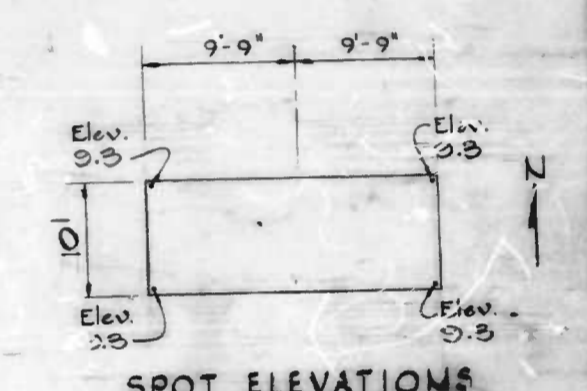
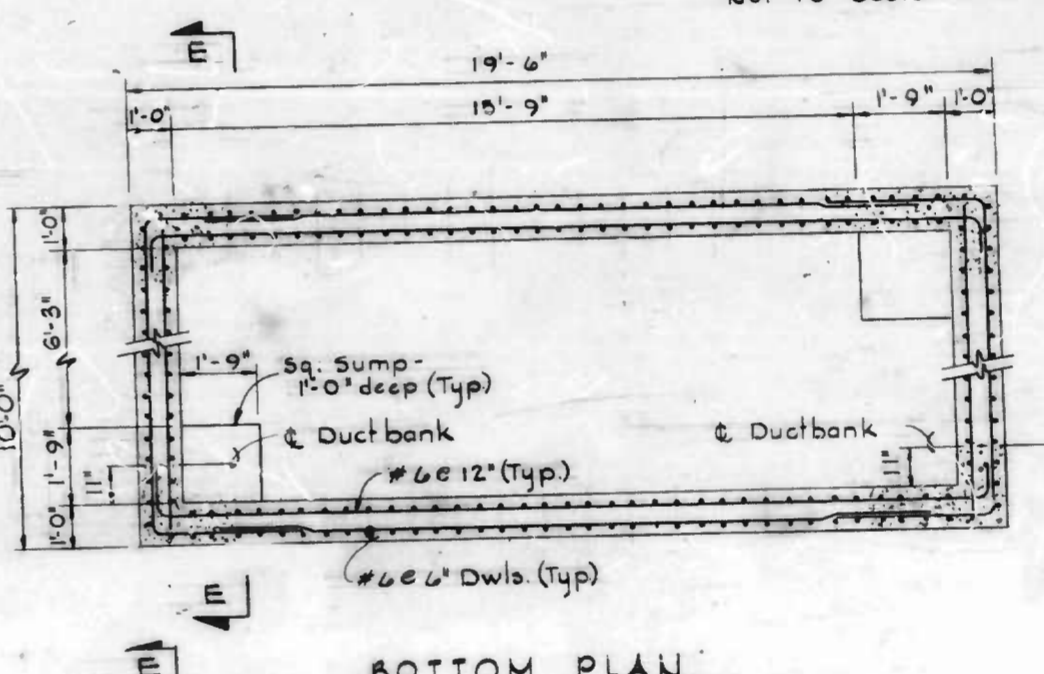
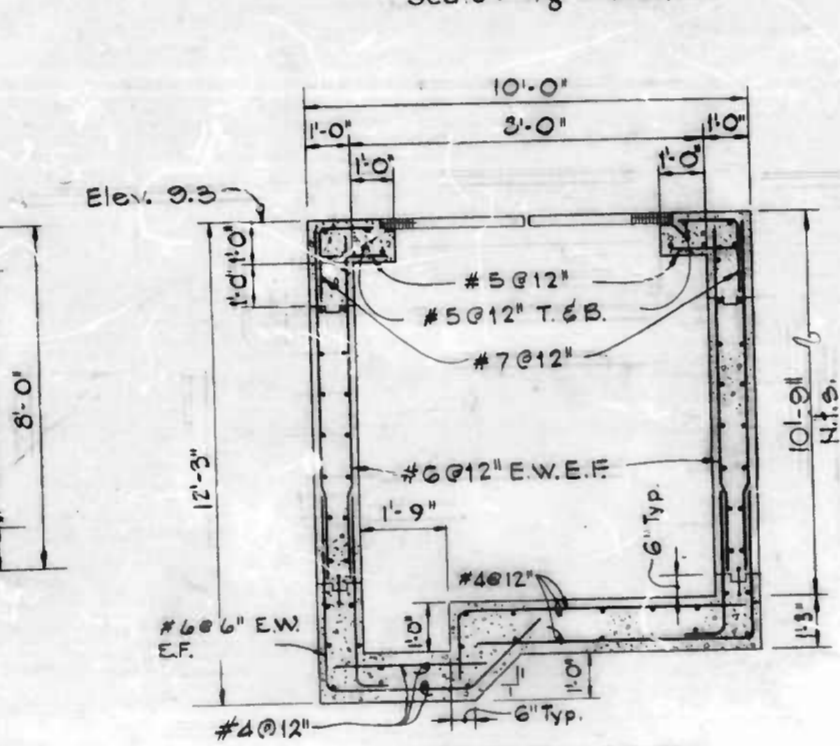
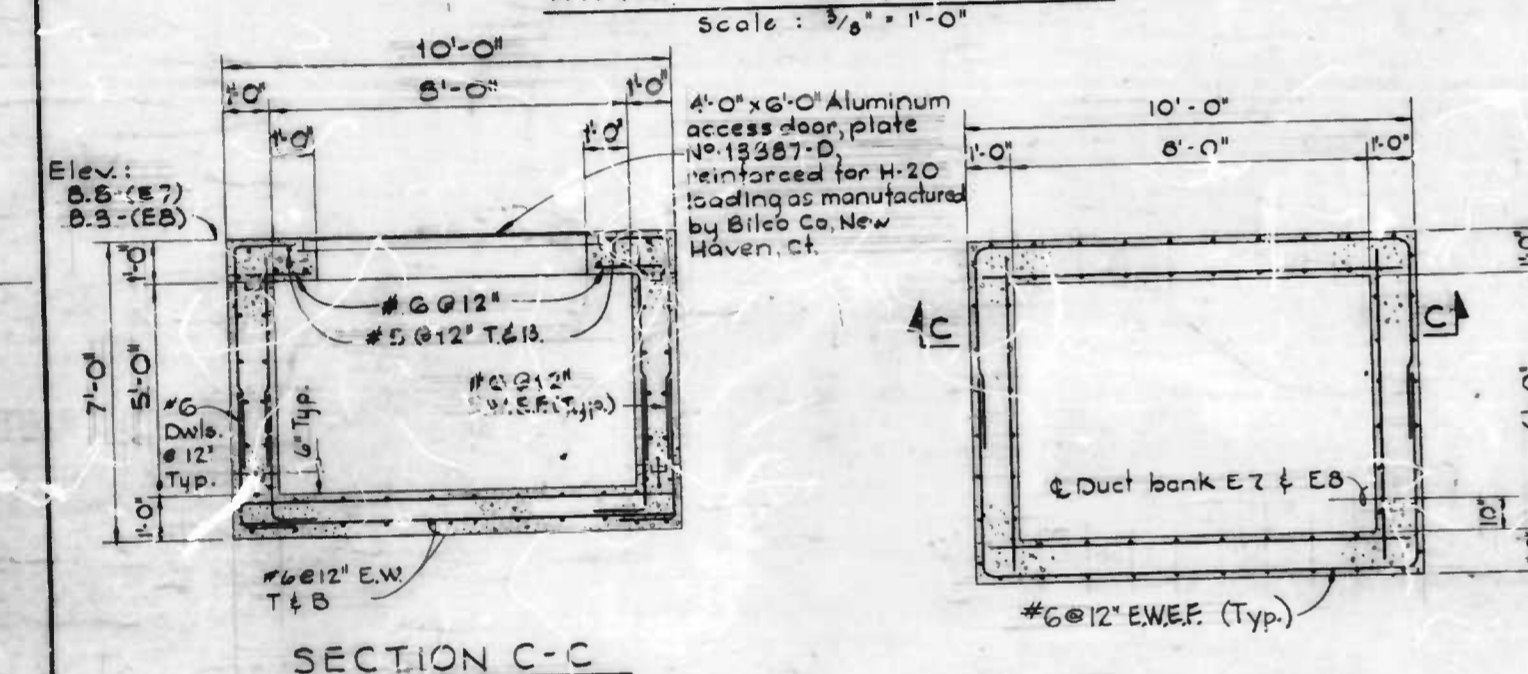
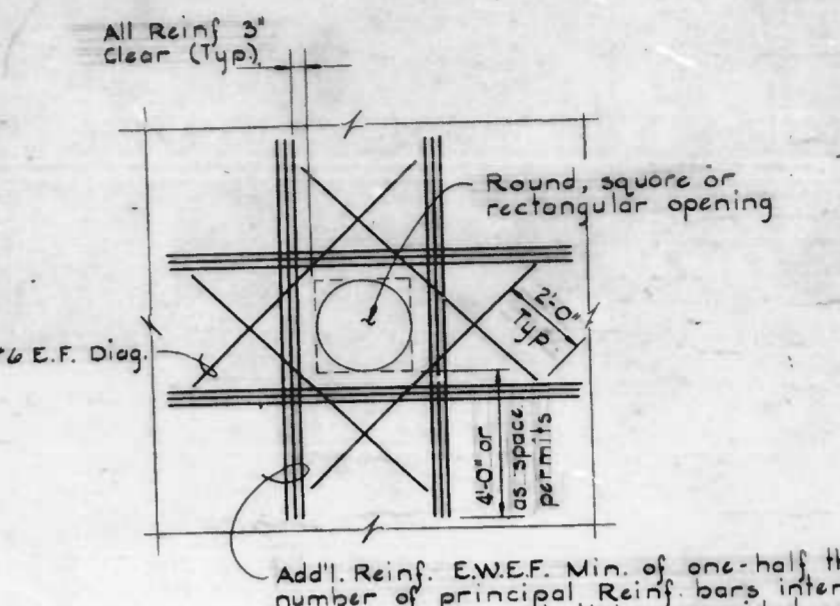
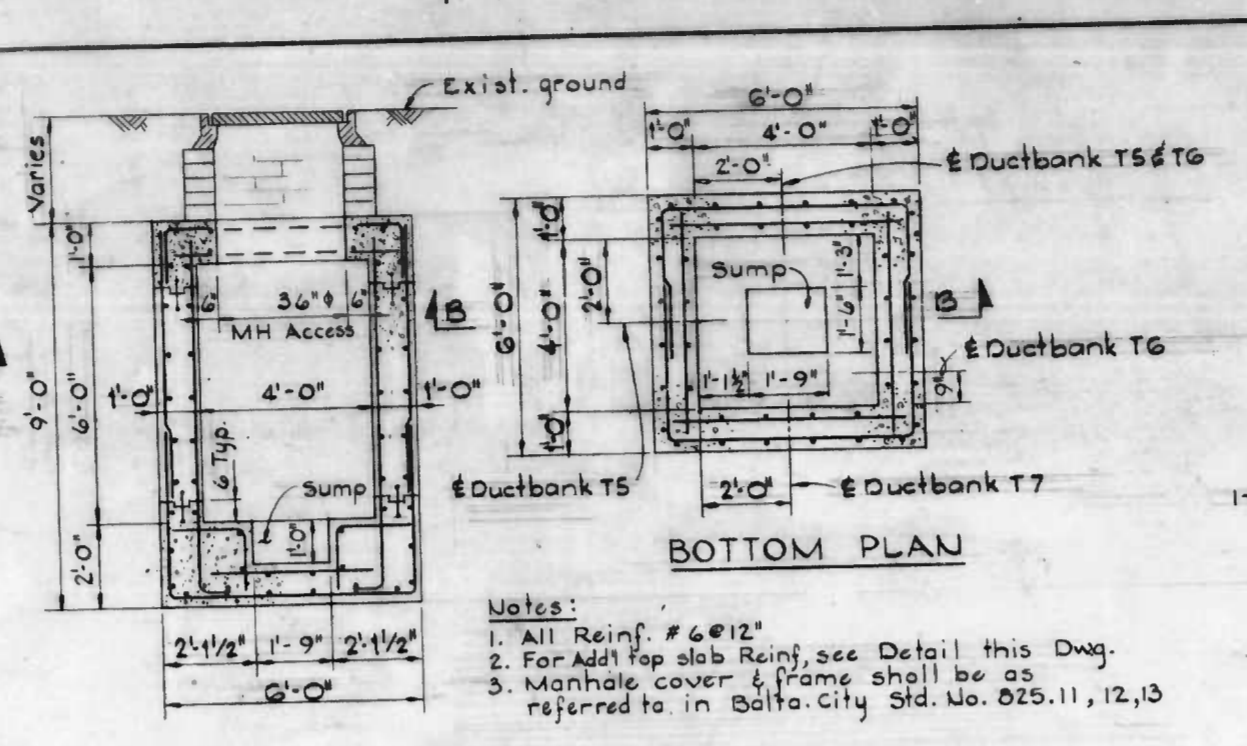
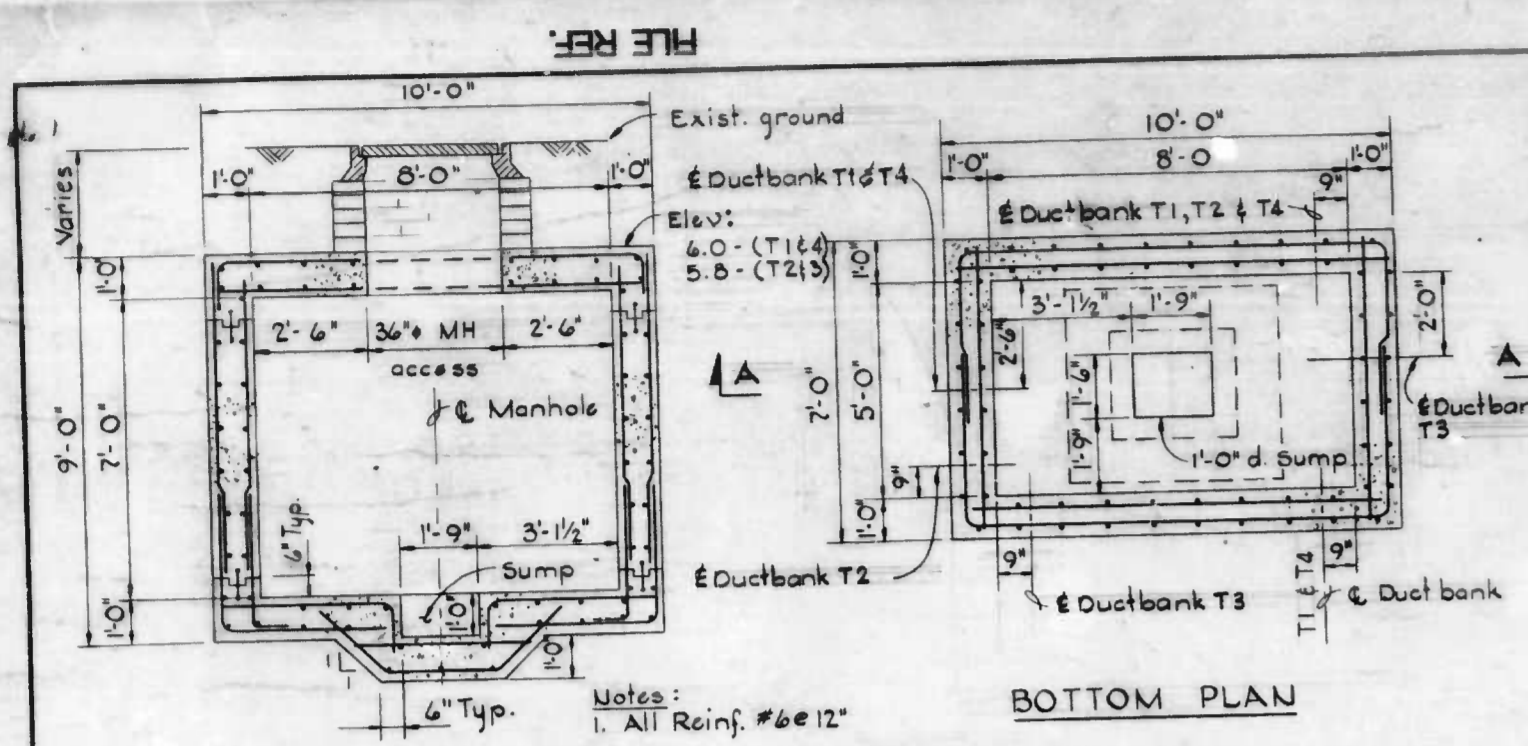
W.O. 80299

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO 3162
PIERS 5&6 UTILITIES
**BALTIMORE CITY
CONDUIT PROFILES**
HORIZ. 1" = 40'
SCALE VERT. 1" = 10'
DATE JAN. 19, 1987
DRAWING SHEET 10 OF 13
10-15-87

FILE REF.

