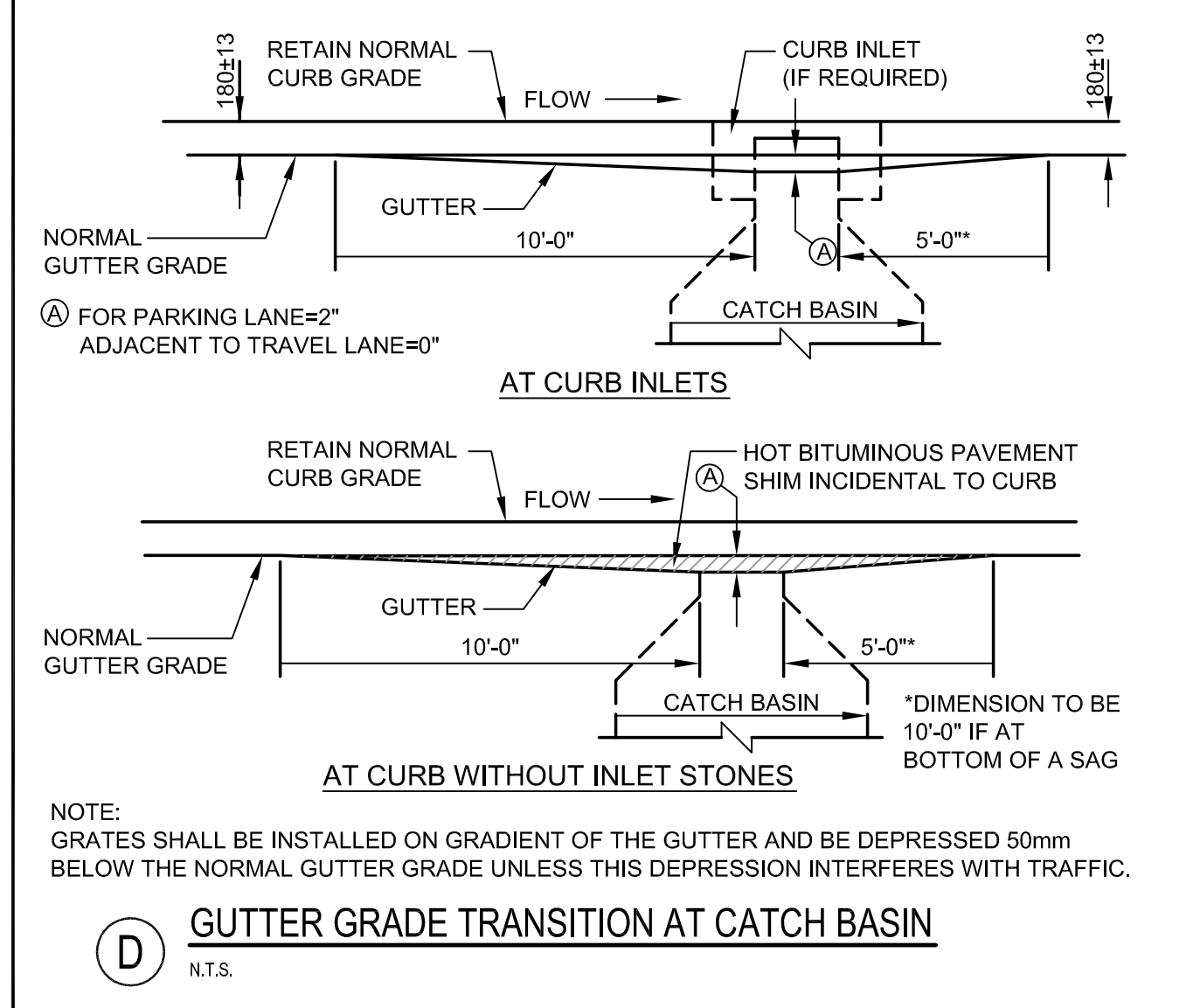
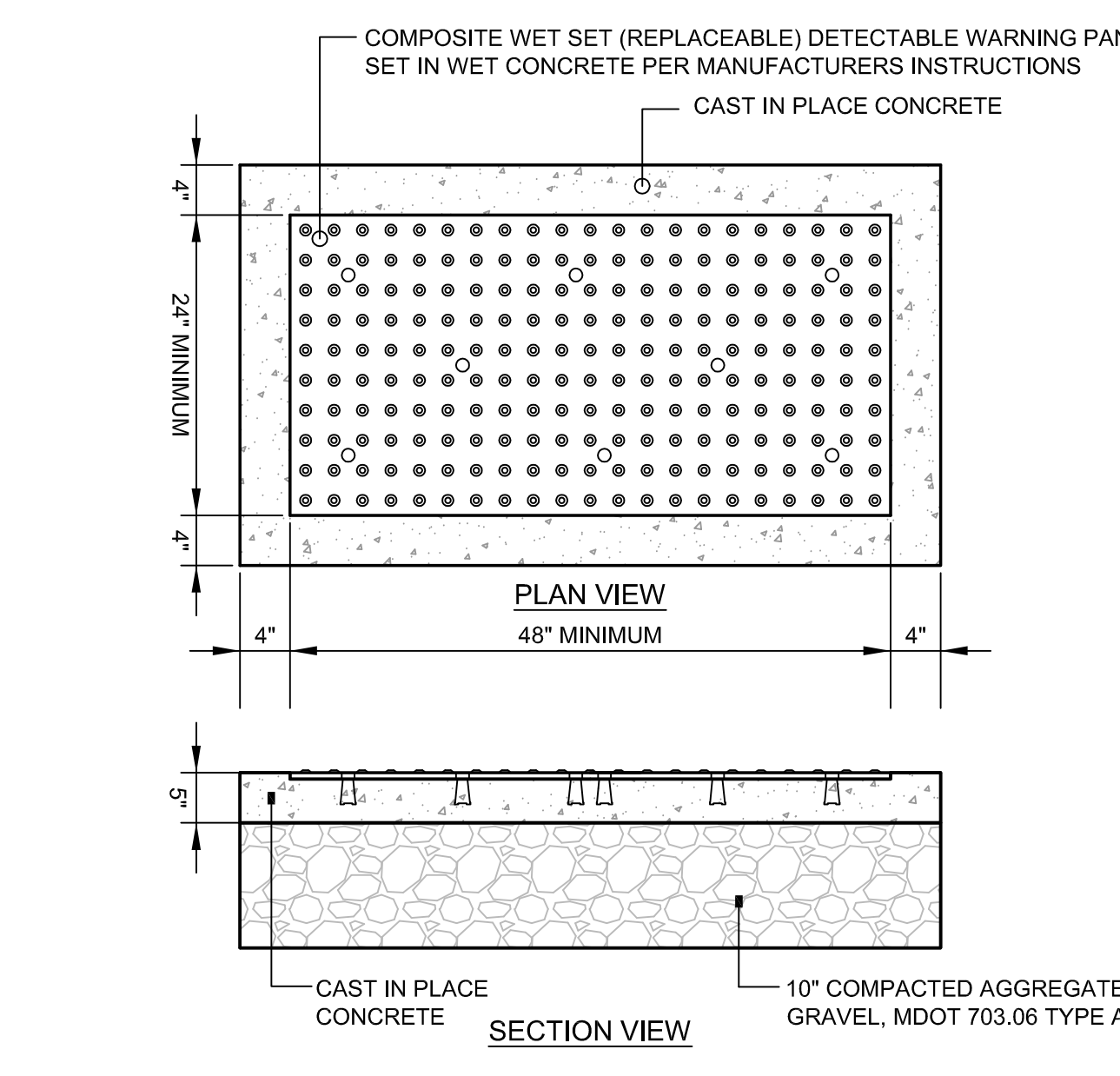


