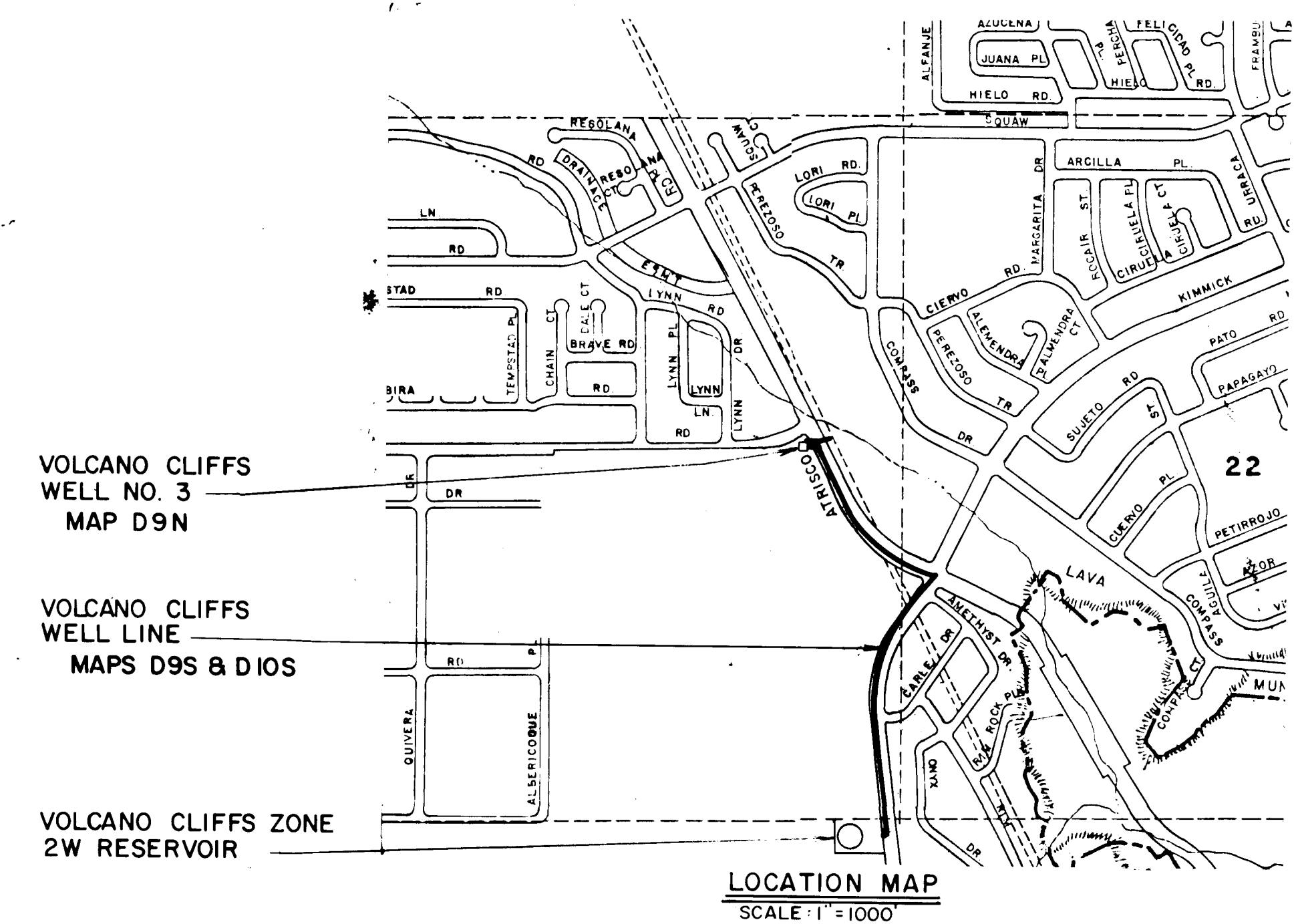
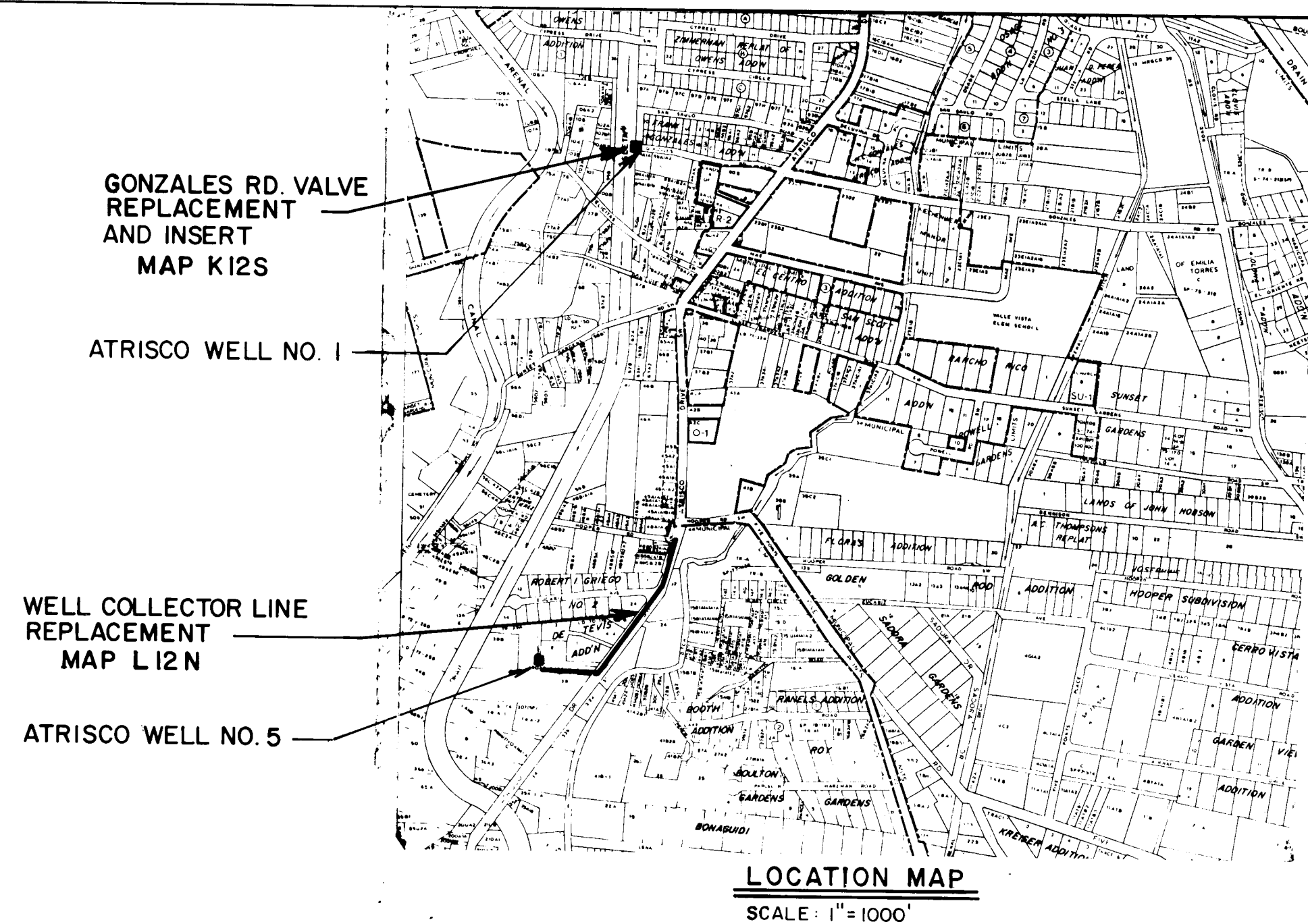


ATRISCO NO.5 AND VOLCANO CLIFFS NO. 3 WELL LINES

INDEX OF DRAWINGS

SHEET NO.	TITLE
1 OF 10	TITLE SHEET, INDEX OF DRAWINGS AND LOCATION MAPS (ATRISCO NQ5)
2 OF 10	LAYOUT PLAN
3 OF 10	COLLECTOR LINE REPLACEMENT - STA.0+00 TO STA.8+48.00 ATRISCO WELL NO.1 VALVE LOCATIONS
4 OF 10	FLOW METER PITS, CHLORINE INJECTION MANHOLE, RESERVOIR PENETRATION AND CLEANOUT DETAILS (VOLCANO CLIFFS NO.3)
5 OF 10	SITE PIPING LAYOUT PLAN, DRY WELL AND METER PIT DETAILS
6 OF 10	WASH LINE PLAN AND PROFILE
7 OF 10	COLLECTOR LINE - STA.0+00 TO STA.22+00 PLAN AND PROFILE
8 OF 10	COLLECTOR LINE - STA.22+00 TO STA.33+94.11 PLAN AND PROFILE
9 OF 10	TRAFFIC CONTROL PLAN (SOUTH ATRISCO)
10 OF 10	TRAFFIC CONTROL PLAN (NORTH ATRISCO)



DATE 1/86
BY Brian Adams

26 19960186

MARCH 1984

Engineer's Project No. 1666.52

REV	SHEET	CITY ENGINEER	DATE	USER	DATE	USER	DEPT	DATE
APPROVAL OF REVIEWING								
		LEEDSHILL-HERKENHOFF, INC. Copper Square, 500 Copper Ave. N.W. P.O. Box 1217 Albuquerque, New Mexico 87103 (505) 247-0294			APPROVED FOR CONSTRUCTION			
					PROJECT NO. 1996 SHEET 1 OF 10			

RIGID JOINT SCHEDULE			
Pipe Diameter	Station to Station		Welded Joint 1/4" Weld Length
36"	0+01.35	0+50	60"
24"	0+01.35	Butt Strap	30"
36"	3+70	4+47	60"
20"	4+47	4+87	30"
30"	4+87	5+23	60"

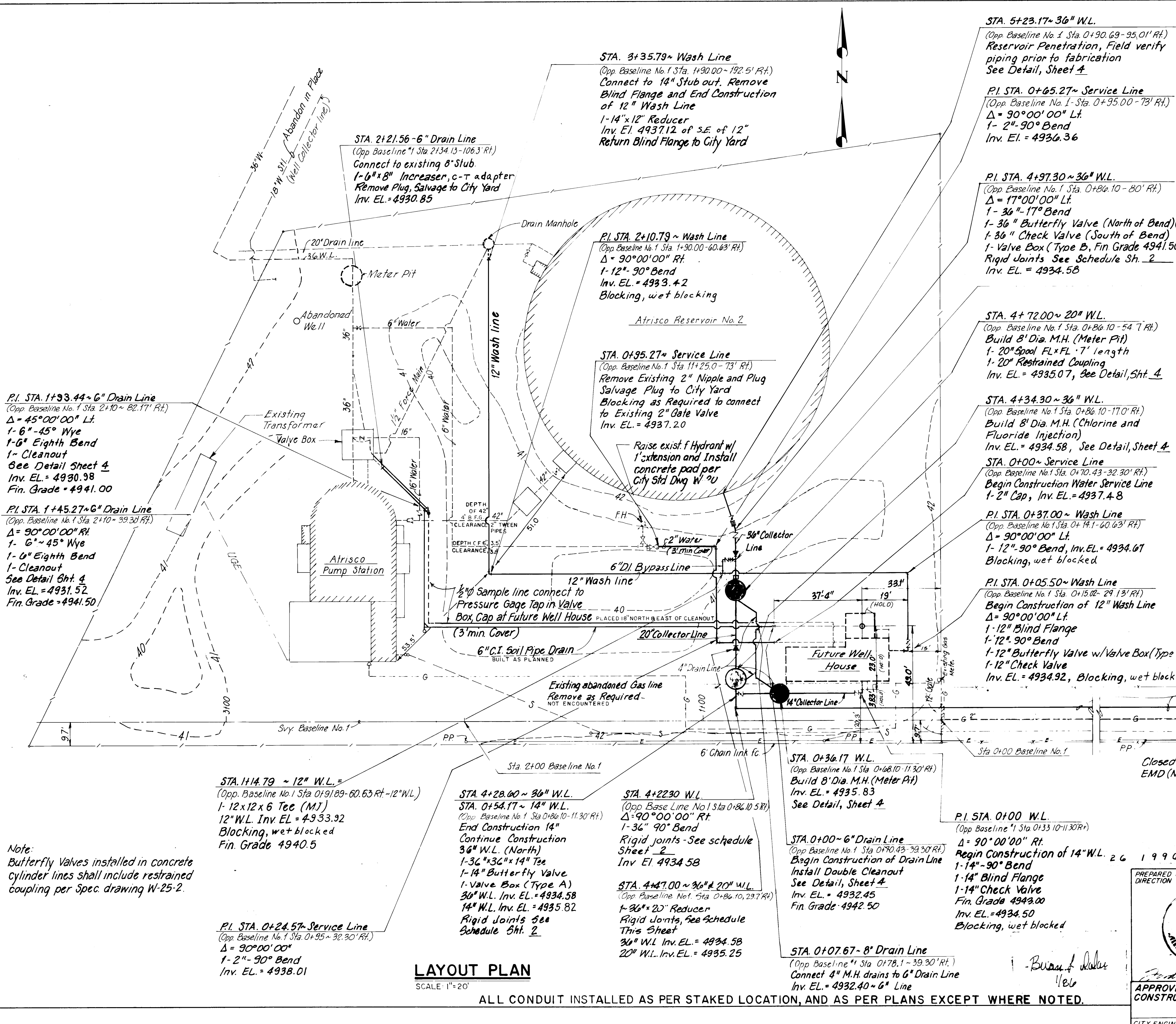
Welds to be 4" segments evenly spaced around the joint circumference

STA. 4+87.30 ~ 20" and 36" W.L.
(Opp. Baseline No. 1 Sta. 0+86.10-70.0' RT-42" WL)
1- 20"x20"x6" Tee
1- 36"x20" Reducer
1- 6" 90° Bend
1- 6" Check Valve
1- 6" Gate Valve
1- Valve Box ~ Type A
36" WL Inv. EL. = 4934.58
20" WL Inv. EL. = 4935.07
Fin. Grade 4940.50
Blocking, wet blocked 6"

STA. 0+00 ~ 30" W.L. North
(Opp. & Svy. Sta. 0+44.91-7.15' RT)
EQUATION
STA. 0+01.35 ~ 36" W.L. West
(Opp. & No. 1 Sta. 3+37.55-5' RT)
Begin Construction of 30" and 36" WL Connect to existing 24" steel well collector line South Contractor to verify location of 24" line prior to fabrication.
1- 30"x24"x36" Tee
1- 30" Butterfly Valve (per Spec. chg. W-25-2)
1- 24" Butterfly Valve
1- Valve Box ~ Type A
1- 24" butt strap
Rigid joints, See Schedule
Sht. 2

STA. 0+00 ~ 30" W.L. North
(Opp. & Svy. Sta. 0+44.91-7.15' RT)
EQUATION
STA. 0+01.35 ~ 36" W.L. West
(Opp. & No. 1 Sta. 3+37.55-5' RT)
Begin Construction of 30" and 36" WL Connect to existing 24" steel well collector line South Contractor to verify location of 24" line prior to fabrication.
1- 30"x24"x36" Tee
1- 30" Butterfly Valve (per Spec. chg. W-25-2)
1- 24" Butterfly Valve
1- Valve Box ~ Type A
1- 24" butt strap
Rigid joints, See Schedule
Sht. 2

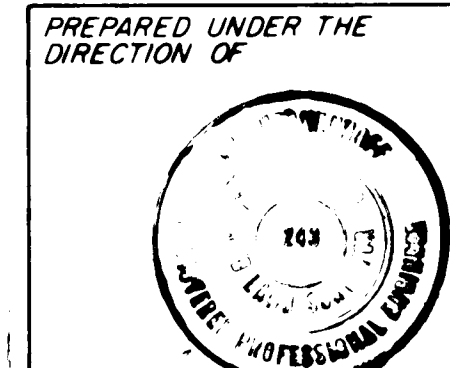
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES			
LAYOUT PLAN (ATRISCO NO. 5)			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer			Liquid Waste
A.C.E. - Design			Traffic
A.C.E. - Hydrology			Water
DRAWING NO.	1996	SHEET	2 OF 10



LAYOUT PLAN

SCALE: 1"=20'

ALL CONDUIT INSTALLED AS PER STAKED LOCATION, AND AS PER PLANS EXCEPT WHERE NOTED.



APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

RIGID JOINT SCHEDULE

Pipe Diameter	Station to Station	Welded Joint 1/4" Weld Length
30"	0+00 0+45	40"
30"	5+20 5+70	16"
30"	8+00 8+48	40"
16"	8+67.09 A11	12"

Welds to be 4" segments evenly spaced around the joint circumference.

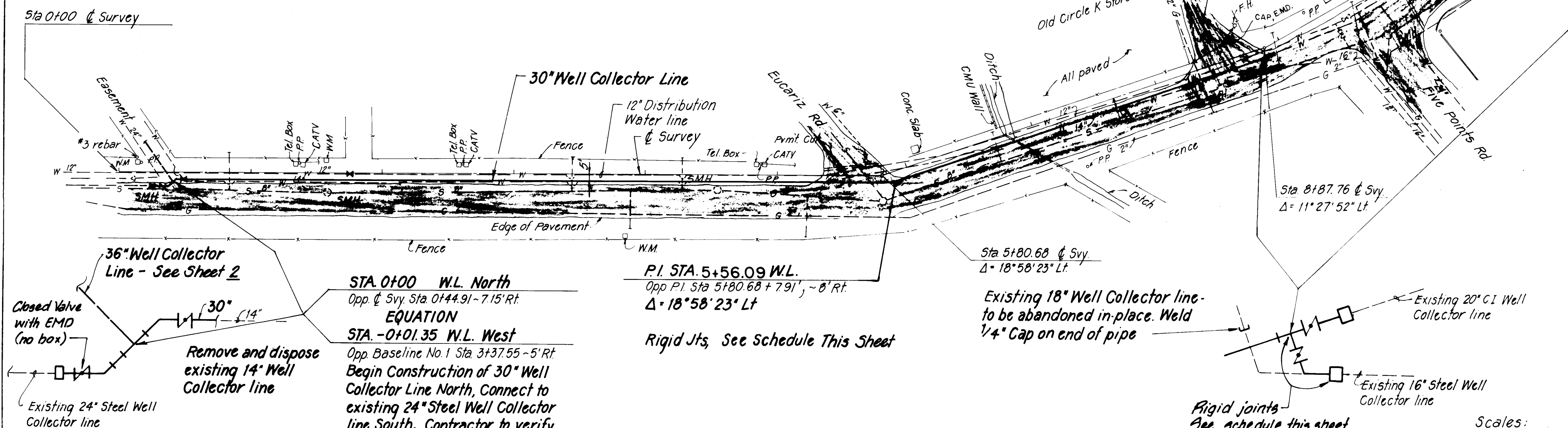
Existing 14" C.I. Well Collector Line to be replaced with new 30" Line. Remove & dispose 14" line except where new line diverges from existing alignment; there, abandon existing 14" pipe in place.

Remove and dispose of A.C. pavement as required. Replace pavement with Arterial Section as Per City Standard Drawings P-3-2, P-4 & P-7-2.

LANDS OF FRED DE TEVIS

ROBERT L. GRIEGO ADD NO 2

Deflect joints of pipe as necessary to align with existing 20" line. Maximum joint deflection shall not exceed that recommended by pipe manufacturer.



STA 8+67 W.L.

Opp. Svy. Sta. 8+84 ± ~ 8' Rt.

End Construction of new 30" Well Collector line. Connect to existing 20" C.I. line (North) and 16" Stl. line (East). Abandon existing 18" Stl. line (West). Remove and dispose existing 14" Stl. line (South). Remove and dispose existing well lines as required to make connection. Contractor to verify location of existing lines prior to fabrication.

- 1 - 30x20x16 Tee
 - 1 - 20" Butterfly Valve
 - 1 - 16" Butterfly Valve
 - 2 - Valve Boxes - Type A
 - 1 - 16" Steel Bend Angle as measured in field
 - 1 - 20" Coupling
 - 1 - 16" Butt Strap
 - 1 - 18" Cap
- Spools as required
Rigid Jts. - See Schedule This Sheet
E.M.D.

36" Well Collector Line - See Sheet 2

Remove and dispose existing 14" Well Collector line

STA 0+00 W.L. North

Opp. Svy. Sta. 0+44.91 ~ 7.15' Rt.

EQUATION

STA -0+01.35 W.L. West

Opp. Baseline No. 1 Sta. 3+37.55 ~ 5' Rt.
Begin Construction of 30" Well Collector Line North, Connect to existing 24" Steel Well Collector line South. Contractor to verify location of 24" line prior to fabrication

- 1 - 30x24x36 Tee
 - 1 - 30" Butterfly Valve
 - 1 - 24" Butterfly Valve
 - 1 - Valve Box - Type A
 - 1 - 24" Butt Strap
- Rigid Jts. See Schedule This Sheet
E.M.D.'S (4)

P.I. STA 5+56.09 W.L.

Opp. P.I. Sta. 5+80.68 + 7.91' ~ 8' Rt.
Δ = 18° 58' 23" Lt

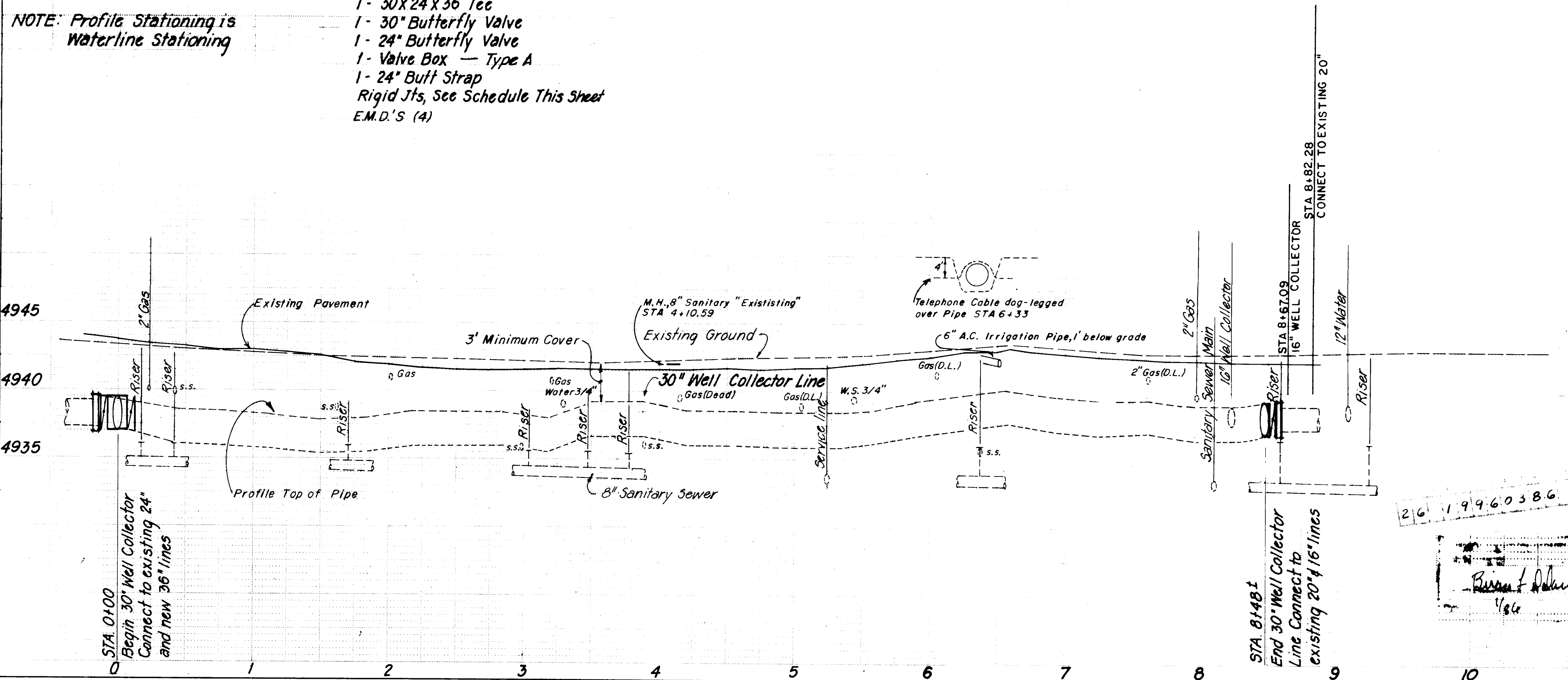
Rigid Jts. See Schedule This Sheet

Existing 18" Well Collector line to be abandoned in place. Weld 1/4" Cap on end of pipe

Rigid joints See schedule this sheet

Scales:
Horiz. 1"=50'
Vert. 1"=5'

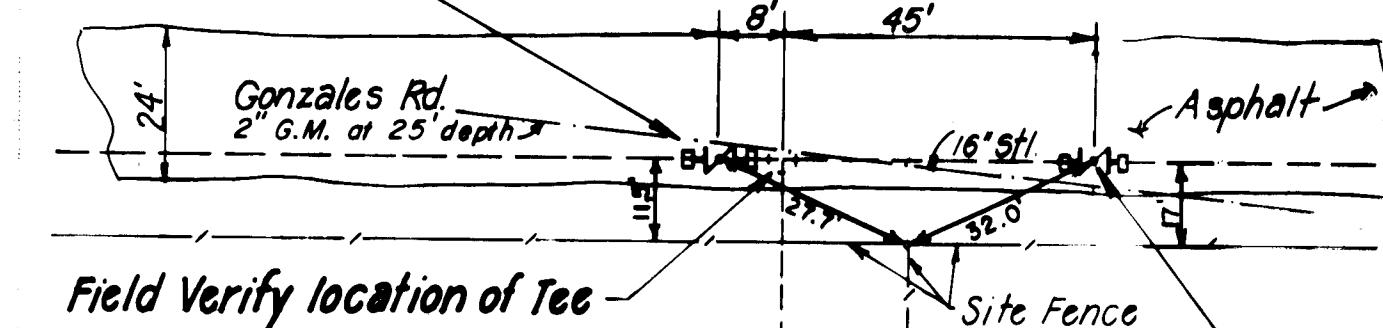
NOTE: Profile Stationing is Waterline Stationing



Install new 16" Butterfly Valve in existing 16" Stl. Well Collector.

