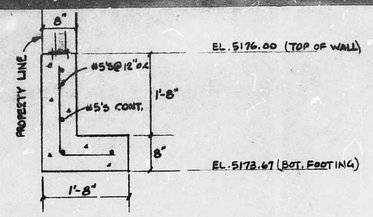
HYDROLOGY

C18/D8
4 PLANS




## DETAIL "A"

NOTE:
NO OUTSIDE FLOWS
ENTER THIS PROPERTY

DRAINAGE AREA: 38,540 SQ.FT. OR 0.88 ACRES
TIME OF CONCENTRATION: 10 MINUTES
INTENSITY OF RAINFALL:
6 HR. RAINFALL = 2.3 INCHES

$I = (2.3)(6.84)(10)^{-0.51}$

$I = 4.86$ INCHES PER HOUR

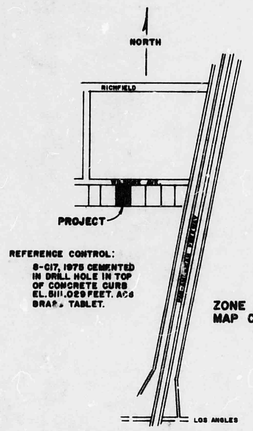
$Q_{100} = CIA$ C= 0.90 DEVELOPED
$= (0.90)(4.86)(0.88)$
$= 3.85$ CFS

SELECT SIZE OF SIDEWALK CULVERT:
TRY 18":

$Q = CLH^{1.5}$
$Q = (3.0)(1.5)(0.90)^{1.5}$
$Q = 3.84$ CFS

USE: 18 INCH WIDE SIDEWALK CULVERT

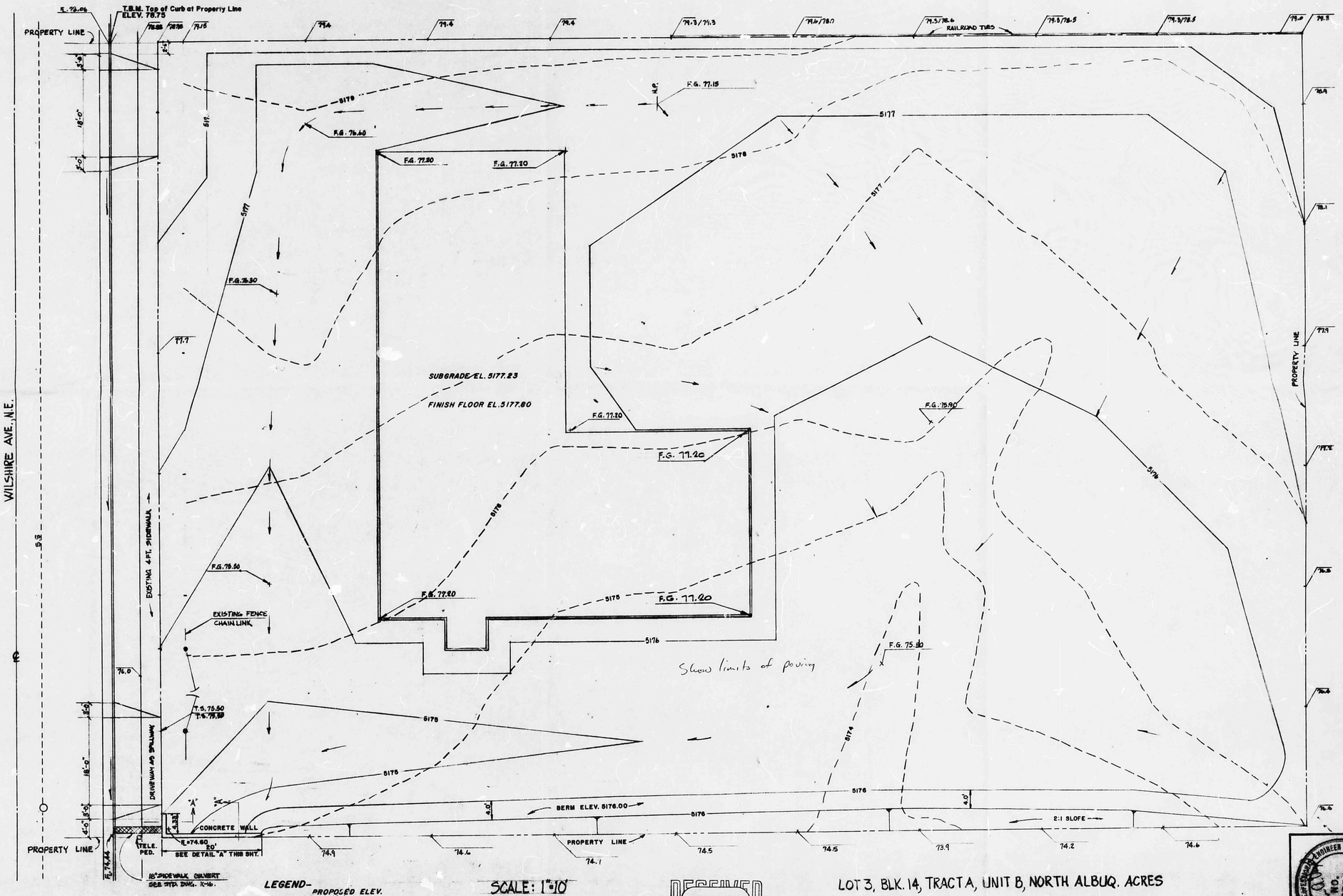
NO CREEK STORAGE IS REQUIRED ON THIS PROPERTY BECAUSE AN EXISTING 24 INCH STORM SEWER IS IN PLACE DIRECTLY DOWN STREAM WITH CATCH BASINS. THE EXISTING STORM SYSTEM IS PART OF THE FIRST DRAINAGE ACCOUNTING DISTRICT.




