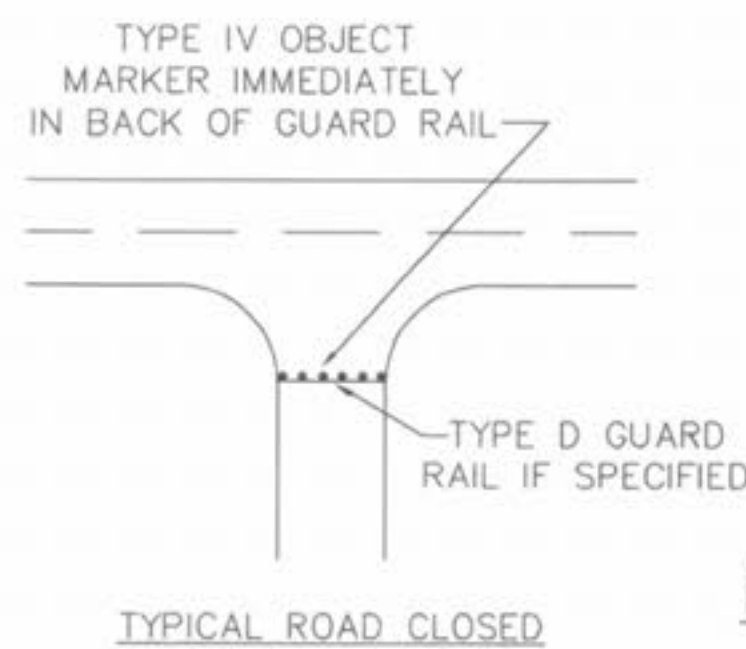
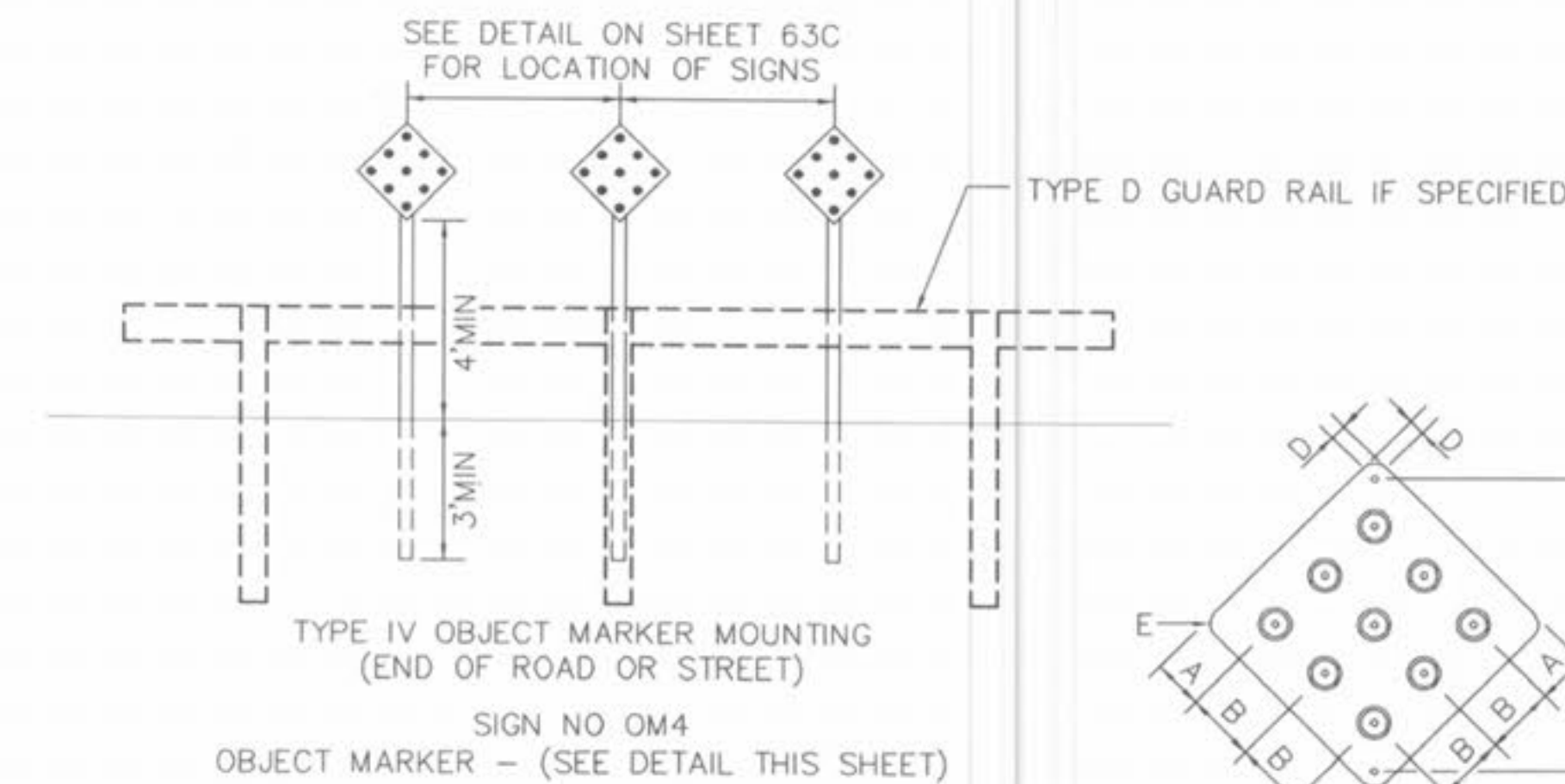
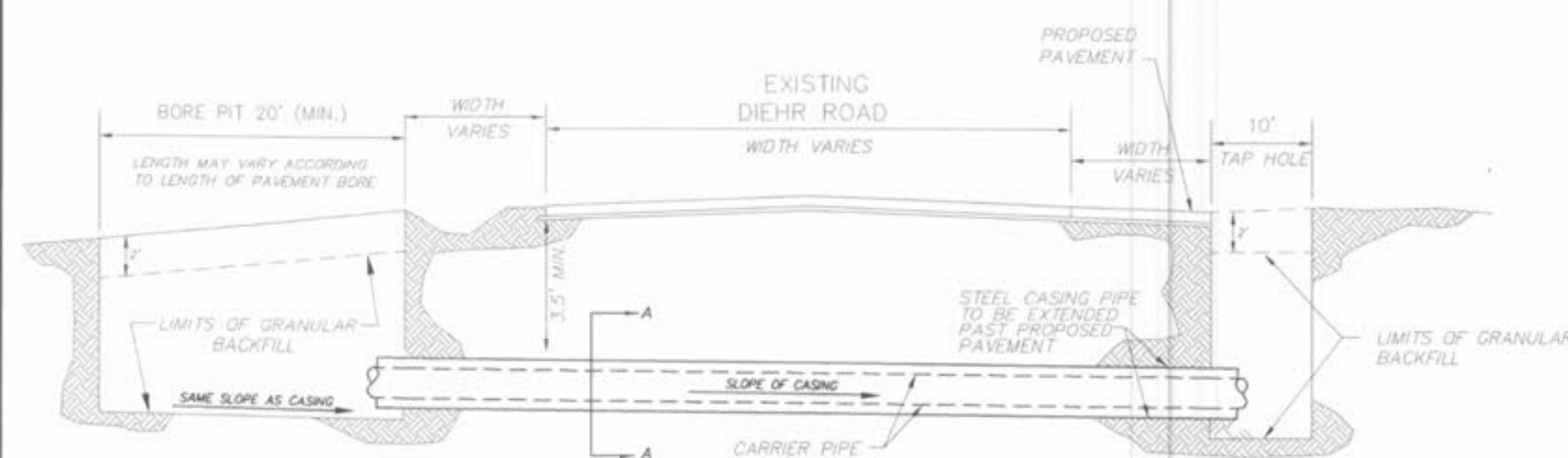




