

LEGEND:

- DRAIN MANHOLE
- CATCH BASIN
- CATCH BASIN - DOUBLE GRATE
- FLARED END SECTION
- DRAIN LINE
- RIPRAP OUTFALL
- HEADWALL
- 5' CONTOUR
- 1' CONTOUR
- SPOT GRADE
- RETENTION SYSTEM
- RETENTION PIPE
- OUTLET CONTROL STRUCTURE
- STORMCEPTOR

- NOTES:**
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
 - ALL ELEVATIONS REFER TO NAVD 29.
 - ROOF DRAIN LOCATIONS TO BE BASED ON FINAL BUILDING PLANS. CONNECTION POINTS TO DRAINAGE SYSTEM SHALL BE AS SHOWN HEREON.
 - PIPE DIMENSIONS ARE MEASURED FROM THE INSIDE FACE OF THE STRUCTURE.
 - ALL RETAINING WALLS OR LEDGE FACE WALLS THAT REACH HEIGHTS GREATER THAN 30 INCHES WILL REQUIRE FALL PROTECTION. FALL PROTECTION SHALL BE COMPRISED OF A MINIMUM 42 INCH HIGH FENCE ABLE TO RESIST CONCENTRATED LOADS OF 200 LBS. FENCE TYPE AND MATERIAL TO BE DETERMINED.
 - ALL DRAIN PIPES SHALL BE HDPE SDR 17 PIPE (SMOOTH INTERIOR) UNLESS OTHERWISE NOTED.
 - ALL HDPE FITTINGS AT THE MANHOLES SHALL HAVE ANSI CLASS 150 316 STAINLESS STEEL BACKING RINGS.
 - UNLESS OTHERWISE NOTED, ALL PIPE AND FITTINGS SHALL BE SDR 17 RATED AT 100 PSI.
 - HDPE PIPE SHOULD BE JOINED BY BUTT-FUSION METHODS, HAVING A COMPLETELY UNIFORM AND MONOLITHIC PIPE INTERIOR ACCORDING TO THE FUSION JOINING PROCEDURES AS INSTRUCTED BY THE MANUFACTURER.

ISSUED FOR REVIEW
NOVEMBER 13, 2015

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
G	11/09/2015	ISSUED FOR APPROVAL
F	04/29/2015	REVISED FOR WHOLE FOODS APPROVAL
E	01/15/2015	REVISED PER PEER REVIEW COMMENTS
D	01/05/2015	REVISED PER PEER REVIEW COMMENTS
C	11/20/2014	REVISED PER CITY COMMENTS
B	10/14/2014	ISSUED FOR LOCAL APPROVAL
A	09/08/2014	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
CEA BEVERLY LLC
1105 MASSACHUSETTS AVENUE
SUITE #2F
CAMBRIDGE, MA 02138

PROJECT:
NORTH SHORE CROSSING
BRIMBAL AVENUE AND SOHIER ROAD
BEVERLY, MA

PROJECT NO.	1976-01B	DATE:	08-29-2014
SCALE:	1" = 40'	DWG. NAME:	C1976-01B
DESIGNED BY:	SJL	CHECKED BY:	CMQ

PREPARED BY:

