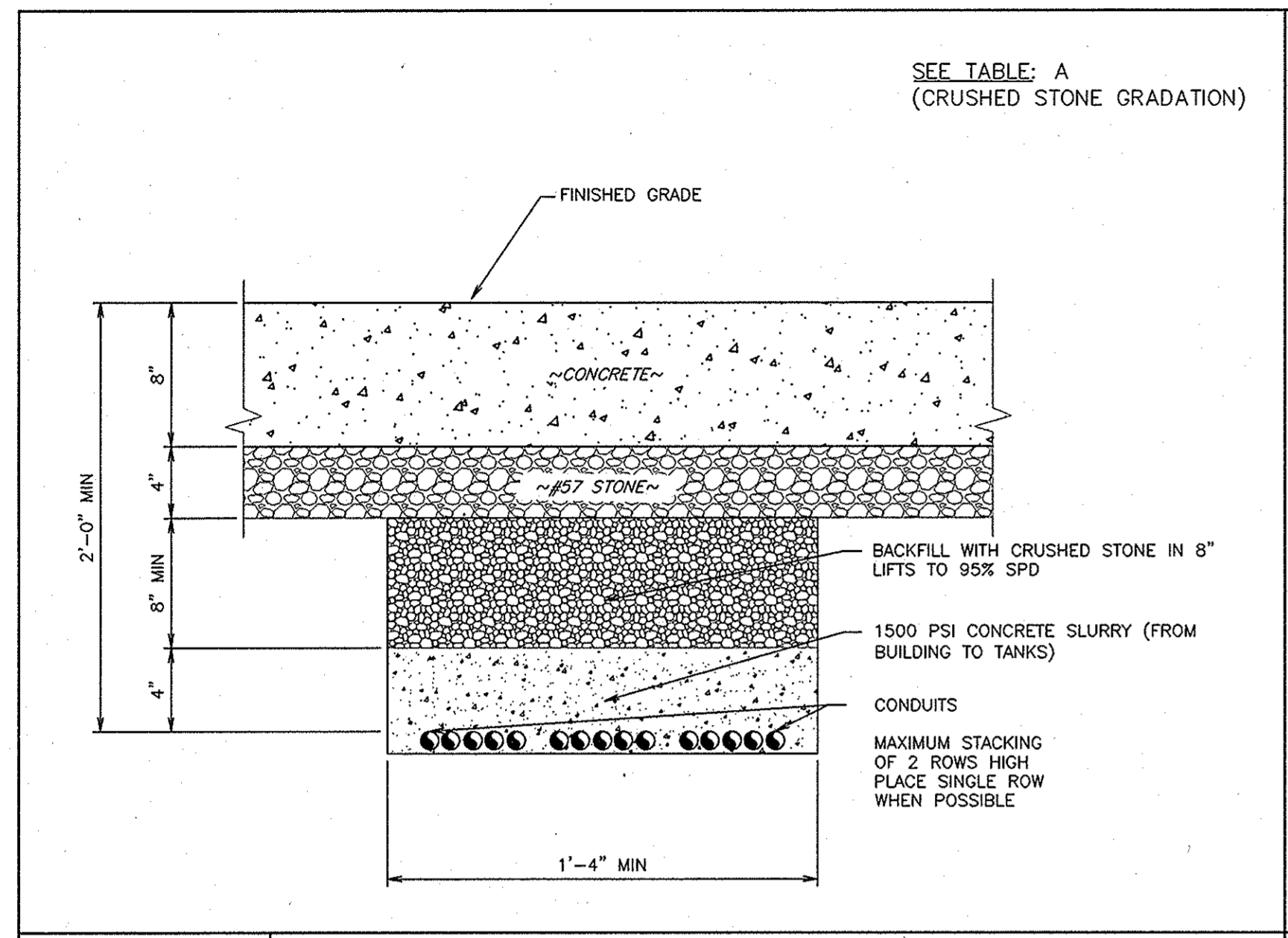
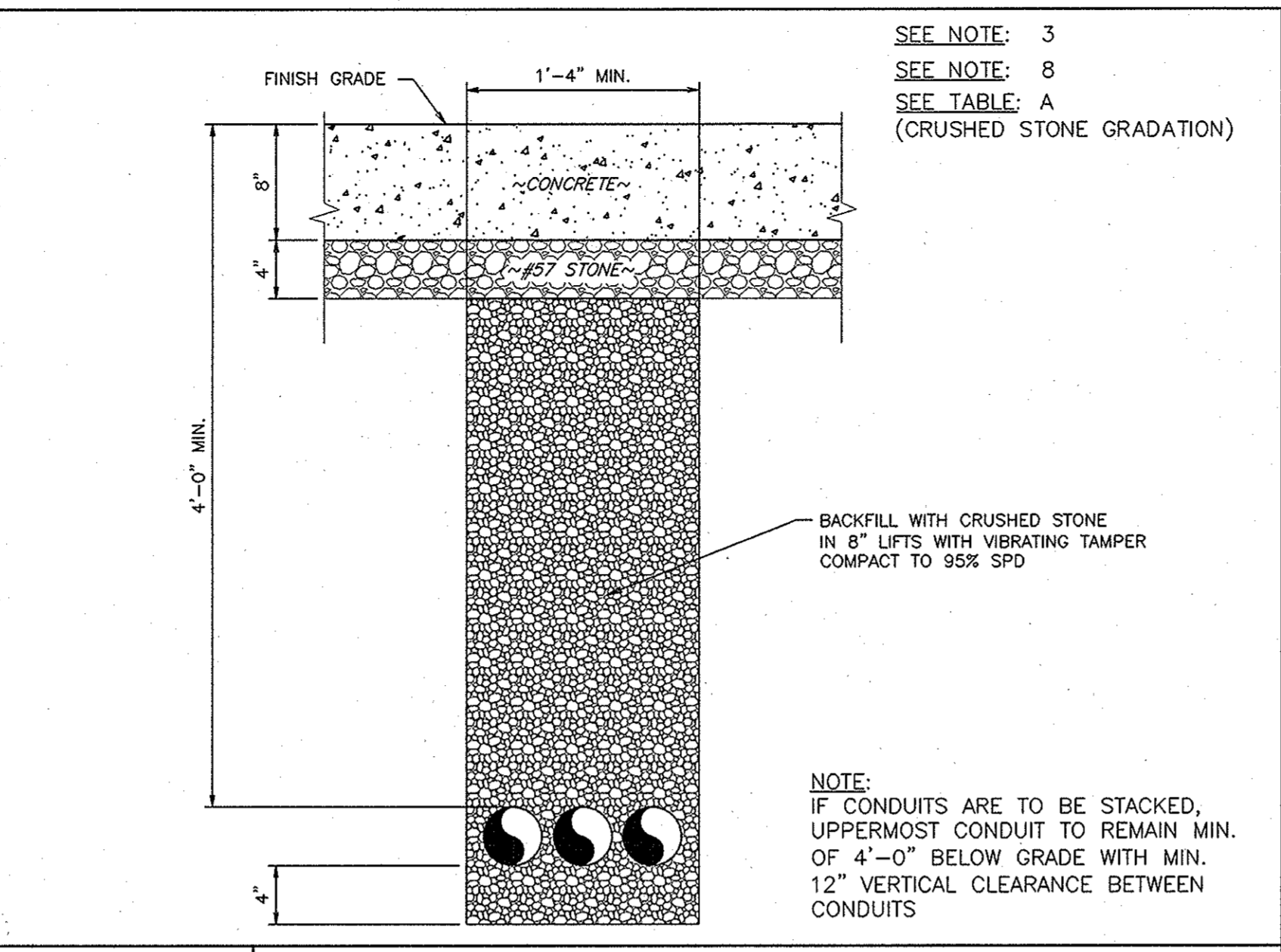


