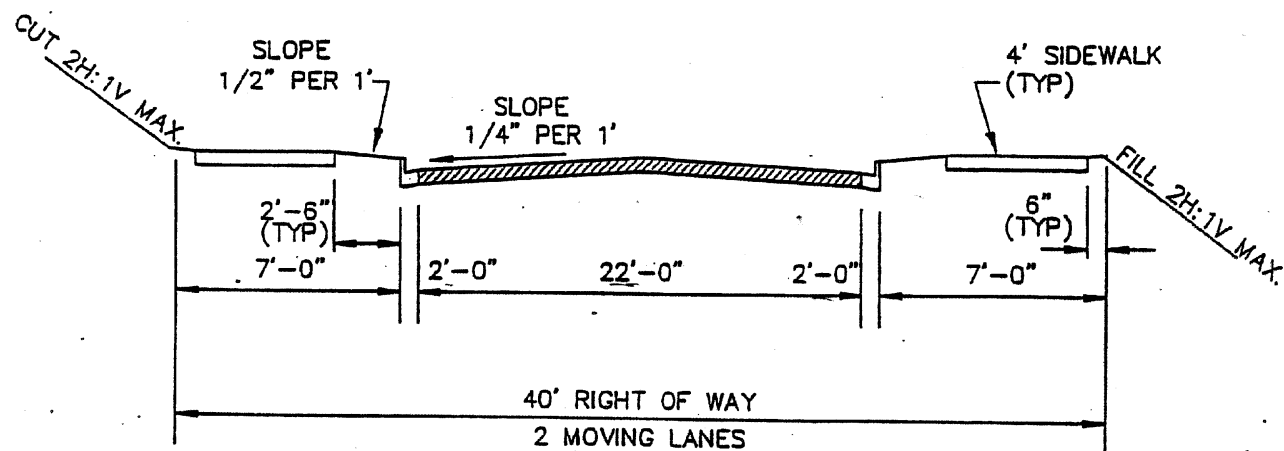
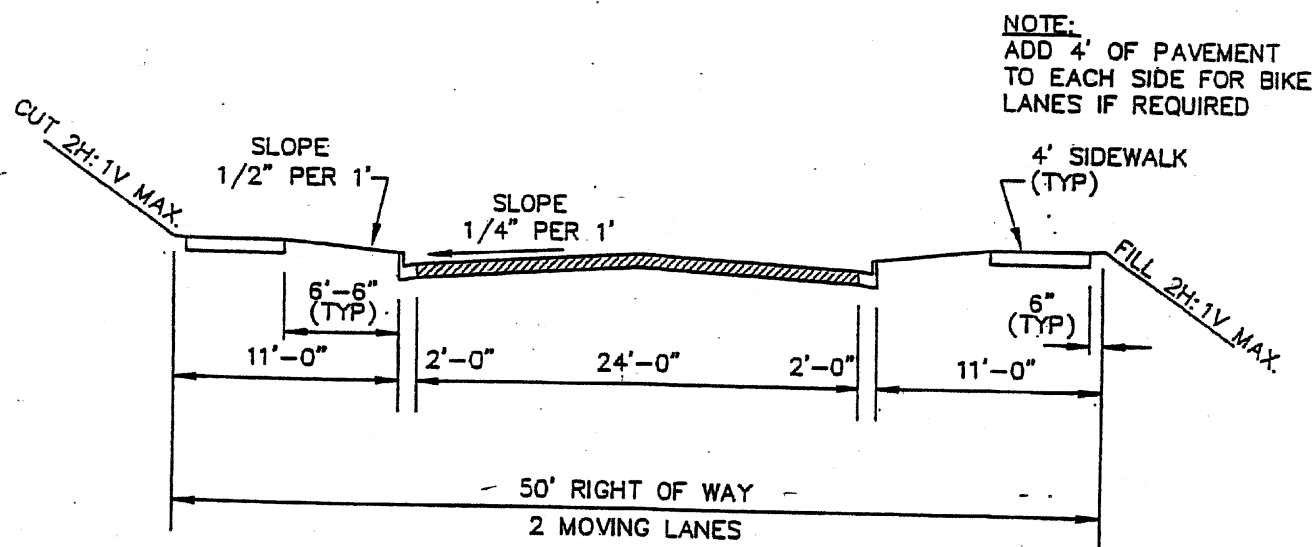




### MINOR RESIDENTIAL STREETS



### RESIDENTIAL STREETS



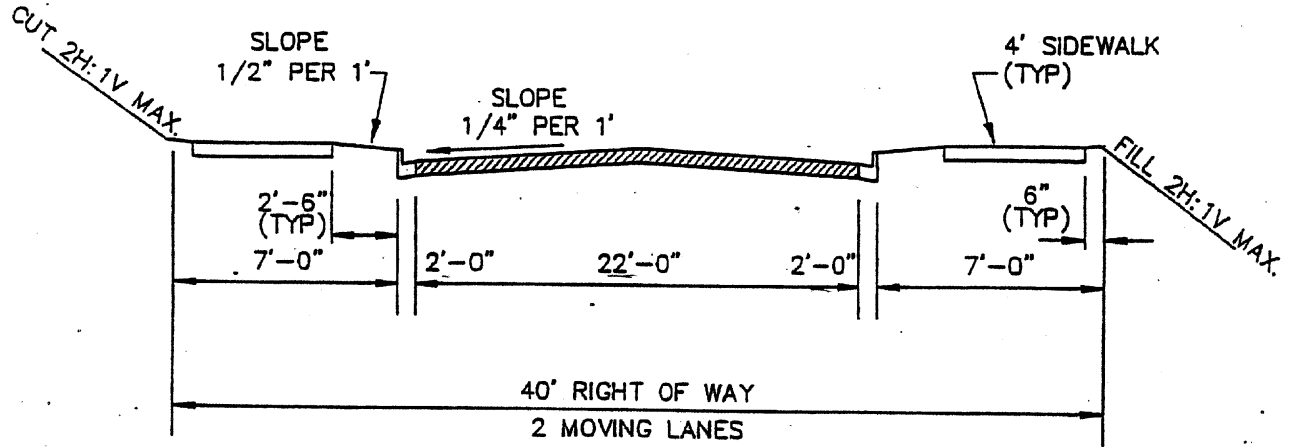
**City of West Point**

### TYPICAL ROADWAY DESIGN

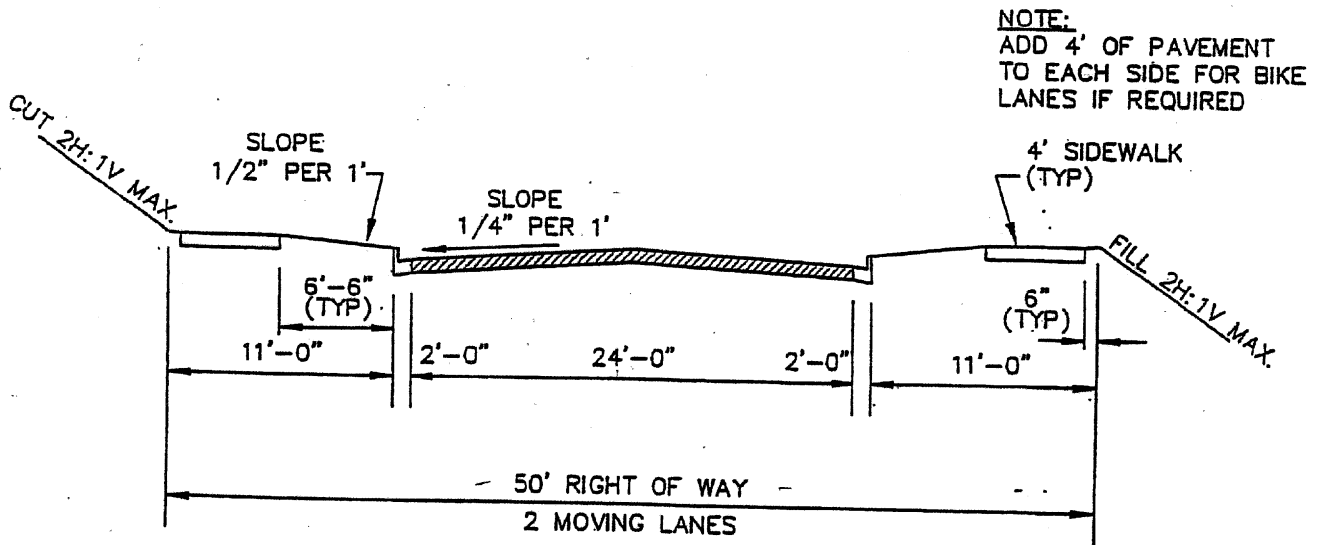
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



### MINOR RESIDENTIAL STREETS



### RESIDENTIAL STREETS



**City of West Point**

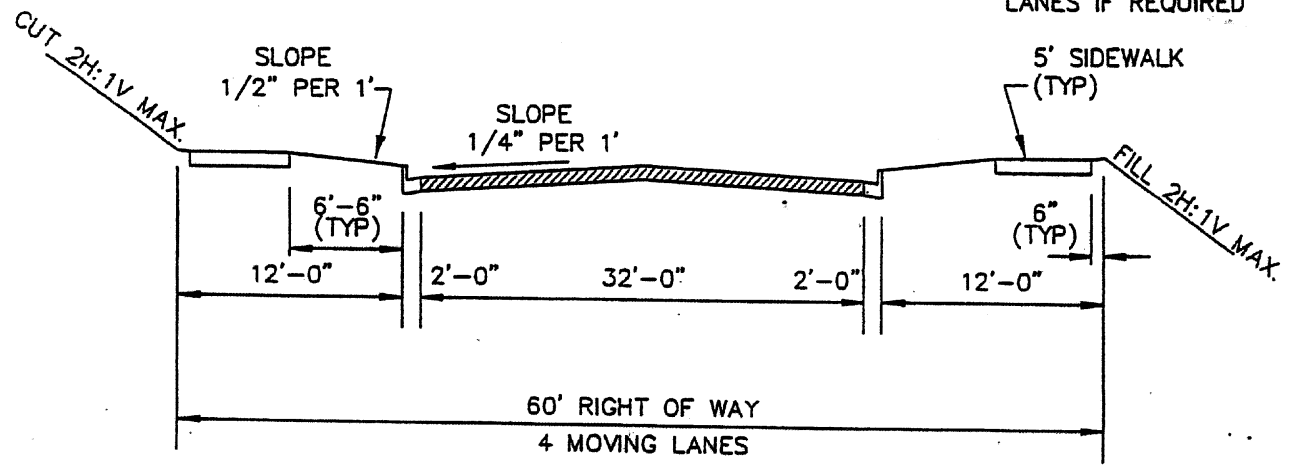
### TYPICAL ROADWAY DESIGN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

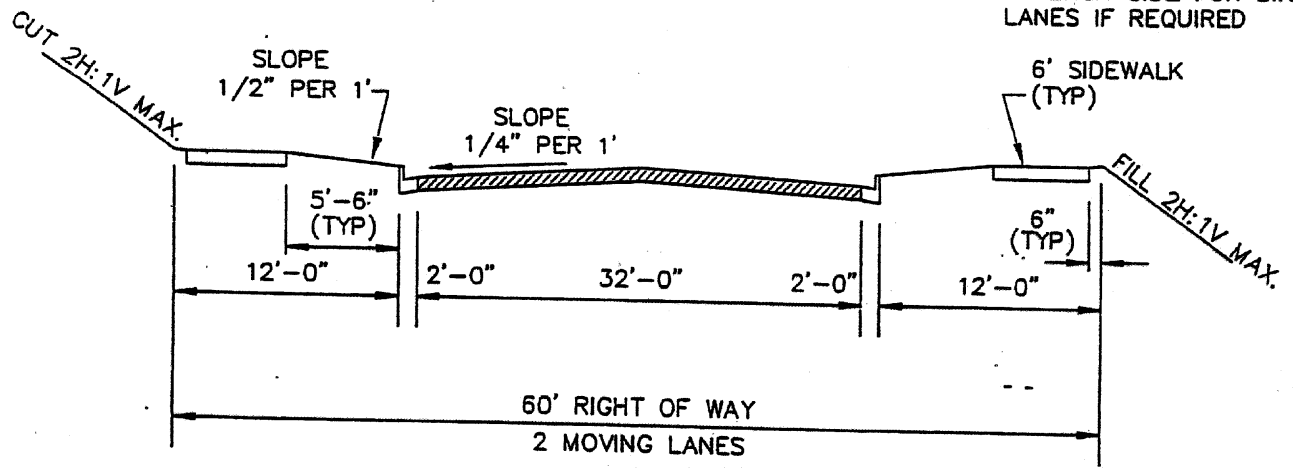
DATE: JUNE 1998

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



RESIDENTIAL COLLECTOR STREETS

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



COMMERCIAL LOCAL STREETS

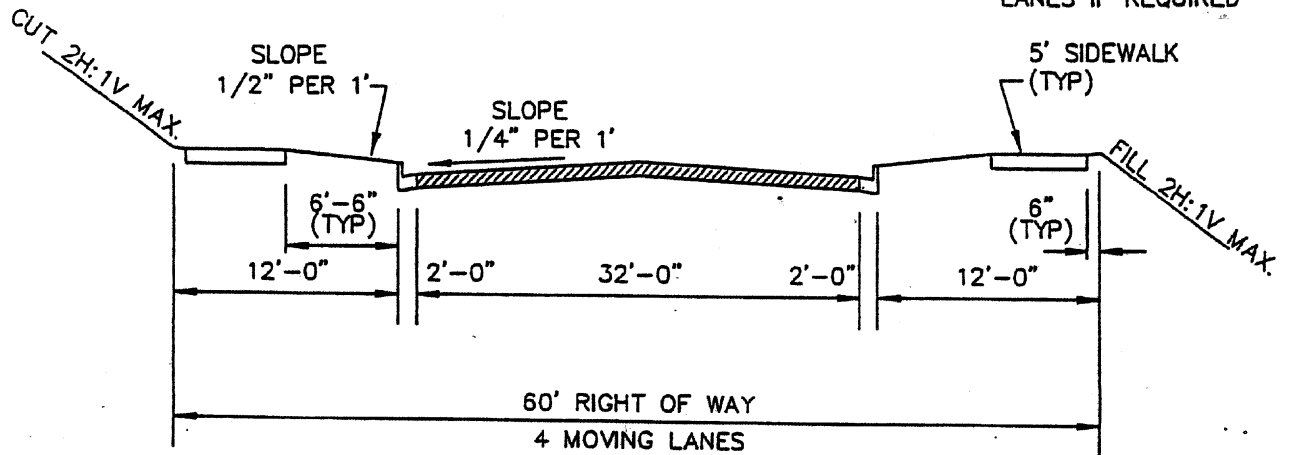


**City of West Point**

**TYPICAL ROADWAY DESIGN**

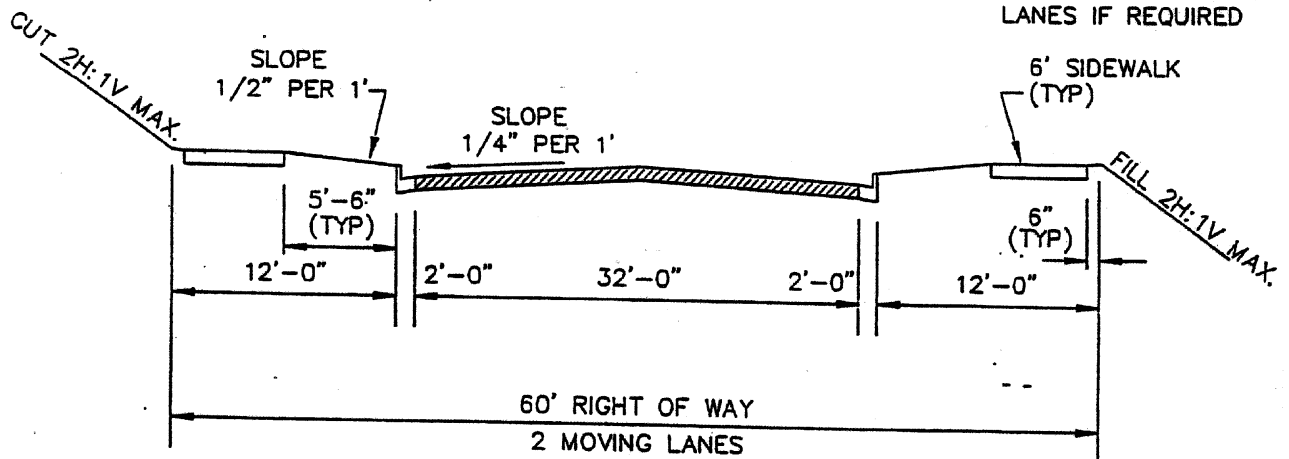
STANDARD DEVELOPMENT DETAILS  
SCALE: NONE  
DATE: JUNE 1998

NOTE:  
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## RESIDENTIAL COLLECTOR STREETS

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



## COMMERCIAL LOCAL STREETS



City of West Point

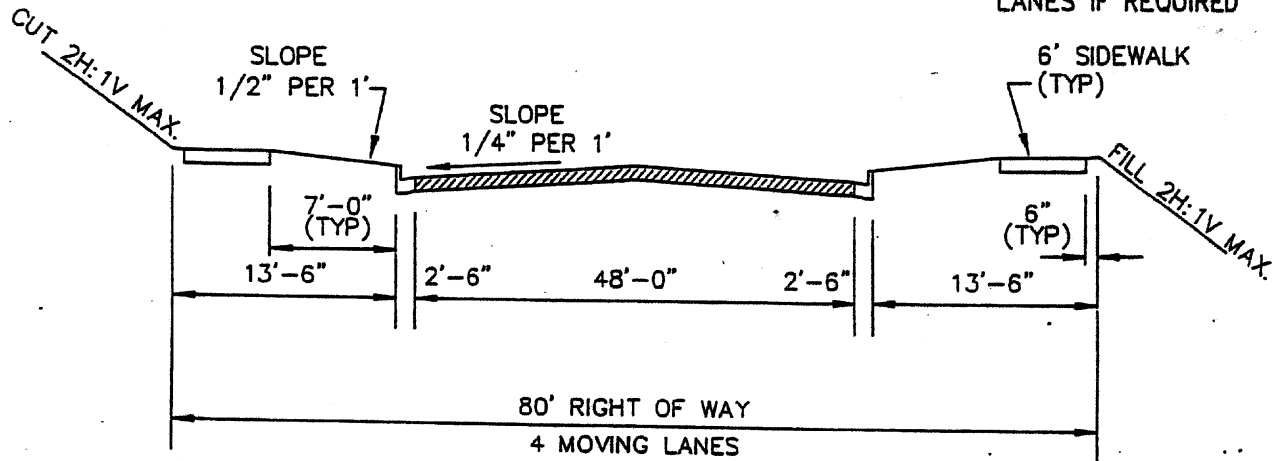
## TYPICAL ROADWAY DESIGN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

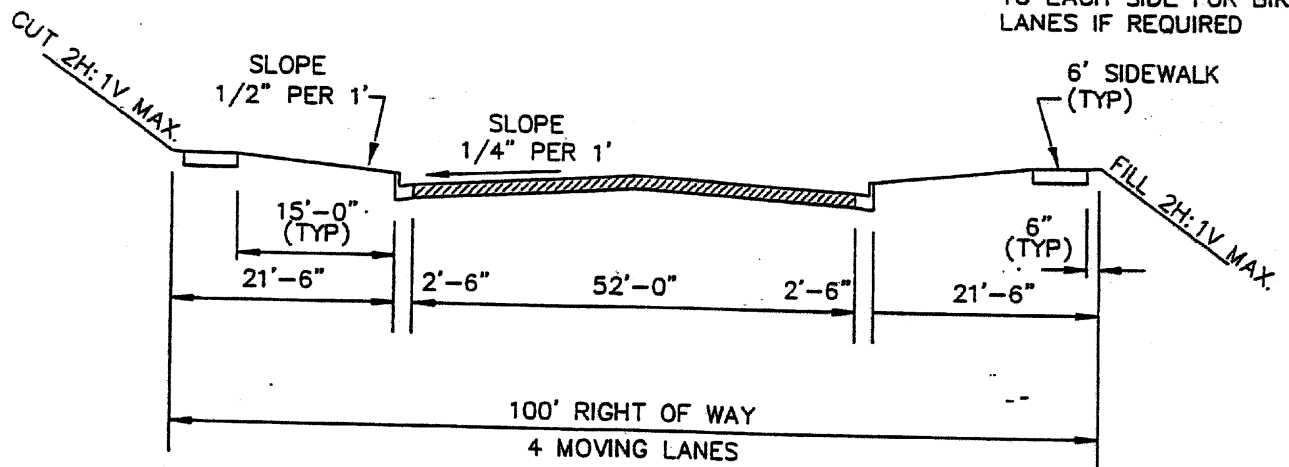
DATE: JUNE 1998

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



### COMMERCIAL COLLECTOR STREETS

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



### COMMERCIAL ARTERIAL STREETS



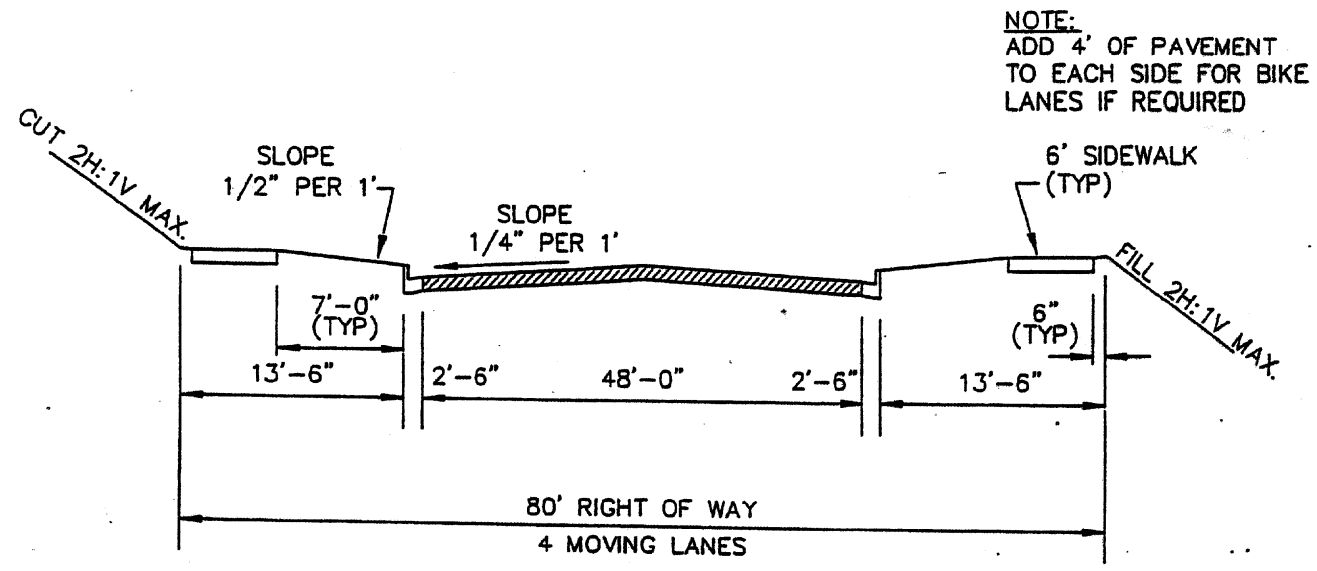
**City of West Point**

### TYPICAL ROADWAY DESIGN

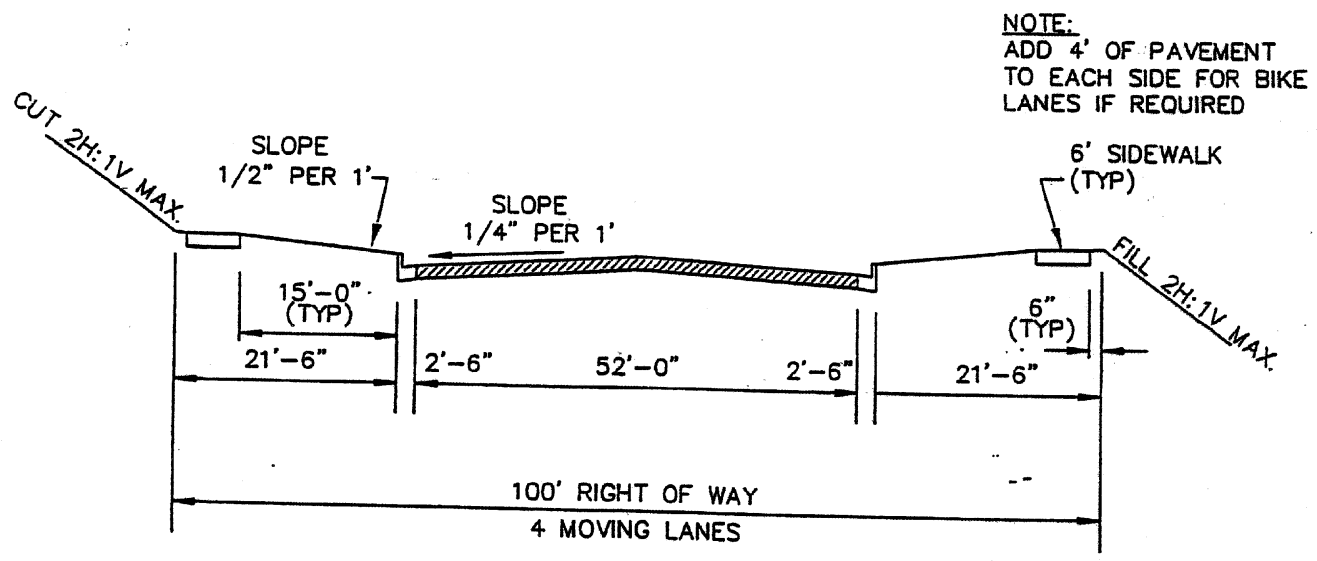
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