REFERENCE CONTROL:
G-C17, 1975 CEMENTED IN DRILL HOLE IN TOP OF CONCRETE CURB EL.5111.0259 FEET. A/G BRAF. TABLET.

ZONE ATLAS
MAP C-18

OWNER: DON & KIM YATES - AQUATIC POOLS
7128 JEFFERSON, N.E., ALBQ., N.M.
Tel. 345-8211




LEGEND-
PROPOSED ELEV.
EXISTING ELEV.
T.S. – TOP OF SIDEWALK
F.G. – FINISH GRADE

SCALE: 1"=10'

RECEIVED
OCT 07 1983
HYDROLOGY SECTION

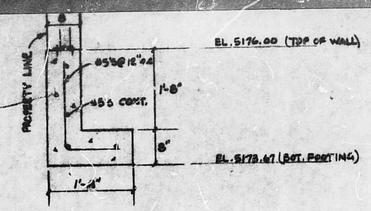
LOT 3, BLK. 14, TRACT A, UNIT B, NORTH ALBUQ. ACRES

SITE GRADING - DRAINAGE SC- 1:10

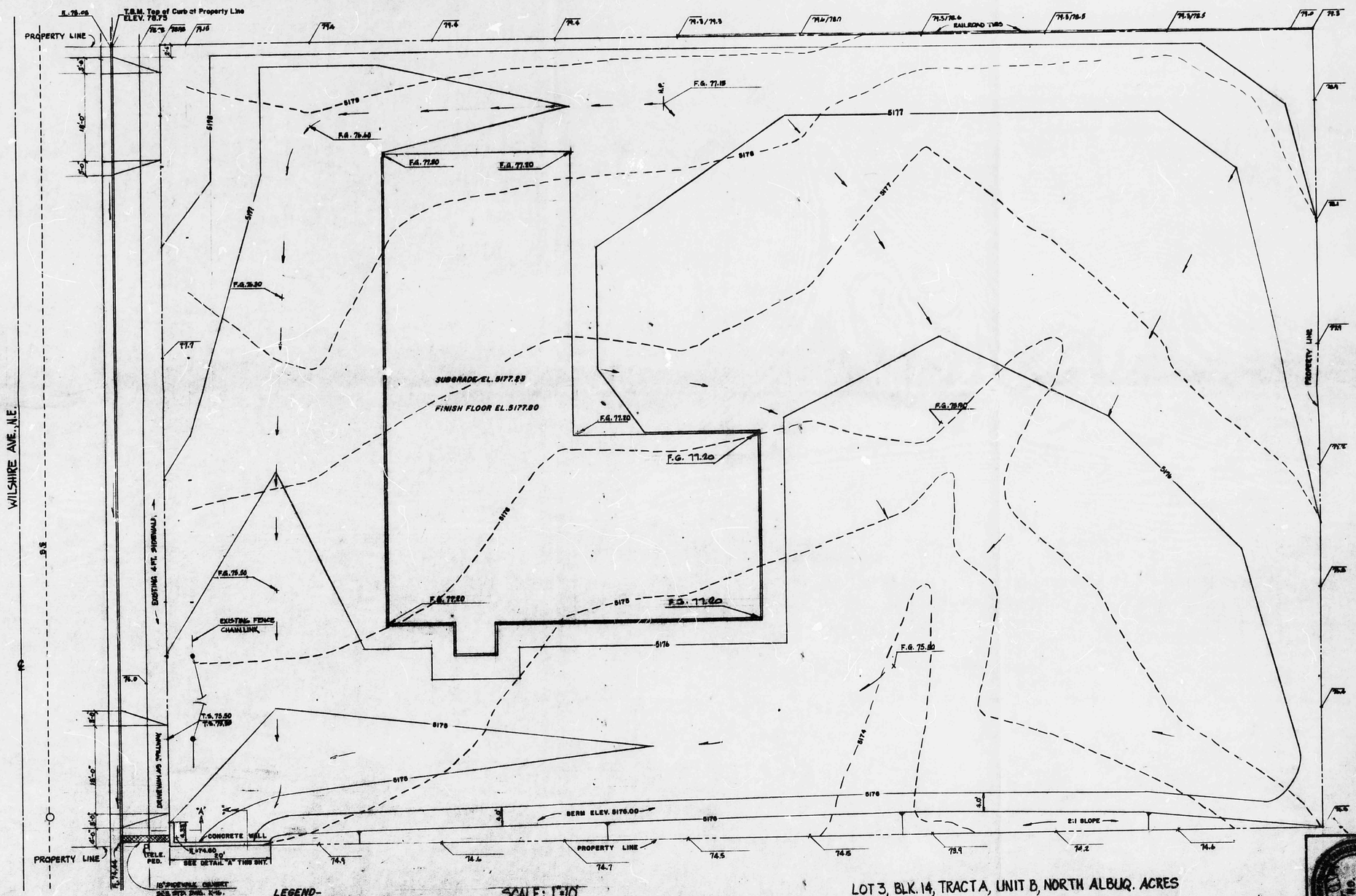
VIGIL ENGINEERING TEL. (505) 881-2456
2552 ORTIZ DR. NE
ALBUQUERQUE, NEW MEXICO

REGISTERED PROFESSIONAL ENGINEER NO. 8870

SHT 2 of 8




DETAIL "A"




NOTS:
NO OUTSIDE FLOWS
ENTER THIS PROPERTY

DRAINAGE AREA: 38,500 SQ.FT. OR 0.88 ACRES