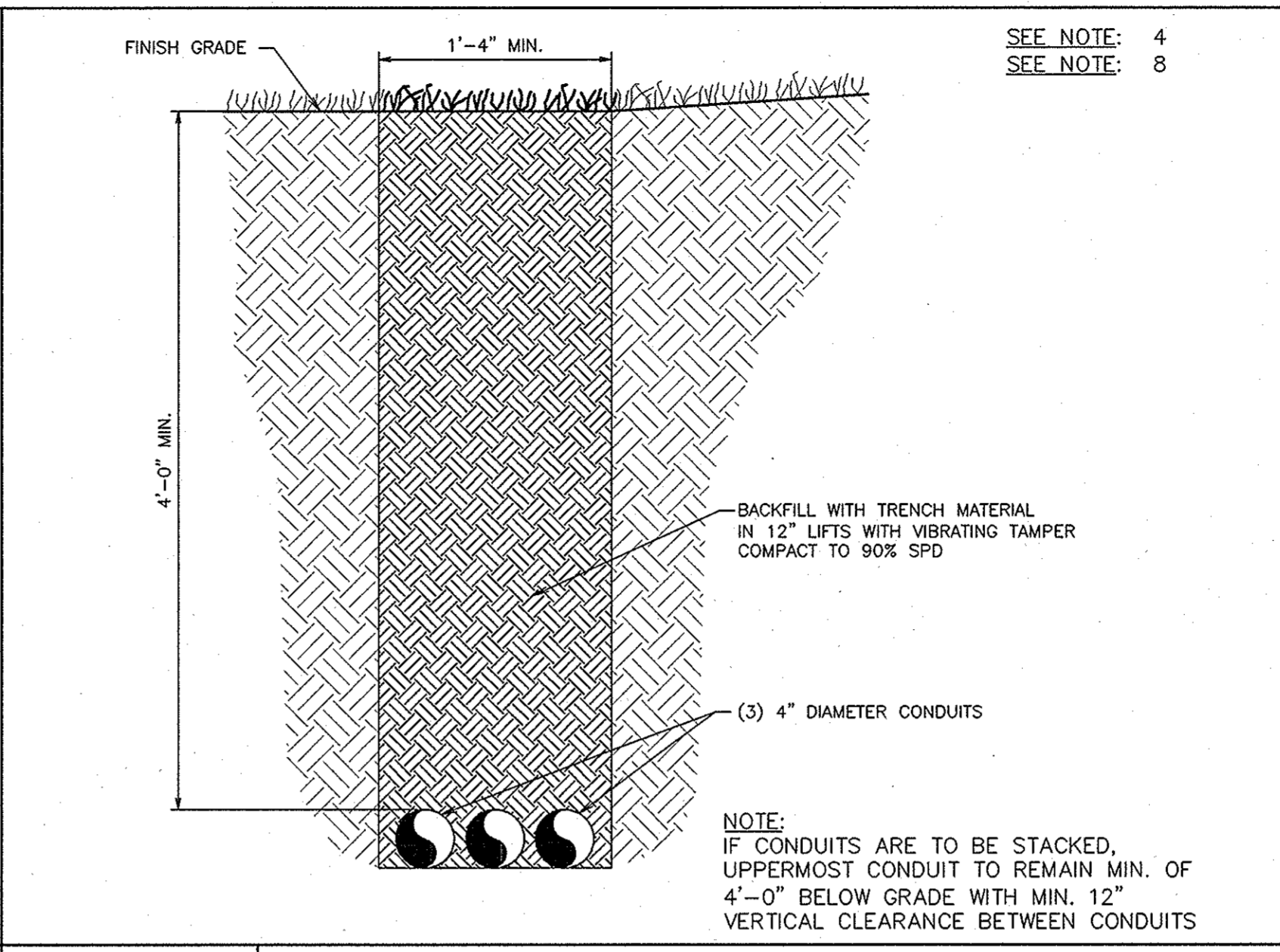
G:\01\106-0021 Wichita-KS\Drawings\Civil\Details\316 City SWS Details 8-9.dwg - Sheet 2 Jul 30, 2008 9:10am



