

08-02-13 LETTING ITEM 096

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET AND INDEX OF SHEETS
2	INDEX OF STANDARDS
3-4	GENERAL NOTES
5-6	SUMMARY OF QUANTITIES
7-20	SCHEDULE OF QUANTITIES
21	EXISTING TYPICAL SECTIONS
22-26	PROPOSED TYPICAL SECTIONS
27-29	ALIGNMENTS
30-37	ROADWAY PLAN & PROFILE SHEETS
38	ROUNDBOUT CURB ALIGNMENTS PLAN AND PROFILE
39	REMOVAL PLAN
40	TEMPORARY ACCESS PLAN
41-42	TRAFFIC CLOSURE PLAN
43	TRAFFIC CONTROL PLAN
44	LANDSCAPING PLAN
45-50	PERMANENT & TEMPORARY EROSION CONTROL SHEETS
51-58	DRAINAGE PLAN AND PROFILE SHEETS
59-62	SANITARY SEWER AND WATER MAIN IMPROVEMENT SHEETS
63	LIGHTING PLAN
64	ROUNDBOUT ELEVATION SHEET
65	SIDEWALK ELEVATION SHEET
66	ROUNDBOUT JOINT DETAIL SHEET
67	PERMANENT PAVEMENT MARKING SHEETS
68	PERMANENT SIGNAGE SHEET
69	SPECIAL SIGNAGE DETAIL SHEET
70	SIGNAGE REMOVAL
71-72	CONSTRUCTION DETAILS
73	ENTRANCE DETAILS
74-75	IDOT DISTRICT 2 STANDARDS
76-93	CROSS SECTIONS

63A FIELD WIRING DIAGRAM

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FOR INDEX OF DISTRICT TWO STANDARD DETAILS, SEE SHEET NO. 2

UTILITIES

UTILITY TYPE	COMMON NAME	PHONE NO.
WATER & SEWER	CITY OF FREEPORT	815-233-0111
ELECTRIC	COMED	815-490-2335
TELEPHONE	FRONTIER	815-544-6445
GAS	NICOR	815-873-5520
CABLE	COMCAST	866-594-1234



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

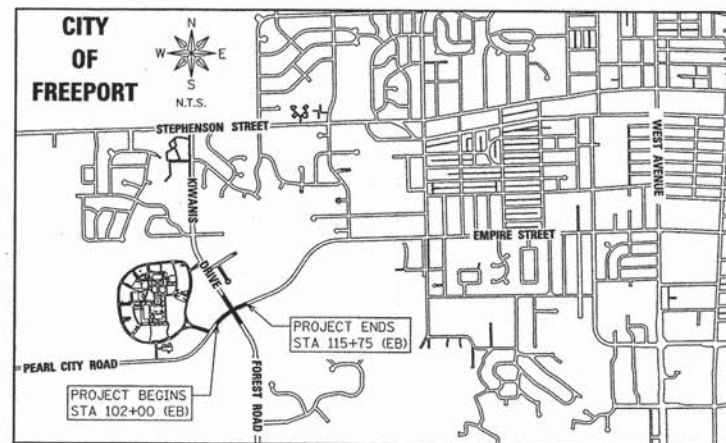
ROUNDBOUT INTERSECTION AT PEARL CITY ROAD AND KIWANIS DRIVE / FOREST ROAD

FOR

CITY OF FREEPORT ILLINOIS

PROPOSED ROUNDBOUT PLANS

FAU 5240 (W. PEARL CITY ROAD)  
SECTION 12-00156-00-FP  
PROJECT M-5024(031)  
STEPHENSON COUNTY  
C-92-062-13  
CONTRACT# 85591



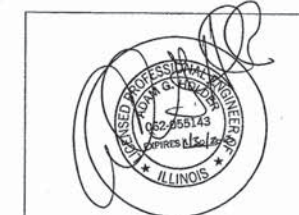
LOCATION MAP

PROJECT LENGTH = 2045 FT  
2013 ADT = 7450 (PEARL CITY ROAD) 1% TRUCK; ARTERIAL  
2013 ADT = 2650 (KIWANIS DRIVE) 1% TRUCK; ARTERIAL  
2013 ADT = 1863 (FOREST ROAD) 1% TRUCK; COLLECTOR  
SPEED LIMIT = < 45 MPH



ILLINOIS IOWA WISCONSIN

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER: 184003525



SHEETS 1 THROUGH 62  
SHEETS 64 THROUGH 93



SHEET 63  
SHEET 63A

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED \_\_\_\_\_  
*Chris P. Furbell* 5-29-2013  
STEPHENSON COUNTY HIGHWAY DEPARTMENT - COUNTY ENGINEER

APPROVED \_\_\_\_\_  
*Shawn M. Ballou* 5-29-2013  
CITY OF FREEPORT - CITY ENGINEER

PASSED May 30, 2013  
*Jim T. Johnson*  
DISTRICT 2 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW  
May 30, 2013  
*Paul A. Loctus*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

REV. NO.	DESCRIPTION	DATE
0	ORIGINAL PLAN SET	01/21/13
1	PRELIMINARY PS&E	03/01/13
2	FINAL PS&E	03/22/13
3	FINAL PS&E	05/10/13
4	FINAL PS&E	05/29/13

IDOT DISTRICT TWO STANDARD DETAILS:

10.2	INLET SPECIAL
12.2	DOUBLE INLET, SPECIAL
13.2A	FRAME AND GRATE FOR INLET SPECIAL
13.2C	FRAME AND GRATE FOR INLET SPECIAL
13.2D	FRAME AND GRATE FOR INLET SPECIAL
17.4A	CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED
40.1	TRAFFIC CONTROL FOR ROAD CLOSURE
41.1	TYPICAL PAVEMENT MARKINGS

IDOT HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
701006-04	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
825011-02	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240 V
830001-01	LIGHT POLE ALUMINUM MAST ARM
836001-02	LIGHT POLE FOUNDATION

**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:

STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:

ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

INDEX OF STANDARDS

G:\mcraston\2012-471\plan set\12-471- 3 Index standards.dgn

JOB NUMBER:

12-471

SHEET NUMBER:

2 of 93

**GENERAL REQUIREMENTS**

1. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN CITY OF FREEPORT OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN CITY OF FREEPORT, STEPHENSON COUNTY, OR THEIR DULY AWARDED AGENT.
2. IN THE FOLLOWING, THE ILLINOIS DEPARTMENT OF TRANSPORTATION WILL BE REFERRED TO AS IDOT.
3. AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF A DISCREPANCY IS DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
4. QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.
5. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, CITY OF FREEPORT, ILLINOIS, CURRENT EDITION, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY IDOT, ADOPTED JANUARY 1, 2012, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISION", ADOPTED JANUARY 1, 2012, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
6. IF CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.
7. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE CITY OF FREEPORT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THESE PLANS MUST BE FOLLOWED BY THE CONTRACTOR. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS, ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES - THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN. EXTREME CAUTION MUST BE EXERCISED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. CONTRACTORS ARE ADVISED THAT ALL MUD AND DEBRIS MUST BE CLEARED FROM ROADWAYS PER THE REQUIREMENTS OF THE CITY OF FREEPORT.
8. THE ENGINEER OR OWNER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
9. ANY AREAS DAMAGED OR DESTROYED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO THAT CONDITION OR BETTER WHICH EXISTED PRIOR TO STARTING CONSTRUCTION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC. DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER" SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COMPLYING WITH ANY AND ALL SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS FOR STORM SEWER, AND STREET CONSTRUCTION AS SET FORTH BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, BY THE CITY OF FREEPORT AND IEPA.
11. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION AND WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
12. THE LOCATION OF PROPERTY LINES IS APPROXIMATE.
13. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT REDUCED SIZE PLANS.
14. THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, SURFACE COURSE, TOP BACK OF CURB OR DITCHES, UNLESS OTHERWISE INDICATED.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.
16. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT-OF-WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.
17. THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
18. THE CONTRACTOR SHALL REMOVE AND GIVE ALL EXISTING SIGNAGE TO THE CITY OF FREEPORT FOR STORAGE.
19. PROTECTIVE COAT SHALL BE APPLIED TO ALL COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED BETWEEN OCTOBER 15 AND APRIL 15 PER ARTICLE 420.18 OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. THE COST OF THE PROTECTIVE COATING SHALL BE CONSIDERED AS INCIDENTAL TO THE ITEM TO WHICH IT IS APPLIED.
20. ALL CURB AND GUTTER ADJACENT TO HMA PAVEMENT SHALL HAVE SAWED CONTRACTION JOINTS PLACED AT 25'-0" MAX. CTS (TYP.) ALL CURB AND GUTTER ADJACENT TO CONCRETE PAVEMENT SHALL HAVE SAWED CONTRACTION JOINTS PLACED IN PROLONGATION WITH THE CONCRETE PAVEMENT AND AT 15'-0" MAX. CTS (TYP.) COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT ITEM FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24, B6.18, M3.24, AND B6.12.
21. ALL CONSTRUCTION AND CONTRACTION JOINTS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 420.12 AND SHALL BE CONSIDERED INCIDENTAL.

**GENERAL NOTES: EXCAVATION/EARTHWORK**

1. PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE CONSTRUCTION LIMITS OF TOPSOIL TO A DEPTH AND THE LIMITS APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE STOCKPILED IN A REMOTE LOCATION OF THE SITE (APPROVED BY THE ENGINEER) UNTIL THE PLAN IMPROVEMENTS ARE COMPLETED AND THE EXCESS MATERIAL SPREAD AS DIRECTED. THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE RIGHT-OF-WAY, OVER AREAS WHERE EXCESS EXCAVATED MATERIAL, SAND, GRAVEL HAS BEEN SPREAD OR IN OTHER AREAS AS DESIGNATED BY THE ENGINEER. THE MATERIAL SHALL THEN BE COMPACTED TO A MINIMAL DEPTH OF 4" AND FINE GRADED IN A MANNER THAT SUPPORTS VEGETATION AND THAT IS ACCEPTABLE TO THE ENGINEER. COST OF THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
2. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO SECTION 440 OF THE IDOT STANDARD SPECIFICATIONS. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE-SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAW CUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE SPECIFIC REMOVAL ITEMS.
5. EMBANKMENT WORK SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENTS BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE IN ACCORDANCE WITH SECTIONS 202 AND 205 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. ALL EXCESS EARTH EXCAVATION IS TO BE DISPOSED OF BY CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
7. A UNIFORM GRADE SHALL BE MAINTAINED BETWEEN PROPOSED ELEVATION AND CONTOURS.
8. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.
9. PRIOR TO ANY EMBANKMENT BEING PLACED, SHOULD IT BE DETERMINED BY THE ENGINEER THAT THE SUBGRADE MATERIAL IS UNSUITABLE ON WHICH TO CONSTRUCT THE ROADWAY STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACING SAME WITH STABILIZING SUBBASE CONSISTING OF SUBBASE GRANULAR MATERIAL, TYPE B (CA-2) IN ACCORDANCE WITH IDOT STANDARDS AND SPECIFICATIONS. THE COURSE AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR SUBBASE GRANULAR MATERIAL, TYPE B (CA-2). THE EXCAVATION AND DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE CONSIDERED INCIDENTAL TO SUBBASE GRANULAR MATERIAL, TYPE B (CA-2).
10. THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE, IN THE PRESENCE OF THE ENGINEER OR HIS AGENT TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS SO THAT A REPRESENTATIVE MAY BE PRESENT.

**GENERAL NOTES: EROSION CONTROL & SEEDING**

1. FABRIC FILTER FENCES OR STRAW BALES SHALL BE PLACED AROUND ANY SOIL STOCK PILE WITH MORE THAN 10 CUBIC YARDS OF MATERIAL.
2. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY DEBRIS IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS DEBRIS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
3. ALL ADJACENT LOCAL ROADS SHALL BE KEPT CLEAN OF DEBRIS, MUD, SOIL, AND/OR GRAVEL DEPOSITED ON SAID ROADWAYS DUE DIRECTLY TO THE FILLING AND/OR GRADING ACTIVITIES AS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO THE CLEAN UP OPERATIONS. DURING CONSTRUCTION OPERATIONS, ANY DEBRIS DEPOSITED ON THE STREETS OR HIGHWAYS SHALL BE IMMEDIATELY REMOVED. ADJACENT ROADWAYS SHALL BE INSPECTED DAILY.
4. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP OR CLEAN (NOT FLUSH) ANY CONSTRUCTION SOIL MATERIAL FROM THE STREET TO PREVENT TRACKING. THE ENGINEER SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF CONTRACTOR'S EROSION CONTROL EFFORTS. OWNER SHALL HAVE FULL AUTHORITY TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.
5. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS - "THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT AND PROPER DISPOSAL OF ALL EXCESS SOIL AND SUBSURFACE MATERIALS THAT ARE NOT ABLE TO BE RE-USED ON THE PROJECT SITE AS SUITABLE CLEAN FILL. CONTRACTOR RESPONSIBILITIES SHALL INCLUDE ALL REQUIRED SOIL SAMPLING, LABORATORY ANALYSIS, DISPOSAL PROFILING FEES, TRANSPORTATION, AND DISPOSAL TIPPING FEES AND SURCHARGES.
6. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE CITY ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUIRED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
7. THE CONTRACTOR SHALL SEED AND PLACE EROSION CONTROL BLANKET ON ALL DISTURBED AREAS IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION.
8. DISTURBED AREAS OR LOCATIONS WHERE THE CONTRACTOR'S OPERATIONS HAVE DAMAGED EXISTING GROUND COVER AND/OR TOPSOIL OUTSIDE OF THE LIMITS OF THE TOPSOIL SHALL FURNISH AND PLACE 4" TOPSOIL.
9. THE FINAL TOP 4 INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
10. FERTILIZER HAVING AN ANALYSIS OF 10-10-10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
GENERAL NOTES

G:\crastruction\2012\12-471\plan set\12-471 - 2 gennote.dgn

JOB NUMBER:  
12-471

SHEET NUMBER:  
3 of 93

**GENERAL NOTES: UTILITIES**

1. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY AT AN APPROVED LOCATION OBTAINED BY THE CONTRACTOR, ACCORDING TO ARTICLE 202.03 OF THE IDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 (or 811) FOR EXACT FIELD LOCATION OF UTILITIES. DAMAGE AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
3. IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
4. THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
5. THE CONTRACTOR IS REQUIRED TO PROTECT THE VARIOUS BURIED UTILITIES THAT ARE CROSSED (I.E., SANITARY, STORM, GAS, TELEPHONE, ELECTRIC) DURING CONSTRUCTION. ANY DAMAGE THAT OCCURS TO THE VARIOUS BURIED UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. ANY DAMAGE, DIRECT OR INDIRECT, TO EXISTING AREA STRUCTURES, UTILITIES, PAVEMENTS, ETC. AND NOT CALLED OUT SPECIFICALLY IN THE PLANS AS BEING WITHIN THE PROJECT SHALL BE REPAIRED OR REPLACED WITH EQUALS BY CONTRACTOR WITHOUT COST TO THE OWNER.
7. ALL STORM SEWER METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" AND THE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF FREEPORT.
8. ALL REINFORCED CONCRETE CEMENT PIPE (RCP) SHALL BE STATE APPROVED IN ACCORDANCE WITH ASTM C76 CLASS SPECIFIED WALL WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-433 OR ASTM 76, FLAT GASKET CONFORMING TO ASTM C-433. THESE PIPE AND JOINT SPECIFICATIONS MEET THE REQUIREMENTS OF WATER MAIN EQUIVALENT PIPE.
9. ALL STORM SEWER LATERALS AND MAINLINES SHALL BE CONNECTED AND APPROVED BY THE ENGINEER.
10. ALL CONNECTIONS TO EXISTING OR PROPOSED STORM SEWERS SHALL BE DONE BY MEANS OF CORE-DRILLING. THE COST ASSOCIATED WITH SUCH REPAIR WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
11. ALL STORM SEWER LATERALS AND MAINLINES SHALL BE CONNECTED AND APPROVED BY THE ENGINEER.
12. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. COST IS INCIDENTAL TO CONTRACT.
13. THE EXISTING EXCAVATED MATERIAL MAY BE USED AS BACKFILL TO WITHIN 2' HORIZONTALLY OF ALL EXISTING AND PROPOSED PAVED AREAS ALONG WATER MAIN, WATER SERVICE LINES, TILES, CULVERTS, STORM SEWERS, SANITARY SEWERS, AND SEWER SERVICES.
14. TRENCH BACKFILL SHALL BE USED IN LOCATIONS WHERE THERE IS EXISTING OR PROPOSED PAVEMENT. THE PAVEMENT AND BASE SHALL BE REPLACED WITH THE SAME TYPE AND SPECIFICATIONS USED FOR THE EXISTING OR PROPOSED PAVEMENT. THE COST OF AGGREGATE BASE COURSE AND PAVEMENT REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH AS SPECIFIED. TRENCH BACKFILL SHALL BE CA-6 IN ACCORDANCE WITH IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION. THE COST OF TRENCH BACKFILL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
15. CONTRACTOR SHALL FURNISH ALL PIPE BEDDING AS PER SECTION 20-2.20, 2.21 OF "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF THE WATER AND SEWER MAIN PIPE.
16. STRUCTURAL FILL AROUND MANHOLE STRUCTURES SHALL BE AGGREGATE TYPE CA-6 AND SHALL BE MECHANICALLY COMPACTED IN 12 INCH LIFTS. COST SHALL BE INCIDENTAL TO THE MANHOLE.
17. SHEETING AND SHORING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
18. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATION PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

**GENERAL NOTES: TRAFFIC CONTROL AND PROTECTION**

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TRAFFIC CONTROL ITEMS NECESSARY FOR THE CONSTRUCTION OF ITEMS WITHIN THE ROAD RIGHT-OF-WAY AND PROTECTION OF OPEN AREAS. ALL WORK PERFORMED SHALL HAVE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THIS WORK SHALL BE PAID FOR AS LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION SPECIAL.
2. THE CONTRACTOR SHALL NOTIFY THE FREEPORT PUBLIC WORKS DEPARTMENT, LOCAL FIRE AND POLICE DEPARTMENTS, FREEPORT SCHOOL DISTRICT, AND ADJACENT PROPERTY OWNERS A MINIMUM OF 5 DAYS PRIOR TO CLOSING ANY PORTION OF ADJACENT STREETS.
3. TRAFFIC CONTROL DEVICES, STREET NAME SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FREEPORT STANDARDS AND SPECIFICATION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. LOCATIONS OF SIGNS AND MARKINGS SHALL BE SPECIFIED BY THE PLANS, AND/OR DIRECTED BY THE ENGINEER.
4. ACCESS TO ALL BUSINESSES AND RESIDENTIAL HOMES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE PROJECT. IF A RESIDENCE IS NOT GOING TO BE ABLE TO HAVE ACCESS FOR ANY REASON, THE RESIDENCE WILL BE NOTIFIED 24 HOURS IN ADVANCE OF THIS INCONVENIENCE. THIS INCONVENIENCE SHALL NOT LAST MORE THAN 2 CONSECUTIVE DAYS.
5. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. THIS IS TO BE INCLUDED IN THE LUMP SUM PAYMENT FOR TRAFFIC CONTROL AND PROTECTION SPECIAL.
6. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN CONDITIONS MAY REQUIRE THE ENGINEER TO MODIFY THE LOCATION OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER OR OWNER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE. COST IS INCIDENTAL TO CONTRACT.

STRUCTURAL DESIGN TRAFFIC:	Year: 2023
PV = 85%	SU = 64%      MU = 93%
ROAD/STREET CLASSIFICATION:	Class II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANES:	
P = 50%	S = 50%      M = 50%
TRAFFIC FACTOR:	Actual TF = 1.0      AC TYPE = PG 64-22
	Minimum TF = NONE
PG GRADE:	Binder = SBS-PG 70-28      Surface = SBS-PG 70-28
SUBGRADE SUPPORT RATING:	
SSR = Poor (Sta. 102+00 EB to 15+75 EB)	
SSR = Poor (Sta. 302+00 NB to 30+30 NB)	

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
GENERAL NOTES

Job Number: 12-471

SHEET NUMBER:  
4 of 93

GeneralStation\2012\12-471\plan set\12-471-2 gennote.dgn

**SUMMARY OF QUANTITIES**

CONSTRUCTION TYPE CODE: 0004

S.P.	SPECIALTY ITEM	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PARTICIPATING	NON PARTICIPATING
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	56	56	
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40	40	
		20101100	TREE TRUNK PROTECTION	EACH	1	1	
		20200100	EARTH EXCAVATION	CU YD	5181	5181	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	434	434	
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8324	8324	
		25000110	SEEDING, CLASS 1A	ACRE	1.53	1.53	
		25000115	SEEDING, CLASS 1B	ACRE	0.24	0	
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	159	159	
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	159	159	
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	159	159	
		25100630	EROSION CONTROL BLANKET	SQ YD	8324	8324	
		28000305	TEMPORARY DITCH CHECKS	FOOT	87	87	
		28000400	PERIMETER EROSION BARRIER	FOOT	3658	3658	
		28000500	INLET AND PIPE PROTECTION	EACH	23	23	
		28100103	STONE RIPRAP, CLASS A2	SQ YD	39	39	
		28200200	FILTER FABRIC	SQ YD	39	39	
		31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	4201	4201	
		35101600	AGGREGATE BASE, TYPE B, 4-INCH	SQ YD	1129	1129	
		35101800	AGGREGATE BASE, TYPE B, 6-INCH	SQ YD	735	735	
		40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4129	4129	
		40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2758	2758	
		40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	TON	967	967	
		42000301	PORTLAND CEMENT CONCRETE PAVEMENT, 8-INCH (JOINTED)	SQ YD	1573	1573	
		42001300	PROTECTIVE COAT	SQ YD	2956	2956	
		42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4-INCH	SQ FT	2593	2593	
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5-INCH	SQ FT	7124	7124	
		42400800	DETECTABLE WARNINGS	SQ FT	320	320	
		44000100	PAVEMENT REMOVAL	SQ YD	10467	10467	
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	883	883	
		44003100	MEDIAN REMOVAL	SQ FT	747	747	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3450	3450	
		48100500	AGGREGATE SHOULDERS, TYPE A, 6-INCH	SQ YD	209	209	
		50105220	PIPE CULVERT REMOVAL	FOOT	280	280	

**SUMMARY OF QUANTITIES-CONTINUED**

CONSTRUCTION TYPE CODE: 0004

S.P.	SPECIALTY ITEM	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PARTICIPATING	NON PARTICIPATING
		54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION, 18-INCH	EACH	1	1	
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTION, 24-INCH	EACH	3	3	
		54214503	PRECAST REINFORCED CONCRETE FLARED END SECTION, EQUIVALENT ROUND SIZE, 18-INCH	EACH	2	2	
		550A0050	STORM SEWERS, CLASS A, TYPE 1, 12-INCH	FOOT	991	991	
		550A0070	STORM SEWERS, CLASS A, TYPE 1, 15-INCH	FOOT	152	152	
		550A0090	STORM SEWERS, CLASS A, TYPE 1, 18-INCH	FOOT	122	122	
		550A0120	STORM SEWERS, CLASS A, TYPE 1, 24-INCH	FOOT	119	119	
		550A4000	STORM SEWERS, CLASS A, TYPE 1, EQUIVALENT ROUND SIZE, 18-INCH	FOOT	56	56	
		550B0410	STORM SEWERS, CLASS B, TYPE 2, 24-INCH	FOOT	65	65	
	+	56100055	DUCTILE IRON WATER MAIN TEE, 12"X8"	EACH	1		1
	+	56100065	DUCTILE IRON WATER MAIN TEE, 12"X12"	EACH	2		2
	+	56103100	DUCTILE IRON WATER MAIN, 8-INCH	FOOT	80		80
	+	56103300	DUCTILE IRON WATER MAIN, 12-INCH	FOOT	743		743
	+	56105000	WATER VALVE, 8-INCH	EACH	1		1
	+	56105200	WATER VALVE, 12-INCH	EACH	5		5
	+	56108500	ADJUSTING WATER VALVES, 12-INCH	EACH	1		1
	+	56109404	DUCTILE IRON WATER MAIN FITTINGS, 12", 11.25 DEGREE BEND	EACH	1		1
	+	56109424	DUCTILE IRON WATER MAIN FITTINGS, 12", 45 DEGREE BEND	EACH	9		9
	+	56400500	FIRE HYDRANT TO BE REMOVED	EACH	3		3
	+	56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	2		2
	*	60108200	PIPE UNDERDRAINS, 6-INCH (SPECIAL)	FOOT	300		300
		60218400	MANHOLE, TYPE A, 4-FT DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		3
		60255500	MANHOLE TO BE ADJUSTED	EACH	3		3
		60260100	INLET TO BE ADJUSTED	EACH	2		2
		60500060	REMOVING INLETS	EACH	6		6
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12	FOOT	229		229
		60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18	FOOT	473		473
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24	FOOT	5061		5061
	*	X6061815	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)	FOOT	305		305
		60618300	CONCRETE MEDIAN SURFACE, 4-INCH	SQ FT	7065		7065
		60624600	CORRUGATED MEDIAN	SQ FT	2137		2137
		67100100	MOBILIZATION	L SUM	1		1
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	100		100
		72000100	SIGN PANEL, TYPE 1	SQ FT	179		179

**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 04-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:

STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:

ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

SUMMARY OF QUANTITIES

G:\mlaroc\station\2012\12-471\plan\ee1\12-471-4.swg.dgn

JOB NUMBER:

12-471

SHEET NUMBER:

5 of 93

**SUMMARY OF QUANTITIES-CONTINUED**

CONSTRUCTION TYPE CODE: 0004

S.P.	SPECIALTY ITEM	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	PARTICIPATING	NON PARTICIPATING
		72000200	SIGN PANEL, TYPE 2	SQ FT	60	60	
		72400310	REMOVE SIGN PANEL, TYPE 1	SQ FT	172	172	
		72700200	TUBULAR STEEL SIGN SUPPORT - BREAKAWAY	POUNDS	1488	1488	
		72900200	METAL POST, TYPE B	FOOT	496	496	
	+	78003100	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, LETTERS & SYMBOLS	SQ FT	161	161	
	+	78003140	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, LINE - 8"	FOOT	209	209	
	+	78003150	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, LINE - 12"	FOOT	480	480	
	+	78003160	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, LINE - 16"	FOOT	72	72	
	+	78004200	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, INLAID, LETTERS & SYMBOLS	SQ FT	113	113	
	+	78004210	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, INLAID, LINE - 4"	FOOT	4740	4740	
	+	78004240	PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B, INLAID, LINE - 8"	FOOT	251	251	
	+	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
	+	81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	35	35	
	+	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	305	305	
	+	81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1715	1715	
	+	81702417	CABLE IN CONDUIT, 600V, (XLP-TYPE USE), 3-1C NO. 6, 1/C NO. 6 GROUND	FOOT	40	40	
	+	82102150	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150 WATT	EACH	14	14	
	+	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V, 60A	EACH	1	1	
	+	83006500	LIGHT POLE, ALUMINUM, 30FT M.H., 12 FT MAST ARM	EACH	14	14	
	+	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	70	70	
	*	X4200501	PORTLAND CEMENT CONCRETE PAVEMENT, 10-INCH (JOINTED) SPECIAL	SQ YD	311	311	
	+	X5610680	WATER MAIN PROTECTION	FOOT	100		100
	+	X5610752	WATER MAIN LINE STOP, 12"	EACH	1		1
	+	X5630708	CONNECTION TO EXISTING WATER MAIN, 8-INCH	EACH	1		1
	+	X5630712	CONNECTION TO EXISTING WATER MAIN, 12-INCH	EACH	4		4
		X6024210	DOUBLE INLET, SPECIAL	EACH	7	7	
		X6024240	INLETS, SPECIAL	EACH	12	12	
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
	*	XX006752	REMOVE, STORE AND RE-INSTALL EXISTING MONUMENT	L SUM	1	1	
	+	XX008839	WATER MAIN TO BE ABANDONED	L SUM	1		1
	*	XX006821	CONCRETE TRUCK WASHOUT	L SUM	1	1	
			CONSTRUCTION TYPE CODE: 0042				
	*	Z0076600	TRAINEES	HOUR	500	500	
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

REVISIONS		
REV. NO.	DESCRIPTION	DATE

INDEX OF SCHEDULES		
SCHEDULE NO.	TITLE	SHEET NO.
1	TREE MAINTENANCE AND REMOVAL	7
2	EARTHWORK SUMMARY	8
3	SEEDING AND RESTORATION	9
4	TEMPORARY EROSION CONTROL ITEMS	9
5	STONE RIPRAP	10
6	AGGREGATE SUBBASE	10
7	AGGREGATE BASE	10
8	BITUMINOUS MATERIALS (PRIME COAT)	11
9	HOT-MIX ASPHALT PAVEMENT	11
10	PORTLAND CEMENT CONCRETE PAVEMENT	11
11	PATHS	12
12	PAVEMENT REMOVAL	12
13	CURB AND GUTTER REMOVAL	12
14	AGGREGATE SHOULDERS	13
15	STORM SEWER REMOVAL	13
16	STRUCTURES	13
17	STORM PIPE AND PIPE UNDERDRAINS	14
18	WATER MAIN	14
19	WATER MAIN APPURTENANCES	15
20	COMBINATION CURB AND GUTTER	16
21	SIGNS	17
22	REMOVE SIGN PANEL AND SIGN PANEL ASSEMBLY	18
23	PAVEMENT MARKINGS	19
24	LIGHTING	20

1 SCHEDULE OF TREE MAINTENANCE AND REMOVAL				
STATION	OFFSET	TREE REMOVAL	TREE REMOVAL	TREE TRUNK
		(6 TO 15 UNITS DIAMETER) (UNIT) 20100110	(OVER 15 UNITS DIAMETER) (UNIT) 20100210	PROTECTION (EACH) 20101100
<b>PEARL CITY RD</b>				
111+20 EB	RT	6		
112+30 EB	RT	6		
112+80 EB	RT	6		
<b>KIWANIS DR</b>				
307+88 NB	RT	14		
308+50 NB	RT	14		
308+75 NB	RT	10		
309+21 NB	RT		24	
407+81 SB	LT		16	
408+53 SB	LT			1
<b>TOTAL</b>		<b>56</b>	<b>40</b>	<b>1</b>

REVISIONS		
REV. NO.	DESCRIPTION	DATE

2		EARTHWORK SUMMARY					
FROM STATION	TO STATION	TOTAL EXCAVATION (CUT)	REMOVAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (ADJUSTED CUT)	EMBANKMENT (FILL)	BALANCE WASTE(+) SHORTAGE(-)
<b>PEARL CITY RD -EB</b>							
102+00	102+50	50	0	50	42	1	49
102+50	103+00	46	0	46	39	3	43
103+00	103+50	43	0	43	37	6	37
103+50	104+00	44	0	44	38	6	39
104+00	104+18.19	21	0	21	18	1	20
104+18.19	104+50	36	0	36	31	2	34
104+50	105+00	41	0	41	35	8	34
105+00	105+50	41	0	41	35	8	33
105+50	106+00	47	0	47	40	7	40
106+00	106+50	51	0	51	43	4	47
106+50	107+00	56	0	56	47	3	52
107+00	107+50	56	0	56	48	3	54
107+50	108+00	52	0	52	44	7	45
108+00	108+50	44	0	44	38	18	26
108+50	108+98.20	31	0	31	26	25	6
110+35.12	110+50	1	0	1	1	51	-50
110+50	111+00	5	0	5	4	196	-191
111+00	111+50	13	0	13	11	157	-144
111+50	112+00	37	0	37	32	126	-88
112+00	112+50	63	0	63	53	88	-25
112+50	113+00	72	0	72	61	71	1
113+00	113+50	71	0	71	61	36	35
113+50	114+00	55	0	55	47	1	53
114+00	114+50	34	0	34	29	3	30
114+50	114+61.00	7	0	7	6	12	-5
114+61.00	115+00	37	20	17	14	44	-27
115+00	115+06.92	17	10	7	6	4	2
115+06.92	115+46.33	98	66	32	27	10	22
115+46.33	115+50	9	8	1	1	0	1
115+50	115+75	69	59	11	9	2	9
<b>PEARL CITY RD -WB</b>							
202+00	202+50	61	0	61	52	5	57
202+50	203+00	93	0	93	79	0	93
203+00	203+50	138	0	138	117	0	138
203+50	204+00	168	0	168	143	0	168
204+00	204+50	179	0	179	152	0	179
204+50	205+00	195	0	195	165	0	195
205+00	205+50	225	0	225	192	0	225
205+50	206+00	244	0	244	207	0	244
206+00	206+50	222	0	222	189	0	222
206+50	207+00	187	0	187	159	0	187
207+00	207+50	179	0	179	152	0	179
207+50	208+00	176	0	176	150	1	175
208+00	208+50	151	0	151	128	7	143
208+50	209+00	125	0	125	106	20	105
209+00	209+08.66	19	0	19	17	5	14
210+34.89	210+50	15	0	15	13	0	15
210+50	211+00	39	0	39	33	2	36
211+00	211+50	53	0	53	45	1	52
211+50	212+00	71	0	71	60	1	70
212+00	212+50	67	0	67	57	4	64
212+50	213+00	61	0	61	51	9	51
213+00	213+50	46	0	46	39	24	21
213+50	214+00	33	0	33	28	37	-4
214+00	214+50	29	0	29	25	39	-10
214+50	215+00	28	0	28	24	40	-12
<b>SUBTOTAL</b>		<b>4052</b>	<b>163</b>	<b>3889</b>	<b>3306</b>	<b>1100</b>	<b>2788</b>

2		EARTHWORK SUMMARY					
FROM STATION	TO STATION	TOTAL EXCAVATION (CUT)	REMOVAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (ADJUSTED CUT)	EMBANKMENT (FILL)	BALANCE WASTE(+) SHORTAGE(-)
<b>FOREST RD-NB</b>							
302+25	302+46.71	33	0	33	28	9	24
302+46.71	302+50	2	0	2	2	0	2
302+50	303+00	46	0	46	39	18	28
303+00	303+50	61	0	61	52	14	48
303+50	303+57.27	11	0	11	9	0	11
303+57.27	304+00	55	0	55	47	33	22
304+00	304+50	51	0	51	43	85	-34
304+50	305+00	44	0	44	38	92	-48
305+00	305+50	25	0	25	21	85	-60
305+50	306+00	13	0	13	11	123	-110
306+00	306+19.9	6	0	6	5	64	-58
<b>FOREST RD-SB</b>							
402+46.71	402+50	2	0	2	2	1	1
402+50	403+00	36	0	36	31	12	24
403+00	403+50	41	0	41	35	4	37
403+50	403+53.92	4	0	4	3	0	4
403+53.92	404+00	33	0	33	28	22	12
404+00	404+50	16	0	16	14	40	-23
404+50	405+00	6	0	6	5	26	-20
405+00	405+50	7	0	7	6	18	-11
405+50	406+00	23	0	23	20	12	11
406+00	406+25.17	14	0	14	12	5	9
<b>KIWANIS DR-NB</b>							
307+54.79	308+00	21	0	21	18	91	-69
308+00	308+50	8	0	8	7	161	-152
308+50	309+00	3	0	3	2	142	-139
309+00	309+42.42	19	0	19	16	60	-42
309+42.42	309+50	9	0	9	8	8	1
309+50	310+00	73	0	73	62	32	41
310+00	310+30	55	0	55	47	5	50
<b>KIWANIS DR-SB</b>							
407+61.92	408+00	52	0	52	44	8	44
408+00	408+50	25	0	25	21	24	1
408+50	409+00	10	0	10	9	30	-19
409+00	409+42.42	15	0	15	13	17	-2
<b>ROUNDAABOUT</b>							
50+00	50+50	1	0	1	1	365	-364
50+50	51+00	0	0	0	0	384	-384
51+00	51+50	0	0	0	0	356	-356
51+50	52+00	40	0	40	34	289	-249
52+00	52+50	105	0	105	89	223	-118
52+50	53+00	127	0	127	108	210	-83
53+00	53+50	128	0	128	109	221	-93
53+50	54+00	68	0	68	58	256	-188
54+00	54+42.95	3	0	3	3	267	-264
<b>SUBTOTAL</b>		<b>1293</b>	<b>0</b>	<b>1293</b>	<b>1099</b>	<b>3810</b>	<b>-2518</b>

EARTHWORK SUMMARY TABLE			
20200100	EARTH EXCAVATION	5181	CY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	434	CY

REVISIONS		
REV. NO.	DESCRIPTION	DATE



3 SCHEDULE OF SEEDING AND RESTORATION										
FROM STATION	TO STATION	OFFSET	DESCRIPTION	TOPSOIL FURNISH AND PLACE, 4-INCH (SQ YD) 21101615	SEEDING, CLASS 1A (ACRE) 25000110	SEEDING, CLASS 1B (ACRE) 25000115	NITROGEN FERTILIZER NUTRIENT (POUND) 25000400	PHOSPHORUS FERTILIZER NUTRIENT (POUND) 25000500	POTASSIUM FERTILIZER NUTRIENT (POUND) 25000600	EROSION CONTROL BLANKET (SQ YD) 25100630
<b>PEARL CITY RD</b>										
102+00 EB	104+04 EB	RT	EMBANKMENT	166	0.03		3	3	3	166
104+35 EB	109+01 EB	RT	EMBANKMENT	304	0.06		5	5	5	304
104+44 EB	108+12 EB	RT	PARKWAY	176	0.04		4	4	4	176
108+14 EB	108+69 EB	RT	PARKWAY	25	0.01		1	1	1	25
108+79 EB	109+11 EB	RT	PARKWAY	23	0.01		1	1	1	23
110+21 EB	110+56 EB	RT	PARKWAY	27	0.01		1	1	1	27
110+30 EB	115+75 EB	RT	EMBANKMENT	904	0.19		17	17	17	904
110+66 EB	111+06 EB	RT	PARKWAY	20	0.01		1	1	1	20
113+13 EB	114+88 EB	RT	TEMPORARY DRIVE	1142		0.24	22	22	22	1142
202+00 WB	203+08 WB	LT	EMBANKMENT	115	0.02		2	2	2	115
203+78 WB	209+15 WB	LT	EMBANKMENT	1006	0.21		19	19	19	1006
208+39 WB	208+74 WB	LT	PARKWAY	25	0.01		1	1	1	25
208+82 WB	209+25 WB	LT	PARKWAY	38	0.01		1	1	1	38
210+23 WB	210+54 WB	LT	PARKWAY	23	0.01		1	1	1	23
210+34 WB	215+25 WB	LT	EMBANKMENT	1209	0.25		23	23	23	1209
210+66 WB	211+14 WB	LT	PARKWAY	27	0.01		1	1	1	27
<b>FOREST RD</b>										
302+50 NB	303+39 NB	RT	EMBANKMENT	165	0.03		3	3	3	165
303+75 NB	306+25 NB	RT	EMBANKMENT	721	0.15		14	14	14	721
305+42 NB	305+88 NB	RT	PARKWAY	22	0.01		1	1	1	22
306+02 NB	306+34 NB	RT	PARKWAY	23	0.01		1	1	1	23
402+13 SB	403+33 SB	LT	EMBANKMENT	115	0.02		2	2	2	115
403+71 SB	406+29 SB	LT	EMBANKMENT	196	0.04		4	4	4	196
403+81 SB	405+35 SB	LT	PARKWAY	72	0.01		1	1	1	72
405+37 SB	405+91 SB	LT	PARKWAY	28	0.01		1	1	1	28
406+01 SB	406+39 SB	LT	PARKWAY	32	0.01		1	1	1	32
<b>KIWANIS DR</b>										
307+39 NB	307+80 NB	RT	PARKWAY	31	0.01		1	1	1	31
307+79 NB	310+30 NB	RT	EMBANKMENT	716	0.15		14	14	14	716
407+49 SB	407+81 SB	LT	PARKWAY	23	0.01		1	1	1	23
407+60 SB	410+30 SB	LT	EMBANKMENT	500	0.10		9	9	9	500
<b>ROUNDABOUT</b>										
50+00 RND	54+42 RND	LT	CENTER	450	0.09		8	8	8	450
<b>TOTAL</b>				<b>8324</b>	<b>1.53</b>	<b>0.24</b>	<b>159</b>	<b>159</b>	<b>159</b>	<b>8324</b>

4 SCHEDULE OF TEMPORARY EROSION CONTROL ITEMS						
FROM STATION	TO STATION	OFFSET (FT)	TEMPORARY DITCH CHECKS (FEET) 28000305	PERIMETER EROSION BARRIER (FEET) 28000400	INLET AND PIPE PROTECTION (EACH) 28000500	
<b>PEARL CITY RD</b>						
101+78 EB	103+97 EB	-- RT		245		
102+25 EB	--	40.0 RT	15			
102+65 EB	--	14.6 RT			1	
104+05 EB	--	36.0 RT			1	
104+37 EB	406+00 NB	-- RT		475		
104+36 EB	--	35.7 RT			1	
104+65 EB	--	18.6 RT			1	
108+00 EB	--	20.2 RT			1	
108+90 EB	--	21.1 RT			1	
110+57 EB	113+30 EB	-- RT		590		
111+50 EB	--	43.0 RT	9			
112+50 EB	--	45.0 RT	9			
113+08 EB	--	18.6 RT			1	
113+30 EB	114+10 EB	-- RT		103		
113+30 EB	115+00 EB	-- RT		420		
113+50 EB	--	48.0 RT	9			
114+34 EB	--	50.0 RT			1	
114+90 EB	--	102.0 RT	9			
201+75 WB	203+05 WB	-- LT		160		
202+58 WB	--	26.6 LT			1	
203+80 WB	204+25 WB	-- LT		55		
204+24 WB	--	31.6 LT			1	
207+00 WB	408+00 SB	-- LT		245		
208+00 WB	--	21.2 LT			1	
208+70 WB	--	18.7 LT			1	
210+25 WB	215+20 WB	-- LT		515		
213+03 WB	--	18.6 LT			1	
215+23 WB	--	28.6 LT			1	
<b>FOREST RD</b>						
302+00 NB	--	28.6 LT	9			
302+57 NB	--	30.0 RT			1	
302+90 NB	--	32.0 RT	9			
303+85 NB	110+57 EB	-- RT		245		
304+00 NB	--	18.6 RT			1	
304+50 NB	--	39.0 RT	9			
305+00 NB	--	18.8 RT			1	
305+50 NB	--	49.0 RT	9			
404+00 SB	--	18.8 LT			1	
405+00 SB	--	20.4 LT			1	
<b>KIWANIS DR</b>						
308+00 NB	310+50 NB	-- RT		345		
309+95 NB	--	24.6 RT			1	
309+95 NB	--	23.1 LT			1	
408+00 SB	410+50 SB	-- LT		260		
<b>ROUNDABOUT</b>						
51+65 RND	--	22.6 LT			1	
51+65 RND	--	2.6 RT			1	
<b>TOTAL</b>			<b>87</b>	<b>3658</b>	<b>23</b>	

REVISIONS		
REV. NO.	DESCRIPTION	DATE

5 SCHEDULE OF STONE RIPRAP						
FROM STATION	TO STATION	OFFSET	AVERAGE WIDTH (FT)	LENGTH (FT)	STONE RIPRAP, CLASS A2 (SQ YD) 28100103	FILTER FABRIC (SQ YD) 28200200
<b>PEARL CITY RD</b>						
113+17 EB	113+34 EB	RT	6.8	20	15.1	15.1
<b>FOREST RD</b>						
303+10 NB	303+29 NB	RT	6	19	12.7	12.7
303+87 NB	303+97 NB	RT	6.7	15	11.2	11.2
<b>TOTAL</b>					<b>39</b>	<b>39</b>

6 SCHEDULE OF AGGREGATE SUBBASE					
FROM STATION	TO STATION	OFFSET	SUBBASE GRANULAR MATERIAL TYPE B, (CA2) (CU YD) 31101100	SUBBASE GRANULAR MATERIAL TYPE B, (CA6) (CU YD) 31101100	COMMENT
<b>PEARL CITY RD</b>					
102+00 EB	108+67 EB	LT/RT	144.6	456.1	
103+91 EB	104+49 EB	RT	31.9	3.8	DRIVEWAY
108+67 EB	109+15 EB	LT/RT	8.4	25.9	
110+16 EB	110+66 EB	LT/RT	9.6	29.5	
110+66 EB	115+75 EB	LT/RT	107.6	318.9	
113+13 EB	115+02 EB	RT	132.4		TEMPORARY DRIVE
202+00 WB	208+72 WB	LT/RT	165.8	517.6	
202+81 WB	204+10 WB	LT	112.6	8.5	DRIVEWAY
208+72 WB	209+29 WB	LT/RT	10.5	32.4	
210+18 WB	210+66 WB	LT/RT	8.3	25.7	
210+66 WB	215+75 WB	LT/RT	92.3	294.0	
215+21 WB	215+75 WB	LT	23.9	3.0	DRIVEWAY
<b>FOREST RD</b>					
302+25 NB	305+90 NB	LT/RT	76.2	225.3	
303+25 NB	303+88 NB	RT	45.8	4.2	DRIVEWAY
305+90 NB	306+38 NB	LT/RT	8.3	25.8	
402+25 SB	405+91 SB	LT/RT	68.4	207.1	
403+25 SB	403+85 SB	LT	17.9	3.9	DRIVEWAY
405+91 SB	406+44 SB	LT/RT	10.3	31.7	
<b>KIWANIS DR</b>					
307+34 NB	307+90 NB	LT/RT	10.5	32.5	
307+90 NB	310+30 NB	LT/RT	51.5	163.3	
403+45 SB	407+94 SB	LT/RT	8.7	26.8	
407+92 SB	410+30 SB	LT/RT	42.9	137.4	
<b>ROUNDABOUT</b>					
50+00 RND	54+42 RND	LT/RT	78.9	242.9	
50+00 RND	54+42 RND	LT	29.3	87.8	
<b>SUBTOTALS</b>			<b>1297</b>	<b>2904</b>	
<b>TOTAL</b>			<b>4201</b>		

7 SCHEDULE OF AGGREGATE BASE				
FROM STATION	TO STATION	OFFSET	AGGREGATE BASE COURSE, TYPE B 4-INCH (SQ YD) 35101600	AGGREGATE BASE COURSE, TYPE B 6-INCH (SQ YD) 35101800
<b>PEARL CITY RD</b>				
104+39 EB	108+12 EB	RT	202.8	
105+33 EB	108+68 EB	LT	249.6	
108+07 EB	109+07 EB	RT		86.2
108+66 EB	108+78 EB	LT		18.7
108+74 EB	108+93 EB	LT	37.3	
110+24 EB	111+14 EB	RT		90.4
110+41 EB	110+58 EB	LT	29.2	
110+56 EB	110+68 EB	LT		15.2
110+67 EB	113+22 EB	LT	260.3	
208+31 WB	209+22 EB	LT		123.1
210+26 WB	211+21 WB	LT		101.6
<b>FOREST RD</b>				
304+42 NB	305+89 NB	LT	102.7	
305+31 NB	306+30 NB	RT		81.7
305+89 NB	305+99 NB	LT		18.9
305+96 NB	306+14 NB	LT	37.2	
403+76 SB	405+35 SB	LT	85.3	
405+29 SB	406+35 SB	LT		110.4
<b>KIWANIS DR</b>				
307+42 NB	307+92 NB	RT		73.6
307+62 NB	307+81 NB	LT	39.0	
307+81 NB	307+92 NB	LT		15.4
307+92 NB	308+26 NB	LT	29.7	
407+53 SB	407+96 SB	LT	56.3	
<b>TOTAL</b>			<b>1129</b>	<b>735</b>

8 SCHEDULE OF BITUMINOUS MATERIALS (PRIME COAT)				
FROM STATION	TO STATION	OFFSET	BITUMINOUS MATERIALS (PRIME COAT) (GAL) 40600100	
			AGGREGATE SUBBASE	HMA BINDER COURSE
<b>PEARL CITY RD</b>				
102+00 EB	108+69 EB	RT & LT	574.9	143.7
104+18 EB	--	RT	43.2	10.8
110+66 EB	115+75 EB	LT & RT	376.2	94.1
202+00 WB	208+72 WB	LT	705.3	176.3
203+50 WB	--	LT	135.2	33.8
210+65 WB	215+75 WB	LT	383.7	95.9
215+46 WB	--	LT	53.3	13.3
<b>FOREST RD</b>				
302+25 NB	305+90 NB	LT & RT	274.9	68.7
303+57 NB	--	RT	60.0	15.0
402+25 SB	405+91 SB	LT	269.8	67.4
403+54 SB	--	LT	27.1	6.8
<b>KIWANIS DR</b>				
307+90 NB	310+30 NB	LT & RT	212.2	53.0
407+92 SB	410+30 NB	LT	187.6	46.9
<b>SUBTOTALS</b>			<b>3303</b>	<b>826</b>
<b>TOTAL</b>			<b>4129</b>	

9 SCHEDULE OF HOT-MIX ASPHALT PAVEMENT						
FROM STATION	TO STATION	OFFSET	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON) 40603230	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, DRIVEWAYS (TON) 40603230	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50 (TON) 40603535	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, DRIVEWAYS (TON) 40603535
			<b>PEARL CITY RD</b>			
102+00 EB	108+68 EB	RT & LT	517.4		172.5	
104+18 EB	--	RT		9.7		9.7
110+66 EB	115+75 EB	LT & RT	338.6		112.9	
202+00 WB	208+73 WB	LT	634.8		211.6	
203+50 WB	--	LT		30.4		30.4
210+65 WB	215+75 WB	LT	345.3		115.1	
215+46 WB	--	LT		12.0		12.0
<b>FOREST RD</b>						
302+25 NB	305+90 NB	LT & RT	247.4		82.5	
303+57 NB	--	RT		13.5		13.5
402+25 SB	405+91 SB	LT	242.8		80.9	
403+54 SB	--	LT		6.1		6.1
<b>KIWANIS DR</b>						
307+90 NB	310+30 NB	LT & RT	191.0		63.7	
407+92 SB	410+30 NB	LT	168.8		56.3	
<b>SUBTOTALS</b>			<b>2686.1</b>	<b>71.7</b>	<b>895.5</b>	<b>71.7</b>
<b>TOTALS</b>			<b>2758</b>		<b>967</b>	

10 SCHEDULE OF PCC PAVEMENT							
FROM STATION	TO STATION	OFFSET	PROTECTIVE COAT (SQ YD) 42001300	PORTLAND CEMENT CONCRETE PAVEMENT, 8-INCH (JOINTED) (SQ YD) 42000301	PORTLAND CEMENT CONCRETE PAVEMENT, 10-INCH (JOINTED) SPECIAL (SQ YD) X4200501	CONCRETE MEDIAN SURFACE, 4-INCH (SQ FT) 60618300	CORRUGATED MEDIAN (SQ FT) 60624600
			<b>PEARL CITY RD</b>				
104+35 EB	105+25 EB	LT					834
105+33 EB	108+68 EB	LT				2246	
108+68 EB	109+15 EB	RT	81.0	81.0			
108+73 EB	108+93 EB	LT				336	
110+16 EB	110+66 EB	RT	93.6	93.6			
110+41 EB	110+56 EB	LT				263	
110+67 EB	113+22 EB	LT				2343	
113+31 EB	114+10 EB	LT					604
208+73 WB	209+29 WB	LT	100.3	100.3			
210+18 WB	210+65 WB	LT	80.0	80.0			
<b>FOREST RD</b>							
303+83 NB	304+34 NB	LT					420
304+39 NB	305+90 NB	LT				924	
305+90 NB	306+38 NB	RT	80.3	80.3			
305+95 NB	306+14 NB	LT				335	
405+91 SB	406+44 SB	LT	99.0	99.0			
<b>KIWANIS DR</b>							
307+34 NB	307+72 NB	RT	102.1	105.9			
307+62 NB	307+81 NB	LT				351	
307+92 NB	308+26 NB	LT				267	
308+34 NB	308+86 NB	LT					279
407+45 SB	407+92 SB	LT	84.2	88.1			
<b>ROUNDAABOUT</b>							
50+00 RND	54+42 RND	LT	844.8	844.8			
50+00 RND	54+42 RND	LT	310.6		310.6		
<b>TOTAL</b>			<b>1876</b>	<b>1573</b>	<b>311</b>	<b>7065</b>	<b>2137</b>

11 SCHEDULE OF PATHS						
FROM STATION	TO STATION	OFFSET	PORTLAND CEMENT CONCRETE SIDEWALK, 4-INCH (SQ FT) 42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 5-INCH (SQ FT) 42400200	DETECTABLE WARNINGS (SQ FT) 42400800	PROTECTIVE COAT (SQ YD) 42001300
<b>PEARL CITY RD</b>						
104+39 EB	108+12 EB	RT	1825.1			202.8
108+07 EB	109+07 EB	RT		775.6		86.2
108+67 EB	108+78 EB	LT		168.5		18.7
108+75 EB	--	LT			20.0	
108+75 EB	--	RT			20.0	
110+24 EB	111+14 EB	RT		813.5		90.4
110+56 EB	110+66 EB	LT		137.1		15.2
110+60 EB	--	LT			20.0	
110+60 EB	--	RT			20.0	
208+31 WB	209+22 EB	LT		1108.2		123.1
208+78 WB	--	LT			20.0	
208+80 WB	--	RT			20.0	
210+26 WB	211+21 WB	LT		914.3		101.6
210+59 WB	--	LT			20.0	
210+59 WB	--	RT			20.0	
<b>FOREST RD</b>						
305+31 NB	306+30 NB	RT		735.5		81.7
305+89 NB	305+99 NB	LT		169.9		18.9
305+96 NB	--	LT			20.0	
305+96 NB	--	RT			20.0	
403+76 SB	405+35 SB	LT	768.1			85.3
405+29 SB	406+35 SB	LT		993.4		110.4
405+97 SB	--	LT			20.0	
405+97 SB	--	RT			20.0	
<b>KIWANIS DR</b>						
307+42 NB	307+92 NB	RT		661.6		73.5
307+81 NB	307+92 NB	LT		139.2		15.5
307+85 NB	--	LT			20.0	
307+85 NB	--	RT			20.0	
407+53 SB	407+94 SB	LT		507.2		56.4
407+87 SB	--	LT			20.0	
407+87 SB	--	RT			20.0	
<b>TOTAL</b>			<b>2593</b>	<b>7124</b>	<b>320</b>	<b>1080</b>

12 SCHEDULE OF PAVEMENT REMOVAL				
FROM STATION	TO STATION	PAVEMENT REMOVAL (SQ YD) 44000100	DRIVEWAY PAVEMENT REMOVAL (SQ YD) 44000200	MEDIAN REMOVAL (SQ FT) 44003100
<b>PEARL CITY RD</b>				
102+00 EB	115+75 EB	7154		
103+14 EB	103+31 EB			170
203+50 WB	--		335	
104+18 EB	--		110	
115+46 EB	--		143	
<b>FOREST RD</b>				
302+25 NB	306+89 EB	1736		
403+54 SB	--		112	
303+57 NB	--		183	
306+48 EB	306+82 EB			257
<b>KIWANIS DR</b>				
307+07 EB	310+30 EB	1577		
307+20 EB	307+51 EB			320
<b>TOTAL</b>		<b>10467</b>	<b>883</b>	<b>747</b>

13 SCHEDULE OF CURB AND GUTTER REMOVAL				
FROM STATION	TO STATION	OFFSET	COMBINATION CURB AND GUTTER REMOVAL (FEET) 44000500	COMMENTS
<b>PEARL CITY RD</b>				
102+15 EB	103+09 EB	LT	107	
102+00 EB	109+30 EB	RT	722	
103+13 EB	103+31 EB	LT	58	MEDIAN
103+44 EB	103+55 EB	LT	88	MEDIAN
103+80 EB	104+05 EB	RT	43	DRIVEWAY
103+85 EB	109+09 EB	LT	562	
104+34 EB	104+64 EB	RT	47	DRIVEWAY
109+24 EB	109+46 EB	LT	74	MEDIAN
109+84 EB	110+10 EB	RT	84	MEDIAN
110+07 EB	113+12 EB	LT	300	
110+25 EB	113+09 EB	RT	286	
115+13 EB	115+22 EB	LT	48	DRIVEWAY
115+51 EB	115+75 EB	LT	49	DRIVEWAY
<b>FOREST RD</b>				
303+11 NB	303+34 NB	LT	31	DRIVEWAY
303+19 NB	303+40 NB	RT	53	DRIVEWAY
303+71 NB	304+05 NB	LT	39	DRIVEWAY
303+76 NB	303+95 NB	RT	55	DRIVEWAY
305+63 NB	306+70 NB	RT	106	
305+64 NB	306+60 NB	LT	110	
<b>KIWANIS DR</b>				
307+32 NB	310+30 NB	LT	287	
307+38 NB	310+30 NB	RT	301	
<b>TOTAL</b>			<b>3450</b>	

14 SCHEDULE OF AGGREGATE SHOULDERS, TYPE A 6-INCH 48100500			
FROM STATION	TO STATION	OFFSET	AREA (SQ YD)
<b>PEARL CITY RD</b>			
113+34 EB	115+75 EB	RT	104.9
<b>FOREST RD</b>			
302+53 NB	303+22 NB	RT	57.6
402+13 SB	403+21 SB	LT	46.2
<b>TOTAL</b>			<b>209</b>