- 1 - 16" Butterfly Valve FL x FL w/ Valve Box (Type A)
 - 2 - 16" Stl. Spools FL x PE (1/4" Thick Wall - 2' long)
 - 2 - 16" Couplings
- Coat pipe & couplings with Coal Tar enamel

Remove & dispose of A.C. pavement as required. Replace pavement with Residential Section.



Field Verify location of Tee

Replace existing valve with new 16" Butterfly Valve and return existing valve to City.
1 - 16" Butterfly Valve FL x FL w/ Valve Box (Type A)
2 - 16" Stl. Spools FL x PE (1/4" Thk. Wall, 2' long)
2 - 16" Couplings
Coat pipe and couplings with Coal Tar Enamel.
Line depth at intersection 3.5'
E.M.D.

ATRISCO WELL NO. 1

Scale: 1"=30'

PREPARED UNDER THE DIRECTION OF



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

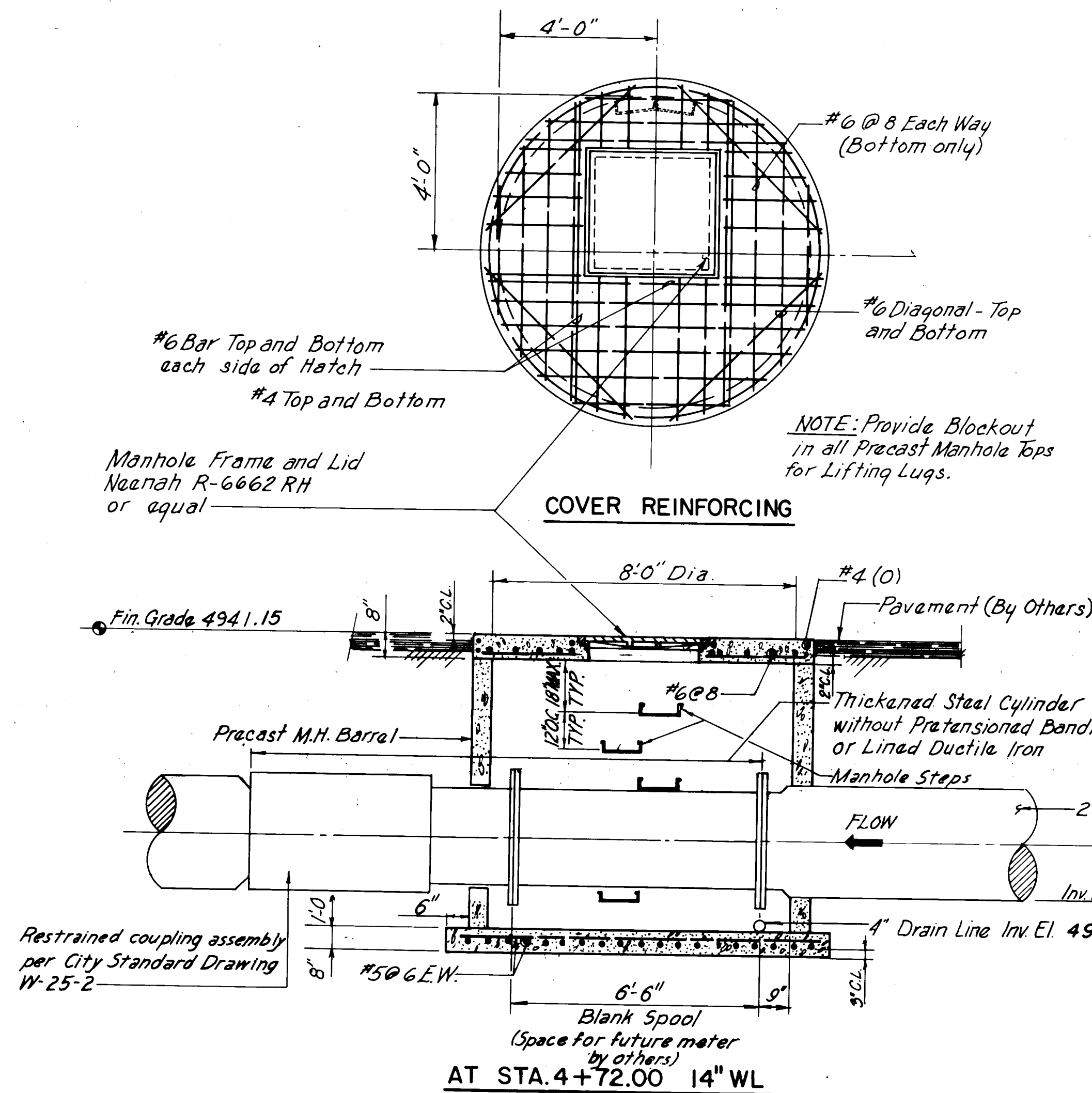
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES
COLLECTOR LINE STA. 0+00 TO STA. 8+48 ±
AND ATRISCO WELL NO. 1 VALVE LOCATIONS

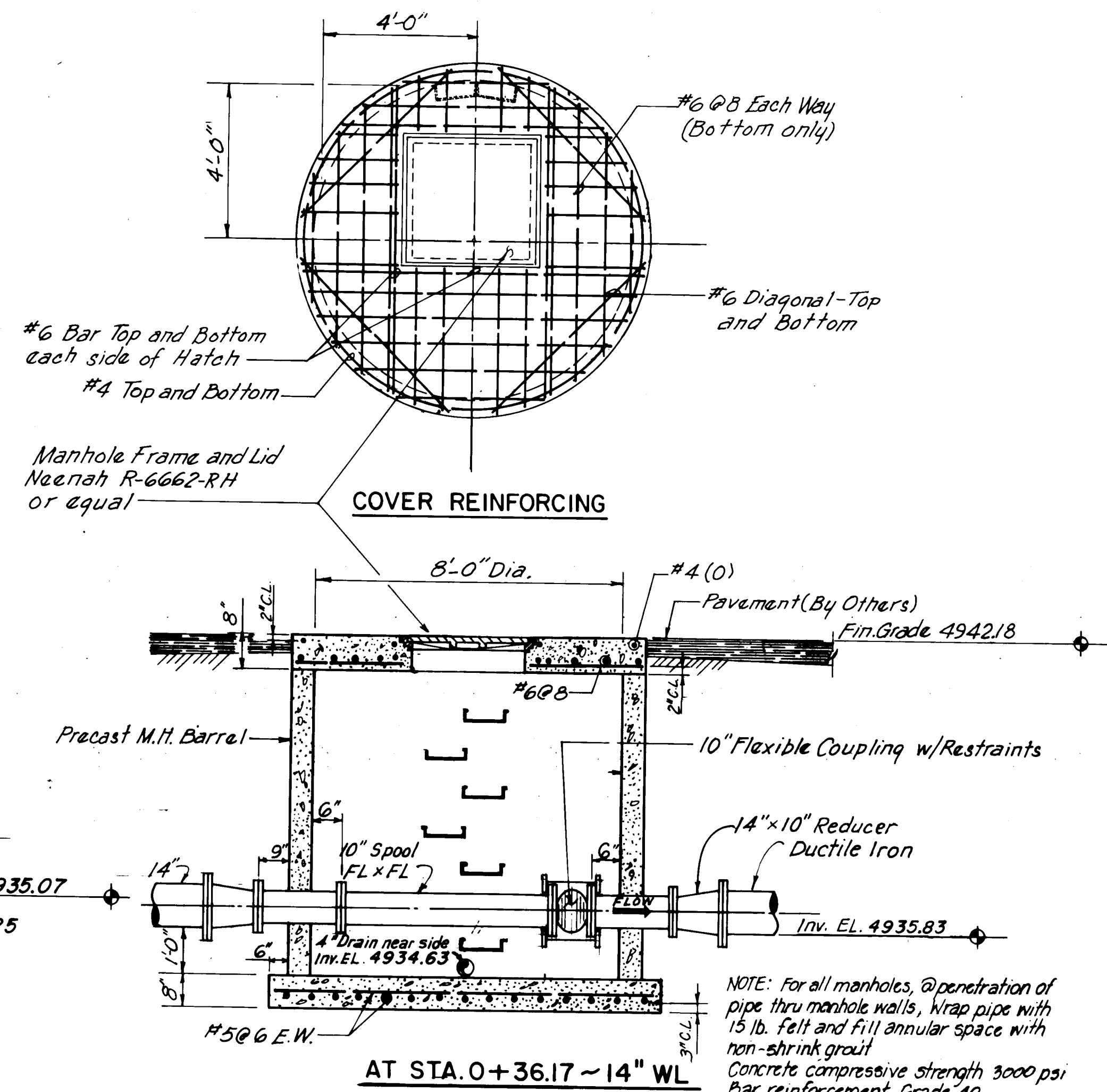
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		

DRAWING NO. 1996

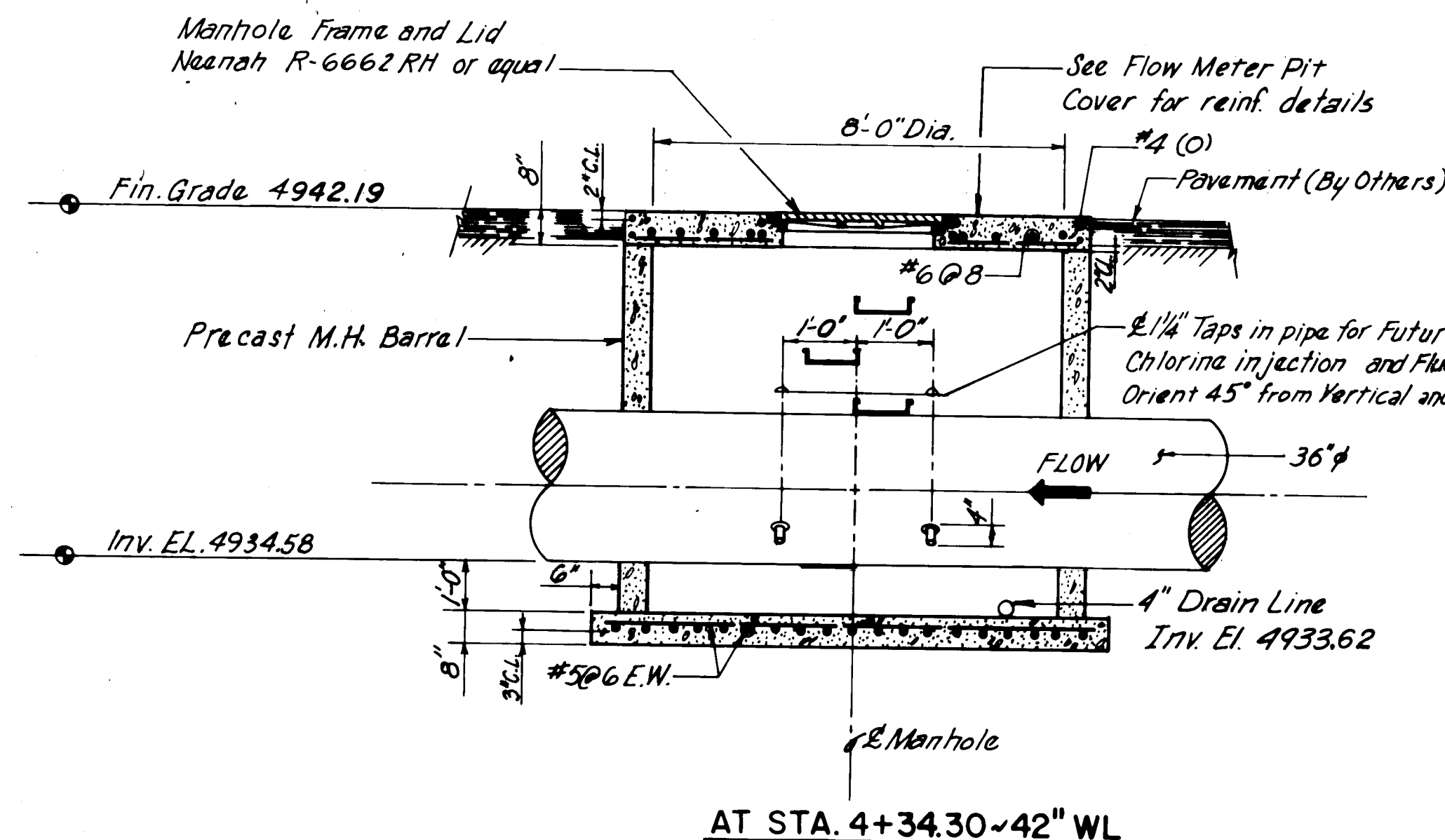
SHEET 3 OF 10



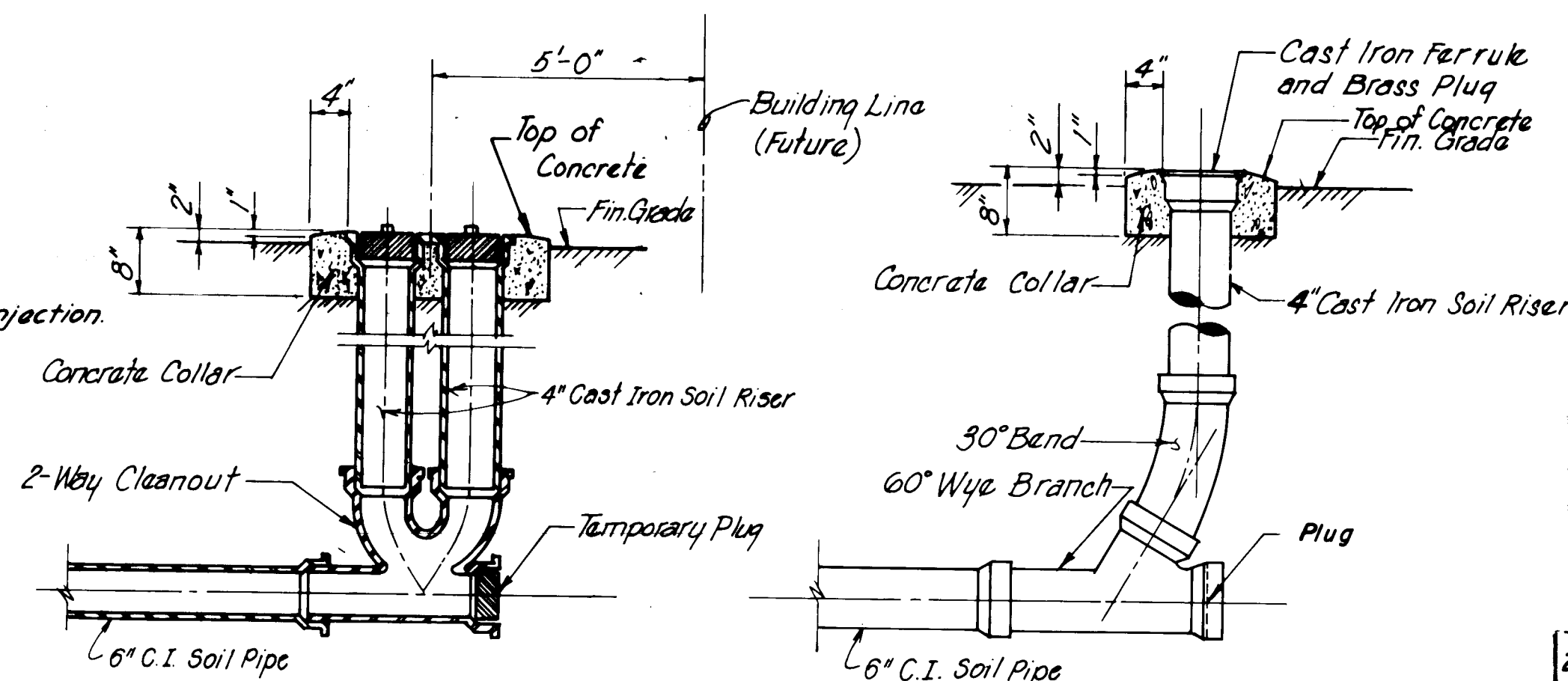
VENTURI FLOW METER PIT
NOT TO SCALE



FLOW METER PIT
SCALE: 3/8" = 1'-0"

