CONSTRUCTION PLANS FOR THE DEVELOPMENT OF

LOS DURANES SANITARY SEWER FACILITIES PHASE I

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT

ALBUQUERQUE SEAL NEW MEXICO 1706

·LEGEND·

MATERIALS
- CONCRETE
- RIP·RAP

LINES
- SUBDIVISION BOUNDARY
- PROPERTY LINE (PLAN)
- PROPERTY LINE (SECTION)
- CENTERLINE
- EASEMENT LINE
- MATCH LINE
- SECTION CUT LINE (A — A)

EARTHWORK
	EXISTING	NEW
CONTOUR LINE	25	25
SPOT ELEVATION		
PROJECT / PHASE BOUNDARY		
SWALE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES
- UNDERGROUND CABLE TV (UC)
- GAS LINE (G)
- UNDERGROUND TELEPHONE (UT)
- UNDERGROUND ELECTRICAL (UE)
- STORM DRAIN (SD)
- STORM DRAIN MANHOLE
- STORM DRAIN INLET

SANITARY SEWER
- SANITARY SEWER LINE (SAS)
- SANITARY SEWER MANHOLE
- SAS SERVICE CONNECTIONS
- SAS CAP OR PLUG
- ENCASEMENT

WATER
- WATER LINE (W)
- WATER SERVICE CONNECTIONS
- GATE VALVE
- FIRE HYDRANT
- BUTTERFLY VALVE
- REDUCER
- WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS
- CAPS AND PLUGS
- ELBOW
- CROSS
- TEE

MISCELLANEOUS
- CHAINLINK FENCE
- FIELD FENCE
- COMMON YARD WALL
- RETAINING WALL
- POWER OR TELEPHONE POLE

VICINITY MAP — H-12 & J-12
SCALE: 1" = 800'

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6.	DURANES ROAD N.W.		
7.	DURANES ROAD N.W. SERVICE ROAD	STA. 13+00 TO STA. 18+00	COLLECTOR & FORCE MAIN
NIC	~~8. SERVICE ROAD~~	~~STA. 18+00 TO STA. 29+40.77~~	COLLECTOR, FORCE MAIN & INTERCEPTOR
NIC	~~9. SERVICE ROAD~~	~~STA. 29+40.77 TO STA. 37+50~~	COLLECTOR & INTERCEPTOR
NIC	~~10. SERVICE ROAD~~	~~STA. 37+50 TO STA. 40+70.39~~	~~INTERCEPTOR~~
NIC	~~11. BEACH ROAD~~	~~STA. 9+90 TO STA. 26+37.40~~	~~COLLECTOR & INTERCEPTOR~~
	~~GABALDON ROAD N.W.~~	~~STA. 10+00 TO STA. 14+16.68~~	~~INTERCEPTOR~~
NIC	~~12. LOS ANAYAS ROAD N.W.~~	~~STA. 9+90 TO STA. 21+00~~	~~INTERCEPTOR~~
NIC	~~13. LOS ANAYAS ROAD N.W.~~	~~STA. 21+00 TO 26+39.58~~	~~COLLECTOR~~
NIC	~~14. CARLOTA ROAD N.W.~~		~~COLLECTOR~~
NIC	~~15. CAMILO LANE N.W.~~		~~COLLECTOR~~
NIC	~~16. RICARDO ROAD N.W.~~		~~COLLECTOR~~
NIC	~~17. PRIVATE DRIVE~~		~~COLLECTOR~~
NIC	~~18. TRAILER PARK ROAD~~		~~COLLECTOR~~
NIC	~~DURANES ROAD N.W.~~		
19.	GABALDON PLACE	STA. 9+89.91 TO STA. 26+15	REHABILITATION
20.	PARK PATH & SERVICE ROAD	STA. 34+10 TO STA. 37+80	COLLECTOR
		STA. 9+73 TO STA. 13+00	COLLECTOR
21.	PARK PATH	STA. 24+78 TO STA. 34+00	INTERCEPTOR
△ 21A	PARK PATH (NEW DWG.) △	STA. 11+48 TO STA. 21+20	INTERCEPTOR
△ 21B	PARK PATH (NEW DWG.) △	STA. 21+20 TO STA. 24+78	INTERCEPTOR
NIC 22.	PARK PATH	STA. 10+00 TO STA. 21+20	INTERCEPTOR
NIC	~~23. LOS ANAYAS ROAD N.W.~~	~~STA. 29+97 TO STA. 36+88~~	~~COLLECTOR~~
	~~BEACH ROAD N.W.~~	~~STA. 30+00 TO STA. 42+26.30~~	~~REHABILITATION N.I.C.~~
NIC	~~24. FLORAL ROAD N.W.~~		~~REHABILITATION~~
25.	NOT USED		
26.	NOT USED		

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34D STRUCTURAL	DIAGRAMS
38. MECHANICAL	
39. ELECTRICAL	
40. ELECTRICAL	
41. ELECTRICAL	
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△ AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen — 08-04-88 Date
NMEE #8547

REGISTERED PROFESSIONAL ENGINEER — JEFFREY G. MORTENSEN — NEW MEXICO — 8547

APPROVAL OF AS BUILT DRAWINGS — CHIEF CONSTRUCTION ENGINEER — DATE 9/5/

26 2986018 2

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
△	1, 6, 7, 18, 19, 20, 21, 21A + 21B						
△	7, 19, 27						
△	27, 34A, 39 & 40		11/25/86				

APPROVAL OF REVISIONS

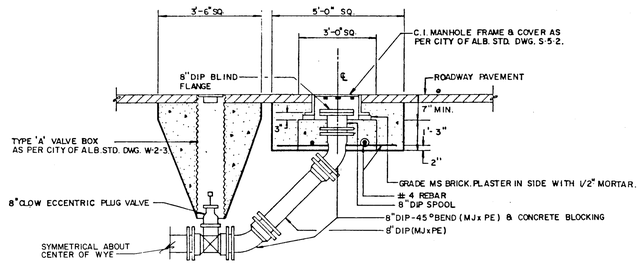
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — THOMAS A. HANK, JR. — 3792 — NEW MEXICO

TONN/MANN/ASSOCIATES INC. — 811 DALLAS, N.E. — ALBUQUERQUE · NEW MEXICO · 87110 — ENGINEERS

APPROVED FOR CONSTRUCTION — 10/31/86 — CITY ENGINEER

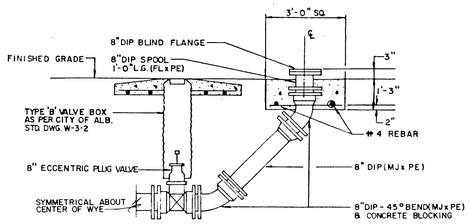
2986

SHEET 1 OF 41



CLEANOUT IN PAVED AREA

DETAIL D / 6
NO SCALE:



CLEANOUT IN UNPAVED AREA

DETAIL C / 7
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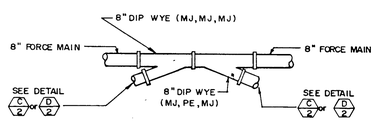
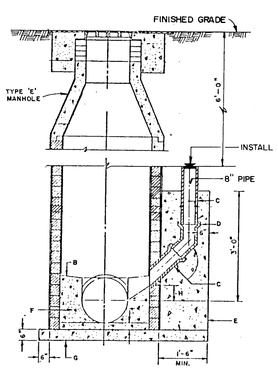


PLAN VIEW

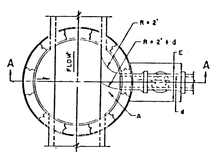
DETAIL I / 6,7
NO SCALE

CONSTRUCTION NOTES

A. FORM PIPE INVERT IN SHELF.
B. SLOPE, 1" PER FT.
C. USE D.I. OR P.V.C. PIPE THROUGHOUT DROP.
D. USE BELL AND SPIGOT 45° SHORT OR LONG RADIUS BEND.
E. CONC. SUPPORT WIDTH EQUALS PIPE O.D. PLUS 6" MIN. EACH SIDE.
F. CONC. FILL TO BE TYPE II CEMENT.
G. BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' DEEP.
H. 4" ABOVE SPRING LINE OR AS SHOWN ON PLAN.



SECTION A-A

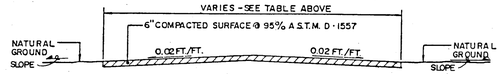


FLOOR PLAN

SPECIAL DROP MANHOLE

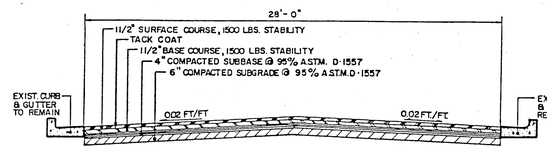
DETAIL J / 8,10,22

STREET NAME	SECTION	WIDTH
GABALDON ROAD	E-E	28'-0"
DURANES ROAD (SHEET 6)	A-A	24'-0"
SERVICE ROAD	B-B	20'-0"
NIC ~~BEACH ROAD~~	A-A	20'-0"
NIC ~~LOS ANAYAS ROAD~~	A-A	13'-6"
NIC ~~CARLOTA ROAD~~	B-B	20'-0"
NIC ~~CAMILO LANE~~	A-A	20'-0"
NIC ~~RICARDO ROAD~~	B-B	20'-0"
NIC ~~PRIVATE DRIVE~~	B-B	20'-0"
TRAILER PARK ROAD	B-B	20'-0"
NIC ~~DURANES ROAD (SHEET 10)~~	E-E	28'-0"
NIC ~~FLORAL ROAD~~	E-E	28'-0"
JOGGING PATH	F-F	12'-0"
GABALDON PLACE	A-A	24'-0"

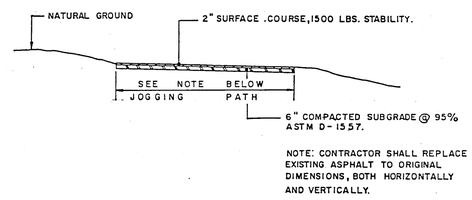


NOTES:
1. CONTRACTOR SHALL REPLACE ROADWAY TO ORIGINAL DIMENSIONS VERTICALLY.
2. FOR SERVICE ROAD USE 0.02 FT./FT. SLOPE TOWARD ALBUQ. RIVERSIDE DRAIN W/NO CROWN.

GRADED ROADWAY
TYPICAL SECTION B-B
NO SCALE:

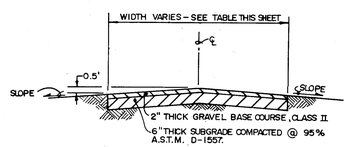


SECTION E-E
SCALE: 1" = 5'-0"



NOTE: CONTRACTOR SHALL REPLACE EXISTING ASPHALT TO ORIGINAL DIMENSIONS, BOTH HORIZONTALLY AND VERTICALLY.

SECTION F-F
NO SCALE:



SECTION K-K
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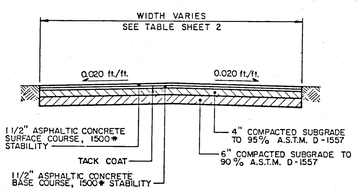
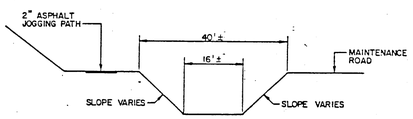


SECTION A-A
NO SCALE



TYPICAL CHANNEL CROSS-SECTION
SECTION H-H
SCALE: 1" = 20'

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1985 EDITION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS) AND THE SUPPLEMENTAL SPECIFICATIONS FOR THIS PROJECT.
2. TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN ANY PART OF THE PROJECT AREA, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION. TO PRESERVE PRIVATE PROPERTY AND EXISTING VEGETATION, THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS. VEGETATION WHICH IS DISTURBED OUTSIDE OF THE CONSTRUCTION LIMITS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
6. THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT PRIOR TO CONSTRUCTION IN GABALDON ROAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS FROM THE COUNTY ROAD DEPARTMENT.
7. THE APPROXIMATE LOCATION, SIZE AND MATERIAL OF EXISTING UTILITIES IS SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES.
9. DURING THE IRRIGATION SEASON, MARCH 1 TO NOVEMBER 1, THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (MRGCD) DRAINAGE DITCH SHALL BE LEFT FULLY OPERABLE UNLESS WRITTEN PERMISSION OF THE MRGCD AND THE BUREAU OF RECLAMATION IS OBTAINED.
10. THE CONTRACTOR SHALL NOTIFY THE MRGCD AND THE BUREAU OF RECLAMATION AT LEAST FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN THE MRGCD RIGHT-OF-WAY AND/OR THE BUREAU OF RECLAMATION EASEMENT.
11. THE INTERCEPTOR LINE ("SERVICE ROAD" AND "PARK PATH") IS LOCATED IN THE MRGCD RIGHT-OF-WAY AND THE BUREAU OF RECLAMATION EASEMENT, AND SHALL BE SUBJECT TO INSPECTION BY THE BUREAU OF RECLAMATION. TWENTY-FOUR (24) HOURS BEFORE STARTING CONSTRUCTION IN THIS AREA, CONTACT THE ENGINEERING DIVISION UPPER RIO GRANDE BASIN PROJECT OFFICE 766-3381, AND THE DISTRICT ENGINEER, MIDDLE RIO GRANDE CONSERVANCY DISTRICT OFFICE, 243-6796, TO ARRANGE FOR INSPECTION OF CONSTRUCTION.
12. THE RIVERSIDE DRAIN SHALL BE RESTORED TO THE ORIGINAL CONDITION, TO THE SATISFACTION OF THE MRGCD AND THE BUREAU OF RECLAMATION.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSAL OF GROUNDWATER FROM THE DEWATERING OPERATION. UPON POSTING A DAMAGE DEPOSIT WITH THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (MRGCD), THE CONTRACTOR WILL BE PERMITTED TO DISPOSE OF GROUNDWATER IN THE MRGCD "CLEAR DITCH." THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED TO MRGCD'S IRRIGATION SYSTEM, INCLUDING, BUT NOT LIMITED TO, THE BUILD-UP OF SAND IN THE DITCH AS A RESULT OF THE DEWATERING ACTIVITIES AND DAMAGE CAUSED BY THE CONSTRUCTION.
14. WHERE EXISTING FACILITIES REQUIRE TEMPORARY REMOVAL DUE TO CONSTRUCTION, A NEW FACILITY WILL BE REINSTALLED AT THE SAME GRADE, DIMENSIONS AND QUALITY AS THE ORIGINAL, EXCEPT WHERE NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. FACILITIES SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
15. SANITARY SEWER SERVICE LINES NOT SHOWN IN THE CONTRACT DOCUMENTS MAY BE REQUIRED AFTER CONSTRUCTION COMMENCES. LOCATIONS SHALL BE AS DESIGNATED BY THE ENGINEER; COMPENSATION WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
16. WHEN EXISTING DRAINAGE PIPES, PUMP LINES AND EXISTING IRRIGATION DITCHES REQUIRE TEMPORARY REMOVAL DUE TO CONSTRUCTION, THEY WILL BE REINSTALLED IN KIND, AT THE SAME GRADES AND CROSS-SECTIONS AS THE ORIGINAL. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE.
17. ALL SANITARY SEWER SERVICE LINES SHALL BE 4" DIAMETER AND SHALL BE LAID AT 2% MINIMUM GRADE TO THE PROPERTY LINE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
18. A SUBSURFACE INVESTIGATION WAS CONDUCTED IN JANUARY, 1985. THE GROUNDWATER TABLE VARIES THROUGHOUT THE YEAR AND MAY VARY SIGNIFICANTLY FROM THAT WHICH IS INDICATED ON THE DRAWINGS.
19. AERIAL PHOTOGRAPHS WERE TAKEN IN OCTOBER, 1984.
20. MANHOLE OPENINGS SHALL BE PLACED DIRECTLY OVER THE MAIN SEWER LINE.
21. REMOVAL AND REPLACEMENT OF THE FULL WIDTH OF PAVEMENT WILL BE REQUIRED WHEN THE WIDTH OF THE PAVEMENT CUT IS EQUAL TO OR GREATER THAN ONE-THIRD OF THE EXISTING PAVEMENT WIDTH.
22. NEW SANITARY SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS, UNPAVED PRIVATE ROADS, UNPAVED PUBLIC STREETS, AND 6" ABOVE GRADE IN UNDEVELOPED AREAS. THIS WORK IS CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE.
23. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT AT LEAST FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN PARK PROPERTY.
24. EXISTING JOGGING PATH IS TO BE UNDISTURBED, EXCEPT WHERE NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. IF ANY DAMAGE OCCURS, THE JOGGING PATH SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
25. ALL STATIONING IS BASED ON BASELINE DISTANCES.
26. WHERE REMOVAL OF EXISTING CURB AND GUTTER IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
27. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
28. ALL MANHOLES SHALL BE 4-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING S-2. UNLESS OTHERWISE NOTED.
29. ALL DROP MANHOLES SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING S-4, UNLESS OTHERWISE NOTED.
30. EXISTING BARBED WIRE FENCE REMOVED DUE TO CONSTRUCTION SHALL BE REPLACED AS PER DETAIL H IN THE CONTRACT DRAWINGS. DURING CONSTRUCTION A TEMPORARY FENCE WILL BE INSTALLED AT THE SAME HEIGHT AS THE FENCE REMOVED. TEMPORARY FENCE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE. FENCE SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED, AS PER DETAIL H, BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
31. CONTRACTOR SHALL CONCRETE ENCASE THE SEWER PIPE 10 FEET EACH SIDE OF THE WATERLINE IF THE VERTICAL CLEARANCE DOES NOT EXCEED 1'-6" WHERE THE SEWER AND WATERLINES CROSS, AS PER CITY OF ALBUQUERQUE STANDARD DRAWING S-10.
32. ALL PAVEMENT AND DIRT ROADS WHICH ARE REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED AT THE SAME GRADE, ELEVATIONS AND CROSS-SECTION AS EXISTING.
33. EXISTING CHAIN LINK FENCE REMOVED DUE TO CONSTRUCTION SHALL BE REPLACED AT THE SAME GRADE, LOCATION DIMENSIONS AND QUALITY AS THE ORIGINAL, EXCEPT WHERE OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. DURING CONSTRUCTION A TEMPORARY FENCE WILL BE INSTALLED AT THE SAME HEIGHT AS THE FENCE REMOVED. TEMPORARY FENCE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE. FENCE SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
34. FORCEMAIN SHALL BE PVC PRESSURE PIPE, OR AS APPROVED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT.
35. UTILITIES REMOVED DUE TO CONSTRUCTION, THAT HAVE NOT BEEN DESIGNATED FOR REMOVAL, SHALL BE REPLACED AT THE SAME GRADE, LOCATIONS, DIMENSIONS AND QUALITY AS THE ORIGINAL. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE.
36. WHERE AN EXISTING WATER LINE IS TO BE REPLACED, AND AN EXISTING WATER SERVICE IS ENCOUNTERED, THE WATER SERVICE SHALL BE RECONNECTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
37. ALL VALVES ENCOUNTERED ON WATER LINES BEING REPLACED SHALL BE RE-INSTALLED WITH NEW VALVE BOX. A TYPE 'A' VALVE BOX SHALL BE INSTALLED IN PAVED AREAS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-2; A TYPE 'B' VALVE BOX SHALL BE INSTALLED IN UNPAVED AREAS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-3.
38. THE CONTRACTOR SHALL NOTIFY THE NEW MEXICO STATE HIGHWAY DEPARTMENT AT LEAST FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION AND AT THE COMPLETION OF CONSTRUCTION IN THE HIGHWAY RIGHT-OF-WAY.
39. CONSTRUCTION IN THE HIGHWAY RIGHT-OF-WAY SHALL BE SUBJECT TO INSPECTION BY THE NEW MEXICO STATE HIGHWAY DEPARTMENT DISTRICT HIGHWAY ENGINEER.
40. ANY DAMAGE CAUSED TO THE HIGHWAY RIGHT-OF-WAY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AS DETERMINED BY THE NEW MEXICO STATE HIGHWAY DEPARTMENT DISTRICT HIGHWAY ENGINEER.
41. INTERSTATE 40 SHALL NOT BE USED FOR PARKING OF CONSTRUCTION VEHICLES.
42. ALL MANHOLES SHALL BE PROVIDED WITH MANHOLE STEPS.

AS BUILT INFORMATION
CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR'S ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, "13-G12, 1987" IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4933.22 FT. (MSL D)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE	REMARKS	BY	DATE	NO.

ENGINEER'S SEAL
STATE OF NEW MEXICO — THOMAS T. GLASS, JR. — REGISTERED PROFESSIONAL ENGINEER — 6,20,88

BTI DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

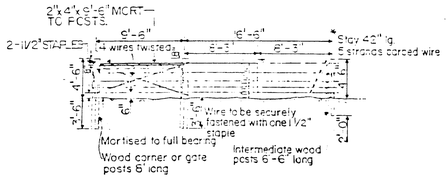
TITLE:
GENERAL NOTES, MISCELLANEOUS DETAILS

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

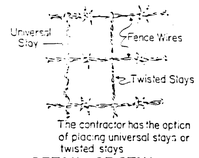
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

26 | 2986 | 0 | 38

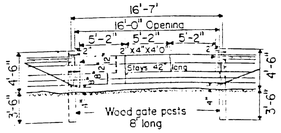
DRAWING NO. 2986 H&J-12
SHEET 2 OF 41



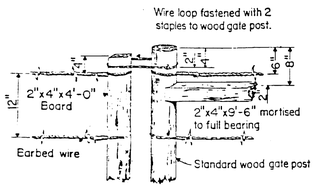
BARBED WIRE FENCE WITH WOOD POSTS



DETAIL OF STAY



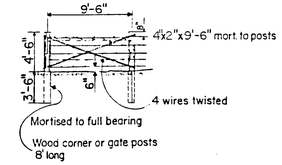
BARBED WIRE GATE



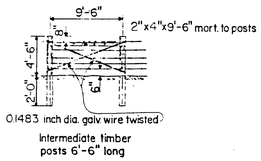
DETAIL OF WOOD GATE CATCH

NOTE:

1. Fence wire shall be placed on the field side of the posts except on the inside of curves. The spacing of barbed wires may be varied to fit field conditions when authorized by the engineer.
2. Unless otherwise provided, all posts shall be of the same type of material throughout the project.
3. End, intermediate, gate and corner braces to be of the length recommended by the manufacturer.

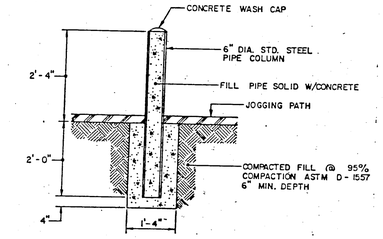


GATE CORNER OR END WOOD POST BRACE



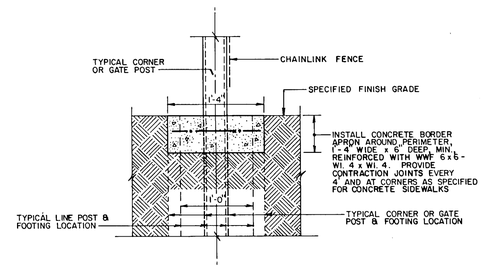
INTERMEDIATE WOOD POST BRACE

DETAIL H
NO SCALE



BOLLARD DETAIL

DETAIL G 21
SCALE: 1" = 2'-0"

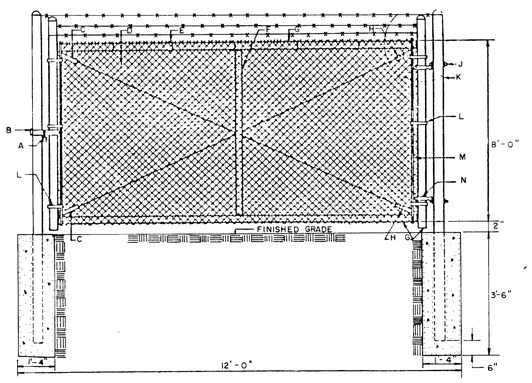


TYPICAL CONCRETE BORDER APRON

NOT TO SCALE

CONSTRUCTION NOTES

A. RIGHT-OF-WAY LINE.
B. ℄ SERVICE LINE.
C. MIN OF 4FT. FROM INVERT TO TOP OF CURB AT RIGHT-OF-WAY LINE.
D. ELECTRONIC MARKER DISC, COLOR CODED GREEN PLACED ONLY IF SERVICE HOOK-UP IS POSTPONED.
E. 22.5° OR 45° BEND.
F. SERVICE LINE, (C.I. SOIL PIPE, SERVICE WEIGHT).
G. PLUG.
H. GROUND LEVEL.
I. APPROX. 6" BUT DEPTH OF BURIAL SHALL NOT BE MORE THAN 6'.



STANDARD CHAIN LINK GATE

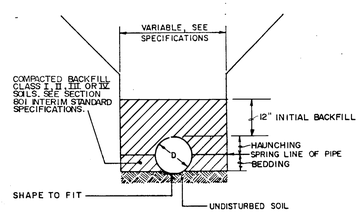
NO SCALE

GENERAL NOTES:

I. SPOT WELD OR UPSET THE THREADS ON NUTS AND BOLTS.

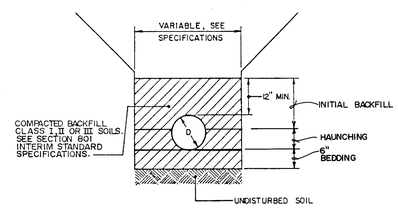
CONSTRUCTION NOTES:

A. PADLOCK(TO BE FURNISHED BY THE CITY)
B. GATE LATCH FOR PADLOCK.
C. 3/8" TRUSS ROD WELDED AT CORNER.
D. NO.6 GAUGE CHAIN LINK STEEL WIRE.
E. TIES AND TENSION BANDS AT 18" OR LESS.
F. WELDED BRACE.
G. 2" O.D. TUBING FRAME NO.069 WELDED
H. 3/8" THREADED TRUSS ROD AND BRACKET ATTACHMENT.
J. J BOLT 4" THREADED.
K. END POST, 4" O.D.
L. STEEL TENSION BANDS SPACED AT 18" OR LESS
M. STRETCHER BAR.
N. GATE CLAMP.



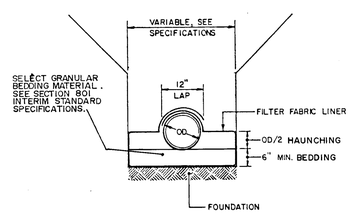
SUITABLE SOIL CONDITIONS
RIGID PIPE TRENCHING DETAIL

NO SCALE



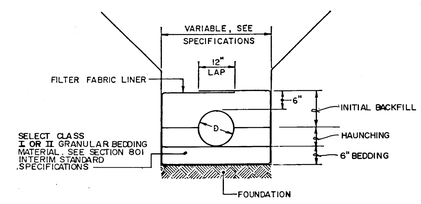
SUITABLE SOIL CONDITIONS
FLEXIBLE PIPE TRENCHING DETAIL

SCALE: 1" = 2'-0"



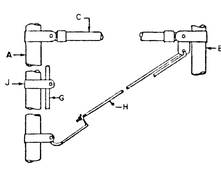
UNSUITABLE AND/OR UNSTABLE SOIL CONDITIONS
RIGID PIPE TRENCHING DETAIL

NO SCALE

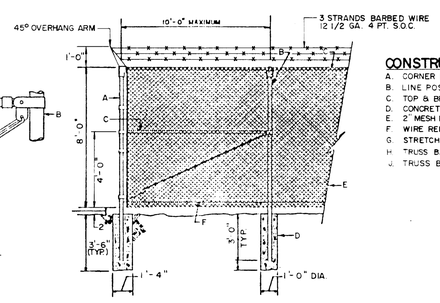


UNSUITABLE AND/OR UNSTABLE SOIL CONDITIONS
FLEXIBLE PIPE TRENCHING DETAIL

SCALE: 1" = 2'-0"



BRACE DETAIL



CONSTRUCTION NOTES:

A. CORNER POST 4" O.D.
B. LINE POSTS 2 3/8" O.D.
C. TOP & BRACE 1 5/8" O.D.
D. CONCRETE FOOTING
E. 2" MESH No. 6 GAGE WIRE GALVANIZED FABRIC
F. WIRE REINFORCEMENT, # 7 GA.
G. STRETCHER BAR - 1/4" x 3/4" FLAT
H. TRUSS BAR - 3/8" DIA.
J. TRUSS BAND

CHAIN LINK FENCE DETAILS

NO SCALE

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

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE:

MISCELLANEOUS DETAILS

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

DRAWING NO. 2986 | MAP NO. H8 & J-12 | SHEET 3 OF 41

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
ACCEPTANCE BY
FIELD DRAWING BY
CORRECTED BY
DATE

MICRO-FILM INFORMATION

RECORDED BY
DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4903.22 FT. (MSLD)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

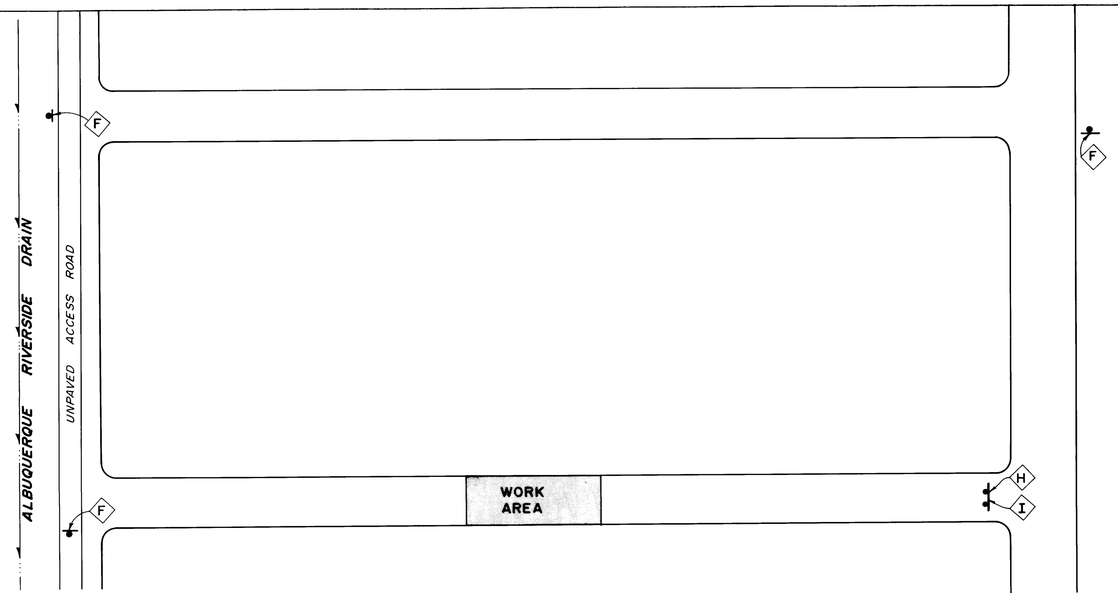
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS T. MINK, JR.
9-26-83

NO.	DATE	REMARKS	BY

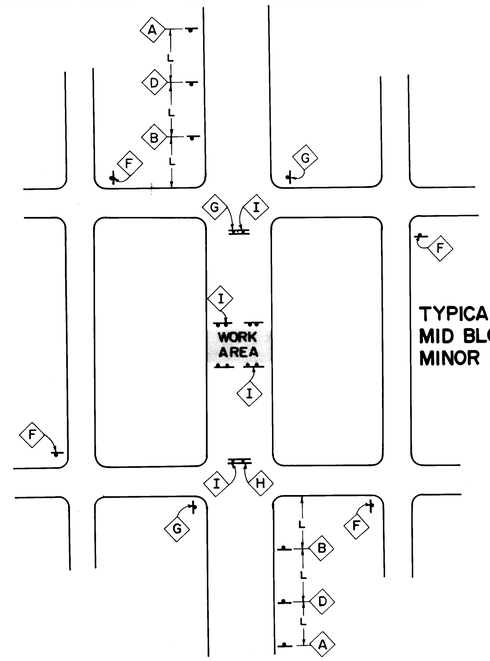
811 DALLAN N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

Parametrix, Associates

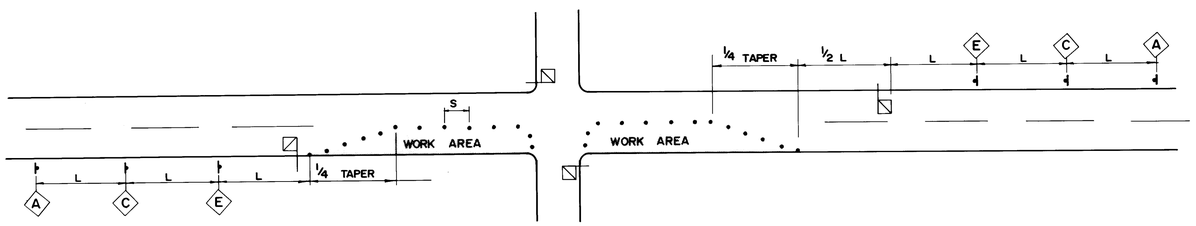
N29807



TYPICAL COLLECTOR LINE INSTALLATION



TYPICAL STREET CLOSURE
MID BLOCK
MINOR STREET ONLY

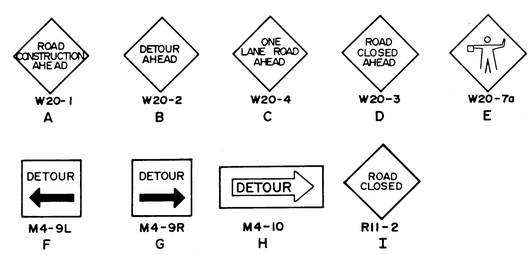


TYPICAL FLAGGING OPERATION

GENERAL NOTES

1. CONTRACTOR MUST COMPLY WITH SECTION 19 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR THE CITY OF ALBUQUERQUE.
2. CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENTS AT ALL TIMES. AN ESTIMATED 12 ACCESS SIGNS WILL BE REQUIRED DURING CONSTRUCTION. EACH ACCESS SIGN SHALL HAVE WHITE 5-INCH LETTERS ON A BLUE BACKGROUND.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSTING "NO PARKING" SIGNS WHERE EVER CONFLICT MIGHT EXIST BETWEEN PARKED VEHICLES AND CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING ABANDONED CARS REMOVED.
4. THE CONTRACTOR SHALL PROVIDE TEMPORARY ASPHALT RAMPS AS REQUIRED TO MAINTAIN A SMOOTH RIDING SURFACE OR AS REQUIRED TO MAINTAIN ACCESS.
5. INSTALLATION OF ALL LINES (STORM, SANITARY) SHALL BE ACCOMPLISHED USING BLOCK TO BLOCK CLOSURES. EXCAVATIONS SHALL NOT EXTEND FURTHER THAN 1000 FEET.
6. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.
7. TRAFFIC CONTROL SHALL BE CONSIDERED INCIDENTAL TO TRENCHING AND NO SEPARATE PAYMENT SHALL BE MADE THEREFORE.

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10 FOOT LANE	11 FOOT LANE	12 FOOT LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

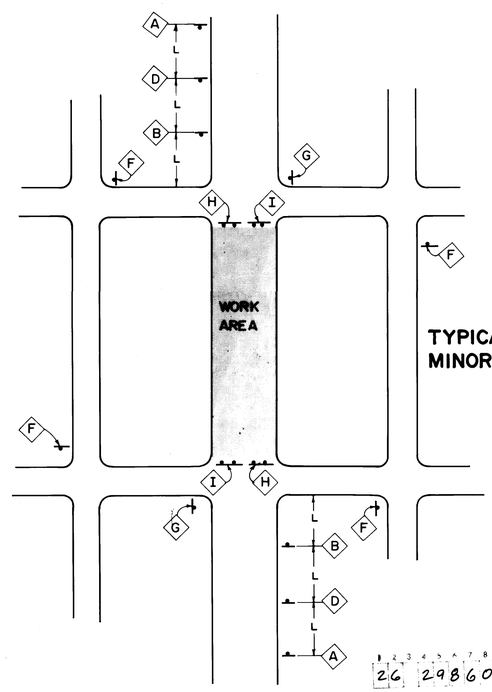


- BARRICADE - TYPE I, TYPE II, OR A BARREL
- SIGN
- VERTICAL PANEL
- BARRICADE - TYPE III

L = DISTANCE BETWEEN ADVANCE SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO TEN TIMES THE SPEED LIMIT

S = SPACING BETWEEN BARRICADES - MAXIMUM SPACING TO BE A VALUE MEASURED IN FEET EQUAL TO THE SPEED LIMIT

TANGENT - TANGENT LENGTH = TAPER LENGTH (SEE CHART)



TYPICAL STREET CLOSURE
MINOR STREET ONLY

1 2 3 4 5 6 7 8 9 10 11 12
2G 2986 0388A

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — STATE OF NEW MEXICO — THOMAS M. WIN, JR. — 9792

NO.	DATE	REMARKS	BY

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
TOM WIN ASSOCIATES, P.A.
ENGINEERS

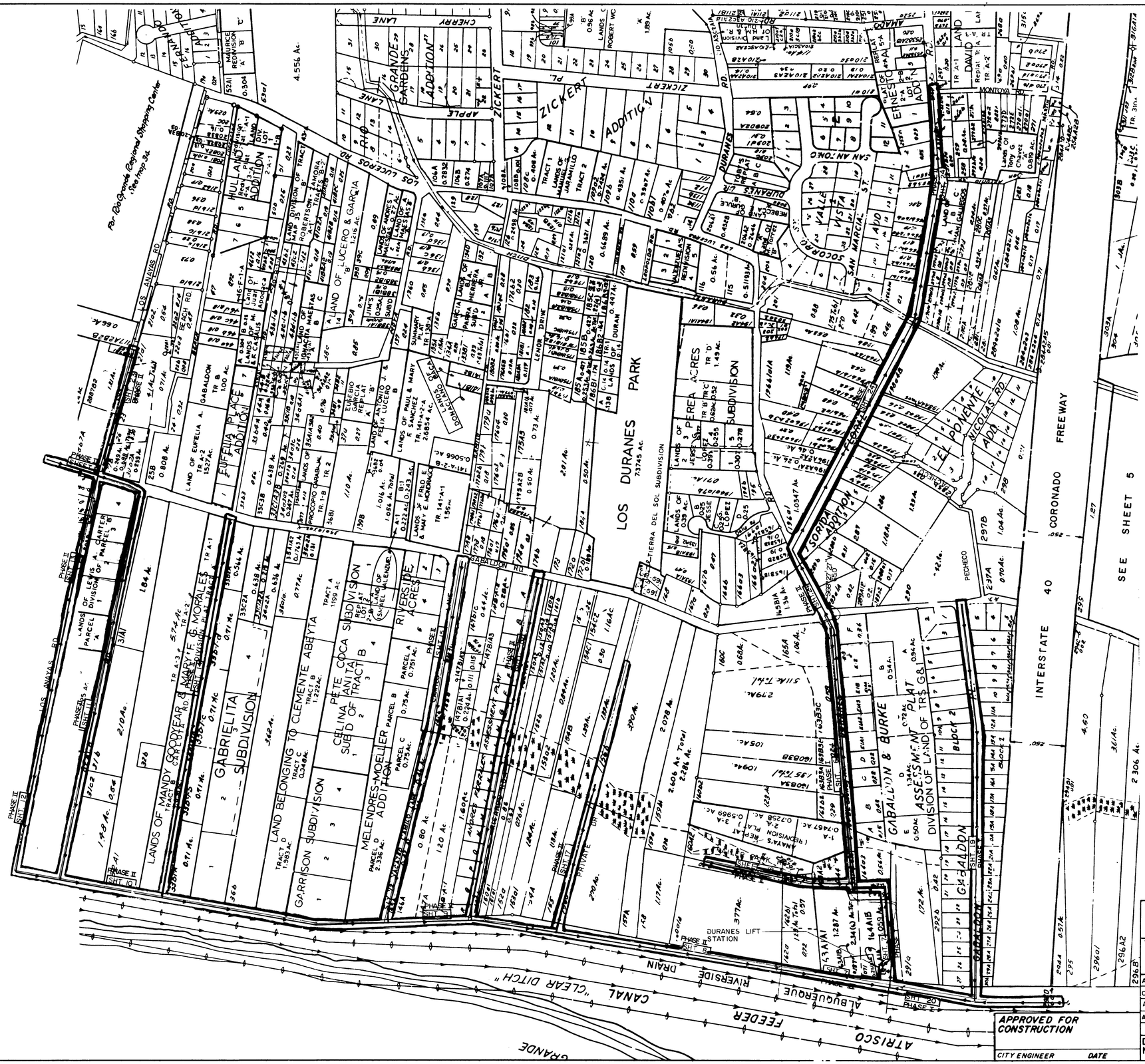
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: TRAFFIC CONTROL PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		10/31/86

DRAWING NO. 2986 SHEET 3-A OF 41

N0829A



SURVEY INFORMATION

NO.	BY	DATE	FIELD NOTES

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-G12", SET IN TOP OF CONCRETE POST PROJECTING 0.20 FT ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4923.22 FT. (MSL.D)

AS BUILT INFORMATION

CONTRACTOR		DATE
WORK STAKED BY		DATE
INSPECTORS ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM RECORDED BY		DATE
NO.		

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. WIGHTMAN

NO.	DATE	REMARKS	BY

BI DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - B.I.C.

