

5687.01	A-A001	L-14-Z	6	28
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CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	25.00'	39.25'	24.98'	35.34'	S46°18'59"E	89°57'00"

LINE	DIRECTION	DISTANCE
L1	S01°20'29"E (SOUTH)	100.18'
L2	S88°40'06"W (WEST)	142.22'
L3	N01°20'29"W (NORTH)	100.28'
L4	N88°42'32"E (EAST)	142.22' (142.00')

TC	FL
1 62.47	61.80
2 --	62.24
3 63.18	62.67

TC	FL
1 64.35	63.85
2 --	63.60
3 64.02	63.35

ACS MONUMENT
"9-L14"
Y=1480772.92
X=381804.60
G=0.9996787
Δα = -00°13'37"
CENTRAL ZONE
(NAD 1929/SLD 1929)
ELEVATION=4961.20

KEYED CONSTRUCTION NOTES

- EXIST WATER SERVICE LINE TO BE ABANDONED. REMOVE AND DISPOSE EXISTING WATER METER BOX. CAP SERVICE LINE AND ABANDON IN-PLACE.
- ON-SITE: 4" FIRE LINE TO BE INSTALLED TO WITHIN 5 FT OF BUILDING. PLACE PRIVATE 4" GATE VALVE AND TYPE 'B' VALVE BOX.
- IN PUBLIC R/W: 6"x4" TAPPING SADDLE, 4" GATE VALVE W/ TYPE 'A' VALVE BOX, 38 LF OF 4" WL AND 18 SQ. YDS OF ASPHALT, REMOVE AND REPLACE.
- NEW 4" SANITARY SEWER SERVICE TO WITHIN 5 FT OF BUILDING.
- REMOVE AND DISPOSE OF EXISTING PCC SIDEWALKS, DRIVE PADS AND CURB & GUTTER. REPLACE WITH PRIVATE RADII ENTRANCES PER COA DWG 2426.
- 4" SAS TAP INTO EXISTING 8" SAS CONTRACTOR TO VERIFY LOCATION & DEPTH.
- LEAVE EXIST. LIGHT POST IN PLACE.
- NEW 1 1/2" WATER SERVICE PER COA DWGS #2361, #2362, & #2363. PVT REMOVAL & REPLACEMENT SHALL BE INCIDENTAL TO INSTALLATION.
- 4" CURB OPENING.
- 2 LF 1 1/2" IRRIGATION LINE STUB-OUT W/ VALVE & CAP IN IRRIGATION VALVE BOX.
- EXISTING STD. C&G TO REMAIN BETWEEN POINTS OF CURVATURE OF RETURNS.

* ITEMS INCLUDED IN ADDITIVE ALTERNATE NO. 1.

LEGEND

- EXIST. LIGHT POLE BASE (NO LIGHT)
- ① EXIST. UTILITY POLE
- OH— EXIST. OVERHEAD UTILITY LINE
- SEWER— EXIST. UNDERGROUND SEWER LINE
- WATER— EXIST. UNDERGROUND WATER LINE
- ⑤ EXIST. SEWER MANHOLE
- ⑥ EXIST. DRAINAGE MANHOLE
- EXIST. WATER METER
- EXIST. TELEPHONE RISER
- EXIST. FIRE HYDRANT
- EXIST. DROP INLET
- X— FENCE
- +— PROPOSED WATER LINE GATE VALVE
- PROPOSED WATER LINE METER BOX
- PROPOSED SANITARY SEWER SERVICE

SPOT ELEVATION LEGEND

- 99.2 EXIST ELEVATION AT GROUND
- 98.64 EXIST ELEVATION AT TOP OF ASPHALT
- 100.32 EXIST ELEVATION AT TOP OF SIDEWALK
- 99.82 EXIST ELEVATION AT CENTERLINE OF DRIVING LANE
- 100.71 EXIST ELEVATION AT TOP OF CURB
- TC 53.8 TOP OF CURB ELEVATION
- FL 53.3 FLOWLINE ELEVATION
- 52.02 PROPOSED ELEVATION AT FLOW LINE
- TA 53.5 PROPOSED ELEVATION AT TOP OF ASPHALT
- 54.75 PROPOSED SPOT ELEVATION
- FLOWLINE



VICINITY MAP

LEGAL DESCRIPTION: LOT 1 AND LOT 2, BLOCK L, EASTERN ADDITION, AS SHOWN ON PLAT FILED ON MAY 31, 1982, IN VOLUME C1, FOLIO 171.

AREA: 0.3272 AC = 14255 SF

BENCHMARK: ACS "9-L14" LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF BRIDGE BLVD AND BROADWAY BLVD SE. ELEVATION = 4961.20

FLOOD ZONE DESIGNATION: FEMA PANEL #334 INDICATES THAT THE SITE IS WITHIN ZONE X AND OUTSIDE THE 500-YR FLOOD PLAIN.

EXISTING CONDITIONS: A BUILDING IS LOCATED AT THE NORTHEAST CORNER OF THE SITE, AND THE REMAINDER OF THE SITE IS CURRENTLY PAVED AND UNPAVED (COMPACTED) PARKING. TRUMBULL AVENUE AND BROADWAY BOULEVARD BORDER THE PROPERTY TO THE NORTH AND EAST RESPECTIVELY. THE SITE RUNOFF SHEETFLOWS FROM EAST TO WEST AT SLOPES RANGING BETWEEN 3% AND 4%.