NO.	REVISIONS DESCRIPTION	DATE	BY



CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 5&6 UTILITIES

**BALTIMORE CITY
CONDUIT MANHOLE DETAILS**

SCALE AS SHOWN
DATE JAN 19, 1987
DRAWING SHEET 11 OF 12
FILE REF. 10-19-87

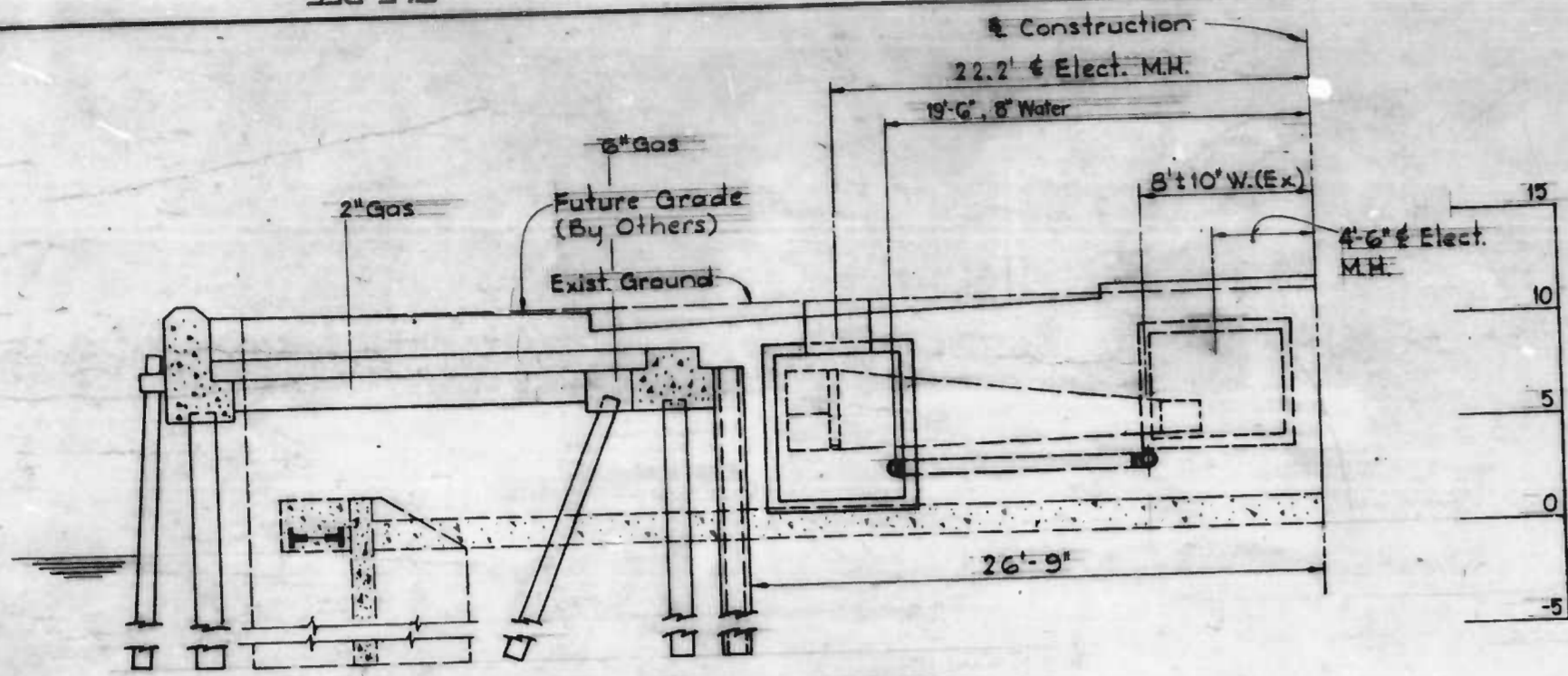
WHITMAN, REQUARDT AND ASSOCIATES
BALTIMORE ENGINEERS MARYLAND

36" x 52" Alum. access door reinforced for H-20 loading as manufactured by Bilco Co.
6" x 6" Lg. x 4" x 2 3/8" W. x 8" Thk. Removable Conc. slabs w/ frame L. 4' x 4' x 3/8" (Galv.) w/ 1/2" x 4" Lg. headed studs @ 18" x 6"
3' x 1/4" Tri-lock steel grating (Galv.) for H-20 loading as manufactured by F.H. Klaunberg & Son Inc. Balto., Md.

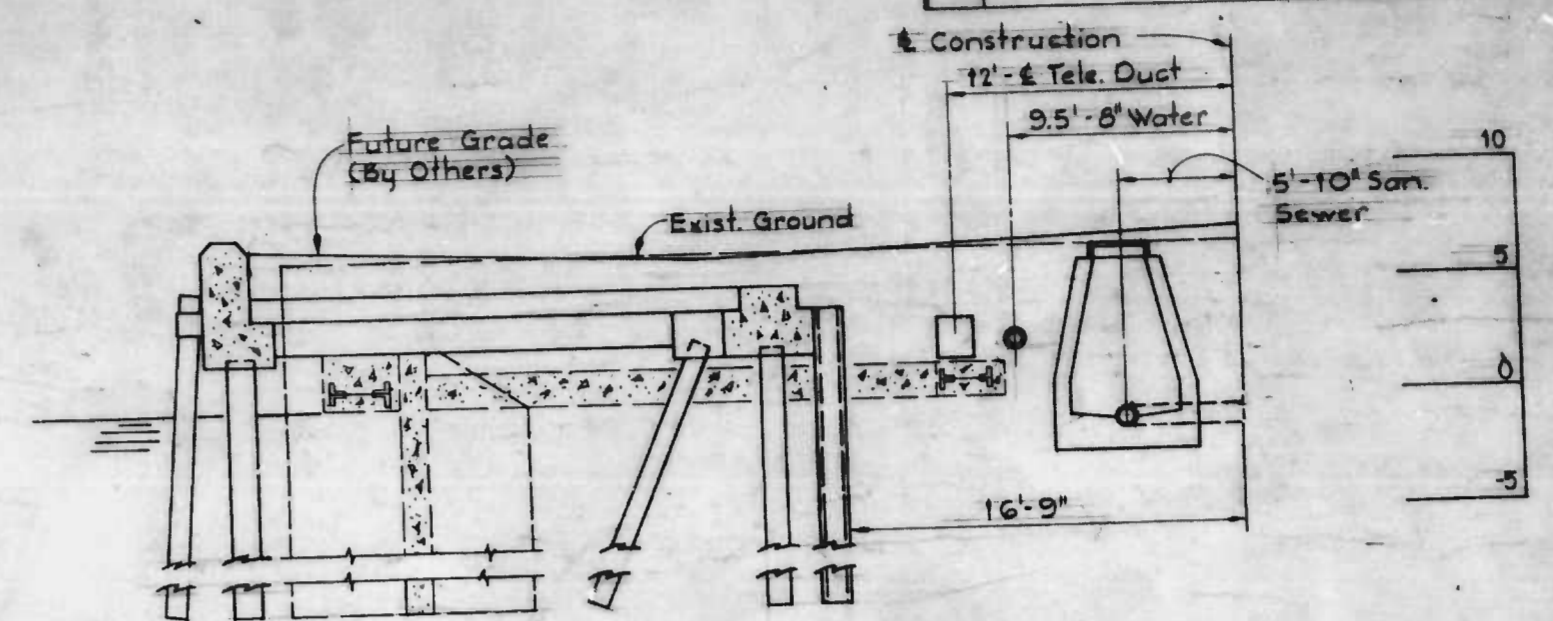
DRAWN BY
EXAMINED BY
W.O. 80299

FILE REF.

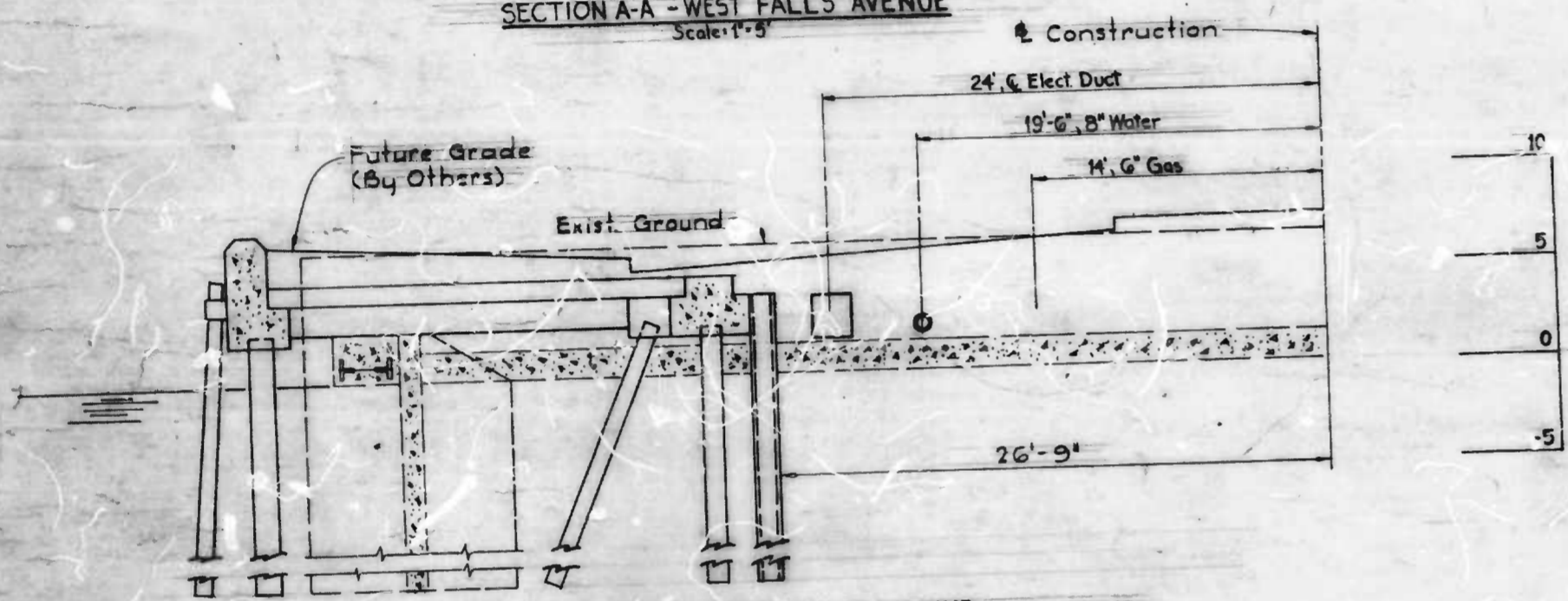
REVISIONS		
NO.	DESCRIPTION	DATE BY



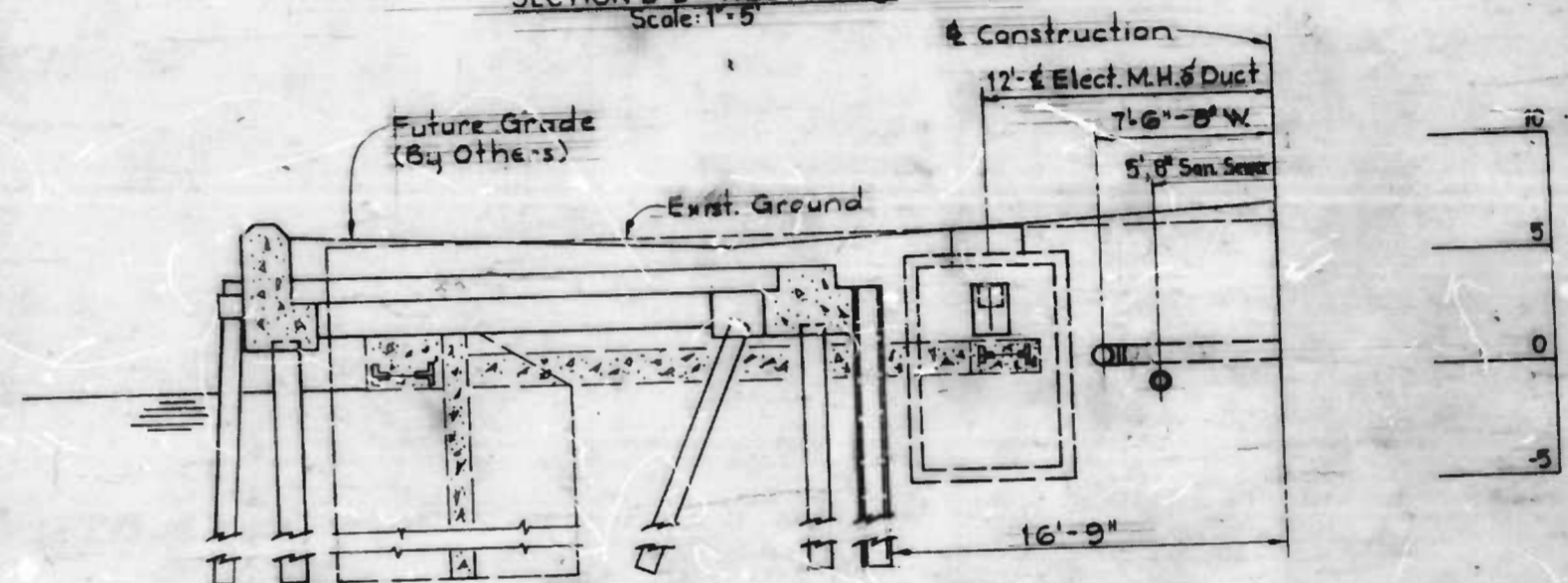
SECTION A-A - WEST FALLS AVENUE
Scale: 1"=5'