CONSULTING ENGINEERS

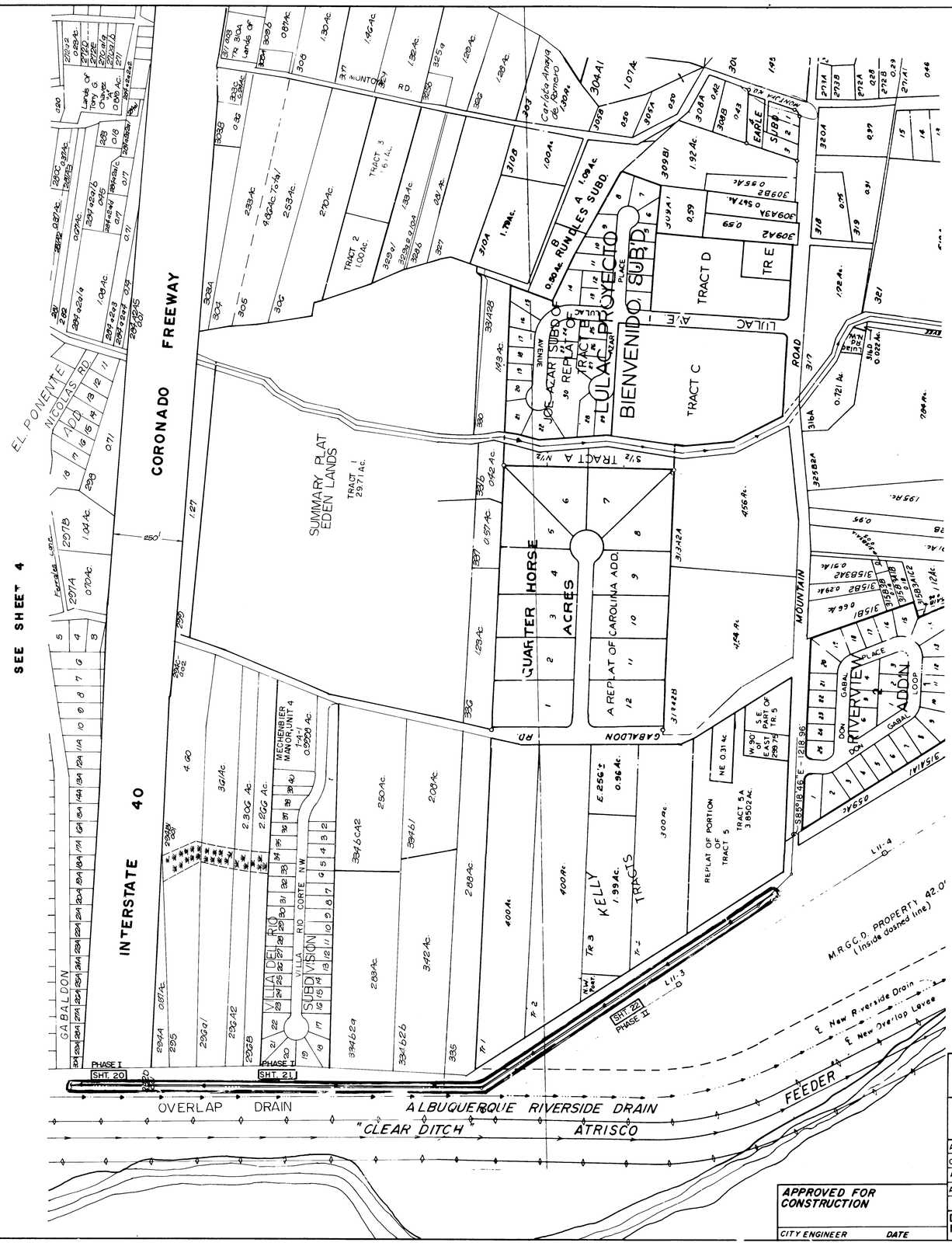
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SITE PLAN

MRGCD MAP NO. 34&35

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/31/86

DRAWING NO. 2986 | MAP NO. H8J12 | SHEET 4 OF 41



SCALE: 1" = 200'

LEGEND

- IMPROVEMENT LOCATIONS
- SANITARY SEWERLINE
- BASE LINE
- POINT OF INTERSECTION ON BASELINE
- REFERENCE TO CONSTRUCTION PLAN & PROFILE SHEET. SHT. 6

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION
FIELD NOTES			A STANDARD ACS BRASS TABLET, 1.5-0.12' SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W. ELEV. = 4903.22 FT. (M.S.L.D.)	CONTRACTOR
NO.	BY	DATE		WORK STAKED BY
				DATE
				INSPECTOR'S ACCEPTANCE BY
				DATE
				FIELD VERIFICATION BY
				DATE
				DRAWINGS CORRECTED BY
				DATE
				MICRO-FILM INFORMATION
				RECORDED BY
				DATE
				NO.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — CHARLES T. MUNN, JR. — 7752 — LAND SURVEYOR

NO.	DATE	REMARKS	BY

BOHANNAN-HUSTON INC. — 8101 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87109 — ENGINEERS

1 2 3 4 5 6 7 8 9 0 1

26 29860588

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **SITE PLAN**
MRGCD MAP NO. 34 & 35

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A C E - Design			Traffic		
A C E - Hydrology			Water		10/31/86

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

DRAWING NO.	MAP NO.	SHEET	OF
2986	H8 & J12	5	41

SCALE : 1" = 50'

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.
2. Baseline bearings are based upon the state plane coordinate system.

LEGEND

- ∘ FOUND CORNER
- PROPERTY LINE
- EASEMENT LINE
- SURVEY BASELINE
- (2) EASEMENT DOCUMENT NUMBER
- (71) TITLE SEARCH NUMBER

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — STATE OF NEW MEXICO — THOMAS C. MAINO — 3782

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

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LOS DURANES SANITARY SEWER FACILITIES RIGHT OF WAY MAPS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/85
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/31/85

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	5A	41

SCALE : 1"=50'

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.
2. Baseline bearings are based upon the state plane coordinate system.

LEGEND

∘	FOUND CORNER
— —	PROPERTY LINE
– – – –	EASEMENT LINE
——	SURVEY BASELINE
△	EASEMENT DOCUMENT NUMBER
(71)	TITLE SEARCH NUMBER

THOMAS P. MANN, JR.
3792
9-26-86

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

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

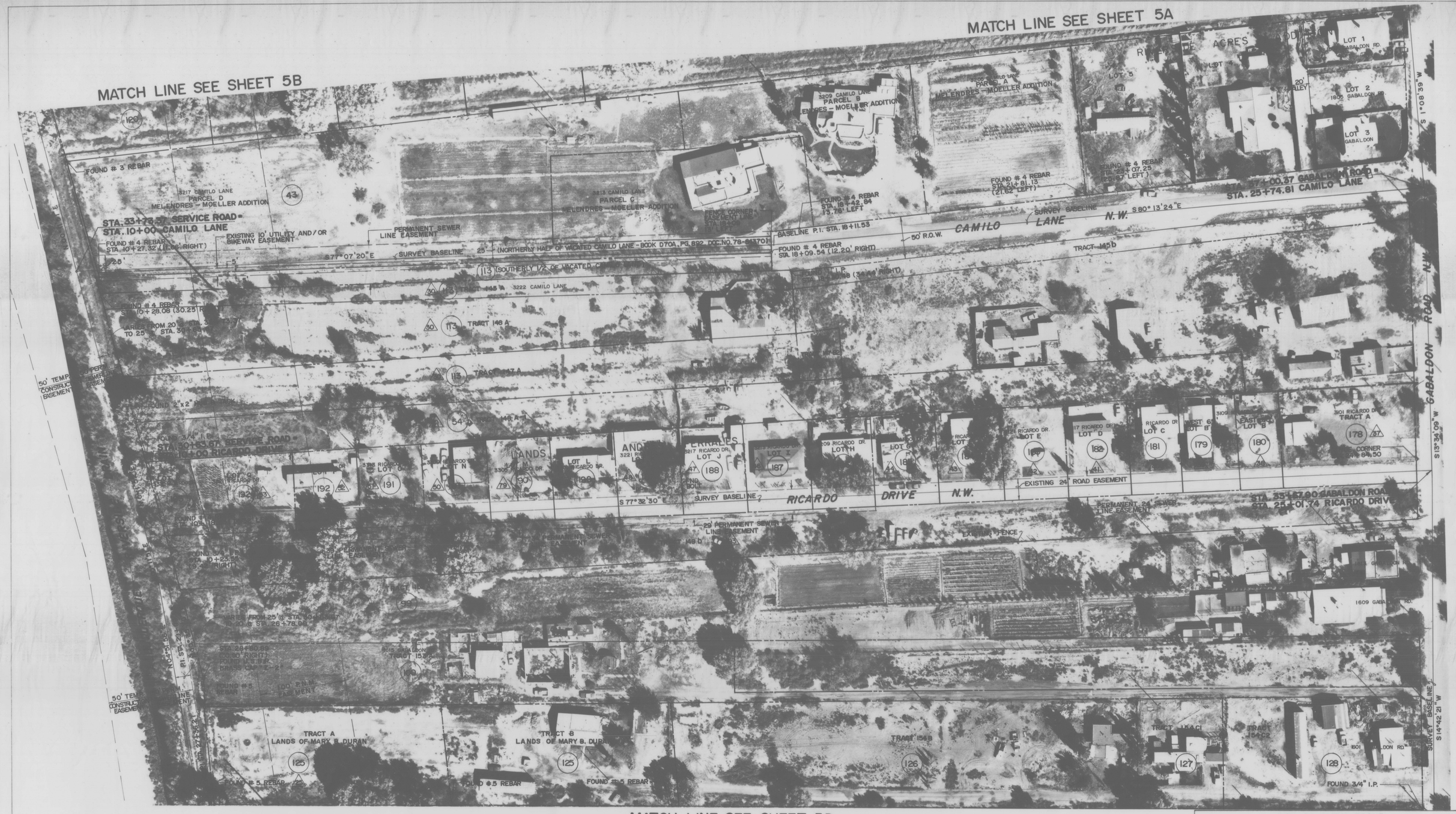
TITLE: LOS DURANES SANITARY SEWER FACILITIES
RIGHT OF WAY MAPS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/30/86
A C E - Design			Traffic		
A C E - Hydrology			Water		10/31/86

DRAWING NO. 2986 MAP NO. H-12 SHEET 5B OF 41

MATCH LINE SEE SHEET 5A

MATCH LINE SEE SHEET 5B



MATCH LINE SEE SHEET 5D

SCALE: 1" = 50'

LEGEND

- ○ FOUND CORNER
- PROPERTY LINE
- EASEMENT LINE
- SURVEY BASELINE
- △ EASEMENT DOCUMENT NUMBER
- (71) TITLE SEARCH NUMBER

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.
2. Baseline bearings are based upon the state plane coordinate system.

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — STATE OF NEW MEXICO — THOMAS L. MANNER — 3792 — 9-21

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

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LOS DURANES SANITARY SEWER FACILITIES RIGHT OF WAY MAPS

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

DRAWING NO 2986 | MAP NO. H-12 | SHEET 5C OF 41

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.

2. Baseline bearings are based upon the state plane coordinate system.

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

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

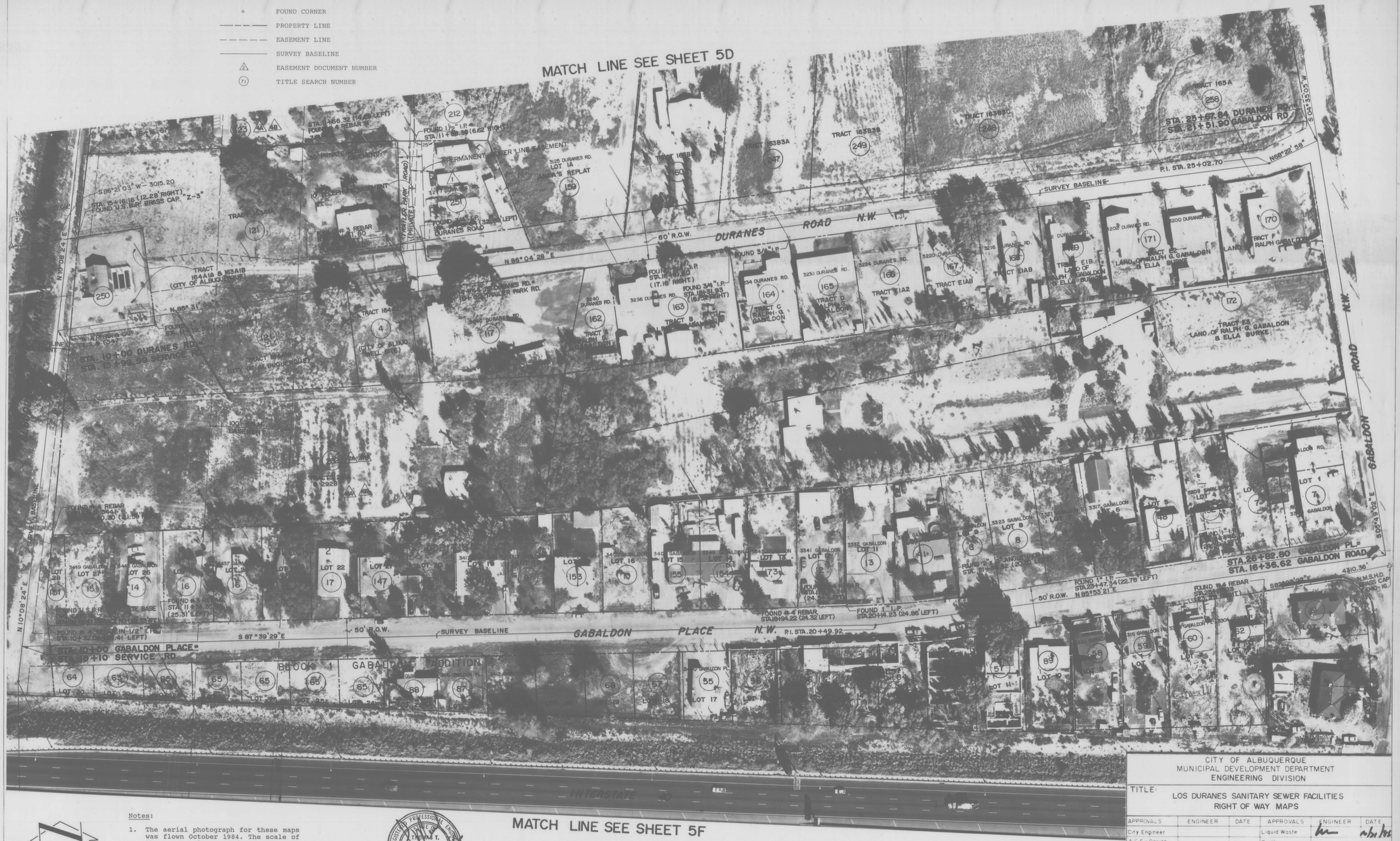
TITLE: LOS DURANES SANITARY SEWER FACILITIES RIGHT OF WAY MAPS

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	5D	41

LEGEND

- FOUND CORNER
- PROPERTY LINE
- EASEMENT LINE
- SURVEY BASELINE
- EASEMENT DOCUMENT NUMBER
- TITLE SEARCH NUMBER



MATCH LINE SEE SHEET 5F

SCALE: 1" = 50'

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.
2. Baseline bearings are based upon the state plane coordinate system.

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — THOMAS T. MANN, JR. 3792 — NEW MEXICO

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

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LOS DURANES SANITARY SEWER FACILITIES RIGHT OF WAY MAPS

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

DRAWING NO	MAP NO.	SHEET	OF
2986	H-12	5E	41

LEGEND

- ∘ FOUND CORNER
- PROPERTY LINE
- EASEMENT LINE
- SURVEY BASELINE
- EASEMENT DOCUMENT NUMBER
- (71) TITLE SEARCH NUMBER

Notes:

1. The aerial photograph for these maps was flown October 1984. The scale of these maps is approximate only and should not be relied upon for accuracy of scale.
2. Baseline bearings are based upon the state plane coordinate system.

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — STATE OF NEW MEXICO — THOMAS P. MANNOR JR. — 3798

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

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

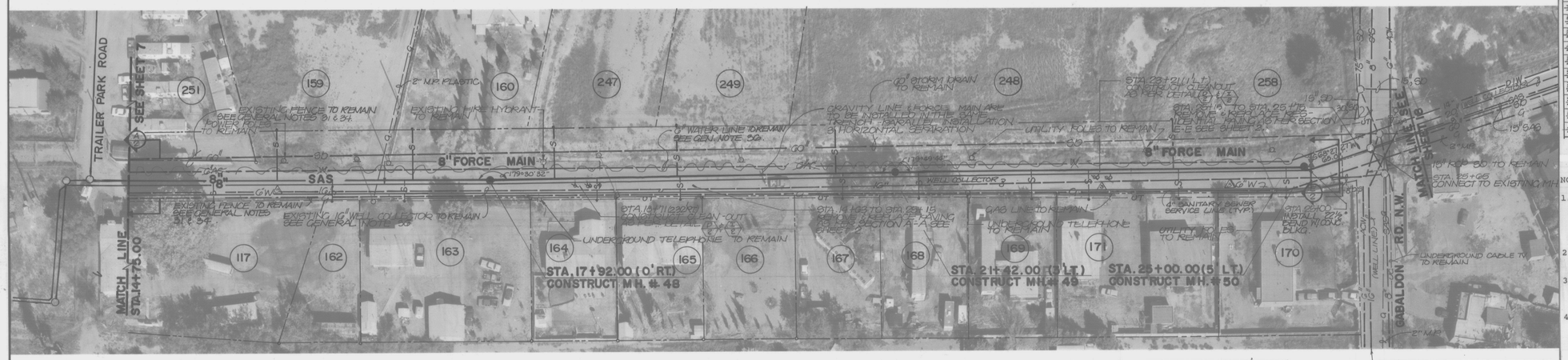
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: LOS DURANES SANITARY SEWER FACILITIES RIGHT OF WAY MAPS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A C E - Design			Traffic		
A C E - Hydrology			Water		10/31/86

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 5F OF 41

AF 22440B



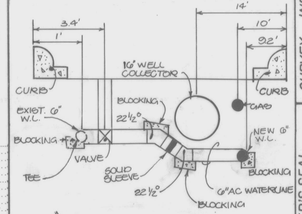
NOTE: THE EXISTING 6" AC WATERLINE HAS ABANDONED IN PLACE. A NEW 6" PVC WATERLINE WAS INSTALLED ON THE SOUTH SIDE OF DURANES RD. AS SHOWN.

FIELD VERIFIED 16" WELL LOCATED WEST SIDE OF 6" WATERLINE. (NO DISTANCE TO PROPERTY LINE RECORDED)

SEWER SERVICE DATA			
Sta	Pipe length (incl. riser)	Inv. @ P.L.	Inv. @ Main
~~16+00 15+45 RT~~	25'	4951.3	4950.8
~~16+87 16+67 LT~~	50'	4951.5	4950.6
~~16+99.67 16+56 RT~~	25'	4951.3	4950.8
~~17+16 17+16 RT~~	25'	4951.5	4951.0
~~17+26 17+26 LT~~	50'	4951.5	4950.6
~~18+28 18+18 LT~~	50'	4952.0	4951.1
~~18+80 18+80 RT~~	25'	4952.0	4951.5
~~19+40 19+40 LT~~	50'	4952.2	4951.3
~~19+80 19+80 RT~~	25'	4952.2	4951.7
~~20+50 20+50 LT~~	50'	4952.5	4951.6
~~20+87 20+95 RT~~	25'	4952.5	4952.0
~~21+63 21+63 RT~~	25'	4952.5	4952.0
~~22+55 22+55 RT~~	25'	4953.0	4952.5
~~23+05 23+05 RT~~	25'	4953.3	4952.8
~~23+83 23+83 LT~~	50'	4954.3	4953.5
~~24+85 23+85 RT~~	25'	4954.0	4953.5
~~24+80 RT~~	25'	4954.5	4954.0

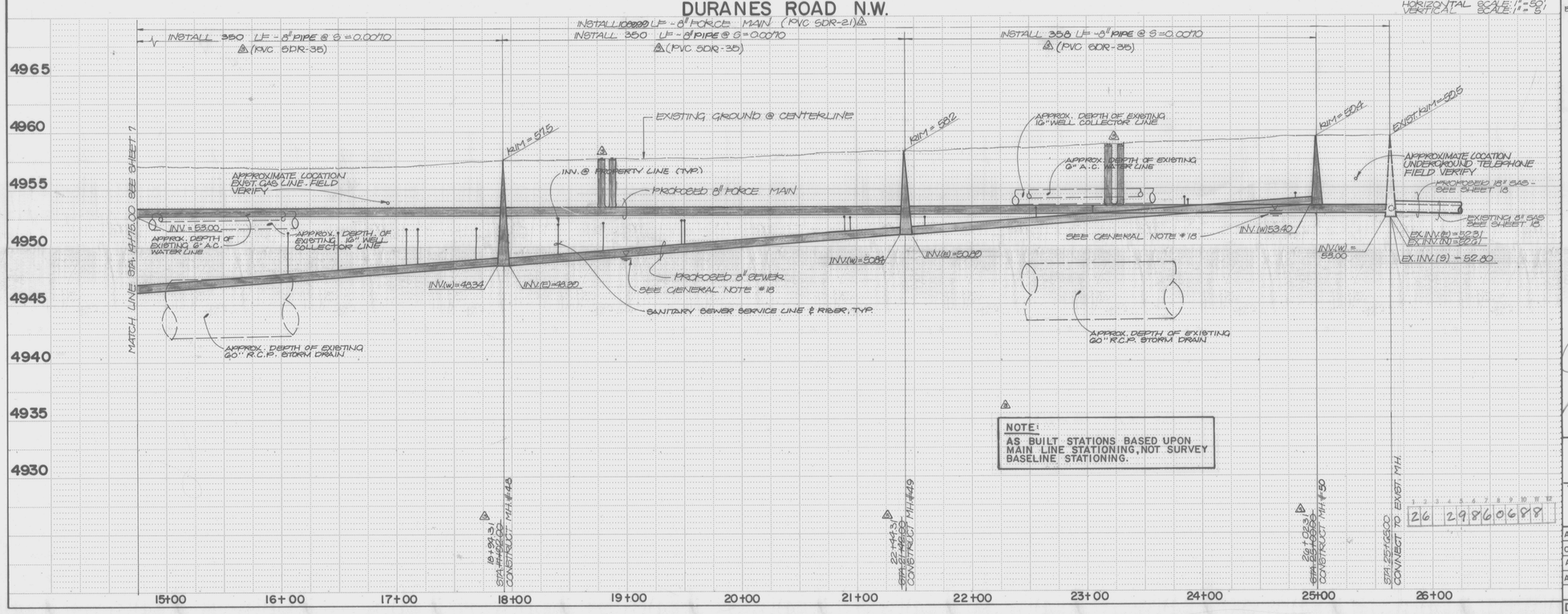
NOTES:

1. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR SHALL LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MIN.).
2. DEPTH OF SERVICE LINES MAY HAVE TO BE FIELD ADJUSTED DEPENDING UPON THE AS-BUILT LOCATION OF THE WATER LINE.
3. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.
4. SANITARY SEWER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STD. DWG. S-9, AND APPROPRIATE RISER DETAIL S-7 OR S-8.



CROSS-OVER TIE-IN 6" WATERLINE

N.T.S.



NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen 08-04-88
NMPE/ #8547 Date

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6/85	AS-BUILT	G.K.S.

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, 3-1/2" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (MSL D.)

SURVEY INFORMATION

NO.	DATE	FIELD NOTES BY

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MAINE, JR. — 9-26-88

811 DALLAS N.E. • ALBUQUERQUE • NEW MEXICO • 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
DURANES RD. N.W. STA. 14+75 TO STA. 25+65

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

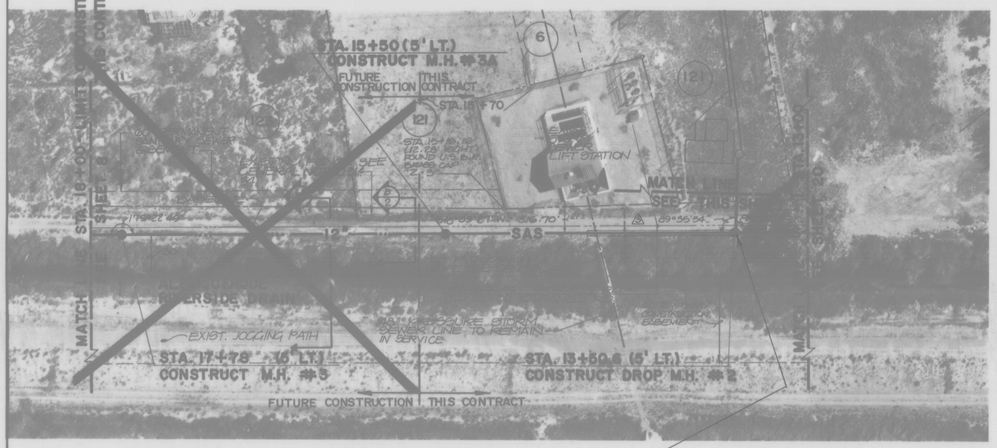
DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	6	41

2 6 2 9 8 6 0 6 8 8

RECORD DRAWING

PHOTOGRAPHY & REPRODUCTION BY KOOGLE & POULS ENGINEERING 8339A COMANCHE N.E., ALBUQUERQUE, N.M. 87110

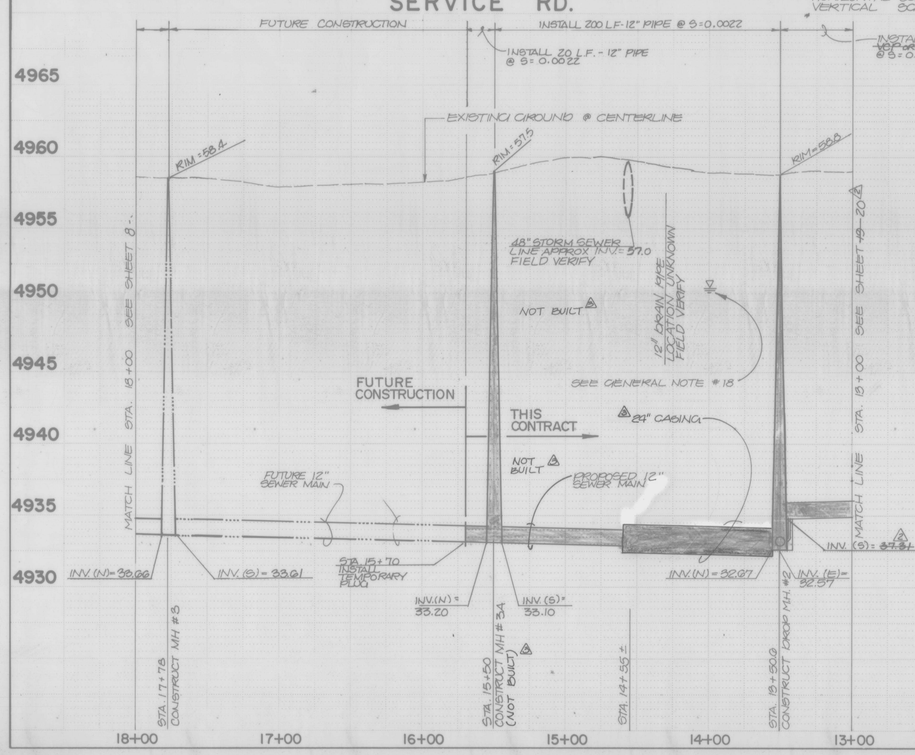
AF 22440B



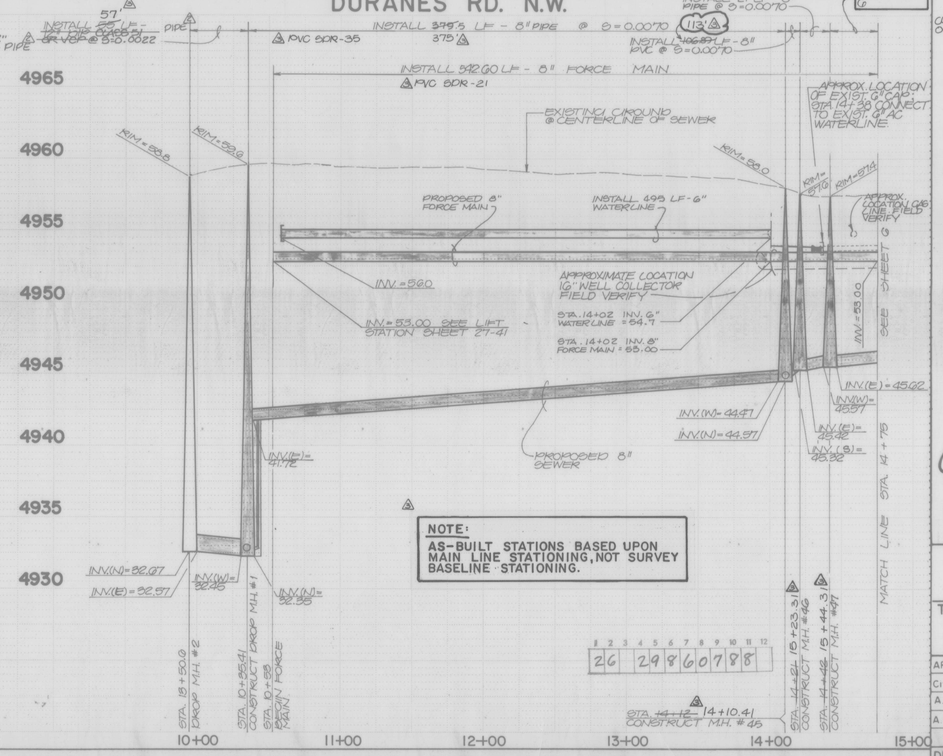
FOR 12" SEWER LINE EXTENSION TO THE NORTH OF M.H. # 2, CONSULT P & P SHEETS OF LOS DURANES SANITARY SEWER FACILITIES PHASE II, PROJECT NO. 3395.

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

SERVICE RD.



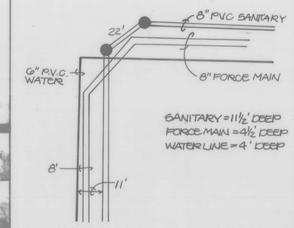
DURANES RD. N.W.



NOTE:
AS-BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

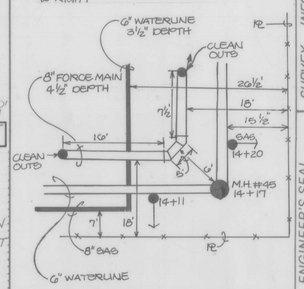
1	2	3	4	5	6	7	8	9	10	11	12
2	6	2	9	8	6	0	7	8	8		

NOTE:
1. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.



DETAIL 'B'
N.T.S.

STA. 14+50 - CONSTRUCT SANITARY SEWER SERVICE LINE AS PER CITY OF ALBUQ. STD. DWG. S-9, AND APPROPRIATE WEBER DETAIL S-1 OR S-3. PROVIDE 26 L.F. SERVICE LINE.
INV. @ P.L. = 4953.00
INV. @ MAIN = 4952.60



DETAIL 'A'
N.T.S.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

08-0488
Date

STATE OF NEW MEXICO — JEFFREY G. MORTENSEN — NO. 8547 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	1/22/87	IN-SVCE @ MH # 2	GKS
2	6/88	AS-BUILT	GKG

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, "B-C12," SET IN TOP OF A CONCRETE POST APPROXIMATELY 0.80 FT. ABOVE GROUND, THE JUNCTION OF RIO GRANDE BLVD. N.W. & MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEVATION = 4908.22 FT. (M.S.L.D.)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MANN, JR. — 3782

BI DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

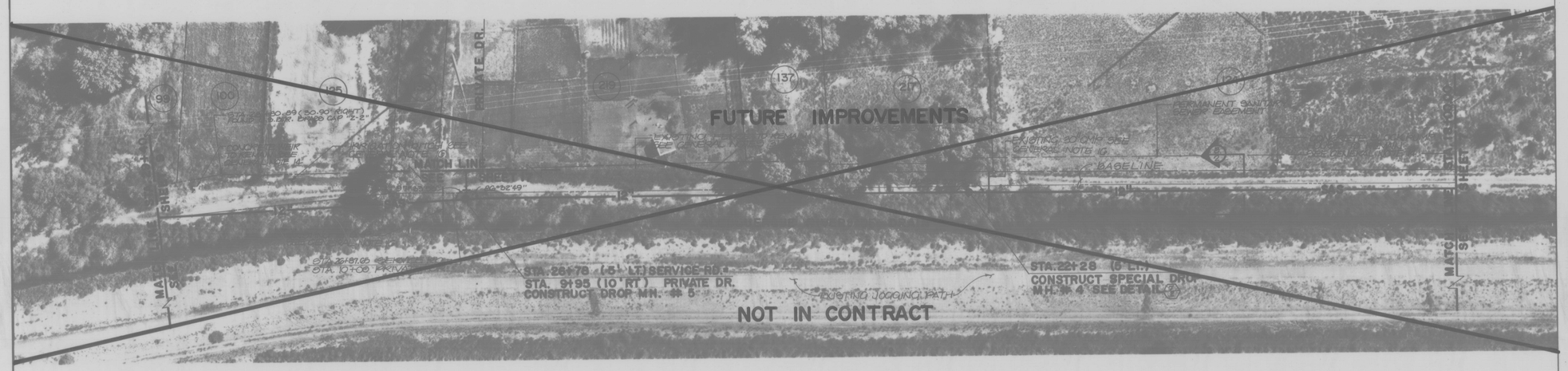
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
DURANES RD. N.W. STA. 10+35.41 TO STA. 14+75
SERVICE RD. STA. 13+00 TO STA. 18+00

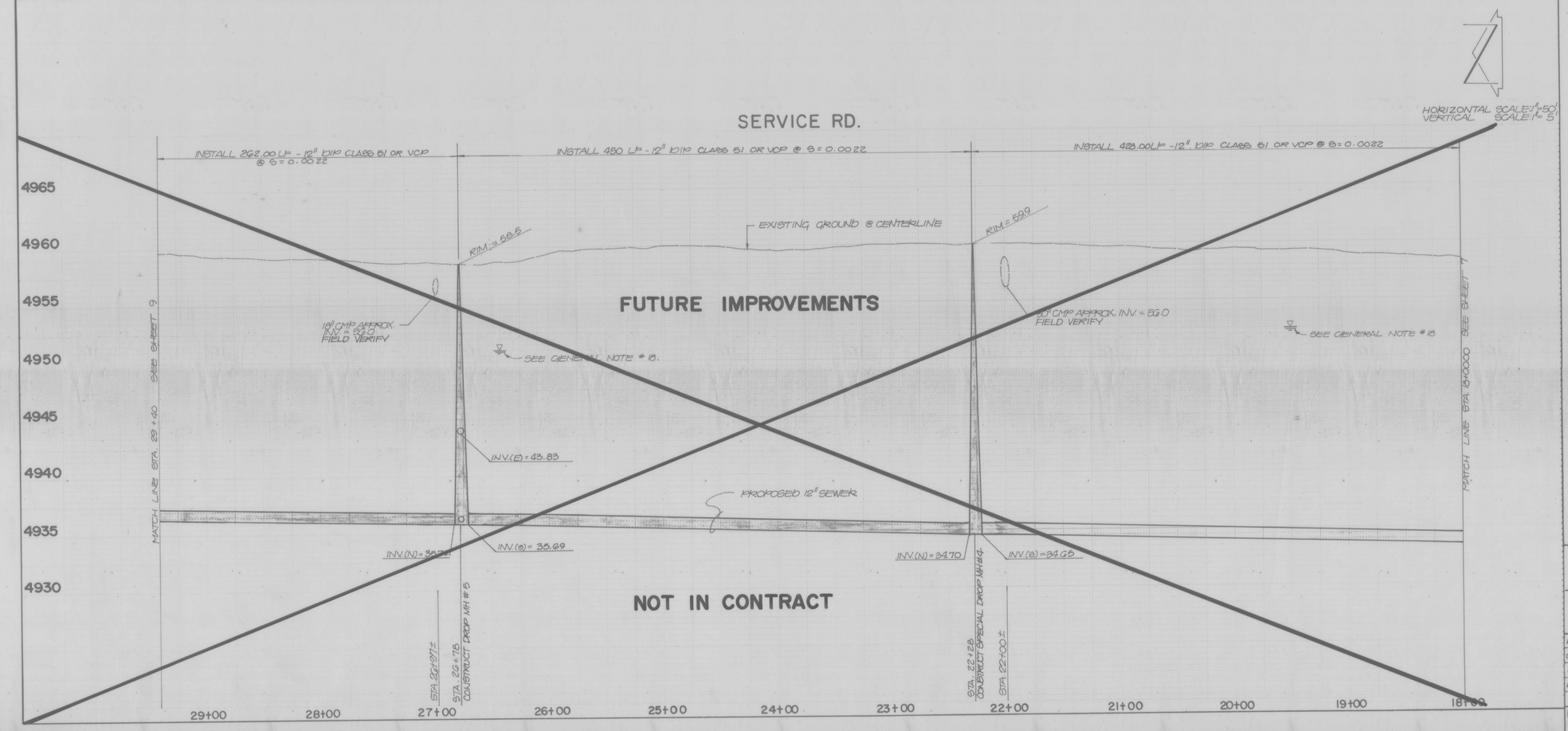
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	7	41

RECORD DRAWING

AF 224401





PHOTOGRAPHY & PHOTO REPRODUCTION BY KODGIE & POULS ENGINEERING 8338A COMMANCHE N.E. ALBUQUERQUE, N.M. 87110

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-G12", SET IN TOP OF A CONCRETE POST PROJECTING 0.2D FT. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4923.22 FT. (M.S.L.D.)