EXISTING HYDROLOGY:
PRECIPITATION ZONE: 2
LAND TREATMENT:
TYPE C = 37% = 0.121 AC
TYPE D = 63% = 0.206 AC
 $Q_{100} = 3.14(0.121) + 4.70(0.206) = 1.35 \text{ CFS}$

PROPOSED CONDITION: THE EXISTING BUILDING WILL BE DEMOLISHED AND REPLACED WITH A BUILDING FOR THE PROPOSED ALBUQUERQUE POLICE DEPARTMENT SUBSTATION. THE MAJORITY OF THE RUNOFF DEVELOPED ON SITE WILL BE CONVEYED ONTO TRUMBULL AVE. AT A HIGHER RATE THAN EXISTING DUE TO THE INCREASE IN LAND TREATMENT TYPE 'D'.

PROPOSED HYDROLOGY:
LAND TREATMENTS:
TYPE D = 83% = 0.2716 AC
TYPE B = 8% = 0.0262 AC
TYPE C = 9% = 0.0294 AC

$Q_{100} = 4.70(0.2716) + 2.28(0.0262) + 3.14(0.0294) = 1.43 \text{ CFS}$

ENGINEER'S CERTIFICATION
I, FRED C. ARFMAN, PE, LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED FINAL GRADING & DRAINAGE PLAN, DATED 06/16/00 FOR THE APD SOUTH BROADWAY POLICE SUBSTATION, ON FILE WITH THE HYDROLOGY DIVISION, P.W.D., CITY OF ALBUQUERQUE (L14/D49) AS FIELD VERIFIED BY ALDRICH LAND SURVEYING, NMLS NO. 7719 ON NOVEMBER 12, 2001, IN ACCORDANCE WITH THE "NEW MEXICO ENGINEERING AND SURVEYING ACT" SECTION 61-23-1 THROUGH 61-23-32 NMSD (1978).

I FURTHER CERTIFY THAT RETAINING WALLS WERE NOT REQUIRED ON THE ABOVE REFERENCED PROJECT.

FRED C. ARFMAN, PE
FRED C. ARFMAN, NMPE NO. 7322

11-14-01
DATE

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Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico
0436RD.DWGnav 6/16/00

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: South Broadway Police Substation			
100% GRADING & DRAINAGE PLAN			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	NO./DAY/YR.	NO./DAY/YR.
PROJECT NO.		MAP NO.	SHEET OF
			C101-A

RECEIVED
NOV 14 2001

SURVEY INFORMATION				BENCH MARKS		AS BUILT INFORMATION			
FIELD NOTES		DATE		CONTRACTOR		WORK		DATE	
BY		2/99		ACCS "9-L14" LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF BRIDGE BLVD AND BROADWAY		INSPECTOR'S ACCEPTANCE BY		DATE	
ALS				BLVD SE.		FIELD LOCATION BY		DATE	
				ELEV=4961.20		DRAWINGS CORRECTED BY		DATE	
						MICRO—FILM INFORMATION			
						RECORDED BY		DATE	
						NO.			

ENGINEER'S SEAL
FRED C. ARFMAN
STATE OF NEW MEXICO
7322
06-16-00

REMARKS	NO.	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

RECEIVED
NOV 14 2001
HYDROLOGY SECTION

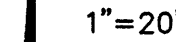
TC		FL
1	62.47	61.80
2	--	62.24
3	63.18	62.67

TC		FL
1	64.35	63.85
2	--	63.60
3	64.02	63.35



	TC	FL
1	67.07	66.30
2	--	66.60
3	67.40	66.90

	TC	FL
1	67.66	67.16
2	--	66.81
3	67.14	66.46


$$1'' = 750' \pm$$

1. EXIST WATER SERVICE LINE TO REMAIN. REMOVE AND REPLACE WATER METER BOX PER COA DWG.
2. 4" FIRE LINE TO BE INSTALLED TO WITHIN 5 FT OF BUILDING. PLACE PRIVATE 4" GATE VALVE AND TYPE 'B' VALVE BOX OUTSIDE OF RIGHT-OF-WAY.
3. 6"x4" TAPPING SADDLE, 4" GATE VALVE W/ TYPE 'A' VALVE BOX, 38 LF OF 4" WL AND 18 SQ. YDS OF ASPHALT, REMOVE AND REPLACE.
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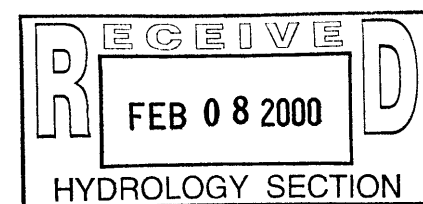
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DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

NO./DAY/YR.	
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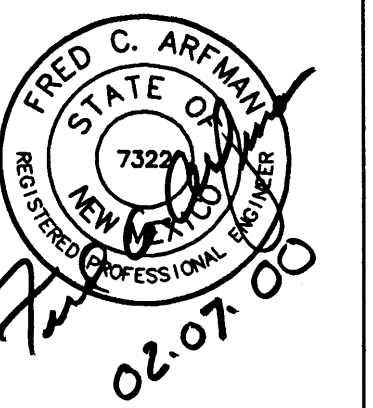
MO./DAY/YR.

PROJECT NO.

MAP NO.

SHEET OF
C101

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

[illegible][illegible]

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