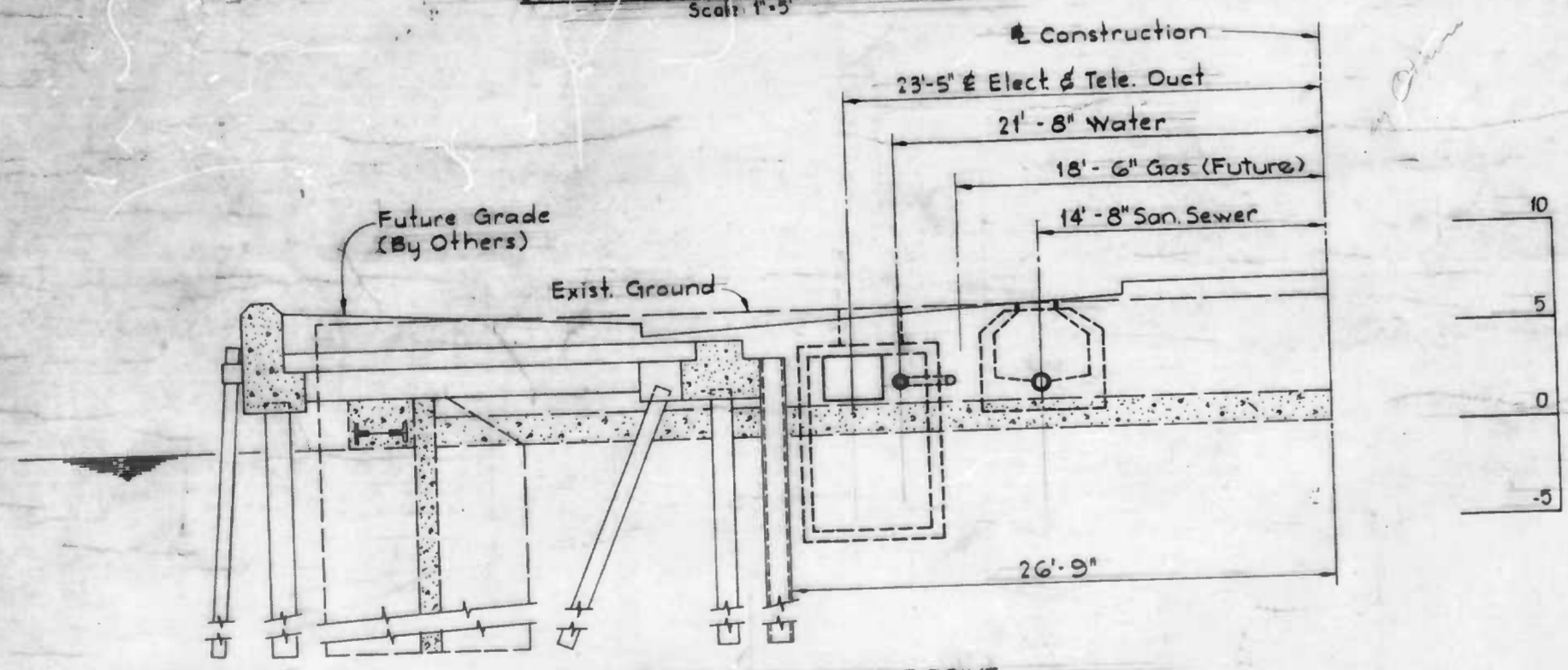
SECTION D-D - WEST PROM.
Scale: 1"=5'



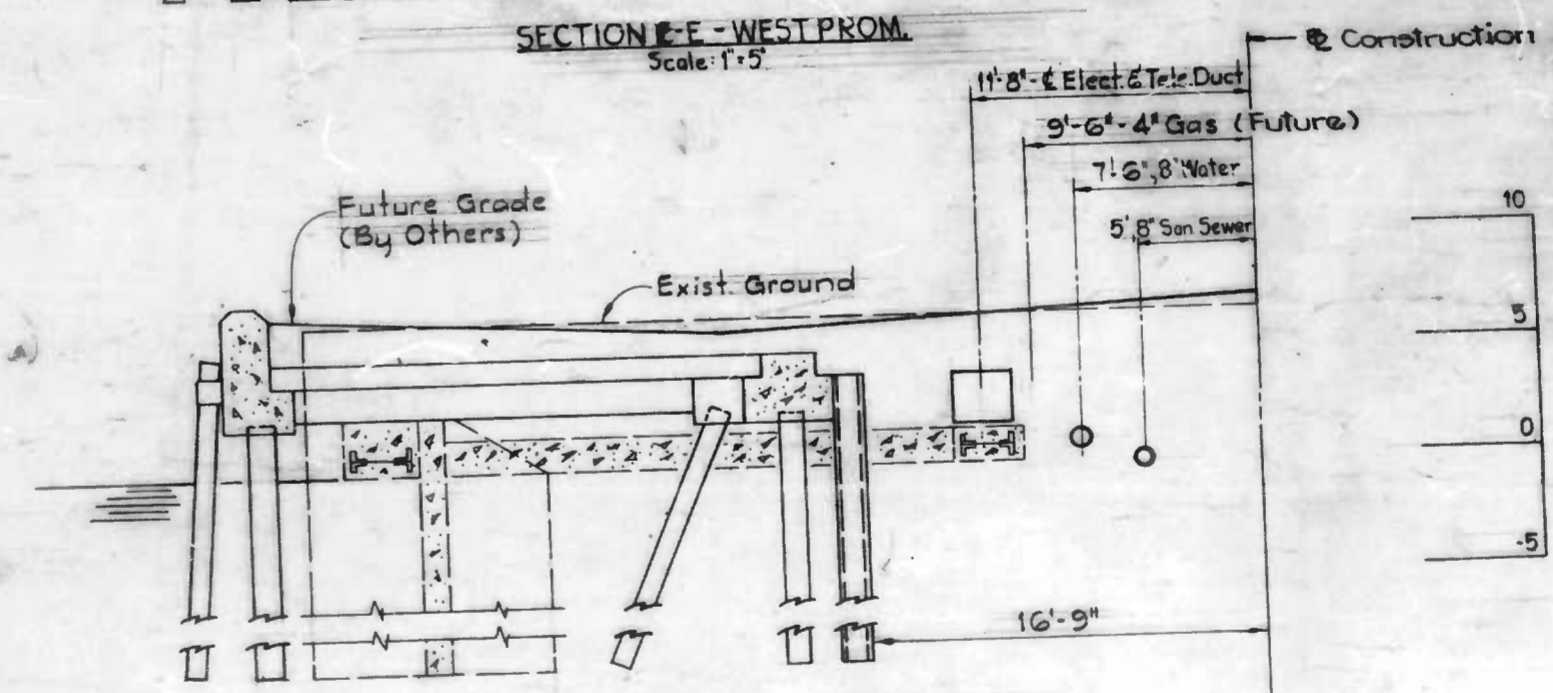
SECTION B-B - WEST FALLS AVENUE
Scale: 1"=5'



SECTION E-E - WEST PROM.
Scale: 1"=5'



SECTION C-C - SERVICE DRIVE
Scale: 1"=5'



SECTION F-F - WEST PROM.
Scale: 1"=5'

DRAWN BY
EXAMINED BY



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE MARYLAND

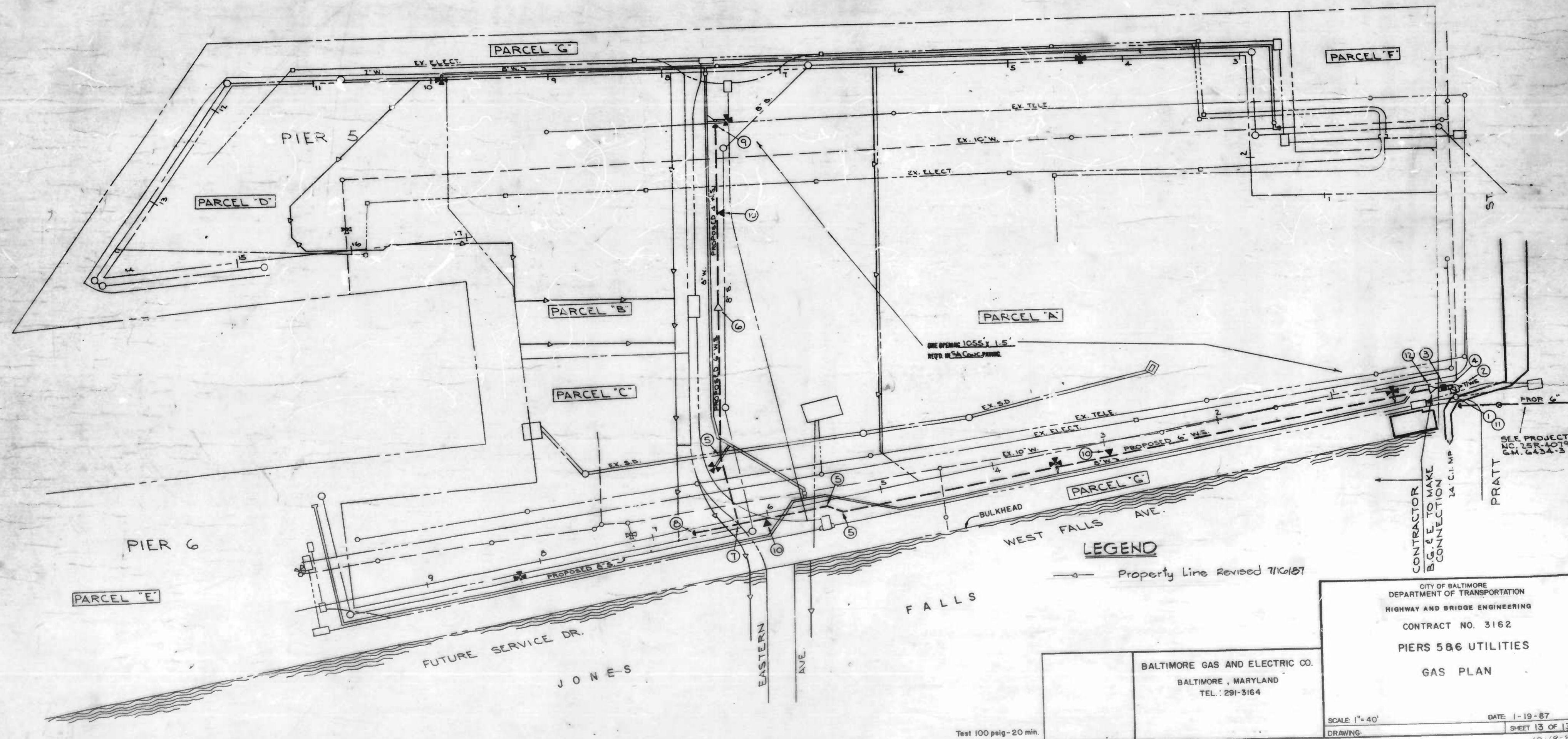
CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 5&6 UTILITIES
CROSS SECTIONS
SCALE AS SHOWN
DATE: JAN. 19, 1987
DRAWING: SHEET 12 OF 13
16-15-87

FILE REF.

G.M. 9037-1
 INSTALL ABOUT 855' OF 6" W.S. GAS MAIN (MP)

G.M. 9037-2
 INSTALL ABOUT 165' OF 4" W.S. GAS MAIN (MP)

ITEM NO.	QUANTITY	DESCRIPTION	UNIT
1	1	TEE STREET	40-182
2	1	COUPLING UNSUL	40-187
3	1	ELBOW 90°	40-376
4	2	ELBOW 45°	40-378
5	1	4" REDUCER	40-474
6	1	TEE	40-478
7	1	CAP WELD	40-522
8	1	CAP WELD	40-523
9	2	ANODE PILE	50-190
10	1	SMALL FRAME & COVER	800-504-1
11	1	4" REDUCER	40-457
12	855	6" W.S. GAS MAIN	40-319
	165	4" W.S. GAS MAIN	40-314
	35	7" W.S. GAS MAIN	40-511

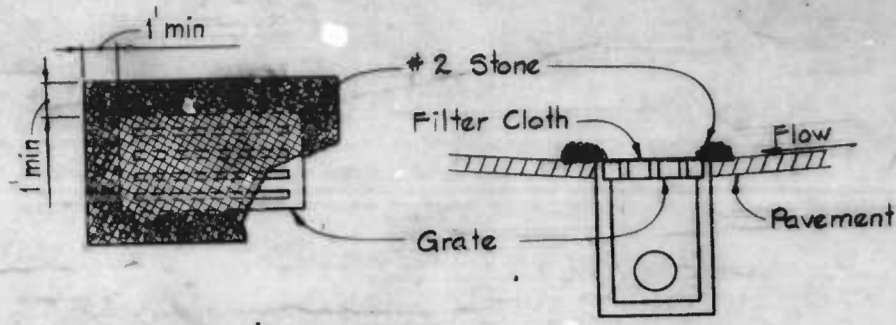


BALTIMORE GAS AND ELECTRIC CO.
 BALTIMORE, MARYLAND
 TEL.: 291-3164

CITY OF BALTIMORE
 DEPARTMENT OF TRANSPORTATION
 HIGHWAY AND BRIDGE ENGINEERING
 CONTRACT NO. 3162
 PIERS 5&6 UTILITIES
 GAS PLAN

SCALE 1"=40'
 DATE: 1-19-87
 SHEET 13 OF 13
 DRAWING: 10-19-87

FILE REF.

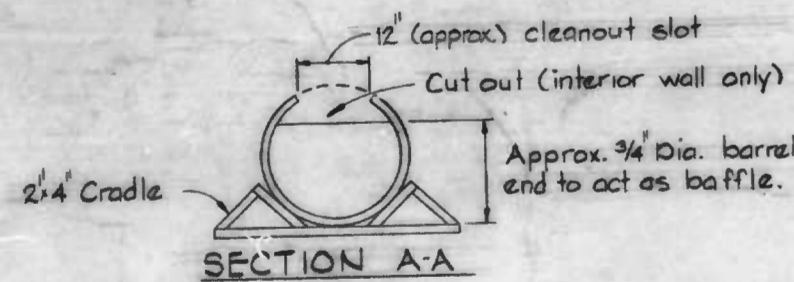
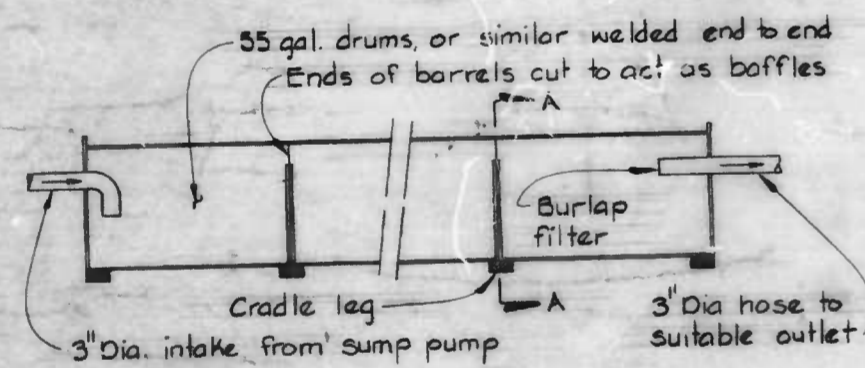


STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS

- 1) Place a piece of approved filter cloth (40-65) sieve at least 2' larger in both dimensions than the grate over the drop inlet as shown on the standard drwg.
- 2) Place clean 2' stone over the filter fabric in such a manner as to prevent water from entering the inlet under the filter cloth.
- 3) This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- 4) Assume that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.
- 5) Provide suitable traffic protection and warning devices around all inlets in paved or trafficked areas while sediment control devices are in place.

TYPE 1 INLET PROTECTION - DETAIL
No Scale



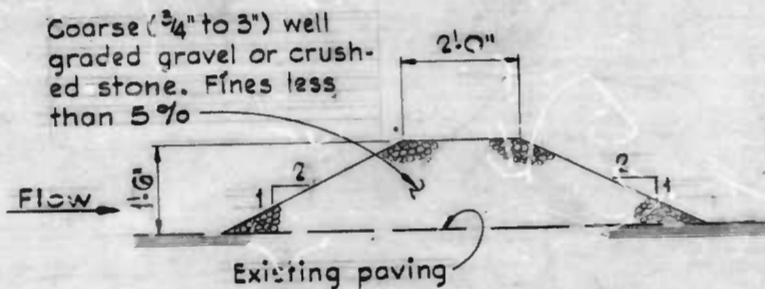
- 1) Clean out sediment tank when one third (1/3) filled with silt.
- 2) Steel drums are used as an example due to their ready availability. Any tanks may be used, providing that the volume meets the following formula: Pump discharge (G.P.M.) x 16 = (Cubic foot Storage)
- 3) All sediment collected in the tank shall be disposed of in a sediment trapping device or as approved by the inspector.

