



CITY OF TALENT

STANDARD DETAILS

Amended September 20, 2017
RES 17-694-R

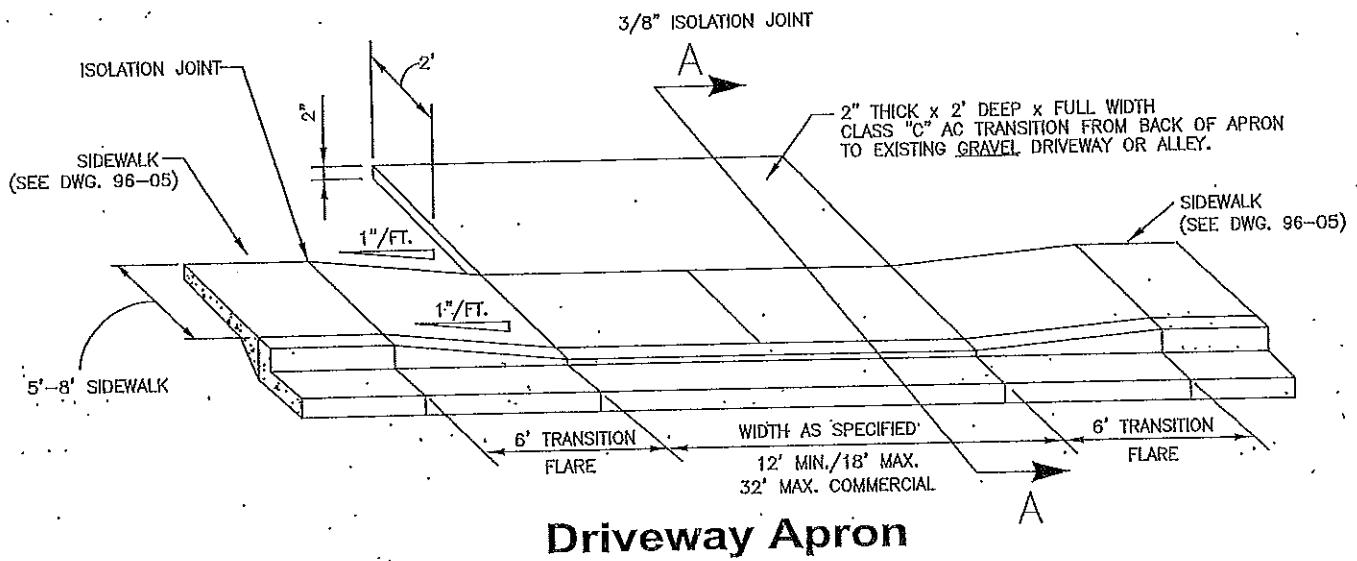
RH2
Consulting Engineers
60 North 4th Street
Central Point, OR 97502

Standard Detail Index

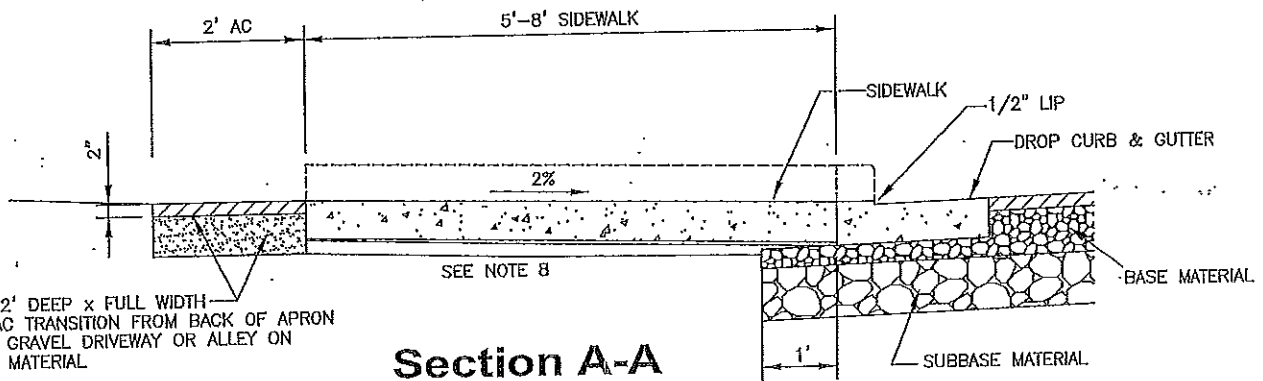
| <u>Drawing</u> | <u>Description</u> | <u>Drawing Name</u> |
|----------------|--|---------------------|
| 96-01 | Driveway Apron Adjacent to Curb | DRIVEWAY |
| 96-02 | Driveway Apron Adjacent to Parking Strip | DWY-STRP |
| 96-03 | Typical Wheelchair Ramp | WCRAMP |
| 96-04 | Curb Backfill Details | CURBBACK |
| 96-05 | Sidewalk Details | SIDEWALK |
| 96-06 | Curb & Gutter Details | CURBGUTR |
| 96-07 | Multi-Use Path | MUPATH |
| 96-10 | Storm Drain Manhole Detail | MANHOLE |
| 96-11 | Manhole Adjustment Detail | MHADJUST |
| 96-20 | Concrete Curb Inlet | INLET |
| 96-22 | Area Catch Basin | AREABASN |
| 96-23 | Standard Valley Gutter | VGUTTER |
| 96-30 | Trench Details | TRENCH |

Water Line Detail Index

| | |
|------|---|
| 100 | Meter Installation and Location |
| 101 | 1"-2" Service with 5/8" x 3/4" Meter Setting – Existing Main Connection |
| 101A | 1"-2" Service with 5/8" x 3/4" Meter Setting – New Main Connection |
| 102 | Pressure Test, Chlorination, and Disinfection Tree with End Drain |
| 103 | Full Size Flush Point |
| 104 | Hydrant Installation for Main, 14" and Smaller |
| 105 | Hydrant Installation for Main, 16" and Larger |
| 106 | 1" Air Valve |
| 107 | 2" Air Valve |
| 108 | Blowoff Assembly |
| 109 | Thrust Blocks |
| 110 | Cut-In Sleeve |
| 111 | Typical Trench Detail |
| 112 | Bollard Detail |
| 113 | Support Pier Detail |



Section A-A

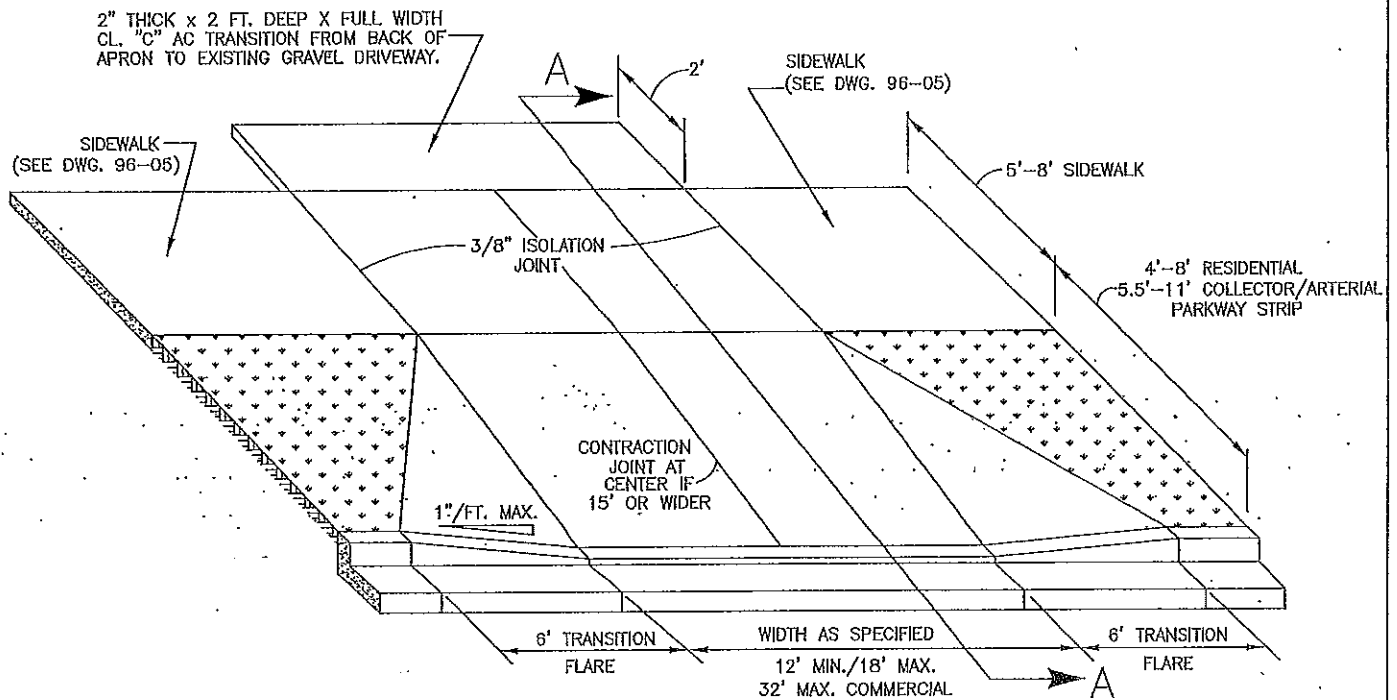


2" THICK x 2' DEEP x FULL WIDTH CLASS "C" AC TRANSITION FROM BACK OF APRON TO EXISTING GRAVEL DRIVEWAY OR ALLEY ON 6" OF BASE MATERIAL

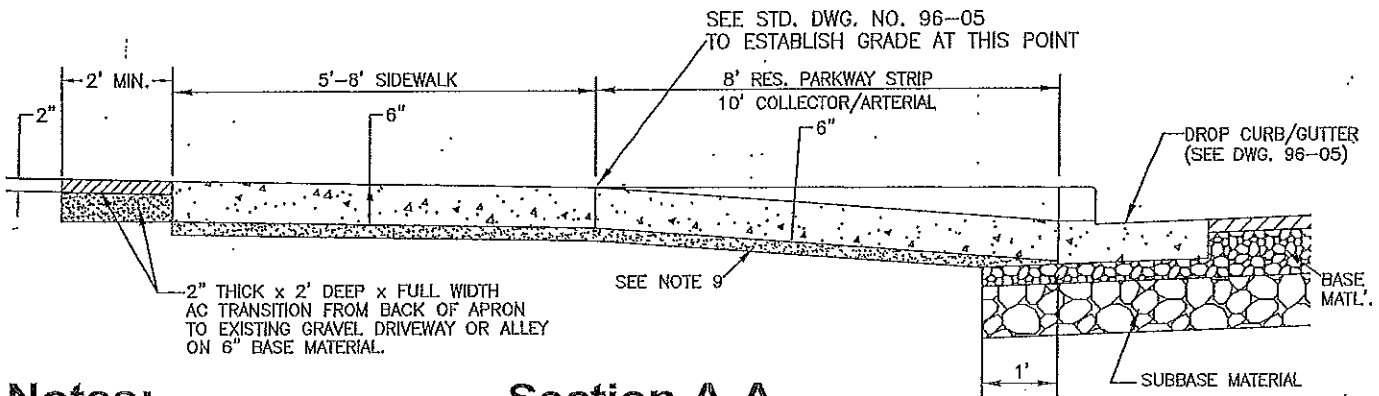
Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 6" WITH #4 REBAR 12" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRIVEWAY WIDTH 12 FEET.
4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRIVEWAY ARE POURED AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10') AND IN BETWEEN (5').
7. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE SAND, GRANITE, OR CRUSHED ROCK, MINIMUM 3", FIRMLY TAMPED.
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 2002 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY OF TALENT.

| NO. | DATE | INITIAL | REVISIONS |
|--|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| DRIVEWAY APRON ADJACENT TO CURB | | | |
| SCALE: NONE | | DWG. NO. 96-01 | |



Driveway/Alley Apron With Parking Strip

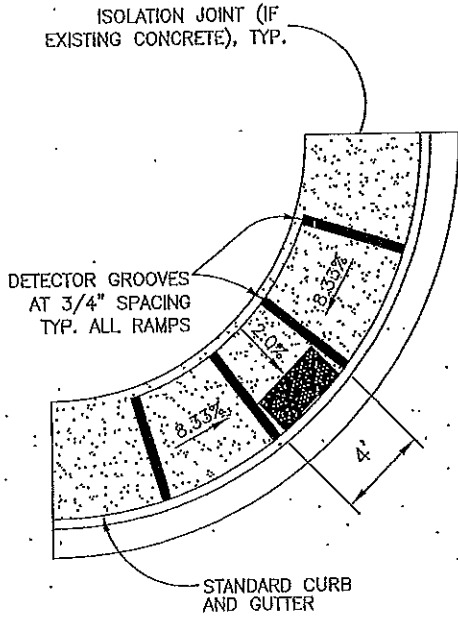


Notes:

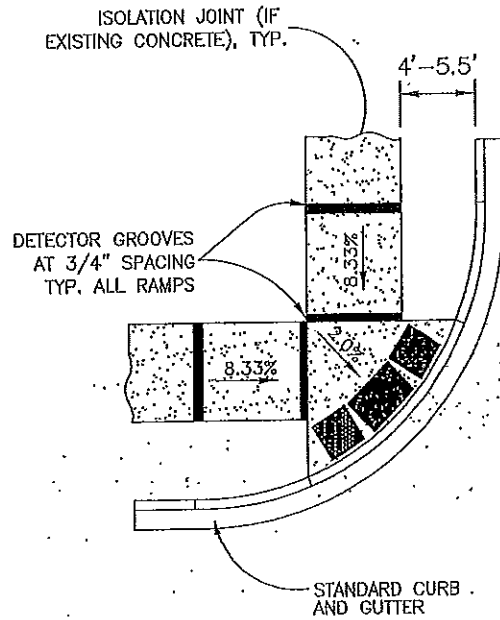
Section A-A

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 6" WITH #4 REBAR 12" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRIVEWAY WIDTH 12 FEET.
4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRIVEWAY ARE POURED AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10') AND IN BETWEEN (5').
7. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (ODOT TM-106)
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.

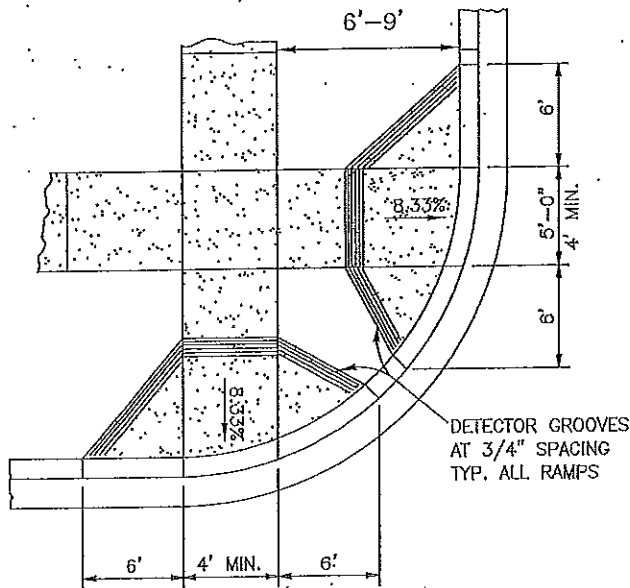
| NO. | DATE | INITIAL | REVISIONS |
|---|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| DRIVEWAY APRON ADJACENT TO PARKING STRIP | | | |
| SCALE: NONE | | DWG. NO. 96-02 | |



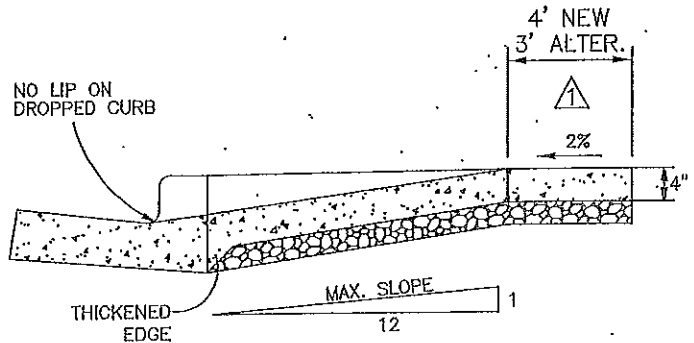
Center Ramp For Curb Line Sidewalk



Center Ramp For Property Line Sidewalk W/ Narrow Park Row



End Ramps For Property Line Sidewalks
(COMMERCIAL AREAS OR ARTERIAL STREETS)

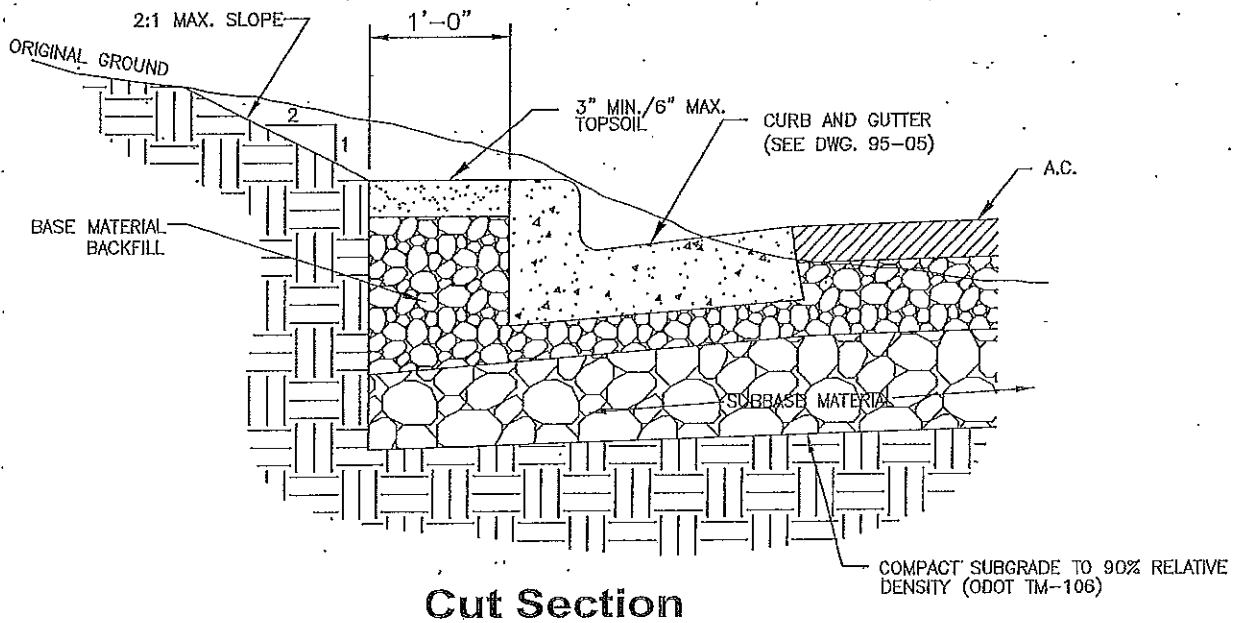
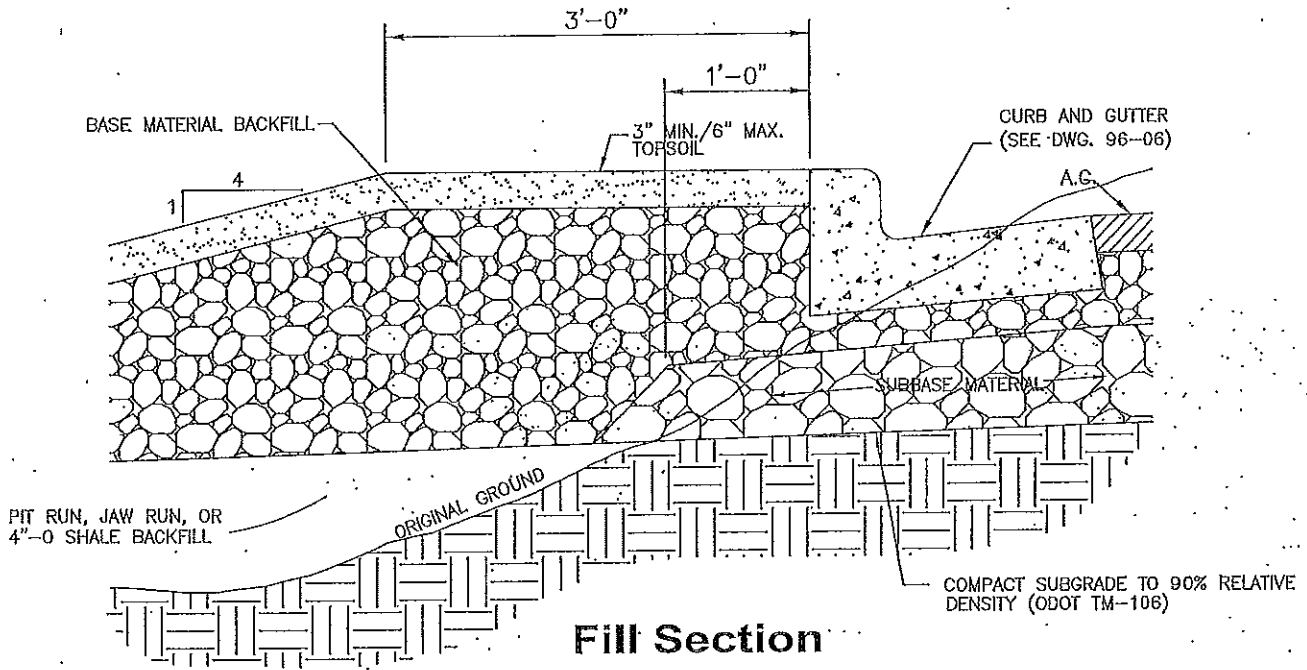


Section Through Ramp - All Views

NOTES

- 1) THE "AMERICANS WITH DISABILITIES ACT" REQUIRES THAT ACCESS RAMPS TO SIDEWALKS HAVE NO SLOPES GREATER THAN 12 HORIZONTAL TO 1 VERTICAL.
- 2) MIN. OF 2" GRANULAR CUSHION.
- 3) P.C.C. SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
- 4) IN CERTAIN AREAS THE RAMP MAY BE LOCATED TO MATCH CROSSWALKS OR TWO RAMPS MAY BE REQUIRED.
- 5) IN AREAS OF EXISTING CURB AND GUTTER, REMOVE AND REPLACE BOTH CURB AND GUTTER.

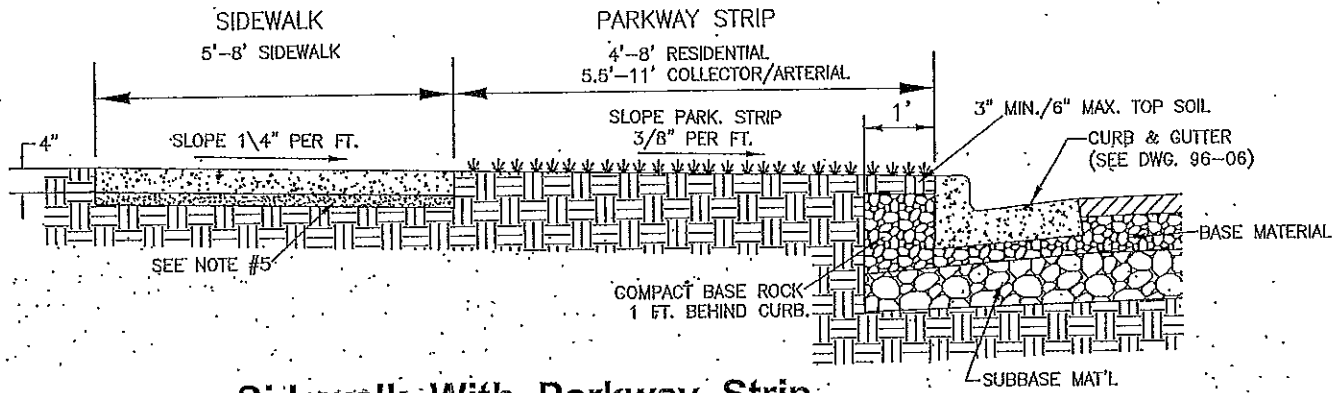
| NO. | DATE | INITIAL | REVISIONS |
|------------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| TYPICAL WHEELCHAIR RAMP | | | |
| SCALE: NONE | | DWG. NO. 96-03 | |



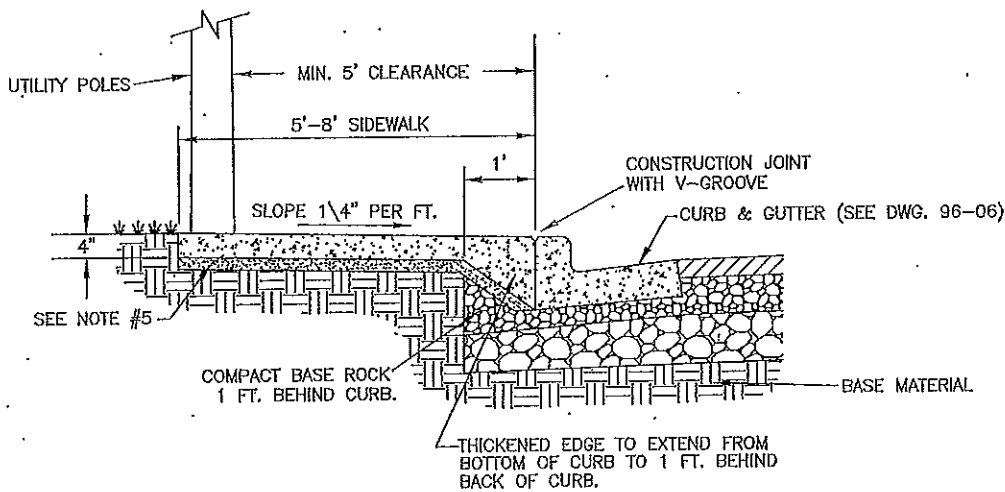
NOTES:

- 1) COMPACT ALL BACKFILL BEHIND CURBS TO 90% MINIMUM.

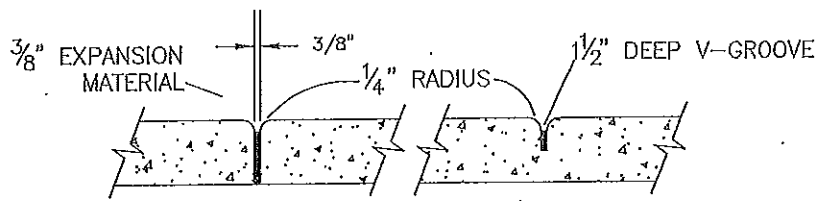
| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| CURB BACKFILL DETAILS | | | |
| SCALE: NONE | | DWG. NO: 96-04 | |



Sidewalk With Parkway Strip



Sidewalk Adjacent To Curb



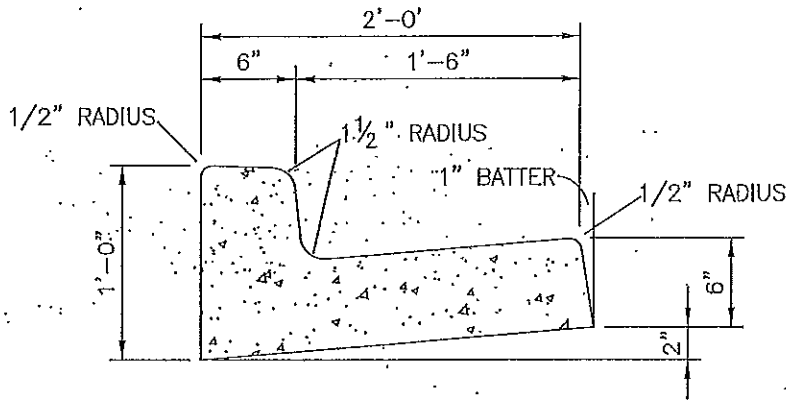
Notes:

1. SIDEWALKS SHALL HAVE A NOMINAL THICKNESS OF 4".
2. SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
3. WHERE SIDEWALK IS ADJACENT TO CURB, PLACE CONSTRUCTION JOINT IN LINE WITH CURB JOINT (10') AND IN BETWEEN (5').
4. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
5. GRANULAR MATERIAL UNDER SIDEWALKS & DRIVEWAY SHALL BE CRUSHED ROCK, COMPACTED TO 95% IN DRIVEWAY AREAS AND 90% IN SIDEWALKS (ODOT TM-106).
 - a. 2" MIN. THICKNESS UNDER SIDEWALKS.
 - b. 3" MIN. THICKNESS UNDER DRIVEWAYS.
6. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
7. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPECS. AS AMENDED BY THE CITY.

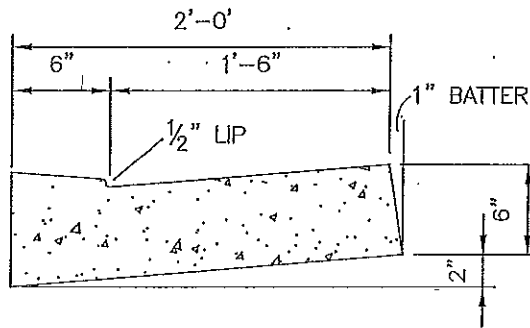
SIDEWALK ISOLATION JOINT
PLACE EVERY 50'

SIDEWALK CONTRACTION JOINT
PLACE EVERY 5'

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| SIDEWALK DETAILS | | | |
| SCALE: NONE | | DWG. NO. 96-05 | |



STANDARD CURB AND GUTTER

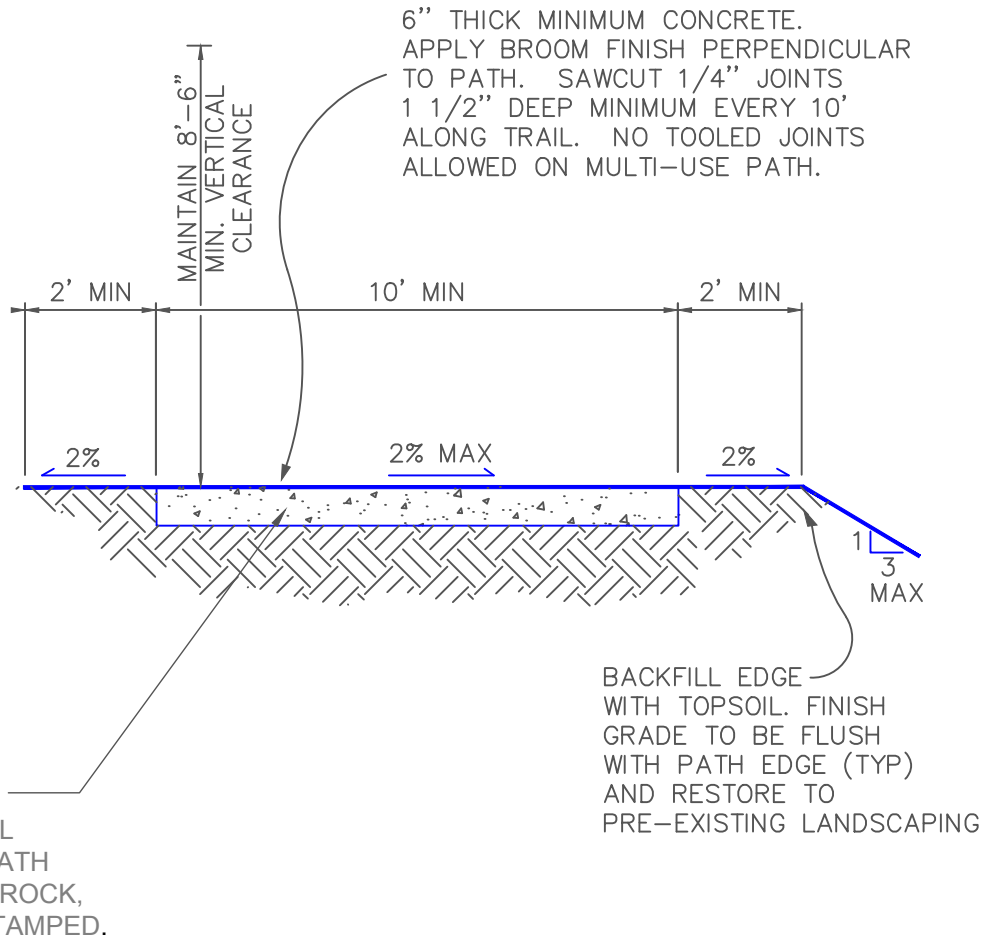


**DROP CURB AND GUTTER
AT DRIVEWAY APRONS**

Notes:

1. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
2. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S. AS AMENDED BY THE CITY.
3. INSTALL CONTRACTION JOINTS EVERY 10', AND 3/8" ISOLATION JOINTS EVERY 100', AND AT END OF CURB RETURNS

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| CURB & GUTTER DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-06 | |



NOTES:

PREPARED SUBGRADE:
 COM ACT ROADBASE OR USE ON-SITE GRAVEL MATERIAL WHERE APPROVED BY ENGINEER. OVER EXCAVATE IF UNSTABLE SUB SOILS ARE ENCOUNTERED AND REPLACE WITH SUITABLE FILL MATERIAL. COMPACT ALL FILL AREAS TO 95% STANDARD PROCTOR AT 2% OPTIMUM. REMOVE ALL TOPSOIL PRIOR TO SUBGRADE PREPARATION.