SIGN	A	B	C	D	E	F
18"x18"	3-11/16"	5-5/16"	3-1/4"	1-1/4"	1-1/2"R	22"

TYPE IV OBJECT MARKER
RED REFLECTOR ON RED BACKGROUND
THICKNESS OF FLAT SHEET FOR TYPE IV
OBJECT MARKER SHALL BE 0.063"

BARRICADE DETAIL NTS

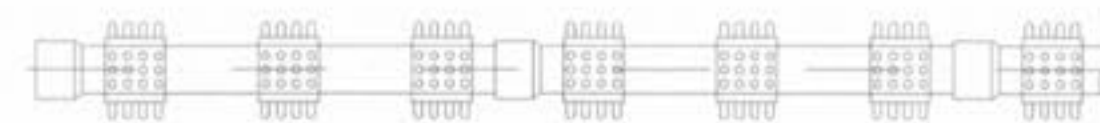


WATERLINE BORE DETAIL

BORING NOTES

- DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
- INSTALLATION OF THE CASING AND CARRIER PIPES SHALL MEET THE REQUIREMENTS FOR P.W.S.D. No. 2 SPECIFICATIONS.
- ALL JOINTS IN THE CASING PIPE SHALL BE WELDED.
- CARRIER PIPE IS TO BE DUCTILE IRON PIPE CONFORMING TO AWWA C-151 AND BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH AWWA C-104. THE JOINTS SHALL BE PUSH ON TYPE WITH RUBBER GASKETS CONFORMING TO AWWA C-111. PIPE UNDER ROAD SHALL BE PRESSURE CLASS 350 WITH CLASS 52 WALL THICKNESSES.

