

*City of Newburyport*  
*Department of Public Services*

**Sidewalk Specifications**

**June 2015**

Donna D. Holaday, Mayor

Anthony J. Furnari, Director

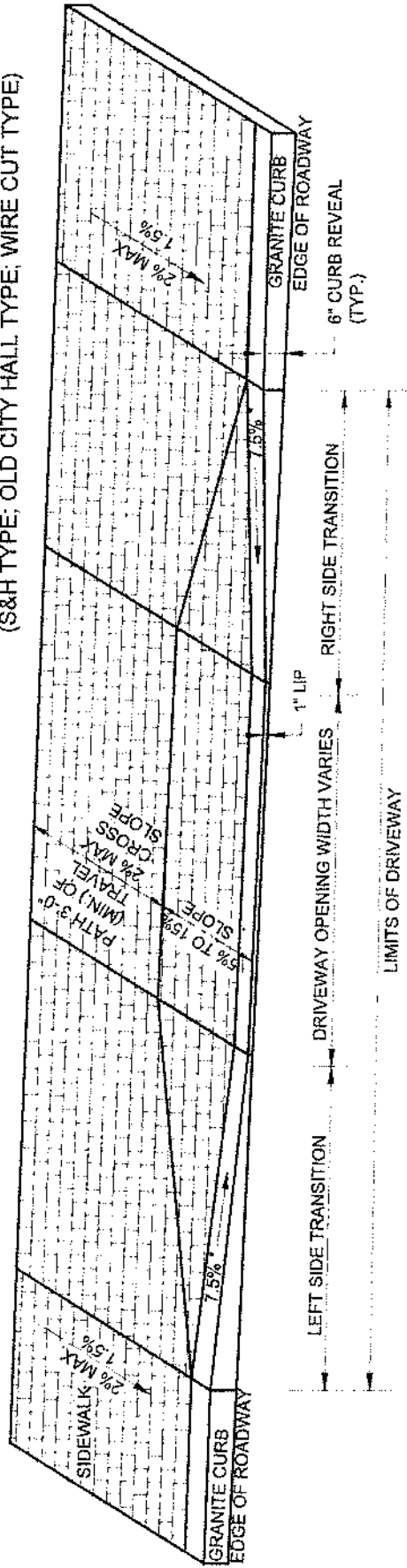
Wayne S. Amaral, Deputy Director

## ***Content***

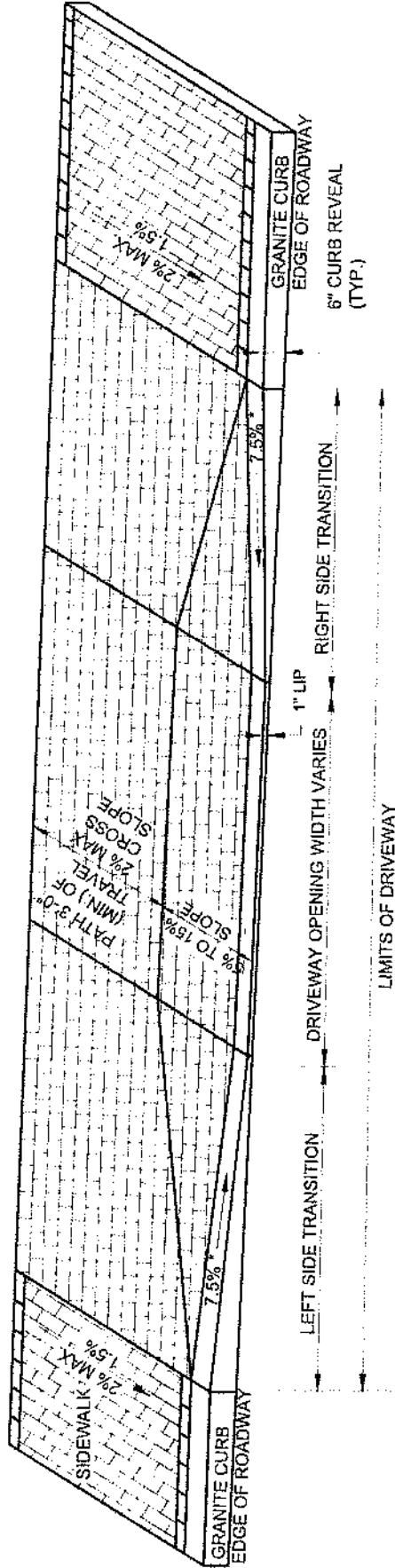
| <b><i>Description</i></b>  | <b><i>Drawing #</i></b> |
|--|-------------------------|
| Brick Driveway Apron Detail Type 1-A and Type 2-A                        | NBPT 1000               |
| Brick Driveway Apron Detail Type 1-A and Type 2-A (color)                | NBPT 1000C              |
| Brick Driveway Apron Detail Type 1-B and Type 2-B                        | NBPT 1100               |
| Brick Driveway Apron Detail Type 1-B and Type 2-B (color)                | NBPT 1100C              |
| Brick Driveway Apron Detail Type 1-C                                     | NBPT 1200               |
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| Cement Concrete Driveway Apron Detail – D stone curb                     | NBPT 1500               |
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| Brick Sidewalk Layout  | NBPT 3800               |
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|   |            |
|---|------------|
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| Wheelchair Ramp Transition Length                                       | NBPT 4900  |
| Asphalt Curb  | NBPT 5000  |
| Standard Crosswalk  | NBPT 6000  |

NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-A)**



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 2-A)**



**BRICK DRIVEWAY APRON DETAIL**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

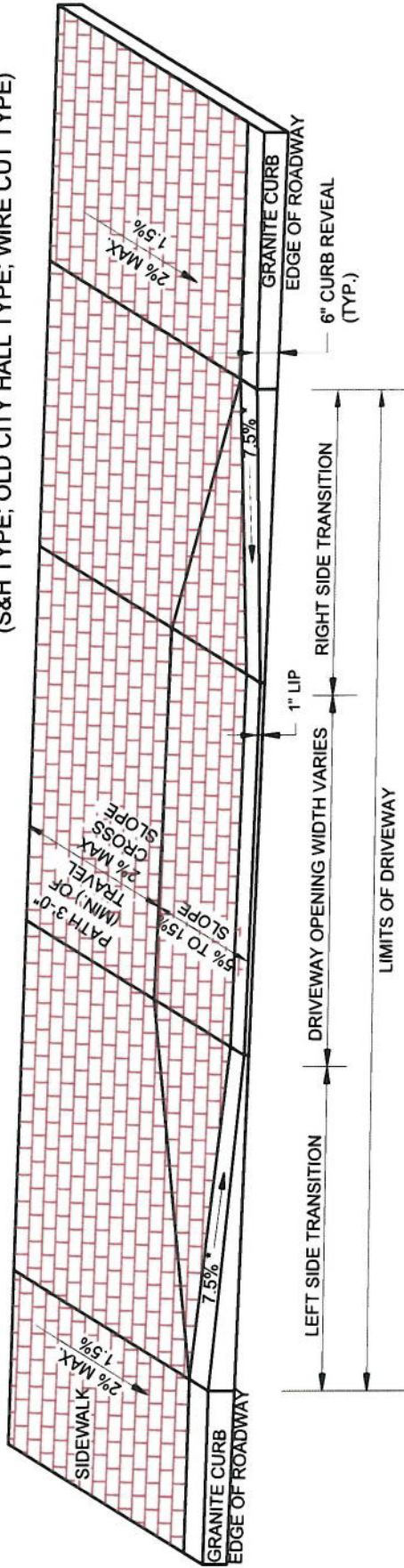
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ISSUE DATE 4/28/15

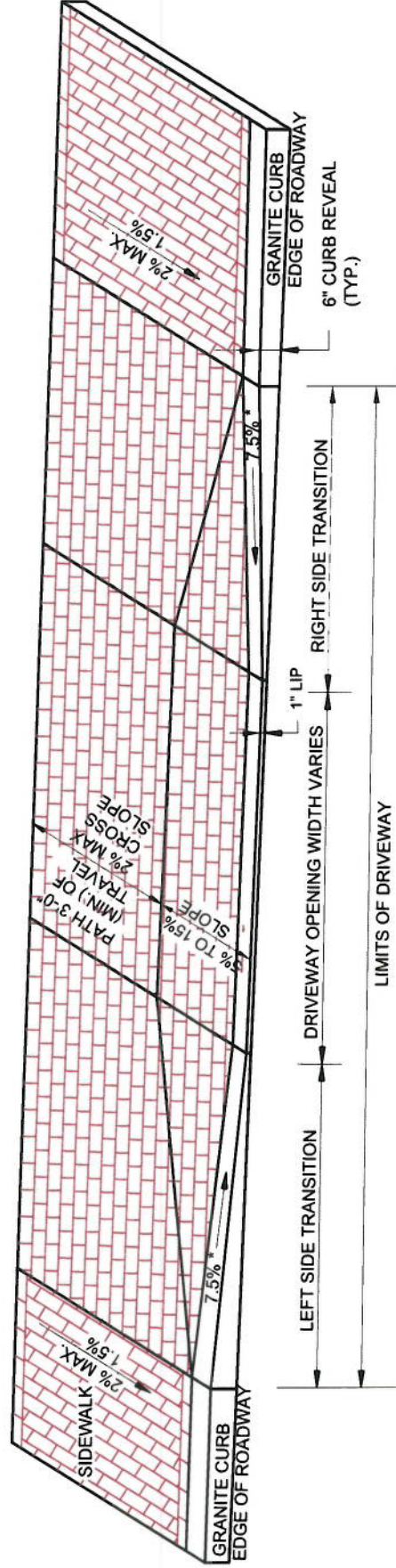
SPEC. SECTION REF#:

DRAWING: NBPT 1000

NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE: OLD CITY HALL TYPE; WIRE CUT TYPE)



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-A)**



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 2-A)**

**BRICK DRIVEWAY APRON DETAIL**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

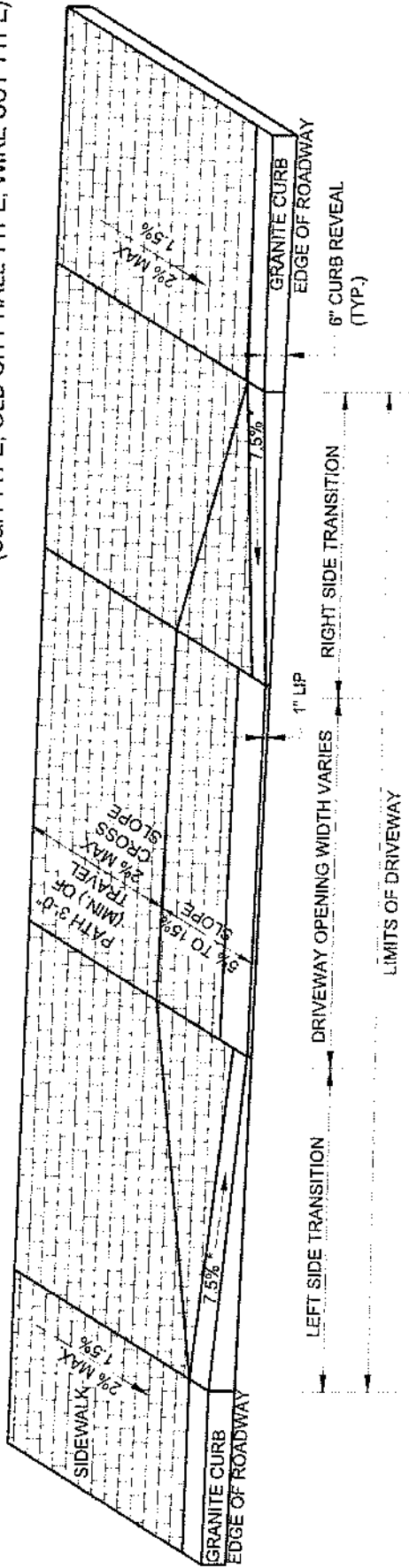
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

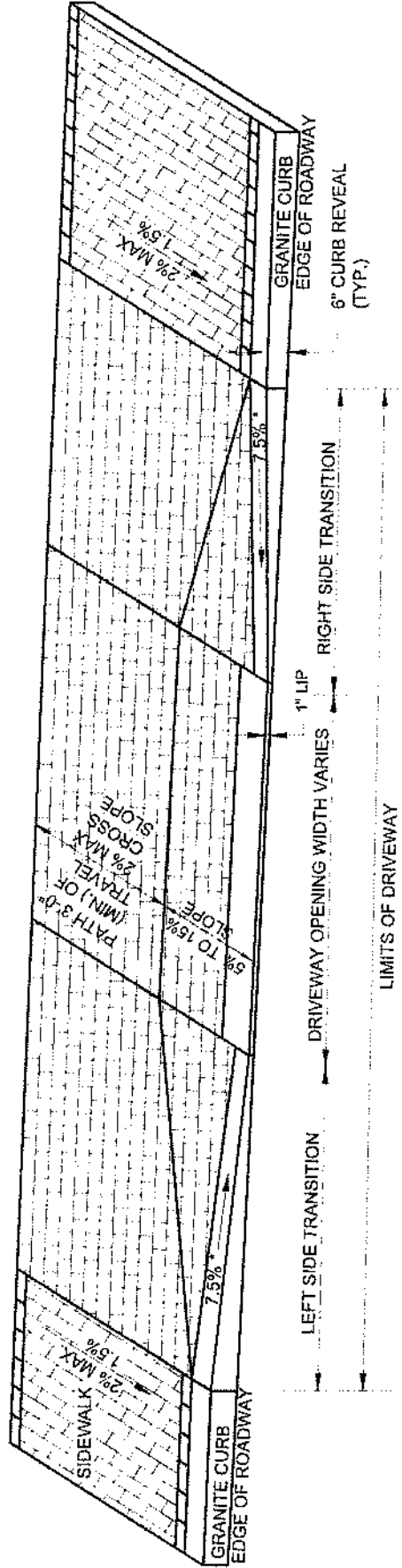
DRAWING: NBPT 1000C



NOTE: BRICK TYPE TO BE DETERMINED BY DPS.  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-B)**