DRAWN BY: **Zac Moody**
 CHECKED BY: **Jeff Ballard**

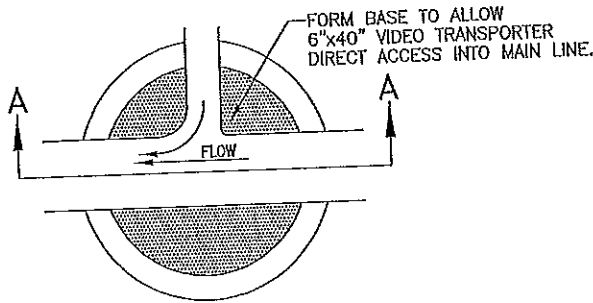
APPROVED BY:
 DIRECTOR OF PUBLIC WORKS

CITY OF TALENT, OREGON

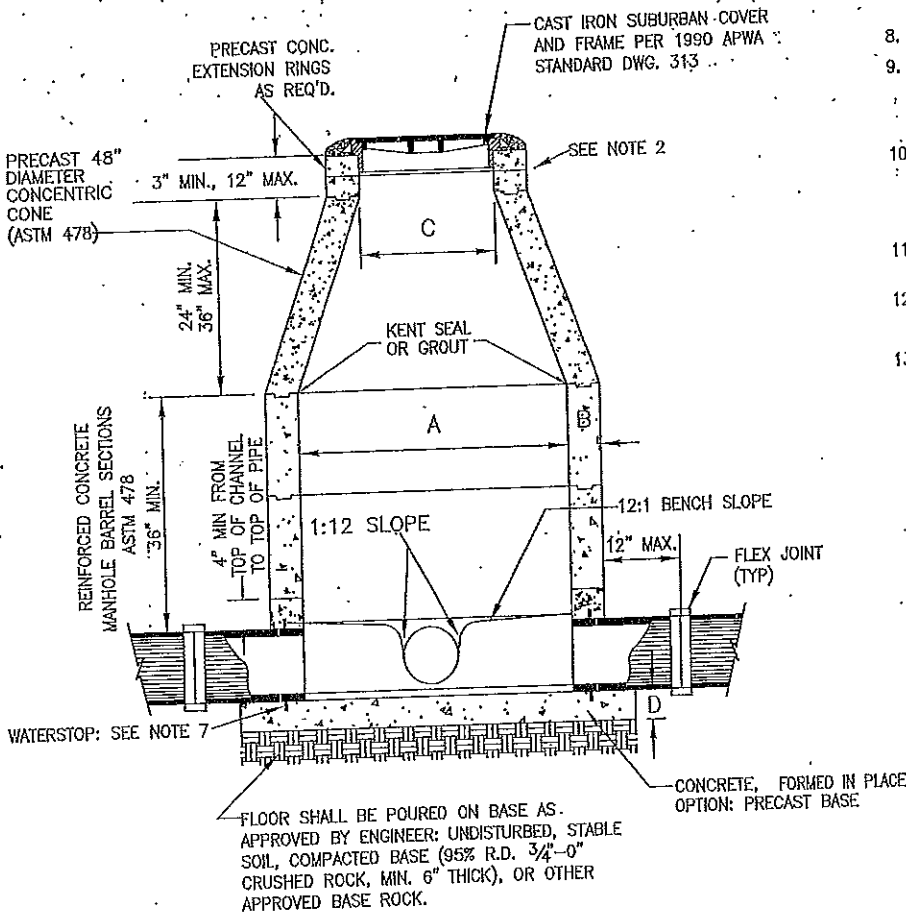
**MULTI-USE PATH
 SECTION DETAIL**

ISSUED: 9/13/2017
 REVISED: 9/20/2017

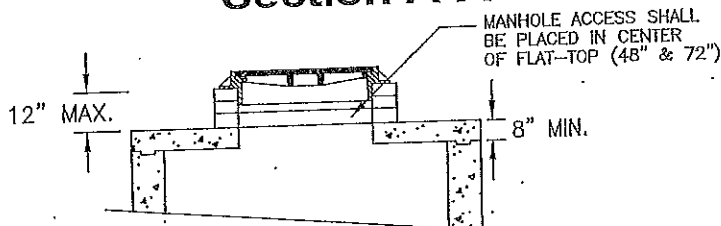
DRAWING NO.
96-07



Plan View of Base



Section A-A



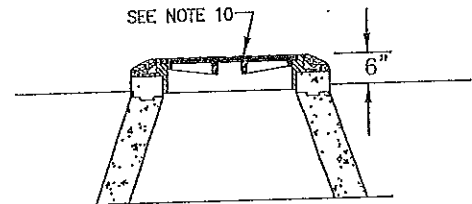
48" & 72" Reinforced Manhole Flat-Top

(See Note # 9)

| PIPE SIZE ϕ | A | B | C | D |
|------------------|---------------------------|----|-----|----|
| 24" OR LESS | 48" | 6" | 24" | 6" |
| 27" TO 42" | 72" | 6" | 24" | 9" |
| 48" & LARGER | SPECIAL MANHOLE STRUCTURE | | | |

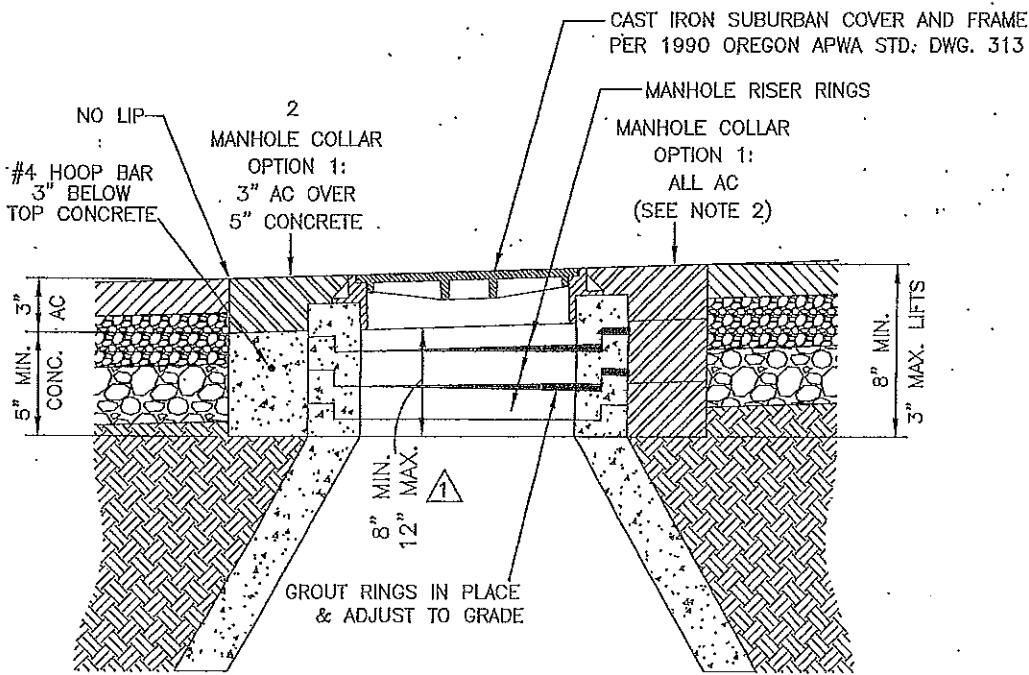
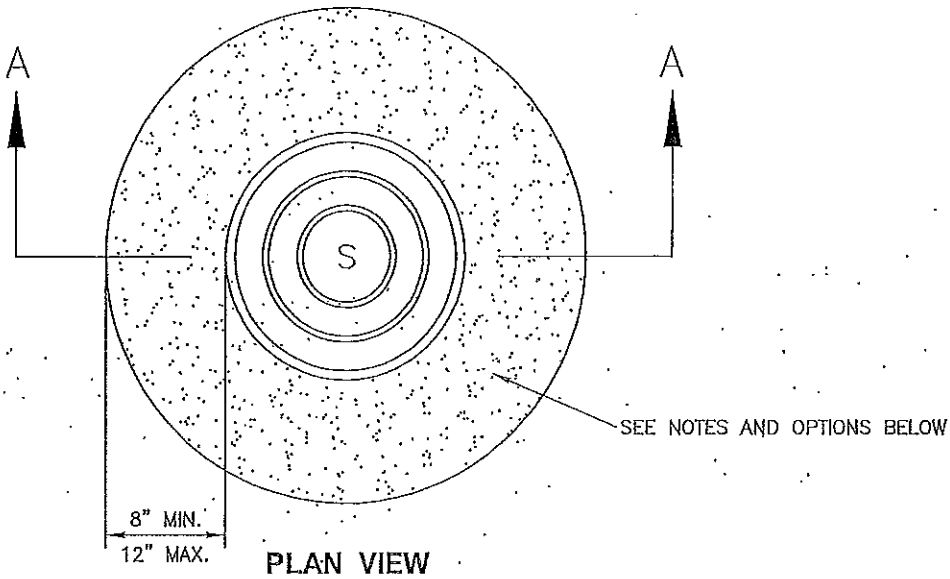
Notes:

1. CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO.
2. FRAME AND RISER RINGS SHALL BE SEALED WITH PREFORMED PLASTIC OR RUBBER TO FORM A WATERTIGHT SEAL. GROUT MAY BE USED.
3. FORM STRAIGHT "U" CHANNEL WITH 1:12 SLOPE MORTAR SIDE. FULL CHANNEL PIPE WITH TOP HALF REMOVED IS ACCEPTABLE.
4. MAKE ALIGNMENT CHANGES WITH UNIFORM "U" CHANNEL, WITH SMOOTH CURVED PATH.
5. MAKE CHANGES IN CHANNEL SIZE WITH A SMOOTH, TAPERING TRANSITION.
6. FINISH PIPE ENDS FLUSH WITH INSIDE WALLS, GROUTED.
7. PIPE CONNECTION SHALL CONFORM WITH APWA OREGON CHAPTER, 1990 STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION SECTION 306.3.01B
8. STANDARD MANHOLE COVER MARKED "D," FOR DRAINAGE.
9. ALL 48" DIA. MANHOLES WITH A DEPTH OF 42" OR GREATER, FROM THE RIM TO THE TOP OF PIPE, SHALL USE A CONCENTRIC CONE (ASTM 478).
10. RING AND COVER TO PROJECT 6" ABOVE ADJACENT GROUND FOR MANHOLES OUTSIDE OF THE TRAVELLED WAY. SEE STD. DWG. 95-11 FOR MANHOLES IN THE TRAVELLED WAY.
11. ALL LIDS TO HAVE A PRY-NOTCH AND AT LEAST ONE BUT NOT MORE THAN TWO LIFT HOLES.
12. MAX. DROP ACROSS MANHOLE: 2'. DROPS EXCEEDING 2' SHALL BE A DROP MANHOLE, SEE DWG. NO. 95-12.
13. MANHOLE SHALL CONFORM WITH APWA OREGON CHAPTER 1990 STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED BY THE CITY.



Outside Of Travelled Way Manhole Adjustment

| NO. | DATE | INITIAL | REVISIONS |
|---------------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| STORM DRAIN MANHOLE DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-10 | |

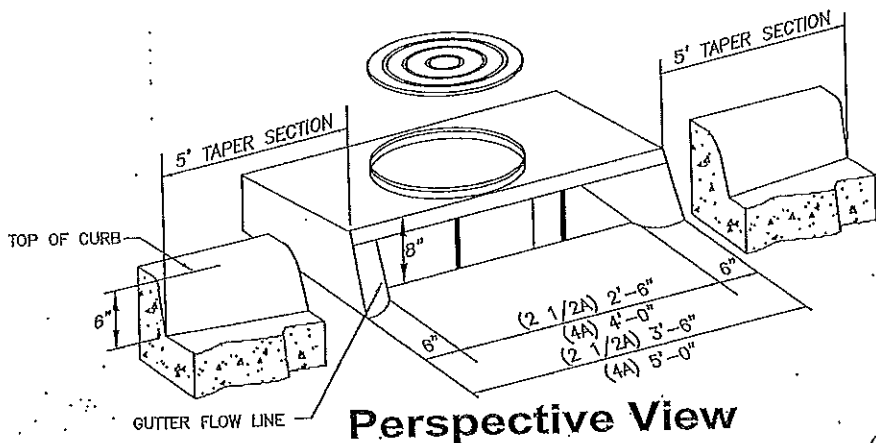


SECTION A-A

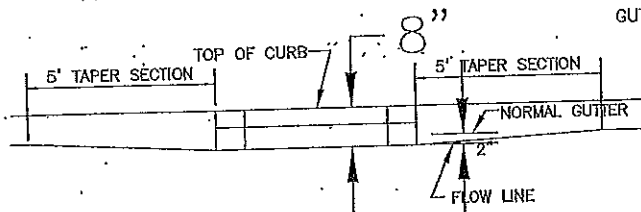
NOTES:

- 1) CONCRETE TO BE CLASS 3300-3/4" 0.54 W/C RATIO.
- 2) AC TO BE CLASS "C" IN 3" MAX. LIFTS. ALL BUT TOP LIFT SHALL BE COMPACTED WITH PNEUMATIC TAMPER WITH 6" MAX. HEAD HAMMER.

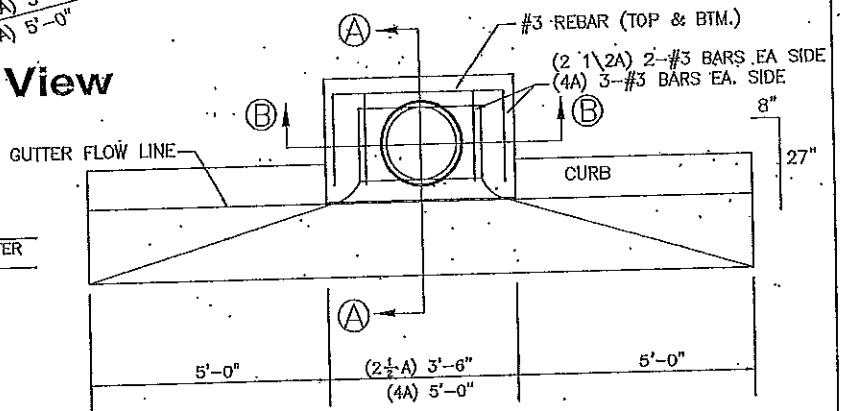
| NO. | DATE | INITIAL | REVISIONS |
|--------------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| MANHOLE ADJUSTMENT DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-11 | |



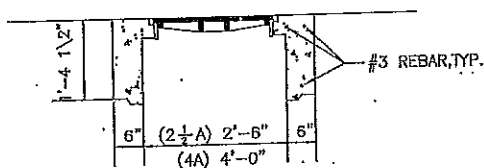
Perspective View



Elevation



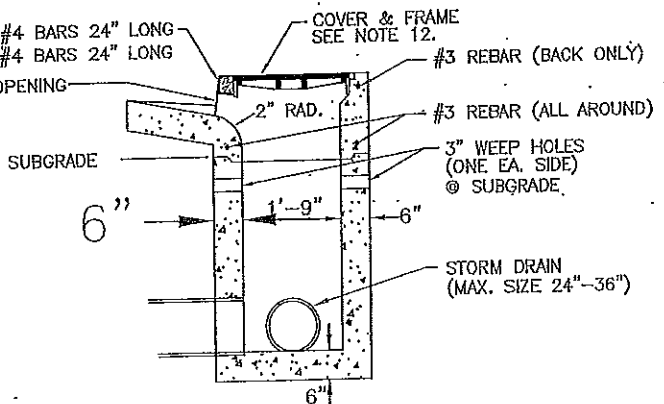
Plan View



Section B-B

ANGLE NOSING $3\frac{1}{2}'' \times 3\frac{1}{2}'' \times \frac{1}{4}''$
 ANCHORED WITH:

(2 1/2A) 2-HORIZ. #4 BARS 24" LONG
 (4A) 4-HORIZ. #4 BARS 24" LONG
 MAINTAIN $4\frac{1}{2}''$ OPENING

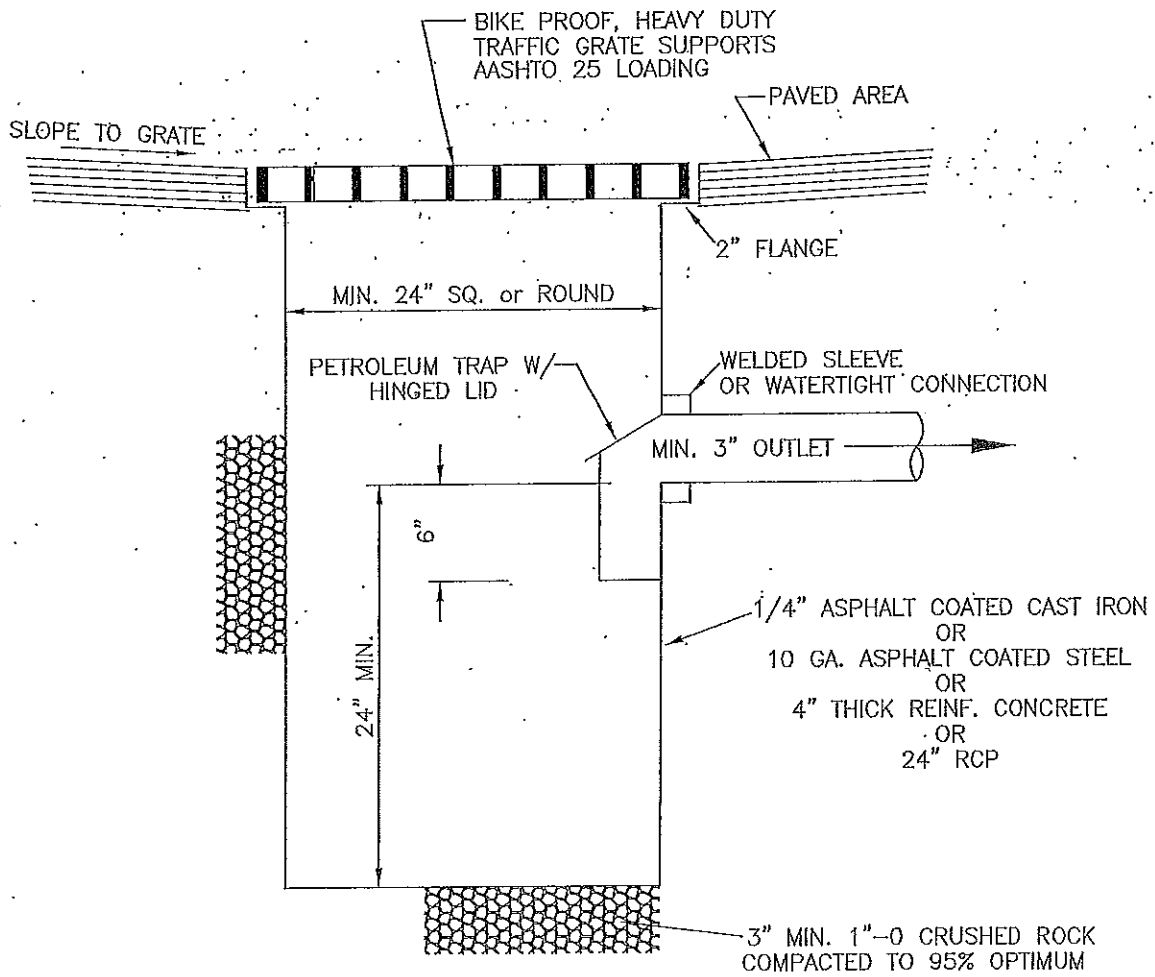


Section A-A

Notes

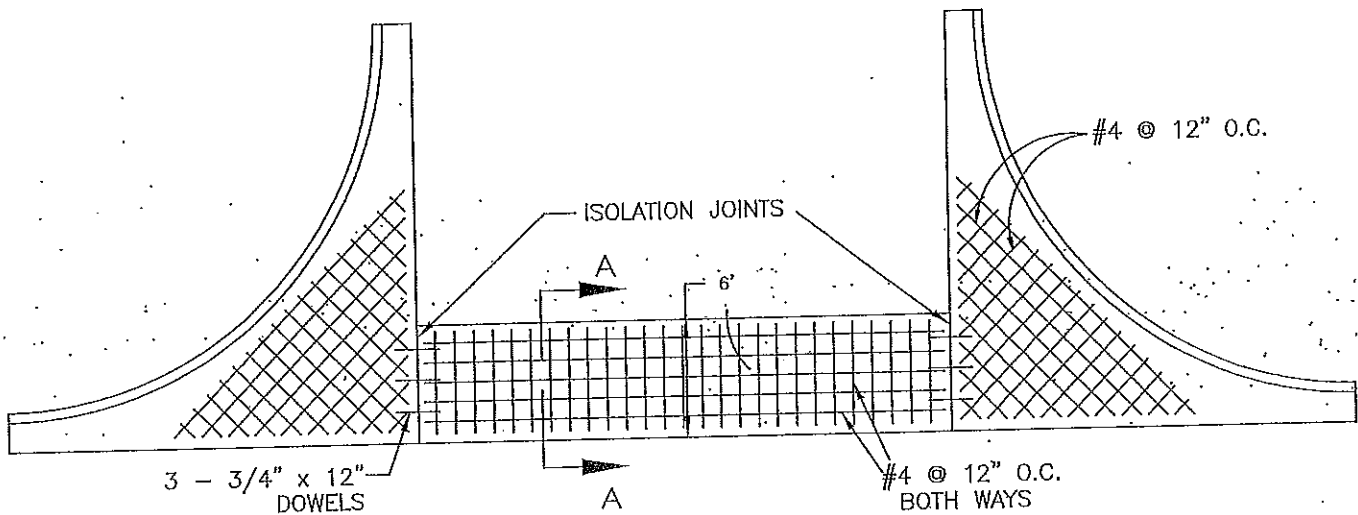
- 1) SURFACE CROSS-SLOPE FOR NEW CONSTRUCTION SHALL BE $1/4''$ RISE PER FOOT FROM TOP OF CURB TO BACK OF SIDEWALK.
- 2) EXISTING CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR COLD JOINT WHEN JOINT IS WITHIN 4 FEET OF THE TRANSITION POINT.
- 3) ALL CONCRETE SHALL BE SAWCUT AND A SMOOTH, UNIFORM JOINT PROVIDED.
- 4) CURING COMPOUND SHALL BE APPLIED IMMEDIATELY AFTER SURFACE IS FINISHED: WHITE PIGMENT RECOMMENDED, CLEAR PIGMENT ACCEPTABLE.
- 5) FLOOR SHALL BE POURED ON: UNDISTURBED, STABLE SOIL; COMPACTED BASE (95% R.D. $3/4''-0$ CRUSHED ROCK, 6" MIN. THICK).
- 6) SET SECTION JOINTS IN 1:2 MORTAR AND MORTAR JOINT SEALANT ST-8, 1" WIDE. SEALANT SHALL MEET FED. SPECS. SS-5-00201 (CSA-FSS).
- 7) ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVE VOIDS.
- 8) PIPE(S) SHALL BE FLUSH WITH INSIDE WALL.
- 9) ALL CONCRETE SHALL BE CLASS 3300 - $3/4''$ 0.54 W/C RATIO.
- 10) SURFACE HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH ADJACENT SIDEWALK.
- 11) ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- 12) COVER SHALL BE INLAND FOUNDRY CO. INC. 706 MANHOLE RING AND COVER (OR EQUAL), SUITABLE FOR HEAVY TRAFFIC LOADING.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| CONCRETE CURB INLET | | | |
| SCALE: NONE | | DWG. NO. 96-20 | |

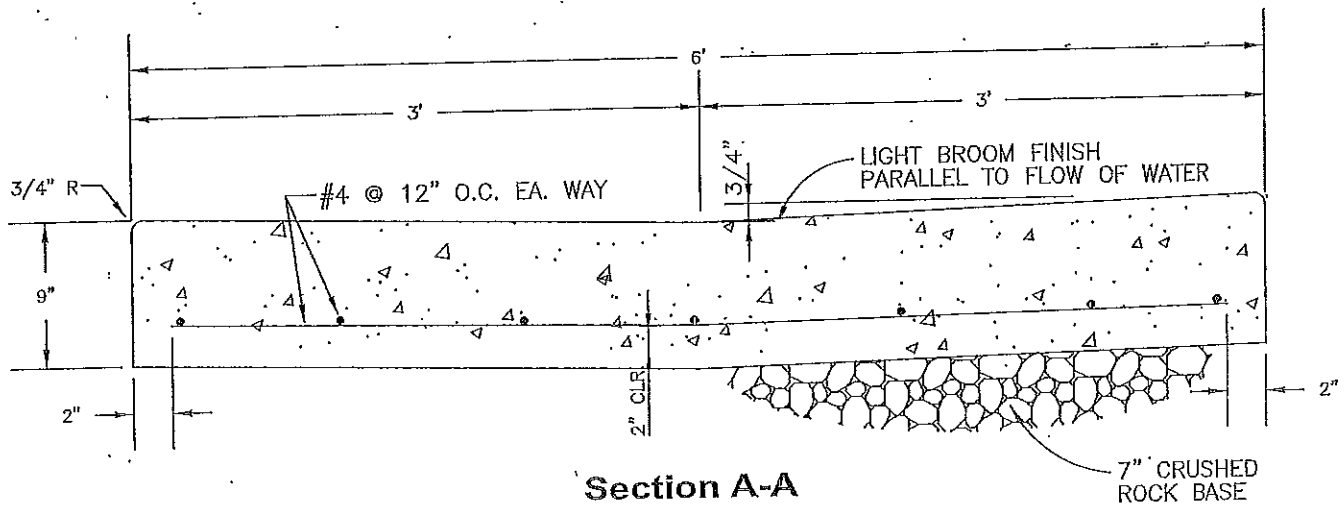


AREA CATCH BASIN DETAIL

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| AREA CATCH BASIN | | | |
| SCALE: NONE | | DWG. NO. 96-22 | |



Plan View

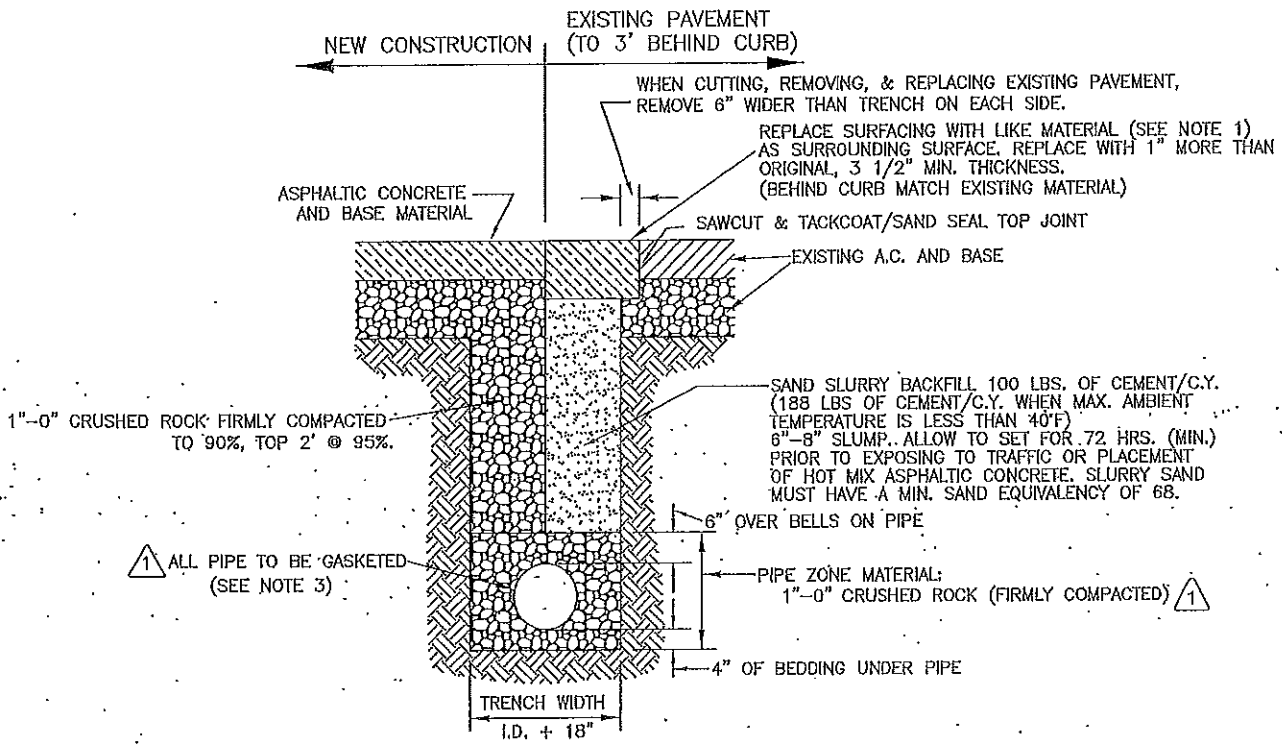


Section A-A

NOTES:

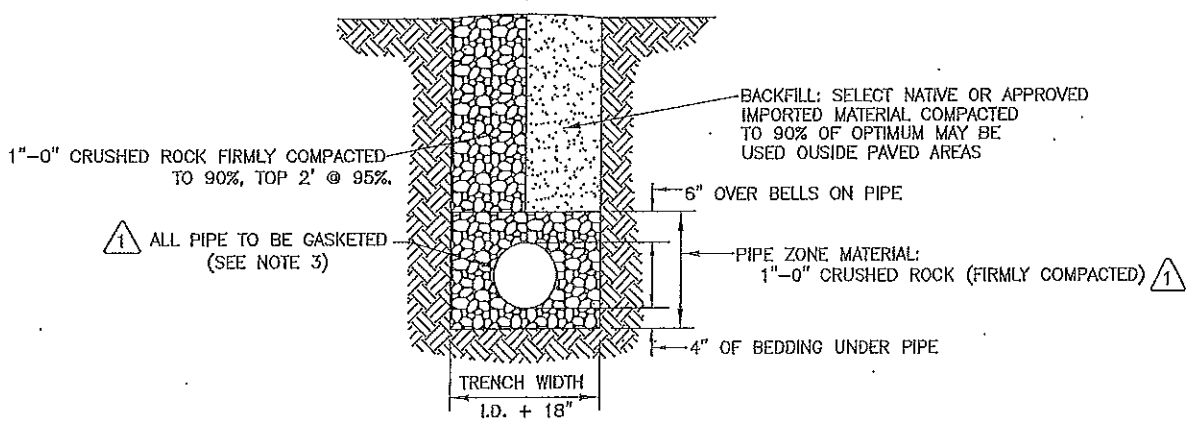
- 1) CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
- 2) MIX WILL BE VIBRATED OR TAMPED AS DIRECTED BY THE ENGINEER.
- 3) EXPANSION JOINTS SHALL BE CONSTRUCTED OF 3/8" ASPHALT IMPREGNATED FELT.
- 4) VALLEY GUTTER SHALL PASS A WATER TEST TO ASSURE FLOW.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| STANDARD VALLEY GUTTER | | | |
| SCALE: NONE | | DWG. NO. 96-23 | |



**TRENCH DETAIL
UNDER PAVED AREAS**

NON-PAVED STREETS
& ALLEYS & OVER
3' BEHIND CURB OUTSIDE R/W & OUT
OF TRAFFIC AREAS



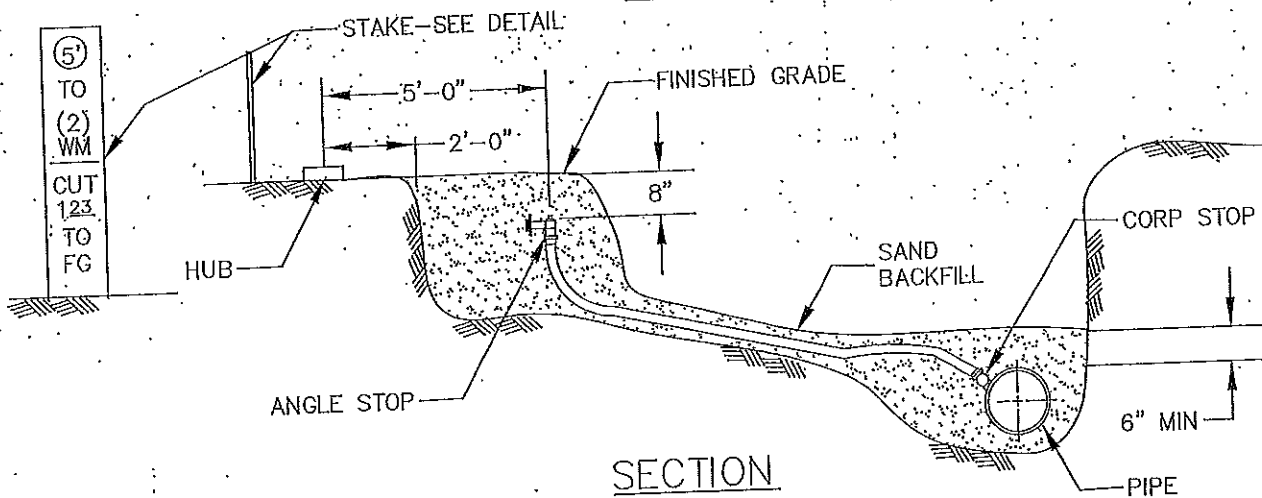
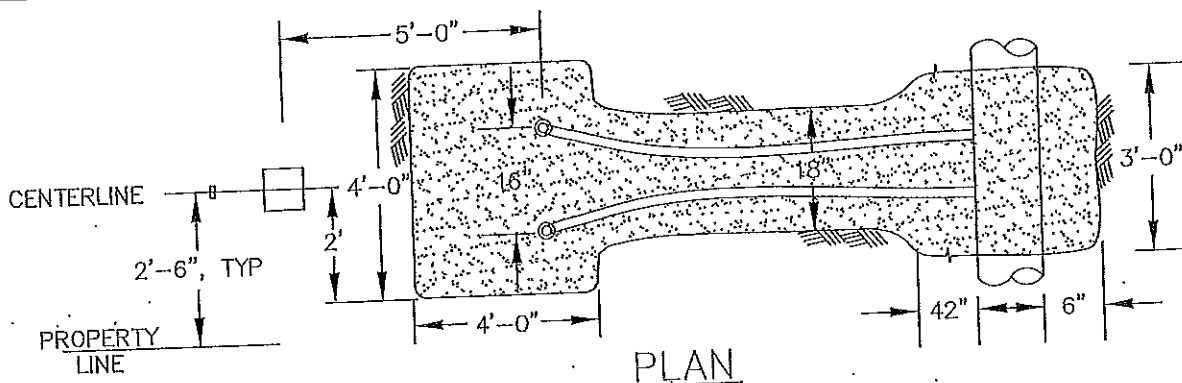
**TRENCH DETAIL
OUTSIDE PAVED AREAS**

NOTES:

1. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY.
2. ALL STEEL TRAFFIC PLATES IN TRAVELLED AREAS MUST BE "RAMPED" WITH COLD MIX AC TO ALLOW SMOOTHER TRANSITION.
 - a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
 - b) MINIMUM 3/4" STEEL PLATE THICKNESS.
3. ALL GASKETED JOINTS SHALL BE PRESSURE TESTABLE. (CONCRETE PIPE - ASTM C443; PVC & HDPE PIPE - ASTM D3212)

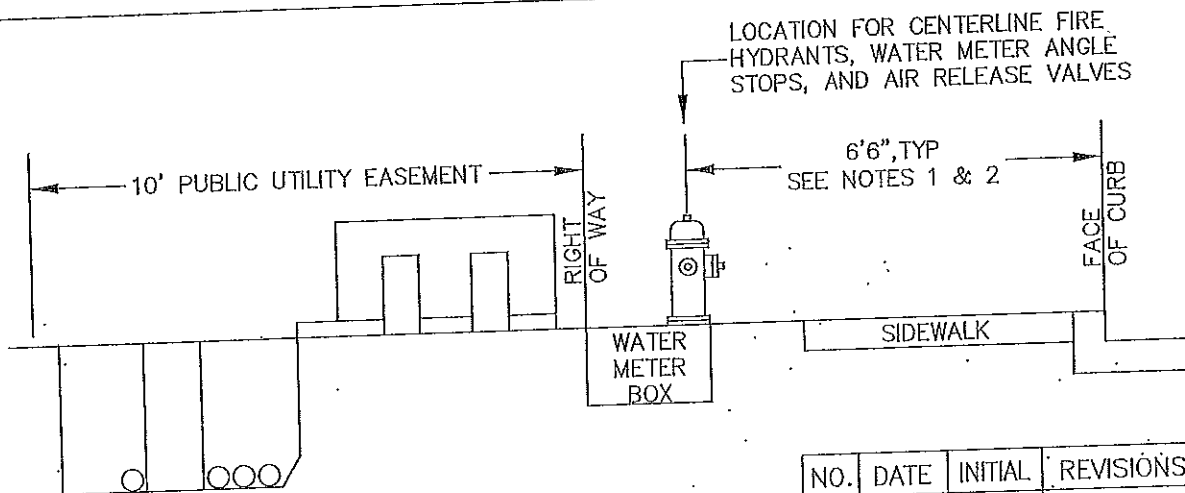


| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| TRENCH DETAILS | | | |
| SCALE: NONE | | DWG. NO. 96-30 | |



NOTES:

1. DEPTH OF COVER SHALL BE 3 FEET AT MAIN AND 2 FEET AT METER PAD.
2. WATER METER STAKE INFORMATION SHALL INCLUDE 1) OFFSET DISTANCE, 2) NUMBER OF SERVICE METERS, AND 3) CUT OR FILL TO FINISHED GRADE.