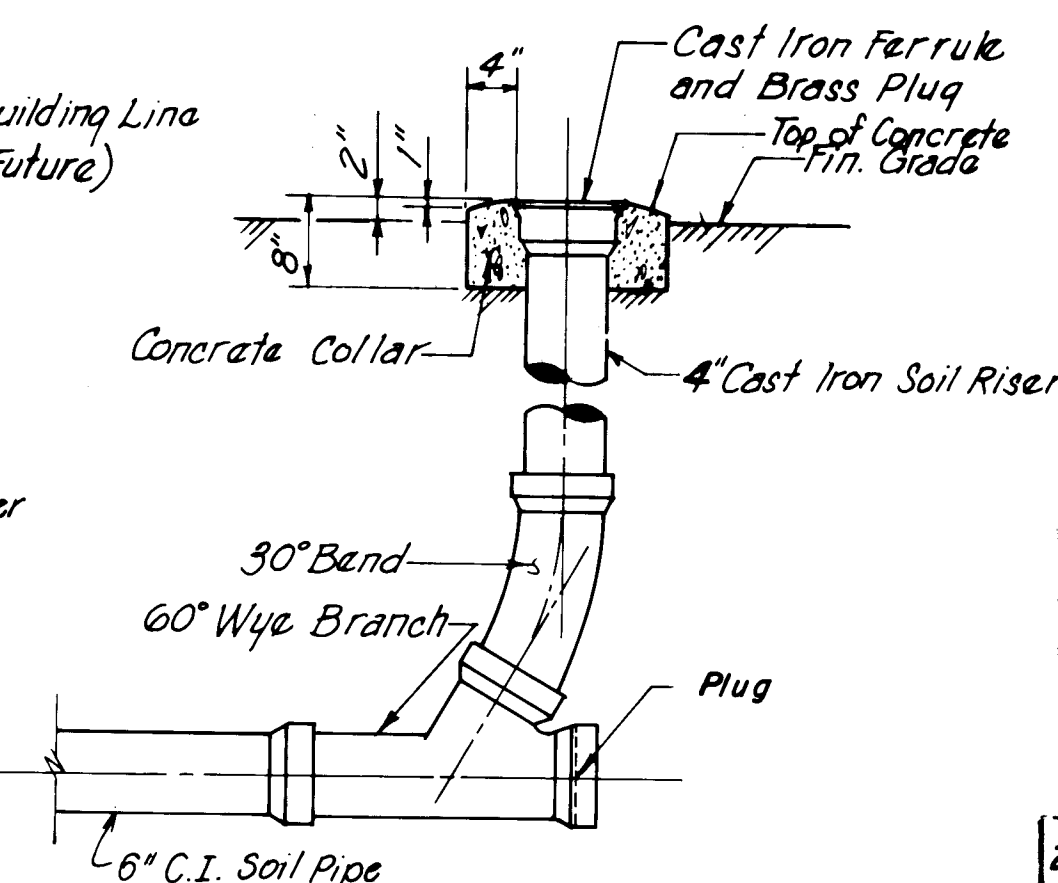


FLUORIDE AND CHLORINE INJECTION MANHOLE
NOT TO SCALE

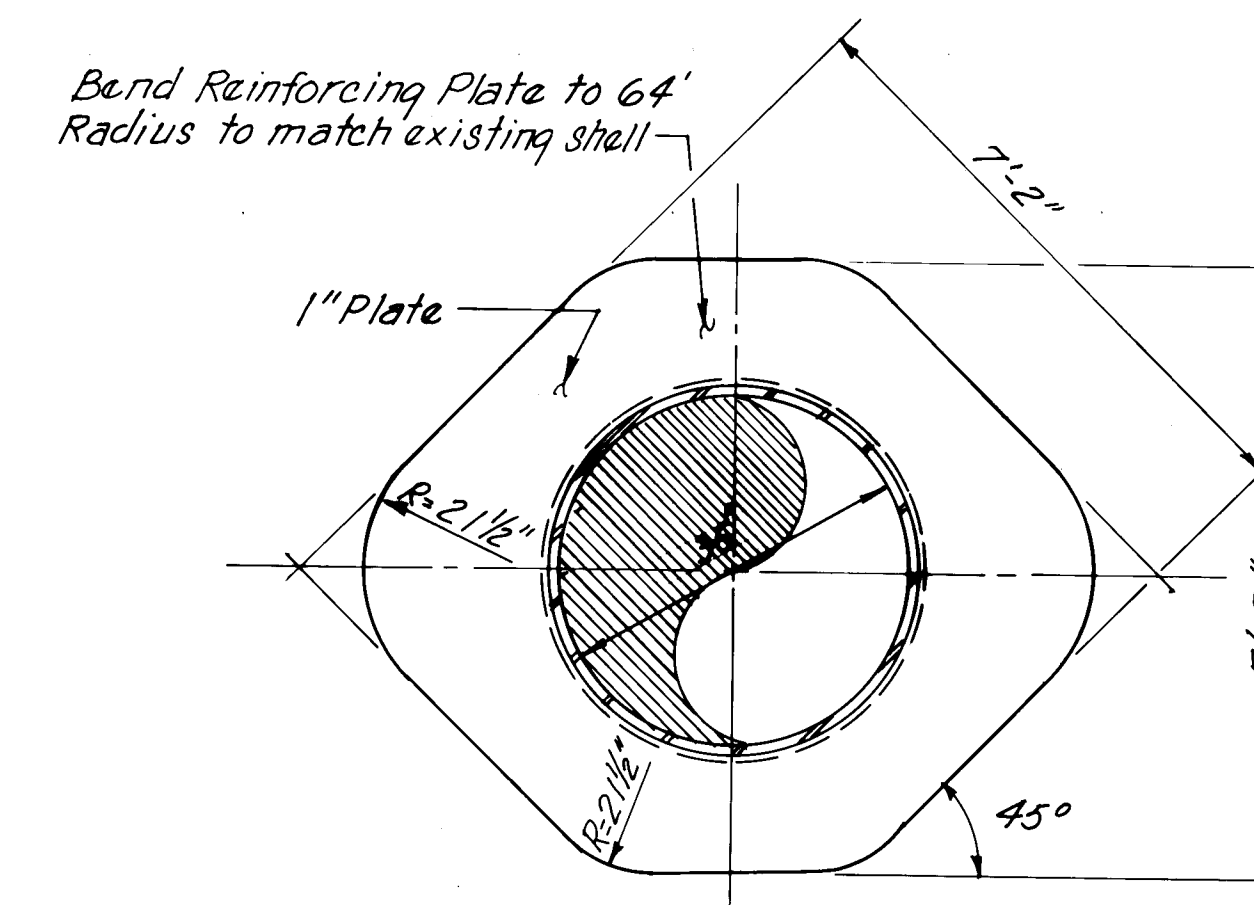


ATRISCO NO.5

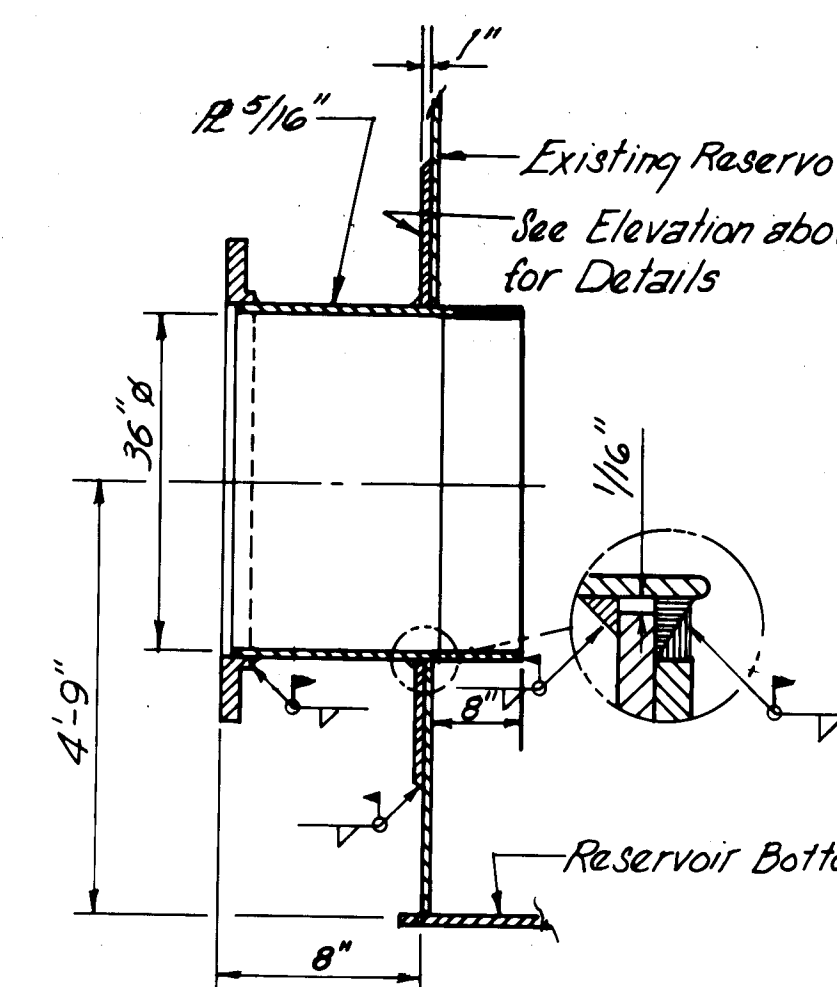
DOUBLE CLEANOUT DETAIL
NOT TO SCALE



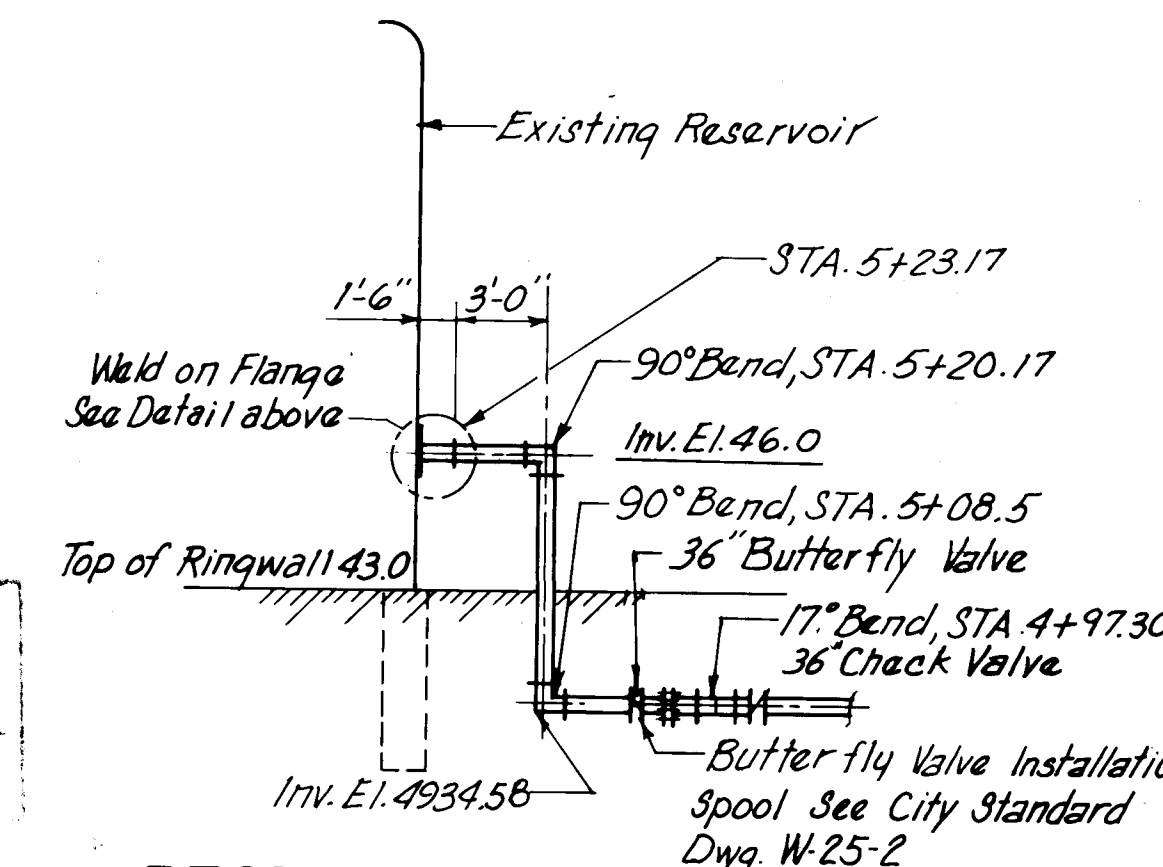
CLEANOUT DETAIL



SECTION-ELEVATION



SECTION



Dwg. W-25-2

RESERVOIR PENETRATION DETAIL

NOT TO SCALE

				REFERENCES		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				MAP NO. L 12 N		FIELD NOTES					
				EST. NO.	W.O. NO.	NO.	BY	DATE			
NO.	DATE	REMARKS	BY								
REVISIONS											
DESIGN											
DESIGNED BY	DATE										
DRAWN BY	DATE										
MICRO-FILM INFORMATION											
CORRECTED BY D.B. DATE 12/85											
FIELD ACCEPTANCE BY R. Lucero WUD DATE 12/85											
INSPECTION BY R. Lucero WUD DATE 12/85											
WORK ORDER BY INTEREST											
CONTRACTOR INTEREST											

WATER RESOURCES DEPARTMENT
ATMOSPHERIC & EARTH SCIENCES WINGS
Brian L. Dolan
1/80

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

PREPARED UNDER THE
DIRECTION OF



Gordon H. ...

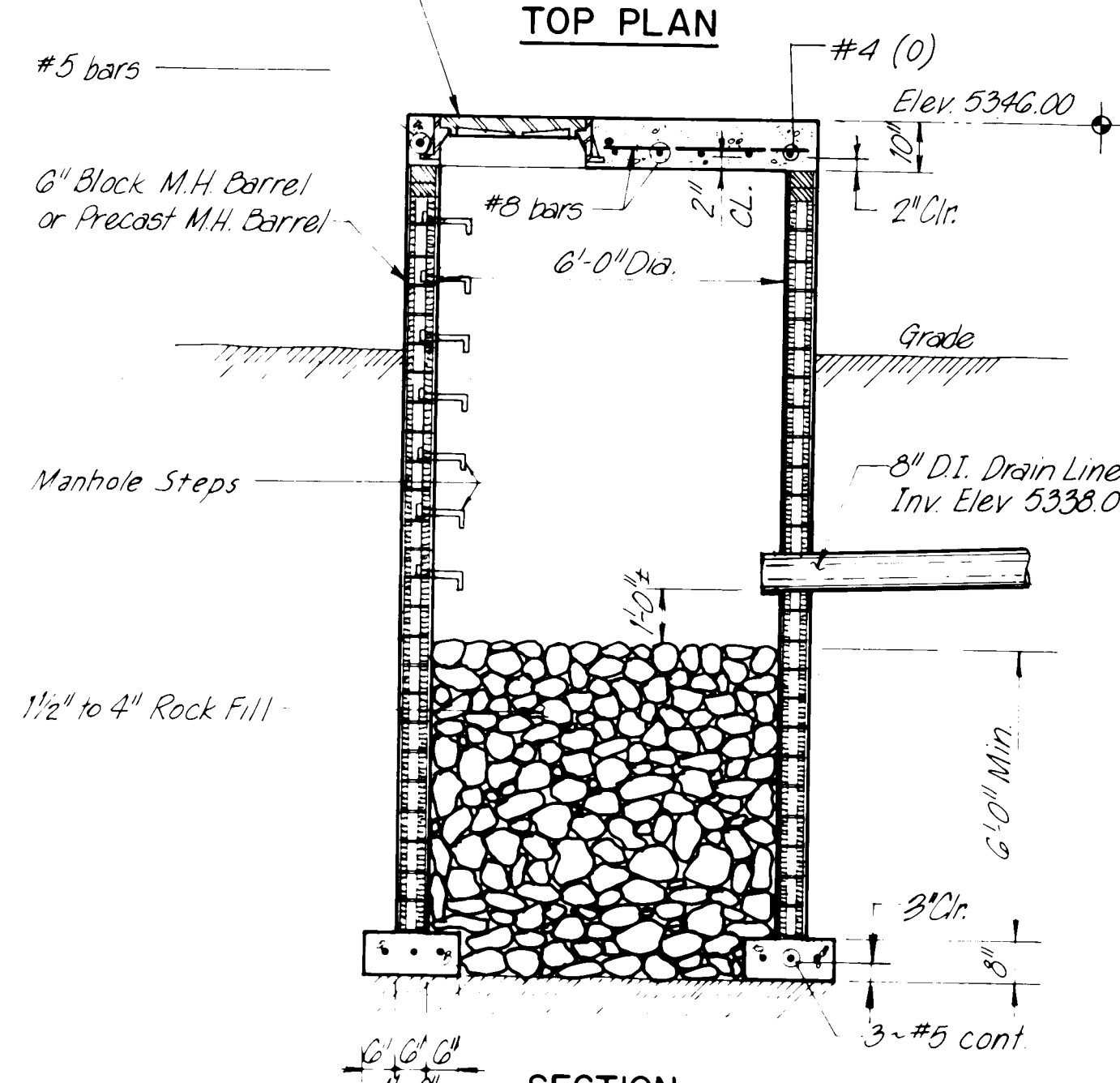
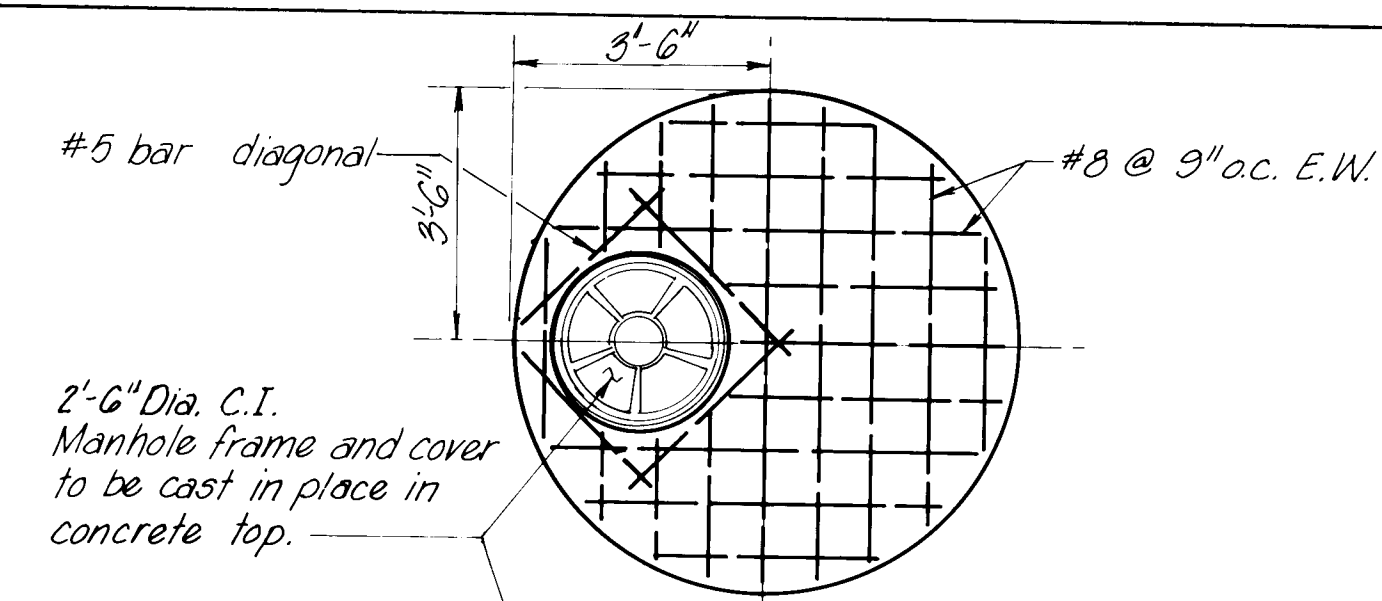
**APPROVED FOR
CONSTRUCTION**

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

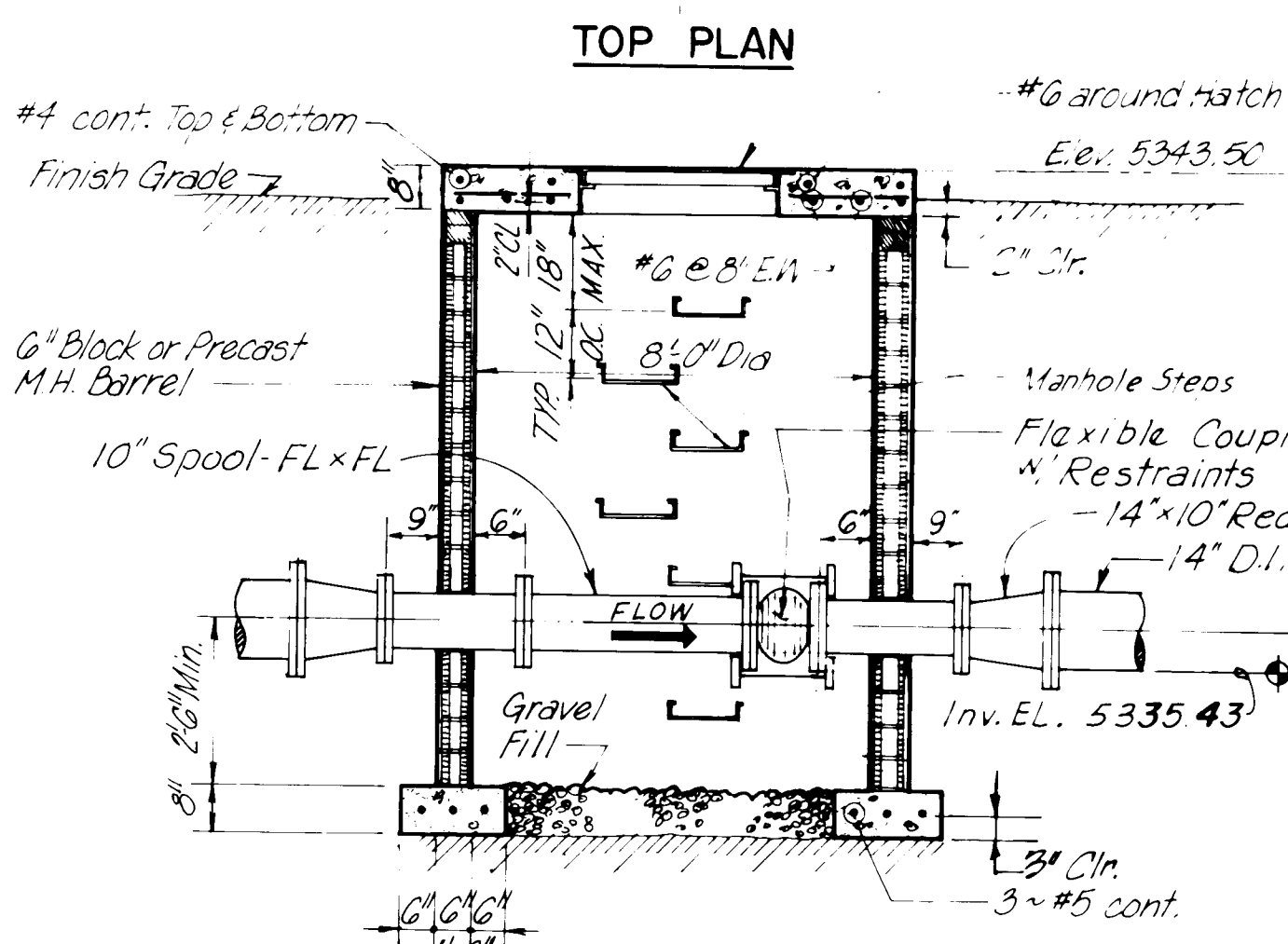
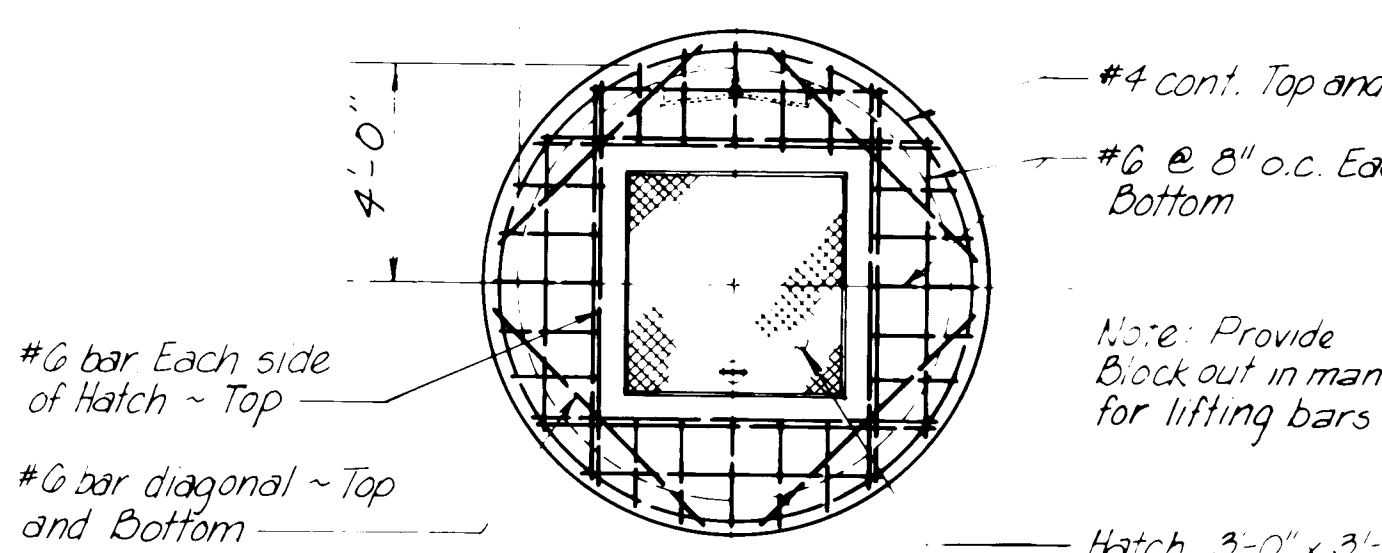
TITLE:ATRISCO NO.5 AND VOLCANO CLIFFS NO.3 WELL LINES
FLOW METER PITS,CHLORINE INJECTION MANHOLE
RESERVOIR PENETRATION AND CLEANOUT DETAILS
(ATRISCO NO.5)

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

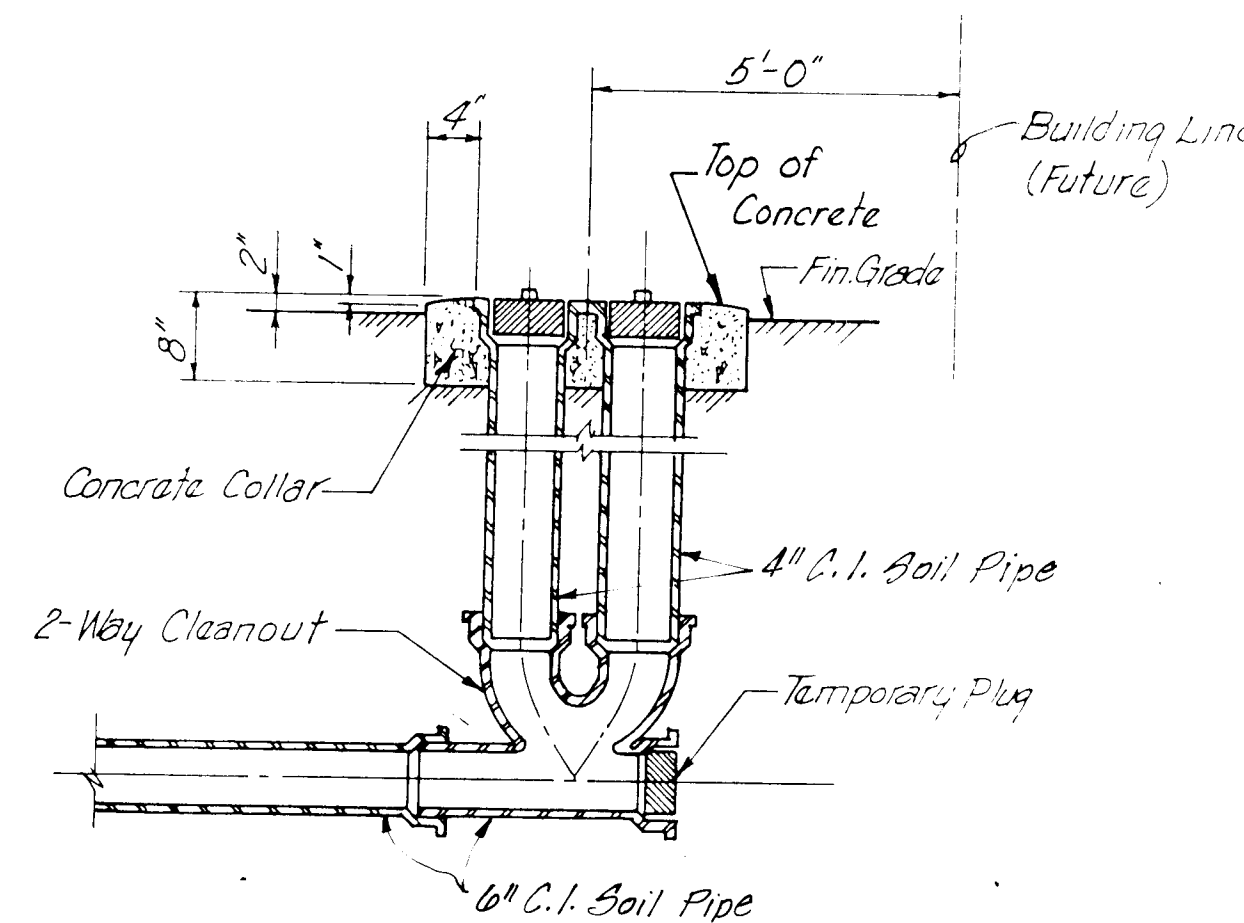
DRAWING NO.	1996	SHEET	4	OF	10
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SECTION
DRY WELL DETAIL
SCALE: 3/8" = 1'-0"