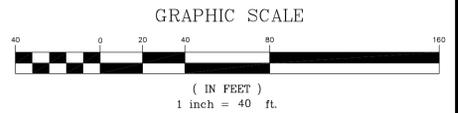
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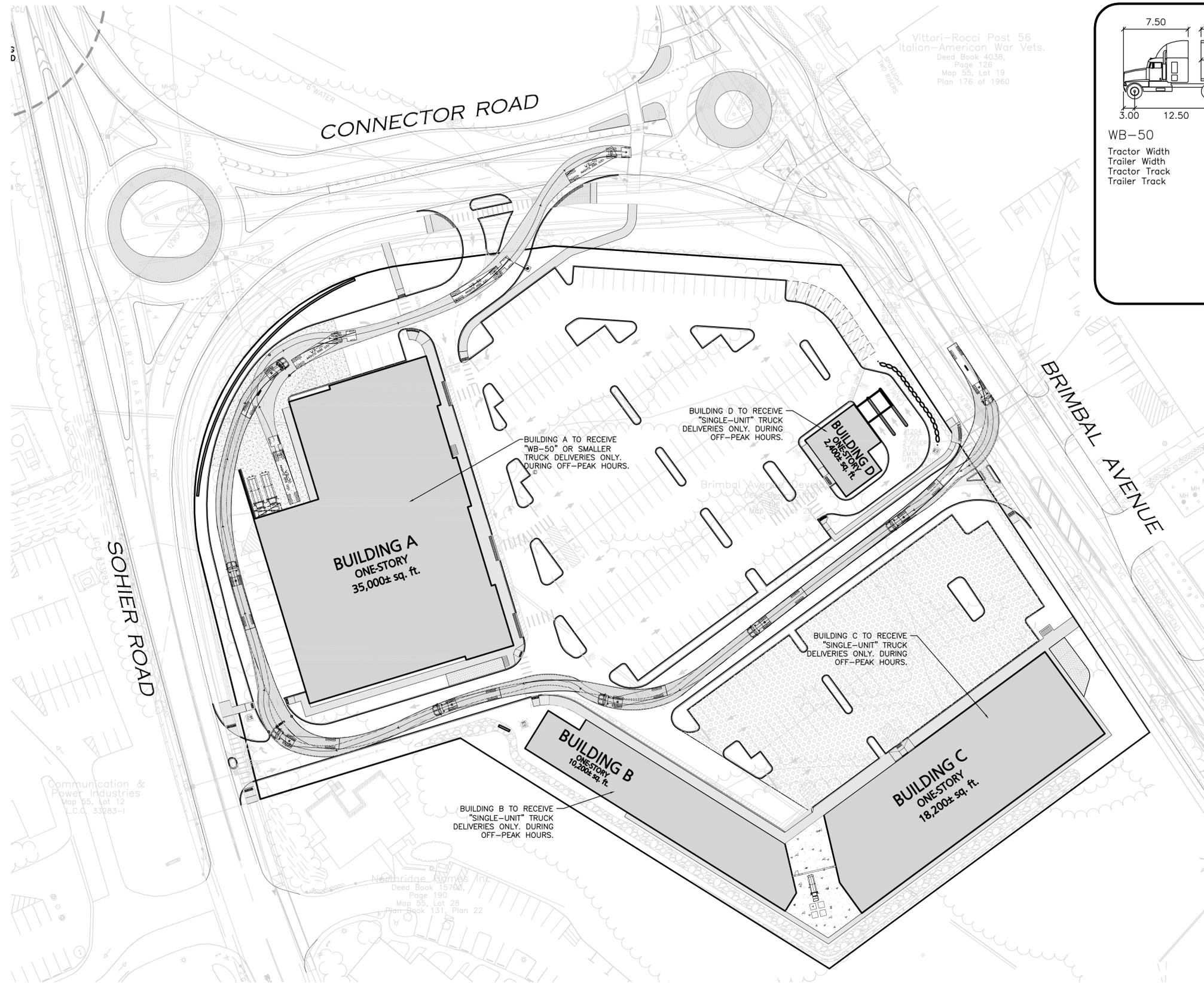
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DRAWING TITLE: **GRADING & DRAINAGE PLAN** SHEET No. **C-2**
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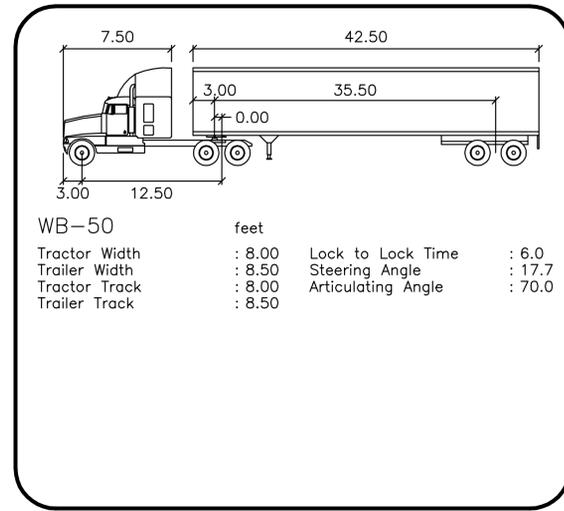
BENCHMARK SUMMARY

TBM #	DESCRIPTION	ELEV.
	EPLP IN MHB	88.86
	STONE CORNER - NE CORNER	88.72
	BOLT OVER MAIN HYD. OUTLET - X CUT SET	88.57





Vittori-Rocci Post 56
 Italian-American War Vets.
 Deed Book 4038,
 Page 126
 Map 55, Lot 19
 Plan 176 of 1960



