PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS". TOTAL THICKNESS TO MATCH EXISTING OR 4" (MIN.) BITUMINOUS CONCRETE BITUMINOUS CONCRETE BINDER COURSE 2 1/2" (MIN.) SURFACE COURSE 1 1/2" (MIN.) EX. BIT. SURFACE FULL DEPTH SAW CUT (TYP.) BITUMINOUS MATERIALS BITUMINOUS BASE COURSE EX. BITUMINOUS THICKNESS TO MATCH EXISTING 6" GRANULAR MATERIAL (100% CRUSHED CA-6) COMPACTED GRANULAR BACKFILL MATERIAL - SEE PROJECT MANUAL - 12"(MIN.) ALL FLEXIBLE PIPE 4"(MIN.) RIGID PIPE 24-INCH AND SMALLER GRANULAR PIPE BEDDING AND COVER MATERIAL** IDOT GRADATION CA-11 UNLESS AN ALTERNATE IS NOTED IN PROJECT MANUAL FOR RIGID PIPE 27-INCH AND LARGER - TO CENTERLINE OF PIPE. SEE PROJECT MANUAL OR PLAN SHEETS PIPE DIA WIDTH

12" OR SMALLER = 30"
14" TO 18" = 36"
20" TO 24" = 42"
27" TO 30"

TYPICAL TRENCH DETAIL

TRENCH WIDTH

FOR PAVEMENT WITH BITUMINOUS BASE AND COMPACTED GRANULAR BACKFILL MATERIAL * FOR FLEXIBLE THERMOPLASTIC OR HDPE PIPE COMPLY WITH

FOR RIGID PIPE COMPLY WITH ASTM C12 BEDDING CLASS B.

MANHOLE FRAME

ASTM 2321, CLASS I OR II.

NOTE: PROJECT MANUAL REFERS TO ``PROJECT SPECIFICATIONS'', NOT TO IDOT STANDARD SPECIFICATIONS. * FARM FIELDS, GARDENS, AND WETLAND AREAS MAY REQUIRE STRIPPING, STOCKPHLING, AND REPLACING ORIGINAL MATERIAL TO A SPECIFIC DEPTH SEE PROJECT MANUAL OR GENERAL NOTES FOR REQUIREMENTS FOR TRENCHES IN UNIMPROVED AREAS AND CULTIVATED FIELDS WHERE CROWNING IS ALLOWED TO COMPENSATE FOR SETTLEMENT. EXCAVATED GRANULAR PIPE BEDDING *
AND COVER MATERIAL
IDOT GRADATION CA-11 UNLESS AN ALTERNATE IS AND SMALLER NOTED IN PROJECT MANUAL

TYPICAL TRENCH DETAIL

33" AND LARGER = 0.D.x1 1/3

MAXIMUM

TRENCH WIDTH

FOR RIGID PIPE COMPLY WITH ASTM C12 REDDING CLASS R

FOR TRENCHES IN LAWNS. FOR TRENCHES IN LAWNS, PARKWAYS AND OTHER IMPROVED AREAS NOT SUBJECT TO VEHICULAR TRAFFIC. COMPACT MAXIMUM LIFTS OF 12-INCHES TO 85% OF MAXIMUM DENSITY. -12"(MIN.) ALL FLEXIBLE PIPE 4"(MIN.) RIGID PIPE 24-INCH FOR RIGID PIPE 27-INCH AND LARGER - TO CENTERLINE OF PIPE. PROPOSED PIPELINE SEE PROJECT MANUAL OR PLAN SHEETS PIPE DIA. WIDTH
12" OR SMALLER = 30"
14" TO 18" = 36"
20" TO 24" = 42"

BUILDING SERVICE RISER DETAIL

FOR SEWER INVERT DEPTHS OVER 12 FEET

FOR NON-PAVED AREAS

* FOR FLEXIBLE THERMOPLASTIC OR HDPE PIPE COMPLY WITH

PRECAST CONC. ADJUSTING RING 8" MAX. JOINTS NOTE:
1. ECCENTRIC CONES REQUIRED, FLAT
SLAB TOPS PERMITTED ONLY FOR
MANHOLES TOO SHALLOW FOR CONES.
2. USE 4'-0" DIAMETER FOR
SEWER SIZES 8" THRU 21", 5'-0"
DIAMETER FOR SEWER SIZES 24" THRU 33",
TATALYSES THERMEN'S MODE MANHOLE STEPS PRECAST CONCRETE MANHOLE SECTIONS CONCRETE ENCASEMENT "A"- DIAMETER OF INCOMING SEWER "B"- DIAMETER OF DROP PIPE INVERT CHANNEL TO CONFORM TO ELEVATION WHEN: "A"=12-INCH OR LESS,
"B"="A" BUT NOT SMALLER THAN 8-INCH.
WHEN: "A"=GREATER THAN 12-INCH, BUT
LESS THAN OR EQUAL TO 18-INCH,
"B"=12-INCH. SHOWN ON DRAWINGS SLOPE 1"-2" PER FT. CONCRETE FLEXIBLE BENCH WHEN: "A" = GREATER THAN 18-INCH,
"B" = 23 "A" MINIMUM. PIPE CONNECTOR NOTE; USE OUTSIDE DROP WHEN ANY ENTERING SEWER INVERT DIFFERS BY 2'-0" OR MORE FROM INVERT OF MANHOLE MATCH CROWN OF OUTLET PIPE WHERE OUTLET PIPE IS 30-INCH DIA OR SMALLER SEE PLAN SHEETS FOR INVERT ELEVATIONS FOR PIPE SIZES LARGER THAN 30-INCH DIAMETER. BEDDING MATERIAL OUTSIDE DROP DETAIL

SANITARY MANHOLE DETAIL

27" TO 30" = 48" 33" AND LARGER = 0.D.x1 1/3

NO SCALE



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS	- ,,	TRENCHES	AND	SANITARY	SEWERS	
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			DV 0514/500	F.A. RTÉ.	SECTION	COUNTY	SHEETS	SHEE NO.
NCHES	AND	SANIIA	RY SEWERS	338	113 N-2	WILL	260	123
		8.3	,,			CONTRAC	T NO. 6	0E73
8 OF 8	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. ILLINOIS	FAP 338 (IL R	(TE. 59)	

45 CONNECT TO EXISTING SERVICE PIPE OR PROVIDE PLUG OR END CAP WITH THRUST BLOCK DRY MIX CONCRETE BUILDING SERVICE DETAIL FOR SEWER INVERT DEPTHS TO 12 FEET 10 FOOT MIN. WHEN SERVICE CONNECTION NOT INCLUDED PROVIDE PLUG OR END CAP WITH THRUST BLOCK WHEN SERVICE CONNECTION IS NOT INCLUDED TOP SECTION OF RISER SHALL BE 2'-0" LENGTH CONNECT TO EXISTING SERVICE—PIPE OR PROVIDE PLUG OR END CAP WITH THRUST BLOCK 22 1/2* BEND SUPPORT RISER AGAINST SIDE OF TRENCH DRY MIX CONCRETE

45* BEND

PROVIDE PLUG OR END CAP WITH THRUST BLOCK WHEN SERVICE CONNECTION

BRANCH FITTING

SCALE

SHEET NO.

PROFESSIONAL OF ILL

"LICENSE EXPIRES 11-30-09"