

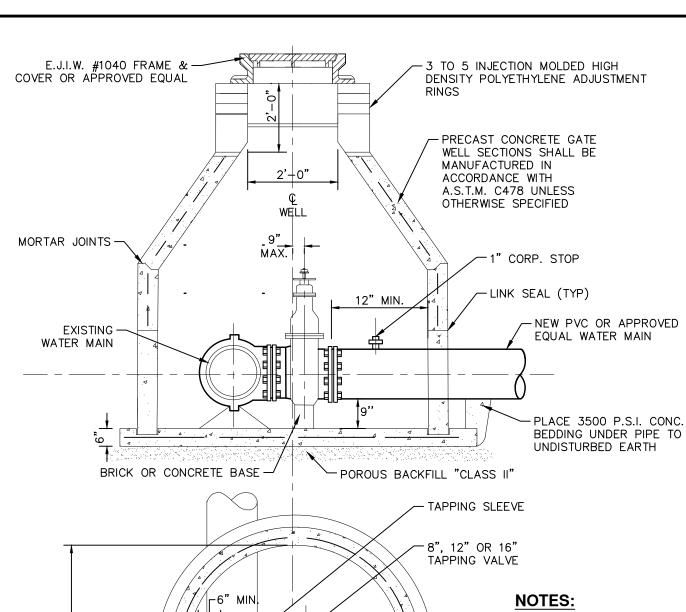


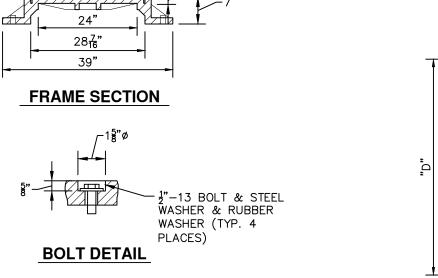


MCA JOB #:1039-18-8756 DATE: 06.19.2023

SCALE: AS SHOWN PER DETAIL Metro Consultin Associates COUNTY: WAYNE

SHEET:

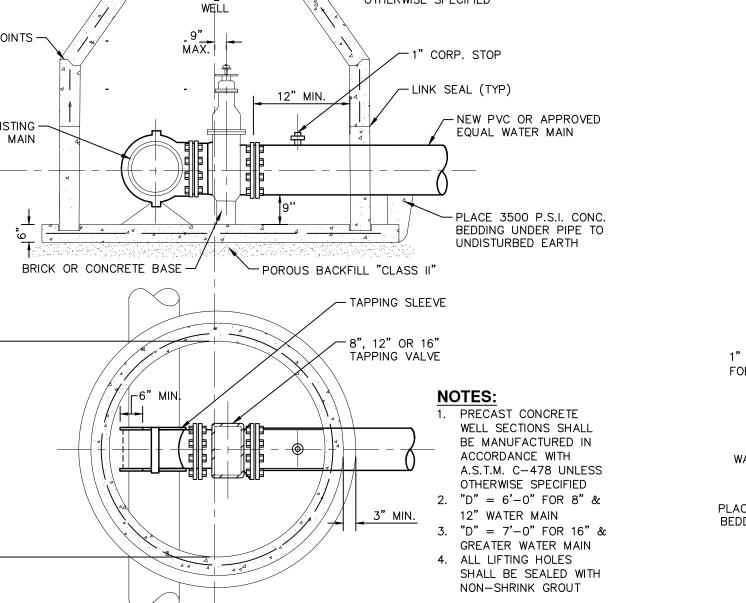




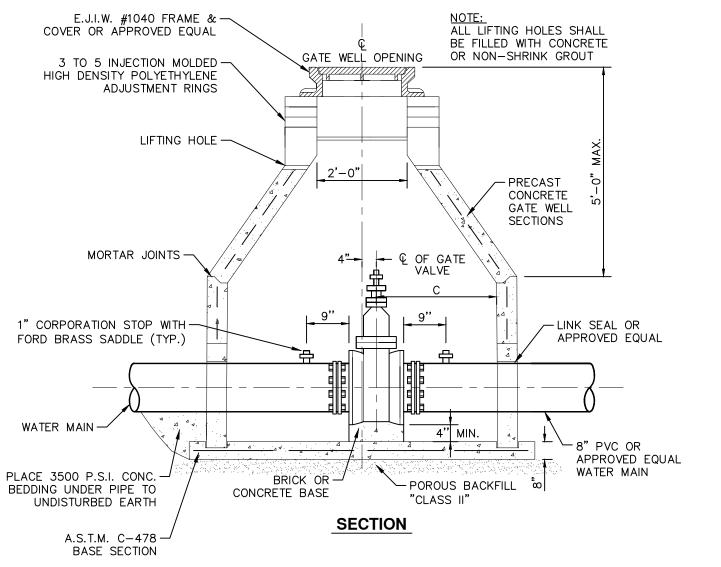
BOLTHOLE DETAIL GATE WELL FRAME & COVER NOT TO SCALE MAT'L SPEC.: COVER- GRAY IRON ASTM A48 CL35B