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MATSUMOTO — 9-26-88

NO.	DATE	REMARKS	BY

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 ENGINEERS

CONTINENTAL ASSOCIATES

1 2 3 4 5 6 7 8 9 10 11 12
26 2986 0888

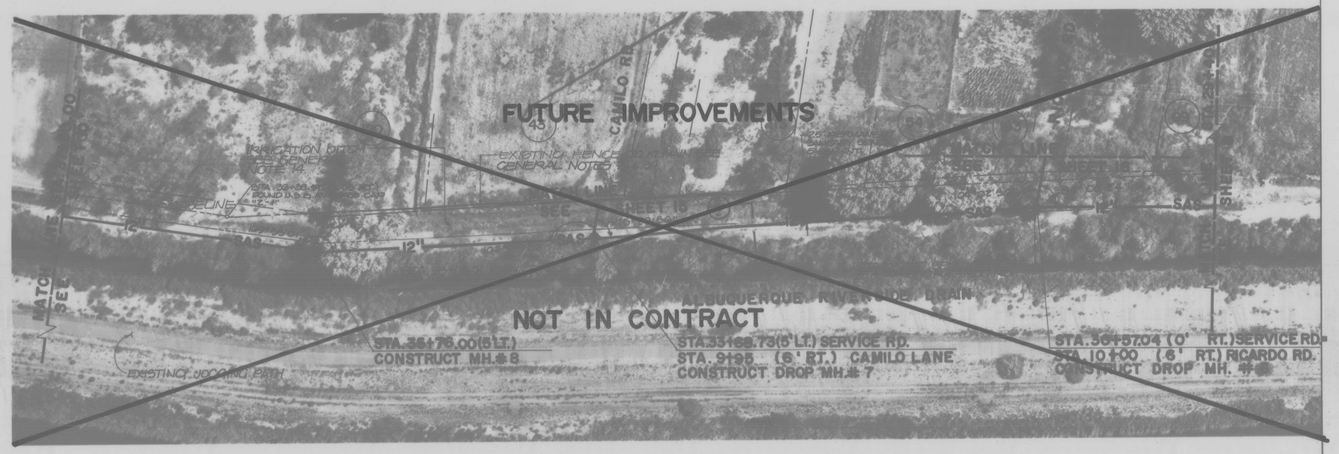
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
SERVICE RD. STA. 18+00 TO STA. 29+40.77

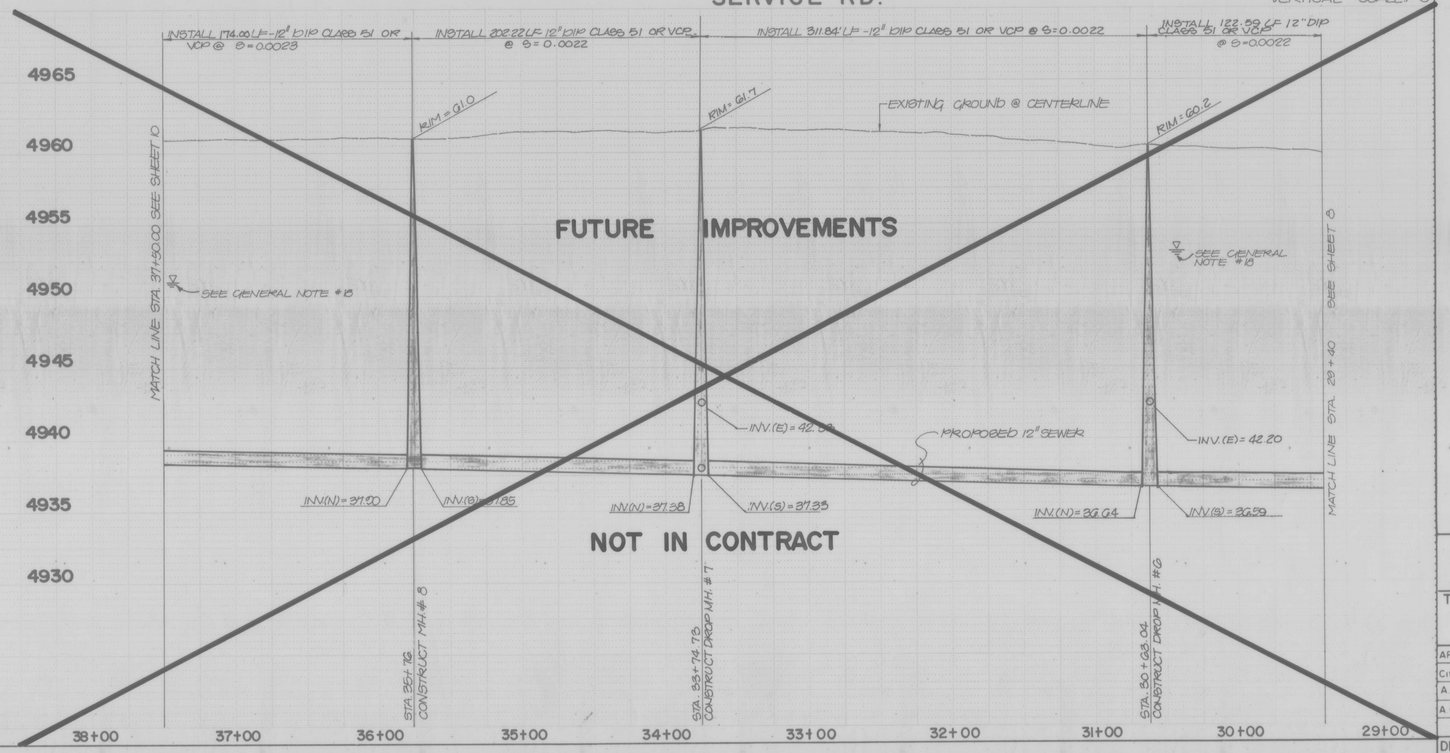
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/88

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	8	41

AF 22440B



HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=8'



PHOTOGRAPHY & PHOTOGRAMMETRY BY
KOOGLE & POULS ENGINEERING
11334 CORANCHE N.E. ALBUQUERQUE, N.M. 87110

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION	
FIELD NOTES			A STANDARD ACS BRASS TABLET, "B 1 C 62," SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W. ELEV. = 4923.22 FT. (PUBLD.)	CONTRACTOR	
NO.	BY	DATE		PLANS BY	DATE
				INSPECTOR'S ACCEPTANCE BY	
				FIELD VERIFICATION BY	DATE
				DRAWING CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MATSUMOTO 9-21-87

NO.	DATE	REMARKS	BY

W/ DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 ENGINEERS

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

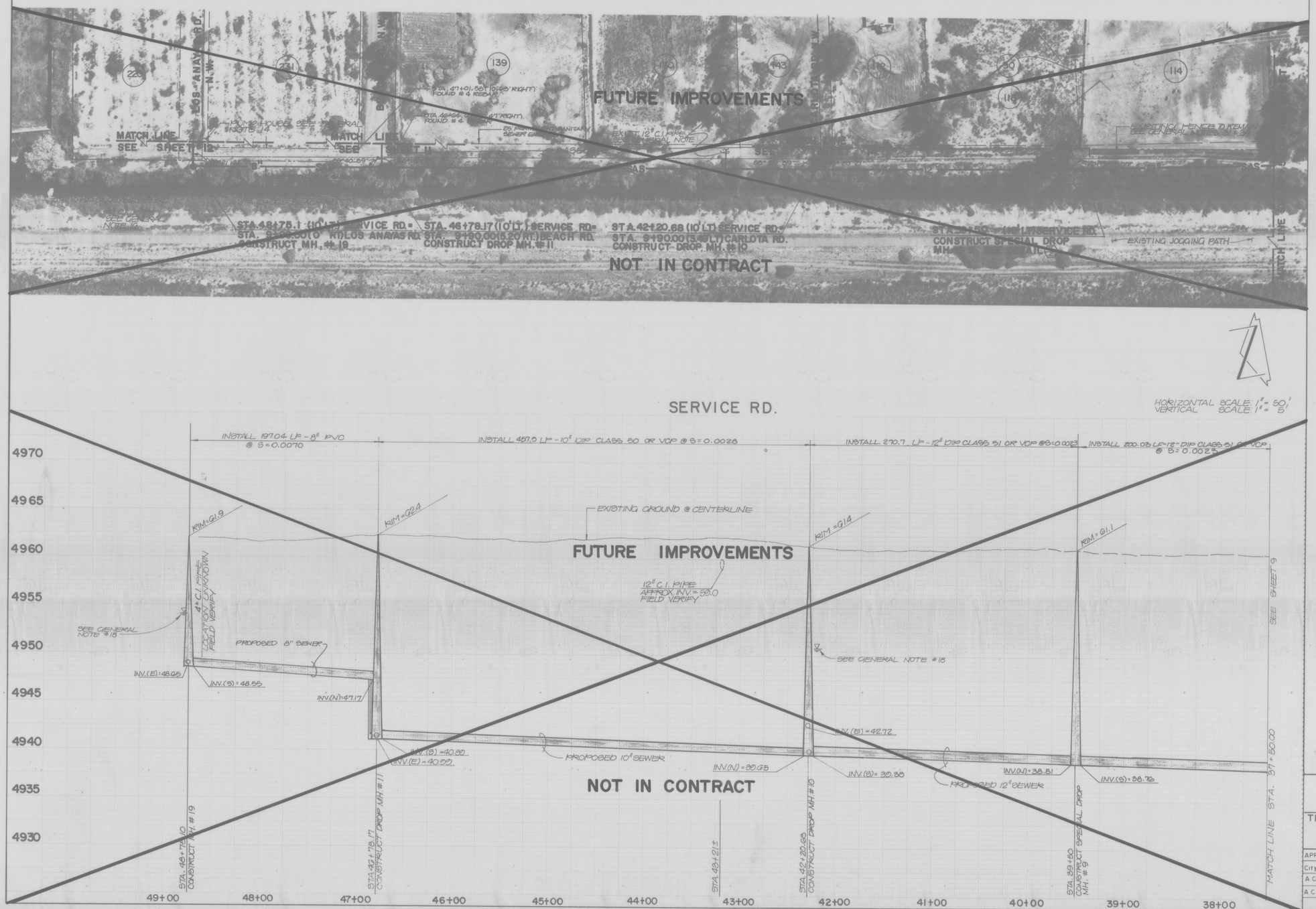
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
SERVICE RD. STA 29+40.77 TO STA 37+50

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		10/31/86

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	9	41

AF 22440B



PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 8133A COMANCHE N.E. ALBUQUERQUE, N.M. 87110

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION
FIELD NOTES			A STANDARD ACS BRASS TABLET, 1'B-G12, SET IN TOP OF A CONCRETE POST PROJECTING 0.20 ft. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W. ELEVATION = 4803.22 ft. (MSL.D)	CONTRACTOR
NO.	BY	DATE		WORK STAKED BY / DATE
				INSPECTOR / DATE
				ACCEPTANCE BY / DATE
				FIELD VERIFICATION BY / DATE
				DRAWINGS CORRECTED BY / DATE
				MICRO-FILM INFORMATION
				RECORDED BY / DATE
				NO.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MUNN, JR. 5786

NO.	DATE	REMARKS	BY

BY: DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 ENGINEERS

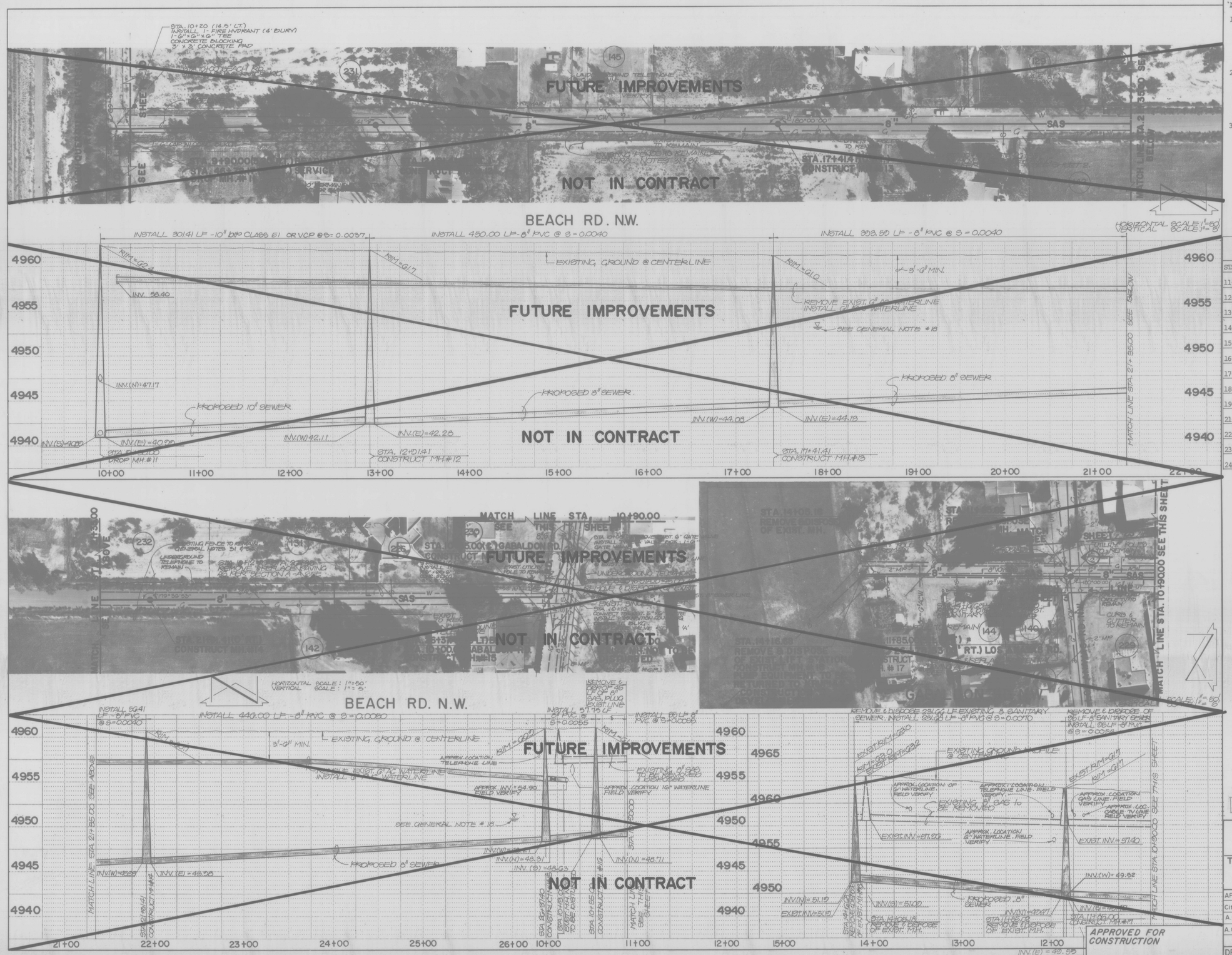
1 2 3 4 5 6 7 8 9 10 11 12
2G 2986 1 0 8 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
SERVICE RD. STA. 37+50 TO STA. 48+70.39

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		4/21/86
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		4/21/86

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	10	41



NOTES:

1. WHERE AN EXISTING WATER LINE IS TO BE REPLACED AND AN EXISTING WATER SERVICE IS ENCOUNTERED THE WATER SERVICE SHALL BE RECONNECTED TO THE NEW LINE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-10.
2. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR IS TO LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MINIMUM).
3. WHERE AN EXISTING SEWER MAIN IS TO BE REPLACED AND AN EXISTING SEWER SERVICE IS ENCOUNTERED, THE SEWER SERVICE SHALL BE RECONNECTED TO THE NEW LINE IN THE MANNER AND DIRECTION ORIGINALLY FOUND.

SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
11+30	4956.00		L/3
12+50	4955.50		L/3
13+50		RT. 4957.50	COA STD. DWG. S-9
14+60		LT. 4957.50	COA STD. DWG. S-9
15+70	RT. 4955.20	LT. 4957.20	K/3
16+65	4955.20		L/3
17+85		RT. 4957.00	COA STD. DWG. S-9
18+90		LT. 4957.00	COA STD. DWG. S-9
19+92		RT. 4957.00	COA STD. DWG. S-9
21+45	4954.60		L/3
22+85	4954.60		L/3
23+60		RT. 4956.50	COA STD. DWG. S-9
24+60		LT. 4956.50	COA STD. DWG. S-9

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD CLARIFICATION BY — DATE
CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, 3"-0/12, SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEVATION = 4963.22 FT. (M.S.L. D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

NO.	DATE	REMARKS	BY

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MATHEWS — 9-26-82

RI DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
JOHN ALBERT ASSOCIATES, INC.
ENGINEERS

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

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
GABALDON RD. N.W. STA. 10+00 TO STA. 14+16.68
BEACH RD. N.W. STA. 9+90 TO STA. 26+37.40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/82
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/82

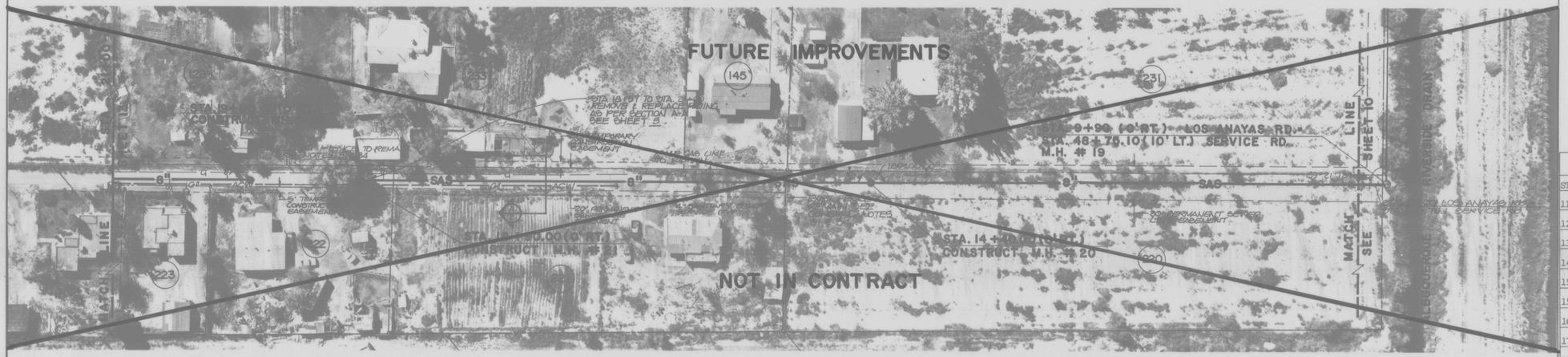
APPROVED FOR CONSTRUCTION

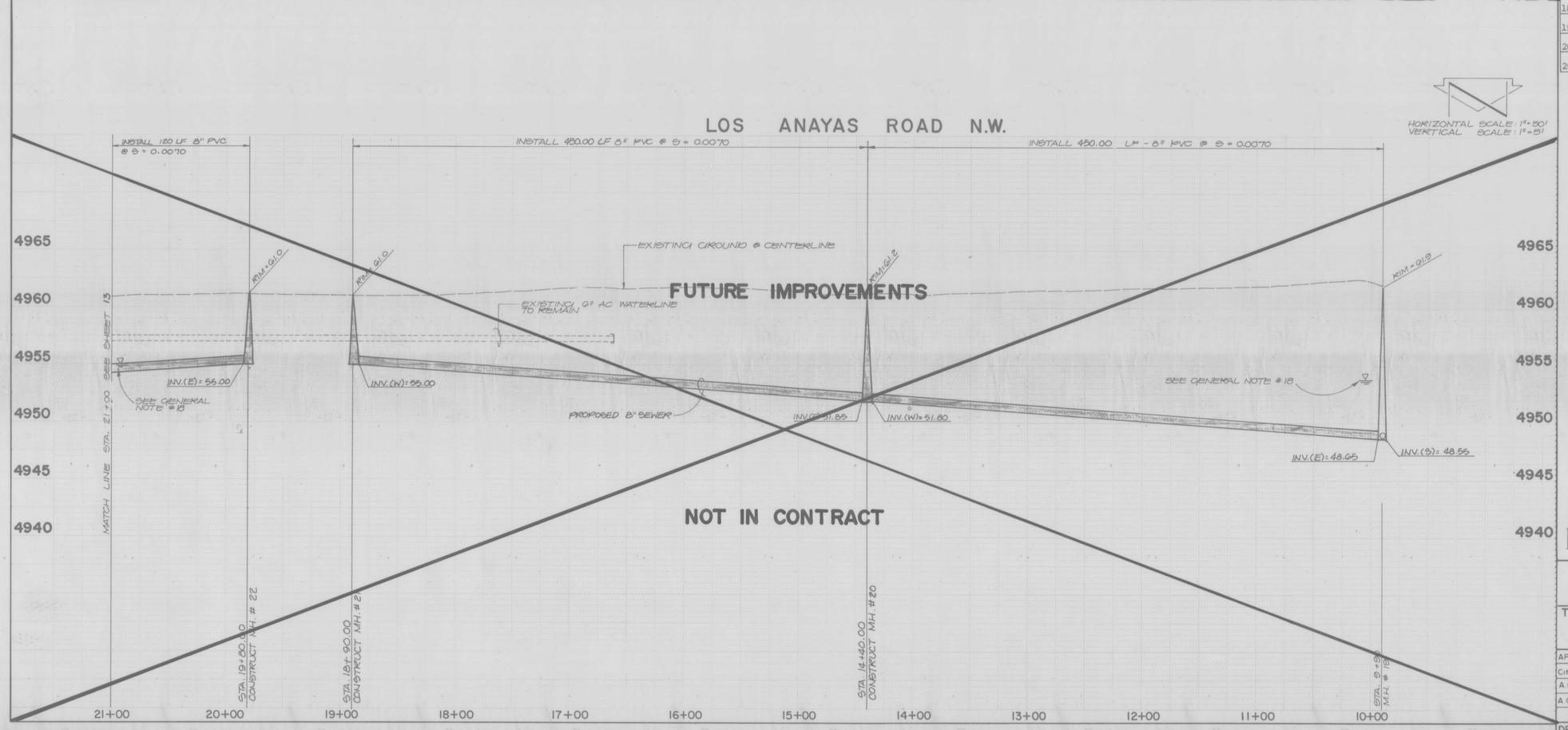
CITY ENGINEER — DATE

DRAWING NO. 2986 — MAP NO. H-12 — SHEET 11 OF 41

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 11133A COMANCHE N.E. - ALBUQUERQUE, N.M. 87123

AF 22440B





NOTES:

1. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR IS TO LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MINIMUM).

SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
11+10	4955.80		L/3
12+30	4955.60		L/3
13+90	LT. 4955.20	RT. 4957.20	R/3
14+60		RT. 4957.20	COA STD. DWG. S-9
15+80		RT. 4957.20	COA STD. DWG. S-9
15+90		LT. 4957.20	COA STD. DWG. S-9
16+90	4955.20		L/3
17+90		RT. 4957.00	COA STD. DWG. S-9
18+60		RT. 4957.00	COA STD. DWG. S-9
19+85		LT. 4957.00	COA STD. DWG. S-9
20+00		RT. 4957.00	COA STD. DWG. S-9
20+50		LT. 4957.00	COA STD. DWG. S-9

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, #9-C12," SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD N.W. & MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEVATION - 4963.22 FT. (MSLD)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MANN, JR. — 4-26-88 — SURVEYOR

NO.	DATE	REMARKS	BY

JOHN WARD ASSOCIATES, INC.
811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

1 2 3 4 5 6 7 8 9 10 11 12
26 2986 1 2 8 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

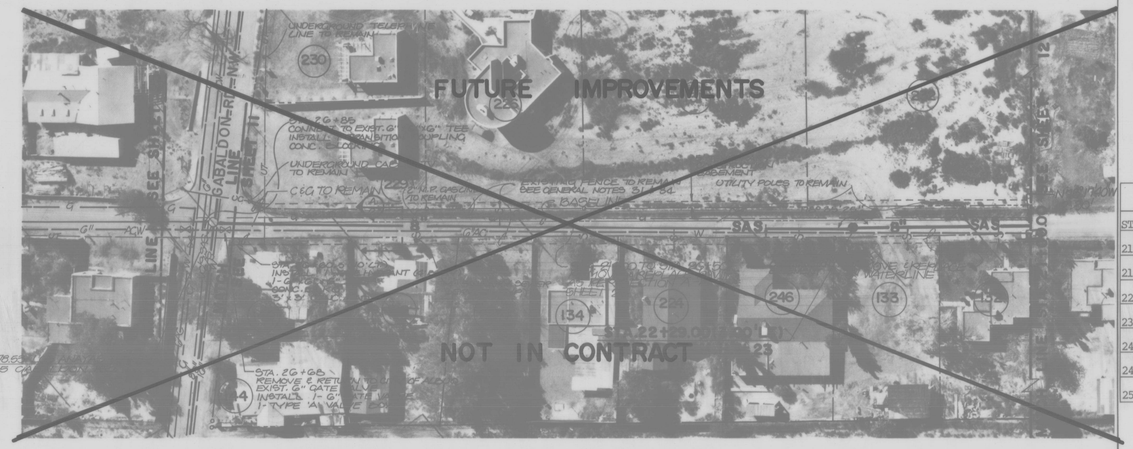
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
LOS ANAYAS ROAD N.W. STA. 9+90 TO STA. 21+00

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	12	41

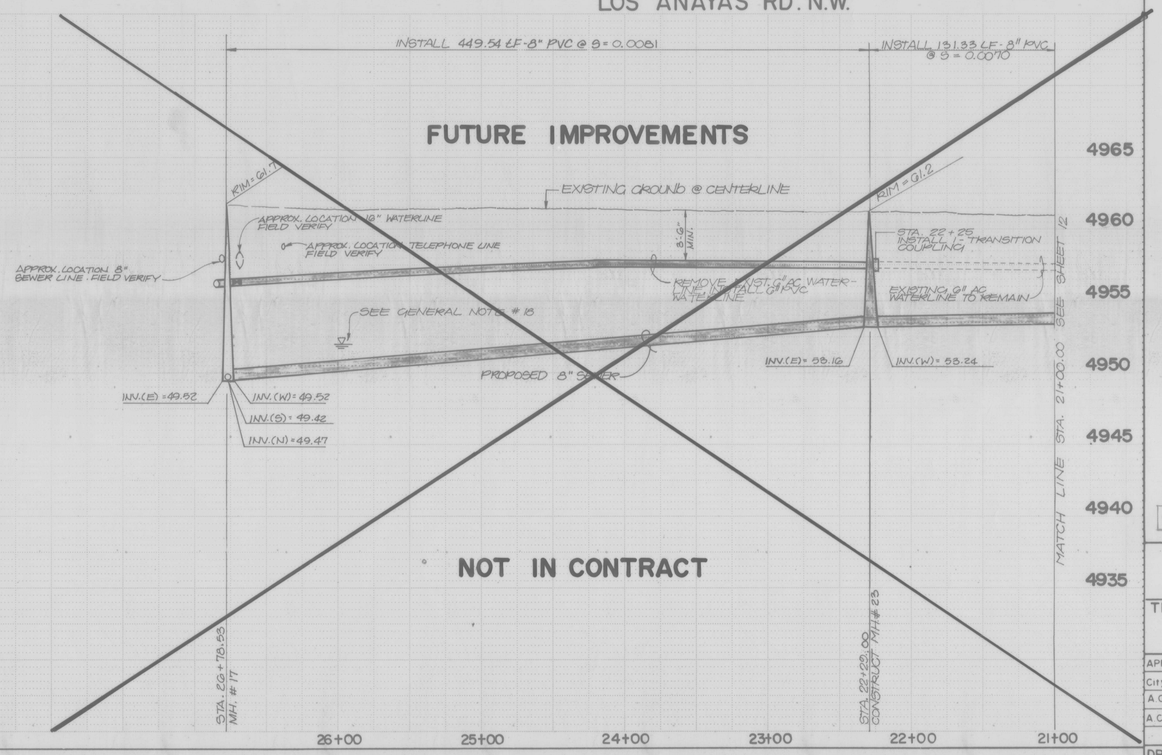
PHOTOGRAPHY & PHOTO REPRODUCTION BY
KOOGLE & POULS ENGINEERING
8338A COMANCHE N.E. ALBUQUERQUE, N.M. 87110

AF 22440B



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 8'

LOS ANAYAS RD. N.W.



NOTES:

1. WHERE AN EXISTING WATER LINE IS TO BE REPLACED AND AN EXISTING WATER SERVICE IS ENCOUNTERED THE WATER SERVICE SHALL BE RECONNECTED TO THE NEW LINE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-10.
2. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR IS TO LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MINIMUM).
3. THE EXISTING 6" WATERLINE SHALL BE EXCAVATED PRIOR TO CONSTRUCTION TO DETERMINE ITS EXACT LOCATION WITH RESPECT TO THE SEWER LINE. THE WATERLINE SHALL BE SALVAGED IF POSSIBLE.

SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
21+20		LT. 4957.20	COA STD. DWG. S-9
21+85		LT. 4957.20	COA STD. DWG. S-9
22+60		LT. 4957.20	COA STD. DWG. S-9
23+45	RT. 4955.20	LT. 4957.20	K/2
24+10	RT. 4955.20	LT. 4957.20	K/2
24+70	LT. 4955.20	RT. 4957.20	K/2
25+30		LT. 4957.20	COA STD. DWG. S-9

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DATE
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS
A STANDARD ACS BRASS TABLET, "3-G12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.224 (MSLD)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. GRAHAM JR. 7327 SURVEYING
12-18-86

NO.	DATE	REMARKS	BY

BIT DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 ENGINEERS

1 2 3 4 5 6 7 8 9 10 11 12
2G 2986 1388

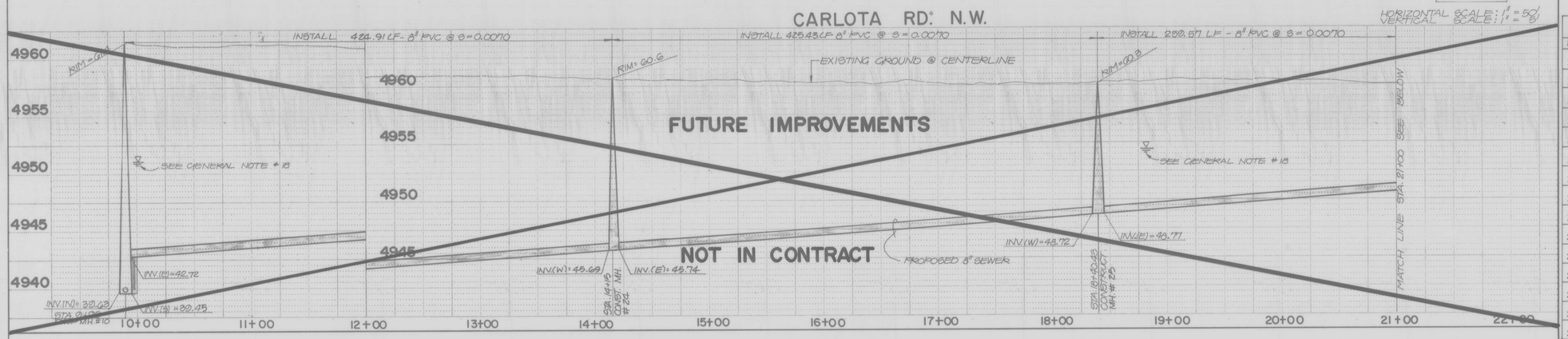
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

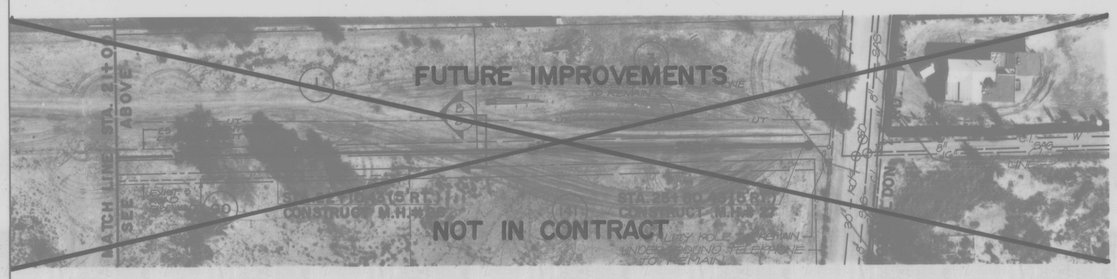
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
LOS ANAYAS RD. N.W. STA. 21+00 TO STA. 26+39.58

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	13	41

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 8338A COMANCHE N.E. ALBUQUERQUE, N.M. 87110





SEWER SERVICE STATIONING			
STA	RISER INV.	SERVICE INV.	DETAIL
11+00	AS PER DETAIL		L/3
12+00	AS PER DETAIL		L/3
13+00	AS PER DETAIL		L/3
14+00	AS PER DETAIL		L/3
15+00	AS PER DETAIL		L/3
16+00	AS PER DETAIL		L/3
17+00	AS PER DETAIL		L/3
18+00	AS PER DETAIL		L/3
19+00	AS PER DETAIL		L/3
20+00	AS PER DETAIL		L/3
21+00	AS PER DETAIL		L/3
22+00	AS PER DETAIL		L/3
23+00	AS PER DETAIL		L/3
24+00	AS PER DETAIL		L/3
25+00	AS PER DETAIL		L/3

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
STAKING CHECKED BY — DATE
ACCEPTANCE BY — DATE
FIELD REVISIONS BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "13-G12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEVATION = 4903.22 FT. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. ELLIOTT, JR. — COLORADO

NO.	DATE	REMARKS	BY

RIO DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

26 2986 1488

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

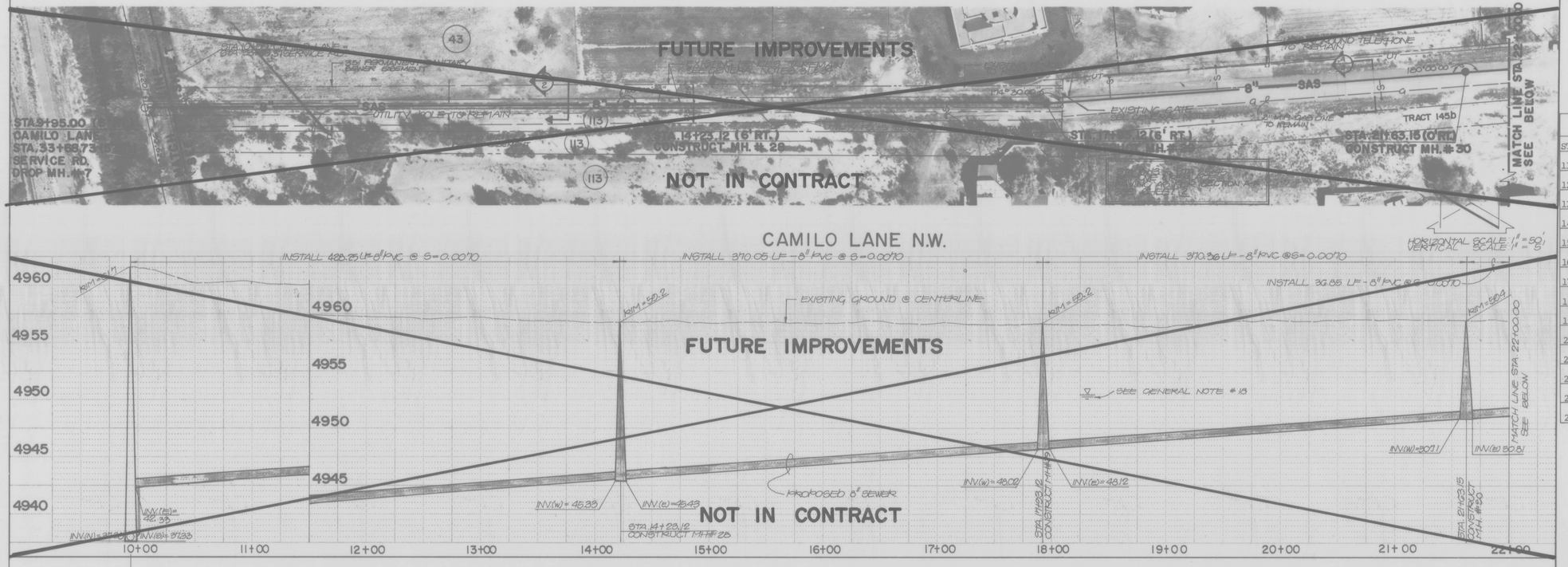
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
CARLOTA RD. N.W. STA. 9+90 TO STA. 25+80.43

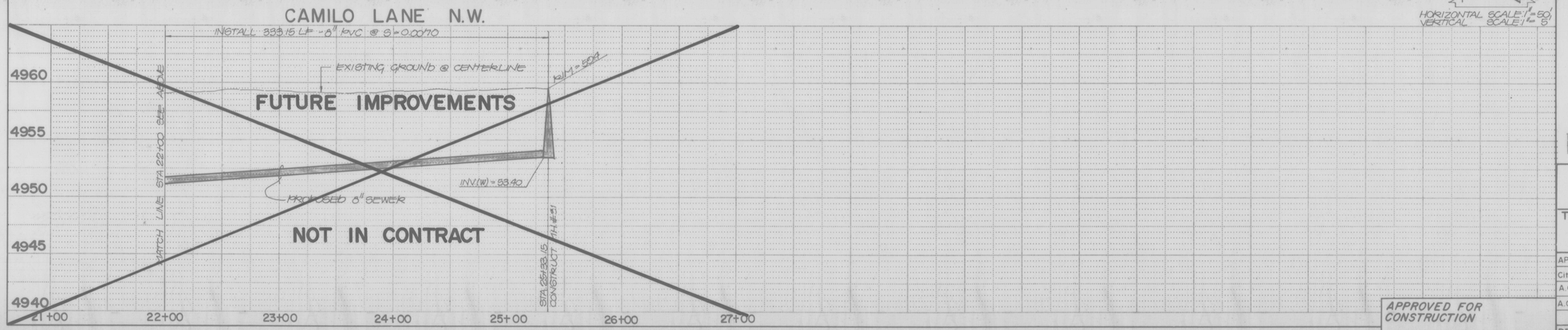
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/31/88

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

DRAWING NO. 2986 — MAP NO. H-12 — SHEET 14 OF 41

PHOTOGRAPHY & PHOTOGRAMMETRIC PRODUCTION BY
GOOGLE & POULS ENGINEERING
8708A COMANCHE N.E. ALBUQUERQUE N.M. 87110





SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
11+00	4954.30		L 3
12+00	4953.70		L 3
13+00	4953.70		L 3
14+00	4953.20		L 3
15+00	4953.20		L 3
16+00	4953.20		L 3
17+05		RT. 4955.20	COA STD. DWG. S-9
18+50		LT. 4955.00	COA STD. DWG. S-9
19+44		LT. 4955.00	COA STD. DWG. S-9
20+86		RT. 4955.50	COA STD. DWG. S-9
22+18		RT. 4954.20	COA STD. DWG. S-9
22+48		LT. 4955.20	COA STD. DWG. S-9
24+14		LT. 4955.20	COA STD. DWG. S-9
24+30		RT. 4955.20	COA STD. DWG. S-9

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD LOCATION BY — DATE
LEGAL REVIEW BY — DATE
CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV = 4903.22 FT. (NGVD)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MARTINEZ — 9-26-86

NO.	DATE	REMARKS	BY

RIO DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

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

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

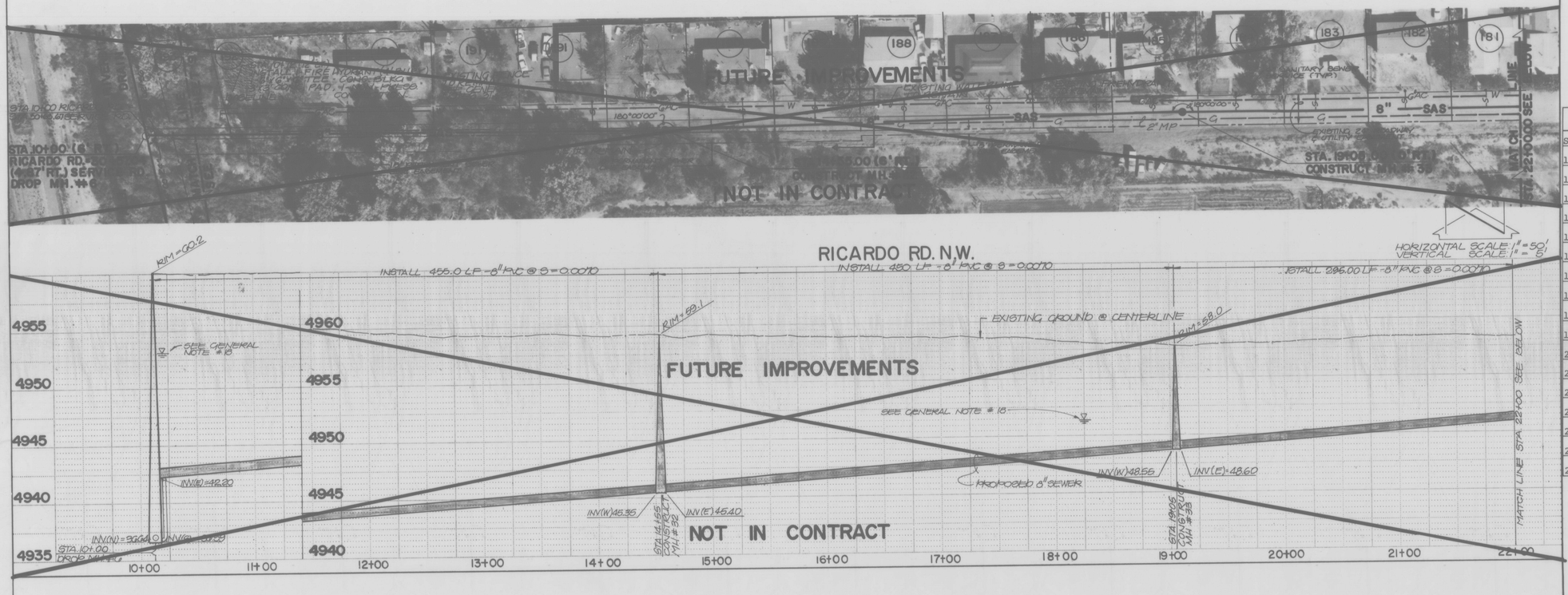
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
CAMILO RD. N.W. STA. 9+97.18 TO STA. 25+33.15

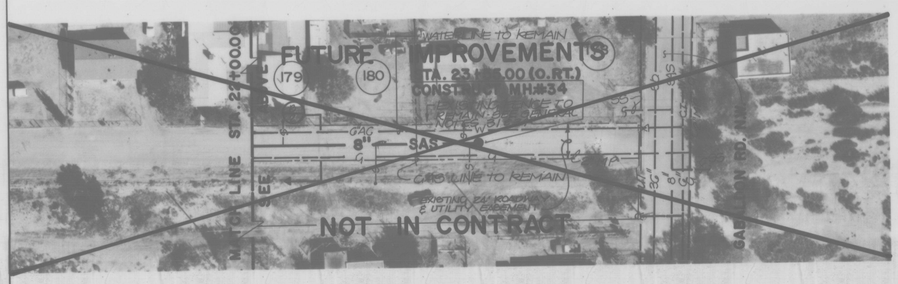
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

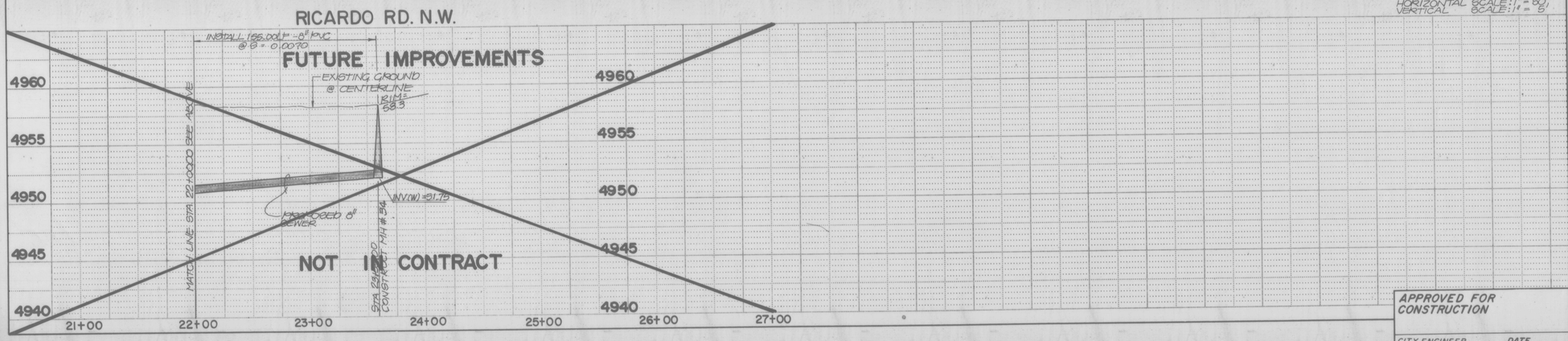
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

DRAWING NO. 2986 — MAP NO. H-12 — SHEET 15 OF 41

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 8728A COMANCHE N.E. ALBUQUERQUE, N.M. 87110







NOTES:

1. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR IS TO LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MINIMUM).

SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
11+16	4954.00		K 3
12+20	RT. 4953.50	LT. 4955.50	K 3
13+90	RT. 4953.30	LT. 4955.30	K 3
15+20	RT. 4953.00	LT. 4955.00	K 3
15+85	RT. 4953.00	LT. 4955.00	K 3
16+62	RT. 4952.70	LT. 4954.70	K 3
17+35	RT. 4952.50	LT. 4954.50	K 3
18+30	RT. 4952.00	LT. 4954.00	K 3
18+80	RT. 4951.80	LT. 4953.80	K 3
19+55	RT. 4951.80	LT. 4953.80	K 3
20+20	RT. 4952.00	LT. 4954.00	K 3
21+00	RT. 4952.50	LT. 4954.50	K 3
21+70	RT. 4952.40	LT. 4954.40	K 3
22+20		LT. 4954.20	COA STD. DWG. S-9
22+85		RT. 4954.20	COA STD. DWG. S-9
23+46		LT. 4954.20	COA STD. DWG. S-9
23+50		RT. 4954.20	COA STD. DWG. S-9

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECT AS BUILT — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, 3'-0 1/2" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 ft. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. NW. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV = 4963.22 ft. (NGLD)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. [illegible]

NO.	DATE	REMARKS	BY

811 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS
John Wiley & Associates, Inc.

26 | 2986168 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

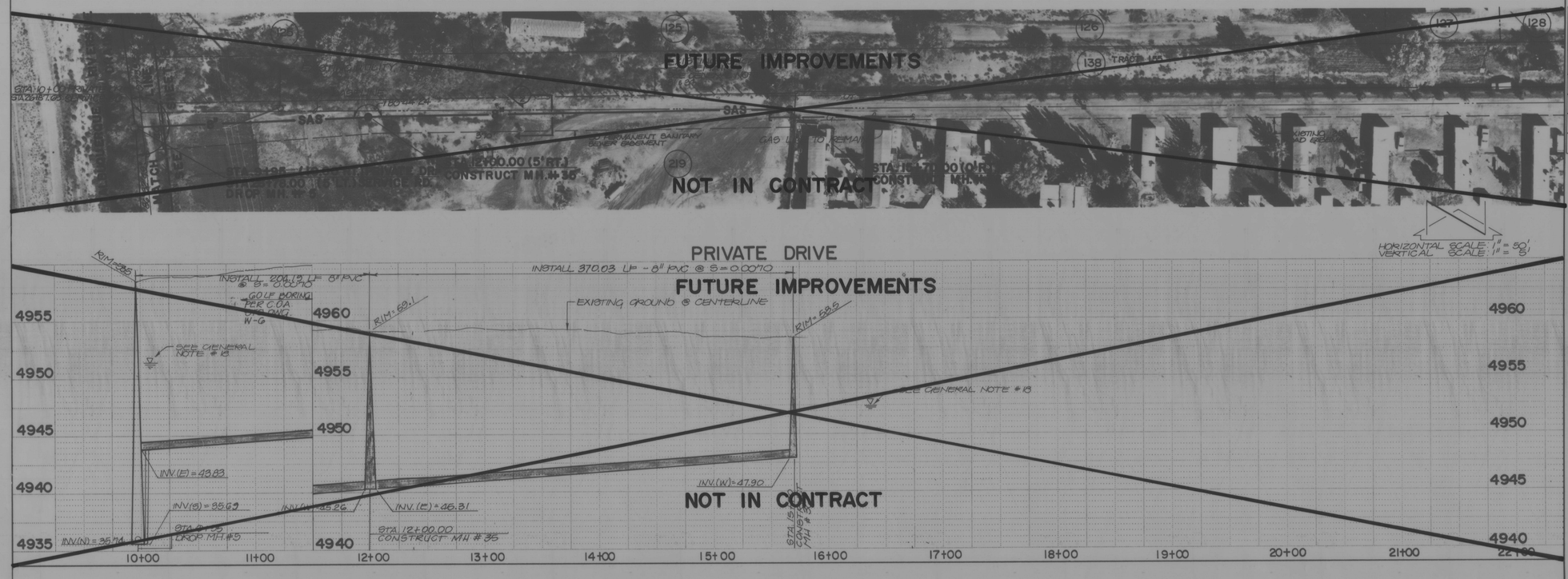
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
RICARDO RD. N.W. STA 10+10.77 TO STA. 24+39.60

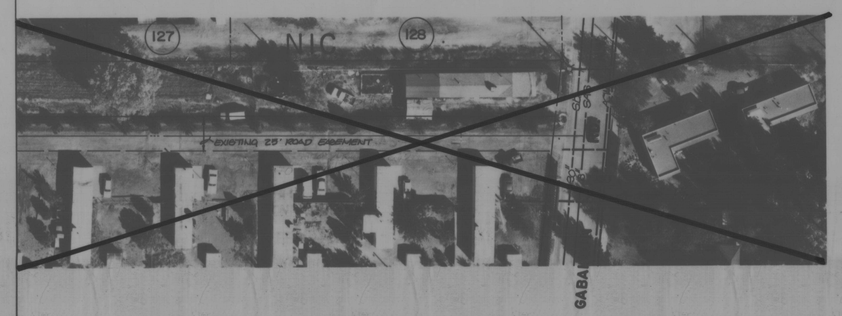
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/82
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/82

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 16 OF 41

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING
8123A COMANCHE N.E. ALBUQUERQUE, N.M. 87110





NOT IN CONTRACT

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

SEWER SERVICE STATIONING			
STA	RISER INV.	SERVICE INV.	DETAIL
10+90	4953.50		L/3
11+90	4953.00		L/3
13+00	4953.00		L/3
14+00	4953.00		L/3
15+00	4952.50		L/3

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, 1.3'-G.12.1 SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV = 4903.22 FT. (MSLD)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
THOMAS T. [illegible]
REGISTERED PROFESSIONAL LAND SURVEYOR
[illegible] 1982

NO.	DATE	REMARKS	BY

101 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS
JOHN ABEYTA & ASSOCIATES, INC.

2 6 2 9 8 6 1 7 8 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PRIVATE DRIVE STA 9+96.11 TO STA 23+93.67

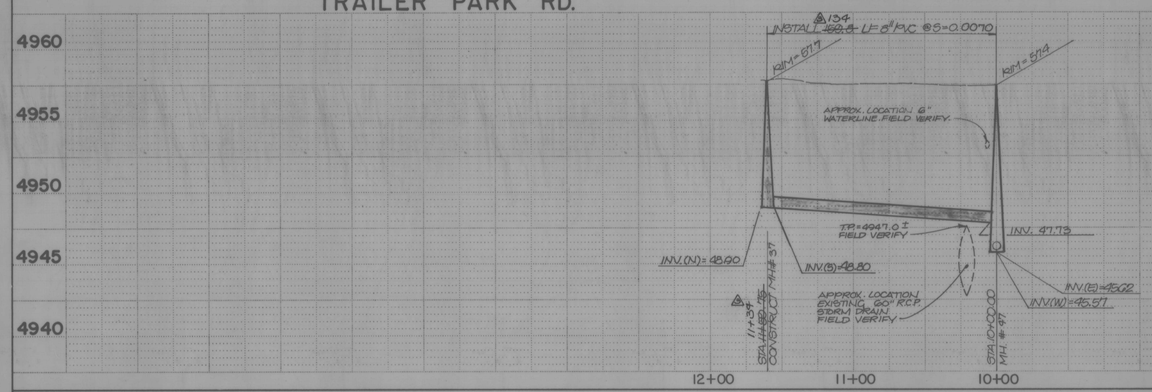
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.- Design			Traffic		
A.C.E.-Hydrology			Water		

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

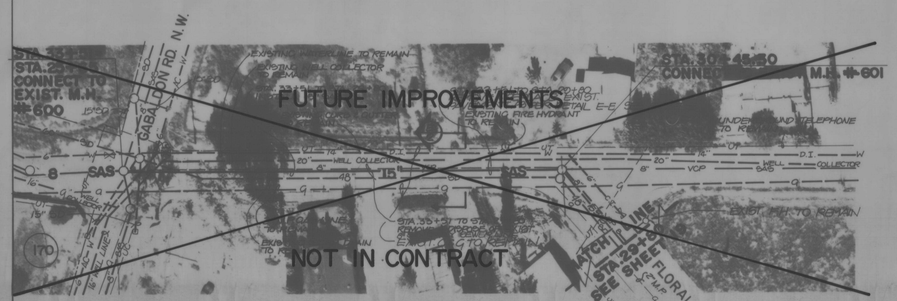
DRAWING NO. 2986 | MAP NO. H-12 | SHEET 17 OF 41

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

TRAILER PARK RD.

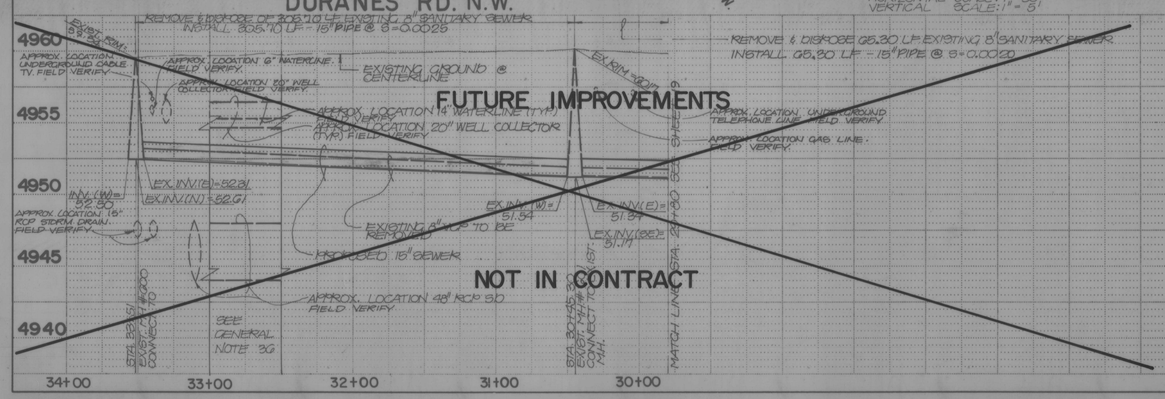


NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.



HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

DURANES RD. N.W.



NOTE:
1. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

Jeffrey G. Mortensen Date 08-04-88
NMPE #8547

NO.	DATE	REMARKS	BY
6	6/88	AS-BUILT	SKS
5	12/4/86	ADD STUB-OUT TRAILER PARK ROAD	SKS

RIT DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
A STANDARD ACS BRASS TABLET, 13-G12, SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. NW & MATTHEW AVE NW ON THE WEST EDGE OF RIO GRANDE BLVD. NW.
ELEVATION = 4928.22 FEET (MSL D.)

AS BUILT INFORMATION

CONTRACTOR		DATE
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
TRAILER PARK RD. STA. 10+00 TO STA. 16+10
~~DURANES ROAD NW. TO FLORAL ROAD N.W.~~ N.I.C.

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

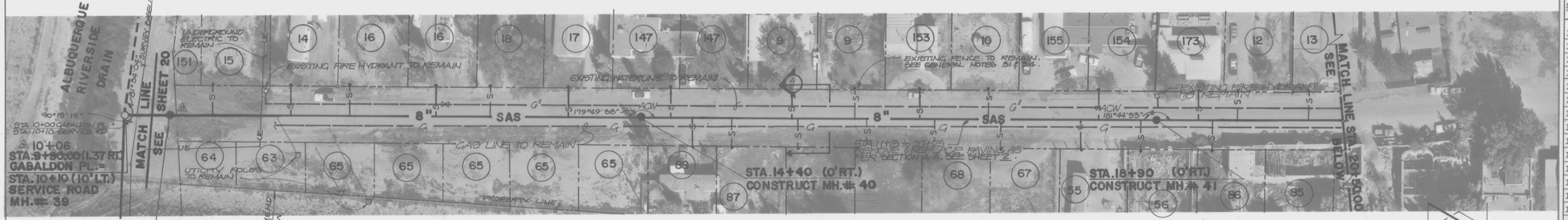
DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	18	41

26 2986 1888

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

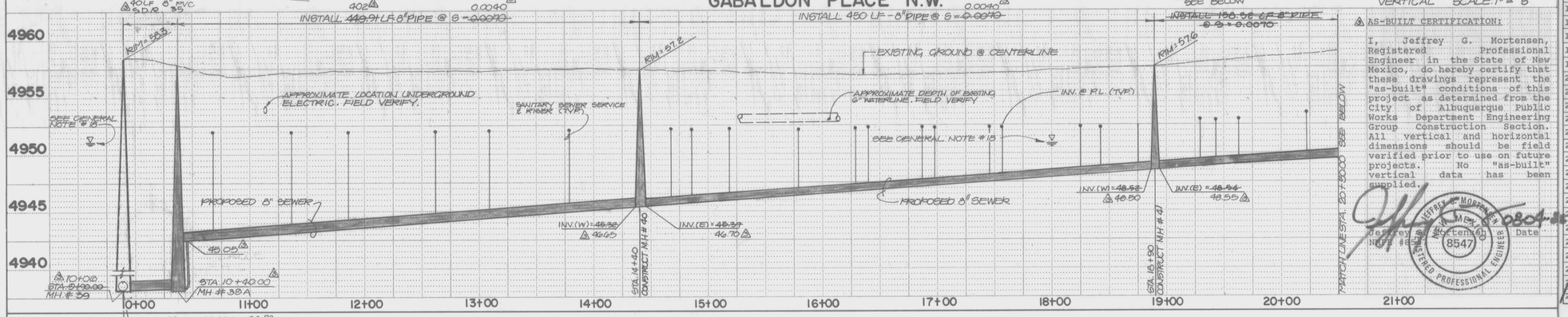
RECORD DRAWING

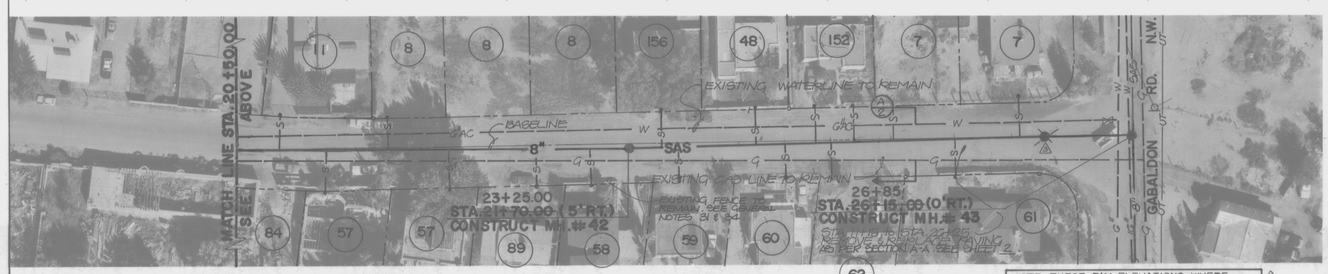
PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 8330A COMANCHE N.E. ALBUQUERQUE, N.M. 87110



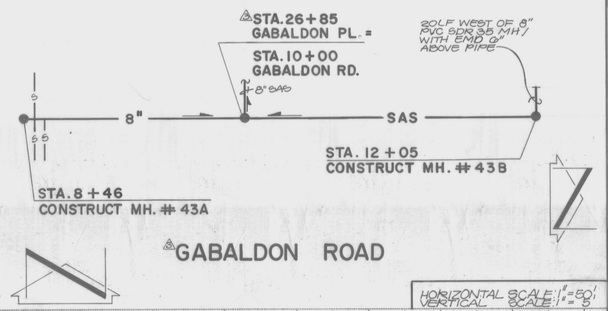
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

GABALDON PLACE N.W.



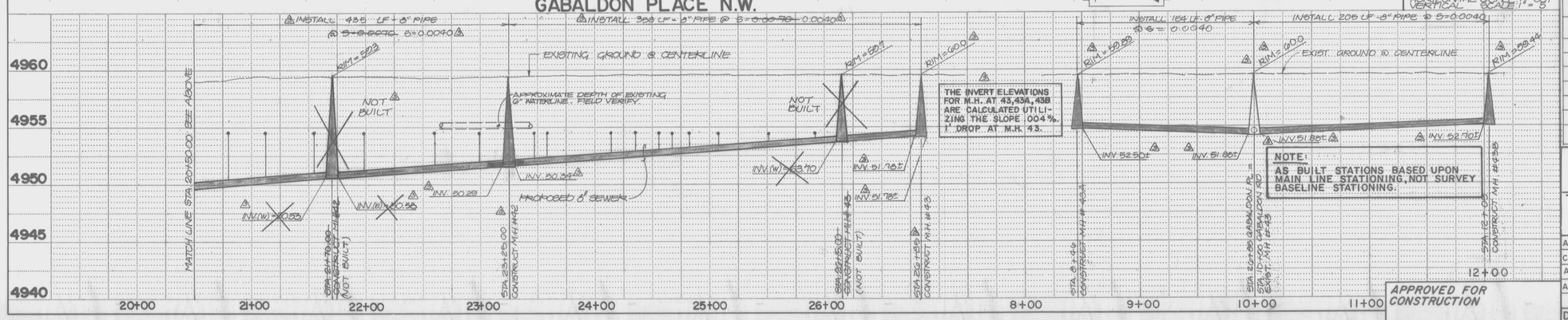


NOTE: THESE RIM ELEVATIONS WHERE DETERMINED BY FIELD VARIFICATION OF CITY STAFF 8/2/88.



HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

GABALDON PLACE N.W.



THE INVERT ELEVATIONS FOR M.H. AT 43, 43A, 43B ARE CALCULATED UTILIZING THE SLOPE .004%. 1' DROP AT M.H. 43.

NOTE: AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

SEE AS-BUILT TABLE BELOW

SEWER SERVICE DATA

Sta	Pipe length (incl. riser)	Inv. @ P.L.	Inv. @ Main
10+56 LT	40'	4952.0	4951.4
11+35 LT	40'	4952.0	4951.4
11+86 LT	40'	4952.0	4951.4
12+62 LT	40'	4952.0	4951.4
13+10 LT	40'	4952.0	4951.4
13+80 LT	40'	4952.0	4951.4
14+70 LT	35'	4952.2	4951.7
14+87 RT	35'	4952.2	4951.7
15+20 RT	35'	4952.2	4951.7
15+80 RT	35'	4952.2	4951.7
16+30 LT	35'	4952.3	4951.8
16+42 RT	35'	4952.3	4951.8
16+90 LT	30'	4952.3	4951.8
17+00 RT	30'	4952.3	4951.8
17+48 LT	30'	4952.4	4951.9
17+60 RT	30'	4952.4	4951.9
18+27 RT	30'	4952.4	4951.9
18+45 LT	30'	4952.4	4951.9
18+77 RT	30'	4952.5	4952.0
19+32 LT	30'	4952.9	4952.4
19+46 RT	30'	4952.9	4952.4
19+66 LT	30'	4952.9	4952.4
20+25 LT	30'	4953.5	4953.0
20+80 LT	30'	4954.3	4953.8
21+12 RT	30'	4954.3	4953.8
21+57 LT	30'	4954.3	4953.8
22+00 LT	30'	4954.3	4953.8
22+60 RT	30'	4954.3	4953.8
22+99 RT	30'	4954.3	4953.8
23+47 RT	30'	4954.3	4953.8
23+58 LT	30'	4954.3	4953.8
24+14 RT	30'	4954.3	4953.8
24+35 LT	30'	4954.3	4953.8
24+57 RT	30'	4954.3	4953.8
24+67 LT	30'	4954.3	4953.8
24+82 RT	30'	4954.3	4953.8
25+08 LT	30'	4954.3	4953.8
25+52 RT	30'	4954.3	4953.8
25+92 LT	30'	4954.3	4953.8

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

JEFFREY G. MORTENSEN 8547 REGISTERED PROFESSIONAL ENGINEER

Jeffrey G. Mortensen Date
NMPE #8547

NOTES:

1. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR SHALL LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES (MIN.).
2. DEPTH OF SERVICE LINES MAY HAVE TO BE FIELD ADJUSTED DEPENDING UPON THE AS-BUILT LOCATION OF THE WATER LINE.
3. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.
4. SANITARY SEWER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STD. DWG. S-9, AND APPROPRIATE RISER DETAIL S-7 OR S-8.

26 2986 1988

AS-BUILT SEWER SERVICE SCHEDULE

10+8	15+26	19+48	22+89
11+24	15+37	19+62	23+20.50
12+79	16+18	20+34	23+84
12+98	16+58	20+97	24+46.50
13+70	17+42	21+05	25+07
14+18	17+95	22+02	25+15
14+90	18+37	22+07	25+47
15+13	18+48	22+80	25+76

NO.	DATE	REMARKS	BY
		AS-BUILT	
4	1/22/91	INVERTS @ M.H. # 39	SMS
3	6/88		SMS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
FIELD INSPECTIONS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, '93-G25ET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (MSL.D.)

SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS E. MARTINEZ — 7016 — LAND SURVEYOR

MARTINEZ & ASSOCIATES, INC.
ENGINEERS
811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

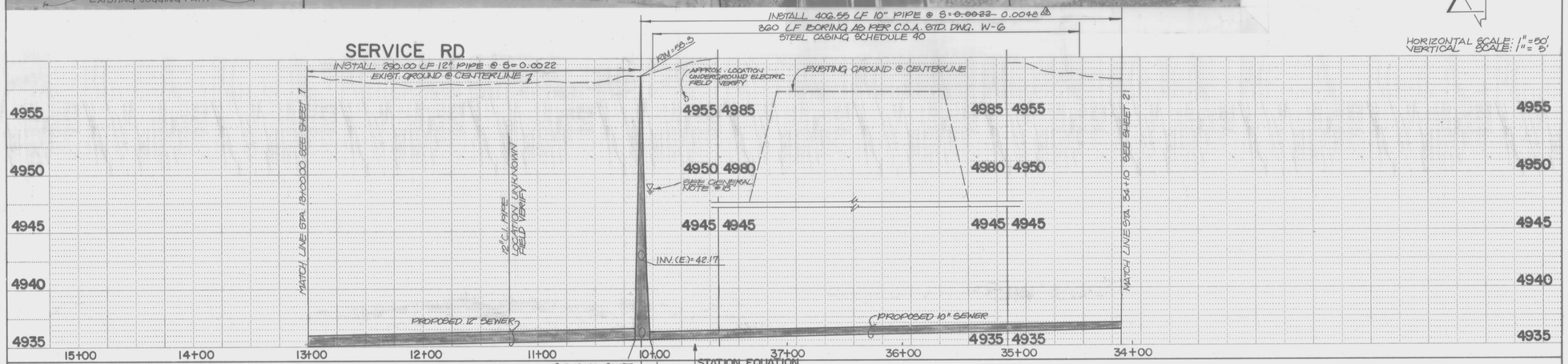
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
GABALDON PL. N.W. STA. 9+89.91 TO STA. 26+15

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		1/21/91
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		1/21/91

DRAWING NO. 2986 — MAP NO. H-12 — SHEET 19 OF 41

RECORD DRAWING

PHOTOGRAPHY & PHOTOGRAMMETRIC CONSTRUCTION BY KOOGLER & POULS ENGINEERING 8728A COMANCHE N.E. ALBUQUERQUE, N.M. 87110



NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

NOTE:

1. NO CONSTRUCTION SHALL TAKE PLACE ABOVE GROUND WITHIN NEW MEXICO STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY. CONSTRUCTION SHALL BE LIMITED TO UNDERGROUND BORING.

2. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen Date
NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6/86	AS-BUILT	GKS

RI DALLAS, N.E. · ALBUQUERQUE · NEW MEXICO · 87110
ENGINEERS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
STAKING CHECKS
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, 3-1/2", SET IN TOP OF A CONCRETE POST PROJECTING 0.80 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (MSL.D)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

PROFESSIONAL ENGINEER · STATE OF NEW MEXICO · JEFFREY G. MORTENSEN · 8547 · REGISTERED

PHOTOGRAPHY & PROGRESS INSPECTION BY
KOOGLE & POULS ENGINEERING
8338A COMANCHE N.E., ALBUQUERQUE, N.M. 87110

NOT IN CONTRACT

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

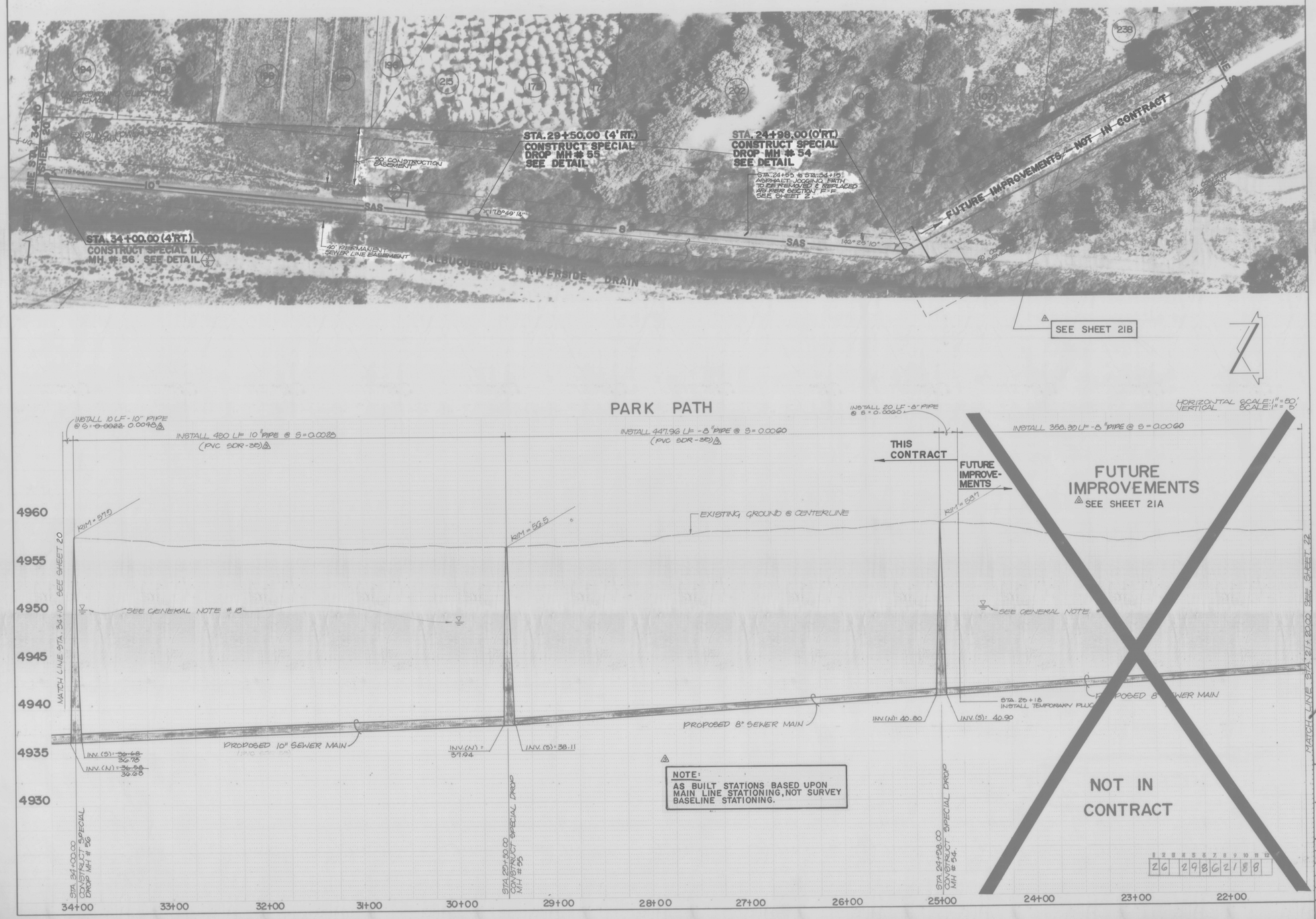
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PARK PATH STA. 34+10 TO STA. 37+80
& SERVICE RD. STA. 9+73 TO STA. 13+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		4/21/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		4/21/88

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	20	41

RECORD DRAWING

NOTE:
1. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.



NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen Date
NMPE #8547

JEFFREY G. MORTENSEN 8547 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6/86	AS-BUILT	SMG

SURVEY INFORMATION

NO.	BY	DATE	FIELD NOTES

BENCH MARKS
A STANDARD ACS BRASS TABLET, "B-12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4093.22 FT. (M.S.L.D.)

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTOR'S NOTES BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER JEFFREY G. MORTENSEN STATE OF NEW MEXICO 8547

811 DALLAN N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PARK PATH STA 21+20 TO STA. 34+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/88

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 21 OF 41

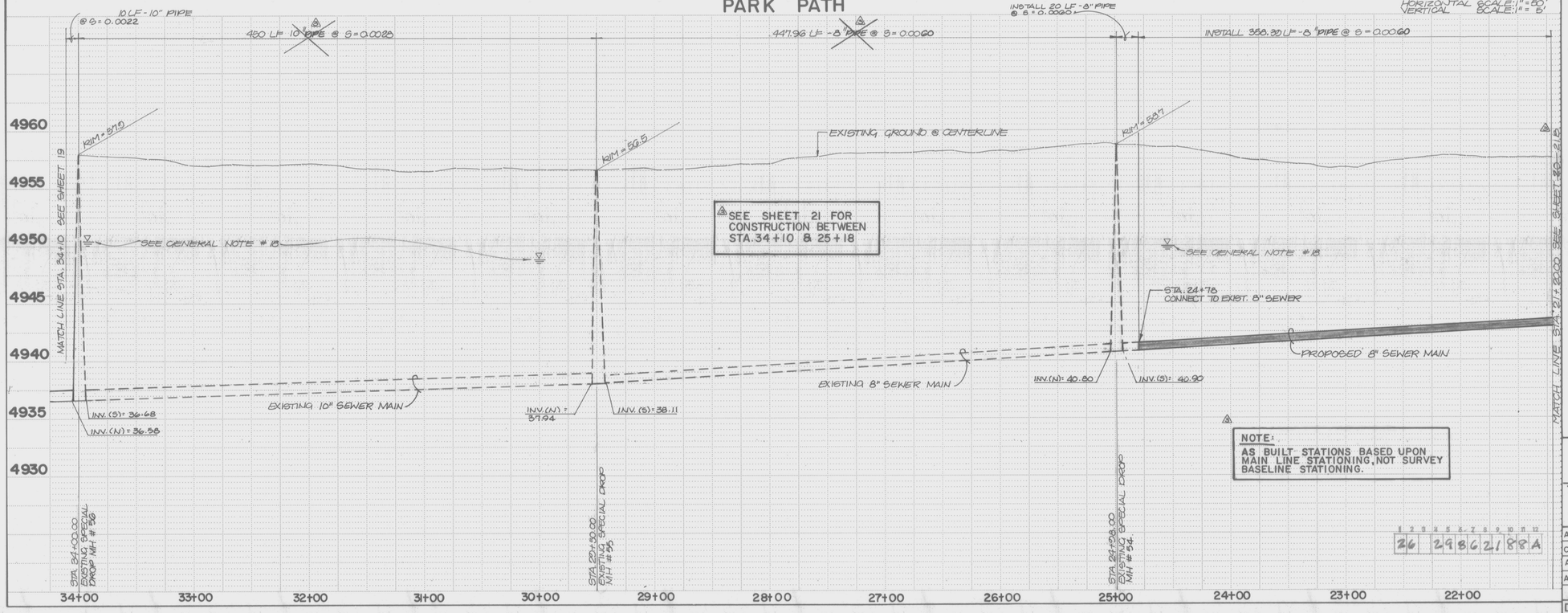
RECORD DRAWING

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING 8338 CORRAONE N.E. - ALBUQUERQUE N.M. 87110

AF 22440B

STA. 24+78 (0' RT.)
CONNECT TO EXIST. 8" SEWER

PARK PATH



NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

NOTE:

1. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen NMPE #8547 — 08-04-88 Date

JEFFREY G. MORTENSEN — NEW MEXICO — 8547 — REGISTERED PROFESSIONAL ENGINEER

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-C121" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4906.3, 22 FT. (M.G.L.D.)

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL

STATE OF NEW MEXICO — JEFFREY G. MORTENSEN — 8547 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6/88	AS-BUILT	SKS

KOOGLE & POULS ENGINEERING — 811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 — ENGINEERS — SURVEYORS — PLANNERS

PHOTOGRAPHY & PRODUCTION BY KOOGLE & POULS ENGINEERING 8123A COMANCHE N.E. ALBUQUERQUE, N.M. 87110

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PARK PATH STA 21+20 TO STA. 24+78

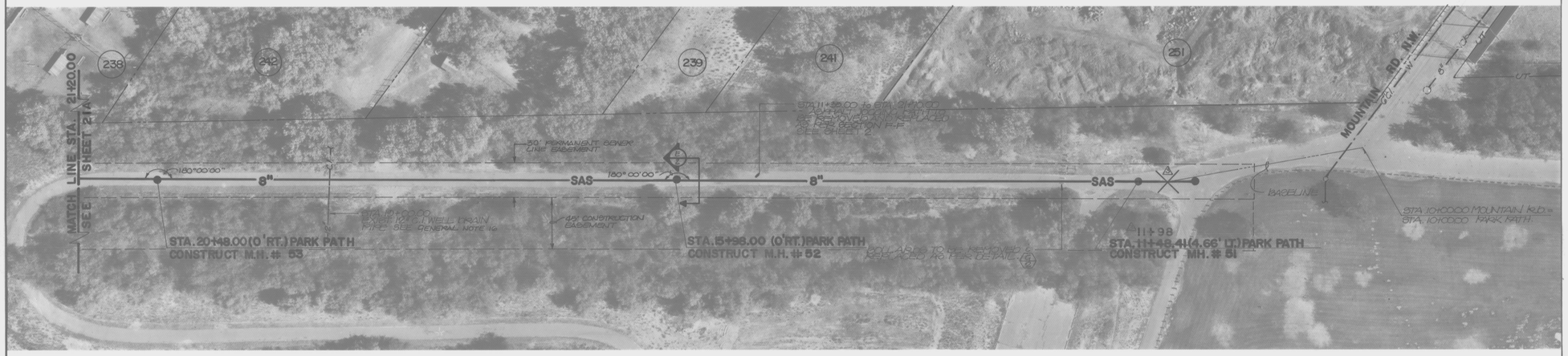
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

1	2	3	4	5	6	7	8	9	10	11	12
26	29	86	21	88	A						

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	21A	41

RECORD DRAWING

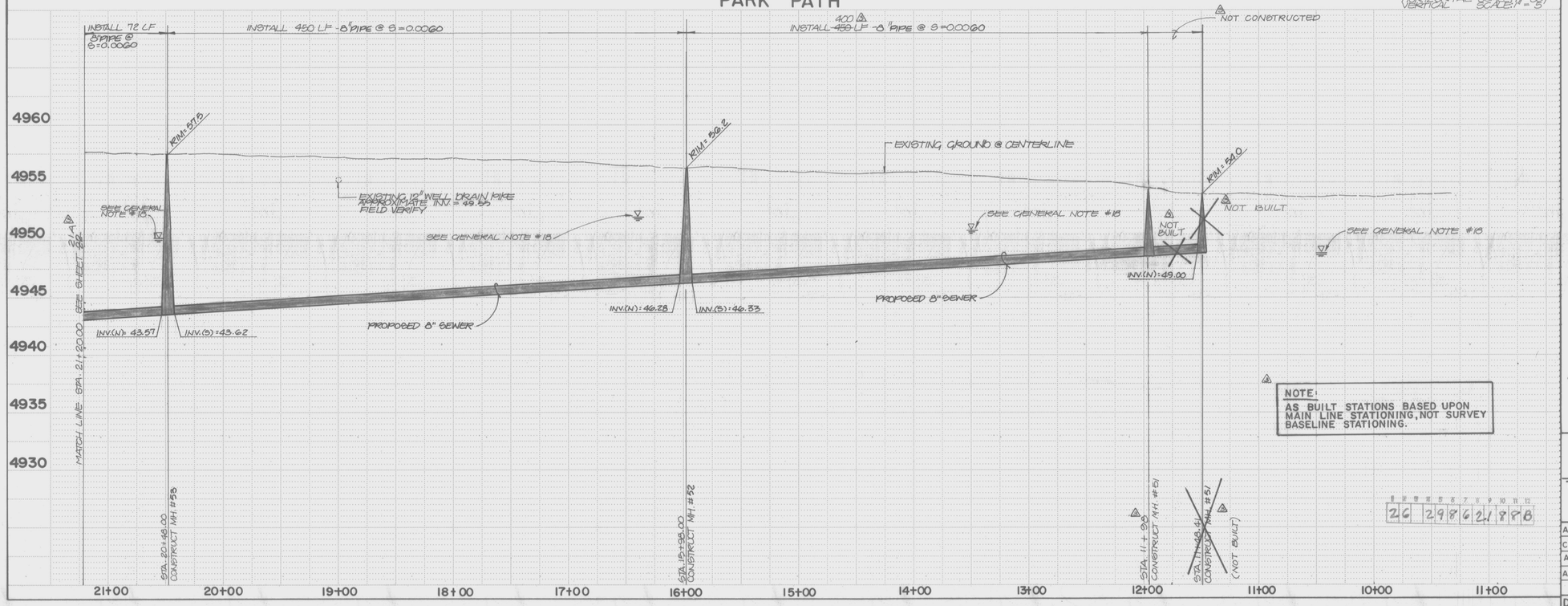
AF 22440B



NOTE:
1. ALL MANHOLES SHALL BE 4' DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STD. DWG. S-2, UNLESS NOTED OTHERWISE.

PARK PATH

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



NOTE:
AS BUILT STATIONS BASED UPON MAIN LINE STATIONING, NOT SURVEY BASELINE STATIONING.

26 29 8 6 21 8 8

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen
NMPE/LS #8547
08-04-88
Date

STATE OF NEW MEXICO JEFFREY G. MORTENSEN 8547 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	AS-BUILT	REMARKS	BY
1	6/88			SKG

MICROGRAPHIC & DATA CONVERSION BY KOOGLE & POULS ENGINEERING 6338A COMANCHE N.E. - ALBUQUERQUE, N.M. 87110

MORTENSEN & ASSOCIATES ENGINEERS 811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-G12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (MSL.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO PROFESSIONAL ENGINEER THOMAS T. NAUNDORF 9-26-88 REGISTERED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

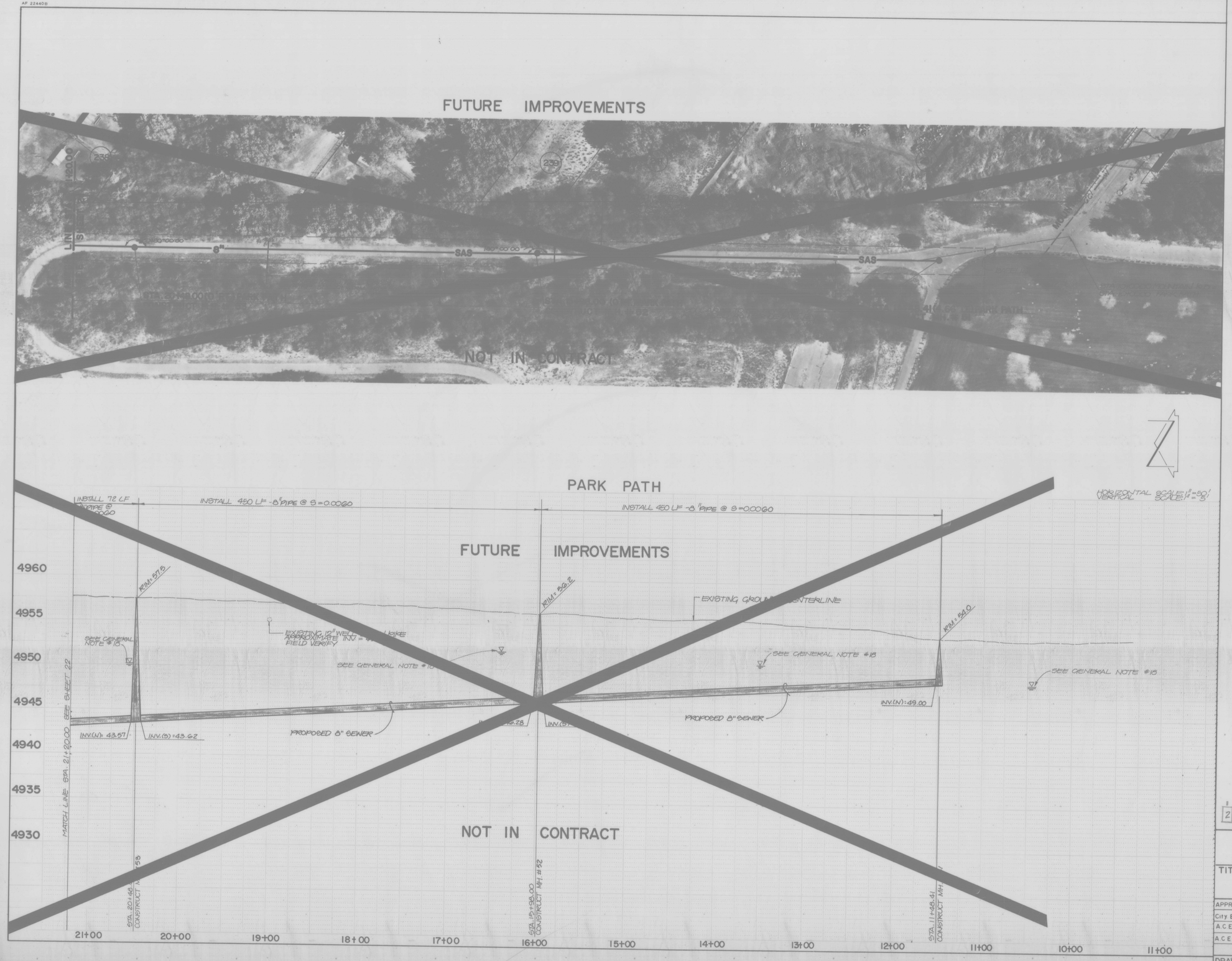
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PARK PATH 11+48 TO STA. 21+20
MOUNTAIN RD. NW. STA. 10+00 TO STA. 11+06.80

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	J-12	21B	41

RECORD DRAWING

AF 22440B



PHOTOGRAPHY & PHOTOGRAMMETRY PRODUCTION BY KOOGLE & POULS ENGINEERING 5334 COMANCHE N.E. ALBUQUERQUE, N.M. 87110

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS

A STANDARD ACS BRASS TABLET, 3-1/2" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4903.22 FT. (NGVD)

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	
INSPECTORS FIELD TANCE BY	DATE
VERIFICATION BY FIELD	DATE
CORRECTIONS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. HUNT — 9-26-88

NO.	DATE	REMARKS	BY

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110 ENGINEERS

CONLEY/HUNT ASSOCIATES INC.

