

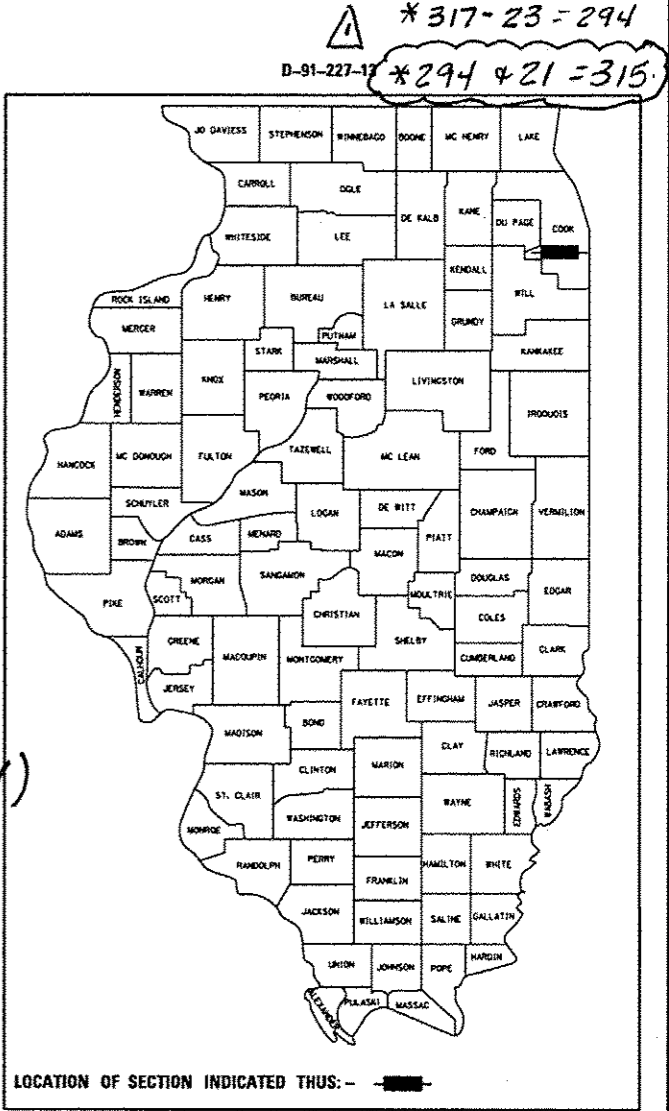
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	1
ILLINOIS CONTRACT NO. 60W25				

FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 90/94  
MORGAN STREET BRIDGE AT  
I-290/CONGRESS PARKWAY (CIRCLE INTERCHANGE)  
SECTION 2013-007R  
RECONSTRUCTION, BRIDGE REPLACEMENT,  
LIGHTING, TRAFFIC SIGNALS,  
AND WATERMAIN PROJECT: NHPP-0005(941)  
COOK COUNTY  
C-91-227-13



**AECOM**  
**HBM**  
**CEM**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 5/9/13 2013

*John Frazee*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 28, 2013  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

June 28, 2013  
*Omer Osman, P.E.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

DESIGN DESIGNATIONS:

MORGAN STREET	4,000(2040)	LOCAL STREET (URBAN)	30 /30 MPH
I-290 EXIT RAMP	5,000(2040)	INTERSTATE	30 /30 MPH
WB I-290	92,000(2040)	INTERSTATE	45 /50 MPH
EB I-290	105,000(2040)	INTERSTATE	45 /50 MPH

POSTED /DESIGN SPEEDS:

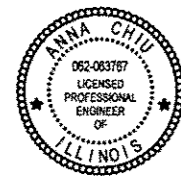
30 /30 MPH
30 /30 MPH
45 /50 MPH
45 /50 MPH



*Danny B. Manojlovski* 5/14/13  
DANNY B. MANOJLOVSKI DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 1-86, 90-91, 93-115  
267-317



*Moussa A. Issa* 5/14/13  
MOUSSA A. ISSA DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 116-121, 145-232



*Anna Chiu* 5/14/13  
ANNA CHIU DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 1-86, 90-91, 93-115  
267-317



*William D. Stermer* 5/14/13  
WILLIAM D. STERMER DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 122-130, 141-144



*Christopher L. Krueger* 5/14/13  
CHRISTOPHER L. KRUEGER DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 131-140



*Chad B. Laucamp* 5/14/13  
CHAD B. LAUCAMP DATE  
LICENSE EXPIRES 11/30/2013  
SHEET RANGE 87-89

NPDES PERMIT INFORMATION	
NPDES Disturbed	
Area =	1.18 Acres
Approximate Location of Roadway is :	
Longitude	87° 39' 06.49" W
Latitude	41° 52' 32.05" N

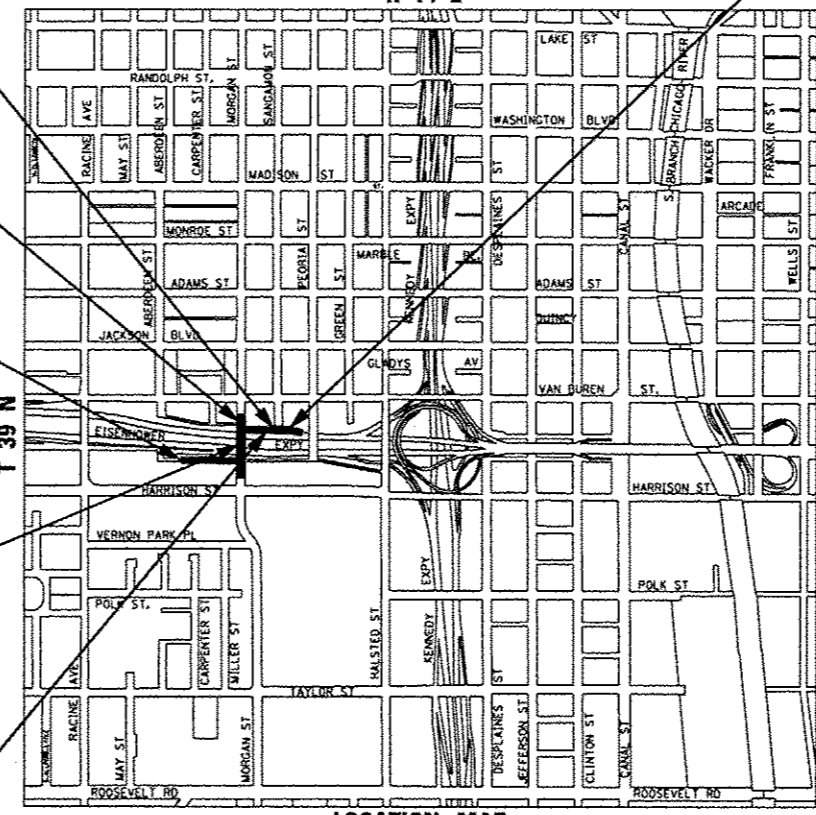
MORGAN STREET EXIT RAMP:  
STA 1002 + 45.00 STA 1006 + 25.00

MORGAN STREET: STA 3601 + 95.00  
TO STA 3606 + 60.00

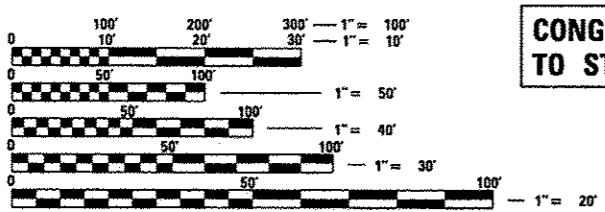
CONGRESS PARKWAY: STA 3305 + 05.00  
TO STA 3306 + 83.81

MORGAN STREET BRIDGE  
SN 016-1709  
STA 3603 + 28.39 TO  
STA 3605 + 76.06

RETAINING WALL  
SN 016-1724  
STA 5248 + 93.99 TO  
STA 5248 + 63.83



LOCATION MAP  
THIS PROJECT IS LOCATED IN THE  
CITY OF CHICAGO  
GROSS LENGTH = 1023.81 FT. (0.194 MILES)  
NET LENGTH = 1023.81 FT. (0.194 MILES)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

PROJECT ENGINEER: ADDIS ABEBAW  
PROJECT MANAGER: BRIAN KUTTAB

CONTRACT NO. 60W25

DISTRICT 1 DESIGN /CONSULTANT SERVICES: BRIAN KUTTAB, P.E. (847)705-4431 SCHAUMBURG, ILLINOIS

Rev. 7-19-13

Rex

PLOT DATE: 5/7/2013

### INDEX OF SHEETS

1	COVER SHEET
2-3	INDEX OF DRAWINGS, STANDARDS, AND COMMITMENTS
4	GENERAL NOTES
5-25	SUMMARY OF QUANTITIES
26-27	(OMITTED SHEETS)
28-30	TYPICAL SECTIONS
31-33	SCHEDULE OF QUANTITIES
34-37	DRAINAGE SCHEDULES
38-41	ALIGNMENT, TIES, AND BENCHMARKS
42	PLAN AND PROFILE - MORGAN STREET
43	PLAN AND PROFILE - CONGRESS PARKWAY / UIC DRIVEWAY
44	PLAN AND PROFILE - MORGAN STREET EXIT RAMP AND TILDEN STREET
45-46	1-290 REMOVAL PLAN AND ROADWAY PLAN
47-48	DETOUR PLANS
49	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - GENERAL NOTES AND LEGEND
50-51A	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGING NARRATIVE
52	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - SCHEDULE
53-55	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - TYPICAL SECTIONS
56-62	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 1
63-69	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 2
70-76	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 3 (INCLUDES SHY NO 71A)
76A-76G	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - STAGE 4
77-78	EROSION CONTROL SCHEDULES
79-81	EROSION AND SEDIMENT CONTROL PLAN
82	PERMANENT EROSION CONTROL PLAN
83	DRAINAGE AND UTILITY PLAN AND PROFILE - MORGAN STREET
84	DRAINAGE AND UTILITY PLAN AND PROFILE - CONGRESS PARKWAY / UIC DRIVEWAY
85	DRAINAGE AND UTILITY PLAN AND PROFILE - MORGAN STREET EXIT RAMP AND TILDEN STREET
86	1-290 DRAINAGE AND UTILITY PLAN
87-89	WATERMAIN REPLACEMENT PLAN AND DETAILS
90	ABANDONED CTA WATER TUNNEL BULKHEADING PLAN
91	ABANDONED CTA WATER TUNNEL BULKHEADING DETAILS
92	UTILITY LOCATION PLANS
92A-92G	COMED MORGAN STREET CONDUIT SUPPORT PLANS
92H	BRIDGE DECK CROSS SECTION (FOR INFORMATION ONLY)
92I	CONDUIT SUPPORT AND CONDUIT LAYOUT (FOR INFORMATION ONLY)
92J	CONDUIT SUPPORT HANGER DETAIL AND BILL OF MATERIALS FOR THE CONDUIT RUN BETWEEN GIRDERS 5 & 6 AND 7 & 8 (FOR INFORMATION ONLY)
93-95A	INTERSECTION AND GRADING DETAILS
96-98	CURB RAMP DETAILS
99-103	CITY OF CHICAGO ADA STANDARDS
104	PAVEMENT MARKING SCHEDULE
105	SIGNING SCHEDULE
106-110	PAVEMENT MARKING PLANS
111-111B	SIGNING PLANS
111C	PAVEMENT MARKING DETAILS
111D	SIGNING DETAILS
112-113	OVERHEAD SIGN STRUCTURES SIGN PANEL PLACEMENT
114-115A	OVERHEAD SIGN PANEL DETAILS
116-121	BRIDGE MOUNT SIGN STRUCTURES GENERAL PLANS AND DETAILS
122-130B	LIGHTING PLANS AND DETAILS
131-140	TRAFFIC SIGNAL PLANS AND DETAILS
141-144	ITS PLANS AND DETAILS
145-195	MORGAN STREET BRIDGE PLANS (SN 016-1709) (INCLUDES SHY NO 148A AND 165A)
196-207	RETAINING WALL PLANS (SN 016-1724) AND RISER SHAFT
208-224	(OMITTED SHEETS)
225-232	(OMITTED SHEETS)
233-261C	DISTRICT 1 DETAILS
262-266	IDOT TRAFFIC SYSTEMS CENTER STANDARD DRAWINGS
267-269F	ROADWAY DETAILS
270-271	(OMITTED SHEETS)
272-272A	DRAINAGE DETAILS
273-277	MORGAN STREET CROSS SECTION
278-291	WB 1-290 / EXIT RAMP TO MORGAN STREET CROSS SECTION
292-305	EB 1-290 / CONGRESS PARKWAY CROSS SECTION
306-317	(OMITTED SHEETS)

### HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420301-04	EXIT RAMP TERMINAL
420701-02	PAVEMENT FABRIC
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424026-01	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442101-07	CLASS B PATCHES
483001-04	PCC SHOULDER
515001-03	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN TYPE A
602301-03	INLET - TYPE A
602401-03	MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604071-04	FRAME AND GRATE TYPE 20
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
666001-01	RIGHT OF WAY MARKERS
701101-03	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701401-07	LANE CLOSURE, FREEWAY / EXPRESSWAY
701406-07	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701421-05	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701422-05	LANE CLOSURE, MULTILANE, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701423-06	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701446-04	TWO-LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-01	RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES

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D160W25-sht-Commit-01	DESIGNED - AFC	REVISED - 7/19/2013
USER NAME: jgibson	DRAWN - AFC	REVISED -
PLOT SCALE: 50.0000 1/16"	CHECKED - DBM	REVISED -
PLOT DATE: 7/16/2013	DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS, STANDARDS, AND COMMITMENTS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	2
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

**DISTRICT 1 STANDARDS**

- BD-07 DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
- BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENT FOR MILLING
- BD-09 CITY OF CHICAGO DRAINAGE DETAILS
- BD-17 CITY OF CHICAGO DETAILS FOR P.C. CONCRETE DRIVEWAY, ALLEY RETURN AND SIDEWALK
- BD-24 CURB OR CURB GUTTER REMOVAL AND REPLACEMENT
- BD-47 CITY OF CHICAGO CATCH BASIN, INLET AND MANHOLE DETAILS
- BD-48 PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER
- BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- BE-301 LIGHT POLE FOUNDATION 40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
- BE-322 24" (609.6 mm) DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
- BE-400 ALUMINUM LIGHT POLE 47' -6" (14.478) MOUNTING HEIGHT
- BE-410 DAVIT LIGHT POLE 47' -6" (14.478 m) MOUNTING HEIGHT
- BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY
- BE-702 MISC. ELECTRICAL DETAILS SHEET A
- BE-703 MISCELLANEOUS ELECTRICAL DETAILS, SHEET B J BOX EMBEDDED IN BARRIER WALL -
- BE-705 COMMUNICATIONS VAULT, COMPOSITE CONCRETE
- BE-800 TEMPORARY LIGHT POLE DETAILS
- BE-801 TEMPORARY AERIAL CABLE INSTALLATION
- BE-902 PIER /ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS
- TC-08 FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
- TC-09 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDES ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-12 MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (2 SHEETS)
- TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
- TC-18 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
- TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAY
- TC-24 CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS (3 SHEETS)
- TC-27 MILE POST MARKERS - GORE SIGNS MAJOR GUIDE SIGN LAYOUT - ARROWS
- TS-02 DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS

**IDOT TRAFFIC SYSTEMS CENTER STANDARDS**

- TY-ITSC-418#1 EXISTING ROUND LOOP INSTALLATION
- TY-ITSC-418#2 EXISTING ROUND LOOP INSTALLATION TYPICALS
- TY-ITSC-418#3 RECTANGULAR INDUCTION LOOP TYPICAL
- TY-ITSC-418#4 LOOP, CONDUIT & DUCT INSTALLATION DETAILS
- TY-ITSC-418#6 NEW CONSTRUCTION ROUND INDUCTION LOOP TYPICAL INSTALLATION

**COMMITMENTS**

1. VIBRATION MONITORING WILL BE PERFORMED FOR PROPERTIES ADJACENT TO THE PROJECT. (SEE SPECIAL PROVISIONS FOR DETAILS)
2. AT LEAST TWO OF THE THREE FOLLOWING CHICAGO TRANSIT AUTHORITY (CTA) STATIONS SHALL REMAIN OPEN DURING CONSTRUCTION OF THE MORGAN STREET BRIDGE:
  - A. MORGAN STREET
  - B. PEORIA STREET
  - C. HALSTED STREET

FILE PATH: \\11580034-pur1\aescom\line\local\PROJECTS\Documents\11580034-001\Roadway\Drawings\60W25-Contract\0162425-sht-Gennote-02

<p style="font-size: 8px; margin-top: 5px;">                 303 EAST WACKER DRIVE, SUITE 1400                  CHICAGO, IL 60601-3276                  PHONE: (312) 312-1700 FAX: (312) 312-6800             </p>	0162425-sht-Gennote-02 USER NAME: e.chiuo	DESIGNED - AFC DRAWN - AFC	REVISED -  7/19/2013 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF DRAWINGS, STANDARDS, AND COMMITMENTS				F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 3
	PLOT SCALE: 50.0000 1" = 100'	CHECKED - DBM	REVISED -		REVISED -	SCALE:      SHEET 2    OF 2    SHEETS    STA.                      TO STA.				CONTRACT NO. 60W25			
	PLOT DATE: 7/16/2013	DATE: 6/17/2013	REVISED -		REVISED -	ILLINOIS FED. AID PROJECT							

**GENERAL NOTES**

- SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
- A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY PLACEMENT OR RELOCATION OF MAINTENANCE OF TRAFFIC DEVICES, CONTACT ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) DISTRICT 1 BUREAU OF TRAFFIC.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
- CONTRACTOR TO PROVIDE 10 FOOT TRANSITIONS TO MEET EXISTING CURB AND GUTTER AND BARRIER WALL.
- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- CONFLICTS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR MUST COORDINATE WORK WITH RAILROADS AND UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PERFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.
- THE CONTRACTOR MUST CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT FACILITY CABLES.
- CHICAGO TRANSIT AUTHORITY (CTA) REPRESENTATIVE WILL BE MR. DAVID HEARD, MANAGER CONSTRUCTION MANAGEMENT OVERSITE. CONTRACTOR SHALL NOTIFY CTA REPRESENTATIVE 72 HOURS IN ADVANCE OF THE TIME HE INTENDS TO ENTER UPON THE CTA RIGHT-OF-WAY FOR THE PERFORMANCE OF ANY WORK.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO CHICAGO TRANSIT AUTHORITY (CTA) TRACK ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY THE MINIMUM HORIZONTAL CLEARANCE DIMENSIONS FROM CENTERLINE OF TRACK TO THE FACE OF THE PROPOSED PIER PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. THE ALLOWABLE HORIZONTAL PERMANENT CLEARANCE SHALL BE 7'-2" MINIMUM FROM CENTERLINE OF TRACK TO EDGE OF PIER, AND THE ALLOWABLE HORIZONTAL TEMPORARY CLEARANCE DURING CONSTRUCTION SHALL BE 6'-1" FROM CENTERLINE OF TRACK TO EDGE OF PIER. A MINIMUM VERTICAL CLEARANCE OF 14'-6" OF THE HIGH RUNNING RAIL OF THE CTA TRACK SHALL BE PROVIDED AT ALL TIMES.
- COMMONWEALTH EDISON (COMED) UTILIZES TWO EXISTING DUCT PACKAGES NEAR THE CENTERLINE OF MORGAN STREET AND SUPPORTED ACROSS THE EISENHOWER (I-290) BY THE MORGAN STREET BRIDGE STRUCTURE. THE CONDUITS WILL BE REMOVED AND REPLACED AS PART OF THE BRIDGE RECONSTRUCTION. THE CABLES WILL REMAIN LIVE THROUGHOUT CONSTRUCTION AND WILL BE TEMPORARILY SUPPORTED DURING EXISTING BRIDGE DEMOLITION AND PROPOSED BRIDGE CONSTRUCTION. TEMPORARY STRUCTURES ARE INCLUDED WITHIN THE WORK OF THIS CONTRACT. COORDINATION WITH COMED IS IMPERITIVE.
- THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER. SEE DISTRICT 1 DETAILS FOR BENCHING DETAIL.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH, WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

**GENERAL NOTES (CONTINUED)**

- ALL ROADWAY WIDTHS AND RADII SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- RIM ELEVATIONS AND OFFSETS TO CATCH BASINS, INLETS, AND MANHOLES ARE TO THE EDGE OF PAVEMENT OR TO THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- WHEN THE PAVEMENT CONSTRUCTED IS PORTLAND CEMENT CONCRETE BASE COURSE OR PORTLAND CEMENT CONCRETE PAVEMENT, IT SHALL NOT BE OPENED TO TRAFFIC, INCLUDING CONSTRUCTION TRAFFIC, UNTIL AFTER THE SPECIFIED CURING PERIOD AS DEFINED IN ARTICLE 701.17(c) OF THE STANDARD SPECIFICATIONS AND UNTIL THE JOINTS HAVE BEEN SEALED.
- PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH ARTICLE 420.18 OF THE STANDARD SPECIFICATIONS TO CONCRETE MEDIAN SURFACES AND BARRIER, APPROACH AND SHOULDER SLABS, AND ALL EXPOSED SURFACES OF CURBS AND GUTTERS.
- THE ENTIRE AREA WHICH IS TO RECEIVE 'BITUMINOUS MATERIALS (PRIME COAT)' SHALL BE SWEEPED CLEAN BEFORE THE MATERIAL APPLICATION. SWEEPINGS SHALL NOT BE DEPOSITED IN THE GUTTER OR ON THE CURB, PARKWAY, OR SIDEWALK, BUT SHALL BE PICKED UP AND DISPOSED OF PROPERLY BEYOND THE LIMITS OF THE PROJECT ON THE SAME DAY THAT SWEEPING IS DONE. THIS WORK SHALL BE INCLUDED IN THE COST OF BITUMINOUS MATERIALS (PRIME COAT). NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ALL REINFORCEMENT BARS, DOWEL BARS, AND TIE BARS SHOULD BE EPOXY COATED UNLESS OTHERWISE NOTED IN THE PLANS.
- IF ANY UNUSUAL MATERIALS ARE UNCOVERED OR THERE ARE SUSPICIONS OF EXISTING UNDERGROUND STORAGE TANKS, THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
- DRAINAGE GRADES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS.
- CONNECTING EXISTING STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM SHALL BE CONSIDERED INCLUDED IN THE PROPOSED DRAINAGE ITEMS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON JOB SITE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PLANT MATERIAL.
- REMOVAL OF EXISTING BICYCLE RACKS, CHICAGO TRANSIT AUTHORITY (CTA) APPURTENANCES, AND NEWSPAPER STANDS SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES NO. 1. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE COURSE AND BINDER COURSE IS 112 LB / 50 YD / IN.
- AN ESTIMATED QUANTITY OF 250 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THIS CONTRACT FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND SIDE ROADS THROUGH CONSTRUCTION OPERATIONS DURING THIS CONTRACT.
- THE QUANTITY FOR BITUMINOUS MATERIALS (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.0004 TON/50 YD.
- THE QUANTITY FOR AGGREGATE (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.002 TON/50 YD.
- THE CONTRACTOR MUST MAINTAIN ACCESS TO DRIVEWAY ENTRANCE AT 933 W. VAN BUREN STREET PARKING GARAGE NORTH OF THE MORGAN STREET AND TILDEN STREET INTERSECTION AT ALL TIMES.

**CITY OF CHICAGO - GENERAL NOTES (CONTINUED)**

- CURB AND GUTTER CONSTRUCTION SHALL PROVIDE A MINIMUM CURB HEIGHT OF 3 INCHES AND MAXIMUM OF 9 INCHES.
- TEMPORARY HOT-MIX ASPHALT RAMPS MUST BE CONSTRUCTED AROUND ALL UTILITY STRUCTURES REGARDLESS OF SHAPE WHEN THE ROAD IS OPEN TO TRAFFIC PRIOR TO PLACEMENT OF BINDER AND/OR SURFACE COURSE. THE RAMPS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE TEMPORARY HMA RAMP DETAILS AND REMOVED PRIOR TO PLACEMENT OF BINDER AND/OR SURFACE COURSE.
- THE LOCATIONS AND ELEVATIONS OF EXISTING SEWERS AND SEWER STRUCTURES SHOWN ON THE PLANS AND PROFILES HAVE BEEN OBTAINED FROM DRAWINGS AND ATLAS AND THE INFORMATION IS NOT GUARANTEED. THE RESIDENT ENGINEER AND THE CONTRACTOR SHALL FIELD VERIFY THE CITY'S EXISTING SEWER FACILITIES INCLUDING PUBLIC AND PRIVATE DRAIN CONNECTIONS IN THE LIMITS OF THE REFERENCED PROJECT FOR ANY CONFLICTS DUE TO THE PROPOSED IMPROVEMENTS. ANY CONFLICT SHOULD BE RESOLVED WITH THE DEPARTMENT OF WATER MANAGEMENT PRIOR TO START OF CONSTRUCTION.
- IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
- IN CASE OF ANY DAMAGE TO THE CITY'S SEWER SYSTEM, PRIVATE AND PUBLIC DRAIN CONNECTIONS, THE CONTRACTOR SHALL CONTACT THE CHICAGO DEPARTMENT OF WATER MANAGEMENT IMMEDIATELY AT (312) 747-8117 OR (312) 747-7893. THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS, AND SEWER STRUCTURES AS NECESSARY. THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES.
- CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
- THE WATER MAIN SHUTDOWN REQUIRED TO PERFORM THE WORK WILL ONLY BE ALLOWED BETWEEN OCTOBER 1ST AND MAY 1ST. THE WORK MUST BE SUBSTANTIALLY COMPLETE IN ORDER TO PLACE THE WATER MAIN BACK INTO SERVICE ON OR BEFORE MAY 1ST. CONTACT CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT FOR SHUTDOWN OF WATER MAIN AT (312) 744-5070. CONTACT SHALL BE MADE NO LESS THAN 7 DAYS PRIOR TO DESIRED SHUTDOWN.
- AS-BUILT PLANS MUST BE SUBMITTED RIGHT AFTER WORK COMPLETION. FINAL PAYMENT SHALL NOT BE MADE TO THE CONTRACTOR UNTIL THE DEPARTMENT OF WATER MANAGEMENT ACKNOWLEDGES RECEIPT OF AS-BUILT PLANS.
- WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF TRANSPORTATION OF ANY DAMAGE TO CITY OWNED AND MAINTAINED TRAFFIC SIGNS, SIGNALS, GUARDRAILS, FENCES, ETC.
- THE CONTRACTOR SHALL SAWCUT A MINIMUM DEPTH OF ONE AND A HALF INCHES (1 1/2") WITH A CONCRETE SAWING MACHINE, TO PREVENT THE SURFACE FROM SPALLING WHEN THE SURFACE COURSE AND THE BASE COURSE ARE BROKEN. THE WORK SHALL BE DONE IN SUCH A MANNER THAT A STRAIGHT JOINT IS SECURED. THE CONTRACTOR SHALL SAWCUT THE PAVEMENT FULL DEPTH FOR PATCHES AND AROUND STRUCTURES. AT CONCRETE CURB AND GUTTER CONTRACTOR SHALL SAWCUT TO THE BASE OF THE CURB AND GUTTER. ALL SAWCUTTING REQUIRED WHETHER OR NOT SPECIFIED ON THE PLANS SHALL BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL PAY ITEMS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 1/2-INCH THICK EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS, AND MANHOLES WHICH EXTEND THROUGH THE SIDEWALK UNLESS OTHERWISE NOTED ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PORTLAND CEMENT CONCRETE SIDEWALK PAY ITEM. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- FLOW RESTRICTORS SHALL BE INSTALLED IN ALL CATCH BASINS OUTSIDE OF THE CENTRAL BUSINESS DISTRICT EXCEPT IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE COST OF THE RESTRICTORS SHALL BE INCLUDED IN THE COST OF THE CATCH BASIN.

**CITY OF CHICAGO - GENERAL NOTES**

- THE CONVERSION OF NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) TO CITY OF CHICAGO DATUM IS APPROXIMATELY 579.19 FEET.
- ALL WORK MUST CONFORM TO THE MOST CURRENT CITY OF CHICAGO STANDARDS FOR CONSTRUCTION IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, (ADA) AVAILABLE ON THE CITY OF CHICAGO WEBSITE.

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DIBW25-01-General-03	DESIGNED - AFC	REVISED - 7/19/2013
USER NAME - chrus	DRAWN - AFC	REVISED -
PLOT SCALE - 50.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE - 7/16/2013	DATE - 6/17/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						90/94/290	2013-007R	COOK	317	4
									CONTRACT NO. 60W25	
ILLINOIS FED. AID PROJECT										



MORGAN STREET BRIDGE AT I-290 / CONGRESS PKWY

90% FED.  
10% STATE  
URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			LIGHTING	TRAFFIC SIGNALS	UTILITY
				ROADWAY	BRIDGE	RETAINING WALL			
				0004 URBAN	0011 016-1709	0040 016-1724			
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25					
20101100	TREE TRUNK PROTECTION	EACH	5	5					
20101200	TREE ROOT PRUNING	EACH	1	1					
20200100	EARTH EXCAVATION	CU YD	755	755					
20400800	FURNISHED EXCAVATION	CU YD	610	610					
<del>20700220</del>	<del>POROUS GRANULAR EMBANKMENT</del>	<del>CU YD</del>	<del>2774</del>	<del>2500</del>	<del>266</del>				
20000150	TRENCH BACKFILL	CU YD	1634	510	1124				874
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	1548	1548					
* 25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5					
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63	63					
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63	63					
* 25100135	MULCH, METHOD 4	ACRE	.75	.75					
* 25100630	EROSION CONTROL BLANKET	SO YD	1387	1387					
* 25200110	SODDING, SALT TOLERANT	SO YD	186	186					

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

Rev.

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DIGW25-sh1-500  
USER NAME: pmsorno  
PLOT SCALE: 1,000' / 1" = 1000'  
PLOT DATE: 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013  
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 5
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE							
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY		
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN		
* 25200200	SUPPLEMENTAL WATERING	UNIT	1.9	1.9							
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	107.75	107.75							
28000400	PERIMETER EROSION BARRIER	FOOT	1908	1908							
28000510	INLET FILTERS	EACH	78	78							
<del>30300104</del>	<del>AGGREGATE SUBGRADE IMPROVEMENT 4"</del>	<del>SQ YD</del>	<del>3524</del>	<del>3524</del>							
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	5Q YD	1268	1268							
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	5Q YD	1444	1444							
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	5Q YD	1297	1297							
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	250	250							
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.8	0.8							
40600300	AGGREGATE (PRIME COAT)	TON	3	3							
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	164	164							
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	109	109							
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	0.1	0.1							
42001200	PAVEMENT FABRIC	5Q YD	1024	1024							

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM



0160W25-sh1-500  
 USER NAME = pmsarno  
 PLOT SCALE = 1:8000 / in.  
 PLOT DATE = 5/16/2013

DESIGNED - JWM  
 DRAWN - JWM  
 CHECKED - AC  
 DATE - 5/14/2013  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 6
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

Rev. 7-19-13

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE			LIGHTING 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN	UTILITY 0043 URBAN
				ROADWAY 0004 URBAN	BRIDGE 0011 016-1709	RETAINING WALL 0040 016-1724			
42001300	PROTECTIVE COAT	SO YD	2853	2853					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	59	59					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	2896	2896					
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SO FT	1113	1113					
44000100	PAVEMENT REMOVAL	SO YD	1726	1726					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	109	109					
44000300	CURB REMOVAL	FOOT	26	26					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1519	1519					
44000600	SIDEWALK REMOVAL	SO FT	3919	3919					
44001980	CONCRETE BARRIER REMOVAL	FOOT	477	477					
44004250	PAVED SHOULDER REMOVAL	SO YD	480	480					
<del>44201019</del>	<del>CLASS B PATCHES, TYPE II, 14 INCH</del>	<del>SO YD</del>	<del>7</del>	<del>7</del>					
44201023	CLASS B PATCHES, TYPE III, 14 INCH	SO YD	32	32					
44201025	CLASS B PATCHES, TYPE IV, 14 INCH	SO YD	297	297					

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

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303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-5076  
PHONE (312) 373-7700 FAX (312) 373-6800

DIG0425-4ht-500  
USER NAME = pmsrno  
PLOT SCALE = 1:8000 "/>

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 7
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE			LIGHTING	TRAFFIC SIGNALS	UTILITY
				ROADWAY	BRIDGE	RETAINING WALL			
				0004	0011	0040	0021	0021	0043
				URBAN	016-1709	016-1724	URBAN	URBAN	URBAN
44213200	SAW CUTS	FOOT	574	574					
44213204	TIE BARS 3/4"	EACH	201	201					
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1				
△ 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1						1
<del>50100400</del>	<del>REMOVAL OF EXISTING STRUCTURES NO. 2</del>	<del>EACH</del>	<del>1</del>						
50102400	CONCRETE REMOVAL	CU YD	83			68			15
50157300	PROTECTIVE SHIELD	SQ YD	1439		1439				
50200100	STRUCTURE EXCAVATION	CU YD	148		144				4
50300225	CONCRETE STRUCTURES	CU YD	1034.1	6.5	853.7	158.9			15
50300255	CONCRETE SUPERSTRUCTURE	CU YD	766.5		766.5				
50300260	BRIDGE DECK GROOVING	SQ YD	1287		1287				
50300285	FORM LINER TEXTURED SURFACE	SQ FT	1732		1732				
50300300	PROTECTIVE COAT	SQ YD	2340	20	2237	83			
△ 50500305	ERECTING STRUCTURAL STEEL	L SUM	1						1
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1				
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	42,810			42,810			
50500505	STUD SHEAR CONNECTORS	EACH	10,044		10044				

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

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Rev.



0160W25-shc-500  
USER NAME \* pimsarno  
PLOT SCALE \* 1/8" = 1' / in.  
PLOT DATE \* 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
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REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 8
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE			LIGHTING 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN	UTILITY 0043 URBAN
				ROADWAY 0004 URBAN	BRIDGE 0011 016-1709	RETAINING WALL 0040 016-1724			
50800105	REINFORCEMENT BARS	POUND	398,156		351,016	45,080			2,060
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	401,200	620	362,430	38,150			
50800515	BAR SPLICERS	EACH	1031		1031				
51500100	NAME PLATES	EACH	1		1				
51602000	PERMANENT CASING	FOOT	5691		5113	578			
51603000	DRILLED SHAFT IN SOIL	CU YD	1729		1470	259			
* 51604000	DRILLED SHAFT IN ROCK	CU YD	42		42				
52000110	PREFORMED JOINT STRIP SEAL	FOOT	124		124				
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24		24				
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	12		12				
52100510	ANCHOR BOLTS, 3/4"	EACH	41			25			16
52100520	ANCHOR BOLTS, 1"	EACH	72		72				
52100540	ANCHOR BOLTS, 1 1/2"	EACH	24		24				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	69	69					
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	347	347					
<del>550A0360</del>	<del>STORM SEWERS, CLASS A, TYPE 2 15"</del>	<del>FOOT</del>	<del>160</del>	<del>160</del>					
55100500	STORM SEWER REMOVAL 12"	FOOT	86	86					

\* DENOTES SPECIALTY ITEM      \*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

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0160W25-sht-500  
USER NAME: j\_pimorino  
PLOT SCALE: 1:8000 1/4" = 1'-0"  
PLOT DATE: 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	9
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



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CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004	0011	0040	0021	0021	0043	
				URBAN	016-1709	016-1724	URBAN	URBAN	URBAN	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	3	3						
58700300	CONCRETE SEALER	SO FT	8728	8728						
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	448		391		57			
<del>59300100</del>	<del>CONTROLLED LOW STRENGTH MATERIAL</del>	<del>CU YD</del>	<del>845</del>							
60107700	PIPE UNDERDRAINS 6"	FOOT	134	134						
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	17	17						
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1						
60201310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	4	4						
60201340	CATCH BASINS, TYPE A 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3						
<del>60200210</del>	<del>CATCH BASINS, TYPE C, TYPE 20 FRAME AND GRATE</del>	<del>EACH</del>	<del>3</del>	<del>3</del>						
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1						
<del>60234200</del>	<del>INLETS, TYPE A, TYPE 1 FRAME, OPEN LID</del>	<del>EACH</del>	<del>1</del>	<del>1</del>						
60237420	INLETS, TYPE A, TYPE 20 FRAME AND GRATE	EACH	2	2						
60250200	CATCH BASINS TO BE ADJUSTED	EACH	7	7						
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2						

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

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303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-3276  
PHONE: 312-717-7000 FAX: 312-717-4800

DIGW25-shr-500	DESIGNED - JWM	REVISED -
USER NAME = pjm30r.no	DRAWN - JWM	REVISED -
PLOT SCALE = 1.0000 "/ in.	CHECKED - AC	REVISED -
PLOT DATE = 5/16/2013	DATE - 5/14/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 6 OF 21 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	10
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY
				0004	0011	0040	0021	0021	0043
				URBAN	016-1709	016-1724	URBAN	URBAN	URBAN
60253800	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE B GRATE	EACH	1	1					
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1					
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1					
60500040	REMOVING MANHOLES	EACH	3	3					
60500050	REMOVING CATCH BASINS	EACH	12	12					
60500060	REMOVING INLETS	EACH	2	2					
60600605	CONCRETE CURB, TYPE B	FOOT	78	78					
<del>60602800</del>	<del>CONCRETE GUTTER, TYPE B</del>	<del>FOOT</del>	<del>515</del>	<del>515</del>					
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	296.5	296.5					
63700175	CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT	FOOT	409	409					
63700805	CONCRETE BARRIER TRANSITION	FOOT	120	120					
63700900	CONCRETE BARRIER BASE	FOOT	787	787					
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	487	487					
* 64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1					

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

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303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-3010  
PHONE: (312) 373-7700 FAX: (312) 373-6800

DWG NO: 60605000  
USER NAME: jplmario  
PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 11
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

90% FED.  
10% STATE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE								
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY			
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN			
66400305	CHAIN LINK FENCE, 6'	FOOT	115	115								
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	3100	3100								
<del>66900205</del>	<del>SPECIAL WASTE DISPOSAL</del>	<del>CU YD</del>	<del>0</del>									
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1								
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2								
67100100	MOBILIZATION	L SUM	1	1								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	50	50								
* 70300100	SHORT TERM PAVEMENT MARKING	FOOT	39,386	39,386								
* 70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	140	140								
* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	833	833								
* 70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	290	290								
* 70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	297	297								
* 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	73	73								
* 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	4452	4452								

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

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Rev.

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303 EAST Wacker Drive, Suite 1400  
Chicago, IL 60601-3076  
Phone: 312.312.7700 Fax: 312.312.4400

DIG0W25-sh1-500  
USER NAME: pjasarno  
PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 8 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-00TR	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 12
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1325	1325						
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1725	1725						
* 70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2						
* 70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4						
* 72000100	SIGN PANEL - TYPE 1	SQ FT	74	74						
* 72000200	SIGN PANEL - TYPE 2	SQ FT	62	62						
* 72000300	SIGN PANEL - TYPE 3	SQ FT	911.75	911.75						
* 72100100	SIGN PANEL OVERLAY	SQ FT	9	9						
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7						
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1						
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	64	64						
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	42	42						
* 72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	802	802						
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	44	44						

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

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Rev.



303 EAST WACKER DRIVE, SUITE 1400  
CHICAGO, IL 60601-3279  
PHONE (312) 353-7700 FAX (312) 373-6000

DIGW25-sh1-500  
USER NAME = dlmpdrnd  
PLOT SCALE = 1:8000 \* / 1"  
PLOT DATE = 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013  
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 9 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 13
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1039	1039						
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	54	54						
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	139	139						
* 78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	17	17						
* 78100300	REPLACEMENT REFLECTOR	EACH	194	194						
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	16	16						
* 78300100	PAVEMENT MARKING REMOVAL	SO FT	3022	3022						
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	230	230						
* 80300100	LOCATING UNDERGROUND CABLE	FOOT	100				100			
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	130				130			
* 81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	19				19			
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1731				1731			
* 81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	219						219	
* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	660				660			
* 81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	834				834			

Handwritten circled notes: 3022, 3022, 230, 230 with a triangle symbol.

\* DENOTES SPECIALTY ITEM      \*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

Rev.

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DIGW25-akt-500  
USER NAME: jpw  
PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
SCALE: SHEET 11 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-00TR	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W25	



90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY 0004 URBAN	BRIDGE 0011 016-1709	RETAINING WALL 0040 016-1724	LIGHTING 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN	UTILITY 0043 URBAN	
* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	280				280			
* 81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	1000				1000			
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1000				1000			
* <b>81200250</b>	<b>CONDUIT EMBEDDED IN STRUCTURE, 3" DIA, PVC</b>	FOOT	<b>26</b>						<b>26</b>	
* 81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	12				12			
* 81300410	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 4"	EACH	3				3			
* 81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4				4			
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	12				12			
* 81400200	HEAVY-DUTY HANDHOLE	EACH	3				3			
* 81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	320				320			
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2340				2340			
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	320				320			
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	960				960			
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1420				1420			
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	3				3			

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

Rev.

FILE PATH: c:\projects\jason\project\60w25\Documents\01\_drawing\traces\traces\60w25\60w25.ctb  
 303 EAST WACKER DRIVE, SUITE 1400  
 CHICAGO, IL 60601-5716  
 PHONE: (312) 373-7700 FAX: (312) 373-6800



0160W25-h1-500  
 USER NAME: jason  
 PLOT SCALE: 1/8" = 1'-0"  
 PLOT DATE: 5/16/2013

DESIGNED - JWM  
 DRAWN - JWM  
 CHECKED - AC  
 DATE - 5/14/2013  
 REVISED -  
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 REVISED -  
 REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 12 OF 21 SHEETS STA. TO STA.


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	16
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
* 82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	12				12			
<del>83050825</del>	<del>LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM</del>	<del>EACH</del>	<del>4</del>				<del>4</del>			
<del>83600200</del>	<del>LIGHT POLE FOUNDATION, 24" DIAMETER</del>	<del>FOOT</del>	<del>52</del>				<del>52</del>			
<del>83000205</del>	<del>BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE</del>	<del>EACH</del>	<del>4</del>				<del>4</del>			
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	23				23			
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	7				7			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1					1		
<del>87301727</del>	<del>ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 19 GC</del>	<del>FOOT</del>	<del>1034</del>				<del>1034</del>			
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	394				394			
* 87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	1034				1034			
* 87502690	TRAFFIC SIGNAL POST, ALUMINUM 15 FT.	EACH	2					2		
* 87900200	DRILL EXISTING HANDHOLE	EACH	3 				3 			
* 88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8					8		
* 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9					9		
* 88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8					8		

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

 Rev. 7-19-13

Rev.

 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5076 PHONE: (312) 375-7700 FAX: (312) 375-6600	DESIGNED - JWM DRAWN - JWM CHECKED - AC DATE - 5/14/2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 17	ILLINOIS FED. AID PROJECT CONTRACT NO. 60W25
	SCALE: SHEET 13 OF 21 SHEETS STA. TO STA.										

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY 0004 URBAN	BRIDGE 0011 016-1709	RETAINING WALL 0040 016-1724	LIGHTING 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN	UTILITY 0043 URBAN	
<del>88600100</del>	<del>DETECTOR LOOP, TYPE I</del>	FOOT	<del>183</del>						<del>183</del>	
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1						1	
* 89502380	REMOVE EXISTING HANDHOLE	EACH	4						4	
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6						6	
<b>X0321903</b>	<b>MICRO-PILES</b>	EACH	<b>4</b>							<b>4</b>
* X0322141	REMOVE TEMPORARY WOOD POLE	EACH	1						1	
X0322400	PILE EXTRACTION	EACH	<b>27</b>			<b>27</b>				
* X0322689	POLE, STEEL, ANCHOR BASE, 10" DIA., 7-GAUGE, 34' -6"	EACH	1						1	
X0323044	COARSE SAND PLACEMENT	SQ YD	426	426						
<del>X0324198</del>	<del>REMOVAL OF ASBESTOS CEMENT CONDUIT</del>	FOOT	<del>1280</del>						<del>1280</del>	
X0324345	COMBINED SEWER REMOVAL 24"	FOOT	34	34						
<b>X0324465</b>	<b>DRILLING AND SETTING SOLDIER PILES (IN SOIL)</b>	CU FT	<b>1358</b>							<b>1358</b>
* X0324571	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1						1	
X0325207	TELEVISION INSPECTION OF SEWER	FOOT	4191	4191						
* X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	3						3	

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

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016626938-60W25  
USER NAME = pmsarno  
PLOT SCALE = 1,0000' / 1" =  
PLOT DATE = 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 14 OF 21 SHEETS STA. TO STA.

F.A.L. RTE. 90/94/290	SECTION 2013-00TR	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 18
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY 0004	BRIDGE 0011	RETAINING WALL 0040	LIGHTING 0021	TRAFFIC SIGNALS 0021	UTILITY 0043	
				URBAN	016-1709	016-1724	URBAN	URBAN	URBAN	
* X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	1380 $\Delta$				1380 $\Delta$			
* X0326451	VIDEO SYSTEM DETECTION CAMERA	EACH	3					3		
X0326486	DECORATIVE RAILING (PARAPET MOUNTED)	FOOT	639 $\Delta$		639 $\Delta$					
* X0326801	COMBINED SEWERS TO BE CLEANED	FOOT	253	253						
* X0326968	JUNCTION BOX, POLE OR POST MOUNTED	EACH	9					9		
* X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	2				2			
* X0327172	REMOVE AND REPLACE SIGN AND SUPPORTS	EACH	1	1						
* X0327371	PLUG EXISTING PIPE	CUYD	0.2	0.2						
X6050040	REMOVING MANHOLES, SPECIAL	EACH	1				1			
* X0370010	COAXIAL JUMPER CABLE (CDOT)	EACH	3					3		
* X0370013	CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER (CDOT)	EACH	1					1		
* X0370014	CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS, 13" BOLT CIRCLE (CDOT)	EACH	2					2		
* X0370015	CONCRETE FOUNDATION, 30" DIAMETER, 1 1/2" ANCHOR RODS, 16 1/2" BOLT CIRCLE (CDOT)	EACH	2					2		
* X0370017	DRILL MANHOLE OR HANDHOLE, CHICAGO	EACH	4					4		
* X0370018	ELECTRIC CABLE IN CONDUIT NO. 14, 19/C (CDOT)	FOOT	694					694		

\* DENOTES SPECIALTY ITEM      \*\* DENOTES NON-PARTICIPATING ITEM (100% STATE)

$\Delta$  Rev. 7-19-13

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DIGW25-sht-500  
USER NAME = pumsonno  
PLOT SCALE = 1:8000" = 1" = 8000'  
PLOT DATE = 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
SCALE: SHEET 15 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 19
CONTRACT NO. 60W25				
[ILLINOIS] FED. AID PROJECT				

90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
* X0370021	ELECTRICAL HANDHOLE, 30", 24" FRAME AND LID (CDOT)	EACH	1						1	
* X0370022	ELECTRICAL HANDHOLE, HEAVY DUTY, 36", 24" FRAME AND LID (CDOT)	EACH	1						1	
* X0370023	ELECTRICAL MANHOLE, 3' X 4' X 4', 24" FRAME AND LID (CDOT)	EACH	2				1		1	
* X0370028	HARNESS CABLE, NO. 16 B/C (CDOT)	FOOT	340						340	
* X0370031	POLE, STEEL, ANCHOR BASE, 12-1/2" DIA. 3-GAUGE, 34'-6" (CDOT)	EACH	2						2	
* X0370042	VIDEO CABLE HARNESS (CDOT)	EACH	3						3	
* X0370044	VIDEO DETECTION POWER SUPPLY (CDOT)	EACH	1						1	
* X0370047	INSTALL LIGHT POLE, MAST ARM AND LUMINAIRE (CHICAGO)	EACH	12						12	
* X0370049	UNDERGROUND CONDUIT, PVC, 2" DIA., SCHEDULE 80 (CDOT)	FOOT	410						410	
* X0370050	ADVANCED TRANSPORTATION CONTROLLER, TRAFFIC, 16 LOAD BAY, P CABINET (CDOT)	EACH	1						1	
* X0370052	ELECTRIC CABLE IN CONDUIT NO. 4, 2/C (CDOT)	FOOT	97						97	
* X0370053	ELECTRIC CABLE IN CONDUIT, NO. 14 3/C, SHIELDED (CDOT)	FOOT	387						387	
* X0370054	INTERFACE PANEL, 4 CAMERA (CDOT)	EACH	1						1	
* X0370057	MAST ARM, STEEL, MONOTUBE 20 FT. (CDOT)	EACH	3						3	

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13



DIGW25-sh1-S00  
 USER NAME = pmsarino  
 PLOT SCALE = 1/8" = 1'-0"  
 PLOT DATE = 5/16/2013

DESIGNED - JWM  
 DRAWN - JWM  
 CHECKED - AC  
 DATE - 5/14/2013

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 16 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 20 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
* X0370058	MAST ARM, STEEL, MONOTUBE 26 FT. (CDOT)	EACH	1						1	
* X0370063	SERVICE INSTALLATION, 100 AMPERE (CDOT)	EACH	1						1	
* X0370064	UNDERGROUND CONDUIT, PVC, 3" DIA. SCHEDULE 80 (CDOT)	FOOT	538				190		348	
* X0370065	VIDEO DETECTION CARD RACK, FOUR CAMERA (CDOT)	EACH	1						1	
* X0370068	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE (CDOT)	EACH	7				6		1	
X2020502	BRACED EXCAVATION	CU YD	4334		2906	1428				
X4240800	DETECTABLE WARNINGS (SPECIAL)	SO FT	98	98						
X4404000	PARKING LOT PAVEMENT REMOVAL	SO YD	61	61						
X5011100	FOUNDATION REMOVAL	EACH	12	12						
! X5017307	PROTECTIVE SHIELD, SPECIAL	58 YD	270							270
X5091730	BRIDGE FENCE RAILING (SPECIAL)	FOOT	140		140					
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	59	59						
<del>X5537700</del>	<del>STORM SEWERS TO BE CLEANED 10"</del>	<del>FOOT</del>	<del>227</del>	<del>227</del>						
** X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	138	138						
* X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	58	58						
! X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	686		608	78				
X6020083	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	3	3						
X6020270	MANHOLES TYPE B, 4' DIA., TYPE 1 FRAME, CLOSED LID (CITY OF CHICAGO)	EACH	1	1						

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

Rev.



0160W25-shs-500  
USER NAME = pmsorino  
PLOT SCALE = 1/8" = 1'-0"  
PLOT DATE = 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013  
REVISED -  
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 17 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 21
CONTRACT NO. 60W25				

ILLINOIS FED. AID PROJECT

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CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
X6022505	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	6	6						
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	15	15						
<del>X6060505</del>	<del>CONCRETE CURB (SPECIAL)</del>	<del>FOOT</del>	<del>40</del>	<del>40</del>						
X6061700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)	FOOT	790	790						
X6370050	CONCRETE BARRIER WALL (SPECIAL)	FOOT	257	257						
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	1	1						
X6640050	CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)	FOOT	20	20						
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12	12						
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1						
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1						
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	50	50						
* X7200105	SIGN PANEL - TYPE 1 (SPECIAL)	50 FT	49	49						
* X8510250	PAINT EXISTING POLE, POST OR CONTROLLER COMPLETE	EACH	1						1	
* X8730249	ELECTRIC CABLE IN CONDUIT, NO. 19 6/C	FOOT	1034				1034			
* X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	216				216			
* X8800101	PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	2						2	
* X8850102	INDUCTION LOOP	FOOT	177				177			

\* DENOTES SPECIALTY ITEM      \*\* DENOTES NON-PARTICIPATING ITEM

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<b>AECOM</b> <small>303 EAST Wacker Drive, Suite 1400 Chicago, IL 60601-5276 Phone: (312) 375-7700 Fax: (312) 375-6800</small>	<small>DIGW25-ah1-500</small> <small>USER NAME: pimarino</small> <small>PLOT SCALE: 1/8" = 1'-0"</small> <small>PLOT DATE: 5/16/2013</small>	<small>DESIGNED - JWM</small> <small>DRAWN - JWM</small> <small>CHECKED - AC</small> <small>DATE - 5/14/2013</small>	<small>REVISED -</small> <small>REVISED -</small> <small>REVISED -</small> <small>REVISED -</small>	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b> <small>SCALE: SHEET 18 OF 21 SHEETS STA. TO STA.</small>	<small>F.A.I. RTE. 90/94/290</small> <small>SECTION 2013-007R</small> <small>COUNTY COOK</small> <small>TOTAL SHEETS 317</small> <small>SHEET NO. 22</small> <small>CONTRACT NO. 60W25</small> <small>ILLINOIS FED. AID PROJECT</small>
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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
X0327614	COMBINED SEWER REMOVAL 12"	FOOT	57	57						
Z0003855	BICYCLE RACKS	EACH	1	1						
Z0004552	APPROACH SLAB REMOVAL	SO YD	296	296						
<del>Z0007110</del>	<del>UNTREATED TIMBER LAGGING</del>	<del>SO FT</del>	<del>5161</del>			<del>619</del>	<del>4542</del>			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1						
Z0022800	FENCE REMOVAL	FOOT	282	282						
<del>Z0026402</del>	<del>FURNISHING SOLDIER PILES (HP SECTION)</del>	<del>FOOT</del>	<del>212</del>							<del>212</del>
<del>Z0026404</del>	<del>FURNISHING SOLDIER PILES (W SECTION)</del>	<del>FOOT</del>	<del>7464</del>			<del>1685</del>	<del>5778</del>			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	146	146						
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	3				3			
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6				6			
* Z0033050	COAXIAL CABLE IN CONDUIT	FOOT	387						387	
Z0046306	PIPE UNDERDRAINS FOR STRUCTURES 6"	FOOT	232		203	29				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1						

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

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D160W25-sht-500  
USER NAME = p135890  
PLOT SCALE = 1/8000' / in.  
PLOT DATE = 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

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REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 19 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 23
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	34	34						
Z0062456	TEMPORARY PAVEMENT	SO YD	1044	1044						
<del>Z0073002</del>	<del>TEMPORARY SOIL RETENTION SYSTEM</del>	<del>SO FT</del>	<del>1398</del>		<del>1332</del>	<del>66</del>				
<del>Z0076600</del>	<del>TRAINEES</del>	<del>HOUR</del>	<del>0</del>							
X0370069	COMBINED SEWER (EXTRA STRENGTH VITRIFIED CLAY PIPE) 8 INCH (CDOT)	FOOT	26	26						
X0370070	COMBINED SEWER (WATER MAIN REQUIREMENTS) 8 INCH (CDOT)	FOOT	92	92						
X0370071	COMBINED SEWER (WATER MAIN REQUIREMENTS) 12 INCH (CDOT)	FOOT	54	54						
X0370072	COMBINED SEWER (WATER MAIN REQUIREMENTS) 24 INCH (CDOT)	FOOT	20	20						
X0327615	COMBINED SEWER REMOVAL 8"	FOOT	83	83						
X6640704	TEMPORARY CHAIN LINK FENCE WITH SCREENING, 4'	FOOT	274	274						
* X0370073	REMOVE AND REINSTALL EXISTING MAST AND LUMINAIRE (CDOT)	EACH	3				3			
* X0370074	RACKING CABLES IN MANHOLE OR HANDHOLE (CDOT)	EACH	2				2			
<del>X0370075</del>	<del>GROUND ROD, 3/4" X 10'-0" LENGTH (CDOT)</del>	<del>EACH</del>	<del>7</del>				<del>7</del>			
* X0370075	UNDERGROUND CONDUIT, PVC, 4" DIA., SCHEDULE 80 (CDOT)	FOOT	420				420			
** X0370076	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM (CDOT)	FOOT	18						18	

\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

Rev. 7-19-13

Rev.



DIG0425-sh1-500  
USER NAME \* pmsarno  
PLOT SCALE \* 1/8" = 1' / in.  
PLOT DATE \* 5/16/2013

DESIGNED - JWM  
DRAWN - JWM  
CHECKED - AC  
DATE - 5/14/2013

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 20 OF 21 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 24
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

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90% FED.  
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY	BRIDGE	RETAINING WALL	LIGHTING	TRAFFIC SIGNALS	UTILITY	
				0004 URBAN	0011 016-1709	0040 016-1724	0021 URBAN	0021 URBAN	0043 URBAN	
* X0327616	MAINTAINING ITS DURING CONSTRUCTION	CAL MO	6				6			
X0370077	LOCATE TUNNEL, CHICAGO	EACH	2							2
X0370078	BULKHEAD TUNNEL, CHICAGO	EACH	2							2
* X0370079	RELOCATE WATER MAIN RISER (CDWM)	L SUM	1							1
X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ. YD	49	49						
X0327357	CONSTRUCTION VIBRATION MONITORING	L SUM	1	1						
⓪ Z0076600	TRAINEES	HOUR	1500	1500						
⓪ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1500	1500						
56101176	DUCTILE IRON WATER PIPE FITTINGS-30"X24" 2 BELL MECHANICAL JOINT REDUCER	EACH	1							1
56101178	DUCTILE IRON WATER PIPE FITTINGS-36"X24" 2 BELL MECHANICAL JOINT REDUCER	EACH	1							1
56104322	DUCTILE IRON WATER PIPE FITTINGS-24" 2 BELL MECHANICAL JOINT REDUCER ¼ BASE BEND	EACH	2							2
56104323	DUCTILE IRON WATER PIPE FITTINGS-30" MECHANICAL JOINT SLEEVE	EACH	1							1
56104324	DUCTILE IRON WATER PIPE FITTINGS-36" MECHANICAL JOINT SLEEVE	EACH	1							1
56105310	WATER MAIN CONTROL VALVE-16 INCH	EACH	1							1
X7035100	TEMPORARY EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	42	42						
X7035104	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4"	FOOT	14,867	14,867						
X7035105	TEMPORARY EPOXY PAVEMENT MARKING - LINE 5"	FOOT	4,061	4,061						
X7035108	TEMPORARY EPOXY PAVEMENT MARKING - LINE 8"	FOOT	925	925						
X703524	TEMPORARY EPOXY PAVEMENT MARKING - LINE 24"	FOOT	20	20						
X7200953	REMOVE, STORE, RE-ERECT OVERHEAD SIGN PANEL (SPECIAL)	EACH	4	4						

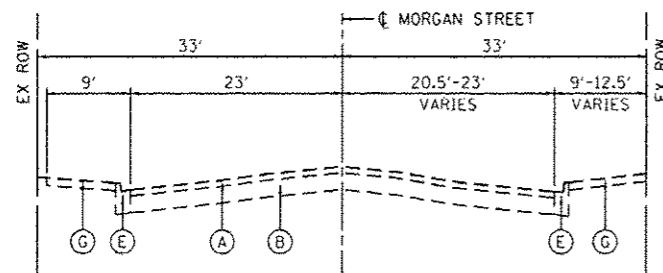
⓪ 0042  
\* DENOTES SPECIALTY ITEM

\*\* DENOTES NON-PARTICIPATING ITEM

⚠ Rev. 7-19-13 Rev.

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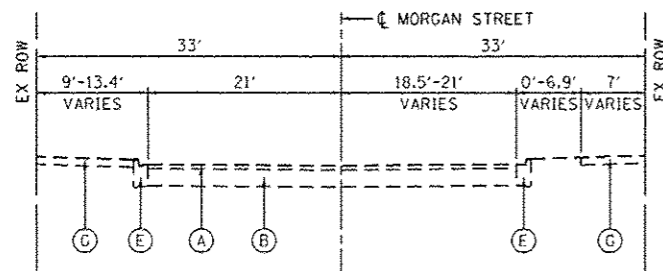




**EXISTING TYPICAL SECTION  
MORGAN STREET**

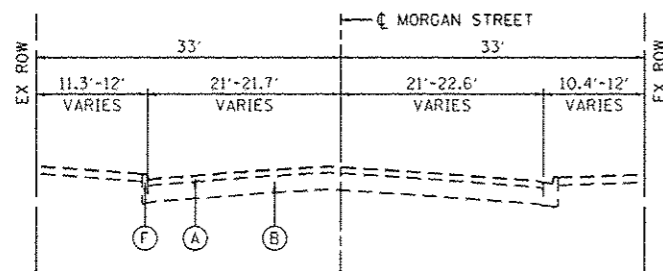
STA 3602+45.00 TO STA 3603+24.68

BRIDGE INCLUDING APPROACH PAVEMENT  
STA 3603+24.68 TO STA 3605+99.59



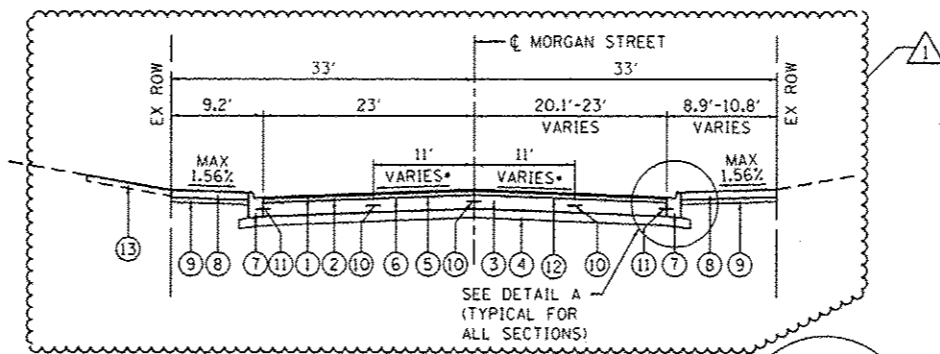
**EXISTING TYPICAL SECTION  
MORGAN STREET**

STA 3605+99.59 TO STA 3606+60.00



**EXISTING TYPICAL SECTION  
MORGAN STREET**

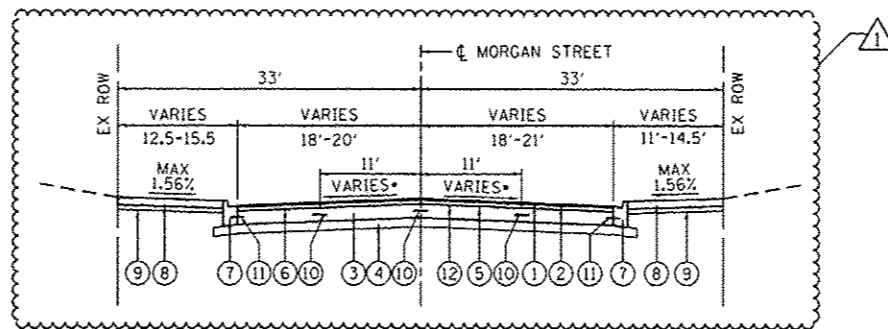
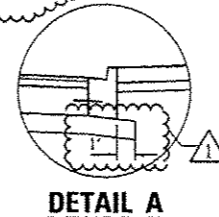
STA 3606+60.00 TO STA 3606+85.00



**PROPOSED TYPICAL SECTION  
MORGAN STREET**

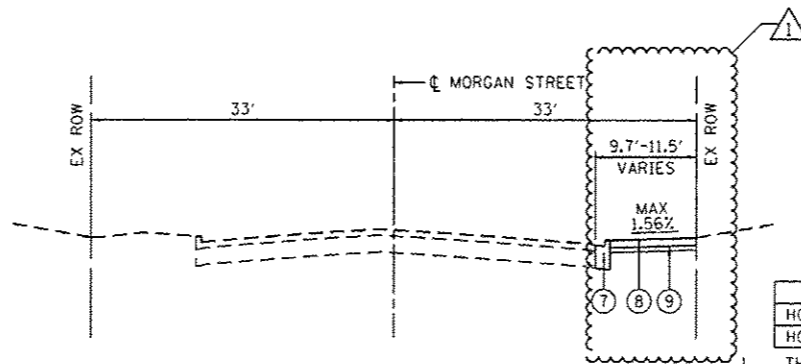
STA 3602+45.00 TO STA 3602+98.12  
• SEE NOTE 2

BRIDGE INCLUDING APPROACH PAVEMENT  
STA 3602+98.12 TO STA 3605+99.34



**PROPOSED TYPICAL SECTION  
MORGAN STREET**

STA 3605+99.34 TO STA 3606+60.00  
• SEE NOTE 2



**PROPOSED TYPICAL SECTION  
MORGAN STREET**

STA 3606+60.00 TO STA 3606+85.00

**EXISTING**

- (A) HOT-MIX ASPHALT PAVEMENT, 2 3/4" - 5"
- (B) PORTLAND CEMENT CONCRETE PAVEMENT, 11" - 11 1/4"
- (C) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
- (E) B-V.12 CONCRETE CURB AND GUTTER
- (F) CONCRETE CURB
- (G) P.C. CONCRETE SIDEWALK

**PROPOSED**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (4) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (5) BITUMINOUS MATERIALS (PRIME COAT)
- (6) AGGREGATE (PRIME COAT)
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)
- (8) PORTLAND CEMENT CONCRETE SIDEWALK (SEE PLAN & PROFILE SHEETS FOR DEPTHS)
- (9) COARSE SAND PLACEMENT, 4"
- (10) #6 TIE BARS, 24" LONG AT 24" C-C (LONGITUDINAL CONSTRUCTION JOINT) (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE)
- (11) #6 TIE BARS, 24" LONG AT 24" C-C (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER)
- (12) PAVEMENT FABRIC
- (13) TOPSOIL FURNISH AND PLACE, 4"

**NOTES:**

1. AS INDICATED ON THE CIVIL PLANS, TYPICALLY AT LEAST 6' OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
2. TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.4% AND 3.6% AS INDICATED ON THE PLANS.
3. ADJACENT TO CURB REMOVAL UP TO 2' OF PAVEMENT MAY BE REPLACED AS DIRECTED BY THE ENGINEER.
4. STABILIZATION STONE SHALL BE USED AT THE DISCRETION OF THE ENGINEER UNDER SUB-BASES AND STRUCTURES WHERE THE SUBGRADE IS DEEMED TOO UNSTABLE TO SUPPORT THE PROPOSED CONSTRUCTION.

**HOT MIX ASPHALT MIXTURE REQUIREMENTS**

MORGAN STREET AND CONGRESS PARKWAY		AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm); 1 1/2"		4% @ 50 CYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"		4% @ 50 CYR.

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/IN.
2. THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
3. PORTLAND CEMENT CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS. TEMPORARY PORTLAND CEMENT CONCRETE PAVEMENT DOES NOT REQUIRE DOWEL BARS.



D160425-shr-typical-01  
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PLOT DATE = 7/16/2013

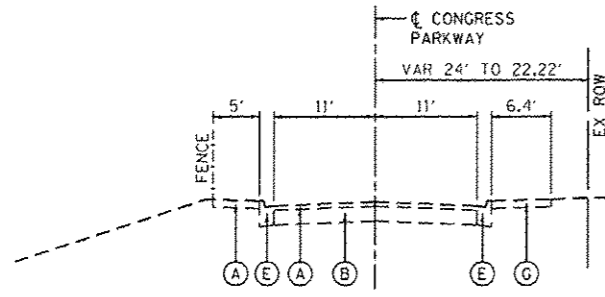
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CHECKED - DBM  
DATE - 5/14/2013  
REVISED - 7/19/2013  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

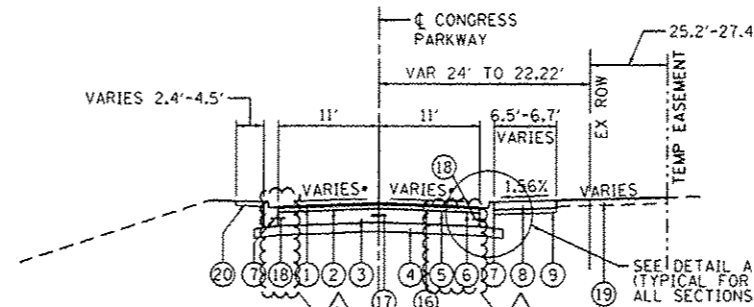
SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
90/94/290 2013-007R COOK 317 28  
CONTRACT NO. 60W25  
ILLINOIS FED. AID PROJECT



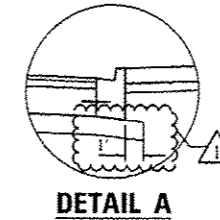
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CONGRESS PARKWAY**

STA 3305+05.00 TO STA 3606+47.62

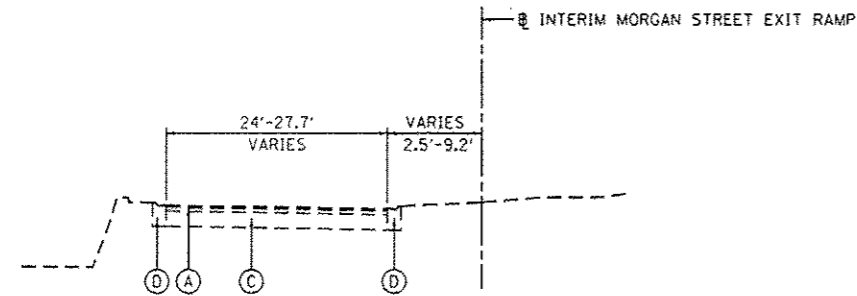


**PROPOSED TYPICAL SECTION  
CONGRESS PARKWAY**

STA 3305+05.00 TO STA 3306+51.50  
• SEE NOTE 2

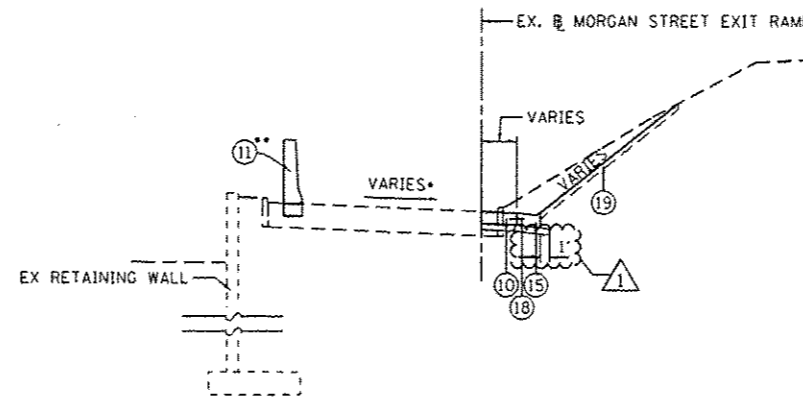


**DETAIL A**



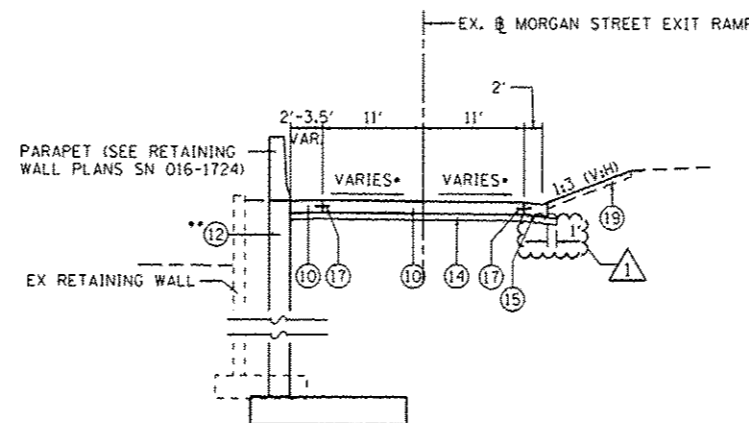
**EXISTING TYPICAL SECTION  
MORGAN STREET EXIT RAMP**

STA 3645+16.59 TO STA 3647+23.73



**PROPOSED TYPICAL SECTION  
INTERIM MORGAN STREET EXIT RAMP**

STA 1002+96.41 TO STA 1005+37.00  
• SEE NOTE 5  
• SEE NOTE 6



**PROPOSED TYPICAL SECTION  
INTERIM MORGAN STREET EXIT RAMP**

STA 1005+37.00 TO STA 1005+94.53  
• SEE NOTE 5

•• STA 1005+64.20 TO STA 1005+94.16  
SEE RETAINING WALL PLANS

**EXISTING**

- (A) HOT-MIX ASPHALT PAVEMENT, 2 3/4" - 5"
- (B) PORTLAND CEMENT CONCRETE PAVEMENT, 11" - 11 1/4"
- (C) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
- (E) B-V.12 CONCRETE CURB AND GUTTER
- (F) CONCRETE CURB
- (G) P.C. CONCRETE SIDEWALK

**PROPOSED**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"
- (3) PORTLAND CEMENT CONCRETE BASE COURSE, 9"
- (4) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (5) BITUMINOUS MATERIALS (PRIME COAT)
- (6) AGGREGATE (PRIME COAT)
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)
- (8) PORTLAND CEMENT CONCRETE SIDEWALK (SEE PLAN & PROFILE SHEETS FOR DEPTHS)
- (9) COARSE SAND PLACEMENT, 4"
- (10) TEMPORARY PAVEMENT (MORGAN STREET EXIT RAMP) (PORTLAND CEMENT CONCRETE PAVEMENT, 8")
- (11) CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (AND CONCRETE BARRIER BASE)
- (12) RETAINING WALL (SEE RETAINING WALL PLANS)
- (13) CONCRETE GUTTER, TYPE B
- (14) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (15) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (DEPRESSED)
- (16) PAVEMENT FABRIC
- (17) \*6 TIE BARS, 24" LONG AT 24" C-C (LONGITUDINAL CONSTRUCTION JOINT) (INCLUDED IN PRICE FOR BID FOR PCC BASE COURSE AND PCC PAVEMENT)
- (18) \*6 TIE BARS, 24" LONG AT 24" C-C (INCLUDED IN PRICE FOR BID FOR CURB AND GUTTER)
- (19) TOPSOIL FURNISH AND PLACE, 4"
- (20) INCIDENTAL HOT-MIX ASPHALT SURFACING

**NOTES:**

1. AS INDICATED ON THE CIVIL PLANS, TYPICALLY AT LEAST 6' OF PROPOSED SIDEWALK WIDTH MUST HAVE A CROSS SLOPE OF 1:64 OR LESS.
2. TYPICAL LOCAL ROADWAY CROSS SLOPE VARIES BETWEEN 1.4% AND 3.6% UNLESS OTHERWISE INDICATED ON THE PLANS.
3. ADJACENT TO CURB REMOVAL UP TO 2' OF PAVEMENT MAY BE REPLACED AS DIRECTED BY THE COMMISSIONER.
4. STABILIZATION STONE SHALL BE USED AT THE DISCRETION OF THE COMMISSIONER UNDER SUB-BASES AND STRUCTURES WHERE THE SUBGRADE IS DEEMED TOO UNSTABLE TO SUPPORT THE PROPOSED CONSTRUCTION.
5. SEE INTERSECTION AND GRADING DETAIL SHEETS FOR EXISTING AND PROPOSED PAVEMENT CROSS SLOPES.
6. SEE ROADWAY DETAILS SHEETS FOR CONCRETE BARRIER LAYOUT.

FILE PATH: s:\1\388837\p\m\1\ae\com\line\local\p\ae\com\20\Documents\1\Americas\Transportation\62619333\_Civil\Phase\_11\025\_CAD\025\_Roadway\Sheet\60W25-akt-1\general-02.dgn



D:\60W25-akt-1\general-02.dgn  
USER NAME: zhuo  
PLOT SCALE: 10.0000' / in.  
PLOT DATE: 7/18/2013

DESIGNED - AFC  
DRAWN - AFC  
CHECKED - DBM  
DATE - 6/17/2013  
REVISED - 7/19/2013  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	29
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

**REMOVAL SCHEDULE**

LOCATION	STATION	TO	STATION	TREE REMOVAL, ACRES	PAYEMENT REMOVAL	DRIVEWAY PAYEMENT REMOVAL	CURB REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	CONCRETE BARRIER REMOVAL	PAVED SHOULDER REMOVAL	PARKING LOT PAYEMENT REMOVAL	REMOVE IMPACT ATTENUATORS, NO SALVAGE	APPROACH SLAB REMOVAL	FENCE REMOVAL
				ACRE	SO YD	SO YD	FOOT	FOOT	SO FT	FOOT	SO YD	SO YD	EACH	SOYD	FOOT
MORGAN STREET	3602+45	TO	3606+85	-	988	26	-	492	2850	-	-	-	-	296	-
MORGAN STREET - UIC DRIVEWAY	3602+88	TO	3603+20	-	-	61	26	-	-	-	-	61	-	-	-
MORGAN STREET - DRIVEWAY	3606+35	TO	3606+52	-	-	22	-	-	-	-	-	-	-	-	-
CONGRESS PARKWAY	3305+50	TO	3306+63	-	473	-	-	310	1069	-	-	-	-	-	134
MORGAN STREET EXIT RAMP	1002+56	TO	1005+92	-	265	-	-	562	-	-	18	-	1	-	-
I-290 WESTBOUND	338+11	TO	340+60	-	-	-	-	155	-	248	346	-	-	-	148
I-290 EASTBOUND	338+25	TO	339+86	0.06	-	-	-	-	-	229	116	-	-	-	-
TOTAL				0.06	1726	109	26	1519	3919	477	480	61	1	296	282
ROUNDED TOTAL				0.25	1726	109	26	1519	3919	477	480	61	1	296	282



FILE PATH: c:\385237\p\1\acomp\1\local\60w25\Schedule-B1 America\Transportation\60w25\Roadway\Sheet\60w25-Schedule-B1



60W25-Schedule-B1  
 USER NAME: CHUA  
 PLOT SCALE: 50.0000' / 1" = 1'  
 PLOT DATE: 7/14/2013

DESIGNED - AFC  
 DRAWN - AFC  
 CHECKED - DBM  
 DATE - 6/17/2013  
 REVISED - 7/19/2013  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	31
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

**ROADWAY SCHEDULE**

LOCATION	STATION	TO	STATION	TREE TRUNK PROTECTION	TOPSOIL FURNISH AND PLACE, 4"	SODDING, SALT TOLERANT	SUPPLEMENTAL WATERING	SUBBASE GRANULAR MATERIAL, TYPE B, 4"	SUBBASE GRANULAR MATERIAL, TYPE B, 6"	PORTLAND CEMENT CONCRETE BASE COURSE 9"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0 NTO	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO	INCIDENTAL HOT-MIX ASPHALT SURFACING	PAVEMENT FABRIC	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	CLASS B PATCHES, TYPE III, 14 INCH	CLASS B PATCHES, TYPE IV, 14 INCH	SAW CUTS	TIE BARS 3/4"
				EACH	SO YD	SO YD	UNIT	SO YD	SO YD	SO YD	TON	TON	TON	TON	TON	SO YD	SO YD	SO YD	SO FT	SO FT	SO YD	SO YD	FOOT	EACH
MORGAN STREET	3602+45	TO	3606+85	-	-	186	1.9	-	939	858	0.5	1.8	108	72	-	857	513	-	1974.4	1112.8	-	-	-	-
MORGAN STREET - UIC DRIVEWAY	3602+88	TO	3603+20	-	-	-	-	-	86	86	0.1	0.2	11	7	-	86	41	41	-	-	-	-	-	-
MORGAN STREET - CONDO DRIVEWAY	3606+35	TO	3606+52	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	-	-	-	-	-	-
CONGRESS PARKWAY	3305+50	TO	3306+63	5	186	-	-	68	419	353	0.2	0.8	45	30	0.1	352	229	-	921.4	-	-	-	-	-
MORGAN STREET EXIT RAMP	1002+45	TO	1005+95	-	484	-	-	415	-	-	-	-	-	-	-	55	654	-	-	-	15	40	180	40
I-290 WESTBOUND	338+11	TO	343+93	-	268	-	-	653	-	-	-	-	-	-	-	74	879	-	-	-	17	58	138	58
I-290 EASTBOUND	338+25	TO	340+60	-	610	-	-	132	-	-	-	-	-	-	-	199	518	-	-	-	199	255	102	-
TOTAL				5	1548	186	1.9	1268	1444	1297	0.8	2.8	164	109	0.1	1623	2852	59	2895.8	1112.8	32	297	573	201
ROUNDED TOTAL				5	1548	186	1.9	1268	1444	1297	0.8	3	164	109	0.1	1624	2853	59	2896.0	1113.0	32	297	574	201

LOCATION	STATION	TO	STATION	CONCRETE CURB, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 24	CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT	CONCRETE BARRIER TRANSITION	CONCRETE BARRIER BASE	SHOULDER RUMBLE STRIPS, 16 INCH	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	CHAIN LINK FENCE, 6'	BARRIER WALL MARKERS, TYPE C	COARSE SAND PLACEMENT	DETECTABLE WARNINGS (SPECIAL)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL)	CONCRETE BARRIER WALL (SPECIAL)	BICYCLE RACKS	TEMPORARY PAVEMENT	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)
				FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	FOOT	EACH	SO YD	SO FT	FOOT	FOOT	EACH	SO YD
MORGAN STREET	3602+45	TO	3606+85	46.0	-	-	-	-	-	-	-	-	323	82	472.7	-	1	-	49
MORGAN STREET - UIC DRIVEWAY	3602+88	TO	3603+20	26.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN STREET - CONDO DRIVEWAY	3606+35	TO	3606+52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONGRESS PARKWAY	3305+50	TO	3306+63	5.1	-	-	-	-	-	-	115	-	103	16	317.2	-	-	-	-
MORGAN STREET EXIT RAMP	1002+45	TO	1005+95	-	296.2	275	-	275	-	1	-	6	-	-	-	-	-	298	-
I-290 WESTBOUND	338+11	TO	343+93	-	-	-	60	190	427	-	-	6	-	-	-	130	-	615	-
I-290 EASTBOUND	338+25	TO	340+60	-	-	134	60	321	60	-	-	4	-	-	-	127	-	131	-
TOTAL				77.6	296.2	409	120	786	487	1	115	16	426	98	789.9	257	1	1044	49
ROUNDED TOTAL				78.0	296.5	409	120	787	487	1	115	16	426	98	790.0	257	1	1044	49

**NOTES:**

1. TEMPORARY PAVEMENT FOR THE MORGAN STREET EXIT RAMP WILL BE PORTLAND CEMENT CONCRETE PAVEMENT 8" AND ALL THE SHOULDERS ALONG I-290 WILL BE PORTLAND CEMENT CONCRETE PAVEMENT 12".
2. SEE ADDITIONAL QUANTITIES IN THE ROADWAY DETAIL SHEET 6 FOR THE FLUTED KNEE WALL (SPECIAL) ALONG CONGRESS PARKWAY.



D:\6629\sh-t-Schedule-02  
 USER NAME = CHINA  
 PLOT SCALE = 50.0000 / 1"  
 PLOT DATE = 7/14/2013

DESIGNED - AFC  
 DRAWN - AFC  
 CHECKED - DBM  
 DATE - 6/17/2013

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	32
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

**EARTHWORK QUANTITIES**

FROM STA.	TO STA.	EARTH EXCAVATION	TOTAL EARTH EXCAVATION, ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
		CU YD	CU YD	CU YD	CU YD	CU YD
		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<b>MORGAN ST. ("P-MOR-CL")</b>						
3601+95.00	3602+00.00	3.92	3.33	0.02	3.31	-3.31
3602+00.00	3602+50.00	26.83	22.81	4.09	18.72	-18.72
3602+50.00	3602+98.39	20.26	17.22	28.89	-11.67	11.67
<b>BRIDGE BREAK</b>						
3605+99.56	3606+29.09	34.45	29.28	0.13	29.15	-29.15
3606+29.09	3606+60.00	23.07	19.61	0.36	19.25	-19.25
3606+60.00	3606+85.00	11.92	10.14	0.18	9.96	-9.96
<b>SUB-TOTAL</b>		<b>120.45</b>	<b>102.38</b>	<b>33.66</b>	<b>68.73</b>	<b>-68.73</b>
<b>CONGRESS PKWY. ("P-IKE-WB")</b>						
5249+00.00	5249+42.75	0.00	0.00	25.91	-25.91	25.91
5249+42.75	5249+47.00	0.00	0.00	4.76	-4.76	4.76
5249+47.00	5249+50.00	0.00	0.00	3.04	-3.04	3.04
5249+50.00	5249+55.35	0.00	0.00	5.19	-5.19	5.19
5249+55.35	5249+70.30	0.00	0.00	12.59	-12.59	12.59
5249+70.30	5250+00.00	0.00	0.00	12.32	-12.32	12.32
5250+00.00	5250+29.99	3.39	2.88	2.48	0.40	-0.40
5250+29.99	5250+33.57	0.86	0.73	0.20	0.53	-0.53
5250+33.57	5250+50.00	5.21	4.43	0.27	4.17	-4.17
5250+50.00	5250+83.46	13.72	11.66	0.00	11.66	-11.66
5250+83.46	5251+00.00	3.66	3.11	0.00	3.11	-3.11
<b>SUB-TOTAL</b>		<b>26.84</b>	<b>22.81</b>	<b>66.75</b>	<b>-43.93</b>	<b>43.93</b>

**NOTES:**

- THIS IS NOT A PAY ITEM
- 1. ESTIMATED SHRINKAGE FACTOR = 15%
- 2. PER ILLINOIS BDE MANUAL, EARTH EXCAVATION AND FURNISH EXCAVATION IS ROUNDED TO THE NEAREST 5 CU YD.

FROM STA.	TO STA.	EARTH EXCAVATION	TOTAL EARTH EXCAVATION, ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
		CU YD	CU YD	CU YD	CU YD	CU YD
		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<b>I-290 WB / EB ("P-IKE-WB")</b>						
5242+50.00	5242+92.48	0.00	0.00	0.00	0.00	0.00
5242+92.48	5243+00.00	0.00	0.00	0.00	0.00	0.00
5243+00.00	5243+13.67	0.00	0.00	0.00	0.00	0.00
5243+13.67	5243+24.56	0.00	0.00	0.00	0.00	0.00
5243+24.56	5243+50.00	0.00	0.00	0.00	0.00	0.00
5243+50.00	5243+74.55	0.00	0.00	0.00	0.00	0.00
5243+74.55	5244+00.00	0.00	0.00	0.00	0.00	0.00
5244+00.00	5244+39.94	0.00	0.00	0.00	0.00	0.00
5244+39.94	5244+50.00	0.00	0.00	0.00	0.00	0.00
5244+50.00	5244+66.10	0.00	0.00	0.00	0.00	0.00
5244+66.10	5245+00.00	0.00	0.00	0.00	0.00	0.00
5245+00.00	5245+35.92	0.00	0.00	0.00	0.00	0.00
5245+35.92	5245+50.00	0.00	0.00	0.00	0.00	0.00
5245+50.00	5246+00.00	37.65	32.00	1.31	30.69	-30.69
5246+00.00	5246+12.20	17.92	15.23	0.63	14.59	-14.59
5246+12.20	5246+50.00	56.90	48.36	1.62	46.75	-46.75
5246+50.00	5247+00.00	66.49	56.51	1.58	54.93	-54.93
5247+00.00	5247+50.00	57.77	49.11	1.42	47.69	-47.69
5247+50.00	5247+98.78	54.53	46.35	4.33	42.02	-42.02
5247+98.78	5248+00.00	1.22	1.04	0.23	0.81	-0.81
5248+00.00	5248+27.20	29.26	24.87	6.40	18.46	-18.46
5248+27.20	5248+50.00	25.72	21.86	8.03	13.83	-13.83
5248+50.00	5248+56.52	7.37	6.27	3.00	3.27	-3.27
5248+56.52	5248+77.73	22.48	19.11	57.31	-38.20	38.20
5248+77.73	5248+83.62	5.52	4.69	37.97	-33.27	33.27
5248+83.62	5248+93.97	10.86	9.23	87.14	-77.91	77.91
5248+93.97	5249+00.00	3.56	3.02	51.24	-48.21	48.21
5249+00.00	5249+42.75	0.00	0.00	439.00	-439.00	439.00
5249+42.75	5249+47.00	3.99	3.39	51.38	-47.98	47.98
5249+47.00	5249+50.00	6.28	5.34	35.63	-30.29	30.29
5249+50.00	5249+55.35	13.81	11.74	67.38	-55.64	55.64
5249+55.35	5249+70.30	53.65	45.60	124.19	-78.59	78.59
5249+70.30	5250+00.00	91.19	77.51	85.39	-7.88	7.88
5250+00.00	5250+29.99	31.09	26.43	50.64	-24.21	24.21
5250+29.99	5250+33.57	0.86	0.73	3.48	-2.75	2.75
5250+33.57	5250+50.00	3.32	2.82	10.32	-7.49	7.49
5250+50.00	5250+83.46	3.01	2.55	11.58	-9.03	9.03
5250+83.46	5251+00.00	0.00	0.00	2.66	-2.66	2.66
<b>SUB-TOTAL</b>		<b>604.43</b>	<b>513.76</b>	<b>1143.85</b>	<b>-630.09</b>	<b>630.09</b>
<b>TOTAL</b>		<b>752</b>	<b>639</b>	<b>1244</b>	<b>-605</b>	<b>605</b>
<b>ROUNDED TOTAL</b>		<b>755</b>				<b>610</b>



D:\6025\94\290\94-007R\Schedule-03  
 USER NAME: chris  
 PLOT SCALE: 50,0000 / in.  
 PLOT DATE: 7/11/2013

DESIGNED - KAM  
 DRAWN - KAM  
 CHECKED - AFC  
 DATE - 6/17/2013  
 REVISED - 7/19/2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**

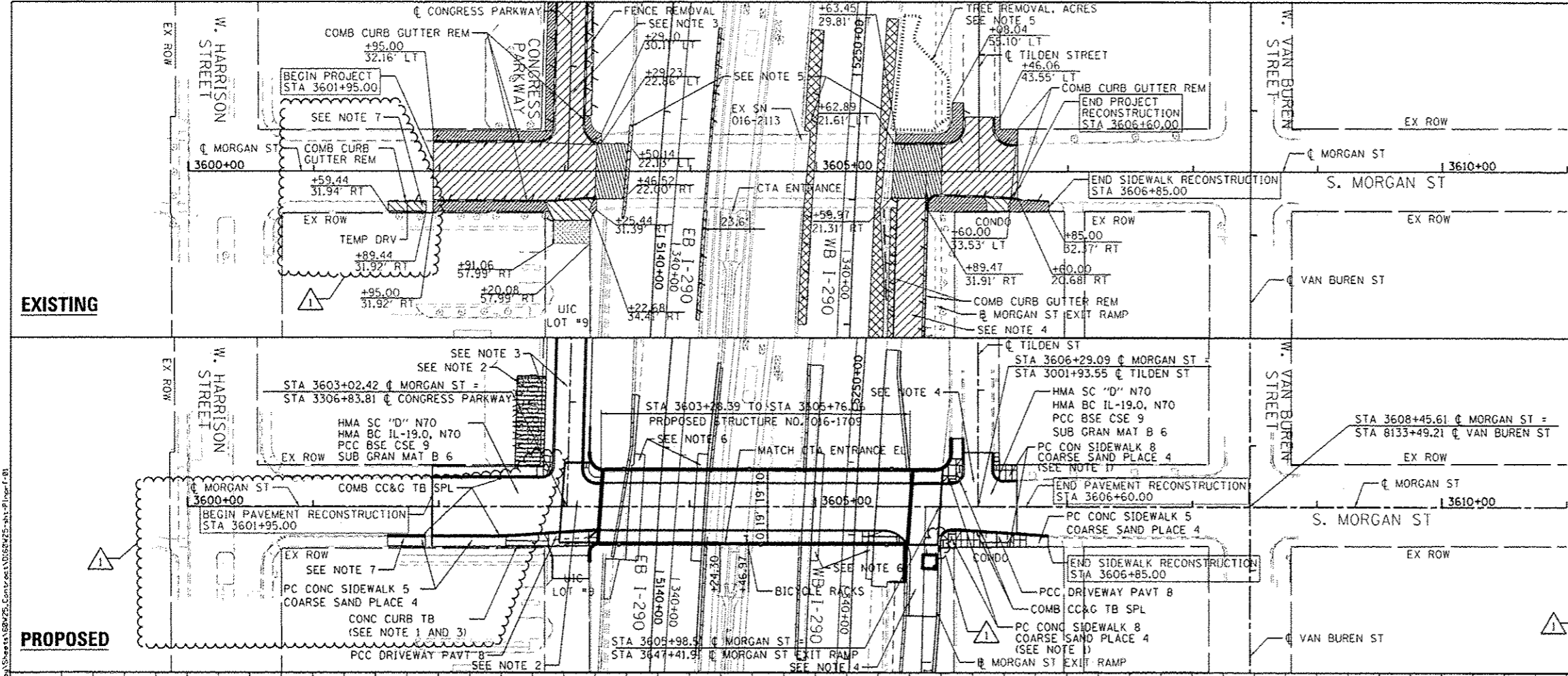
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RITE SECTION COUNTY TOTAL SHEETS SHEET NO.  
 90/94/290 2013-007R COOK 317 33  
 CONTRACT NO. 60W25  
 ILLINOIS FED. AID PROJECT



DATE	
BY	
REVISION	
NO.	
DATE	
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### PAVEMENT REMOVAL LEGEND

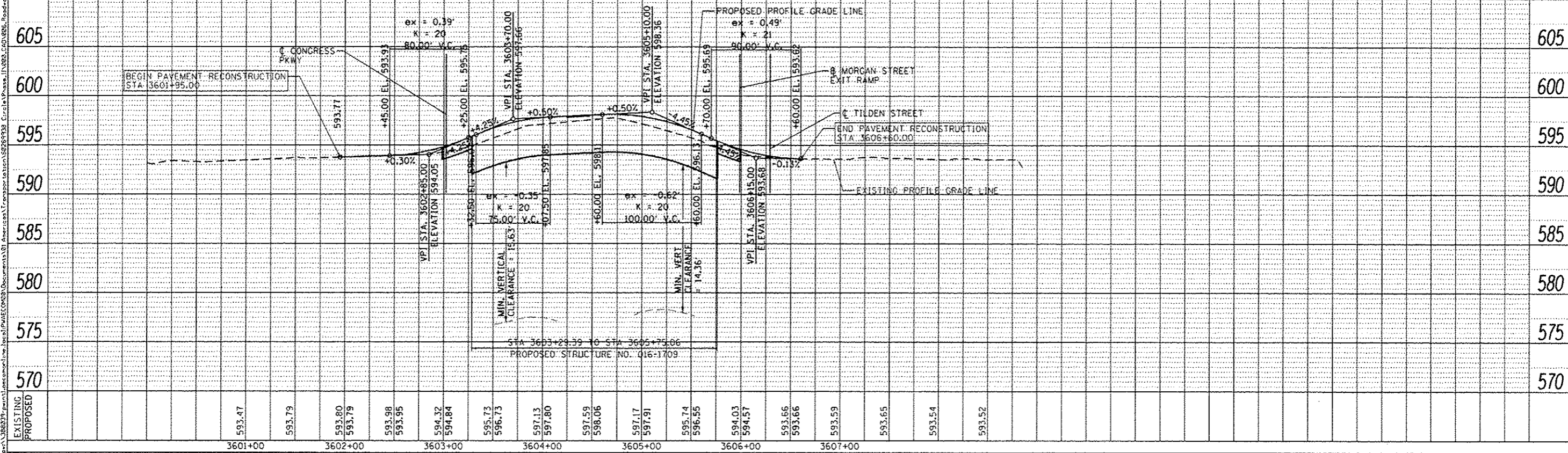
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- SIDEWALK REMOVAL
- PARKING LOT PAVEMENT REMOVAL
- LINEAR REMOVAL
- TREE REMOVAL, ACRES

GRAPHIC SCALE  
0 50 100 FEET

### NOTES

1. SEE CURB RAMP DETAIL FOR ADA RAMP INFORMATION.
2. SEE INTERSECTION DETAIL FOR INTERSECTION TRANSITION INFORMATION.
3. SEE PLAN AND PROFILE - CONGRESS PARKWAY / UIC DRIVEWAY FOR ADDITIONAL INFORMATION.
4. SEE PLAN AND PROFILE - MORGAN SHEET EXIT RAMP AND TILDEN STREET FOR ADDITIONAL INFORMATION.
5. SEE I-290 REMOVAL PLAN FOR ADDITIONAL INFORMATION.
6. SEE I-290 ROADWAY PLAN FOR ADDITIONAL INFORMATION.
7. THE LOCATION OF THE UIC TEMPORARY DRIVEWAY ENTRANCE SHALL BE VERIFIED IN THE FIELD FOR REMOVAL. THE LOCATION PROVIDED IN THESE PLANS ARE APPROXIMATE. THE DRIVEWAY ENTRANCE WILL BE REPLACED WITH PROPOSED CEMENT CONCRETE SIDEWALK 5 INCH AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B (SPECIAL).

GRAPHIC SCALE  
0 50 100 FEET

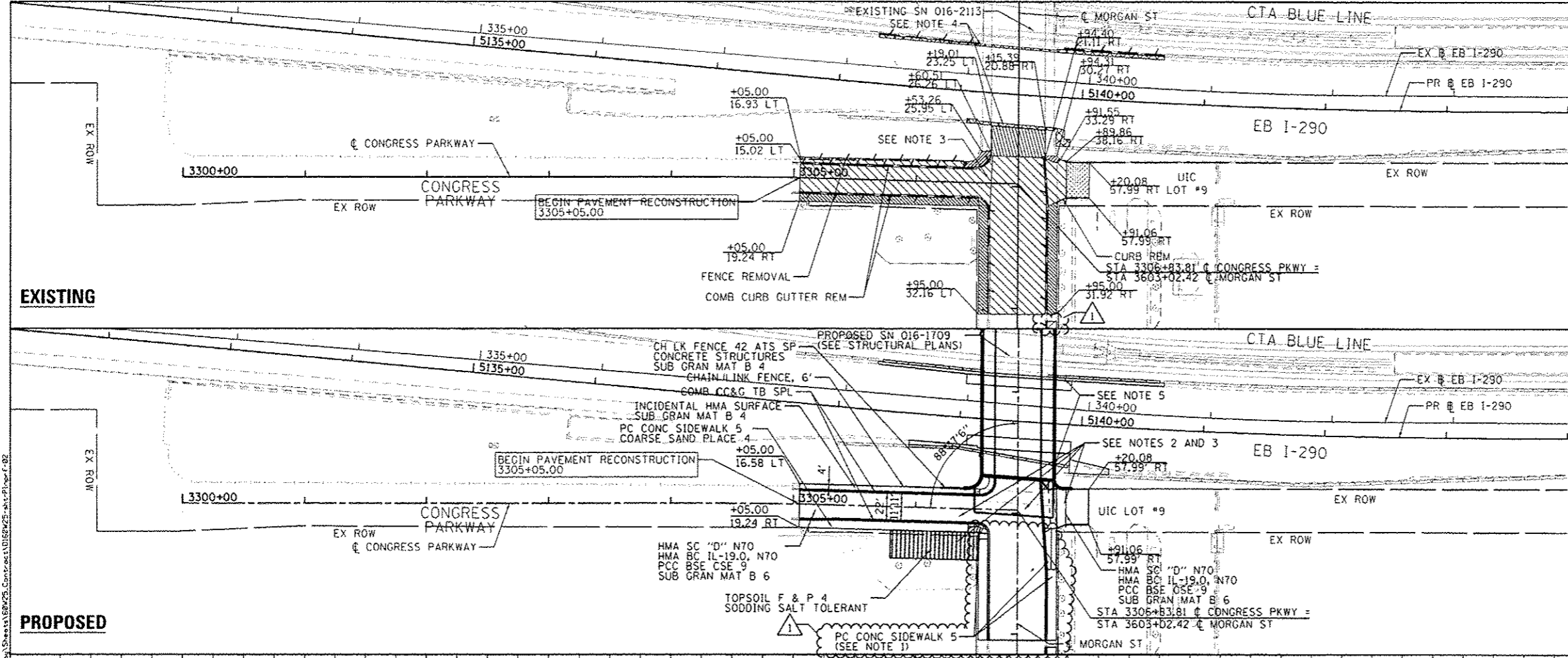


<b>AECOM</b> 303 EAST MADISON DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 375-7100 FAX: (312) 375-8800	0168W25-sha-P1-10-1-01 USER NAME: chliu PLOT SCALE: 50,0000 / 1"= PLOT DATE: 7/11/2013	DESIGNED - AFC DRAWN - AFC CHECKED - DBM DATE - 6/17/2013	REVISED - 7/19/2013 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE - MORGAN STREET</b> SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 42 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
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DATE	
BY	
PLAN	
DATE	
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PROFILE	
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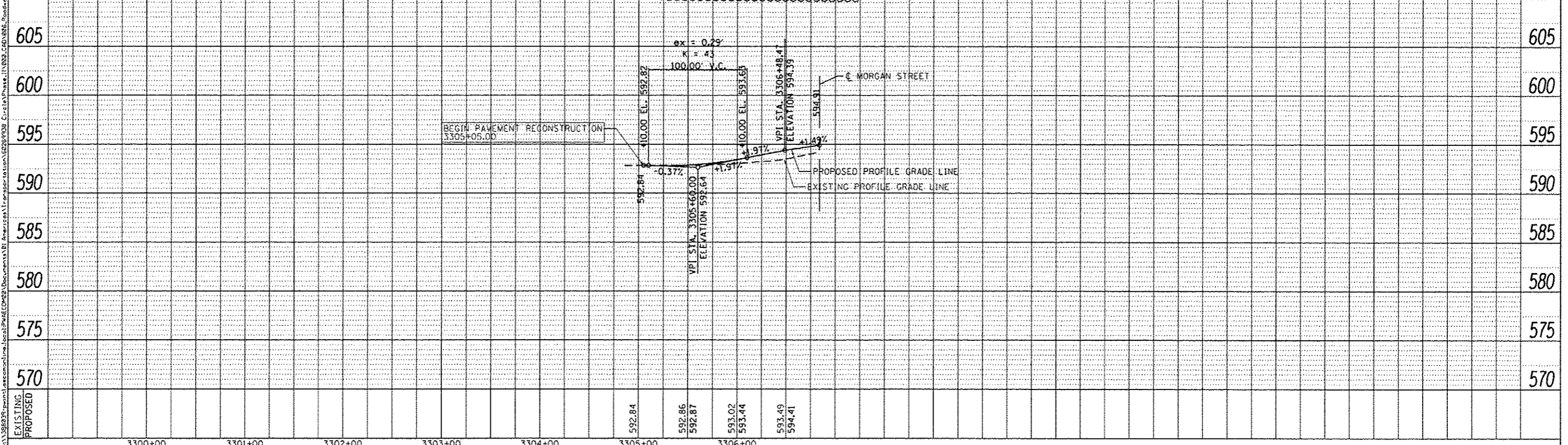


### PAVEMENT REMOVAL LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- SIDEWALK REMOVAL
- PARKING LOT PAVEMENT REMOVAL
- LINEAR REMOVAL
- TREE REMOVAL, ACRES

GRAPHIC SCALE  
0 50 100  
FEET

- ### NOTES
- SEE CURB RAMP DETAIL FOR ADA RAMP INFORMATION.
  - SEE INTERSECTION DETAIL FOR INTERSECTION TRANSITION INFORMATION.
  - SEE PLAN & PROFILE - MORGAN STREET FOR ADDITIONAL INFORMATION.
  - SEE I-290 REMOVAL PLAN FOR ADDITIONAL INFORMATION.
  - SEE I-290 ROADWAY PLAN FOR ADDITIONAL INFORMATION.



<p>303 EAST WASHINGTON DRIVE, SUITE 1400 CHICAGO, IL 60601-5214 PHONE: (312) 373-7100 FAX: (312) 373-6400</p>	0168W25-sha-p1-prof-02 USER NAME = chris PLOT SCALE = 50.0000 1" = 50' PLOT DATE = 7/11/2013	DESIGNED - AFC DRAWN - AFC CHECKED - DBM DATE - 6/17/2013	REVISED - $\Delta$ 7/19/2013 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE -</b> <b>CONGRESS PARKWAY / UIC DRIVEWAY</b> SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 43 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
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**STAGING NARRATIVE**

**STAGE 1**

MAINTENANCE OF TRAFFIC ALONG WB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE NORTH PIER. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- CLOSE THE EXIT RAMP TO MORGAN STREET ACCORDING TO TC-08. RAMP TO REMAIN CLOSED UNTIL THE COMPLETION OF THE PROJECT.
- BEAM DEMOLITION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS DURING THE ALLOWABLE HOURS LISTED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ALONG EB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE SOUTH PIER. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- BEAM DEMOLITION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS DURING THE ALLOWABLE HOURS LISTED IN "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ON LOCAL ROADS

- TRAFFIC UTILIZING NB AND SB MORGAN STREET WILL BE DETOURED USING VAN BUREN STREET TO RACINE AVE AND RACINE AVE TO HARRISON STREET AND VICE VERSA (SEE DETOUR PLAN). NO VEHICULAR TRAFFIC IS ALLOWED ON MORGAN STREET.
- TRAFFIC UTILIZING MORGAN STREET EXIT WILL BE DETOURED USING THE ASHLAND AVE EXIT (SEE DETOUR PLAN). NORTHBOUND TRAFFIC WILL USE NB ASHLAND AVE TO EB JACKSON BLVD AND SOUTHBOUND TRAFFIC WILL USE SB ASHLAND AVE TO WB HARRISON AVE.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE TO UIC PARKING LOT #9 AT ALL TIMES UTILIZING THE TEMPORARY DRIVEWAY.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE AT 933 W. VAN BUREN STREET PARKING GARAGE NORTH OF THE MORGAN STREET AND TILDEN STREET INTERSECTION AT ALL TIMES.
- MAINTAIN TRAFFIC ALONG CONGRESS PARKWAY FROM THE UIC PAVILION PARKING LOT AT ALL TIMES.
- COMPLETELY CLOSE OFF ALL ACCESS TO SIDEWALK ON THE MORGAN STREET BRIDGE DURING CONSTRUCTION OF THE EAST HALF OF THE BRIDGE.
- PROVIDE SIDEWALK CLOSURES AT BOTH NORTH AND SOUTH SIDES OF THE MORGAN STREET BRIDGE. SIDEWALK CLOSURE SHALL BE PER STANDARD 701801.
- FOR THE CLOSURE OF THE MORGAN STREET CTA STATION, PROVIDE BARRICADES AND ADVANCE STREET LEVEL SIGNS ON SIDEWALKS (SEE DETOUR PLAN). DETOUR FOR THE MORGAN STREET CTA STATION AT THE ENTRANCE AND PLATFORM IS AT THE DISCRETION OF THE CTA.

**STAGE 1**

CONSTRUCTION TO BE COMPLETED IN STAGE 1

- INSTALL TEMPORARY CONCRETE BARRIER WALL AS SHOWN IN THE STRUCTURAL PLANS TO LOCATE CONSTRUCTION WORK ZONE ON THE EAST HALF OF EXISTING MORGAN STREET BRIDGE.
- INSTALL PROPOSED OVERHEAD BRIDGE MOUNTED SIGN ON RACINE AVE BRIDGE STRUCTURE OVER WB I-290 PRIOR TO THE REMOVAL OF THE EXISTING OVERHEAD BRIDGE MOUNTED SIGN ON MORGAN ST BRIDGE STRUCTURE. INSTALLATION SHALL BE COMPLETED DURING NON-PEAK HOURS AND SPECIFIED IN THE OVERHEAD SIGN PANEL PLACEMENT AND DETAILS AND BRIDGE MOUNT SIGN STRUCTURE PLANS.
- LOCATE TUNNEL, CHICAGO AND BULKHEAD TUNNEL, CHICAGO WORK SHALL BE COMPLETED PRIOR TO RISER SHAFT EXCAVATION.
- COORDINATE WITH COMED CONTRACTOR REMOVING AND REPLACING EXISTING COMED CONDUITS ON EAST HALF OF BRIDGE. THE REMOVAL AND REPLACEMENT OF THE EXISTING UTILITY SHALL BE COORDINATED AND AT THE DISCRETION OF COMED.
- REMOVE EXISTING MORGAN STREET BRIDGE SUPERSTRUCTURE ON THE EAST SIDE OF STAGE REMOVAL LINE AS SHOWN IN STRUCTURAL PLANS. REMOVAL INCLUDES SUPERSTRUCTURE AND APPROACH SLAB WITHIN LIMITS AS SPECIFIED IN THE STRUCTURAL PLANS AND SPECIAL PROVISIONS. REMOVE ANY ABANDONED CTA FOUNDATIONS INTERFERING WITH THE PROPOSED NORTH ABUTMENT. APPROACH CONSTRUCTION AND PROPOSED UTILITY WORK. SUPERSTRUCTURE REMOVAL MUST BE PLANNED TO ACCOMMODATE THE WORK INVOLVED WITH TEMPORARY SUPPORT OF EXISTING COMED CONDUITS.
- INSTALL TEMPORARY SHORING TOWER, TEMPORARY TIMBER BLOCKS FOOTING AT BOTH APPROACHES AND THE EAST TEMPORARY SUPPORT BEAMS PER COMED CONDUIT SUPPORT PLANS. THE TEMPORARY SHORING TOWER, TIMBER BLOCKS FOOTING AND SUPPORT BEAM TO BE INSTALLED IN COORDINATION WITH COMED.
- THE DEMOLITION AND RECONSTRUCTION OF SUPERSTRUCTURE SHALL BE COORDINATED WITH THE CTA. CTA TRACK ACCESS IS ALLOWED DURING OFF-PEAK HOURS ONLY. ALL CTA TRACK ACCESS IS SHALL BE COORDINATED AND PERFORMED IN ACCORDANCE TO THE DISCRETION OF THE CTA. REFER TO "CTA FLAGGING AND COORDINATION" SPECIAL PROVISION. PARTIALLY REMOVE THE EXISTING MORGAN STREET EXIT.
- INSTALL BRACED EXCAVATION SYSTEM AT REQUIRED LOCATIONS PER STRUCTURAL PLANS.
- REMOVE, RELOCATE AND RECONSTRUCT THE WATER MAIN CONNECTION PIPES AND RISER SHAFT. THE WATER MAIN SHUTOFF SHALL BE AS SPECIFIED IN THE WATER MAIN REPLACEMENT AND STRUCTURAL PLANS AND PER THE SPECIAL PROVISIONS.
- COMED TEMPORARY CONDUIT SUPPORT STRUCTURE MUST BE PROTECTED DURING DRILLED SHAFT CONSTRUCTION. COORDINATE WITH COMED CONTRACTOR TO ENSURE PROPER PROTECTION FOR BOTH COMED CONDUITS AND CONTRACTOR'S WORKSITE.
- DRILL AND CAST DRILLED SHAFTS FOR ABUTMENTS AND WINGWALLS AS SHOWN IN FOOTING LAYOUT.
- CONSTRUCT THE NORTH AND SOUTH ABUTMENTS AND WINGWALLS AS SHOWN IN STRUCTURAL PLANS.
- CONSTRUCT RETAINING WALL 5 (SN 016-1724) LIMITS AS SHOWN IN THE STRUCTURAL PLANS. THE CONSTRUCTION OF RETAINING WALL 5 (SN 016-1724) SHOULD BE COORDINATED WITH THE RISER SHAFT AND WATER MAIN CONNECTION CONSTRUCTION.
- REMOVE THE EXISTING RETAINING WALL PER STRUCTURAL PLANS.
- BACKFILL THE BRACED EXCAVATION ALONG WB I-290 AFTER THE COMPLETION OF WATER MAIN CONNECTION PIPES, RISER SHAFT, AND RETAINING WALL 5 (SN 016-1724) PER STRUCTURAL PLANS.
- INSTALL THE DRAINAGE STRUCTURE AND PIPE BETWEEN THE RAMP AND GORE AND PATCH PAVEMENT.
- CONSTRUCT TEMPORARY PAVEMENT ALONG OUTSIDE SHOULDER ON WB I-290 IN FRONT OF RETAINING WALL 5 (SN 016-1724).

**STAGE 2**

MAINTENANCE OF TRAFFIC ALONG WB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE NORTH ABUTMENT. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- EXIT RAMP TO MORGAN STREET TO REMAIN CLOSED UNTIL THE COMPLETION OF THE PROJECT.
- BEAM ERECTION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS CLOSING THE ALLOWABLE HOURS LISTED IN THE "KEEPING EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ALONG EB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE SOUTH ABUTMENT. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- BEAM ERECTION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS CLOSING THE ALLOWABLE HOURS LISTED IN THE "KEEPING EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ON LOCAL ROADS

- TRAFFIC UTILIZING NB AND SB MORGAN STREET WILL BE DETOURED USING VAN BUREN STREET TO RACINE AVE AND RACINE AVE TO HARRISON STREET AND VICE VERSA. (SEE DETOUR PLAN). NO VEHICULAR TRAFFIC IS ALLOWED ON MORGAN STREET.
- TRAFFIC UTILIZING MORGAN STREET EXIT WILL BE DETOURED USING THE ASHLAND AVE EXIT. NORTHBOUND TRAFFIC WILL USE NB ASHLAND AVE TO EB JACKSON BLVD AND SOUTHBOUND TRAFFIC WILL USE SB ASHLAND AVE TO WB HARRISON AVE.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE TO UIC PARKING LOT #9 AT ALL TIMES UTILIZING THE TEMPORARY DRIVEWAY.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE AT 933 W. VAN BUREN STREET PARKING GARAGE NORTH OF THE MORGAN STREET AND TILDEN STREET INTERSECTION AT ALL TIMES.
- MAINTAIN TRAFFIC ALONG CONGRESS PARKWAY FROM THE UIC PAVILION PARKING LOT AT ALL TIMES.
- COMPLETELY CLOSE OFF ALL ACCESS TO SIDEWALK ON THE MORGAN STREET BRIDGE DURING CONSTRUCTION OF THE EAST HALF OF THE BRIDGE.
- PROVIDE SIDEWALK CLOSURES AT BOTH NORTH AND SOUTH SIDES OF THE MORGAN STREET BRIDGE. SIDEWALK CLOSURE SHALL BE PER STANDARD 701801.
- FOR THE CLOSURE OF THE MORGAN STREET CTA STATION, PROVIDE BARRICADES AND ADVANCE STREET LEVEL SIGNS ON SIDEWALKS (SEE DETOUR PLAN). DETOUR FOR THE MORGAN STREET CTA STATION AT THE ENTRANCE AND PLATFORM IS AT THE DISCRETION OF THE CTA.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES CONSTRUCTION AND TRAFFIC CONTROL -  
STAGING NARRATIVE**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	50
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

**STAGING NARRATIVE**

**STAGE 2**

CONSTRUCTION TO BE COMPLETED IN STAGE 2

- THE EAST HALF OF THE BRIDGE WILL CONTINUE TO BE CONSTRUCTED.
- REMOVE AND STORE EXISTING OVERHEAD BRIDGE MOUNTED SIGNS ON RACINE AVE BRIDGE STRUCTURE OVER EB I-290. INSTALL TEMPORARY OVERHEAD BRIDGE MOUNTED SIGNS. INSTALLATION SHALL BE COMPLETED DURING NON-PEAK HOURS AND SPECIFIED IN THE OVERHEAD SIGN PANEL PLACEMENT AND DETAILS.
- THE DEMOLITION AND RECONSTRUCTION OF THE EAST HALF OF THE NORTH AND SOUTH PIERS SHALL BE COORDINATED WITH THE CTA. CTA TRACK ACCESS IS ALLOWED DURING OFF-PEAK HOURS ONLY. ALL CTA TRACK ACCESS SHALL BE COORDINATED AND PERFORMED IN ACCORDANCE TO THE DISCRETION OF THE CTA. REFER TO "CTA FLAGGING AND COORDINATION" SPECIAL PROVISION.
- REMOVE MEDIAN CONCRETE BARRIERS ON THE INSIDE SHOULDERS ALONG EB AND WB I-290.
- COMED TEMPORARY CONDUIT SUPPORT STRUCTURE MUST BE PROTECTED DURING DRILLED SHAFT CONSTRUCTION. COORDINATE WITH COMED CONTRACTOR TO ENSURE PROPER PROTECTION FOR BOTH COMED CONDUITS AND CONTRACTOR'S WORKSITE. DRILL AND CAST DRILLED SHAFTS FOR EAST HALF OF PIERS AS SHOWN IN FOOTING LAYOUT.
- CONSTRUCT THE EAST HALF OF THE PIERS 1 (SOUTH) AND 2 (NORTH) AS SHOWN IN STRUCTURAL PLANS.
- ERECT BEAMS 7 THRU 12 AND CONSTRUCT ALL APPURTENANCE SUPERSTRUCTURE WORK UPON COMPLETION OF BEAM ERECTION AS SHOWN IN THE STRUCTURAL PLANS.
- COORDINATE WITH THE COMED CONTRACTOR FOR MODIFICATIONS TO COMED TEMPORARY CONDUIT SUPPORT STRUCTURE. AFTER BEAMS ARE IN PLACE, THE EAST WOOD BOX OF DUCTS ARE TO BE PLACED ON WOOD LAGGING BETWEEN NEW BRIDGE BEAMS AND MUST BE PROTECTED.
- REMOVE EAST COMED TEMPORARY CONDUIT SUPPORT STRUCTURE BEAM.
- CONSTRUCT THE EAST DECK AND PLACE INSERTS IN DECK FOR UTILITY SUPPORT.
- COORDINATE WITH THE COMED CONTRACTOR FOR THE INSTALLATION OF COMED DUCTBANKS AND DUCTS TO THE NEWLY CONSTRUCTED EAST HALF OF THE BRIDGE.
- INSTALL CITY OF CHICAGO CONDUITS.
- CONSTRUCT THE EAST HALF OF THE NORTH AND SOUTH BRIDGE APPROACH PAVEMENT.
- CONSTRUCT THE MORGAN STREET EXIT RAMP. WORK INCLUDES BUT NOT LIMITED TO PAVEMENT, CURB AND GUTTER, DRAINAGE, AND EROSION CONTROL.
- REMOVE AND RECONSTRUCT THE EAST HALF OF MORGAN STREET AND TILDEN STREET INTERSECTION PAVEMENT, SIDEWALK, ADA RAMPS, DRAINAGE, WATER MAIN CONNECTION, TRAFFIC SIGNAL AND CURB AND GUTTER. WORK PERFORMED SHALL BE PER STANDARD 701701.
- REMOVE AND RECONSTRUCT THE EAST HALF OF THE MORGAN STREET AND CONGRESS PARKWAY INTERSECTION PAVEMENT, DRIVEWAY AT UIC PARKING LOT #9, SIDEWALK, ADA RAMPS, DRAINAGE AND CURB AND GUTTER. WORK PERFORMED SHALL BE PER STANDARD 701701.
- INSTALL PROPOSED OVERHEAD BRIDGE MOUNTED SIGN ON MORGAN STREET BRIDGE OVER WB I-290. INSTALLATION SHALL BE COMPLETED DURING NON-PEAK HOURS AND SPECIFIED IN THE OVERHEAD SIGN PANEL PLACEMENT AND DETAILS AND BRIDGE MOUNT SIGN STRUCTURE PLANS.

**STAGE 3**

MAINTENANCE OF TRAFFIC ALONG WB I-290 MAINLINE

- LANE CONFIGURATION IS THE SAME AS STAGE 2.
- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE NORTH ABUTMENT. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- EXIT RAMP TO MORGAN STREET TO REMAIN CLOSED UNTIL THE COMPLETION OF THE PROJECT.
- BEAM DEMOLITION AND ERECTION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS CLOSING THE ALLOWABLE HOURS LISTED IN THE "KEEPING EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ALONG EB I-290 MAINLINE

- LANE CONFIGURATION IS THE SAME AS STAGE 2.
- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE SOUTH ABUTMENT. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- BEAM DEMOLITION AND ERECTION WILL BE COMPLETED UTILIZING A MAXIMUM OF 15 MINUTE FULL STOPS CLOSING THE ALLOWABLE HOURS LISTED IN THE "KEEPING EXPRESSWAY OPEN TO TRAFFIC" SPECIAL PROVISION.

MAINTENANCE OF TRAFFIC ON LOCAL ROADS

- TRAFFIC UTILIZING NB AND SB MORGAN STREET WILL BE DETOURED USING VAN BUREN STREET TO RACINE AVE AND RACINE AVE TO HARRISON STREET AND VICE VERSA. (SEE DETOUR PLAN). NO VEHICULAR TRAFFIC IS ALLOWED ON MORGAN STREET.
- TRAFFIC UTILIZING MORGAN STREET EXIT WILL BE DETOURED USING THE ASHLAND AVE EXIT. NORTHBOUND TRAFFIC WILL USE NB ASHLAND AVE TO EB JACKSON BLVD AND SOUTHBOUND TRAFFIC WILL USE SB ASHLAND AVE TO WB HARRISON AVE.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE TO UIC PARKING LOT #9 AT ALL TIMES UTILIZING THE TEMPORARY DRIVEWAY.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE AT 933 W. VAN BUREN STREET PARKING GARAGE NORTH OF THE MORGAN STREET AND TILDEN STREET INTERSECTION AT ALL TIMES.
- THE CONSTRUCTION OF CONGRESS PARKWAY WILL BE SUB-STAGE TO MAINTAIN 1 LANE OF TRAFFIC ALONG CONGRESS PARKWAY FROM THE UIC PAVILION PARKING LOT AT ALL TIMES.
- ONLY ALLOW PEDESTRIAN ACCESS TO SIDEWALK AND MORGAN STREET CTA STATION ON THE EAST HALF OF THE PREVIOUSLY CONSTRUCTED MORGAN STREET BRIDGE. THE WEST SIDE OF THE SIDEWALK SHALL REMAIN CLOSED AT BOTH NORTH AND SOUTH SIDES OF THE MORGAN STREET BRIDGE. SIDEWALK CLOSURE SHALL BE PER STANDARD 701801.
- OPEN THE SIDEWALK ALONG EAST PORTION OF WORK TO PEDESTRIAN TRAFFIC. SIDEWALK SHALL BE COMPLETE AND CONTINUOUS ALONG THE ENTIRE PROJECT LIMIT IN ORDER TO ALLOW UNINTERRUPTED PEDESTRIAN ACCESS TO THE REOPENED MORGAN STREET ENTRANCE TO THE CTA BLUE LINE STATION. THE CONTRACTOR SHALL INCLUDE APPROPRIATE PROTECTIONS FOR PEDESTRIANS WITHIN THE WORK ZONE.

**STAGE 3**

CONSTRUCTION TO BE COMPLETED IN STAGE 3

- INSTALL TEMPORARY CONCRETE BARRIER WALL ON THE PREVIOUSLY CONSTRUCTED EAST HALF OF THE BRIDGE AS SHOWN IN THE STRUCTURAL PLANS.
- COORDINATE WITH COMED CONTRACTOR REMOVING AND REPLACING EXISTING COMED CONDUITS ON WEST HALF OF BRIDGE. THE REMOVAL AND REPLACEMENT OF THE EXISTING UTILITY SHALL BE COORDINATED AND AT THE DISCRETION OF COMED.
- REMOVE EXISTING MORGAN STREET BRIDGE ON THE WEST SIDE OF STAGE REMOVAL LINE AS SHOWN IN STRUCTURAL PLANS. REMOVAL INCLUDES SUPERSTRUCTURE, PIERS, FOOTING, AND/OR PILES WITHIN LIMITS AS SPECIFIED IN THE STRUCTURAL PLANS AND SPECIAL PROVISIONS. REMOVE ANY ABANDONED CTA FOUNDATIONS INTERFERING WITH THE PROPOSED NORTH ABUTMENT, APPROACH CONSTRUCTION AND PROPOSED UTILITY WORK. SUPERSTRUCTURE REMOVAL MUST BE PLANNED TO ACCOMMODATE THE WORK INVOLVED WITH TEMPORARY SUPPORT OF EXISTING COMED CONDUITS.
- INSTALL THE WEST TEMPORARY SUPPORT BEAMS AND TIMBER BLOCKS FOOTING PER COMED CONDUIT SUPPORT PLANS AND IN COORDINATION WITH COMED.
- COMED TEMPORARY CONDUIT SUPPORT STRUCTURE MUST BE PROTECTED DURING DRILLED SHAFT CONSTRUCTION. COORDINATE WITH COMED CONTRACTOR TO ENSURE PROPER PROTECTION FOR BOTH COMED CONDUITS AND CONTRACTOR'S WORKSITE. DRILL AND CAST DRILLED SHAFTS FOR WEST HALF OF PIERS AS SHOWN IN FOOTING LAYOUT.
- CONSTRUCT THE REMAINING WEST HALF OF THE PIERS 1 (SOUTH) AND 2 (NORTH) AS SHOWN IN STRUCTURAL PLANS.
- ERECT BEAMS 1 THRU 6 AND CONSTRUCT ALL APPURTENANCE SUPERSTRUCTURE WORK UPON COMPLETION OF BEAM ERECTION AS SHOWN IN THE STRUCTURAL PLANS.
- COORDINATE WITH THE COMED CONTRACTOR FOR MODIFICATIONS TO COMED TEMPORARY CONDUIT SUPPORT STRUCTURE. AFTER BEAMS ARE IN PLACE, THE WEST WOOD BOX OF DUCTS ARE TO BE PLACED ON WOOD LAGGING BETWEEN NEW BRIDGE BEAMS AND MUST BE PROTECTED.
- REMOVE WEST COMED TEMPORARY CONDUIT SUPPORT STRUCTURE BEAM.
- CONSTRUCT THE WEST DECK AND PLACE INSERTS IN DECK FOR UTILITY SUPPORT.
- COORDINATE WITH THE COMED CONTRACTOR FOR THE INSTALLATION OF THE COMED DUCTBANKS AND DUCTS TO THE NEWLY CONSTRUCTED WEST HALF OF THE BRIDGE.
- INSTALL PROPOSED OVERHEAD BRIDGE MOUNTED SIGN STRUCTURE ON MORGAN STREET BRIDGE OVER EB I-290. INSTALLATION SHALL BE COMPLETED DURING NON-PEAK HOURS AND SHOWN IN BRIDGE MOUNT SIGN STRUCTURE PLANS.
- CONSTRUCT THE WEST HALF OF THE NORTH AND SOUTH BRIDGE APPROACH PAVEMENT.
- REPLACE CONCRETE BARRIER WALL (SPECIAL) AND PROVIDE PATCHING ALONG THE INSIDE SHOULDERS ALONG EB AND WB I-290. WORK SHALL BE COMPLETED DURING NON-PEAK HOURS UTILIZING NIGHT TIME CLOSURES AS REQUIRED. CTA TRACK ACCESS IS ALLOWED DURING OFF-PEAK HOURS ONLY. ALL CTA TRACK ACCESS SHALL BE COORDINATED AND PERFORMED IN ACCORDANCE TO THE DISCRETION OF THE CTA. REFER TO "CTA FLAGGING AND COORDINATION" SPECIAL PROVISION.
- PROVIDE TEMPORARY PAVEMENT ON THE SOUTHWEST QUADRANT OF CONGRESS PARKWAY TO MAINTAIN AN 11' LANE AT ALL TIMES PRIOR TO CONSTRUCTING THE SOUTH BRIDGE APPROACH PAVEMENT AND NORTHWEST QUADRANT OF MORGAN STREET AND CONGRESS PARKWAY.
- REMOVE AND RECONSTRUCT MORGAN STREET AND CONGRESS PARKWAY INCLUDES BUT NOT LIMITED TO PAVEMENT, SIDEWALK, ADA RAMPS, DRAINAGE, LIGHTING, CURB AND GUTTER AND FLUTED KNEEWALL (SPECIAL) FROM THE WEST END OF PROJECT LIMIT TO THE BEGINNING OF THE CURB RETURN. CONGRESS PARKWAY SHALL BE SUB-STAGE TO MAINTAIN AN 11' LANE AT ALL TIMES. WORK PERFORMED SHALL BE PER STANDARD 701601 AND 701701. REMOVE AND RECONSTRUCT THE MORGAN STREET AND TILDEN STREET INTERSECTION INCLUDES BUT NOT LIMITED TO THE PAVEMENT, SIDEWALK, ADA RAMPS, DRAINAGE, TRAFFIC SIGNAL AND CURB AND GUTTER. TILDEN STREET SHALL BE SUB-STAGE TO MAINTAIN AN 11' LANE AT ALL TIMES. WORK PERFORMED SHALL BE PER STANDARD 701701.
- OPEN NB AND SB MORGAN STREET TO VEHICULAR TRAFFIC.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL -  
STAGING NARRATIVE**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	51
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



**STAGING NARRATIVE**

**STAGE 4**

MAINTENANCE OF TRAFFIC ALONG WB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE NORTH PIER. LANE SHIFTS SHALL BE PER STANDARD TC-09.
- EXIT RAMP TO MORGAN STREET TO REMAIN CLOSED UNTIL THE COMPLETION OF THE PROJECT.

MAINTENANCE OF TRAFFIC ALONG EB I-290 MAINLINE

- MAINTAIN 4 LANES OF TRAFFIC AT ALL TIMES.
- REDUCE ALL 4 LANES OF TRAFFIC TO 11' AND SHIFT LANES TOWARDS THE SOUTH PIER. LANE SHIFTS SHALL BE PER STANDARD TC-09.

MAINTENANCE OF TRAFFIC ON LOCAL ROADS

- NB AND SB MORGAN STREET ARE OPEN TO TRAFFIC.
- TRAFFIC UTILIZING MORGAN STREET EXIT WILL BE DETOURED USING THE ASHLAND AVE EXIT. NORTHBOUND TRAFFIC WILL USE NB ASHLAND AVE TO EB JACKSON BLVD AND SOUTHBOUND TRAFFIC WILL USE SB ASHLAND AVE TO WB HARRISON AVE.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE TO UIC PARKING LOT #9 AT ALL TIMES UTILIZING THE TEMPORARY DRIVEWAY.
- MAINTAIN ACCESS TO DRIVEWAY ENTRANCE AT 933 W. VAN BUREN STREET PARKING GARAGE NORTH OF THE MORGAN STREET AND TILDEN STREET INTERSECTION AT ALL TIMES.
- ALL SIDEWALKS ARE OPEN TO PEDESTRIAN TRAFFIC.

**STAGE 4**

CONSTRUCTION TO BE COMPLETED IN STAGE 4

- REMOVE THE TEMPORARY OVERHEAD BRIDGE MOUNTED SIGNS ON RACINE AVE BRIDGE OVER EB I-290 AND REERECT EXISTING OVERHEAD BRIDGE MOUNTED. INSTALLATION SHALL BE COMPLETED DURING NON-PEAK HOURS AND SPECIFIED IN THE PLANS.
- REMOVE THE TEMPORARY DRIVEWAY AT THE UIC PARKING LOT 9 WHEN THE PERMANENT ENTRANCE IS OPEN TO VEHICULAR TRAFFIC AND RECONSTRUCT THE SIDEWALK AND CURB AND GUTTER. WORK PERFORMED SHALL BE PER STANDARD 701801.
- REMOVE MORGAN STREET BRIDGE NORTH AND SOUTH EXISTING ABUTMENTS. LIMITS OF REMOVALS AS SPECIFIED IN STRUCTURAL PLANS AND/OR SPECIAL PROVISIONS.
- CONSTRUCT THE OUTSIDE SHOULDERS ALONG WB I-290 AND EB I-290.
- INSTALL CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT ALONG THE OUTSIDE SHOULDER OF EB I-290.
- RE-GRADE THE EMBANKMENT ALONG WB AND EB I-290.
- INSTALL ALL ASSOCIATED LIGHTING, UNDERPASS LIGHTING AND ITS AS SPECIFIED IN THE PLANS.
- THE INSTALLATION OF THE ITS INDUCTION LOOPS SHALL UTILIZE NIGHT TIME DUAL LANE CLOSURES. THE TWO INSIDE LANES WILL NEED TO BE CLOSED TOGETHER AND ALTERNATED WITH THE TWO OUTSIDE LANES BEING CLOSED TOGETHER. THE CLOSURES SHALL BE PER STANDARDS 701422 AND/OR 701446 (NOT SHOWN IN STAGING PLANS).
- INSTALL FINAL STRIPING AND SIGNING PER PAVEMENT MARKING AND SIGNING PLANS.
- OPEN MORGAN STREET EXIT RAMP TO VEHICULAR TRAFFIC AFTER ALL WORK COMPLETED.



FILE PATH : C:\Users\A.Chun\OneDrive\Documents\60W25-ah-5\Staging-Notes-04.dgn



DIBW25-ah-5-Staging-Notes-04.dgn	DESIGNED - AFC/PHP	REVISED -  7/19/2013
USER NAME : chun	DRAWN - AFC/PHP	REVISED -
PLOT SCALE : 50.0000 1/ in.	CHECKED - DBM	REVISED -
PLOT DATE : 7/16/2013	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL --  
STAGING NARRATIVE**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	51A
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - SCHEDULE**

LOCATION	SHEET	STATION	TO	STATION	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	SIGN PANEL - TYPE 3	SIGN PANEL OVERLAY	REMOVE SIGN PANEL - TYPE 3	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	TEMPORARY EPOXY PAVEMENT MARKING LETTERS AND SYMBOLS	TEMPORARY EPOXY PAVEMENT MARKING - LINE 4	TEMPORARY EPOXY PAVEMENT MARKING - LINE 5	TEMPORARY EPOXY PAVEMENT MARKING - LINE 8	TEMPORARY EPOXY PAVEMENT MARKING - LINE 24	TEMPORARY CHAIN LINK FENCE WITH SCREENING	REMOVE, STORE, AND RE-ERECT OVERHEAD SIGN PANEL (SPECIAL)
		FOOT		FOOT	SO FT	FOOT	FOOT	EACH	EACH	SO FT	SO FT	SO FT	SO FT	EACH	SO FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH
<b>STAGE 1</b>																						
EB I-290	1	318+00.00	TO	332+00.00	-	-	-	-	-	-	-	-	-	-	-	-	158	-	-	-	-	-
	2	332+00.00	TO	347+00.00	3,438	-	350.0	-	1	-	-	-	-	470	48	-	942	777	-	-	-	-
	3	347+00.00	TO	362+00.00	124	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WB I-290	1	318+00.00	TO	332+00.00	4,062	-	-	-	-	-	-	-	-	-	-	42.0	-	-	-	20	-	-
	2	332+00.00	TO	347+00.00	4,720	-	350.0	-	1	-	-	-	-	936	78	-	2,077	406	-	-	-	-
	3	347+00.00	TO	362+00.00	604	-	-	-	-	-	-	-	-	750	44	-	1,909	-	-	-	-	1
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	9	-	126	8	-	-	-	302	-	-	-
MORGAN STREET	2	3601+00.00	TO	3607+00.00	-	-	325.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>STAGE 2</b>																						
EB I-290	1	318+00.00	TO	332+00.00	256	-	-	-	-	491	-	-	-	56	2	-	108	20	-	-	-	3
	2	332+00.00	TO	347+00.00	4,636	589	12.5	350.0	-	1	-	-	-	473	32	-	1,671	647	-	-	-	-
	3	347+00.00	TO	362+00.00	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WB I-290	1	318+00.00	TO	332+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	332+00.00	TO	347+00.00	7,360	813	-	350.0	-	1	-	-	-	209	16	-	2828	852	-	-	-	-
	3	347+00.00	TO	362+00.00	1,238	637	-	-	-	-	-	-	-	2	2	-	246	52	-	-	-	-
	4	362+00.00	TO	368+00.00	-	101	-	-	-	-	-	-	-	-	-	-	-	-	321	-	-	-
MORGAN STREET	2	3601+00.00	TO	3607+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>STAGE 3</b>																						
EB I-290	1	318+00.00	TO	332+00.00	-	-	-	-	-	-	-	-	491	-	-	-	-	-	-	-	-	-
	2	332+00.00	TO	347+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	347+00.00	TO	362+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WB I-290	1	318+00.00	TO	332+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	332+00.00	TO	347+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	347+00.00	TO	362+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN STREET	2	3601+00.00	TO	3607+00.00	-	-	287.5	325.0	-	-	-	-	-	-	-	-	-	-	-	-	274	-
<b>STAGE 4</b>																						
EB I-290	1	318+00.00	TO	332+00.00	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	332+00.00	TO	347+00.00	3,438	773	-	350	-	1	-	-	-	-	-	-	942	777	-	-	-	-
	3	347+00.00	TO	362+00.00	124	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WB I-290	1	318+00.00	TO	332+00.00	4,062	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	332+00.00	TO	347+00.00	4,720	1227	-	350	-	1	-	-	-	-	-	-	2,077	406	-	-	-	-
	3	347+00.00	TO	362+00.00	604	206	-	-	-	-	-	-	-	-	-	-	1,909	-	-	-	-	-
	4	362+00.00	TO	368+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	302	-	-	-
MORGAN STREET	2	3601+00.00	TO	3607+00.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>					39,386	4,452	1,325	1,725	2	4	491	9	491	3,022	230	42.0	14,867	4,061	925	20	274	4

**NOTES:**

1. TRAFFIC CONTROL AND LANE CONFIGURATION FOR STAGES 2 AND 3 ARE THE SAME.
2. SEE STAGE CONSTRUCTION OF STRUCTURE NO. 016-1709.
3. SEE STAGE CONSTRUCTION OF COMED MORGAN STREET CONDUIT SUPPORT PLANS.
4. ADDITIONAL "SIGN PANEL - TYPE 3" AND "REMOVE SIGN PANEL - TYPE 3" QUANTITY PROVIDED ON THE SIGNING SCHEDULE.