TIME OF CONCENTRATION: 10 MINUTES
INTENSITY OF RAINFALL:
6 HR. RAINFALL = 2.3 INCHES

$I = (2.3)(6.88)(10)^{-0.51}$

$I = 4.86$ INCHES PER HOUR

$Q_{100} = CIA$ C= 0.90 DEVELOPED

$= (0.90)(4.86)(0.88)$

$= 3.85$ CFS

REQUIRED SIZE OF SIDEWALK CULVERT:
TRY 18":

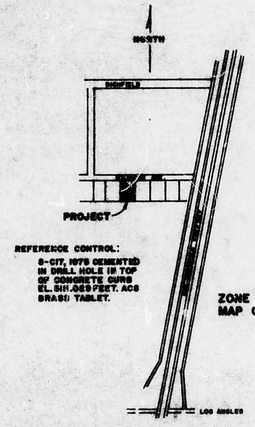
$Q = CD^{1.5}$

$Q = (3.0)(1.5)(0.90)^{1.5}$

$Q = 3.85$ CFS

USE: 18 INCH SIDE SIDEWALK CULVERT

NO CURVED SECTION IS REQUIRED ON THIS PROJECT BECAUSE AN EXISTING 24 INCH CULVERT EXISTS IN BLACK MESQUITE DRIVE STREET SIDE CURBS PARKING. THE EXISTING CULVERT SHOULD BE PART OF THE FIRST DRAINAGE ASSESSMENT DISTRICT.




REFERENCE CONTROL:
B-C17, 1979 CEMENTED IN DRILL HOLE IN TOP OF CONCRETE CURB EL. 5181.629 FEET. ACS BRASS TABLET.