TD 2-1  
NOT TO SCALE  
ELECTRICAL CONDUIT TRENCH SECTION FROM TANK PIT TO BUILDING

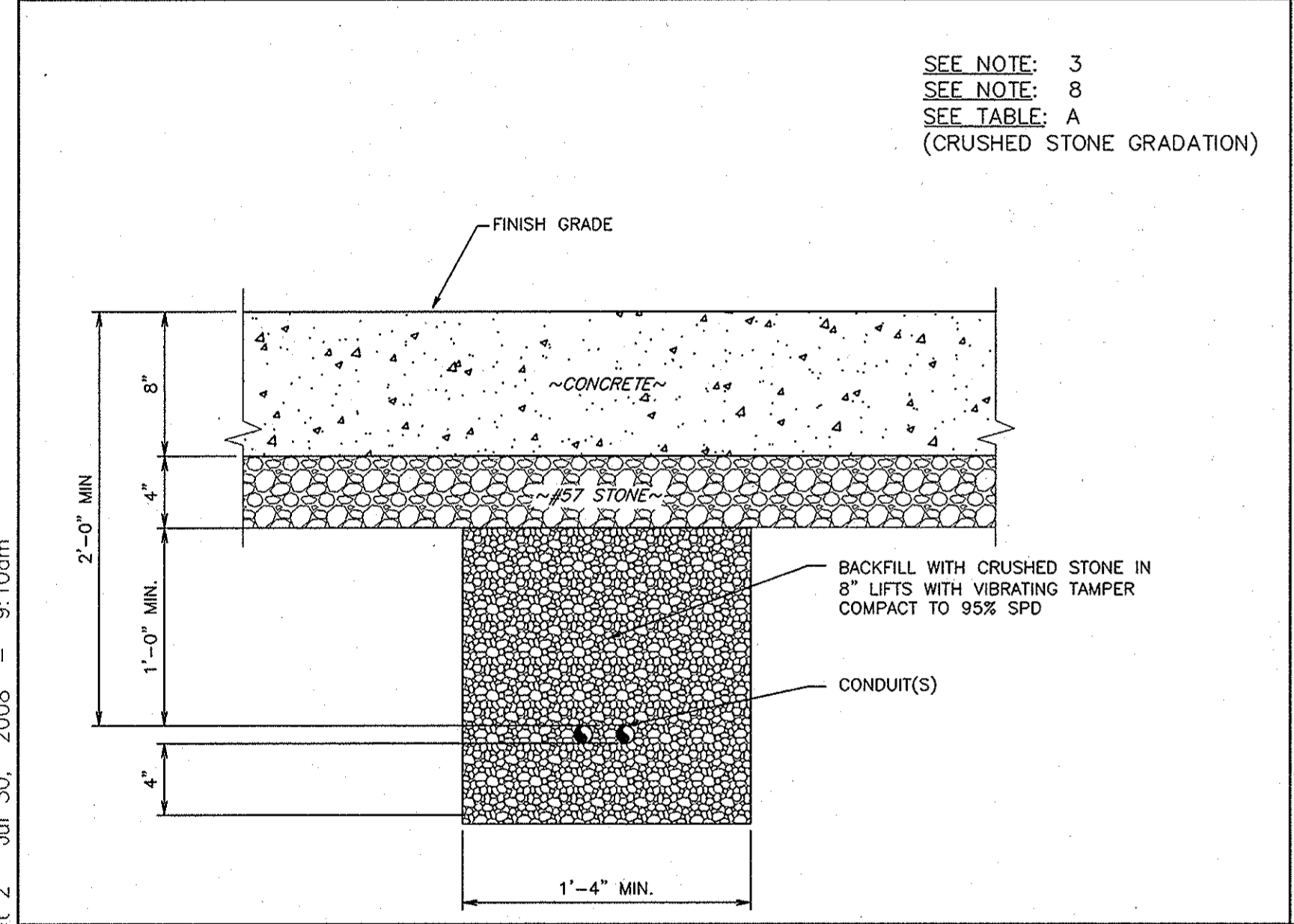


TD 2-2  
NOT TO SCALE  
PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (PAVED)

