

WATER RESOURCES DEPARTMENT

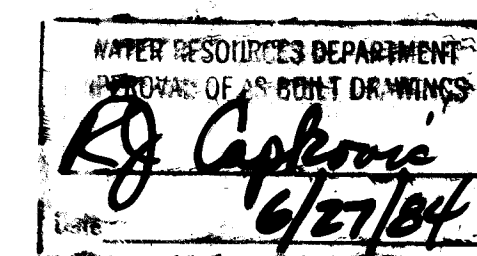
CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

FACILITY LINE 308

AS-BUILT NOTES

1. CONTROL BASED ON N.M. STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE
2. ALL BEARINGS ARE GRID
3. ALL DISTANCES ARE GROUND
4. ALL COORDINATES ARE MODIFIED TO GROUND
5. GROUND TO GRID FACTOR: 0.999679175
6. $\Delta\alpha$ (MEAN) = $-0^{\circ}15'11''$
7. TO CONVERT COORDINATES SHOWN HEREON TO N.M.S.P. GRID SYSTEM, MULTIPLY BY FACTOR 0.999679175



26 18730184

PROJECT NO. 1873

INDEX TO DRAWINGS

Sheet No.	TITLE
1	TITLE SHEET
2	LOCATION MAP
3	PLAN & PROFILE, STA 0+00 TO 5+00
4	PLAN & PROFILE, STA 5+00 TO 16+00
5	PLAN & PROFILE, STA 16+00 TO 27+00
6	PLAN & PROFILE, STA 27+00 TO END
7	DETAILS

NOTES

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1979 EDITION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS) AND THE CONTRACT DOCUMENTS FOR CITY-WIDE UTILITIES AND CASH PAVING NO. 31.

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

APPROVED FOR CONSTRUCTION

CITY ENGINEER
CITY OF ALBUQUERQUE

DATE
10/6/83

ISAACSON & ARFMAN, PA
Consulting Engineering Associates
128 Monroe N.E.
Albuquerque, N.M. 87108
Tel. 268-8828

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY ENGR.			LIQUID WASTE	N/A	10/19/83
ACE-DESIGN	Michael	26 Oct 83	TRAFFIC	N/A	10/19/83
ACE-HYDROLOGY	in field	10/18/83	WATER	Brian	10-19-83
QA	Michael	10/16/83			
DRAWING NO.	1873	MAP NO.	E-12,F-12	SHEET 1 OF 7	

DATE OF PHOTOGRAPHY 5-4-83

LOWER CORRALES RIVERSIDE DRAIN



Lift Station 24

Nominal Scale : 1"= 200'

LOCATION MAP

1 2 3 4 5 6 7 8 9 10 11 12
26 18730284

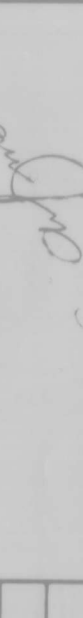
WATER RESOURCES DEPARTMENT
APPROVAL OF AS BUILT DRAWING
RJ Caplanic
4/27/84

PROJECT NO. 1873

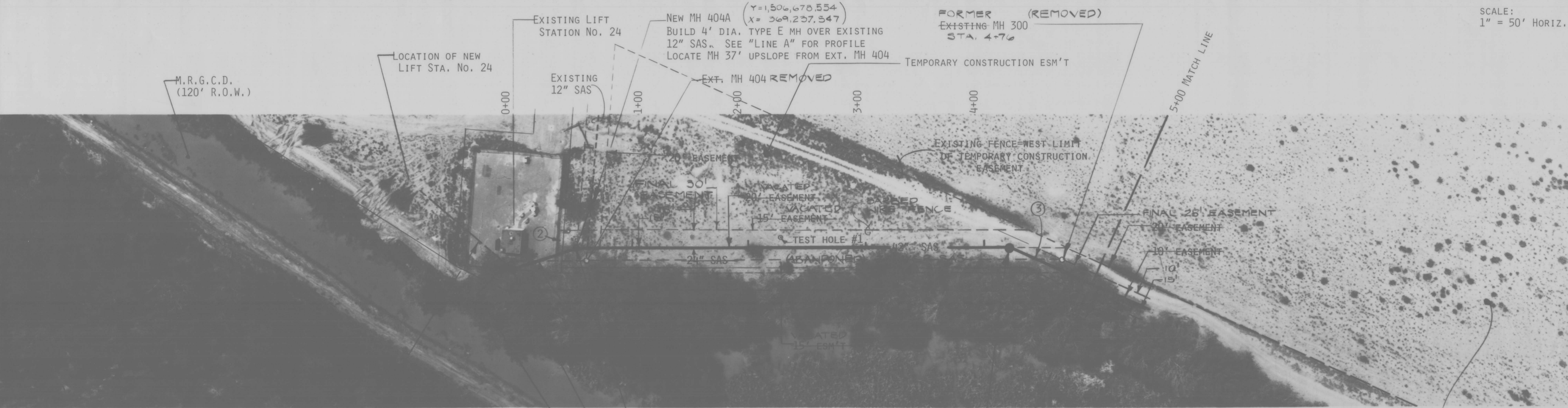
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:
FACILITY LINE 308