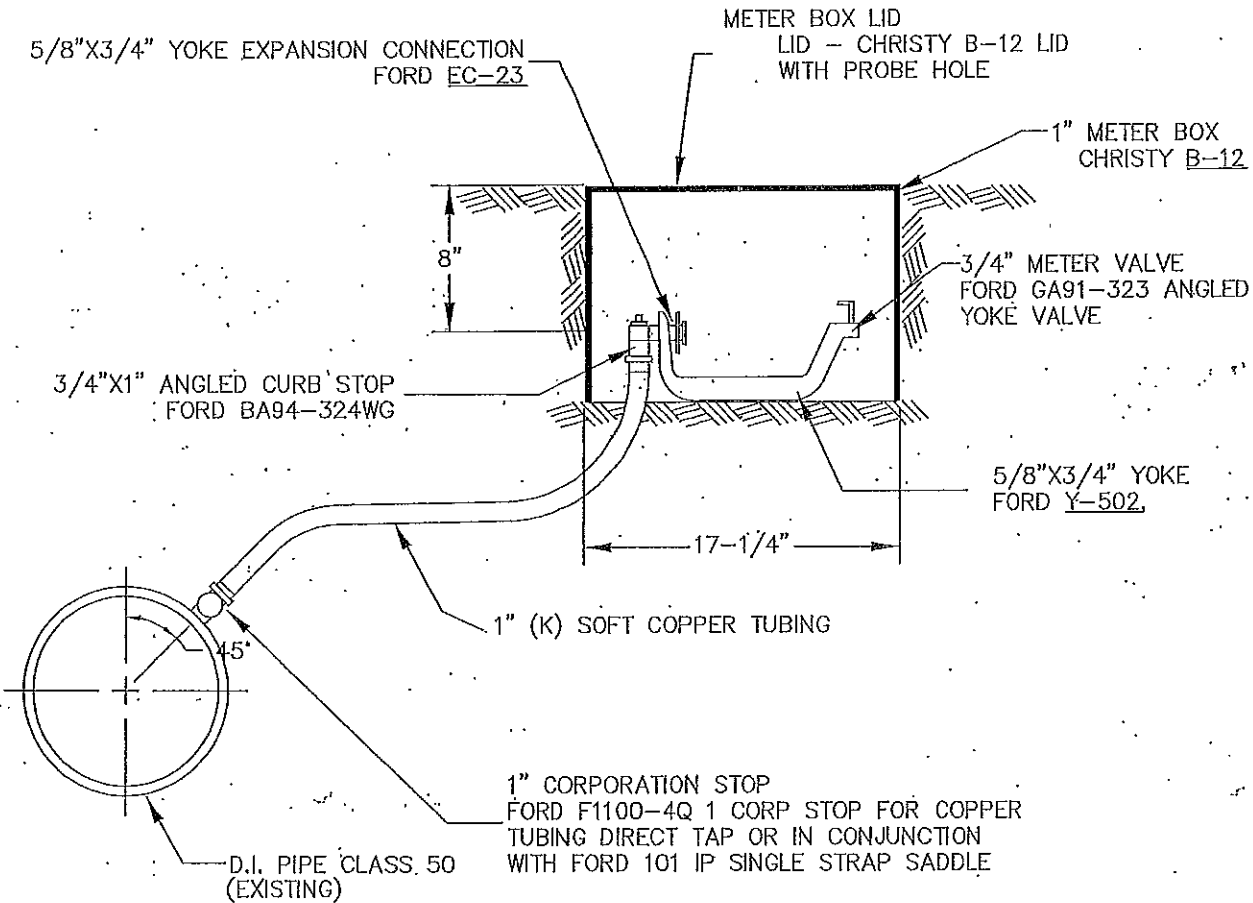


NOTES:

1. IF PARKWAY SITUATION, THEN LOCATE 2' FROM FRONT EDGE OF SIDEWALK.
2. IF RIGHT-OF-WAY/STREET WIDTHS PRECLUDE FIRE HYDRANTS, WATER METERS, AND AIR RELEASE VALVES FROM BEING WITHIN RIGHT-OF-WAY, THEN DESIGN ENGINEER/SURVEYOR/DEVELOPER SHALL CONFIRM LOCATIONS WITH MWC.

| NO. | DATE | INITIAL | REVISIONS |
|--|------|--------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| METER INSTALLATION AND LOCATION | | | |
| SCALE: NONE | | DWG. NO. 100 | |

WATER SERVICE CONNECTION TO EXISTING WATER MAIN



CITY OF TALENT

1. PERFORM SERVICE LINE TAPPIING.
2. FURNISH AND INSTALL TYPE "K" SOFT COPPER SERVICE
3. FURNISH AND INSTALL CORPORATION AND ANGLE STOPS.
4. FURNISH AND INSTALL YOKE BAR; CUSTOMER VALVE, METER BOX, BOX LID.
5. INSPECT.
6. FURNISH AND INSTALL METER AND YOKE EXPANDER.

| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 2/08 DRAWN: JAB APPROVED: JLS

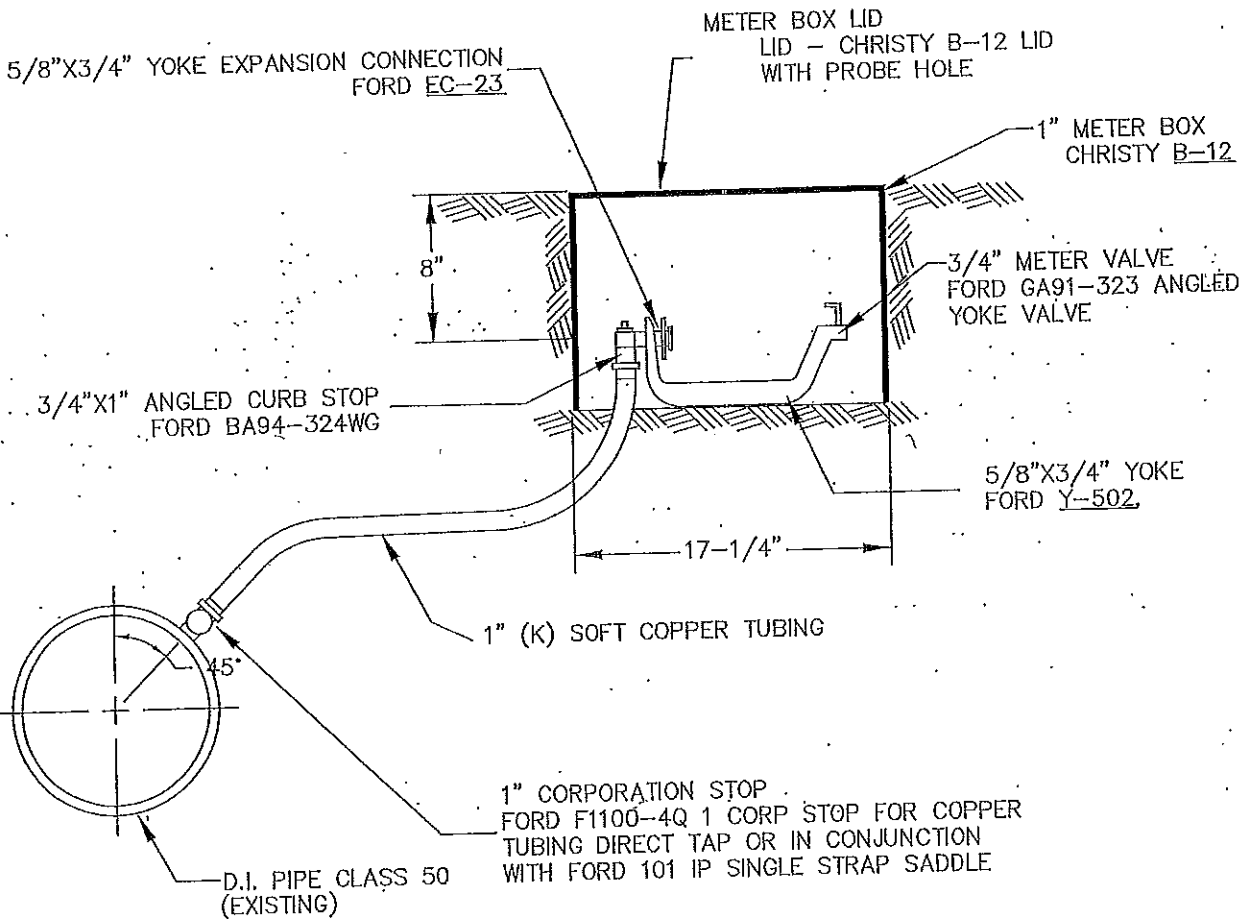
CITY OF TALENT
STANDARD DETAIL

**1" SERVICE WITH 5/8"X3/4"
METER SETTING - EXISTING MAIN**

SCALE: NONE DWG. NO. 101

* SERVICES GREATER THAN 2" TO BE
INSTALLED BY CITY APPROVED
INSTALLER*

WATER SERVICE CONNECTION TO NEW WATER MAIN



CITY OF TALENT

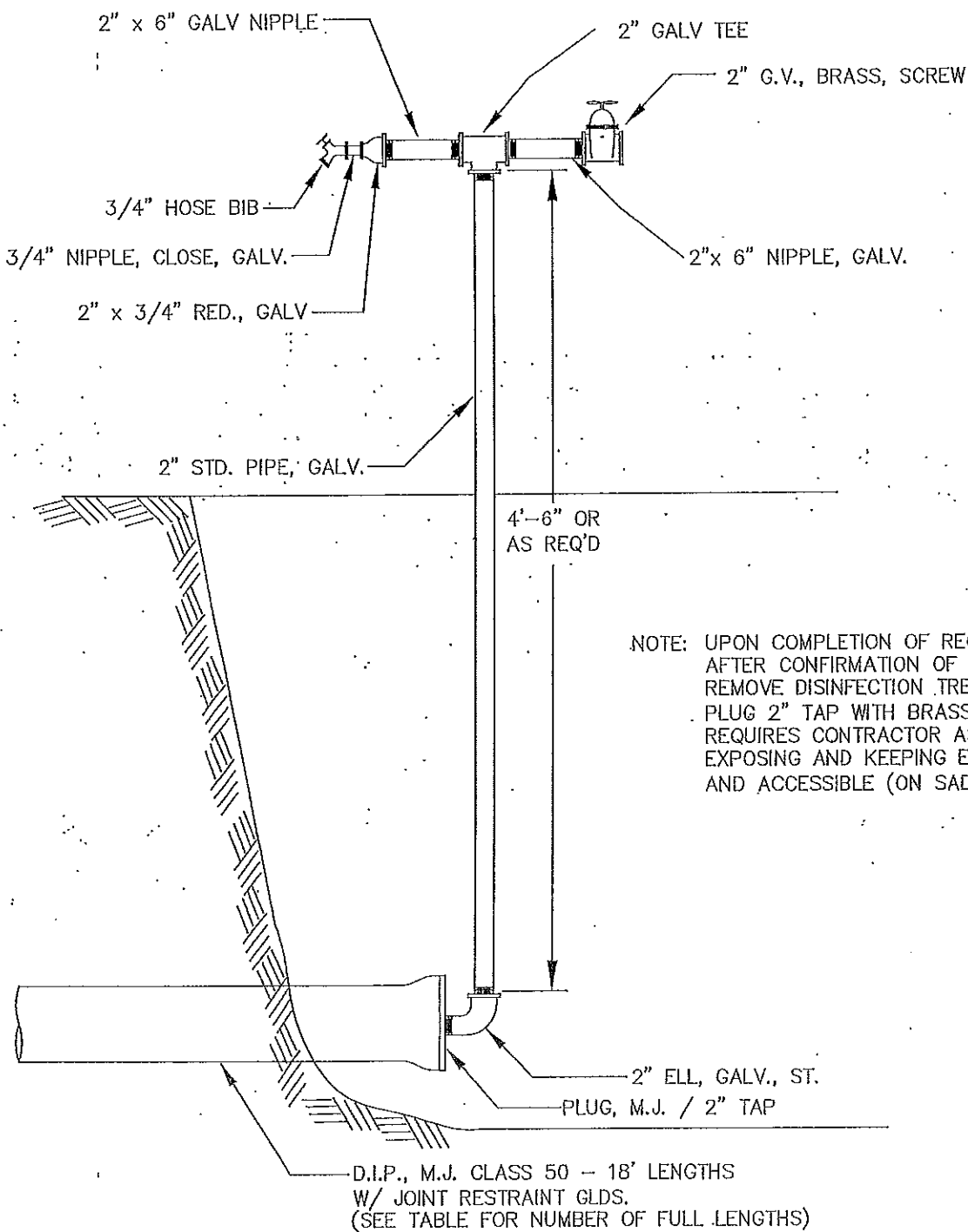
1. INSPECT.
2. FURNISH AND INSTALL METER.

CONTRACTOR

1. EXCAVATE AND BACKFILL.

| NO. | DATE | INITIAL | REVISIONS |
|--|------|------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| * 1"-2" SERVICE WITH 5/8"X3/4" METER SETTING - NEW MAIN | | | |
| SCALE: NONE | | | DWG. NO. 101A |

* SERVICES GREATER THAN 2" TO BE INSTALLED BY CITY APPROVED INSTALLER*

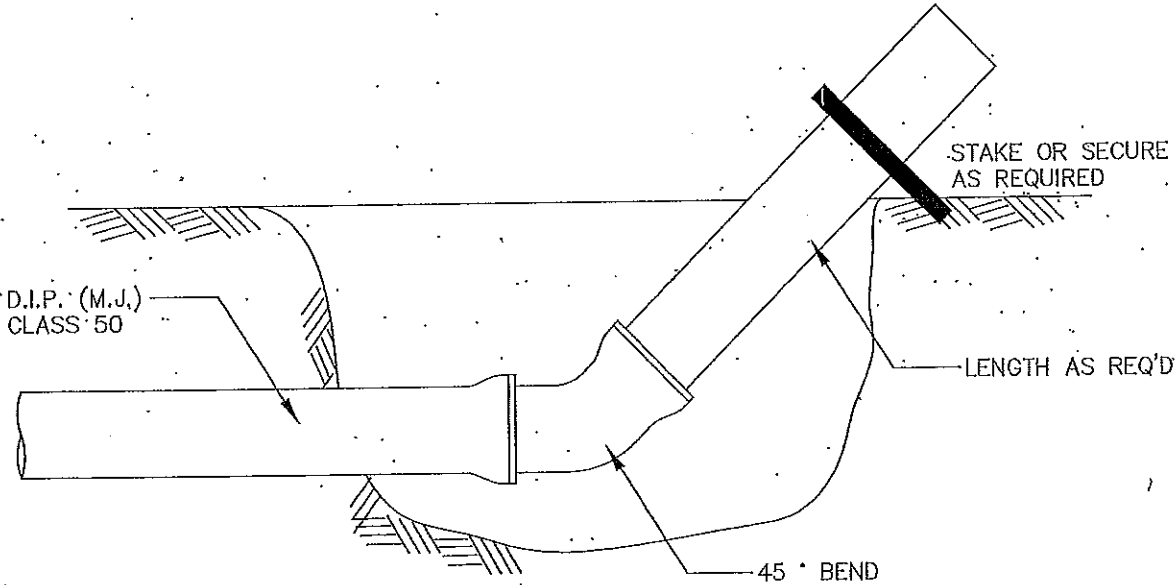


NOTE: UPON COMPLETION OF REQUIRED TESTS AND AFTER CONFIRMATION OF RESULTS, CITY TO REMOVE DISINFECTION TREE ASSEMBLY AND PLUG 2" TAP WITH BRASS PLUG. REQUIRES CONTRACTOR ASSISTANCE WITH EXPOSING AND KEEPING END OF MAIN CLEAR AND ACCESSIBLE (ON SADDLES OK).

| SIZE TABLE | |
|------------|---|
| 4" | 3 |
| 6" | 3 |
| 8" | 3 |
| 12" | 5 |

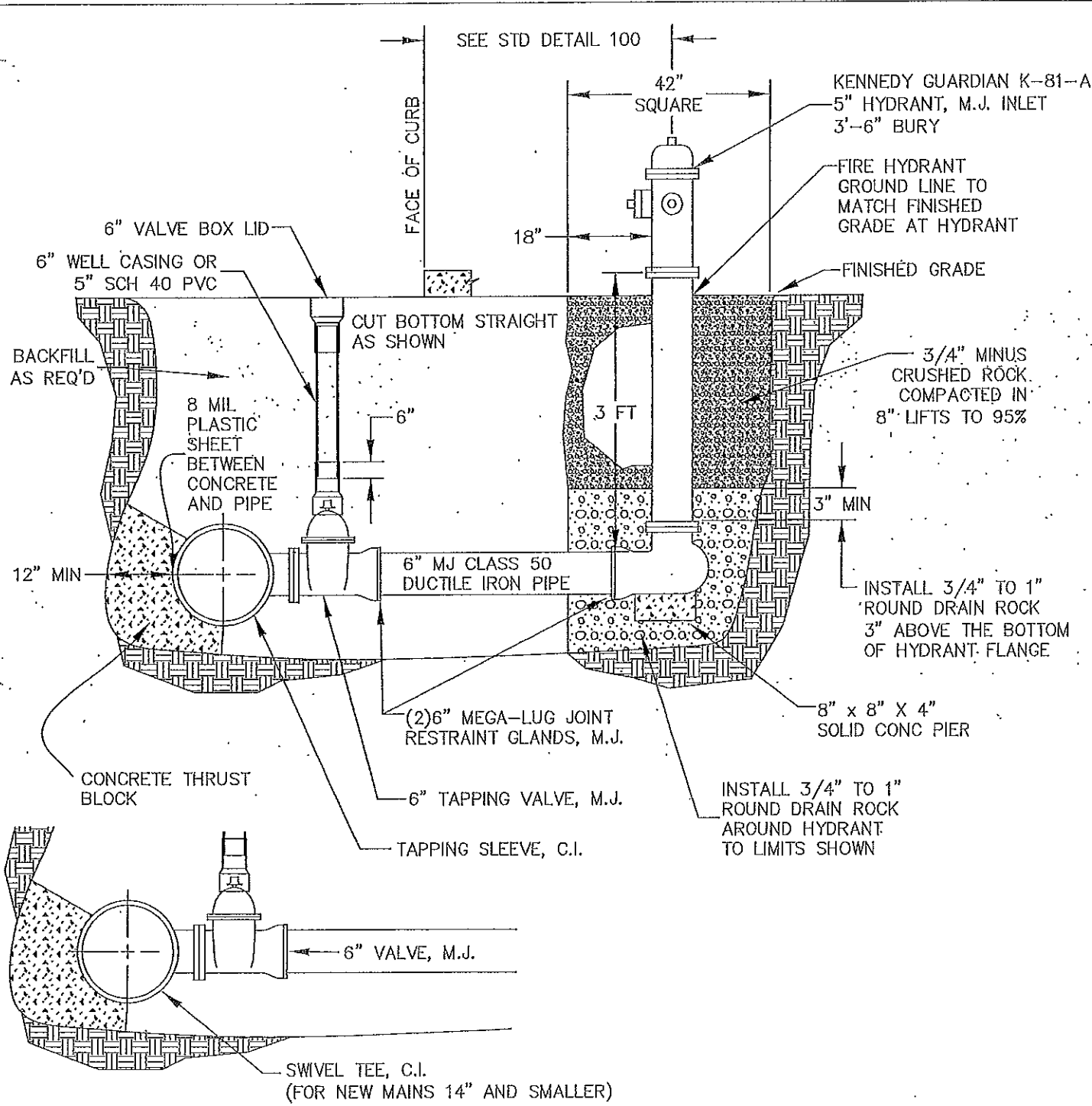
| NO. | DATE | INITIAL | REVISIONS |
|---|------|------------|--------------------------------|
| 1 | 6/00 | TJF | CONVERT TO ACAD/CITY REVISIONS |
| DATE: 6/98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| PRESSURE TEST, DISINFECTION, DECHLORINATION AND SAMPLING TREE W/ END DRAIN | | | |
| SCALE: NONE | | | DWG. NO. 102 |

NOTE: INSURE AGAINST FLUSHED
WATER RE-ENTERING THE
PIPELINE



4"-12" PIPE - FLUSH POINT IS SAME SIZE AS PIPE BEING INSTALLED.
LARGER THAN 12" PIPE - TO BE DETERMINED BY CITY.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|------------|-----------------|
| 1 | 6/00 | TJF | CONVERT TO ACAD |
| DATE: 6/98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| FULL SIZE FLUSH POINT | | | |
| SCALE: NONE | | | DWG. NO. 103 |



1. AN OFFSET SIMILAR TO STD DETAIL 105 WILL BE REQUIRED TO ALLOW THE USE OF A STANDARD 3'-6" BURY-HYDRANT WHEN MAIN IS LARGER THAN 8" OR MAIN HAS MORE THAN 3'-0" OF COVER.

A MINIMUM OF 5'-0" CLEAR SPACE SHALL BE MAINTAINED AROUND
 2. THE CIRCUMFERENCE OF THE FIRE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.

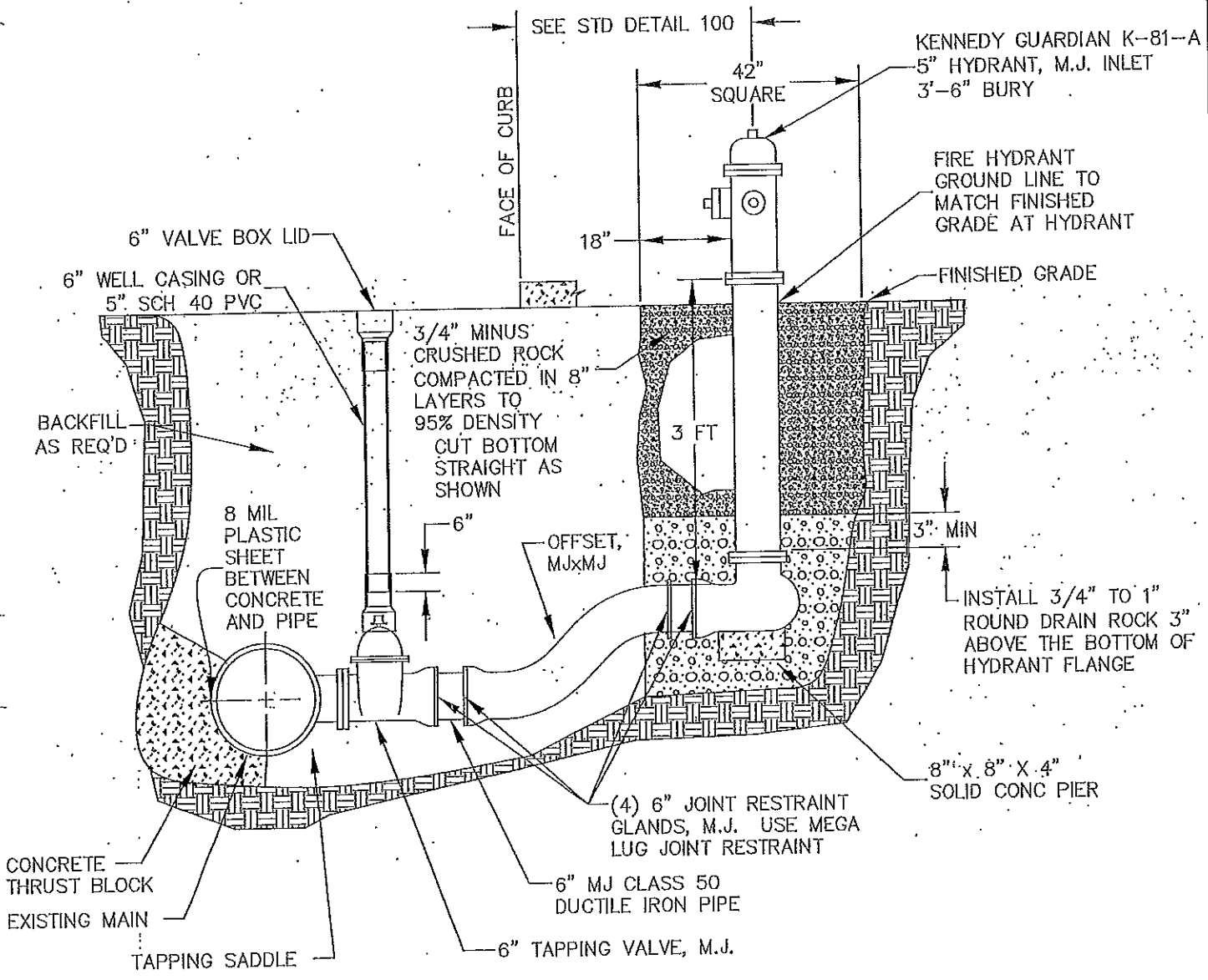
| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 02/08 DRAWN: JAB APPROVED: JLS

CITY OF TALENT
 STANDARD DETAIL

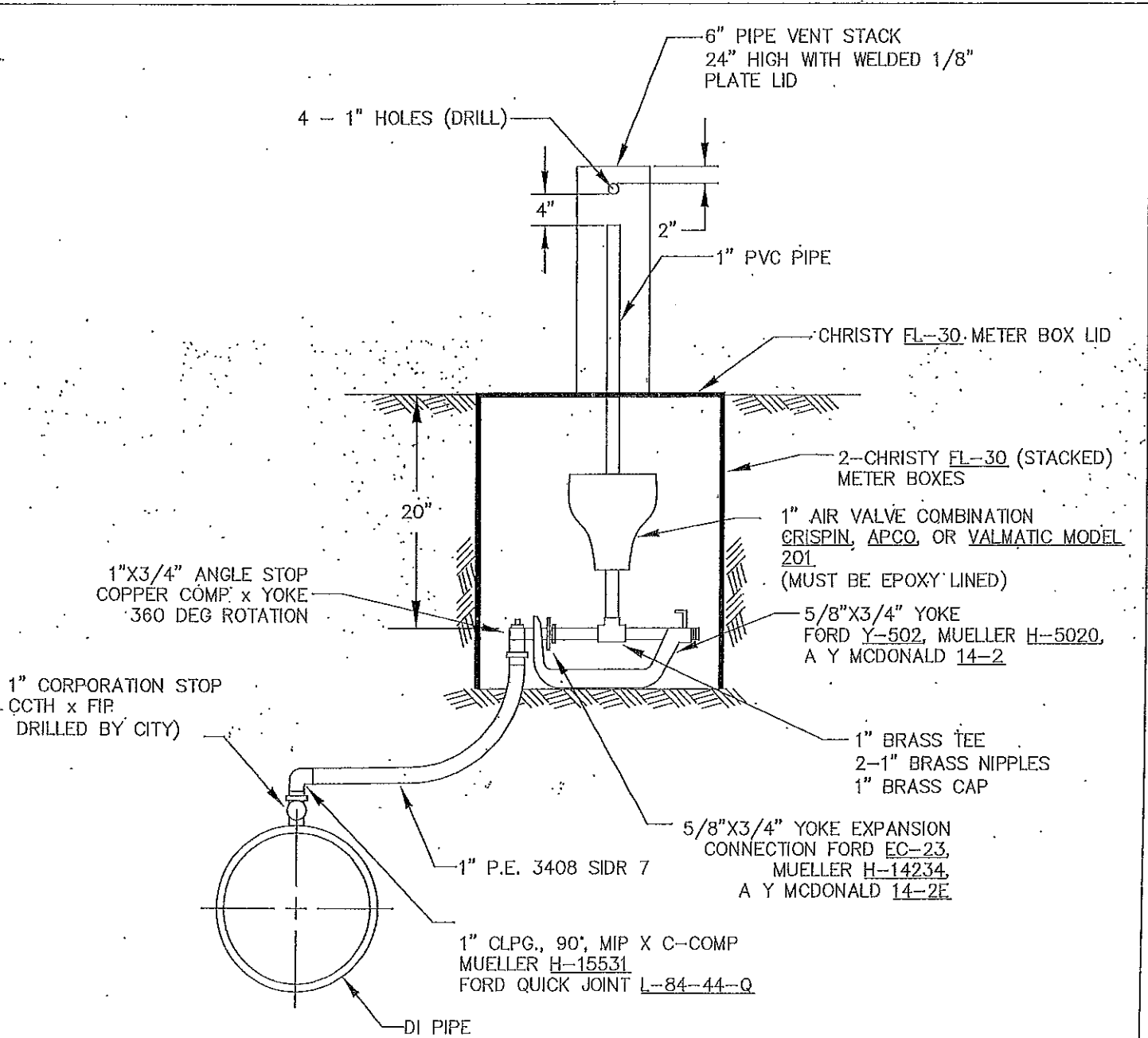
**HYDRANT INSTALLATION
 FOR MAIN 14" AND SMALLER**

SCALE: NONE DWG. NO. 104



1. A MINIMUM OF 5'-0" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.

| NO. | DATE | INITIAL | REVISIONS |
|---|------|--------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| HYDRANT INSTALLATION FOR MAIN 16" AND LARGER | | | |
| SCALE: NONE | | DWG. NO. 105 | |



NOTES:

1. PE 3408 MUST ALWAYS BE INSTALLED WITH GRADE RISING FROM CORP STOP TO ANGLE STOP (NO HIGH POINTS).
2. EXISTING PIPE TO BE TAPPED BY CITY, NEW PIPE TO BE TAPPED BY CONTRACTOR.