PORTABLE SEDIMENT TANK
No Scale

SUGGESTED SEQUENCE OF CONSTRUCTION

- A. CONDITIONS
THE CONTRACTOR WILL SUBMIT WRITTEN NOTIFICATION TO THE BALTIMORE CITY SEDIMENT CONTROL REPRESENTATIVE AT LEAST THREE WORKING DAYS BEFORE STARTING ANY GRADING ACTIVITIES. STATING THE FOLLOWING:
1. THE DAY HE INTENDS TO START WORK.
 2. THE SOURCE OF ALL BORROW MATERIAL.
 3. THE DESIGNATED STOCKPILE AREA.
 4. THE CONTRACTOR'S STAGING AREA.
 5. THE DISPOSAL SITE FOR ALL EXCESS MATERIAL.
 6. THE CONSTRUCTION SEQUENCE.
 7. THE COMPLETION DAY OF THE WORK.
- B. INSTALL TYPE 1 INLET PROTECTION.
- C. PERFORM REQUIRED CONSTRUCTION ACTIVITIES AS SHOWN ON THE PLANS.
- D. NO PUMPING FROM UTILITIES EXCAVATIONS WILL BE ALLOWED DIRECTLY INTO CITY SYSTEM UNTIL IT IS FILTERED BY WAY OF THE PORTABLE SEDIMENT TANK AS SHOWN ON THIS SHEET.
- E. ALL EXCAVATION MATERIAL SHALL BE PLACED ON THE HIGH SIDE WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL FLOW OF DRAINAGE COURSES.
- F. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES WILL BE REQUIRED.
- G. ALL UTILITY TRENCHES TO BE STABILIZED WITH BITUMINOUS CONCRETE PATCH IN ACCORDANCE WITH BALTIMORE CITY STANDARD NO. BC-576. 10.
- H. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH SCS STANDARDS.
- I. REMOVE TEMPORARY EROSION CONTROL MEASURES ONLY AFTER WRITTEN APPROVAL FROM BALTIMORE CITY'S SEDIMENT AND EROSION CONTROL INSPECTOR.

DEPARTMENT OF PUBLIC WORKS, BUREAU OF HIGHWAYS
ENVIRONMENTAL SERVICES DIVISION, EROSION
AND SEDIMENT CONTROL SECTION
309 MUNICIPAL BUILDING
BALTIMORE, MARYLAND 21202
PHONE (301) 396-3693



STONE DIKE SECTION
Scale: 1/2" = 1'-0"

LEGEND

- Inlet Protection [Symbol]
- Stone Dike [Symbol]

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE "BALTIMORE CITY EROSION AND SEDIMENT CONTROL MANUAL" AND THE "1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" (SCS STANDARD SPECIFICATIONS) AS DISTRIBUTED AND MODIFIED BY THE BALTIMORE CITY SEDIMENT CONTROL SECTION. NOTHING HEREIN RELIEVES THE CONTRACTOR FROM COMPLYING WITH ANY AND ALL OTHER FEDERAL, STATE OR MUNICIPAL REGULATIONS.
2. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES, THE PERMITTEE SHALL REQUEST THAT A BALTIMORE CITY EROSION AND SEDIMENT CONTROL INSPECTOR INSPECT AND APPROVE THE WORK, COMPLETED AT THE STATES OF CONSTRUCTION SPECIFIED BELOW, TO ENSURE ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THIS MANUAL.
 - a. UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE; AND
 - b. UPON FINAL STABILIZATION BEFORE REMOVAL OF SEDIMENT CONTROLS.
3. ALL SEDIMENT CONTROLS AND CRITICAL SLOPES MUST BE STABILIZED WITHIN SEVEN CALENDAR DAYS. ALL OTHER DISTURBED AREAS ON THE PROJECT SITE MUST BE STABILIZED WITHIN FOURTEEN CALENDAR DAYS. ALL STOCKPILE AREAS MUST BE STABILIZED (TEMPORARY STABILIZATION) IN SEVEN (7) CALENDAR DAYS.
4. NO PUMPING FROM FOUNDATION EXCAVATIONS WILL BE ALLOWED DIRECTLY INTO CITY SYSTEM UNTIL IT IS FILTERED BY WAY OF THE PORTABLE SEDIMENT TANK AS SHOWN ON THIS SHEET.
5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE EXCAVATION WHENEVER POSSIBLE AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL FLOW OF DRAINAGE COURSES.
6. CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES WILL BE REQUIRED. ADDITIONALLY, INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.
7. ALL STOCKPILED EARTH AND TOPSOIL SHALL BE PROTECTED BY A SILT FENCE. ALL STOCK PILES INTENDED TO REMAIN OR REMAINING INACTIVE MORE THAN 30 DAYS SHALL BE STABILIZED BY TEMPORARY SEEDING.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING SEDIMENT CONTROL PERMITS FROM THE APPROPRIATE AGENCY FOR OFFSITE BORROW OR SPOIL AREAS.

EARTHWORK BALANCE (C.Y.)

DESCRIPTION	EXCAVATION	FILL	BORROW
UTILITY CONSTRUCTION	3740	3750	

OWNERS/DEVELOPERS CERTIFICATION

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."

Signature: *James A. Zitt* DATE: 3/18/87
PRINT NAME: JAMES A. ZITT

Address: 204 Municipal Bldg. PHONE: 396-4600

ENGINEER'S CERTIFICATION

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL, WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE CITY EROSION AND SEDIMENT CONTROL SECTION."

Signature: *Charles R. Lortz* DATE: 1-27-87
PRINT NAME: CHARLES R. LORTZ

Address: 2315 St Paul Street PHONE: (301) 235-3451

APPROVED BY: *Fredrick Mose* 3/19/87
EROSION AND SEDIMENT CONTROL REPRESENTATIVE

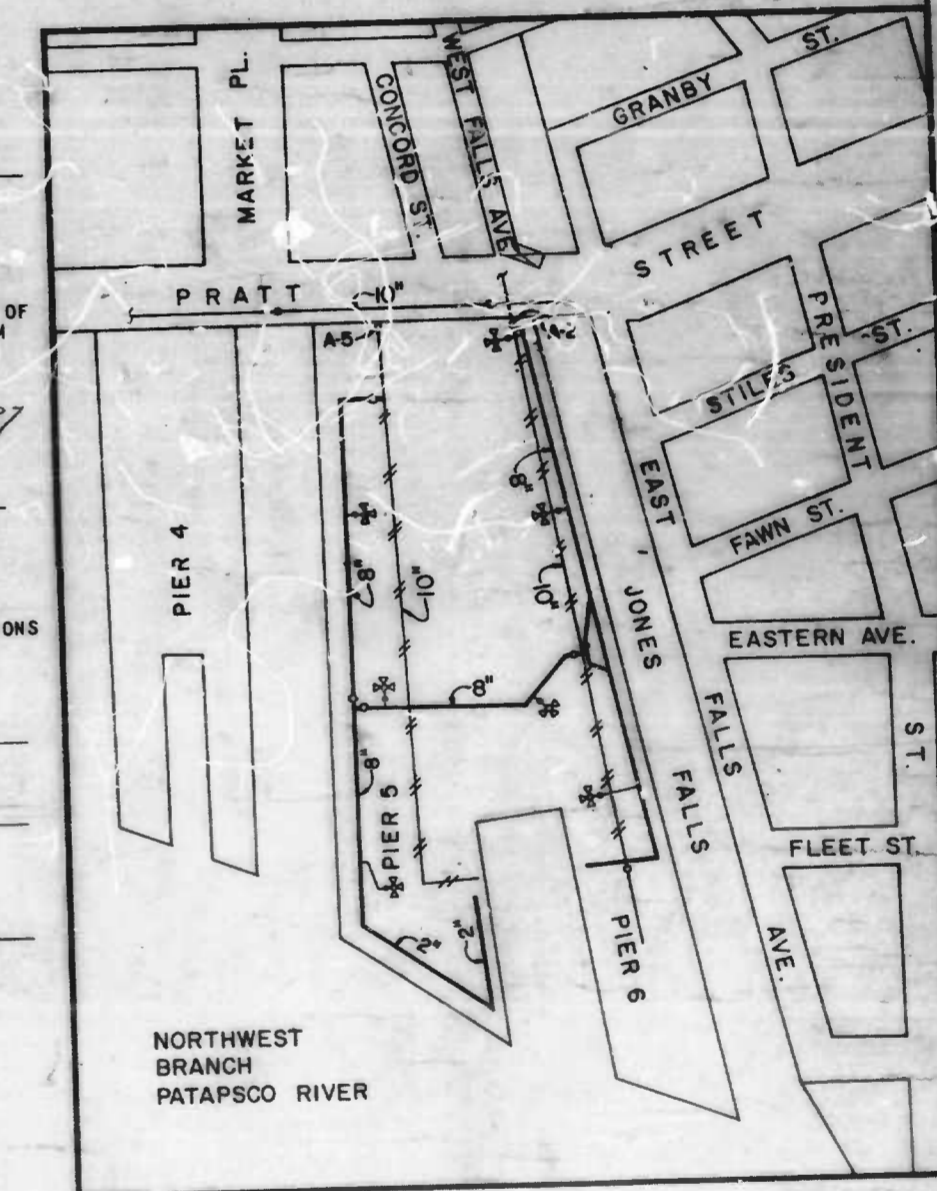
- Notes:
1. 100 year flood level is El. 8.8. All of Piers 5 and 6 are below El. 8.8.
 2. Contractor is responsible for preventing the tracking of dirt onto Pratt Street from all vehicles.
 3. No Stockpiling of earth will be permitted.
 4. Limit of Disturbance shall be confined to the Rights-of-Way (Parcel "G").

REVISIONS

NO.	DESCRIPTION	DATE	BY

VALVE SHUTDOWN SEQUENCE

CLOSE VALVES	WORK AREA
A-2	PIER 6 AT PRATT ST. CONSTRUCT TEMPORARY SPLIT BUTTRESS CONNECT TO EXISTING 10" WITH 10" x 8" REDUCER AND 8" x 8" BEND. CAP AND ABANDON 10" SOUTH OF PRATT STREET.
A-5	PRATT STREET. SHUT VALVE A-8 TO MAKE CONNECTION TO EXISTING 10" INCH. CUT AND CAP 10" W SOUTH OF CONNECTION.



SHUTDOWN DIAGRAM
SCALE: NONE

PHASED STABILIZATION CHART

ACTIVE	INACTIVE	AREA	SQUARE FEET	TYPE OF STABILIZATION	SEQUENCE
	X	A	149,200	BITUMINOUS CONCRETE PAVEMENT.	G



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO.
PIERS 5&6 UTILITIES
SEDIMENT AND EROSION CONTROL PLAN & DETAILS

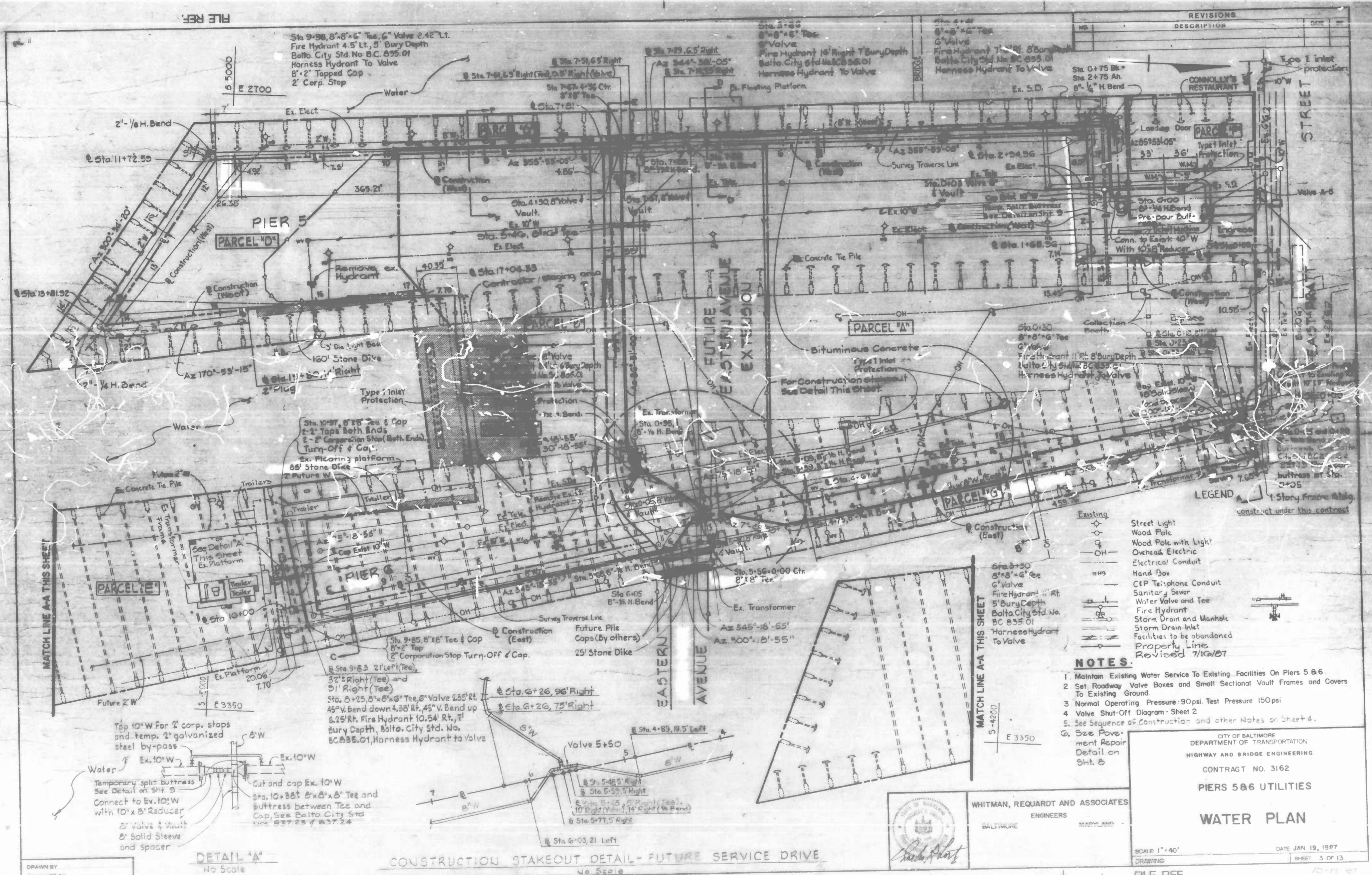
SCALE AS SHOWN DATE JAN 19, 1987
DRAWING SHEET 2 OF 13

FILE REF.

10-15-87

DRAWN BY:
EXAMINED BY:

80299



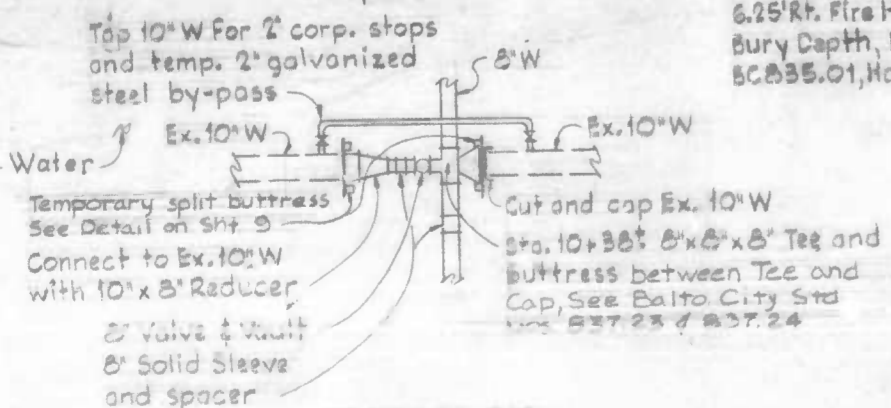
FILE REF.

