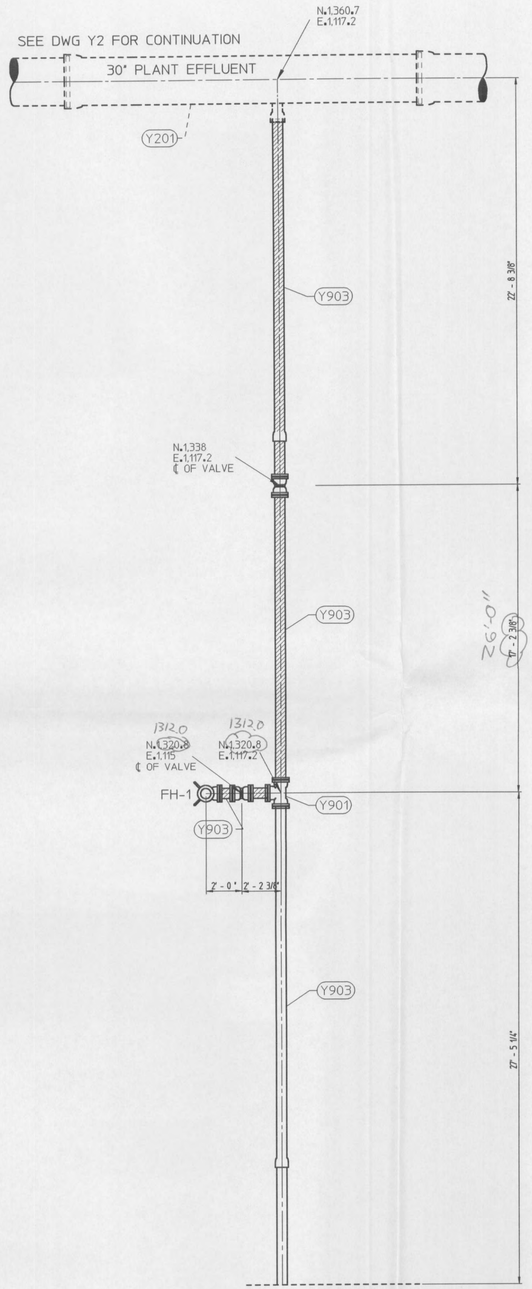

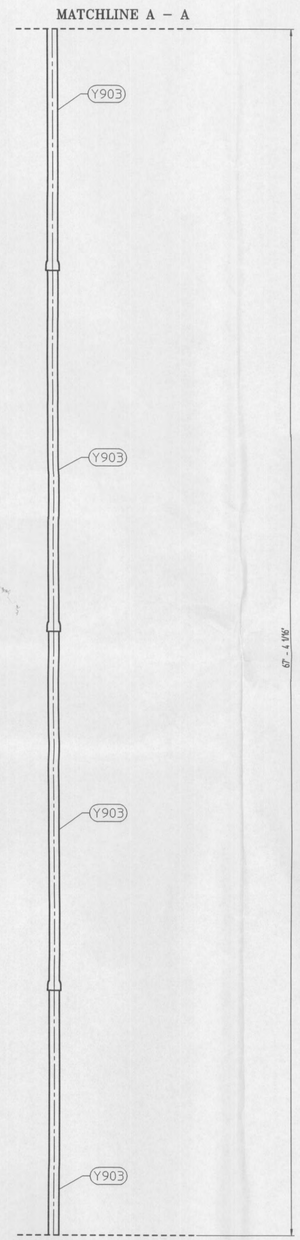

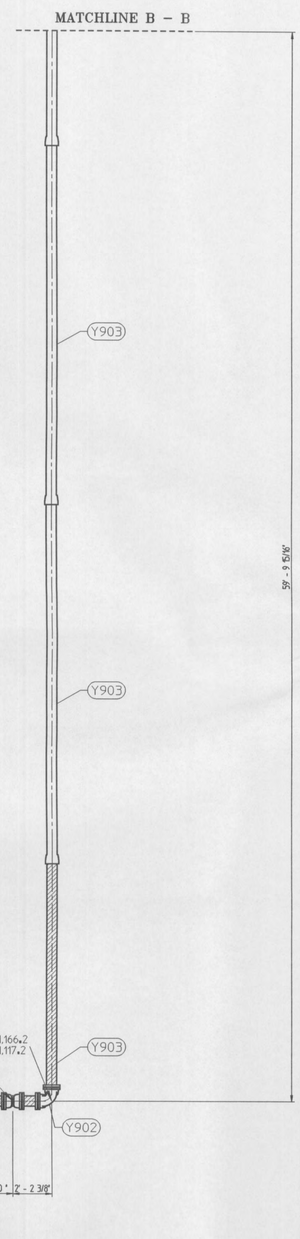

6" WATER MAIN

BILL OF MATERIAL

Project Number KM001998 — Drawing Rev. 1 — Drawing Num. C02010-Y9

QTY	SPBID	MARK	DESCRIPTION
1	cl-asp	Y901	6"X6"X6" MJ C153 TEE, ALL CENTERS 6", 350 PSI (P), 4-2-2-2
1	cl-asp	Y902	6" MJ C153 90 BEND, ALL CENTERS 6.5", 350 PSI (P), 4-2-2-2
11	CL-ASPFG	Y903	6" FST FSTPE PIPE CL-350/CL-50 0.25" 20'1", 2-2-2-2