15 SCHEDULE OF STORM SEWER REMOVAL					
FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	PIPE CULVERT REMOVAL (FT) 50105220	REMOVING INLETS (EACH) 60500060
<b>PEARL CITY RD</b>					
102+65 EB	RT 14.6	--	--	--	1
110+18 EB	RT 9.4	--	--	--	1
110+18 EB	RT 9.4	110+24 EB	RT 13.7	8	
113+03 EB	RT 23.6	--	--	--	1
113+03 EB	RT 23.6	113+03 EB	RT 34.8	11	
113+05 EB	LT 28.6	--	--	--	1
113+05 EB	LT 26.6	113+04 EB	RT 21.5	48	
<b>FOREST RD</b>					
302+17 NB	RT 27.6	302+57 NB	RT 27.6	39	
303+06 NB	LT 30.7	303+92 NB	LT 36.1	71	
303+32 NB	RT 23	303+88 NB	RT 19.8	56	
<b>KIWANIS DR</b>					
309+94 NB	RT 23.3	--	--	--	1
309+95 NB	LT 24.8	--	--	--	1
309+95 NB	LT 24.3	309+94 NB	RT 22.7	47	
<b>TOTAL</b>				<b>280</b>	<b>6</b>

16 SCHEDULE OF STRUCTURES										
STATION	OFFSET (FT)	STRUCTURE NO.	MANHOLES, TYPE A, 4-FT DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH) 60218400	MANHOLES TO BE ADJUSTED (EACH) 60255500	INLETS, SPECIAL (EACH) X6024240	DOUBLE INLET, SPECIAL (EACH) X6024210	INLETS TO BE ADJUSTED (EACH) 60260100	PRECAST REINFORCED CONCRETE FLARED END SECTION 18-INCH (EACH) 54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION 24-INCH (EACH) 54213669	PRECAST REINFORCED CONCRETE FLARED END SECTION EQUIVALENT ROUND SIZE 18-INCH (EACH) 54214503
<b>PEARL CITY RD</b>										
102+64.8 EB	RT 14.6	D2			1					
104+04.1 EB	RT 36.0						1			
104+35.5 EB	RT 35.7						1			
104+65.0 EB	RT 18.6	D4			1					
108+00.0 EB	RT 20.2	D6				1				
108+90.0 EB	RT 21.1	D8			1					
110+87.5 EB	RT 11.6		1							
113+07.5 EB	RT 18.6	D10				1				
113+20.5 EB	RT 46.0	D11							1	
202+57.5 WB	LT 26.6	D1				1				
204+24.0 WB	LT 31.6	D3				1				
208+00.0 WB	LT 21.2	D5			1					
208+70.0 WB	LT 18.7	D7			1					
210+01.8 WB	LT 82.5		1							
213+03.0 WB	LT 18.6	D9				1				
215+23.0 WB	LT 28.6	D12			1					
<b>FOREST RD</b>										
302+17.0 NB	RT 27.5	D13							1	
302+55.9 NB	RT 30.0	D14							1	
303+30.0 NB	RT 34.0	D15								1
303+85.0 NB	RT 39.0	D16								1
303+92.0 NB	RT 38.0	D17					1			
304+00.0 NB	RT 23.0	D18	1							
304+00.0 NB	RT 18.6	D19			1					
305+00.0 NB	RT 23.2	D21	1							
305+00.0 NB	RT 18.8	D22			1					
306+15.5 NB	RT 24.0	D24	1							
404+00.0 SB	LT 18.8	D20				1				
405+00.0 SB	LT 20.4	D23				1				
405+82.9 SB	LT 32.6			1						
<b>KIWANIS DR</b>										
309+94.6 NB	RT 24.6	D26			1					
309+95.2 NB	LT 23.1	D25			1					
<b>ROUNDAABOUT</b>										
51+65.0 RND	LT 22.6	D27			1					
51+65.0 RND	RT 2.6	D28			1					
<b>TOTAL</b>			<b>3</b>	<b>3</b>	<b>12</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>

17		SCHEDULE OF STORM PIPE AND PIPE UNDERDRAINS											
FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	PIPE NO.	STORM SEWER, CLASS A, TYPE 1 12-INCH (FT) 550A0050	STORM SEWER, CLASS A, TYPE 1, 15-INCH (FT) 550A0070	STORM SEWER, CLASS A, TYPE 1, 18-INCH (FT) 550A0090	STORM SEWER, CLASS A, TYPE 1, 24-INCH (FT) 550A0120	STORM SEWER, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 18-INCH (FT) 550A4000	PIPE UNDERDRAINS 6-INCH (FT) 60108200	STORM SEWER, CLASS B, TYPE 2, 24-INCH (FT) 550B0410		
PEARL CITY RD													
202+07.5 WB	LT	25.6	202+57.5 WB	LT	25.6	DP1				50			
202+57.5 WB	LT	25.6	204+24.0 WB	LT	30.6	DP2	167						
202+57.5 WB	LT	25.6	102+64.8 EB	RT	13.6	DP3				52			
102+14.8 EB	RT	13.6	102+64.8 EB	RT	13.6	DP4				50			
102+64.8 EB	RT	13.6	103+14.8 EB	RT	13.6	DP5				50			
104+04.1 EB	RT	36.0	104+65.0 EB	RT	17.6	DP6	35						
208+00.0 WB	LT	20.2	108+00.0 EB	RT	19.2	DP7	50						
108+00.0 EB	RT	19.2	108+90.0 EB	RT	20.1	DP8	77						
208+70.0 WB	LT	17.7	108+90.0 EB	RT	20.1	DP9	64						
108+90.0 EB	RT	20.1	306+15.5 NB	RT	24.0	DP10	130						
212+53.0 WB	LT	17.6	213+03.0 WB	LT	17.6	DP11				50			
213+03.0 WB	LT	17.6	113+07.5 EB	RT	17.6	DP12		49					
112+57.5 EB	RT	17.6	113+07.5 EB	RT	17.6	DP13				50			
113+07.5 EB	RT	17.6	113+57.5 EB	RT	17.6	DP14				50			
113+07.5 EB	RT	17.6	113+20.5 EB	RT	46.0	DP15		31					
213+03.0 WB	LT	17.6	215+23.0 WB	LT	27.6	DP16	221						
114+34.0 EB	RT	50.0	114+86	RT	89.0	TDP1					65		
FOREST RD													
302+17.0 NB	RT	27.5	302+55.9 NB	RT	30.0	DP17		39					
303+30.0 NB	RT	34.0	303+85.0 NB	RT	39.0	DP18			56				
303+92.0 NB	RT	38.0	304+00.0 NB	RT	23.0	DP19							
304+00.0 NB	RT	23.0	304+00.0 NB	RT	17.6	DP20	5		18				
304+00.0 NB	RT	17.6	404+00.0 SB	LT	17.8	DP21	43						
304+00.0 NB	RT	23.0	305+00.0 NB	RT	23.2	DP22				104			
305+00.0 NB	RT	23.2	305+00.0 NB	RT	17.8	DP23	5						
305+00.0 NB	RT	17.8	405+00.0 SB	LT	19.4	DP24	48						
305+00.0 NB	RT	23.2	306+15.5 NB	RT	24.0	DP25				100			
KIWANIS DR													
309+94.6 NB	LT	23.6	309+95.2 NB	RT	22.1	DP27	46						
ROUNDAABOUT													
306+15.5 NB	RT	24.0	51+65.0 RND	LT	21.6	DP26	77						
51+65.0 RND	LT	21.6	51+65.0 RND	RT	1.6	DP28	23						
51+65.0 RND	LT	21.6	52+41.7 RND	LT	21.6	DP 29				50			
<b>TOTAL</b>							<b>991</b>	<b>152</b>	<b>122</b>	<b>119</b>	<b>56</b>	<b>300</b>	<b>65</b>

18		SCHEDULE OF WATER MAIN						
FROM STATION	OFFSET (FT)	TO STATION	OFFSET (FT)	DUCTILE IRON WATER MAIN, 8-INCH (FT) 56103100	DUCTILE IRON WATER MAIN, 12-INCH (FT) 56103300	WATER MAIN PROTECTION (FT) X5610680		
PEARL CITY RD								
108+61.5 EB	RT	16.1	108+71.5 EB	RT	34.6		20	
113+11.3 EB	RT	50.2	113+28.6 EB	RT	39.3		20	
113+33.3 EB	RT	7.3	113+32.3 EB	RT	27.2		20	
207+34.8 WB	LT	29.8	210+39.3 WB	LT	51.5		346	
207+57.0 WB	LT	36.7	207+57.1 WB	LT	45.0		5	
213+32.0 WB	LT	28.8	213+32.9 WB	LT	8.8		20	
FOREST RD								
303+80.6 NB	RT	28.7	302+82.7 NB	RT	48.6		20	
303+83.1 NB	RT	58.2	403+80.4 SB	LT	17.3	80		
403+80.4 SB	LT	17.3	208+60.7 WB	LT	35.6		392	
403+80.4 SB	LT	17.3	407+35.3 NB	LT	32.6			
<b>TOTAL</b>					<b>80</b>	<b>743</b>	<b>100</b>	

**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
SCHEDULE OF QUANTITIES

JOB NUMBER:  
12-471

SHEET NUMBER:  
14 of 93

G:\Microstation\2012\12-471\plan set\12-471-6.sched.qdt

19		SCHEDULE OF WATER MAIN APPURTENANCES												
STATION	OFFSET (FT)	WATER VALVE, 8-INCH (EA)	WATER VALVE, 12-INCH (EA)	ADJUSTING WATER VALVES, 12-INCH (EA)	FIRE HYDRANT TO BE REMOVED (EA)	DUCTILE IRON WATER MAIN FITTINGS, 12", 45 DEGREE BEND (EA)	DUCTILE IRON WATER MAIN FITTINGS, 12", 11.25 DEGREE BEND (EA)	FIRE HYDRANT WITH AUXILIARY VALVE, AND TEE (EA)	DUCTILE IRON WATER MAIN TEE, 12"x8" (EA)	DUCTILE IRON WATER MAIN TEE, 12"x12" (EA)	WATER MAIN LINE STOP, 12" (EA)	CONNECTION TO EXISTING WATER MAIN, 8-INCH (EA)	CONNECTION TO EXISTING WATER MAIN, 12-INCH (EA)	
<b>PEARL CITY RD</b>														
108+73.3 EB	RT	39.7				1								
207+34.8 WB	LT	29.8											1	
207+35.8 WB	LT	29.8				1								
207+43.0 WB	LT	36.9				1								
207+50.0 WB	LT	36.8	1											
207+53.0 WB	LT	48.0									1			
207+55.5 WB	LT	41.5											1	
207+57.0 WB	LT	36.7							1					
207+57.0 WB	LT	40.0	1											
207+57.1 WB	LT	45.0				1								
207+65.9 WB	LT	32.0			1									
208+60.7 WB	LT	35.6							1					
208+60.3 WB	LT	25.0	1											
209+03.5 WB	LT	40.9						1						
210+32.0 WB	LT	49.9			1									
210+38.3 WB	LT	51.5				1								
210+39.3 WB	LT	51.5											1	
213+31.7 WB	LT	35.5		1										
<b>FOREST RD</b>														
303+83.1 NB	RT	58.2										1		
305+50.0 NB	RT	45.5			1									
307+54.0 NB	LT	18.0					1							
403+79.5 SB	LT	17.3												1
403+80.2 SB	LT	12.3	1											
403+80.4 SB	LT	17.3							1					
403+80.5 SB	LT	24.8		1										
403+80.6 SB	LT	27.3				1								
403+83.7 SB	LT	30.3				1								
406+20.6 SB	LT	23.8				1								
<b>ROUNDAABOUT</b>														
52+16.9 RND	RT	36.8				1								
52+19.0 RND	RT	33.5	1											
52+26.3 RND	RT	26.2						1						
<b>TOTAL</b>			<b>1</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>

REVISIONS		
REV. NO.	DESCRIPTION	DATE

20 SCHEDULE OF COMBINATION CONCRETE CURB AND GUTTER						
FROM STATION	TO STATION	OFFSET	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12 (FT) 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18 (FT) 60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24 (FT) 60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL) (FT) X6061815
<b>PEARL CITY RD</b>						
102+00 EB	103+81 EB	RT			181	
103+81 EB	104+05 EB	RT		41		
104+35 EB	104+59 EB	RT		38		
104+59 EB	109+11 EB	RT			449	
105+27 EB	108+93 EB	LT			372	
110+20 EB	113+30 EB	RT			317	
110+41 EB	113+29 EB	LT			291	
202+00 WB	202+71 EB	LT			71	
202+71 WB	203+13 WB	LT		61		
203+44 WB	203+55 WB	LT		88		
203+78 WB	204+21 WB	LT		70		
204+21 WB	209+17 WB	LT			526	
205+27 WB	209+01 WB	RT			376	
210+22 WB	215+07 WB	LT			490	
210+40 WB	213+29 WB	RT			292	
215+07 WB	215+22 WB	LT		53		
<b>FOREST RD</b>						
303+22 NB	303+39 NB	RT		40		
303+75 NB	303+94 NB	RT		42		
303+94 NB	306+34 NB	RT			243	
304+36 NB	306+15 NB	LT			182	
403+21 SB	403+34 SB	LT		18		
403+74 SB	403+92 SB	LT		22		
403+92 SB	406+40 SB	LT			260	
404+35 SB	406+18 SB	RT			185	
<b>KIWANIS DR</b>						
307+38 NB	310+30 NB	RT			300	
307+62 NB	308+33 NB	LT			73	
407+48 SB	410+30 SB	LT			284	
407+67 SB	408+34 SB	RT			70	
<b>ROUNDAABOUT</b>						
50+00 RND	54+42 RND	LT	229			
50+00 RND	54+42 RND	LT				305
50+45 RND	50+71 RND	RT			27	
51+48 RND	51+68 RND	RT			22	
52+63 RND	52+85 RND	RT			25	
53+76 RND	54+01 RND	RT			27	
<b>TOTAL</b>			<b>229</b>	<b>473</b>	<b>5061</b>	<b>305</b>

REVISIONS		
REV. NO.	DESCRIPTION	DATE



21 SCHEDULE OF SIGNS											
FROM STATION	TO STATION	CODE	SIGN SIZE (IN(x) x IN(y))	DESCRIPTION	OFFSET (LT/RT)	METAL POST 72900200			TUBULAR STEEL SIGN SUPPORT- BREAKAWAY 72700200	SIGN PANEL, TYPE 1 72000100	SIGN PANEL, TYPE 2 72000200
						METAL POST TYPE B, 12-FT (FT)	METAL POST TYPE B, 13-FT (FT)	METAL POST TYPE B, 14-FT (FT)			
<b>PEARL CITY RD</b>											
B.O.P.	CIRCLE	R4-7	24 x 30	KEEP RIGHT (SYMBOL)	MEDIAN			14	42	5	
		W2-6	30 x 30	CIRCULAR INTERSECTION	RT			14	42	6	
		W16-8aP	48 x 18	ADVANCED ROAD NAME	RT					6	
		R4-4	36 x 30	BEGIN RIGHT TURN LANE	LT			14	42	8	
		R2-1	24 x 30	SPEED LIMIT (45)	LT			14	42	5	
		R1-2	36 x 36	YIELD	MEDIAN			14	42	5	
		R1-2	36 x 36	YIELD	RT			14	42	5	
		D1-1d	78 x 18	DESTINATION SIGN (P.C. ROAD)	MEDIAN		26		78		10
CIRCLE	E.O.P.	D1-1d	78 x 18	DESTINATION SIGN (P.C. ROAD)	MEDIAN		26		78		10
		R1-2	36 x 36	YIELD	MEDIAN			14	42	5	
		R1-2	36 x 36	YIELD	LT			14	42	5	
		R2-1	24 x 30	SPEED LIMIT (45)	RT			14	42	5	
		R4-7	24 x 30	KEEP RIGHT (SYMBOL)	MEDIAN			14	42	5	
		W2-6	30 x 30	CIRCULAR INTERSECTION	LT			14	42	6	
		W16-8aP	48 x 18	ADVANCED ROAD NAME	LT					6	
<b>FOREST RD</b>											
B.O.C.	CIRCLE	W2-6	30 x 30	CIRCULAR INTERSECTION	RT			28	84	6	
		W16-8aP	60 x 18	ADVANCED ROAD NAME	RT					8	
		R2-1	24 x 30	SPEED LIMIT (40)	LT			14	42	5	
		R4-7	24 x 30	KEEP RIGHT (SYMBOL)	MEDIAN			14	42	5	
		R1-2	36 x 36	YIELD	MEDIAN			14	42	5	
		R1-2	36 x 36	YIELD	RT			14	42	5	
		D1-1d	60 x 18	DESTINATION SIGN (FOREST ROAD)	MEDIAN		13		39	8	
<b>KIWANIS DR</b>											
CIRCLE	E.O.C.	D1-1d	66 x 18	DESTINATION SIGN (KIWANIS DRIVE)	MEDIAN		13		39	8	
		R1-2	36 x 36	YIELD	MEDIAN			14	42	5	
		R1-2	36 x 36	YIELD	LT			14	42	5	
		R4-7	24 x 30	KEEP RIGHT (SYMBOL)	MEDIAN			14	42	5	
		R2-1	24 x 30	SPEED LIMIT (40)	RT			14	42	5	
		W2-6	30 x 30	CIRCULAR INTERSECTION	LT			28	84	6	
		W16-8aP	60 x 18	ADVANCED ROAD NAME	LT					8	
<b>ROUNDAABOUT</b>											
P.C. RD EB		R6-4b	60 x 24	ROUNDAABOUT DIRECTIONAL	CENTRAL ISLAND	24			72		10
		R6-1R	54 x 18	ONE WAY						7	
P.C. RD WB		R6-4b	60 x 24	ROUNDAABOUT DIRECTIONAL	CENTRAL ISLAND	24			72		10
		R6-1R	54 x 18	ONE WAY						7	
FOREST RD NB		R6-4b	60 x 24	ROUNDAABOUT DIRECTIONAL	CENTRAL ISLAND	24			72		10
		R6-1R	54 x 18	ONE WAY						7	
KIWANIS DR SB		R6-4b	60 x 24	ROUNDAABOUT DIRECTIONAL	CENTRAL ISLAND	24			72		10
		R6-1R	54 x 18	ONE WAY						7	
<b>SUBTOTAL</b>						96	78	322			
<b>TOTAL</b>							496		1488	179	60

22 SCHEDULE OF REMOVE SIGN PANEL AND SIGN PANEL ASSEMBLY					
	APPROXIMATE STATION	OFFSET (LT/RT)	ESTIMATED SIGN SIZE (IN(x) x IN(y))	DESCRIPTION	REMOVE SIGN PANEL, TYPE 1 (SQ FT) 72400310
<b>PEARL CITY RD</b>					
	102+88	LT	30 x 30	DO NOT ENTER	7
	102+88	LT	30 x 30	STOP	7
	103+16	LT (DWY ISLAND)	30 x 30	STOP	7
	103+54	LT (DWY MEDIAN)	30 x 30	STOP	7
	103+54	LT (DWY MEDIAN)	24 x 30	KEEP RIGHT (SYMBOL)	5
	105+07	RT	36 x 36	CROSS ROAD	9
	105+07	RT	6 x 24	PLAQUE	1
	105+86	LT	24 x 24	COLLEGE ENTRANCE	4
	108+00	LT	36 x 36	SIDE ROAD	9
	108+00	LT	6 x 24	PLAQUE	1
	108+00	LT	18 x 24	MISC LOCAL SIGN	3
	109+23	RT	6 x 18	STREET NAME SIGN	1
	109+23	RT	6 x 18	STREET NAME SIGN	1
	111+14	RT	18 x 24	MISC LOCAL SIGN	3
	111+73	RT	24 x 36	WINTER PARKING	6
	114+94	LT	36 x 36	CROSS ROAD	9
	114+94	LT	6 x 24	PLAQUE	1
<b>FOREST RD</b>					
	304+32	RT	36 x 36	STOP AHEAD	9
	306+73	RT (ISLAND)	36 x 36	STOP	9
	306+73	RT (ISLAND)	36 x 15	CROSS TRAFFIC DOES NOT STOP	4
	306+73	RT (ISLAND)	36 x 15	CROSS TRAFFIC DOES NOT STOP	4
	306+67	RT	36 x 36	STOP	9
	306+67	RT	36 x 36	DO NOT ENTER	9
<b>KIWANIS DR</b>					
	307+25	LT (ISLAND)	36 x 15	CROSS TRAFFIC DOES NOT STOP	4
	307+25	LT (ISLAND)	36 x 15	CROSS TRAFFIC DOES NOT STOP	4
	307+25	LT (ISLAND)	36 x 36	STOP	9
	307+25	LT (ISLAND)	6 x 18	STREET NAME SIGN	1
	307+25	LT (ISLAND)	6 x 18	STREET NAME SIGN	1
	307+25	LT (ISLAND)	6 x 18	STREET NAME SIGN	1
	307+27	LT	36 x 36	DO NOT ENTER	9
	307+27	LT	36 x 36	STOP	9
	315+00	LT	36 x 36	STOP AHEAD	9
<b>TOTAL</b>					<b>172</b>

REVISIONS		
REV. NO.	DESCRIPTION	DATE

23				SCHEDULE OF PAVEMENT MARKINGS											
FROM STATION	TO STATION	OFFSET (FT, LT/RT)	DESCRIPTION	78003100	78003140	78003150	78003160	78004200			78004210		78004240		
				PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE B											
				WORDS "YIELD" (SQ. FT)	YIELD SYMBOL (SQ. FT)	LINE 8" (FT)	LINE 12" (FT)	LINE 16" (FT)	INLAID WORDS "BIKE LANE" (SQ. FT)	INLAID ARROWS (SQ. FT)	INLAID LINE 4" (FT)	INLAID LINE 4" (FT)	INLAID LINE 4" (FT)	INLAID LINE 8" (FT)	
				WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	YELLOW	DOUBLE YELLOW	WHITE	
<b>PEARL CITY RD</b>															
200+95.1	202+76.7	VARIES, LT	EDGE LINE								183				
202+00	203+41.2	0	CENTERLINE										282		
	203+22.6	6, RT	LEFT ARROW						15.6						
102+67.9	103+41.2	0	CHANNELIZING LINE											73	
	203+42.2	14.5, LT	WORDS						9.5						
204+21.1	205+67.8	12, LT	EDGE LINE								148				
204+21.1	205+67.8	17, LT	CHANNELIZING LINE											148	
	103+62.5	14, RT	WORDS						9.5						
104+34.3	105+30.6	VARIES, RT	YELLOW EDGE LINE									99			
204+34.8	205+31.8	0	YELLOW EDGE LINE									97			
	204+39.5	23, LT	RIGHT ARROW						15.6						
104+58.9	107+78.5	12, RT	EDGE LINE								317				
	205+55.3	23, LT	RIGHT ARROW						15.6						
205+67.8	206+85.6	12, LT	EDGE LINE SKIP-DASH								30				
205+67.8	206+85.6	17, LT	CHANNELIZING SKIP-DASH											30	
206+85.6	208+26.6	VARIES, LT	EDGE LINE								137				
107+78.5	108+40.5	VARIES, RT	EDGE LINE SKIP-DASH								14				
	207+08.0	14.5, LT	WORDS						9.5						
208+26.6	208+59.5	VARIES, LT	EDGE LINE SKIP-DASH								8				
108+70.1	108+78.1	VARIES, RT	CROSSWALK					60							
208+75.2	208+83.2	VARIES, LT	CROSSWALK					60							
	108+83.4	8.9, RT	WORDS	22.3											
	AT CIRCLE	VARIES, RT	SYMBOL		18.0										
	AT CIRCLE	VARIES, LT	SYMBOL		18.0										
110+55.9	110+63.9	VARIES, RT	CROSSWALK					60							
210+65.5	210+73.5	VARIES, LT	CROSSWALK					60							
110+78.2	111+17.7	VARIES, RT	EDGE LINE SKIP-DASH								8				
210+97.6	211+59.4	VARIES, LT	EDGE LINE SKIP-DASH								14				
	211+60.0	8.9, LT	WORDS	22.3											
111+17.7	115+06.9	VARIES, RT	EDGE LINE								388				
	111+19.6	16.7, RT	WORDS						9.5						
211+59.4	215+17.4	VARIES, LT	EDGE LINE								361				
113+25.3	114+08.1	0	YELLOW EDGE LINE									83			
213+34.7	214+18.7	0	YELLOW EDGE LINE									84			
114+08.1	115+93.3	0	PAINTED MEDIAN, CENTERLINE										370		
214+18.7	215+17.3	0	PAINTED MEDIAN										197		
	115+13.9	13.9, LT	WORDS						9.5						
<b>FOREST RD</b>															
302+22.0	305+06.9	12, RT	EDGE LINE								287				
302+22.0	403+86.0	0	PAINTED MEDIAN, CENTERLINE											327	
302+22.0	405+23.5	12, LT	EDGE LINE								300				
302+46.7	303+85.7	0	PAINTED MEDIAN											279	
303+85.7	304+38.6	0	YELLOW EDGE LINE									52			
403+86.0	404+37.9	0	YELLOW EDGE LINE									52			
	303+01.2	13.9, RT	WORDS						9.5						
305+06.9	305+67.7	VARIES, RT	EDGE LINE SKIP-DASH								14				
	405+19.7	16.3, LT	WORDS						9.5						
405+23.5	405+84.3	VARIES, LT	EDGE LINE SKIP-DASH								16				
305+91.6	305+99.6	VARIES, RT	CROSSWALK					60							
405+92.8	406+00.8	VARIES, LT	CROSSWALK					60							
	306+05.0	8.8, RT	WORDS	22.3											
	AT CIRCLE	VARIES, RT	SYMBOLS		18.0										
<b>KIWANIS DR</b>															
	AT CIRCLE	VARIES, LT	SYMBOLS		18.0										
	407+76.9	9.2, LT	WORDS	22.3											
307+77.8	307+79.8	VARIES, RT	CROSSWALK					60							
407+82.2	407+90.2	VARIES, LT	CROSSWALK					60							
308+34.4	309+84.3	0	YELLOW EDGE LINE									54			
408+30.7	409+84.3	0	YELLOW EDGE LINE									54			
309+84.3	312+82.9	0	PAINTED MEDIAN, CENTERLINE										375		
409+84.3	309+42.3	0	PAINTED MEDIAN										70		
309+42.4	310+72.0	12, RT	LANE LINE SKIP-DASH								40				
<b>ROUNDAABOUT</b>															
P.C. RD (WEST)			MISC.			55		18							
P.C. RD (EAST)			MISC.			48		18							
FOREST RD			MISC.			56		18							
KIWANIS DR			MISC.			51		18							
<b>SUBTOTAL</b>				<b>89.2</b>	<b>72.0</b>				<b>66.5</b>	<b>46.8</b>	<b>2265</b>	<b>575</b>	<b>1901</b>		
<b>TOTAL</b>				<b>161</b>		<b>209</b>		<b>480</b>	<b>72</b>	<b>113</b>	<b>4740</b>		<b>251</b>		



ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
SCHEDULE OF QUANTITIES

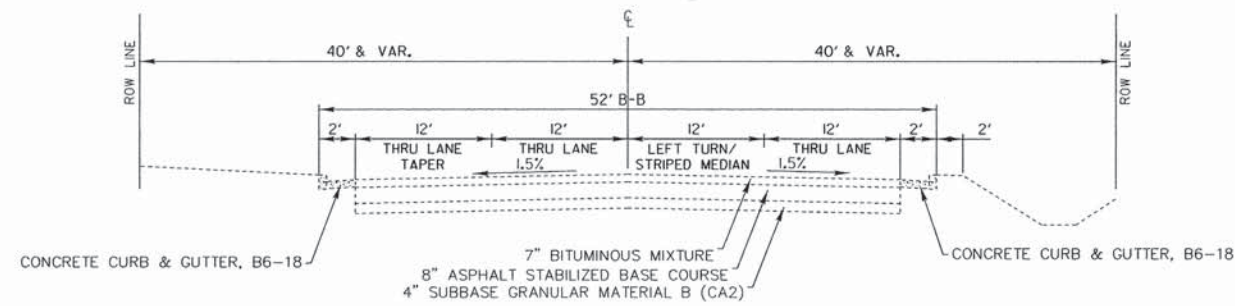
JOB NUMBER:  
12-471

SHEET NUMBER:  
19 of 93

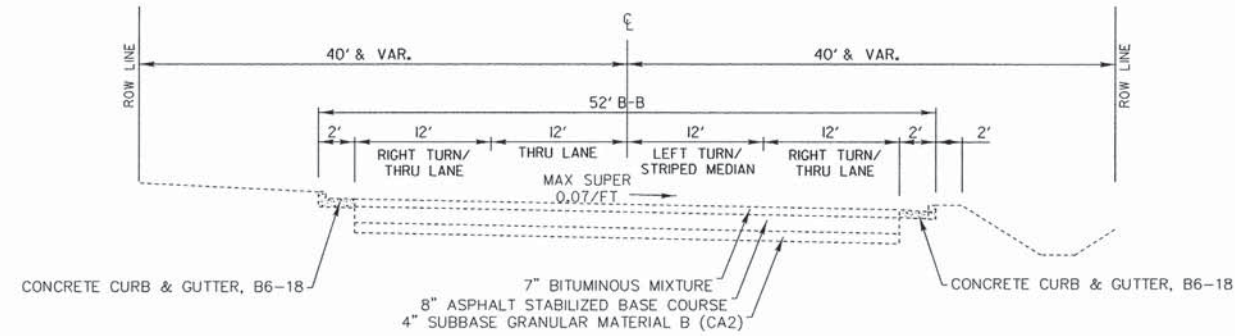
G:\InMicrostation\2012\12-471\plan set\12-471-6 schedule.dgn

24		SCHEDULE OF LIGHTING						
FROM STATION	OFFSET (FT)	FIXTURE	ELECTRIC SERVICE INSTALLATION (EA) 80400100	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150 WATT (EA) 82102150	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V, 60A (EA) 82500330	LIGHT POLE, ALUMINUM, 30FT M.H., 12 FT MAST ARM (EA) 83006500	LIGHT POLE FOUNDATION, 24" DIAMETER (FT) 83600200	
<b>PEARL CITY RD</b>								
104+76 EB	RT	30.0	LC-1-3	1		1	5	
106+55 EB	RT	30.0	LC-1-2	1		1	5	
108+45 EB	RT	34.0	LC-1-1	1		1	5	
209+06 WB	LT	40.0	LC-1-4	1		1	5	
210+79 WB	LT	37.0	LC-2-6	1		1	5	
212+27 WB	LT	36.0	LC-2-7	1		1	5	
213+85 WB	LT	44.0	LC-2-8	1		1	5	
<b>FOREST RD</b>								
304+24 NB	RT	30.0	LC-2-3	1		1	5	
305+66 NB	RT	34.0	LC-2-2	1		1	5	
307+62 NB	LT	40.0	LC-2-5	1		1	5	
406+23 SB	LT	38.0	LC-2-1	1		1	5	
<b>KIWANIS DR</b>								
309+58 NB	LT	28.0	LC-1-6	1		1	5	
408+18 SB	LT	34.0	LC-1-5	1		1	5	
<b>ROUNDAABOUT</b>								
51+24 RND	RT	26.0	LC-2-4	1		1	5	
54+31 RND	RT	24.0	LC		1			
54+32 RND	RT	34.0		1				
<b>TOTAL</b>				<b>1</b>	<b>14</b>	<b>1</b>	<b>14</b>	<b>70</b>

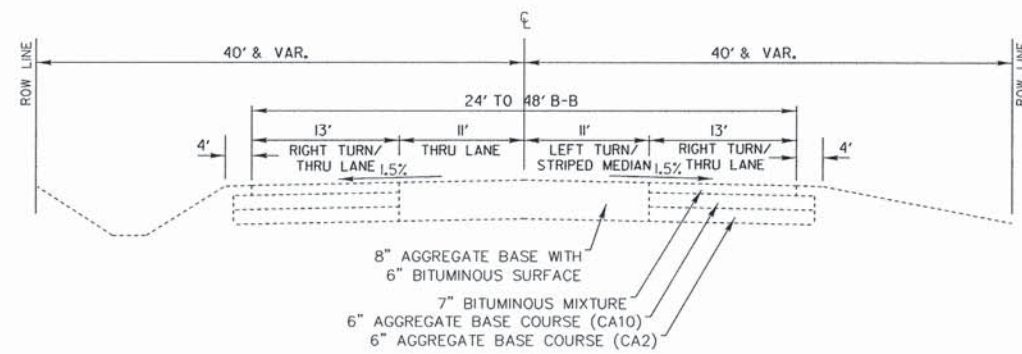
REVISIONS		
REV. NO.	DESCRIPTION	DATE



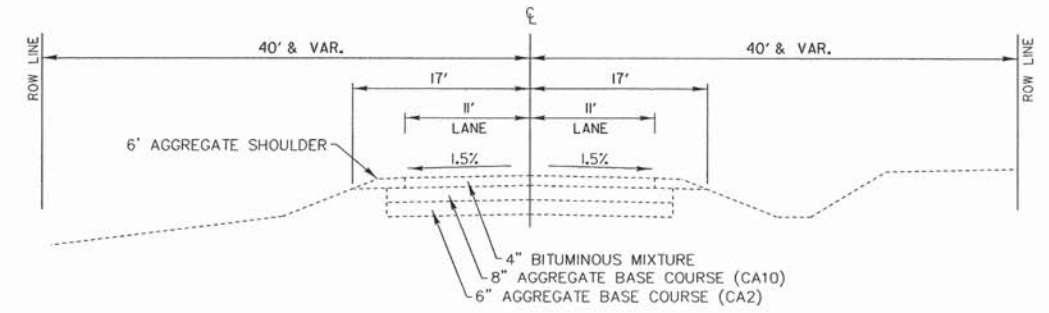
EXISTING TYPICAL SECTION  
PEARL CITY ROAD  
BEGINNING OF PROJECT TO  
HIGHLAND COLLEGE ENTRANCE



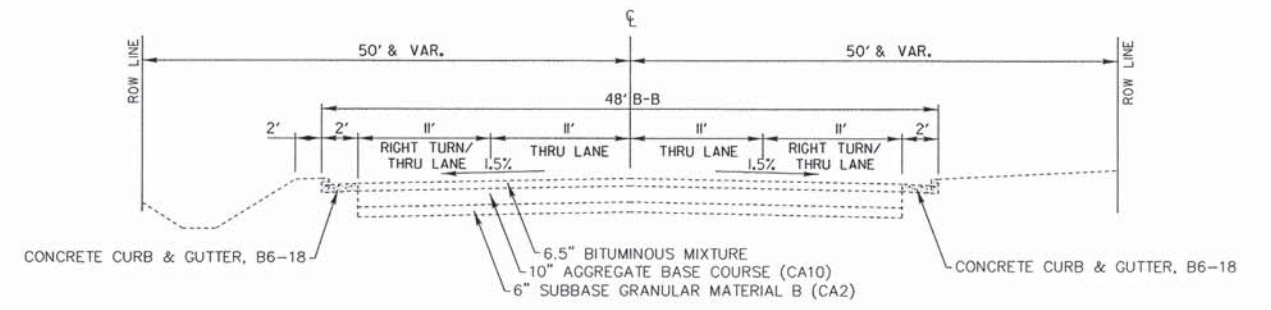
EXISTING TYPICAL SECTION  
PEARL CITY ROAD  
HIGHLAND COLLEGE ENTRANCE  
TO STA 113+10EB



EXISTING TYPICAL SECTION  
PEARL CITY ROAD  
113+10EB TO END OF PROJECT



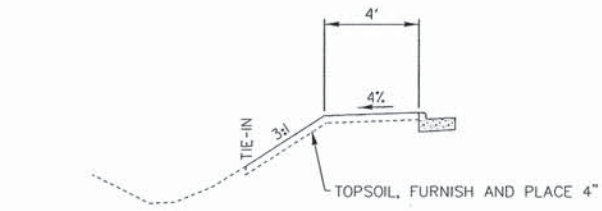
EXISTING TYPICAL SECTION  
FOREST ROAD  
BEGINNING OF PROJECT  
TO 305+60NB



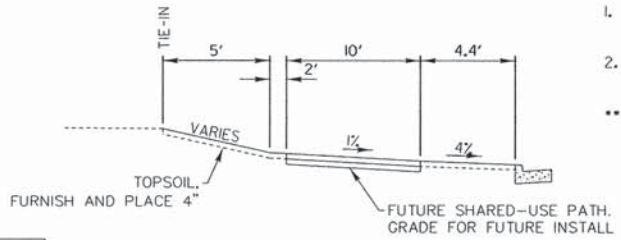
EXISTING TYPICAL SECTION  
FOREST ROAD  
305+60NB TO INTERSECTION

EXISTING TYPICAL SECTION  
KIWANIS DRIVE  
INTERSECTION TO END OF PROJECT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

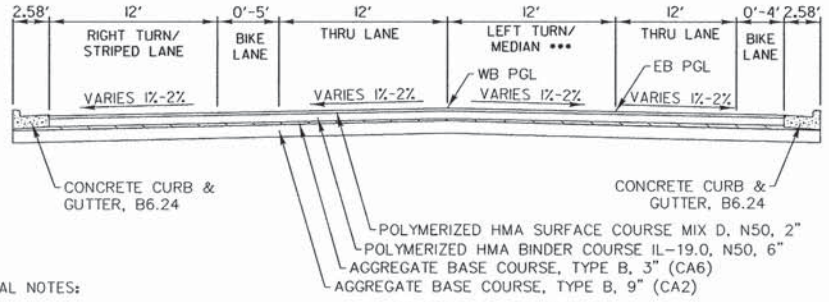


PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 202+00 WB TO 203+60.44 WB



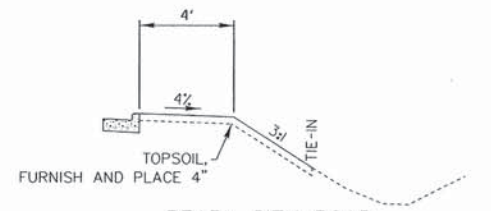
PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 203+60.44 WB TO 205+27.71WB

	SURFACE	BINDER
PG:	SBS PG70-28	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	D	N/A
20 YEAR ESAL	1.10	1.10
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN

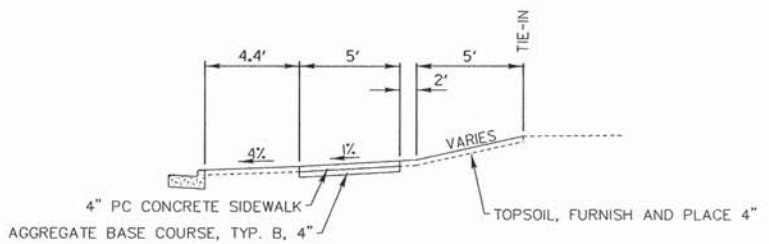


PEARL CITY ROAD  
FINISHED TYPICAL SECTION  
STA. 102+00 EB TO 105+26.57 EB  
STA. 202+00 WB TO 205+27.71WB

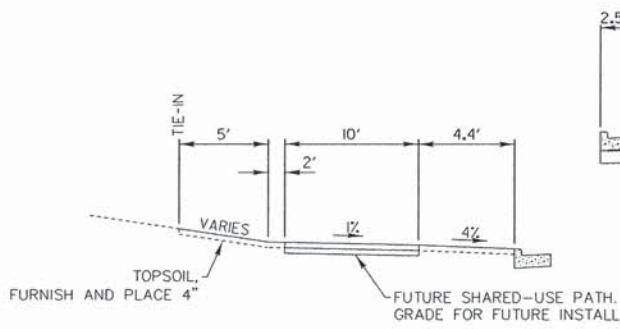
- GENERAL NOTES:
- MIXTURE COMPOSITION FOR SURFACE COURSE SHALL BE IL 9.5.
  - MIXTURE COMPOSITION FOR BINDER COURSE SHALL BE IL 19.0.
- \*\*\* CORRUGATED MEDIAN  
STA 104+34.52 EB TO 105+26.57 EB



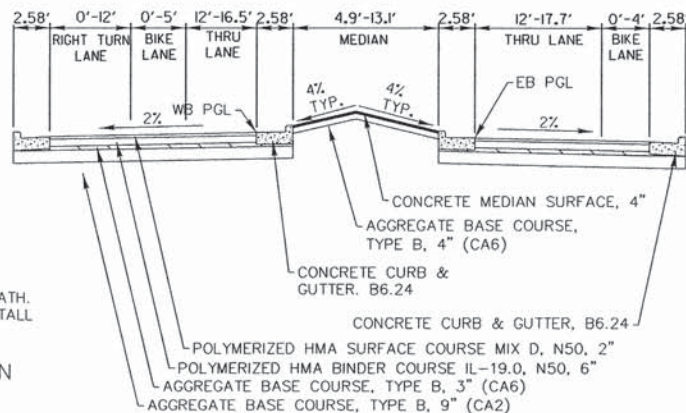
PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 102+00 EB TO 104+19.91 EB



PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 104+19.91 EB TO 105+26.57 EB

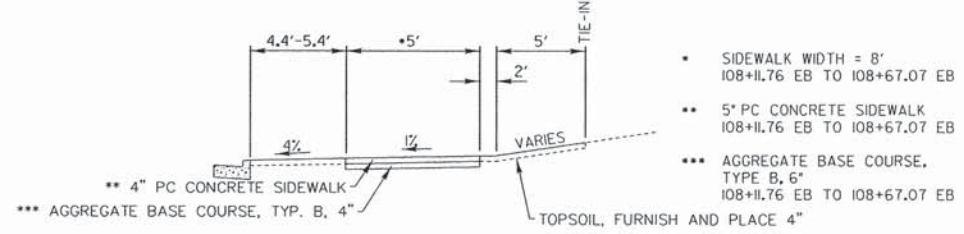


PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 205+27.71WB TO 207+00 WB



PEARL CITY ROAD  
FINISHED TYPICAL SECTION  
STA. 105+26.57 EB TO 108+67.07 EB  
STA. 205+27.71WB TO 208+72.44 WB  
STA. 110+65.94 EB TO 113+29.14 EB  
STA. 210+66.06 WB TO 213+28.94 WB

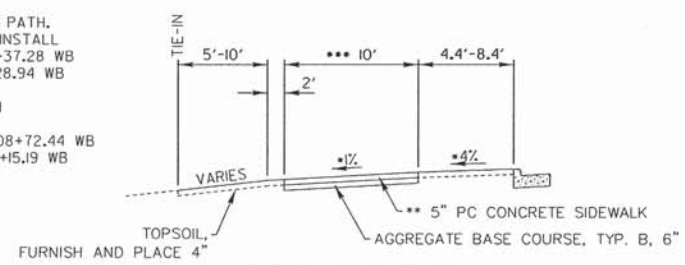
- GENERAL NOTES:
- MIXTURE COMPOSITION FOR SURFACE COURSE SHALL BE IL 9.5.
  - MIXTURE COMPOSITION FOR BINDER COURSE SHALL BE IL 19.0.



PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA 105+26.57 EB TO 108+67.07 EB

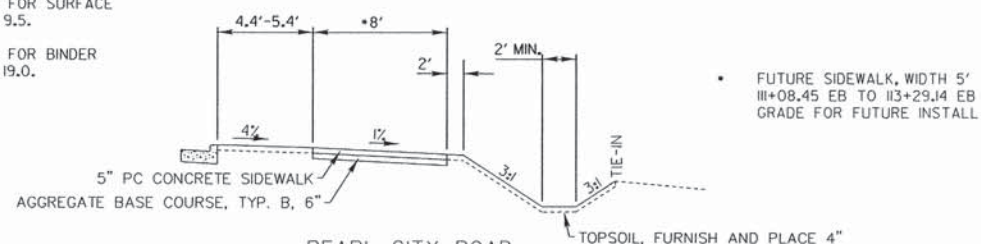
- SIDEWALK WIDTH = 8'  
108+11.76 EB TO 108+67.07 EB
- 5" PC CONCRETE SIDEWALK  
108+11.76 EB TO 108+67.07 EB
- \*\*\* AGGREGATE BASE COURSE, TYPE B, 6"  
108+11.76 EB TO 108+67.07 EB

- SLOPE DIRECTION TRANSITIONS  
207+00WB TO 207+50WB
- FUTURE SHARED-USE PATH, GRADE FOR FUTURE INSTALL  
207+00 WB TO 208+37.28 WB  
211+15.19 WB TO 213+28.94 WB
- 10' SHARED-USE PATH TO BE INSTALLED  
208+37.28 WB TO 208+72.44 WB  
210+66.06 WB TO 211+15.19 WB



PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 207+00 WB TO 208+72.44 WB  
STA. 210+66.06 WB TO 213+28.94 WB

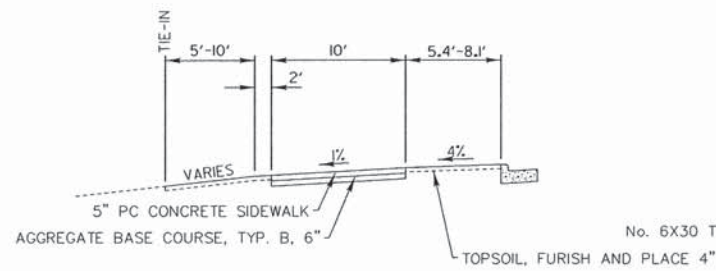
	SURFACE	BINDER
PG:	SBS PG70-28	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	D	N/A
20 YEAR ESAL	1.10	1.10
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN



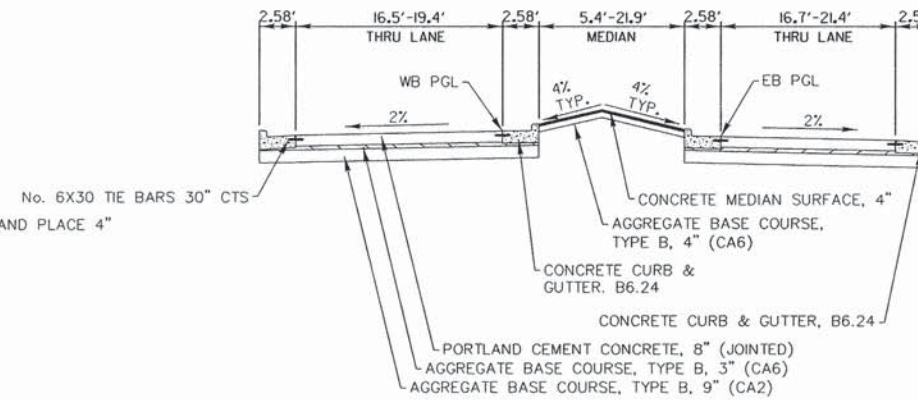
PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 110+65.94 EB TO 113+29.14 EB

- FUTURE SIDEWALK, WIDTH 5'  
113+08.45 EB TO 113+29.14 EB  
GRADE FOR FUTURE INSTALL

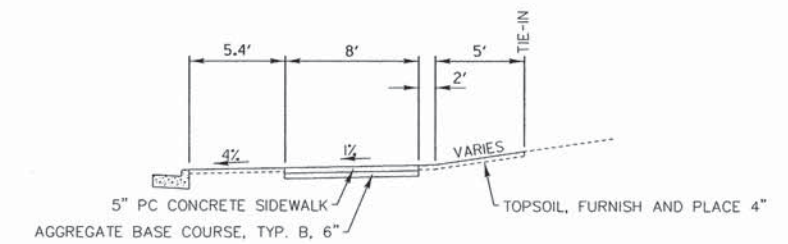
REVISIONS		
REV. NO.	DESCRIPTION	DATE



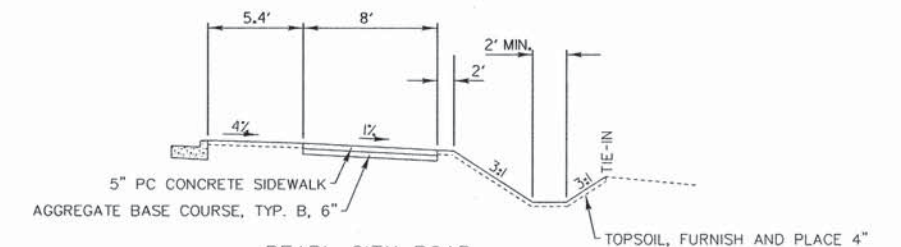
PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 208+72.44 WB TO 209+08.66 WB  
STA. 210+34.89 WB TO 210+66.06 WB



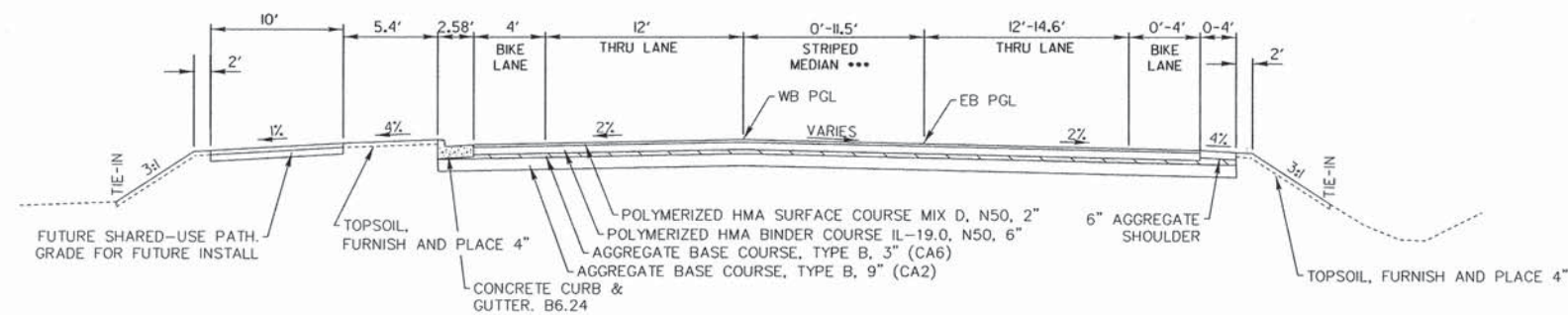
PEARL CITY ROAD  
FINISHED TYPICAL SECTION  
STA. 108+67.07 EB TO 108+98.20 EB  
STA. 208+72.44 WB TO 209+08.66 WB  
STA. 110+35.12 EB TO 110+65.94 EB  
STA. 210+34.89 WB TO 210+66.06 WB



PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 108+67.07 EB TO 108+98.20 EB



PEARL CITY ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 110+35.12 EB TO 110+65.94 EB



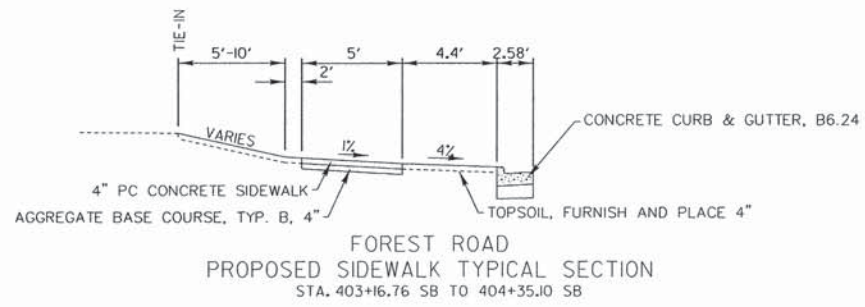
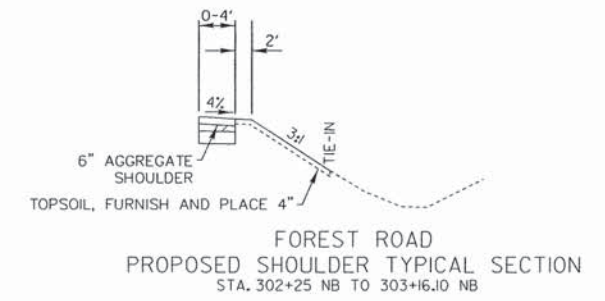
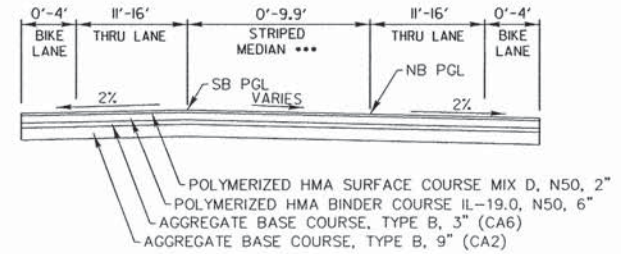
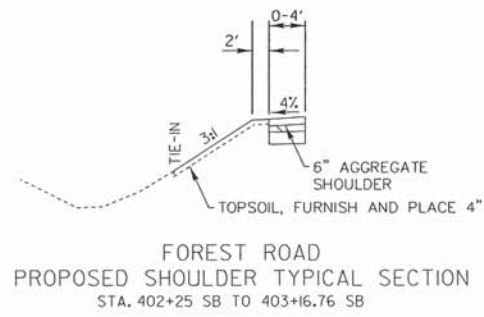
PEARL CITY ROAD  
FINISHED TYPICAL SECTION  
STA. 113+29.14 EB TO 115+75.00 EB  
STA. 213+28.94 WB TO 215+75.00 WB

GENERAL NOTES:

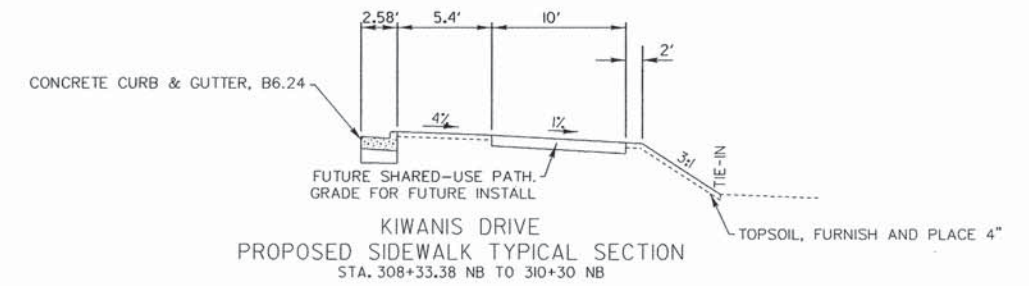
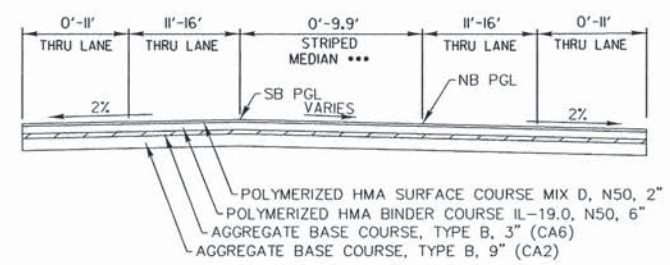
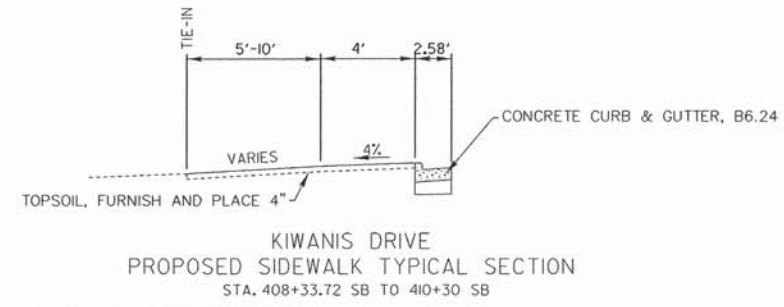
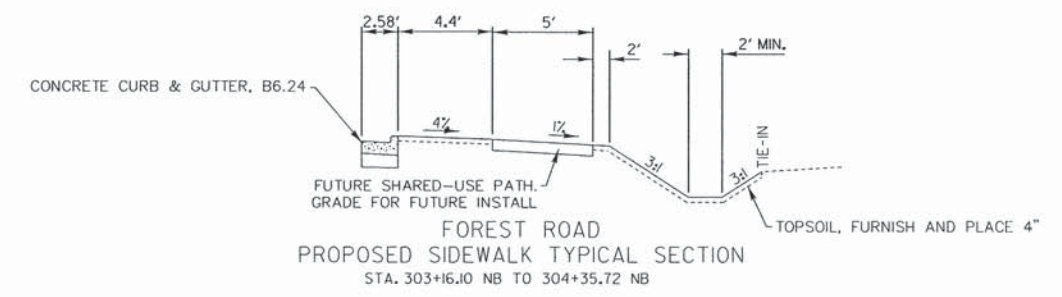
- MIXTURE COMPOSITION FOR SURFACE COURSE SHALL BE IL 9.5.
  - MIXTURE COMPOSITION FOR BINDER COURSE SHALL BE IL 19.0.
- \*\*\* CORRUGATED MEDIAN  
STA 113+29.14 EB TO 114+09.94 EB

	SURFACE	BINDER
PG:	SBS PG70-28	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGEGRATE	D	N/A
20 YEAR ESAL	1.10	1.10
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN

REVISIONS		
REV. NO.	DESCRIPTION	DATE



- GENERAL NOTES:
- MIXTURE COMPOSITION FOR SURFACE COURSE SHALL BE IL 9.5.
  - MIXTURE COMPOSITION FOR BINDER COURSE SHALL BE IL 19.0.
- \*\*\* CORRUGATED MEDIAN  
STA 303+83.11 NB TO 304+35.72 NB  
STA 303+33.38 NB TO 308+85.81 NB

