

Mapleton City



Addendum to **APWA**
Standard Drawings
and Specifications

Adopted July 2010

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MAPLETON CITY ADDENDUM TO APWA SPECIFICATIONS

Add these sections to the corresponding APWA sections below:

SECTION 33 11 00, WATER DIST. AND TRANSMISSION; PART 2 PRODUCTS

2.1 PIPES AND FITTINGS

E. All pipe used for culinary water shall be type Ductile Iron. All pipe used for pressurized irrigation shall be type PVC C900 purple unless substitution is approved by the city engineer.

2.8 ACCESSORIES

H. 12 gauge trace wire. All culinary and pressurized irrigation main lines and services shall use trace wire.

MAPLETON CITY ADDENDUM TO APWA SPECIFICATIONS

Add these sections to the corresponding APWA sections below:

SECTION 33 12 16, WATER VALVES; PART 2 PRODUCTS

2.2 GATE VALVES

D. Gate valves shall only be used up to 10 inches in size.

2.3 BUTTERFLY VALVES

D. Butterfly valves shall be used for 10 inches and larger valve sizes.

2.4 CHECK VALVES

E. Check valve 4 inches and larger in size shall be of CLA-VAL manufacture and have epoxy coated chambers with stainless steel tubing and fittings to pilot controls.

2.7 PRESSURE REDUCING VALVES – MAIN LINE

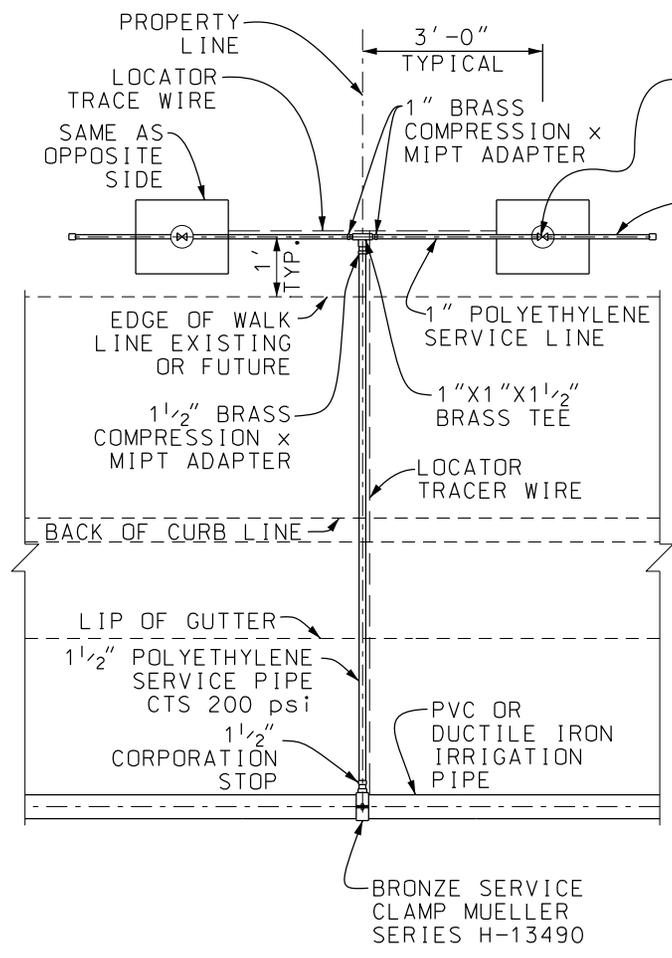
- B. Type: Shall be of CLA-VAL manufacture with epoxy coated chambers hydraulically operated using a direct acting, spring loaded; normally open, with pilot valve controlled diaphragm.
- D. Equip with Y-strainers, stainless steel tubing and fittings on the pilot controls, variable closing and opening speed controls and valve position indicator.

2.8 PRESSURE RELIEF VALVES

- C. Type: Shall be of CLA-VAL manufacture with epoxy coated chambers, hydraulically operated, pilot control using a diaphragm with a single removable seat and resilient disc.
- D. Pilot Controls: Shall have stainless steel tubing and fittings; Direct acting, adjustable between 20 and 200 psi.

2.9 CONTROL VALVE

- A. Type: shall be of CLA-VAL manufacture with epoxy coated chambers, Diaphragm actuated, single seated, composition disc, hydraulically operated globe valve.
- B. Pilot Controls: shall have stainless steel tubing and fittings, externally mounted, four-way, solenoid pilot valve with self cleaning strainers and diaphragm type check valves.



DOUBLE SERVICE CONNECTION

SECONDARY IRRIGATION SERVICE METER
SEE STANDARD DRAWING PRESSURIZED IRRIGATION-02

1" SCHED. 40 PVC SERVICE LINE WITH 1" SCHED. 40 PVC CAP EXTENDED 1'-0" OUTSIDE OF BOX.

IRRIGATION CONNECTION NOTES:

1 1/2" SINGLE SERVICE CONNECTION TO MAIN:

USE MUELLER SERIES H-13490 BRONZE SERVICE CLAMP AND A BRASS COMPRESSION x MIPT ADAPTER. A RIGID LINER SHALL BE USED INSIDE OF TUBING AT THE COMPRESSION FITTINGS ON 2" SINGLE SERVICE LINE

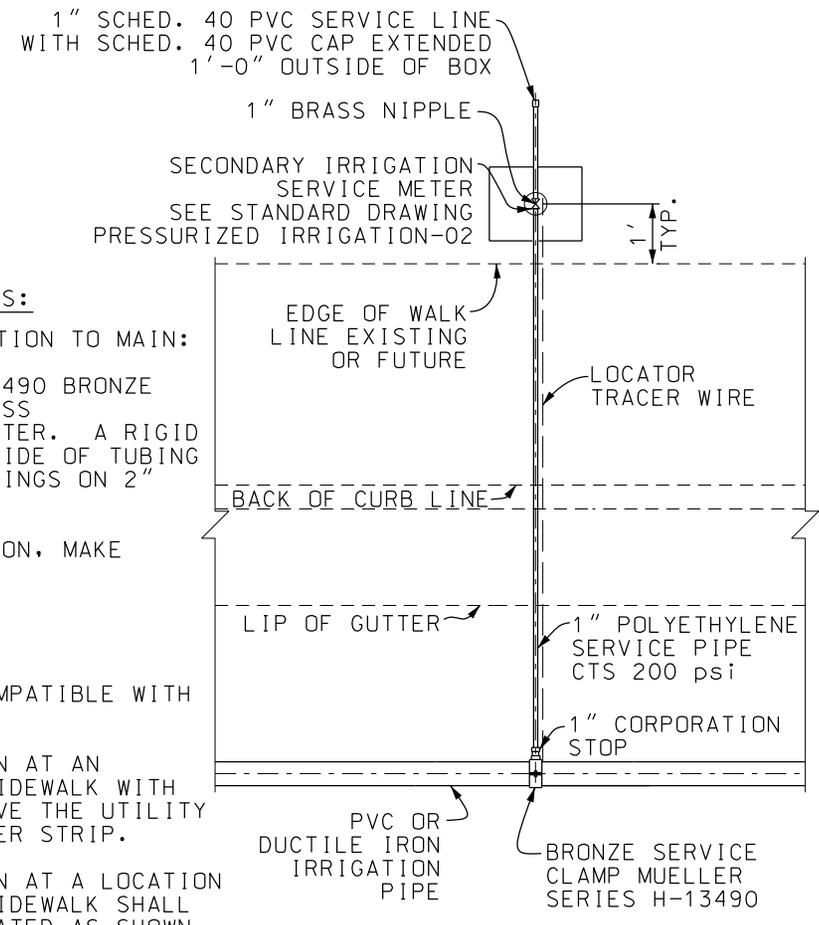
IF MAIN PIPE IS DUCTILE IRON, MAKE DIRECT TAP WITHOUT SADDLE. SEE APWA PLAN 551 & 552.