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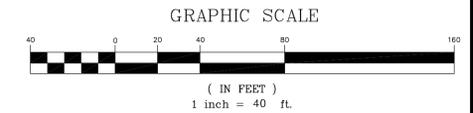
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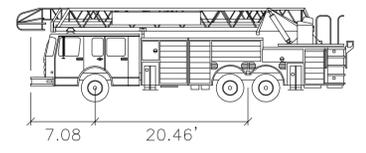
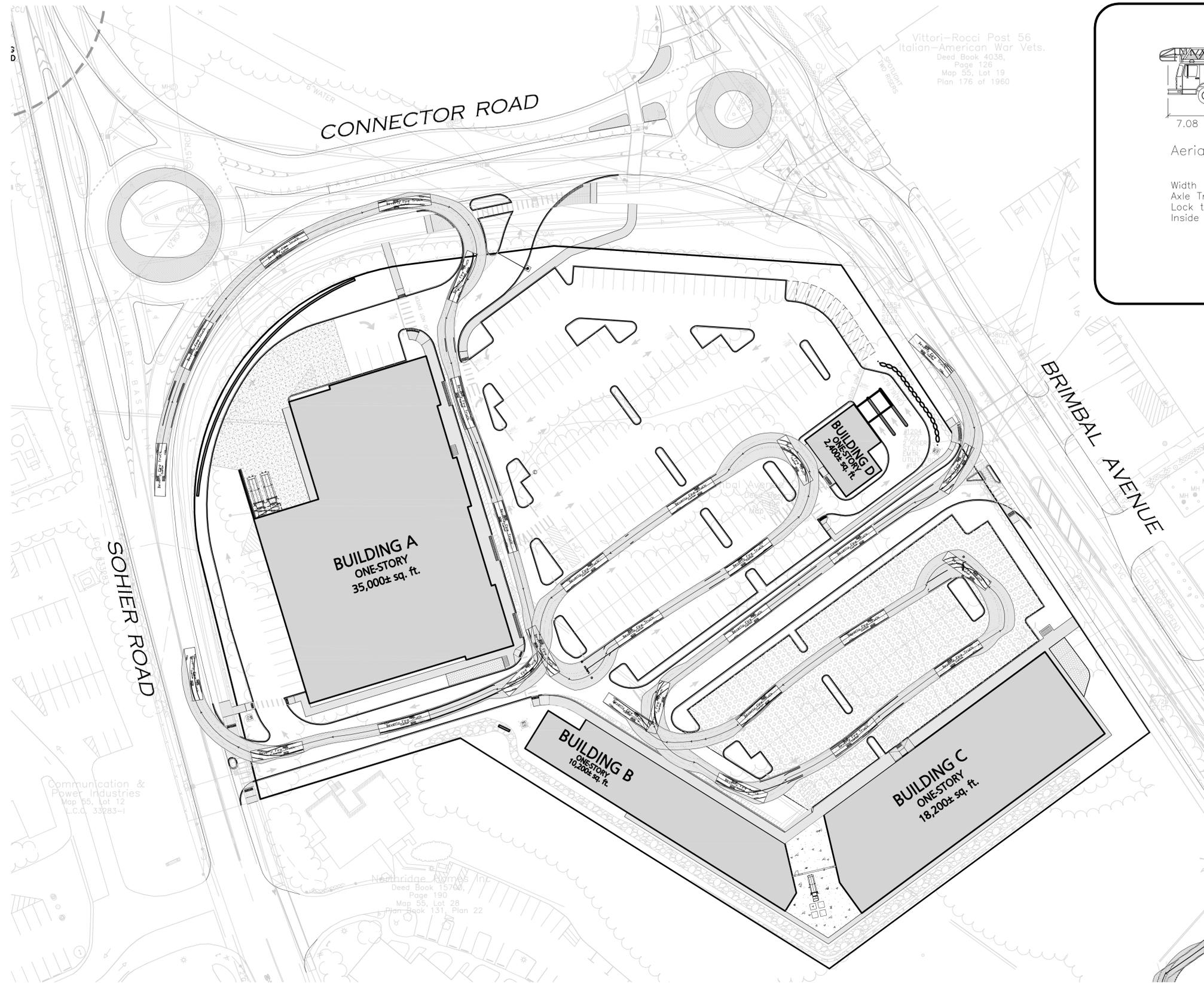
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DRAWING TITLE:	SHEET No.
TRUCK TURNING PLAN	C-7A

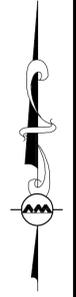
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Aerial Fire Truck

	feet
Width	: 8.50
Axle Track	: 6.91
Lock to Lock Time	: 6.0
Inside Cramp Angle	: 45.0



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FIRE TRUCK TURNING PLAN	C-7B

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