

STORM DRAIN STRUCTURES

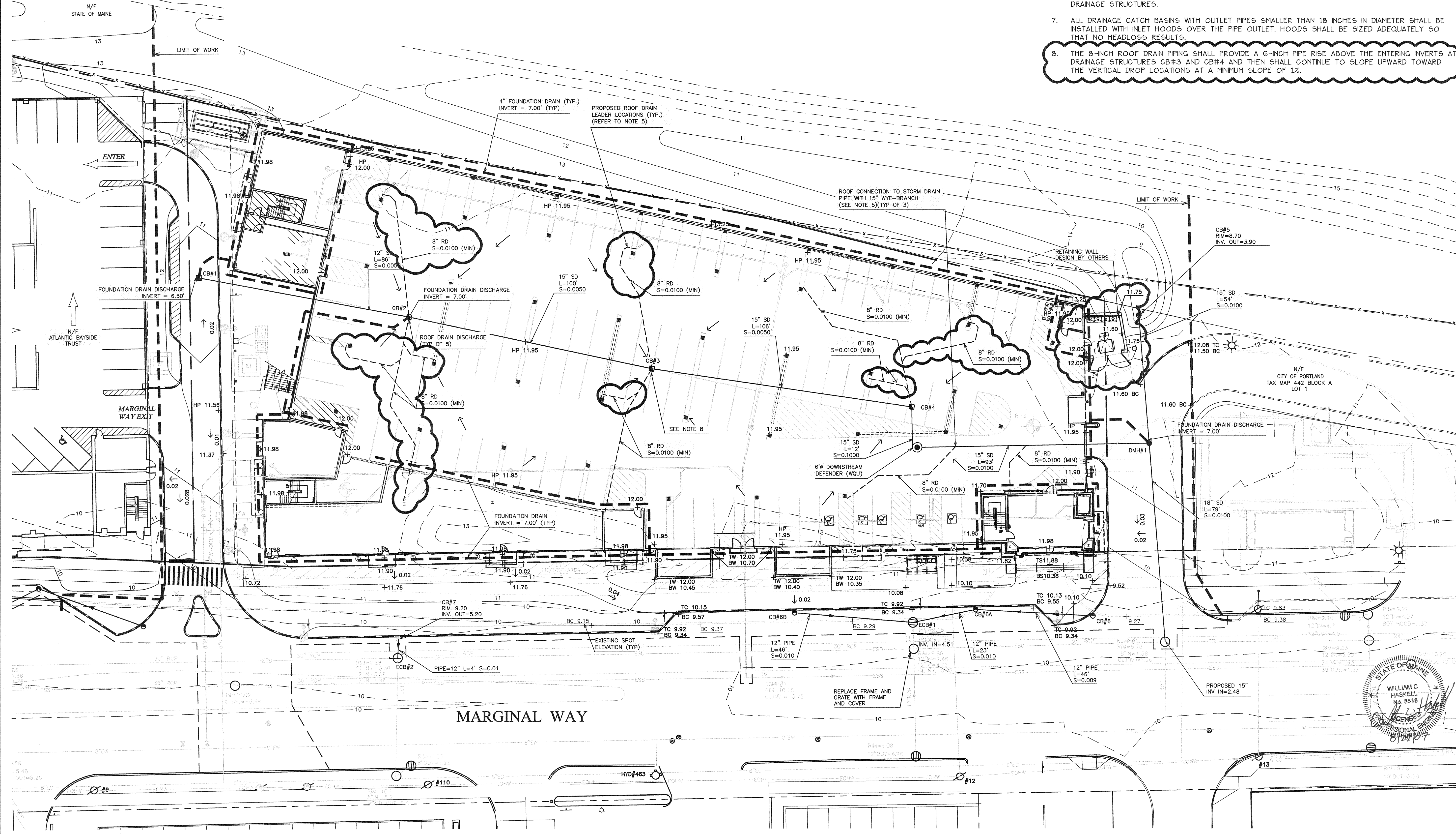
STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)
CB #1	4'	10.31	6.50/4'(CFD)	6.31/12'(CB #2)
CB #2	4'	11.15	5.88/12'(CB #1) 5.88/8'(RD) 5.88/8'(RD) 7.00/4'(CFD)	5.78/15'(CB #3)
CB #3	4'	11.15	5.28/15'(CB #2) 5.28/8'(RD)	5.18/15'(CB #4)
CB #4	4'	11.15	4.65/15'(CB #3) 5.00/8'(RD)	4.25/15'(WQU)
CB #5	4'	8.7		3.90/15'(DMH #1)
CB #6	4'	9.26		5.26/12'(CB #6A)
CB #6A	4'	9.24	4.84/12'(CB #6)	4.74/12'(ECB #1)
CB #6B	4'	9.25		4.97/12'(ECB #1)
CB #7	4'	9.2		5.20/12'(ECB #2)
DMH #1	4'	11.5	3.37/15'(WQU) 3.37/15'(CB #5) 7.00/4'(CFD)	3.27/18'(EX. DMH)
WQU	6'	11.33	3.05/15'(CB #4)	4.30/15'(DMH #1)