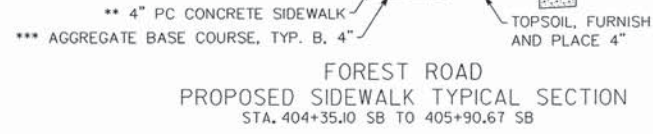


	SURFACE	BINDER
PG:	SBS PG70-28	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	D	N/A
20 YEAR ESAL	1.10	1.10
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN

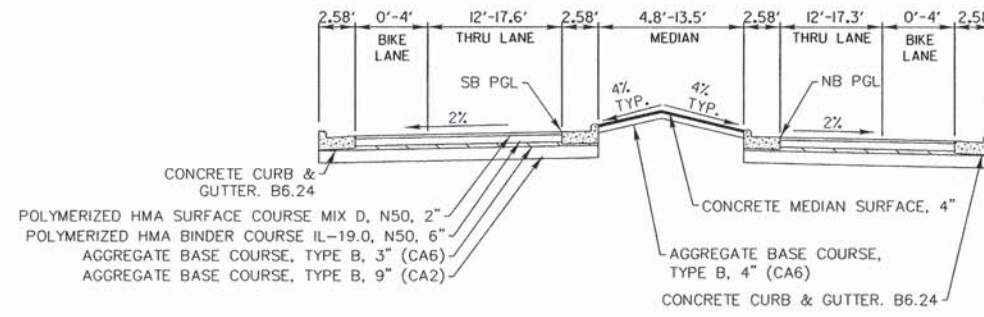
REVISIONS		
REV. NO.	DESCRIPTION	DATE



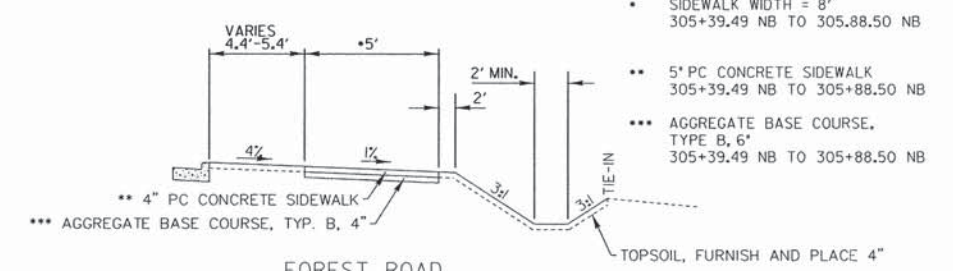
- 405+34.95 SB TO 405+90.67 SB  
SIDEWALK WIDTH = 8'
- 5' PC CONCRETE SIDEWALK  
405+34.95 SB TO 405+90.67 SB
- AGGREGATE BASE COURSE,  
TYPE B, 6"  
405+34.95 SB TO 405+90.67 SB



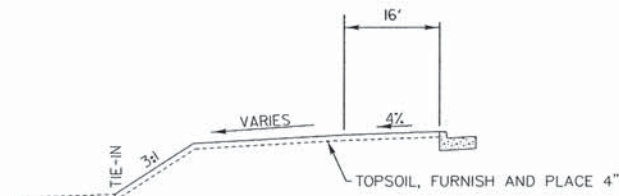
FOREST ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 404+35.10 SB TO 405+90.67 SB



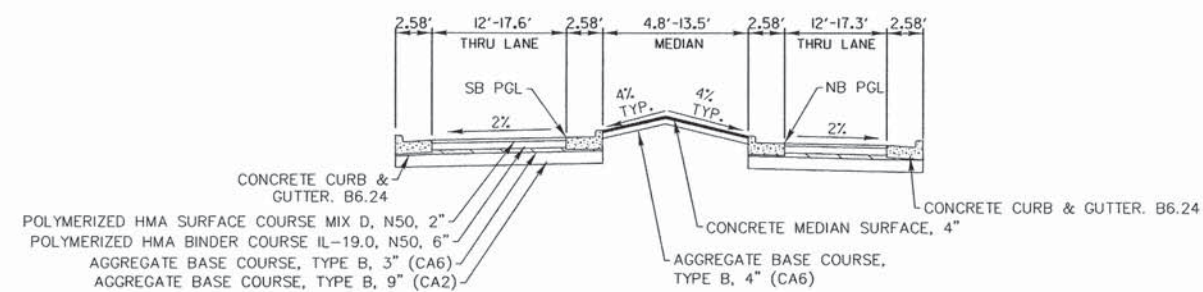
FOREST ROAD  
FINISHED TYPICAL SECTION  
STA. 304+35.72 NB TO 305+88.50 NB  
STA. 404+35.10 SB TO 405+90.67 SB



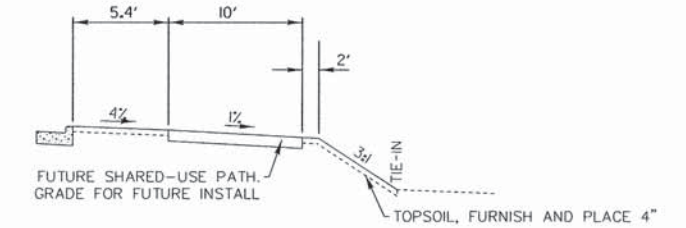
FOREST ROAD  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 304+35.72 NB TO 305+88.50 NB



KIWANIS DRIVE  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 407+95.79 SB TO 408+33.72 SB



KIWANIS DRIVE  
FINISHED TYPICAL SECTION  
STA. 307+92.35 NB TO 308+33.38 NB  
STA. 407+95.79 SB TO 408+33.72 SB



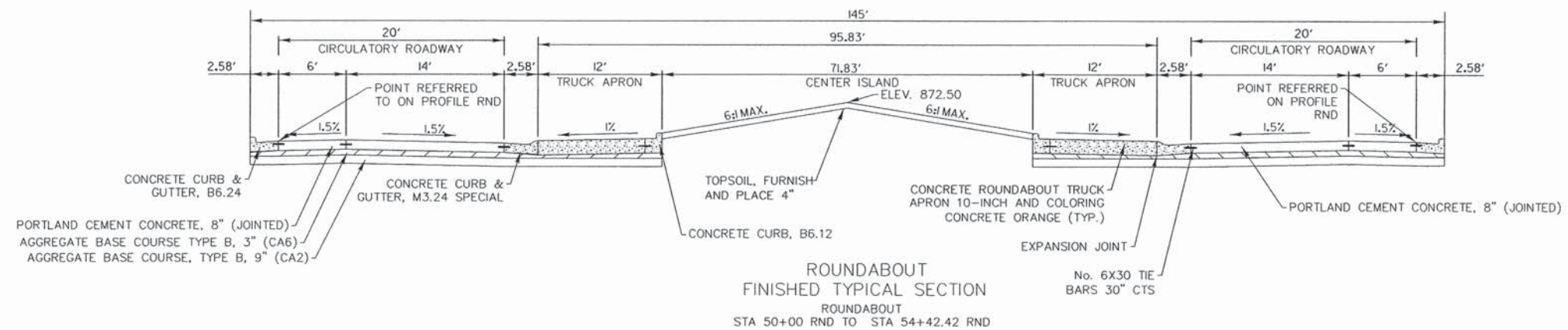
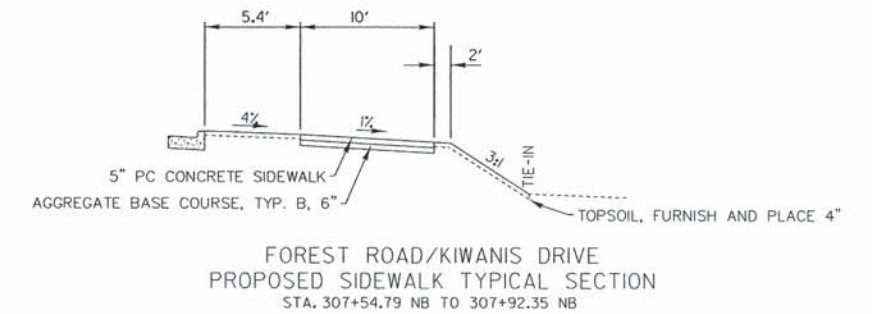
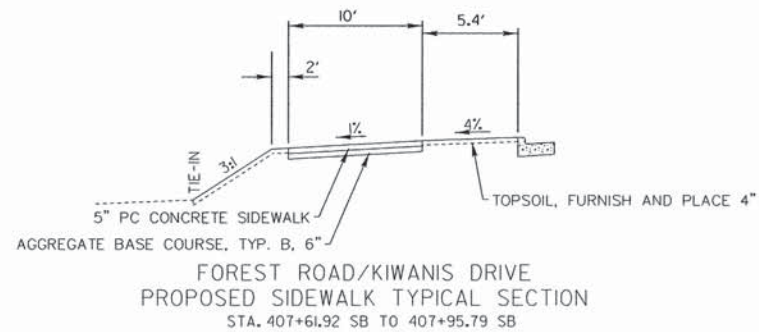
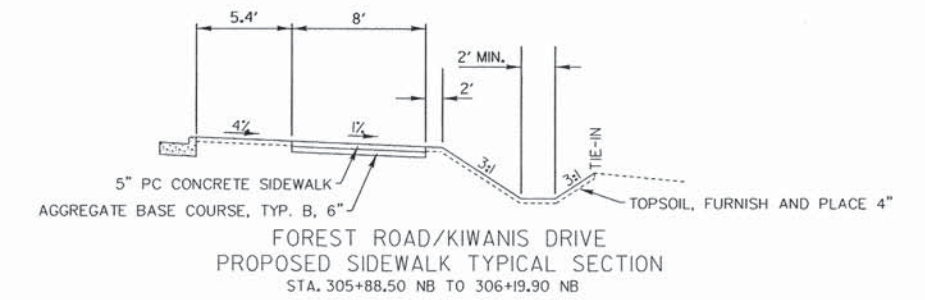
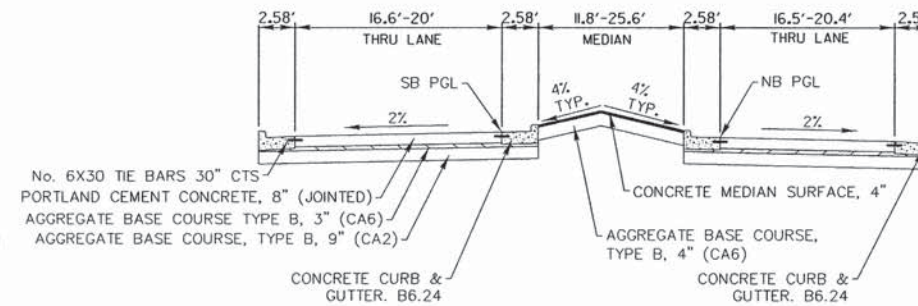
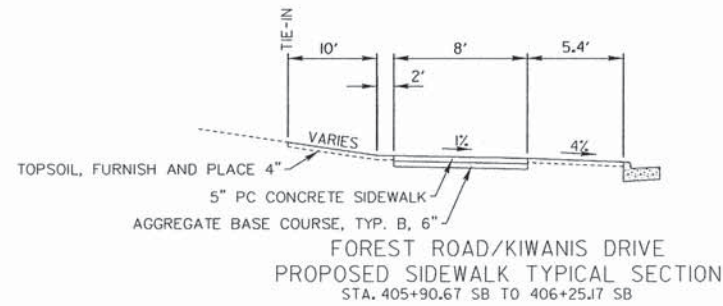
KIWANIS DRIVE  
PROPOSED SIDEWALK TYPICAL SECTION  
STA. 307+92.35 NB TO 308+33.38 NB

GENERAL NOTES:

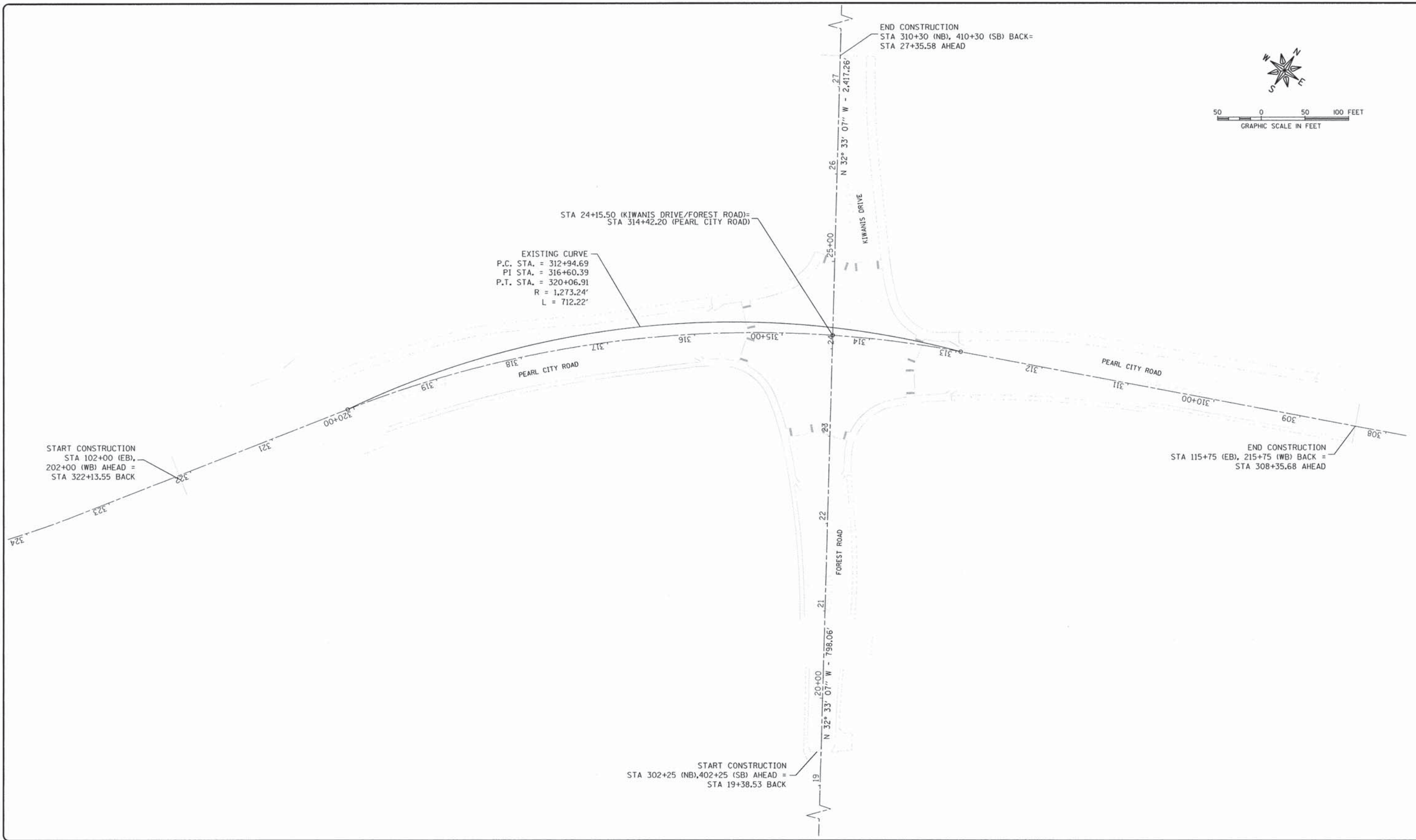
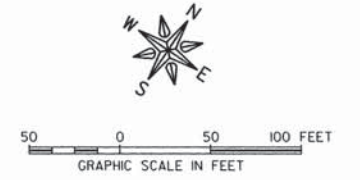
1. MIXTURE COMPOSITION FOR SURFACE COURSE SHALL BE IL 9.5.
2. MIXTURE COMPOSITION FOR BINDER COURSE SHALL BE IL 19.0.

	SURFACE	BINDER
PG:	SBS PG70-28	SBS PG 70-28
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGEGRATE	D	N/A
20 YEAR ESAL	1.10	1.10
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN

REVISIONS		
REV. NO.	DESCRIPTION	DATE



REVISIONS		
REV. NO.	DESCRIPTION	DATE



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: YG  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 EXISTING ALIGNMENTS

JOB NUMBER:  
 12-471

SHEET NUMBER:  
 27 of 93

PROP. CURVE NB-1  
P.C. STA. = 302+46.71  
PI STA. = 302+76.52  
P.T. STA. = 303+06.30  
R = 1,000.00'  
L = 59.59'

PROP. CURVE NB-2  
P.C. STA. = 303+82.08  
PI STA. = 304+43.14  
P.T. STA. = 305+03.78  
R = 600.00'  
L = 121.70'

PROP. CURVE NB-3  
P.C. STA. = 305+50.39  
PI STA. = 305+86.35  
P.T. STA. = 306+19.90  
R = 110.00'  
L = 69.52'

PROP. CURVE NB-4  
P.C. STA. = 308+29.91  
PI STA. = 308+30.16  
P.T. STA. = 308+30.41  
R = 5.00'  
L = 0.50'

PROP. CURVE NB-5  
P.C. STA. = 308+95.35  
PI STA. = 309+18.91  
P.T. STA. = 309+42.42  
R = 400.00'  
L = 47.07'

PROP. CURVE NB-6  
P.C. STA. = 309+42.42  
PI STA. = 309+53.90  
P.T. STA. = 309+65.38  
R = 1,000.00'  
L = 22.96'

PROP. CURVE NB-7  
P.C. STA. = 309+65.38  
PI STA. = 309+97.41  
P.T. STA. = 310+29.43  
R = 1,000.00'  
L = 64.05'

PROP. CURVE SB-1  
P.C. STA. = 403+53.29  
PI STA. = 404+89.81  
P.T. STA. = 406+25.17  
R = 1,200.00'  
L = 271.89'

PROP. CURVE SB-2  
P.C. STA. = 407+61.91  
PI STA. = 407+85.99  
P.T. STA. = 408+09.07  
R = 95.00'  
L = 47.16'

PROP. CURVE SB-2A  
P.C. STA. = 408+09.07  
PI STA. = 408+19.92  
P.T. STA. = 408+30.7604  
R = 316.00'  
L = 21.69'

PROP. CURVE SB-3  
P.C. STA. = 408+30.76  
PI STA. = 408+47.93  
P.T. STA. = 408+65.07  
R = 316.00'  
L = 34.31'

PROP. CURVE SB-4  
P.C. STA. = 409+19.40  
PI STA. = 409+30.91  
P.T. STA. = 409+42.42  
R = 1,999.97'  
L = 23.02'

PROP. CURVE WB-1  
P.C. STA. = 204+06.64  
PI STA. = 205+67.46  
P.T. STA. = 207+26.59  
R = 1,273.24'  
L = 319.95'

PROP. CURVE WB-2  
P.C. STA. = 208+33.76  
PI STA. = 208+52.48  
P.T. STA. = 208+71.20  
R = 1,000.01'  
L = 37.44'

PROP. CURVE WB-3  
P.C. STA. = 210+45.33  
PI STA. = 210+81.29  
P.T. STA. = 211+14.84  
R = 110.00'  
L = 69.52'

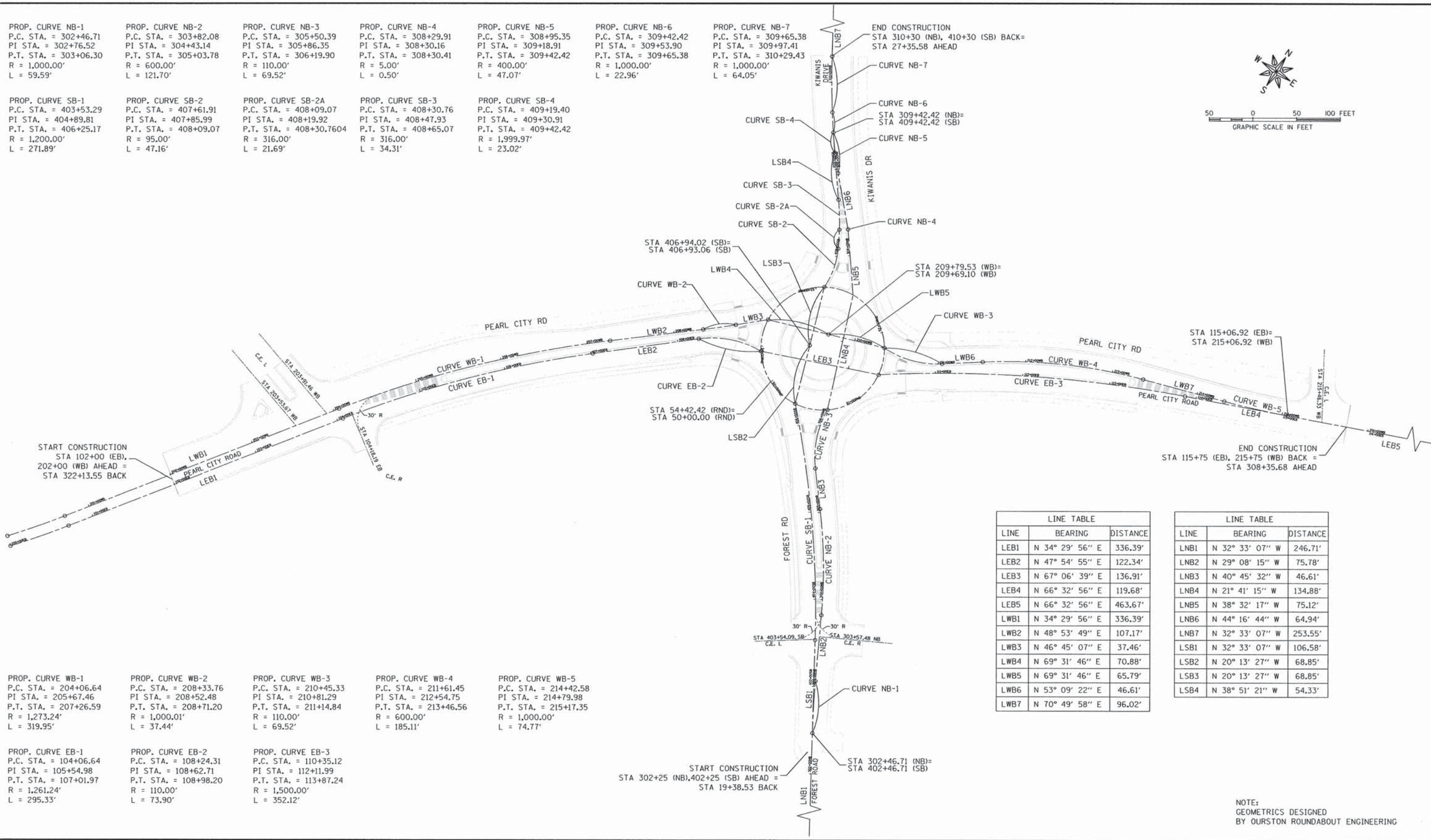
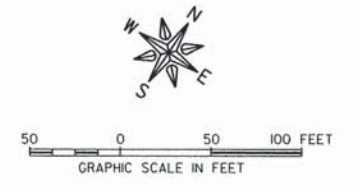
PROP. CURVE WB-4  
P.C. STA. = 211+61.45  
PI STA. = 212+54.75  
P.T. STA. = 213+46.56  
R = 600.00'  
L = 185.11'

PROP. CURVE WB-5  
P.C. STA. = 214+42.58  
PI STA. = 214+79.98  
P.T. STA. = 215+17.35  
R = 1,000.00'  
L = 74.77'

PROP. CURVE EB-1  
P.C. STA. = 104+06.64  
PI STA. = 105+54.98  
P.T. STA. = 107+01.97  
R = 1,261.24'  
L = 295.33'

PROP. CURVE EB-2  
P.C. STA. = 108+24.31  
PI STA. = 108+62.71  
P.T. STA. = 108+98.20  
R = 110.00'  
L = 73.90'

PROP. CURVE EB-3  
P.C. STA. = 110+35.12  
PI STA. = 112+11.99  
P.T. STA. = 113+87.24  
R = 1,500.00'  
L = 352.12'



LINE	BEARING	DISTANCE
LEB1	N 34° 29' 56" E	336.39'
LEB2	N 47° 54' 55" E	122.34'
LEB3	N 67° 06' 39" E	136.91'
LEB4	N 66° 32' 56" E	119.68'
LEB5	N 66° 32' 56" E	463.67'
LWB1	N 34° 29' 56" E	336.39'
LWB2	N 48° 53' 49" E	107.17'
LWB3	N 46° 45' 07" E	37.46'
LWB4	N 69° 31' 46" E	70.88'
LWB5	N 69° 31' 46" E	65.79'
LWB6	N 53° 09' 22" E	46.61'
LWB7	N 70° 49' 58" E	96.02'

LINE	BEARING	DISTANCE
LNB1	N 32° 33' 07" W	246.71'
LNB2	N 29° 08' 15" W	75.78'
LNB3	N 40° 45' 32" W	46.61'
LNB4	N 21° 41' 15" W	134.88'
LNB5	N 38° 32' 17" W	75.12'
LNB6	N 44° 16' 44" W	64.94'
LNB7	N 32° 33' 07" W	253.55'
LSB1	N 32° 33' 07" W	106.58'
LSB2	N 20° 13' 27" W	68.85'
LSB3	N 20° 13' 27" W	68.85'
LSB4	N 38° 51' 21" W	54.33'

NOTE:  
GEOMETRICS DESIGNED  
BY OURSTON ROUNDABOUT ENGINEERING

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

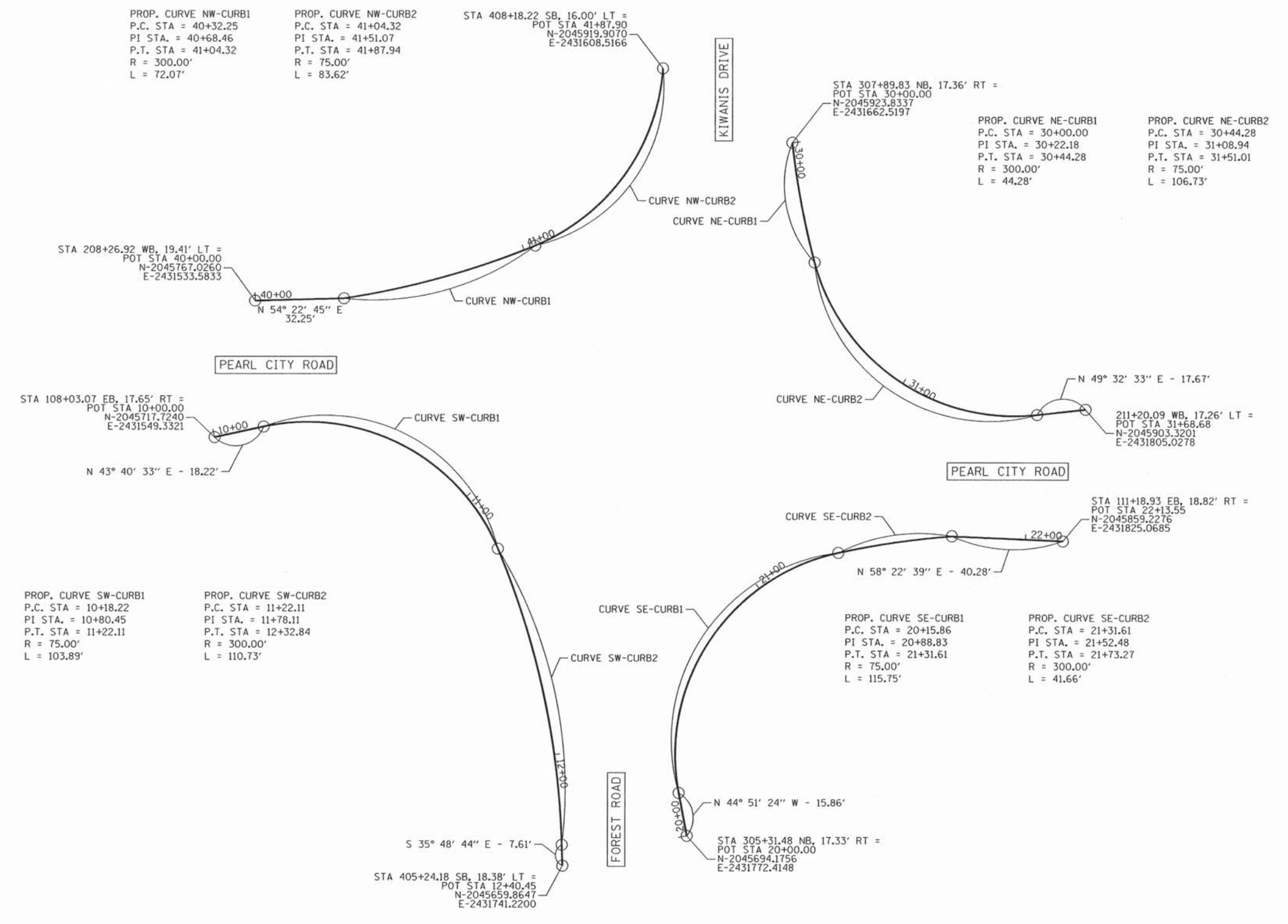
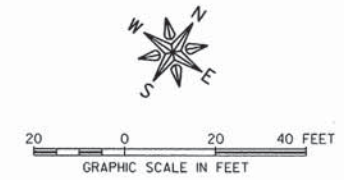
PROJECT AND LOCATION:  
ROUNDABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

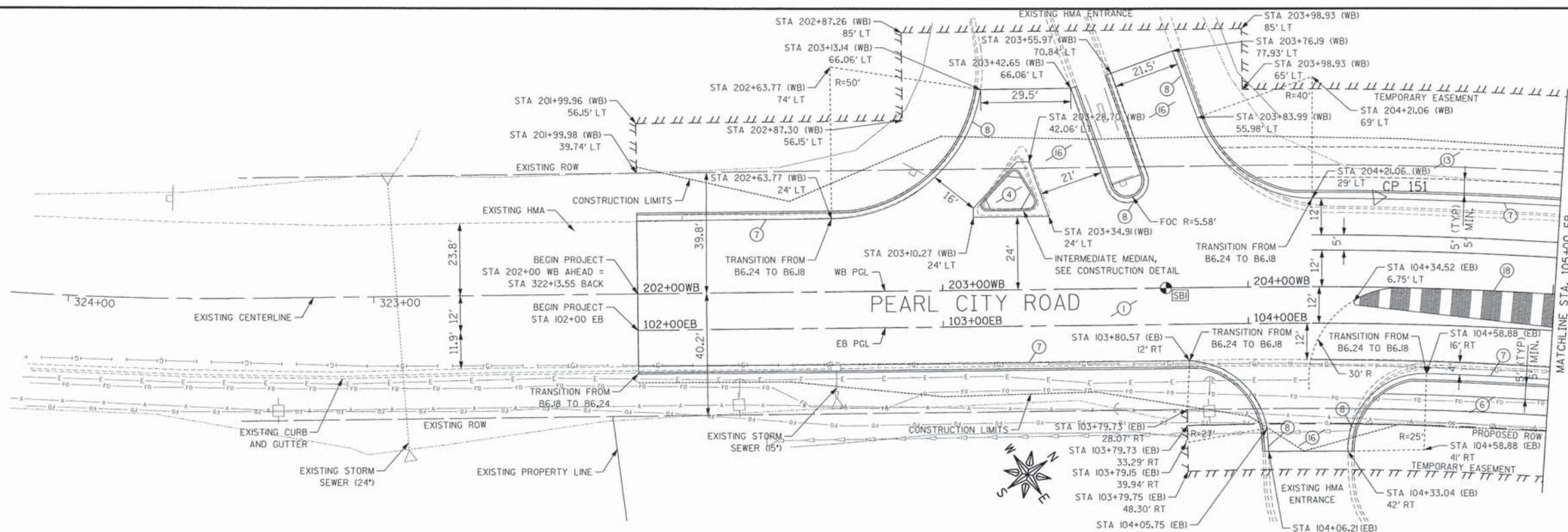
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
ALIGNMENTS

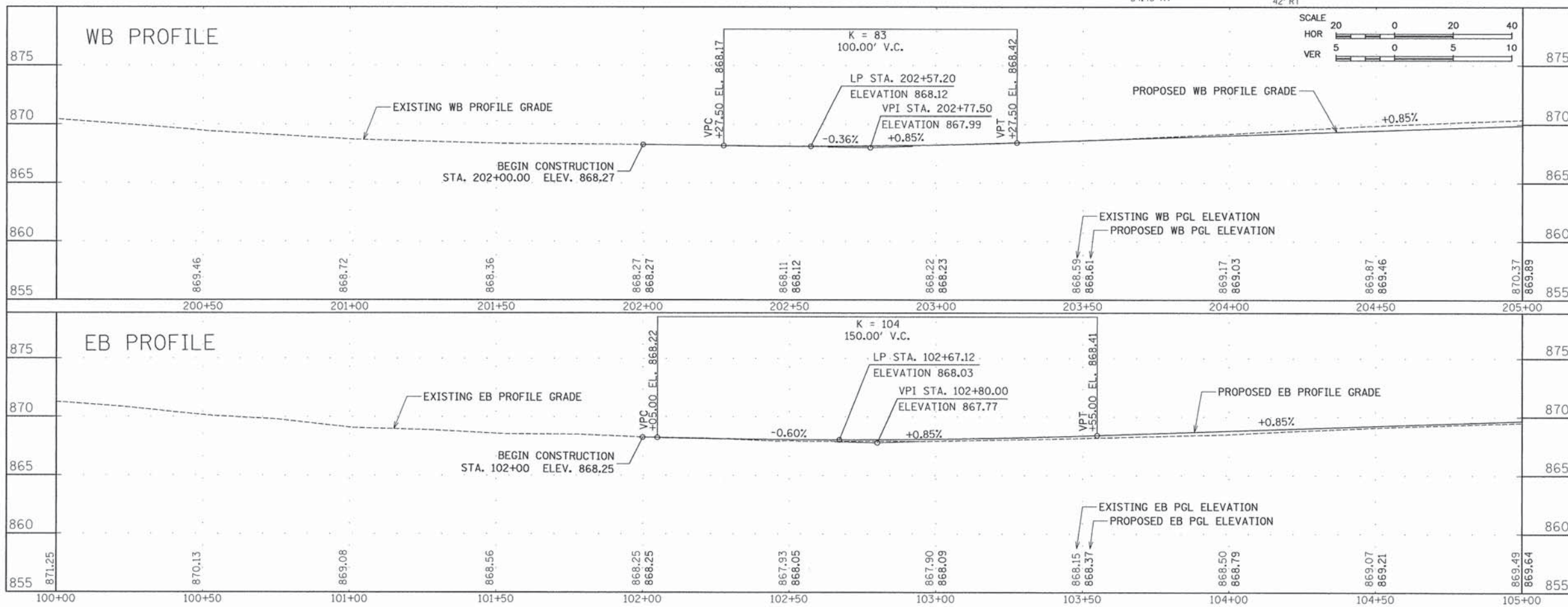
JOB NUMBER:  
12-471  
SHEET NUMBER:  
28 of 93



REVISIONS		
REV. NO.	DESCRIPTION	DATE



- KEYNOTES**
- HMA PAVEMENT, SEE TYPICAL SECTION.
  - PCC PAVEMENT, SEE TYPICAL SECTION.
  - STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - ASPHALT MEDIAN SURFACE. SEE TYPICAL SECTION.
  - AGGREGATE SHOULDER, TYPE A.
  - PCC SIDEWALK.
  - PCC CURB AND GUTTER, B6.24.
  - PCC CURB AND GUTTER, B6.18.
  - PCC CURB AND GUTTER, M3.24.
  - PCC CURB AND GUTTER, B6.12.
  - DETECTABLE WARNINGS.
  - FUTURE SIDEWALK.
  - FUTURE SHARED-USE PATH.
  - DEPRESSED CURB AND GUTTER, TYP.
  - TEMPORARY HMA ENTRANCE.
  - HMA ENTRANCE.
  - TIP-OUT CURB.
  - CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
151	2045494.445	2431255.138	871.434

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

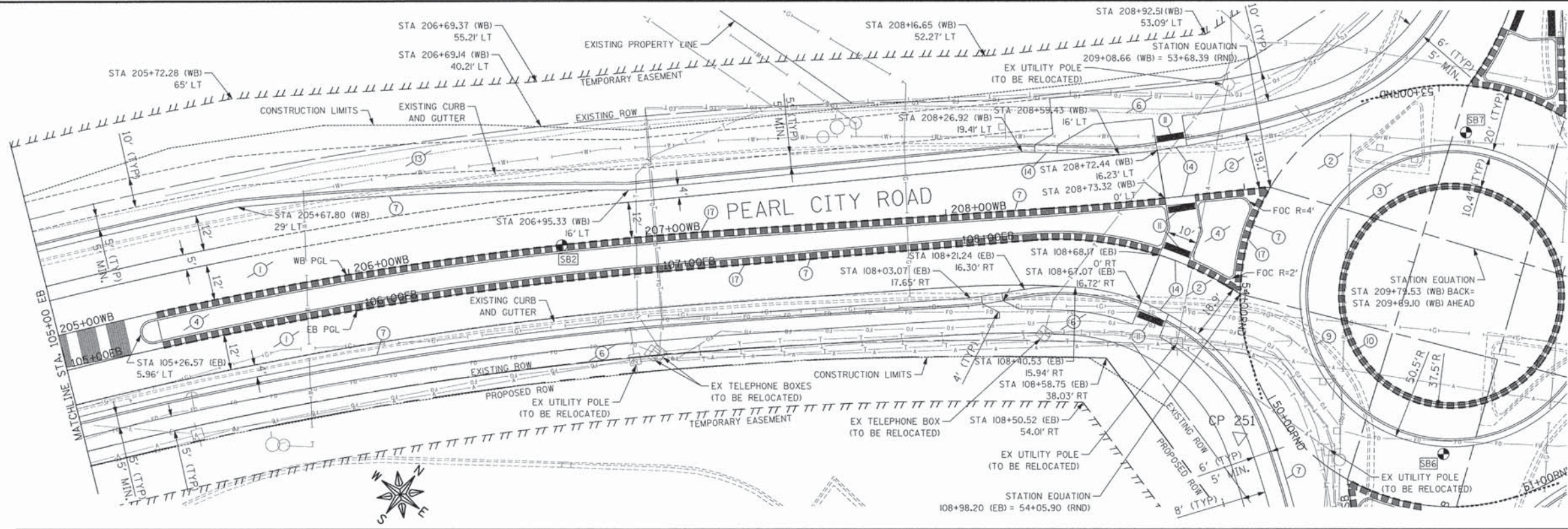
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

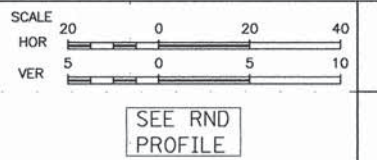
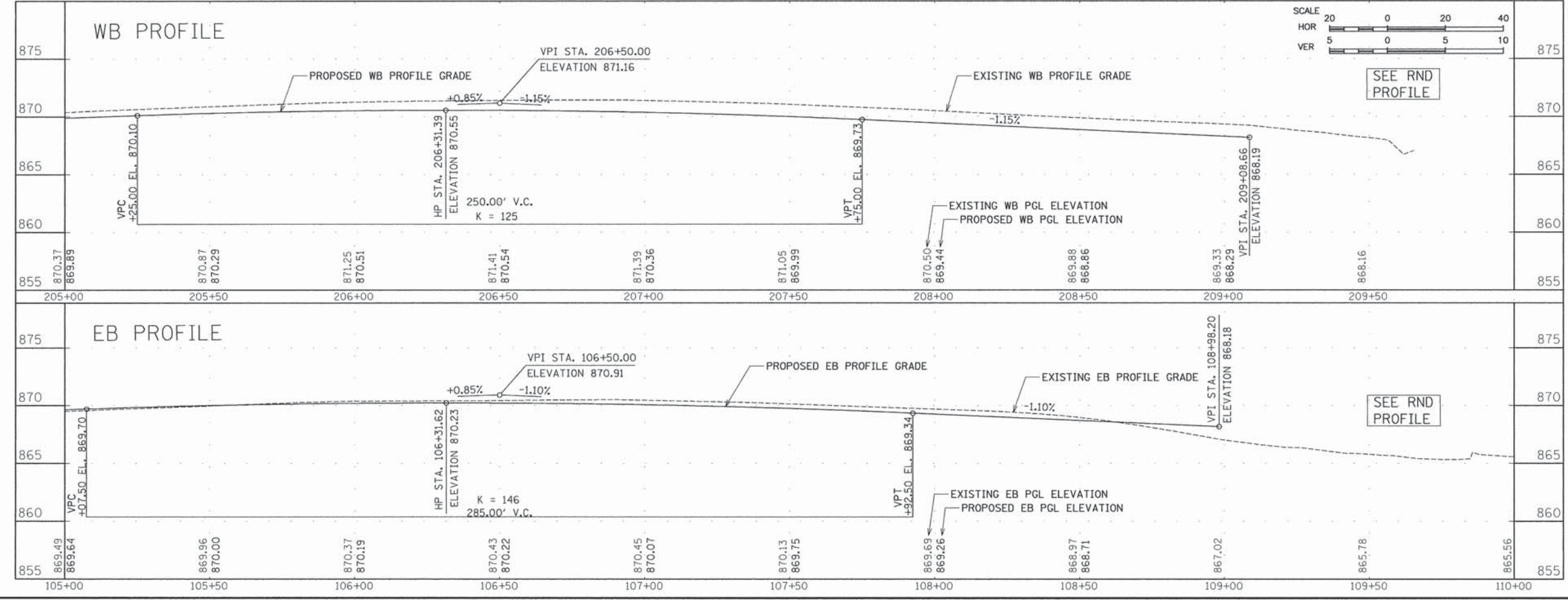
DRAWING:  
PEARL CITY ROAD EB  
PLAN AND PROFILE  
STA 100+00 TO STA 105+00

JOB NUMBER:  
12-471

SHEET NUMBER:  
30 of 93



- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE. SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
251	2045734.923	2431648.930	867.382

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

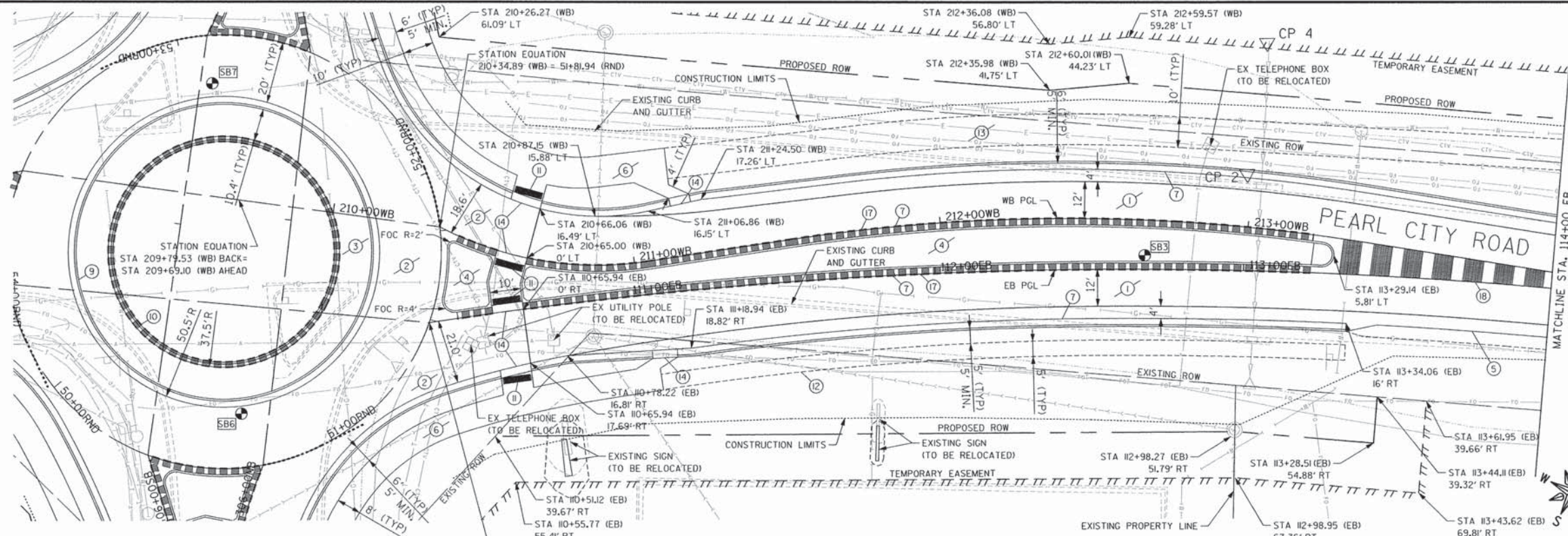
REVISIONS		DATE
REV. NO.	DESCRIPTION	

DRAWING:  
PEARL CITY ROAD EB  
PLAN AND PROFILE  
STA 105+00 TO STA 110+00

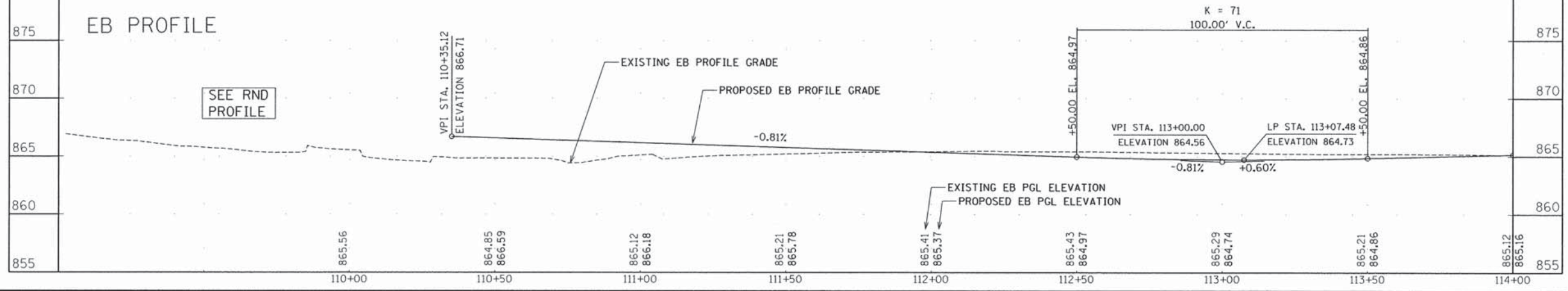
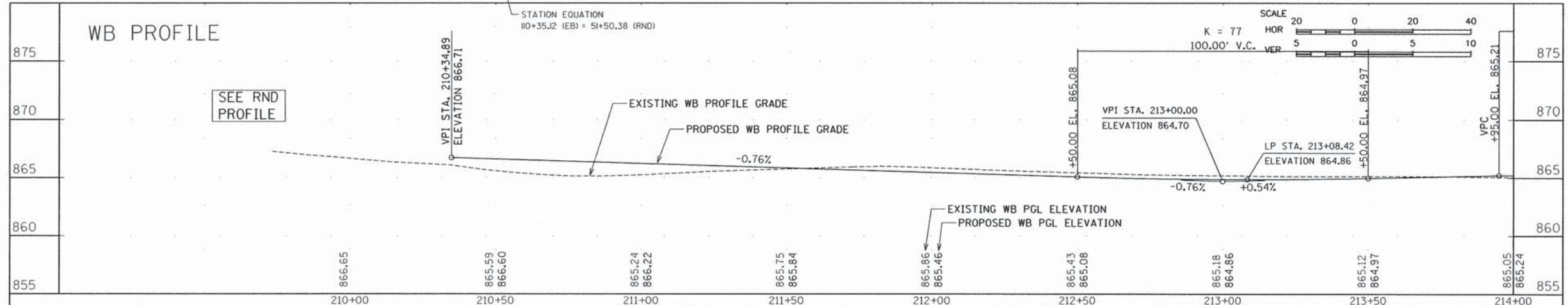
JOB NUMBER:  
12-471

SHEET NUMBER:  
31 of 93

G:\northeast\2012\12-471\plan set\12-471-31-pb-wb.dgn



- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE, SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
2	2045994.234	2431957.264	865.222
4	2046034.882	2431942.891	863.618

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

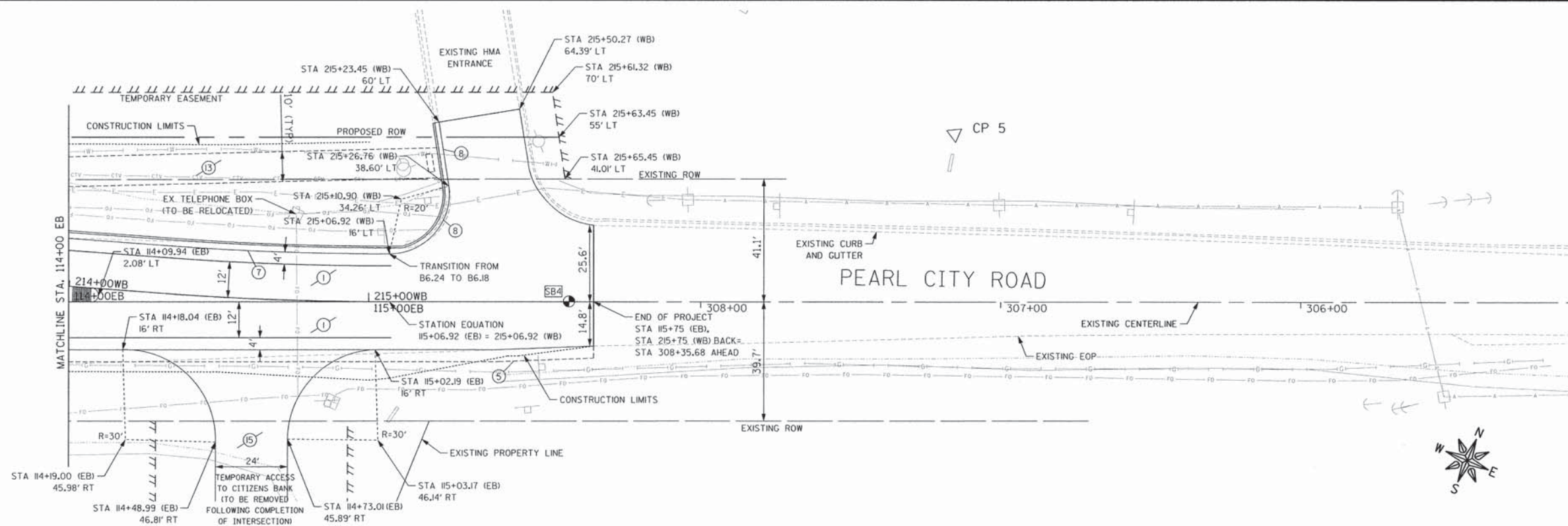
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
PLAN AND PROFILE  
STA 110+00 TO STA 115+00

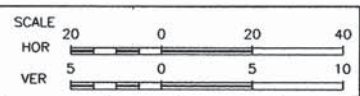
JOB NUMBER:  
12-471

SHEET NUMBER:  
32 of 93

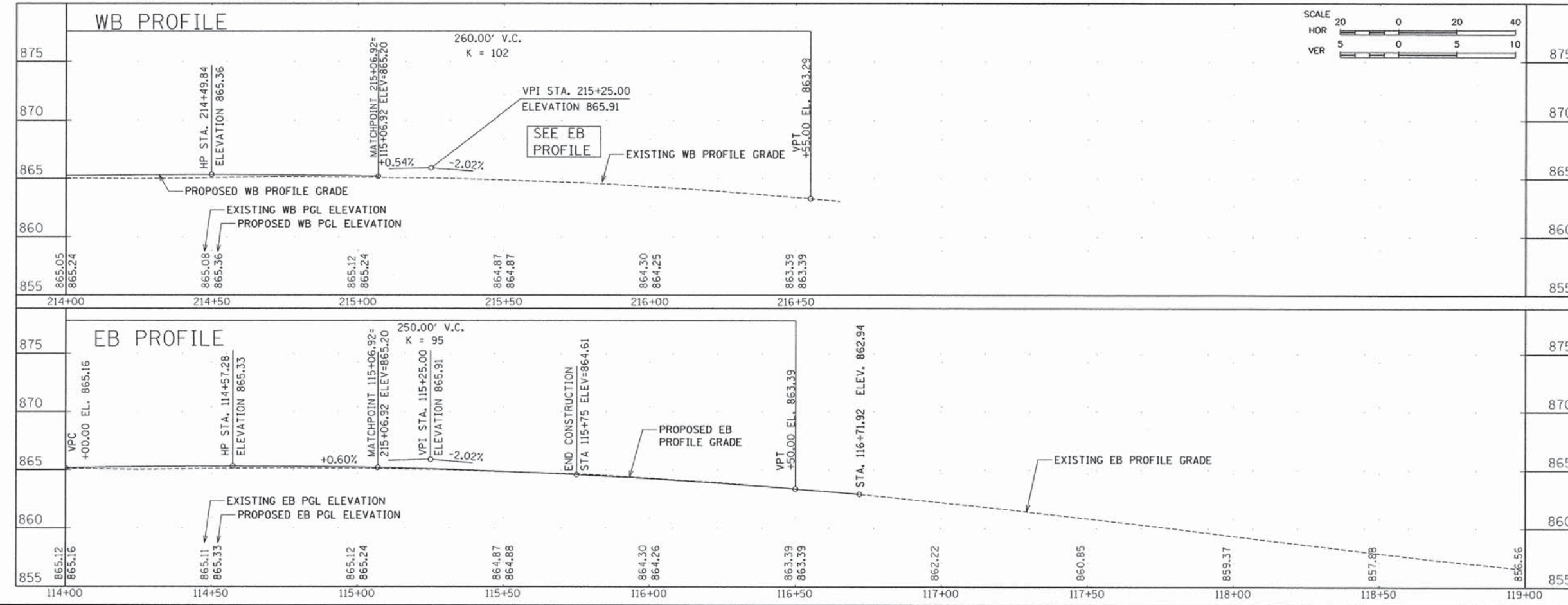




- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE, SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
5	2046177.156	2432310.215	865.563



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

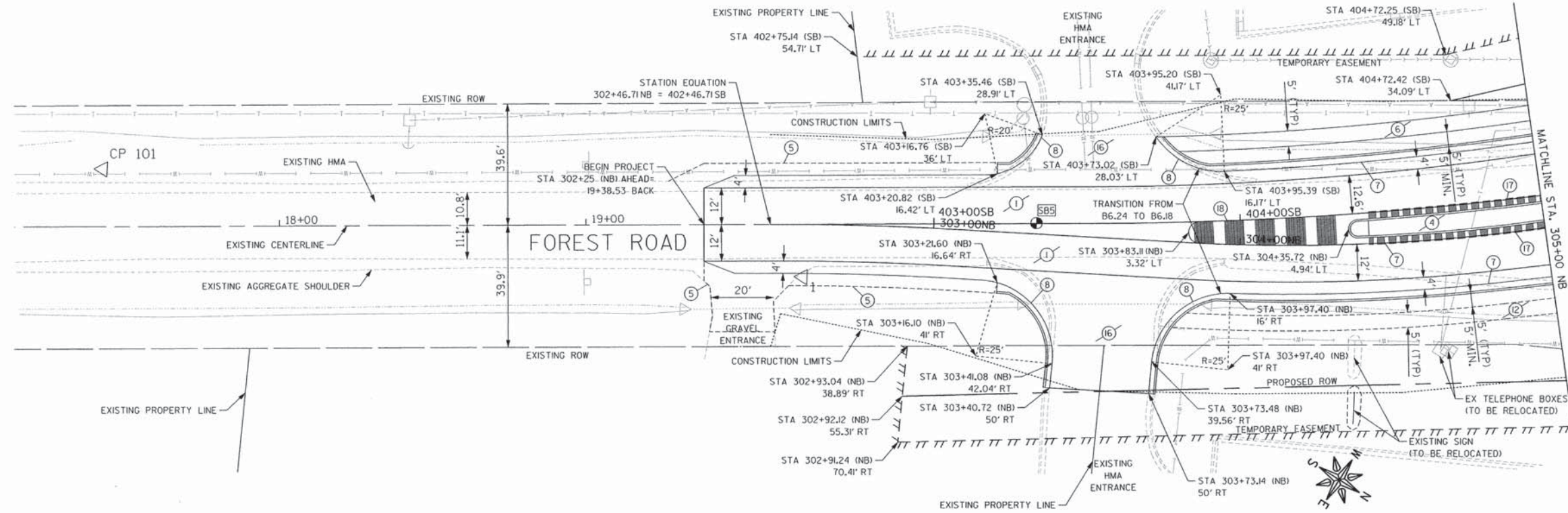
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
PLAN AND PROFILE  
STA 115+00 TO STA 120+00

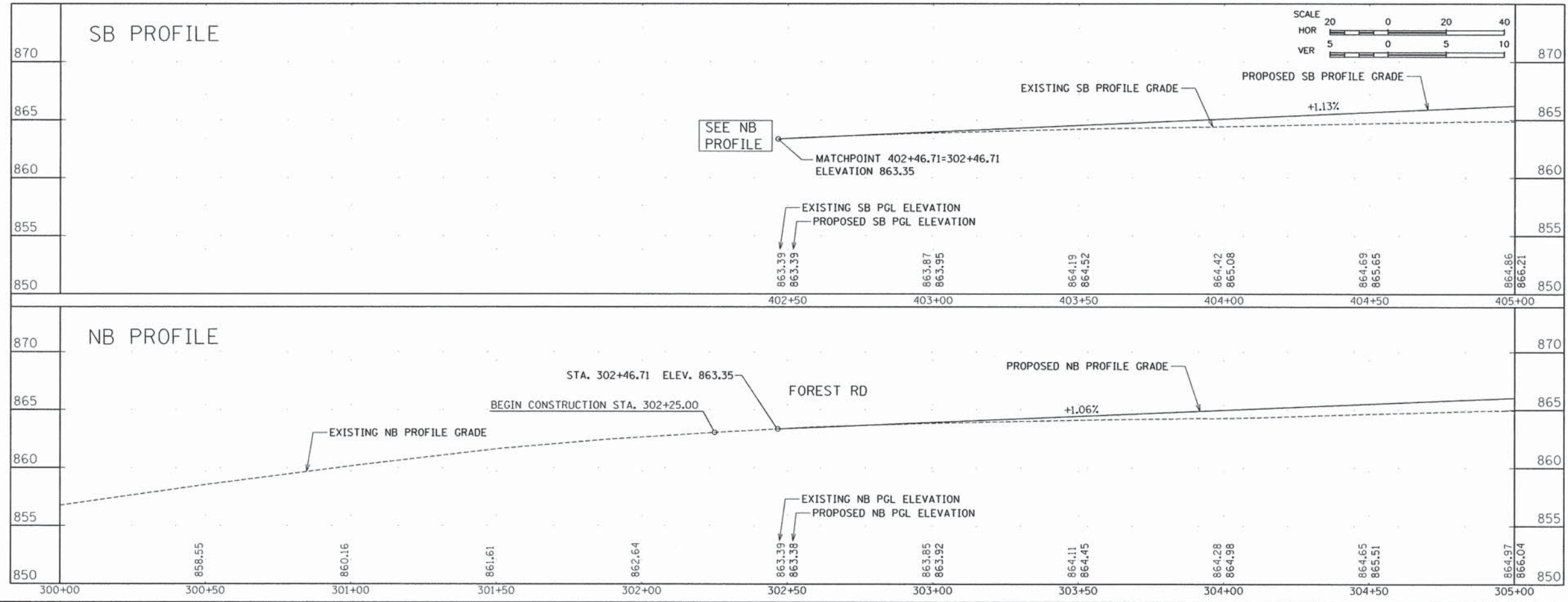
JOB NUMBER:  
12-471

SHEET NUMBER:  
33 of 93



- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE. SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.