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 2-B)**



**BRICK DRIVEWAY APRON DETAIL**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

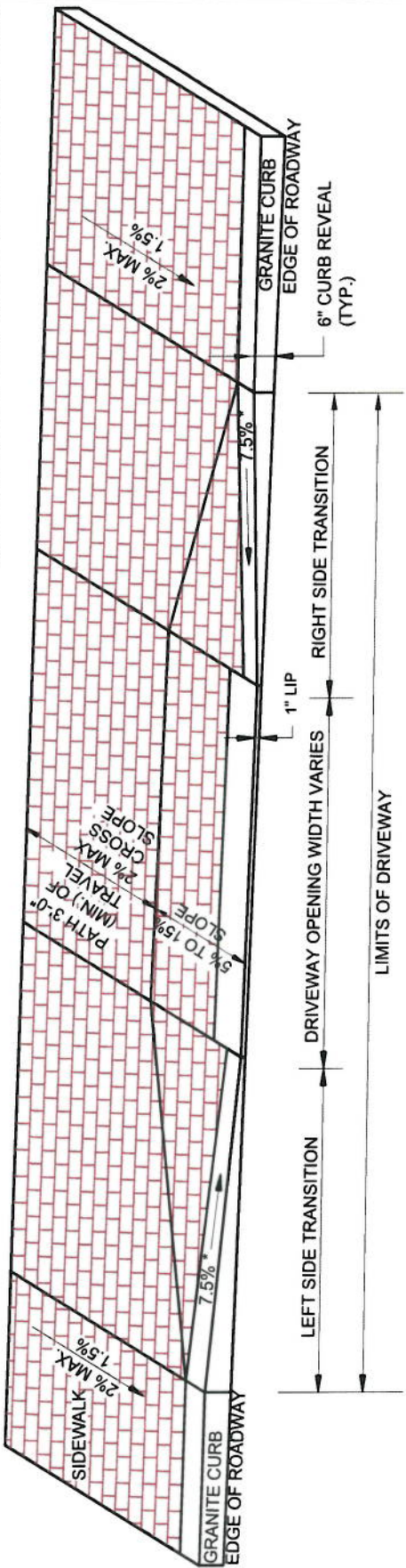
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ISSUE DATE 4/28/15 SPEC. SECTION REF#:

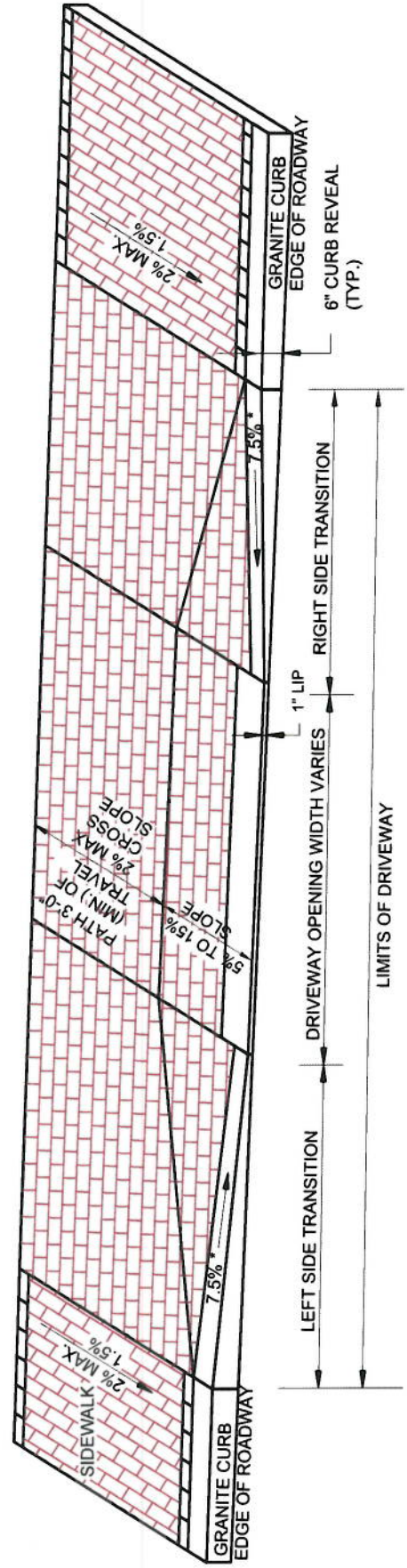
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NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-B)**



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 2-B)**



**BRICK DRIVEWAY APRON DETAIL**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

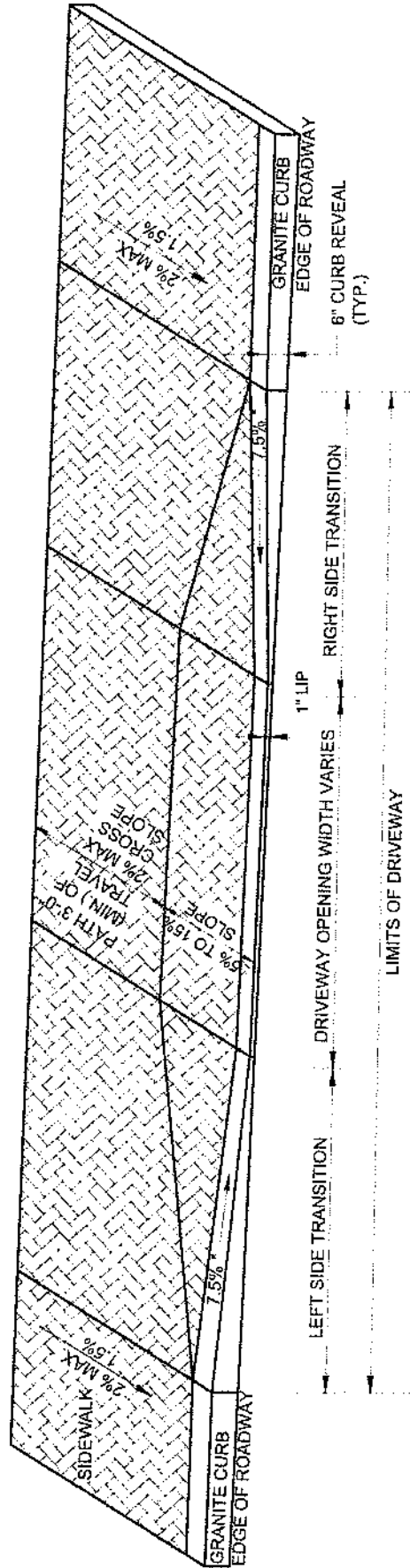
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ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 1100C

NOTE: BRICK TYPE TO BE DETERMINED BY DPS.  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-C)



**BRICK DRIVEWAY APRON DETAIL**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

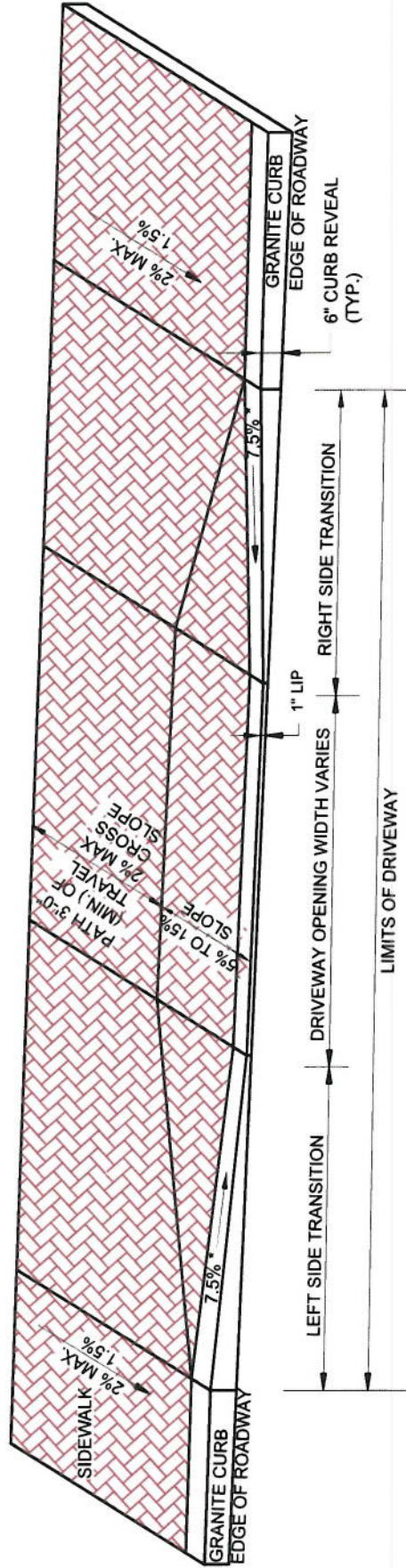
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ISSUE DATE 4/28/15 SPEC. SECTION REF#:

DRAWING: NBPT 1200



NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**BRICK DRIVEWAY APRON & SIDEWALK (TYPE 1-C)**



**BRICK DRIVEWAY APRON DETAIL**

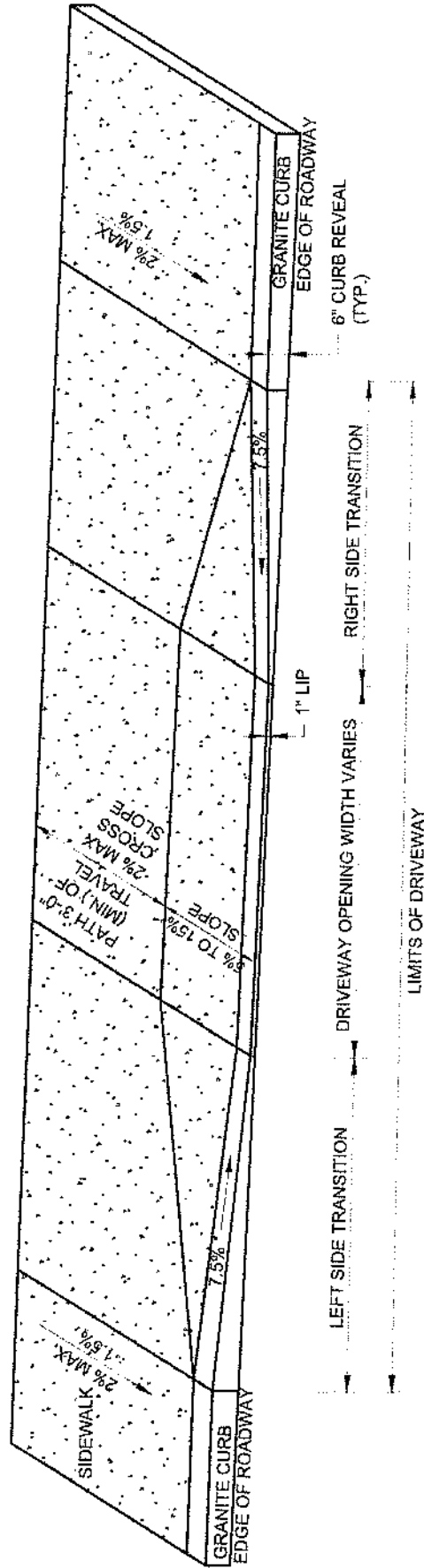
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 1200C



# CEMENT CONCRETE DRIVEWAY APRON DETAIL

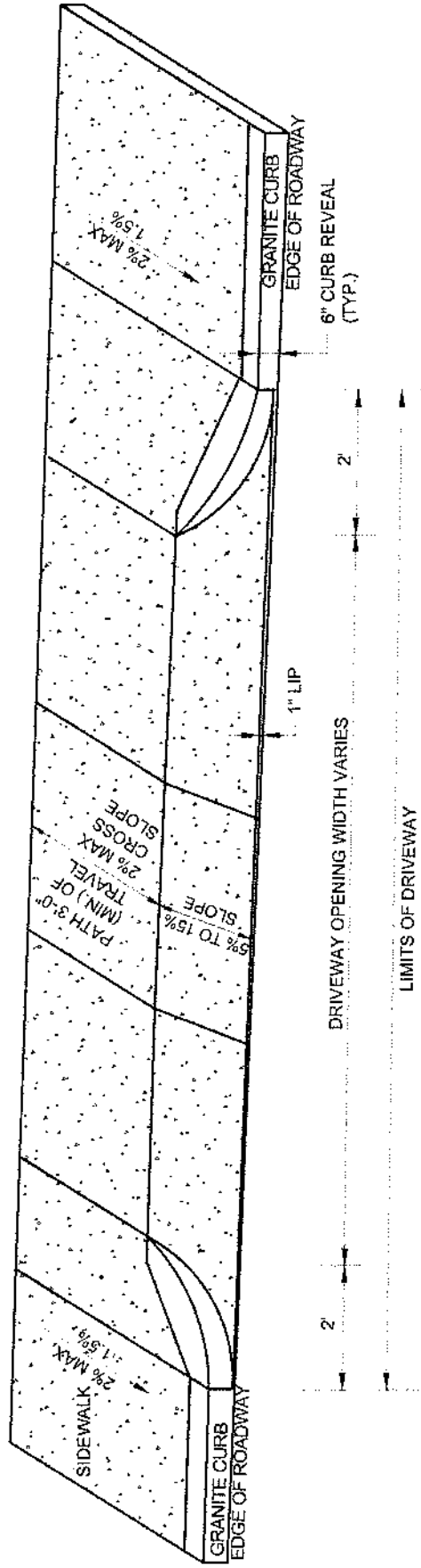
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#: DRAWING: NBPT 1400





# CEMENT CONCRETE DRIVEWAY APRON DETAIL (TYPE 2)

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

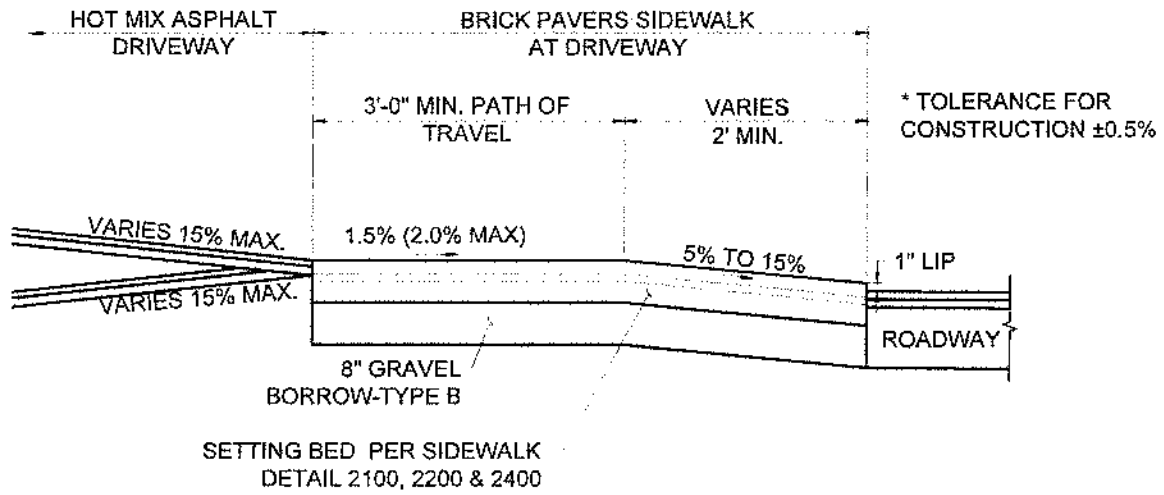
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