BOTTOM VIEW OF COVER

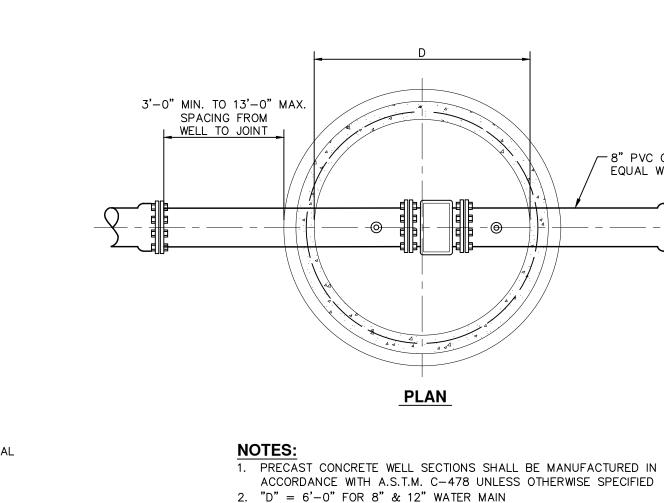
PICKHOLE DETAIL







GATE WELL SECTION



NON-SHRINK GROUT

GATE VALVE & WELL

NOT TO SCALE

− USE APPROPRIATE COVER AND — BOLT DOWN WATERPROOF FRAME

1" TYPE "K" COPPER PIPE

-STAINLESS STEEL ANCHOR-

---- CAST IRON AIR-RELEASE VALVE

-1" CORP STOP

- 3500 PSI CONCRETE

MATERIAL (3" MIN.

UNDER ENCASEMENT)

- CAST IRON AIR

EXISTING PIPE

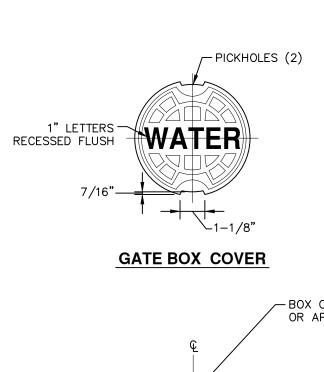
RELEASE VALVE

─ 1" I.P. THREADED OUTLET

-DRILL AND TAP INTO

4. ALL LIFTING HOLES SHALL BE SEALED WITH CONCRETE OR

3. "D" = 7'-0" FOR 16" & GREATER WATER MAIN



'SHARP FACE

PIĆKHOLES

-1"ø HOLES ON

334" BOLT CIRCLE, EQUALLY PLACED.