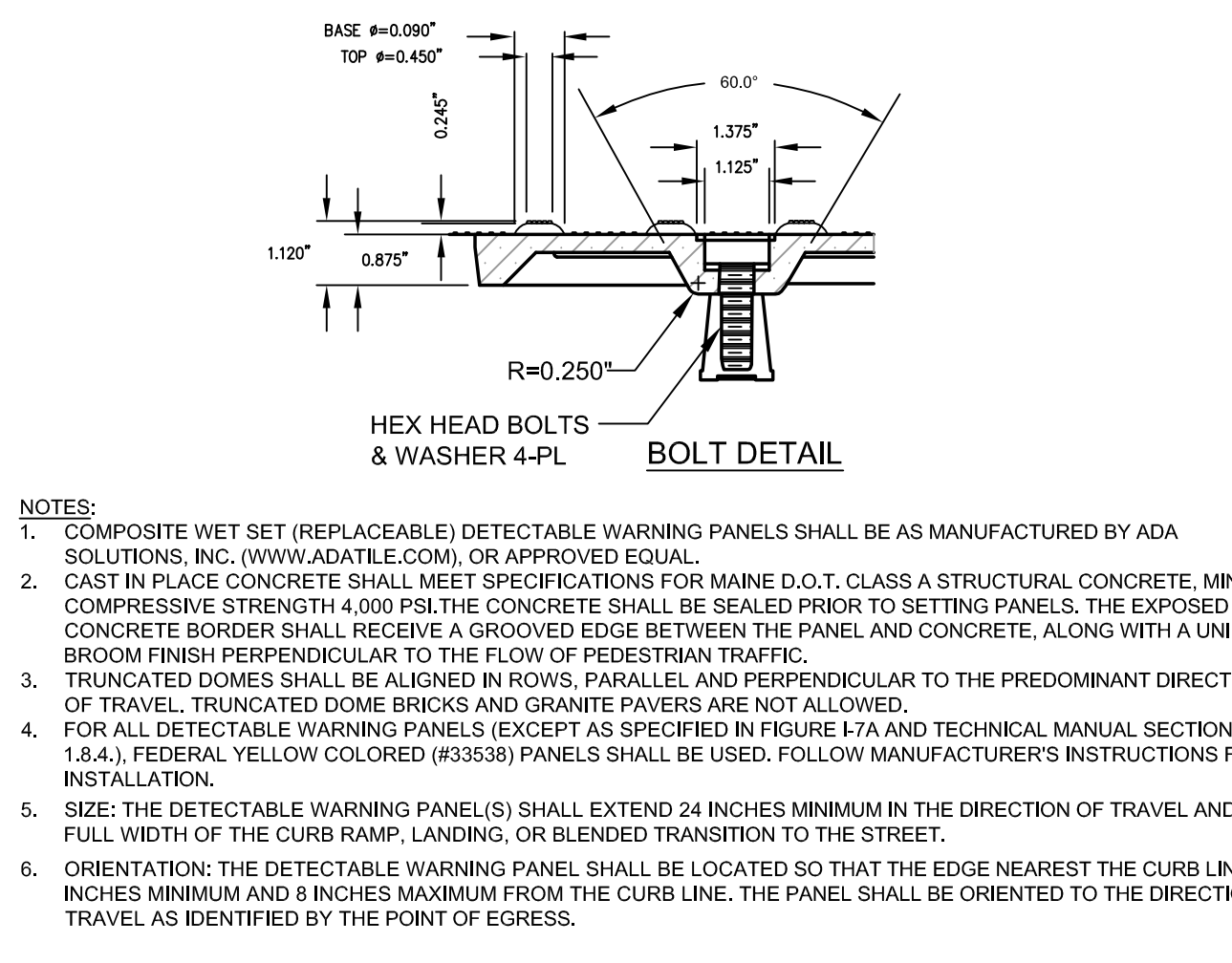
**(A) VERTICAL GRANITE CURB DETAIL**  
N.T.S.