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>SAH</i>	10/1/82	Liquid Waste	N/A	10/19/83
A.C.E. - Design	<i>SAH</i>	10/1/82	Traffic	<i>SAH</i>	10/19/83
A.C.E. - Hydrology	N/A	10/1/83	Water	<i>SAH</i>	10-19-83
QA	<i>SAH</i>	10/26/83			
DRAWING NO.	1873	MAP NO. E-12 F-12	SHEET 2 OF 7		

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY				

DATE OF PHOTOGRAPHY: 5/4/83



NOTES

- ① CONTRACTOR TO INSTALL REMOVABLE PLUGS IN THE 24" & 30" LINES INSIDE MH 101. PLUGS SHALL BE APPROVED BY THE WATER RESOURCES DEPARTMENT BEFORE INSTALLATION.
- ② REMOVE EXISTING FENCING BETWEEN MH'S 101 & 102 AS REQUIRED FOR CONSTRUCTION. REPLACE TO EXISTING ALIGNMENT AFTER COMPLETION OF SEWER LINE CONSTRUCTION. INCIDENTAL WORK ITEM. NO SEPARATE PAYMENT WILL BE MADE. CHAIN LINK FENCE REPLACED BY LS #24 CONTRACTOR

78' OF NEW 30" DIP BY OTHERS (NEW LS #24 CONTRACTOR) AND SCHEDULED TO BE IN PLACE PRIOR TO CONSTRUCTION OF THIS CONTRACT

MH 102 0+64.29
STA. -0+52.03
Δ=17°23'23" RT.
BUILD 6' DIA TYPE "E" MH

MH 101-SEE NOTE 1
STA.-0+52.20 0+00
Δ=111°59'23" LT.
BUILD 6' DIA TYPE "E" MH

EXISTING MH 100 (4' DIA)-STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE
STA. -0+12.79
ALL COORDINATES ARE MODIFIED TO GROUND
GROUND TO GRID FACTOR=0.999679175
BUILD CONNECTION FOR NEW 24" LINE. Y=1,506,615.195
PLUG EXISTING 24" LINE TO NORTH AFTER X=369,296.638
INSPECTION & ACCEPTANCE OF NEW 42" SAS

MH 103
STA. 4+23.75 4+30.69
Δ=25°29'00" RT.
BUILD 6' DIA. TYPE "E" MH

NOTES(cont.)

- ③ CONTRACTOR SHALL HAVE THE NEW 42" LINE INSPECTED & APPROVED PRIOR TO THE CONSTRUCTION OF THE CORSS-OVERS. CONTRACTOR SHALL ALSO PROVIDE A BY-PASS PUMPING SCHEDULE TO THE ENGINEER FOR APPROVAL.

MATERIALS

- ACCEPTABLE MATERIALS FOR THE CONSTRUCTION OF THE 42" SANITARY SEWER ARE:
1. VITRIFIED CLAY PIPE
 2. REINFORCED CONCRETE PIPE WITH A T-LOCK PLASTIC LINER
 3. HIGH DENSITY PLASTIC PIPE (SPIROLITE CLASS 40)

SEWER LINE COURSES			
FROM MH	TO MH	BEARING	DISTANCE (FT.)
100	101	S 89°51'55" E	7.50
101	102	N 21°56'18" W	57.32
102	103	N 04°32'55" W	371.72
103	104	N 20°56'05" E	608.70
102	404A	N 69°13'18" W	30.00

AS-BUILTS			
100	101	N/A	
101	102	N 26°20'15" W	64.29
102	103	N 04°03'24" W	366.40
103	104	N 21°02'39" W	595.56
102	404A	N 06°09'56" W	42.23

LINE ABANDONMENT

AFTER THE NEW 42" SAS IS INSPECTED, APPROVED & IN SERVICE, THE OLD 24" SAS SHALL BE ABANDONED. RIMS SHALL BE RETURNED TO THE CITY YARDS AND A COPY OF THE WRITTEN RECEIPT SUBMITTED TO THE W.R.D.'S PROJECT ENGINEER. THE ABOVE GROUND BEEHIVE STRUCTURE OF MH 404 & MH 300 SHALL BE DEMOLISHED AND REMOVED. EACH MANHOLE SHALL THEN BE PLUGGED. ONLY THOSE PORTIONS OF THE OLD LINE THAT CONFLICT WITH THE NEW 42" SAS SHALL BE REMOVED.