ZONE ATLAS
MAP C-16

OWNER: RON & KIM YATES - AQUATIC POOLS
7128 JEFFERSON, N.E., ALBQ., N.M.
Tel. 345-5911

LEGEND-
PROPOSED ELEV.
EXISTING ELEV.
T.S. - TOP OF SIDEWALK
F.G. - FINISH GRADE

SCALE: 1"=10'

LOT 3, BLK. 14, TRACT A, UNIT B, NORTH ALBUQ. ACRES

# SITE GRADING - DRAINAGE

SC- 1:10

VIGIL ENGINEERING TEL. (505) 881-2458
2332 ORTIZ DR. NE
ALBUQUERQUE NEW MEXICO

SHEET 2 OF 2

① Information Sheet
② Offsite flows?
③ North Arrow & Legend

RECEIVED
AUG 29 1983
ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
JACOB A. VIGIL
NEW MEXICO
4570
8/29/83

DRAINAGE AREA: 38,540 SQ.FT. OR 0.88 ACRES
TIME OF CONCENTRATION: 10 MINUTES
INTENSITY OF RAINFALL:
6 HR. RAINFALL = 2.3 INCHES

$I = (2.3)(6.84)(10)^{-0.51}$

I = 4.86 INCHES PER HOUR

$Q_{100} = CIA$ C= 0.90 DEVELOPED
$= (0.90)(4.86)(0.88)$
$= 3.85$ CFS

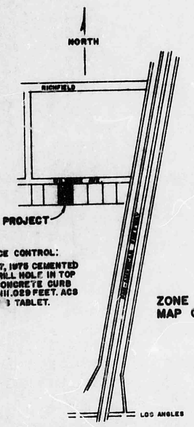
SELECT SIZE OF SIDEWALK CULVERT:
TRY 18":

$Q = CLH^{1.5}$
$Q = (3.0)(1.5)(0.90)^{1.5}$
$Q = 3.84$ CFS

USE: 18 INCH WIDE SIDEWALK CULVERT

NO ONSITE STORAGE IS REQUIRED ON THIS PROJECT BECAUSE AN EXISTING 24 INCH STORM SEWER IS IN PLACE DIRECTLY DOWN STREAM WITH CATCH BASINS. THE EXISTING STORM SYSTEM IS PART OF THE FIRST DRAINAGE ASSESSMENT DISTRICT.

Not on maps. Where does it go?