COMMERCIAL COLLECTOR STREETS



COMMERCIAL ARTERIAL STREETS

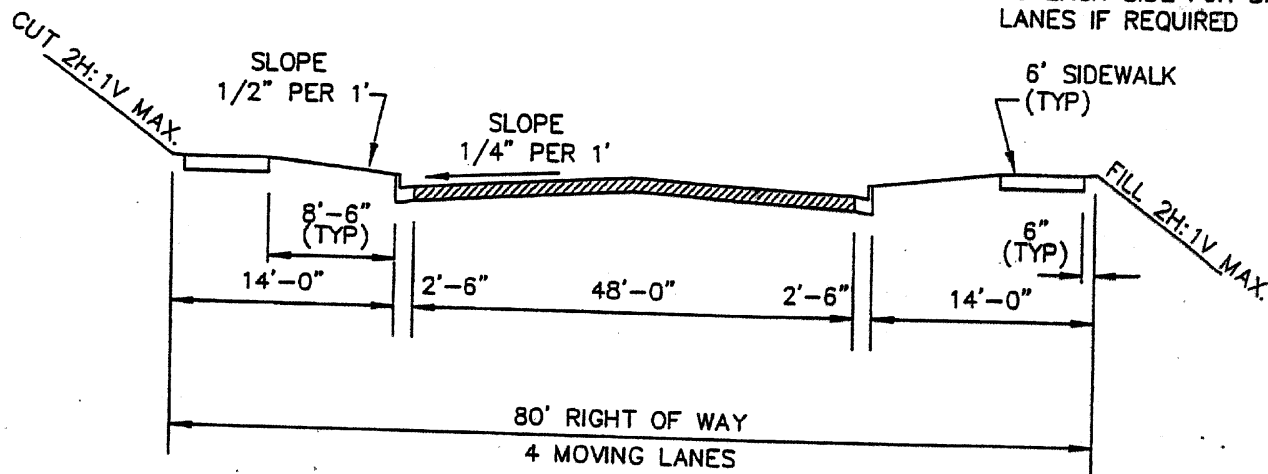


**City of West Point**

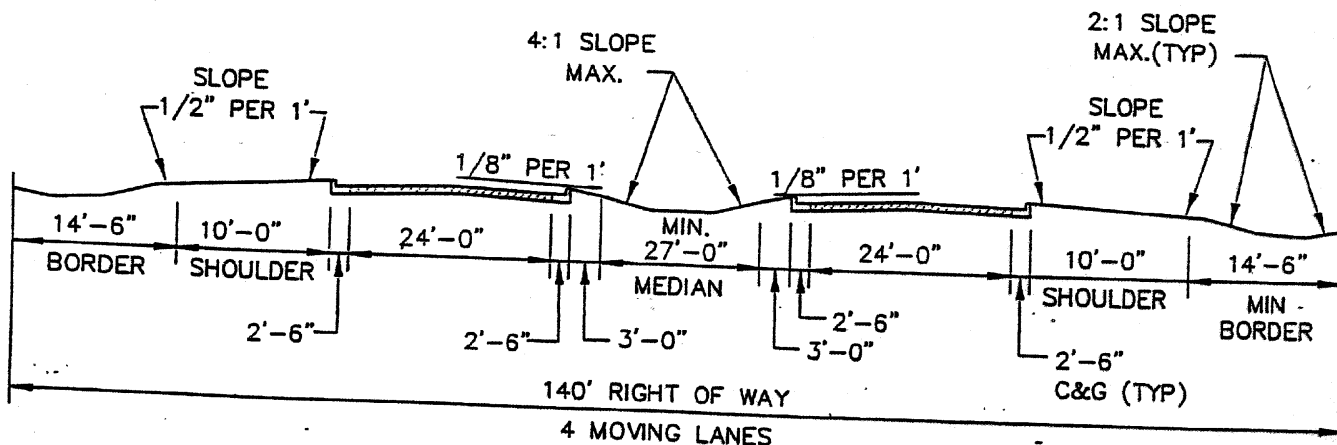
**TYPICAL ROADWAY DESIGN**

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE  
DATE: JUNE 1998

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



# 80' R/W INDUSTRIAL STREETS



# PARKWAY



City of West Point

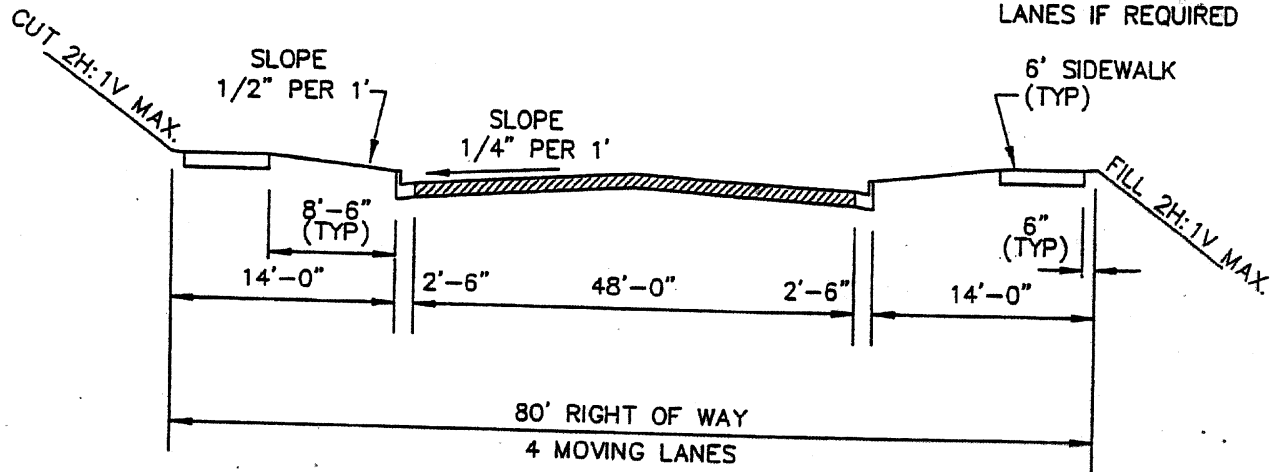
## TYPICAL ROADWAY DESIGN

STANDARD DEVELOPMENT DETAILS

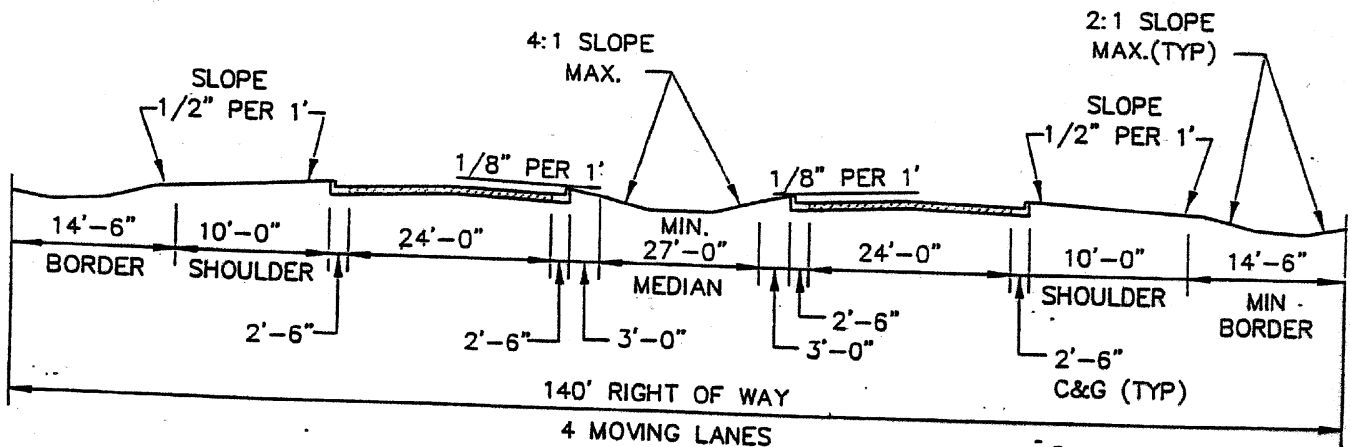
SCALE: NONE

DATE: JUNE 1998

NOTE:  
ADD 4' OF PAVEMENT  
TO EACH SIDE FOR BIKE  
LANES IF REQUIRED



### 80' R/W INDUSTRIAL STREETS



### PARKWAY



City of West Point

### TYPICAL ROADWAY DESIGN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998





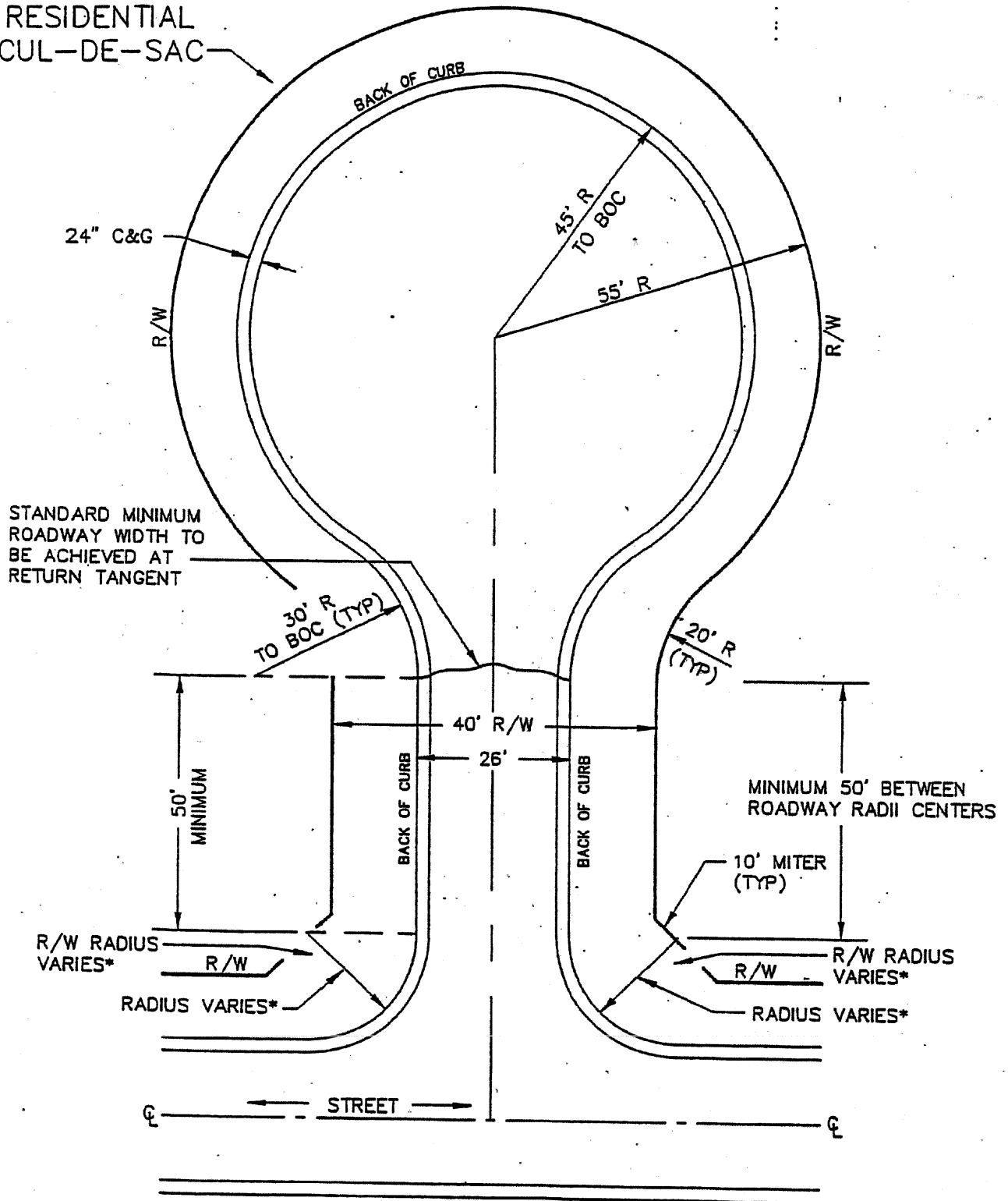
MINOR RESIDENTIAL CUL-DE-SAC

## STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998

MINOR  
RESIDENTIAL  
CUL-DE-SAC



\* SEE MINIMUM INTERSECTION RADII REQUIREMENTS IN DEVELOPMENT REGULATIONS.

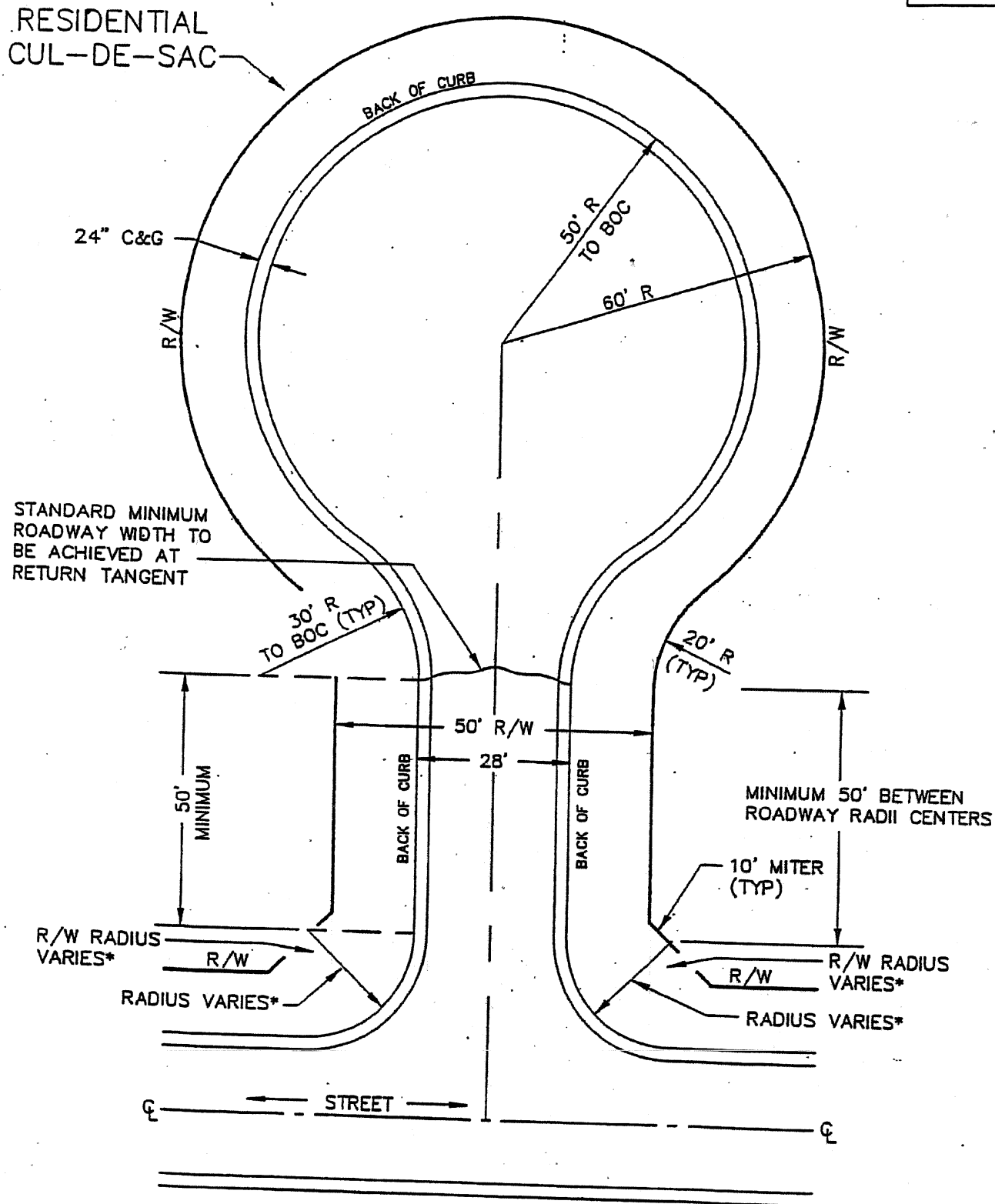


City of West Point

MINOR RESIDENTIAL CUL-DE-SAC

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE  
DATE: JUNE 1998

RESIDENTIAL  
CUL-DE-SAC



\* SEE MINIMUM INTERSECTION RADII REQUIREMENTS IN DEVELOPMENT REGULATIONS.



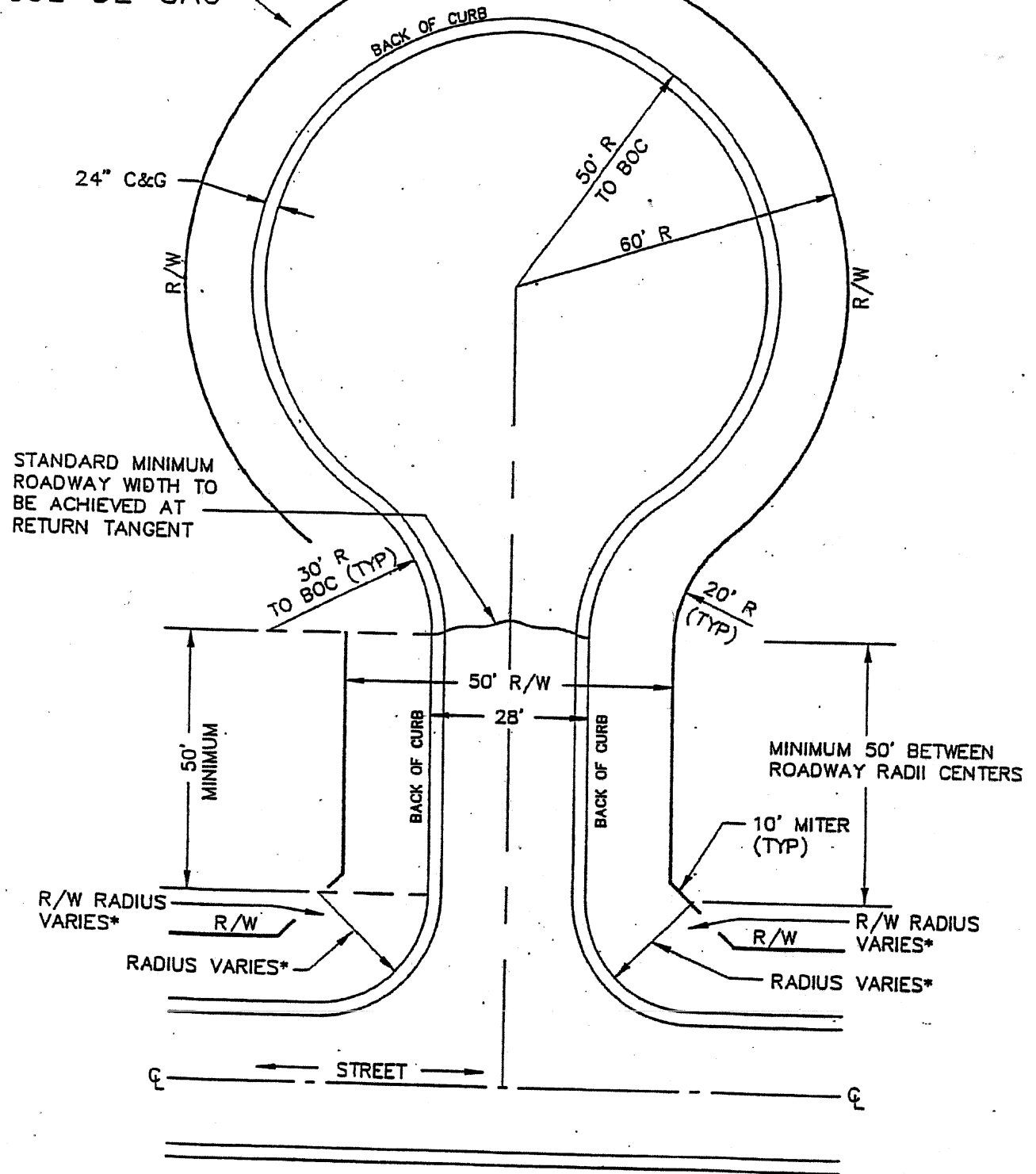
City of West Point

RESIDENTIAL CUL-DE-SAC

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE

DATE: JUNE 1998

RESIDENTIAL  
CUL-DE-SAC



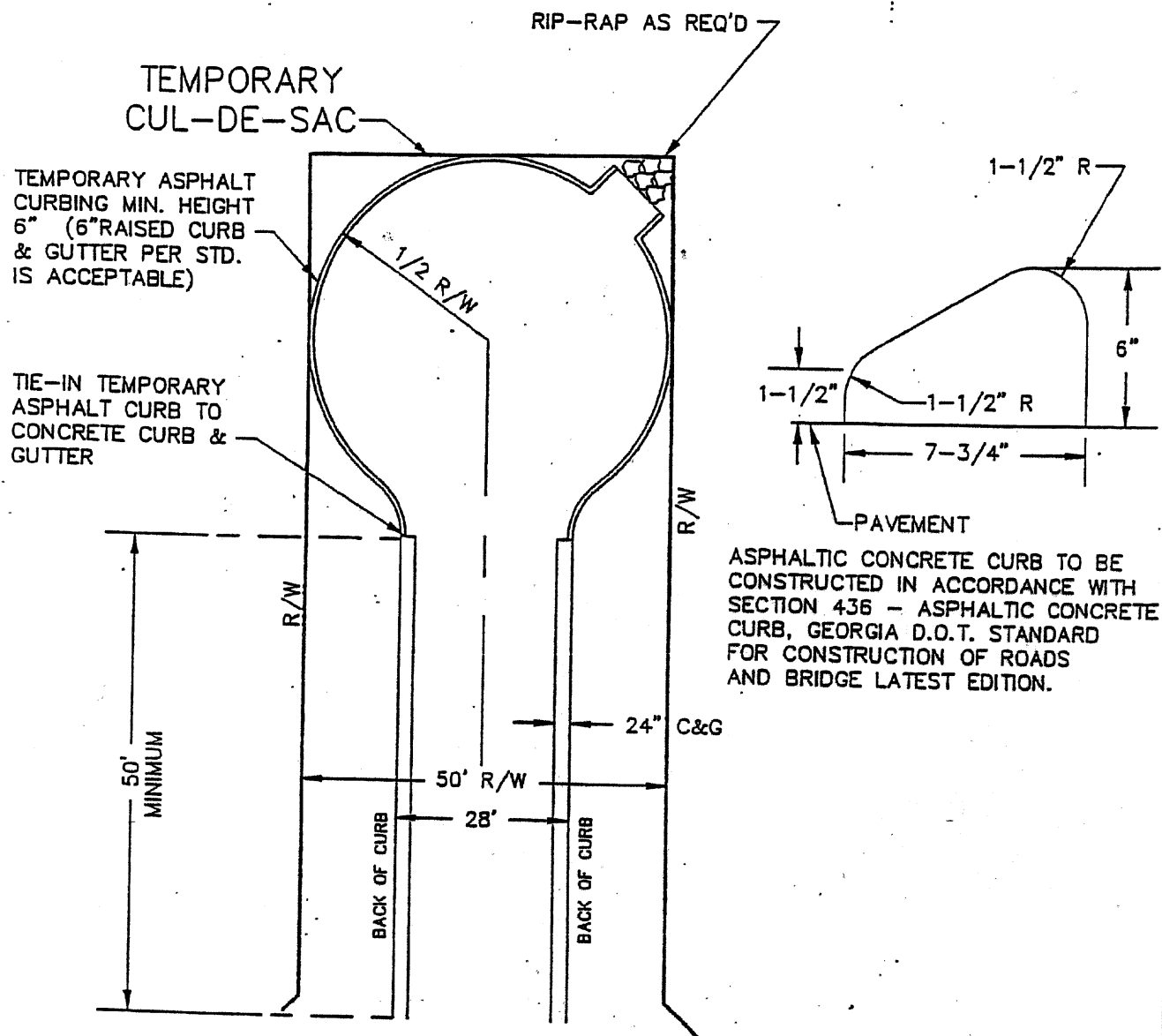
\* SEE MINIMUM INTERSECTION RADII REQUIREMENTS IN DEVELOPMENT REGULATIONS.