GENERAL:

ALL FITTINGS SHALL BE COMPATIBLE WITH SERVICE SIZE.

SERVICE LINE INSTALLATION AT AN EXISTING CURB GUTTER & SIDEWALK WITH A PLANTER STRIP SHALL HAVE THE UTILITY BOX LOCATED IN THE PLANTER STRIP.

SERVICE LINE INSTALLATION AT A LOCATION WITH NO CURB, GUTTER & SIDEWALK SHALL HAVE THE UTILITY BOX LOCATED AS SHOWN ON PLANS.



SINGLE SERVICE CONNECTION

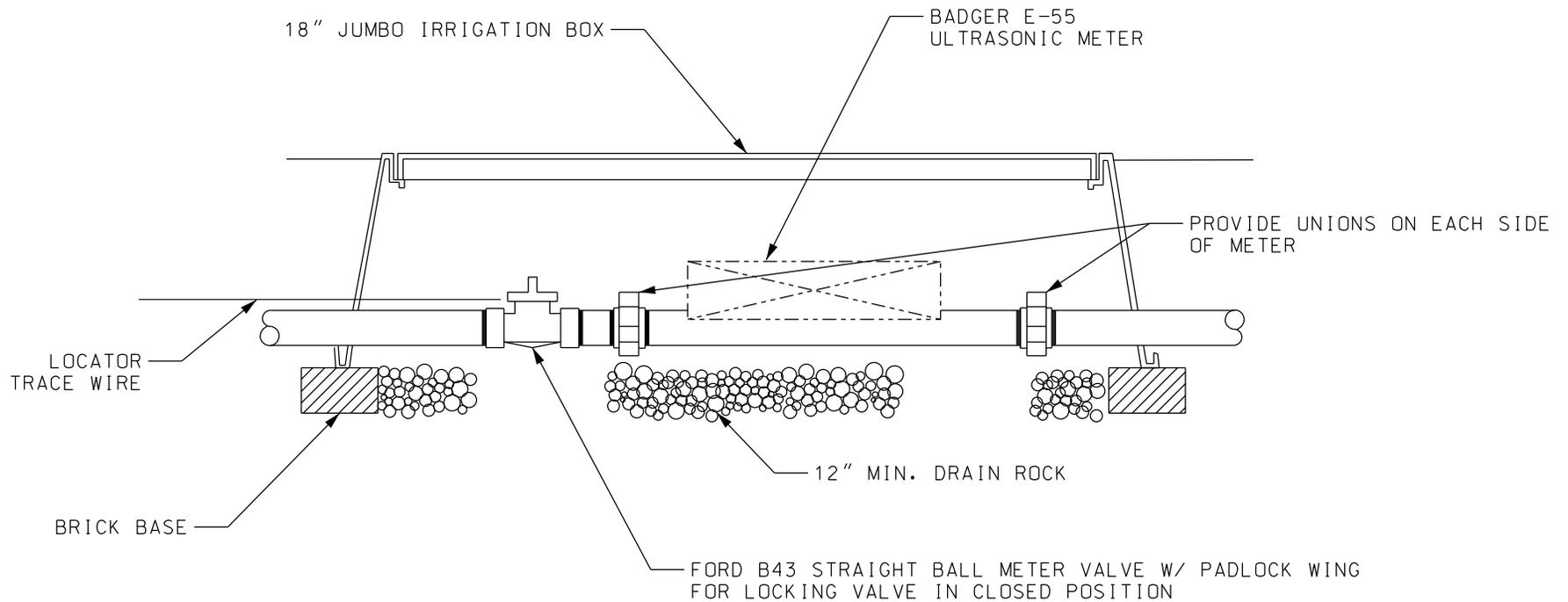
SECONDARY IRRIGATION SERVICE CONNECTION

MAPLETON CITY STANDARD

MAPLETON CITY CORPORATION

Standard Drawing Addendum
PRESSURIZED IRRIGATION-01

ADOPTED JULY 2010

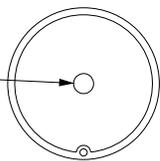


SECONDARY IRRIGATION SERVICE METER
MAPLETON CITY STANDARD

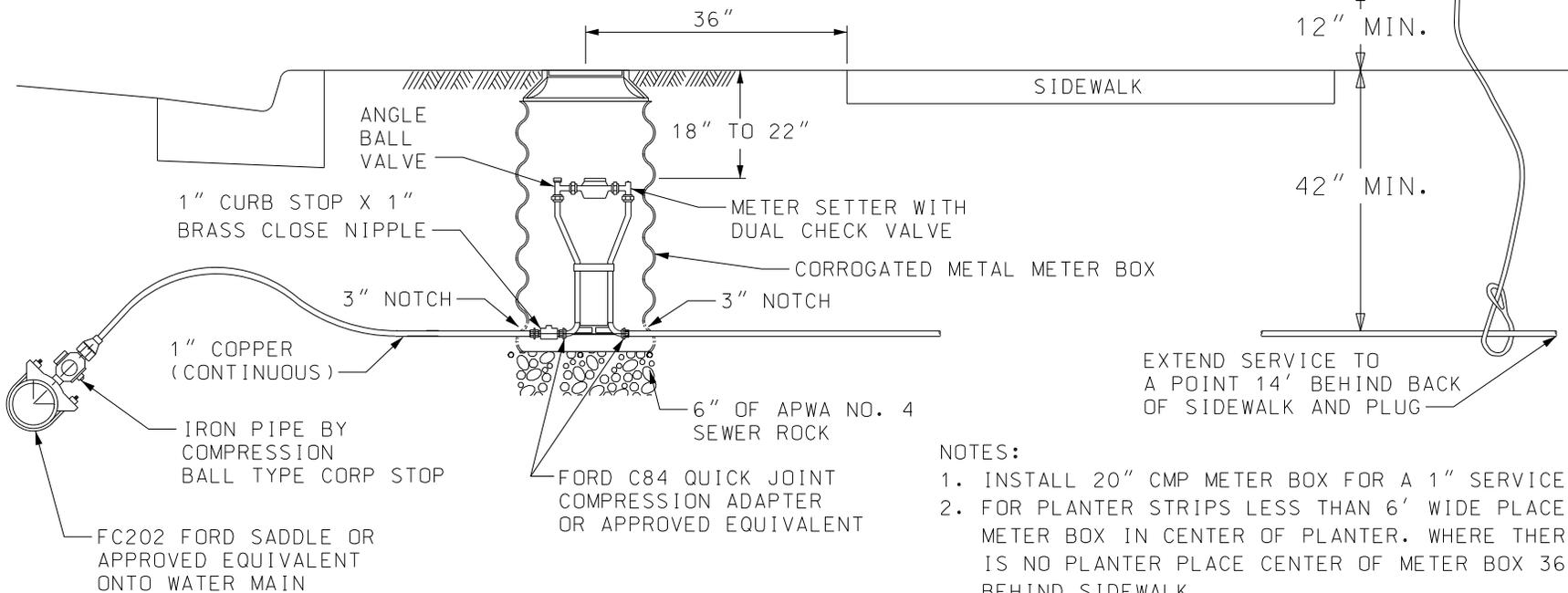
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PRESSURIZED IRRIGATION-02
ADOPTED MAY 2013

