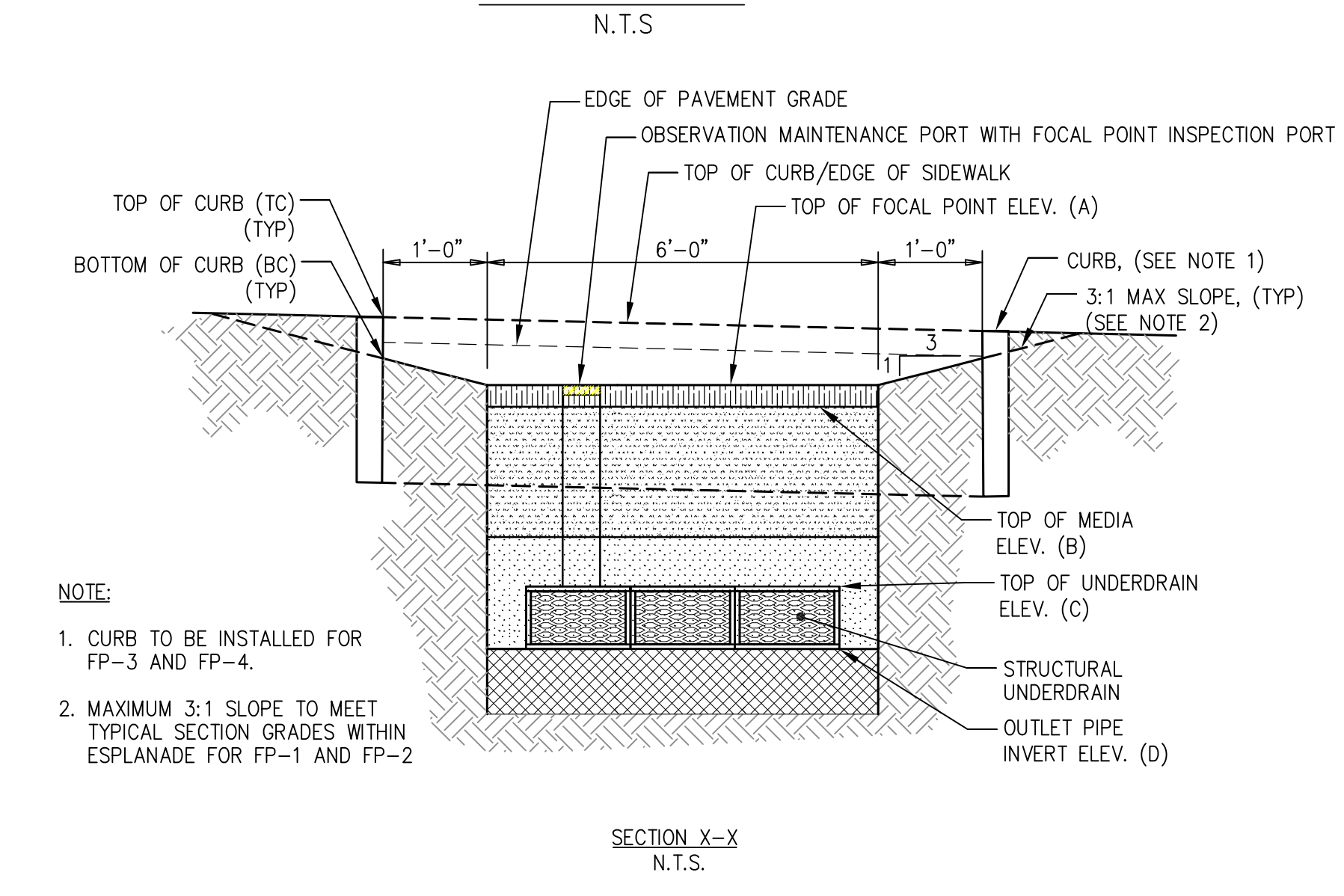
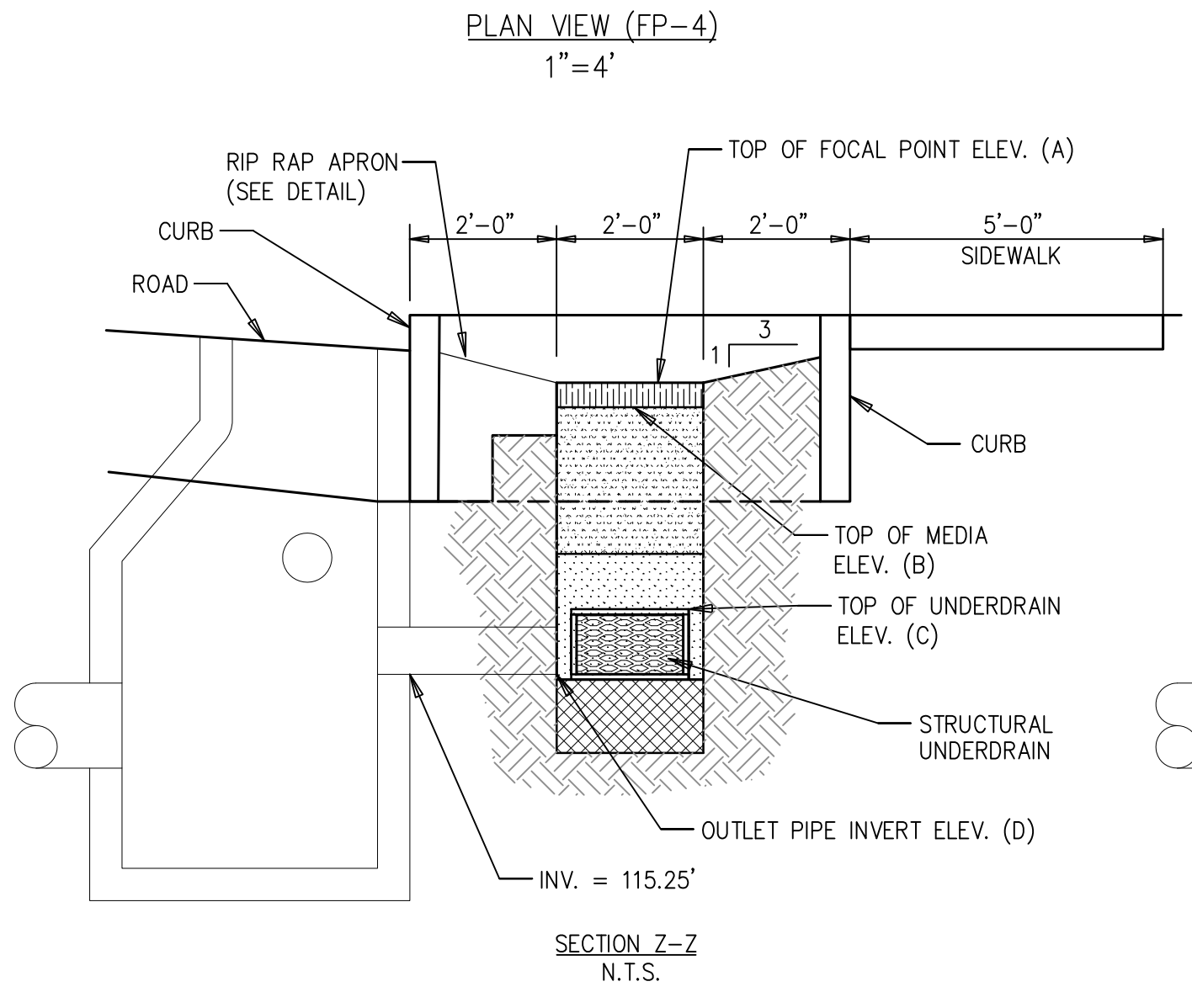
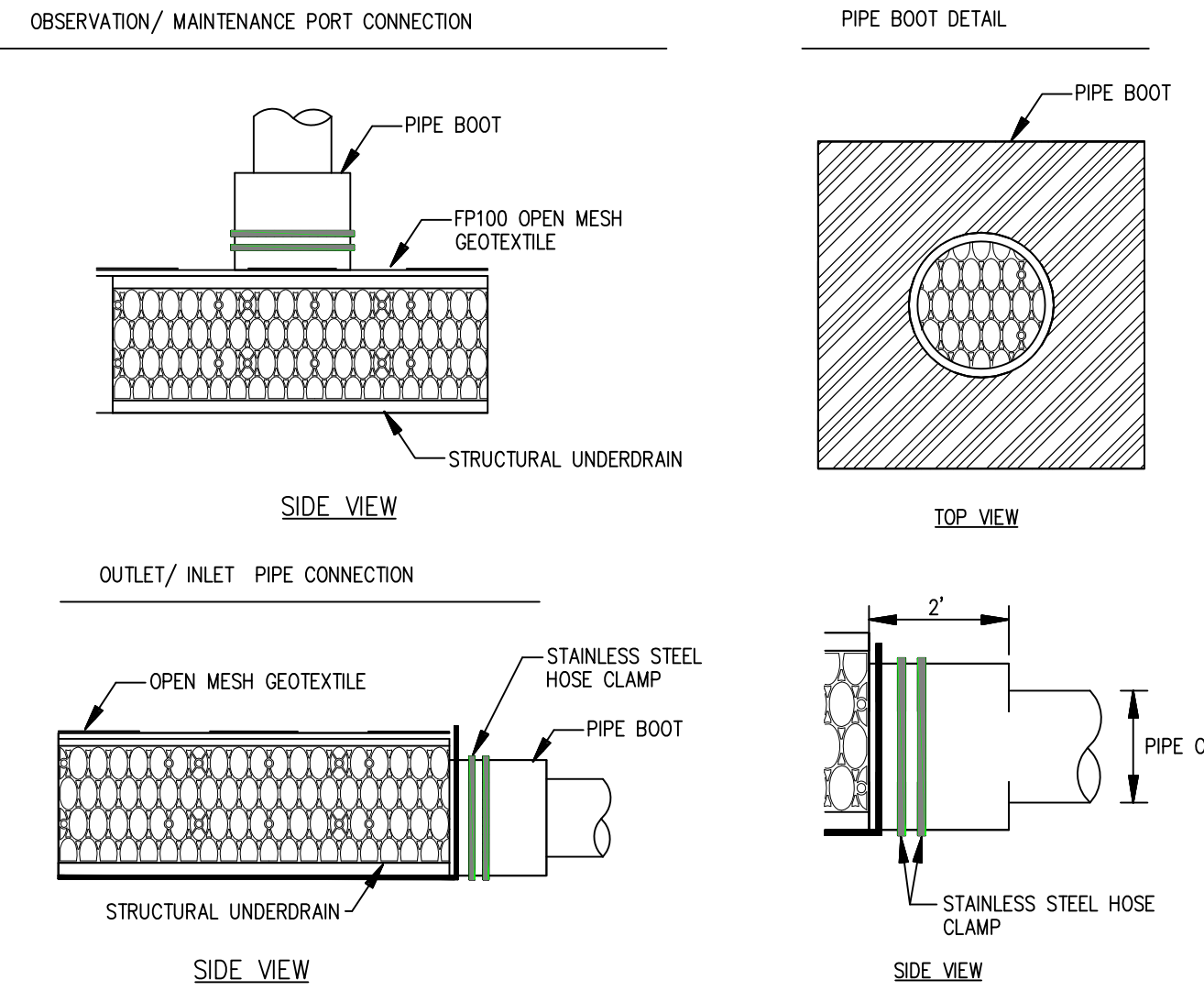