TEST HOLES

TEST HOLES ARE FOR THE CONTRACTOR USE DURING THE BIDDING PROCESS TO DETERMINE THE WATER TABLE DEPTH.

TRIMMING OF TREES & BUSHES

NO TREES ARE TO BE REMOVED. CONTRACTOR MAY TRIM ONLY THOSE OVERHANGING BRANCHES IN THAT VERTICAL SPACE OVER THE PERMANENT EASEMENT.

THOSE TREE LIMBS CUT HAVING A DIAMETER OVER ONE (1) INCH SHALL BE SEALED WITH THE APPROPRIATE SEALING COMPOUND TO PREVENT TREE DISEASE. INCIDENTAL WORK ITEM. NO SEPARATE PAYMENT WILL BE MADE.

BUSH REMOVAL SHALL BE KEPT TO A MINIMUM AND ONLY WITHIN THE AREA OF THE PERMANENT EASEMENT.

1	2	3	4	5	6	7	8	9	10	11	12
2	6	1	8	7	3	0	3	8	4		

AS BUILT DRAWING

PROJECT NO. 1873

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

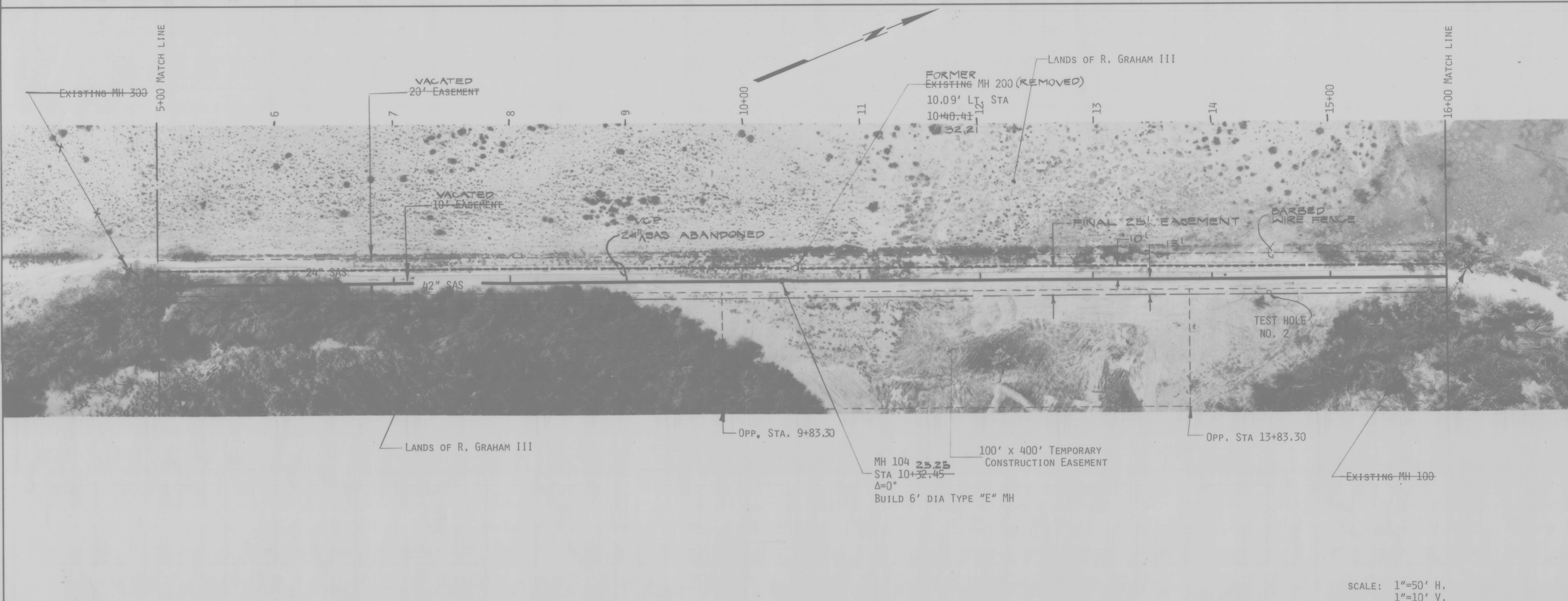
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FACILITY LINE 308