D&L #L2242 OR APPROVED EQUIVALENT
 METER BOX LID WITH 1 $\frac{7}{8}$ " HOLE
 AND LABEL READING "WATER METER"



RADAR ENGINEERS MODEL 600
 BLUE BURIED PIPE MARKERS
 OR APPROVED EQUIVALENT



- NOTES:
1. INSTALL 20" CMP METER BOX FOR A 1" SERVICE
 2. FOR PLANTER STRIPS LESS THAN 6' WIDE PLACE METER BOX IN CENTER OF PLANTER. WHERE THERE IS NO PLANTER PLACE CENTER OF METER BOX 36" BEHIND SIDEWALK.
 3. TRAFFIC RATED METER BOX LIDS MAY ONLY BE USED WHEN AUTHORIZED BY THE CITY OR BY THE CITY ENGINEER OR HIS / HER DESIGNEE. WHEN AUTHORIZED USE D&L #B5020 OR APPROVED EQUIVALENT FOR 1" SERVICES AND SEE STANDARD FOR 2" WATER SERVICE FOR A 1 $\frac{1}{2}$ " SERVICE.

TYPICAL WATER SERVICE CONNECTION

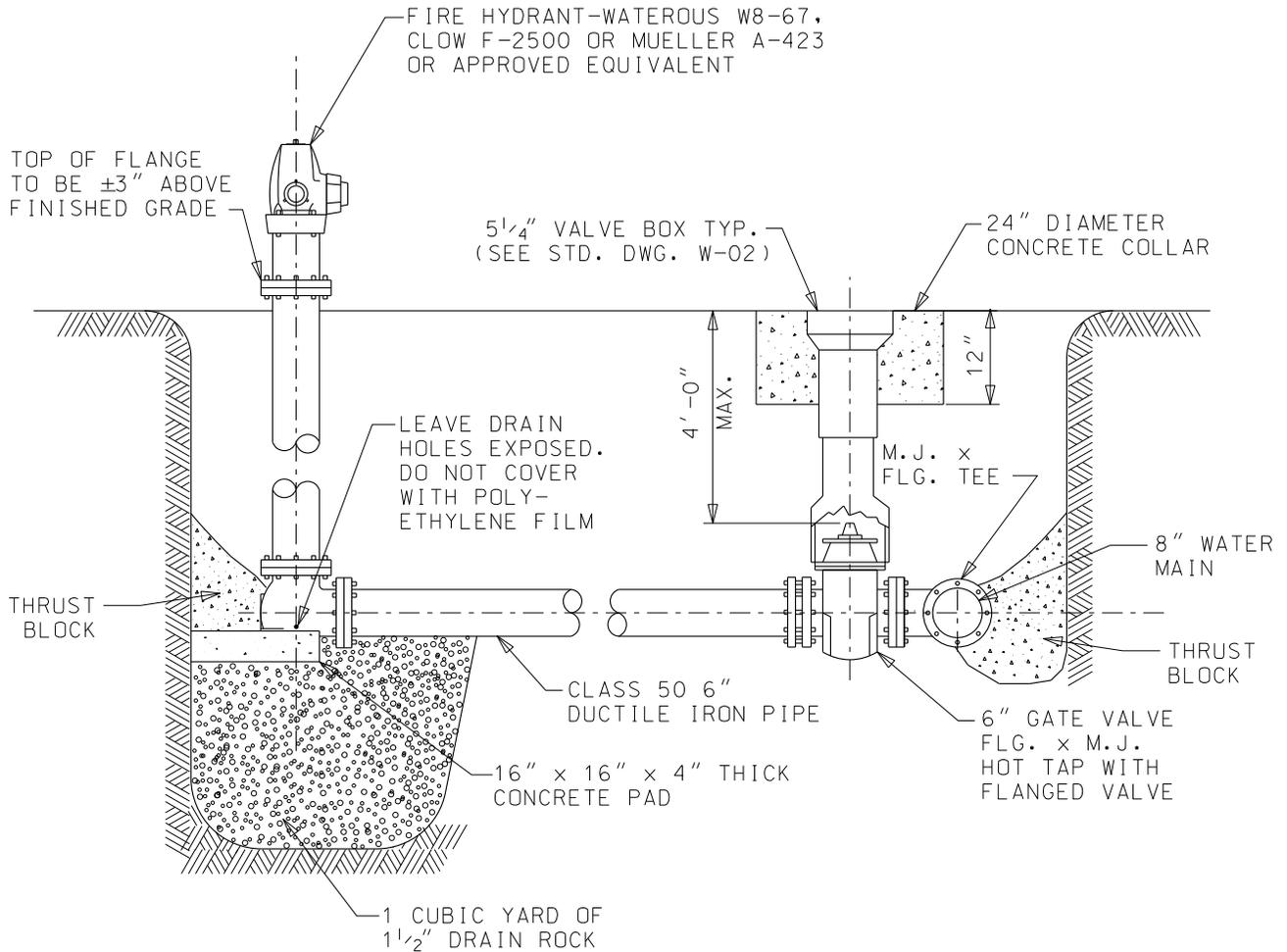
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Standard Drawing Addendum

WATER-01

ADOPTED JULY 2010

NOTE:
 ALL COMPRESSION COUPLINGS,
 MECHANICAL JOINTS, FLANGED
 JOINTS, AND VALVES EXPOSED
 TO SOIL SHALL BE WRAPPED
 WITH 8 MIL. THICK POYETHYLENE
 FILM.



*NOTE:
 IF VALVE NUT IS MORE THAN 4'
 BELOW THE VALVE COVER A VALVE
 RISER WILL BE REQUIRED TO MEET
 THE 4' REQUIREMENT

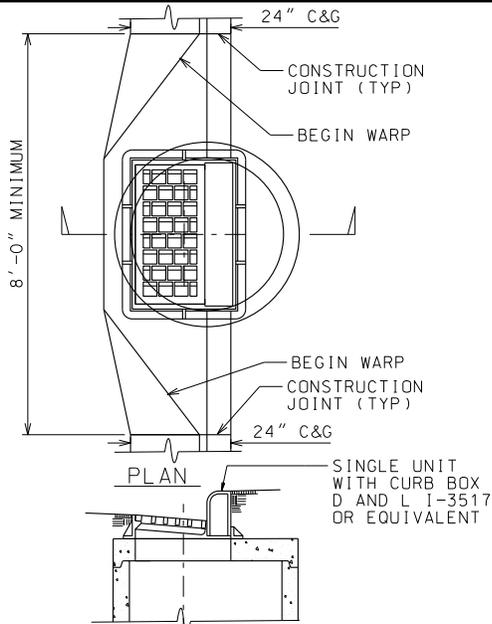
FIRE HYDRANT W/VALVE CONNECTION IN STREET
 MAPLETON CITY STANDARD

MAPLETON CITY
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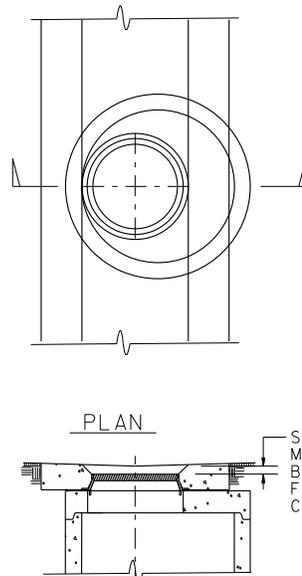
Standard Drawing Addendum