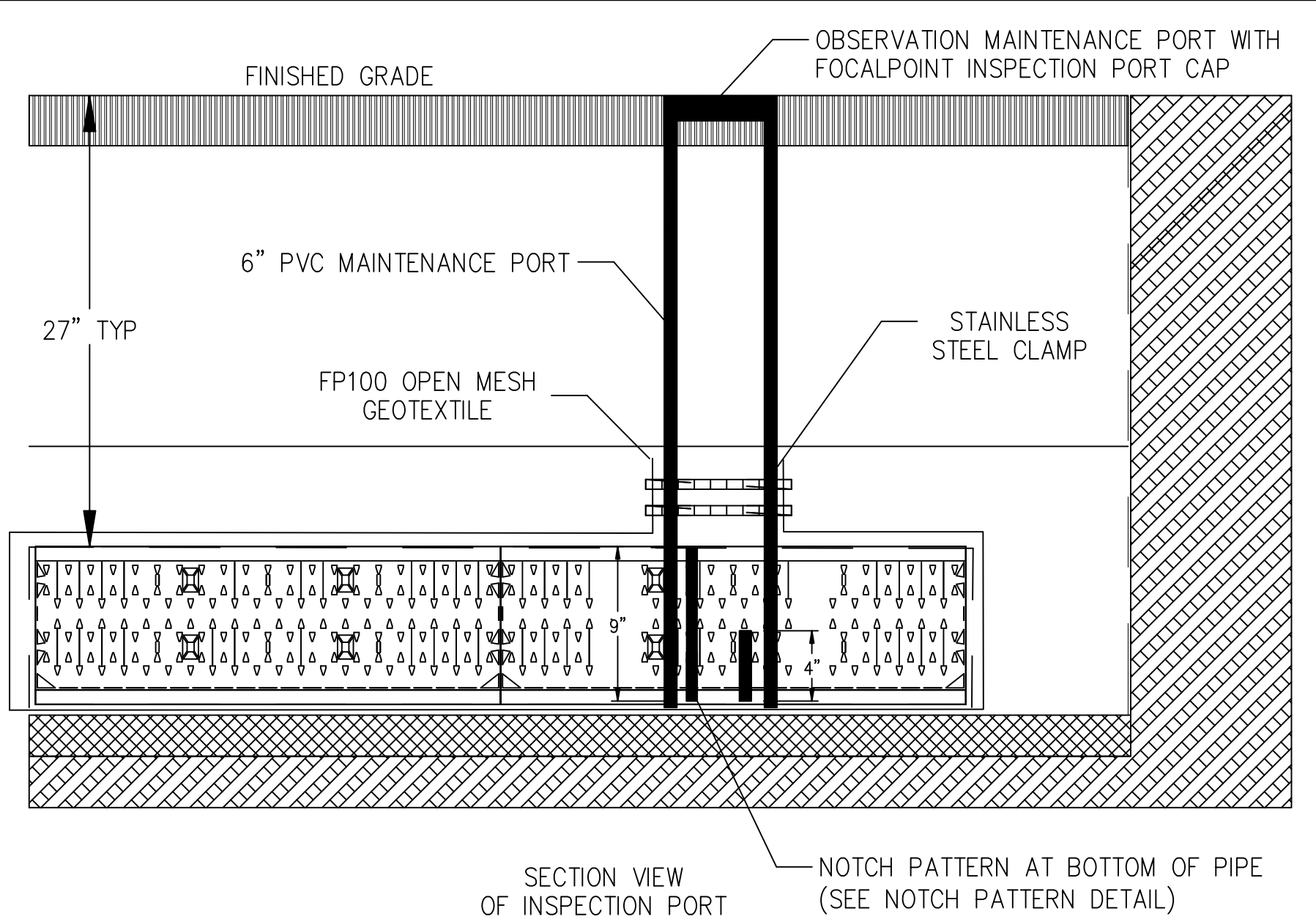
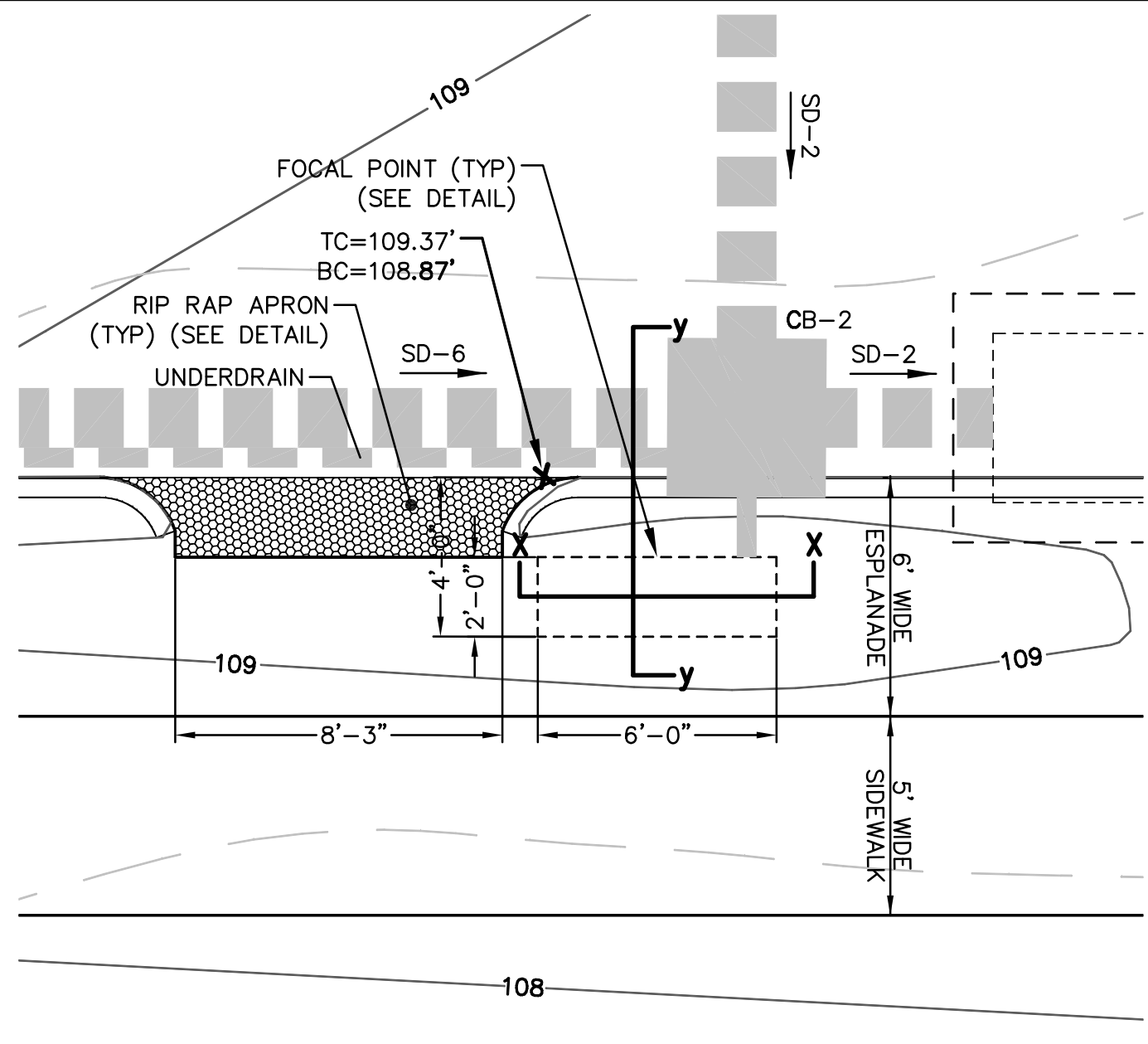
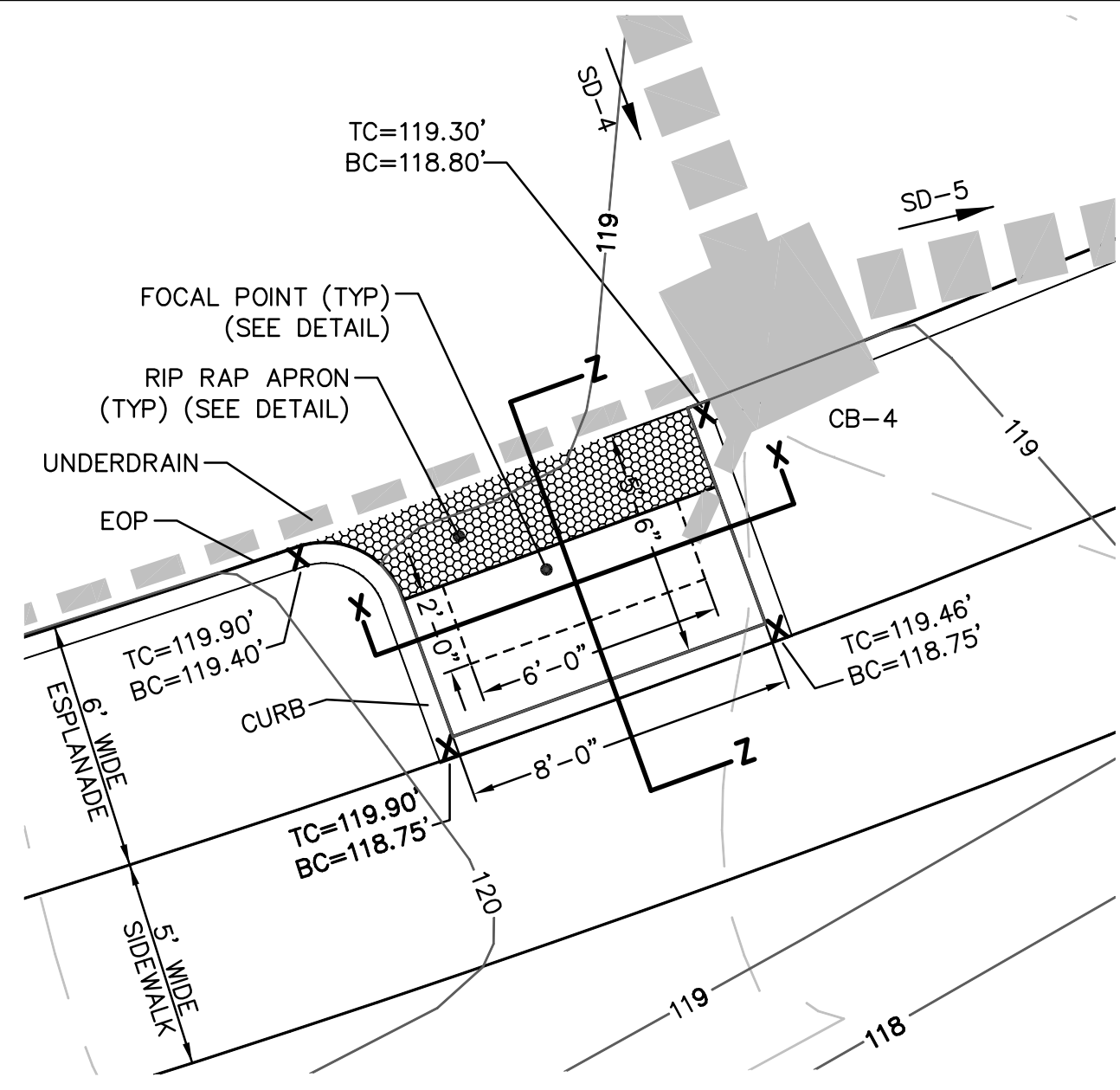
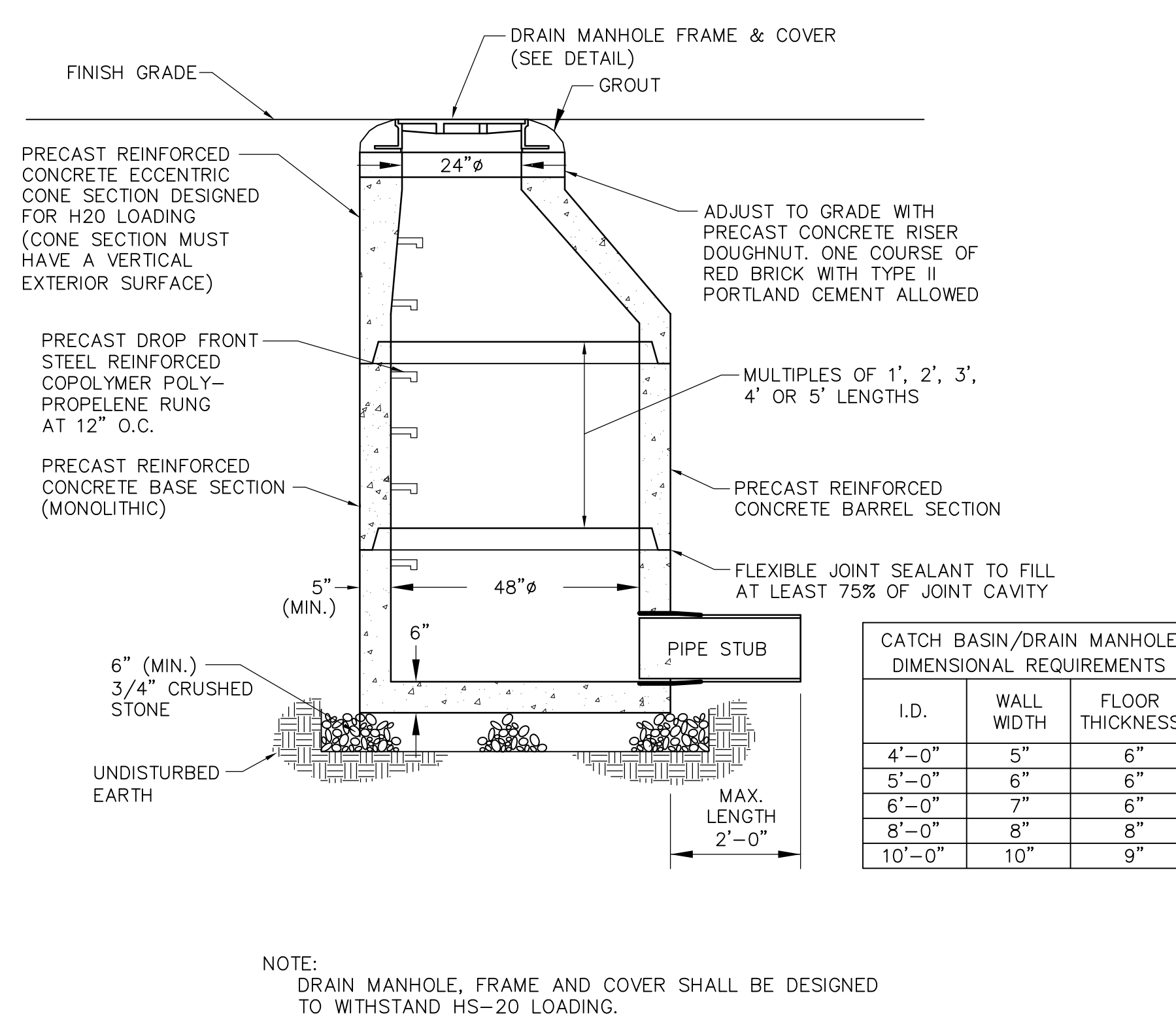