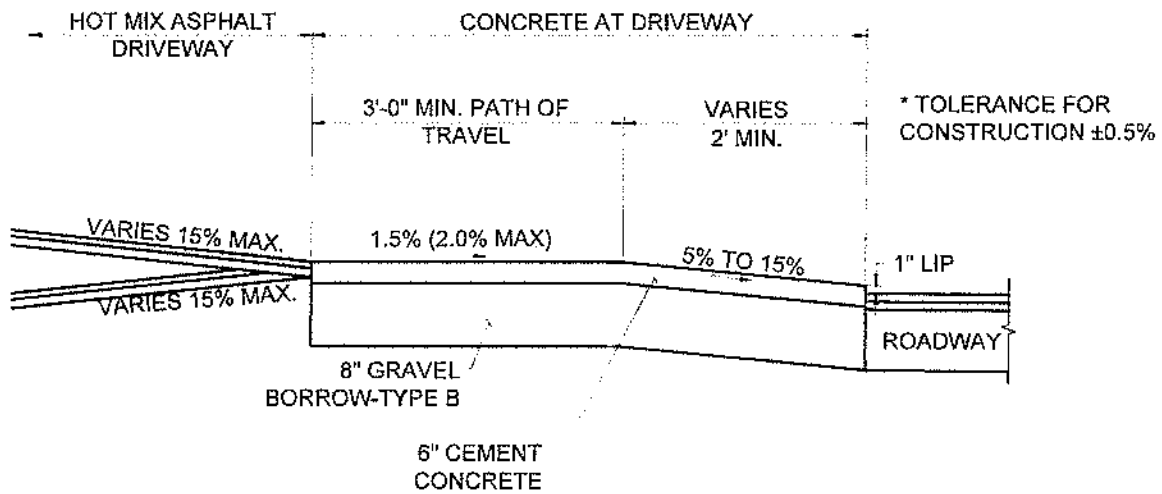
DRAWING: NBPT 1500



NOTE: BRICK TYPE TO BE DETERMINED BY DPS  
 TYPE WILL BE ONE OF THE FOLLOWING:  
 S&H, OLD CITY HALL, WIRE CUT



### BRICK DRIVEWAY SECTION



### CONCRETE DRIVEWAY SECTION



## DRIVEWAY APRON (CROSS-SECTION)

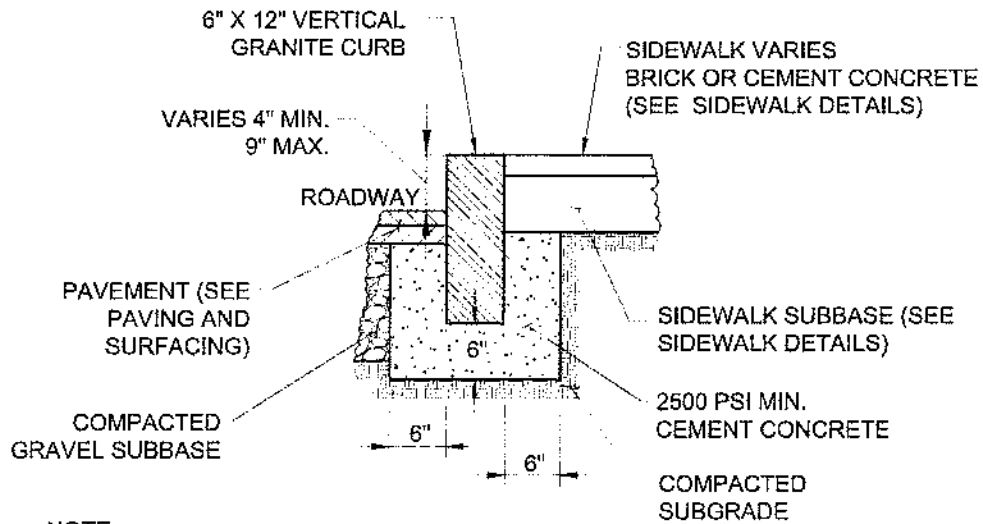
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

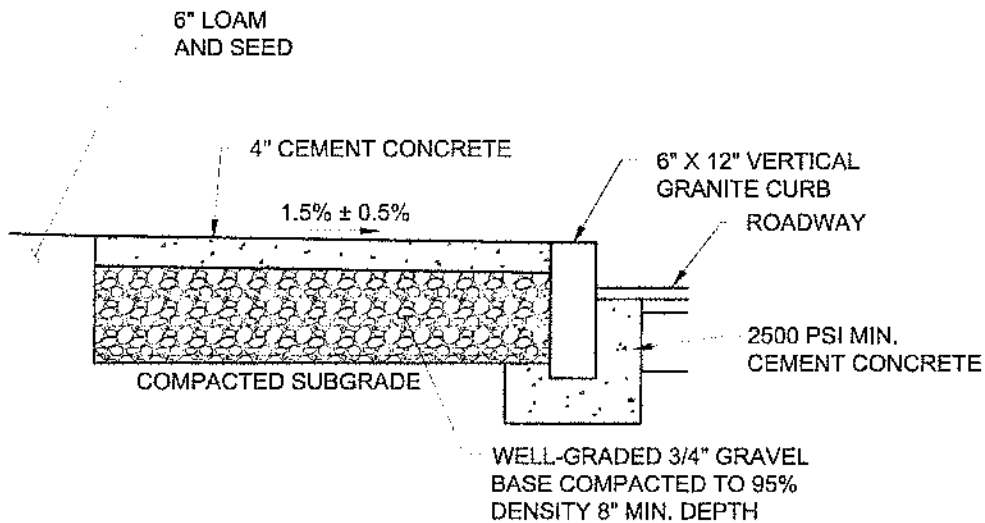
DRAWING: NBPT 1600



NOTE:

CUT NEAT LINE 6" FROM CURB LINE AND REMOVE BASE AND GRAVEL. REPLACE WITH 2500 PSI MINIMUM CEMENT CONCRETE. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

## VERTICAL CURB



## CEMENT CONCRETE SIDEWALK



VERTICAL GRANITE CURB & CEMENT CONCRETE SIDEWALK (CROSS-SECTION)

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

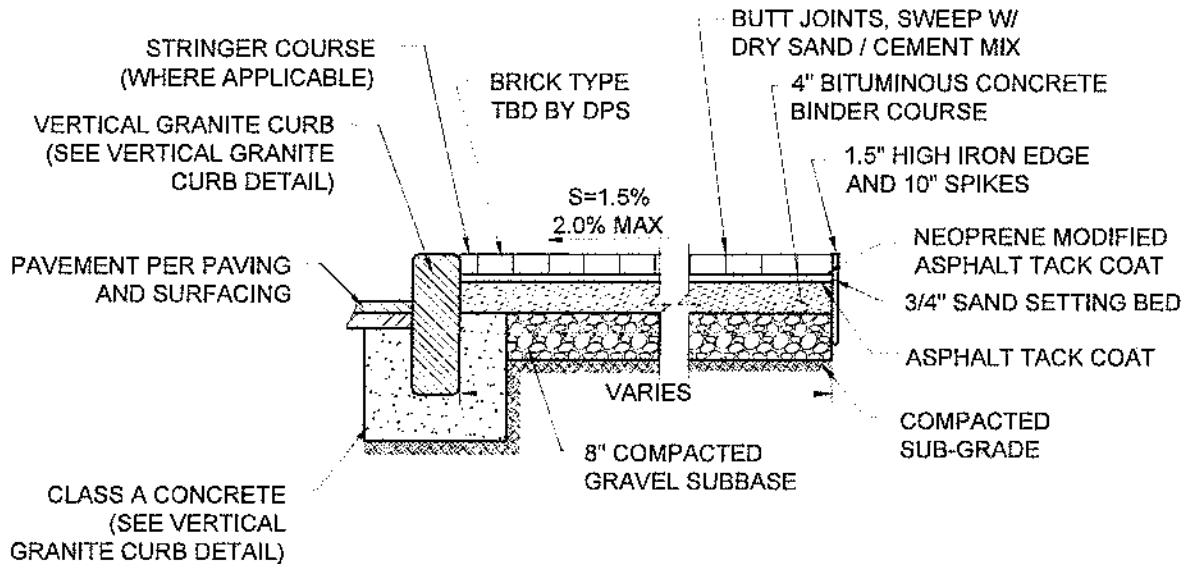
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 2000



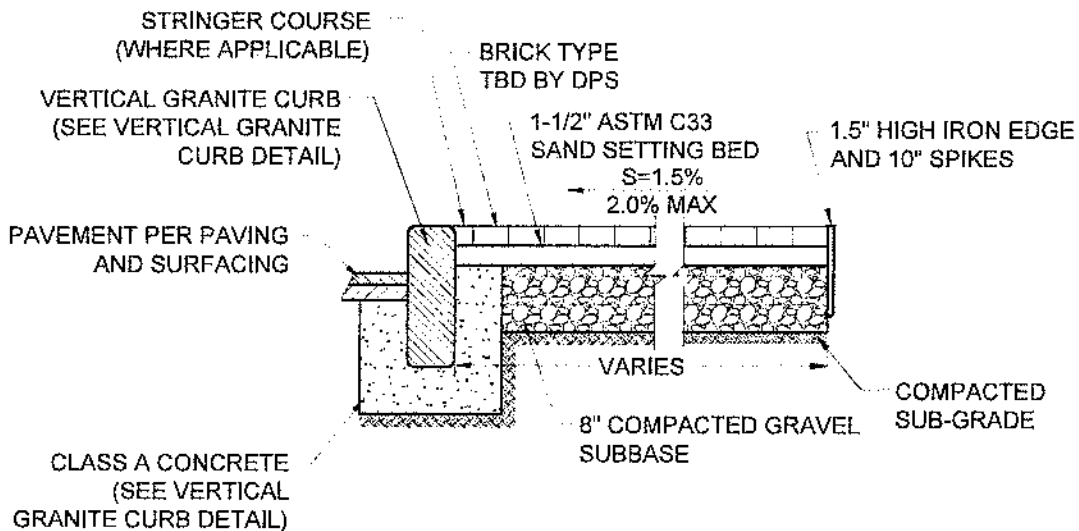
NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**NOTES:**

1. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS REVISION IS NECESSARY TO COMPLY WITH ADA/AAB REGULATIONS OR OTHERWISE NOTED.
2. BITUMINOUS CONCRETE BINDER COURSE SHALL BE 6" DEPTH (IN TWO 3" COURSES) AT DRIVEWAYS. REFER TO PROJECT DRAWINGS OR ENGINEER'S INSTRUCTIONS FOR LOCATIONS

**ASPHALT BASE BRICK SIDEWALK**



**SAND BASE BRICK SIDEWALK**



**BRICK SIDEWALK CROSS SECTION**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

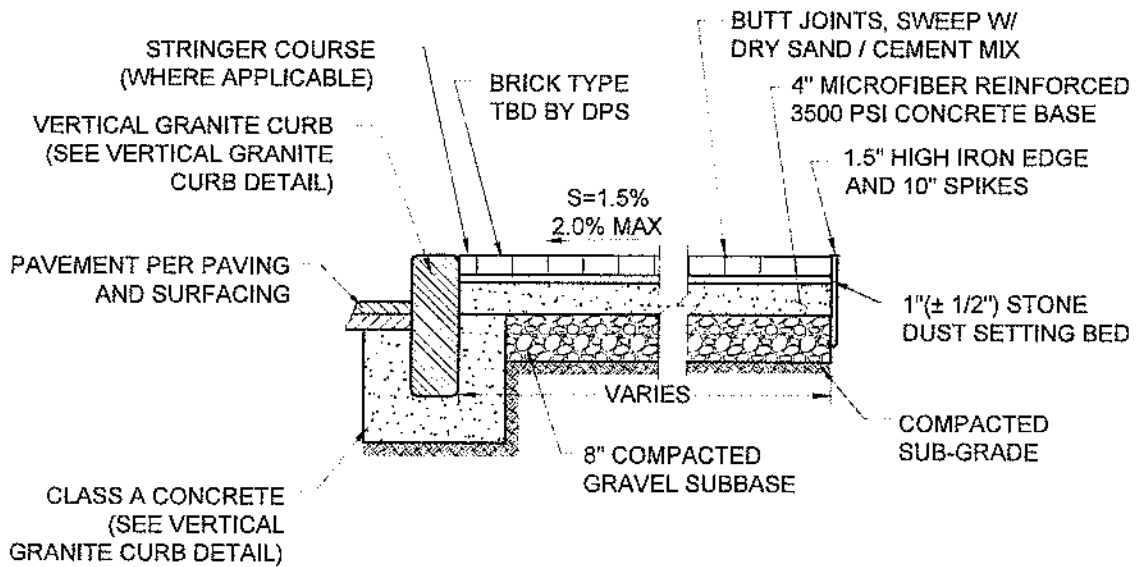
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ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 2100

NOTE: BRICK TYPE TO BE DETERMINED BY DPS:  
 (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)



**NOTES:**

1. SIDEWALKS SHALL MATCH WIDTH AND SLOPE OF EXISTING SIDEWALKS UNLESS REVISION IS NECESSARY TO COMPLY WITH ADA/AAB REGULATIONS OR OTHERWISE NOTED.