WATER-02

ADOPTED JULY 2010



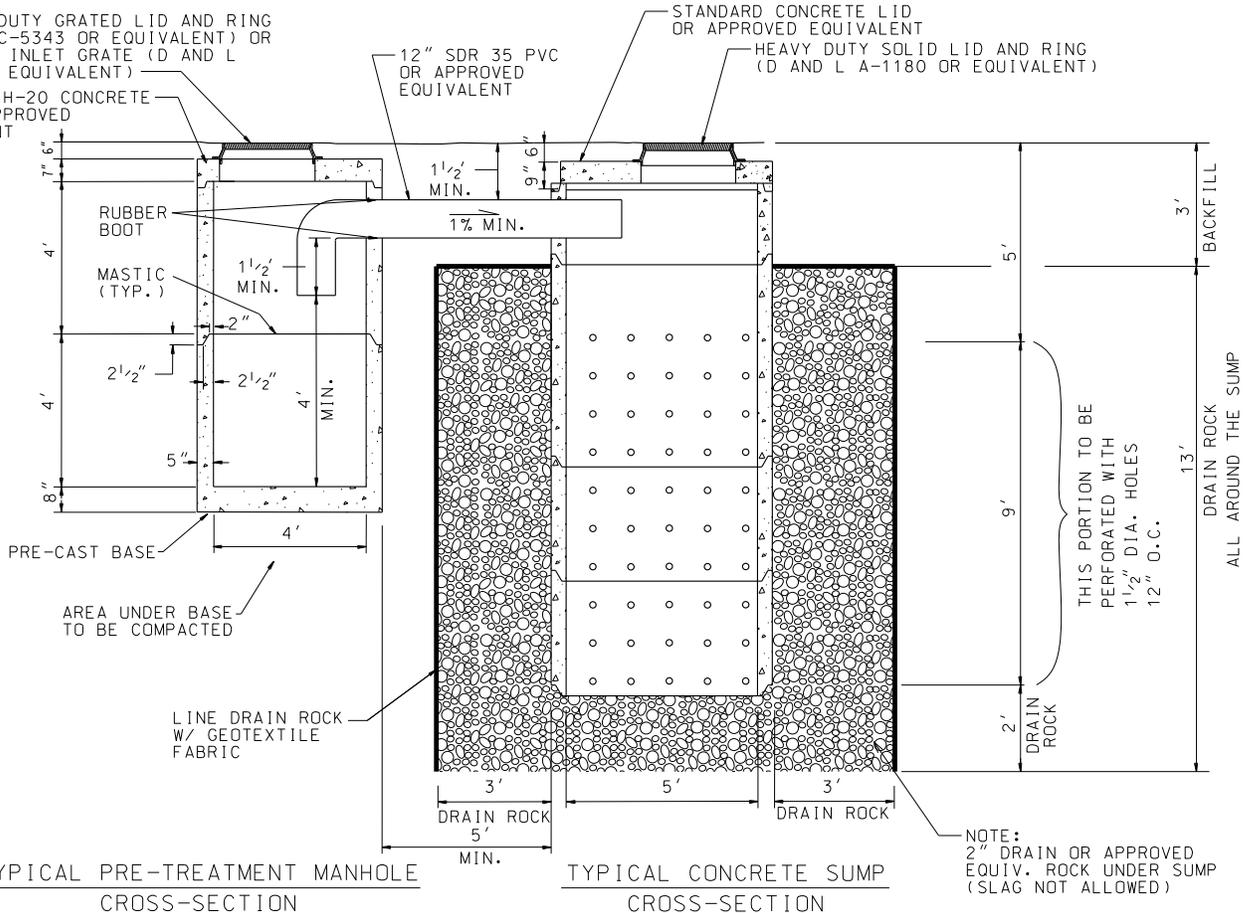
TYPICAL PRE-TREATMENT MANHOLE
SET IN CURB AND GUTTER
CROSS-SECTION



TYPICAL PRE-TREATMENT MANHOLE
SET IN CROSS-GUTTER
CROSS-SECTION

- NOTES:
1. MANHOLE BASE AND ALL SECTIONS SHALL BE PRECAST TO CONFORM TO ASTM C478.
 2. THE SUMP SHALL BE 5' DIAM. CONCRETE.
 3. THE PRE-TREATMENT MANHOLE SHALL BE CONSTRUCTED TO ENSURE WATER-TIGHTNESS.
 4. THE SUMP SHALL BE LOCATED 5' OFFSET FROM MANHOLE PERPENDICULAR TO GUTTER ALIGNMENT.
 5. THE SUMP LID SHALL NOT BE LOCATED IN THE SIDEWALK SECTION.
 6. ANY APPROVED EQUIVALENTS REQUIRE CITY ENGINEER WRITTEN APPROVAL.
 7. ** D AND L I-3517 OR APPROVED EQUIVALENT IS PREFERRED FOR CURB-FACE INLETS.

** HEAVY DUTY GRATED LID AND RING (D AND L C-5343 OR EQUIVALENT) OR CURB FACE INLET GRATE (D AND L I-3517 OR EQUIVALENT)
STANDARD H-20 CONCRETE LID OR APPROVED EQUIVALENT



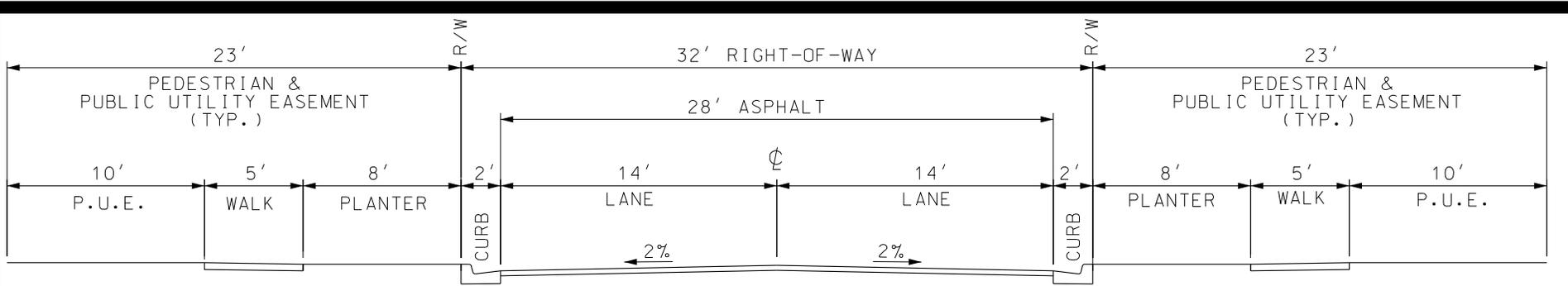
TYPICAL PRE-TREATMENT MANHOLE
CROSS-SECTION