City of West Point

RESIDENTIAL CUL-DE-SAC

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE  
DATE: JUNE 1998



1. TEMPORARY ASPHALT CURBING IS TO BE INSTALLED ON TEMPORARY CUL-DE-SAC
2. LOCATION AND WIDTH OF FLUME VARIES
3. CROWN CUL-DE-SAC WITH 1/4" / FT. SLOPE.



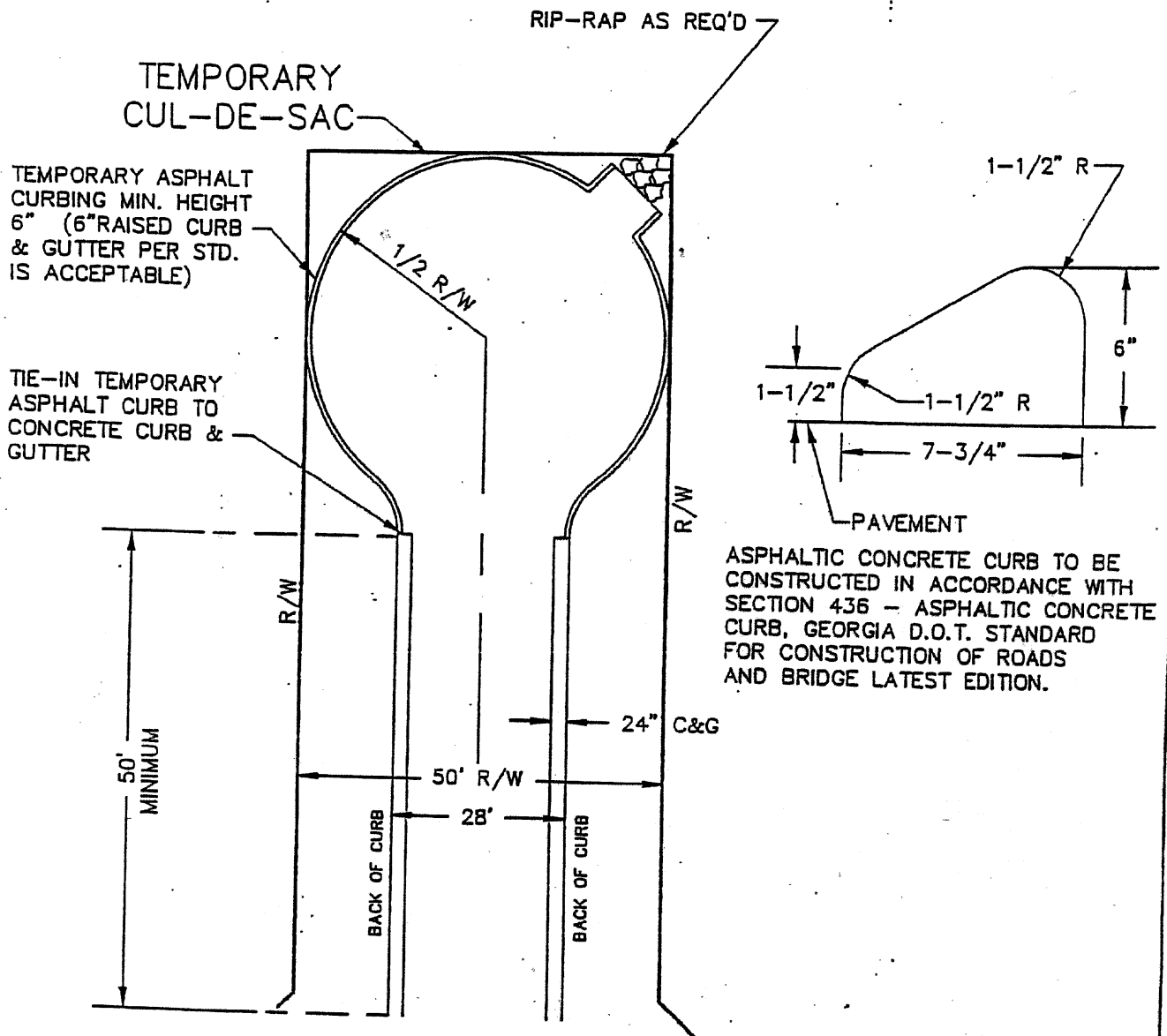
City of West Point

TEMPORARY CUL-DE-SAC

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



1. TEMPORARY ASPHALT CURBING IS TO BE INSTALLED ON TEMPORARY CUL-DE-SAC
2. LOCATION AND WIDTH OF FLUME VARIES
3. CROWN CUL-DE-SAC WITH 1/4" / FT. SLOPE.



City of West Point

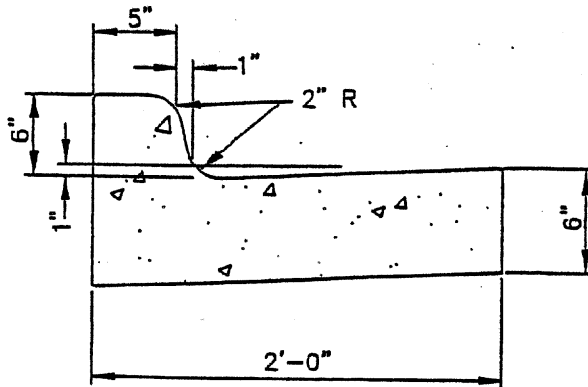
## TEMPORARY CUL-DE-SAC

STANDARD DEVELOPMENT DETAILS

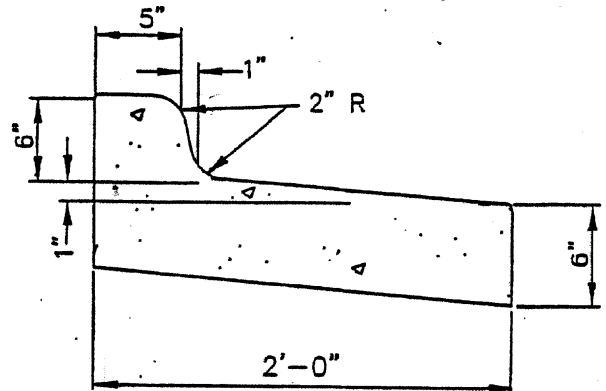
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DATE: JUNE 1998

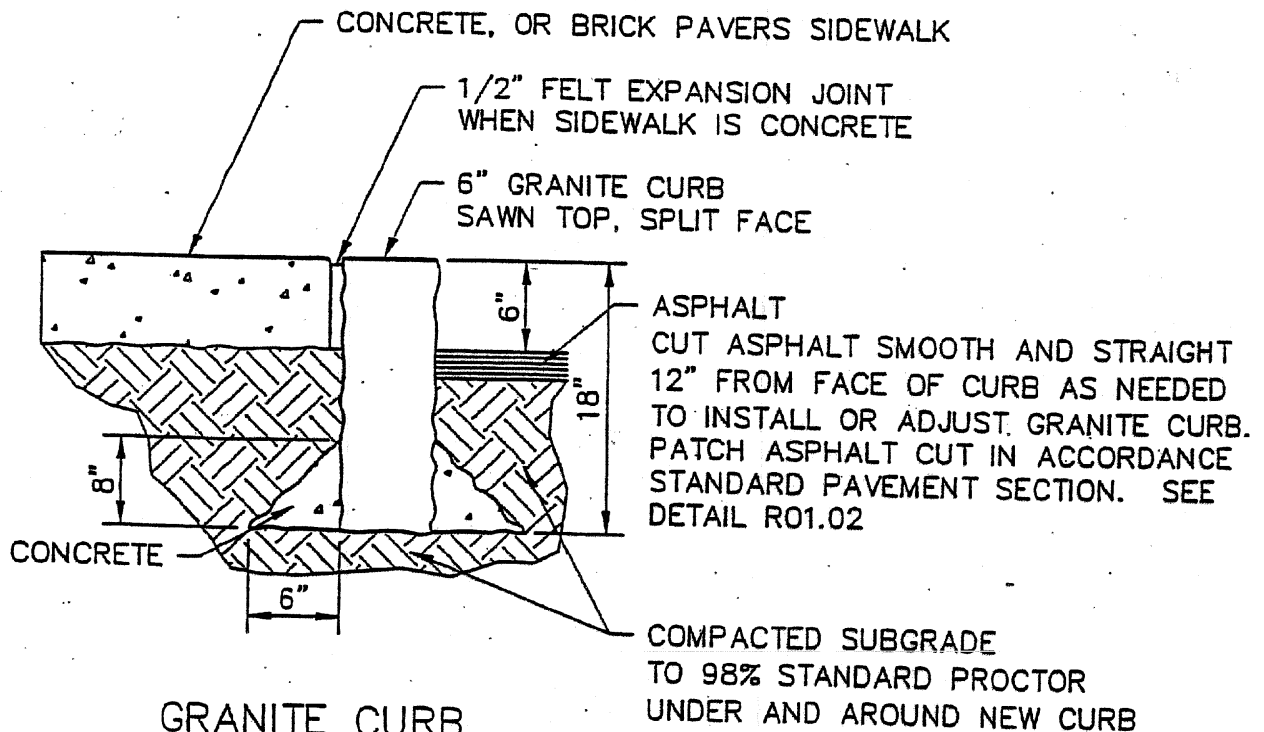
**TYPE "A"**  
(USE WHEN FLOW  
IS TOWARD CURB)



**TYPE "B"**  
(USE WHEN FLOW IS  
AWAY FROM CURB)



**STANDARD**



**GRANITE CURB**

**NOTES:**

1. CURB & GUTTER WITHIN GEORGIA D.O.T. R/W TO BE 30" AND CONSTRUCTED TO GA. D.O.T. STANDARDS
2. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO GA. D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGE, LATEST EDITION.

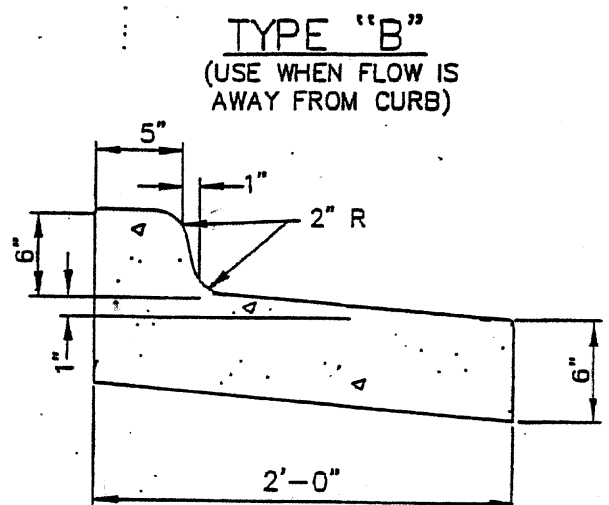
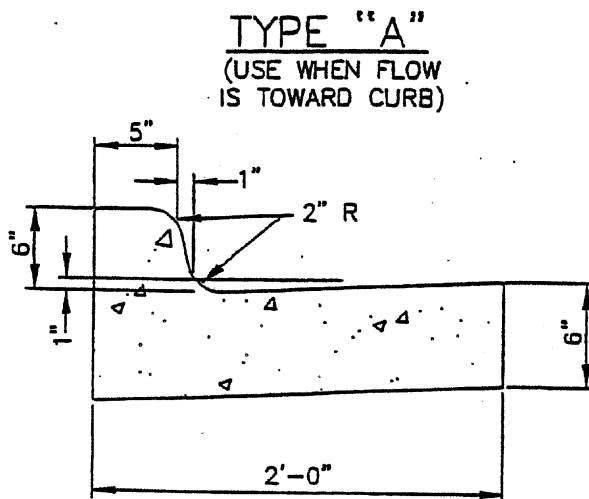


**City of West Point**

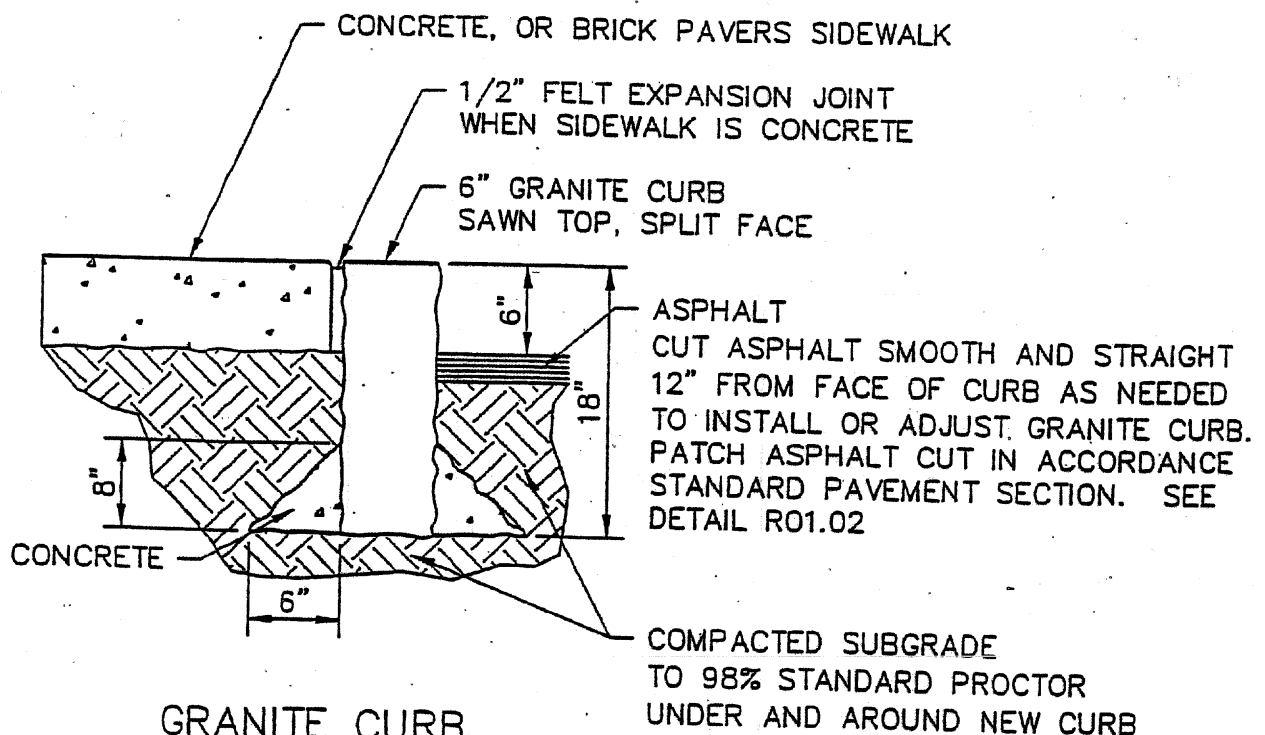
**CURB & GUTTER**

STANDARD DEVELOPMENT DETAILS

SCALE: NONE



## STANDARD



## GRANITE CURB

### NOTES:

1. CURB & GUTTER WITHIN GEORGIA D.O.T. R/W TO BE 30" AND CONSTRUCTED TO GA. D.O.T. STANDARDS
2. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO GA. D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGE, LATEST EDITION.



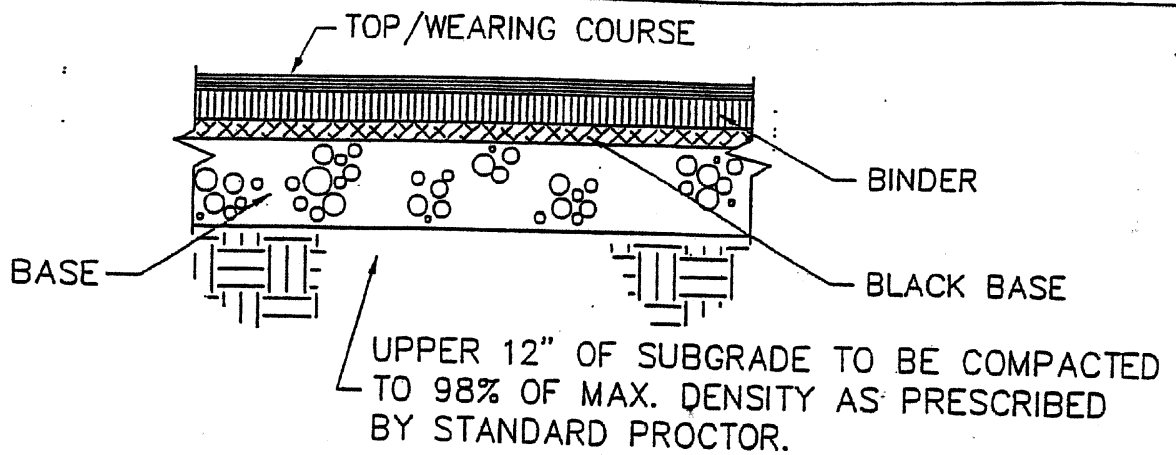
**City of West Point**

**CURB & GUTTER**

STANDARD DEVELOPMENT DETAILS

SCALE: NONE





|                          | MINOR<br>RESIDENTIAL | RESIDENTIAL | RESIDENTIAL<br>COLLECTOR | COMMERCIAL<br>LOCAL |
|--------------------------|----------------------|-------------|--------------------------|---------------------|
| 1-1/2" "E" TOP           | X                    | X           | X                        | X                   |
| 1-1/2" "B" BINDER        |                      |             |                          |                     |
| 2" "B" BINDER            | X                    | X           |                          |                     |
| 3" "B" BINDER            |                      |             | X                        | X                   |
| 6" GRADED AGGREGATE BASE | X                    | X           |                          |                     |
| 8" GRADED AGGREGATE BASE |                      |             | X                        | X                   |

|                           | INDUSTRIAL<br>80' R/W | COMMERCIAL<br>COLLECTOR | COMMERCIAL<br>ARTERIAL | PARKWAY |
|---------------------------|-----------------------|-------------------------|------------------------|---------|
| 1-1/2" "E" TOP            | X                     | X                       | X                      | X       |
| 1-1/2" "B" BINDER         |                       |                         |                        |         |
| 2" "B" BINDER             |                       |                         |                        |         |
| 3" "B" BINDER             | X                     | X                       | X                      |         |
| 4" BLACK BASE             | X                     | X                       | X                      | X       |
| 6" GRADED AGGREGATE BASE  |                       |                         |                        | X       |
| 8" GRADED AGGREGATE BASE  | X                     | X                       |                        |         |
| 10" GRADED AGGREGATE BASE |                       |                         | X                      | X       |

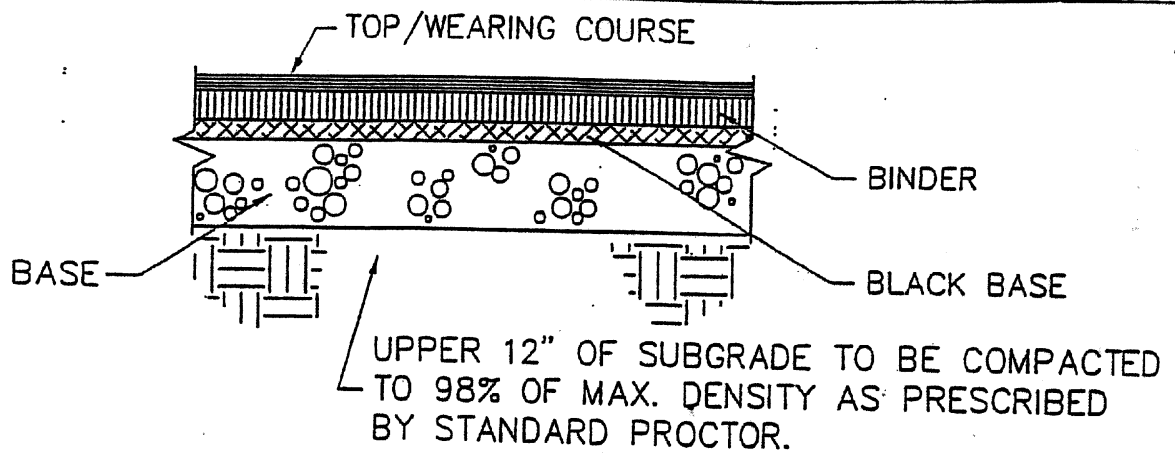
NOTE: ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO GA. D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, LATEST EDITION.



**City of West Point**

## PAVEMENT SECTION SPECIFICATIONS

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE



|                          | MINOR<br>RESIDENTIAL | RESIDENTIAL | RESIDENTIAL<br>COLLECTOR | COMMERCIAL<br>LOCAL |
|--------------------------|----------------------|-------------|--------------------------|---------------------|
| 1-1/2" "E" TOP           | X                    | X           | X                        | X                   |
| 1-1/2" "B" BINDER        |                      |             |                          |                     |
| 2" "B" BINDER            | X                    | X           |                          |                     |
| 3" "B" BINDER            |                      |             | X                        | X                   |
| 6" GRADED AGGREGATE BASE | X                    | X           |                          |                     |
| 8" GRADED AGGREGATE BASE |                      |             | X                        | X                   |

|                           | INDUSTRIAL<br>80' R/W | COMMERCIAL<br>COLLECTOR | COMMERCIAL<br>ARTERIAL | PARKWAY |
|---------------------------|-----------------------|-------------------------|------------------------|---------|
| 1-1/2" "E" TOP            | X                     | X                       | X                      | X       |
| 1-1/2" "B" BINDER         |                       |                         |                        |         |
| 2" "B" BINDER             |                       |                         |                        |         |
| 3" "B" BINDER             | X                     | X                       | X                      | X       |
| 4" BLACK BASE             | X                     | X                       | X                      | X       |
| 6" GRADED AGGREGATE BASE  |                       |                         |                        |         |
| 8" GRADED AGGREGATE BASE  | X                     | X                       |                        |         |
| 10" GRADED AGGREGATE BASE |                       |                         | X                      | X       |

NOTE: ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO GA. D.O.T. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, LATEST EDITION.

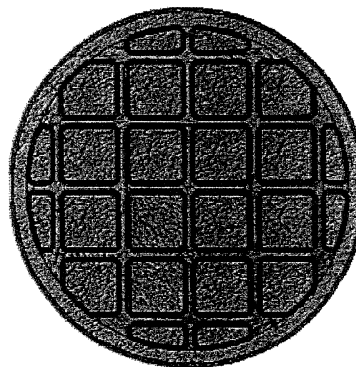
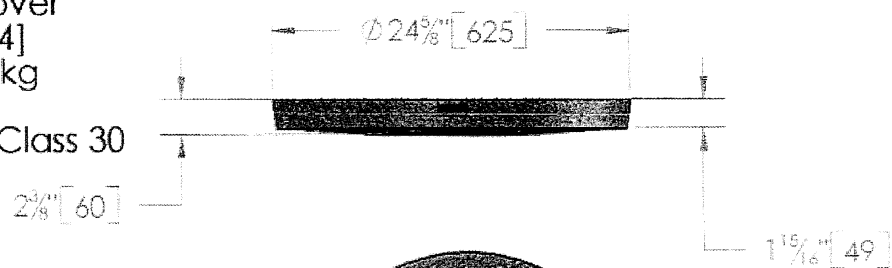


**City of West Point**

## PAVEMENT SECTION SPECIFICATIONS

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE

AJ633C Cover  
24 5/8" [624]  
150 lbs 68 kg  
Gray Iron  
ASTM A48 Class 30



[www.muellercanada.com](http://www.muellercanada.com)  
Certifiée ISO 9001: 2000

**Mueller Canada**

# LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS

[illegible]

## CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

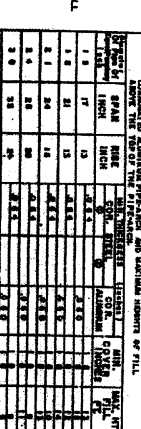


DETAIL "D"

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



TABLE NO. 2 (PIPE-ARCH)

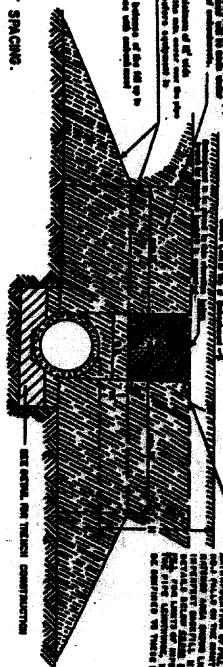
[illegible][illegible]

City of West Point

SCALE: NONE DATE: JUNE 11

**DATE: JUNE 1998**

## LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS

[illegible]

## CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL



to make.  
By also not entering, students save the extra dollars.  
For multiple lanes at G.M. Plaza with more than 20 parking  
5 days he increased enough to avoid parking at G.M. Plaza during  
location of hotel and location should be discussed before placement

MEMORIS OVER 20 FT.)