** - Indicates the item has been placed on order.

SPECIFICATION BOUNDARY DEFINITIONS

Boundary ID: cl-asp
Boundary name: cl-asp
Boundary unit: I
Service type: PROCESS
Service temp: 50
Environment: EXT/BURIED

Pipe lining: Single Thick C/L with Seal Coat: Black, 1-Coat, AWWA C104
Pipe coating: Asphaltic Coated: Black, 1-Coat, 3-Avg, 1-Min
Fitting lining: Double Thick C/L with Seal Coat: Black, 1-Coat, AWWA C104
Fitting coating: Asphaltic Coated: Black, 1-Coat, 3-Avg, 1-Min

Gasket types

FASTITE - Fastite Gasket, Plain Rubber Styrene-Butadiene
FLEX-RING 4-12 - Fastite Gasket, Plain Rubber Styrene-Butadiene
FLG LESS ACCESSORIES - none
FRBELL FLEX-RING - Fastite Gasket, Plain Rubber Styrene-Butadiene
MJ MEGALUG GLAND - Mechanical Joint Gasket, Plain Rubber Styrene-Butadiene
RIGID GROOV LESS ACC - none

Boundary ID: CL-ASPFG
Boundary name: FAST GRIP
Boundary unit: I
Service type: PROCESS
Service temp: 50
Environment: EXT/BURIED

Pipe lining: Single Thick C/L with Seal Coat: Black, 1-Coat, AWWA C104
Pipe coating: Asphaltic Coated: Black, 1-Coat, 3-Avg, 1-Min
Fitting lining: Double Thick C/L with Seal Coat: Black, 1-Coat, AWWA C104
Fitting coating: Asphaltic Coated: Black, 1-Coat, 3-Avg, 1-Min

Gasket types

FAST GRIP - Fastgrip Gasket, Plain Rubber Styrene-Butadiene
FLEX-RING 4-12 - Fastite Gasket, Plain Rubber Styrene-Butadiene
FLG LESS ACCESSORIES - none
FRBELL FLEX-RING - Fastite Gasket, Plain Rubber Styrene-Butadiene
MJ - Mechanical Joint Gasket, Plain Rubber Styrene-Butadiene
RIGID GROOVED - Victaulic style 31 Flush-Seal Gasket, Butyl Rubber for Victaulic Gaskets

NO EXCEPTIONS NOTED
EXCEPTIONS NOTED
RETURNED FOR CORRECTION
RECORD COPY ☐ NOT ACCEPTABLE
RETURNED WITHOUT REVIEW

AUG 0 1 2002

REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS, OMISSIONS, OR DEVIATIONS FROM CONTRACT REQUIREMENTS.

BLACK & VEATCH

UNDERGROUND PIPE LENGTHS

Installed underground pipe lengths cannot be guaranteed. The industry practice of nominal laying lengths as described in AWWA C151, manufacturing tolerances, advertent and inadvertent joint deflection, and joint take-up will influence the assembled length For 47-36" restrained joint piping, AMERICAN suggests the use of field adaptable joints such as FAST GRIP or FIELD FLEX-RING (depending on diameter) in any critical closure areas that may be shown on this drawing to provide practical field adaptability.

RESTRAINED JOINT PIPING (NE)
(Nominal Extension)

Flex-Ring and Lok-Ring joint pipe designated 'NE', have been detailed on this drawing with a nominal joint extension or creep allowance at each joint of 1/4". This joint extension or creep is anticipated due to normal installation practice and tolerance in the joint itself.

AMERICAN DUCTILE IRON PIPE
A DIVISION OF AMERICAN CAST IRON PIPE COMPANY
PHONE: 1-800-442-2347 FAX: 1-800-442-2348
P O BOX 2727 BIRMINGHAM, ALABAMA 35202
2916 16th STREET NORTH BIRMINGHAM, ALABAMA 35207

4"-64" Diameter Ductile Iron Pipe - Fastite Joint, Mechanical Joint, Flanged Joint
Flex-Ring Restrained Joint, Lok-Ring Restrained Joint, Flex-Lok Restrained Joint,
ANSI A21.10, A21.53, & AMERICAN Standard Fittings
ANSI A21.4 Cement lining, POLYBOND Lining, plus Special Coatings & Linings
American Flow Control - Valves And Hydrants

REVISED BY:	DATE:	REV #
Angelia Neeley	18Jun2002	1

CONDAIRE, INCORPORATED

WATER TREATMENT FACILITIES
O'FALLON, MO

WATER MAIN
REF. DWGS. B1, B2 & B6

DRAWN BY: Angelia Neeley
DATE DRAWN:22May2002
SCALE: NTS
PROJECT NUMBER: KM001998
C02010-Y9