TYPICAL CONCRETE SUMP
CROSS-SECTION

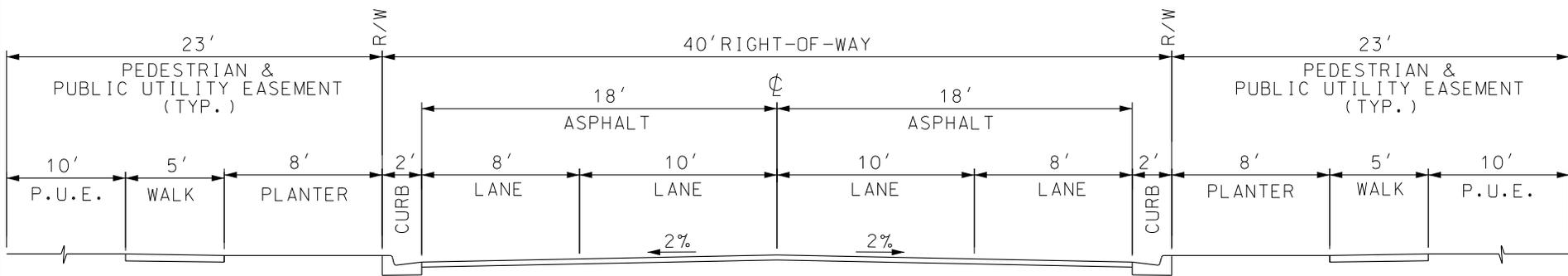
PRE-TREATMENT SUMP
MAPLETON CITY STANDARD

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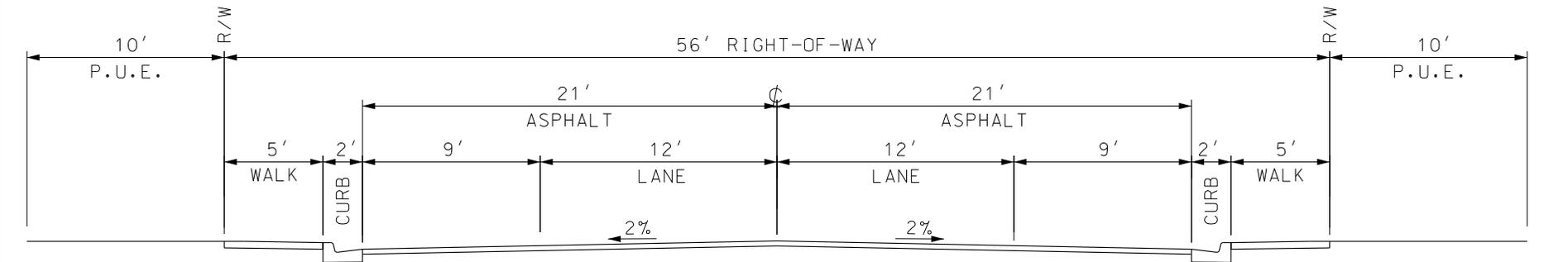
Standard Drawing Addendum
STORM DRAIN-01
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32' SECTION MINOR LOCAL



40' SECTION MINOR LOCAL



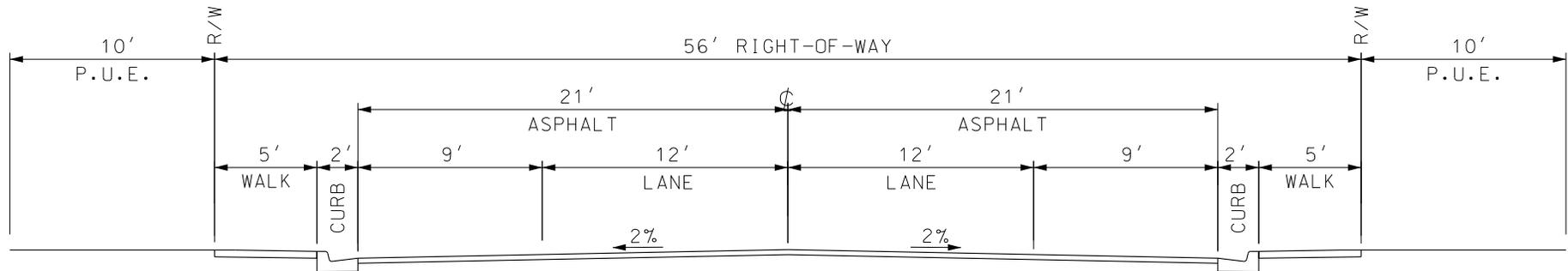
56' SECTION MINOR LOCAL

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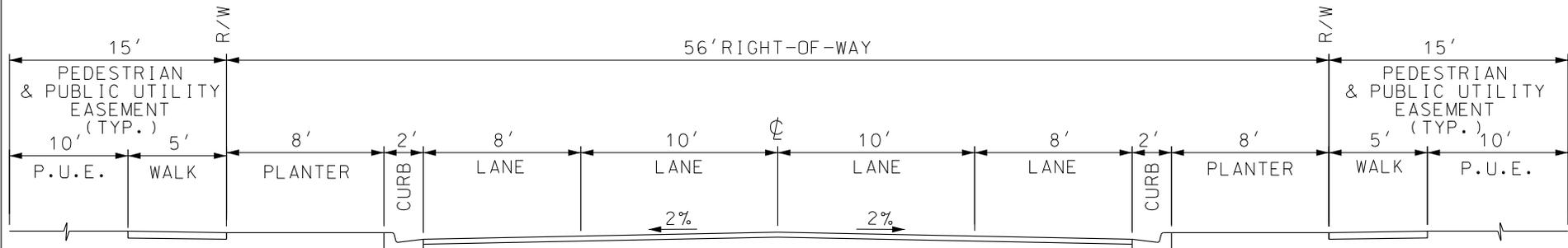
Standard Drawing Addendum

STREET-01

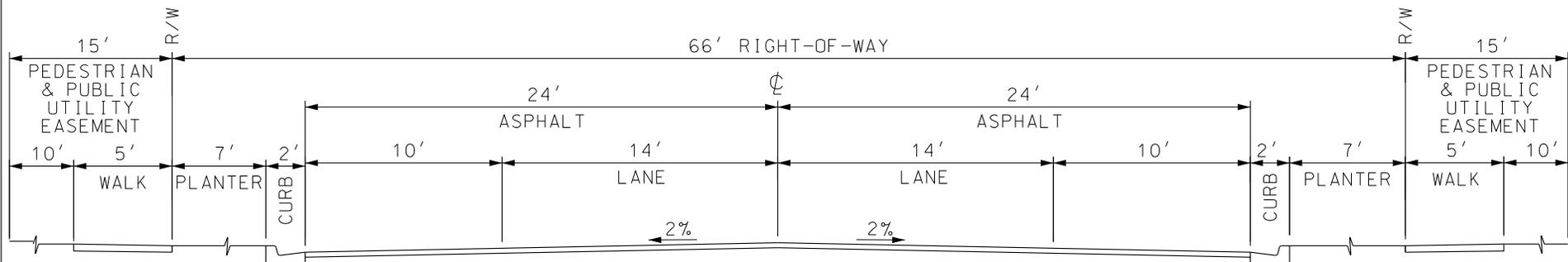
ADOPTED JULY 2010



56' SECTION MAJOR LOCAL (TRADITIONAL)