**BRICK SIDEWALK CROSS SECTION FOR CEMENT BASE**

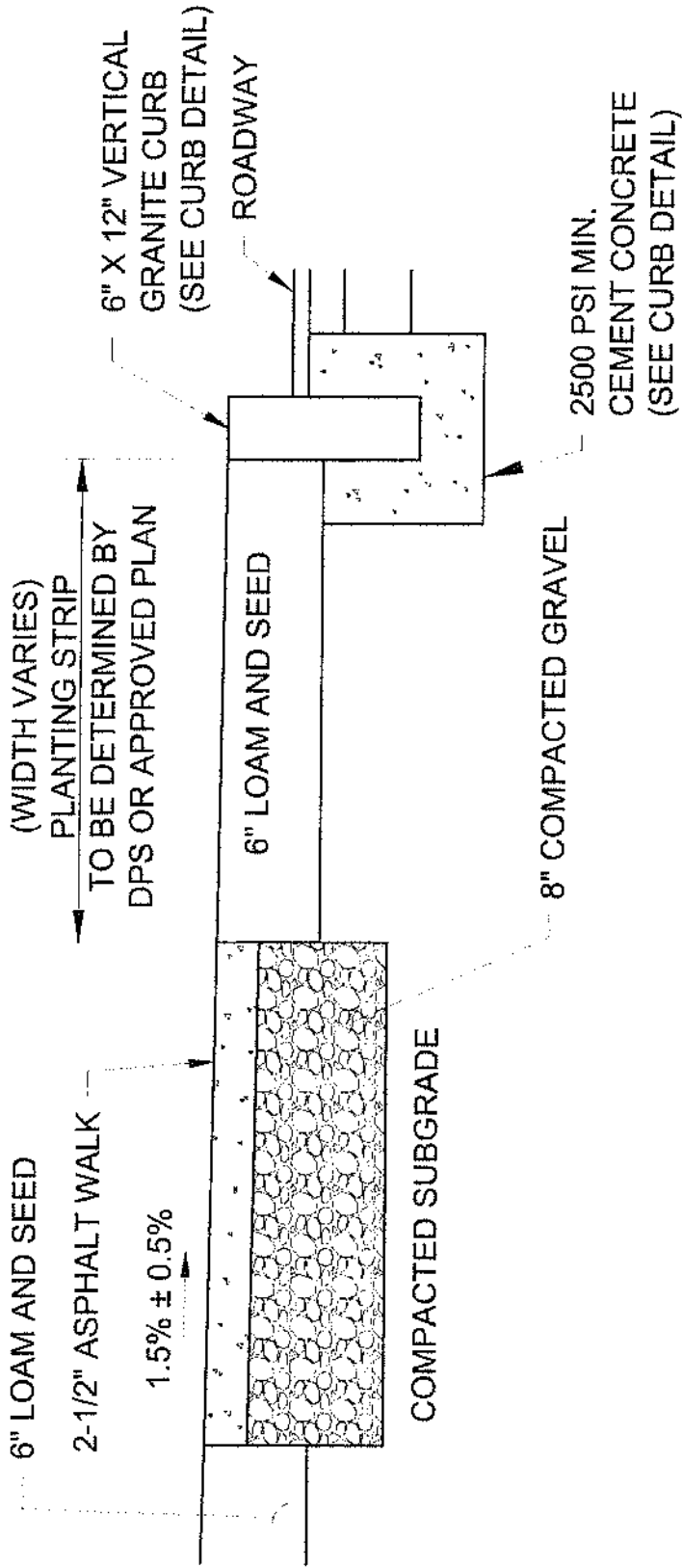
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 2200



### ASPHALT SIDEWALK (CROSS-SECTION)

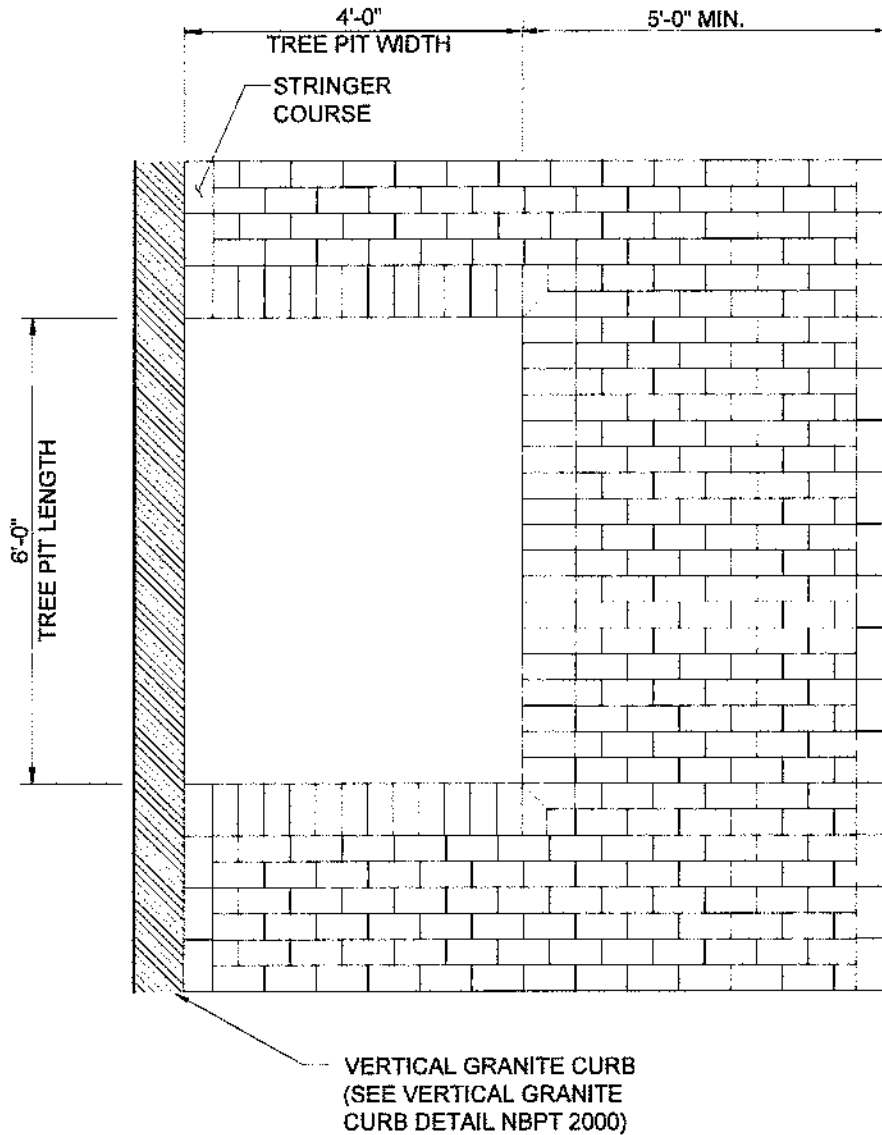
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 2400



**9' WIDTH AND GREATER BRICK SIDEWALK LAYOUT WITH TREE PIT**

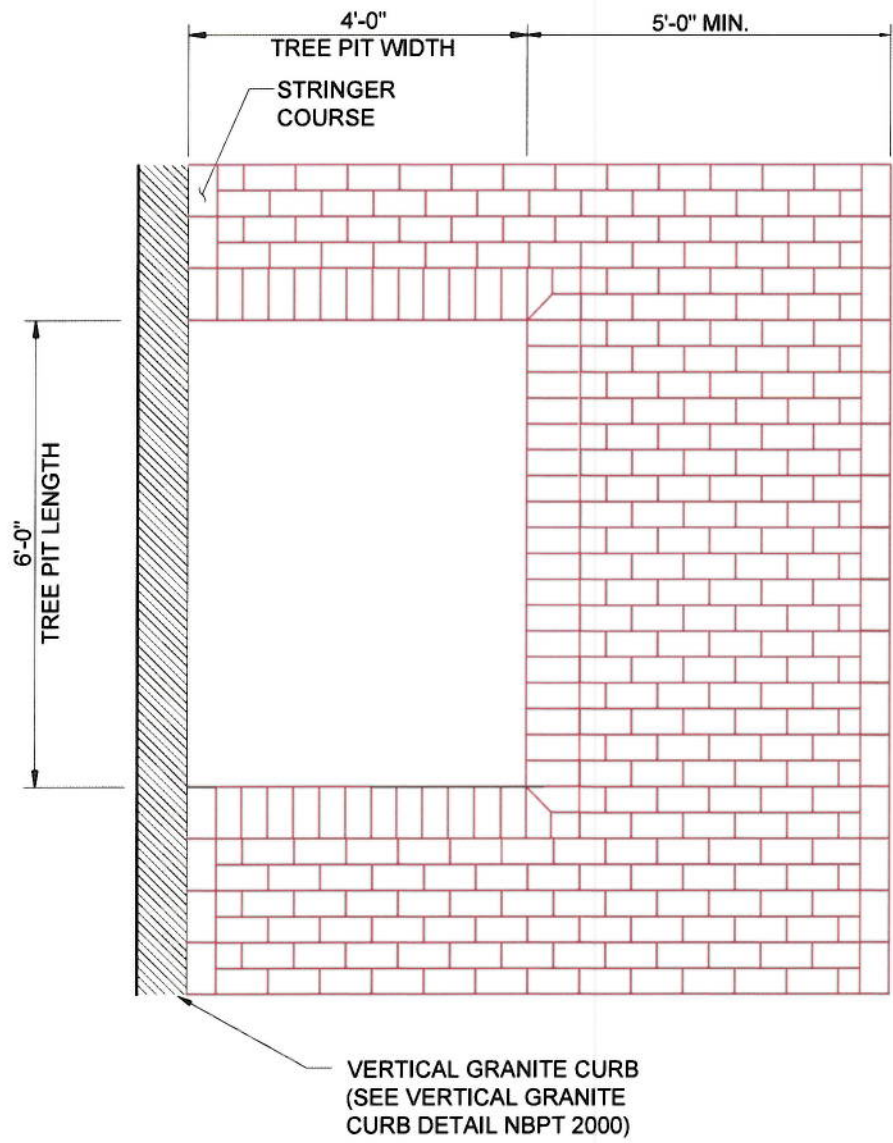
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3000



**9' WIDTH AND GREATER BRICK SIDEWALK LAYOUT WITH TREE PIT**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

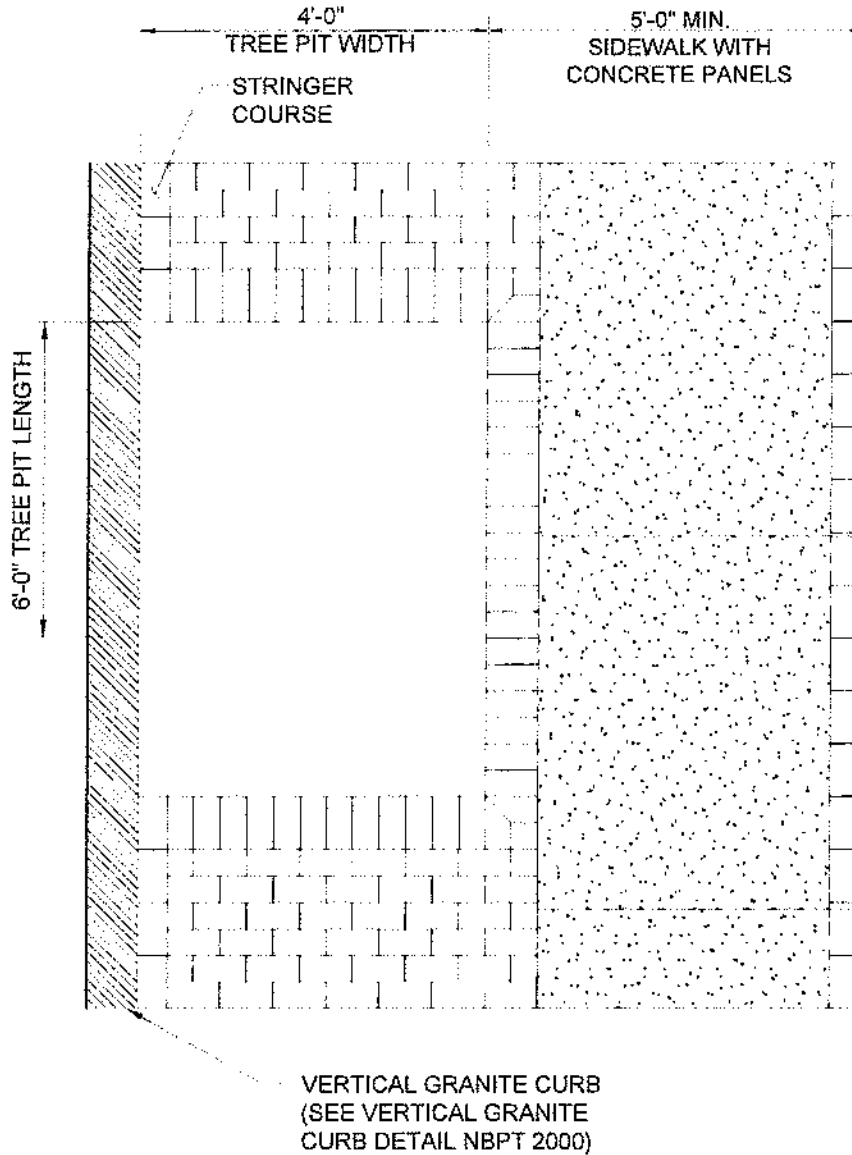
NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3000C