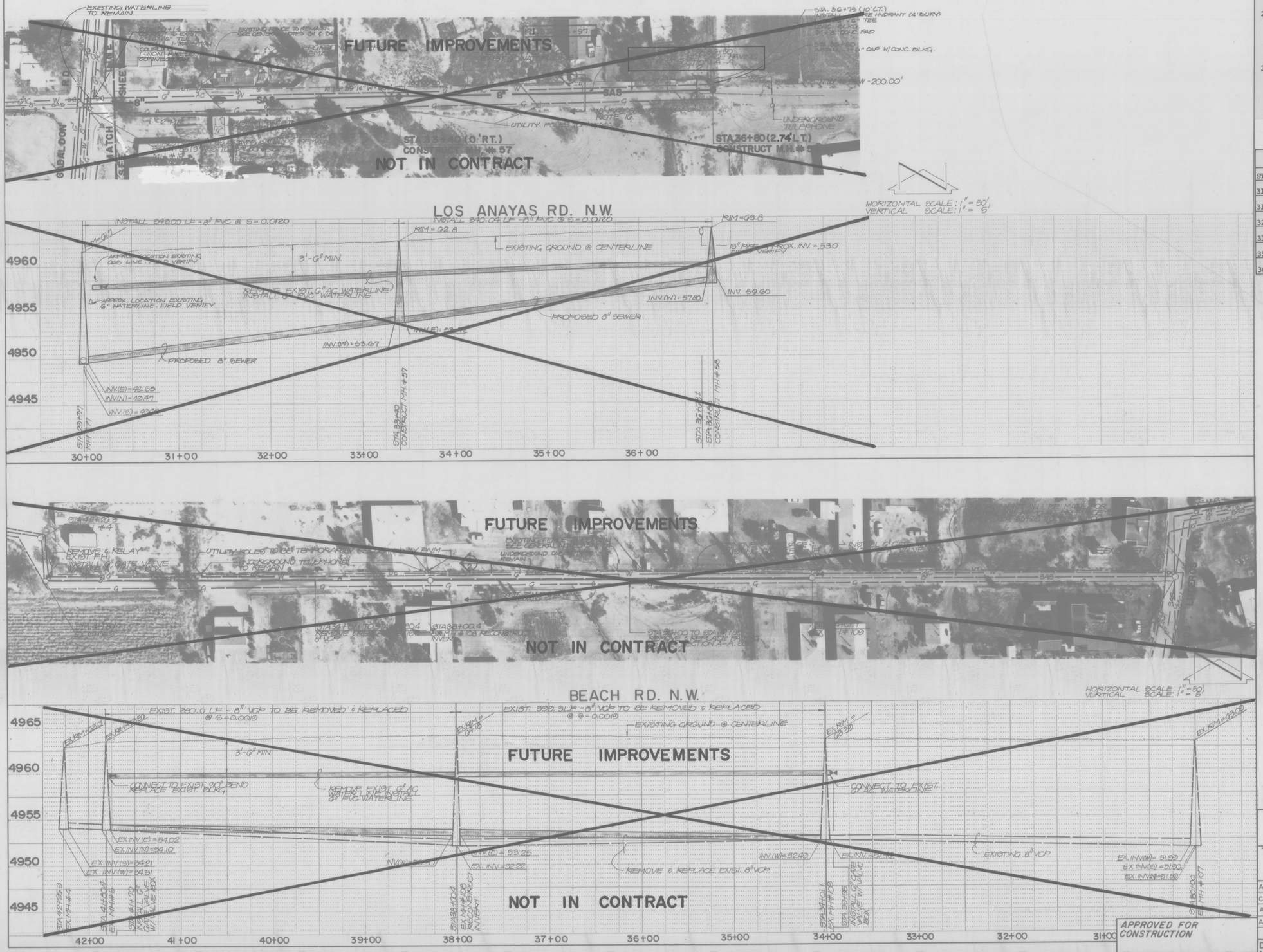
1 2 3 4 5 6 7 8 9 10 11 12
2 6 2 9 8 6 2 2 8 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
PARK PATH 10+00 TO STA. 21+20
MOUNTAIN RD. NW. STA. 10+00 TO STA. 11+06.80

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/31/88

DRAWING NO.	MAP NO.	SHEET	OF
2986	J-12	22	41



NOTES:

1. PAVEMENT CUTS SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING P-25.
2. WHERE AN EXISTING WATERLINE IS TO BE REPLACED AND AN EXISTING WATER SERVICE IS ENCOUNTERED THE WATER SERVICE SHALL BE RECONNECTED TO THE NEW LINE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-10.
3. PRIOR TO SEWER SERVICE INSTALLATION THE CONTRACTOR IS TO LOCATE EXISTING WATER SERVICE LINES. SEWER SERVICES ARE TO MAINTAIN 10' HORIZONTAL SEPARATION FROM EXISTING WATER SERVICE LINES.

SEWER SERVICE STATIONING

STA	RISER INV.	SERVICE INV.	DETAIL
31+65		LT. 4958.00	COA STD. DWG. S-9
31+95		RT. 4958.20	COA STD. DWG. S-9
32+50	4956.30		L/3
33+25	4956.50		L/3
35+38		LT. 4958.50	COA STD. DWG. S-9
36+30		LT. 4959.60	COA STD. DWG. S-9

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, 3"-3½" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4963.22 FT. (1973 L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MANN, JR. — 9-26-82

NO.	DATE	REMARKS	BY

911 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110
ENGINEERS

26 2986 2388

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

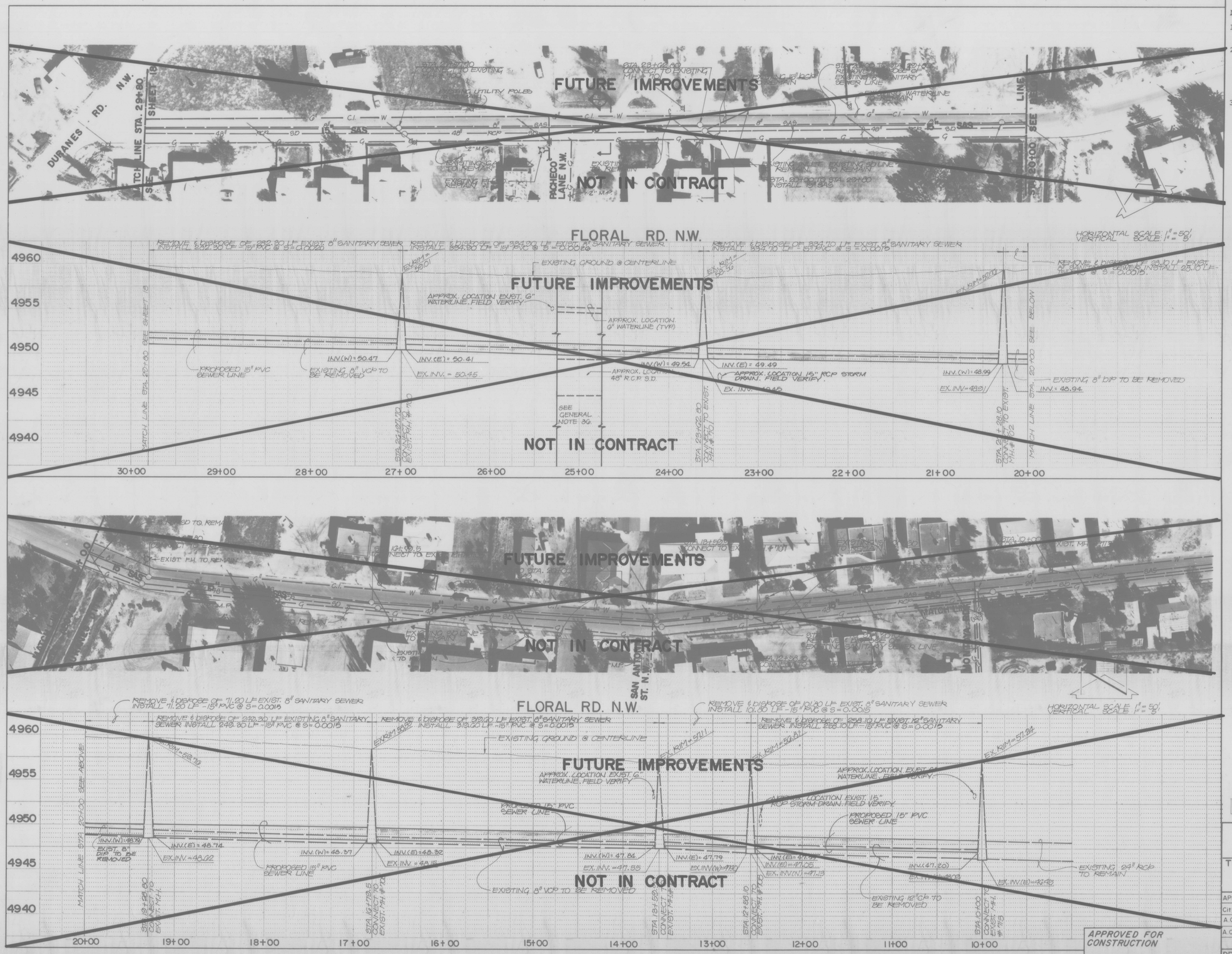
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
LOS ANAYAS RD. N.W. STA. 29+97 TO 36+80
BEACH RD. N.W. STA. 30+00 TO 42+26.3

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		9/21/82
A.C.E.- Design			Traffic		
A.C.E.-Hydrology			Water		9/21/82

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

DRAWING NO. 2986 | MAP NO. H·12 | SHEET 23 OF 41

PHOTOGRAPHY & PHOTO REPRODUCTION BY
KOOGLE & POULS ENGINEERING
5700 COMANCHE N.E. ALBUQUERQUE, N.M. 87110



NOTES:

1. PAVEMENT CUTS SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING P-25.
2. WHERE AN EXISTING SEWER MAIN IS TO BE REPLACED, AND AN EXISTING SEWER SERVICE IS ENCOUNTERED, THE SEWER SERVICE SHALL BE RECONNECTED IN THE MANNER AND DIRECTION ORIGINALLY FOUND.
3. PRIOR TO THE RECONSTRUCTION OF A MANHOLE INVERT: THOROUGHLY CLEAN ALL CONTACT SURFACES.

AS BUILT INFORMATION

CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR'S ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE

MICRO-FILM INFORMATION

RECORDED BY | DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, 1/2-20 x 1 SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4993.22 FT. (MSL.D)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

NO.	DATE	REMARKS	BY

PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS I. MOORE — REGISTERED

911 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLER & POULS ENGINEERING
8338A COMANCHE N.E. ALBUQUERQUE, N.M. 87110

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

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

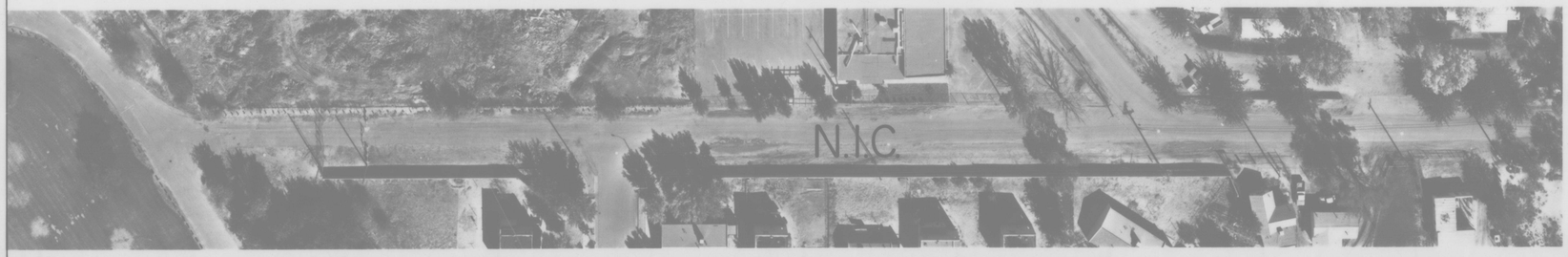
TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
FLORAL ROAD N.W.

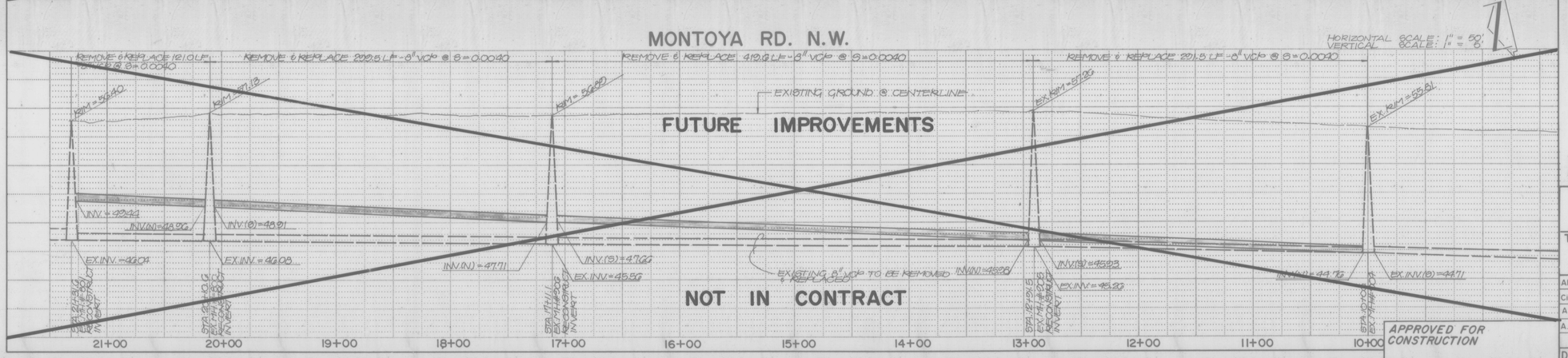
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		4/31/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		4/31/88

APPROVED FOR CONSTRUCTION

CITY ENGINEER | DATE

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-12	24	41





NOTES:

1. PAVEMENT CUTS SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING P-25.
2. WHERE AN EXISTING SEWER MAIN IS TO BE REPLACED, AND AN EXISTING SEWER SERVICE IS ENCOUNTERED, THE SEWER SERVICE SHALL BE RECONNECTED IN THE MANNER AND DIRECTION ORIGINALLY FOUND.
3. PRIOR TO THE RECONSTRUCTION OF A MANHOLE INVERT: THOROUGHLY CLEAN ALL CONTACT SURFACES.

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, 1'5"-G/12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4980.22 FT. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MANN, JR. — 9-26-86

NO.	DATE	REMARKS	BY

811 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

26 2986 2588

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
MONTOYA ROAD N.W. STA. 10+00 TO STA. 21+40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/86
A.C.E.- Design			Traffic		
A.C.E.-Hydrology			Water		10/31/86

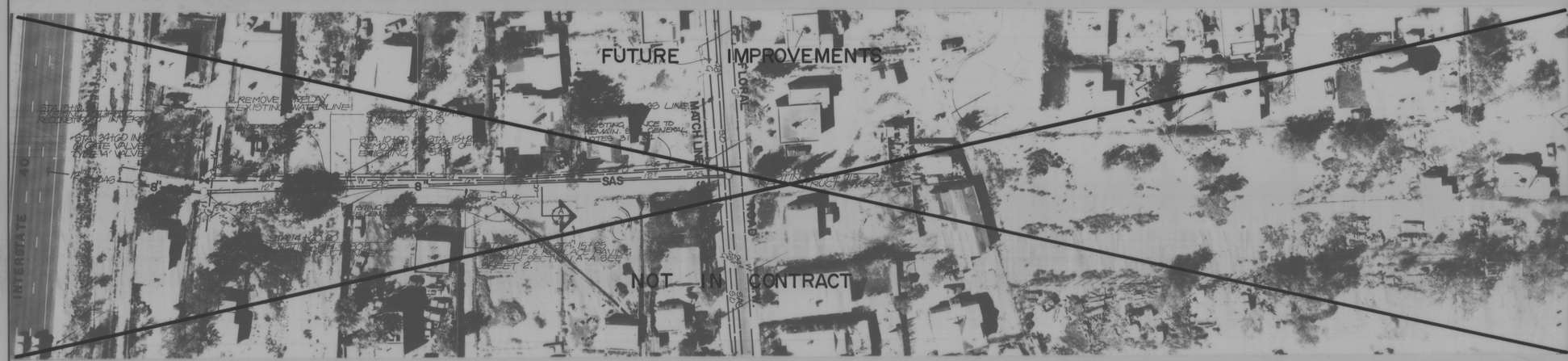
APPROVED FOR CONSTRUCTION

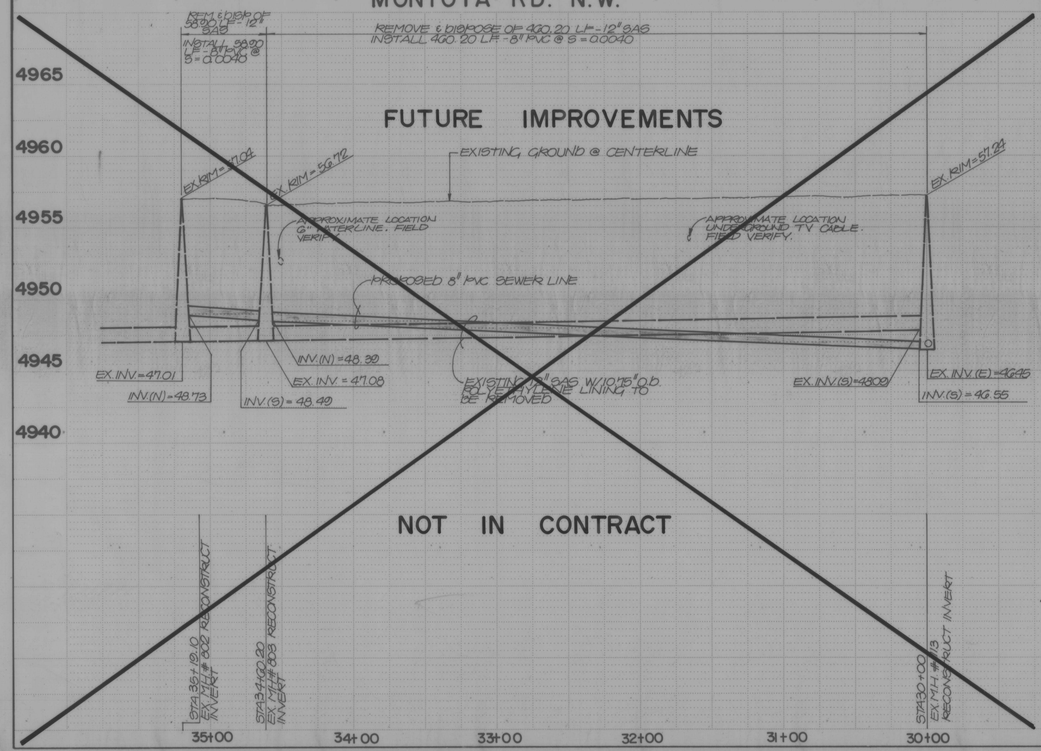
CITY ENGINEER — DATE

DRAWING NO. 2986 — MAP NO. J-12 — SHEET 25 OF 41

PHOTOGRAPHY & PHOTO REPRODUCTION BY KOOGLE & POULS ENGINEERING
11224 COMANCHE N.E. - ALBUQUERQUE, N.M. 87123

AF 22440B





HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTES:

1. PAVEMENT CUTS SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING P-25.
2. WHERE AN EXISTING SEWER MAIN IS TO BE REPLACED, AND AN EXISTING SEWER SERVICE IS ENCOUNTERED, THE SEWER SERVICE SHALL BE RECONNECTED IN THE MANNER AND DIRECTION ORIGINALLY FOUND.
3. PRIOR TO THE RECONSTRUCTION OF A MANHOLE INVERT: THOROUGHLY CLEAN ALL CONTACT SURFACES.

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	
INSPECTORS FIELD CHANGE BY	DATE
VERIFICATION BY FIELD	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-6 1/2" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4903.22 FT. (M.G.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS T. MANN, JR. — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

811 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS
MANN ASSOCIATES

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

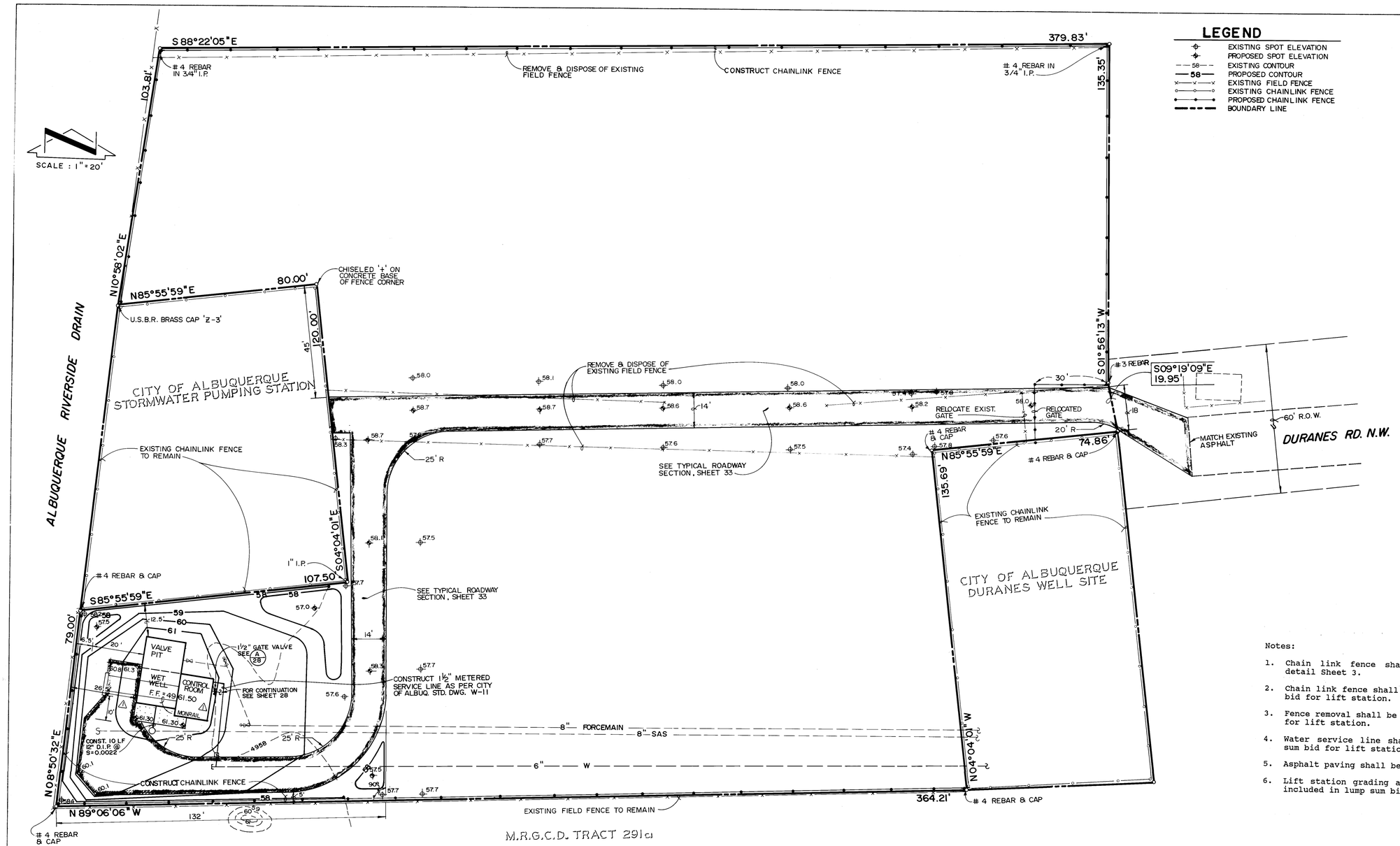
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: SANITARY SEWER IMPROVEMENTS PLAN & PROFILE
MONTOYA ROAD N.W. STA 30+00 TO STA. 35 + 25

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	H·12	26	41

MICROGRAPHS & PHOTOGRAPHS PRODUCTION BY
KOOGLE & POULS ENGINEERING
8123 COMANCHE N.E. - ALBUQUERQUE, N.M. 87110



LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- 58 EXISTING CONTOUR
- 58 PROPOSED CONTOUR
- EXISTING FIELD FENCE
- EXISTING CHAINLINK FENCE
- PROPOSED CHAINLINK FENCE
- BOUNDARY LINE

Notes:

1. Chain link fence shall be constructed as per detail Sheet 3.
2. Chain link fence shall be included in lump sum bid for lift station.
3. Fence removal shall be included in lump sum bid for lift station.
4. Water service line shall be included in lump sum bid for lift station.
5. Asphalt paving shall be per unit price bid.
6. Lift station grading and landscaping shall be included in lump sum bid for lift station.

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD A.C.S. BRASS TABLET, #B-G12, SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. & MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEVATION = 4963.22 FEET (MS.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	W.O. NO.
EST. NO.	

NO.	DATE	REMARKS	BY
3	1/22/87	ADDITIONAL GRADES ACCESS ROAD	SKS
2	11/25/86	REVISE PAVING LIMITS WEST SIDE OF BLDG.	EAG
1			

MARTINEZ & ASSOCIATES, INC.
811 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

26 2986 2788

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR — STATE OF NEW MEXICO — THOMAS J. MARTINEZ — 3982

APPROVED FOR CONSTRUCTION

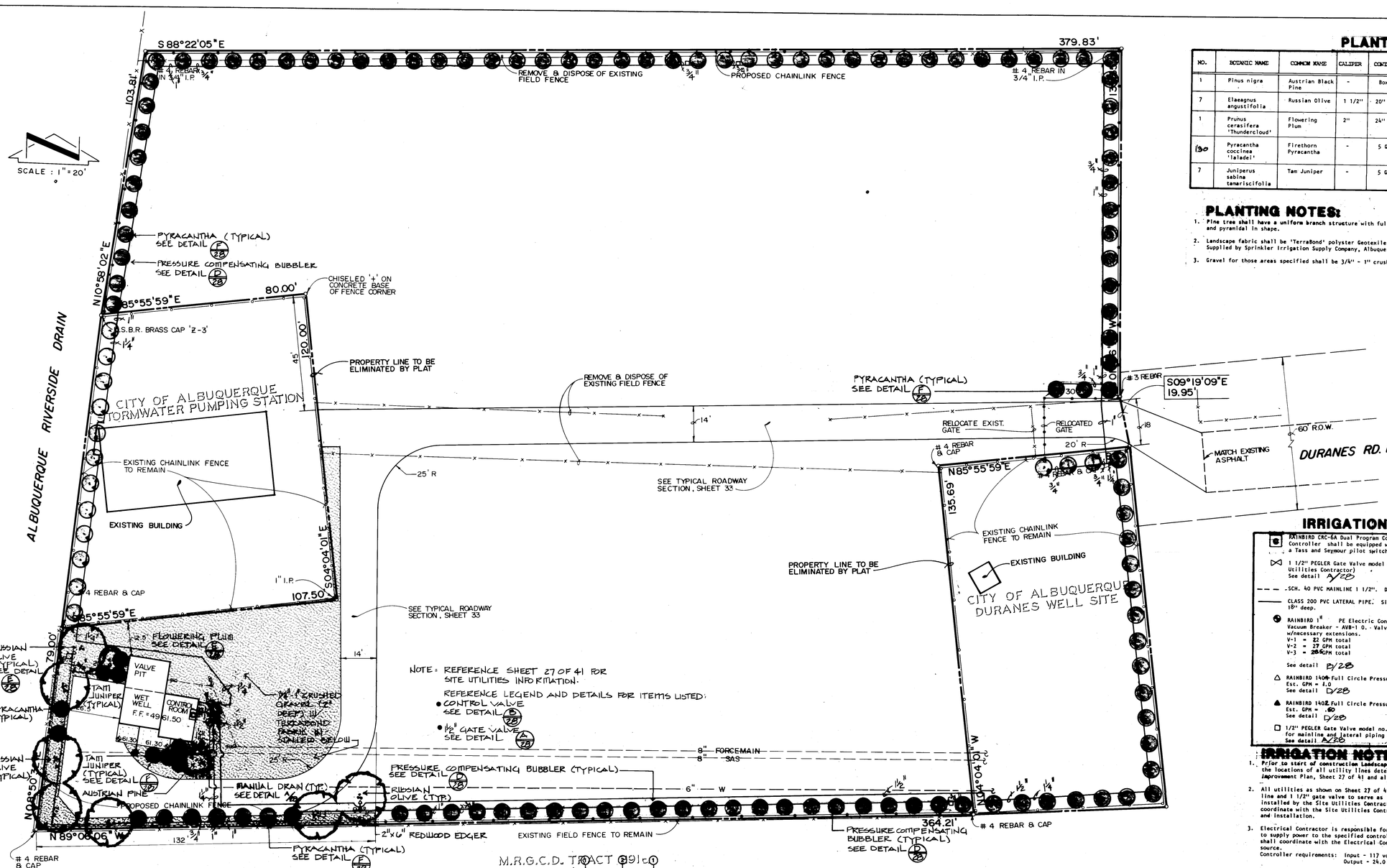
CITY ENGINEER — DATE

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
SITE IMPROVEMENTS PLAN

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

DRAWING NO.	MAP NO.	SHEET	OF
2986	H12	27	41



PLANT LIST

NO.	BOTANIC NAME	COMMON NAME	CALIPER	CONTAINER	HEIGHT	SPREAD	DISTANCE BETWEEN TOP OF ROOTBALL AND LOWEST BRANCH	COMMENTS
1	Pinus nigra	Austrian Black Pine	-	Boxed	8 ft.	4 ft. min.	18" max.	-
7	Elaeagnus angustifolia	Russian Olive	1 1/2"	20" Box	9 ft.	7 ft.	5' min.	Multi-trunk
1	Prunus cerasifera 'Thundercloud'	Flowering Plum	2"	24" Box	10 ft.	6 ft.	3' min.	-
130	Pyracantha coccinea 'Lalandei'	Firethorn Pyracantha	-	5 Gal.	-	-	-	10' o.c. maximum spacing
7	Juniperus sabina tamariscifolia	Tam Juniper	-	5 Gal.	-	-	-	6' o.c. maximum spacing

PLANTING NOTES:

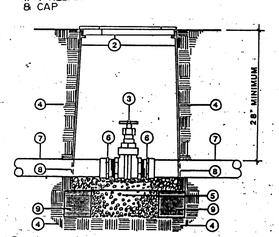
1. Pine tree shall have a uniform branch structure with full dense needle development and shall be symmetrical and pyramidal in shape.
2. Landscape fabric shall be 'TerraBond' polyster Geotexile Fabric as manufactured by Warren's Turf Nursery, Inc. Supplied by Sprinkler Irrigation Supply Company, Albuquerque, New Mexico (505) 881-4050.
3. Gravel for those areas specified shall be 3/4" - 1" crushed grey, 2" deep with terrabond fabric below.

IRRIGATION LEGEND

- RAINBIRD CRC-6A Dual Program Computer Controller Controller shall be equipped with an electrical pigtail outlet and a Tass and Seymour pilot switch and receptacle 15ACI-RPL.
- 1 1/2" PEGLER Gate Valve model no. B-68-IPS (to be installed by Site Utilities Contractor) See detail A/28
- SCH. 40 PVC MAINLINE 1 1/2". Depth of bury shall be 28" deep.
- CLASS 200 PVC LATERAL PIPE. Sized as marked. Depth of bury shall be 18" deep.
- RAINBIRD 1" PE Electric Control Valve w/RAINBIRD 1" Atmospheric Vacuum Breaker - AVB-1 O. - Valve to be installed in Std. Ametek valve box w/necessary extensions.
  V-1 = 22 GPM total
  V-2 = 27 GPM total
  V-3 = 28 GPM total
  See detail B/28
- RAINBIRD 1406 Full Circle Pressure Compensating Bubbler Est. GPM = 1.0 See detail D/28
- RAINBIRD 1402 Full Circle Pressure Compensating Bubbler Est. GPM = .60 See detail D/28
- 1/2" PEGLER Gate Valve model no. B-68-IPS, to be utilized as manual drain for mainline and lateral piping as shown on plan. See detail A/28

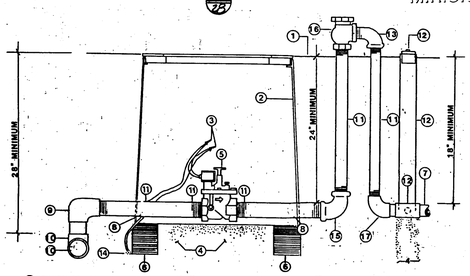
IRRIGATION NOTES:

1. Prior to start of construction Landscape Contractor shall mark with stakes the locations of all utility lines determined by verification with Site Improvement Plan, Sheet 27 of 41 and all public utilities.
2. All utilities as shown on Sheet 27 of 41 including 1 1/2" irrigation supply line and 1 1/2" gate valve to serve as irrigation connection point shall be installed by the Site Utilities Contractor. Landscape Contractor shall coordinate with the Site Utilities Contractor to ensure location of equipment and installation.
3. Electrical Contractor is responsible for providing necessary conduit and wire to supply power to the specified controller location. Landscape Contractor shall coordinate with the Electrical Contractor to ensure location of power source.
   Controller requirements: Input - 117 volt AC, 60 Hz
   Output - 24.0 VAC, .75 amps
4. At the completion of the project, the Landscape Contractor shall coordinate the final controller program with the Owner's maintenance representative.
5. This system is designed for 35 GPM. Pressure at the point of connection is estimated to be 60 PSI. Contractor shall verify pressure prior to installation of irrigation system.
6. Mainline and valve locations as shown on the plan are schematic ONLY. Contractor shall locate mainline and valves in landscape areas wherever possible.



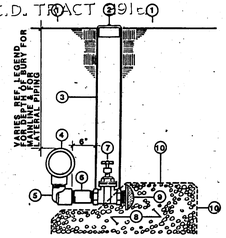
1. FINISH GRADE
2. STANDARD AMETEX BOX W/EXTENSIONS
3. PEGLER BRONZE GATE VALVE W/ CROSS HANDLE
4. SUBGRADE COMPACTED TO 95%
5. 2 CUBIC FEET 1" ϕ GRAVEL
6. PVC MALE ADAPTER
7. MAINLINE
8. CUT FOR MAINLINE
9. 8"x8"x16" SOLID CMU

BRONZE GATE VALVE ASSEMBLY N.T.S.



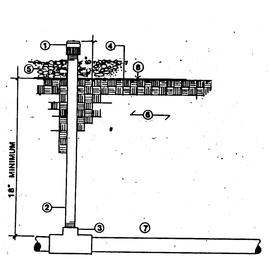
1. FINISH GRADE
2. STANDARD AMETEK VALVE BOX W/EXTENSIONS
3. SPEARS DRI-SPLICE CONNECTORS
4. GRAVEL SUMP 2 CUBIC FEET.
5. AUTOMATIC VALVE (SEE PLAN)
6. 8"x8"x16" SOLID CMU
7. SCH. 40 PVC MAIN LINE
8. CUT OUT FOR LATERAL
9. SCH. 40 SxT PVC ELL
10. MAINLINE & MAINLINE FITTING
11. GALV. NIPPLE
12. MANUAL DRAIN SEE DETAIL
13. GALV. STREET ELL
14. WIRE BUNDLE
15. GALV. ELL
16. ATMOSPHERIC VACUUM BREAKER.
17. SCH. 40 PVC SxT-ELL

AUTOMATIC VALVE ASSEMBLY N.T.S.



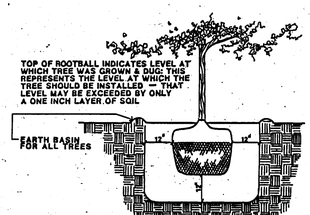
1. FINISH GRADE
2. 2" LOCKING VALVE MARKER
3. 2" CLASS 160 PVC
4. LATERAL LINE
5. PVC STREET ELL
6. SCH. 80 PVC NIPPLE
7. BRASS GATE VALVE W/ CROSS HANDLE
8. 2 CUBIC FEET 1 1/2" GRAVEL
9. KING AUTOMATIC DRAIN
10. 6 MIL POLYETHYLENE BLACK PLASTIC

MANUAL DRAIN N.T.S.



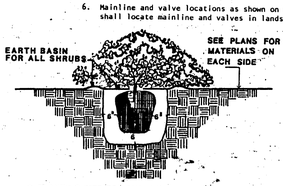
1. BUBBLER
2. SCH. 80 PVC MOLDED NIPPLE
3. SCH. 40 PVC FITTING
4. FINISH GRADE
5. 3/4"-1" CRUSHED GRAVEL 2" DEEP
6. BACKFILL AS PER PLANS & SPECIFICATIONS
7. LATERAL PIPING
8. LANDSCAPE FABRIC

BUBBLER DETAIL N.T.S.



- PLANTING PITS SHALL BE TWO FEET GREATER IN DIAMETER THAN THE ROOTBALL AND TWELVE INCHES GREATER THAN THE DEPTH OF THE ROOTBALL.
- BACKFILL SHALL CONSIST OF THREE PARTS EXISTING SOIL AND ONE PART PEAT MOSS

TREE DETAIL (TYPICAL) N.T.S.



- PLANTING PITS FOR SHRUBS SHALL BE ONE FOOT GREATER IN DIAMETER THAN ROOTBALL AND SIX INCHES GREATER IN DEPTH THAN THE ROOTBALL.
- BACKFILL SHALL CONSIST OF THREE PARTS EXISTING SOIL & ONE PART PEAT MOSS

SHRUB DETAIL (TYPICAL) N.T.S.