56' SECTION MAJOR LOCAL (OPTIONAL)



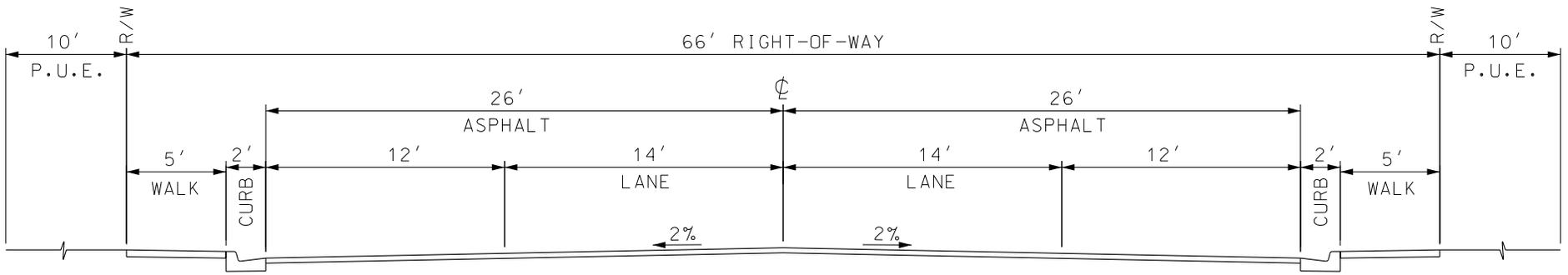
66' SECTION MAJOR LOCAL (OPTIONAL)

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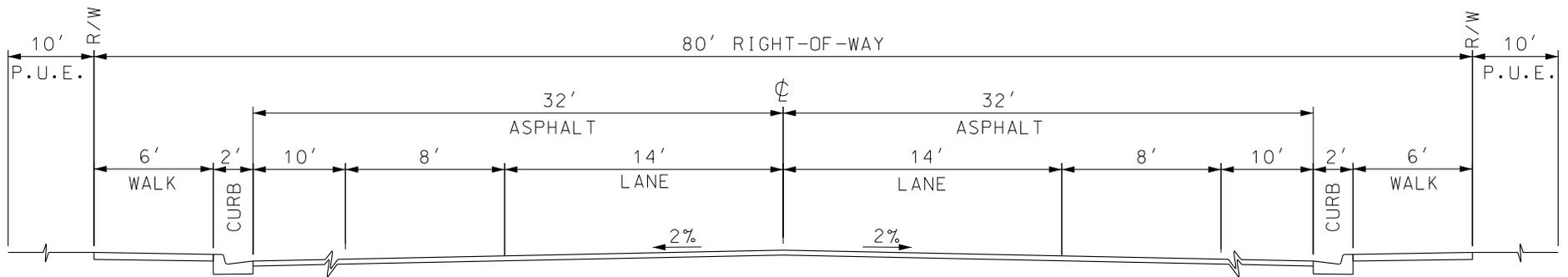
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STREET-02

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66' SECTION COLLECTOR (TRADITIONAL)



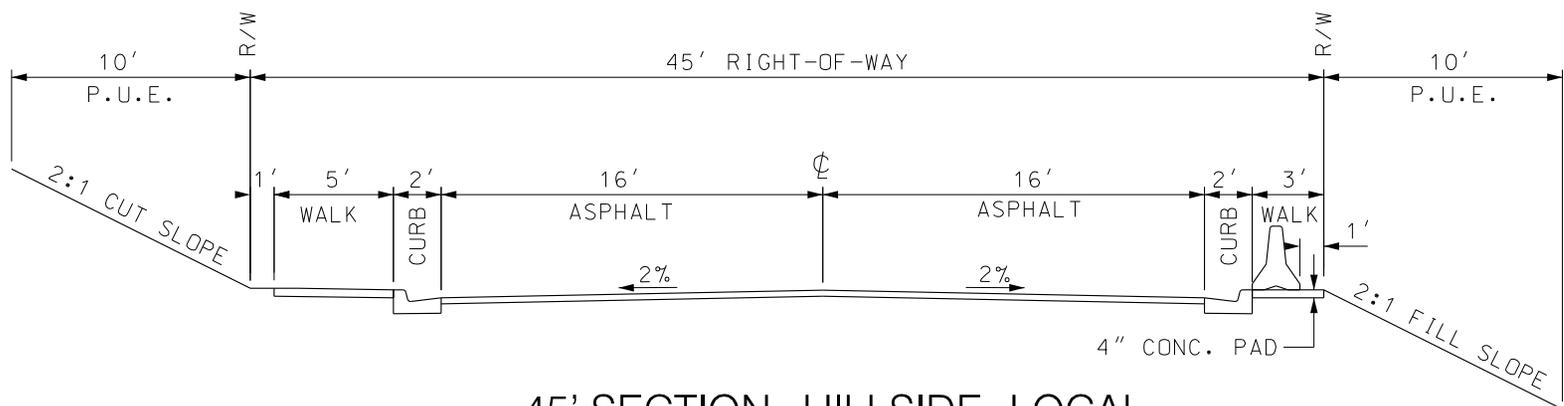
80' SECTION COLLECTOR (OPTIONAL)

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STREET-03

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45' SECTION HILLSIDE LOCAL

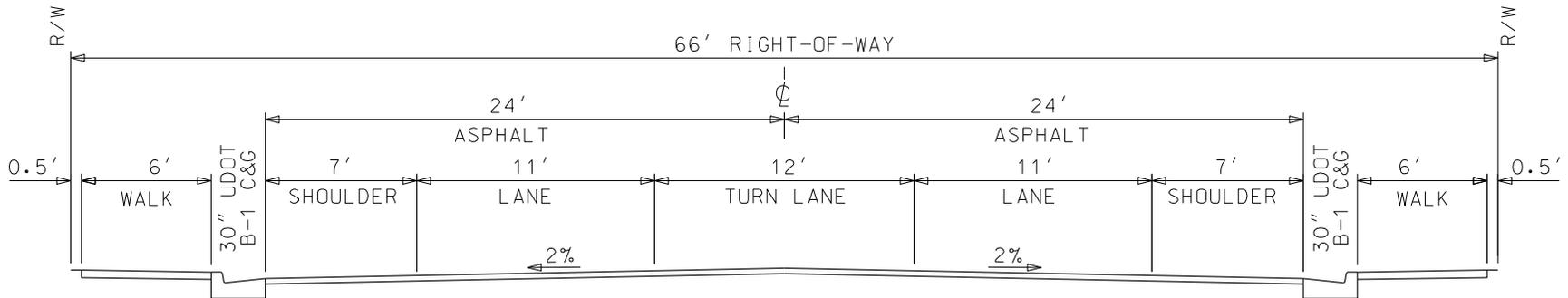
NOTE:
SIDEWALK ON UPHILL SIDE.