**9' WIDTH AND GREATER SIDEWALK LAYOUT W/TREE PIT (SPECIAL)**

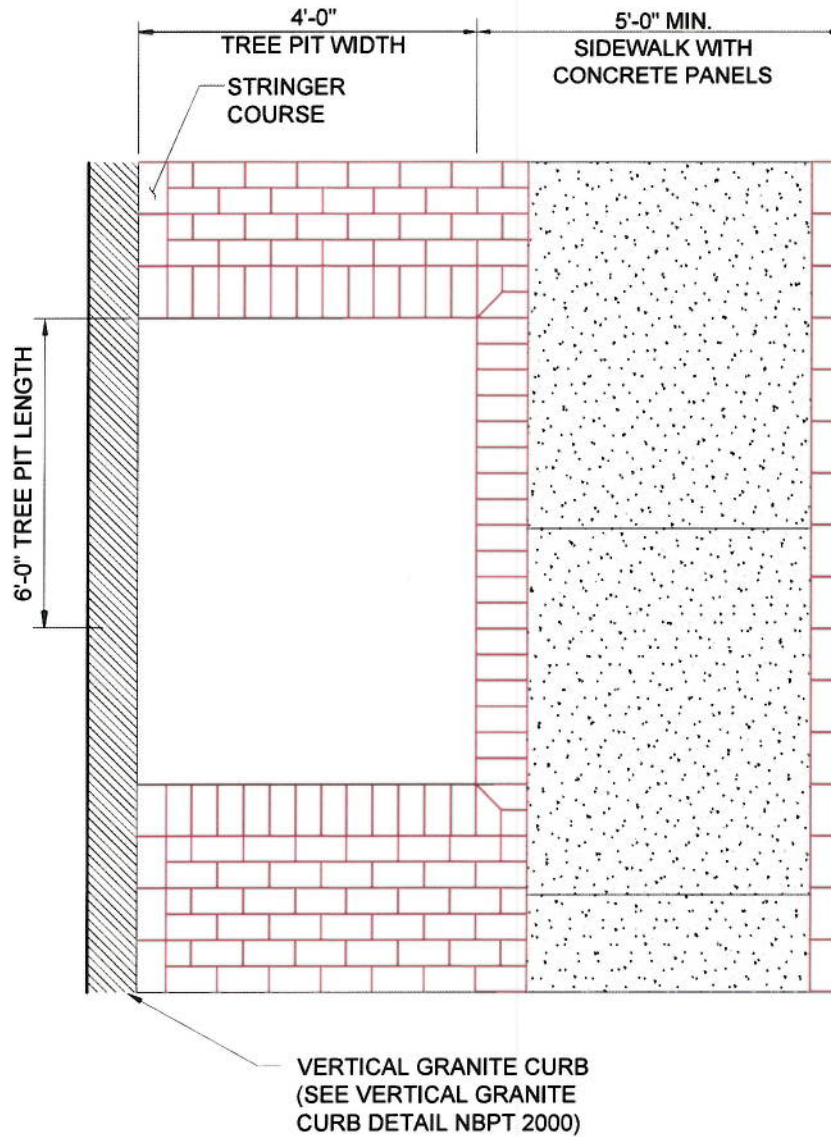
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3100



## 9' WIDTH AND GREATER SIDEWALK LAYOUT W/TREE PIT (SPECIAL)

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

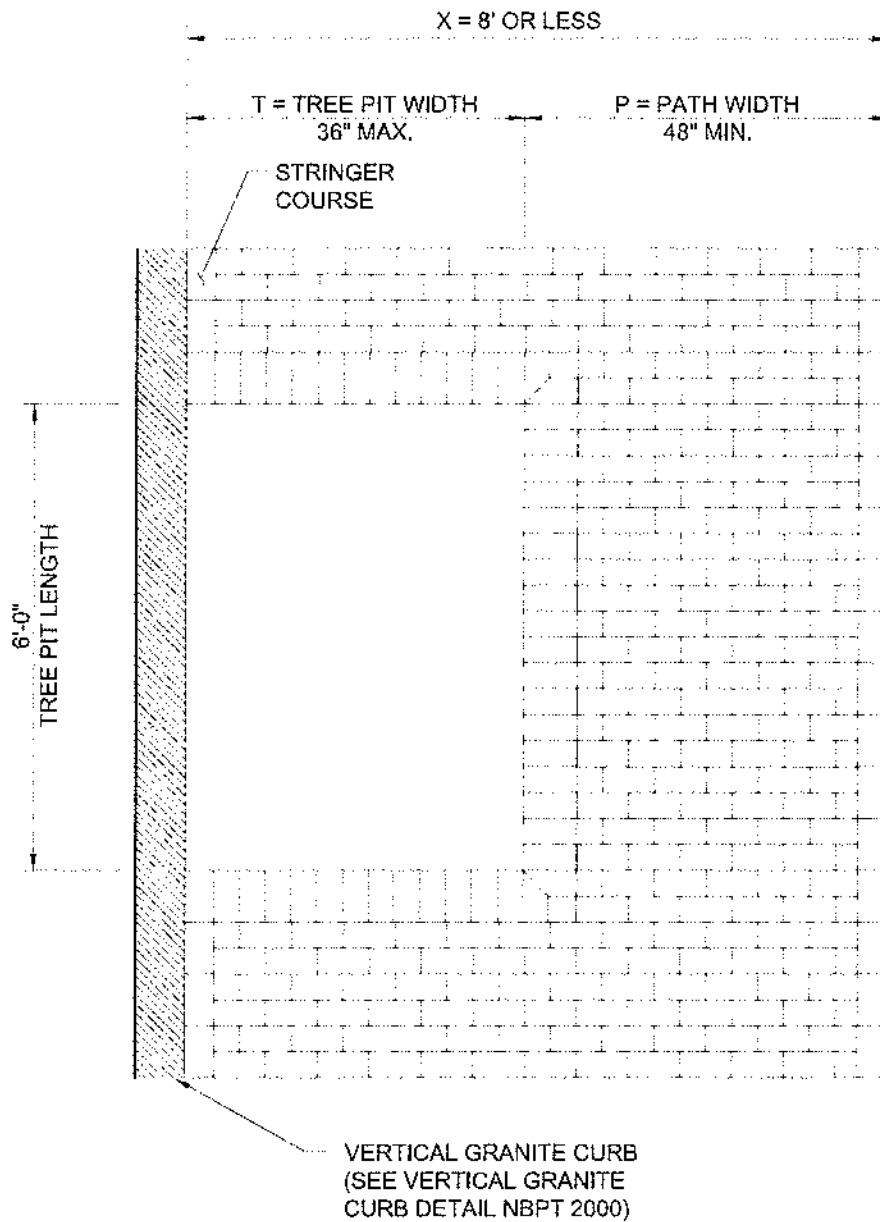
NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3100C

THIS SAME DETAIL MAY BE  
 USED FOR BRICK, CONCRETE  
 OR ASPHALT TYPE SIDEWALKS



TREE PIT WIDTH "T" (36" MAX.) IS  
 DETERMINED BY SUBTRACTING PATH  
 WIDTH "P" (48" MIN.) FROM TOTAL  
 SIDEWALK WIDTH "X"



**8' WIDTH AND LESS SIDEWALK LAYOUT W/TREE PIT**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

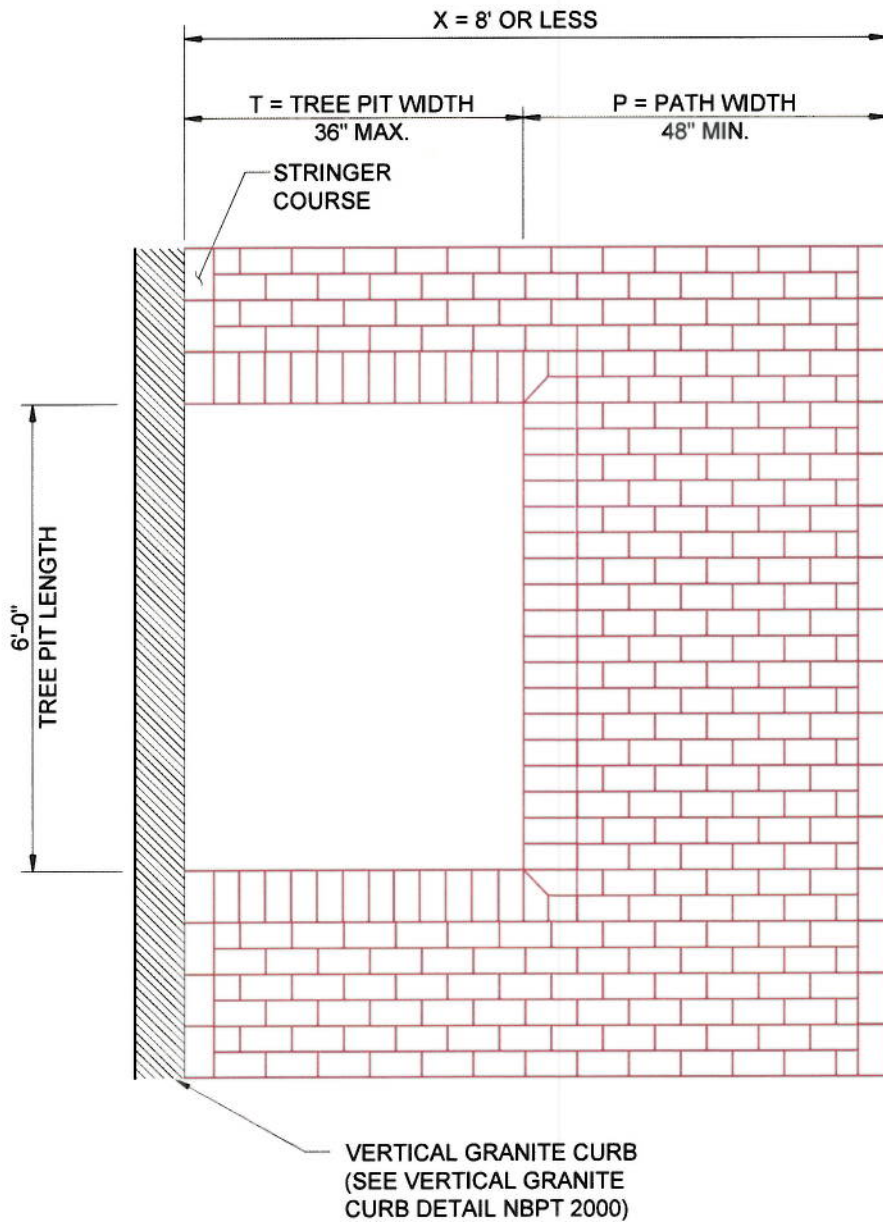
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ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3400

THIS SAME DETAIL MAY BE  
USED FOR BRICK, CONCRETE  
OR ASPHALT TYPE SIDEWALKS



TREE PIT WIDTH "T" (36" MAX.) IS  
DETERMINED BY SUBTRACTING PATH  
WIDTH "P" (48" MIN.) FROM TOTAL  
SIDEWALK WIDTH "X"



## 8' WIDTH AND LESS SIDEWALK LAYOUT W/TREE PIT

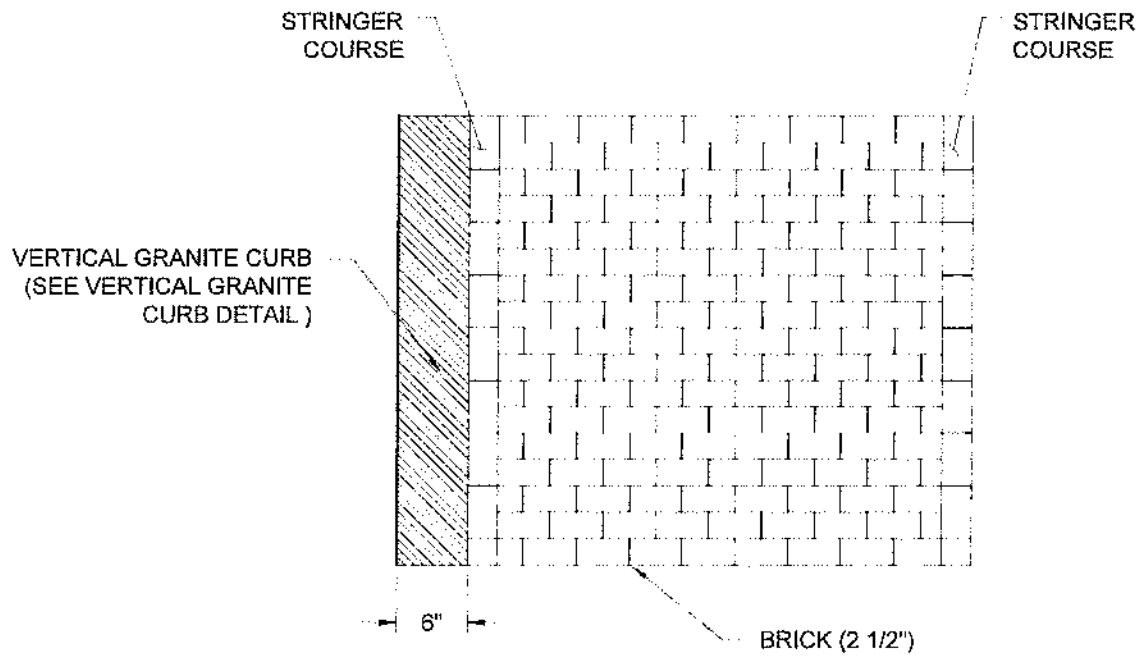
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 3400C



NOTES:

1. BRICK TYPE TO BE DETERMINED BY DPS: (S&H TYPE; OLD CITY HALL TYPE; WIRE CUT TYPE)
2. STRINGER COURSES/OUTLINES MAY BE REQUIRED AROUND WHEELCHAIR RAMPS OR OTHER TYPES OF MATERIAL CHANGES.