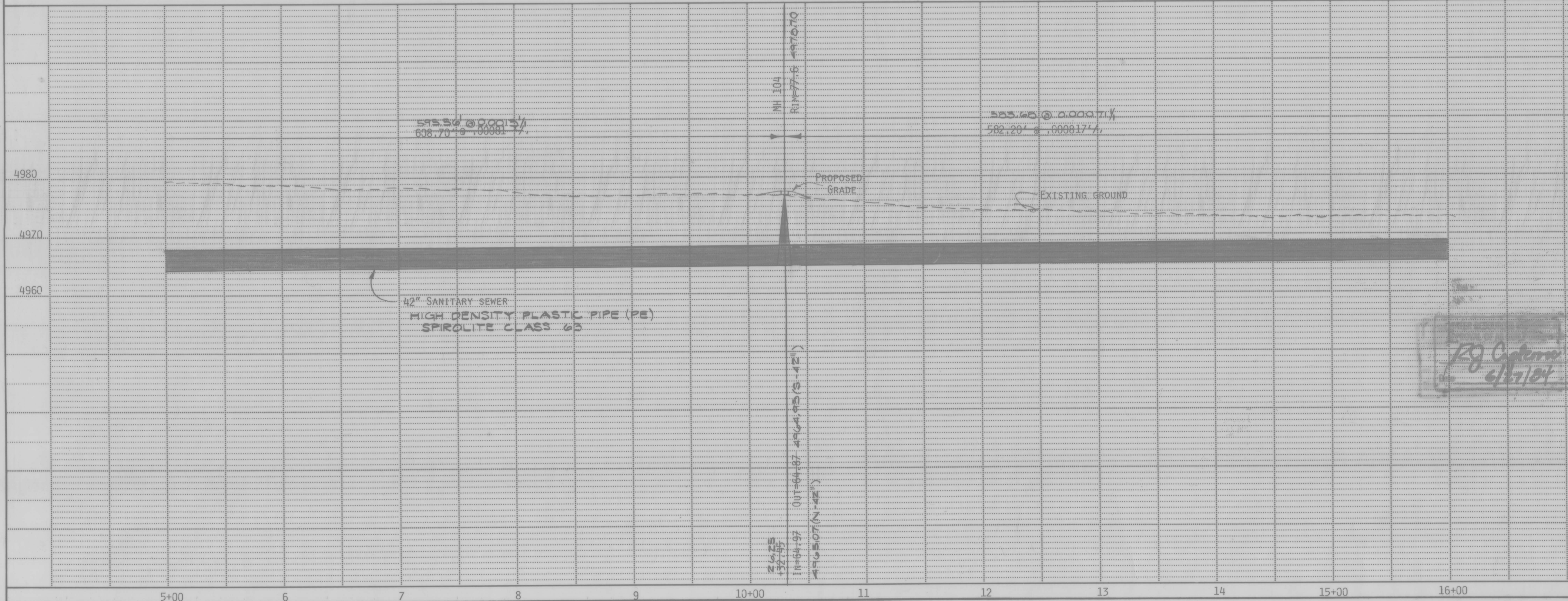
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	1873	MAP NO.	F-12	SHEET	3(Rev.)	OF	7
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DATE OF PHOTOGRAPHY 5-4-83



SCALE: 1"=50' H.
1"=10' V.



SEWER LINE COURSES			
FROM MH	TO MH	BEARING	DISTANCE (FT.)
103	104	N 20°56'05" E	608.70
104	105	N 20°56'05" E	582.20
AS-BUILT			
103	104	N 21°02'39" E	595.56
104	105	N 20°46'54" E	585.68

LINE ABANDONMENT

AFTER THE NEW 42" SAS IS INSPECTED, APPROVED, AND IN SERVICE, THE OLD 24" SAS SHALL BE ABANDONED. RIMS SHALL BE RETURNED TO THE CITY YARDS AND A COPY OF THE WRITTEN RECEIPT SUBMITTED TO THE W.R.D.'S PROJECT ENGINEER. THE ABOVE GROUND BEEHIVE STRUCTURE OF MH 200 SHALL BE DEMOLISHED AND REMOVED. MANHOLE SHALL THEN BE PLUGGED. NO ABANDON PIPE SHOWN ON THIS SHEET SHALL BE REMOVED.