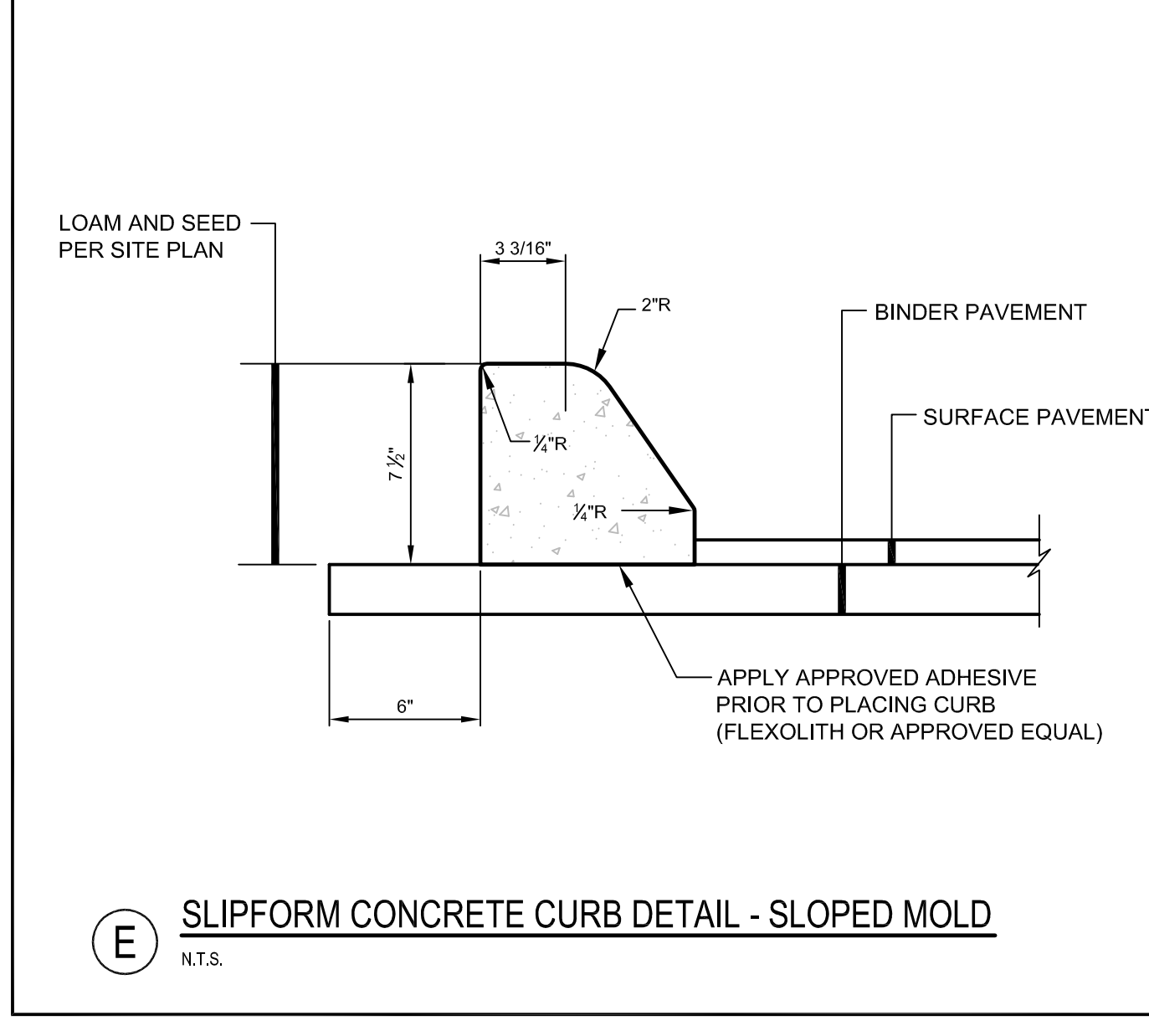
**(D) GUTTER GRADE TRANSITION AT CATCH BASIN**  
N.T.S.