**BRICK SIDEWALK LAYOUT**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

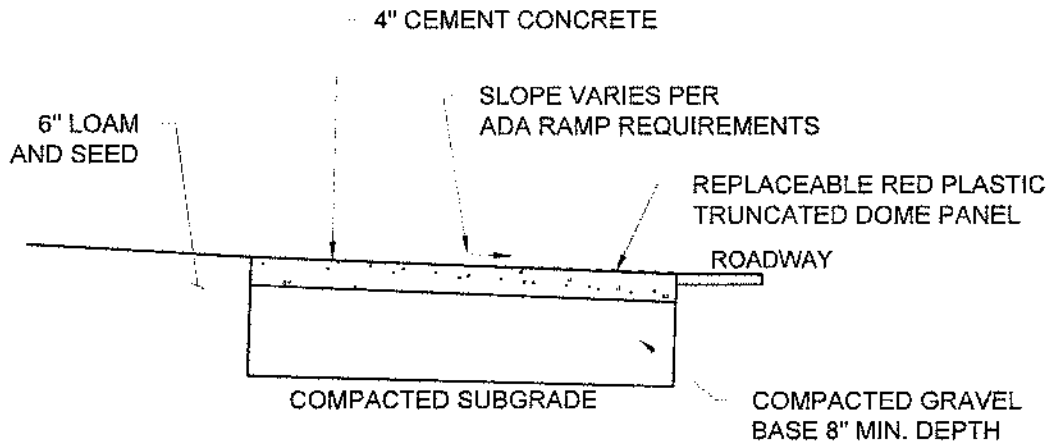
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ISSUE DATE 4/28/15

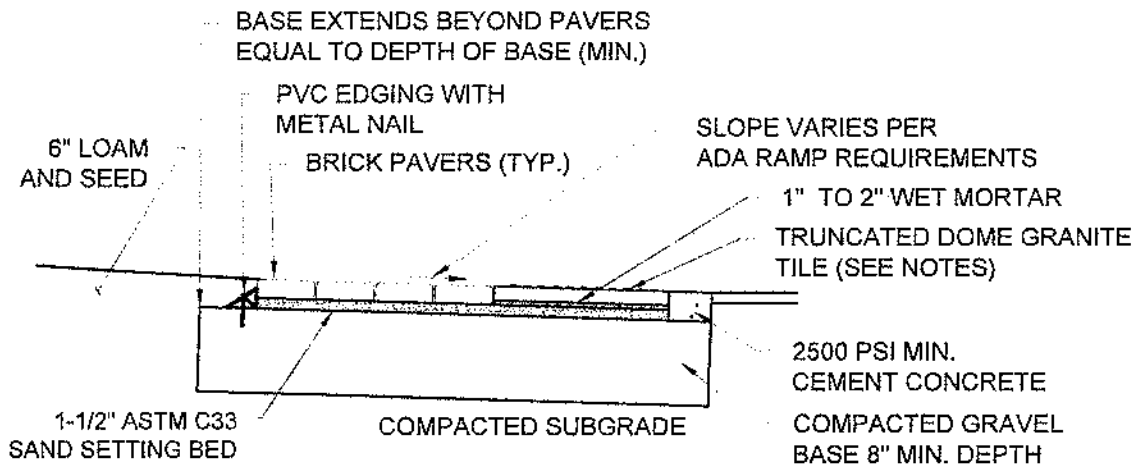
SPEC. SECTION REF#:

DRAWING: NBPT 3800





### CEMENT CONCRETE WHEELCHAIR RAMP



### BRICK PAVER WHEELCHAIR RAMP



## WHEELCHAIR RAMPS AND DETECTABLE WARNING PANEL (CROSS-SECTION)

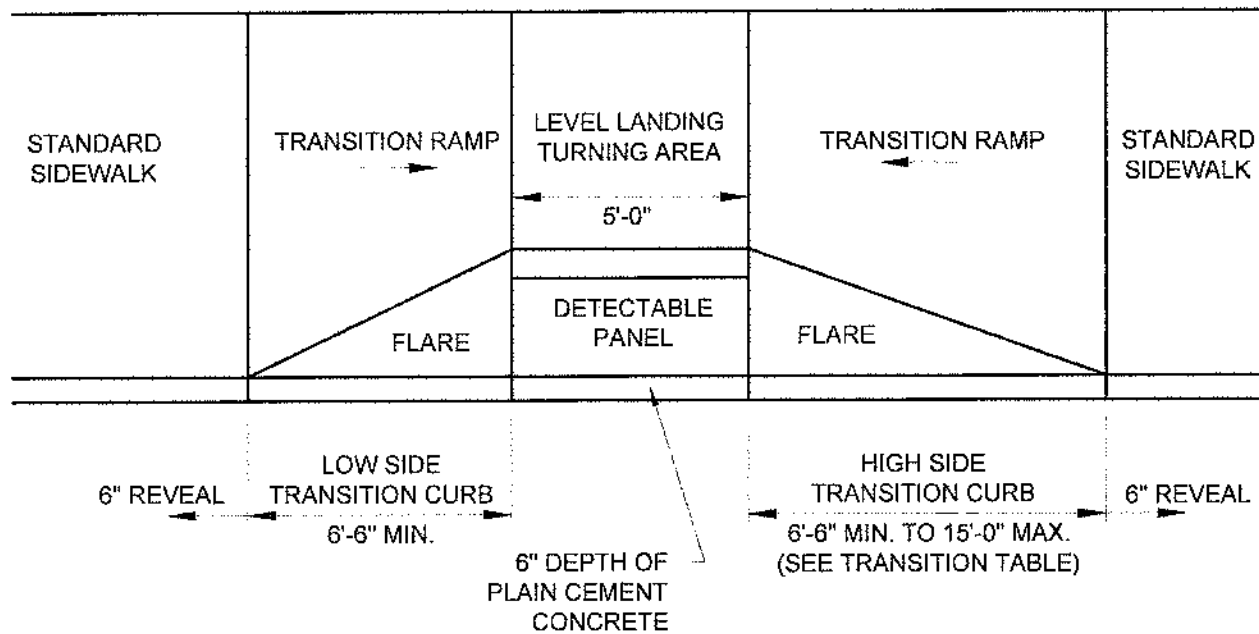
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

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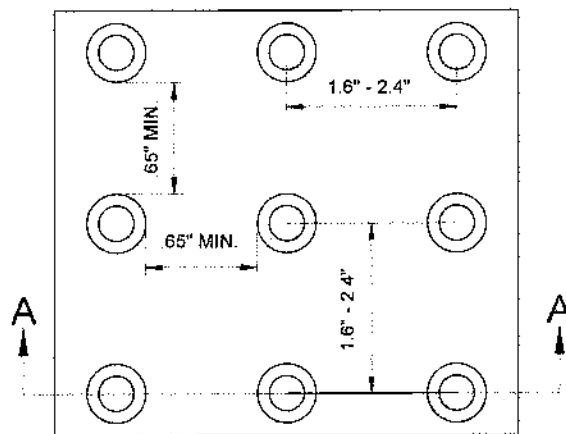
ISSUE DATE 4/28/15

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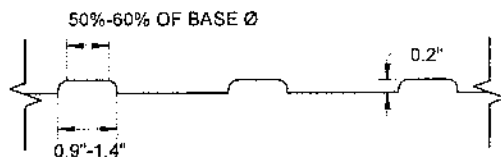
DRAWING: NBPT 4000



**TYPICAL WHEELCHAIR RAMP INSTALLATION**



**DETAIL OF DETECTABLE WARNING PANEL**



NOTE: DETECTABLE WARNING PANEL COLOR SHALL BE FEDERAL YELLOW ON CONCRETE OR BRICK; BRICK RED ON CONCRETE ONLY

**SECTION A-A**



**WHEELCHAIR RAMPS AND DETECTABLE WARNING PANEL CROSS SECTIONS**

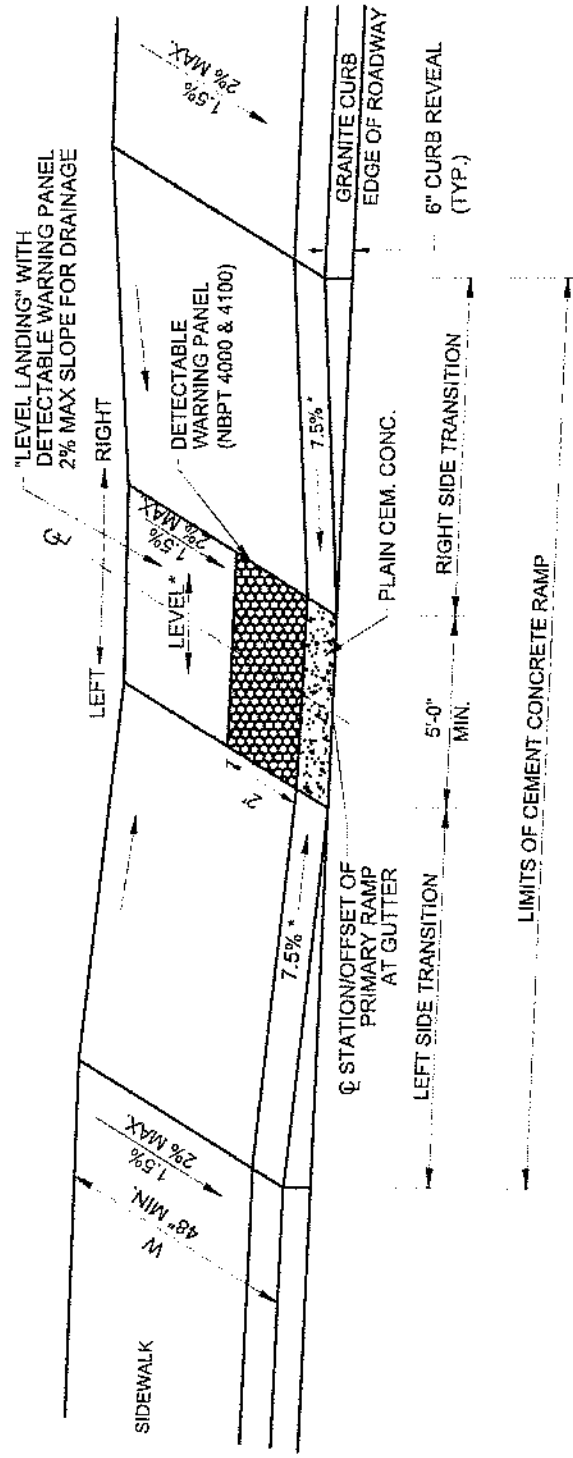
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4100



\* CONSTRUCTION TOLERANCE ±0.5%

# WHEELCHAIR RAMP ON NARROW SIDEWALK (WIDTH LESS THAN 6'-6")

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

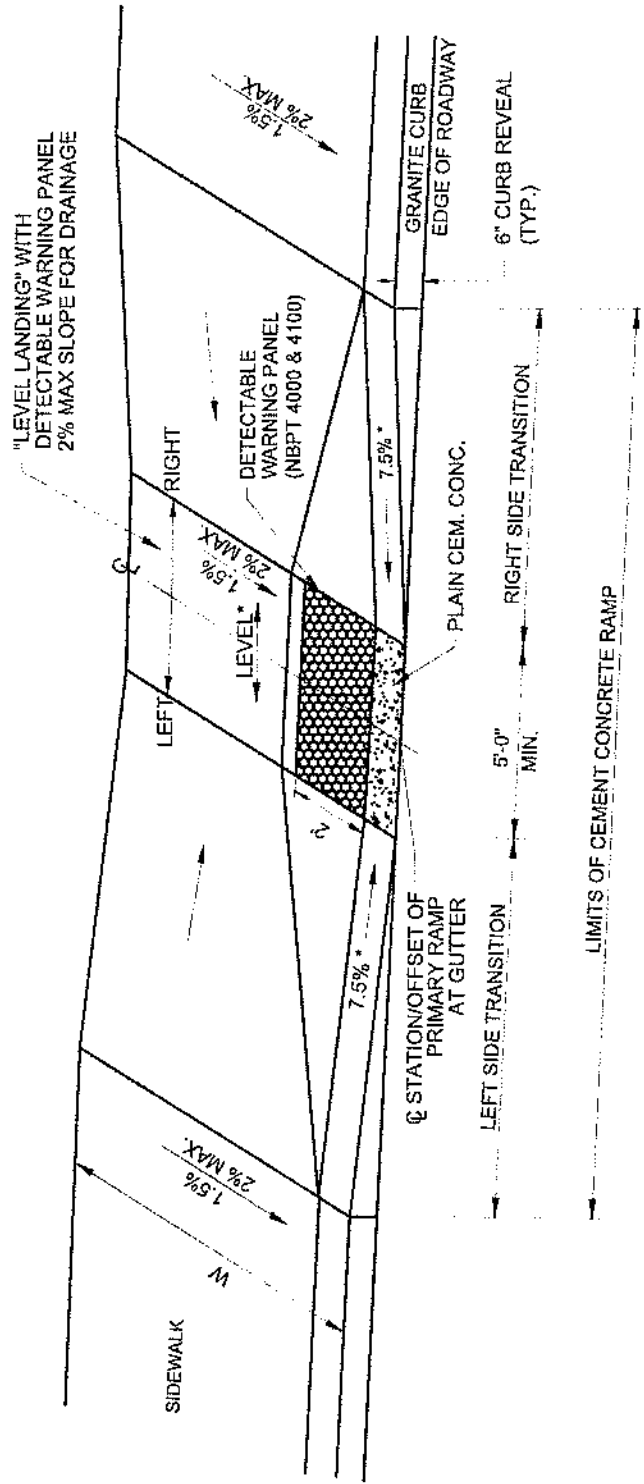
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ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4200





## WHEELCHAIR RAMP FOR MID-BLOCK LOCATION

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

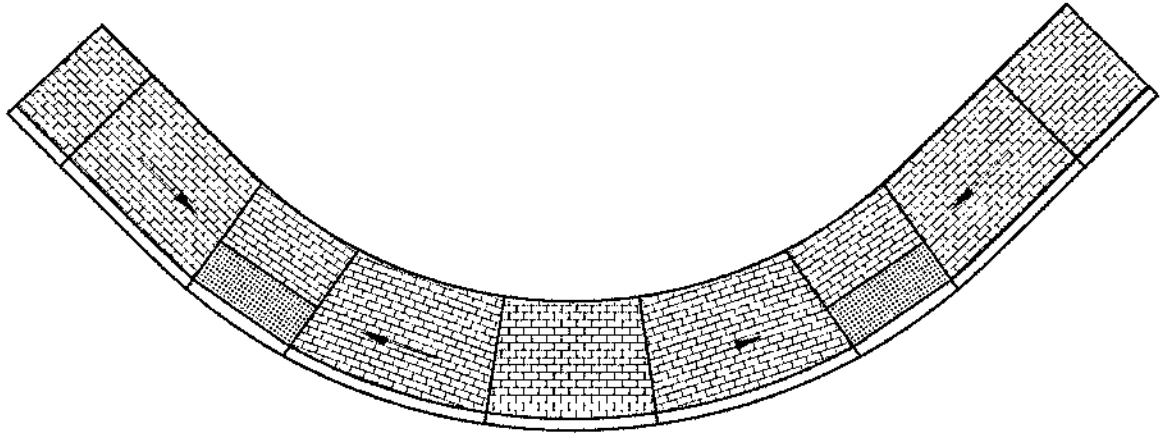
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ISSUE DATE 4/28/15