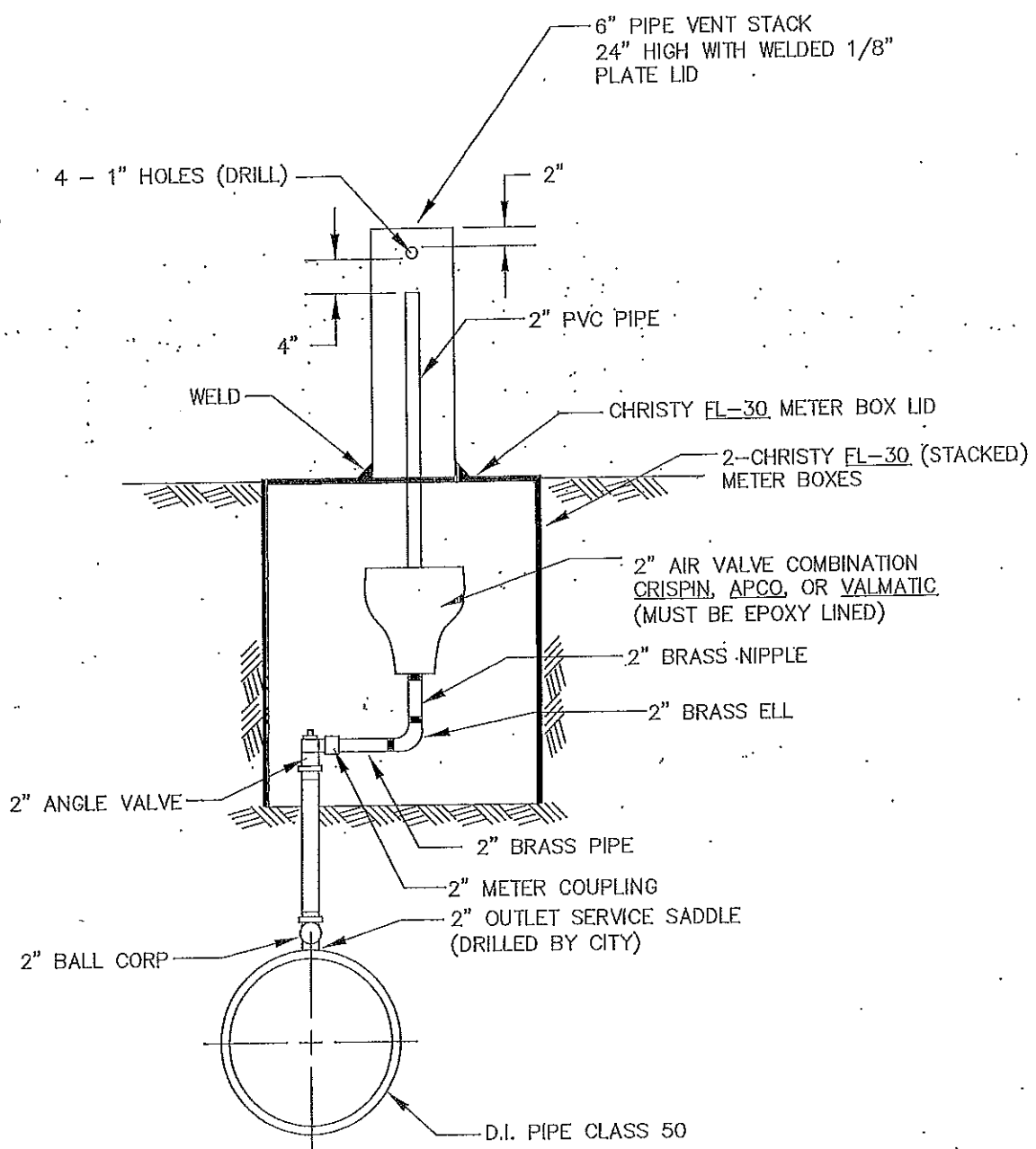
| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 02/08 DRAWN: JAB APPROVED: JLS

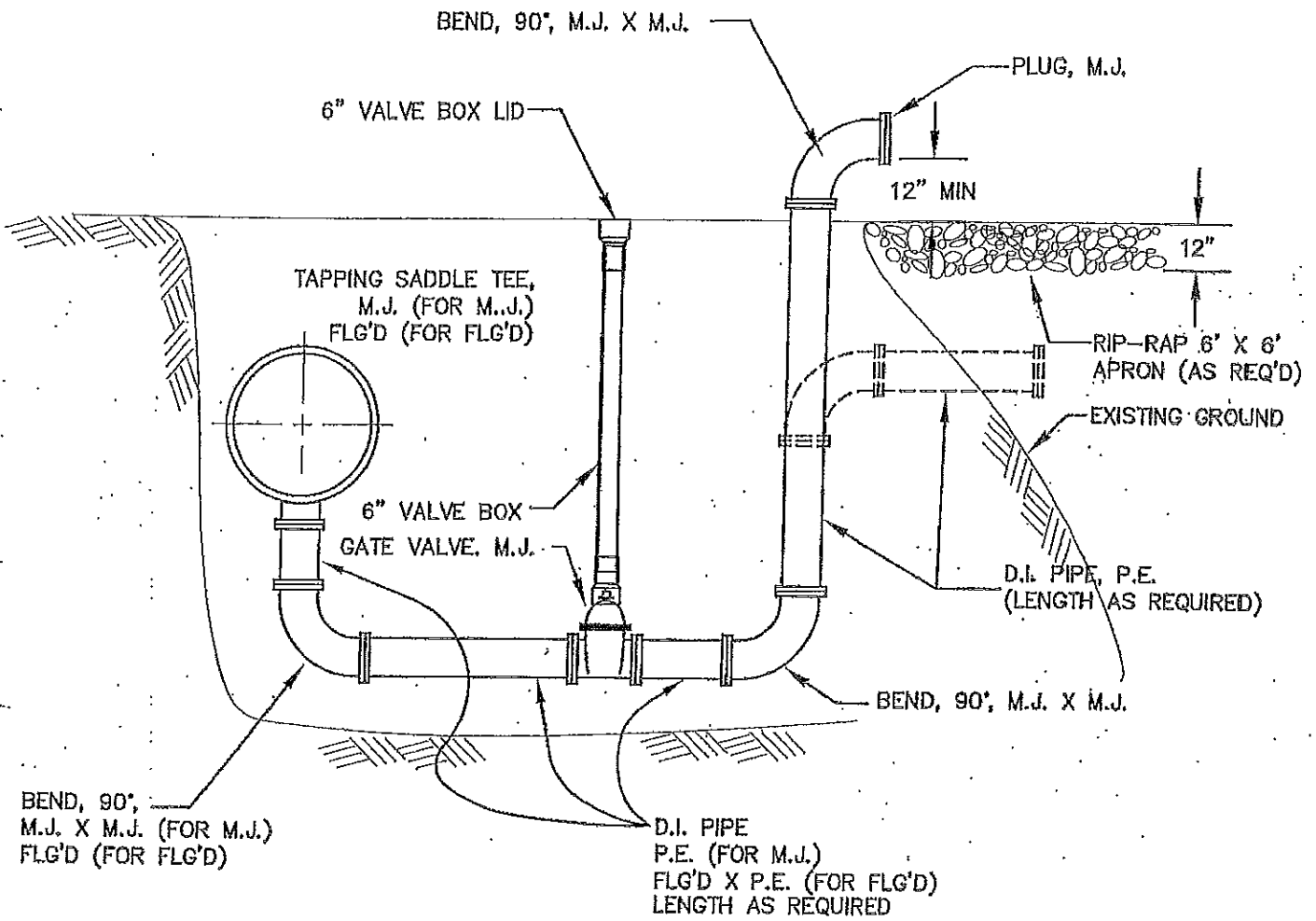
CITY OF TALENT
STANDARD DETAIL

1" AIR VALVE

SCALE: NONE DWG. NO. 106

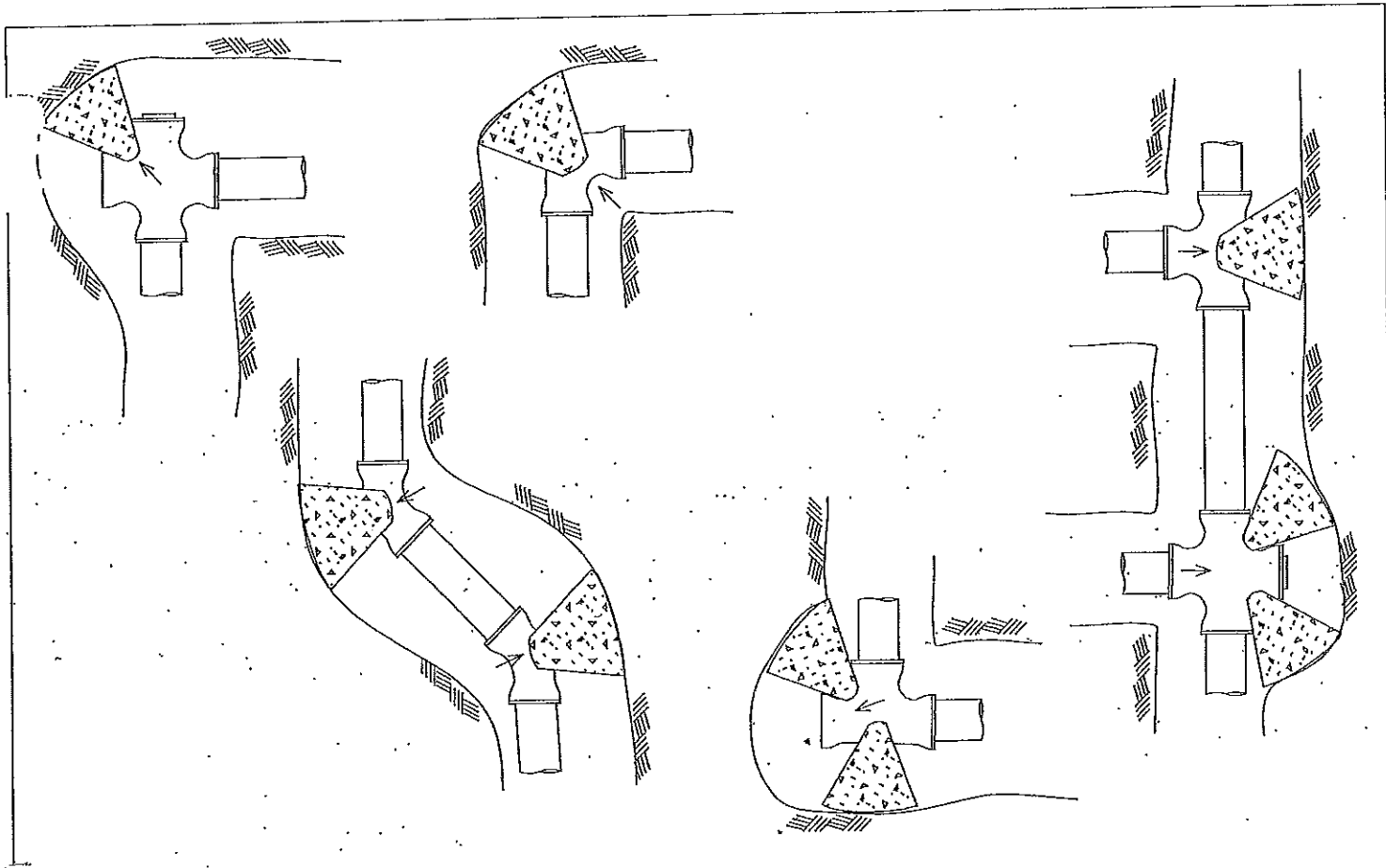


| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|--------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| 2" AIR VALVE | | | |
| SCALE: NONE | | DWG. NO. 107 | |



1. FURNISH AND INSTALL JOINT RESTRAINT GLANDS

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|--------------|-----------------|
| 1 | 6/00 | TJF | CONVERT TO ACAD |
| DATE: 6/98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| MAINLINE BLOWOFF ASSEMBLY | | | |
| SCALE: NONE | | DWG. NO. 108 | |



THRUST BLOCK SIZING TABLE

| PIPE SIZE (INCHES) | <u>90 BEND</u> | | <u>45, 22.5, 11.25 BEND</u> | | <u>VALVES, TEES, DEAD ENDS</u> | |
|-----------------------|-----------------|---------------------|-----------------------------|---------------------|--------------------------------|---------------------|
| | <u># THRUST</u> | <u>BEARING AREA</u> | <u># THRUST</u> | <u>BEARING AREA</u> | <u># THRUST</u> | <u>BEARING AREA</u> |
| 4 | 2700 | 2.0 | 1650 | 1.5 | 1950 | 1.5 |
| 6 | 6000 | 4.0 | 3450 | 2.5 | 4350 | 3.0 |
| 8 | 10800 | 7.5 | 6150 | 4.5 | 7650 | 5.5 |
| 12 | 24000 | 16.0 | 13650 | 9.5 | 16950 | 11.5 |

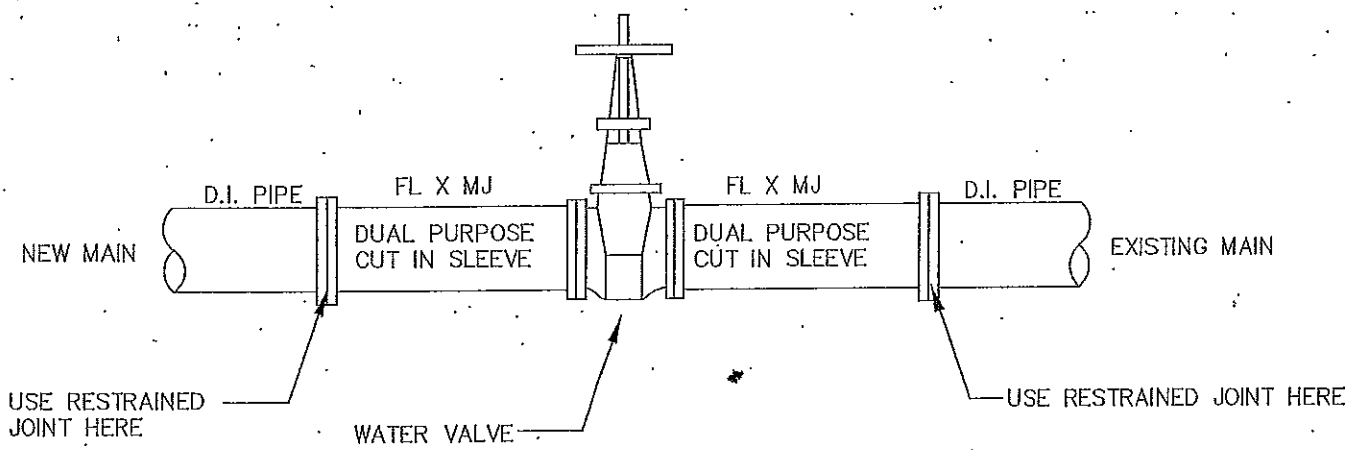
NOTE:

THRUST CALCULATIONS ARE BASED UPON 150 PSI WORKING PRESSURE AND A SOIL BEARING CAPACITY OF 1500 PSF. CAUTION MUST BE USED BY THE DESIGNER TO BE SURE BEARING LOAD CAPACITY OF THE SOIL IS AT LEAST 1500 PSF.

NOTES:

1. THE BEARING SURFACE SHALL BE AT LEAST THE MINIMUM SHOWN ABOVE AND SHALL BE AGAINST UNDISTURBED MATERIAL.
2. THE MINIMUM THICKNESS OF THE BLOCK SHALL BE 12" OR TWICE THE PIPE DIAMETER WHICH EVER IS GREATER.
3. 8 MIL. PLASTIC MUST BE INSTALLED BETWEEN ALL CONCRETE AND PIPE OR FITTINGS.
4. CAUTION SHOULD BE EXERCISED TO INSURE BOLTS ARE NOT COVERED WITH CONCRETE.
5. 3,300 PSI CONCRETE

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| THRUST BLOCKS | | | |
| SCALE: NONE | | | DWG. NO. 109 |



| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

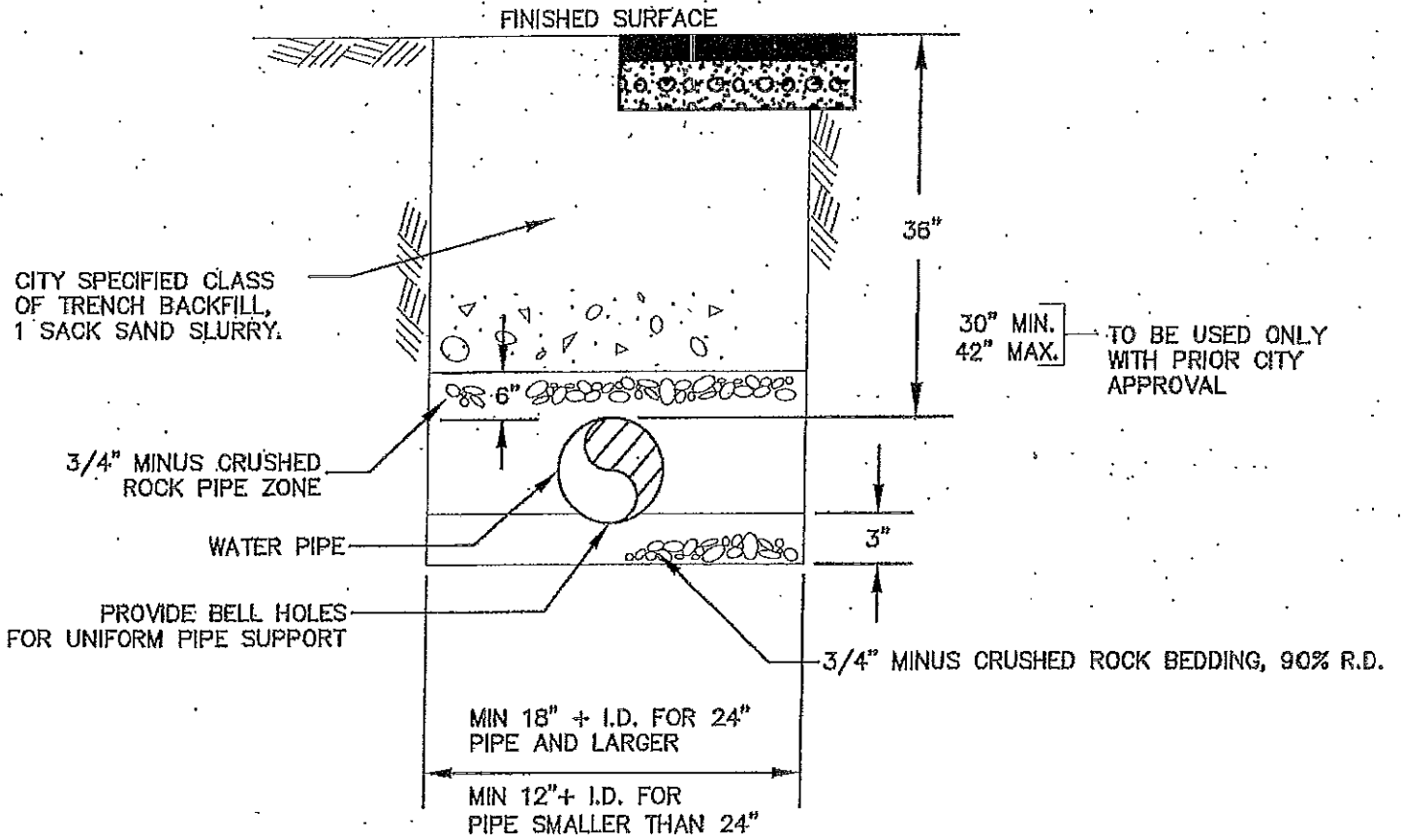
DATE: 02/08 DRAWN: JAB APPROVED: JLS

CITY OF TALENT
STANDARD DETAIL

CUT-IN SLEEVE

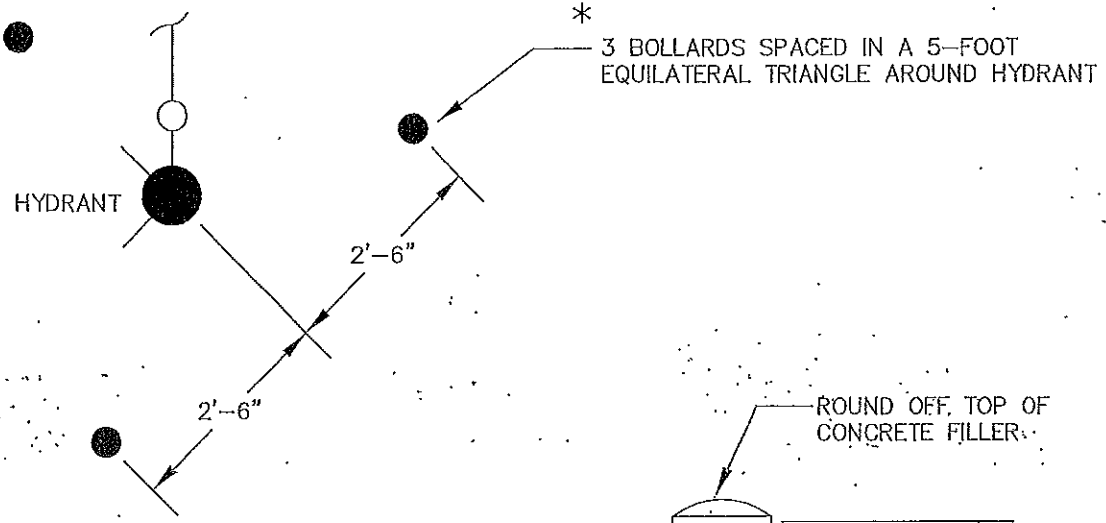
SCALE: NONE

DWG. NO. 110



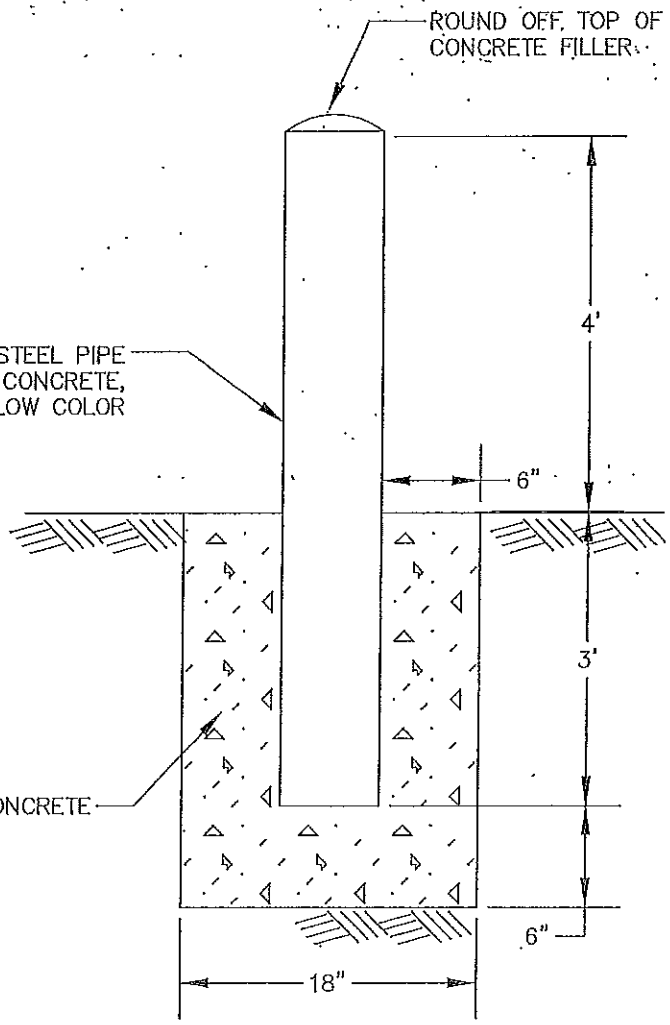
| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|------------|-----------------|
| 1 | 6/00 | TJF | CONVERT TO ACAD |
| DATE: 6/98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| TYPICAL TRENCH DETAIL | | | |

SCALE: NONE | DWG. NO. 111



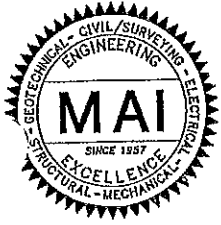
6" Ø STEEL PIPE
 FILLED WITH CONCRETE,
 PAINT CHROME-YELLOW COLOR

SET IN CONCRETE



* IF HYDRANT IS LOCATED IN LANDSCAPED, CURBED PLANTER, WITH 5' FROM FIRE HYDRANT TO FACE OF CURB IN EACH DIRECTION, BOLLARDS WILL NOT BE REQUIRED.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 02/08 | | DRAWN: JAB | APPROVED: JLS |
| CITY OF TALENT STANDARD DETAIL | | | |
| BOLLARD DETAIL | | | |
| SCALE: NONE | | | DWG. NO. 112 |



Marquess & Associates, Inc. CONSULTING ENGINEERS

1120 EAST JACKSON

P.O. BOX 490

MEDFORD, OREGON 97501

TELEPHONE: (541) 772-7115

FAX: (541) 779-4079

June 17, 1998

Mr. Tim Dedrick
Public Works Director
City of Talent
P.O. Box 445
Talent, Oregon 97540

RE: Public Works Standard Details
MAI Job No. 32-110

Dear Tim:

Enclosed is a complete set of replacement pages for your Standard Details. We made the changes you requested.

Sincerely,

MARQUESS & ASSOCIATES, INC.

Charles A. Strom, P.E.

CAS/pc

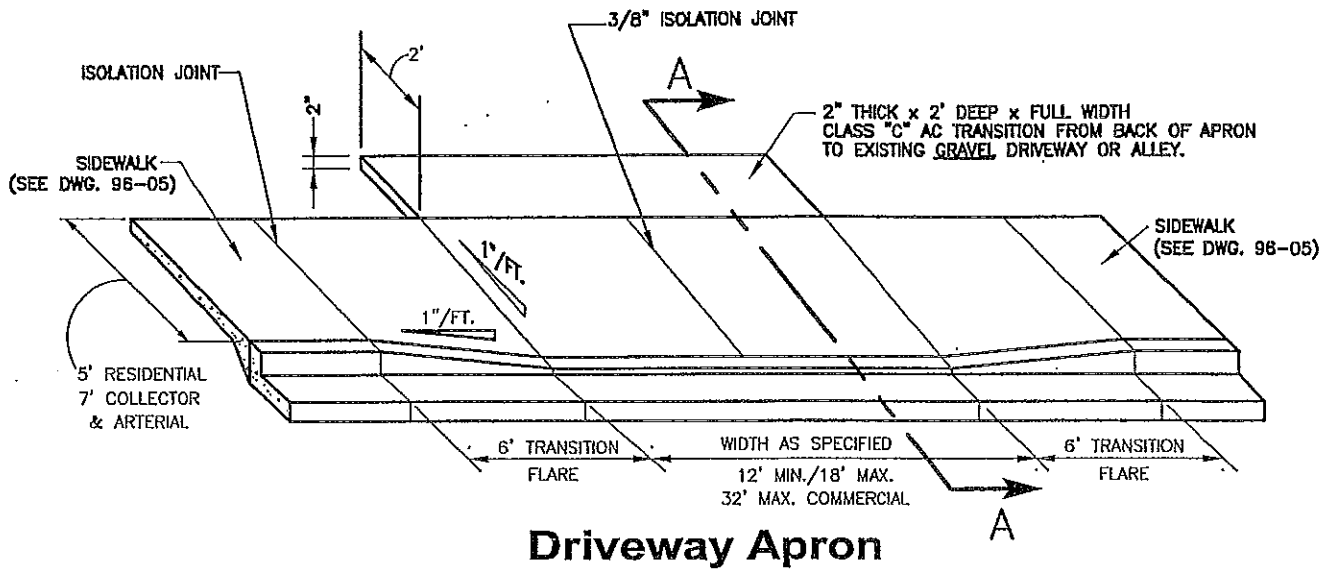
Enclosure

CITY OF TALENT STANDARD DETAIL INDEX

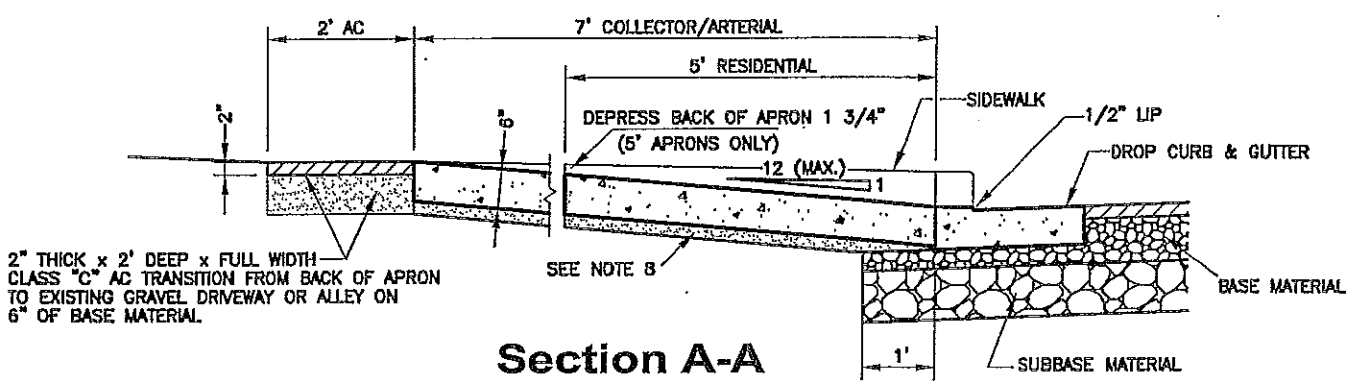
| <u>Drawing No.</u> | <u>Description</u> | <u>Drawing Name</u> (S\CDET\TALENT) |
|--------------------|--|--|
| 96-01 | Driveway Apron Adjacent to Curb | DRIVEWAY |
| 96-02 | Driveway Apron Adjacent to Parking Strip | DWY-STRP |
| 96-03 | Typical Wheelchair Ramp | WCRAMP |
| 96-04 | Curb Backfill Details | CURBACK |
| 96-05 | Sidewalk Details | SIDEWALK |
| 96-06 | Curb & Gutter Detail | CURBGUTR |
| 96-10 | Storm Drain Manhole Detail | MANHOLE |
| 96-11 | Manhole Adjustment Detail | MHADJUST |
| 96-20 | Concrete Curb Inlet | INLET |
| 96-21 | Inlet Gallery | GALLERY |
| 96-22 | Area Catch Basin | AREABASN |
| 96-23 | Standard Valley Gutter | VGUTTER |
| 96-30 | Trench Details | TRENCH |
| 96-31 | Trench in Moratorium Street | MORATORM |
| 96-50 | Monument Detail | MONUMENT |
| 96-51 | Monument Case Detail, New Pavement | MONNEW |
| 96-52 | Monument Case Detail, Existing Pavement | MONEXIST |

CITY OF TALENT STANDARD DETAIL INDEX
WATER LINE DETAILS

| <u>Drawing No.</u> | <u>Description</u> |
|--------------------|---|
| 100 | Meter Installation and Location |
| 101 | 1" Service With 5/8" x 3/4" Meter Setting |
| 102 | Pressure Test, Chlorination, And Disinfection Tree With End Drain |
| 103 | Full Size Flush Point |
| 104 | Hydrant Installation For Main, 14 Inch and Smaller |
| 105 | Hydrant Installation For Main, 16-Inch and Larger |
| 106 | 1-Inch Air Valve |
| 107 | 2-Inch Air Valve |
| 108 | Blowoff Assembly |
| 109 | Thrust Blocks |
| 110 | Cut-In Sleeve |
| 111 | Typical Trench Detail |
| 112 | Bollard Detail |
| 113 | Support Pier Detail |
| N/A | Easement form for Individuals |
| N/A | Easement form for Corporation |



Driveway Apron



Section A-A

Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 12" WITH #4 REBAR 6" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRIVEWAY WIDTH 12 FEET.
4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRIVEWAY ARE POURED AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10') AND IN BETWEEN (5').
7. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (ODOT TM-106).
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.