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Standard Drawing Addendum

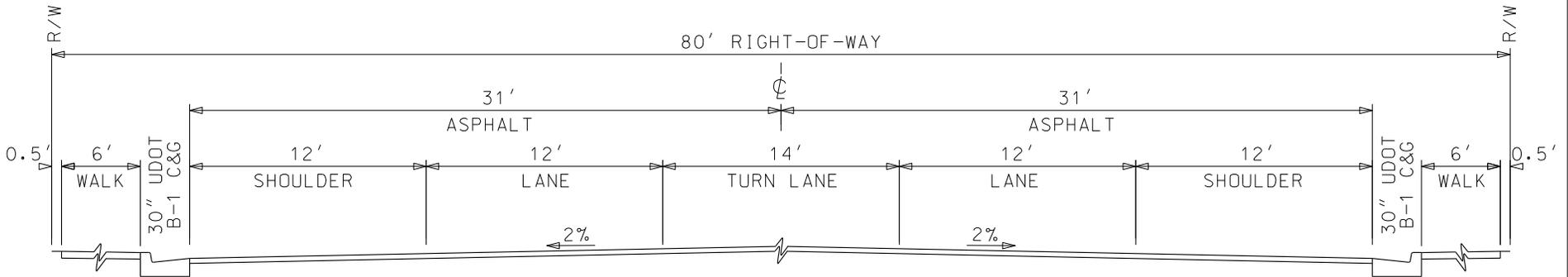
STREET-04

ADOPTED JULY 2010



66' SECTION

UDOT
 S.R. - 147
 1600 SOUTH - HWY 89 TO MAIN STREET
 MAIN STREET - 1600 SOUTH TO MAPLE STREET



80' SECTION

UDOT
 S.R. - 147
 MAPLE STREET - HWY 89 TO MAIN STREET

NOTES:

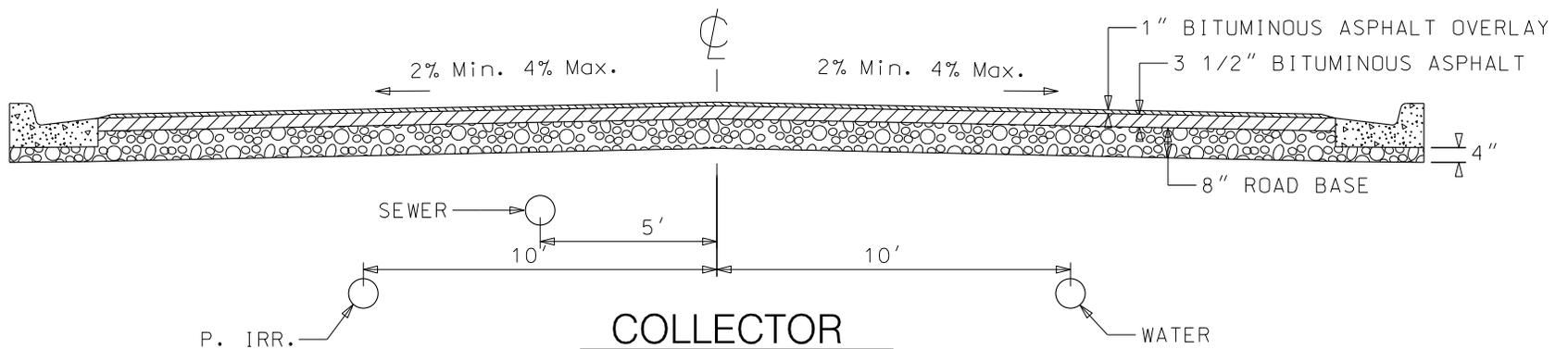
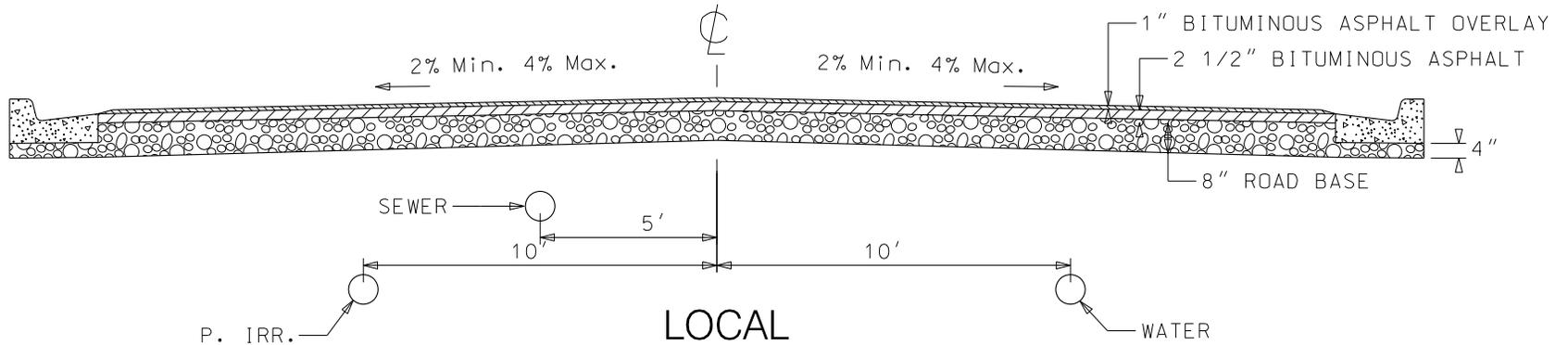
- UDOT SPECIFICATIONS REQUIRED
- BITUMINOUS SURFACE COURSE - 6" MIN.
- UNTREATED BASE COURSE - 12" MIN.

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STREET-05

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NOTES:

- BITUMINOUS OVERLAY - 1"
- BITUMINOUS SURFACE COURSE - 2 1/2" LOCAL
3 1/2" COLLECTOR
- UNTREATED BASE COURSE - 8" MIN.
- SUB-BASE - TO BE DETERMINED BY CBR TEST AND CITY ENGINEER.

NOTES:

