STANDARD PLANS

August, 2008

Approved and adopted by the City of Clayton City Council on September 16, 2008
Resolution No. 51 - 2008

CITY OF CLAYTON
6000 HERITAGE TRAIL
CLAYTON, CA 94517
(925) 673-7300

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L-8 Hiking Trail

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L-10 Removable Metal Bollard

L11 Sign – No Dumping/No Motor Vehicles

L12 Split Rail Fence

T – Series (Town Center)

Plan # Title

T-1 Electrolier Detail Within Town Center Area

T-2 Textured Concrete Sidewalk Within Town Center Area

T-3 Raised Masonry Planters Within town Center Area

C3 – Series (Stormwater Treatment)

Note: These details are provided for design guidance only and are based upon the C.3 guidelines in effect at the present time (August, 2008). It is the responsibility of the designer to insure that the construction details used are in conformance with the latest stormwater treatment requirements and regulations.

Plan # Title

C3-1 Biofiltration Planter

C3-2 Vegetated Swale Detail

C3-3 Infiltration Trench Detail

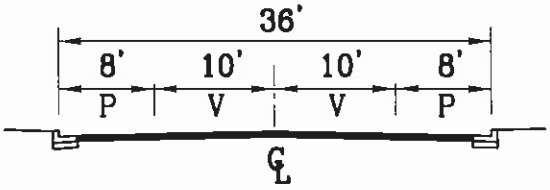
C3-4 Drywell Detail

C3-5 Infiltration Basin Detail

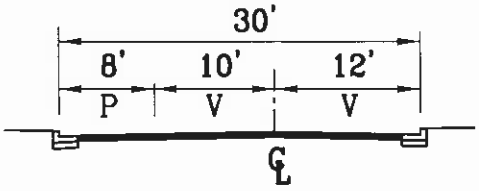
S – Series

(Streetwork)

CUL-DE-SAC, LANE, PLACE, MINOR STS.
(1 TO 80 UNITS)



PARKING BOTH SIDES



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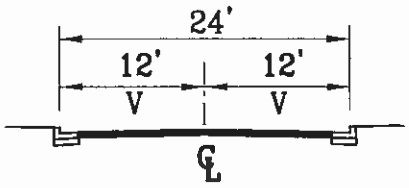
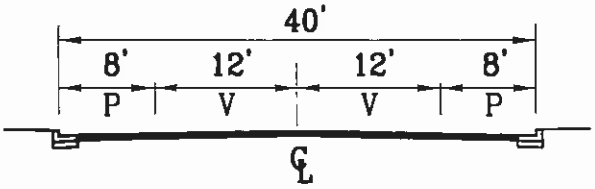


NO PARKING

COLLECTOR STREETS
(81 TO 300 UNITS)



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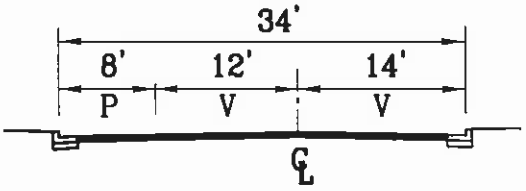

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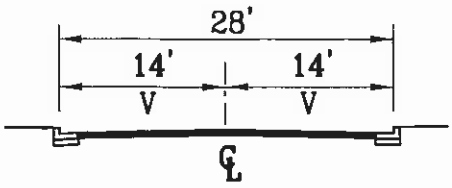

NO PARKING

LEGEND:

P PARKING
V VEHICLE
℄ CENTER LINE

RIGHT OF WAY WIDTHS AND SIDEWALK REQUIREMENTS TO BE DETERMINED BY THE CITY ENGINEER.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

TYPICAL WIDTH ALTERNATIVES RESIDENTIAL (PUBLIC AND PRIVATE)

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

SHEET 1 OF 1

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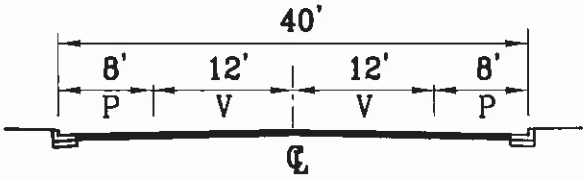
FRI, SEP 05, 2008 10:09 A BJB S-1 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-01 STREET WIDTHS.DWG

MINOR, CUL-DE-SAC
LIGHT & MEDIUM COMMERCIAL & INDUSTRIAL

COLLECTOR STREETS



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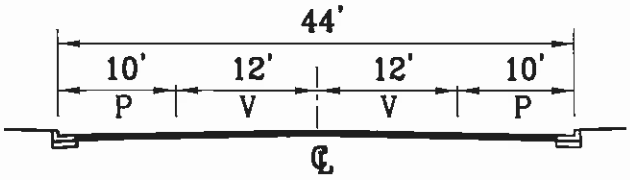

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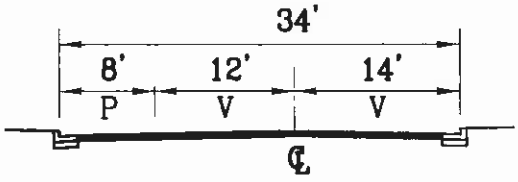

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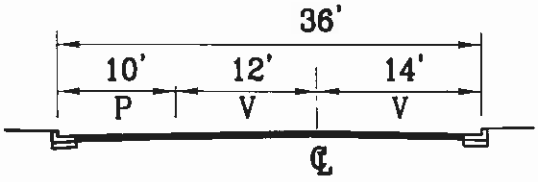

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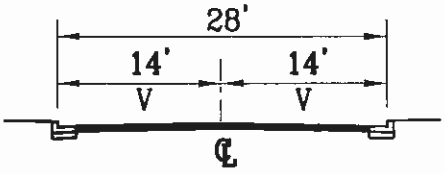

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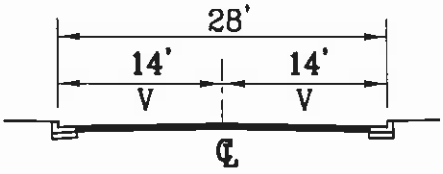

NO PARKING

LEGEND:

P PARKING
V VEHICLE
℄ CENTER LINE

RIGHT OF WAY WIDTHS AND SIDEWALK REQUIREMENTS TO BE DETERMINED BY THE CITY ENGINEER.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

TYPICAL WIDTH ALTERNATIVES COMMERCIAL AND INDUSTRIAL (PUBLIC AND PRIVATE)

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

SHEET 1 OF 1

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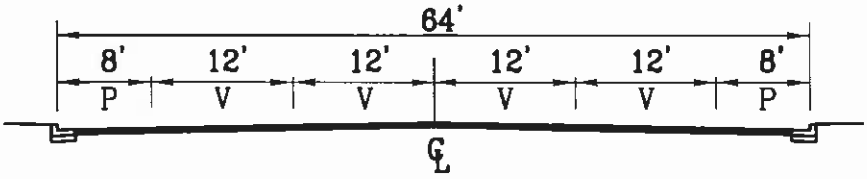
FRI, SEP 05, 2008 10:11 A BJB S-2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-02 STREET WIDTHS.DWG

MAJOR STREETS



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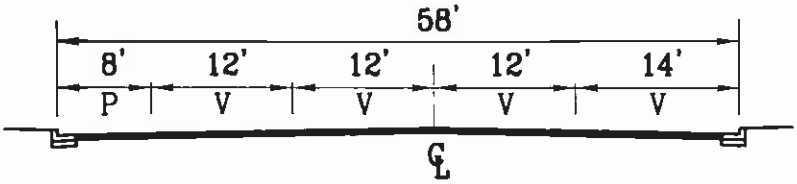
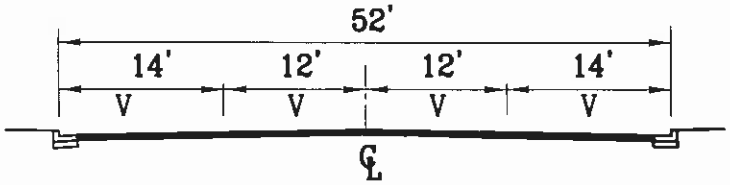


PARKING ONE SIDE



NO PARKING

LEGEND:

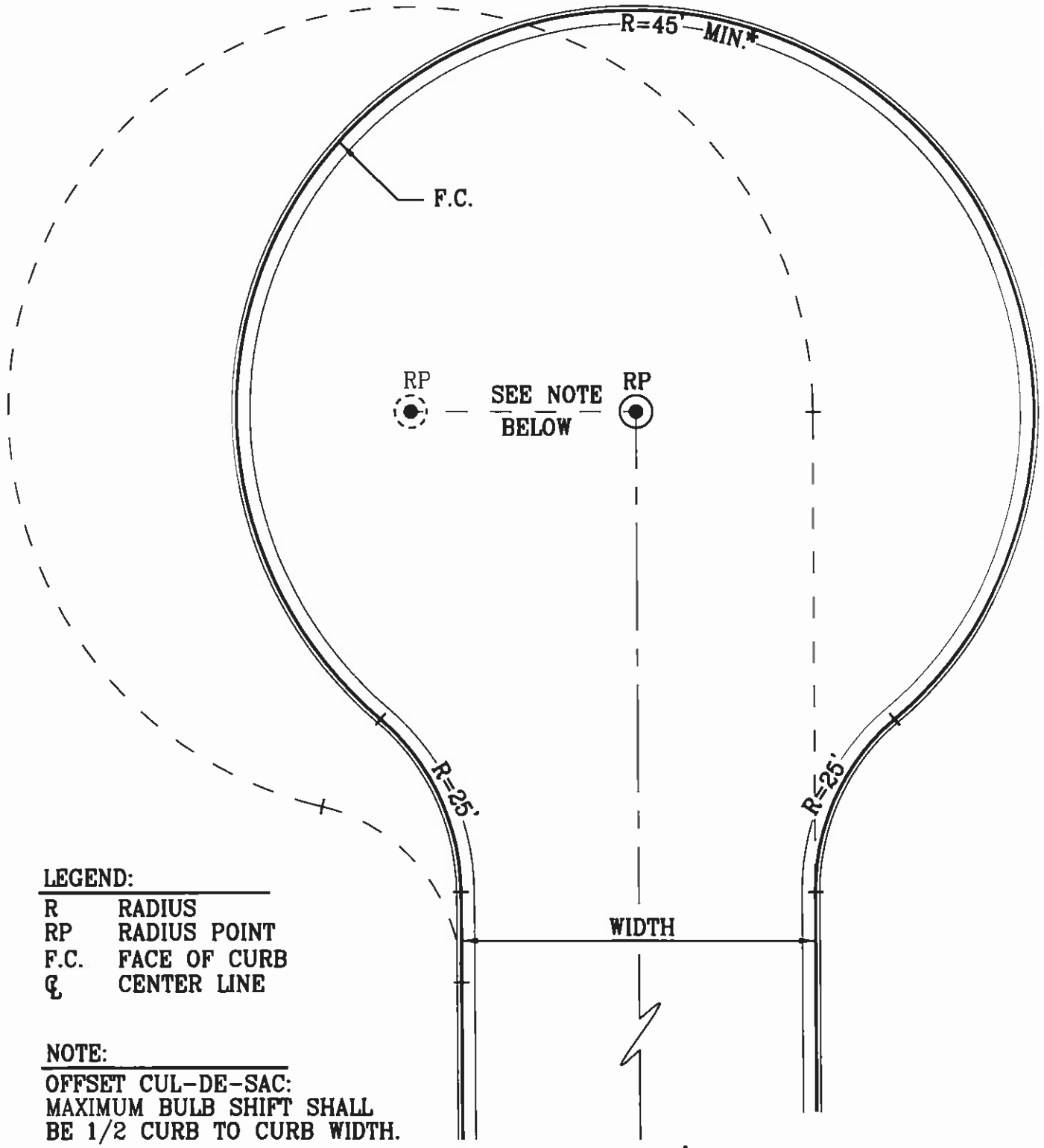
P PARKING
V VEHICLE
℄ CENTER LINE

RIGHT OF WAY WIDTHS AND SIDEWALK REQUIREMENTS TO BE DETERMINED BY THE CITY ENGINEER. MEDIAN ISLANDS OF VARIOUS WIDTHS MAY BE REQUIRED BY THE CITY ENGINEER.

CITY OF CLAYTON
Founded 1857 ...Incorporated 1964

TYPICAL WIDTH ALTERNATIVES MAJOR STREETS		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-3
APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 10:11 A BJB S-3 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-03 STREET WIDTHS.DWG



LEGEND:

R	RADIUS
RP	RADIUS POINT
F.C.	FACE OF CURB
℄	CENTER LINE

NOTE:

OFFSET CUL-DE-SAC:
MAXIMUM BULB SHIFT SHALL BE 1/2 CURB TO CURB WIDTH.

* UNLESS OTHERWISE APPROVED BY CONTRA COSTA FIRE PROTECTION AGENCY.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

CUL-DE-SAC
RESIDENTIAL/MINOR STREET

SHEET 1 OF 1

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

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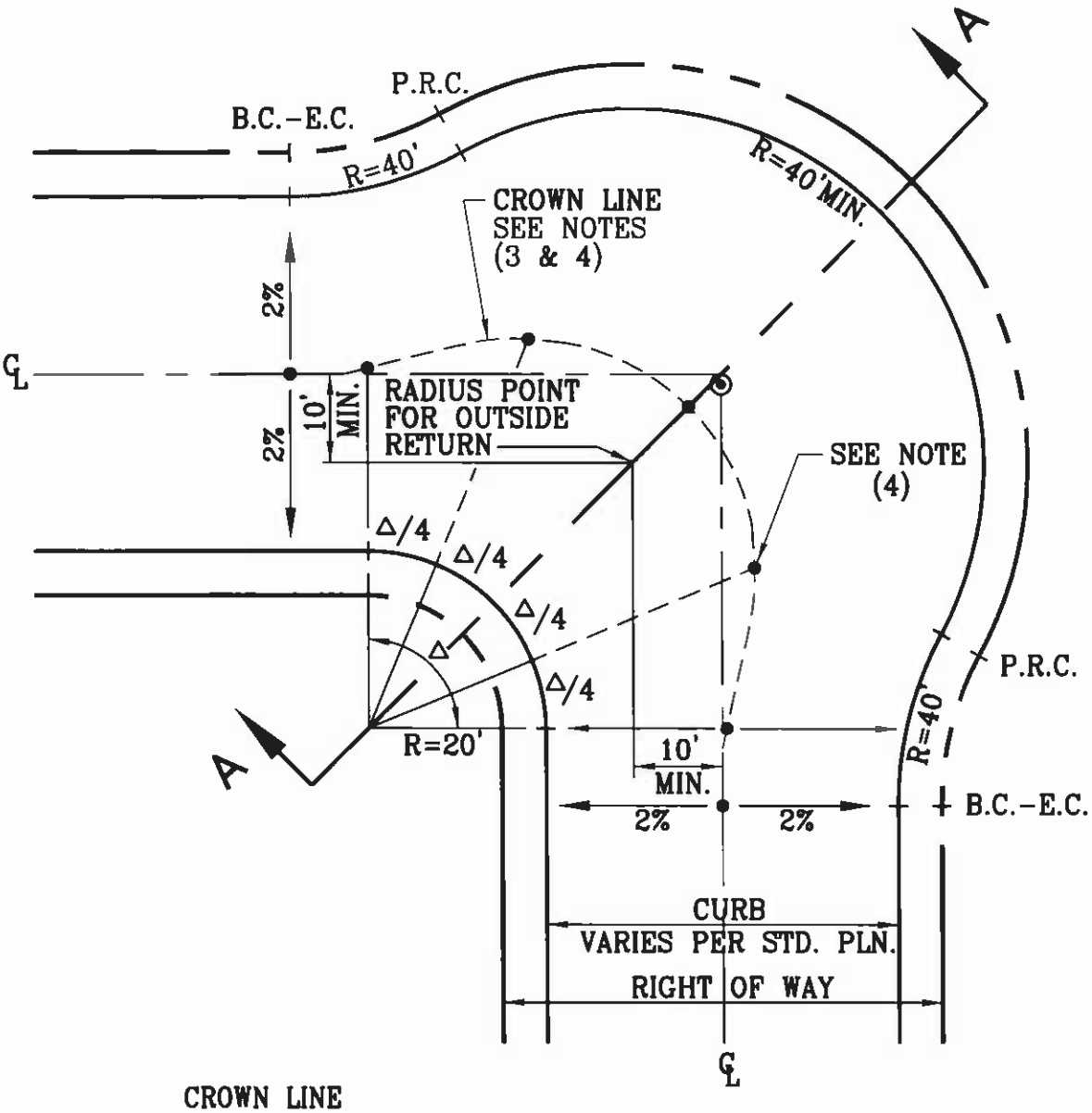
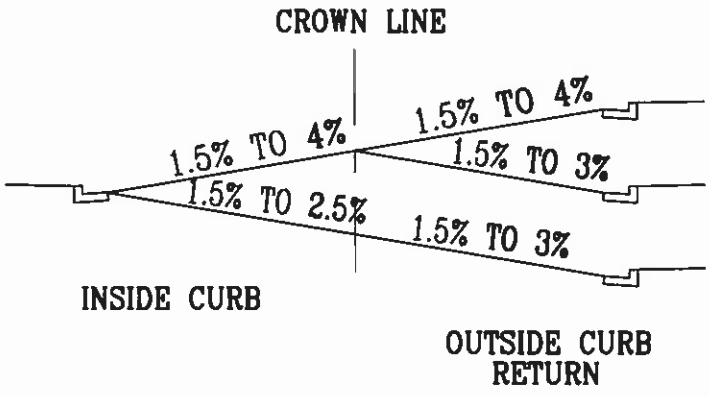
TUE, SEP 09, 2008 06:16 A BJB S-4 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-04 CUL-DE-SAC.DWG





SECTION A – A
MAXIMUM AND MINIMUM CROSS SLOPES

NOTES:

1) MINIMUM Δ=60°; MAXIMUM Δ=100°
2) MINIMUM CURB LONGITUDINAL SLOPE =0.5%.
3) CROWN LINE LIES MIDWAY BETWEEN OUTSIDE AND INSIDE RETURNS; ALONG THE LINE RADIAL TO INSIDE RETURN.
4) • CROWN LINE ELEVATION TO BE SHOWN ON PLANS.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

STANDARD STREET KNUCKLE
RESIDENTIAL / MINOR STREET

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

SHEET 1 OF 1

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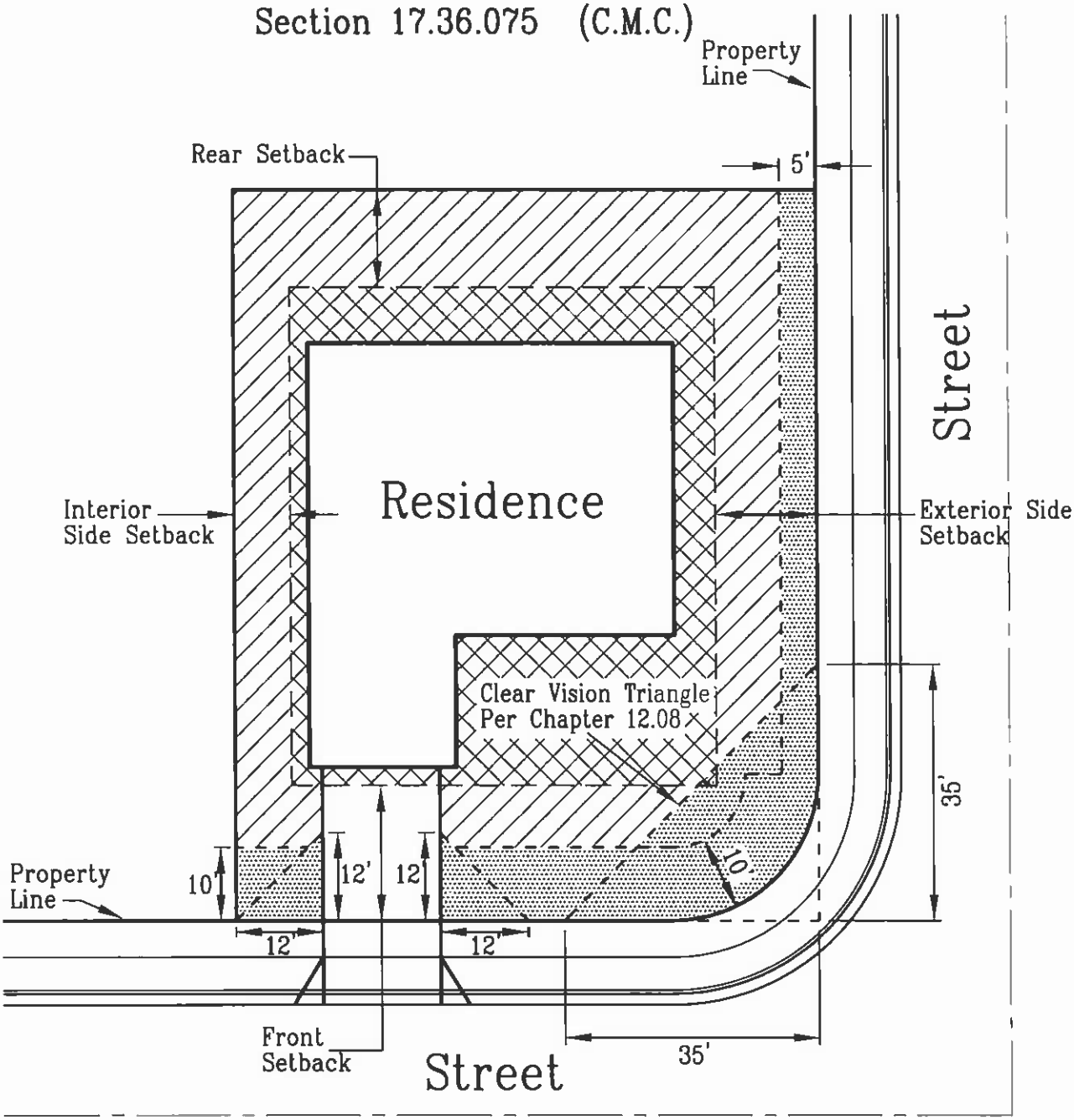
FRI, SEP 05, 2008 10:14 A BJB S-5 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-05 KNUCKLE.DWG

FENCE HEIGHTS
Section 17.36.075 (C.M.C.)



30" Maximum Fence Height

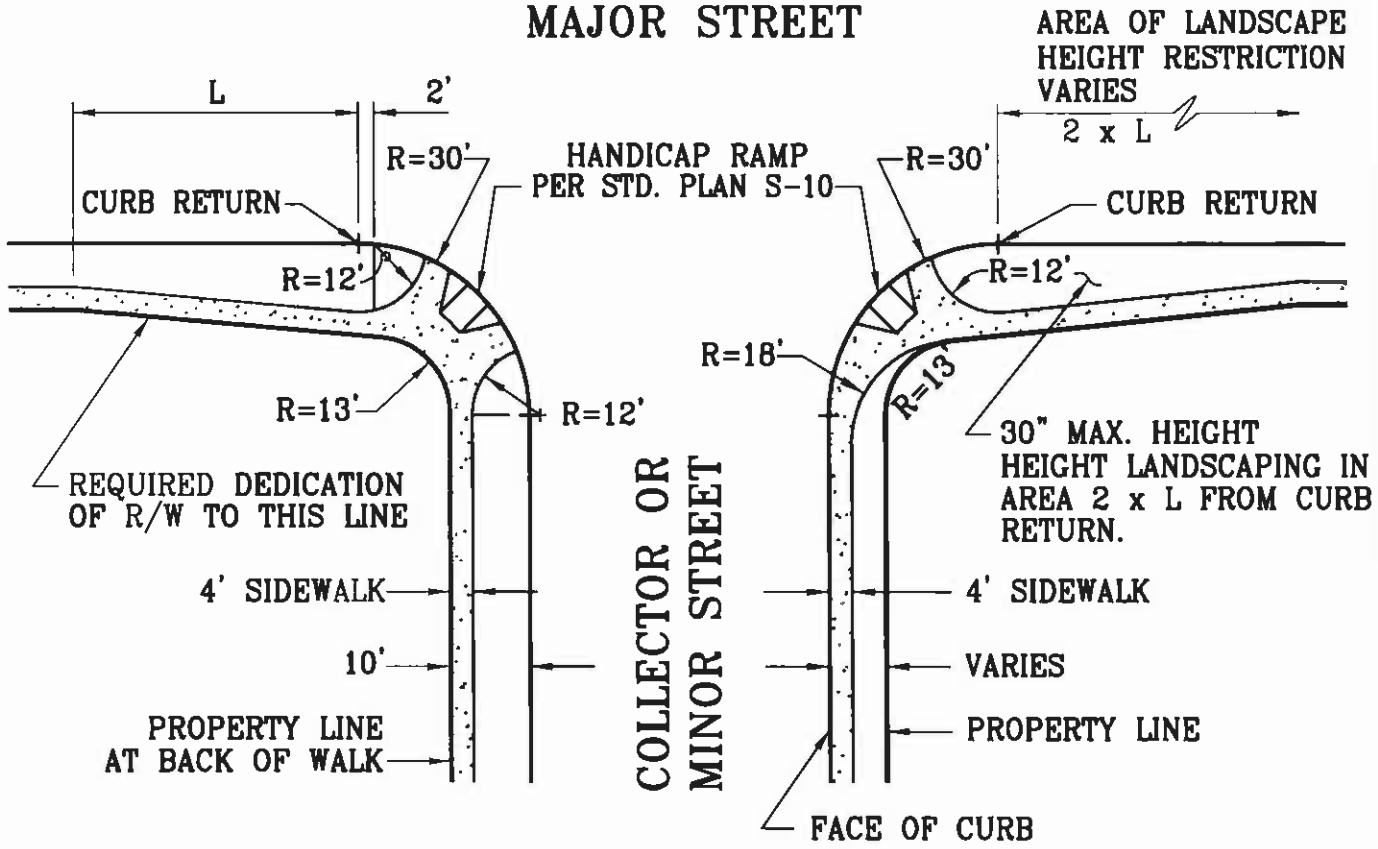
6'-0" Maximum Fence Height

8'-0" Maximum Fence Height

This diagram is for illustration purposes only and has not been adopted as part of the Zoning Ordinance.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**SIGHT DISTANCE AT DRIVEWAYS AND INTERSECTIONS**	SHEET **1 OF 1**
	DATE: AUGUST, 2008 / SCALE: NONE	PAGE **S-6**
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 11:19 A BJB S-6 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-06 SITE DISTANCE.DWG



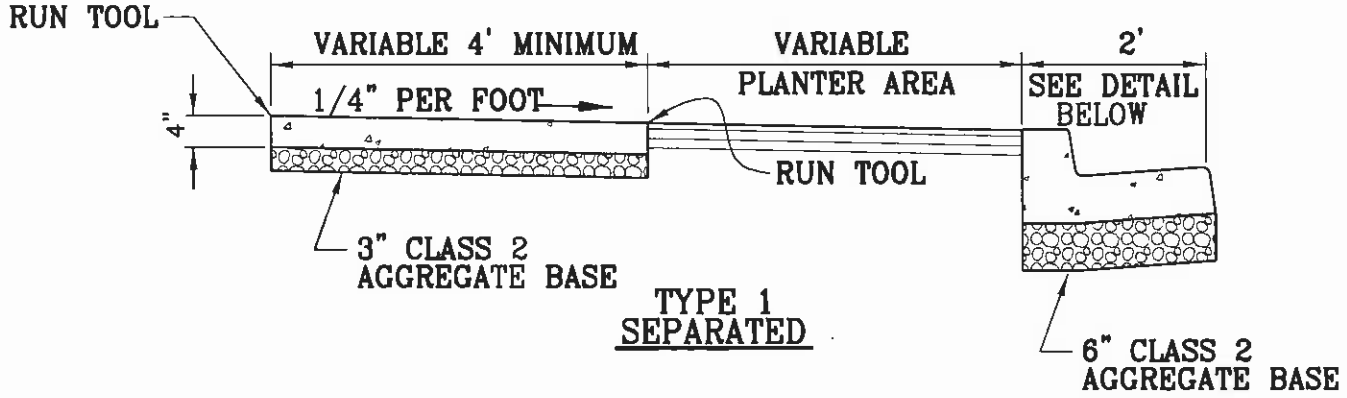
INTERSECTIONS TO STREETS WITH REAR OR SIDE LOT "BACK-UP" FENCING

DESIGN SPEED MAJOR STREET	LENGTH OF L
30 MPH	75'
35 MPH	85'
40 MPH	100'
45 MPH	120'
55 MPH	150'

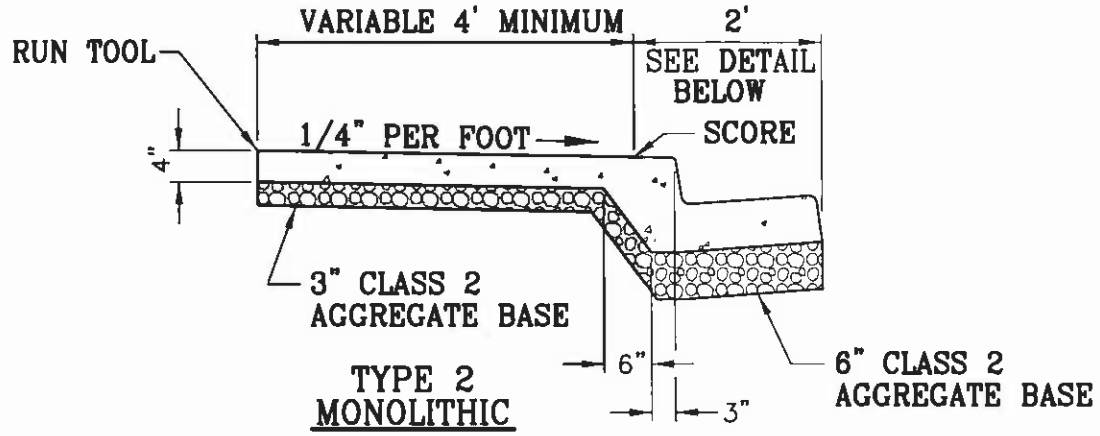
CITY OF CLAYTON
Founded 1857 ...Incorporated 1964

SIDEWALK AND GEOMETRICS AT MAJOR STREET INTERSECTIONS		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-7
APPROVED: _____ CITY ENGINEER		

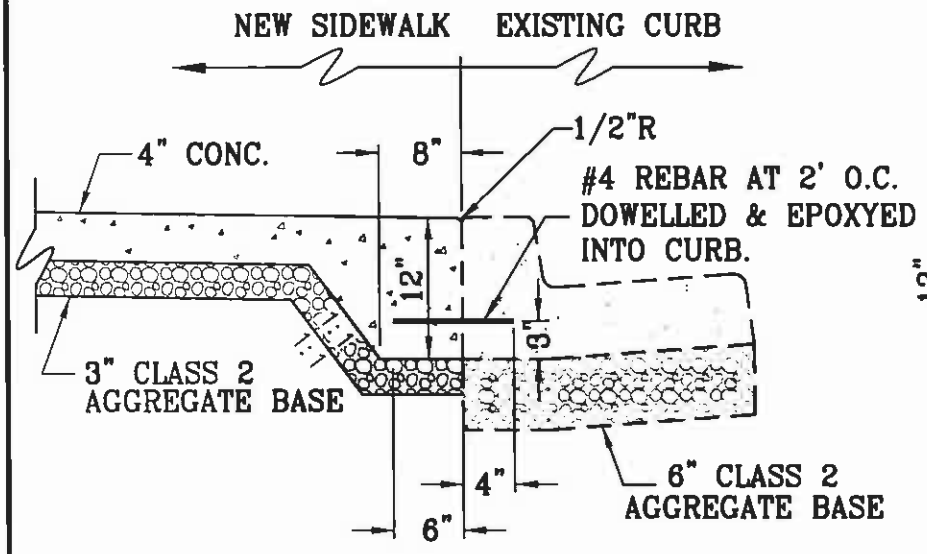
FRI, SEP 05, 2008 12:12 P BJB S-7 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-07 SITE DISTANCE MAJOR STREETS.DWG



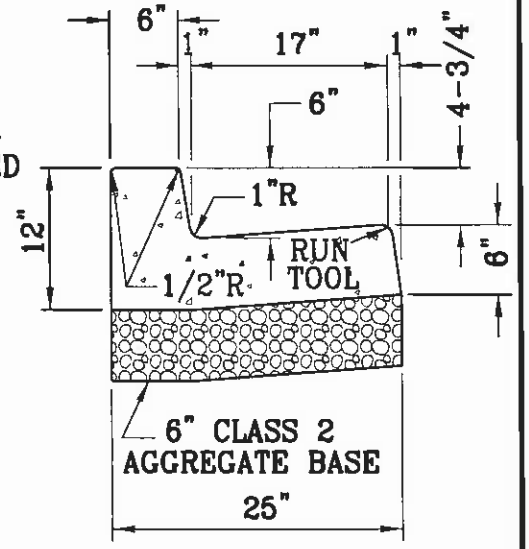
TYPE 1
SEPARATED



TYPE 2
MONOLITHIC



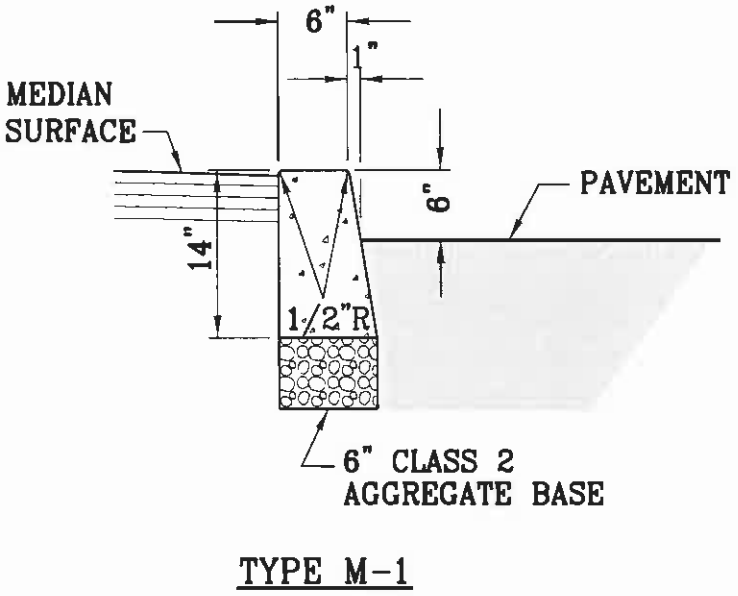
EXISTING CURB DETAIL
WITH NEW SIDEWALK



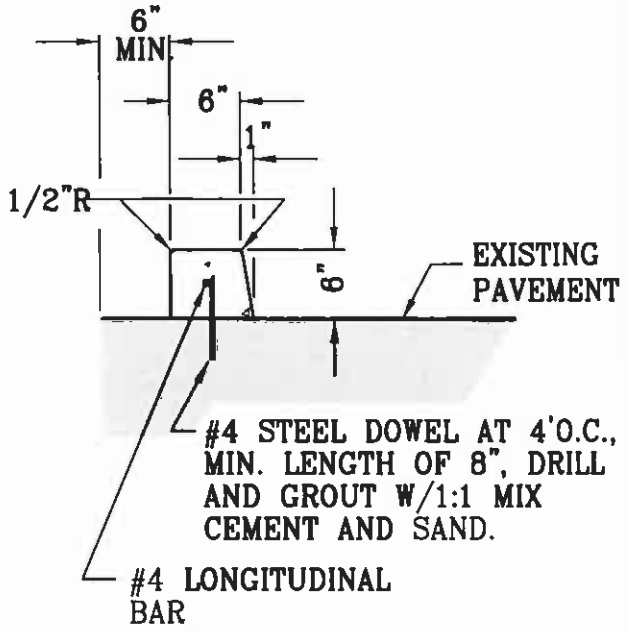
CURB-GUTTER DETAIL

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**CURB, GUTTER AND SIDEWALK**	SHEET **1 OF 1**
	DATE: AUGUST, 2008 / SCALE: NONE	PAGE **S-8**
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 12:13 P BJB S-8 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-08 CURB GUTTER AND SDWK.DWG