NO.	DESCRIPTION	DATE	BY

LEGEND

	Street Light
	Wood Pole
	Wood Pole with Light
	Overhead Electric
	Electrical Conduit
	Hand Box
	CIP Telephone Conduit
	Sanitary Sewer
	Water Valve and Tee
	Fire Hydrant
	Storm Drain and Manhole
	Storm Drain Inlet
	Facilities to be abandoned
	Property Line
	Revised 7/10/87

- NOTES:**
- Maintain Existing Water Service To Existing Facilities On Piers 5 & 6
 - Set Roadway Valve Boxes and Small Sectional Vault Frames and Covers To Existing Ground.
 - Normal Operating Pressure: 90psi. Test Pressure 150psi
 - Valve Shut-Off Diagram - Sheet 2
 - See Sequence of Construction and other Notes on Sheet 4.
 - See Pavement Repair Detail on Sht. 6



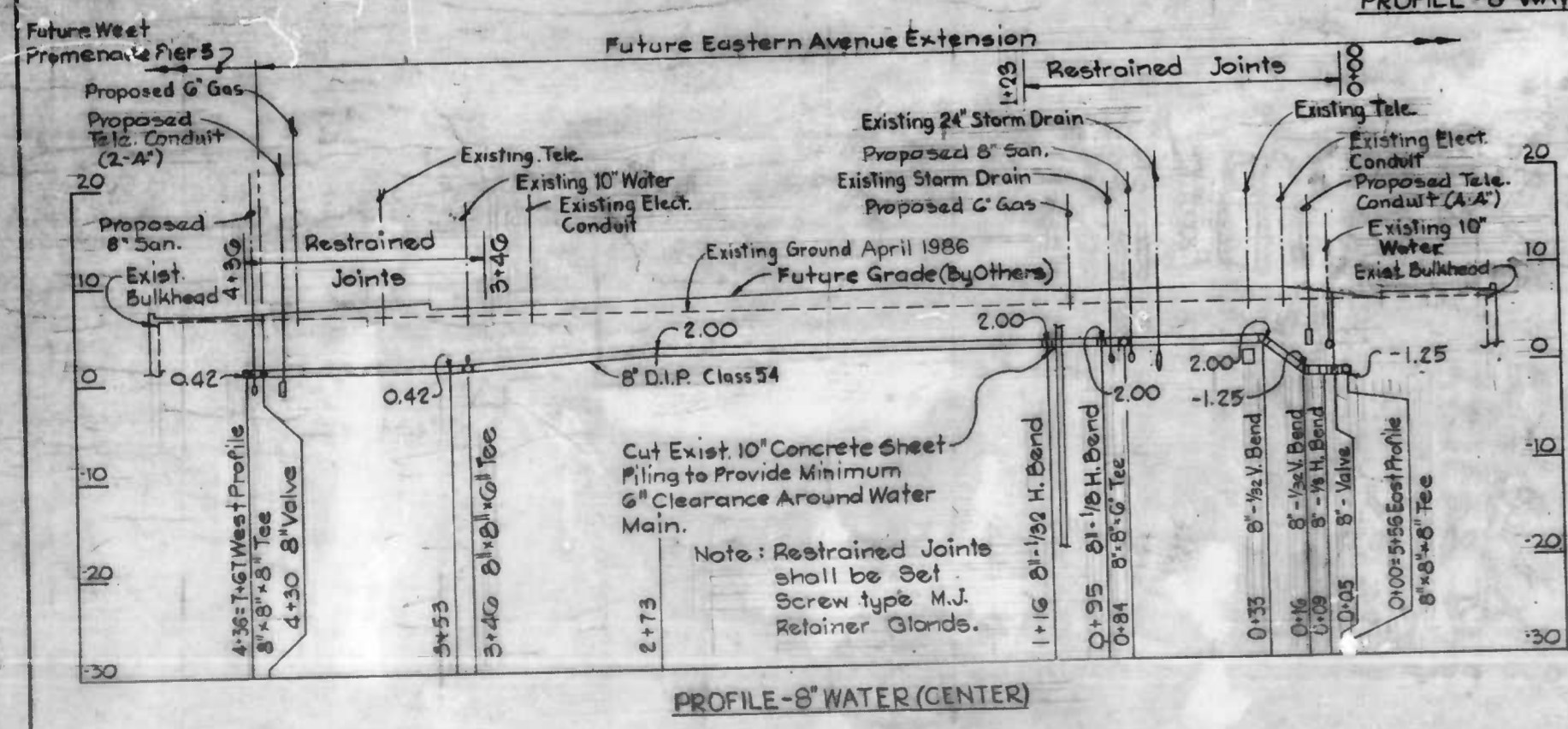
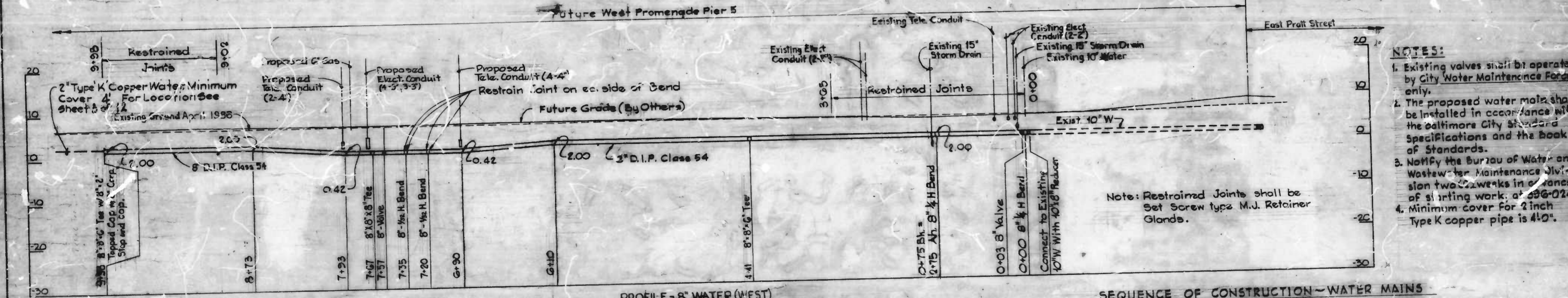
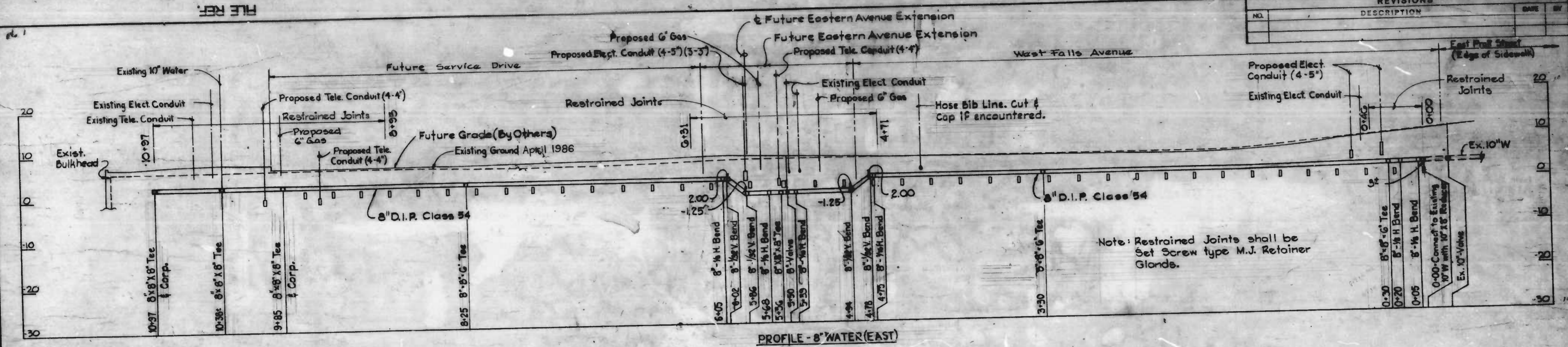
CONSTRUCTION STAKEOUT DETAIL- FUTURE SERVICE DRIVE

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS BALTIMORE MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 5 & 6 UTILITIES
WATER PLAN

SCALE 1"=40' DATE JAN 19, 1987 SHEET 3 OF 13

REVISIONS		
NO.	DESCRIPTION	DATE



8\"/>

- SEQUENCE OF CONSTRUCTION - WATER MAINS**
1. Close Valve A-5 when Connollys will be shut down. Cut existing 10" at 0+00 (West) install 10" x 8" Red, 8" bend, 8" valve and vault. Close new valve, open Valve A-5.
 2. Install 8" and 2" water (West).
 3. Install 8" water (Center).
 4. Install temp. 2" by-pass at 10+38 Rt. & Lt. on existing 10" W to maintain service to Music Pavilion.
 5. Cut and cap existing 10" N & S of new line. See Detail A.
 6. Install 8" water (East), South from Sta. 5+50 (E) including valve to 10+07.
 7. Sterilize and test mains.
 8. Connect to Music Pavilion Service. See Detail A.
 9. Remove 2" by-pass and close and cap corporation stops.
 10. Install 8" water (East) north of valve 5+50 to about Sta. 0+05 (E).
 11. Test and sterilize main between 0+05 and 5+50.
 12. Close Valve A-2.
 13. Cut and connect to existing 10" water at Sta. 0+00.
 14. Open Valve A-2.

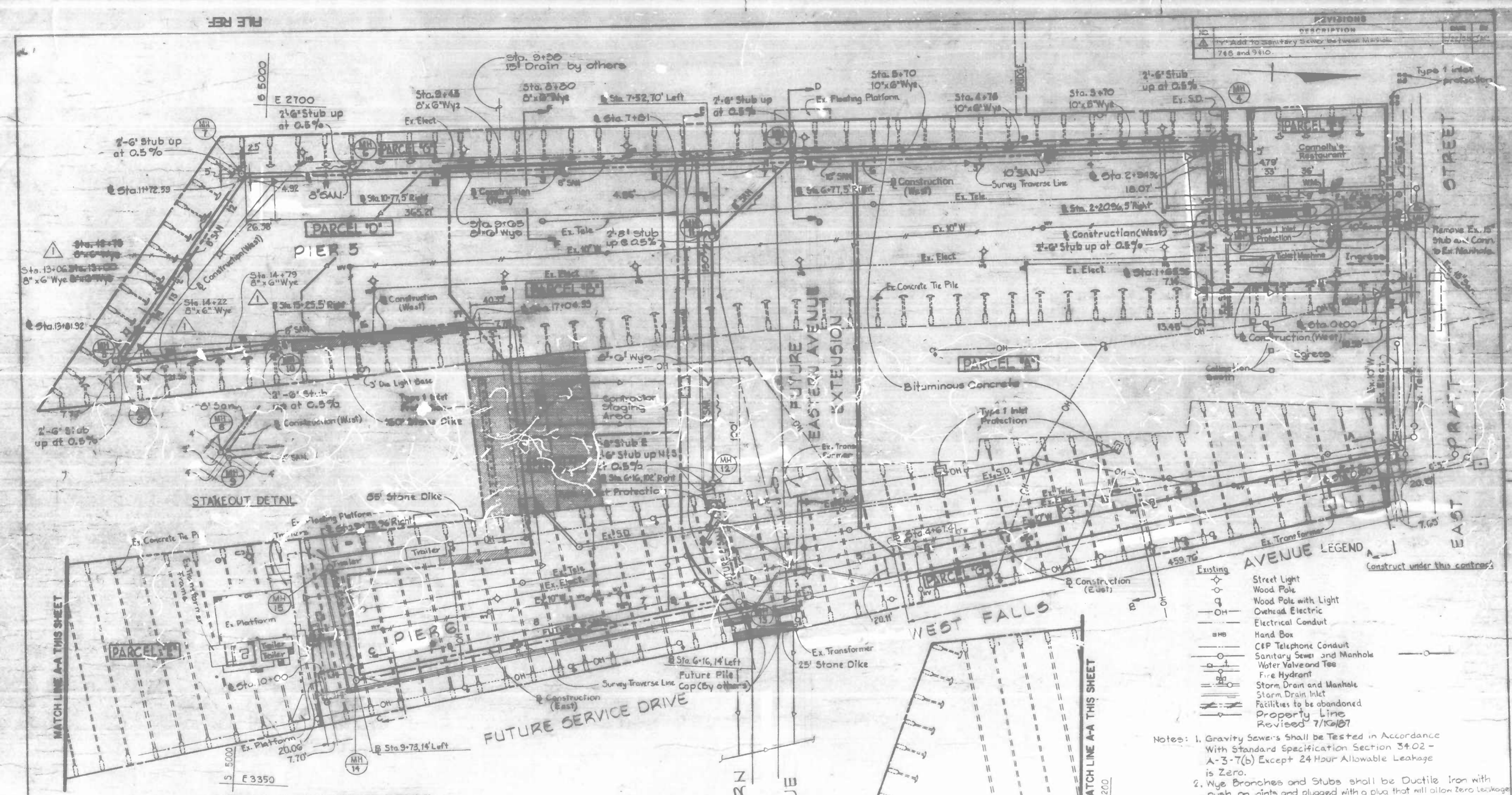
- NOTES:**
1. Existing valves shall be operated by City Water Maintenance Forces only.
 2. The proposed water main shall be installed in accordance with the Baltimore City Standard Specifications and the book of Standards.
 3. Notify the Bureau of Water and Wastewater Maintenance Division two weeks in advance of starting work, at 886-0248.
 4. Minimum cover for 2 inch Type K copper pipe is 4'0".

DRAWN BY
EXAMINED BY
W.O. 80299



WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE MARYLAND

CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 5 & 6 UTILITIES
WATER PROFILES
HORIZ. 1" = 40'
SCALE VERT. 1" = 10'
DATE: JAN 19, 1987
DRAWINGS: SHEET 4 OF 13
FILE REF. 10-17-87



NO.	DESCRIPTION	DATE
1	Add to Sanitary Sewer between Manhole 765 and 9410.	

AVENUE LEGEND

	Street Light
	Wood Pole
	Wood Pole with Light
	Overhead Electric
	Electrical Conduit
	Hand Box
	C&P Telephone Conduit
	Sanitary Sewer and Manhole
	Water Valve and Tee
	Fire Hydrant
	Storm Drain and Manhole
	Storm Drain Inlet
	Facilities to be abandoned
	Property Line
	Revised 7/10/87

Notes: 1. Gravity Sewers Shall be Tested in Accordance With Standard Specification Section 34.02 - A-3-7(b) Except 24 Hour Allowable Leakage is Zero.
 2. Wye Branches and Stubs shall be Ductile Iron with push on joints and plugged with a plug that will allow Zero Leakage.
 3. See Pavement Repair Detail on Sht. D.

SANITARY SEWER - CENTERLINE COORDINATES OF MANHOLES

MANHOLE NUMBER	NORTH COORDINATE	EAST COORDINATE
MH. 1	-3935.909N	2789.479E
MH. 2	-3960.902N	2816.247E
MH. 3	-4125.436N	2850.257E
MH. 4	-4135.694N	2701.590E
MH. 5	-4521.736N	2729.365E
MH. 6	-4920.292N	2755.041E
MH. 7	-5018.538N	2785.109E
MH. 8	-5128.496N	2951.098E
MH. 9	-5120.748N	2965.626E
MH. 10	-4990.169N	2992.441E
MH. 11	-4591.160N	2889.654E
MH. 12	-4580.191N	2884.498E
MH. 13	-4550.745N	3156.709E
MH. 14	-4695.728N	3247.099E
MH. 15	-4928.612N	3190.698E

NOTE:
 LEAKAGE TEST - Zero leakage is required in the test of the proposed sewer lines.