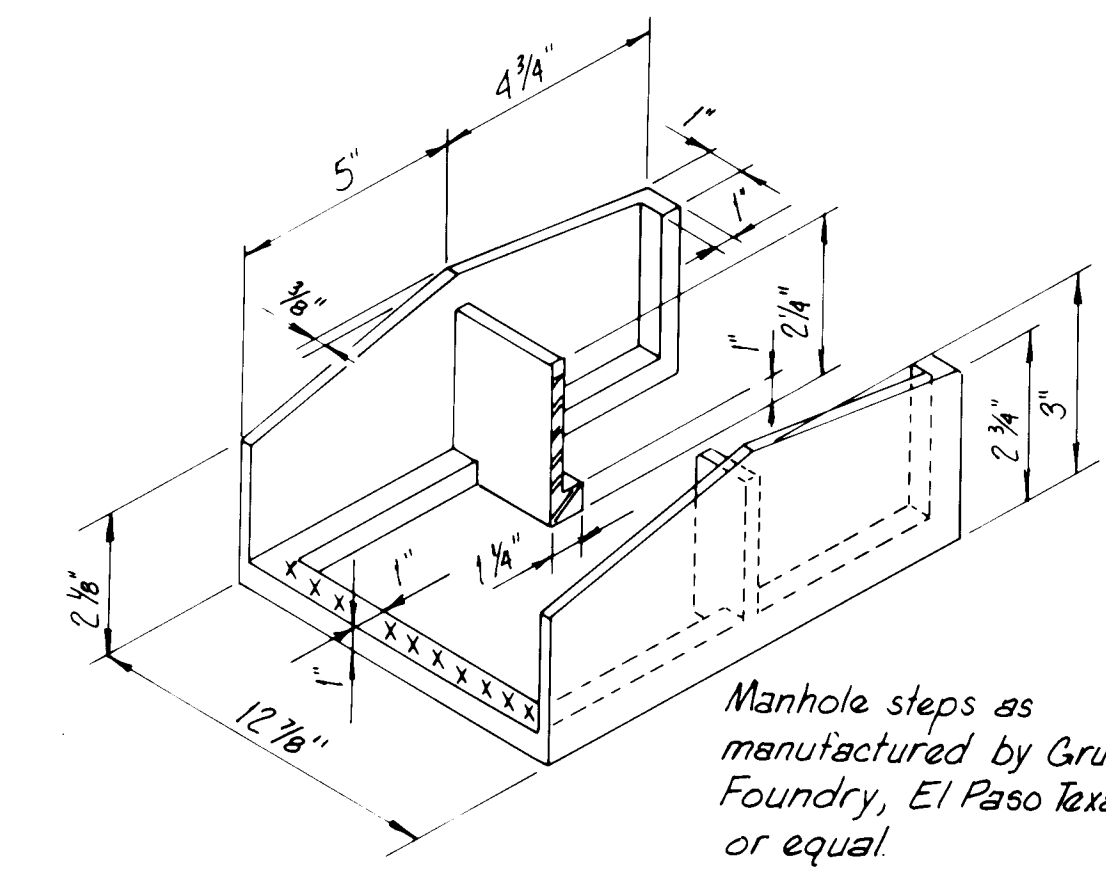


SECTION
METER PIT DETAIL
NOT TO SCALE

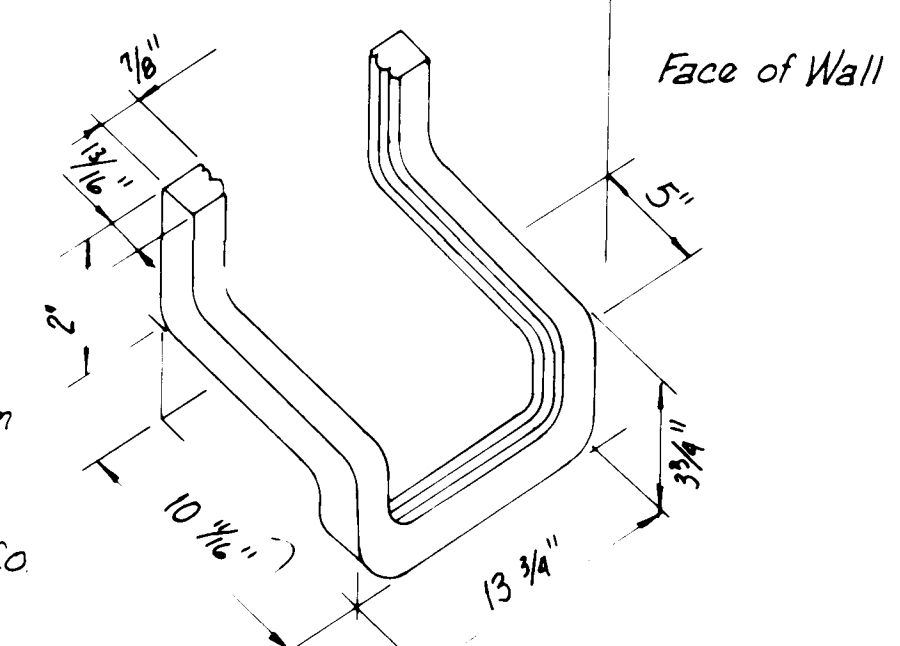


DOUBLE CLEANOUT DETAIL
NOT TO SCALE

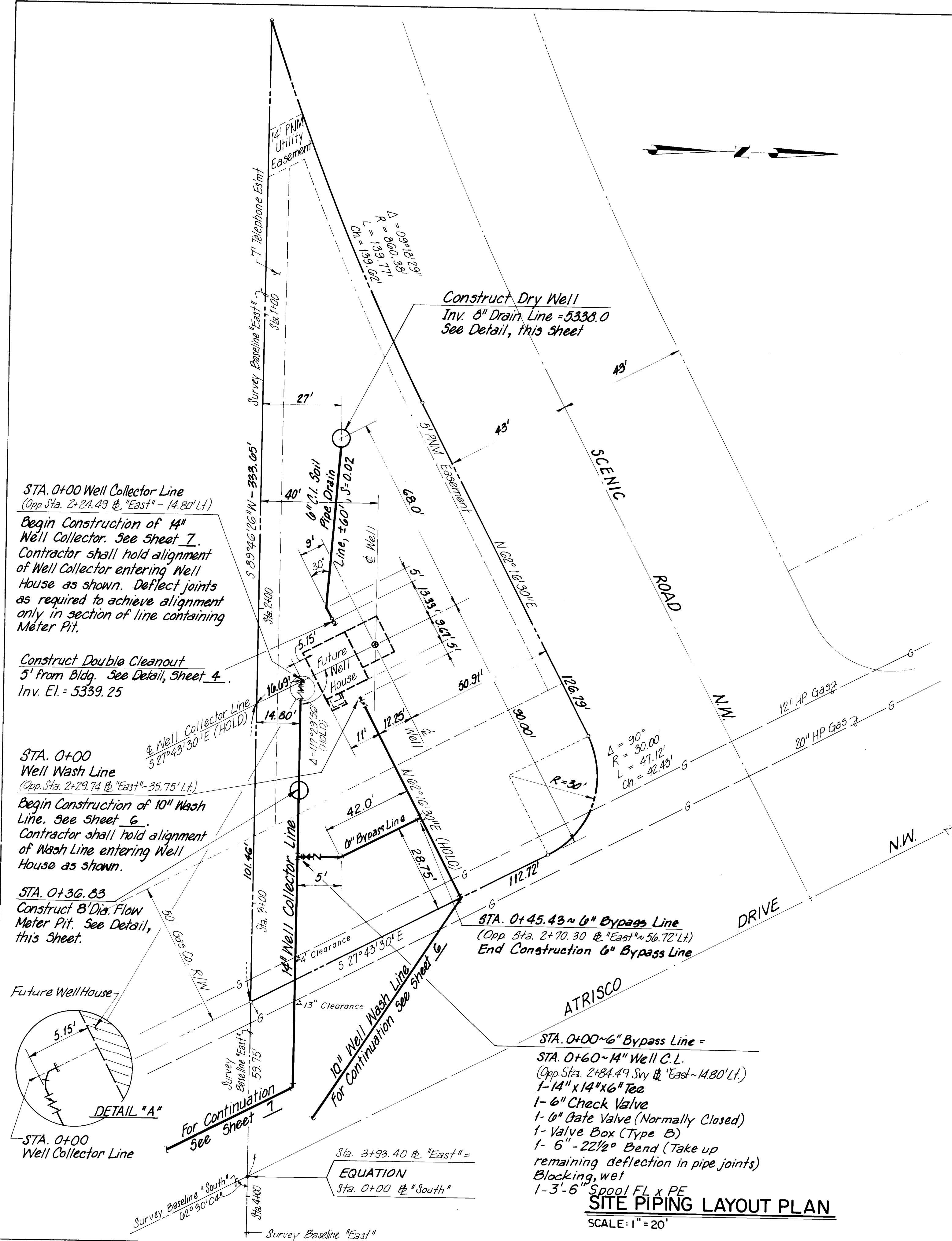
Note: For all Manholes; At penetration of pipe through Manhole walls, wrap pipe with 15 lb. felt and fill annular space w/non-shrink grout.



CAST IRON STEP



ALUMINUM STEP
MANHOLE STEP DETAILS
NOT TO SCALE



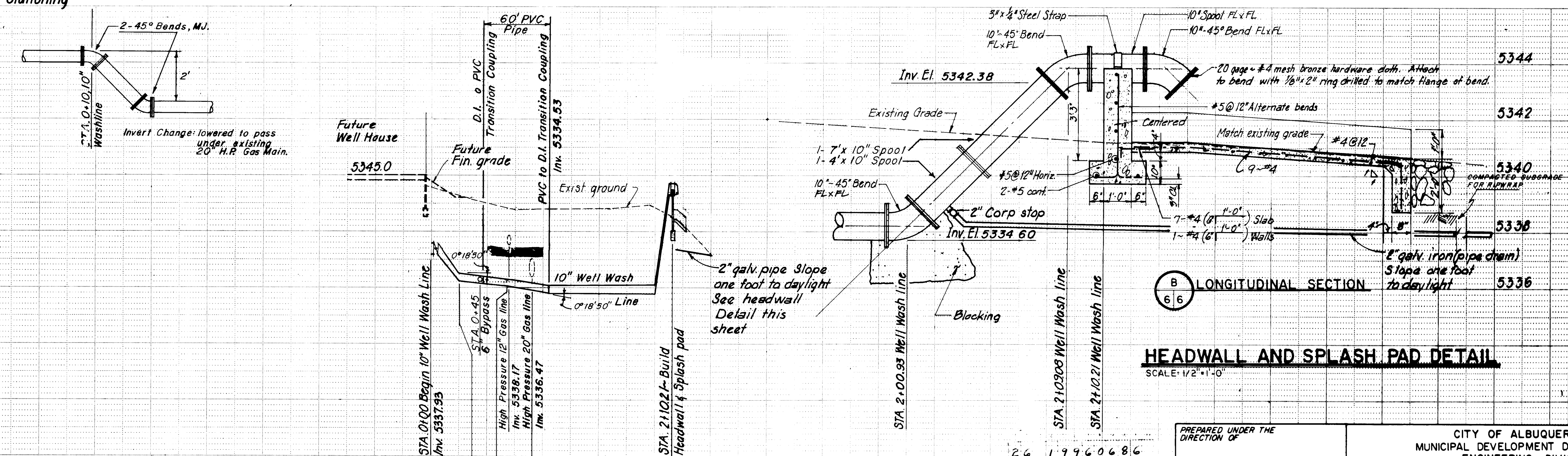
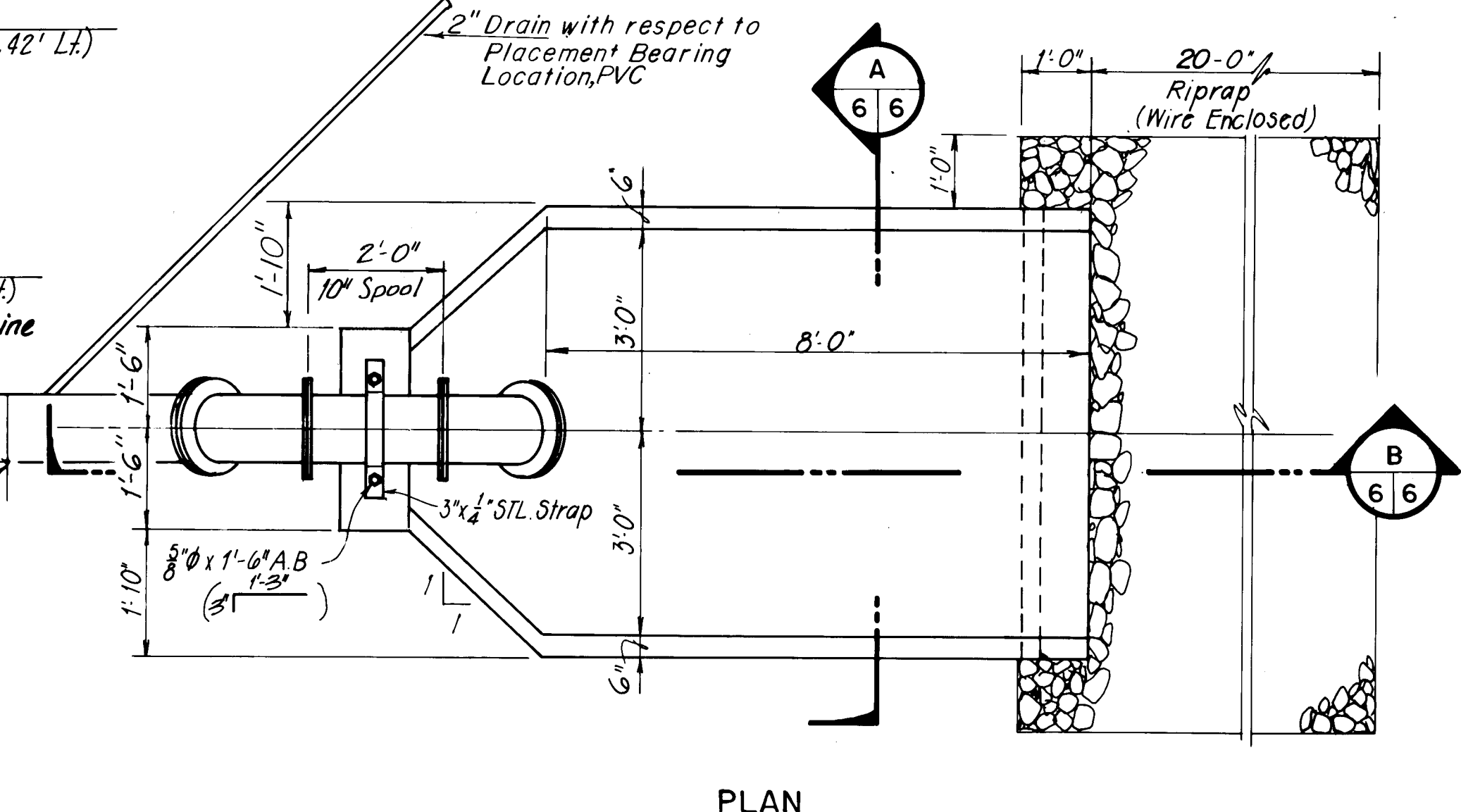
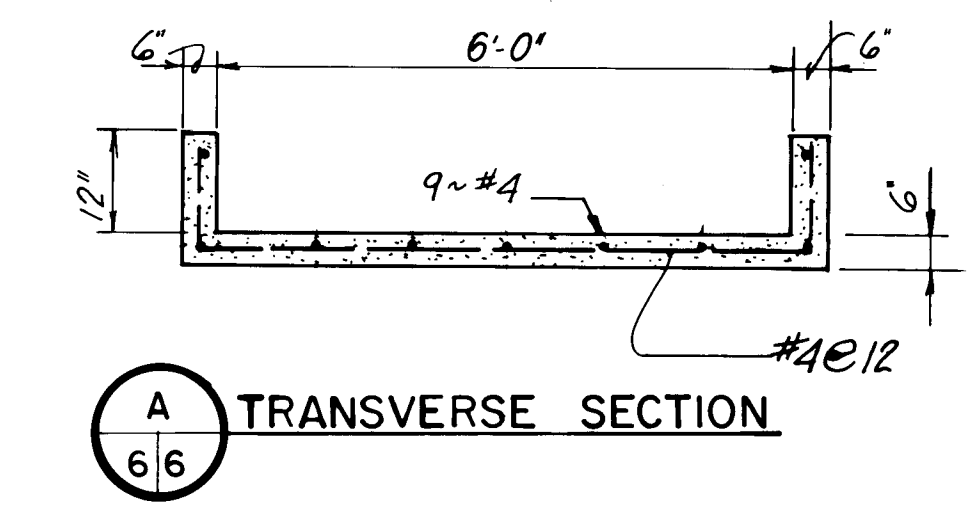
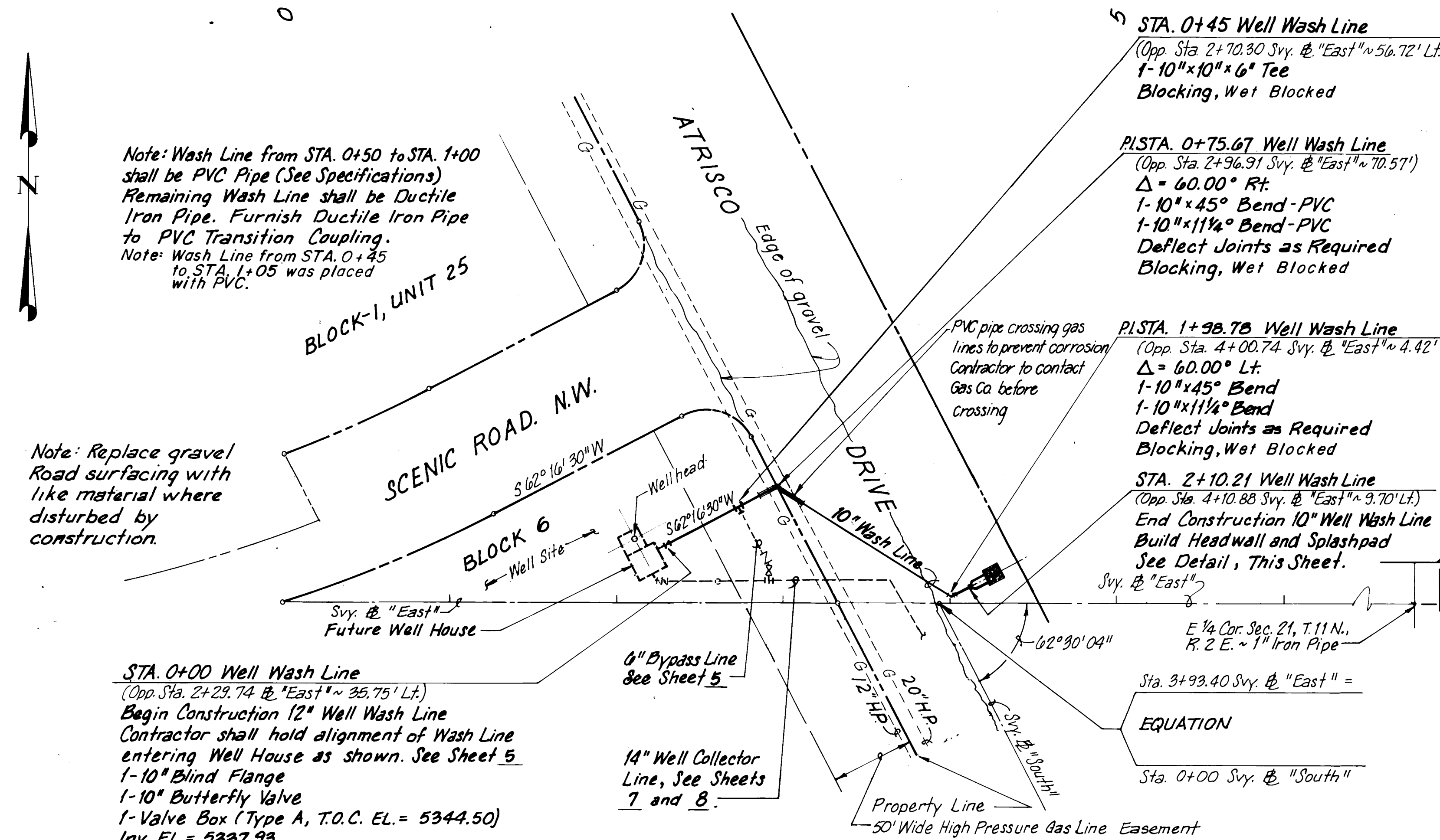
SITE PIPING LAYOUT PLAN
SCALE: 1" = 20'

ALL CONDUIT INSTALLED AS PER STAKED LOCATION, UNLESS OTHERWISE NOTED.

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			REFERENCES			REVISIONS		
CONTRACTOR	INTEREST	DATE	CONTRACTOR	INTEREST	DATE	MAP NO.	D	N	EST NO.	W.O. NO.	BY	NO.	DATE	DATE
Albuquerque City Surveyors Bench Mark B-D10	INTEREST	12/85	Albuquerque City Surveyors Bench Mark B-D10	INTEREST	12/85									
INSPECTION BY: R. Lucero	WUD DATE	12/85	INSPECTION BY: R. Lucero	WUD DATE	12/85									
FIELD CHECK BY: R. Lucero	WUD DATE	12/85	FIELD CHECK BY: R. Lucero	WUD DATE	12/85									
VERIFICATION BY: D.B.	DATE	12/85	VERIFICATION BY: D.B.	DATE	12/85									
CORRECTED BY:			CORRECTED BY:											
MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION			MICRO-FILM INFORMATION		
RECORDED BY:			RECORDED BY:			DESIGNED BY	KWW	DATE	SEPT. 1983	DRAWN BY	PAP	CHECKED BY		DATE
						REVISIONS								
						DESIGN								

APPROVED FOR CONSTRUCTION
CITY ENGINEER
DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION				
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES SITE PIPING LAYOUT PLAN DRY WELL AND METER PIT DETAILS (VOLCANO CLIFFS NO. 3)				
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER
City Engineer			Liquid Waste	
A.C.E. - Design			Traffic	
A.C.E. - Hydrology			Water	
DRAWING NO.	1996		SHEET	5 OF 10



SCALES:
 Horiz 1" = 50'
 Vert 1" = 5'

NOTE: Profile is Wash Line Stationing

AS BUILT INFORMATION										BENCH MARKS		SURVEY INFORMATION				REFERENCES				REVISIONS			
CONTRACTOR INTEREST DATE										ALBUQUERQUE CITY SURVEYS BENCH MARK # 010 - 040		FIELD NOTES				MAP NO. D 9 N				DESIGN			
WORK STAKED BY DATE										PENNY NAIL IN THE EAST POLE OF Pylon # 23/6		BY				EST. NO.				DRAWN BY			
ACCEPTANCE BY DATE										FLICK 5331.91		NO.				W.O. NO.				CHECKED BY			
FIELD VERIFICATION BY DATE																							
CORRECTED BY DATE																							
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PREPARED UNDER THE DIRECTION OF

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO 5 AND VOLCANO CLIFFS NO 3 WELL LINES
WASH LINE
(VOLCANO CLIFFS NO 3)

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

DRAWING NO. 1996

SHEET 6 OF 10

VOLCANO CLIFFS UNIT 14

RIGID JOINT SCHEDULE

Pipe Diameter	Sta. to Sta.	Welded Joint Length
24"	11+90.34 12+30	30'
24"	15+60 16+00	16'
24"	32+70 33+20	16"
24"	33+70 Exist. Tee	16"

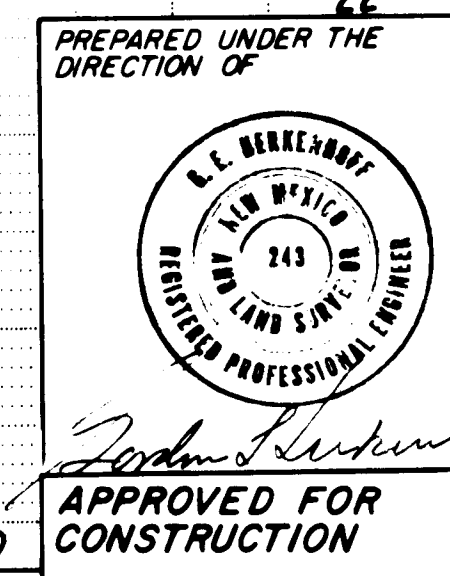
Welds to be 4" segments evenly spaced around the joint circumference

CURVE DATA WELL COLLECTOR LINE

Curve 1	Curve 2	Curve 3
$\Delta = 36.30^\circ$ $R = 935.12$ $T = 306.55$ $L = 592.44$ $C = 582.59$	$\Delta = 12.65^\circ$ $R = 537.67$ $T = 59.60$ $L = 118.71$ $C = 118.47$	$\Delta = 19.70^\circ$ $R = 987.08$ $T = 171.38$ $L = 339.38$ $C = 337.72$

NOTE:
Deflect Joints as required to maintain alignment of collector line thru curve. Max. deflection per joint shall not exceed that recommended by Pipe manufacturer.

Note: Replace gravel and asphalt surfacing where disturbed by construction. Replace asphalt pavement with Residential section per City Std. Dwg.s P-1-1, P-2-1 and P-7-2. Replace gravel with like material and thickness.