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED
PROPERTY LINE	---	---	STORM DRAIN	ESD	SD
MONUMENT FOUND	■ MON	---	COMBINED SEWER	ECB	---
CONTOUR	10	10	ELECTRIC SERVICE	EE	E
SPOT ELEVATION	+80.43	+80.43	GAS SERVICE	EG	G
CATCHBASIN	⊖	⊖	TELEPHONE AND CABLE SERVICE	---	T+C
DRAIN INLET	⊖	⊖	OVERHEAD WIRES	EOHW	---
MANHOLE	○	○	SITE LIGHTING ELECTRIC	---	---
HYDRANT	⊕	⊕	ELECTRIC TRANSFORMER	---	ET
WATER VALVE	⊕	⊕	TELEPHONE PAD	---	TP
UTILITY POLE	⊕	⊕	CABLE PAD	---	CP
TEST BORING	⊕	⊕	LIGHT FIXTURE - STREET	---	---
WATER SERVICE	EW	W	LIGHT FIXTURE - SITE	---	---
SEWER SERVICE	ES	S	LIGHT FIXTURE - BUILDING	---	---
			CURB	---	---

NOTES

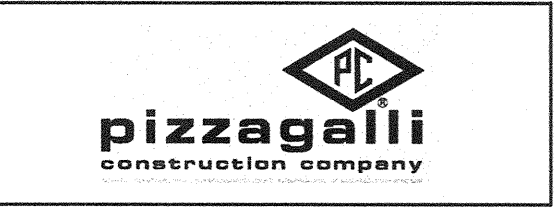
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.
2. EXISTING DRAINAGE MANHOLES SHALL BE CORED TO ACCEPT NEW DRAINAGE PIPES AS NOTED.
3. PIPE LENGTH EQUALS THE CENTER TO CENTER DISTANCES BETWEEN CATCH BASINS AND/OR MANHOLES MINUS ONE-HALF OF THE DIAMETER OF EACH CATCH BASIN OR MANHOLE.
4. ALL CATCH BASINS SHALL BE INSTALLED WITH ECCENTRIC OR CONCENTRIC CONES AS THE TOP RISER SECTION, EXCEPT WHERE COVER WILL REQUIRE A FLAT TOP SECTION TO BE USED (REFER TO CATCH BASIN DETAIL). CATCH BASINS ALONG CURB LINES SHALL BE CONSTRUCTED WITH INLET STONES.
5. ROOF DRAIN CONNECTIONS SHALL BE CONFIRMED WITH FINAL BUILDING PLANS. CURRENT LOCATIONS WERE OBTAINED FROM DRAWING P-2 BY NELL AND CLUNTER, INC. DATED AUGUST 21, 2007. CLEANOUTS SHALL BE PROVIDED ON THE VERTICAL DROPS AS NOTED ON INTERNAL PLUMBING PLANS. ROOF DRAIN PIPING SHALL BE 8" SOLID PIPE LAID WITH A MINIMUM SLOPE OF 1%. ROOF DRAIN LEADERS SHALL CONNECT TO THE DRAINAGE STRUCTURES AS SHOWN OR SHALL CONNECT INLINE TO THE STORM DRAIN WITH 15"x8" WYE-BRANCH FITTINGS.
6. FOUNDATION DRAIN IS 4" DRAINAGE PIPE BEDDED IN CRUSHED STONE AND WRAPPED IN FILTER FABRIC AROUND THE ENCLOSED BUILDING AREA OF THE GROUND LEVEL AND SHALL OUTLET TO THE NEAREST DRAINAGE STRUCTURES.
7. ALL DRAINAGE CATCH BASINS WITH OUTLET PIPES SMALLER THAN 18 INCHES IN DIAMETER SHALL BE INSTALLED WITH INLET HOODS OVER THE PIPE OUTLET. HOODS SHALL BE SIZED ADEQUATELY SO THAT NO HEADLOSS RESULTS.
8. THE 8-INCH ROOF DRAIN PIPING SHALL PROVIDE A 6-INCH PIPE RISE ABOVE THE ENTERING INVERTS AT DRAINAGE STRUCTURES CB#3 AND CB#4 AND THEN SHALL CONTINUE TO SLOPE UPWARD TOWARD THE VERTICAL DROP LOCATIONS AT A MINIMUM SLOPE OF 1%.



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Revisions:
JUNE 26, 2007 - REVISED UTILITY AND ROOF DRAINAGE
JULY 17, 2007 - CONSTRUCTION DRAWINGS
AUGUST 6, 2007 - REVISED BUILDING AND SPOT ELEVATIONS
AUGUST 29, 2007 - REVISED DRAINAGE

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Title: GRADING AND DRAINAGE PLAN

Scale: 1"=20'

0 10 20 40 ft.

North: [North Arrow]

Sheet No: 3

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