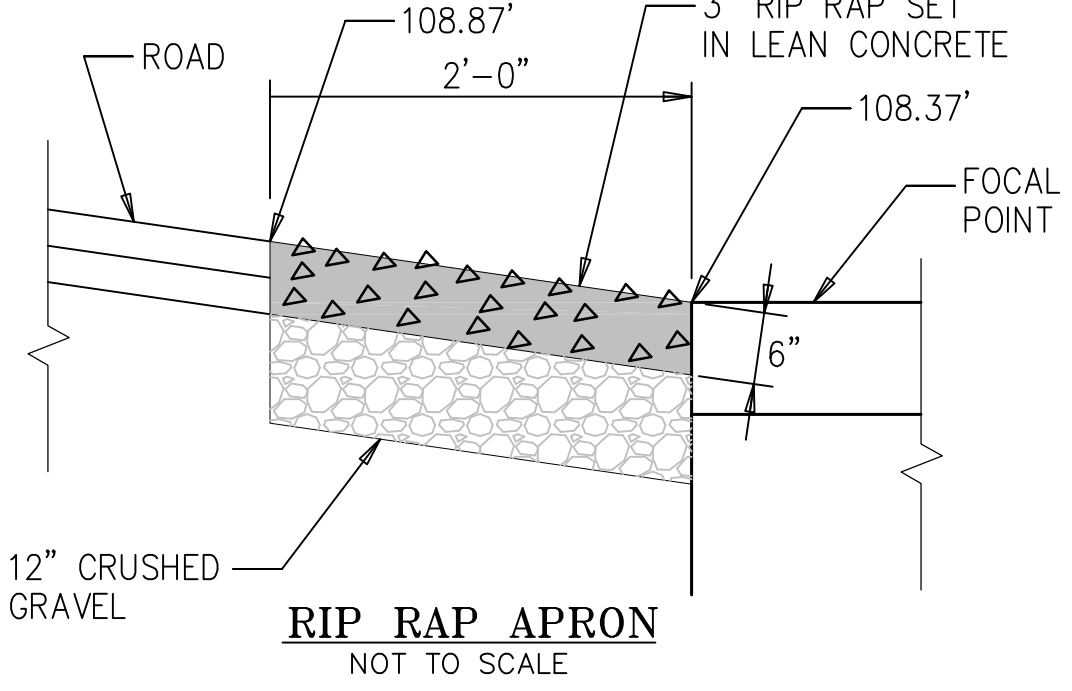
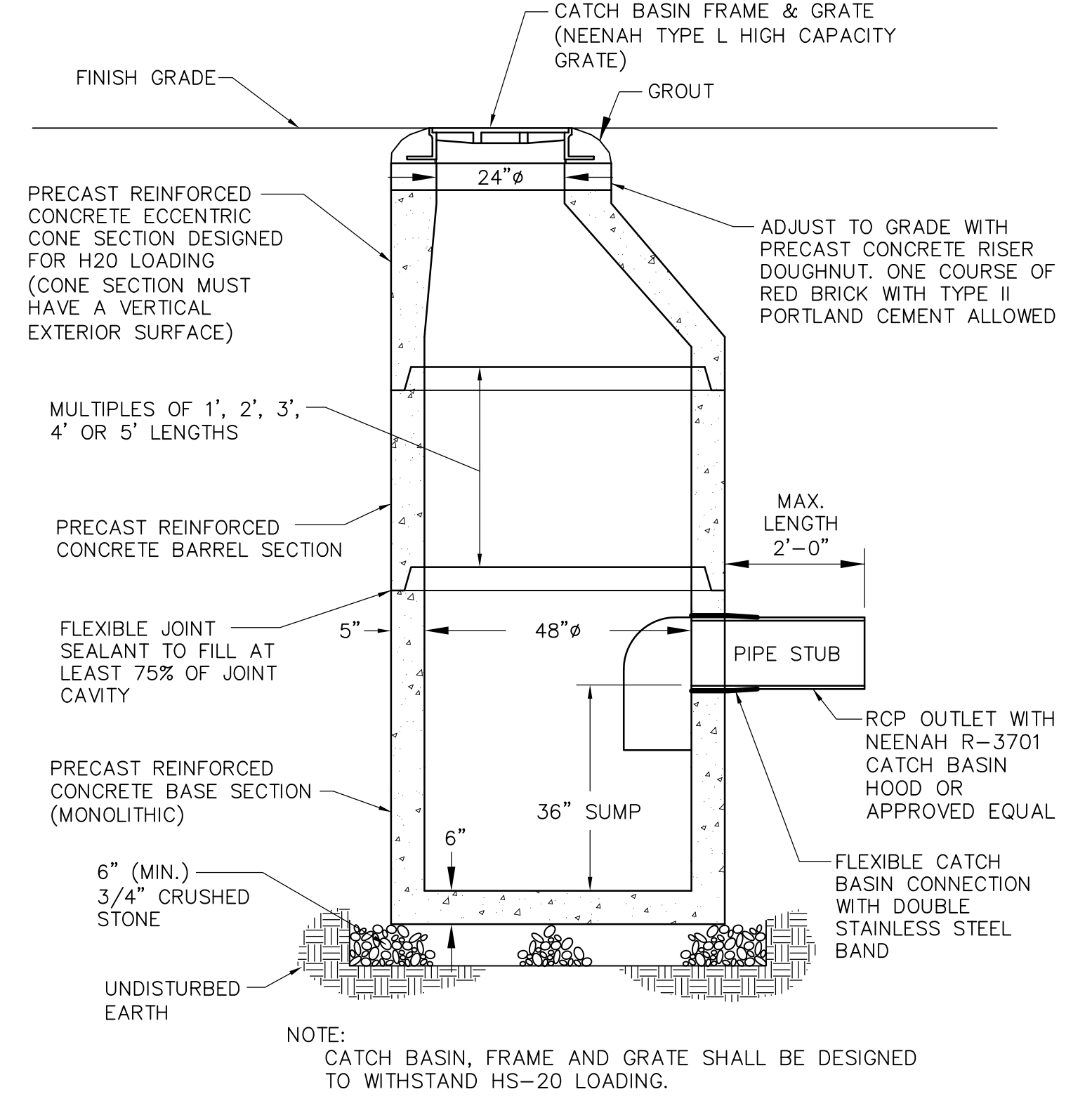
FOCALPOINT ELEVATION AND DIMENSIONAL DATA					
ID	DESCRIPTION	FP-1	FP-2	FP-3	FP-4
A	TOP OF FOCALPOINT	108.37'	108.37'	118.25'	118.25'
B	TOP OF MEDIA	108.12'	108.12'	118.00'	118.00'
C	TOP OF UNDERDRAIN	106.12'	106.12'	116.00'	116.00'
D	OUTLET PIPE INVERT	105.37'	105.37'	115.25'	115.25'
E	FOCALPOINT WIDTH	2.00'	2.00'	2.00'	2.00'
F	FOCALPOINT LENGTH	6.00'	6.00'	6.00'	6.00'
G	WIDTH OF R-TANK	2.00'	2.00'	2.00'	2.00'
H	LENGTH OF R-TANK	6.00'	6.00'	6.00'	6.00'



- NOTE:**
- CURB TO BE INSTALLED FOR FP-3 AND FP-4.
  - MAXIMUM 3:1 SLOPE TO MEET TYPICAL SECTION GRADES WITHIN ESPLANADE FOR FP-1 AND FP-2.