D:\6025-ent-Staging-Schedule-01.dgn  
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 PLOT SCALE = 50.0000 / 1 in.  
 PLOT DATE = 7/16/2013

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 DRAWN - AFC  
 CHECKED - DBM  
 DATE - 6/17/2013  
 REVISED - 7/19/2013  
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 REVISED -  
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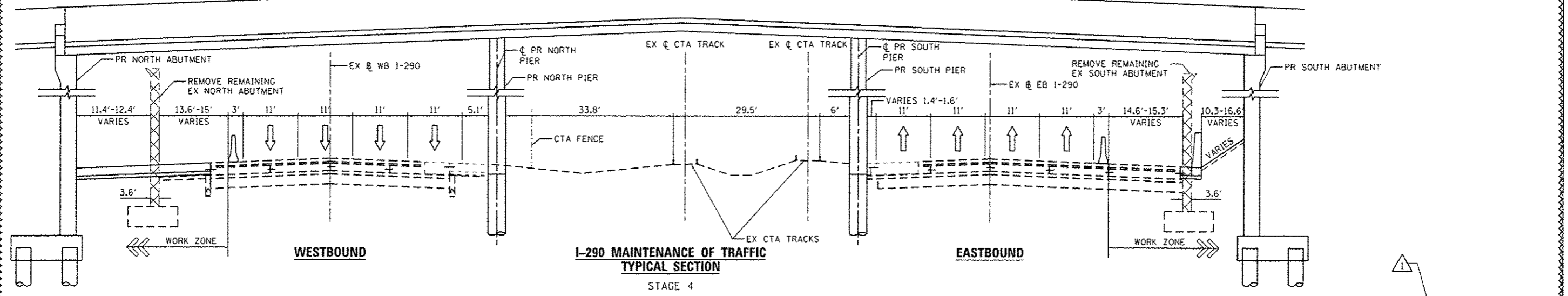
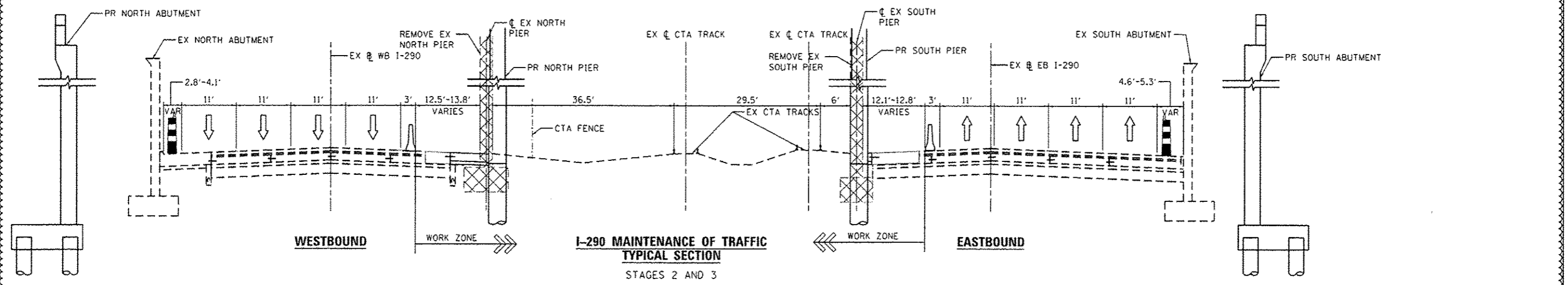
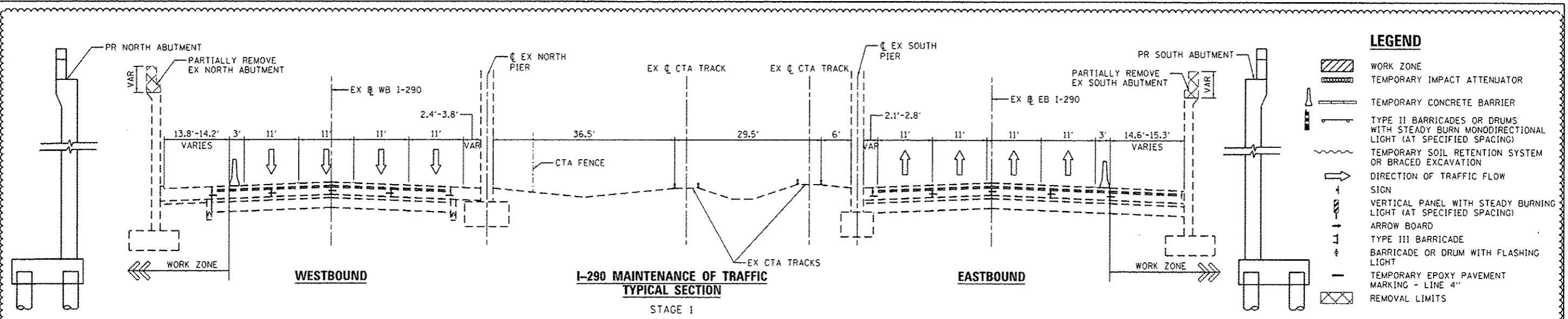
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL - SCHEDULE**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 52
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	





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 PLOT DATE: 7/16/2013

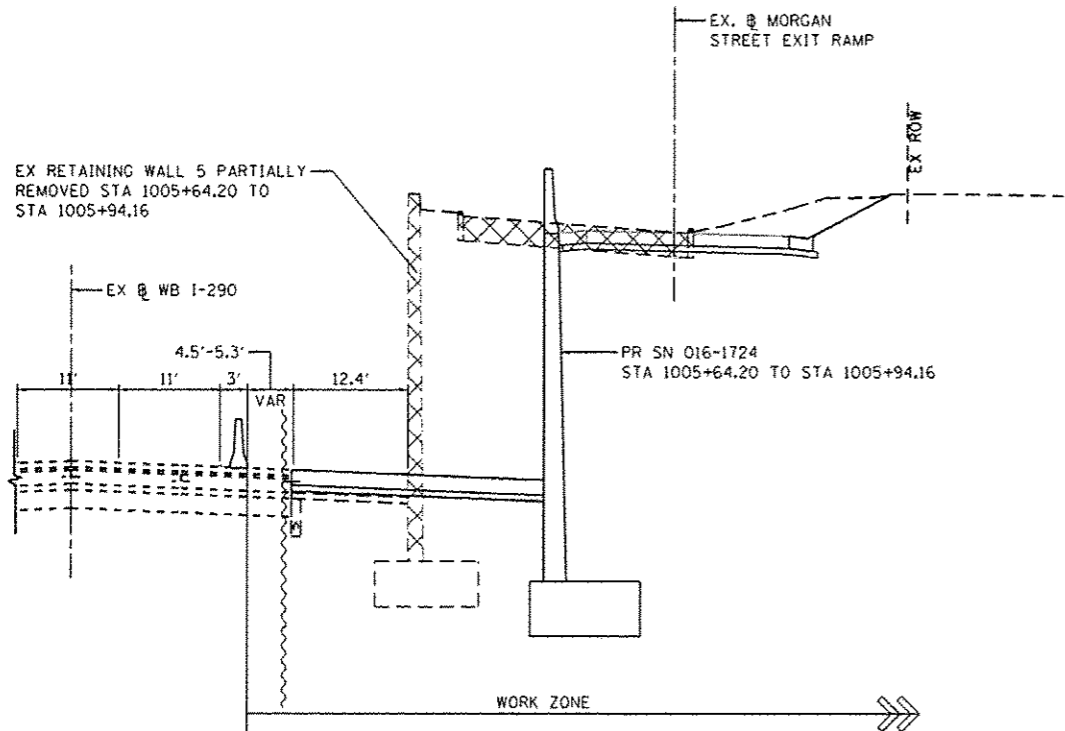
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 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
 TYPICAL SECTIONS

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

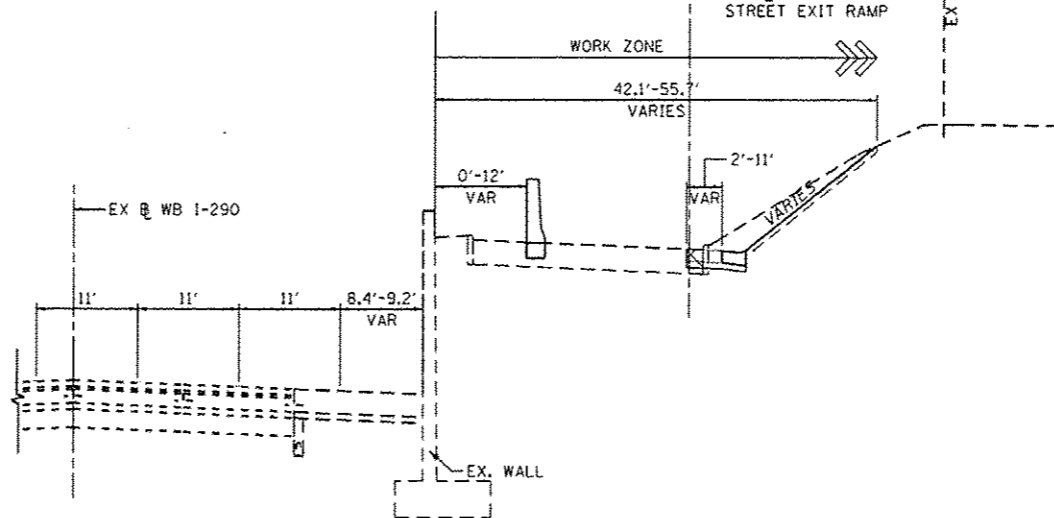
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	53
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



**STAGE 1**

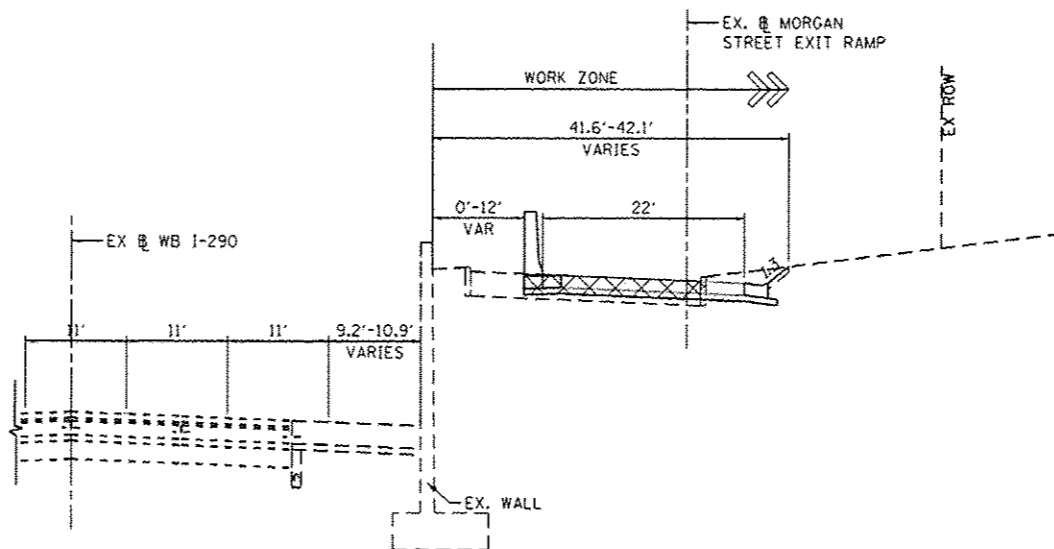
STA 1005+60.10 TO STA 1005+94.16

**INTERIM MORGAN STREET EXIT RAMP  
MAINTENANCE OF TRAFFIC  
TYPICAL SECTION**



**STAGE 2**

STA 1002+96.41 TO STA 1005+37.00



**STAGE 2**

STA 1005+37.00 TO STA 1005+60.00

- LEGEND**
- WORK ZONE
  - TEMPORARY IMPACT ATTENUATOR
  - TEMPORARY CONCRETE BARRIER
  - TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
  - TEMPORARY SOIL RETENTION SYSTEM OR BRACED EXCAVATION
  - DIRECTION OF TRAFFIC FLOW
  - SIGN
  - VERTICAL PANEL WITH STEADY BURNING LIGHT (AT SPECIFIED SPACING)
  - ARROW BOARD
  - TYPE III BARRICADE
  - BARRICADE OR DRUM WITH FLASHING LIGHT
  - TEMPORARY PAVEMENT MARKING - LINE 4"
  - REMOVAL LIMITS

FILE PATH: C:\Users\chuh\OneDrive\Documents\60W25-011-5\Drawings\typical-02.dgn



D:\60W25-011-5\Drawings\typical-02.dgn  
 USER NAME: chuh  
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 PLOT DATE: 7/16/2013

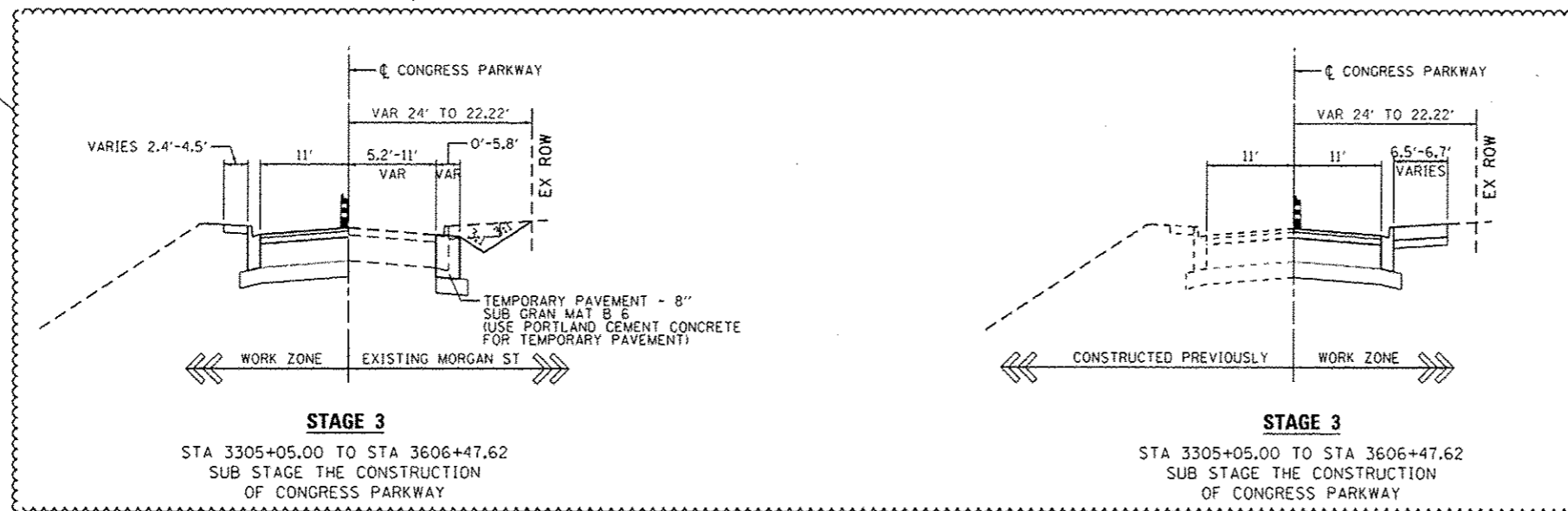
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CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
TYPICAL SECTIONS

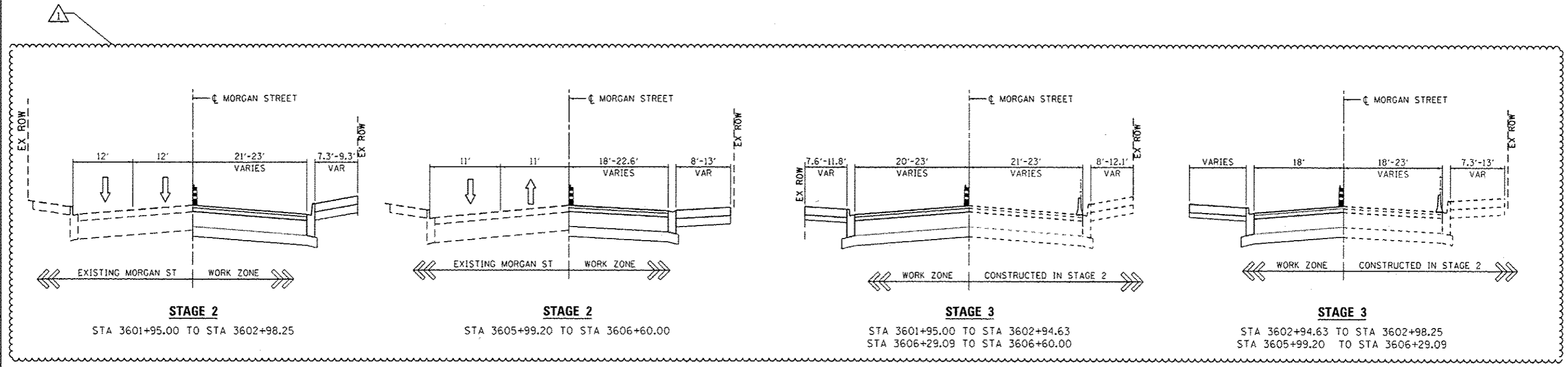
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	54
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.



- LEGEND**
- WORK ZONE
  - TEMPORARY IMPACT ATTENUATOR
  - TEMPORARY CONCRETE BARRIER
  - TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (AT SPECIFIED SPACING)
  - TEMPORARY CHAIN LINK FENCE WITH SCREENING, 4'
  - TEMPORARY SOIL RETENTION SYSTEM OR BRACED EXCAVATION
  - DIRECTION OF TRAFFIC FLOW
  - SIGN
  - VERTICAL PANEL WITH STEADY BURNING LIGHT (AT SPECIFIED SPACING)
  - ARROW BOARD
  - TYPE III BARRICADE
  - BARRICADE OR DRUM WITH FLASHING LIGHT
  - TEMPORARY PAVEMENT MARKING - LINE 4"
  - REMOVAL LIMITS

**CONGRESS PARKWAY  
MAINTENANCE OF TRAFFIC  
TYPICAL SECTION**



**MORGAN STREET  
MAINTENANCE OF TRAFFIC  
TYPICAL SECTION**

FILE PATH: C:\Users\Chuan\Desktop\60W25\60W25-Substaging-Typical-03.dgn



DI60W25-Substaging-Typical-03.dgn	DESIGNED - OPS	REVISED - 7/19/2013
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PLOT DATE: 7/16/2013	DATE - 6/17/2013	REVISED -

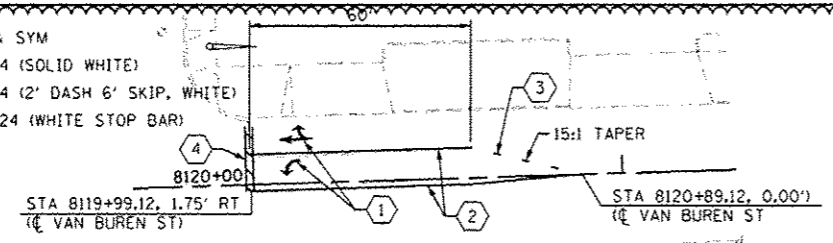
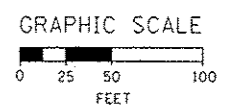
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL			
TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET 3 OF 3 SHEETS	STA.	TO STA.

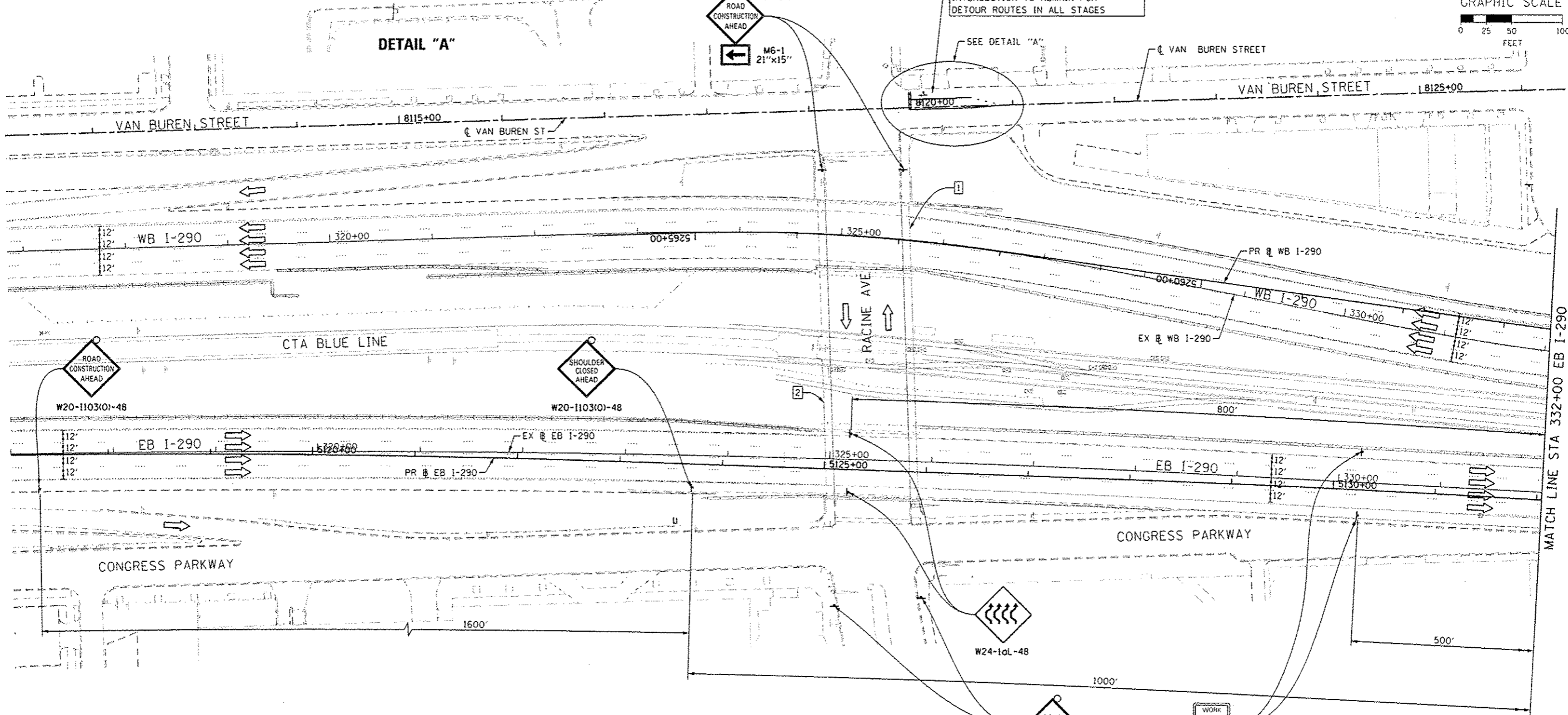
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	55
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

- 1 TEMP EPOXY PVT MK LTR & SYM
- 2 TEMP EPOXY PVT MK LINE 4 (SOLID WHITE)
- 3 TEMP EPOXY PVT MK LINE 4 (2' DASH 6' SKIP, WHITE)
- 4 TEMP EPOXY PVT MK LINE 24 (WHITE STOP BAR)

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



TEMPORARY EPOXY PAVEMENT MARKINGS  
AT RACINE AVE AND VAN BUREN ST  
INTERSECTION TO REMAIN FOR  
DETOUR ROUTES IN ALL STAGES



2 EXISTING OVERHEAD SIGNS TO REMAIN

1 INSTALL PROPOSED OVERHEAD BRIDGE MOUNTED SIGN  
ON RACINE AVE BRIDGE STRUCTURE. SEE OVERHEAD SIGN  
STRUCTURE PLANS (SHEETS 112 TO 121) FOR ADDITIONAL  
INFORMATION.

**Congress Pkwy**  
**Chicago Loop**  
↓ ↓

**WEST Kennedy Expy**  
**Wisconsin**  
↓

**EAST Ryan Expy**  
**Indiana**  
↓

**EXIT 28A**  
**Damen Ave**  
3/4 MILE

**EXIT 28B**  
**Ashland Ave**  
1/4 MILE

WORK ZONE  
SPEED LIMIT  
**45**  
PHOTO ENFORCED  
SPOK FINE MINIMUM

W2-1115(O)-3618  
R2-1-3648  
R10-19OP-3618  
R2-1106-3618



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DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

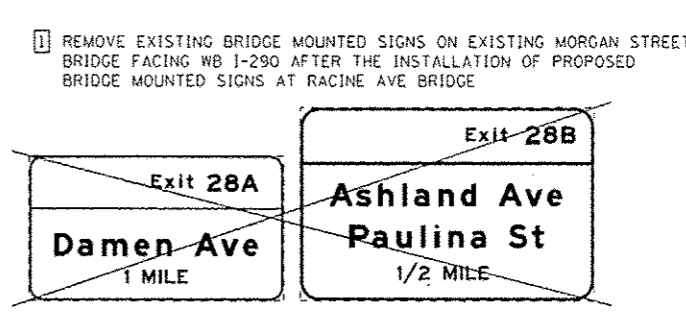
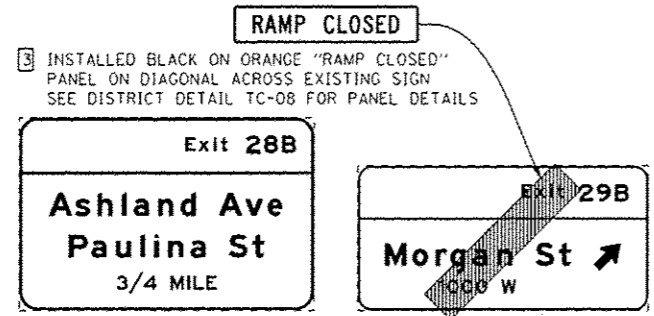
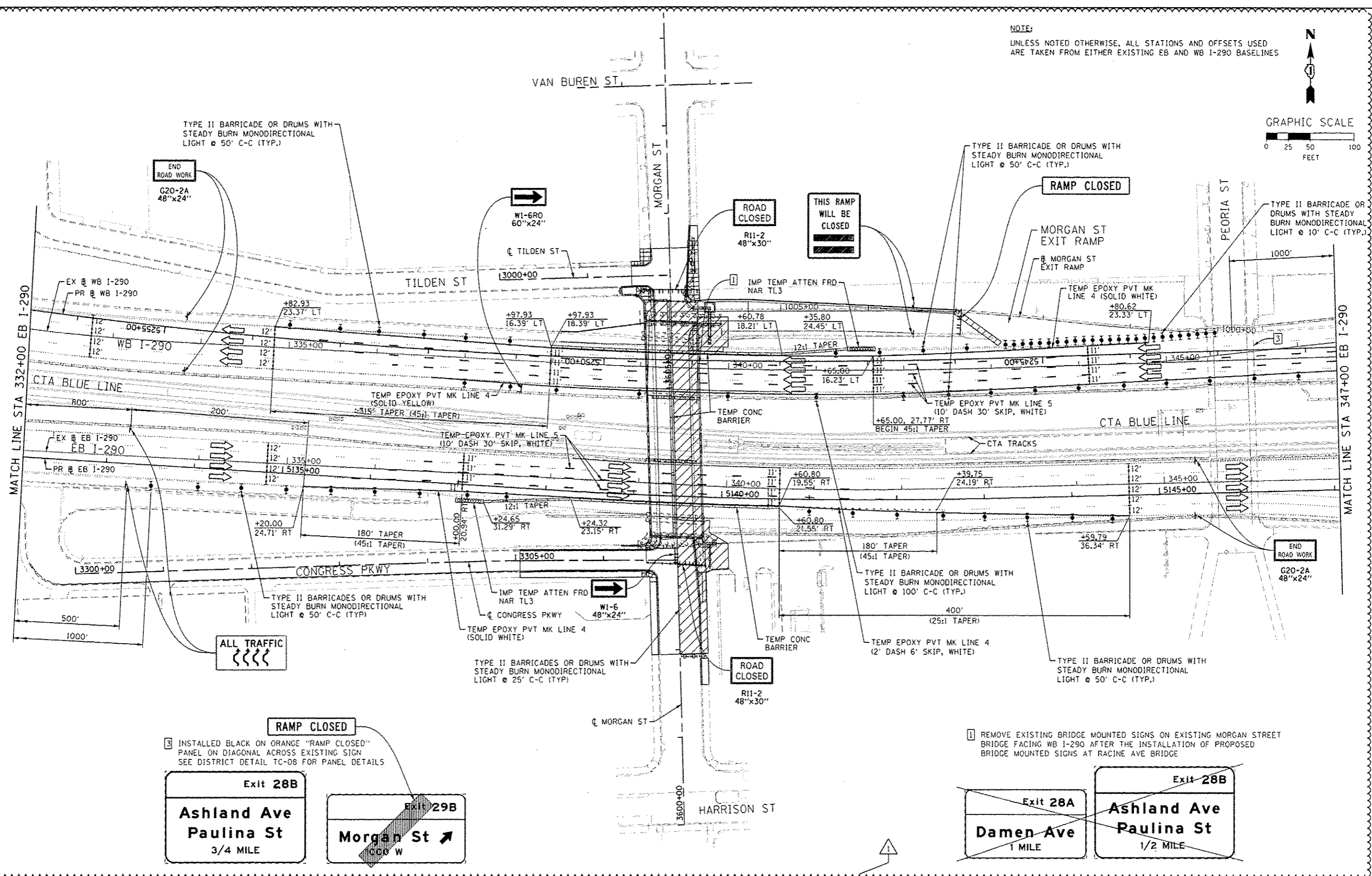
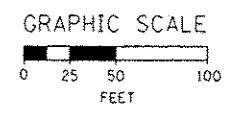
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 1

SCALE: 1" = 50' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	56
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

FILE PATH: C:\Users\Chuan\OneDrive\Documents\60W25-S1-Stationing.dgn

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



<b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1400          CHICAGO, IL 60601-3276          PHONE (312) 373-1700 FAX (312) 373-6800</small>	016BW25-Sht-Stage1-02.dgn	DESIGNED - OPS	REVISED - 7/19/2013	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL</b> <b>STAGE 1</b>		F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 57		
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	PLOT SCALE: 5/8, 0/000 / 1/4	CHECKED - DBM	REVISED -		DATE: 6/17/2013	ILLINOIS FED. AID PROJECT							
	PLOT DATE: 7/16/2013	DATE: 6/17/2013	REVISED -										



NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES

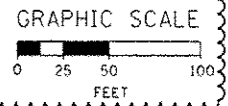
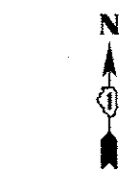
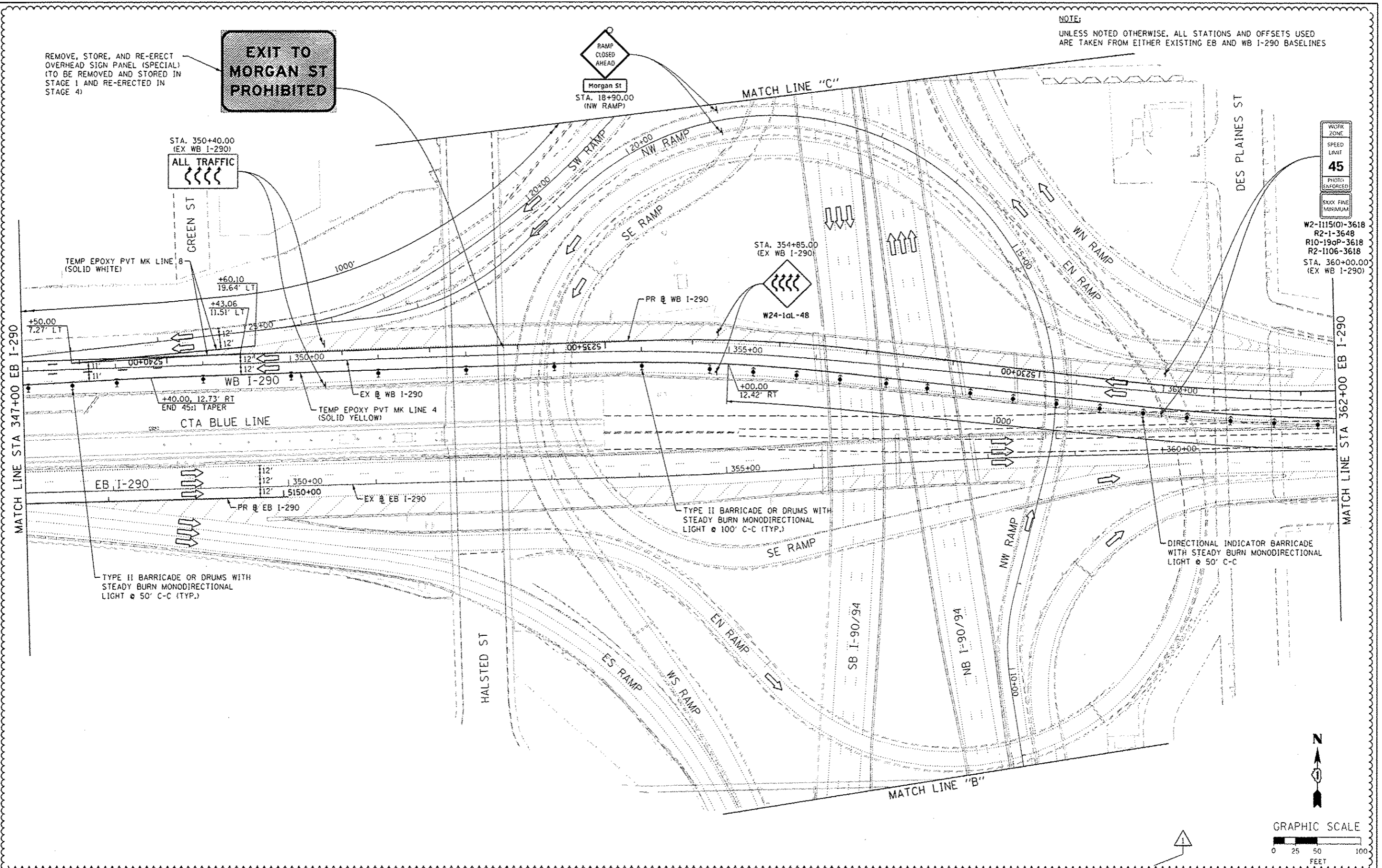
REMOVE, STORE, AND RE-ERECT  
OVERHEAD SIGN PANEL (SPECIAL)  
(TO BE REMOVED AND STORED IN  
STAGE 1 AND RE-ERECTED IN  
STAGE 4)

**EXIT TO  
MORGAN ST  
PROHIBITED**

RAMP  
CLOSED  
AHEAD  
Morgan St  
STA. 18+90.00  
(NW RAMP)

WORK  
ZONE  
SPEED  
LIMIT  
**45**  
PHOTO  
ENFORCED  
EXCESS  
FINE  
MINIMUM

W2-1115(10)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618  
STA. 360+00.00  
(EX WB I-290)



FILE PATH: C:\Users\Chuan\Desktop\60W25-5ht-Stage1-03.dgn



D:\60W25-5ht-Stage1-03.dgn  
USER NAME: chuan  
PLOT SCALE: 50.0000' / 1" = 100'  
PLOT DATE: 7/16/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

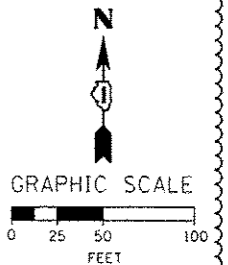
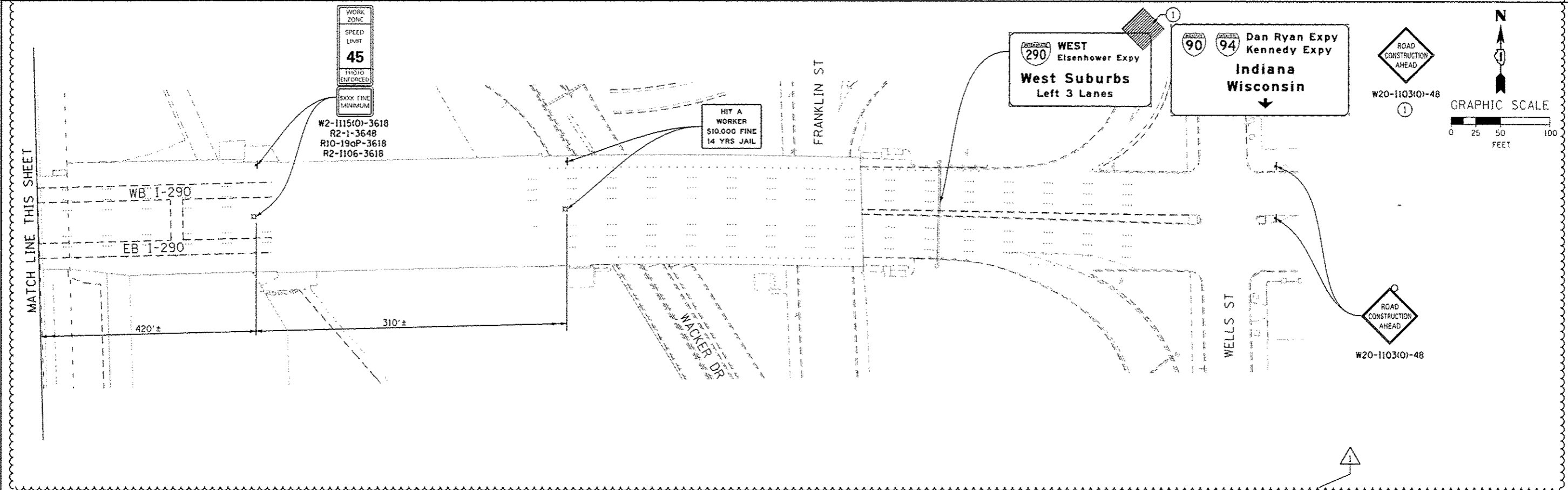
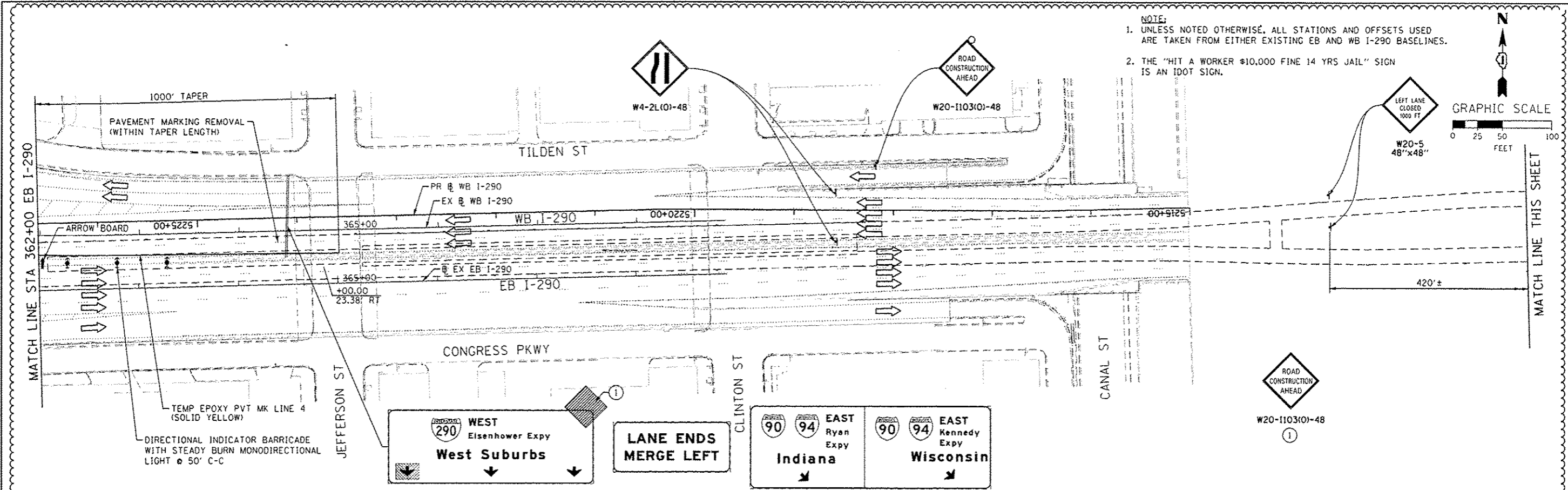
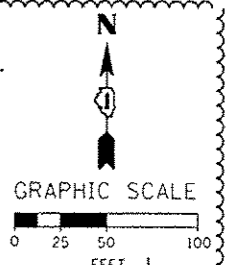
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 1

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 58
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



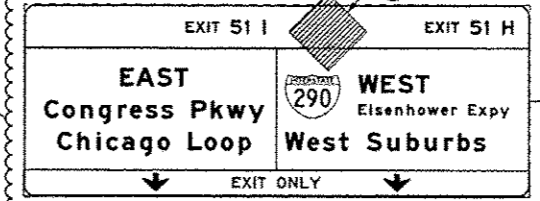
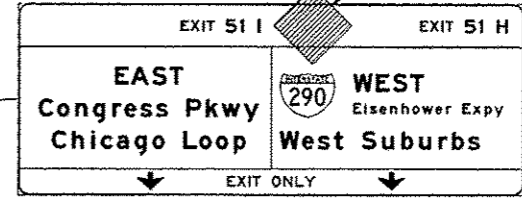
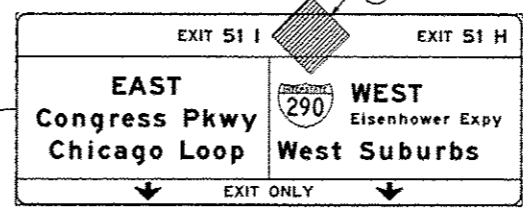
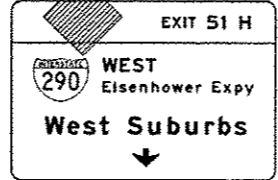
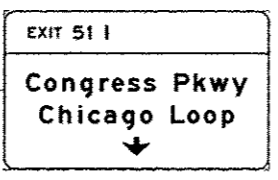
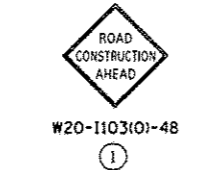
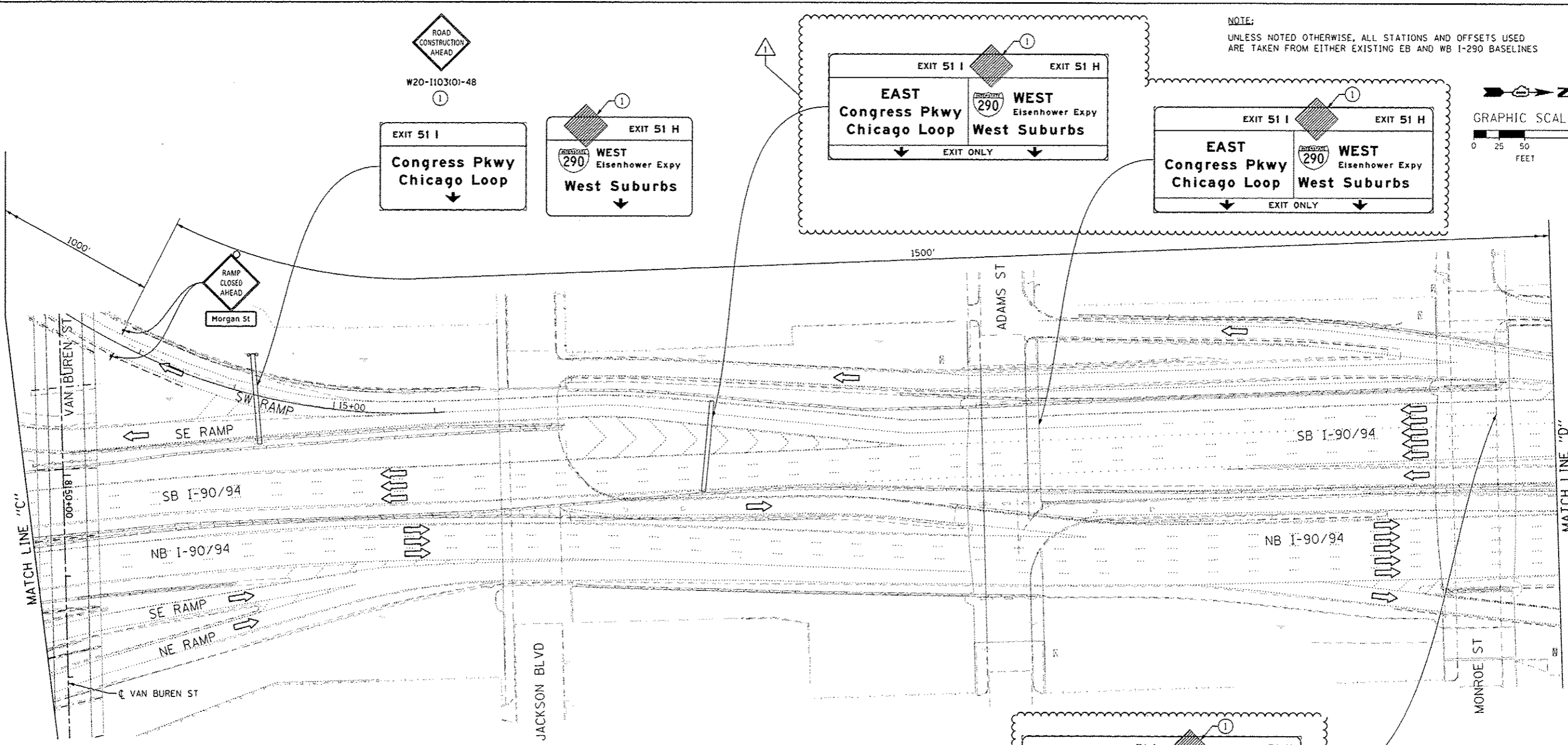
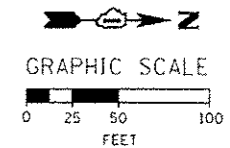
NOTE:  
 1. UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES.  
 2. THE "HIT A WORKER \$10,000 FINE 14 YRS JAIL" SIGN IS AN IDOT SIGN.



FILE PATH: C:\Users\chuan\OneDrive\Documents\60W25-Sub-Construction\60W25-Sub-Construction.dgn

<p>303 EAST WACKER DRIVE, SUITE 1400        CHICAGO, IL 60601-5274        PHONE: (312) 313-1100 FAX: (312) 313-4800</p>	D:\60W25-Sub-Construction\60W25-Sub-Construction.dgn	DESIGNED - OPS	REVISED - 7/19/2013	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL</b> <b>STAGE 1</b>			F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 59	
	USER NAME: chuan	DRAWN - PHP	REVISED -		SCALE: 1" = 50'			SHEET 4	OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 60W25		
	PLDT SCALE: 50.0000 1/4" = 1'	CHECKED - DBM	REVISED -		ILLINOIS FED. AID PROJECT								
	PLDT DATE: 7/16/2013	DATE: 5/14/2013	REVISED -										

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: E:\Users\chun\OneDrive\Work\60W25\60W25-007R\60W25-007R.dgn



D:\60W25-Sht-Staging\1-06.dgn  
USER NAME: chun  
PLOT SCALE: 50.0000' / 1" IN.  
PLOT DATE: 7/18/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

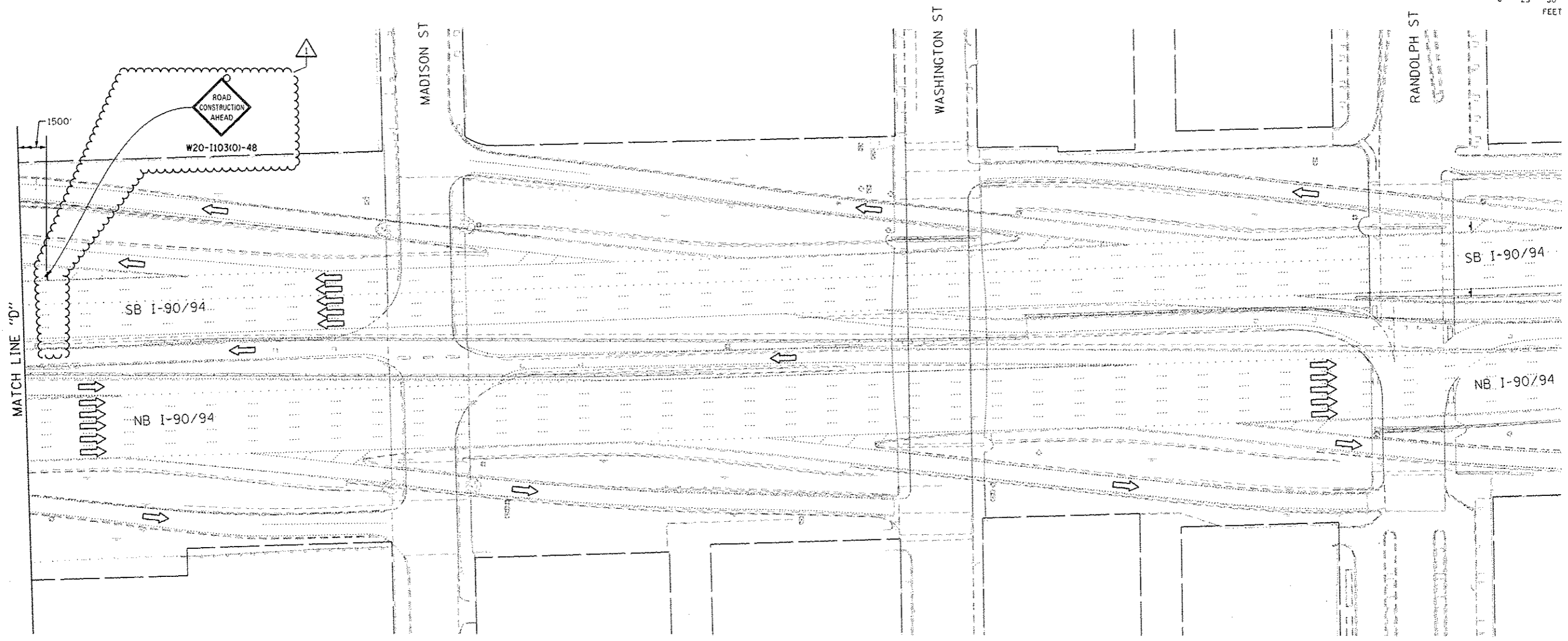
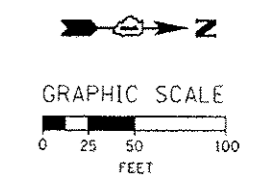
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 1

SCALE: 1" = 50' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	61
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: C:\Users\chun\OneDrive\Documents\60W25-Sht-Stage1.rvt



0160W25-Sht-Stage1.rvt  
USER NAME: chun  
PLOT SCALE: 50.0000' / 1" / 1"  
PLOT DATE: 7/16/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 5/14/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

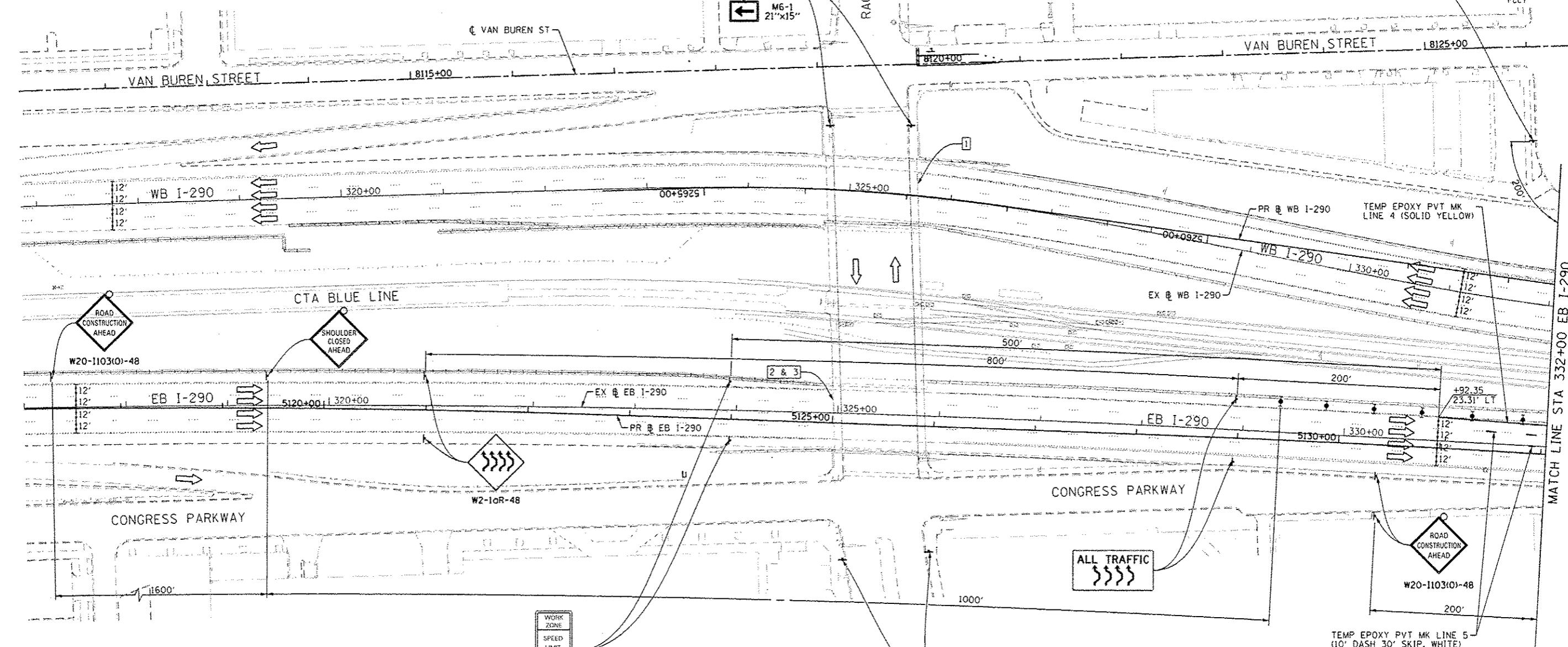
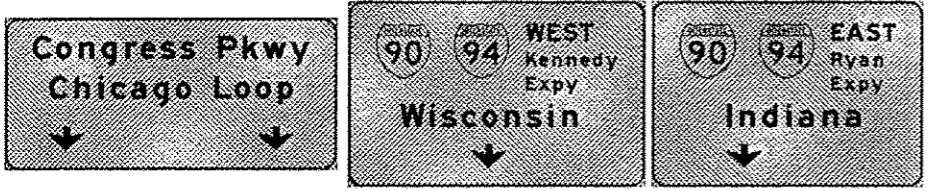
**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 1**

SCALE: 1" = 50' SHEET 7 OF 7 SHEETS STA. TO STA.

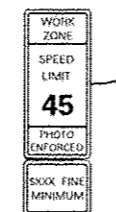
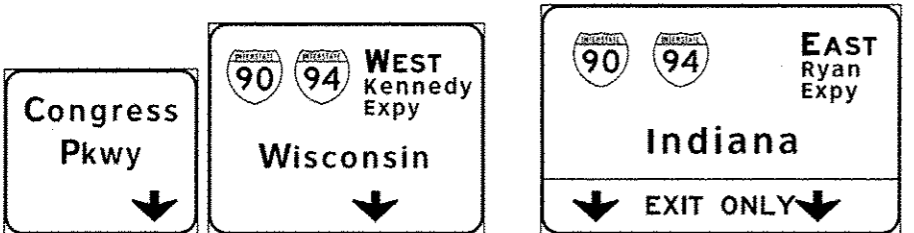
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	62
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES

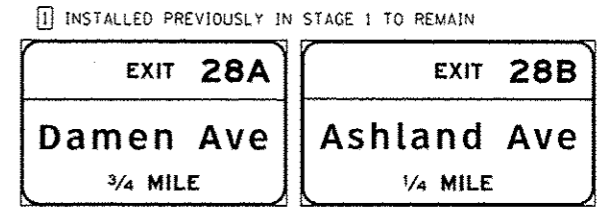
2 REMOVE, STORE, AND RE-ERECT OVERHEAD SIGN PANEL (SPECIAL) (REMOVE AND STORE SIGN PANEL IN STAGE 2 AND RE-ERECT IN STAGE 4) REFER TO 3 FOR TEMPORARY OVERHEAD SIGNS



3 INSTALL TEMPORARY OVERHEAD SIGN PANELS. SEE OVERHEAD SIGN STRUCTURE PLANS (SHEETS 112 TO 121) FOR ADDITIONAL INFORMATION. (PAID FOR AS SIGN PANEL TYPE 3)



W2-1115(0)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618



DIG0425-Sht-Staging2-01.dgn  
USER NAME: rchuck  
PLOT SCALE: 50.0000' / 1" = 1000'  
PLOT DATE: 7/16/2013

DESIGNED - DPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

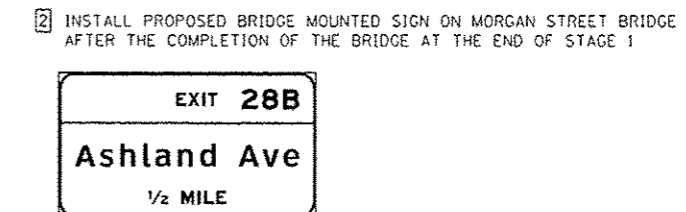
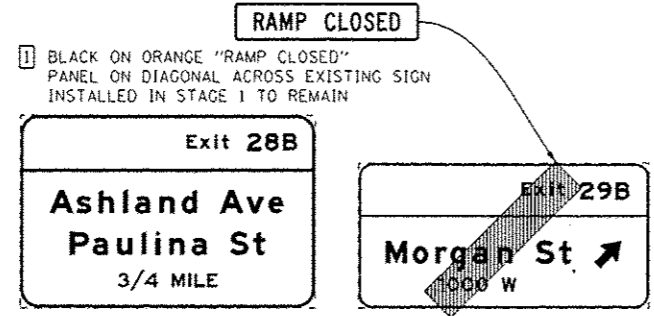
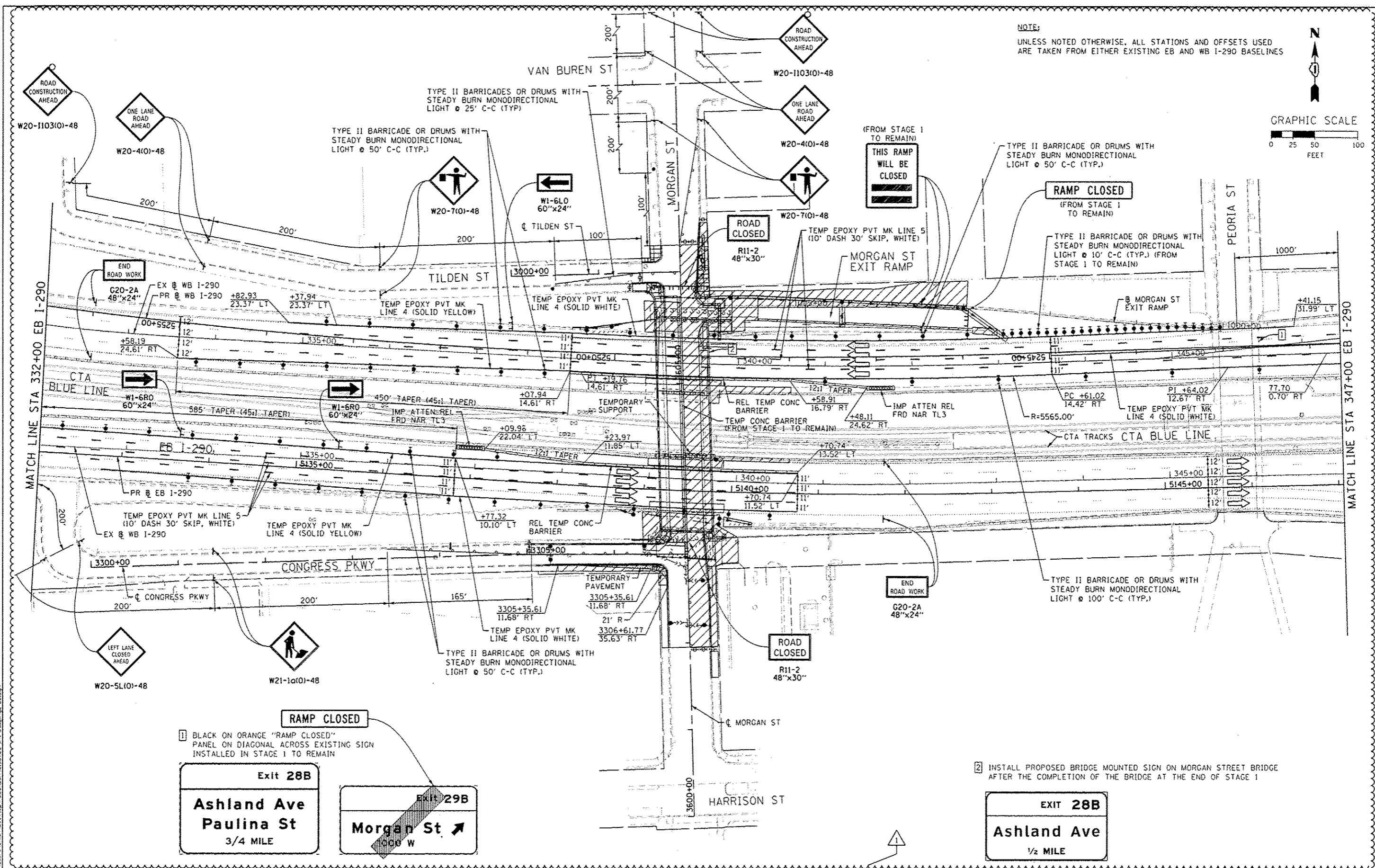
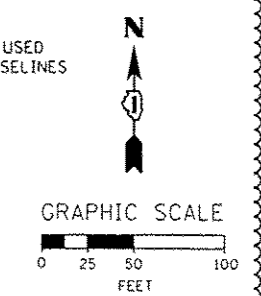
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 2  
SCALE: 1" = 50' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	63
				CONTRACT NO. 60W25
ILLINOIS FED. AID PROJECT				

FILE PATH: C:\Users\A\Documents\Projects\60W25-Sht-Staging2-01.dgn

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES

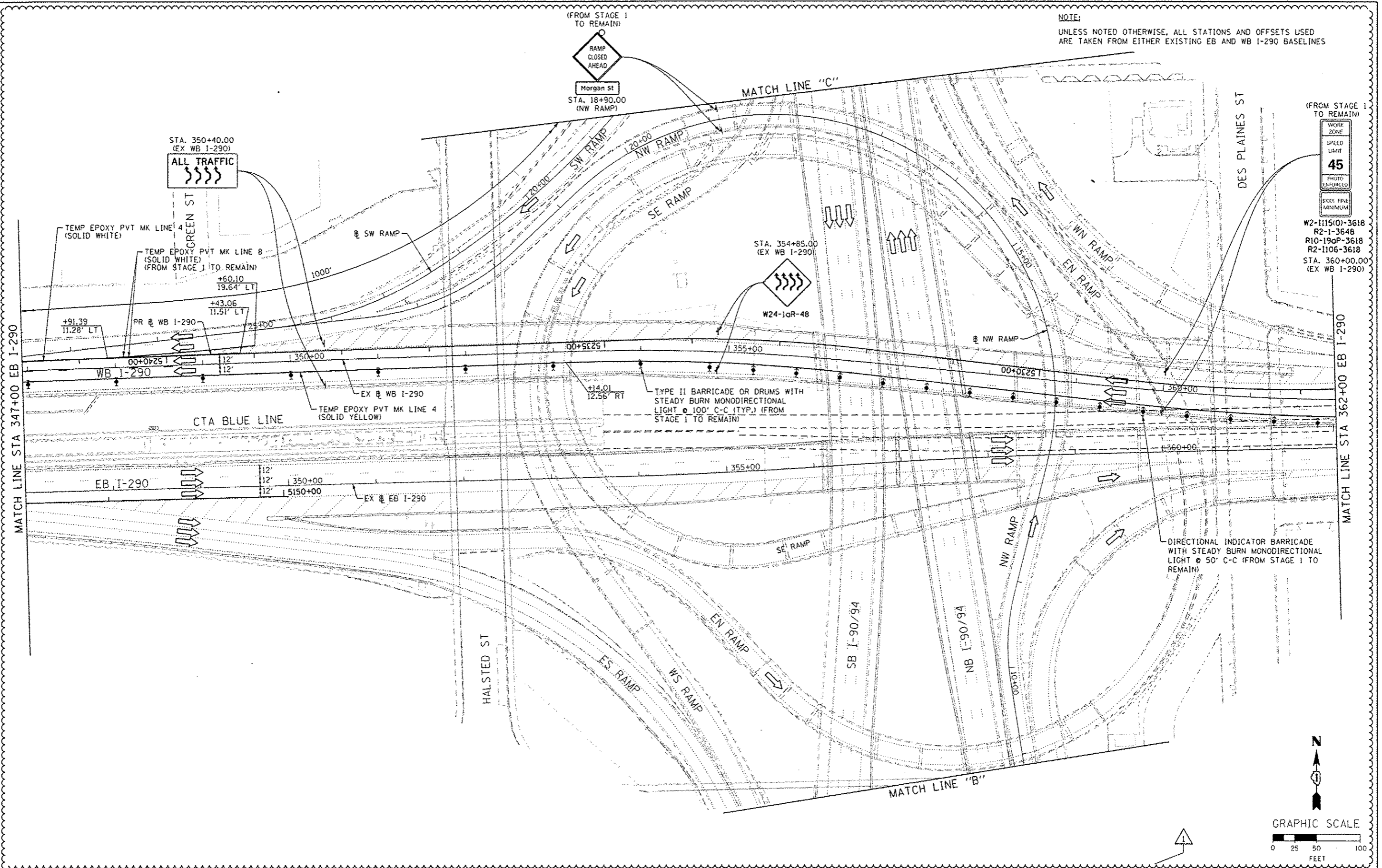


FILE PATH: C:\Users\chua\OneDrive\Desktop\60625\60625-1-15\60625-02.dgn

<p>303 EAST Wacker Drive, Suite 1400 Chicago, IL 60601-3216 Phone: (312) 313-3100 Fax: (312) 313-4800</p>	DIB8M25-sh1-5staging2-02.dgn USER NAME: chua PLOT SCALE: 50.0000 1/4 in. PLOT DATE: 7/16/2013	DESIGNED - OPS DRAWN - PHP CHECKED - DBM DATE - 6/17/2013	REVISED - 7/19/2013 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL STAGE 2</b>		F.A.I. RTE.: 90/94/290 SECTION: 2013-00TR COUNTY: COOK CONTRACT NO.: 60W25	TOTAL SHEETS: 317 SHEET NO.: 64
	SCALE: 1" = 50' SHEET 2 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT					

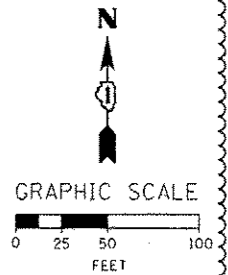


NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



(FROM STAGE TO REMAIN)  
WORK ZONE  
SPEED LIMIT  
**45**  
PHOTO ENFORCED  
300X FINE MINIMUM

W2-1115(0)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618  
STA. 360+00.00  
(EX WB I-290)



FILE PATH: C:\Users\Chuan\Desktop\1001EN2013\10159\25-111-Stage2-03.dgn



D16R25-ant-Stage2-03.dgn  
USER NAME: chuan  
PLOT SCALE: 50.0000 1/1 in.  
PLOT DATE: 7/16/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

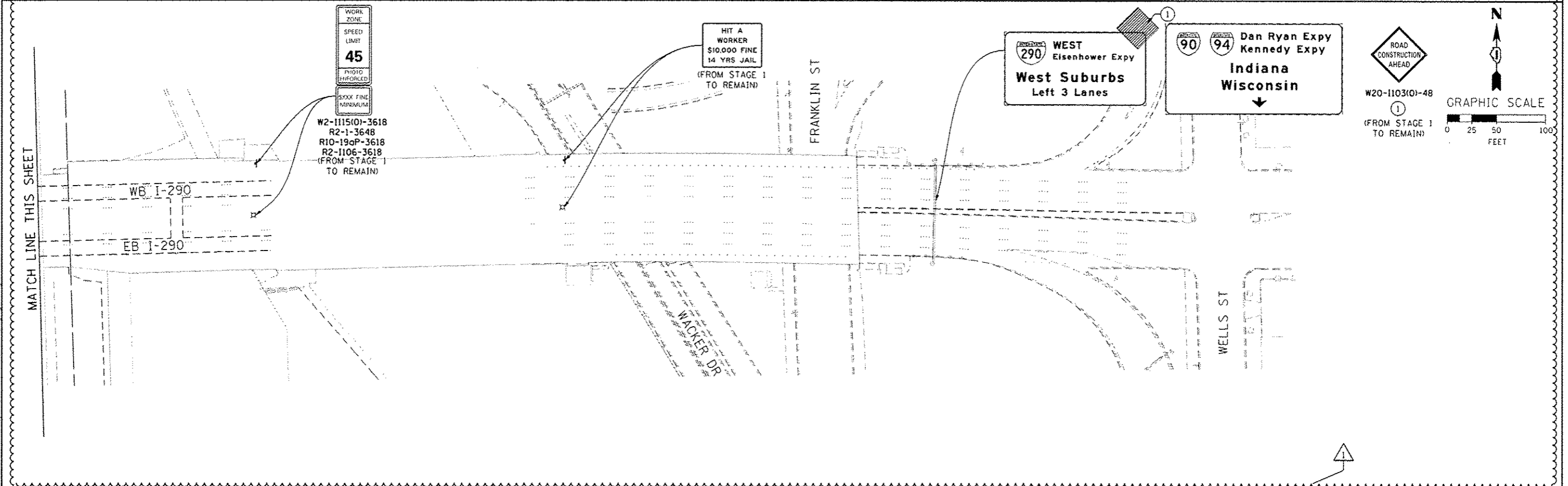
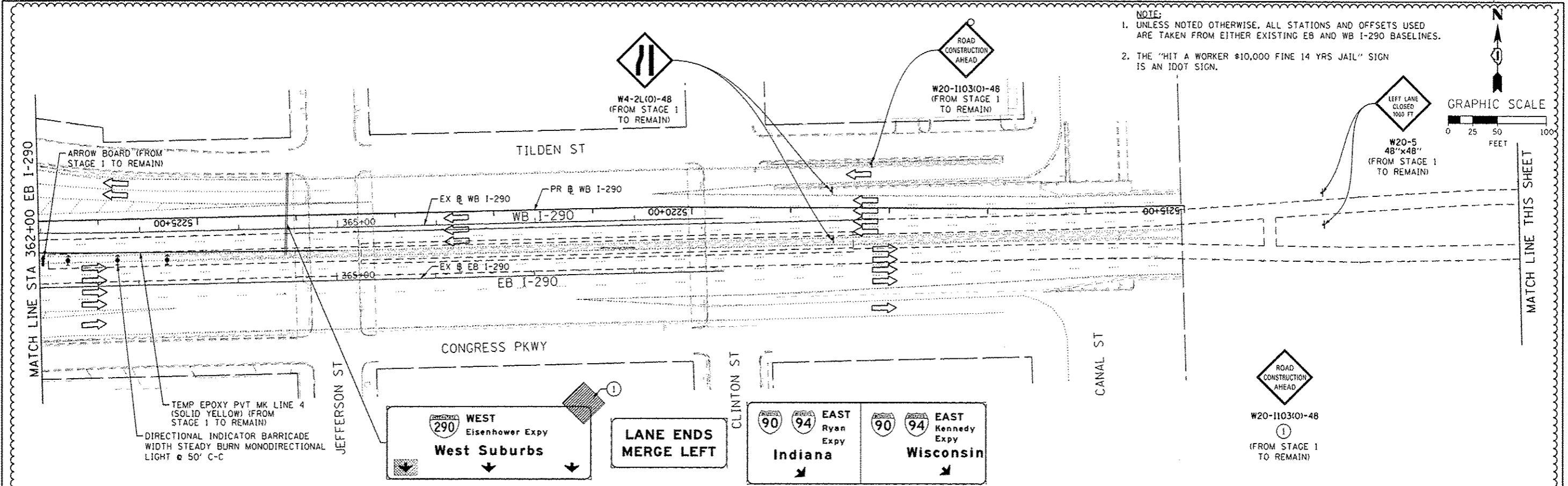
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 2

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	65
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

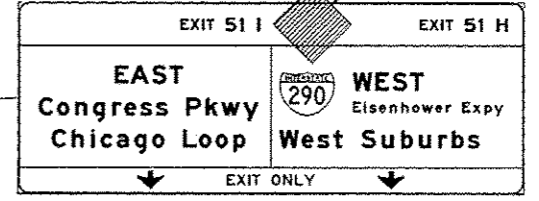
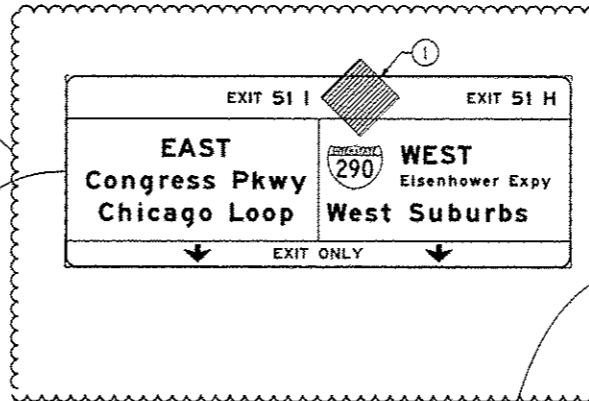
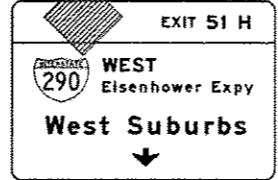
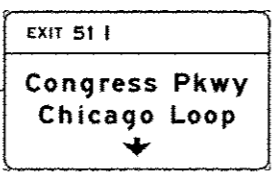
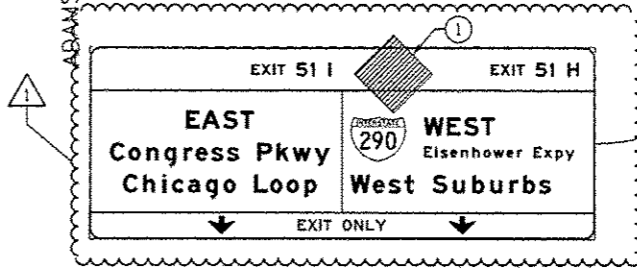
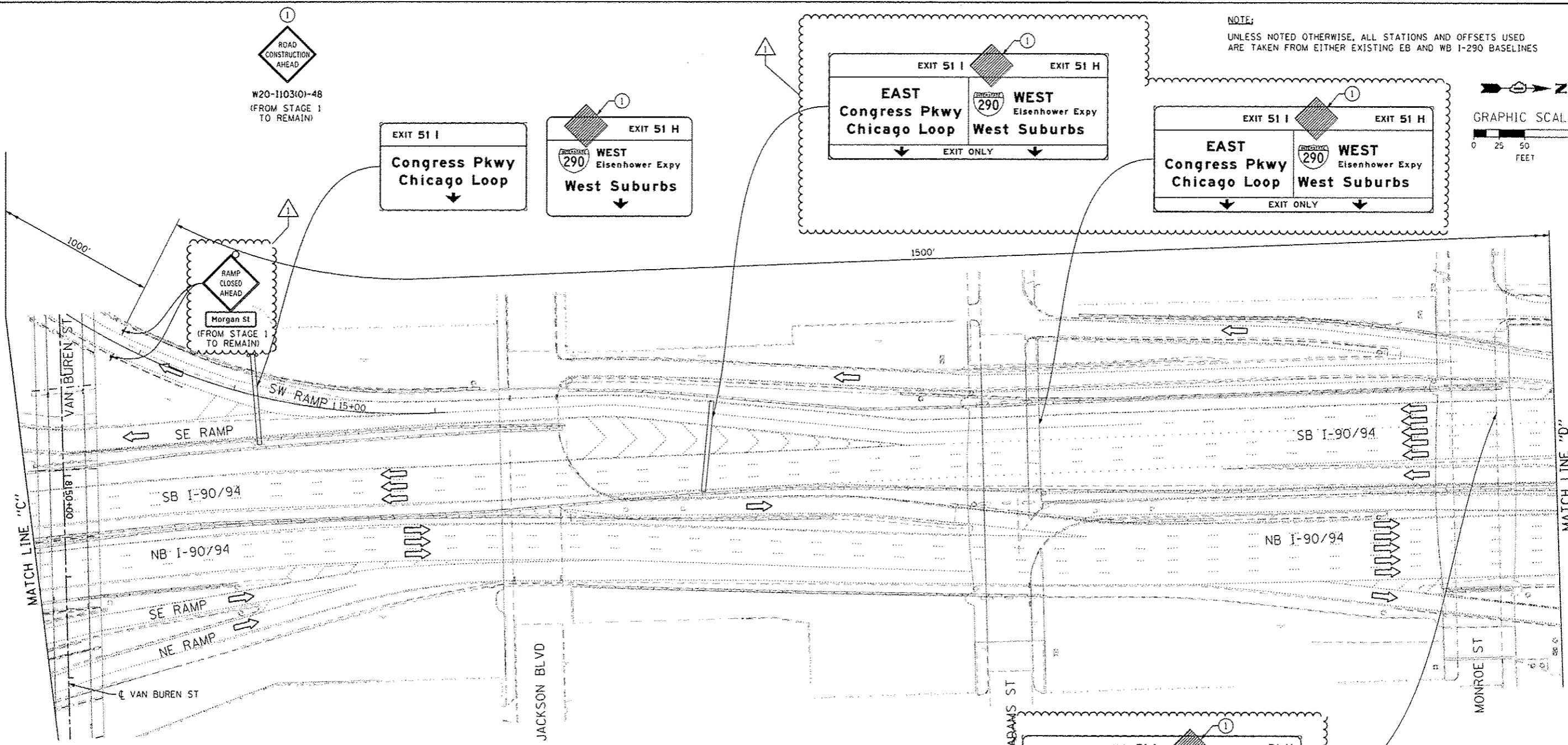
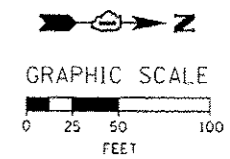




<b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1100          CHICAGO, IL 60601-3275          PHONE: (312) 313-1700 FAX: (312) 313-4800</small>	DIB6W25-ah1-Staging2-04.dgn USER NAME: achiuo PLOT SCALE: 1/8" = 1' / in. PLOT DATE: 7/16/2013	DESIGNED - OPS DRAWN - PHP CHECKED - DBM DATE - 5/14/2013	REVISED - $\Delta$ 7/19/2013 REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL</b> <b>STAGE 2</b>			F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 66
	SCALE: 1" = 50'    SHEET 4 OF 7 SHEETS    STA.    TO STA.				CONTRACT NO. 60W25							
					<small>ILLINOIS FED. AID PROJECT</small>							

FILE PATH: C:\Users\chiu\OneDrive\Documents\60W25-ah1-5\staging2-04.dgn

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: C:\Users\chuan\Documents\AECOM\9094\9094-007\9094-007-06.dgn



D:\6025-Sht-Staging2-06.dgn  
USER NAME: chuan  
PLOT SCALE: 50.0000 / 1"=50'  
PLOT DATE: 7/16/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

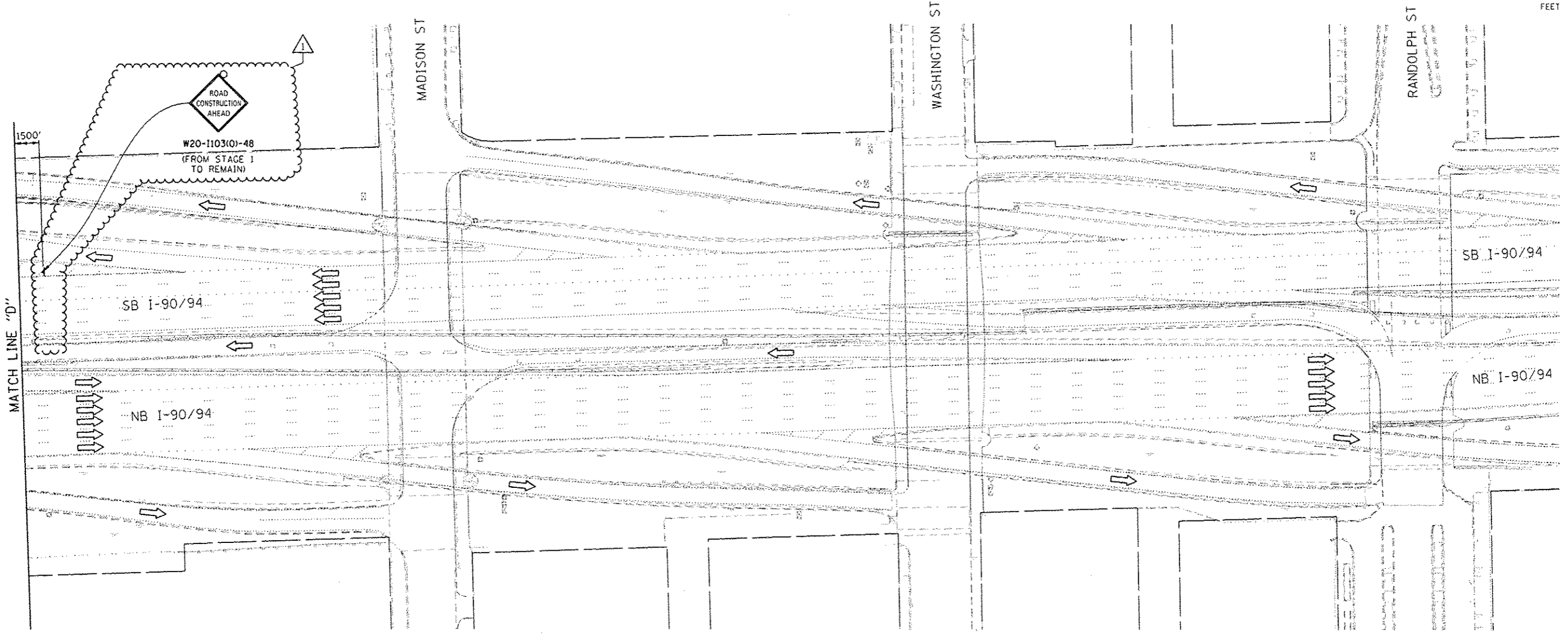
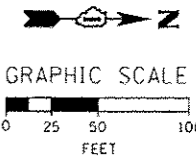
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 2

SCALE: 1" = 50' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	68
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: C:\Users\AEC\Documents\60W25-Sht-Staging2-07.dgn



0168W25-Sht-Staging2-07.dgn  
USER NAME: AECIUS  
PLOT SCALE: 50,0000 1/1 in.  
PLOT DATE: 7/16/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - PHP	REVISED -
CHECKED - DBM	REVISED -
DATE - 5/14/2013	REVISED -

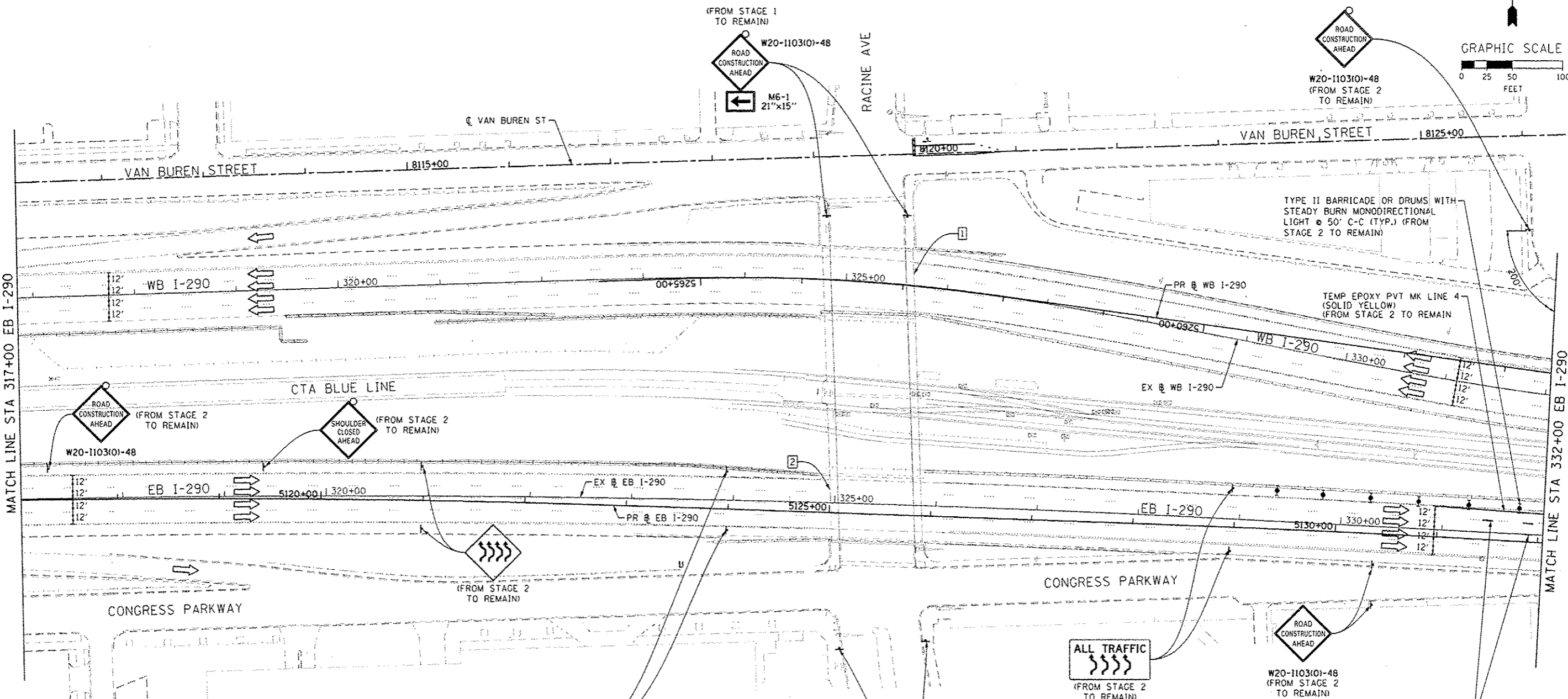
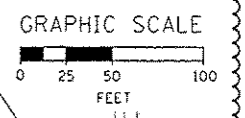
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 2

SCALE: 1" = 50' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	69
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



TEMPORARY OVERHEAD SIGN PANELS INSTALLED IN STAGE 2 TO REMAIN

W2-1115(O)-3618  
R2-1-3648  
R10-19oP-3618  
R2-1106-3618

**Congress Pkwy**  
**Wisconsin**  
**Indiana**  
 EAST Ryan Expy  
 90 94  
 EXIT ONLY

**EXIT 28A**  
**Damen Ave**  
 3/4 MILE  
**EXIT 28B**  
**Ashland Ave**  
 1/4 MILE



016@W25-Sht-Staging3-01.dgn  
USER NAME: chiu  
PLOT SCALE: 50,0000  
PLOT DATE: 7/18/2013

DESIGNED	- OPS	REVISED	- 7/19/2013
DRAWN	- PHP	REVISED	-
CHECKED	- DBM	REVISED	-
DATE	- 6/17/2013	REVISED	-

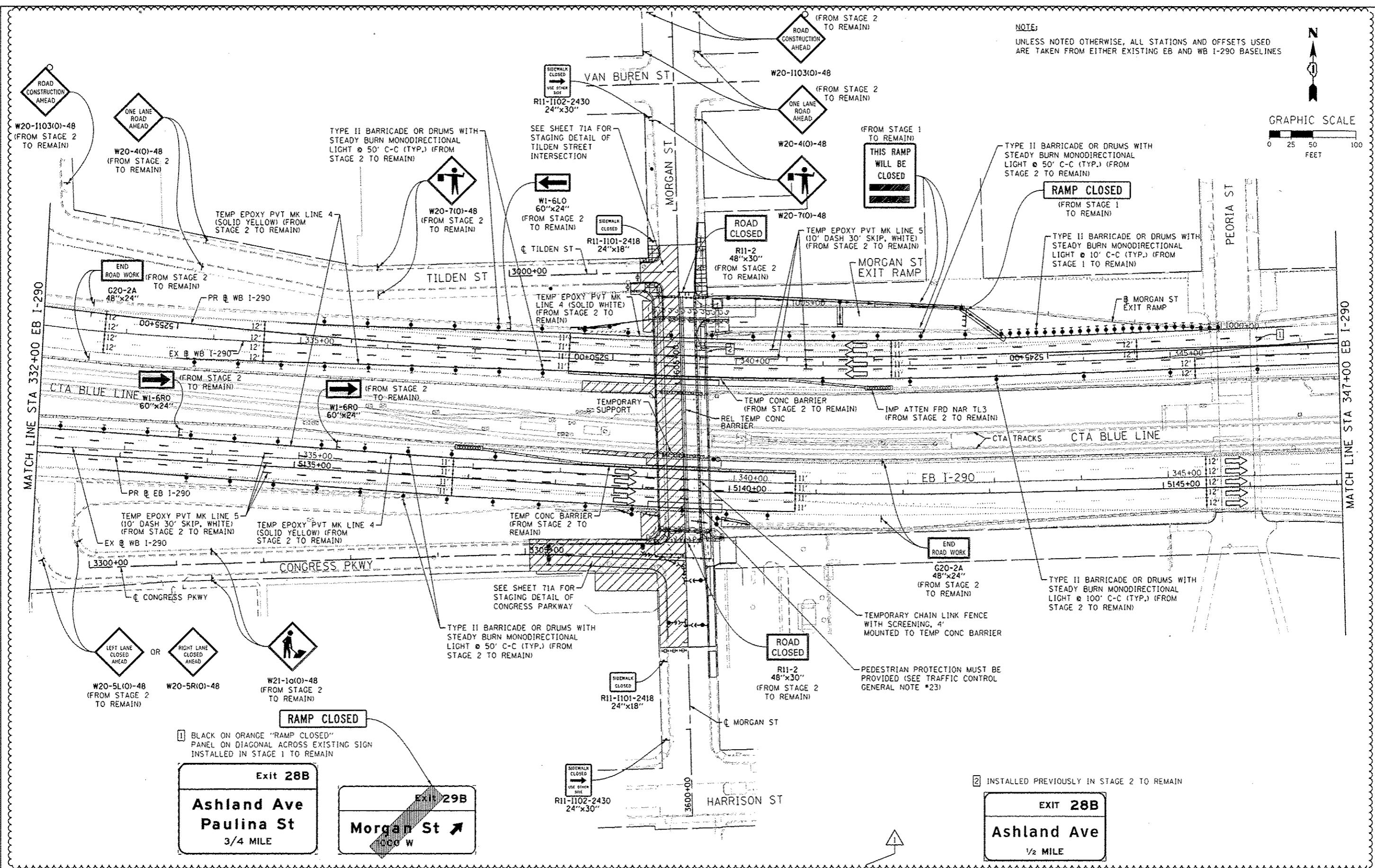
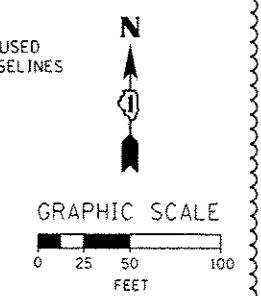
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3

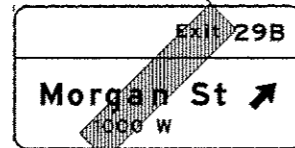
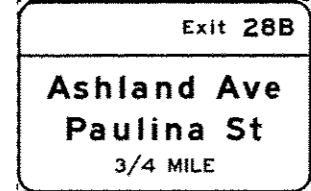
SCALE: 1" = 50'  
SHEET 1 OF 7 SHEETS  
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	70
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

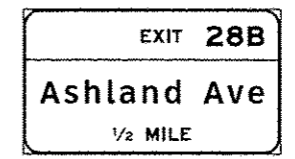
NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



1 BLACK ON ORANGE "RAMP CLOSED" PANEL ON DIAGONAL ACROSS EXISTING SIGN INSTALLED IN STAGE 1 TO REMAIN



2 INSTALLED PREVIOUSLY IN STAGE 2 TO REMAIN



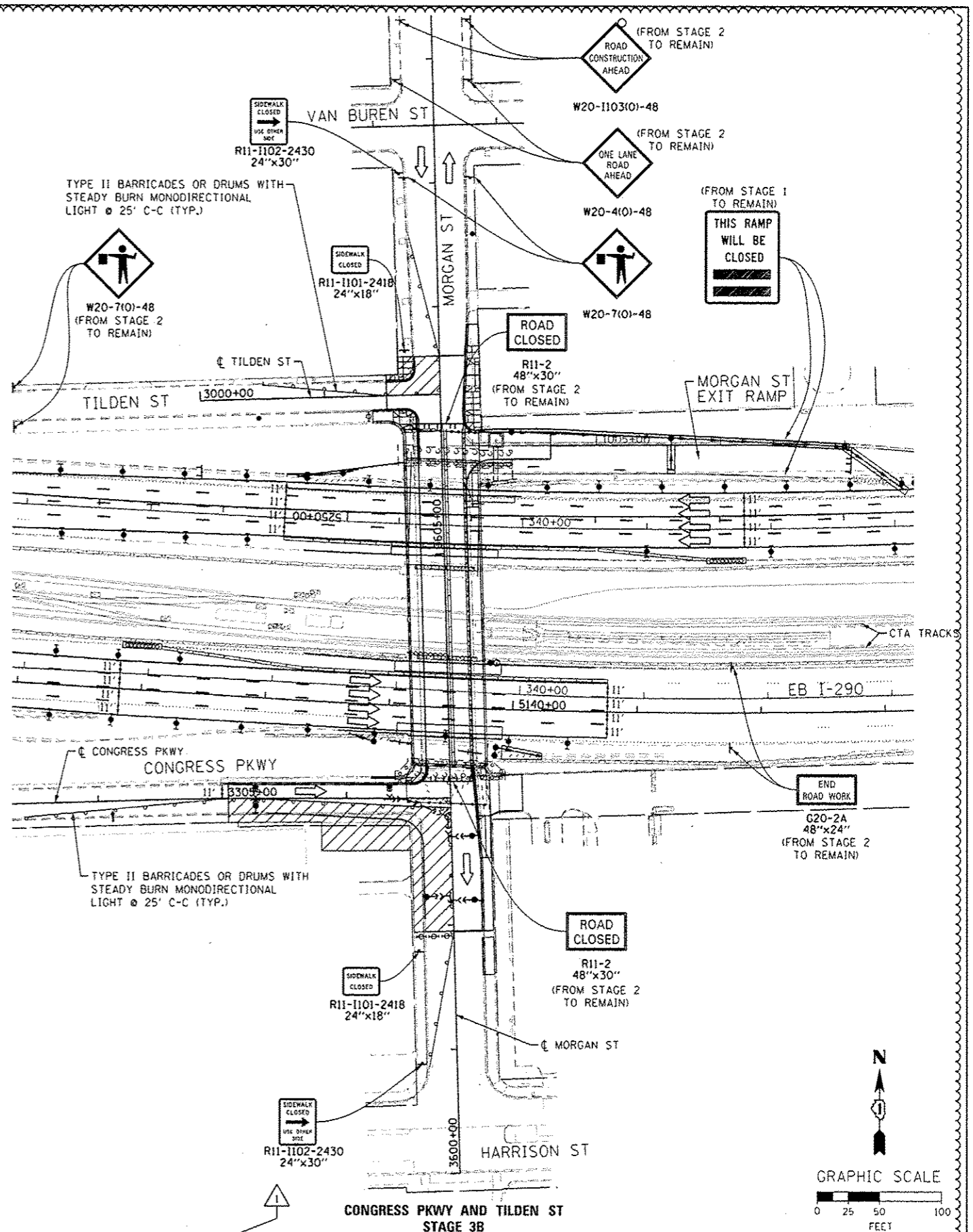
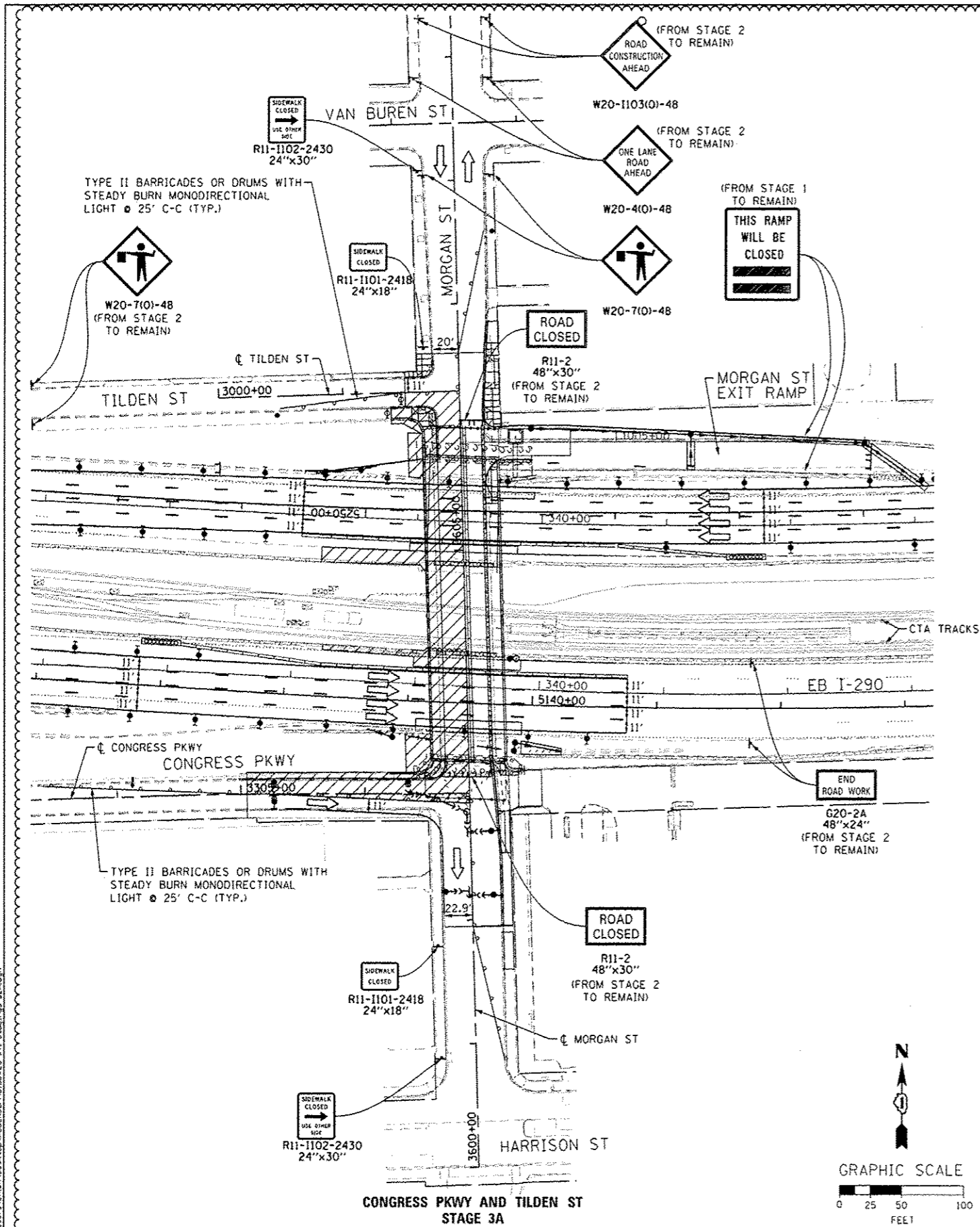
D160W25-phr-Staging3-02	DESIGNED - OPS	REVISED - 7/19/2013
USER NAME - chluo	DRAWN - PHP	REVISED -
PLOT SCALE - 50,00000 1" = 50'	CHECKED - DBM	REVISED -
PLOT DATE - 7/16/2013	DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3  
SCALE: 1" = 50' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 71
CONTRACT NO. 60W25				ILLINOIS FED. AID PROJECT





CONGRESS PKWY AND TILDEN ST  
STAGE 3A

CONGRESS PKWY AND TILDEN ST  
STAGE 3B



USER NAME	DESIGNED	OPS
PLOT SCALE	DRAWN	PHP
PLOT DATE	CHECKED	DBM
	DATE	6/17/2013

REVISION	REVISED	- R/ 7/18/2013
	REVISED	-
	REVISED	-
	REVISED	-

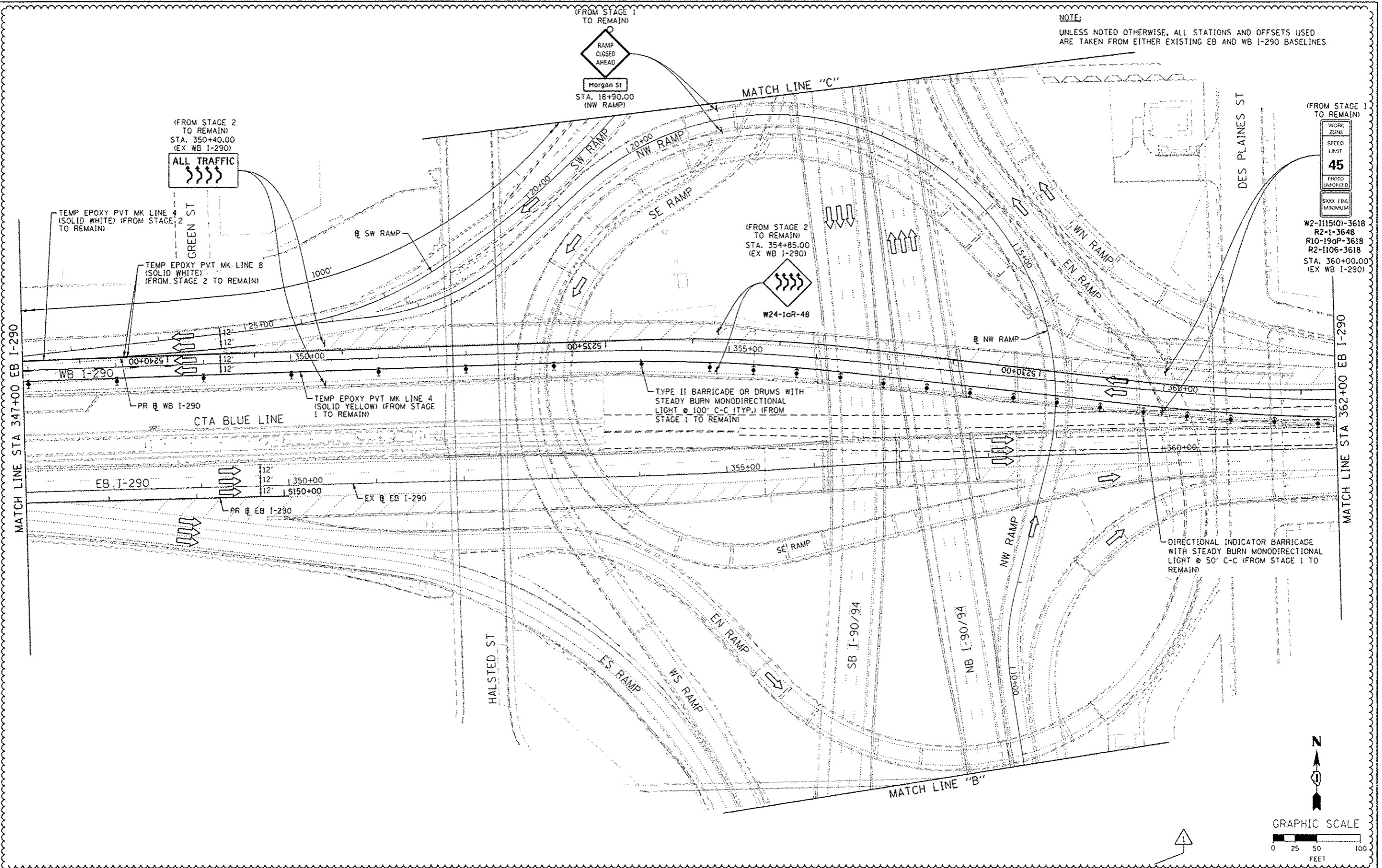
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3

SCALE: 1" = 50' SHEET 2A OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	71A
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



(FROM STAGE TO REMAIN)  
WORK ZONE  
SPEED LIMIT  
**45**  
PHOTO ENFORCED  
XXXX FINE  
MINIMUM

W2-1115(0)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618  
STA. 360+00.00  
(EX WB I-290)

DIRECTIONAL INDICATOR BARRICADE  
WITH STEADY BURN MONODIRECTIONAL  
LIGHT @ 50' C-C (FROM STAGE 1 TO  
REMAIN)

TYPE II BARRICADE OR DRUMS WITH  
STEADY BURN MONODIRECTIONAL  
LIGHT @ 100' C-C (TYP.) (FROM  
STAGE 1 TO REMAIN)

(FROM STAGE 2  
TO REMAIN)  
STA. 350+40.00  
(EX WB I-290)  
**ALL TRAFFIC**

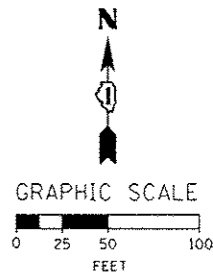
TEMP EPOXY PVT MK LINE 4  
(SOLID WHITE) (FROM STAGE 2  
TO REMAIN)

TEMP EPOXY PVT MK LINE 8  
(SOLID WHITE)  
(FROM STAGE 2 TO REMAIN)

TEMP EPOXY PVT MK LINE 4  
(SOLID YELLOW) (FROM STAGE  
1 TO REMAIN)

MATCH LINE STA 347+00 EB I-290

MATCH LINE STA 362+00 EB I-290



D:\E\2013\11-11-13\Staging3-03.dgn  
USER NAME: ehuis  
PLOT SCALE: 50.0000 / 1" = 50'  
PLOT DATE: 7/15/2013

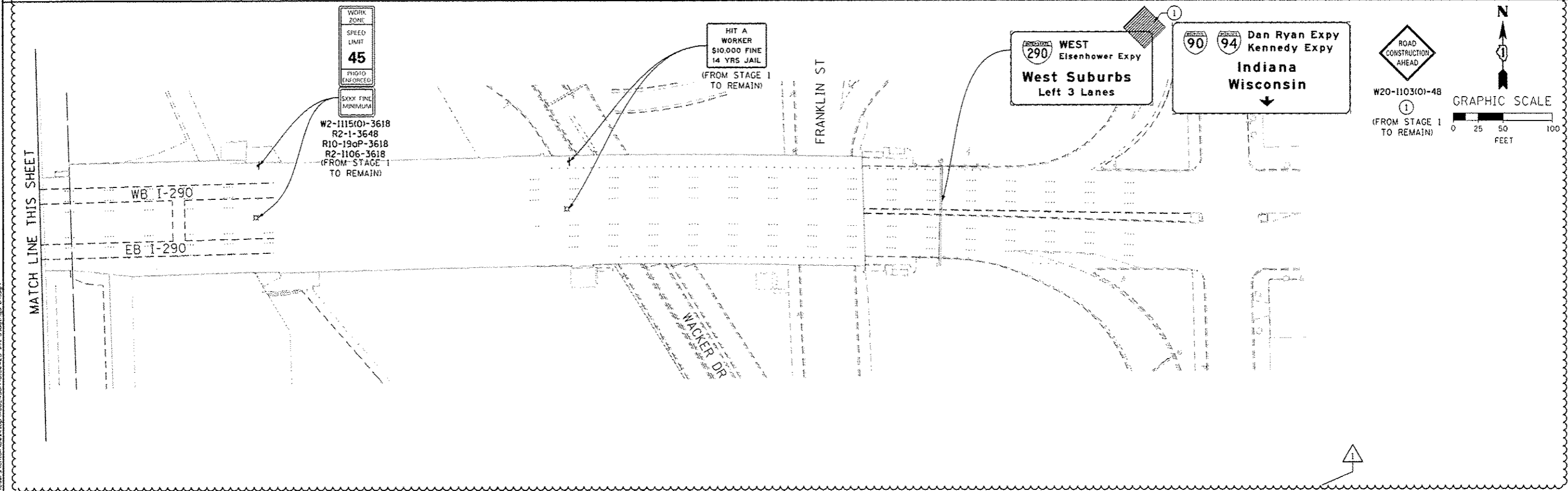
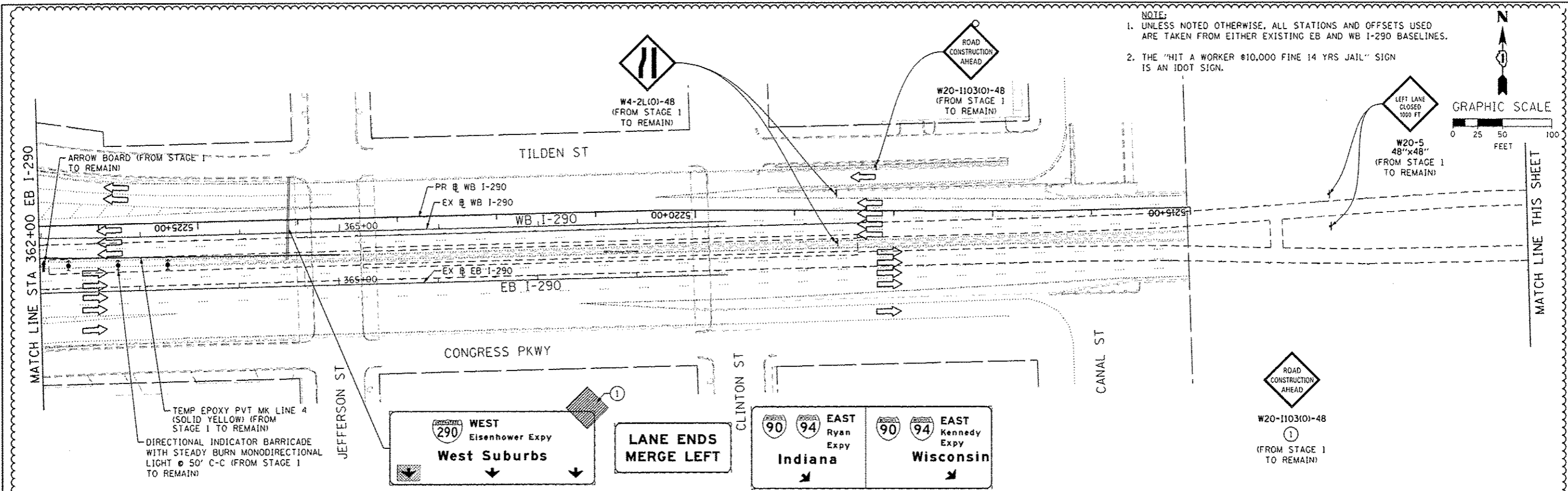
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CHECKED - DBM	REVISED -
DATE - 5/14/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	72
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



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DATE - 5/14/2013	REVISED -

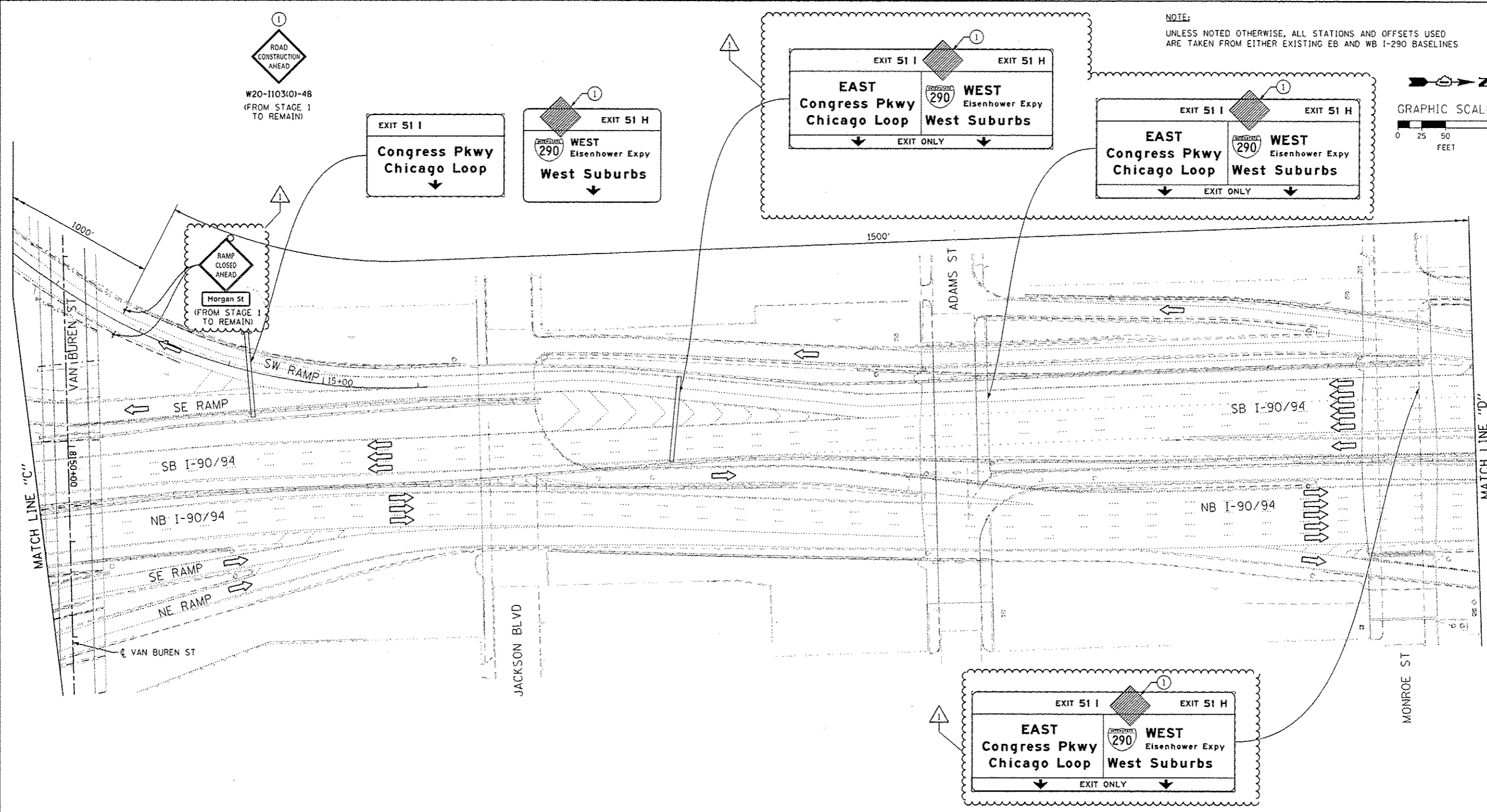
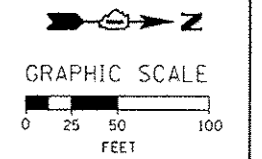
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
 STAGE 3**

SCALE: 1" = 50' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	73
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: C:\Users\chris\Documents\Projects\9025\9025.dwg



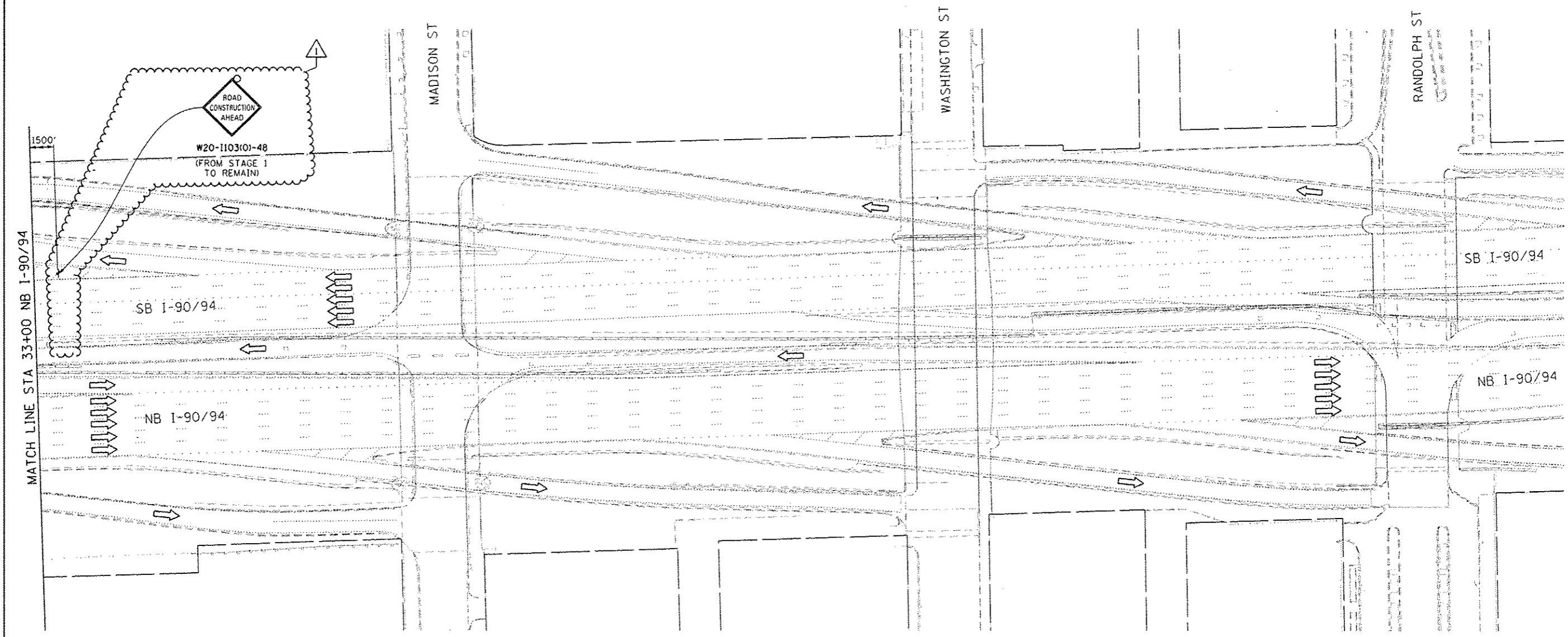
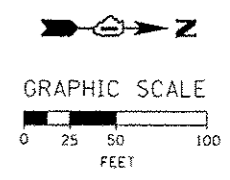
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL	
STAGE 3	
SCALE: 1" = 50'	SHEET 6 OF 7 SHEETS
STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	75
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



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PLOT DATE: 7/16/2013

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DATE -	5/14/2013	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

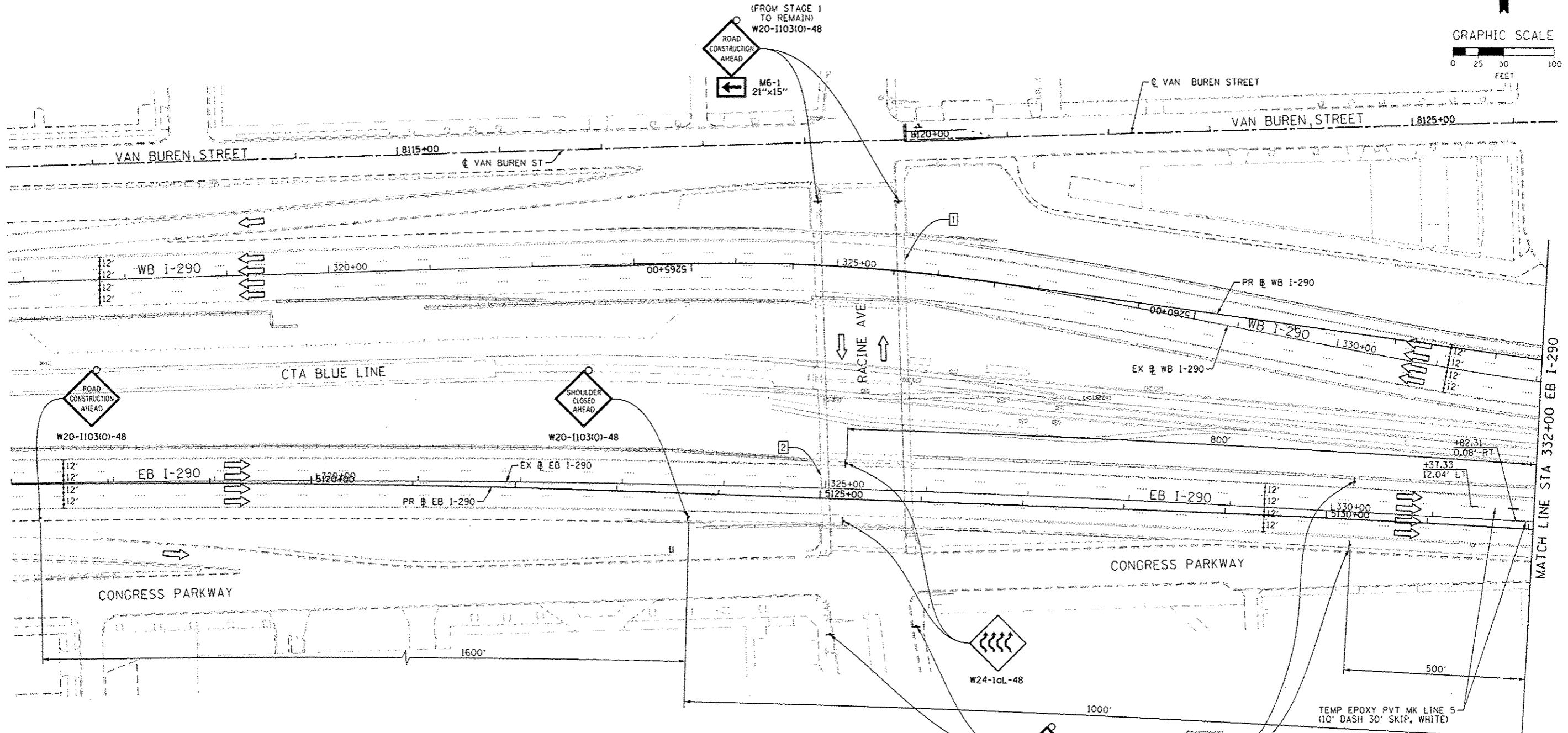
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 3

SCALE: 1" = 50' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	76
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



MATCH LINE STA 332+00 EB I-290

2 REMOVE, STORE, AND RE-ERECT OVERHEAD SIGN PANEL (SPECIAL)  
(PAID FOR IN STAGE 2)

**Congress Pkwy**  
Chicago Loop

**90 94 WEST**  
Kennedy Expy  
**Wisconsin**

**90 94 EAST**  
Ryan Expy  
**Indiana**

**EXIT 28A**  
Damen Ave  
3/4 MILE

**EXIT 28B**  
Ashland Ave  
1/4 MILE

WORK ZONE  
SPEED LIMIT  
**45**  
PHOTO ENFORCED  
SIXX FINE MINIMUM

W2-1115(0)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618

<b>AECOM</b> 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3276 PHONE 312 313-1100 FAX 312 313-4900	DIGB25-sh1-5taging4-B1.dgn	DESIGNED - OPS	REVISED - 7/19/2013
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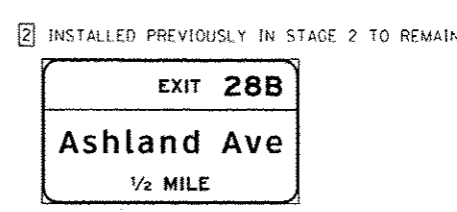
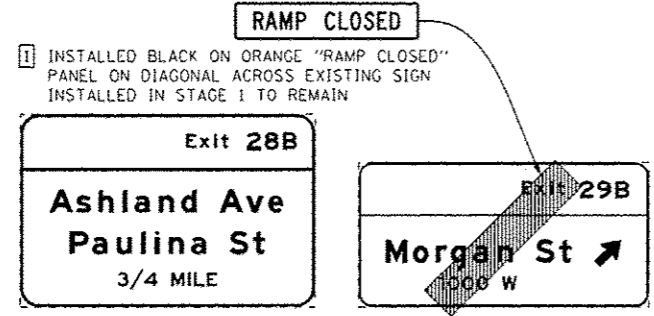
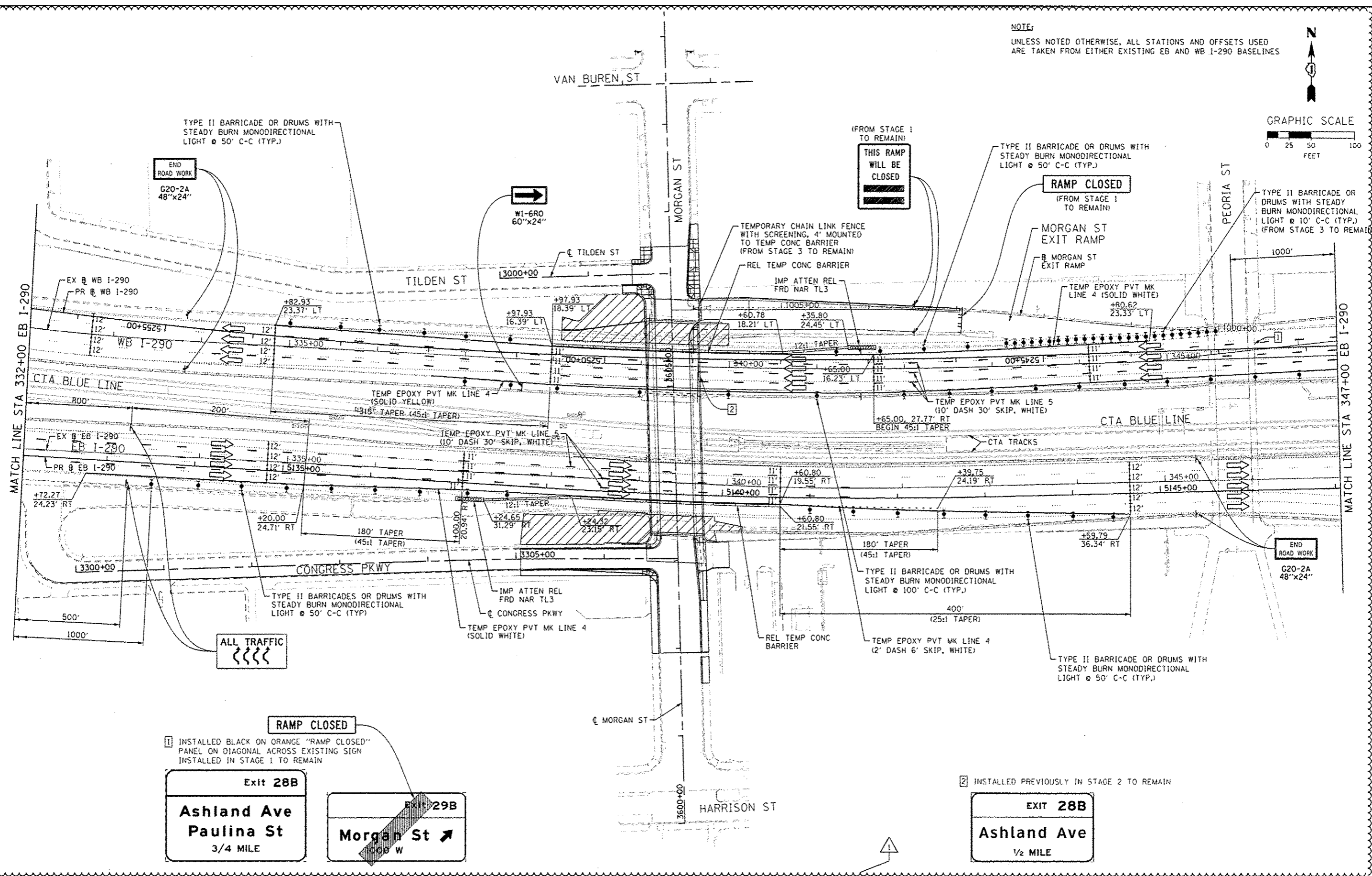
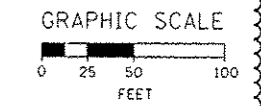
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4

SCALE: 1" = 50' SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	76A
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



1 INSTALLED BLACK ON ORANGE "RAMP CLOSED" PANEL ON DIAGONAL ACROSS EXISTING SIGN INSTALLED IN STAGE 1 TO REMAIN

2 INSTALLED PREVIOUSLY IN STAGE 2 TO REMAIN

<p>303 EAST Wacker Drive, Suite 1400 Chicago, IL 60601-3276 Phone: (312) 315-7700 Fax: (312) 315-6800</p>	016R#25-shit-Staging4-82.dgn	DESIGNED - OPS	REVISED - 7/19/2013
	USER NAME - chuan	DRAWN - PHP	REVISED -
	PLOT SCALE - 50.0000' / 1"	CHECKED - DBM	REVISED -
	PLOT DATE - 7/16/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4  
SCALE: 1" = 50' SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	76B
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

REMOVE, STORE, AND RE-ERECT OVERHEAD SIGN PANEL (SPECIAL) (RESTORE AFTER CONSTRUCTION IS COMPLETED - PAID FOR IN STAGE 1)

**EXIT TO MORGAN ST PROHIBITED**

(FROM STAGE 1 TO REMAIN)

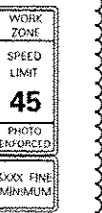


Morgan St  
STA. 18+90.00  
(NW RAMP)

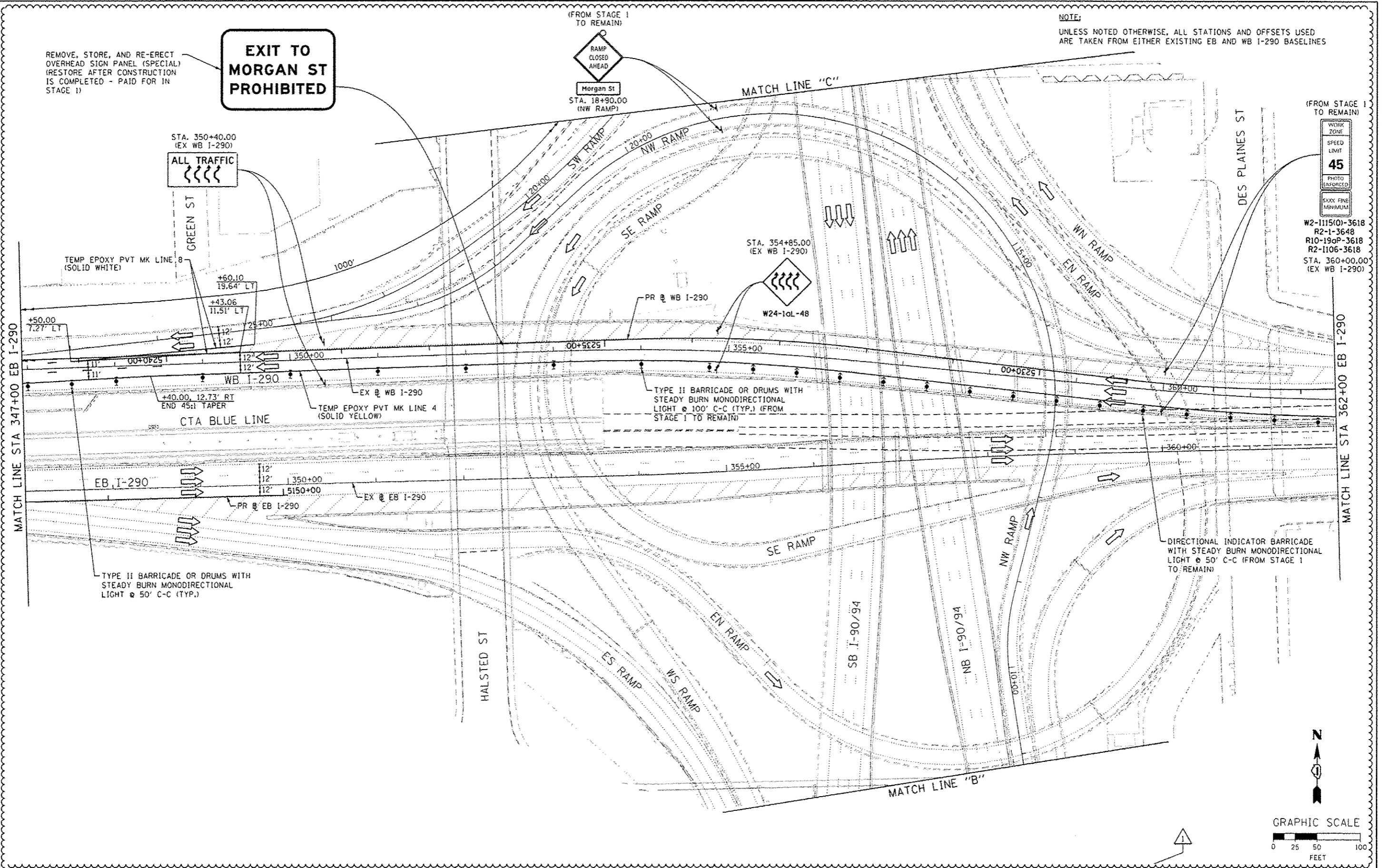
NOTE:

UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES

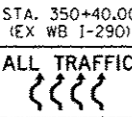
(FROM STAGE TO REMAIN)



W2-1115(0)-3618  
R2-1-3648  
R10-190P-3618  
R2-1106-3618  
STA. 360+00.00  
(EX WB I-290)



TEMP EPOXY PVT MK LINE 8 (SOLID WHITE)



STA. 350+40.00  
(EX WB I-290)

GREEN ST

+60.10  
19.64' LT

+43.06  
11.51' LT

+50.00  
7.27' LT

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

12'

CTA BLUE LINE

WB I-290

EX WB I-290

TEMP EPOXY PVT MK LINE 4 (SOLID YELLOW)

PR @ WB I-290

EX @ WB I-290

TYPE II BARRICADE OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT @ 100' C-C (TYP.) (FROM STAGE 1 TO REMAIN)

SE RAMP

EN RAMP

NW RAMP

WN RAMP

EN RAMP

ES RAMP

WS RAMP

NB I-90/94

SB I-90/94

DES PLAINES ST

HALSTED ST

MATCH LINE "A"

MATCH LINE "B"

MATCH LINE "C"

MATCH LINE "D"

MATCH LINE "E"

MATCH LINE "F"

MATCH LINE "G"

MATCH LINE "H"

MATCH LINE "I"

MATCH LINE "J"

MATCH LINE "K"

TYPE II BARRICADE OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' C-C (TYP.)

TYPE II BARRICADE OR DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT @ 100' C-C (TYP.) (FROM STAGE 1 TO REMAIN)

DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT @ 50' C-C (FROM STAGE 1 TO REMAIN)

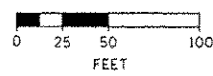
STA. 354+85.00  
(EX WB I-290)



W24-1aL-48



GRAPHIC SCALE



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PLOT SCALE = 50.0000 1 / in.  
PLOT DATE = 7/16/2013

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DATE -	REVISED -

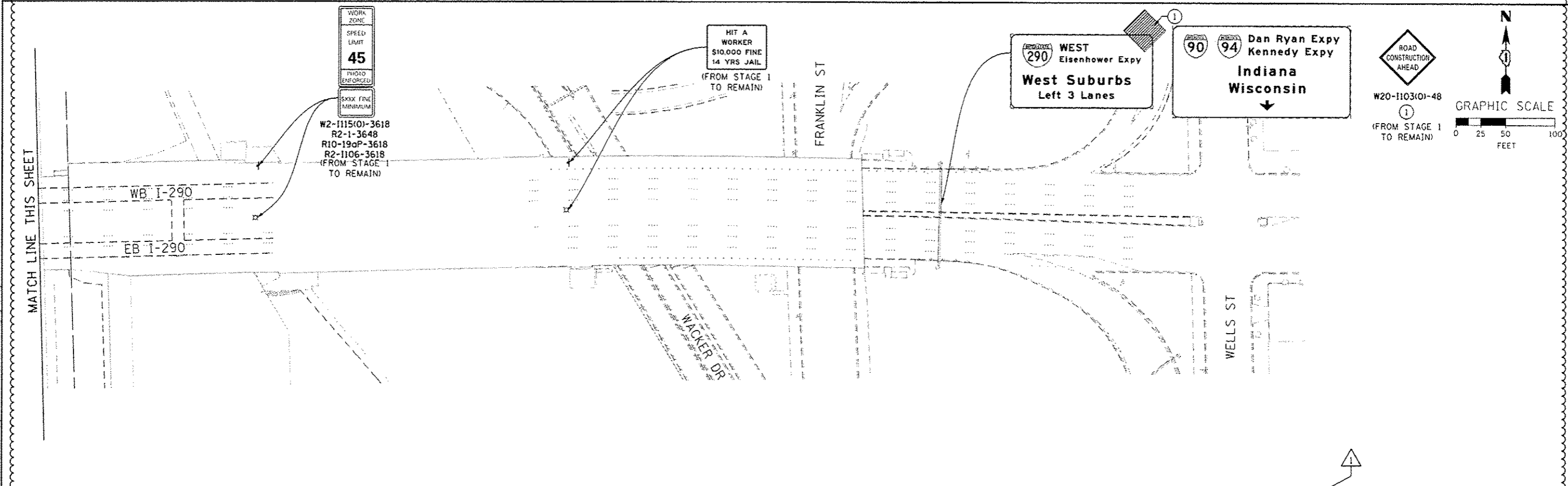
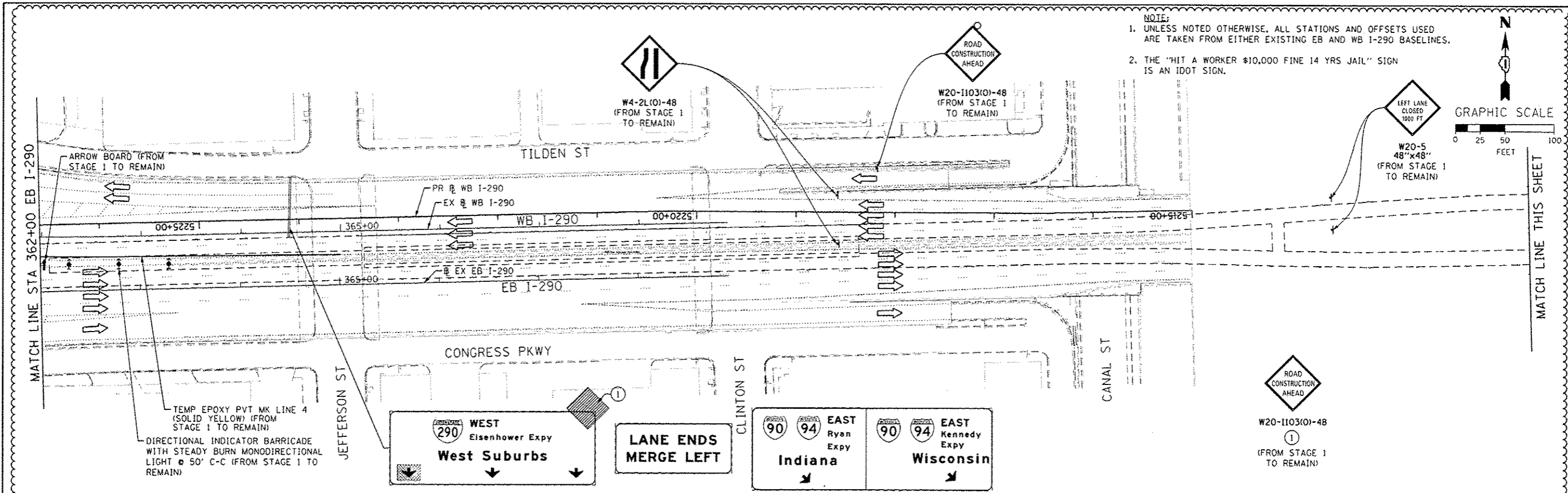
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4

SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	76C
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

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DESIGNED - OPS  
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 REVISED - 7/19/2013  
 REVISED -  
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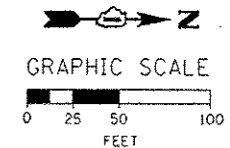
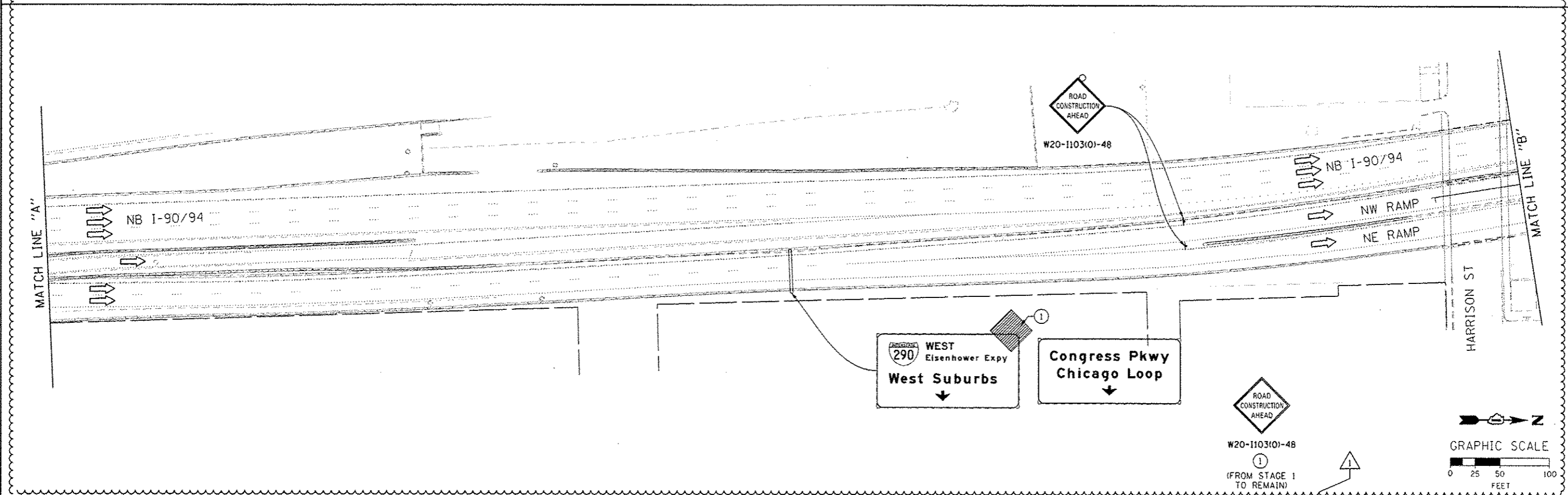
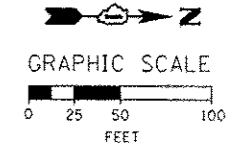
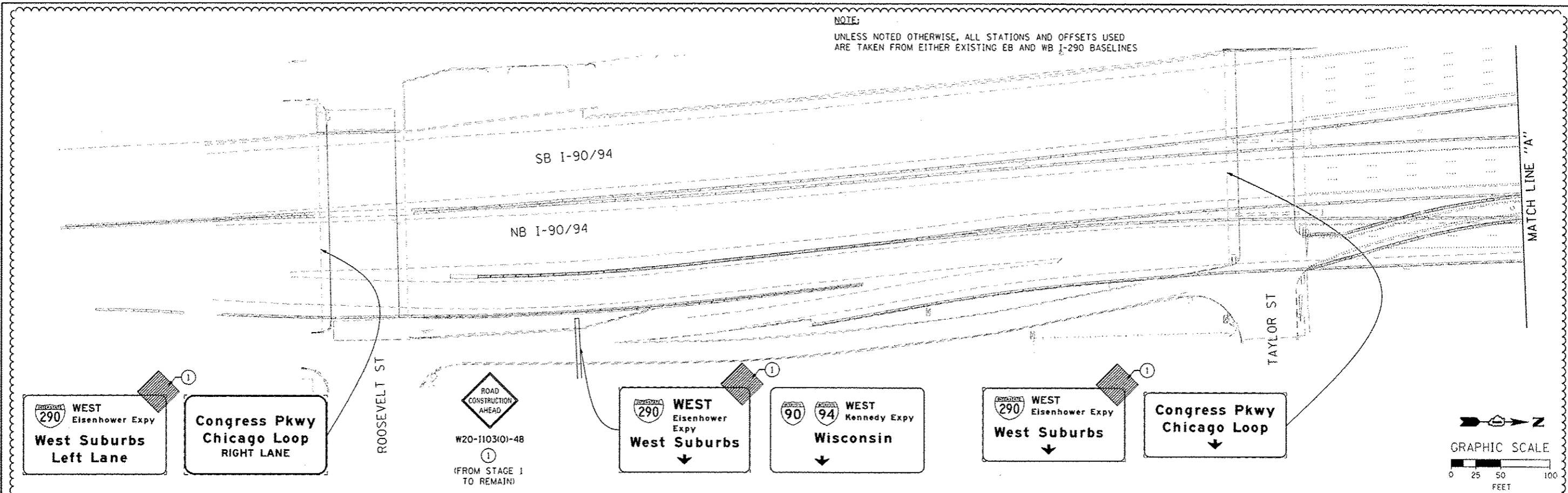
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
 STAGE 4

SCALE: 1" = 50' SHEET 4 OF 7 SHEETS STA. TO STA.