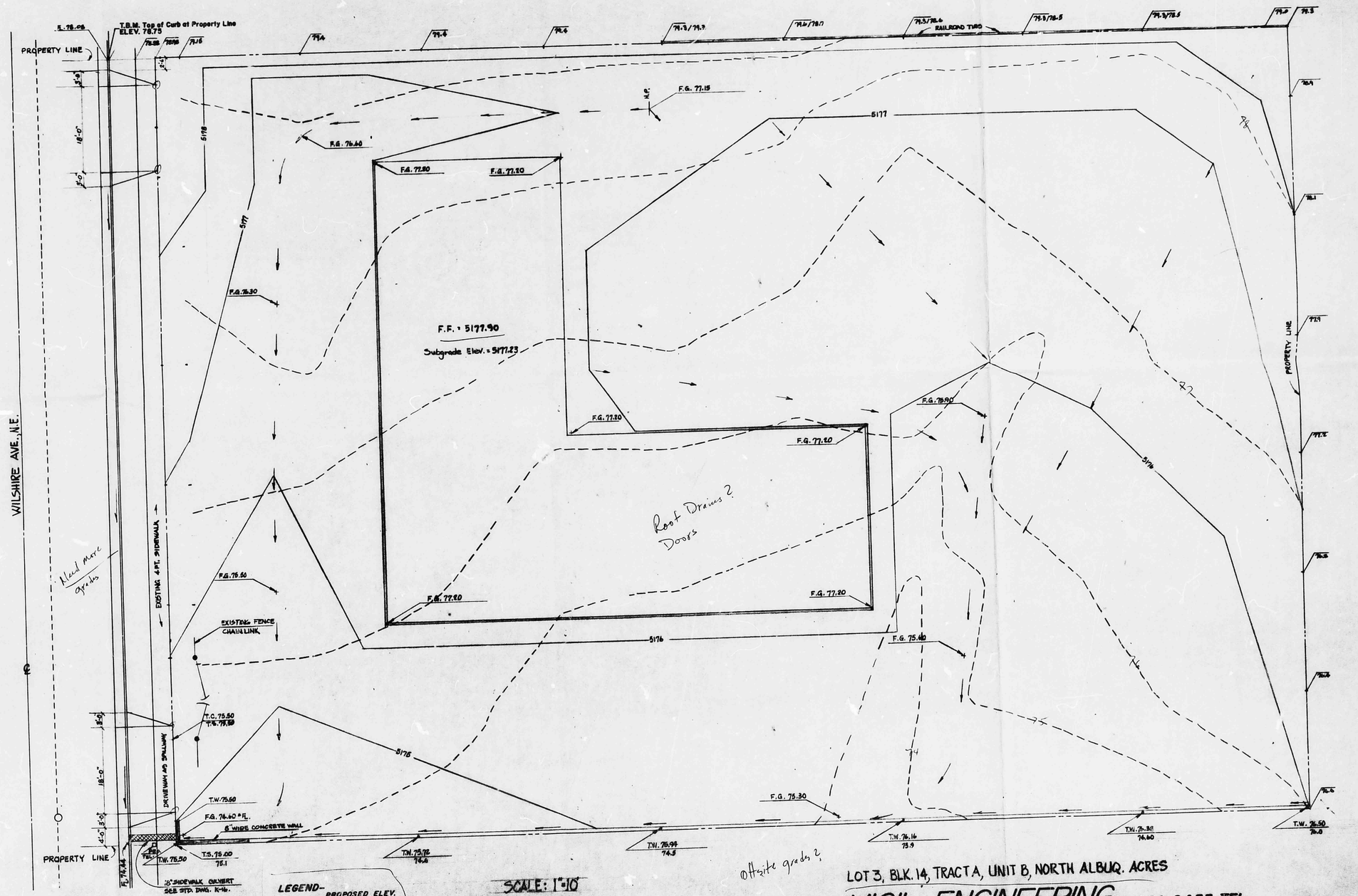



Legal?

REFERENCE CONTROL:
B-C17, 1978 CEMENTED IN DRILL HOLE IN TOP OF CONCRETE CURB EL. 5111.089 FEET. ACS BRASS TABLET.

ZONE ATLAS MAP C-18-09

OWNER: RON & KIM YATES - AQUATIC POOLS
7128 JEFFERSON, N.E., ALBQ., N.M.
Tel. 345-8911




LEGEND- PROPOSED ELEV. / EXISTING ELEV.

SCALE: 1"=10'

LOT 3, BLK. 14, TRACT A, UNIT B, NORTH ALBUQ. ACRES

VIGIL ENGINEERING 881-2455 TEL.

RECEIVED
AUG 29 1983
ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
JACOB A. VIGIL

DRAINAGE AREA: 38,580 SQ.FT. OR 0.88 ACRES
TIME OF CONCENTRATION: 10 MINUTES
INTENSITY OF RAINFALL:
6 HR. RAINFALL = 2.3 INCHES

$I = (2.3)(6.84)(10)^{-0.51}$

$I = 4.86$ INCHES PER HOUR

$Q_{100} = CIA$ C= 0.90 DEVELOPED

$= (0.90)(4.86)(0.98)$

$= 3.85$ CFS

SELECT SIZE OF SIDEWALK CULVERT:
TRY 18":