TRIMMING OF TREES & BUSHES

NO TREES ARE TO BE REMOVED. CONTRACTOR MAY TRIM ONLY THOSE OVERHANGING BRANCHES IN THAT VERTICAL SPACE OVER THE PERMANENT EASEMENT. THOSE TREE LIMBS CUT HAVING A DIAMETER OVER ONE(1) INCH SHALL BE SEALED WITH THE APPROPRIATE SEALING COMPOUND TO PREVENT TREE DISEASE. INCIDENTAL WORK ITEM. NO SEPARATE PAYMENT WILL BE MADE. BUSH REMOVAL SHALL BE KEPT TO A MINIMUM AND ONLY WITHIN THE AREA OF THE PERMANENT EASEMENT.

TEST HOLES

TEST HOLES ARE FOR THE CONTRACTORS USE DURING THE BIDDING PROCESS TO AID IN DETERMINING THE WATER TABLE DEPTH.

1	2	3	4	5	6	7	8	9	10	11	12
2	6	1	8	7	3	0	4	8	4		

ENGINEER'S SEAL		FCA		FCA	
		AS-BUILT INFORMATION		REVISIONS	
		NO.	DATE	NO.	DATE
2	6-84	1	12-13-83		
		REMARKS		DESIGN	
		MH 103 - MH 104 SLOPE LENGTH		DESIGNED BY	TOI
				DRAWN BY	NAF
				CHECKED BY	FCA