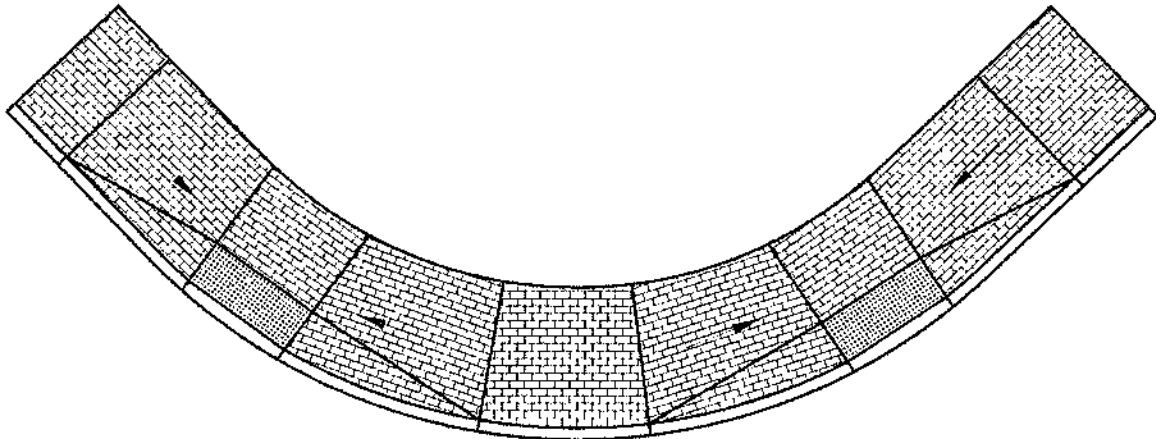
SPEC. SECTION REF#:

DRAWING: NBPT 4300





SIDEWALK WIDTH LESS THAN 6'-6"



SIDEWALK WIDTH 6'-6" AND WIDER



**WHEELCHAIR RAMPS AT INTERSECTION - BRICK**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

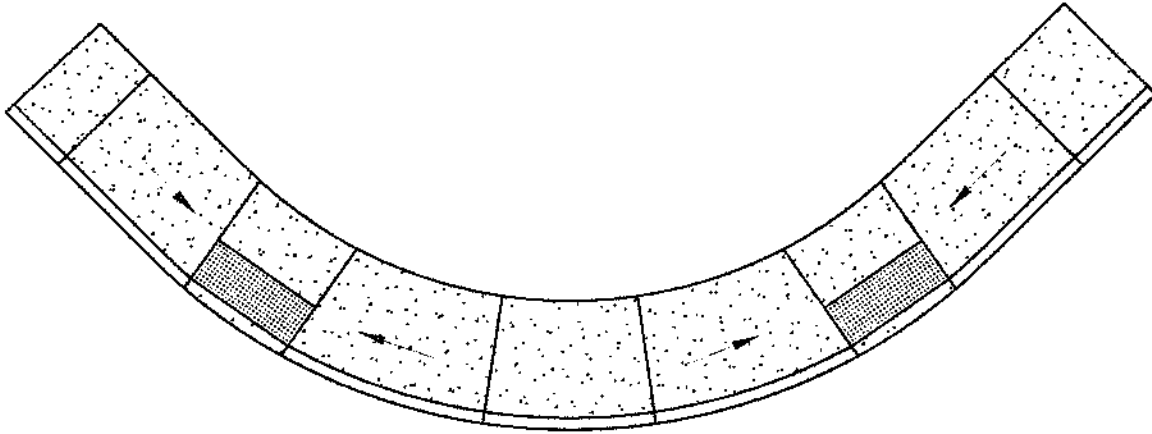
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ISSUE DATE 4/28/15

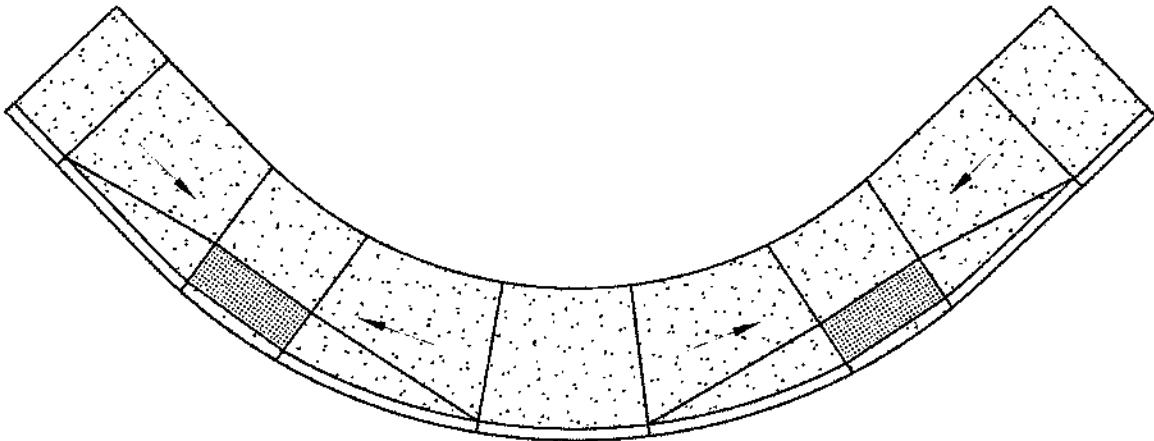
SPEC. SECTION REF#:

DRAWING: NBPT 4400





SIDEWALK WIDTH LESS THAN 6'-6"



SIDEWALK WIDTH 6'-6" AND WIDER



**WHEELCHAIR RAMPS AT INTERSECTION - CONCRETE**

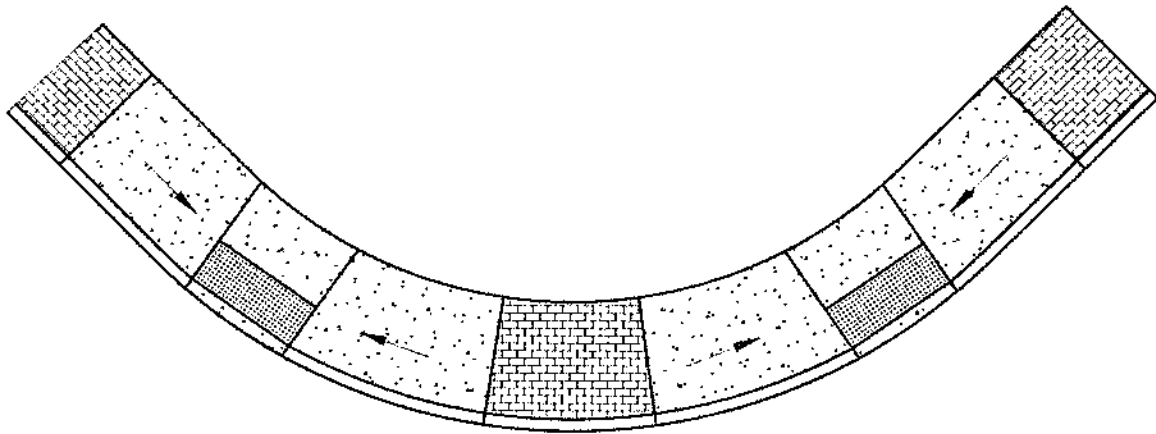
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

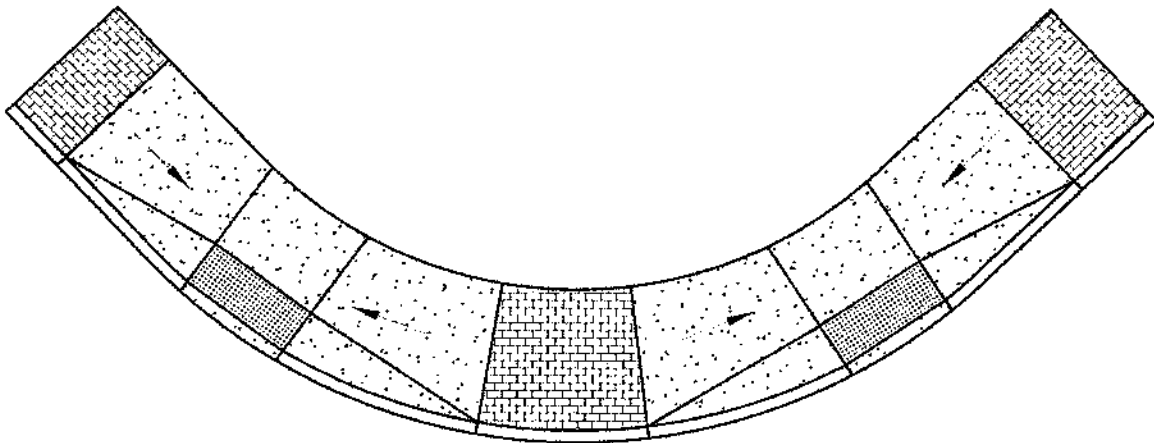
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4500



SIDEWALK WIDTH LESS THAN 6'-6"



SIDEWALK WIDTH 6'-6" AND WIDER



**WHEELCHAIR RAMPS AT INTERSECTION - BRICK/CONCRETE**

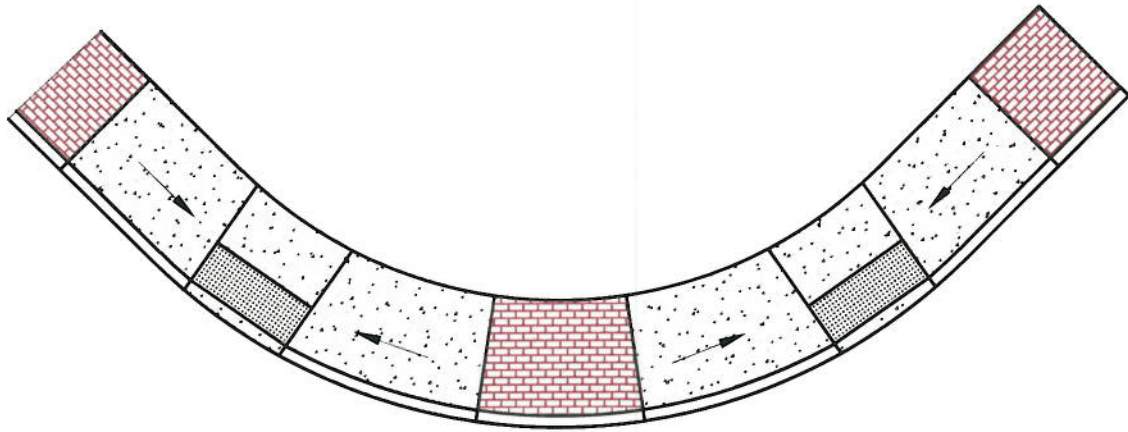
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

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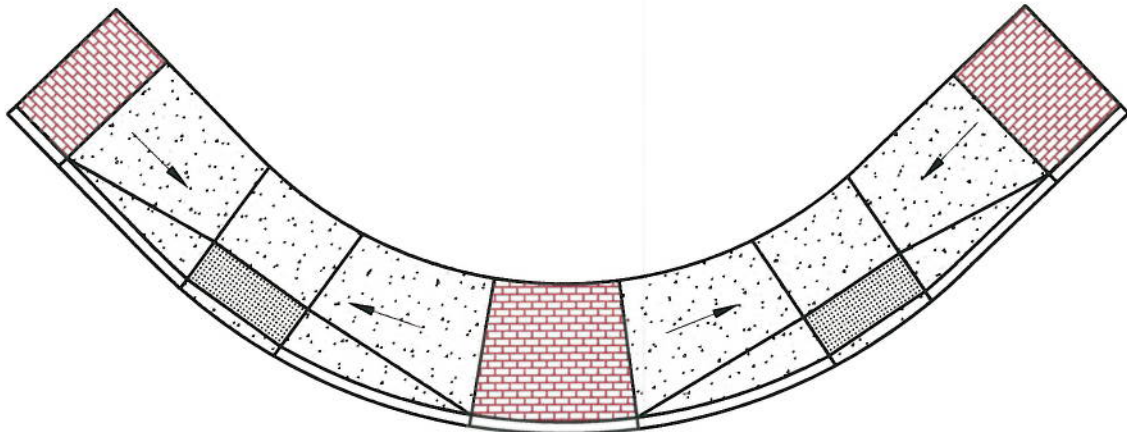
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4600



SIDEWALK WIDTH LESS THAN 6'-6"



SIDEWALK WIDTH 6'-6" AND WIDER



**WHEELCHAIR RAMPS AT INTERSECTION - BRICK/CONCRETE**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4600C

| ROADWAY<br>PROFILE GRADE | * HIGH SIDE<br>TRANSITION LENGTH |
|--------------------------|----------------------------------|
| %                        | ENGLISH UNITS                    |
| =0%                      | 6'-6"                            |
| >0% TO 1%                | 7'-8"                            |
| >1% TO 2%                | 9'-0"                            |
| >2% TO 3%                | 11'-0"                           |
| >3% TO 4%                | 14'-0"                           |
| >4% TO 5%                | 15'-0" Max.                      |

NOTE:

\* BASED ON DESIGN SLOPE OF  
7.5% AND REVEAL OF 6"



**WHEELCHAIR RAMP TRANSITION LENGTH**

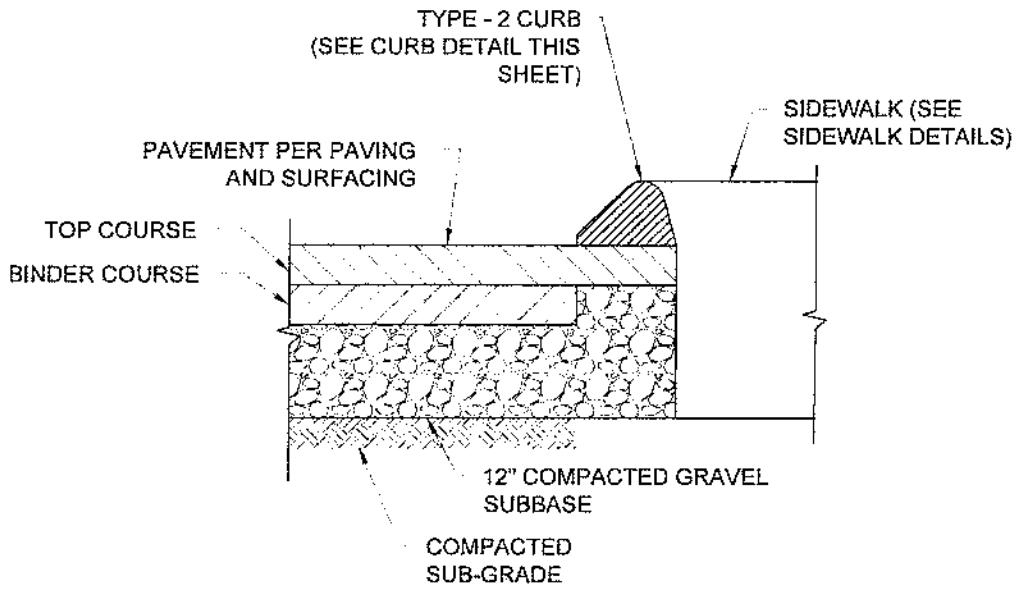
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