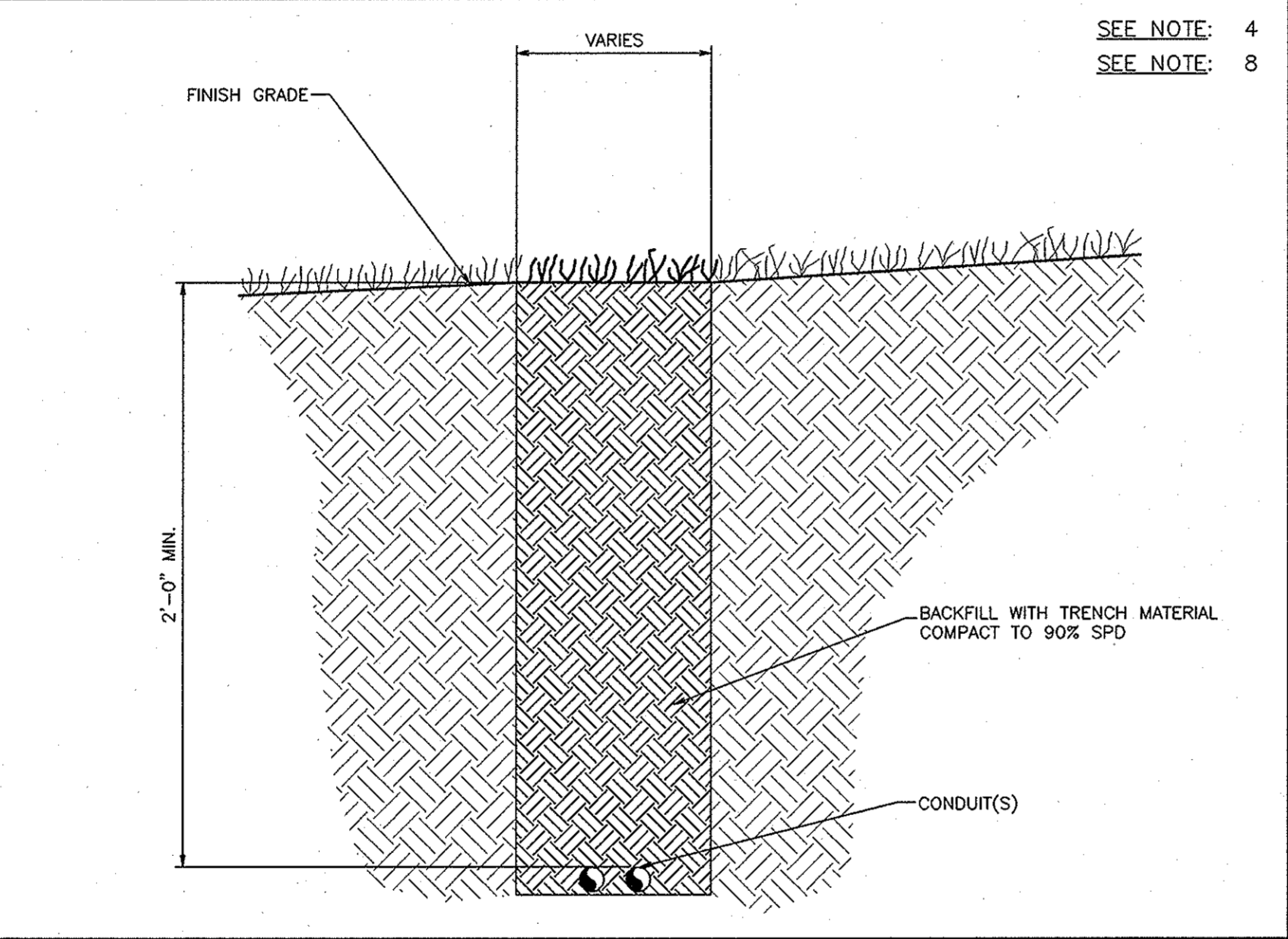


TD 2-3  
NOT TO SCALE  
PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (NON PAVED)