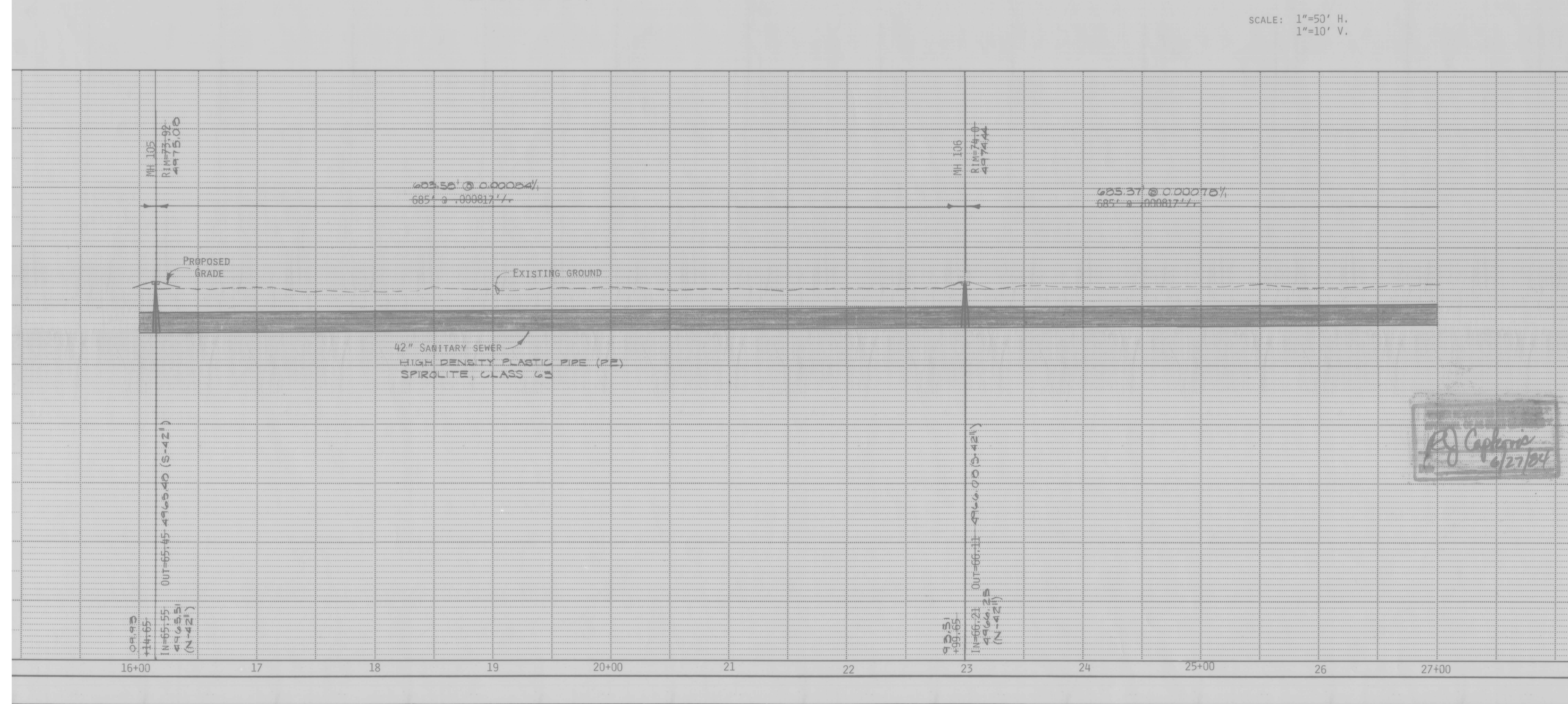
PROJECT NO. 1873

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: FACILITY LINE 308

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	CEH	10/21/83	Liquid Waste	N/A	10-19-83
A.C.E.-Design	gkshch	26 Oct 83	Traffic	NAF	10/19/83
A.C.E.-Hydrology	N/A	10/19/83	Water	B. J. P. J.	10-19-83
QA	ALC	10/19/83			

DRAWING NO. 1873
MAP NO. F-12
SHEET 4 OF 7



SEWER LINE COURSES			
FROM MH	TO MH	BEARING	DISTANCE (FT)
104	105	N 20°56'05" E	582.20
105	106	N 36°21'36" E	685.00
106	107	N 36°21'36" E	685.00
AS-BUILT			
104	105	N 20°56'05" E	583.60
105	106	N 36°21'36" E	685.88
106	107	N 36°07'30" E	685.57

LINE ABANDONMENT

AFTER THE NEW 42" SAS IS INSPECTED, APPROVED AND IN SERVICE, THE OLD 24" SAS SHALL BE ABANDONED. RIMS SHALL BE RETURNED TO THE CITY YARDS AND A COPY OF THE WRITTEN RECEIPT SUBMITTED TO THE W.R.D.'S PROJECT ENGINEER. THE ABOVE GROUND BEEHIVE STRUCTURE OF MH 100, MH 1, & MH 906 SHALL BE DEMOLISHED AND REMOVED. EACH MANHOLE SHALL THEN BE PLUGGED. NO ABANDON SEWER LINE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THIS SHEET.

TRIMMING OF TREES & BUSHES

NO TREES ARE TO BE REMOVED.

CONTRACTOR MAY TRIM ONLY THOSE OVERHANGING BRANCHES IN THAT VERTICAL SPACE OVER THE PERMANENT EASEMENT.

THOSE TREE LIMBS CUT HAVING A DIAMETER OVER ONE (1) INCH SHALL BE SEALED WITH THE APPROPRIATE SEALING COMPOUND TO PREVENT TREE DISEASE. INCIDENTAL WORK ITEM. NO SEPARATE PAYMENT WILL BE MADE.

BUSH REMOVAL SHALL BE KEPT TO A MINIMUM AND ONLY WITHIN THE AREA OF THE PERMANENT EASEMENT.

TEST HOLES

NONE LOCATED WITHIN THE LIMITS
SHOWN ON THIS SHEET.