TYPE M-1



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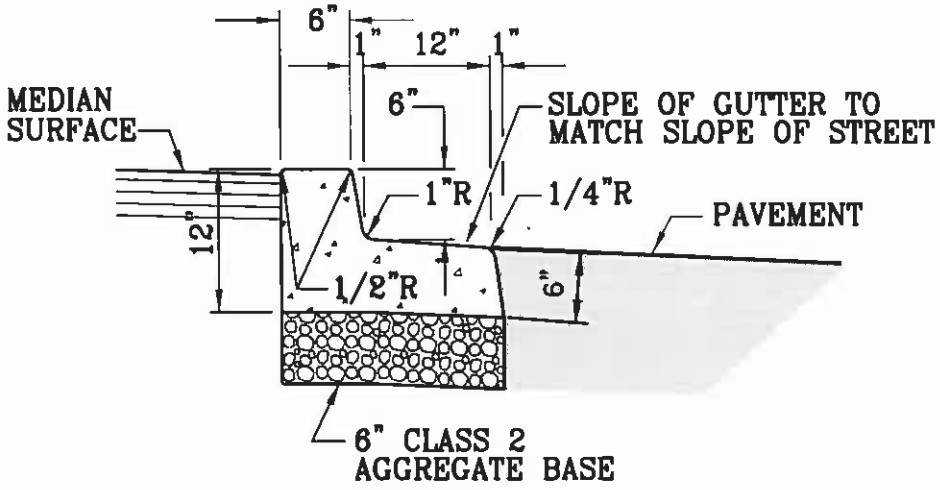


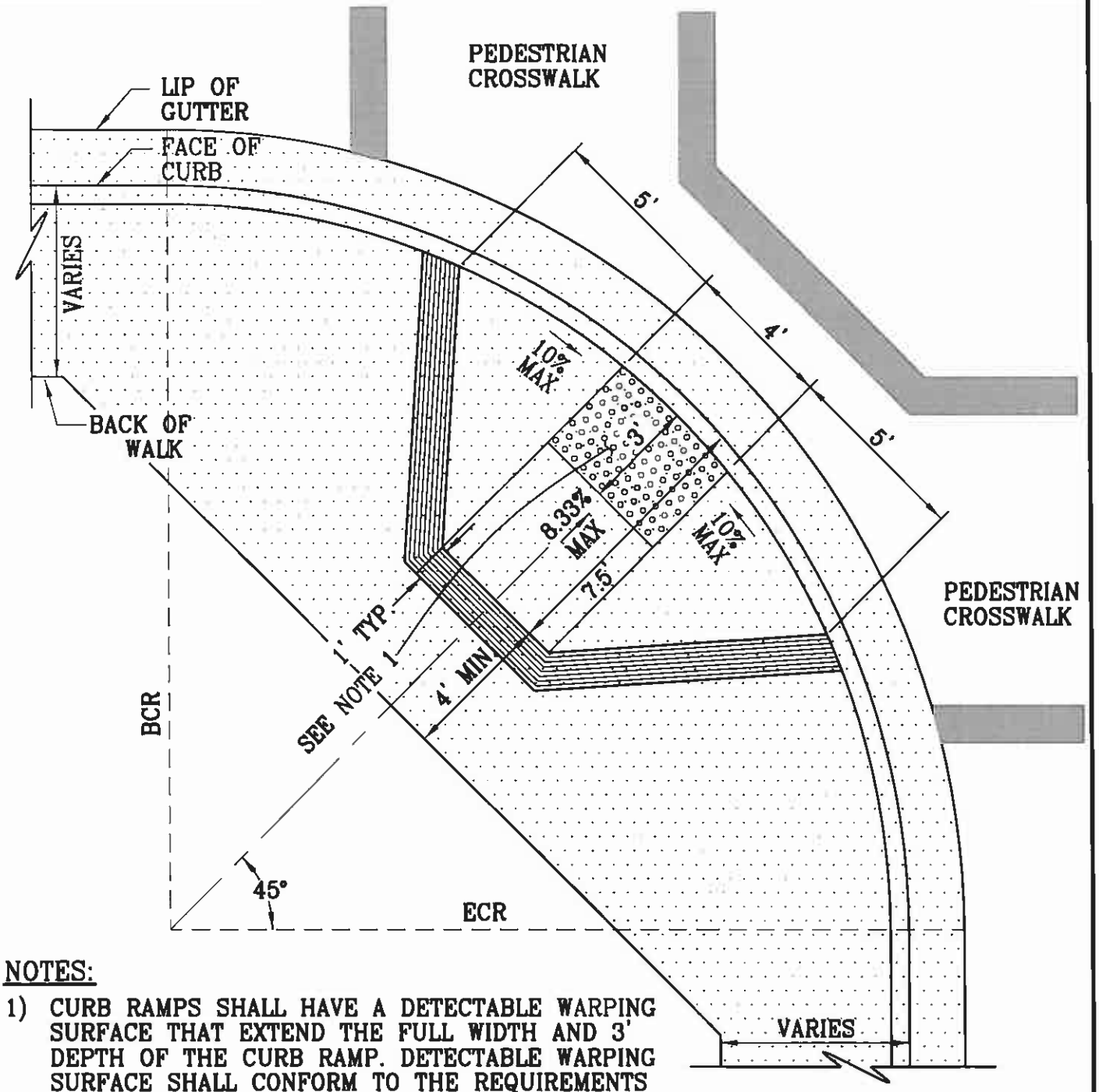
TYPE-3

NOTE:

IN LIEU OF USING DOWELS AND REBAR TO ANCHOR TYPE M-2 CURB TO EXISTING PAVEMENTS, EPOXY ADHESIVE CONFORMING TO SEC. 95 OF THE CALTRANS STANDARD SPECIFICATIONS MAY BE USED.

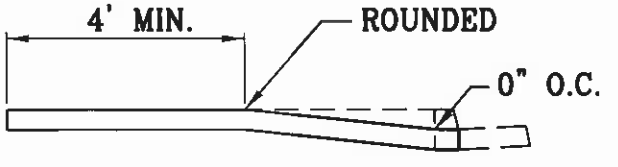
CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	MEDIAN CURBS	SHEET 1 OF 1
	DATE: AUGUST, 2008 / SCALE: NONE	PAGE S-9
	APPROVED: _____ CITY ENGINEER	

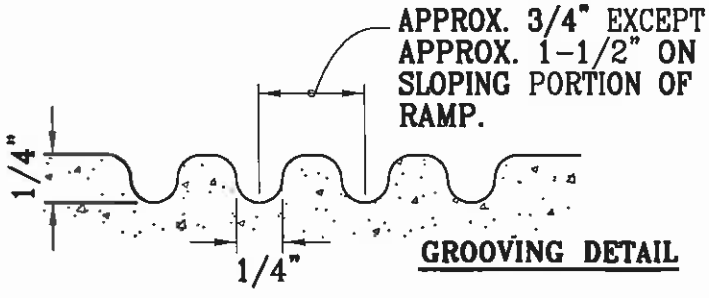
FRI, SEP 05, 2008 12:13 P BJB S-9 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-09 MEDIAN CURBS.DWG



NOTES:

1) CURB RAMPS SHALL HAVE A DETECTABLE WARPING SURFACE THAT EXTEND THE FULL WIDTH AND 3' DEPTH OF THE CURB RAMP. DETECTABLE WARPING SURFACE SHALL CONFORM TO THE REQUIREMENTS OF THE ADA.



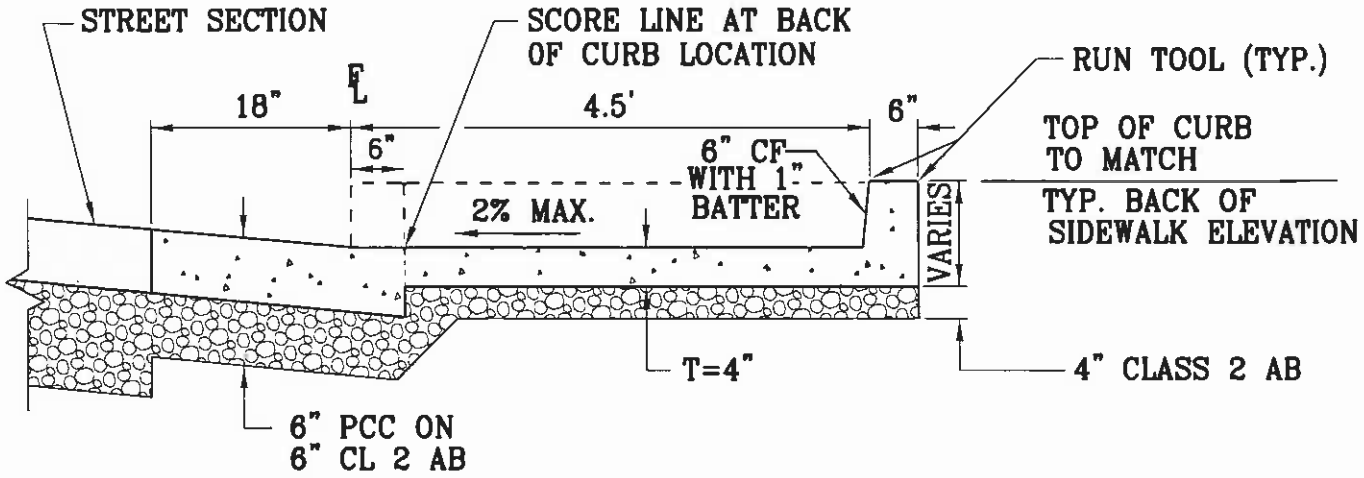


GROOVING DETAIL

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

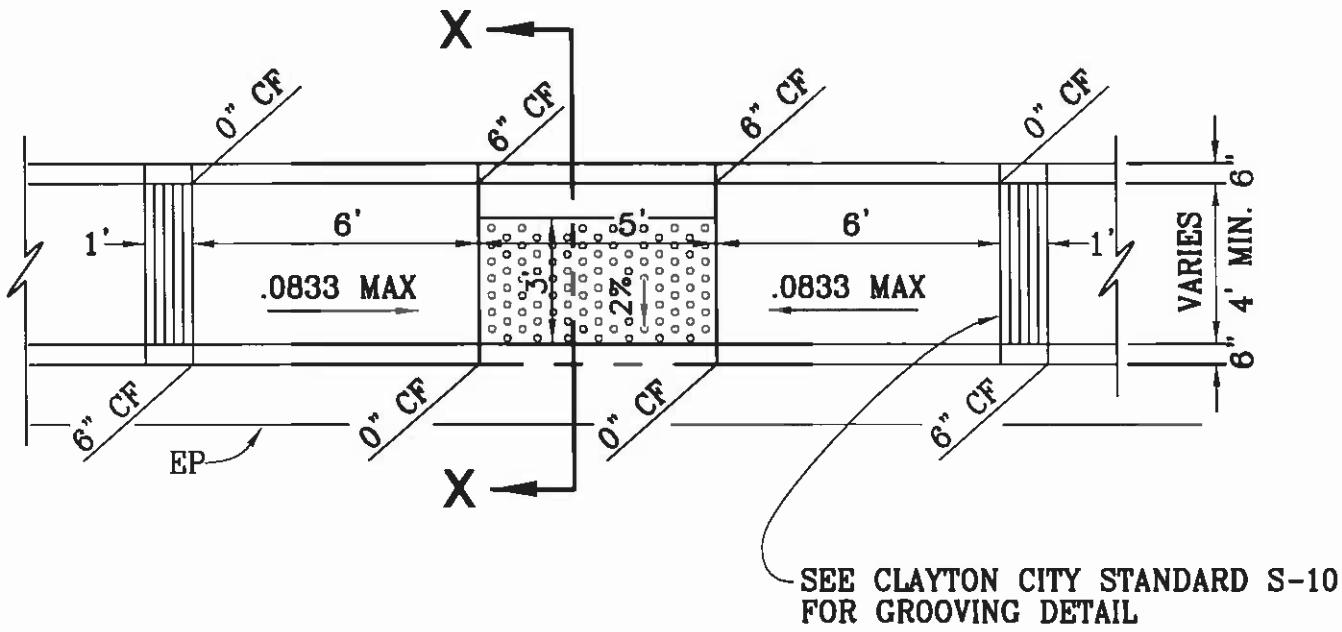
PEDESTRIAN RAMP		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-10
APPROVED: _____ CITY ENGINEER		

TUE, SEP 09, 2008 07:53 A BJB S-10 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-10 PEDESTRIAN RAMP.DWG



SECTION X-X

SCALE: NTS

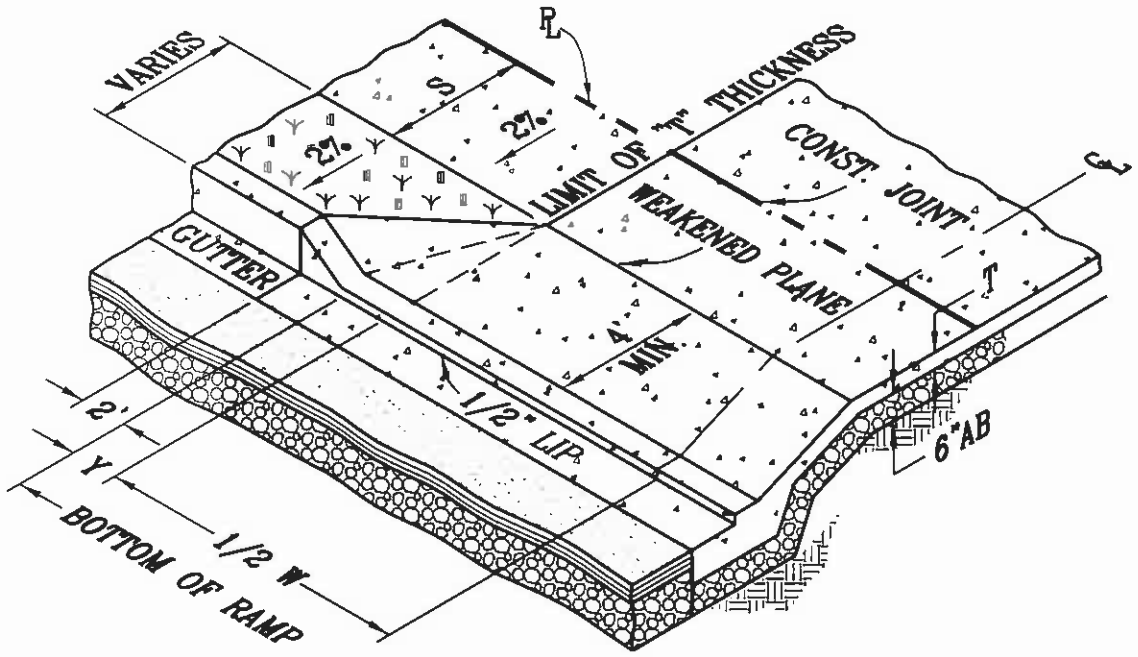


NOTES:

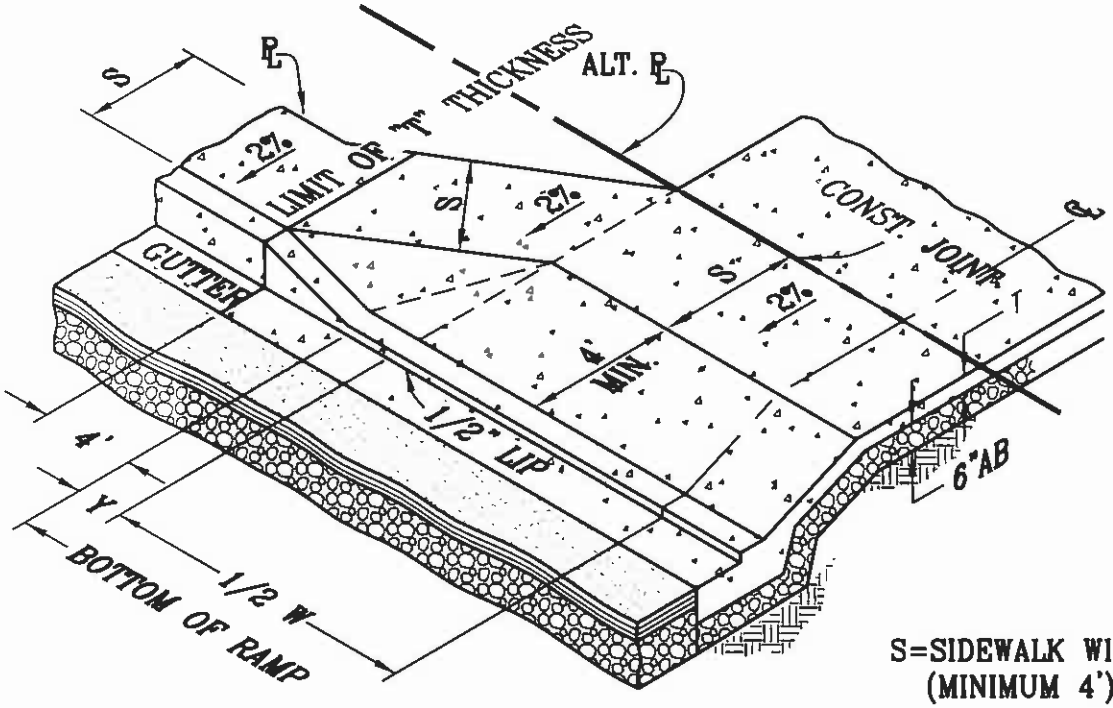
1) CURB RAMPS SHALL HAVE A DETECTABLE WARPING SURFACE THAT EXTEND THE FULL WIDTH AND 3' DEPTH OF THE CURB RAMP. DETECTABLE WARPING SURFACE SHALL CONFORM TO THE REQUIREMENTS OF THE ADA.

CITY OF CLAYTON	ALTERNATE PEDESTRIAN RAMP	SHEET 1 OF 1
	DATE: AUGUST, 2008 / SCALE: NONE	PAGE S-10a
	APPROVED: _____ CITY ENGINEER	

TUE, SEP 09, 2008 07:54 A BJB S - 10A Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-10B ALTERNATE PEDESTRIAN RAMP.DWG



DRIVEWAY WITH SEPARATED SIDEWALK



S=SIDEWALK WIDTH
(MINIMUM 4')

DRIVEWAY WITH MONOLITHIC SIDEWALK

SEE SHEET 2 FOR DIMENSIONS AND NOTES

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**DRIVEWAYS**	SHEET 1 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE S-11
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 12:23 P BJB SHEET 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-11-1 AND 2 DRIVEWAYS.DWG

TABLE OF DRIVEWAY DIMENSIONS		
DIMENSION	SINGLE FAMILY RESIDENTIAL	ALL OTHERS
Y	0'-0" MINOR & COLLECTOR STS. 4'-0" ARTERIAL STREETS	4'-0"
T	0'-6"	0'-6"+ REINFORCEMENT (NOTE 1)
W	12'-0" MINIMUM (NOTE 2) 26'-0" MAXIMUM	25'-0" MINIMUM (NOTE 2) 40'-0" MAXIMUM

GENERAL NOTES:

1) REINFORCEMENT SHALL BE #3 BARS AT 18" O.C. BOTH WAYS, SET IN THE MIDDLE OF THE CONCRETE.

2) ALL DRIVEWAY WIDTHS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

3) THE REQUIRED STRUCTURAL SECTION FOR ANY DRIVEWAY SHALL BE CONTINUOUS FROM THE CURB TO THE BACK OF SIDEWALK.

4) THE TOTAL OF ALL DRIVEWAYS (MEASURED AT THE TOP OF CURB BETWEEN OUTSIDE EDGES) SHALL NOT EXCEED 50% OF THE LOT FRONTAGE UNLESS APPROVED BY THE CITY ENGINEER.

5) WEAKENED PLANE JOINTS SHALL BE INSTALLED AT THE CENTER OF ALL DRIVEWAYS WHEN W=20' OR MORE.

6) AGGREGATE BASE UNDER DRIVEWAYS SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

7) ALL CONCRETE DEMOLITION SHALL OCCUR AT SCORE LINES OR JOINTS ONLY. EXISTING CONCRETE SHALL BE SAWN NEAT AND STRAIGHT.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

DRIVEWAYS

SHEET 2 OF 2

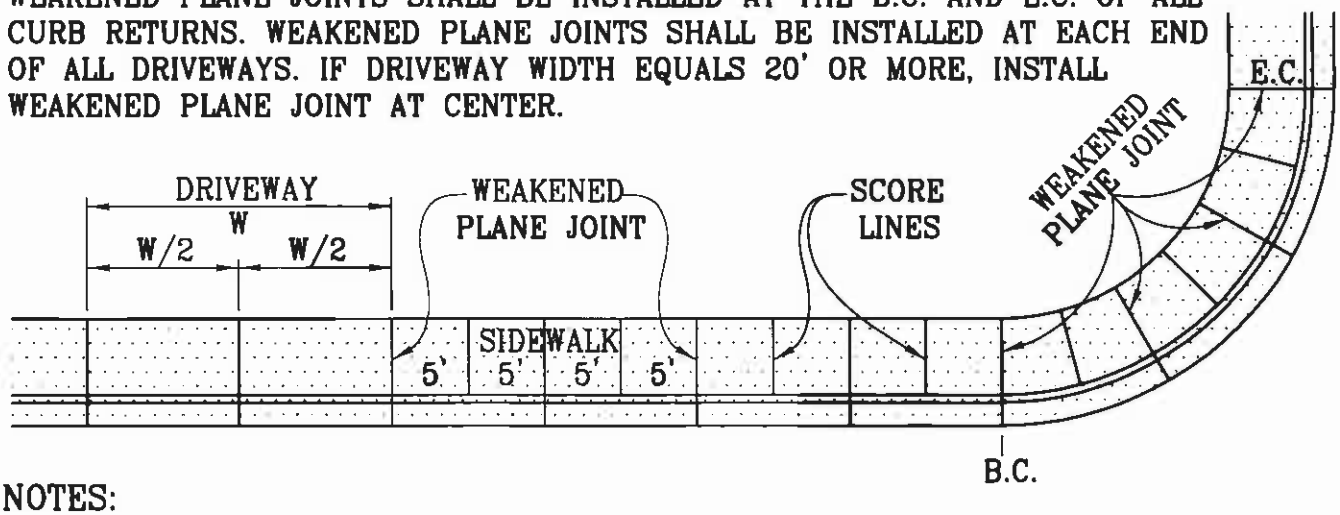
DATE: AUGUST, 2008 SCALE: NONE

APPROVED: _____ CITY ENGINEER

PAGE S-11

TUE, SEP 09, 2008 06:51 A BJB SHEET 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-11-1 AND 2 DRIVEWAYS.DWG

WEAKENED PLANE JOINTS SHALL BE INSTALLED AT THE B.C. AND E.C. OF ALL CURB RETURNS. WEAKENED PLANE JOINTS SHALL BE INSTALLED AT EACH END OF ALL DRIVEWAYS. IF DRIVEWAY WIDTH EQUALS 20' OR MORE, INSTALL WEAKENED PLANE JOINT AT CENTER.



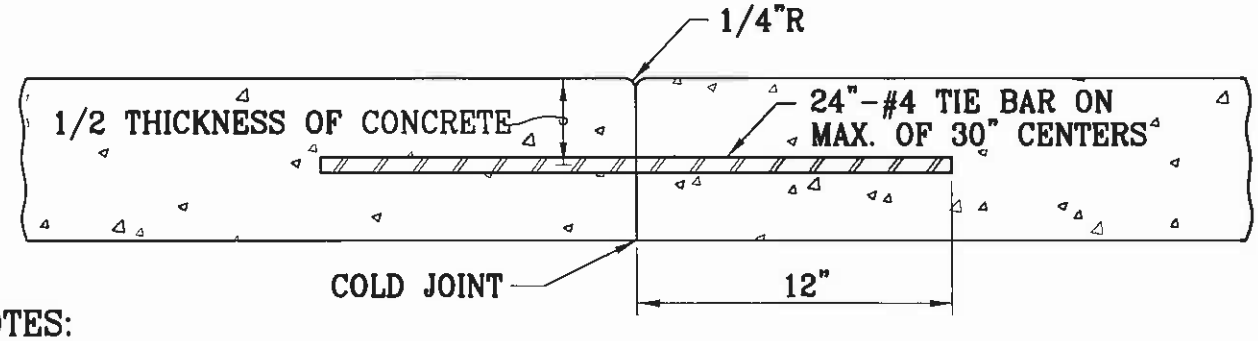
NOTES:

1) WEAKENED PLANE JOINTS SHALL BE AT 10 FEET ON CENTER AND SHALL EXTEND THROUGH SIDEWALK AND CURB-GUTTER. JOINTS SHALL BE 1/8" WIDE 1" DEEP.

2) SCORE LINES SHALL BE 10 FEET ON CENTER, MIDWAY BETWEEN WEAKENED PLANE JOINTS, AND SHALL BE PLACED IN THE MIDDLE OF ALL SIDEWALKS EXCEEDING 6 FEET IN WIDTH.

3) ALL SIDEWALK AND CURB AND GUTTER REMOVAL AND REPLACEMENT SHALL BEGIN AND END AT WEAKENED PLANE JOINTS ADJACENT TO UNDAMAGED SIDEWALK OR CURB AND GUTTER.

WEAKENED PLANE JOINTS AND SCORE LINES IN SIDEWALK



NOTES:

1) TIE BARS SHALL BE REQUIRED WHENEVER NEW CONCRETE IS POURED AGAINST EXISTING CONCRETE.

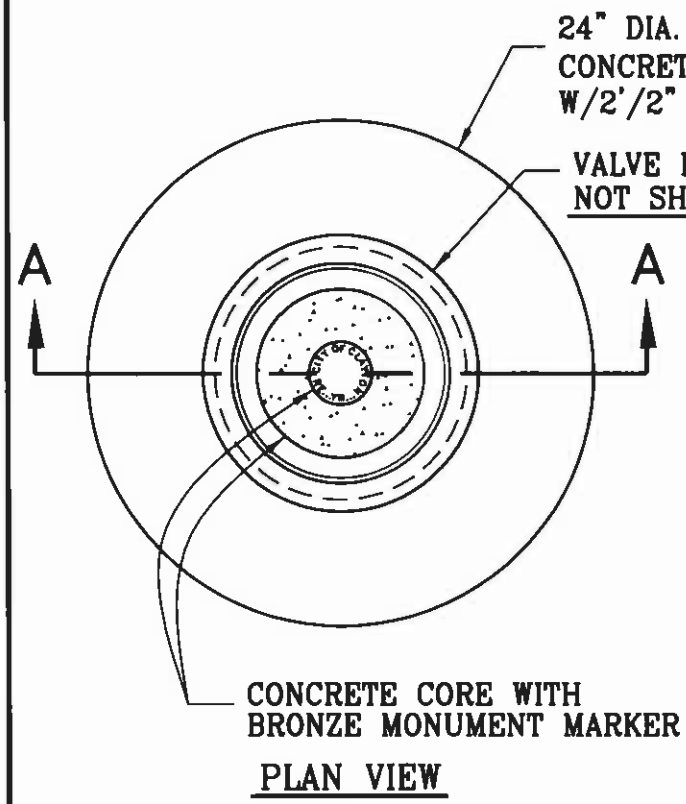
2) ALL CONSTRUCTION JOINTS SHALL HAVE A MINIMUM OF 2 TIE BARS.

CONSTRUCTION JOINTS

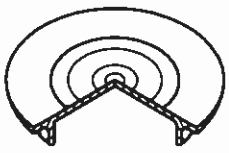
CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

WEAKENED PLANE JOINTS, SCORE LINES AND CONSTRUCTION JOINTS			SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE		PAGE S-12
APPROVED:	CITY ENGINEER		

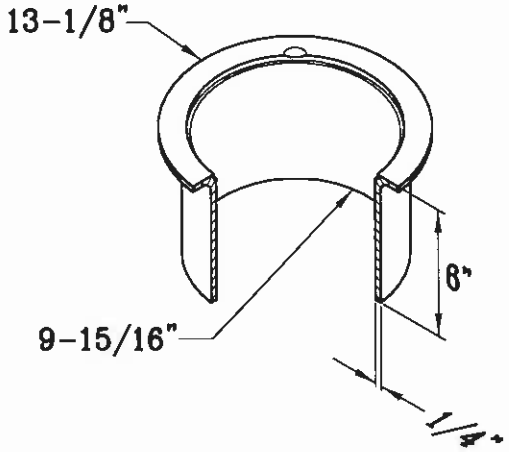
FRI, SEP 05, 2008 12:25 P BJB S-12 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-12 WEAKEND PLANE JOINTS.DWG



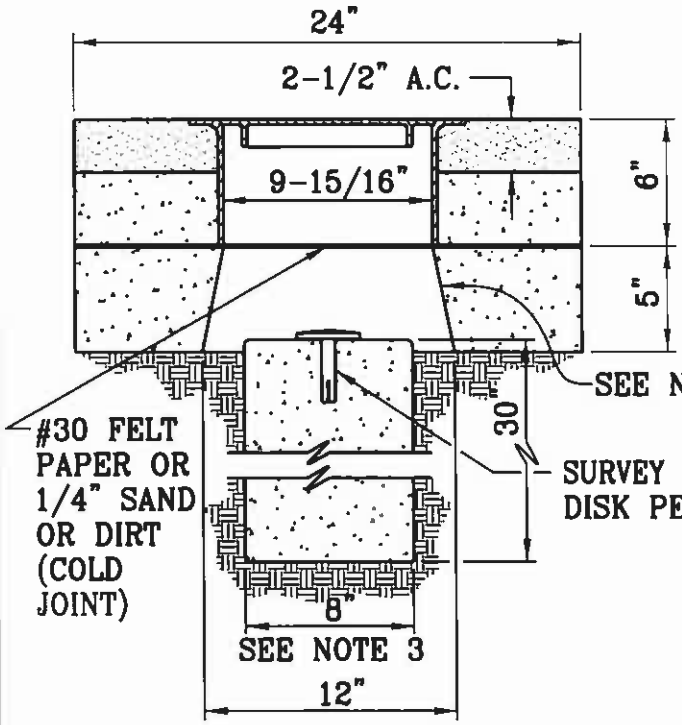
PLAN VIEW



VALVE BOX COVER



DUCTILE IRON
TRAFFIC VALVE BOX



SECTION A - A

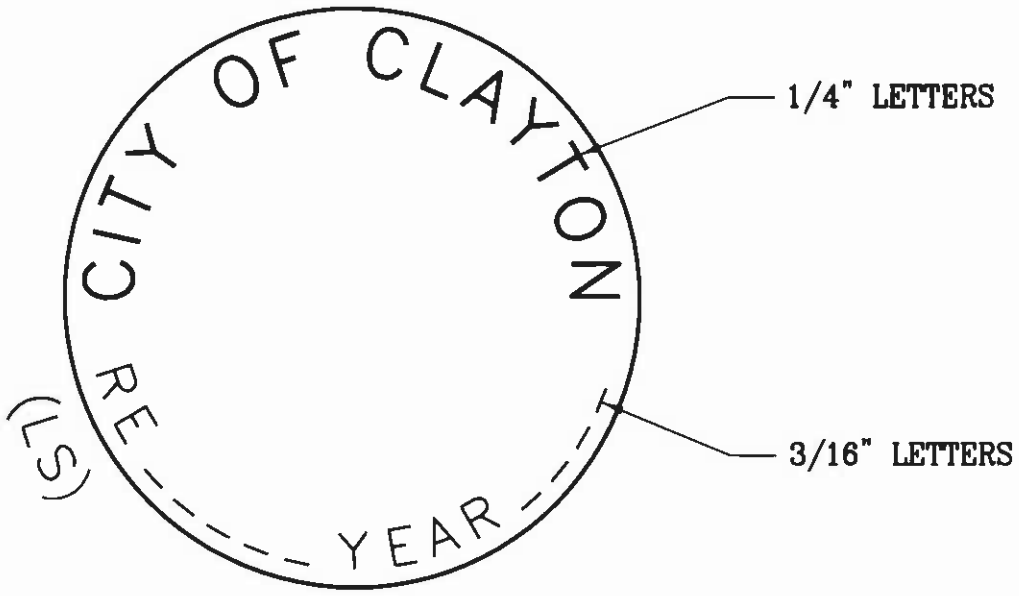
NOTES:

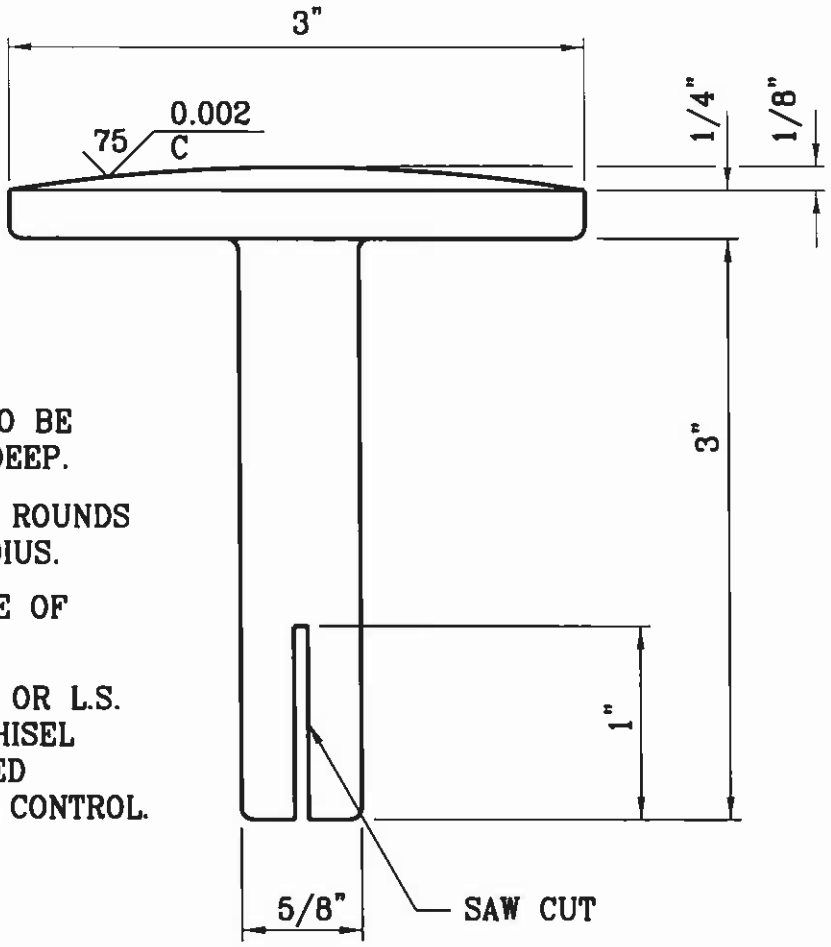
1) COVER SHALL BE MARKED "MONUMENT" AND BE DESIGNED TO CARRY A 16,000LB. MIN. WHEEL LOAD.
2) RISER ASSEMBLY AVAILABLE (NOT SHOWN).
3) 6" DIAMETER COLLAR FORMED OF #30 FELT, 1" BELOW COLD JOINT, AS SHOWN.
4) TAPERED METAL CONE, OR 3/32" (OR HEAVIER) CHIPBOARD.
5) REFER TO FORNI CORP. "IRONSIDES" TYPE 80-60-03 9-1/2" VALVE BOX, OR APPROVED EQUAL.
6) COVER SHALL BE NON-ROCKING.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