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	760
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



FILE PATH: C:\Users\AECOM\Desktop\AECOM\Projects\2013\2013-007R\2013-007R-05.dgn

<b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1400          CHICAGO, IL 60601-3216          PHONE: (312) 313-3700 FAX: (312) 313-8400</small>	DIGW25-shr-Staging4-85.dgn	DESIGNED - OPS	REVISED - 7/19/2013
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL**  
STAGE 4

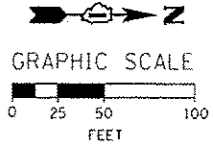
SCALE: 1" = 50' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 76E
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



ROAD CONSTRUCTION AHEAD  
W20-1103101-48  
1  
(FROM STAGE 1 TO REMAIN)

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



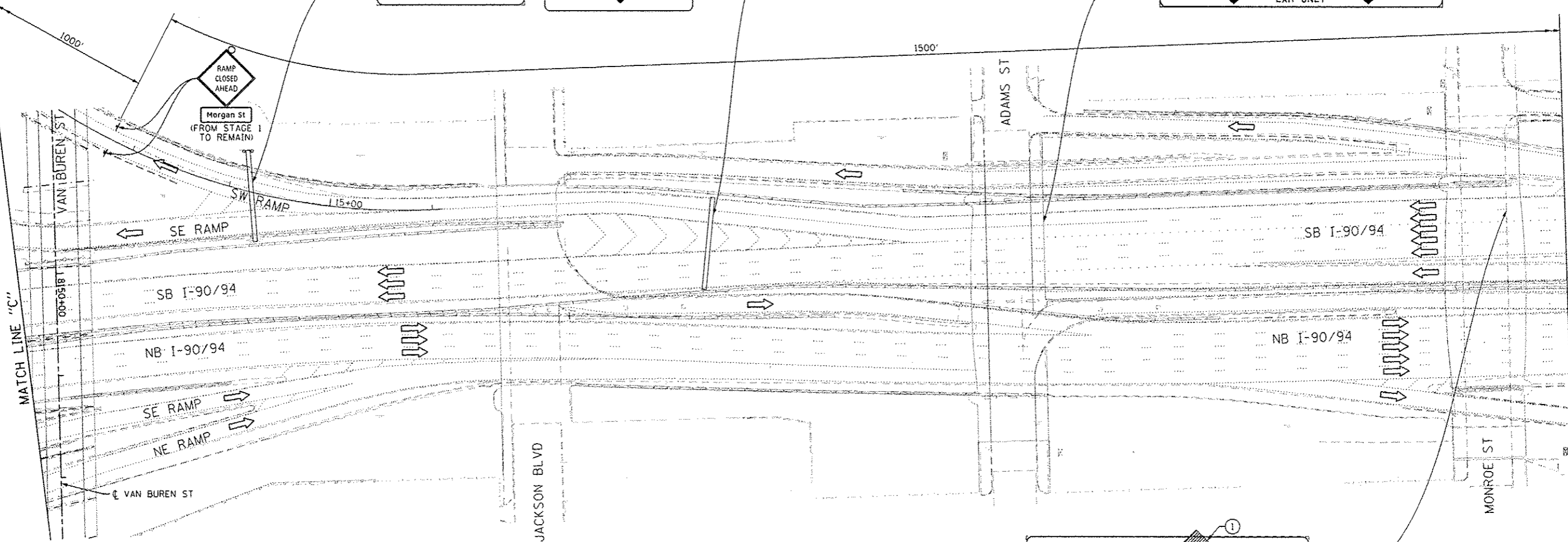
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CONGRESS PKWY  
CHICAGO LOOP

EXIT 51 H  
WEST  
Eisenhower Expy  
West Suburbs

EXIT 51 I EXIT 51 H  
EAST  
Congress Pkwy  
Chicago Loop  
WEST  
Eisenhower Expy  
West Suburbs  
EXIT ONLY

EXIT 51 I EXIT 51 H  
EAST  
Congress Pkwy  
Chicago Loop  
WEST  
Eisenhower Expy  
West Suburbs  
EXIT ONLY

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Congress Pkwy  
Chicago Loop  
WEST  
Eisenhower Expy  
West Suburbs  
EXIT ONLY



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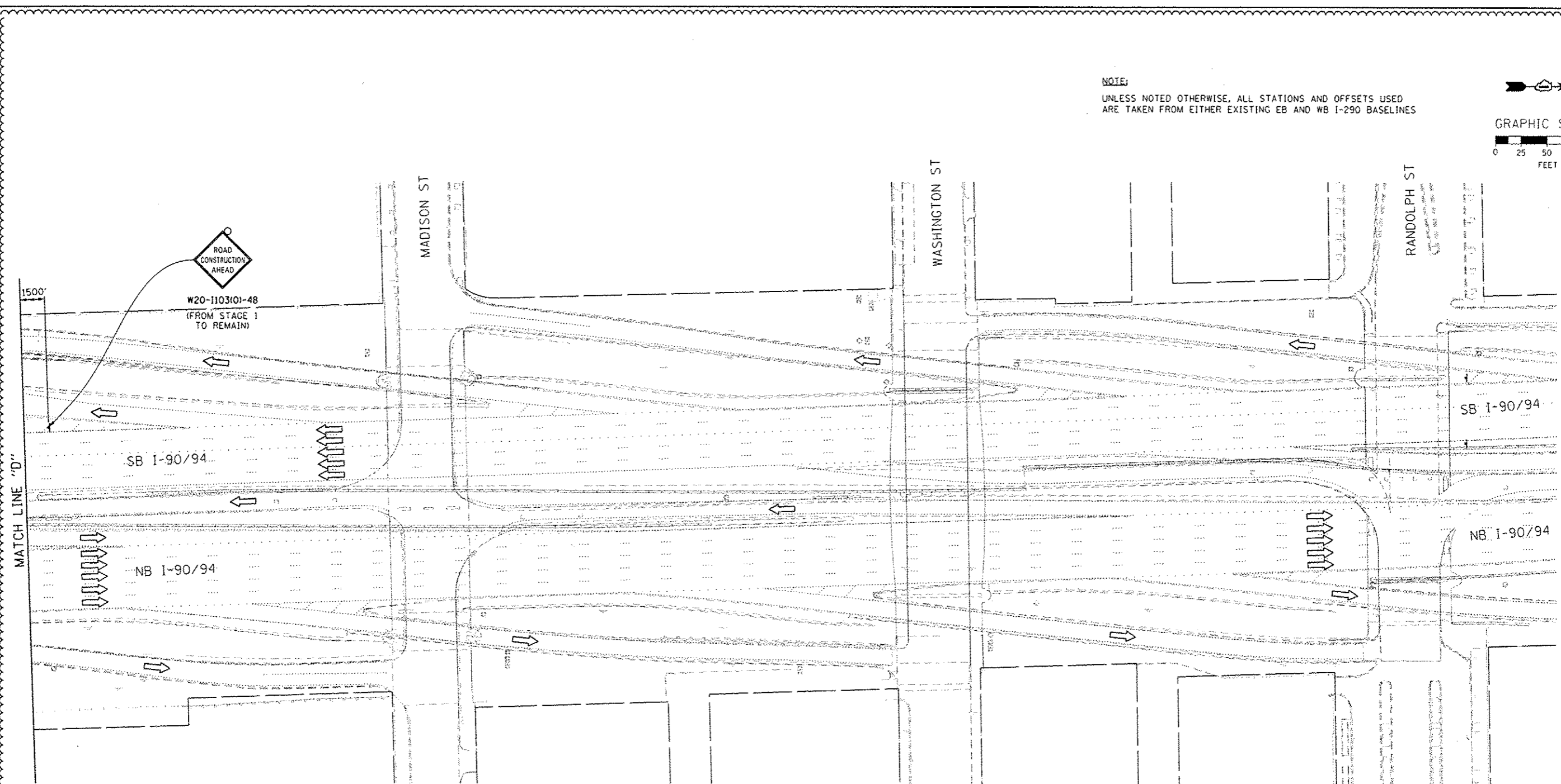
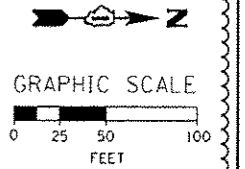
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4

SCALE: 1" = 50' SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	76F
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS NOTED OTHERWISE, ALL STATIONS AND OFFSETS USED  
ARE TAKEN FROM EITHER EXISTING EB AND WB I-290 BASELINES



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PLOT DATE - 7/16/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL  
STAGE 4

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 766
CONTRACT NO. 60W25				ILLINOIS FED. AID PROJECT

SCALE: 1" = 50' SHEET 7 OF 7 SHEETS STA. TO STA.

**TEMPORARY EROSION CONTROL SCHEDULE**

STAGES	MULCH, METHOD 4	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
	ACRE	POUND	FOOT
STAGE 1	0.13	25.95	526
STAGE 2	0.18	36.39	958
STAGE 3	0.23	45.28	424
TOTAL	0.54	107.62	1908
ROUNDED TOTAL	0.75	107.75	1908



**PERMANENT EROSION CONTROL SCHEDULE**

	POTASSIUM FERTILIZER NUTRIENT	NITROGEN FERTILIZER NUTRIENT	SEEDING, CLASS 2A	EROSION CONTROL BLANKET
	POUND	POUND	ACRE	50 YD
PERMANENT CONDITION	63	63	0.50	1386.22
TOTAL	63	63	0.50	1386.22
ROUNDED TOTAL	63	63	0.50	1387

FILE PATH : p:\1198037\pmt\ascom\line\ba\1198037\EC\Schedule-01\Documents\01\_Americas\Transportation\6269399\_Civil\Phase-11\022\_COP\_006\_Roadway\_Sheets\6269399\_Contract\01626939-01\EC-Schedule-01



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 PLOT DATE : 7/6/2013

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 DATE - 6/17/2013  
 REVISED - 7/19/2013  
 REVISED -  
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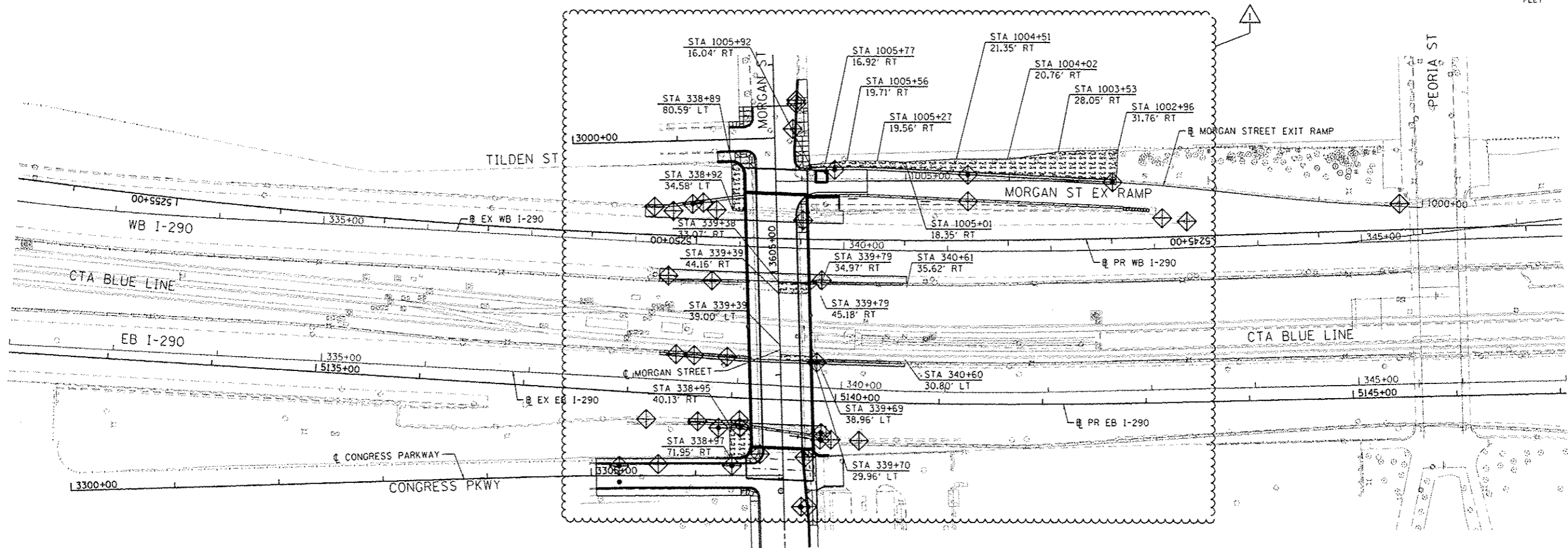
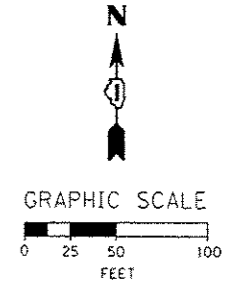
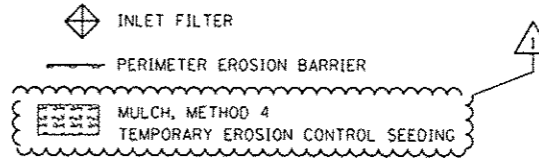
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SCHEDULES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	77
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

**LEGENDS**



**EROSION CONTROL GENERAL NOTES:**

1. THE CONSTRUCTION LIMITS WILL STAKED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGES IN CONSTRUCTION LIMITS.
2. EROSION CONTROL ITEMS ARE CONSIDERED HIGH PRIORITY ITEMS IN THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF SPECIFICATION TO NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
3. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
5. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPROVED PER SUB-STAGE AS SOON AS ROUGH GRADING IS COMPLETED IN A SECTION, BUT IN NO CASE MORE THAN 7 DAY AFTER THE CONSTRUCTION ACTIVITIES IN THAT PORTION OF THE SITE HAVE TEMPORARILY OR PERMANENTLY CEASED WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
7. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN TO HAVE STABILIZED CONNECTION BETWEEN THE UPSTREAM AND THE DOWNSTREAM ENDS OF STORM WATER CONVEYANCE UNDER CONSTRUCTION WHEN RAIN IS FORECASTED DURING STORM SEWER CONSTRUCTION, SO THAT FLOW WILL NOT CAUSE EROSION.
8. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE SILT FENCE AND TEMPORARY SEEDING.
9. AN ESTIMATED ADDITIONAL QUANTITY OF 25 EACH OF INLET FILTERS HAS BEEN ADDED TO THE CONTRACT FOR WHEN REPLACEMENT IS REQUIRED FROM INSPECTION OF THE ENGINEER.

FILE PATH: p:\11388037\proj\11388037\p01\11388037\Documents\11388037\11388037\Roadway\Drawings\60W25\Stage1\60W25-1-1.dwg



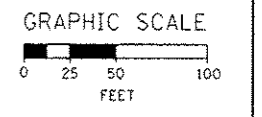
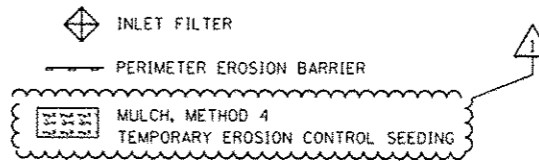
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USER NAME: r.chun	DRAWN - OPS	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 7/6/2013	DATE - 6/17/2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

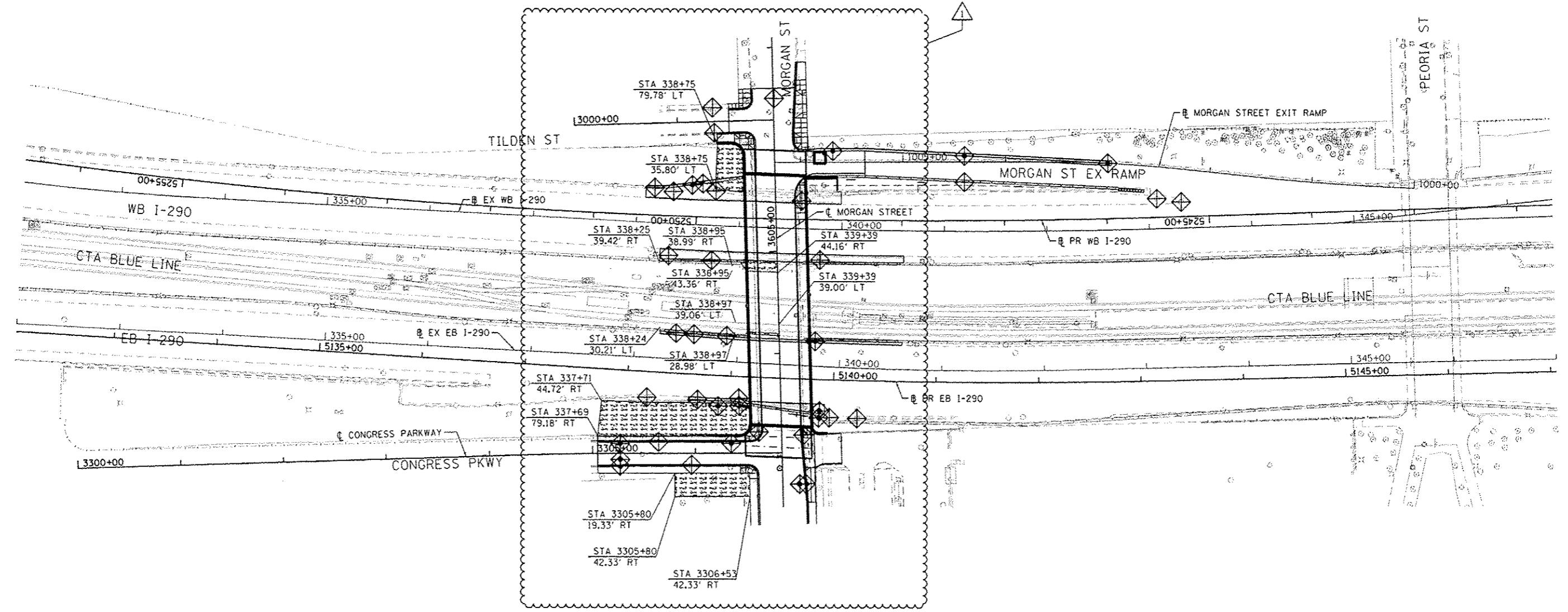
**EROSION AND SEDIMENTATION CONTROL PLAN**  
**STAGE 1**  
 SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	79
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

**LEGENDS**



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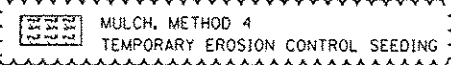
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

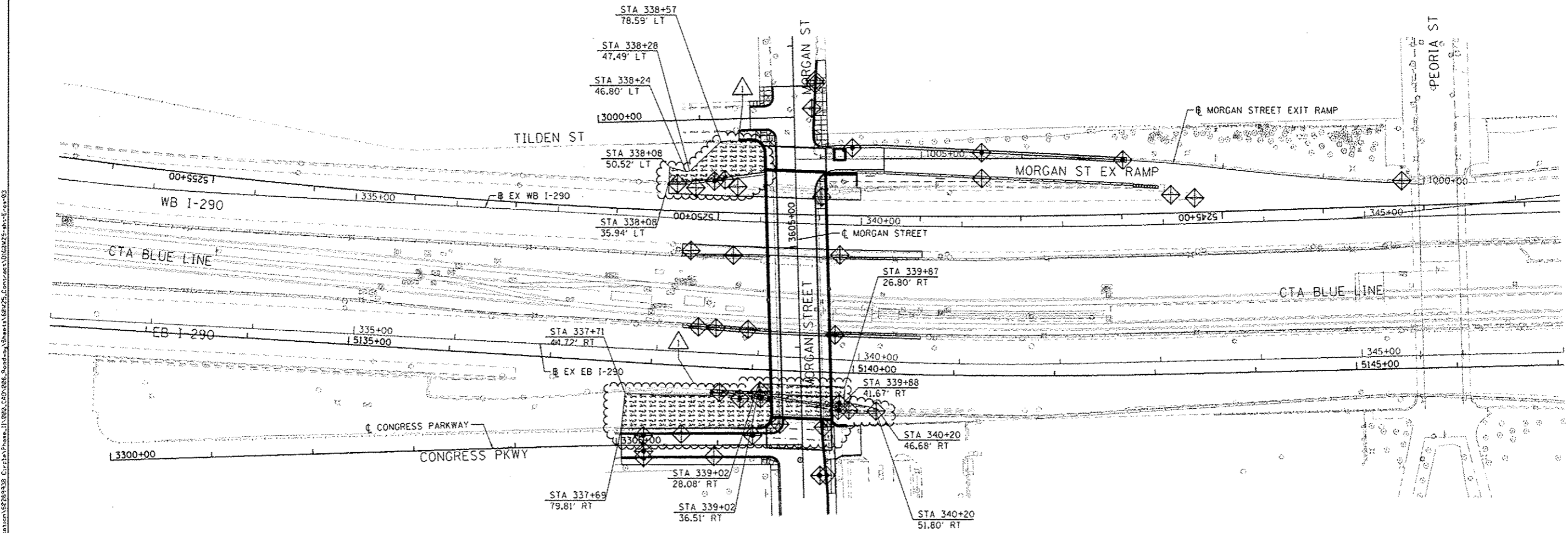
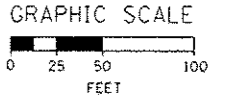
**EROSION AND SEDIMENTATION CONTROL PLAN**  
**STAGE 2**  
 SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 80
CONTRACT NO. 60W25				
[ILLINOIS] FED. AID PROJECT				



**LEGENDS**

-  INLET FILTER
-  PERIMETER EROSION BARRIER
-  MULCH, METHOD 4  
TEMPORARY EROSION CONTROL SEEDING



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 303 EAST WACKER DRIVE, SUITE 1400  
 CHICAGO, IL 60601-2276  
 PHONE: (312) 373-7700 FAX: (312) 373-4400



DIGW25-eh-Eros-03	DESIGNED - OPS	REVISED - 7/19/2013
USER NAME: chun	DRAWN - OPS	REVISED -
PLOT SCALE: 50.0000' / 1"	CHECKED - DBM	REVISED -
PLOT DATE: 7/6/2013	DATE - 6/17/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN  
STAGE 3**

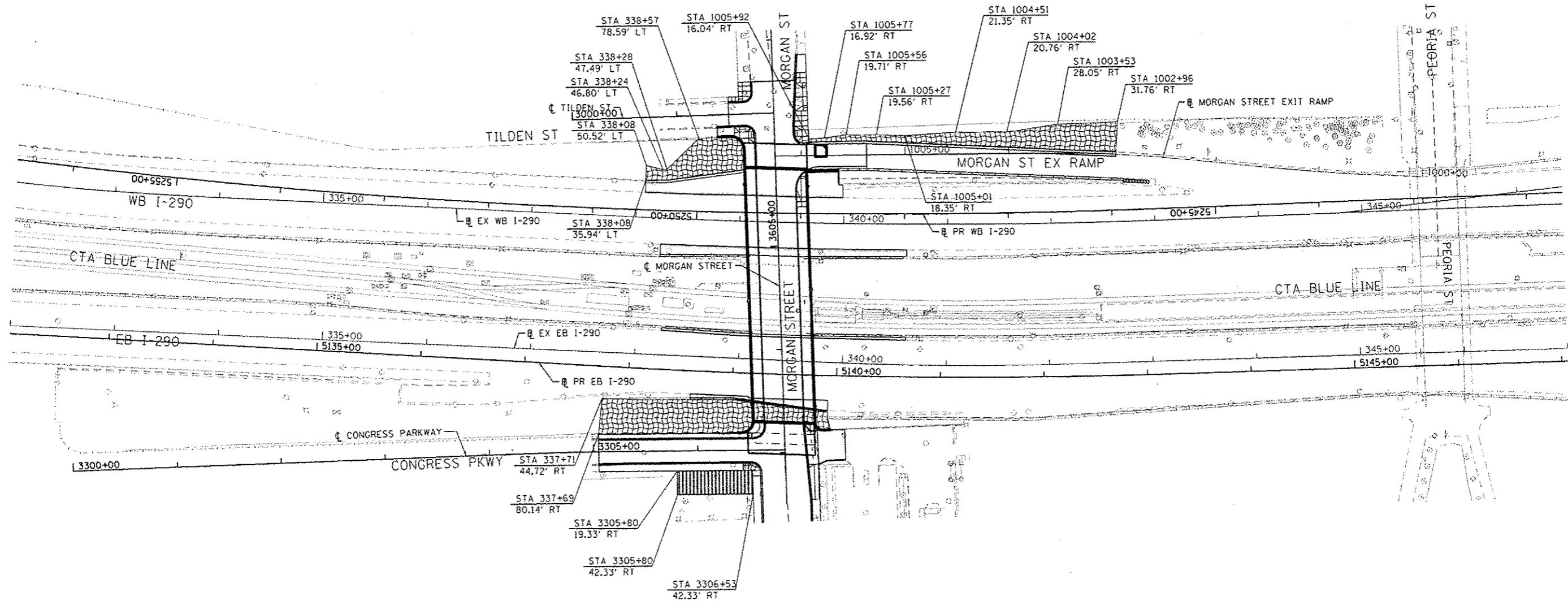
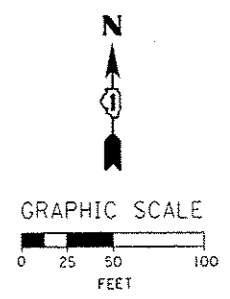
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	81
CONTRACT NO. 60W25				ILLINOIS FED. AID PROJECT

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. TO STA.

**LEGENDS**

- EROSION CONTROL BLANKET SEEDING, CLASS 2A
- NITROGEN FERTILIZER NUTRIENT
- POTASSIUM FERTILIZER NUTRIENT

- TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT



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0168W25-sh1-Perf-Cas-01  
 USER NAME: chun  
 PLOT SCALE: 58.8800' / in.  
 PLOT DATE: 7/6/2013

DESIGNED - OPS	REVISED - 7/19/2013
DRAWN - OPS	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

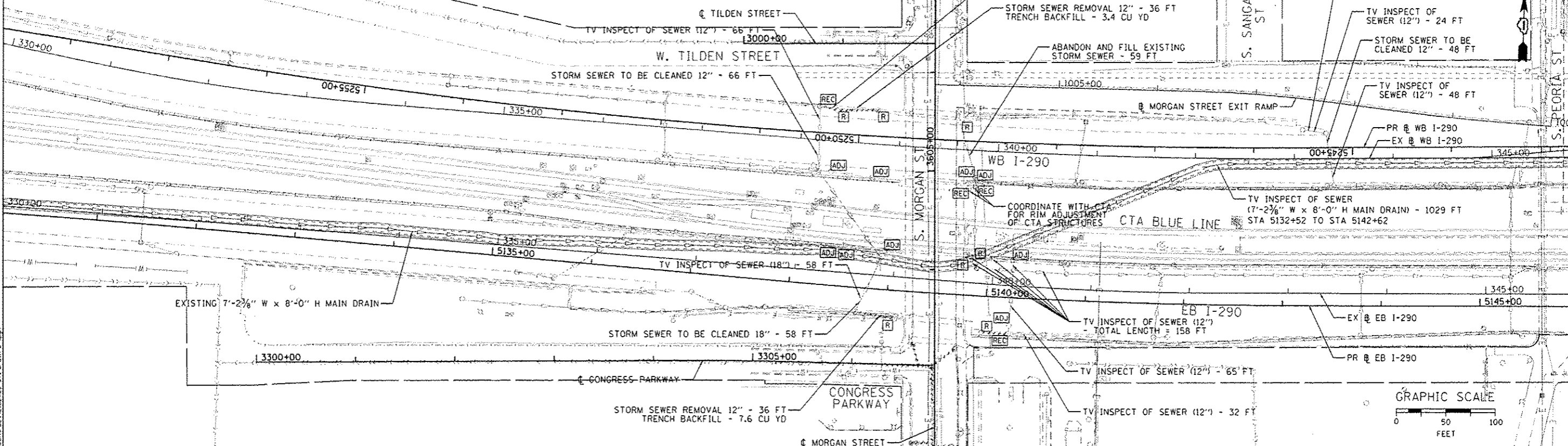
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN**

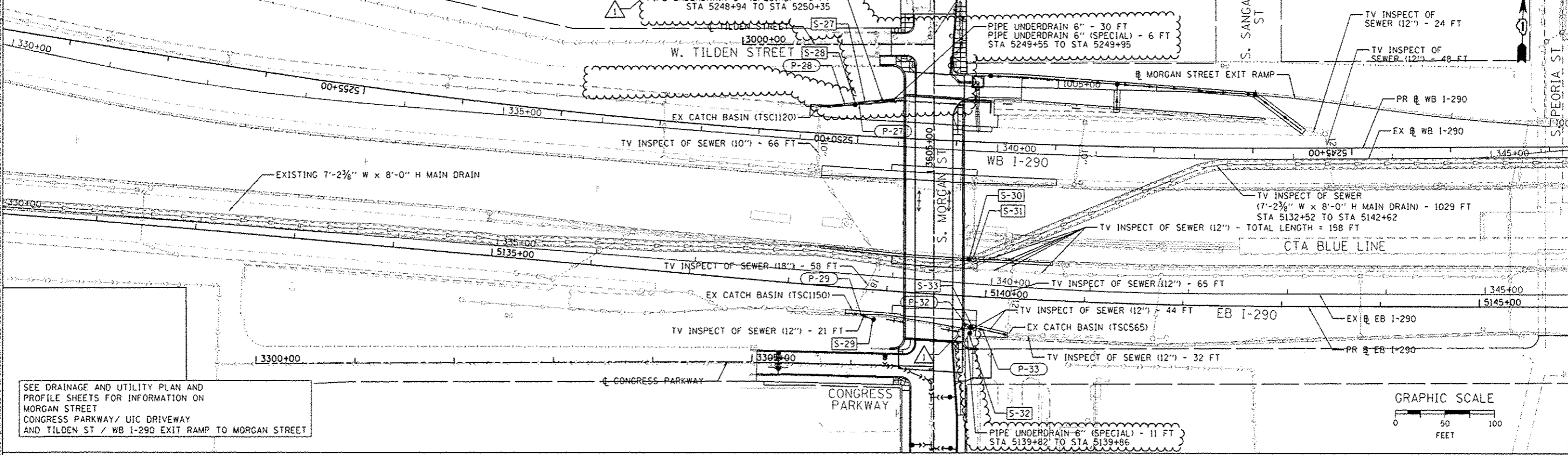
SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	82
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

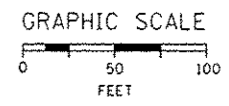
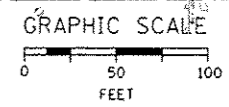
**EXISTING CONDITIONS**



**PROPOSED CONDITIONS**



SEE DRAINAGE AND UTILITY PLAN AND PROFILE SHEETS FOR INFORMATION ON MORGAN STREET CONGRESS PARKWAY/ UIC DRIVEWAY AND TILDEN ST / WB I-290 EXIT RAMP TO MORGAN STREET



D:\60W25\st-drain\84.dgn  
 USER NAME: chluo  
 PLOT SCALE: 50.0000 1" = 50'  
 PLOT DATE: 7/16/2013

DESIGNED - DMS	REVISED - 7/19/2013
DRAWN - DMS	REVISED -
CHECKED - AFC	REVISED -
DATE - 6/17/2013	REVISED -

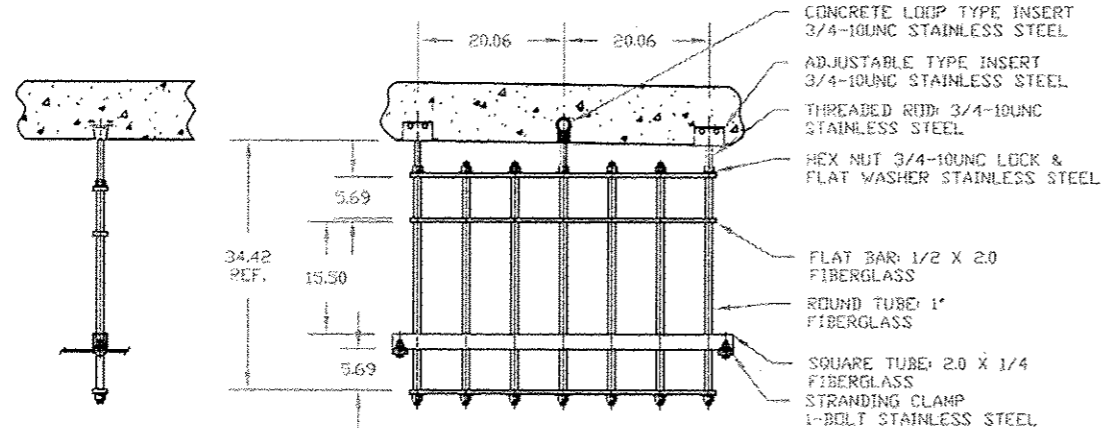
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN  
 I-290  
 SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

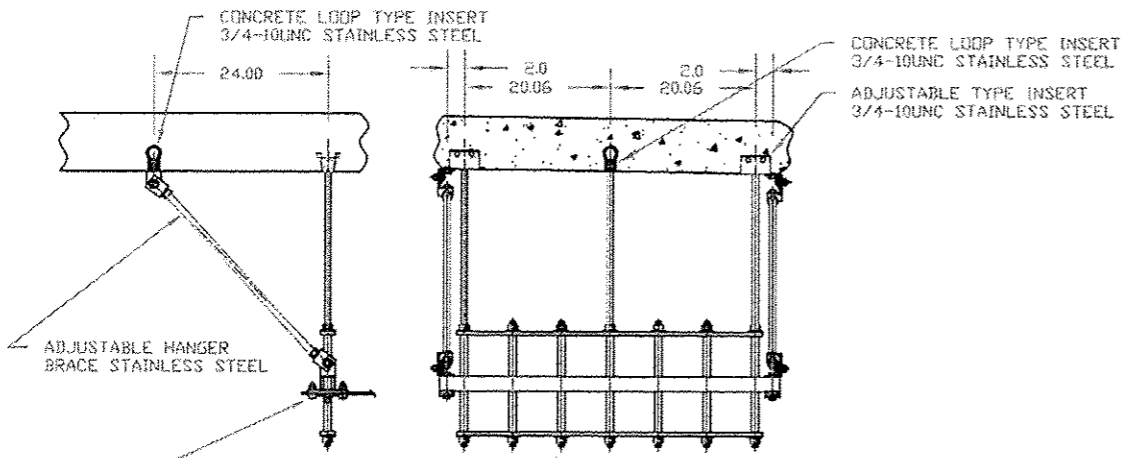
F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 86
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

This drawing is the property of Condux International, Inc. and the information thereon is to be treated as confidential. It is not to be used, copied or disclosed to outside parties without our written consent.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	L.O	ADDENDUM 1	07/19/2013	BRIAN



STANDARD SUPPORT HANGER WITH STRANDING CLAMPS



ABUTMENT SUPPORT HANGER WITH STRANDING CLAMPS AND BRACING

Condux International, Inc. Support hanger meet the following specifications  
 Fiberglass Items  
 Flat Bar: 1/2 x 2.0  
 Round Tube: 1.0" O.D. .105 wall  
 Square Tube: 2 x 2 x 1/4  
 Fiberglass reinforced with polyester resin with surface veil for better weathering, resin shall contains u.v. inhibitor. Fiberglass is made with continuous strand mat and uni-directional roving.  
 Gray in color  
 Tensile Strength (ASTM D 638) 30,000 PSI  
 Tensile Modulus (ASTM D 638) 2.3E6 PSI  
 Flexural Strength (ASTM D 790) 30,000 PSI  
 Flexural Modulus (ASTM D 790) 2.3E6 PSI  
 Compressive Strength (ASTM D 695) 20,000 PSI  
 Compressive Modulus 1.4E6 PSI  
 Yield shear strength 2000 PSI  
 Barcol hardness 50  
 Dielectric strength (ASTM D 149) 200 VPM Min.

Stainless steel Hardware Items  
 Threaded Rod  
 Threaded rod meets (ASTM/ASME B1.1) (ASTM A307 Grade A) (Tensile Strength 60,000 PSI)  
 Hexnut  
 Hexnut meets (ANSI/ASME B18.2.2) Material: 316 Stainless steel (ASTM F594)  
 Flatwasher  
 Flatwasher meets (ANSI/ASME B18.22.1) Material: 316 stainless steel (ASTM F436)  
 Lockwasher  
 Lockwasher meets (ANSI/ASME B18.21.1) Material: 316 Stainless steel (ASTM F436)  
 Stranding Items  
 Stranding Clamps (1-Bolt & 3-Bolt)  
 Material: 1/4 x 1.5 (316 Stainless Steel)  
 Stranding Wire  
 Cable: 1/4" Dia (7 X 19 Steel Aircraft) 304 Stainless Steel  
 Bracing  
 Adjustable hanger attachment brackets  
 Material: angle 2.5 x 2.5 x .25 (316 Stainless steel)

FOR INFORMATION ONLY  
 WORK TO BE PERFORMED BY OTHERS  
 WITH THE EXCEPTION OF PLACEMENT  
 OF INSERTS INTO SUPERSTRUCTURE

NOTE  
 NO PART OF THE CONDUIT SUPPORT HANGER  
 CAN EXTEND BELOW THE BRIDGE DECK  
 (W36X182) BEAMS  
 EXTENDED RODS MAY NEED TO BE ALTERED

CURRENT BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY	UNIT
1	26125F3S24	ABUTMENT CONDUIT SUPPORT HANGER 2 HIGH X 6 WIDE FIBERGLASS AND STAINLESS STEEL, OPENING FOR TWELVE 5' FGL DUCTS THREADED RODS THREE # 3/4-10UNC X 40.00 LONG	4	EA.
2	TBA	STANDARD CONDUIT SUPPORT HANGER 2 HIGH X 6 WIDE FIBERGLASS AND STAINLESS STEEL, OPENING FOR TWELVE 5' FGL DUCTS THREADED RODS THREE # 3/4-10UNC X 40.00 LONG	46	EA.
3	08610236	HANGER BRACE ADJUSTABLE 3/8 INCH STAINLESS STEEL	12	EA.
4	09409990	CONCRETE INSERT: 3/4-10 LOOP TYPE, STAINLESS STEEL	56	EA.
5	09558900	CONCRETE INSERT SETTING PLUG: 3/4-10	56	EA.
6	TBA	CONCRETE INSERT ADJUSTABLE: 3/4-10 STAINLESS STEEL	100	EA.
7	08408950	STRANDING WIRE: 1/4 X 300 FT., STAINLESS STEEL	2	EA.
8	08409404	GUY STRAND CLAMP 3-BOLT, STAINLESS STEEL	12	EA.
9	08409504	GUY STRAND CLAMP 1-BOLT, STAINLESS STEEL	08	EA.
10	08460053	CONDUIT FIBERGLASS: 5' IPS, MW (5.57 O.D. X .096 WALL) MEETING NEMA TC-14A	6240	FT.
11	08460153	CONDUIT STOP COUPLING 5' IPS MW	108	EA.
12	08460453	CONDUIT EXPANSION JOINT O-RING TYPE: 5' IPS MW	48	EA.
13	08460953	CONDUIT SPLIT STOP RING: 5' IPS MW	48	EA.
14	08461553	CONDUIT ADAPTER: 5' IPS MW TO 5' GRC	48	EA.
15	TBA	CONDUIT SWEEP: 5' IPS MW 22.50 DEGREE X 36" RADIUS	48	EA.
16	08463402	CONDUIT EPOXY ADHESIVE CARTRIDGE	60	EA.
17	02288990	CONDUIT EPOXY ADHESIVE GUN	1	EA.

General Construction, Hanger and Conduit Notes  
 1.0 Recommended spacing between Support is 10 foot.  
 2.0 Support Hanger Material shall be manufactured using 316 stainless steel and fiberglass components.  
 3.0 Conduit is 5 inch Fiberglass with minimum wall thickness of .096 inch meeting NEMA TC-14A Specs.  
 4.0 Conduit joints shall be positive locking adhesive bonded bell and spigot.  
 5.0 Conduit expansion joints shall be sliding sleeve with provision for 8 inch of travel.  
 6.0 Bridge abutments must have a block out or be sleeved to allow the fiberglass conduit to pass through. After conduit is placed through abutment seal up opening with state approved sealant.  
 7.0 Place concrete inserts for future support system. Hangers will be installed at a later date.  
 8.0 Conduit support hangers weight 2850 LBS total  
 Fiberglass conduit weight 7820 LBS total  
 cable weight weight 45,611 LBS total

Grand total being placed on the bridge is 56281 LBS. OR 199.00 LBS/FT.

DRAWING APPROVAL  
 I APPROVE THIS DRAWING FOR MANUFACTURING  
 DATE: \_\_\_\_\_  
 Note:  
 ALL MEASUREMENTS ARE IN INCHES UNLESS NOTED OTHERWISE

CONDUIT SUPPORT HANGER DETAIL AND BILL OF MATERIALS FOR THE CONDUIT RUN BETWEEN GIRDERS 5 & 6 and 7 & 8		CONDEX INTERNATIONAL, INC. MANKATO MN PH. 800-533-2077	
WEIGHT: 0.0 LBS EA		SIZE	FSCM NO.
QUOTE NO. 3985211287		DWG NO.	REV 1.0
SCALE 1/2		DATE: 06-06-2013	SHEET: CONDUX 3 OF 3
			SHEET 92J OF 317

**GENERAL NOTES:**

- ALL WORK SHALL BE FURNISHED AND INSTALLED PER COMED UNDERGROUND DISTRIBUTION CONSTRUCTION STANDARDS BOOK AND UNDERGROUND DISTRIBUTION MATERIAL STANDARDS BOOK.
- 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, 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**

- 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-281 (41).

BY: STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS, DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DATED: 1951
- CADD BACKGROUNDS AND STRUCTURAL INFORMATION FROM PROPOSED BRIDGE DRAWINGS:
 

TITLE: MORGAN STREET BRIDGE AT I-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, LLC, 4415 W. HARRISON ST. SUITE 231 HILSIDE, IL 60162

DATED: 5/14/2013

**STRUCTURAL STEEL NOTES:**

- ALL STRUCTURAL STEEL, EXCEPT ANCHOR BOLTS, 3/4", IDENTIFIED AS "BY IDOT CONTRACTOR" AND DETAILED ON SHEETS 92A THROUGH 92G, 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 CONSTRUCTION.
- MATERIAL PROPERTIES FOR STRUCTURAL STEEL FURNISHED TO CONTRACTOR BY COMED MUST MEET THE FOLLOWING CRITERIA:
 

a. W & HP-SHAPES	ASTM A992 GR 50
b. CHANNELS & ANGLES	ASTM A36
c. PLATES & BARS	ASTM A36
d. THREADED RODS	ASTM F1554 GR 36
e. HSS SHAPES	ASTM A500 GR B
f. BOLTS	ASTM A325-N U.N.D.
- 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.
- ALL WELDS SHALL CONFORM TO AWS D11 "STRUCTURAL WELDING CODE - STEEL" WITH E-70XX ELECTRODES, UNLESS NOTED. WELDING SHALL ONLY BE DONE BY AWS CERTIFIED WELDERS.
- UNLESS OTHERWISE SHOWN, PROVIDE 1/4" 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.
- SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
- W-SHAPES SHOWN ABOVE MAY BE SUBSTITUTED FOR STRONGER MEMBERS WITH APPROVAL OF ENGINEER OF RECORD.

**PILE NOTES:**

- 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 EVALUATED.
- 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 FHWA RECOMMENDATIONS FOR TYPE "B" MICROPILES.
- MICROPILES WERE DESIGNED FOR 40 KIPS COMPRESSION. NO MICROPILE LOAD TESTING IS SPECIFIED FOR THIS PROJECT.
- CONSTRUCTION OVERSIGHT SHALL BE PROVIDED BY QUALIFIED OTHERS.
- STEEL CASING SHALL BE API N80 7.0-IN X 0.231" WALL FLUSH-THREAD PIPE WITH 80 KSI YIELD STRENGTH.
- 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.
- THIS DESIGN IS VALID ONLY FOR THIS SITE.
- ENGINEER IS NOT RESPONSIBLE FOR THE HANDLING, DISPOSAL, OR TREATMENT OF CONTAMINATED GROUND WATER.
- 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 EASEMENTS.
- ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL, QUALITY ASSURANCE, CHANGED CONDITIONS OR PROBLEMS RESULTING FROM IMPROPER CONSTRUCTION TECHNIQUES.
- ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.
- 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	BY IDOT CONTRACTOR
MICRO-PILES	EACH	4	BY IDOT CONTRACTOR
ANCHOR BOLTS, 3/4"	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

**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)



STRUCTURAL ENGINEER  
 EXPIRES 11-30-2014  
 Andrew J. Schwary  
 SIGNATURE  
 07-19-2013  
 DATE



**HBK ENGINEERING, L.L.C.**  
 221 WEST VAN BUREN, SUITE 100  
 CHICAGO, ILLINOIS 60607  
 PHONE: (312) 432-6074 FAX: (312) 432-6211  
 STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, REGISTRATION NO. 124664508

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN HBK ENGINEERING IS NOT THE RESPONSIBILITY OF HBK ENGINEERING

PROJECT NO. 13-503

REV.	DATE	DESCRIPTION	BY	CHECKED	DATE

MORGAN ST. BRIDGE REBUILD  
 CHICAGO, IL  
 GENERAL NOTES

13-503 AS NOTED JAH  
 CAD FILE NO. SCALE PROJECT DESIGNER  
 JAH  
 PROJECT ENGINEER EXTENSION DATE  
 PROJECT ENGINEER EXTENSION DATE  
 DWG. NO. C1  
 SHEET 92A OF 317



COMED UTILITY SUPPORT - SEQUENCE OF CONSTRUCTION

1. BEFORE IDOT CONSTRUCTION COMMENCES:
  - i. COMED CONTRACTOR TO:
    1. REMOVE EXISTING DUCT SUPPORT SYSTEM FROM EXISTING BRIDGE DECK.
    2. REMOVE EXISTING ASBESTOS INSULATION (INCLUDING ASBESTOS FROM CITY OF CHICAGO FACILITIES ON BRIDGE AND APPROACHES).
    3. REMOVE EXISTING CONDUITS AND ENCLOSE EXISTING CABLES IN WOODEN BOX.
    4. SUPPORT BOX OF DUCTS ON WOOD LAGGING PER IDOT SPECIFICATIONS (PROTECTIVE SHIELD SPECIAL) BETWEEN EXISTING STEEL W33 BRIDGE BEAMS.
2. IDOT CONTRACTOR REMOVES EXISTING EAST HALF OF CONCRETE BRIDGE DECK.
3. IDOT CONTRACTOR INSTALLS TEMPORARY SHORING TOWER AND EAST W36 TEMPORARY SUPPORT BEAMS PER HBK PLANS. COMED CONTRACTOR PROVIDES AND INSTALLS EAST W24 TEMPORARY SUPPORT BEAMS AND ALL WOODEN BOX SUPPORTS OF DUCTS AND ASSOCIATED CABLES ON W36 SUPPORT BEAM TO BE FURNISHED BY COMED AND INSTALLED BY IDOT CONTRACTOR.
4. IDOT CONTRACTOR TO REMOVE EXISTING W33 STEEL BEAMS FOR THE EAST HALF OF THE BRIDGE.
5. IDOT CONTRACTOR REMOVES TOP WALLS OF EXISTING ABUTMENTS FOR THE EAST HALF OF THE BRIDGE. EXISTING ABUTMENT STEMS TO REMAIN IN PLACE FOR SUPPORT OF COMED SUPPORT STRUCTURE.
6. IDOT CONTRACTOR TO REMOVE APPROACH SLAB ASPHALT/CONCRETE STRUCTURE.
7. COMED CONTRACTOR TO EXCAVATE TO BOTH EXISTING COMED DUCTS IN APPROACH AREA (EAST AND WEST SIDES) AND TIE UP WITH STEEL SUPPORT BEAM PER HBK PLANS.
8. IDOT CONTRACTOR TO EXCAVATE EXISTING APPROACH AREA.
9. COMED CONTRACTOR TO MANIPULATE THE CONDUITS / CABLES TO ALLOW FOR CAISSON DRILLING FOR ABUTMENTS.
10. IDOT CONTRACTOR TO CONSTRUCT NEW ABUTMENTS.
11. IDOT CONTRACTOR DEMOLISHES EXISTING EAST HALF OF THE PIERS.
12. COMED CONTRACTOR TO MANIPULATE THE CONDUITS / CABLES TO ALLOW FOR CAISSON DRILLING FOR EAST HALF OF PIERS.
13. IDOT CONTRACTOR CONSTRUCTS NEW EAST HALF OF PIERS INCLUDING FOUNDATIONS.
14. IDOT CONTRACTOR PLACES NEW STEEL W36X182 BEAMS AND DIAPHRAGMS FOR EAST HALF OF BRIDGE.
15. COMED CONTRACTOR SUPPORTS EAST BOX OF DUCTS ON WOOD LAGGING PER IDOT SPECIFICATIONS (PROTECTIVE SHIELD SPECIAL) BETWEEN NEW STEEL W36 BRIDGE BEAMS AND PROTECTS TOP OF WOOD BOX FROM DECK PLACEMENT WITH WOOD LAGGING PER IDOT SPECIFICATIONS (PROTECTIVE SHIELD SPECIAL).
16. IDOT CONTRACTOR REMOVES EAST SUPPORT BEAM.
17. IDOT CONTRACTOR FORMS NEW EAST DECK FOR MORGAN STREET BRIDGE AND PLACES INSERTS IN DECK FOR UTILITY SUPPORT. IDOT CONTRACTOR COMPLETES EAST DECK AND PROTECTS COMED CONDUITS.
18. COMED CONTRACTOR PLACES NEW EAST DUCT ON CONDUITS AND SUPPORTS DUCT WITH IDOT/COMED APPROVED DUCT SUPPORT SYSTEM FROM DECK INSERTS AFTER IDOT CONSTRUCTION OF THE EAST DECK IS COMPLETE.
19. IDOT CONTRACTOR WEST W36 TEMPORARY SUPPORT BEAMS PER HBK PLANS. COMED CONTRACTOR PROVIDES AND INSTALLS WEST W24 TEMPORARY SUPPORT BEAMS AND ALL WOODEN BOX SUPPORTS OF DUCTS AND ASSOCIATED CABLES
20. IDOT CONTRACTOR DEMOLISHES EXISTING WEST HALF OF THE PIERS.
21. COMED CONTRACTOR TO MANIPULATE THE CONDUITS / CABLES TO ALLOW FOR CAISSON DRILLING FOR WEST HALF OF PIERS.
22. IDOT CONTRACTOR CONSTRUCTS NEW WEST HALF OF PIERS INCLUDING FOUNDATIONS.
23. IDOT CONTRACTOR PLACES NEW STEEL W36X182 BEAMS AND DIAPHRAGMS FOR WEST HALF OF BRIDGE.
24. COMED CONTRACTOR SUPPORTS WEST BOX OF DUCTS ON WOOD LAGGING PER IDOT SPECIFICATIONS (PROTECTIVE SHIELD SPECIAL) BETWEEN NEW STEEL W36 BRIDGE BEAMS AND PROTECTS TOP OF WOOD BOX FROM DECK PLACEMENT WITH WOOD LAGGING PER IDOT SPECIFICATIONS (PROTECTIVE SHIELD SPECIAL).
25. IDOT CONTRACTOR REMOVES WEST SUPPORT BEAM.
26. IDOT CONTRACTOR FORMS NEW WEST DECK FOR MORGAN STREET BRIDGE AND PLACES INSERTS IN DECK FOR UTILITY SUPPORT. IDOT CONTRACTOR CONSTRUCTS WEST DECK AND PROTECTS COMED CONDUITS.
27. COMED CONTRACTOR PLACES NEW WEST DUCT ON CONDUITS AND SUPPORTS DUCT WITH IDOT/COMED APPROVED DUCT SUPPORT SYSTEM FROM DECK INSERTS AFTER IDOT CONSTRUCTION OF THE WEST DECK IS COMPLETE.

1 PARTIAL FOUNDATION LAYOUT  
SCALE: 1/8" = 1' - 0"



STRUCTURAL ENGINEER  
EXPIRES 11-30-2014  
*Andrew J. Schwary*  
SIGNATURE  
07-19-2013  
DATE

**BRIERLEY ASSOCIATES**  
Creating Space Underground



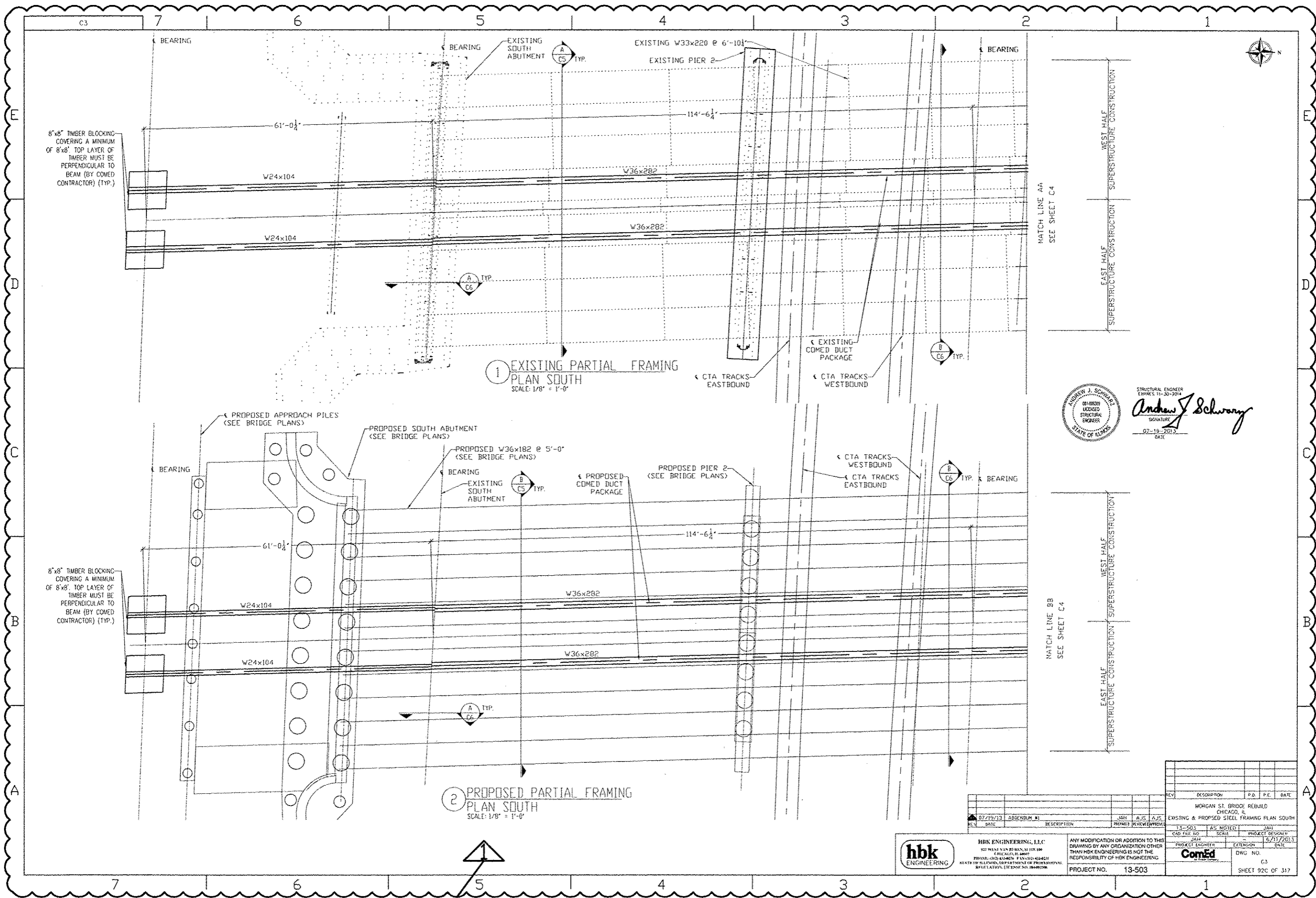
**HBK ENGINEERING, LLC**  
421 WEST VAN BUREN, SUITE 100  
CHICAGO, IL 60607  
PHONE: (312) 442-0074 FAX: (312) 442-0124  
STATE OF ILLINOIS LICENSE NO. 081-02853  
REGISTRATION LICENSE NO. 081-02853

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PROJECT NO. 13-503

REV	DESCRIPTION	P.D.	P.E.	DATE
07/21/13	ADDENDUM #1	JAH	AJS	AJS
REV	DATE	DESCRIPTION	PREPARED	APPROVED
T.S. NO.	AS NOTED	JAH		
CAD FILE NO.	SCALE	PROJECT DESIGNER		
PROJECT ENGINEER	EXTENSION	DATE		
PROJECT ENGINEER	EXTENSION	DATE		
DWG. NO.				
C2				
SHEET 92B OF 317				



STRUCTURAL ENGINEER  
 EXPIRES 11-30-2014  
*Andrew J. Schwary*  
 SIGNATURE  
 07-19-2013  
 DATE

MATCH LINE AA  
 SEE SHEET C4

MATCH LINE BB  
 SEE SHEET C4

WEST HALF  
 SUPERSTRUCTURE CONSTRUCTION

WEST HALF  
 SUPERSTRUCTURE CONSTRUCTION

REV.	DESCRIPTION	P.D.	P.E.	DATE
07/19/13	ADDENDUM #1	JAH	AJS	AJS



HBK ENGINEERING, I.L.C.  
 331 WEST VAN BUREN, SUITE 100  
 CHICAGO, IL 60607  
 PHONE: (312) 656-0070 FAX: (312) 438-0233  
 STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, IPR 22056 NO. 164603206

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REV.	DESCRIPTION	P.D.	P.E.	DATE
13-503	AS NOTED	JAH		6/11/2013
PROJECT ENGINEER		EXTENSION		DATE
PROJECT DESIGNER		EXTENSION		DATE
DWG. NO.		C.3		
SHEET 92C OF 317				

PROJECT NO. 13-503



NOTE:

1. ALL W24 & W36 STEEL TO BE FURNISHED BY COMED CONTRACTOR.
2. COORDINATE EXISTING & PROPOSED PARTIAL FRAMING PLANS SHOWN ON SHEET C3 & C4 OF C7 WITH IDOT & HBM DRAWINGS.
3. AT PROPOSED SUPPORT OF EXISTING COMED DUCT PACKAGE AT THE ABUTMENTS, W24 BEAMS ARE ALIGNED TO HAVE MINIMAL IMPACT ON CAISSON LOCATIONS AND ARE TO BE WELDED TO W36 BEAMS AT NORTH & SOUTH ABUTMENTS. SEE SHEET C7 SECTION A FOR DETAILS.
4. W24 & W36 SECTIONS WILL BE DELIVERED TO A LOCATION SECURED AND DESIGNATED BY THE IDOT CONTRACTOR. ITEMS SUPPLIED WILL BE LONGER THAN REQUIRED AND FABRICATED BY IDOT CONTRACTOR.

1 EXISTING PARTIAL FRAMING  
PLAN NORTH  
SCALE: 1/8" = 1'-0"

2 PROPOSED PARTIAL FRAMING  
PLAN NORTH  
SCALE: 1/8" = 1'-0"



STRUCTURAL ENGINEER  
CHICAGO, IL  
*Andrew J. Schwary*  
SIGNATURE  
07-19-2013  
DATE

REV.	DATE	DESCRIPTION	PREPARED	REVIEWED	DATE
07/19/13		ADDENDUM #1	JAH	AJS	AJS

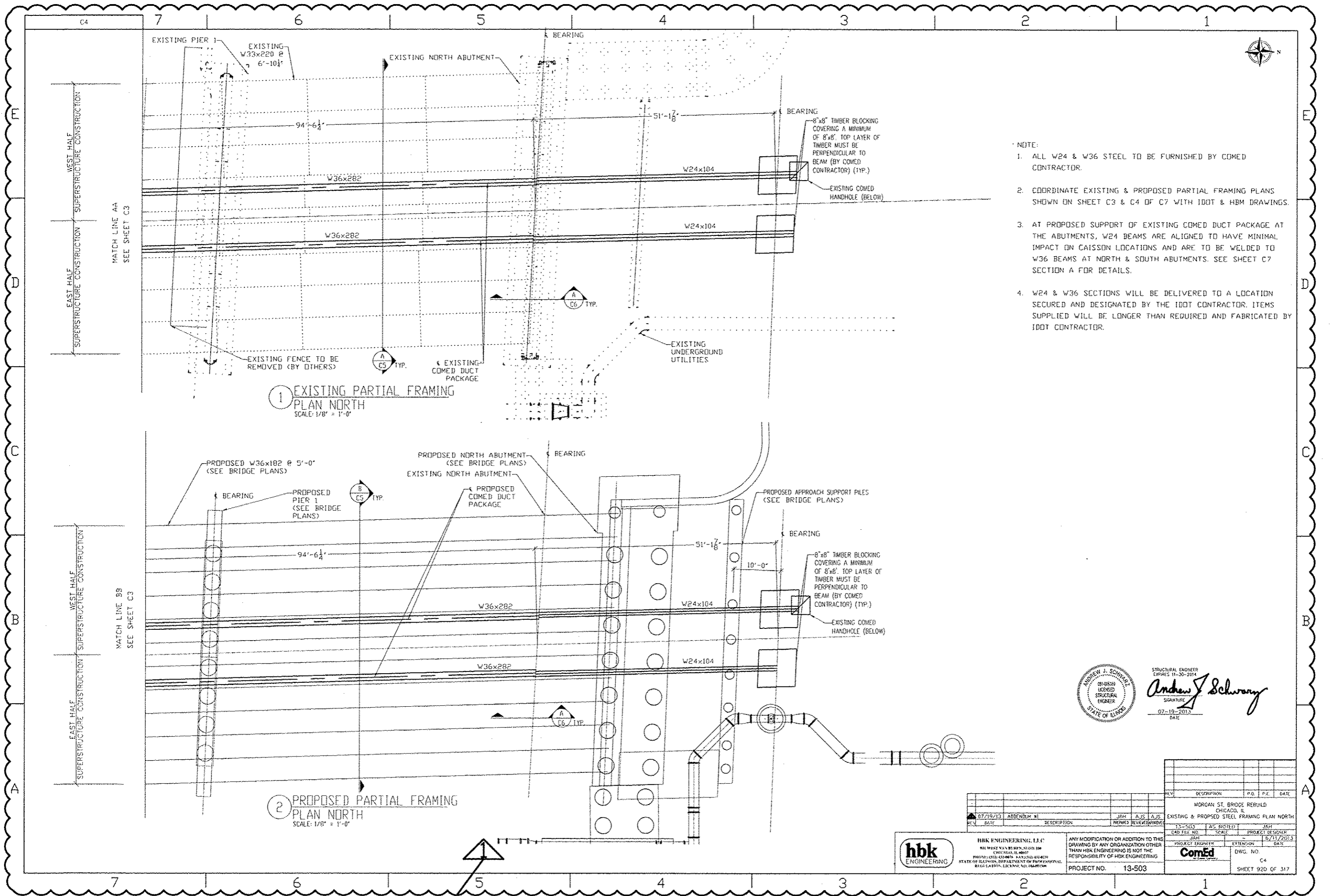
PROJECT NO. 13-503		DWG. NO. C4	
SHEET 920 OF 317		DATE 8/11/2013	

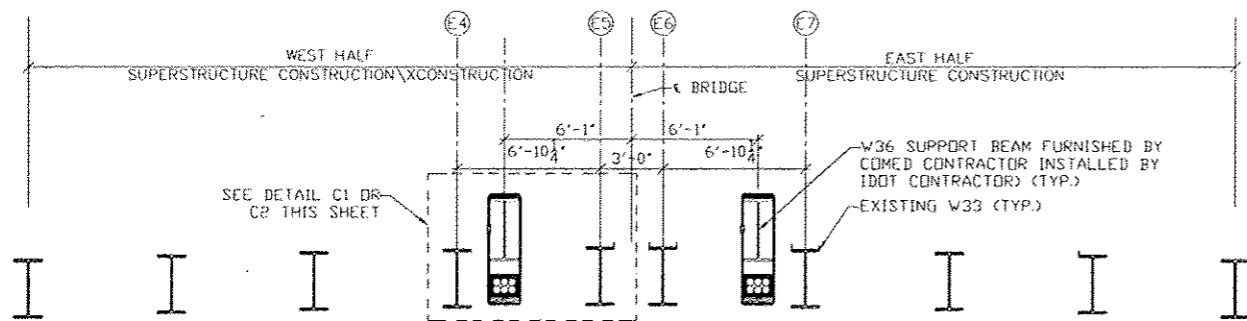


HBK ENGINEERING, LLC  
48 WEST VAN BUREN, SUITE 100  
CHICAGO, IL 60607  
PHONE: (312) 650-0800 FAX: (312) 650-0801  
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LICENSE NO. 044-0100

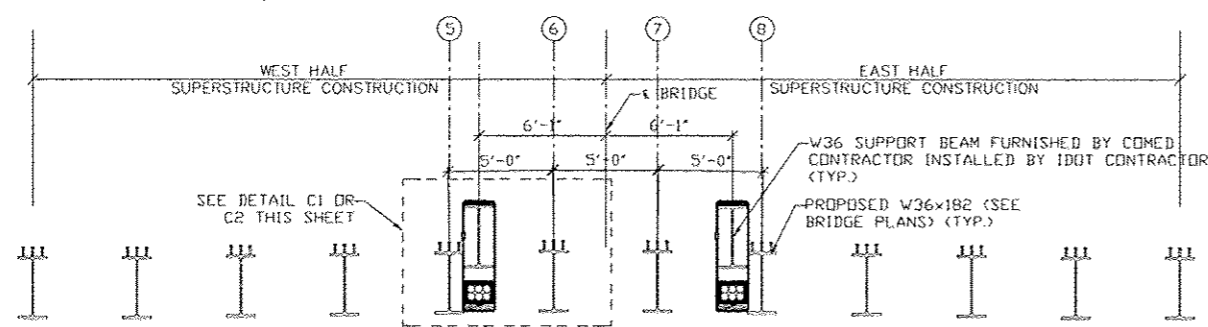
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN HBK ENGINEERING IS NOT THE RESPONSIBILITY OF HBK ENGINEERING

PROJECT DESIGNER: JAH  
EXTENSION: DATE: 8/11/2013

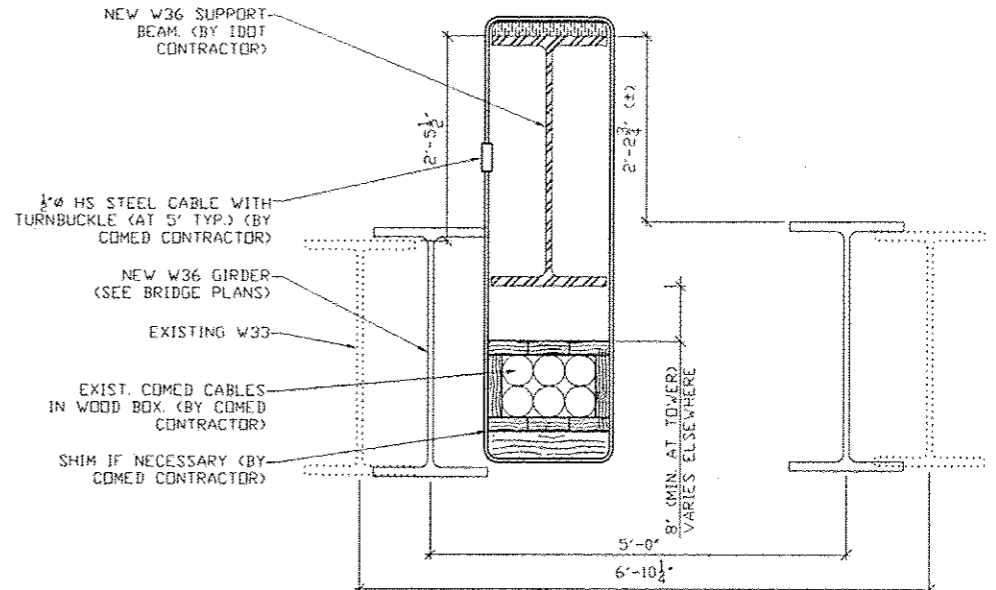




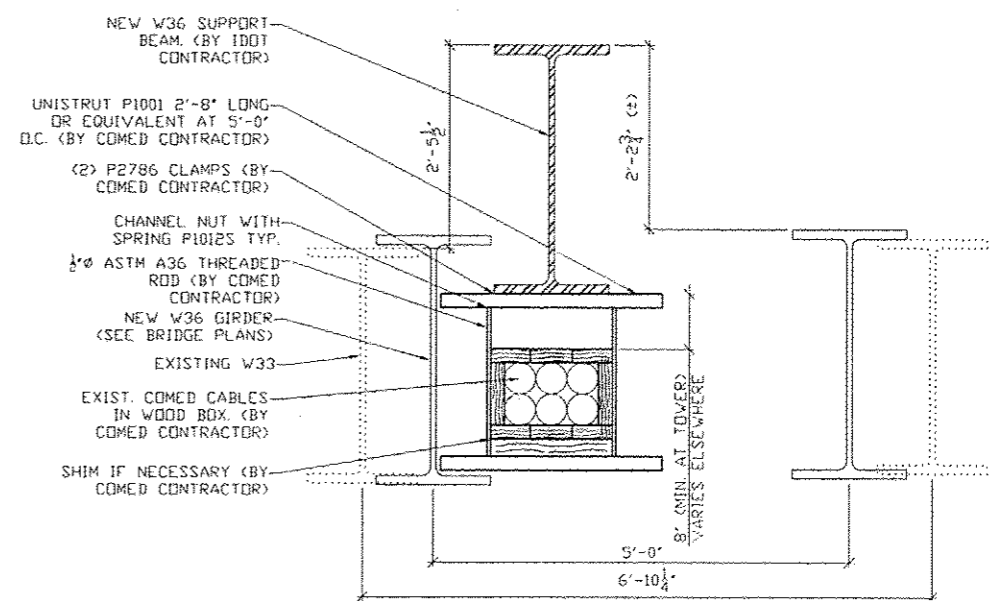
**(A) EXISTING BRIDGE CROSS SECTION**  
SCALE: 1/4" = 1'-0"



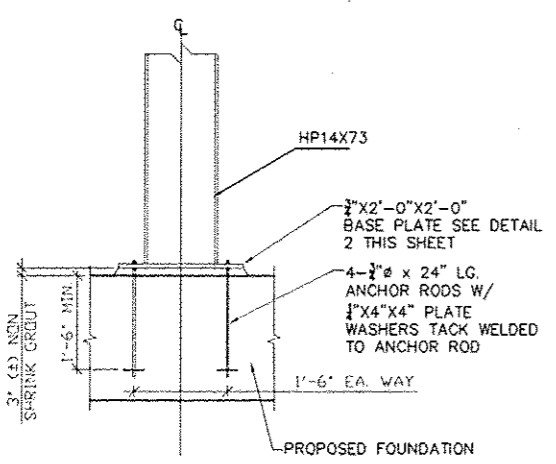
**(B) PROPOSED BRIDGE CROSS SECTION**  
SCALE: 1/4" = 1'-0"



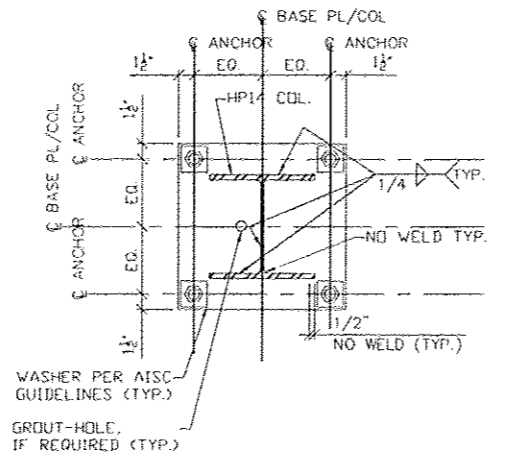
**(C1) TYPICAL SUPPORT DETAIL OPTION**  
SCALE: 1" = 1'-0"



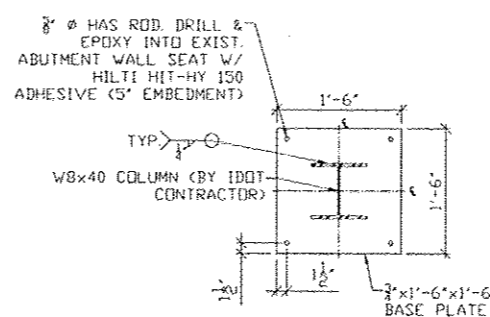
**(C2) TYPICAL SUPPORT DETAIL OPTION**  
SCALE: 1" = 1'-0"



**(1) TYP. BASE PLATE CONNECTION DETAIL**  
SCALE: 3/4" = 1'-0"



**(2) TYP. PLATE DETAILS AND TYPES**  
SCALE: NTS



**(3) ABUTMENT BASE PLATE**  
SCALE: 1" = 1'-0"



STRUCTURAL ENGINEER  
CHICAGO, IL  
EXPIRES 11-30-2014  
*Andrew J. Schwary*  
SIGNATURE  
07-19-2013  
DATE

REV	DESCRIPTION	P.D.	P.E.	DATE
07/19/13	ABUTMENT #1	JAH	AJS	AJS
		PREPARED	REVIEWED	APPROVED

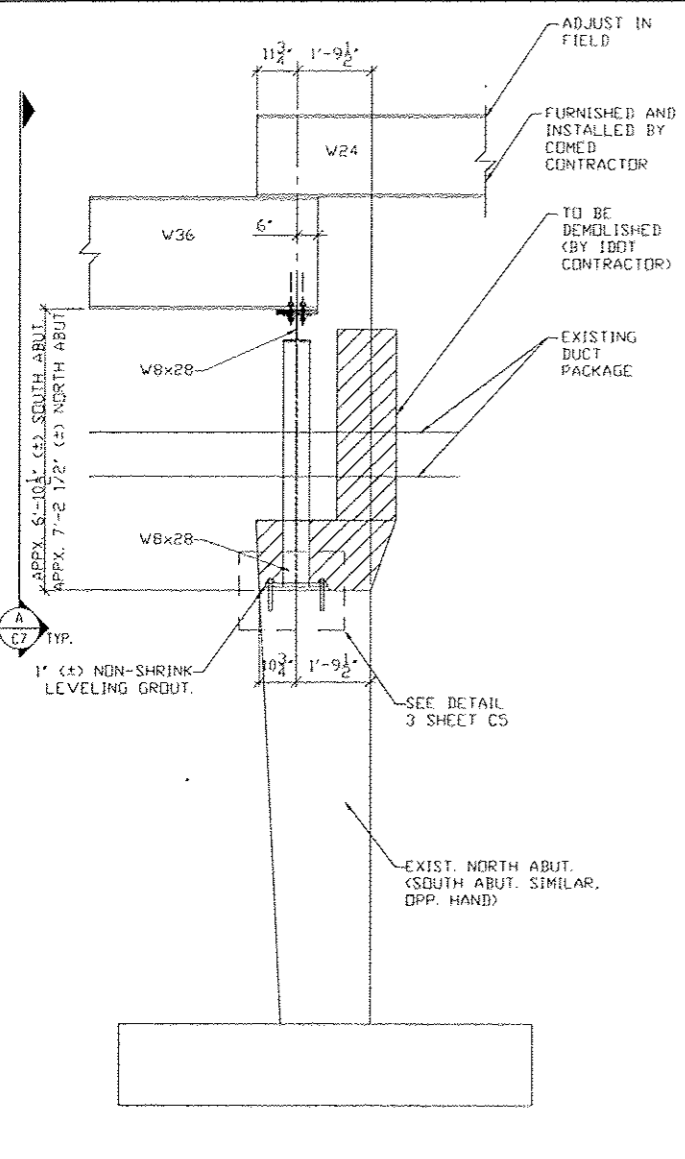
13-503	AS NOTED	JAH
CAD FILE NO.	SCALE	PROJECT DESIGNER
JAH		DATE
PROJECT ENGINEER	EXTRINSIC	
		DWG. NO.
		CS
		SHEET 92E OF 317



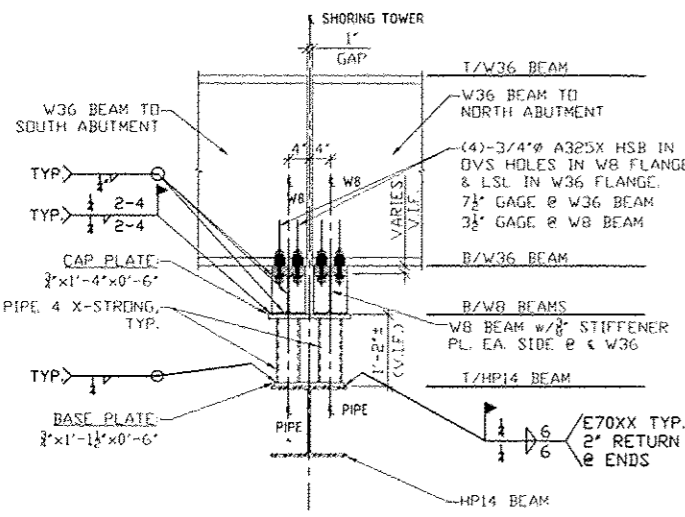
HBK ENGINEERING, LLC  
921 WEST 54th STREET, SUITE 100  
CHICAGO, IL 60607  
PH: (773) 462-0000 FAX: (773) 462-0020  
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LICENSE NO. 184-001306

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PROJECT NO. 13-503

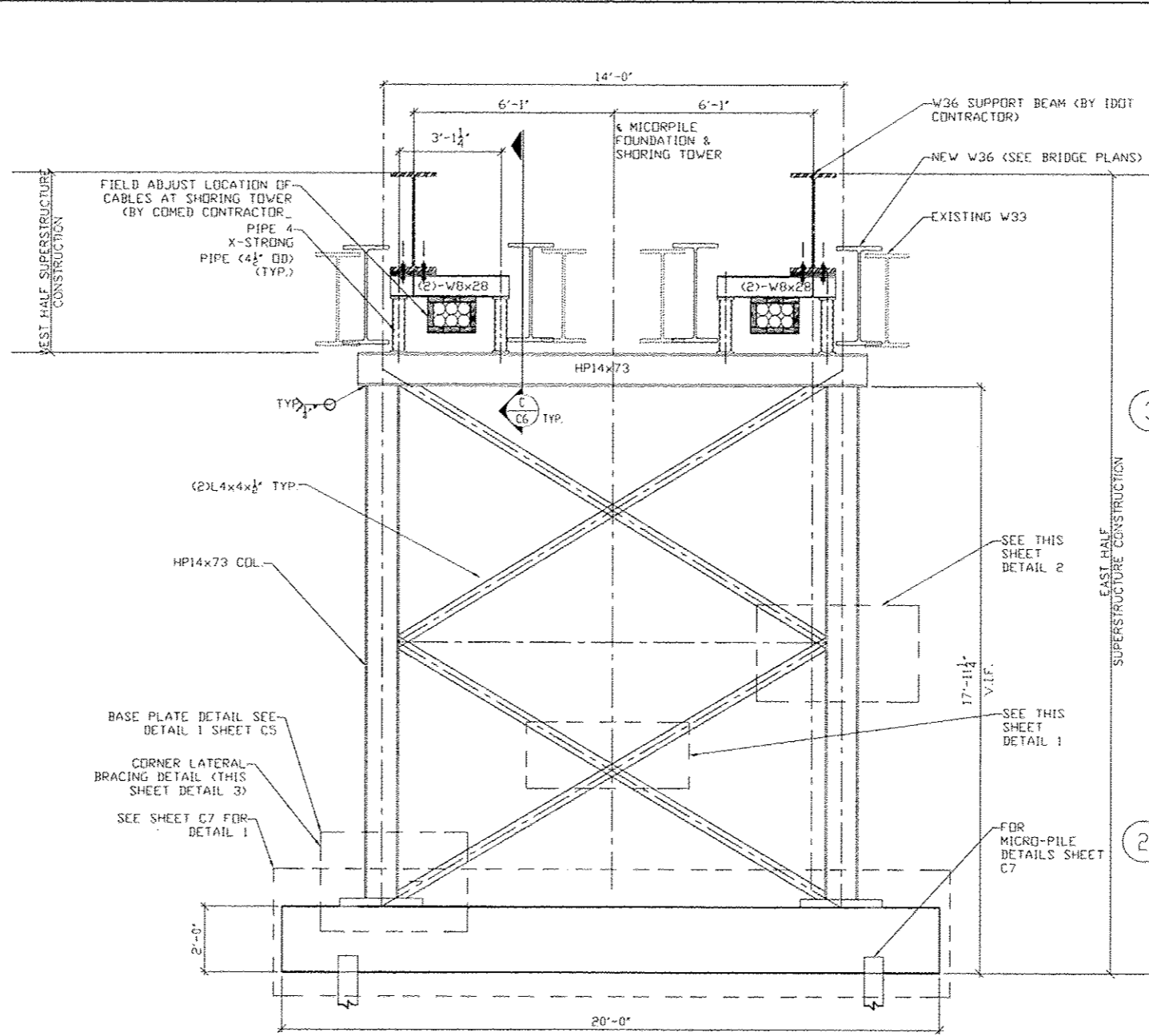
7 6 5 4 3 2 1



**(A) SECTION AT ABUTMENT**  
SCALE: 1/2" = 1' - 0"

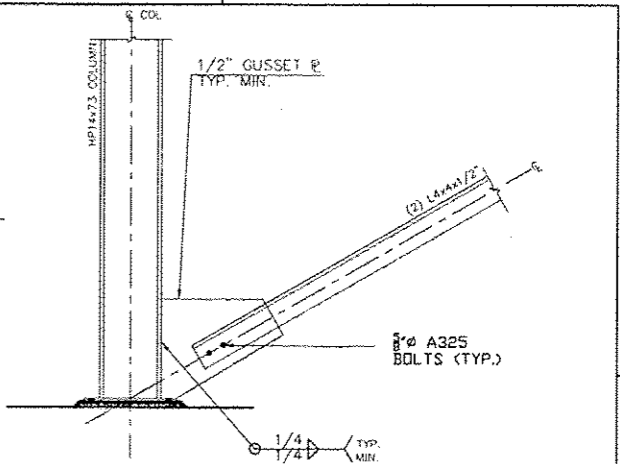


**(C) SECTION AT SHORING TOWER**  
SCALE: 3/4" = 1' - 0"

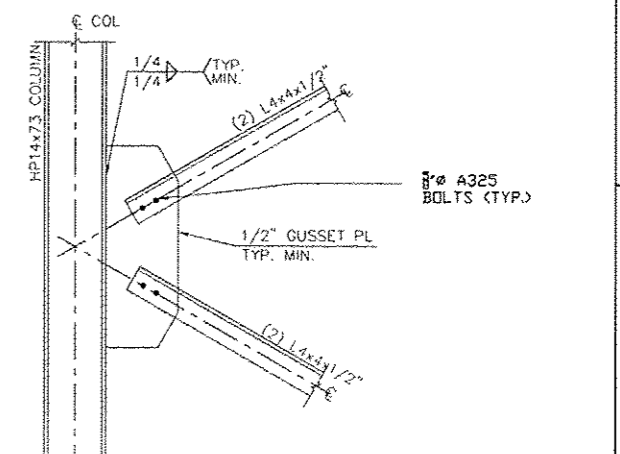


**(B) SHORING TOWER**  
SCALE: 1/2" = 1' - 0"

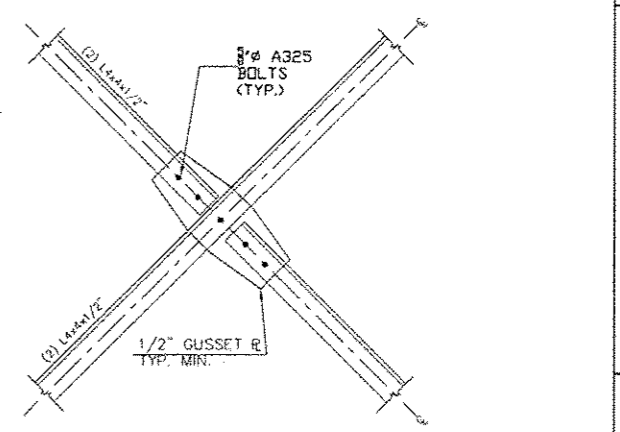
NOTE:  
ALL COMPONENTS OF THE SHORING TOWER TO BE DONE BY IDOT CONTRACTOR



**(3) TYP. CONNECTION AT COLUMN & BRACE**  
SCALE: NOT TO SCALE



**(2) TYP. CONNECTION AT COLUMN & BRACE**  
SCALE: NOT TO SCALE



**(1) TYP. CONNECTION AT X-BRACE**  
SCALE: 3/4" = 1' - 0"



ANDREW J. SCHWARTZ  
STRUCTURAL ENGINEER  
EXPIRES 11-30-2014  
*Andrew J. Schwarz*  
SIGNATURE  
07-19-2013  
DATE

**BRIERLEY ASSOCIATES**  
Creating Space Underground



HBK ENGINEERING, LLC  
131 W. VAN BUREN, SUITE 100  
CHICAGO, IL 60607  
PHONE: (312) 412-6676 FAX: (312) 437-4331  
5843 S. ILLINOIS, OFFICE FOR THE STATE OF ILLINOIS  
REG. # 1103, EXP. 03/31/2016

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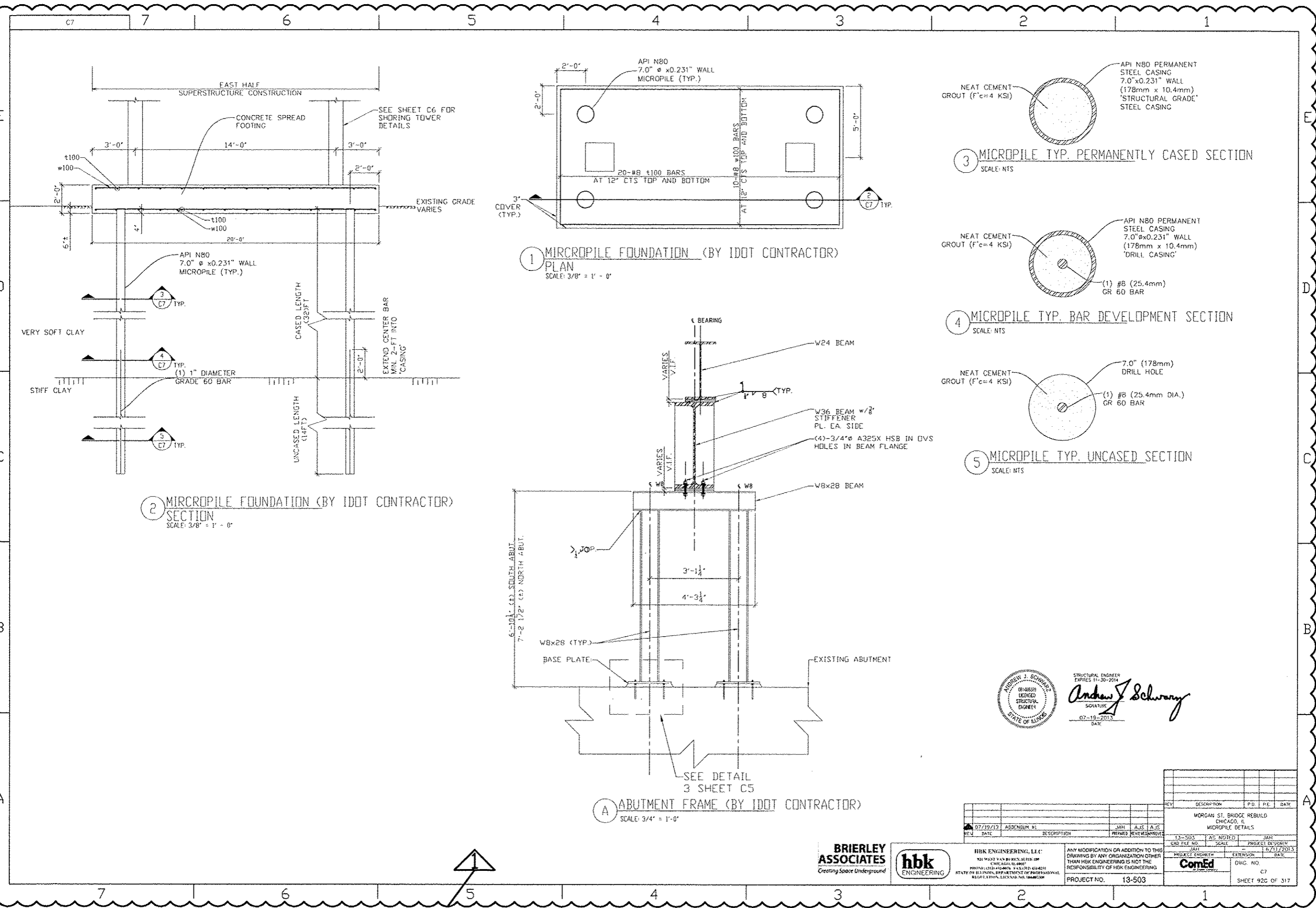
PROJECT NO. 13-503

REV	DESCRIPTION	P.D.	P.C.	DATE
07/19/2016	ADDENDUM #1	JAM	AJS	AJS
13-503	AS NOTED	JAM		
CAD FILE NO.	SCALE	PROJECT DESIGNER		
PROJECT ENGINEER	EXTENSION	DATE		
DWC NO.	CG			

SHEET 02F OF 317

7 6 5 4 3 2 1





STRUCTURAL ENGINEER  
EXPIRES 11-30-2014  
*Andrew J. Schwary*  
SIGNATURE  
07-18-2013  
DATE

REV.	DATE	DESCRIPTION	PREPARED	REVIEWED	DATE
07/19/13		ADDENDUM #1	JAH	AJS	AJS

REV.	DESCRIPTION	P.D.	P.E.	DATE

MORGAN ST. BRIDGE REBUILD  
CHICAGO, IL  
MICROPILE DETAILS

13-503 AS NOTED SCALE PROJECT DESIGNER  
JAH 6/11/2013  
PROJECT ENGINEER EXTENSION DATE  
CORNED  
DWG. NO. C7  
SHEET 926 OF 317

**BRIERLEY ASSOCIATES**  
Creating Space Underground



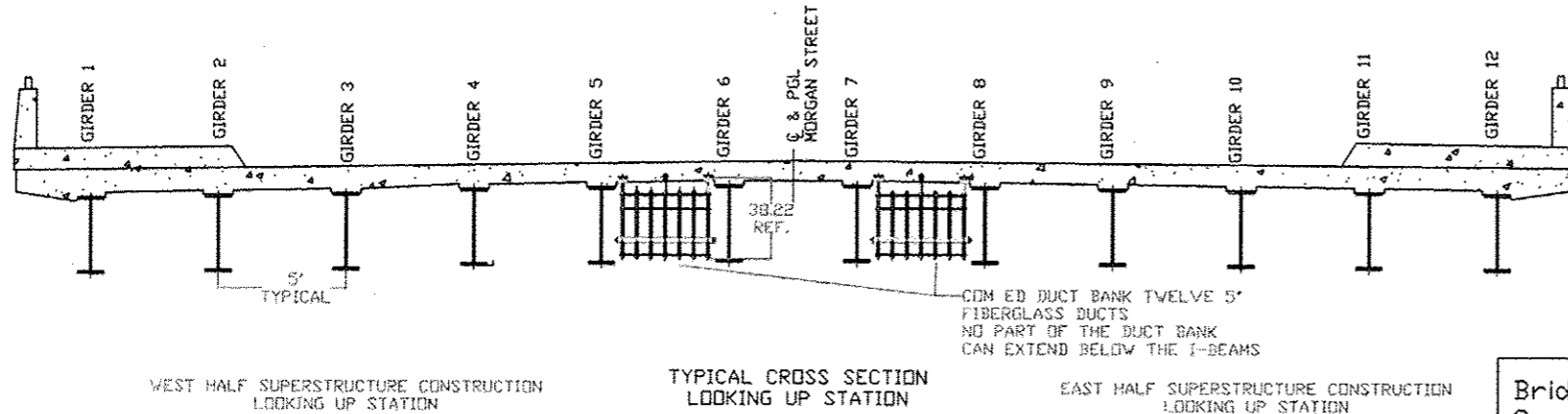
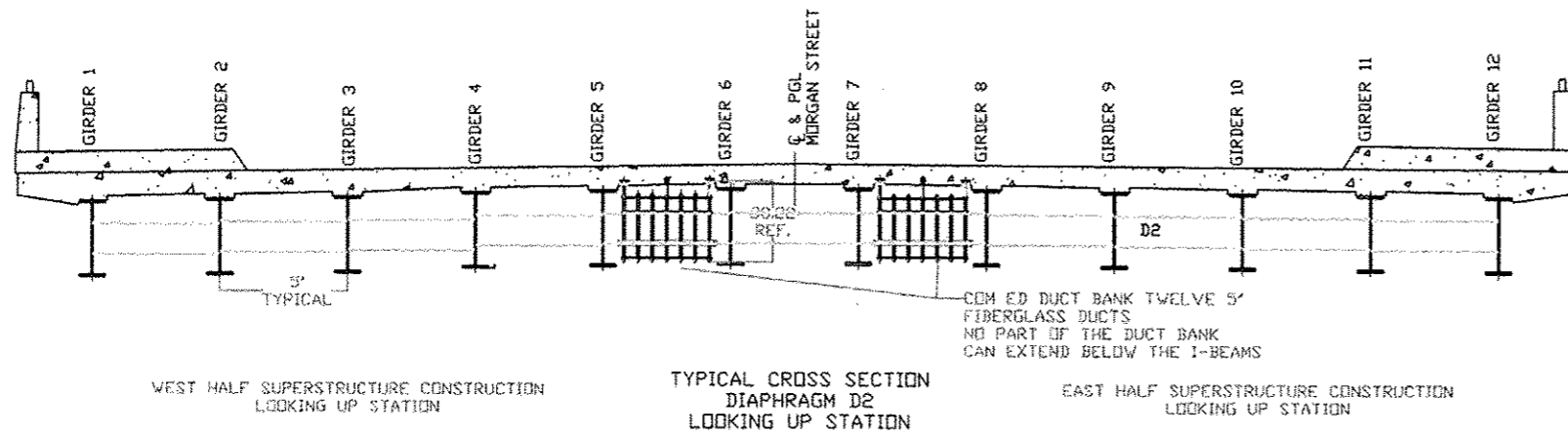
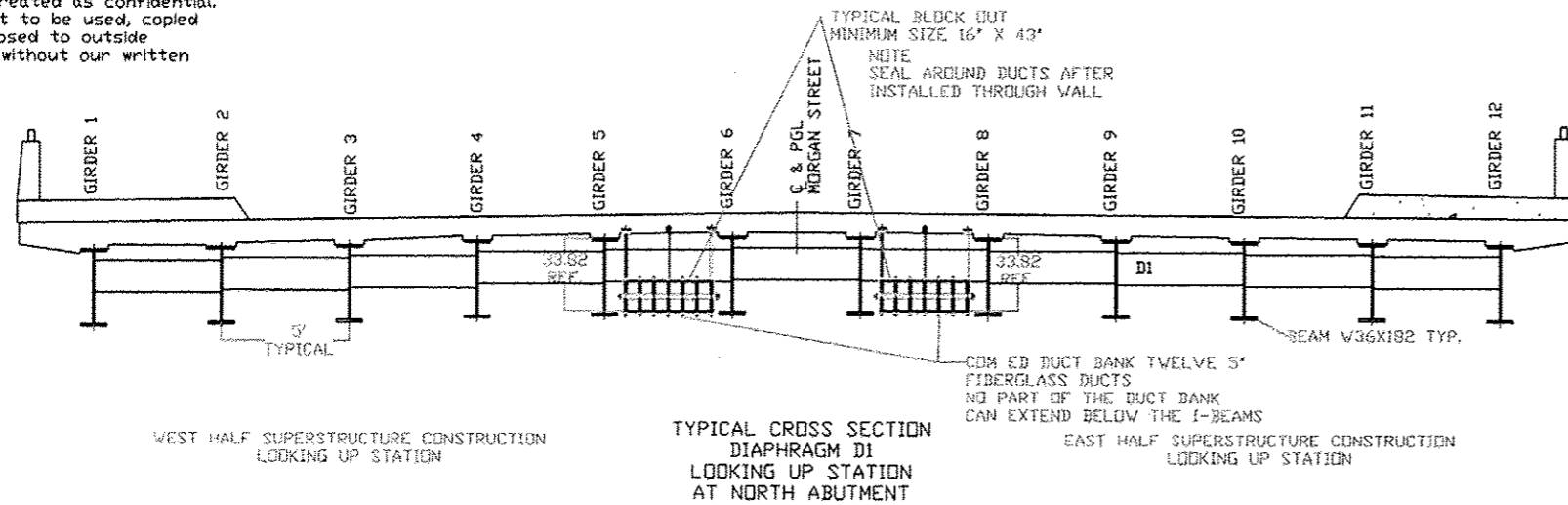
HBK ENGINEERING, LLC  
28 WEST VAN BUREN, SUITE 200  
CHICAGO, IL 60607  
PHONE: (312) 414-0400 FAX: (312) 414-0420  
STATE OF ILLINOIS, DEPARTMENT OF PROFESSIONAL REGULATION, LICENSE NO. 184830M

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PROJECT NO. 13-503

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	L0	ADDENDUM 1	07/19/2013	BRIAN BB



FOR INFORMATION ONLY  
 WORK TO BE PERFORMED BY OTHERS  
 WITH THE EXCEPTION OF PLACEMENT  
 OF INSERTS INTO SUPERSTRUCTURE

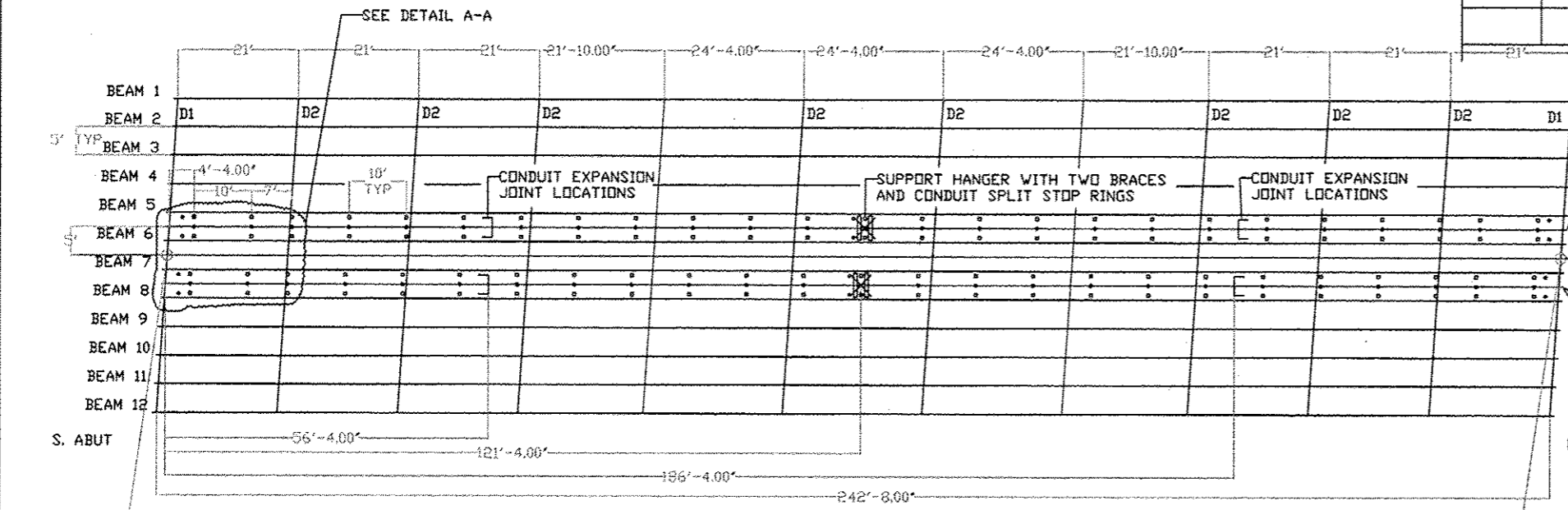
NOTE  
 NO PART OF THE CONDUIT SUPPORT HANGER CAN  
 EXTEND BELOW THE BRIDGE DECK (W36X182) BEAMS  
 EXTENDED RODS MAY NEED TO BE ALTERED

Note:  
 ALL MEASUREMENTS ARE IN INCHES UNLESS  
 NOTED OTHERWISE

DRAWING APPROVAL  
 1  
 APPROVE THIS DRAWING FOR MANUFACTURING  
 DATE: \_\_\_\_\_

Bridge Deck Cross Section	CONDUX INTERNATIONAL, INC. MANKATO MN PH. 800-533-2077			
	Project: ComEd Morgan Street Bridge at I-290/Congress Parkway (circle interchange) Cook County Illinois			
WEIGHT: 0.0 LBS EA	SIZE	FSCM NO.	DWG NO.	REV
QUOTE NO. 3985211287	SCALE 1/2		TBA	1.0
	DATE: 06-06-2013	SHEET: CONDUX 1 OF 3		SHEET 92H OF 317

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	1.0	ADDENDUM 1	07/19/2013	BRIAN BB

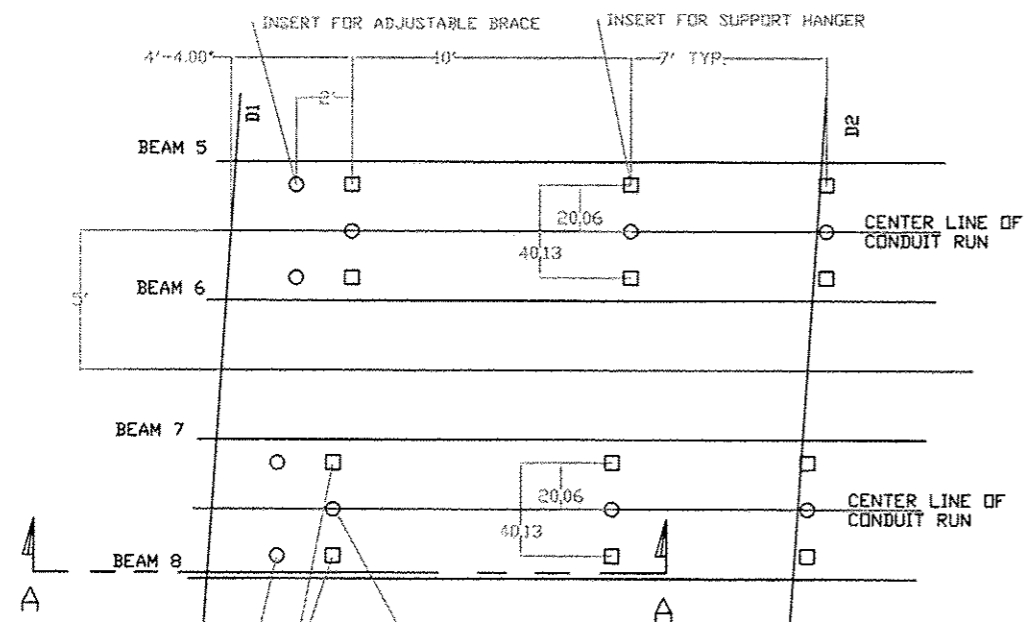


S. BRG. S. ABUT  
STA. 3603+30.89

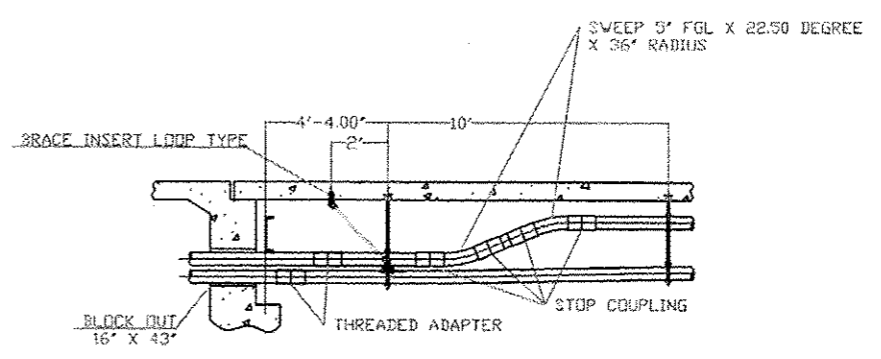
N. BRG. N. ABUT  
STA. 3605+73.56

- EXTEND FIBERGLASS CONDUIT OUT PASS APPROACH PAD
- COM ED DUCTS SOUTH BOUND
- AND PGL MORGAN STREET
- COM ED DUCTS NORTH BOUND
- EXTEND FIBERGLASS CONDUIT OUT PASS APPROACH PAD

SUPPORT HANGER AND CONDUIT LAYOUT



DETAIL A-A  
CONCRETE INSERT LAYOUT  
SCALE 4:1



SECTION A-A

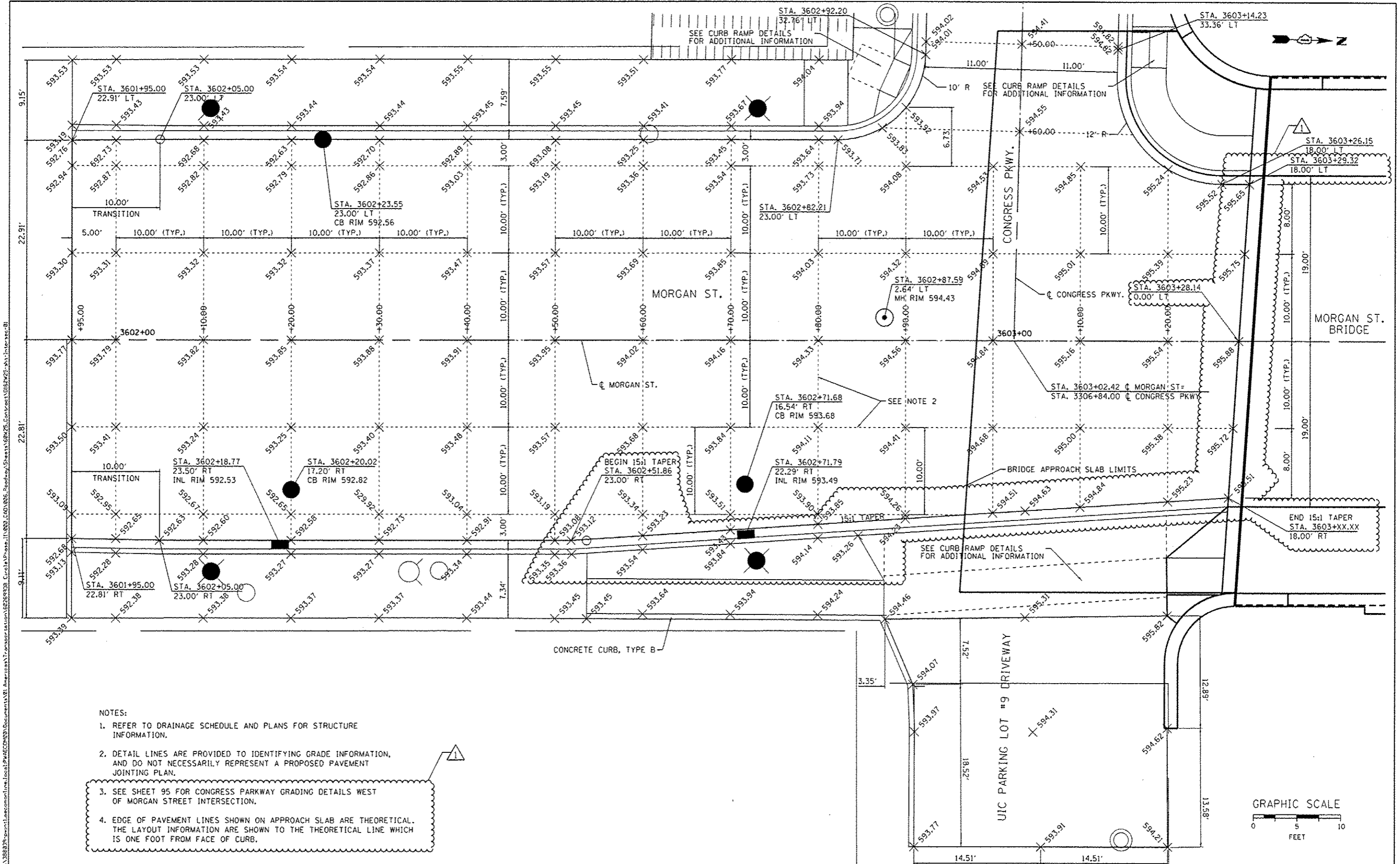
FOR INFORMATION ONLY  
WORK TO BE PERFORMED BY OTHERS  
WITH THE EXCEPTION OF PLACEMENT  
OF INSERTS INTO SUPERSTRUCTURE

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Note:  
ALL MEASUREMENTS ARE IN INCHES UNLESS NOTED OTHERWISE

DRAWING APPROVAL  
APPROVE THIS DRAWING FOR MANUFACTURING DATE: \_\_\_\_\_

CONDUIT SUPPORT AND CONDUIT LAYOUT	CONDUX INTERNATIONAL, INC. MANKATO MN PH. 800-533-2077			
	Project: ComEd Morgan Street Bridge at I-290/Congress Parkway (circle interchange) Cook County Illinois			
WEIGHT: 0.0 LBS EA	SIZE	FSCM NO.	DWG NO.	REV
			TBA	1.0
QUOTE NO. 3985211287	SCALE 1/2	DATE: 06-06-2013	SHEET: CONDUX 2 OF 3	SHEET 92I OF 317



- NOTES:**
- REFER TO DRAINAGE SCHEDULE AND PLANS FOR STRUCTURE INFORMATION.
  - DETAIL LINES ARE PROVIDED TO IDENTIFYING GRADE INFORMATION, AND DO NOT NECESSARILY REPRESENT A PROPOSED PAVEMENT JOINING PLAN.
  - SEE SHEET 95 FOR CONGRESS PARKWAY GRADING DETAILS WEST OF MORGAN STREET INTERSECTION.
  - EDGE OF PAVEMENT LINES SHOWN ON APPROACH SLAB ARE THEORETICAL. THE LAYOUT INFORMATION ARE SHOWN TO THE THEORETICAL LINE WHICH IS ONE FOOT FROM FACE OF CURB.



DWG NO. 25-sh-Intersec-01	DESIGNED - BMC	REVISED - 7/19/2013
USER NAME: chian	DRAWN - BMC	REVISED -
PLOT SCALE: 5/8" = 1'	CHECKED - AFC	REVISED -
PLOT DATE: 7/11/2013	DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION AND GRADING DETAILS	F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 93
MORGAN STREET AND CONGRESS PARKWAY	SCALE: 1" = 5'		SHEET 1 OF 3 SHEETS	CONTRACT NO. 60W25	
STA. TO STA.	ILLINOIS FED. AID PROJECT				

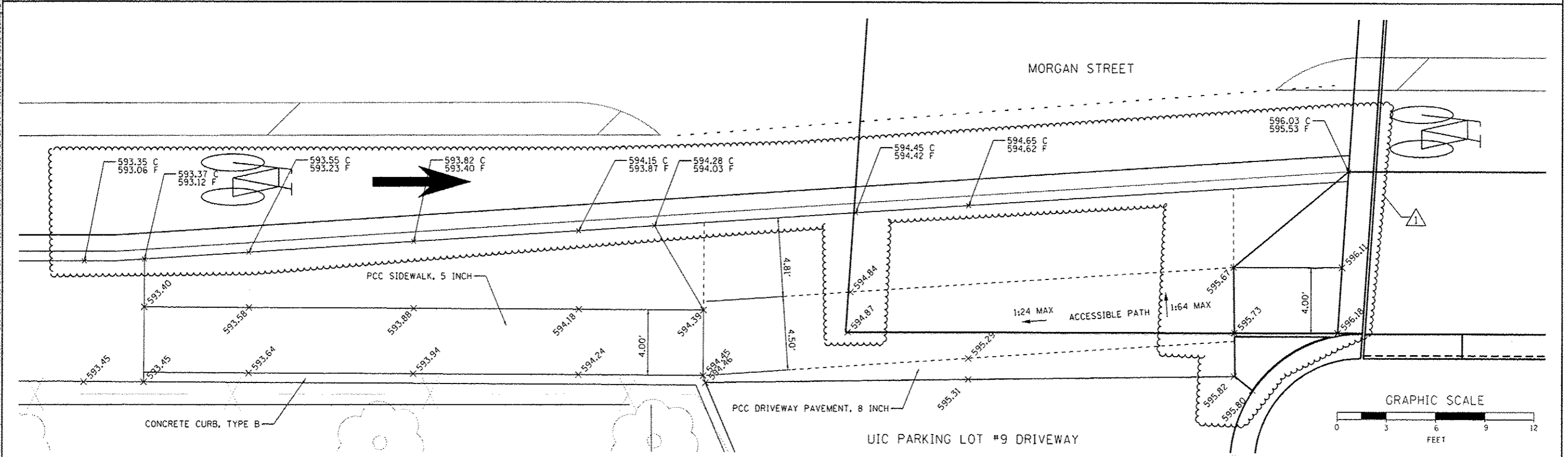
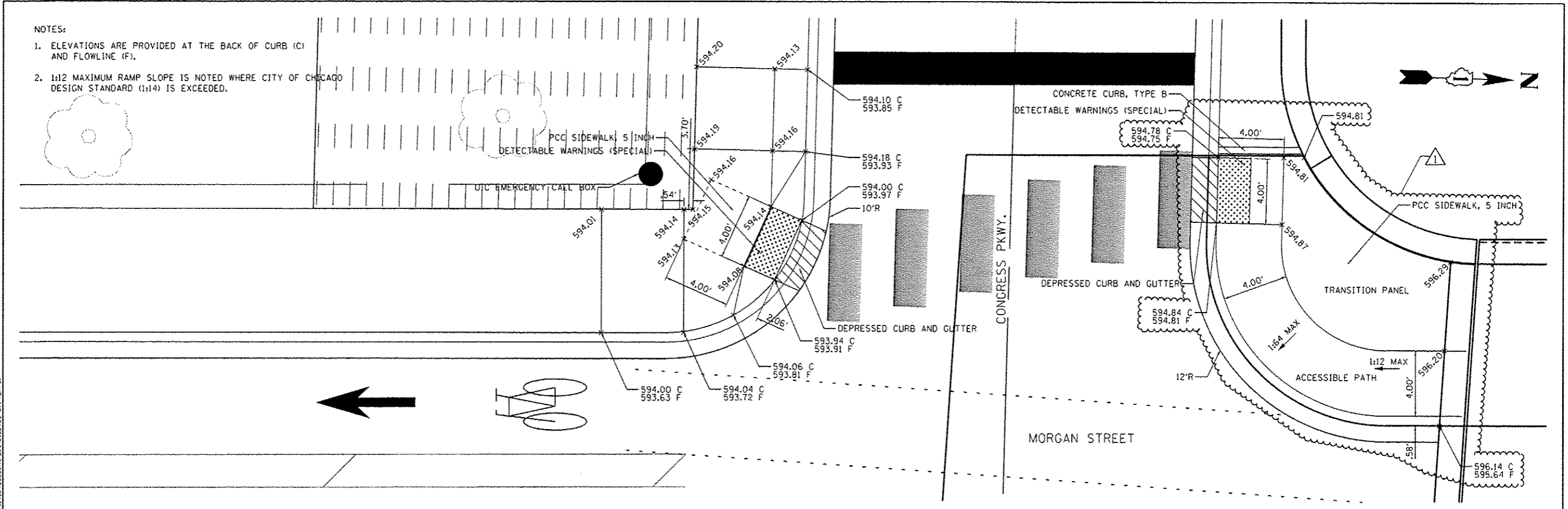
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION					
INTERSECTION AND GRADING DETAILS MORGAN STREET AND CONGRESS PARKWAY					
SCALE: 1" = 5'					
SHEET 1 OF 3 SHEETS					
STA. TO STA.					
ILLINOIS FED. AID PROJECT					





NOTES:

- ELEVATIONS ARE PROVIDED AT THE BACK OF CURB (C) AND FLOWLINE (F).
- 1:12 MAXIMUM RAMP SLOPE IS NOTED WHERE CITY OF CHICAGO DESIGN STANDARD (1:14) IS EXCEEDED.



FILE PATH: \\p01\388533\p01\388533\assess\me\loc\p01\388533\Documents\B1\_Assess\Transp\station\60265938\_CurbRamp\59425\_Contract\1\01\60265938.dwg



D160425-shl-40A-01	DESIGNED - BMC	REVISED - 7/19/2013
USER NAME - chris	DRAWN - BMC	REVISED -
PLOT SCALE - 3/8" = 1' - 0"	CHECKED - AFC	REVISED -
PLOT DATE - 7/15/2013	DATE - 5/14/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

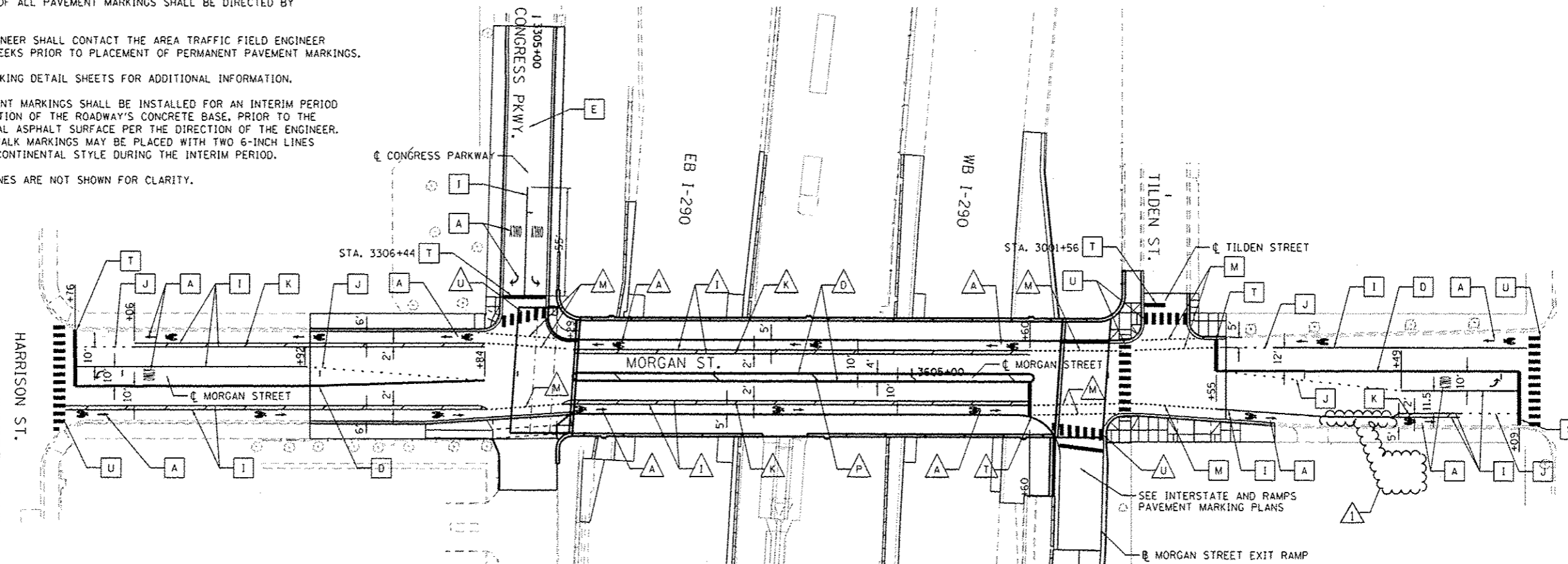
CURB RAMP DETAILS  
MORGAN STREET AT CONGRESS PARKWAY  
MORGAN STREET AT UIC PARKING LOT #9 DRIVEWAY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	96
CONTRACT NO. 60W25				
[ILLINOIS] FED. AID PROJECT				

SCALE: 1" = 3' SHEET 1 OF 3 SHEETS STA. TO STA.

## PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
2. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
3. ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
6. THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
7. SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.
8. TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED FOR AN INTERIM PERIOD FOLLOWING COMPLETION OF THE ROADWAY'S CONCRETE BASE, PRIOR TO THE PLACEMENT OF FINAL ASPHALT SURFACE PER THE DIRECTION OF THE ENGINEER. TEMPORARY CROSSWALK MARKINGS MAY BE PLACED WITH TWO 6-INCH LINES IN PLACE OF THE CONTINENTAL STYLE DURING THE INTERIM PERIOD.
9. ROADWAY CENTERLINES ARE NOT SHOWN FOR CLARITY.



## LEGEND

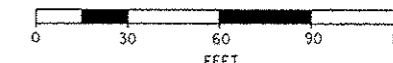
### PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ TEMPORARY PAVEMENT MARKING
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

### PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- J - 6" WHITE SOLID LINE
- K - 6" WHITE (2' DASH, 6' SKIP)
- L - 8" WHITE EDGE LINE
- M - 12" WHITE (2' DASH, 2' SKIP)
- N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)

GRAPHIC SCALE



D:\60W25\shlt-Pmk-Sign-01  
USER NAME: k.chius  
PLOT SCALE: 30,0000' / in.  
PLOT DATE: 7/6/2013

DESIGNED - BMC  
DRAWN - BMC  
CHECKED - AFC  
DATE - 6/17/2013

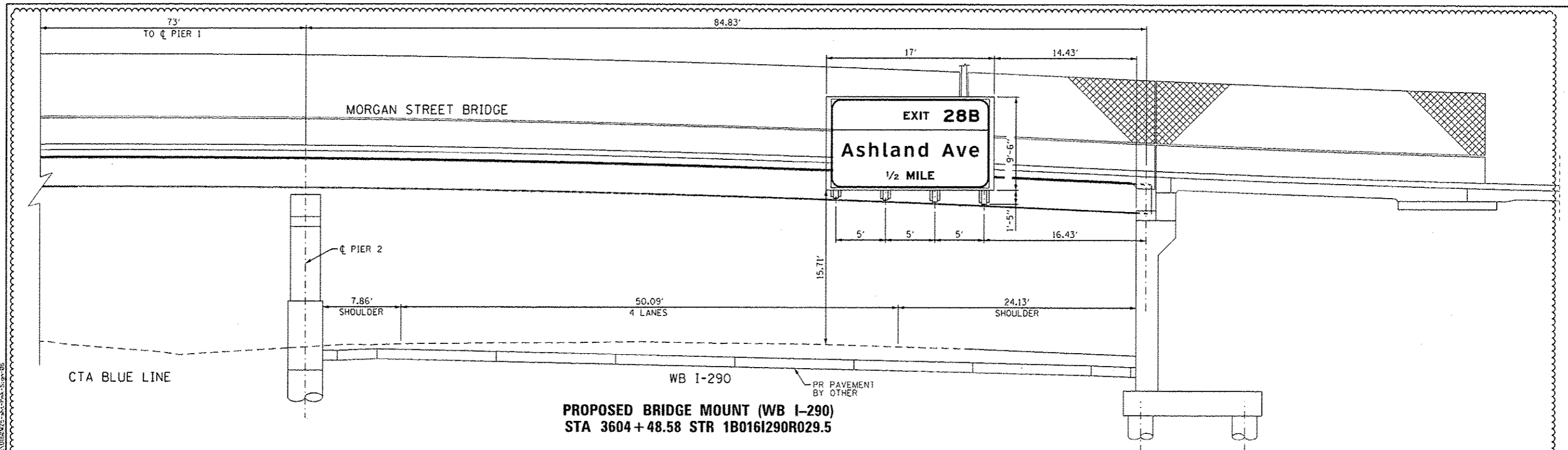
REVISED -  $\Delta$  7/19/2013  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

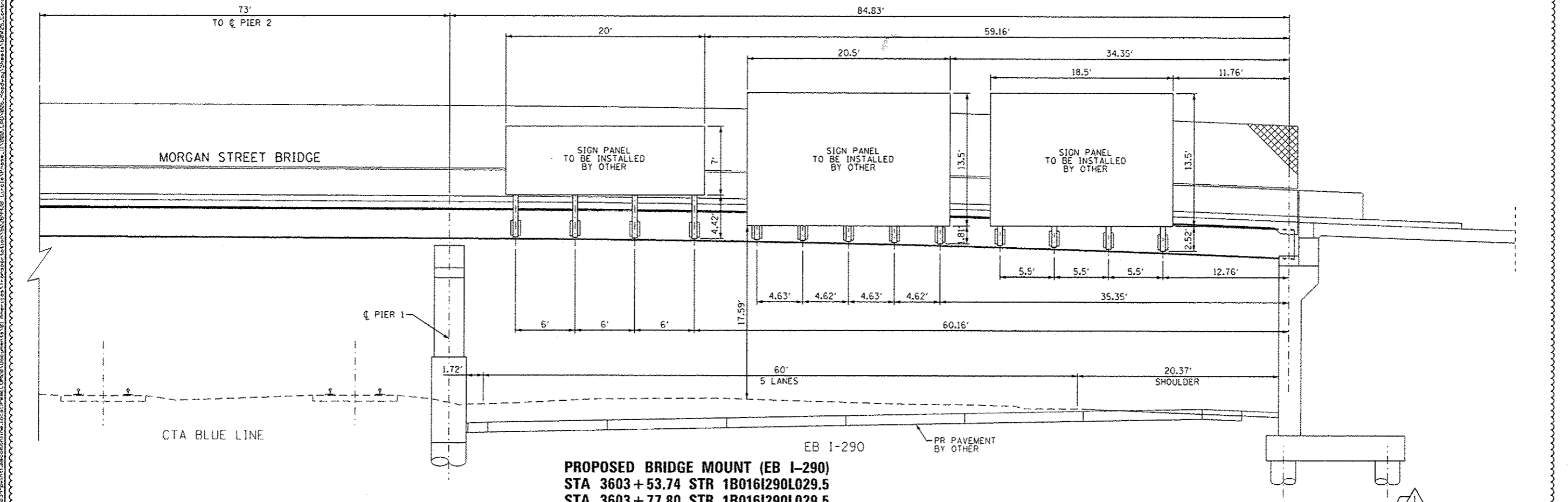
PAVEMENT MARKING PLANS  
LOCAL ROADS

SCALE: 1" = 30' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	106
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



**PROPOSED BRIDGE MOUNT (WB I-290)**  
**STA 3604 + 48.58 STR 1B016I290R029.5**



**PROPOSED BRIDGE MOUNT (EB I-290)**  
**STA 3603 + 53.74 STR 1B016I290L029.5**  
**STA 3603 + 77.80 STR 1B016I290L029.5**  
**STA 3604 + 01.86 STR 1B016I290L029.5**



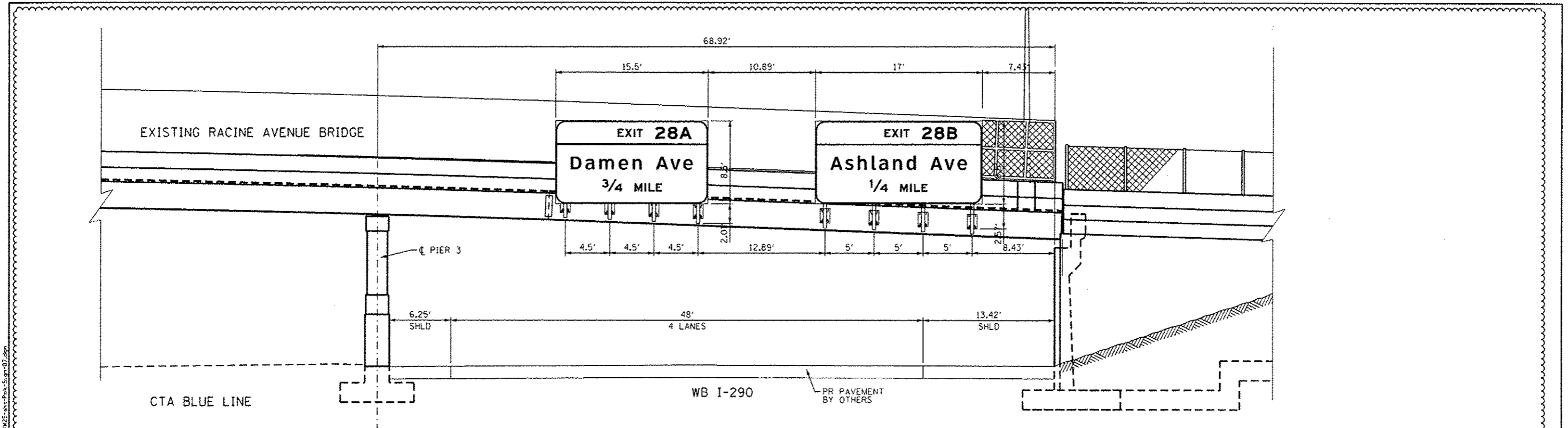
DIBB425-shr-Pnk-Sign-06	DESIGNED - BMC	REVISED - 7/19/2013
USER NAME: chun	DRAWN - BMC	REVISED -
PLOT SCALE: 5/8" = 1' in.	CHECKED - AFC	REVISED -
PLOT DATE: 7/16/2013	DATE - 5/14/2013	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

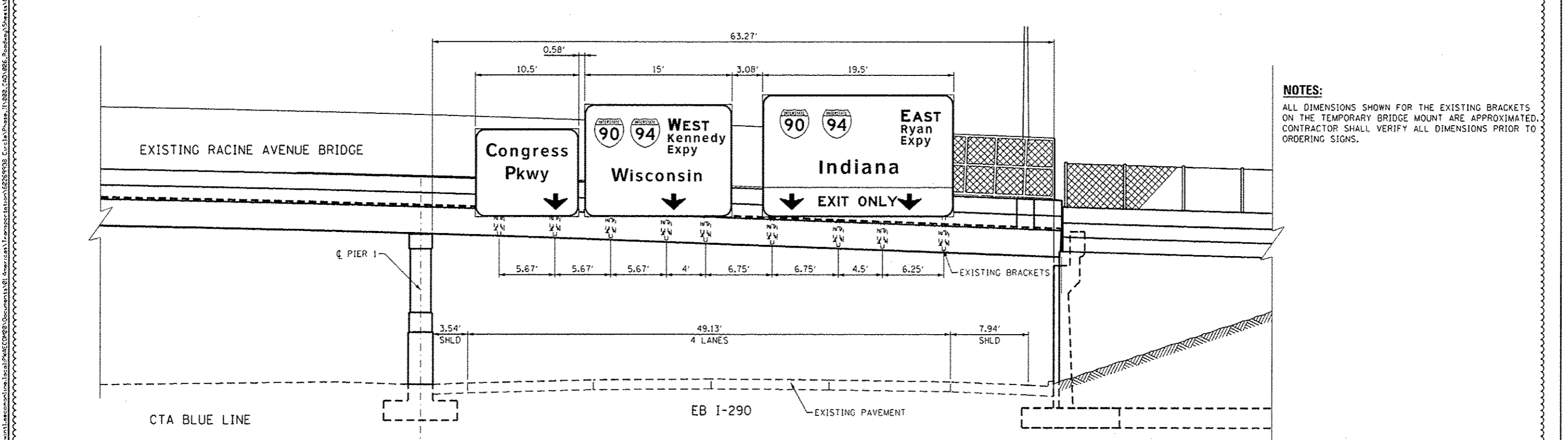
OVERHEAD SIGN STRUCTURES		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SIGN PANEL PLACEMENT		90/94/290	2013-007R	COOK	317	112
SCALE: 1" = 5'	SHEET 1 OF 2 SHEETS	STA.	TO STA.		CONTRACT NO. 60W25	



ILLINOIS FED. AID PROJECT



**PROPOSED BRIDGE MOUNT (WB I-290)**  
 STA 5262 + 87.63 STR 1B16I290L029.3  
 STA 5262 + 91.17 STR 1B16I290L029.3



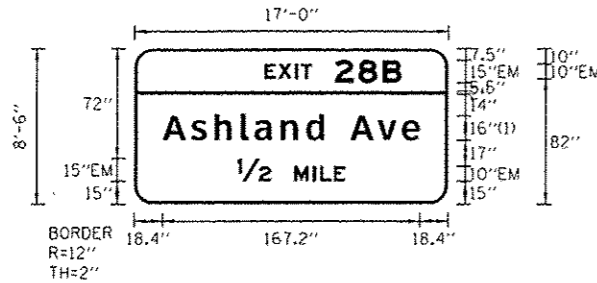
**TEMPORARY BRIDGE MOUNT (EB I-290)**  
 STAGE 2 AND 3

**NOTES:**  
 ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.

<b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1400        CHICAGO, IL 60601-5274        PHONE 312 373-7700 FAX 312 373-6800</small>	DIGW25-Sub-Pmk-Sign-07.dgn	DESIGNED - BMC	REVISED - 7/19/2013	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURES</b> <b>SIGN PANEL PLACEMENT</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	USER NAME = chris	DRAWN - BMC	REVISED -		90/94/290	2013-007R	COOK	317	113				
	PLOT SCALE = 5.0000 1" = 50'	CHECKED - AFC	REVISED -		SCALE: 1" = 5'    SHEET 2 OF 2 SHEETS    STA.    TO STA.				CONTRACT NO. 60W25				
	PLOT DATE = 7/16/2013	DATE - 5/14/2013	REVISED -		ILLINOIS FED. AID PROJECT								

**SIGN DETAIL**

1:75



FONT:  
(1) ClearviewHwy-5-W

SIGN NUMBER	WB-03-BM
WIDTH x HGHT.	17'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective
	COLOR: Green
LEGENDBORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

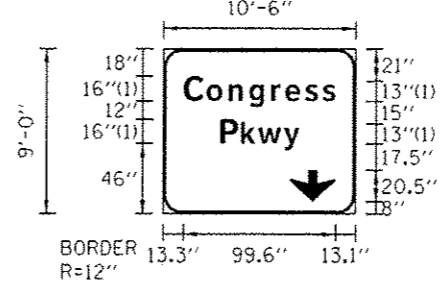
Panel Style: guide\_exp\_advance\_a.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIESIZE
E	X	I	T	2	8	B								EM	2000
84.5	93.3	104.1	107.9	130.3	145.6	161.4								89	10,15
A	s	h	l	a	n	d	A	v	e					ClearviewHwy-5-W	
18.4	36.7	52	69.2	78.1	95.1	111.6	123.3	140.5	156.1	173.9				167.2	1613
12	M	I	L	E										EM	2000
66.9	103.9	116	120.8	129.8										70.3	15,10

**SIGN DETAIL**

1:75



FONT:  
(1) ClearviewHwy-5-W

SIGN NUMBER	EB-01-BM
WIDTH x HGHT.	10'-6" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective
	COLOR: Green
LEGENDBORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARROW	360	83.1	8	29.9	20.5

Panel Style: guide\_exp\_advance\_a.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)														LENGTH	SERIESIZE
C	o	n	g	r	e	s	s							ClearviewHwy-5-W	
13.3	28.4	42.9	56.3	70.7	80	92.9	104.4							99.3	16,1310.6
P	k	w	y											ClearviewHwy-5-W	
37.4	51	62.1	79.1											51.9	16,1310.6

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0160W25-sht-Sign-Bridge-Detail-02  
USER NAME: chun  
PLOT SCALE: 5.00000 ' / in.  
PLOT DATE: 7/16/2013

DESIGNED - AFC  
DRAWN - AFC  
CHECKED - DBM  
DATE - 5/14/2013

REVISED - A 7/19/2013  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN PANEL DETAILS

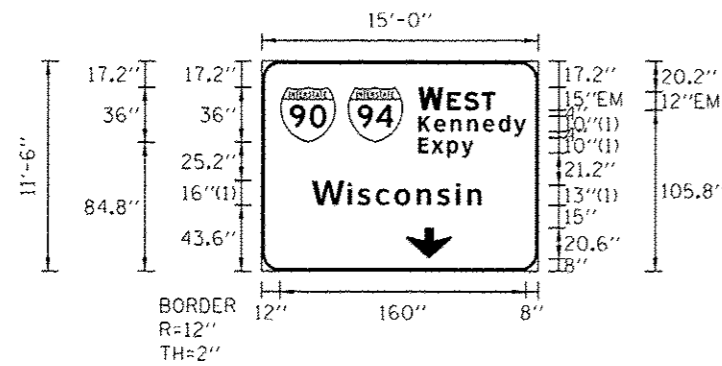
SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	115
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



**SIGN DETAIL**

1:75



FONT:  
(1) ClearviewHwy-5-W

Panel Style: guide\_exp\_advance\_a.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

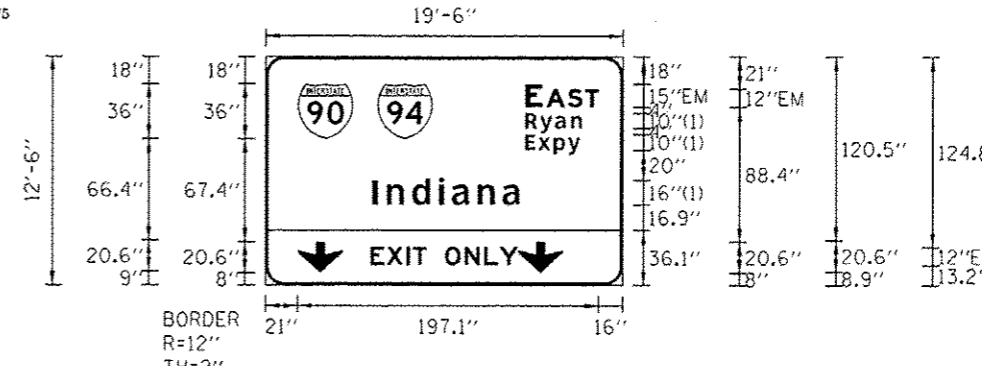
SIGN NUMBER	EB-02-BM
WIDTH x HGHT.	15'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
MI_1	0	12	84.8	36	36
MI_1	0	56	84.8	36	36
ARDDOWN	0	94	8	30	20.6

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
W	E	S	T									EM 2000
101.9	120.5	131.5	143.1								50	15.12
K	e	n	n	e	d	y						ClearviewHwy-5-W
101.9	112.1	122.9	133.6	143.9	154.3	164.2					70.1	108.1
E	x	p	y									ClearviewHwy-5-W
101.9	110.3	120.5	130								35.9	108.1
W	i	s	c	o	n	s	i	n				ClearviewHwy-5-W
32.7	55.9	62.6	74.6	86.6	101.1	114	126.2	133.9			110.2	16.13/10.6

**SIGN DETAIL**

1:75



FONT:  
(1) ClearviewHwy-5-W

Panel Style: guide\_exp\_advance\_a.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-03-BM
WIDTH x HGHT.	19'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Retro Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: Black/White/Yellow

SYMBOL	ROT	X	Y	WID	HT
MI_1	0	21	96	36	36
MI_1	0	73	96	36	36
ARDDOWN	0	21	8	30	20.6
ARDDOWN	0	26.8	9	30	20.6
ARDDOWN	0	166	8	30	20.6
ARDDOWN	0	177.4	8.9	30	20.6

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
E	A	S	T									EM 2000
169.9	183.7	197.6	209.2								48.1	16.12
R	y	a	n									ClearviewHwy-5-W
169.9	179.6	189.4	200								37.1	108.1
E	x	p	y									ClearviewHwy-5-W
169.9	178.3	188.5	198								35.9	108.1
I	n	d	i	a	n	a						ClearviewHwy-5-W
70	79.4	96	113.3	121.9	138.8	155.1					96.9	16/13
E	X	I	T		O	N	L	Y				E 2000
68.8	79.5	92.3	96.5	105.5	117.5	130.3	143.2	153.1			96.6	12

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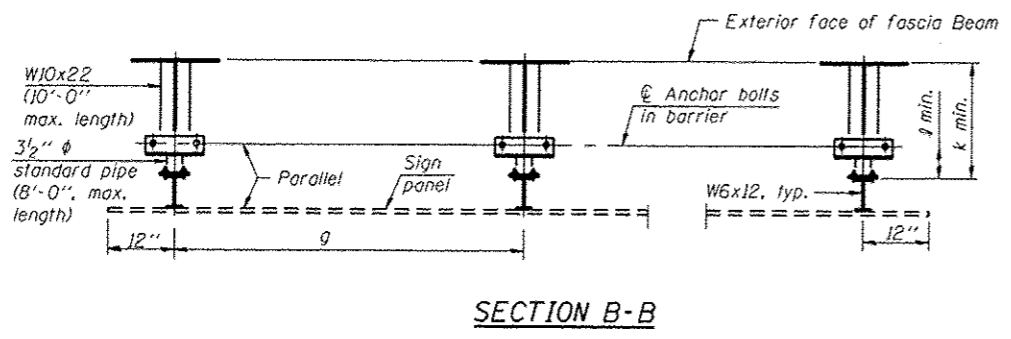
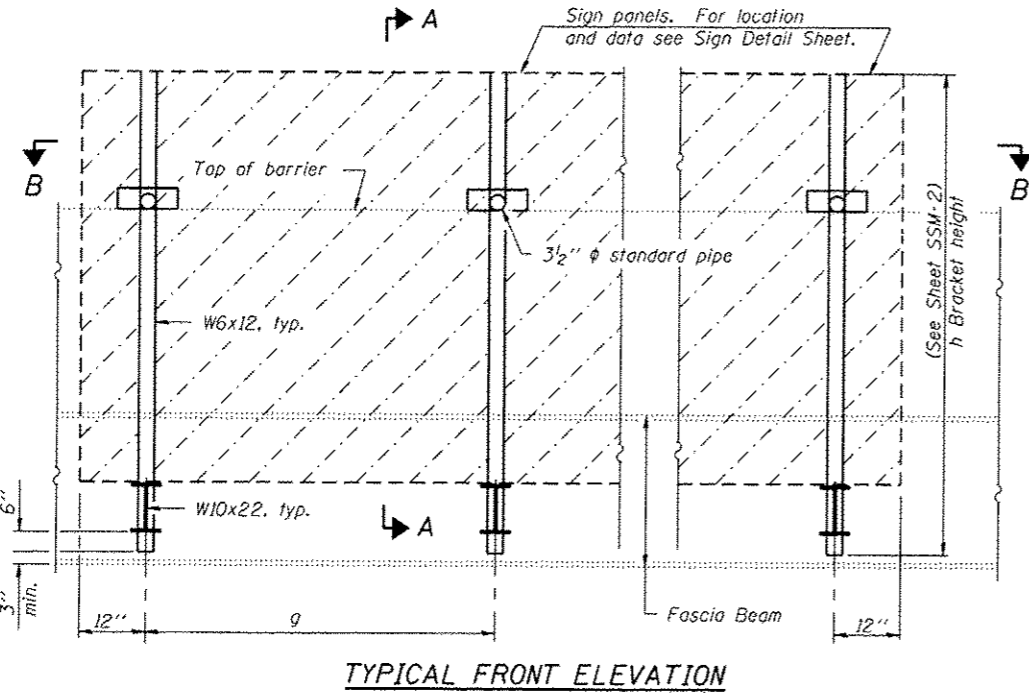
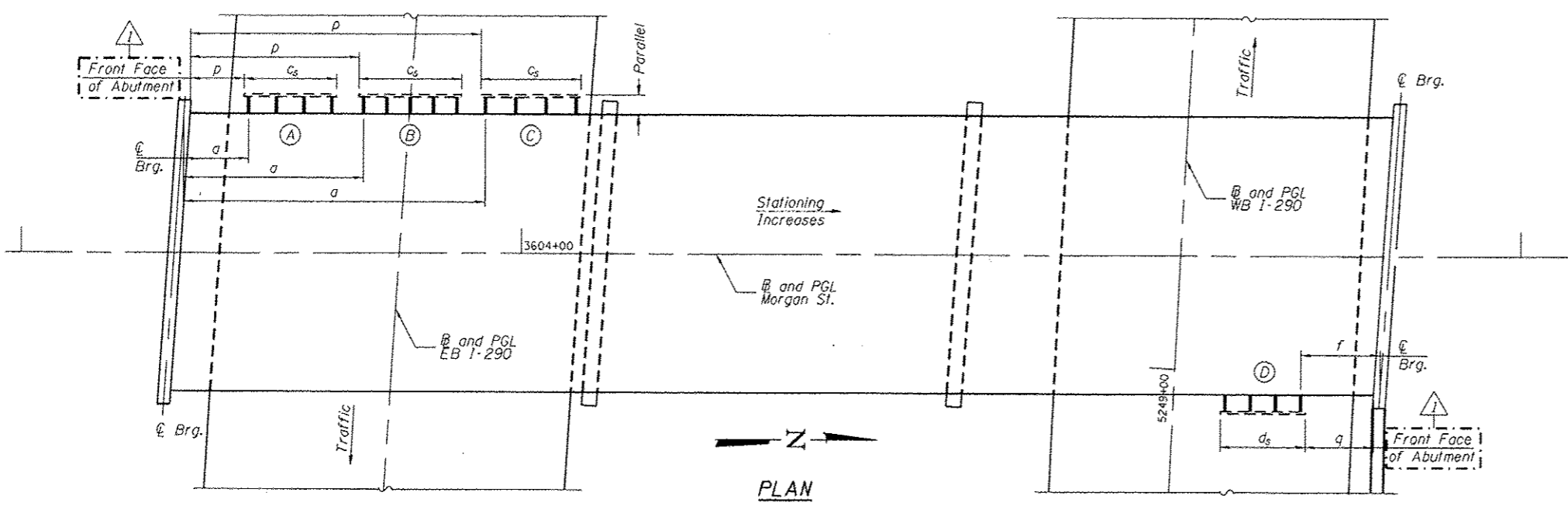
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USER NAME: chiva  
PLOT SCALE: 5.0000' / 1" =  
PLOT DATE: 7/9/2013

DESIGNED	-	AFC	REVISED	-	7/19/2013
DRAWN	-	AFC	REVISED	-	
CHECKED	-	DBM	REVISED	-	
DATE	-		REVISED	-	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN PANEL DETAILS  
SCALE: NTS SHEET 2A OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	115A
CONTRACT NO. 60W25			ILLINOIS/FED. AID PROJECT	



**NOTES:**

1. "a" and "f" are measured from  $\bar{C}$  bearing along  $\bar{C}$  of fascia beam/girder to center of bracket.
2. "p" and "q" are measured from front face of abutment along  $\bar{C}$  of fascia beam/girder to edge of sign.
3.  $c_s$  &  $d_s$  = sign width
4. For Section A-A, see sheet SSM-2.
5.  $c_s$  and  $d_s$  are pay item limits for Overhead Sign Structures-Bridge Mounted.