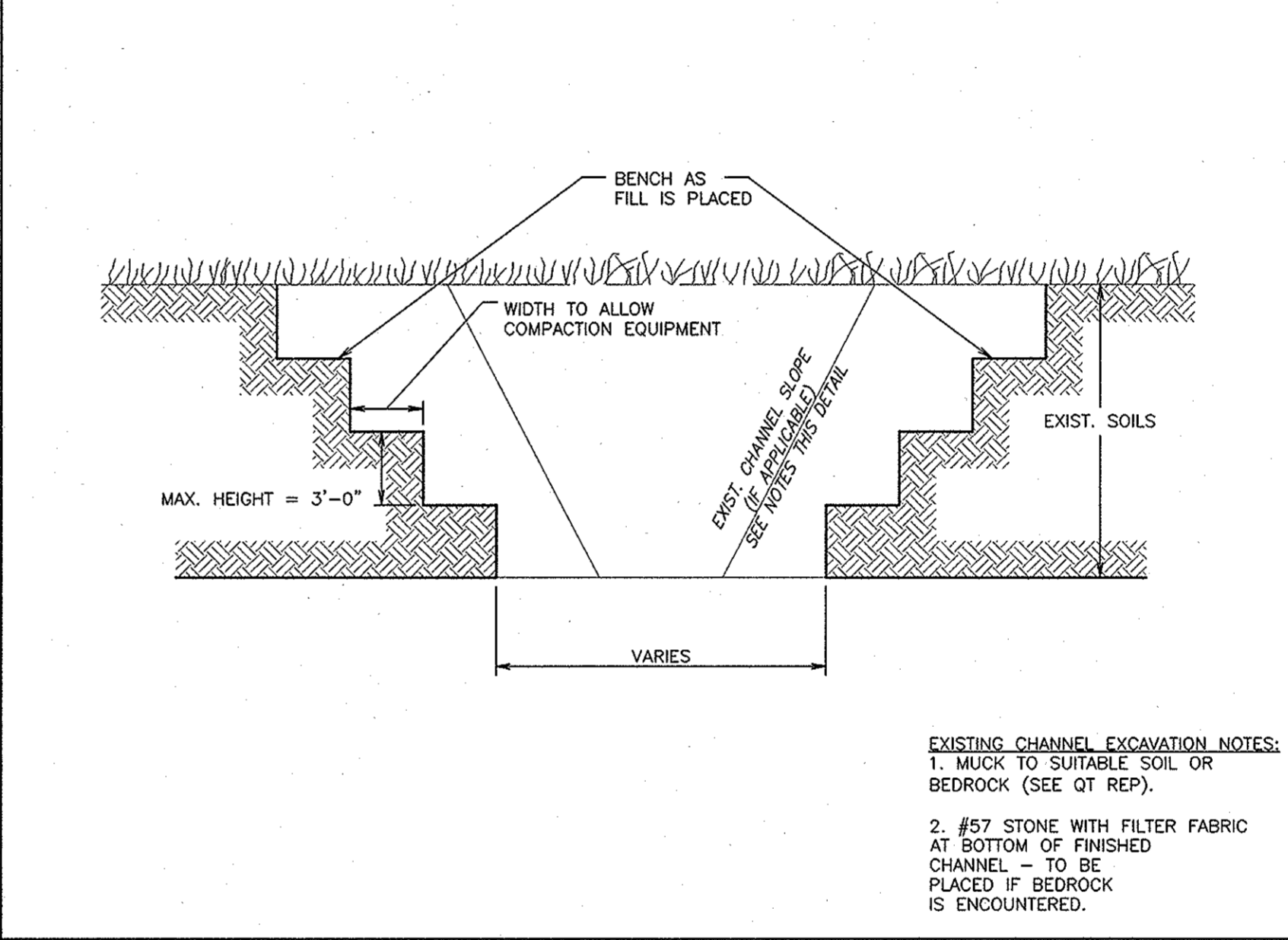
SITE BENCHMARK  
"a" Chiseled on Traffic  
Signal Light Pole  
at NW corner of 143rd St & Kellogg Ave.  
Elevation=1318.61  
(NGVD 29)