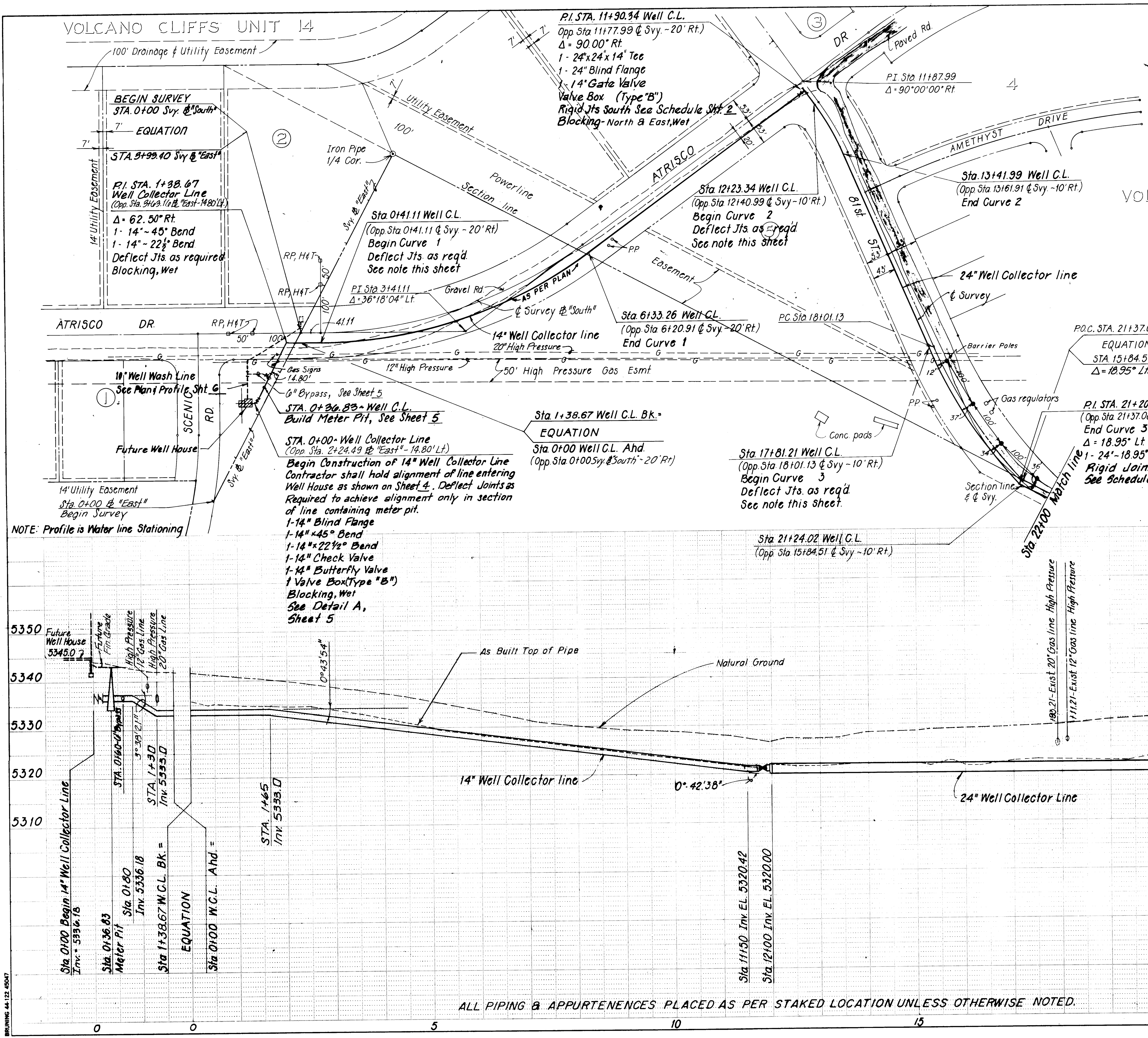


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

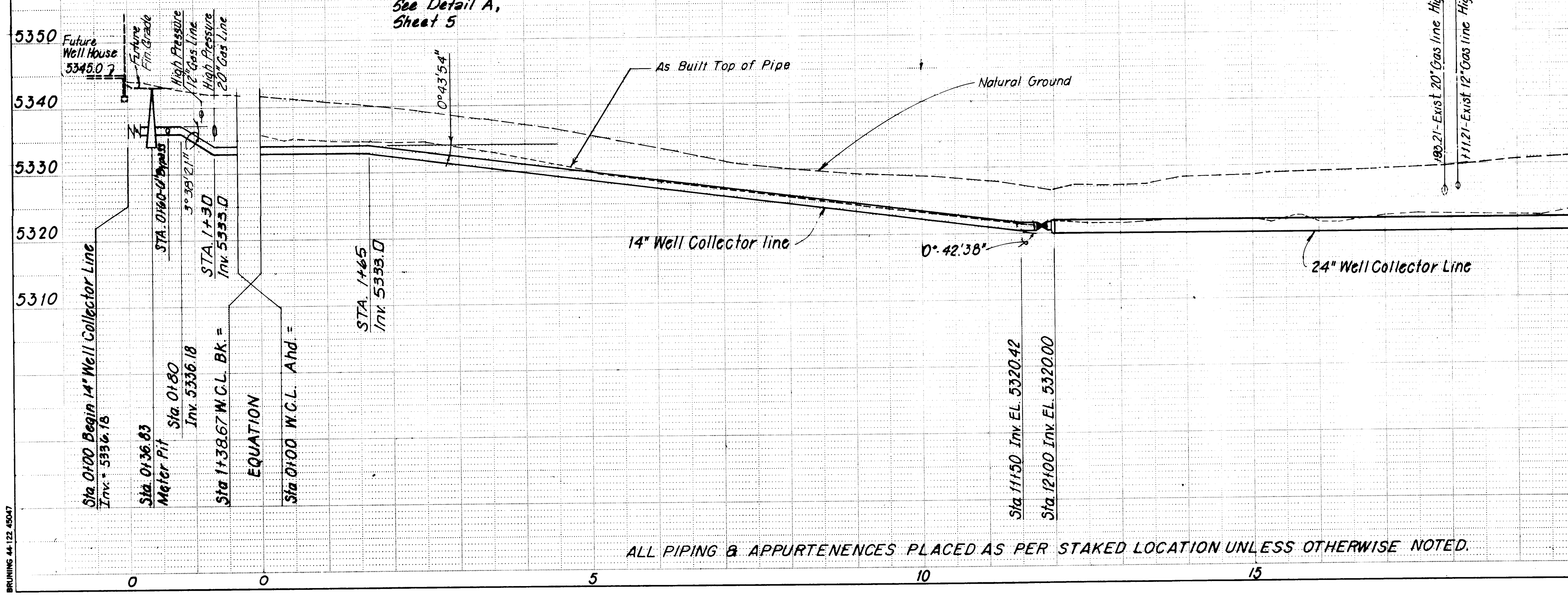
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES
COLLECTOR LINE, STA. 0+00 TO STA. 22+00
(VOLCANO CLIFFS NO. 3)

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

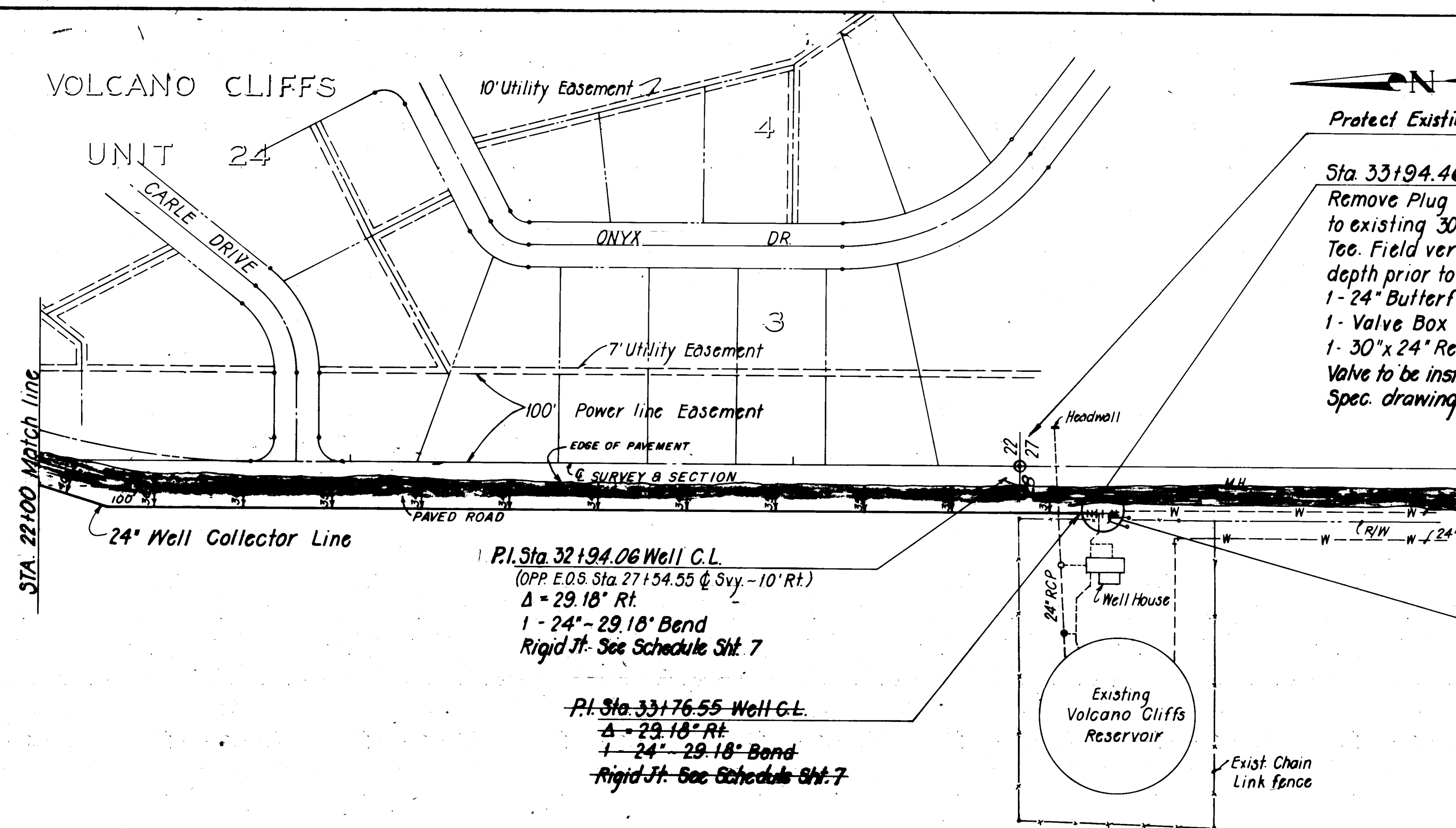
DRAWING NO. 1996 SHEET 7 OF 10



NOTE: Profile is Water line Stationing



ALL PIPING & APPURTENANCES PLACED AS PER STAKED LOCATION UNLESS OTHERWISE NOTED.

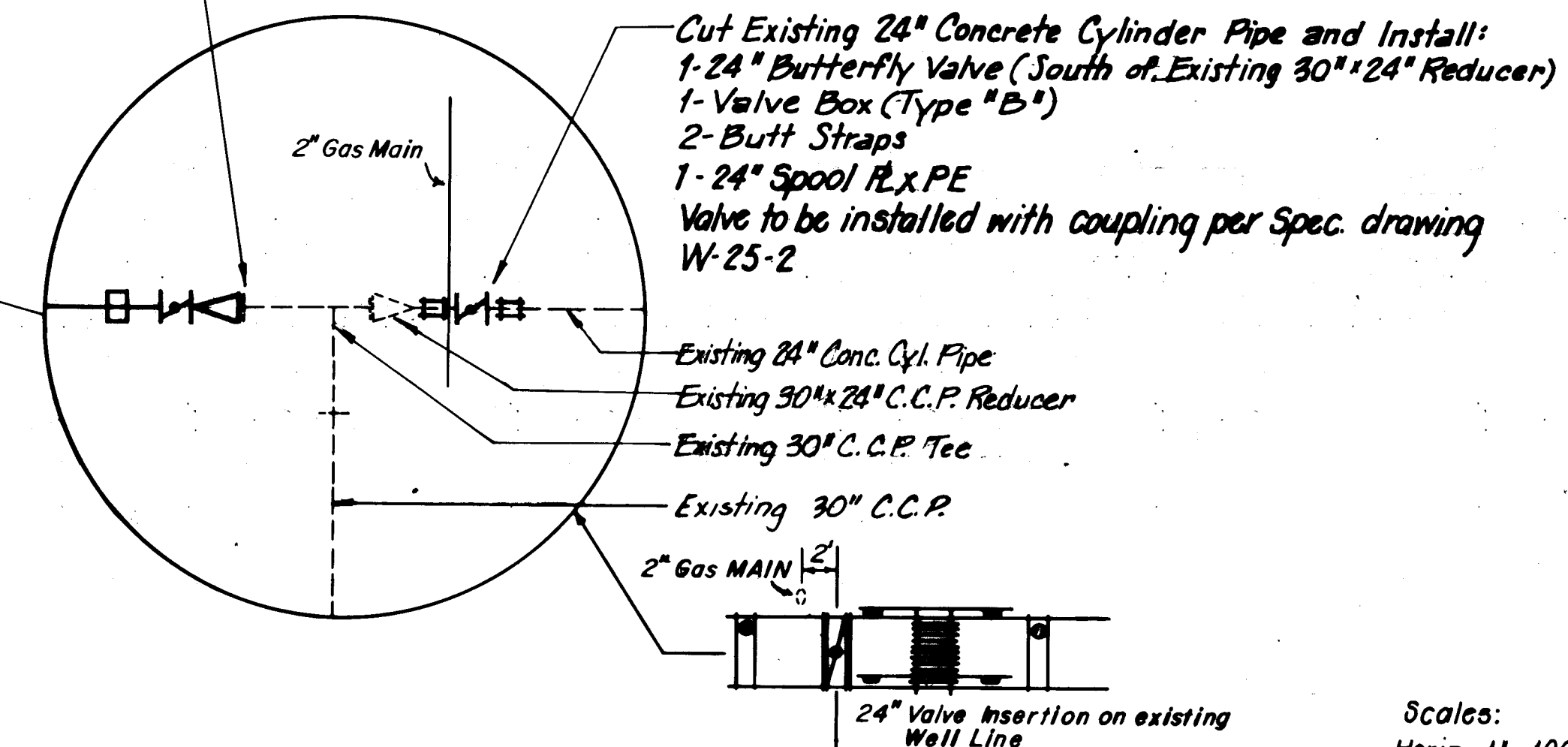


Protect Existing Section Corner Marker

Sta 33+94.46 Well C.L.
Remove Plug and Connect
to existing 30" Concrete Cylinder Pipe
Tee. Field verify exact location and
depth prior to fabrication of pipe
1- 24" Butterfly Valve
1- Valve Box (Type "B")
1- 30"x 24" Reducer
Valve to be installed with coupling per
Spec. drawing W-25-2

map is cutoff at top

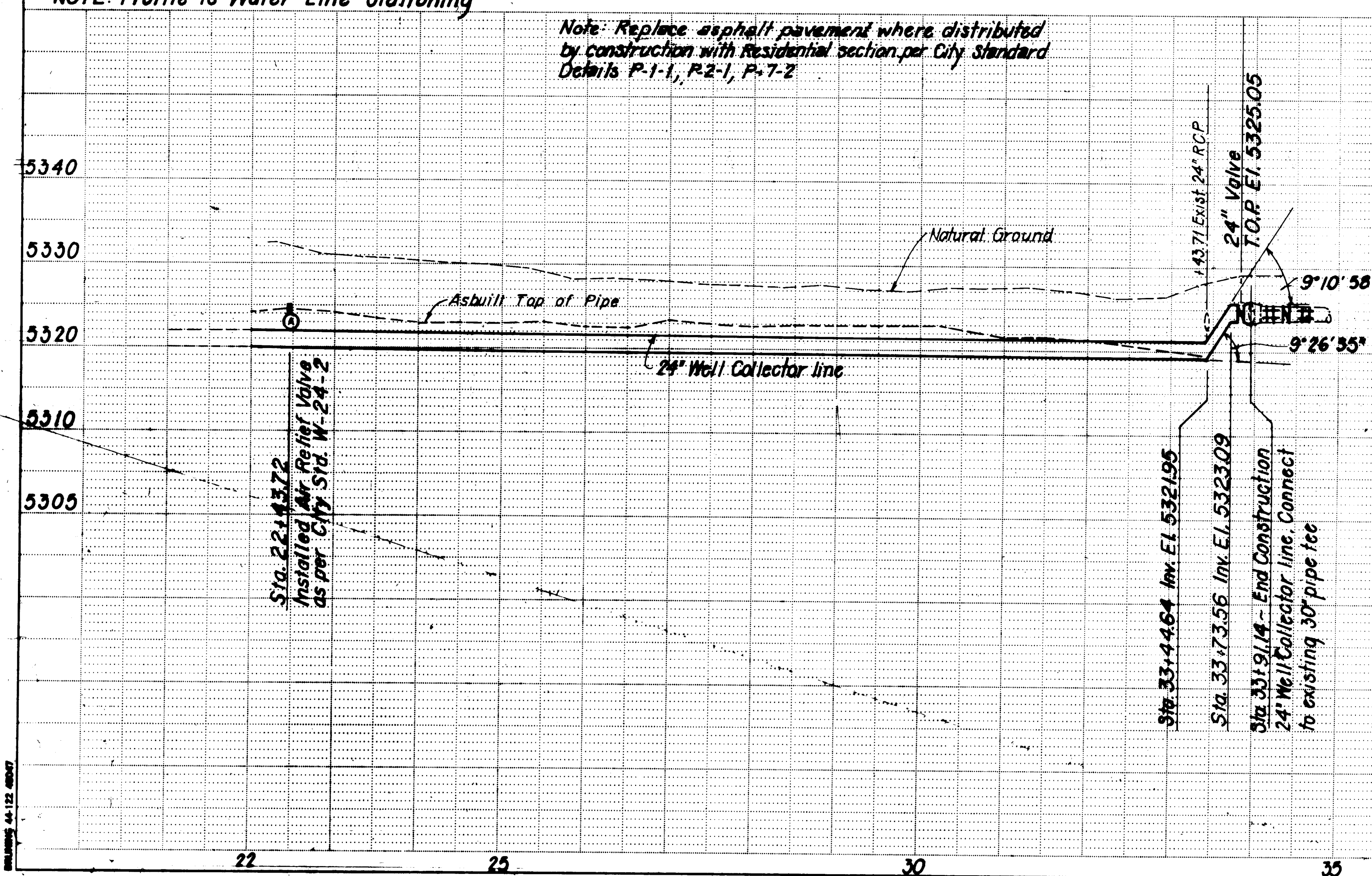
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BEST COPY AVAILABLE



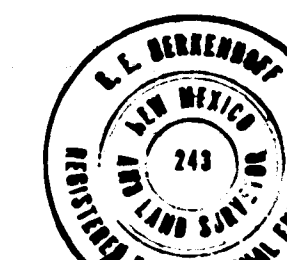
Scales:
Horiz 1" = 100'
Vert. 1" = 10'

NOTE: Profile is Water Line Stationing

Note: Replace asphalt pavement where distributed by construction with Residential section per City Standard Details P-1-1, P-2-1, P-7-2



PREPARED UNDER THE
DIRECTION OF



APPROVED FOR
CONSTRUCTION

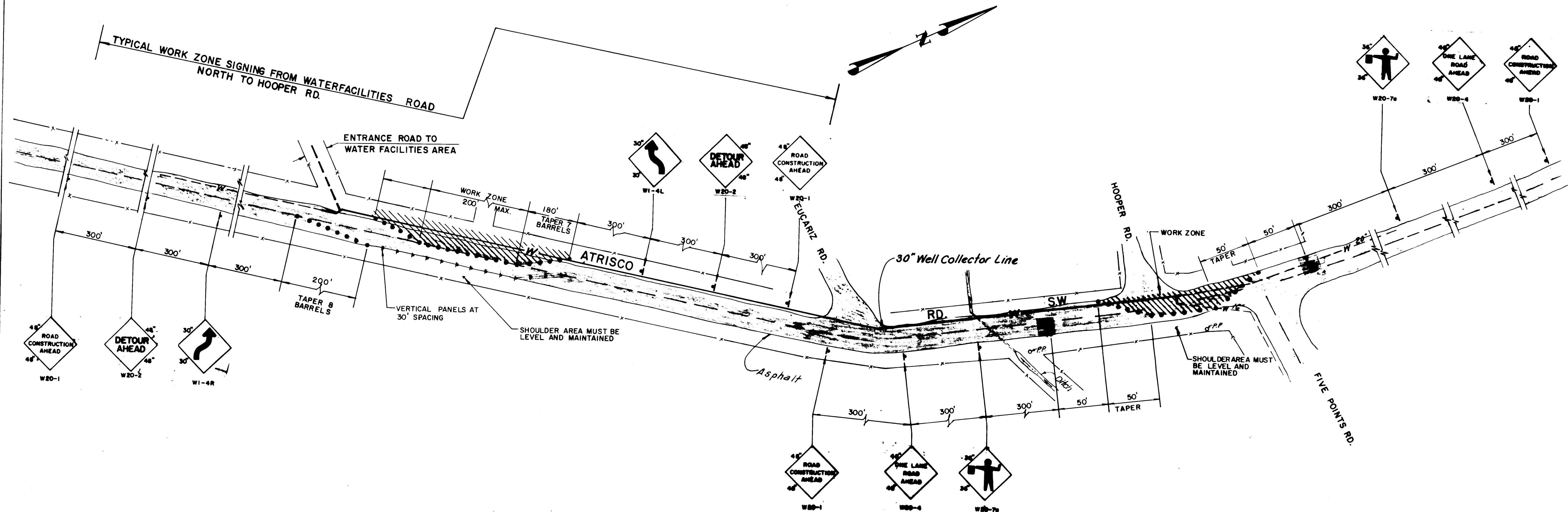
CITY ENGINEER	DATE
---------------	------

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO.5 AND VOLCANO CLIFFS NO.3 WELL LINES
COLLECTOR LINE, STA.22+00 TO STA.33+94.11
(VOLCANO CLIFFS NO.3)

VOLCANO CLIFFS M37					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO.	1996	SHEET	8	OF	10
-------------	------	-------	---	----	----



PLAN - ATRISCO RD.
SCALE: 1" = 50'

GENERAL NOTES FOR TRAFFIC CONTROL

- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH CHAPTER VI OF THE 1978 EDITION MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, WITH LATEST REVISIONS.
- IF ANY LANE CLOSURES ARE REQUIRED, OTHER THAN THOSE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PREPARE AND SUBMIT A DETAILED PLAN OF SUCH CLOSURES TO THE CITY TRAFFIC ENGINEER FOR APPROVAL AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF ANY PLANNED CLOSURES.
- BEFORE CONSTRUCTION BEGINS, ALL SIGNS MUST BE IN PLACE AS DIRECTED BY THE ENGINEER. THE BOTTOM OF CONSTRUCTION WARNING SIGNS SHALL BE SEVEN (7) FEET ABOVE GROUND LEVEL.
- ALL SIGNS, BARRICADES AND/OR BARRELS WILL BE REFLECTORIZED. BARRELS MAY CONTAIN SAND OR WATER BALLAST LIMITED TO 100 LBS. EACH.
- ALL SIGN LOCATIONS WILL BE SELECTED IN THE FIELD AND APPROVED BY THE PROJECT ENGINEER. DISTANCES MAY BE ADJUSTED FOR LOCAL CONDITIONS.
- ALL SIGNS WILL BE GROUND MOUNTED ON SINGLE OR DOUBLE POSTS. EXISTING POSTS MAY BE USED AT SOME LOCATIONS, WITH THE APPROVAL OF THE PROJECT ENGINEER. PORTABLE SIGN SUPPORTS ARE ACCEPTABLE AS AN ALTERNATE FOR SIGNS WHICH WILL BE IN PLACE LESS THAN ONE WEEK.
- ALL SIGNS WILL BE MOVED FORWARD AS THE CONSTRUCTION PROGRESSES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES AT ALL TIMES.
- WHEN BARRIERS ARE REQUIRED AFTER DARK, ALL ADVANCE WARNING SIGNS AND ALL BARRICADES SHALL BE EQUIPPED WITH FLASHING WARNING LIGHTS (TYPE A). ALL CHANNELIZATION DEVICES SHALL HAVE STEADY BURNING WARNING LIGHTS (TYPE C).
- FLAG LINE SHALL BE USED IN CONJUNCTION WITH BARRELS OR BARRICADES TO DELINEATE EXCAVATION AREAS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A MEANS OF CHANNELING PEDESTRIAN TRAFFIC SAFELY AROUND CONSTRUCTION AREAS.
- ALL EXISTING REGULATORY SIGNS THAT NEED TO BE REMOVED, RELOCATED OR REINSTALLED SHALL BE DONE BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
- ALL ADVANCE WARNING SIGNS NOT DIRECTLY APPLICABLE SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ONCOMING TRAFFIC.
- A MINIMUM WIDTH OF 11 FEET SHALL BE PROVIDED IN ALL TRAFFIC LANES.
- ALL ADVANCE WARNING SIGNS SHALL BE 48"x 48" MINIMUM.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP THE PUBLIC INFORMED THROUGH THE LOCAL NEWS MEDIA OF CONSTRUCTION OPERATIONS INVOLVING STREET OR LANE CLOSURES.
- EQUIPMENT AND MATERIALS ARE NOT TO BE STORED WITHIN THE STREET RIGHT-OF-WAY DURING NON-WORKING HOURS.
- EXCAVATIONS MUST BE PLATED OR PATCHED PRIOR TO OPENING TO TRAFFIC.
- BARRELS, BARRICADES AND/OR VERTICAL PANELS SHALL NOT BE INTERMIXED IN THE SAME SERVICE OF CHANNELIZATION.
- THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES IN GOOD CONDITION AT ALL TIMES.

SOUTH ATRISCO

- CONSTRUCTION SHALL BE LIMITED TO 200 FOOT SECTIONS.
- WORK ON A NEW SECTION OF ROADWAY MAY NOT START UNTIL THE PREVIOUS SECTION HAS BEEN BACKFILLED AND PATCHED.
- FROM 4 P.M. TO 9 A.M. TWO-WAY TRAFFIC SHALL BE MAINTAINED ON THE PAVED PORTION OF THE ROADWAY. A W20-1 "ROAD CONSTRUCTION AHEAD" SIGN SHALL REMAIN AT NIGHT.
- NORTH BOUND TRAFFIC ON ATRISCO MAY BE DETOURED ONTO THE SHOULDER AS REQUIRED BETWEEN 9 A.M. AND 4 P.M.
- TRAFFIC SHALL NOT BE ROUTED ON THE SHOULDER FOR MORE THAN 200 FEET.
- THE SHOULDER AREA USED AS A TRAFFIC LANE MUST BE LEVEL AND CONTINUALLY MAINTAINED.
- SEE DIAGRAM FOR BARRICADING.
- SHOULD CONSTRUCTION AND/OR STREET CONDITIONS REQUIRE THAT 2-WAY TRAFFIC BE ROUTED ON TO ONE LANE, A DETOUR PLAN WITH 2 FLAGMEN SHALL BE USED, AS PER DIAGRAM (SHEET 9).