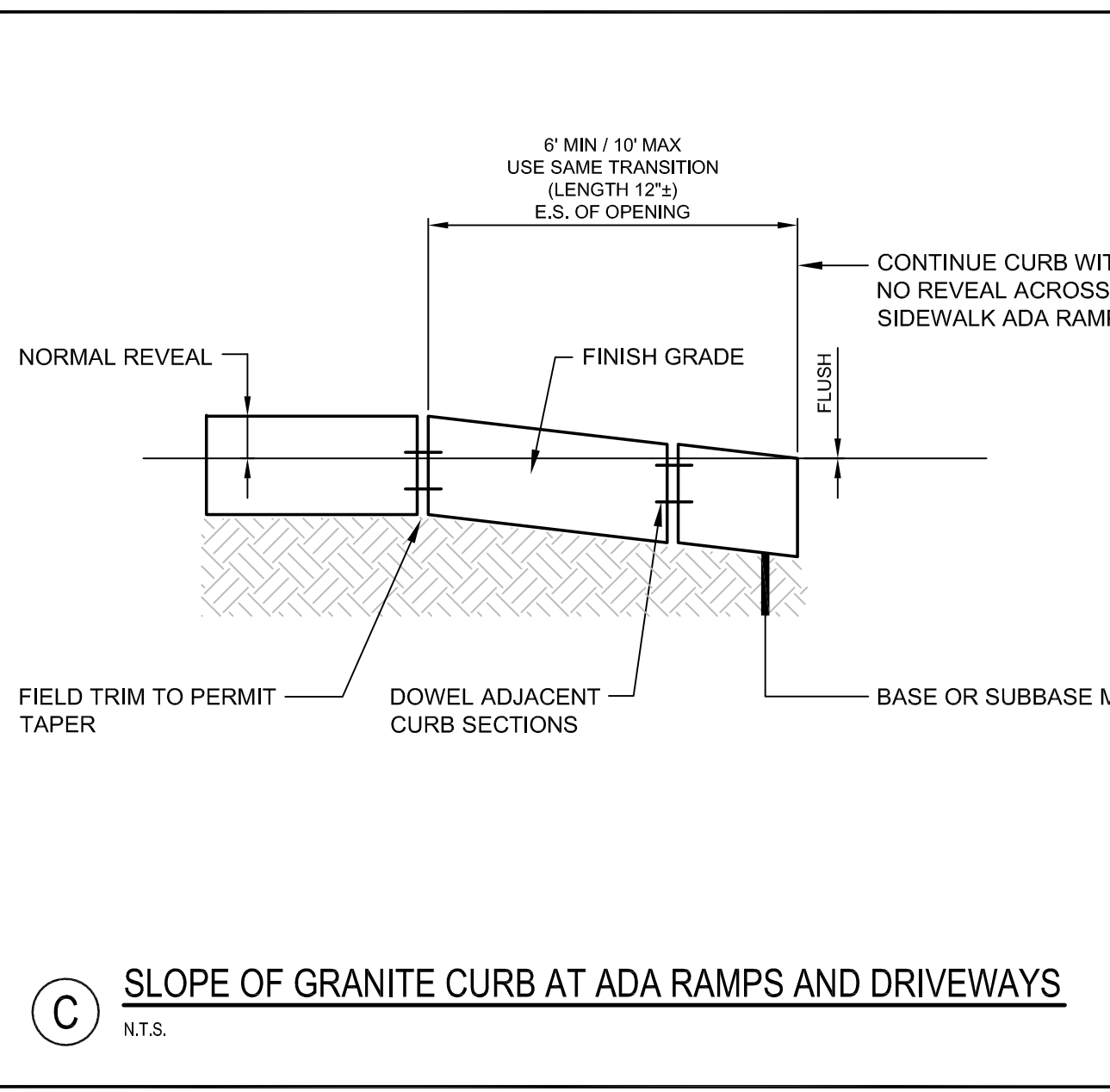
**(B) DETECTABLE WARNING PAVER DETAIL**  
N.T.S.