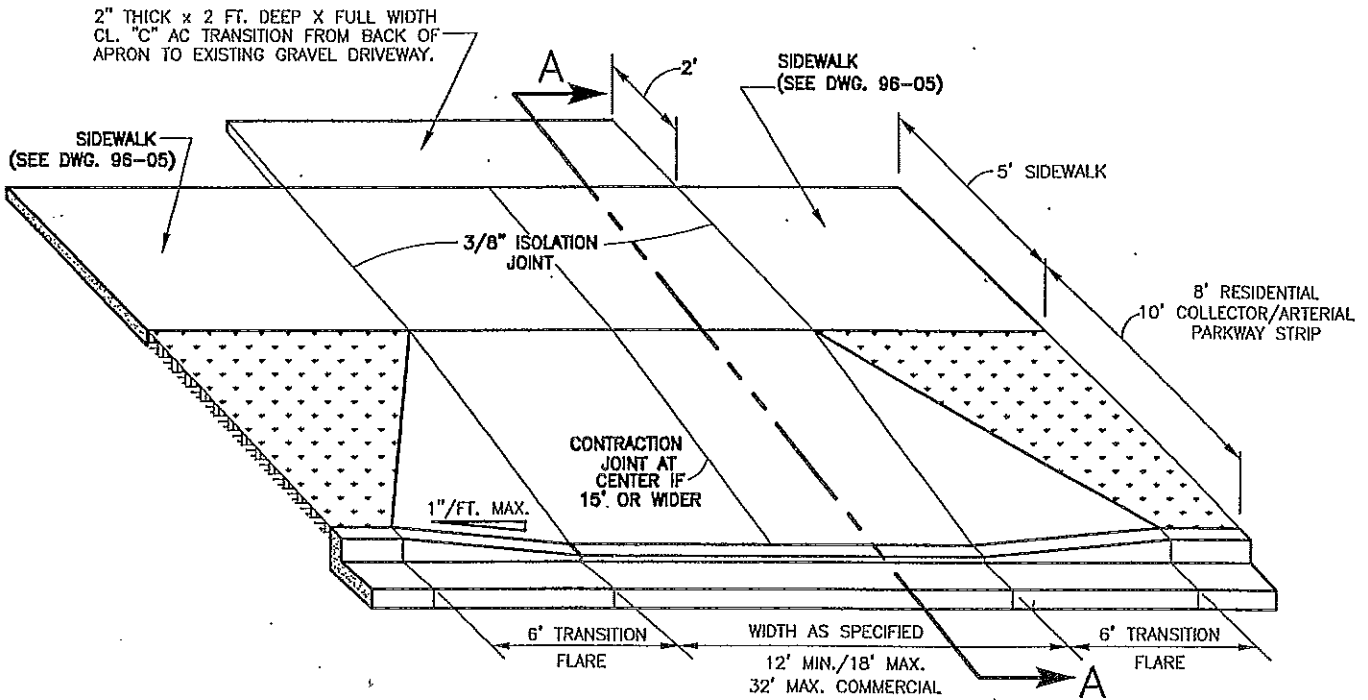
| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |
| | | | |

DATE: 6-17-98 DRAWN: TJF APPROVED: TAD

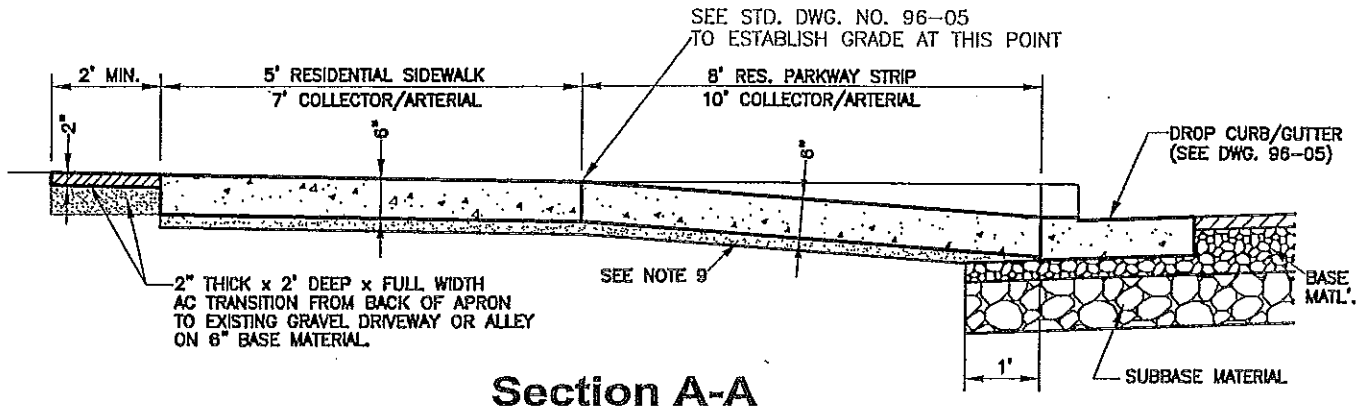
**CITY OF TALENT
STANDARD DETAIL**

**DRIVEWAY APRON
ADJACENT TO CURB**

SCALE: NONE DWG. NO. 96-01



Driveway/Alley Apron With Parking Strip



Section A-A

Notes:

1. RESIDENTIAL DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
2. CONCRETE FOR COMMERCIAL USE AND ALLEY APPROACHES SHALL HAVE A NOMINAL THICKNESS OF 12" WITH #4 REBAR 6" O.C. BOTH WAYS. (2" CLEAR)
3. MINIMUM DRIVEWAY WIDTH 12 FEET.
4. IF DRIVEWAY IS LESS THAN 15' WIDE DO NOT PLACE ISOLATION JOINT AT CENTER.
5. IF APRON AND DRIVEWAY ARE POURED AT THE SAME TIME, PLACE ISOLATION JOINT WHERE THEY MEET.
6. WHERE SIDEWALK IS ADJACENT TO CURB, CONSTRUCT A CONTRACTION JOINT WITH CURB JOINT (10') AND IN BETWEEN (5').
7. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
8. GRANULAR MATERIAL UNDER DRIVEWAYS AND SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL BE CRUSHED ROCK, MINIMUM 3", COMPACTED TO 95% IN DRIVEWAYS AND 90% IN SIDEWALKS (ODOT TM-106)
9. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
10. ALL WORK, MATERIALS & CURING SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S, AS AMENDED BY THE CITY.

| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

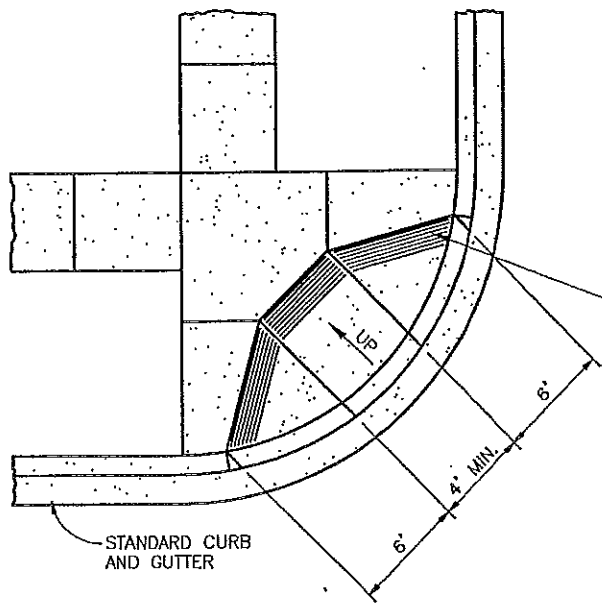
DATE: 6-17-98 DRAWN: TJF APPROVED: TAD

CITY OF TALENT
STANDARD DETAIL

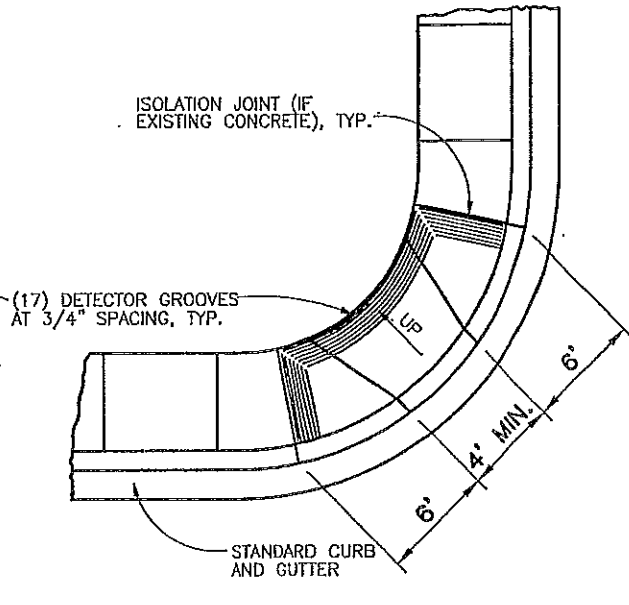
**DRIVEWAY APRON
ADJACENT TO
PARKING STRIP**

SCALE: NONE

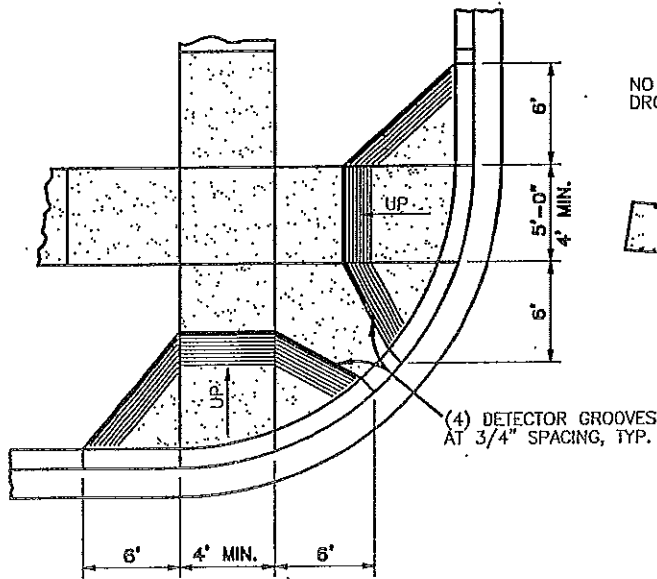
DWG. NO. 96-02



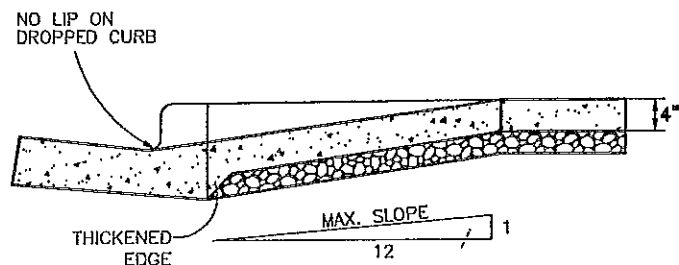
Center Ramp For Property Line Sidewalk
(RESIDENTIAL AREAS)



Center Ramp For Curb Line Sidewalk
(RESIDENTIAL AREAS)



End Ramps For Property Line Sidewalks
(COMMERCIAL AREAS OR ARTERIAL STREETS)



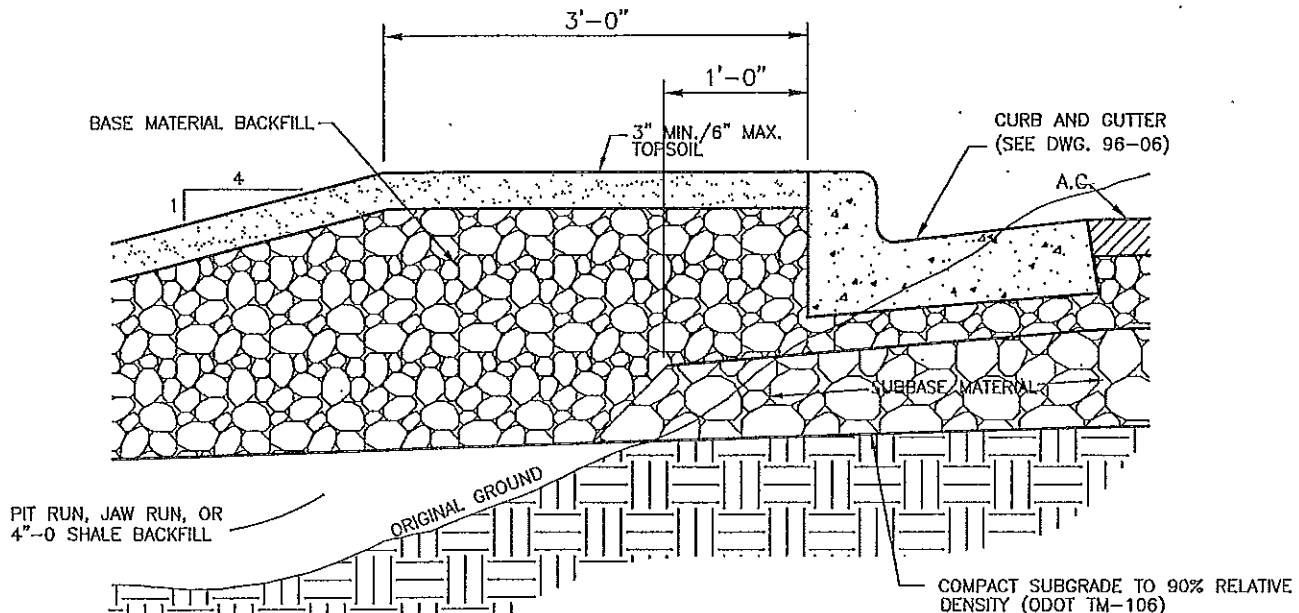
Section Through Ramp - All Views

NOTES

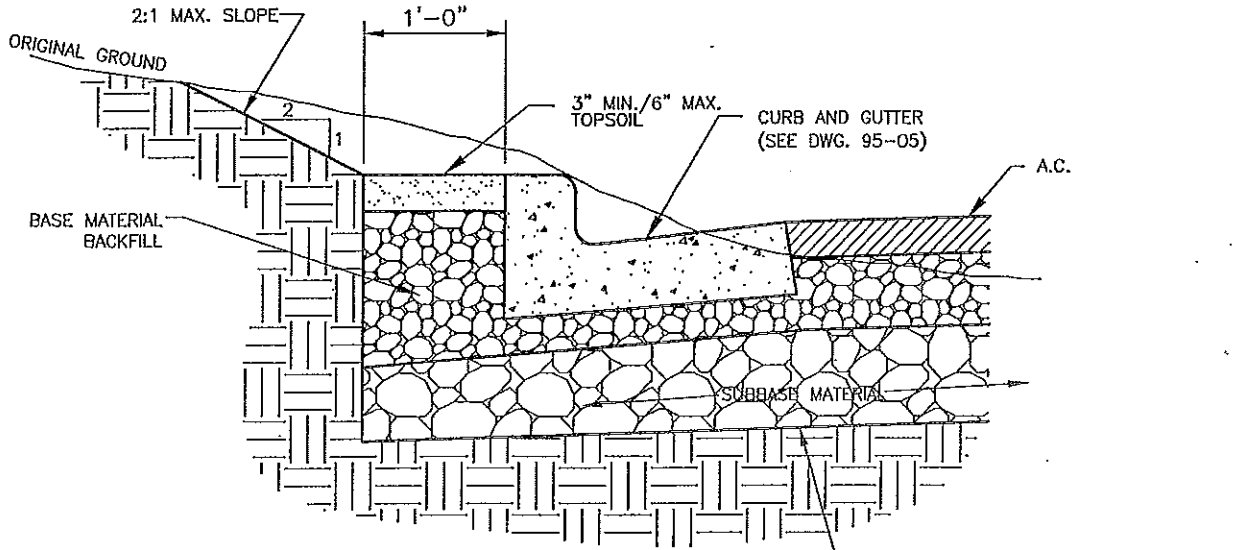
- 1) THE "AMERICANS WITH DISABILITIES ACT" REQUIRES THAT ACCESS RAMPS TO SIDEWALKS HAVE NO SLOPES GREATER THAN 12 HORIZONTAL TO 1 VERTICAL.
- 2) BASE ROCK SHALL BE MIN. OF 3" COMPACTED CRUSHED ROCK, TO 90% RELATIVE DENSITY (ODOT TM-106).
- 3) P.C.C. SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
- 4) IN CERTAIN AREAS THE RAMP MAY BE LOCATED TO MATCH CROSSWALKS OR TWO RAMPS MAY BE REQUIRED.
- 5) IN AREAS OF EXISTING CURB AND GUTTER, REMOVE AND REPLACE BOTH CURB AND GUTTER.

WCRAMP.DWG

| NO. | DATE | INITIAL | REVISIONS |
|------------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| TYPICAL WHEELCHAIR RAMP | | | |
| SCALE: NONE | | DWG. NO. 96-03 | |



Fill Section

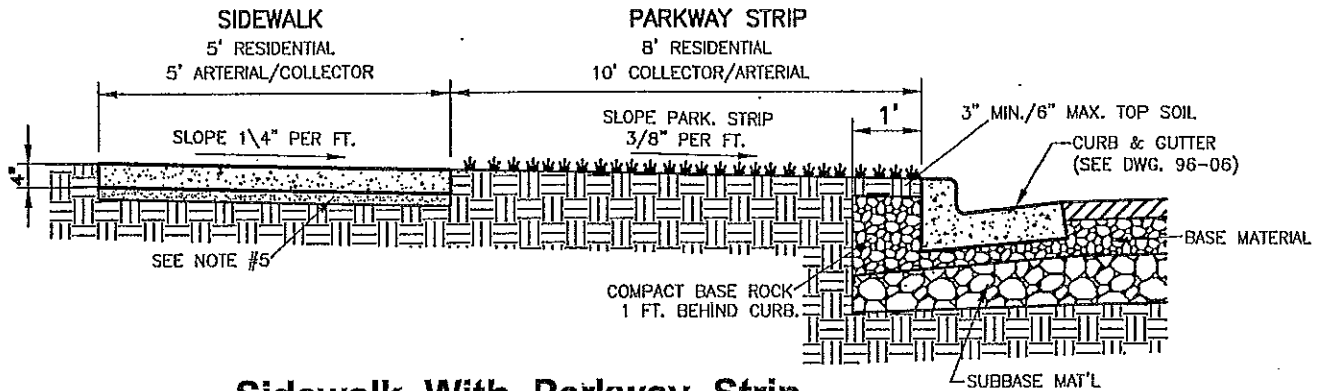


Cut Section

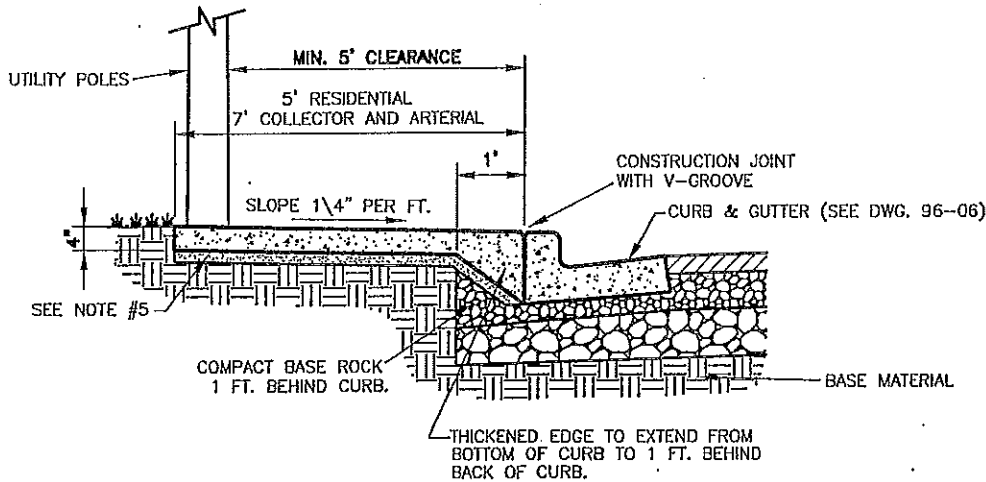
NOTES:

- 1) COMPACT ALL BACKFILL BEHIND CURBS TO 90% MINIMUM.

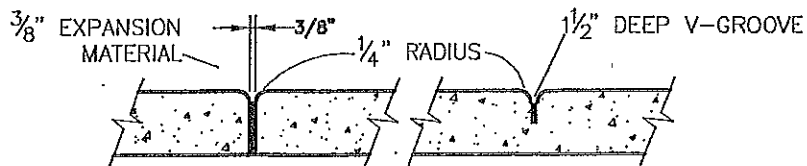
| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| CURB BACKFILL DETAILS | | | |
| SCALE: NONE | | DWG. NO. 96-04 | |



Sidewalk With Parkway Strip



Sidewalk Adjacent To Curb



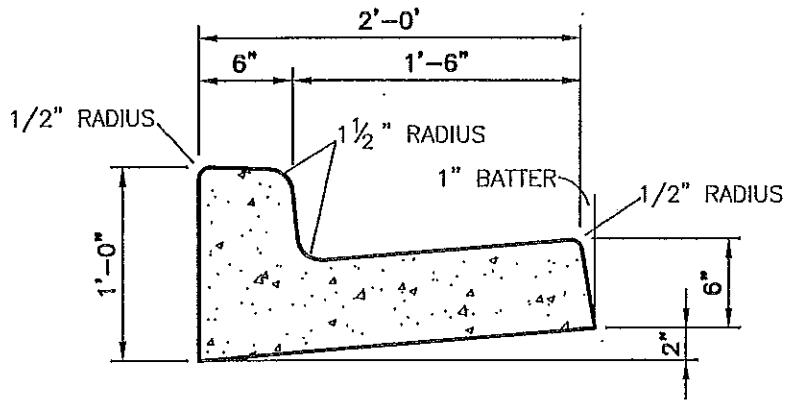
SIDEWALK ISOLATION JOINT
PLACE EVERY 50'

SIDEWALK CONTRACTION JOINT
PLACE EVERY 5'

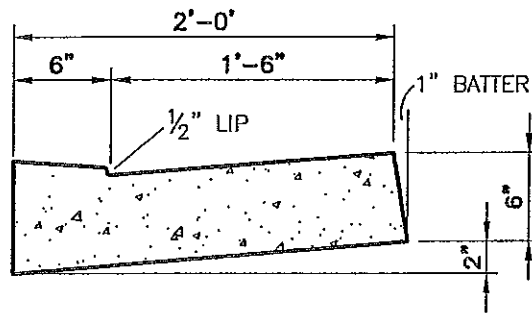
Notes:

1. SIDEWALKS SHALL HAVE A NOMINAL THICKNESS OF 4".
2. SIDEWALK SECTIONS THROUGH DRIVEWAYS SHALL HAVE A NOMINAL THICKNESS OF 6".
3. WHERE SIDEWALK IS ADJACENT TO CURB, PLACE CONSTRUCTION JOINT IN LINE WITH CURB JOINT (10') AND IN BETWEEN (5').
4. ALL MIX SHALL BE VIBRATED OR TAMPED, AS DIRECTED, FOR COMPACTION.
5. GRANULAR MATERIAL UNDER SIDEWALKS & DRIVEWAY SHALL BE CRUSHED ROCK, COMPACTED TO 95% IN DRIVEWAY AREAS AND 90% IN SIDEWALKS (ODOT TM-106).
 - a. 2" MIN. THICKNESS UNDER SIDEWALKS.
 - b. 3" MIN. THICKNESS UNDER DRIVEWAYS.
6. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
7. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPECS. AS AMENDED BY THE CITY.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| SIDEWALK DETAILS | | | |
| SCALE: NONE | | DWG. NO. 96-05 | |



STANDARD CURB AND GUTTER

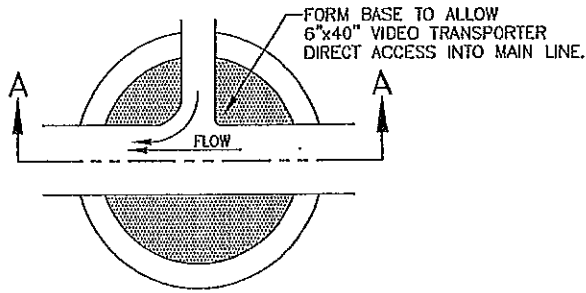


**DROP CURB AND GUTTER
AT DRIVEWAY APRONS**

Notes:

1. ALL CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
2. ALL WORK & MATERIALS SHALL CONFORM TO 1990 OREGON APWA STANDARD SPEC'S. AS AMENDED BY THE CITY.
3. INSTALL CONTRACTION JOINTS EVERY 10', AND 3/8" ISOLATION JOINTS EVERY 100', AND AT END OF CURB RETURNS

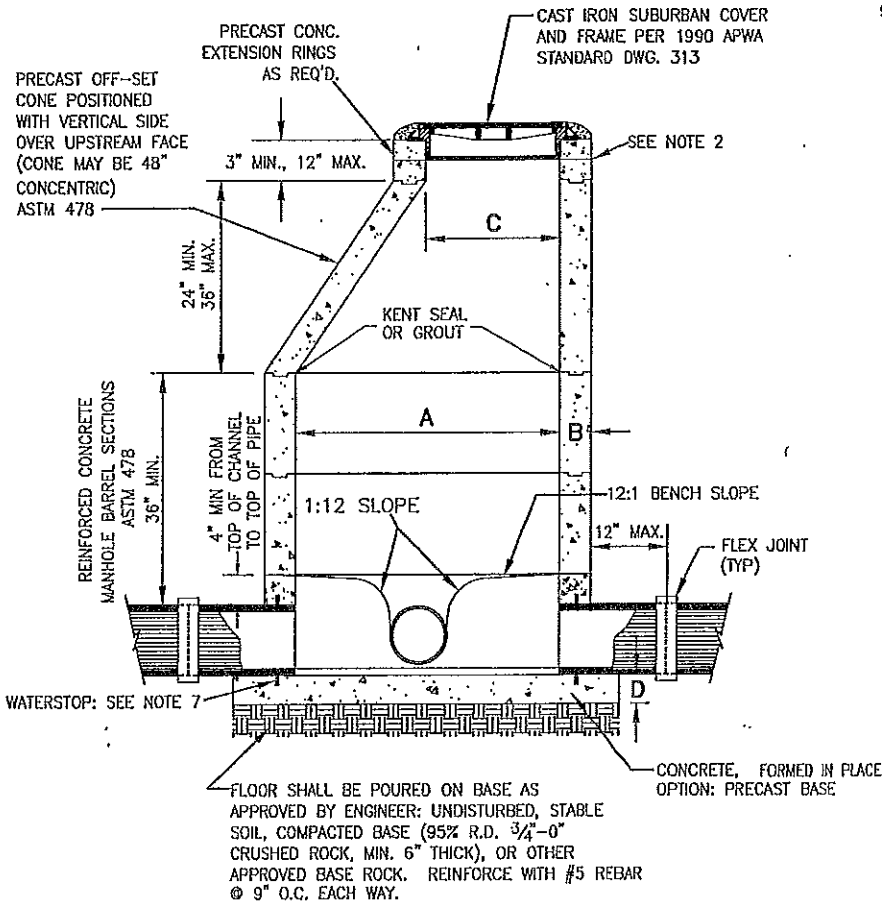
| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| CURB & GUTTER DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-06 | |



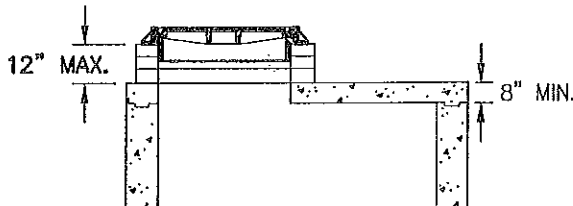
Plan View of Base

Notes:

1. CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO.
2. FRAME AND RISER RINGS SHALL BE SEALED WITH GROUT, AND KENT SEAL, RESPECTIVELY.
3. FORM STRAIGHT "U" CHANNEL WITH 1:12 SLOPE MORTAR SIDE. FULL CHANNEL PIPE WITH TOP HALF REMOVED IS ACCEPTABLE.
4. MAKE ALIGNMENT CHANGES WITH UNIFORM "U" CHANNEL, WITH SMOOTH CURVED PATH.
5. MAKE CHANGES IN CHANNEL SIZE WITH A SMOOTH, TAPERING TRANSITION.
6. FINISH PIPE ENDS FLUSH WITH INSIDE WALLS, GROUTED.
7. PIPE CONNECTION SHALL CONFORM WITH APWA OREGON CHAPTER, 1990 STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION SECTION 306.3.01B
8. STANDARD MANHOLE COVER MARKED "D" FOR DRAINAGE.
9. MANHOLE SHALL CONFORM WITH APWA OREGON CHAPTER 1990 STANDARD SPEC'S FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED BY THE CITY.

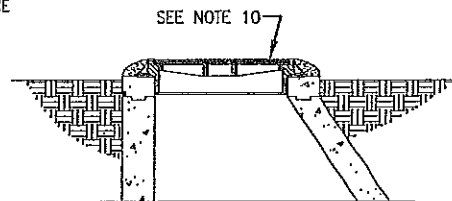


Section A-A



Alternate Manhole Reinforced Flat-Top

| PIPE SIZE ϕ | A | B | C | D |
|------------------|---------------------------|----|-----|----|
| 24" OR LESS | 48" | 6" | 24" | 6" |
| 27" TO 42" | 72" | 6" | 24" | 9" |
| 48" & LARGER | SPECIAL MANHOLE STRUCTURE | | | |



Outside Of Travelled Way Manhole Adjustment

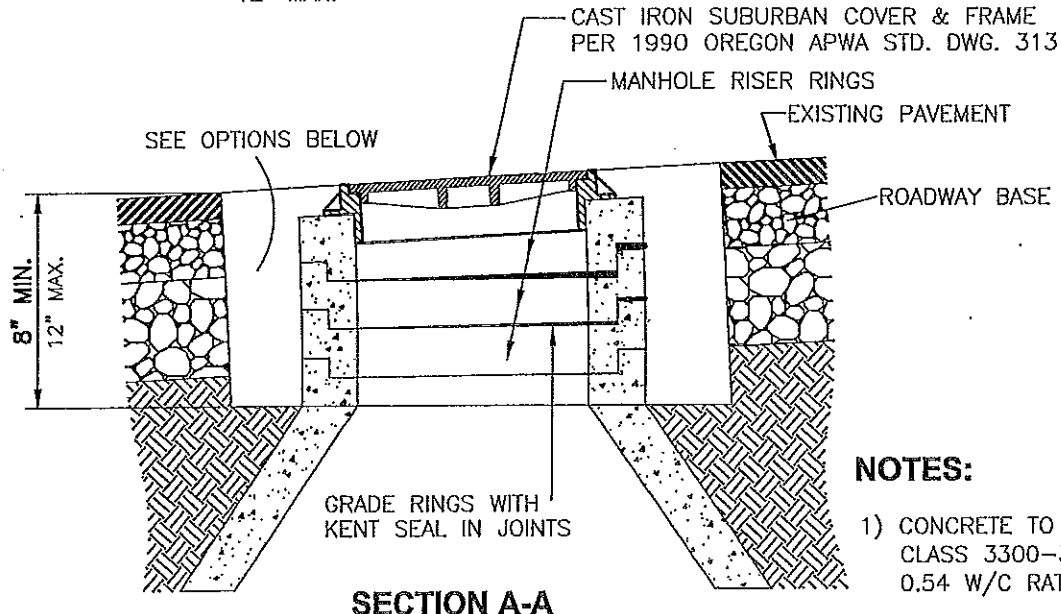
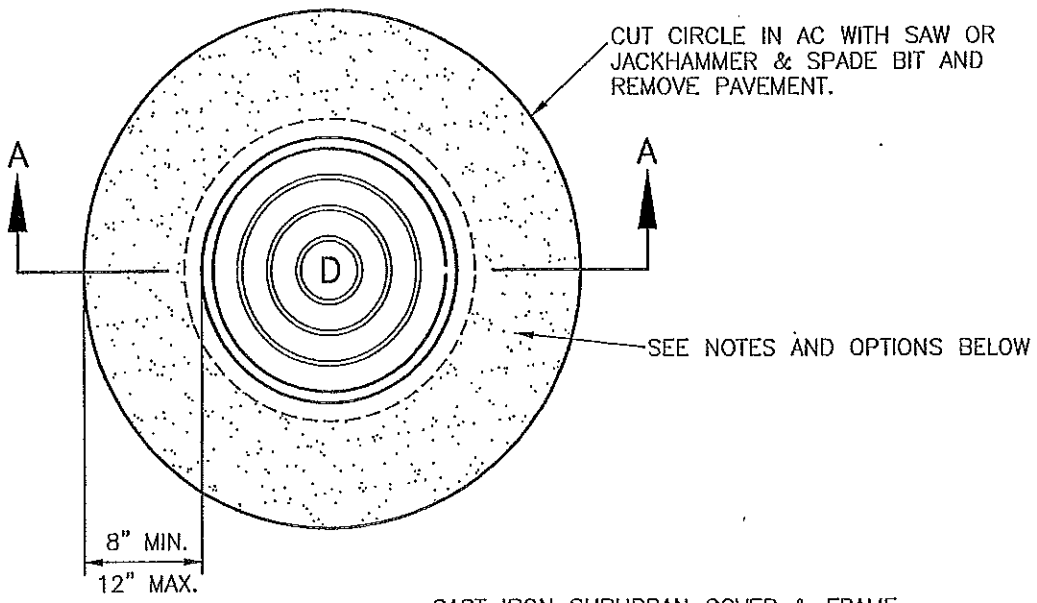
| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 6-17-98 DRAWN: TJF APPROVED: TAD

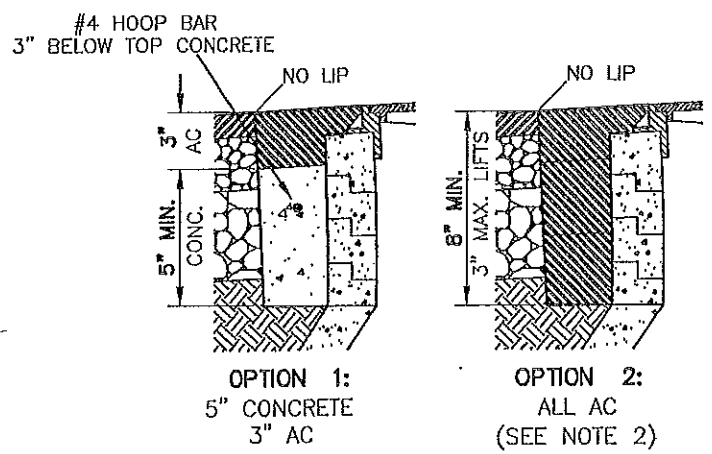
**CITY OF TALENT
STANDARD DETAIL**

**STORM DRAIN
MANHOLE DETAIL**

SCALE: NONE DWG. NO. 96-10

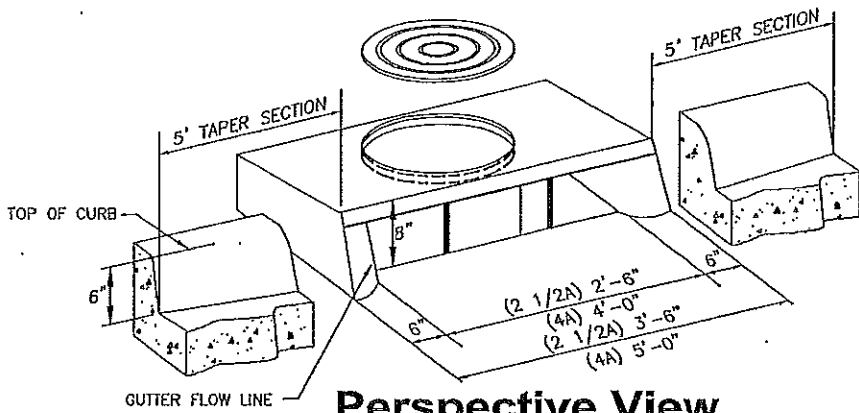


- NOTES:**
- 1) CONCRETE TO BE CLASS 3300-3/4" 0.54 W/C RATIO
 - 2) AC TO BE CLASS "C" IN 3" MAX. LIFTS. ALL BUT TOP LIFT SHALL BE COMPACTED WITH PNEUMATIC TAMPER WITH 6" MAX. HEAD DIAMETER.