SURVEY MONUMENT		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-13
APPROVED: _____ CITY ENGINEER		

TUE, SEP 09, 2008 06:52 A BJB S-13 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-13 SURVEY MONUMENT.DWG





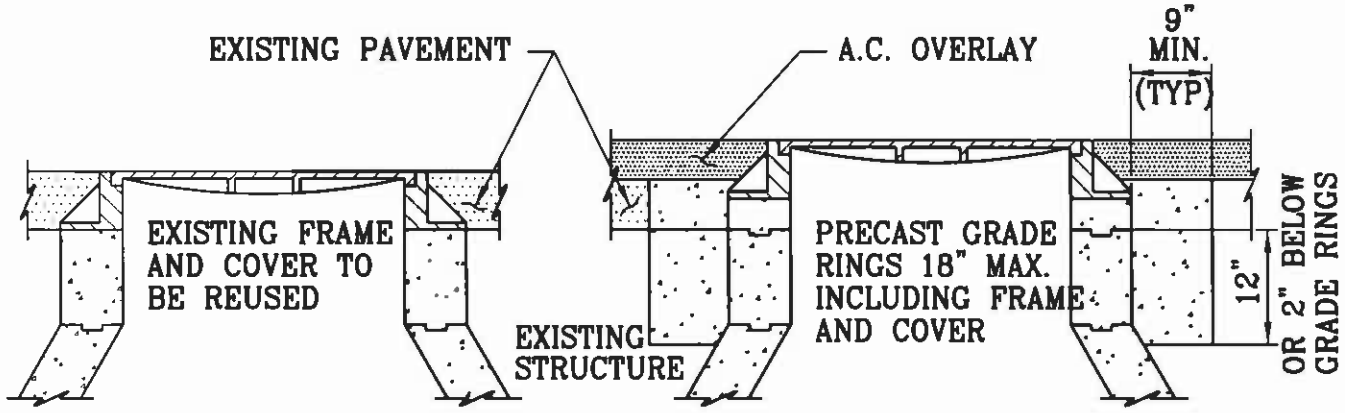
NOTES:

1) ALL LETTERING TO BE STAMPED 1/16" DEEP.
2) ALL FILLETS AND ROUNDS TO BE 1/16" RADIUS.
3) DISK TO BE MADE OF BRONZE.
4) STAMP WITH R.E. OR L.S. NUMBERS AND CHISEL CROSS WHEN USED FOR HORIZONTAL CONTROL.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

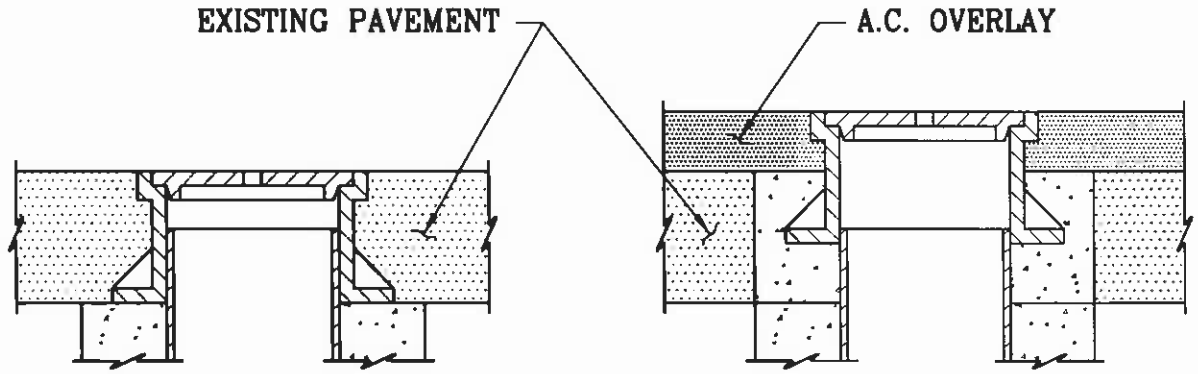
SURVEY MONUMENT DISK		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-14
APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 12:29 P BJB S-14 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-14 SURVEY MON DISK.DWG



EXISTING

RAISED

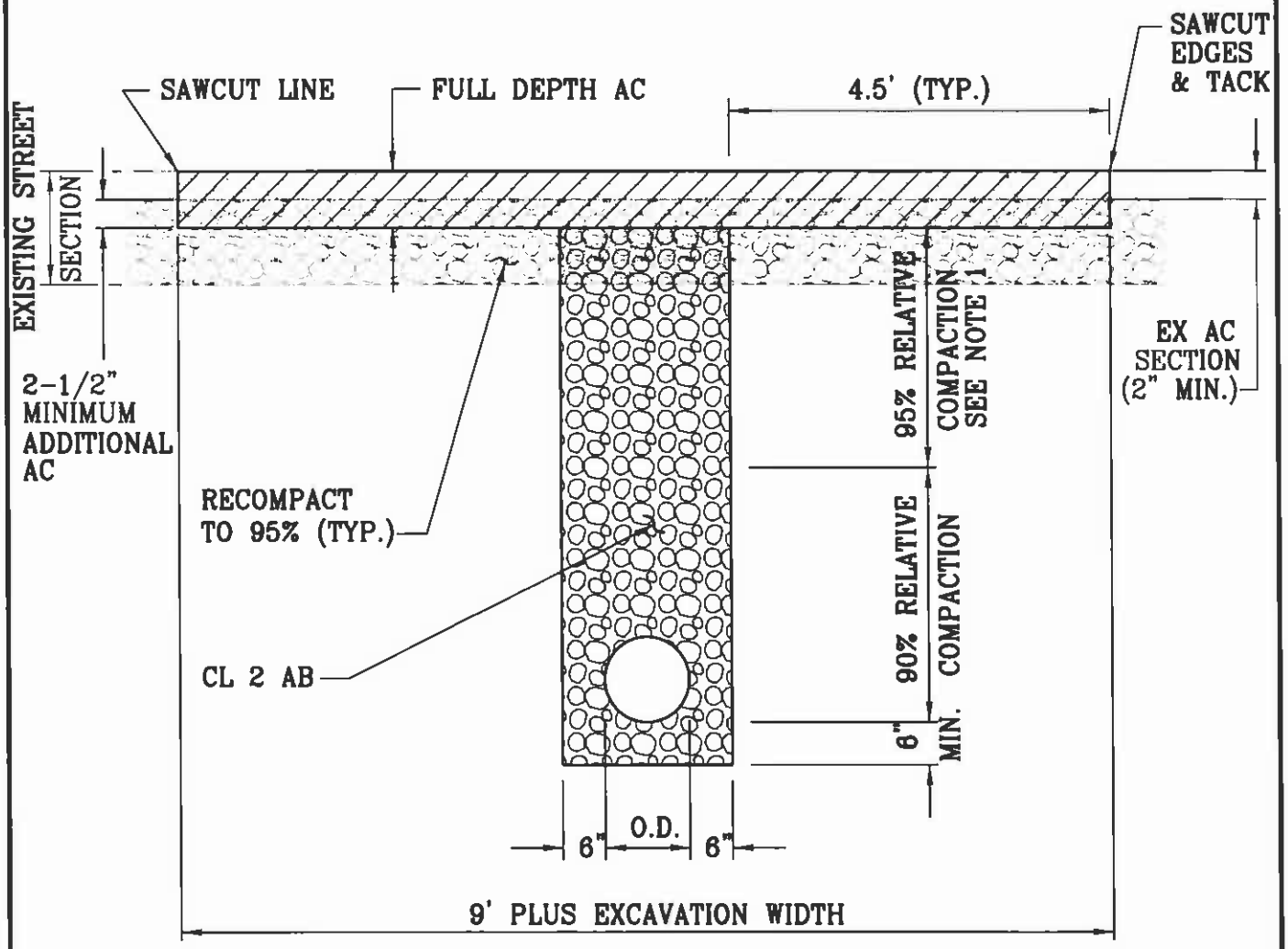


EXISTING

RAISED

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**MANHOLE / VALVE CASTING ADJUSTMENT DETAIL**	SHEET **1 OF 1**
	DATE: AUGUST, 2008 SCALE: NONE	PAGE **S-15**
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 12:30 P BJB S-15 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-15 MANHOLE - VALVE CASTING.DWG



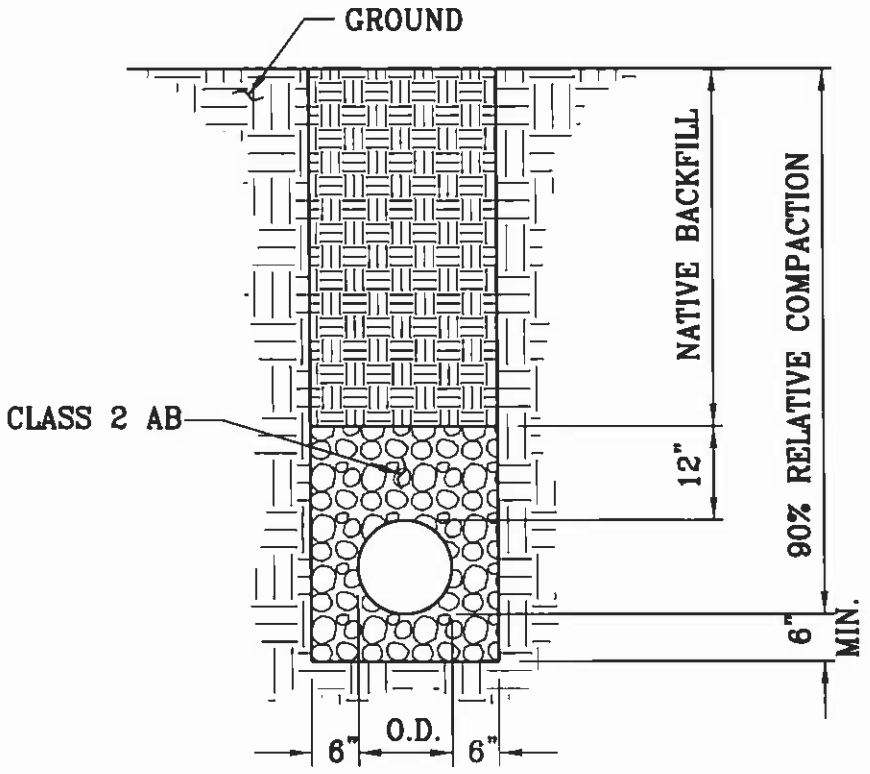
PAVED STREETS

(SEE SHEET 2 FOR WORK IN NON-PAVED AREAS)

NOTE:
SEE SHEET 2 FOR NOTES

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	TRENCH BACKFILL AND RESURFACING	SHEET 1 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE S-16
	APPROVED: _____ CITY ENGINEER	

TUE, SEP 09, 2008 07:00 A BJB 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-16-1 AND 2 TRENCH BACKFILL.DWG



NON - PAVED AREAS

NOTES:

1) 95% RELATIVE COMPACTION REQUIRED FOR 2'-6" BELOW FINISHED GRADE OR 0'-6" BELOW STREET SECTION, WHICHEVER IS GREATER.

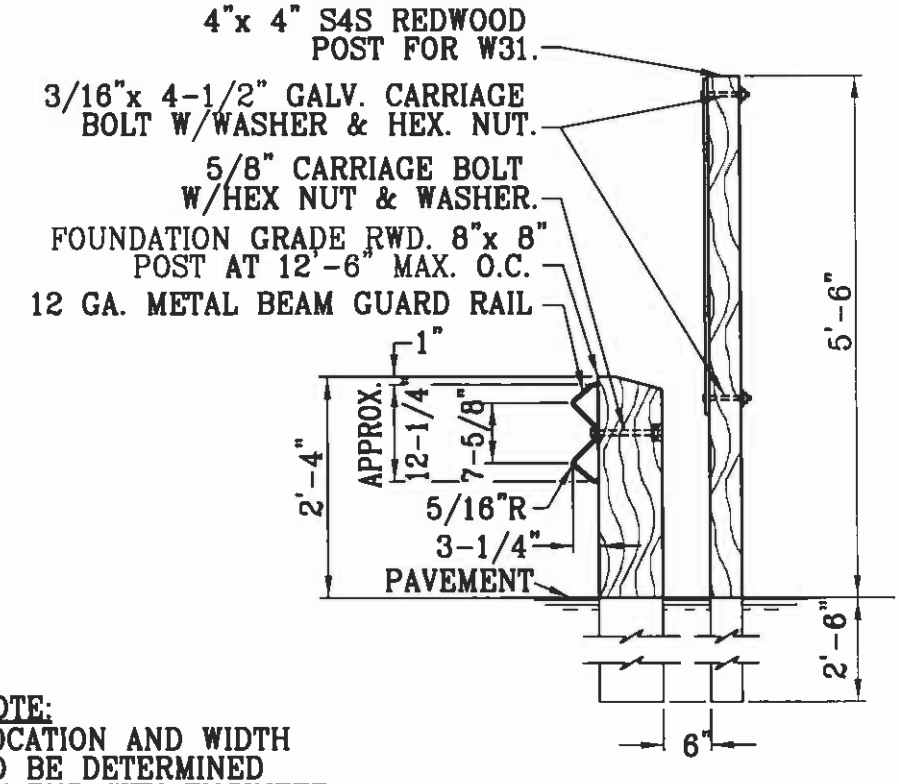
2) TRENCHES RUNNING LONGITUDINALLY IN EXISTING STREETS SHALL BE RESURFACED USING AN APPROVED SPREADER BOX. THE EDGES OF ALL TRENCHES SHALL BE NEATLY RAKED.

3) MATERIAL FOR "NATIVE BACKFILL" SHALL BE OBTAINED FROM THE EXCAVATION AND SHALL BE FREE FROM STONES, LUMPS, BROKEN CONCRETE OR BITUMINOUS SURFACING EXCEEDING 4" IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL. THE MATERIAL SHALL CONTAIN SUFFICIENT FINES TO INSURE THAT VOIDS WILL BE FILLED AND THAT SPECIFIED COMPACTION REQUIREMENTS WILL BE MET. WHEN MATERIAL FROM THE EXCAVATION IS DEEMED UNSUITABLE FOR USE AS BACKFILL BY THE CITY ENGINEER, IT SHALL BE DISPOSED OF AND SUITABLE MATERIAL FURNISHED.

4) BACKFILL MATERIAL FOR TRENCHES SHALL BE PLACED AND COMPACTED IN 6"-8" LIFTS.

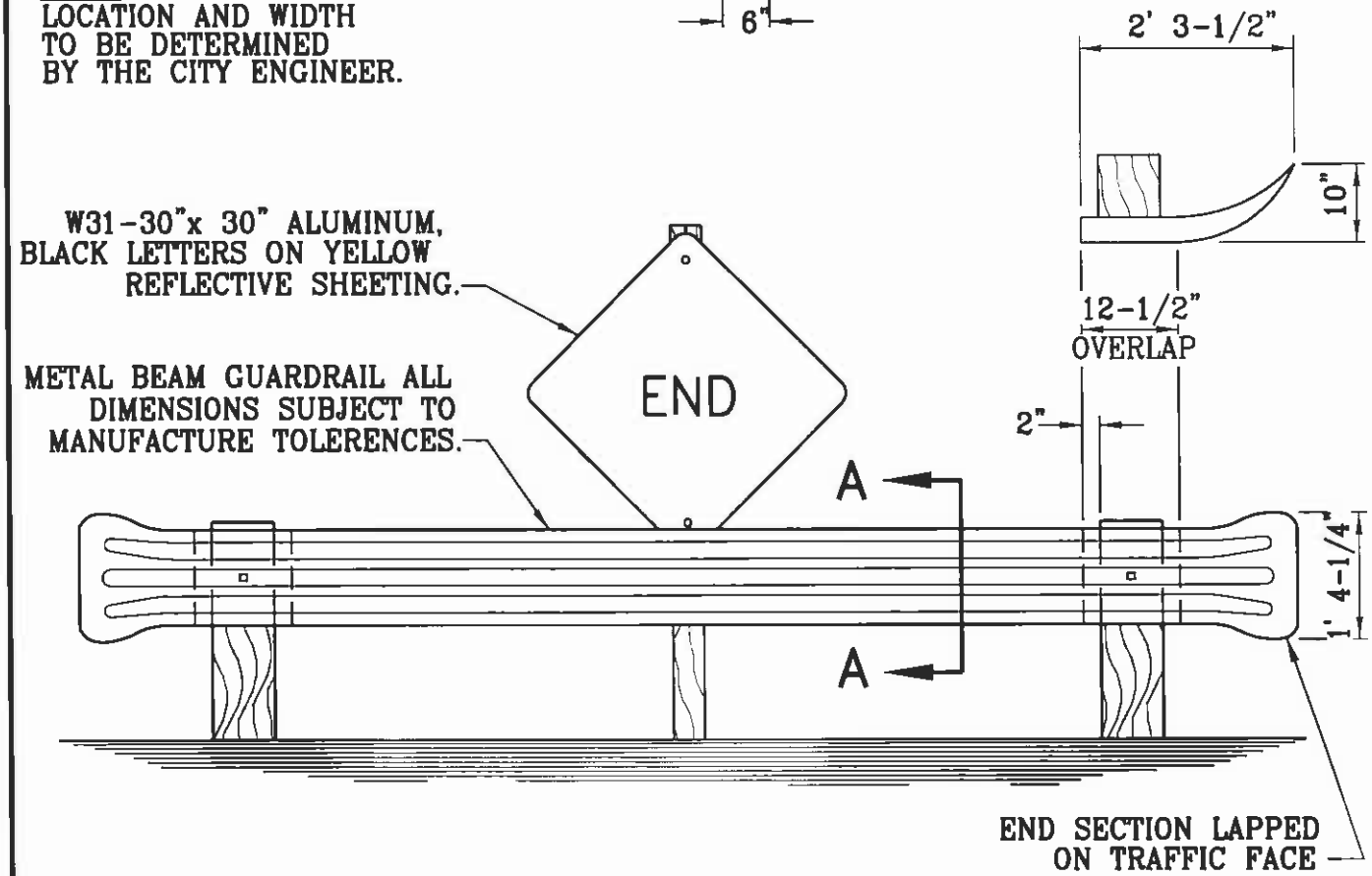
CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	TRENCH BACKFILL AND RESURFACING	SHEET 2 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE S-16
	APPROVED: CITY ENGINEER	

TUE, SEP 09, 2008 07:01 A BJB 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-16-1 AND 2 TRENCH BACKFILL.DWG



NOTE:
ALL METAL MATERIALS TO BE GALVANIZED.

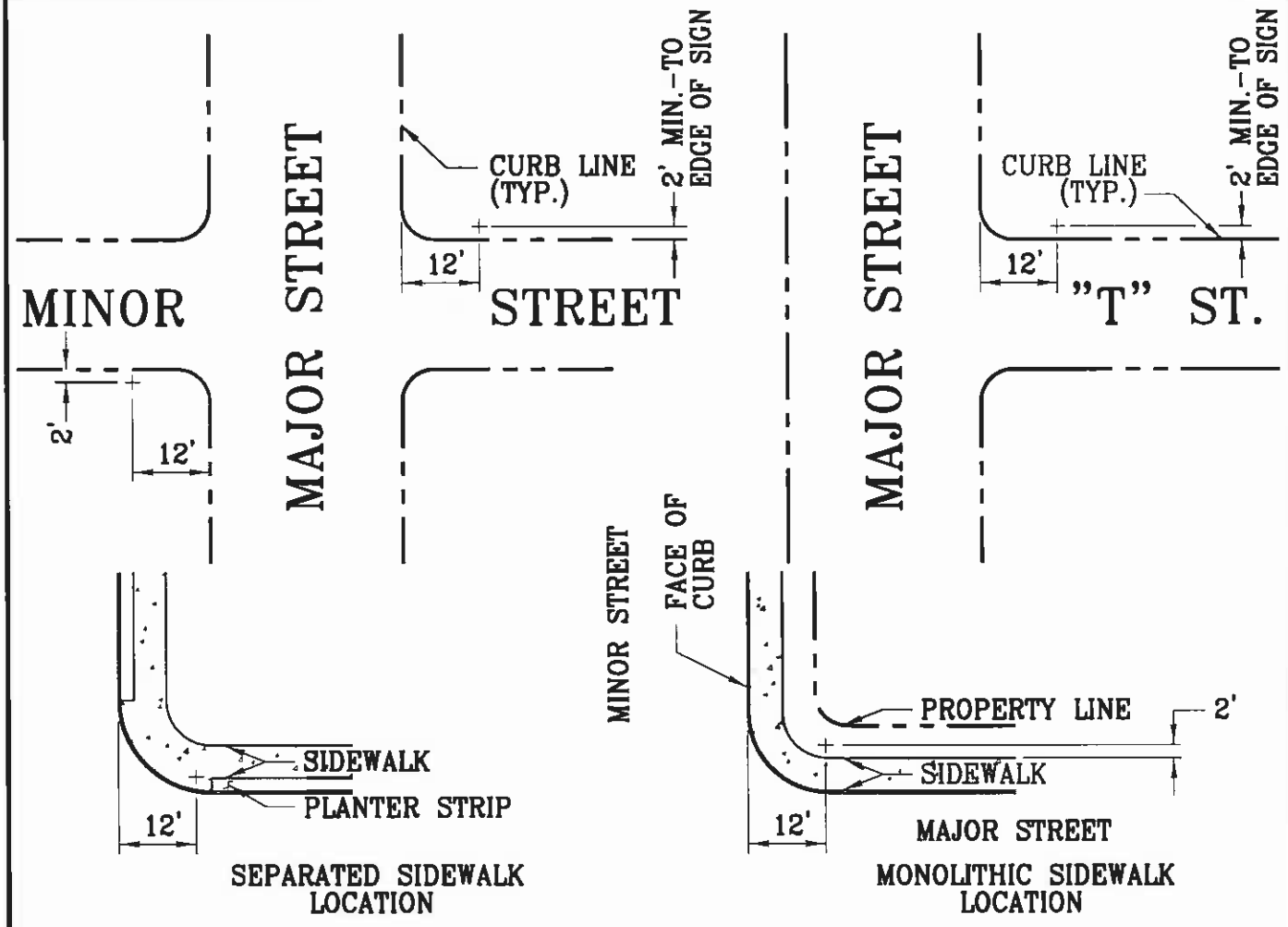
NOTE:
LOCATION AND WIDTH TO BE DETERMINED BY THE CITY ENGINEER.

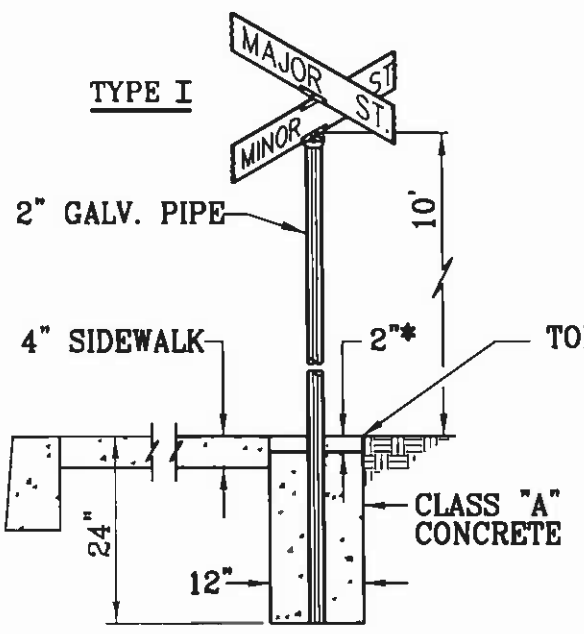


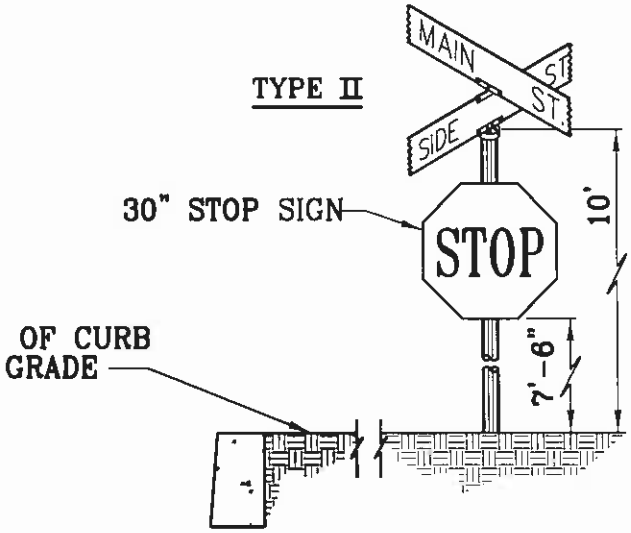
CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

STREET BARRICADE		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-17
APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 12:35 P BJB S-17 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-17 STREET BARRICADE.DWG







* CAP HOLE WITH 2" OF CONCRETE WHEN OUTSIDE SIDEWALK AREA.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

STREET NAME SIGNS		SHEET 1 OF 2
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-18
APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 12:36 P BJB 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-18-1 AND 2 STREET NAME SIGNS.DWG

PLATE:

6"x VARIABLE, 24" MINIMUM x .125" UNREFLECTIVE BROWN BACKGROUND, DOUBLE-FACED RUSTIC STYLE.

V14F-(HD)SL-2C2P
ILLUSTRATE

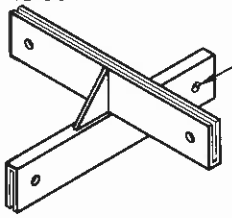
LEGEND:

P.T. BARNUM STYLE, REFLECTIVE WHITE, 4" UPPER AND LOWER CASE MAIN COPY, PREFIX AND SUFFIX.

Clayton Rd.

CROSSPIECE:

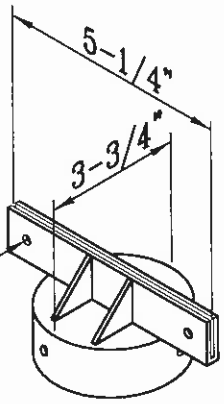
V14F-(HD)SL-105(90) SLOTTED FOR .125"



V14F-(HD)SL-110S
5/16" SET SCREWS
(4 EA.)

CAP:

V14F-(HD)SL-107(2C)
SLOTTED FOR .125" TO
FIT 2" I.D. PIPE POST.



V14F-(HD)SL-110S
5/16" SET SCREWS
(5 EA.)

V14F-(HD)SL-2C1P ONE NAME ASSEMBLY
V14F-(HD)SL-2C2P TWO NAME ASSEMBLY

6' x VARIABLE, 24" MINIMUM x .125" ALUMINUM RUSTIC STYLE PLATE, DOUBLE FACED, UNREFLECTIVE BROWN BACKGROUND. REFLECTIVE WHITE "P.T. BARNUM" STYLE UPPER AND LOWER CASE MAIN COPY, PREFIX AND SUFFIX. CAP TO FIT 2" I.D. PIPE. CAP AND CROSSPIECE TO FIT .125" ALUMINUM.

PURSUANT TO THE CITY OF CLAYTON SPECIFICATIONS.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

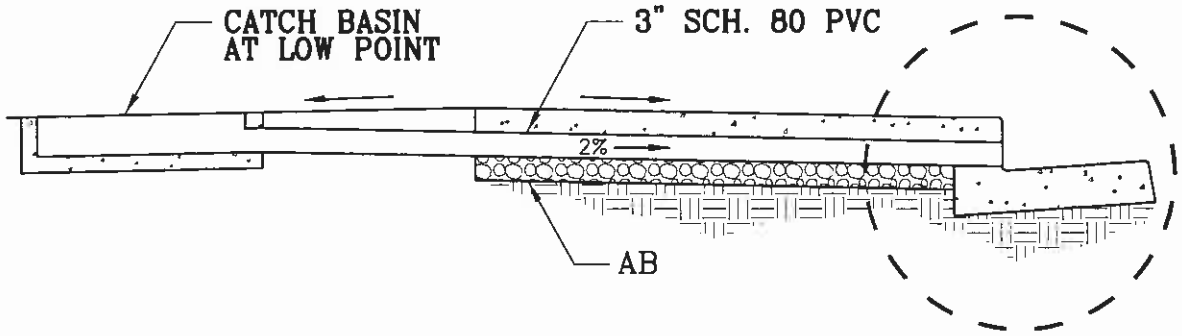
STREET NAME SIGNS		SHEET 2 OF 2
DATE: AUGUST, 2008	SCALE: NONE	PAGE S-18
APPROVED: _____ CITY ENGINEER		

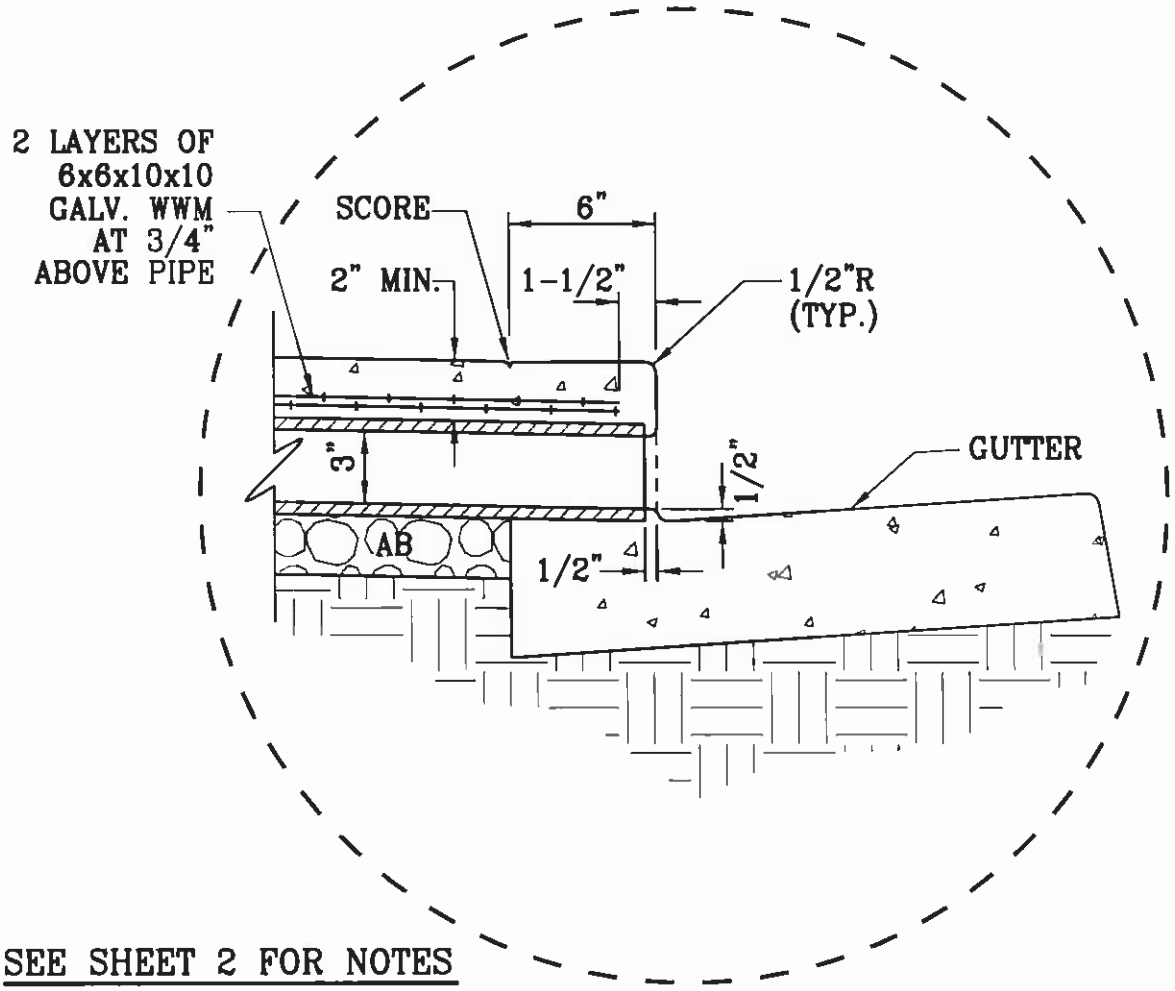
FRI, SEP 05, 2008 12:36 P BJB 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\S\S-18-1 AND 2 STREET NAME SIGNS.DWG

D- Series

(Drainage)

SEE DETAIL A-A





SEE SHEET 2 FOR NOTES

DETAIL A-A

NOTE:

ADD SCORE LINE OVER CENTER LINE OF PIPE.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	SIDEWALK UNDERDRAIN	SHEET 1 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-1
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 12:39 P BJB 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-01-1 AND 2 CURB DRAIN .DWG

GENERAL NOTES:

1) IF MULTIPLE CONDUITS ARE USED, SPACE 4" CLEAR BETWEEN EACH CONDUIT.

2) MAXIMUM RECTANGULAR CONDUIT SHALL BE 3"x 6".

3) NUMBER AND SIZE OF CONDUITS FOR SPECIFIED DRAINAGE AREA:

SIZE		3" ϕ	2-3" ϕ	3" ⊕	3"x 4"	3"x 5"	3"x 6"
⊕ AREA	PARKING LOT	2000	4000	4000	5000	6500	8000
DRAINED	RESIDENTIAL	5000	10000	6200	10000	13000	16000

4) CONDUIT SHALL BE STEEL OR PVC (MINIMUM SCHEDULE 80) OR AS APPROVED BY THE CITY ENGINEER.

5) OUTLET THROUGH EXISTING CURBS MAY BE CORED.