1	2	3	4	5	6	7	8	9	10	11	12
26		18	73	05	84						

AS BUILT DRAWING

PROJECT NO. 1873

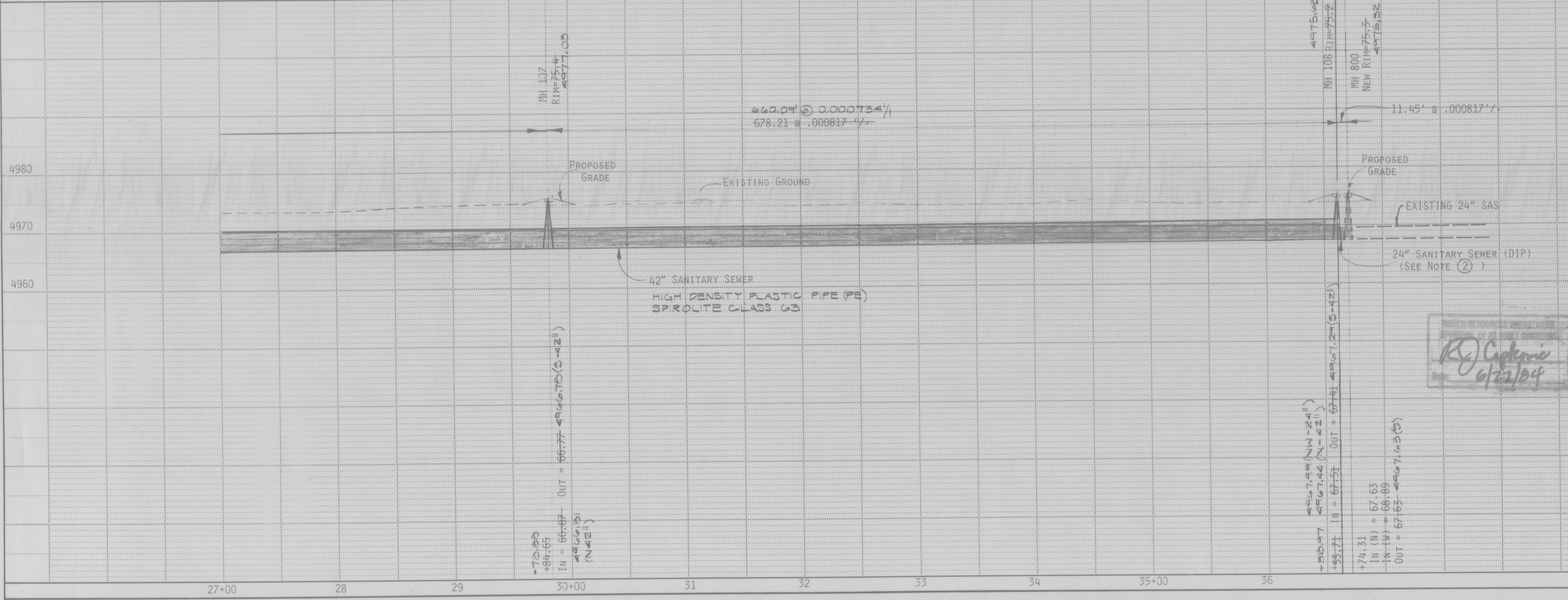
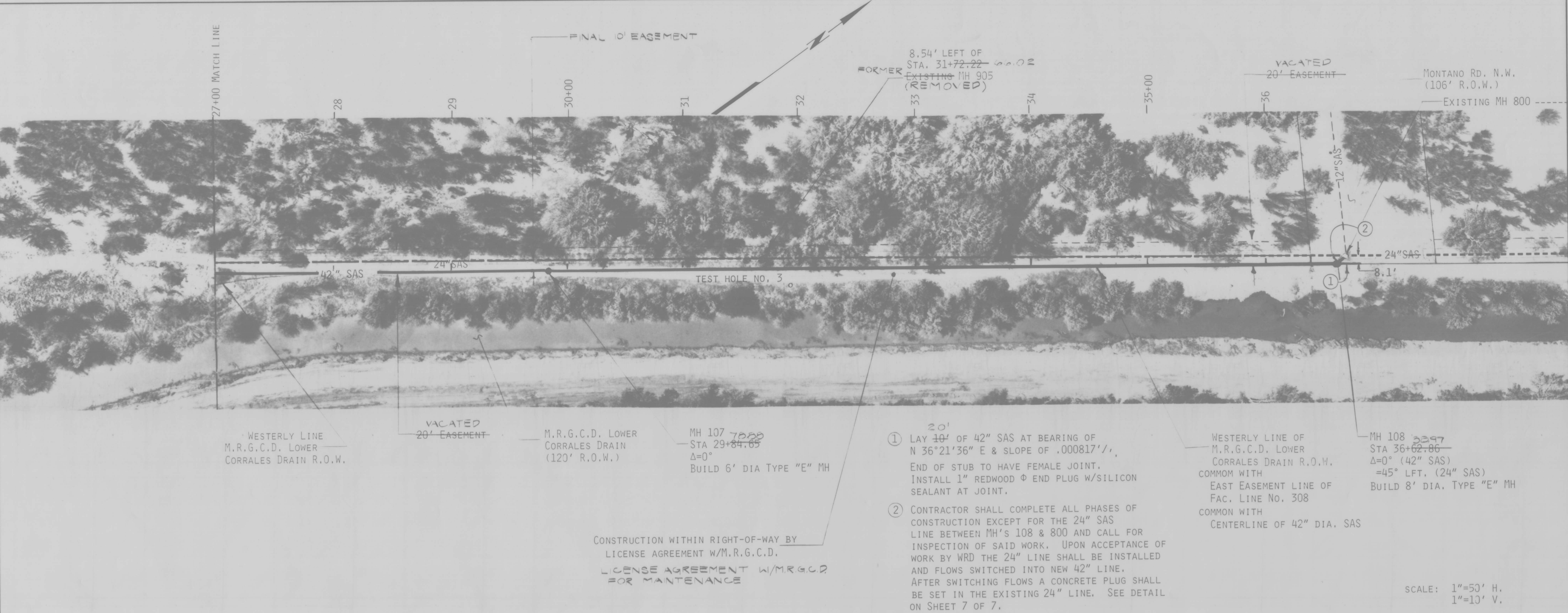
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: FACILITY LINE 308