NORTH ATRISCO

- ATRISCO, WEST OF 81ST STREET, AT LEAST ONE LANE MUST REMAIN OPEN ON THE GRAVEL ROAD FROM 9 A.M. TO 4 P.M. OR A GRADED LANE MUST BE PROVIDED.
- 4 P.M. TO 9 A.M. TWO-WAY TRAFFIC MUST BE MAINTAINED ON THE GRAVEL ROADWAY WITH A W20-1 "ROAD CONSTRUCTION AHEAD" WARNING SIGN 400 FEET IN ADVANCE OF CONSTRUCTION.
- 81ST SOUTH OF ATRISCO AT LEAST ONE LANE MUST BE PROVIDED ON THE PAVED PORTION OF THE ROADWAY. FROM 4 P.M. TO 9 A.M. TWO-WAY TRAFFIC MUST BE MAINTAINED ON THE PAVED PORTION OF THE ROADWAY WITH A W20-1 "ROAD CONSTRUCTION AHEAD" SIGN 400 FEET IN ADVANCE OF CONSTRUCTION.
- CONSTRUCTION SHALL BE LIMITED TO 500 FOOT SECTIONS.
- WORK ON A NEW SECTION OF ROADWAY MAY NOT START UNTIL THE PREVIOUS SECTION HAS BEEN BACKFILLED AND PATCHED WHERE APPLICABLE.
- SHOULD CONSTRUCTION REQUIRE THAT TWO-WAY TRAFFIC BE ROUTED ON TO ONE LANE, A DETOUR WITH 2 FLAGMEN SHALL BE USED AS PER DIAGRAM (SHEET 10).

26 19960986



Brian E. Delan
APPROVED FOR CONSTRUCTION
CITY ENGINEER DATE

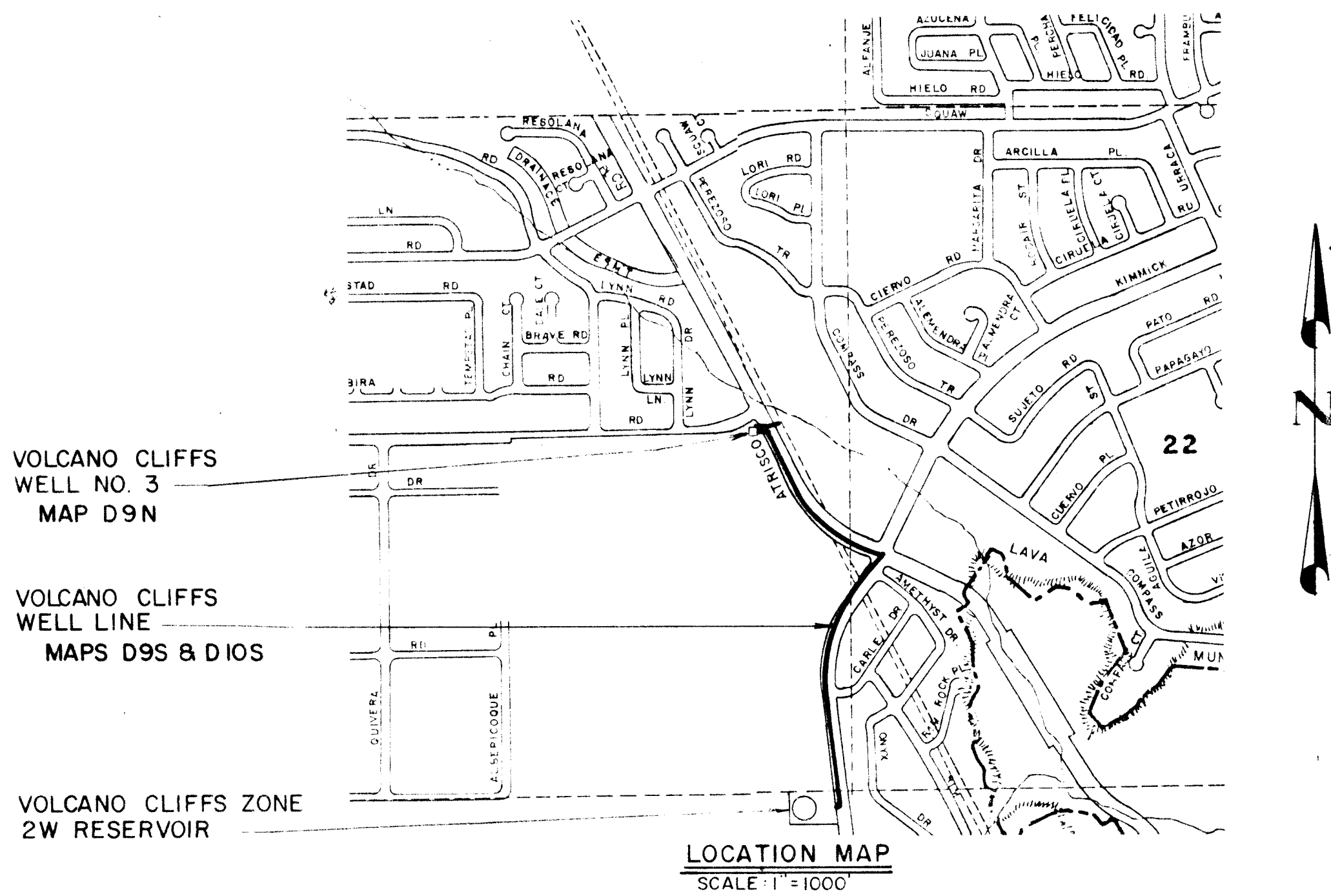
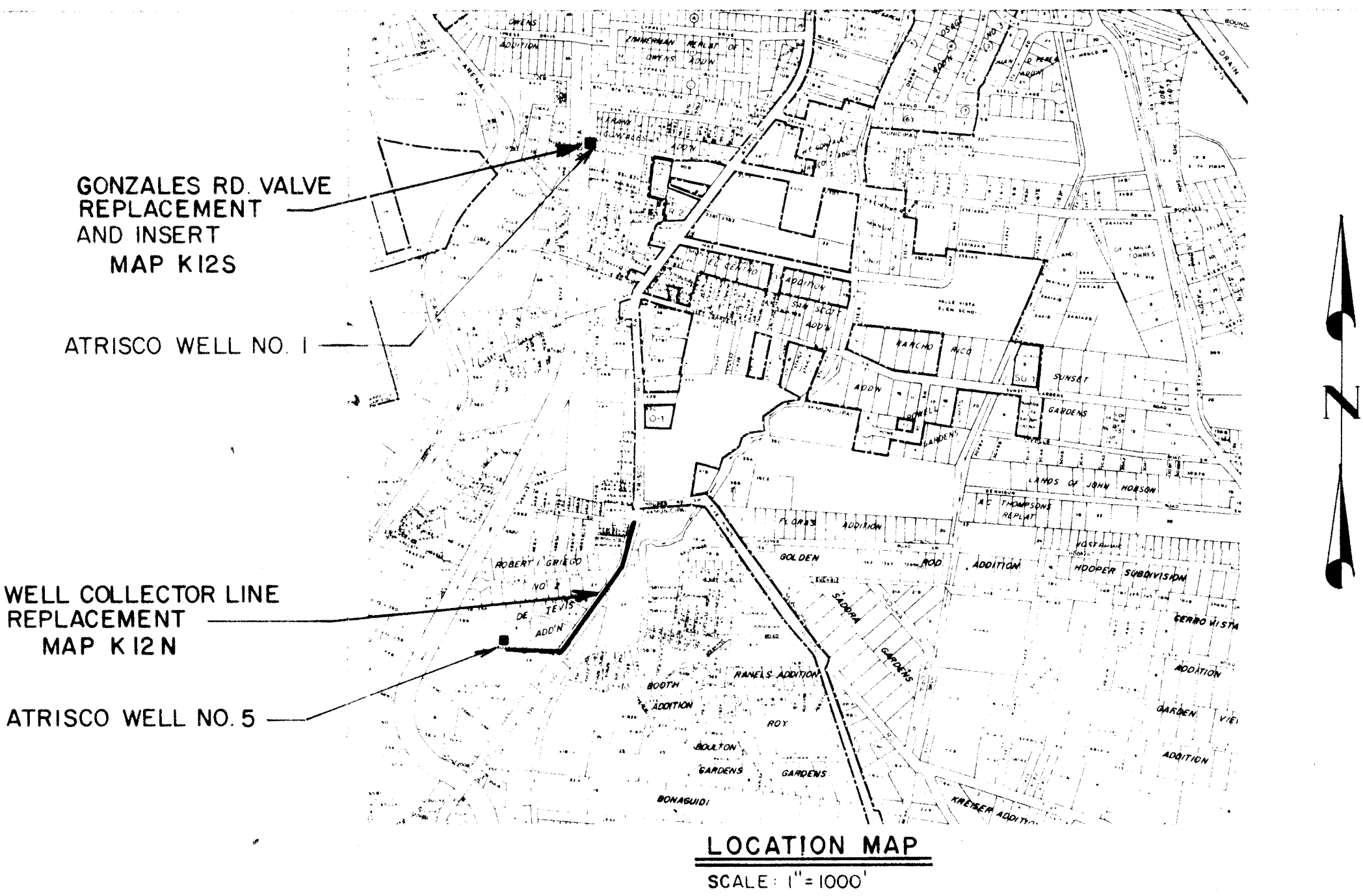
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NOS AND VOLCANO CLIFFS NO.3 WELL LINES TRAFFIC CONTROL PLAN (SOUTH ATRISCO)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		
DRAWING NO. 1996			SHEET 9 OF 10		

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		REFERENCES	
CONTRACTOR	INTEREST	FIELD NOTES	DATE	MAP NO. L 12 N	EST. NO.	W.O. NO.	BY
WORK BY	DATE	NO.	DATE				
INSPECTORS	DATE						
ACCEPTANCE	DATE						
VERIFICATION	DATE						
COMMISSIONED BY	DATE						
COMMISSIONED BY	DATE						
RECORDED BY	DATE						
NO.							

ATRISCO NO.5 AND VOLCANO CLIFFS NO. 3 WELL LINES

INDEX OF DRAWINGS

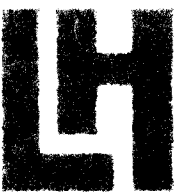
SHEET NO.	TITLE
1 OF 10	TITLE SHEET, INDEX OF DRAWINGS AND LOCATION MAPS (ATRISCO NO.5)
2 OF 10	LAYOUT PLAN
3 OF 10	COLLECTOR LINE REPLACEMENT - STA 0+00 TO STA 8+48.00 ATRISCO WELL NO.1 VALVE LOCATIONS
4 OF 10	FLOW METER PITS, CHLORINE INJECTION MANHOLE, RESERVOIR PENETRATION AND CLEANOUT DETAILS (VOLCANO CLIFFS NO.3)
5 OF 10	SITE PIPING LAYOUT PLAN, DRY WELL AND METER PIT DETAILS
6 OF 10	WASH LINE PLAN AND PROFILE
7 OF 10	COLLECTOR LINE - STA. 0+00 TO STA. 22+00 PLAN AND PROFILE
8 OF 10	COLLECTOR LINE - STA. 22+00 TO STA. 33+94.11 PLAN AND PROFILE
9 OF 10	TRAFFIC CONTROL PLAN (SOUTH ATRISCO)
10 OF 10	TRAFFIC CONTROL PLAN (NORTH ATRISCO)



26 19960186

Brian R. Lee
1/86

MARCH 1984



RIGID JOINT SCHEDULE		
Pipe Diameter	Station to Station	Welded Joint 1/4" Weld Length
36"	0+01.35	0+50
24"	0+01.35	0+50
36"	3+70	4+47
20"	4+47	4+87
36"	4+87	5+23

Welds to be 4" segments evenly spaced around the joint circumference

DATE	INTEREST	DATE	INTEREST	DATE	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

DATE	INTEREST	DATE	INTEREST	DATE	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

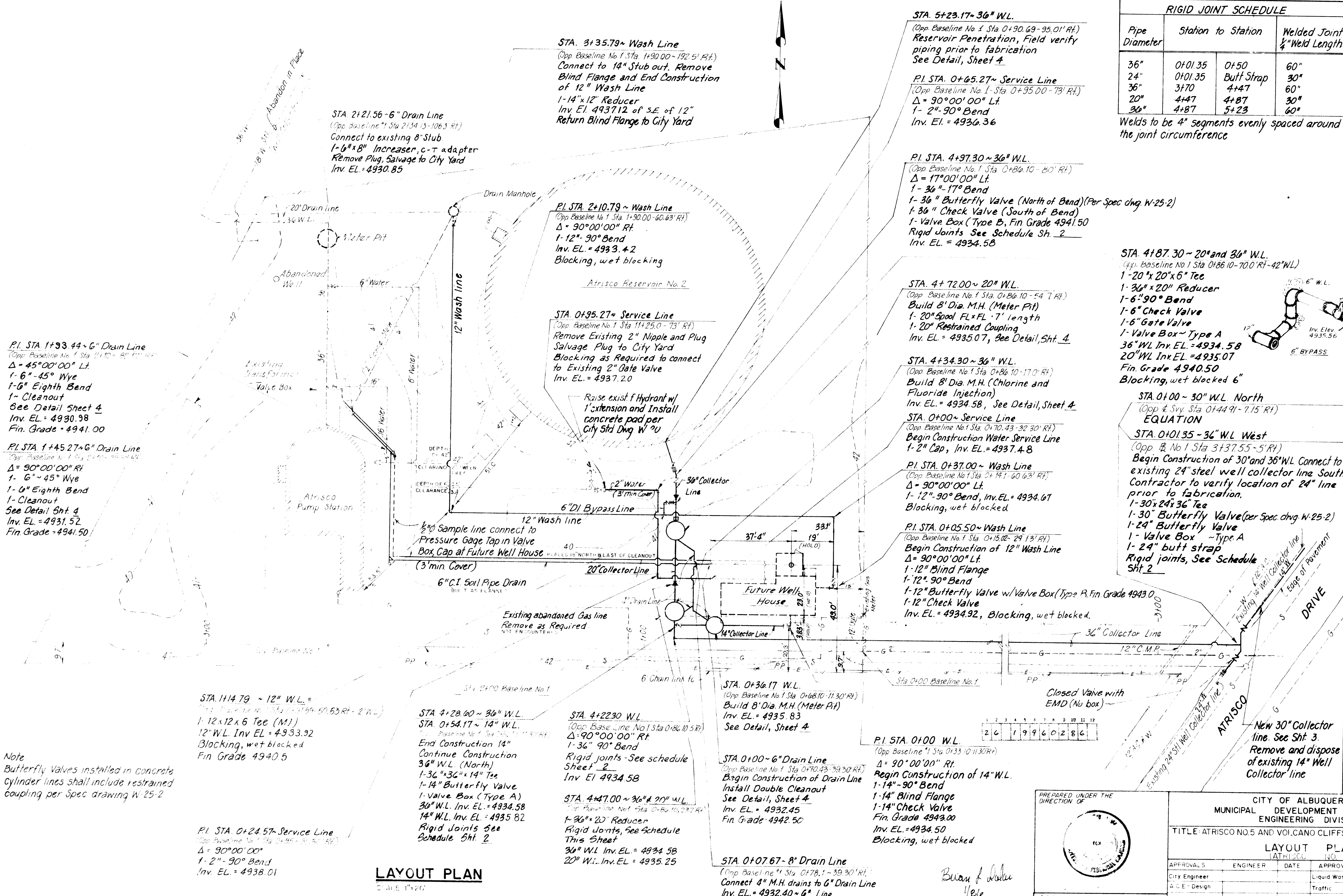
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12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

DATE	INTEREST	DATE	INTEREST	DATE	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

DATE	INTEREST	DATE	INTEREST	DATE	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

DATE	INTEREST	DATE	INTEREST	DATE	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
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12/85	INTEREST	12/85	INTEREST	12/85	INTEREST

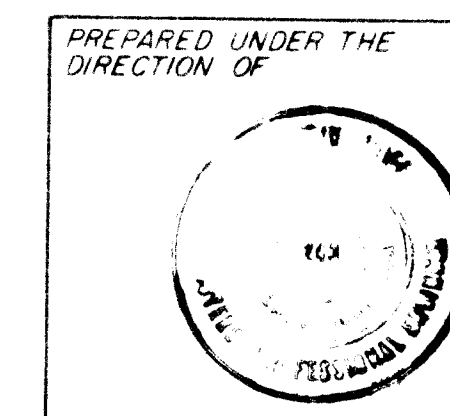
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12/85	INTEREST	12/85	INTEREST	12/85	INTEREST
12/85	INTEREST	12/85	INTEREST	12/85	INTEREST



Note
Butterfly Valves installed in concrete cylinder lines shall include restrained coupling per Spec drawing W-25-2

LAYOUT PLAN

ALL CONDUIT INSTALLED AS PER STAKED LOCATION, AND AS PER PLANS EXCEPT WHERE NOTED.



APPROVED FOR CONSTRUCTION

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES					
LAYOUT PLAN (ATRISCO NO. 5)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO.	1996		SHEET	2	OF 10

RIGID JOINT SCHEDULE			
Pipe Diameter	Station to Station		Welded Joint 1/4" Weld Length
30"	0+00	0+45	40"
30"	5+20	5+70	16"
30"	8+00	8+48	40"
16"	8+67.09	A11	12"

Welds to be 4" segments evenly spaced around the joint circumference.

STA-8+67 W.L.

Opp & Svy Sta. 8+84 ± ~ 8' Rt.

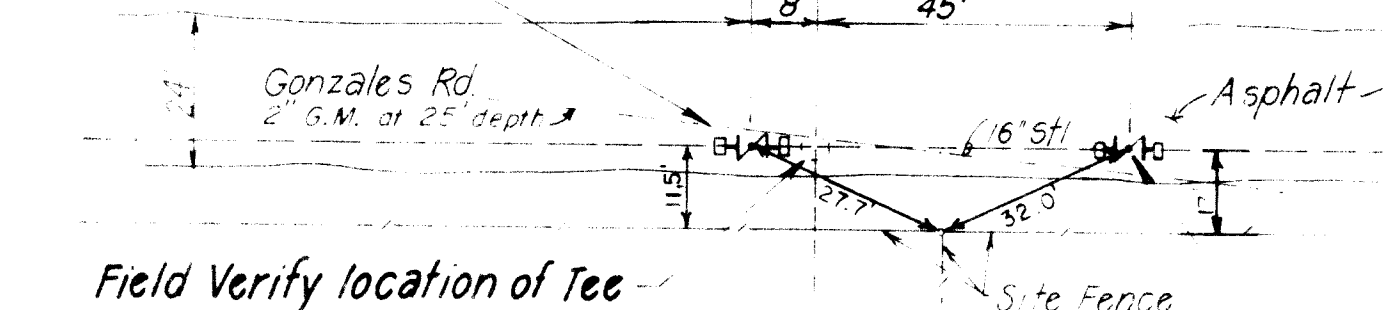
End Construction of new 30" Well Collector line. Connect to existing 20" C.I. line (North) and 16" Stl. line (East). Abandon existing 18" Stl. line (West). Remove and dispose existing 14" Stl. line (South). Remove and dispose existing well lines as required to make connection. Contractor to verify location of existing lines prior to fabrication.

- 1 - 30x20x16 Tee
- 1 - 20" Butterfly Valve
- 1 - 16" Butterfly Valve
- 2 - Valve Boxes - Type A
- 1 - 16" Steel Bend Angle as measured in field
- 1 - 20" Coupling
- 1 - 16" Butt Strap
- 1 - 18" Cap
- Spools as required
- Rigid Jts. - See Schedule This Sheet
- E.M.D.

Install new 16" Butterfly Valve in existing 16" Stl. Well Collector.

- 1 - 16" Butterfly Valve FL x FL w/ Valve Box (Type A)
- 2 - 16" Stl. Spools FL x PE (1/4" Thick Wall - 2' long)
- 2 - 16" Couplings

Coat pipe & couplings with Coal Tar enamel. Remove & dispose of A.C. pavement as required. Replace pavement with Residential Section.



Field Verify location of Tee -

14" WL to Atrisco Well No. 1

Replace existing valve with new 16" Butterfly Valve and return existing valve to City.

- 1 - 16" Butterfly Valve FL x FL w/ Valve Box (Type A)
- 2 - 16" Stl. Spools FL x PE (1/4" Thk. Wall, 2' long)
- 2 - 16" Couplings

Coat pipe and couplings with Coal Tar Enamel. Line depth at insertion 3.5' E.M.D.

ATRISCO WELL NO. 1

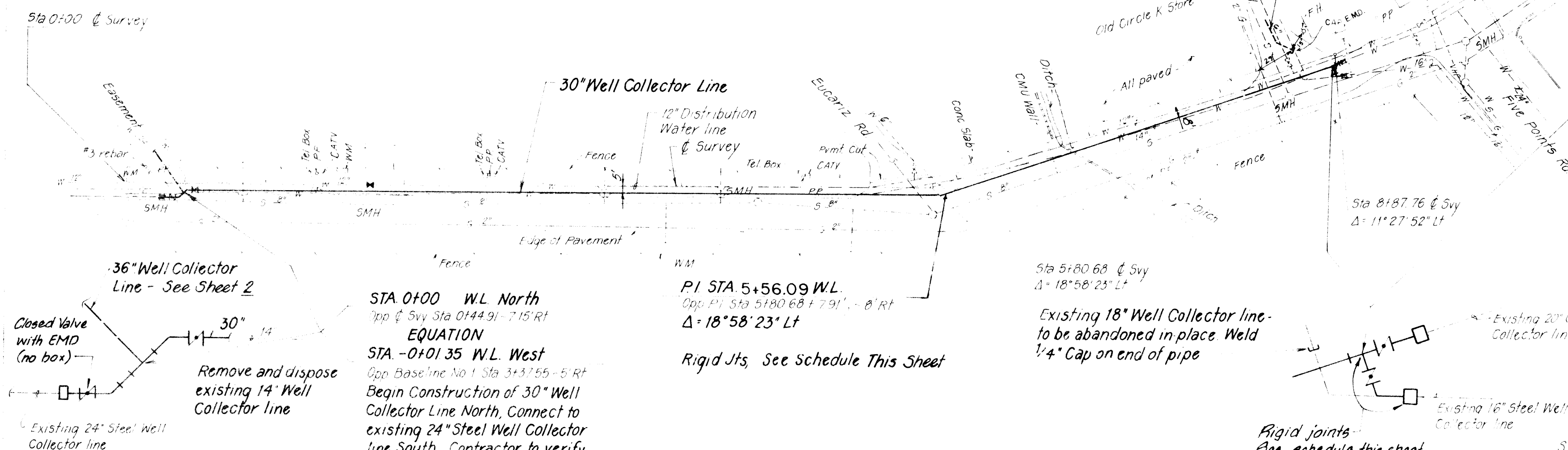
Scale 1" = 30'

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES COLLECTOR LINE STA. 0+00 TO STA. 8+48* AND ATRISCO WELL NO. 1 VALVE LOCATIONS	
APPROVED FOR CONSTRUCTION	DATE
DRAWING NO. 1996	SHEET 3 OF 10

Existing 14" C.I. Well Collector Line to be replaced with new 30" Line. Remove & dispose 14" line except where new line diverges from existing alignment; there, abandon existing 14" pipe in place.

Remove and dispose of A.C. pavement as required. Replace pavement with Arterial Section as Per City Standard Drawings P.3-2, P.4 & P.7-2.

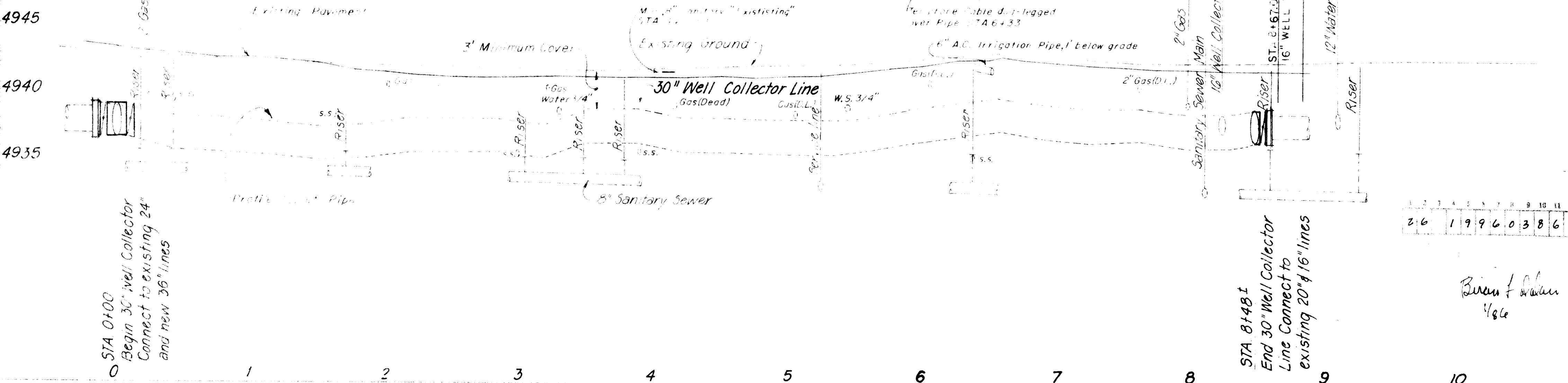
Deflect joints of pipe as necessary to align with existing 20" line. Maximum joint deflection shall not exceed that recommended by pipe manufacturer.