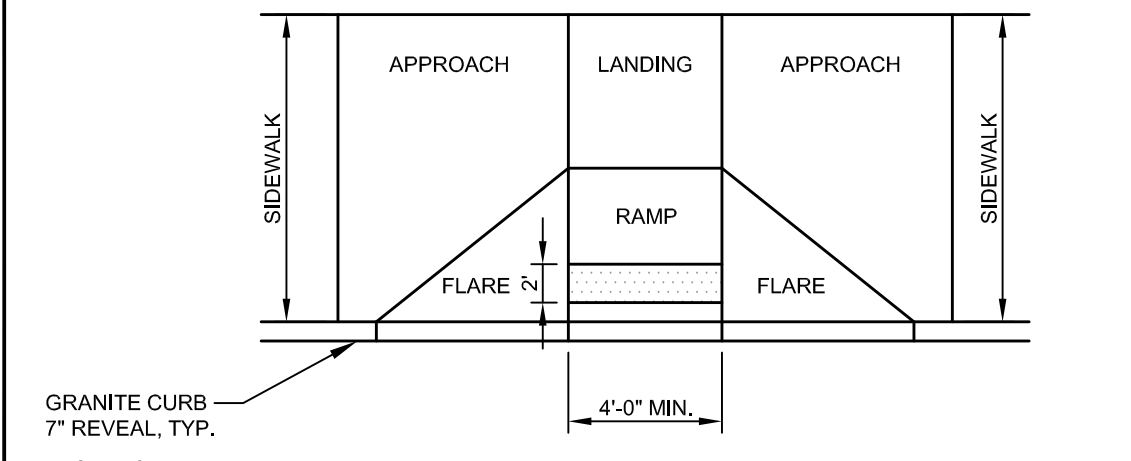
**(B) DETECTABLE WARNING PAVER DETAIL**  
N.T.S.