FRI, SEP 05, 2008 12:39 P BJB 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-01-1 AND 2 CURB DRAIN .DWG

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

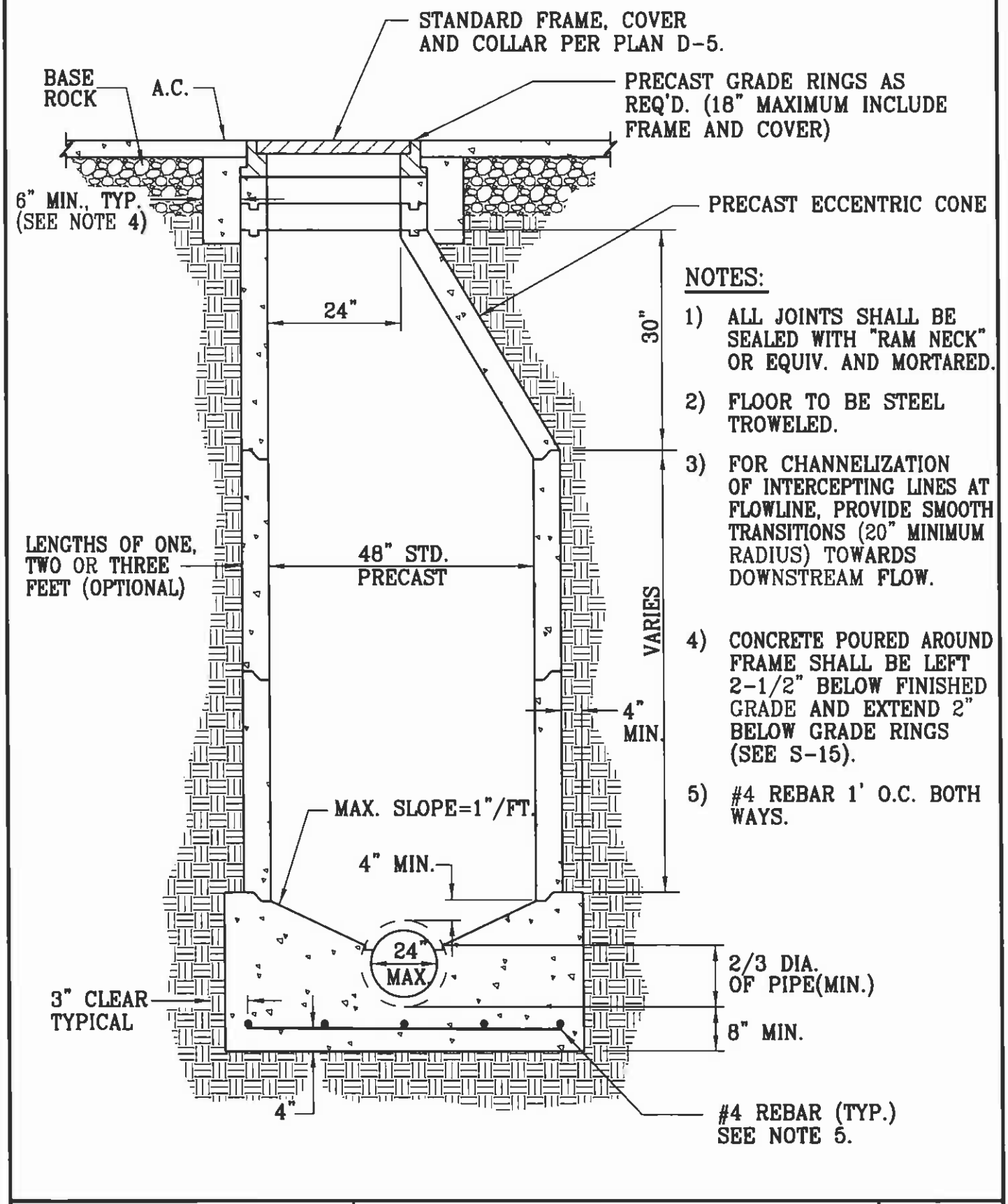
SIDEWALK UNDERDRAIN

SHEET 2 OF 2

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

PAGE D-1



NOTES:

1) ALL JOINTS SHALL BE SEALED WITH "RAM NECK" OR EQUIV. AND MORTARED.
2) FLOOR TO BE STEEL TROWELED.
3) FOR CHANNELIZATION OF INTERCEPTING LINES AT FLOWLINE, PROVIDE SMOOTH TRANSITIONS (20" MINIMUM RADIUS) TOWARDS DOWNSTREAM FLOW.
4) CONCRETE POURED AROUND FRAME SHALL BE LEFT 2-1/2" BELOW FINISHED GRADE AND EXTEND 2" BELOW GRADE RINGS (SEE S-15).
5) #4 REBAR 1' O.C. BOTH WAYS.

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

STORM MANHOLE #1
24" DIAMETER MAXIMUM

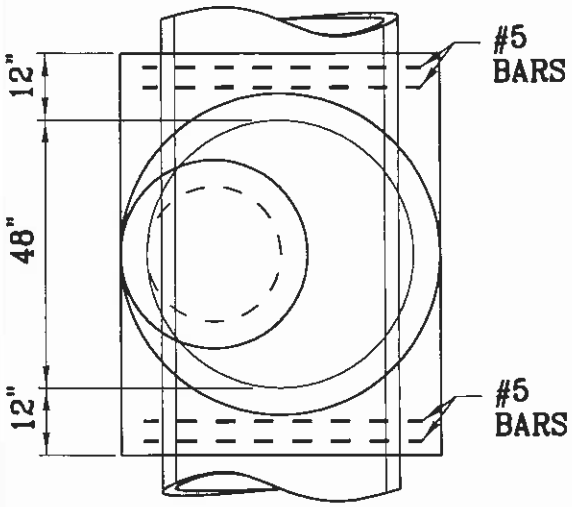
DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: CITY ENGINEER

SHEET 1 OF 1

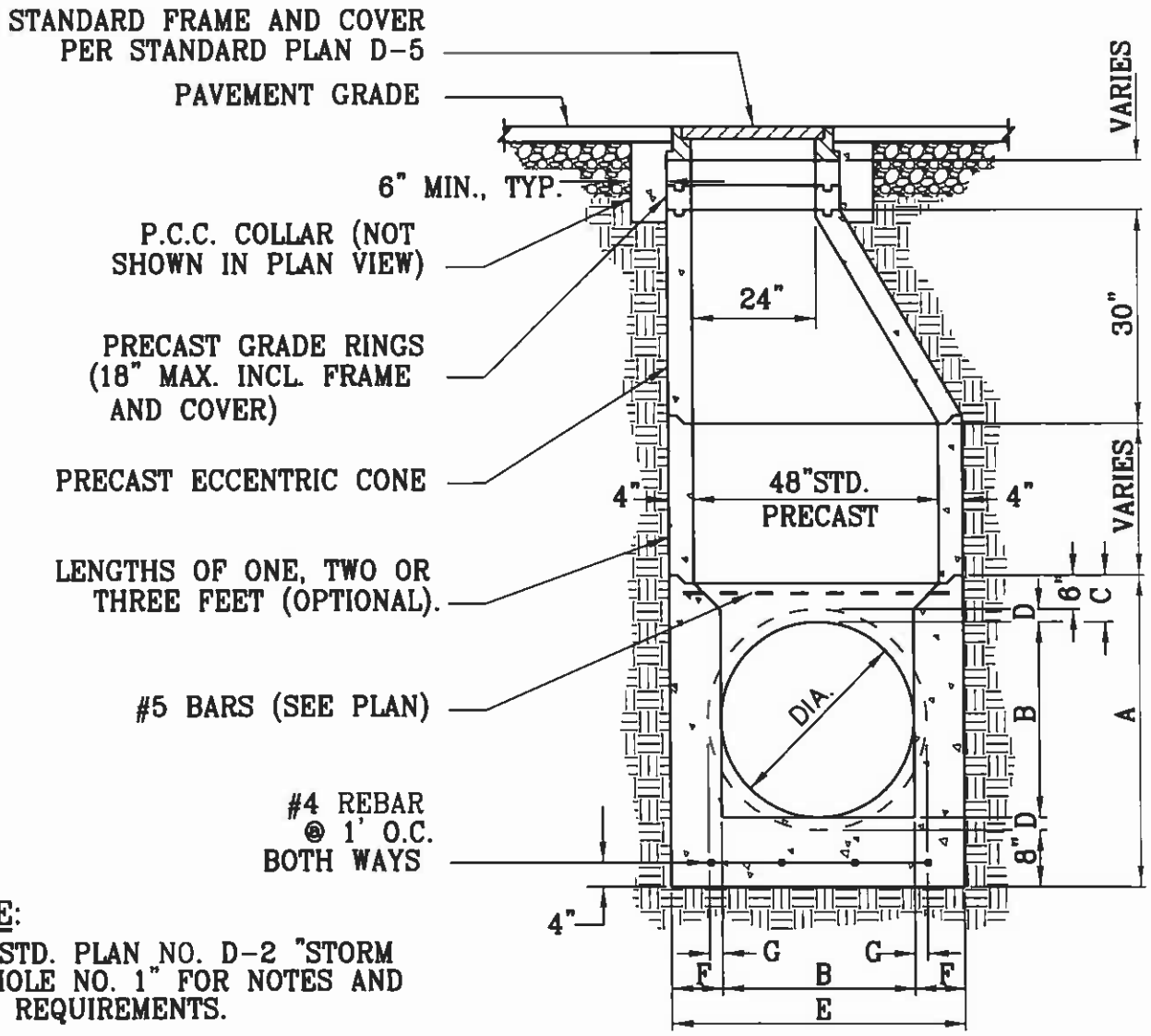
PAGE D-2

FRI, SEP 05, 2008 12:40 P BJB D-2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-02 MH.DWG



TABLE

DIA.	A	B	C	D	E	F	MIN. G
27"	43"	27"	9"	3"	56"	14-1/2"	3"
30"	46"	30"	9"	3"	56"	13"	3"
36"	53"	36"	9-1/2"	3-1/2"	56"	10"	3-1/2"
42"	60"	42"	10"	4"	60"	9"	4"
48"	68"	48"	11"	5"	66"	9"	5"



NOTE:

SEE STD. PLAN NO. D-2 "STORM MANHOLE NO. 1" FOR NOTES AND STEP REQUIREMENTS.

CITY OF CLAYTON
Founded 1857 ...Incorporated 1964

STORM MANHOLE #2
27" TO 48" DIAMETER

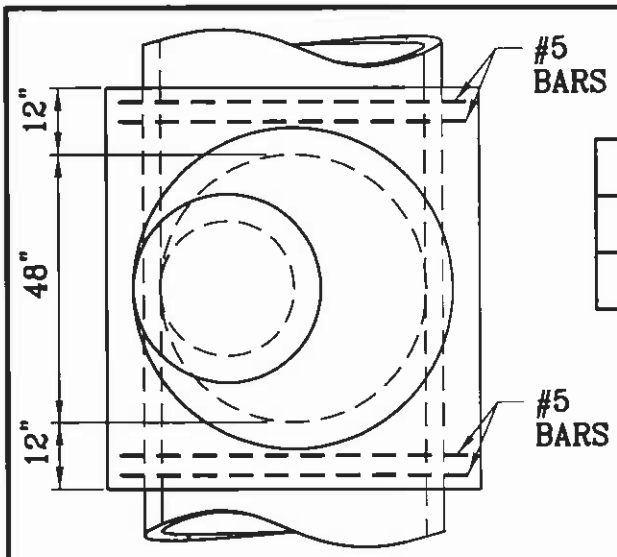
SHEET 1 OF 1

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: CITY ENGINEER

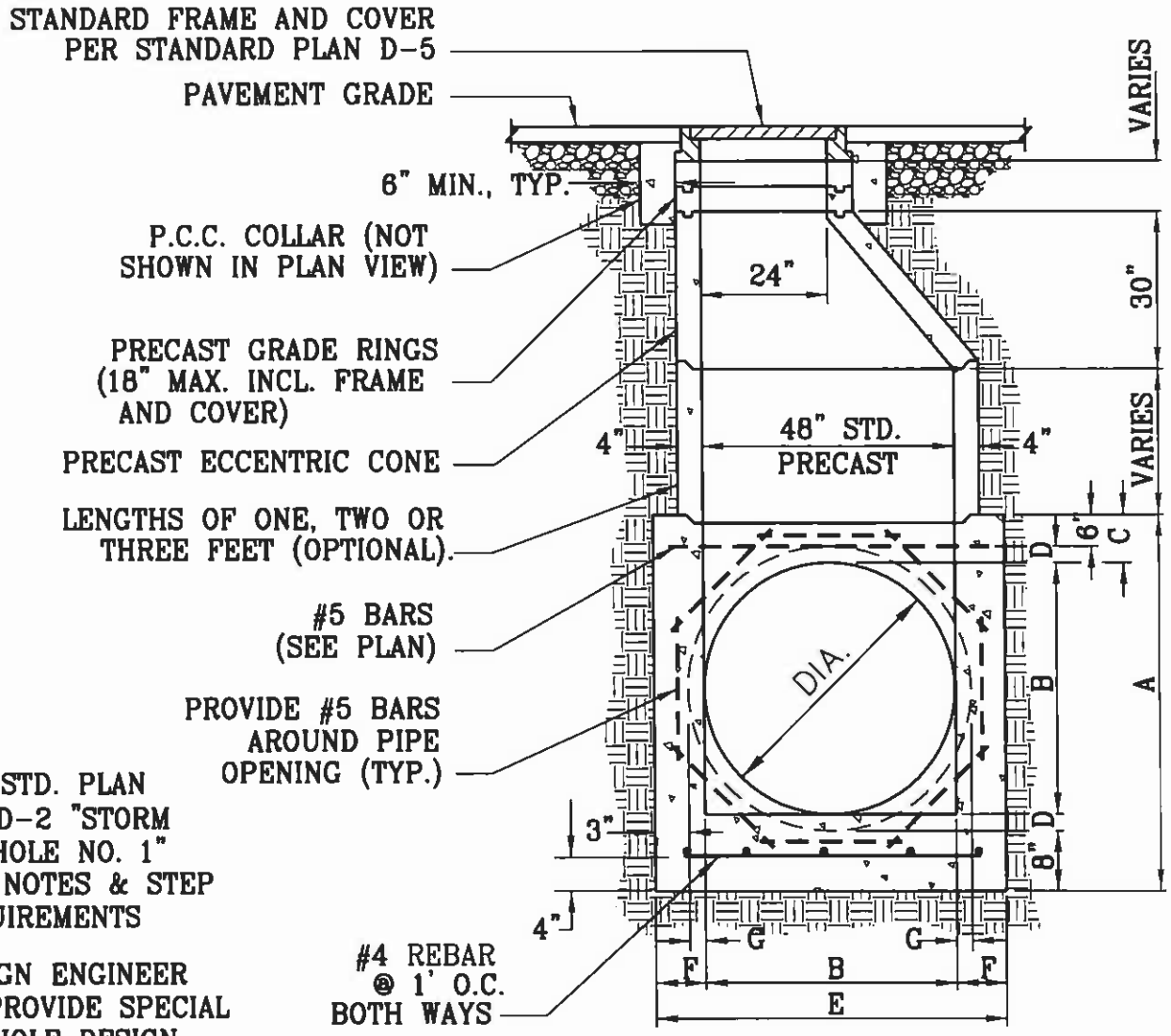
PAGE D-3

FRI, SEP 05, 2008 12:47 P BJB D-3 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-03 MH .DWG



TABLE

DIA.	A	B	C	D	E	F	MIN. G
54"	75"	54"	11-1/2"	5-1/2"	75"	10-1/2"	5-1/2"
60"	82"	60"	12"	6"	82"	11"	6"



NOTES:

1) SEE STD. PLAN NO. D-2 "STORM MANHOLE NO. 1" FOR NOTES & STEP REQUIREMENTS

2) DESIGN ENGINEER TO PROVIDE SPECIAL MANHOLE DESIGN FOR D > 60"

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

STORM MANHOLE #3
54" TO 60" DIAMETER

SHEET 1 OF 1

DATE: AUGUST, 2008 SCALE: NONE

APPROVED: CITY ENGINEER

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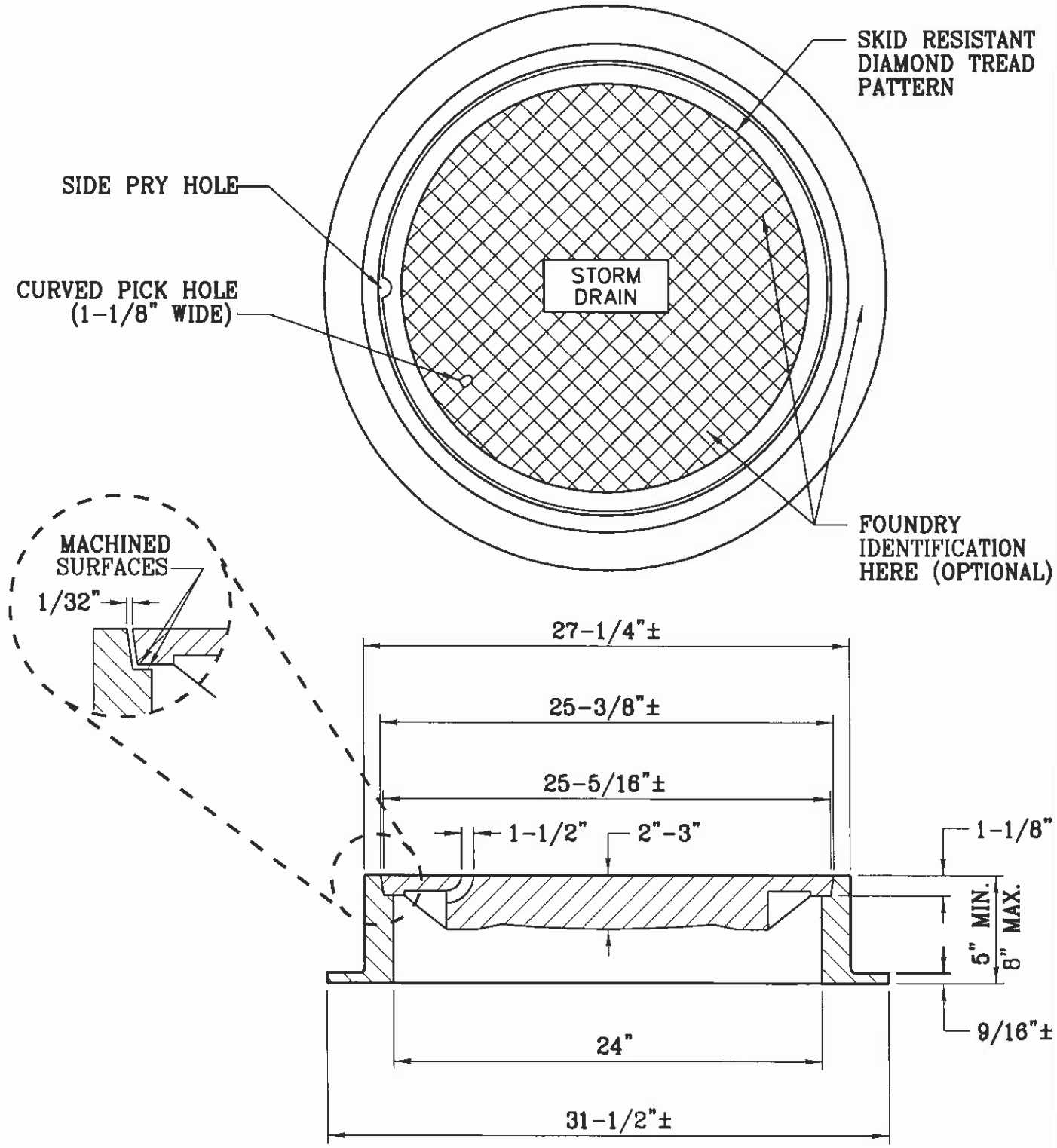
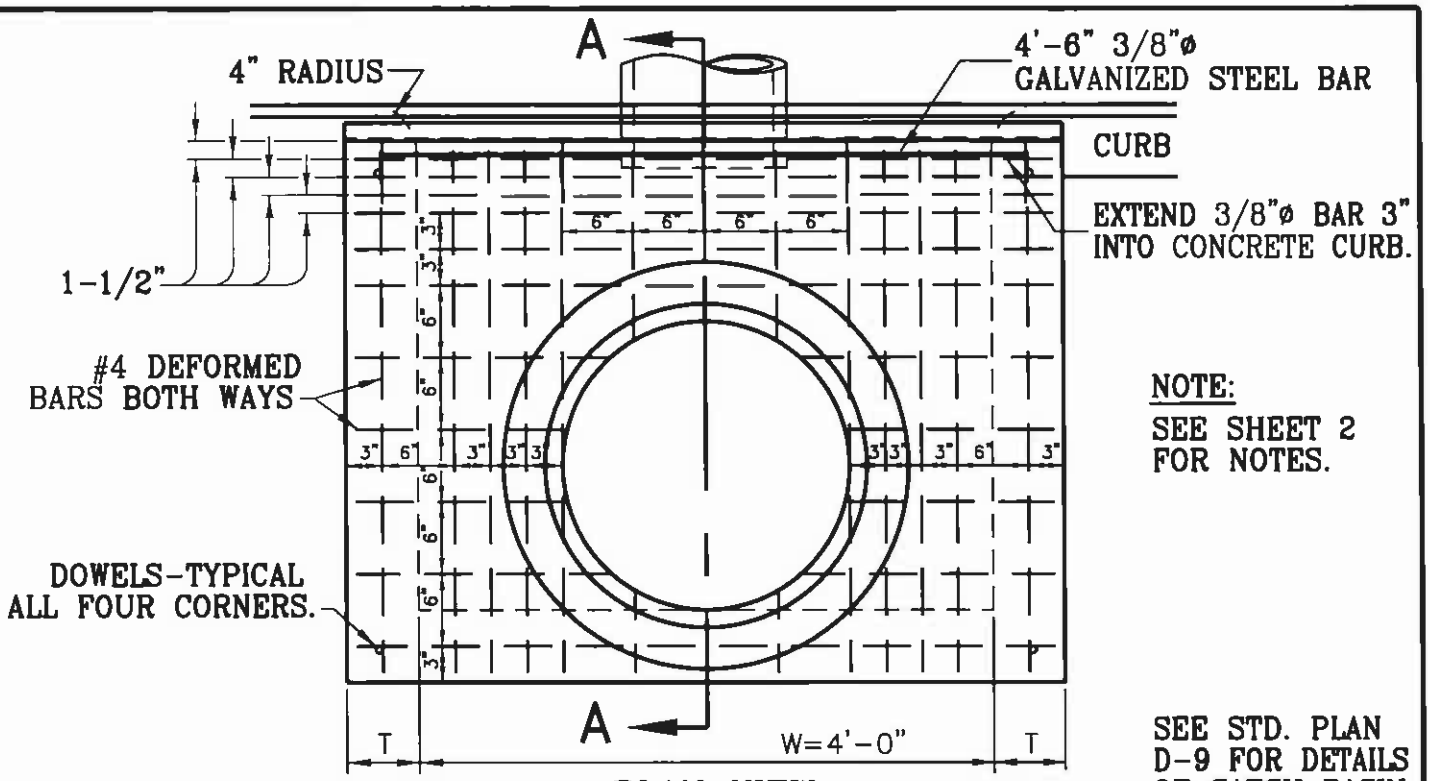
FRI, SEP 05, 2008 12:48 P BJB D-4 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-04 MH .DWG



NOTE:
MINIMUM WEIGHT OF SET 320 LBS.

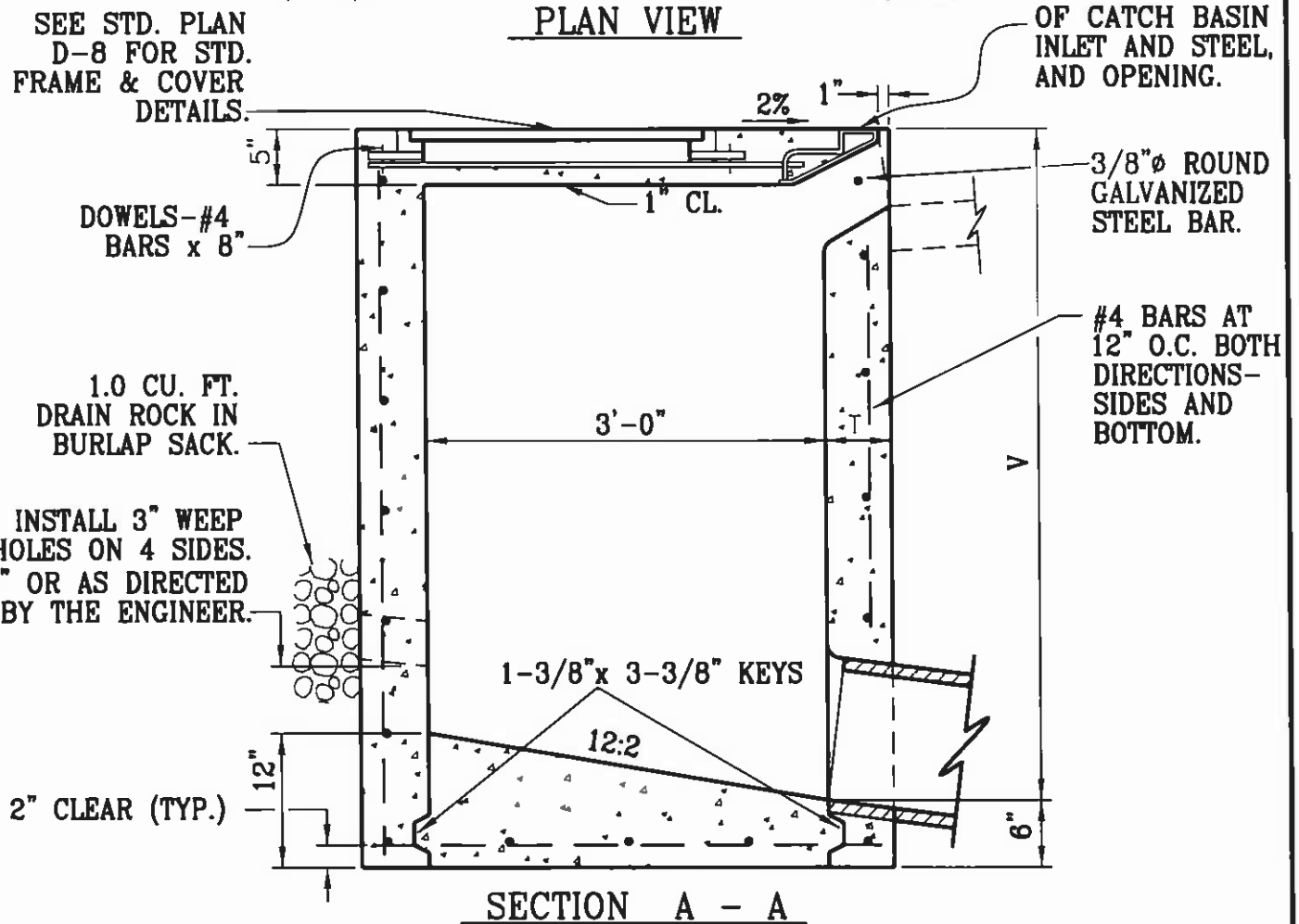
CITY OF CLAYTON *Founded 1857 ...Incorporated 1964*	MANHOLE FRAME & COVER		SHEET 1 OF 1
	DATE: AUGUST, 2008	SCALE: NONE	PAGE D-5
	APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 12:49 P BJB D-5 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-05 MH LID.DWG



NOTE:
SEE SHEET 2 FOR NOTES.

PLAN VIEW



SECTION A - A

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	CATCH BASIN TYPE "A"	SHEET 1 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-6
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 12:50 P BJB 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-06-1 AND 2 CB-A.DWG

NOTES:

1) CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS CONSISTENT WITH THE IMPROVEMENT PLANS (EXCEPT THE PIPE SHALL NOT ENTER AT THE CORNERS OF THE CATCH BASIN).

2) CONNECTION PIPES SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.

3) CURVATURE OF THE LIP AND SIDEWALLS AT GUTTER OPENING SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE MADE BY PLASTERING.

4) DIMENSIONS:

   V=4 FEET MINIMUM UNLESS APPROVED BY THE CITY ENGINEER.
   T=6 INCHES IF V IS 4 FEET OR LESS.
   T=8 INCHES IF V IS BETWEEN 4 FEET AND 8 FEET.
   T=10 INCHES IF V IS 8 FEET OR MORE.

5) STEPS SHALL BE 14" WIDE, 3/4" DIAMETER, PLAIN, ROUND GALVANIZED STEEL STEPS SPACED AS FOLLOWS:

   IF V IS 3-1/2 FEET OR LESS, NO STEPS REQUIRED;
   IF V IS BETWEEN 3-1/2 FEET AND 4 FEET, INSTALL 1 STEP 12" ABOVE THE FLOOR OF THE BASIN;
   IF V IS MORE THAN 4 FEET, INSTALL STEPS 17" APART WITH THE TOP STEP 6" BELOW THE TOP OF THE BASIN.

6) ALL STEPS SHALL BE 4" FROM THE WALL, EXCEPT THE TOP STEP WHICH SHALL BE 2-1/2" FROM THE WALL.

7) THE FLOOR OF THE BASIN SHALL BE TROWELED AND RETROWELED TO PRODUCE A HARD, POLISHED SURFACE OF MAXIMUM DENSITY AND SMOOTHNESS. SLOPE OF FLOOR SHALL BE 12:2 TOWARDS THE OUTLET PIPE.

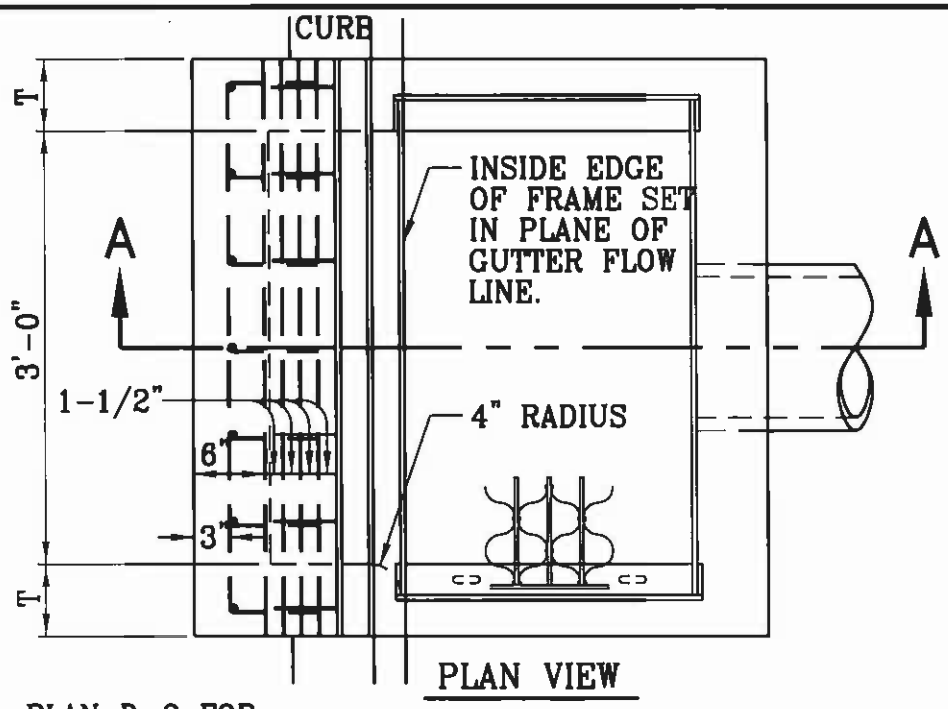
8) KEYS REQUIRED ONLY WHEN FLOOR IS POURED SEPARATE FROM THE WALLS.

9) CATCH BASIN TOP SHALL BE POURED MONOLITHIC WITH SIDEWALK WHEN BASIN IS LOCATED WITHIN A PROPOSED SIDEWALK.

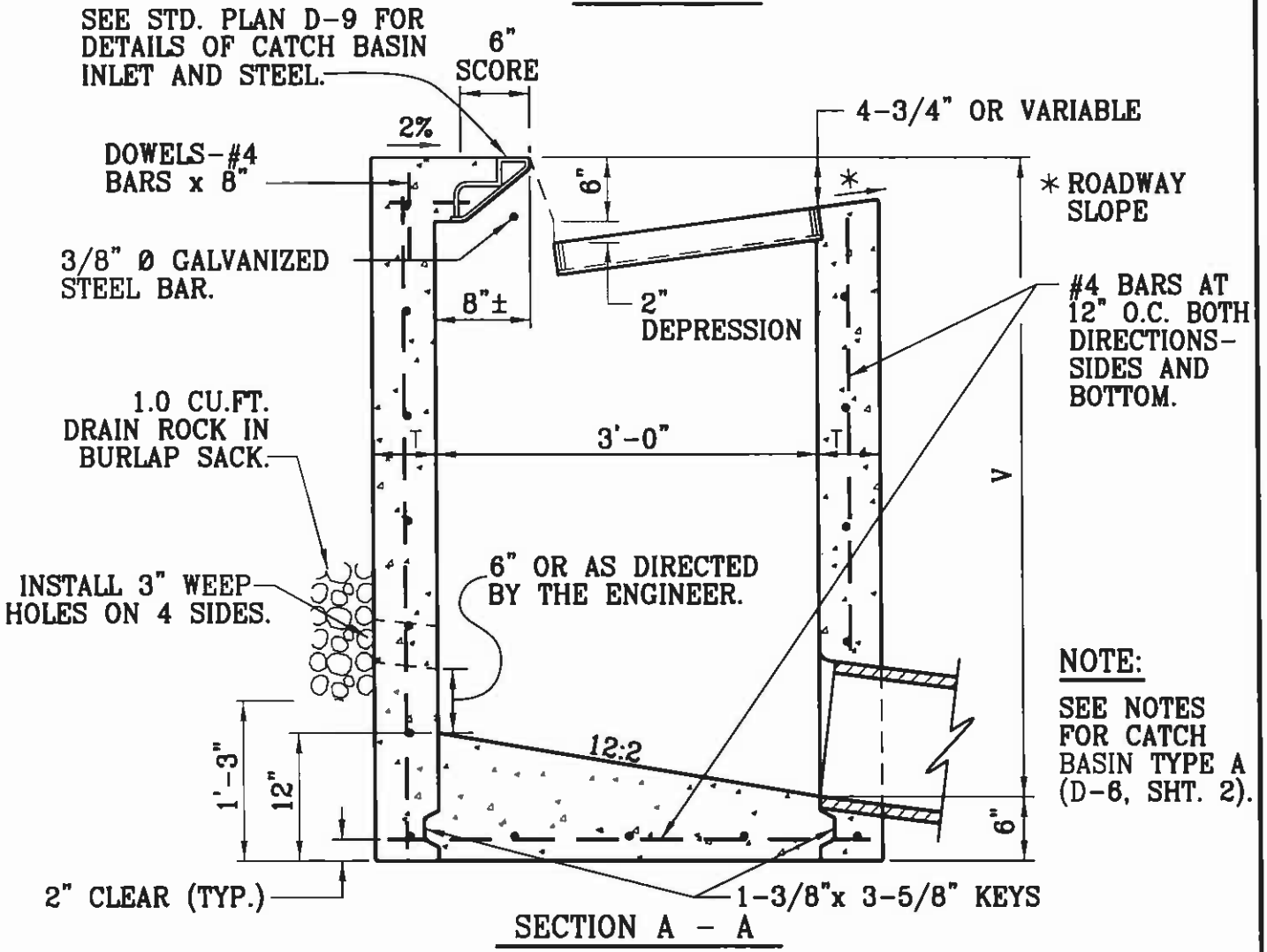
10) ADD 3/8" DIAMETER GALVANIZED STEEL BAR ACROSS OPENING. EXTEND BAR 3" INTO CONCRETE CURB.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	CATCH BASIN TYPE "A"	SHEET 2 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-6
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 12:50 P BJB 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-06-1 AND 2 CB-A.DWG



PLAN VIEW



SECTION A - A

NOTE:

SEE NOTES FOR CATCH BASIN TYPE A (D-6, SHT. 2).