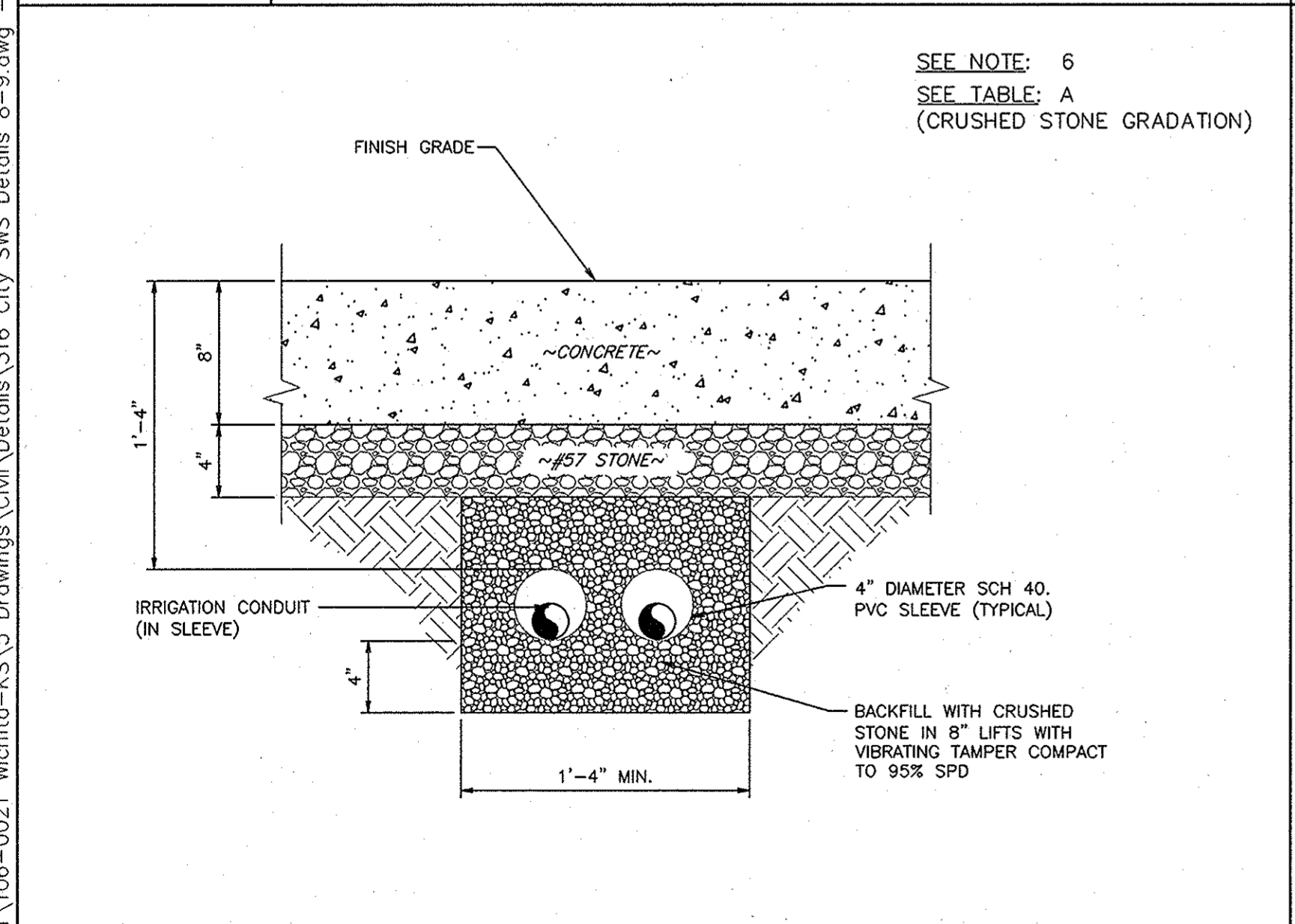
TD 2-4  
NOT TO SCALE  
1" OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (PAVED)