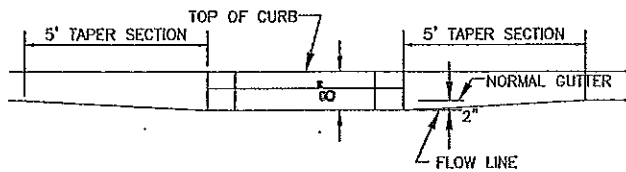


MANHOLE COLLAR OPTIONS

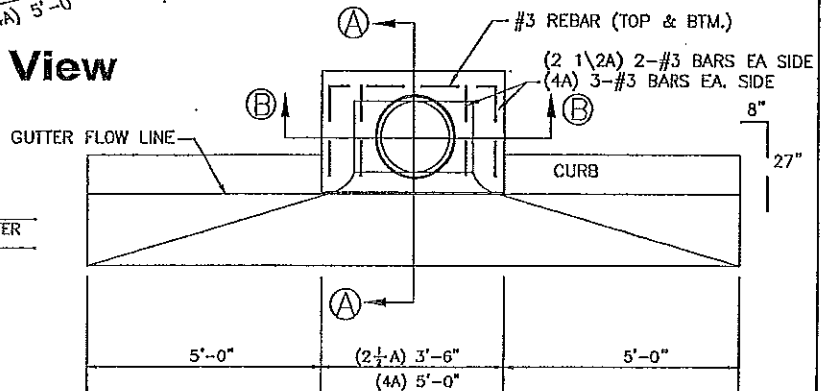
| NO. | DATE | INITIAL | REVISIONS |
|--------------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| MANHOLE ADJUSTMENT DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-11 | |



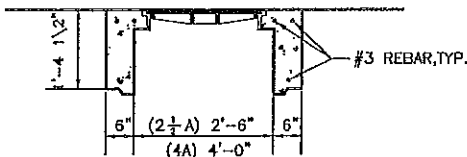
Perspective View



Elevation



Plan View

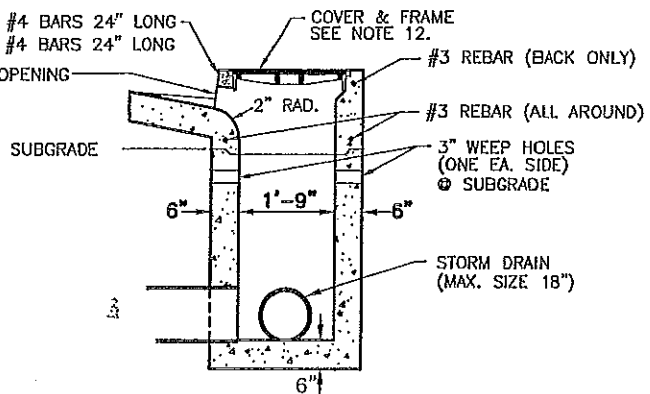


Section B-B

ANGLE NOSING $3\frac{1}{2}'' \times 3\frac{1}{2}'' \times \frac{1}{4}''$
ANCHORED WITH:

(2 1/2A) 2-HORIZ. #4 BARS 24" LONG
(4A) 4-HORIZ. #4 BARS 24" LONG

MAINTAIN $4\frac{1}{2}''$ OPENING



Section A-A

Notes

- 1) SURFACE CROSS-SLOPE FOR NEW CONSTRUCTION SHALL BE $\frac{1}{4}''$ RISE PER FOOT FROM TOP OF CURB TO BACK OF SIDEWALK.
- 2) EXISTING CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST CONTRACTION JOINT OR COLD JOINT WHEN JOINT IS WITHIN 4 FEET OF THE TRANSITION POINT.
- 3) ALL CONCRETE SHALL BE SAWCUT AND A SMOOTH, UNIFORM JOINT PROVIDED.
- 4) CURING COMPOUND SHALL BE APPLIED IMMEDIATELY AFTER SURFACE IS FINISHED; WHITE PIGMENT RECOMMENDED, CLEAR PIGMENT ACCEPTABLE.
- 5) FLOOR SHALL BE POURED ON: UNDISTURBED, STABLE SOIL; COMPACTED BASE (95% R.D. $3/4''-0$ CRUSHED ROCK, 6" MIN. THICK).
- 6) SET SECTION JOINTS IN 1:2 MORTAR AND MORTAR JOINT SEALANT ST-8, 1" WIDE. SEALANT SHALL MEET FED. SPECS. SS-5-00201 (CSA-FSS).
- 7) ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVE VOIDS.
- 8) PIPE(S) SHALL BE FLUSH WITH INSIDE WALL.
- 9) ALL CONCRETE SHALL BE CLASS 3300 - $3/4''$ 0.54 W/C RATIO.
- 10) SURFACE HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH ADJACENT SIDEWALK.
- 11) ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- 12) COVER SHALL BE INLAND FOUNDRY CO. INC. 706 MANHOLE RING AND COVER (OR EQUAL), SUITABLE FOR HEAVY TRAFFIC LOADING.

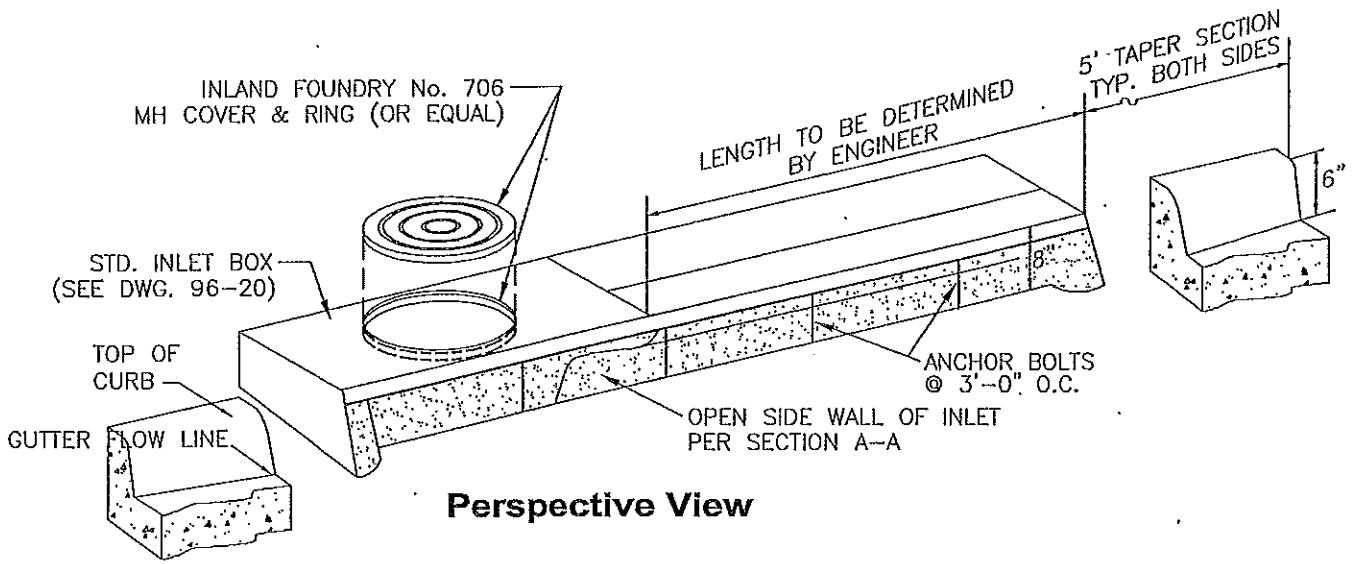
| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 6-17-98 DRAWN: TJF APPROVED: TAD

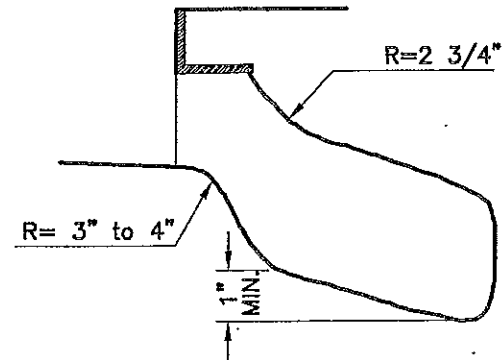
CITY OF TALENT
STANDARD DETAIL

**CONCRETE
CURB INLET**

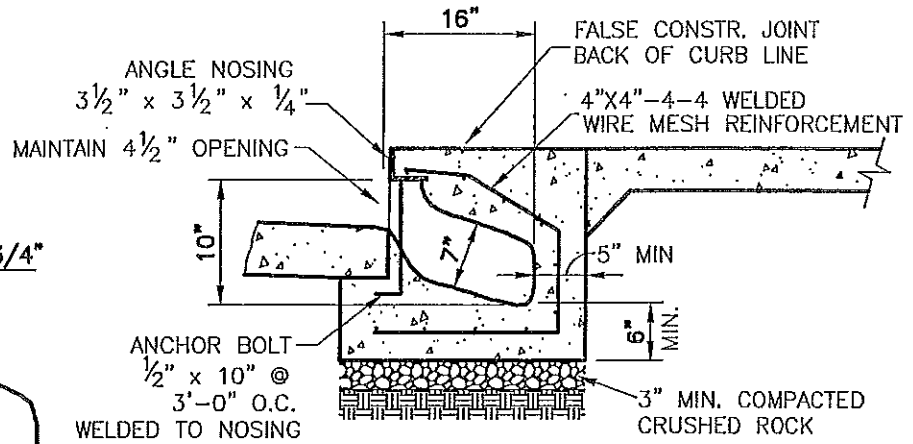
SCALE: NONE DWG. NO. 96-20



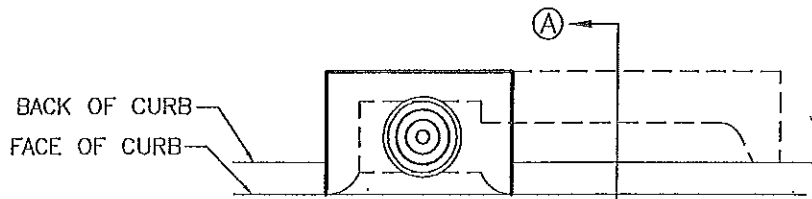
Perspective View



Gallery Detail



Section A-A

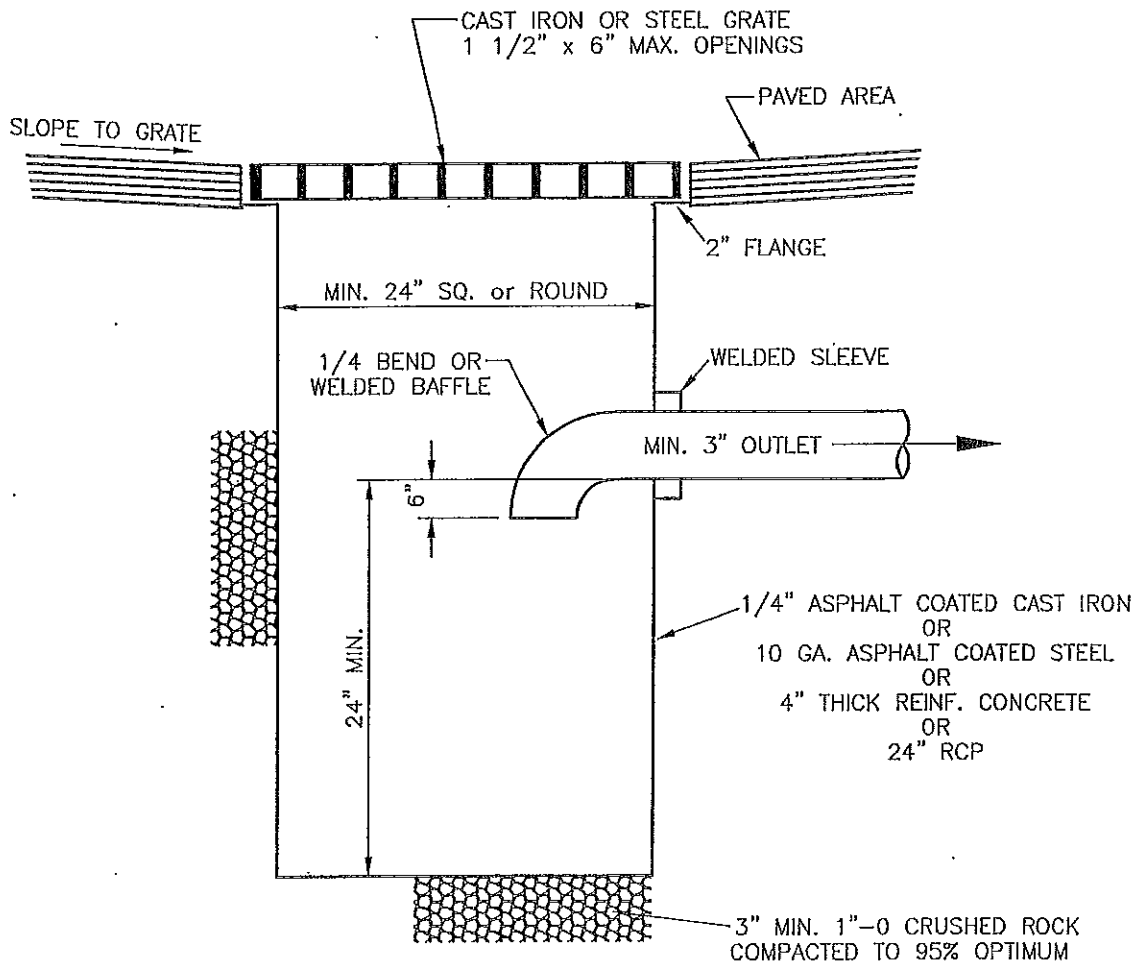


Plan View

Notes

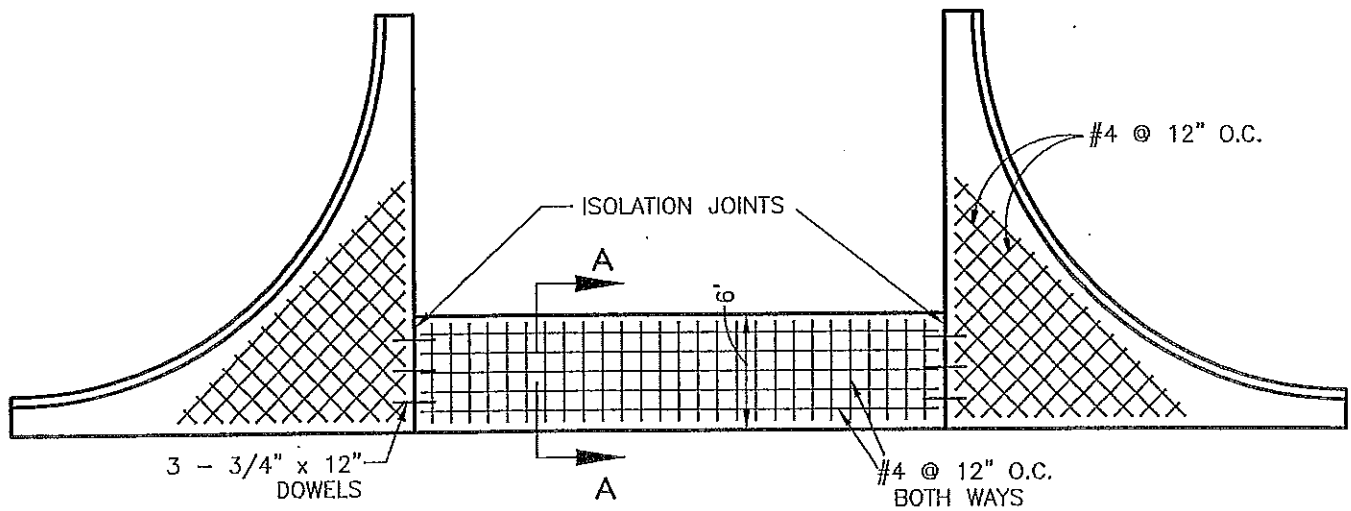
1. SURFACE CROSS-SLOPE FOR NEW CONSTRUCTION SHALL BE 1/4" RISE PER FOOT FROM TOP OF CURB TO BACK OF SIDEWALK.
2. ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVE VOIDS.
3. CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
4. SURFACE HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH EXISTING ADJACENT SIDEWALK.
5. ALL METAL PARTS (EXCEPT REBAR) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

| NO. | DATE | INITIAL | REVISIONS |
|---|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| INLET GALLERY | | | |
| SCALE: NONE | | DWG. NO. 96-21 | |

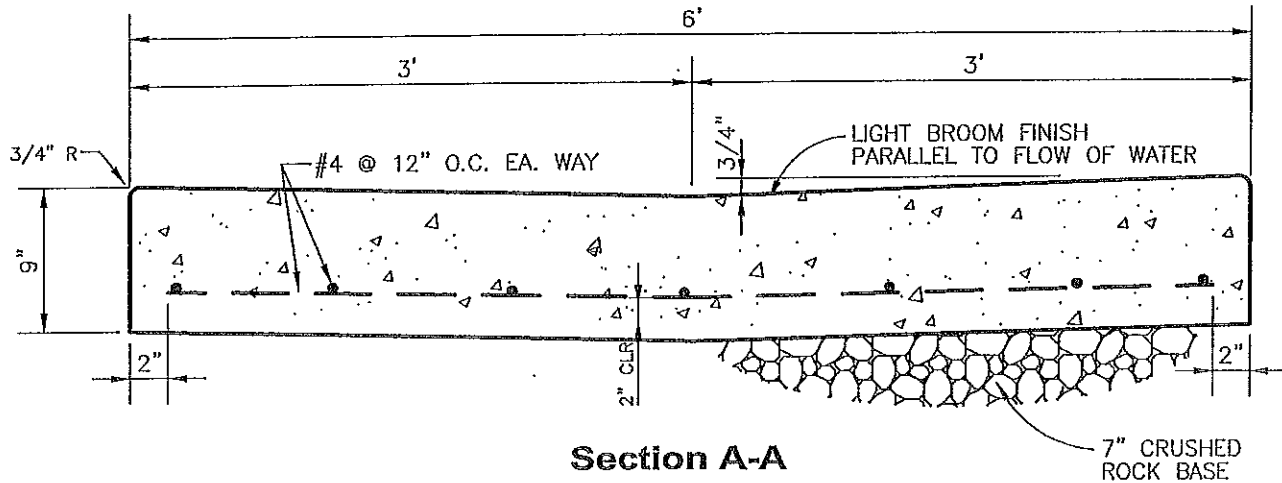


AREA CATCH BASIN DETAIL

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: T.J.F. | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| AREA CATCH BASIN | | | |
| SCALE: NONE | | DWG. NO. 96-22 | |



Plan View

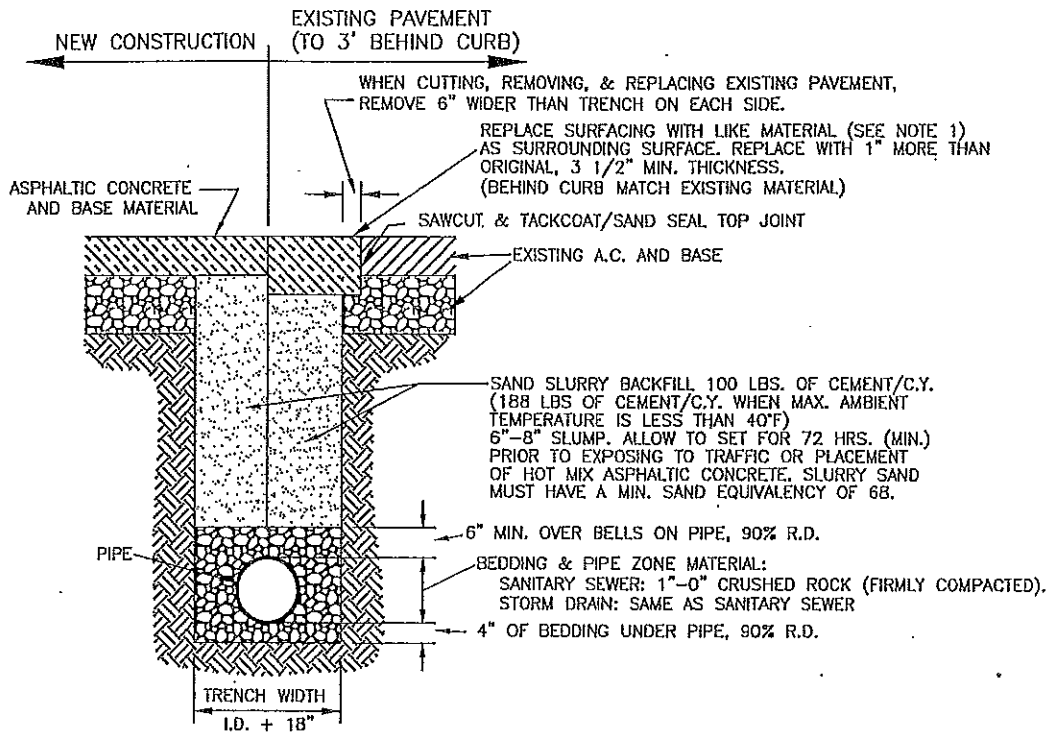


Section A-A

NOTES:

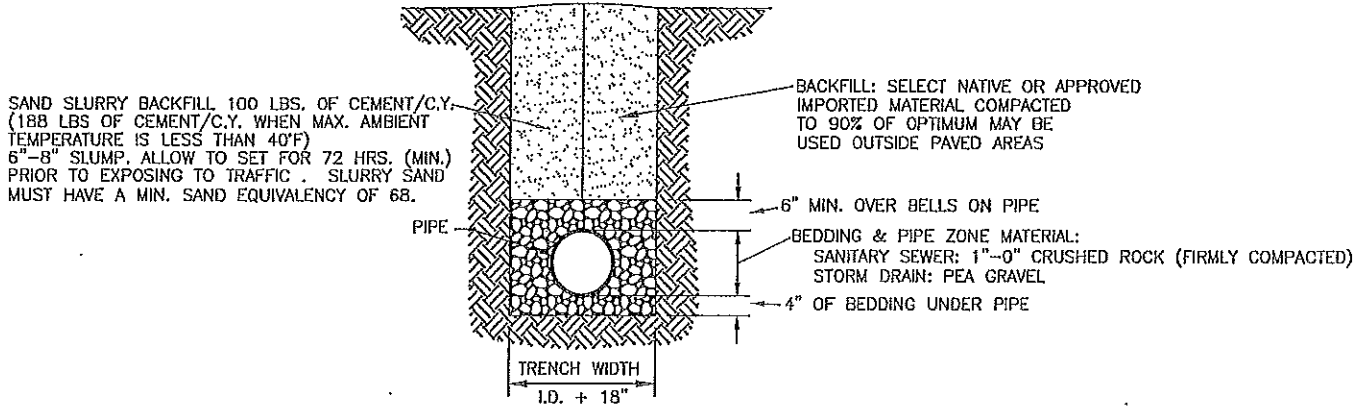
- 1) CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO
- 2) MIX WILL BE VIBRATED OR TAMPED AS DIRECTED BY THE ENGINEER.
- 3) EXPANSION JOINTS SHALL BE CONSTRUCTED OF 3/8" ASPHALT IMPREGNATED FELT.
- 4) VALLEY GUTTER SHALL PASS A WATER TEST TO ASSURE FLOW.

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: ATD |
| CITY OF TALENT STANDARD DETAIL | | | |
| STANDARD VALLEY GUTTER | | | |
| SCALE: NONE | | DWG. NO. 96-23 | |



**TRENCH DETAIL
UNDER PAVED AREAS**

NON-PAVED STREETS
& ALLEYS & OVER
3' BEHIND CURB OUTSIDE R\W & OUT
OF TRAFFIC AREAS

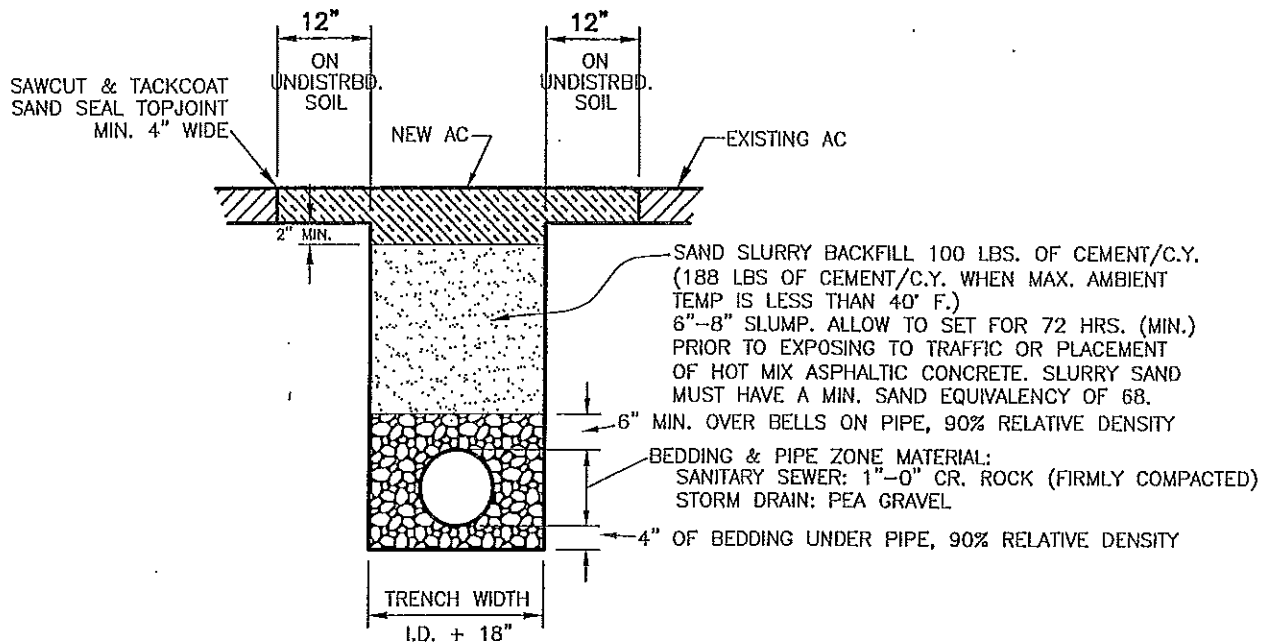


**TRENCH DETAIL
OUTSIDE PAVED AREAS**

NOTES:

1. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY FOR NO LONGER THAN 72 HOURS, WEATHER PERMITTING.
2. ALL STEEL TRAFFIC PLATES IN TRAVELLED AREAS MUST BE "RAMPED" WITH COLD MIX AC TO ALLOW SMOOTHER TRANSITION.
 - a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
 - b) MINIMUM 3/4" STEEL PLATE THICKNESS.

| NO. | DATE | INITIAL | REVISIONS |
|---|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| TRENCH DETAILS | | | |
| SCALE: NONE | | DWG. NO. 96-30 | |

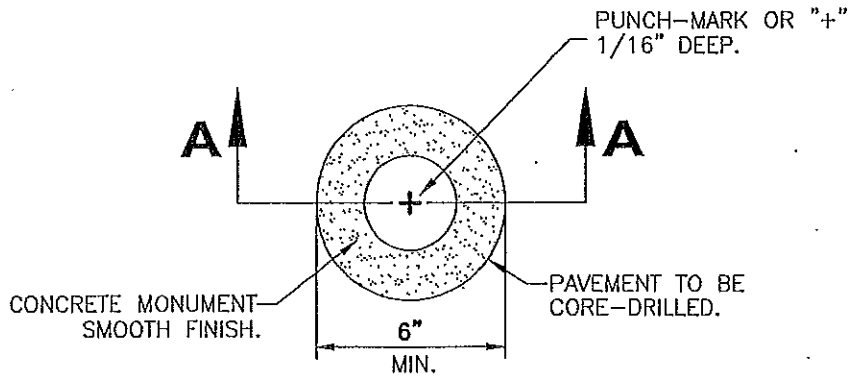


TRENCH DETAIL IN MORATORIUM AREAS

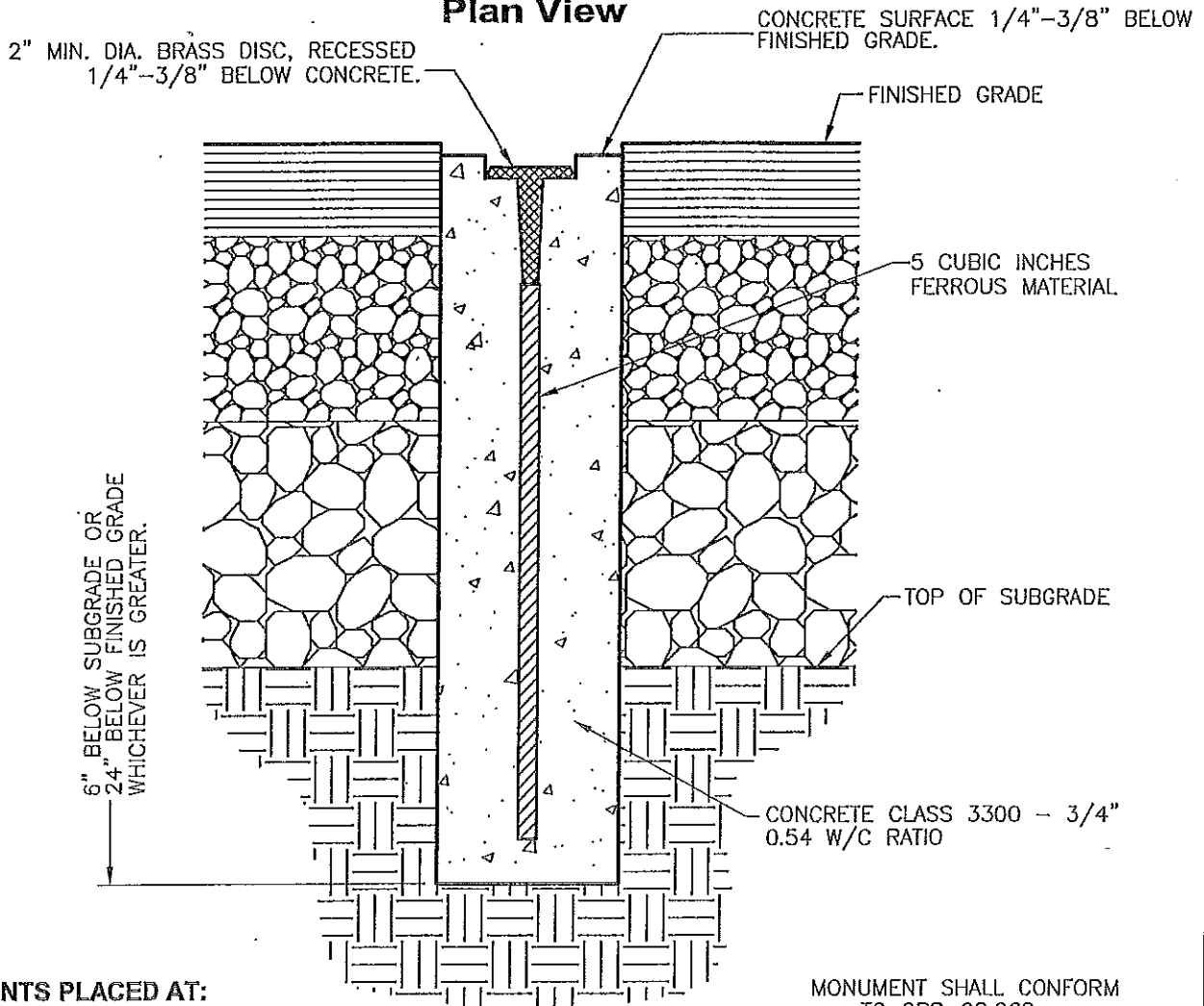
NOTES

- 1) MORATORIUM STREETS SHALL NOT BE CUT EXCEPT FOR EMERGENCY UTILITY REPAIR.
- 2) AFTER PATCHING, ENTIRE SURFACE SHALL BE INFRARED HEATED, BLENDED, AND COMPACTED.
- 3) INFRARED PATCHING WILL BE WARRANTED FOR 18 MONTHS FROM DATE OF COMPLETION.
- 4) INFRARED PATCHING SHALL BE PERFORMED WITHIN 14 CALENDAR DAYS OF TRENCH PATCH WORK (WEATHER PERMITTING).