NOTE: THE PIPE SHALL BE ORDERED TO LINE AND SPACE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSIBLE MATERIAL. (Use specified Excavation) A MINIMUM OF 6" BELOW THE PIPE

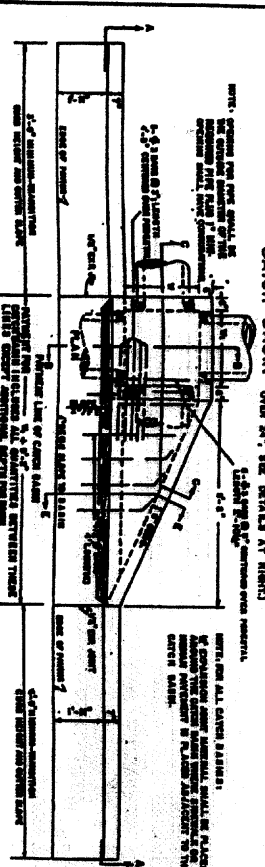
**DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS**

[illegible][illegible][illegible]

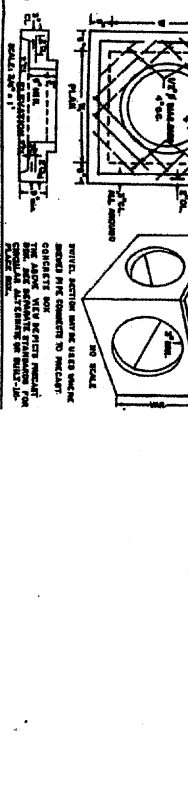
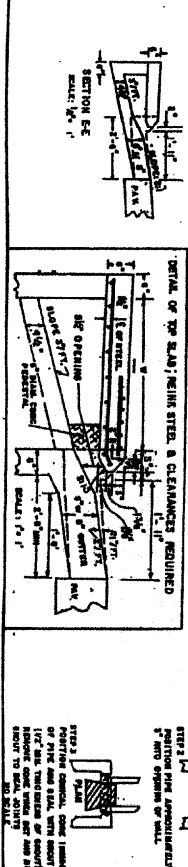
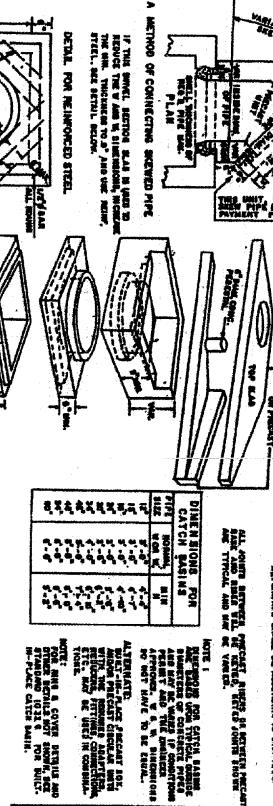
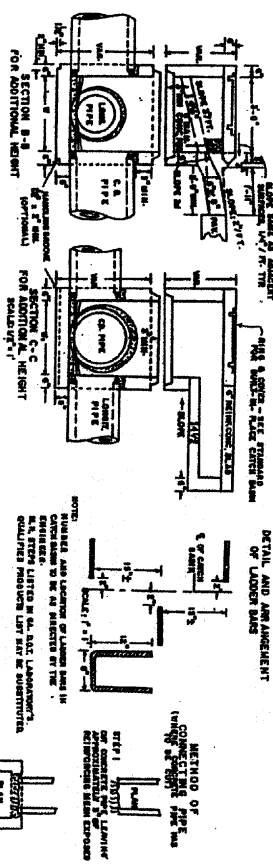
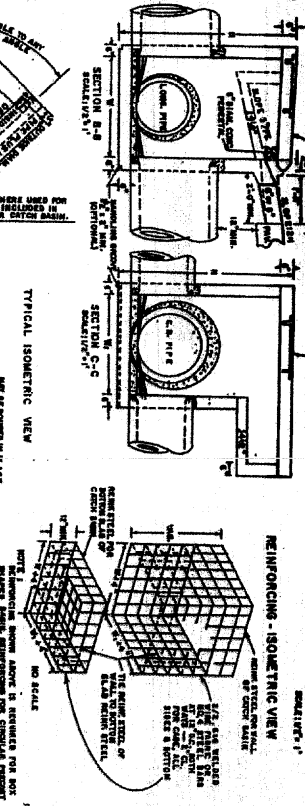
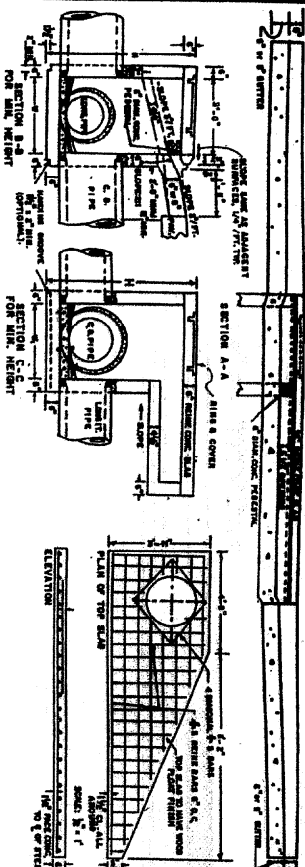
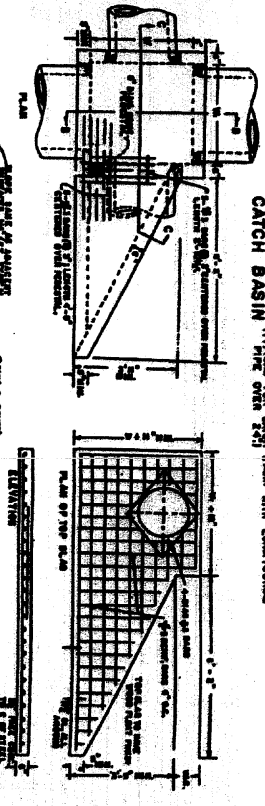
| TABLE NO. 3 - INFORMATION ONLY |                            |
|--------------------------------|----------------------------|
| Core Metal Thickness           | Equivalent Steel Thickness |
| STEEL                          |                            |
| 0.060                          | 10                         |
| 0.070                          | 14                         |
| 0.100                          | 12                         |
| 0.120                          | 10                         |
| 0.180                          | 8                          |
| ALUMINUM                       |                            |
| 0.060                          | 10                         |
| 0.070                          | 14                         |
| 0.100                          | 12                         |
| 0.120                          | 10                         |
| 0.180                          | 8                          |

Alternate Spec - Rite Combination for Pipe-Orthen, having equal parity, to that shown, may be substituted if listed in AASHTO M-35 or AASHTO M-188.

CATCH BASIN (UP CATCH BASIN HAS LONGER VERTICAL PIPE OVER 24" SEE DETAILS AT RIGHT)



CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONG TYPICAL)

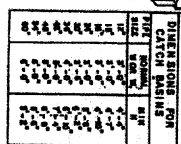


City of West Point

STANDARD 1033G CATCH BASIN

STANDARD DEVELOPMENT DETAILS  
DATE: JUNE 1998

PHYSICAL FORM CRYSTAL IN AQUEOUS SOLUTION : CONSTITUTIONAL

[illegible]

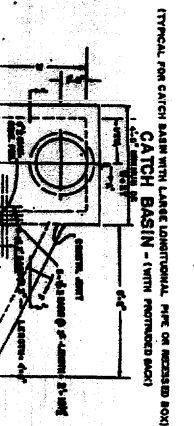
**City of West Point**

### STANDARD 1033G CATCH BASIN

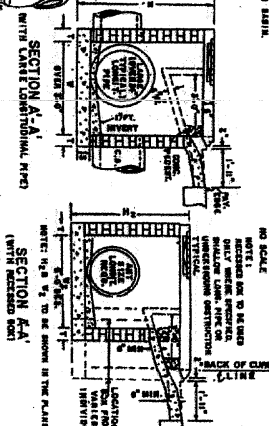
STANDARD DEVELOPMENT DETAILS  
SCALE: NONE DATE: JUNE 1998



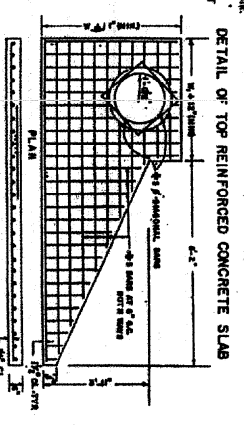
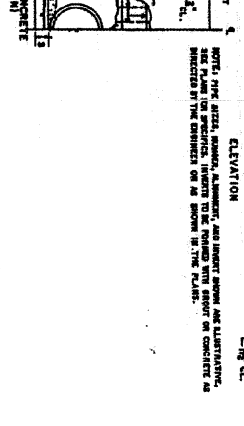
# ABSTRACT FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR ACCESSIBLE BOX



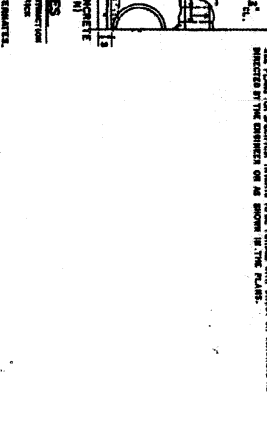
**PART PLAN**



2000

 $\frac{1}{2} \cdot \frac{1}{2}$ 

3/4" x STEEL LAGGER BAR



**City of West Point**

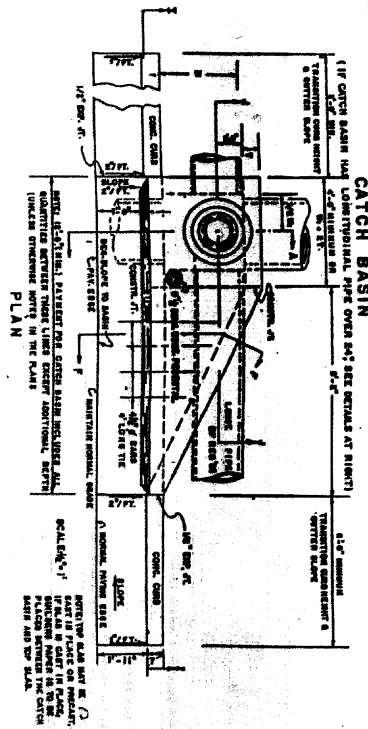
STANDARD DEVELOPMENT DETAILS  
SCALE: NONE DATE: JUNE 1998

**DATE: JUNE 1998**



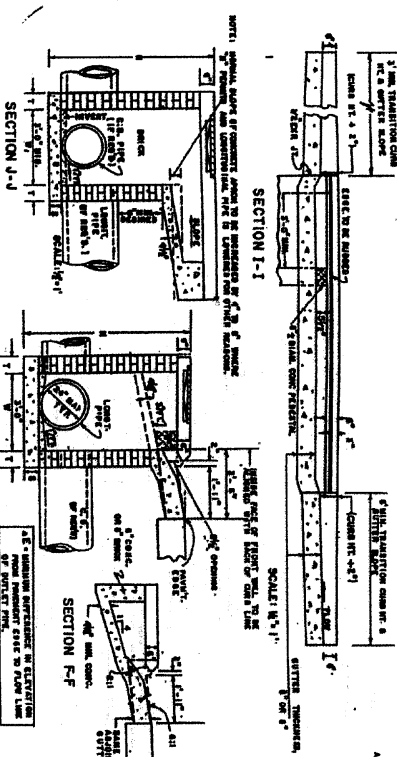
# CATCH BASIN

(1) CATCH BASIN HAS CONVENTIONAL PIPE OVER 48" SEE DETAILS AT RIGHT)

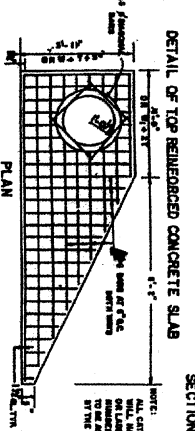


## PLAN

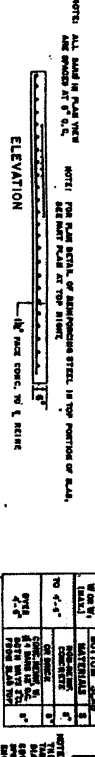
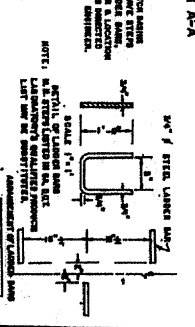
## SECTION I-I



## SECTION J-J



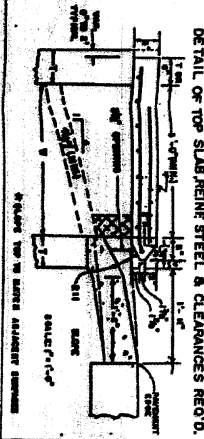
## SECTION A-A



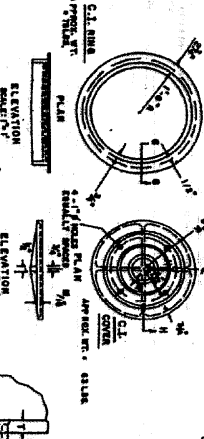
## PLAN

## ELEVATION

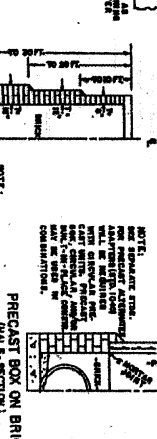
# DETAIL OF TOP SLAB REINFORCING STEEL & CLEARANCES REQ'D.



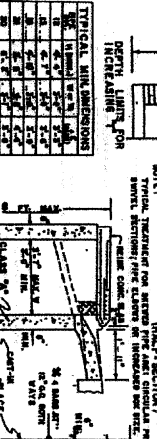
## CASTING DETAILS



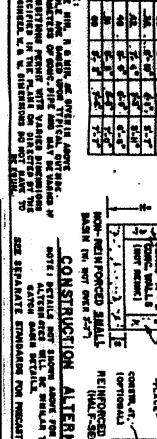
## SECTION I-I



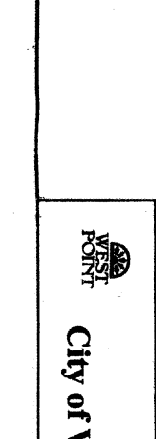
## SECTION J-J



## SECTION A-A



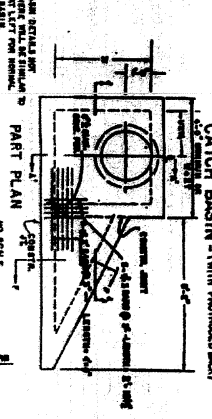
## SECTION J-J



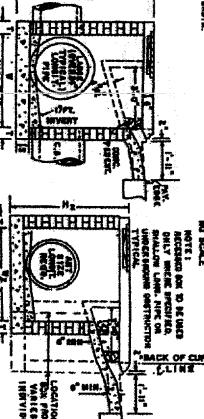
## SECTION A-A



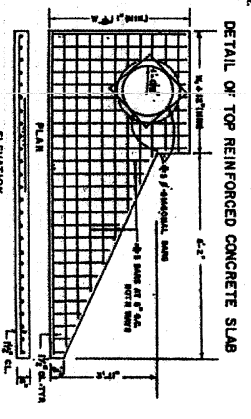
(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE ON RECESSED BOX)



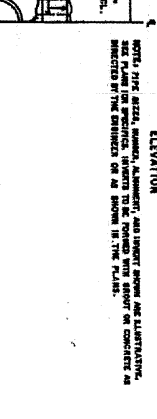
## PLAN



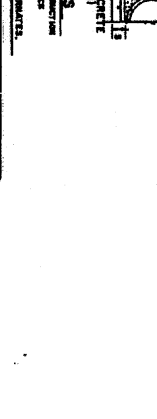
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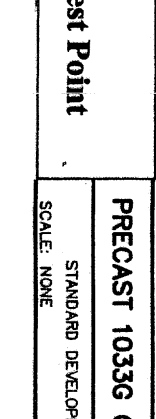
## SECTION J-J



## SECTION A-A



## SECTION J-J



## SECTION A-A



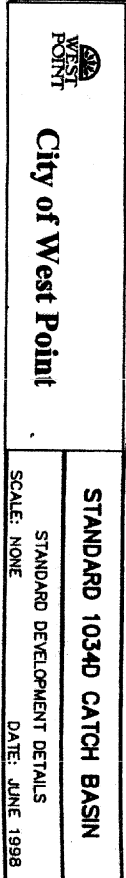
City of West Point

PRECAST 1033G CATCH BASIN

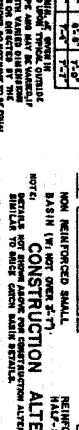
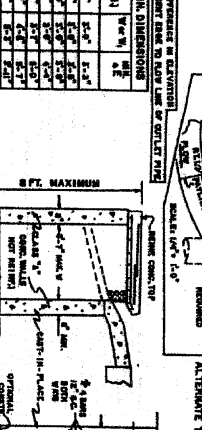
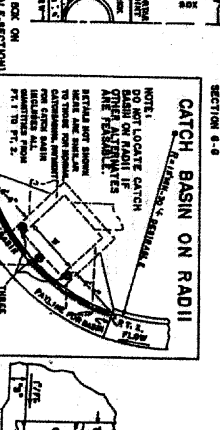
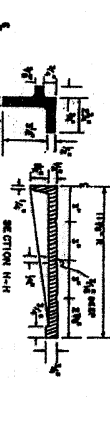
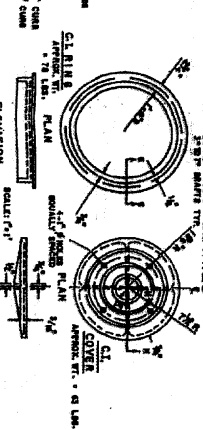
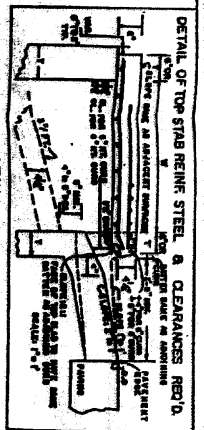
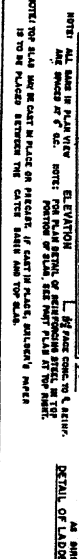
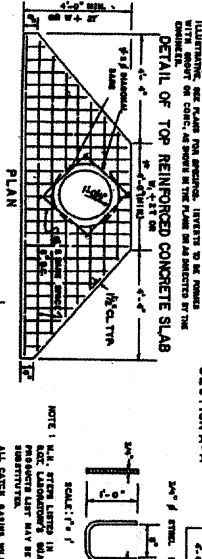
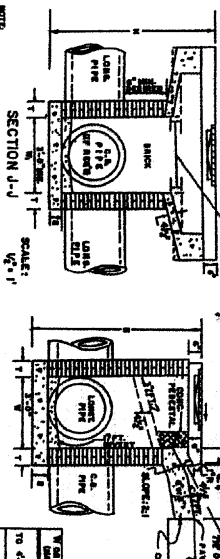
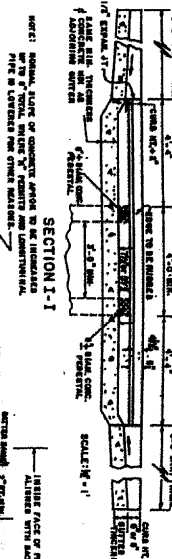
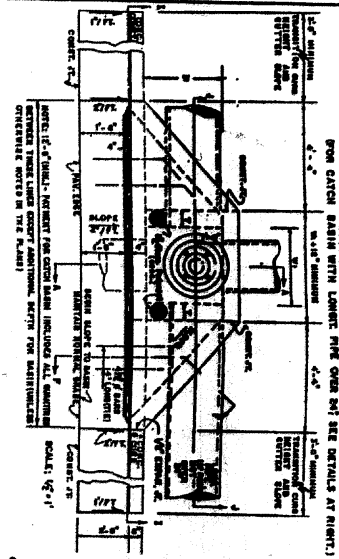
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