Structure Number	Bridge Station	Bridge Structure Number	Contract Route Designation	a	$c_s$	$d_s$	f	g	No. of Brackets (Total)	p	q
1B0161290L029.5A	3603+53.74	016-1709	EB 1-290	12'-9 1/2"	18'-6"	-	-	5'-6"	4	10'-9 1/2"	-
1B0161290L029.5B	3603+77.30	016-1709	EB 1-290	35'-4 1/4"	20'-6"	-	-	4'-7 1/2"	5	33'-4 1/4"	-
1B0161290L029.5C	3604+01.86	016-1709	EB 1-290	60'-1 7/8"	20'-0"	-	-	6'-0"	4	58'-1 7/8"	-
1B0161290R029.5D	3605+47.81	016-1709	WB 1-290	-	-	17'-0"	16'-5 1/2"	5'-0"	4	-	14'-5 1/2"

⚠ Dimensions a, f & g may vary as approved by the Engineer, see Specifications.

**TOTAL BILL OF MATERIAL**

OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	76
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**GENERAL NOTES**

**SPECIFICATIONS:**  
**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")  
**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")  
**LOADING:** 90 M.P.H. WIND VELOCITY  
**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)  
**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.  
**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).  
**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.  
**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.  
**ANCHOR RODS:** All threaded rod shall conform to ASTM F1554 Grade 105, 3/4"  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

**INDEX OF SHEETS**

SSM-1 Bridge Mount Sign Structures General Plan and Elevation  
 SSM-2 Bridge Mount Sign Structures and Connection Details  
 SSM-3 Bridge Mount Sign Structures Connection Details



Signed Moussa A. Issa  
 Dr. Moussa A. Issa, S.E. II, Lic. No. 081-005738  
 Expires 11-30-2014  
 Date 07/19/13

**HBM**  
 ENGINEERING GROUP, LLC.  
 CONSULTING & DESIGN  
 INSPECTION & TESTING  
 RESEARCH & TESTING  
 4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSDALE, IL 60162  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

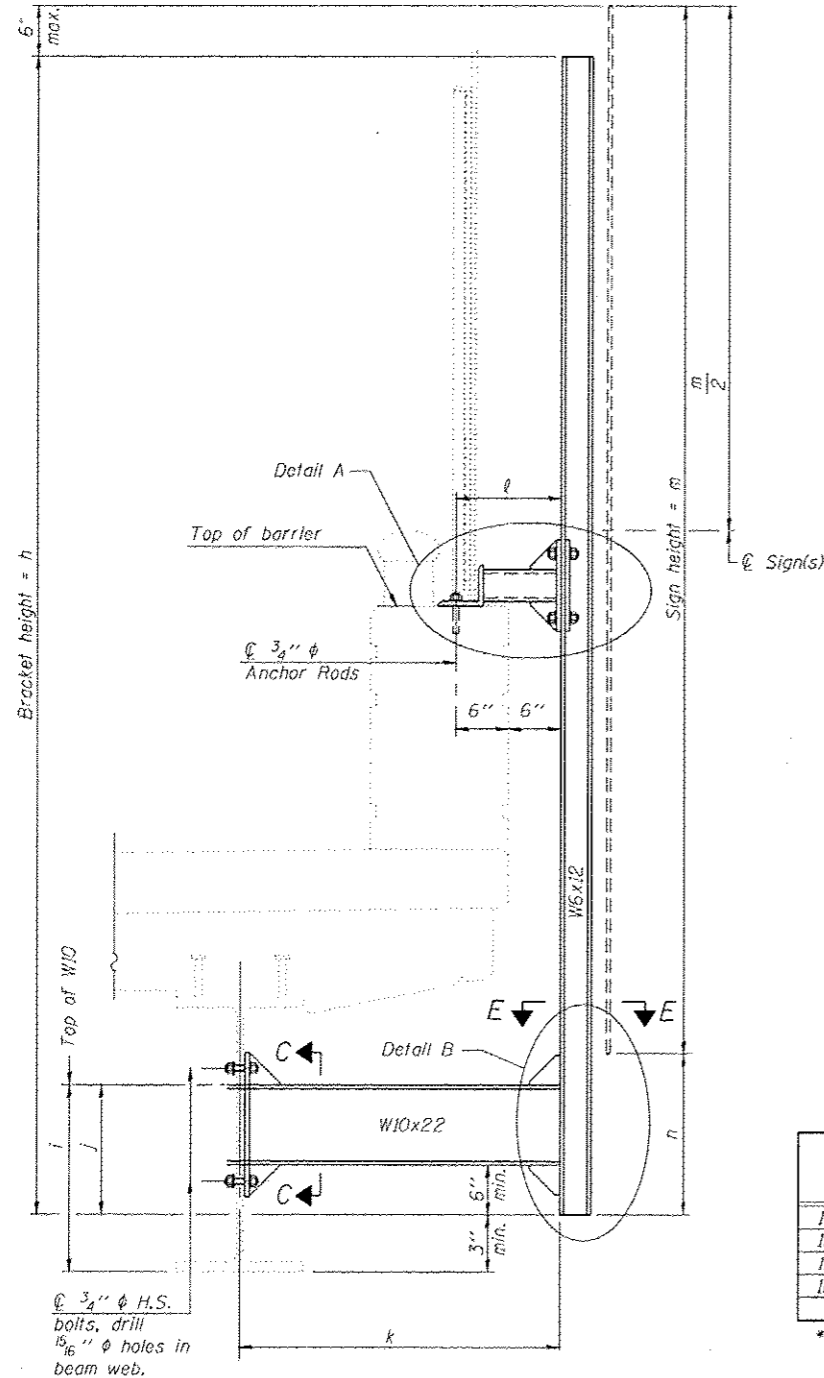
DESIGNED - MI, MWM  
 DRAWN - MWM  
 CHECKED - MAL, MI  
 DATE - 6/17/2013  
 REVISED - 07/15/2013 LAB

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

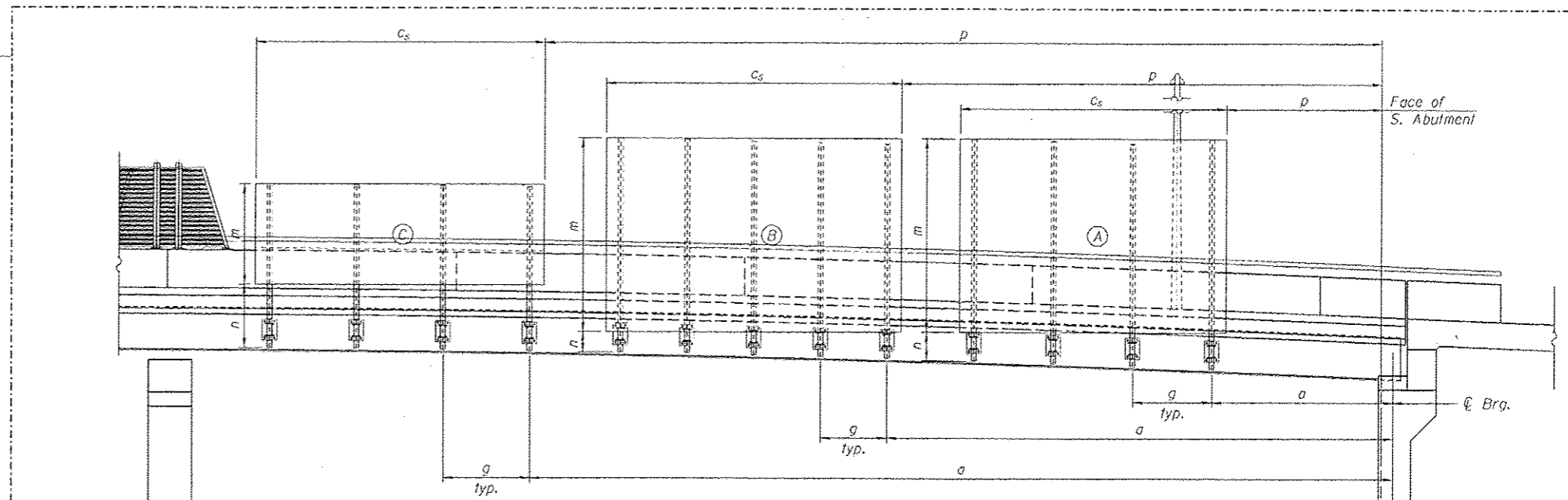
**BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 016-1709**

SCALE: SHEET SSM-1 OF 3 SHEETS STA. TO STA.

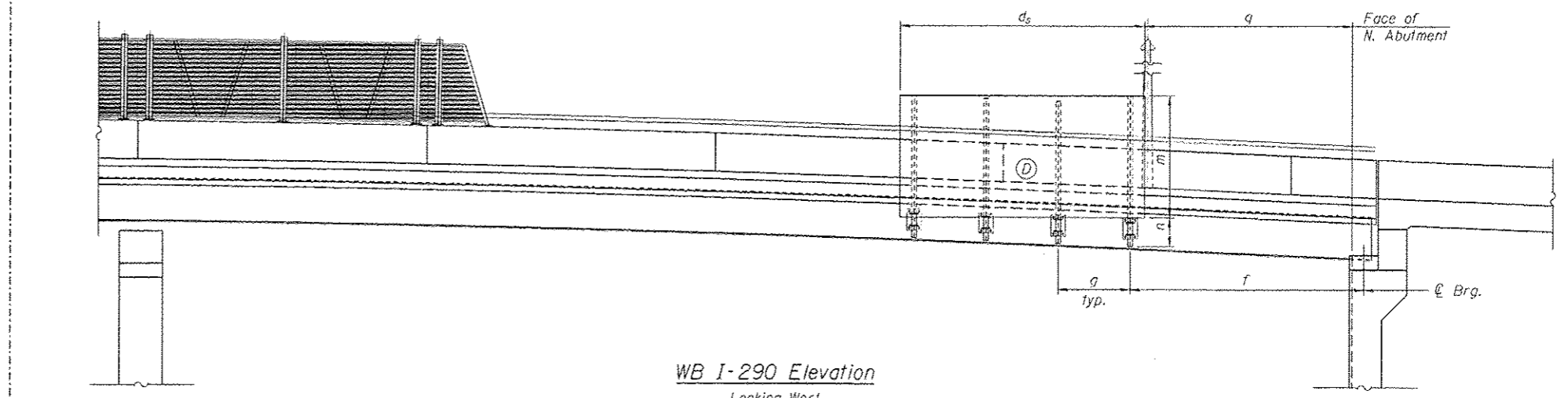
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	116
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



SECTION A-A



EB I-290 Elevation  
Looking East



WB I-290 Elevation  
Looking West

Structure Number	Bridge Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)	n (1'-5" min.)
IB0161290L029.5A	3603+53.74	*	1'-11"	1'-4 1/4"	3'-5"	1'-0"	13'-6"	*
IB0161290L029.5B	3603+77.30	14'-11"	1'-11"	1'-4 1/4"	3'-5"	1'-0"	13'-6"	*
IB0161290L029.5C	3604+01.86	11'-5"	1'-11"	1'-4 1/4"	3'-5"	1'-0"	7'-0"	*
IB0161290R029.5D	3605+47.81	*	1'-11"	1'-4 1/4"	3'-5"	1'-0"	8'-6"	*

\* varies, see table below

Structure Number	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	n <sub>1</sub>	n <sub>2</sub>	n <sub>3</sub>	n <sub>4</sub>	n <sub>5</sub>
IB0161290L029.5A	16'-0 1/4"	15'-5 3/4"	15'-5 3/4"	15'-5 3/4"	-	2'-6 1/2"	2'-4"	2'-1 3/4"	1'-11 3/4"	-
IB0161290L029.5B	14'-11"	14'-11"	14'-11"	14'-11"	14'-11"	1'-9 3/4"	1'-8 1/4"	1'-7"	1'-5 1/2"	1'-5"
IB0161290L029.5C	11'-5"	11'-5"	11'-5"	11'-5"	-	4'-7"	4'-6"	4'-5 1/2"	4'-5"	-
IB0161290R029.5D	9'-11"	9'-11"	9'-11"	10'-6"	-	1'-5"	1'-7 1/4"	1'-9 1/2"	2'-0"	-

h<sub>1</sub>/n<sub>1</sub> corresponds with the most southern bracket, then ascending to the most northern bracket h<sub>4</sub>/n<sub>4</sub>.

NOTES:

- Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.
- Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
- All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. Proposed exceptions must be approved by the Bureau of Bridges and Structures.
- The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.
- For Details A, & B, Sections C-C, and E-E, see Sheet SSM-3.

**HBM**  
ENGINEERING GROUP, LLC  
4415 WEST HARRISON ST.  
SUITE 233  
MILLICAN, IL 60162  
TEL: 708-236-0900  
FAX: 708-236-0901

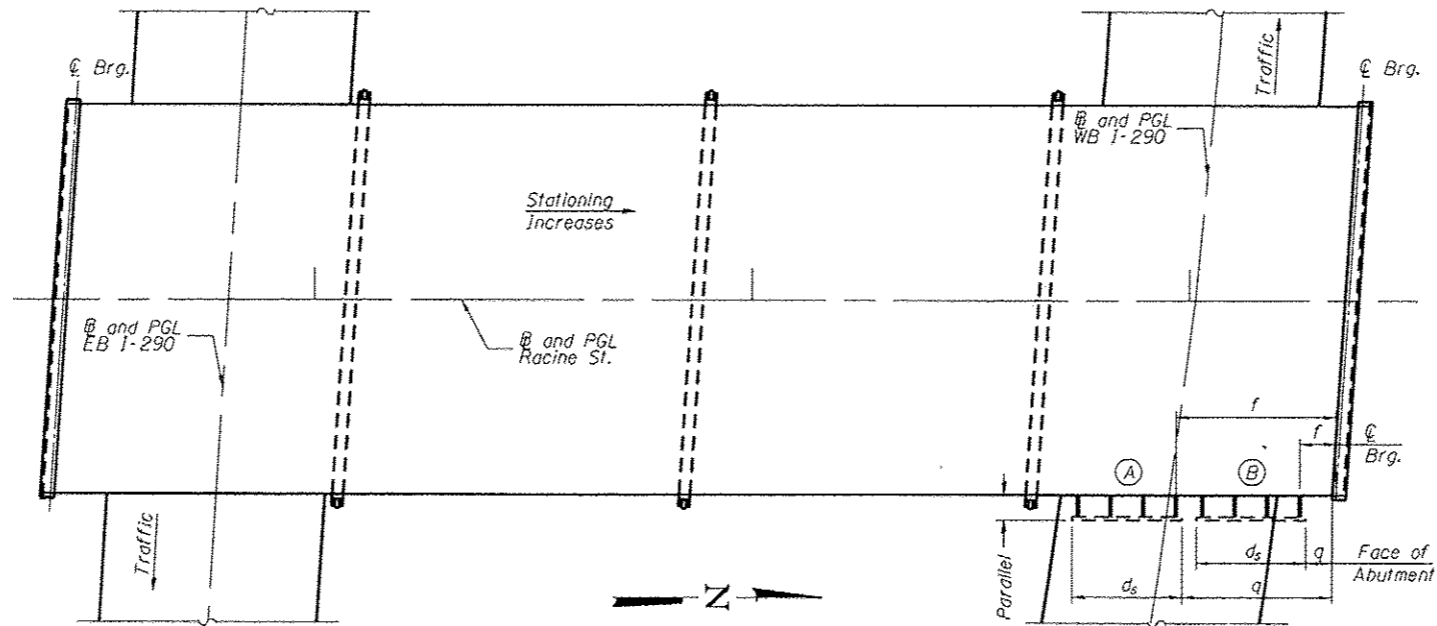
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USER NAME: ahrmad.111111  
PLOT SCALE: 0.1/0.0000 1" = 10'  
PLOT DATE: 6/17/2013

DESIGNED - MI, MWM  
DRAWN - MWM  
CHECKED - MAI, MI  
DATE - 6/17/2013  
REVISED - 7/19/2013 LAB  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
BRIDGE MOUNT SIGN STRUCTURES AND CONNECTION DETAILS  
STRUCTURE NO. 016-1709

SCALE: SHEET SSM-2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	117
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



PLAN

**GENERAL NOTES**

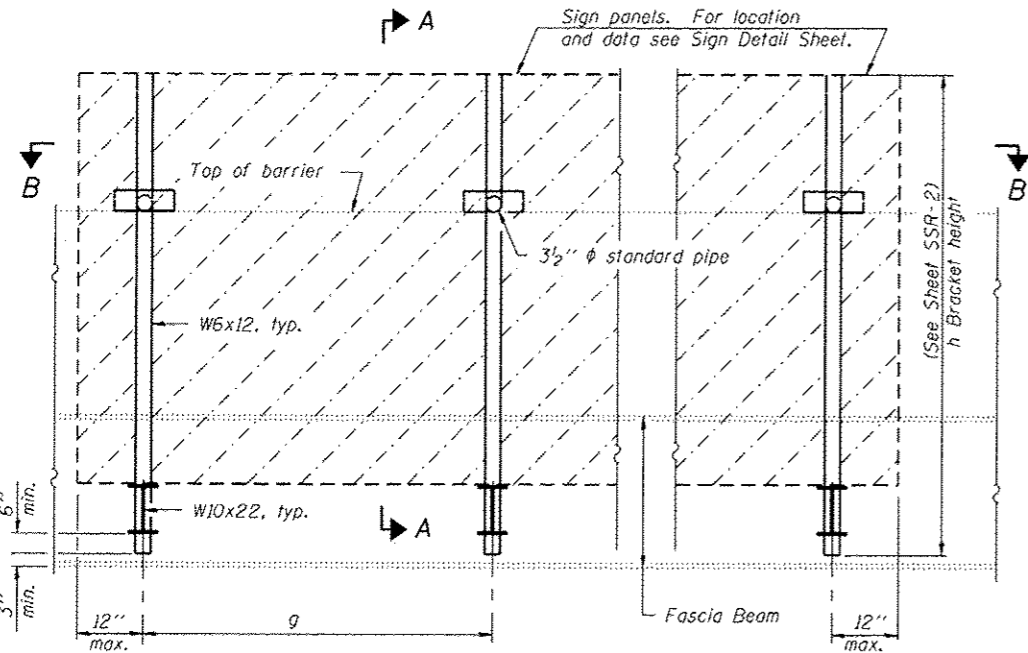
**SPECIFICATIONS:**  
**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")  
**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")  
**LOADING:** 90 M.P.H. WIND VELOCITY  
**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)  
**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.  
**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).  
**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

**ANCHOR RODS:** All threaded rod shall conform to ASTM F1554 Grade 105,  $\frac{3}{4}$ "  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

**INDEX OF SHEETS**

SSR-1 Bridge Mount Sign Structures General Plan and Elevation  
 SSR-2 Bridge Mount Sign Structures and Connection Details  
 SSR-3 Bridge Mount Sign Structures Connection Details



TYPICAL FRONT ELEVATION

**NOTES:**

- "a" and "f" are measured from  $\phi$  bearing along  $\phi$  of fascia beam/girder to center of bracket.
- "p" and "q" are measured from front face of abutment along  $\phi$  of fascia beam/girder to edge of sign.
- $c_s$  &  $d_s$  = sign width
- For Section A-A, see sheet SSR-2.
- $c_s$  and  $d_s$  are pay item limits for Overhead Sign Structure-Bridge Mounted.

Structure Number	WB I-290 Station	WB I-290 Offset	Bridge Structure Number	Contract Route Designation	a	$c_s$	$d_s$	f	g	No. of Brackets (Total)	p	q
1B0161290L029.3A	5262+87.63	7.36LT	016-2115	WB I-290	-	-	15'-6"	37'-4 $\frac{1}{4}$ "	4'-6"	4	-	35'-4 $\frac{1}{4}$ "
1B0161290L029.3B	5262+91.17	19.55RT	016-2115	WB I-290	-	-	17'-0"	9'-5 $\frac{1}{2}$ "	5'-0"	4	-	7'-5 $\frac{1}{2}$ "

Dimensions f & g may vary as approved by the Engineer, see Specifications.

**TOTAL BILL OF MATERIAL**

OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	33
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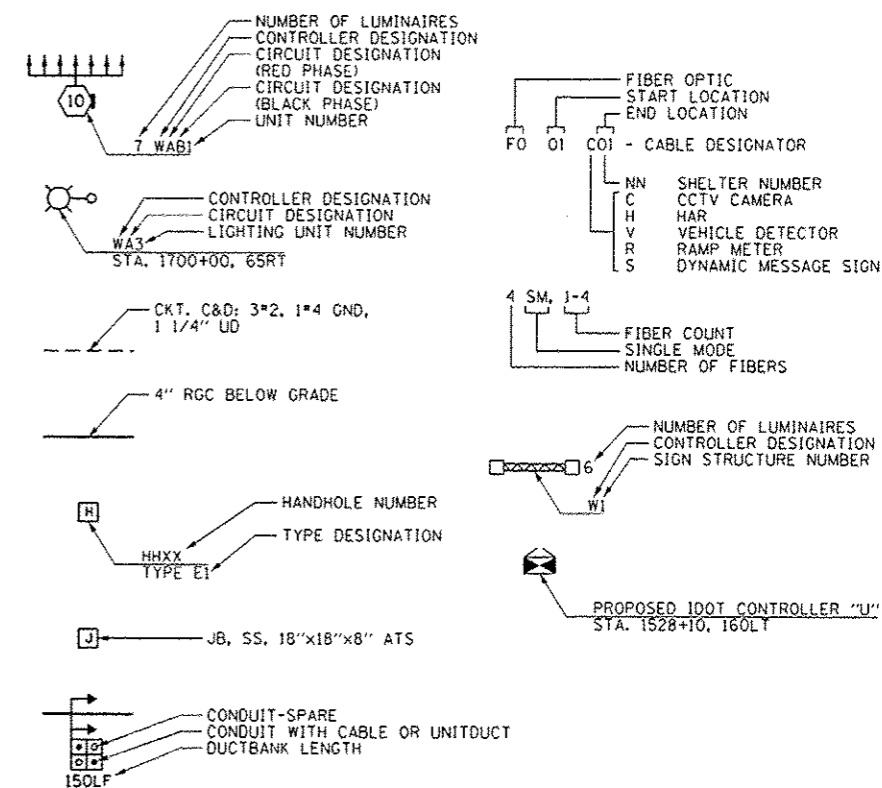
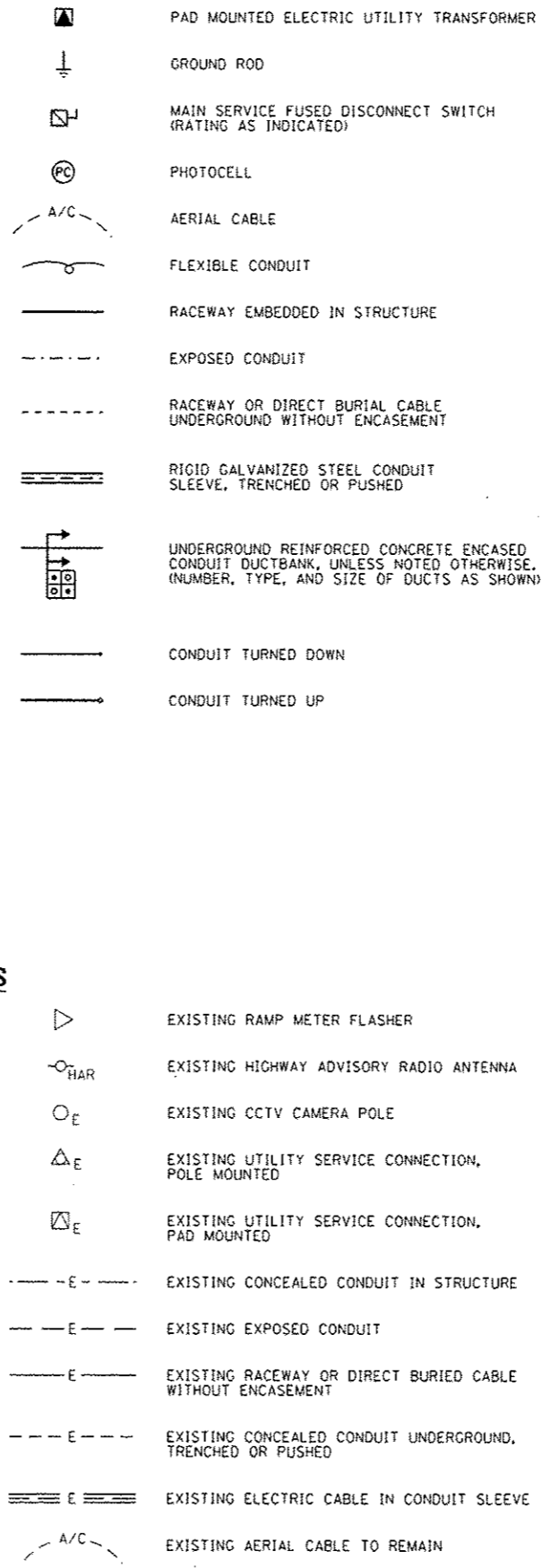
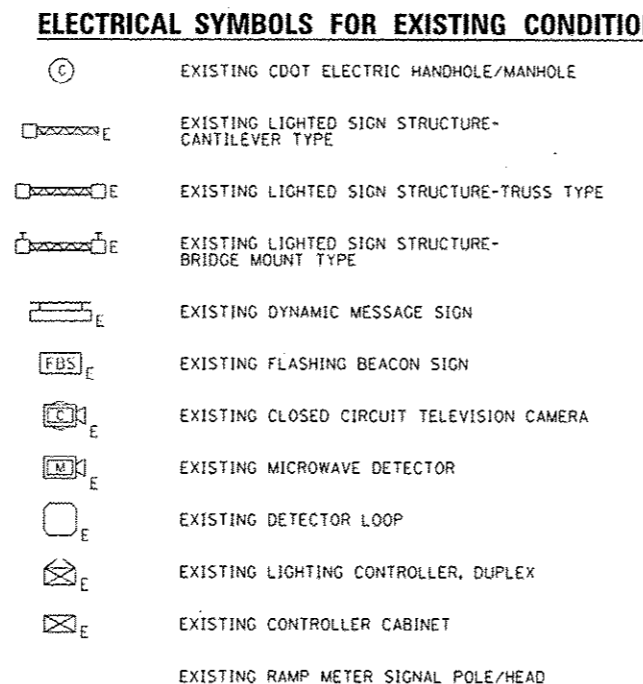
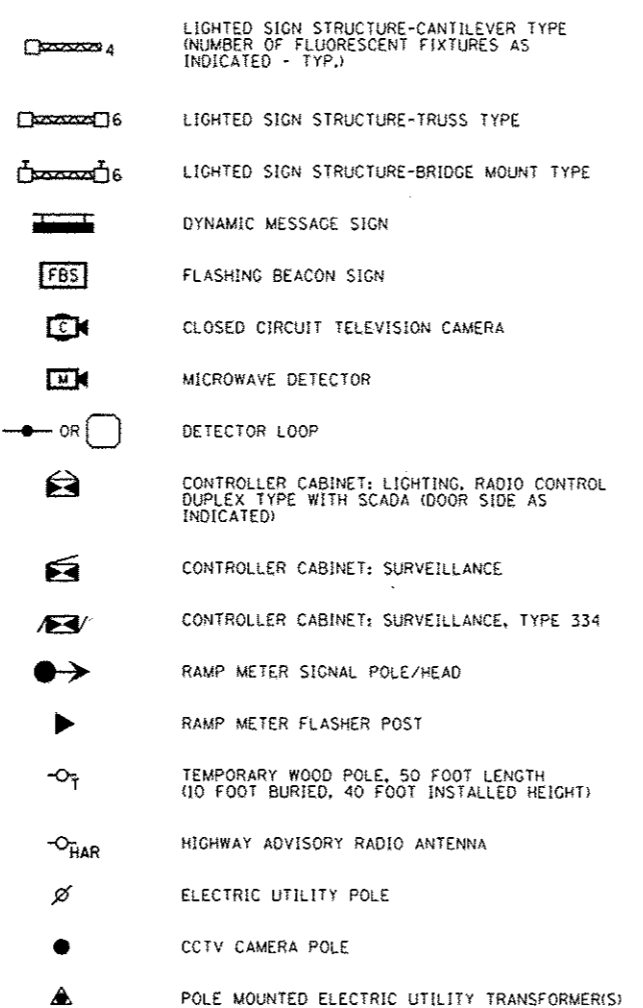
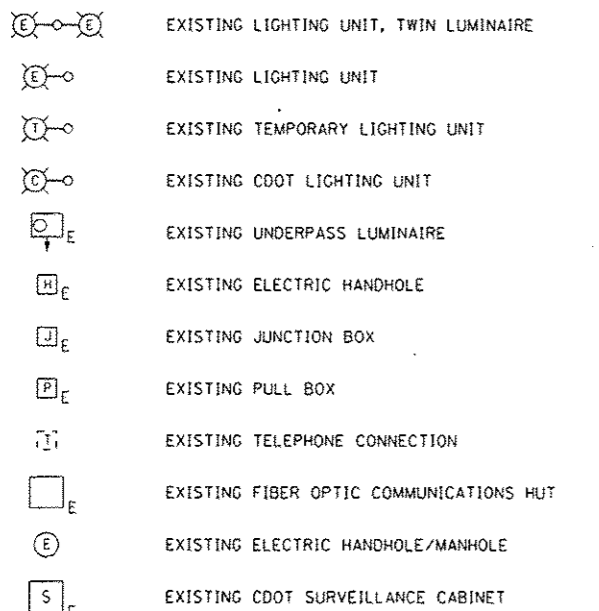
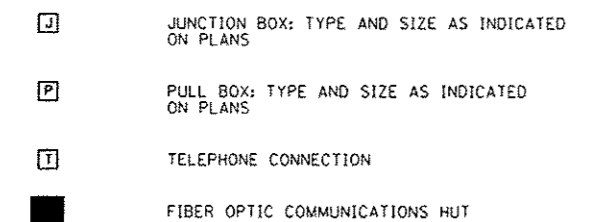
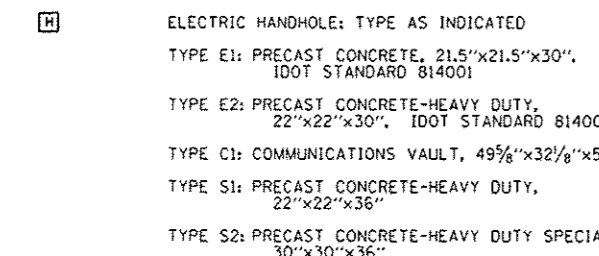
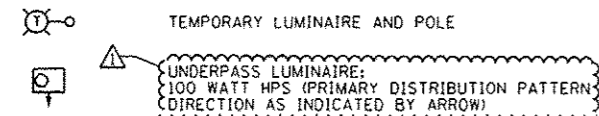
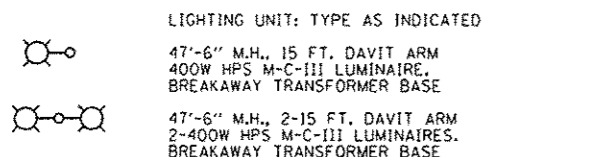
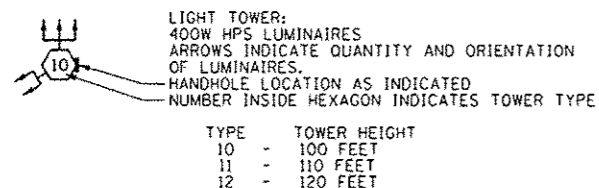


Signed Moussa A. Issa  
 Dr. Moussa A. Issa, S.E. II. Lic. No. 081-005738  
 Expires 11-30-2014  
 Date 07/19/13

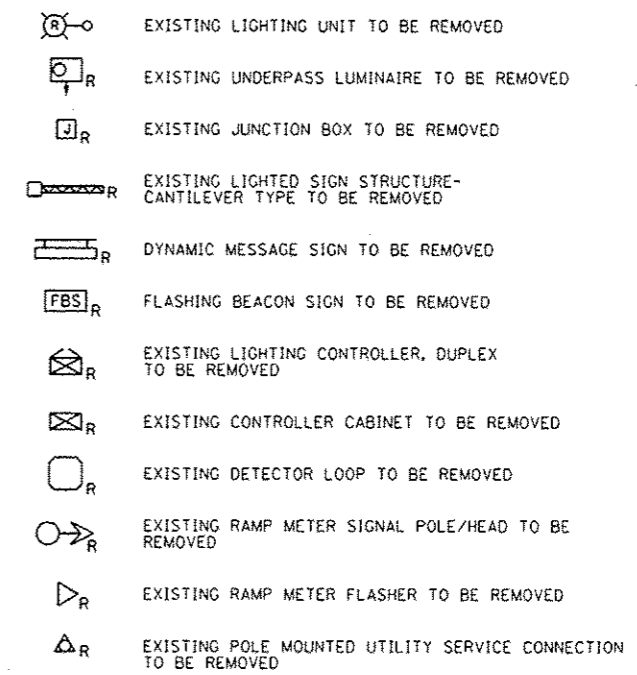
FILE PATH: c:\pwworking\hbm\project\016-2115\016-2115-SSR-1.dgn  
 HBM ENGINEERING GROUP, INC.  
 4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSDALE, IL 60142  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

**ELECTRICAL SYMBOLS FOR PROPOSED WORK**

**GENERAL ELECTRICAL CALLOUTS**



**TYPICAL EXISTING TO BE REMOVED SYMBOLS**



FILE PATH: \\sma\188828\paul\cascom\time\local\pawc\6025\Documents\AECOM\Transportation\6025\6025-Civil\Phase 1\1000\_CAD\16\_Electrical\Sheet\6025-11-11-13.dwg  
 USER: paul.pawc  
 PLOT DATE: 7/12/2013



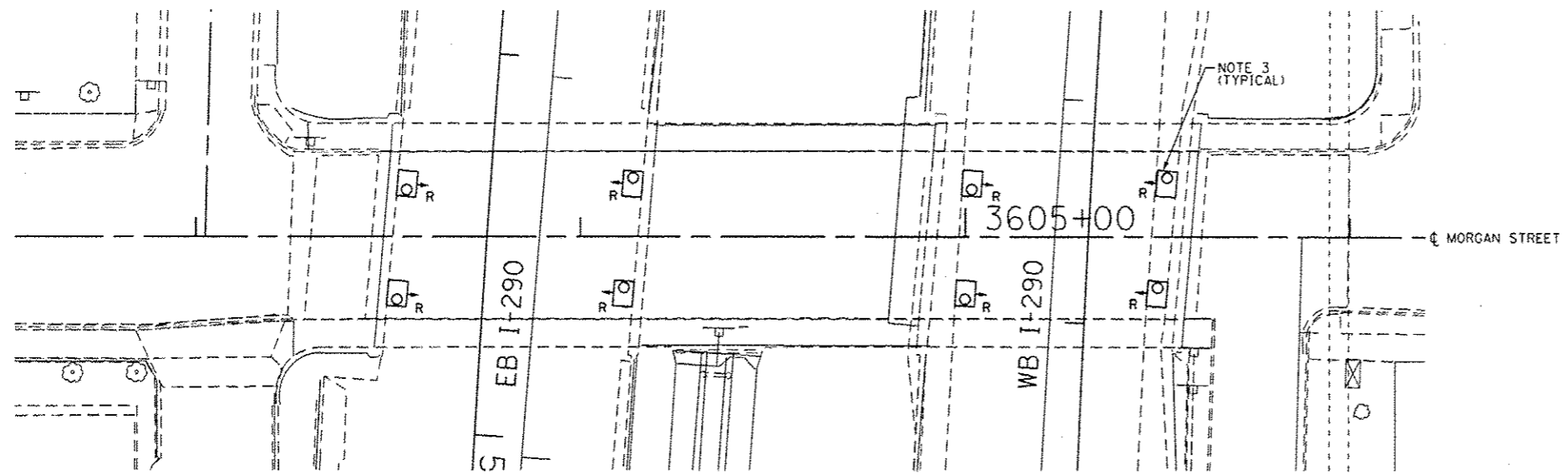
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DRAWN - CAM	REVISIONS
CHECKED - JPC	DATE - 6/17/2013
DATE - 6/17/2013	REVISIONS

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

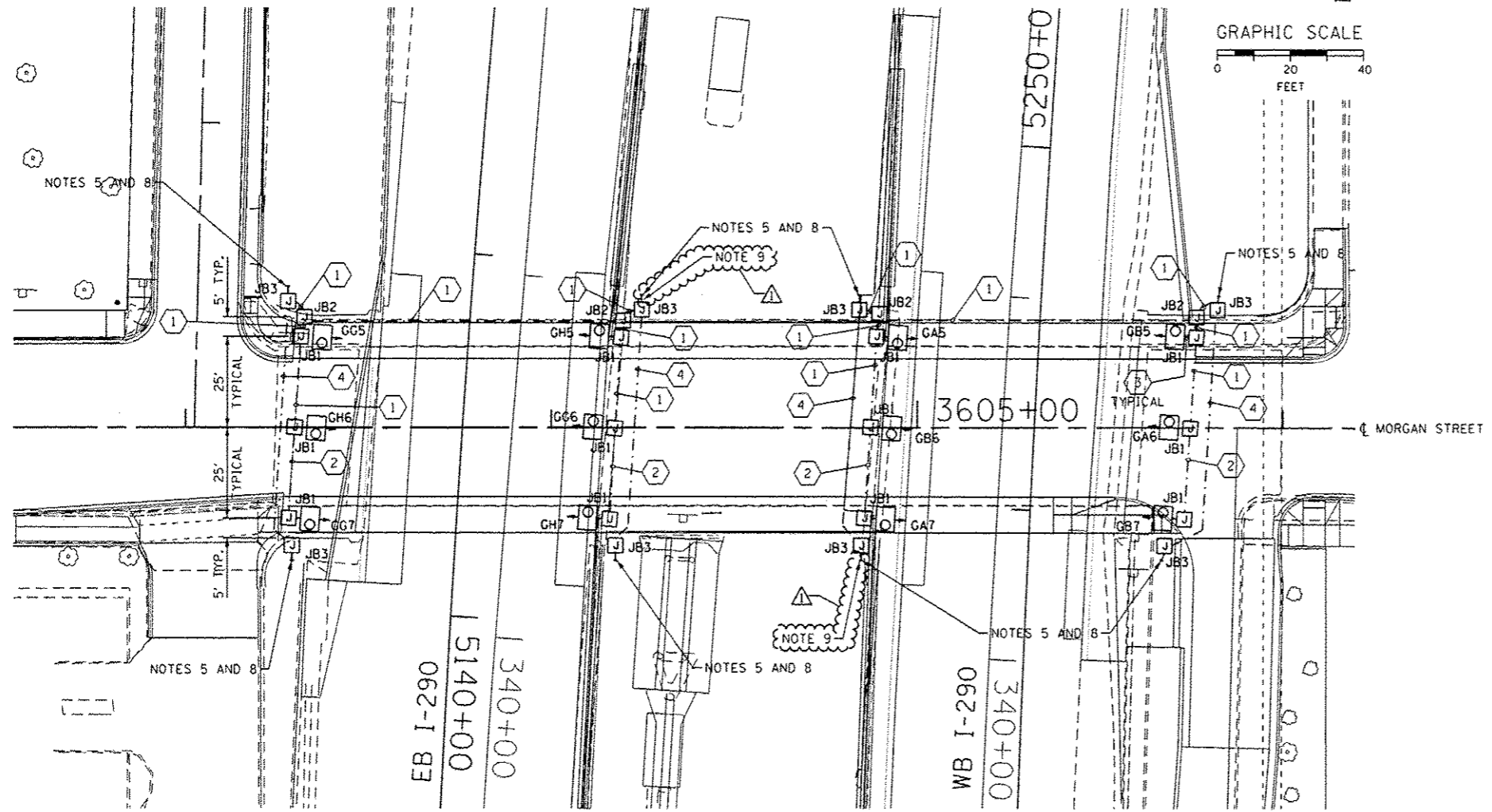
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	122
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				





**EXISTING UNDERPASS LIGHTING PLAN**



**PROPOSED UNDERPASS LIGHTING PLAN**

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVAL OF LIGHTING UNIT, SALVAGE" PAY ITEM.
4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PIER OR ABUTMENT WALL MOUNTED. SEE IDOT STANDARD DRAWING BE-902 FOR ADDITIONAL DETAILS.
5. STUB AND CAP 3" DIAMETER RIGID STEEL PVC COATED (PVCC) CONDUIT FOR FUTURE USE.
6. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM EXISTING IDOT LIGHTING CONTROLLER "C".
7. SEE DRAWING E-04 FOR THE TEMPORARY POWER CONNECTIONS TO THE UNDERPASS LIGHTING SYSTEM.
8. COIL 3 FEET OF CABLE IN JUNCTION BOX FOR FUTURE CONNECTIONS.
9. ALL VERTICAL CONDUIT RUNS ROUTED DOWN THE STRUCTURE SHALL BE INSTALLED ON THE INSIDE OF THE PIER FACING AWAY FROM TRAFFIC FLOW.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	3-1/2" C*10, 1-1/2" C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/2" C*10, 1-1/2" C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/2" C*10, 1-1/2" C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)
4	3-1/2" C*2, 1-1/2" C*4 GND IN 3" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)



D160425-shr-Light-B5  
 USER NAME: mprnac  
 PLOT SCALE: 20.0000' / 1" =  
 PLOT DATE: 7/12/2013

DESIGNED - WDS  
 DRAWN - CAM  
 CHECKED - JPC  
 DATE - 6/17/2013  
 REVISED - 7/19/2013

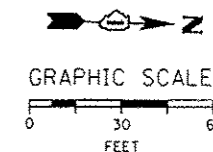
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MORGAN STREET UNDERPASS LIGHTING PLAN

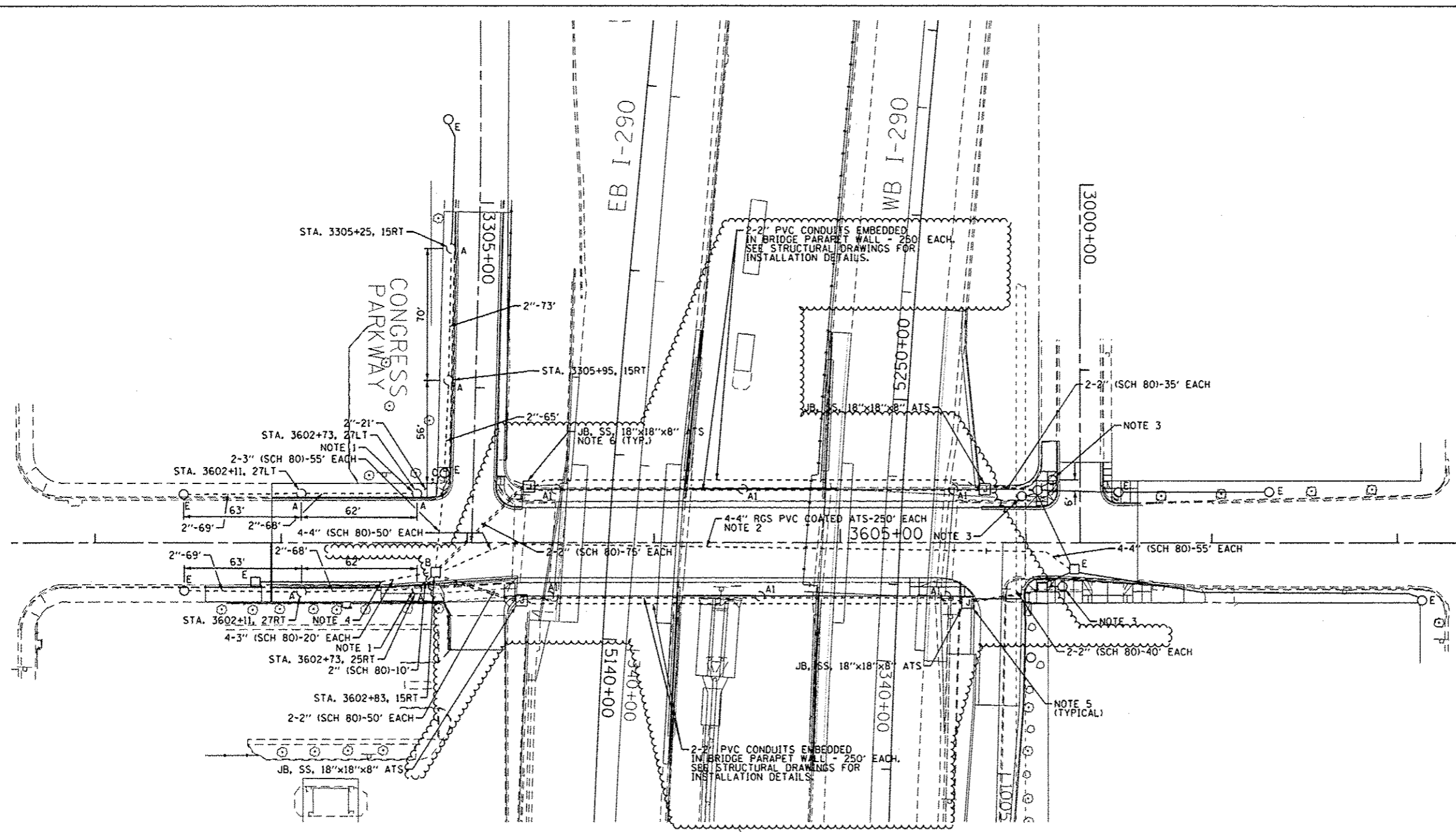
SCALE: SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	126
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

TOTAL SHEETS	SHEET NO.
317	128



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"A" PROVIDE 24"x7", 1-1/4" A.R., 15" B.C. FOUNDATION FOR RELOCATED LIGHT POLE, PER DWG. NOS. 818 AND 837.

"A1" LIGHT POLE FOUNDATION IS INTEGRAL TO THE BRIDGE PARAPET WALL. SEE STRUCTURAL PLANS FOR DETAILS AND FINAL LOCATION OF FOUNDATION.

"B" PROVIDE 3'x4'x4" CONCRETE MANHOLE PER DWG. NO. 730 WITH 24" FRAME AND COVER.

"C" DRILL EXISTING MANHOLE/HANDHOLE.

"E" EXISTING TO REMAIN.

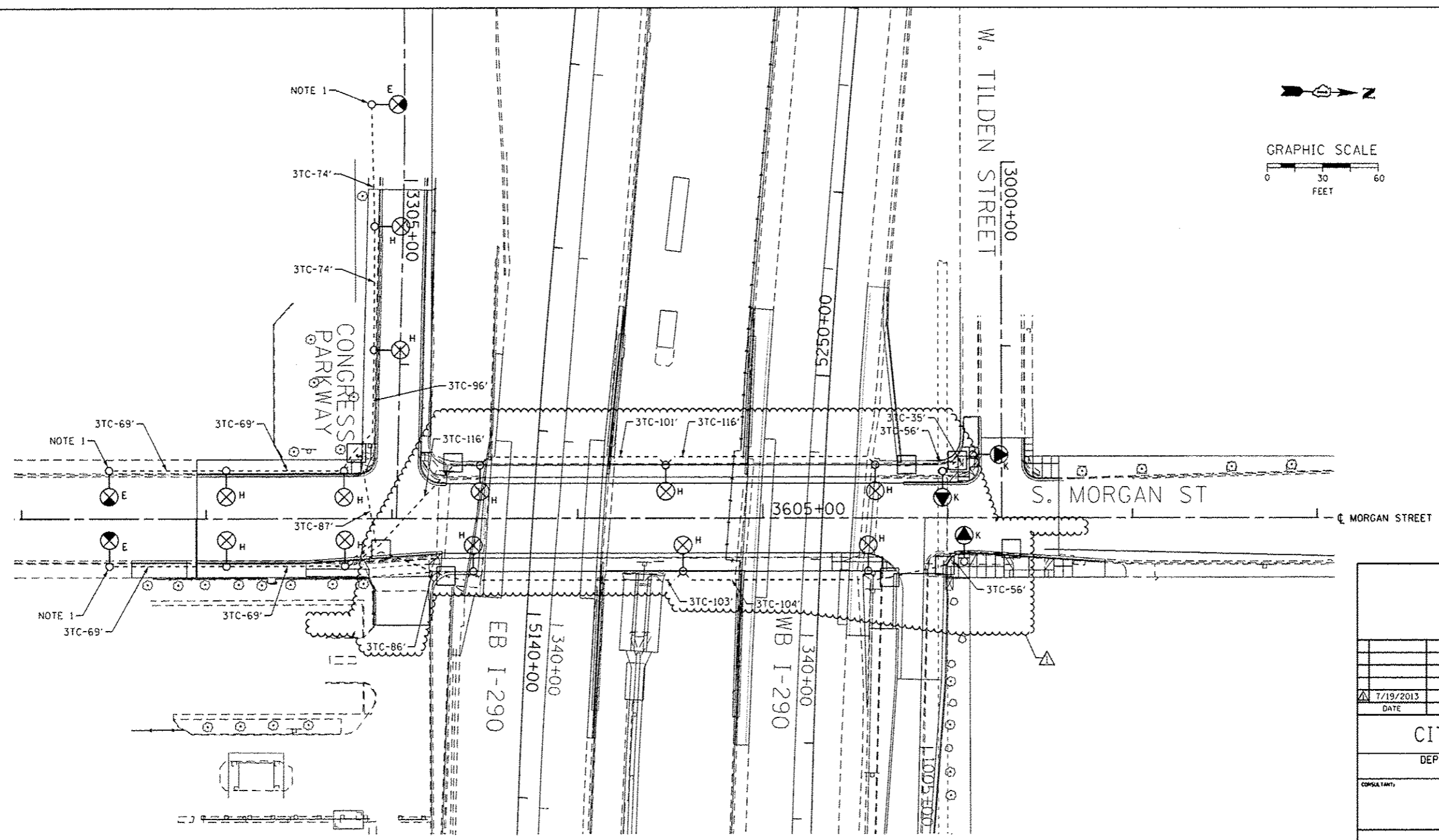
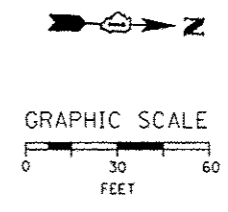
**NOTES:**

1. INTERCEPT EXISTING LIGHTING CONDUIT TO EXISTING LIGHT POLE. CUT CONDUIT AND EXTEND END OF EXISTING CONDUIT TO NEW FOUNDATION.
2. PROVIDE 4-4-INCH RIGID GALVANIZED STEEL PVC COATED CONDUITS ATTACHED TO STRUCTURE. THE CONDUITS SHALL BE MOUNTED UNDER THE BRIDGE DECK WITH THE ELECTRIC UTILITY (COMED) CONDUITS. SEE STRUCTURAL DRAWINGS.
3. SEE THE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION TRAFFIC SIGNAL/LIGHT POLE FOUNDATION.
4. INTERCEPT EXISTING CONDUITS AND CONNECT TO NEW CONDUITS ROUTED TO PROPOSED MANHOLE.
5. SEE DRAWING NO. E-10 FOR EMBEDDED CONDUIT EXITING PARAPET WALL DETAILS.
6. COORDINATE THE LOCATION OF THE JUNCTION BOXES AND CONDUITS ROUTED THROUGH THE ABUTMENT WITH THE LOCATION OF THE CONDUIT SLEEVES OPENINGS SHOWN ON THE STRUCTURAL PLANS.

FOR LIGHTING CABLE AND EQUIPMENT INSTALLATION PLANS SEE DRAWING NO. E-08.  
FOR LIGHTING REMOVAL PLANS SEE DRAWING NO. E-09.

DATE: 7/19/2013	REVISION:
<b>CITY OF CHICAGO</b> DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING	
CONSULTANT: <b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7100 FAX: (312) 373-6800</small>	
WORK ORDER NO. _____	DATE _____
COST ALLOCATION ACCOUNT _____	
APPROPRIATION ACCOUNT (MATERIAL _____ LABOR _____)	
<b>MORGAN STREET LIGHTING CONDUIT AND FOUNDATION PLAN</b>	
<b>CITY OF CHICAGO</b> DEPT. OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN: CAM	CHIEF DRAFTSMAN: ENGINEER: WDS
SUPERVISING ENGINEER/ELEC. DESIGN ENGR. JPC	
ENGINEER OF ELECTRICITY:	<b>E-07</b>
GEN'L SUPT. OF ELECTRICITY:	
DEPUTY COMMISSIONER:	
SIZE: 22"   34"	SCALE: 1" = 30'
DATE: 6/17/2013	DWG. NO. _____
C.O.D.T. PROJECT NO. _____ 7 OF 11	

TOTAL SHEETS	SHEET NO.
317	129



**NOTES:**  
 1. SPLICE NEW CABLES TO EXISTING LIGHTING CIRCUITS LOCATED IN EXISTING POLE.

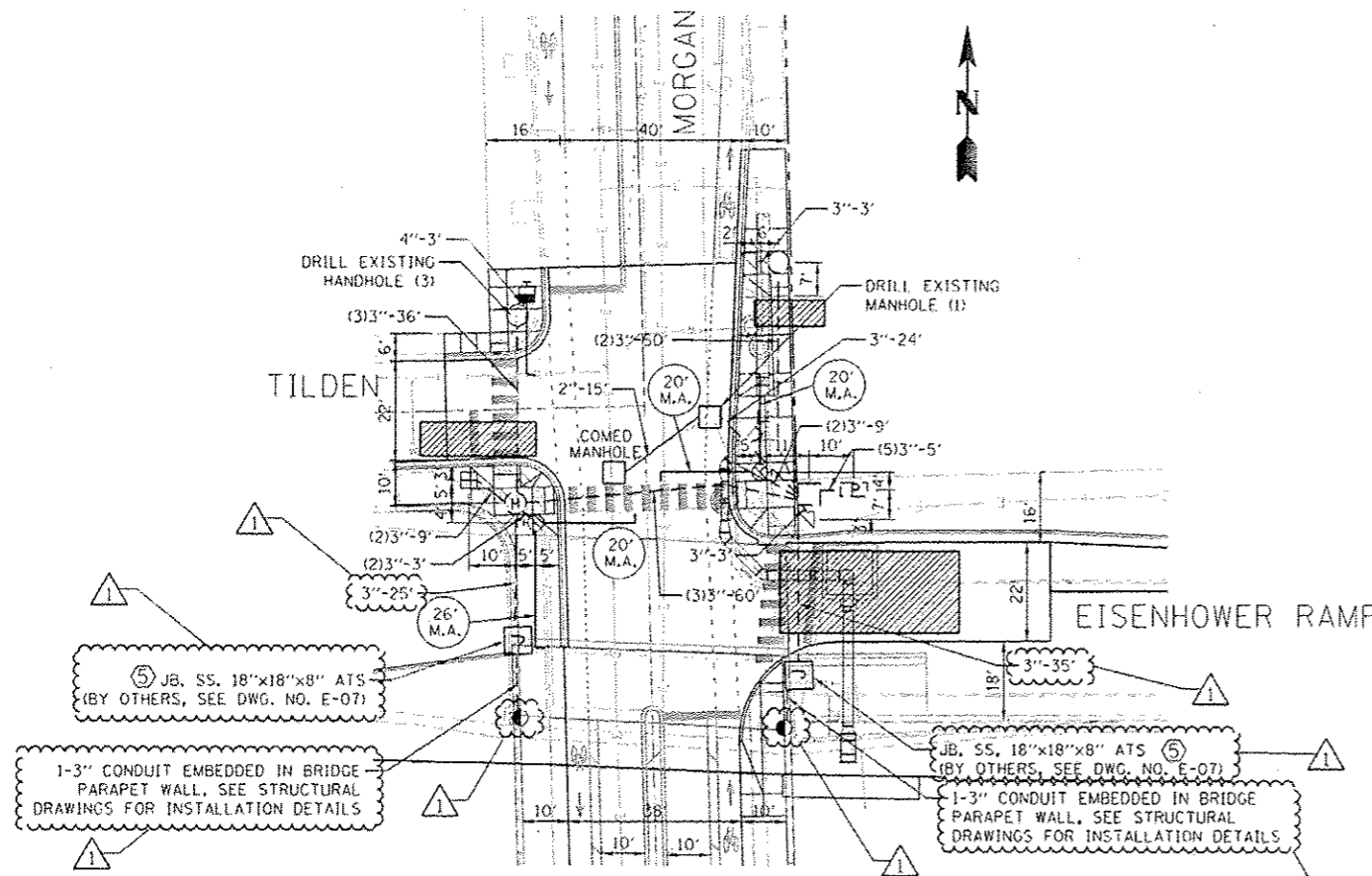
"H" INSTALL CDOT FURNISHED STEEL POLE, LUMINAIRE, MAST ARM AND BALLAST HOUSING (IF REQUIRED) BASE PER DRAWING NOS. 808 AND 785.  
 "K" REINSTALL MAST ARM AND LUMINAIRE ON A RELOCATED TRAFFIC SIGNAL/LIGHT COMBINATION POLE. SEE TRAFFIC SIGNAL PLANS FOR POLE LOCATIONS.

FOR CONDUIT AND FOUNDATION PLANS SEE DRAWING NO. E-07.  
 FOR LIGHTING REMOVAL PLANS SEE DRAWING NO. E-09.

7/12/2013 5:36:28 AM c:\pwworking\dec000\myer.sc\d0207894\160W25-sh1-Light-08.dgn

DATE: 7/19/2013	REVISION:
CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING	
CONSULTANT: <b>AECOM</b> <small>303 EAST WABER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-1100 FAX: (312) 373-6800</small>	
WORK ORDER NO. _____	DATE _____
COST ALLOCATION ACCOUNT _____	
APPROPRIATION ACCOUNT _____	MATERIAL _____
LABOR _____	
MORGAN STREET LIGHTING CABLE AND EQUIPMENT INSTALLATION PLAN	
CITY OF CHICAGO DEPT. OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN: CAM	CHIEF DRAFTSMAN: WDS
SUPERVISING ENGINEER/ELEC. DESIGN ENGR. JPC	
ENGINEER OF ELECTRICITY:	
GEN'L SUPT. OF ELECTRICITY:	
DEPUTY COMMISSIONER:	
SIZE: 22"   34"	SCALE: 1" = 30'
DATE: 6/17/2013	DWG. NO.: E-08
C.D.O.T. PROJECT NO.: _____	
8 OF 11	





**FOUNDATION AND CONDUIT PLAN**  
SCALE: 1"=20'

**CONSTRUCTION NOTES**

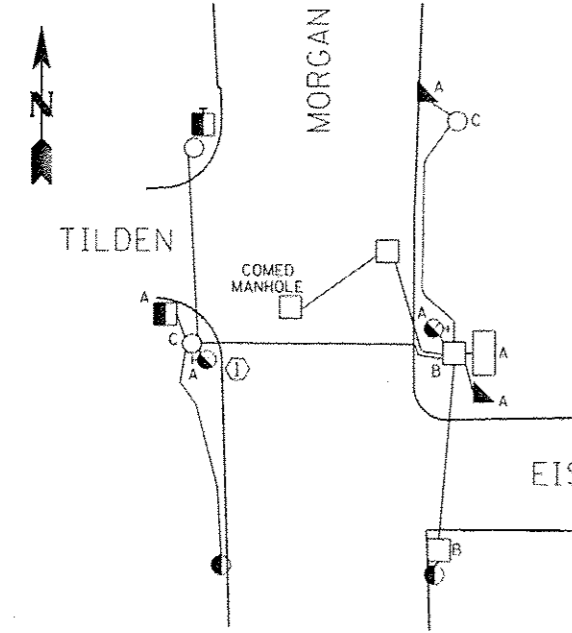
- CONTRACTOR MUST CONTACT FRANK KELLY AT THE OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATIONS (OEMC) PRIOR TO THE REMOVAL OF ANY SIGNAL EQUIPMENT TO COORDINATE THE REMOVAL AND REINSTALLATION OF OEMC EQUIPMENT AT THIS LOCATION BY OEMC STAFF. FRANK KELLY'S CONTACT IS PROVIDED BELOW.

FRANK KELLY  
312-746-9238  
Frank.Kelly@cityofchicago.org

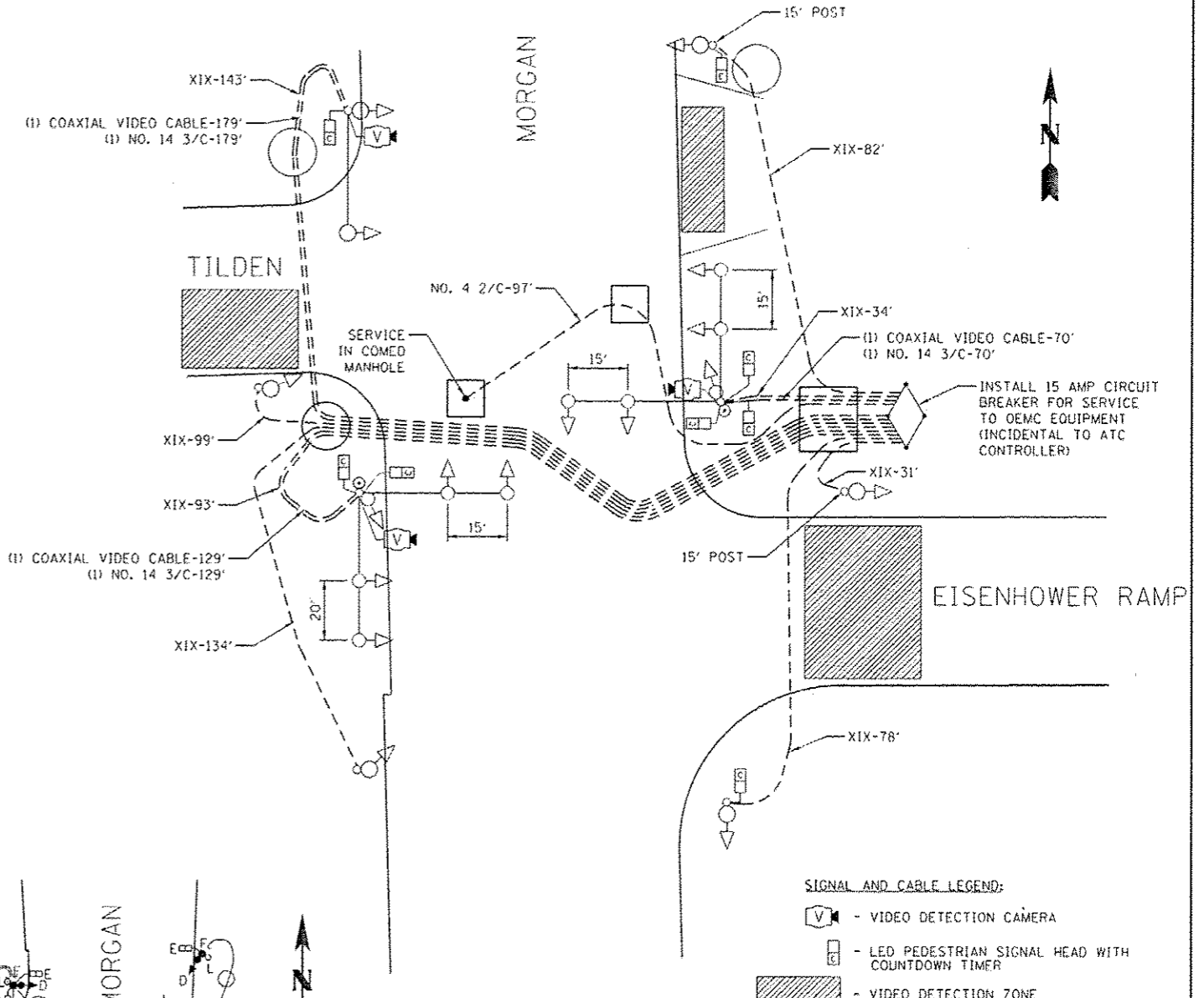
- CONTRACTOR MUST MAINTAIN ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL AT MORGAN ST. AND VAN BUREN ST. (DWG. #14738) DURING CONSTRUCTION THAT IS CURRENTLY BEING FED FROM THE TRAFFIC SIGNAL CONTROLLER AT THIS INTERSECTION.
- THIS INTERSECTION WILL BE PLACED UNDER ALL-WAY STOP SIGN CONTROL FOR THE DURATION OF THE MORGAN STREET BRIDGE CONSTRUCTION. THE SIGNAL MUST REMAIN OPERATIONAL PRIOR TO THE CLOSURE OF THE MORGAN STREET BRIDGE AND/OR EISENHOWER OFF-RAMP TO TRAFFIC. THE SIGNAL MUST BE OPERATIONAL PRIOR TO THE REOPENING OF THE MORGAN STREET BRIDGE AND/OR EISENHOWER OFF-RAMP TO TRAFFIC.
- ALL CONDUITS PLACED UNDER PAVEMENT SHALL BE SCHEDULE 80
- SEE STREET LIGHT DRAWING NO. E-10 FOR EMBEDDED CONDUIT EXITING PARAPET WALL DETAILS

**REMOVAL LEGEND**

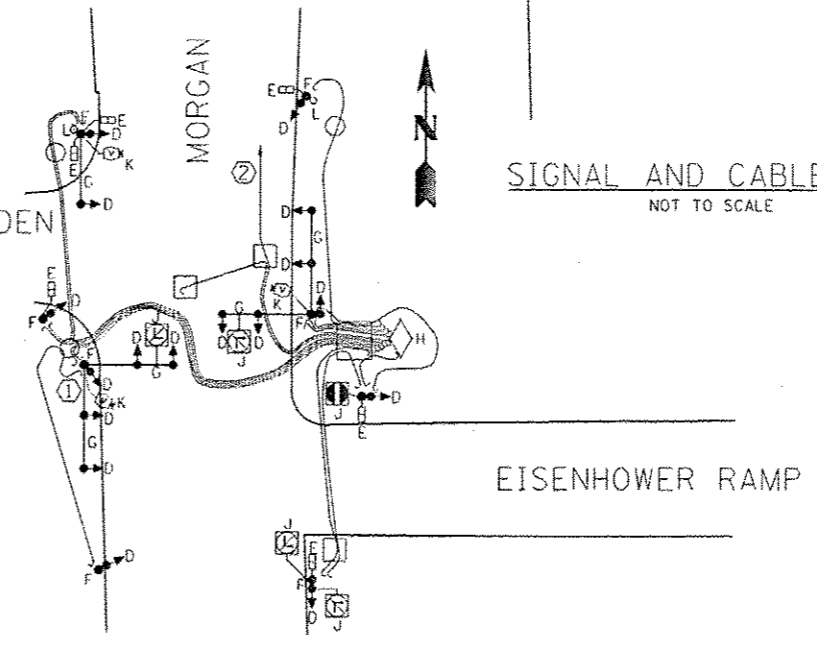
- A - BREAKDOWN FOUNDATION
- B - BREAKDOWN MANHOLE
- C - BREAKDOWN HANDHOLE
- D - REMOVE TRAFFIC SIGNAL
- E - REMOVE PEDESTRIAN SIGNAL
- F - REMOVE TRAFFIC SIGNAL POST OR POLE
- G - REMOVE TRAFFIC SIGNAL MAST ARM
- H - REMOVE TRAFFIC SIGNAL CONTROLLER
- J - REMOVE ILLUMINATED SIGN
- K - REMOVE VIDEO DETECTION CAMERA
- L - REMOVE PEDESTRIAN PUSHBUTTON
- CABLE TO BE REMOVED



**FOUNDATION REMOVAL PLAN**  
NOT TO SCALE



**SIGNAL AND CABLE PLAN**  
NOT TO SCALE



**SIGNAL AND CABLE REMOVAL PLAN**  
NOT TO SCALE

DATE	REVISION
SUPERSEDES DRAWING NO. 14737 DATED 3-28-07	
<b>TRAFFIC CONTROL SIGNALS MORGAN/EISENHOWER EXIT/TILDEN</b>	
CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN:	CHIEF DRAFTSMAN: ENGINEER:
SUPERVISING ENGINEER: ELEC. DESIGN ENGR.	G. GEDEMER
ENGINEER OF ELECTRICITY:	DWG. NO.
GEN'L SUPT. OF ELECTRICITY:	14737
DEPUTY COMMISSIONER:	
SIZE:	SCALE: AS NOTED DATE:

**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 1000  
Chicago, Illinois 60607

DESIGNED - GC  
DRAWN - PWF  
CHECKED - JW  
DATE - 6/17/2013

REVISED - 7/19/2013  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNALS  
MORGAN/EISENHOWER EXIT/TILDEN  
SCALE: AS NOTED SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	131
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



Benchmark: Cut square on northwest corner of sign foundation at north side of Harrison Street, approximately 80' west of west line of Morgan Street. Elevation 593.07.  
 Cut square on east wall of Morgan Street at approximately centerline of I-290, near north entrance to CTA. Elevation 600.63.

Existing Structure: S.N. 016-2113 was originally constructed in 1951 as a three-span structure carrying 4 lanes of traffic over I-290 Eisenhower Expressway and CTA (FA Route 13). Sections 1-B-2 and 1-F-2). Improvements were performed on the superstructure and substructure in 1990. The bridge has an overall length of approximately 213'-10" (back-to-back abutments; 67'-0" / 74'-10" / 67'-0" spans), an overall width of 60'-10" (out-to-out superstructure) and consists of a 6 1/2"-thick reinforced concrete deck with 2" overlay supported on ten (10) W33x220 steel I-beams. The substructure consists of reinforced concrete piers and abutments on timber piles. The bridge is oriented in the north-south direction with a skew of 4°41'00". This structure will be removed and replaced. Stage construction on the new bridge is required due to utility concerns; however, Morgan Street and the associated exit ramp will be closed to vehicular and pedestrian traffic during construction. Morgan Street traffic will be detoured via local roads during construction.  
 Salvage: No salvage.

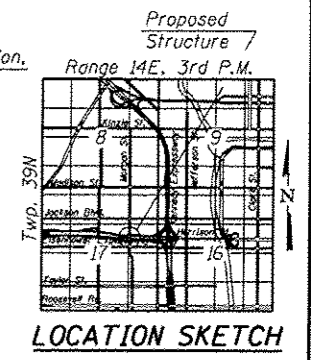
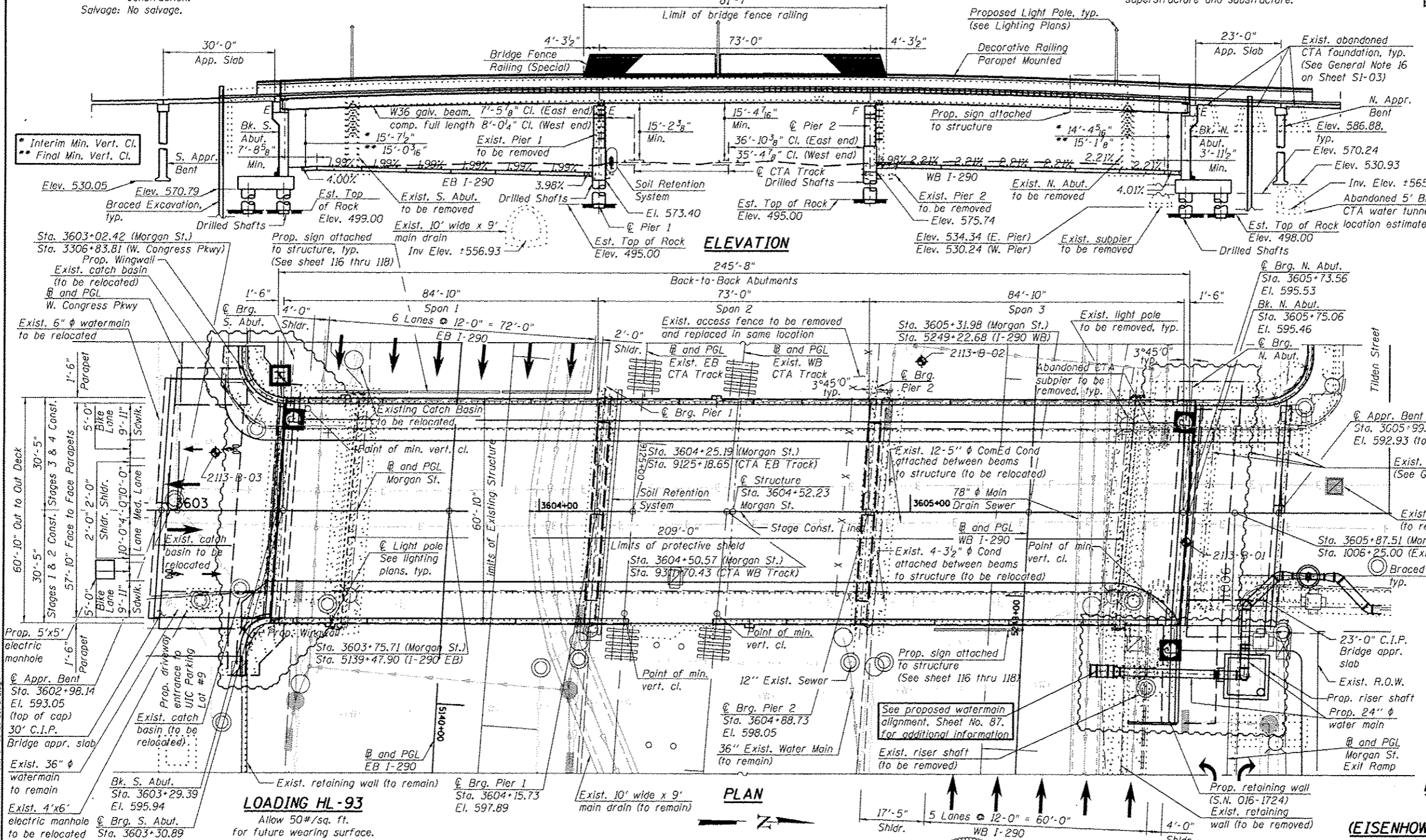
- NOTES:**
1. For Profile Grade Lines, Index of Sheets and Total Bill of Material, see Sheet S1-02.
  2. For General Notes, see Sheet S1-03.
  3. Stage construction lines are different for superstructure and substructure.

**APPROVED**  
 For Structural Adequacy Only  
*D. Carl Kuyper*  
 Engineer of Bridges & Structures

STA. 3604+52.23  
 BUILT 20-- BY  
 STATE OF ILLINOIS  
 FAI RT. 290 SEC. 2013-007R  
 LOADING HL-93  
 STRUCTURE NO. 016-1709

**NAME PLATE**  
 Locate Name Plate at the front face of parapet at the Southwest Corner.

- LEGEND:**
- Combined Sewer
  - Electric
  - Fiber Optic
  - Soil Boring
  - Storm Sewer
  - Water Line
  - Fire Hydrant
  - Light Pole



**GENERAL PLAN**  
**MORGAN ST. OVER**  
**F.A.I. RTE. 290**  
**(EISENHOWER EXPRESSWAY) AND CTA**  
**F.A.I. RTE. 290 - SECTION 2013-007R**

**COOK COUNTY**  
**STATION 3604+52.23**  
**STRUCTURE NO. 016-1709**

Signed *Moussa A. Issa*  
 Moussa A. Issa, HBM II, Lic. No. 081-005738  
 Expires 11-30-2014  
 Date **07/19/13** For Sheets S1-01 Thru S1-51  
 (Total of 53 Sheets)



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET S1-01 OF 51 SHEETS	STA.	TO STA.
GENERAL PLAN AND ELEVATION STRUCTURE NO. 016-1709			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90/94/290	2013-007R	COOK	317 145
CONTRACT NO. 60W25			
ILLINOIS FED. AID PROJECT			

**LOADING HL-93**  
 Allow 50#/sq. ft.  
 for future wearing surface.

**DESIGN STRESSES**  
**FIELD UNITS**  
 $f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)  
 $f_y = 36,000$  psi (M270 Grade 36)

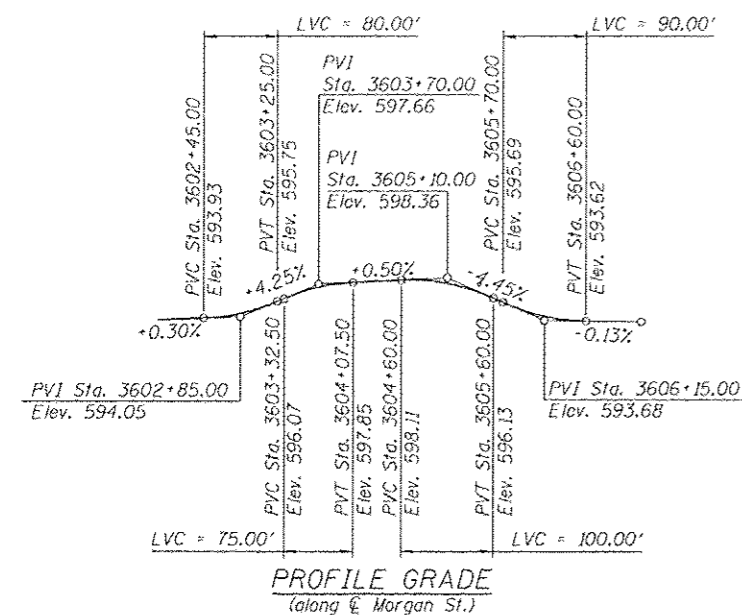
**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.086g  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.144g  
 Soil Site Class = D  
 Entire sheet revised

**DESIGN SPECIFICATIONS**  
 2012 AASHTO LRFD Bridge  
 Design Specifications, 6th Edition

**HBM**  
 ENGINEERING GROUP, LLC  
 CIVIL, TRAC & DESIGN  
 INSPECTION & TESTING  
 RESEARCH & TESTING

161789-60W25-S01-GPE.dgn  
 USER NAME: willardouss  
 PLOT SCALE: 28x0 1/4" = 1' = 1/4"  
 PLOT DATE: 7/22/2013

DESIGNED - MI, JJS	REVISIONS	DATE
DRAWN - JJS, WM, LAB	07/19/2013 MI, MAF	
CHECKED - MAI, MI, LAB		
DATE - 6/17/2013		

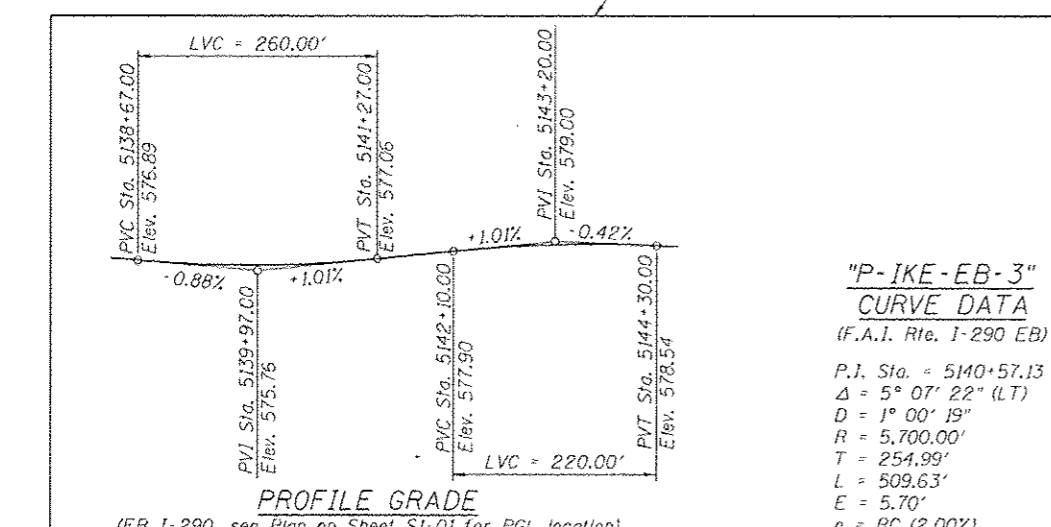


**INDEX OF SHEETS**

- SI-01 General Plan and Elevation
- SI-02 Index of Sheets, PGLs and Total Bill of Material
- SI-03 General Notes
- SI-04 Stages 1 and 2 Construction
- SI-04A Stages 3 and 4 Construction
- SI-05 Substructure Layout
- SI-06 Existing Structure Removal Plan and Elevation
- SI-07 Existing Structure Removal Details 1 of 2
- SI-08 Existing Structure Removal Details 2 of 2
- SI-09 Temporary Concrete Barrier
- SI-10 Top of Slab Elevation Locations
- SI-11 Top of Slab Elevations (Sheet 1 of 3)
- SI-12 Top of Slab Elevations (Sheet 2 of 3)
- SI-13 Top of Slab Elevations (Sheet 3 of 3)
- SI-14 Top of South Approach Slab Elevations
- SI-15 Top of North Approach Slab Elevations
- SI-16 Deck Plan and Cross Section
- SI-17 Parapet Elevations and Details
- SI-18 Deck Cross Sections, Details and Bill of Material
- SI-19 Preformed Joint Strip Seal
- SI-20 Decorative Railing Parapet Mounted Details
- SI-21 Bridge Fence Railing (Special) Elevations
- SI-21A Bridge Fence Railing (Special) Details
- SI-22 Framing Plan and Beam Elevation
- SI-23 Girder Moment and Reaction Tables
- SI-24 Structural Steel Details
- SI-25 Elastomeric Bearing Type I and Fixed Bearing
- SI-26 Elastomeric Bearing Type II
- SI-27 South Abutment Plan and Elevation
- SI-28 South Abutment Footing Plan and Sections
- SI-29 South Abutment Sections and Details
- SI-30 South Abutment Wingwalls
- SI-31 South Abutment Architectural Details
- SI-32 North Abutment Plan and Elevation
- SI-33 North Abutment Footing Plan and Sections
- SI-34 North Abutment Sections and Details
- SI-35 North Abutment Wingwalls
- SI-36 North Abutment Architectural Details
- SI-37 Pier 1 Plan and Elevation
- SI-38 Pier 1 Sections and Details
- SI-39 Pier 1 Architectural Details
- SI-40 Pier 2 Plan and Elevation
- SI-41 Pier 2 Sections and Details
- SI-42 Pier 2 Architectural Details
- SI-43 South Approach Slab Plan
- SI-44 South Approach Slab Sections and Details
- SI-45 North Approach Slab Plan
- SI-46 North Approach Slab Sections and Details
- SI-47 South and North Approach Pile Bent Support
- SI-48 Bar Splicer Assembly and Mechanical Splicer Details
- SI-49 Boring Logs I
- SI-50 Boring Logs II
- SI-51 Boring Logs III

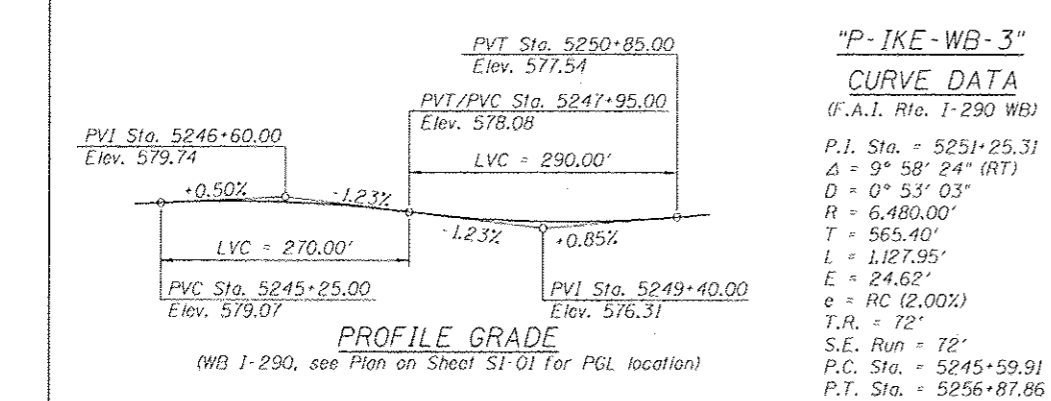
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER.	SUB.	TOTAL QUANTITY
Removal of Existing Structures No. 1	EACH	1	-	1
Protective Shield	SQ YD	1,439	-	1,439
Structure Excavation	CU YD	-	144	144
Concrete Structures	CU YD	-	853.7	853.7
Concrete Superstructure	CU YD	766.5	-	766.5
Bridge Deck Grooving	SQ YD	1,287	-	1,287
Form Liner Textured Surface	SQ FT	-	1,732	1,732
Protective Coat	SQ YD	2,237	-	2,237
Furnishing and Erecting Structural Steel	L. SUM	1	-	1
Stud Shear Connectors	EACH	10,044	-	10,044
Reinforcement Bars	POUND	-	351,016	351,016
Reinforcement Bars, Epoxy Coated	POUND	167,950	194,480	362,430
Bar Splicers	EACH	789	242	1,031
Name Plates	EACH	1	-	1
Permanent Casing	FOOT	-	5,113	5,113
Drilled Shaft in Soil	CU YD	-	1,470	1,470
Drilled Shaft in Rock	CU YD	-	42	42
Preformed Joint Strip Seal	FOOT	124	-	124
Elastomeric Bearing Assembly, Type I	EACH	24	-	24
Elastomeric Bearing Assembly, Type II	EACH	12	-	12
Anchor Bolts, 1"	EACH	72	-	72
Anchor Bolts, 1/2"	EACH	24	-	24
Concrete Sealer	SQ FT	-	8,728	8,728
Geocomposite Wall Drain	SQ YD	-	391	391
Pile Extraction	EACH	-	27	27
Decorative Railing Parapet Mounted	FOOT	639	-	639
Braced Excavation	CU YD	-	2,906	2,906
Bridge Fence Railing (Special)	FOOT	140	-	140
Granular Backfill for Structures	CU YD	-	608	608
Pipe Underdrains For Structures 6"	FOOT	-	203	203



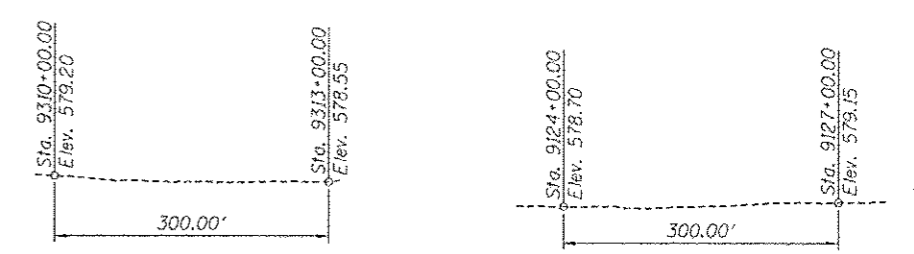
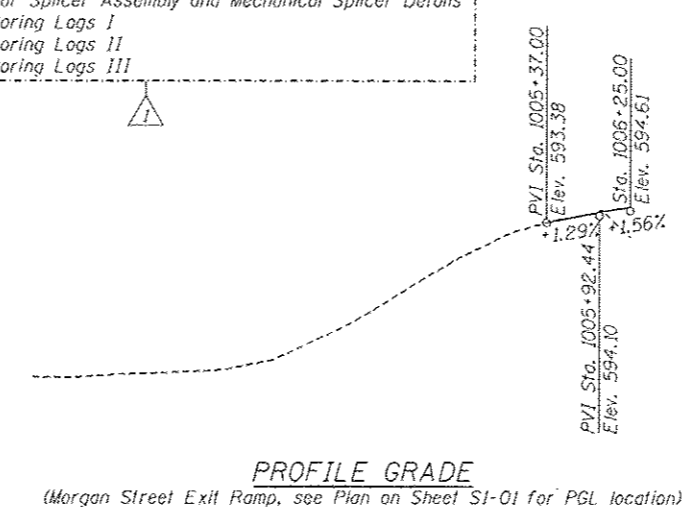
**"P-IKE-EB-3"**  
**CURVE DATA**  
(F.A.I. Rte. I-290 EB)

P.I. Sta. = 5140+57.13  
 $\Delta = 5^\circ 07' 22''$  (LT)  
 $D = 1^\circ 00' 19''$   
 $R = 5,700.00'$   
 $T = 254.99'$   
 $L = 509.63'$   
 $E = 5.70'$   
 $e = RC(2.00\%)$   
 $T.R. = 96'$   
 $S.E. Run = 96'$   
 $P.C. Sta. = 5138+02.14$   
 $P.T. Sta. = 5143+11.78$



**"P-IKE-WB-3"**  
**CURVE DATA**  
(F.A.I. Rte. I-290 WB)

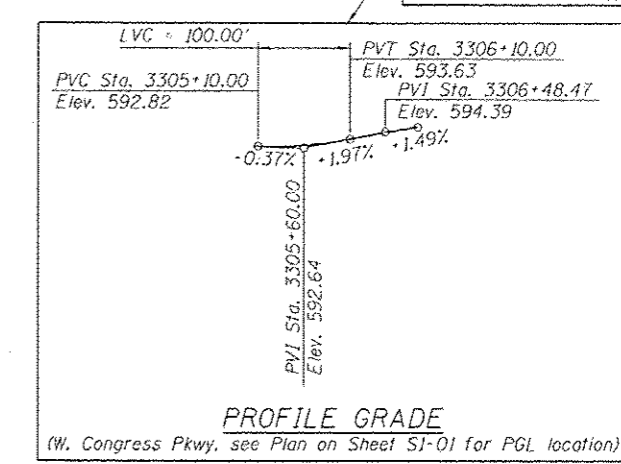
P.I. Sta. = 5251+25.31  
 $\Delta = 9^\circ 58' 24''$  (RT)  
 $D = 0^\circ 53' 03''$   
 $R = 6,480.00'$   
 $T = 565.40'$   
 $L = 1,127.95'$   
 $E = 24.62'$   
 $e = RC(2.00\%)$   
 $T.R. = 72'$   
 $S.E. Run = 72'$   
 $P.C. Sta. = 5245+59.91$   
 $P.T. Sta. = 5256+87.86$



**PROFILE GRADE**  
(EB CTA Track, along E Track)

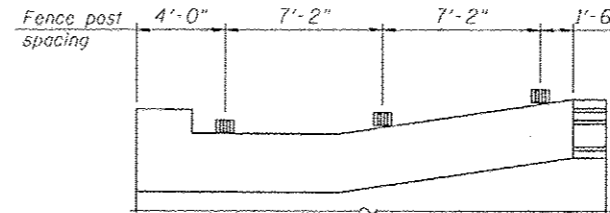
Sta. 9124+00.00 Elev. 578.70  
 Sta. 9127+00.00 Elev. 579.15

300.00'

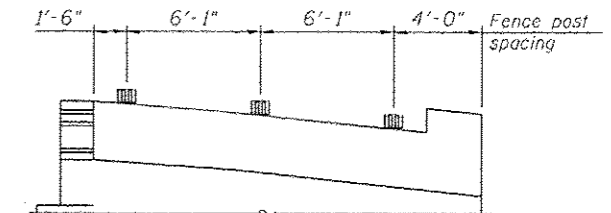


**GENERAL NOTES:**

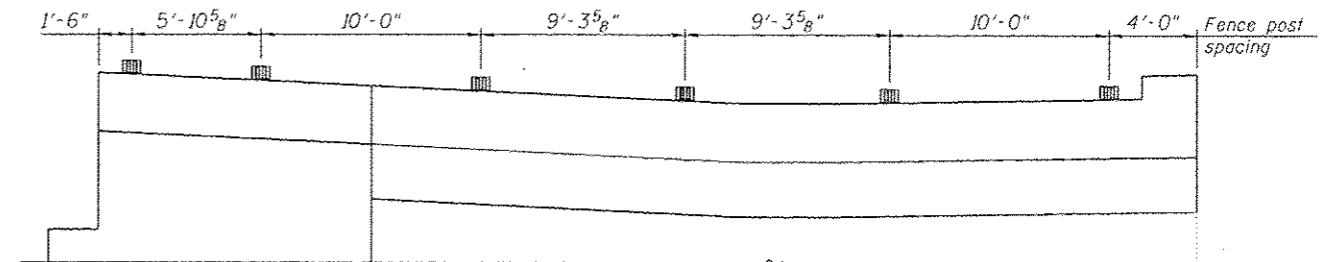
- Fasteners shall be AASHTO M164 Type 1, hot dip galvanized bolts. Bolts  $\frac{7}{8}$  in.  $\phi$ , holes  $\frac{9}{16}$  in.  $\phi$ , unless otherwise noted.
- Calculated weight of structural steel = 571,060 lbs. M270 Grade 50.  
Calculated weight of structural steel = 38,860 lbs. M270 Grade 36.
- All structural steel shall be hot dip galvanized. Cost included with Furnishing & Erecting Structural Steel. See Special Provisions for Hot Dip Galvanizing of Structural Steel.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precaution to deal with the presence of lead on this project.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  in. Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- Concrete Sealer shall be applied to the designated areas of the Piers, Abutments and Wingwalls.
- For Conduit Attached to Structure quantities and details, see Electrical Plans.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building foundations.
- Driving piles and temporary sheet piling is not allowed.
- For light pole support system, see Sheet S1-18 and Electrical and ITS Plans.
- Existing CTA subpier and foundation were most likely removed or partially removed when existing abutments and approach slab were constructed. Any existing foundation that is within the proposed excavation for the new bridge structure construction shall be included with FOUNDATION REMOVAL. See Special Provisions.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, structure excavation, drilling shafts and other loads applied to the pier 1 will not have detrimental effects on the 10'x9' main drain. Any damage to the main drain during construction shall be repaired by the Contractor at his expense and no charge to the Department.
- Abandoned 5' Brick CTA Water Tunnel must be filled prior to the start of North Approach Bent construction. The tunnel must be filled so that north approach bent drilled shafts construction will not be impacted by tunnel. A number of the north approach bent drilled shafts will be placed through this tunnel. Drilling operations must account for the presence of debris, brick material, CLSM and bedding material in addition to soil and other expected materials to be encountered.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, structure excavation, drilling shafts and other loads applied to the North Approach Bent and slab will not have detrimental effects on the existing 36"  $\phi$  watermain at the southeast corner of the North Approach Slab. Any damage to the watermain during construction shall be repaired by the Contractor at his expense and no charge to the Department.
- For proposed watermain alignment, see Sheet No. 87.
- Slipforming of parapets is not allowed.
- For the City of Chicago conduits attached to structure and embedded in structure quantities and details, see Civil and Electrical plans.



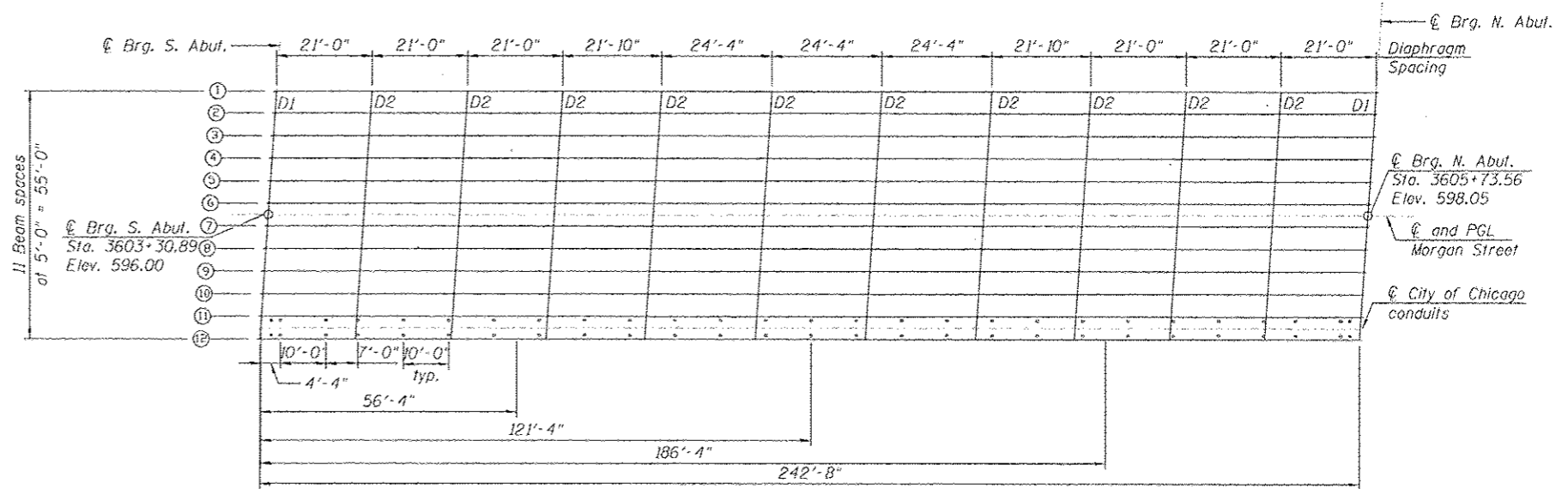
**WEST WINGWALL PARAPET RAILING  
SPACING AT SOUTH ABUTMENT**  
(Looking at Inside Face of Parapet)



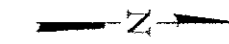
**EAST WINGWALL PARAPET RAILING  
SPACING AT SOUTH ABUTMENT**  
(Looking at Inside Face of Parapet)



**WEST WINGWALL PARAPET RAILING  
SPACING AT NORTH ABUTMENT**  
(Looking at Inside Face of Parapet)

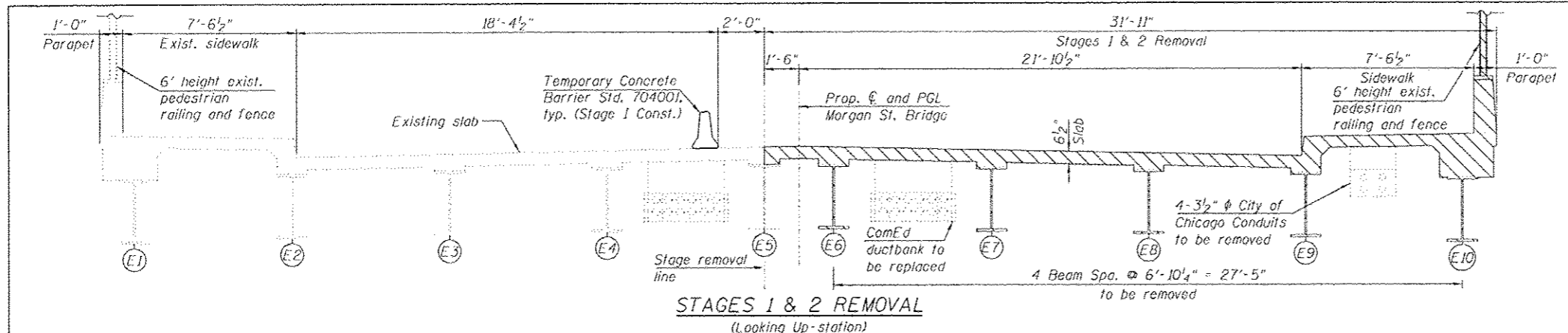


**SUPPORT HANGER**  
(For 4'-4"  $\phi$  City of Chicago Conduits)  
(See General Note 22)

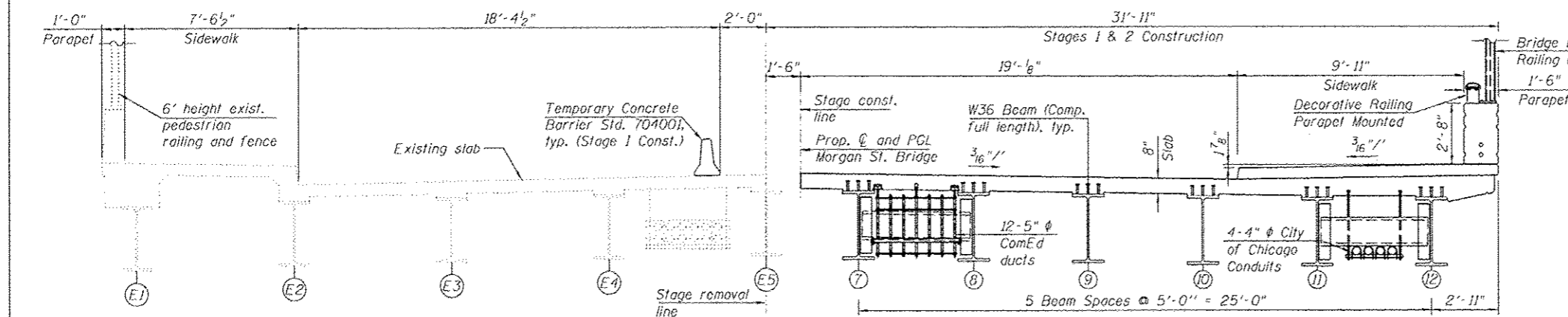


Entire sheet revised

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN CORPORATION & P.L.L.C. RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60122 PHONE: (708) 236-0900 FAX: (708) 236-0901	20161709-69w25-503-Gen-Note.dwg USER NAME = will.mardaus PLOT SCALE = 0.25/0.000 1/4" in. PLOT DATE = 7/15/2013	DESIGNER - MI, MAI DRAWN - JJS, LAB CHECKED - MAI, MI, JJS DATE - 6/11/2013	REVISED - 07/19/2013 MI, MAI REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES STRUCTURE NO. 016-1709 SCALE: SHEET S1-03 OF 51 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 147 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
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**STAGES 1 & 2 REMOVAL**  
(Looking Up-station)



**STAGES 1 & 2 CONSTRUCTION**  
(Looking Up-station)

**STAGE 2 REMOVAL:**

1. IDOT Contractor to:  
1. Remove east half of existing bridge Piers 1 and 2 within limits of Stage 2 Removal. See limits of Pier 1 footing removal on Sheet S1-07.

**STAGE 2 CONSTRUCTION:**

- The following construction items will be performed within the limits of Stage 2 Construction:  
ComEd Contractor to:  
1. Manipulate the conduits/cables to allow for the Piers 1 and 2 drilled shafts drilling.

- IDOT Contractor to:  
1. Drill and pour drilled shafts for Piers 1 and 2 within limits of Stage 2 Construction as shown in footing layout.  
2. Construct Piers 1 and 2 within limits of Stage 2 Construction.  
3. Erect Beams 7 thru 12 and related steel diaphragms.

- ComEd Contractor to:  
1. Support east box of ducts on wood lagging per IDOT Specifications (Protective Shield) between new steel W36 bridge beams and protect top of wood box from deck placement with wood lagging per IDOT Specifications (Protective Shield).

- IDOT Contractor to:  
1. Remove Temporary ComEd Support Beam installed in Stage 1 Construction.

2. Install deck forms and reinforcement and place inserts (hangers) in deck for utility support.

3. Construct reinforced concrete deck with sidewalk, parapet, light poles, decorative railing parapet mounted and bridge fence railing.

4. Install City of Chicago conduits.

5. Perform bridge deck grooving for the bridge deck.

6. Apply protective coat for the bridge deck and top and inside faces of sidewalk and parapets.

7. Install proposed overhead bridge mounted sign on Morgan Street Bridge over WB I-290.

8. Construct the east half of the North and South bridge approach pavement within limits of Stage 2 Construction.

- ComEd Contractor to:  
1. Place new ducts on conduits and support ducts with IDOT/ComEd approved duct support system from deck inserts.

- Before IDOT construction commences:  
ComEd Contractor to:  
i. Remove existing duct support system from existing bridge deck.  
ii. Remove existing asbestos insulation (including asbestos from City of Chicago facilities on bridge and approaches)  
iii. Remove existing conduits and enclose existing cables in wooden box.  
iv. Support box of ducts on wood lagging per IDOT Specifications (Protective Shield) between existing steel W33 bridge beams.

**STAGE 1 REMOVAL:**

- IDOT Contractor to:  
1. Install temporary concrete barrier as shown to locate construction work area on the east side of the existing structure.  
2. Provide sidewalk closures at both North and South sides of the Morgan Street Bridge.  
3. Provide barricades and advance street level signs on sidewalks for the closure of the Morgan Street CTA station.  
4. Remove existing bridge approach slab, approach bent caps, approach pavement and sidewalks within limits of Stage 1 Removal.  
5. Remove/relocate existing utilities interfering with the braced excavation and new abutments and wingwalls construction. See Roadway Plans for details.  
6. Install Braced Excavation Systems for the existing water main, riser shaft and portion of Panel 1 of Retaining Wall 5 removal and for the reconstruction of the new water main, riser shaft and portion of Panel 1 of Retaining Wall 5.  
7. Install Braced Excavation Systems for the construction of the abutments, wingwalls and portion of Panel 1 of Retaining Wall 5 outside riser shaft braced excavation.

**STAGE 1 REMOVAL CONTINUED:**

- IDOT Contractor to:  
8. Remove existing water main, riser shaft and panel 1 of Retaining Wall 5.  
9. Remove existing east half of concrete bridge deck within limits of Stage 1 Removal.  
10. Remove the backwalls of the existing South and North Abutments within limits of Stage 1 Removal. Existing abutment stem to remain in place and to be removed in Stage 4 Removal.  
11. Install temporary Shoring Tower and east W36 temporary Support Beams per HBK plans. ComEd Contractor provides and installs W24 temporary support beams and all wooden box supports of ducts and associated cables on W36 support beam to be furnished by ComEd and installed by IDOT Contractor.  
12. Remove existing W33 steel beams E6 thru E10 and diaphragms after ComEd ties up the ducts to the steel support beams per HBK plans.

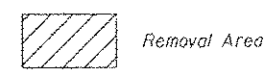
**STAGE 1 CONSTRUCTION:**

- The following construction items will be performed within the limits of Stage 1 Construction:  
ComEd Contractor to:  
1. Manipulate the conduits/cables to allow for the North and South Abutments drilled shafts drilling.  
2. Tie up ComEd ducts in approach area and on east side of bridge with steel support beam per HBK plans.  
IDOT Contractor to:  
1. Drill and pour drilled shafts for abutments and approach bents as shown in footing layout.  
2. Drill and pour drilled shafts approach bents within limits of Stage 1 Construction as shown in footing layout.  
3. Construct abutments and wingwalls.  
4. Construct approach bents within limits of Stage 1 Construction.  
5. Construct new water main connection pipes and riser shaft.  
6. Construct Panel 1 of Retaining Wall 5 (SN 016-1724) as shown in Sheets S2-01 thru S2-12.  
7. Backfill the remaining braced excavation for the abutments, wingwalls, riser shaft and retaining wall.

**NOTE:**

1. For Notes, See Sheet S1-04A.

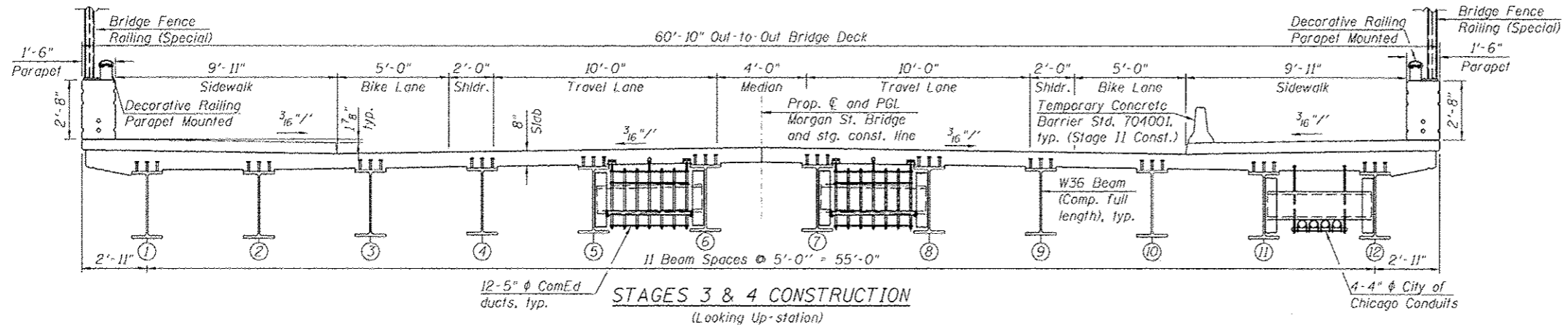
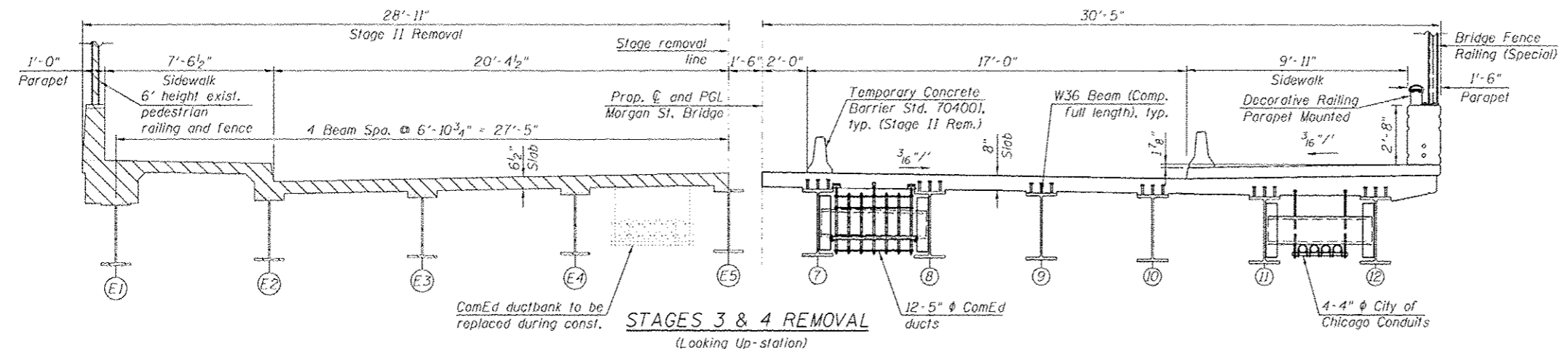
**LEGEND**



FILE PATH: C:\Users\m1\OneDrive\Documents\Drawings\Permits For The Day\0161709-60W25-S04A-SugConstr.dwg

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161709-60W25-S04A-SugConstr.dwg USER NAME: m11merdusa PLOT SCALE: 3/8"=1'-0" PLOT DATE: 7/15/2013	DESIGNED - MI, WM DRAWN - WM CHECKED - MAJ, MI DATE - 6/17/2013	REVISED - G7/19/2013 MI, MAJ REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STAGES 1 AND 2 CONSTRUCTION</b> <b>STRUCTURE NO. 016-1709</b>			F.A.I. R.T.E. 90/94/290	SECTION 2013-00TR	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 148
	SCALE: SHEET S1-04 OF 51 SHEETS STA. TO STA.					ILLINOIS FED. AID PROJECT CONTRACT NO. 60W25						





**NOTES:**

1. For ComEd conduits removal and replacement details, quantities and specifications, see ComEd Plans prepared by HBK and Condux International, Inc.
2. IDOT Contractor to demolish existing beams utilizing a maximum of 15 minute full stops during the allowable hours listed in "Keeping the Expressway Open to Traffic" Special Provision.
3. The demolition and reconstruction of superstructure shall be coordinated with the CTA. CTA track access is allowed during off-peak hours only. All CTA track access shall be coordinated and performed in accordance with the discretion of the CTA. Refer to "CTA Flagging and Coordination" Special Provision.
4. For superstructure and substructure removal details, See Sheets S1-06 thru S1-08.
5. Locate Existing Abandoned 5' Brick CTA water tunnel, bulkhead tunnel prior to riser shaft excavation and North Approach Bent drilled shafts drilling.

**STAGE 3 REMOVAL:**

- IDOT Contractor to:
1. Install temporary concrete barrier as shown to locate construction work area on the east half of the bridge.
  2. Remove existing bridge approach slab, approach bent caps, approach pavement and sidewalk within limits of Stage 3 Removal.
  3. Remove/relocate existing utilities interfering with the approach slabs and approach bents within limits of Stages 3 and 4. See Roadway Plans for details.
  4. Coordinate with ComEd contractor removing and replacing existing ComEd ductbank on the west half of the bridge.
  5. Remove existing west half of concrete bridge deck within limits of Stage 3 Removal.
  6. Remove the backwalls of the existing South and North Abutments within limits of Stage 3 Removal.
  7. Install west temporary support beam per HBK plans. ComEd support beam to be furnished by ComEd.
  8. After ComEd ties up the ducts to the steel support beam per HBK plans, remove existing W33 steel beams E1 thru E5 and diaphragms.
  9. Remove west half of existing bridge Piers 1 and 2 within limits of Stage 3 Removal. See limits of Pier 1 removal on Sheet S1-07.

**STAGE 3 CONSTRUCTION:**

- ComEd Contractor to:
1. Manipulate the conduits/cables to allow for the Piers 1 and 2 within the limits of Stage 3 Construction drilled shafts drilling.
  2. Tie up ComEd ducts on west side of the bridge with steel support beam per HBK plans.
- IDOT Contractor to:
1. Drill and pour remaining drilled shafts for approach bents.
  2. Construct approach bents within limits of Stage 3 Construction.
  3. Drill and pour remaining drilled shafts for Piers 1 and 2.
  4. Construct Piers 1 and 2 within limits of Stage 3 Construction.
  5. Erect Beams 1 thru 6 and related steel diaphragms.
- ComEd Contractor to:
1. Support west wood box of ducts on wood lagging per IDOT Specifications (Protective Shield) between new steel W36 bridge beams and protect top of wood box from deck placement with wood lagging per IDOT Specifications (Protective Shield).
- IDOT Contractor to:
1. Remove Temporary ComEd Support Beam installed in Stage 3 Construction.
  2. Install deck forms and reinforcement and place inserts (hangers) in deck for utility support.
  3. Construct reinforced concrete deck with sidewalk, parapet, light poles, decorative railing parapet mounted and bridge fence railing.

**STAGE 3 CONSTRUCTION CONTINUED:**

- IDOT Contractor to:
4. Perform bridge deck grooving for the bridge deck.
  5. Apply protective coat for the bridge deck and top and inside faces of sidewalk and parapets.
  6. Install proposed overhead bridge mounted signs on Morgan Street Bridge over EB I-290.
  7. Construct the east half of the North and South bridge approach pavement within limits of Stage 3 Construction.
- ComEd Contractor to:
1. Place new ducts on conduits and support ducts with IDOT/ComEd approved duct support system from deck inserts.

**STAGE 4 CONSTRUCTION:**

- IDOT Contractor to:
1. Construct the outside shoulders along WB and EB I-290.
  2. Install Concrete Barrier, Single Face, 42 inch Height along the outside shoulder of EB I-290.
  3. Install all associated lighting, underpass lighting and ITS as specified in the plans.
  4. Install final striping per pavement marking and signing plans.



Added sheet


<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	B61789-60W25-SB4B-StgConst.dgn USER NAME = will.marcobuss PLOT SCALE = 3/8"=1'-0" PLOT DATE = 7/15/2013	DESIGNED - MI, WM DRAWN - WHI CHECKED - MAI, MI DATE - 6/17/2013	REVISED - 07/19/2013 MI, MAS REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STAGES 3 AND 4 CONSTRUCTION</b> <b>STRUCTURE NO. 016-1709</b>	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COON TOTAL SHEETS 317 SHEET 148A CONTRACT NO. 60W25	SCALE: SHEET S1-04A OF 51 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT
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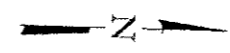
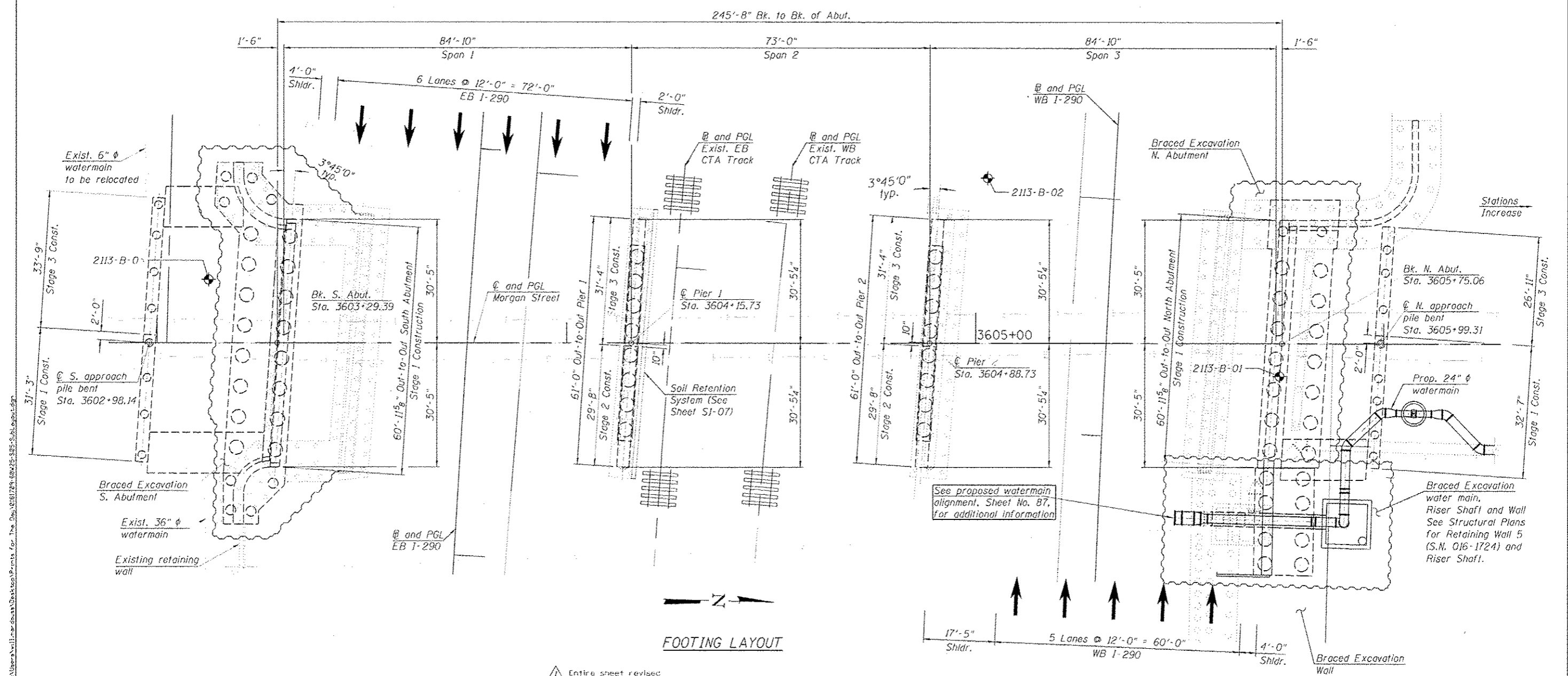


**NOTES:**

1. The north and south abutments shall not be staged.
2. The piers and approach bents shall be staged.

**LEGEND:**

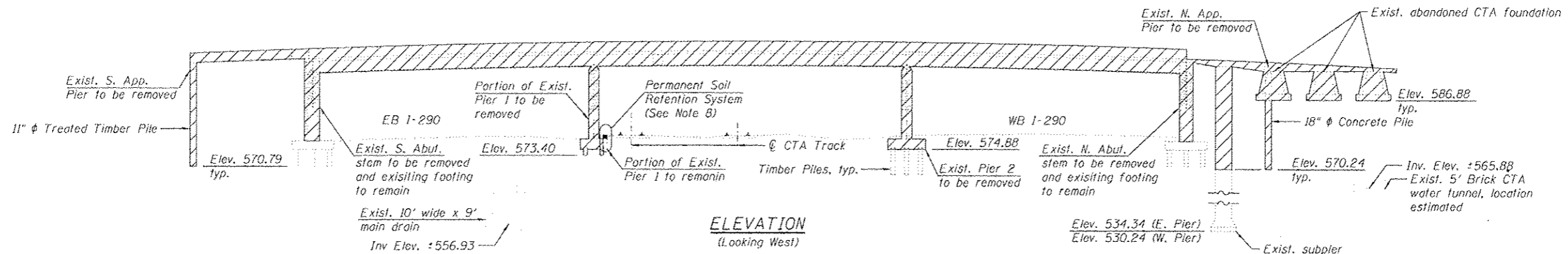
Soil Boring 



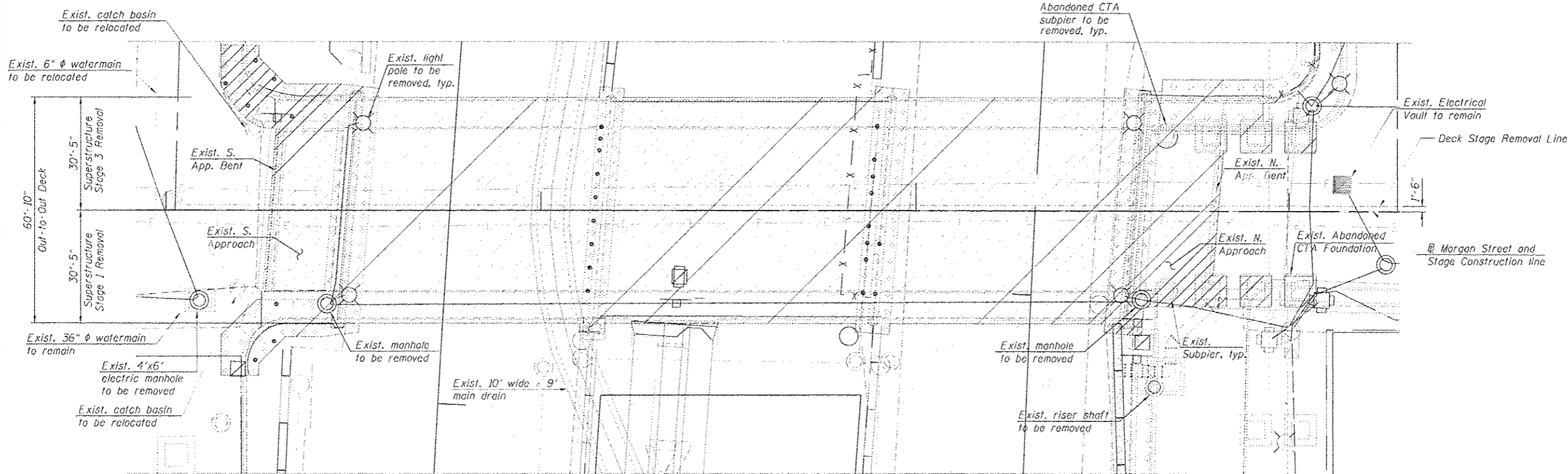
**FOOTING LAYOUT**

FILE PATH: C:\Users\m11\OneDrive\Desktop\Prints for The Dept\1709-50W20-585-Sub\Layout.dgn

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60152 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161709-50W20-585-Sub\Layout.dgn USER NAME = m11.mardians PLOT SCALE = 1/2" = 1' / in. PLOT DATE = 7/15/2013	DESIGNED - ML, JJS DRAWN - JJS, WM CHECKED - MAL, ML, MAF DATE - 6/17/2013	REVISIONS 1. 07/17/2013 ML, MAF 2. 07/17/2013 ML, MAF 3. 07/17/2013 ML, MAF 4. 07/17/2013 ML, MAF 5. 07/17/2013 ML, MAF	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE LAYOUT STRUCTURE NO. 016-1709	SCALE: SHEET 51-05 OF 51 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-00TR COUNTY COOK TOTAL SHEETS 317 SHEET NO. 149 CONTRACT NO. 60W25	ILLINOIS FEB. AID PROJECT
	Entire sheet revised							
	<b>FOOTING LAYOUT</b>							
	See proposed watermain alignment, Sheet No. 87, for additional information							
	Braced Excavation water main, Riser Shaft and Wall See Structural Plans for Retaining Wall 5 (S.N. 016-1724) and Riser Shaft.							



ELEVATION  
(Looking West)



PLAN

**NOTES:**

- Dimensions shown have been taken from historical design drawing and may not represent "as built" conditions. The Contractor must verify all dimensions in the field. Variation in the field dimensions shall not warrant additional compensation for Removal of Existing Structures No. 1 or Foundation Removal. See Special Provisions.
- Existing abandoned CTA subpier and foundations were most likely removed or partially removed when existing approach slab was constructed. Any existing foundation that is within the proposed excavation for the new bridge structure construction shall be included with Foundation Removal. See Special Provisions.
- Stage Construction lines are different for superstructure and substructure elements.
- Any damages to the CTA tracks by the Contractor during construction shall be their responsibility. Cost of any repair required due to these damages shall be paid by the Contractor.
- For substructure removal details, see sheets SI-07 & SI-08.
- The Contractor is responsible to protect the tracks during removal of the superstructure and substructure elements falling objects and debris.
- For existing approach slabs removal quantities, see Roadway plans.
- For removal sequence of superstructure and substructure elements, see Sheets SI-04 & SI-04A.
- For soil retention system at Pier 1, see Sheet SI-07.
- The Contractor is responsible to protect the existing timber piles to remain during removal of the existing footings at the southeast and southwest wingwalls. These piles are utilized in the design to be part of the footing supporting system. The top of the piles shall be saw-cut and minimum of 1' embedment into the new footing shall remain. Cost included with Removal of Existing Structures No. 1.
- The Contractor is responsible to protect the existing 18"  $\phi$  concrete piles to remain during removal of the existing footings at the northwest wingwall. These piles are utilized in the design to be part of the footing supporting system. Remove the existing pile concrete with care up to the bottom of the new footing (Elev. 570.24) to avoid damage to the pile reinforcement. Cost included with Removal of Existing Structures No. 1.
- Existing pile reinforcement to remain shall be cleaned and incorporated into the new construction. Cost included with Removal of Existing Structures No. 1.
- Existing utilities in conflict with new construction shall be abandoned or relocated according to directions given on the Roadway Plans.

**LEGEND:**

- Removal Area
- Pile Extraction

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Protective Shield	Sq Yd	1,439
Pile Extraction	Each	27

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INSPECTION & TESTING  
RESEARCH & TESTING

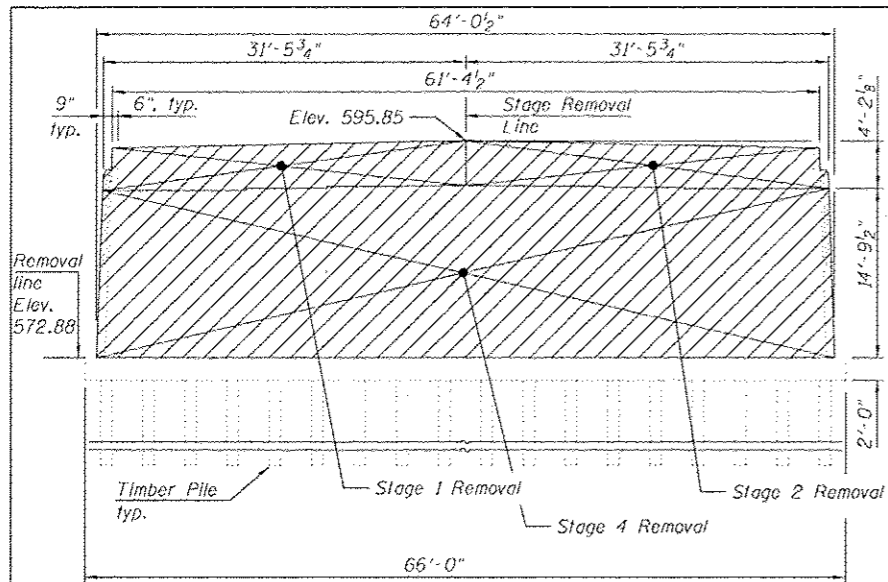
4415 WEST HARRISON ST.  
SUITE 231  
MILL SPRING, IL 60167  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

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DRAWN - JUS, JMG  
CHECKED - MAI, MI, MAF  
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REVISOR -

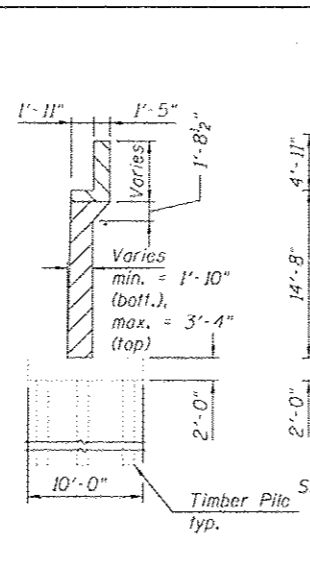
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL PLAN AND ELEVATION  
STRUCTURE NO. 016-1709

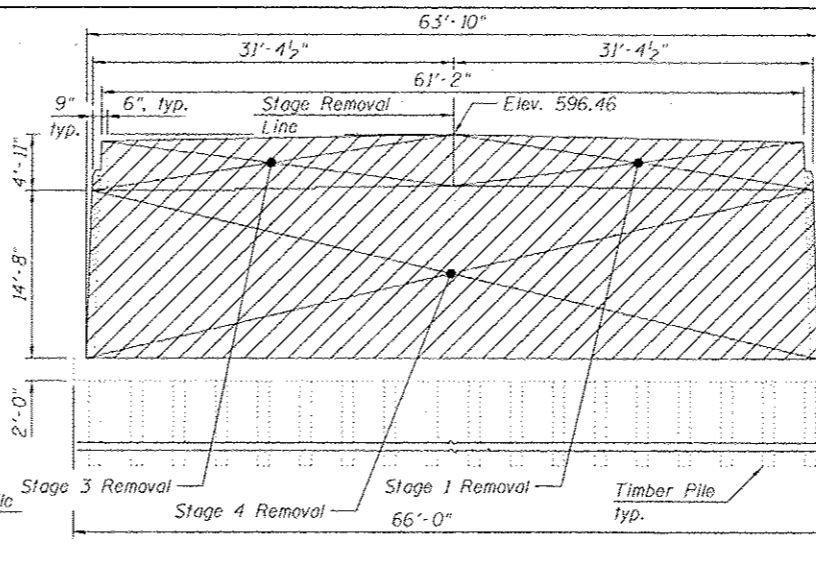
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SCALE: SHEET SI-06 OF 51 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT CONTRACT NO. 60W25



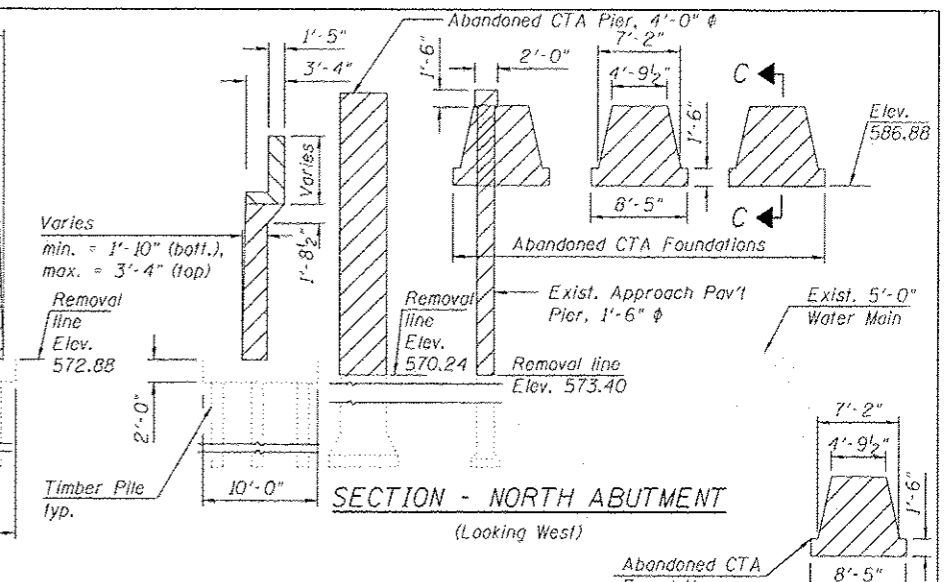
**ELEVATION - SOUTH ABUTMENT REMOVAL**  
(Looking South)



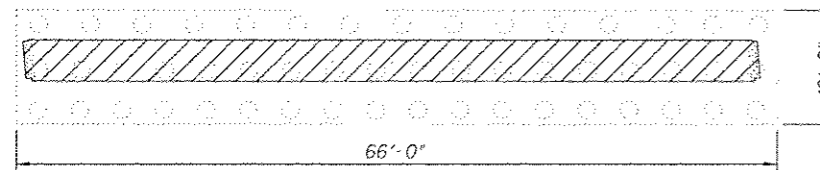
**SECTION - SOUTH ABUTMENT**  
(Looking East)



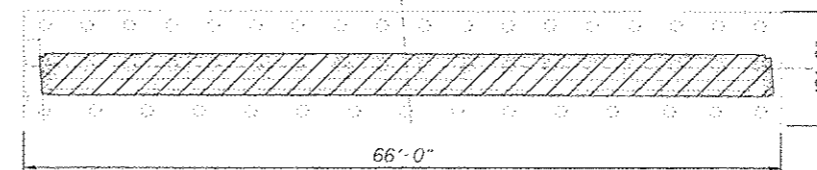
**ELEVATION - NORTH ABUTMENT REMOVAL**  
(Looking North)



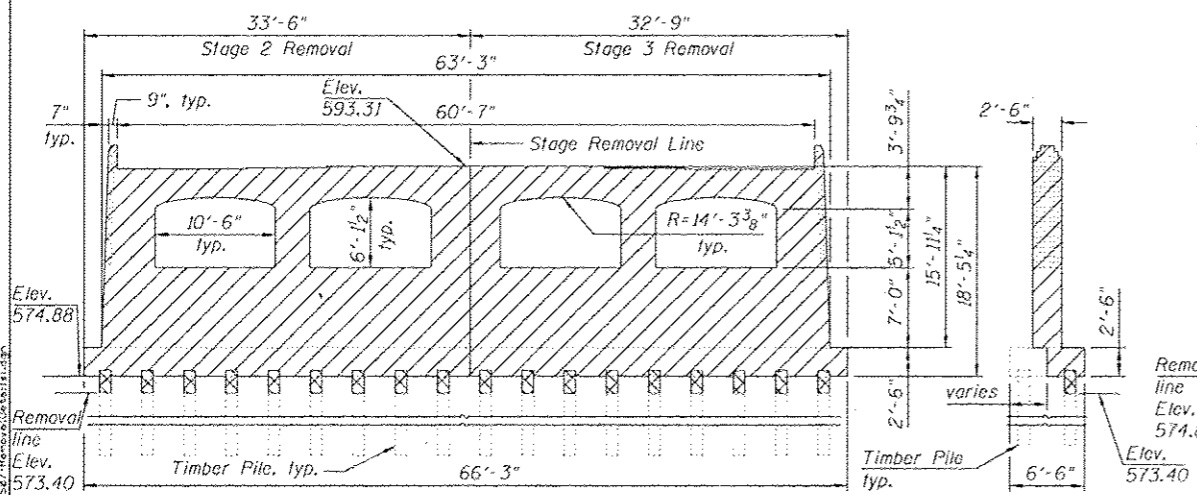
**SECTION - NORTH ABUTMENT**  
(Looking West)



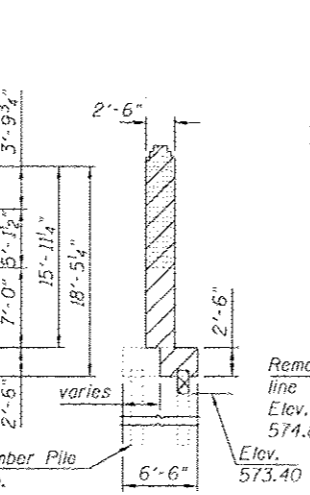
**FOOTING PLAN - SOUTH ABUTMENT**



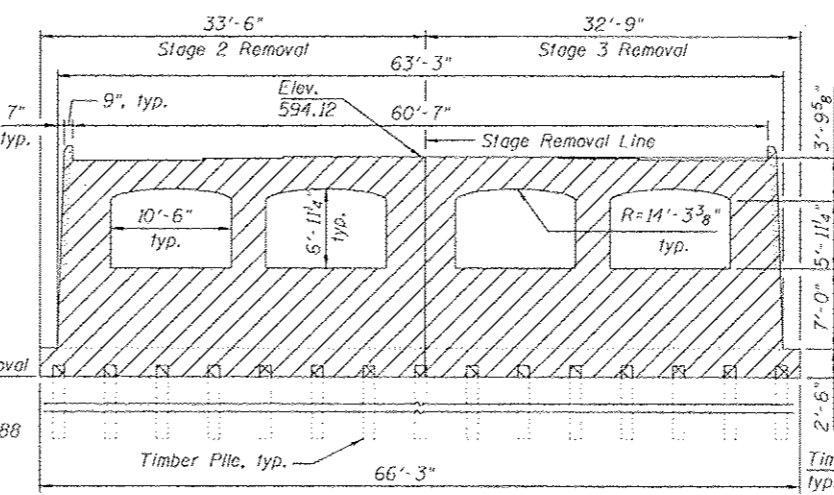
**FOOTING PLAN - NORTH ABUTMENT**



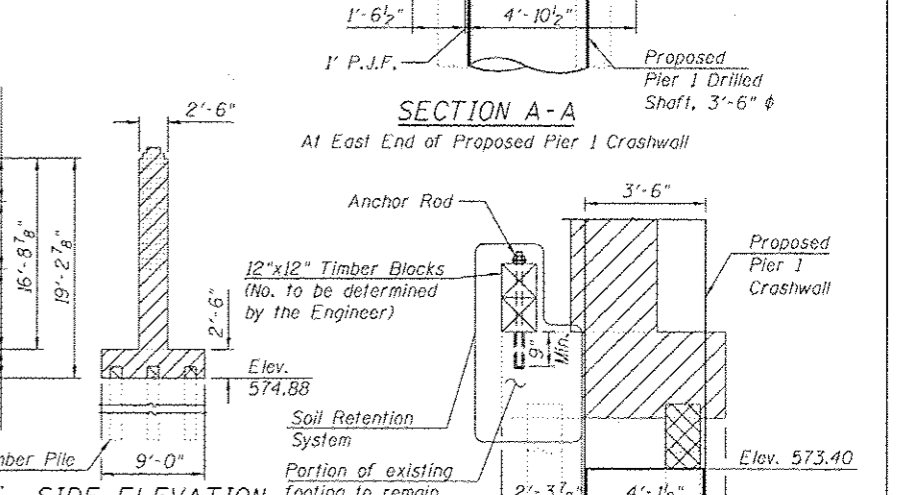
**ELEVATION - PIER 1 REMOVAL**  
(Looking South)



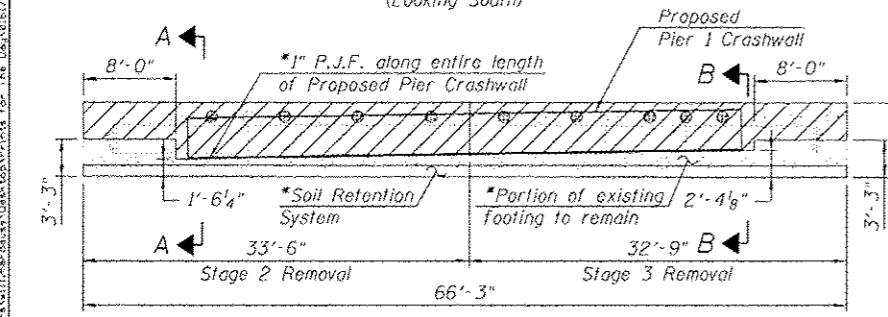
**SIDE ELEVATION PIER 1**  
(Looking East)



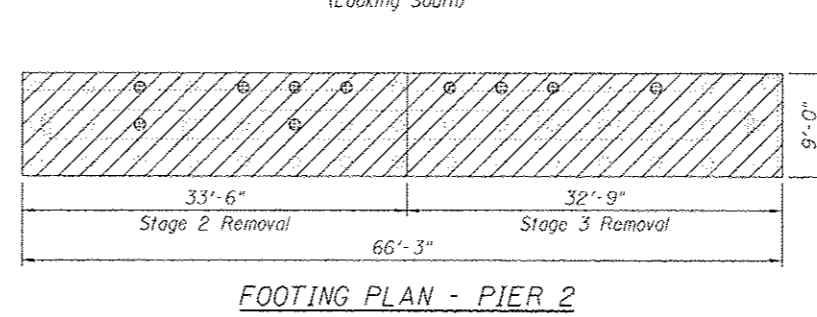
**ELEVATION - PIER 2 REMOVAL**  
(Looking South)



**SIDE ELEVATION PIER 2**  
(Looking East)



**FOOTING PLAN - PIER 1**



**FOOTING PLAN - PIER 2**

**SECTION A-A**  
At East End of Proposed Pier 1 Crashwall

**SECTION B-B**  
At West End of Proposed Pier 1 Crashwall

**LEGEND:**

- Concrete removal
- Portion of existing timber pile to be removed
- Pile Extraction

**NOTES:**

- The Contractor shall remove the timber blocks and anchor bolts of the Soil Retention System at Pier 1 after construction of proposed pier has been completed and backfill area as required. See Special Provision.
- For additional notes, see Sheet SI-06.