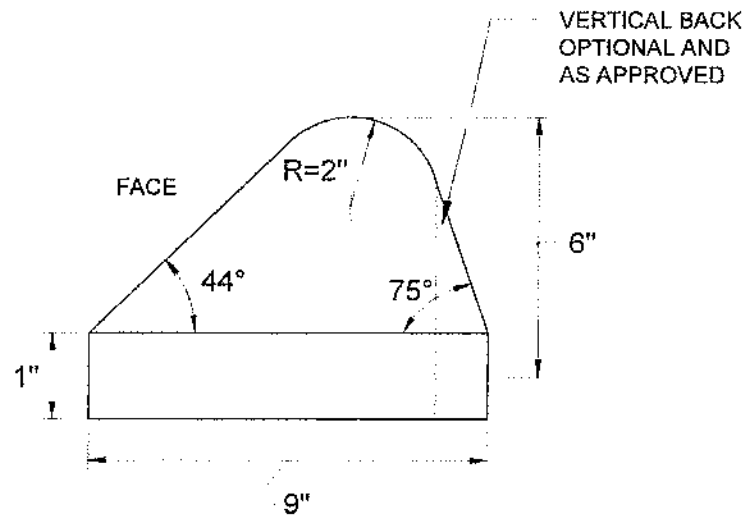
ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 4900



NOTE: THE BERM MAY ALSO BE INSTALLED PRIOR TO FINAL PAVING AS DIRECTED BY DPS



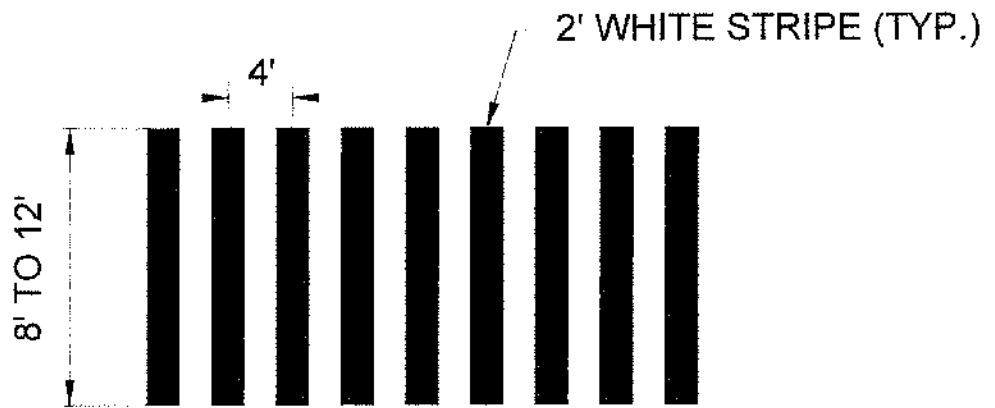
DETAIL



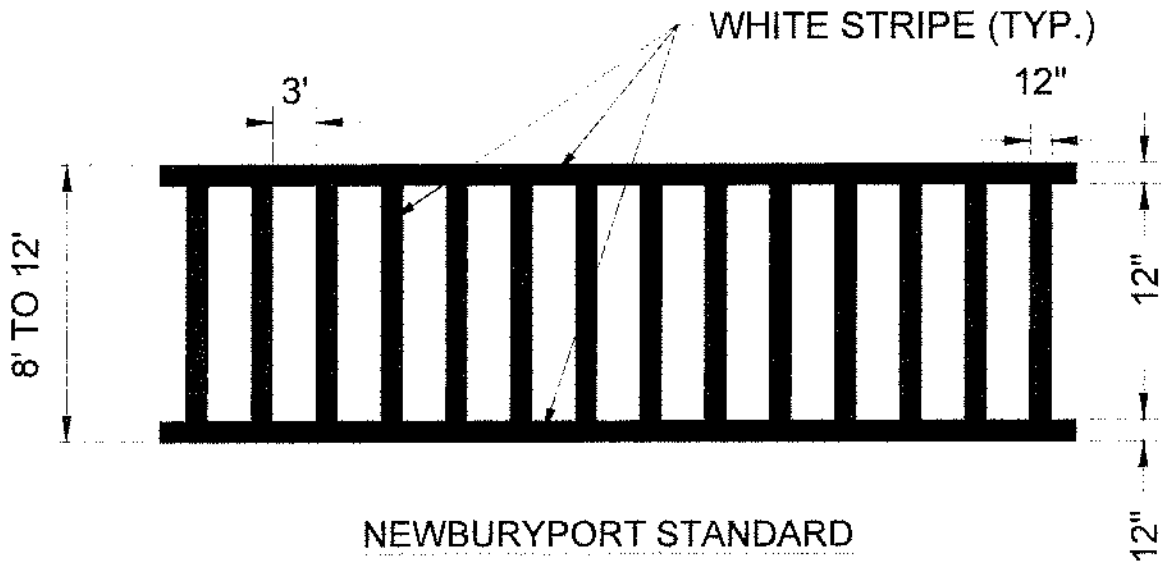
**ASPHALT CURB**

CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

|              |                    |                     |                    |
|--------------|--------------------|---------------------|--------------------|
| NOT TO SCALE | ISSUE DATE 4/28/15 | SPEC. SECTION REF#: | DRAWING: NBPT 5000 |
|--------------|--------------------|---------------------|--------------------|



**NEWBURYPORT CROSSWALK  
(INTERNATIONAL TYPE)**



**NEWBURYPORT STANDARD  
(LADDER TYPE)**

NOTE: STOP LINES SHALL BE 12" WIDE WHITE AND LOCATED A MINIMUM OF 4' IN ADVANCE OF CROSSWALK OR AT STOP SIGN LOCATION.



**STANDARD CROSSWALK**

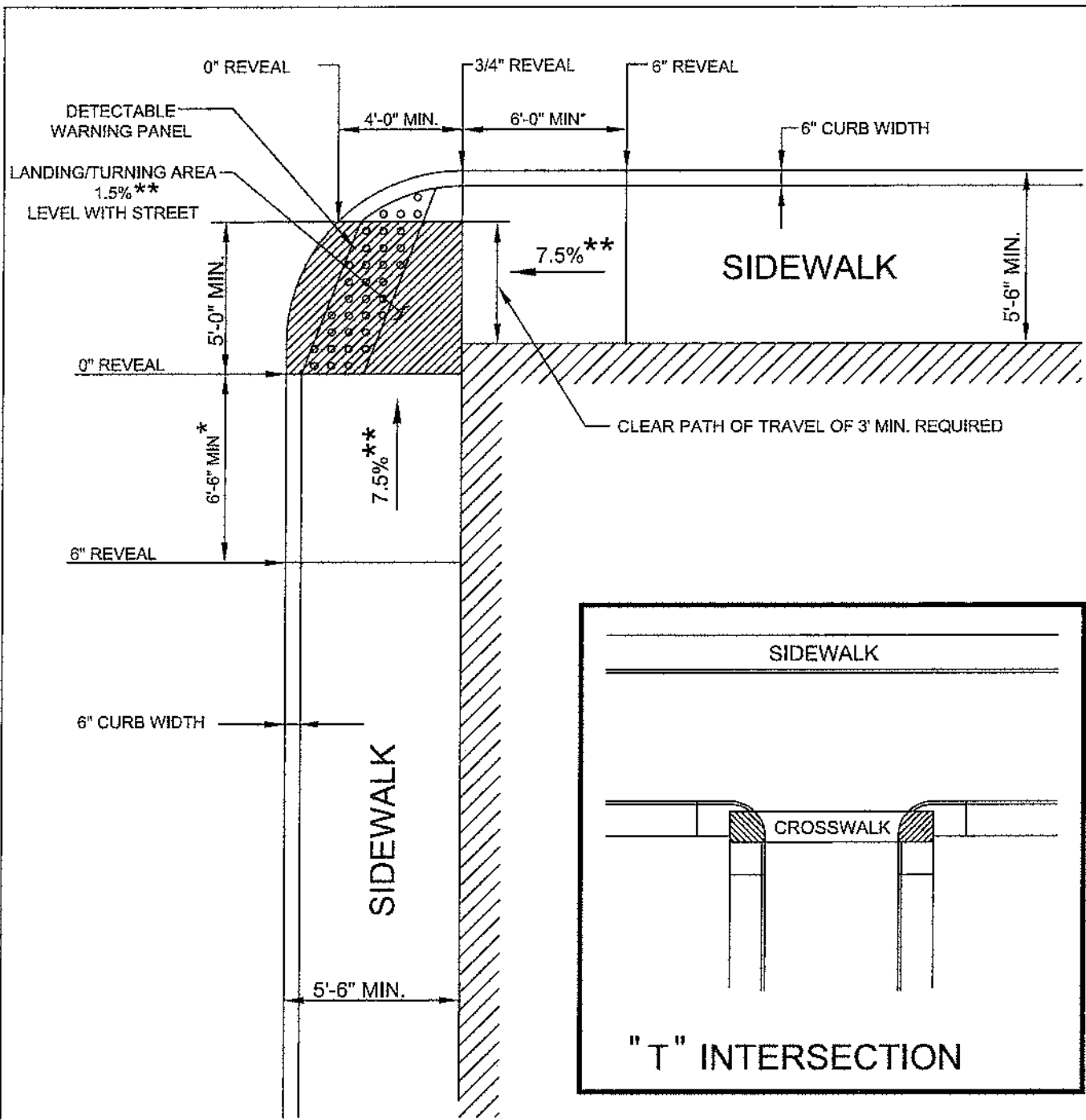
CITY OF NEWBURYPORT STANDARD SPECIFICATIONS AND DETAILS

NOT TO SCALE

ISSUE DATE 4/28/15

SPEC. SECTION REF#:

DRAWING: NBPT 6000



**LEGEND**



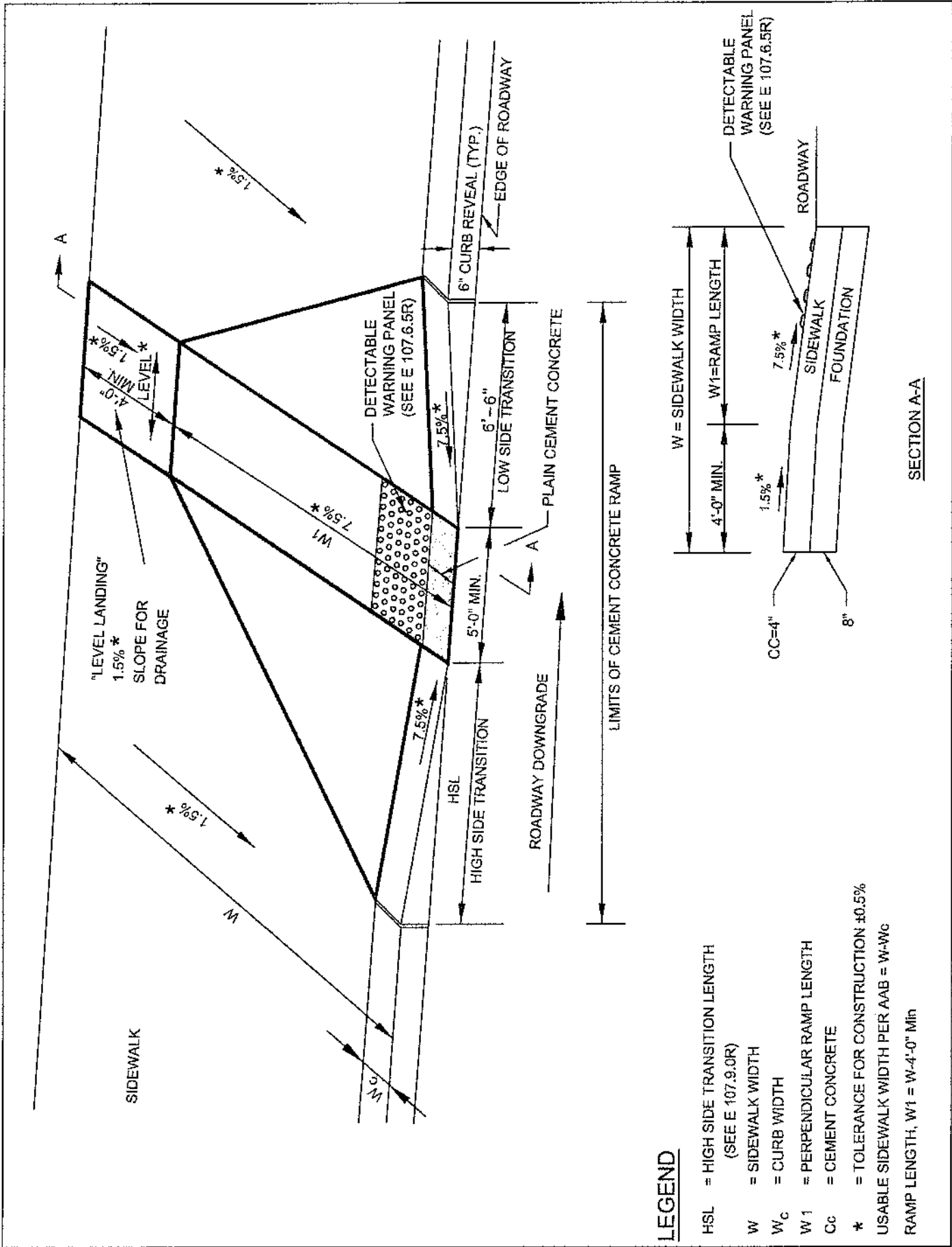
BUILDING OR OTHER UNALTERABLE CONDITION

\* TRANSITION LENGTH SHOWN IS MINIMUM.  
(SEE E 107.9.0R)

\*\* TOLERANCE FOR CONSTRUCTION ±0.5%

**NOTE:**

ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS



**LEGEND**

- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0R)
  - W = SIDEWALK WIDTH
  - W<sub>C</sub> = CURB WIDTH
  - W<sub>1</sub> = PERPENDICULAR RAMP LENGTH
  - C<sub>c</sub> = CEMENT CONCRETE
  - \* = TOLERANCE FOR CONSTRUCTION ±0.5%
- USABLE SIDEWALK WIDTH PER AAB = W-W<sub>C</sub>  
 RAMP LENGTH, W<sub>1</sub> = W-4'-0" Min

**SECTION A-A**