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

AS BUILT INFORMATION

INITIAL INFO. — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
REVISIONS/DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-C12," SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. & MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEVATION = 4963.22 FEET (MSL.D)

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

REFERENCES

MAP NO. — W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

DENNIS C. WILKINSON AND ASSOCIATES
LANDSCAPE ARCHITECTURE-DEVELOPMENT PLANNING
P.O. BOX 1542 — 505/897-7430
CORRALES, NEW MEXICO 87048

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

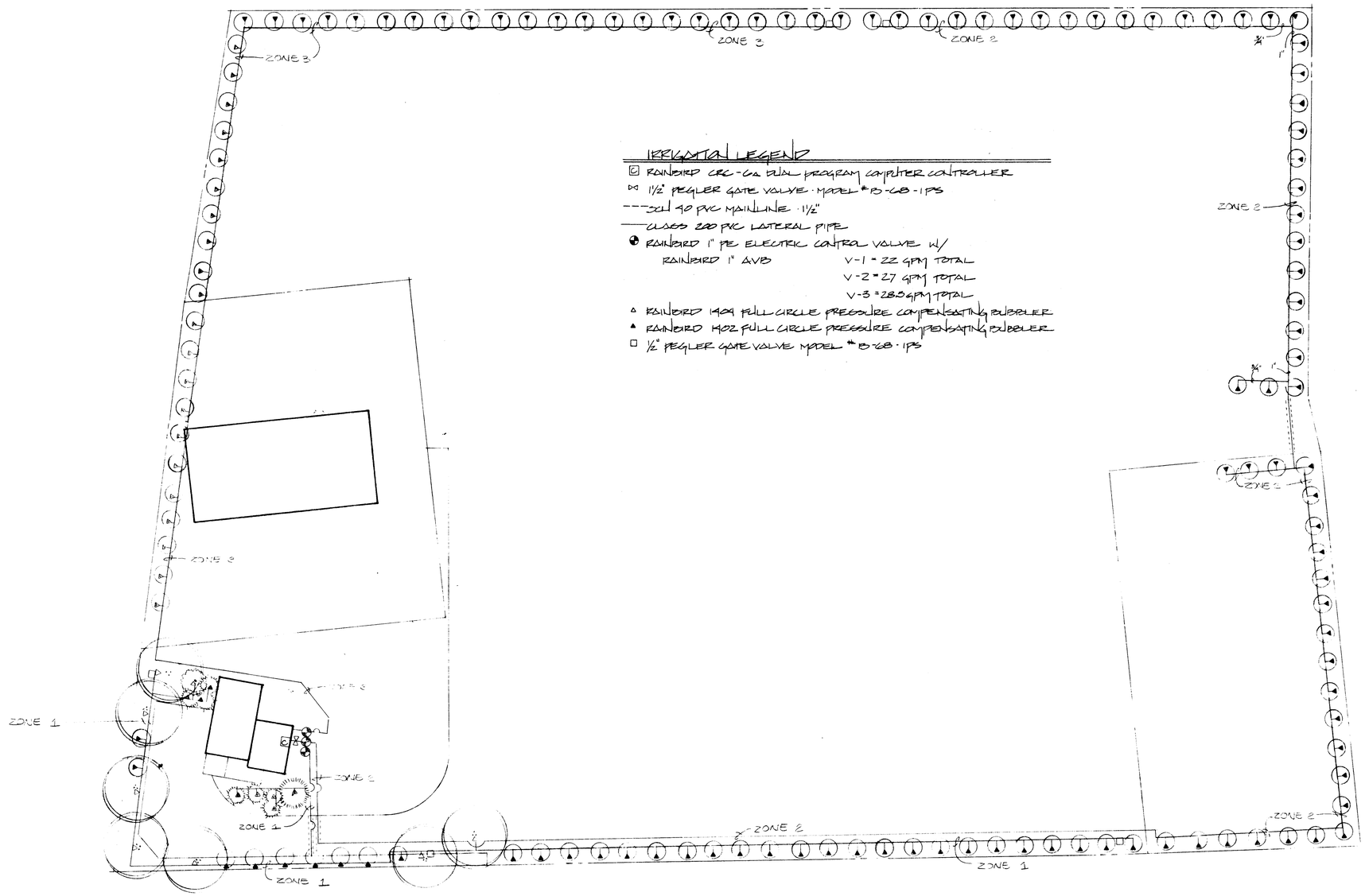
TITLE:
DURANES LIFT STATION
LANDSCAPE PLANTING & IRRIGATION PLAN

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

DRAWING NO. 2986 — MAP NO. H12 — SHEET 28 OF 41

26 2986 2888

SEE SHEET 28A FOR AS-BUILT CONDITIONS



IRRIGATION LEGEND

- ☐ RAINBIRD CRC-6A DUAL PROGRAM COMPUTER CONTROLLER
- ⋈ 1½" PEGLER GATE VALVE · MODEL # B-68-IPS
- --- SCH 40 PVC MAINLINE · 1½"
- —— CLASS 200 PVC LATERAL PIPE
- ◕ RAINBIRD 1" PE ELECTRIC CONTROL VALVE W/ RAINBIRD 1" AVB
  - V-1 = 22 GPM TOTAL
  - V-2 = 27 GPM TOTAL
  - V-3 = 28.5 GPM TOTAL
- △ RAINBIRD 1404 FULL CIRCLE PRESSURE COMPENSATING BUBBLER
- ▲ RAINBIRD 1402 FULL CIRCLE PRESSURE COMPENSATING BUBBLER
- ☐ ½" PEGLER GATE VALVE MODEL # B-68 · IPS

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

DATE 10·23·87
SCALE 1" = 20'-0"
NORTH

DURANES LIFT STATION

LANDSCAPE · IRRIGATION PLAN 'AS BUILTS'

Heads Up
LANDSCAPE CONTRACTORS
7525 SECOND ST. N.W.
ALB., N.M. (505) 898-9615

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY		DATE
NO		

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-G12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 ft. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD N.W. AND MATTHEW AVE N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W. ELEV. = 4963.22 ft. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

△3 AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen 08·04·88
Jeffrey G. Mortensen Date
NMPE #8547

JEFFREY G. MORTENSEN 8547

REVISIONS

NO	DATE	REMARKS	BY
△3	6/88	AS-BUILT	SKS

DESIGN

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
DURANES LIFT STATION
LANDSCAPE- IRRIGATION PLAN "AS-BUILTS"

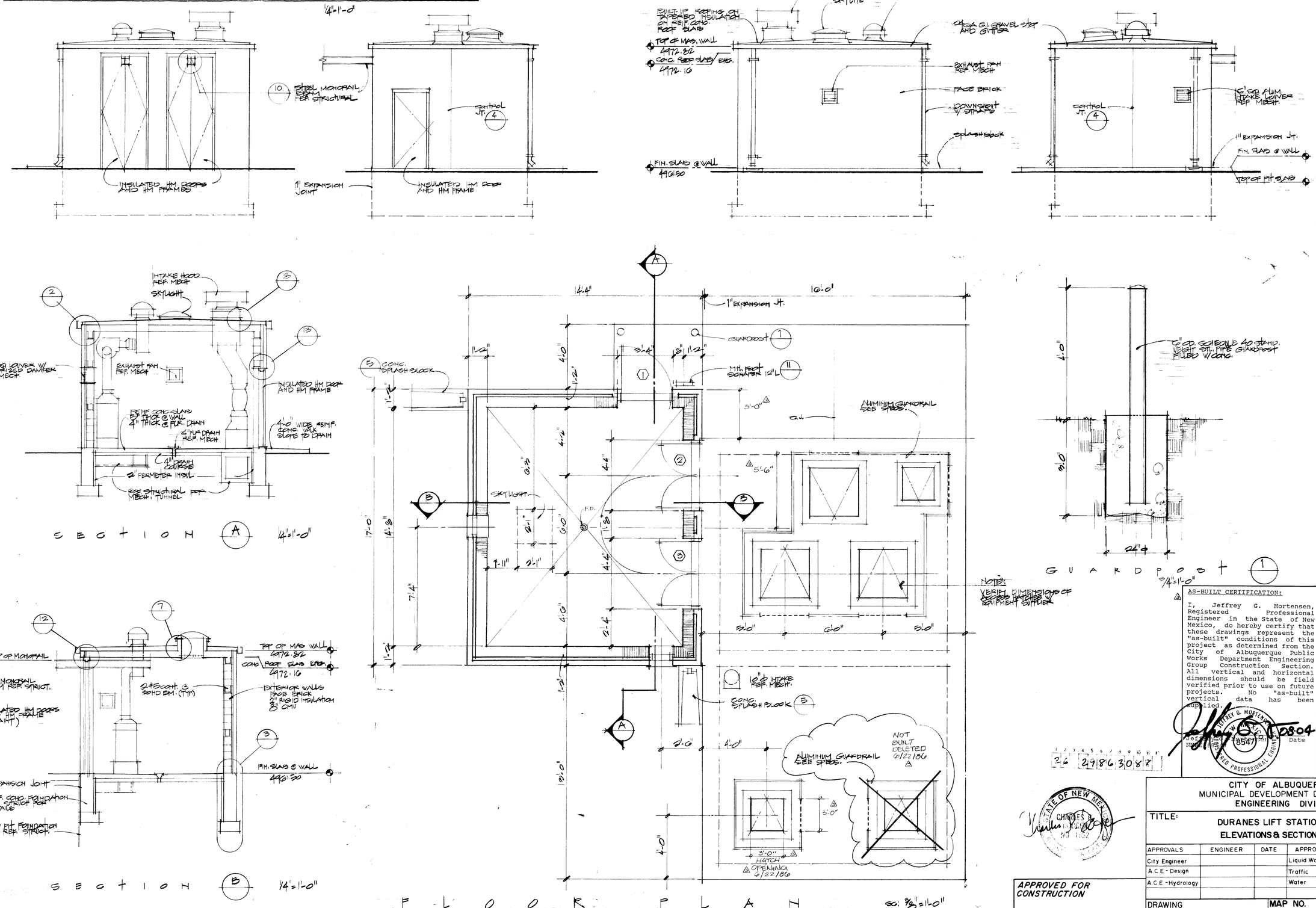
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO.	MAP NO.	SHEET	OF
2986	H12	28A	41

RECORD DRAWING

EXTERIOR ELEVATIONS

1/4"=1'-0"



AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen, NEW MEXICO 8547, REGISTERED PROFESSIONAL ENGINEER — Date 08-04-88

26 2986 3087

STATE OF NEW MEXICO — CHARLES B. [illegible] — NO. 1602

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR ACCEPTANCE	DATE
FIELD CHANGES MADE BY	DATE
DRAWINGS CORRECTED BY	DATE
RECORDED BY	DATE

NO

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-G12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4963.22 FT. (M.S.L.D.)

MICRO-FILM INFORMATION

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	EST. NO.	W.O. NO.

REMARKS

NO.	DATE	AS-BUILT	BY
1	7/88		G.C.J.

BII DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110

ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

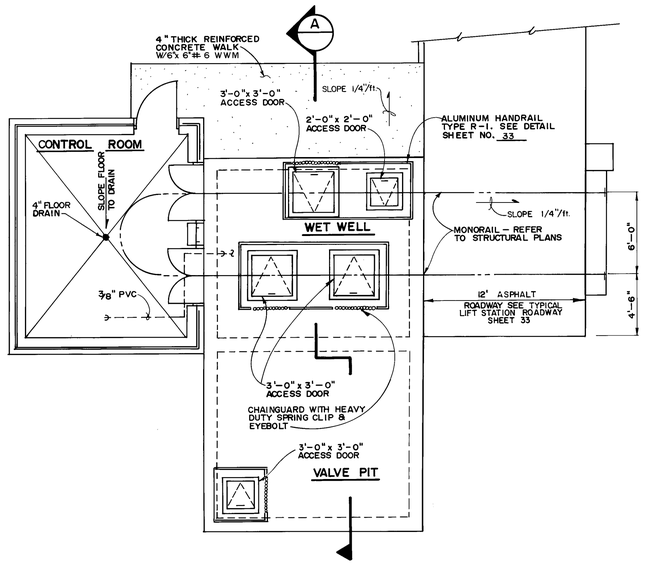
TITLE: DURANES LIFT STATION ELEVATIONS & SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/31/88
A.C.E - Design			Traffic		
A.C.E - Hydrology			Water		10/31/88

DRAWING NO. 2986 | MAP NO. H 12 | SHEET 30 OF 41

RECORD DRAWING

N28109



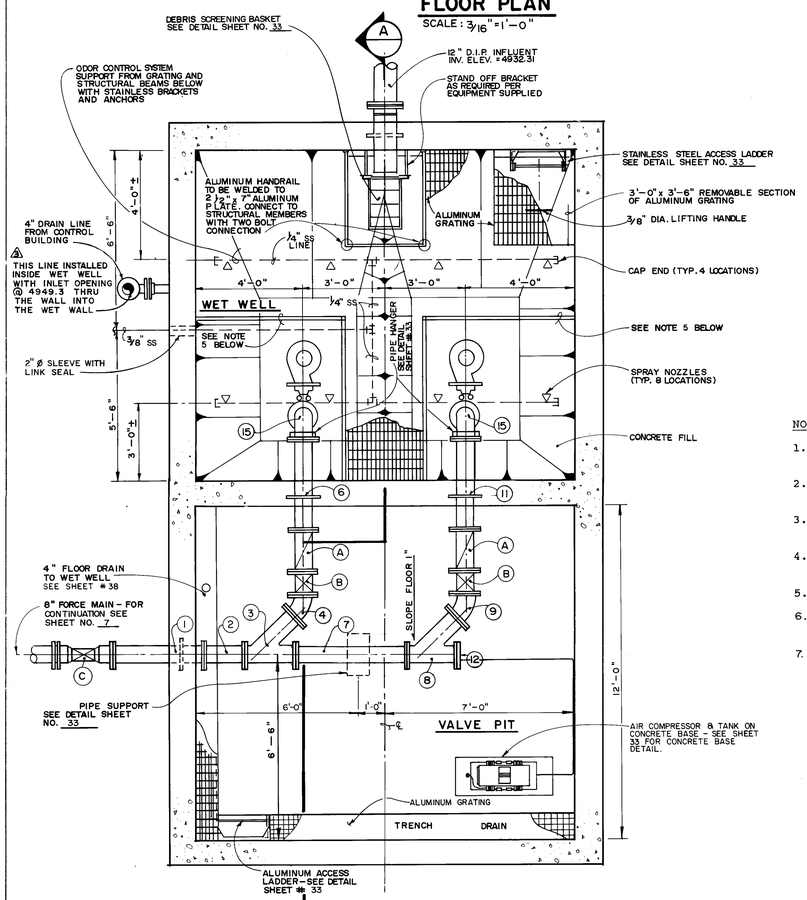
FLOOR PLAN

SCALE: 3/16" = 1'-0"

PIPING SCHEDULE	
ITEM NO.	DESCRIPTION
1	8" WALL PIPE - LENGTH AS REQUIRED (FL X PE)
2	8" SPOOL - LENGTH AS REQUIRED
3	8" X 8" X 6" LATERAL
4	6" - 45° ELBOW
5	6" SPOOL - LENGTH AS REQUIRED (FL X GROOVED)
6	6" WALL PIPE - LENGTH AS REQUIRED
7	8" SPOOL - LENGTH AS REQUIRED
8	8" X 8" X 6" LATERAL
9	6" - 45° ELBOW
10	6" SPOOL - LENGTH AS REQUIRED (FL X GROOVED)
11	6" WALL PIPE - LENGTH AS REQUIRED
12	8" BLIND FLANGE WITH 1" TAP & PLUG
13	SUBMERSIBLE PUMP
14	6" SPOOL - LENGTH AS REQUIRED
15	6" - 90° ELBOW

VALVE SCHEDULE				
SYMBOL	SIZE	TYPE	OPERATOR	QTY
A	6"	CHECK	NA	2
B	6"	PLUG	HANDWHEEL	2
C	8"	PLUG	VALVE WRENCH	2

PUMP SCHEDULE	
ALL PUMPS OFF	4929.75
ONE PUMP ON	4930.58
TWO PUMPS ON	4931.00
HIGH WATER ALARM	4931.50

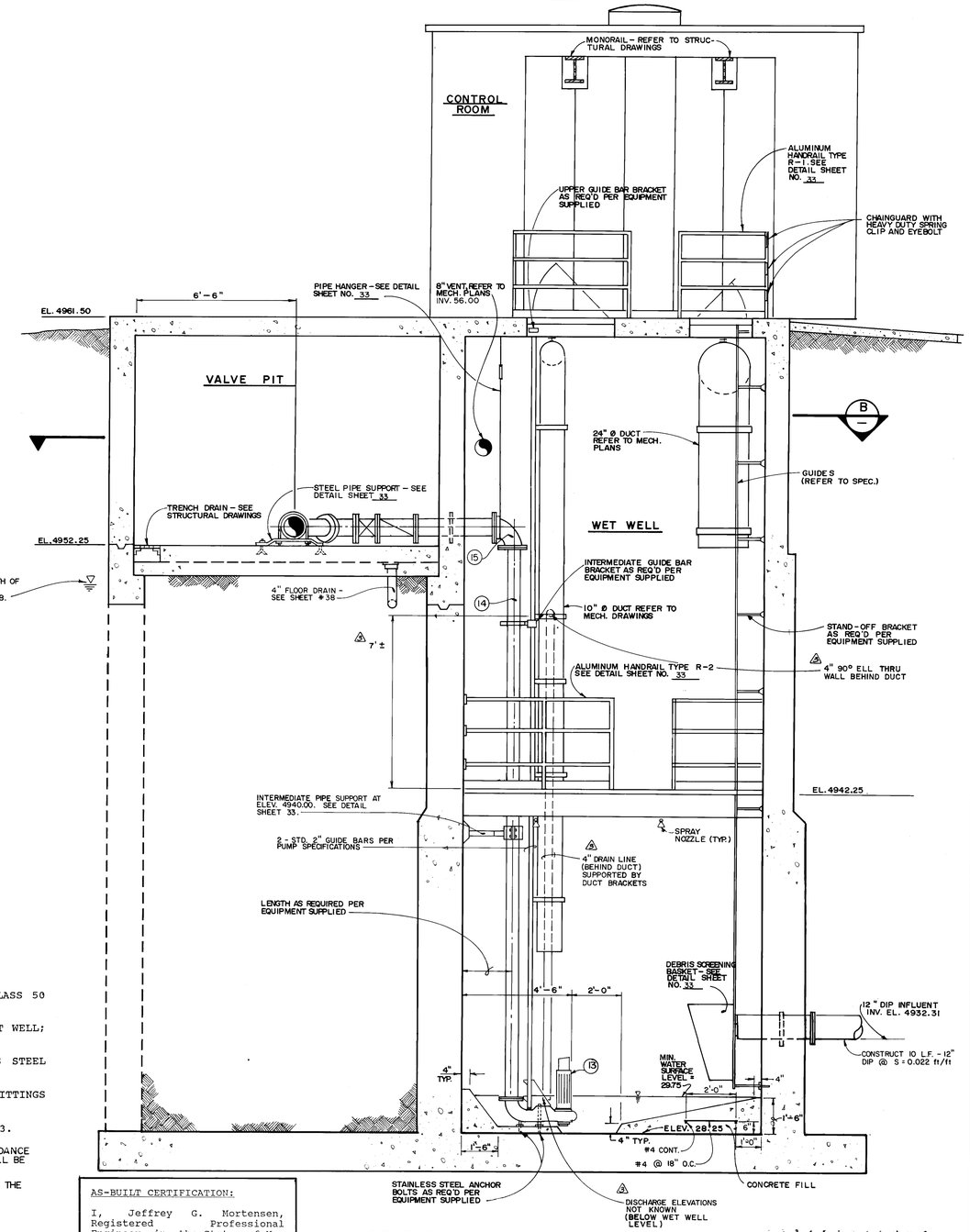


SECTION B

SCALE: 3/8" = 1'-0"

NOTES:

1. ALL INTERIOR PIPE TO BE POLY-LINED DUCTILE IRON CLASS 50 UNLESS NOTED OTHERWISE.
2. INSTALL CONCRETE LINER ON WALLS AND CEILINGS OF WET WELL; SEE PROJECT SPECIFICATIONS.
3. ALL METAL ITEMS WITHIN STRUCTURE TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
4. ALL PIPING WITHIN STRUCTURE SHALL HAVE FLANGED FITTINGS UNLESS NOTED OTHERWISE.
5. ALUMINUM HANDRAIL TYPE R-2 AS PER DETAIL SHEET NO. 33.
6. PENETRATIONS OF THE CONCRETE LINER SHALL BE SEALED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SEALANT SHALL BE ACCOMPLISHED SIMULTANEOUSLY WITH PLACEMENT OF ANCHORS.
7. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO INSURE THAT THE STRUCTURE DOES NOT FLOAT DURING CONSTRUCTION.



SECTION A

SCALE: 3/8" = 1'-0"

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen NM PE #8547 — Date 08-04-88

APPROVED FOR CONSTRUCTION

CITY ENGINEER — DATE

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

BENCH MARKS

A STANDARD ACS BRASS TABLET, '3-G12" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4963.22 FT. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO. H-12
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY
1	7/88	AS - BUILT	JGM

BII DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

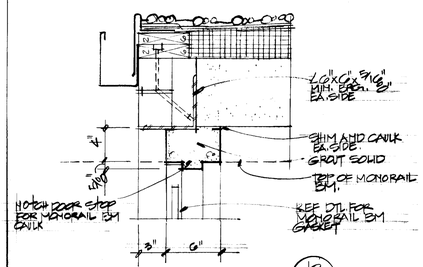
TITLE: DURANES LIFT STATION
PLAN & SECTIONS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/88
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		10/21/88

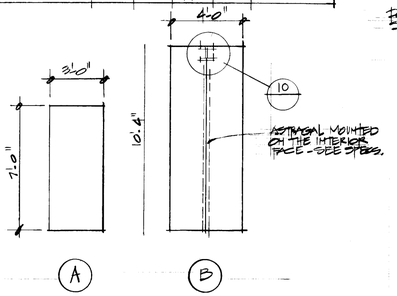
DRAWING NO. 2986 — MAP NO. H-12 — SHEET 32 OF 41

RECORD DRAWING

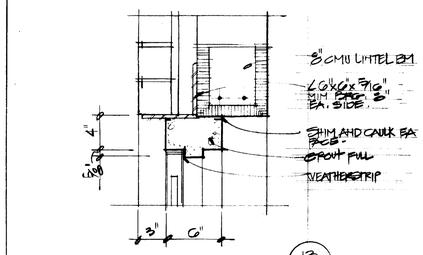
MARK	DIMENSIONS	ELEV.	DOOR MAT'L / FINISH	FRAME MAT'L / FINISH	ELEV.	HEAD	JAMB	SILL	REMARKS
1	1¾"x3'-0"x7'-0"	A	INSULATED HM/ PAINT	HM (PAINT)	1	13	14	15	
2	PR. 1¾"x2'-0"x10'-4"	B	"	"	2	12	14	15	
3	PR. 1¾"x2'-0"x10'-4"	B		"	2	12	14	15	



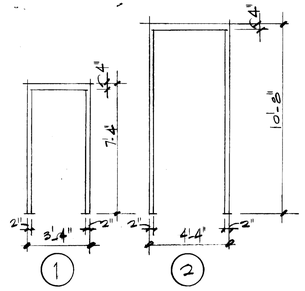
HEAD DTL (12)



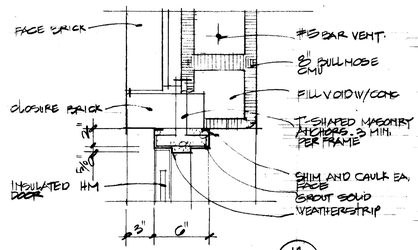
DOOR ELEVATIONS
1½"=1'-0"



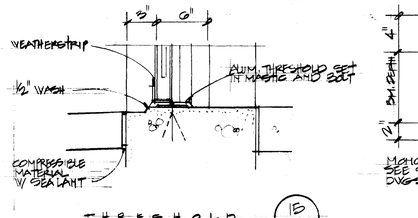
HEAD DTL (13)



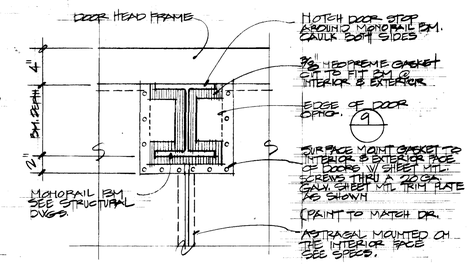
FRAME ELEVATIONS
1½"=1'-0"



JAMB DTL (14)

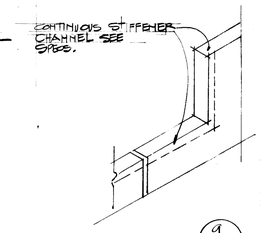


THRESHOLD (15)

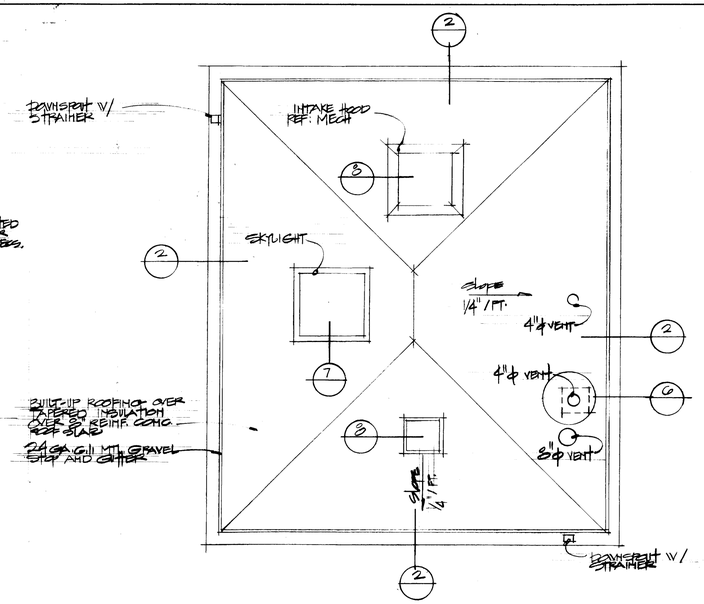


BEAM GASKET DTL (10)
1½"=1'-0"

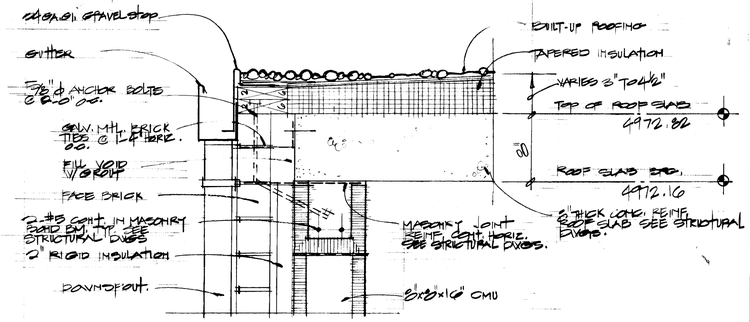
DOOR DETAILS
1½"=1'-0"



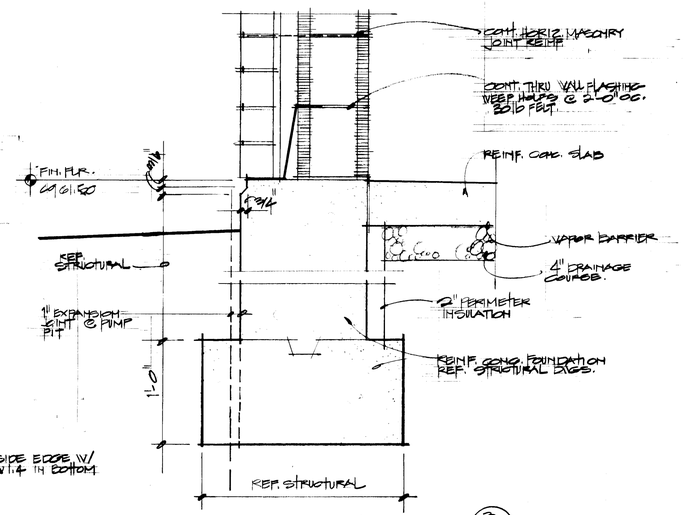
EDGE DTL (9)
NTS



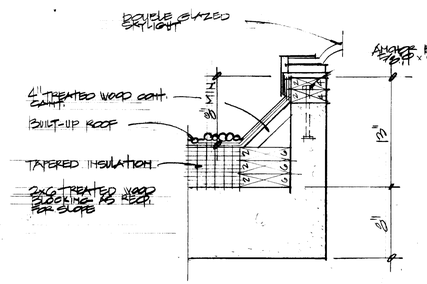
ROOF PLAN
3/16"=1'-0"



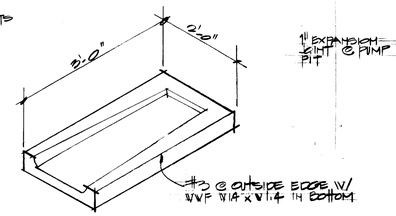
TYP. GUTTER DTL. (2)
1½"=1'-0"



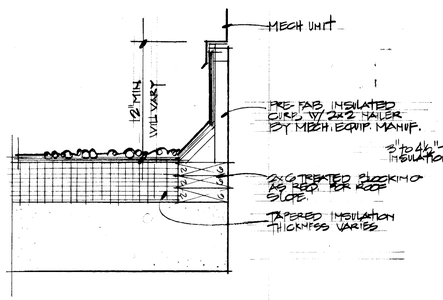
TYP. FOUNDATION WALL (3)
1½"=1'-0"



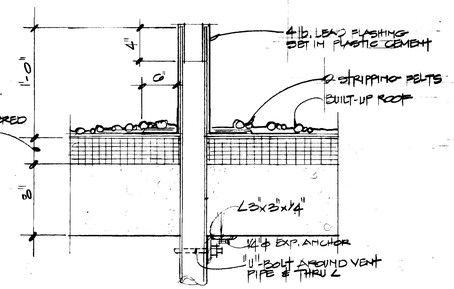
SKYLIGHT CURB DTL. (7)
1½"=1'-0"



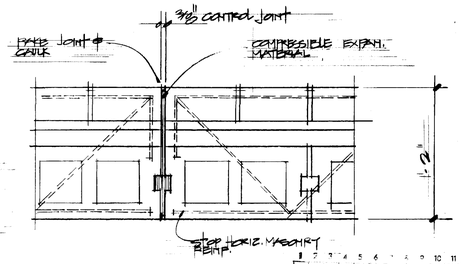
SPLASH BLOCK (5)
NTS.



MECH. CURB (8)
1½"=1'-0"



VENT THRU ROOF (6)
1½"=1'-0"



CONTROL JOINT (4)
1½"=1'-0"

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
A STANDARD ACS BRASS TABLET, '13-C12', SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4923.22 FT. (MSL.D.)

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTORS ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
RECORDED BY		DATE
NO.		

MICRO-FILM INFORMATION

REFERENCES

MAP NO.	EST. NO.	W.O. NO.

NO.	DATE	REMARKS	BY

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

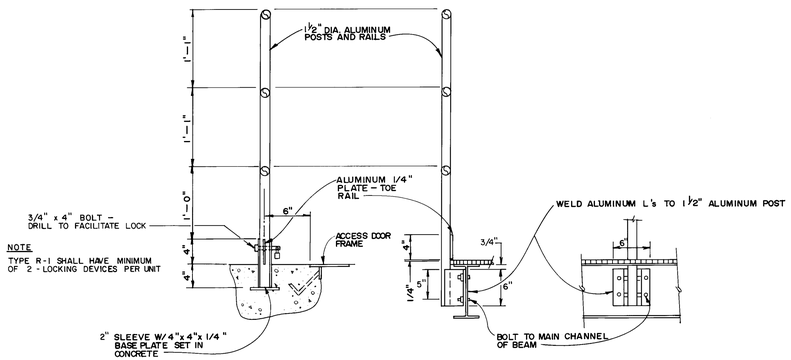
TITLE: DURANES LIFT STATION
SECTIONS & DETAILS

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

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 31 OF 41

N28909

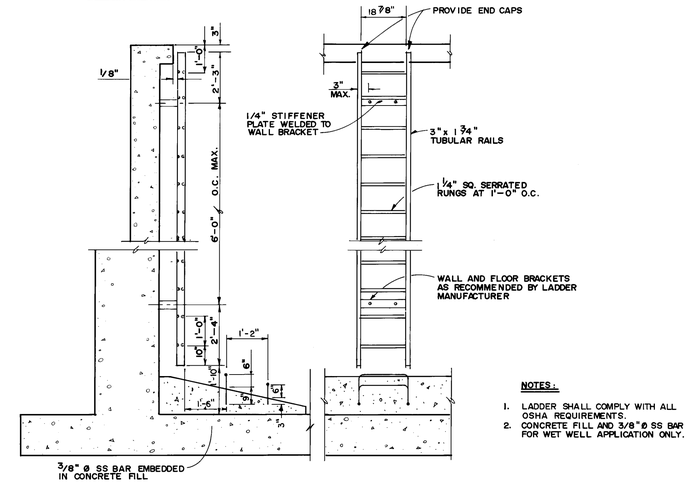


TYPE R1
REMOVABLE / EMBEDDED

TYPE R2
BOLTED TO CHANNEL OF BEAM

TYPICAL HANDRAIL DETAILS

NOT TO SCALE

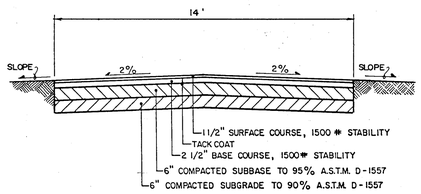


NOTES:

1. LADDER SHALL COMPLY WITH ALL OSHA REQUIREMENTS.
2. CONCRETE FILL AND 3/8" ø SS BAR FOR WET WELL APPLICATION ONLY.

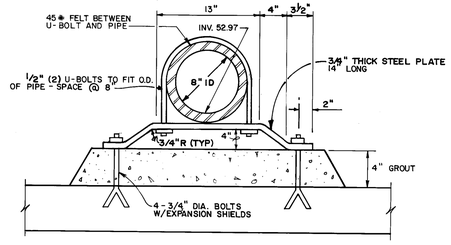
STAINLESS STEEL OR ALUMINUM ACCESS LADDER

NOT TO SCALE



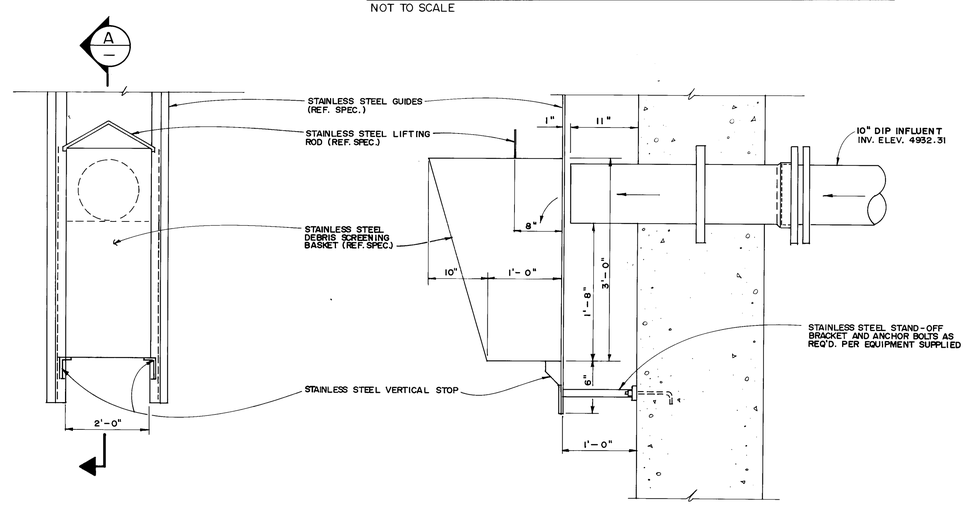
TYPICAL LIFT STATION ROADWAY

NOT TO SCALE



STEEL PIPE SUPPORT

NOT TO SCALE

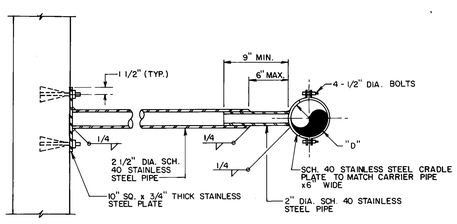


ELEVATION

SECTION A

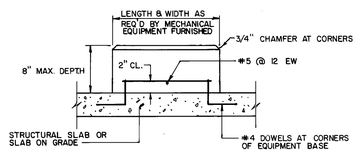
DEBRIS SCREENING BASKET

NOT TO SCALE



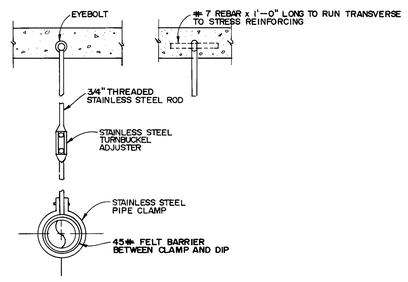
INTERMEDIATE PIPE SUPPORT

NOT TO SCALE PLAN VIEW



TYPICAL CONCRETE BASE DETAIL

SCALE: 1" = 1'-0"



PIPE HANGER DETAIL

NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — THOMAS MANN — 9932 — LAND SURVEYOR

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY INSPECTOR

DATE

ACCEPTANCE BY

DATE

FIELD VERIFICATION BY

DATE

DRAWINGS CORRECTED BY

DATE

MICRO-FILM INFORMATION

RECORDED BY

DATE

NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-G12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4963.22 FT. (N.G.V.D.)

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

REFERENCES

MAP NO. H-12 W.O. NO.

EST. NO.

NO.	DATE	REMARKS	BY

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110

ENGINEERS

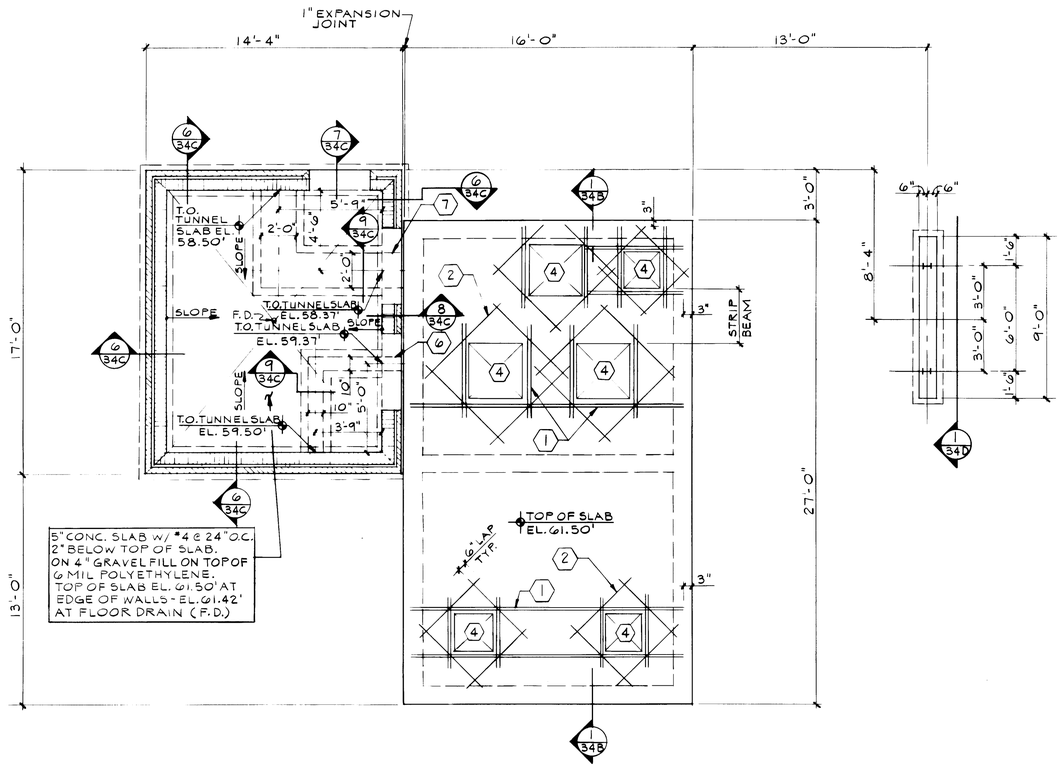
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
MISCELLANEOUS DETAILS

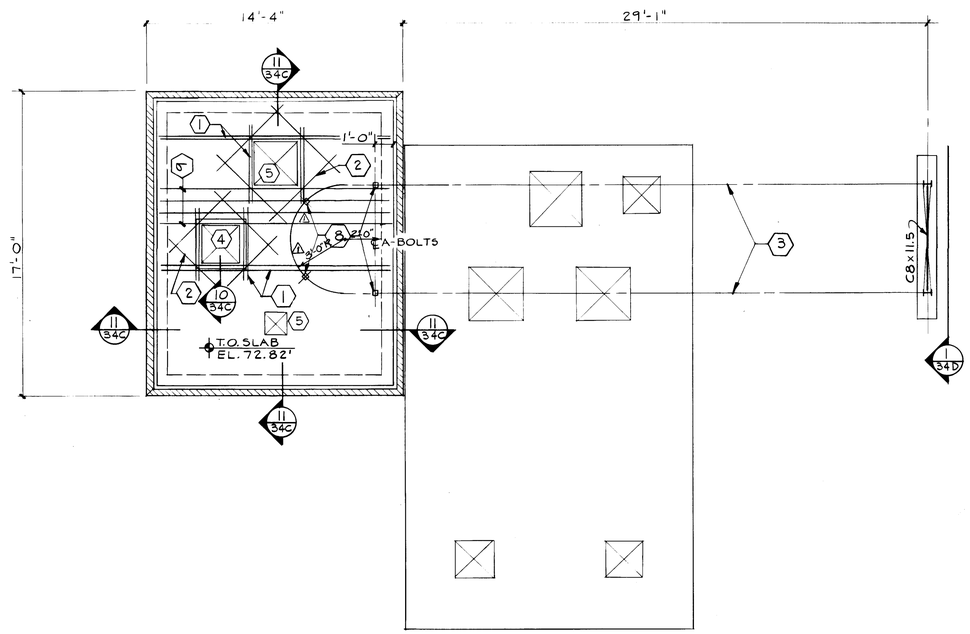
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 33 OF 41

N28909



FOUNDATION & ROOF PLAN
1/4" : 1'-0"



ROOF PLAN
1/4" : 1'-0"

STRUCTURAL NOTES

CONCRETE & REINFORCING

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS LISTED BELOW:

   F'C = 4000 PSI (AIR ENTRAINED) ALL EXTERIOR SIDEWALKS, STAIRS, SLABS, PADS AND CURBS AND GUTTERS.

   F'C = 2000 PSI PEA GRAVEL AGGREGATE - ALL CMU-FILL.

   F'C = 4000 PSI ALL CONCRETE UNLESS OTHERWISE NOTED ABOVE.

2. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60, MINIMUM YIELD STRENGTH OF 60,000 PSI; ALL TIES SHALL BE ASTM A-615, GRADE 40, MINIMUM YIELD STRENGTH OF 40,000 PSI.

3. ALL CONCRETE AND REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-72) AND THE ACI STANDARD DETAILING MANUAL (ACI 315-80).