CATCH BASIN/DRAIN MANHOLE DIMENSIONAL REQUIREMENTS		
I.D.	WALL WIDTH	FLOOR THICKNESS
4'-0"	5"	6"
5'-0"	6"	6"
6'-0"	7"	6"
8'-0"	8"	8"
10'-0"	10"	9"



MEDIA SPEC TABLE	
AGGREGATE CHARACTERISTICS (TYPICAL)	
COMBINED SILT & CLAY	< 5%
SAND - FINE	< 5%
SAND - MEDIUM	2% - 20%
SAND - COURSE	5% - 35%
SAND - VERY COARSE	10% - 55%
GRAVEL	10% - 70%
INFILTRATION RATE	> 100 INCHES PER HOUR
ORGANIC *	5% - 30%
* ORGANIC SPECIFICATION	
LISTED BY ORGANIC MATERIALS REVIEW INSTITUTE	
100% NATURAL PEAT (NO COMPOSTED, SLUDGE, YARD OR LEAF WASTE)	
% PASSING 2.0 MM SIEVE	95% - 100%
% PASSING 1.0 MM SIEVE	> 80%
TOTAL CARBON	> 85%
CARBON TO NITROGEN RATIO	15:1 - 23:1
LIGNIN CONTENT	49% - 52%
HUMIC ACID	> 18%
PH	6.0 - 7.0
MOISTURE CONTENT	30% - 50%

- BIOFILTRATION MEDIA**
- BIOLOGICALLY ACTIVE BIOFILTRATION MEDIA SHALL BE VISUALLY INSPECTED TO ENSURE APPROPRIATE VOLUME, TEXTURE AND CONSISTENCY WITH THE APPROVED DRAWINGS, AND MUST BEAR A BATCH NUMBER MARKING FROM THE MANUFACTURER WHICH CERTIFIES PERFORMANCE TESTING OF THE BATCH TO MEET OR EXCEED THE REQUIRED INFILTRATION RATE.
  - MEDIA SHALL BE HOMOGENEOUSLY BLENDED TO PROVIDE FULL FUNCTIONALITY BY A HIGHLY CONTROLLED AND ACCURATE BLENDING PROCESS.
  - MANUFACTURER SHALL HAVE A MINIMUM OF 3 YEARS' EXPERIENCE AND A MINIMUM OF 500 INSTALLED AND OPERATIONAL HIGH PERFORMANCE, HIGH FLOW RATE BIORETENTION SYSTEM UNITS.
  - WITHIN 90 DAYS AFTER PROJECT COMPLETION, THE INFILTRATION RATE SHALL BE CONFIRMED AT THE MANUFACTURER OR VENDOR'S EXPENSE, BY A WETTED CONDITION HYDRAULIC CONDUCTIVITY TEST.
    - FAILURE TO PASS THIS TEST WILL RESULT IN REMOVAL AND REPLACEMENT OF ALL MEDIA IN THE SYSTEM AT NO COST TO THE PROJECT OWNER/OPERATOR.
    - TEST MUST UTILIZE THE EQUIPMENT AND FOLLOW THE STANDARD OPERATING PROCEDURES FOUND IN THE HARRIS COUNTY TEXAS MANUAL ENTITLED, LOW IMPACT DEVELOPMENT & GREEN INFRASTRUCTURE DESIGN CRITERIA FOR STORMWATER MANAGEMENT (2011).
    - REPLACEMENT MEDIA, IF REQUIRED, MUST BE PROVIDED FROM A DIFFERENT BATCH THAN THE ORIGINAL MATERIAL.
  - VENDOR SHALL PROVIDE, AT NO ADDITIONAL COST TO THE PROJECT OWNER/OPERATOR, MAINTENANCE OF THE BIOFILTRATION SYSTEM FOR A PERIOD OF ONE YEAR. VENDOR SHALL MAKE AVAILABLE AN EXTENDED MAINTENANCE CONTRACT IF DESIRED BY PROJECT OWNER/OPERATOR.
  - COMPOSITION AND CHARACTERISTICS OF THE BIOFILTRATION MEDIA MUST MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS AS DEMONSTRATED BY TESTING ACCEPTABLE TO THE PROJECT ENGINEER

PER MDOT ITEM 604.15  
**PRECAST CONCRETE DRAIN MANHOLE**  
 N.T.S.

PER MDOT ITEM 604.  
**PRECAST CONCRETE CATCH BASIN DETAIL**  
 N.T.S.

Revision	By	Date	Change
5	SMA	2/12/15	REVISED OWNER/APPLICANT
2	SMA	11/10/14	REVISED PER PEER REVIEW COMMENTS
1	SMA	10/10/14	REVISED PER TOWN COMMENTS

PROJECT NUMBER: 33229.02 ACAD FILE: 33229-DETAILS.DWG SCALE: NTS DATE: AUGUST 4, 2014

Drawing Name:  
**STORMBASIN DETAILS**

Project Name and Location:  
**PAMELA ROAD EXTENSION**  
 PAMELA ROAD, PORTLAND, MAINE 04101

Prepared For:  
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SHEET 11 OF 12