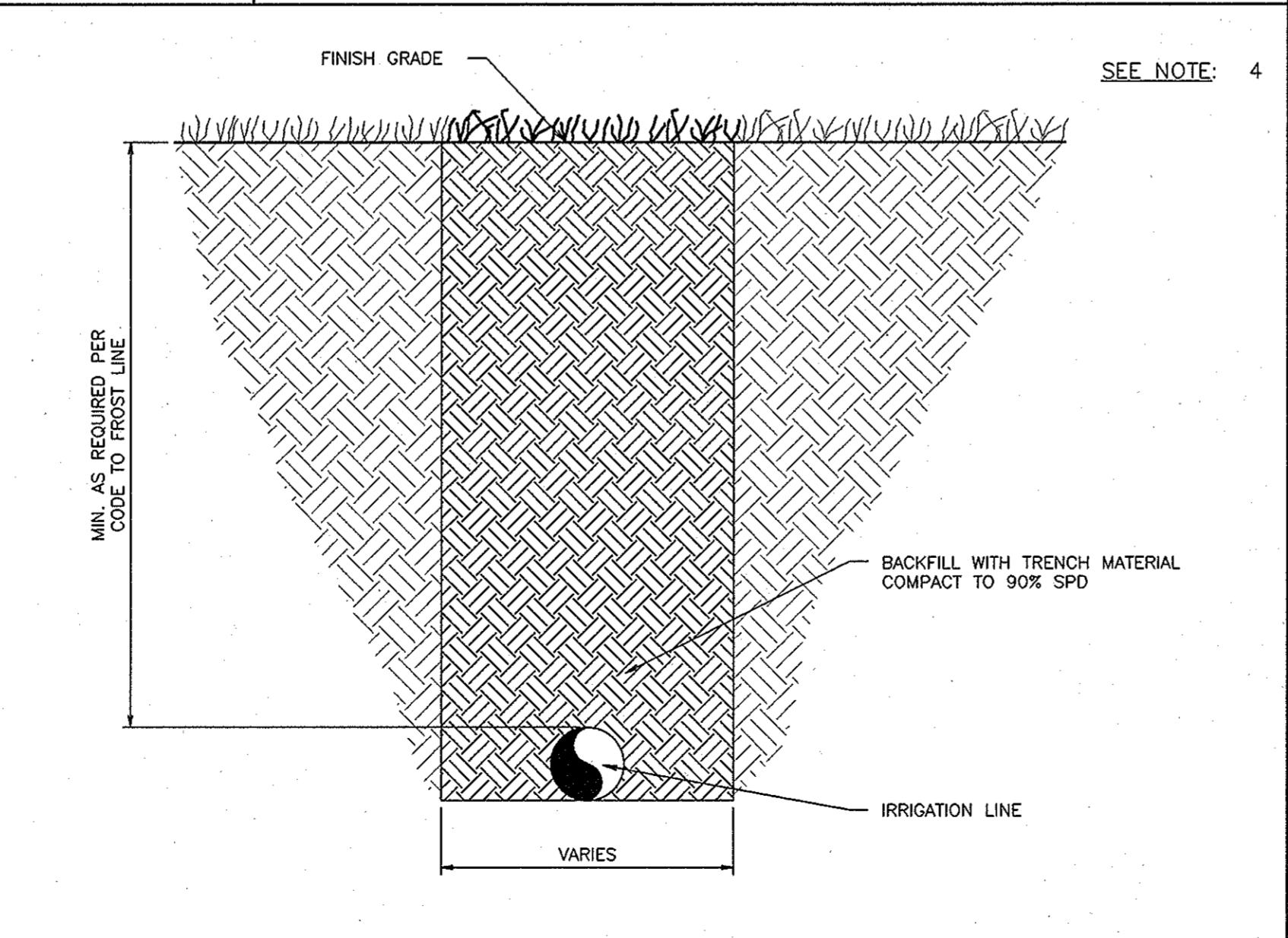
TD 2-5  
NOT TO SCALE  
1" OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (NON PAVED)