4. PROVIDE BAR SUPPORTS AND SPACERS FOR REBAR IN ACCORDANCE WITH ACI 315 AND CHAIRS WITH 22 GAGE SAND PLATES FOR ALL REBAR BEARING ON GRADE.

5. WHERE LAPPED SPLICES IN REINFORCING OCCUR, THE LAP SHALL BE MADE AS FOLLOWS: HORIZONTAL AND VERTICAL REINFORCING 30 BAR DIAMETERS OR 24" MINIMUM UNLESS OTHERWISE NOTED.

6. ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS OR 24" MINIMUM.

7. VERTICAL BULKHEADS IN FOOTINGS AND STEM WALLS ARE PERMITTED AT POINTS NO CLOSER THAN 10'-0" FROM ANY CORNER OR INTERSECTION. HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH BULKHEADS. NO SPLICES SHALL BE MADE WITHIN 5'-0" OF ANY BULKHEAD.

8. SLABS AND BEAMS - ANY STOP IN CONCRETE WORK SHALL BE MADE IN THE CENTER OF THE SPAN, WITH VERTICAL BULKHEADS AND A CONTINUOUS HORIZONTAL KEY.

9. CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   PIER FOOTINGS - 3" FROM BOTTOM AND SIDES
   PEDESTALS AND COLUMNS - 1-1/2" FROM TIES.
   SLABS ON GRADE - AS NOTED ON DRAWINGS.
   RETAINING WALLS - AS NOTED ON DRAWINGS.
   GRADE BEAMS - 3" FROM BOTTOM, 1-1/2" FROM SIDES & TOP.

10. THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL COLUMN, WALL DOWELS AND VERTICAL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN THIS POSITION DURING THE PLACING OPERATION.

11. ANY REBAR FOUND TO BE IMPROPERLY INSTALLED SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.

12. SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL BEFORE ANY FABRICATION AND ERECTION IS STARTED. POORLY EXECUTED SHOP DRAWINGS SHALL BE REJECTED AND RESUBMITTED.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS, SHAPES AND CONNECTIONS SHALL BE ASTM A-36, HAVING A MINIMUM YIELD STRENGTH OF 36,000 PSI.

2. ALL STRUCTURAL STEEL TUBE SHAPES SHALL BE ASTM A-500, GRADE B HAVING A MINIMUM YIELD STRENGTH OF 46,000 PSI.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE ARCHITECTURAL DRAWINGS FOR ALL MISCELLANEOUS STEEL.

4. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE AWS AND AISC.

5. ALL ANCHOR BOLTS SHALL BE ASTM A-307 UNLESS OTHERWISE NOTED.

6. ALL CONNECTION BOLTS SHALL BE ASTM A-325 UNLESS NOTED OTHERWISE.

MASONRY NOTES

1. ALL HOLLOW MASONRY TO BE REINFORCED SHALL BE MARKED WITH KEEL AT THE BOTTOM OF THE WALL AT THE CELLS WHERE DOWELS OCCUR OR REBAR IS TO BE PLACED AND GROUTED. ALL VERTICAL MASONRY REINFORCING SHALL BE DOWELED OUT OF THE CONCRETE FOOT-ING OR STEM WALL.

2. CELLS OF MASONRY WALLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL.

3. MASONRY REINFORCING: VERTICAL AND HORIZONTAL REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN USE #5 @ 32" O.C. VERTICALLY. ALL REBAR SHALL BE LAPPED 40 DIA-METERS OR 2'-0" MINIMUM WHICH EVER IS THE LARGEST. SPLICES IN HORIZONTAL REINFORCING SHALL BE STAGGERED SO THAT NO MORE THAN ONE SPLICE OCCURS IN ANY 10'-0" LENGTH OF WALL EXCEPT AT CORNERS.

4. UNLESS OTHERWISE NOTED, EXTEND VERTICAL REINFORCING IN MASONRY WALLS THROUGH KNOCK OUT BOND COURSES. REINFORCING IN KNOCK OUT BOND BEAM COURSES SHALL BE: 12" BLOCK, 2-#5; 8" BLOCK, 2-#5 AND 6" BLOCK, 2-#4 UNLESS OTHERWISE NOTED. FOR ALL BOND BEAMS, INSTALL ONE CORNER BAR FOR EACH HORIZONTAL REBAR IN THE BEAM.

5. UNLESS OTHERWISE NOTED OR DETAILED, VERTICAL REINFORCING IN ALL MASONRY WALLS SHALL BE AS FOLLOWS:

   A. ONE VERTICAL IN EACH OF THE THREE CELLS AT ALL CORNERS. D/34C
   B. ONE VERTICAL IN EACH OF TWO CELLS AT THE END OF ALL DISCONTINUOUS WALL RUNS. B/34C
   C. ONE VERTICAL IN EACH OF THE TWO CELLS EACH SIDE OF ALL CONTROL JOINTS.
   D. ONE VERTICAL IN EACH OF THE FOUR CELLS AT THE INTERSECTION OF TWO WALLS. C/34C
   E. ONE VERTICAL IN EACH CELL AT EACH SIDE OF ALL MASONRY WALL OPENINGS.
   F. AT BEARING POINTS OF FLOOR OR ROOF BEAMS - ONE VERTICAL IN EACH OF THREE CELLS CENTERED ON THE BEAM.

6. ALL MASONRY WORK SHALL HAVE A MINIMUM OF 1/2" CLEARANCE TO STEEL CONSTRUCTION.

7. MASONRY CELLS TO BE FILLED WITH CONCRETE AT VERTICAL REINFORCING SHALL BE FILLED PRIOR TO PLACING VERMICULITE OR LOOSE INSULATION.

8. UNLESS OTHERWISE SPECIFIED, PROVIDE MASONRY CONTROL JOINTS ON EXTERIOR WALLS AT THE FOLLOWING LOCATIONS: 12'-0" FROM ALL CORNERS AND 32'-0" IN ALL STRAIGHT WALL RUNS.

9. WHERE EARTH FILL IS REQUIRED ON ONE OR BOTH SIDES OF MASONRY WALLS, THE WALL SHALL BE GROUTED SOLID WITH CONCRETE TO THE HEIGHT OF THE EARTH FILL OR AS SPECIFIED OTHERWISE.

MISCELLANEOUS

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.

3. ALL TRADES SHALL COORDINATE AND VERIFY ALL OPENINGS IN FLOORS, ROOF, WALLS AND BEAMS WITH THE GENERAL CONTRACTOR AND ARCHITECT.

4. THE MECHANICAL CONTRACTOR SHALL FURNISH ALL NECESSARY FOUNDATIONS AND SUPPORT STRUCTURES FOR MECHANICAL EQUIPMENT AND ALL NECESSARY HANGING DEVICES AND INSERTS FOR INSTALLATION OF MECHANICAL EQUIPMENT.

5. WHERE CONFLICTS OCCUR BETWEEN SPECIFICATIONS, REFERENCED CODES, NOTES AND WORKING DRAWINGS, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

6. ROOF OPENINGS: SEE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED NUMBER OF ROOF OPENINGS.

7. ALL VERTICAL DOWELS WHICH PROJECT OUT OF THE FOOTINGS, STEM WALLS, BEAMS, ETC. SHALL BE TIED IN PLACE PRIOR TO THE POURING OF THE CONCRETE. STICKING OF THE DOWEL INTO WET CONCRETE WILL NOT BE ACCEPTABLE.

8. ALL CAST-IN-PLACE ANCHOR BOLTS SHALL BE TIED IN THE CORRECT LOCATION WITH THE USE OF TEMPLATES OR ADJACENT REINFORCING STEEL. STICKING OF THE ANCHOR BOLTS INTO WET CONCRETE WILL NOT BE ACCEPTABLE.

9. DESIGN DATA:

LOADS - LOCATION	LIVE LOAD	DEAD LOAD
ROOF	20 PSF	120 PSF
CONCRETE FLOORS + EQUIPMENT LOADS	100 PSF	188 PSF
STEEL FLOORS + EQUIPMENT LOADS	100 PSF	3.0 PSF

WIND AS PER UBC - 1982 (METHOD 1)
1. V = 75 MPH
2. q_s = 15 PSF
3. HEIGHT = 0-20 FEET - C_e = 1.2
   a. WINDWARD C_q = .8
      P_W = 14.4 PSF
   b. LEEWARD C_q = .5
      P_L = -9.0 PSF

SEISMIC - ZONE 2.

SOIL BEARING PRESSURE - 2000 PSF ON COMPACTED NATURAL FILL.

KEYED NOTES

1. 2 - #5 ADDITIONAL REINFORCING AT LOCATIONS SHOWN PROJECT 1' - 0" BEYOND OPENING UNLESS NOTED OTHERWISE (THIS REINFORCING IS IN ADDITION TO THAT SHOWN ON SECTION 1/34B)
2. 1 - #4 ADDITIONAL REINFORCING - PLACED DIAGONAL @ 45° AT EACH CORNER OF EACH OPENING, LAP 6" AT CORNERS.
3. 1/2 TON CAPACITY MONORAIL CRANE-BEAM CONNECTIONS TO SUPPORTS & LATERAL STABILITY TO BE DESIGN BY CRANE MANUFACTURER.
4. SLAB OPENING, SEE ARCHITECTURAL FOR SIZE AND LOCATION.
5. SLAB OPENING, SEE MECHANICAL.
6. 10" DIAMETER HOLE THROUGH WALL. SEE E/34C
7. 24" DIAMETER HOLE THROUGH WALL. SEE E/34C
8. ANCHOR BOLTS TO SUPPORT MONORAIL CRANE BEAM, SEE 4/34D
9. BEAM STRIP WITH 4 - #4 CONTINUOUS IN BOTTOM OF SLAB.

NO.	DATE	REMARKS	BY
△	11/25/86	C/MENDION MONORAIL	BKS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, "S-C121" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (1979 LD)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

BI DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS
CONNALLY-PRIDE ASSOCIATES INC.

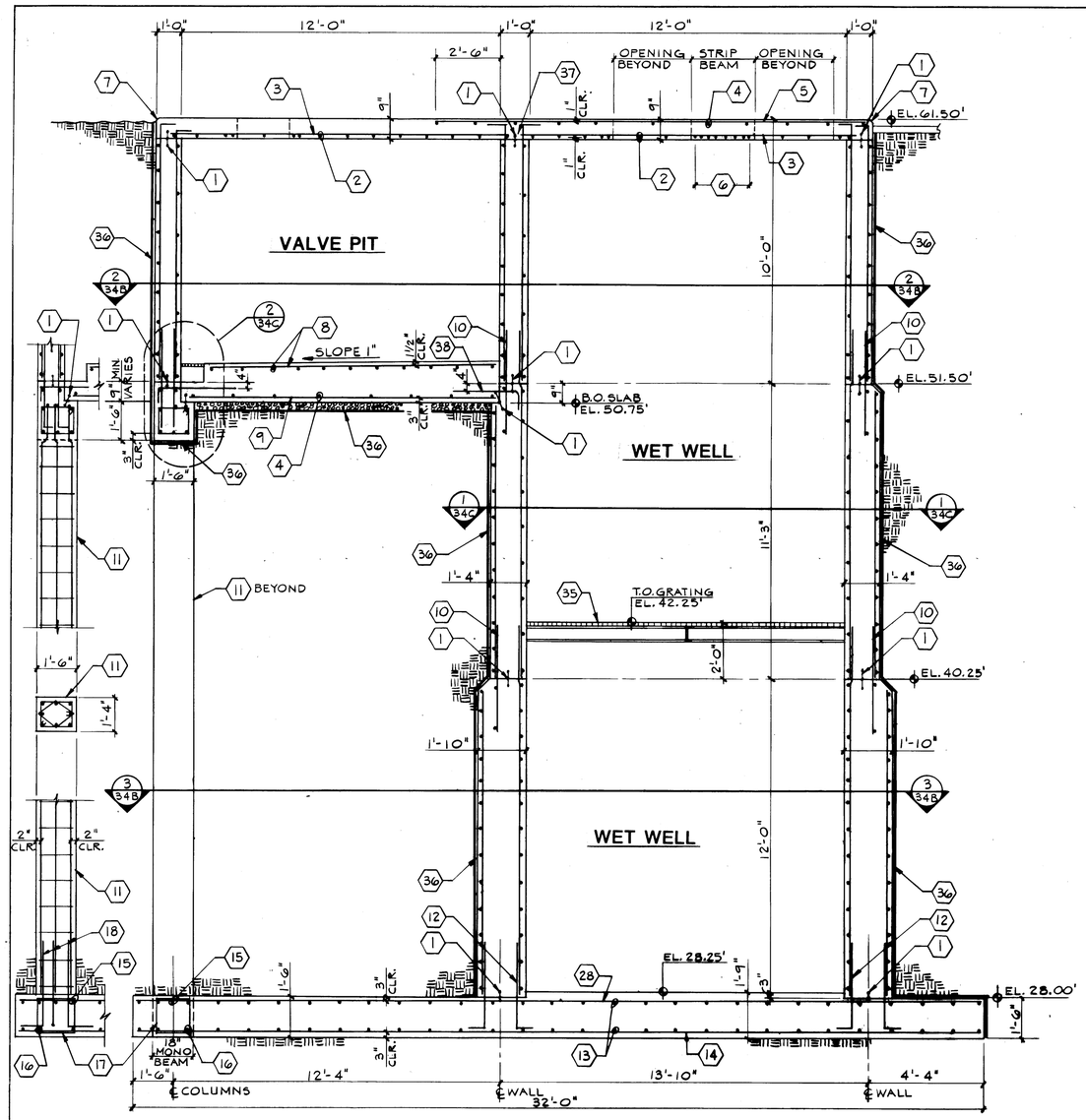
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
FOUNDATION & ROOF PLAN

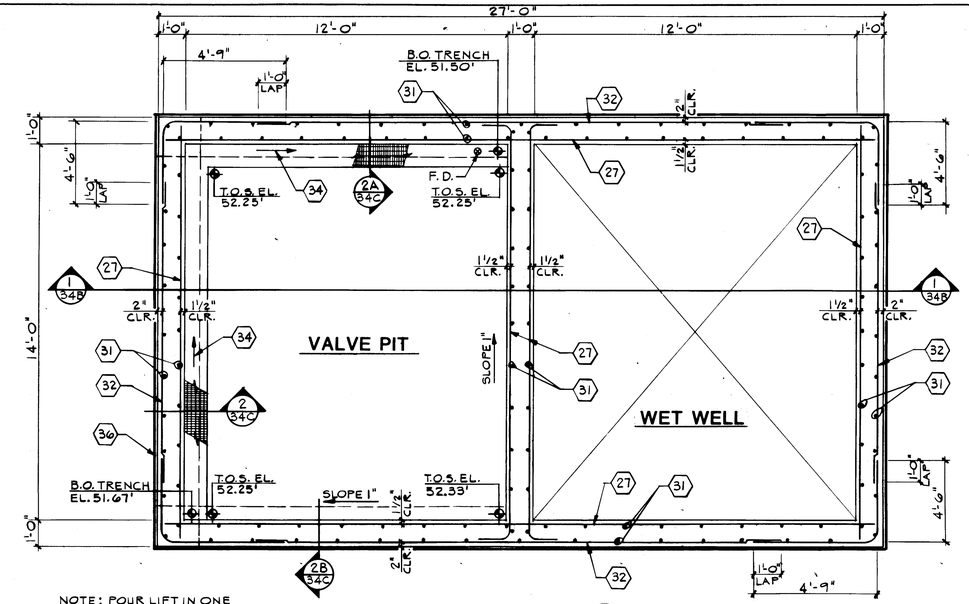
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/88

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

DRAWING NO. 2986 | MAP NO. H·12 | SHEET 34A OF 41

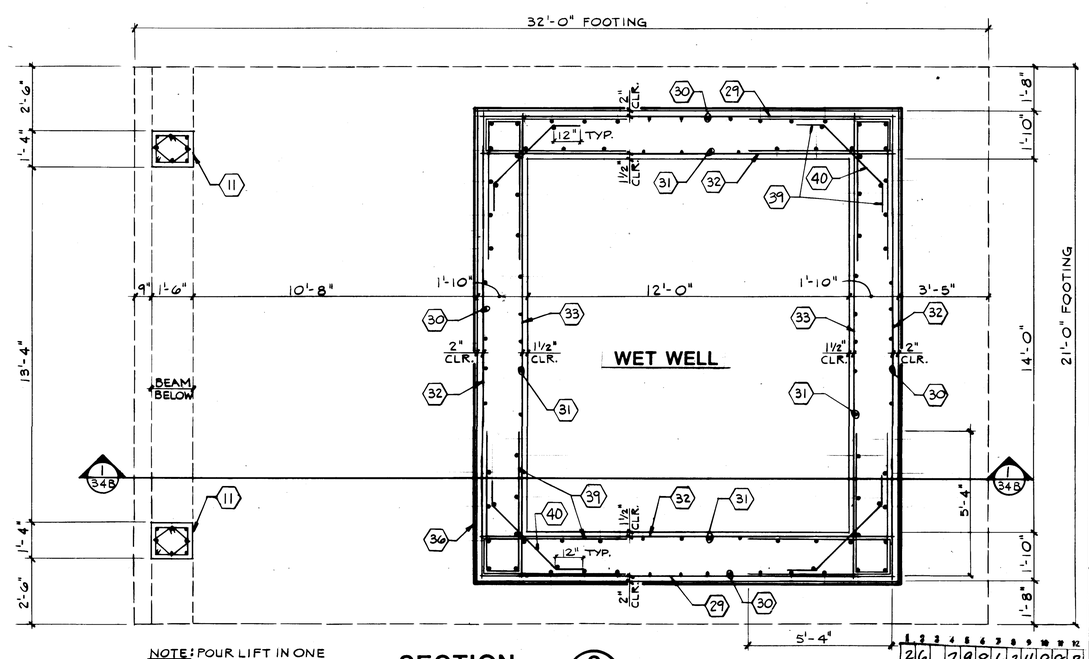


SECTION 1 / 34B
3/8" : 1'-0"



NOTE: POUR LIFT IN ONE CONTINUOUS POUR WITH NO VERTICAL JOINTS.

SECTION 2 / 34B
3/8" : 1'-0"



NOTE: POUR LIFT IN ONE CONTINUOUS POUR WITH NO VERTICAL JOINTS.

SECTION 3 / 34B
3/8" : 1'-0"

KEYED NOTES

1. CONTINUOUS WATERSTOP, SEE SPECIFICATIONS.
2. #4 @ 12" ON CENTER CONTINUOUS.
3. #4 @ 15" ON CENTER CONTINUOUS.
4. #4 @ 18" ON CENTER CONTINUOUS.
5. #4 @ 12" ON CENTER CONTINUOUS.
6. 8 - #4 CONTINUOUS.
7. CONTINUOUS 3/4" CHAMFER.
8. #4 @ 18" ON CENTER EACH WAY.
9. #5 @ 10" ON CENTER CONTINUOUS.
10. DOWELS TO MATCH VERTICAL WALL REINFORCING.
11. REINFORCED CONCRETE COLUMN 18"x16" WITH 8 - #6 VERTICAL WITH 2 - #3 TIES @ 12" ON CENTER.
12. DOWELS TO MATCH VERTICAL WALL REINFORCING.
13. #4 @ 14" ON CENTER CONTINUOUS TOP AND BOTTOM.
14. #7 @ 12" ON CENTER CONTINUOUS BOTTOM.
15. 3 - #8 CONTINUOUS TOP.
16. 2 - #4 CONTINUOUS BOTTOM.
17. #3 TIES 1 @ 3", 2 @ 6", BALANCE @ 12" ON CENTER FROM FACE OF EACH COLUMN IN EACH DIRECTION FROM EACH COLUMN.
18. DOWELS TO MATCH VERTICAL COLUMN REINFORCING.
19. THROUGH 26 NOT USED
27. #4 @ 16" ON CENTER HORIZONTAL.
28. #5 @ 12" ON CENTER CONTINUOUS.
29. #7 @ 11" ON CENTER HORIZONTAL.
30. #4 @ 15" ON CENTER VERTICAL.
31. #4 @ 18" ON CENTER VERTICAL.
32. #4 @ 12" ON CENTER HORIZONTAL.
33. #6 @ 12" ON CENTER HORIZONTAL.
34. SLOPE BOTTOM OF TRENCH FROM ELEVATION 51.67' TO ELEVATION 51.50' AT A CONSISTENT SLOPE.
35. ALUMINUM GRATING.
36. WATERPROOFING - SEE ARCHITECTURAL REQUIREMENTS.
37. STOP AND START REINFORCING AT CONTINUOUS WATERSTOP.
38. #5 DOWEL @ 16" ON CENTER 34" 6"
39. #6 BAR @ 12" ON CENTER.
40. #6 CORNER BARS @ 12" ON CENTER.

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

A STANDARD ACS BRASS TABLET, "3-C127" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4903.22 FT. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES — BY — DATE
NO.

REFERENCES

MAP NO. — W.O. NO.
EST. NO.

REMARKS — BY
NO. — DATE

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

26 29 86 34 88 8

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

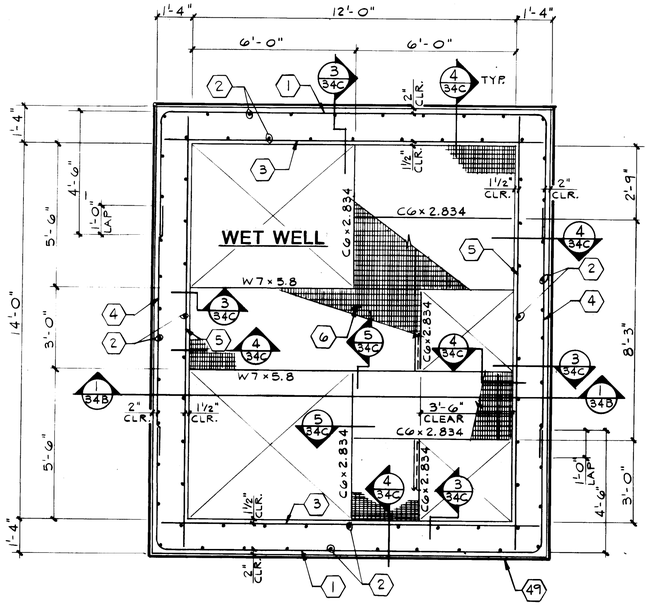
TITLE: DURANES LIFT STATION
SECTIONS

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

RANDOLPH E. HOLT — NEW MEXICO — 3108 — REGISTERED PROFESSIONAL ENGINEER

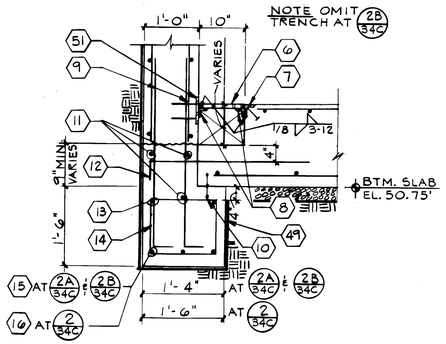
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE

DRAWING NO. 2986 — MAP NO. H·12 — SHEET 34B OF 41

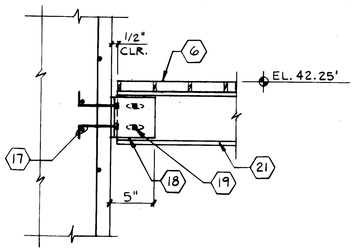


ALL SECTIONS ARE ALUMINUM 6061-T6

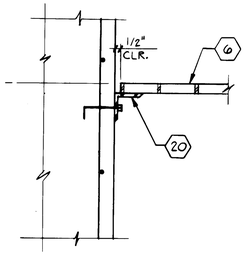
SECTION 1 / 34C
3/8" : 1'-0"



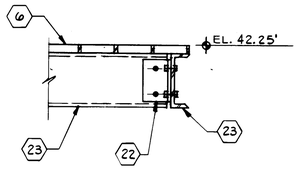
SECTION 2 2A 2B / 34C
3/4" : 1'-0" AS NOTED



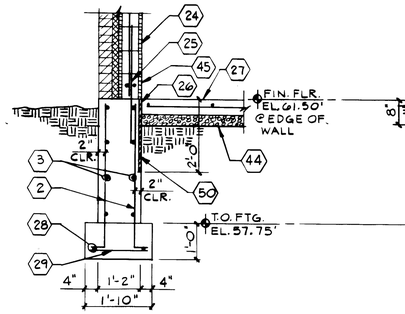
SECTION 3 / 34C
1 1/2" : 1'-0"



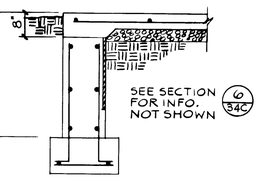
SECTION 4 / 34C
1 1/2" : 1'-0"



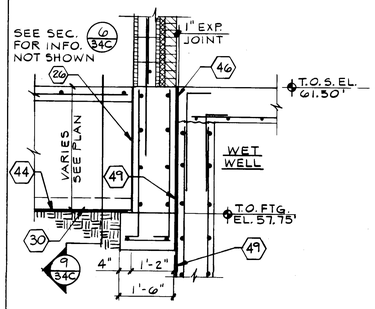
SECTION 5 / 34C
1 1/2" : 1'-0"



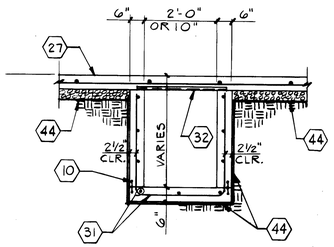
SECTION 6 / 34C
1/2" : 1'-0"



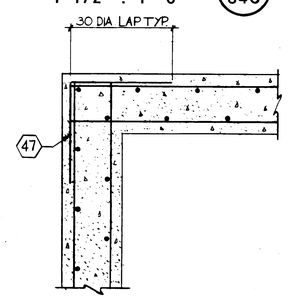
SECTION 7 / 34C
1/2" : 1'-0"



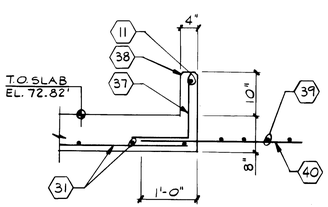
SECTION 8 / 34C
1/2" : 1'-0"



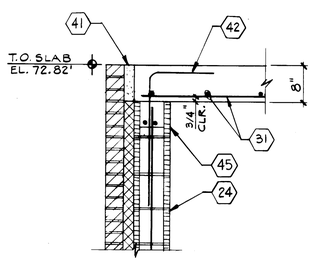
SECTION 9 / 34C
1/2" : 1'-0"



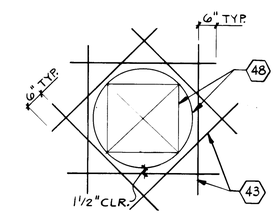
TYP. CORNER DETAIL
DOUBLE CURTAIN A / 34C
NO SCALE



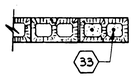
SECTION 10 / 34C
3/4" : 1'-0"



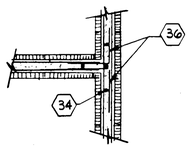
SECTION 11 / 34C
3/4" : 1'-0"



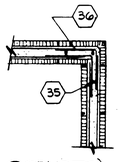
TYPICAL WALL OR SLAB OPENING REINFORCING
DETAIL E / 34C
NO SCALE



(@ ENDS OF WALLS)
DETAIL B / 34C



(@ INTERSECTIONS)
DETAIL C / 34C



(@ CORNERS)
DETAIL D / 34C

ADD'L WALL REINF. DETAILS TYPICAL
NO SCALE

KEYED NOTES

1. #6 @ 12" ON CENTER HORIZONTAL
2. #4 @ 18" ON CENTER VERTICAL.
3. #4 @ 16" ON CENTER HORIZONTAL.
4. #4 @ 12" ON CENTER HORIZONTAL.
5. #5 @ 12" ON CENTER HORIZONTAL.
6. ALUMININUM GRATING. TYPE 'AA', 1"x3/16" BEARING BARS @ 1 3/16" ON CENTER WITH CROSS BARS @ 4" ON CENTER, BANDED.
7. STAINLESS STEEL CONTINUOUS ANGLE 3"x2"x3/16" LLV WITH 1/2"Ø ANCHORS AT 16" ON CENTER.
8. STAINLESS STEEL CONTINUOUS ANGLE 2"x2"x3/16".
9. DOWELS TO MATCH VERTICAL WALL REINFORCING.
10. CONTINUOUS WATER STOP, SEE SPECIFICATIONS.
11. 1 - #4 CONTINUOUS.
12. #5 DOWELS @ 16" ON CENTER 6" 34"
13. 2 - #5 CONTINUOUS TOP CORNER BARS.
14. #3 TIES 1 @ 3", 3 @ 6", 2 @ 8" 1 @ 10" BALANCE AT 12" FROM FACE OF EACH COLUMN.
15. 3 - #5 CONTINUOUS BOTTOM.
16. 3 - #9 CONTINUOUS BOTTOM.
17. 1 - #4 x 2'-0".
18. 2 - STAINLESS STEEL ANGLES 5"x3"x1/4" WITH 4 - 3/4"Ø x 6" 2" 6" STAINLESS STEEL ANCHOR BOLTS CAST-IN-PLACE.
19. 2 - 3/4"Ø STAINLESS STEEL BOLTS.
20. CONTINUOUS STAINLESS STEEL ANGLE 3"x3"x1/4" WITH 5/8"Ø x 6" 2" 6" STAINLESS STEEL ANCHOR BOLTS AT 16" ON CENTER.
21. ALUMINUM FLOOR BEAM WITH 1 3/4" HORIZONTAL SLOTTED HOLES.
22. 2 - ALUMINUM ANGLES. 3 1/2"x3 1/2"x1/4" WITH 6 - 3/4"Ø STAINLESS STEEL BOLTS.
23. ALUMINUM FLOOR BEAM, SEE PLAN.
24. 8" CMU WALL WITH #5 @ 32" ON CENTER WITH CONTINUOUS KNOCKOUT BOND BEAMS @ TOP ELEV. + 0'-8", +4'-0", + 7'-8", ROOF SLAB BEARING.
25. DOWEL TO MATCH VERTICAL WALL REINFORCING 24" 12"
26. CONTINUOUS BOND BREAKER.
27. CONCRETE FLOOR SLAB. SEE FOUNDATION PLAN.
28. 2 - #4 CONTINUOUS.
29. #4 @ 48" ON CENTER TRANSVERSE.
30. TUNNEL BEYOND.
31. #4 @ 12" ON CENTER EACH WAY. SEE PLAN FOR ADDITIONAL REINFORCING.
32. TYPE 'B' 22 GAGE GALVANIZED DECK.
33. ONE VERTICAL IN EACH OF TWO CELLS AT THE END OF ALL DISCONTINUOUS WALL RUNS.
34. ONE VERTICAL IN EACH OF THE FOUR CELLS AT THE INTERSECTION OF TWO WALLS.
35. ONE VERTICAL IN EACH OF THE THREE CELLS AT ALL CORNERS.
36. #5 CORNER BARS AT ALL BOND BEAM REINFORCING 12" 12"
37. #4 @ 10" ON CENTER 10"
38. CONTINUOUS 3/4" CHAMFER.
39. #4 BARS @ 5" ON CENTER. WELD TO TRANSVERSE BARS AT ALL INTERSECTION POINTS.
40. #4 BARS @ 5" ON CENTER. WELD TO LONGITUDINAL BARS AT ALL INTERSECTION POINTS.
41. FILL VOID CONTINUOUS WITH GROUT.
42. DOWELS TO MATCH VERTICAL WALL REINFORCING 12" 24"
43. ADDITIONAL REINFORCING #4 FOR EACH MAT OF REINFORCING.
44. DAMPPROOFING 6 MIL POLYETHYLENE.
45. CONTINUOUS KNOCKOUT BOND BEAM.
46. 1" STYROFOAM EXPANSION JOINT MATERIAL.
47. #5 CORNER @ SAME SPACING AS HORIZONTAL WALL REINFORCING.
48. ROUND OR SQUARE OPENING.
49. WATERPROOFING - SEE ARCHITECTURAL REQUIREMENTS.
50. PERIMETER INSULATION, SEE ARCHITECTURAL REQUIREMENTS.
51. STAINLESS STEEL CONTINUOUS PLATE 1/4"x6"x6" WITH 2 - #4 x 6" ANCHORS @ 24" ON CERTER.

AS BUILT INFORMATION
CONTRACTOR / DATE
WORK STAKED BY / DATE
INSPECTORS ACCEPTANCE BY / DATE
FIELD VERIFICATION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO

BENCH MARKS
A STANDARD ACS BRASS TABLET, "13-A27" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND. THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.
ELEV. = 4803.22 FT. (1-13 LD)

SURVEY INFORMATION
FIELD NOTES: NO. / BY / DATE

REFERENCES: MAP NO. / EST. NO. / WO. NO.

REMARKS: NO. / DATE

BII DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS
BOHNY, KARR & ASSOCIATES, P.A.

1 2 3 4 5 6 7 8 9 10 11 12
26 2986348 8 0

RANDOLPH E. KARR — NEW MEXICO — 8409 — REGISTERED PROFESSIONAL ENGINEER

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
DETAILS

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

APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 34C OF 41

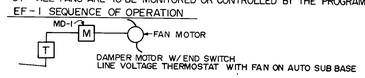
EXHAUST / SUPPLY FAN SCHEDULE

MARK	LOCATION	TYPE (SEE LEGEND)	AIR FLOW (CFM)	EST. S.P. (IN W.G.)	DRIVE TYPE	MAXIMUM MOTOR HP	ELECTRIC POWER VOLTS	PHASE	HZ	REMARKS
EF-1	CONTROL BUILDING	A B P W	300	1/10	DIRECT	1/20	120	1	60	PROVIDE WALL SHUTTER
EF-2	VALVE PIT	C I V W	150	3/8	DIRECT	1/12	120	1	60	ALL ALUMINUM
SF-3	WALL	A C E I M V W	2900	5/8	DIRECT	1	480	3	60	ALL ALUMINUM
EF-3	ROOF	C U W	190	6 1/2	BELT	1 1/2	480	3	60	ALL ALUMINUM

NOTES:

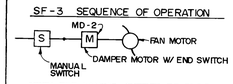
1. EF-1 WAS DESIGNED AROUND LOREN COOK MODEL SWD 10S10D. WALL SHUTTER BY FAN MANUFACTURER SHOULD ALSO BE PROVIDED.
2. EF-2 WAS DESIGNED AROUND LOREN COOK MODEL 10CV10D.
3. SF-3 WAS DESIGNED AROUND LOREN COOK MODEL 18 CVB-BELT DRIVE.
4. EF-2 SHALL BE CONTROLLED BY A MANUAL SWITCH LOCATED NEAR THE ENTRANCE OF THE VALVE PIT.
5. EF-3 SHALL BE MANUALLY OPERATED AND CONTINUOUS USE.
6. ALL FANS ARE TO BE MONITORED OR CONTROLLED BY THE PROGRAMMABLE CONTROLLER SYSTEM.

EF-1 SEQUENCE OF OPERATION



ON A RISE IN SPACE TEMPERATURE TO 90°F MOTORIZED DAMPER MD-1 SHALL OPEN. THE MOTORIZED DAMPER SHALL HAVE AN END SWITCH TO ENERGIZE EF-1 WHEN THE DAMPER IS FULLY OPEN. ON A FALL IN ROOM TEMPERATURE TO BELOW 90°F, EF-1 SHALL DE-ENERGIZE AND MD-1 SHALL CLOSE.

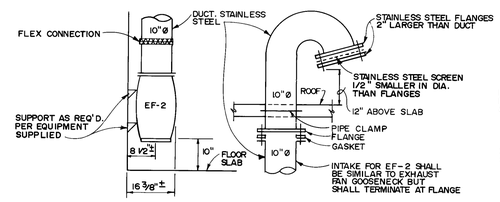
SF-3 SEQUENCE OF OPERATION



WHEN THE MANUAL SWITCH IS PLACED IN THE ON POSITION, MOTORIZED DAMPER MD-2 SHALL OPEN. THE MOTORIZED DAMPER MD-2 SHALL HAVE AN END SWITCH TO ENERGIZE SF-3 WHEN THE DAMPER IS FULLY OPEN. WHEN THE MANUAL SWITCH IS PLACED IN THE OFF POSITION, SF-3 SHALL DE-ENERGIZE, AND MD-2 SHALL CLOSE.

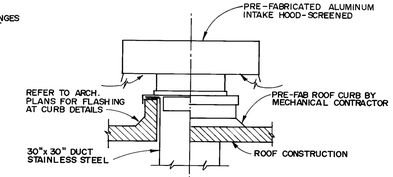
FAN TYPE LEGEND

A - AXIAL	G - GRAVITY BACKDRAFT DAMPER	P - PROPELLER	U - UTILITY TYPE
B - BIRD SCREEN	H - HOUSING	R - ROOF	V - VERTICAL DISCHARGE
C - CENTRIFUGAL	I - IN LINE	S - SPECIAL COATING	W - WALL MOUNTED
E - EXPLOSION PROOF	M - MOTORIZED DAMPER	T - TUBULAR	L - WALL LOUVER
WHEEL TYPE LEGEND	FC - FORWARD CURVED	BI - BACKWARD INCLINED	AF - AIR FOIL



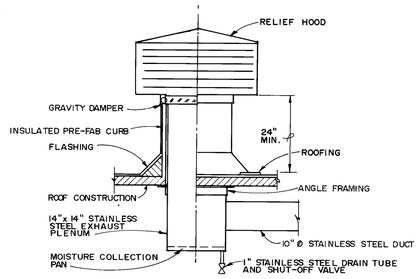
EXHAUST FAN EF-2

NOT TO SCALE



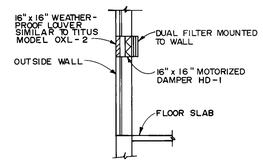
INTAKE HOOD DETAIL

NOT TO SCALE



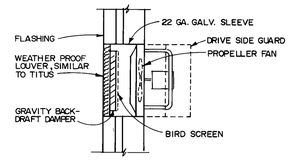
RELIEF HOOD DETAIL

NOT TO SCALE



INTAKE AIR DETAIL

NOT TO SCALE

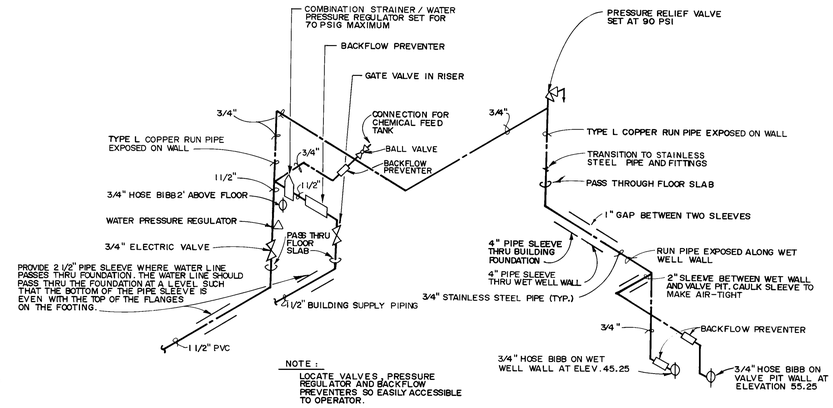


NOTE:

REQUIRED MOUNTING DEPTH (SHUTTER, FAN PANEL AND REQUIRED CLEARANCE) SHALL NOT EXCEED WALL THICKNESS.

WALL MOUNTED EXHAUST FAN EF-1

NOT TO SCALE



NOTE:

LOCATE VALVES, PRESSURE REGULATOR AND BACKFLOW PREVENTERS SO EASILY ACCESSIBLE TO OPERATOR.

PLUMBING RISER DIAGRAM

NOT TO SCALE

NOTE:

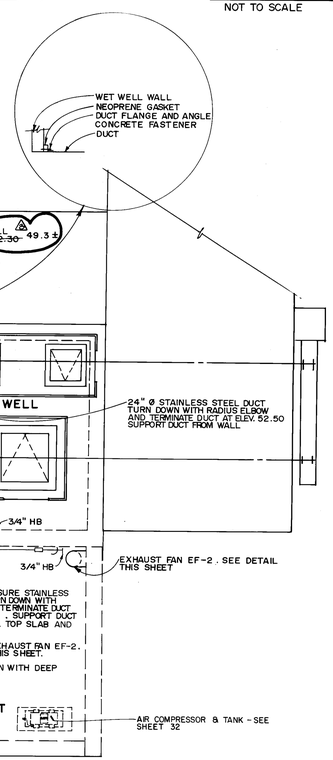
CONTRACTOR TO PROVIDE ACCURATE LAYOUT OF ALL MECHANICAL & ELECTRICAL EQUIPMENT FOR APPROVAL PRIOR TO INSTALLATION.