- CARRIER PIPE SHALL BE 8" DIA. D.I.P.
- CASING PIPE SHALL BE 18" WELDED STEEL PIPE WITH A MINIMUM WALL THICKNESS OF 1/4", AND SHALL BE UNPAINTED OR COATED.
- NOTE: EXISTING FACILITIES ARE TO REMAIN IN USE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SERVICE LINES AND UTILITIES PRIOR TO CONSTRUCTION.

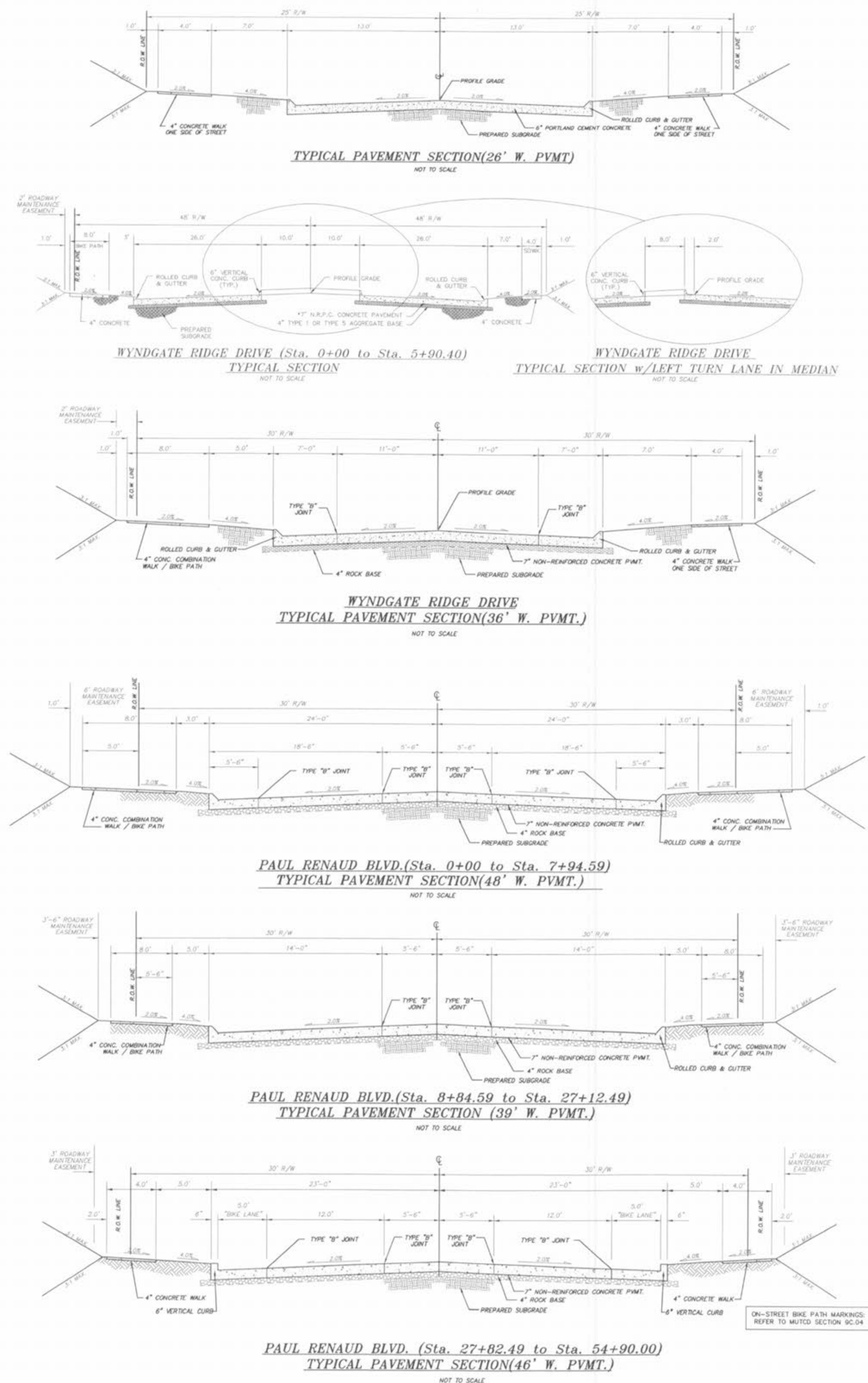


SPACING DETAILS

"RACI" TYPE SPACERS AT 6' INTERVALS
OR 3 SPACERS PER 20' LENGTH OF PIPE.

SECTION A-A

ENCASEMENT SPACER DETAILS



REVISIONS	NO.	DATE	REVISED PER CITY
	1	10/25/04	REVISED PER CITY OF ST. LOUIS
	2	02/16/05	REVISED PER CITY OF ST. LOUIS
	3	04/09/05	REVISED PER CITY AND CLIENT
	4	04/13/05	REVISED PER CITY

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthorized.



DRAWN J.E.E.	DATE 6-29-04
CHECKED D.W.D.	DATE 6-29-04
PROJECT # 01267.SUPD.02R	FIELD BOOK