ATRISCO RD. SW

NOTE: Profile Stationing is Waterline Stationing

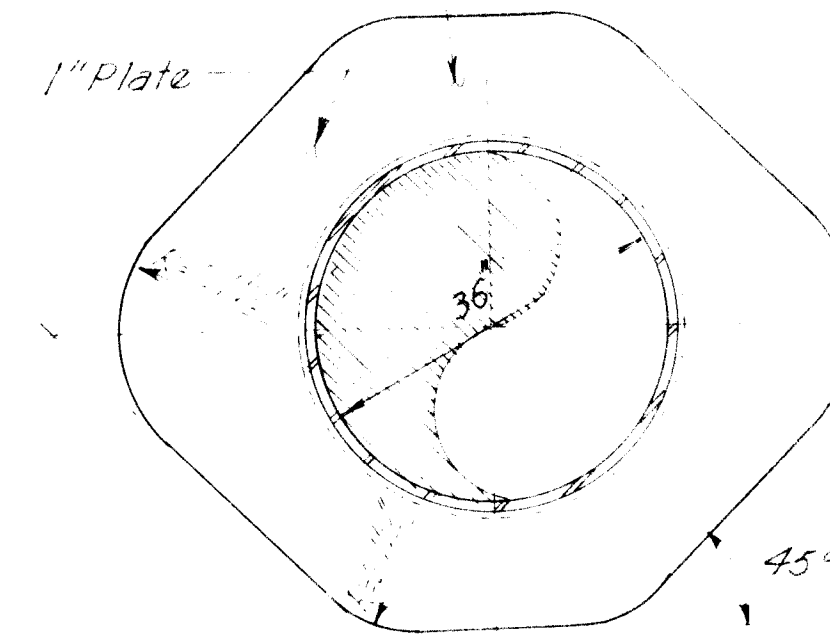
- STA 0+00 W.L. North
Opp & Svy Sta 0+44.91 ~ 7.15' Rt.
EQUATION
STA -0+01.35 W.L. West
Opp Baseline No 1 Sta 3+37.55 ~ 5' Rt.
Begin Construction of 30" Well Collector Line North. Connect to existing 24" Steel Well Collector line South. Contractor to verify location of 24" line prior to fabrication
- 1 - 30x24x36 Tee
 - 1 - 30" Butterfly Valve
 - 1 - 24" Butterfly Valve
 - 1 - Valve Box - Type A
 - 1 - 24" Butt Strap
- Rigid Jts. See Schedule This Sheet
E.M.D. (4)



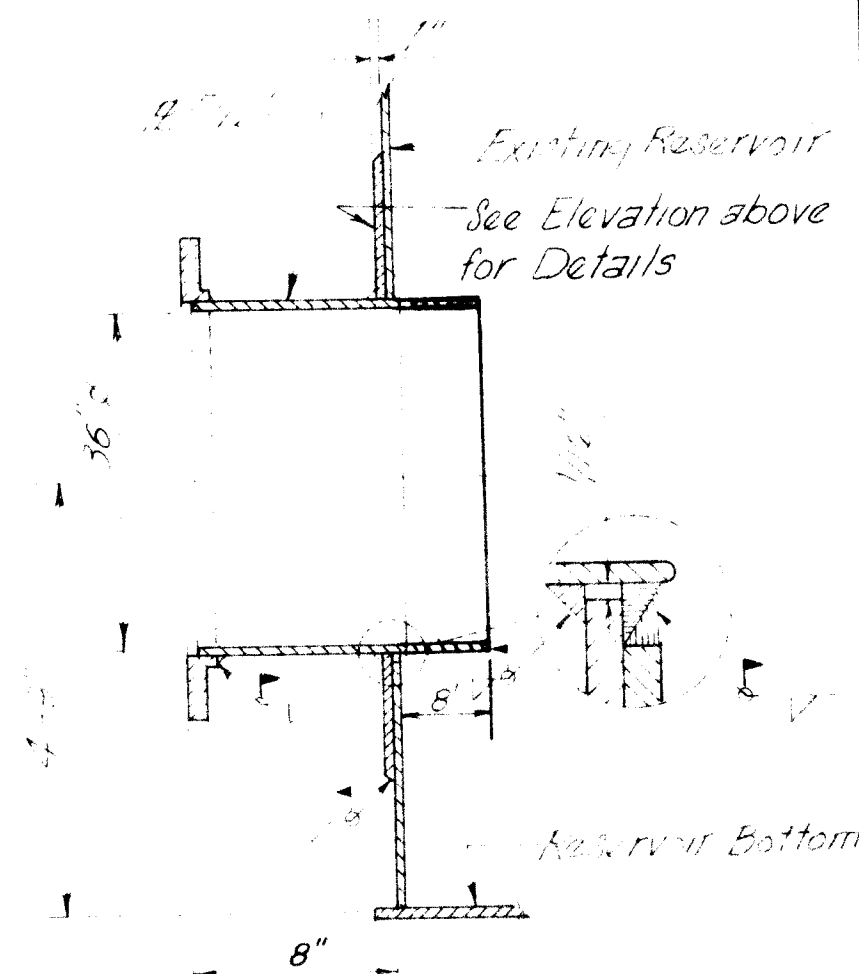
2 6 1 9 9 6 0 3 8 6

Bureau of Public Works
1/8/6

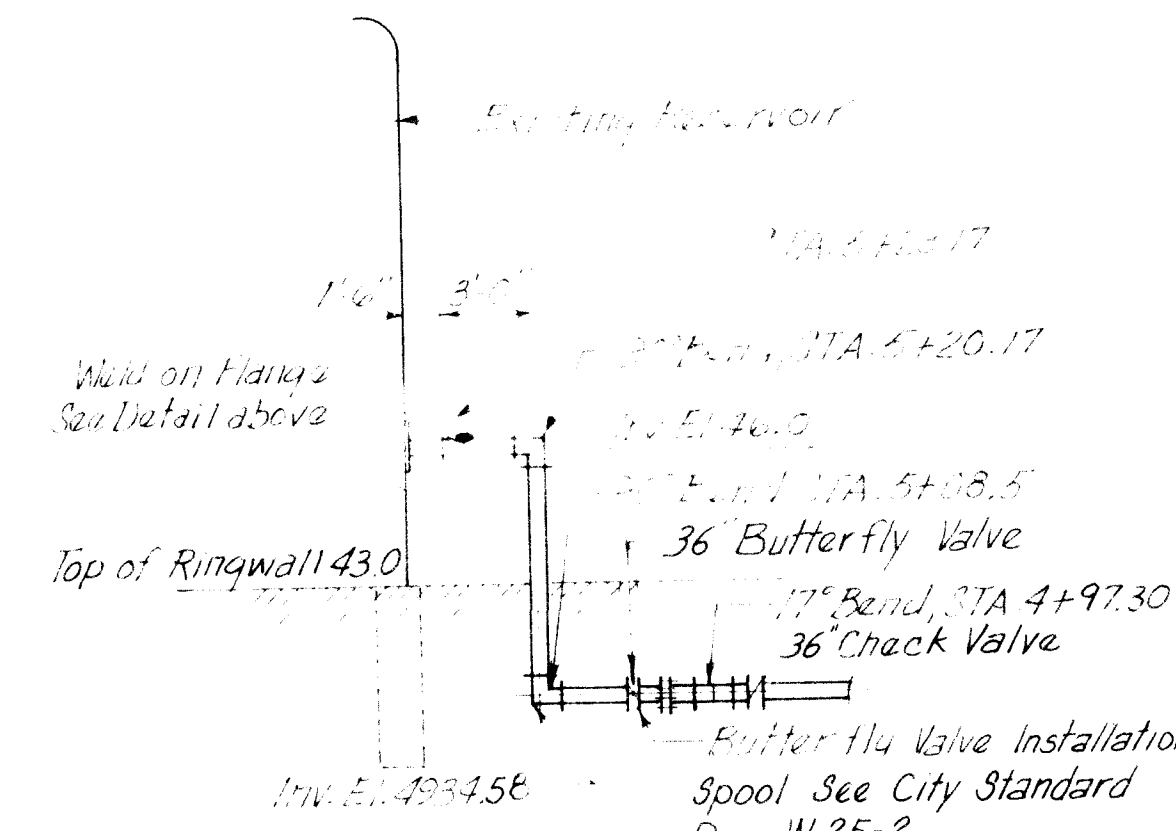
Band Reinforcing Plate to 64" Radius to match existing shell.



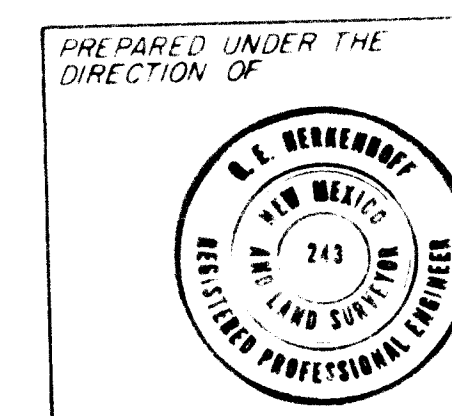
SECTION-ELEVATION



SECTION



RESERVOIR PENETRATION DETAIL
NOT TO SCALE



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

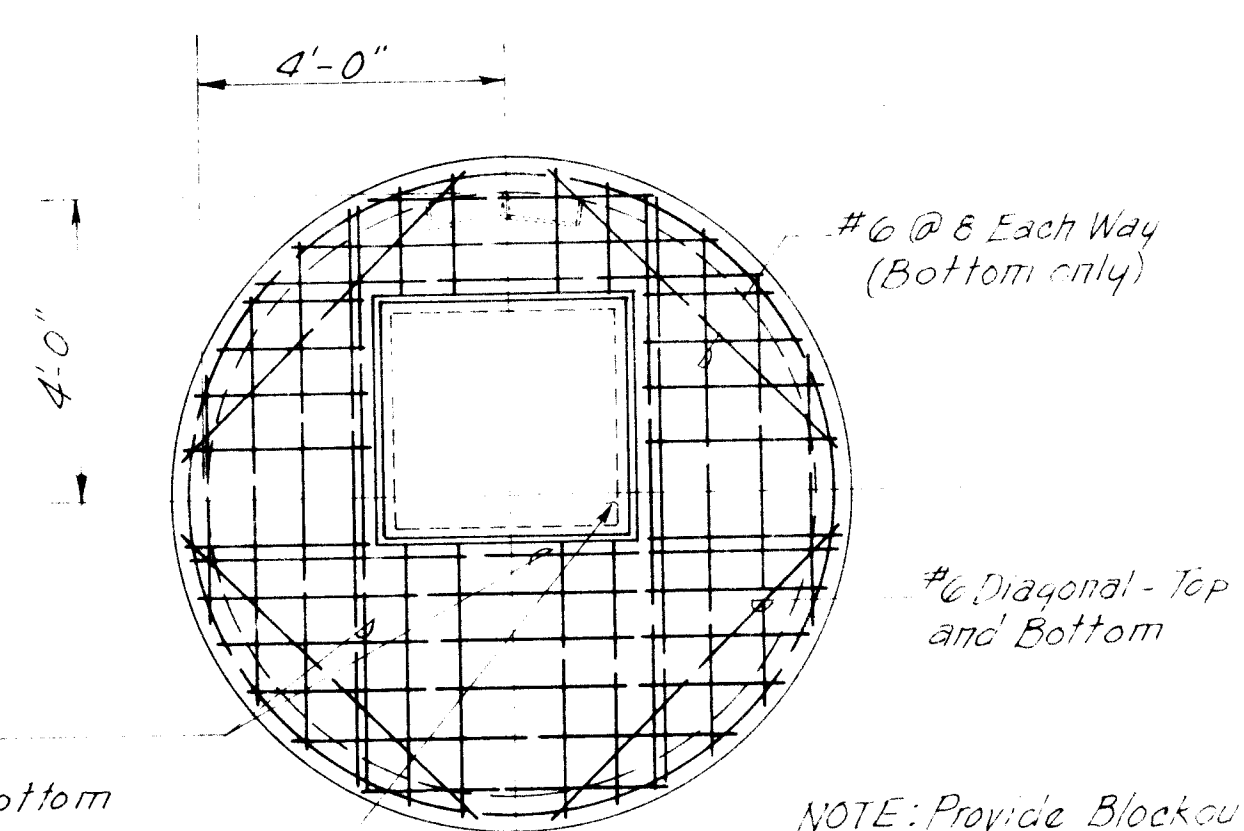
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES
FLOW METER PITS, CHLORINE INJECTION MANHOLE
RESERVOIR PENETRATION AND CLEANOUT DETAILS
(ATRISCO NO. 5)

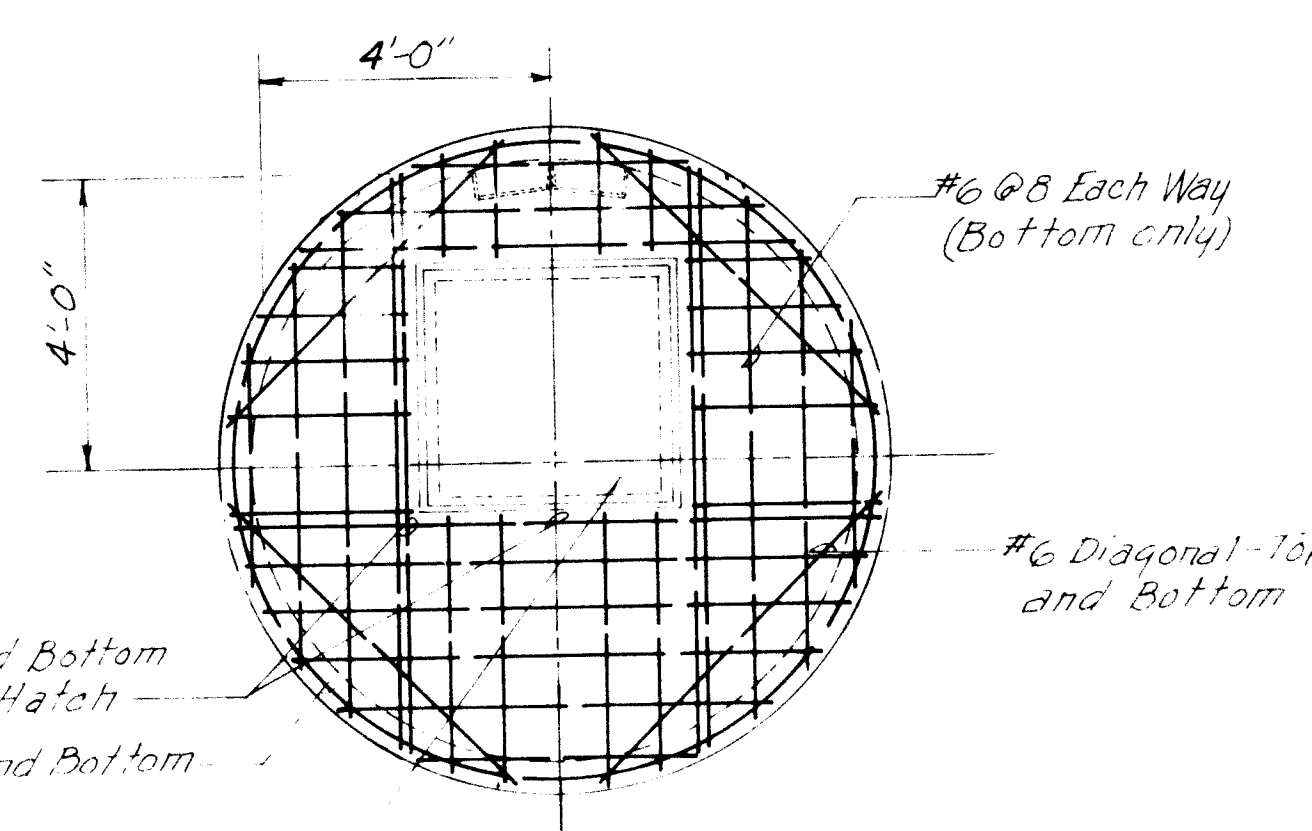
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		

DRAWING NO. 1996

SHEET 4 OF 10



COVER REINFORCING

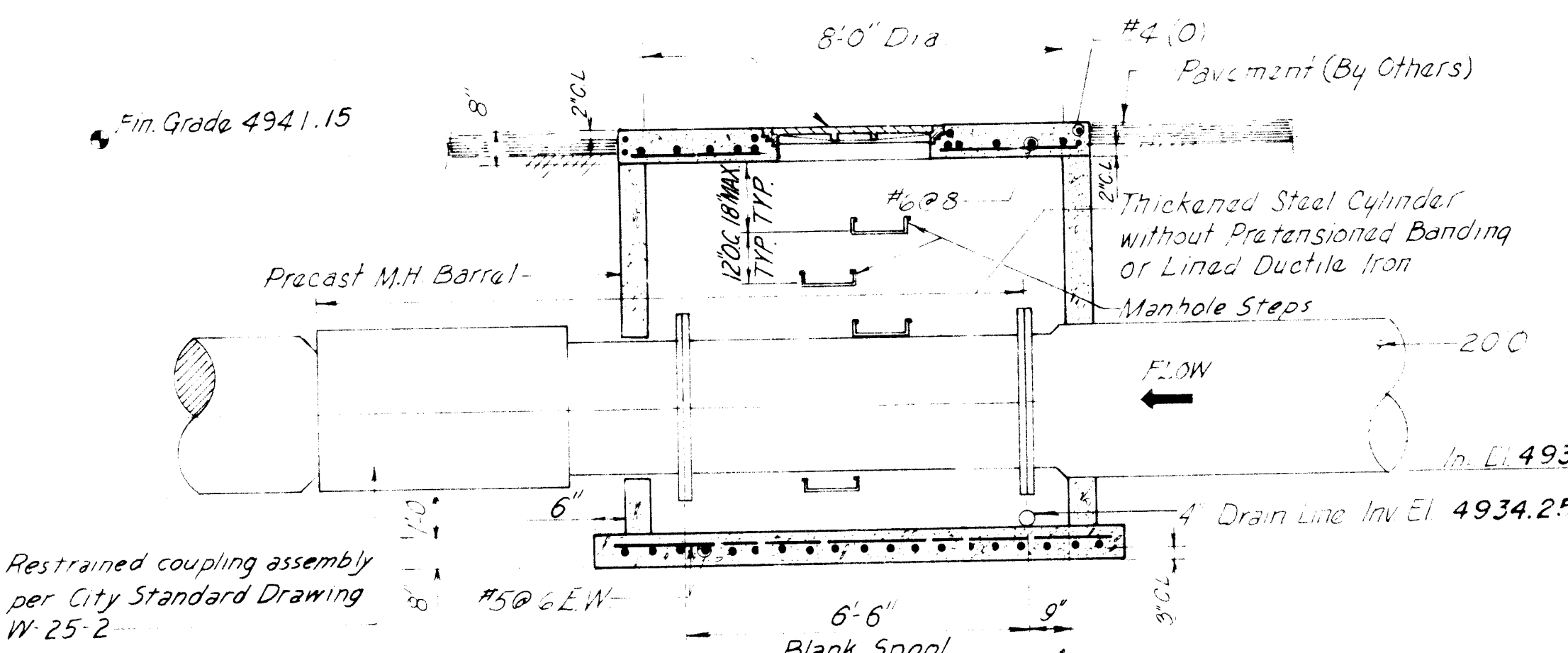


COVER REINFORCING

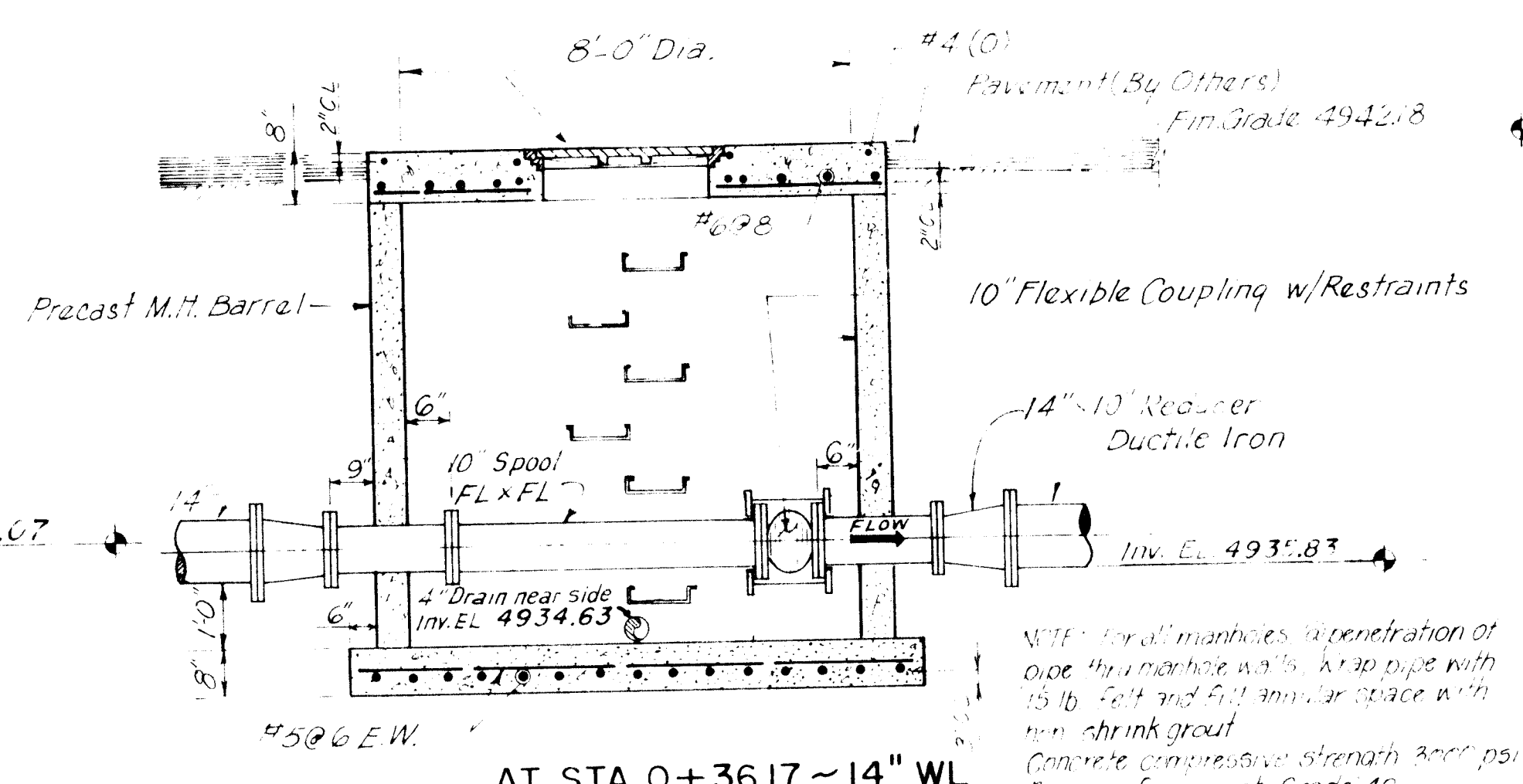
Manhole Frame and Lid
Neenah R-6662 RH
or equal

NOTE: Provide Blockout
in all Precast Manhole Tops
for Lifting Lugs.