TOP VIEW OF COVER

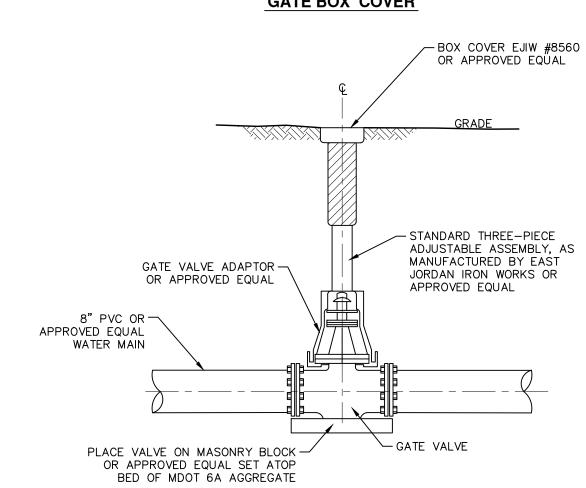
COVER SECTION

CATALOG NO. 1040 A

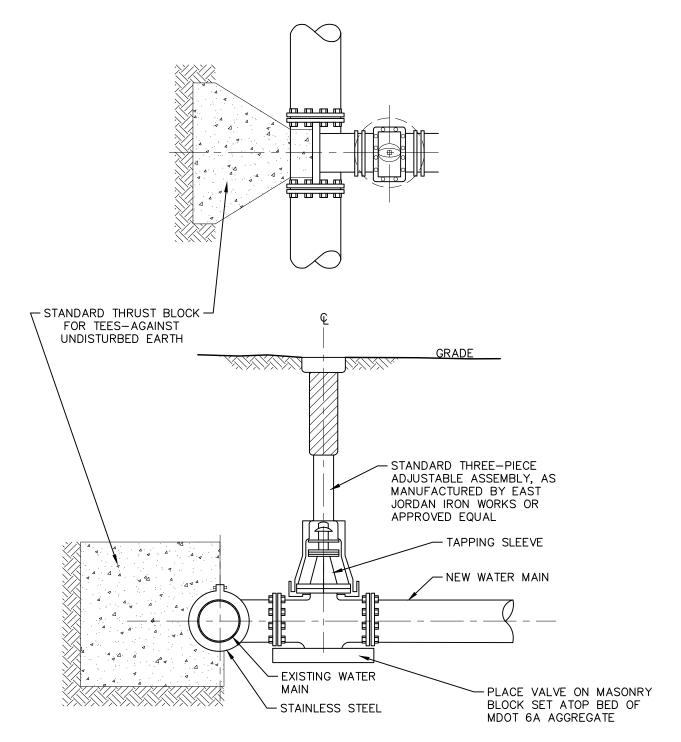
COATING: DIPPED

EST. WEIGHT COVER: 150 LBS.