CP	NORTHING	EASTING	ELEVATION
101	2045251.231	2432015.763	857.306



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-00325

ILLINOIS  
IOWA  
WISCONSIN

**OWNER/DEVELOPER:**  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

**PROJECT AND LOCATION:**  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

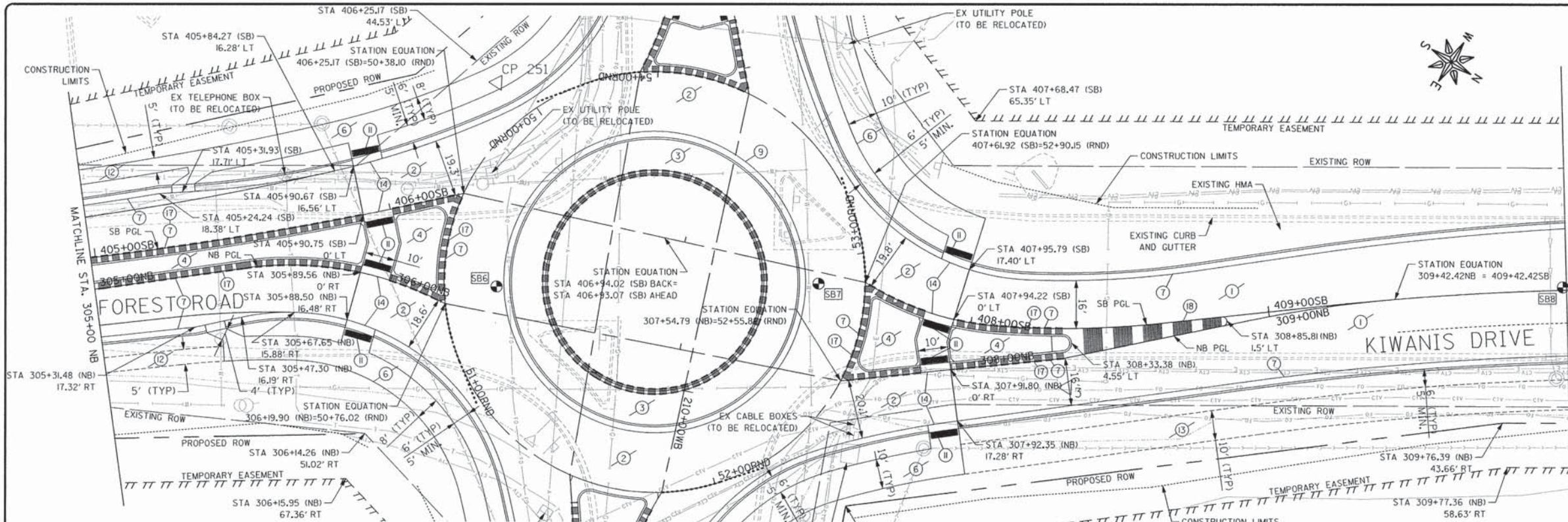
**DRAWN BY:** YG  
**APPROVED BY:** JD  
**DATE:** 01/21/13  
**SCALE:** AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

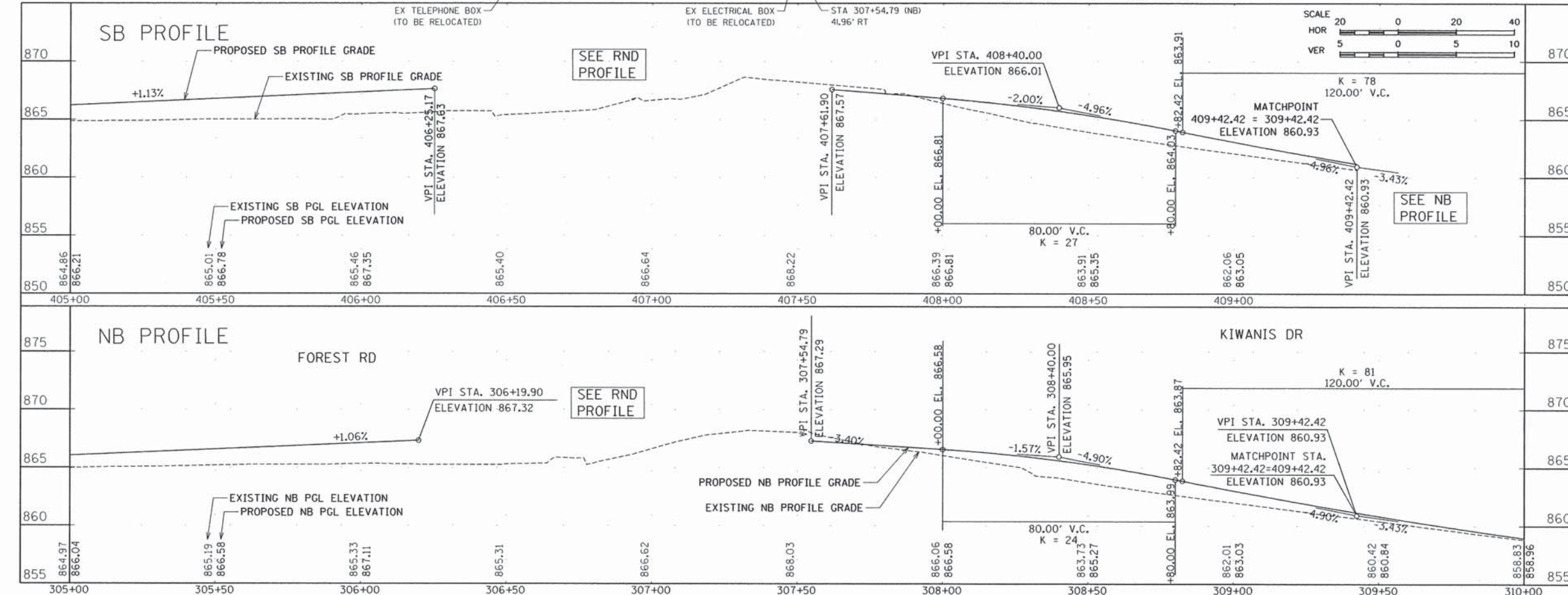
**DRAWING:**  
FOREST ROAD NB  
PLAN AND PROFILE  
STA 300+00 TO STA 305+00

**JOB NUMBER:**  
12-471

**SHEET NUMBER:**  
34 of 93



- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE. SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.
- NOTES**
- ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
251	2045734.923	2431648.930	867.382

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS IOWA WISCONSIN  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

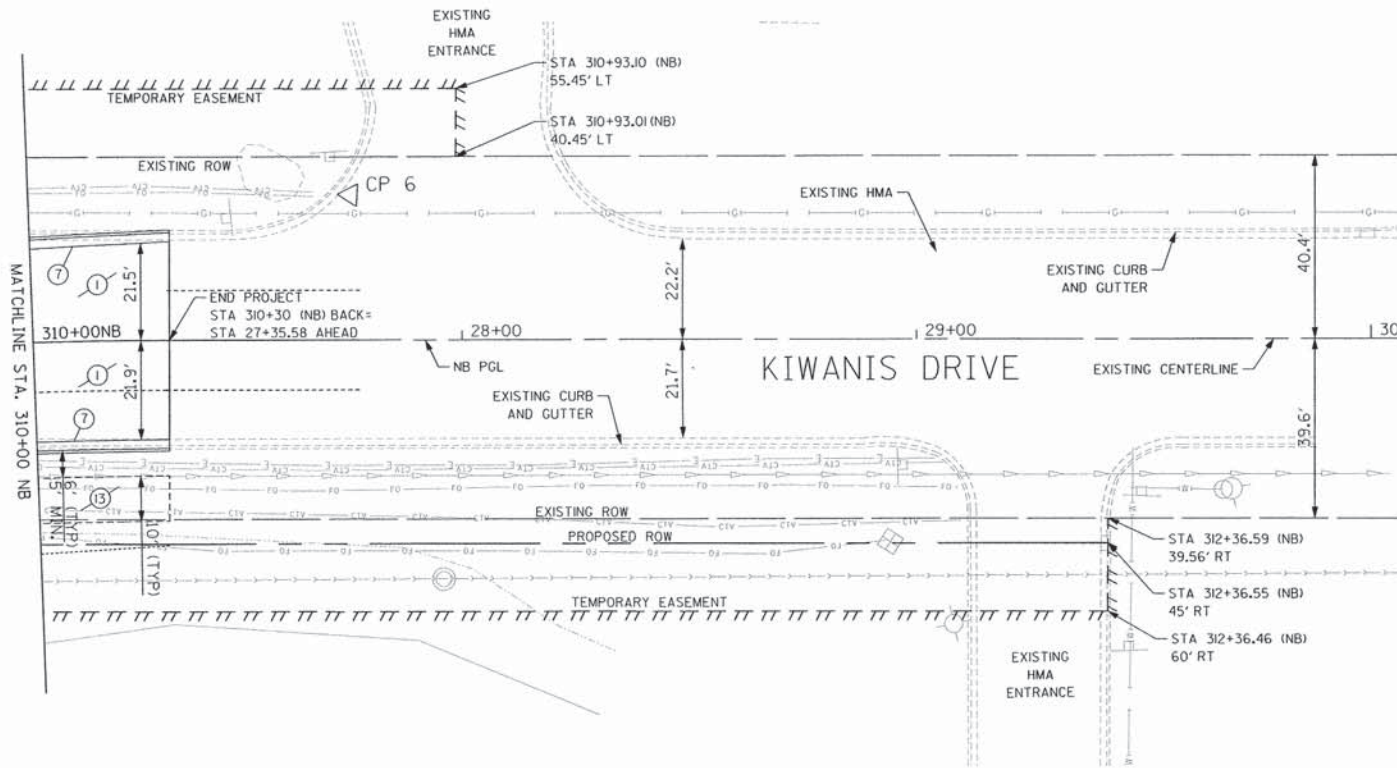
PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD NB  
PLAN AND PROFILE  
STA 305+00 TO STA 310+00

JOB NUMBER:  
12-471  
SHEET NUMBER:  
35 of 93

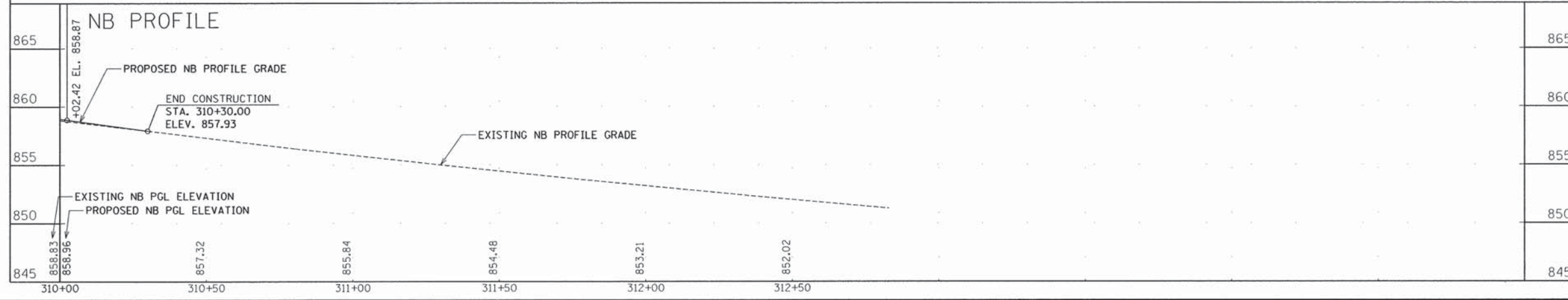
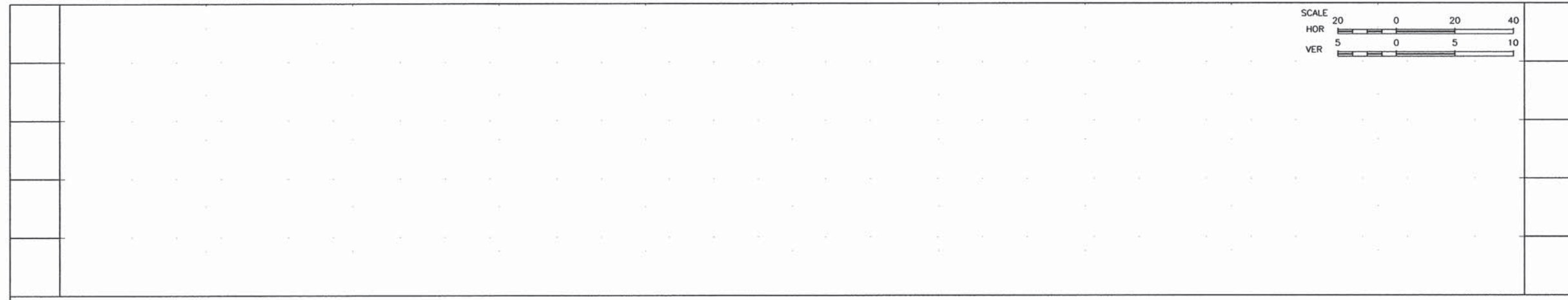
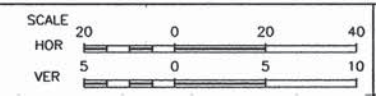


- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE, SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24,
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.

**NOTES**

ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.

CP	NORTHING	EASTING	ELEVATION
6	2046114.859	2431448.816	856.128



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

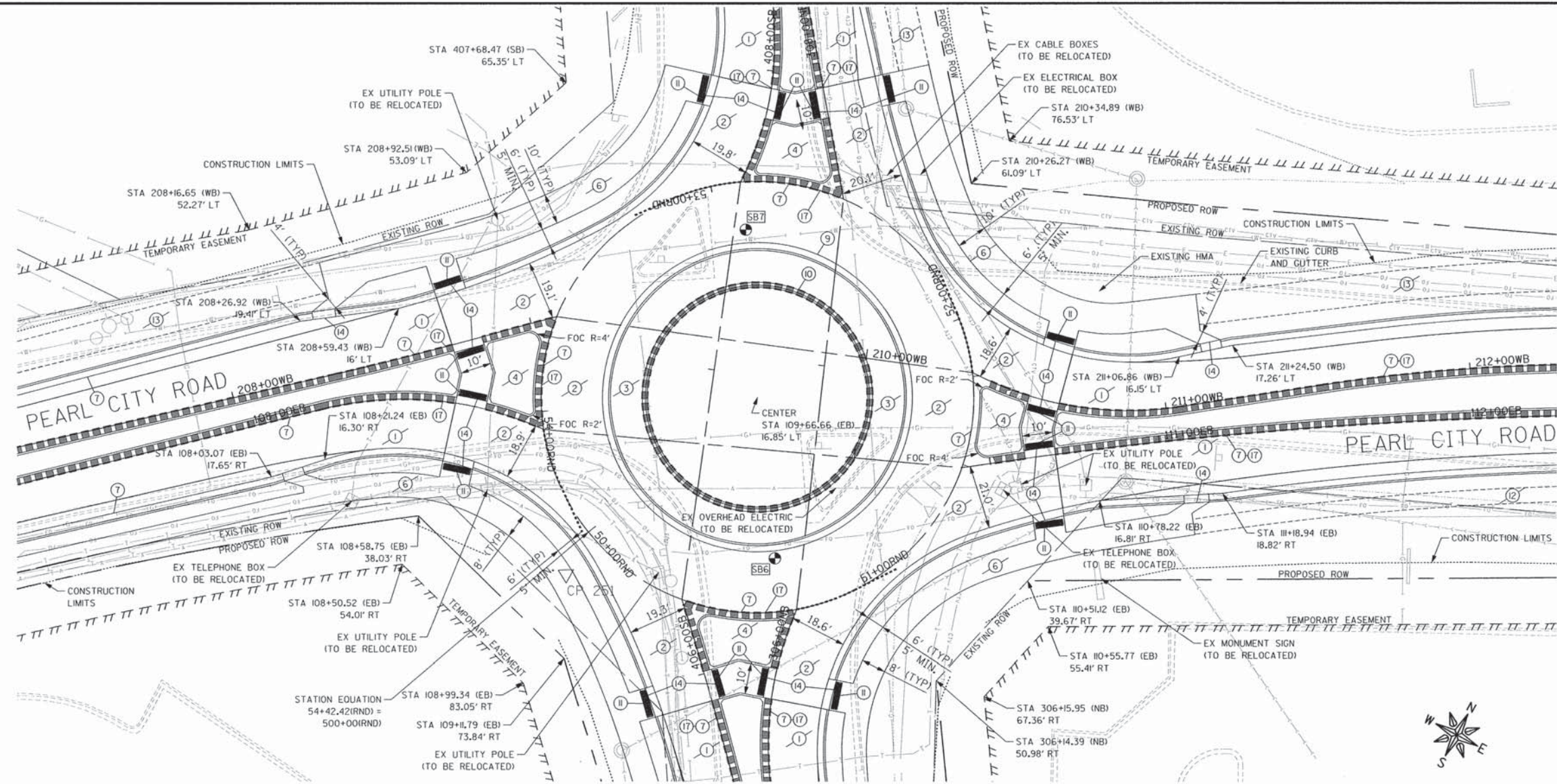
PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD NB  
PLAN AND PROFILE  
STA 310+00 TO STA 315+00

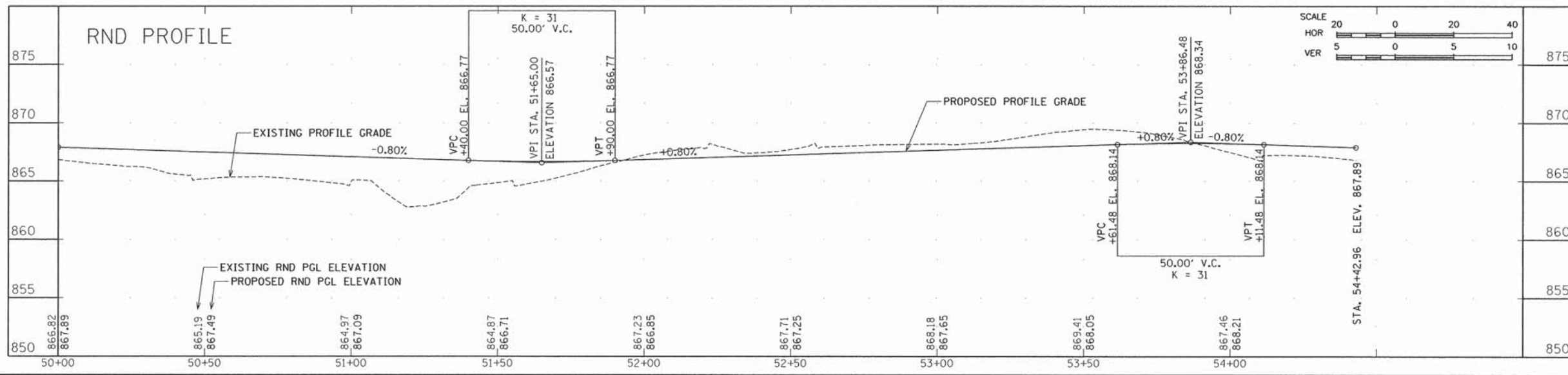
JOB NUMBER:  
12-471  
SHEET NUMBER:  
36 of 93



- KEYNOTES**
- 1 HMA PAVEMENT, SEE TYPICAL SECTION.
  - 2 PCC PAVEMENT, SEE TYPICAL SECTION.
  - 3 STAMPED COLORED CONCRETE, SEE TYPICAL SECTION.
  - 4 ASPHALT MEDIAN SURFACE, SEE TYPICAL SECTION.
  - 5 AGGREGATE SHOULDER, TYPE A.
  - 6 PCC SIDEWALK.
  - 7 PCC CURB AND GUTTER, B6.24.
  - 8 PCC CURB AND GUTTER, B6.18.
  - 9 PCC CURB AND GUTTER, M3.24.
  - 10 PCC CURB AND GUTTER, B6.12.
  - 11 DETECTABLE WARNINGS.
  - 12 FUTURE SIDEWALK.
  - 13 FUTURE SHARED-USE PATH.
  - 14 DEPRESSED CURB AND GUTTER, TYP.
  - 15 TEMPORARY HMA ENTRANCE.
  - 16 HMA ENTRANCE.
  - 17 TIP-OUT CURB.
  - 18 CORRUGATED MEDIAN.

**NOTES**

ALL EXISTING PUBLIC UTILITIES TO BE RELOCATED OUTSIDE THE PROPOSED BACK OF CURB AND WITHIN ACQUIRED R.O.W.



CP	NORTHING	EASTING	ELEVATION
251	2045734.923	2431648.930	867.382

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

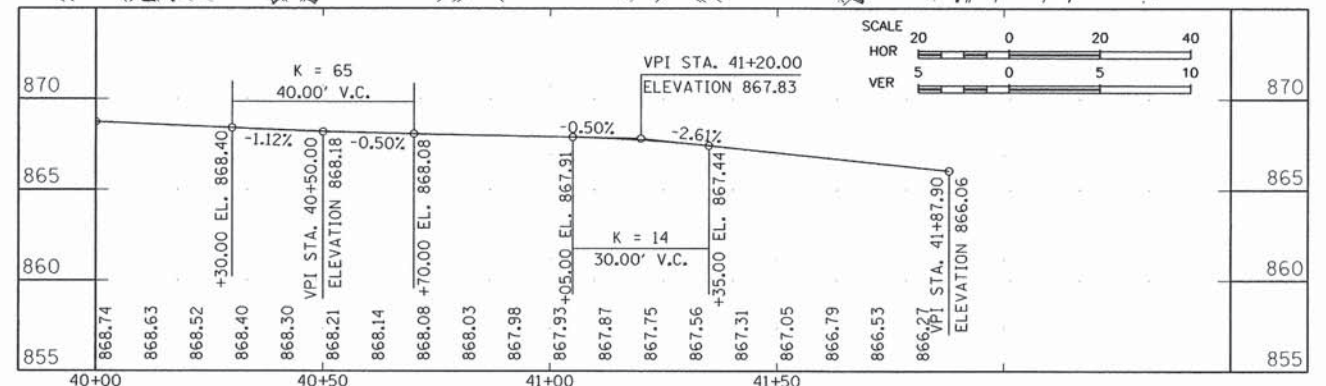
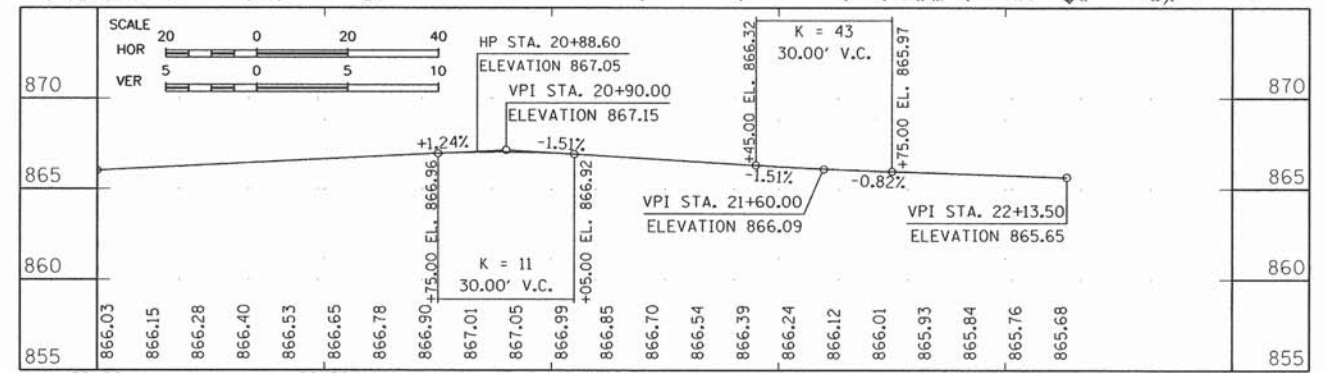
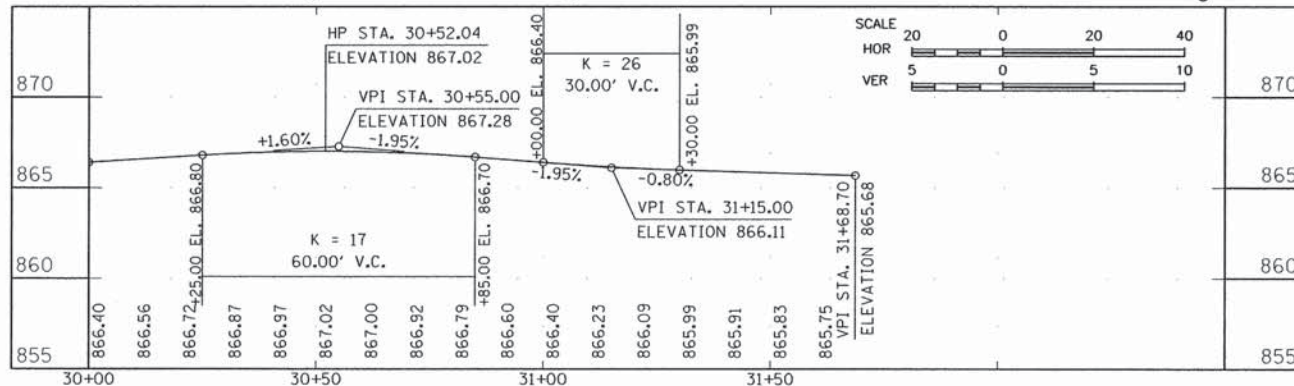
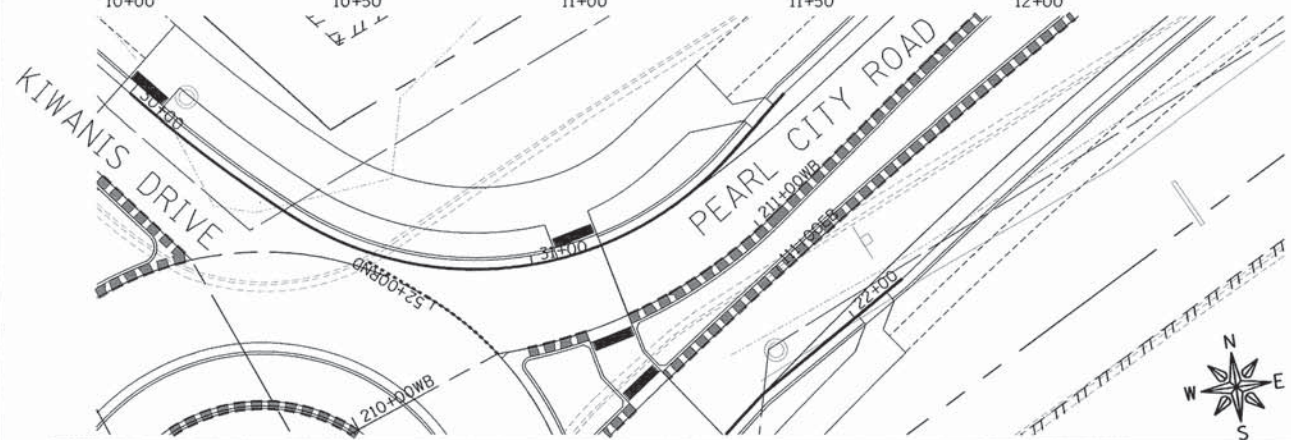
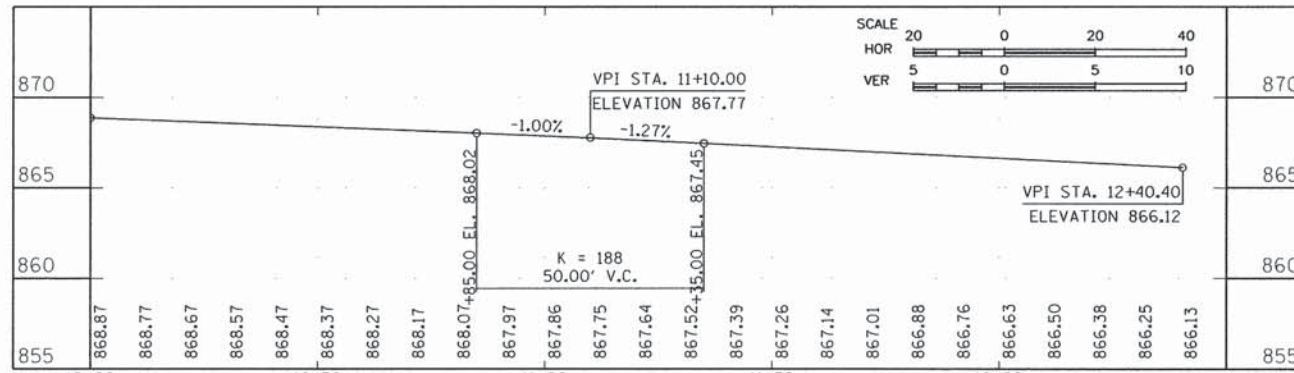
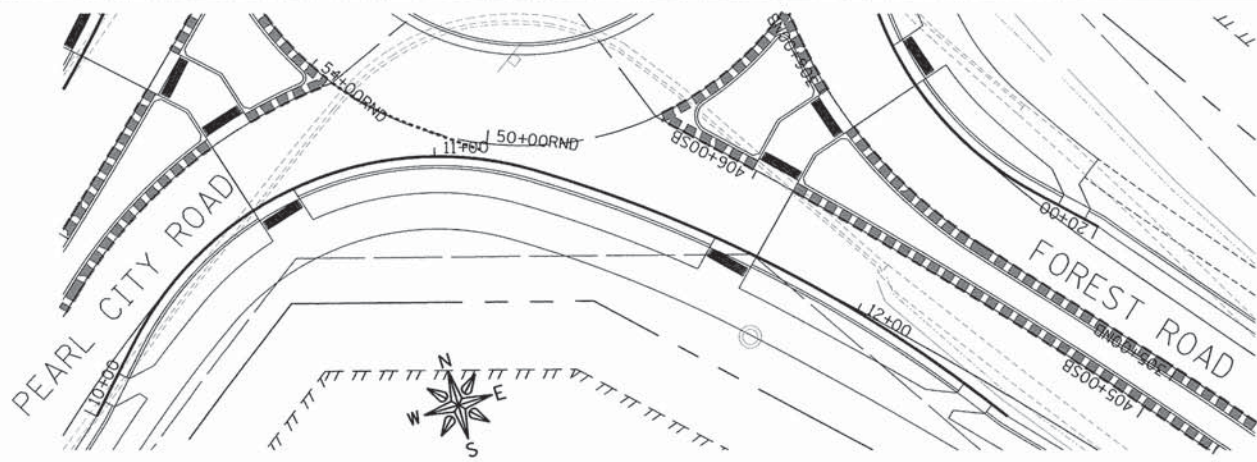
PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

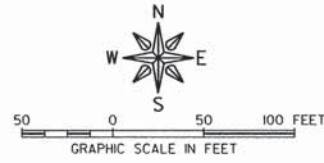
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
ROUNDBOUT  
PLAN AND PROFILE  
STA 50+00 TO STA 55+00

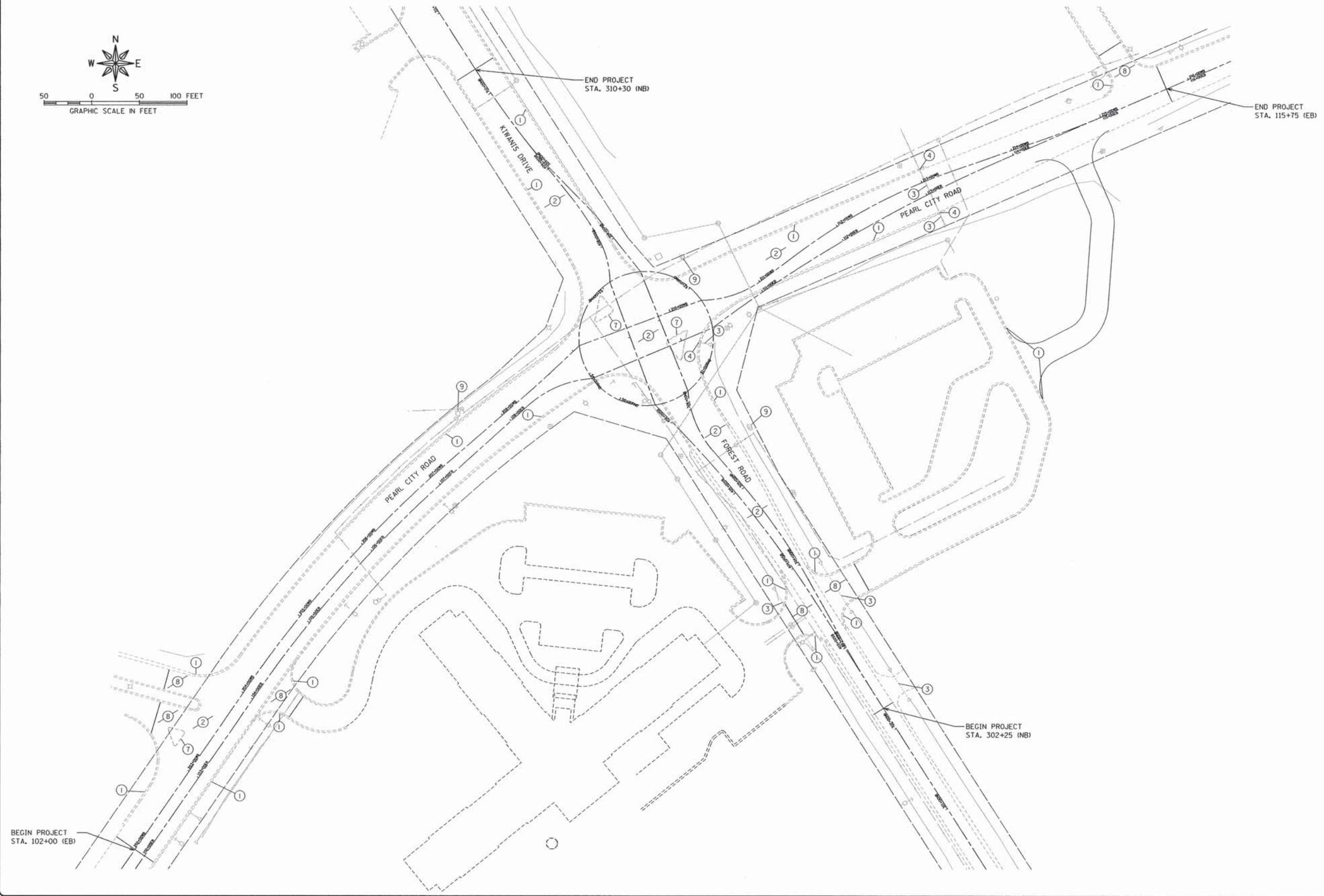
JOB NUMBER:  
12-471  
SHEET NUMBER:  
37 of 93



REVISIONS		
REV. NO.	DESCRIPTION	DATE



- KEYNOTES**
- 1 REMOVE COMBINATION CURB AND GUTTER.
  - 2 REMOVE HMA PAVEMENT.
  - 3 REMOVE STORM SEWER.
  - 4 REMOVE INLET.
  - 5 REMOVE MANHOLE.
  - 6 REMOVE SANITARY SEWER.
  - 7 CONCRETE MEDIAN REMOVAL.
  - 8 DRIVEWAY PAVEMENT REMOVAL.
  - 9 REMOVE FIRE HYDRANT



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

**OWNER/DEVELOPER:**  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

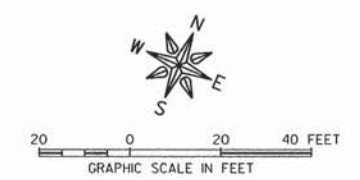
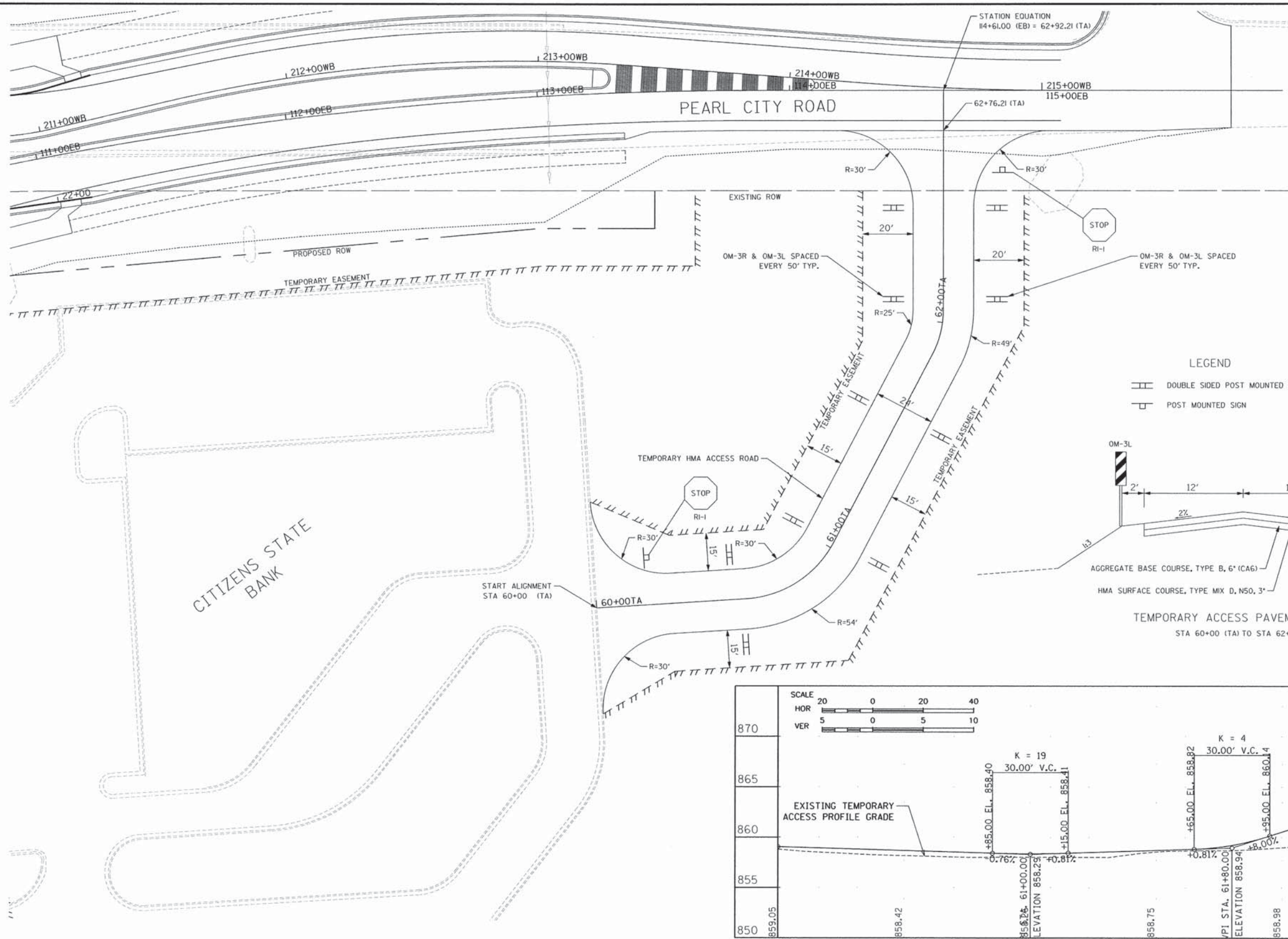
**PROJECT AND LOCATION:**  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

**DRAWN BY:** YG  
**APPROVED BY:** JD  
**DATE:** 01/21/13  
**SCALE:** AS NOTED

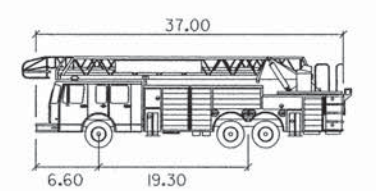
REVISIONS		
REV. NO.	DESCRIPTION	DATE

**DRAWING:**  
 REMOVAL PLAN  
G:\vectors\station\2012\12-471\plan set\12-471-12\_removal\_plan.dwg

**JOB NUMBER:**  
 12-471  
**SHEET NUMBER:**  
 39 of 93



NOTE:  
TEMPORARY ACCESS DESIGN  
VEHICLE: FIRE TRUCK

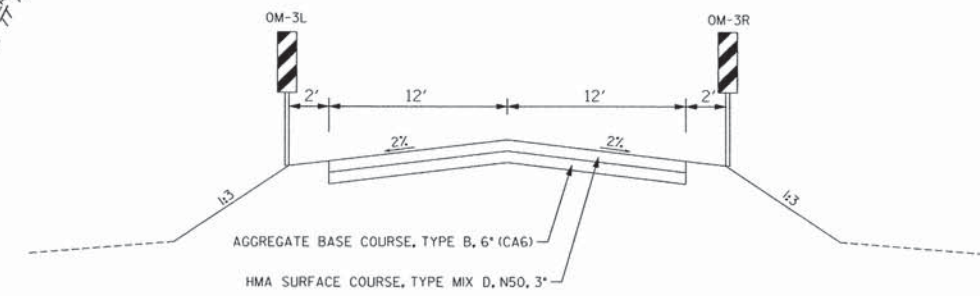


**FIRE TRUCK**  
NTS

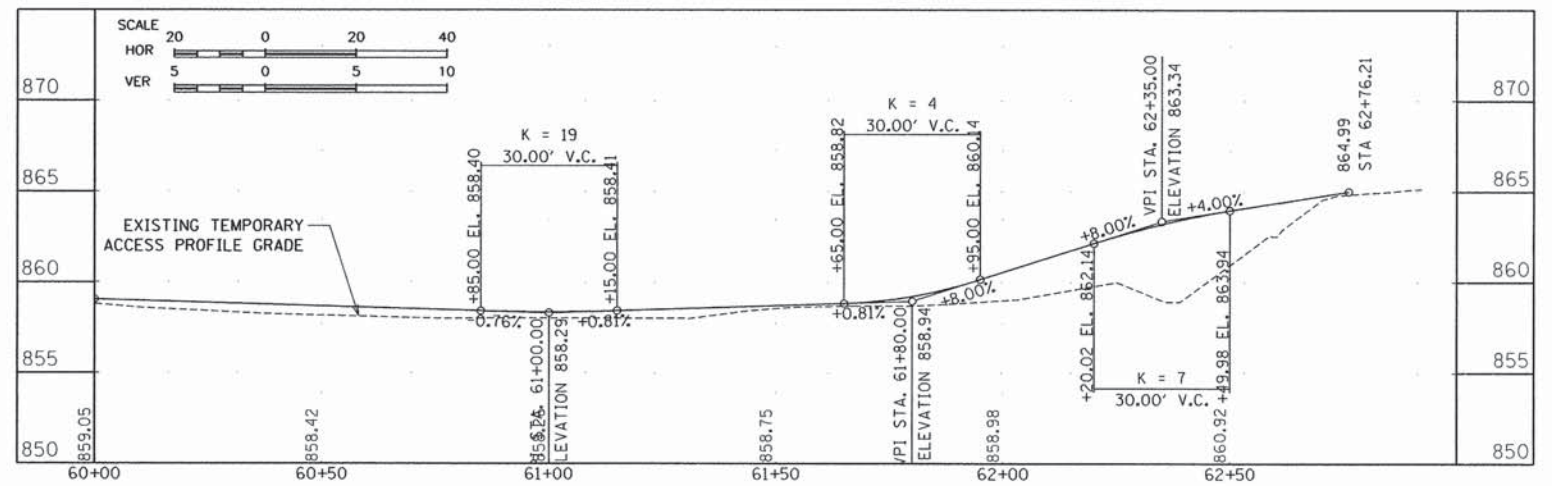
feet  
Width : 8.20  
Track : 8.20  
Lock to Lock Time : 6.00  
Steering Angle : 30.00

**LEGEND**

▬▬▬ DOUBLE SIDED POST MOUNTED SIGN  
□ POST MOUNTED SIGN



**TEMPORARY ACCESS PAVEMENT DETAIL**  
STA 60+00 (TA) TO STA 62+76.21 (TA)



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

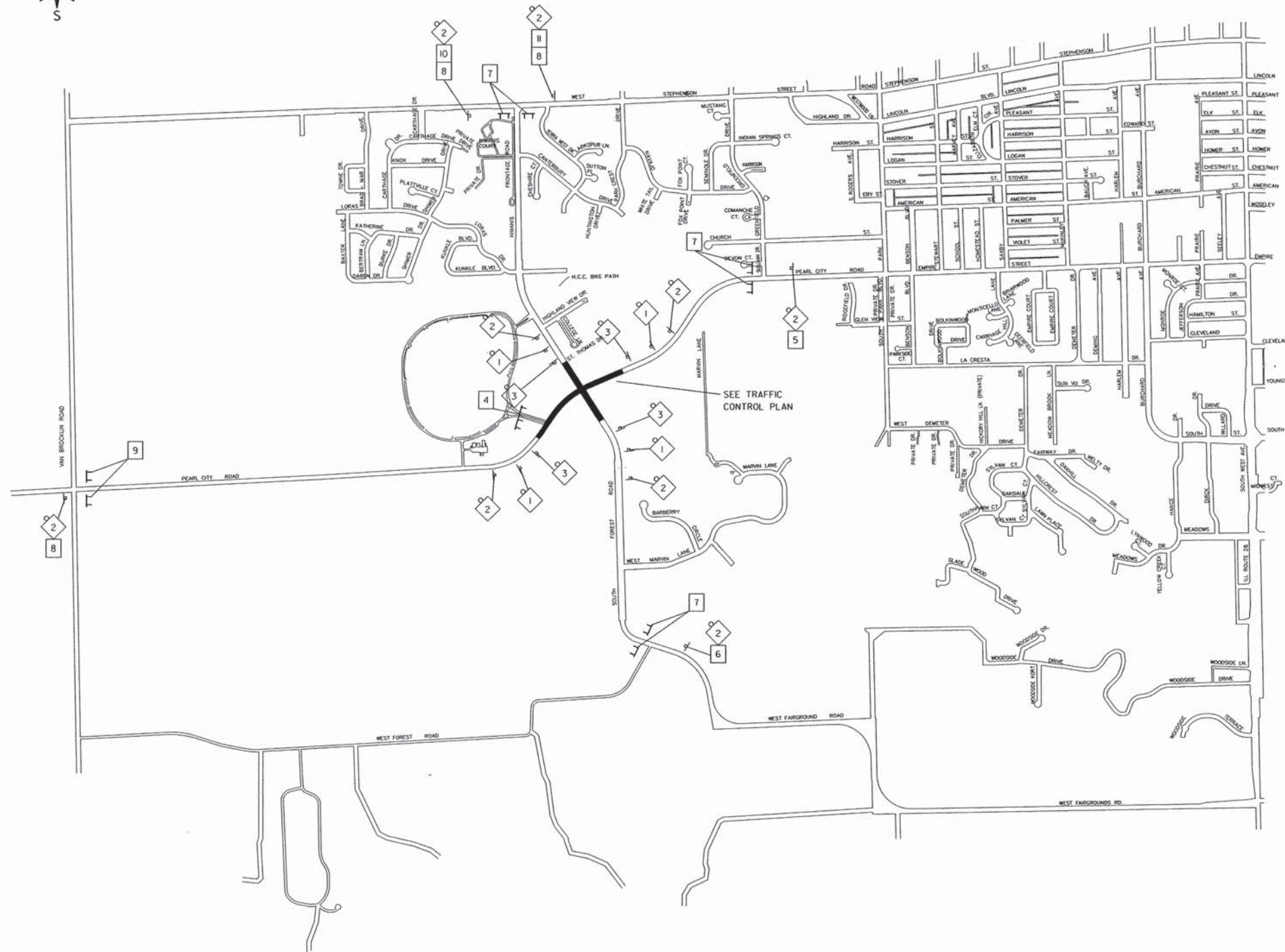
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
**TEMPORARY ACCESS PLAN**  
G:\mcrstation\2012-12-47\plan set\12-47-11 temp access plan.dgn

JOB NUMBER:  
12-471

SHEET NUMBER:  
40 of 93










**SCHEDULE OF QUANTITIES (EXTERNAL SITE)**

SIGN NO.	SIGN TYPE
1	ROAD CLOSED 1000 FT W20-3 (0) 48
2	ROAD CLOSED AHEAD W20-3 (0) 48
3	BARRICADE AHEAD W21-1100 (0) 48
4	ROAD CLOSED RII-2-4830
5	NO ACCESS TO COLLEGE SPECIAL 4824 6" C LETTERS
6	NO ACCESS TO PEARL CITY RD SPECIAL 6024 6" C LETTERS
7	ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY RII-3A-6030
8	OPEN TO COLLEGE SPECIAL 4824 6" C LETTERS
9	ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY RII-3A-6030
10	← WI-6R (0) 3618
11	← WI-6R (0) 3618

**LEGEND**

-  POST MOUNTED SIGN
-  48"X48" CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
-  OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
-  TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
-  ROADWAY SECTION TO BE CLOSED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

CLOSURE GENERAL NOTES

1. THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE CLOSURE NEEDS TO BE IN EFFECT.
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE CLOSURE IS TO BE IN EFFECT, THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
3. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE CLOSURE IS TO BE IN EFFECT, THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
4. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
5. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE CLOSURE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
6. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL EXTEND THE FULL WIDTH OF THE ROADWAY FROM SHOULDER TO SHOULDER.
7. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:

STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:

ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PEARL CITY ROAD  
CLOSURE PLAN

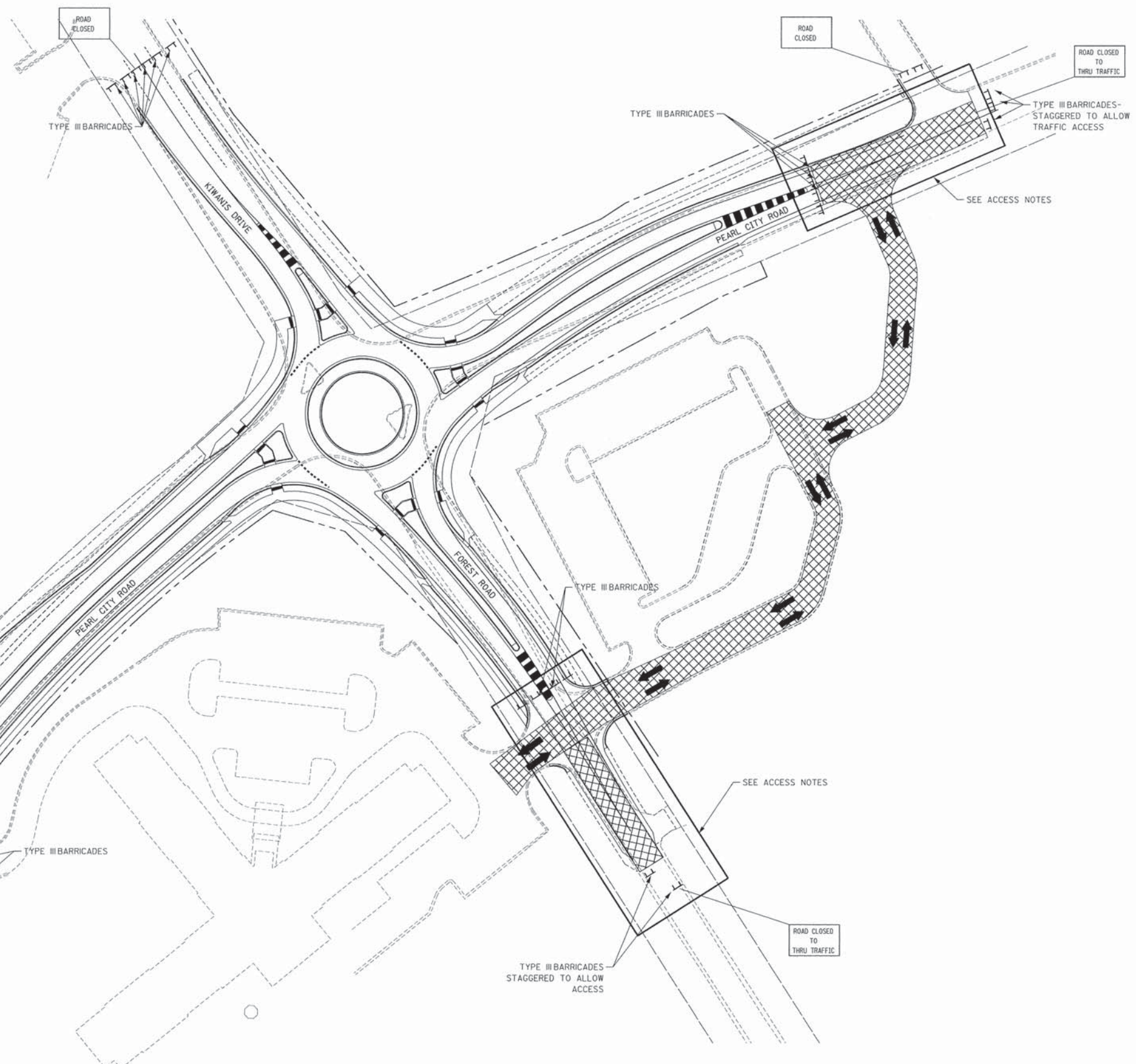
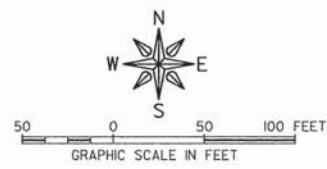
G:\villcrest\station\2012\12-471\plan set\12-471-13 closure plan.dgn

JOB NUMBER:

12-471

SHEET NUMBER:

42 of 93



- LEGEND**
- MAINTAIN ACCESS THROUGHOUT CONSTRUCTION
  - DIRECTION OF TRAFFIC
  - FLASHING LIGHTS SIGN MOUNTED
  - TYPE III BARRICADES WITH AMBER FLASHING LIGHTS
  - POST MOUNTED SIGN

**SCHEDULE OF QUANTITIES (INTERNAL SITE)**

SIGN NO.	ROAD CLOSED TO THRU TRAFFIC	SIGN TYPE
7		R11-4 6030
8		R11-2 4830

- ACCESS NOTES:**
1. CONTRACTORS MUST MAINTAIN A MINIMUM OF ONE 11' LANE THROUGHOUT CONSTRUCTION. FLAGGER IS REQUIRED DURING LANE CLOSURE.
  2. DURING NON-WORKING HOURS, TWO 11' LANES MUST BE MAINTAINED.
  3. NO EQUIPMENT/HAZARDS WHICH MAY LIMIT ACCESS OR VISIBILITY SHALL BE STORED IN THIS AREA.
  4. CONTRACTOR SHALL LIMIT VERTICAL GRADE DIFFERENTIALS TO 3 INCHES MAX.