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RESEARCH & TESTING

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MILLISVILLE, IL 60162  
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FAX: (708) 236-0901

0161789-68425-587-RemovalDetail.dgn  
USER NAME: willmardous  
PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 7/15/2013

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DRAWN - JMC, MAF  
CHECKED - MI, MAF, JMC  
DATE - 6/17/2013

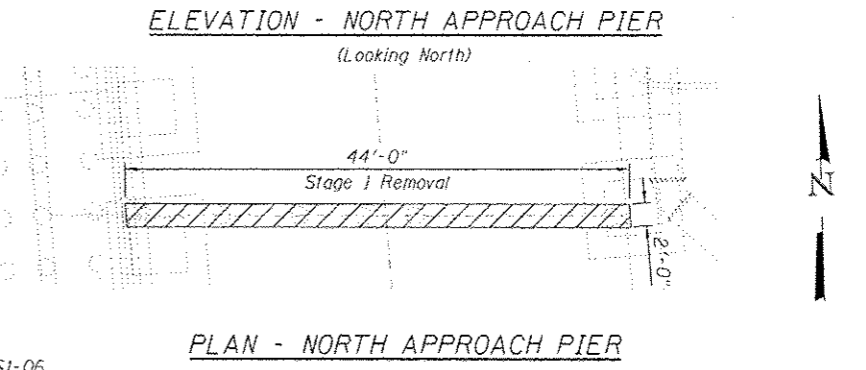
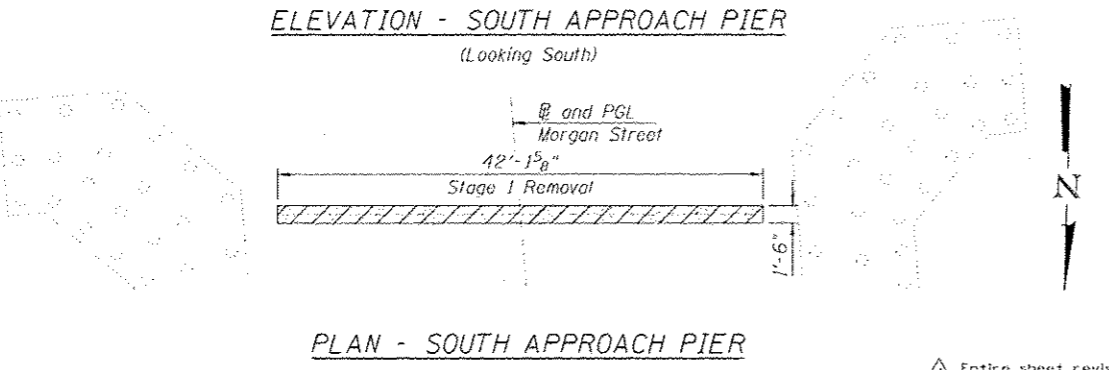
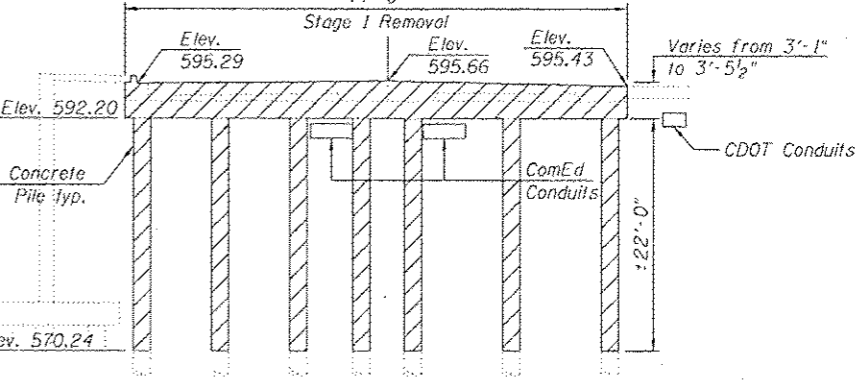
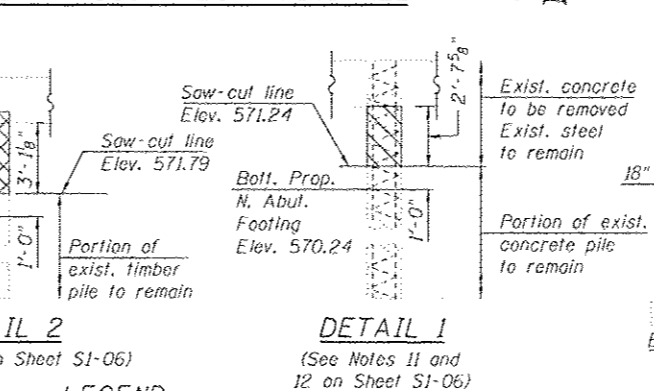
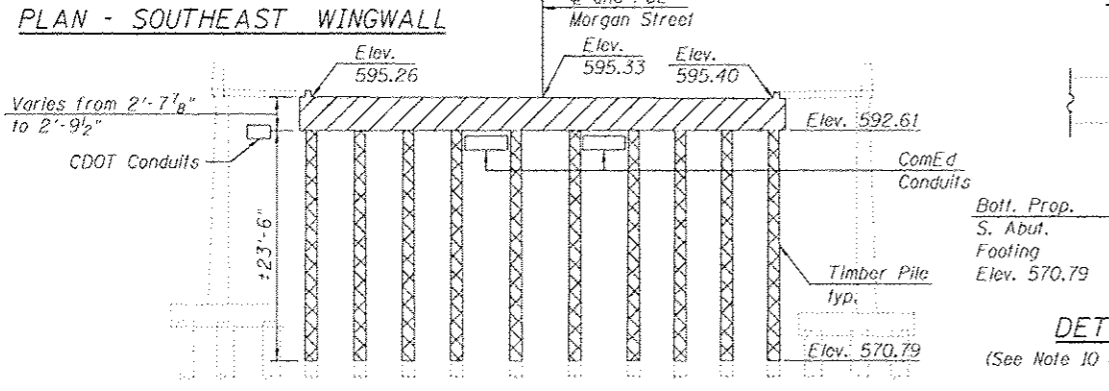
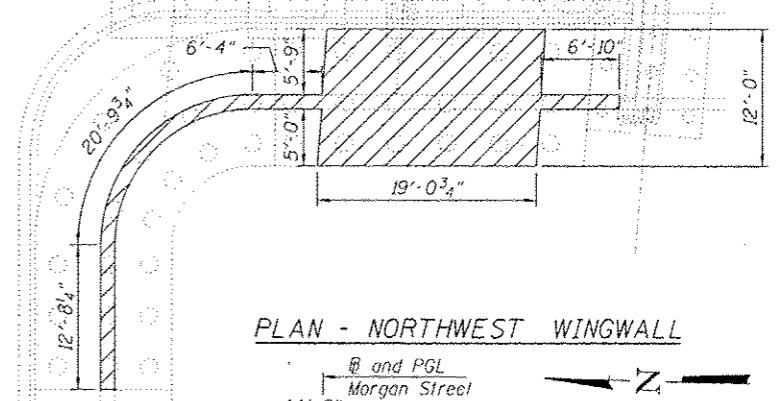
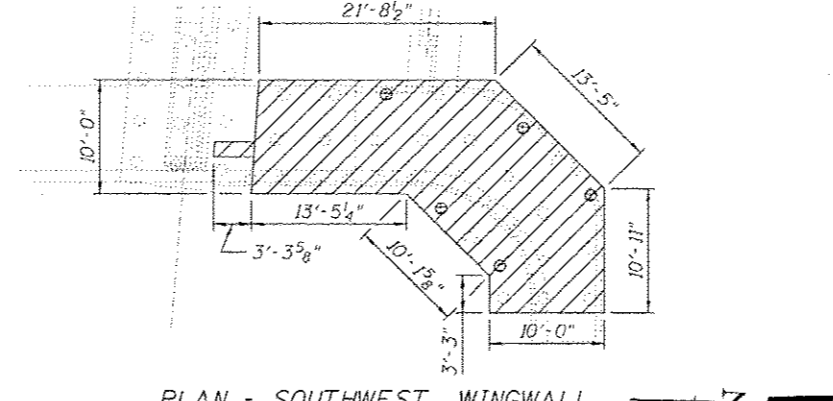
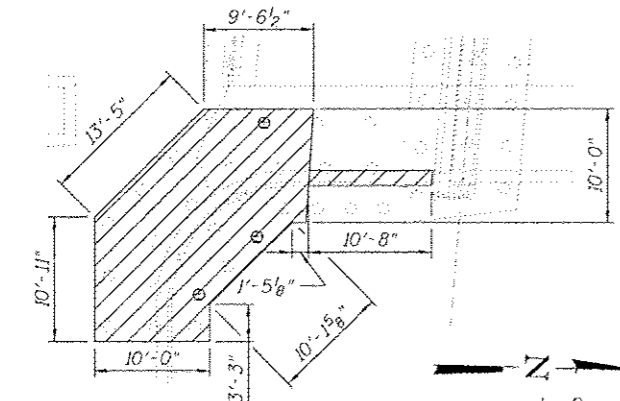
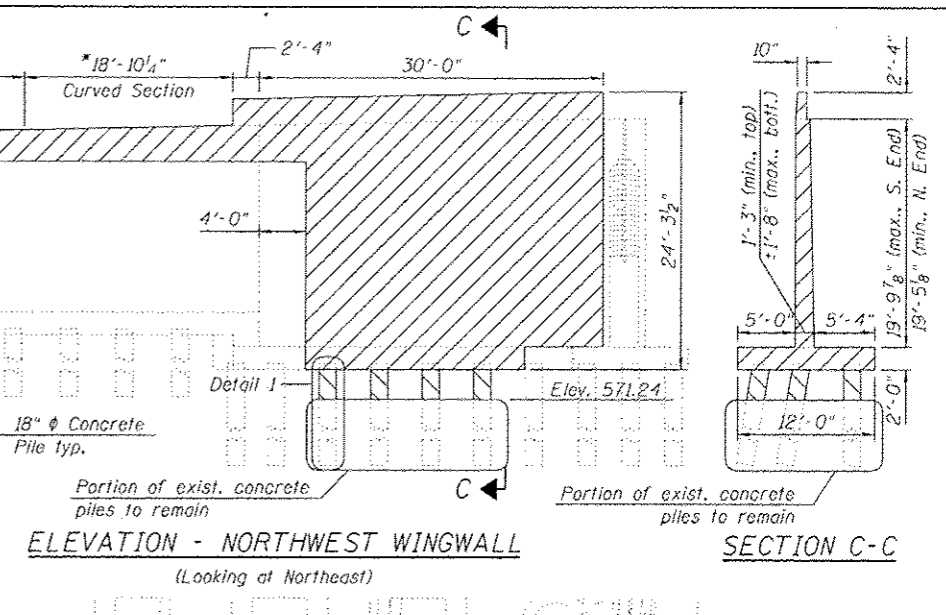
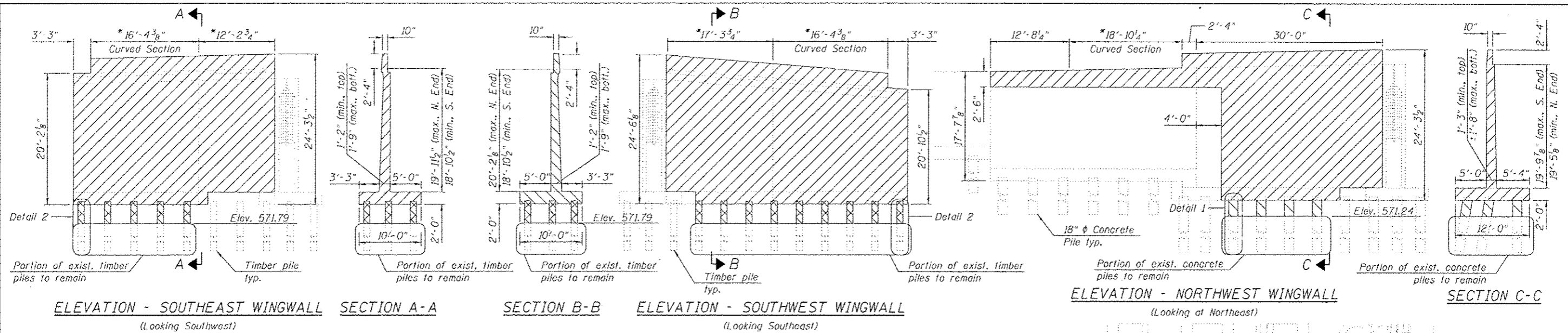
REVISIONS - 07/19/2013 MI, MAF

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE REMOVAL DETAILS 1 OF 2**  
**STRUCTURE NO. 016-1709**

SCALE: SHEET SI-07 OF 51 SHEETS STA. 10 STA.

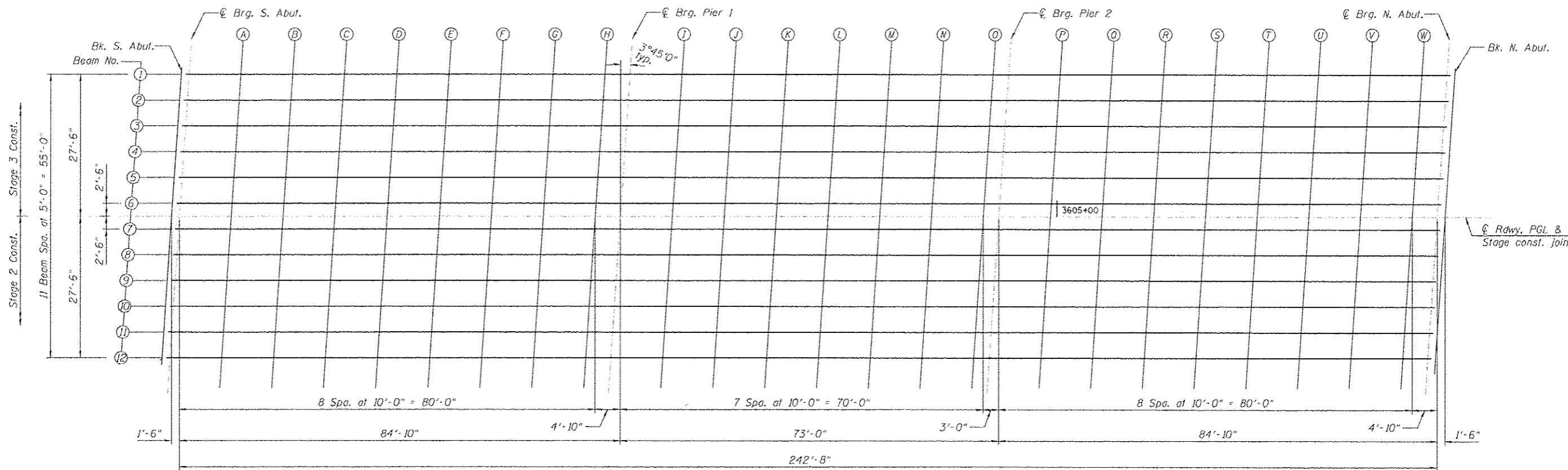
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90/94/290	2013-007R	COCK	317	151
CONTRACT NO. 60W25			ILLINOIS REG. AND PROJECT	



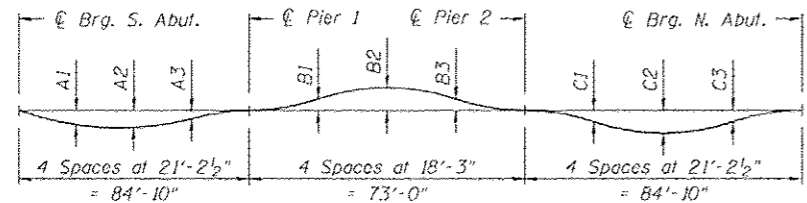
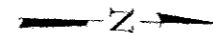
- LEGEND:**
- Concrete removal
  - Portion of existing concrete pile to be removed
  - Portion of existing timber pile to be removed
  - Pile Extraction

**NOTE:**  
Entire sheet revised \* Measured along front face of wingwall. For notes, see Sheet S1-06.

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161789-00425-580-RemovalDetails2.dwg USER NAME: willmardouas PLOT SCALE: 8/8" = 1' / in. PLOT DATE: 7/15/2013	DESIGNED - MI, MAF, JMG DRAWN - JMG, MAF CHECKED - MI, MAF, JMG DATE - 6/17/2013	REVISIONS: 07/19/2013 MI, MAF	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING STRUCTURE REMOVAL DETAILS 2 OF 2</b> <b>STRUCTURE NO. 016-1709</b>	F.A.I. R.T.E.: 90/94/290 SECTION: 2013-00TR COUNTY: COOK TOTAL SHEETS: 317 SHEET NO.: 152	CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
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PLAN



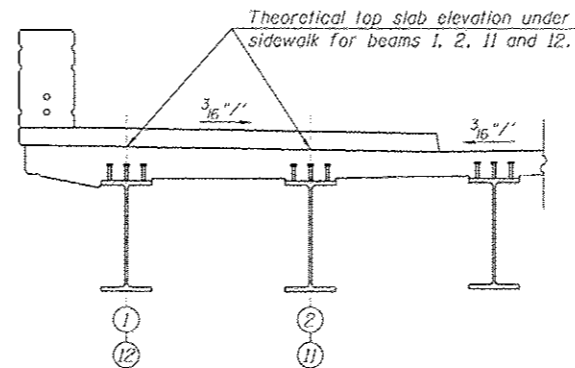
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

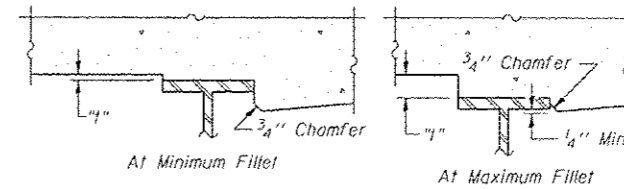
Note:

The above deflections are not for use in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection."

Beam Number	DEAD LOAD DEFLECTIONS								
	Span 1			Span 2			Span 3		
	A1	A2	A3	B1	B2	B3	C1	C2	C3
1 & 12	1 1/8"	1 3/8"	7/8"	-1/4"	-1/4"	-1/4"	7/8"	1 3/8"	1 1/8"
2 & 11	1"	1 1/4"	3/4"	-1/4"	-1/4"	-1/4"	3/4"	1 1/4"	1"
3 & 10	7/8"	1 1/8"	3/4"	-1/8"	-1/8"	-1/8"	3/4"	1 1/8"	7/8"
4 Thru 9	7/8"	1 1/8"	5/8"	-1/8"	-1/8"	-1/8"	5/8"	1 1/8"	7/8"



THEORETICAL TOP OF SLAB ELEVATION FOR BEAMS UNDER SIDEWALK



To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS

Entire sheet revised

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NILES, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

R161789-60W25-S18-Screen.dgn  
DESIGNED - M.L. LAB  
DRAWN - LAB  
CHECKED - MAI, M. JJS  
DATE - 6/17/2013  
REVISIONS:  
07/19/2013 M.L. LAB

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATION LOCATIONS  
STRUCTURE NO. 016-1709

SCALE: SHEET 11-10 OF 51 SHEETS STA. TO STA.

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	151
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

FILE PATH: C:\Users\N111\OneDrive\Desktop\Prints For The Day\161789-60W25-S18-Screen.dgn



BEAM 1

Table for BEAM 1 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

BEAM 2

Table for BEAM 2 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

BEAM 3

Table for BEAM 3 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

BEAM 4

Table for BEAM 4 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

BEAM 5

Table for BEAM 5 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

BEAM 6

Table for BEAM 6 with columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection. Rows include BK. S. ABUT., CL. BRG. S. ABUT., A through Q, CL. PIER 1, CL. PIER 2, and BK. N. ABUT.

Entire sheet revised

HBM ENGINEERING GROUP, LLC. 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162. PHONE: (708) 236-0900 FAX: (708) 236-0901

DESIGNER - MI, LAS REVISOR - MI, LAS DRAWN - LAB REVISOR - MAI, MI, JJS CHECKED - DATE - 6/17/2013

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION. PROJECT NO. 016-1709. SHEET 317 OF 317 SHEETS. STA. TO STA.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SHEET 1 OF 3) STRUCTURE NO. 016-1709

F.A.I. RTEL. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 155 CONTRACT NO. 60W25



BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	3603+27.59	27.50'	595.70	595.70
CL. BRG. S. ABUT.	3603+29.09	27.50'	595.76	595.76
A	3603+39.09	27.50'	596.17	596.23
B	3603+49.09	27.50'	596.54	596.63
C	3603+59.09	27.50'	596.86	596.97
D	3603+69.09	27.50'	597.13	597.24
E	3603+79.09	27.50'	597.34	597.45
F	3603+89.09	27.50'	597.51	597.59
G	3603+99.09	27.50'	597.63	597.67
H	3604+09.09	27.50'	597.69	597.70
CL. PIER 1	3604+13.92	27.50'	597.72	597.72
I	3604+23.92	27.50'	597.77	597.75
J	3604+33.92	27.50'	597.82	597.80
K	3604+43.92	27.50'	597.87	597.85
L	3604+53.92	27.50'	597.92	597.90
M	3604+63.92	27.50'	597.96	597.95
N	3604+73.92	27.50'	597.97	597.95
O	3604+83.92	27.50'	597.93	597.92
CL. PIER 2	3604+86.92	27.50'	597.90	597.90
P	3604+96.92	27.50'	597.80	597.81
Q	3605+06.92	27.50'	597.64	597.71
R	3605+16.92	27.50'	597.43	597.53
S	3605+26.92	27.50'	597.18	597.29
T	3605+36.92	27.50'	596.87	596.98
U	3605+46.92	27.50'	596.51	596.61
V	3605+56.92	27.50'	596.11	596.18
W	3605+66.92	27.50'	595.67	595.68
CL. BRG. N. ABUT.	3605+71.76	27.50'	595.44	595.44
BK. N. ABUT.	3605+73.26	27.50'	595.38	595.38

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Entire sheet revised

**HBM**  
 ENGINEERING GROUP, LLC  
 CONSULTING & DESIGN  
 INSPECTION & TESTING  
 RESEARCH & TESTING

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 PLOT DATE: 7/15/2013

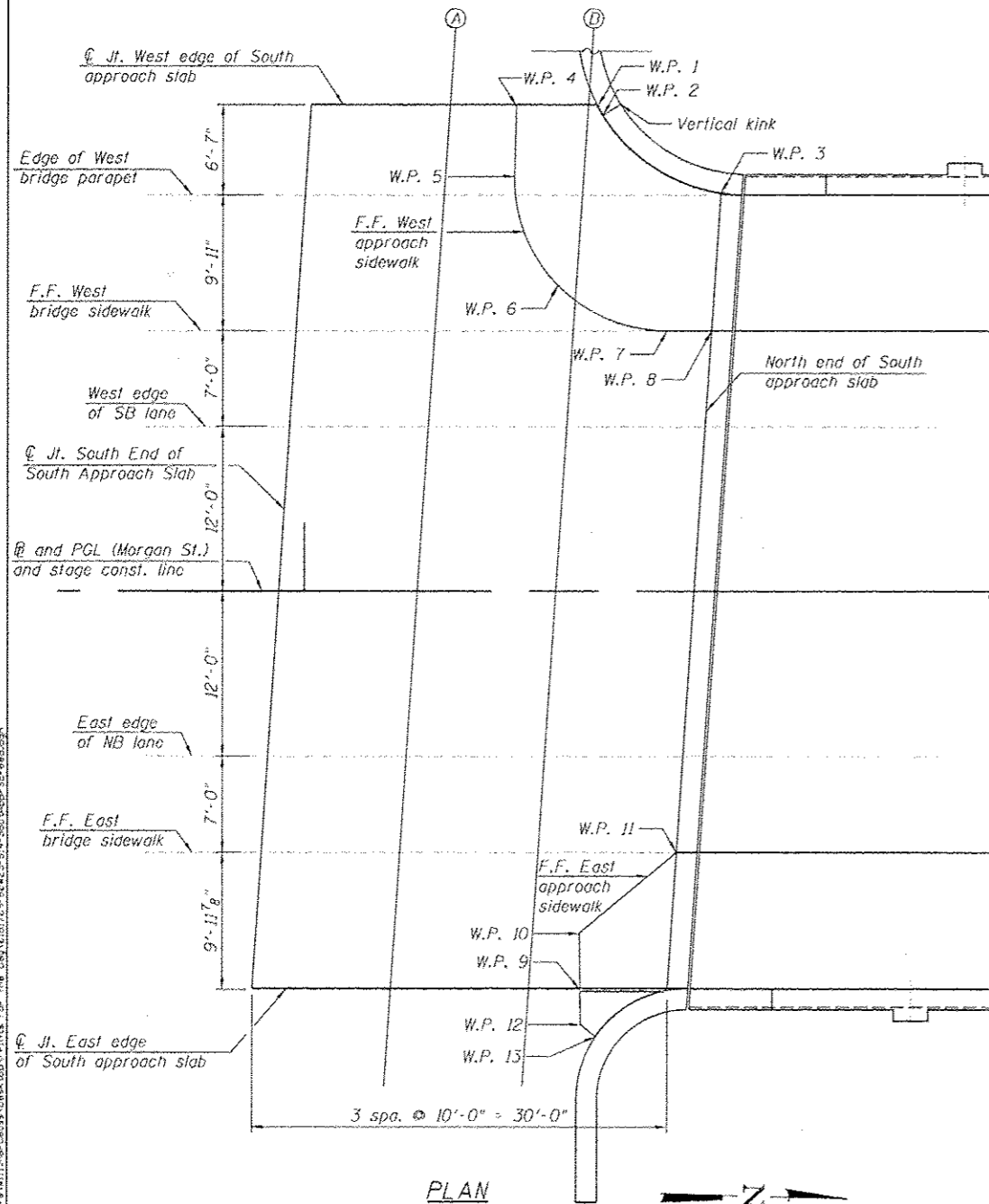
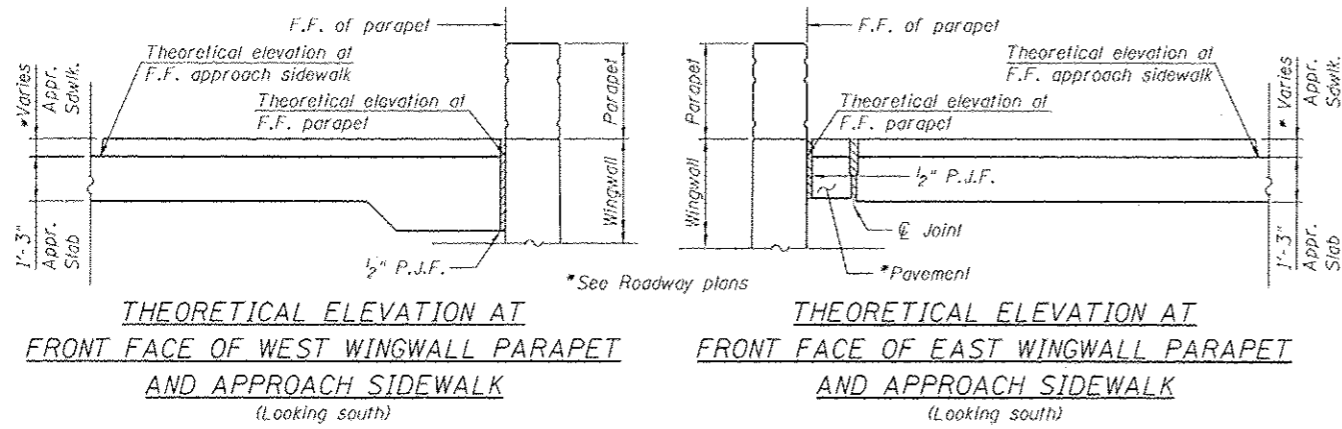
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 DRAWN - LAB  
 CHECKED - MAI, MI, JJS  
 DATE - 6/17/2013

REVISED - 07/19/2013 MI, LAP  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (SHEET 3 OF 3)  
 STRUCTURE NO. 016-1709  
 SCALE: SHEET 51-13 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	157
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



PLAN



Entire sheet revised

☉ JT. WEST EDGE OF SOUTH APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3603+00.46	-35.50	594.30
A	3603+10.46	-35.50	594.63
B	3603+20.46	-35.50	594.81
N. End South Appr. Slab			

FRONT FACE OF WEST WINGWALL PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W.P. 1	3603+21.13	-35.39	594.81
W.P. 2	3603+21.51	-34.74	594.91
W.P. 3	3603+30.04	-29.06	596.29

EDGE OF WEST BRIDGE PARAPET

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3603+00.03	-28.92	594.39
A	3603+10.03	-28.92	594.71
B	3603+20.03	-28.92	595.09
N. End South Appr. Slab	3603+30.03	-28.92	596.22

FRONT FACE OF WEST APPROACH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
W.P. 4	3603+15.27	-35.39	593.75
W.P. 5	3603+15.15	-30.27	594.88
W.P. 6	3603+18.28	-22.32	595.12
W.P. 7	3603+26.15	-19.00	595.50
W.P. 8	3603+29.38	-19.00	595.94

FRONT FACE OF WEST BRIDGE SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+99.38	-19.00	594.52
A	3603+09.38	-19.00	594.84
B	3603+19.38	-19.00	595.22
N. End South Appr. Slab	3603+29.38	-19.00	595.64

WEST EDGE OF SB LANE

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+98.92	-12.00	594.62
A	3603+08.92	-12.00	594.94
B	3603+18.92	-12.00	595.31
N. End South Appr. Slab	3603+28.92	-12.00	595.73

☉ AND PGL (MORGAN ST.) AND STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+98.14	0.00	594.78
A	3603+08.14	0.00	595.10
B	3603+18.14	0.00	595.47
N. End South Appr. Slab	3603+28.14	0.00	595.88

EAST EDGE OF NB LANE

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+97.35	12.00	594.57
A	3603+07.35	12.00	594.89
B	3603+17.35	12.00	595.25
N. End South Appr. Slab	3603+27.35	12.00	595.66

FRONT FACE OF EAST BRIDGE SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+96.89	19.00	594.45
A	3603+06.89	19.00	594.76
B	3603+16.89	19.00	595.12
N. End South Appr. Slab	3603+26.89	19.00	595.53

FRONT FACE OF EAST APPROACH CURB

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+96.75	21.13	594.42
A	3603+06.80	20.42	594.74
B	3603+16.84	19.71	595.11
N. End South Appr. Slab	3603+26.89	19.00	595.53

FRONT FACE OF EAST APPROACH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
W.P. 9	3603+19.95	28.99	595.73
W.P. 10	3603+19.89	24.92	595.67
W.P. 11	3603+26.89	19.00	595.53

WEST EDGE OF ACCESSIBLE PATH

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+96.40	26.48	594.84
A	3603+06.44	25.81	595.15
B	3603+16.49	25.14	595.54
W.P. 10	3603+19.89	24.92	595.67

☉ JT. EAST EDGE OF SOUTH APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations
☉ Jt. S. End South Appr. Slab	3602+96.24	28.99	594.87
A	3603+06.24	28.99	595.20
B	3603+16.24	28.99	595.59
N. End South Appr. Slab	3603+26.24	28.99	596.18

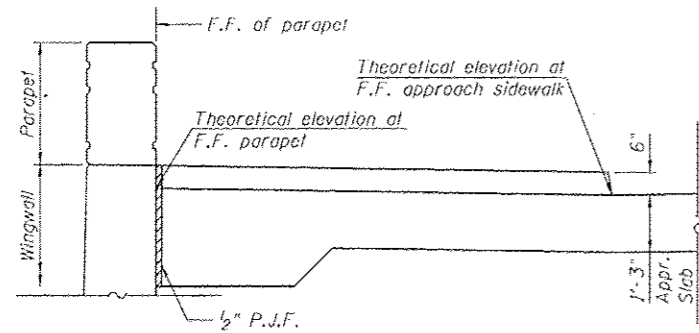
TOP OF PAVEMENT AT FRONT FACE OF EAST APPROACH SIDEWALK AND EAST WINGWALL PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W.P. 9	3603+19.95	28.99	595.73
W.P. 12	3603+19.99	31.53	595.82
W.P. 13	3603+21.08	32.40	595.80
N. End South Appr. Slab	3603+26.23	29.05	596.18

FILE PATH: C:\Users\willmordaus\Desktop\Prints for the Day\2013\60W25-514-SouthAppr-Side.dwg

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60142 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161789-60W25-514-SouthAppr-Side.dwg USER NAME: willmordaus PLOT SCALE: 60/0.0000 1" = 10' PLOT DATE: 7/15/2013	DESIGNED - MI, LAB DRAWN - LAB CHECKED - MAI, MI, JJS DATE - 6/17/2013	REVISIONS 07/15/2013 MI, JJS REVISIONS REVISIONS REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TOP OF SOUTH APPROACH SLAB ELEVATIONS</b> <b>STRUCTURE NO. 016-1709</b>	SCALE: SHEET SI-14 OF 51 SHEETS STA. TO STA.	F.A.I. RTE. 90/94/290 SECTION 2013-00TR COUNTY COOK TOTAL SHEETS 317 SHEET NO. 158 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
	Entire sheet revised					ILLINOIS FED. AID PROJECT	





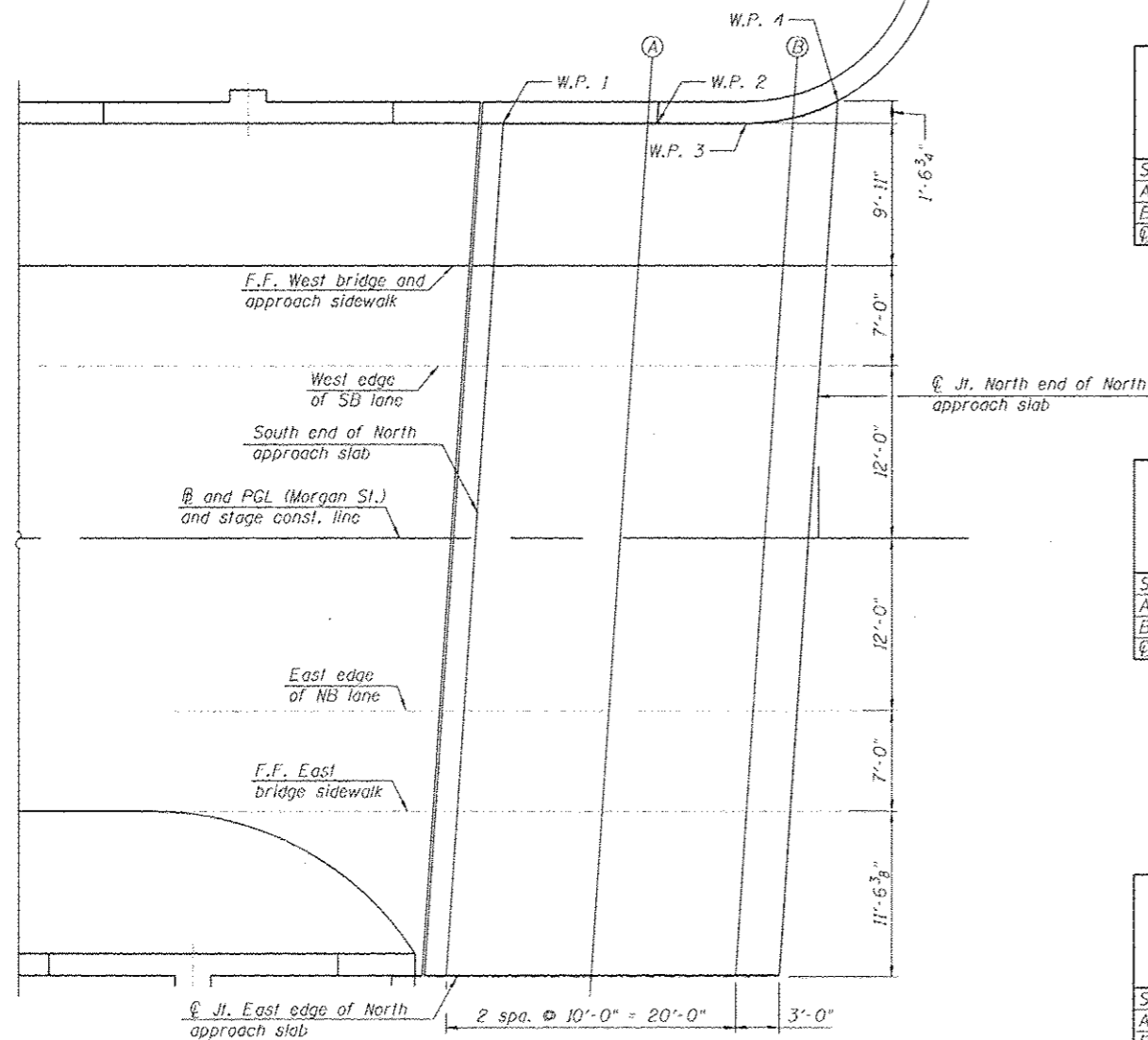
**THEORETICAL ELEVATION AT FRONT FACE OF WEST WINGWALL PARAPET AND APPROACH SIDEWALK**  
(Looking north)

**FRONT FACE OF WEST WINGWALL PARAPET**

Location	Station	Offset	Theoretical Grade Elevations
W.P. 1	3605+78.21	-28.92	595.70
A	3605+88.21	-28.92	595.32
W.P. 2	3605+88.86	-28.92	595.29
W.P. 3	3605+95.00	-28.92	595.00
B	3605+98.24	-29.31	594.78
W.P. 4	3606+01.31	-30.48	594.56

**FRONT FACE OF WEST BRIDGE & APPROACH SIDEWALK**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+77.56	-19.00	595.07
A	3605+87.56	-19.00	594.68
B	3605+97.56	-19.00	594.35
☉ Jt. N. End North Appr. Slab	3606+00.56	-19.00	594.25



**PLAN**

**WEST EDGE OF SB LANE**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+77.10	-12.00	595.20
A	3605+87.10	-12.00	594.81
B	3605+97.10	-12.00	594.47
☉ Jt. N. End North Appr. Slab	3606+00.10	-12.00	594.38

**☉ AND PGL (MORGAN ST.) AND STAGE CONST. LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+76.31	0.00	595.42
A	3605+86.31	0.00	595.03
B	3605+96.31	0.00	594.68
☉ Jt. N. End North Appr. Slab	3605+99.31	0.00	594.59

**EAST EDGE OF NB LANE**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+75.53	12.00	595.26
A	3605+85.53	12.00	594.87
B	3605+95.53	12.00	594.52
☉ Jt. N. End North Appr. Slab	3605+98.53	12.00	594.43

**FRONT FACE OF EAST BRIDGE SIDEWALK**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+75.07	19.00	595.17
A	3605+85.07	19.00	594.78
B	3605+95.07	19.00	594.43
☉ Jt. N. End North Appr. Slab	3605+98.07	19.00	594.33

**☉ JT. EAST EDGE OF NORTH APPROACH SLAB**

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	3605+74.31	30.53	595.02
A	3605+84.31	30.53	594.62
B	3605+94.31	30.53	594.27
☉ Jt. N. End North Appr. Slab	3605+97.31	30.53	594.17

Entire sheet revised

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSTOCK, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

RIG1789-68W25-515-NorthAppr-SideRoad.dgn  
USER NAME: willmardown  
PLOT SCALE: 6/8/800 1" = 10'  
PLOT DATE: 7/15/2013

DESIGNED - MI, LAB  
DRAWN - LAB  
CHECKED - MAI, MI, JJS  
DATE - 6/17/2013

REVISED - 07/19/2013 MI, LAB  
REVISED -  
REVISED -  
REVISED -

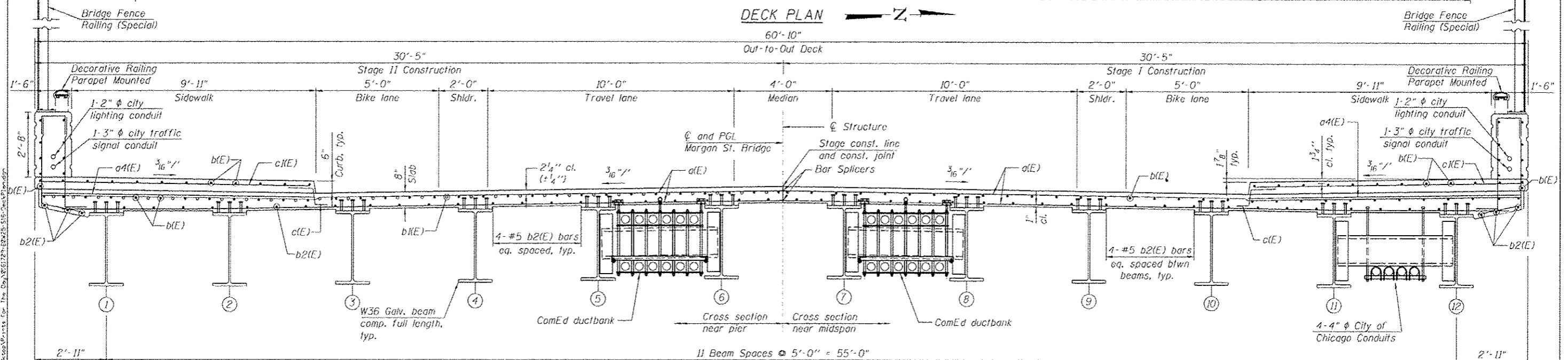
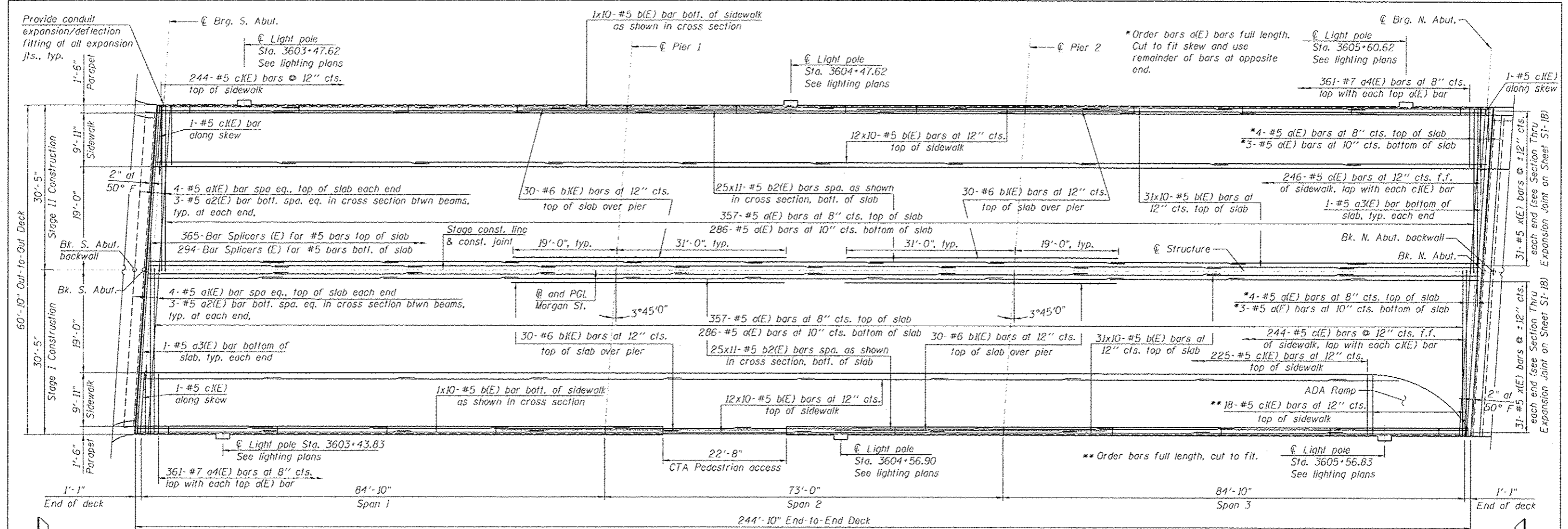
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 016-1709**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	337	159
CONTRACT NO. 60W25			ILLINOIS/FEH. AID PROJECT	

SCALE: SHEET 51-15 OF 51 SHEETS STA. TO STA.

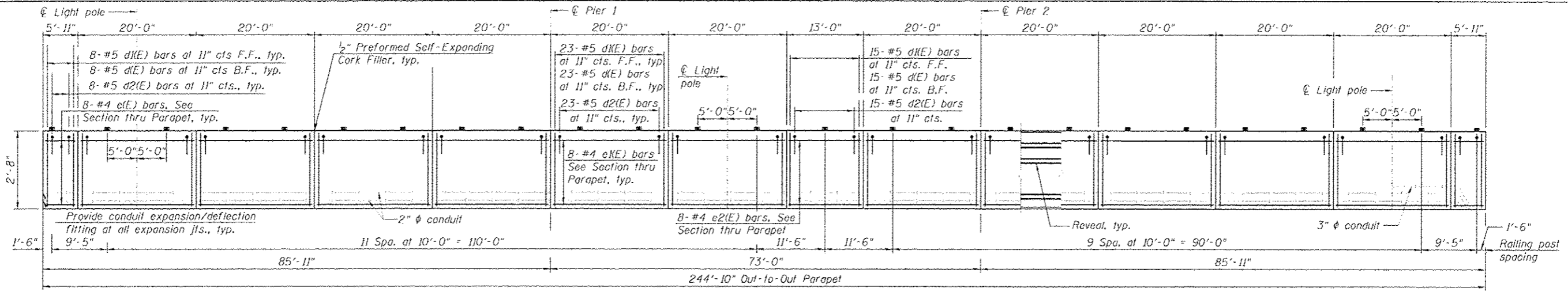




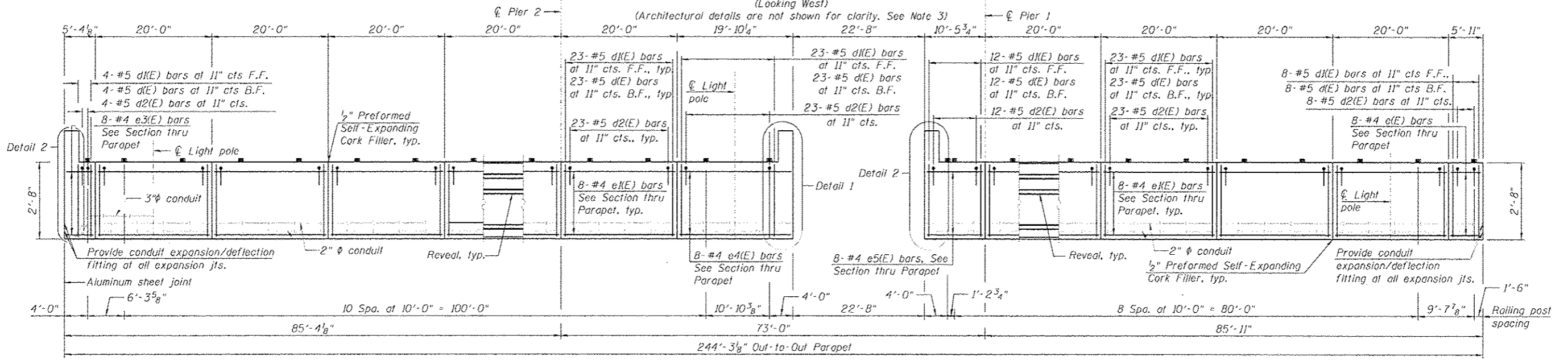
**NOTES:**

- Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Sheet S1-19 of S1.
- For cover plate at CTA entrance and additional notes, see Sheet S1-18.
- For plan and elevation at CTA pedestrian access, see Sheet S1-17.
- Proposed conduit support system is shown for information only on Sheets 92H, 92I and 92J. The concrete inserts (212 total) will be provided to the Contractor by ComEd. The Contractor is responsible for placing inserts per layout details and ComEd direction. ComEd may elect to provide support to Contractor for final insert placement in advance of pouring concrete. There is no separate payment for the placement of inserts. The work involved in placing inserts is included within Concrete Superstructure.
- For the conduits attached to structure and embedded in structure quantities and details, see Civil and Electrical plans.
- For City of Chicago Hanger Support, See Sheet S2-03

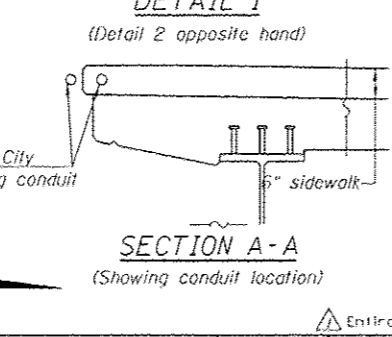
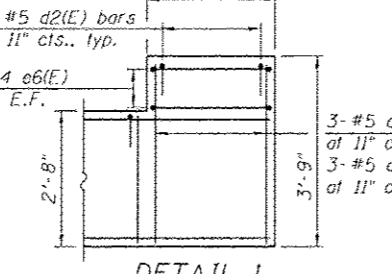
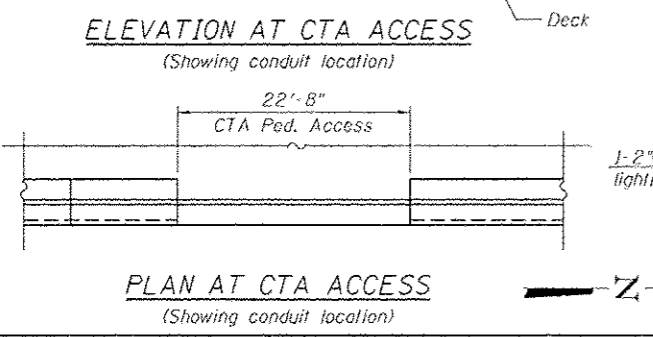
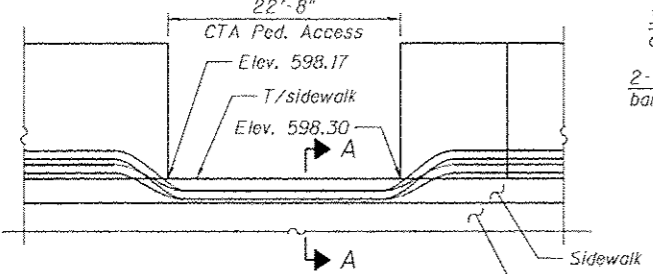
<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 NILES, ILL. 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	RIGIDITY: EPW20-S16-DeckPlan.dgn USER NAME: wj11.mardoush PLOT SCALE: 1/8" = 1'-0" PLOT DATE: 7/15/2013	DESIGNED - MI, WM DRAWN - WM, JJS CHECKED - MAJ, MI, JJS DATE - 6/17/2013	REVISED - $\Delta$ 07/19/2013 MI, LAR REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DECK PLAN AND CROSS SECTION STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 160 CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
	SCALE: SHEET S1-16 OF 51 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



**INSIDE ELEVATION OF WEST PARAPET**  
(Looking West)  
(Architectural details are not shown for clarity. See Note 3)

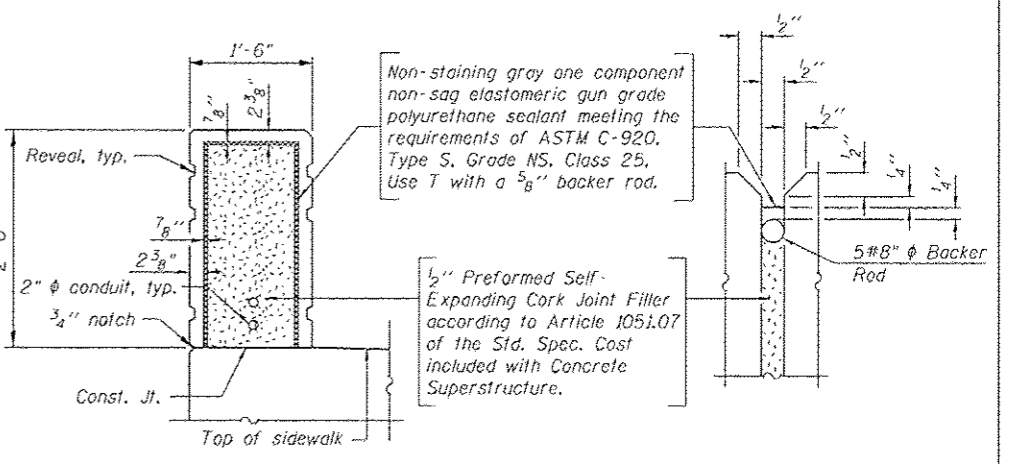


**INSIDE ELEVATION OF EAST PARAPET**  
(Looking East)  
(Architectural details are not shown for clarity. See Note 3)



**NOTES:**

1. For notes, bar diagrams and bill of material, see Sheet SI-18.
2. All edges shall be chamfered 3/4\".
3. For architectural details on the parapets, see Roadway plans.
4. For Bridge Fence Railing (special) layout and post spacing, see Sheet SI-21.
5. For Bridge Fence Railing (special) details, see Sheet SI-21A.
6. For Decorative Railing Parapet Mounted layout and post spacing, see Sheets 269C and 269D.
7. For Decorative Railing Parapet Mounted details, see Sheet SI-20.
8. For Section A-A at CTA Entrance, see Sheet SI-18.
9. For location of light pole and traffic signals on bridge see Sheet SI-17, Electrical and ITS plans.
10. The reveal on the Chicago parapet will not be paid separately and shall be included in the cost of the pay item "Concrete Structures"



**PARAPET JOINT DETAILS**

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSBIE, IL 60142  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

0161709-68425-S17-Parapet Edg  
DESIGNED - MI, WM  
DRAWN - WM, JJS  
CHECKED - MAJ, MI, JJS  
DATE - 6/17/2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

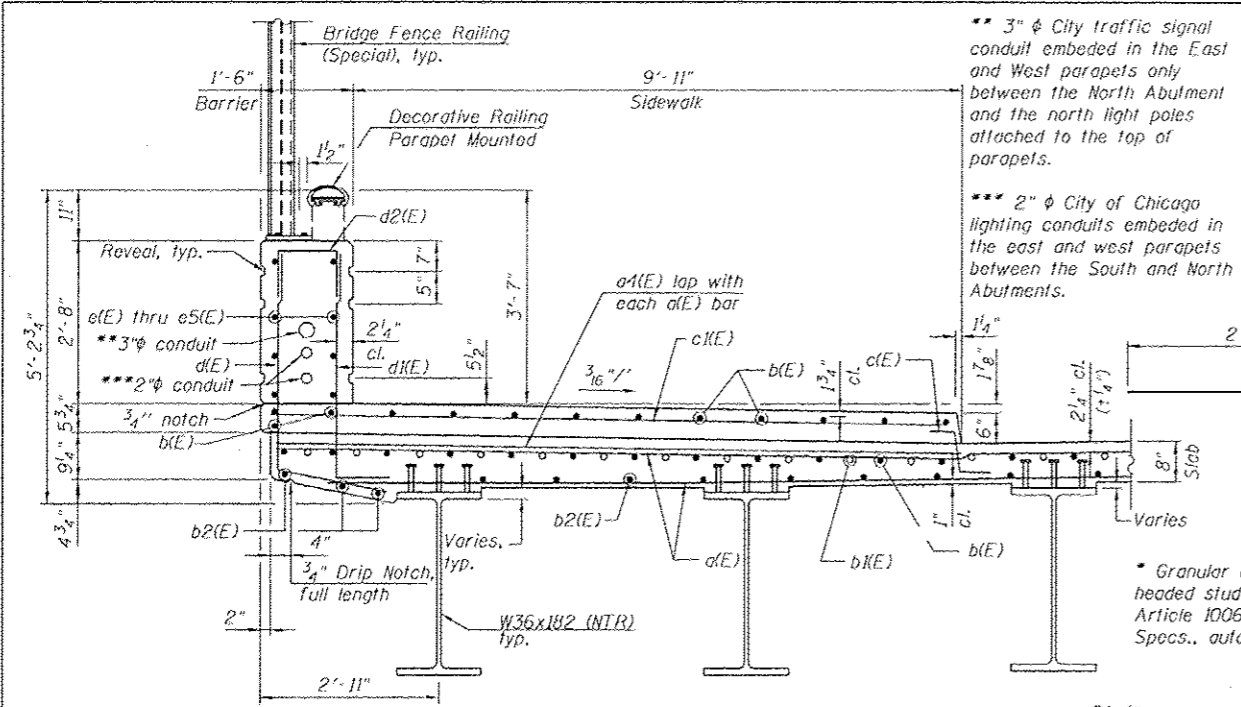
07/19/2013 MI, LAE

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

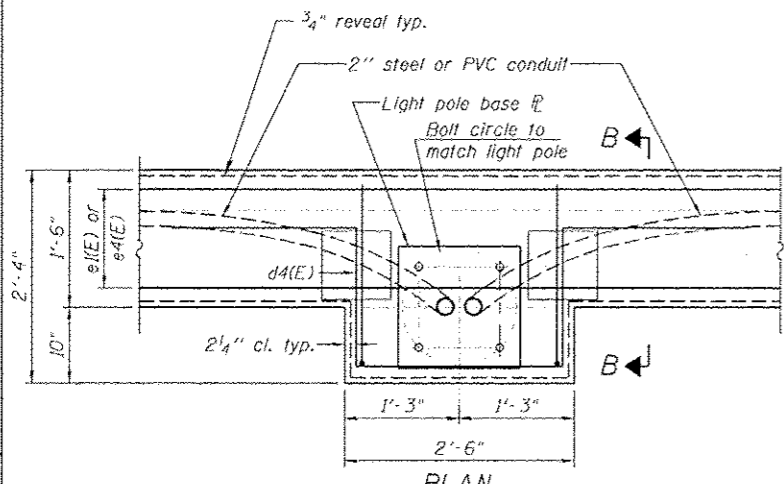
**PARAPET ELEVATIONS AND DETAILS**  
**STRUCTURE NO. 016-1709**

SCALE: SHEET SI-17 OF 51 SHEETS STA. TO STA.

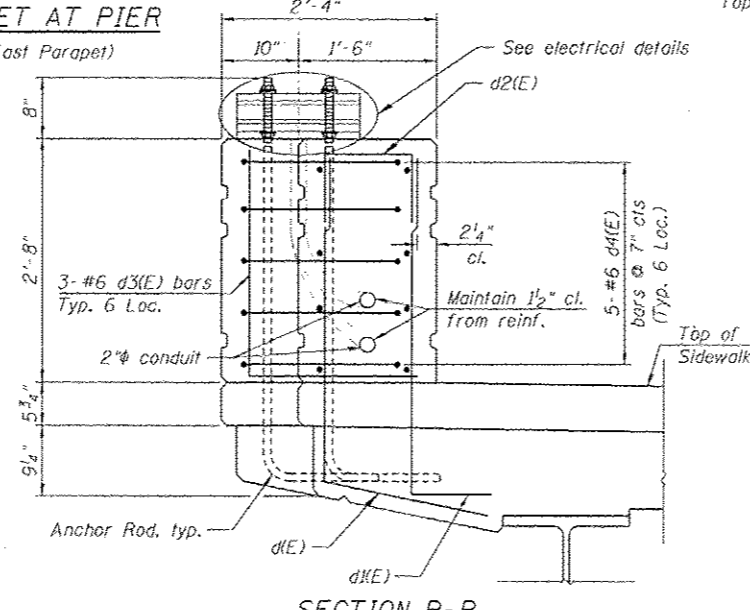
F.A.I. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90794/290	2013-007R	COOK	317	161
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



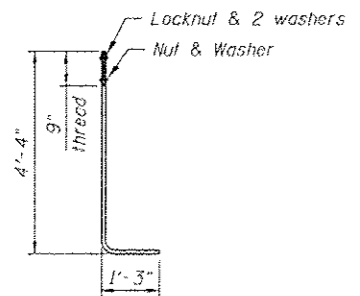
SECTION THRU WEST PARAPET AT PIER  
(Looking Up-Station at Pier typ. for East Parapet)



PLAN PARAPET DETAIL AT LIGHTPOLE



SECTION B-B PARAPET DETAIL AT LIGHTPOLE

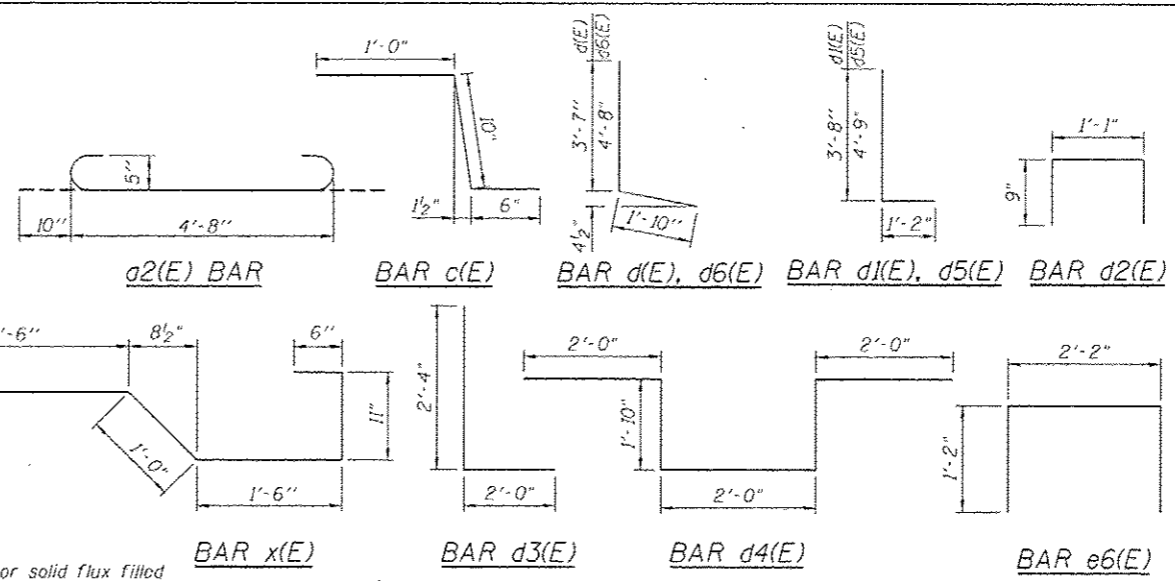


ANCHOR ROD REVEAL DETAIL

Cost of anchor rods is included with Concrete Superstructure.

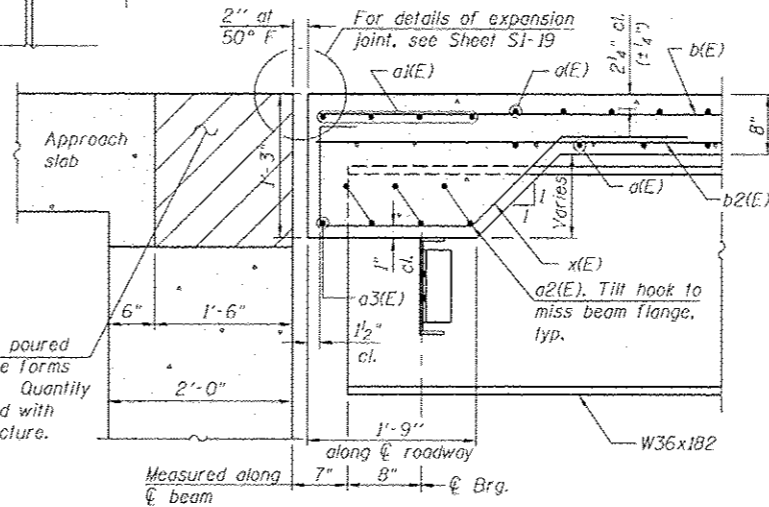
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.



SECTION A-A AT CTA ENTRANCE

Cost for preformed joint filler, steel studs and plates required for joint included with Concrete Superstructure.



SECTION THRU EXPANSION JOINT  
(Looking West, South joint shown North joint similar)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a1(E)	1300	#5	30'-0"	—	
a1(E)	16	#5	30'-3"	—	
a2(E)	66	#5	6'-4"	—	
a3(E)	4	#5	30'-3"	—	
a4(E)	722	#7	11'-3"	—	
b1(E)	880	#5	27'-5"	—	
b1(E)	120	#6	50'-0"	—	
b2(E)	550	#5	25'-3"	—	
c1(E)	490	#5	2'-4"	—	
c1(E)	490	#5	11'-0"	—	
d1(E)	538	#5	5'-5"	—	
d1(E)	538	#5	4'-10"	—	
d2(E)	547	#5	2'-7"	—	
d3(E)	18	#6	4'-4"	—	
d4(E)	30	#6	9'-8"	—	
d5(E)	9	#5	5'-11"	—	
d6(E)	9	#5	6'-6"	—	
e1(E)	24	#4	5'-7"	—	
e1(E)	160	#4	19'-7"	—	
e2(E)	8	#4	12'-9"	—	
e3(E)	8	#4	4'-11"	—	
e4(E)	8	#4	19'-6"	—	
e5(E)	8	#4	10'-2"	—	
e6(E)	12	#4	4'-4"	—	
x1(E)	124	#5	6'-5"	—	
Concrete Superstructure				Cu Yd	574.5
Bridge Deck Grooving				Sq Yd	980
Protective Coat				Sq Yd	1,827
Reinforcement Bars, Epoxy Coated				Pound	125,020

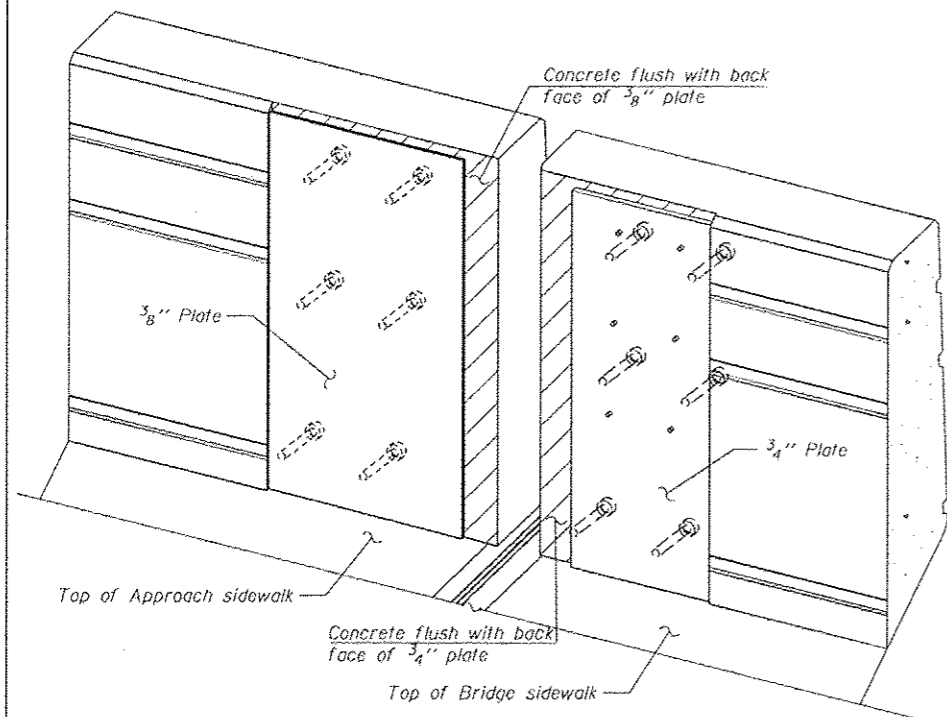
NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars noted thus 3x2-#5 indicates 3 lines of bars with 2 bars per line.
3. For parapet details, see Sheet S1-17.
4. For bar splicer detail, see Sheet S1-48.
5. For light pole location, bolt circle, and quantity of conduits attached to structure, see Electrical plans.
6. For ADA ramp locations, layout, elevations and details see Roadway plans.
7. Bars in the sidewalk interfering with the ADA Ramp Construction shall be bent and/or cut to fit based on the sidewalk depth in these areas.
8. Space e1(E) thru e5(E) bars to miss fence and railing anchor bolts.
9. Cost of expansion joint shall be included with Concrete Superstructure.

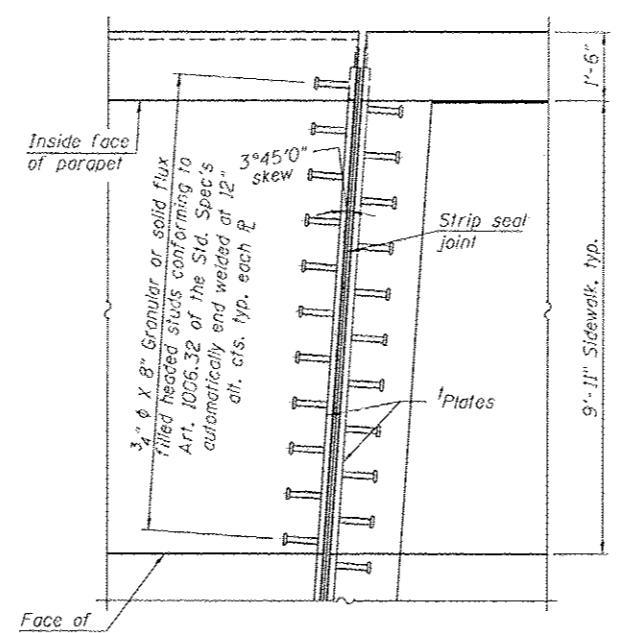
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 HBM ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 MILWAUKEE, IL 60018  
 CONSULTING & DESIGN PROJECTS & TESTING PHONE: (708) 236-0500 FAX: (708) 236-0901

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	124

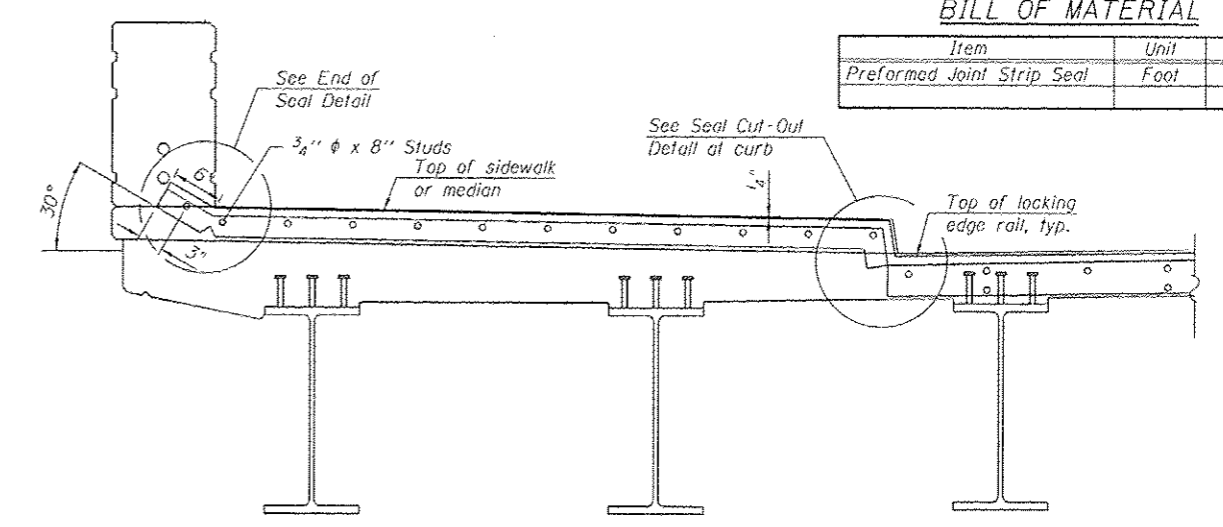


**TRIMETRIC VIEW**  
(Showing back plates only)



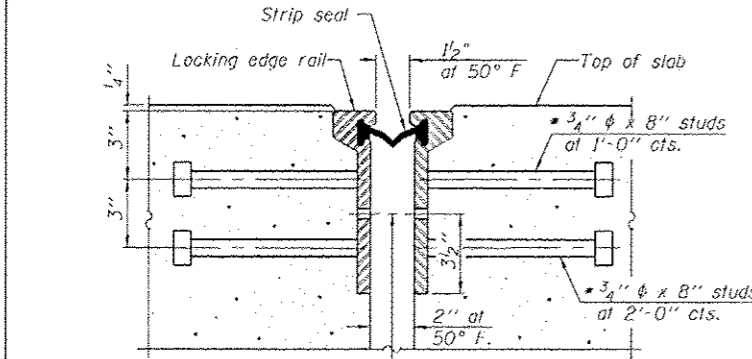
**PLAN AT N. ABUTMENT SIDEWALK**

NW Shown NE opposite hand typ. for S. Abut.

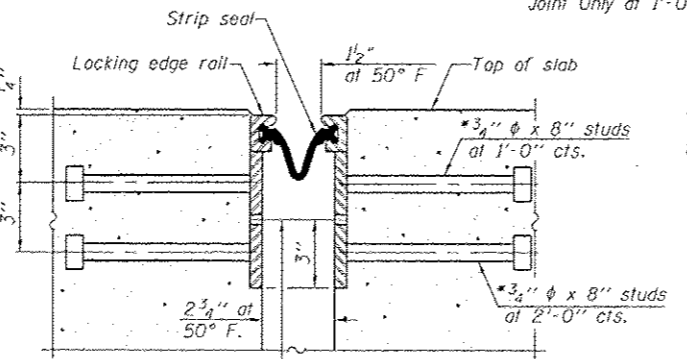


**TYPICAL END TREATMENT AT SIDEWALK**

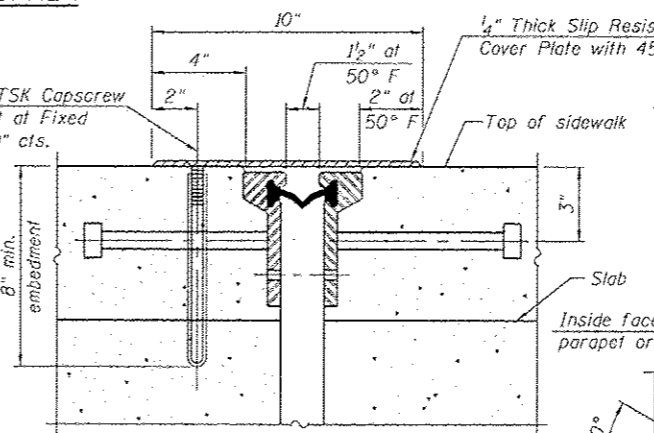
Shorter plates with a single row of studs at 12 inch cts. are necessary on sidewalks



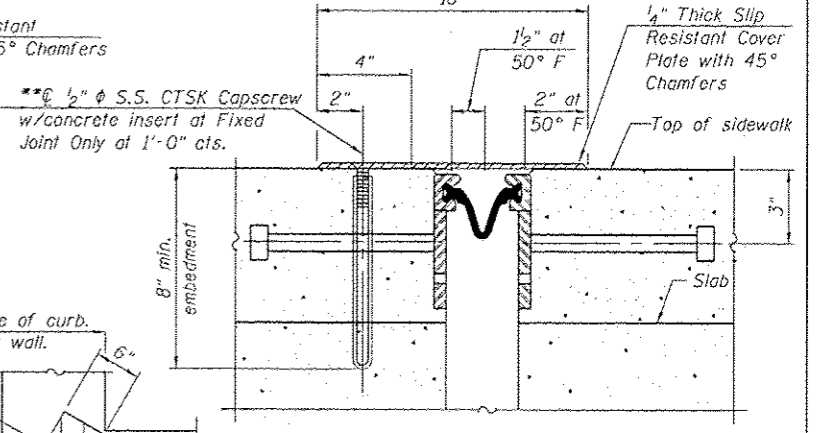
**SECTION THRU ROLLED RAIL JOINT AT SIDEWALK**



**SECTION THRU WELDED RAIL JOINT AT SIDEWALK**



**SECTION THRU ROLLED RAIL JOINT AT SIDEWALK**



**SECTION THRU WELDED RAIL JOINT AT ADA RAMP**

7/16 inch diameter holes at 4-foot-0 inch centers for 3/8 inch diameter bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

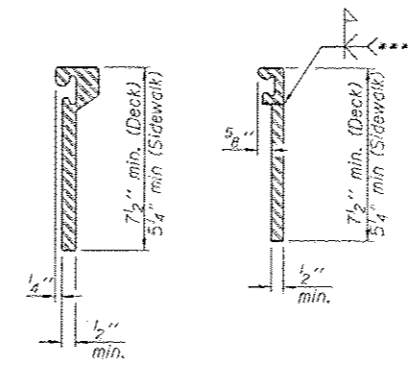
7/16 inch diameter holes at 4-foot-0 inch centers for 3/8 inch diameter bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Cost shall be included with Preformed Joint Strip Seal

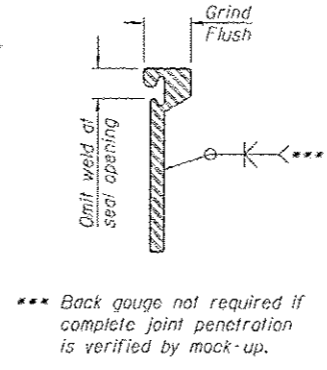
Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

**NOTES:**

- The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
- The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
- The manufacturer's recommended installation methods shall be followed.
- The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
- All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16 inch, sealed with a suitable sealant. Joints in rails within 10 feet of curbs shall be welded.
- Parapet plates and anchorage studs for skews > 30 degrees included in the cost of Preformed Joint Strip Seal.



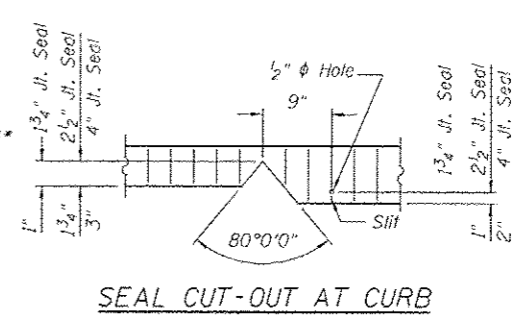
**ROLLED EXTRUDED RAIL WELDED RAIL LOCKING EDGE RAILS**



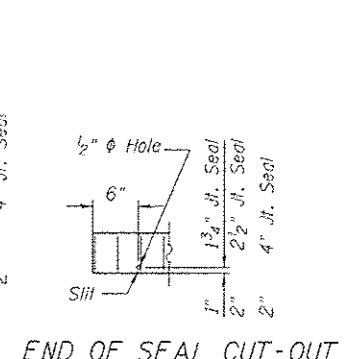
**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residuum. Rolled rail shown, welded rail similar.

**END OF SEAL**



**SEAL CUT-OUT AT CURB**



**END OF SEAL CUT-OUT**

**NOTES:**

- At East Abut. and West Abut. attach cover plate to the Ramp Pavement with 1/2 inch diameter S.S. CTSK capscrew with concrete insert at 1-foot-0 inch centers.
- All steel components shall be galvanized according to Article 520.03 of the Standard Specifications.

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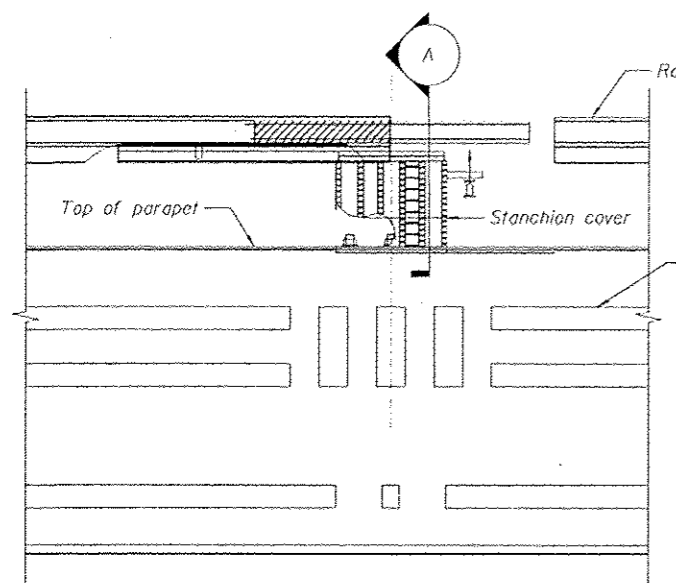
0161709-60W25-019-ExpJoint.dgn  
USER NAME: willmardous  
PLOT SCALE: 1/8"=1'-0"  
PLOT DATE: 7/15/2013  
DESIGNED - MI, WM  
DRAWN - WM, MAF  
CHECKED - MAI, MI, JJS  
DATE - 6/17/2013  
REVISED - 07/19/2013 MI, WM  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 016-1709**

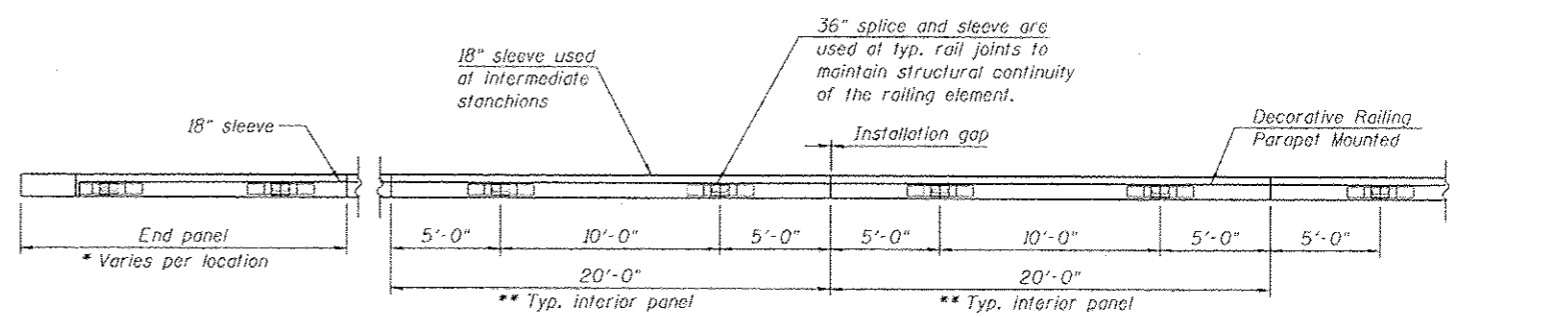
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/99/290	2013-007R	COOK	317	163
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



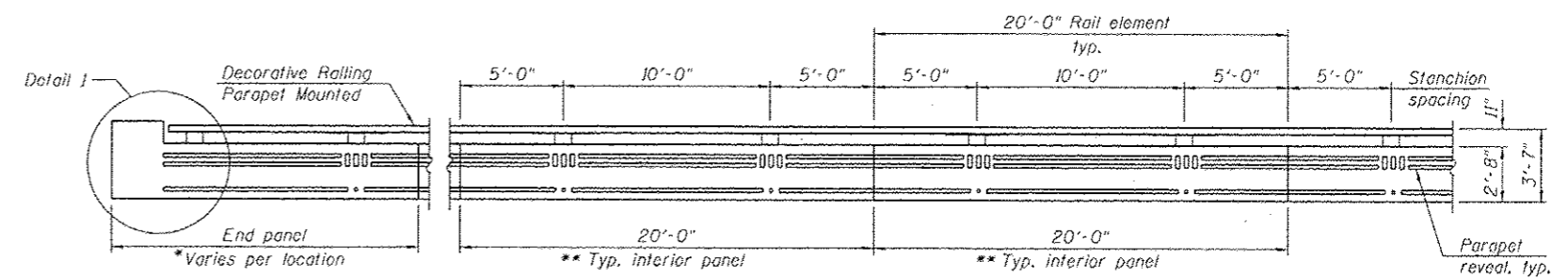


ELEVATION

\* Dimensions vary per location. See Sheets 8 and 9 of 9 of Roadway Plans for details.  
 \*\* Some interior panels are not 20' long. See Note 9.

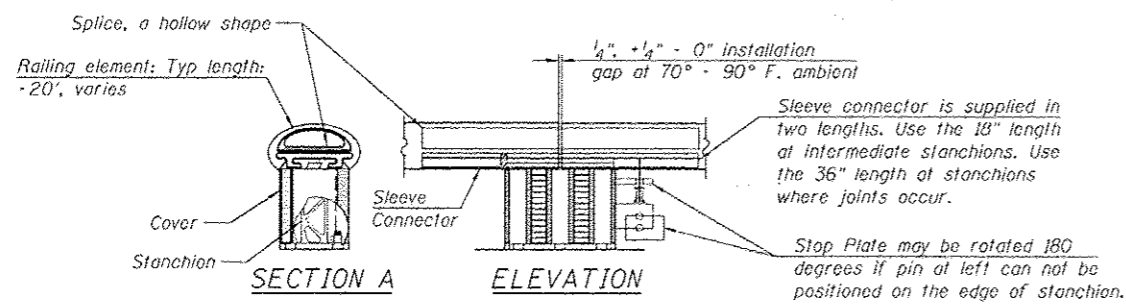


PLAN



ELEVATION

RAIL DETAIL - STANCHION LOCATION AND SPACING

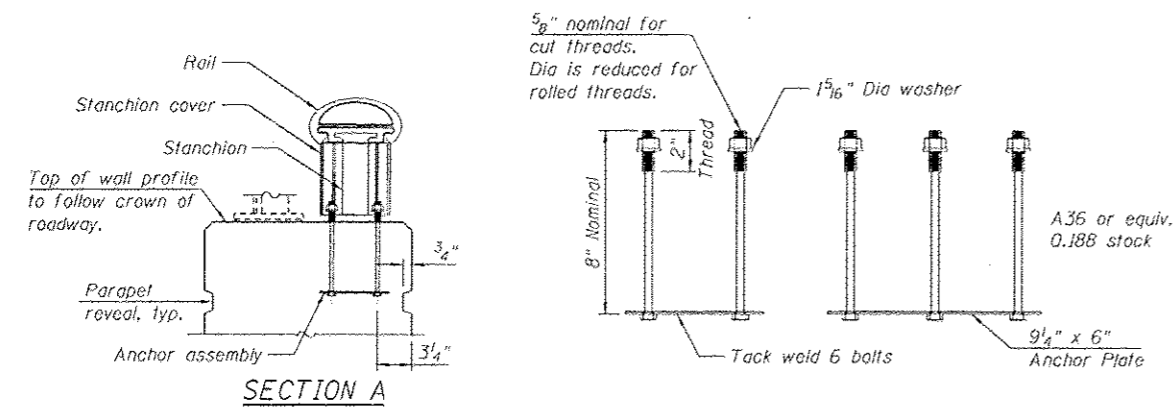


SECTION A

ELEVATION

STANCHION

TYPICAL CHICAGO PARAPET DETAIL



SECTION A

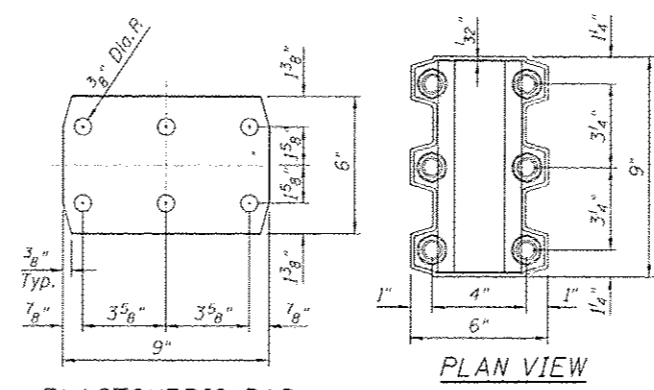
ANCHOR ASSEMBLY

NOTES:

- All fasteners to meet, or exceed, A-307 strength requirements.
- Galvanize per A-153 after fabrication.
- The size and position of parapet reinforcing must be consistent with capture of the anchor assembly. See structural drawings for rebar details.

BILL OF MATERIAL

Item	Unit	Total
Decorative Railing Parapet Mounted	FOOT	6.39



DETAIL 1

PLAN VIEW

ELEVATION

ELASTOMERIC PAD

NOTES:

- Elastomeric pad for stanchion made from 1/16" thick stock.
- One required per stanchion.

STANCHION COVER

NOTES:

- Cover is shown superimposed over stanchion with anchors in place.
- The stanchion cover is a non-structural element, serving an aesthetic function. It rests on the flange of the stanchion, without fasteners and is captured in place by the rail and stanchion.

NOTES:

- When walls without rail are adjacent to Chicago wall with rail, their traffic face, or the terminus of their traffic face, must be in the same plane as Chicago wall with rail.
- Rustication may vary at terminal ends and is subject to site conditions and site approval. In all other situations, the middle 2.5" x 1.5" rustication is aligned with the center of the stanchion.
- Wall details above show that portion of the wall above the gutter break, the substructure is not shown. Note that substructure(s) depth variations could significantly alter the required top of wall profile.
- Field cutting of rail elements is acceptable. The cut edge will no longer be anodized. Saw cut only, flame cut not allowed.
- End caps shall be used at all rail terminals.
- Railing system to be produced using extruded aluminum that can be clear anodized.
- Alloy selection is based upon the above color requirement and the engineering sufficiency analysis which must be supplied by the contractor.
- Physical appearance to be equal to "Valentine Urban Systems - Chicago wall with rail".
- For panel layout, overall stanchion location, spacing and details, see Sheets 271B and 271C of Roadway plans.

FILE PATH: C:\Users\j... Desktop\Drawings\Prints For The Dept\B1724-60W25-628-DecorativeRailing.dwg

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 HILLSDALE, IL 60122  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

016170\*\*60W25-S28-BridgeRailing.dwg  
 USER NAME: will.mardouas  
 PLOT SCALE: 8 1/2" / 1in.  
 PLOT DATE: 2/15/2013

DESIGNED - MR. LAG  
 DRAWN - MR. LAG  
 CHECKED - MAI, MI  
 DATE - 6/17/2013

REVISOR -  
 REVISION -  
 REVISION -  
 REVISION -

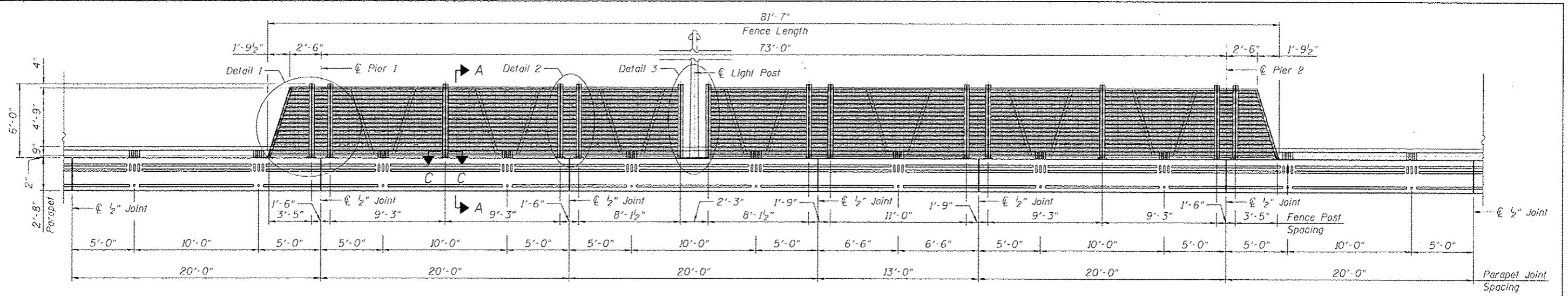
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DECORATIVE RAILING PARAPET MOUNTED DETAILS  
 STRUCTURE NO. 016-1709

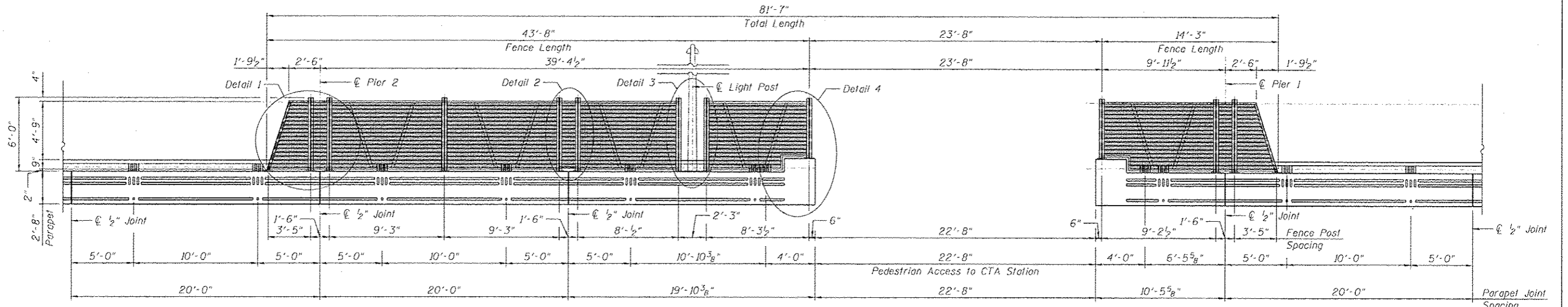
F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	164

SCALE: SHEET 51-20 OF 51 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT CONTRACT NO. 60W25

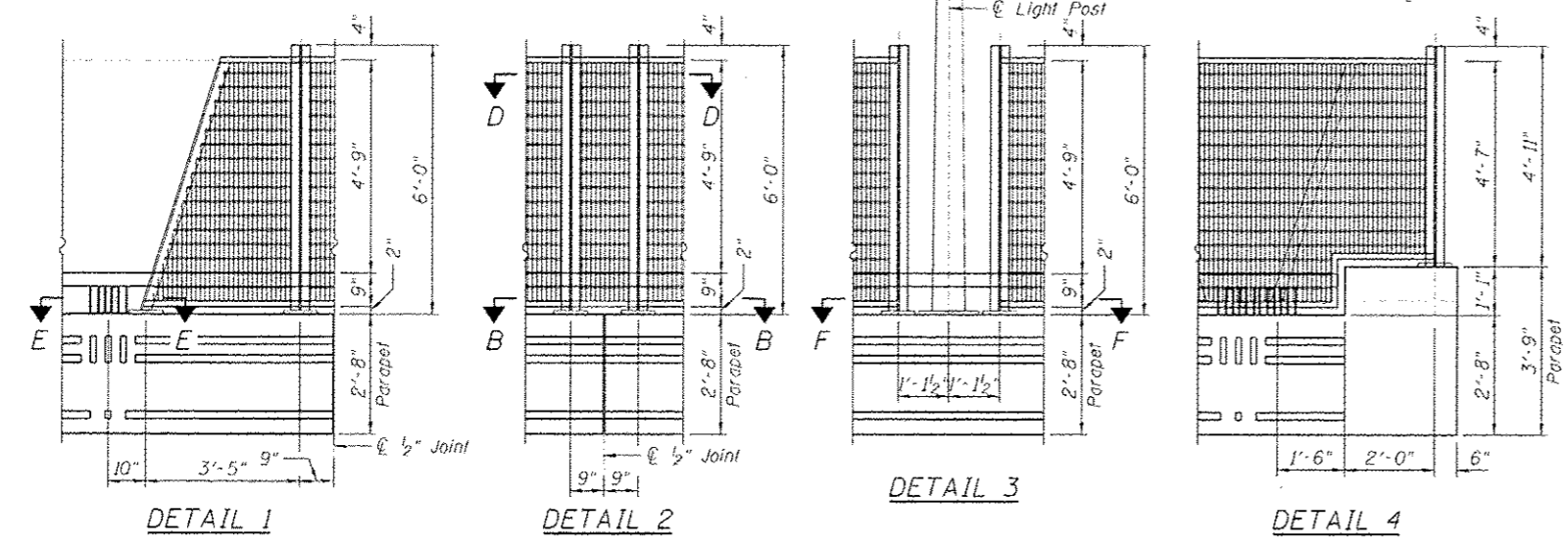




INSIDE ELEVATION OF WEST FENCE  
(Looking West)



INSIDE ELEVATION OF EAST FENCE  
(Looking East)



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<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN CORPORATION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 MELROSE, IL 60162 PHONE: (708) 236-0300 FAX: (708) 236-0301	8161781-60W25-S21a-FenceElev.dgn USER NAME: willmardavis PLOT SCALE: 4/8/8000 1" = 16' PLOT DATE: 7/15/2013	DESIGNED - MR. LAB DRAWN - MR. LAB CHECKED - MAI, MI DATE - 6/17/2013	REVISIONS 07/19/2013 MI, LAB REVISIONS REVISIONS REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE FENCE RAILING (SPECIAL) ELEVATIONS STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-00TR COUNTY COOK TOTAL SHEETS 317 SHEET NO. 166	CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
	SCALE: SHEET 51-21 OF 51 SHEETS STA. TO STA.		Entire sheet revised				

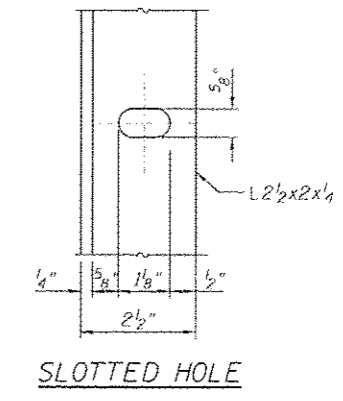
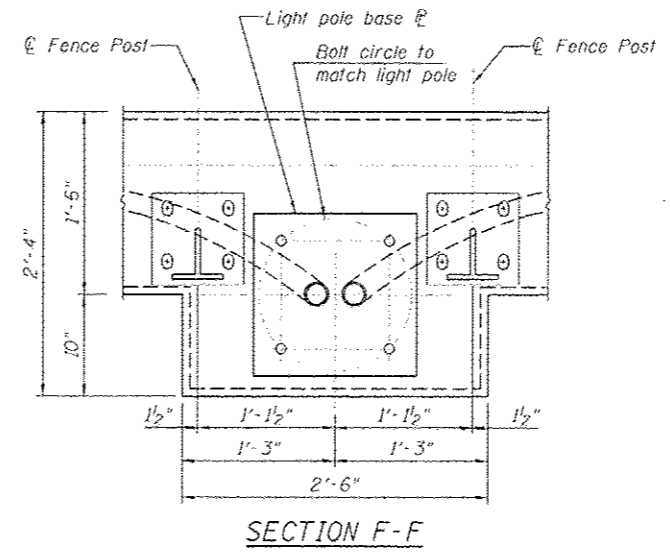
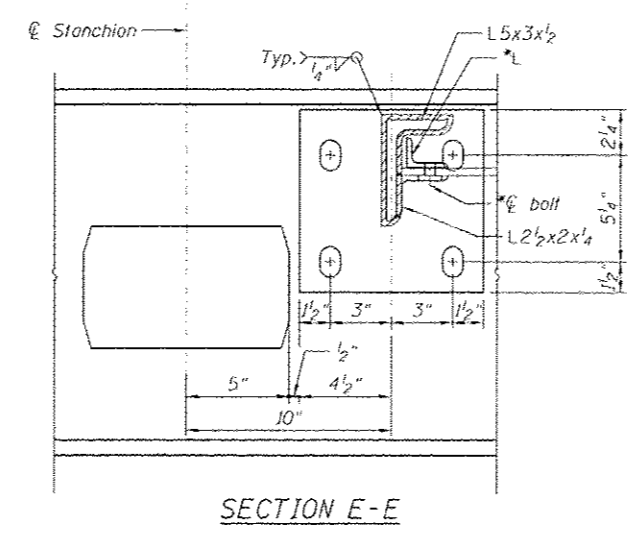
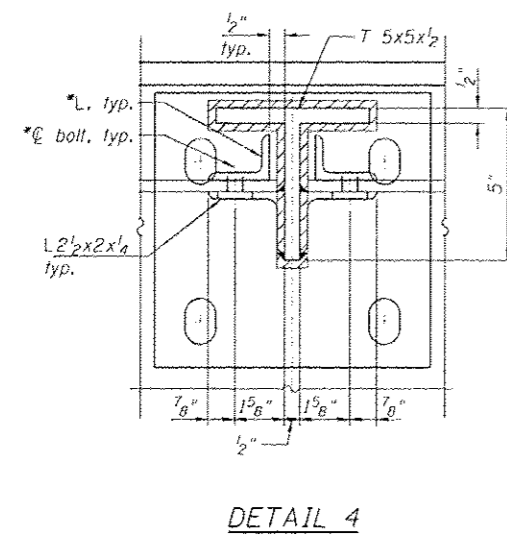
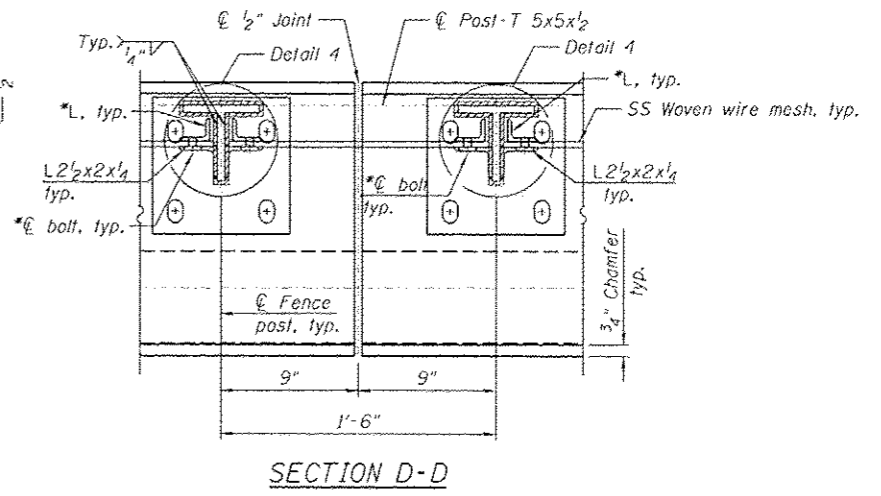
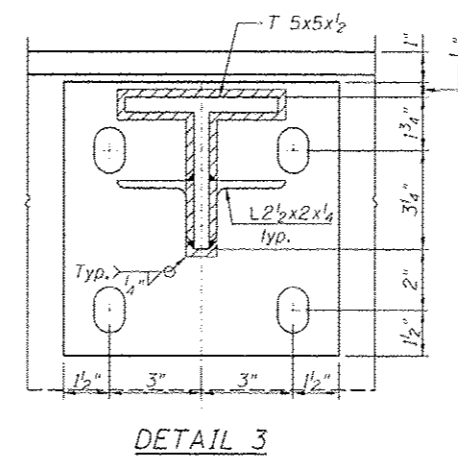
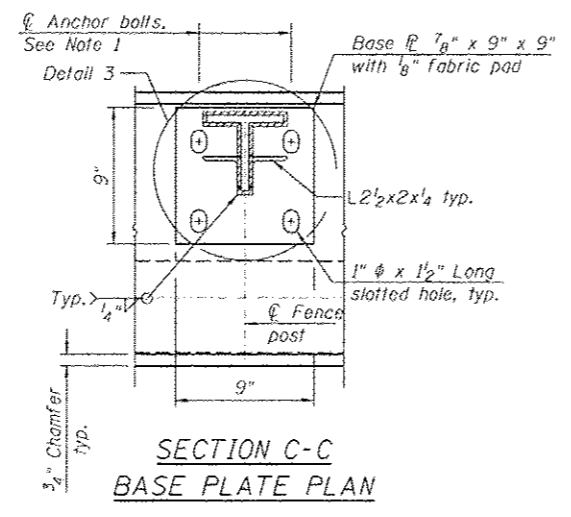
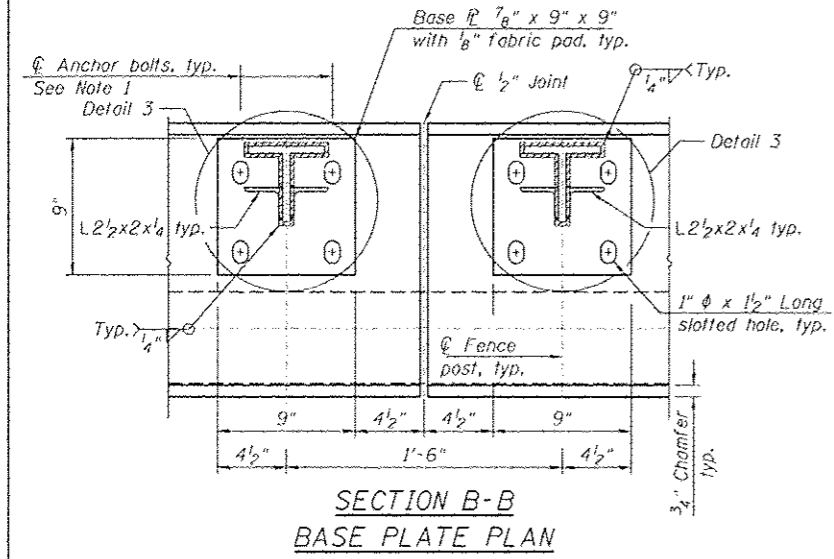
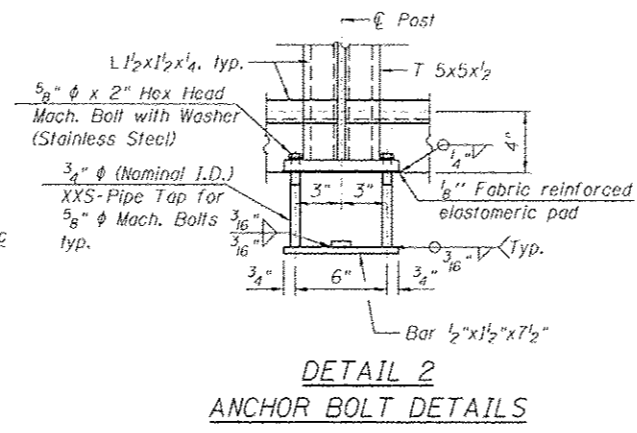
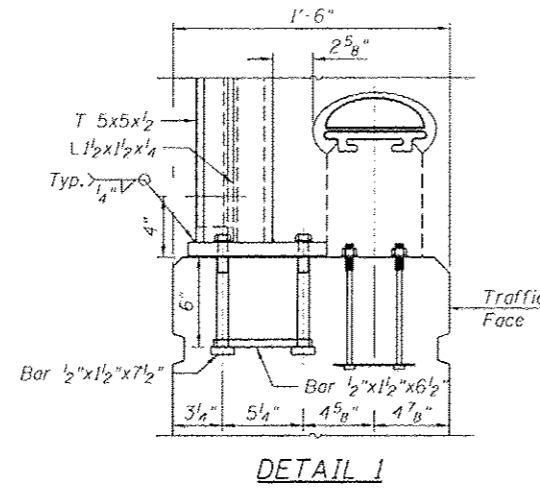
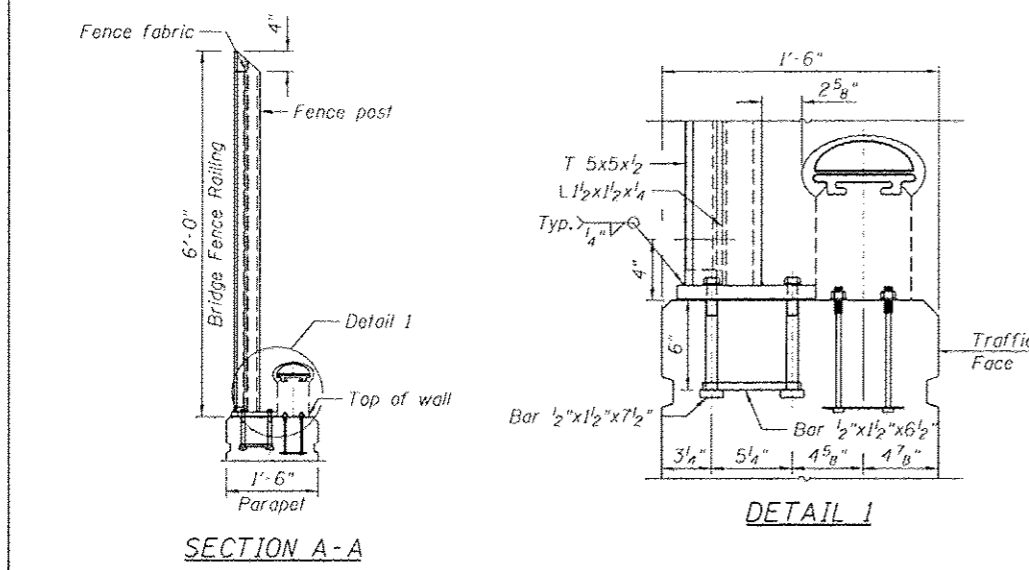
**BILL OF MATERIAL**

Item	Unit	Total
Bridge Fence Railing (Special)	FOOT	140

Note: All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

**NOTES:**

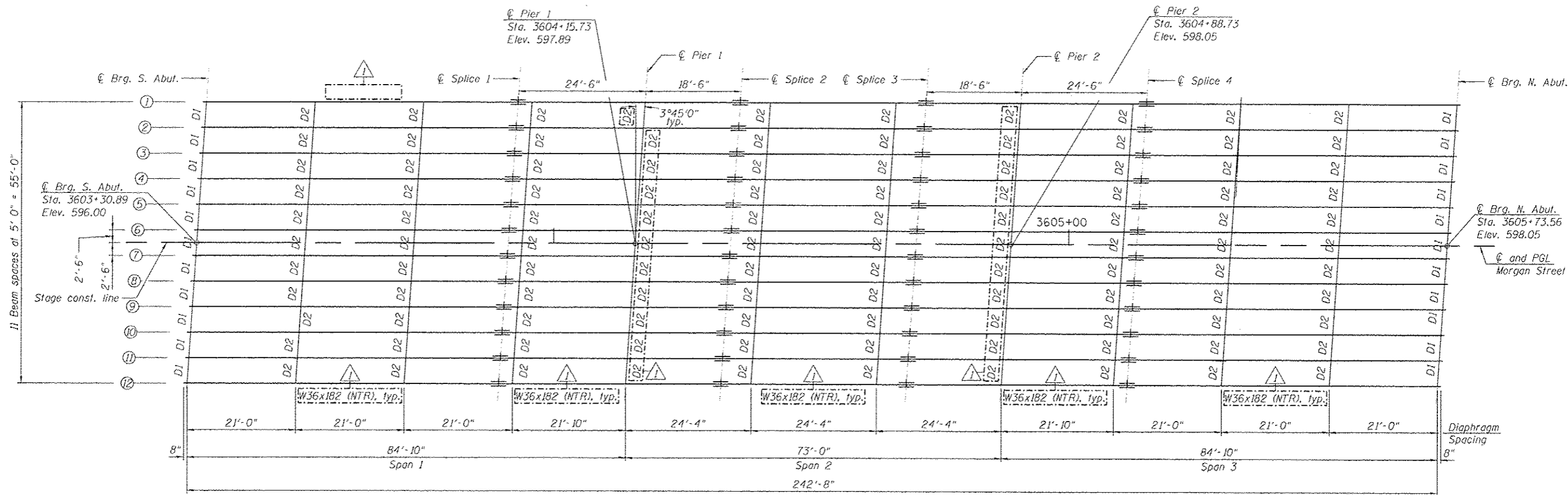
- In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.
  - Provide bolted connection with oversized slotted hole to allow for erection tolerance of mesh panel and movement at control joints. Spacing between posts may not be the same at bottom and top of frame due to a slight vertical curve at parapet top surface.
- \* Fence panels including fence mesh, angles, bracing, bolts and welds to be designed by fence manufacturer. See "Bridge Fence Railing (Special)" Special Provision.



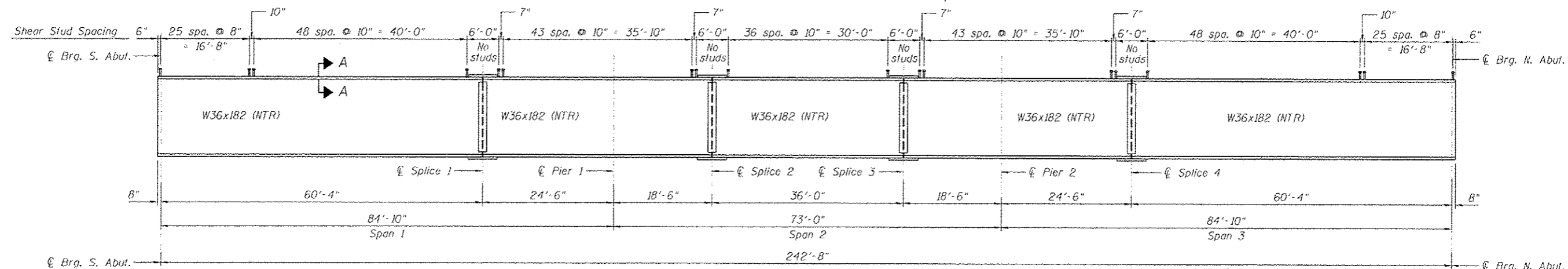
\*\*Number, spacing and size of slotted holes to be verified and designed by fence manufacturer. See "Bridge Fence Railing (Special)" Special Provision.

FILE PATH: C:\Users\m\OneDrive\Desktop\Prints For The Day\0161709-60W25-S21B-FenceDetails.dgn

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161709-60W25-S21B-FenceDetails.dgn USER NAME: will.manderson PLOT SCALE: 1/64000 1/1"=100' PLOT DATE: 7/15/2013	DESIGNED - MR. LAB DRAWN - MR. LAB CHECKED - MAI, MI DATE - 6/17/2013	REVISED - 07/19/2013 MI, LAP REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE FENCE RAILING (SPECIAL) DETAILS STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-00TR COUNTY COOK TOTAL SHEETS 317 SHEET NO. 165A CONTRACT NO. 60W25	SCALE: SHEET S1-21A OF 51 SHEETS, STA. TO STA. ILLINOIS FED. AID PROJECT
	Added sheet						



FRAMING PLAN



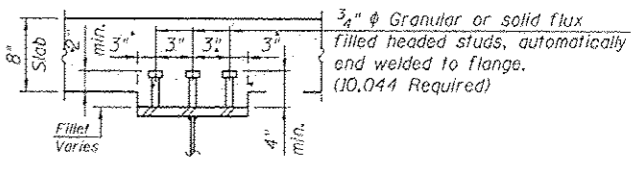
BEAM ELEVATION

TOP OF BEAM ELEVATIONS  
(for fabrication only)

Girder	Brig. S. Abut.	F.S. 1	Pier 1	F.S. 2	F.S. 3	Pier 2	F.S. 4	Brig. N. Abut.
1	594.97	596.72	596.80	596.87	597.01	596.93	596.85	594.35
2	594.96	596.72	596.79	596.87	597.01	596.93	596.66	594.36
3	595.03	596.79	596.87	596.94	597.09	597.02	596.74	594.45
4	595.09	596.87	596.95	597.02	597.17	597.10	596.83	594.55
5	595.15	596.97	597.02	597.09	597.24	597.18	596.91	594.64
6	595.22	597.01	597.10	597.17	597.32	597.26	597.00	594.73
7	595.20	597.01	597.10	597.17	597.32	597.26	597.01	594.75
8	595.11	596.93	597.02	597.09	597.24	597.19	596.93	594.68
9	595.02	596.84	596.94	597.01	597.17	597.11	596.86	594.62
10	594.93	596.76	596.86	596.93	597.09	597.04	596.79	594.55
11	594.84	596.68	596.78	596.85	597.01	596.96	596.72	594.49
12	594.82	596.68	596.78	596.85	597.01	596.96	596.73	594.50

NOTES:

- For diaphragms details, see Sheet S1-24.
- F.S. denotes girder field splice.
- All structural steel shall be hot-dipped galvanized. Cost included with Furnishing and Erecting Structural Steel.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



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0161709-60W25-S22-FramingPlan.dgn  
DESIGNED - ML, LAB, MMW  
DRAWN - LAB, MMW  
CHECKED - MAL, ML, JJS  
DATE - 6/17/2013  
REVISIONS:  
01/19/2013 ML, JJS  
REVISION -  
REVISION -  
REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND BEAM ELEVATION  
STRUCTURE NO. 016-1709  
SCALE: SHEET S1-22 OF 51 SHEETS TO STA.

F.A.I. RTE. 96/9A/290	SECTION 2013-007R	COUNTY COCK	TOTAL SHEETS 317	SHEET NO. 166
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

INTERIOR GIRDER MOMENT TABLE - BEAMS 2-11						
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.6 Span 3
$I_s$	(in <sup>4</sup> )	11,300	11,300	11,300	11,300	11,300
$I_c(n)$	(in <sup>4</sup> )	24,701	-	24,701	-	24,701
$I_c(3n)$	(in <sup>4</sup> )	17,940	-	17,940	-	17,940
$I_c(cr)$	(in <sup>4</sup> )	-	13,725	-	13,725	-
$S_s$	(in <sup>3</sup> )	623	623	623	623	623
$S_c(n)$	(in <sup>3</sup> )	846	-	846	-	846
$S_c(3n)$	(in <sup>3</sup> )	758	-	758	-	758
$S_c(cr)$	(in <sup>3</sup> )	-	638	-	638	-
DC1	(k/ft)	0.727	0.727	0.727	0.727	0.727
M <sub>DC1</sub>	(k)	444	464	22	464	444
DC2	(k/ft)	0.541	0.541	0.541	0.541	0.541
M <sub>DC2</sub>	(k)	329	348	13	348	329
DW	(k/ft)	0.200	0.200	0.200	0.200	0.200
M <sub>DW</sub>	(k)	121	129	5	129	121
M <sub>ℓ + IM</sub>	(k)	825	751	573	751	825
M <sub>u</sub> (Strength I)	(k)	2,592	2,523	1,054	2,523	2,592
φ <sub>r</sub> M <sub>n</sub>	(k)	4,122	3,033	4,122	3,033	4,122
f <sub>s</sub> DC1	(ksi)	8.55	8.94	0.42	8.94	8.55
f <sub>s</sub> DC2	(ksi)	5.21	6.55	0.21	6.55	5.21
f <sub>s</sub> DW	(ksi)	1.92	2.43	0.08	2.43	1.92
f <sub>s</sub> (ℓ + IM)	(ksi)	11.70	14.13	8.13	14.13	11.70
f <sub>s</sub> (Service II)	(ksi)	30.89	36.29	11.28	36.29	30.89
0.95R <sub>n</sub> F <sub>y</sub>	(ksi)	47.50	47.50	47.50	47.50	47.50
f <sub>s</sub> (Total)(Strength I)	(ksi)	-	-	-	-	-
φ <sub>r</sub> F <sub>n</sub>	(ksi)	-	-	-	-	-
V <sub>r</sub>	(k)	27.88	-	27.62	-	29.53

\* For Beams 5 thru 8, the load due to ComEd ductbanks is 105 pounds per linear foot.  
For Beams 11 and 12, the load due to the City of Chicago ductbank is 35 pounds per linear foot.

INTERIOR GIRDER REACTION TABLE - BEAMS 2-11					
		S. Abut.	Pier 1	Pier 2	N. Abut.
R <sub>DC1</sub>	(k)	26.12	62.97	62.97	26.12
R <sub>DC2</sub>	(k)	18.88	46.88	46.88	18.88
R <sub>DW</sub>	(k)	6.97	17.30	17.30	6.97
R <sub>ℓ + IM</sub>	(k)	64.39	100.43	100.43	64.39
R <sub>Total</sub>	(k)	116.36	227.58	227.58	116.36

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M<sub>ℓ + IM</sub>: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).

M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>ℓ + IM</sub>

φ<sub>r</sub>M<sub>n</sub>: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f<sub>s</sub> DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
M<sub>DC1</sub> / S<sub>nc</sub>

f<sub>s</sub> DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
M<sub>DC2</sub> / S<sub>c(3n)</sub> or M<sub>DC2</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
M<sub>DW</sub> / S<sub>c(3n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
M<sub>ℓ + IM</sub> / S<sub>c(n)</sub> or M<sub>DW</sub> / S<sub>c(cr)</sub> as applicable.

f<sub>s</sub> (Service II): Sum of stresses as computed below (ksi).  
f<sub>sDC1</sub> + f<sub>sDC2</sub> + f<sub>sDW</sub> + 1.3 f<sub>s</sub> (ℓ + IM)

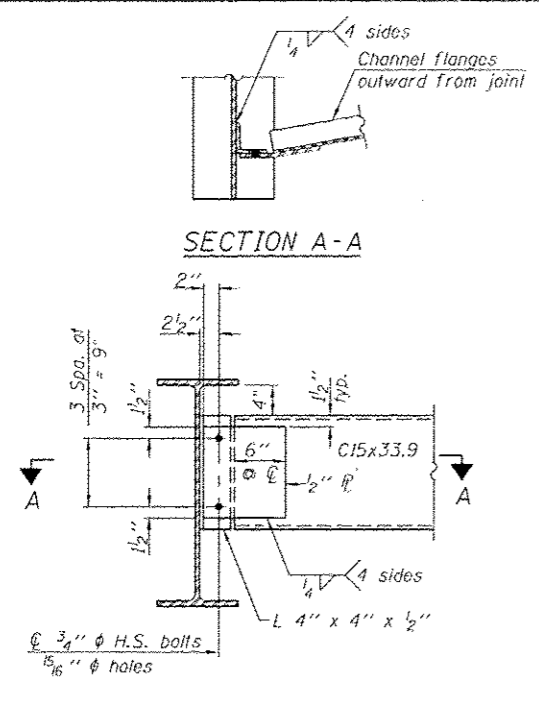
0.95R<sub>n</sub>F<sub>y</sub>f: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f<sub>s</sub> (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).  
1.25 (f<sub>sDC1</sub> + f<sub>sDC2</sub>) + 1.5 f<sub>sDW</sub> + 1.75 f<sub>s</sub> (ℓ + IM)

φ<sub>r</sub>F<sub>n</sub>: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

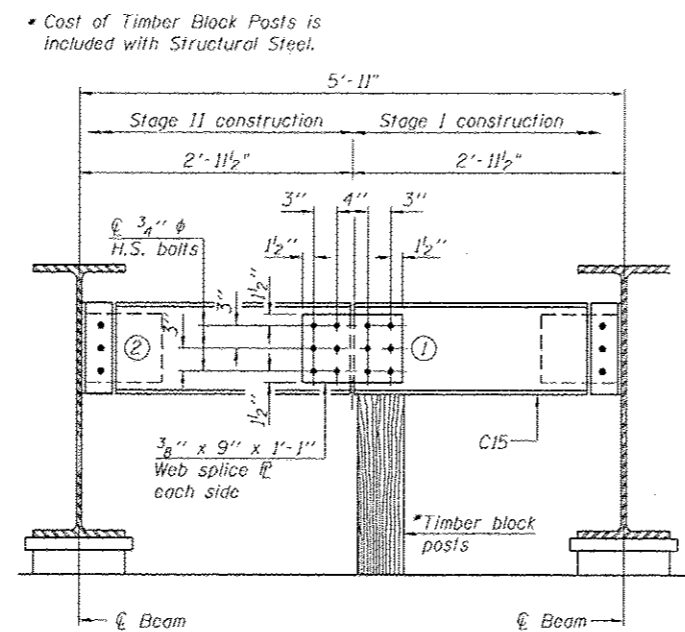
V<sub>r</sub>: Maximum factored shear range in span computed according to Article 6.10.10.

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161709-60W25-023-Girder-Reaction.tbl.dgn USER NAME: c_johnson@hbm.com PLOT SCALE: 1/8"=1'-0" PLOT DATE: 7/15/2013	DESIGNED - MI, LAG, MMW DRAWN - LAG, MMW CHECKED - MAI, MI, JJS DATE - 6/17/2013	REVISION - 01/19/2013 MI, JJS REVISION - REVISION - REVISION -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GIRDER MOMENT AND REACTION TABLES STRUCTURE NO. 016-1709	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 167 CONTRACT NO. 60W25	SCALE: SHEET 51-23 OF 51 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT
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**END DIAPHRAGM**

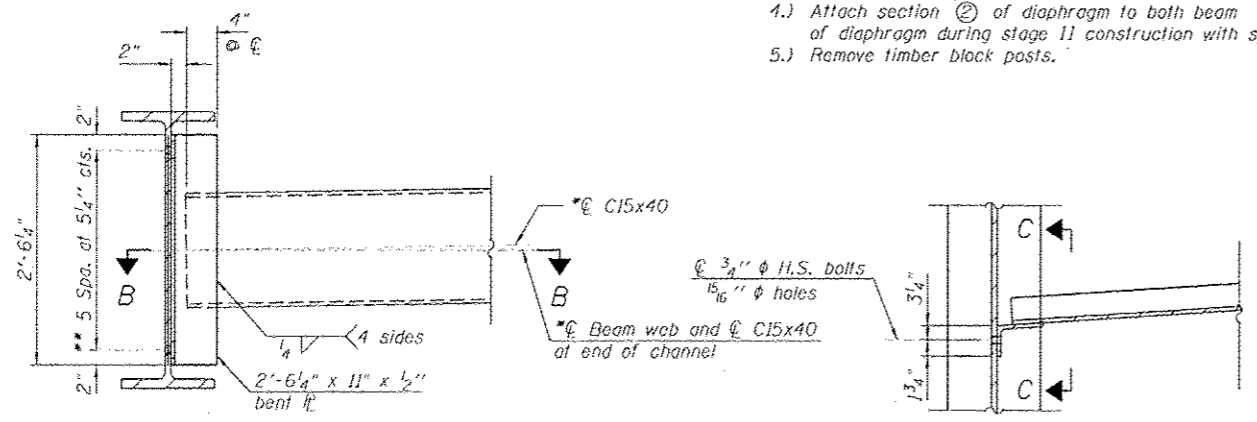
Note: (22 Required)  
Two hardened washers required for each set of oversized holes.



**END DIAPHRAGM**

**END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE**

- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to beam
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.

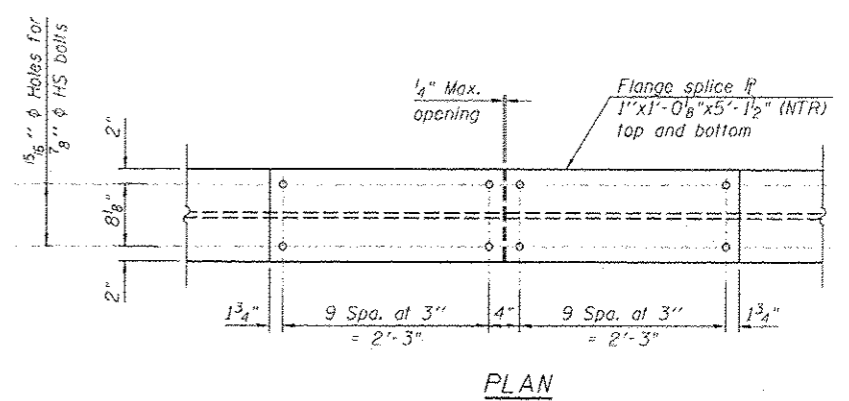


**INTERIOR DIAPHRAGM**

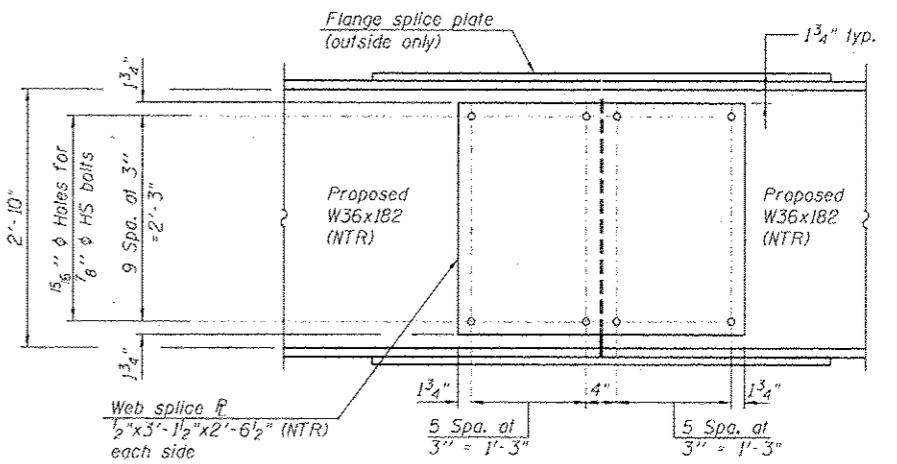
(110 Required)

**SECTION B-B**

Note:  
Two hardened washers required for each set of oversized holes.  
\*Alternate channel C15x50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.  
\*\*3/4 inch H.S. bolts, 1 5/16 inch holes.



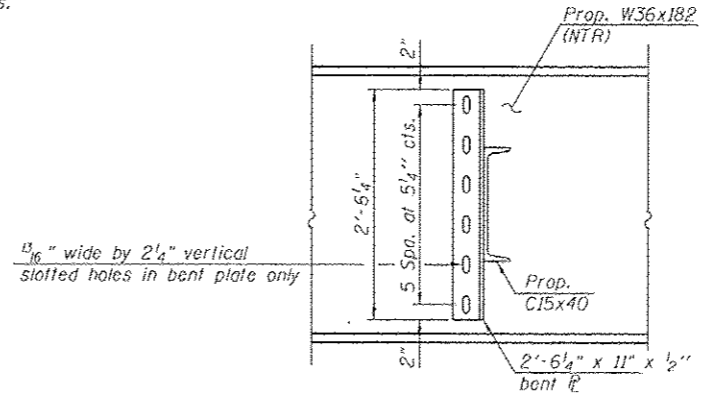
**PLAN**



**ELEVATION**

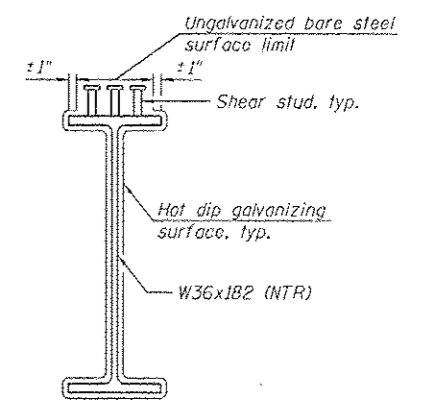
**FIELD SPLICE DETAIL**

(48 Required)



**SECTION C-C**

At Girder 6 only



**STEEL BEAM GALVANIZING LIMIT**

**SUGGESTED SEQUENCE OF CONSTRUCTION FOR INTERIOR DIAPHRAGMS AT STAGE CONSTRUCTION**

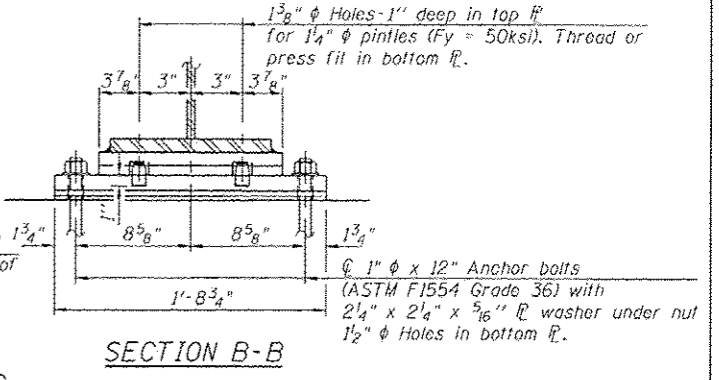
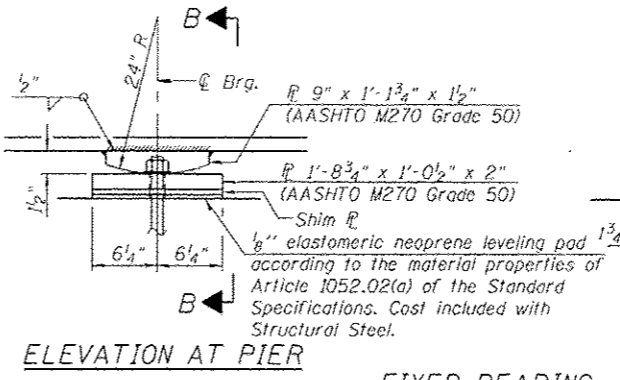
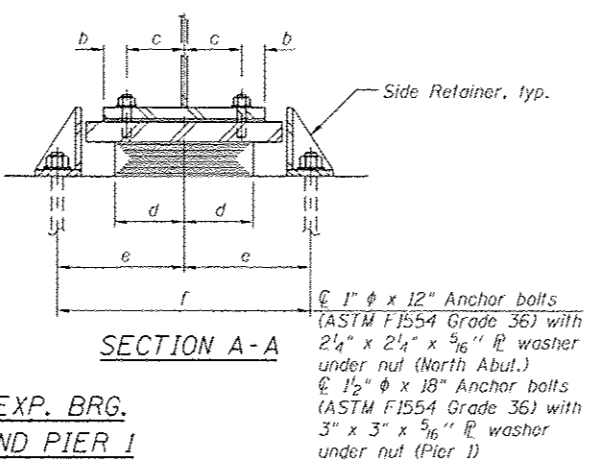
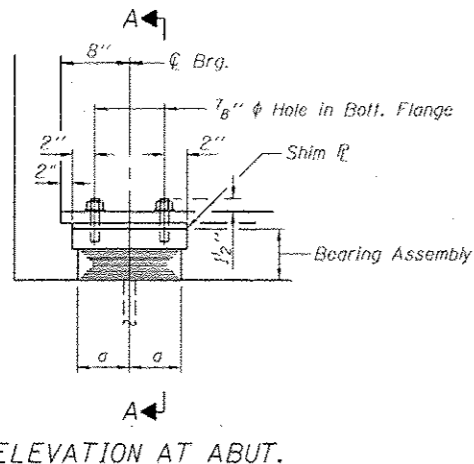
1. Prior to Stage II deck work, connect diaphragm to Girder 7. Bolts in slots of Girder 6 shall be finger tight until the second stage pour is complete.
2. Set slab forms and place reinforcement.
3. Place Stage II concrete slab. As Girder 6 deflects, connect diaphragm to girder.

