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PLAN NOTE BOOK NO.

DATE

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PROFILE NOTE BOOK NO.

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# STANDARD DESIGN SANITARY MANHOLE

# NOTE A: For vertical separations greater than 2 feet use aropstack.

NOTE B: Manholes may have poured in place, precast, or precast bottoms with preformed invert. The manhole bases shall be precast precise bulkers with precise the intervent. The manhole bases shall be precast with connection opening specifically designed to accommodate the pipe connection stib and gasket. Poured bases shall have a diameter exceeding the manhole outside diameter by a minimum of 18". On poured in place or precast bottoms without inverts the Invert shall be formed by laying the sever through the manhole. The bottom shall then be shaped as shown in the Standard and the upper half of the sever carefully removed. All manholes where the ope size changes, or where there are change in direction, the Invert of the manhole shall be shaped with concrete fill to accomplish the change in elevation, diameter and or direction by easy curves.

### NOTE O:

NOTE C: Method of sealing connection sewer pipe to marhole shall be approved by the engineer and shall be such as to provide a watertight junction eliminating all infiltration around the pipe. Mortar shall not be used.

NOTE D: No manhole steps are to be precast into the manhole.

NOTE E. Precast manhole sections shall be required. Poured in place manholes may be allowed it requested in writing and approved.

NOTE F; All masonry joints in the structure shall be sealed using Permagum Rope Mastic or approved equal. Adjusting rinas and the casting shall be sealed using 2 loops of 3/4" Permagum or mastic.

NOTE 6: Final upward adjustment to grade shall be made using precast concrete adjusting rings. If the required adjustment is lo<sup>o</sup> or greater, additional manhole sections shall be installed below the cone, except where noted. Downward adjustment shall be accomplished by removing existing masorny units and adjusting to final grade as cutlined above.

NOTE H: Entire excavation to be backfilled with brench backfill material, if any edge of excavation is within 2 feet of any paved surface.

NOTE I: For pipes less than 18", 4' diameter manhole shall be used. For pipes 24" to 42", 5' diameter manhole shall be used.









OPTIONAL LIFTERS

### PRECAST FLAT TOP





MANHOLE	DETAIL			
92+28.82	Lt 36'			
1"= 1'-O"				

All #5 re-bars REINFORCING BARS



### GENERAL NOTES

I. The Flat Top may be used in lieu of the tapered tops shown in SANITARY MANHOLE at the option of the contractor or when field conditions prohibit the use of tapered tops.

2. The cost of furnishing and installing the flat top shall be included in the Contract Unit Price for Manholes, as applicable.

Joint configurations and dimensions shall match and fit the riser joint detail.

Lifting devices other than shown may be used upon approval by the Engineer.

All masonry joints in the manhole shall be sealed using Permagum Rope Mastic or approved equal. Adjusting rings and the casting shall be sealed using 2 loops of 3/4" Permagum Rope Mastic.

USER NAME = \$USER\$	DESIGNED - CRH / BGM	REVISED —	STATE OF ILLINOIS	SOUTH SHORES DRIVE OVER SAND CREEK ARM SANITARY SEWER STANDARD DETAILS	F.A.U. RTE. SECTION	CITY TOTAL SHEET SHEETS NO.
	DRAWN - LES JENKINS	REVISED -			7398 09-00905-00-BR	DECATUR 63 20
PLOT SCALE = \$SCALE\$	CHECKED — CRH	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 95687
PLOT DATE == \$DATE\$	DATE - 1/12/12	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT

## NOTES

- I. Construction shall be in accordance with Standard Specifications for water and Sewer Construction in Illinois, Edition 6.
- 2. 8" sewer shall be SDR 21 PVC, ASTM D-3034.
- 3. 30" sewer shall be Class 350 DIP, AWWA CI5I, Mechanical Joint and Push-on Joint as noted.
- Manholes shall be tested for tightnes in accordance with ASTM C-969 or ASTM C-1244, latest edition.
- 5. 8" and 30" sewers shall be tested and televised for acceptance using Method A, Extilitrarion of Air Under Pressure, Deflection for Flexible & Thermoplastic Pipe (8" only), and Method E. Televising as specified in Article 31-1.12 of the Standard Specifications for Water and Sewer Construction in Illinois.