**(E) SLIPFORM CONCRETE CURB DETAIL - SLOPED MOLD**  
N.T.S.

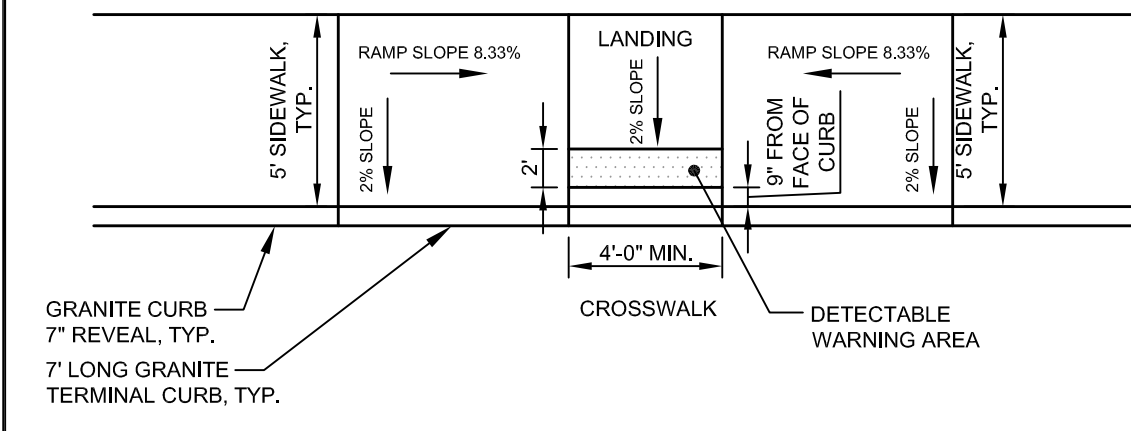


**(C) SLOPE OF GRANITE CURB AT ADA RAMPS AND DRIVEWAYS**  
N.T.S.



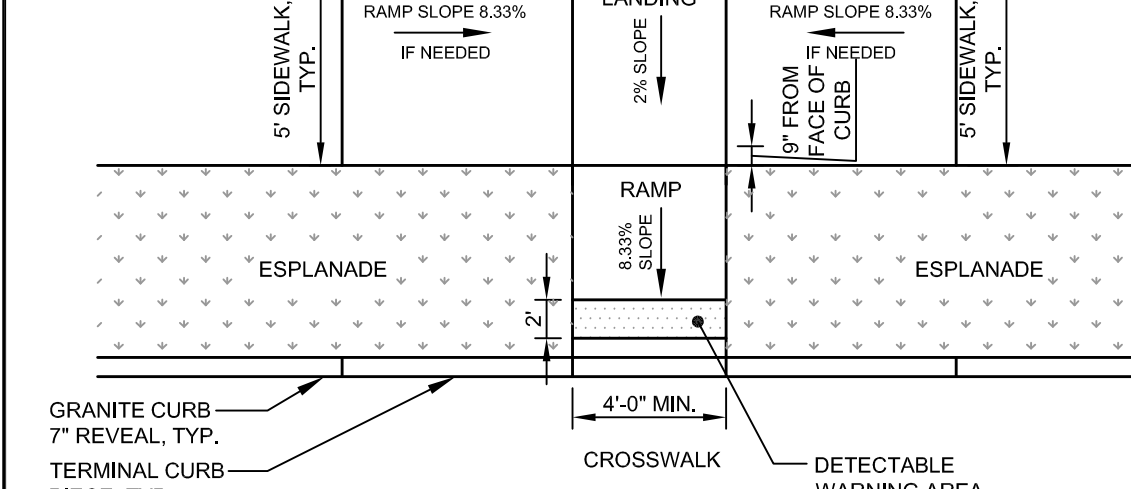
**PERPENDICULAR ADA RAMP LAYOUT FOR WIDE SIDEWALK WITH NO ESPLANADE**

DESIGN ELEMENT	SLOPE IN DIRECTION OF TRAVEL	CROSS SLOPE
APPROACH	0.33% MAXIMUM	2%
LANDING	2%	2%
RAMP	0.33% MAXIMUM	2%
FLARE	10% MAX AT CURB FACE	MATCH STREET GRADE
SEWALK	MATCH STREET GRADE	2%