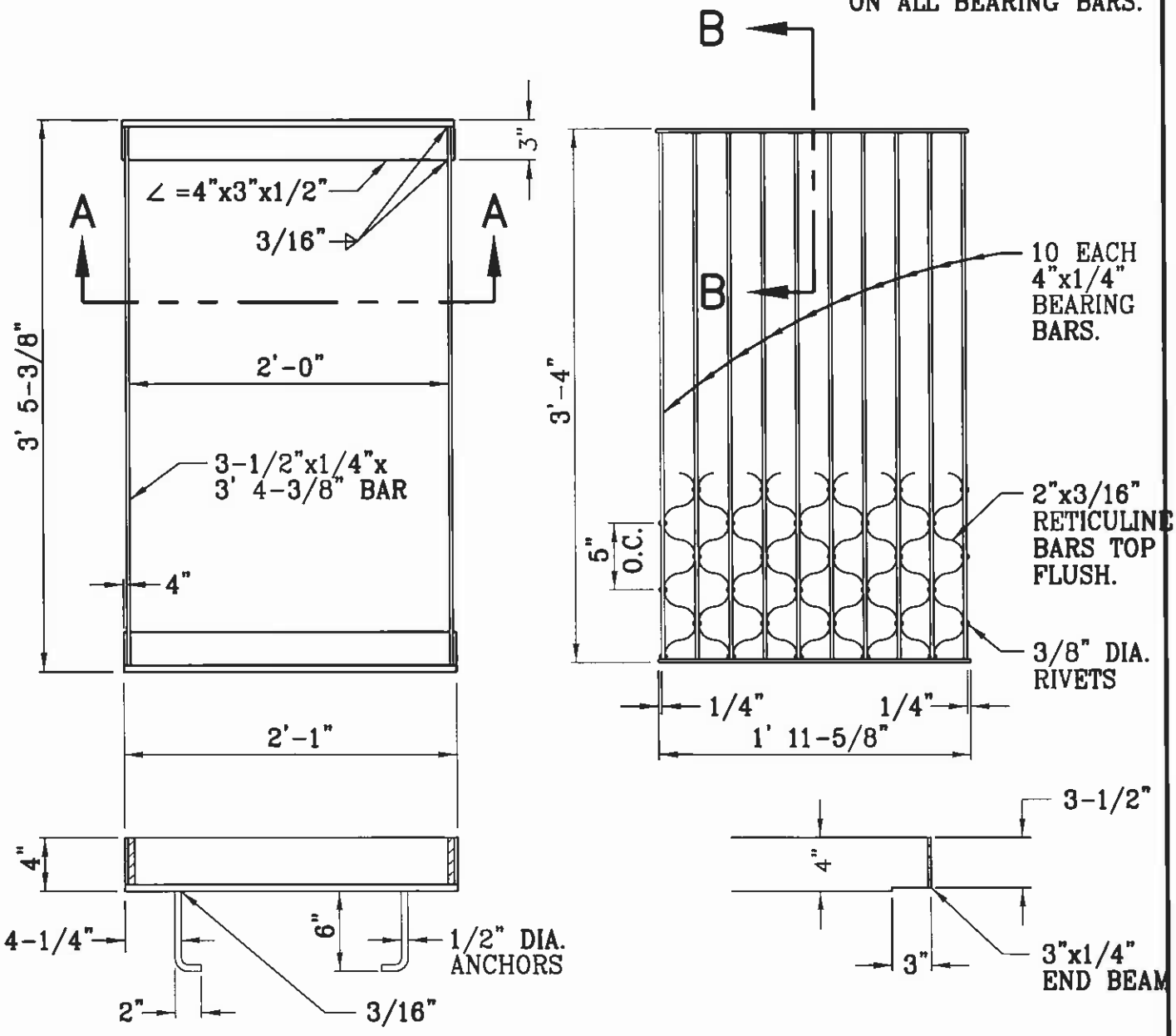
CITY OF CLAYTON

Founded 1857 ... Incorporated 1964

CATCH BASIN TYPE "B"		SHEET 1 OF 2
DATE: AUGUST, 2008	SCALE: NONE	PAGE D-7
APPROVED:	CITY ENGINEER	

FRI, SEP 05, 2008 12:57 P BJB 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-07-1 AND 2 CB-B.DWG

NOTE:
3/16" FILET WELD
FULL DEPTH EACH SIDE
ON ALL BEARING BARS.



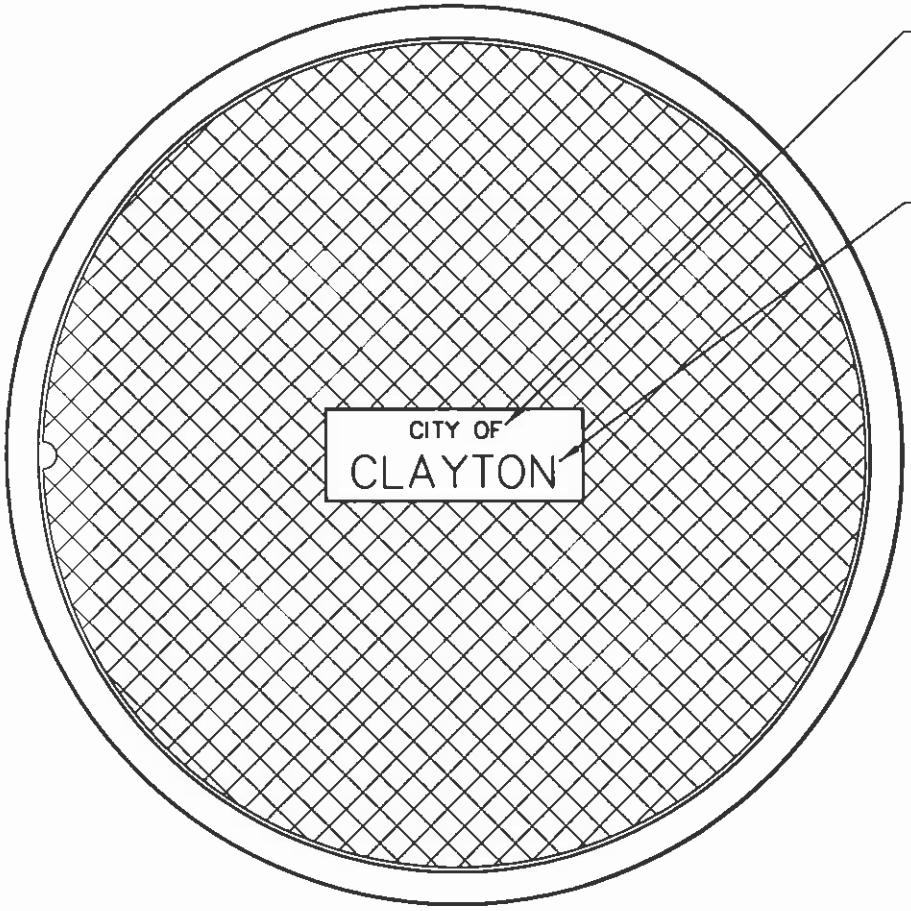
SECTION A-A

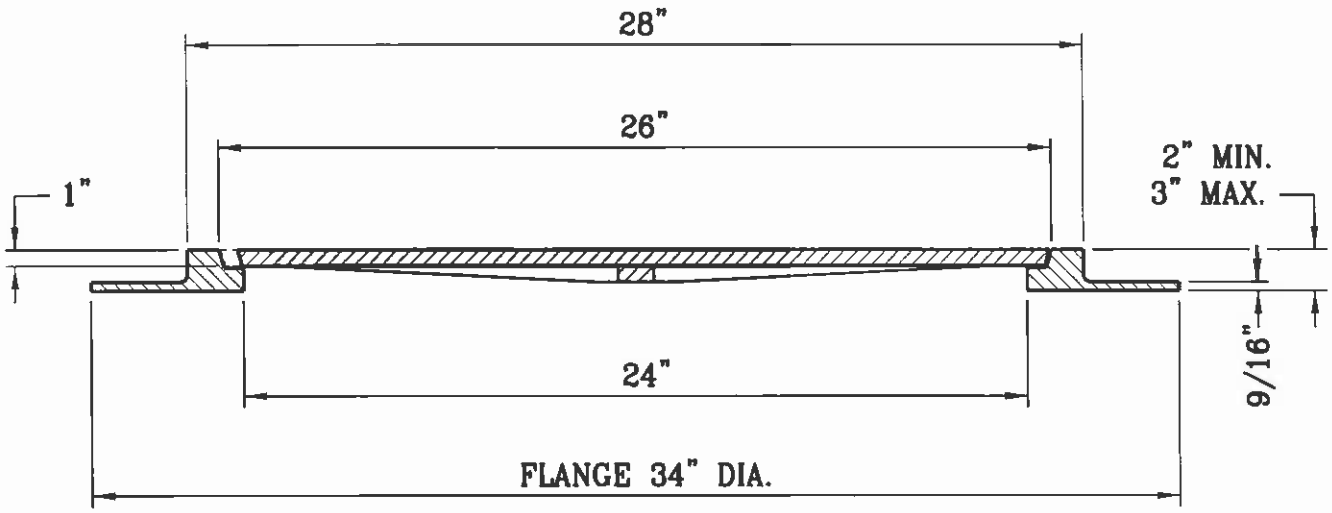
SECTION B-B

FRAME AND GRATE DETAIL

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**CATCH BASIN TYPE "B"**	SHEET 2 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-7
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 12:58 P BJB 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-07-1 AND 2 CB-B.DWG





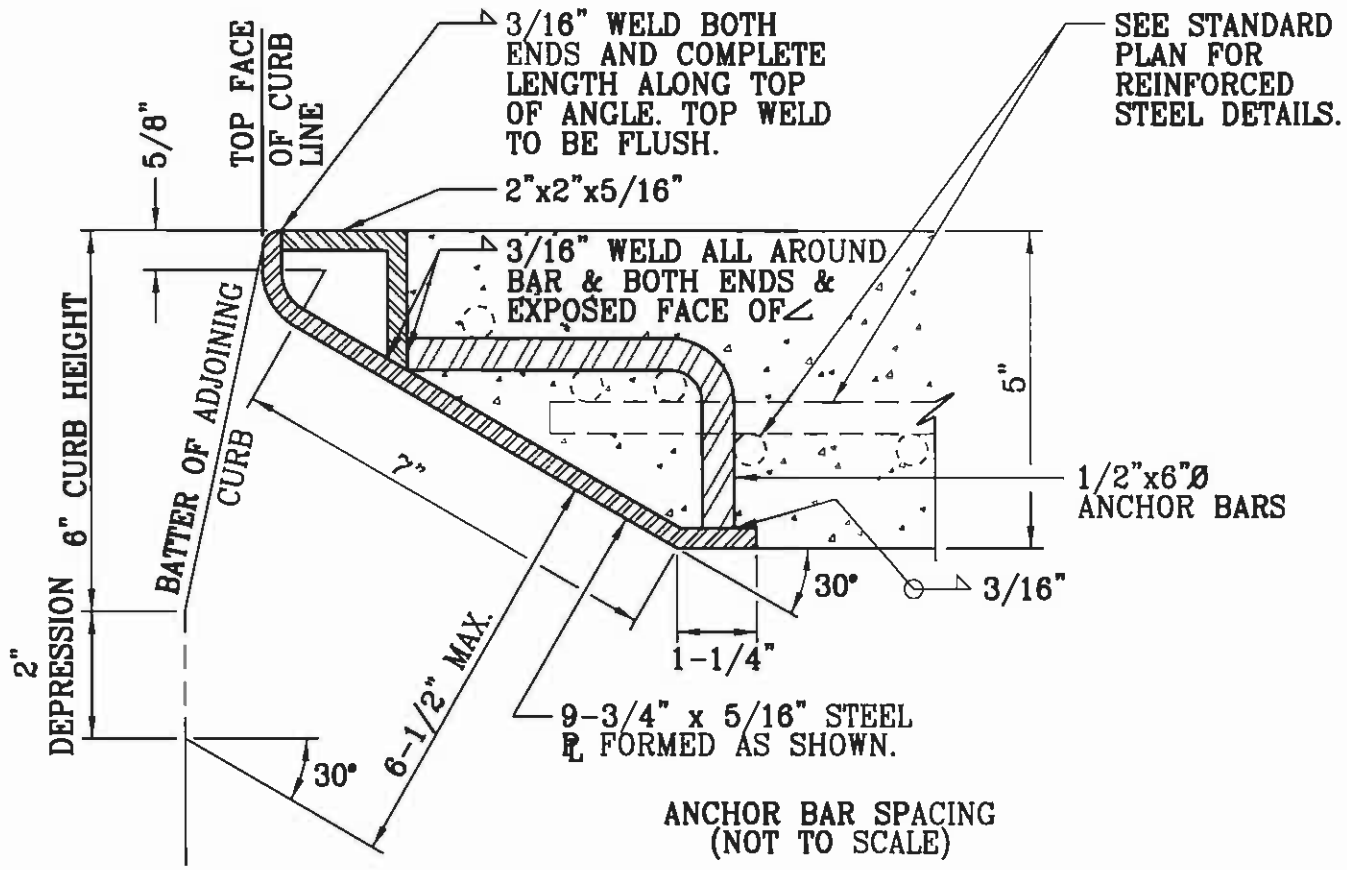
NOTES:

1) FRAME AND COVER TO BE CAST IRON.
2) LETTERS TO BE RAISED 1/8".

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

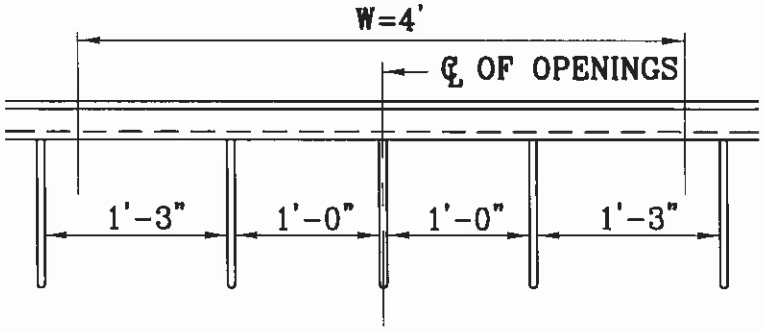
CATCH BASIN FRAME & COVER			SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE		PAGE D-8
APPROVED: _____ CITY ENGINEER			

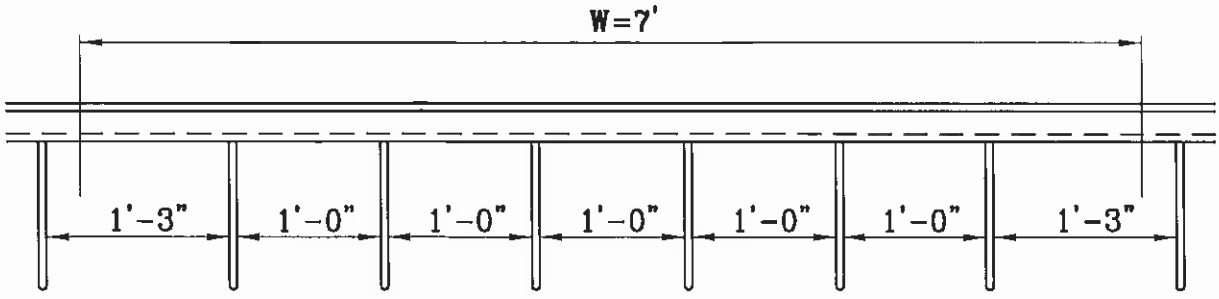
FRI, SEP 05, 2008 12:59 P BJB D8 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-08 SD MH LID.DWG



ANCHOR BAR SPACING
(NOT TO SCALE)

℄ & ∠ LENGTH=5'-0" W=4'
℄ & ∠ LENGTH=8'-0" W=7'





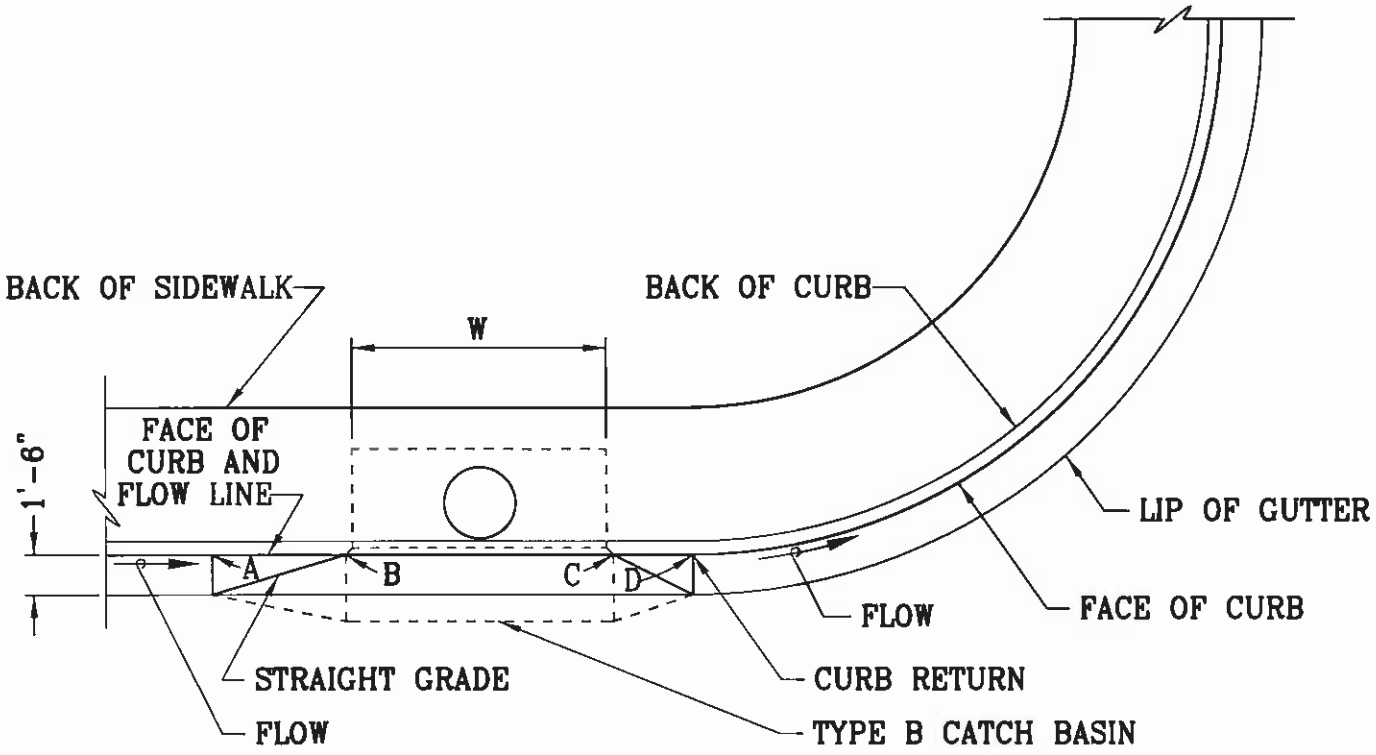
NOTE:

STEEL ℄ ∠, AND ANCHOR BARS TO BE ASSEMBLED AS ONE UNIT PRIOR TO GALVANIZING.

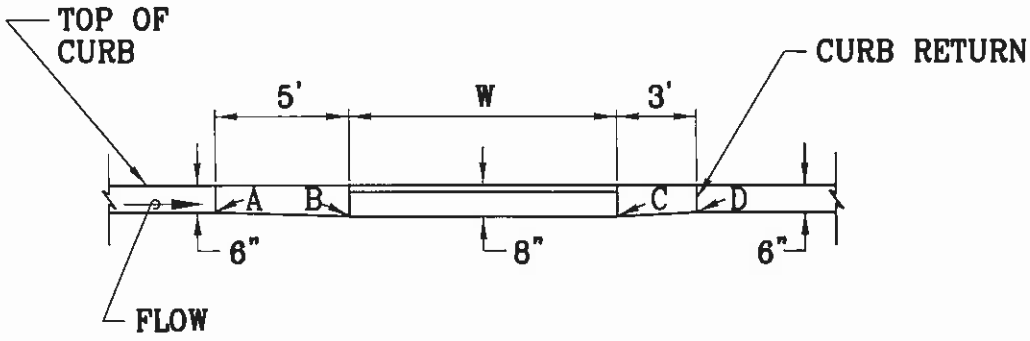
CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

CATCH BASIN INLET AND STEEL DETAILS		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE D-9
APPROVED: _____ CITY ENGINEER		

FRI, SEP 05, 2008 01:03 P BJB 09 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-09 CB INLET.DWG



PLAN



PROFILE

NOTES:

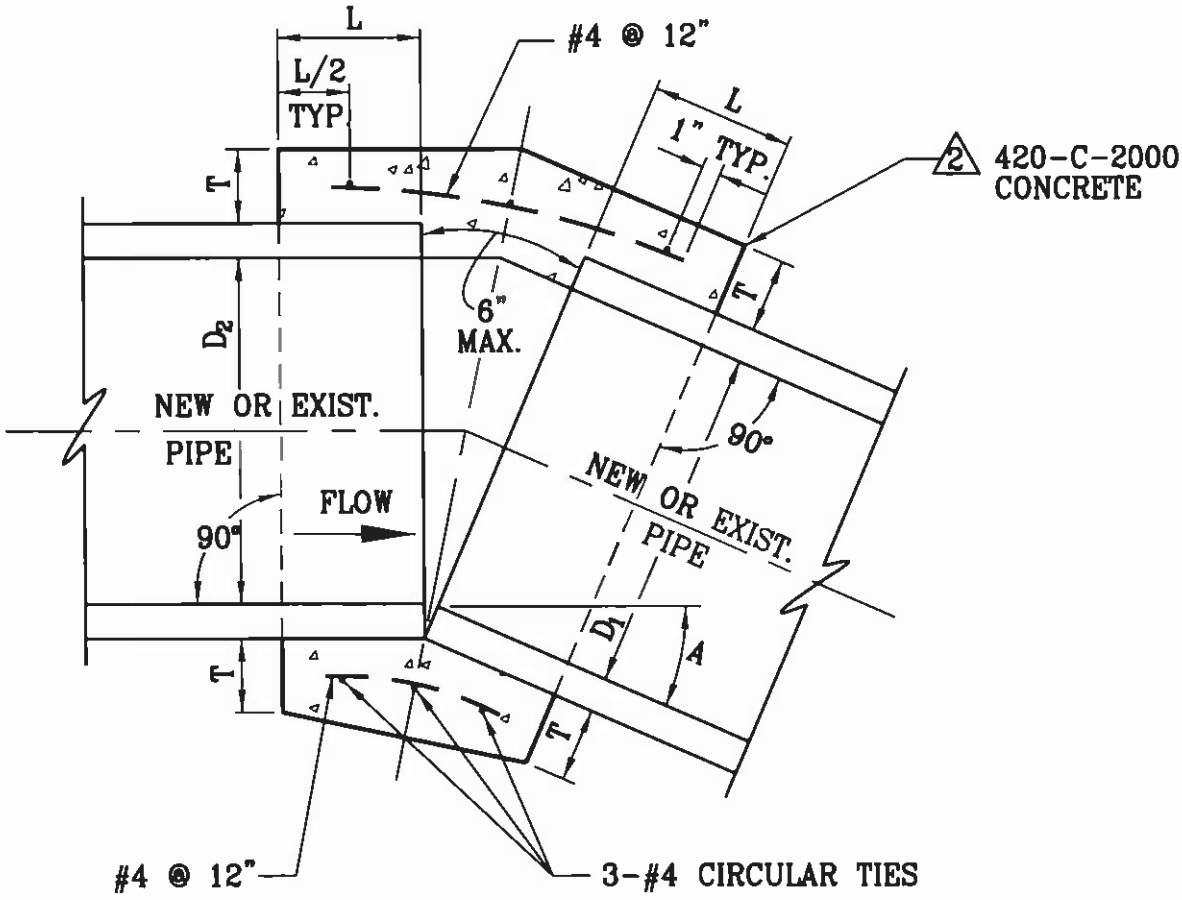
1) W = 4', OR AS NOTED ON CONSTRUCTION PLANS.
2) IN A SUMP CONDITION, INCREASE DISTANCE FROM "C" TO "D" TO 5'.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	GUTTER WARPING DETAILS FOR CATCH BASINS	SHEET 1 OF 1
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-10
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 01:04 P BJB D-10 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-10 GUTTER WARPING DETLS.DWG

TABLE

D	L	T
12"	1.0'	4"
18"	1.0'	5"
24"	1.0'	6"
36"	1.5'	8"
48"	1.5'	10"
57"	1.5'	10"
60"	1.75'	11"
66"	1.75'	11"



FOR PIPES 12" THROUGH 66"

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	CONCRETE COLLAR	SHEET 1 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-11
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 01:07 P BJB D-11 SHT 1 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-11-1&2 CONC COLLAR.DWG

NOTES:

1) CONCRETE COLLARS MAY BE USED ONLY IF APPROVED BY CITY ENGINEER.

2) WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE.

3) FOR PIPE LARGER THAN 66", A SPECIAL COLLAR DETAIL IS REQUIRED.

4) FOR PIPE SIZE NOT LISTED, USE NEXT LARGER SIZE.

5) OMIT REINFORCING ON PIPES 24" AND LESS IN DIAMETER AND ON ALL PIPES WHERE ANGLE A IS LESS THAN 10°.

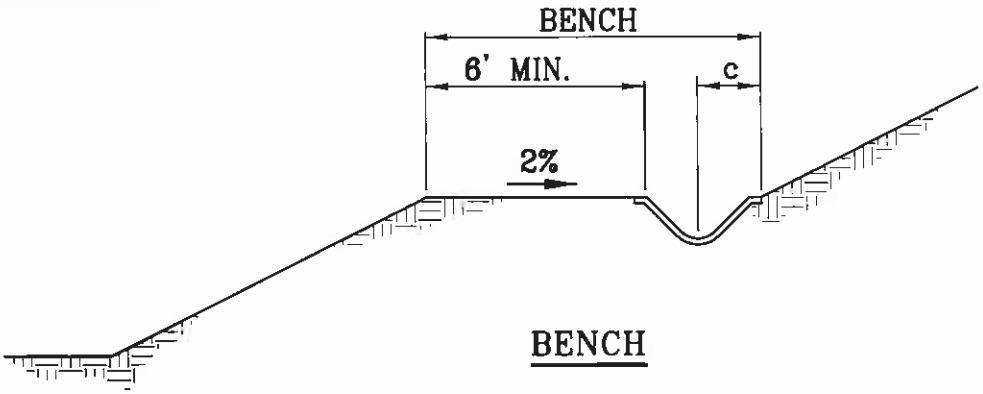
6) WHERE REINFORCING IS REQUIRED, THE DIAMETER OF THE CIRCULAR TIES SHALL BE D + (2 x WALL THICKNESS) +8".

7) WHEN D_1, IS EQUAL TO OR LESS THAN D_2, JOIN INVERTS, AND WHEN D_1 IS GREATER THAN D_2, JOIN SOFFITS.

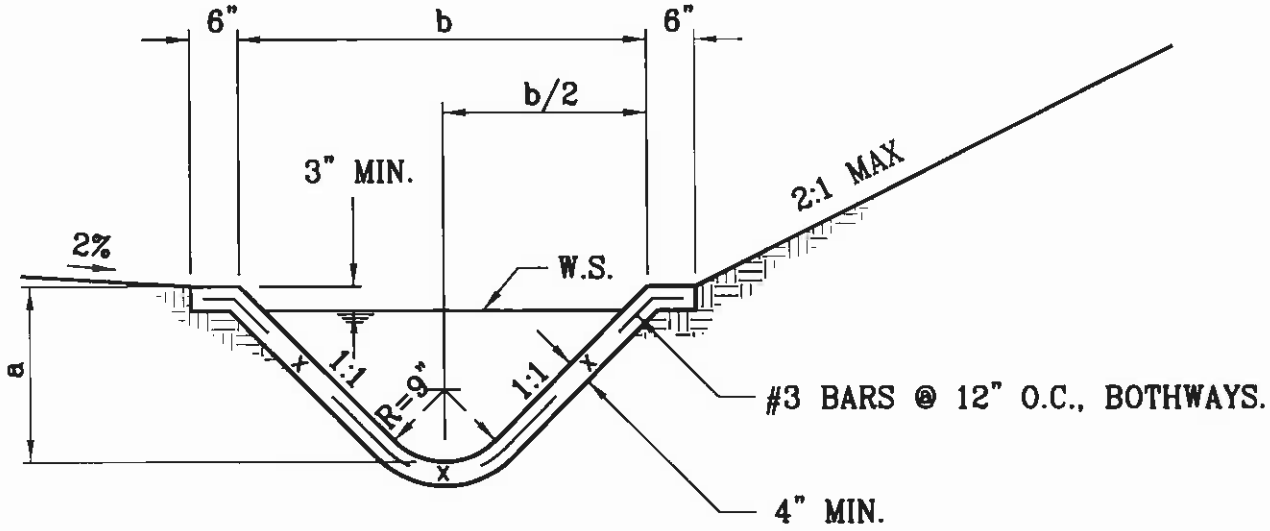
8) NOT TO BE USED FOR A SIZE CHANGE ON THE MAINLINE.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	CONCRETE COLLAR	SHEET 2 OF 2
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-11
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 01:12 P BJB D-11 SHT 2 OF 2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-11-1&2 CONC COLLAR.DWG



BENCH



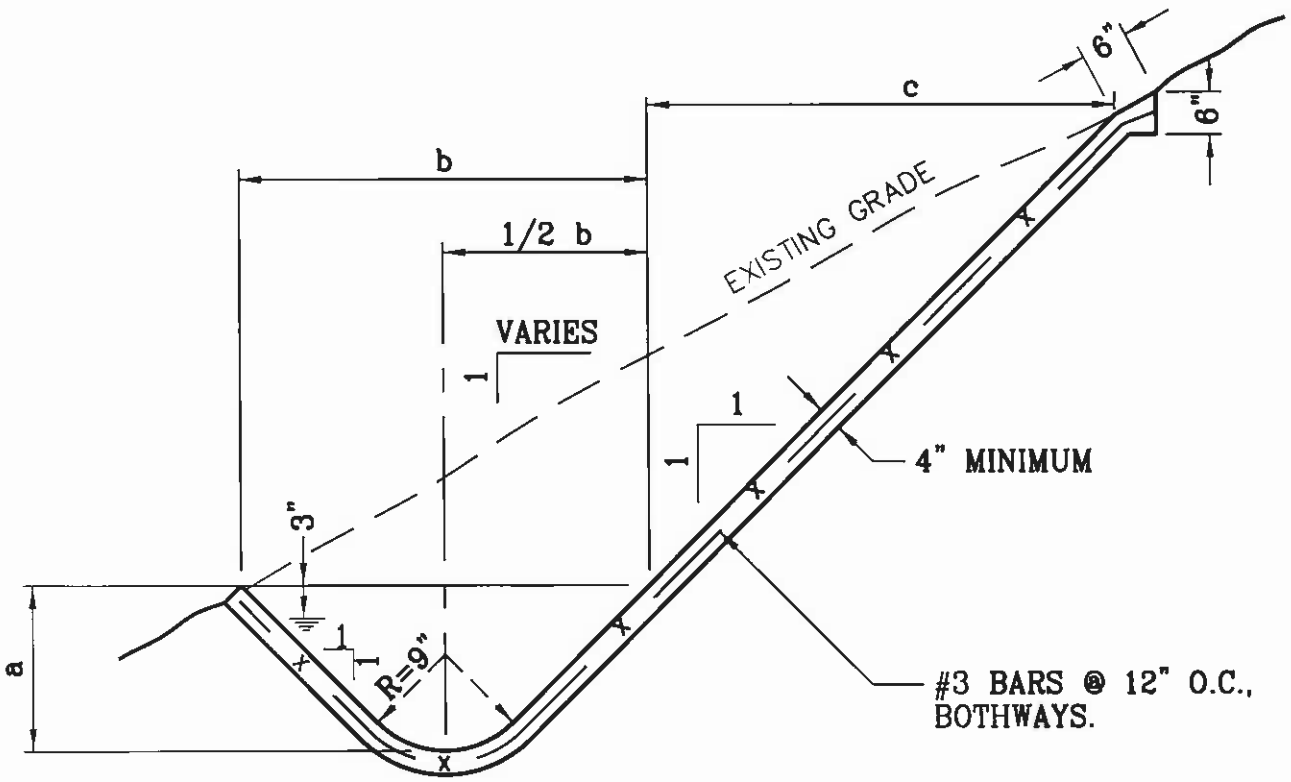
a	b	c
12"	32"	22"
15"	36"	24"
18"	42"	27"

NOTES:

1. INTERCEPTOR DITCHES SHALL BE COLORED "SEQUOIA SAND" PER THE DAVIS COLOR CHART WITH CURING COMPOUND TO MATCH.
2. MINIMUM DEPTH (a) = 12"
3. ▽ = DESIGN WATER SURFACE

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	INTERCEPTOR DITCH AND BENCH	SHEET 1 OF 1
	DATE: AUGUST, 2008 SCALE: NONE	PAGE D-12
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 01:14 P BJB D-12 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-12 INTERCEPTOR DITCH C.DWG



INTERCEPTOR DITCH FOR SLOPES 2:1 OR FLATTER AND NO BENCH AVAILABLE

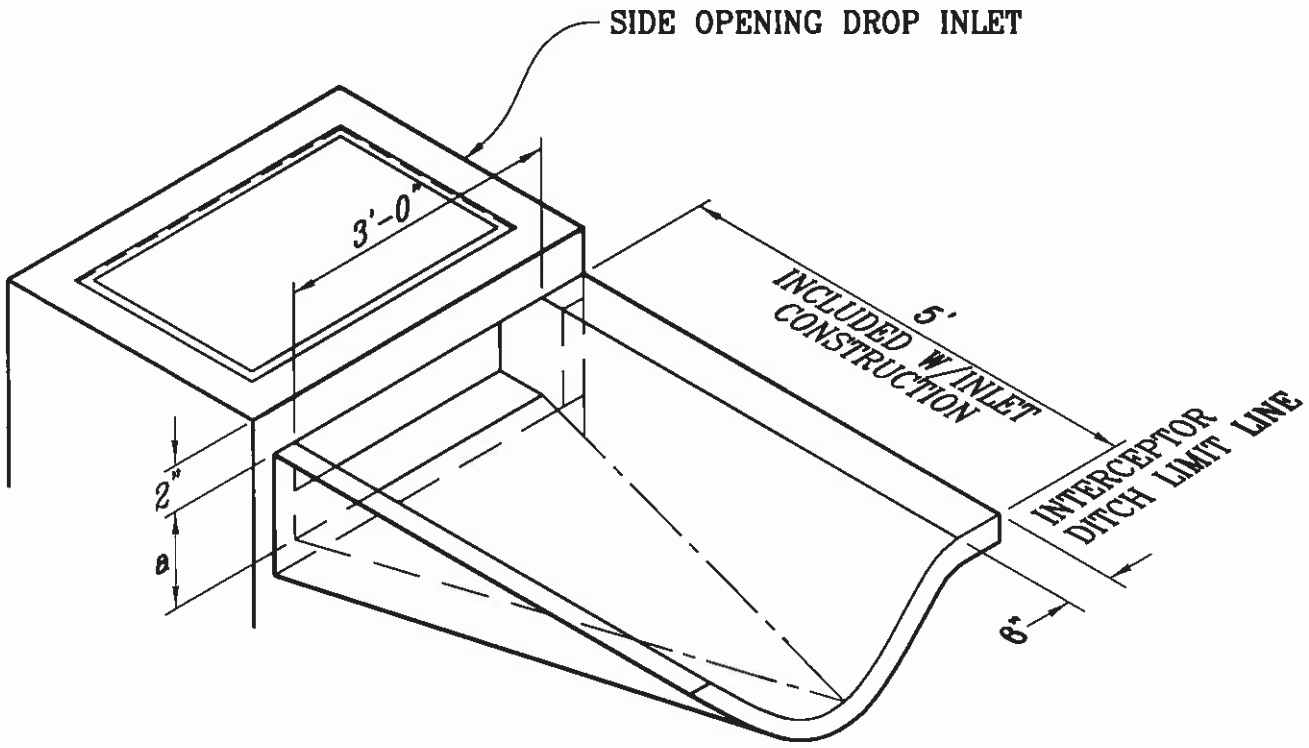
EXISTING GRADE	a	b	c
2:1	12"	24"	24"
3:1	12"	24"	12"
4:1	12"	24"	9"

NOTES:

1. INTERCEPTOR DITCHES SHALL BE COLORED "SEQUOIA SAND" PER THE DAVIS COLOR CHART WITH CURING COMPOUND TO MATCH.
2. MINIMUM DEPTH (a) = 12"
3. ⎓ = DESIGN WATER SURFACE

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**INTERCEPTOR DITCH FOR SLOPES 2:1 OR FLATTER**	SHEET **1 OF 1**
	DATE: AUGUST, 2008 SCALE: NONE	PAGE **D-13**
	APPROVED: CITY ENGINEER	

FRI, SEP 05, 2008 01:15 P BJB D13 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-13 INTERCEPTOR DITCH B.DWG



NOTES:

1. WHERE a EXCEEDS 8" - ADD HORIZONTAL 3/8"ø ROUND GALVANIZED STEEL BAR HALWAY UP OPENING.
2. a=6" MINIMUM; SIDE OPENING AREA TO EQUAL CROSS SECTION AREA OF DITCH PRIOR TO TRANSITION.