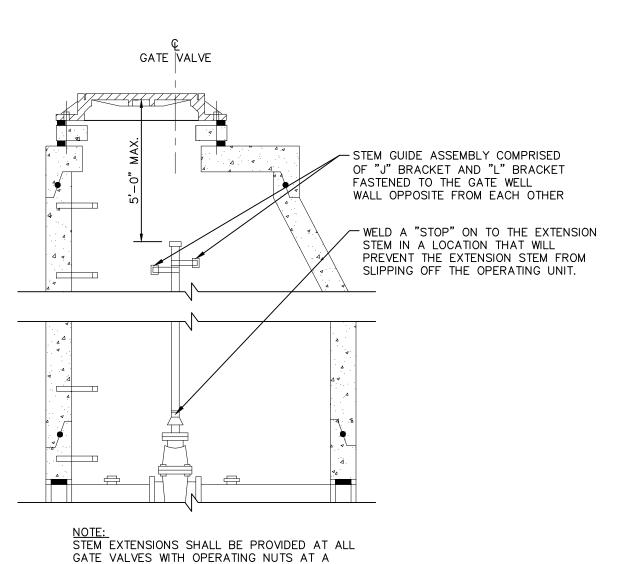
LOAD RATING: HEAVY DUTY



GATE VALVE & BOX NOT TO SCALE



GATE VALVE & BOX WITH THRUST BLOCK



STEM EXTENSION DETAIL

NOT TO SCALE

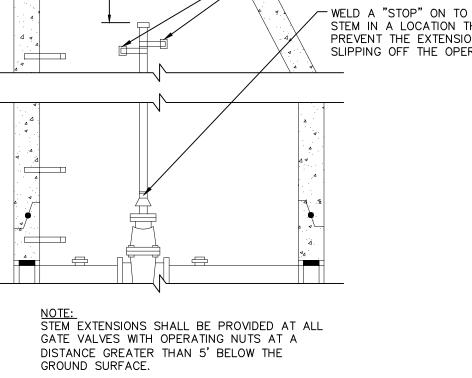
AIR RELEASE VALVE AND WELL

AWWA APPROVED-

SPRING LOADED

CHECK VALVE

VERTICAL DOUBLE



FOR 12 INCH OR GREATER WATER MAIN

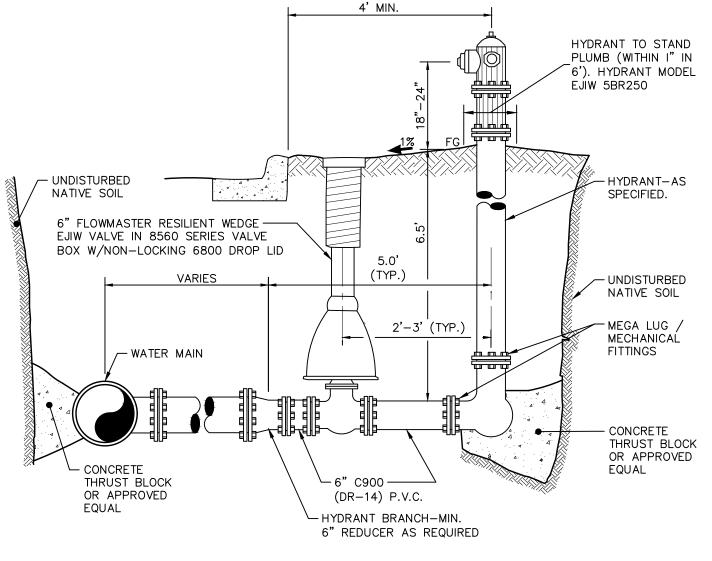
RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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CONSTRUCTION SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

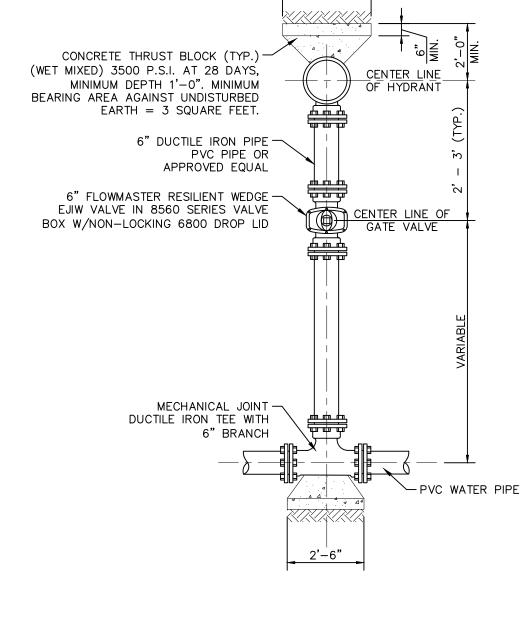


4 INCH BLOWOFF NOT TO SCALE

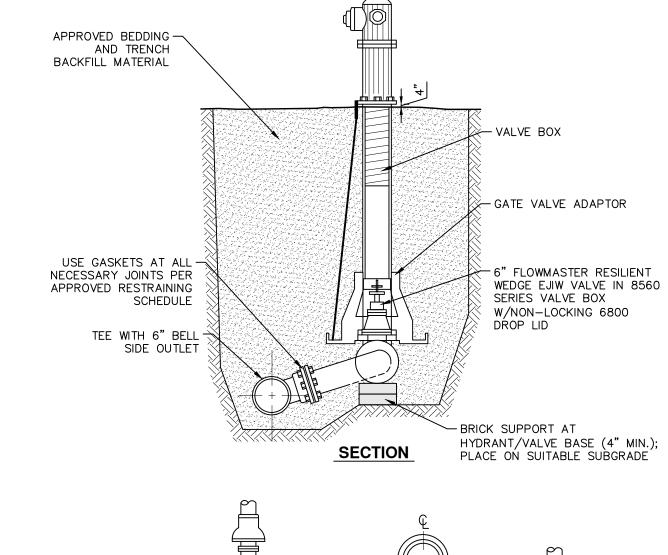


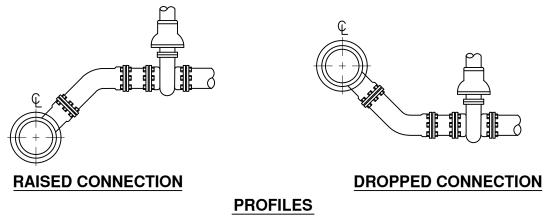
- 1. REFER TO SPECIFICATION FOR HYDRANT AND GATE VALVE (EJIW-5BR250) 2. HYDRANT TO BE A MINIMUM OF 3 FEET - 10 FEET BEHIND CURB.
- 3. TRACE WIRE (12 GAUGE OR LARGER) SHALL BE INSTALLED PER SPECIFICATION.
- 4. HYDRANT SHALL BE LEFT-TURN OFF. 5. CONTRACTOR TO INCLUDE ALL NECESSARY MATERIALS TO CONNECT TO EXISTING MAIN.