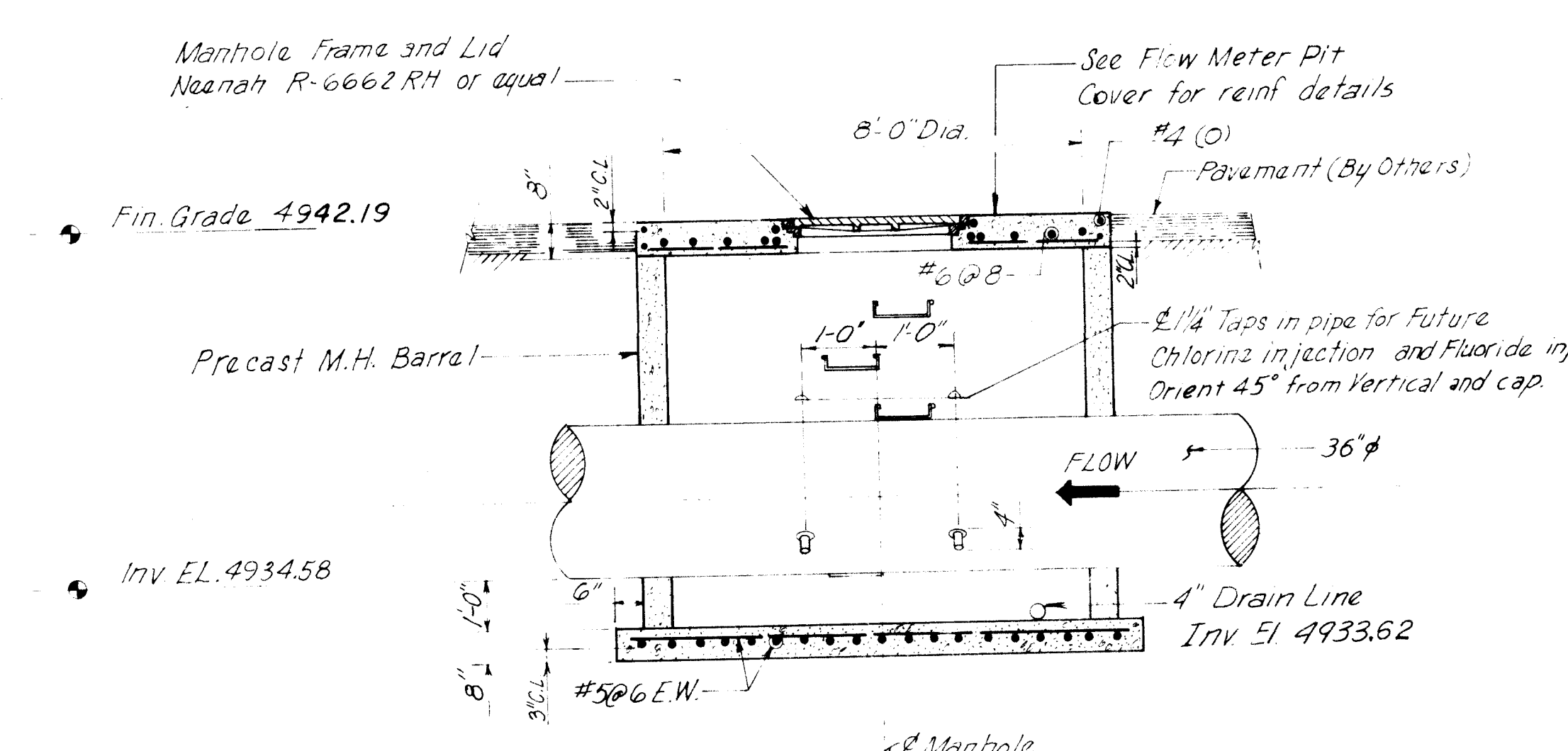
Manhole Frame and Lid
Neenah R-6662 RH
or equal



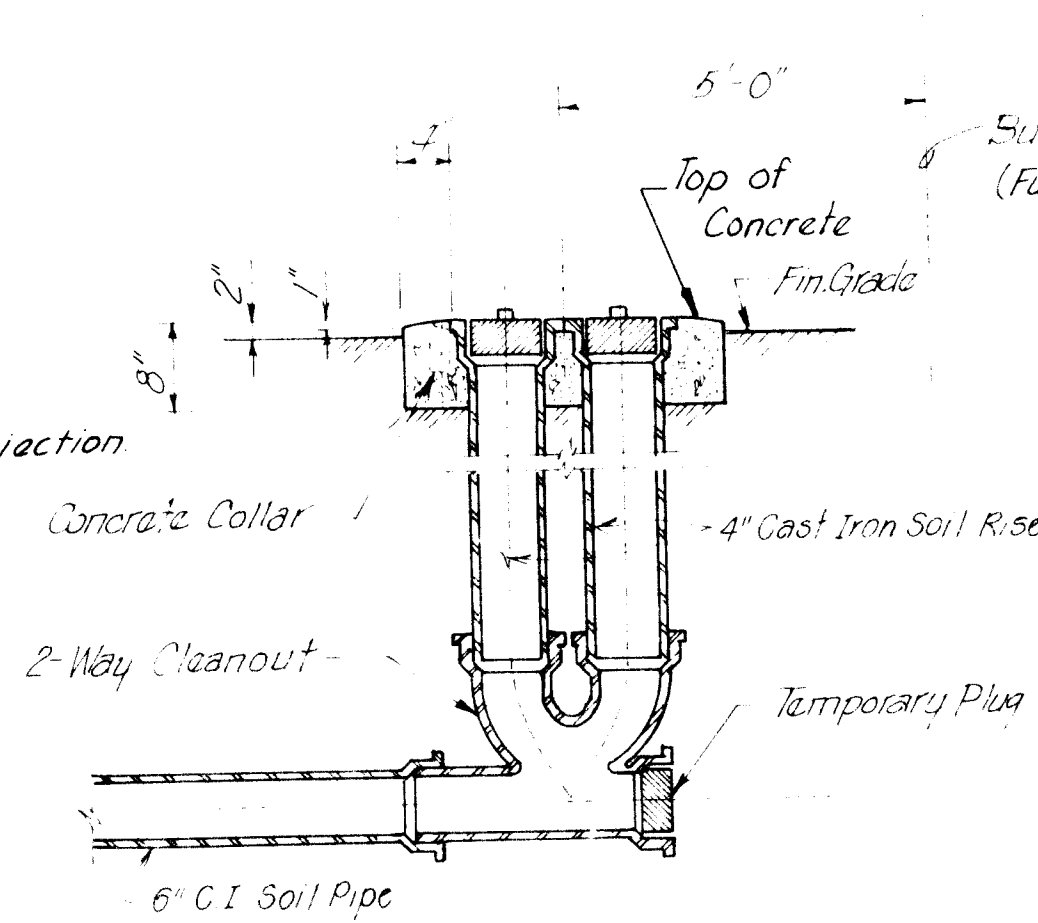
VENTURI FLOW METER PIT
NOT TO SCALE



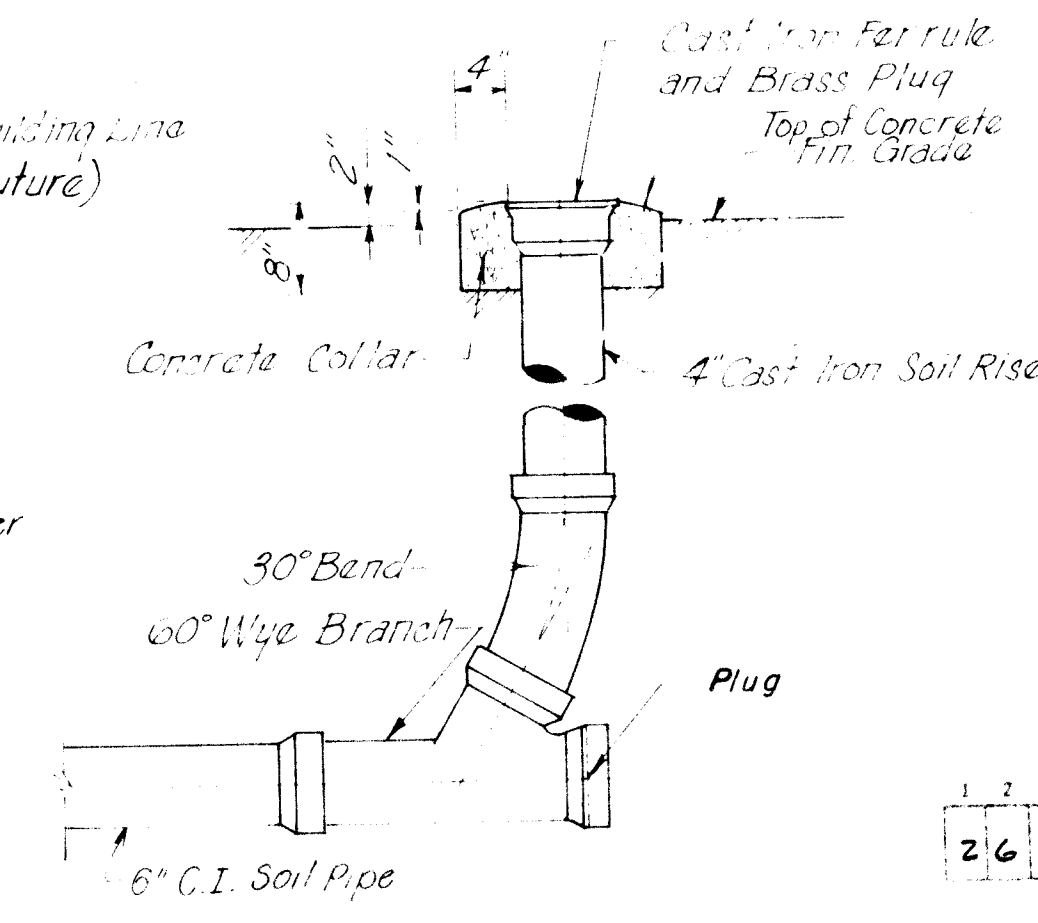
FLOW METER PIT
SCALE: 3/8" = 1'-0"



FLUORIDE AND CHLORINE INJECTION MANHOLE
NOT TO SCALE

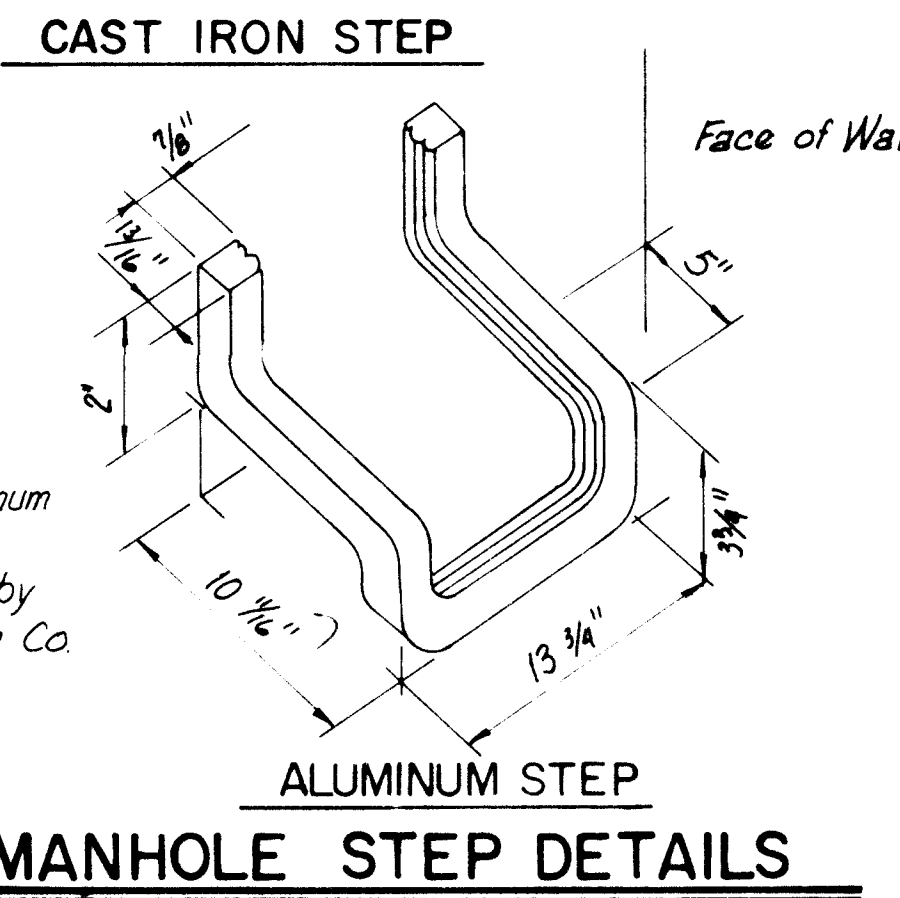
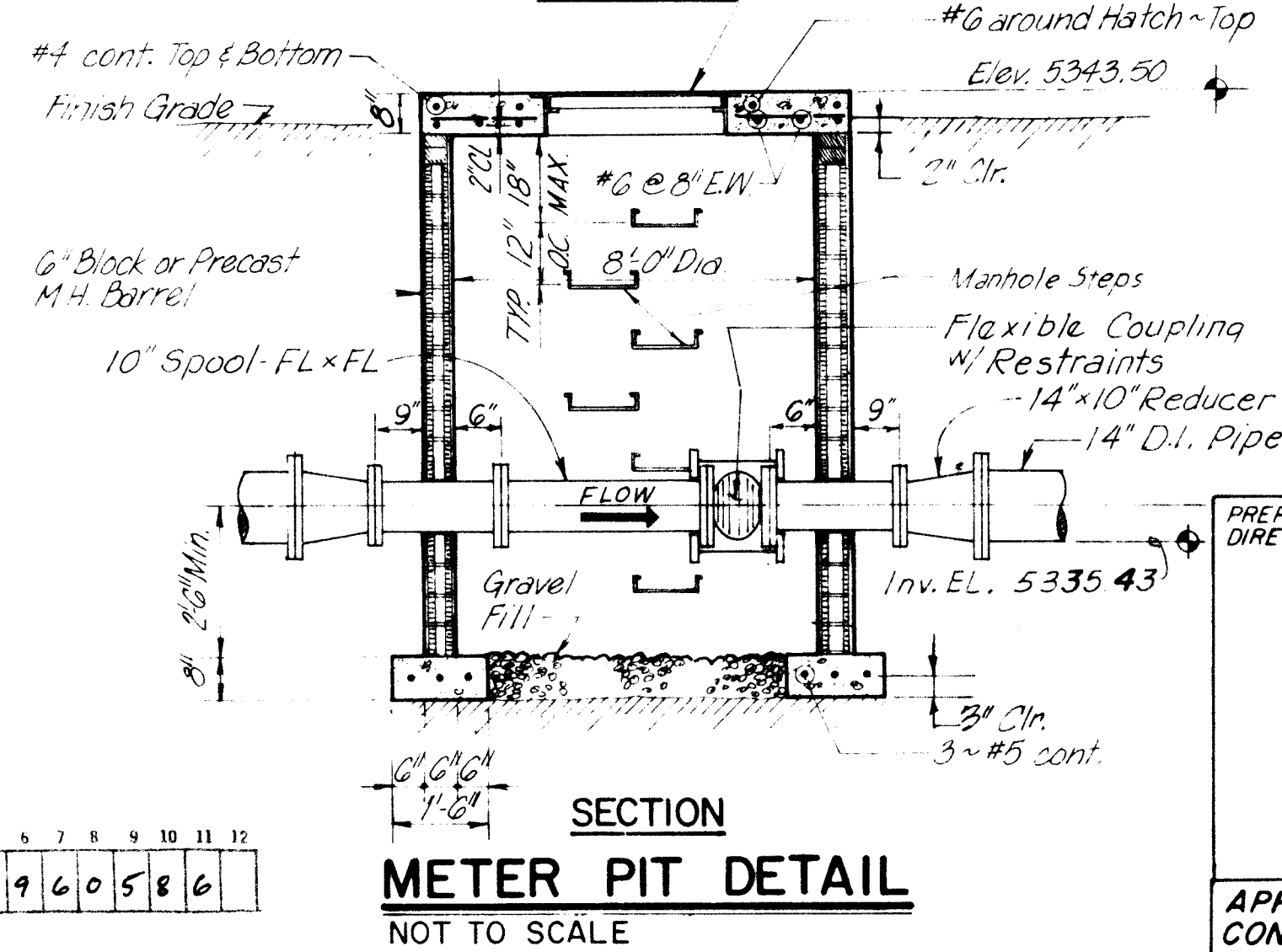
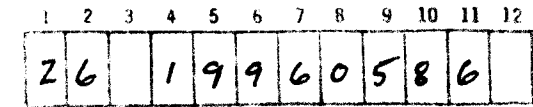


DOUBLE CLEANOUT DETAIL
NOT TO SCALE



CLEANOUT DETAIL
NOT TO SCALE

BRUING 44-122-9547



BENCH MARKS

Albuquerque City Surveyors Bench Mark B-210₂
at 40' of Nail in the East Pole of Pylon #236
Elev 5331.91

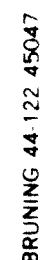
[illegible][illegible]

NO.		DATE	REMARKS	BY
<i>REVISED</i>				
<i>DESIGN</i>				
DESIGNED BY		K.W.W.	DATE	SEPT. 1983
DRAWN BY		P.A.P.	DATE	SEPT. 1983
CHECKED BY			DATE	

RIQUE
 DEPARTMENT
 ISON
 S NO. 3 WELL LINES
 UT PLAN
 PIT DETAILS
 NO. 3)
 VALS
 ENGINEER
 DATE
 aste
 SHEET 5 OF 10

ALL CONDUIT INSTALLED AS PER STAKED LOCATION, UNLESS OTHERWISE NOTED.

Brian J. Dalton
486



- Welds to be 4" segments evenly spaced around the joint circumference

NOTE:
Deflect Joints as required to maintain alignment of collector line thru curve. Max. deflection per joint shall not exceed that recommended by Pipe manufacturer.

Note: Replace gravel and asphalt surfacing where disturbed by Construction. Replace asphalt pavement with Residential section per City Std. Dwg.s P-1-1, P-2-1 and P-7-2. Replace gravel with like material and thickness.

Horiz: 1" = 100'
Vert: 1" = 10'

PREPARED UNDER THE
DIRECTION OF

U. S. BUREAU OF
MINT
243
AND LAND SURVEY
REGISTERED PROFESSIONAL LAND SURVEYOR

APPROVED FOR
CONSTRUCTION

TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES
COLLECTOR LINE, STA. 0+00 TO STA. 22+00
(VOLCANO CLIFFS NO. 3)

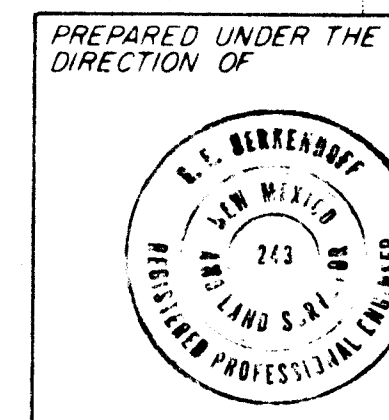
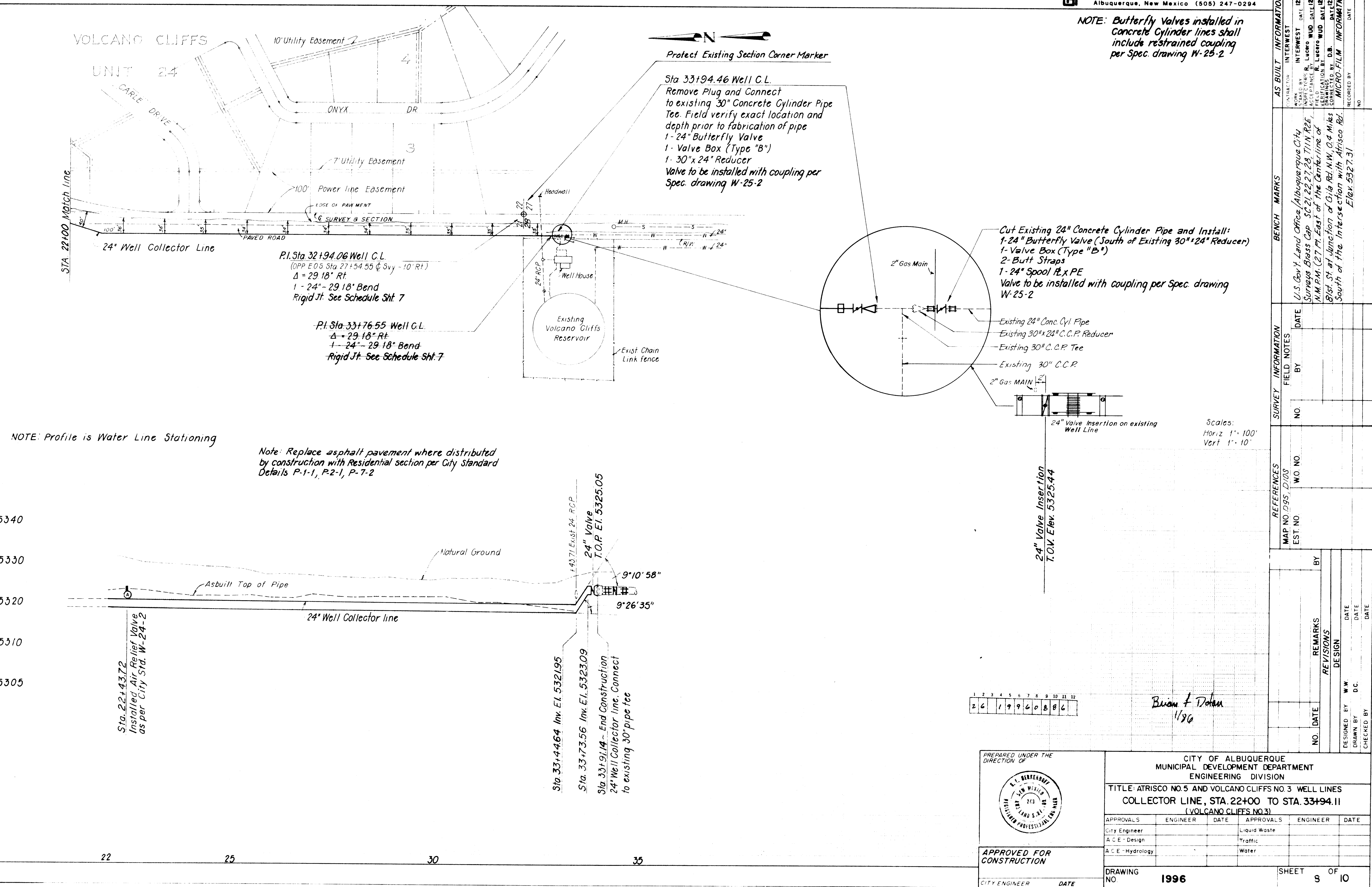
10-10-1997					
APPROVALS		ENGINEER	DATE	APPROVALS	
				ENGINEER	DATE
City Engineer				Liquid Waste	
A C E - Design				Traffic	
A C E - Hydrology				Water	

DRAWING NO.	1996	SHEET	7	OF	10
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DEPARTMENT		
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ALL PIPING & APPURTENANCES PLACED AS PER STAKED LOCATION UNLESS OTHERWISE NOTED.

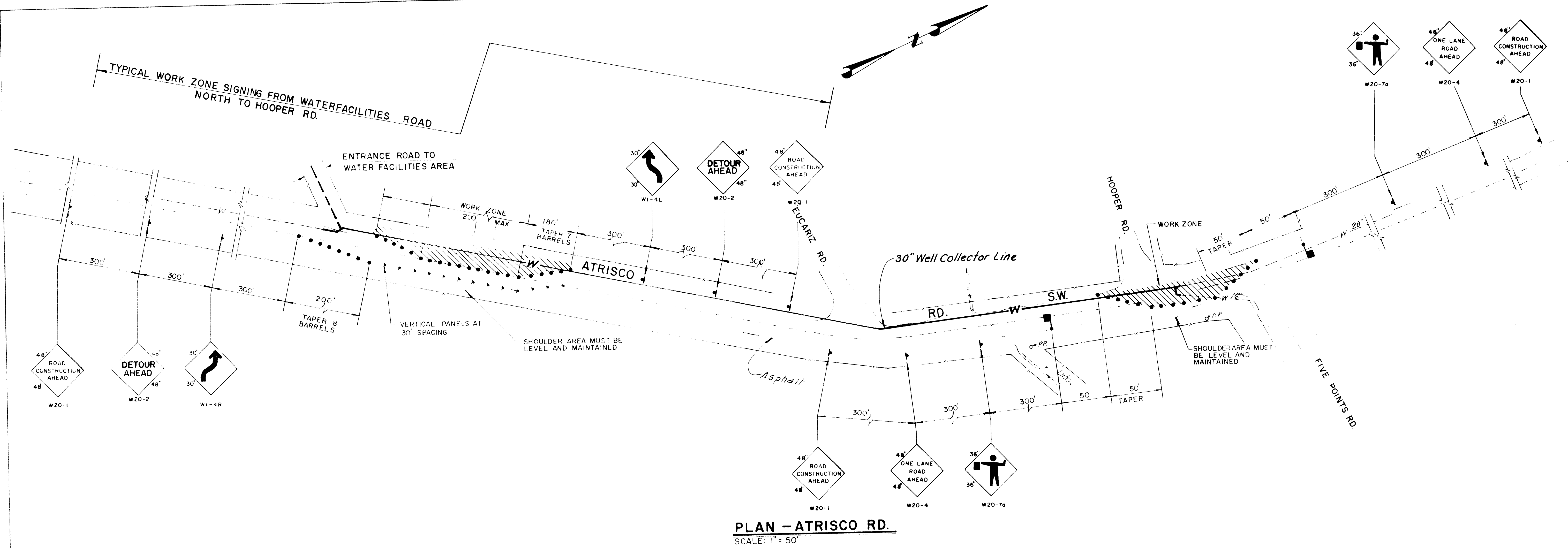
NOTE: Butterfly Valves installed in Concrete Cylinder lines shall include restrained coupling per Spec. drawing W-25-2



APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO. 5 AND VOLCANO CLIFFS NO. 3 WELL LINES COLLECTOR LINE, STA. 22+00 TO STA. 33+94.11 (VOLCANO CLIFFS NO. 3)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. - Design			Traffic		
A.C.E. - Hydrology			Water		
DRAWING NO. 1996			SHEET 8 OF 10		



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Brian F. Dolan
1/84



APPROVED FOR
CONSTRUCTION
CITY ENGINEER DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: ATRISCO NO.5 AND VOLCANO CLIFFS NO.3 WELL LINES TRAFFIC CONTROL PLAN (SOUTH ATRISCO)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E. Design			Traffic		
A.C.E. Hydrology			Water		
DRAWING NO. 1996			SHEET 9 OF 10		

AS BUILT INFORMATION		INTEREST DATE 12/05		INTEREST DATE 12/05	
BENCH MARKS		R. Lucero WUD		R. Lucero WUD	
SURVEY INFORMATION		DATE		DATE	
FIELD NOTES		BY		BY	
NO		NO		NO	
REFERENCES		MAP NO L 12 N		EST NO	
REVISIONS		NO		DATE	
DESIGN		DATE		DATE	
CHECKED BY		DATE		DATE	