SEE CLOSURE PLAN FOR TRAFFIC CONTROL AT HIGHLAND COMMUNITY COLLEGE CIRCLE

SEE ACCESS NOTES

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

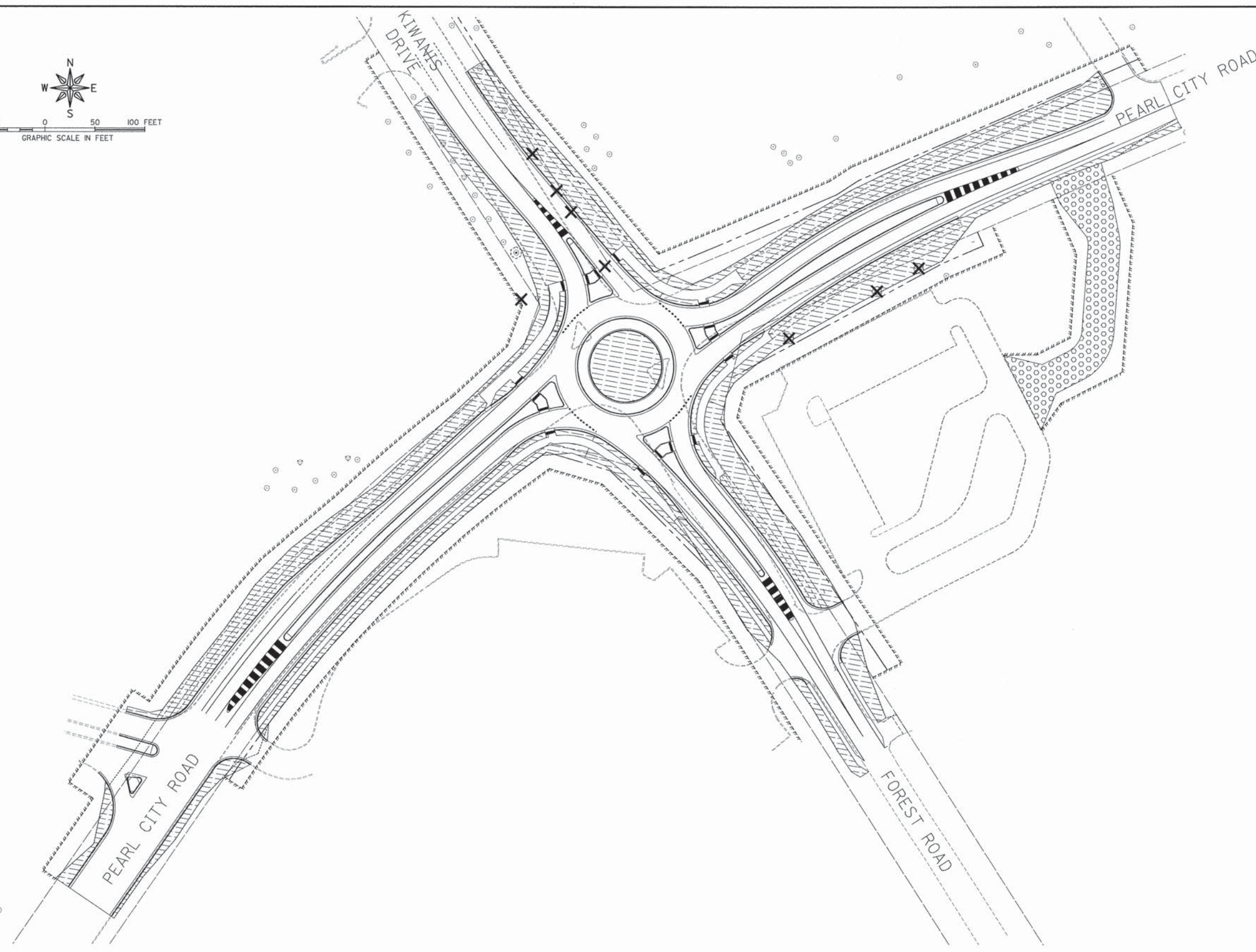
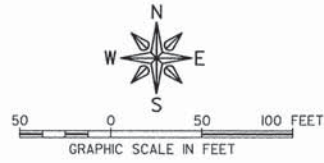
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
TRAFFIC CONTROL PLAN

JOB NUMBER:  
12-471

SHEET NUMBER:  
43 of 93

G:\mlorastation\2012\12-471\plan set\12-471-14 traffic-control-plan.dgn



- LEGEND**
- EXISTING TREE
  - TREE REMOVAL
  - TREE TRUNK PROTECTION
  - SEEDING, CLASS 1A WITH EROSION CONTROL BLANKET
  - SEEDING, CLASS 1B WITH EROSION CONTROL BLANKET
  - EXISTING ROW
  - PROPOSED ROW
  - PROPOSED TEMPORARY EASEMENT

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

**OWNER/DEVELOPER:**  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

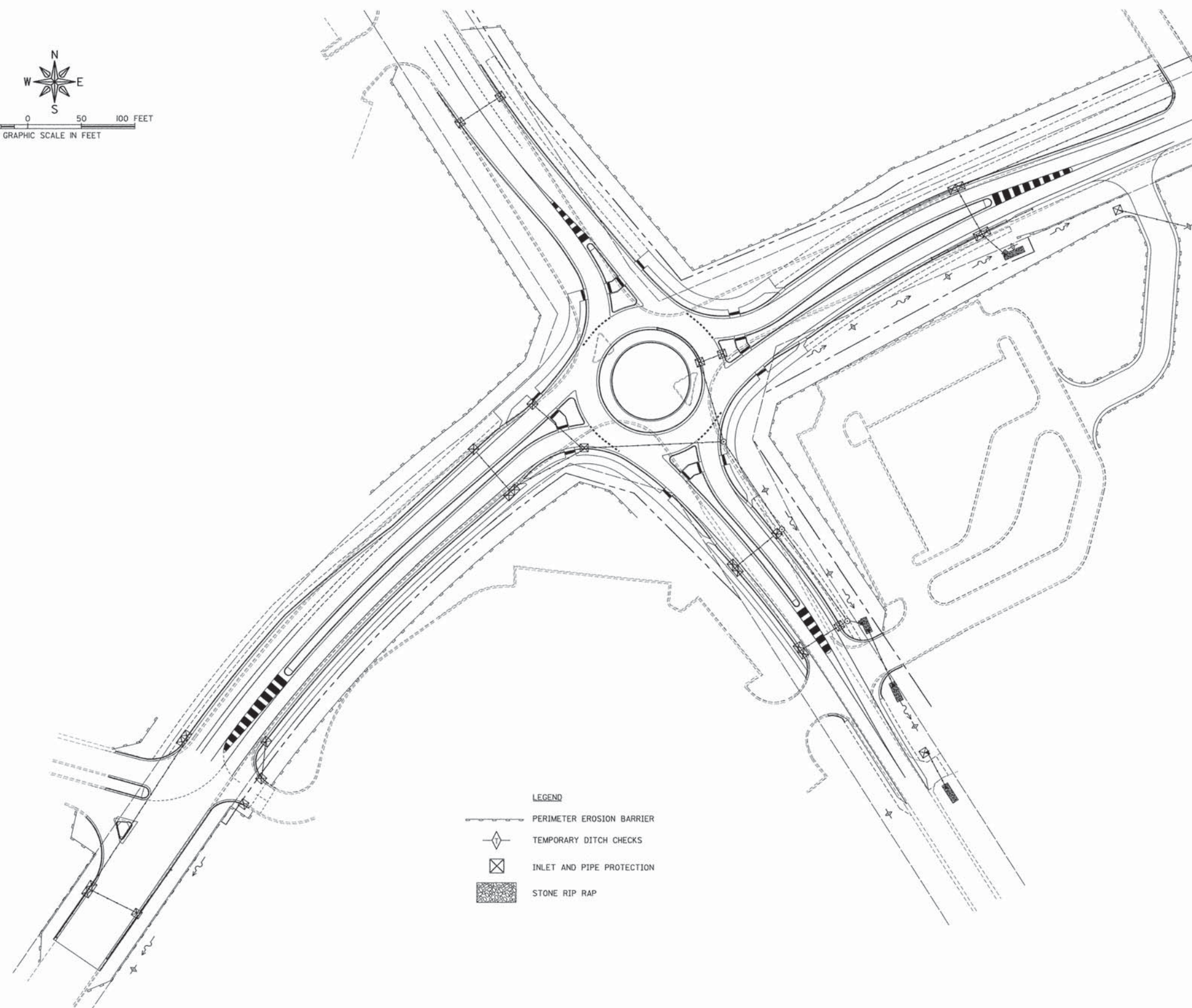
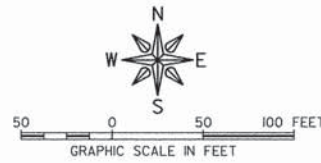
**PROJECT AND LOCATION:**  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

**DRAWN BY:** YG  
**APPROVED BY:** JD  
**DATE:** 01/21/13  
**SCALE:** NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

**DRAWING:**  
 PEARL CITY ROAD  
 LANDSCAPING PLAN  
G:\m\creation\2012\12-471\plan set\12-471-15 landscaping.dgn

**JOB NUMBER:**  
 12-471  
**SHEET NUMBER:**  
 44 of 93



- LEGEND**
- PERIMETER EROSION BARRIER
  - TEMPORARY DITCH CHECKS
  - INLET AND PIPE PROTECTION
  - STONE RIP RAP

**TEMPORARY EROSION CONTROL NOTES**

1. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO STRIPPING OF EXISTING VEGETATION.
2. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT.
3. NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH EROSION CONTROL PROTECTIVE MEASURES. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
4. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
5. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
6. MAINTENANCE AND REPAIR OF ALL EROSION CONTROL MEASURES SHALL BE PAID FOR AS MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS.
7. EROSION CONTROL MEASURES SHALL BE INSPECTED 24 HOURS AFTER ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION.
8. ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. AREAS THAT HAVE BEEN STRIPPED AND WILL NOT RECEIVE PERMANENT LANDSCAPING BEFORE THE END OF THE FALL SEEDING RESTRICTION SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING.
9. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
10. THE CONTRACTOR SHALL SURROUND ALL EARTH STOCKPILES WITH SILT FILTER FENCE, WHICH SHALL BE PAID FOR AS PERIMETER EROSION BARRIER.
11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA AND IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
12. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION.
13. ALL STORM SEWER FACILITIES WITH OPEN LIDS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED OR FILTERED. ALL PROPOSED DRAINAGE STRUCTURES THAT HAVE OPEN LIDS IN PAVEMENT SHALL BE COVERED WITH INLET FILTERS.
14. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THAT TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND THE AREAS DAMAGED BY THE PERIMETER EROSION BARRIER INSTALLATION SHALL BE RESTORED.
15. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 1V:3H, AND APPROVED BY THE ENGINEER, SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
16. ALL STORM SEWER THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
17. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
18. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
19. ANY SEDIMENT OR SOIL REACHING BEYOND THE PROJECT LIMITS SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
20. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF STEPHENSON COUNTY.
21. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
22. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
23. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE STORM SEWER OR DITCH SYSTEMS.

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

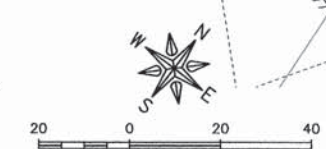
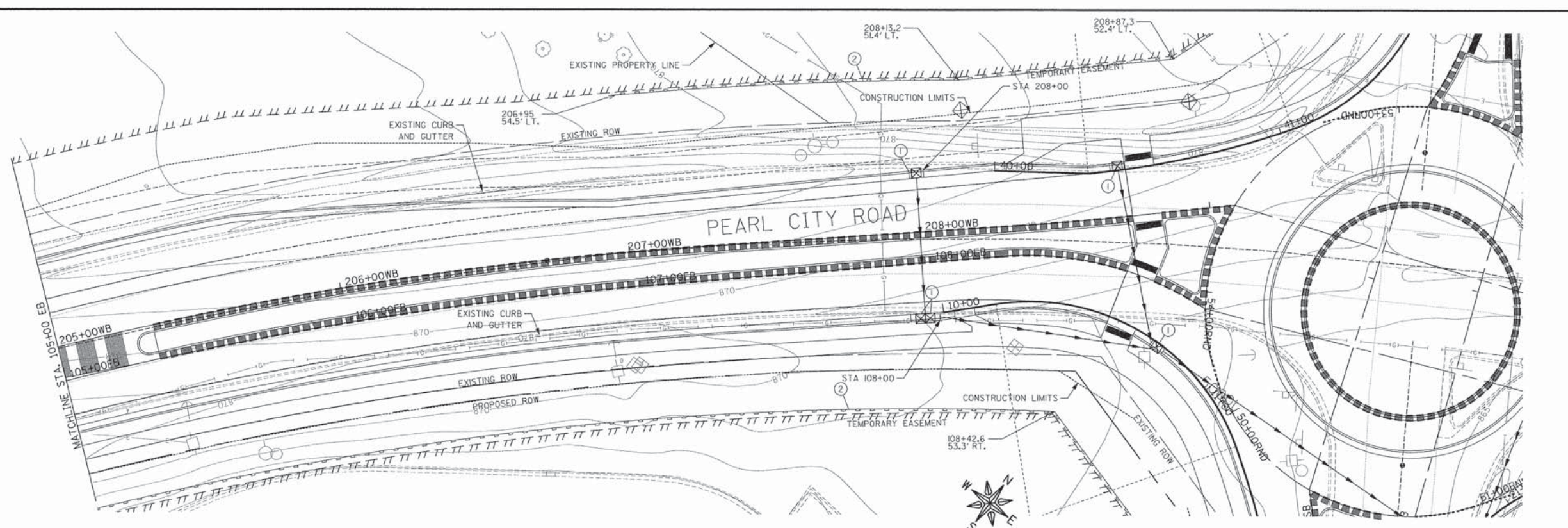
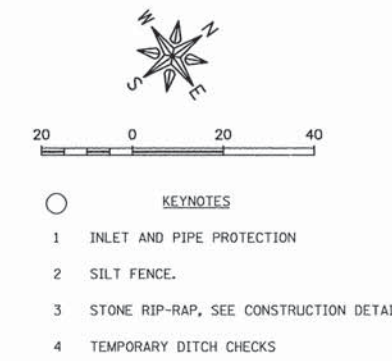
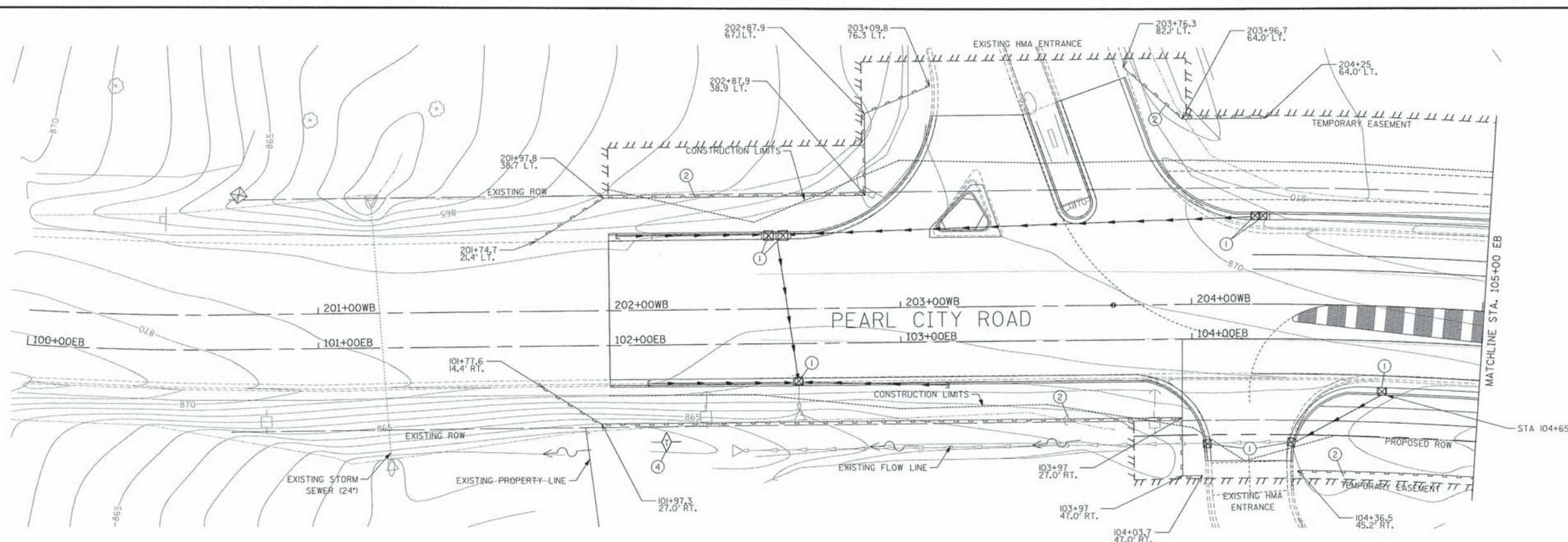
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD  
EROSION CONTROL PLAN

g:\vectors\station\2012\12-471\plan set\12-471-16 erosion plan.dgn

JOB NUMBER:  
12-471

SHEET NUMBER:  
45 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

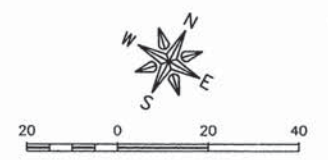
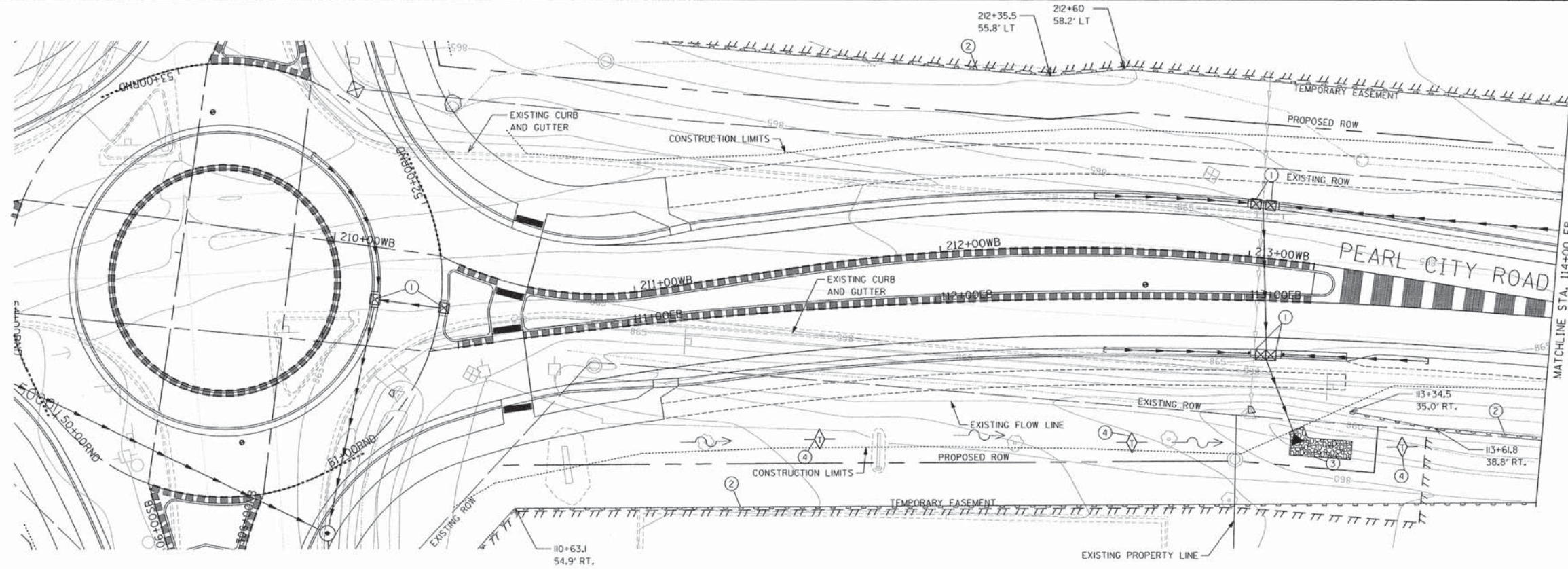
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: YG  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: AS NOTED

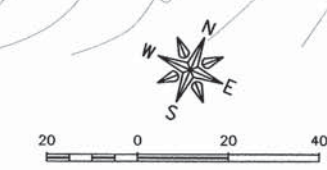
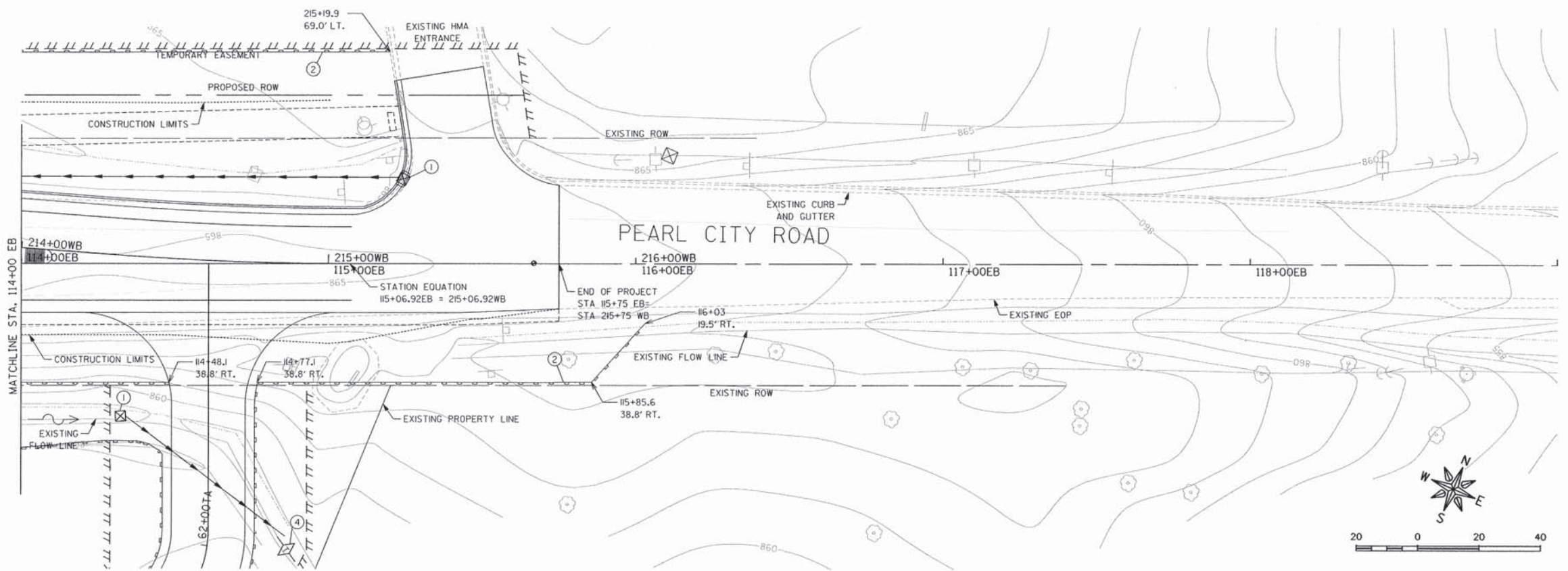
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 PEARL CITY ROAD EB  
 EROSION CONTROL PLAN  
 STA 100+00 TO ROUNDABOUT  
 G:\vforrestation\2012\12-471\plan set\12-471-16 erosion-eb-wb.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 46 of 93



- KEYNOTES**
- 1 INLET AND PIPE PROTECTION
  - 2 SILT FENCE.
  - 3 STONE RIP-RAP.
  - 4 TEMPORARY DITCH CHECK



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

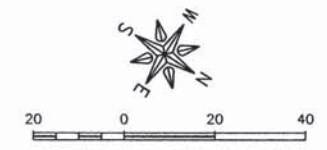
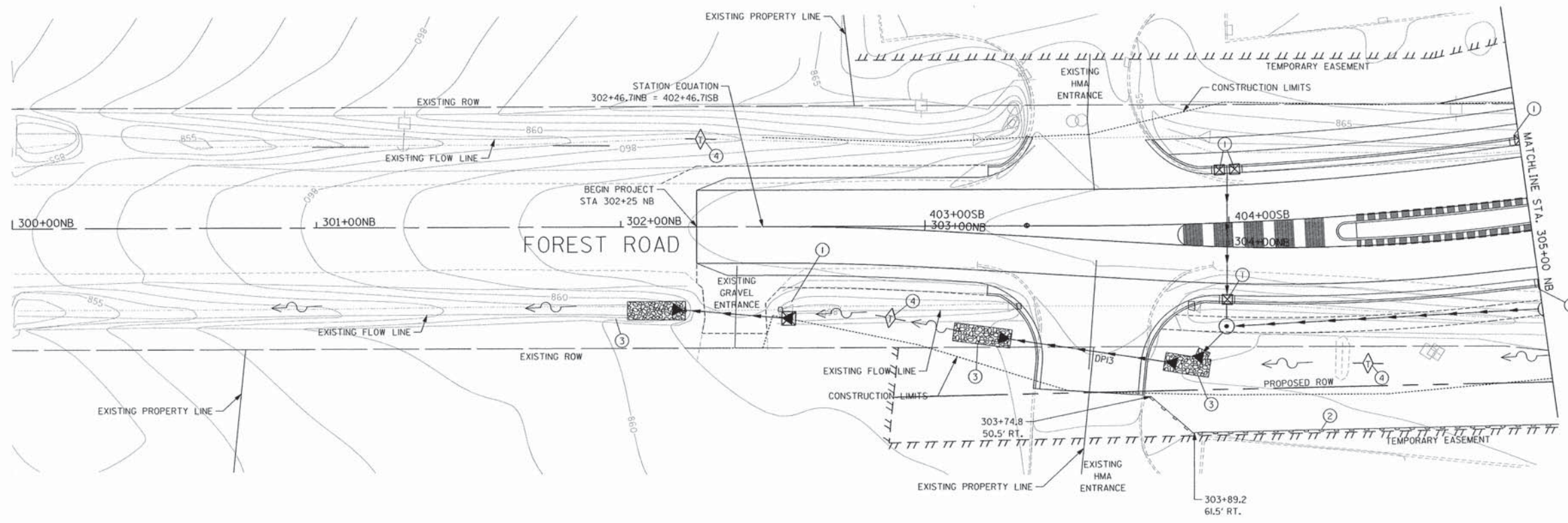
PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

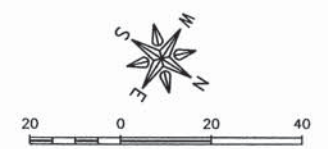
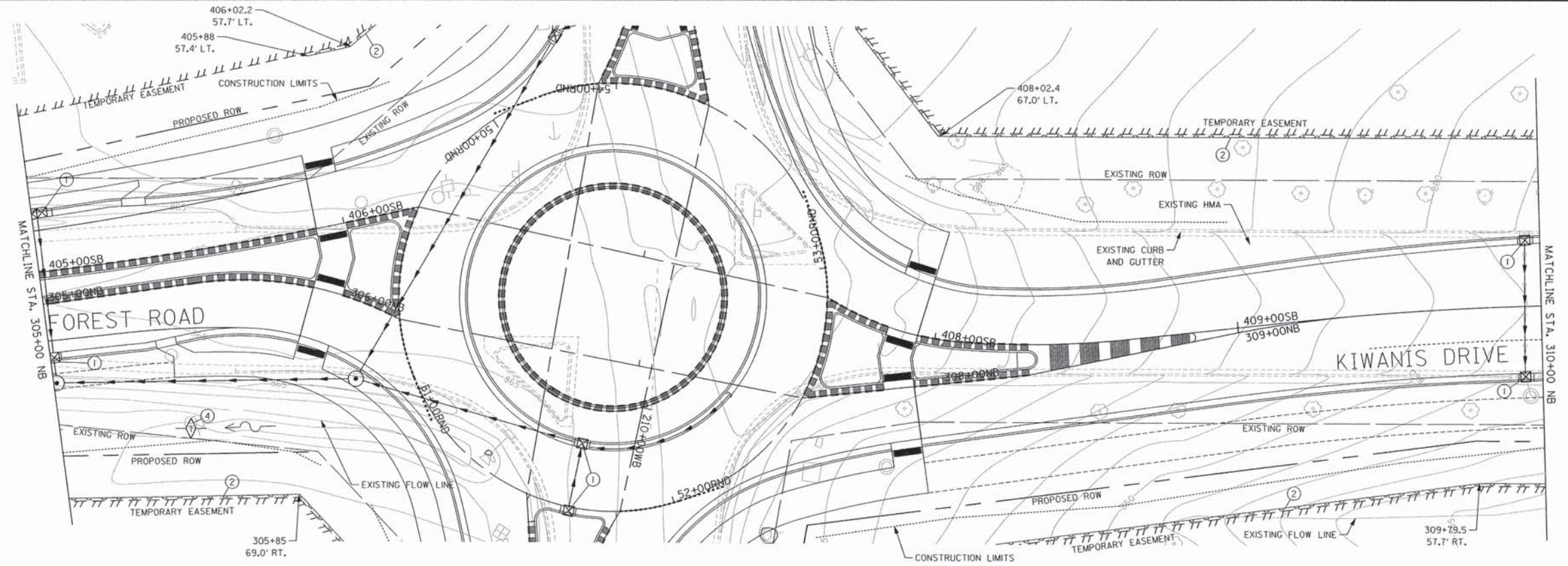
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
EROSION CONTROL PLAN  
ROUNDBOUT TO STA 116+00  
G:\mccrostation\2012\12-47\plan set\12-47-16 erosion-eb-wb.dgn

JOB NUMBER:  
12-471  
SHEET NUMBER:  
47 of 93



- KEYNOTES**
- 1 INLET AND PIPE PROTECTION
  - 2 SILT FENCE.
  - 3 STONE RIP-RAP.
  - 4 TEMPORARY DITCH CHECKS



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

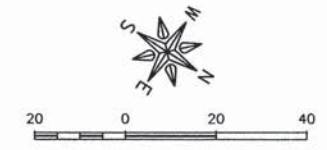
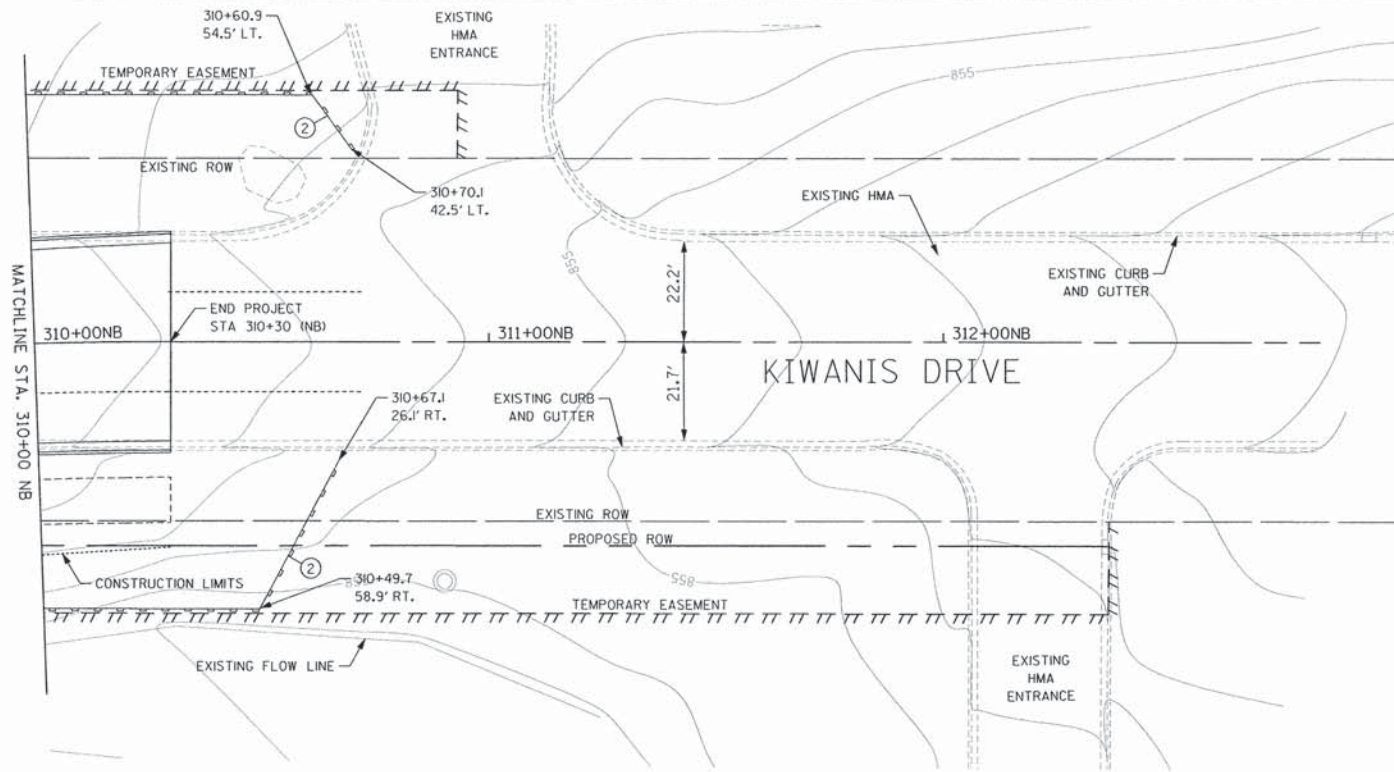
DRAWN BY: YG  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 FOREST ROAD NB  
 EROSION CONTROL PLAN  
 STA 300+00 TO STA 310+00  
 G:\m\cristation\2012-471\plan set\12-471-16\_erosion-nb.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 48 of 93





- KEYNOTES**
- 1 INLET AND PIPE PROTECTION
  - 2 SILT FENCE.
  - 3 STONE RIP-RAP.
  - 4 TEMPORARY DITCH CHECK

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

**OWNER/DEVELOPER:**  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

**PROJECT AND LOCATION:**  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

**DRAWN BY:** YG  
**APPROVED BY:** JD  
**DATE:** 01/21/13  
**SCALE:** AS NOTED

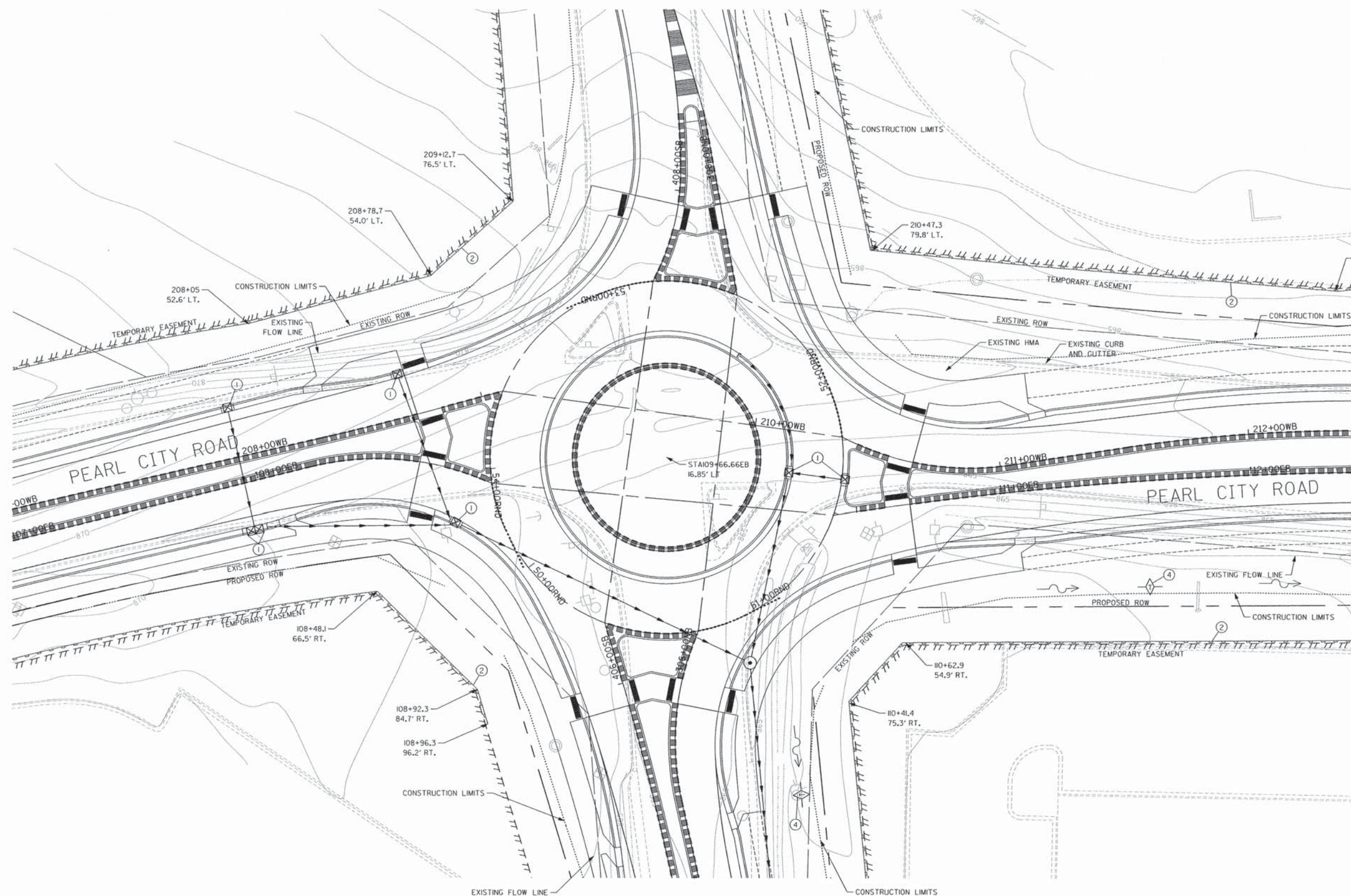
REVISIONS		
REV. NO.	DESCRIPTION	DATE

**DRAWING:**  
 FOREST ROAD NB  
 EROSION CONTROL PLAN  
 STA 310+00 TO STA 312+00  
G:\velcrostation\2012-471\plan set\12-471-16\_erosion-nb-st.dgn

**JOB NUMBER:**  
 12-471  
**SHEET NUMBER:**  
 49 of 93



- KEYNOTES**
- 1 INLET AND PIPE PROTECTION
  - 2 SILT FENCE.
  - 3 STONE RIP-RAP.
  - 4 TEMPORARY DITCH CHECK



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
ROUNDBOUT  
EROSION CONTROL PLAN  
STA 50+00 TO STA 55+00

G:\m\crosstom\200\12-471\plan set\12-471-16\_erosion-rnd.dgn

JOB NUMBER:  
12-471

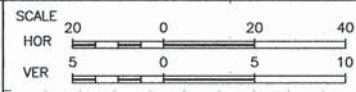
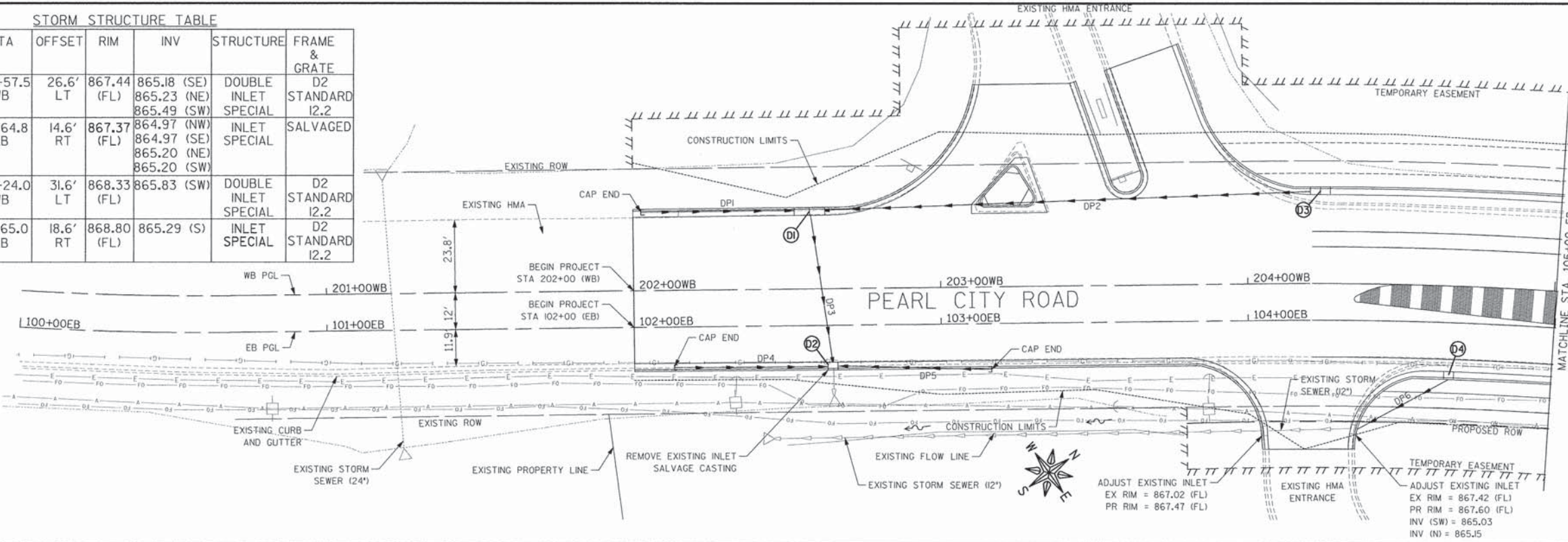
SHEET NUMBER:  
50 of 93

STORM STRUCTURE TABLE

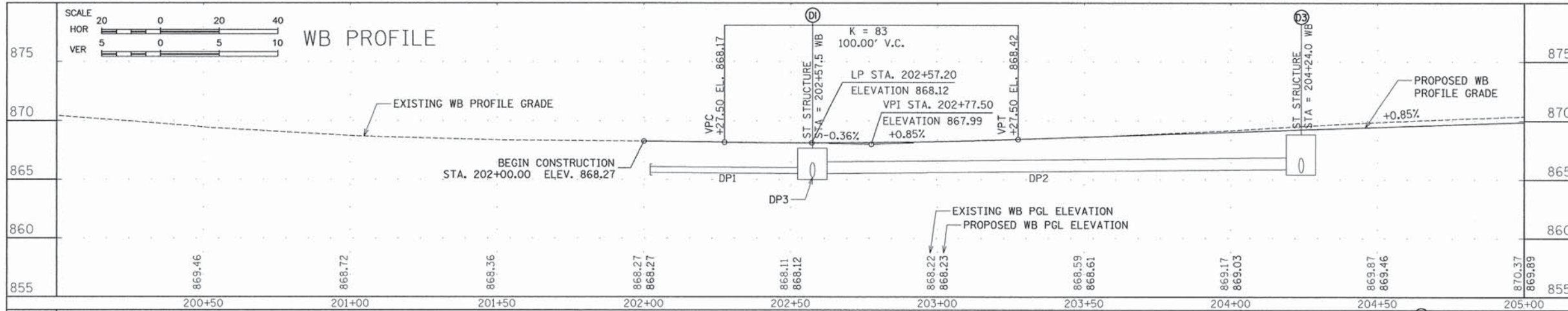
NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D1	202+57.5 WB	26.6' LT	867.44 (FL) 865.23 (NE) 865.49 (SW)	865.18 (SE) 865.23 (NE) 865.49 (SW)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2
D2	102+64.8 EB	14.6' RT	867.37 (FL) 864.97 (NW) 864.97 (SE) 865.20 (NE) 865.20 (SW)	864.97 (NW) 864.97 (SE) 865.20 (NE) 865.20 (SW)	INLET SPECIAL	SALVAGED
D3	204+24.0 WB	31.6' LT	868.33 (FL)	865.83 (SW)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2
D4	104+65.0 EB	18.6' RT	868.80 (FL)	865.29 (S)	INLET SPECIAL	D2 STANDARD 12.2

STORM PIPE TABLE

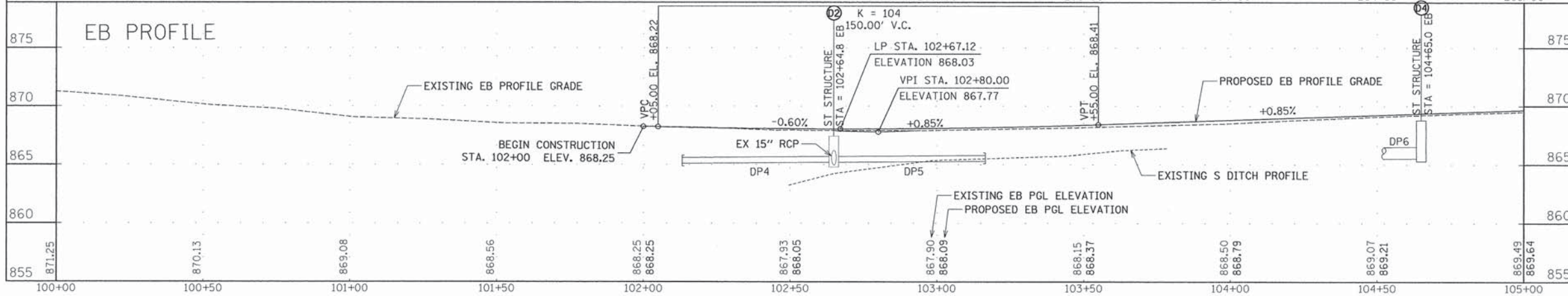
PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE GRADE TO DRAIN	PIPE MATERIAL
DPI	6"	50'	GRADE TO DRAIN	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP2	12"	167'	0.40%	GRADE TO DRAIN	RCP CLASS A, TYPE I
DP3	15"	52'	0.40%	GRADE TO DRAIN	RCP CLASS A, TYPE I
DP4	6"	50'	GRADE TO DRAIN	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP5	6"	50'	GRADE TO DRAIN	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP6	12"	35'	0.40%	GRADE TO DRAIN	RCP CLASS A, TYPE I



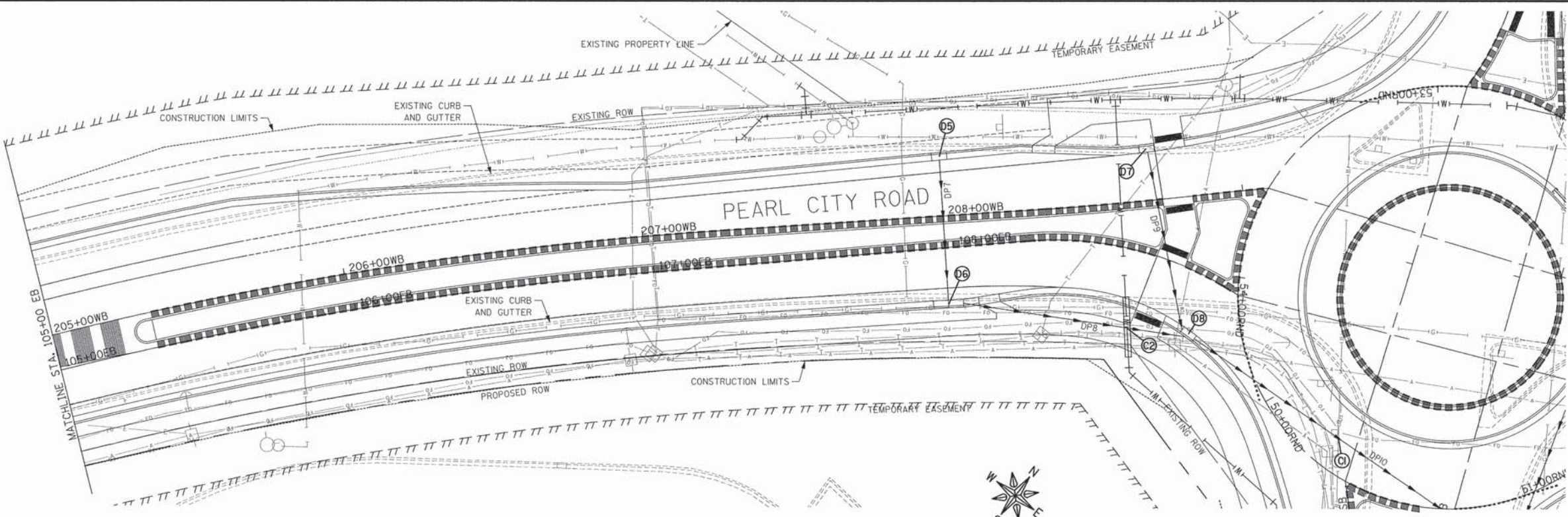
WB PROFILE



EB PROFILE



REVISIONS	
REV. NO.	DESCRIPTION

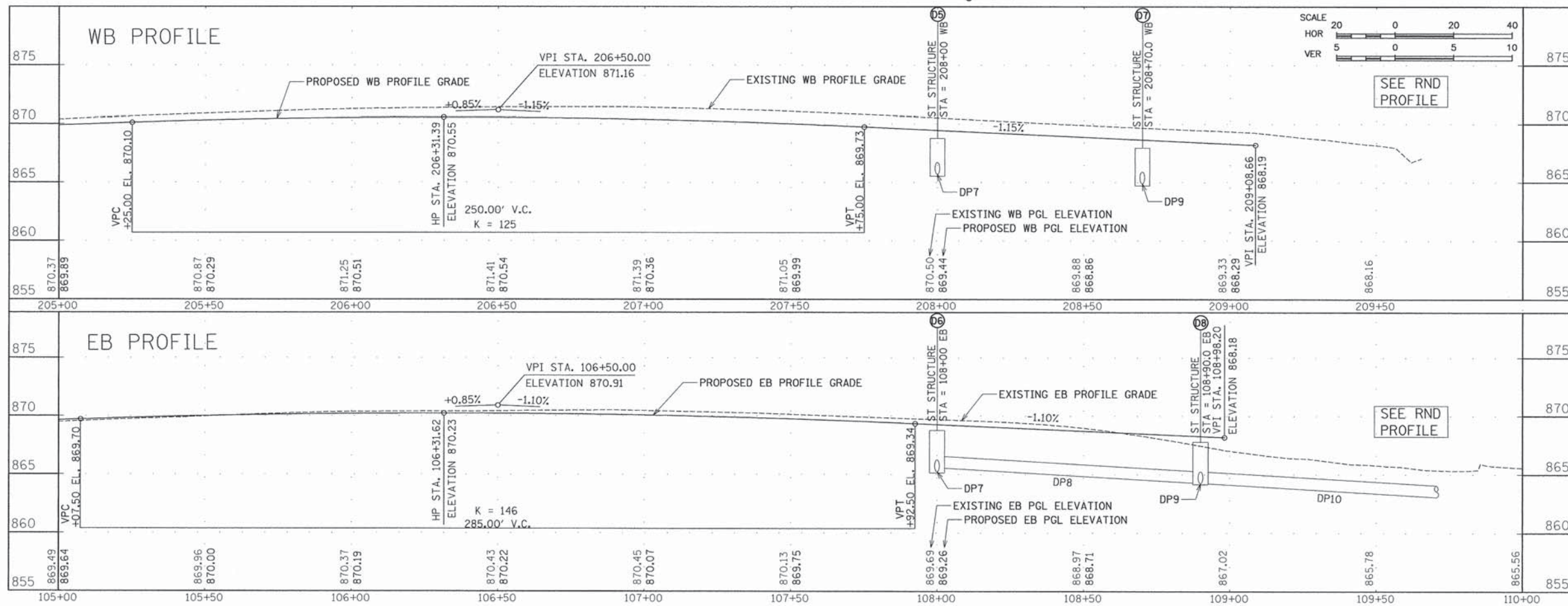


NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D5	208+00.0 WB	21.2' LT	868.85 (FL)	865.63 (SE)	INLET SPECIAL	D2 STANDARD 13.2A
D6	108+00.0 EB	20.2' LT	868.69 (FL)	865.03 (NE) 865.13 (NW)	DOUBLE INLET SPECIAL	D2 STANDARD 13.2A
D7	208+70.0 WB	18.7' LT	867.95 (FL)	864.90 (SE)	INLET SPECIAL	D2 STANDARD 13.2A
D8	108+90.0 EB	21.1' RT	867.79 (FL)	864.26 (NW) 864.16 (E) 864.26 (SW)	INLET SPECIAL	D2 STANDARD 13.2A

PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DP7	12"	50'	1.00%	RCP CLASS A, TYPE I
DP8	12"	77'	1.00%	RCP CLASS A, TYPE I
DP9	12"	64'	1.00%	RCP CLASS A, TYPE I
DP10	12"	130'	1.00%	RCP CLASS A, TYPE I

CROSSING	INVERT OF UPPER PIPE	ELEV.	CROWN OF LOWER PIPE	ELEV.
C1 108+65EB	12" STORM SEWER	863.55	WATER MAIN	860.40*
C2 406+36SB	12" STORM SEWER	864.46	WATER MAIN	862.70

\* ASSUMED BASED ON TYPICAL BURY DEPTHS - CONTRACTOR TO FIELD VERIFY



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

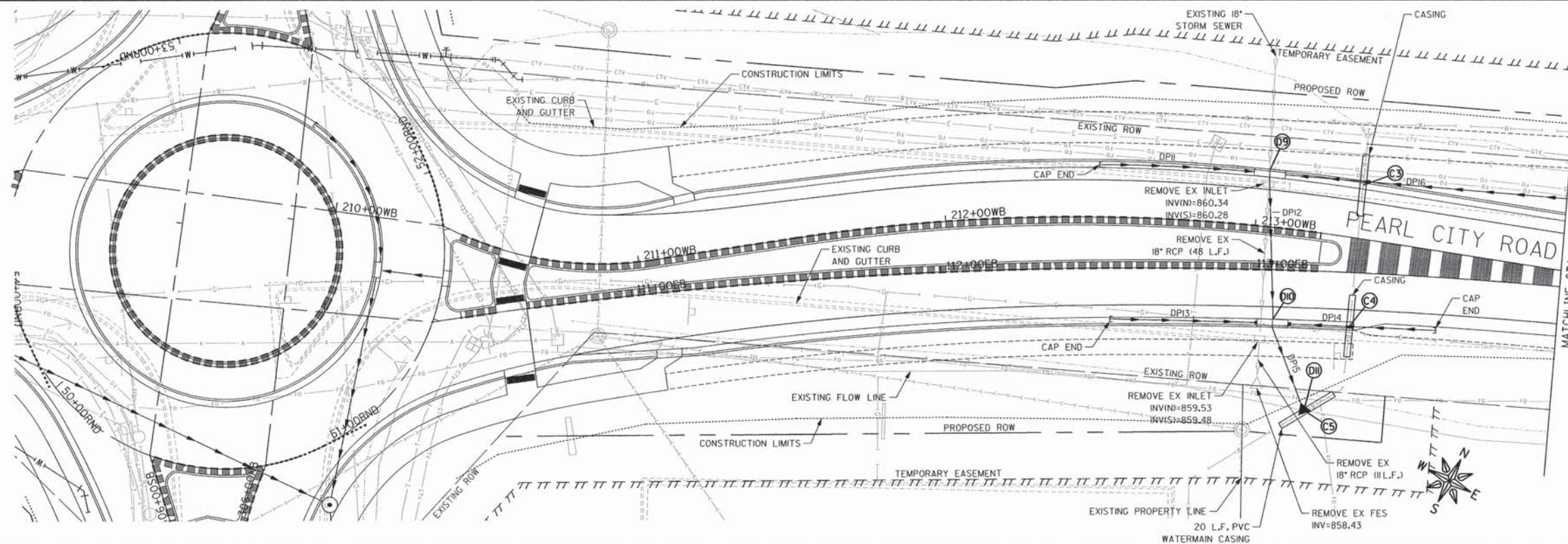
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
DRAINAGE PLAN AND PROFILE  
STA 105+00 TO STA 110+00

JOB NUMBER:  
12-471  
SHEET NUMBER:  
52 of 93

G:\vectors\station\2012\12-471\plan set\12-471-17 storm-eb-wb.dgn

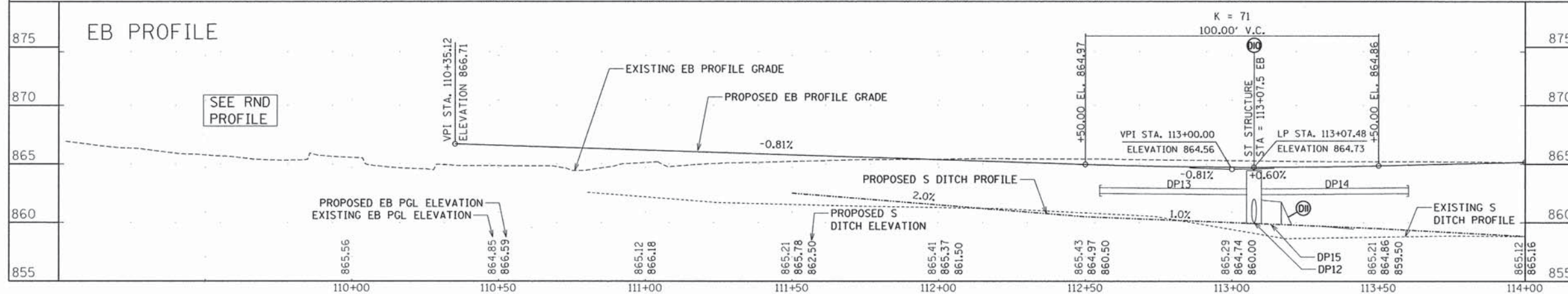
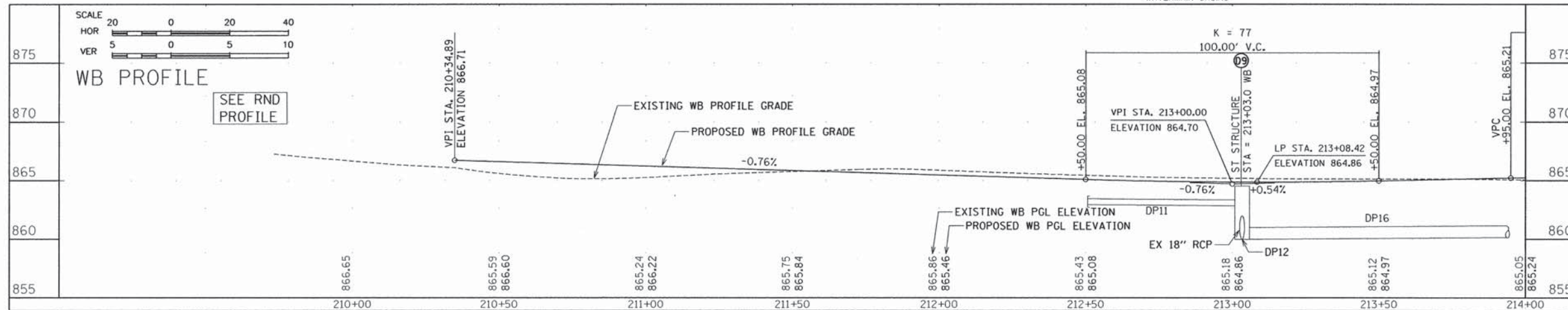


NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D9	213+03.0 WB	18.6' LT	864.32 (FL)	860.34 (N) 860.24 (E) 860.24 (S)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2
D10	113+07.5 EB	18.6' RT	864.19 (FL)	859.99 (N) 859.89 (S) 862.77 (W)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2
D11	113+20.5 EB	46.0' RT	-	859.69	24" RCP END SECTION	-

PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DP16	12"	221'	0.40%	RCP CLASS A, TYPE I
DP11	6"	50'	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP12	24"	49'	0.52%	RCP CLASS A, TYPE I
DP13	6"	50'	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP14	6"	50'	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)
DP15	24"	31'	0.63%	RCP CLASS A, TYPE I

CROSSING	INVERT OF UPPER PIPE	ELEV.	CROWN OF LOWER PIPE	ELEV.
C3 213+33WB	12" STORM SEWER	860.46	WATER MAIN	859.33*
C4 113+33EB	6" STORM SEWER	862.21	WATER MAIN	859.27*
C5 113+19EB	24" STORM SEWER	859.71	WATER MAIN	856.09*

\* ASSUMED BASED ON TYPICAL BURY DEPTHS - CONTRACTOR TO FIELD VERIFY



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-00325

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

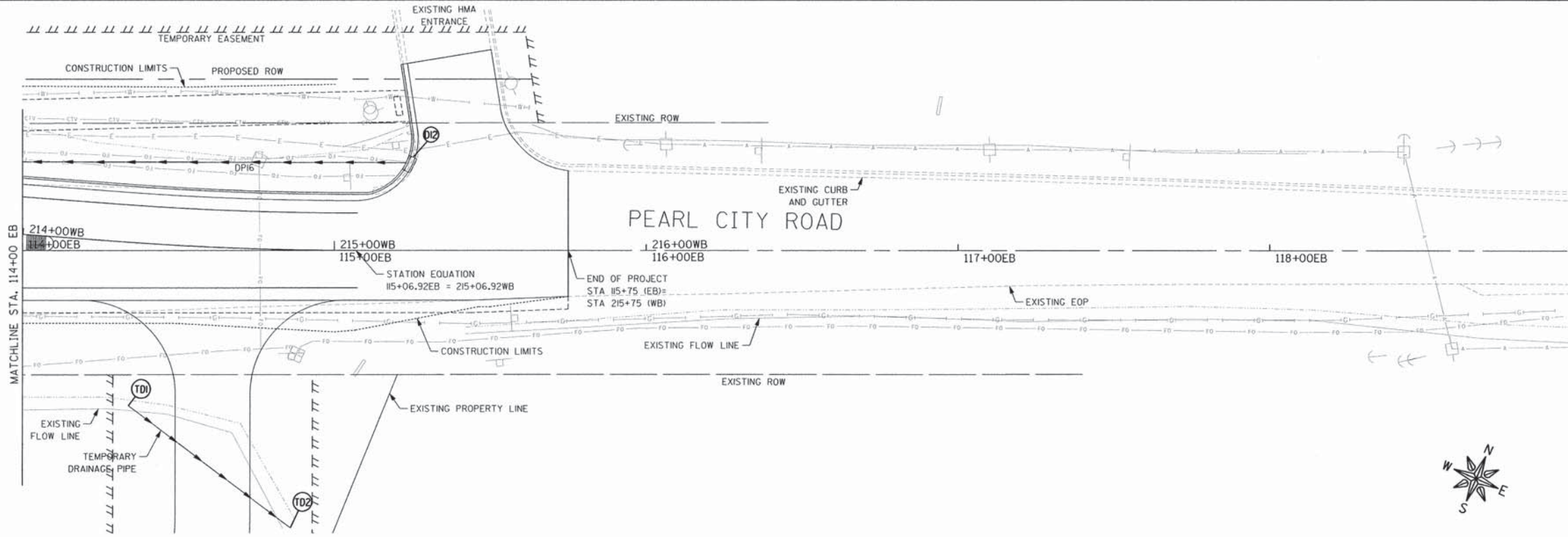
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
DRAINAGE PLAN AND PROFILE  
STA 110+00 TO STA 115+00

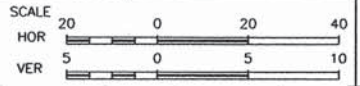
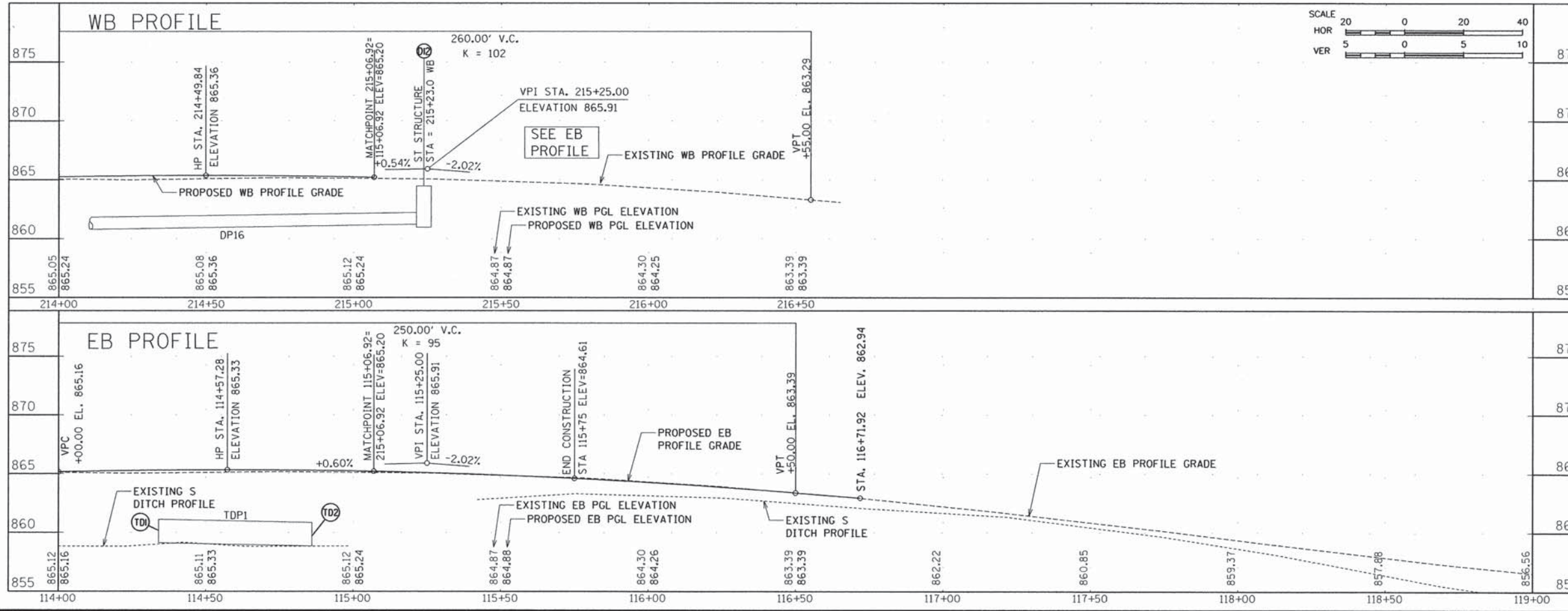
JOB NUMBER:  
12-471

SHEET NUMBER:  
53 of 93



NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
TD1	114+34.0 EB	50.0' RT	-	859.12	-	-
TD2	114+86.0 EB	89.0' RT	-	858.86	-	-
DI2	215+23.0 WB	28.6' LT	864.38 (FL)	861.22 (W)	INLET SPECIAL	D2 STANDARD 13.2C

PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
TDPI	24"	65'	0.40%	PIPE MATERIAL STORM SEWER CLASS B, TYPE 2
DP16	12"	22'	0.40%	RCP CLASS A, TYPE 1



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS IOWA WISCONSIN  
ILLINOIS DESIGN FIRM NO. 04-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

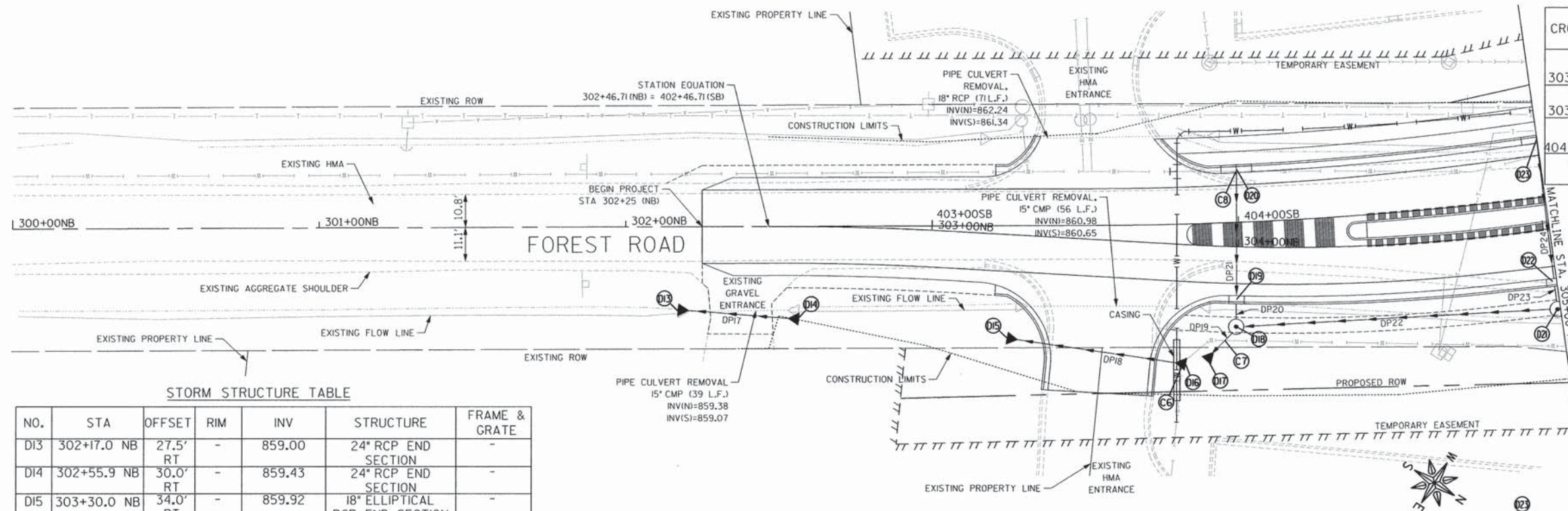
PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
DRAINAGE PLAN AND PROFILE  
STA 115+00 TO STA 120+00  
G:\mlcrastation\2012\12-471\plan set\12-471-17 storm-eb-wb.dgn

JOB NUMBER:  
12-471  
SHEET NUMBER:  
54 of 93



UTILITY CROSSING TABLE

CROSSING	INVERT OF UPPER PIPE	ELEVATION	CROWN OF LOWER PIPE	ELEVATION
C6 303+84NB	18" STORM SEWER	860.50	WATER MAIN	857.47*
C7 303+93NB	18" STORM SEWER	860.77	WATER MAIN	857.24*
C8 404+00BSB	15" STORM SEWER	861.49	WATER MAIN	858.40*

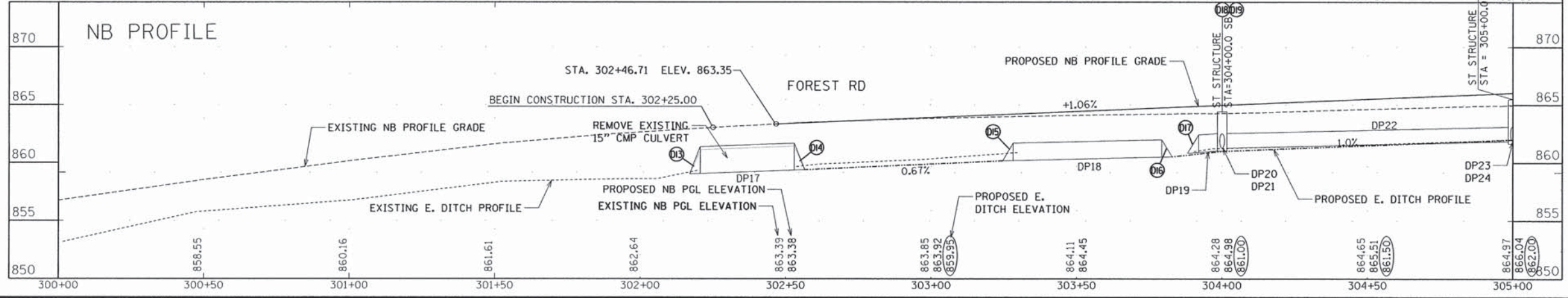
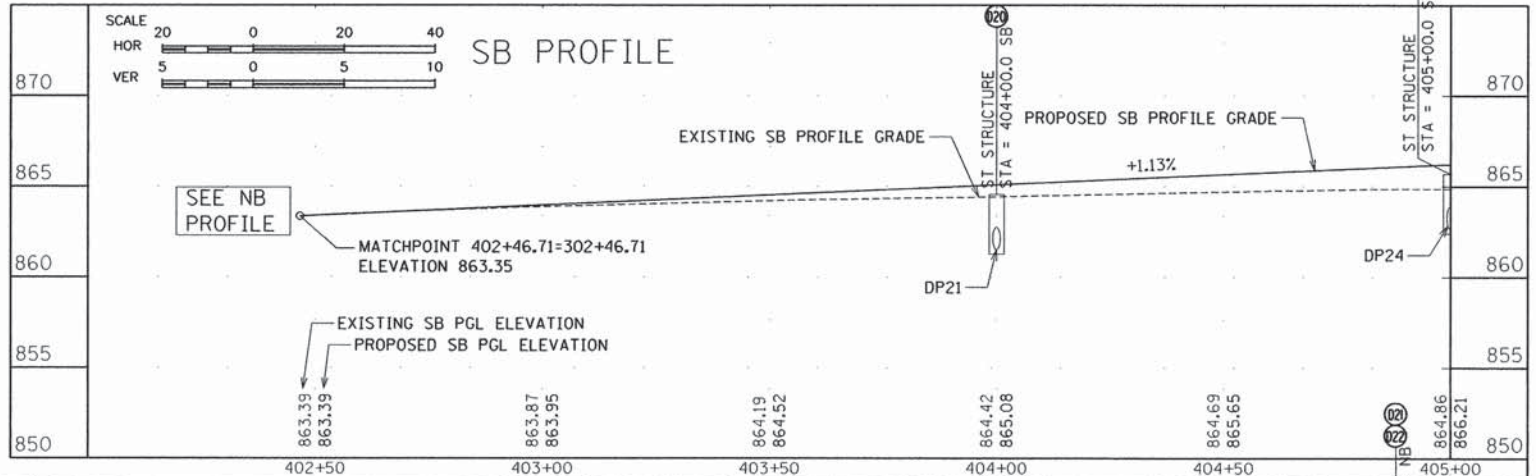
\* ASSUMED BASED ON TYPICAL BURY DEPTHS - CONTRACTOR TO FIELD VERIFY

STORM PIPE TABLE

PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DPI7	24"	39'	1.10%	RCP CLASS A, TYPE I
DPI8	18"	56'	1.10%	ELLIPTICAL RCP CLASS A, TYPE I
DPI9	18"	18'	0.88%	RCP CLASS A, TYPE I
DP20	12"	5'	0.50%	RCP CLASS A, TYPE I
DP21	12"	43'	0.50%	RCP CLASS A, TYPE I
DP22	18"	104'	0.60%	RCP CLASS A, TYPE I
DP23	12"	5'	1.00%	RCP CLASS A, TYPE I
DP24	12"	48'	1.00%	RCP CLASS A, TYPE I

STORM STRUCTURE TABLE

NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D13	302+17.0 NB	27.5' RT	-	859.00	24" RCP END SECTION	-
D14	302+55.9 NB	30.0' RT	-	859.43	24" RCP END SECTION	-
D15	303+30.0 NB	34.0' RT	-	859.92	18" ELLIPTICAL RCP END SECTION	-
D16	303+85.0 NB	39.0' RT	-	860.54	18" ELLIPTICAL RCP END SECTION	-
D17	303+92.0 NB	38.0' RT	-	860.70	18" RCP END SECTION	-
D18	304+00.0 NB	23.0' RT	864.86 (FL)	860.96 (N) 861.26 (W) 860.86 (E)	MANHOLE WITH FLAP TOP SLAB TYPE A	TYPE I CLOSED LID
D19	304+00.0 NB	18.6' RT	864.43 (FL)	861.29 (W) 861.29 (E)	INLET SPECIAL	D2 STANDARD 13.2A
D20	404+00.0 SB	18.8' LT	864.54 (FL)	861.50 (E)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2
D21	305+00.0 NB	23.2' RT	865.92 (FL)	861.83 (N) 862.08 (W) 861.58 (S)	MANHOLE WITH FLAP TOP SLAB TYPE A	TYPE I CLOSED LID
D22	305+00.0 NB	18.8' RT	865.62 (FL)	862.23 (W) 862.13 (E)	INLET SPECIAL	D2 STANDARD 13.2A
D23	405+00.0 SB	20.4' LT	865.63 (FL)	862.71 (E)	DOUBLE INLET SPECIAL	D2 STANDARD 12.2



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

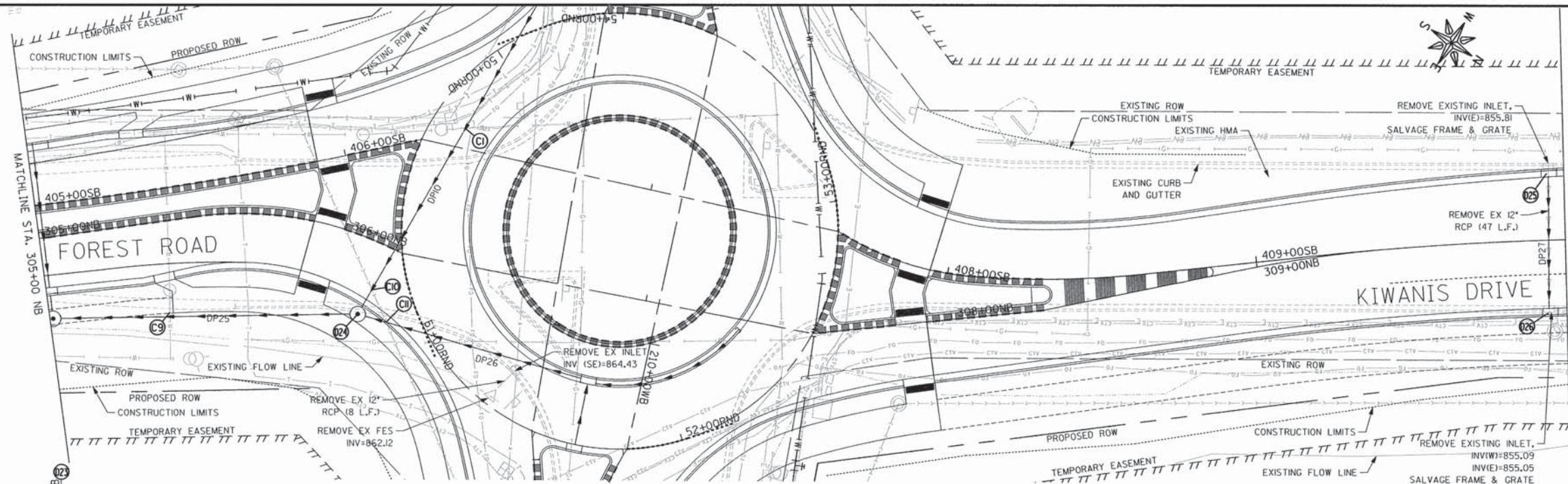
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD NB  
DRAINAGE PLAN AND PROFILE  
STA 300+00 TO STA 305+00

JOB NUMBER:  
12-471  
SHEET NUMBER:  
55 of 93

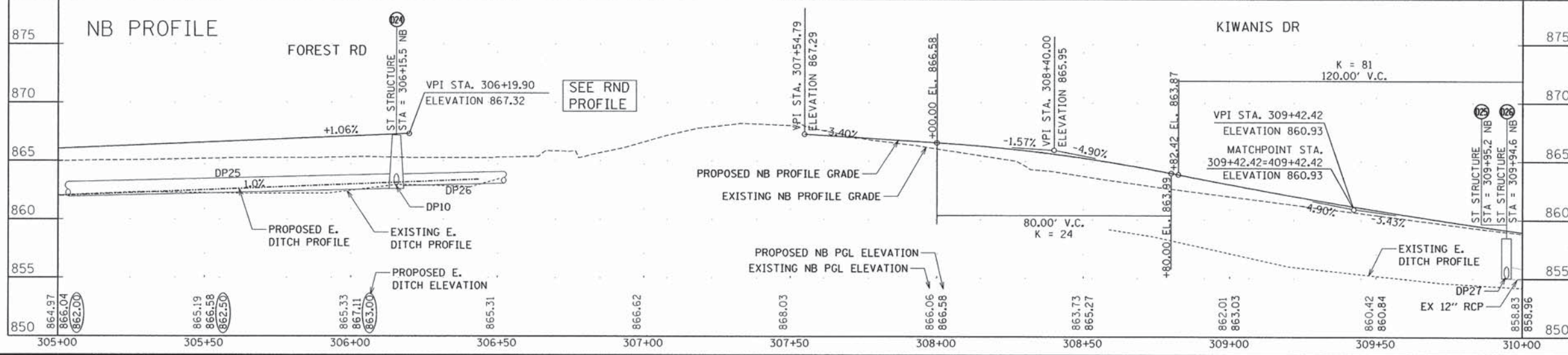
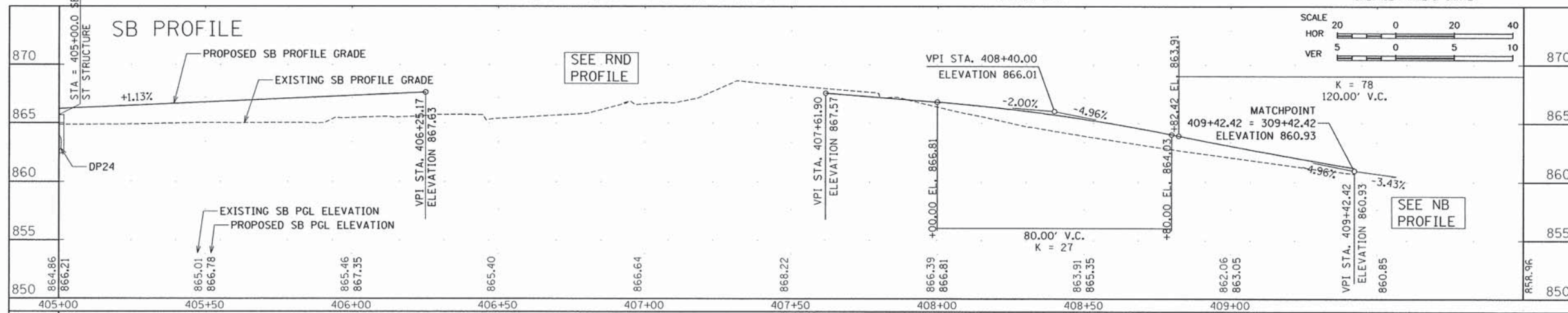


STORM STRUCTURE TABLE						
NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D24	306+15.5 NB	24.0' RT	867.20	862.86 (W) 862.86 (N) 862.61 (S)	MANHOLE WITH FLAP TOP SLAB TYPE A	TYPE I CLOSED LID
D25	309+95.2 NB	23.1' LT	858.50 (FL)	855.78 (E)	INLET SPECIAL	SALVAGED
D26	309+94.6 NB	24.6' RT	858.49 (FL)	855.09 (W) 855.04 (E)	INLET SPECIAL	SALVAGED

STORM PIPE TABLE				
PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DP10	12"	130'	1.00%	RCP CLASS A, TYPE I
DP25	15"	100'	0.78%	RCP CLASS A, TYPE I
DP26	12"	77'	0.65%	RCP CLASS A, TYPE I
DP27	12"	46'	1.50%	RCP CLASS A, TYPE I

UTILITY CROSSING TABLE				
CROSSING	INVERT OF UPPER PIPE	ELEV.	CROWN OF LOWER PIPE	ELEV.
CI 108+65EB	12" STORM SEWER	862.55	WATER MAIN	860.40*
C9 305+38NB	15" STORM SEWER	862.21	WATER MAIN	859.27*
CI0 306+16NB	12" STORM SEWER	862.94	SANITARY SEWER	854.17
CI1 306+21NB	12" STORM SEWER	862.92	SANITARY SEWER	854.13

\* ASSUMED BASED ON TYPICAL BURY DEPTHS - CONTRACTOR TO FIELD VERIFY



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

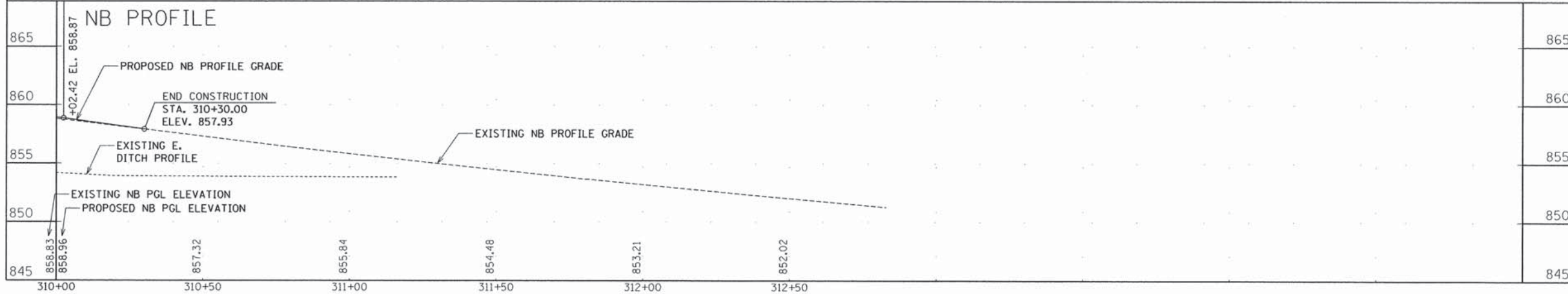
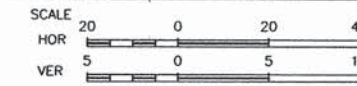
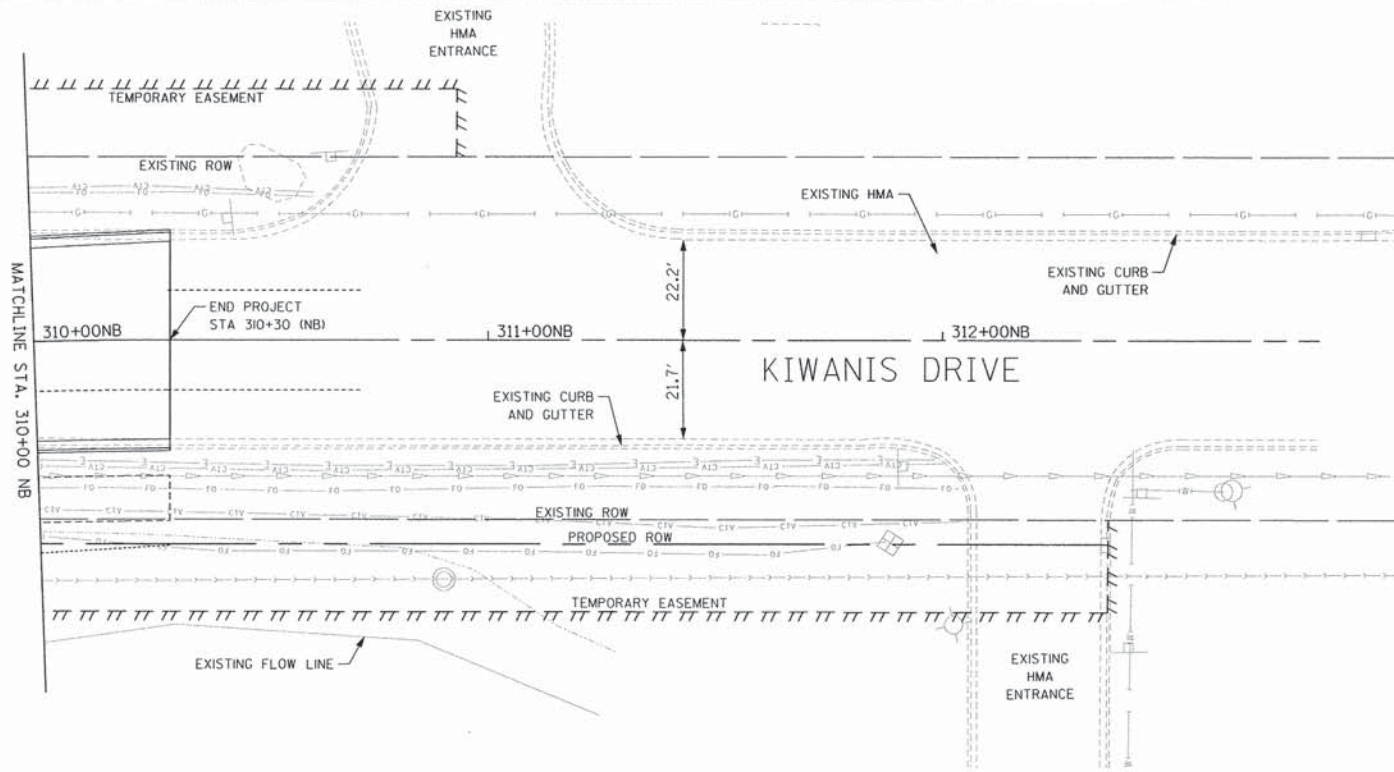
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD NB  
DRAINAGE PLAN AND PROFILE  
STA 305+00 TO STA 310+00

JOB NUMBER:  
12-471  
SHEET NUMBER:  
56 of 93





**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

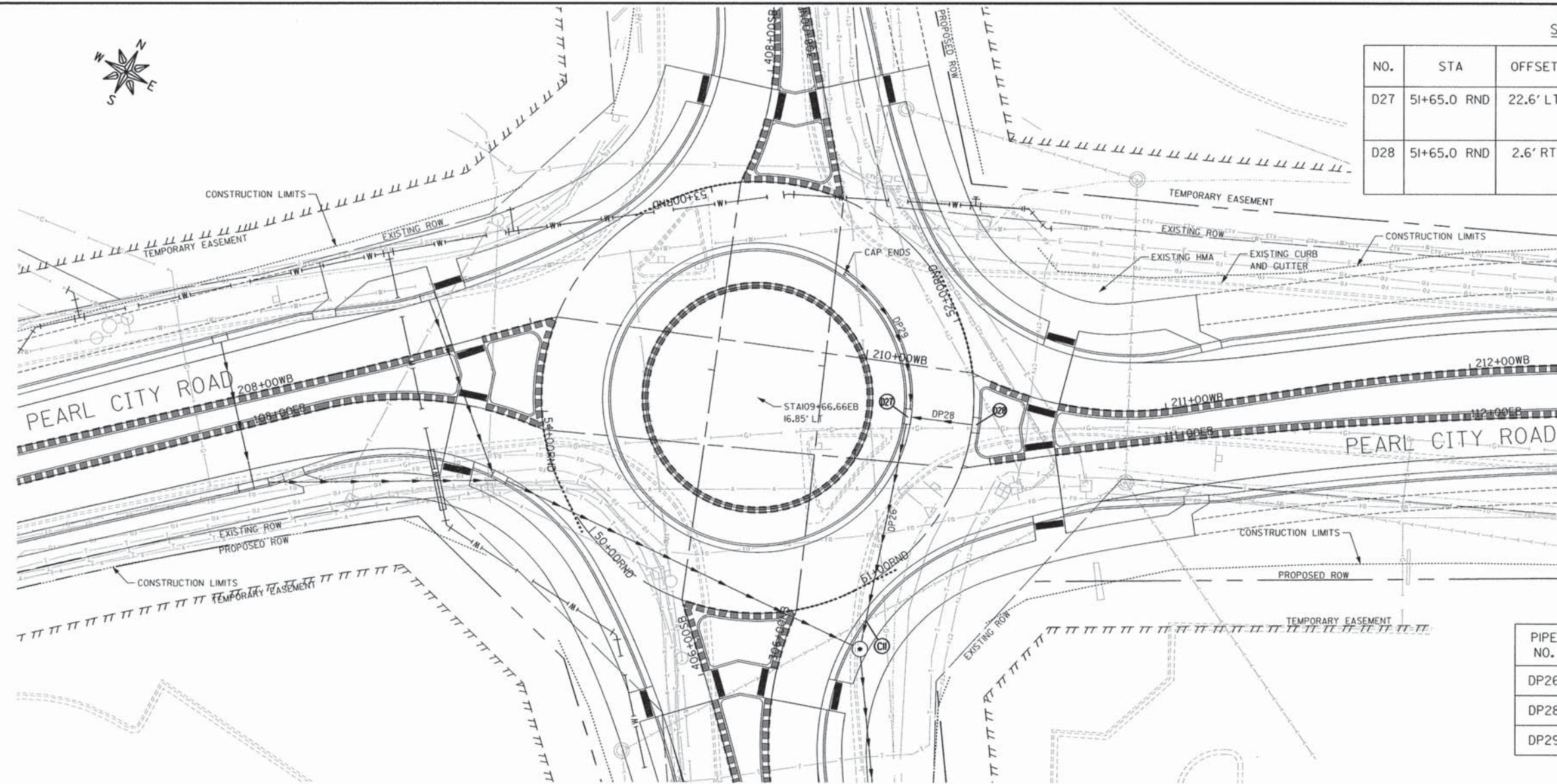
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD NB  
DRAINAGE PLAN AND PROFILE  
STA 310+00 TO STA 315+00

JOB NUMBER:  
12-471

SHEET NUMBER:  
57 of 93



STORM STRUCTURE TABLE

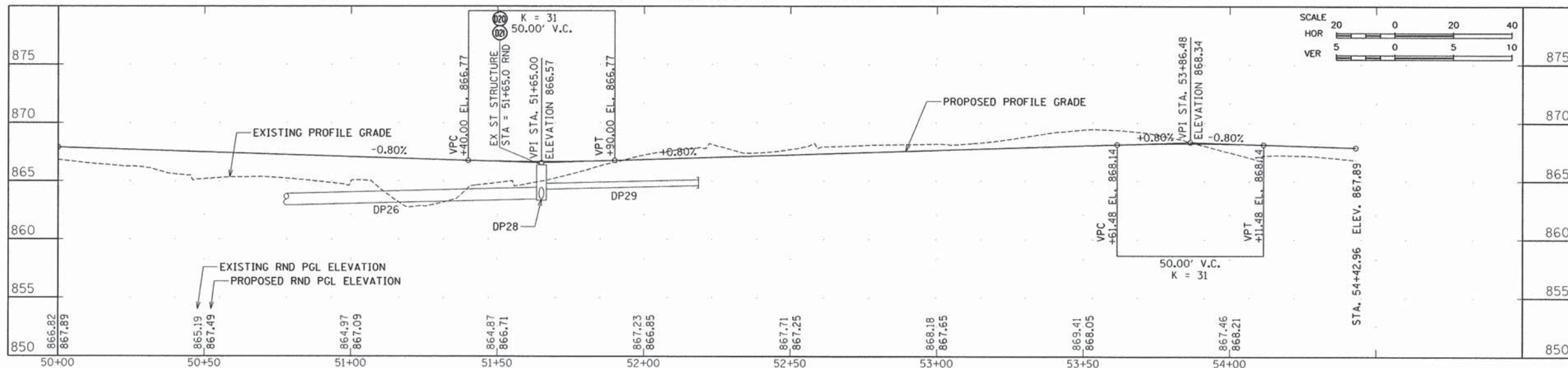
NO.	STA	OFFSET	RIM	INV	STRUCTURE	FRAME & GRATE
D27	51+65.0 RND	22.6' LT	866.33 (FL)	863.46 (E) 864.20 (N) 863.36 (S)	INLET SPECIAL	D2 STANDARD 13.2D
D28	51+65.0 RND	2.6' RT	866.45 (FL)	863.61 (W)	INLET SPECIAL	D2 STANDARD 13.2C

UTILITY CROSSING TABLE

CROSSING	INVERT OF UPPER PIPE	ELEV.	CROWN OF LOWER PIPE	ELEV.
CII 306+2INB	12" STORM SEWER	862.92	SANITARY SEWER	854.13

STORM PIPE TABLE

PIPE NO.	PIPE SIZE	PIPE LENGTH	PIPE SLOPE	PIPE MATERIAL
DP26	12"	77'	0.65%	RCP CLASS A, TYPE I
DP28	12"	23'	0.65%	RCP CLASS A, TYPE I
DP29	6"	50'	GRADE TO DRAIN	PERFORATED PVC (FABRIC WRAPPED)



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

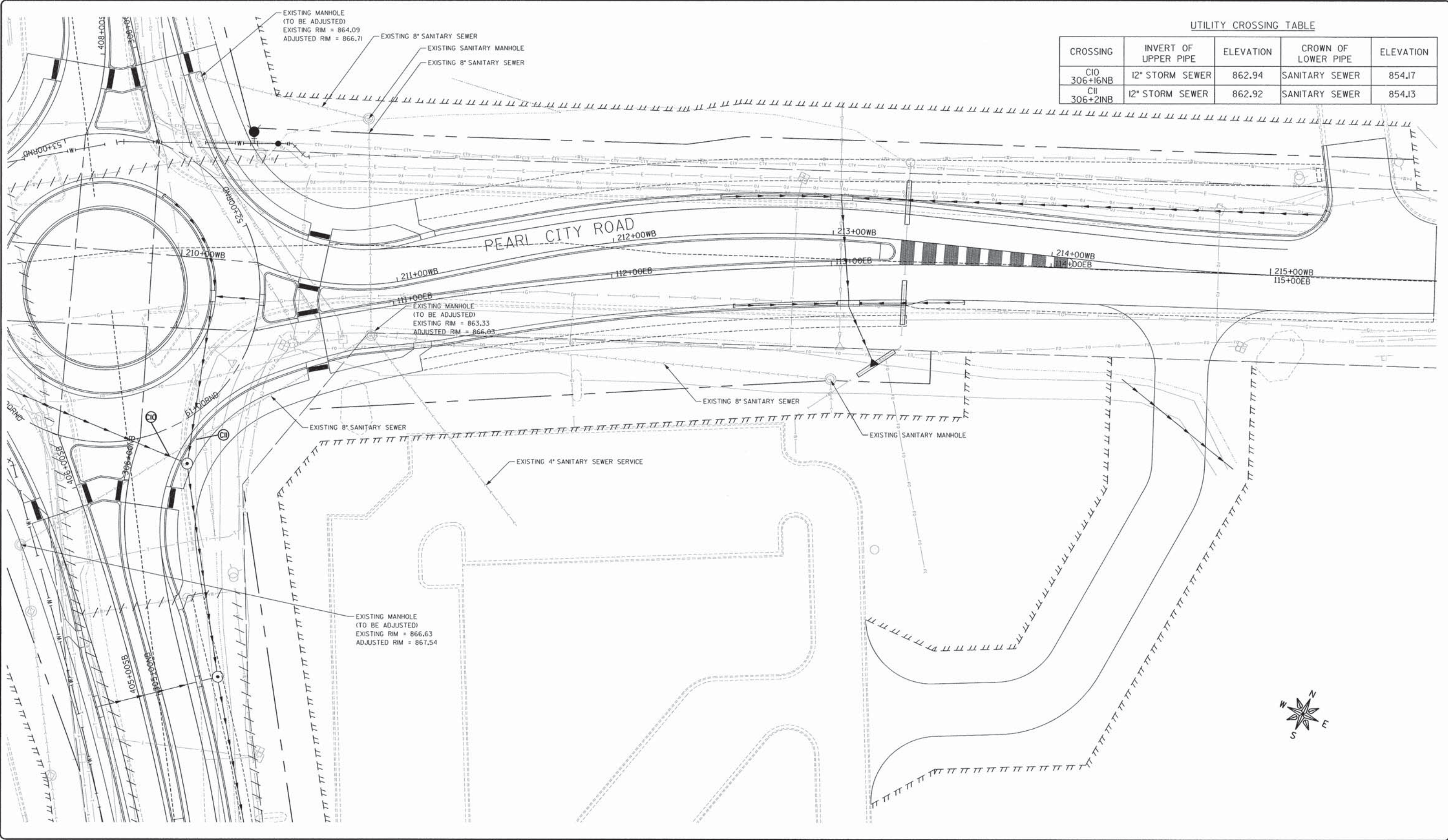
DRAWING:  
ROUNDBOUT  
DRAINAGE PLAN AND PROFILE  
STA 50+00 TO STA 55+00

JOB NUMBER:  
12-471

SHEET NUMBER:  
58 of 93

UTILITY CROSSING TABLE

CROSSING	INVERT OF UPPER PIPE	ELEVATION	CROWN OF LOWER PIPE	ELEVATION
C10 306+16NB	12" STORM SEWER	862.94	SANITARY SEWER	854.17
C11 306+21NB	12" STORM SEWER	862.92	SANITARY SEWER	854.13



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

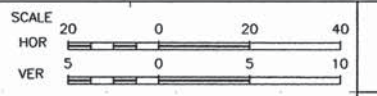
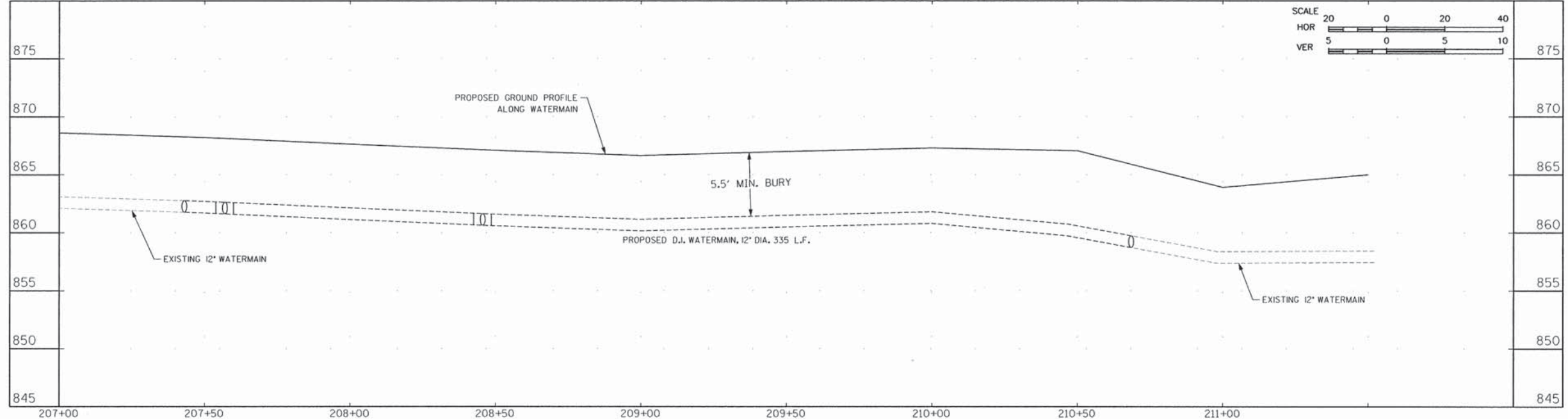
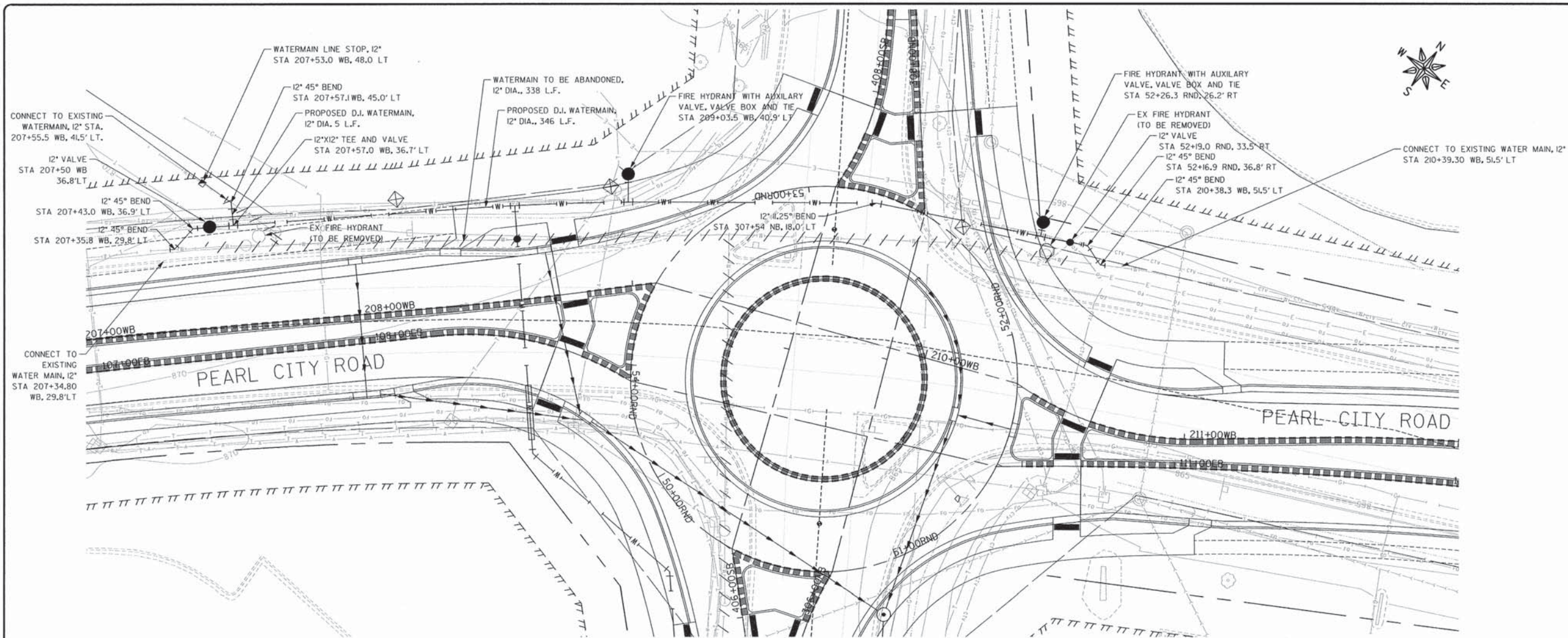
PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PEARL CITY ROAD EB  
SANITARY SEWER  
ROUNDAOUT TO STA 213+50  
G:\mcrastation\2012\12-471\plan set\12-471-18 sanitary improvements.dgn

JOB NUMBER:  
12-471  
SHEET NUMBER:  
59 of 93



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDAABOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

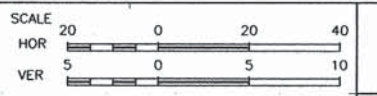
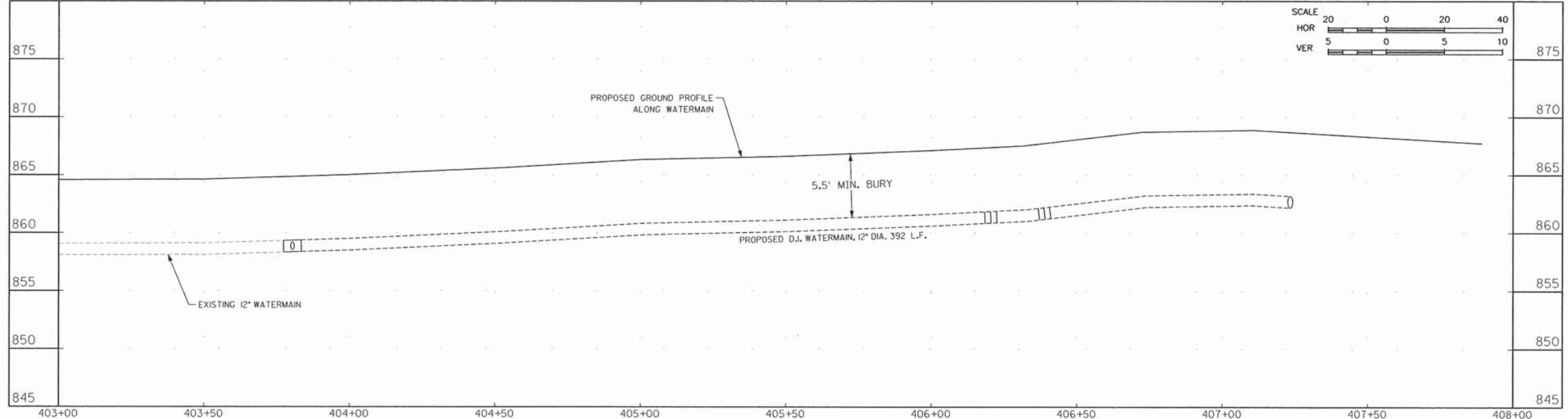
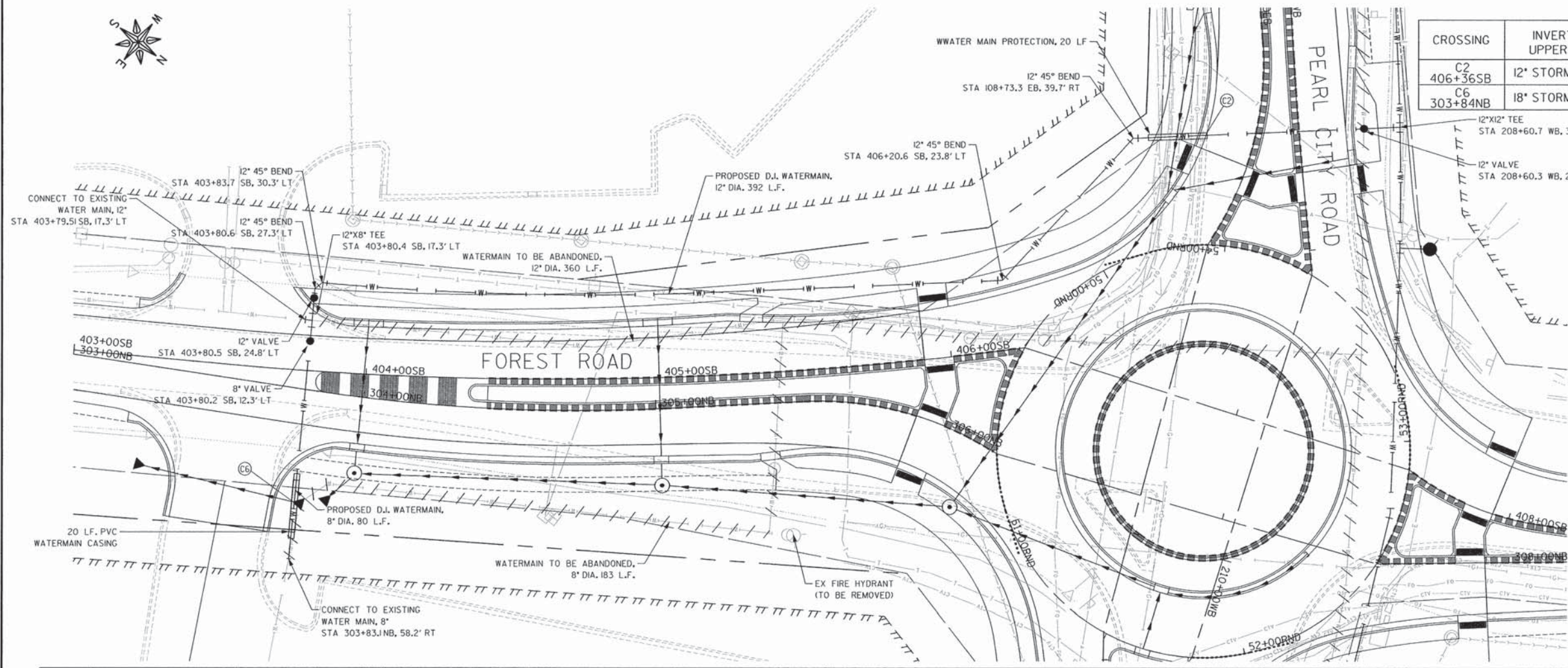
DRAWING:  
PEARL CITY ROAD  
PROPOSED WATERMAIN

JOB NUMBER:  
12-471  
SHEET NUMBER:  
60 of 93



UTILITY CROSSING TABLE

CROSSING	INVERT OF UPPER PIPE	ELEVATION	CROWN OF LOWER PIPE	ELEVATION
C2 406+36SB	12" STORM SEWER	864.46	WATER MAIN	862.70
C6 303+84NB	18" STORM SEWER	860.50	WATER MAIN	857.47



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

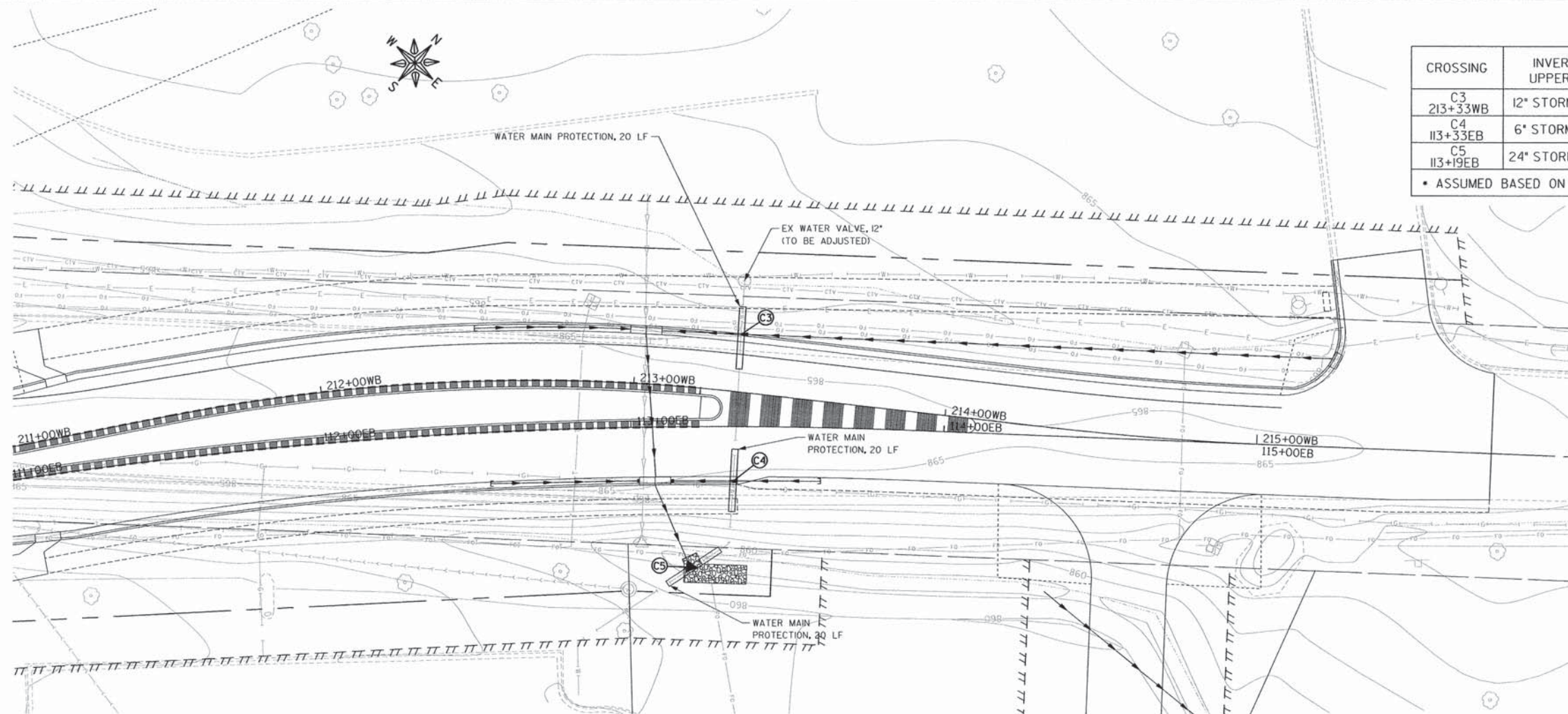
DRAWN BY: YG  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 FOREST ROAD  
 PROPOSED WATERMAIN

JOB NUMBER:  
 12-471

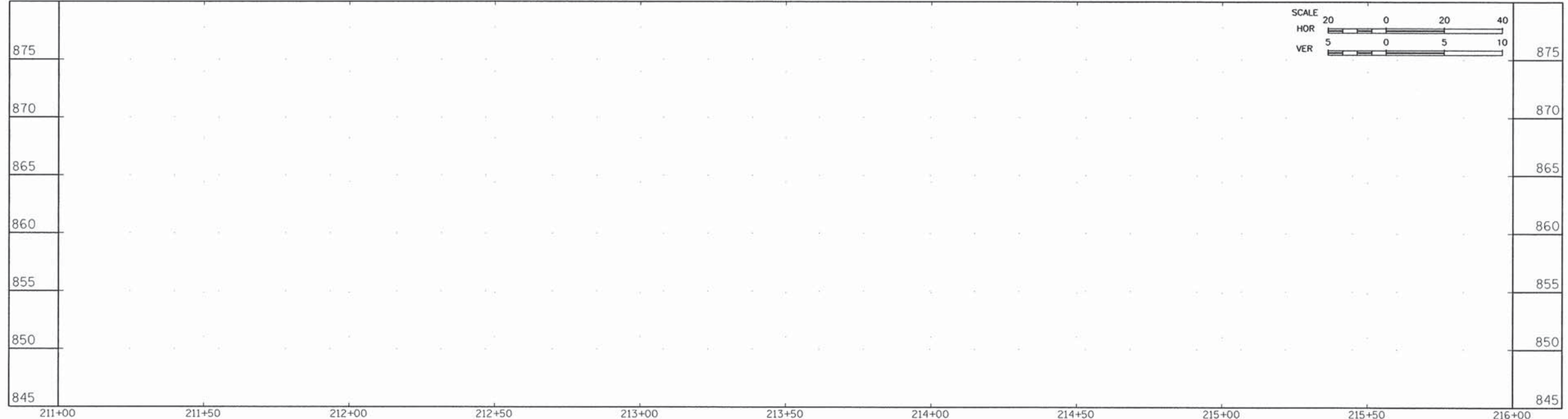
SHEET NUMBER:  
 61 of 93



UTILITY CROSSING TABLE

CROSSING	INVERT OF UPPER PIPE	ELEVATION	CROWN OF LOWER PIPE	ELEVATION
C3 213+33WB	12" STORM SEWER	860.46	WATER MAIN	859.33*
C4 113+33EB	6" STORM SEWER	862.21	WATER MAIN	859.27*
C5 113+19EB	24" STORM SEWER	859.71	WATER MAIN	856.09*

\* ASSUMED BASED ON TYPICAL BURY DEPTHS - CONTRACTOR TO FIELD VERIFY



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032




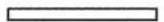




DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
FOREST ROAD  
PROPOSED WATERMAIN

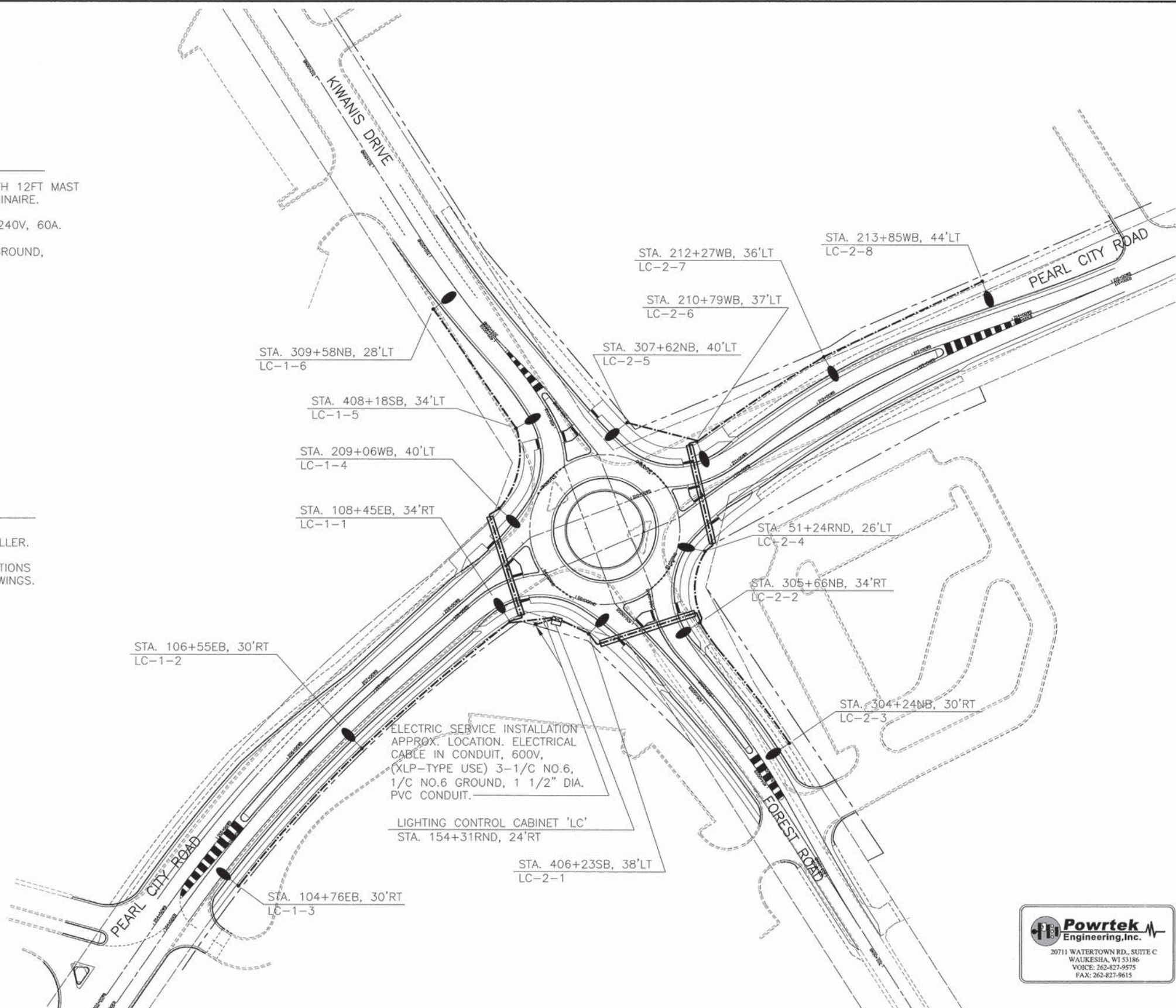
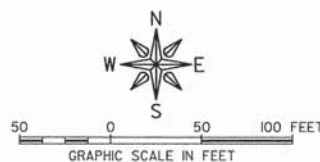
JOB NUMBER:  
12-471  
SHEET NUMBER:  
62 of 93

**LEGEND:**

-  PROPOSED LIGHTING UNIT: 30FT MH ALUMINUM POLE WITH 12FT MAST ARM AND 150W HORIZONTAL MOUNT SODIUM VAPOR LUMINAIRE.
-  PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V, 60A.
-  PROPOSED UNIT DUCT, 600V, 2-1/C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE.
-  PROPOSED UNDERGROUND CONDUIT, PVC, 3" DIA.
-  STA. 309+00, 28'RT ← STATION (LOCATION)
-  LC-1-1 ← POLE NUMBER
-  ← CIRCUIT NUMBER
-  ← CONTROL CABINET (SOURCE)

**GENERAL NOTES:**

1. LUMINAIRES ARE CONNECTED AT 240V. CIRCUITS 1 AND 2 ARE CONNECTED TO INDIVIDUAL 20A/2P CIRCUIT BREAKERS IN CONTROLLER.
2. INSTALLATION SHALL COMPLY WITH DIV. 800 AND ASSOCIATED SECTIONS OF IL. DOT STANDARD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS.



