

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2798	03-00193-00-FP	COOK	51	2
F.H.W.A. REG.	ILLINOIS	PROJECT	M-9003(488)	

CONTRACT NO. 63445

### STATE STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-05 CURB RAMPS FOR SIDEWALK
- 442201-03 CLASS C AND D PATCHES
- 604001-03 FRAMES & LIDS-TYPE 1
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701501-05 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED
- 701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNT DETAILS
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 814001-02 HANDHOLES
- 814006-02 DOUBLE HANDHOLES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
- 862001-01 UPS
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 876001-01 PEDESTRIAN PUSH BUTTON POST
- 877001-04 STEEL MAST ARM ASSEMBLY & POLE 16' THROUGH 55'
- 878001-08 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNT SIGNALS & FLASHING BEACON INSTALLATION
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

### MWRDGC NOTES

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
LOCAL SEWER SYSTEMS SECTION

#### TYPICAL GENERAL NOTES

- The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of any work (call 708/588-4055).
- Elevation datum is U.S.G.S.  
Conversion equation is N/A
- All floor drains shall discharge to the sanitary sewer system. (NOT APPLICABLE)
- All downspouts and footing drains shall discharge to the storm sewer system. (NOT APPLICABLE)
- All sanitary sewer pipe materials and joints (and storm sewer pipe materials and joints in a combined sewer area) shall conform to:

<b>Pipe Material Spec.</b>	<b>Joint Spec.</b>
----------------------------	--------------------

<b>Vitrified Clay Pipe</b>	
VCP (C-700)	C-425
VCP (No-Bel)(C-700)	
Joint	C-425
Collar	D-1784

<b>Concrete Pipe (C-14)</b>	C-443
RCP (C-76)	C-443
ACP (C-428)	D-1869

<b>ABS Sewer Pipe</b>	
Solid Wall 6" dia. SDR 23.5	
ABS D-2751	D-2751

<b>ABS Composite/Truss Pipe</b>	
8" - 15" dia.	
ABS D-2680	D-2680

<b>PVC Gravity Sewer Pipe</b>	
6" - 15" dia. SDR 26	
D-2241	D-3139
AWWA-C-900	D-3139

18" - 27" dia. F/dy=46	
F-679	D-3212 or D-2855

CISP A-74	C-564
DIP A-21.51	A-21.11

(Note: The District has approved less common pipe materials on a qualified basis in addition to those above. Please contact the District if considering using pipe not listed above.)

- All sanitary sewer construction (and storm sewer construction in combined sewer areas), requires stone bedding with stone 1/4" to 1" in size, with minimum bedding thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches nor more than eight (8) inches. Materials shall be CA-11 or CA-13 and shall be extended at least 12" above the top of the pipe when using PVC.
- "Band-Seal" or similar flexible-type couplings shall be used in the connection of sewer pipe of dissimilar materials.
- When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, one of the following methods shall be used:
  - Circular saw-cut of sewer main by proper tools ("Shower-Tap" machine or similar) and proper installation of hub-wye saddle or hub-tee saddle.
  - Remove an entire section of pipe (breaking only the top of one bell) and replace with a wye or tee branch section.
  - With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "Band-Seal" or similar couplings to hold it firmly in place.
- Wherever a sanitary/combined sewer crosses under a watermain, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18 inches. Furthermore, a minimum horizontal distance of 10 feet between sanitary/combined sewers and watermain shall be maintained unless: the sewer is laid in a separate trench, keeping a minimum 18" vertical separation; or the sewer is laid in the same trench with a watermain located at the opposite side on a bench of undisturbed earth, keeping a minimum 18" vertical separation. If either the vertical or horizontal distances described above cannot be maintained or the sewer crosses above the watermain, the sewer shall be constructed to watermain standards.
- All existing septic systems shall be abandoned. Abandoned tanks shall be filled with granular material or removed.
- All sanitary manholes, and also storm manholes in combined sewer areas, shall have a minimum inside diameter of 48 inches, and shall be cast-in-place or pre-cast reinforced concrete. Resilient connectors, conforming to ASTM C-923, shall be used between manhole and pipe(s) for all sanitary and combined sewer structures.