CATCH BASIN



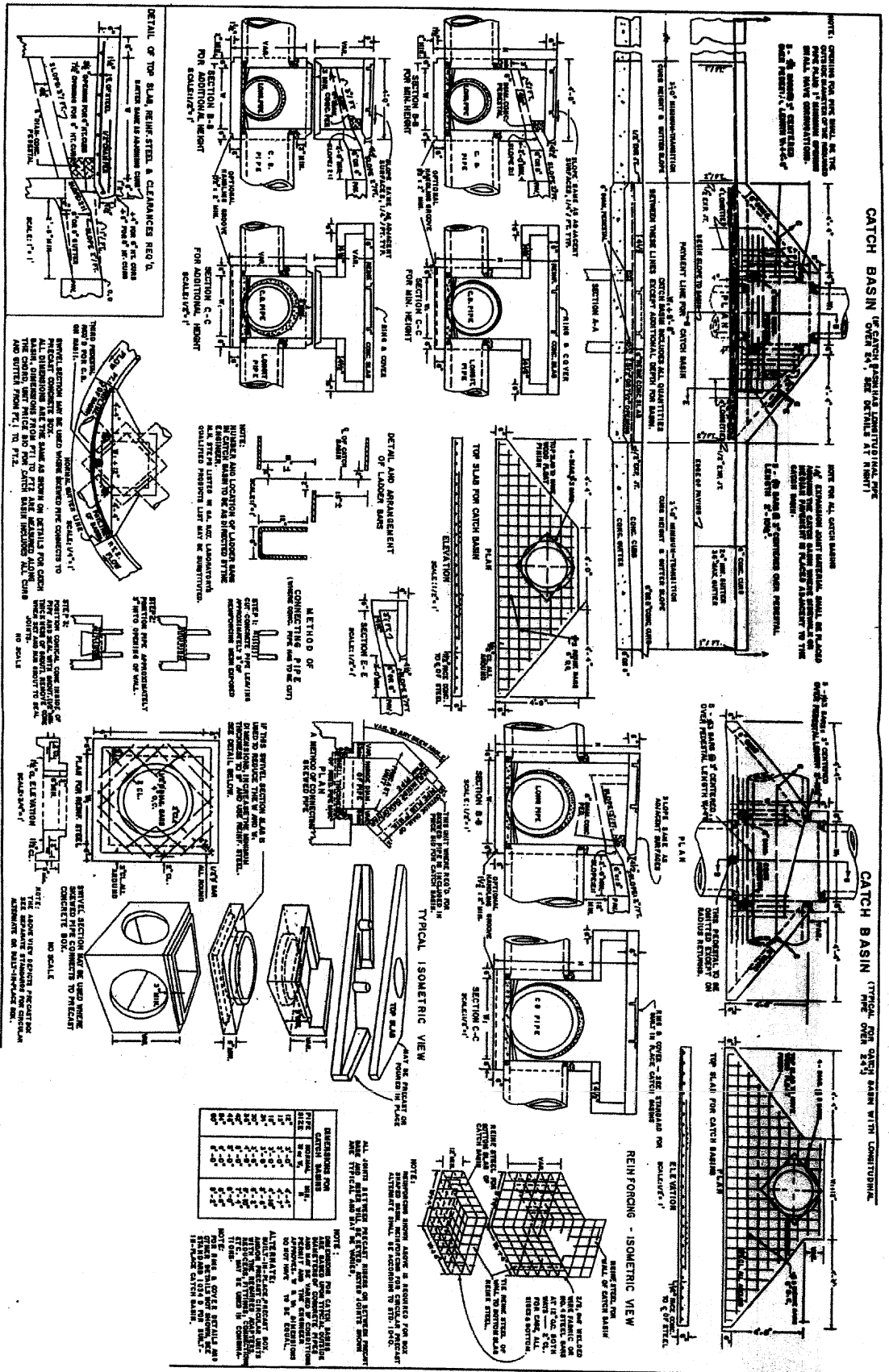
City of West Point

STANDARD 10340 CATCH BASIN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



**WEST  
POINT**

**City of West Point**

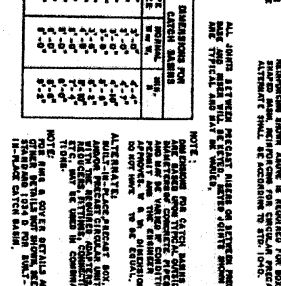
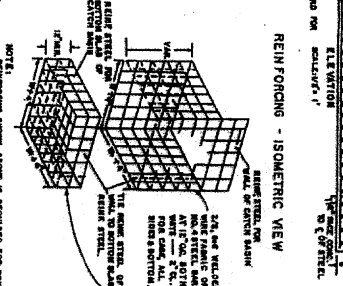
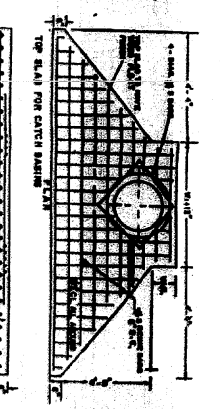
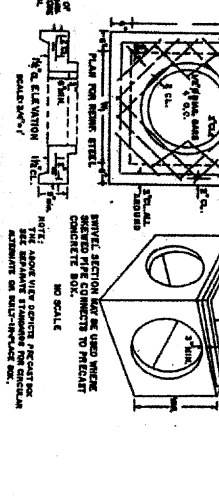
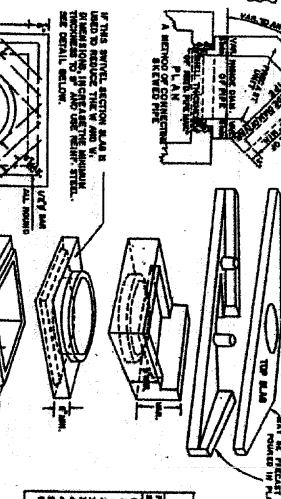
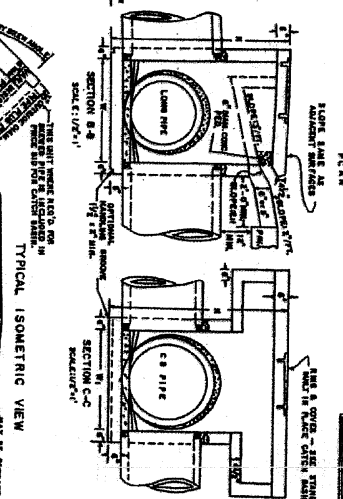
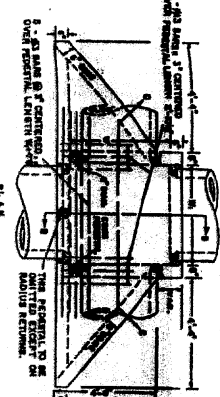
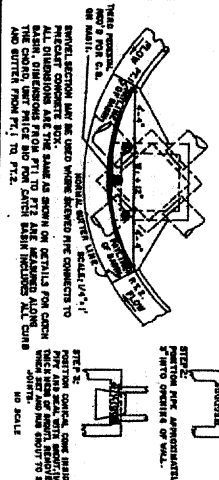
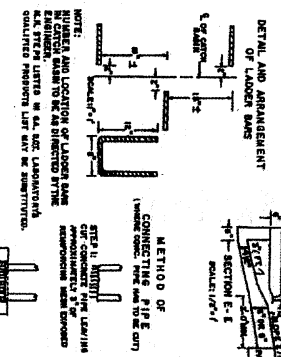
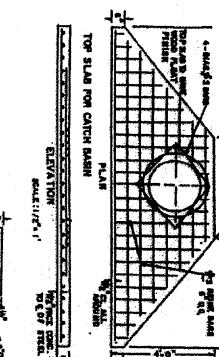
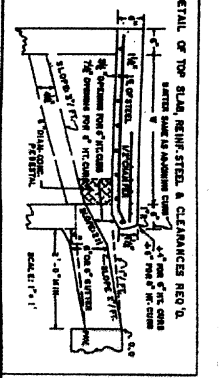
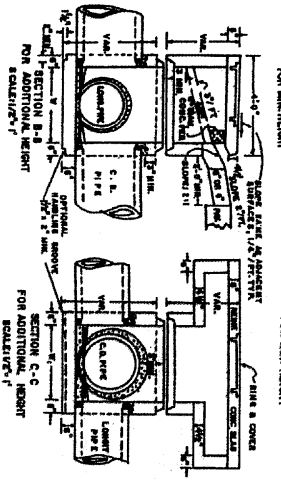
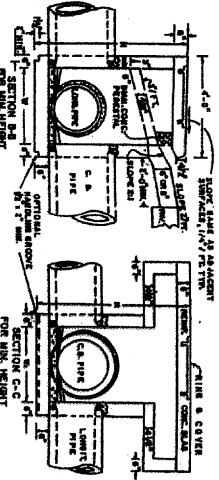
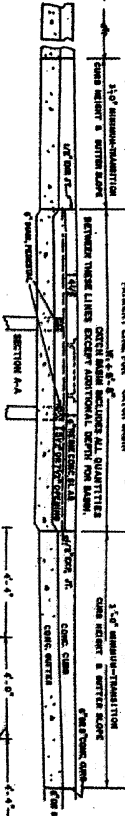
# PRECAST 1034D CATCH BASIN

## STANDARD DEVELOPMENT DETAILS

**SCALE: NONE**

**DATE: JUNE 1998**

NOTE FOR ALL CATCH BASINS  
1.4" EXAMINATION HOOT MATERIAL SHALL BE PLACED  
UNDER THE CATCH BASIN WHERE SIGNIFICANT OR  
REPEATING PROBLEMS ARE PLACED ADJACENT TO THE  
CATCH BASIN.



| DIMENSIONS FOR<br>CATCH BARNS |                  |                |
|-------------------------------|------------------|----------------|
| PIPE<br>SIZE                  | NORMAL<br>ROW W. | MIN.<br>ROW W. |
| 12"                           | 3'-0"            | 4'-7"          |
| 14"                           | 3'-0"            | 4'-10"         |
| 16"                           | 3'-0"            | 5'-0"          |
| 20"                           | 3'-0"            | 5'-8"          |
| 24"                           | 3'-0"            | 6'-2"          |
| 36"                           | 4'-0"            | 7'-0"          |
| 48"                           | 5'-0"            | 8'-4"          |
| 60"                           | 6'-0"            | 9'-5"          |

ALL JOINTS BETWEEN PRECAST ALUMINUM OR STEEL MEMBERS SHALL BE BOLTED TOGETHER USING A687 GRADE 8 BOLT AND NUTS WITH WASHERS AND CONICAL WASHERS. THE BOLTING SHALL BE ACCORDING TO STD. 1040.

REINFORCING BARS ABOVE IS REQUIRED FOR BOX GIRDER TYPE BRIDGE DECK SLAB ON ROLLER SUPPORTS. REINFORCING FOR CURB AND PRECAST ATTACHMENT SHALL BE ACCORDING TO STD. 1040.

BASE AND RISER WILL BE SET INTO EXISTING DENTS FROM ONE TYPICAL AND MAY BE WIDENED.

V.M.

REIN. STEEL FOR SLAB  
BOTTOM M.A.S.  
CATCH BARS

THE REIN. STEEL OF  
WALL TO BOTTOM SLAB  
REIN. STEEL

FOR CASE, ALL  
SIZES & BOTTOM

Diagram illustrating a wire mesh structure, likely a water or catch basin, showing the mesh pattern and the connection to the basin.

ELEVATION  
SCALES = 1"  
1/4" MAX. CONC.  
TO C OF STEEL

REINFORCING - ISOMETRIC VIEW

WITH LONGITUDINAL



**City of West Point**

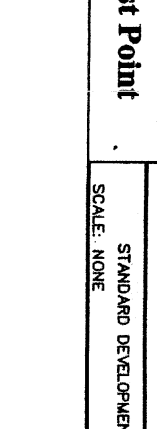
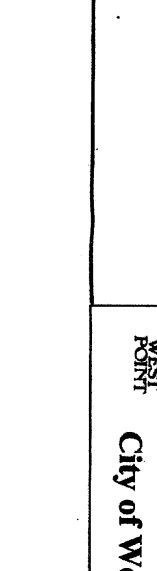
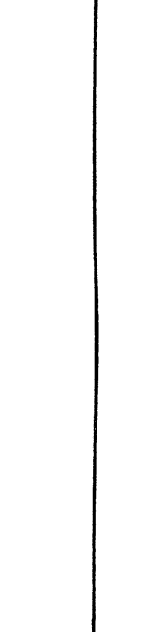
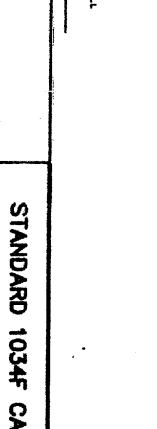
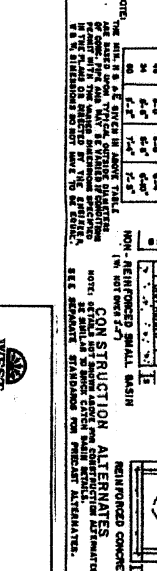
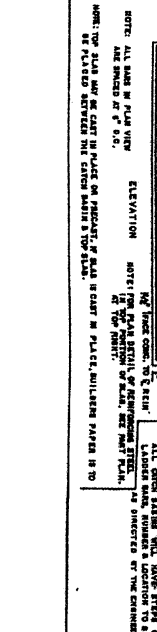
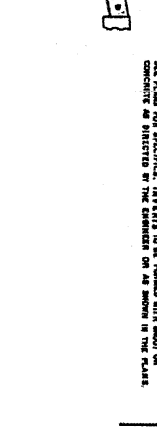
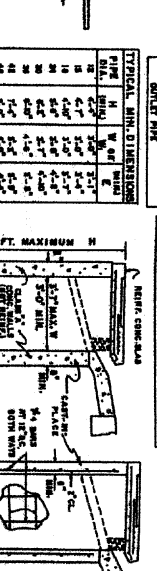
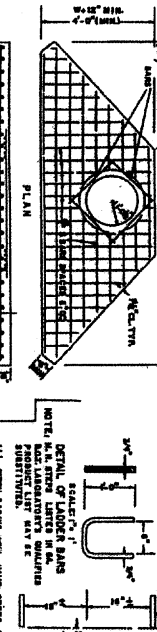
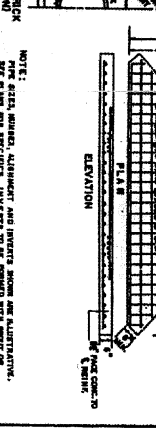
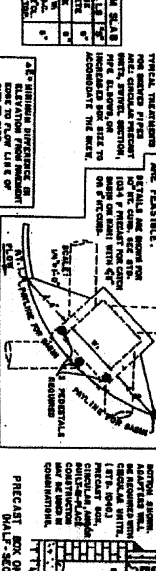
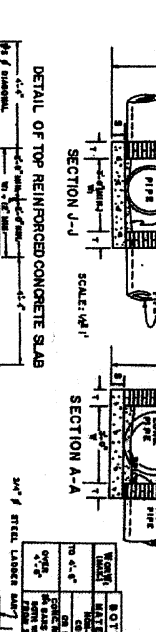
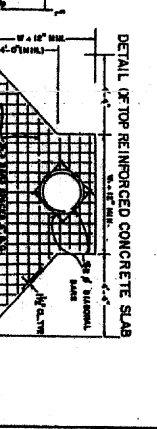
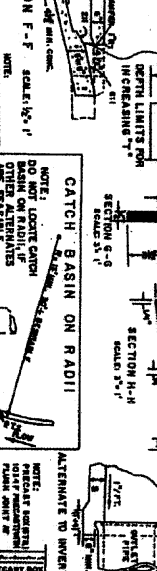
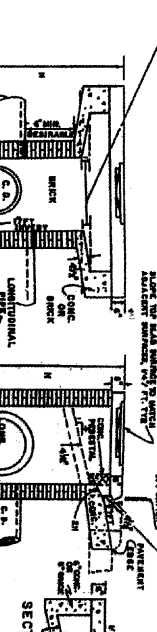
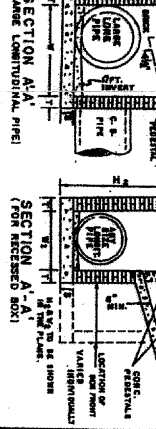
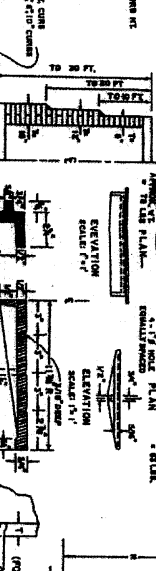
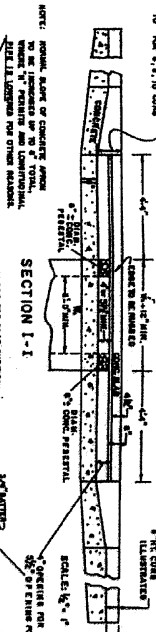
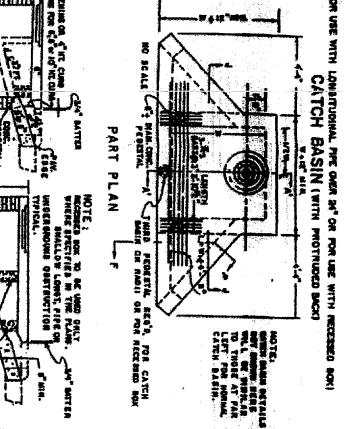
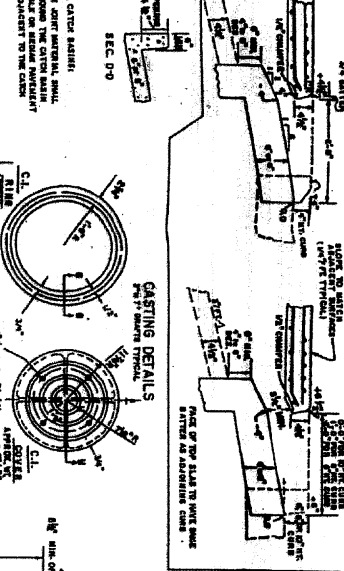
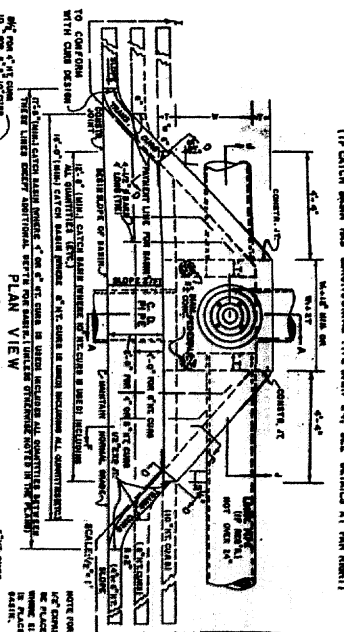
PRECAST 1034D CATCH BASIN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE DATE: JUNE 1

CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 36" SEE DETAILS AT PLAN RIGHT)



**City of West Point**

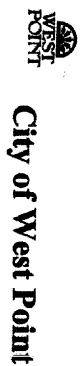
**STANDARD 1034F CATCH BASIN**

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

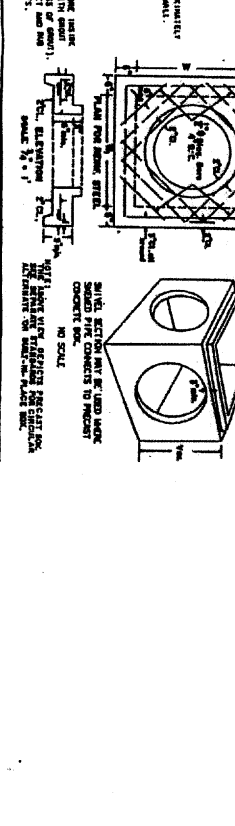
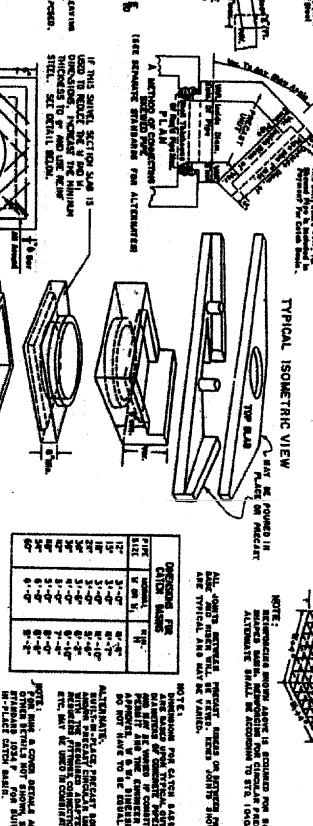
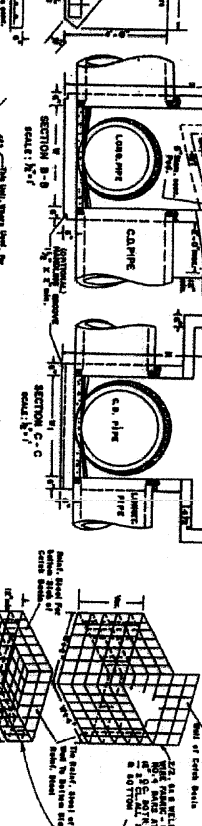
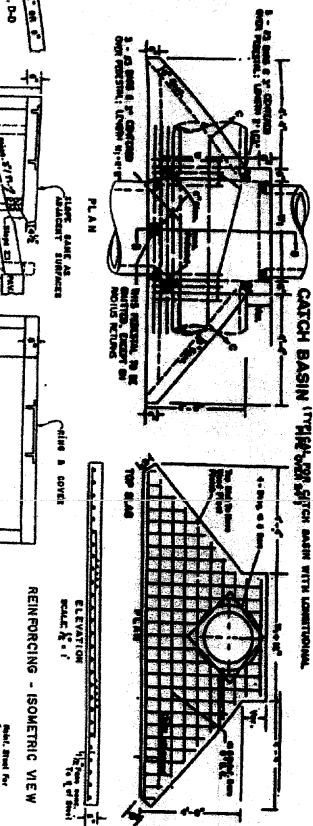
DATE: JUNE 1998





STANDARD 1034F CATCH BASIN

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE      DATE: JUN



| DETERMINES FIRE<br>CAUTION MARKS |                                  |           |
|----------------------------------|----------------------------------|-----------|
| PIRAC<br>B122                    | INCENDIAL<br>W OR W <sub>1</sub> | REF.<br>H |
| 1-2                              | 3-4                              | 8-9       |
| 1-3                              | 3-5                              | 8-10      |
| 1-4                              | 3-6                              | 8-11      |
| 2-3                              | 3-7                              | 9-10      |
| 2-4                              | 3-8                              | 9-11      |
| 2-5                              | 3-9                              | 9-12      |
| 2-6                              | 3-10                             | 9-13      |
| 2-7                              | 3-11                             | 9-14      |
| 2-8                              | 3-12                             | 9-15      |
| 2-9                              | 3-13                             | 9-16      |
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| 2-11                             | 3-15                             | 9-18      |
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| 2-18                             | 3-22                             | 9-25      |
| 2-19                             | 3-23                             | 9-26      |
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| 2-41                             | 3-45                             | 9-48      |
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| 2-76                             | 3-80                             | 9-83      |
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| 2-79                             | 3-83                             | 9-86      |
| 2-80                             | 3-84                             | 9-87      |
| 2-81                             | 3-85                             | 9-88      |
| 2-82                             | 3-86                             | 9-89      |
| 2-83                             | 3-87                             | 9-90      |
| 2-84                             | 3-88                             | 9-91      |
| 2-85                             | 3-89                             | 9-92      |
| 2-86                             | 3-90                             | 9-93      |
| 2-87                             | 3-91                             | 9-94      |
| 2-88                             | 3-92                             | 9-95      |
| 2-89                             | 3-93                             | 9-96      |
| 2-90                             | 3-94                             | 9-97      |
| 2-91                             | 3-95                             | 9-98      |
| 2-92                             | 3-96                             | 9-99      |
| 2-93                             | 3-97                             | 9-100     |
| 2-94                             | 3-98                             | 9-101     |
| 2-95                             | 3-99                             | 9-102     |
| 2-96                             | 3-100                            | 9-103     |
| 2-97                             | 3-101                            | 9-104     |
| 2-98                             | 3-102                            | 9-105     |
| 2-99                             | 3-103                            | 9-106     |
| 2-100                            | 3-104                            | 9-107     |
| 2-101                            | 3-105                            | 9-108     |
| 2-102                            | 3-106                            | 9-109     |
| 2-103                            | 3-107                            | 9-110     |
| 2-104                            | 3-108                            | 9-111     |
| 2-105                            | 3-109                            | 9-112     |
| 2-106                            | 3-110                            | 9-113     |
| 2-107                            | 3-111                            |           |

DIAGNOSTIC FOR CATCH SLEEPING  
AND SLEEPING. THE FOLLOWING  
ARE BASED UPON THE TYPE OF  
MARKERS USED IN THE STUDY.  
MARKERS USED IN THE STUDY  
WAS THE NUMBER OF MARKERS  
USED IN THE STUDY. THE  
APPROXIMATE NUMBER OF MARKERS  
DO NOT HAVE TO BE EQUAL.

NOTE: INTERFERING SMOKE AGENT IS SOLIDIFIED FOR 80% RELEASE RATE. RECOMMENDATION FOR CIRCULAR PRECAST ALTIMETER SHALL BE ACCORDING TO STD 1040.

JOINTS BETWEEN PRECAST KINGS OR BETWEEN PRECAST KINGS AND CONCRETE KINGS JOINTS SHOWN ARE TYPICAL AND MAY BE VARIOUS.

NOTE:

The Rebar, Steel or Wood To Bottom Slab Edge, Steel

REINFORCING - ISOMETRIC VIEW

ELEVATION

*[Illegible handwritten notes]*

 **WEST  
POINT**  
**City of West Point**

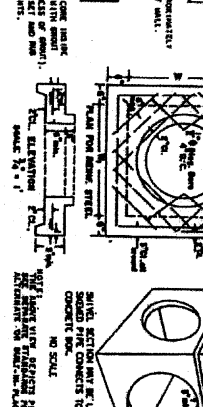
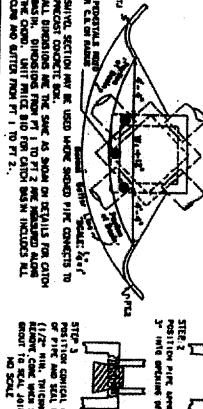
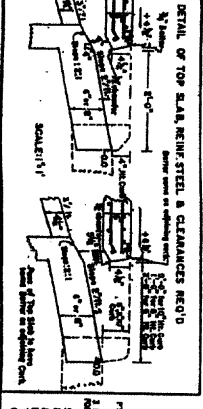
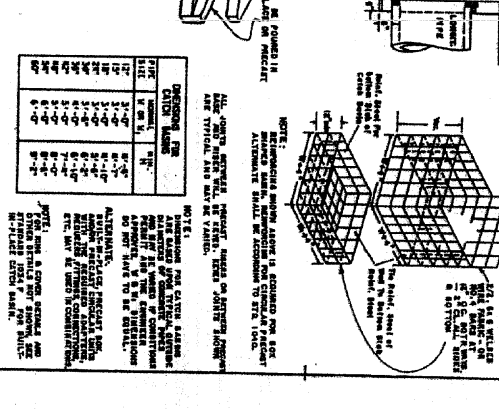
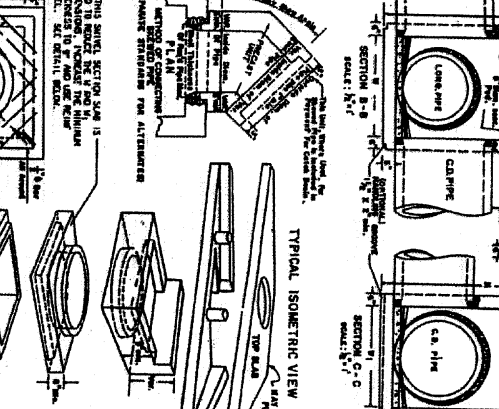
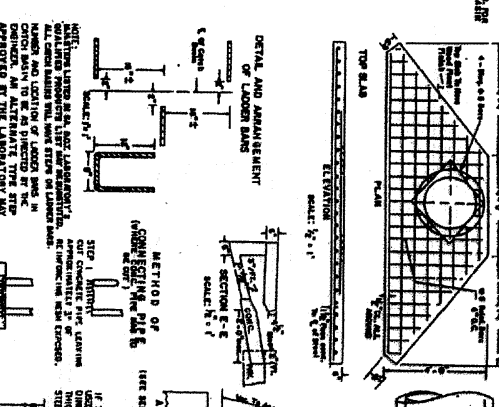
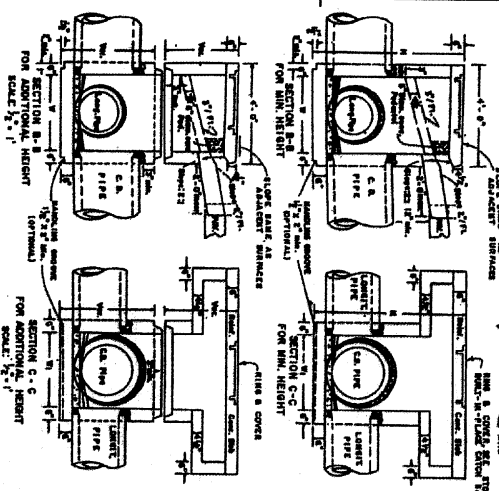
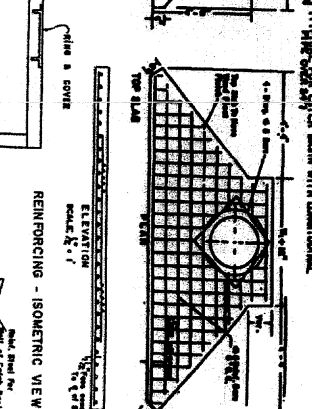
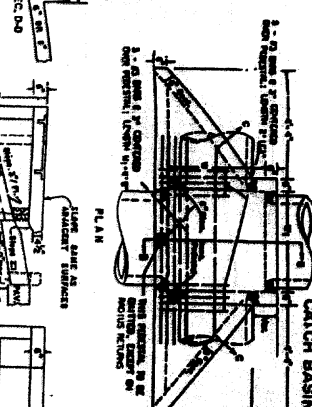
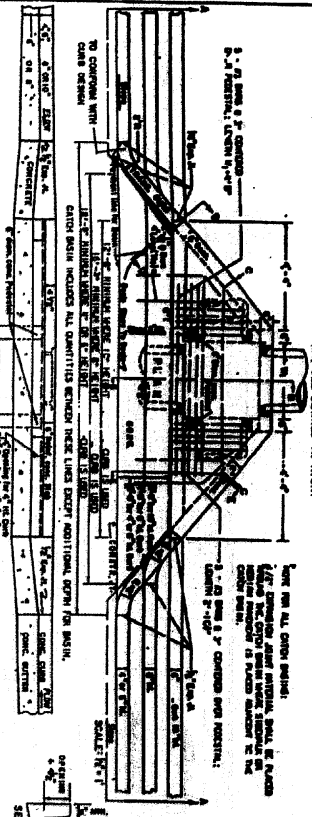
PRECAST 1034F CATCH BASIN

STANDARD DEVELOPMENT DETAILS

SCALE: NONE      DATE: JUNE 1998



CATCH BASIN (1" DIA. 24" DEEP) WITH LATERAL INLET





**City of West Point**

**PRECAST 1034F CATCH BASIN**

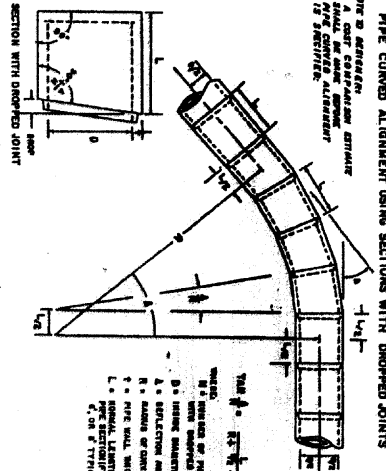
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998

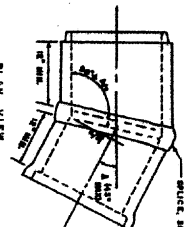
PIPE CURVED ALIGNMENT USING SECTIONS WITH DROPPED JOINTS

NOTE: 1. SEE SECTION 101.00 FOR GENERAL NOTES.  
2. SEE SECTION 101.00 FOR GENERAL NOTES.  
3. SEE SECTION 101.00 FOR GENERAL NOTES.  
4. SEE SECTION 101.00 FOR GENERAL NOTES.  
5. SEE SECTION 101.00 FOR GENERAL NOTES.  
6. SEE SECTION 101.00 FOR GENERAL NOTES.  
7. SEE SECTION 101.00 FOR GENERAL NOTES.  
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9. SEE SECTION 101.00 FOR GENERAL NOTES.  
10. SEE SECTION 101.00 FOR GENERAL NOTES.