**NOTE:**  
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

H:\Projects\11\11061713\11061713-25-StructSteelDetail.dgn  
 11/15/2013 10:54:52 AM  
 User: jll  
 Plot Date: 7/15/2013

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 WILMINGTON, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	01G1799-68W20-524-StructSteelDetail.dgn USER NAME: william.douss PLOT SCALE: 1/8"=1'-0" PLOT DATE: 7/15/2013	DESIGNED - MI, LAD, MMW DRAWN - LAB, MMW CHECKED - MAI, MI, JJS DATE - 6/17/2013	REVISIONS: 01/19/2015 MI, JJS REVISIONS: REVISIONS: REVISIONS:	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL STEEL DETAILS</b> <b>STRUCTURE NO. 016-1709</b>	F.A.I. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 168 CONTRACT NO. 60W25	SCALE: SHEET S1-24 OF 51 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
	Entire sheet revised							
	Note: Two hardened washers required for each set of oversized holes.							
	Note: *Alternate channel C15x50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.							
	Note: **3/4 inch H.S. bolts, 1 5/16 inch holes.							





**TYPE I ELASTOMERIC EXP. BRG.  
AT NORTH ABUTMENT AND PIER 1**

**FIXED BEARING  
AT PIER 2**

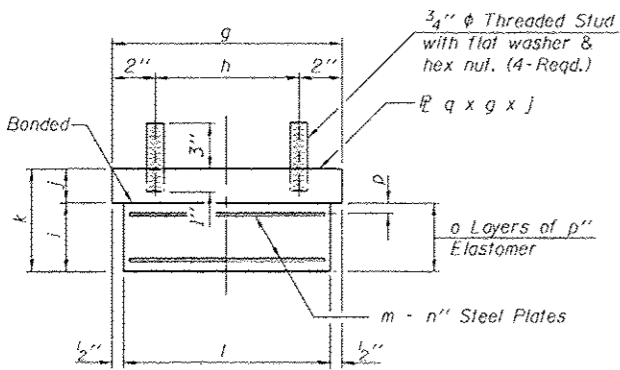
- NOTES:
1. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
  2. Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
  3. Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
  4. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
  5. Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
  6. Cost of fixed bearings shall be included with Furnishing and Erecting Structural Steel.
  7. All structural steel included in Bearing Assemblies shall be hot dipped galvanized. Cost included with Furnishing and Erecting Structural Steel or Elastomeric Bearing Assembly Type I.
  8. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
  9. All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
  10. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. See Sheet S1-26 for shim plate table.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24
Anchor Bolts, 1"	Each	48
Anchor Bolts, 1/2"	Each	24

**BEARING DIMENSION TABLE**

Location	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
N. Abut.	5 1/2"	2"	4"	8"	11 1/4"	1'-10 1/2"	1'-0"	8"	3 5/8"	1 1/8"	5 1/2"	11"	5"	1 1/8"	6"	1 1/2"	1'-6"	5 1/2"
Pier 1	7"	2"	4"	11"	1'-2 1/8"	2'-5 3/4"	1'-3"	11"	2 1/16"	2 3/4"	5 3/8"	1'-2"	2"	1 1/8"	3"	1 1/8"	2'-0"	5 1/2"



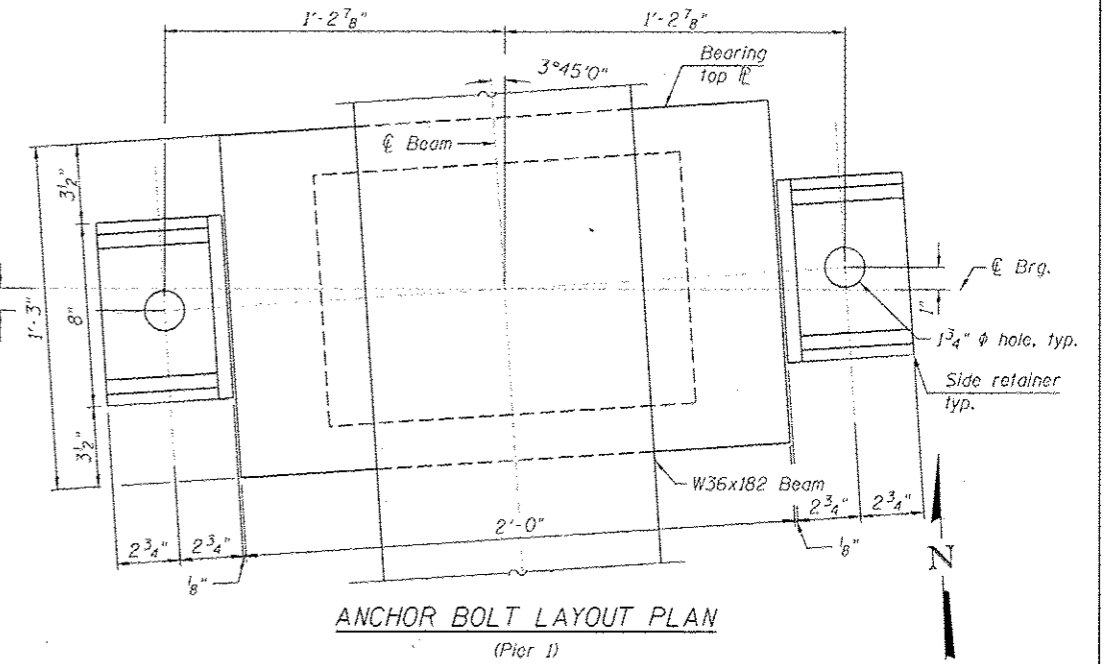
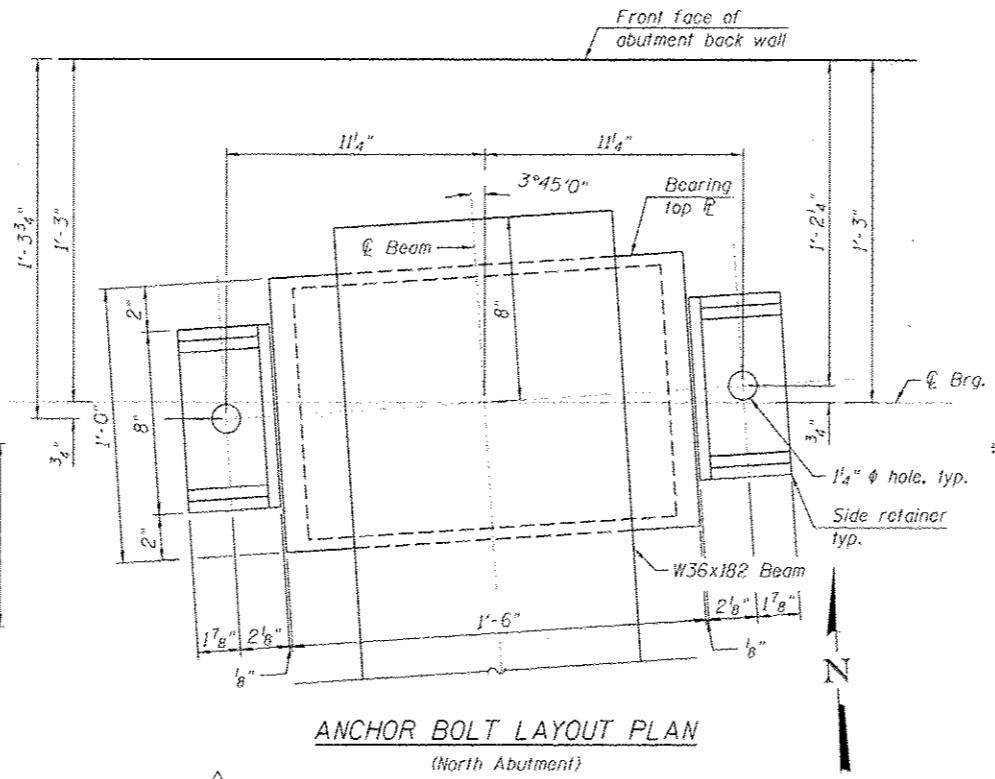
Note:  
Shim plates shall not be placed under Bearing Assembly.

**SIDE RETAINER AT NORTH ABUTMENT**

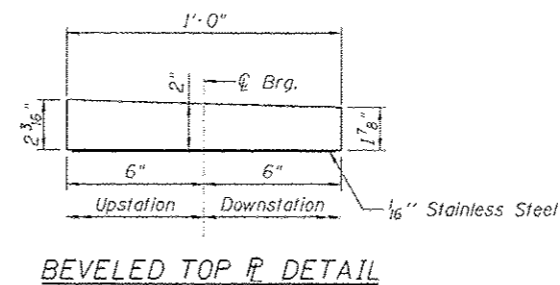
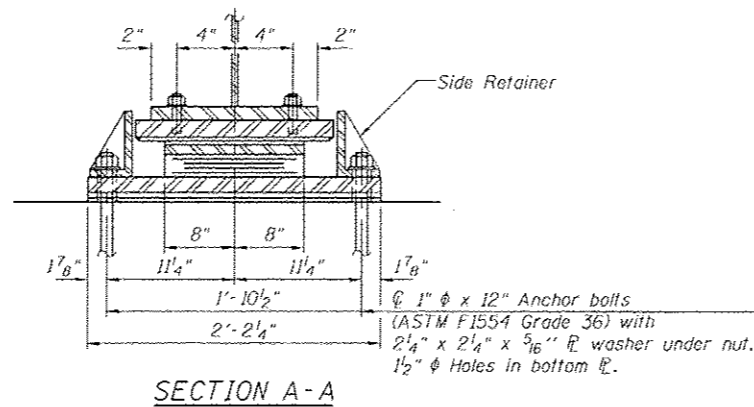
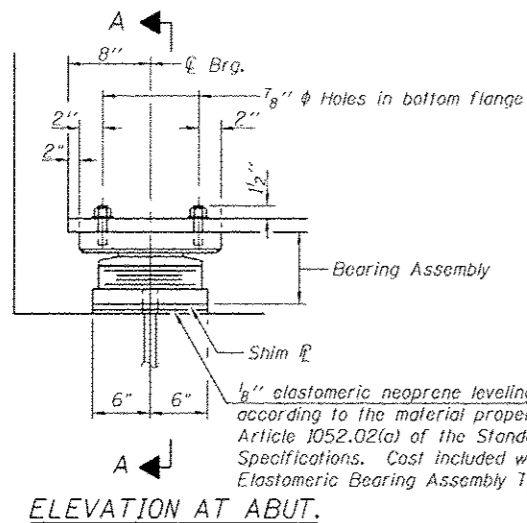
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

**SIDE RETAINER AT PIER 1**

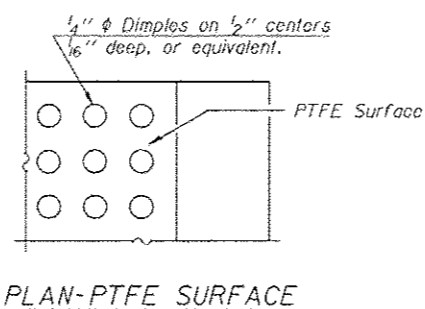
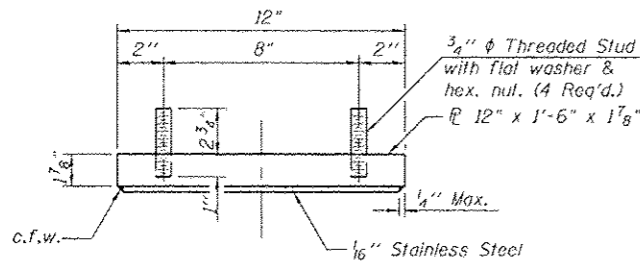
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



FILE PATH: C:\Users\jll\OneDrive\Desktop\Projects For The Day\PROJECTS\60W25-525-Bearing.dwg

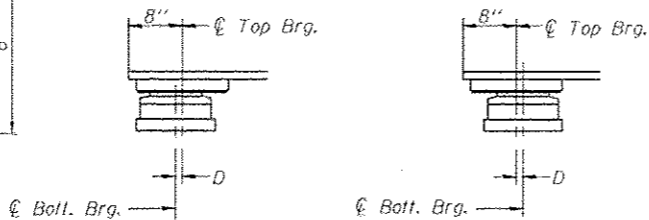
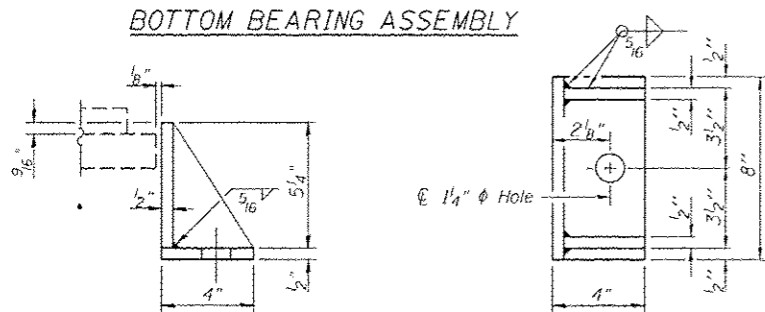
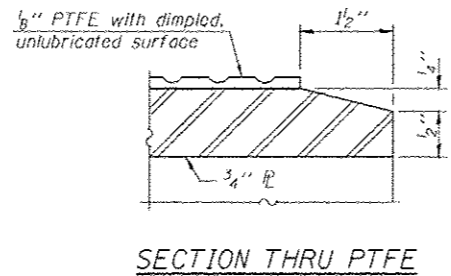
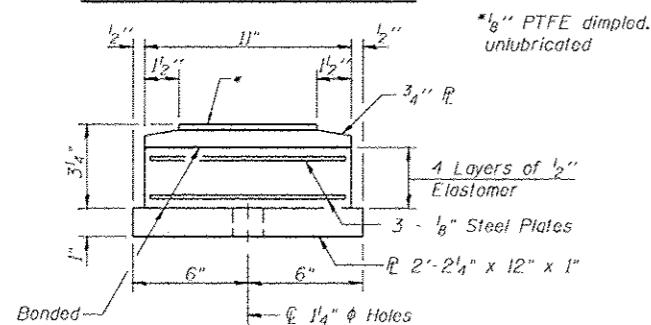


**TYPE II ELASTOMERIC EXP. BRG. AT SOUTH ABUTMENT**



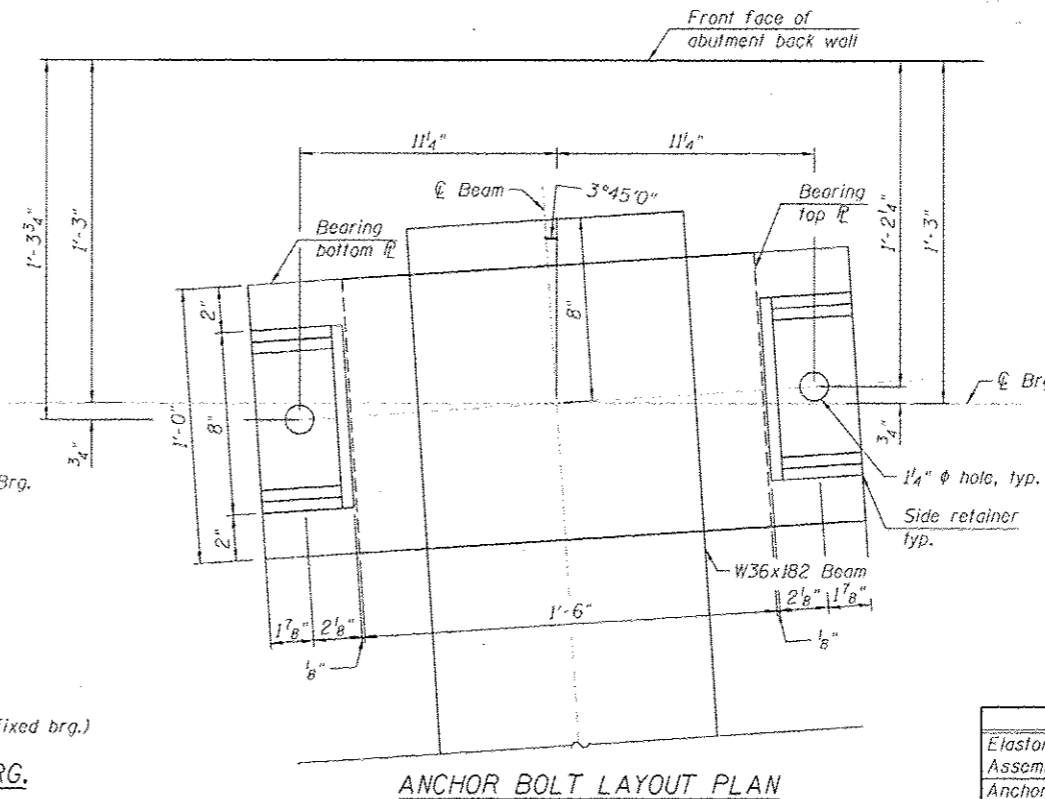
**SHIM PLATE TABLE**

BEAM	S. ABUT.	PIER 1	PIER 2	N. ABUT.
B1	-	-	-	1/4"
B2	-	1/8"	1/8"	-
B3	-	-	-	-
B4	-	-	-	-
B5	-	-	-	-
B6	1/8"	-	-	-
B7	-	-	-	1/8"
B8	-	-	-	-
B9	-	-	-	-
B10	-	-	-	-
B11	1/4"	1/8"	1/8"	-
B12	-	-	-	1/2"



**BELOW 50°F.** (Move bott. brg. away from fixed brg.)  
**ABOVE 50°F.** (Move bott. brg. toward fixed brg.)

**SETTING ANCHOR BOLTS AT EXP. BRG.**  
 $D = \frac{1}{8}''$  per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts, 1"	Each	24

**NOTES:**

- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.
- The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
- Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
- All structural steel included in Bearing Assemblies shall be hot dipped galvanized. Cost included with Elastomeric Bearing Assembly Type II.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

I-2E-2

1-27-12

**HBM**  
 ENGINEERING GROUP, LLC  
 4415 WEST HARRISON ST.  
 SUITE 231  
 MILLSIDE, IL 60162  
 PHONE: (708) 236-0990  
 FAX: (708) 236-0901

DESIGNED - LAB, JMC  
 DRAWN - LAB, JMC  
 CHECKED - MAI, M. JJS  
 DATE - 6/17/2013

REVISIONS  
 01/19/2013 NI, JJS  
 REVISED -  
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REVISIONS  
 01/19/2013 NI, JJS  
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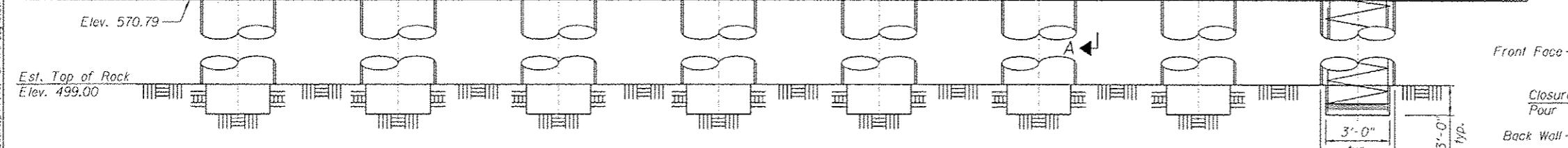
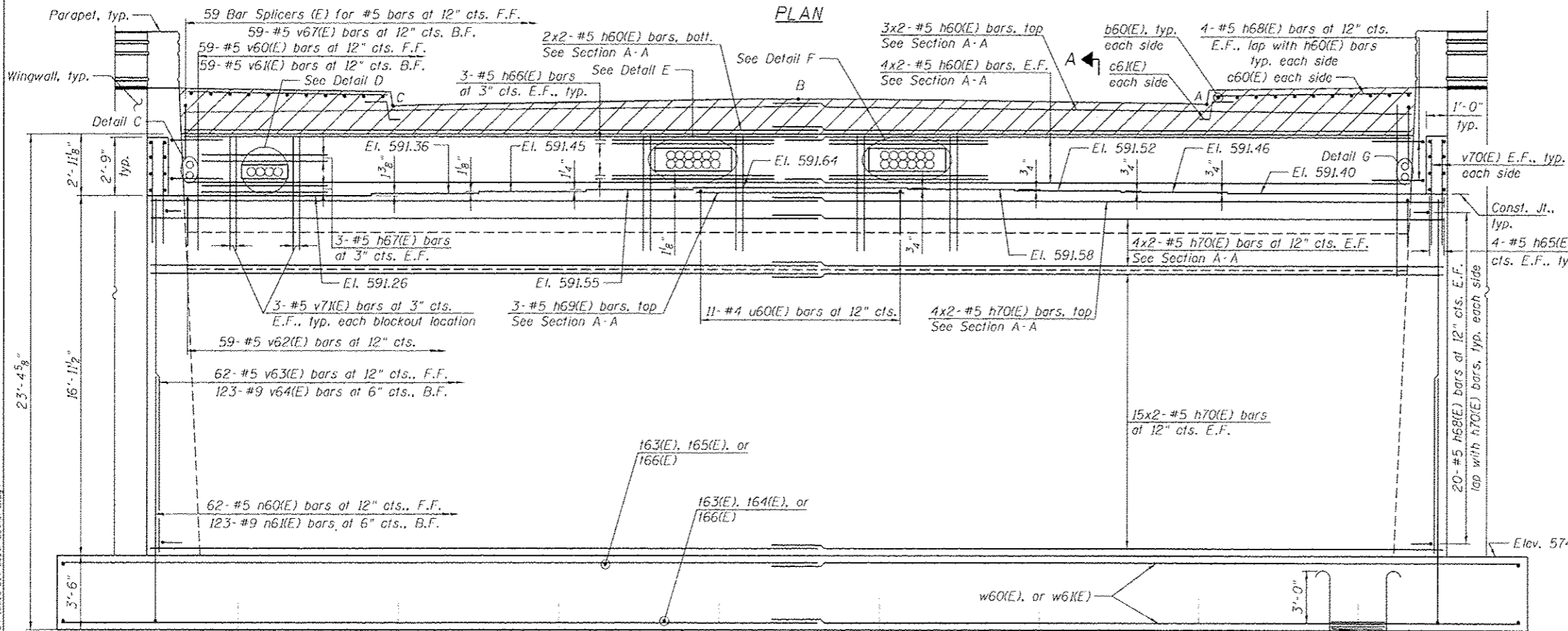
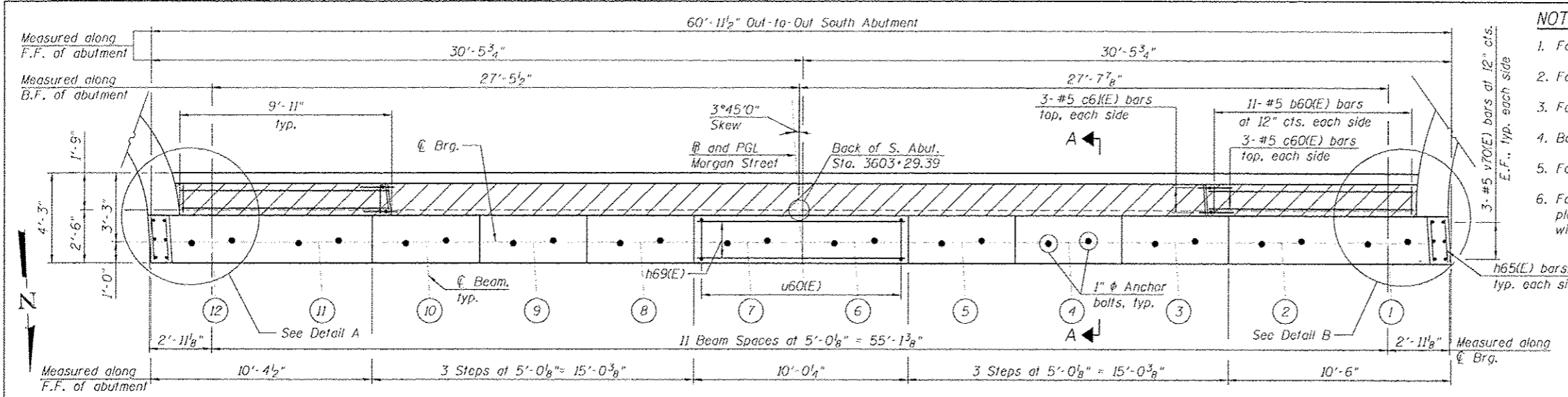
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

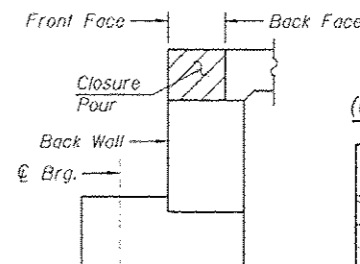
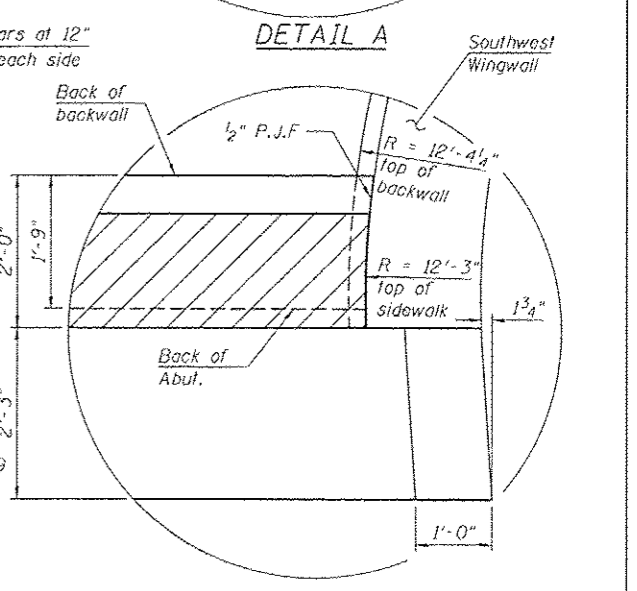
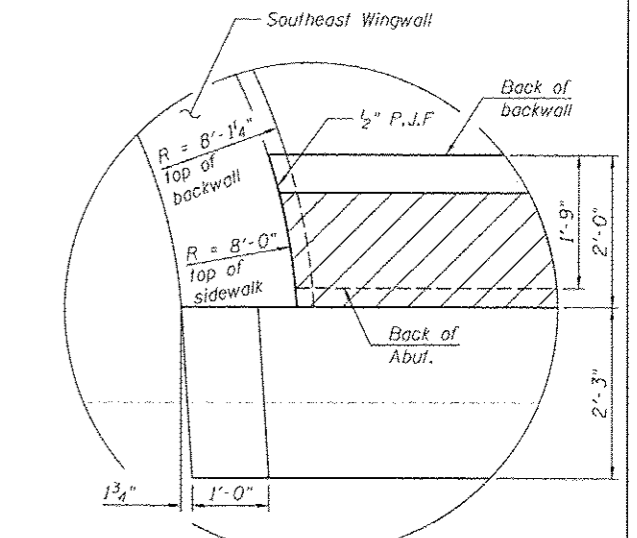
**ELASTOMERIC BEARING TYPE II  
 STRUCTURE NO. 016-1709**

SCALE: SHEET 51-26 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	170
CONTRACT NO. 60W25				
[ILLINOIS] FED. AID PROJECT				

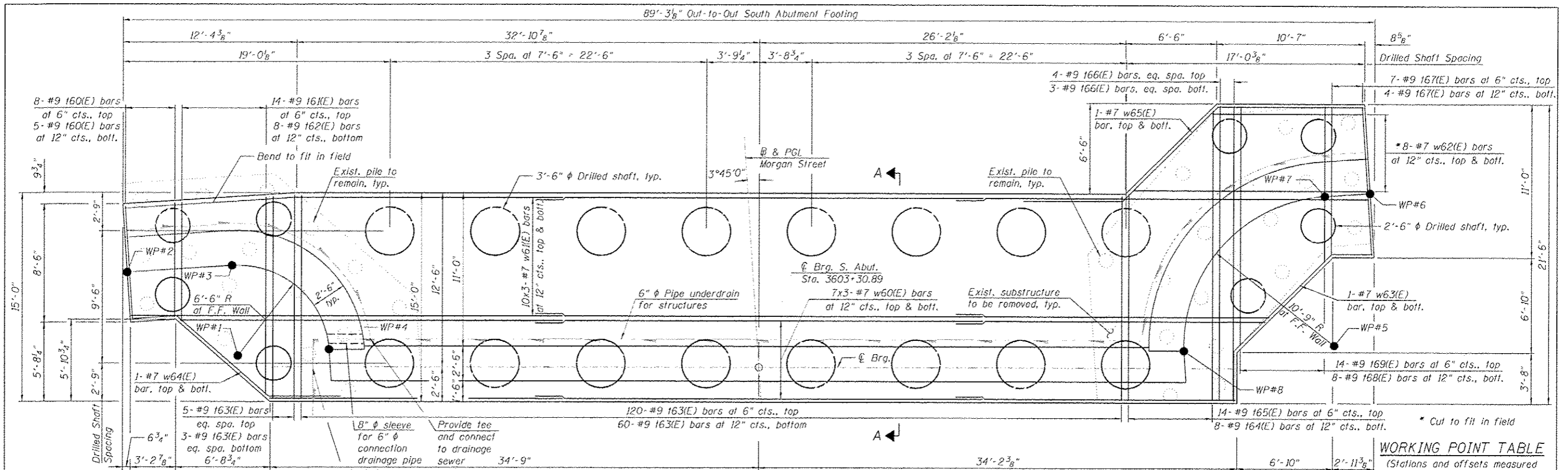


- NOTES:**
1. For Section A-A, see Sheet S1-29.
  2. For Details C, D, E, F and G, see Sheet S1-28.
  3. For wingwall reinforcement and details, see Sheet S1-30.
  4. Bars noted thus 4x2-#5 indicates 4 lines of bars with 2 bars per line.
  5. For anchor bolt layout plan, see Sheet S1-26.
  6. For location of ITS, lighting and City of Chicago conduits, see lighting plans. The Contractor shall coordinate the locations of ComEd conduits with the ComEd plans and ComEd Contractor.



**TOP OF BACKWALL (CLOSURE POUR) ELEVATIONS**

POINTS	FRONT FACE	BACK FACE
A - West Curb Line	595.70	595.64
B - Crown	595.94	595.88
C - East Curb Line	595.60	595.54

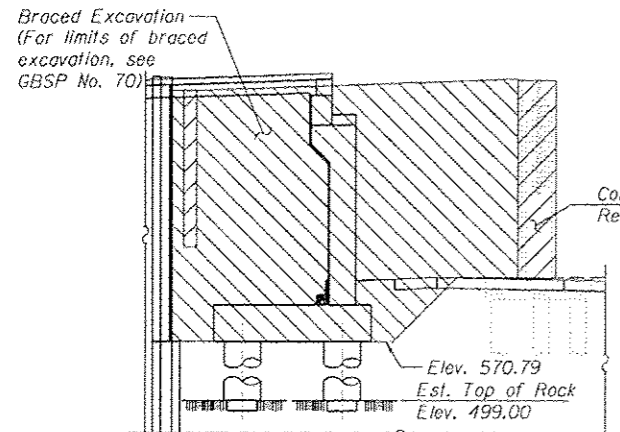


**WORKING POINT TABLE**  
(Stations and offsets measured from proposed E.B. 1-290)

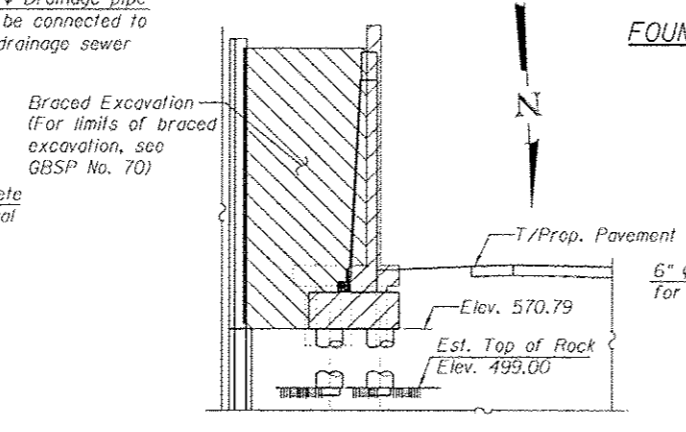
W.P.	Station	Offset
1	5139+87.52	46.16' Rt.
2	5139+95.31	51.75' Rt.
3	5139+87.89	52.18' Rt.
4	5139+81.09	46.10' Rt.
5	5139+09.95	46.47' Rt.
6	5139+07.51	57.43' Rt.
7	5139+10.71	57.20' Rt.
8	5139+20.61	46.02' Rt.

**LEGEND:**

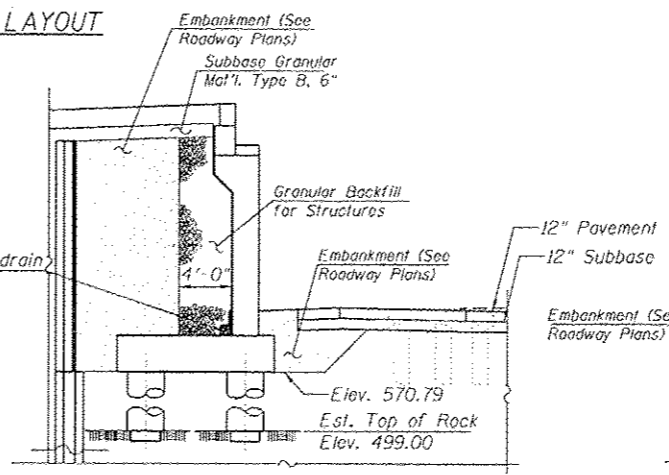
- Concrete Removal
- Braced Excavation
- Embankment
- Granular Backfill For Structures



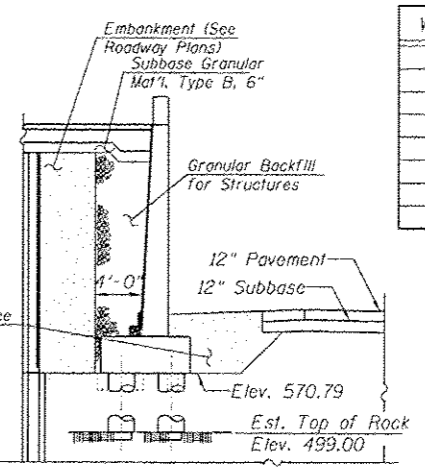
**BRACED EXCAVATION - ABUTMENT**



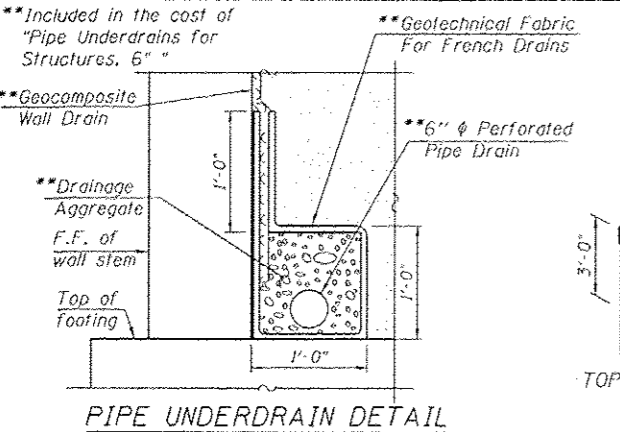
**BRACED EXCAVATION - WINGWALL**



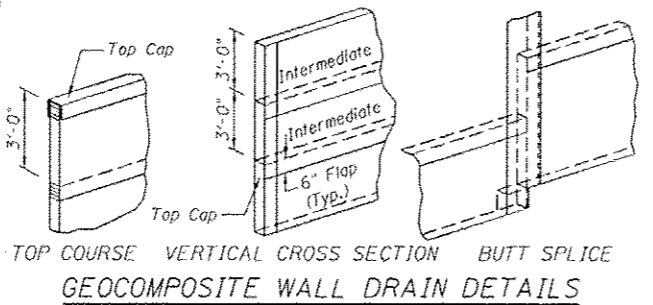
**BACKFILL - ABUTMENT**



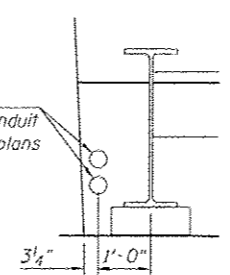
**BACKFILL - WINGWALL**



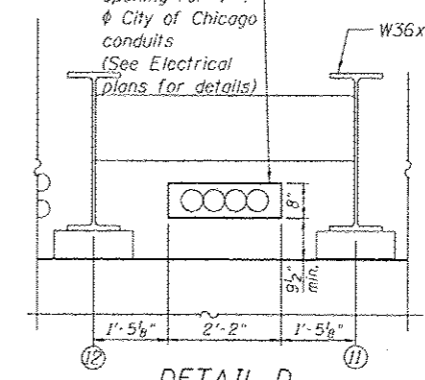
**PIPE UNDERDRAIN DETAIL**



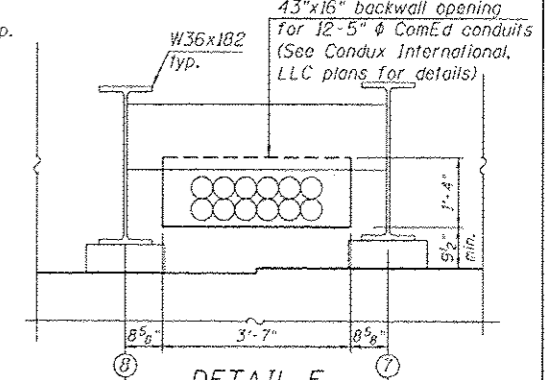
**GEOCOMPOSITE WALL DRAIN DETAILS**



**DETAIL C**  
(Detail G opposite hand)



**DETAIL D**

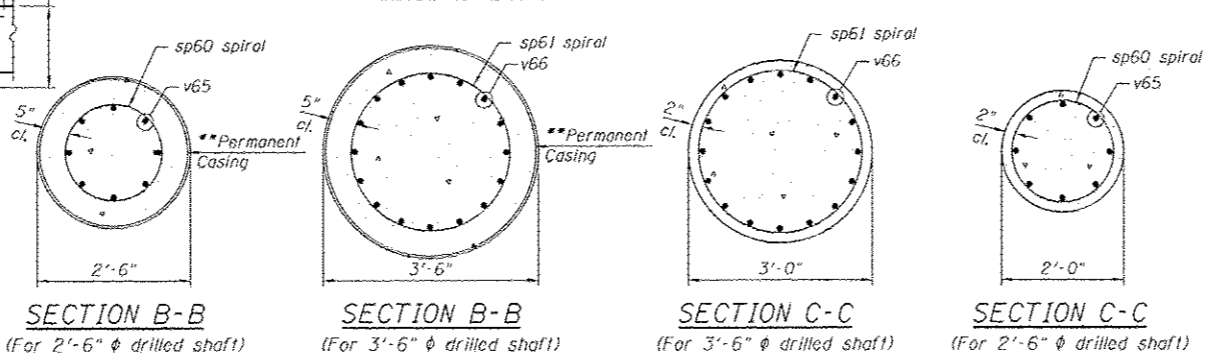
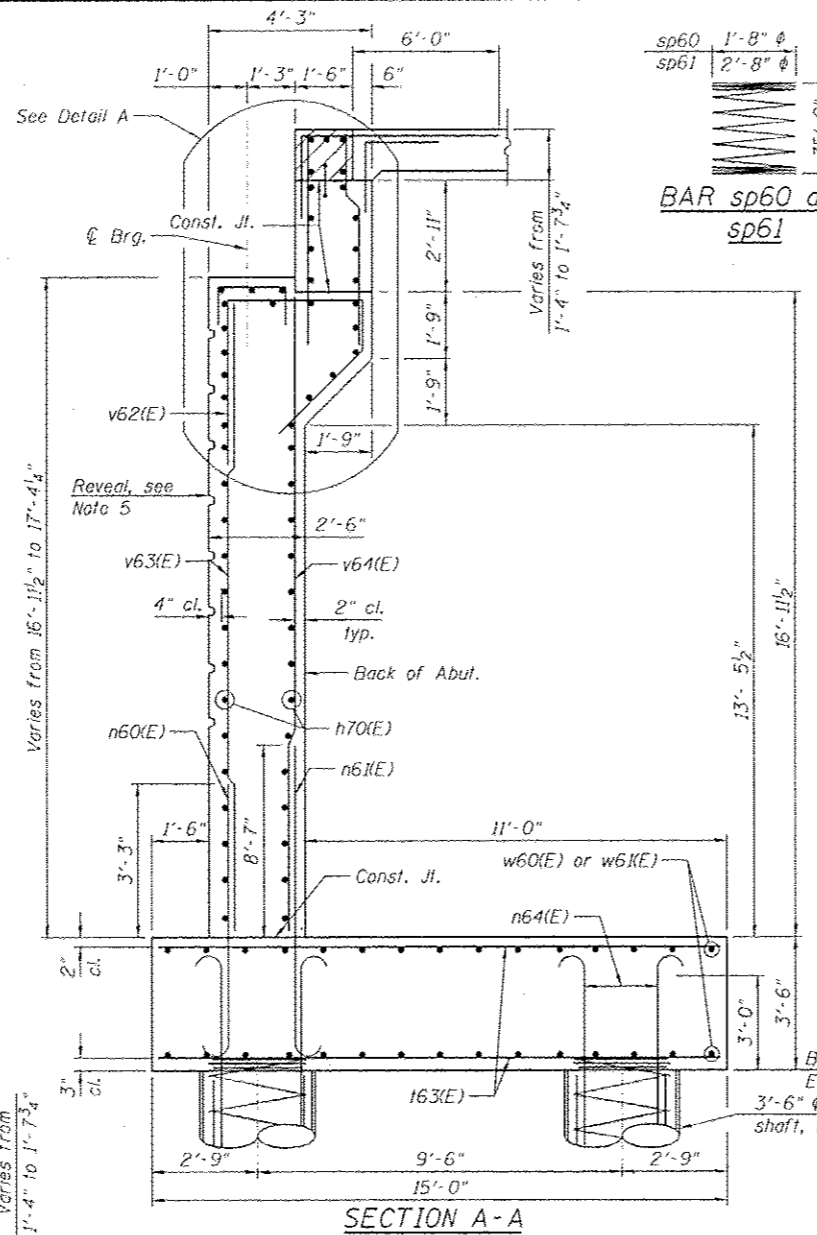
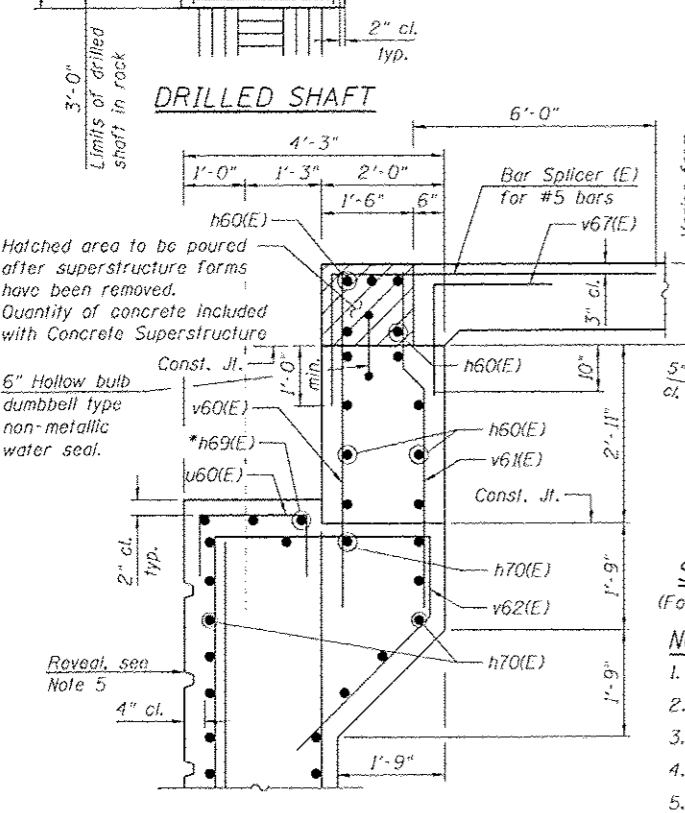
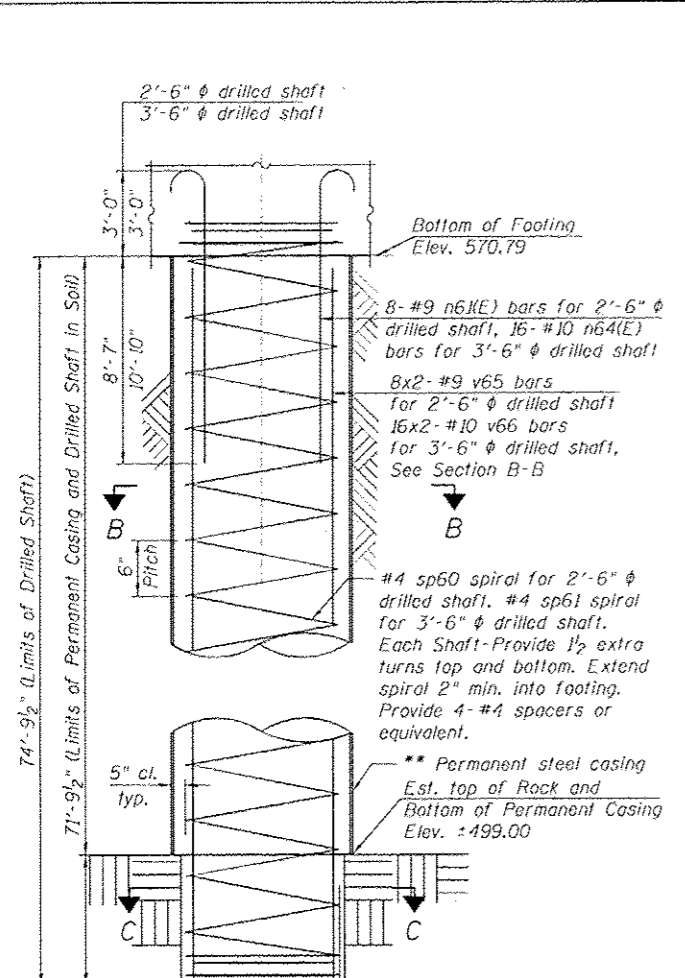


**DETAIL E**  
(Detail F opposite hand)

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 221 HILLSDALE, IL 60162 (708) 236-0900 (708) 236-0901	PROJECT: 0161789-G6W25-S2B-SouthAbutment2.dwg USER NAME: wjllardous PLOT SCALE: 3/8" = 1'-0" PLOT DATE: 7/17/2013	DESIGNED: MI, MAF DRAWN: LAB, MAF CHECKED: MAI, MI, JJS DATE: 6/17/2013	REVISED: 07/19/2013 MI, WM REVISED REVISED REVISED
	Entire sheet revised		
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
	SOUTH ABUTMENT FOOTING PLAN AND SECTIONS STRUCTURE NO. 016-1709		
	SCALE: SHEET 51-28 OF 51 SHEETS STA. TO STA.		

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	172
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	





**NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Apply concrete sealer to all exposed concrete surfaces of the abutment.
3. All edges shall have standard  $\frac{3}{4}$ " chamfer.
4. For bar cutting diagram, see Sheet S1-30.
5. For reveal details, see Sheet S1-31.

\* Space h69(E) bars to miss anchor bolts.  
 \*\* Contractor is responsible for determining the casing thickness and the actual lip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.

**BILL OF MATERIAL**

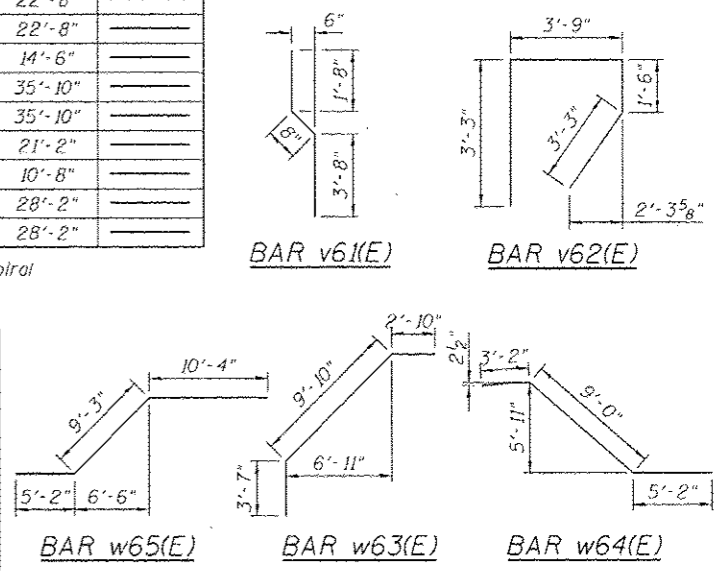
Bar	No.	Size	Length	Shape
b60(E)	22	#5	1'-2"	—
c60(E)	6	#5	9'-6"	—
c61(E)	6	#5	2'-4"	—
d60(E)	38	#5	5'-9"	—
d61(E)	46	#5	2'-7"	—
d62(E)	80	#7	7'-8"	—
d63(E)	8	#5	6'-10"	—
d64(E)	12	#7	8'-9"	—
e60(E)	4	#4	17'-4"	—
e61(E)	4	#4	20'-7"	—
e62(E)	4	#4	19'-6"	—
e63(E)	4	#4	22'-6"	—
e64(E)	8	#4	4'-2"	—
h60(E)	26	#5	30'-6"	—
h61(E)	24	#5	17'-4"	—
h62(E)	24	#5	21'-5"	—
h63(E)	24	#5	19'-6"	—
h64(E)	24	#5	23'-3"	—
h65(E)	16	#5	1'-11"	—
h66(E)	24	#5	9'-5"	—
h67(E)	12	#5	7'-9"	—
h68(E)	96	#5	6'-2"	—
h69(E)	3	#5	9'-8"	—
h70(E)	84	#5	32'-0"	—
n60(E)	62	#5	7'-1"	—
n61(E)	187	#9	12'-10"	—
n62(E)	40	#5	7'-1"	—
n63(E)	89	#9	13'-2"	—
n64(E)	256	#10	15'-3"	—
sp60	8	#4	75'-0"	—
sp61	16	#4	75'-0"	—
u60(E)	11	#4	3'-9"	—
v60(E)	59	#5	6'-2"	—
v61(E)	59	#5	6'-0"	—
v62(E)	59	#5	11'-9"	—
v63(E)	62	#5	16'-10"	—
v64(E)	123	#9	16'-10"	—
v65	128	#9	41'-7"	—
v66	512	#10	42'-8"	—
v67(E)	59	#5	3'-11"	—
v68(E)	40	#5	21'-9"	—
v69(E)	90	#9	21'-9"	—
v70(E)	12	#5	6'-1"	—
v71(E)	36	#5	4'-4"	—
w60(E)	42	#7	29'-4"	—
w61(E)	60	#7	33'-1"	—
w62(E)	16	#7	17'-2"	—
w63(E)	2	#7	16'-3"	—
w64(E)	2	#7	17'-4"	—
w65(E)	2	#7	24'-9"	—
Concrete Structures	Cu Yd	349.6		
Concrete Superstructure	Cu Yd	10.9		
Protective Coat	Sq Yd	18		
Reinforcement Bars	Pound	130,130		
Reinforcement Bars, Epoxy Coated	Pound	77,410		
Permanent Casing	Foot	1,723		
Drilled Shaft in Soil	Cu Yd	515		
Drilled Shaft in Rock	Cu Yd	16		
Concrete Sealer	Sq Ft	2,483		
Geocomposite Wall Drain	Sq Yd	220		
Braced Excavation	Cu Yd	1,606		
Granular Backfill for Structures	Cu Yd	280		
Pipe Underdrains for Structures 6"	Foot	119		

**BILL OF MATERIAL (CONT'D)**

Bar	No.	Size	Length	Shape
160(E)	13	#9	8'-2"	—
161(E)	7	#9	22'-8"	—
162(E)	4	#9	22'-8"	—
163(E)	188	#9	14'-6"	—
164(E)	4	#9	35'-10"	—
165(E)	7	#9	35'-10"	—
166(E)	7	#9	21'-2"	—
167(E)	11	#9	10'-8"	—
168(E)	4	#9	28'-2"	—
169(E)	7	#9	28'-2"	—

**Minimum Bar Laps**

Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"
#10	10'-10"



FILE PATH: C:\Users\vlm\OneDrive\Desktop\Drawings For The Dept of Transportation\SPR-SouthAbutment.dwg  
 I:\Users\vlm\OneDrive\Desktop\Drawings For The Dept of Transportation\SPR-SouthAbutment.dwg

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 751 HILLSBORO, IL 60142 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161789-0020-529-SouthAbutment3.dwg USER NAME: willmardous PLOT SCALE: 3/8"=1'-0" PLOT DATE: 7/19/2013	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MAI, MI, JJS DATE - 6/17/2013 REVISIONS - REVISIONS - REVISIONS -	07/19/2013 MI, LAB
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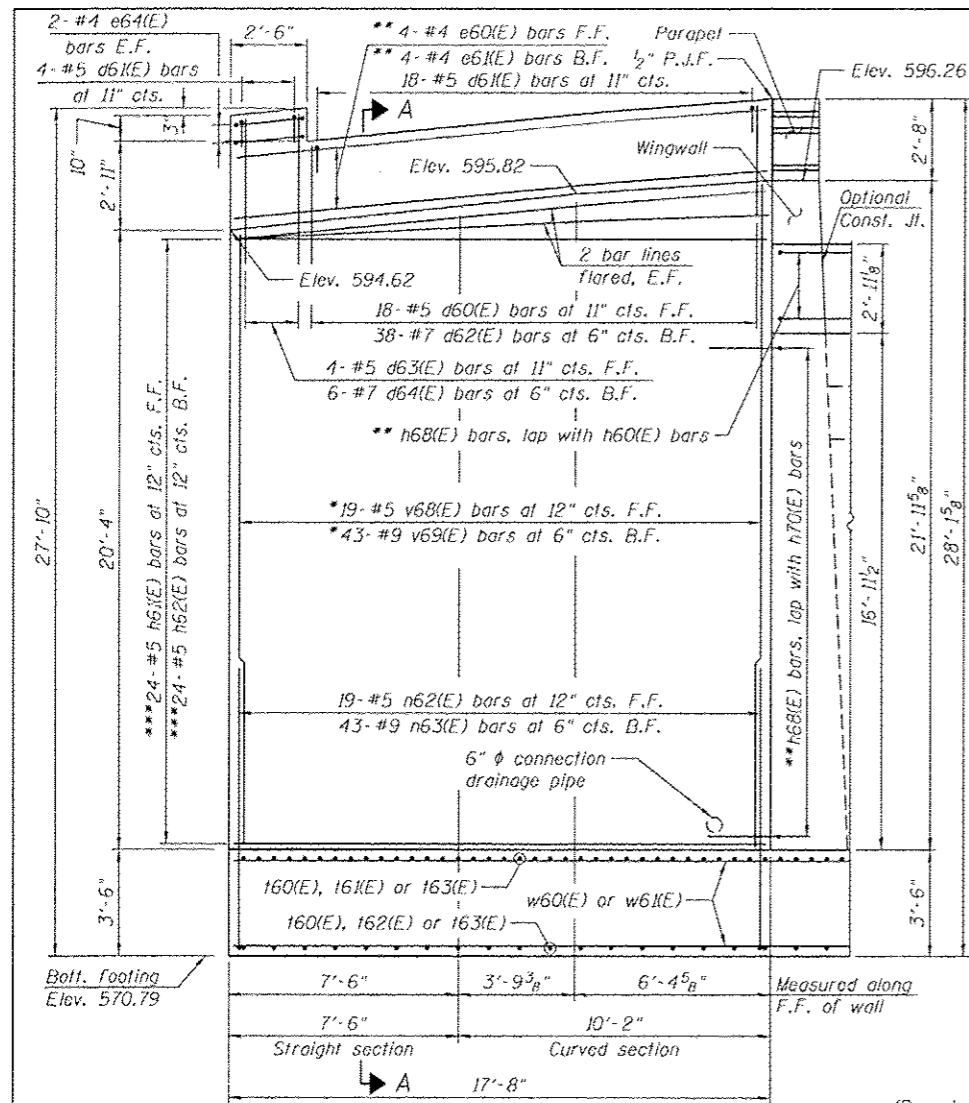
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT SECTIONS AND DETAILS**  
**STRUCTURE NO. 016-1709**

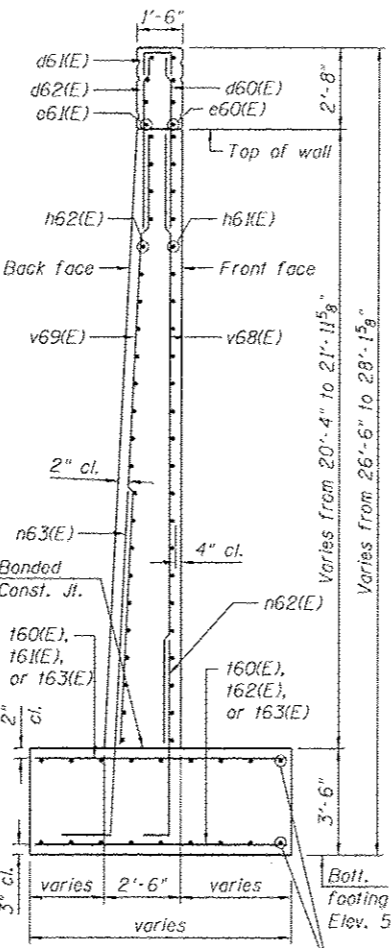
SCALE: SHEET S1-29 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	173
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

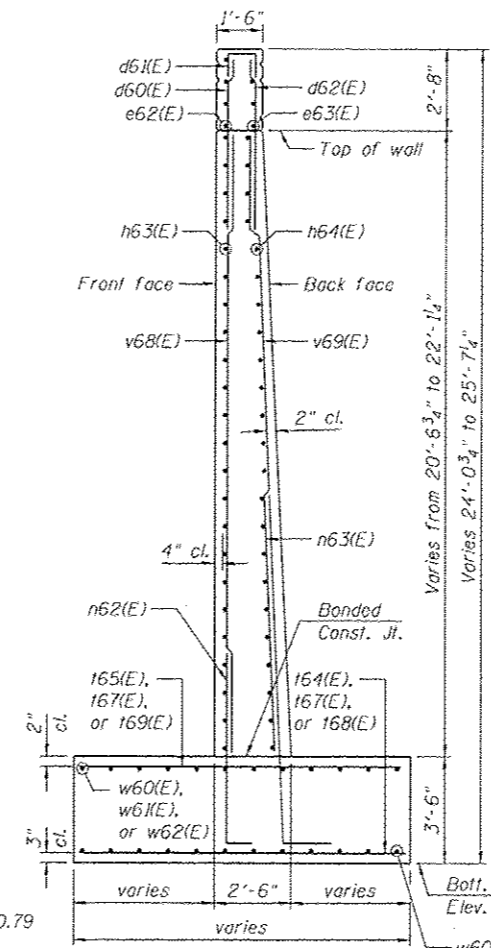




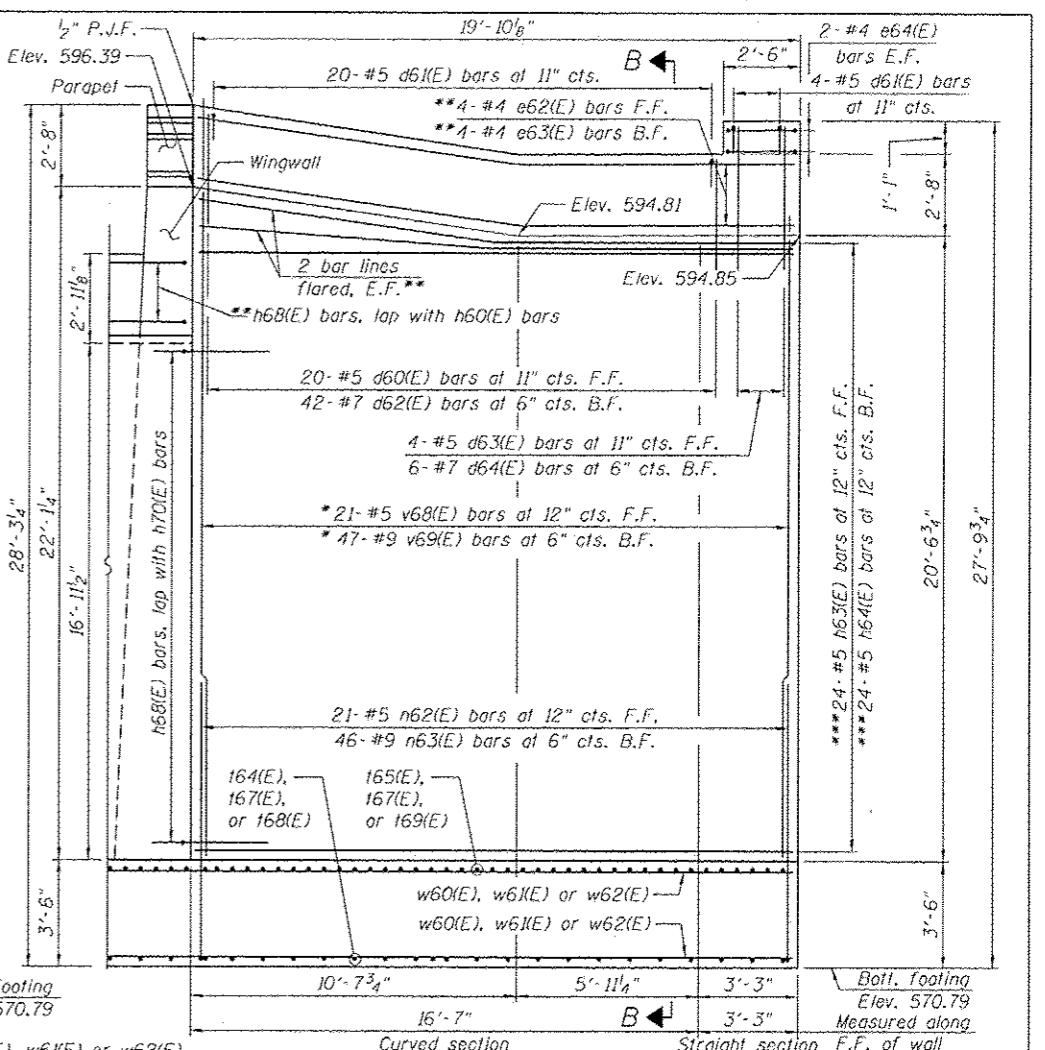
**SOUTHEAST WINGWALL ELEVATION**  
(Looking South - Drilled shafts are not shown for clarity)



**SECTION A-A**  
(Reveal and Drilled shafts are not shown for clarity)



**SECTION B-B**  
(Reveal and Drilled shafts are not shown for clarity)

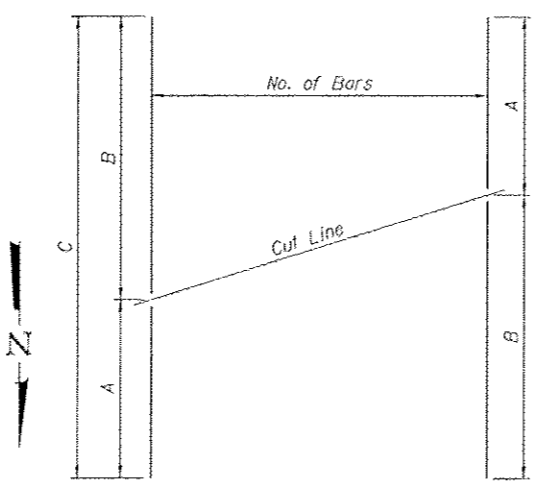


**SOUTHWEST WINGWALL ELEVATION**  
(Looking South - Drilled shafts are not shown for clarity)

**BAR TABLE SCHEDULE**

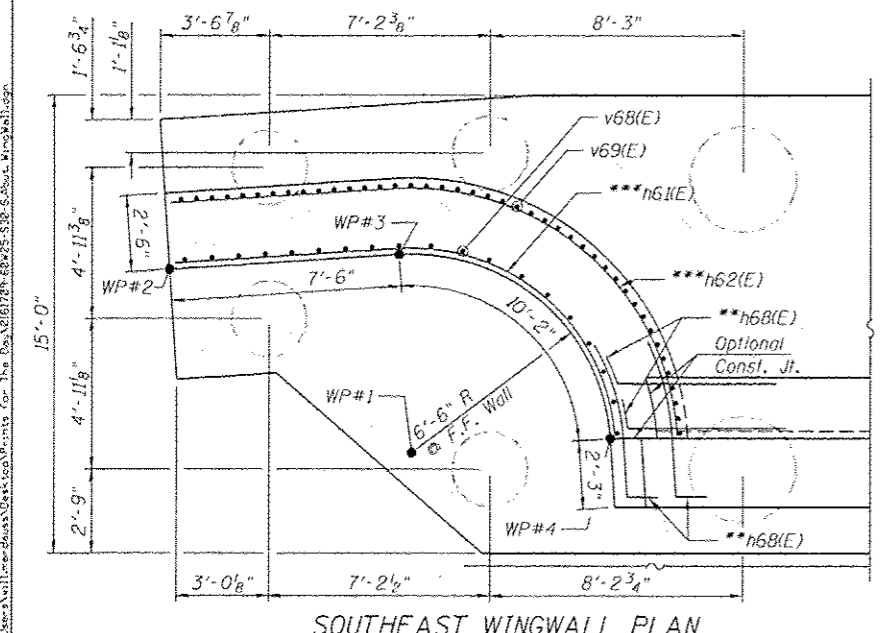
Bar	No. of Sets Req'd	No. of Bars Per Set	A	B	C
161(E)	1	7	8'-4"	14'-4"	22'-8"
162(E)	1	4	8'-4"	14'-4"	22'-8"
164(E)	1	4	14'-10"	21'-0"	35'-10"
165(E)	1	7	14'-10"	21'-0"	35'-10"
168(E)	1	4	11'-2"	17'-0"	28'-2"
169(E)	1	7	11'-2"	17'-0"	28'-2"

- NOTES:**
- Reinforcement bars designated (E) shall be epoxy coated.
  - For drilled shaft details and Bill of Materials, see Sheet SI-29.
  - Concrete required for parapet shall be included with Concrete Superstructure.
  - For wingwall Braced Excavation and granular backfill for structures details, see Sheet SI-28.
  - For working points, see Sheet SI-28.
  - For reveal details, see Sheet SI-31.

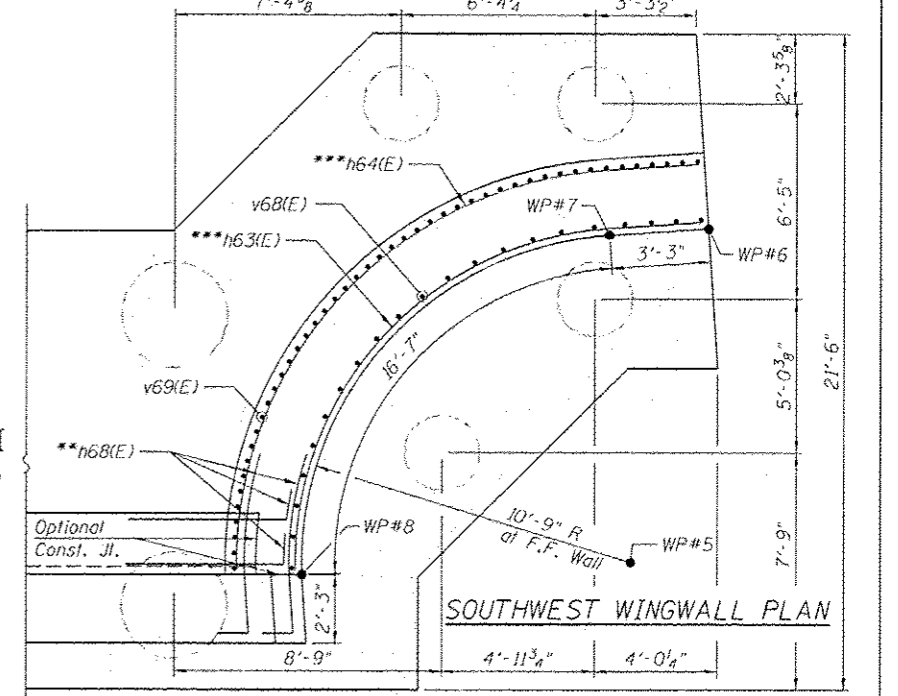


**BAR CUTTING DIAGRAM**

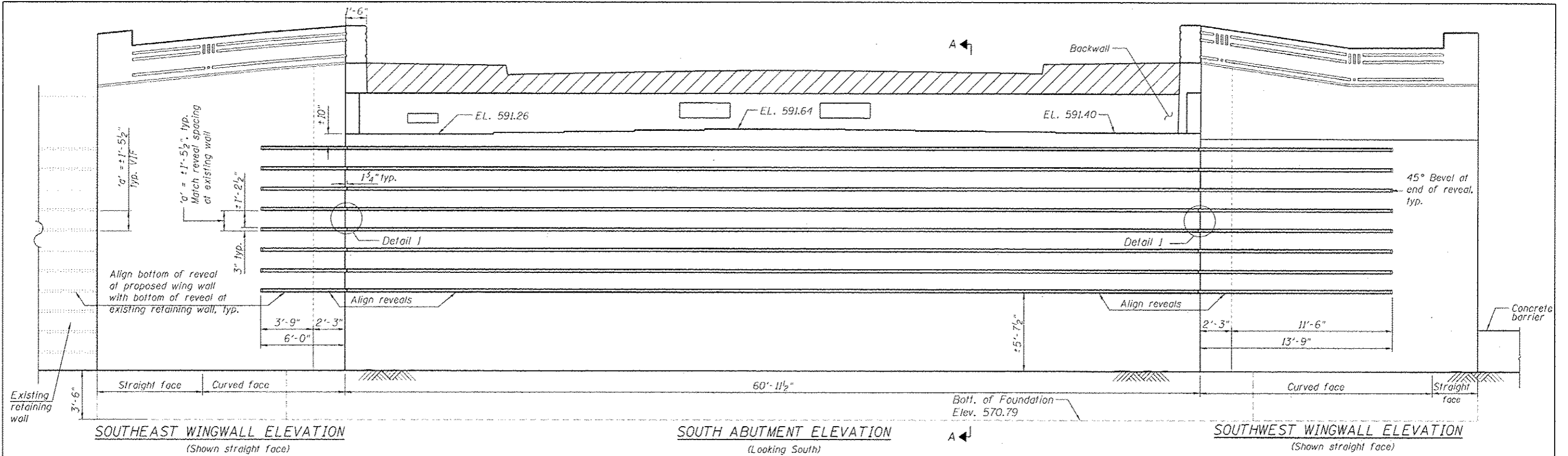
See table for dimensions. Make all cuts normal to bar axis



**SOUTHEAST WINGWALL PLAN**



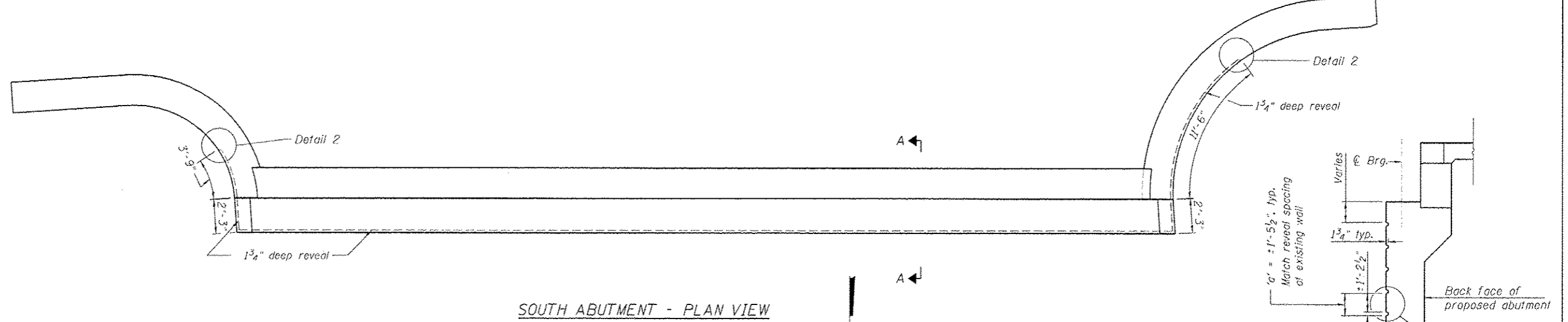
**SOUTHWEST WINGWALL PLAN**



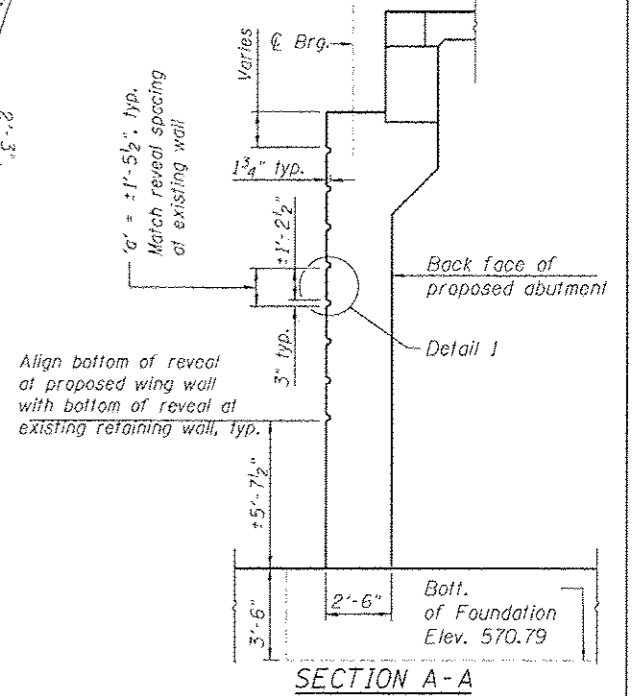
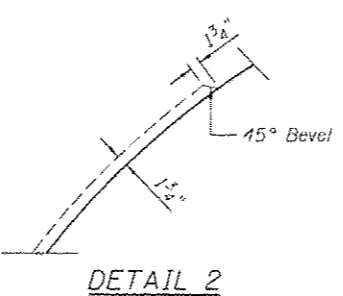
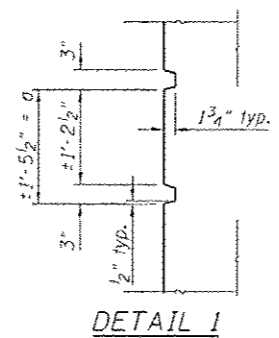
**SOUTHEAST WINGWALL ELEVATION**  
(Shown straight face)

**SOUTH ABUTMENT ELEVATION**  
(Looking South)

**SOUTHWEST WINGWALL ELEVATION**  
(Shown straight face)



**SOUTH ABUTMENT - PLAN VIEW**



**SECTION A-A**

- NOTES:**
1. Dimension 'a' to be determined from the existing retaining wall texture, as shown on elevation detail (= ±17 1/2")
  2. 3" x 1/4" reveals will not be paid separately, but shall be included with Concrete Superstructure.
  3. The 3" x 1 3/4" reveal will not be paid separately and shall be included in the cost of the pay item "Concrete Structures".

Entire sheet revised

**HBM**  
ENGINEERING GROUP, LLC  
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INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSIDE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0900

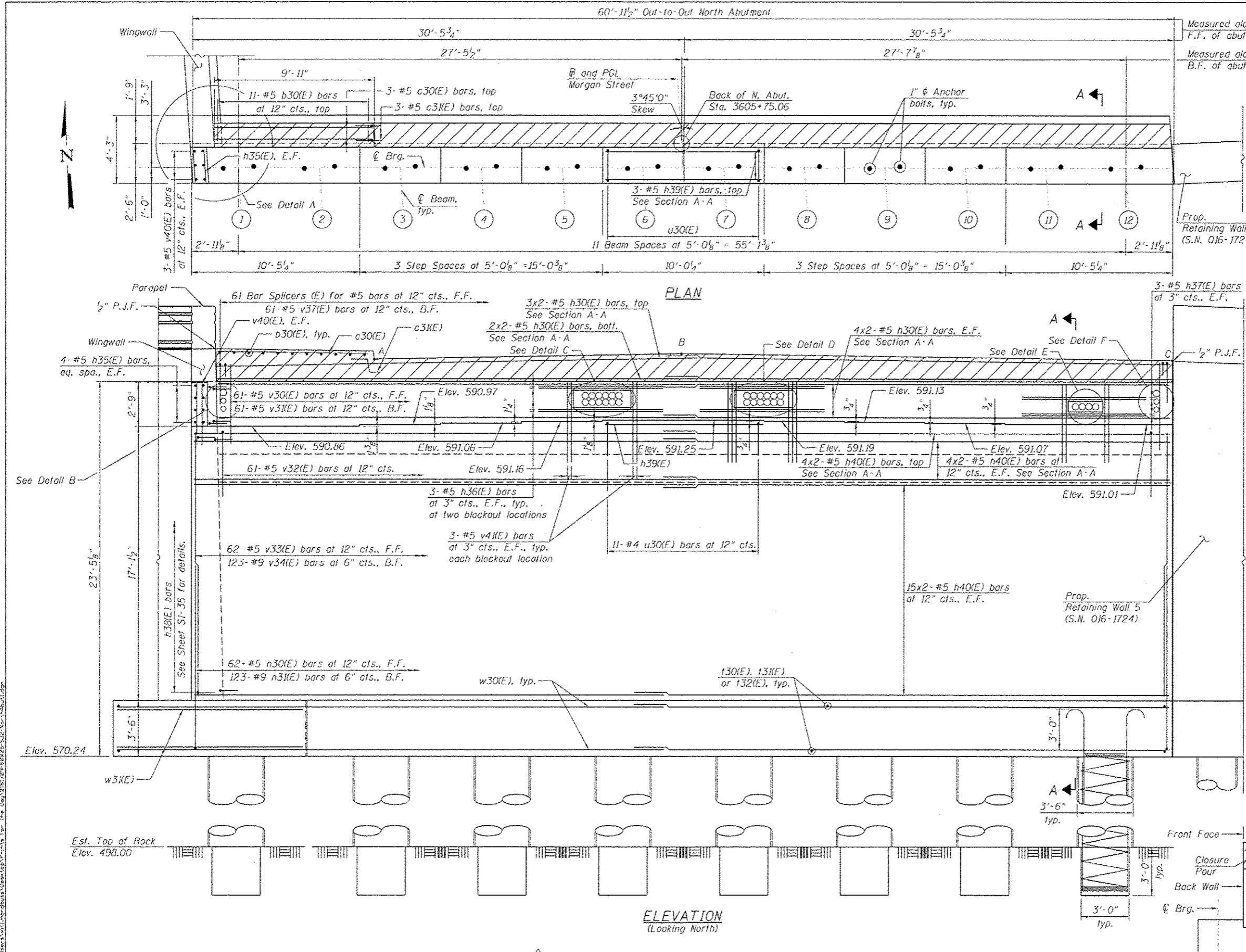
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DRAWN - MR	REVISION -
CHECKED - MAL, MI	REVISION -
DATE - 6/17/2013	REVISION -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

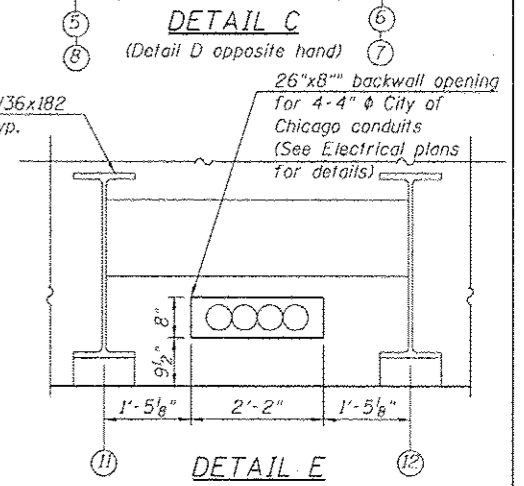
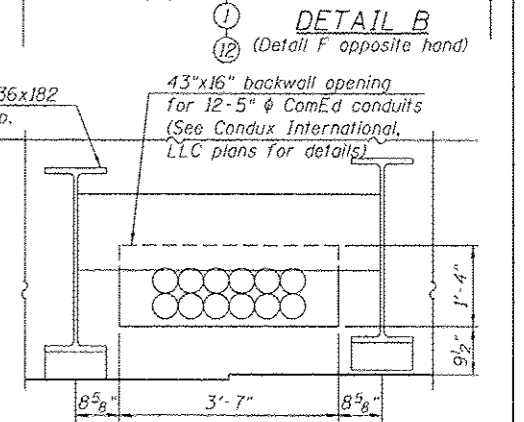
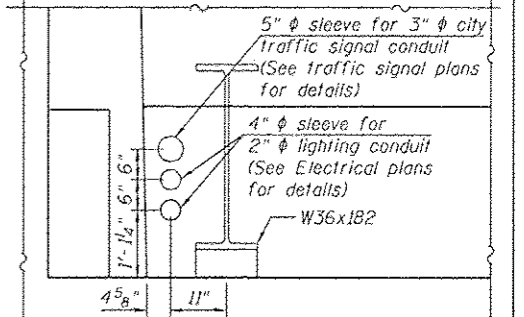
**SOUTH ABUTMENT ARCHITECTURAL DETAILS**  
**STRUCTURE NO. 016-1709**

F.A.I. RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	175
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 51-31 OF 51 SHEETS STA. TO STA.



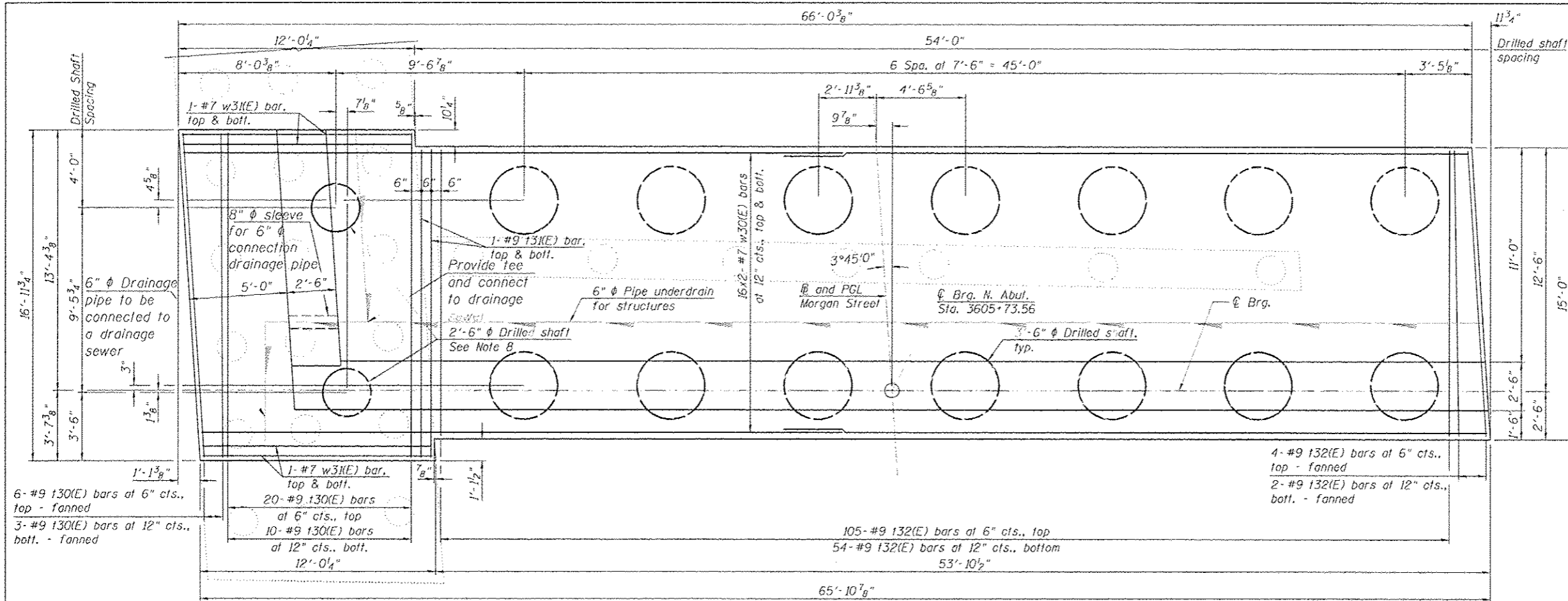
- NOTES:**
1. For Section A-A, see Sheet S1-34.
  2. For Detail A, see Sheet S1-33.
  3. For wingwall reinforcement and details, see Sheet S1-35.
  4. For anchor bolt layout plan, see Sheet S1-25.
  5. For location of ITS, lighting and City of Chicago conduits, see lighting plans. The Contractor shall coordinate the locations of ComEd conduits with the ComEd plans and ComEd Contractor.



**TOP OF BACKWALL (CLOSURE POUR) ELEVATIONS**

POINTS	FRONT FACE	BACK FACE
A - West Curb Line	595.13	595.07
B - Crown	595.48	595.42
C - E. Edge of Abut.	595.08	595.02

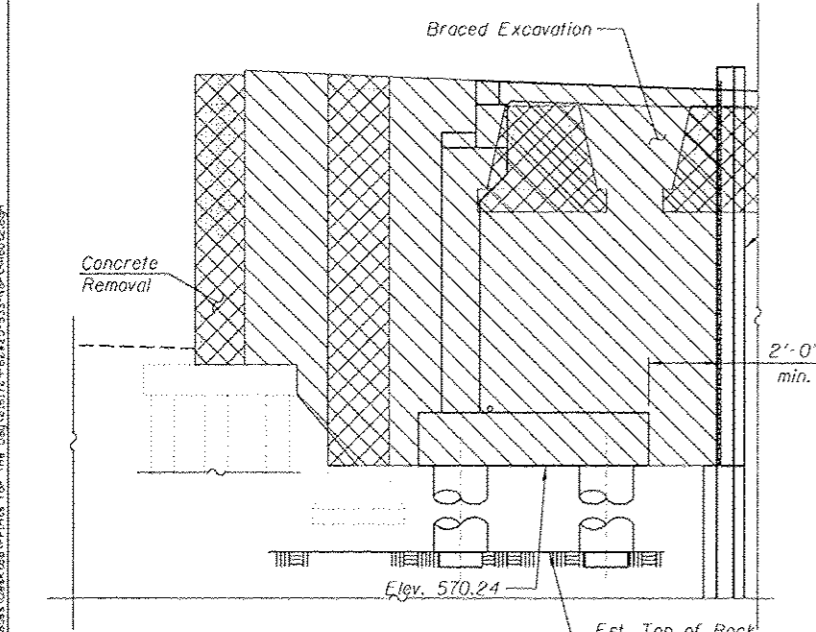
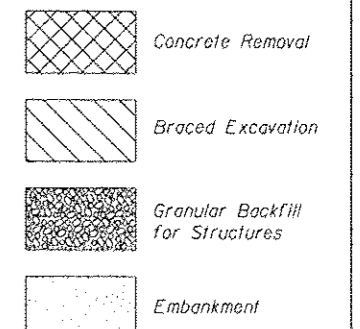
<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	BIE1709-68W25-S32-NorthAbut.dgn USER NAME: williamdousa PLOT SCALE: 3/8" = 1'-0" PLOT DATE: 7/15/2013	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MAI, MI, WM DATE - 6/17/2013	REVISED - REVISED - REVISED - REVISED -	07/19/2013 MI, JLS Entire sheet revised	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>NORTH ABUTMENT PLAN AND ELEVATION</b> <b>STRUCTURE NO. 016-1709</b>	SCALE: SHEET S1-32 OF S1 SHEETS STA. TO STA.	F.A.I. RTEL: 90/94/290 SECTION: 2013-007R COUNTY: COOK TOTAL SHEETS: 317 SHEET NO.: 176 CONTRACT NO.: 60W25
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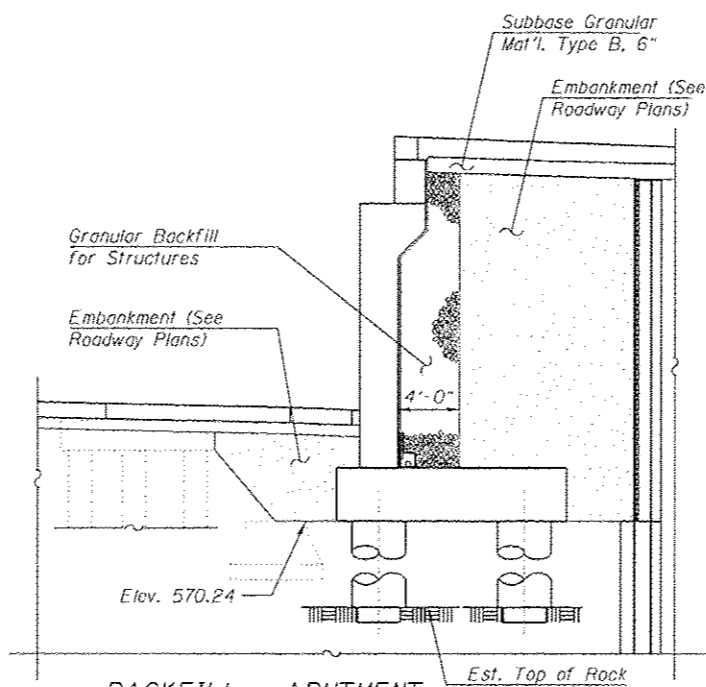
**FOOTING LAYOUT**

- NOTES:**
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Bars noted thus 3x2-#5 indicates 3 lines of bars with 2 bars per line.
  3. Driving piles and temporary sheet piling are not allowed.
  4. For Bill of Materials, see Sheet SI-34.
  5. For existing pile removal details, see Sheet SI-08.
  6. Space footing reinforcement to miss extended reinforcement from drilled shaft.
  7. For wingwall braced excavation and backfill details, see Sheet SI-35.
  8. Installation of drilled shaft may require coring through existing pile balls. Additional costs included in Drilled Shaft in Soil.

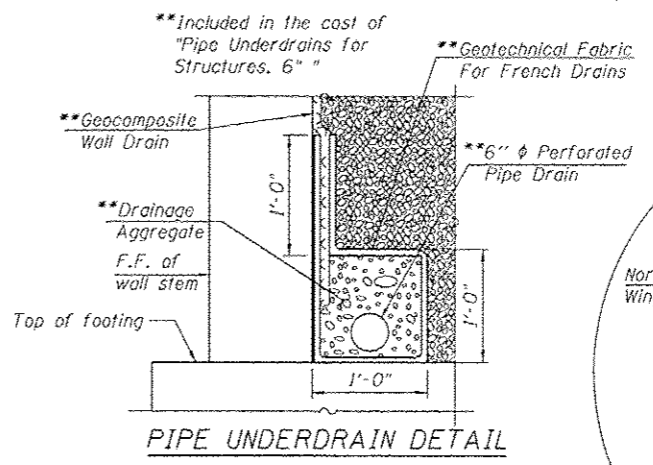
**LEGEND:**



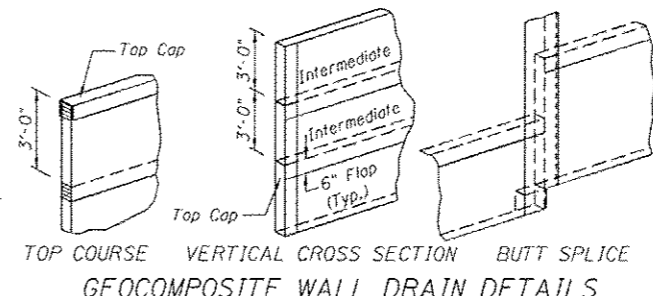
**BRACED EXCAVATION - ABUTMENT**



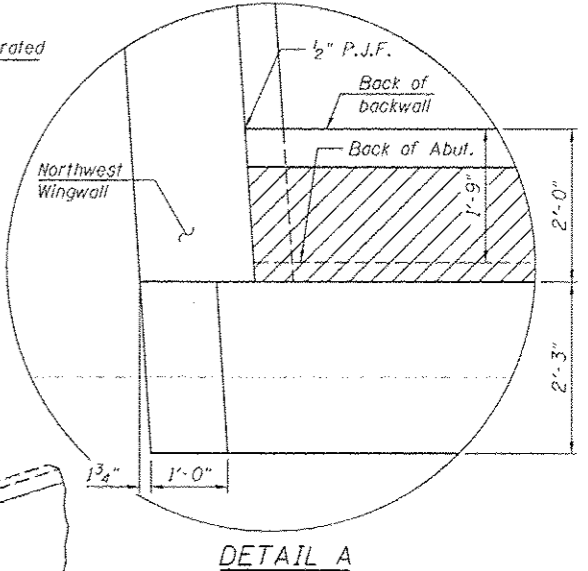
**BACKFILL - ABUTMENT**



**PIPE UNDERDRAIN DETAIL**



**GEOCOMPOSITE WALL DRAIN DETAILS**



**DETAIL A**

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**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

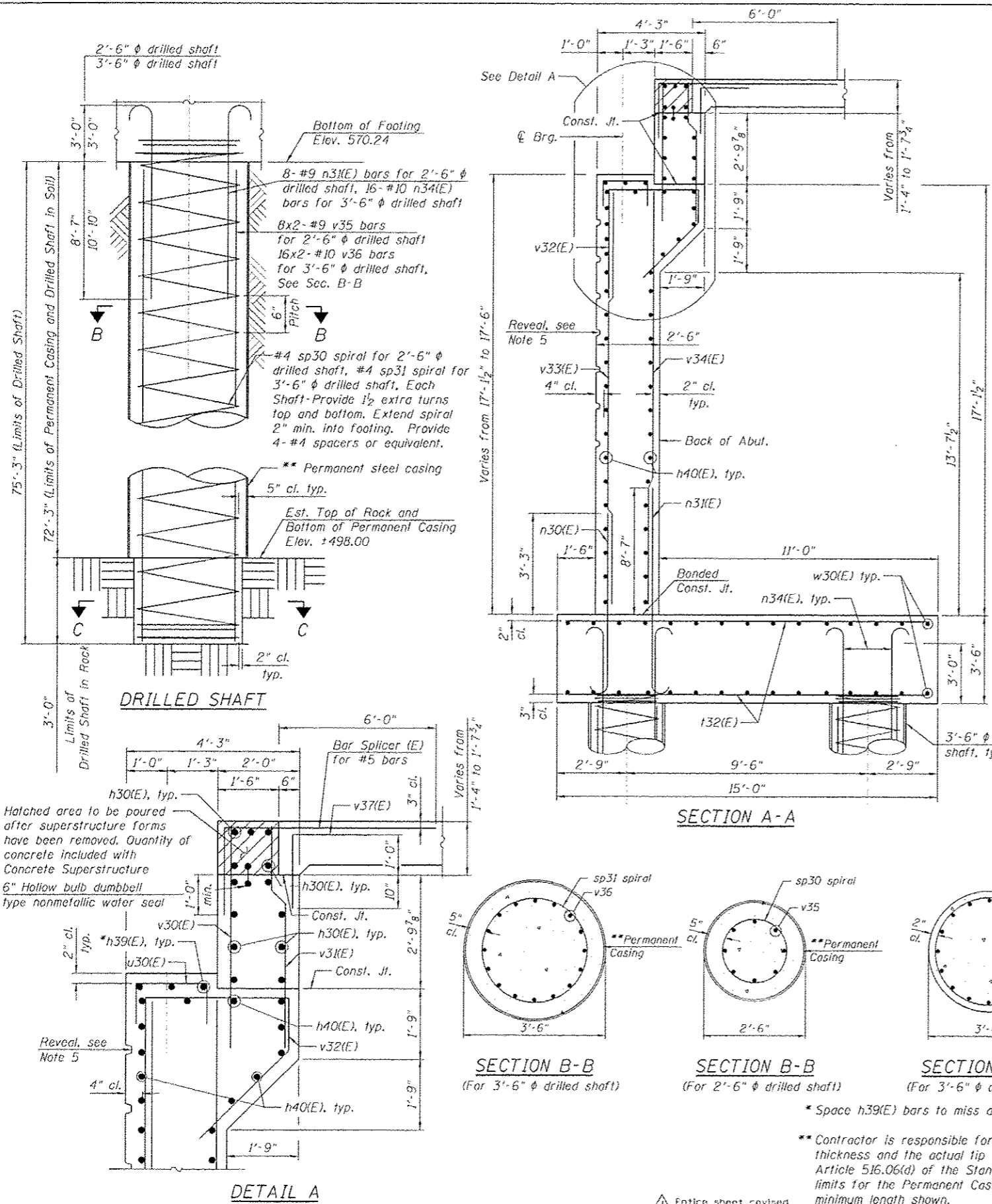
4415 WEST HARRISON ST.  
SUITE 231  
MILLSTONE, IL 60162  
PHONE: (708) 236-0300  
FAX: (708) 236-0303

DESIGNED - MI, MAF	REVISED - 07/15/2013 MI, LAB
DRAWN - LAB, MAF	REVISED -
CHECKED - MAI, MI, WM	REVISED -
DATE - 6/17/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT FOOTING PLAN AND SECTIONS  
STRUCTURE NO. 016-1709**

F.U.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50/94/290	2013-007R	COOK	317	177
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



BAR d30(E), d32(E), d34(E), d35(E), h38(E), n32(E), n33(E) & v37(E)

Bar	A	B
d30(E)	4'-10"	6"
d32(E)	5'-10"	6"
d34(E)	4'-10"	6"
d35(E)	5'-10"	6"
h38(E)	4'-0"	1'-0"
n32(E)	6'-6"	10"
n33(E)	11'-10"	1'-7"
v37(E)	1'-11"	1'-10"

BAR n30(E), n31(E) & n34(E)

Bar	C	D	E
n30(E)	5"	7"	6'-6"
n31(E)	11'-3"	1'-3"	11'-7"
n34(E)	1'-1 1/4"	1'-5"	13'-10"

BAR d31(E), e33(E) & u30(E)

Bar	F	G
d31(E)	1'-1"	9"
e33(E)	2'-2"	1'-0"
u30(E)	1'-9"	1'-0"

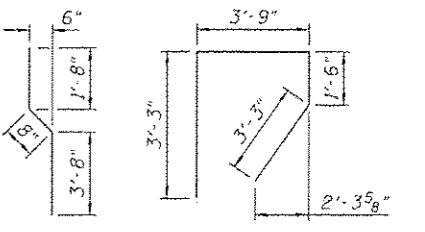
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b30(E)	11	#5	1'-2"	
c30(E)	3	#5	9'-6"	
c31(E)	3	#5	2'-4"	
d30(E)	42	#5	5'-4"	
d31(E)	60	#5	2'-7"	
d32(E)	4	#5	6'-4"	
d33(E)	14	#5	5'-9"	
d34(E)	76	#7	5'-4"	
d35(E)	6	#7	6'-4"	
d36(E)	26	#7	7'-8"	
e30(E)	8	#4	19'-11"	
e31(E)	8	#4	21'-3"	
e32(E)	8	#4	11'-10"	
e33(E)	4	#4	4'-2"	
h30(E)	26	#5	31'-3"	
h31(E)	46	#5	11'-9"	
h32(E)	2	#5	11'-10"	
h33(E)	8	#5	20'-3"	
h34(E)	8	#5	21'-6"	
h35(E)	8	#5	1'-11"	
h36(E)	24	#5	7'-7"	
h37(E)	12	#5	6'-0"	
h38(E)	48	#5	5'-0"	
h39(E)	3	#5	9'-8"	
h40(E)	84	#5	32'-2"	
n30(E)	62	#5	7'-1"	
n31(E)	139	#9	12'-10"	
n32(E)	13	#5	7'-4"	
n33(E)	25	#9	13'-5"	
n34(E)	224	#10	15'-3"	
sp30	2	#4	75'-5"	
sp31	14	#4	75'-5"	
130(E)	39	#9	16'-8"	
131(E)	4	#9	15'-10"	
132(E)	165	#9	14'-8"	

BILL OF MATERIAL (CONT'D)

Bar	No.	Size	Length	Shape
u30(E)	11	#4	3'-9"	
v30(E)	61	#5	6'-1"	
v31(E)	61	#5	6'-0"	
v32(E)	61	#5	11'-9"	
v33(E)	62	#5	16'-11"	
v34(E)	123	#9	16'-11"	
v35	32	#9	41'-9"	
v36	448	#10	42'-11"	
v37(E)	61	#5	3'-9"	
v38(E)	13	#5	21'-9"	
v39(E)	25	#9	21'-9"	
v40(E)	6	#5	6'-1"	
v41(E)	36	#5	4'-3"	
w30(E)	64	#7	35'-5"	
w31(E)	8	#7	11'-8"	
Concrete Structures		Cu Yd	278.5	
Concrete Superstructure		Cu Yd	12.7	
Protective Coat		Sq Yd	25	
Reinforcement Bars		Pound	96,570	
Reinforcement Bars, Epoxy Coated		Pound	59,000	
Permanent Casing		Foot	1,156	
Drilled Shaft in Soil		Cu Yd	388	
Drilled Shaft in Rock		Cu Yd	12	
Concrete Sealer		Sq Ft	1,953	
Geocomposite Wall Drain		Sq Yd	171	
Braced Excavation		Cu Yd	1,300	
Granular Backfill for Structures		Cu Yd	225	
Pipe Underdrains for Structures 6"		Foot	84	

\*\*\* Length is height of spiral



NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
3. Apply concrete sealer to all exposed concrete surfaces of the abutment.
4. All edges shall have standard 3/4" chamfer.
5. For reveal details, see Sheet S1-36.

Minimum Bar Laps	
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"
#10	10'-10"

**HBM** ENGINEERING GROUP, LLC  
 4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSDALE, IL 60162  
 PHONE: (708) 236-0200  
 FAX: (708) 236-0301

0161789-6020-534-Rev. 04/13.dgn  
 USER NAME: wallmordous  
 PLOT SCALE: 3/8"=1'-0"  
 PLOT DATE: 7/15/2013

DESIGNED	REVISION	DATE
MI, MAI	07/19/2013	MI, LAR
LAB, MAF		
MAI, MI, WM		

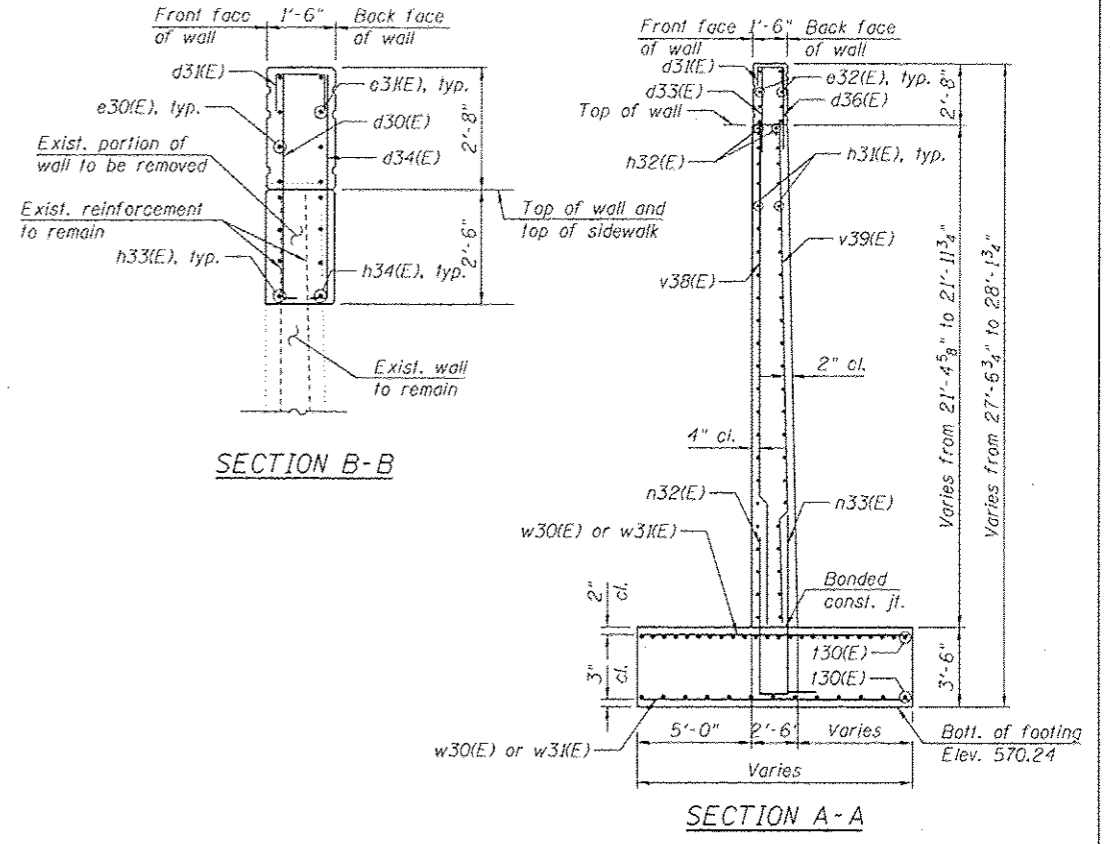
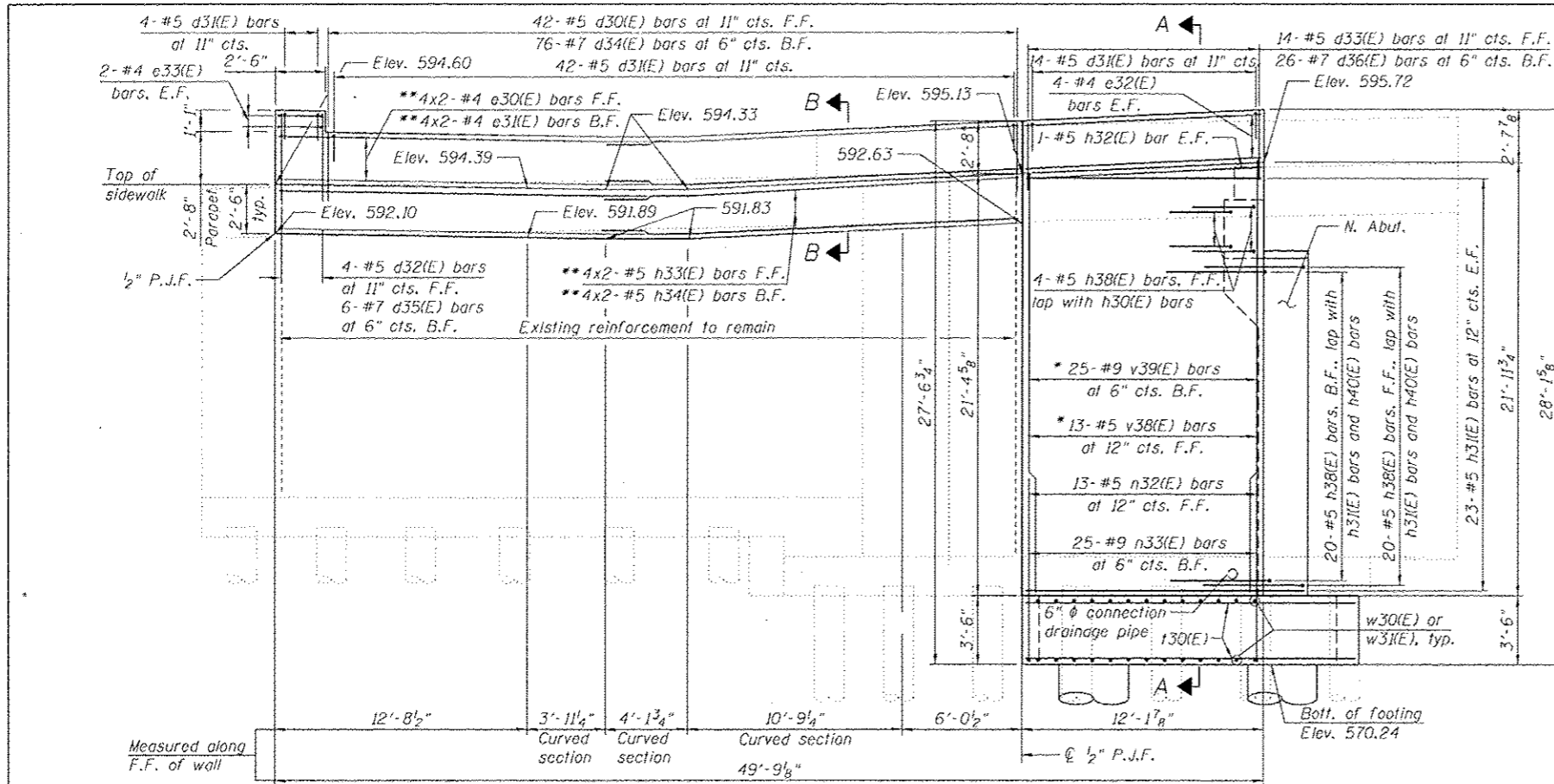
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT SECTIONS AND DETAILS  
 STRUCTURE NO. 016-1709

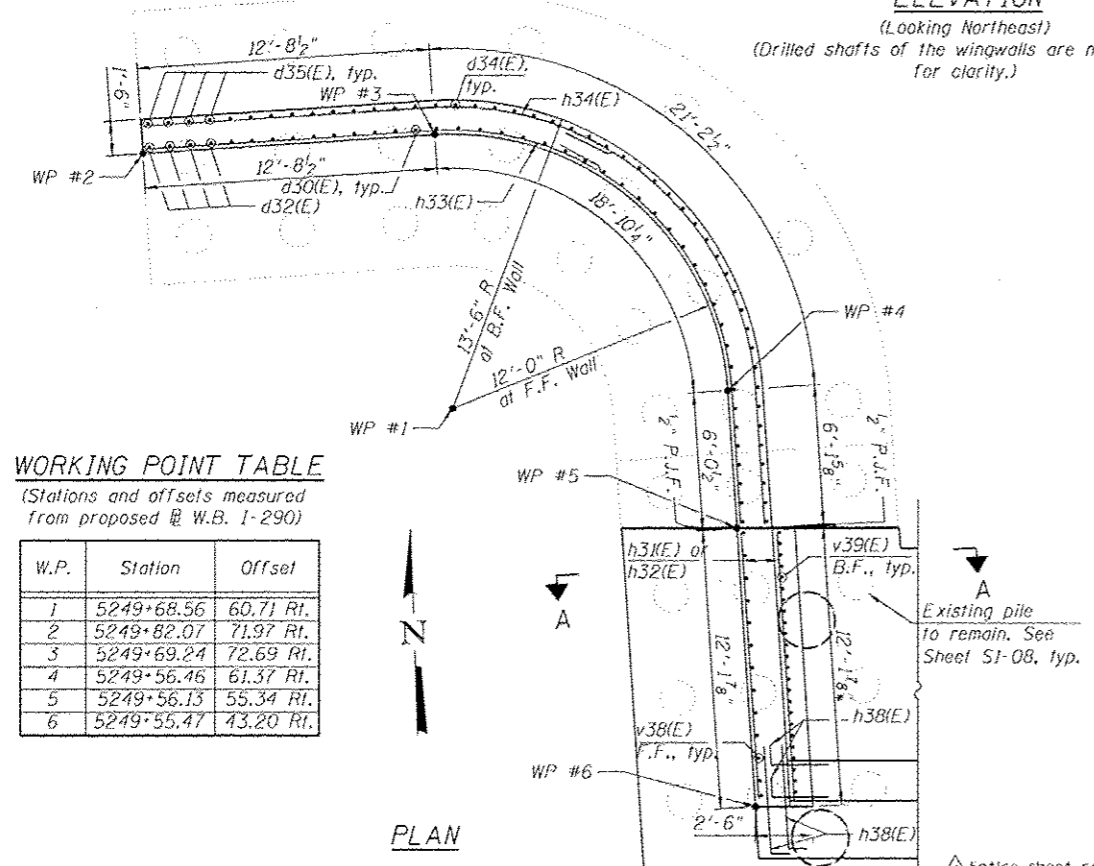
SCALE: SHEET S1-34 OF 51 SHEETS STA. TO STA.

F.A.T. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	178
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



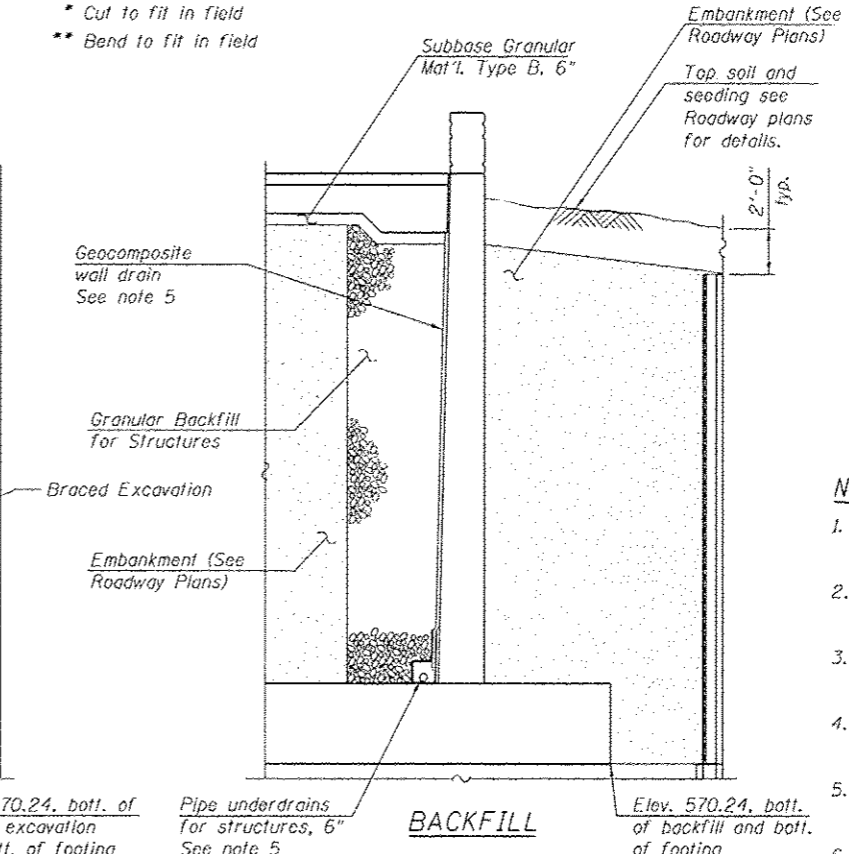
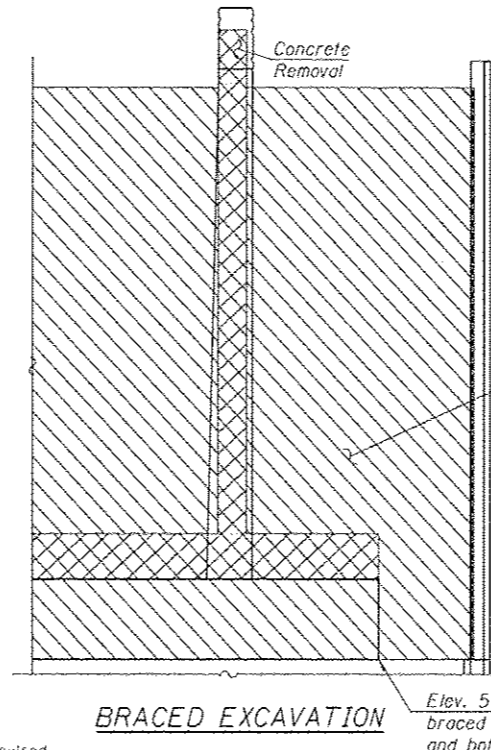


**ELEVATION**  
(Looking Northeast)  
(Drilled shafts of the wingwalls are not shown for clarity.)



**WORKING POINT TABLE**  
(Stations and offsets measured from proposed W.B. 1-290)

W.P.	Station	Offset
1	5249+68.56	60.71 Rt.
2	5249+82.07	71.97 Rt.
3	5249+69.24	72.69 Rt.
4	5249+56.46	61.37 Rt.
5	5249+56.13	55.34 Rt.
6	5249+55.47	43.20 Rt.



- LEGEND:**
- Concrete Removal
  - Braced Excavation
  - Granular Backfill for Structures
  - Embankment

- NOTES:**
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 bars per line.
  3. For drilled shaft details and Bill of Materials, see Sheet S1-34.
  4. Concrete required for parapet shall be included with Concrete Superstructure.
  5. For geocomposite wall drain details, and pipe underdrain detail, see Sheet S1-33.
  6. For reveal details, see Sheet S1-36.

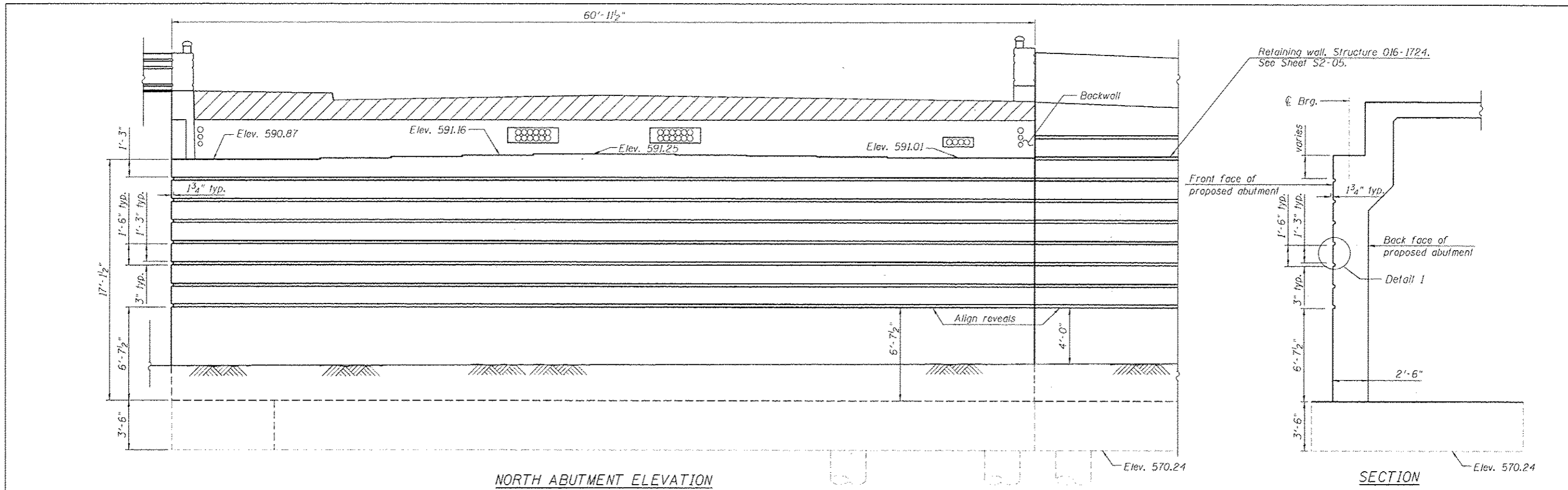
HBM ENGINEERING GROUP, LLC. 4415 WEST HARRISON ST. SUITE 231. HILLSDALE, IL 60162. PHONE: (708) 236-0900. FAX: (708) 236-0901.

<b>HBM</b> ENGINEERING GROUP, LLC. 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161784-60W25-S35-NorthAbutment.dgn USER NAME = will.mardoux PLOT SCALE = 410.0000 1/1 in. PLOT DATE = 7/15/2013	DESIGNED - MI, MAF DRAWN - LAB, MAF CHECKED - MAI, MI, WM DATE - 6/17/2013	REVISED - 07/19/2013 MI, LAB REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

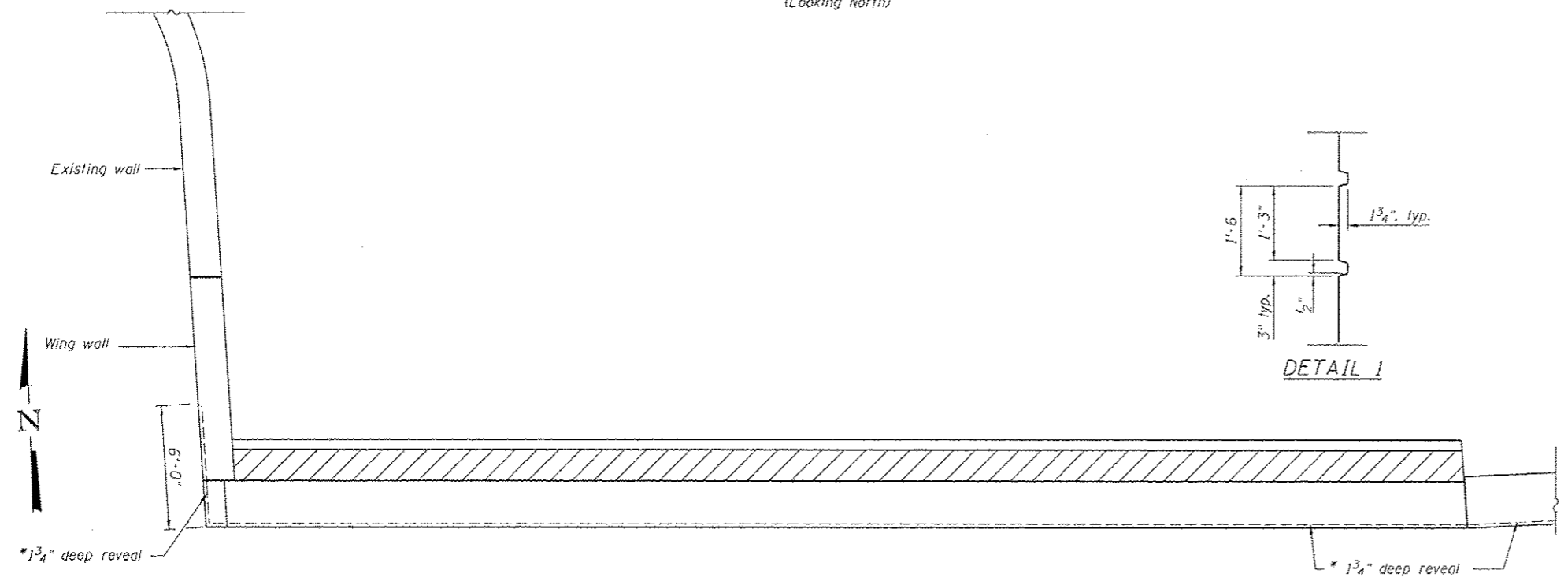
**NORTH ABUTMENT WINGWALLS**  
**STRUCTURE NO. 016-1709**  
 SCALE: SHEET S1-35 OF 51 SHEETS 51A. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	179
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

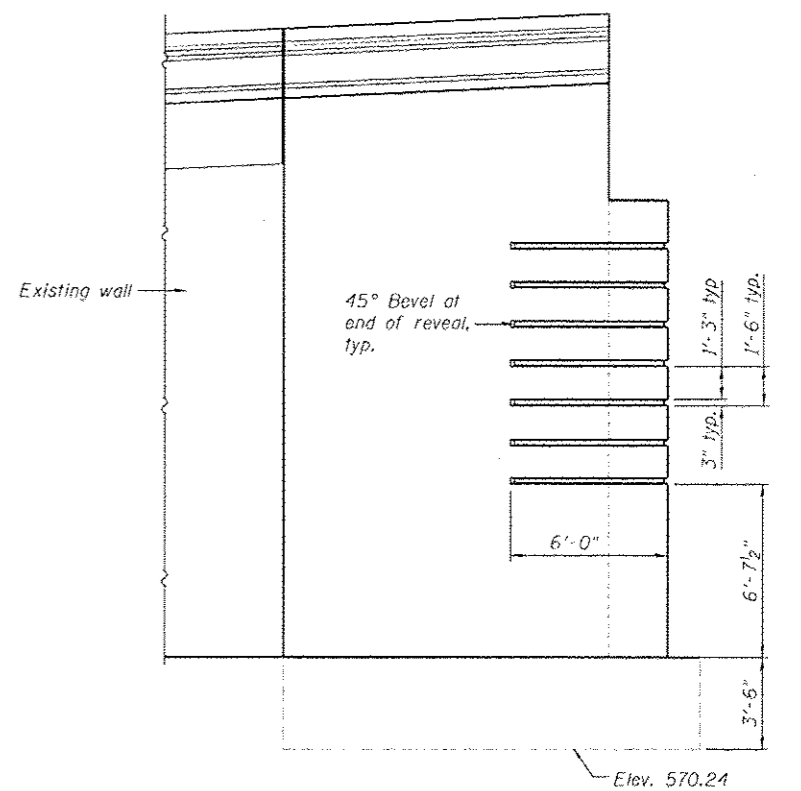


**NORTH ABUTMENT ELEVATION**  
(Looking North)

**SECTION**



**NORTH ABUTMENT PLAN**



**WINGWALL ELEVATION**

- NOTES:**
1. 3" x 1/4" reveals will not be paid separately, but shall be included with Concrete Superstructure.
  2. The 3" x 1 3/4" reveal will not be paid separately and shall be included in the cost of the pay item "Concrete Structures".

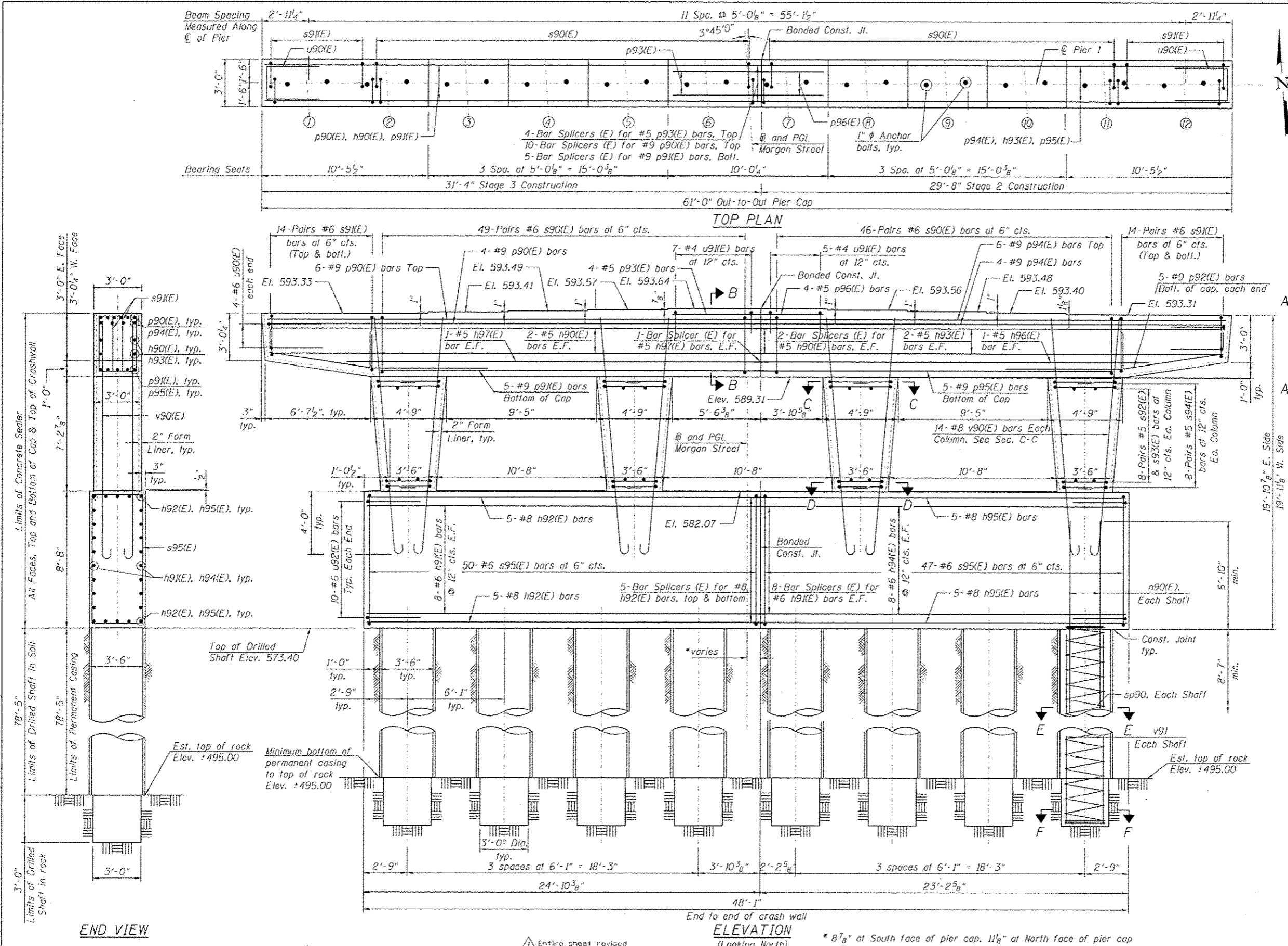
\*Align abutment and retaining wall form liner.

△ Entire sheet revised

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN CORRECTION & MAINT RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161709-60W25-536-North Abutment.dwg USER NAME: john.m.a.ciano PLOT SCALE = 3/6.0000" = 1' = 1/4" PLOT DATE = 7/15/2013	DESIGNER - MP DRAWN - MR CHECKED - MAJ, MJ DATE - 6/17/2013	REVISED - △ 07/19/2013 MP REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>NORTH ABUTMENT ARCHITECTURAL DETAILS</b> <b>STRUCTURE NO. 016-1709</b>	F.A.J. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 180
	SCALE: SHEET 51-36 OF 51 SHEETS STA. TO STA.					CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT				

**NOTES:**

1. See Sheet S1-38 for Bill of Material, Section A-A, B-B, C-C, D-D, E-E & F-F, Bar Diagrams, and Drilled Shaft details.
2. Pour steps monolithically with cap.
3. Space reinforcement in cap to miss anchor bolts.
4. The quantiles and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.
5. For Bearing orientation layout plan, see Sheet S1-25.



Minimum Bar Laps	
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER 1 PLAN AND ELEVATION  
STRUCTURE NO. 016-1709

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/9/290	2013-00TR	COOK	317	191
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
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PHONE: (708) 236-0900  
FAX: (708) 236-0201

DESIGNED - MI, MAJ  
DRAWN - LAB, MAF  
CHECKED - MAJ, MI, MWM  
DATE - 6/17/2013

REVISIONS  
01/19/2015 MI, WM  
REVISIONS

Entire sheet revised

SCALE: SHEET S1-37 OF 51 SHEETS STA. TO STA.

**BILL OF MATERIAL**

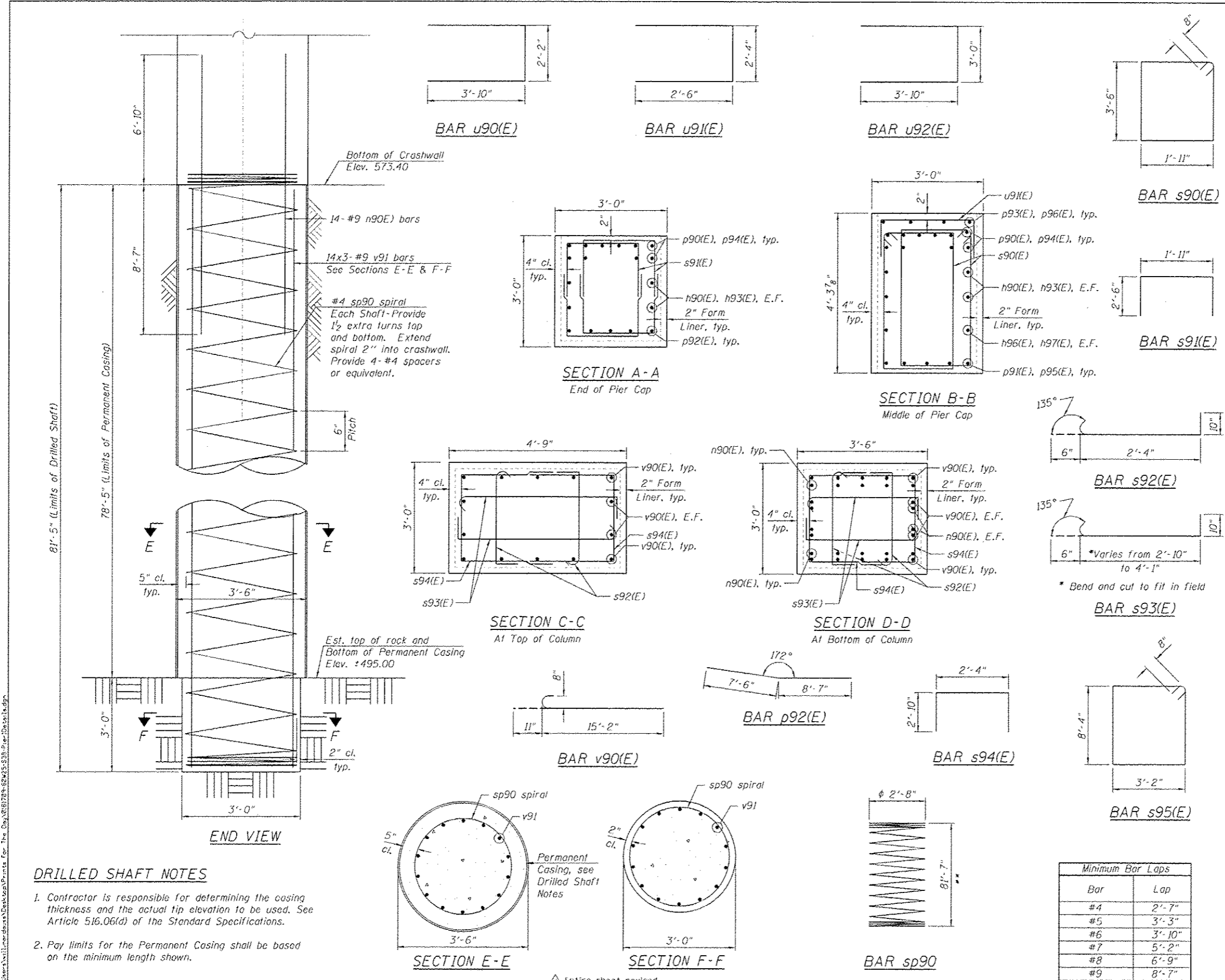
Bar	No.	Size	Length	Shape
h90(E)	4	#5	30'-9"	
h91(E)	16	#6	24'-7"	
h92(E)	10	#8	24'-7"	
h93(E)	4	#5	29'-1"	
h94(E)	16	#6	22'-11"	
h95(E)	10	#8	22'-11"	
h96(E)	2	#5	25'-9"	
h97(E)	2	#5	27'-5"	
n90(E)	112	#9	15'-5"	
p90(E)	10	#9	30'-9"	
p91(E)	5	#9	24'-3"	
p92(E)	10	#9	16'-1"	
p93(E)	4	#5	5'-8"	
p94(E)	10	#9	29'-1"	
p95(E)	5	#9	22'-3"	
p96(E)	4	#5	4'-0"	
sp90	190	#6	12'-2"	
s91(E)	112	#6	6'-11"	
s92(E)	64	#5	3'-8"	
s93(E)	64	#5	5'-5"	
s94(E)	64	#5	8'-0"	
s95(E)	97	#6	24'-4"	
** sp90	8	#4	81'-7"	
u90(E)	8	#6	9'-10"	
u91(E)	12	#4	7'-4"	
u92(E)	20	#6	10'-8"	
v90(E)	56	#8	15'-11"	
v91	336	#9	32'-9"	
Structure Excavation	Cu Yd		28	
Concrete Structures	Cu Yd		94.6	
Reinforcement Bars	Pound		44,870	
Reinforcement Bars, Epoxy Coated	Pound		24,260	
Permanent Casing	Foot		628	
Drilled Shaft in Soil	Cu Yd		224	
Drilled Shaft in Rock	Cu Yd		7	
Concrete Sealer	Sq Ft		2,247	
Granular Backfill for Structures	Cu Yd		27	

\*\*Length is height of spiral

**NOTES:**

- Reinforcement bars designated (E) shall be epoxy coated.
- Bars noted thus, 14x3-#5 indicates 14 lines of bars with 3 lengths of bars per line.
- Bars equally spaced, unless otherwise noted.
- Apply concrete sealer to all exposed concrete surfaces of the pier.
- All edges shall have standard 3/4" chamfer.
- Spirals are measured vertically.

Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"



**DRILLED SHAFT NOTES**

- Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications.
- Pay limits for the Permanent Casing shall be based on the minimum length shown.

FILE PATH: C:\Users\will.mardoush\Desktop\Projects For The Dept\B1709\016-1709\016-1709\_Pier1Detail.dwg

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
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MILLSBURG, IL 60142  
(217) 236-0900  
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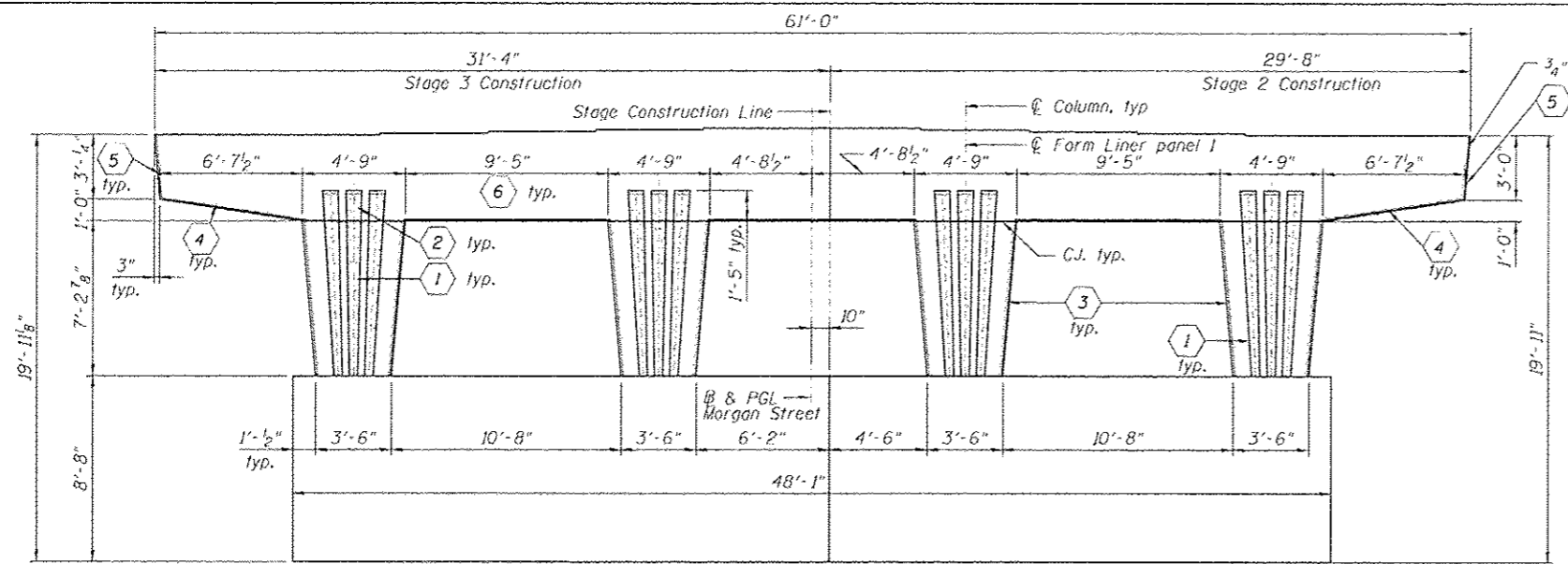
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PLOT SCALE = 1/4" = 1'	CHECKED - MAI, MI, MWM	REVISED -
PLOT DATE = 7/15/2013	DATE = 6/17/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

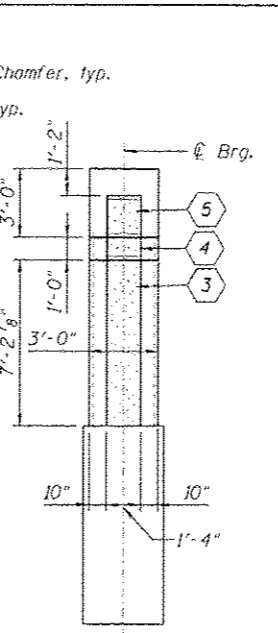
**PIER 1 SECTIONS AND DETAILS  
STRUCTURE NO. 016-1709**

SCALE: SHEET 31-38 OF 51 SHEETS STA. TO STA.