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| TRENCH IN MORATORIUM STREET | | | |
| SCALE: NONE | | DWG. NO. 96-31 | |



Plan View



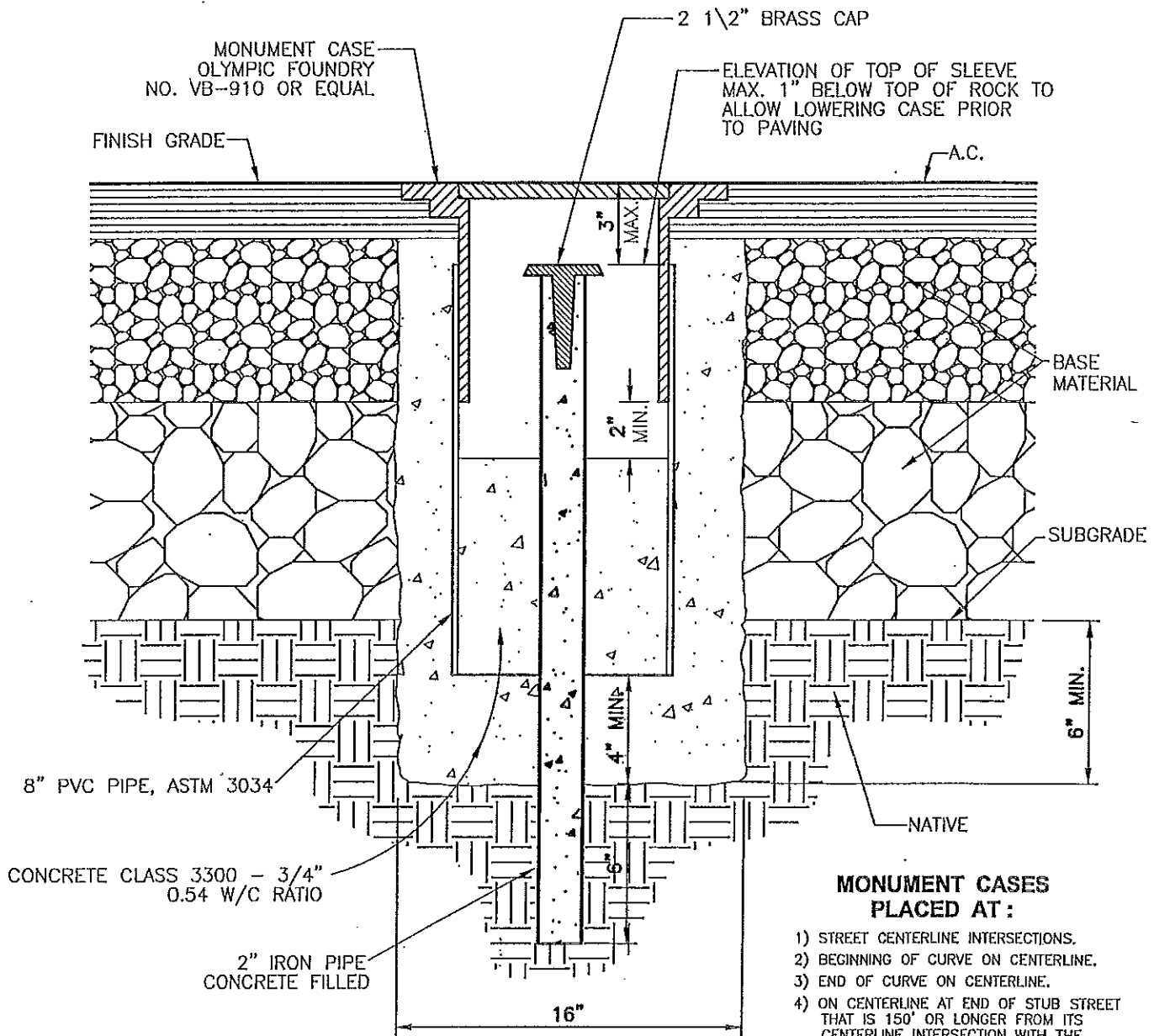
Section A-A

MONUMENTS PLACED AT:

- 1) STREET CENTERLINE INTERSECTIONS.
- 2) BEGINNING OF CURVE ON CENTERLINE.
- 3) END OF CURVE ON CENTERLINE.
- 4) ON CENTERLINE AT END OF STUB STREET THAT IS 150' OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
- 5) AT RADIUS POINT OF CUL-DE-SAC.
- 6) ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
- 7) ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
- 8) AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

MONUMENT SHALL CONFORM
TO ORS-92.060

| NO. | DATE | INITIAL | REVISIONS |
|-----------------------------------|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: TJF | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| MONUMENT DETAIL | | | |
| SCALE: NONE | | DWG. NO. 96-50 | |



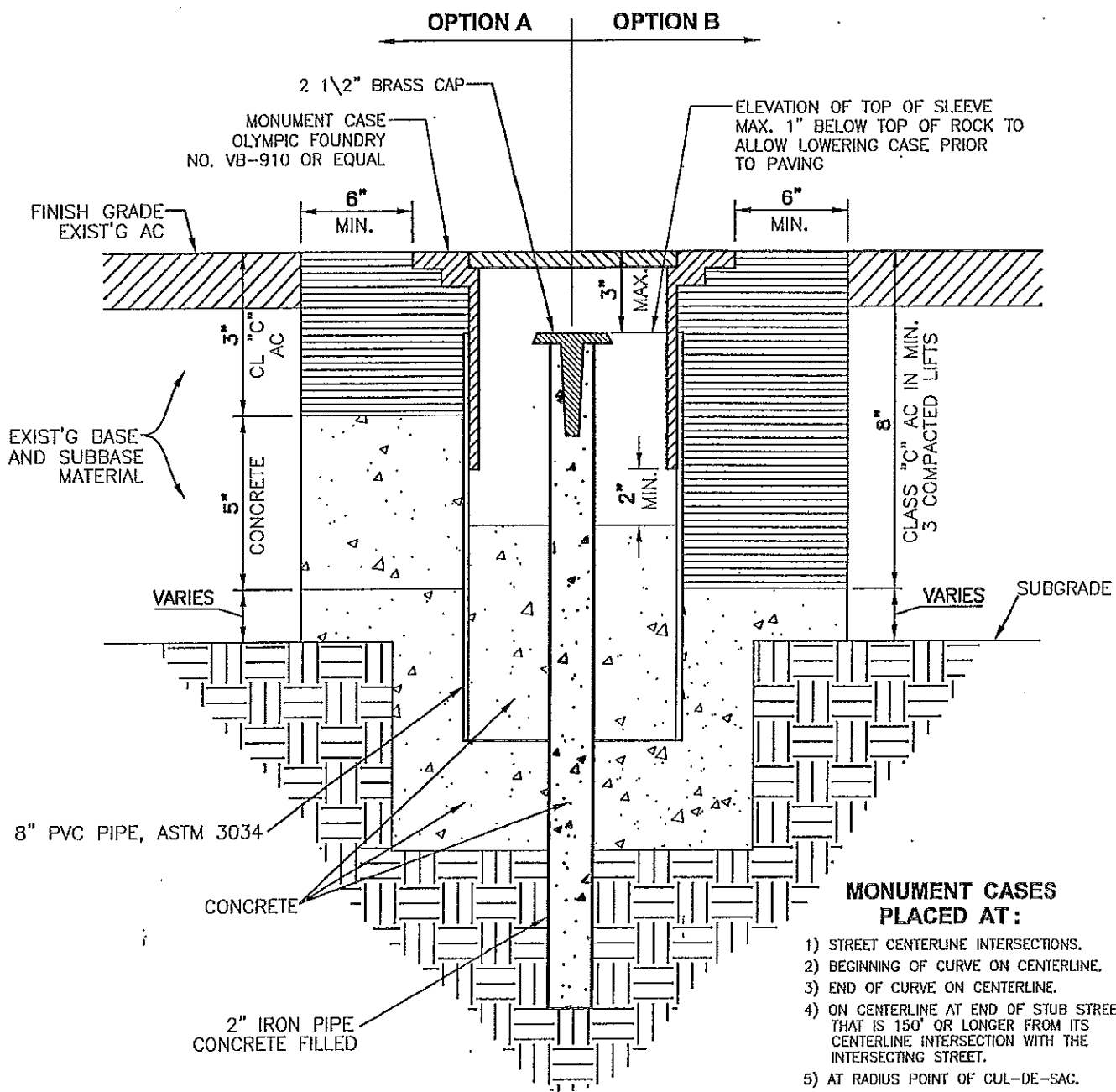
MONUMENT CASES PLACED AT :

- 1) STREET CENTERLINE INTERSECTIONS.
- 2) BEGINNING OF CURVE ON CENTERLINE.
- 3) END OF CURVE ON CENTERLINE.
- 4) ON CENTERLINE AT END OF STUB STREET THAT IS 150' OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
- 5) AT RADIUS POINT OF CUL-DE-SAC.
- 6) ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
- 7) ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
- 8) AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

NOTES

- 1) INSTALL MONCASE AFTER BASE ROCK IS COMPACTED AND PRIOR TO PAVING.
- 2) BASE ROCK SHALL BE RE-COMPACTED TO 95% MAX. DENSITY AFTER PLACEMENT OF CASE.

| NO. | DATE | INITIAL | REVISIONS |
|--|------|----------------|---------------|
| | | | |
| | | | |
| | | | |
| DATE: 6-17-98 | | DRAWN: T.J.F. | APPROVED: TAD |
| CITY OF TALENT STANDARD DETAIL | | | |
| MONUMENT CASE DETAIL NEW PAVEMENT | | | |
| SCALE: NONE | | DWG. NO. 96-51 | |



MONUMENT CASES PLACED AT:

- 1) STREET CENTERLINE INTERSECTIONS.
- 2) BEGINNING OF CURVE ON CENTERLINE.
- 3) END OF CURVE ON CENTERLINE.
- 4) ON CENTERLINE AT END OF STUB STREET THAT IS 150' OR LONGER FROM ITS CENTERLINE INTERSECTION WITH THE INTERSECTING STREET.
- 5) AT RADIUS POINT OF CUL-DE-SAC.
- 6) ON OFFSET CUL-DE-SAC AT BOTH CENTERLINE TANGENT POINT AND AT RADIUS POINT.
- 7) ANY EXISTING MONUMENT THAT IS DESTROYED SHALL BE REPLACED.
- 8) AT ANY OTHER POINTS THAT THE CITY MAY REQUIRE MONUMENTS TO BE PLACED.

NOTES

1) CONCRETE SHALL BE CLASS 3300 - 3/4" 0.54 W/C RATIO

OPTION A

3" OF WELL COMPACTED CLASS "C" AC OVER 5" OF CONCRETE.

OPTION B

8" MIN. OF WELL COMPACTED CLASS "C" AC. IN 3 LIFTS.

| NO. | DATE | INITIAL | REVISIONS |
|-----|------|---------|-----------|
| | | | |
| | | | |
| | | | |

DATE: 6-17-98 DRAWN: TJF APPROVED: TAD

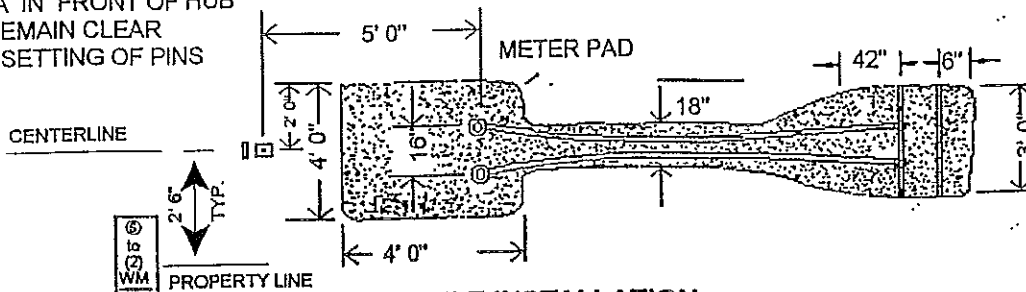
CITY OF TALENT
STANDARD DETAIL

**MONUMENT CASE DETAIL
EXISTING PAVEMENT**

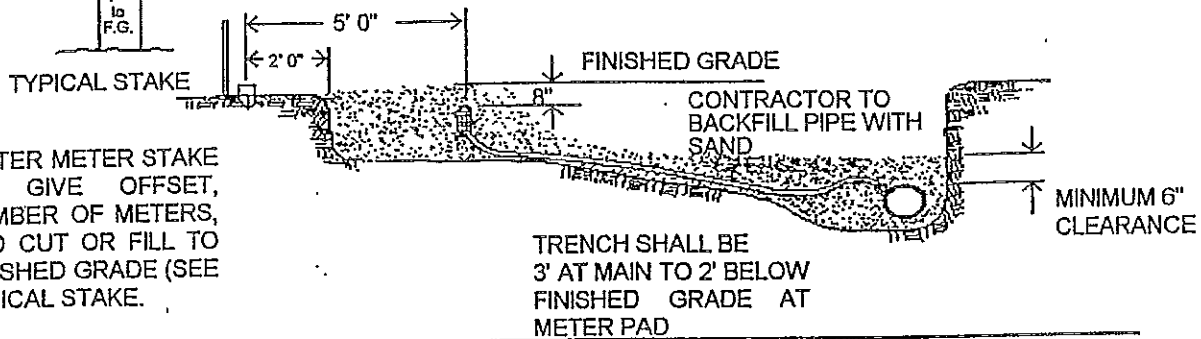
SCALE: NONE DWG. NO. 96-52

PLAN INSTALLATION

AREA IN FRONT OF HUB
TO REMAIN CLEAR
FOR SETTING OF PINS



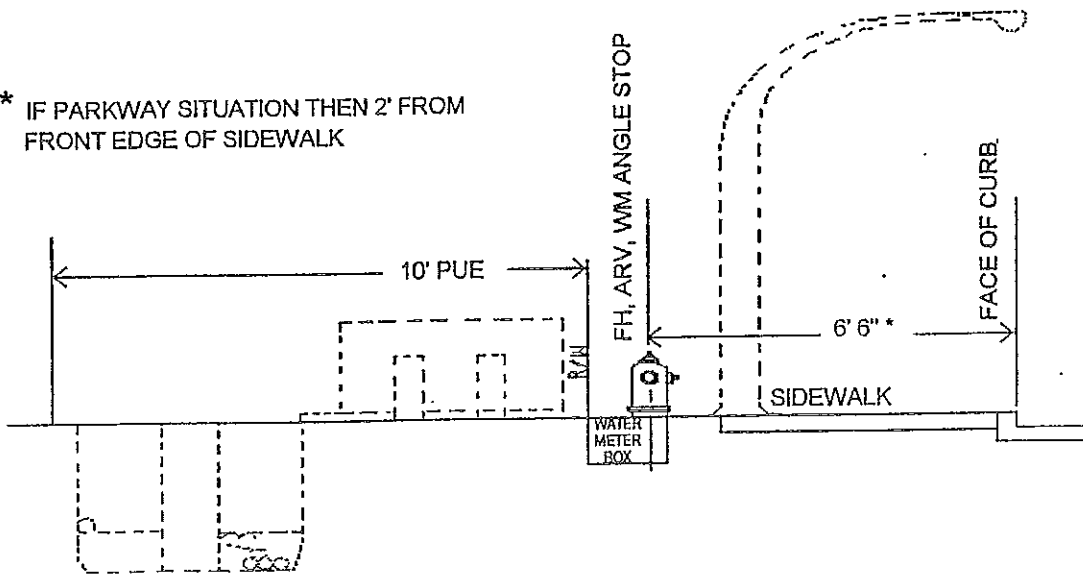
PROFILE INSTALLATION



1. WATER METER STAKE TO GIVE OFFSET, NUMBER OF METERS, AND CUT OR FILL TO FINISHED GRADE (SEE TYPICAL STAKE).

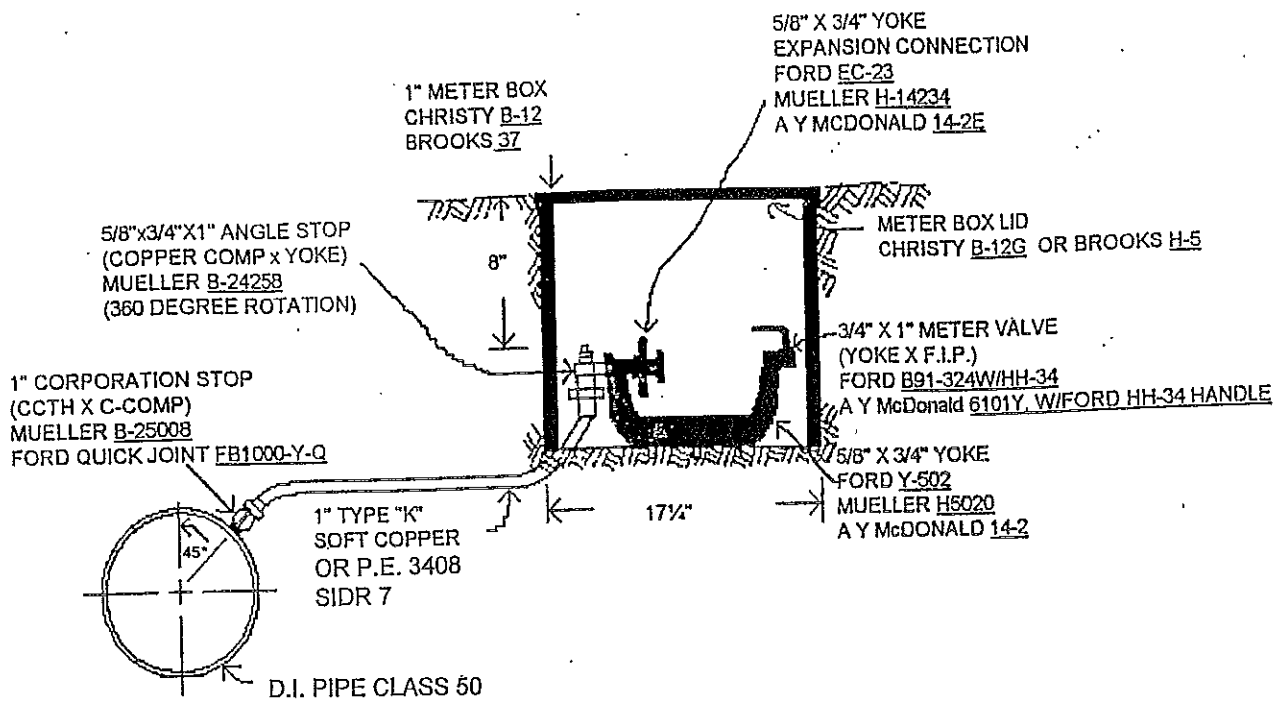
TRENCH SHALL BE
3' AT MAIN TO 2' BELOW
FINISHED GRADE AT
METER PAD

* IF PARKWAY SITUATION THEN 2' FROM
FRONT EDGE OF SIDEWALK



NOTE: IF RIGHT-OF-WAY WIDTHS/STREET WIDTHS PRECLUDE FH, ARV, WMS FROM BEING WITHIN RIGHT-OF-WAY, THEN DESIGN ENGINEER / SURVEYOR / OWNER / DEVELOPER TO CONFIRM EXACT LOCATIONS OF SUCH ITEMS WITH CITY.

| | |
|------|---------------------------------|
| DATE | CITY OF TALENT |
| 6/98 | METER INSTALLATION AND LOCATION |
| | STANDARD DETAIL NO. 100 |



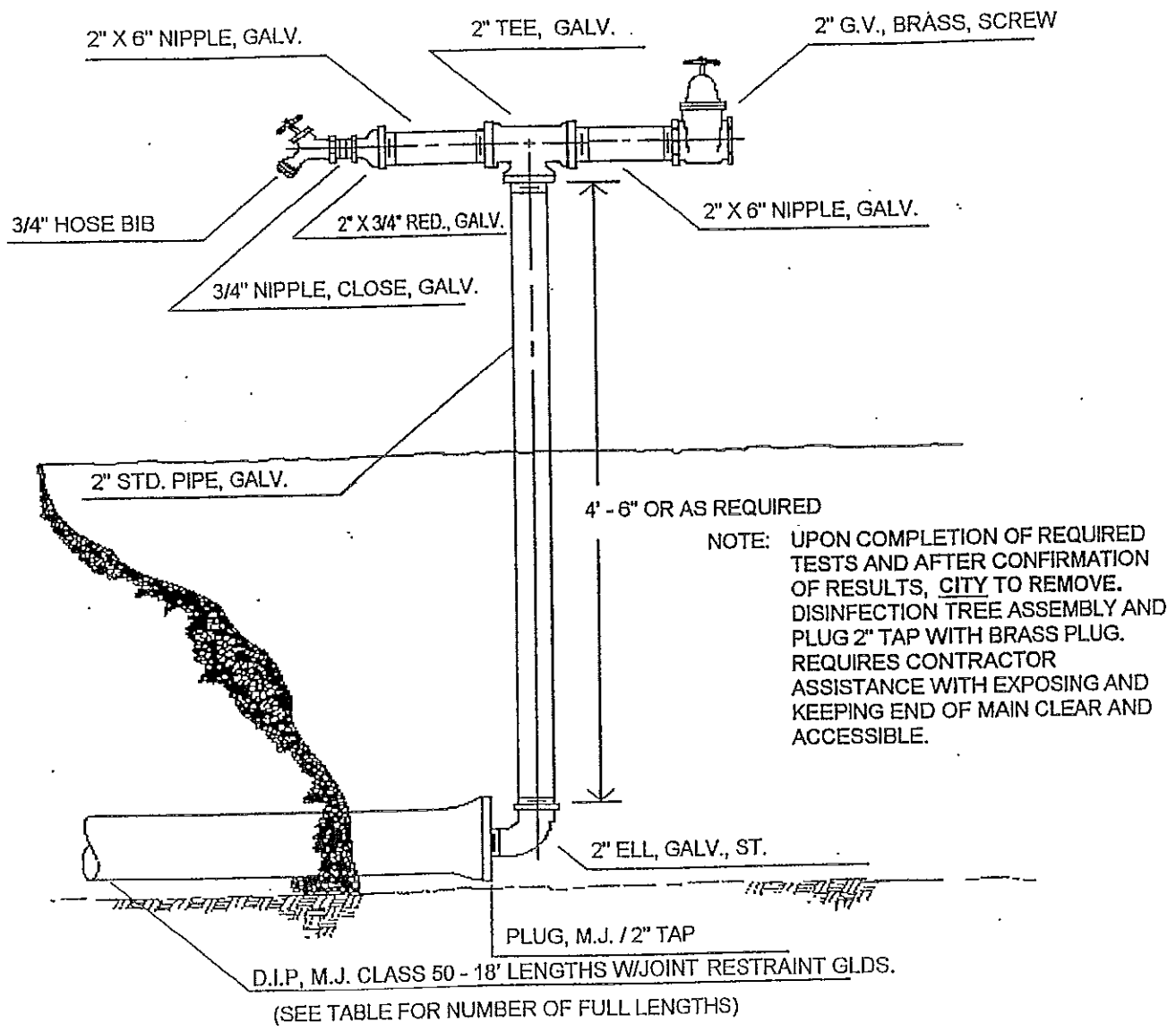
CITY OF TALENT

- 1) PERFORM SERVICE LINE TAPPING.
- 2) FURNISH AND INSTALL COPPER SERVICE LINE.
- 3) FURNISH AND INSTALL CORPORATION AND ANGLE STOPS.
- 4) FURNISH AND INSTALL YOKE BAR, CUSTOMER VALVE, METER BOX, BOX LID.
- 5) INSPECT.
- 6) FURNISH AND INSTALL METER, YOKE EXPANDER

CONTRACTOR

- 1) EXCAVATION AND BACKFILL.

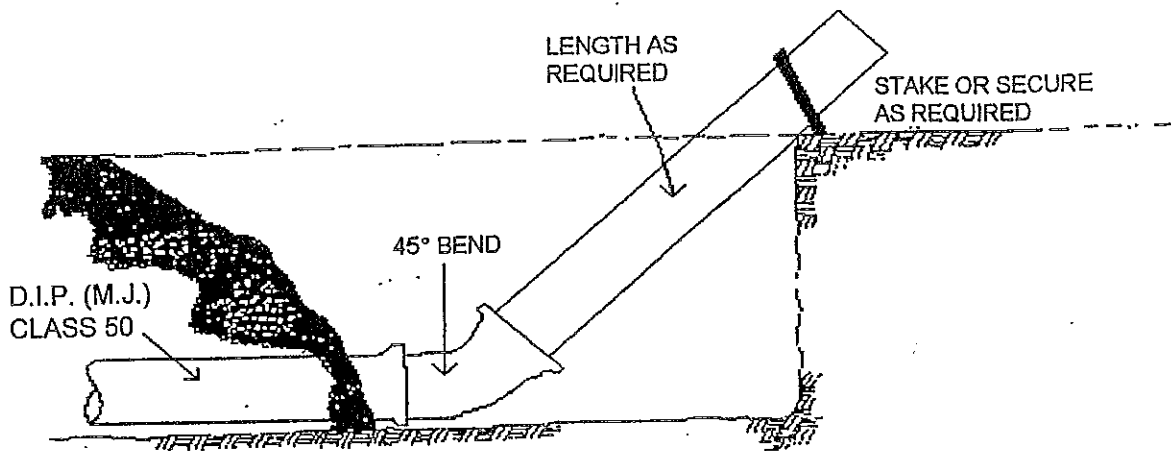
| | |
|-------|---|
| DATE | CITY OF TALENT |
| 6/98. | 1" SERVICE WITH 5/8" X 3/4" METER SETTING |
| | STANDARD DETAIL NO. 101 |



| SIZE TABLE | |
|------------|---|
| 4" | 3 |
| 6" | 3 |
| 8" | 3 |
| 12" | 5 |

| | |
|------|---|
| DATE | CITY OF TALENT |
| 6/98 | PRESSURE TEST, DISINFECTION, DECHLORINATION, AND SAMPLING TREE W/ END DRAIN |
| | STANDARD DETAIL NO. 102 |

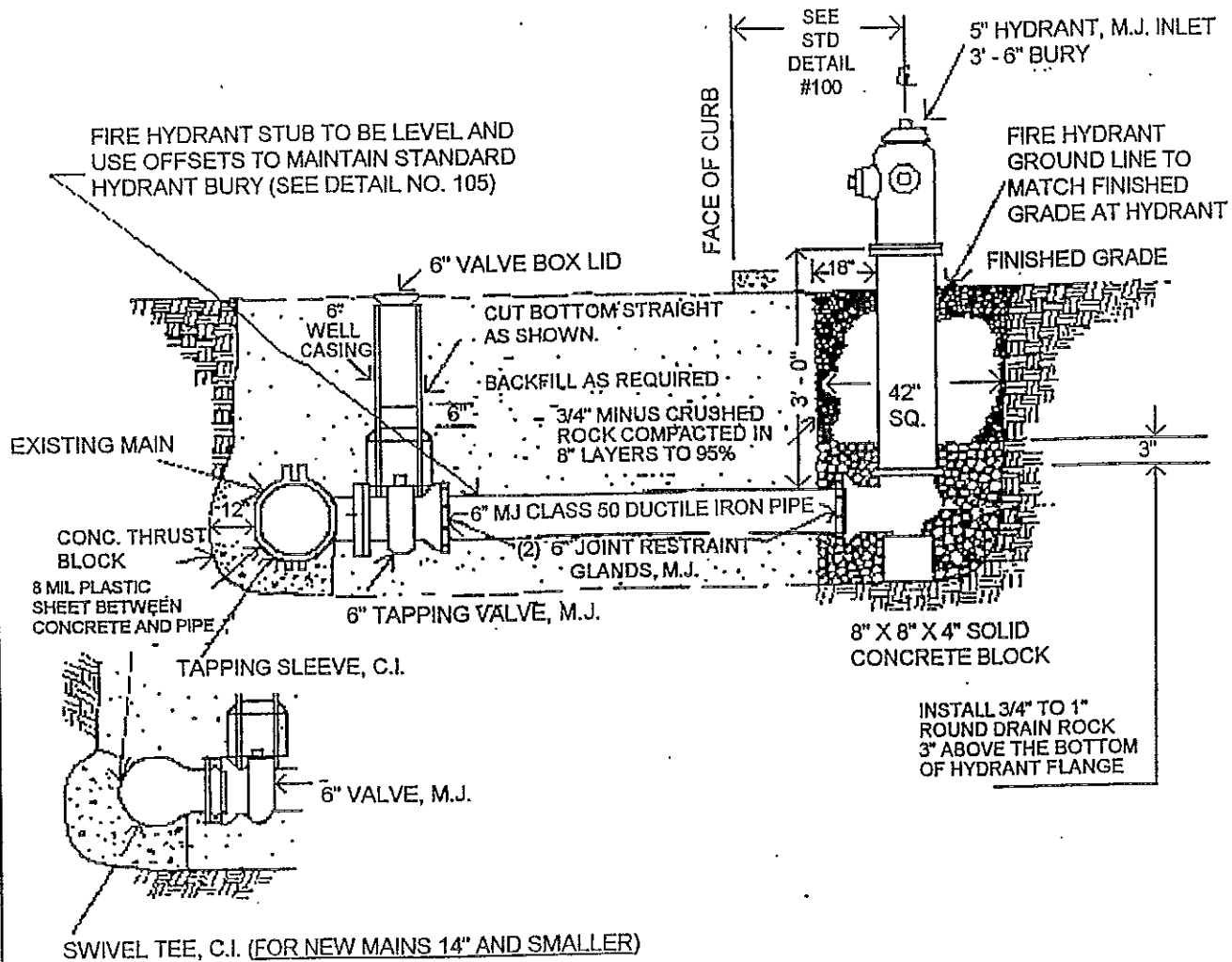
NOTE: INSURE AGAINST FLUSHED
WATER RE-ENTERING THE
PIPELINE.



4" - 12" PIPE - FLUSH POINT IS SAME SIZE AS PIPE BEING INSTALLED.