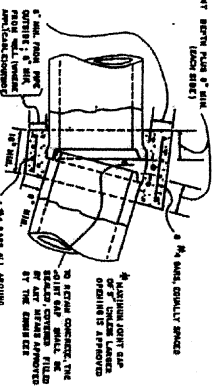
- NOTES FOR PIPE ELBOW:
1. ELBOW SHALL BE FABRICATED FROM STEEL OR CAST IRON.
  2. ELBOW SHALL BE WELDED TO THE PIPE.
  3. ELBOW SHALL BE WELDED TO THE PIPE.
  4. ELBOW SHALL BE WELDED TO THE PIPE.
  5. ELBOW SHALL BE WELDED TO THE PIPE.
  6. ELBOW SHALL BE WELDED TO THE PIPE.
  7. ELBOW SHALL BE WELDED TO THE PIPE.
  8. ELBOW SHALL BE WELDED TO THE PIPE.
  9. ELBOW SHALL BE WELDED TO THE PIPE.
  10. ELBOW SHALL BE WELDED TO THE PIPE.

PIPE ELBOW SECTION (PRE-FABRICATED)



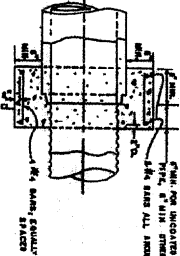
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  6. ELBOW SHALL BE WELDED TO THE PIPE.
  7. ELBOW SHALL BE WELDED TO THE PIPE.
  8. ELBOW SHALL BE WELDED TO THE PIPE.
  9. ELBOW SHALL BE WELDED TO THE PIPE.
  10. ELBOW SHALL BE WELDED TO THE PIPE.

CONCRETE COLLAR FOR DEFLECTING PIPE



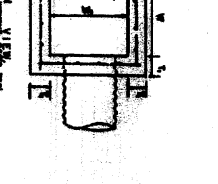
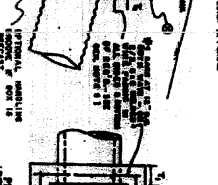
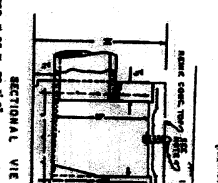
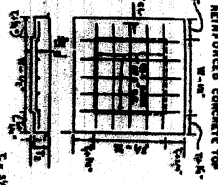
- NOTES FOR CONCRETE COLLAR:
1. COLLAR SHALL BE FABRICATED FROM CONCRETE.
  2. COLLAR SHALL BE WELDED TO THE PIPE.
  3. COLLAR SHALL BE WELDED TO THE PIPE.
  4. COLLAR SHALL BE WELDED TO THE PIPE.
  5. COLLAR SHALL BE WELDED TO THE PIPE.
  6. COLLAR SHALL BE WELDED TO THE PIPE.
  7. COLLAR SHALL BE WELDED TO THE PIPE.
  8. COLLAR SHALL BE WELDED TO THE PIPE.
  9. COLLAR SHALL BE WELDED TO THE PIPE.
  10. COLLAR SHALL BE WELDED TO THE PIPE.

CONCRETE COLLAR FOR JOINTING PIPE

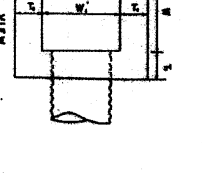
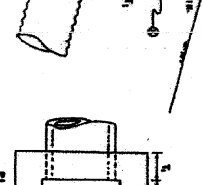
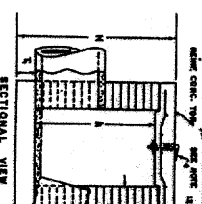


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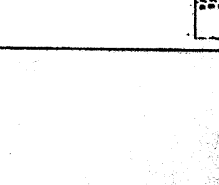
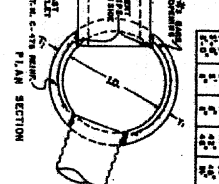
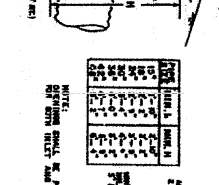
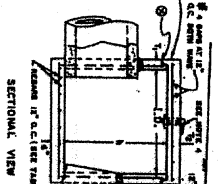
DETAILS OF CONCRETE JUNCTION BOX



DETAILS OF BRICK JUNCTION BOX



DETAILS OF CIRCULAR PRECAST JUNCTION BOX



- GENERAL NOTES:
1. SPECIFICATIONS, STANDARD, CURRENT EDITIONS.
  2. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  3. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  4. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  5. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  6. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  7. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  8. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  9. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.
  10. ILLUSTRATED NOTES, PIPE JOINTS, ALIGNMENT, SIZE, ETC.

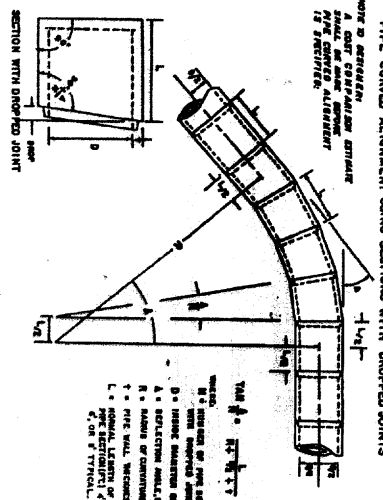


City of West Point

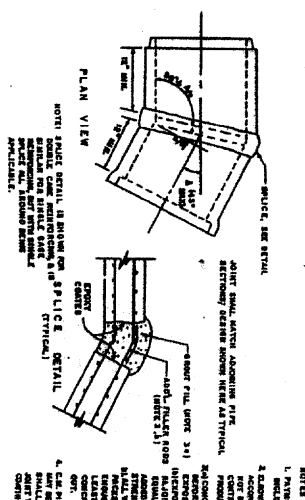
STANDARD 9031U JUNCTION BOX

SCALE: NONE DATE: JUNE 1998

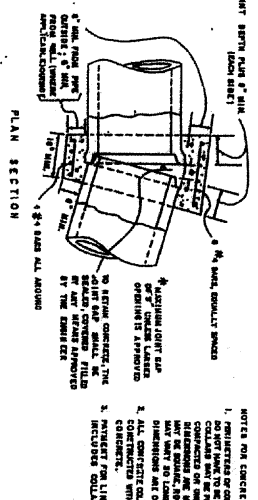
PIPE CURVED ALIGNMENT USING SECTIONS WITH DROPPED JOINTS



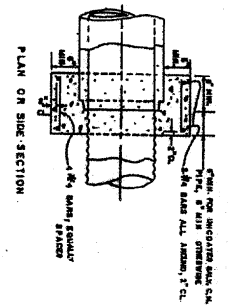
PIPE ELBOW SECTION (PRE-FABRICATED)



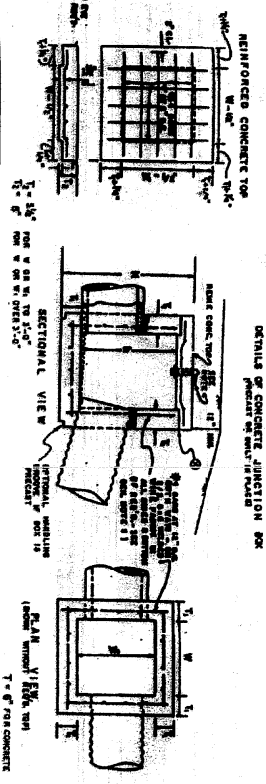
CONCRETE COLLAR FOR DEFLECTING PIPE



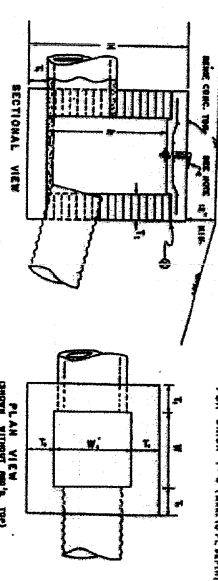
CONCRETE COLLAR FOR JOINTING PIPE



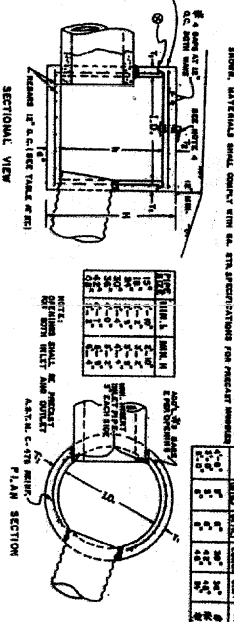
DETAILS OF CONCRETE JUNCTION BOX



DETAILS OF BRICK JUNCTION BOX



DETAILS OF CIRCULAR PRECAST JUNCTION BOX

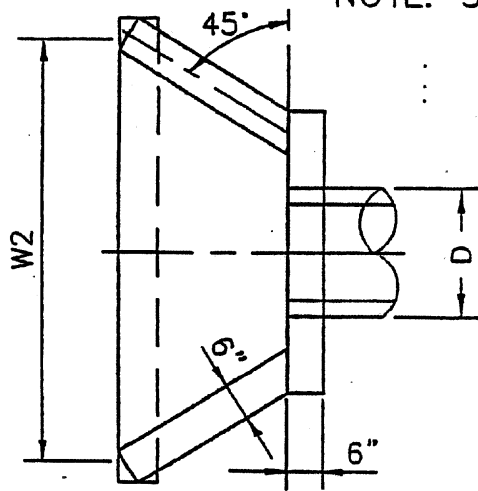


City of West Point

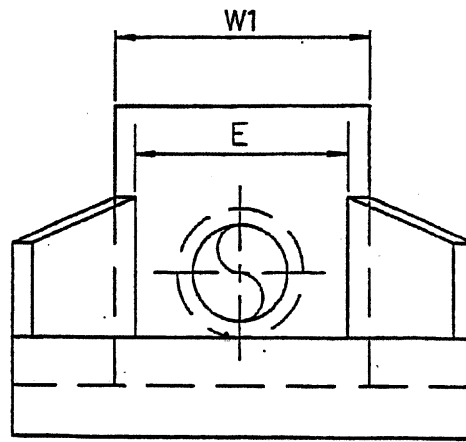
STANDARD 9031U JUNCTION BOX

STANDARD DEVELOPMENT DETAILS  
DATE: JUNE 1998

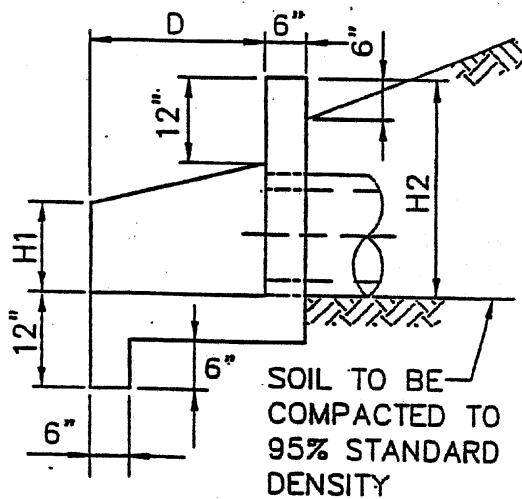
NOTE: SEE D07.02 FOR DIMENSIONS.



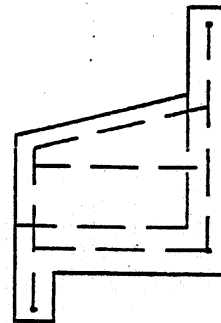
PLAN



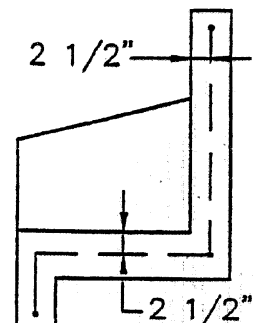
FRONT ELEVATION



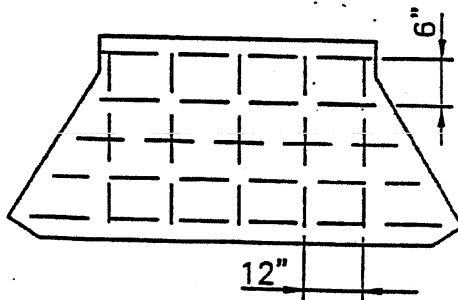
SIDE



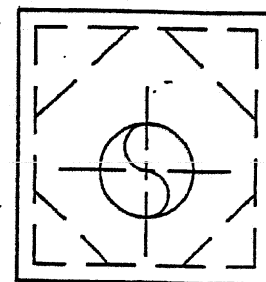
WING SECTION



BASE & WALL SECTION



BASE SECTION



WALL SECTION



**City of West Point**

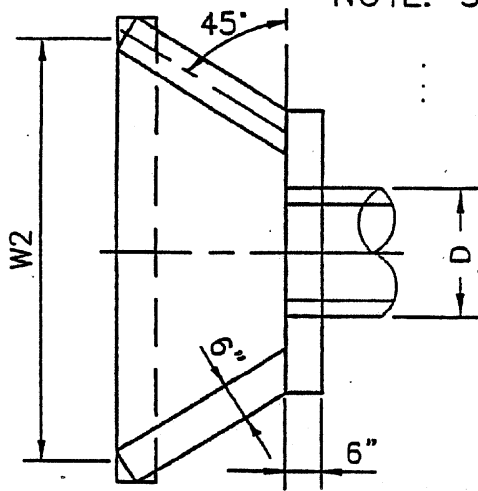
**STANDARD PRECAST HEADWALL**

STANDARD DEVELOPMENT DETAILS

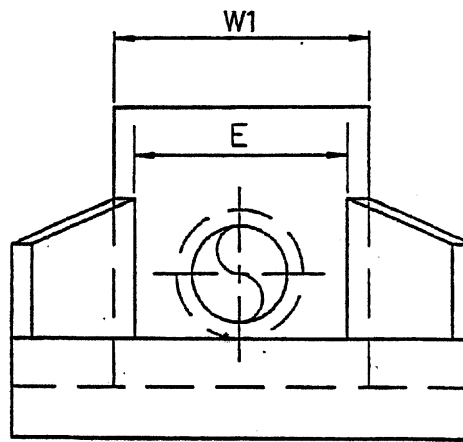
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DATE: JUNE 1998

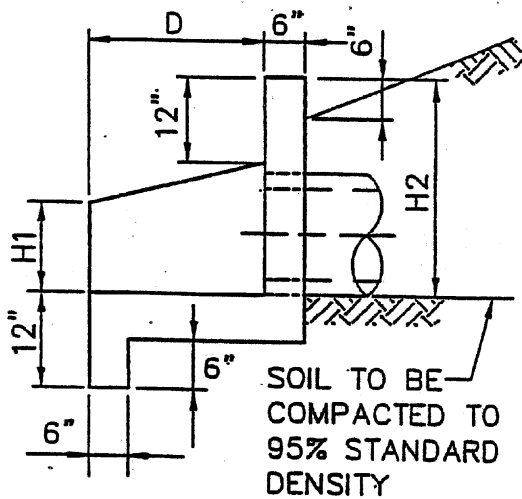
NOTE: SEE D07.02 FOR DIMENSIONS.



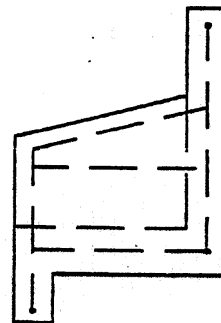
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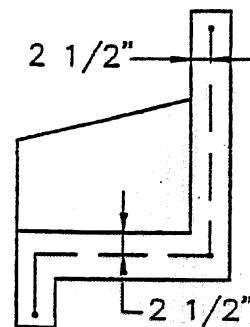
FRONT ELEVATION



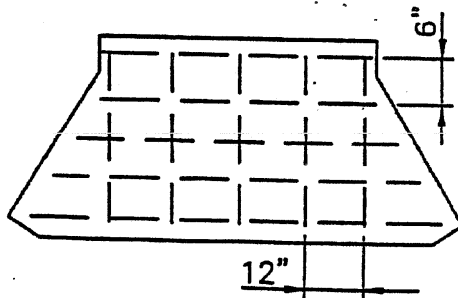
SIDE



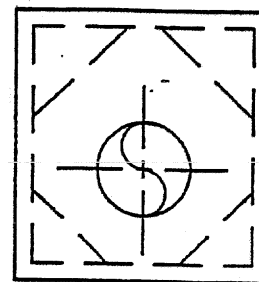
WING SECTION



BASE & WALL SECTION



BASE SECTION



WALL SECTION



**City of West Point**

**STANDARD PRECAST HEADWALL**

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998

## HEADWALL DIMENSIONS (METAL PIPE)

## USE NEXT LARGEST SIZE FOR CONCRETE PIPE

| PIPE<br>INSIDE<br>DIA. | W1    | W2      | H1    | H2    | D      | E     | WT.  | SQ. FT.<br>BASE<br>AREA |
|------------------------|-------|---------|-------|-------|--------|-------|------|-------------------------|
| 12", 15", 18"          | 3'-2" | 4'-10"  | 1'-3" | 3'-2" | 1'-3"  | 1'-9" | 1550 | 7.34                    |
| 21", 24"               | 3'-8" | 6'-1"   | 1'-9" | 3'-8" | 1'-6"  | 2'-3" | 2100 | 9.90                    |
| 30"                    | 4'-2" | 7'-2"   | 2'-0" | 4'-2" | 1'-10" | 2'-9" | 2850 | 13.50                   |
| 36"                    | 4'-8" | 8'-4"   | 2'-4" | 4'-8" | 2'-2"  | 3'-3" | 3700 | 17.65                   |
| 42", 48"               | 5'-8" | 10'-10" | 3'-3" | 5'-8" | 2'-11" | 4'-3" | 5600 | 28.60                   |
| 54"                    | 6'-8" | 11'-11" | 3'-8" | 6'-8" | 3'-4"  | 5'-3" | 7500 | 35.60                   |

## NOTES:

1. ALL CONCRETE SHALL BE CLASS A
2. REINFORCEMENT STEEL SHALL BE 1/2" DIA. OF INTERMEDIATE GRADE.
3. CHAMFER ALL EXPOSED EDGES 3/4".
4. ALL CONCRETE SHALL BE 4,000 P.S.I.
5. RIP RAP TO BE PLACED AT OUTLET, LENGTH TO BE 6 x D

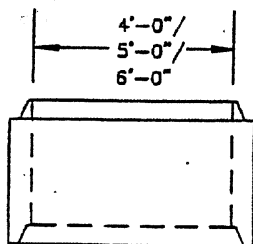
## HEADWALL DIMENSIONS (METAL PIPE)

## USE NEXT LARGEST SIZE FOR CONCRETE PIPE

| PIPE<br>INSIDE<br>DIA. | W1    | W2      | H1    | H2    | D      | E     | WT.  | SQ. FT.<br>BASE<br>AREA |
|------------------------|-------|---------|-------|-------|--------|-------|------|-------------------------|
| 12", 15", 18"          | 3'-2" | 4'-10"  | 1'-3" | 3'-2" | 1'-3"  | 1'-9" | 1550 | 7.34                    |
| 21", 24"               | 3'-8" | 6'-1"   | 1'-9" | 3'-8" | 1'-6"  | 2'-3" | 2100 | 9.90                    |
| 30"                    | 4'-2" | 7'-2"   | 2'-0" | 4'-2" | 1'-10" | 2'-9" | 2850 | 13.50                   |
| 36"                    | 4'-8" | 8'-4"   | 2'-4" | 4'-8" | 2'-2"  | 3'-3" | 3700 | 17.65                   |
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| 54"                    | 6'-8" | 11'-11" | 3'-8" | 6'-8" | 3'-4"  | 5'-3" | 7500 | 35.60                   |

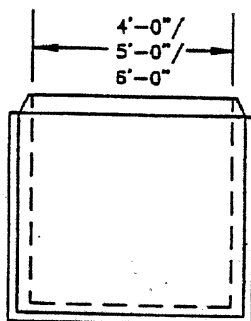
## NOTES:

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2. REINFORCEMENT STEEL SHALL BE 1/2" DIA. OF INTERMEDIATE GRADE.
3. CHAMFER ALL EXPOSED EDGES 3/4".
4. ALL CONCRETE SHALL BE 4,000 P.S.I.
5. RIP RAP TO BE PLACED AT OUTLET, LENGTH TO BE 6 x D



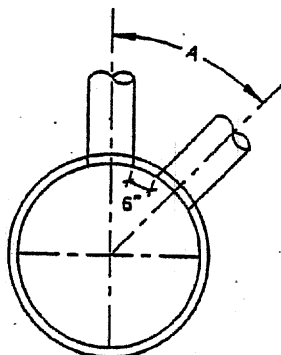
REINFORCING TO BE 2/2 6X6  
WELDED WIRE FABRIC

### RISER

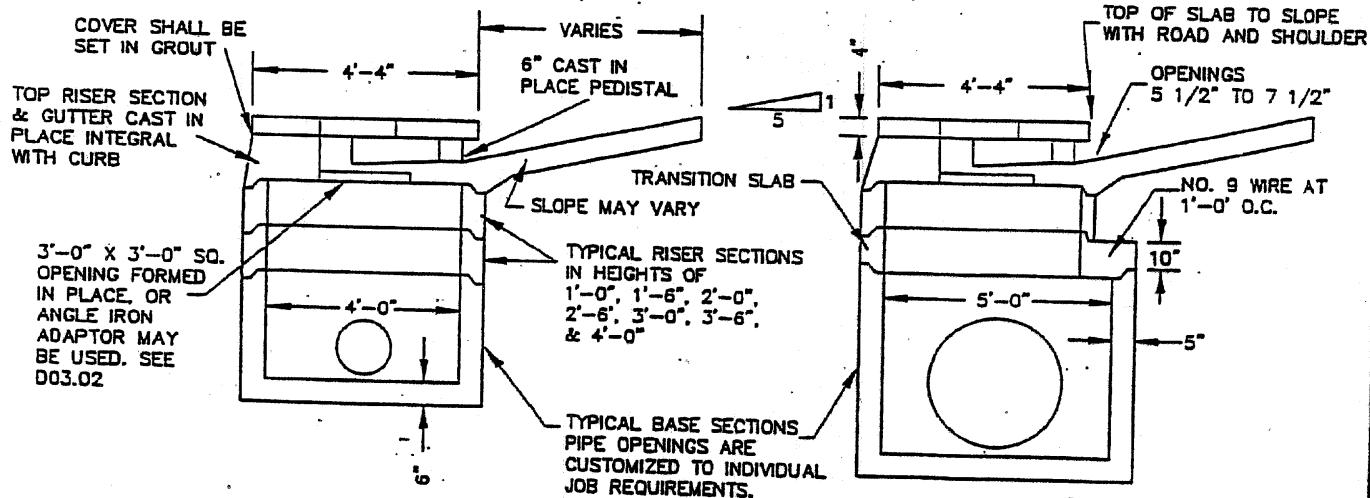


REINFORCING TO BE 2/2 6X6  
WELDED WIRE FABRIC

### BASE



| ANGLE A    |     |            |      |            |      |
|------------|-----|------------|------|------------|------|
| 4'-0" BASE |     | 5'-0" BASE |      | 6'-0" BASE |      |
| PIPE SIZE  | A   | PIPE SIZE  | A    | PIPE SIZE  | A    |
| 12         | 45° | 12         | 40°  |            |      |
| 15         | 52° | 15         | 47°  |            |      |
| 18         | 60° | 18         | 55°  |            |      |
| 21         | 67° | 21         | 69°  |            |      |
| 24         | 75° | 24         | 70°  |            |      |
|            |     | 27         | 78°  |            |      |
|            |     | 30         | 86°  |            |      |
|            |     | 36         | 115° |            |      |
|            |     | 42         | 140° | 42         | 90°  |
|            |     |            |      | 48         | 115° |



#### NOTES:

(WHERE PIPE DIA. REQUIRES 5' DIA. BASE)

1. SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR.
2. REINFORCEMENT STEEL TO BE PLACED TO ALLOW A MINIMUM OF 2" CLEARANCE, EXCEPT WHERE NOTED.
3. REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE AND SHALL BE 0.12 SQ. IN. PER FT. IN BOTH DIRECTIONS IN ACCORDANCE WITH A.S.T.M. C 476-76 MANHOLE SPECIFICATIONS.
4. ALL CONCRETE SHALL BE CLASS AA1 4500 PSI UNLESS NOTED OTHERWISE.
5. CHAMFER ALL EXPOSED EDGES 3/4".
6. STRUCTURE TO ACCOMMODATE DOUBLE WING AS REQUIRED.