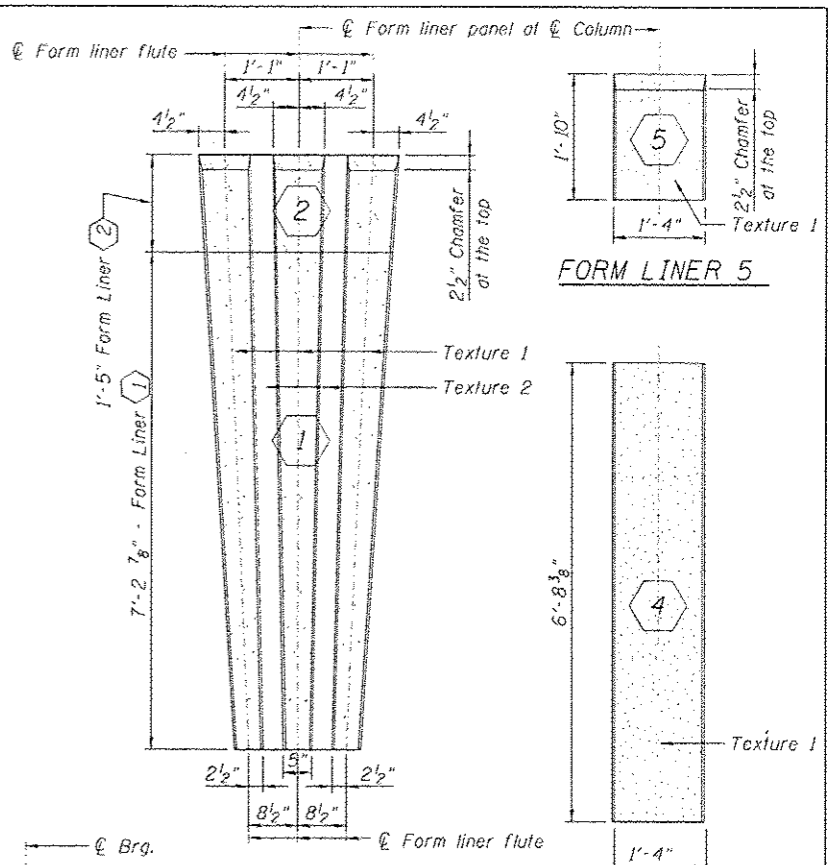
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	182
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



**PIER 1 ELEVATION**  
(Looking North)



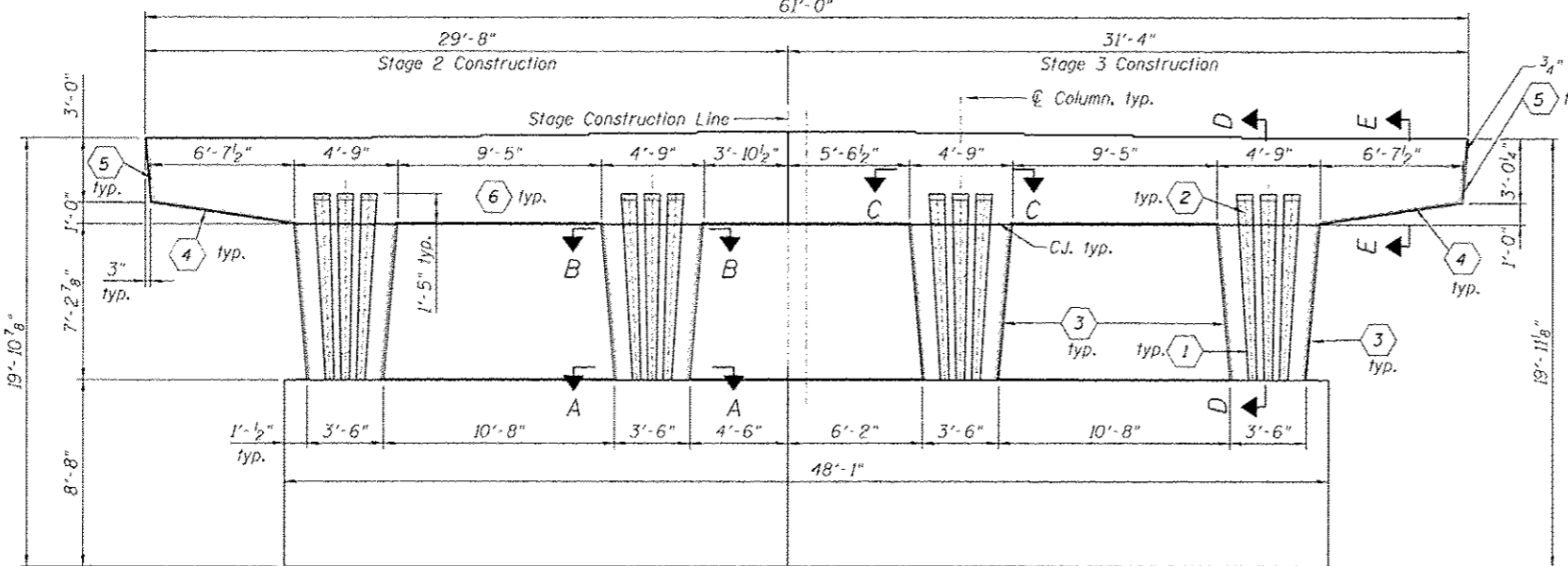
**PIER 1 END VIEW**  
(Looking West)



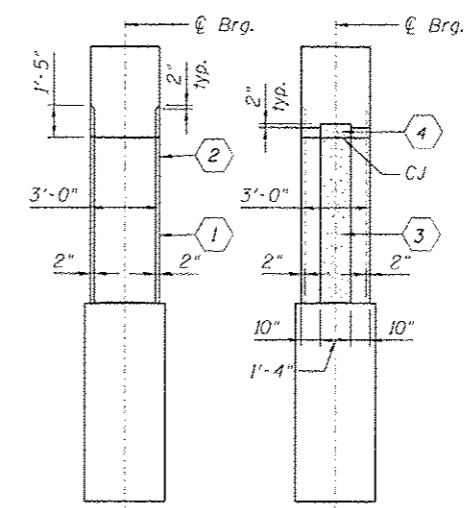
**FORM LINER PANEL 1 & 2**

**FORM LINER 4**

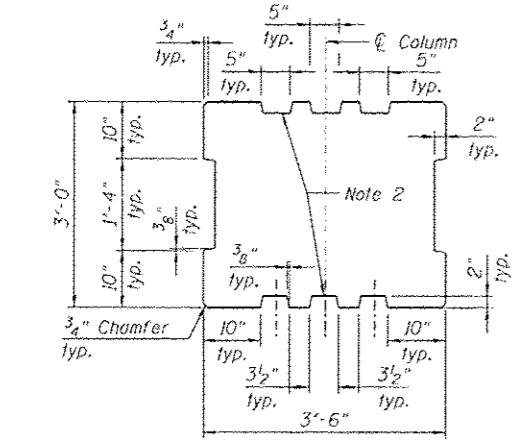
**FORM LINER 3**



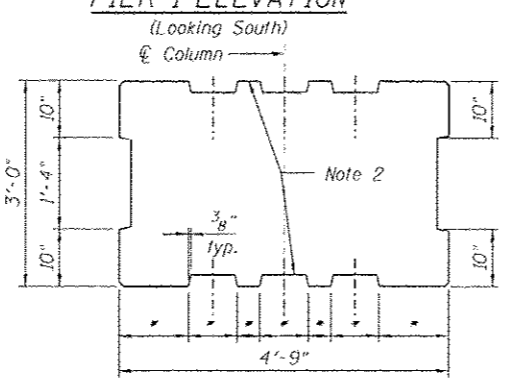
**PIER 1 ELEVATION**  
(Looking South)



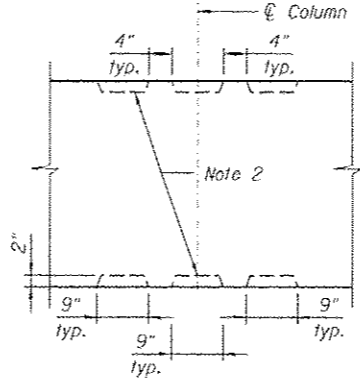
**SECTION D-D SECTION E-E**



**SECTION A-A**  
At bottom of Column



**SECTION B-B**  
\* Dimensions at top of pier form liners (panel 1) to match dimensions at bottom Form liners (panel 2)

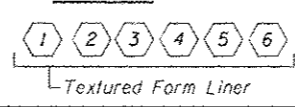


**SECTION C-C**

**NOTES:**

1. Alternate: For surface indicated as Textured Form liner (6), Contractor can chose to build large protrusion directly into three forms if a smooth uniform surface can be provided.
2. Tapered fluting - dimensions vary, see elevation profile.
3. Form liner panel (2) is continuation of panel (1A). Keep adjacent form liners aligned.
4. Hand clean and smooth the surface of the construction joint between the pier and cap.
5. Texture 1: Light Sandblast as selected from manufacturer's standard pattern selection. Texture 2: Smooth
6. Verify and coordinate all dimensions with structural and civil drawings.

**LEGEND**

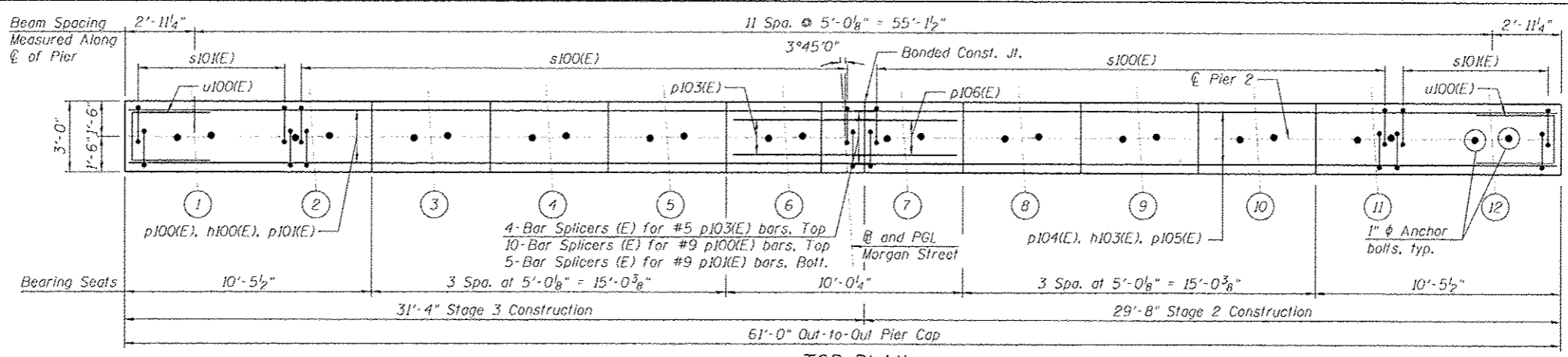


**BILL OF MATERIAL**

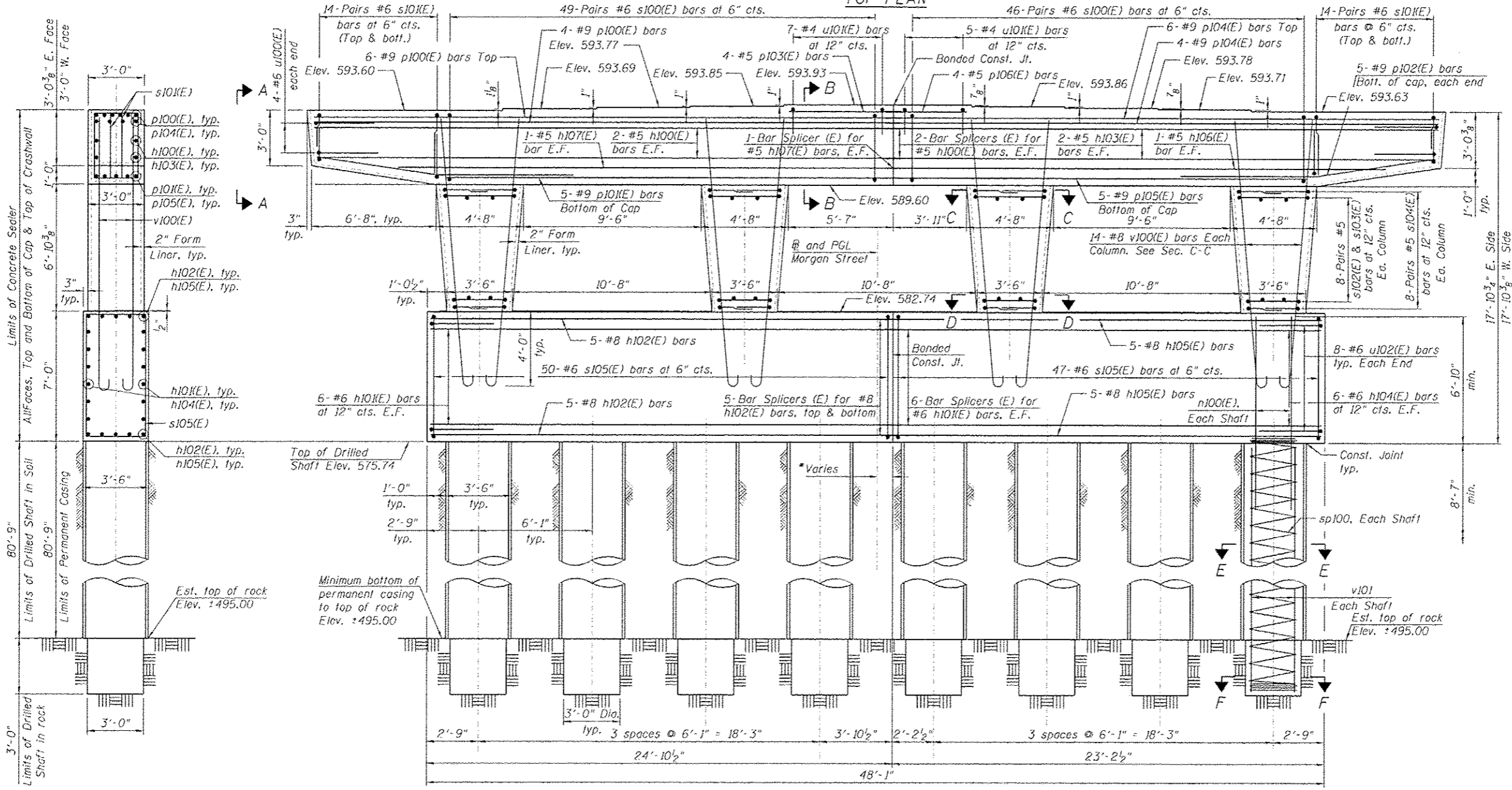
ITEM	UNIT	TOTAL
Form Liner Textured Surface	SQ FT	880

FILE PATH: C:\Users\paul\OneDrive\Desktop\Permits For The Dept\2013\2013-60W25-630-Pier1Arch.dgn





- NOTES:**
1. See Sheet S1-41 for Bill of Material, Section A-A, B-B, C-C, D-D, E-E & F-F, Bar Diagram, and Drilled Shaft details.
  2. Pour steps monolithically with cap.
  3. Space reinforcement in cap to miss anchor bolts.
  4. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.
  5. For Bearing orientation layout plan, see Sheet S1-25.



Minimum Bar Laps	
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"

END VIEW

**ELEVATION**  
(Looking North) \* 8 7/8" at South face of pier cap, 11 1/8" at North face of pier cap

Entire sheet revised

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 4415 WEST HARRISON ST.  
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 MELROSE, IL 60162  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

0161789-68W25-548-Pier2.dgn  
 USER NAME: will\_morrows  
 PLOT SCALE: 3/8"=1'-0"  
 PLOT DATE: 7/15/2013

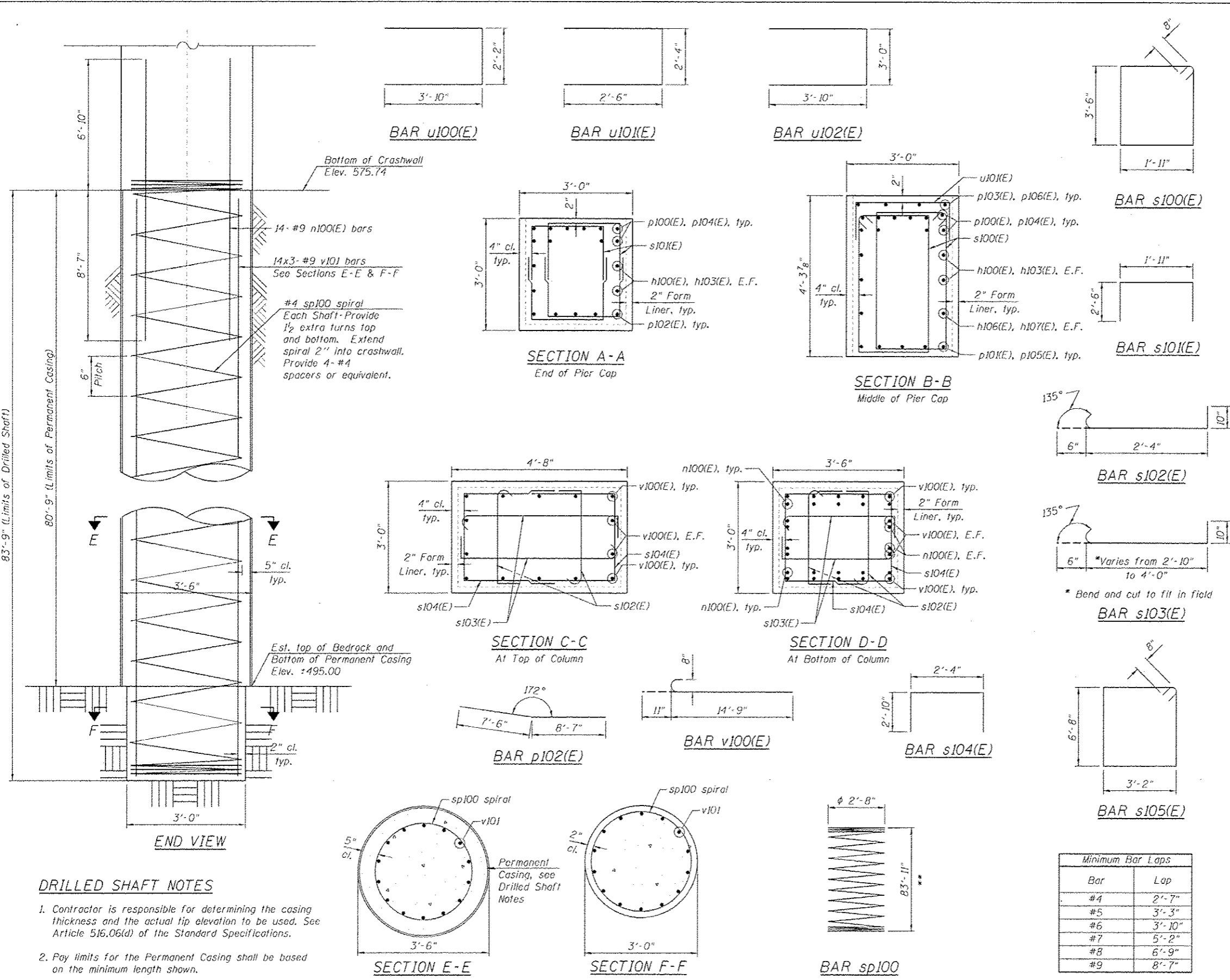
DESIGNED - MI, MAI  
 DRAWN - LAB, MAF  
 CHECKED - MAI, MI, MWM  
 DATE - 6/17/2013

REVISED - 01/19/2013 MI, WM  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 2 PLAN AND ELEVATION**  
**STRUCTURE NO. 016-1709**  
 SCALE: SHEET S1-40 OF 51 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	184
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h100(E)	4	#5	30'-9"	—
h101(E)	12	#6	24'-7"	—
h102(E)	10	#8	24'-7"	—
h103(E)	4	#5	29'-1"	—
h104(E)	12	#6	22'-11"	—
h105(E)	10	#8	22'-11"	—
h106(E)	2	#5	25'-9"	—
h107(E)	2	#5	27'-5"	—
n100(E)	112	#9	15'-5"	—
p100(E)	10	#9	30'-9"	—
p101(E)	5	#9	24'-3"	—
p102(E)	10	#9	16'-1"	—
p103(E)	4	#5	5'-8"	—
p104(E)	10	#9	29'-1"	—
p105(E)	5	#9	22'-3"	—
p106(E)	4	#5	4'-0"	—
s100(E)	190	#6	12'-2"	□
s101(E)	112	#6	6'-11"	□
s102(E)	64	#5	3'-8"	U
s103(E)	64	#5	5'-4"	U
s104(E)	64	#5	8'-0"	U
s105(E)	97	#6	21'-0"	□
sp100	8	#4	83'-11"	≡
u100(E)	8	#6	9'-10"	□
u101(E)	12	#4	7'-4"	□
u102(E)	16	#6	10'-8"	□
v100(E)	56	#8	15'-8"	—
v101	336	#9	33'-6"	—
Structure Excavation	Cu Yd	51		
Concrete Structures	Cu Yd	83.0		
Reinforcement Bars	Pound	45,940		
Reinforcement Bars, Epoxy Coated	Pound	23,380		
Permanent Casing	Foot	646		
Drilled Shaft in Soil	Cu Yd	231		
Drilled Shaft in Rock	Cu Yd	7		
Concrete Sealer	Sq Ft	2,045		
Granular Backfill for Structures	Cu Yd	76		

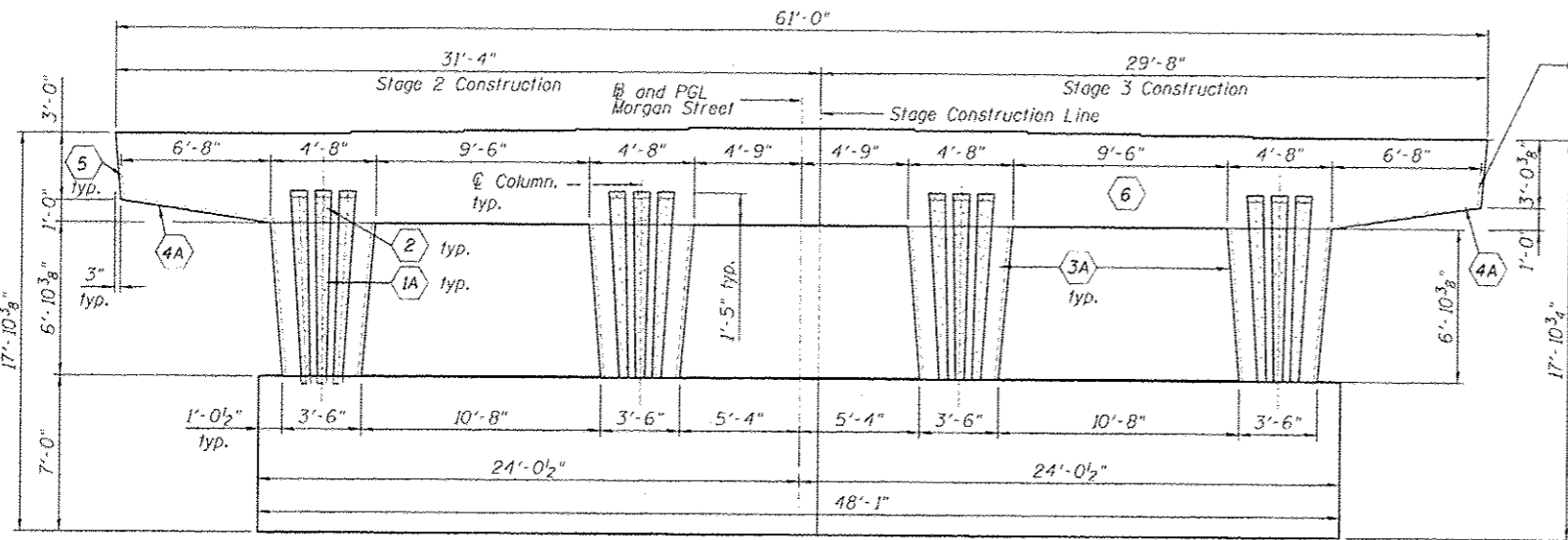
**NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars noted thus, 14x3-#5 indicates 14 lines of bars with 3 lengths of bars per line.
3. Bars equally spaced, unless otherwise noted.
4. Apply concrete sealer to all exposed concrete surfaces of the pier.
5. All edges shall have standard 3/4" chamfer.
6. Spirals are measured vertically.

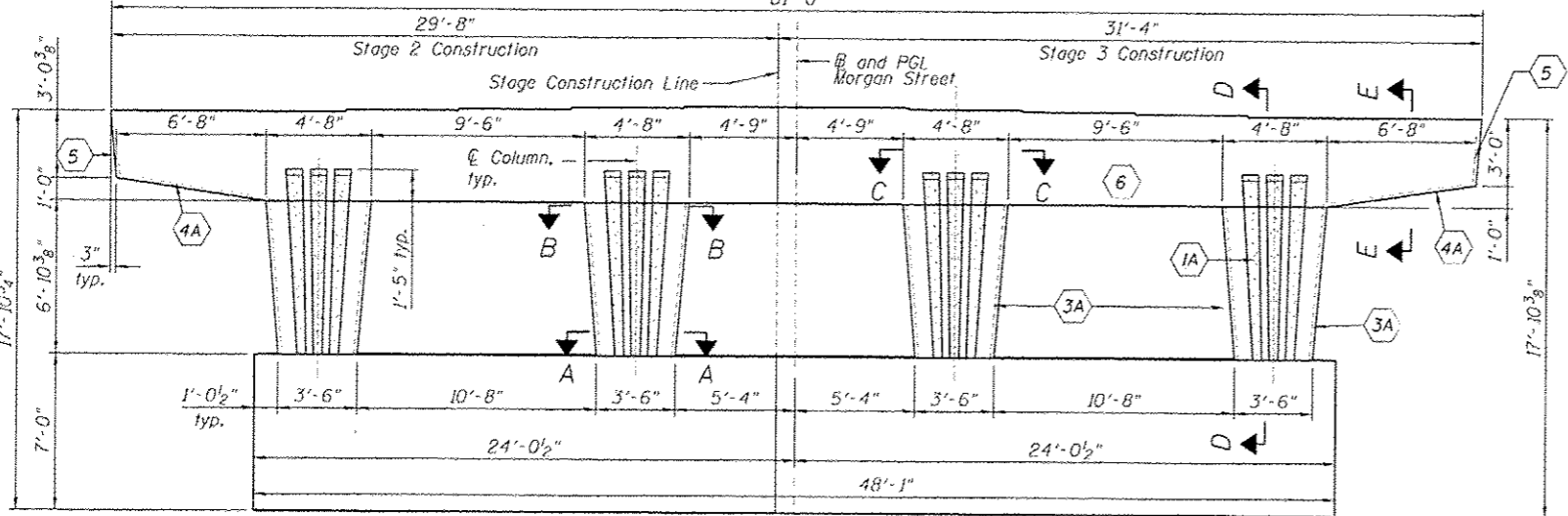
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"

**DRILLED SHAFT NOTES**

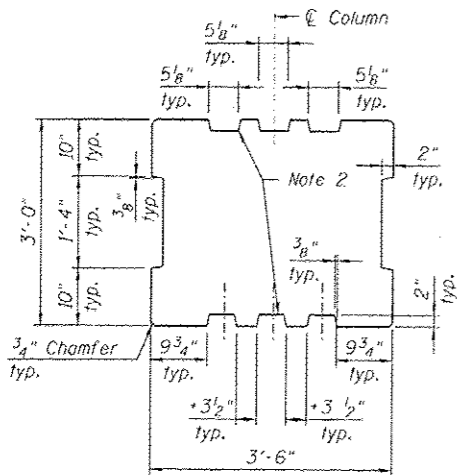
1. Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications.
2. Pay limits for the Permanent Casing shall be based on the minimum length shown.



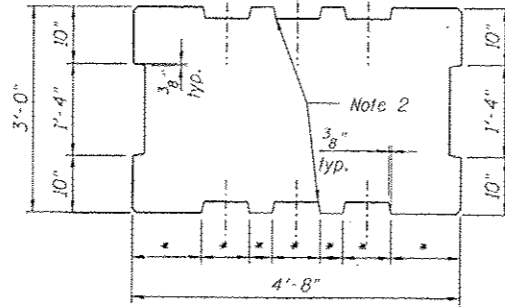
PIER 2 ELEVATION  
(Looking North)



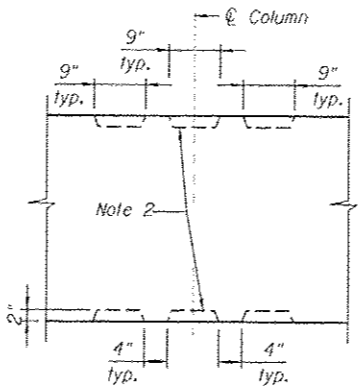
PIER 2 ELEVATION  
(Looking South)



SECTION A-A  
At Bottom of Column



SECTION B-B  
At Top of Column

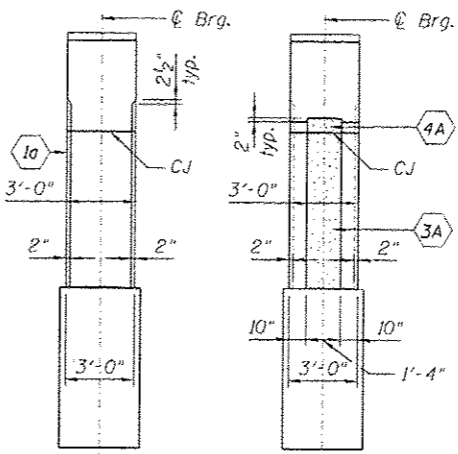


SECTION C-C

\* Dimensions at top of column form liners (panel 1) to match dimensions at bottom form liners (panel 2)

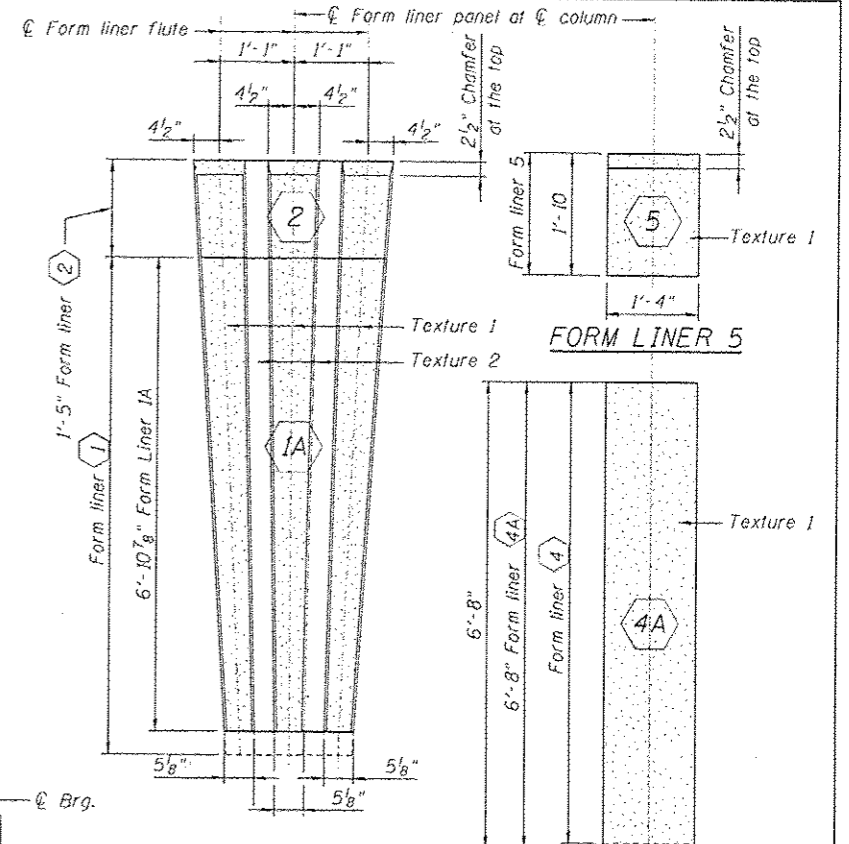
Entire sheet revised

PIER 2 END VIEW



Section D-D

Section E-E



FORM LINER PANEL  
1A & 2

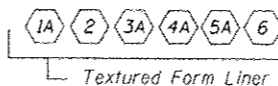
FORM LINER 4A

FORM LINER 3A

NOTES:

1. Alternate: For surface indicated as Textured Form liner 6, Contractor can chose to build large protrusion directly into the forms if a smooth uniform surface can be provided.
2. Tapered fluting - dimensions vary, see elevation profile.
3. Form liner panel (2) is continuation of panel (1A). Keep adjacent form liners aligned.
4. Hand clean and smooth the surface of the construction joint between the pier and cap.
5. For panel (1A) and (3A) liner profile is identical to liner (1) and (3), only shorter. See details on Sheet S1-39.
6. For panel (4A) liner profile is identical to panel (4), only longer. See details on Sheet S1-39.
7. Texture 1: Light Sandblast as selected from manufacturer's standard pattern selection. Texture 2: Smooth
8. Verify and coordinate all dimensions with structural and civil drawings.

LEGEND



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Form Liner Textured Surface	SQ FT	852

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSDALE, IL 60162  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

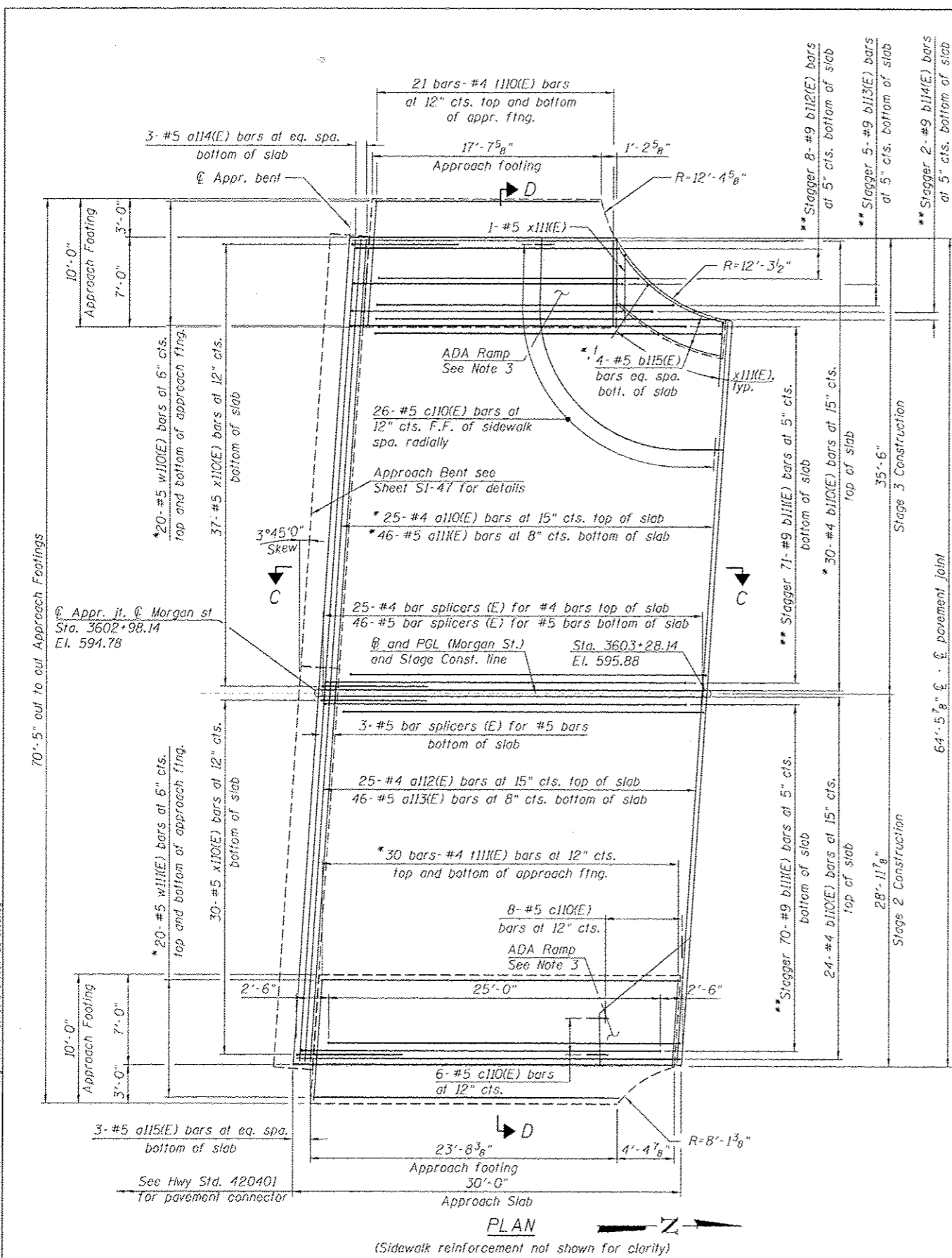
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USER NAME = will.mar.dhuss  
PLOT SCALE = 4:0.0000 1" = 4'-0"  
PLOT DATE = 7/15/2013

DESIGNED - MR	REVISED - 07/15/2013 MR
DRAWN - MR	REVISED -
CHECKED - MAI, MI	REVISED -
DATE - 6/17/2013	REVISED -

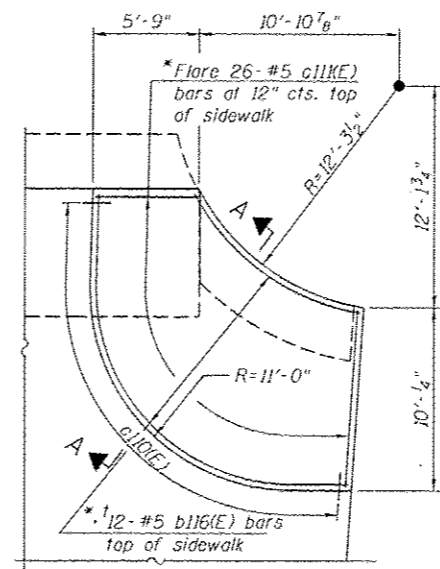
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER 2 ARCHITECTURAL DETAILS  
STRUCTURE NO. 016-1709  
SCALE: SHEET S1-42 OF 51 SHEETS STA. TO STA.

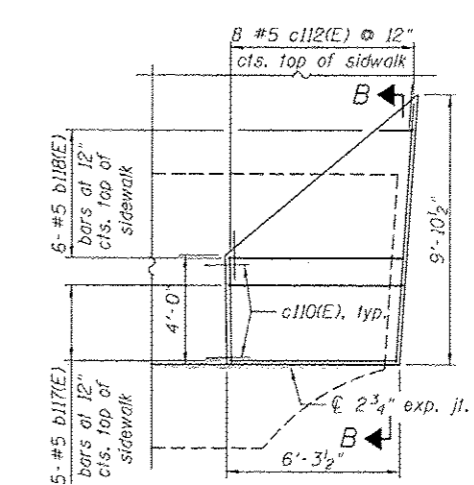
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	18C
CONTRACT NO. 60W25				
ILLINOIS FERR. AID PROJECT				



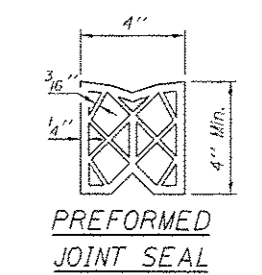
- NOTES:**
- \* Order bars at full length and cut in field to fit
  - \*\* Till bars as required to maintain clearance.
  - \*\*\* Cost included with Concrete Superstructure.
  - 1 Bend bars in field to fit curvature



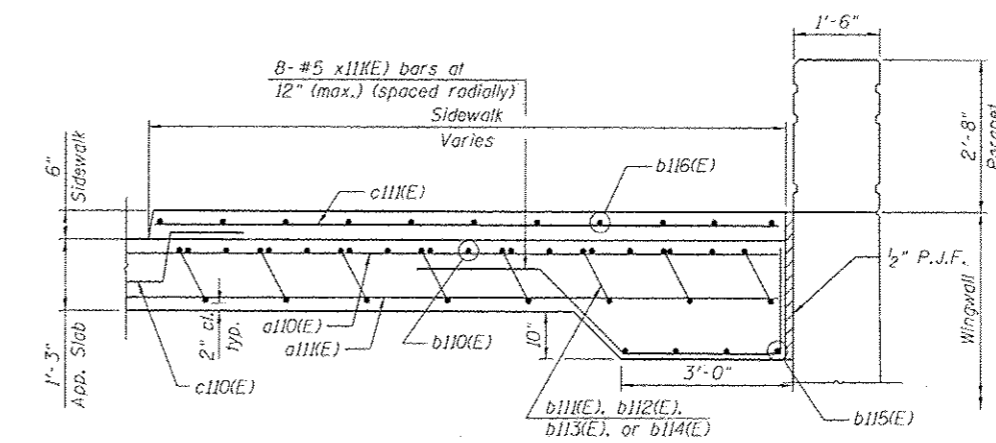
SW SIDEWALK PLAN



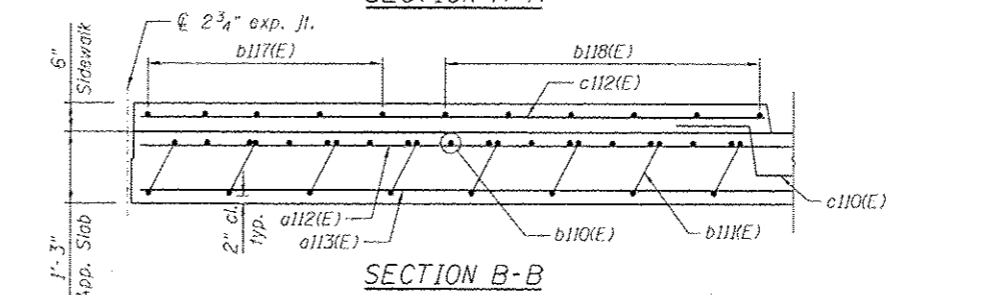
SE SIDEWALK PLAN



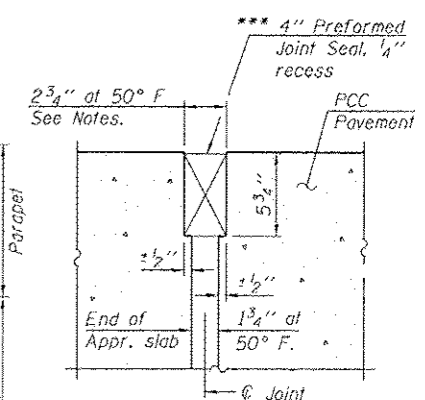
PREFORMED JOINT SEAL



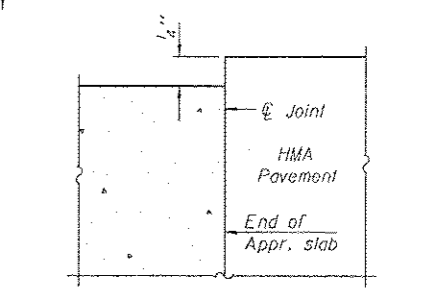
SECTION A-A



SECTION B-B



RIGID PAVEMENT DETAIL A



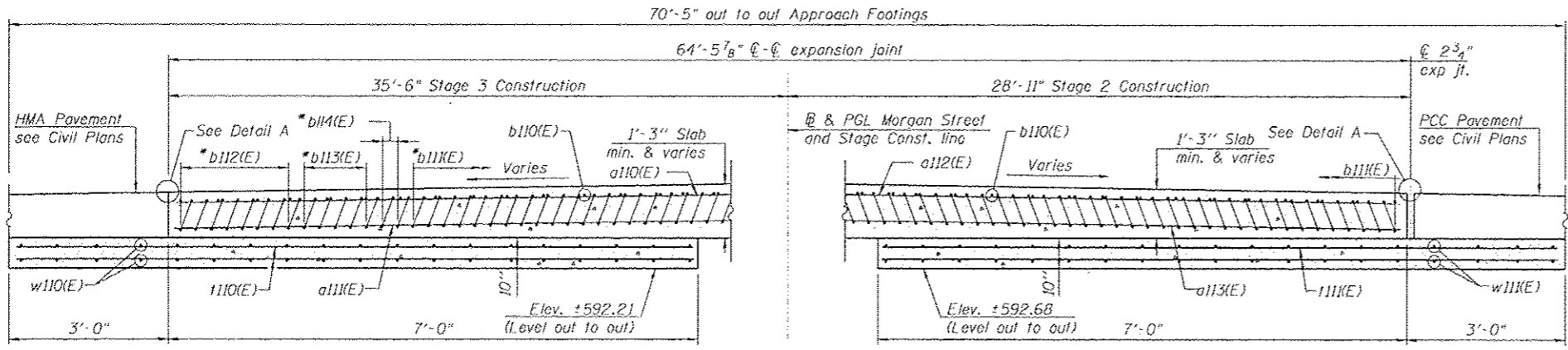
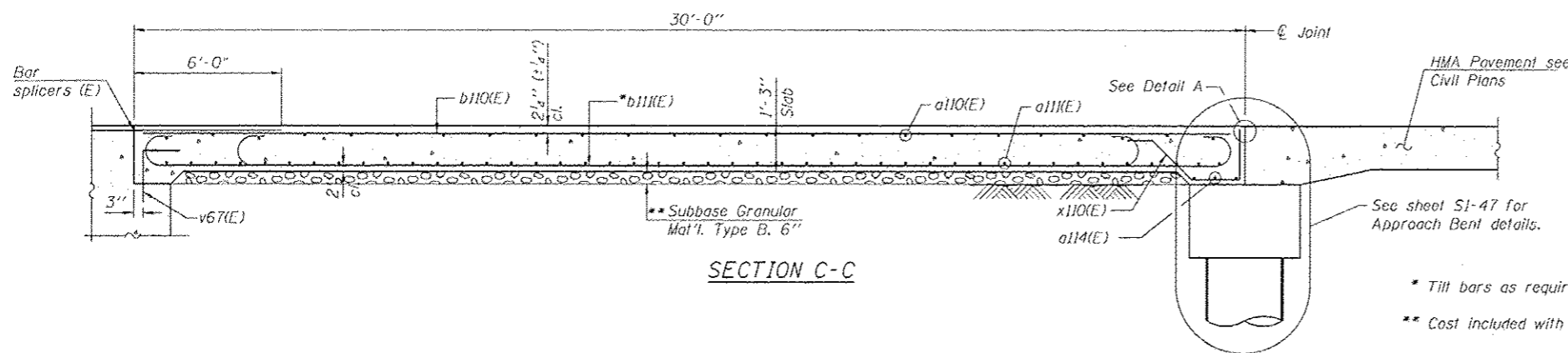
FLEXIBLE PAVEMENT DETAIL A

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 MILWAUKEE, IL 60167 PHONE: (708) 236-0900 FAX: (708) 236-0901	8161784-68x25-543-SouthApprSlab.dgn USER NAME: willmordaus PLOT SCALE: 5/8"=1'-0" PLOT DATE: 7/15/2013	DESIGNED: MI, H-1, MWM DRAWN: HK CHECKED: MAI, MI, MWM DATE: 6/17/2013	REVISED: 07/19/2013 MI, WM REVISED: REVISED: REVISED:
	Entire sheet revised		
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
	SOUTH APPROACH SLAB PLAN STRUCTURE NO. 016-1709		
	SCALE: SHEET S1-43 OF 51 SHEETS STA. TO STA.		

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 187
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

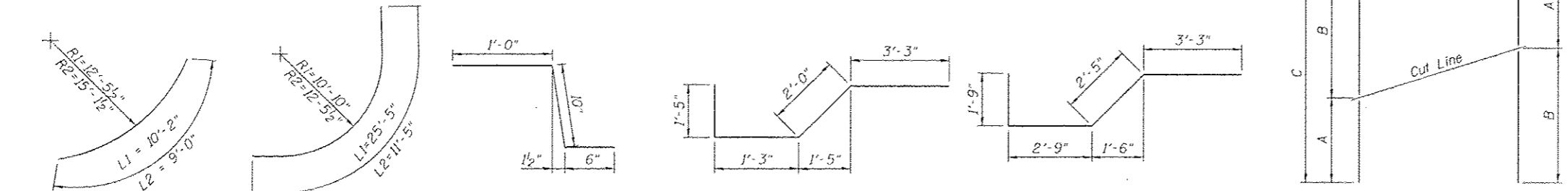
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a110(E)	25	#4	35'-3"	
a111(E)	46	#5	35'-3"	
a112(E)	25	#4	28'-8"	
a113(E)	46	#5	28'-8"	
a114(E)	3	#5	35'-2"	
a115(E)	3	#5	28'-8"	
b110(E)	54	#4	29'-8"	
b111(E)	141	#9	29'-9"	
b112(E)	8	#9	22'-9"	
b113(E)	5	#9	25'-6"	
b114(E)	2	#9	28'-9"	
b115(E)	4	#5	10'-2"	
b116(E)	12	#5	25'-5"	
b117(E)	5	#5	6'-3"	
b118(E)	3	#5	7'-3"	
c110(E)	40	#5	2'-4"	
c111(E)	26	#5	15'-9"	
c112(E)	4	#5	13'-1"	
i110(E)	42	#4	9'-8"	
i111(E)	60	#4	9'-8"	
w110(E)	40	#5	19'-2"	
w111(E)	40	#5	27'-7"	
x110(E)	67	#5	7'-11"	
x111(E)	9	#5	10'-2"	
Concrete Structures		Cu. Yd.	13.9	
Concrete Superstructure		Cu. Yd.	95.6	
Bridge Deck Grooving		Sq. Yd.	183	
Protective Coat		Sq. Yd.	213	
Reinforcement Bars, Epoxy Coated		Pound	25,170	



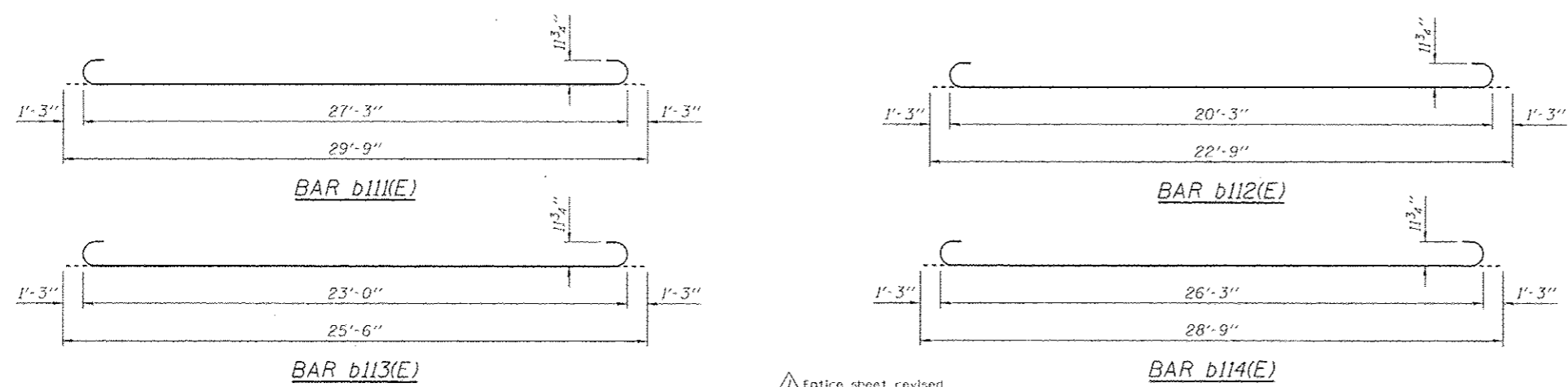
**SECTION D-D**

(See Plan on Sheet SI-43 for dimensions not shown)



**BAR TABLE SCHEDULE**

Bar	No. of Sets Req'd	No. of Bars Per Set	A	B	C
b118(E)	1	3	1'-0"	6'-3"	7'-3"
c112(E)	1	4	3'-7"	9'-6"	13'-1"



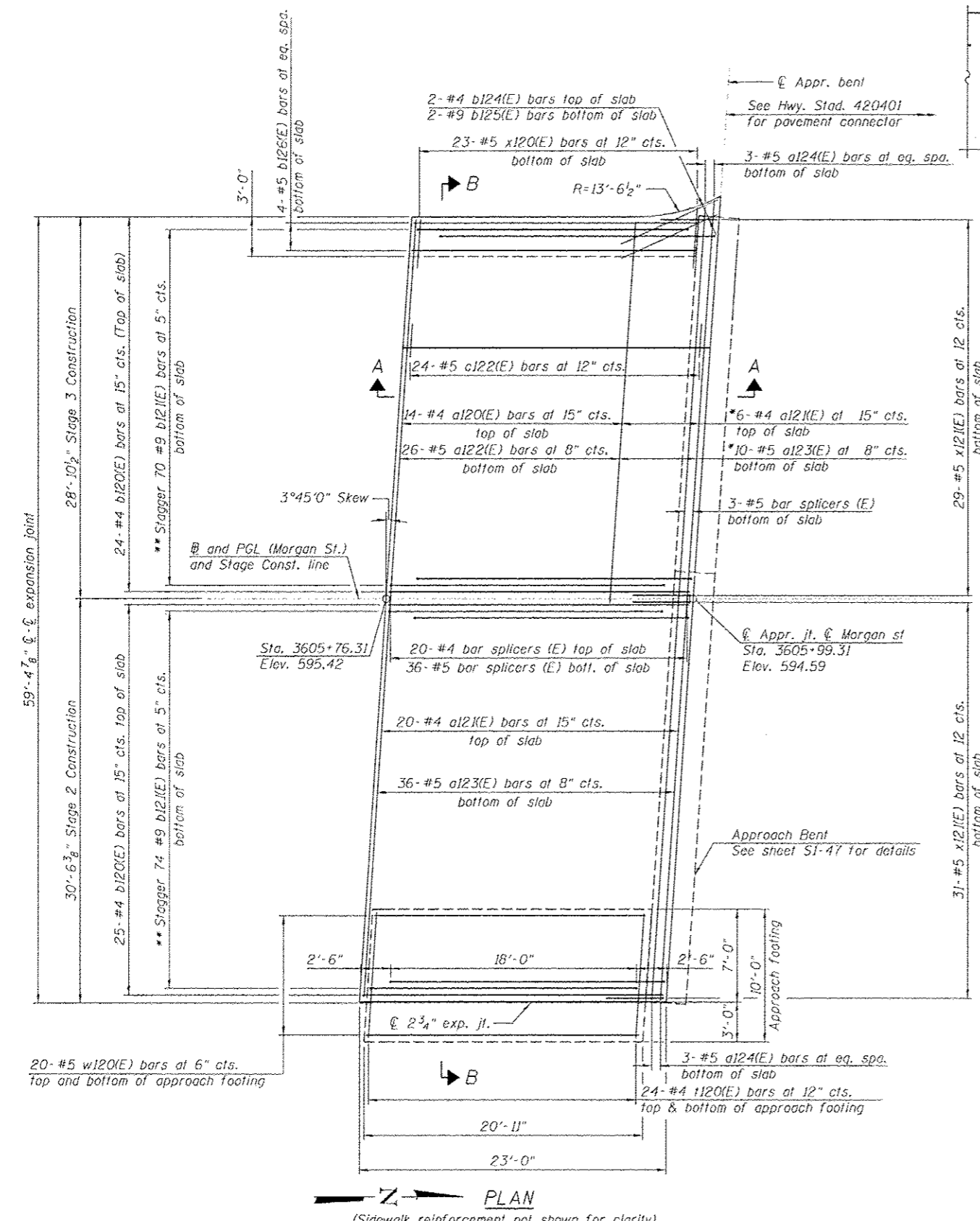
**NOTES:**

- See Sheet SI-43 for Detail A.
- Approach slab and sidewalk concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v67(E) bar details, see Sheet SI-29.
- The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
- For bar splicer details, see Sheet SI-48.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see Sheet SI-28.

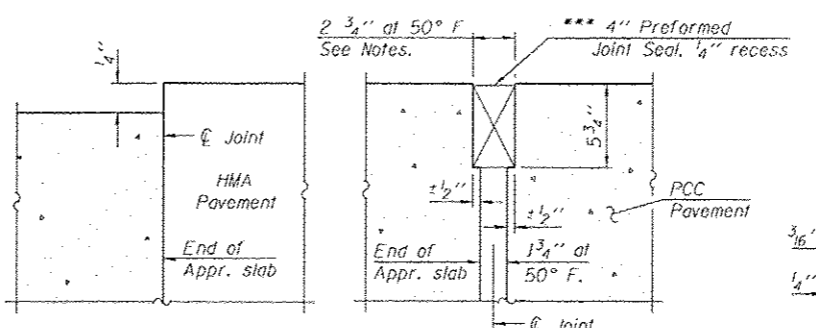
<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60167 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161779-60W25-544-SouthApprSlab2.dgn USER NAME: will.madoux PLOT SCALE: 60.0000 1/1 in. PLOT DATE: 7/15/2013	DESIGNED - MI, H4 DRAWN - HF CHECKED - MAI, MI, WM DATE - 6/17/2013	REVISED - 07/19/2013 MI, WM REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH APPROACH SLAB SECTIONS AND DETAILS STRUCTURE NO. 016-1709	SCALE: SHEET SI-44 OF SI SHEETS STA. TO STA.	F.A.I. RTE. 90/91/290 SECTION 2013-00TR COUNTY COOK TOTAL SHEETS 317 SHEET NO. 185 CONTRACT NO. 60W25	ILLINOIS FED. AID PROJECT
	Entire sheet revised							



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FLEXIBLE PAVEMENT

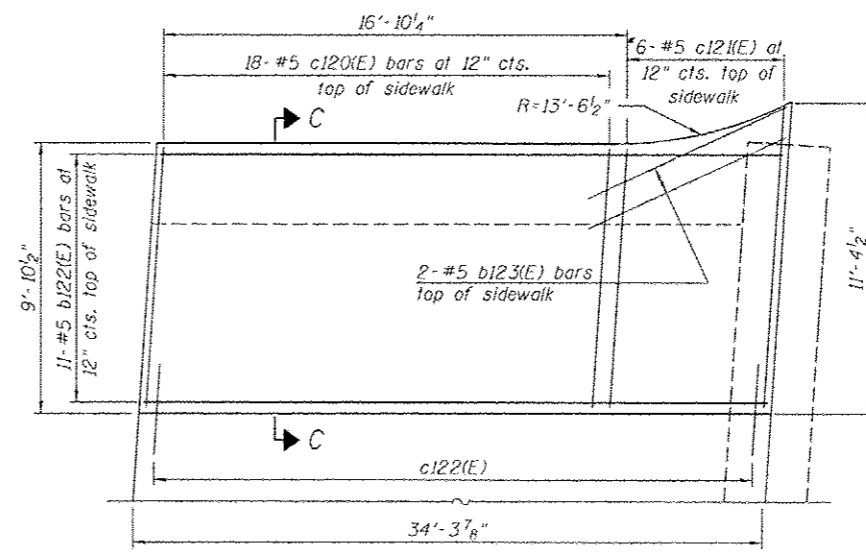


DETAIL A

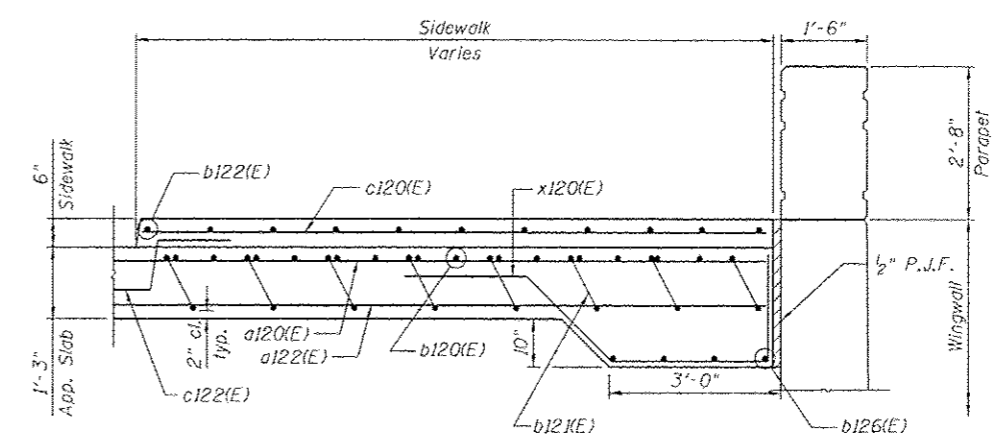
PREFORMED JOINT SEAL

NOTES:

- See Sheet S1-46 for Sections A-A and B-B.
  - a/20(E), a/21(E), a/22(E) and a/23(E) bar spacings measured along C Rdwy.
  - Provide 1/2\" P.J.F. along the entire length of the west edge of the approach slab sidewalk adjacent to the wall parapet. See Section B-B on Sheet S1-46.
  - For sidewalk working points, see Sheet S1-15 for details.
- \* Order bars at full length and cut in field to fit.  
 \*\* Tilt bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.



NW SIDEWALK PLAN

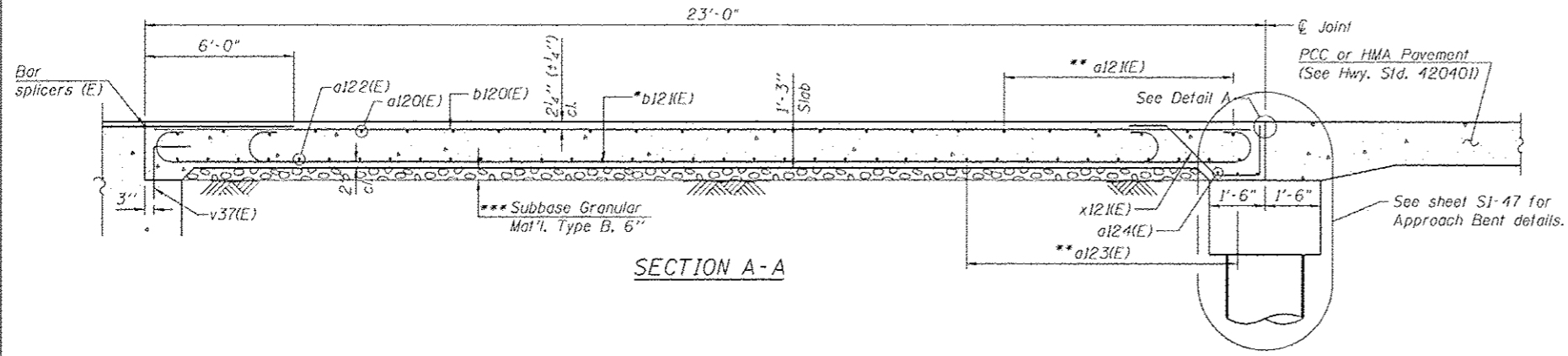


SECTION C-C

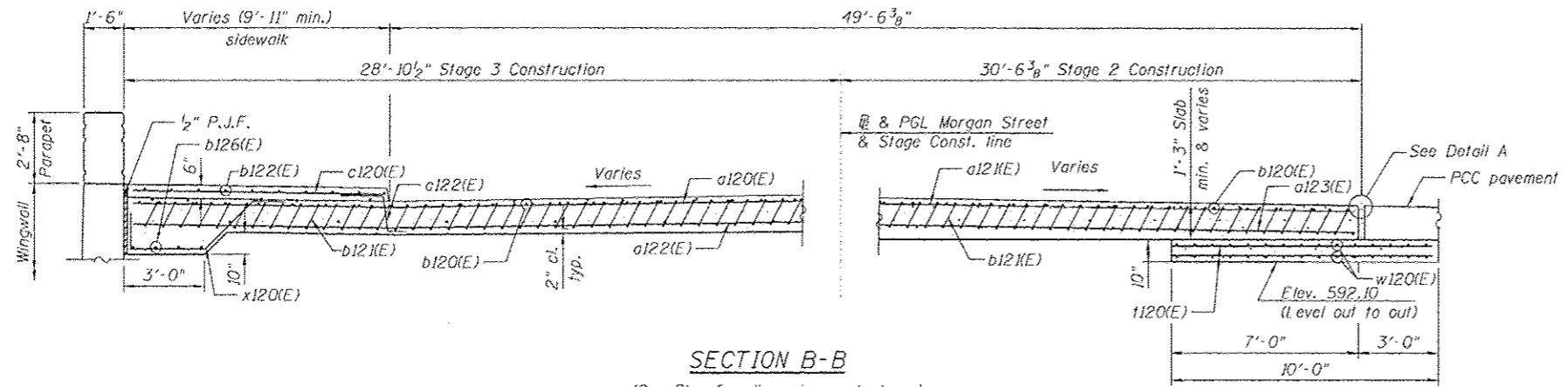
<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE 1081 236-0900 FAX 1081 236-0901	0161789-60W25-545-Sub-Appr-Slab1.dwg	DESIGNED - MI, PH, MWM	REVISED - 07/19/2013 MI, WM	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>NORTH APPROACH SLAB PLAN</b> <b>STRUCTURE NO. 016-1709</b>				F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.						
	USER NAME: wilsonadams	DRAWN - PH	REVISED -							90/9/290	2013-007R	COOK	317	189						
	PLOT SCALE: 5/8=0000 1/2\"	CHECKED - M4L, MI, MWM	REVISED -							CONTRACT NO. 60W25										
	DATE: 6/17/2013	DATE: 6/17/2013	REVISED -							ILLINOIS FEDERAL AID PROJECT										
	PLOT DATE: 7/15/2013	SCALE: SHEET S1-45 OF S1 SHEETS STA. TO STA.																		
	Entire sheet revised 07/19/2013 MI, WM																			

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a120(E)	14	#4	28'-6"	—
a12(E)	26	#4	30'-1"	—
a122(E)	26	#5	28'-6"	—
a123(E)	46	#5	30'-1"	—
a124(E)	6	#5	30'-1"	—
b120(E)	49	#4	22'-8"	—
b12(E)	144	#9	22'-10"	—
b122(E)	11	#5	22'-8"	—
b123(E)	2	#5	8'-0"	—
b124(E)	2	#4	8'-0"	—
b125(E)	2	#9	8'-0"	—
b126(E)	4	#5	20'-1"	—
c120(E)	18	#5	9'-6"	—
c12(E)	6	#5	11'-1"	—
c122(E)	24	#5	2'-4"	—
i120(E)	48	#4	9'-8"	—
w120(E)	40	#5	20'-7"	—
x120(E)	23	#5	10'-2"	—
x12(E)	60	#5	7'-11"	—
Concrete Structures			Cu. Yd.	6.5
Concrete Superstructure			Cu. Yd.	72.8
Bridge Deck Grooving			Sq. Yd.	124
Protective Coat			Sq. Yd.	154
Reinforcement Bars, Epoxy Coated			Pound	17,760



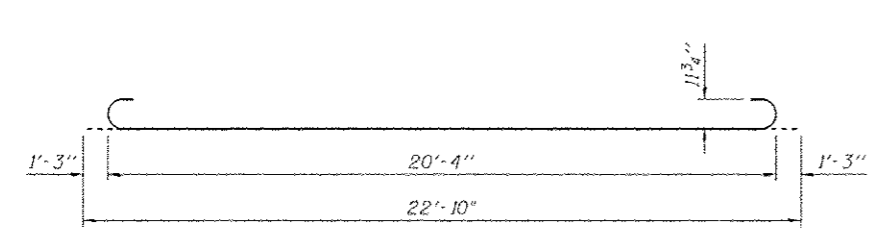
**SECTION A-A**



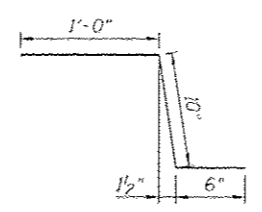
**SECTION B-B**  
(See Plan for dimensions not shown)

**NOTES:**

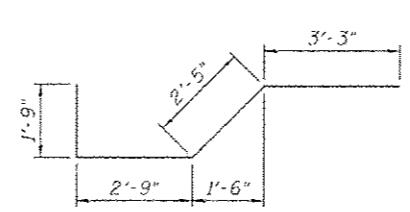
- See Sheet SI-45 for Detail A.
- Approach slab and sidewalk concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v37(E) bar details, see Sheet SI-34.
- The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.
- For bar splicer details, see Sheet SI-48.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet SI-33 and SI-35.
- Tilt bars as required to maintain clearance.
- Order bars at full length and cut in field to fit.
- Cost included with Concrete Superstructure.



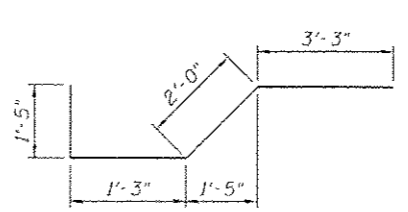
**BAR b12(E)**



**BAR c122(E)**



**BAR x120(E)**



**BAR x12(E)**

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ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
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RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60122  
PHONE: (708) 236-0500  
FAX: (708) 236-0501

DESIGNED - MI, PH, MWM  
DRAWN - PH  
CHECKED - MAJ, MI, MWM  
DATE - 6/17/2013

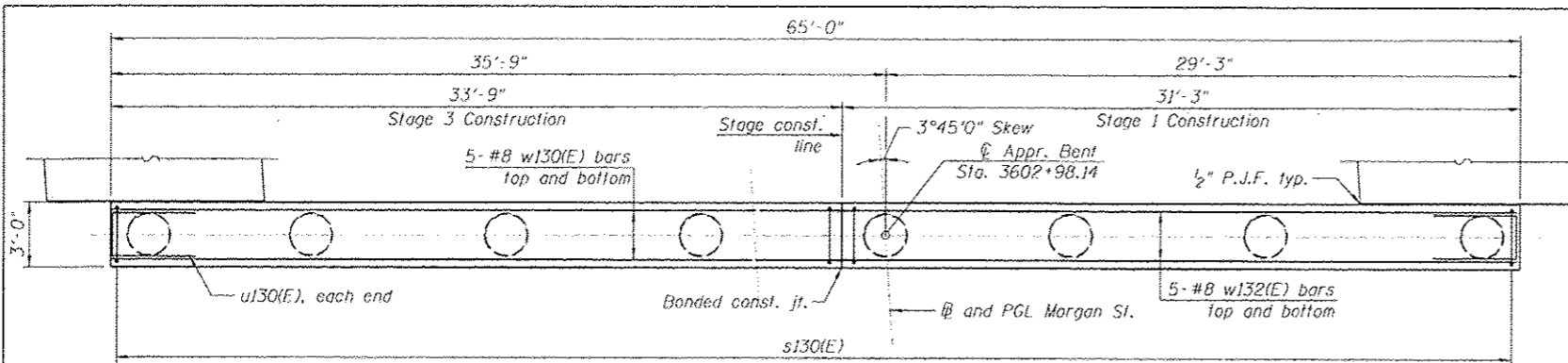
REVISD - MI, WM  
REVISD -  
REVISD -  
REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

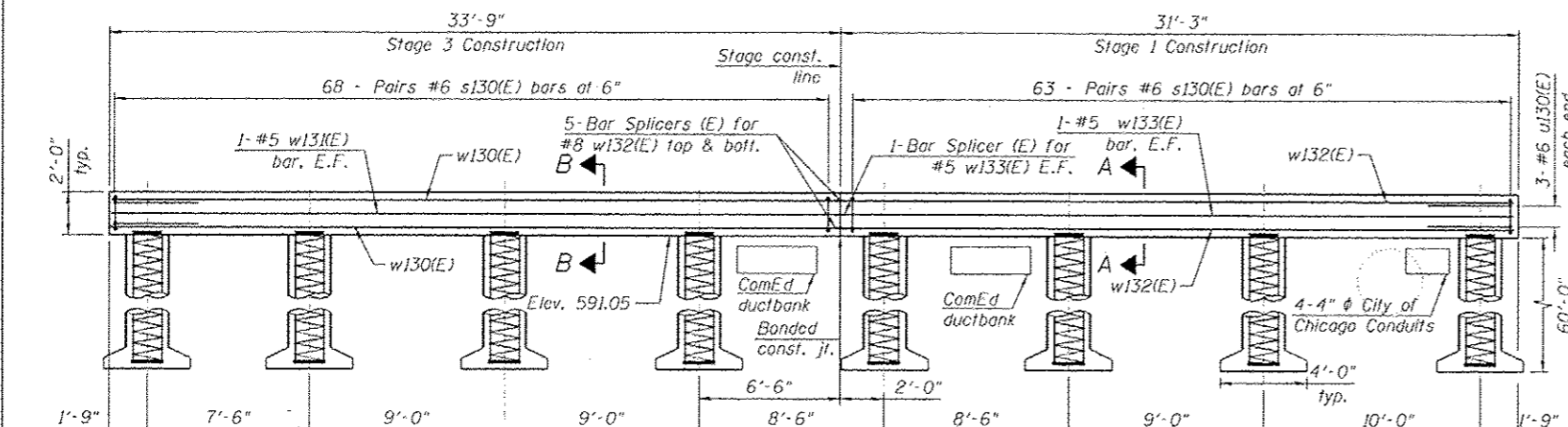
**NORTH APPROACH SLAB SECTIONS AND DETAILS  
STRUCTURE NO. 016-1709**

SCALE: SHEET SI-46 OF 51 SHEETS STA. TO STA.

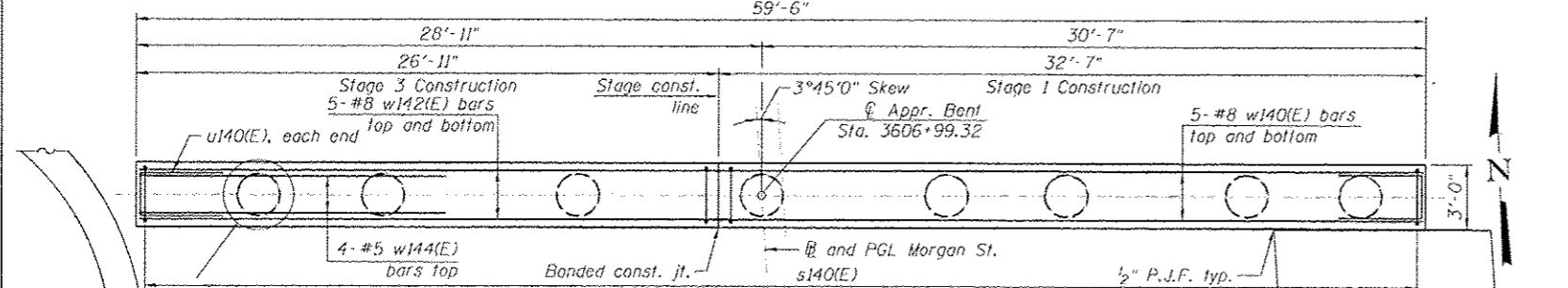
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	190
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



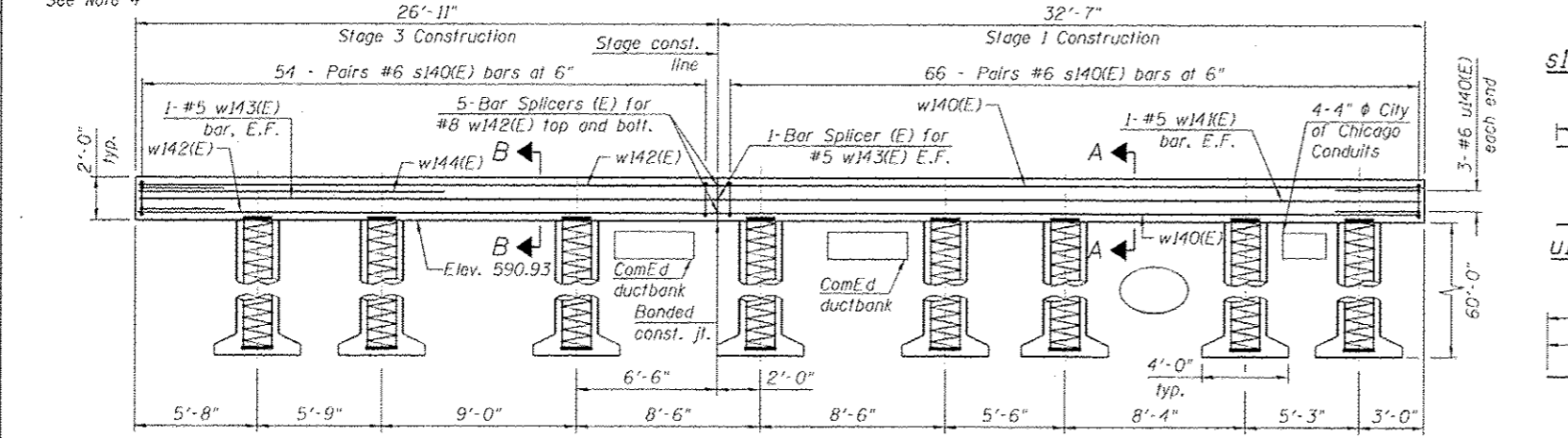
PLAN OF SOUTH APPROACH BENT



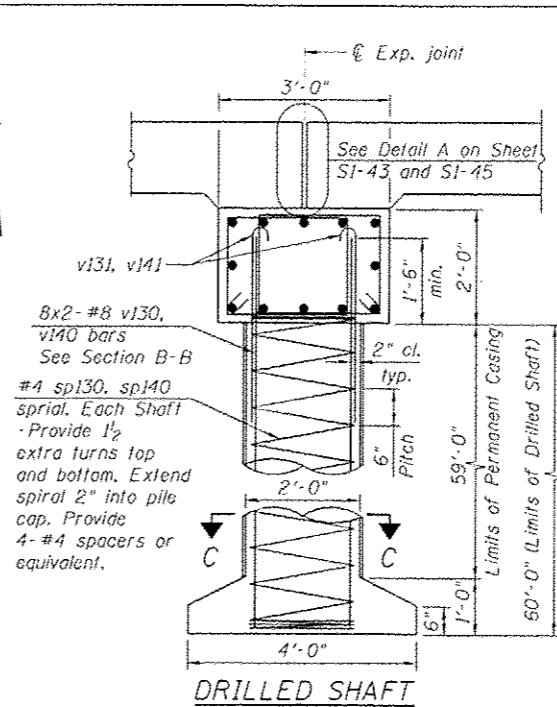
ELEVATION (Looking North)



PLAN OF NORTH APPROACH BENT



ELEVATION (Looking North)

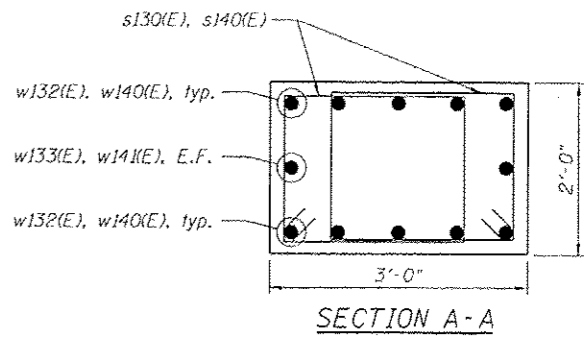


DRILLED SHAFT

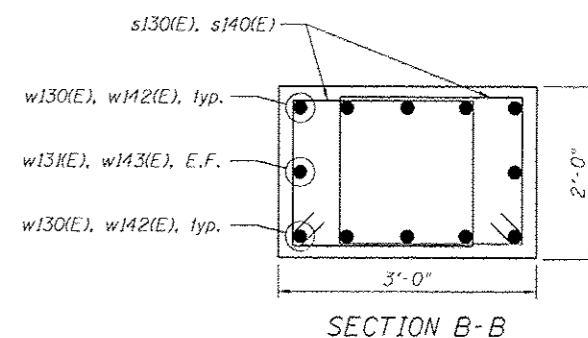
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"

NOTES:

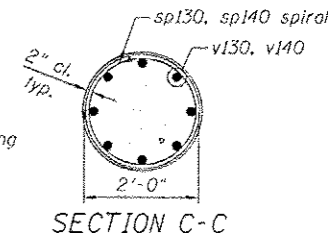
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars indicated thus, 8x2-#5 etc., indicates 8 lines of bars with 2 lengths per line.
3. All edges shall have standard 3/4" chamfer.
4. Installation of drilled shaft requires coring through existing Northwest wingwall footing. Additional costs included in Drilled Shaft in Soil.
5. Spirals are measured vertically.



SECTION A-A



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
w130(E)	10	#8	33'-6"	—
w133(E)	2	#5	33'-6"	—
w132(E)	10	#8	31'-0"	—
w133(E)	2	#5	31'-0"	—
s130(E)	262	#6	8'-8"	□
sp130	8	#4	60'-2"	▨
u130(E)	6	#6	10'-3"	—
v130	128	#8	34'-2"	—
v131	64	#8	9'-5"	—
Structure Excavation		Cu Yd	34	
Concrete Structures		Cu Yd	14.4	
Reinforcement Bars		Pound	16,753	
Reinforcement Bars, Epoxy Coated		Pound	5,360	
Permanent Casing		Foot	480	
Drilled Shaft in Soil		Cu Yd	56	

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
w140(E)	10	#8	32'-4"	—
w141(E)	2	#5	32'-4"	—
w142(E)	10	#8	26'-8"	—
w143(E)	2	#5	26'-8"	—
w144(E)	4	#8	14'-0"	—
s140(E)	240	#6	8'-8"	□
sp140	8	#4	60'-2"	▨
u140(E)	6	#6	10'-3"	—
v140	128	#8	34'-2"	—
v141	64	#8	9'-5"	—
Structure Excavation		Cu Yd	31	
Concrete Structures		Cu Yd	13.2	
Reinforcement Bars		Pound	16,753	
Reinforcement Bars, Epoxy Coated		Pound	5,070	
Permanent Casing		Foot	480	
Drilled Shaft in Soil		Cu Yd	56	

FILE PATH: C:\Users\miller\Desktop\Projects\For The Dept\016709-60W29-547-PJABent.dwg

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RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSBIE, IL 60132  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

0161709-60W29-547-PJABent.dwg  
USER NAME: wjllm@hbm.com  
PLOT SCALE: 4/8" = 1'-0"  
PLOT DATE: 7/15/2013

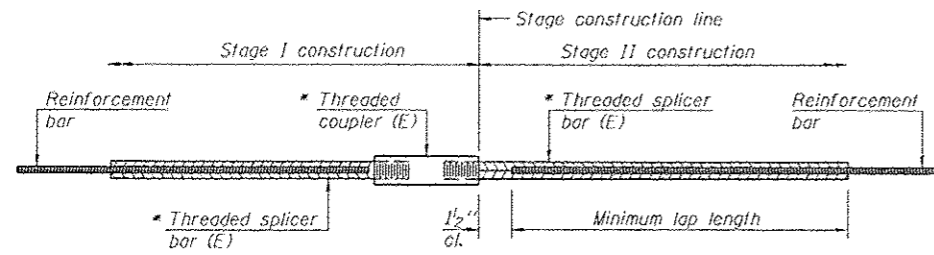
DESIGNED - MAF, MRV  
DRAWN - MWM, HH  
CHECKED - MI, MAI  
DATE - 6/17/2013

REVISION - A  
REVISION -  
REVISION -  
REVISION -

07/15/2013 MI, WM  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOUTH AND NORTH APPROACH PILE BENT SUPPORT  
STRUCTURE NO. 016-1709  
SCALE: SHEET SI-47 OF 51 SHEETS STA. TO STA.

F.A.I. R.T.E.  
90/94/290  
SECTION  
2013-007R  
COUNTY  
COOK  
TOTAL SHEETS  
317  
SHEET NO.  
191  
CONTRACT NO. 60W29



**STANDARD BAR SPLICER ASSEMBLY**

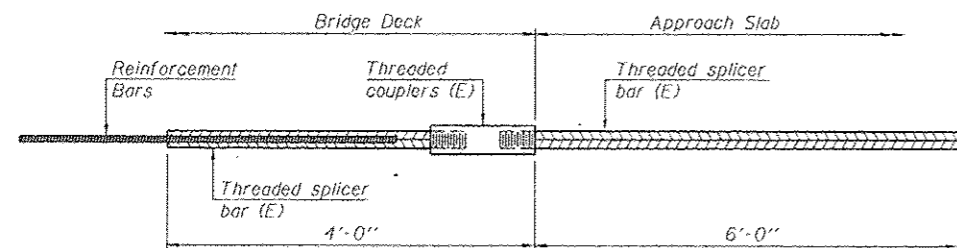
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

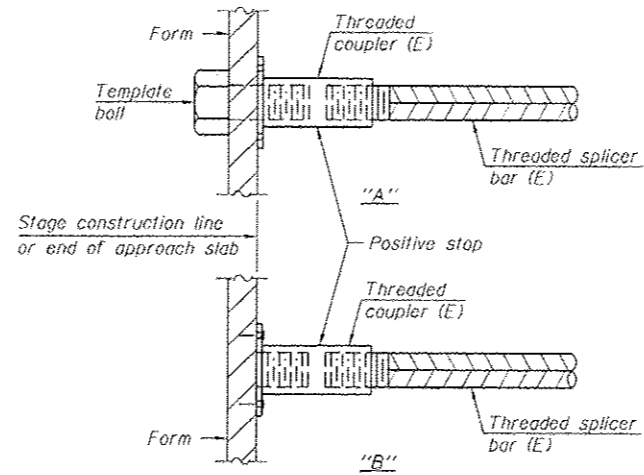
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	6591	Table 5
Pier 1	#5	10	Table 5
Pier 1	#6	16	Table 5
Pier 1	#8	10	Table 5
Pier 1	#9	15	Table 5
Pier 2	#5	10	Table 5
Pier 2	#6	12	Table 5
Pier 2	#8	10	Table 5
Pier 2	#9	15	Table 5
South Approach	#4	25	Table 5
South Approach	#5	49	Table 5
North Approach	#4	20	Table 5
North Approach	#5	36	Table 5
South Appr. Bent	#8	10	Table 5
South Appr. Bent	#5	2	Table 5
North Appr. Bent	#8	10	Table 5
North Appr. Bent	#5	2	Table 5



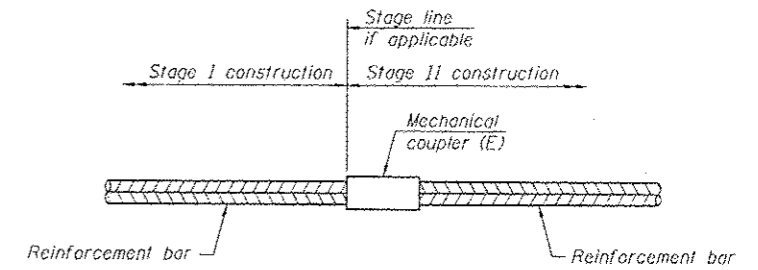
**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



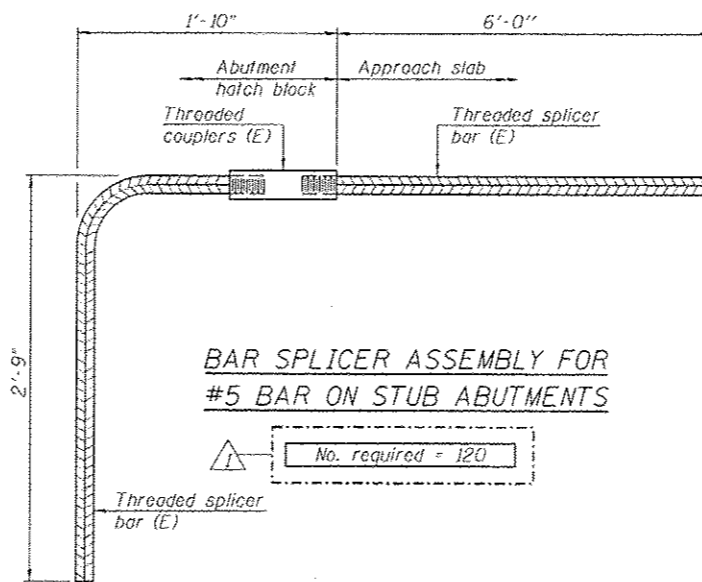
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 120

**NOTES**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 50B of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE PATH: C:\Users\m11\OneDrive\Desktop\Projects - For The Day\0161709-REVISED-54B-BarSplicer.dgn

BSD-1

1-27-12

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSDALE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0903	0161709-00W25-54B-BarSplicer.dgn USER NAME: m11.mardouss PLOT SCALE: 0.1, 0.025 1/2" = 1" PLOT DATE: 7/15/2013	DESIGNED - MI, LAB DRAWN - LAB CHECKED - MAL, MI, JUS DATE - 6/17/2013	REVISED - 07/19/2013 MI, LAB REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS</b> <b>STRUCTURE NO. 016-1709</b>	P.A.L. RTE. 90/94/290 SECTION 2013-007R COUNTY COOK TOTAL SHEETS 317 SHEET NO. 192	CONTRACT NO. 60W25 ILL. INDISTIFIED. AID PROJ. 021
	SCALE: SHEET 51-48 OF 51 SHEETS STA. TO STA.						



# BORING LOG 2113-B-01

Page 1 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **CIRCLE INTERCHANGE RECONSTRUCTION**  
Location: **Chicago, IL**

Datum: NGVD  
Elevation: 594.97 ft  
North: 1898089.14 ft  
East: 1169854.00 ft  
Station: 3605+74.45  
Offset: 08.76 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
594.0	2.75-inch thick ASPHALT --PAVEMENT--														
593.8	11.25-inch thick CONCRETE --PAVEMENT--														
	Loose to very dense, brown SANDY LOAM to SAND, trace gravel														
	--FILL--														
		1		14	26	33	NP	31				11	0	1	28
		2		12	10	9	NP	18				12	1	1	28
		3		9	9	7	NP	25				13	0	1	28
		4		4	6	6	NP	28				14	0	1	28
		5		8	6	7	NP	36				15	0	1	27
		6		3	4	4	NP	43				16	1	1	26
579.5	Very soft to medium stiff, gray CLAY to SILTY CLAY														
		7		0	1	1	B	0.33	23						
		8		0	0	1	B	0.16	25						
		9		0	0	0	B	0.08	26						
		10		0	1	1	B	0.08	26						

### GENERAL NOTES

Begin Drilling **02-18-2013** Complete Drilling **02-24-2013**  
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR**  
 Driller **R&J** Logger **F.Bozga** Checked by **C. Marin**  
 Drilling Method **2.25" SSA to 15', Mud Rotary 15' thereafter**

### WATER LEVEL DATA

While Drilling  **13.00 ft**  
 At Completion of Drilling  **MUD (10')**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Entire sheet revised



# BORING LOG 2113-B-01

Page 2 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM**  
Project: **CIRCLE INTERCHANGE RECONSTRUCTION**  
Location: **Chicago, IL**

Datum: NGVD  
Elevation: 594.97 ft  
North: 1898089.14 ft  
East: 1169854.00 ft  
Station: 3605+74.45  
Offset: 08.76 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
593.9	Sliff to hard, gray SILTY CLAY LOAM, trace gravel														
	--L <sub>1</sub> (%)=28, P <sub>L</sub> (%)=15-- --%Gravel=2.2-- --%Sand=16.9--55 --%Silt=54.8-- --%Clay=26.1-- --A-6 (8)--														
		17		3	5	7	B	1.97	16			22	14	25	37
		18		6	9	14	B	5.82	13			23	17	26	47
		19		6	8	14	B	2.13	22			24	40	50/4	NP
		20		7	13	15	NP	20	20			25	50/3	NP	14
		21		19	32	41	P	4.50	12						
508.0	Very dense, gray SANDY LOAM														
528.2	Medium dense, gray SILTY LOAM, trace clay lenses														
	--%Gravel=1.1-- --%Sand=6.7-- --%Silt=77.2--70 --%Clay=15.0-- --A-4 (0)--														
503.0	Very dense, gray GRAVELLY SAND, some dolostone fragments														
494.0	--AUGER REFUSAL--														
	Boring terminated at 96.00 ft														

### GENERAL NOTES

Begin Drilling **02-18-2013** Complete Drilling **02-24-2013**  
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR**  
 Driller **R&J** Logger **F.Bozga** Checked by **C. Marin**  
 Drilling Method **2.25" SSA to 15', Mud Rotary 15' thereafter**

### WATER LEVEL DATA

While Drilling  **13.00 ft**  
 At Completion of Drilling  **MUD (10')**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENG\11000401.GPJ WANGENG.GDT 3/16/13

WANGENG\11000401.GPJ WANGENG.GDT 3/16/13

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INVESTIGATION & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSDALE, IL 60162  
PHONE: 630-236-0900  
FAX: 630-236-0901

DESIGNED - LAM  
DRAWN - LAM  
CHECKED - ML, MAF  
DATE - 6/17/2013

REVISED - 01/19/2013 ML, JCS  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS I  
STRUCTURE NO. 016-1709

SCALE: SHEET 51-49 OF 51 SHEETS STA. TO STA.

F.A.I. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	193
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	







# BORING LOG 2113-B-03

Page 1 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

Client: **AECOM**  
Project: **CIRCLE INTERCHANGE RECONSTRUCTION**  
Location: **Chicago, IL**

Datum: NGVD  
Elevation: 594.20 ft  
North: 1897826.77 ft  
East: 1169837.46 ft  
Station: 3603+12.67  
Offset: 15.39 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
593.8	5-inch thick ASPHALT --PAVEMENT--														
592.0	11-inch thick CONCRETE --PAVEMENT--														
	Very loose to loose, brown, fine SAND, trace gravel and brick fragments --FILL--	1	X	1	2 3 4	NP	18			11	X	11	0 0 2	0.08	26
		2	X	2	2 1 2	NP	16			30	X	12	0 1 1	0.08	28
		3	X	3	1 3 3	NP	26				X	13	0 1 1	0.25	26
586.2	Medium stiff to stiff, gray SILTY CLAY LOAM, trace gravel and brick fragments --FILL--10	4	X	4	1 2 3	P	43		--L <sub>c</sub> (%)=33, P <sub>L</sub> (%)=15-- --%Gravel=1.0-- --%Sand=15.5--35-- --%Silt=49.9-- --%Clay=33.6-- --A-6 (14)--						
		5	X	5	1 2 3	B	21				X	14	0 0 2	0.33	27
551.2	Very soft to soft, gray CLAY to SILTY CLAY	6	X	6	0 2 2	B	38			40	X	14	0 0 2	0.33	27
		7	X	7	2 1 1	B	28			45	X	15	0 1 3	0.41	25
		8	X	8	0 1 2	B	27				X	16	2 3 3	0.33	22
		9	X	9	0 1 1	B	27								
		10	X	10	0 0 0	B	29								

### GENERAL NOTES

Begin Drilling **02-15-2013** Complete Drilling **02-18-2013**  
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR**  
 Driller **R&J** Logger **F.Bozga** Checked by **C. Marin**  
 Drilling Method **2.25" SSA to 15', Mud Rotary 15' thereafter**

### WATER LEVEL DATA

While Drilling  **87.00 ft**  
 At Completion of Drilling  **MUD (15')**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Entire sheet revised



# BORING LOG 2113-B-03

Page 2 of 2

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

Client: **AECOM**  
Project: **CIRCLE INTERCHANGE RECONSTRUCTION**  
Location: **Chicago, IL**

Datum: NGVD  
Elevation: 594.20 ft  
North: 1897826.77 ft  
East: 1169837.46 ft  
Station: 3603+12.67  
Offset: 15.39 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
542.7	Very stiff, gray SILTY CLAY LOAM, trace gravel														
		17	X	17	6 7 10	3.28	20			80	X	22	13 20 30	8.04	16
		18	X	18	6 7 14	2.55	20				X	23	12 12 19	3.36	20
532.2	Medium dense, gray SANDY LOAM														
		19	X	19	9 8 8	NP	15			90	X	24	43 50 5	NP	9
		20	X	20	6 6 7	1.80	27								
527.2	Stiff to hard, gray SILTY CLAY														
		21	X	21	28 28 50	7.71	12								
		25	X	25						95	X	25	50/1	NP	4
		95													

### GENERAL NOTES

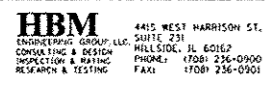
Begin Drilling **02-15-2013** Complete Drilling **02-18-2013**  
 Drilling Contractor **Wang Testing Services** Drill Rig **B-57 TMR**  
 Driller **R&J** Logger **F.Bozga** Checked by **C. Marin**  
 Drilling Method **2.25" SSA to 15', Mud Rotary 15' thereafter**

### WATER LEVEL DATA

While Drilling  **87.00 ft**  
 At Completion of Drilling  **MUD (15')**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

FILE PATH: c:\wangseng\11000401\GPJ\WANGENG\DOT\31813



4415 WEST HARRISON ST.  
SUITE 231  
MILWAUKEE, IL 60167  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED - LAB  
DRAWN - LAB  
CHECKED - MI, MAF  
DATE - 6/17/2013

REVISED - 07/19/2013 MI, WM  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS III  
STRUCTURE NO. 016-1709

F.A.J. RILEY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	190
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 51-51 OF 51 SHEETS STA. TO STA.

Benchmark: Cut square on northwest corner of sign foundation at north side of Harrison Street, approximately 80' west of west line of Morgan Street. Elevation 593.07.  
Cut square on east wall of Morgan Street at approximately centerline of I-290, near north entrance to CTA. Elevation 600.63.

Existing Structure: The retaining wall is comprised of reinforced concrete with attached guardrail above. The length of the retaining wall is 282'-6 1/2" and the total exposed height varies from approximately 18'-5" at the west end to 1'-11" at the east end (measured from grade at front face of wall). The retained height varies from 22'-8" at the west end to 9'-3 5/8" at the east end. There is a 2'-8" high crashwall in front of the retaining wall in Panels 1 through 3. Only 25'-4 3/4" wall length will be removed.

Salvage: No salvage.

**DESIGN STRESSES**

FIELD UNITS

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 36,000 psi (M270 Grade 36)

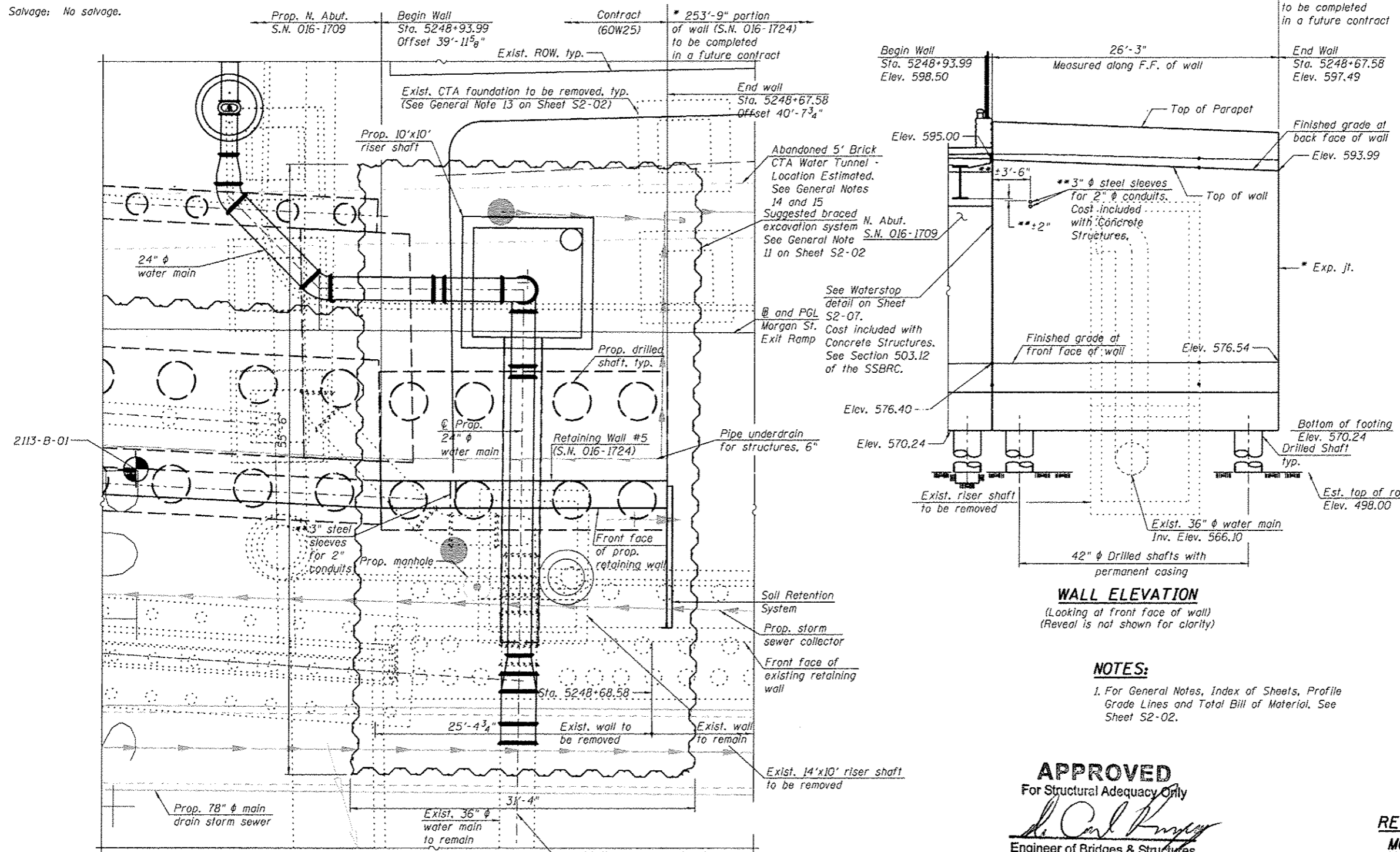
**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

- \* Expansion joint will be included in future contract
- \*\* Location of the steel sleeves for ITS conduits shall be coordinated with the ITS plans and the Engineer.

**LEGEND:**

- Front Face F.F.
- Back Face B.F.
- Combined Sewer
- Boring
- Electric
- Fiber Optic
- Storm Sewer
- Braced Excavation
- Water Line
- Fire Hydrant
- Light Pole



**WALL ELEVATION**  
(Looking at front face of wall)  
(Reveal is not shown for clarity)

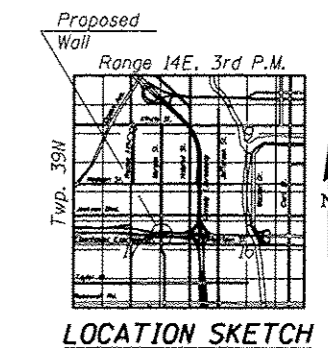
**NOTES:**

1. For General Notes, Index of Sheets, Profile Grade Lines and Total Bill of Material, See Sheet S2-02.

**APPROVED**  
For Structural Adequacy Only  
*De Carl Krueger*  
Engineer of Bridges & Structures



Signed Moussa A. Issa  
Moussa A. Issa, HBM II, Lic. No. 081-005738  
Expires 11-30-2014  
Date 07/19/13 For Sheets S2-01 Thru S2-11



**GENERAL PLAN**  
**RETAINING WALL 5 ALONG**  
**MORGAN ST. EXIT RAMP**  
**F.A.I. RTE. 290**  
**(EISENHOWER EXPRESSWAY)**  
**F.A.I. RTE. 290 - SECTION 2013-007R**  
**COOK COUNTY**  
**STA. 5248+93.99 TO STA. 5248+67.58**  
**STRUCTURE NO. 016-1724**

FILE PATH: c:\pwworkspace\hbm\2013\11161724-60W25-501-GPE.dwg

<b>HBM</b> ENGINEERING GROUP, LLC 4415 WEST HARRISON ST. SUITE 221 MILLSBURN, IL 60422 PHONE: (708) 236-0900 FAX: (708) 236-0901	0161724-60W25-501-GPE.dgn	DESIGNED - MI, MAF, JJS	REVISED - 07/19/2013 MI, WM	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	<b>GENERAL PLAN AND WALL ELEVATION</b> <b>RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT</b>		F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 196
	USER NAME: w111mardaus PLOT SCALE: 1/8" = 1'-0" PLOT DATE: 7/22/2013	DRAWN - JJS, MAF CHECKED - MAI, MI, LAB DATE - 6/17/2013	SCALE: SHEET S2-01 OF 12 SHEETS STA. TO STA.		CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT						

**GENERAL NOTES:**

- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Protective Coat shall be applied to exposed surfaces of the concrete wall, see limits of protection coat on sheet S2-06.
- Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the roadway plans.
- All elevations shown are based on the Chicago City Datum of 0.00, which is 579.19 feet above mean tide New York. (NAVD 88)
- The proposed retaining walls/ drilled shafts location may require adjustment based upon the field location of the existing 36"  $\phi$  watermain and shall be determined by the Engineer.
- The contractor shall exercise extreme caution during construction to make certain that construction activities will not have detrimental effects on the adjacent building foundations.
- Driving piles and temporary sheet piling is not allowed.
- For proposed watermain alignment, see Sheet No. 87.
- Slipforming of the parapet is not allowed.
- The braced excavation support system for the riser shaft construction layout and details is a suggested option. 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 wall construction. The Contractor shall design the braced excavation consisting of drilled soldier piles, wood lagging and structural steel sections (struts and wales) to meet the City of Chicago Office of Underground Coordination (OUC). The design shall be performed and sealed by a Structural Engineer, licensed and registered for the State of Illinois, and shall be approved by the Engineer.
- The suggested Braced Excavation and Construction Sequence are provided for information only.
- Existing CTA foundations were most likely removed or partially removed when the existing retaining wall was originally constructed. Any existing foundation that is within the proposed excavation for the new retaining wall and riser shaft construction shall be paid for as "Foundation Removal", see Special Provisions.
- Abandoned 5' Brick CTA Water Tunnel to be bulkheaded to the outside of the area of riser shaft construction (see civil sheets). In the area of the riser shaft construction, it will be necessary to remove any brick tunnel remnants. The removal of the existing tunnel is included as part of Structure Excavation or Braced Excavation as necessary, with proper disposal. See Sheet 90 for details.
- If the abandoned 5' Brick CTA water tunnel is encountered during drilling for the soldier piles for the braced excavation, concrete coring shall be used (if required). Cost shall be included in with Braced Excavation.

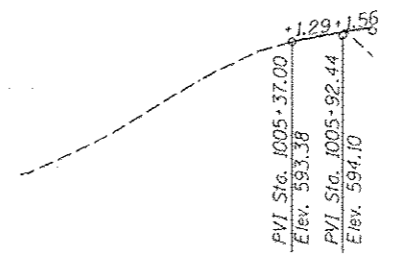
**INDEX OF SHEETS**

- S2-01 General Plan & Wall Elevation
- S2-02 General Notes, Index of Sheets & Bill of Material
- S2-03 Suggested Braced Excavation
- S2-04 Suggested Construction Sequence
- S2-05 Wall Plan & Elevation, Rem. Plan & Elevation, & Reveal Details
- S2-06 Wall Sections, Details & Bill of Material
- S2-07 Soil Retention System & Backfill
- S2-08 Riser Shaft Sections & Details (Sheet 1 of 3)
- S2-09 Riser Shaft Sections & Details (Sheet 2 of 3)
- S2-10 Riser Shaft Sections & Details (Sheet 3 of 3)
- S2-11 Permanent Thrust Restrainers Plan, Sections & Details
- S2-12 Boring Log

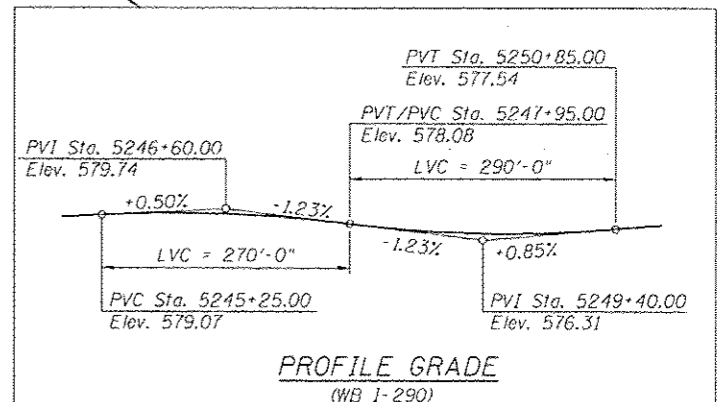
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL QUANTITY
Trench Backfill	CU YD	1,124
Concrete Removal	CU YD	68
Concrete Structures	CU YD	158.9
Protective Coat	SO YD	83
Finishing and Erecting Structural Steel	POUND	42,810
Reinforcement Bars	POUND	45,080
Reinforcement Bars, Epoxy Coated	POUND	38,150
Permanent Casing	FOOT	578
Drilled Shaft in Soil	CU YD	259
Anchor Bolts, 3/4"	EACH	25
Geocomposite Wall Drain	SO YD	57
Braced Excavation	CU YD	1,428
Granular Backfill for Structures	CU YD	78
Pipe Underdrains For Structures 6"	FOOT	29

For Information Only  
Part of Future Contract



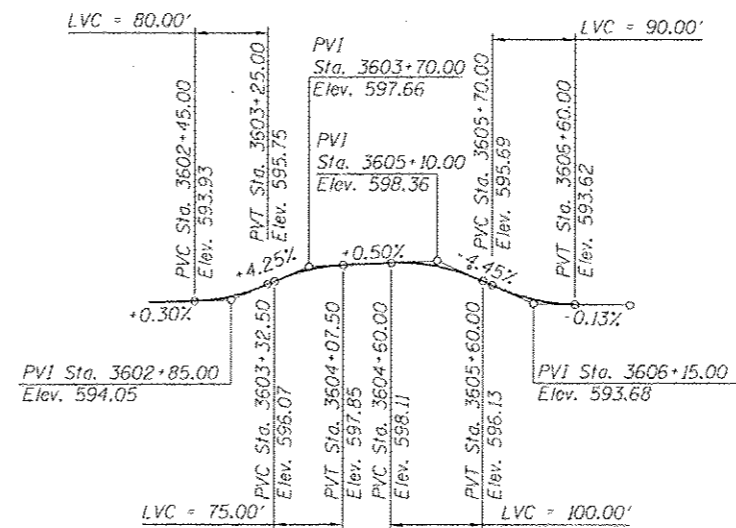
**PROFILE GRADE**  
(Morgan Street Exit Ramp)



**PROFILE GRADE**  
(WB 1-290)

**CURVE DATA**

(F.A.I. Rte. 1-290 WB)  
 P.I. Sta. = 5251+25.31  
 $\Delta = 9^\circ 58' 24''$  (RT)  
 $D = 0^\circ 53' 03''$   
 $R = 6,480.00'$   
 $T = 565.40'$   
 $L = 1,127.95'$   
 $E = 24.62'$   
 $e = 2.00\%$   
 $T.R. = 72$   
 $S.E. Run = 72$   
 $P.C. Sta. = 5245+59.91$   
 $P.T. Sta. = 5256+87.86$



**PROFILE GRADE**  
(along Morgan Street)

FILE PATH = C:\Users\N111\OneDrive\Projects\2013\07-19-2013\0161724-60W25-SR2-GenNote.dgn

**HBM**  
 ENGINEERING GROUP, LLC  
 CONSULTING & DESIGN  
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 4415 WEST HARRISON ST.  
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 HILLSIDE, IL 60162  
 PHONE: (708) 236-0300  
 FAX: (708) 236-0901

0161724-60W25-SR2-GenNote.dgn	DESIGNED - MI, MAF, JJS	REVISION - 07/19/2013 MI, WM
USER NAME = w111.mordness	DRAWN - MAF, JJS	REVISED -
PLOT SCALE = 1/8" = 1' - 0"	CHECKED - MAI, MI, LAB	REVISED -
PL01 DATE = 7/16/2013	DATE - 6/17/2013	REVISED -

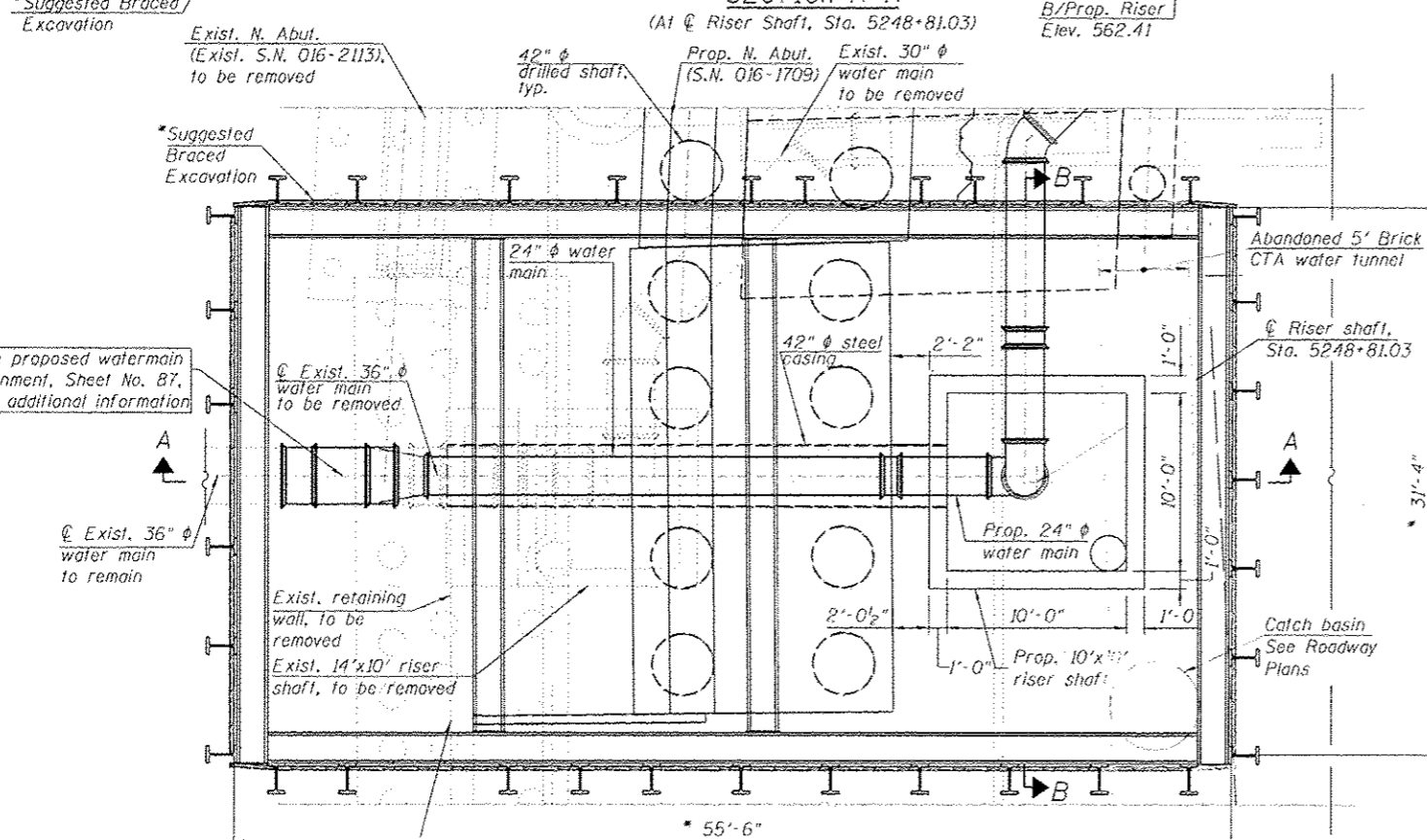
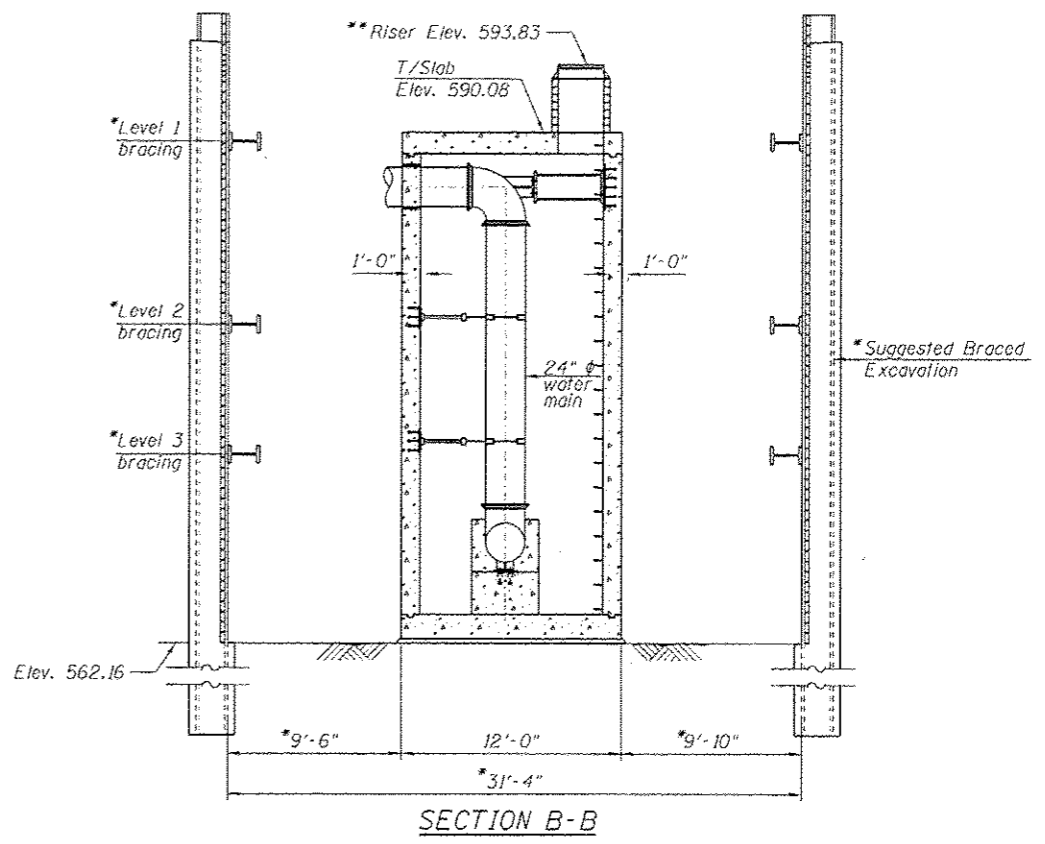
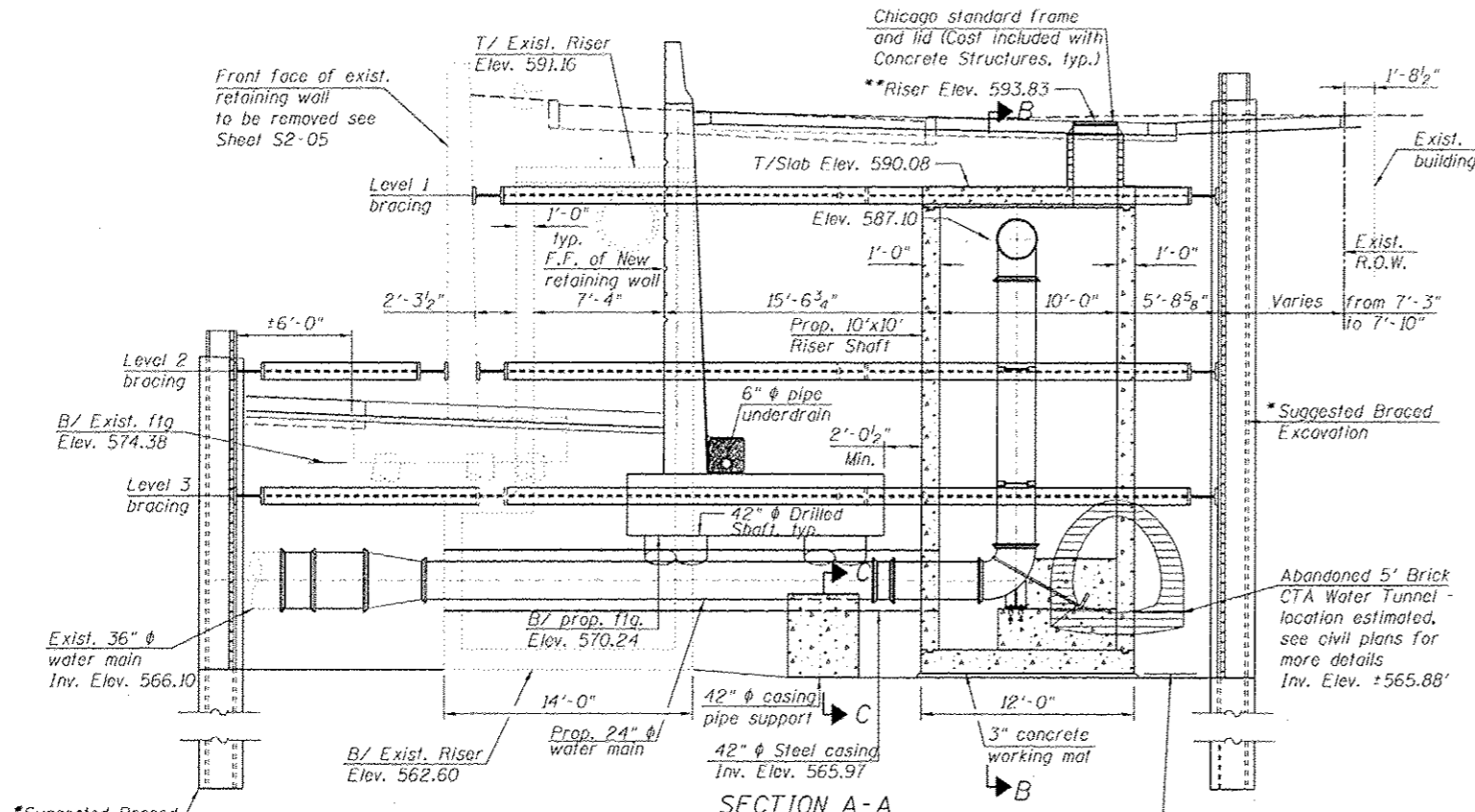
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DESIGNED - MI, MAF, JJS	REVISION - 07/19/2013 MI, WM	
DRAWN - MAF, JJS	REVISED -	
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DATE - 6/17/2013	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

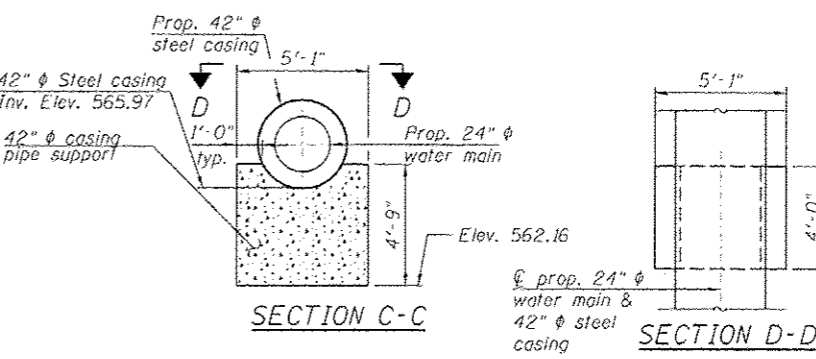
**GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL**  
**RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

F.A.I. RTE. 90/94/290	SECTION 2013-00TR	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 197
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

SCALE: SHEET S2-02 OF 12 SHEETS STA. TO STA.



\* See General Note 11 and 12 on Sheet S2-02  
 \*\* Contractor shall coordinate this elevation with roadway plans



- NOTES**
- For General Notes and Index of Sheets, see Sheet S2-02.
  - The Braced Excavation is provided for information only. See General Notes 11 and 12 on Sheet S2-02.

**LEGEND**

	Concrete Structures
	Concrete Removal

<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: 11081 236-0900 FAX: 11081 236-0901	0161724-60W25-S03-Suggest.Br.Ex.dgn USER NAME: amediasa PLOT SCALE: 5/8" = 1'-0" PLOT DATE: 7/15/2013	DESIGNED: MJ, WM DRAWN: WM CHECKED: MAJ, MJ, JJS DATE: 6/17/2013	REVISED:  01/19/2013 MJ, WM REVISED: - REVISED: - REVISED: -
	Entire sheet revised		
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
	SUGGESTED BRACED EXCAVATION RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT		
	SCALE: SHEET S2-03 OF 12 SHEETS STA. TO STA.		

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	198
CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT				



**SUGGESTED CONSTRUCTION SEQUENCE**

1. Shut 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"  $\phi$  water main horizontal portion and install it into the 42"  $\phi$  casing pipe. (At Invert Elevation 565.97).
5. Construct the concrete foundation shown in Sections C-C and D-D on Sheet S2-03.
6. Install the assembled water main and casing, 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"  $\phi$  water main of Item 4 to the existing 36"  $\phi$  water main.
8. Construct the riser shaft bottom slab and walls.
9. Backfill the braced excavation up to the bottom of the new wall 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 Retaining 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 (1' below the bottom of the new water main running thru the top 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 Morgan 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"  $\phi$  water main inside the riser shaft and the connection portion to the 30"  $\phi$  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.

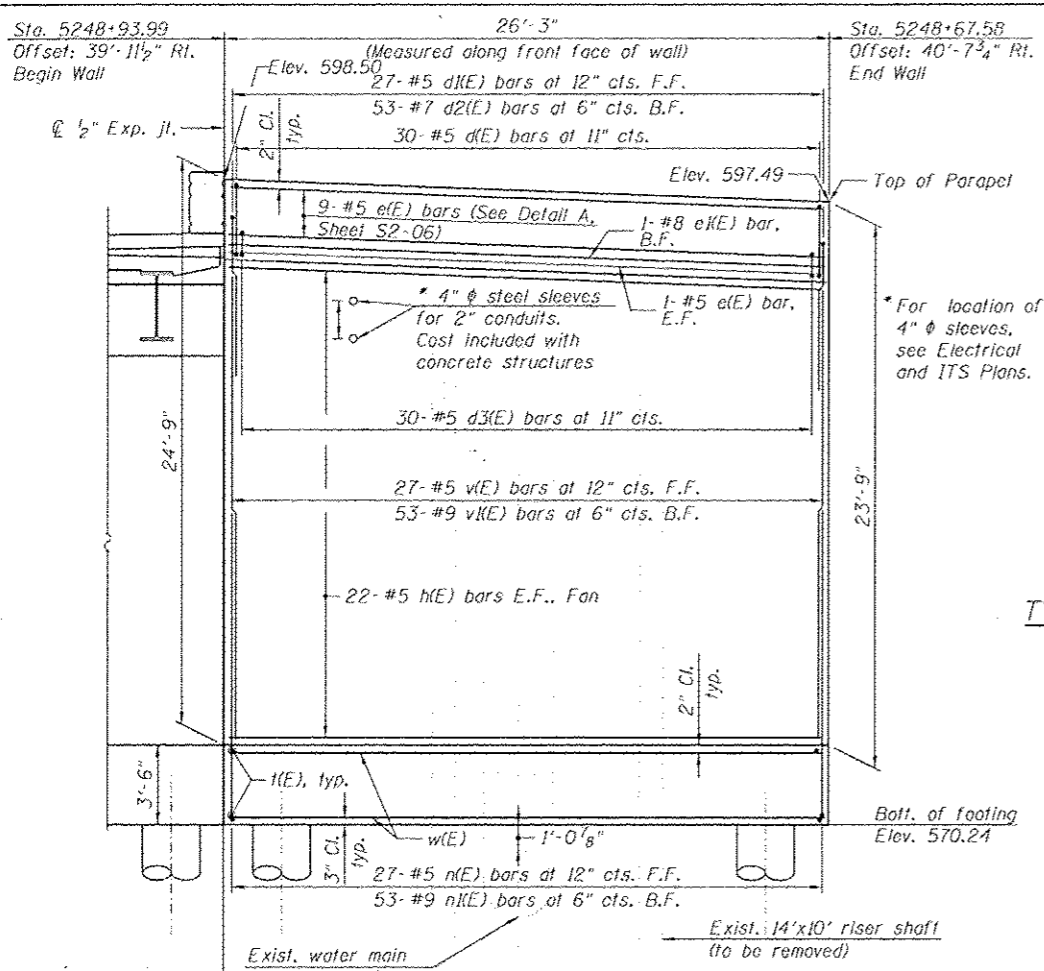
**NOTES:**

1. When Contractor's means and methods include initiating excavation for shafts at elevations higher than the final top of shaft elevation, the costs for excavating, 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.

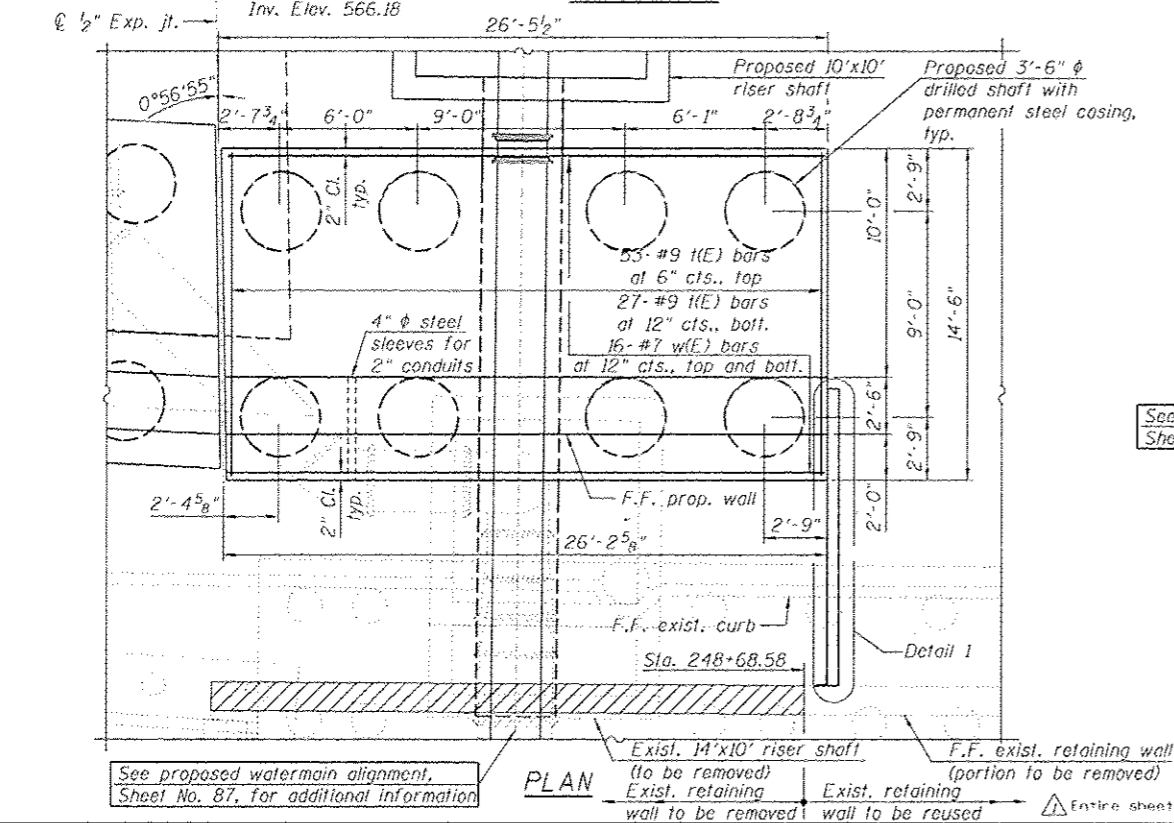
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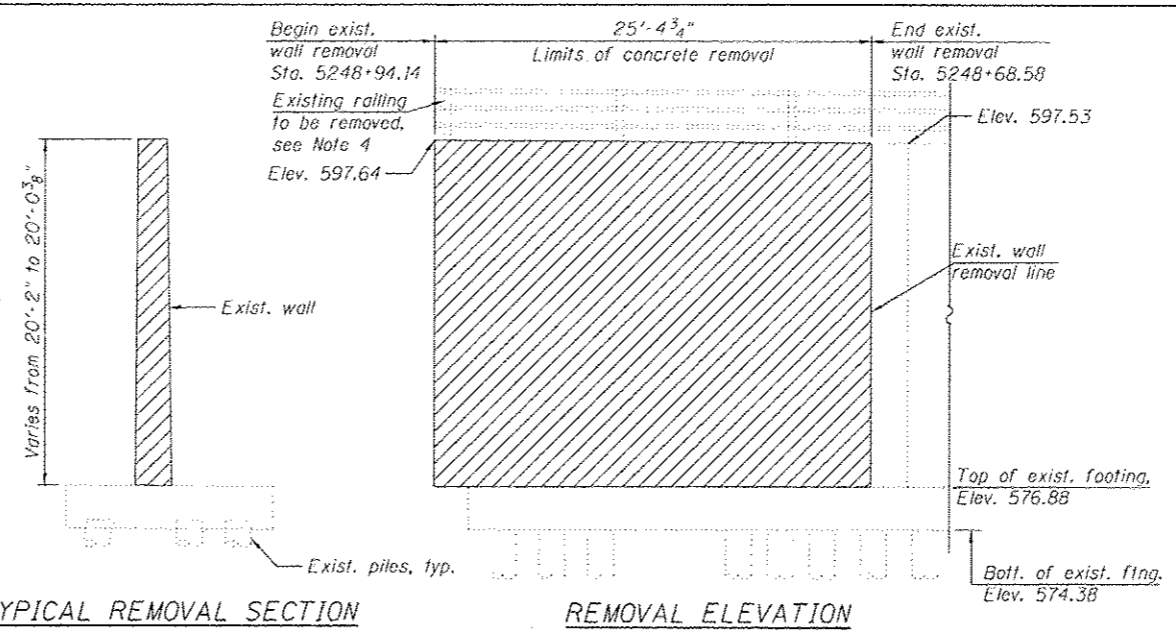
<b>HBM</b> ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING 4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: 1708 236-0950 FAX: 1708 236-0901	0161724-60W25-584-Suggested Braced Ex.dgn USER NAME = willmordeuss PLOT SCALE = 401.9791' / 1"	DESIGNED - MJ, MAF, WM DRAWN - MAF, WM CHECKED - MAI, MI, LAB DATE - 6/17/2013	REVISED - △ 07/19/2013 MJ, WM REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED CONSTRUCTION SEQUENCE</b> <b>RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT</b>	F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 199	CONTRACT NO. 60W25 ILLINOIS FED. AID PROJECT
	PLOT DATE = 7/16/2013	DATE - 6/17/2013	REVISED -			SCALE:	SHEET S2-04 OF 12 SHEETS	STA. TO STA.			
							ILLINOIS FED. AID PROJECT				
							ILLINOIS FED. AID PROJECT				



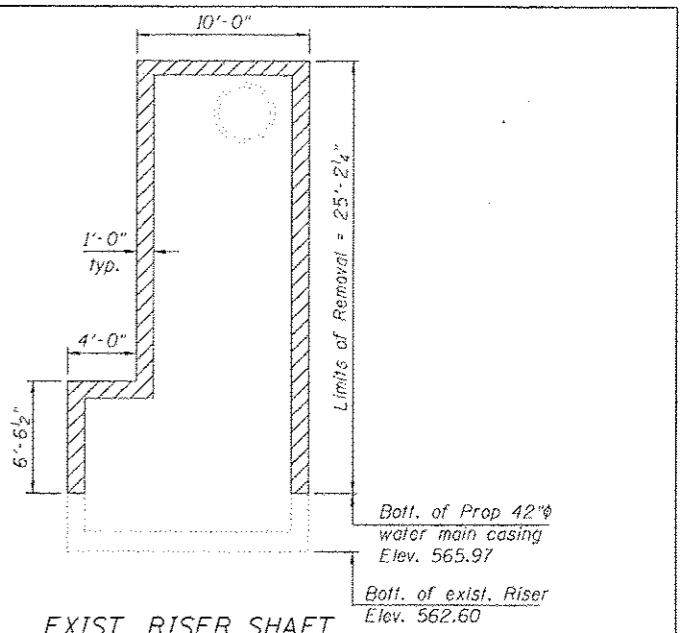
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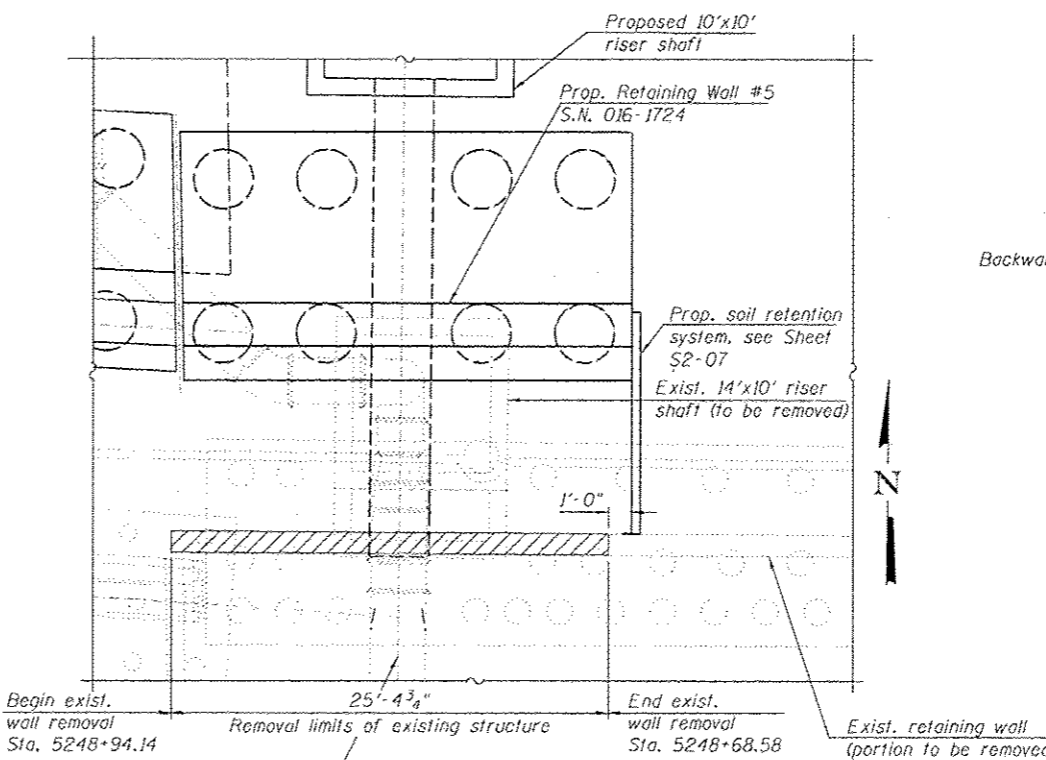
**PLAN**



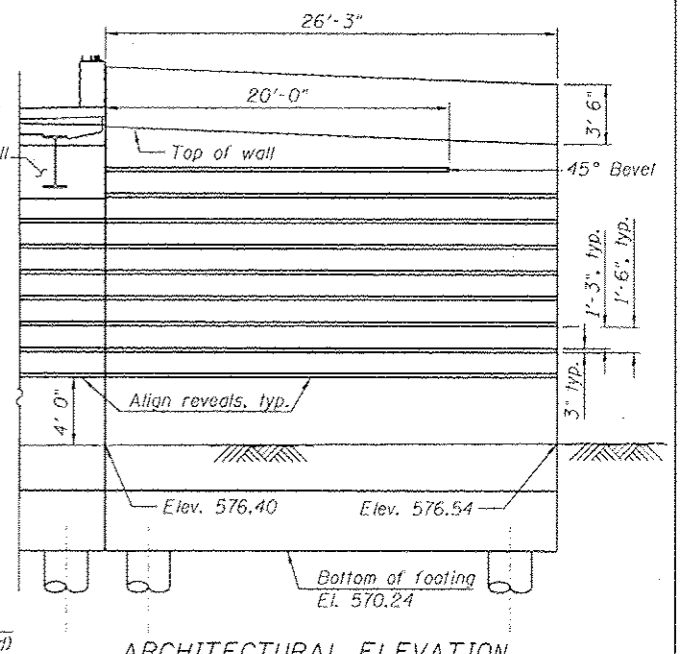
**REMOVAL ELEVATION**



**EXIST. RISER SHAFT  
REMOVAL ELEVATION**



**REMOVAL PLAN**



**ARCHITECTURAL ELEVATION**

**SCOPE OF WORK FOR RETAINING WALL 5:**

1. Remove portion of the wall stem interfering with the riser shaft construction as shown on the Removal Plan and Removal Elevation.
2. Construct the wall drilled shaft, footing stem and parapet.
3. Backfill as shown on Sheet S2-07.
4. Apply protection coat per limits shown on the Typical Wall Section on Sheet S2-06.
5. The remainder of the wall stem, footing and portion of piles interfering with the new future contracts construction will be included in a future contract.
6. The 3" x 1 3/4" reveal will not be paid separately and shall be included in the cost of the pay item "Concrete Structures".

**NOTES:**

1. For sections, details lap splices and bill of material. See Sheet S2-06.
2. All existing piles are 18" diameter concrete piles.
3. For Detail 1, Soil Retention System, see Sheet S2-07.
4. Cost for removal of existing railing shall be included with "Concrete Removal".
5. Existing footings and portions of existing piles to be removed in a future contract.