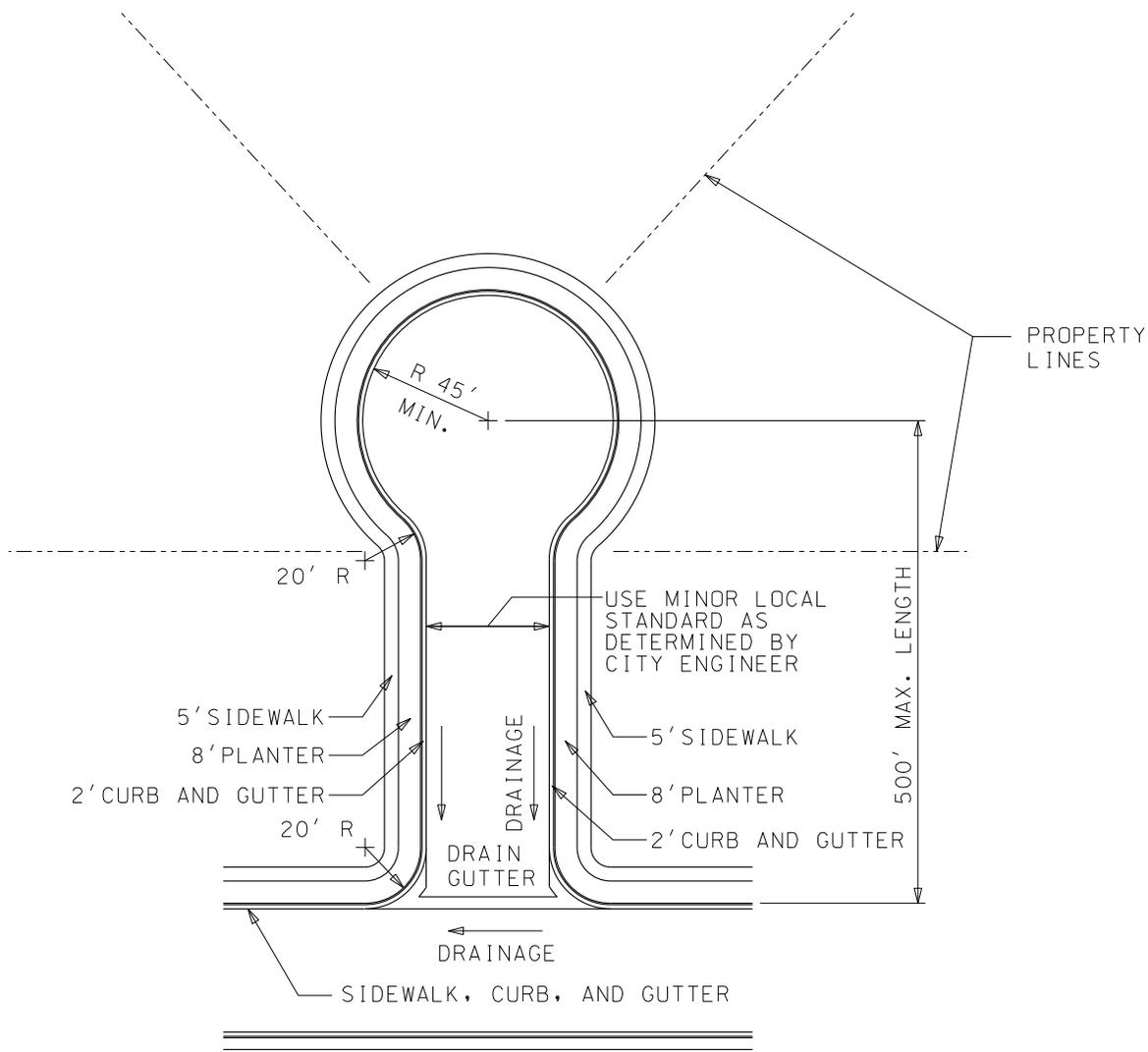
- WATER = 10' EAST & NORTH OF ϕ
- PRESSURE IRR. = 10' WEST & SOUTH OF ϕ
- SEWER = 5' SOUTH & WEST OF ϕ
- P.U.E. TO BE USED BY GAS,
ELECTRIC, AND COMMUNICATIONS.

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STREET-10

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CUL-DE-SAC

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STREET-20
ADOPTED JULY 2010

CURVE TABLES (90° DEFLECTION)

ASPHALT 32'		CENTER OFFSET 27'-3"		
CURVE	RADIUS	DELTA	LENGTH	CHORD
1&2	62.00'	25° 31' 08"	27.61'	27.39'
3	48.00'	141° 02' 17"	118.16'	90.50'
4	30.00'	90° 00' 00"	47.12'	42.43'
5	48.00'	90° 00' 00"	75.40'	67.88'

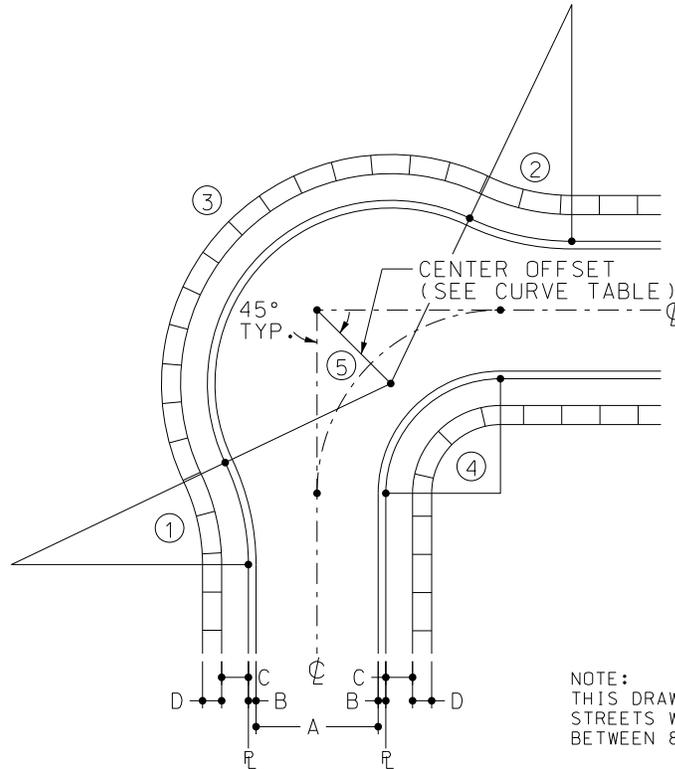
ASPHALT 32'		CENTER OFFSET 3'-10"		
CURVE	RADIUS	DELTA	LENGTH	CHORD
1&2	60.00'	42° 47' 59"	44.82'	43.79'
3	50.00'	175° 35' 59"	153.24'	99.93'
4	28.00'	90° 00' 00"	43.98'	39.60'
5	46.00'	90° 00' 00"	72.26'	65.05'

ASPHALT 36'		CENTER OFFSET 27'-3"		
CURVE	RADIUS	DELTA	LENGTH	CHORD
1&2	60.00'	25° 31' 08"	26.72'	26.50'
3	50.00'	141° 02' 17"	123.08'	94.28'
4	28.00'	90° 00' 00"	43.98'	39.60'
5	48.00'	90° 00' 00"	75.40'	67.88'

ASPHALT 36'		CENTER OFFSET 3'-10"		
CURVE	RADIUS	DELTA	LENGTH	CHORD
1&2	58.00'	42° 47' 59"	43.33'	42.33'
3	52.00'	175° 35' 59"	159.37'	103.92'
4	26.00'	90° 00' 00"	40.84'	36.77'
5	46.00'	90° 00' 00"	72.26'	65.05'

LEGEND

NO.	A	B	C	D
DESCRIPTION	ASPHALT	CURB & GUTTER	PLANTER	SIDEWALK
40' SECTION	36'	2'	8'	5'
56' SECTION	32'	2'	10'	5'
50' SECTION MINOR LOCAL (TRADITIONAL)	36'	2'	0'	5'
50' SECTION MINOR LOCAL (OPTIONAL)	32'	2'	7'	5'



NOTE:
THIS DRAWING IS FOR USE ON RESIDENTIAL
STREETS WITH CENTERLINE DEFLECTIONS
BETWEEN 80 AND 100 DEGREES.

RIGHT ANGLE CORNER BULB

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Standard Drawing Addendum

STREET - 30
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