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>DAH</i>	<i>19/1/83</i>	Liquid Waste	<i>N/A</i>	<i>10-19-83</i>
A.C.E.-Design	<i>Helich</i>	<i>26/8/83</i>	Traffic	<i>HA [Signature]</i>	<i>10/19/83</i>
A.C.E.-Hydrology	<i>N.A. [Signature]</i>	<i>10/10/83</i>	Water	<i>Bui - Puri</i>	<i>10-19-83</i>

DRAWING NO.	1873	MAP NO.	F-12	SHEET	5	OF	7
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DATE OF PHOTOGRAPHY 5-4-83



NEW MEXICO STATE PLANE COORDINATE SYSTEM
CENTRAL ZONE
ALL COORDINATES ARE MODIFIED TO GROUND
GROUND TO GRID FACTOR : 0.999679175
Y = 1,509,811.943
X = 370,891.338

SEWER LINE COURSES			
FROM MH	TO MH	BEARING	DISTANCE (FT)
106	107	N 36°21'36" E	685.00
107	108	N 36°21'36" E	678.21
108	800	N 08°37'06" W	11.45
AS-BUILT			
106	107	N 36°07'36" E	685.27
107	108	N 36°32'08" E	660.09
108	800	SEE DETAIL CHT 70F 7	

LINE ABANDONMENT
AFTER THE NEW 42" SAS IS INSPECTED, APPROVED AND IN SERVICE, THE OLD 24" SAS SHALL BE ABANDONED. RIMS SHALL BE RETURNED TO THE CITY YARDS AND A COPY OF THE WRITTEN RECEIPT SUBMITTED TO THE W.R.D.'S PROJECT ENGINEER. THE ABOVE GROUND BEEHIVE STRUCTURE OF MH 905 SHALL BE DEMOLISHED AND REMOVED. MANHOLE SHALL THEN BE PLUGGED. THAT PORTION OF THE ABANDON 24" SAS LINE TO THE SOUTH OF MH 800 SHALL BE REMOVED WHERE IT IS IN CONFLICT WITH THE NEW 42" LINE.

TRIMMING OF TREES & BUSHES
NO TREES ARE TO BE REMOVED. CONTRACTOR MAY TRIM ONLY THOSE OVERHANGING BRANCHES IN THAT VERTICAL SPACE OVER THE PERMANENT EASEMENT. THOSE TREE LIMBS CUT HAVING A DIAMETER OVER ONE (1) INCH SHALL BE SEALED WITH THE APPROPRIATE SEALING COMPOUND TO PREVENT TREE DISEASE. INCIDENTAL WORK ITEM. NO SEPARATE PAYMENT WILL BE MADE. BUSH REMOVAL SHALL BE KEPT TO A MINIMUM AND ONLY WITHIN THE AREA OF THE PERMANENT EASEMENT.

TEST HOLES
TEST HOLES ARE FOR THE CONTRACTOR USE DURING THE BIDDING PROCESS TO AID IN DETERMINING THE WATER TABLE DEPTH.

AS BUILT FOLLOWING

PROJECT NO. 1873

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: FACILITY LINE 308

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	CH	10/1/83	Liquid Waste	NIA	10/1/83
A.C.E.-Design	gh	26 Oct 83	Traffic	NA	10/1/83
A.C.E.-Hydrology	NA	10/1/83	Water	Brian Pung	10/1/83
QA	MRO/ha	10/16/83			

DRAWING NO. 1873 MAP NO. E-12 SHEET 6 OF 7

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	COOK CONSTRUCTION CO.	N. RIM MH 905	ELEV = 4977.45	NO.	163		
WORK SUPERVISING	STANLEY SERVICES	RIM MH 800	ELEV = 4977.99	DATE	2/82		
INSPECTORS	WRD	ASC BM #3=E12, TOP OF "T" RAIL R/W MARKER		BY	S.D.G.	REMARKS	
FIELD SUPERVISING	DATE 5-84	STA 267+50, ±100' NE OF CORNER COORS & MONTANO		DATE			
VERIFICATION BY SEE	DATE 5-84	ELEV = 5005.143		DESIGNED BY	TOI	DATE	6/83
CORRECTED BY	DATE			DRAWN BY	NAF	DATE	6/83
MICRO-FILM INFORMATION	RECORDED BY	NO		CHECKED BY	FCA	DATE	6/83