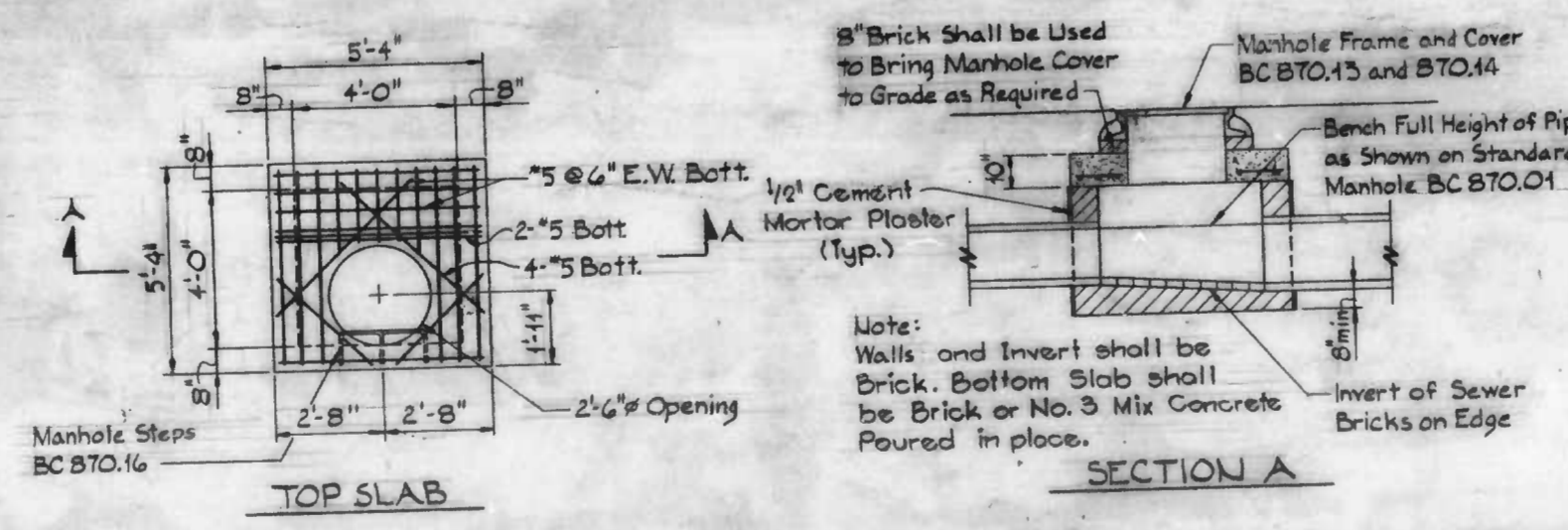
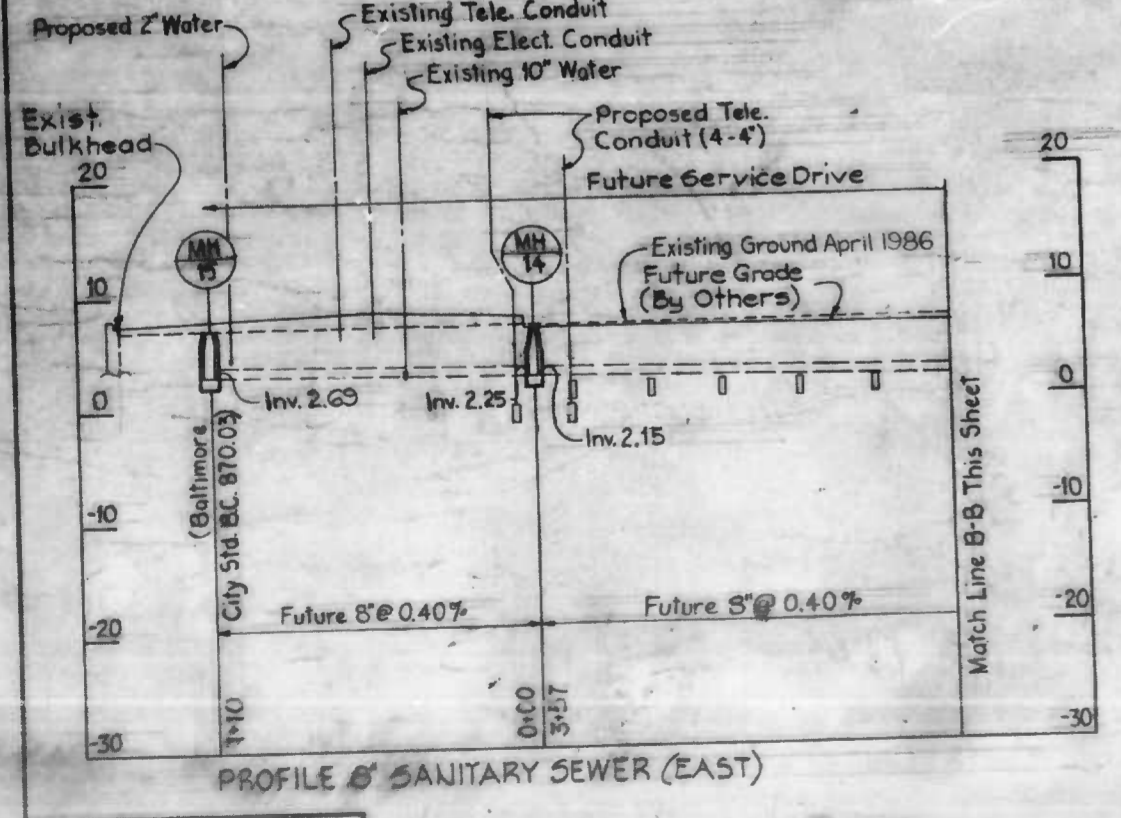
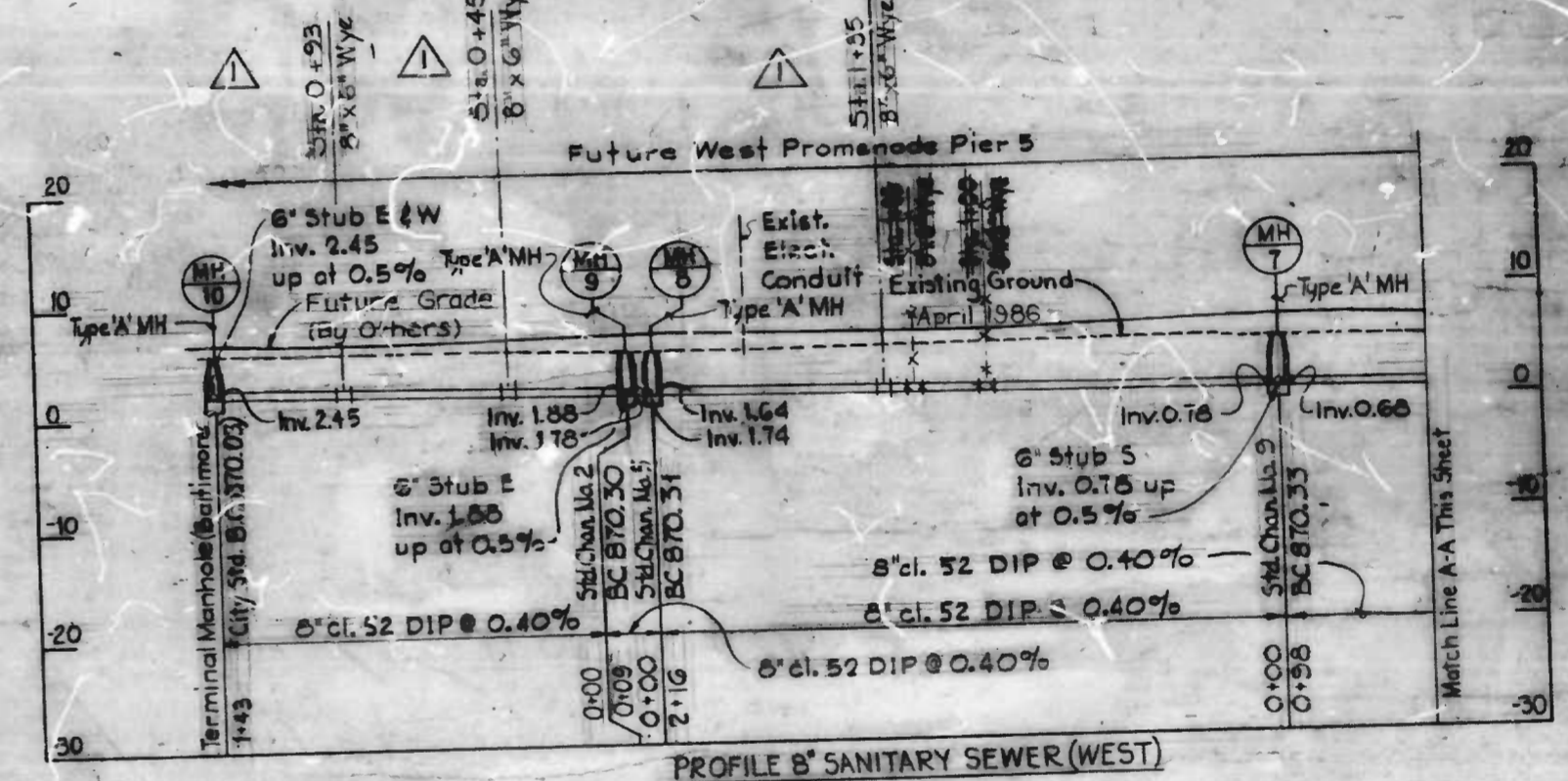
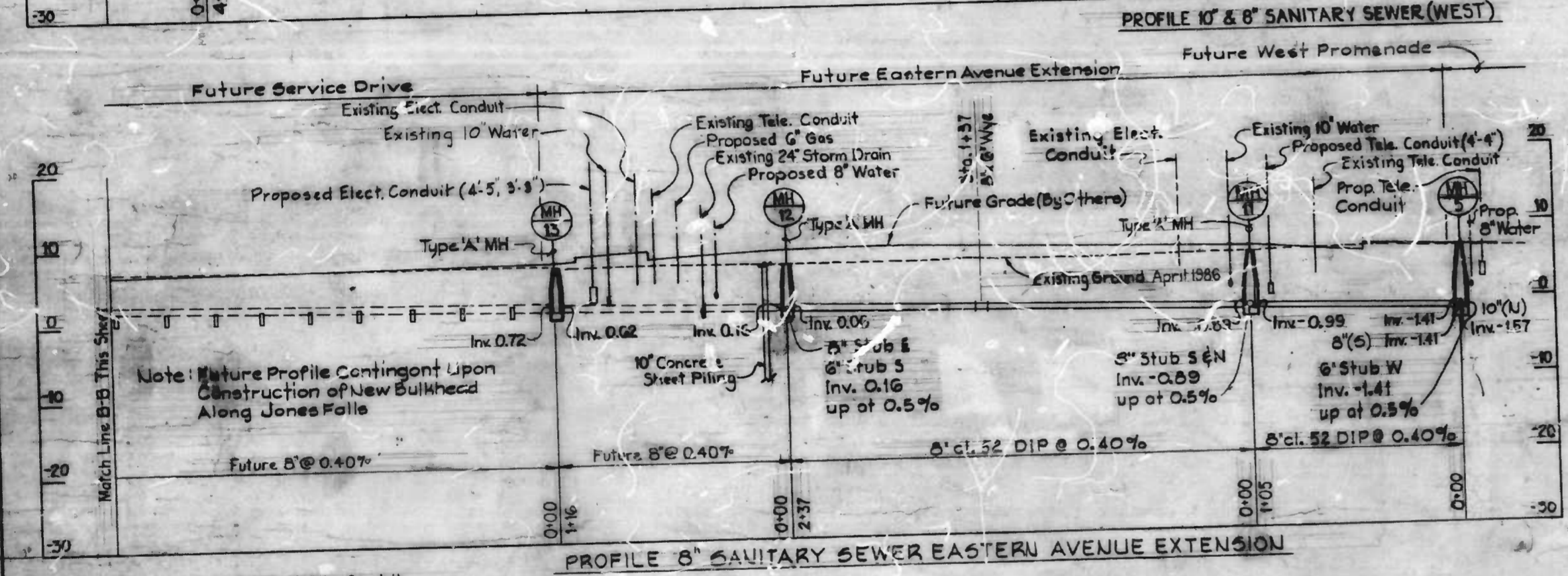
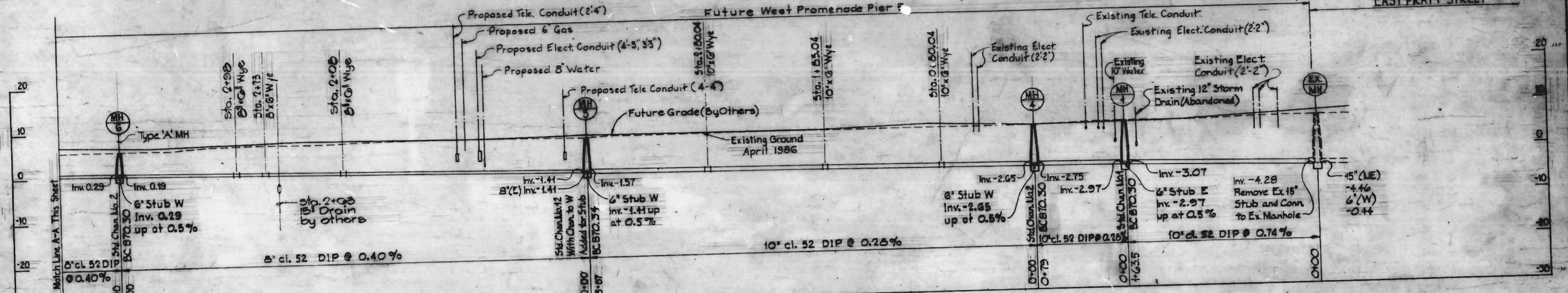
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 DEPARTMENT OF TRANSPORTATION
 HIGHWAY AND BRIDGE ENGINEERING
 CONTRACT NO 3162
 PIERS 5&6 UTILITIES
SANITARY SEWER PLAN

SCALE 1" = 40'
 DATE JAN 19, 1987
 SHEET 5 OF 13

FILE REF.

NO.	DESCRIPTION	DATE	BY
1	Added to Sanitary Sewer between Manholes 748 and 910		



Note: Set Manhole Frame and Cover to Existing Ground.
 NOTE: LEAKAGE TEST - Zero leakage is required in test of the proposed sewer lines.

