## SUGGESTED CONSTRUCTION SEQUENCE

- 1. Shul down the water main to allow for new construction, See Civil Plans for details,
- 2. Construct braced excavation support system for existing riser shaft removal, existing water main extension, new riser shaft construction and new wall construction.
- 3. Remove the existing riser shaft and existing water main interfering with the new construction.
- 4. Assemble the 24" \$\$ water main horizontal portion and install it into the 42" \$\$ casing pipe. (At Invert Elevation 565.97).
- 5. Construct the concrete foundation shown in Sections C-C and D-D on Sheet 52-03.
- 6. Install the assembled water main and casina, assembled in Item 4, in its final position to bear on the concrete foundation support and the remaining walls of existing riser shaft.
- 7. Connect the new 24" \$\u03c6 water main of Item 4 to the existing 36" \$\u03c6 water main.
- 8. Construct the riser shaft bottom slab and walls.
- 9. Backfill the braced excavation up to the bottom of the new wail footing (at Elev. 570.24) around the new riser shaft, see the backfill section in sheet S2-07.
- 10. Install the braced excavation required for construction of North Abutment of Morgan Street Bridge (S.N. 016-1709).
- 11. Remove the wood lagging between the piles interfering with North Abutment and wall construction on the west half to allow construction of the North Abutment of Morgan Street Bridge (S.N. 016-1709).
- 12. Construct the drilled shafts for Rataining Wall 5 (S.N. 016-1724) and North Abutment (S.N. 016-1709).
- 13. Construct the new retaining wall (S.N. 016-1724) between sta. 5248+93.99 and sta, 5248+67.58.
- 14. Construct the North Abutment of Morgan Street Bridge over I-290 (S.N. 016-1709).
- 15. Re-install the removed timber lagging and backfill behind the North Abutment and wall up to the bottom of the proposed sub-base material.
- 16. Install the new Soil Retention System No.2 shown on Sheet S2-07.
- 17. Backfill the riser shaft braced excavation portion existing to the north of the new wall to Elevation 584,94 (I' below the bottom of the new water main running thru the too of the west wall of the riser shaft).
- 18. Remove the existing retaining wall to the limits shown on Sheet S2-05.
- 19. Cut braced excavation piles, walers and struts to the south of the proposed Retaining Wall 5 (S.N. 016-1724) and backfill in front of new wall as required.
- 20, Excavate as required, outside the limits of the braced excavation on Margan Street, for the installation of the connection to the 30"  $\phi$  water main on Morgan Street and construct thrust restrainers.
- 21. Install the remaining portion of the 24" Ø water main inside the riser shaft and the connection portion to the 30" Ø water main on Morgan Street.
- 22. Construct the top slab of the riser shaft.
- 23. Construct the manhole and Chicago standard frame and lid,
- 24. Backfill to the final elevation to allow for the construction of a temporary pavement and subbase material. (See civil plans for details).
- 25. Cut off and remove the braced excavation support system to a depth which will not interfere with new construction, or a minimum of 2' below finished grade.
- 26. Construct pavement and curb and gutter within limits of construction. See pavement removal and construction plans.

- I. When Contractor's means and methods include initiating excavation for shafts at elevations higher than the final top of shaft elevation, the costs for excavaling, disposing of excavation, providing casing and backfilling of drilled shafts or other appurtenant work activities in the areas between the elevation where excavation is initiated and the proposed elevation of the top of shaft shall not be paid for separately but shall be included in the cost of Drilled Shaft in Soil.
- 2. The Suggested Construction Sequence may enable the Contractor to construct the Braced Excavation Support System for existing riser shaft removal, existing water main connection removal and new riser shaft and new retaining wall construction.

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## A Entire sheet revised

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