FIRE HYDRANT ASSEMBLY NOT TO SCALE

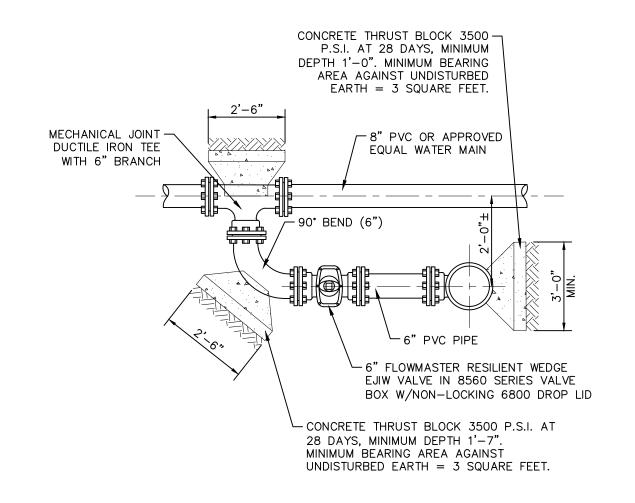


STRAIGHT HYDRANT CONNECTION NOT TO SCALE

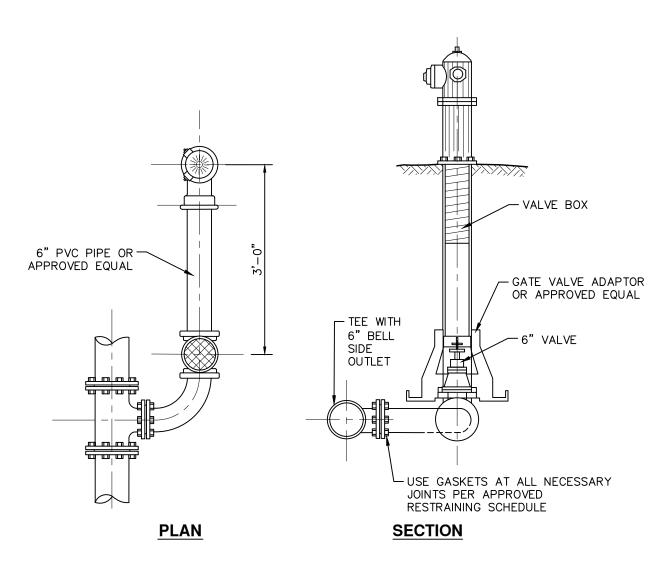




90 DEGREE FIRE HYDRANT ASSEMBLY NOT TO SCALE



L FIRE HYDRANT ASSEMBLY



USE GASKETS AT ALL NECESSARY JOINTS PER APPROVED RESTRAINING SCHEDULE

CLOSE COUPLE HYDRANT SETTING

RED "REFLECTIVE" LETTERS WITH WHITE "REFLECTIVE" BACKGROUND. LETTERS WILL

BE A MINIMUM OF 8" TALL BY 4" WIDE

WITH 2" GIRTH, WITH AN 8" TALL X 4"

FIRE MARSHALL

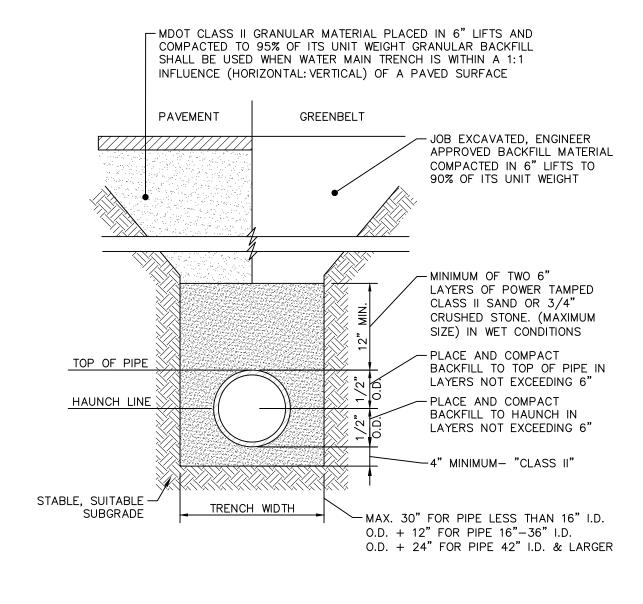
WIDE RED ARROW UNDER LETTERS POINTING DIRECTLY AT THE CONNECTION. TALLER BUILDINGS MAY REQUIRE LARGER LETTERING. SIGN SIZE AND LOCATION DETERMINED BY