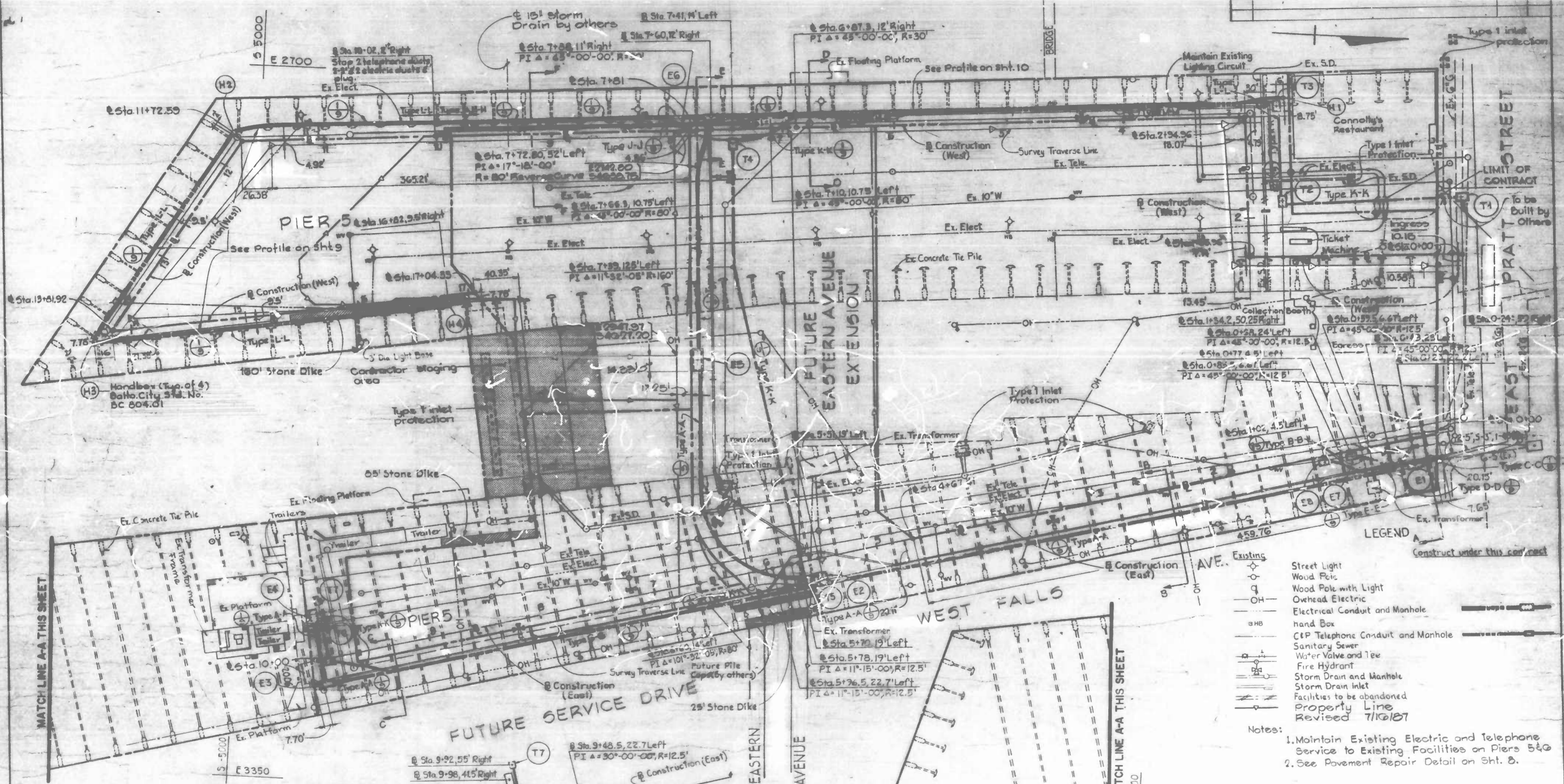
DRAWN BY
 EXAMINED BY

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 HIGHWAY AND BRIDGE ENGINEERING
 CONTRACT NO. 3162
 PIERS 5&6 UTILITIES
SANITARY SEWER PROFILES
 HORIZ. 1" = 40'
 SCALE VERT. 1" = 10'
 DATE JAN. 19, 1987
 DRAWING SHEET 6 OF 13

FILE REF.

NO.	REVISIONS DESCRIPTION	DATE	BY

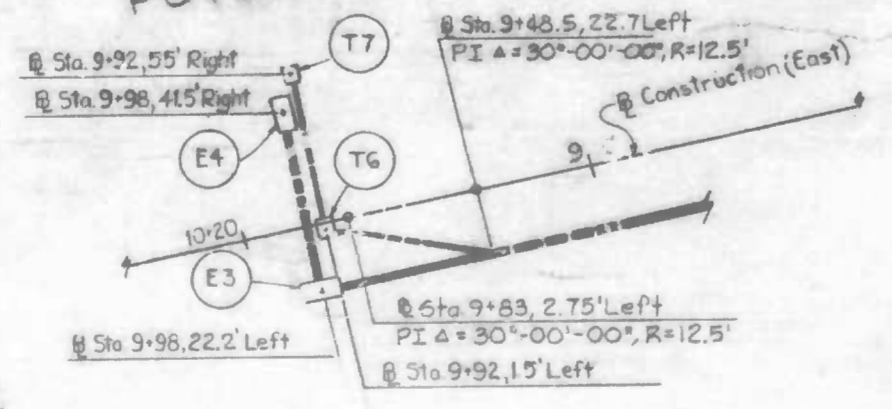


MATCH LINE A-A THIS SHEET

MATCH LINE A-A THIS SHEET

ELECTRIC AND TELEPHONE - CENTERLINE COORDINATES OF MANHOLES

MANHOLE NUMBER	NORTH COORDINATE	EAST COORDINATE
E1	-374.680 N	3011.107 E
E2	-488.254 N	3184.912 E
E3	-497.832 N	3261.368 E
E4	-493.985 N	3189.780 E
E5	-4607.825 N	2951.157 E
E6	-4605.028 N	2728.340 E
E7	-4091.403 N	3010.774 E
T1	-4055.586 N	3077.112 E
T2	-3994.742 N	2732.120 E
T3	-3101.782 N	2800.180 E
T4	-4111.027 N	2896.056 E
T5	-4624.207 N	2732.598 E
T6	-4624.633 N	3189.778 E
T7	-4917.276 N	3238.824 E
T8	-4991.608 N	3185.170 E



LEGEND

- Existing Street Light
- Wood Poles
- Wood Pole with Light
- Overhead Electric
- Electrical Conduit and Manhole
- Hand Box
- CEP Telephone Conduit and Manhole
- Sanitary Sewer
- Water Valve and Tee
- Fire Hydrant
- Storm Drain and Manhole
- Storm Drain Inlet
- Facilities to be abandoned
- Property Line
- Revised 7/10/87

Notes:

- Maintain Existing Electric and Telephone Service to Existing Facilities on Piers 5&6
- See Pavement Repair Detail on Sht. B.

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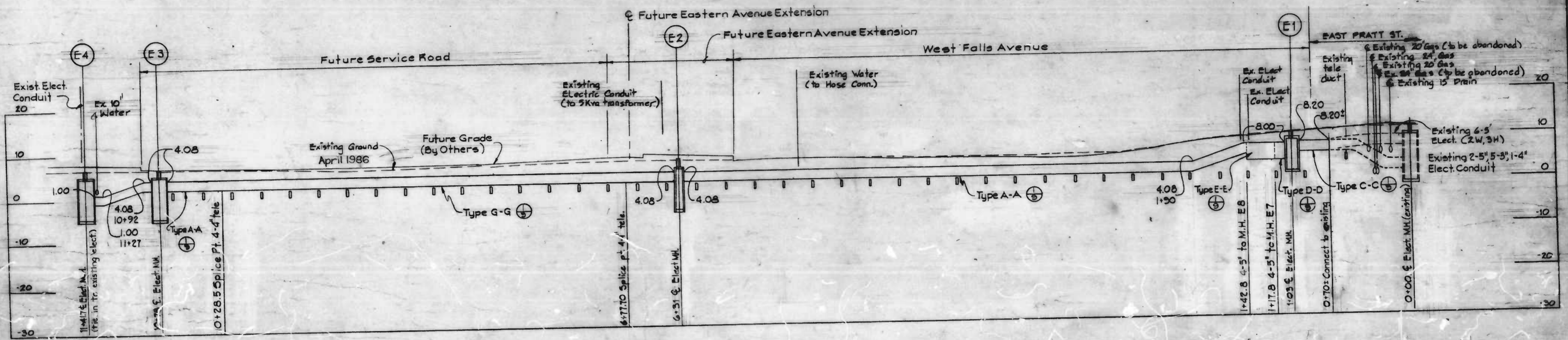
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CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO 3162
PIERS 5&6 UTILITIES
BALTIMORE CITY
CONDUIT PLAN

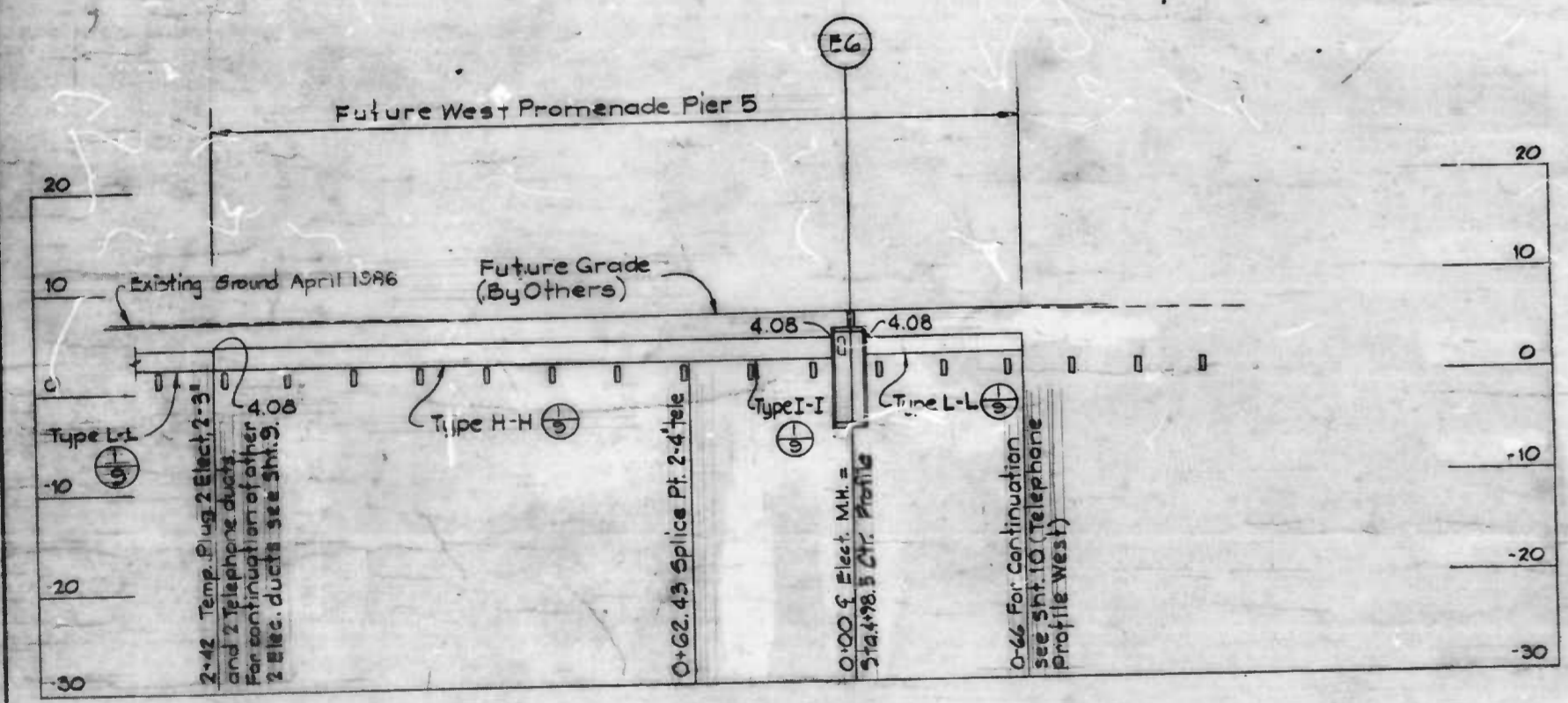
SCALE: 1" = 40'
DRAWING: SHEET 7 OF 13
DATE: JAN 19, 1987

FILE REF.

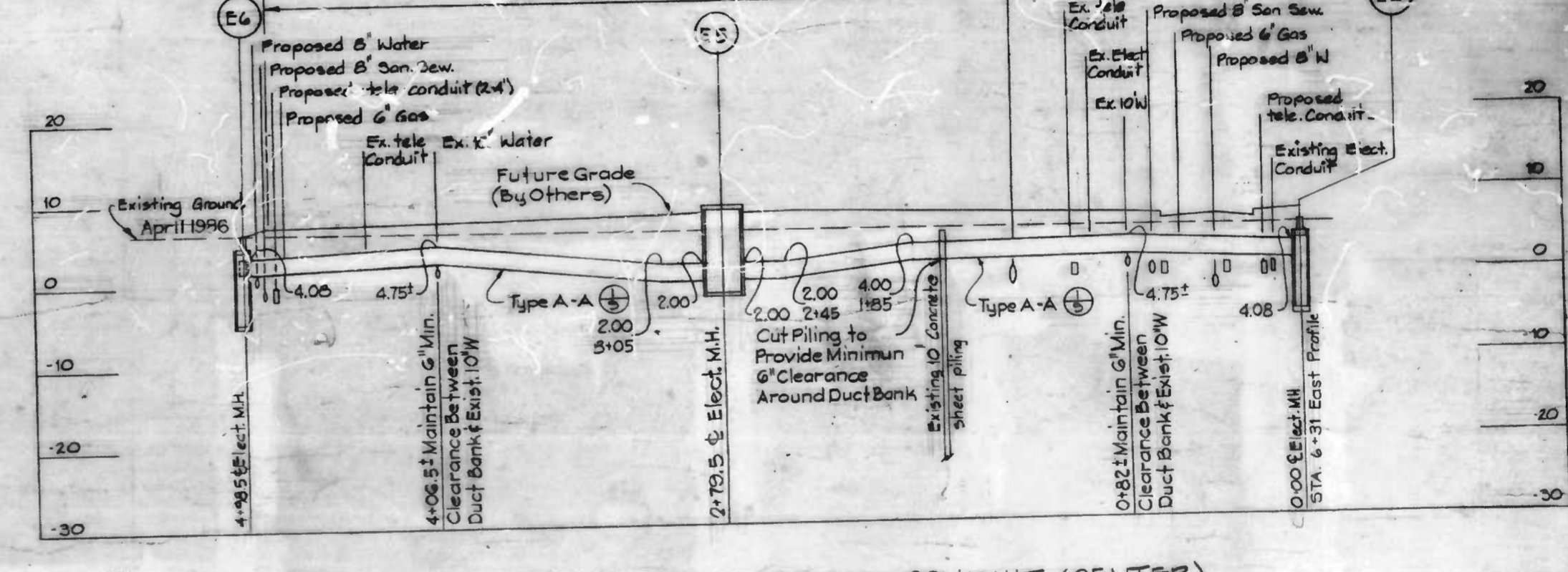
REVISIONS		
NO.	DESCRIPTION	DATE



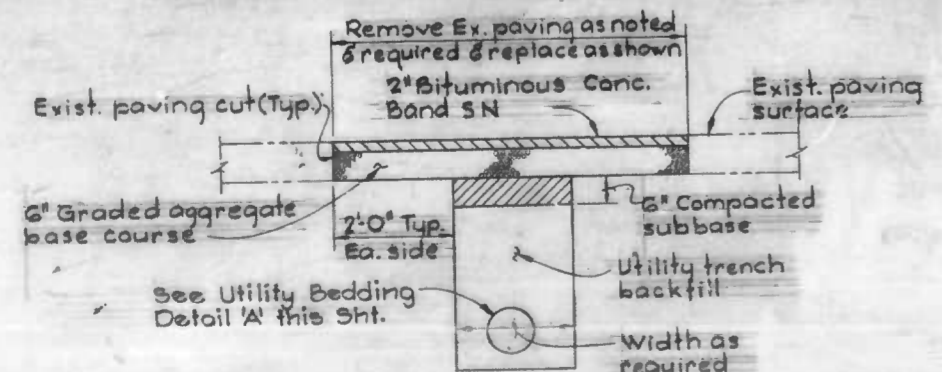
PROFILE - ELECTRICAL CONDUIT (EAST)