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

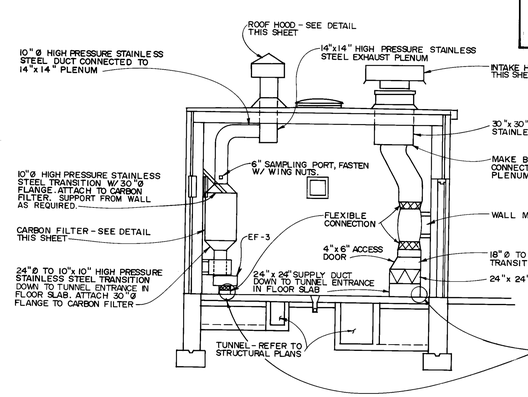
JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

Jeffrey G. Mortensen Date
NMPE #8547



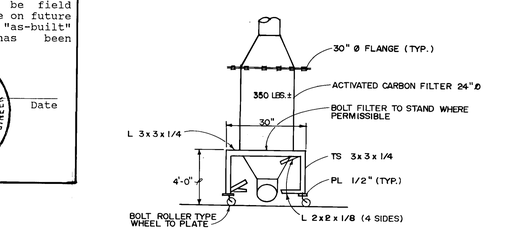
FLOOR PLAN

NOT TO SCALE



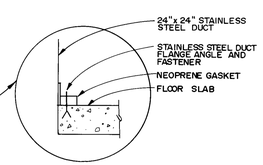
BUILDING SECTION

NOT TO SCALE



CARBON FILTER AND STAND DETAIL

NOT TO SCALE



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER THOMAS A. MOORE 3792 STATE OF NEW MEXICO AND LAND SURVEYOR

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
VERIFICATION OF AS-BUILT CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO

BENCH MARKS

A STANDARD ACS BRASS TABLET, "5-C12", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. N.W. AND MATTHEW AVE. N.W. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W.

ELEV. = 4962.22 FT. (M.S.L.D.)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY
4	6/85	AS-BUILT	GKS

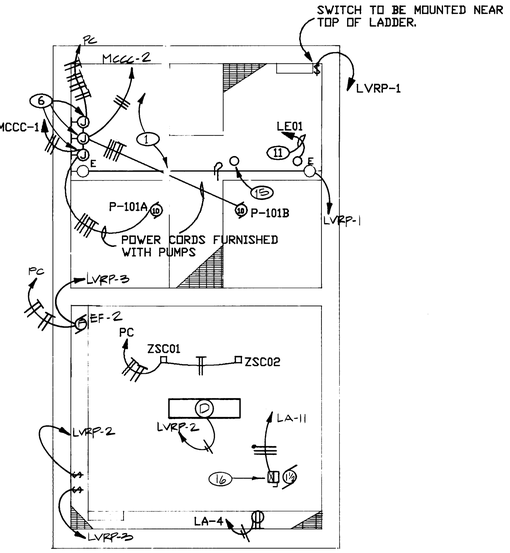
811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
TONN & KAY ASSOCIATES ENGINEERS

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
MECHANICAL FLOOR PLAN & DETAILS

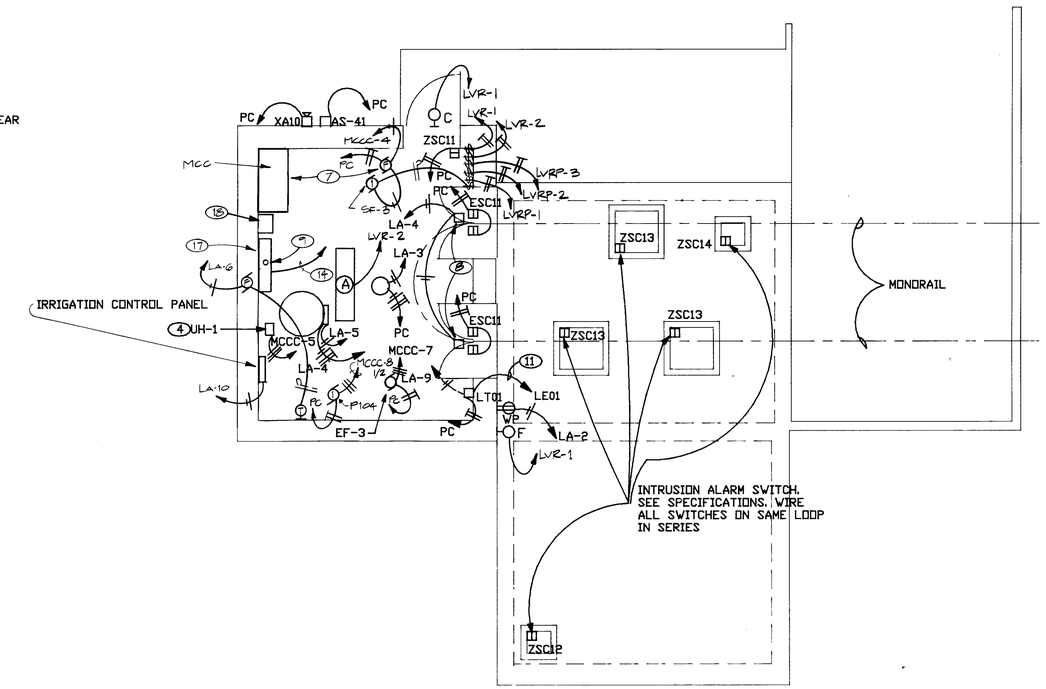
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 38 OF 41



PIT PLAN

SCALE: 1/4" = 1'-0"

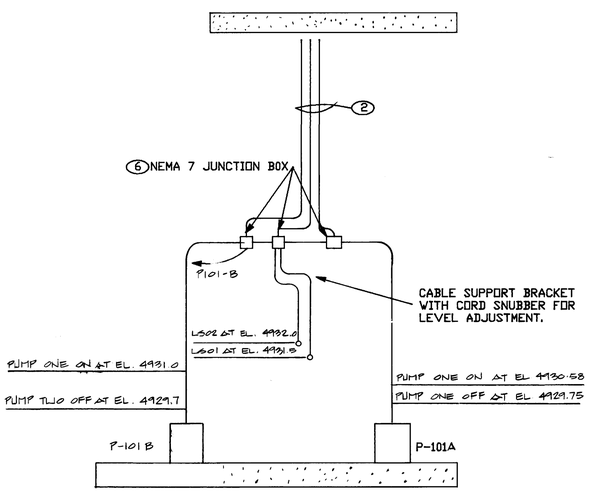


GROUND FLOOR PLAN

SCALE: 1/4" = 1'-0"

SYMBOL LEGEND

- CONDUIT AND WIRING. TIC MARKS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO.
- CONDUIT AND CONTROL WIRE. TIC MARKS INDICATE NUMBER OF CONDUCTORS. WIRE SIZE #14.
- LA-1 — HOME RUN TO PANEL OR MOTOR CONTROL CENTER WITH CIRCUIT NUMBERS INDICATED.
- LVRP-1 — HOME RUN TO LOW VOLTAGE REMOTE CONTROL RELAY.
- A — CEILING MOUNTED FIXTURE. TYPE INDICATED.
- A — WALL MOUNTED FIXTURE. TYPE INDICATED.
- DUPLEX RECEPTACLE, 15A, NEMA CONFIGURATION 5-15R. UP 12" UNLESS OTHERWISE INDICATED.
- $ — SPDT MOMENTARY CONTACT SWITCH, 25V. GENERAL ELECTRIC RFS7 OR EQUAL WITH STAINLESS STEEL PLATE. UP 48" UNLESS OTHERWISE INDICATED.
- $P — SPDT MOMENTARY CONTACT SWITCH WITH PILOT LIGHT, 25V. GENERAL ELECTRIC RFS8 OR EQUAL WITH STAINLESS STEEL PLATE. UP 48" UNLESS OTHERWISE INDICATED.
- MAGNETIC STARTER.
- PILOT LIGHT. COLOR INDICATED.
- SELECTOR SWITCH.
- T — THERMOSTAT. UP 48" UNLESS OTHERWISE INDICATED.
- SOLENOID VALVE.
- M — MOTOR WITH HP INDICATED. 'F' INDICATES FRACTIONAL.
- J — JUNCTION BOX.
- BALANCED MAGNETIC SWITCH FOR INTURSION ALARM SYSTEM. USE EXPLSIONPROOF UNITS IN HAZARDOUS LOCATIONS. SEE SPECIFICATIONS
- PC — HOME RUN TO CONTROL PANEL

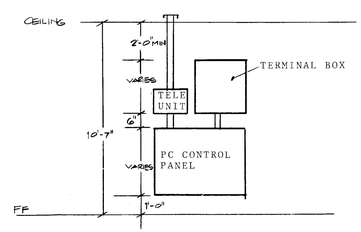


LEVEL CONTROL DETAIL

SCALE: NONE

KEYED NOTES

1. ALL ELECTRICAL WORK IN THE WET WELL SHALL CONFORM TO NEC REQUIREMENTS FOR CLASS 1, GROUP D, DIVISION 1 HAZARDOUS AREA. ALL EXPOSED CONDUIT AND FITTINGS IN THE WET WELL SHALL HAVE A FACTORY APPLIED PLASTIC COATING.
2. PROVIDE SEALS IN CONDUIT RUNS AS REQUIRED BY NEC (NOT SHOWN ON DRAWING).
3. OVERSIZE CONTROL POWER TRANSFORMER AS REQUIRED FOR DAMPER MOTOR.
4. UNIT HEATER UH-1 SHALL BE RATED 3KW, 480V, 3Ø
5. COORDINATE LIGHTING FIXTURE LOCATION WITH SKYLIGHT LOCATION.
6. SPLICES IN NEMA 7 JUNCTION BOXES SHALL BE MADE WITH SOLDERLESS CONNECTORS, PER SPECIFICATIONS AND WRAPPED WITH PLASTIC TAPE.
7. A MINIMUM CLEARANCE OF 42" SHALL BE MAINTAINED IN FRONT OF THE MCC.
8. INSTALL A LOCKING TYPE 20A, 4 WIRE GROUNDING CONNECTOR BODY AND A WIRE MESH HOLDING DEVICE,KELLUMS BUS DROP GRIP OR EQUAL, ON EACH REEL CORD. INSTALL A SHORT LENGTH OF CORD ON THE HOIST WITH MATCHING PLUG. PROVIDE A SUITABLE HOOK ON THE HOIST FRAME FOR CONNECTING THE GRIP TO PREVENT STRAIN ON THE COPY CONNECTOR.
9. PROVIDE CEILING PENETRATION FOR REMOTE ALARM SYSTEM (BY OTHERS). 1" I.D. PIPE WITH 3 SET SCREWS SET 120° APART.
10. INSTALL 4#14 TO TERMINAL BOX FOR PC INPUT.
11. CABLE FURNISHED WITH ULTRASONIC LEVEL SENSOR.
12. CIRCUIT DESIGNATIONS INDICATE FINAL DESTINATION OF CIRCUITS. CIRCUITS TO PROGRAMMABLE CONTROLLER SHALL BE TERMINATED IN TERMINAL BOX.
13. CIRCUITS FOR SWITCHES S AND S AND BALANCED MAGNETIC SWITCHES IN CONTROL BUILDING ARE NOT SHOWN. INSTALL 2#14 FROM EACH SWITCH TO PC.
14. TO LC-7 VIA ISOLATION TRANSFORMER AND TERMINAL BOX. PROVIDE A 36" SPACE FOR ACCESS TO PANEL, AND TO ALLOW ACCESS DOORS TO FULLY OPEN.
15. ~~ADMITTANCE LEVEL TRANSMITTER. THE PROBE SHALL BE MOUNTED ON THE GRATING AND EXTENDED TO AN ELEVATION OF 4929.75 FT. (MIN. WATER LEVEL).~~
16. PROVIDE NEMA SIZE 0 MOTOR CONTROLLER AND 30A/2P DISCONNECT SWITCH. FUSE WITH 15A FRN FUSES.
17. CONTROL PANEL & TELEMETERING PANEL ABOVE. SEE ELEVATION THIS SHEET.
18. IN ORDER FROM TOP TO BOTTOM: ISOLATION TRANSFORMER, PANEL "LA", DRY TYPE DISTRIBUTION TRANSFORMER.



PC ELEVATION

FREDERICK J. TELICK NEW MEXICO 6257 REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

NO.	DATE	REMARKS	BY
1	11/25	DELETE ULTRASONIC LEVEL SENSOR	SMS

REFERENCES: MAP NO. / EST. NO. / W.O. NO.

SURVEY INFORMATION — FIELD NOTES: NO. / BY / DATE

BENCH MARKS: A STANDARD ACS BRASS TABLET, '13-G12' SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. NW AND MATTHEW AVE. NW. ON THE WEST EDGE OF RIO GRANDE BLVD. N.W. ELEV. = 4993.22 FT. (MSLD)

AS BUILT INFORMATION: CONTRACTOR / WORK STAKED BY / DATE; INSPECTOR / DATE; ACCEPTANCE BY / DATE; FIELD VERIFICATION BY / DATE; DRAWINGS CORRECTED BY / DATE

MICRO-FILM INFORMATION: RECORDED BY / DATE; NO.

26 2986 39 88

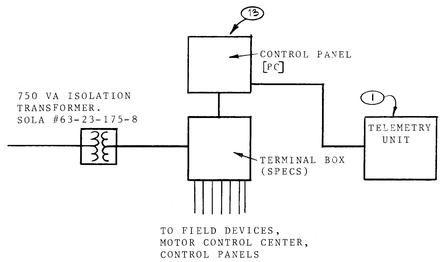
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION FLOOR PLAN

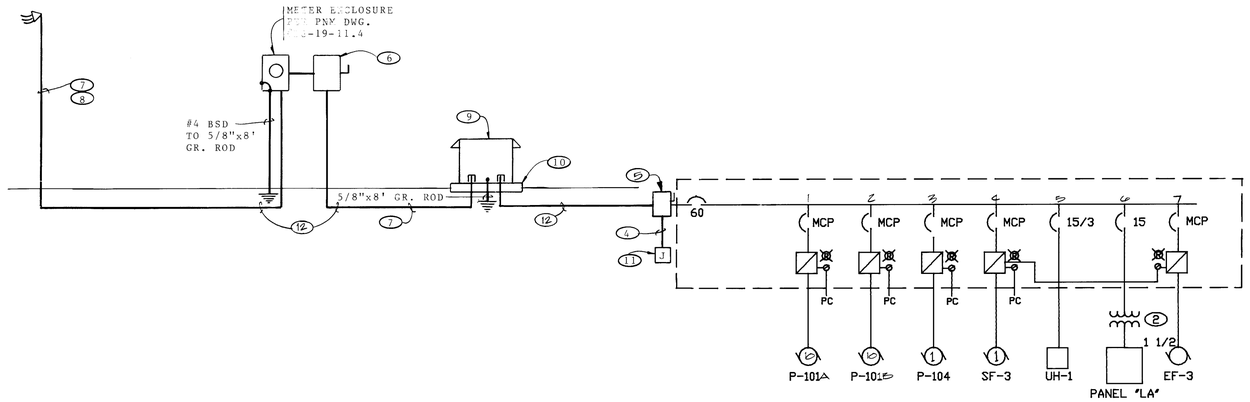
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 39 OF 41

811 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS



CONTROL SYSTEM BLOCK DIAGRAM



ESTIMATED LOADS - 277/480V-3P-4W

CONNECTED	-	48 KW
DEMAND	-	31 KW

POWER RISER DIAGRAM

SCALE: NONE

CONTROL AND TELEMETRY POINT LIST

TAG NO.	DESCRIPTION	SIGNAL TYPE	VOLTAGE	POWER SOURCE
HS01	PUMP NO. 1 CONTROL	DI	24 VDC	PC
HS02	PUMP NO. 2 CONTROL	DI	24 VDC	PC
MI01	PUMP NO. 1 STARTER	DI	24 VDC	PC
MI02	PUMP NO. 2 STARTER	DI	24 VDC	PC
MS01	PUMP NO. 1 STARTER	DO	24 VDC	PC
MS02	PUMP NO. 2 STARTER	DO		PC
ZSC01	PUMP NO. 1 CHECK VALVE	DI	24 VDC	PC
ZSC02	PUMP NO. 2 CHECK VALVE	DI	24 VDC	PC
TS01	MOTOR NO. 1 OVERTEMPERATURE	DI	24 VDC	PC
TS02	MOTOR NO. 2 OVERTEMPERATURE	DI	24 VDC	PC
~~LT01~~	~~WET WELL LEVEL (ULTRASONIC)~~	~~AI~~	~~4-20 MA~~	~~INST~~
⚠ LT02	WET WELL LEVEL (ADMITTANCE PROBE)	AI	4-20 MA	INST
~~LTA01~~	~~LEVEL TRANSMITTER FAILURE~~	~~DI~~	~~24 VDC~~	~~PC~~
LS01	WET WELL LEVEL OVERRIDE	DI	24 VDC	PC
LS02	HIGH WET WELL TELEMETRY ALARM	DI	DCC	TELEMETRY UNIT
LS00	INTERCEPTOR SURCHARGE ALARM	DI	24 VDC	PC
ZSC11	BUILDING DOORS	DI	24 VDC	PC
ZSC12	VALVE PIT HATCHES	DI	24 VDC	PC
ZSC13	WET WELL HATCHES	DI	24 VDC	PC
XA10	ALARM HORN	DO	24 VDC	PC
ZSC14	LADDER LATCH	DI	24 VDC	PC
HS31	CHEMICAL METERING PUMP	DI	24 VDC	PC
MI31	CHEMICAL METERING PUMP	DI	24 VDC	PC
MS31	CHEMICAL METERING PUMP	DO	120 V	PC
LSL32	DRY CHEMICAL HOPPER LOW LEVEL	DI	24 VDC	PC
ZSO32	CHEMICAL TANK FILL VALVE	DI	24 VDC	PC
XI31	CHEMICAL SYSTEM READY	DI	24 VDC	
AS41	PHOTOCELL	DI	24 VDC	PC
ISO41	EXTERIOR LIGHTING RELAY	DO	24 VDC	PC
ISC41	EXTERIOR LIGHTING RELAY	DO	24 VDC	PC
ISO42	WET WELL LIGHTING RELAY	DO	24 VDC	PC
ISC42	WET WELL LIGHTING RELAY	DO	24 VDC	PC
ISO43	VALVE PIT LIGHTING RELAY	DO	24 VDC	PC
ISC43	VALVE PIT LIGHTING RELAY	DO	24 VDC	PC
ISO44	BUILDING LIGHTING RELAY	DO	24 VDC	PC
ISC44	BUILDING LIGHTING RELAY	DO	24 VDC	PC
MSO51	VALVE PIT EXHAUST FAN	DO	24 VDC	PC
MSC51	VALVE PIT EXHAUST FAN	DO	24 VDC	PC
HS52	WET WELL SUPPLY FAN	DI	24 VDC	PC
MS52	WET WELL SUPPLY FAN	DO	24 VDC	PC
MI52	WET WELL SUPPLY FAN	DI	24 VDC	PC
MI53	WET WELL SCRUBBED EXHAUST	DI	24 VDC	PC
JS61	WATTHOUR METER PULSE INPUT	DI	24 VDC	PC
AS60A	SMOKE DETECTOR	DI	24 VDC	PC
AS60B	SMOKE DETECTOR FAILURE	DI	24 VDC	PC

DI DIGITAL INPUT
DO DIGITAL OUTPUT
AI ANALOG INPUT

NOTE: PROVIDE 24V DC RELAYS ON ALL DIGITAL OUTPUTS FROM PC. ALLEN BRADLEY #700DC-R110 (24V DC) OR EQUAL.

PANEL SCHEDULE

PANEL DESCRIPTION	CCT. NO.	CCT. BKR.	LOAD
PANEL "LA"	1	20A/1P	LIGHTS
120/240V-10-3W	2	20A/1P GFCI C/8	RECEPT.
100A MLO, SURFACE MOUNT.	3	15A/1P	SMOKE DETECTOR
	4	20A/1P GFCI C/8	HOIST & RECEPT
	5	20A/1P	SOLUTION MIXER
	6	20A/1P	EF-1 & EF-2
	⚠ 7	15A/1P	ISOLATION TRANSFORMER
	~~8~~	~~20A/1P~~	~~ULTRASONIC ADMITTANCE PROBE LEVEL TRANS~~
	9	15A/1P	LEVEL TRANSMITER
	10	15A/1P	IRRIGATION CONTROL
	11	30A/2P	AIR COMPRESSOR

FIXTURE SCHEDULE

TYPE	MANUFACTURER	LAMPS	MOUNTING	HEIGHT
A	LITHONIA #LA240	2/F40/RSWM	SURFACE	CEILING
C	STONCO WPS-35NLX (VANDALPROOF)	1/35W/HPS	WALL	10'-0"
D	LITHONIA #DVL240A	2/F40/RSWM	SURFACE	CEILING
E	GENERAL ELECTRIC #H9107S3WJJ WITH LARGE GLOBE AND GUARD.	1/70W/HPS	WALL	
F	STONCO #PM-100LX WITH VANDALPROOF SHIELD.	1/100W/HPS	WALL	10'-0"

KEYED NOTES

1. TELEMETRY UNIT PROVIDED BY CITY AND INSTALLED BY CONTRACTOR.
2. DRY TYPE TRANSFORMER, 480-240/120V-1Ø-3W,10 KVA.
3. 60A 3P + SN FUSIBLE DISCONNECT SWITCH.
4. 3 #2 THW & 1 #2 GR. IN 1½"C.
5. 100A, 3P, 600V DOUBLE THROW, SOLID NEUTRAL FUSIBLE SAFETY SWITCH, NEMA 3R FUSE WITH 100A BUSS FRS FUSES.
6. 200A, 3P, 250V NEMA 3R SAFETY SWITCH FUSIBLE, FUSE WITH BUSS 200A KTN TYPE FUSES.
7. 3 #4/0 THW AND 1 #2 GR. IN 2" C.
8. EXTEND RISER UP POLE PER PNM DWG. #DS-4-9.0.
9. 240V TO 480-3Ø TRANSFORMER, 75 KVA, DRY TYPE WITH WEATHER SHIELDS.
10. 3'x 3' x 6" CONCRETE PAD.
11. 12" x 12" x 8" WEATHERPROOF J-BOX WITH INSULATED TERMINAL LUG FOR FUTURE CONNECTION OF GENERATOR.
12. CONCRETE ENCASED CONDUIT.
13. BY OTHERS. SEE SPECS.

26 29864088

FREDERICK L. TELCK
NEW MEXICO
6297
REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE
INSPECTED BY DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

A STANDARD ACS BRASS TABLET, "B-216" SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT ABOVE GROUND, THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. NW. AND MATTHEW AVE. NW. ON THE WEST EDGE OF RIO GRANDE BLVD. NW.
ELEV. = 4903.22 FT. (NGVD)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO.	EST. NO.	W.O. NO.

NO.	DATE	REMARKS	BY
⚠ 1	11/25	DELETE ULTRA SONIC LEVEL SENSOR	SKS

8111 DALLAS N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

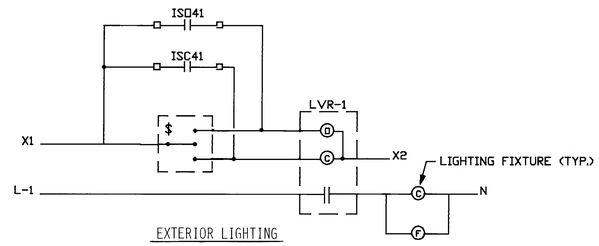
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION
DIAGRAMS & SCHEDULES

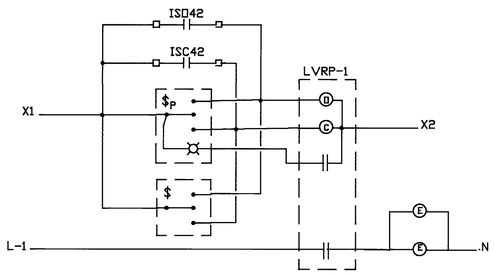
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/86
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/86

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 40 OF 41

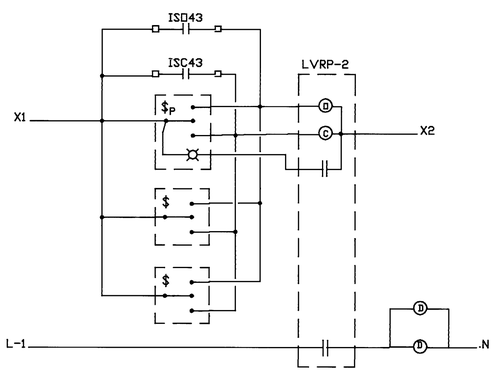
N28909



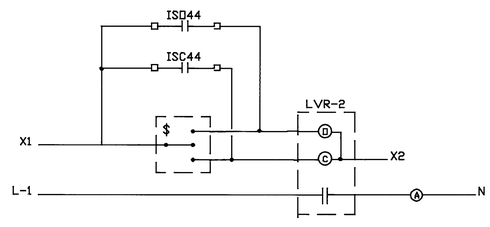
EXTERIOR LIGHTING



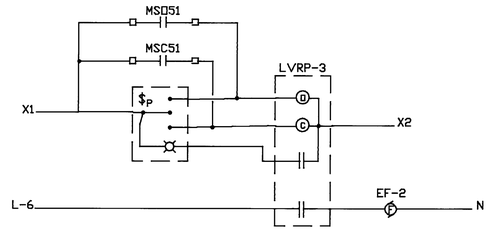
WET WELL LIGHTING



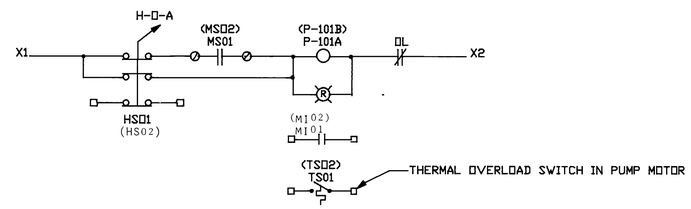
VALVE PIT LIGHTING



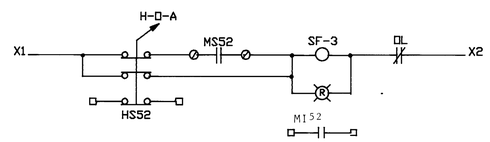
BUILDING LIGHTING



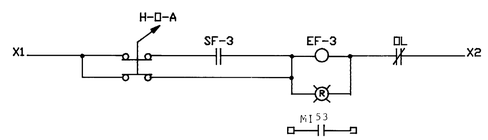
VALVE PIT EXHAUST



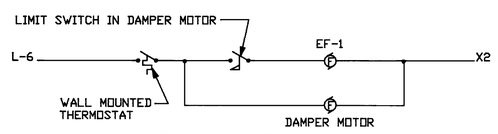
PUMPS ONE & TWO



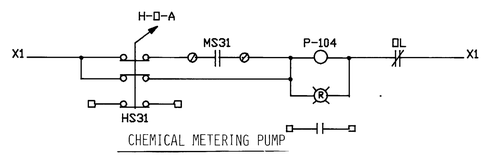
WET WELL SUPPLY FAN



WET WELL SCRUBBED EXHAUST



CONTROL ROOM EXHAUST



CHEMICAL METERING PUMP

CONTROL SYMBOL LEGEND

	TERMINATIONS IN CONTROL PANEL CABINET. SEE CONTROL AND TELEMETERING POINT LIST FOR TERMINAL IDENTIFICATION.
$	SPDT MOMENTARY CONTACT SWITCH, 25V, GENERAL ELECTRIC #RFS7 OR EQUAL WITH STAINLESS STEEL PLATE.
$P	SPDT MOMENTARY CONTACT SWITCH WITH PILOT LIGHT, 25V, GENERAL ELECTRIC #RFS8 OR EQUAL WITH STAINLESS STEEL PLATE.
LVR	LOW VOLTAGE REMOTE CONTROL RELAY, GENERAL ELECTRIC #RR7 OR EQUAL.
LVRP	LOW VOLTAGE REMOTE CONTROL RELAY WITH PILOT SWITCH, GENERAL ELECTRIC #RR8 OR EQUAL.
	AUXILIARY RELAY. PROVIDE AN INTERPOSING RELAY WITH A 120 VAC COIL MOUNTED IN MOTOR STARTER. WIRE COIL LEADS THRU AUXILIARY CONTACT OF STARTER DISCONNECT TO MARKED TERMINAL IN TERMINAL BOX.
MS	COMPUTER INTERFACE. SEE POINT LIST.

NOTE

INSTALL LOW VOLTAGE REMOTE CONTROL RELAYS IN MANUFACTURERS STANDARD MOUNTING FRAME AND NEMA 1 COMPONENT CABINET. PROVIDE 40 VA, 118V TRANSFORMER IN SAME ENCLOSURE.

CONTROL DIAGRAMS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
A STANDARD ACS BRASS TABLET, 3-1/2" DIA. IN TOP OF A CONCRETE POST PROJECTING 0.20 FT. ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. NW. AND MATTHEW AVE. NW. ON THE WEST EDGE OF RIO GRANDE BLVD. NW.
ELEV. = 4963.22 FT. (NGVD)

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

REFERENCES
MAP NO.
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

JOHN ABRY ASSOCIATES INC.
81 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110
ENGINEERS

26 29869/88

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: DURANES LIFT STATION DIAGRAMS

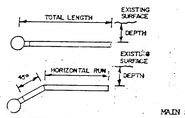
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		10/21/88
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		10/21/88

FREDERICK J. TEICH NEW MEXICO 6287 REGISTERED PROFESSIONAL ENGINEER

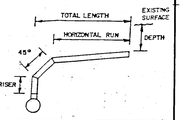
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

DRAWING NO. 2986 | MAP NO. H-12 | SHEET 41 OF 41

N28909

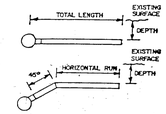


RECORD INFORMATION
SEWER SERVICE CONNECTIONS
JOB: LOS DURANES SANITARY SEWER
CITY REPRESENTATIVE: ELOY SMITH & ALAN OSTAPACK

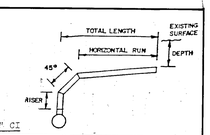


MAIN SIZE: 8 MAIN TYPE: P.V.C. SERVICE TYPE: 4"CI

Sheet or Map No.	Sta. or Mf No.	Street Address, Lot No. or Distance from Manhole	Date Inst.	Angle of Tap	Tap Concreted Yes/No	Riser Height	45° Length	Horiz. Length	Total Length	Depth at End	END Yes/No	Water Table Depth	COMMENTS Line Cond./Saddle Type/Etc.
19 of 41	11+24	3445 GABALDON PL.	4/16	VERT	NO	3.5'	1.8'	21.2'	26.5'	5.2'	YES	N/A	NEW/GENECO/NORTH
"	12+79	3437 "	4/15	"	"	3.8'	2.3'	20.0'	26.1'	6.0'	"	"	" " "
"	12+98	3381 "	4/17	"	"	4.0'	3.4'	26.0'	32.4'	5'	"	"	" " "
"	13+70	3379 "	4/15	"	"	3.5'	2.0'	24.1'	29.6'	5.5'	"	"	" " "
"	14+18	3377 "	4/22	"	"	3.5'	2.0'	25.1'	30.6'	5.6'	"	"	" " "
	14+82	3420 "	4/22	"	"	3.2'	1.7'	25.0'	29.9'	5.0'	"	"	" " SOUTH
"	15+26	3420 "	4/22	"	"	1.6'	1.5'	21.2'	24.3'	6.0'	"	"	" " SOUTH
"	15+37	3417 "	4/23	"	"	2.5'	1.3'	25.0'	28.8'	6.0'	"	"	" " NORTH
"	16+18	3417 "	4/23	"	"	2.5'	1.2'	26.5'	30.2'	6.0'	"	"	" " "
"	16+88	3361 "	4/29	"	"	2.3'	1.5'	22.0'	25.8'	5.2'	"	"	" " "
"	17+95	3349 "	4/23	45°	"	NONE	2.0'	21.0'	23.0'	6.1'	"	"	" " "
"	17+42	3361 "	4/23	"	"	NONE	3.5'	21.0'	24.5'	5.5'	"	"	" " "
"	19+48	3345 "	4/24	"	"	NONE	4.5'	17.5'	22.0'	5.0'	"	"	" " "
"	19+62	3343 "	4/25	"	"	NONE	4.5'	17.6	22.1	5.2	"	"	" " "

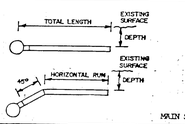


RECORD INFORMATION
SEWER SERVICE CONNECTIONS
JOB: LOS DURANES SANITARY SEWER
CITY REPRESENTATIVE: ELOY SMITH & ALAN OSTAPACK

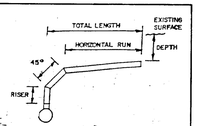


MAIN SIZE: 8" MAIN TYPE: P.V.C. SERVICE TYPE: 4" CI

Sheet or Map No.	Sta. or Mf No.	Street Address, Lot No. or Distance from Manhole	Date Inst.	Angle of Tap	Tap Concreted Yes/No	Riser Height	45° Length	Horiz. Length	Total Length	Depth at End	END Yes/No	Water Table Depth	COMMENTS Line Cond./Saddle Type/Etc.
19 of 41	21+05	3322 GABALDON PL.	4/28	46°	NO	NONE	4.0'	21.5'	25.5'	5.0'	YES	N/A	NEW/GENECO/NORTH
	25+76	EMPTY LOT	4/27	"	"	"	2.2'	21.5	23.7	6.0'	"	"	" " "
	25+47	EMPTY LOT LOT 3 BLK2	4/27	"	"	"	2.8'	26.5'	29.3	5.8'	"	"	" " "
	25+07	3309 GABALDON PL.	4/28	"	"	"	3.5'	26.5	30.0'	5.0'	"	"	" " "
	24+47	3311 "	4/28	"	"	"	2.5'	26.5'	29.0'	5.2'	"	"	" " "
	22+07	EMPTY LOT	4/28	"	"	"	5.0'	16.5'	21.5	5.5'	"	"	" " "
	23+22	EMPTY LOT	4/28	"	"	"	3.2'	26.2'	29.4	5.0'	"	"	" " "
	23+84	3317 GABALDON PL.	4/27	"	"	"	2.5'	26.6'	29.1	5.0'	"	"	" " "
	20+34	3337 "	4/28	"	"	"	4.5'	11.6'	16.1'	5.4'	"	"	" " "
	18+38	3349 "	4/28	"	"	"	3.5'	21.5'	25.0'	5.4'	"	"	" " "
	22+02	3327 "	4/24	"	"	"	4.5'	17.0'	21.5	5.5'	"	"	" " "
	20+99	3319 "	4/24	"	"	"	4.5'	11.5'	16.0	5.0'	"	"	" " "
	17+08	DURANES VACANT LOT ANAYA(W)	7/10	45°	NO	NO	4'	24.1'	28.1'	5.5'	"	"	" " WEST
	24+03	VACANT LOT (N)	7/10	45°	NO	NONE	4'	6'	10.0'	5.0'	"	"	" " NORTH

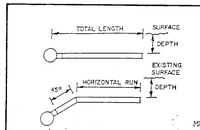


RECORD INFORMATION
SEWER SERVICE CONNECTIONS
JOB: LOS DURANES SANITARY SEWER
CITY REPRESENTATIVE: ELOY SMITH & ALAN OSTAPACK

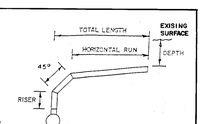


MAIN SIZE: 8" MAIN TYPE: P.V.C. SERVICE TYPE: 4" CI

Sheet or Map No.	Sta. or Mf No.	Street Address, Lot No. or Distance from Manhole	Date Inst.	Angle of Tap	Tap Concreted Yes/No	Riser Height	45° Length	Horiz. Length	Total Length	Depth at End	END Yes/No	Water Table Depth	COMMENTS Line Cond./Saddle Type/Etc.
19 of 41	26+05	3139 GABALDON PL.	4/30	45°	NO	NONE	2.2'	21.5'	23.7'	5.0'	YES	N/A	NEW/GENECO/SOUTH
"	18+48	3400 "	"	"	"	"	3.2'	21.5'	24.7'	5.1'	"	"	" " "
"	22+90	3318 "	"	"	"	"	3.8'	21.4'	25.2'	5.3'	"	"	" " "
"	23+90	3316 "	"	"	"	"	3.5'	21.5'	25.0'	5.0'	"	"	" " "
"	24+12	3314 "	"	"	"	"	3.0'	21.5'	24.5'	4.9'	"	"	" " "
	25+15	3304 "	"	"	"	"	3.1'	21.5'	24.6	5.0'	"	"	" " "
	22+80	3320 "	"	"	"	"	4.1'	21.5'	25.6	5.0'	"	"	" " SOUTH
	15+15	3377 "	5/15	VERT	"	4.0'	1.0'	23.5'	28.5'	5.5'	"	"	" " NORTH
	10+80	EMPTY LOT	5/27	VERT	"	4.5'	1.5'	17.0'	23.0'	5.0'	"	"	" " NORTH
		1202 GABALDON ROAD	4/29	45°	"	NONE	1.5'	16.0'	17.5'	5.4'	"	"	" " EAST
		1138 GABALDON ROAD	4/29	45°	"	NONE	1.5'	16.4'	16.8'	5.5'	"	"	" " EAST
		1136 GABALDON ROAD	4/30	45°	"	NONE	1.5'	16.5'	18'	"	"	"	" " EAST
		1133 GABALDON ROAD	4/30	45°	"	NONE	1.5'	31.5'	33'	"	"	"	" " WEST
		1205 GABALDON ROAD	4/30	"	"	"	1.5'	18.5'	20'	"	"	"	" " WEST



RECORD INFORMATION
SEWER SERVICE CONNECTIONS
JOB: Los Duranes Sanitary sewer #145
CITY REPRESENTATIVE: Eloy Smith & Alan Osapack



MAIN SIZE: 8" MAIN TYPE: SDR 35 SERVICE TYPE: 4"

Sheet or Map No.	Sta. or Mf No.	Street Address, Lot No. or Distance from Manhole	Date Inst.	Angle of Tap	Tap Concreted Yes/No	Riser Height	45° Length	Horiz. Length	Total Length	Depth at End	END Yes/No	Water Table Depth	COMMENTS Line Cond./Saddle Type/Etc.
19 of 41	11+24	3445 Gabaldon PL	4/16	90°	NO	3.5'	1.8'	21.2'	26.5'	5.2'	YES	N/A	NEW/ GENCO/ NORTH
	14+11	LARRANGA (Duranes Rd.)	3/8	Vert	No	5'4"	2'2"	11'-7"	19'-2"	5.7'	Yes	N/A	NEW/GENCO/NORTH
	19+32	3125 Duranes Rd. (A)	6/11	45°	No	N/A	5'	10'	15'	5'	Yes	N/A	NEW/GENCO/NORTH
	19+93	3125 Duranes Rd. (B)	6/11	45°	No	N/A	5'6"	10'2"	15.8	5'5"	Yes	N/A	NEW/GENCO/NORTH
	19+35	32+34 Duranes Rd.	6/12	45°	No	N/A	4'	19'	23'	5'10"	Yes	N/A	NEW/GENCO/SOUTH
	20+61	3230 Duranes Rd.	6/15	45°	No	N/A	3.9'	20.2'	24.1'	4'2"	Yes	N/A	NEW/GENCO/SOUTH
	21+00	Vacant Lot (E. of 3230)	6/15	45°	No	N/A	3.9'	20.2'	24.1'	4'0"	Yes	N/A	NEW/GENCO/SOUTH
	21+39	Vacant Lot	6/16	45°	No	N/A	3.2'	10.5'	13.7'	4'10"	Yes	N/A	NEW/GENCO/NORTH
	21+59	Vacant Lot	6/16	45°	No	N/A	3.0'	10.5'	13.5'	5'	Yes	N/A	NEW/GENCO/NORTH
	22+00	3216 Duranes	6/16	45°	No	2'	1'	20'	23'	5'	Yes	N/A	NEW/GENCO/SOUTH
	22+50	3214 Duranes	6/16	90°	No	2'	1'	20'	23'	5'5"	Yes	N/A	NEW/GENCO/SOUTH
	23+20	3212 Duranes	6/16	45°	No	N/A	1'	21'	22'	5'0"	Yes	N/A	NEW/GENCO/SOUTH
	23+90	Lujan Duplex	6/17	45°	No	N/A	1'	25'	26'	5'0"	Yes	N/A	NEW/GENCO/SOUTH
	14+20	3420 Duranes	6/23	90°	No	1.5'	16.2'	17.1'	34.8'	5'5"	Yes	N/A	NEW/GENCO/SOUTH
	17+51	Vacant Lot	7/10	45°	No	N/A	3.9'	24'	27.9'	5.0'	Yes	N/A	NEW/GENCO/
	17+98	3236 Duranes	7/13	45°	No	N/A	3.2'	21'	24.2'	4.5'	Yes	N/A	NEW/GENCO

24 298 6 4188A

AS BUILT INFORMATION

ORIGINATION
REVIEWED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

A STANDARD ACS BRASS TABLET, 1/2", SET IN TOP OF A CONCRETE POST PROJECTING 0.20 FT ABOVE GROUND THE STATION IS LOCATED @ THE INTERSECTION OF RIO GRANDE BLVD. NW AND MATTHEW AVE. NW ON THE WEST EDGE OF RIO GRANDE BLVD. NW.
ELEV. = 4963.22 ft. (M.S.L.D.)

ENGINEER'S SEAL

AS-BUILT CERTIFICATION:

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from the City of Albuquerque Public Works Department Engineering Group Construction Section. All vertical and horizontal dimensions should be field verified prior to use on future projects. No "as-built" vertical data has been supplied.

Jeffrey G. Mortensen
NEW MEXICO #8547 REGISTERED PROFESSIONAL ENGINEER
08-04-88
Date

NO	DATE	REMARKS	BY
4	7/88	AS-BUILT	GGJ

REVISIONS

DESIGN — DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **DURANES LIFT STATION SEWER SERVICE CONNECTIONS**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO.	MAP NO.	SHEET	OF
2986	H-21	41 A	41

RECORD DRAWING

113887