**PARALLEL SIDEWALK RAMP LAYOUT FOR NARROW SIDEWALK WITH NO ESPLANADE**

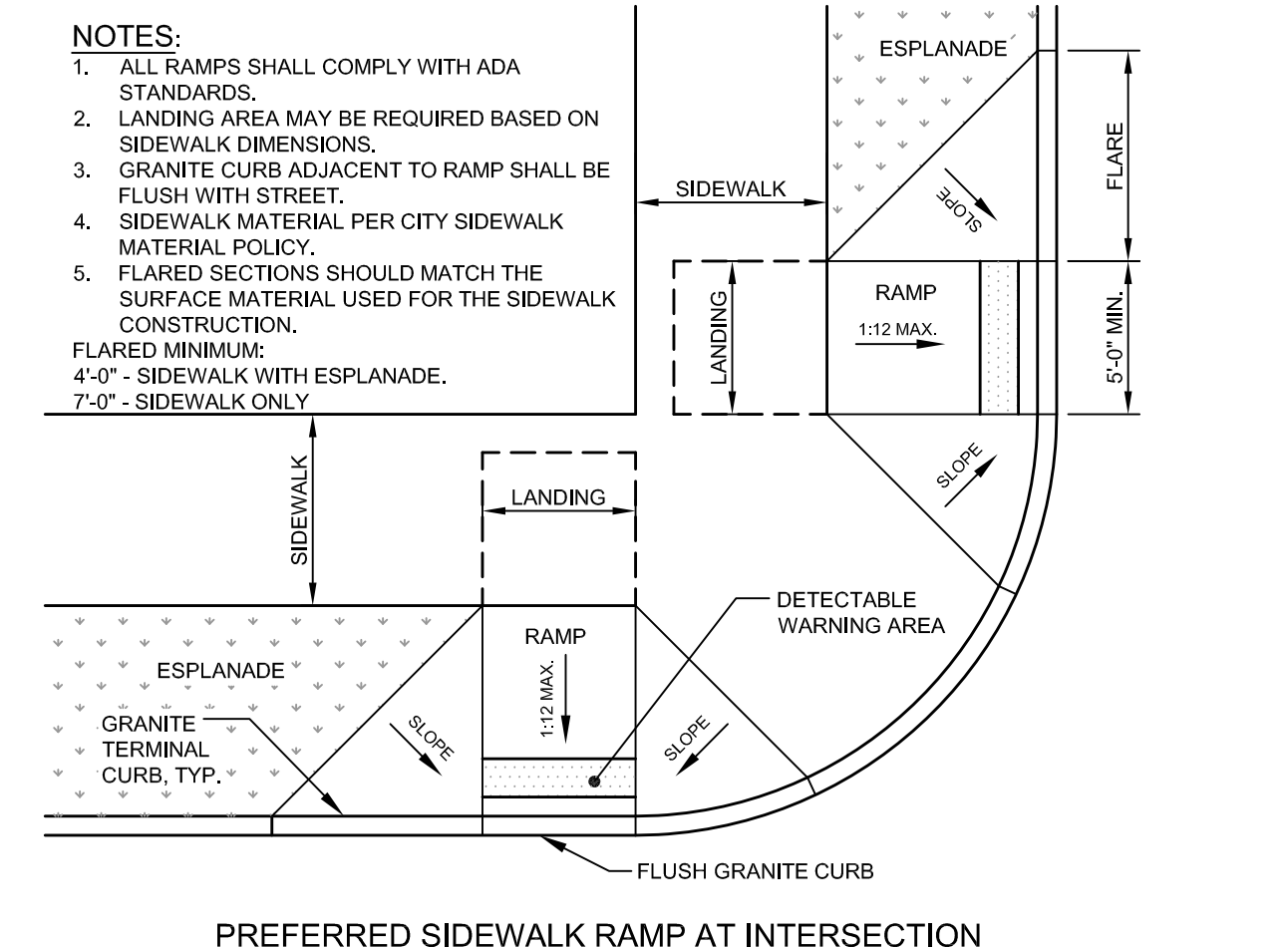
DESIGN ELEMENT	SLOPE IN DIRECTION OF TRAVEL	CROSS SLOPE
APPROACH	0.33% MAXIMUM	2%
LANDING	2%	2%
RAMP	0.33% MAXIMUM	2%
FLARE	10% MAX AT CURB FACE	MATCH STREET GRADE
SEWALK	MATCH STREET GRADE	2%



