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# GENERAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED PER COMED UNDERGROUND DISTRIBUTION CONSTRUCTION STANDARDS BOOK AND UNDERGROUND DISTRIBUTION MATERIAL STANDARDS BOOK.
- 2. CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING PIPING, UTILITIES. AND PROTECTIONS EXTENDED HAND, OTHERS, EQUIPMENT AND STRUCTURES WHICH COULD BE DAMAGED BY CONSTRUCTION ACTIVITIES. REPAIR OF DAMAGES SHALL BE AT THE CONTRACTOR'S EXPENSE.
- MATERIAL FROM REMOVALS, NOT APPROVED FOR STRUCTURAL FILL OR BACK FILL AND OTHER CONSTRUCTION DEBRIS, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISCARDED.

#### REFERENCED DRAWINGS

- t. STRUCTURAL INFORMATION FROM EXISTING DRAWINGS:
  - TITLE: STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY, F.A. RT, 131 SEC.1-B-2 & SEC.1-F-2 COOK CO, PROJ, UI-261 (41).
  - BY: STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL ALD HIGHWAY

- 2. CADD BACKGROUNDS AND STRUCTURAL INFORMATION FROM PROPOSED
  - HITLE: MORGAN STREET BRIDGE AT 1-290/CONGRESS PARKWAY CIRCLE INTERCHANGE SECTION 2013-007R RECONSTRUCTION. BRIDGE REPLACEMENT, LIGHTING, TRAFFIC SIGNALS, AND WATERMAIN COOK COUNTY C-91-227-13
  - BY: HBM ENGINEERING GROUP, ELC. 4415 W. HARRISON ST. SUITE 231 HILLSIDE, IL 60162

DATED: 5/14/2013

#### STRUCTURAL STEEL NOTES:

- ALL STRUCTURAL STEEL, EXCEPT ANCHOR BOLTS, 3, IDENTIFIED AS "BY IDUT CONTRACTOR' AND DETAILED ON SHEETS 924 THROUGH 926, WILL BE SUPPLIED BY THE COMED CONTRACTOR. STRUCTURAL STEEL ITEMS IDENTIFIED AS 'BY IDOT CONTRACTOR', WILL BE PAID FOR AS 'ERECTING STRUCTURAL STEEL".
- ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC MANUAL OF STEEL
- MATERIAL PROPERTIES FOR STRUCTURAL STEEL FURNISHED TO CONTRACTOR BY COMED MUST MEET THE FOLLOWING CRITERIA:

ASTM A992 GR 50 b. CHANNELS & ANGLES ASTM A36 ASTM A36 ASTM F1554 GR 36 A THREAMEN ROMS ASTM ASON GR R ASTM A325-N U.N.D. F. BOLTS

- ALL BOLTED CONNECTIONS SHALL CONTAIN A MIN. OF 2 BOLTS IN VERT. ROW. BOLTS IN CONNECTIONS SHALL BE TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC REQUIREMENTS. ALL HOLES FOR CONNECTIONS SHALL BE STANDARD SIZE HOLES.
- 4. ALL WELDS SHALL CONFORM TO AVS DLI 'STRUCTURAL WELDING CODE -STEEL' WITH E-70XX ELECTRODES, UNLESS NOTED. WELDING SHALL ONLY BE DONE BY AVS CERTIFIED WELDERS.
- UNLESS OTHERWISE SHOWN, PROVIDE W FILLET WELDS. FULL LENGTH, ON BOTH SIDES OF MEMBER.
- BURNING OF HOLES AND CUTS IN THE STRUCTURAL STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.
- 7. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
- 8. W-SHAPES SHOWN ABOVE MAY BE SUBSTITUTED FOR STRONGER MEMBERS WITH APPROVAL OF ENGINEER OF RECORD