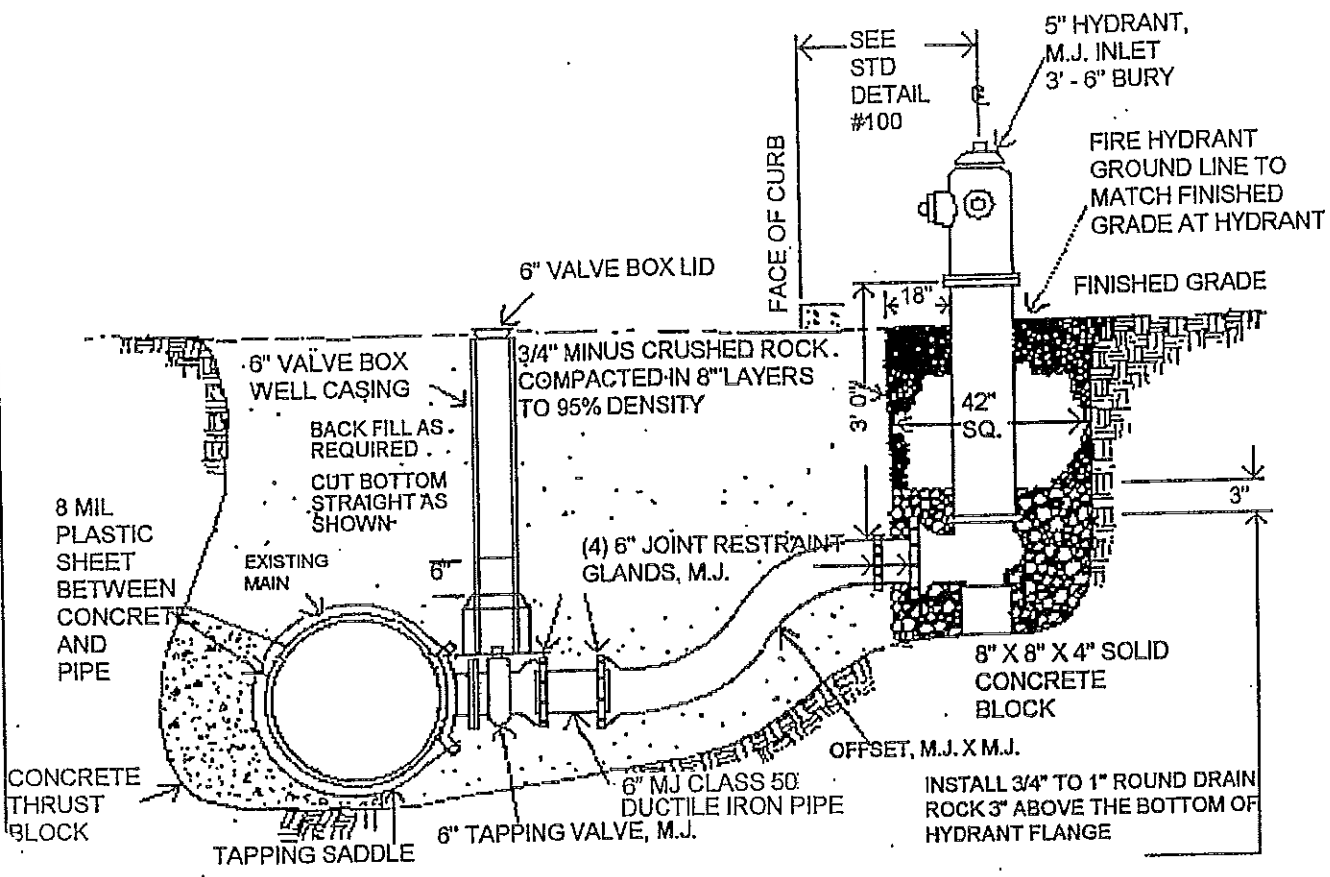
LARGER THAN 12" PIPE - TO BE DETERMINED BY CITY.

| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | FULL SIZE FLUSH POINT |
| | STANDARD DETAIL NO. 103 |



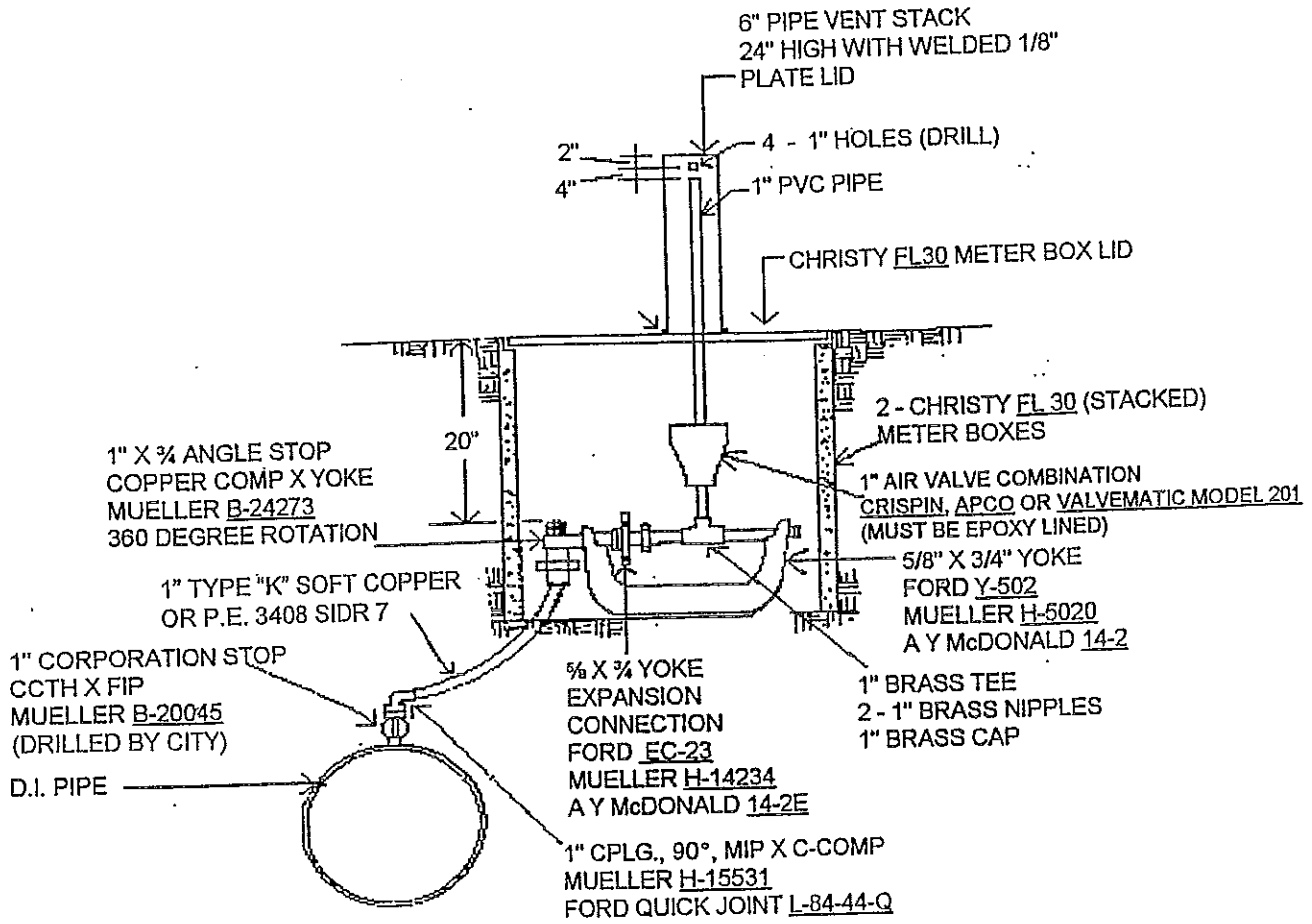
1. AN OFFSET SIMILAR TO STANDARD DETAIL NO. 105 WILL BE REQUIRED TO ALLOW THE USE OF A STANDARD 3'-6" BURY HYDRANT WHEN MAIN IS LARGER THAN 8" OR MAIN HAS MORE THAN 3'-0" OF COVER.
2. A MINIMUM OF 5'-0" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.

| | |
|------|---|
| DATE | CITY OF TALENT |
| 6/98 | HYDRANT INSTALLATION FOR MAIN 14" AND SMALLER |
| | STANDARD DETAIL NO. 104 |



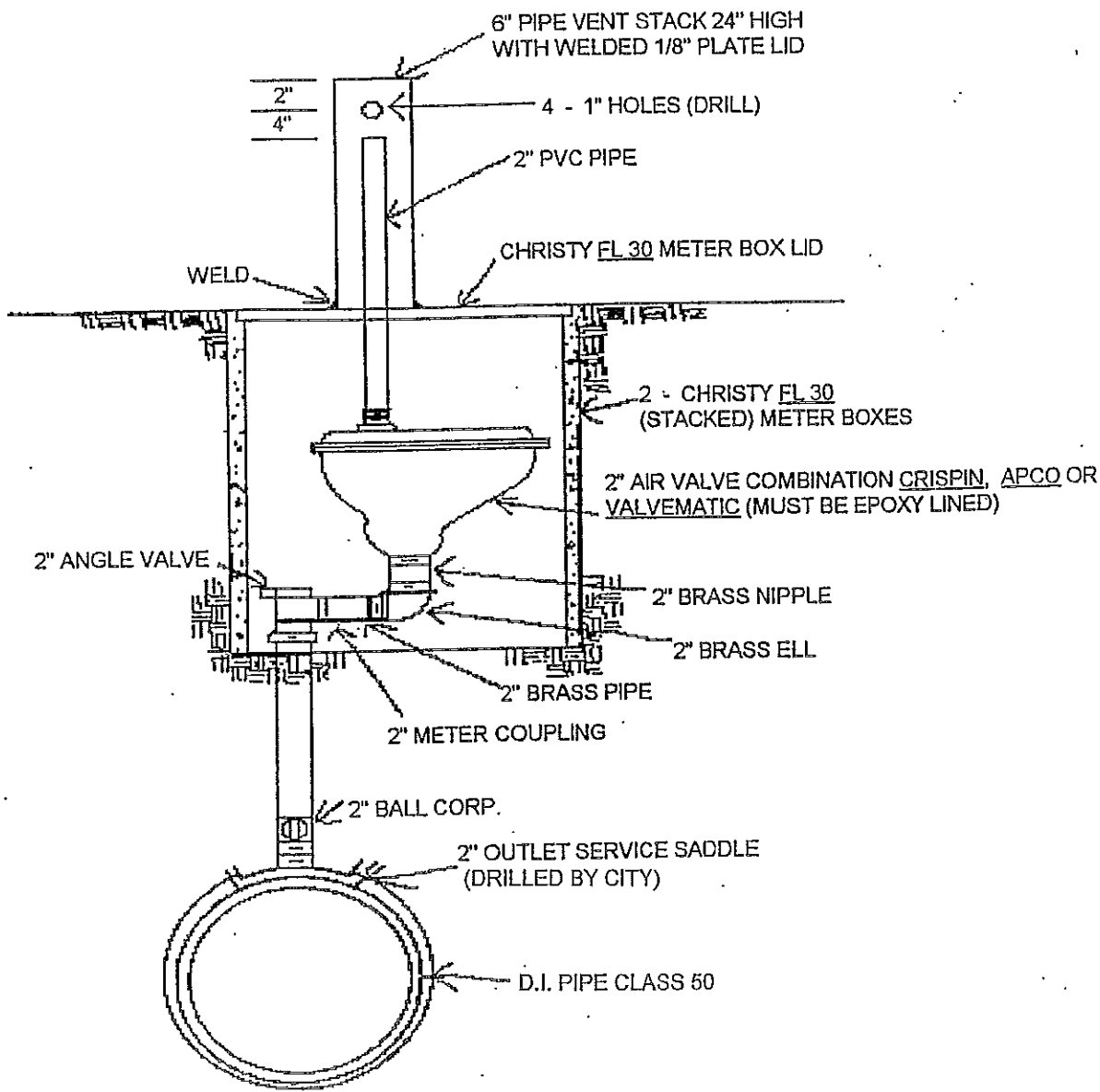
1. A MINIMUM OF 5' -0" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT BARREL. WHEN HYDRANT IS WITHIN PLANTER AREA, ADEQUATE SIDE AND REAR CLEARANCES FROM CURB LINES MUST BE MET BY THIS MINIMUM. CONCRETE SLAB WILL BE POURED CURB TO CURB AND A MINIMUM OF 2' AROUND FIRE HYDRANT WHEN IN PLANTER AREAS. BOLLARDS (SEE DETAIL NO. 112) MAY BE REQUIRED.

| | |
|------|--|
| DATE | CITY OF TALENT |
| 6/98 | HYDRANT INSTALLATION FOR MAIN 16" AND LARGER |
| | STANDARD DETAIL NO. 105 |

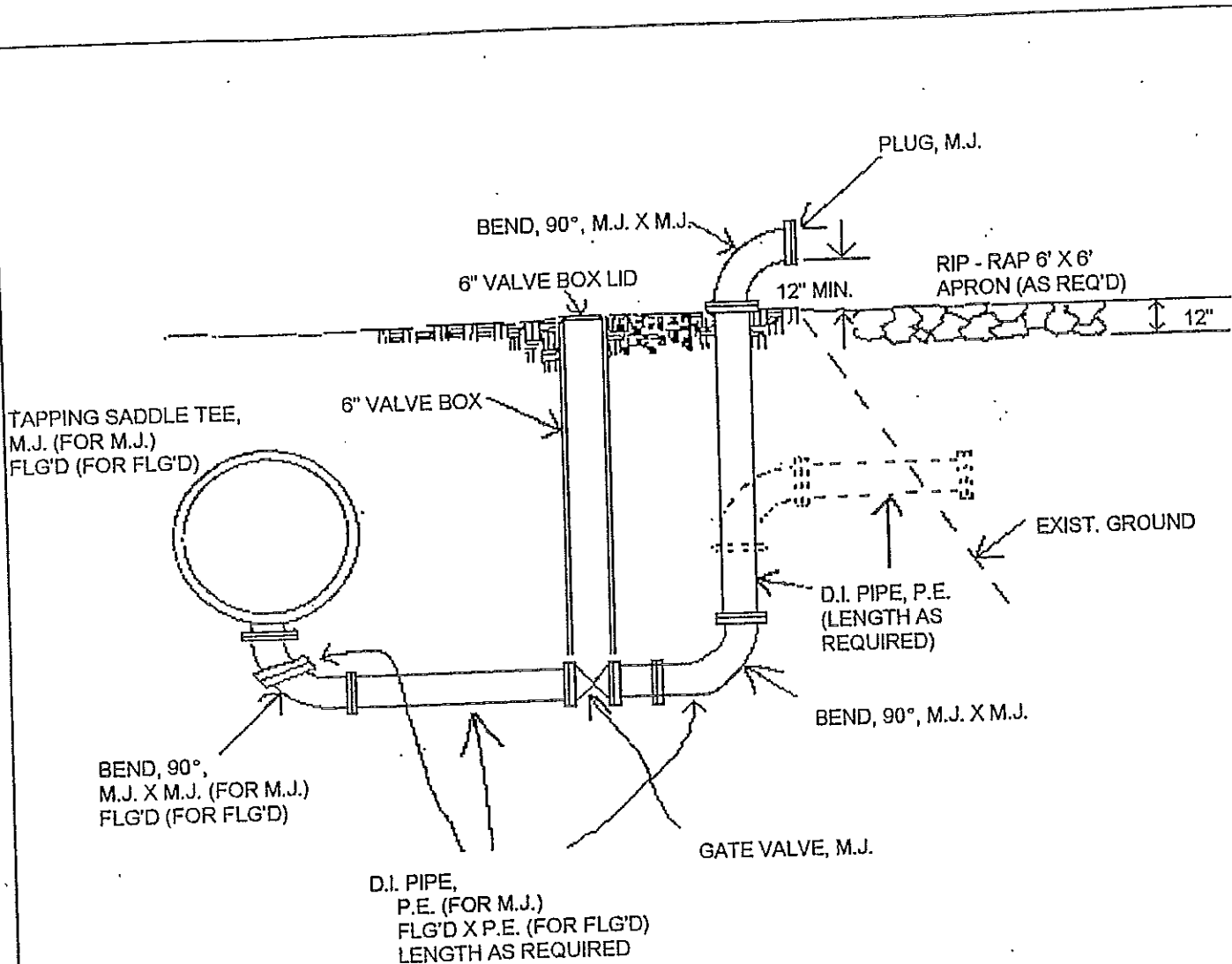


1. COPPER PIPE MUST ALWAYS BE INSTALLED WITH GRADE RISING FROM CORP STOP TO ANGLE STOP (NO HIGH POINTS).

| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | 1" AIR VALVE |
| | STANDARD DETAIL NO. 106 |

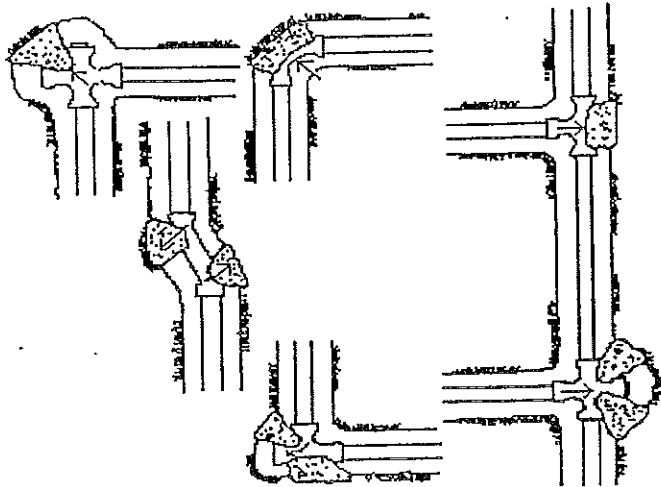


| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | 2" AIR VALVE |
| | STANDARD DETAIL NO. 107 |



1. FURNISH AND INSTALL JOINT RESTRAINT GLANDS

| | |
|------|----------------------------|
| DATE | CITY OF TALENT |
| 6/98 | MAINLINE BLOWOFF ASSEMBLY. |
| | STANDARD DETAIL NO. 108 |



GENERAL NOTES:

1. THE BEARING SURFACE SHALL BE AT LEAST THE MINIMUM SHOWN BELOW AND SHALL BE AGAINST UNDISTURBED MATERIAL.
2. THE MINIMUM THICKNESS OF THE BLOCK SHALL BE 12" OR TWICE THE PIPE DIAMETER WHICH EVER IS GREATER.
3. 8 MIL. PLASTIC MUST BE INSTALLED BETWEEN ALL CONCRETE AND PIPE OR FITTINGS.
4. CAUTION SHOULD BE EXERCISED TO INSURE BOLTS ARE NOT COVERED WITH CONCRETE.
5. 3,300 PSI CONCRETE

THRUST BLOCKS

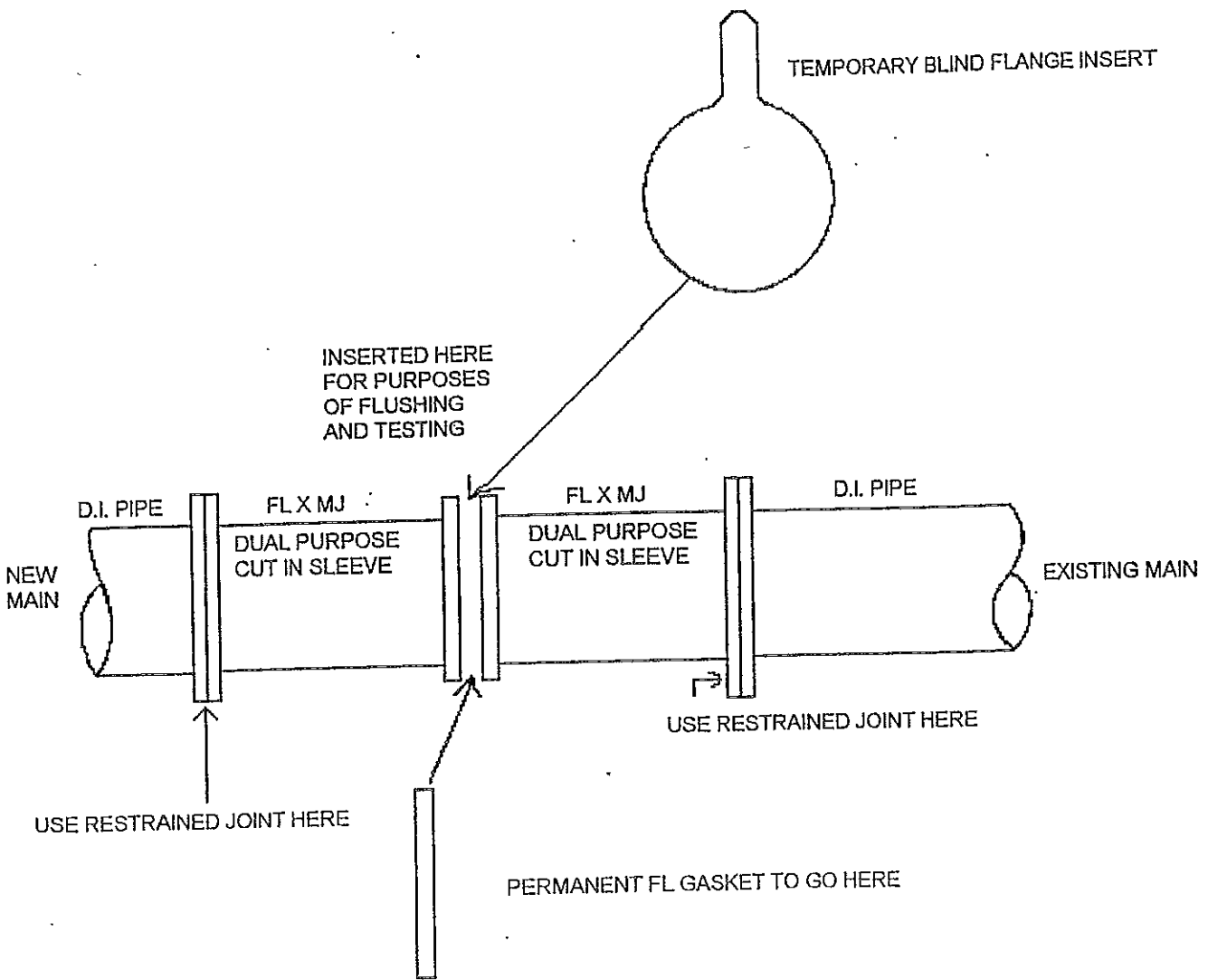
⓪ POUNDS OF THRUST / Ⓛ MINIMUM AREA - SQ. FT.

| PIPE SIZE | 90° BEND | | 45°, 22½°, 11¼° BENDS | | VALVES, TEES, DEAD ENDS | |
|-----------|----------|----------|-----------------------|----------|-------------------------|----------|
| | # THRUST | MIN AREA | # THRUST | MIN AREA | # THRUST | MIN AREA |
| 4 | 2700 | 2.0 | 1650 | 1.5 | 1950 | 1.5 |
| 6 | 6000 | 4.0 | 3450 | 2.5 | 4350 | 3.0 |
| 8 | 10800 | 7.5 | 6150 | 4.5 | 7650 | 5.5 |
| 12 | 24000 | 16.0 | 13650 | 9.5 | 16950 | 11.5 |

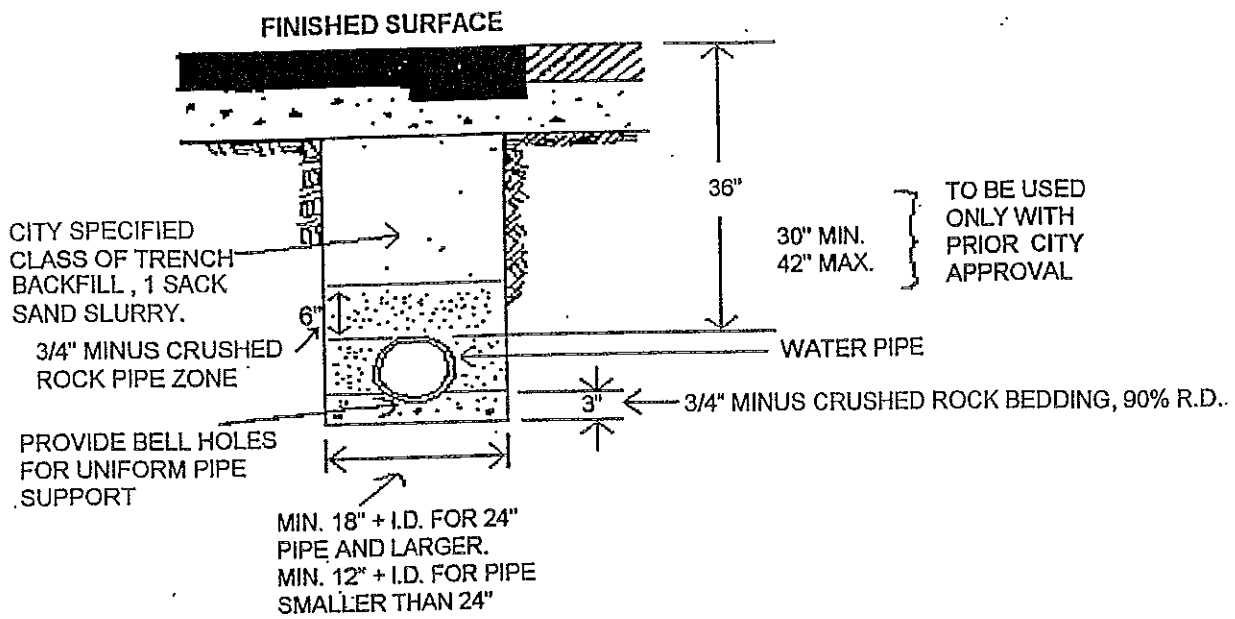
① BASED UPON 150 PSI WORKING PRESSURE.

② BASED UPON SOIL WITH 1500 PSF BEARING CAPACITY. CAUTION MUST BE USED BY THE DESIGNER TO BE SURE BEARING LOAD CAPACITY OF SOIL IS AT LEAST 1500 PSF.

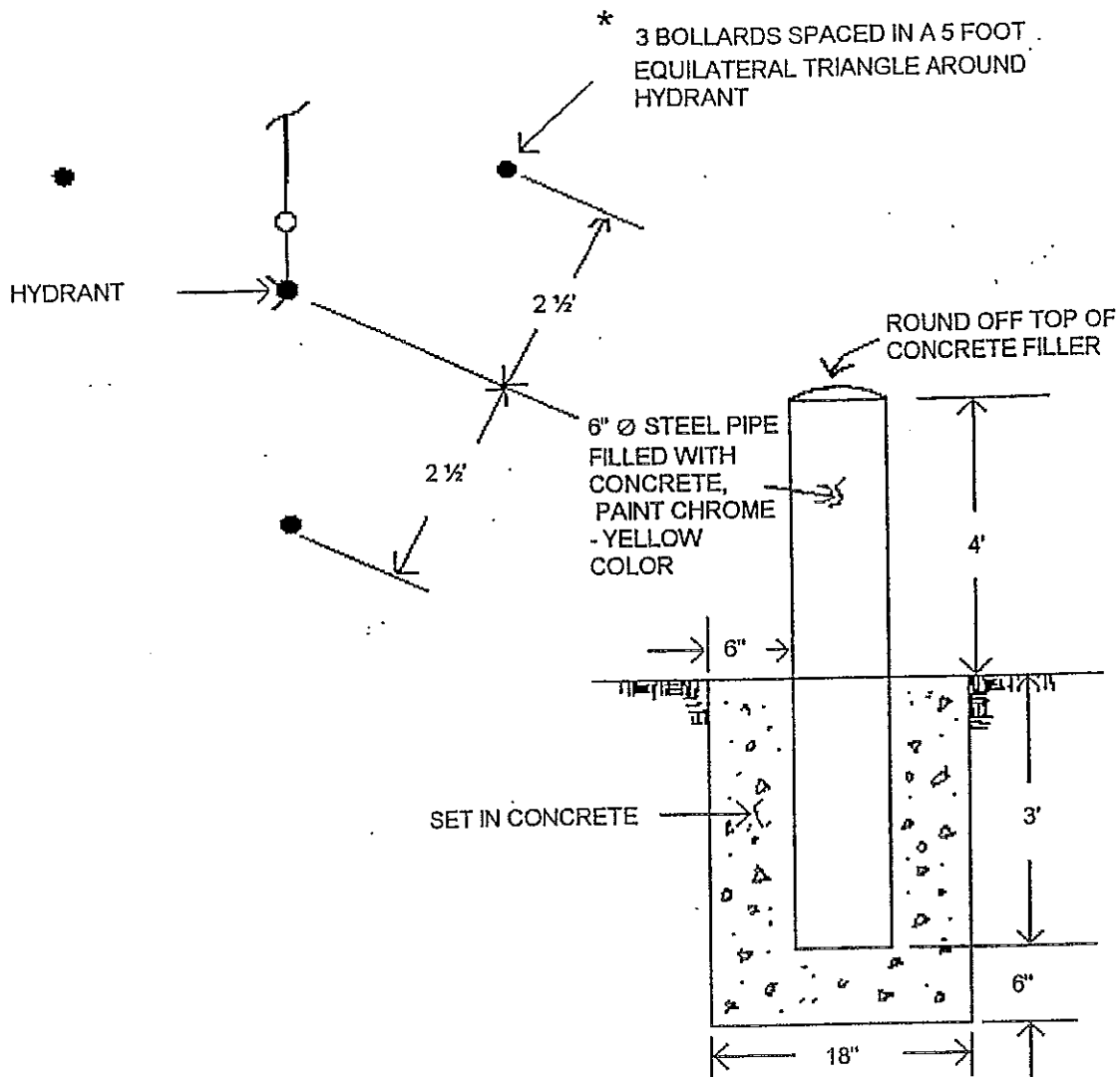
| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | THRUST BLOCKS |
| | STANDARD DETAIL NO. 109 |



| | |
|------|--------------------------------|
| DATE | CITY OF TALENT |
| 6/98 | CUT - IN SLEEVE |
| | STANDARD DETAIL NO. 110 |

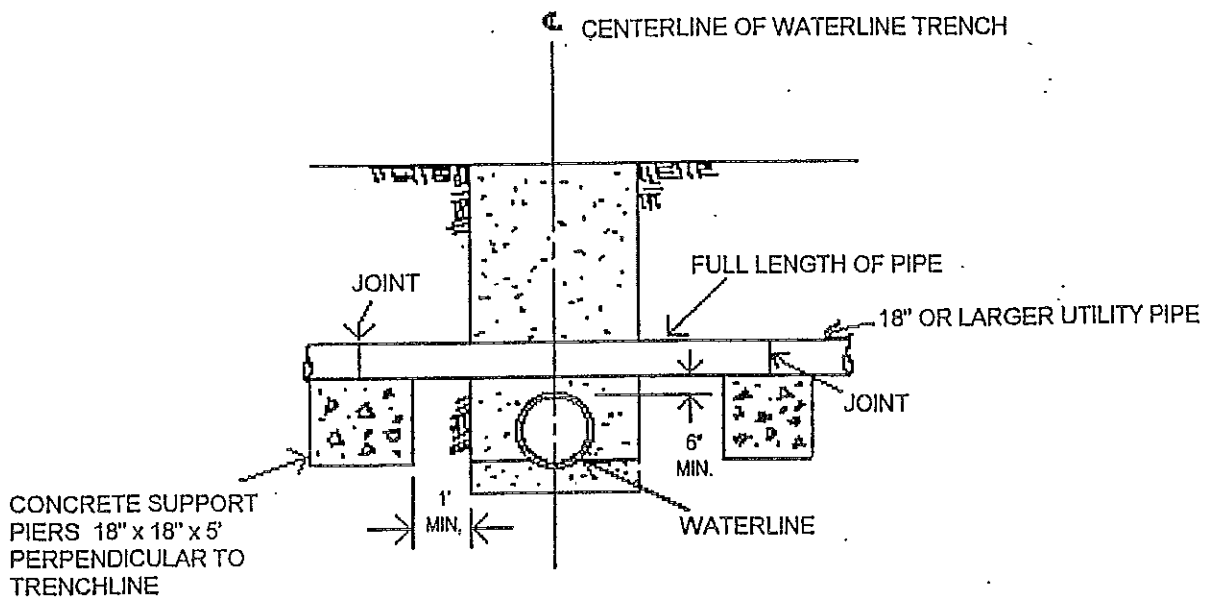


| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | TYPICAL TRENCH DETAIL |
| | STANDARD DETAIL NO. 111 |



* IF HYDRANT IS IN LANDSCAPED, CURBED PLANTER, WITH 5' FROM FIRE HYDRANT TO FACE OF CURB IN EACH DIRECTION, BOLLARDS WILL NOT BE REQUIRED.

| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | BOLLARD DETAIL |
| | STANDARD DETAIL NO. 112 |



| | |
|------|-------------------------|
| DATE | CITY OF TALENT |
| 6/98 | SUPPORT PIER DETAIL |
| | STANDARD DETAIL NO. 113 |