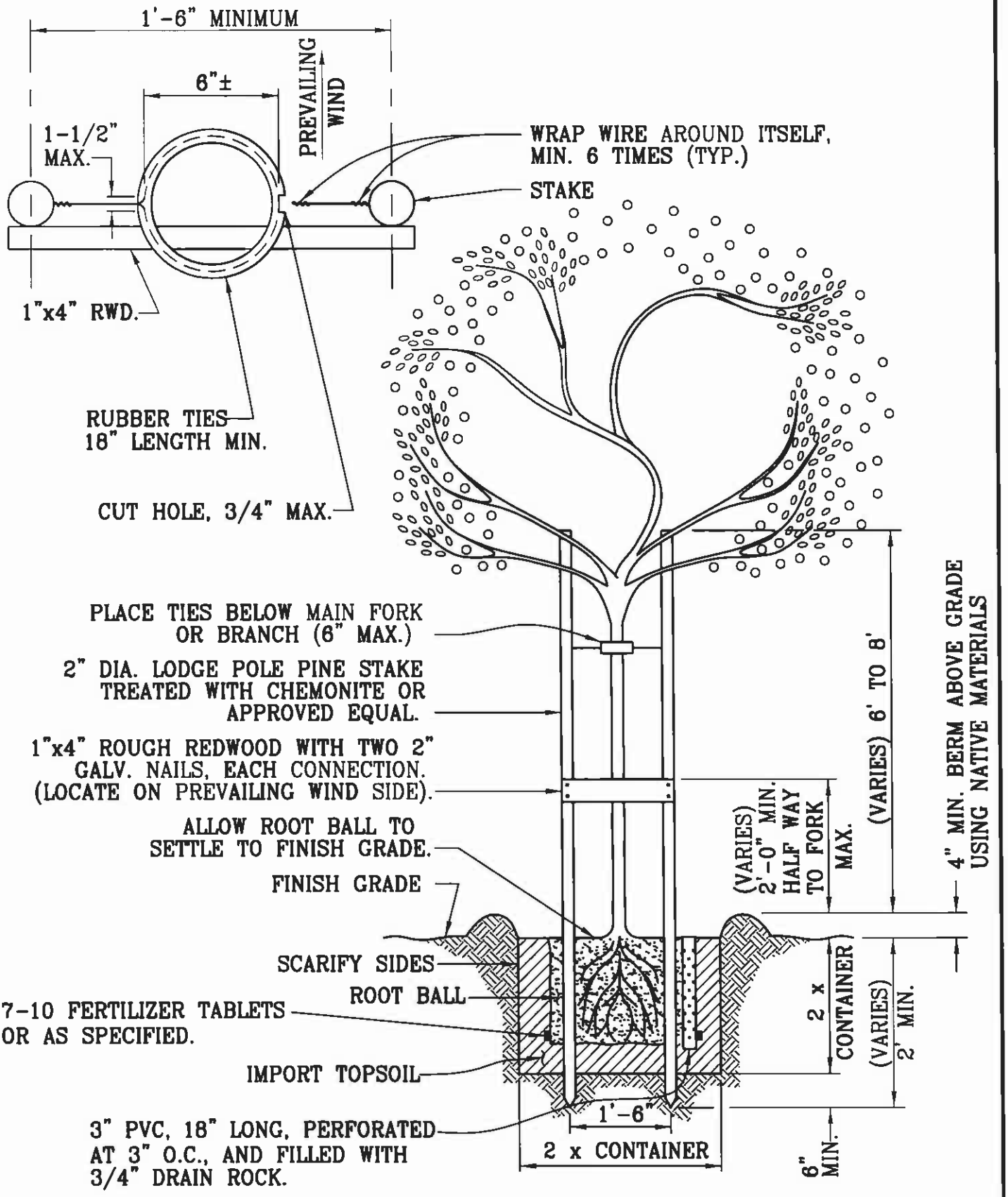
CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

CONCRETE DITCH TRANSITION AT INLET		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE D-14
APPROVED: _____ CITY ENGINEER		

TUE, SEP 09, 2008 07:12 A BJB D-14 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\D\D-14 DITCH TRANSITION .DWG

L – Series

(Landscaping)



CITY OF CLAYTON
Founded 1857 ...Incorporated 1964

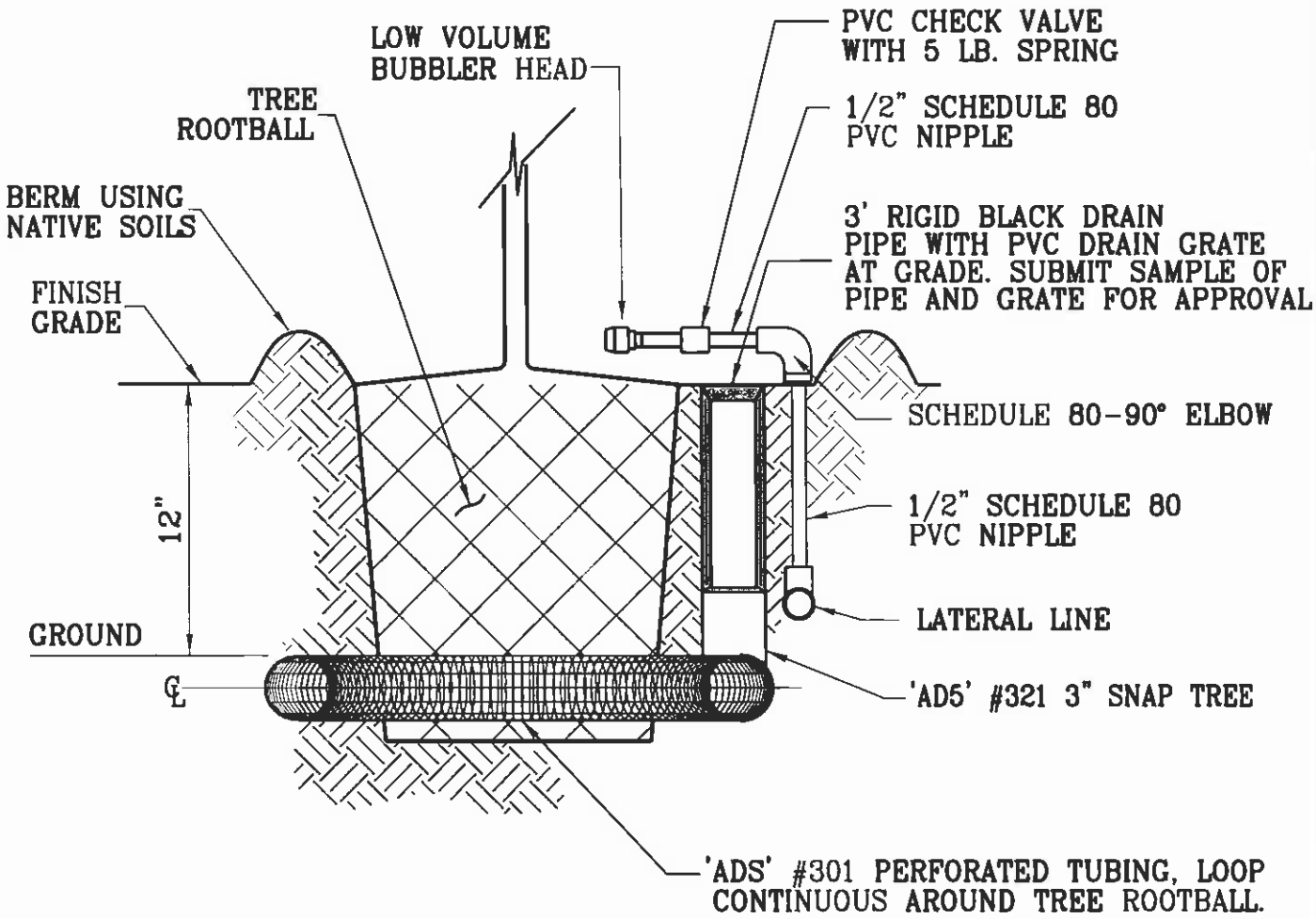
TREE PLANTING & STAKING

DATE:	AUGUST, 2008	SCALE:	NONE
APPROVED:			CITY ENGINEER

SHEET 1 OF 1

PAGE L-1

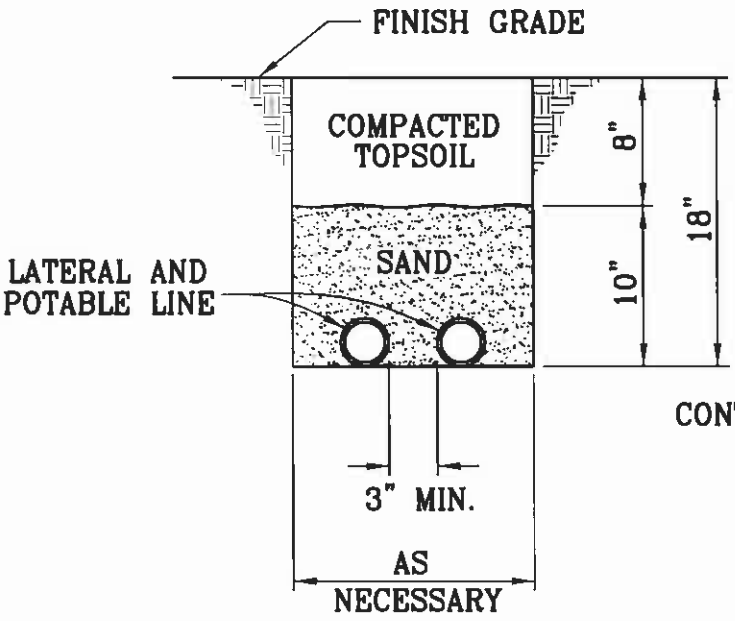
FRI, SEP 05, 2008 01:22 P BJB L1 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\L\L-01.DWG



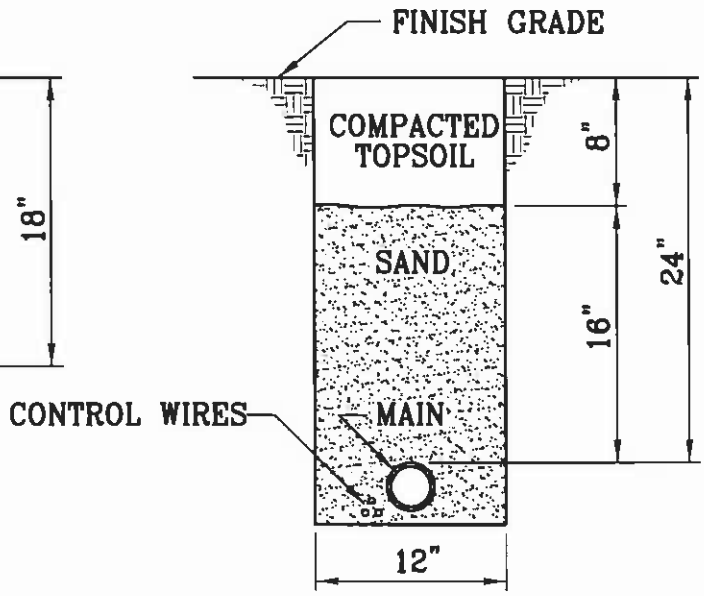
NOTE:
ALL TREES TO HAVE INSTALLED
PANEL TYPE ROOT BARRIERS

CITY OF CLAYTON *Founded 1857 ...Incorporated 1964*	TREE BUBBLER WITH PERFORATED "RING"	SHEET 1 OF 1
	DATE: AUGUST, 2008 / SCALE: NONE	PAGE L-2
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 01:38 P BJB L-2 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\L\L-02.DWG

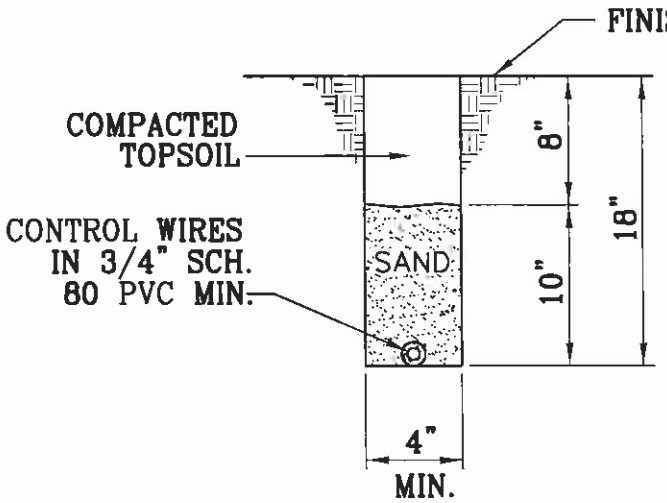


LATERAL LINE & POTABLE LINE

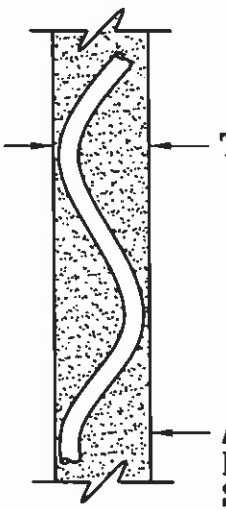


MAIN & CONDUCTORS

NOTE: TIE WIRING AT 10-FOOT INTERVALS.



CONDUCTORS ONLY



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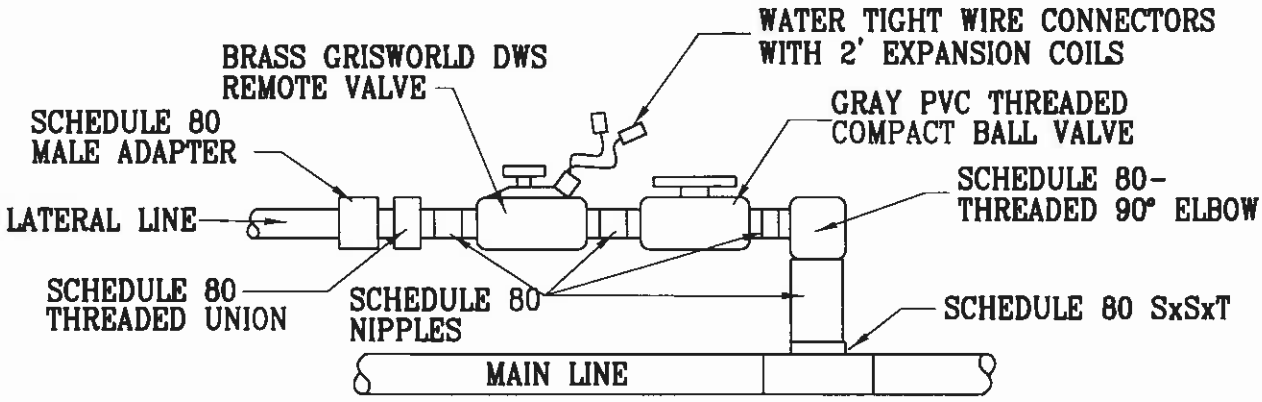
CITY OF CLAYTON
Founded 1857 ...Incorporated 1964

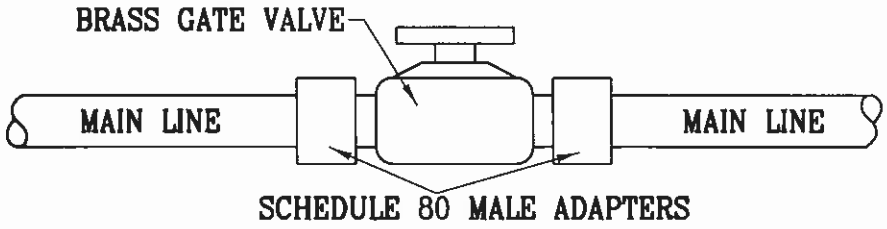
IRRIGATION TRENCH		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE L-3
APPROVED: _____ CITY ENGINEER		



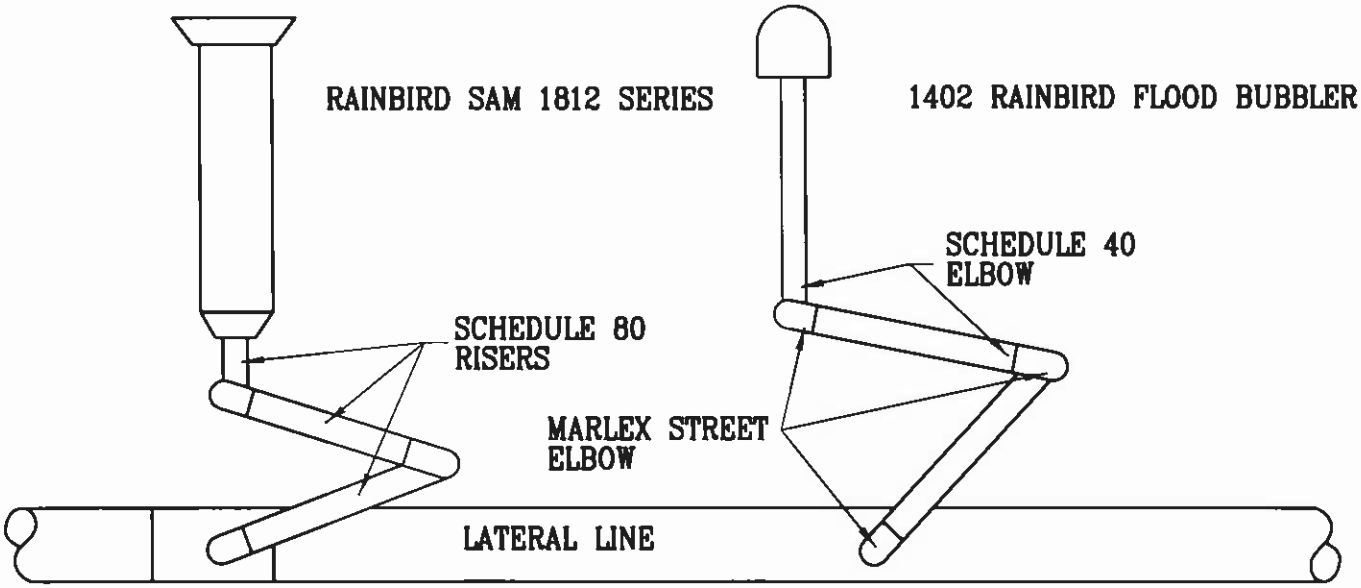
WIRES LOCATED 2" UNDER MAIN LINE

NOTE: SEE L-7 FOR BOX INSTALLATION

TYPICAL CONTROL VALVE INSTALLATION



TYPICAL GATE VALVE INSTALLATION



TYPICAL SPRINKLER INSTALLATION

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	**IRRIGATION VALVES AND SPRINKLERS**	SHEET **1 OF 1**
	DATE: AUGUST, 2008 — SCALE: NONE	PAGE **L-4**
	APPROVED: _____ CITY ENGINEER	

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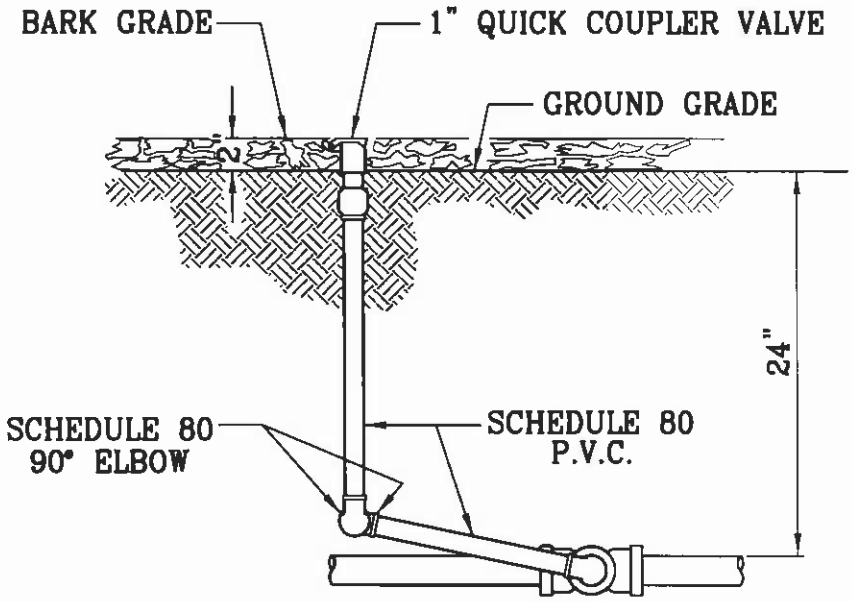
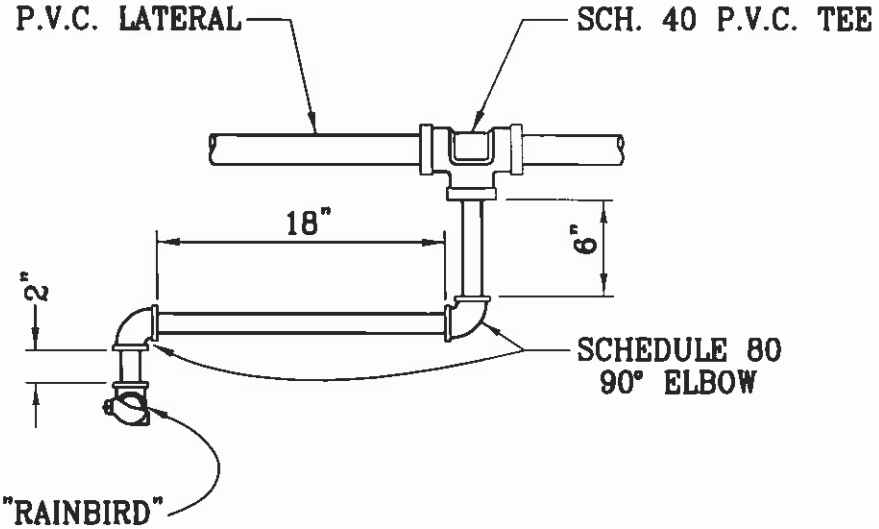


SIDE VIEW



PLAN VIEW

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	QUICK COUPLING VALVE	SHEET 1 OF 1
	DATE: AUGUST, 2008 SCALE: NONE	PAGE L-5
	APPROVED: _____ CITY ENGINEER	

FRI, SEP 05, 2008 02:01 P BJB L5 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\L\L-05.DWG

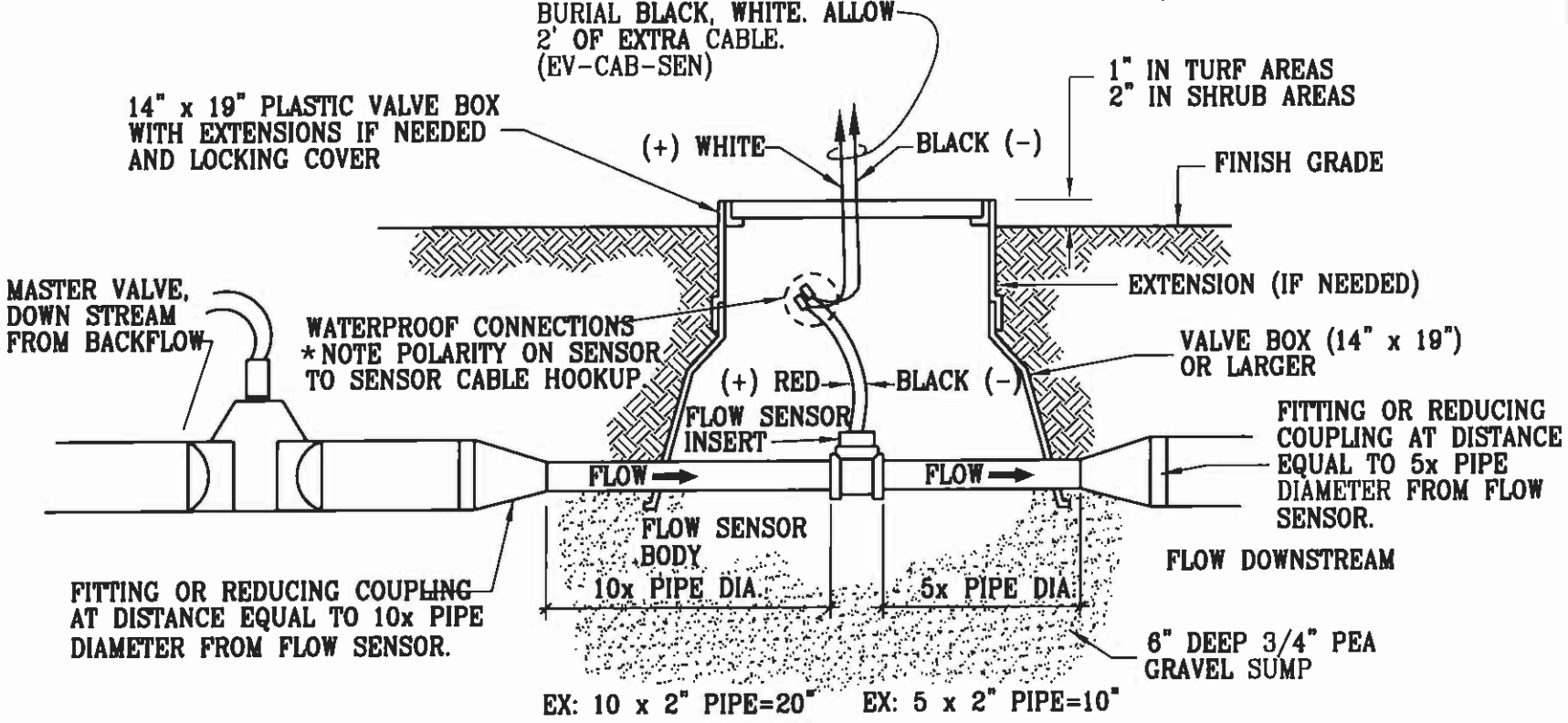
CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

*NOTE: FLOW SENSOR MUST BE INSTALLED WITH INSERT (TOP) POSITIONED VERTICALLY AND BODY (TEE) POSITIONED HORIZONTALLY.

*NOTE: FLOW SENSOR CABLE MUST BE RUN IN 1" PVC CONDUIT FROM FLOW SENSOR TO CONTROLLER ENCLOSURE.

LASCO REDUCING COUPLINGS ARE AVAILABLE IN THE FOLLOWING SIZES AND PART NUMBERS:

429-585	8" x 6"
429-532	6" x 4"
429-422	4" x 3"
429-338	3" x 2"
429-251	2" x 1 1/2"
429-212	1 1/2" x 1 1/4"
429-168	1 1/4" x 1"



MASTER VALVE / FLOW SENSOR

MASTER VALVE AND FLOW SENSOR

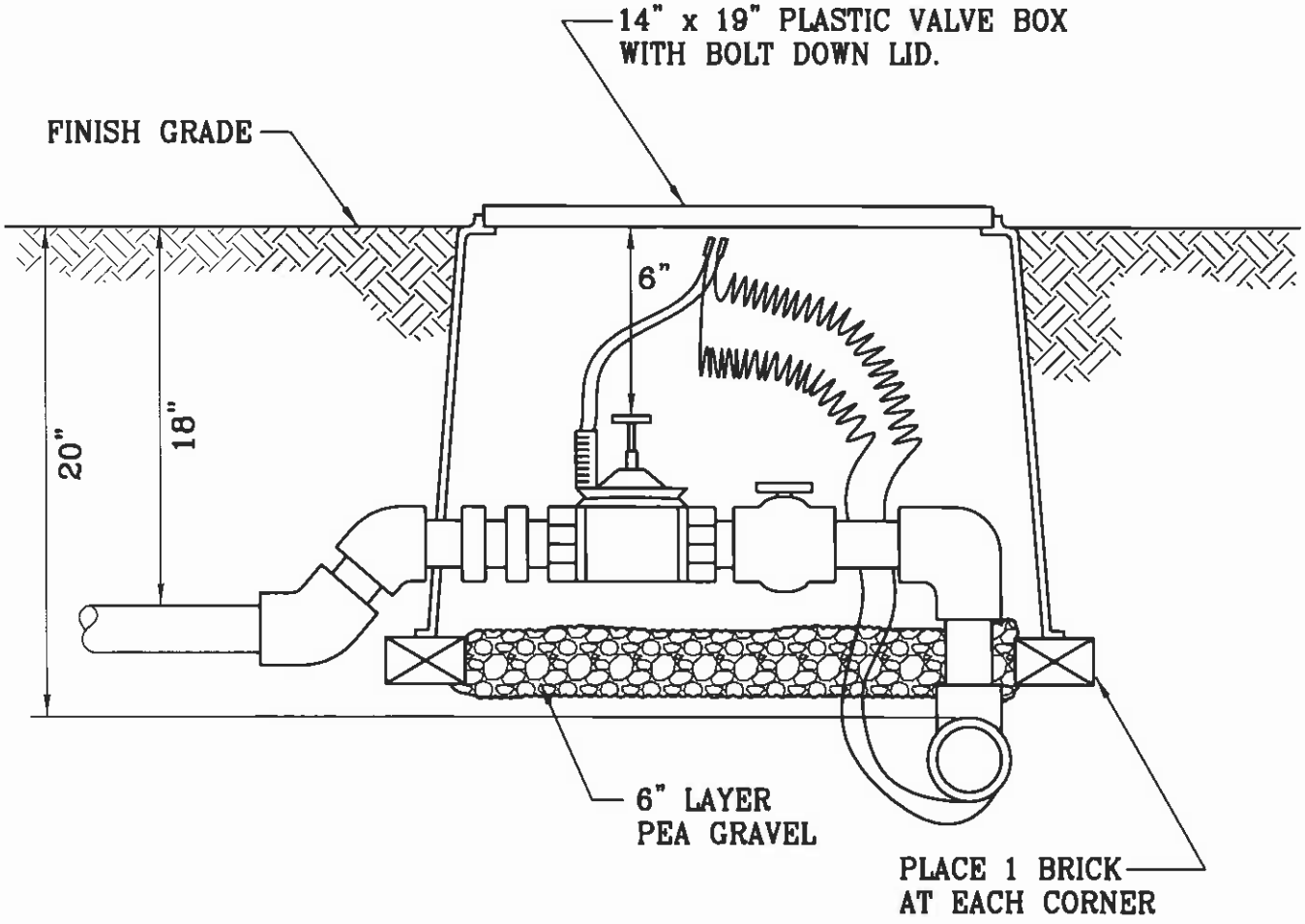
DATE: AUGUST, 2008

SCALE: NONE

APPROVED: _____ CITY ENGINEER

PAGE L-6

SHEET 1 OF 1



CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

TYPICAL VALVE BOX INSTALLATION		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE L-7
APPROVED:	CITY ENGINEER	

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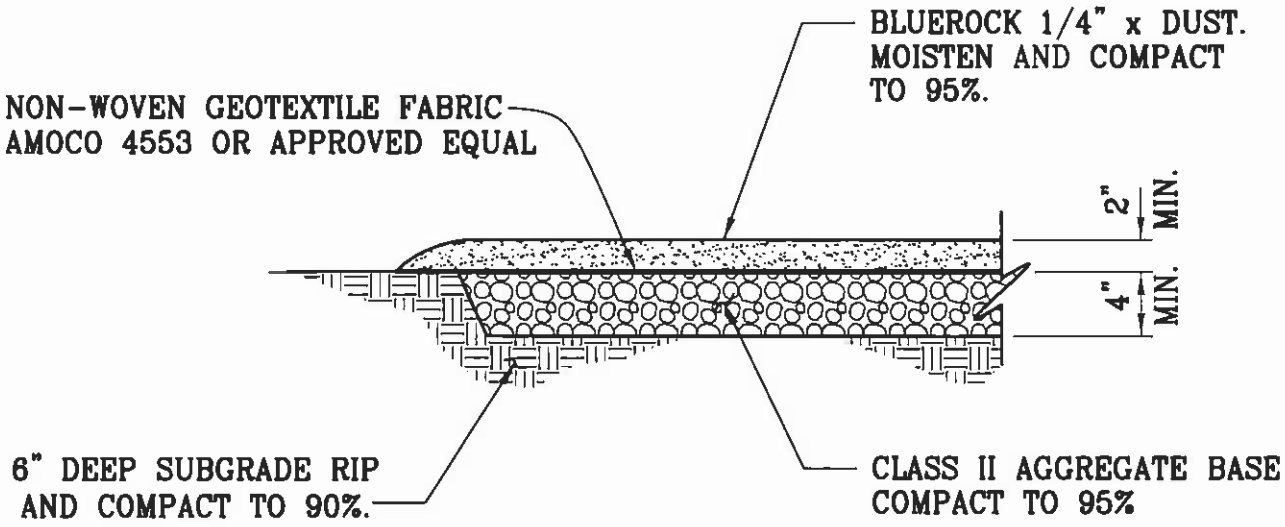

SEE L-9 FOR HEADERBOARD AND
STAKING WHEN SPECIFIED.