City of West Point

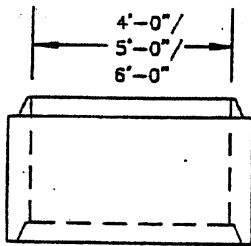
## STANDARD CIRCULAR CATCH BASINS

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

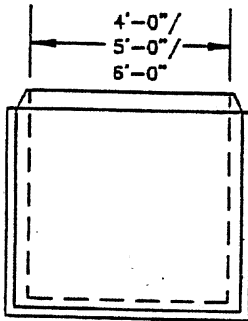
DATE: JUNE 1998





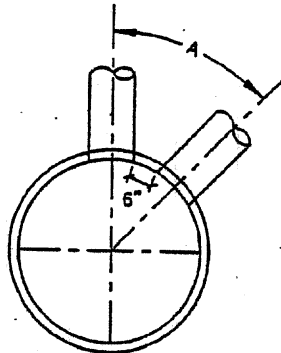
REINFORCING TO BE 2/2 6X6  
WELDED WIRE FABRIC

### RISER

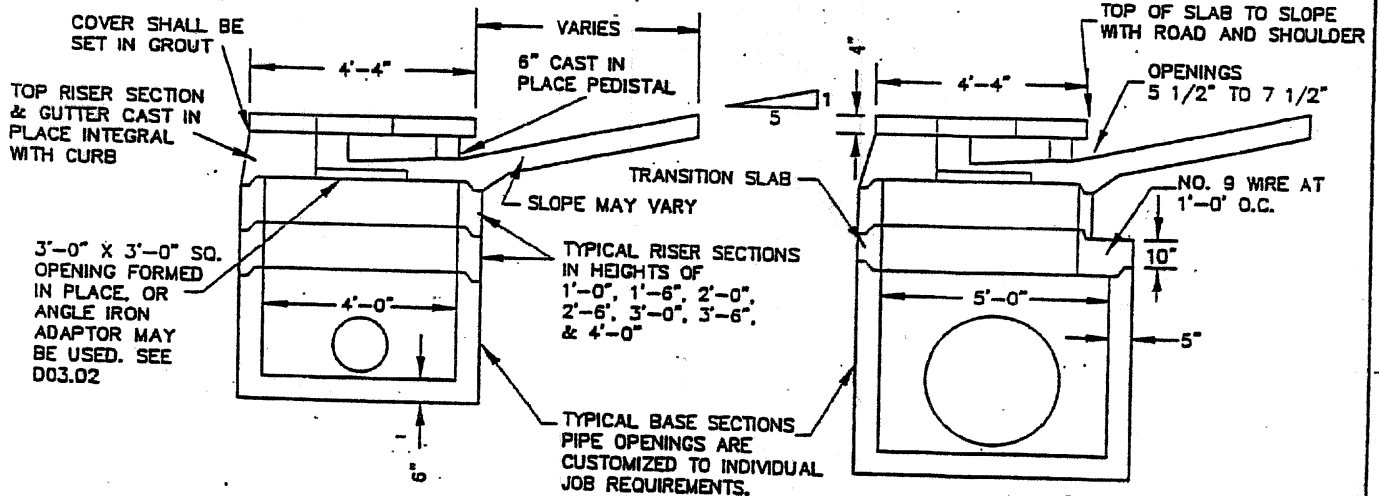


REINFORCING TO BE 2/2 6X6  
WELDED WIRE FABRIC

### BASE



| ANGLE A    |     |            |      |            |      |
|------------|-----|------------|------|------------|------|
| 4'-0" BASE |     | 5'-0" BASE |      | 6'-0" BASE |      |
| PIPE SIZE  | A   | PIPE SIZE  | A    | PIPE SIZE  | A    |
| 12         | 45° | 12         | 40°  |            |      |
| 15         | 52° | 15         | 47°  |            |      |
| 18         | 60° | 18         | 55°  |            |      |
| 21         | 67° | 21         | 69°  |            |      |
| 24         | 75° | 24         | 70°  |            |      |
|            |     | 27         | 78°  |            |      |
|            |     | 30         | 86°  |            |      |
|            |     | 36         | 115° |            |      |
|            |     | 42         | 140° | 42         | 90°  |
|            |     |            |      | 48         | 115° |



### NOTES:

(WHERE PIPE DIA. REQUIRES 5' DIA. BASE)

- SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR.
- REINFORCEMENT STEEL TO BE PLACED TO ALLOW A MINIMUM OF 2" CLEARANCE, EXCEPT WHERE NOTED.
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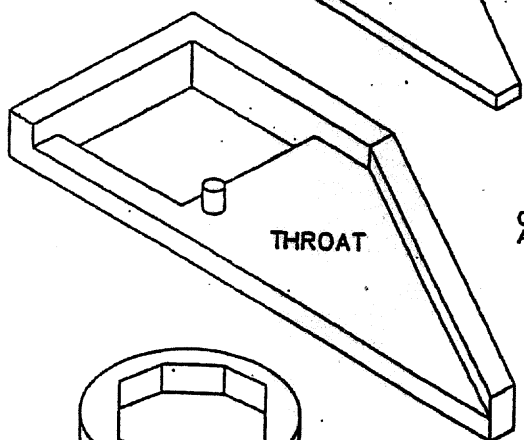
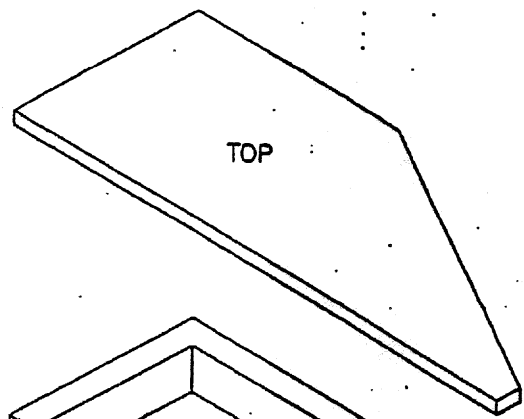
City of West Point

## STANDARD CIRCULAR CATCH BASINS

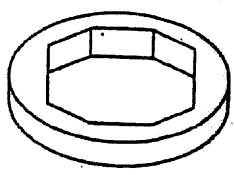
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

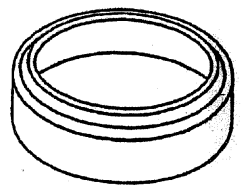
DATE: JUNE 1998



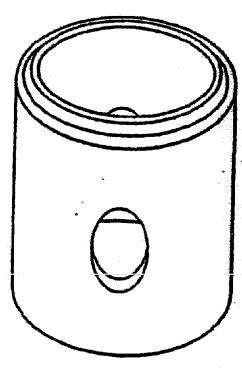
GROUT  
ALL JOINTS



SQUARE TO  
ROUND ADAPTER

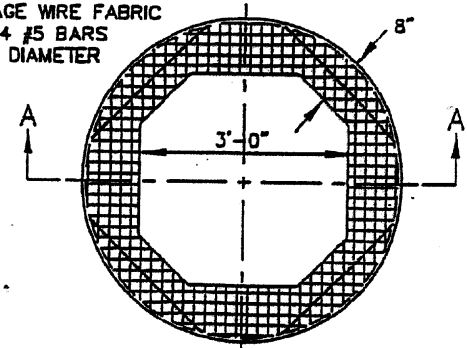


RISER SECTION (IF REQ'D.)

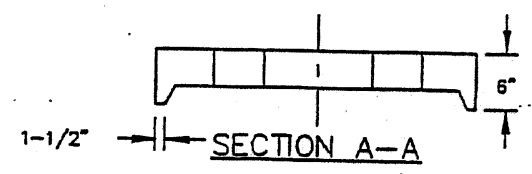


MONOLITHIC BASE  
HOLES MUST BE  
PRECAST

REINFORCING TO BE  
2/2 6X6 WELDED  
10 GAGE WIRE FABRIC  
WITH 4 #5 BARS  
4'-8" DIAMETER

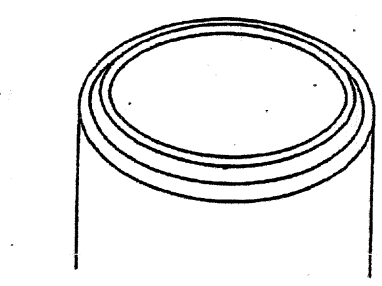
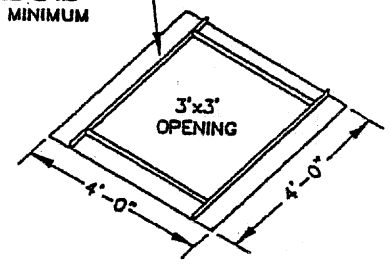


PLAN



ROUND TO SQUARE ADAPTER

LIGHT WEIGHT STEEL  
12 GAUGE 2"x6"  
FLANGE MINIMUM



OPTIONAL METAL ADAPTER



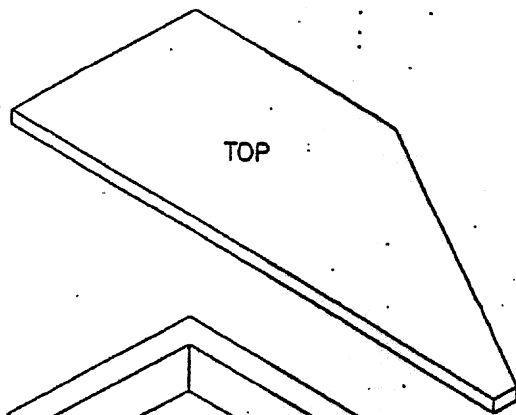
City of West Point

STANDARD CIRCULAR CATCH BASINS

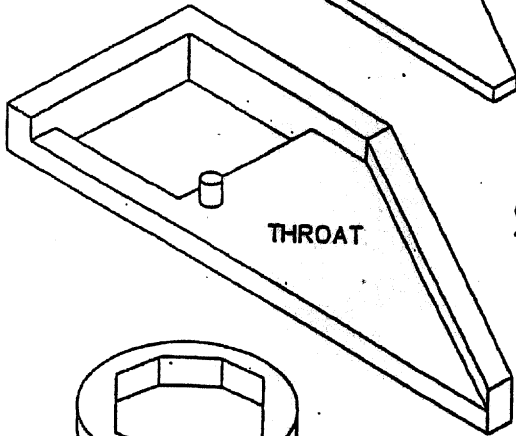
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998

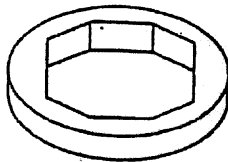


TOP

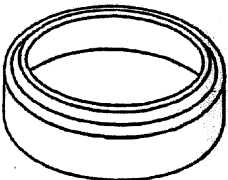


THROAT

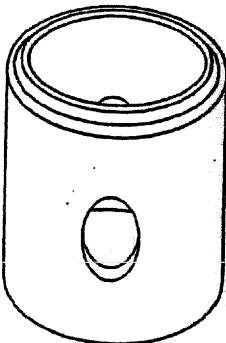
GROUT  
ALL JOINTS



SQUARE TO  
ROUND ADAPTER

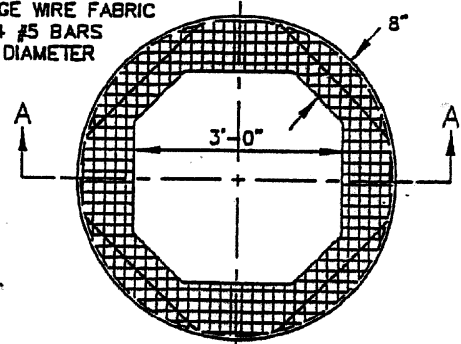


RISER SECTION (IF REQ'D.)

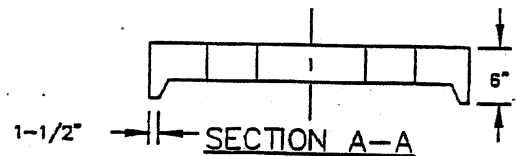


MONOLITHIC BASE  
HOLES MUST BE  
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REINFORCING TO BE  
2/2 6X6 WELDED  
10 GAGE WIRE FABRIC  
WITH 4 #5 BARS  
4'-8" DIAMETER

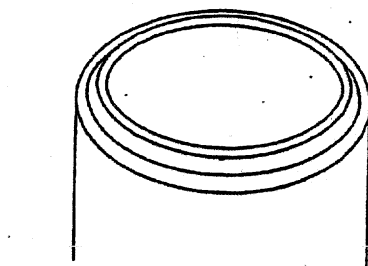
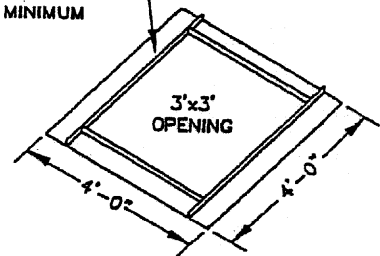


PLAN



ROUND TO SQUARE ADAPTER

LIGHT WEIGHT STEEL  
12 GAUGE 2"x6"  
FLANGE MINIMUM



OPTIONAL METAL ADAPTER



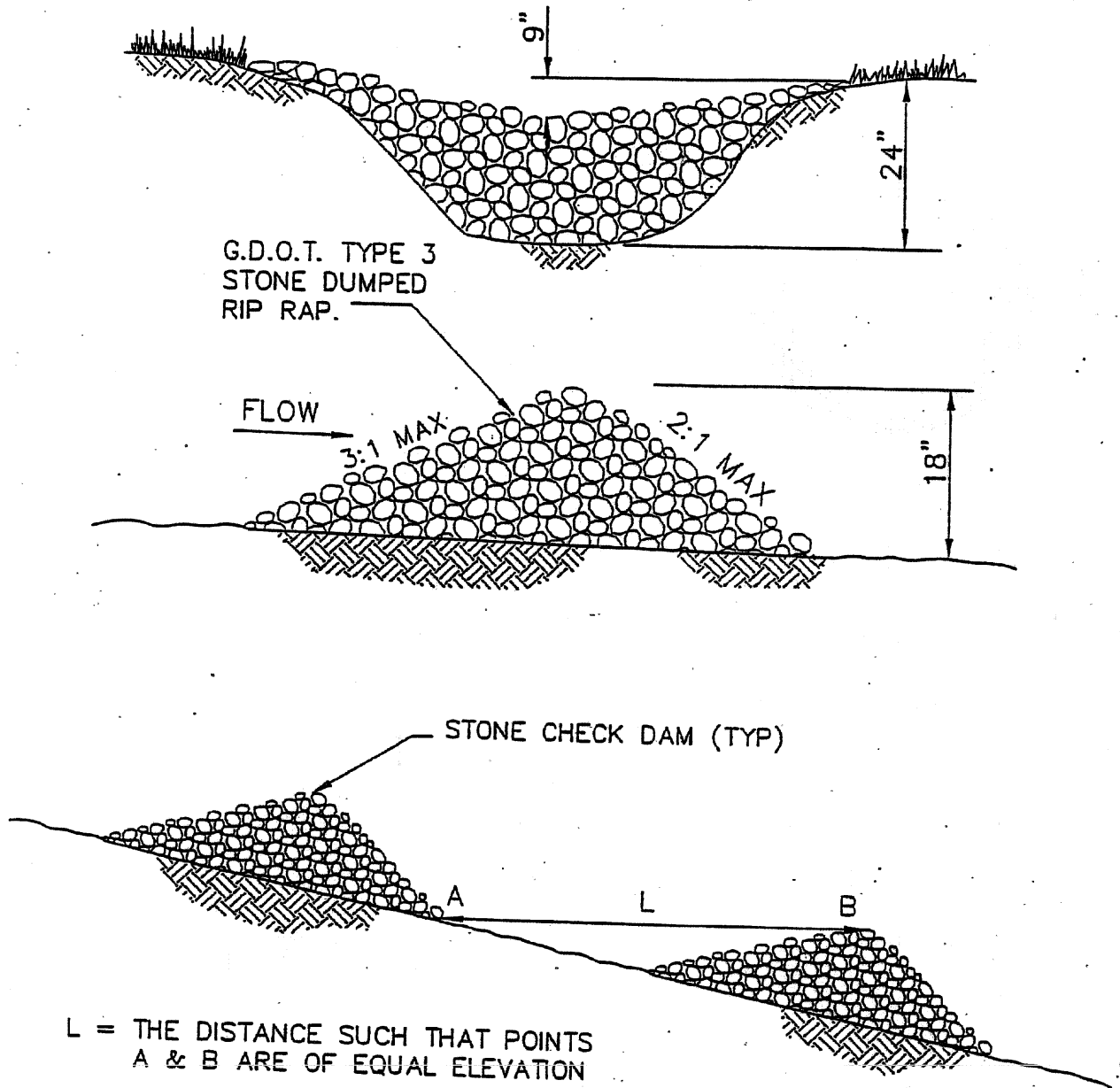
City of West Point

STANDARD CIRCULAR CATCH BASINS

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



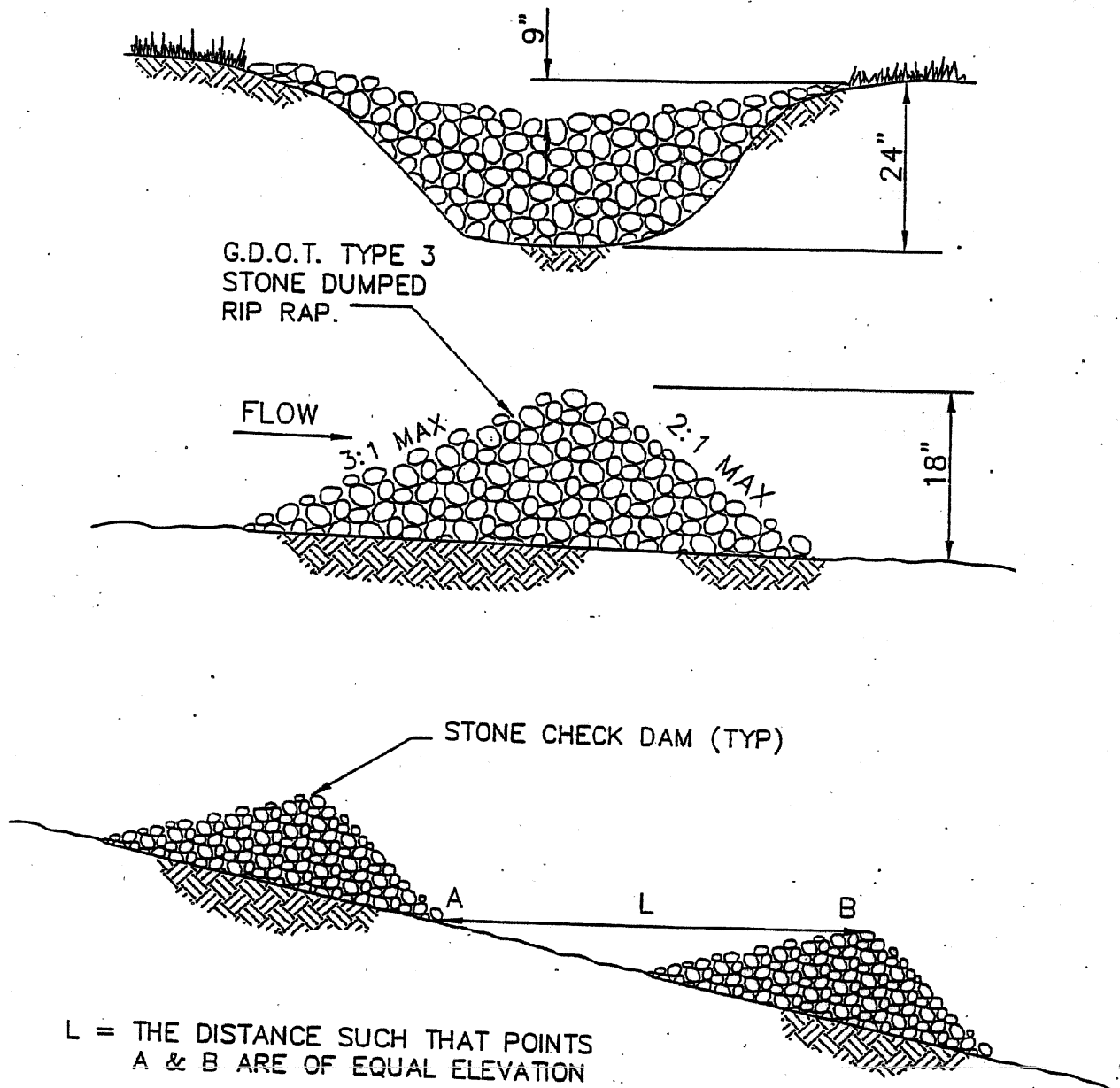
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City of West Point

STONE CHECK DAM

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE  
DATE: JUNE 1998



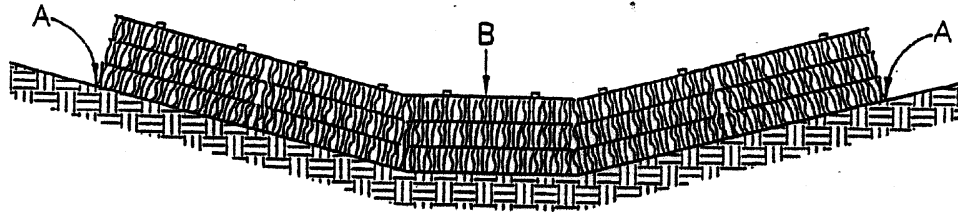
Cd



City of West Point

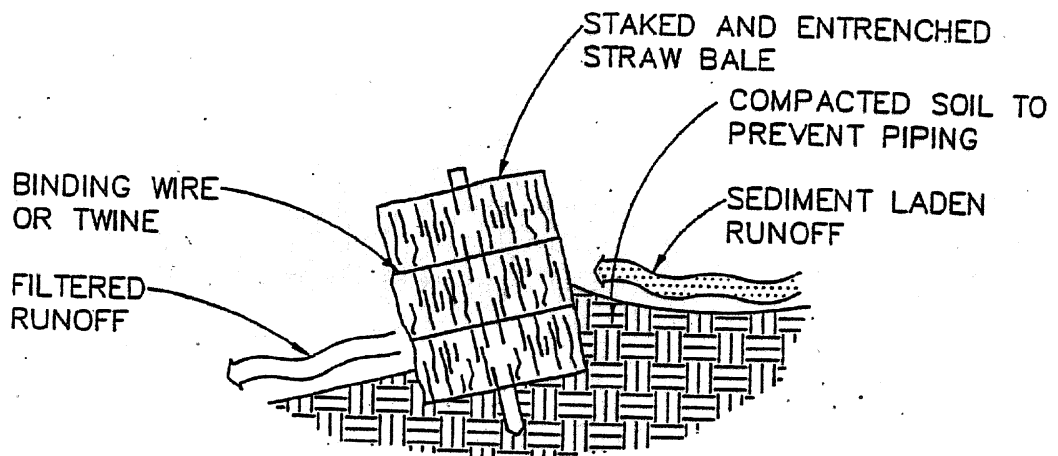
STONE CHECK DAM

STANDARD DEVELOPMENT DETAILS  
 SCALE: NONE  
 DATE: JUNE 1998



POINTS "A" SHOULD BE HIGHER THAN POINT "B".

PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



NOTE: EMBED HAY BALES A MINIMUM OF 4 INCHES.

CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

Cd



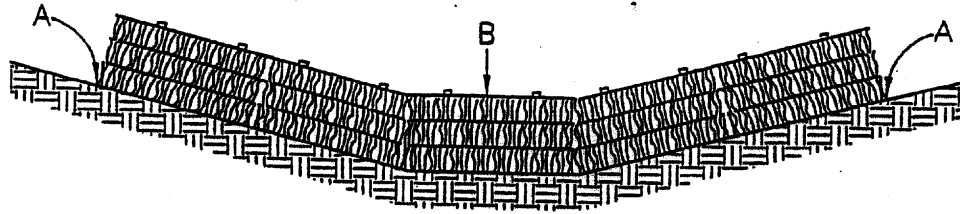
**City of West Point**

**STRAW BALE CHECK DAM**

STANDARD DEVELOPMENT DETAILS

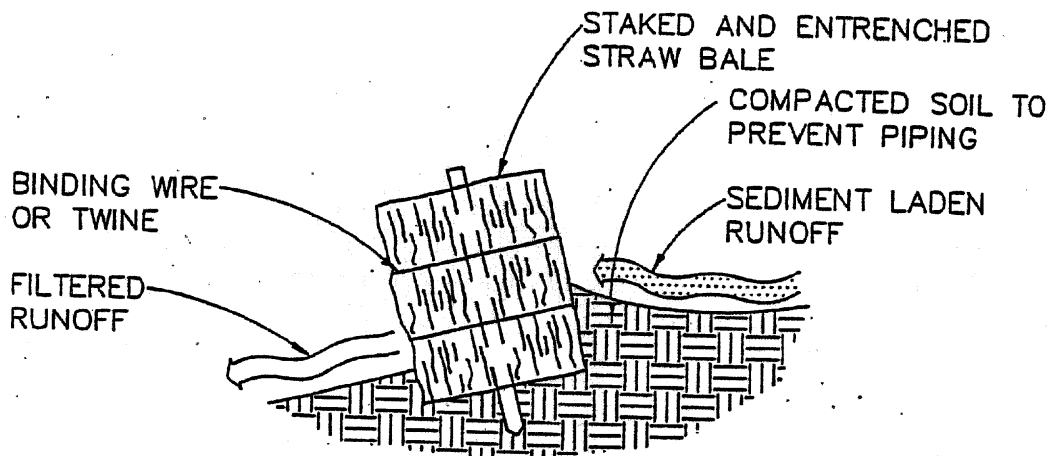
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DATE: JUNE 1998



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PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



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Cd



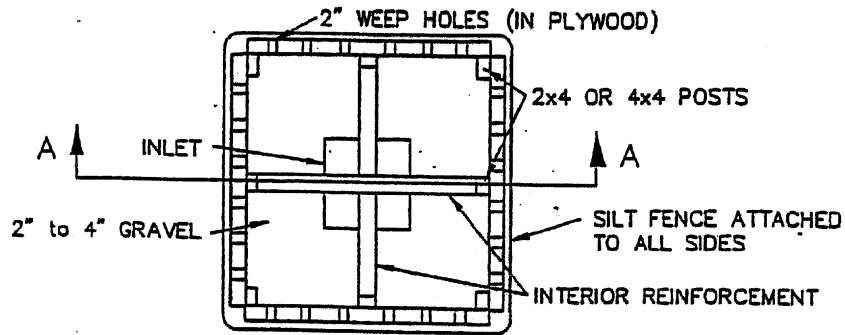
**City of West Point**

**STRAW BALE CHECK DAM**

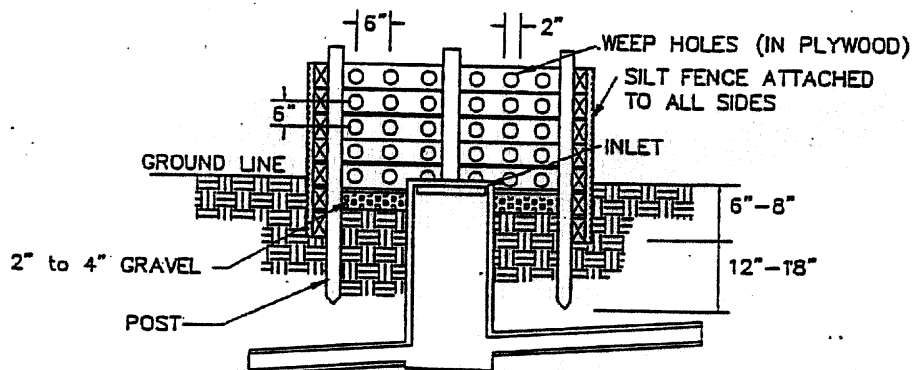
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998



PLAN



SECTION A-A

## NOTES:

2" to 4" GRAVEL

POST

BOX TO BE MADE OF BOARDS SPACED 1" to 2" APART, OR MADE OF PLYWOOD WITH 2" WEEP HOLES SPACED APPROX. 6" VERTICAL - 6" HORIZONTAL  
 SILT FENCE TO BE ATTACHED TO ALL SIDES OF THE SEDIMENT BOX  
 2" to 4" OF GRAVEL ON THE INSIDE AROUND THE INLET (IN PLYWOOD BOX)  
 DIMENSIONS OF THE BOX WILL VARY ACCORDING TO THE SIZE OF THE INLET AND DEPTH OF BASIN  
 EXCAVATE 1' BELOW TOP OF INLET IN 10' RADIUS AROUND BOX FOR SILT CONTROL DURING CONSTRUCTION



City of West Point

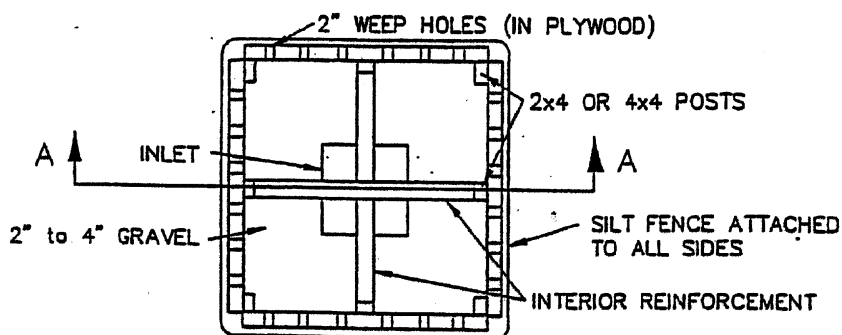
## SEDIMENT BOX

STANDARD DEVELOPMENT DETAILS

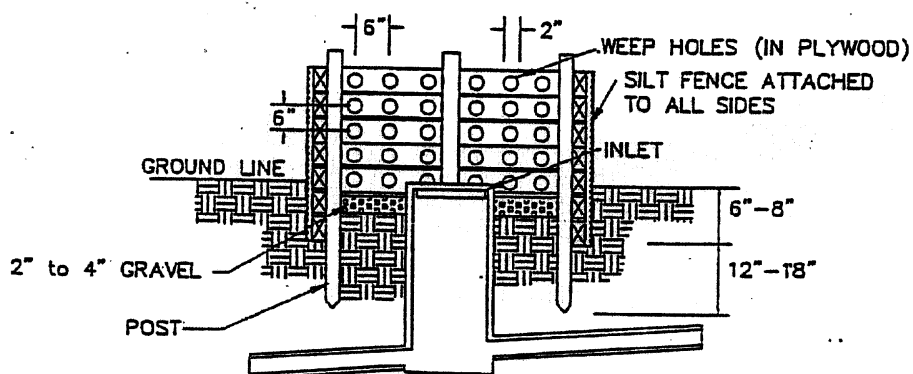
SCALE: NONE

DATE: JUNE 1998





PLAN



SECTION A-A

## NOTES:

BOX TO BE MADE OF BOARDS SPACED 1" to 2" APART, OR MADE OF PLYWOOD WITH 2" WEEP HOLES SPACED APPROX. 6" VERTICAL - 6" HORIZONTAL  
 SILT FENCE TO BE ATTACHED TO ALL SIDES OF THE SEDIMENT BOX  
 2" to 4" OF GRAVEL ON THE INSIDE AROUND THE INLET (IN PLYWOOD BOX)  
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City of West Point

## SEDIMENT BOX

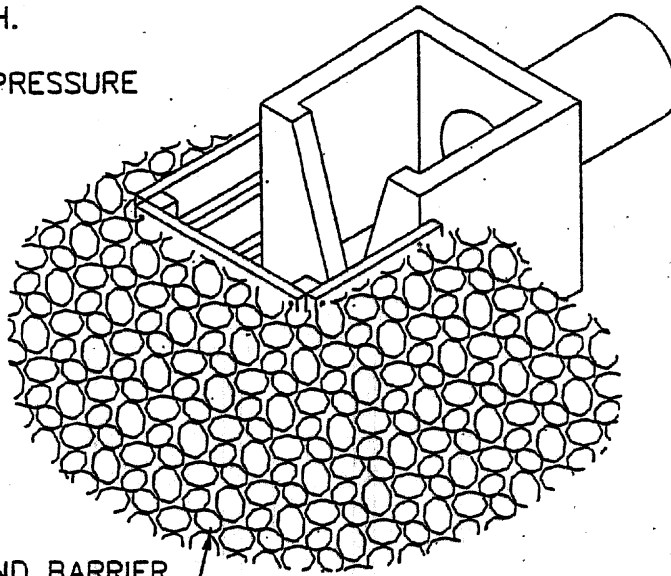
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

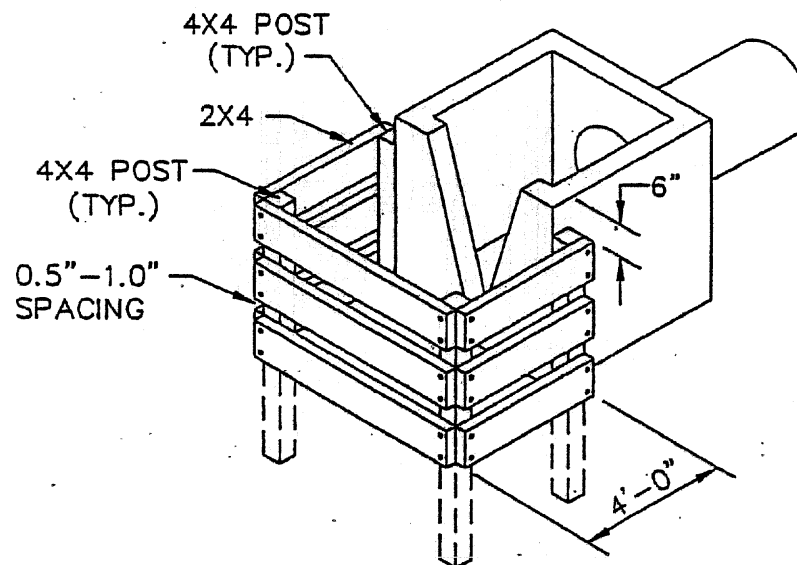
DATE: JUNE 1998

## NOTES:

1. POST TO BURIED MIN. 2'4" IN COMPACTED EARTH OR IN UNDISTURBED EARTH.
2. ALL WOOD TO BE PRESSURE TREATED.



FILL AROUND BARRIER  
WITH 3" - 4" STONE  
(EVEN WITH TOP)



**City of West Point**

## SLOTTED BOARD DAM

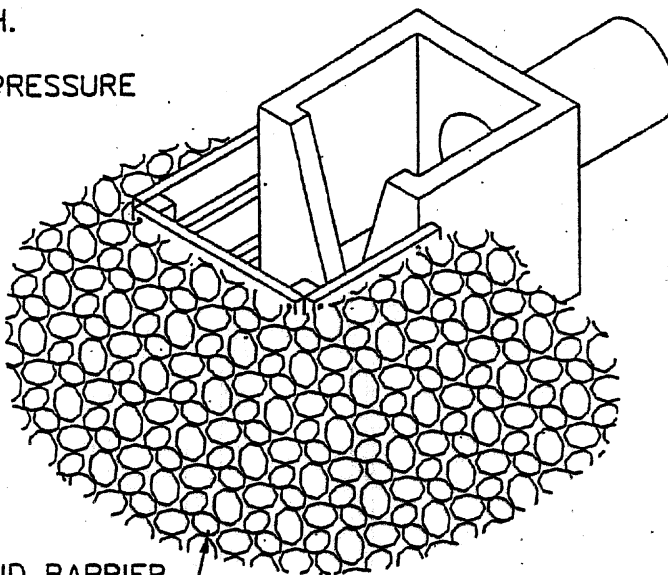
STANDARD DEVELOPMENT DETAILS

SCALE: NONE

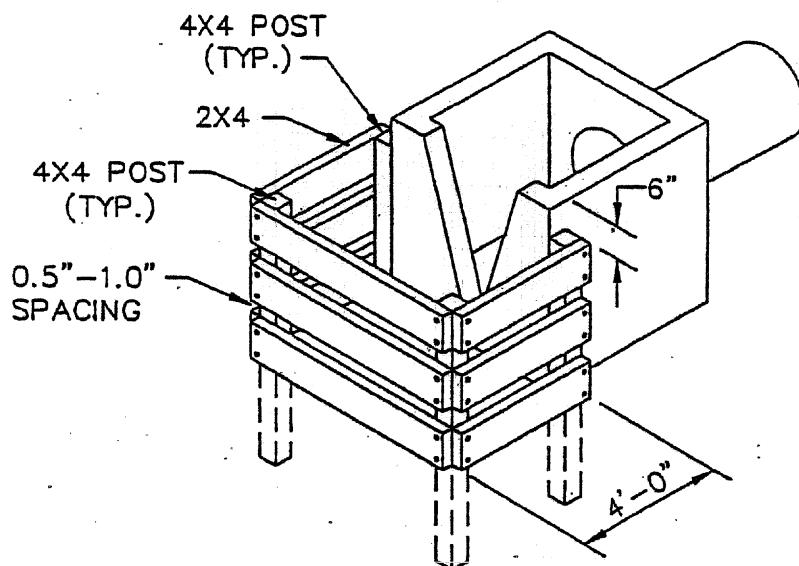
DATE: JUNE 1998

## NOTES:

1. POST TO BE BURIED MIN. 24" IN COMPACTED EARTH OR IN UNDISTURBED EARTH.
2. ALL WOOD TO BE PRESSURE TREATED.



FILL AROUND BARRIER  
WITH 3" - 4" STONE  
(EVEN WITH TOP)



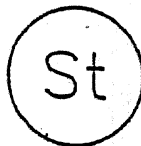
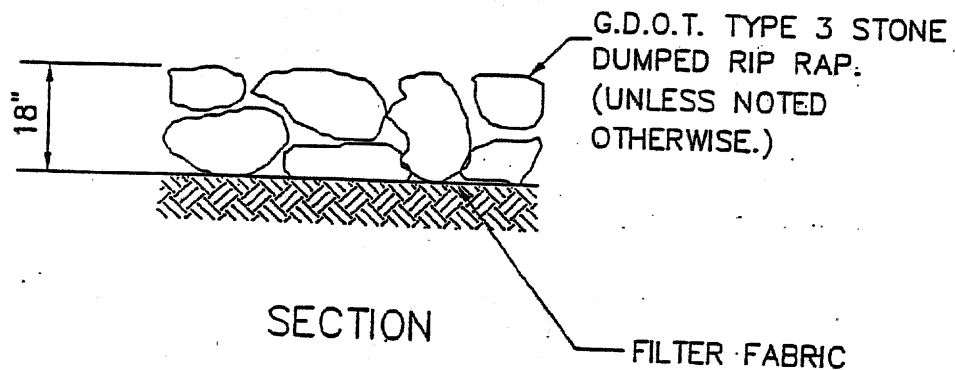
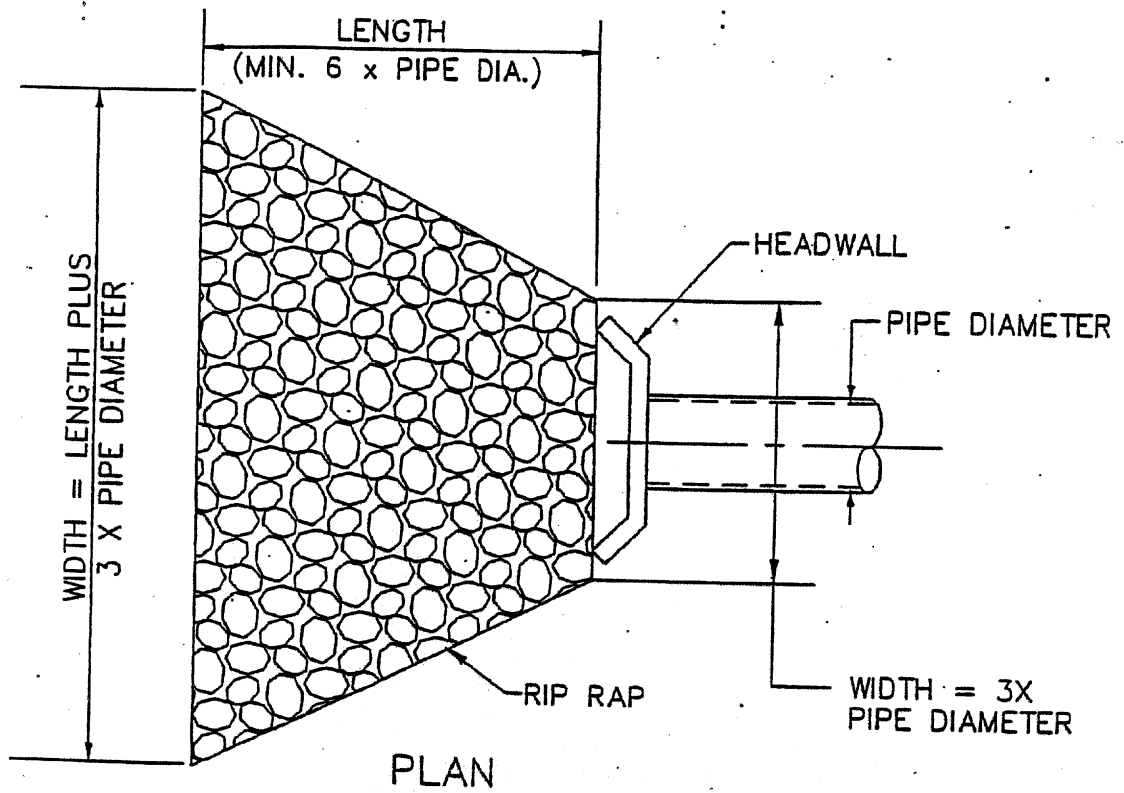
**City of West Point**

## SLOTTED BOARD DAM

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998

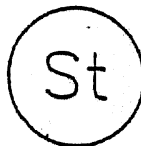
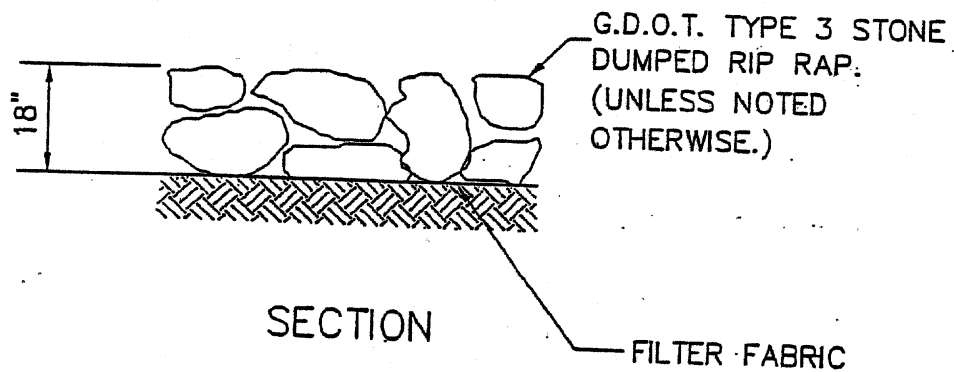
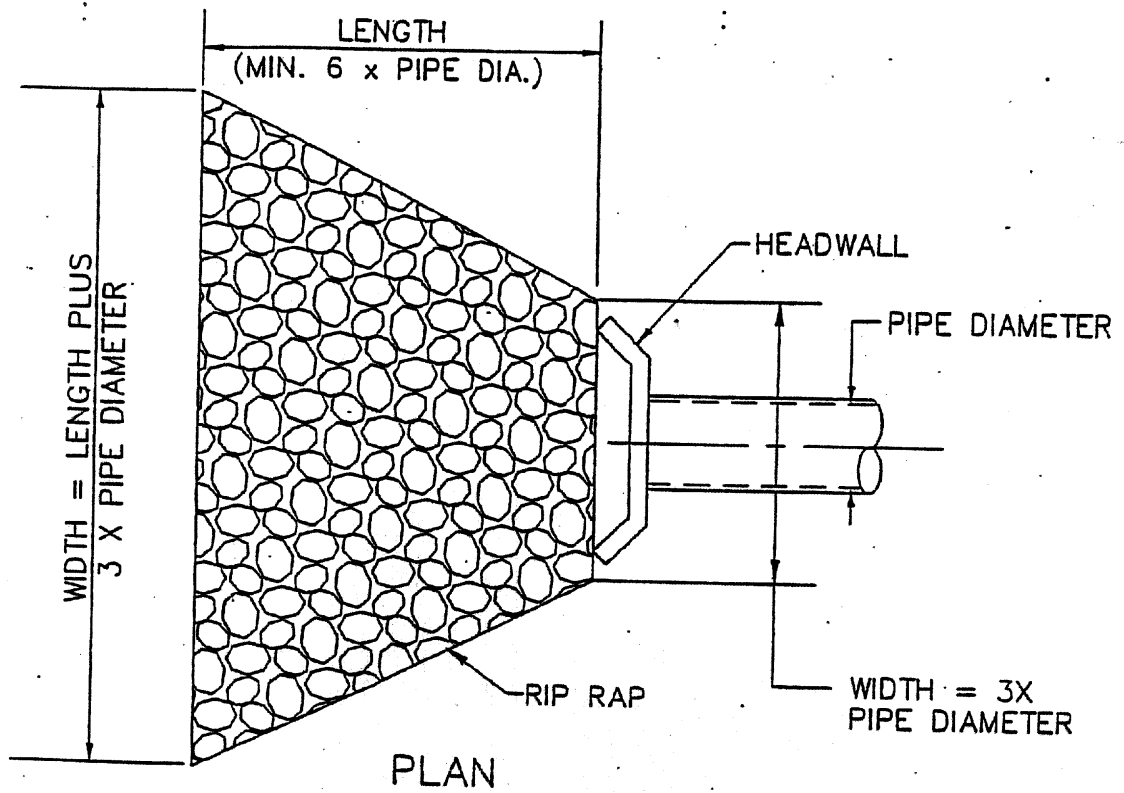


City of West Point

STORM DRAIN OUTLET PROTECTION

STANDARD DEVELOPMENT DETAILS  
SCALE: NONE

DATE: JUNE 1998



City of West Point

# STORM DRAIN OUTLET PROTECTION

STANDARD DEVELOPMENT DETAILS

SCALE: NONE

DATE: JUNE 1998