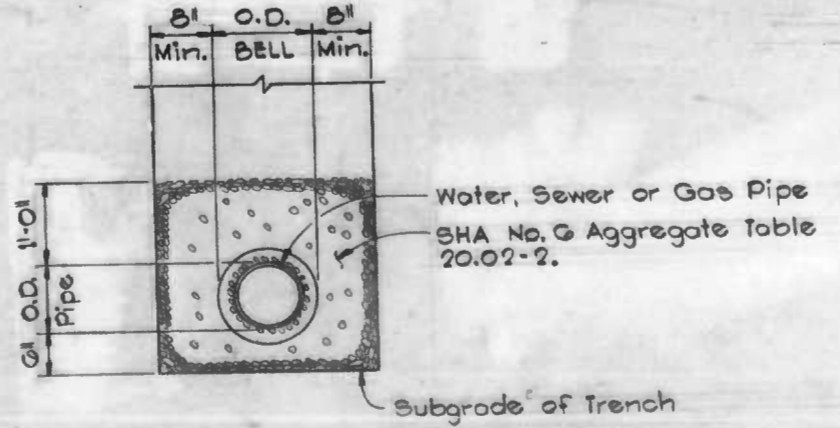
PROFILE - ELECTRICAL CONDUIT (WEST)



PROFILE - ELECTRICAL CONDUIT (CENTER)



PAVEMENT REPAIR DETAIL
Not to Scale



DETAIL - A
Not to Scale

DRAWN BY
EXAMINED BY
W.O. 50299



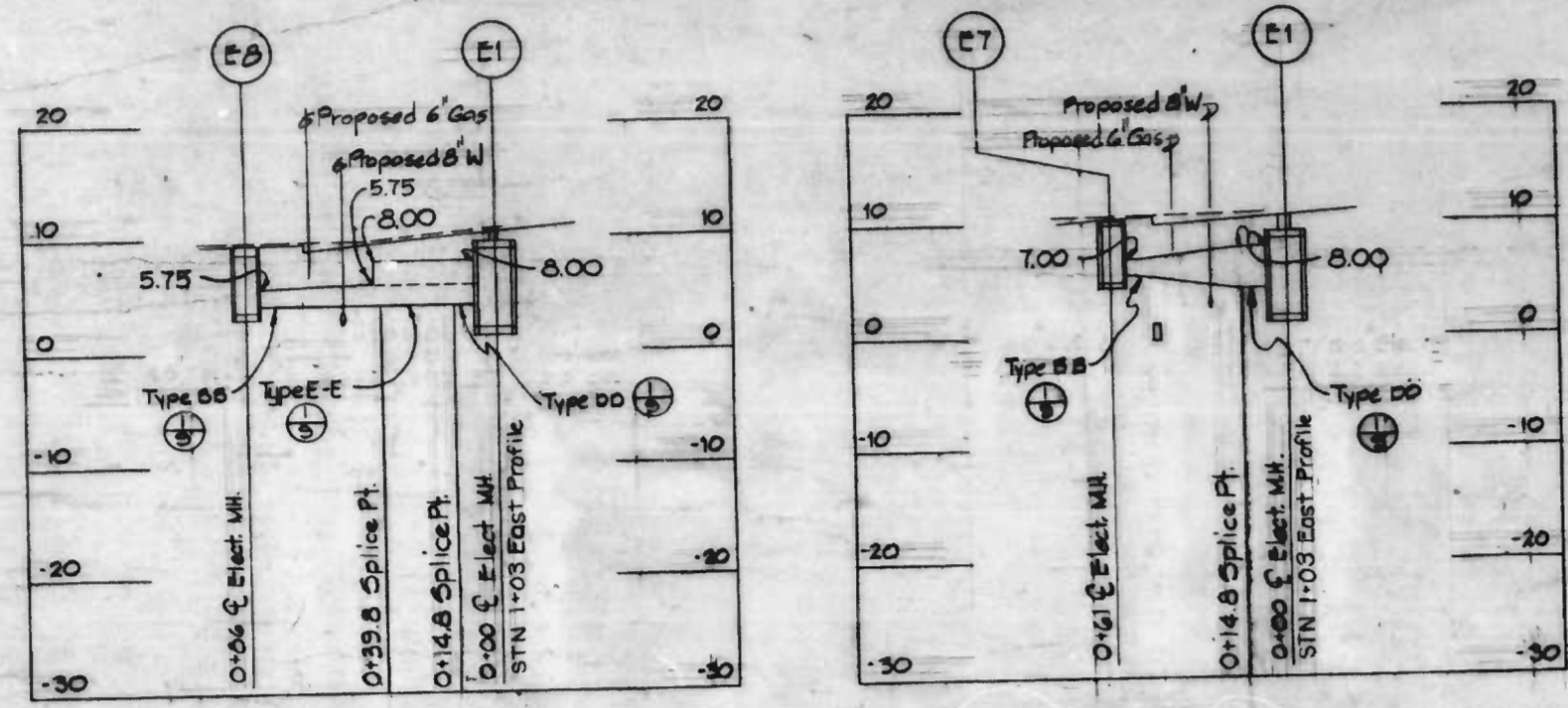
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HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 5&6 UTILITIES
**BALTIMORE CITY
CONDUIT PRC FILES**
HORIZ. 1" = 40'
SCALE VERT. 1" = 10'
DATE: JAN. 19, 1987
DRAWING: SHEET 8 OF 13
10-19-87

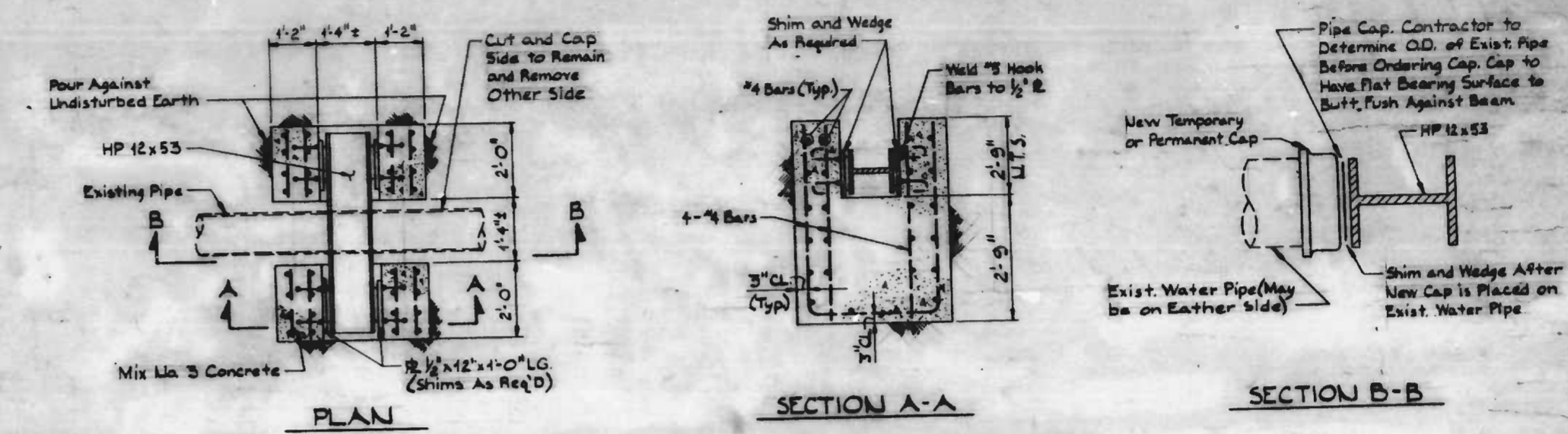
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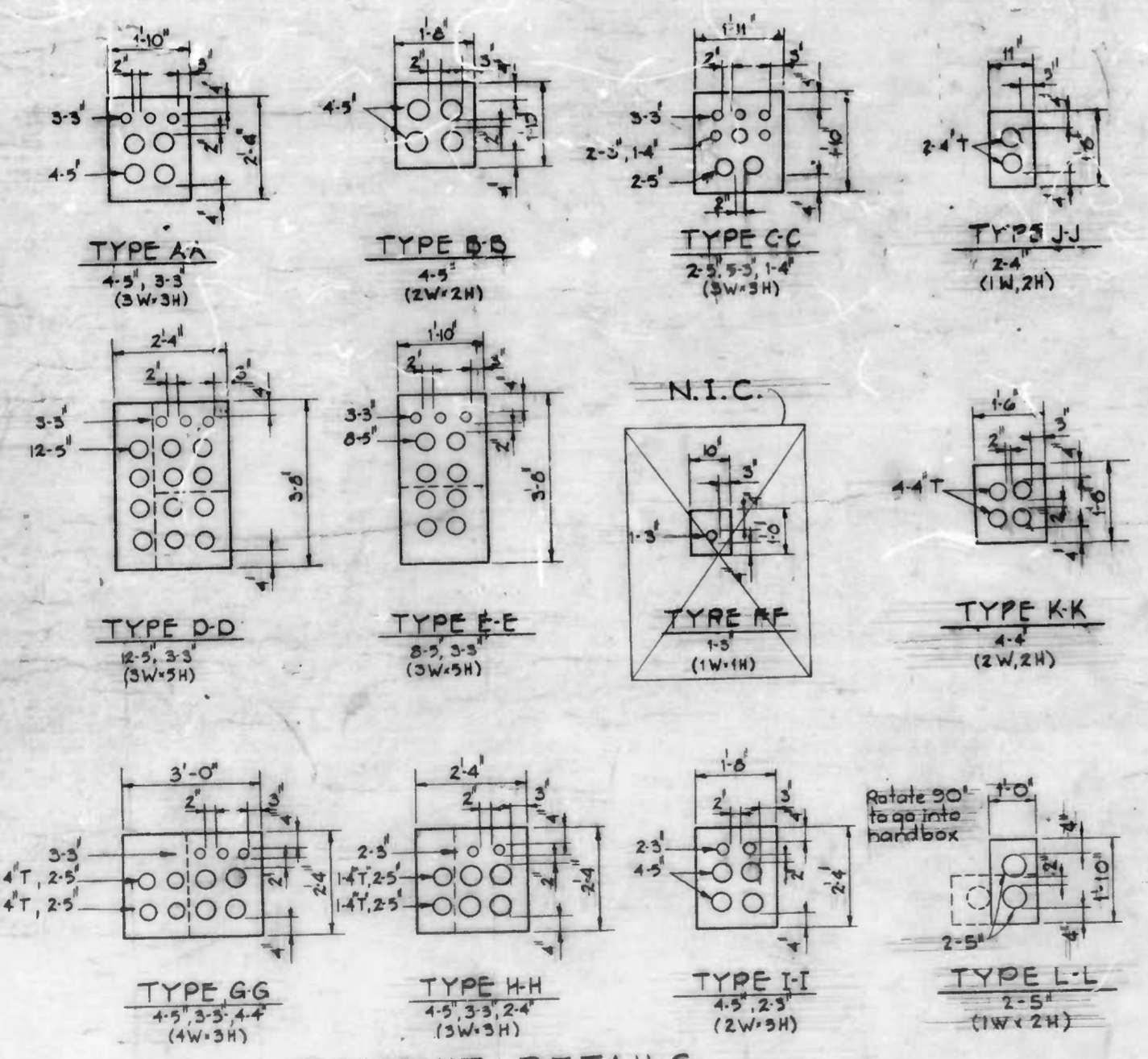
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NO.	DESCRIPTION	DATE



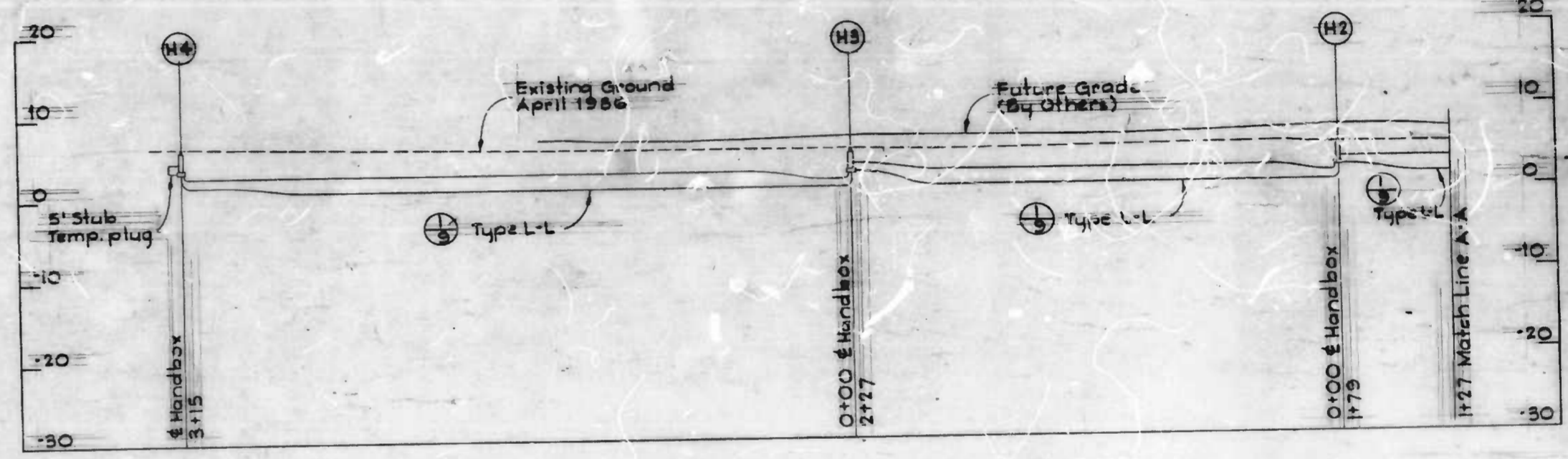
PROFILE-ELECTRICAL CONDUIT



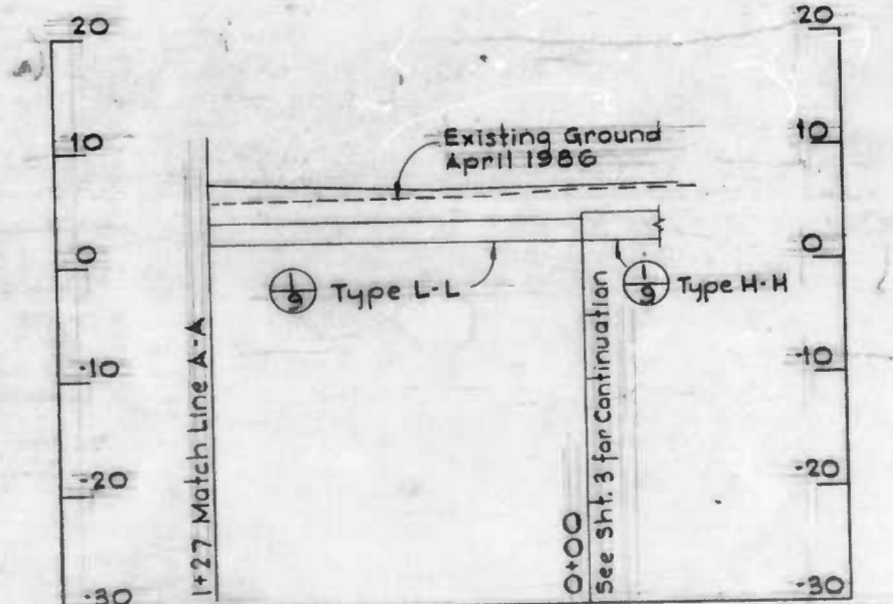
TEMPORARY SPLIT BUTTRESS-10" WATER MAIN
See Plan Location on Detail "A" and 0+00 West on Sht. 3
Scale: None



CONDUIT DETAILS
Scale = 1/2" = 1'-0"



CONTINUATION ELECTRICAL CONDUIT PROFILE (WEST)



Note:
Connect both conduits of Type L-L duct to handboxes. Rotate ducts 90° to bring the conduits into handboxes side by side.

DRAWN BY
EXAMINED BY

W.O. 80299

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CITY OF BALTIMORE
DEPARTMENT OF TRANSPORTATION
HIGHWAY AND BRIDGE ENGINEERING
CONTRACT NO. 3162
PIERS 586 UTILITIES
**BALTIMORE CITY
CONDUIT PROFILES & DETAILS**

SCALE AS SHOWN
DRAWING
DATE JAN 19, 1987
SHEET 9 OF 13
10-15-87

FILE REF.