**LEGEND:**

- B.F. - denotes Back Face
- E.F. - denotes Each Face
- F.F. - denotes Front Face
- Concrete Removal

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Removal	CU YD	68.0

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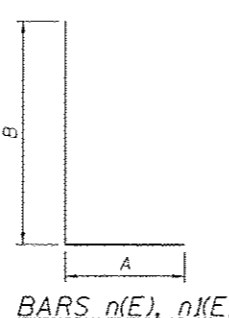
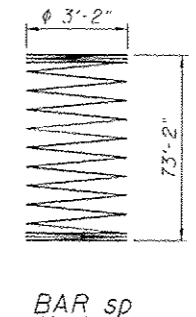
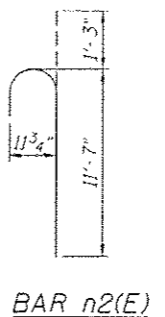
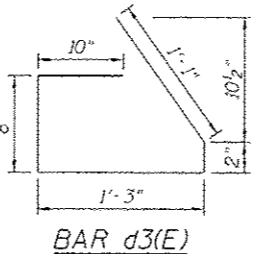
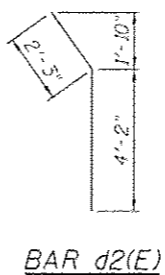
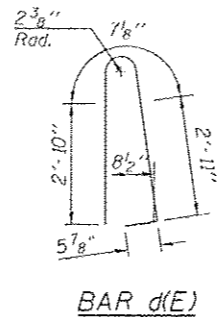
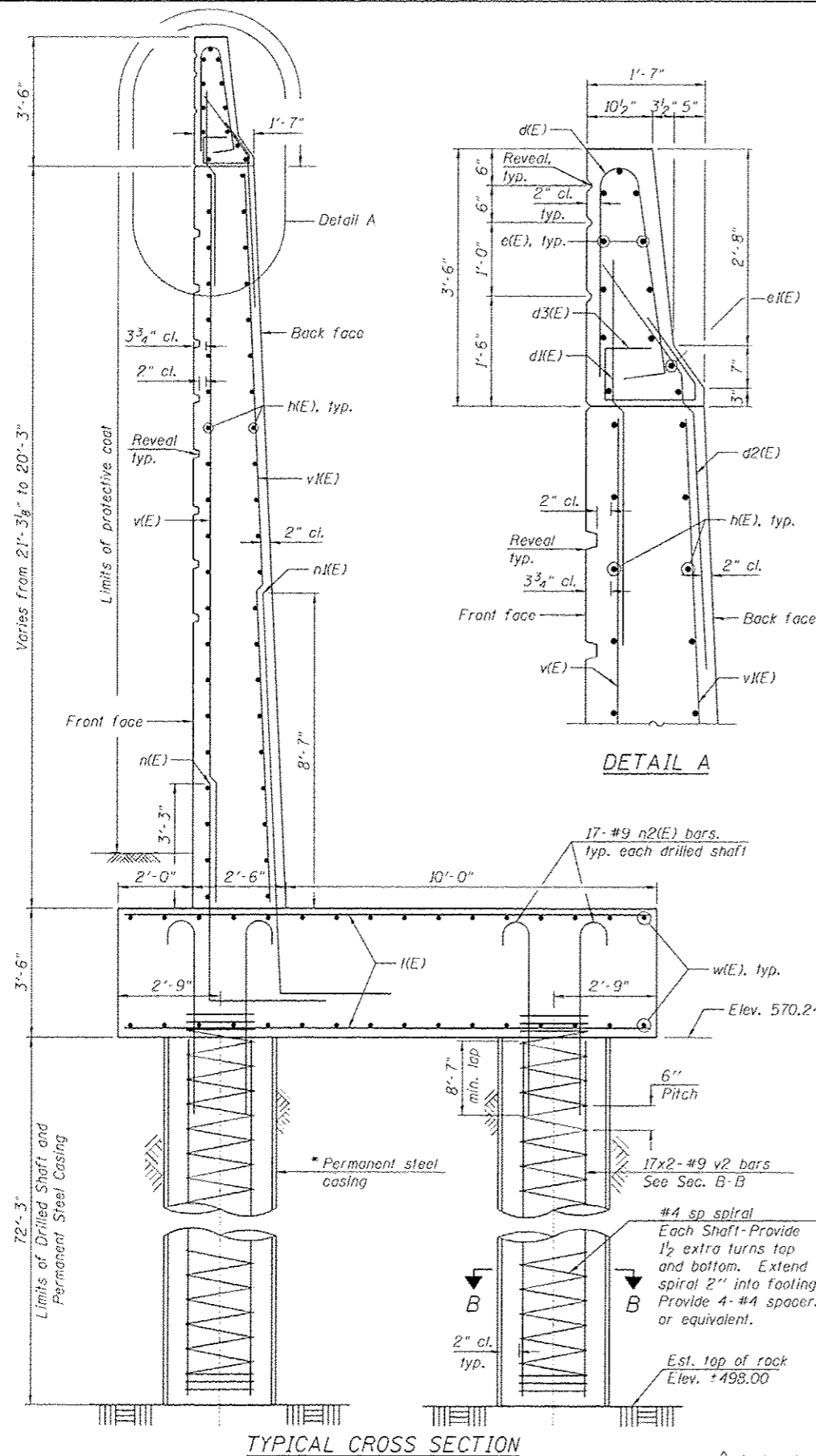
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WALL PLAN & ELEVATION, REM. PLAN & ELEVATION, & REVEAL DETAILS  
RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

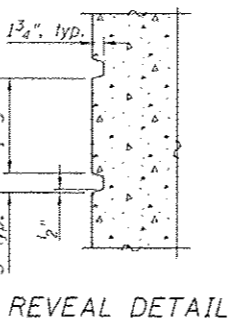
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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COCK	317	200
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W25	

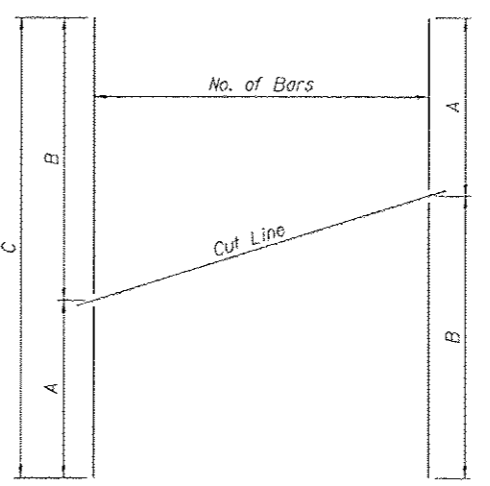
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Bar	A	B
n(E)	10"	6'-3"
n2(E)	1'-7"	11'-7"



Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"
#9	8'-7"

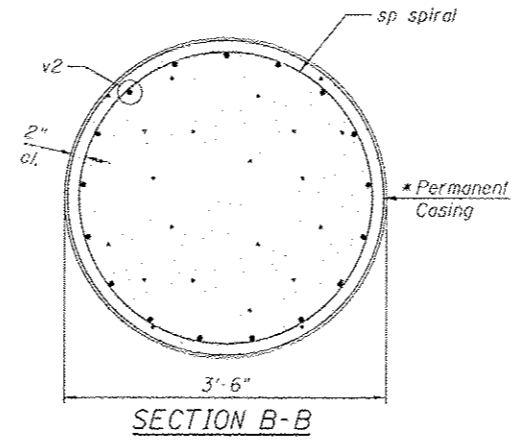


**BAR CUTTING DIAGRAM**

See table for dimensions. Make all cuts normal to bar axis

**BAR TABLE SCHEDULE**

Bar	No. of Sets Req'd	No. of Bars Per Set	A	B	C
v(E)	1	14	19'-9"	20'-11"	40'-8"
v2(E)	1	27	19'-9"	20'-11"	40'-8"



\* Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.

BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
d(E)	30	#5	6'-10"	
d2(E)	27	#5	6'-6"	
d3(E)	53	#7	6'-5"	
d3(E)	30	#5	4'-0"	
e(E)	11	#5	25'-11"	
e2(E)	1	#8	25'-11"	
n(E)	44	#5	25'-11"	
n(E)	27	#5	7'-1"	
n2(E)	53	#9	13'-2"	
n2(E)	136	#9	12'-10"	
sp	8	#4	78'-5"	
v(E)	80	#9	14'-2"	
v(E)	14	#5	40'-8"	
v2(E)	27	#9	40'-8"	
v2	272	#9	40'-3"	
w(E)	32	#7	25'-11"	
Concrete Structures	CU YD		93.9	
Protective Coat	SQ YD		83	
Reinforcement Bars	POUND		15,080	
Reinforcement Bars, Epoxy Coated	POUND		21,160	
Permanent Casing	FOOT		578	
Drilled Shaft in Soil	CU YD		206.0	

Reinforcement bars designated (E) shall be epoxy coated.

**TYPICAL CROSS SECTION**

Entire sheet revised

**HBM**  
ENGINEERING GROUP LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

0161724-02W25-506-1 Wall Details.dgn	DESIGNED - MI, MAJ, JJS	REVISID - 07/19/2013 MI, WM
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PLOT DATE - 7/15/2013	DATE - 6/17/2013	REVISED -

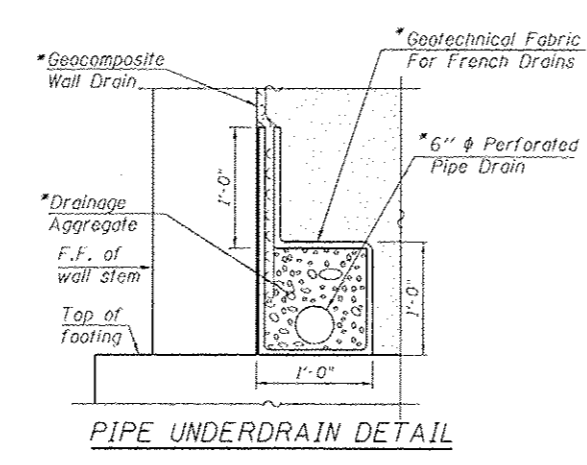
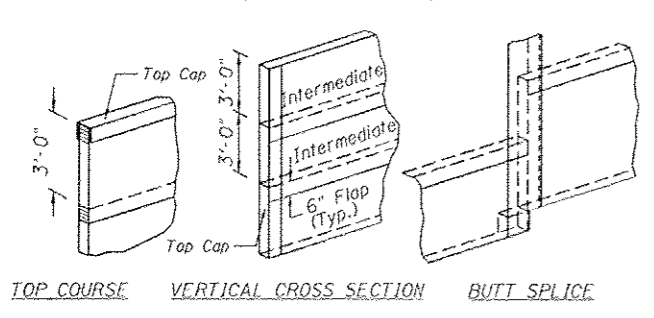
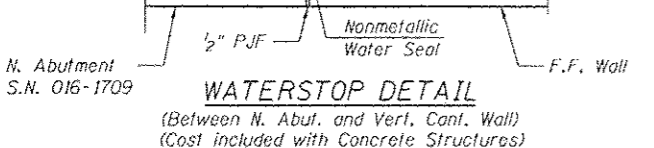
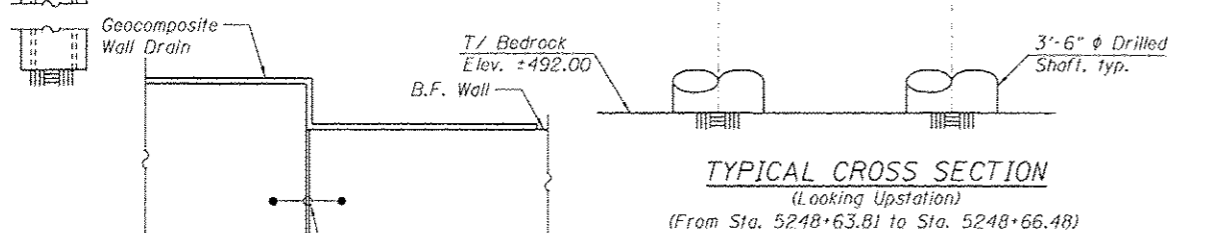
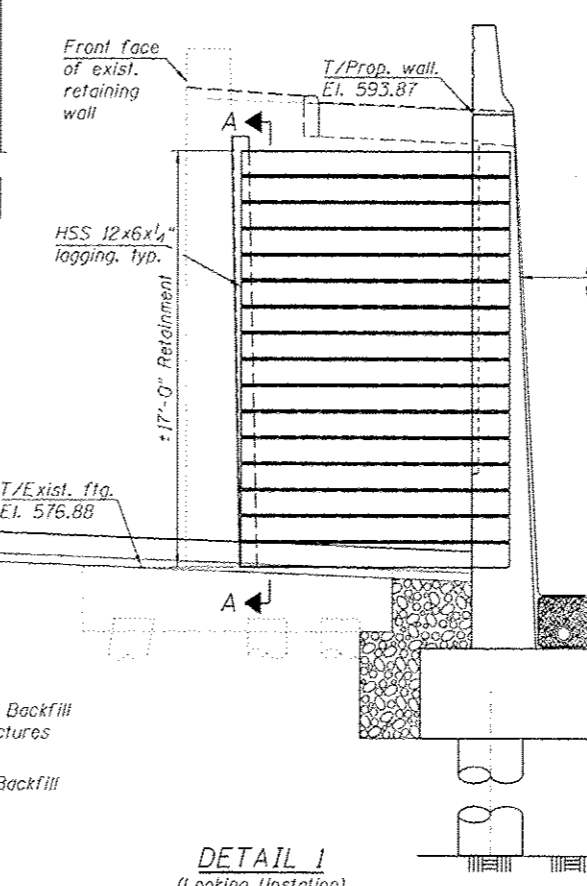
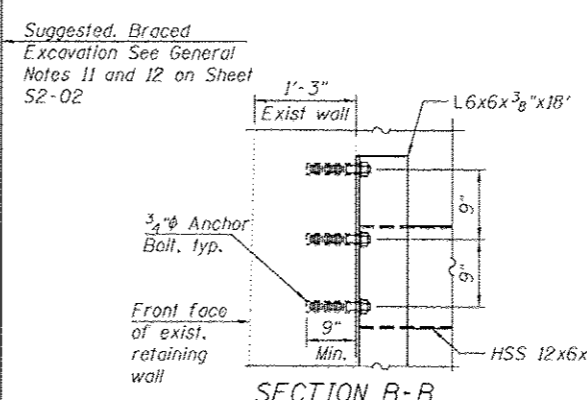
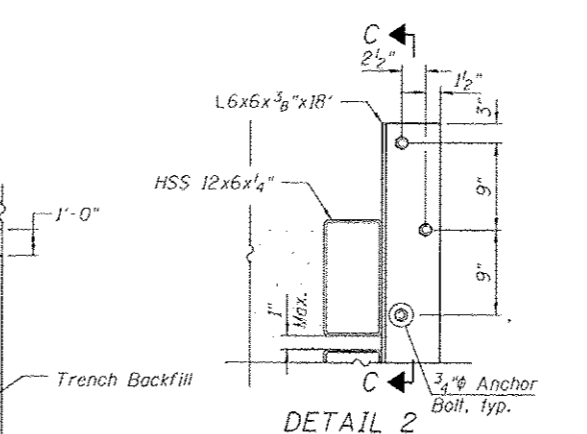
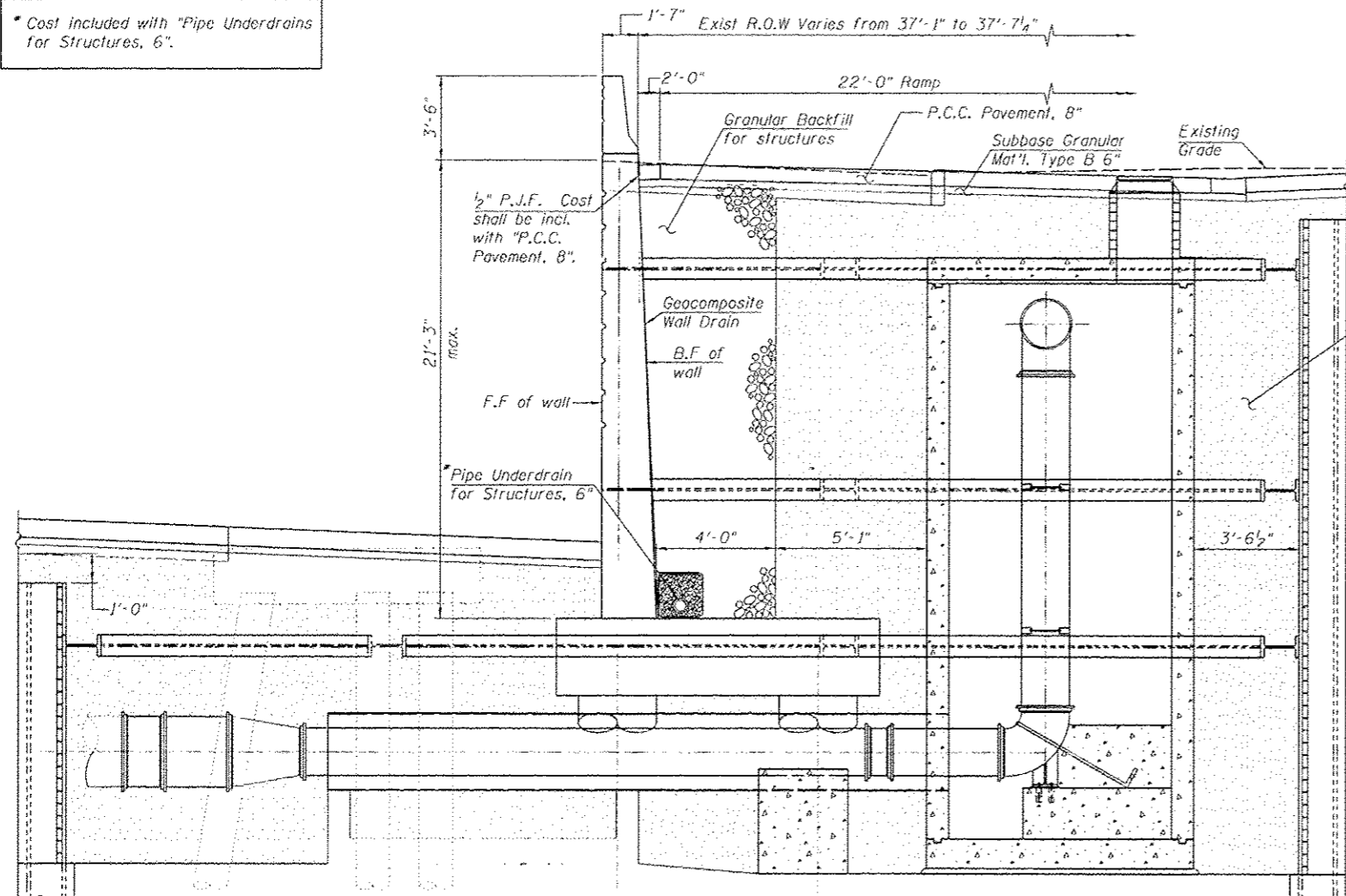
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SECTIONS, DETAILS AND BILL OF MATERIAL  
RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	201
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 52-06 OF 12 SHEETS STA. TO STA.

\* Cost included with "Pipe Underdrains for Structures, 6".

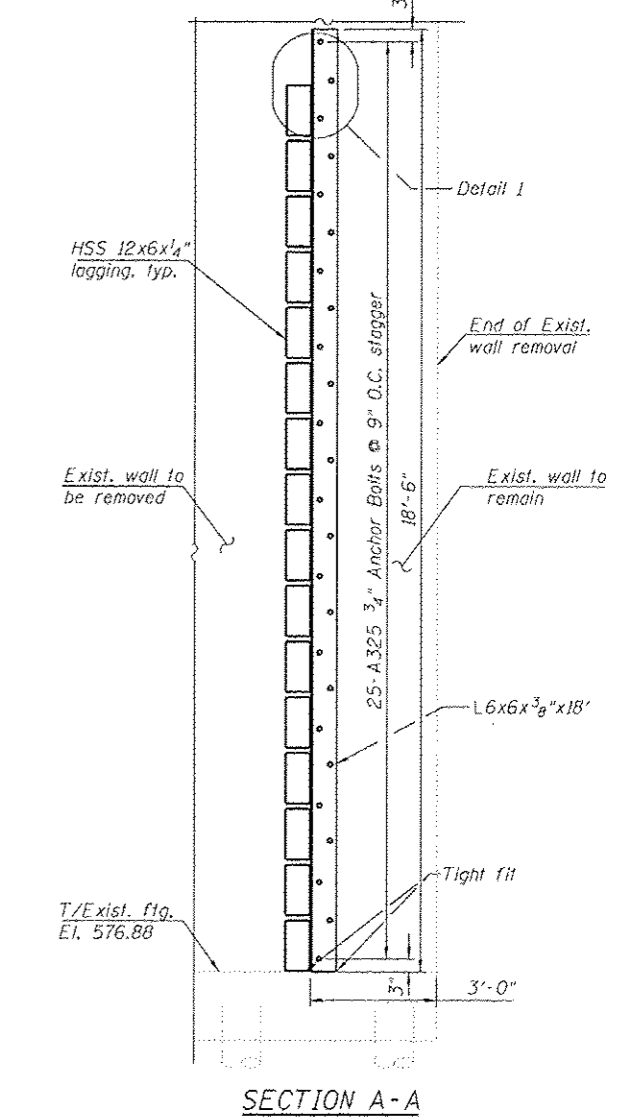


**LEGEND**  
 Granular Backfill for structures  
 Trench Backfill  
 B.F. - Back Face  
 F.F. - Front Face

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Trench Backfill	CU YD	1.124
Furnishing and Erecting Structural Steel	POUND	6,340
Anchor Bolts, 3/4"	EACH	25
Geocomposite Wall Drain	50 YD	57
Braced Excavation	CU YD	1428
Granular Backfill for Structures	CU YD	78
Pipe Underdrains for Structures 6"	FOOT	29

- NOTES:**
- For location, layout and details of watermain see sheet No. 87.
  - The proposed retaining wall foundation locations may require adjustment based upon the field location of the water main which should be determined by the Engineer.
  - HSS 12x6x1/4" to serve as lagging between existing wall & proposed wall. Cost of the steel lagging, as well as work necessary to place the lagging, shall be included with "Furnishing and Erecting Structural Steel".
  - The minimum density of "Granular Backfill for Structures" and "Trench Backfill" shall not be less than 95 percent of the standard laboratory density determined according to AASHTO T 99. Proper mechanical compaction shall be used so as to not impose any excessive lateral load onto any proposed structures. Lifts shall be placed as required to obtain the necessary density but not greater than 8" thick.



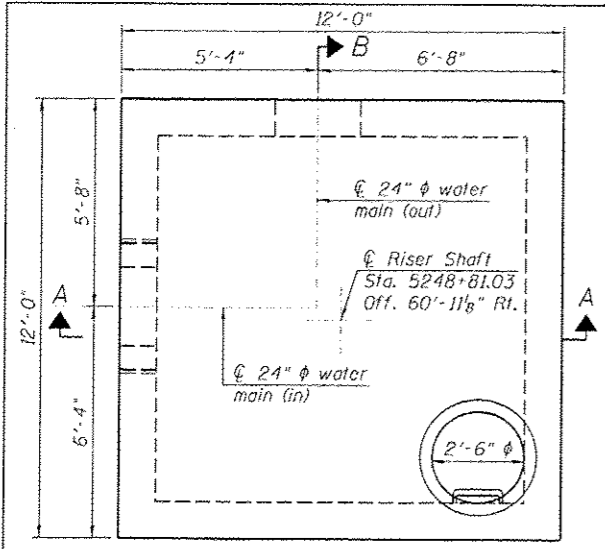
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 PLOT SIZE: 11.0000 x 17.0000  
 PLOT ORIGIN: 0.0000, 0.0000

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	USER NAME: willardous	DRAWN - MAF, WM	REVISION -
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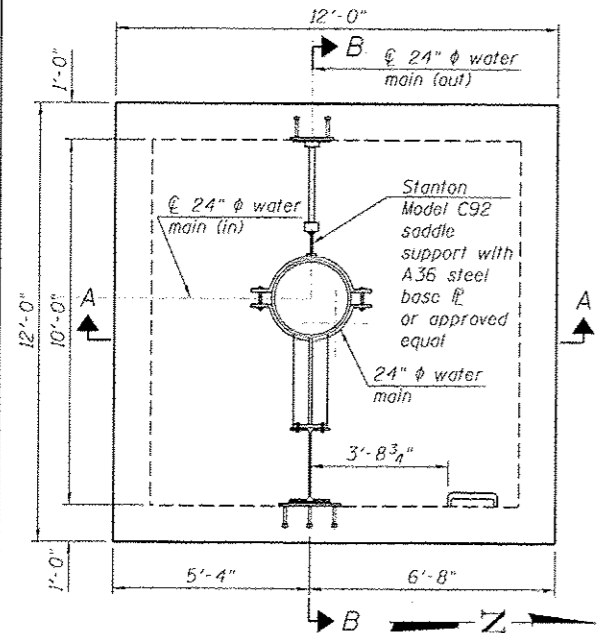
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOIL RETENTION SYSTEM AND BACKFILL**  
**RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

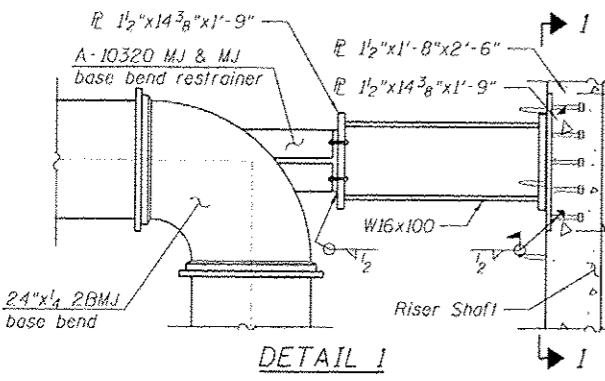
F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/37/290	2013-007R	COOK	317	202
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



RISER PLAN



SECTIONAL PLAN  
(Plan view of lateral pipe supports)

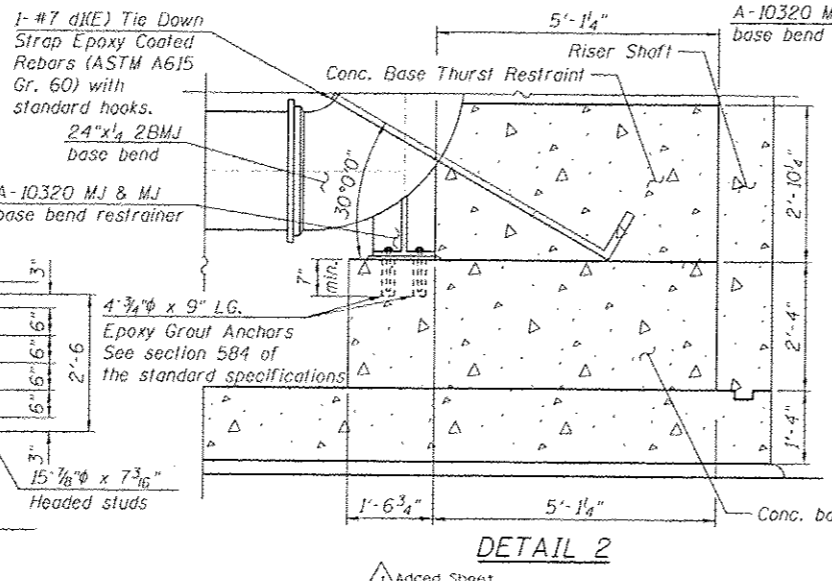


DETAIL 1

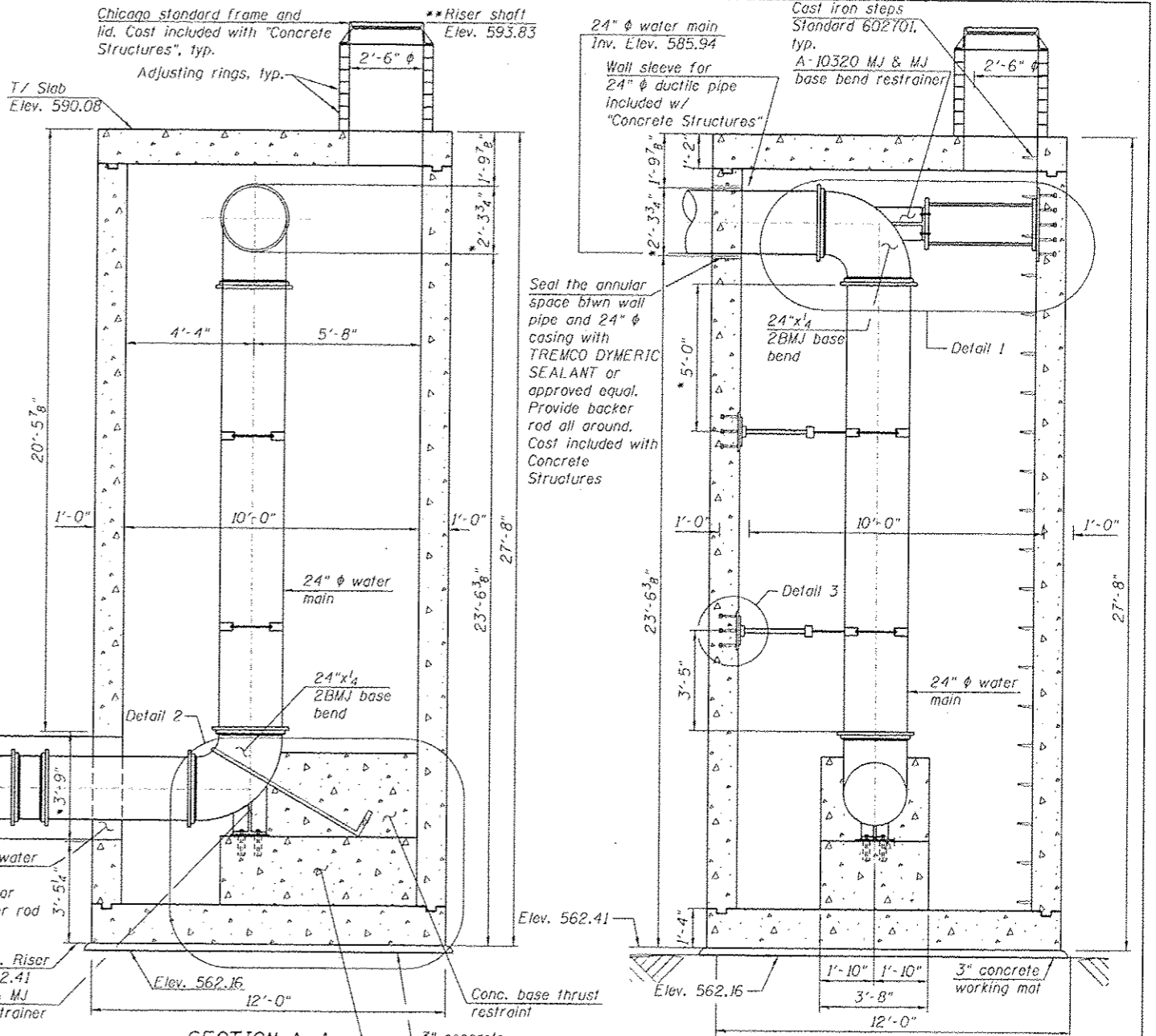
**NOTES:**  
1. Miscellaneous steel for saddle support, base bend restrainers, shear studs and plates shall be included with "Furnishing and Erecting Structural Steel"

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	POUND	1,100

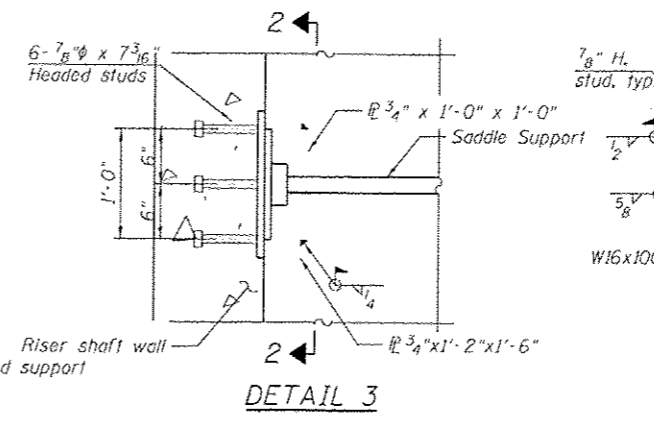


DETAIL 2

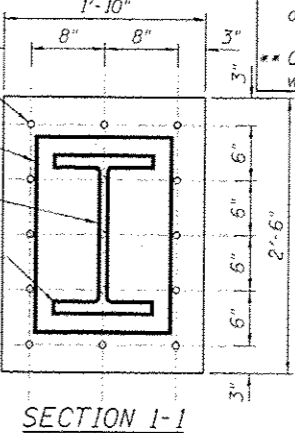


SECTION A-A

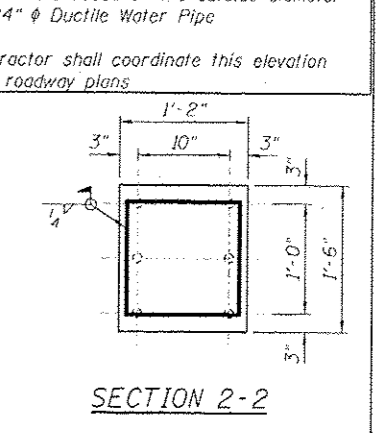
SECTION B-B



DETAIL 3



SECTION 1-1



SECTION 2-2

\* Dimension shall be verified by the Contractor in the field based on the outside diameter of 24"  $\phi$  Ductile Water Pipe  
\*\* Contractor shall coordinate this elevation with roadway plans

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
HILLSIDE, IL 60152  
PHONE: (708) 236-0900  
FAX: (708) 236-0901

DESIGNED - MJ, WM  
DRAWN - WM  
CHECKED - MAI, MJ, JJS  
DATE - 6/17/2013

REVISED -  
REVISED -  
REVISED -

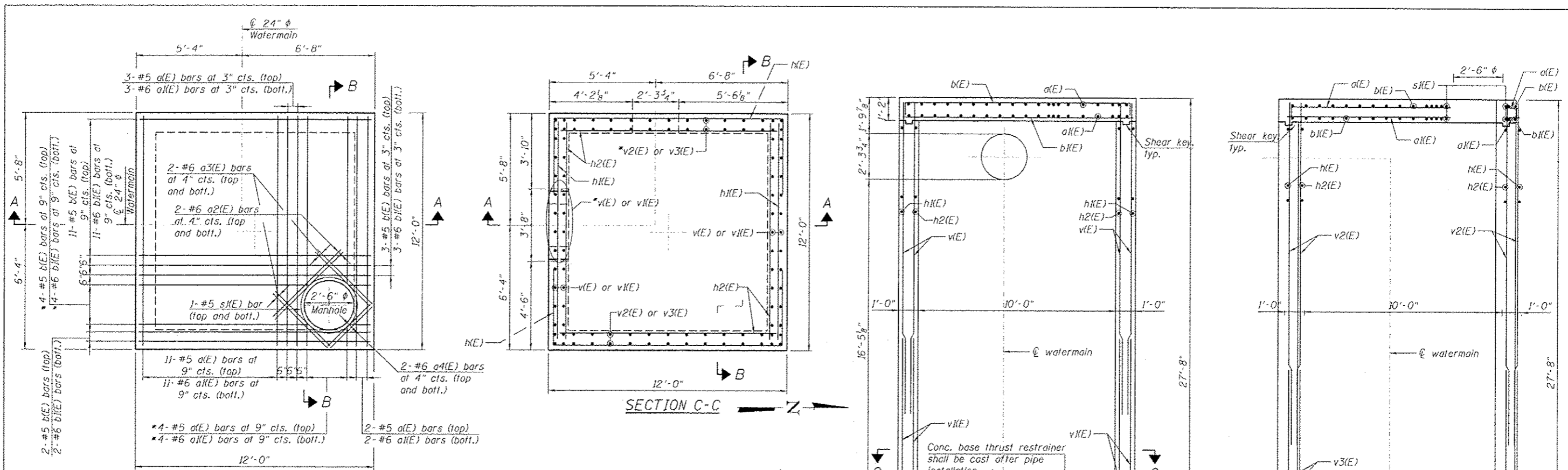
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RISER SHAFT SECTIONS AND DETAILS (SHEET 1 OF 3)  
RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-00TR	COOK	317	203

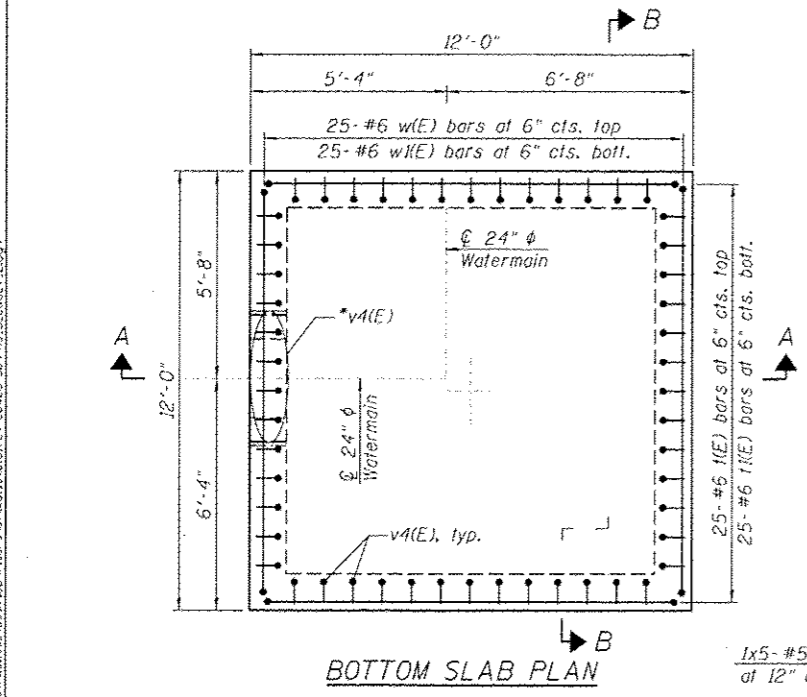
CONTRACT NO. 60W25



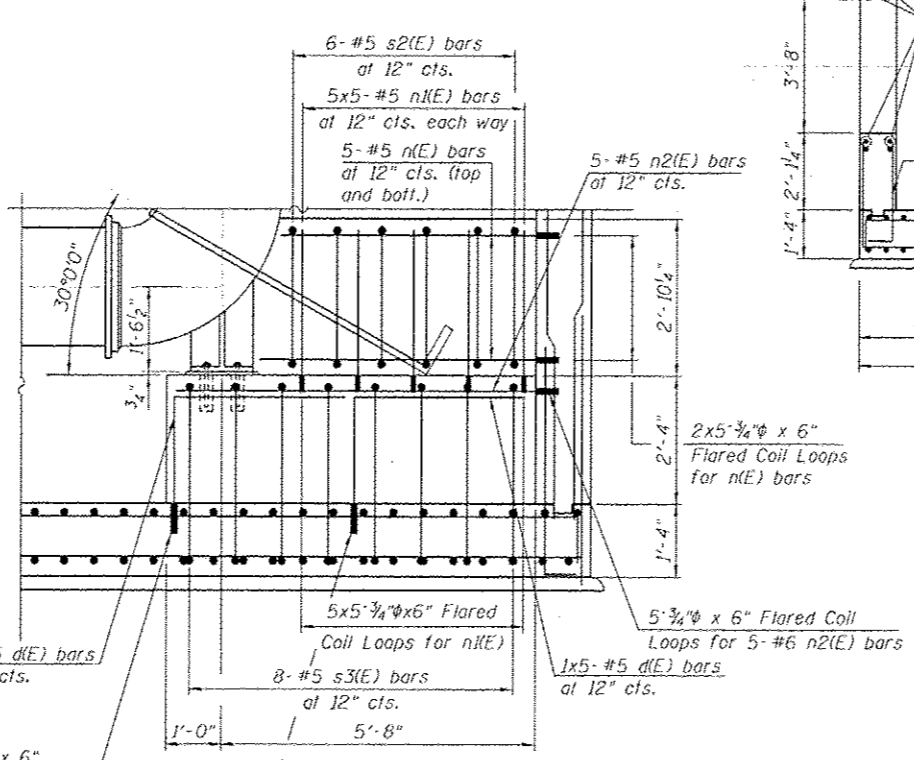


ROOF SLAB PLAN

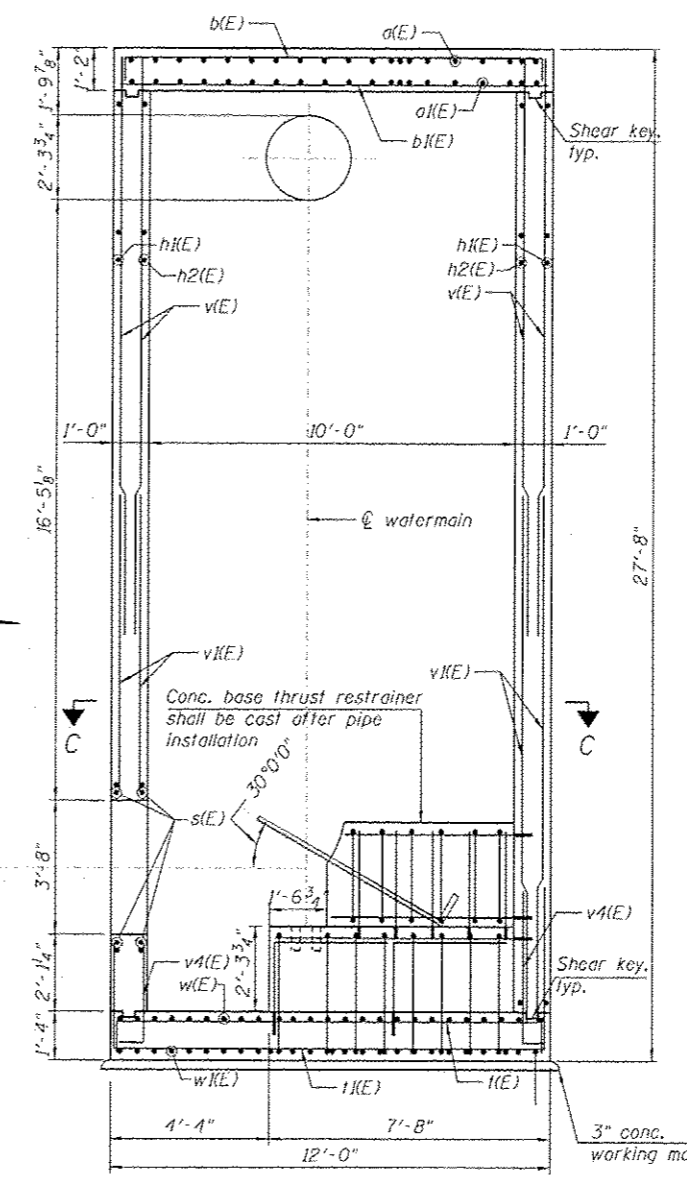
SECTION C-C



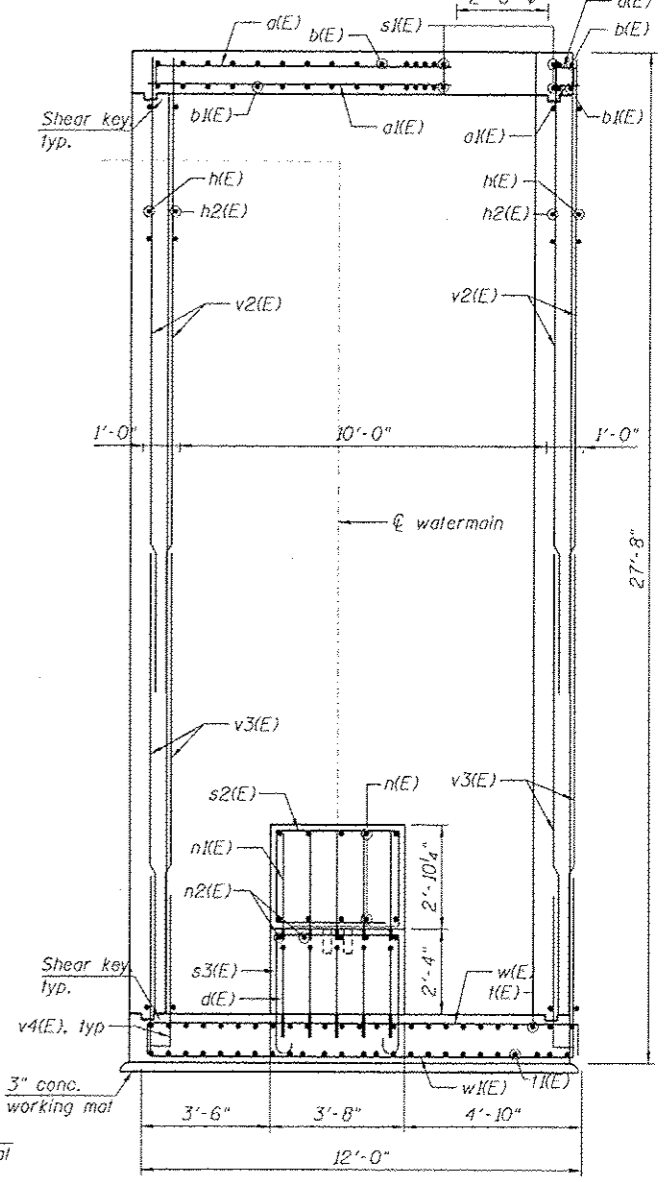
BOTTOM SLAB PLAN



DETAIL 2



SECTION A-A



SECTION B-B

NOTES:

1. For General Notes, see Sheet S2-02.
2. For Bill of Material, bar diagrams and minimum bar laps, see Sheet S2-10.
3. The minimum concrete cover shall be 2".

\*Order bars full length and cut in field to fit

**HBM**  
ENGINEERING GROUP, LLC  
CONSULTING & DESIGN  
INSPECTION & TESTING  
RESEARCH & TESTING

4415 WEST HARRISON ST.  
SUITE 231  
MILLSBORO, IL 60132  
(708) 236-0900  
FAX: (708) 236-0901

R161724-60W25-509-RS-SEC&DET\_2.dgn  
DESIGNED - MI, WM  
DRAWN - WM  
CHECKED - MAJ, MI, JJS  
DATE - 6/17/2013  
REVISER -  
REVISED -  
REVISED -  
REVISED -

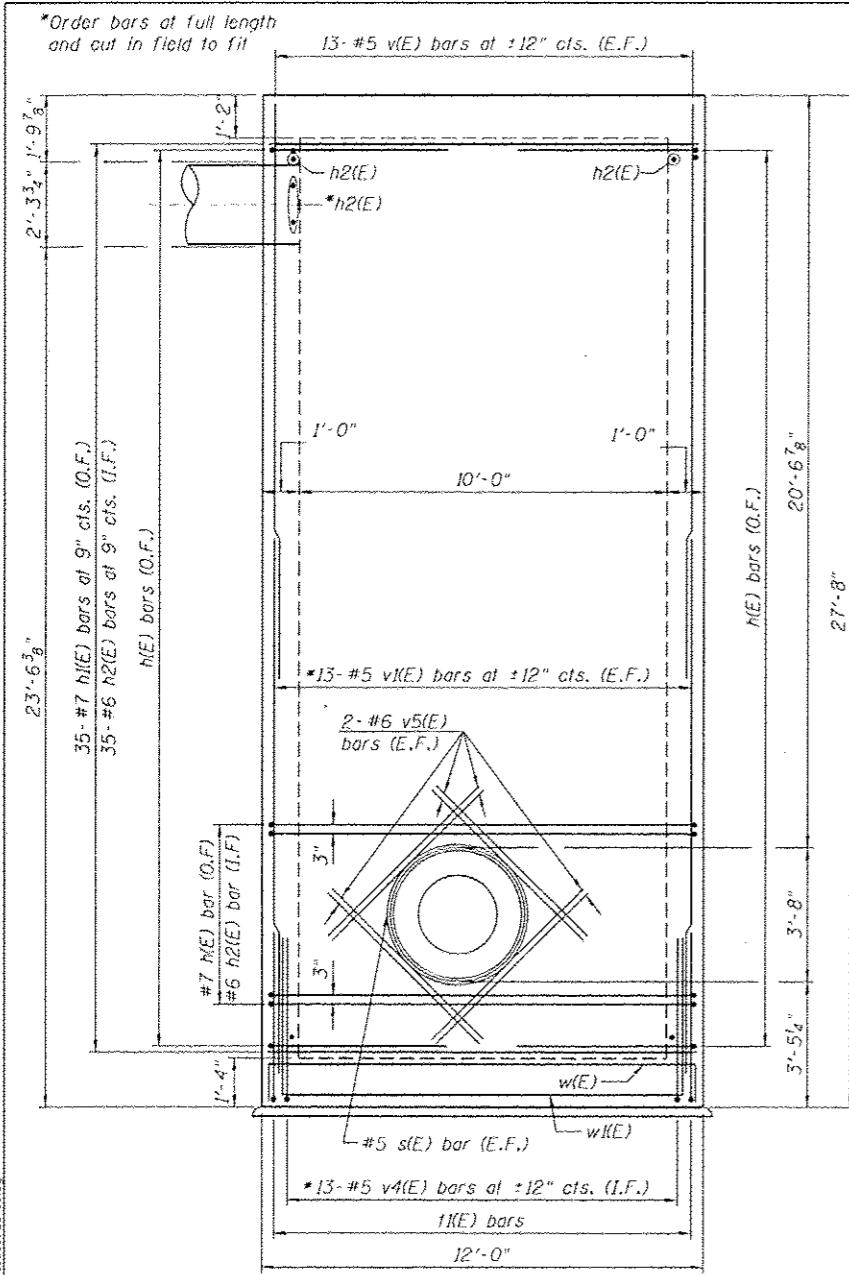
Added sheet  
01/19/2015 MI, WM  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RISER SHAFT SECTIONS AND DETAILS (SHEET 2 OF 3)**  
**RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT**

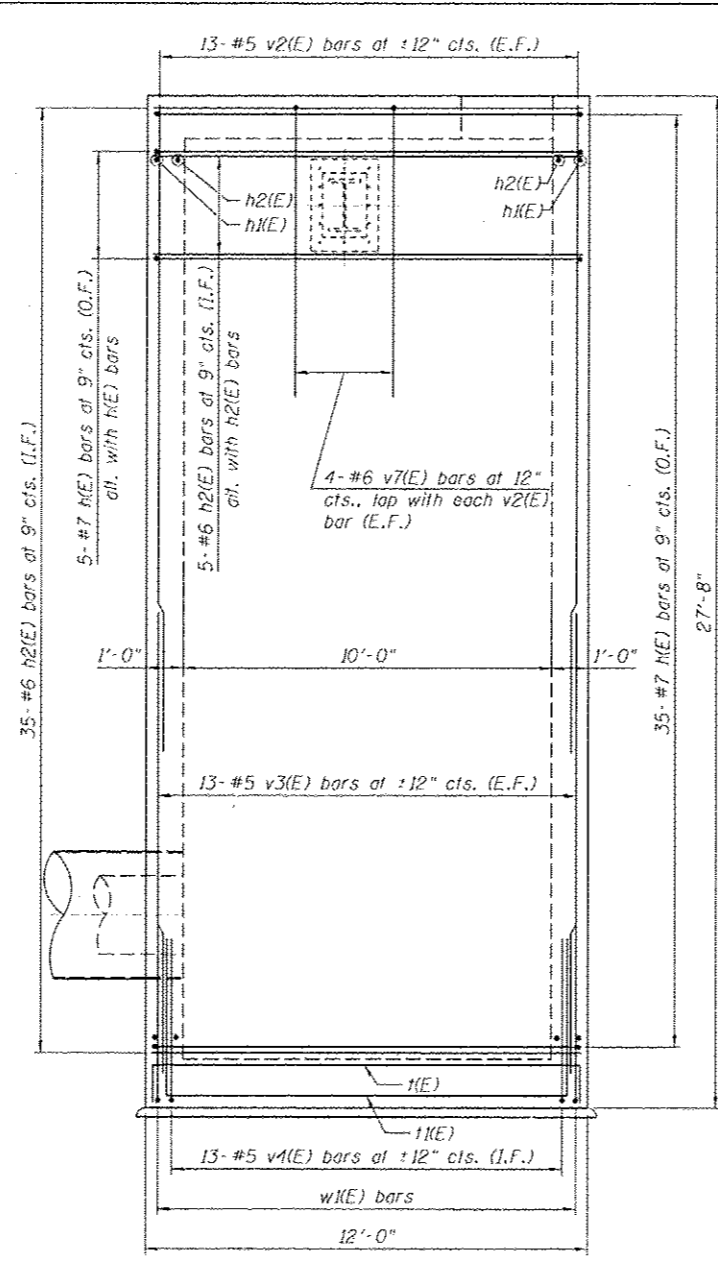
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/293	2013-007R	COOK	317	204
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S2-09 OF 12 SHEETS STA. TO STA.

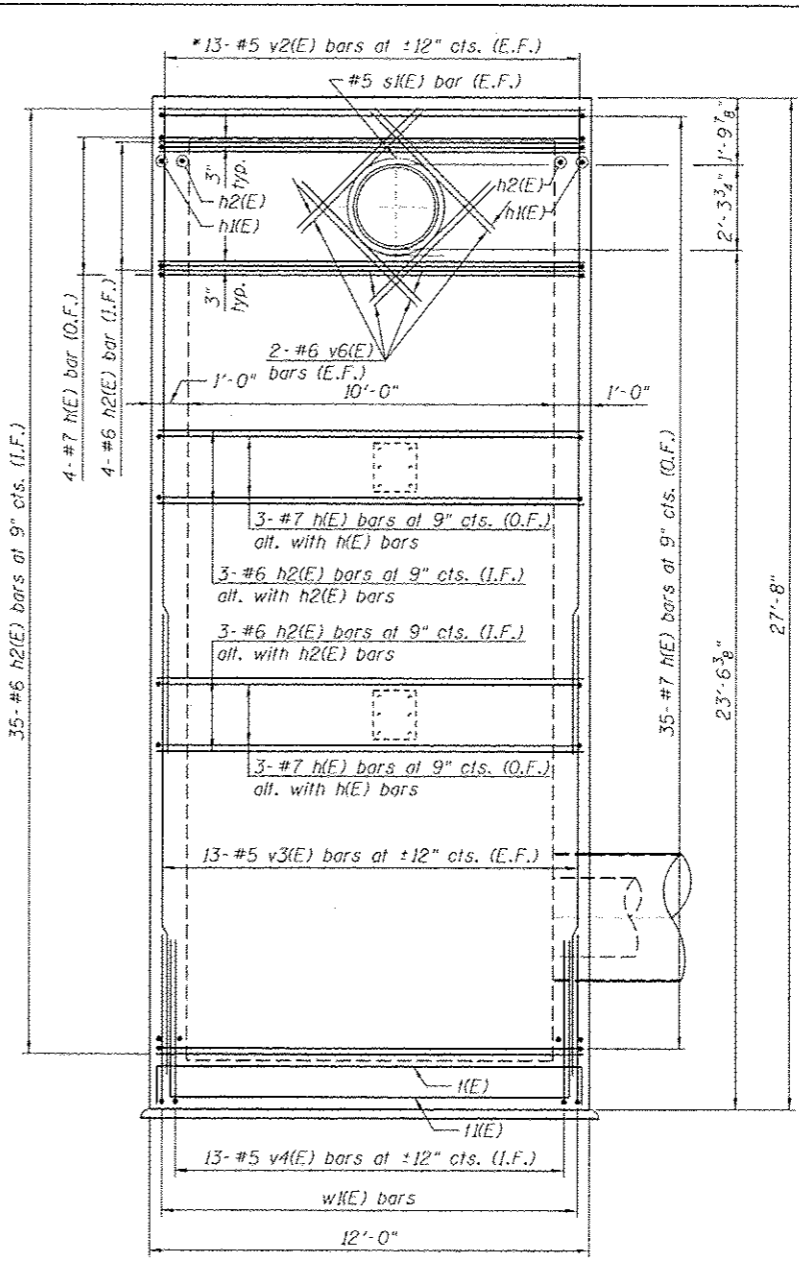
\*Order bars at full length and cut in field to fit



**SOUTH WALL ELEVATION**  
(Looking North)



**EAST WALL ELEVATION**  
(Looking West)



**WEST WALL ELEVATION**  
(Looking East)

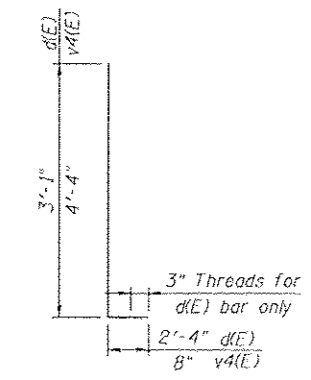
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	20	#5	13'-0"	[Symbol]
a(K(E))	20	#6	11'-8"	[Symbol]
a2(E)	4	#6	4'-10"	[Symbol]
a3(E)	8	#6	3'-10"	[Symbol]
a4(E)	4	#6	2'-10"	[Symbol]
b(E)	20	#5	13'-2"	[Symbol]
b(K(E))	20	#6	11'-8"	[Symbol]
d(E)	10	#5	5'-5"	[Symbol]
d(K(E))	1	#7	15'-9"	[Symbol]
n(E)	89	#7	22'-0"	[Symbol]
n(K(E))	74	#7	11'-8"	[Symbol]
n2(E)	159	#6	11'-8"	[Symbol]
n(E)	10	#5	4'-8"	[Symbol]
n(K(E))	25	#5	2'-10"	[Symbol]
n2(E)	5	#5	6'-8"	[Symbol]
s(E)	2	#5	16'-4"	[Symbol]
s(K(E))	4	#5	12'-2"	[Symbol]
s2(E)	6	#5	12'-7"	[Symbol]
s3(E)	8	#5	8'-4"	[Symbol]
t(E)	25	#6	13'-2"	[Symbol]
t(K(E))	25	#6	22'-0"	[Symbol]
v(E)	52	#5	15'-9"	[Symbol]
v(K(E))	52	#5	14'-7"	[Symbol]
v2(E)	52	#5	17'-9"	[Symbol]
v3(E)	52	#5	12'-7"	[Symbol]
v4(E)	52	#5	5'-0"	[Symbol]
v5(E)	16	#6	6'-2"	[Symbol]
v6(E)	16	#6	4'-8"	[Symbol]
v7(E)	8	#6	11'-10"	[Symbol]
w(E)	25	#6	13'-4"	[Symbol]
w(K(E))	25	#6	22'-0"	[Symbol]
Concrete Structures			Cu Yd	65.0
Reinforcement Bars, Epoxy Coated			Pound	16,990

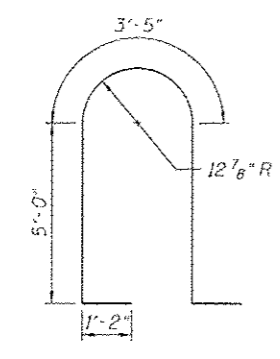
Bar	Lap
#4	2'-7"
#5	3'-3"
#6	3'-10"
#7	5'-2"
#8	6'-9"

**NOTES**

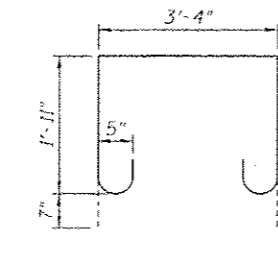
- The North Wall is similar to the east wall with the exception of the additional bars around the pipe support plate.
- The minimum concrete cover shall be 2".



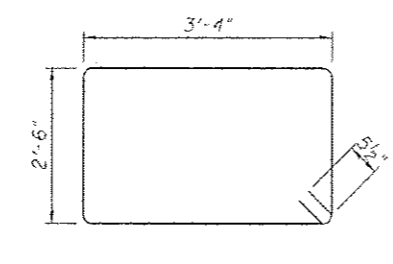
**BARS d(E), v4(E)**



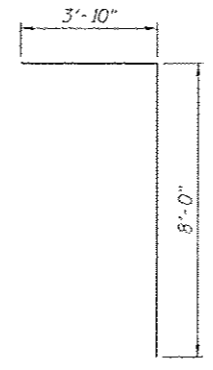
**BAR d(K(E))**



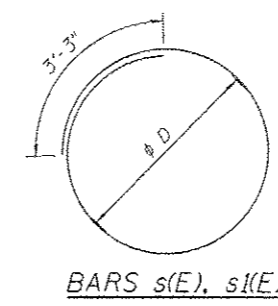
**BAR s3(E)**



**BAR s2(E)**

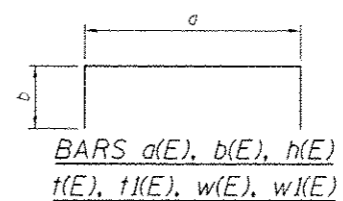


**BAR v7(E)**



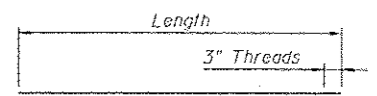
**BARS s(E), s(K(E))**

Bar	phi D
s(E)	4'-2"
s(K(E))	2'-10"



**BARS a(E), b(E), n(E), t(E), t(K(E)), w(E), w(K(E))**

Bar	a	b
a(E)	11'-8"	8"
b(E)	11'-8"	9"
n(E)	11'-8"	5'-2"
t(E)	11'-8"	9"
t(K(E))	11'-8"	5'-2"
w(E)	11'-8"	10"
w(K(E))	11'-8"	5'-2"

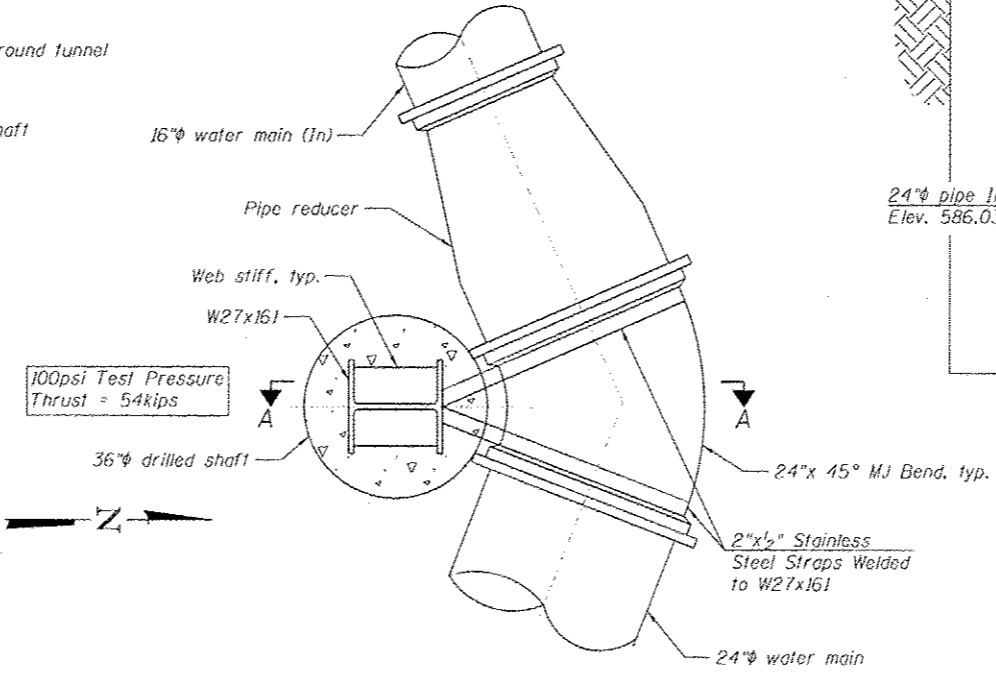
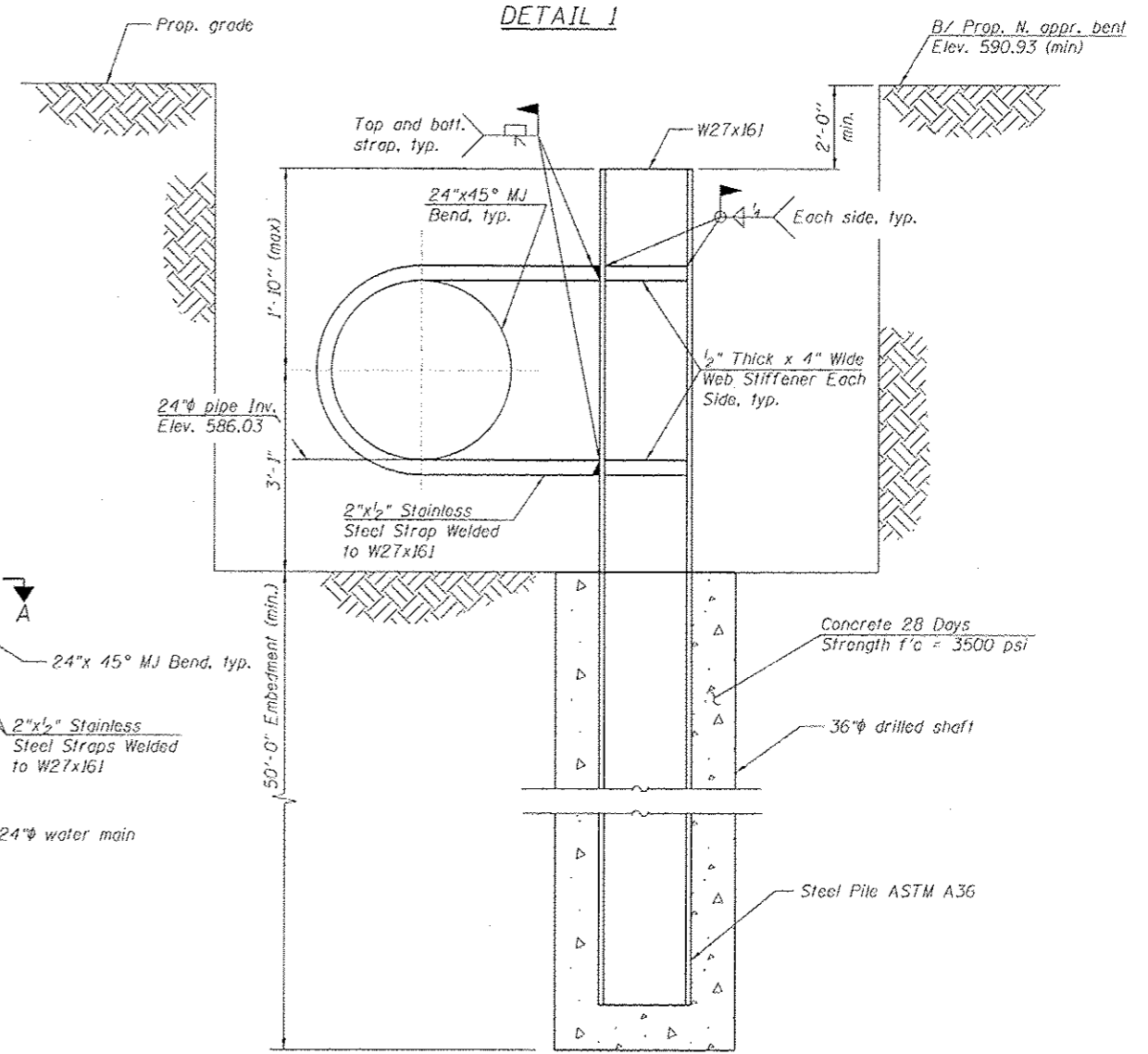
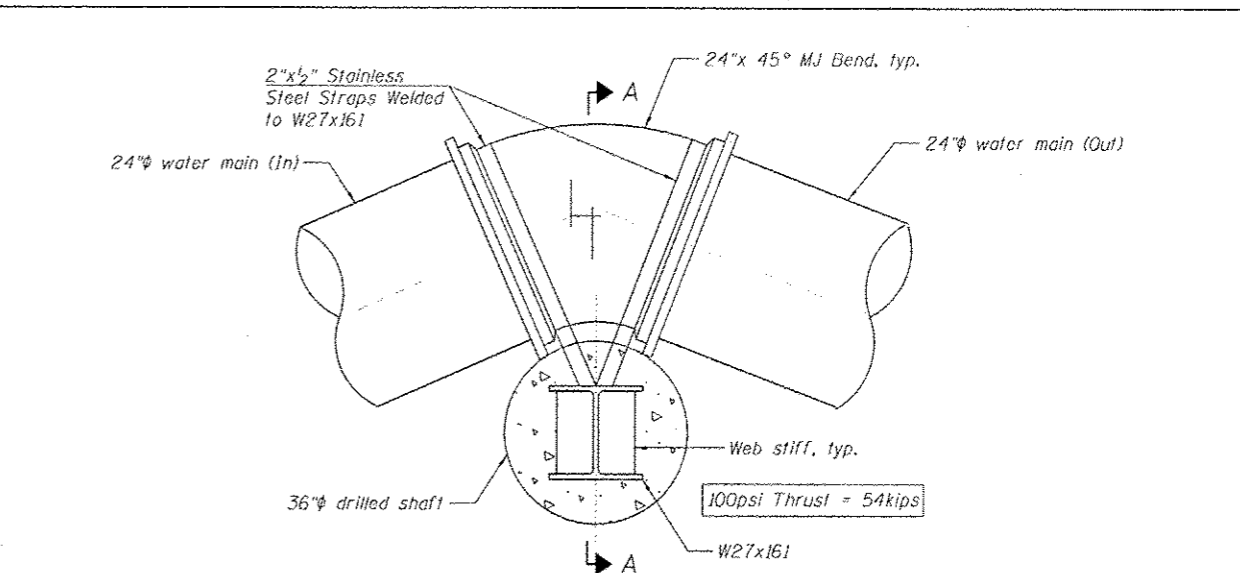
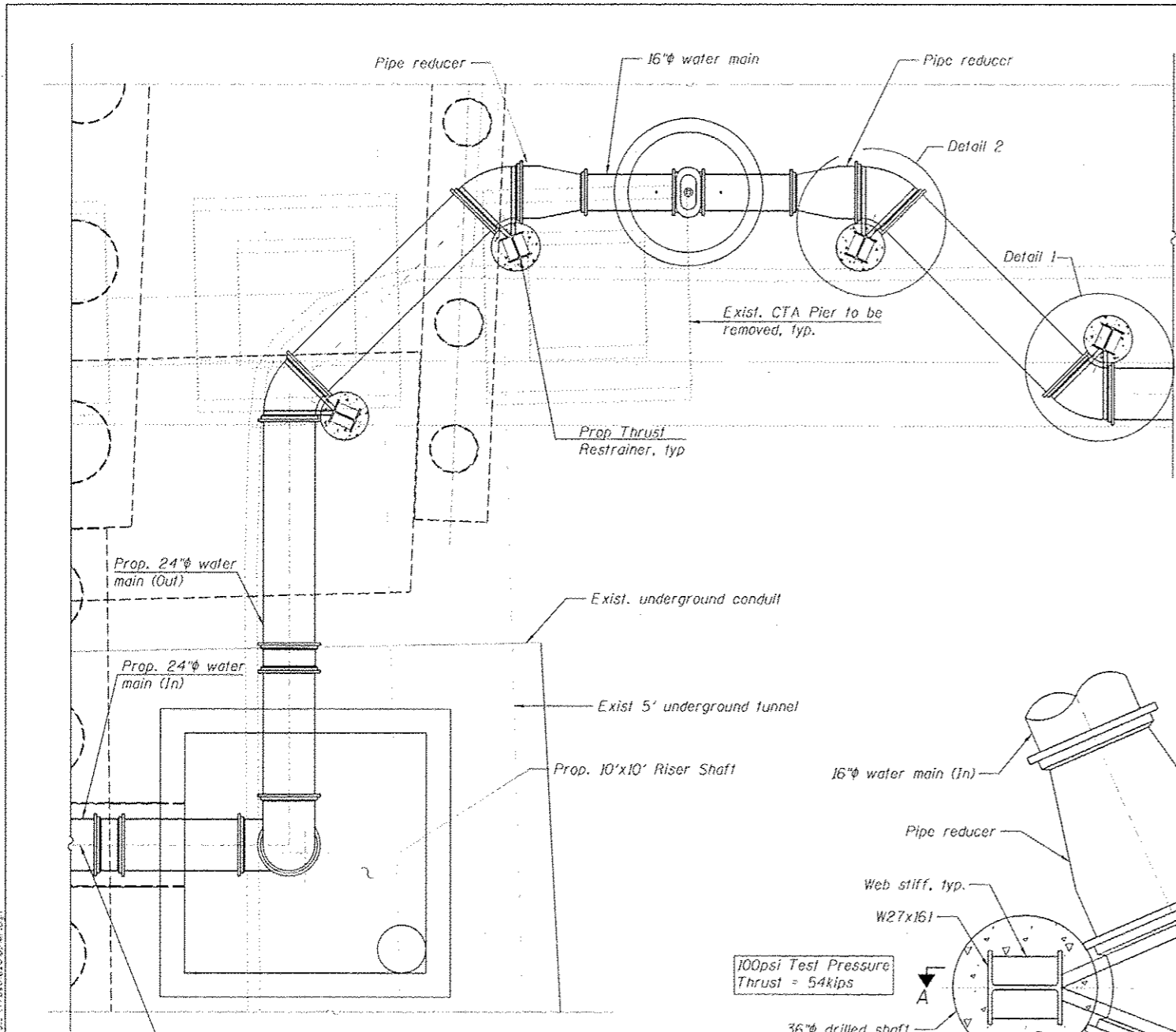


**BARS n(E), n(K(E), n2(E))**

**LEGEND:**

- E.F. - Each Face
- I.F. - Inside Face
- O.F. - Outside Face

HBM ENGINEERING GROUP, INC. CONSULTING & DESIGN INSPECTION & TESTING RESEARCH & TESTING  
 4415 WEST HARRISON ST. SUITE 231 MILLSIDE, IL 60162 PHONE: 708.236.0900 FAX: 708.236.0901  
 01/19/2013 M1, W1  
 07/17/2013  
 6/17/2013  
 07/15/2013



THRUST RESTRAINER PLAN

DETAIL 2

SECTION A-A

NOTES:

1. For General Notes, see Sheet S2-02.
2. All water main pipe joints are to be restrained.
3. Permanent thrust restraint structure shown is designed to resist a maximum 54kip horizontal thrust load in pipe longitudinal direction.
4. Steel pile shall be ASTM A-36.
5. Stainless steel strap shall be ASTM Grade 304L.
6. Welds shall be in compliance with AWS D1.1 "Structural Welding Code - Steel", latest edition.
7. The steel pile shall be paid under "Furnishing and Erecting Structural Steel".
8. After drilling the bore, install the steel pile and pour the concrete.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing and Erecting Structural Steel	POUND	35,370
Drilled Shaft in Soil	CU YD	53

Added sheet

**HBM**  
 CONSULTING & DESIGN  
 INSPECTION & TESTING  
 RESEARCH & TESTING  
 4415 WEST HARRISON ST.  
 SUITE 231  
 HILLSDALE, IL 60122  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

0161724-6B25-S11-ThrustRestrainer.dgn  
 USER NAME: ohoed, jss  
 PLOT SCALE: 360,0000 1/1 in.  
 PLOT DATE: 7/15/2013

DESIGNED - MI, WM  
 DRAWN - WM  
 CHECKED - MAI, MI, JJS  
 DATE - 6/17/2013  
 REVISED - A 07/19/2013 MI, WM  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PERMANENT THRUST RESTRAINERS PLAN, SECTIONS AND DETAILS  
 RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT

SCALE: SHEET S2-11 OF 12 SHEETS STA. TO STA.

F.A.I. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	206

CONTRACT NO. 60W25  
 ILLINOIS FED. AID PROJECT



# BORING LOG 2113-B-01

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM - DRAFT**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 594.97 ft  
North: 1898089.14 ft  
East: 1169854.00 ft  
Station: 3605+74.45  
Offset: 08.76 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
594.0	2.75-inch thick ASPHALT --PAVEMENT--												
593.0	11.25-inch thick CONCRETE --PAVEMENT--												
	Loose to very dense, brown SANDY LOAM to SAND, trace gravel												
	--FILL--												
		1	14	26	33	NP	31		11	0	1	0.25	28
		2	12	10	9	NP	18		12	1	1	0.08	28
		3	9	9	7	NP	25		13	0	1	0.18	28
		4	4	6	8	NP	28		14	0	1	0.33	26
		5	8	8	7	NP	36		15	0	1	0.41	27
		6	3	4	4	NP	43		16	1	1	0.57	26
679.6	Very soft to medium stiff, gray CLAY to SILTY CLAY												
		7	0	1	1	B	23						
		8	0	0	1	B	25						
		9	0	0	0	B	26						
		10	0	1	1	B	26						

### GENERAL NOTES

Begin Drilling: 02-18-2013 Complete Drilling: 02-24-2013  
 Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR  
 Driller: R&J Logger: F.Bozga Checked by: C. Marin  
 Drilling Method: 2.25" SSA to 15', Mud Rotary 15' thereafter

### WATER LEVEL DATA

While Drilling: 13.00 ft  
 At Completion of Drilling: MUD (10')  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.



# BORING LOG 2113-B-01

wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

WEI Job No.: 1100-04-01  
Client: **AECOM - DRAFT**  
Project: **Circle Interchange Reconstruction**  
Location: **Sections 16 and 17, T39N, R14E of 3rd PM**

Datum: NAVD 88  
Elevation: 594.97 ft  
North: 1898089.14 ft  
East: 1169854.00 ft  
Station: 3605+74.45  
Offset: 08.76 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
543.6	Stiff to hard, gray SILTY CLAY LOAM, trace gravel												
	--L <sub>c</sub> (%)=28, P <sub>c</sub> (%)=15-- --%Gravel=2.2-- --%Sand=16.9--55 --%Silt=54.8-- --%Clay=26.1-- --A-6 (8)--												
		17	3	5	7	B	1.97	16		22	14	25	> 4.50 P
		18	6	9	14	B	5.82	13		23	17	26	> 4.50 P
		19	6	8	14	B	2.13	22		24	40	50/4	NP
		20	7	13	15	NP	20	20		25	50/3	NP	14
609.0	Very dense, gray SANDY LOAM												
628.2	Medium dense, gray SILTY LOAM, trace clay lenses												
	--%Gravel=1.1-- --%Sand=6.7-- --%Silt=77.2--70 --%Clay=15.0-- --A-4 (0)--												
		21	19	32	41	P	> 4.50	12					
683.0	Very dense, gray GRAVELLY SAND, some dolostone fragments												
699.0	--AUGER REFUSAL--												
499.0	Boring terminated at 96.00 ft												

### GENERAL NOTES

Begin Drilling: 02-18-2013 Complete Drilling: 02-24-2013  
 Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR  
 Driller: R&J Logger: F.Bozga Checked by: C. Marin  
 Drilling Method: 2.25" SSA to 15', Mud Rotary 15' thereafter

### WATER LEVEL DATA

While Drilling: 13.00 ft  
 At Completion of Drilling: MUD (10')  
 Time After Drilling: NA  
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

FILE PATH: \\WANGENG\ENR\Red-mfg\1100\1100-04-01\1100-04-01-2113-B-01.mxd

**HBM**  
 ENGINEERING GROUP, LLC  
 CONSULTING & DESIGN  
 CORPORATION & TESTING  
 RESEARCH & TESTING

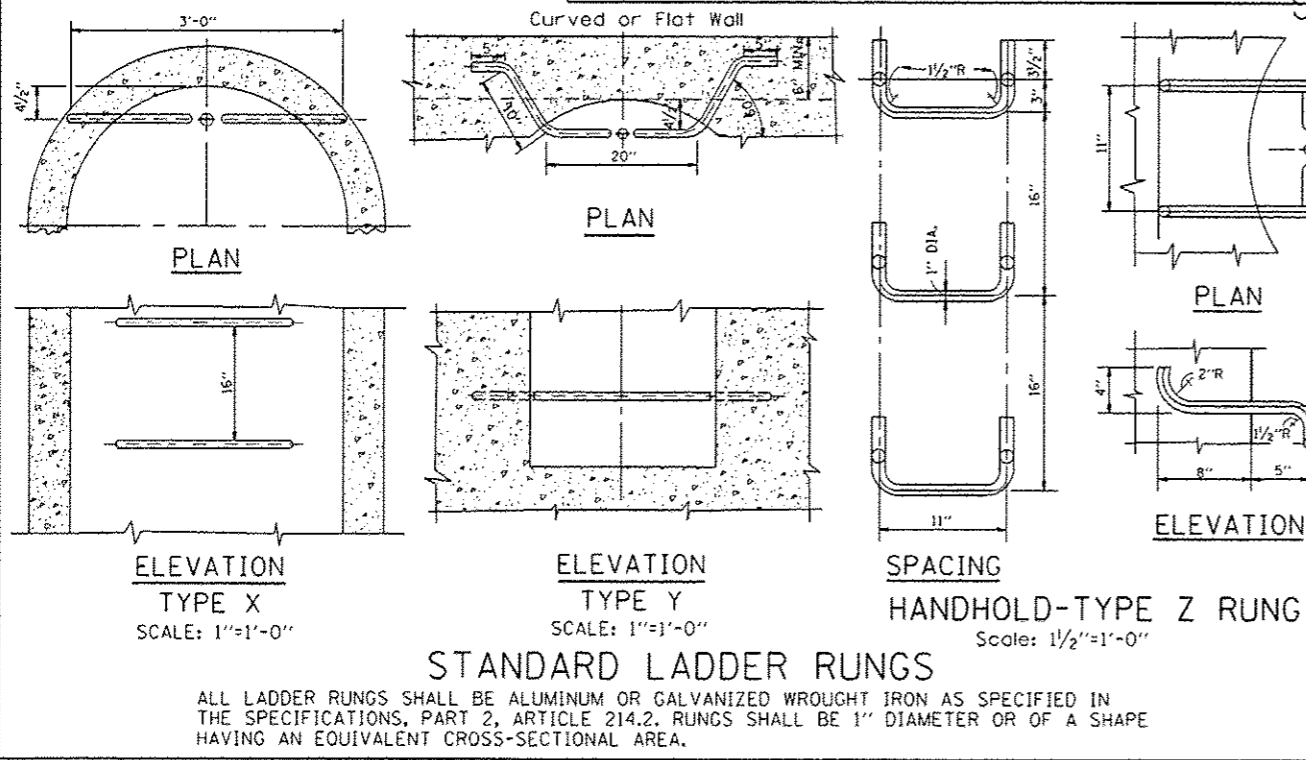
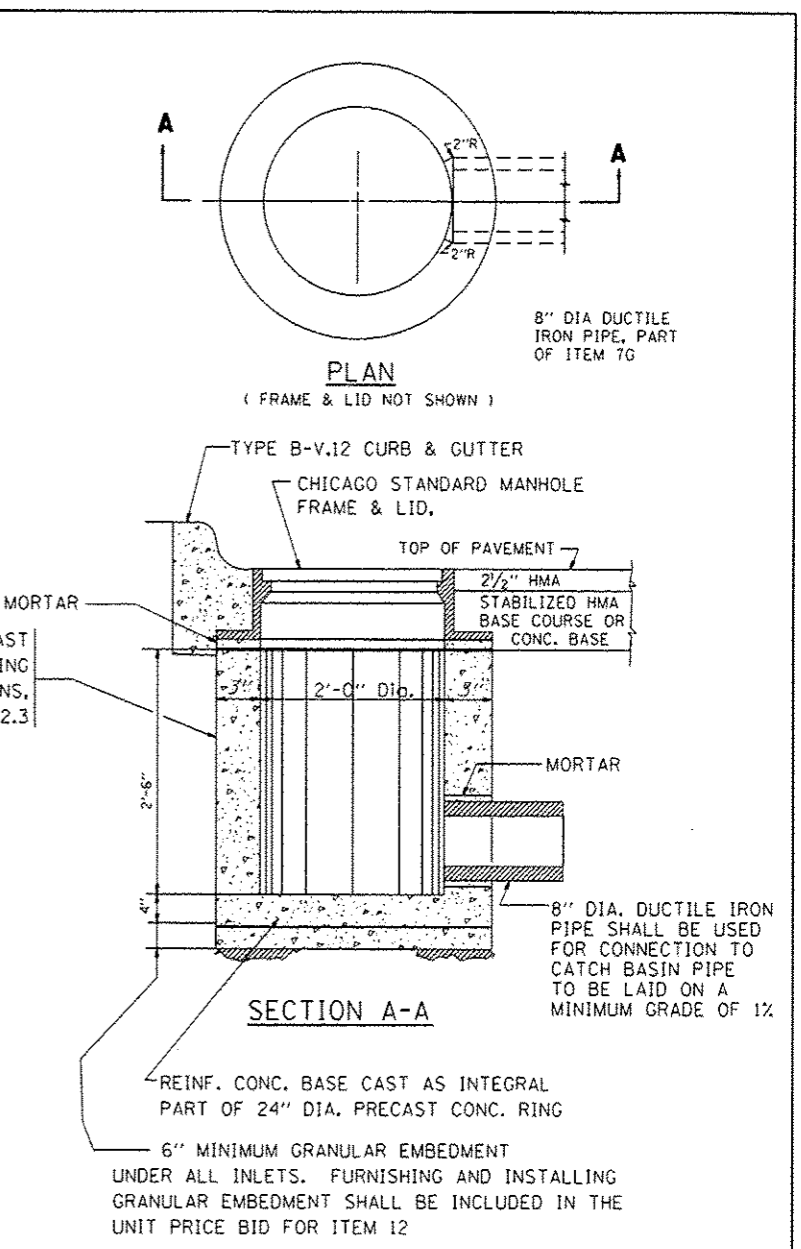
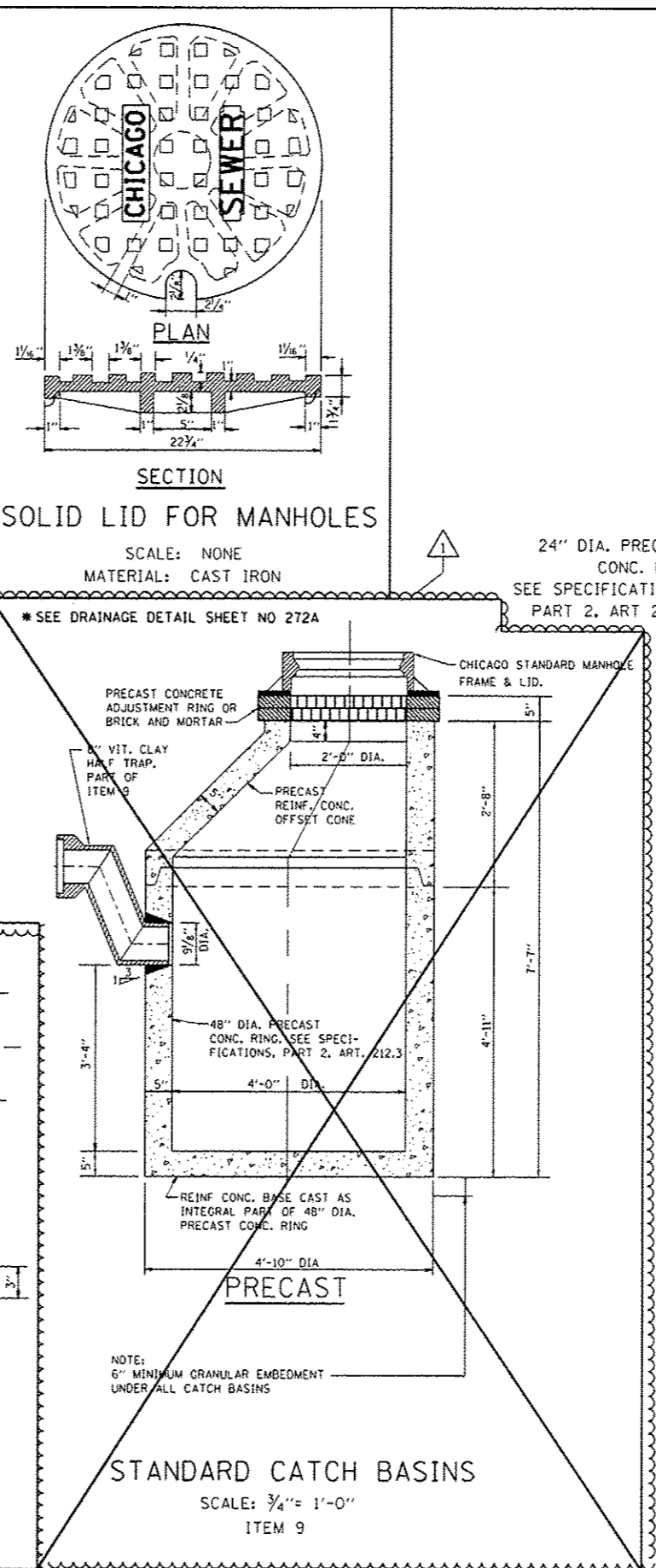
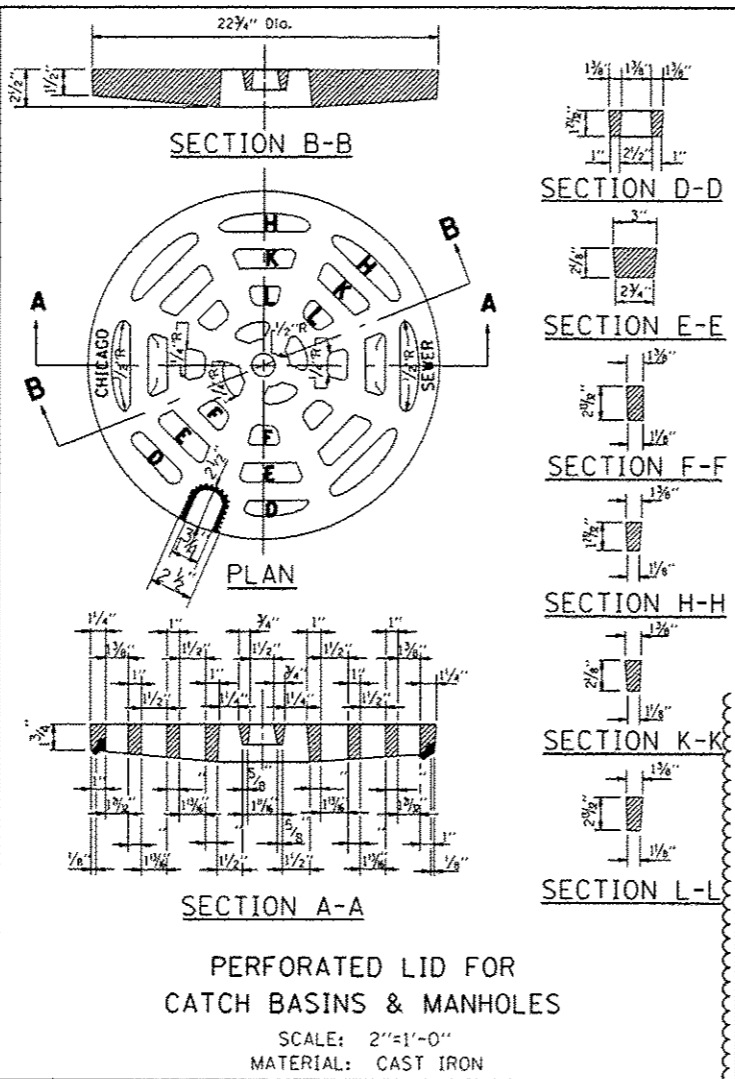
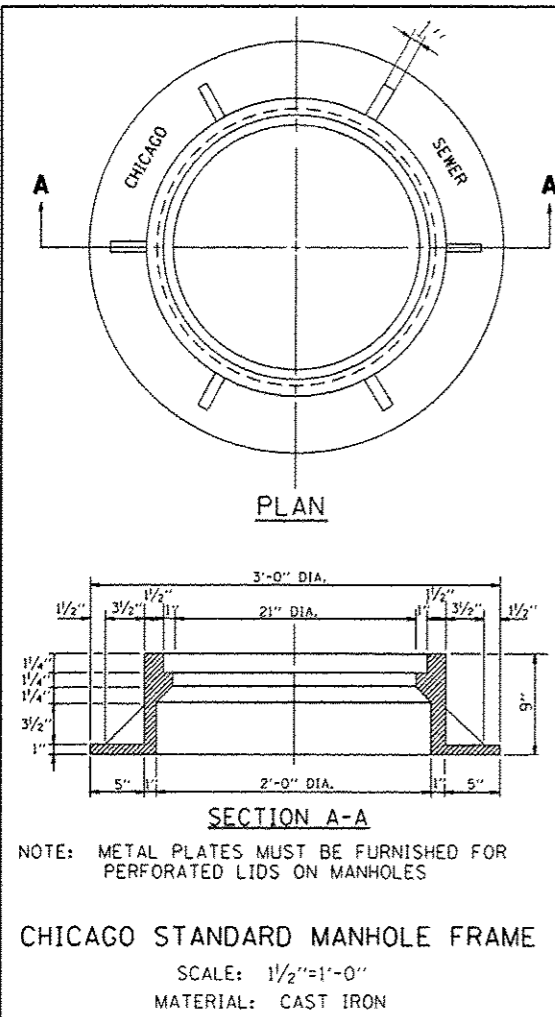
4415 WEST HARRISON ST.  
 SUITE 231  
 MELROSE, IL 60162  
 PHONE: (708) 236-0900  
 FAX: (708) 236-0901

DESIGNER: JJS	REVISION: 1/19/2013, MI, JJS
DRAWN: JJS	REVISION:
CHECKED: MI, MAF	REVISION:
DATE: 6/17/2013	REVISION:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**BORING LOG**  
 RETAINING WALL (STRUCTURE NO. 016-1724) AND RISER SHAFT

P.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/91/290	2013-007R	COOK	317	207
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	



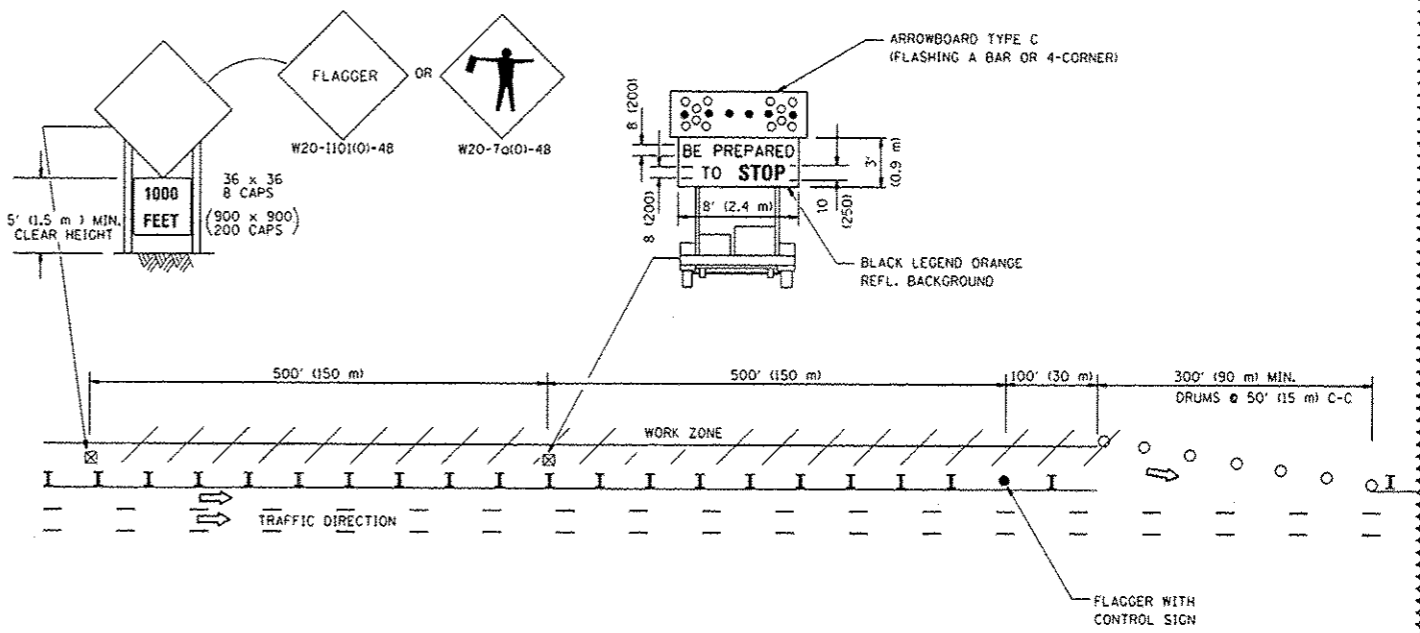
FILE NAME: p:\388839-pv\nt\loc\online\local\p\ae\...	USER NAME: chup	DESIGNED: M. GOMEZ	REVISED: 7/19/2013
...	...	CHECKED: ...	REVISED: ...
...	...	DATE: 01-25-01	REVISED: ...

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CITY OF CHICAGO CATCH BASIN, INLET AND MANHOLE DETAILS	
SCALE: NONE	SHEET NO. 6 OF 31 SHEETS	STA. TO STA.	
		F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	
		BD600-13 (BD47) COOK 317 238	
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

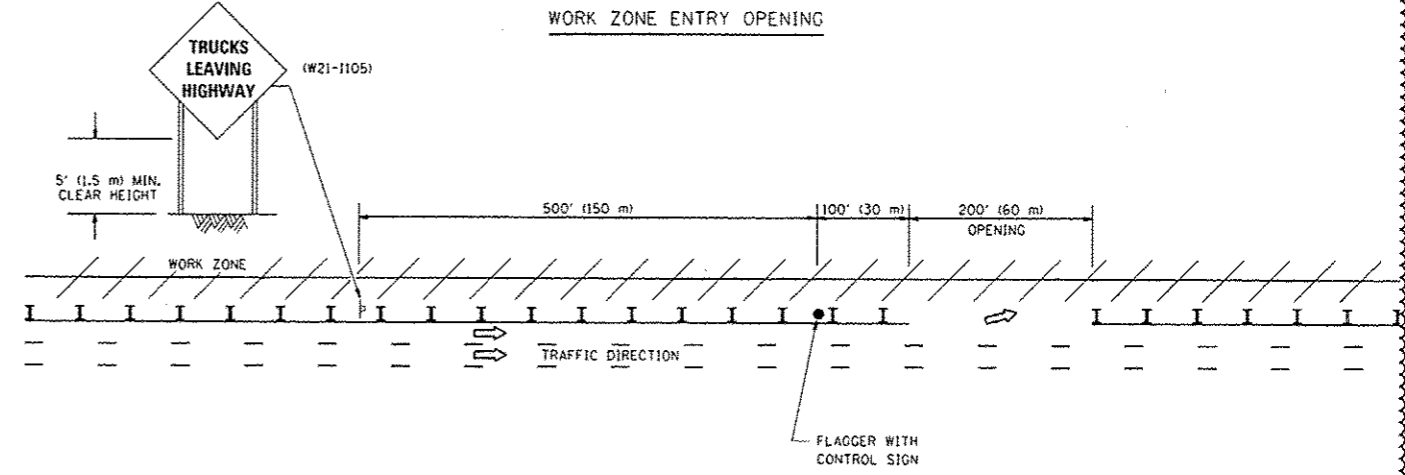


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
  2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
  3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
  4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

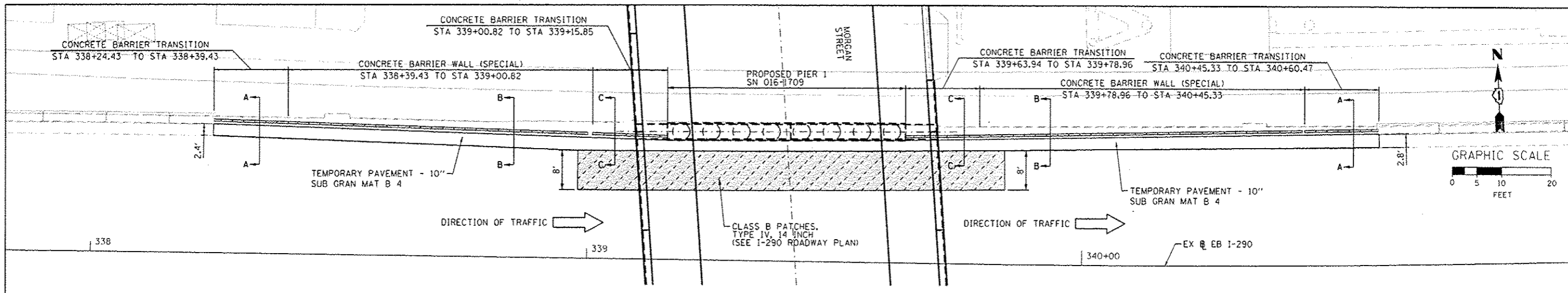
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
PA\68288727\000_CAD\010_Standards\010.1	ehus	-	- J.A.F. 04-03
	SN 016-1789 Morgan Street\Bureau of Traffic	DRAWN :	REVISED :
	Standards All\std.dgn	-	- J.A.F. 02-06
	PLOT SCALE = 50,000 / 1" = 100'	CHECKED :	REVISED :
		-	- S.P.B. 01-07
	PLOT DATE = 7/16/2013	DATE :	REVISED :
		-	- S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS

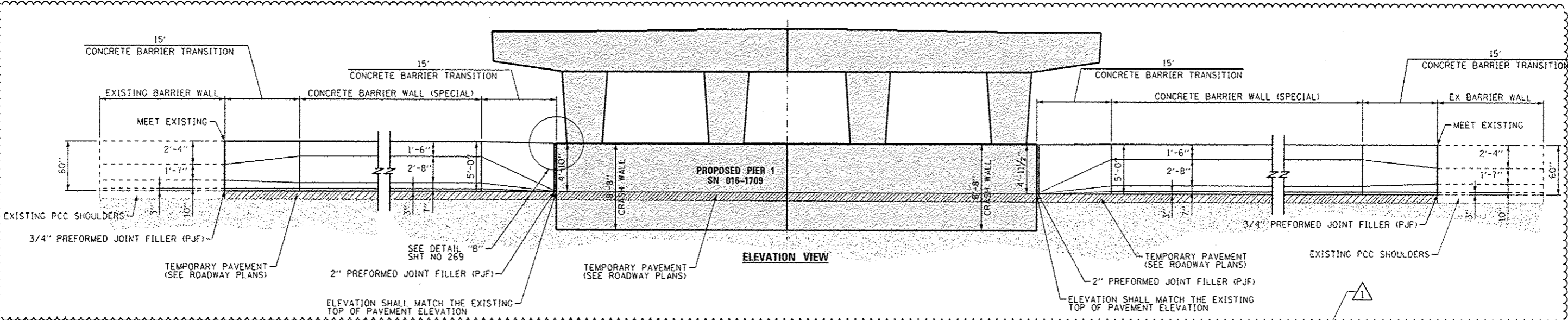
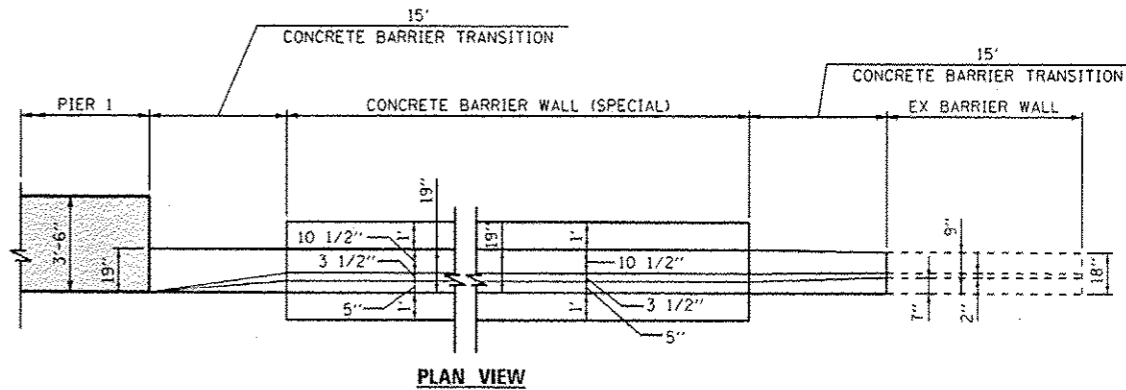
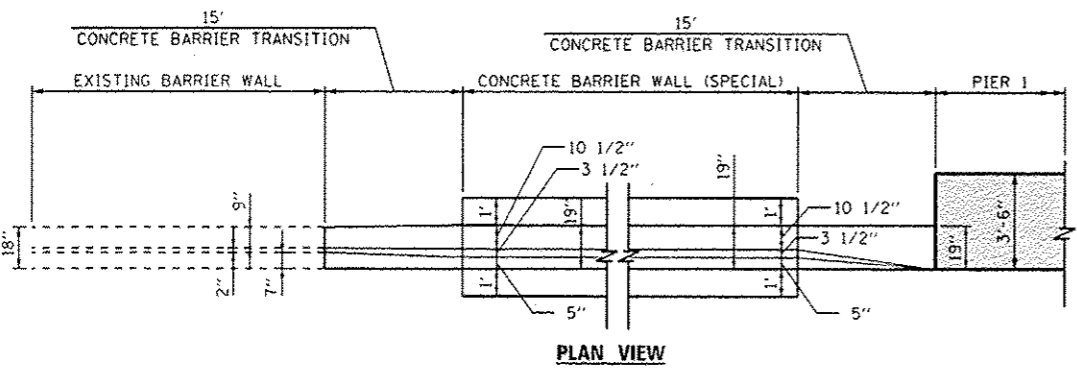
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2013-007R	COOK	317	261C
				TC-18	CONTRACT NO. 60W25		
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



**PLAN VIEW**  
**CONCRETE BARRIER WALL (SPECIAL) TRANSITION**  
**TO PROPOSED PIER 1 (SN 016-1709)**

**NOTES:**

1. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER SHALL MEET AASHTO DESIGNATION M-33.
2. ALL WORK DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
3. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
4. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
5. TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10\"/>



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

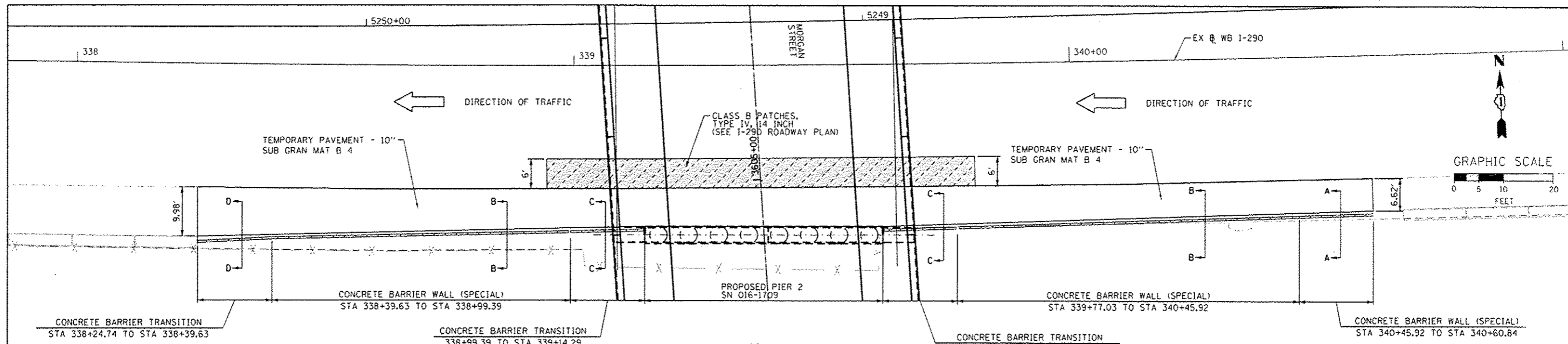
**ROADWAY DETAILS**



DESIGNED - JWM/OPS	REVISED - 7/19/2013
DRAWN - JWM/OPS	REVISED -
CHECKED - DBM	REVISED -
DATE - 6/17/2013	REVISED -

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 267
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				

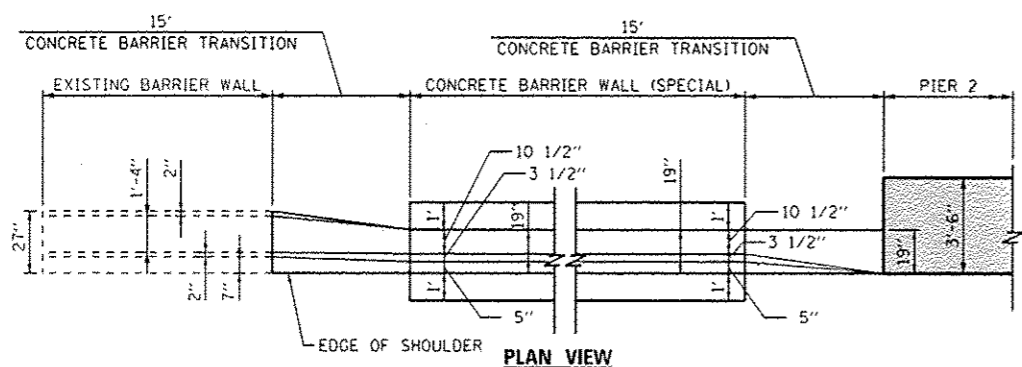
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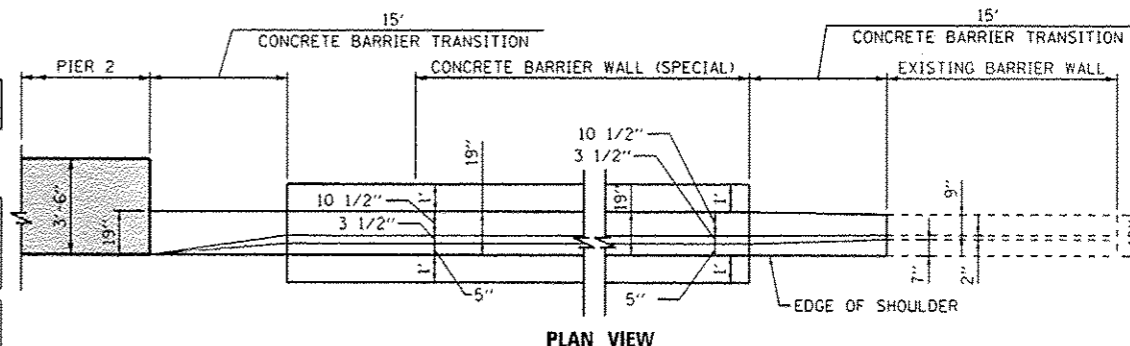
**PLAN VIEW**  
**CONCRETE BARRIER WALL (SPECIAL) TRANSITION**  
**TO PROPOSED PIER 2 (SN 016-1709)**

**NOTES:**

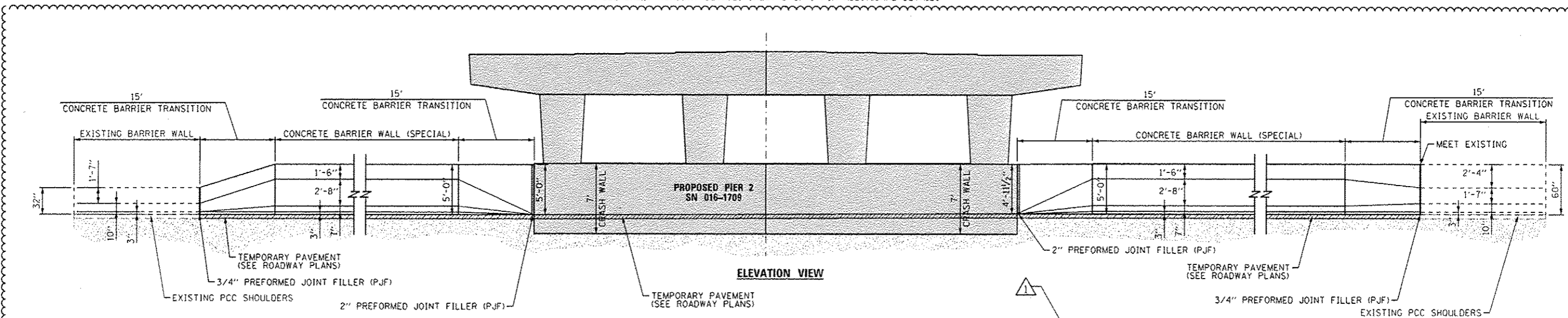
1. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PERFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER SHALL MEET AASHTO DESIGNATION M-33.
2. ALL WORK DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
3. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
4. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
5. TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10\"/>



**PLAN VIEW**



**PLAN VIEW**



**ELEVATION VIEW**



D160W25-shc-Detail-02  
 USER NAME: chun  
 PLOT SCALE: 10.0000 1\"/>

DESIGNED - JWM/OPS	REVISED - 7/19/2013
DRAWN - JWM/OPS	REVISED -
CHECKED - OBM	REVISED -
DATE - 6/17/2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

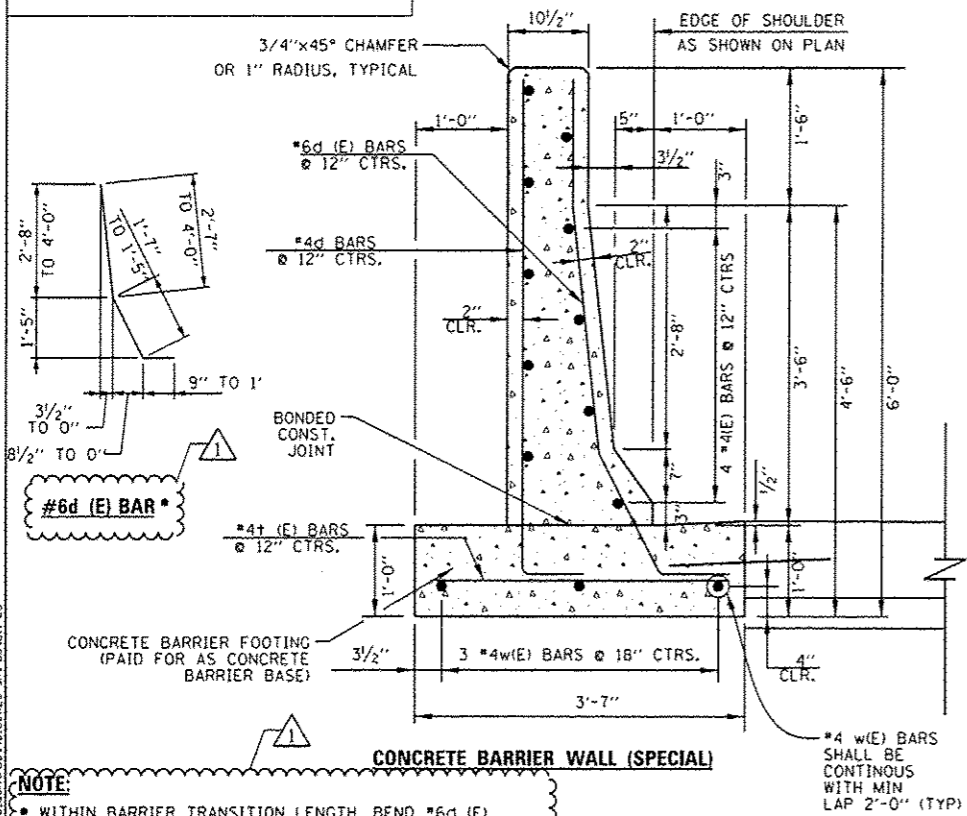
**ROADWAY DETAILS**

SCALE: N.T.S. SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	268
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

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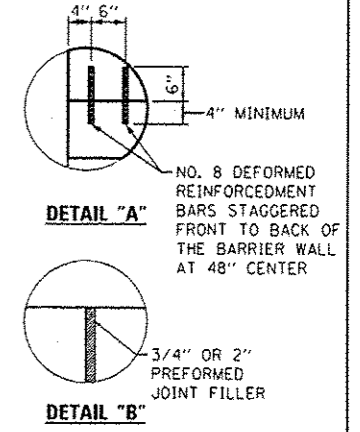
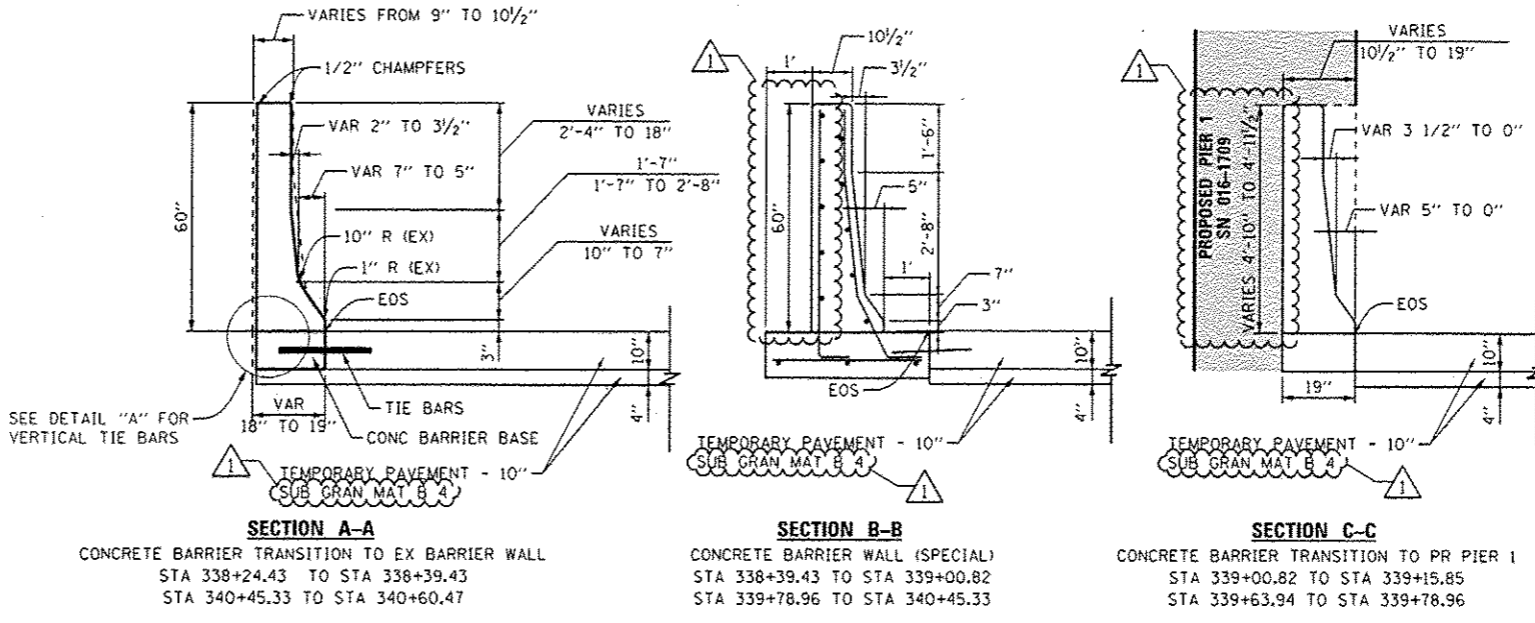
**CONCRETE BARRIER WALL (SPECIAL) DETAILS**



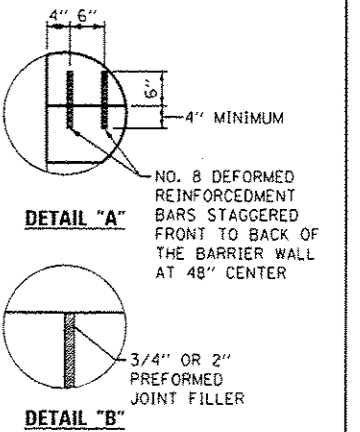
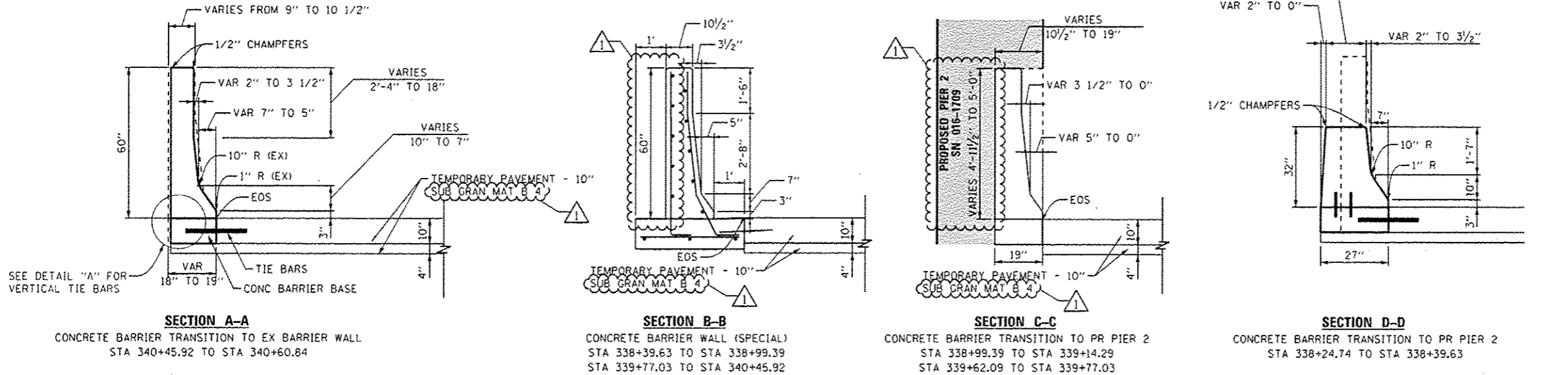
**NOTE:**  
 WITHIN BARRIER TRANSITION LENGTH, BEND #6d (E) BARS IN THE FIELD TO FIT. MAINTAIN MINIMUM 2" CLEARANCE FROM FACE OF CONCRETE AND #6d (E) BARS.

**CONCRETE BARRIER WALL (SPECIAL)**

**CONCRETE BARRIER WALL (SPECIAL) AND CONCRETE BARRIER TRANSITION AT PIER 1**



**CONCRETE BARRIER WALL (SPECIAL) AND CONCRETE BARRIER TRANSITION AT PIER 2**

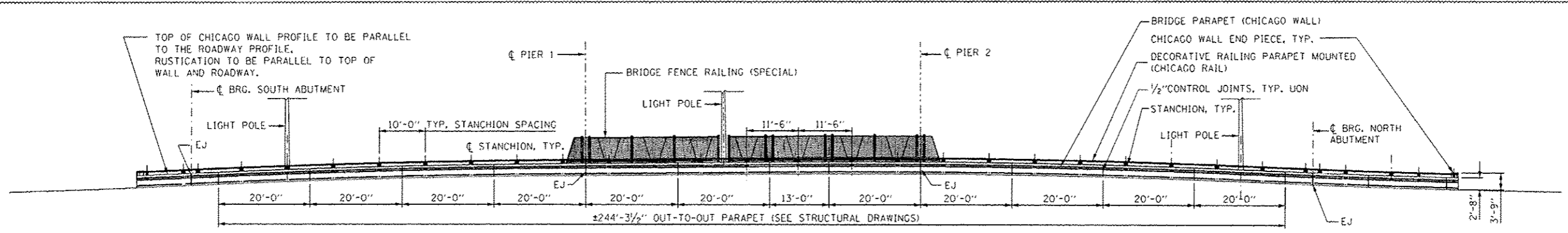


DESIGNED - JWM/OPS      REVISED - 7/19/2013  
 DRAWN - JWM/OPS      REVISED -  
 CHECKED - DBM      REVISED -  
 DATE - 6/17/2013      REVISED -

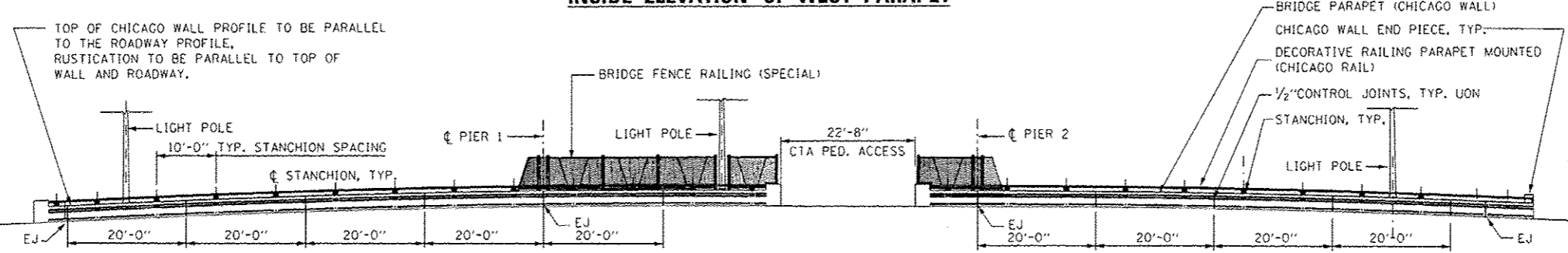
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS  
 SCALE: N.T.S.      SHEET 3 OF 9 SHEETS      STA.      TO STA.

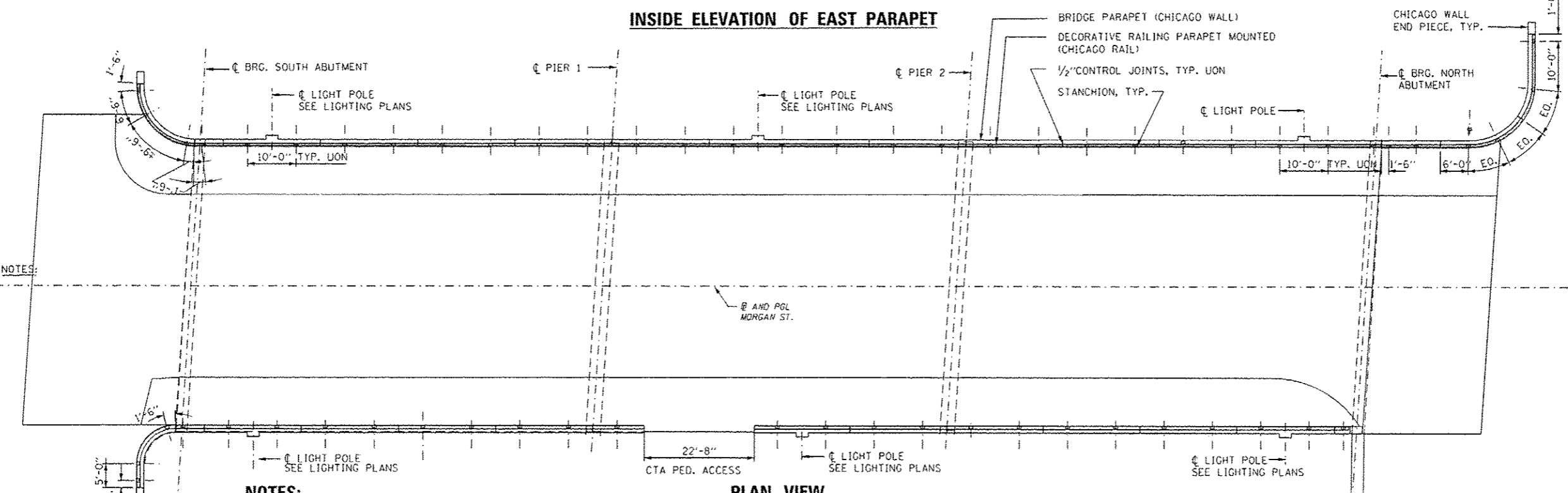
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	269
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF EAST PARAPET



PLAN VIEW

NOTES:

NOTES:

1. FOR BRIDGE FENCE RAILING (SPECIAL) LAYOUT AND POST SPACING, SEE SHEET S1-21.
2. FOR BRIDGE FENCE RAILING (SPECIAL) DETAILS, SEE SHEET S1-21A.
3. FOR DECORATIVE RAILING PARAPET MOUNTED (CHICAGO RAIL) DETAILS, SEE SHEET S1-20.
4. FOR LOCATION OF LIGHT POLE AND TRAFFIC SIGNALS ON BRIDGE SEE SHEET S1-17, ELECTRICAL AND ITS PLANS.
5. THE REVEAL ON THE BRIDGE PARAPET - CHICAGO WALL WILL NOT BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "CONCRETE STRUCTURES". SHOP DRAWINGS SHALL BE SUBMITTED INCLUDING LAYOUT OF THE CHICAGO WALL PATTERN, CHICAGO RAIL, FENCE AND LIGHT POLES.



D:\60W25-sht.Parapet Detail.G1.dgn	DESIGNED - MR	REVISED - 07/19/2013 MR
USER NAME - ristovskan	DRAWN - MR	REVISED -
PLOT SCALE - 1/8"=1'-0"	CHECKED - GG	REVISED -
PLOT DATE - 7/16/2013	DATE - 6/17/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

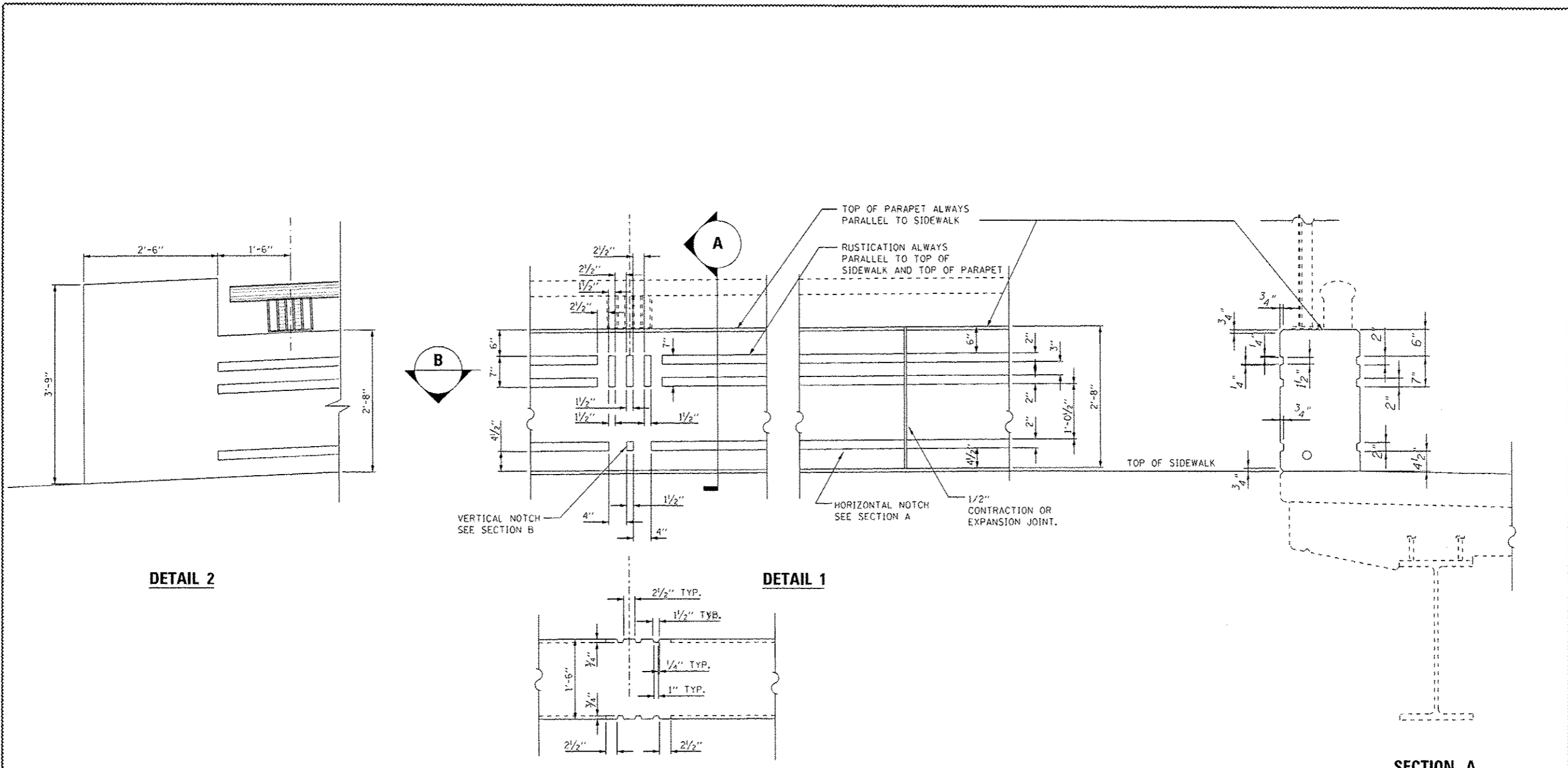
ROADWAY DETAILS  
BRIDGE PARAPET

SCALE: SHEET 8 OF 9 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-007R	COUNTY COOK	TOTAL SHEETS 317	SHEET NO. 269E
CONTRACT NO. 60W25				
ILLINOIS FED. AID PROJECT				



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**NOTES:**

- FOR BRIDGE FENCE RAILING (SPECIAL) LAYOUT AND POST SPACING, SEE SHEET S1-21.
- FOR BRIDGE FENCE RAILING (SPECIAL) DETAILS, SEE SHEET S1-21A.
- FOR DECORATIVE RAILING PARAPET MOUNTED (CHICAGO RAIL) DETAILS, SEE SHEET S1-20.
- FOR LOCATION OF LIGHT POLE AND TRAFFIC SIGNALS ON BRIDGE SEE SHEET S1-17, ELECTRICAL AND ITS PLANS.
- THE REVEAL ON THE BRIDGE PARAPET - CHICAGO WALL WILL NOT BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "CONCRETE STRUCTURES". SHOP DRAWINGS SHALL BE SUBMITTED INCLUDING LAYOUT OF THE CHICAGO WALL PATTERN, CHICAGO RAIL, FENCE AND LIGHT POLES.



D16W25-sht_Parapet_Detail_02.dgn	DESIGNED - MR	REVISED - 07/19/2013 MR
USER NAME: rristoukian	DRAWN - MR	REVISED -
PLOT SCALE: 1/8" = 1'-0" / in.	CHECKED - GG	REVISED -
PLOT DATE: 7/16/2013	DATE - 6/17/2013	REVISED -

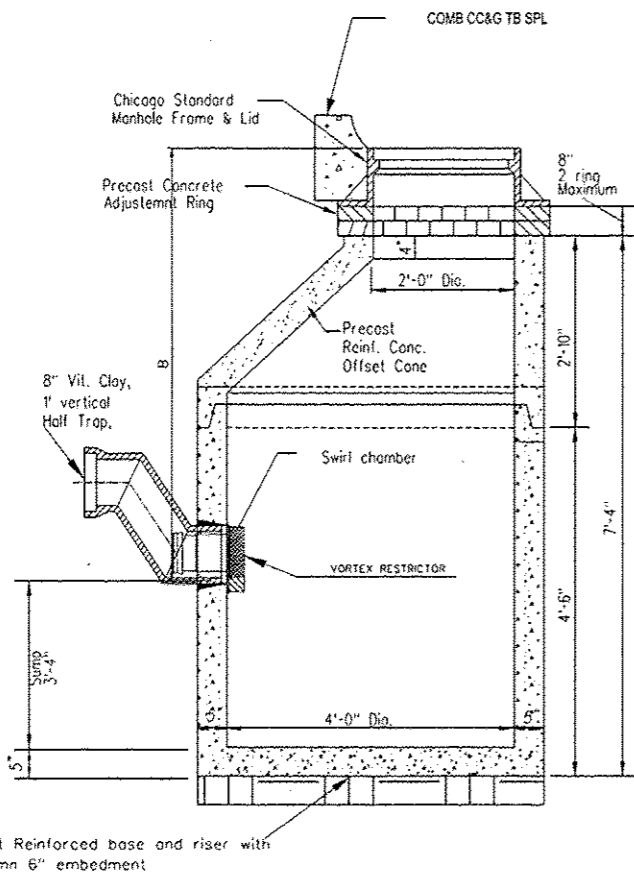
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS  
BRIDGE PARAPET

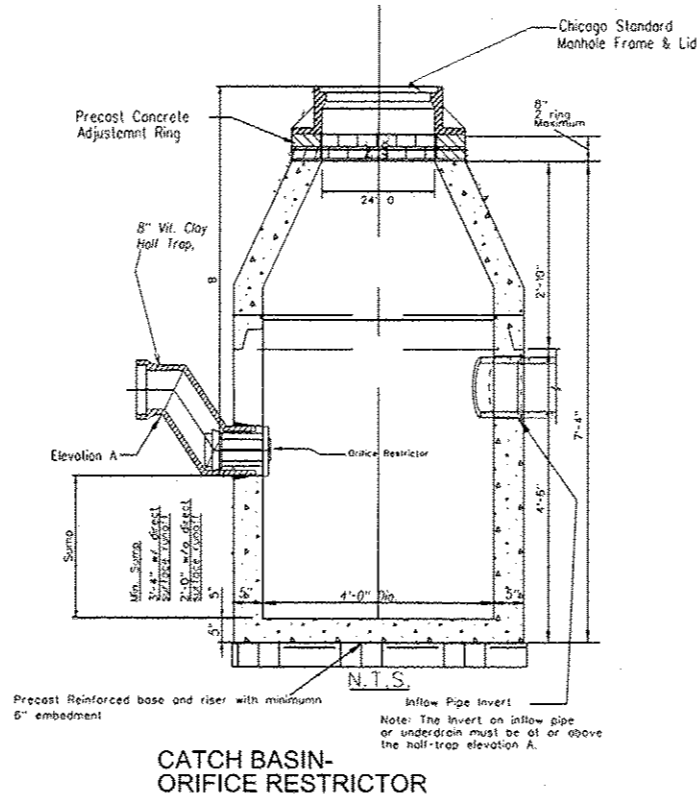
SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	269F
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	

**STANDARD DRAINAGE STRUCTURES  
FOR PUBLIC STREETS**



**STANDARD CATCH BASIN-4' Dia.**

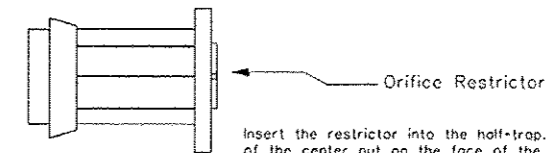


**CATCH BASIN-  
ORIFICE RESTRICTOR**

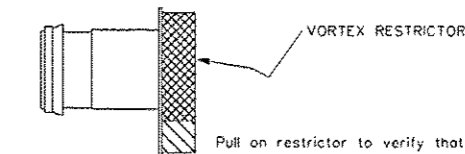
**NOTES:**

1. For any drain tile connection, the water table must be at least 3.5 feet below elevation A.
2. PVC underdrains must be 4" minimum diameter, (6" recommended) and must be wrapped in GeoTech Fabric.

**DRAINAGE STRUCTURES  
RESTRICTORS**



Insert the restrictor into the half-trap. Upon tightening of the center nut on the face of the restrictor, the rubber O-rings will expand inside the half-trap, providing a water-tight seal.  
Pull on restrictor to verify that a tight fit is made.



Pull on restrictor to verify that a tight fit is made.  
Insert the restrictor with the opening down. Upon tightening of the 2 bolts on the face of the restrictor, the rubber O-rings will provide a water-tight seal.

**GENERAL NOTES:**

1. Catch basin to Catch Basin connections are allowed in private sites & alleys. Only the downstream catch basin is required to have a half-trap.
2. If B < 4 feet, then use a Ductile Iron Pipe Half Trap and Flat Top Slab Catch Basin as necessary.

**RESTRICTOR NOTES:**

The DWM's Rain Blocker Restrictor Program must be maintained with any roadway improvement.

The design of any roadway improvement must consider limiting the number of catch basins to the extent practical. The number of existing structures should not be increased.

The restrictors can be obtained from DWM Central District at 3901 S. Ashland Ave. The contractor should arrange for pick up by contacting 312-747-1177 (7am to 3pm, M-F)

Flow restrictors must be installed in all catch basins outside of the Central Business District. Restrictors must not be installed in catch basins in close proximity to viaduct areas, bus stops, or emergency entrances. The DWM must approve the non-installation or removal of any restrictor. Requirements for restrictor installation are as follows:

- \*Arterial Streets: 3-inch Orifice Restrictor
- \*Bus Routes: 3-inch Orifice Restrictor
- \*Residential Streets: 3-inch vortex Restrictor
- \*Alleys: 3-inch Orifice Restrictor in the last CB.
- \*Closed lids are required on all manholes except at intersections where a perforated lid shall be used.

FILE PATH: c:\pwworking\AECOM\Projects\60625-DRN\Drawings\60625-DRN-04.dwg  
 USER: aecoman\jason.l.parker  
 PLOT DATE: 7/14/2013  
 PLOT SCALE: 20,000.00 / in.  
 USER NAME: jason.l.parker  
 DESIGNED: AFC  
 DRAWN: AFC  
 CHECKED: DBM  
 DATE: 7/19/2013



60625-DRN-04  
 USER NAME: jason.l.parker  
 PLOT SCALE: 20,000.00 / in.  
 PLOT DATE: 7/14/2013

DESIGNED	- AFC	REVISED	- 7/19/2013
DRAWN	- AFC	REVISED	-
CHECKED	- DBM	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE DETAILS  
CITY OF CHICAGO - STANDARD CATCH BASINS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	317	272A
CONTRACT NO. 60W25			ILLINOIS FED. AID PROJECT	