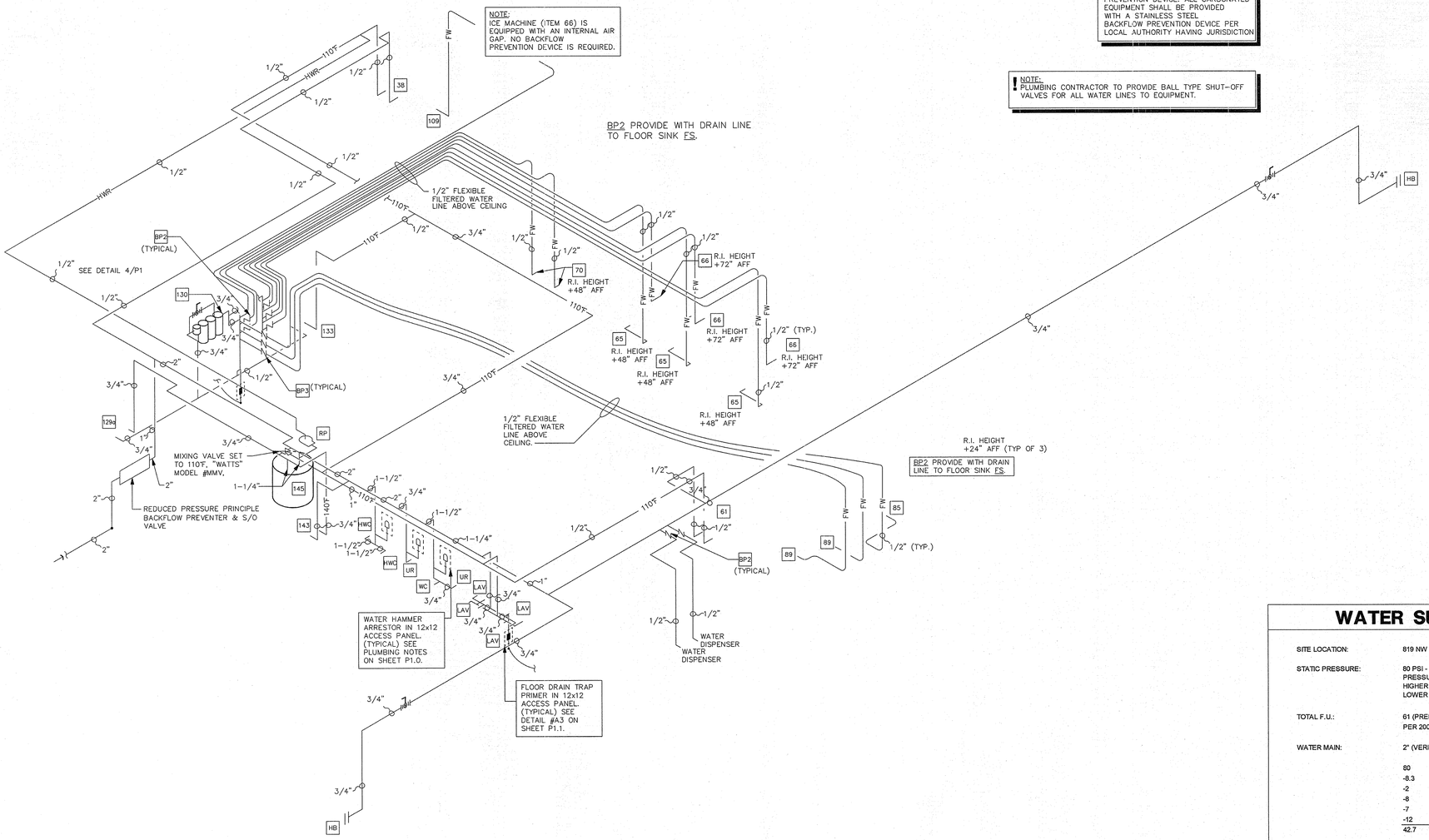

WATER SUPPLY CALCULATION

SITE LOCATION:	819 NW 516, FLORA VISTA, SAN JUAN COUNTY, NM
STATIC PRESSURE:	80 PSI - FIELD VERIFY. PROVIDE WITH PRESSURE REDUCING VALVE. IF PRESSURE IS HIGHER THAN 80 P.S.I., NOTIFY ENGINEER IF LOWER THAN STATED.
TOTAL F.U.:	61 (PREDOMINANTLY FLUSH VALVES) PER 2009 IAPMO UPC
WATER MAIN:	2" (VERIFY WITH WATER COMPANY)

80	P.S.I. PRESSURE IN MAIN
-8.3	P.S.I. LOSS THROUGH 1-1/2" METER
-2	P.S.I. LOSS THROUGH TAP
-8	P.S.I. FIXTURE LOSS AT END
-7	P.S.I. DROP FOR ELEVATION (14 FT)
-12	P.S.I. BACKFLOW PREVENTER
42.7	P.S.I. AVAILABLE PRESSURE

PIPE LENGTH (TAP TO METER)	9 FT
PIPE LENGTH (METER TO BUILDING)	69.2 FT
PIPE LENGTH (BUILDLING TO LAST FIXTURE)	130 FT
VERTICAL LENGTH	12 FT
EQUIVALENT LENGTH OF FITTINGS	110.1 FT
TOTAL DEVELOPED LENGTH	330.3 FT

MAX ALLOWABLE LOSS (PER 100 FT OF PIPE) = PRESSURE AVAILABLE: 42.7 / TOTAL LENGTH: 330.3 X 100 = 12.9 P.S.I/100 FT

SIZE PIPES PER 7 FT/SEC.

P1 HOT + COLD WATER PIPING SCHEMATIC

N.T.S. -

GreenbergFarrow
19000 MacArthur Blvd., Suite 250
Irvine, CA 92612
t: 949 296 0450 f: 949 296 0437

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ISSUE/REVISION RECORD

DATE	DESCRIPTION
03/28/14	PLAN CHECK SUBMITTAL

PROFESSIONAL SEAL

JAMES NICHOLAS LEDYARD
NEW MEXICO
20862
LICENSED PROFESSIONAL ENGINEER
MAR 28 2014

PROFESSIONAL IN CHARGE
JAMES LEDYARD
PROJECT MANAGER
DARCY HASBERRY
QUALITY CONTROL
JAMES LEDYARD
DRAWN BY
DARCY HASBERRY

PROJECT NAME
CIRCLE K STORES, INC.

SAN JUAN COUNTY
NEW MEXICO

819 NM 516
FLORA VISTA
SAN JUAN COUNTY, NM

CIRCLE K STORES INC.

PROJECT NUMBER
20130787.0

SHEET TITLE
SCHEMATICS

SHEET NUMBER
P3.1