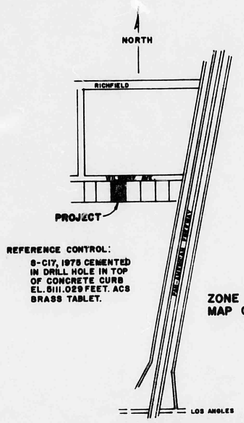
$Q = CLh^{1.5}$

$Q = (3.0)(1.5)(0.90)^{1.5}$

$Q = 3.84$ CFS

USE: 18 INCH WIDE SIDEWALK CULVERT

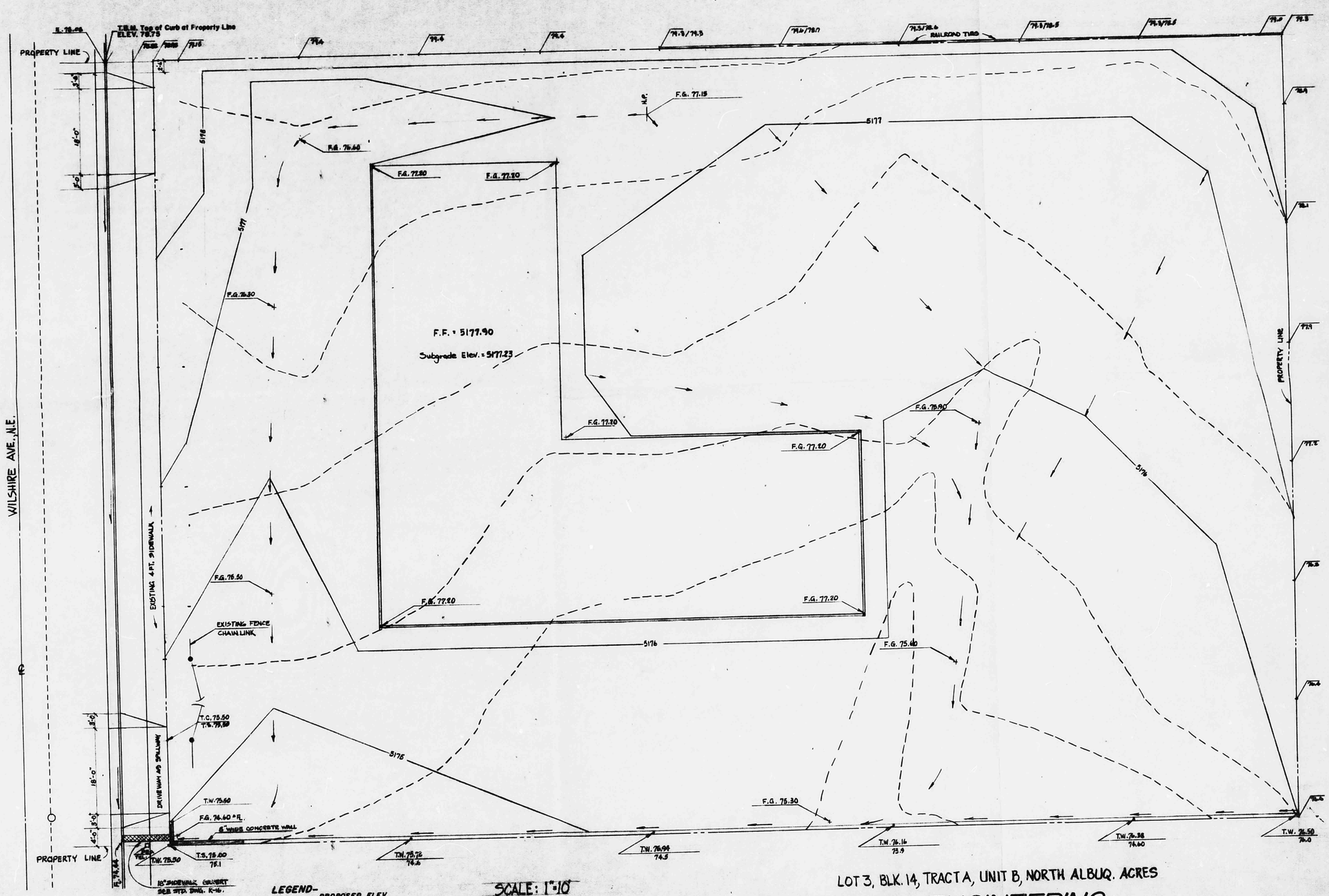
NO ONSITE STORAGE IS REQUIRED ON THIS PROPERTY BECAUSE AN EXISTING 24 INCH STORM SEWER IS IN PLACE DIRECTLY DOWN STREAM WITH CATCH BASINS. THE EXISTING STORM SYSTEM IS PART OF THE FIRST DRAINAGE ASSESSMENT DISTRICT.




REFERENCE CONTROL:
S-CIT, 1975 CEMENTED IN DRILL HOLE IN TOP OF CONCRETE CURB EL. 5111.0589 FEET. ACS BRASS TABLET.

ZONE ATLAS MAP C-18

OWNER: RON & KIM YATES - AQUATIC POOLS
7128 JEFFERSON, N.E., ALBQ., N.M.
Tel. 345-6911




LOT 3, BLK. 14, TRACT A, UNIT B, NORTH ALBUQ. ACRES

VIGIL ENGINEERING 881-2455 TEL.