ELECTRIC SERVICE INSTALLATION APPROX. LOCATION. ELECTRICAL CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3-1/C NO.6, 1/C NO.6 GROUND, 1 1/2" DIA. PVC CONDUIT.

LIGHTING CONTROL CABINET 'LC'  
STA. 154+31RND, 24'RT

**Powrtek Engineering, Inc.**  
 20711 WATERTOWN RD., SUITE C  
 WAUKESHA, WI 53186  
 VOICE: 262-827-9575  
 FAX: 262-827-9615

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032






DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: NTS

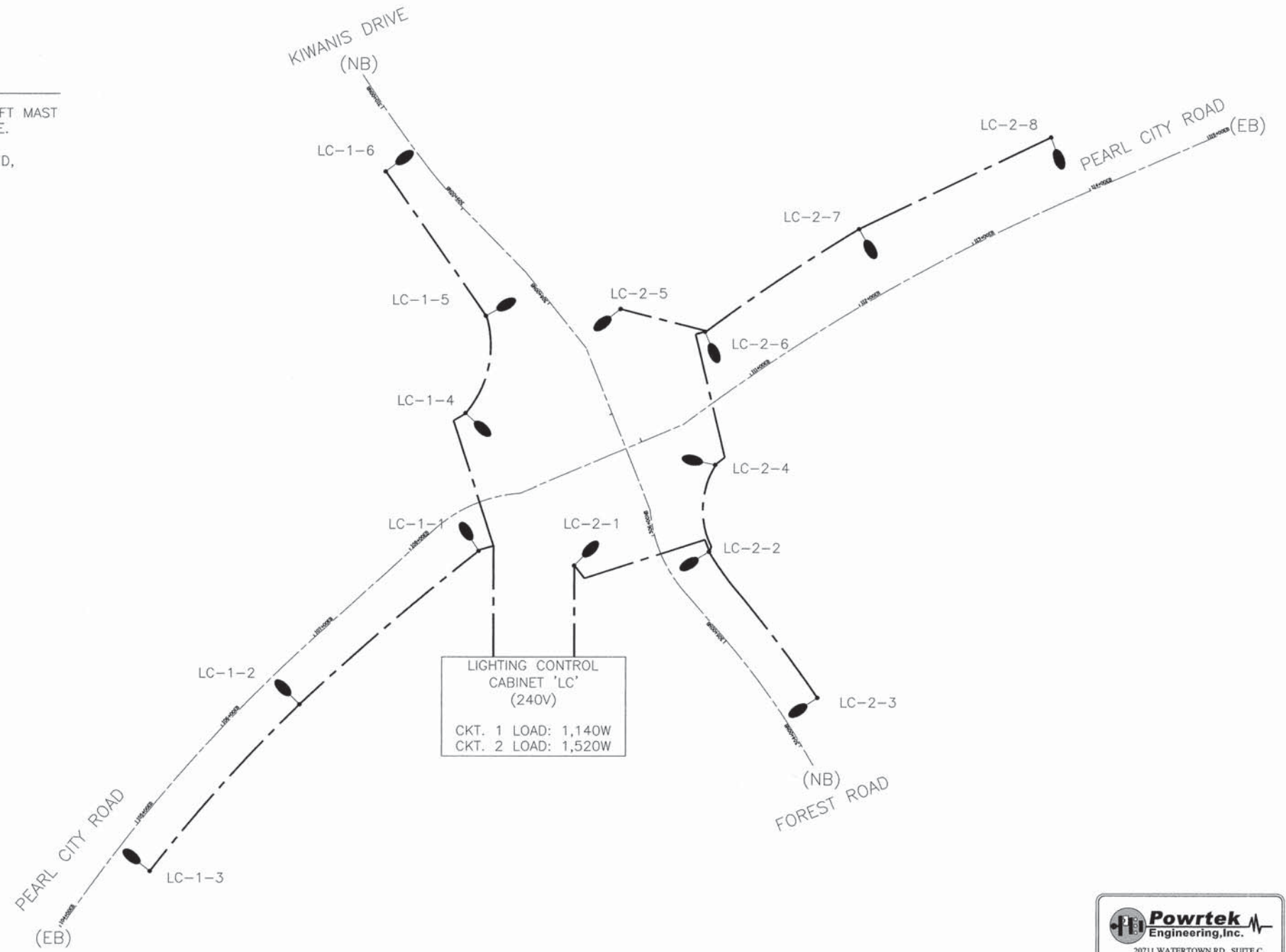
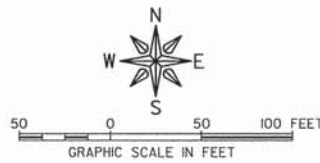
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 LIGHTING PLAN  
G:\freestation\2012\12-471\plan set\12-471-19 lighting plan.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 63 of 93

**LEGEND:**

-  PROPOSED LIGHTING UNIT: 30FT MH ALUMINUM POLE WITH 12FT MAST ARM AND 150W HORIZONTAL MOUNT SODIUM VAPOR LUMINAIRE.
-  PROPOSED UNIT DUCT, 600V, 2-1/C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE.
-  POLE NUMBER
-  CIRCUIT NUMBER
-  CONTROL CABINET (SOURCE)



**Powrtek Engineering, Inc.**  
 20711 WATERTOWN RD., SUITE C  
 WAUKESHA, WI 53186  
 VOICE: 262-827-9575  
 FAX: 262-827-9615

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: NTS

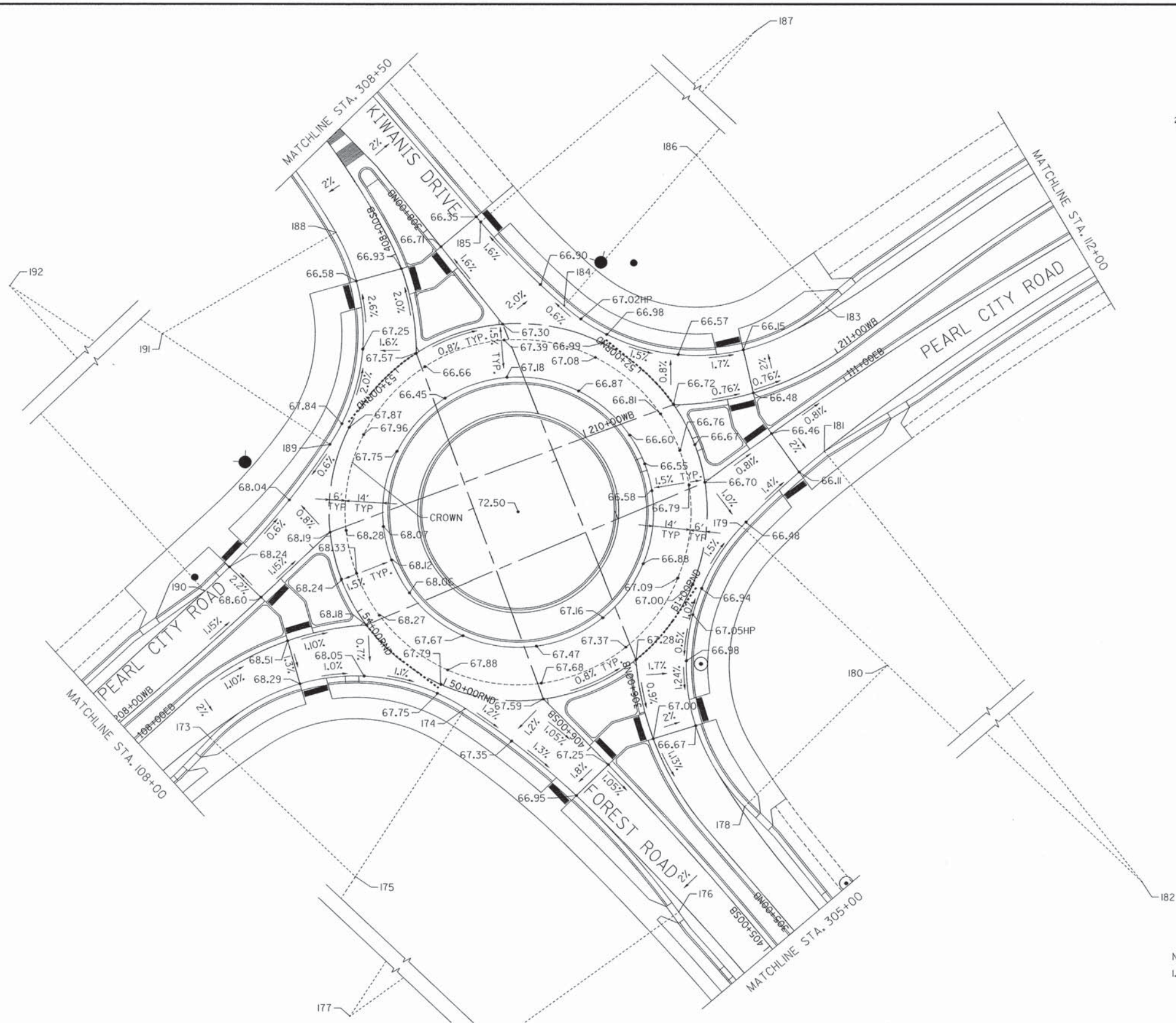
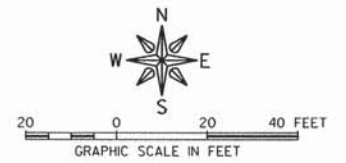
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 FIELD WIRING DIAGRAM  
G:\vectorstation\2012\12-471\plan set\12-471-18b\lighting alignment.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 63A of 93



DATA TABLE		
POINT NO.	STATION	OFFSET
173	10+09.11	0'
174	11+22.11	0'
175	54+42.03 RND	78.55'
176	12+32.84	0'
177	54+35.29 RND	302.42'
178	20+15.86	0'
179	21+31.61	0'
180	51+11.58 RND	78.62'
181	21+73.27	0'
182	50+95.95 RND	297.57'
183	31+51.01	0'
184	30+44.28	0'
185	30+00	0'
186	52+17.51 RND	78.62'
187	52+06.64 RND	300.68'
188	41+87.94	0'
189	41+04.32	0'
190	40+32.25	0'
191	53+27.95 RND	78.06'
192	53+22.88 RND	302.42'



NOTE:  
1. ELEVATION DATUM +800.00

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

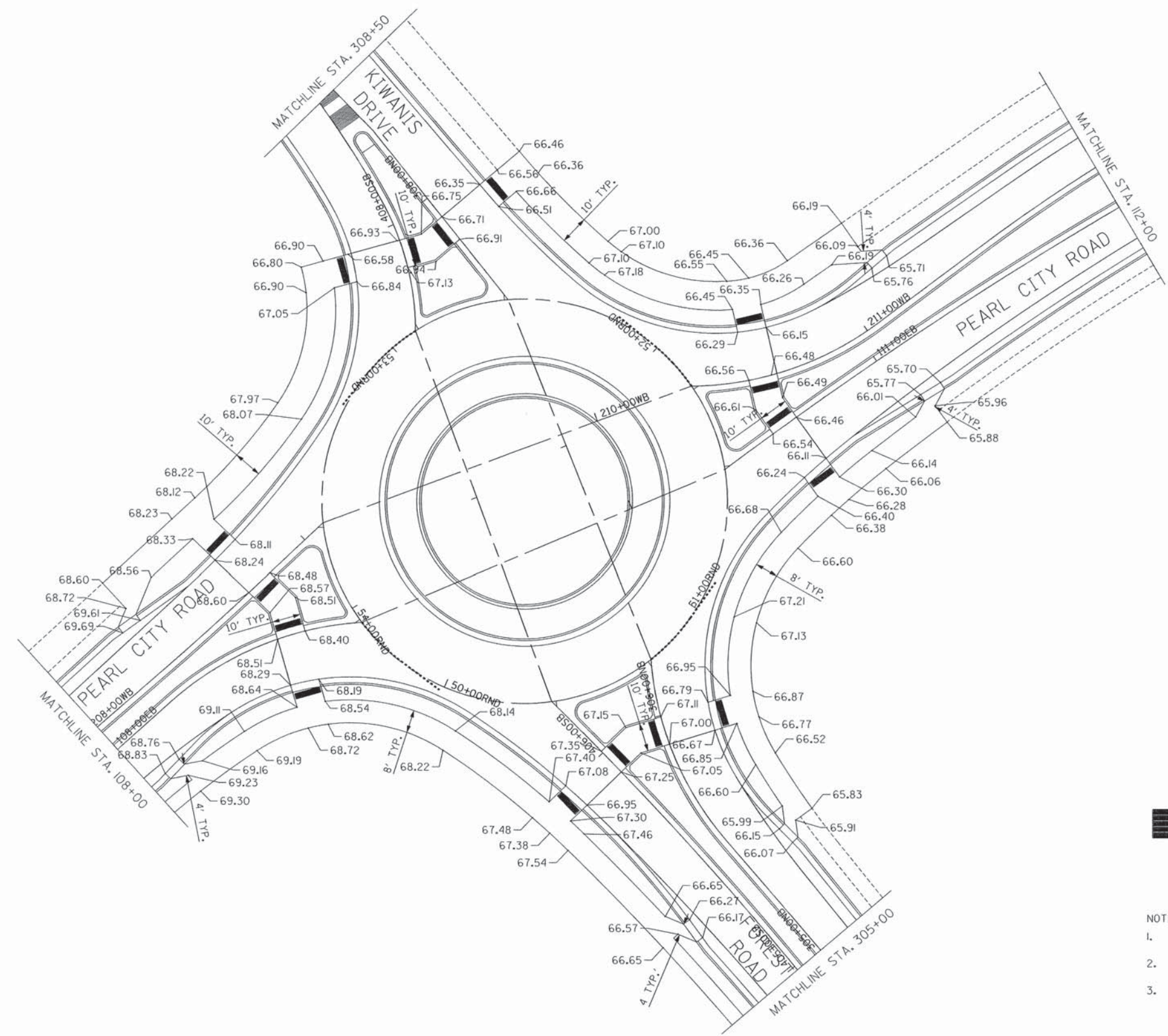
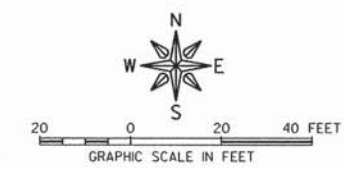
PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
ROUNDBOUT ELEVATION SHEET  
G:\mcrastation\2012-471\plan set\12-471-20 roundabout detail.dgn

JOB NUMBER:  
12-471  
SHEET NUMBER:  
64 of 93



 DETECTABLE WARINGS

- NOTE:
1. POINTS SHOWN REFERENCE PCC SIDEWALK EDGES, END TREATMENTS, AND CURVE SECTIONS.
  2. SIDEWALK RAMPS TO COMPLY WITH ADA/PROWAG GUIDELINES.
  3. ELEVATION DATUM +800.00

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

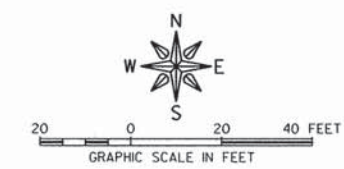
DRAWN BY: YG  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
SIDEWALK ELEVATION SHEET

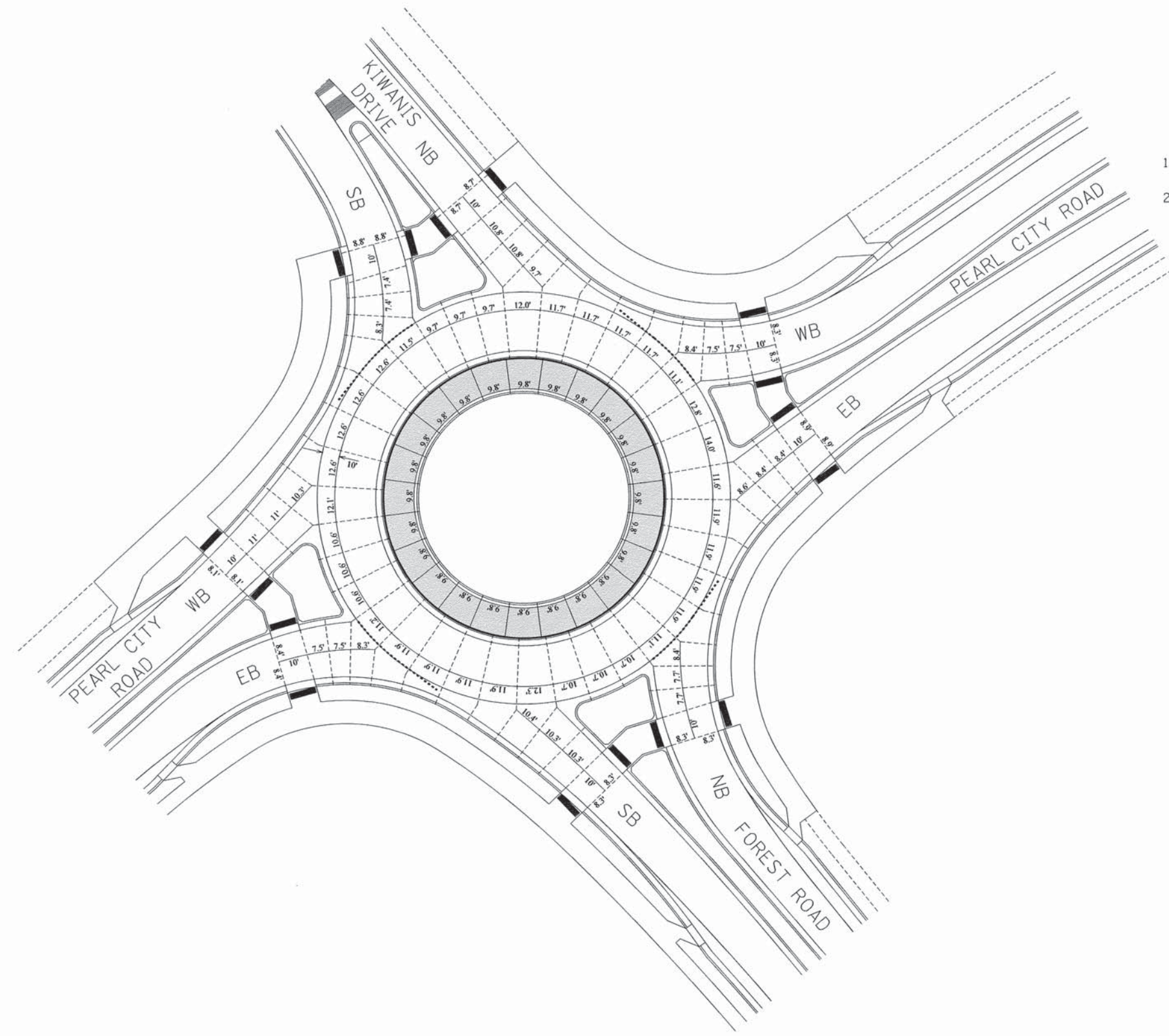
JOB NUMBER:  
12-471

SHEET NUMBER:  
65 of 93



**NOTES**

1. MAXIMUM JOINT SPACING = 15 FEET.
2. TRUCK APRON TRANSVERSE JOINTS SHOULD NOT BE DOWELED OR TIED.



**LEGEND**

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- TRUCK APRON

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

**OWNER/DEVELOPER:**  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

**PROJECT AND LOCATION:**  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

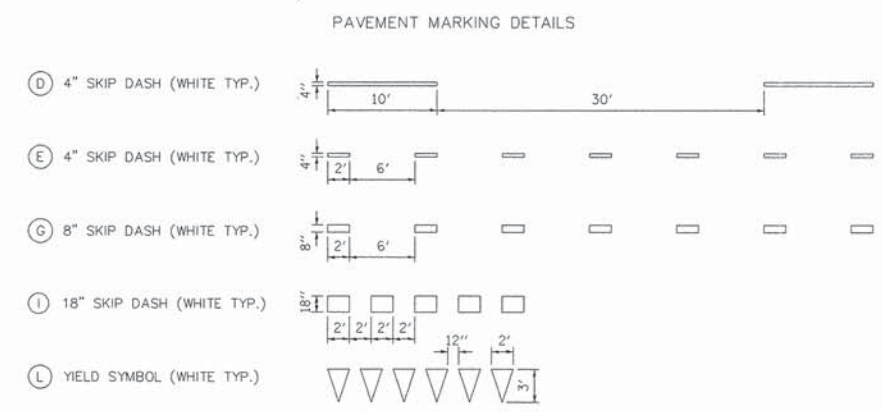
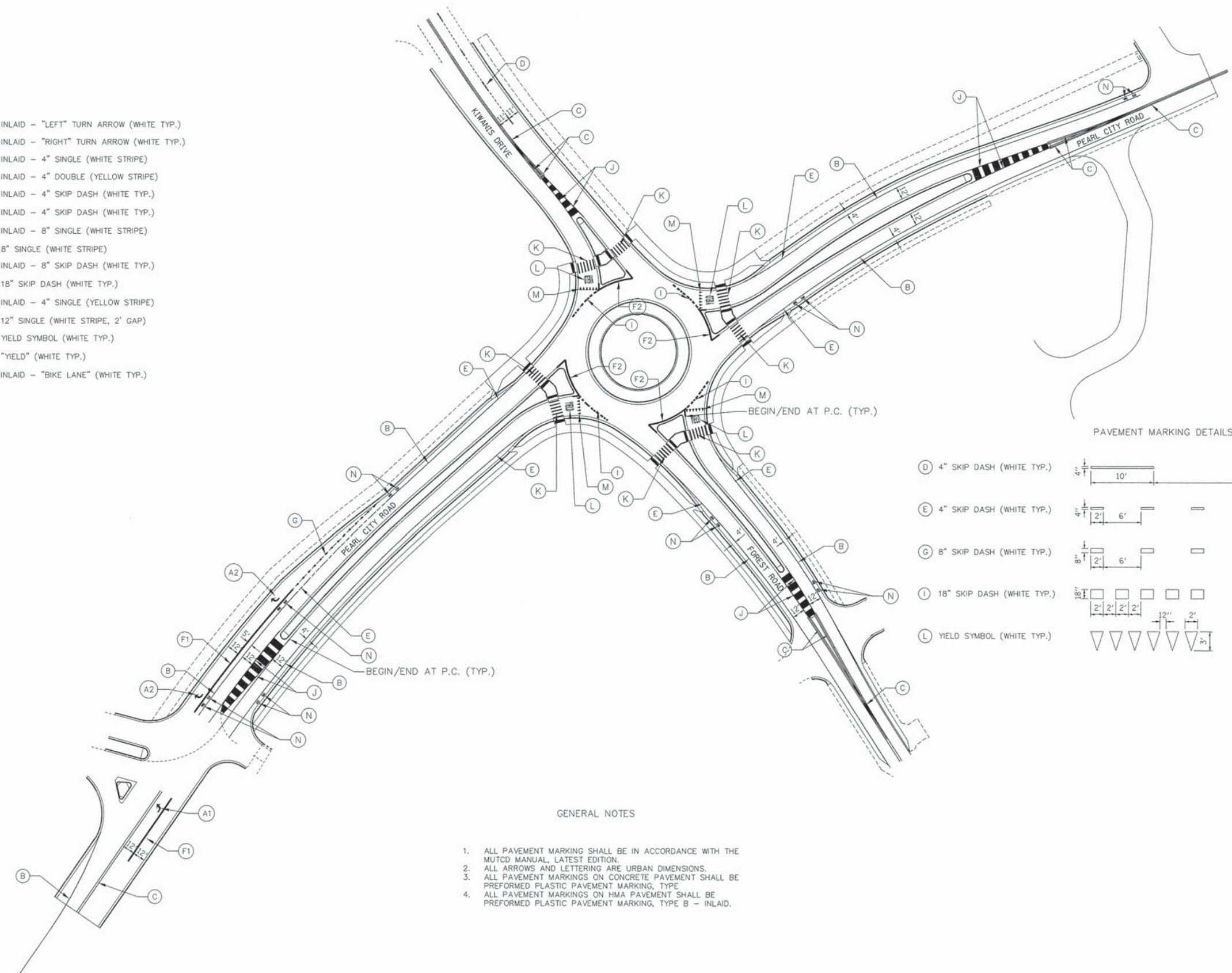
**DRAWN BY:** YG  
**APPROVED BY:** JD  
**DATE:** 01/21/13  
**SCALE:** AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

**DRAWING:**  
 ROUNDABOUT JOINT DETAIL SHEET  
G:\mccrations\2012\12-471\plan set\12-471-2\roundabout joint detail.dgn

**JOB NUMBER:**  
 12-471  
**SHEET NUMBER:**  
 66 of 93

- LEGEND
- (A1) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - "LEFT" TURN ARROW (WHITE TYP.)
  - (A2) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - "RIGHT" TURN ARROW (WHITE TYP.)
  - (B) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 4" SINGLE (WHITE STRIPE)
  - (C) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 4" DOUBLE (YELLOW STRIPE)
  - (D) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 4" SKIP DASH (WHITE TYP.)
  - (E) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 4" SKIP DASH (WHITE TYP.)
  - (F1) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 8" SINGLE (WHITE STRIPE)
  - (F2) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - 8" SINGLE (WHITE STRIPE)
  - (G) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 8" SKIP DASH (WHITE TYP.)
  - (I) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - 18" SKIP DASH (WHITE TYP.)
  - (J) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - 4" SINGLE (YELLOW STRIPE)
  - (K) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - 12" SINGLE (WHITE STRIPE, 2' GAP)
  - (L) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - YIELD SYMBOL (WHITE TYP.)
  - (M) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - "YIELD" (WHITE TYP.)
  - (N) PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - "BIKE LANE" (WHITE TYP.)



- GENERAL NOTES
1. ALL PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MUTCD MANUAL, LATEST EDITION.
  2. ALL ARROWS AND LETTERING ARE URBAN DIMENSIONS.
  3. ALL PAVEMENT MARKINGS ON CONCRETE PAVEMENT SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B.
  4. ALL PAVEMENT MARKINGS ON HMA PAVEMENT SHALL BE PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID.

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525  
© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: E.F.  
APPROVED BY: JD  
DATE: 01/21/13  
SCALE: NTS

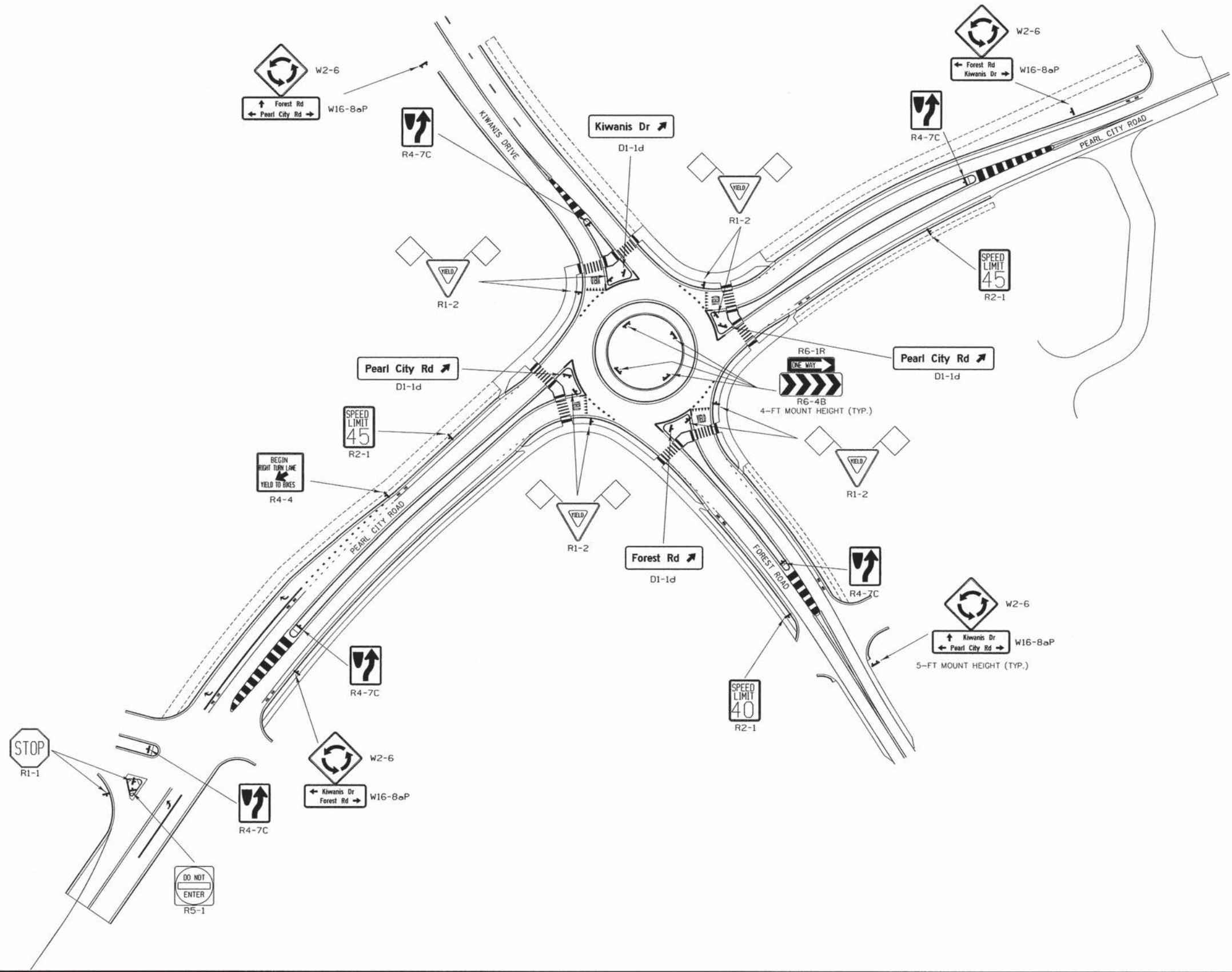
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
PAVEMENT MARKING

JOB NUMBER:  
12-471

SHEET NUMBER:  
67 of 93

G:\vectors\station\2012\12-471\plan set\12-471-22 pavement markings.dgn



GENERAL NOTES

1. ALL SIGNS SHALL BE DIAMOND GRADE REFLECTIVITY LEVEL.
2. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MUTCD MANUAL, LATEST EDITION.
3. FLAGS SHALL BE 18" X 18" REFLECTIVE AND SHALL REMAIN IN PLACE FOR THE FIRST SIX MONTHS OF ROUNDABOUT OPERATION.

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

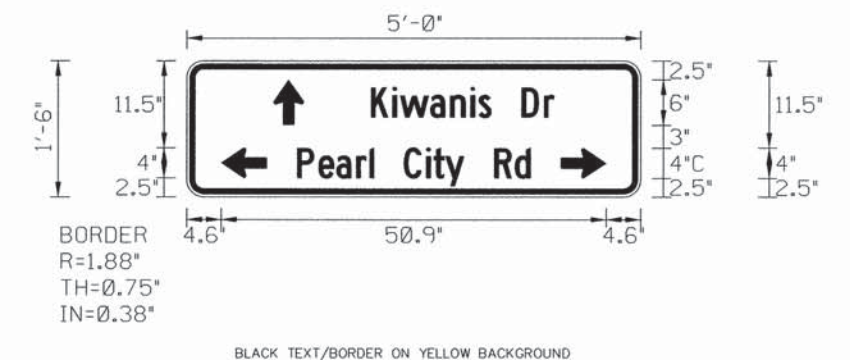
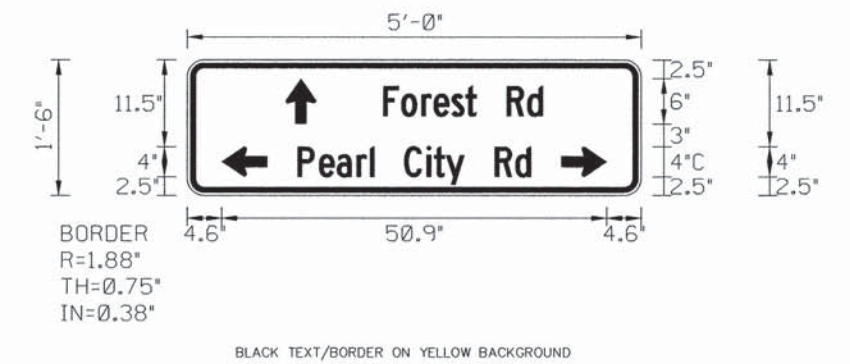
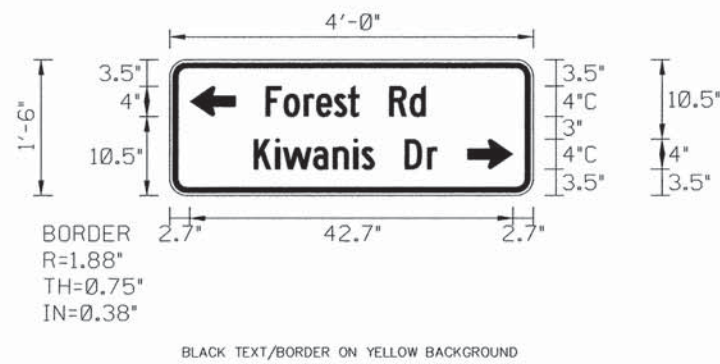
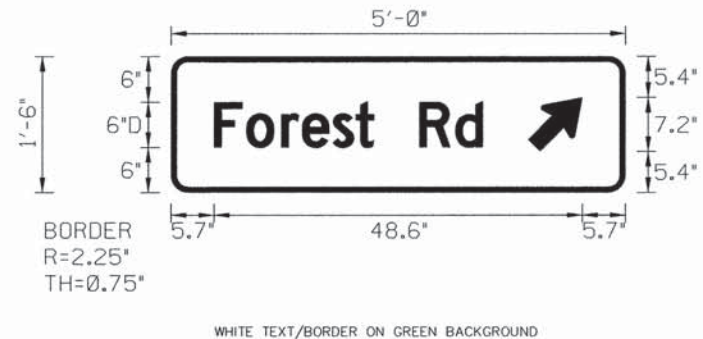
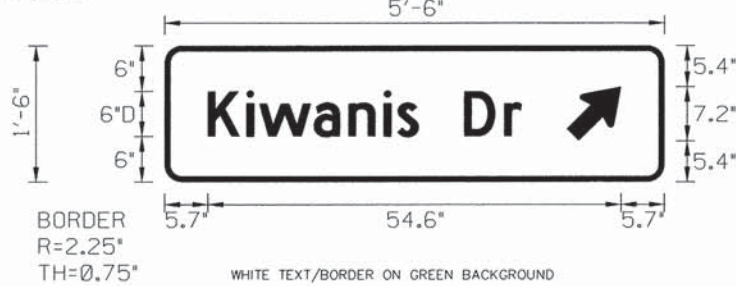
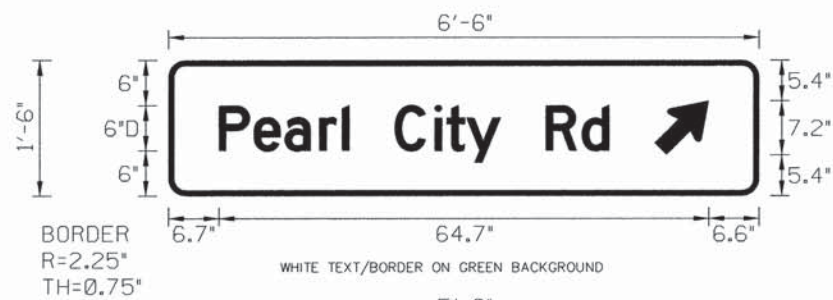
DRAWN BY: E.F.  
 APPROVED BY: JD  
 DATE: 01/21/13  
 SCALE: NTS

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 PERMANENT SIGNAGE

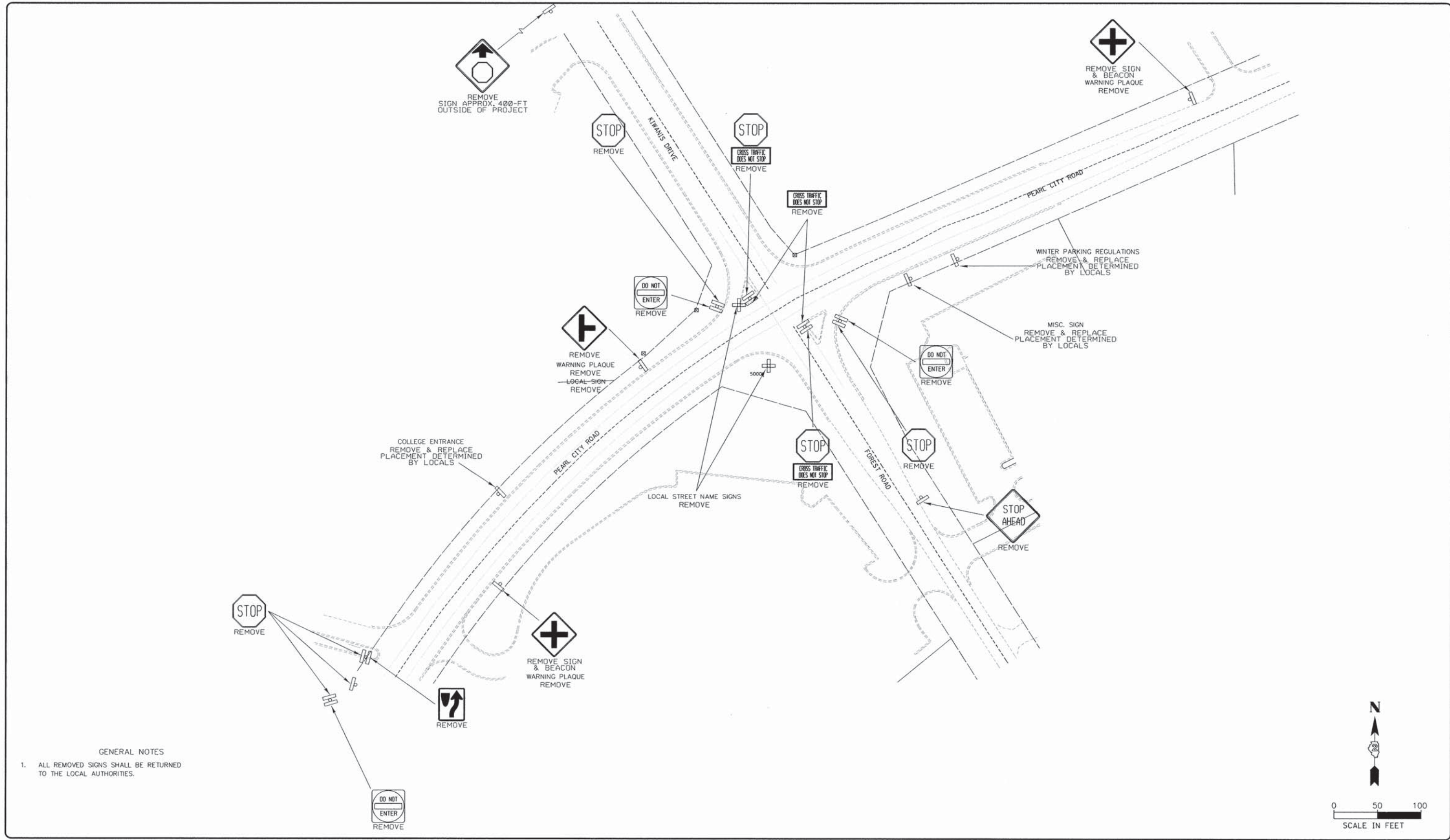
JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 68 of 93

G:\mccreation\2012\12-471\plan set\12-471 - 23 signage.dgn



- GENERAL NOTES
1. ALL SIGNS SHALL BE DIAMOND GRADE REFLECTIVITY LEVEL.
  2. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MUTCD MANUAL, LATEST EDITION.

REVISIONS		
REV. NO.	DESCRIPTION	DATE



GENERAL NOTES  
 1. ALL REMOVED SIGNS SHALL BE RETURNED TO THE LOCAL AUTHORITIES.

**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 01/09/13  
 SCALE: 1"=50'

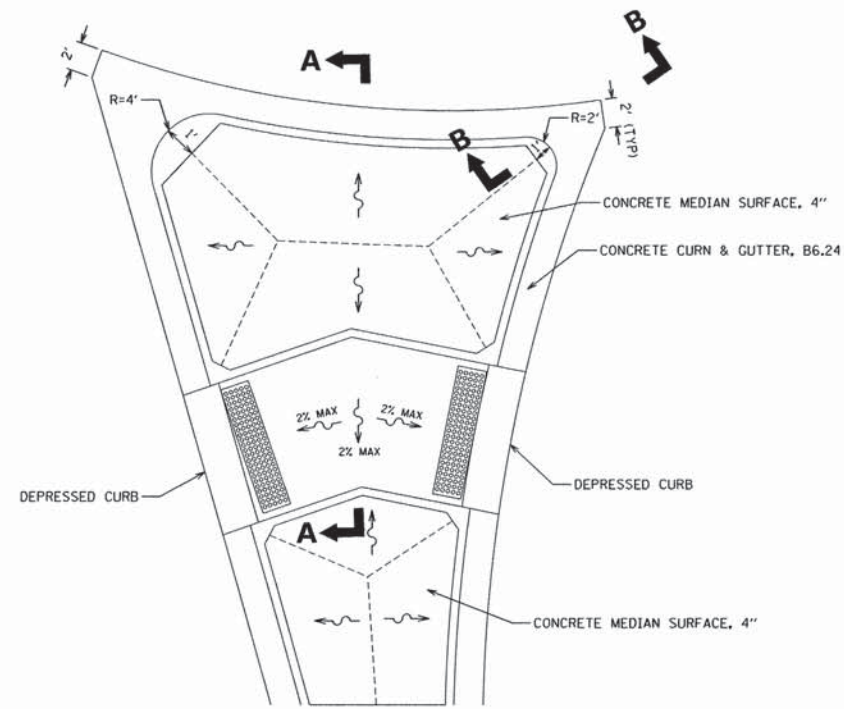
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:  
 SIGNAGE REMOVAL

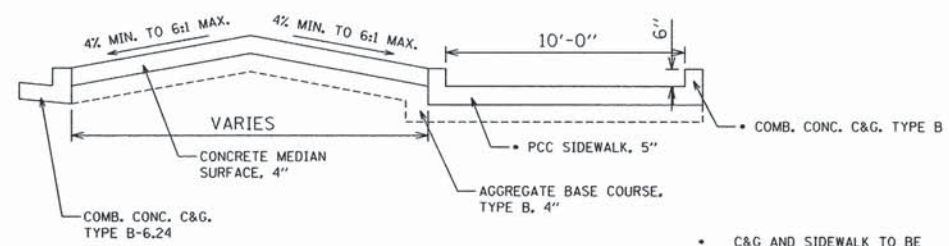
JOB NUMBER:  
 12-471

SHEET NUMBER:  
 70 of 93

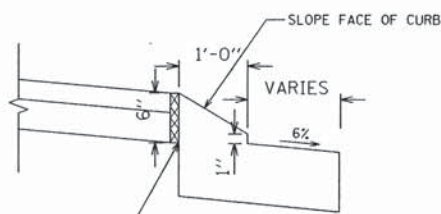
G:\allcrestation\standards\11blocks\fg - 36x22.dgn



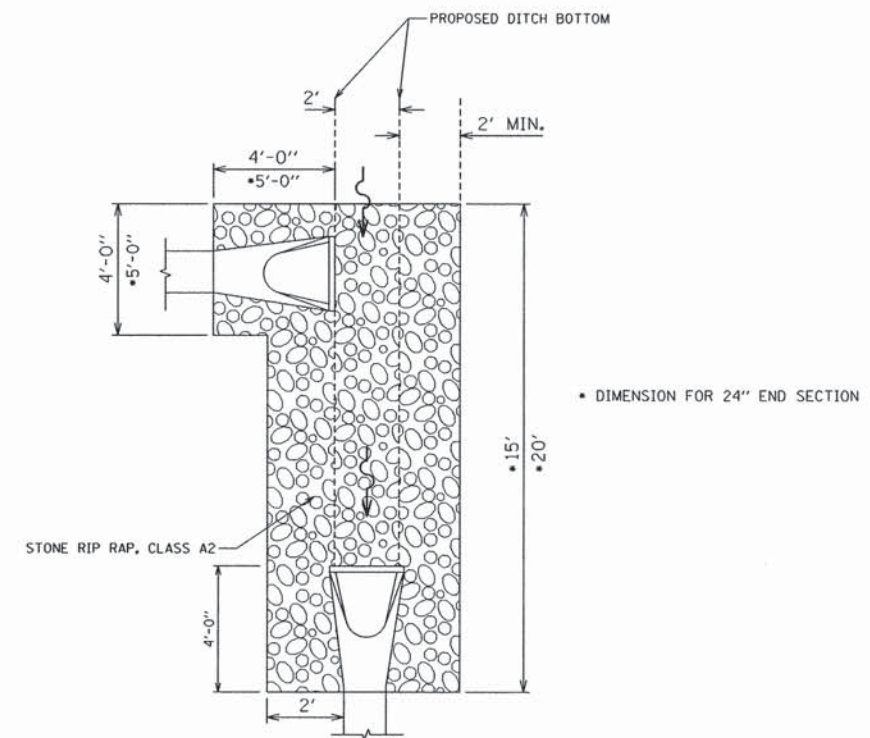
TYPICAL SPLITTER ISLAND END BY ROUNDABOUT  
NOT TO SCALE



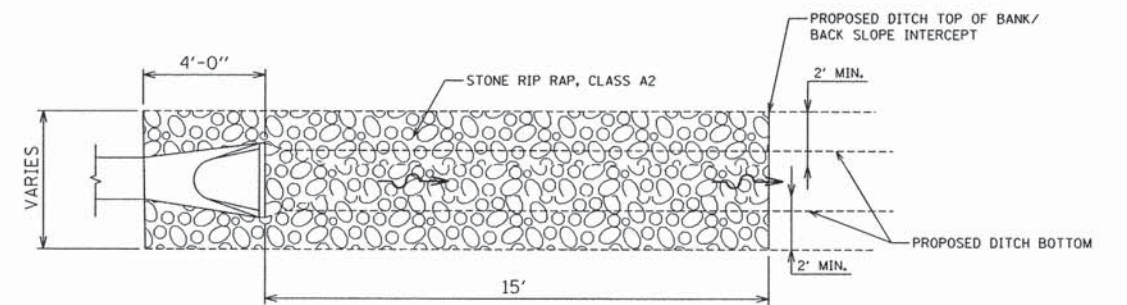
SECTION A-A  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



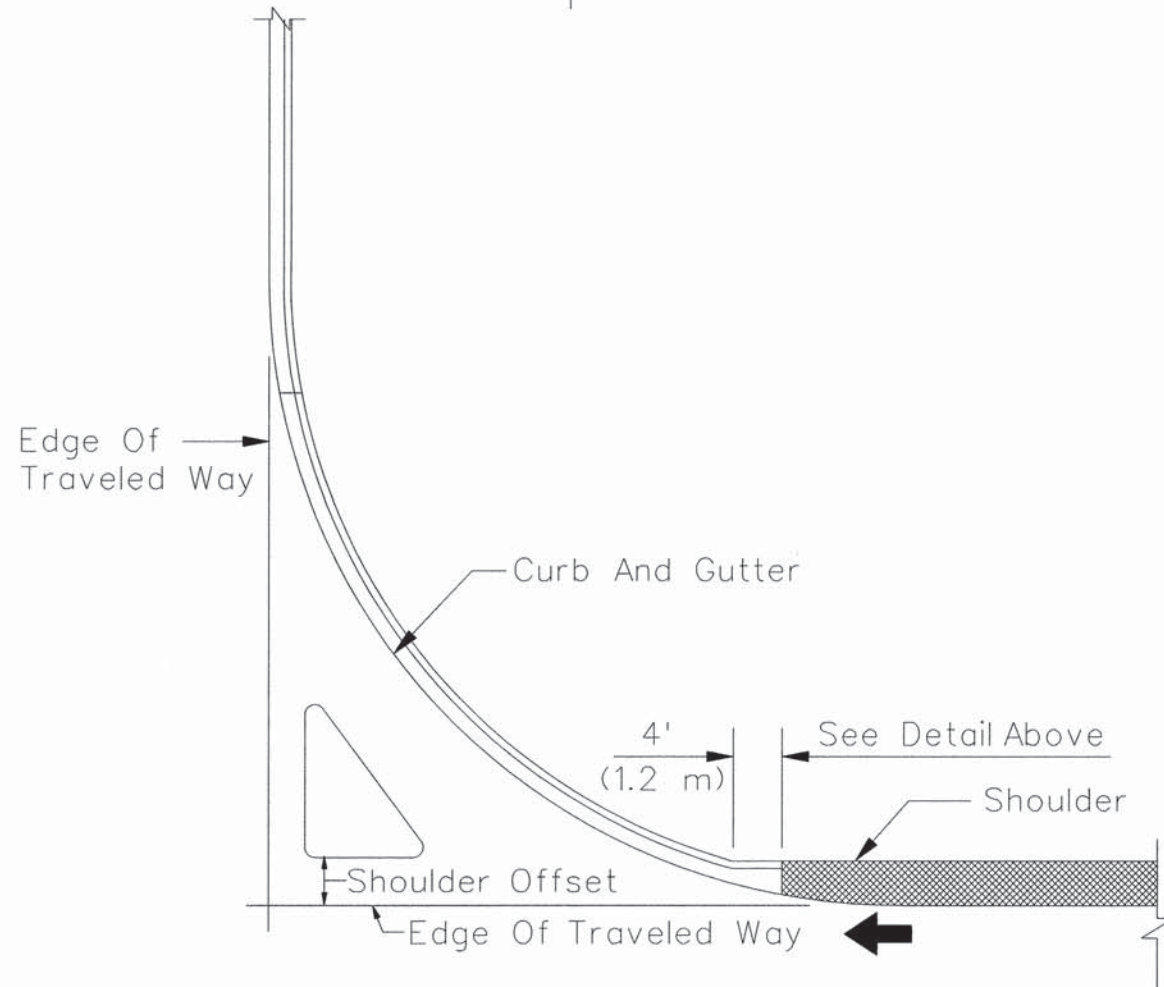
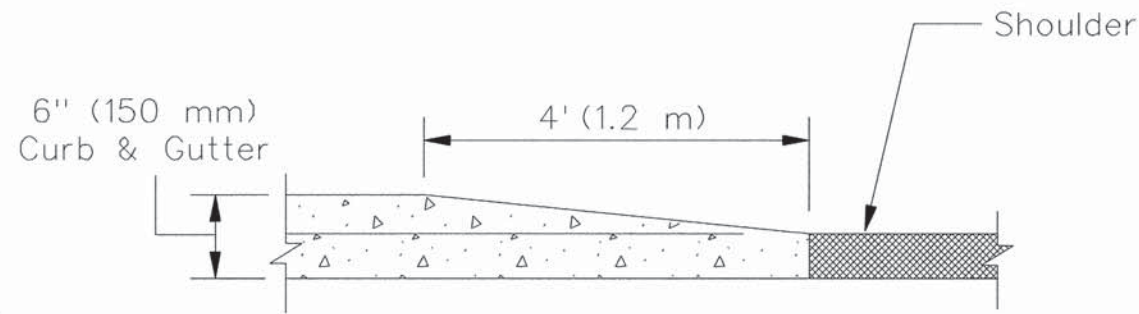
STONE RIP RAP AT 18" AND 24" STORM SEWER END SECTIONS  
NOT TO SCALE



STONE RIP RAP AT 18" CULVERT END SECTION DOWNSTREAM  
NOT TO SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE





**CURB TRANSITIONS**

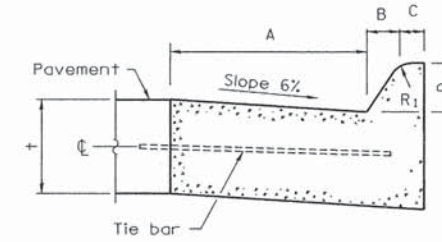
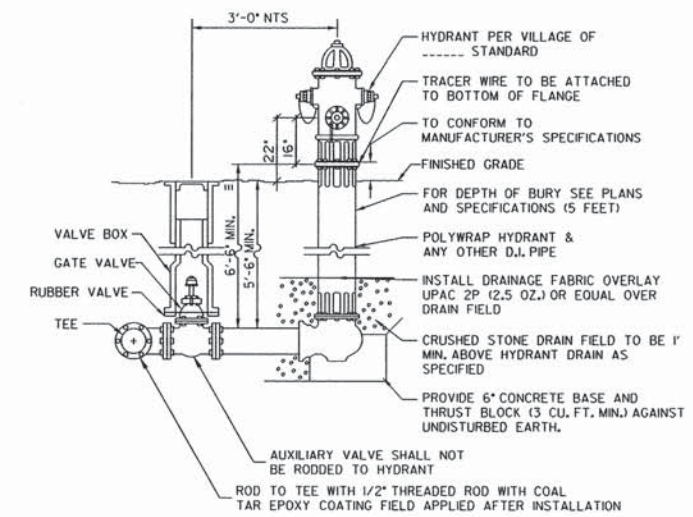


TABLE OF DIMENSIONS MOUNTABLE CURB						
TYPE	A	B	C	D	R <sub>1</sub>	R <sub>2</sub>
M-3.24 (M-10.60)	24 (600)	4 (100)	3 (75)	3 (100)	3 (75)	NA

**COMBINATION CURB AND GUTTER M3.24 DETAIL**



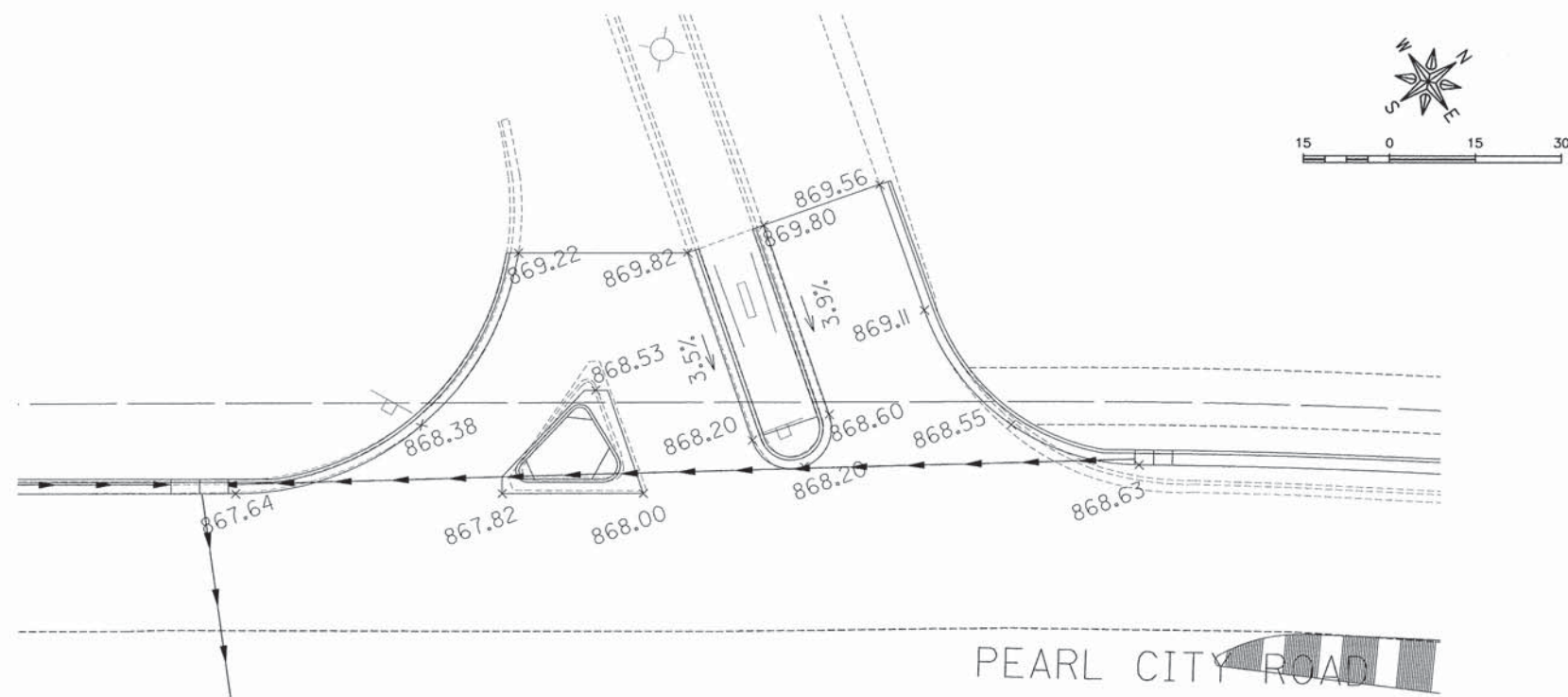
NOTES:  
CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK  
NOR OBSTRUCT HYDRANT DRAIN.