THRUST BLOCK PLAN VIEW NOT TO SCALE

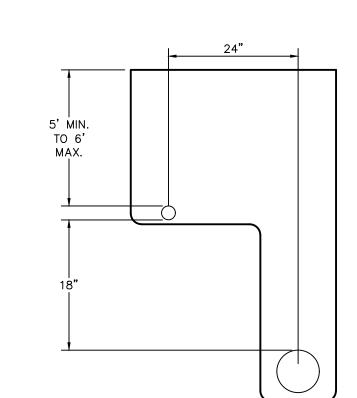
BEND	THRUST	DIMENSION (D) OF WATER MAIN					
N	BLOCK DIMENSION	6''	8"	10" & 12"	14" & 16"	18" & 20"	24" +
90°	Α	2'-9"	3'-0"	5'-6"	6'-0"	9'-0"	11'-0"
	В	1'-6"	2'-6"	3'-0"	5'-0"	5'-0"	6'-0"
	С	0'-9"	1'-0"	1'-3"	1'-6"	1'-9"	2'-0"
45°	Α	2'-0"	2'-0"	3'-6"	5'-6"	6'-6"	7'-0"
	В	1'-6"	2'-0"	2'-6"	3'-0"	4'-0"	5'-0"
	С	1'-0"	1'-3"	1'-6"	1'-9"	1'-9"	2'-0"
22 1/2°	Α	1'-6"	1'-9"	3'-0"	4'-0"	4'-0"	4'-0"
	В	1'-0"	1'-3"	1'-6"	2'-0"	3'-0"	4'-6"
	С	1'-0"	1'-0"	1'-3"	1'-6"	1'-9"	2'-0"
11 1/4°	Α	1'-0"	1'-3"	1'-6"	2'-0"	3'-0"	3'-0"
	В	1'-0"	1'-3"	1'-6"	2'-0"	2'-0"	3'-0"
	С	1'-0"	1'-0"	1'-3"	1'-6"	1'-9"	2'-0"
	Α	2'-0"	2'-6"	4'-0"	5'-0"	8'-0"	9'-0"
TEE	В	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	5'-0"
	С	0'-9"	1'-0"	1'-3"	1'-6"	1'-9"	2'-0"
PLUG	Α	2'-0"	2'-6"	4'-0"	5'-0"	8'-0"	9'-0"
	В	1'-6"	2'-0"	3'-0"	4'-0"	4'-0"	5'-0"
	С	0'-9"	1"-0"	1'-3"	1'-6"	1'-9"	2'-0"
THRUST BLOCK NOTES:							

THRUST BLOCK NOTES:

- 1. 3500 P.S.I CONCRETE POURED AGAINST UNDISTURBED EARTH
- 2. WHEN "A" DIMENSION IS 6 FEET OR GREATER, USE #4 RE-BAR AT 12 INCH CENTERS EACH WAY. 3. THE TABLE IS BASED ON SOIL BEARING OF 1500 P.S.F. THEREFORE, WHEN PLACED IN MUCK, PEAT OR OTHER UNSUITABLE SOILS HAVING A SOIL BEARING LESS THAN 1500 P.S.F., THE CONTRACTOR SHALL PROVIDE SUITABLE ADDITIONAL BLOCKING, ENCASEMENT, OR RESTRAINTS.



STANDARD BEDDING FOR WATER MAIN



TYPICAL L TRENCH DETAIL HOUSE LEADS

	LIMITS OF EXCAVATION JCM 430 JOINT RESTRAINT USED AT ALL EXPOSED JOINTS	— JOINT	
EX.	AC WATER MAIN	EX.	
			FLOWABLE FILL BACKFILLED TO SPRING LINE OF EXISTING

— CONCRETE THRUST BLOCK FIRE PROTECTION RISER

- WELDED

CONNECTION

FIRE DEPARTMENT CONNECTION LABEL DETAIL

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FLANGE X FLANGE RESILIENT -

WEDGE VALVE SAME SIZE AS INCOMING LINE

FINISH FLOOR -

D.I.P. RISER (DOUBLE -CEMENT LINED) TYPICAL

> MECHANICAL JOINTS -AT 90° BEND

RESTRAIN PIPE JOINTS AS-REQUIRED BY INSPECTOR

> THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



ASBESTOS CEMENT (AC) WATER MAIN

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MCA JOB #:1039-18-8756 DATE: 06.19.2023 SCALE: AS SHOWN PER DETAIL

Metro Consultin Associates

COUNTY: WAYNE SHEET: **W2**

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W3