### GENERAL CONSTRUCTION NOTES PAVING AND STORM SEWERS

#### SPECIFICATIONS

THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

#### CARE IN EXCAVATION

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

#### NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITY, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

#### TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

#### PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER REMOVAL, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

#### SUPERINTENDENCE

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

#### SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED. SAWCUTTING FOR PATCHES WILL BE INCLUDED IN THE COST OF THE PATCHING ITEM.

#### PROJECT SAFETY

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

### SPECIAL PROJECT NOTES

- DRIVEWAY REPAIR BETWEEN THE CURB AND THE PROPERTY LINE SHALL BE COMPLETED PER THE TOWN ORDINANCE. THE INSTALLATION IS DETAILED IN THESE PLANS AND IN THE SPECIAL PROVISIONS.
- ALL PATCHING WILL BE MARKED OUT AND CONSTRUCTED AFTER MILLING. A PROOF ROLL WILL BE REQUIRED.
- ALL SAWCUTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS FOR WHICH THE WORK APPLIES.
- ALL EXISTING FRAMES AND LIDS THAT ARE TO BE REPLACED (AS DIRECTED BY THE ENGINEER), SHALL BE SALVAGED TO THE CONTRACTOR.
- ALL METERS, VALVES, AND BUFFALO BOXES WITHIN SIDEWALK AND DRIVEWAY REMOVAL LIMITS SHALL BE ADJUSTED.
- ALL AT&T MANHOLES TO BE ADJUSTED (BY OTHERS).
- MEET EXISTING CURB AND FLOW LINE ELEVATIONS AT SIDE STREET APPROACHES.
- ALL CURBLINE INLETS AND CATCH BASINS ON THIS PROJECT FLOW TO A COMBINED SEWER. ALL WORK SHALL CONFORM TO ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (M.W.R.D.) STANDARDS. THE FINAL OUT FLOWING PIPE FROM ANY INLET OR CATCH BASIN STRUCTURE THAT WILL FLOW TO THE COMBINED SEWER SHALL BE TRAPPED AS DETAILED ON SHEET 5. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE REPLACEMENT OF THE PIPE.
- ABANDONED STORM SEWER PIPE SHALL BE PLUGGED WITH CONCRETE MORTAR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE REPLACEMENT OF THE PIPE.
- METHOD 1, AS DESCRIBED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS SHALL BE USED TO COMPACT TRENCHES FOR ALL STORM SEWER PIPE INSTALLATION.
- PROPOSED PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH, SHALL BE MEASURED IN PLACE AT THE TIME OF CONSTRUCTION. DURING CONSTRUCTION OF THE HOT-MIX SURFACE REMOVAL, VARIABLE DEPTH, PAY ITEM, A SMALL AMOUNT OF PCC BASE COURSE IS EXPECTED TO BE ENCOUNTERED. (SEE CORE INFORMATION ON SHEET 4). 3,066 SY HAS BEEN ESTIMATED FOR THIS WORK FOR BIDDING. EXACT AREA WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

PROJECT

**TOWN OF CICERO, ILLINOIS  
CENTRAL AVENUE RESURFACING  
SECTION 03-00193-00-FP**

#### REVISIONS

NO.	BY	DATE	DESCRIPTION
1	AMS	1/22/10	PER IDOT REVIEW
2	AMS	2/8/10	PER IDOT REVIEW
3	AMS	3/03/10	PER IDOT REVIEW

**STATE STANDARDS  
GENERAL NOTES  
MWRDGC NOTES  
SPECIAL PROJECT NOTES**

PROJECT NO. 05043	SCALE NONE	SHEET 2
DRAWN/DESIGNED JFP-JEP/THK	DATE DEC., 2009	OF 51
CHECKED/APPROVED JLC/THK	FIELD BOOK NO. FILE	SHEETS



**Frank Novotny & Associates, Inc.**

825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132  
Illinois Professional Design Firm No. 184-000928