CITY OF CLAYTON
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HIKING TRAIL			SHEET **1 OF 1**
DATE: AUGUST, 2008	SCALE: NONE		PAGE **L-8**
APPROVED:	CITY ENGINEER		

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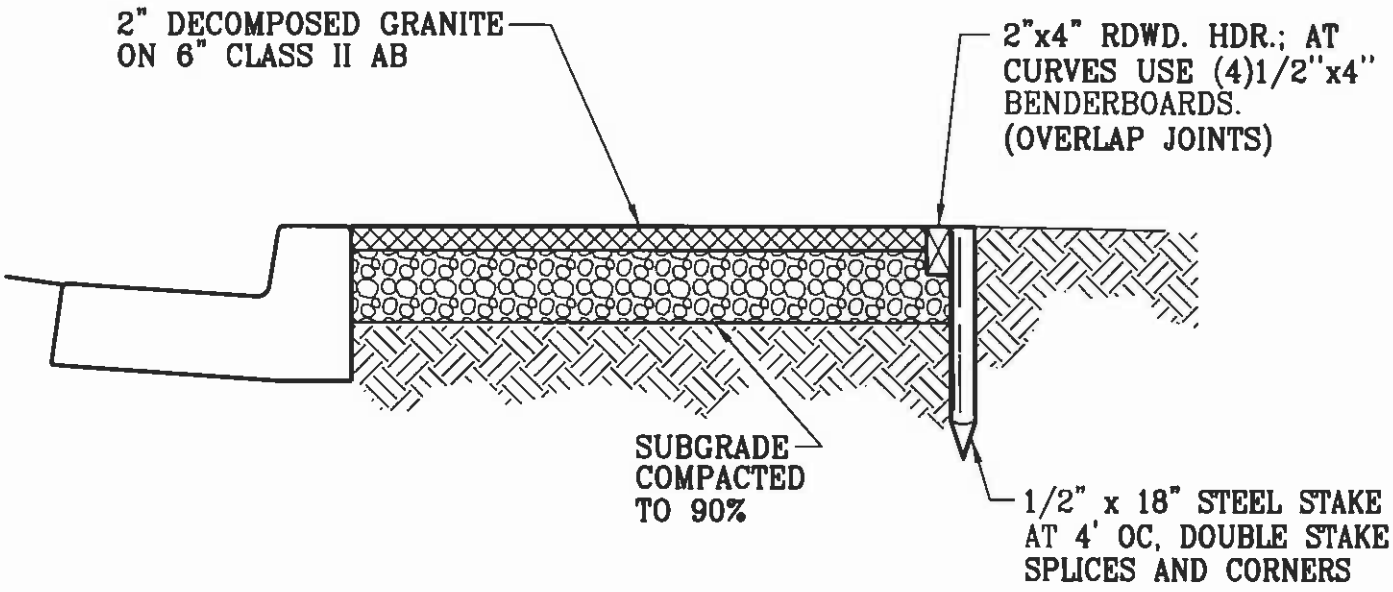

NOTE:
DECOMPOSED GRANITE AND AGGREGATE BASE ROCK TO BE COMPACTED TO 95%

CITY OF CLAYTON
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DECOMPOSED GRANITE PATH		SHEET 1 OF 1
DATE: AUGUST, 2008	SCALE: NONE	PAGE L-9
APPROVED:	CITY ENGINEER	

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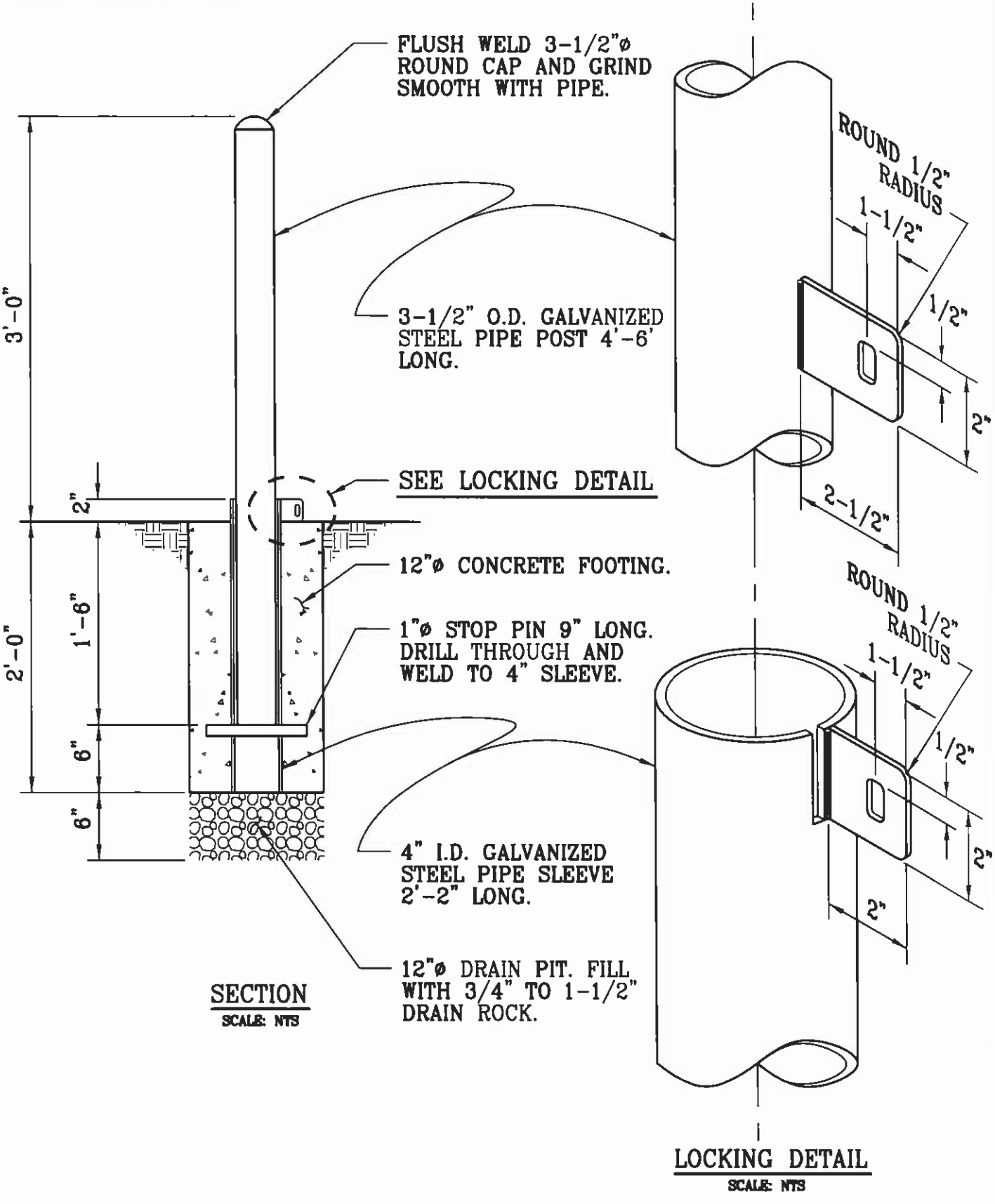

CITY OF CLAYTON
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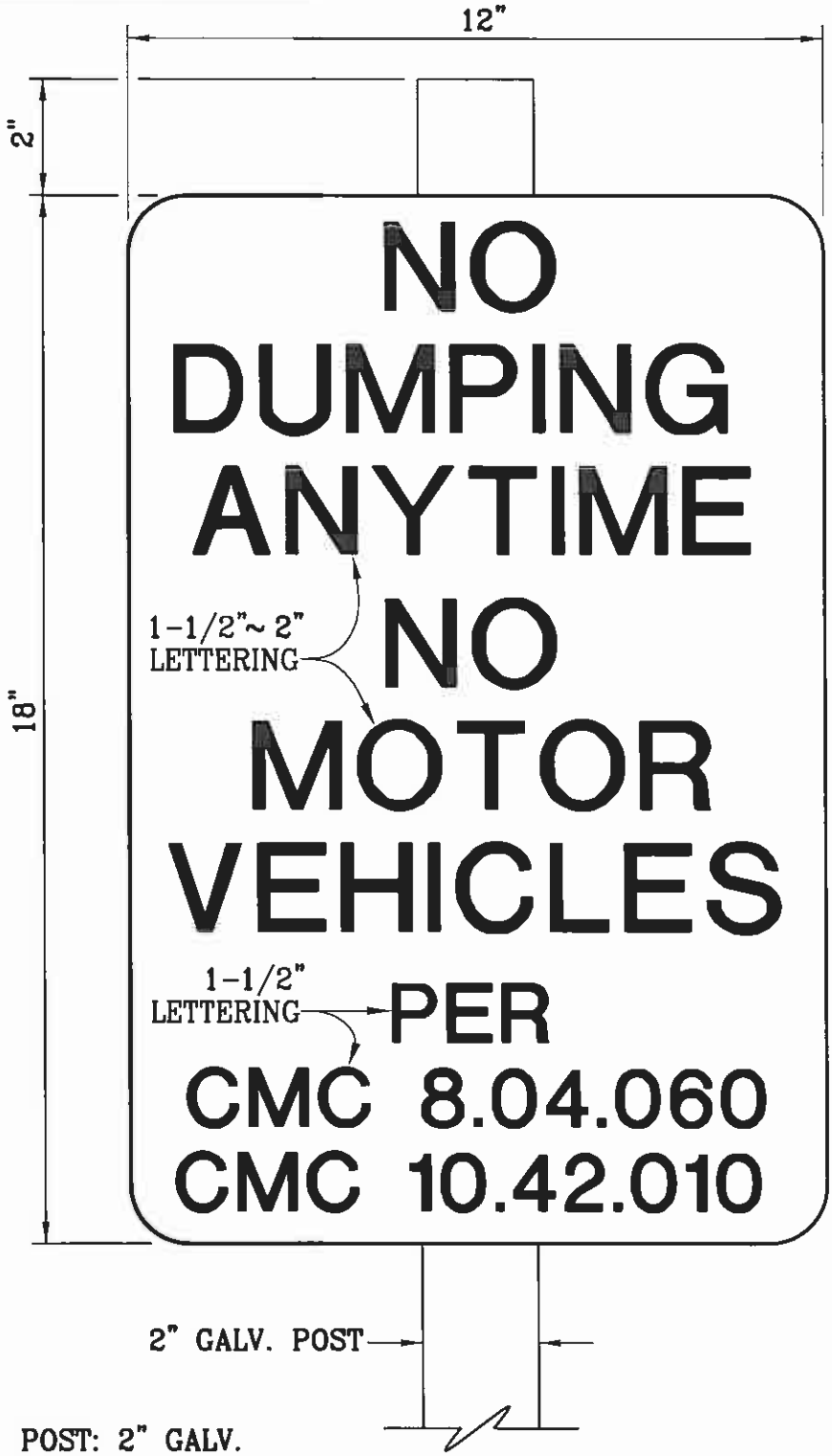
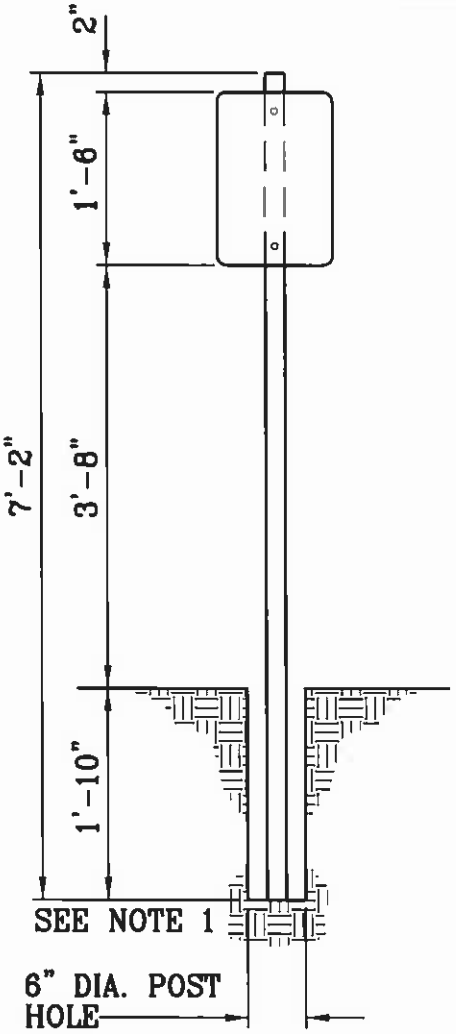
REMOVABLE METAL BOLLARD

DATE: AUGUST, 2008	SCALE: NONE	SHEET 1 OF 1
APPROVED: _____ CITY ENGINEER		PAGE L-10

MON, SEP 08, 2008 07:16 A BJB L10 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\L\L-10.DWG





DETAIL "A"
NEW SIGN INSTALLATION

POST: 2" GALV.
SIGN BLANK: STD. GRADE ALUMINUM 12" x 18"
SIGN FACE SHEETING: ENGINEER GRADE-3M
COLOR: WHITE REFLECTIVE BACKGROUND/BROWN LETTERS
POST: 2" GALV.

NOTES:

1) FLATTEN POST END 3"
2) FILL POST HOLE 3" FROM SURFACE WITH POSTCRETE CONCRETE MIX. BACKFILL WITH SOIL.
3) 5/16" x 1/2" SECURITY BOLT FLAT WASHER; SIGN SADDLES OR 22-CLAMP SIGN ASSEMBLY.

CITY OF CLAYTON
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SIGN – NO DUMPING / NO MOTOR VEHICLES		SHEET 1 OF 1
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MON, SEP 08, 2008 07:16 A BJB L-11 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\L\L-11.DWG

CITY OF CLAYTON
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SPLIT RAIL FENCE

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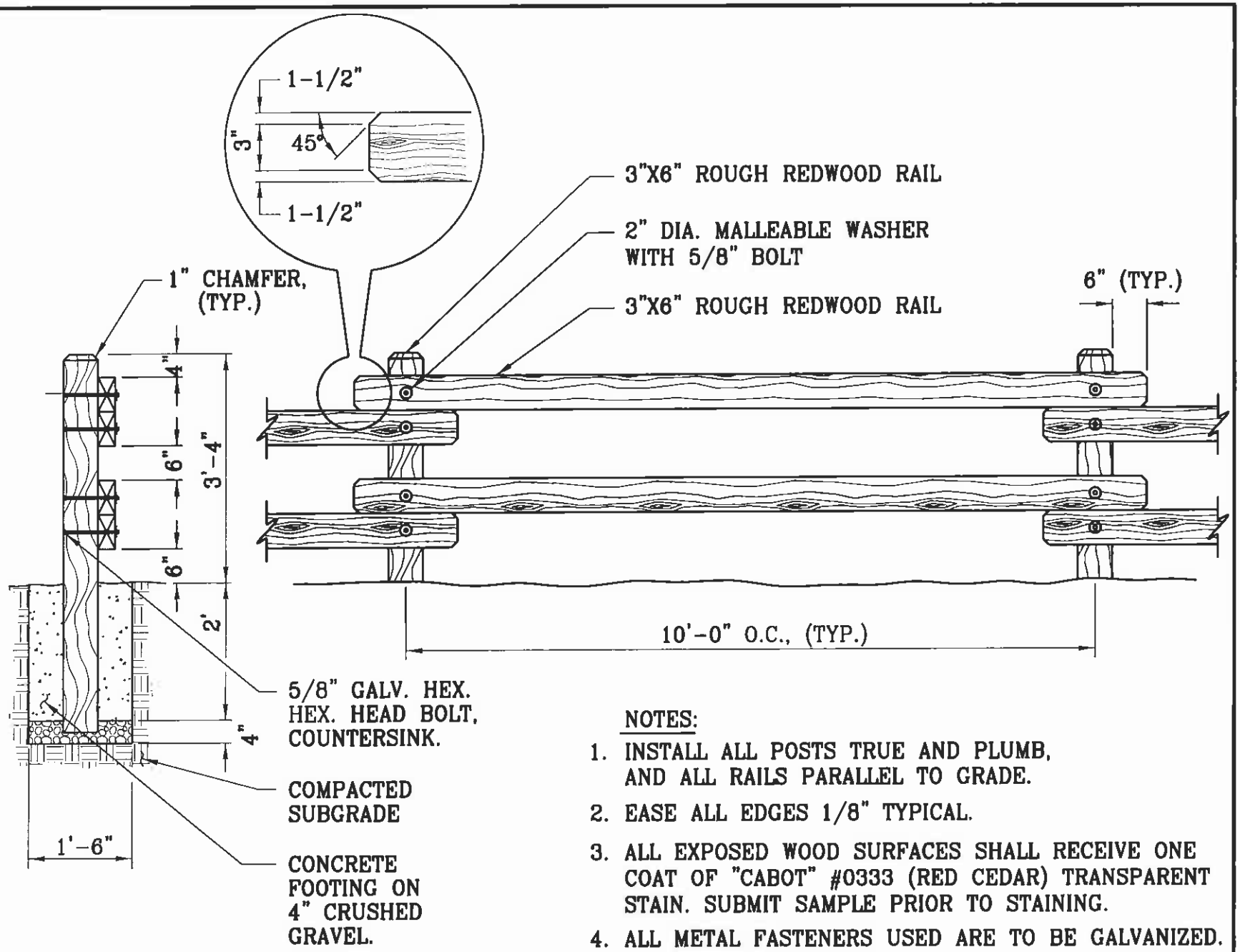
SCALE: NONE

PAGE L-12
SHEET 1 OF 1

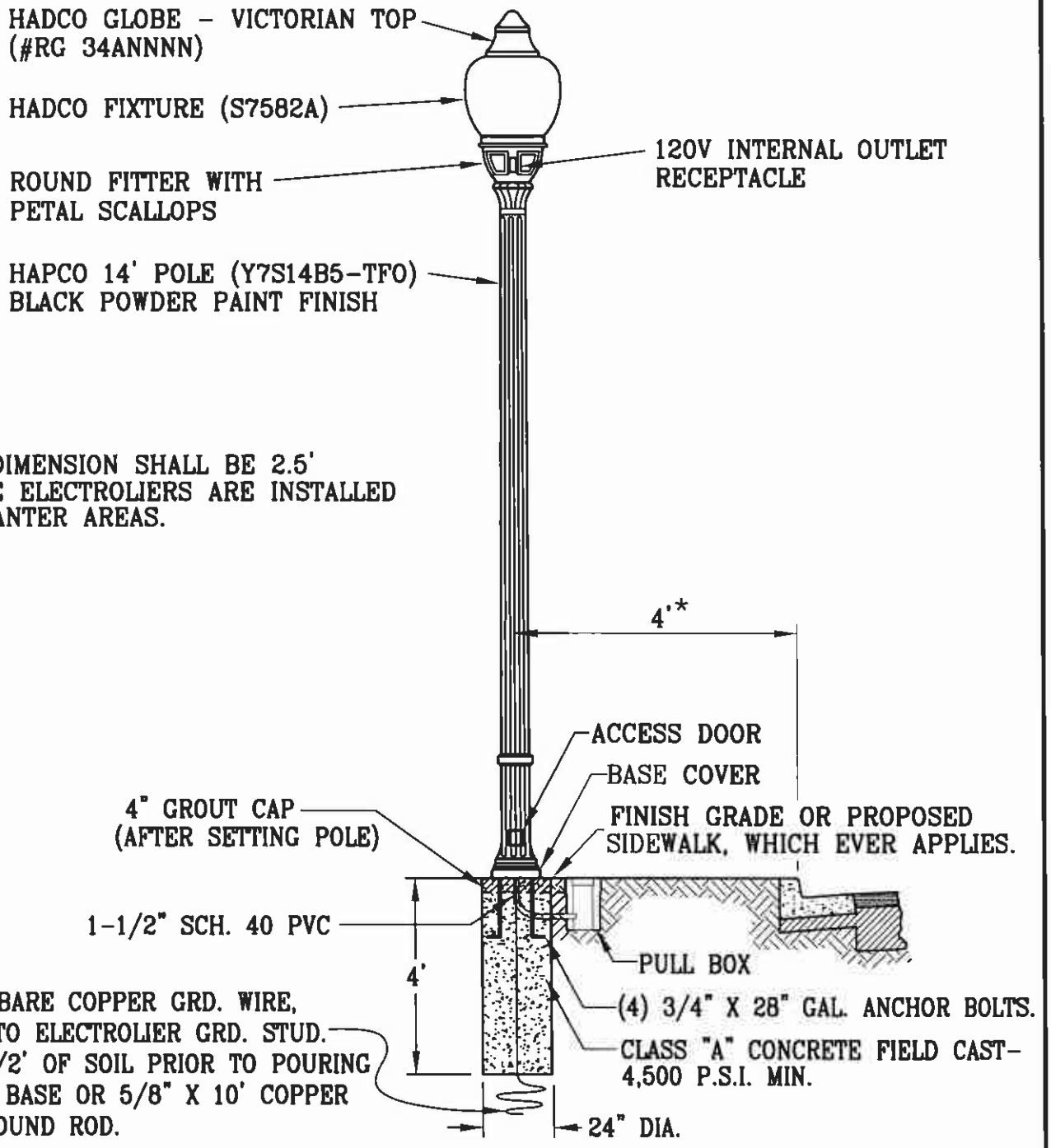


NOTES:

1. INSTALL ALL POSTS TRUE AND PLUMB, AND ALL RAILS PARALLEL TO GRADE.
2. EASE ALL EDGES 1/8" TYPICAL.
3. ALL EXPOSED WOOD SURFACES SHALL RECEIVE ONE COAT OF "CABOT" #0333 (RED CEDAR) TRANSPARENT STAIN. SUBMIT SAMPLE PRIOR TO STAINING.
4. ALL METAL FASTENERS USED ARE TO BE GALVANIZED.

T – Series

(Town Center)



CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

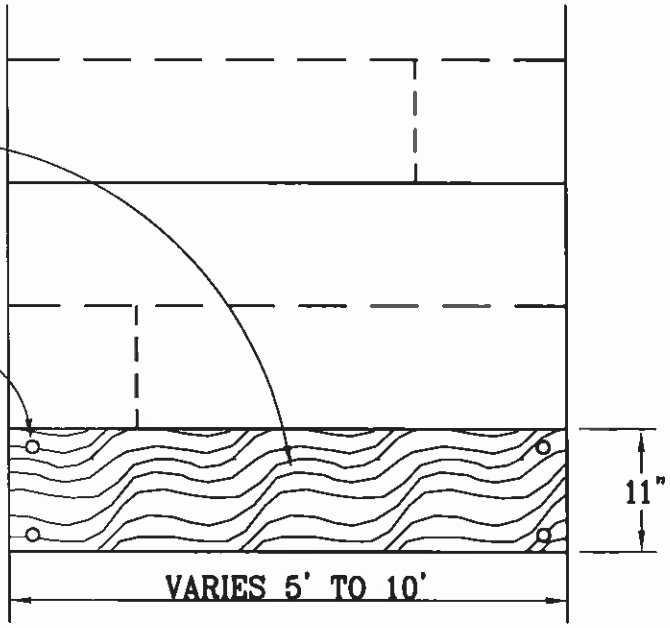
ELECTROLIER DETAIL WITHIN TOWN CENTER AREA

DATE: AUGUST, 2008	SCALE: NONE	SHEET 1 OF 1
APPROVED: _____ CITY ENGINEER		PAGE T-1

TUE, SEP 09, 2008 07:17 A BJB T-1 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\T\T-1 STREET LIGHT.DWG

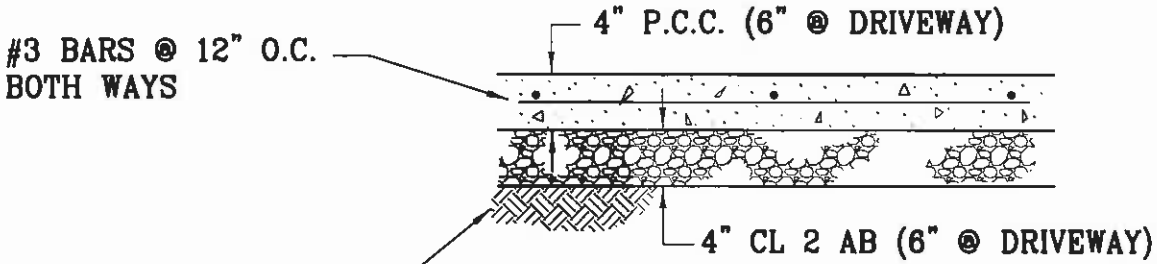
'BOARDWALK' PATTERN STAMPED CONCRETE, AS SHOWN. CONTRACTOR TO SUBMIT SAMPLE OF PATTERN, PRIOR TO CONSTRUCTION, FOR APPROVAL.

"BOMANITE" COLOR # A-31 "WALNUT" OR APPROVED EQUAL. CONTRACTOR TO SUBMIT COLOR SAMPLE, PRIOR TO CONSTRUCTION, FOR APPROVAL.



NOTE: SEE S-12 FOR JOINTS AND SCORELINES

PLAN



SECTION

NOTE: SUBGRADE AND BASE ROCK TO BE COMPACTED TO 95%

SEE S-12 FOR WEAKENED PLANE JOINTS, SCORE LINES, AND CONSTRUCTION JOINTS.

CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	TEXTURED CONCRETE SIDEWALK WITHIN TOWN CENTER AREA	SHEET 1 OF 1
	DATE: AUGUST, 2008 SCALE: NONE	PAGE T-2
	APPROVED: CITY ENGINEER	

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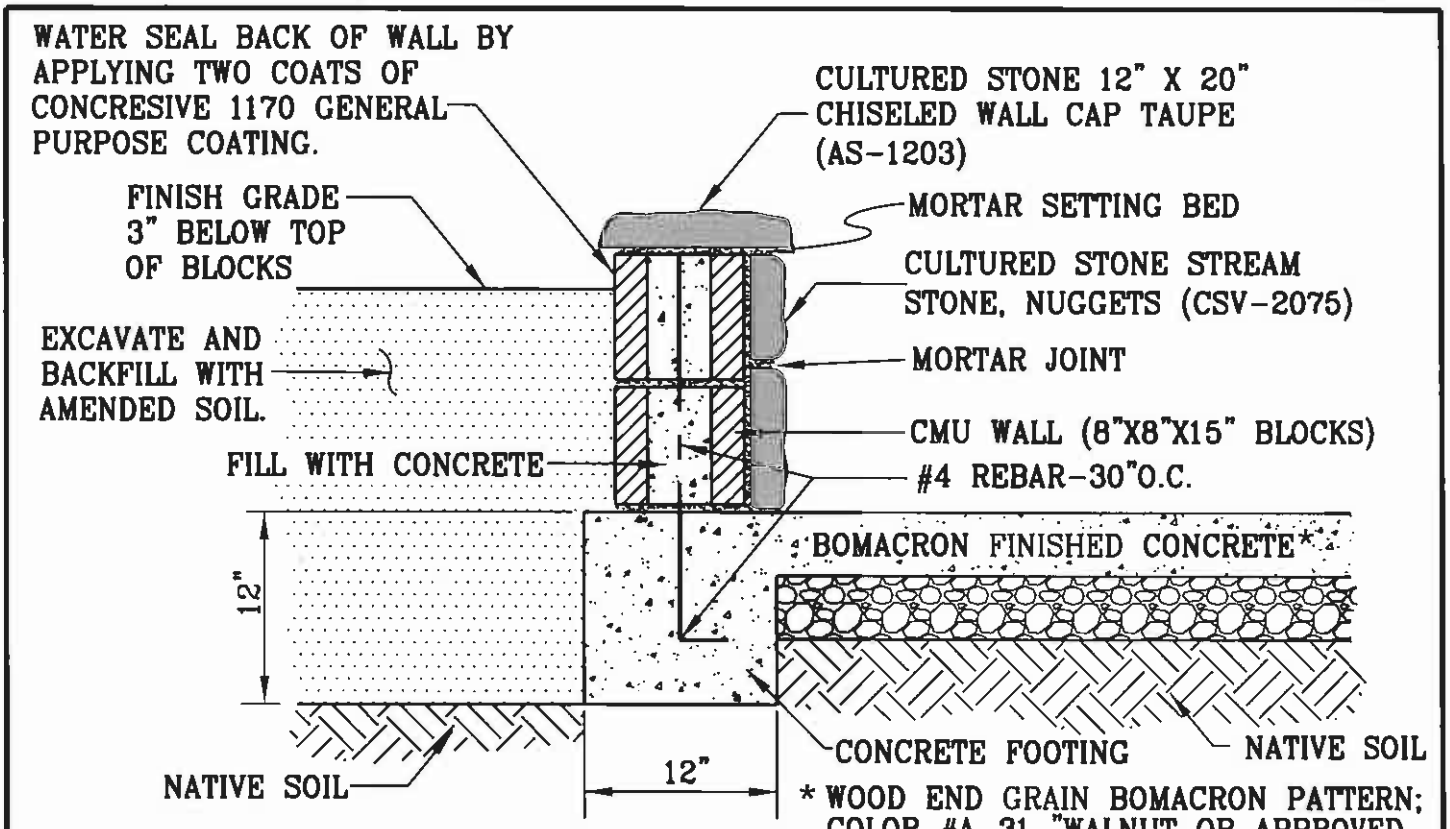
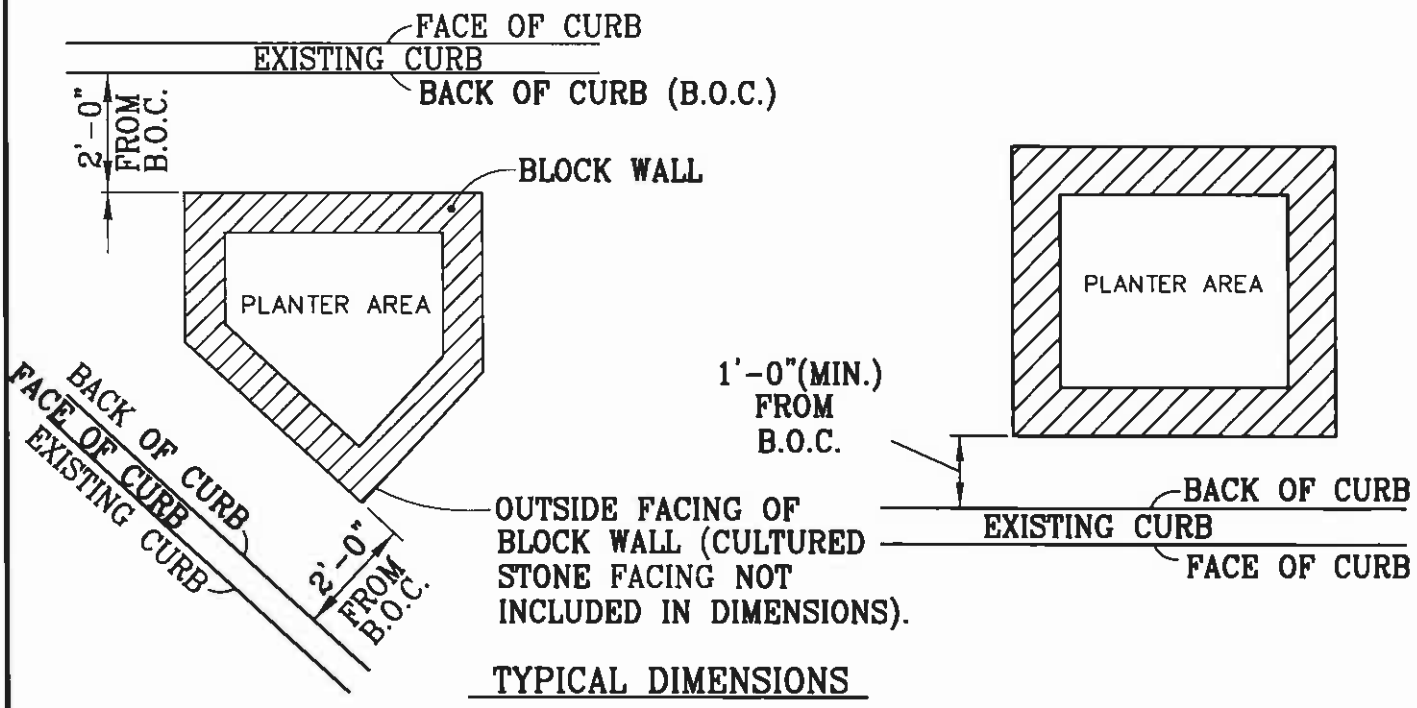




TYPICAL DIMENSIONS

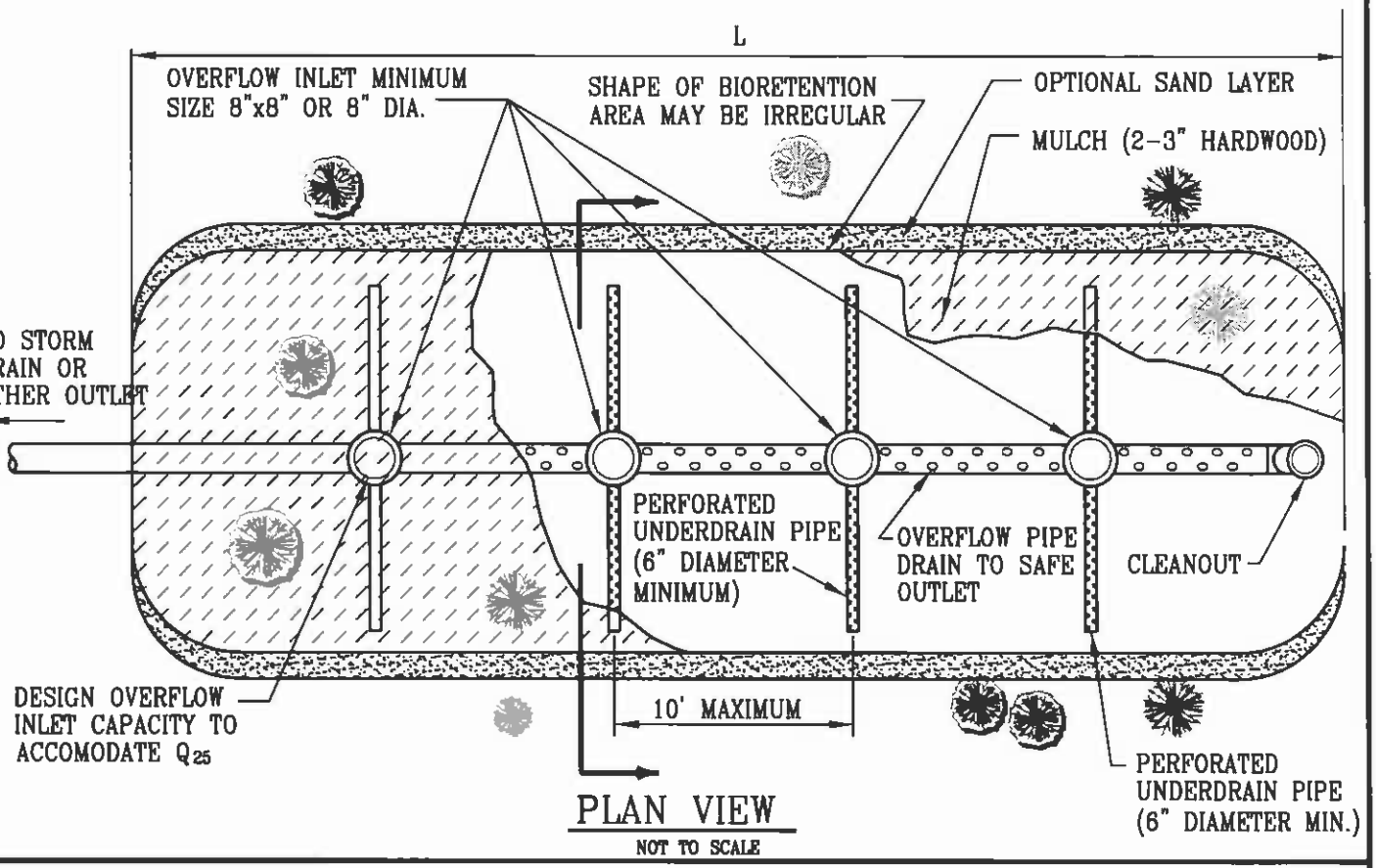
CITY OF CLAYTON *Founded 1857 ... Incorporated 1964*	RAISED MASONRY PLANTER WALL WITHIN TOWN CENTER AREA	SHEET 1 OF 1
	DATE: AUGUST, 2008 SCALE: NONE	PAGE T-3
	APPROVED: CITY ENGINEER	

TUE, SEP 09, 2008 07:19 A BJB T-3 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\T\T-3 RAISED PLANTER WALLS.DWG

C3 – Series

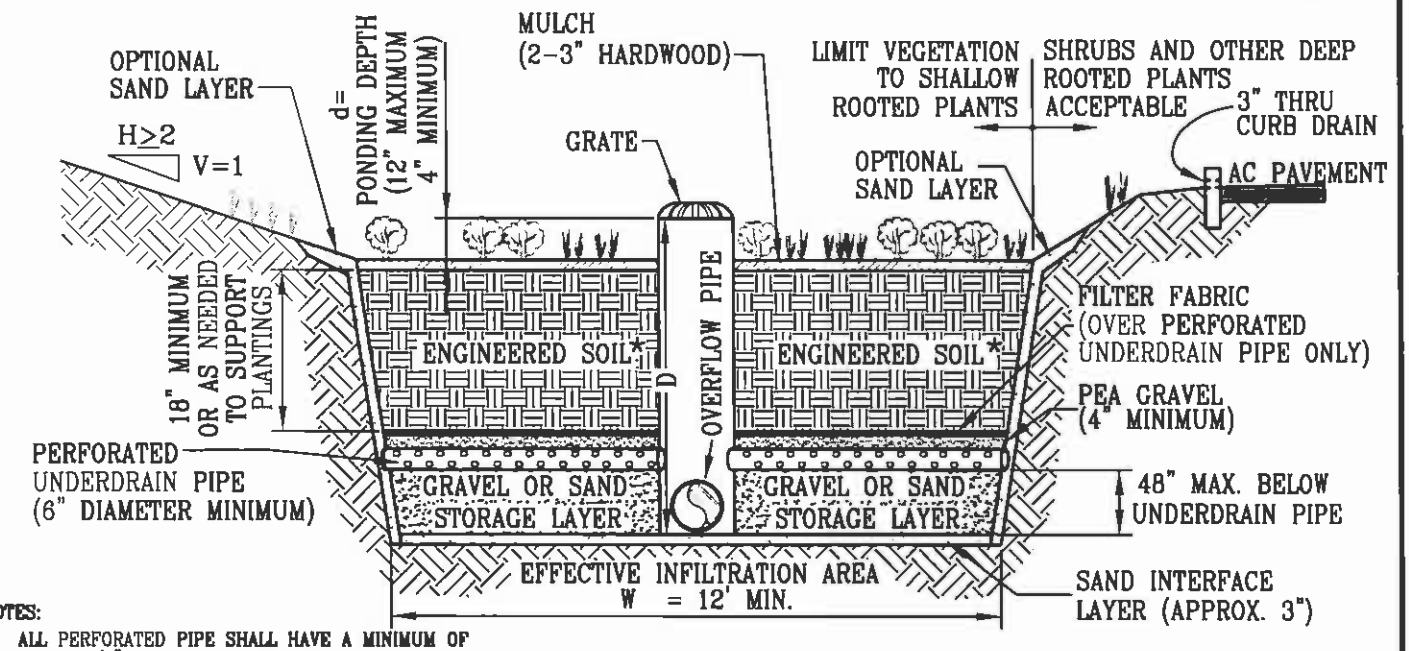
(Stormwater Treatment)

Note: These details are provided for guidance only and are based upon the C.3 guidelines in effect at the present time (August 2008). It is the responsibility of the designer to insure that the construction details used are in conformance with the latest stormwater treatment requirements and regulations.