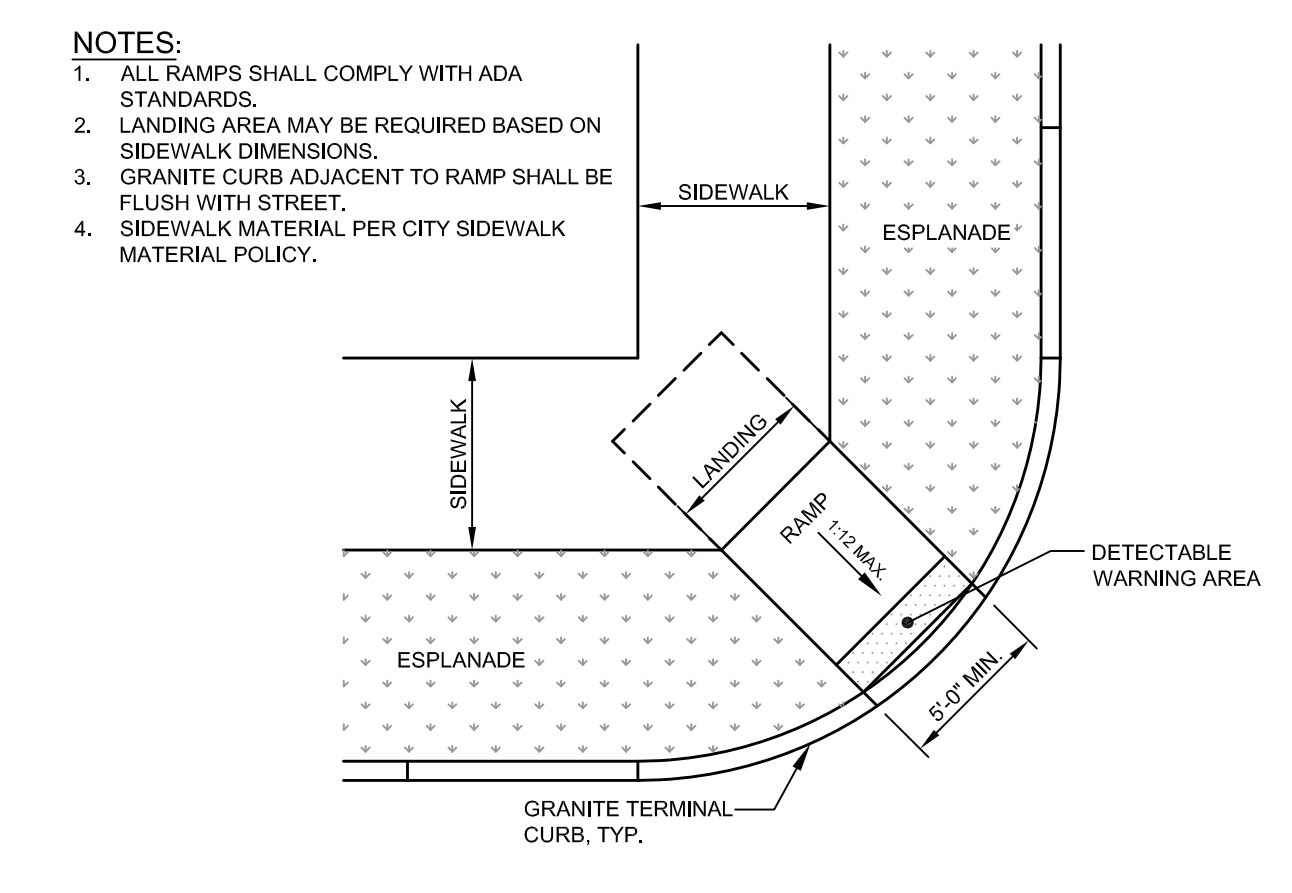
**PERPENDICULAR ADA RAMP LAYOUT FOR NARROW SIDEWALK WITH ESPLANADE**

DESIGN ELEMENT	SLOPE IN DIRECTION OF TRAVEL	CROSS SLOPE
APPROACH	0.33% MAXIMUM	2%
LANDING	2%	2%
RAMP	0.33% MAXIMUM	2%
FLARE	10% MAX AT CURB FACE	MATCH STREET GRADE
SEWALK	MATCH STREET GRADE	2%

**(F) BARRIER FREE RAMP DETAILS**  
N.T.S.



**PREFERRED SIDEWALK RAMP AT INTERSECTION**

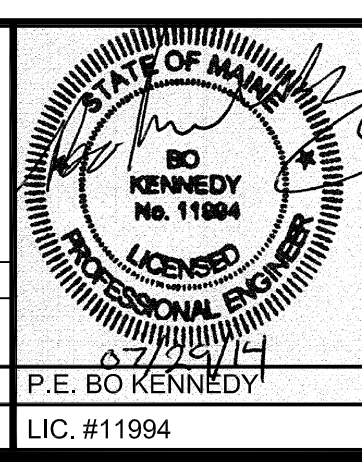


**DIAGONAL SIDEWALK RAMP LAYOUT AT INTERSECTION FOR SIDEWALK WITH ESPLANADE (REQUIRES WAIVER)**

- NOTES:**
- ALL RAMPS SHALL COMPLY WITH ADA STANDARDS.
  - GRANITE CURB ADJACENT TO RAMP SHALL BE FLUSH WITH STREET.
  - SIDEWALK MATERIAL PER CITY SIDEWALK MATERIAL POLICY.
- NOTE:**
- ALL RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA).
  - ALL RAMPS WITHIN THE CITY OF PORTLAND RIGHT-OF-WAY (SEWALL STREET AND THOMPSON POINT CONNECTOR ROAD) SHALL HAVE DETECTABLE WARNINGS: THE FULL DEPTH AND WIDTH OF THE RAMP PER SECTION 4.09 OF THE ADA. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES A DIAMETER OF 0.90 INCHES, A HEIGHT OF NOMINAL 0.20 INCHES AND A SPACING OF 2.35 INCHES CENTER TO CENTER. THESE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
  - A TACTILE WARNING STRIP IS REQUIRED WHERE RAMP ABUTS AREA USED BY MOTORIZED VEHICLES.
  - ALL TACTILE WARNING STRIPS SHALL BE SET PERPENDICULAR TO DIRECTION OF CROSS WALK.

PRELIMINARY - NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	REVISIONS
2	07.29.14	REVISED PHASE 1A SITE PLAN SUBMITTED TO CITY	
1	06.30.14	AMENDED PHASE 1A SITE PLAN SUBMITTED TO CITY	



PROJECT: BRICK NORTH BUILDING AT THE FOREFRONT AT THOMPSON'S POINT  
SHEET TITLE: CURBING AND SIDEWALK DETAILS  
CLIENT: FOREFRONT PARTNERS | LP

**FST** FAY, SPOFFORD & THORNDIKE  
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DRAWN: BDK DATE: JUNE 2014  
DESIGNED: BEK SCALE: AS NOTED  
CHECKED: SRB JOB NO. 2982.05  
FILE NAME: 2982.05-BN-DET  
SHEET: C-8.1