TD 2-6  
NOT TO SCALE  
EXCAVATION BENCHING DETAIL



TD 2-7  
NOT TO SCALE  
TYPICAL IRRIGATION PIPING TRENCH SECTION (PAVED)



TD 2-8  
NOT TO SCALE  
TYPICAL IRRIGATION PIPING TRENCH SECTION (NON PAVED)

NOTES

1. UNDER PAVEMENT, CURB, & FRENCH DRAIN PIPE MUST BE TAKEN TO STORM STRUCTURE, OR TO SURFACE DRAINAGE SWALE.
2. GEOTECH FABRIC UNDER PAVEMENT SHALL BE UTILIZED WITH A "PERFORATED" DRAIN DETAIL. SUCH AS A FRENCH DRAIN OR UNDER PAVEMENT DRAIN.
3. EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL.
4. TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT.
5. ALL COPPER PIPING SHALL BE TYPE K WRAPPED IN 3M VINYL TAPE FROM THE BUILDING TO THE METER.
6. EXTEND THIS SECTION 5' BEYOND BACK OF CURB (OUTSIDE EDGE OF DRIVE)
7. SEE GRADING PLAN FOR LOCATION BEFORE TRANSITION TO NON PAVED TRENCH SECTION.
8. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - REF PLAN SHEETS
9. MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC.

TABLE A: CRUSHED STONE GRADATION	
REQUIREMENTS	PERCENT BY WEIGHT
PASSING 2" SIEVE	100
PASSING 1 1/2" SIEVE	97-100
PASSING 3/4" SIEVE	60-90
PASSING NO. 10 SIEVE	25-45
PASSING NO. 60 SIEVE	5-30
PASSING NO. 200 SIEVE	0-15

TD 2-9  
NOT TO SCALE  
NOTES AND GRADATION TABLE

Revision	
Date	
No.	
BSW INTERNATIONAL ENGINEERS, P.C. <small>ONE WEST THIRD ST., STE. 800 PICKAWAY, MO 64621 PHONE (816) 265-1221 FAX (816) 597-3594 CERTIFICATE OF AUTHORITY NO. E-510 EXPIRATION DATE 12/31/2008</small>	
Drainage & Utility TRENCHING DETAILS-2 CITY OF WICHITA, KANSAS JIM ARNOUR, P.E. - CITY ENGINEER	
Designed By:	J. Crisp
Drawn By:	J. Bradford
BSW Job No.:	106-0021
Date:	07/30/08
Sheet	9 of 9