PLAN VIEW

NOT TO SCALE



CROSS-SECTION

NOT TO SCALE

NOTES:

1. ALL PERFORATED PIPE SHALL HAVE A MINIMUM OF THREE 3/4" DIAMETER HOLES, EQUALLY SPACED ALONG THE CIRCUMFERENCE OF THE PIPE AND NOT LESS THAN THREE HOLES PER LINED FOOT OF PIPE.
2. DETERMINE DIMENSIONS FROM L x W x D = INFILTRATION DESIGN VOLUME.

* SANDY LOAM/LOAMY SAND; FINES SHOULD BE LIMITED TO TWENTY PERCENT OR LESS PASSING THROUGH A #200 SIEVE.

CITY OF CLAYTON

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BIOFILTRATION PLANTER

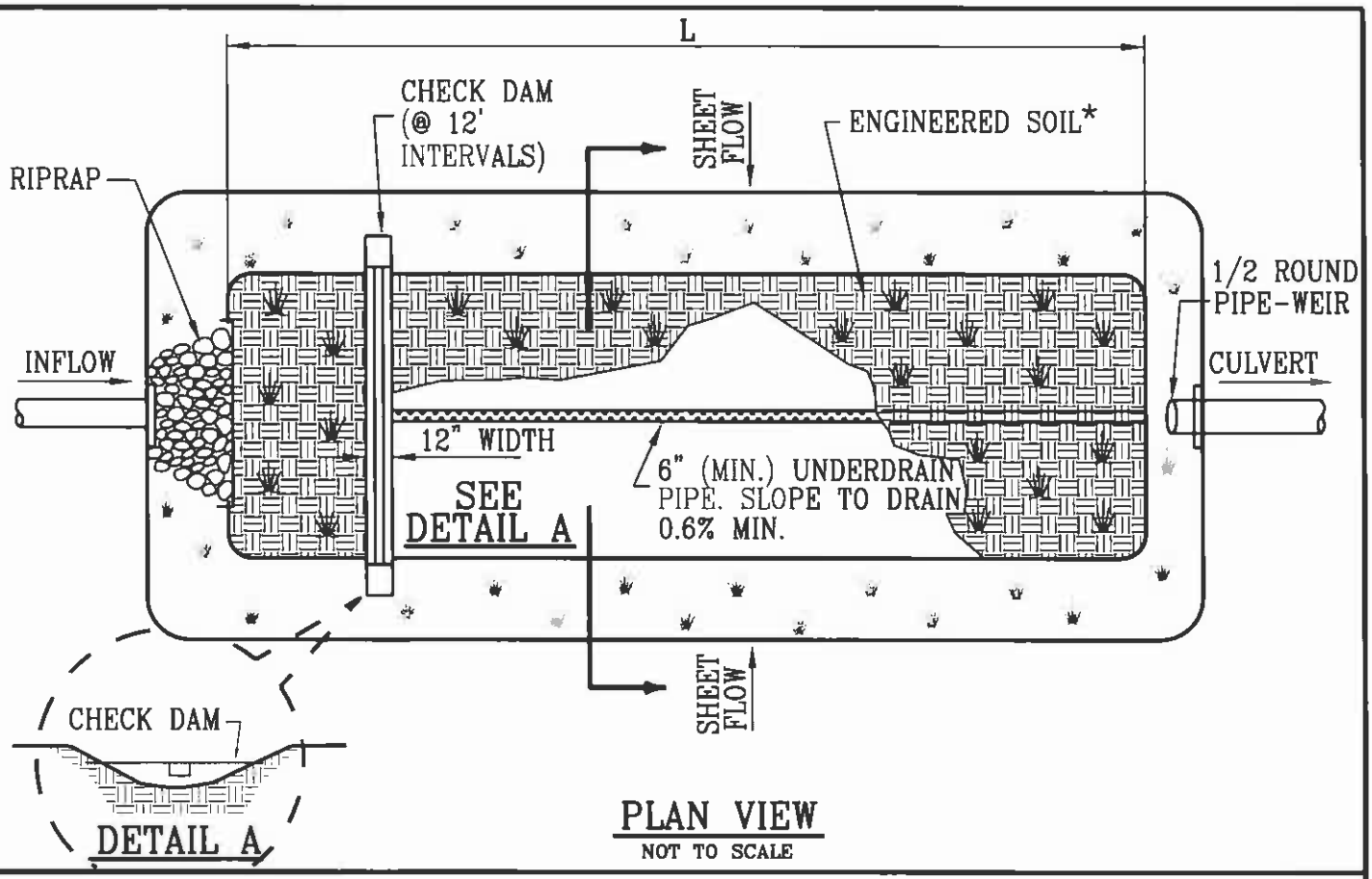
DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

SHEET 1 OF 1

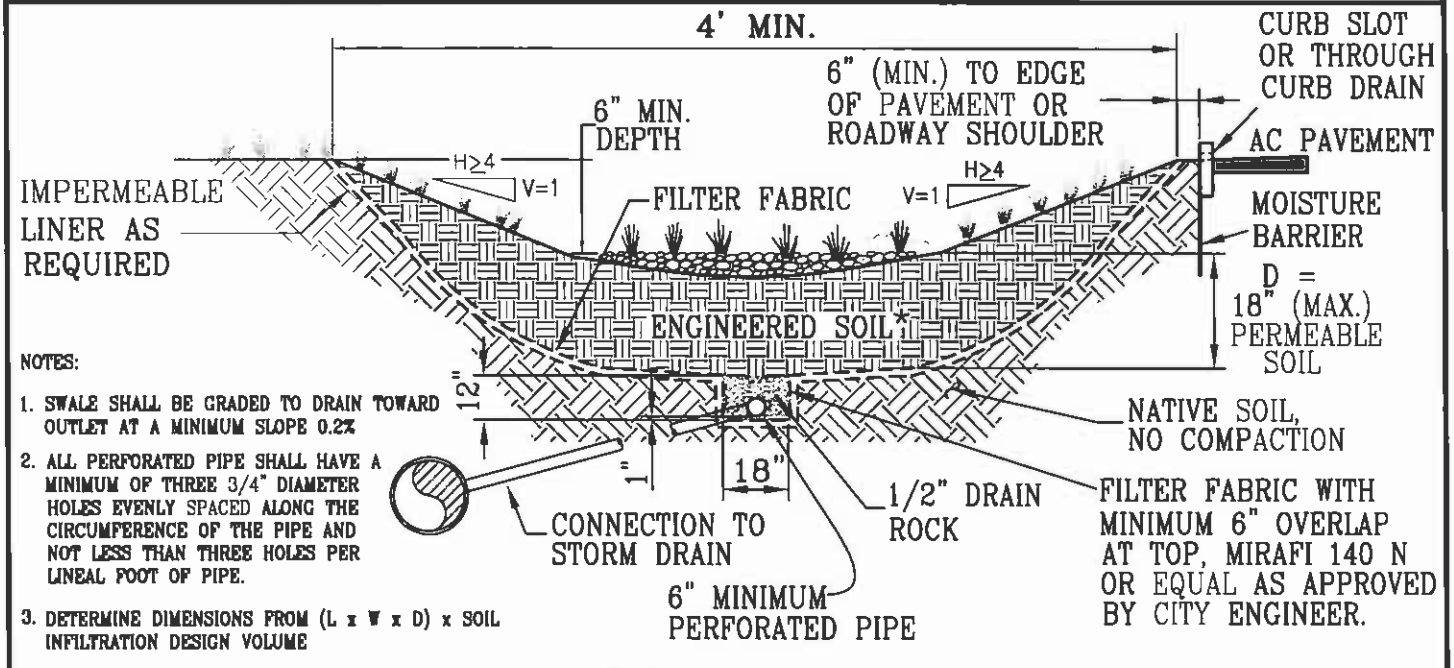
PAGE C3-1

TUE, SEP 09, 2008 07:19 A BJB C3-1 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\C3\C3 REQUIREMENTS.DWG



PLAN VIEW

NOT TO SCALE



NOTES:

1. SWALE SHALL BE GRADED TO DRAIN TOWARD OUTLET AT A MINIMUM SLOPE 0.2%
2. ALL PERFORATED PIPE SHALL HAVE A MINIMUM OF THREE 3/4" DIAMETER HOLES EVENLY SPACED ALONG THE CIRCUMFERENCE OF THE PIPE AND NOT LESS THAN THREE HOLES PER LINEAL FOOT OF PIPE.
3. DETERMINE DIMENSIONS FROM (L x W x D) x SOIL INFILTRATION DESIGN VOLUME
4. PLANTINGS MAY INCLUDE TREES, MINIMUM INFILTRATION RATE 5"/HR

★SANDY LOAM/LOAMY SAND; FINES SHOULD BE LIMITED TO TWENTY PERCENT OR LESS PASSING THROUGH A #200 SIEVE.

CROSS-SECTION

NOT TO SCALE

CITY OF CLAYTON
Founded 1857 ... Incorporated 1964

VEGETATED SWALE DETAIL

DATE: AUGUST, 2008 | SCALE: NONE

APPROVED: _____ CITY ENGINEER

SHEET 1 OF 1

PAGE C3-2

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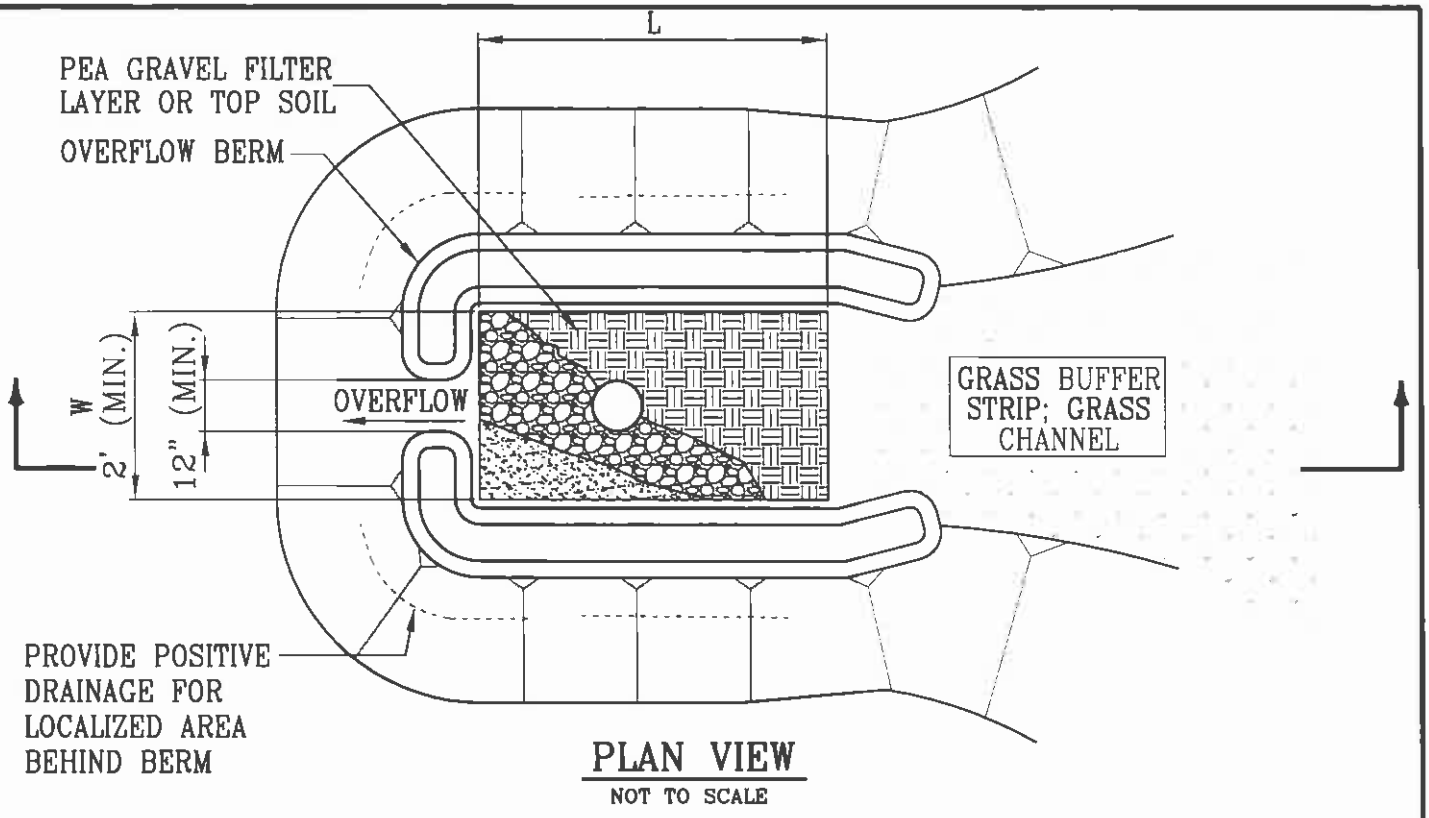
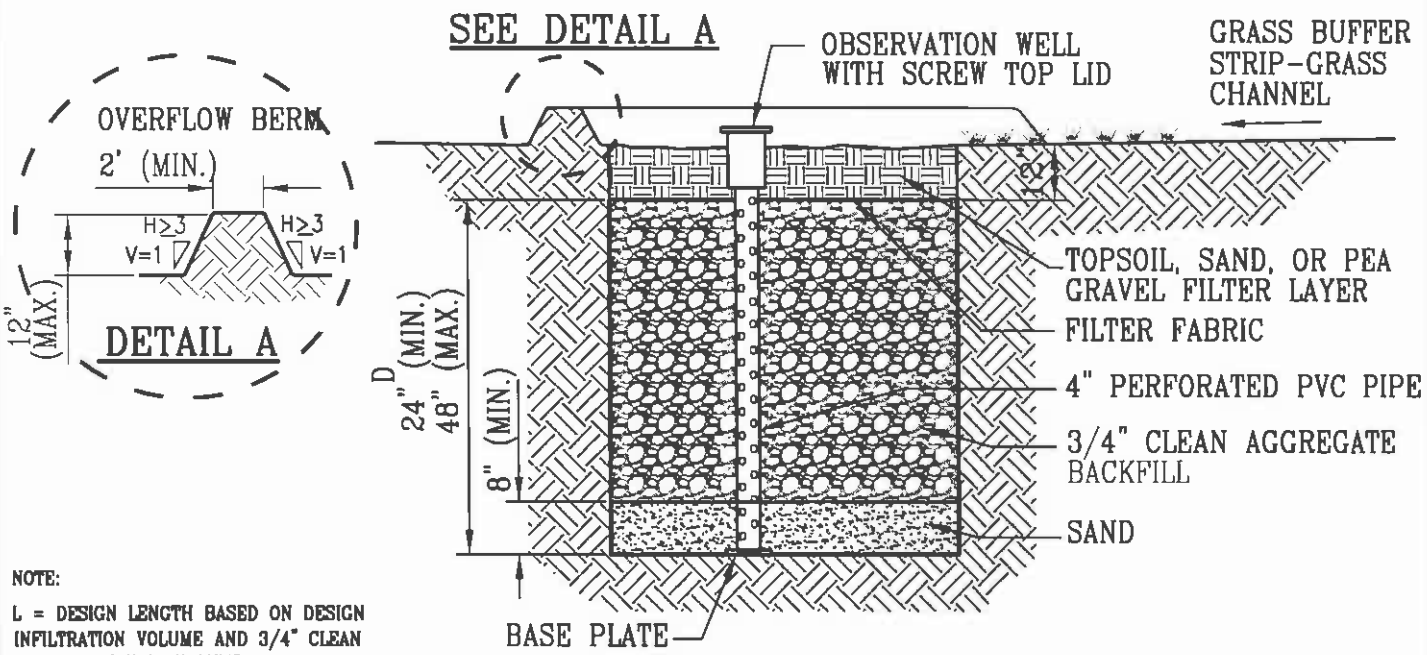


PLAN VIEW

NOT TO SCALE



NOTE:

L = DESIGN LENGTH BASED ON DESIGN INFILTRATION VOLUME AND 3/4" CLEAN AGGREGATE VOID VOLUME.

CROSS-SECTION

NOT TO SCALE

CITY OF CLAYTON

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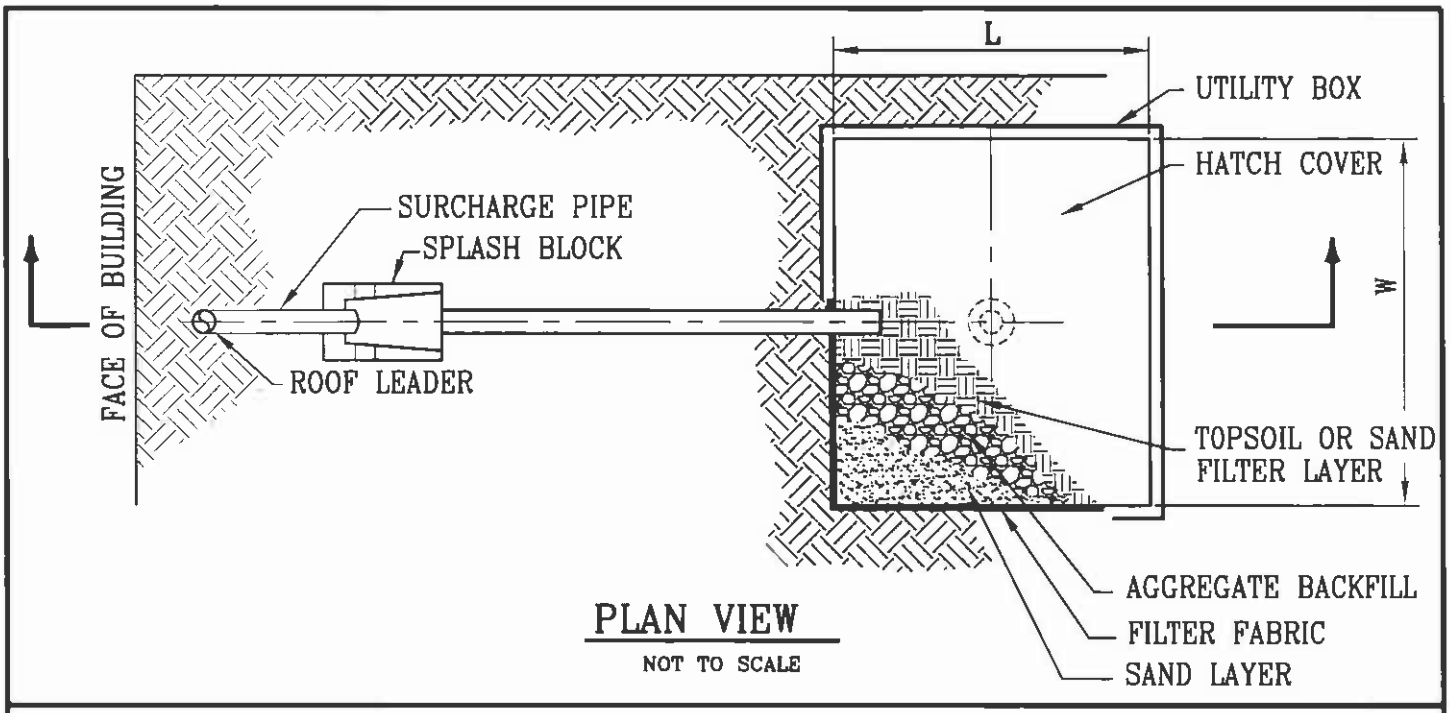
INFILTRATION TRENCH DETAIL

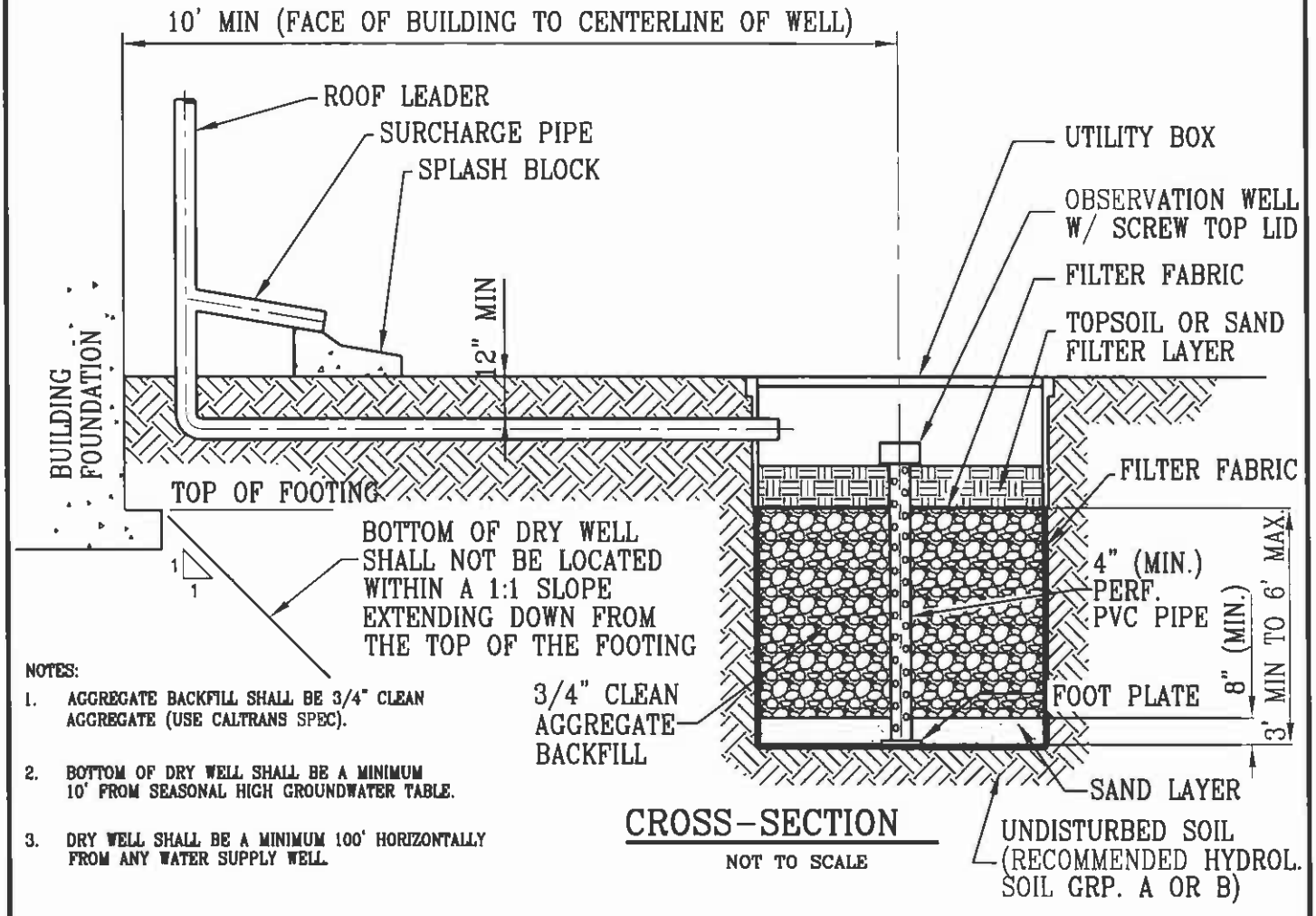
DATE: AUGUST, 2008	SCALE: NONE	SHEET 1 OF 1
APPROVED: _____ CITY ENGINEER		PAGE C3-3

MON, SEP 08, 2008 07:55 A BJB C3-3 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\C3\C3 REQUIREMENTS.DWG



PLAN VIEW

NOT TO SCALE



NOTES:

1. AGGREGATE BACKFILL SHALL BE 3/4" CLEAN AGGREGATE (USE CALTRANS SPEC).
2. BOTTOM OF DRY WELL SHALL BE A MINIMUM 10' FROM SEASONAL HIGH GROUNDWATER TABLE.
3. DRY WELL SHALL BE A MINIMUM 100' HORIZONTALLY FROM ANY WATER SUPPLY WELL.

CROSS-SECTION

NOT TO SCALE

CITY OF CLAYTON

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DRYWELL DETAIL

DATE:	AUGUST, 2008	SCALE:	NONE
APPROVED:		CITY ENGINEER	

SHEET 1 OF 1

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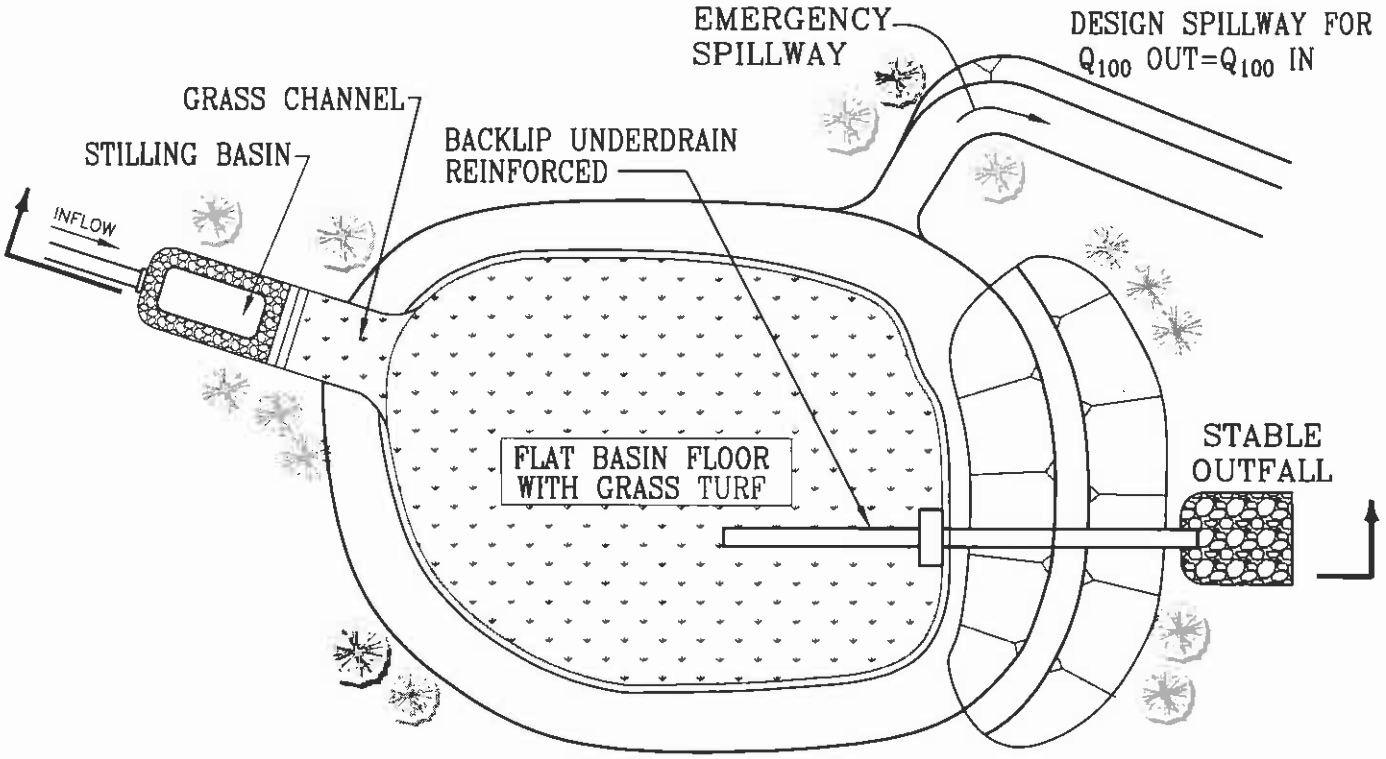

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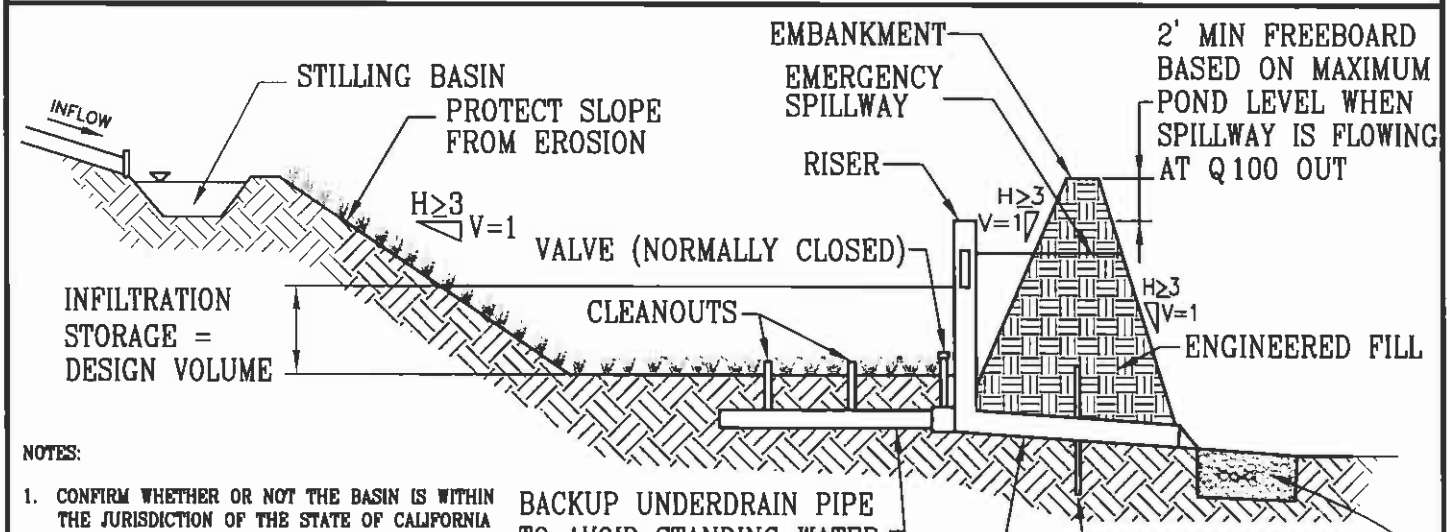
NOT TO SCALE



NOTES:

1. CONFIRM WHETHER OR NOT THE BASIN IS WITHIN THE JURISDICTION OF THE STATE OF CALIFORNIA DIVISION OF SAFETY OF DAMS. (HEIGHT ≥ 25 FEET OR CAPACITY ≥ 50 ACRE-FEET.
2. THE RISER AND OUTFALL SHALL BE SIZED TO PREVENT DISCHARGE OVER THE EMERGENCY SPILLWAY WITH Q_{100} FLOWING INTO THE BASIN. THE DESIGN ANALYSIS SHALL ASSUME THAT THE INFILTRATION STORAGE VOLUME IS NOT AVAILABLE FOR FLOOD ROUTING ALTERNATION.

CROSS-SECTION
NOT TO SCALE

CITY OF CLAYTON
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INFILTRATION BASIN DETAIL

DATE: AUGUST, 2008 | SCALE: NONE

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MON, SEP 08, 2008 07:56 A BJB C3-5 Z:\CLAYTON STANDARDS\DWG\2008 UPDATES\C3\C3 REQUIREMENTS.DWG