### PILE NOTES:

- 1. SEE SPECIAL PROVISIONS FOR MICRO-PILES.
- CONFORM TO THE GENERAL NOTES, CONSTRUCTION SEQUENCE, PROCEDURES AND ALL OTHER REQUIREMENTS OF THIS DESIGN SUBMITTAL UNLESS OTHERWISE APPROVED BY ENGINEER.
- REPORT CHANGES IN THE CONTRACT DOCUMENTS AND CHANGES IN SUBSURFACE CONDITIONS SO THAT THE EFFECTS ON THE MICROPILES CAN BE
- THE MICROPILE BOND ZONE WAS DESIGNED FOR AN ULTIMATE BOND STRESS OF 30 PSI AND A SAFETY FACTOR OF 2.5. PERFORM PRESSURE GROUTING IN ACCORDANCE WITH EHWA RECOMMENDATIONS FOR TYPE "B" MICROPILES.
- MICROPILES WERE DESIGNED FOR 40 KIPS COMPRESSION, NO MICROPILE LOAD TESTING IS SPECIFIED FOR THIS PROJECT.
- 6. CONSTRUCTION OVERSIGHT SHALL BE PROVIDED BY QUALIFIED OTHERS.
- 7. STEEL CASING SHALL BE API NBO 7.0-IN X 0.231" WALL FLUSH-THREAD PIPE
- 8. MICROPILE CENTER BAR AND SLAB REINFORCING SHALL BE GR. 60 DEFORMED BAR WITH CENTRALIZERS EVERY 5-FT
- MICROPILE GROUT SHALL BE A NEAT-CEMENT MIX WITH A MINIMUM 28-DAY UNCONFINED COMPRESSIVE STRENGTH OF 4000 PSI.
- 10. THIS DESIGN IS VALID ONLY FOR THIS SITE.
- 11. ENGINEER IS NOT RESPONSIBLE FOR THE HANDLING, DISPOSAL, OR TREATMENT OF CONTAMINATED GROUND WATER.
- 12. OTHERS ARE RESPONSIBLE FOR FIELD LOCATING ALL NEARBY UTILITIES AND ADJACENT BURIED STRUCTURES. CONFLICTING UTILITIES MAY REQUIRE REDESIGN, AT THE DISCRETION OF ENGINEER. LIKEWISE, IT IS THE RESPONSIBILITY OF OTHERS TO OBTAIN ANY NECESSARY PERMITS OR
- 13. ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL, QUALITY ASSURANCE, CHANCED CONDITIONS OR PROBLEMS RESULTING FROM IMPROPER CONSTRUCTION TECHNIQUES.
- 14. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.
- 15. ENGINEER IS NOT RESPONSIBLE FOR LAYOUT, SURVEYING, OR ENVIRONMENTAL CONSIDERATIONS AT THIS SITE

### BILL OF MATERIALS

ITEM	UNIT	TOTAL	
ERECTING STRUCTURAL STEEL	L SUM	1	BY IDOT CONTRACTOR
CONCRETE STRUCTURES	CU YD	15	BY IDOT CONTRACTOR
CONCRETE REMOVAL	CU YD	15	BY IDOT CONTRACTOR
STRUCTURE EXCAVATION	CU YD	4	8Y IDOT CONTRACTOR
MICRO-PILES	EACH	4	BY IDOT CONTRACTOR
ANCHOR BOLTS, }"	EACH	16	BY IDOT CONTRACTOR
REINFORCEMENT BARS	LB	2060	BY IDOT CONTRACTOR
REMOVAL OF EXISTING STRUCTURES NO. 2	L SUM	1	BY IDOT CONTRACTOR
PROTECTIVE SHIELD, SPECIAL	SQ YD	270	BY IDOT CONTRACTOR
			1
			+

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## REINFORCEMENT (IDOT CONTRACTOR)

BAR	NO.	SIZE	LENGTH	SHAPE
w100	20	#8	19'-6"	
t100	40	#8	9'-6"	



NOTE:

NOTES LISTED HERE APPLY FOR COMED/HBK SHEETS 92A (C1) THROUGH 92G (C7)

P.D. P.C. DATE MORGAN ST. BRIDGE REBUILD CHICAGO, IS, GENERAL NOTES 13-503 AS NOTED JAH CAD FRE NO SCALE PROJECT DEDGE - 6711/291 EXHASION SATE NY MODIFICATION OR ADDITION TO TH HBK ENGINEERING, LLC DWG. NO ComEd

ASSOCIATES

BRIERLEY

hbk

PROJECT NO. 13-503

SHEET 92A OF 317