HYDRANT INSTALLATION COMPLETE SHALL INCLUDE HYDRANT,  
GATE VALVE, VALVE BOX, HYDRANT BRANCH PIPE, AND TEE.  
THIS UNIT SHALL BE PAID FOR AT CONTRACT UNIT PRICE  
PER EACH FOR HYDRANT INSTALLATION COMPLETE.

HYDRANT INSTALLATION  
N.T.S.

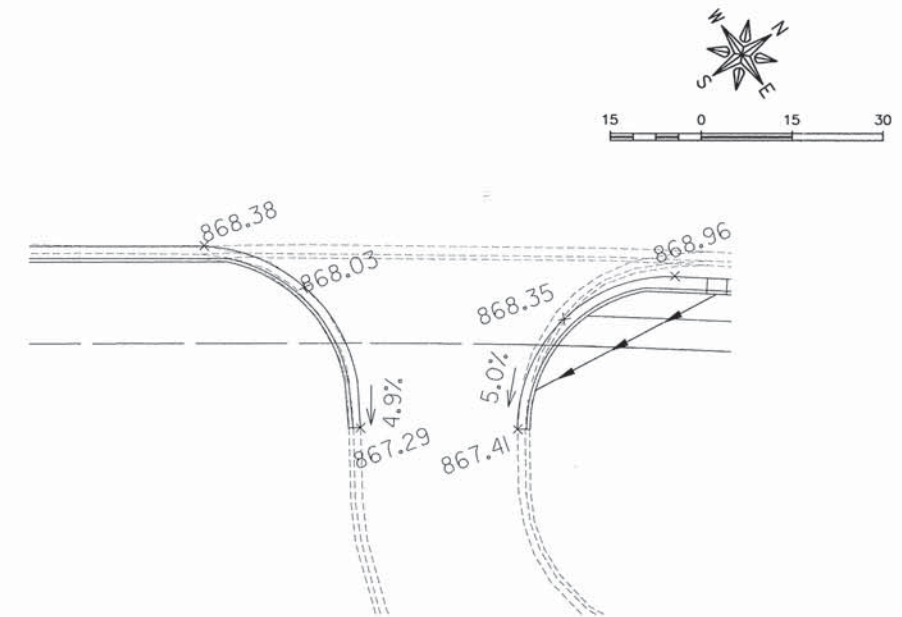
**FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE DETAIL**

REVISIONS		
REV. NO.	DESCRIPTION	DATE

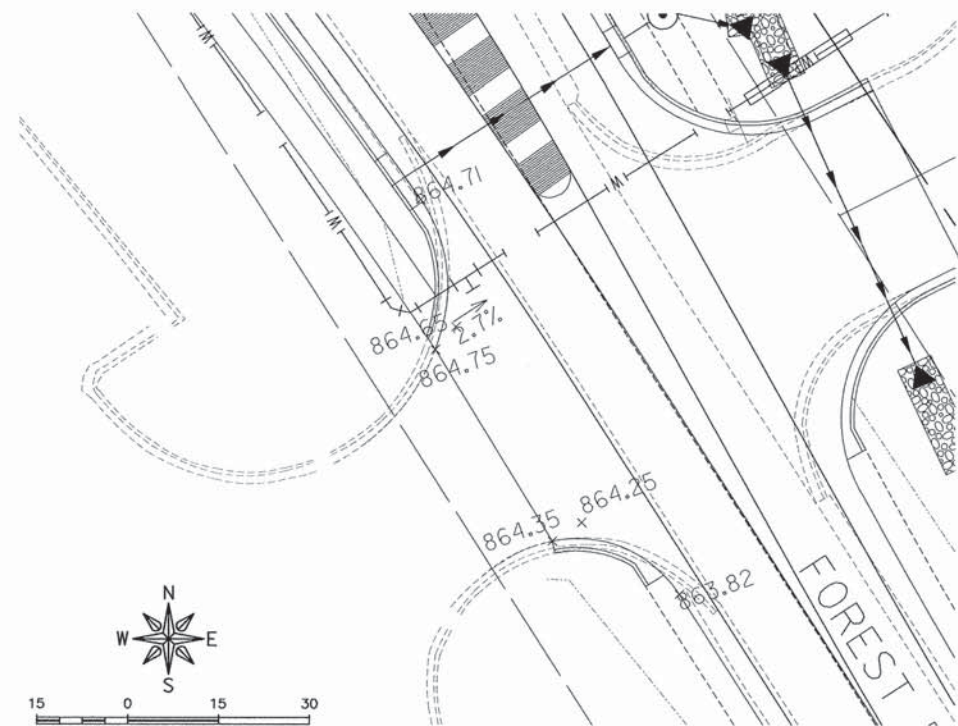


HIGHLAND COLLEGE ENTRANCE  
STA. 202+65.49 (WB) TO 204+21.06 (WB)

PEARL CITY ROAD

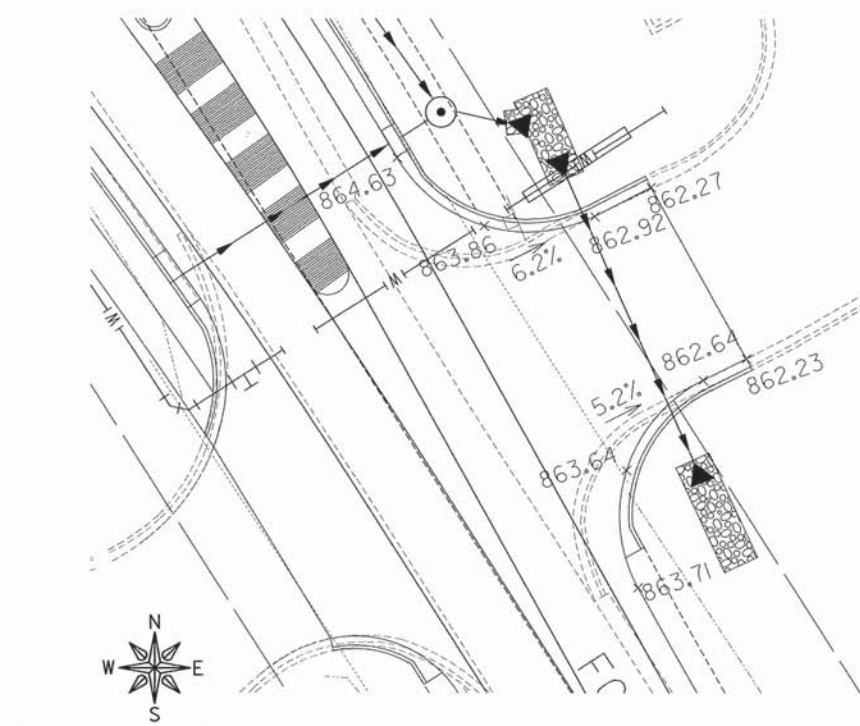


HERITAGE WOODS ENTRANCE  
STA. 103+50.57 (EB) TO 104+58.88 (EB)



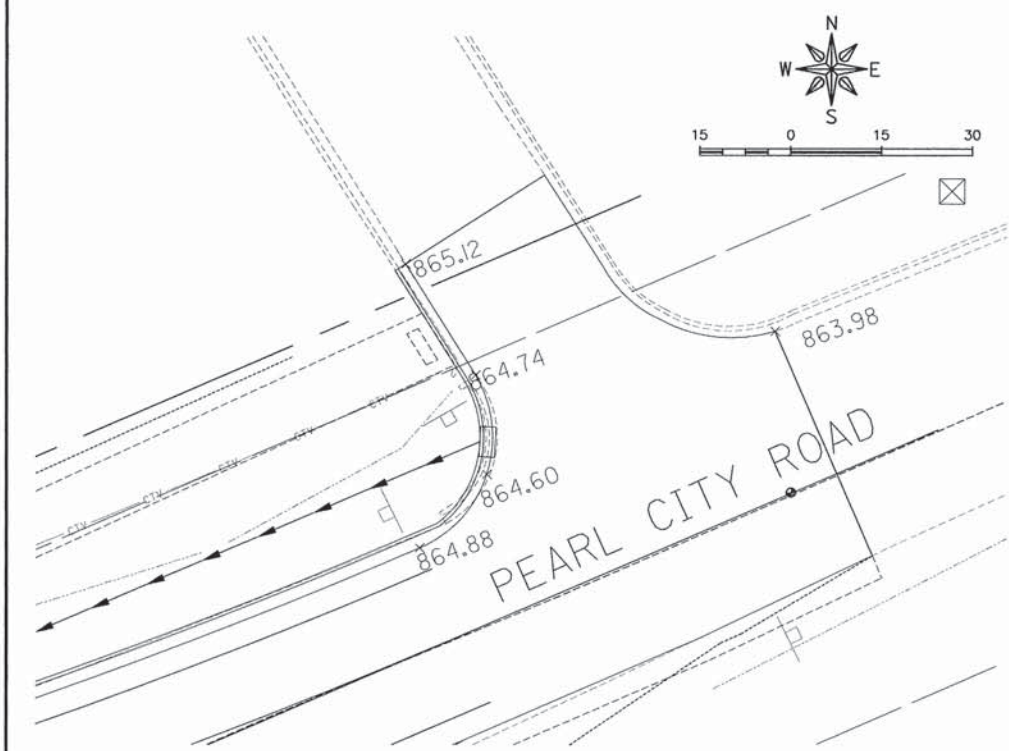
HERITAGE WOODS ENTRANCE  
STA. 403+16.76 (SB) TO 403+95.39 (SB)

FOREST



CITIZENS BANK ENTRANCE  
STA. 303+16.35 (NB) TO 303+97.40 (NB)

EC



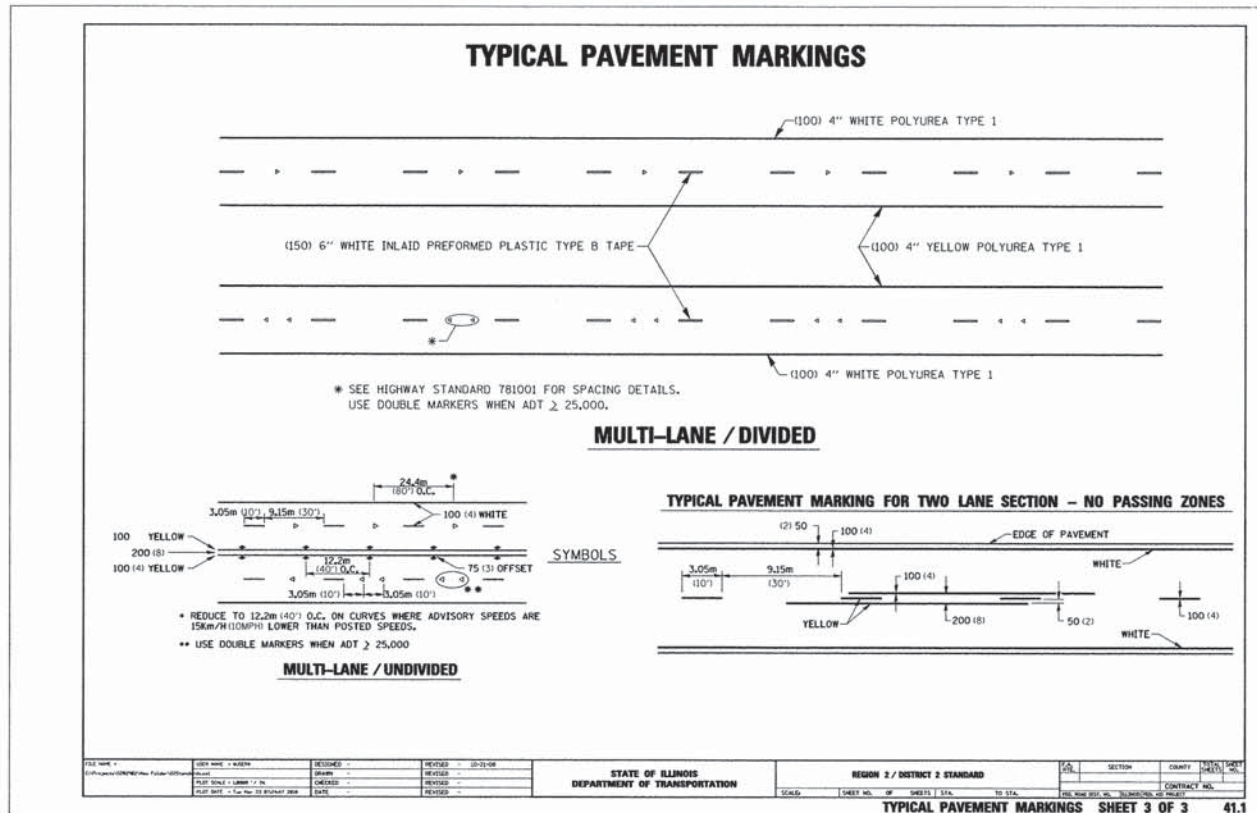
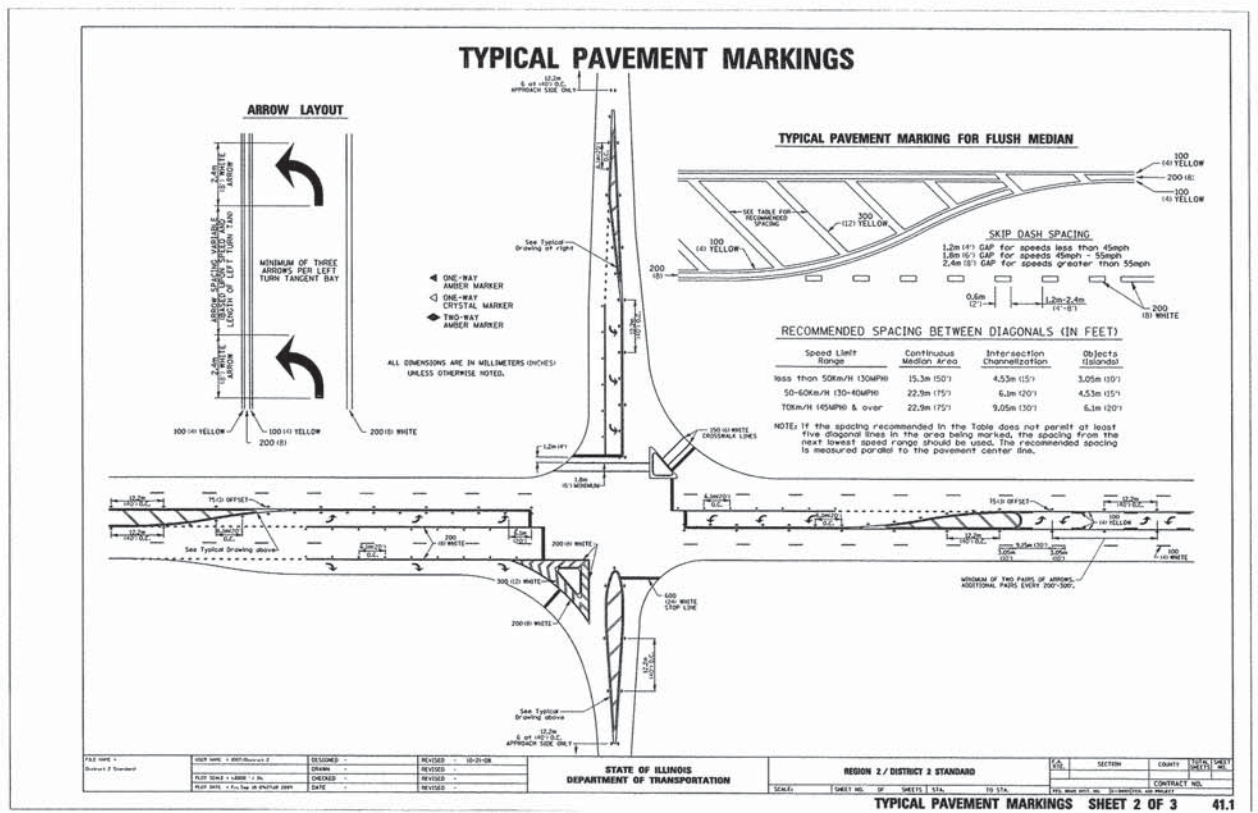
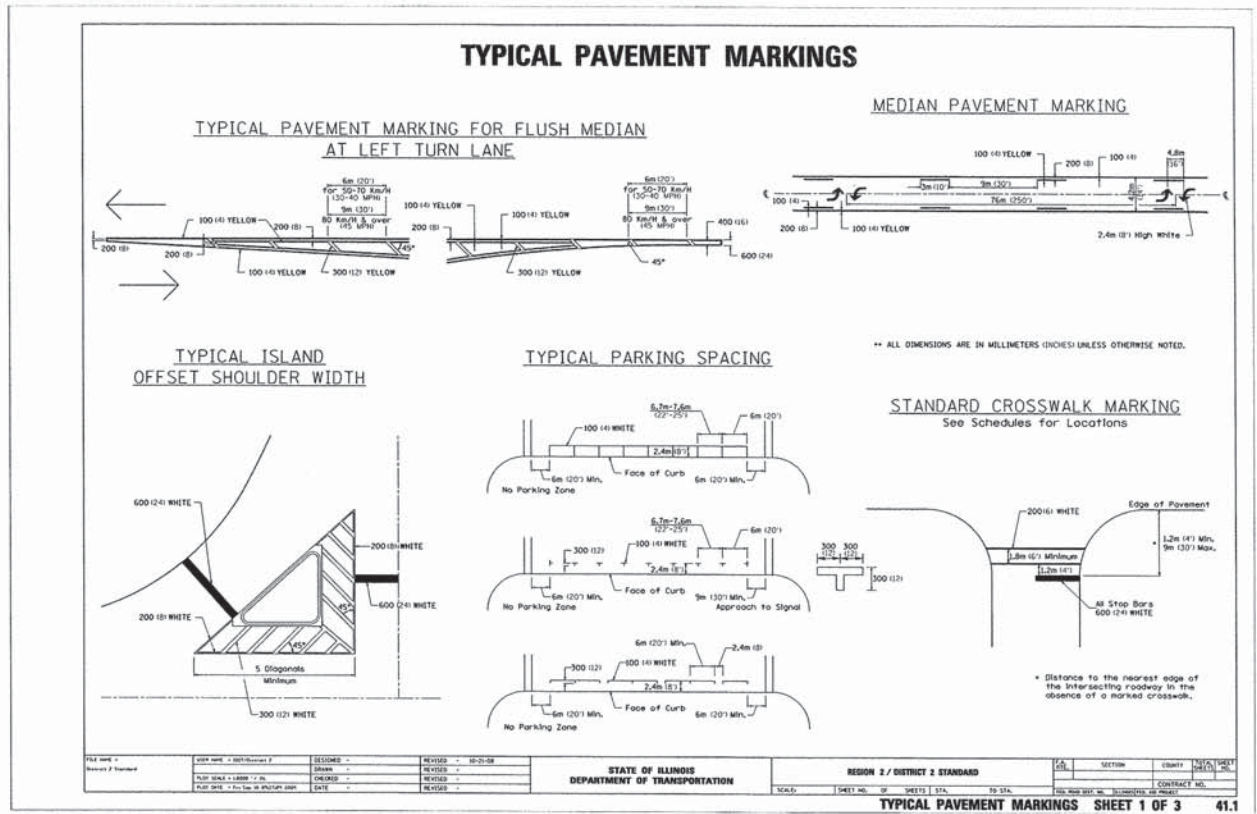
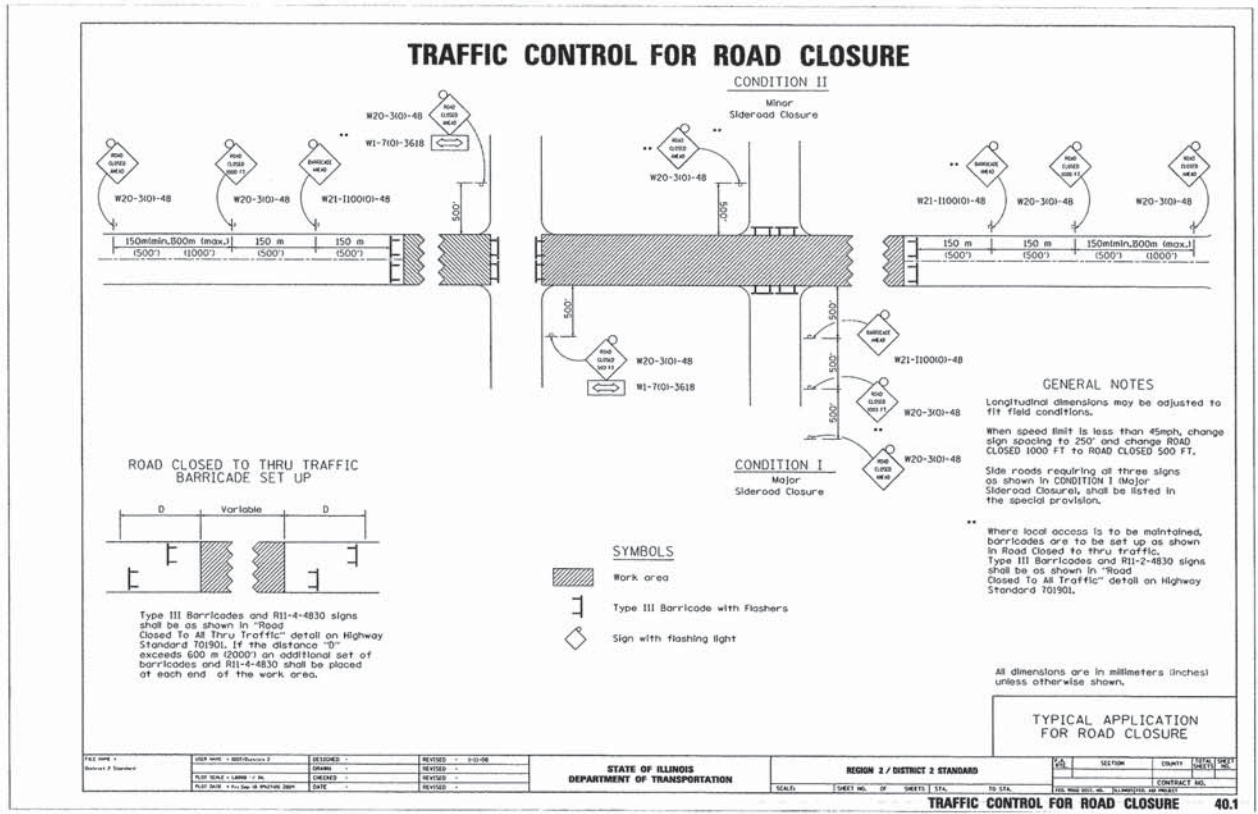
QBE ENTRANCE  
STA. 215+06.97 (WB) TO 216+75.00 (WB)

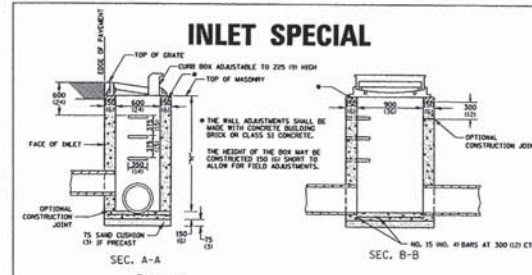
PEARL CITY ROAD

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING: ENTRANCE DETAIL SHEET
G:\m\croatator\2012\2-471\plan_set\2-471 - 8 tie-off.dgn

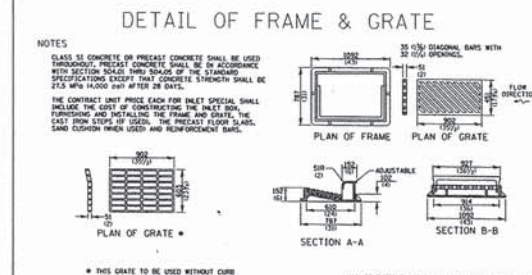
JOB NUMBER: 12-471
SHEET NUMBER: 73 of 93





**INLET SPECIAL**

NOTES  
SEE STANDARD SPECIFICATIONS FOR DETAILS OF STEPS.  
EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.  
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.  
ALL Voids AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.  
WEIGHT OF CAST IRON FRAME & GRATE = 240 Kg (530 LBS.) \* STEPS SHALL BE OMITTED WHEN DEPTH OF "A" IS LESS THAN 150 mm (6")

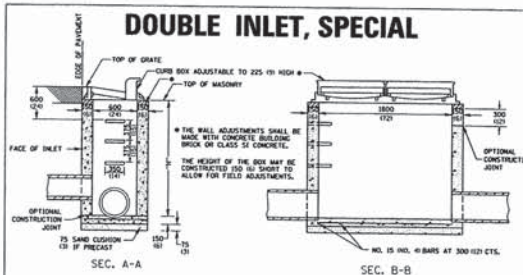


REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1:1000 (1" = 10')

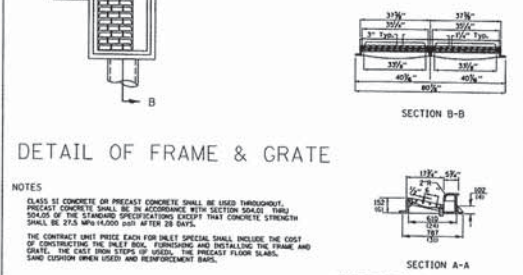
REGION 2 / DISTRICT 2 STANDARD

INLET SPECIAL 10.2



**DOUBLE INLET, SPECIAL**

NOTES  
SEE STANDARD SPECIFICATIONS FOR DETAILS OF STEPS.  
EXCEPT AS NOTED HEREON DOUBLE INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.  
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.  
ALL Voids AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.  
WEIGHT OF CAST IRON FRAME & GRATE = 240 Kg (530 LBS.) \* STEPS SHALL BE OMITTED WHEN DEPTH OF "A" IS LESS THAN 150 mm (6")

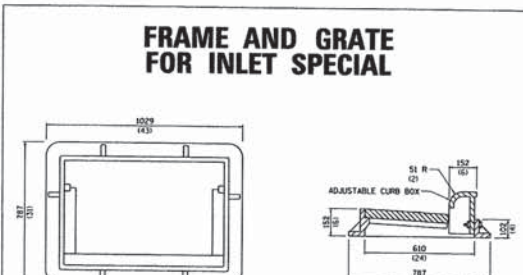


REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1:1000 (1" = 10')

REGION 2 / DISTRICT 2 STANDARD

DOUBLE INLET, SPECIAL 12.2



**FRAME AND GRATE FOR INLET SPECIAL**

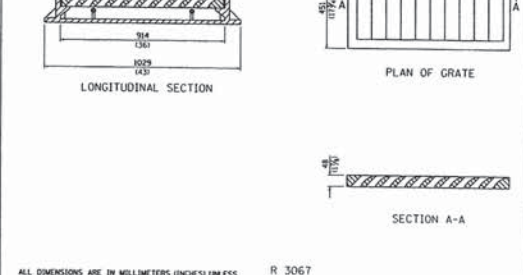
PLAN OF FRAME WITHOUT GRATE AND CURB BOX

TRANSVERSE SECTION

LONGITUDINAL SECTION

PLAN OF GRATE

SECTION A-A

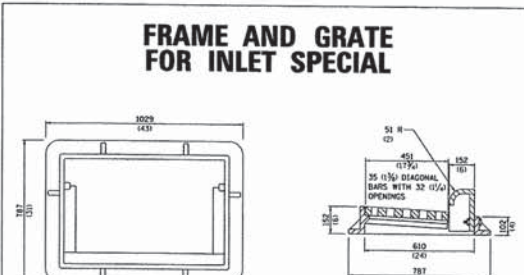


REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1:1000 (1" = 10')

REGION 2 / DISTRICT 2 STANDARD

FRAME AND GRATE FOR INLET SPECIAL 13.2a



**FRAME AND GRATE FOR INLET SPECIAL**

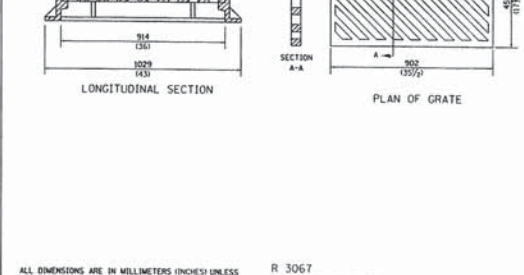
PLAN OF FRAME WITHOUT GRATE AND CURB BOX

TRANSVERSE SECTION

LONGITUDINAL SECTION

PLAN OF GRATE

SECTION A-A

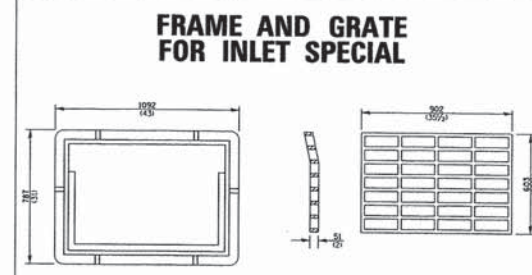


REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1:1000 (1" = 10')

REGION 2 / DISTRICT 2 STANDARD

FRAME AND GRATE FOR INLET SPECIAL 13.2c



NOTES  
THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

APPROXIMATE WEIGHT OF CAST IRON FRAME & GRATE = 240 Kg (530 LBS.)

REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1:1000 (1" = 10')

REGION 2 / DISTRICT 2 STANDARD

FRAME AND GRATE FOR INLET SPECIAL 13.2d

**CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED (DETAILS FOR CURB & GUTTER REPLACEMENT)**

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS S1 CONCRETE SHALL BE USED THROUGHOUT. A HOLE 40 (1 1/2) IN DIAMETER AND 225 (9) DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 32x450 (1 1/4 x 18) SMOOTH DOWEL BAR SHALL BE GRouted IN THE HOLE LONGITUDINALLY.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

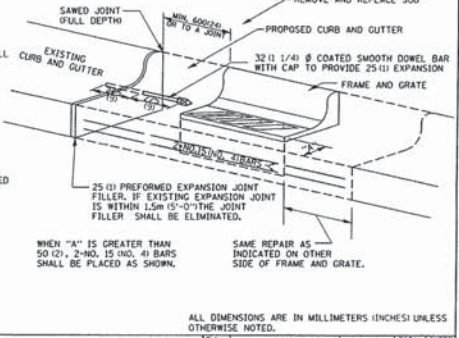
THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

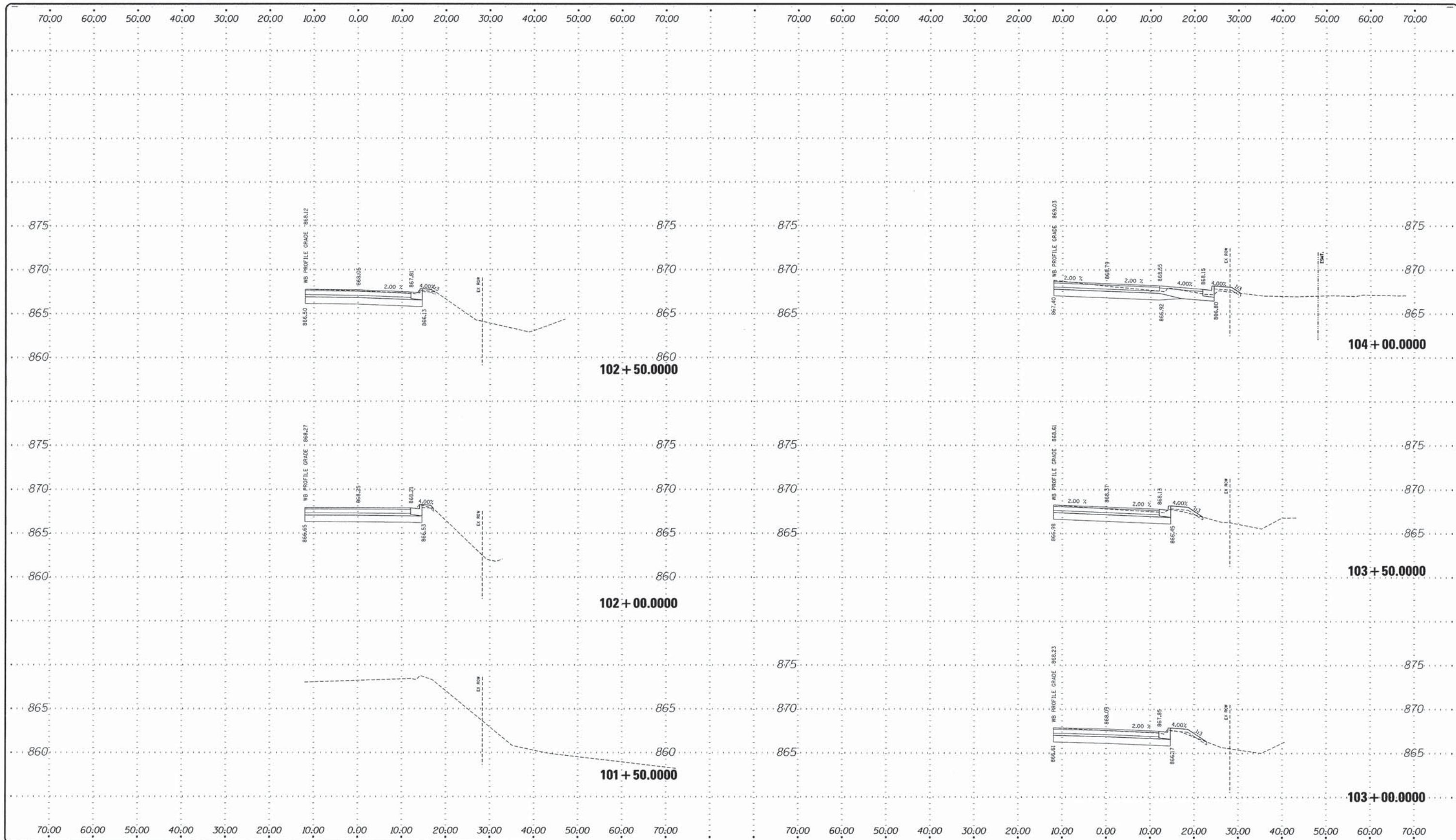
SCALE: 1:1000 (1" = 10')

REGION 2 / DISTRICT 2 STANDARD

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED 17.4a

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING: DETAILS	JOB NUMBER: 12-471
	SHEET NUMBER: 75 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 084-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

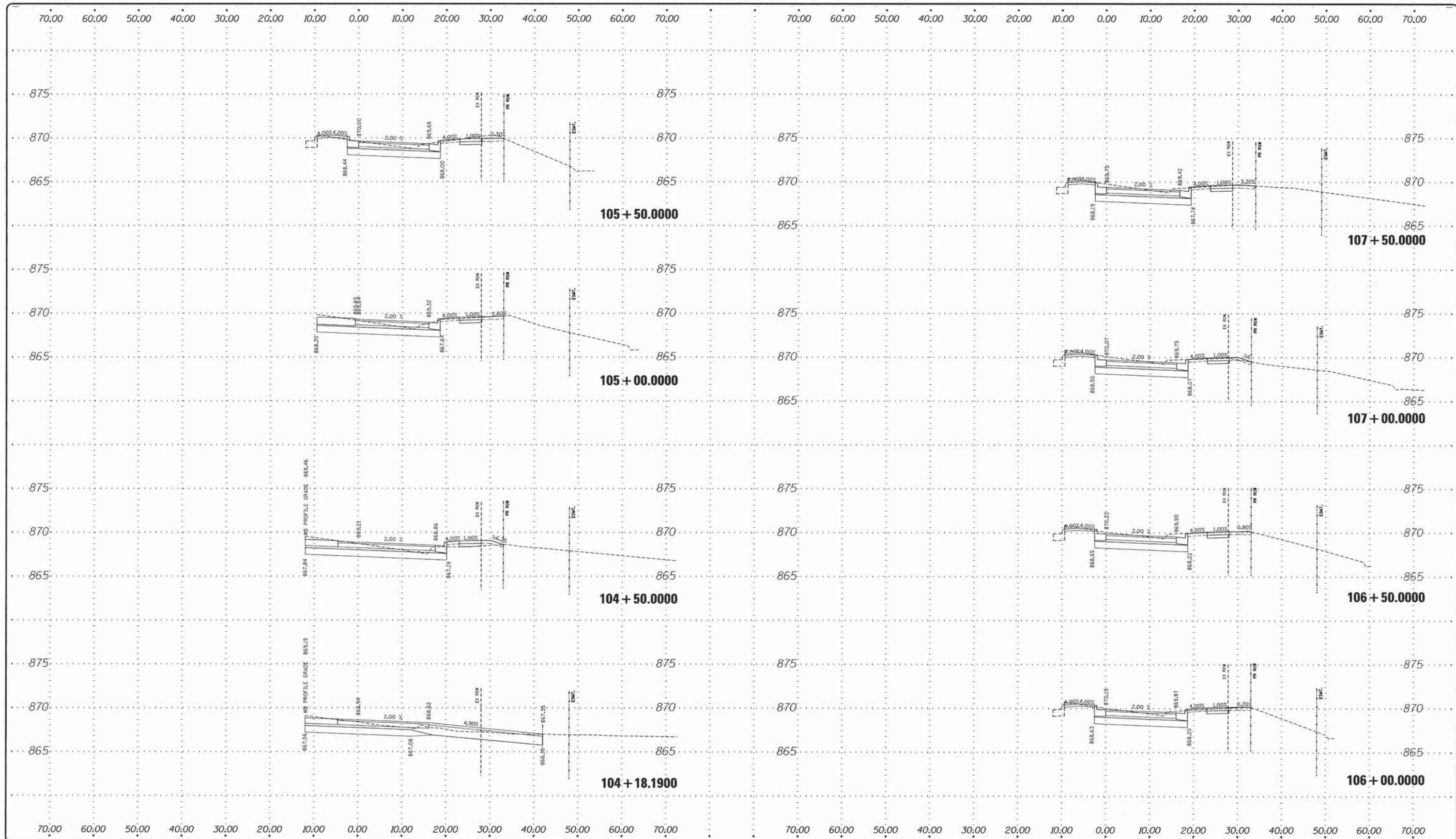
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-EB  
 G:\mlcrstn\2012-12-47\plan set\12-471-27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 76 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

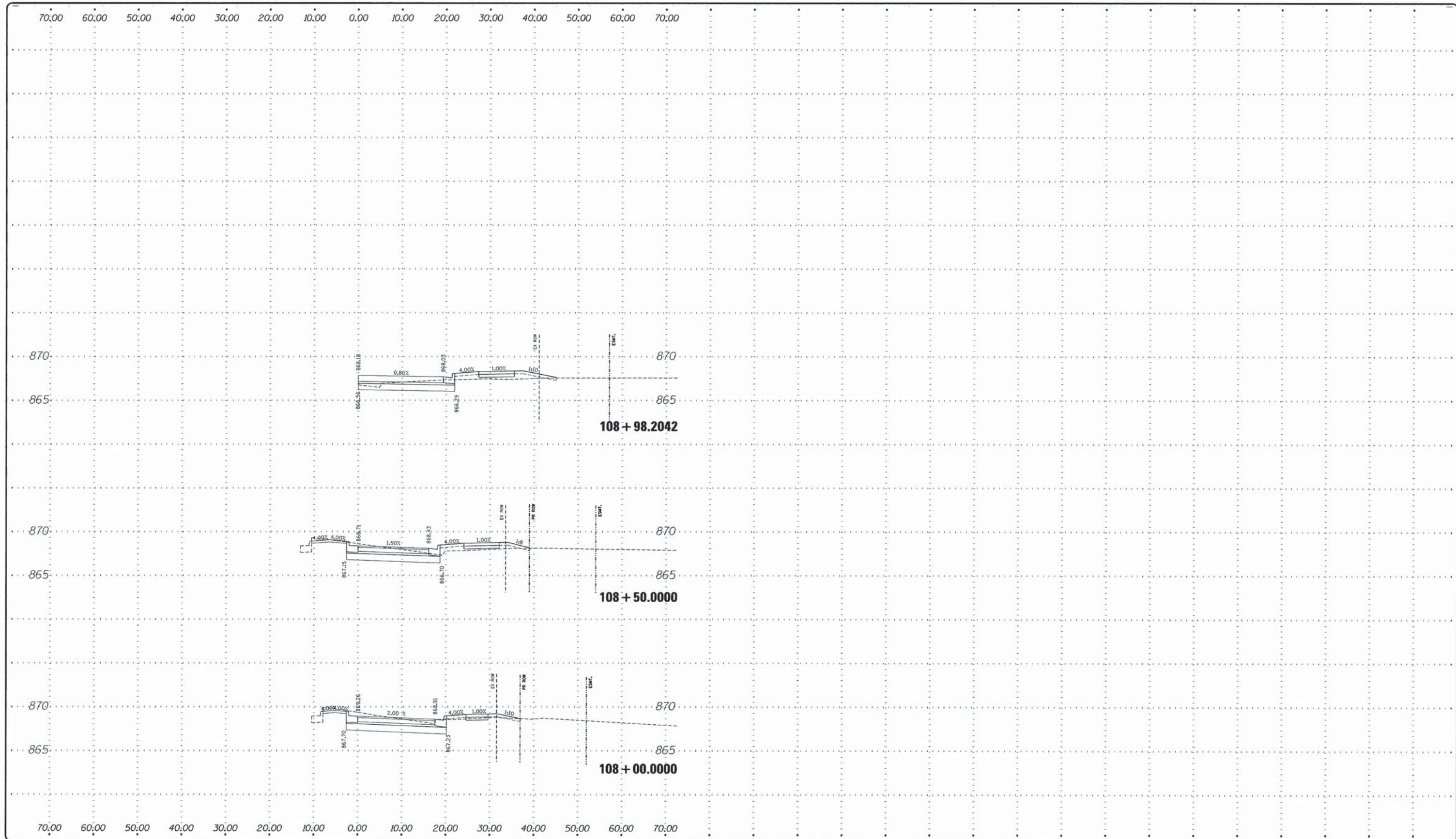
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-EB

JOB NUMBER:  
 12-471

SHEET NUMBER:  
 77 of 93

G:\mlcrsstation\2012\12-471\plan set\12-471-27 crosssections.dgn



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 04-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 05/06/13  
SCALE: 10 SCALE

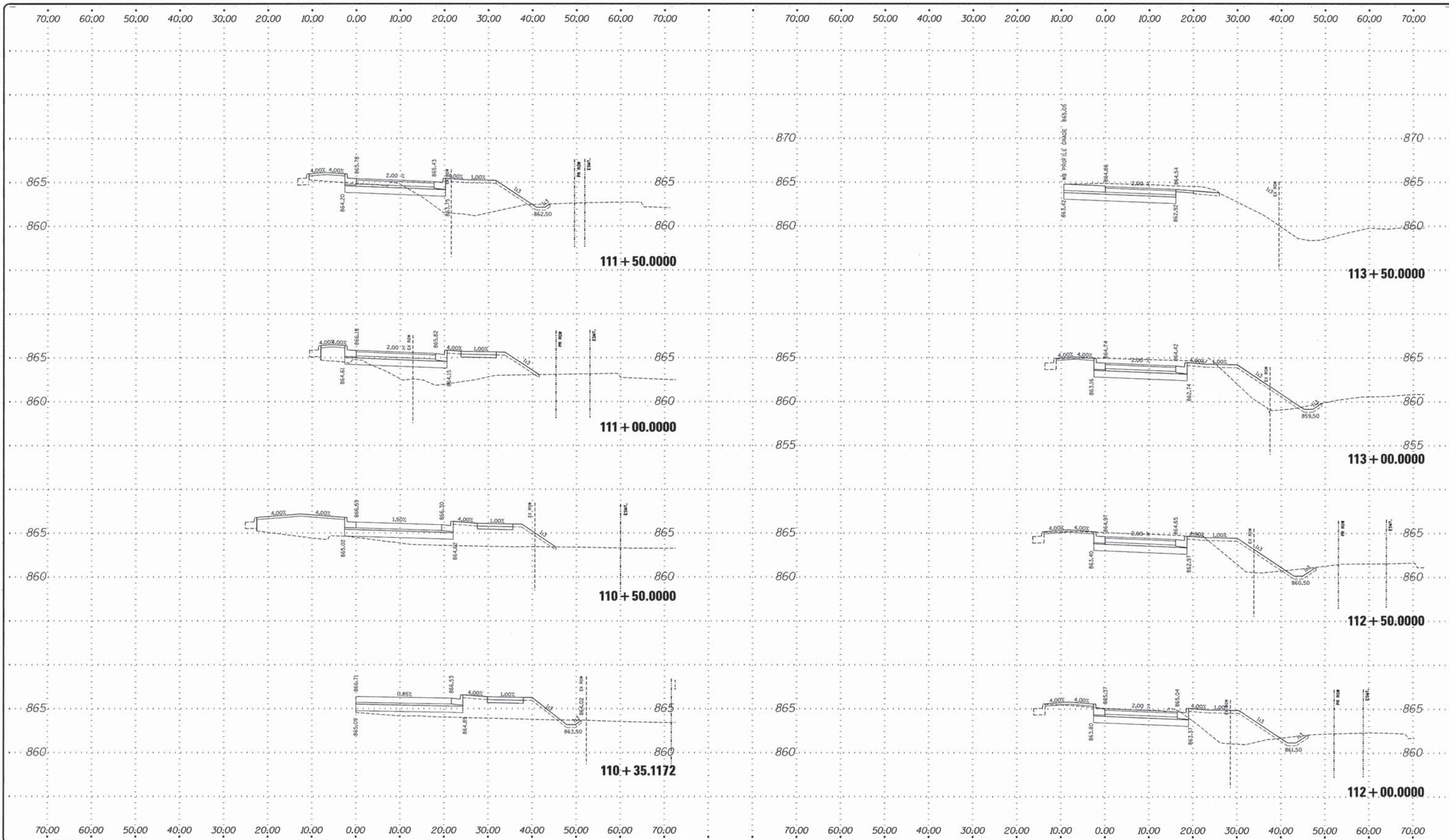
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
CROSS SECTIONS  
PEARL CITY ROAD-EB

JOB NUMBER:  
12-471

SHEET NUMBER:  
78 of 93

G:\micrastation\2012\12-471\plan set\12-471-27 crosssections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

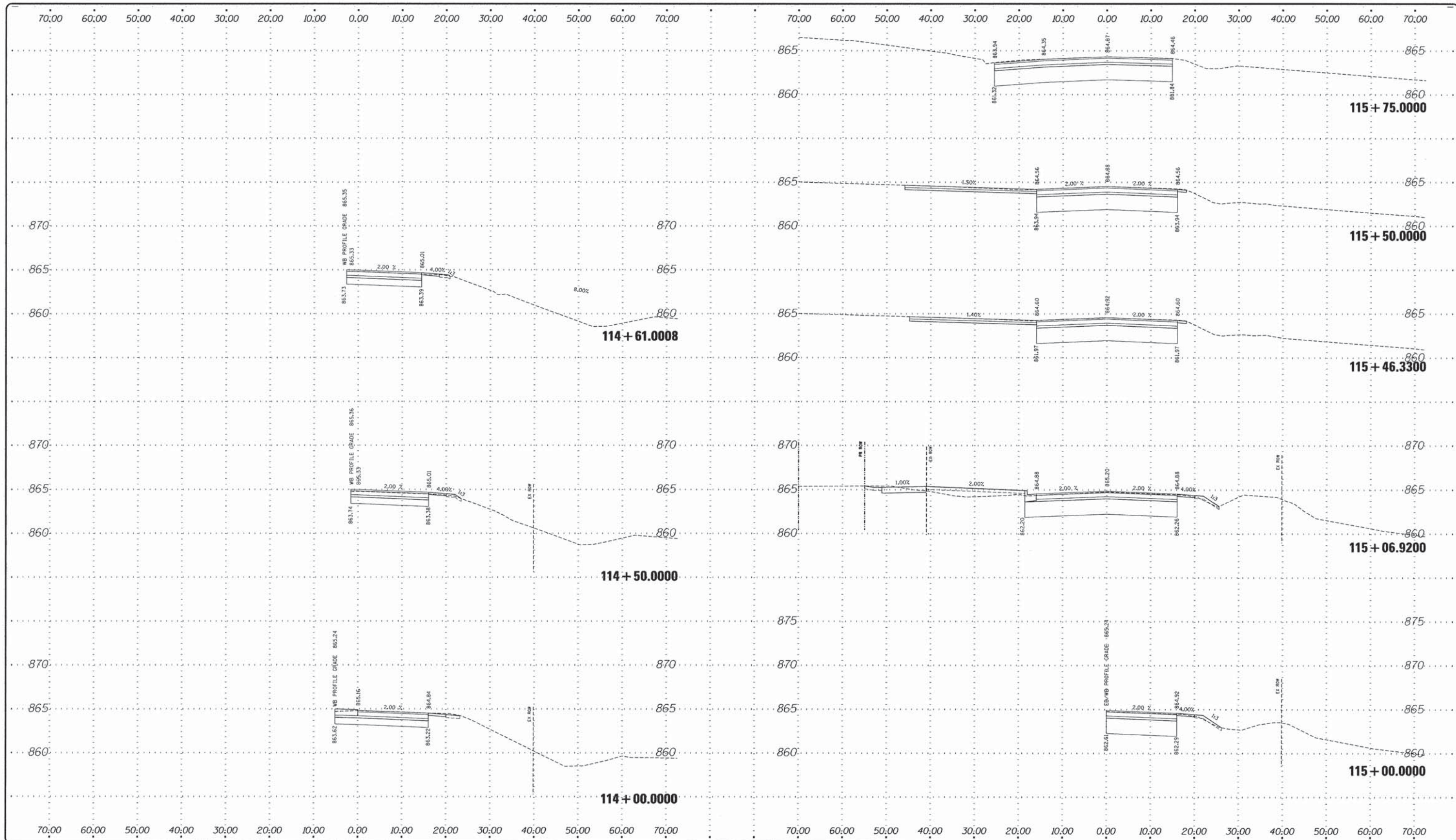
DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-EB  
 G:\alcrastation\2012\12-471\plan set\12-471-27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 79 of 93





**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

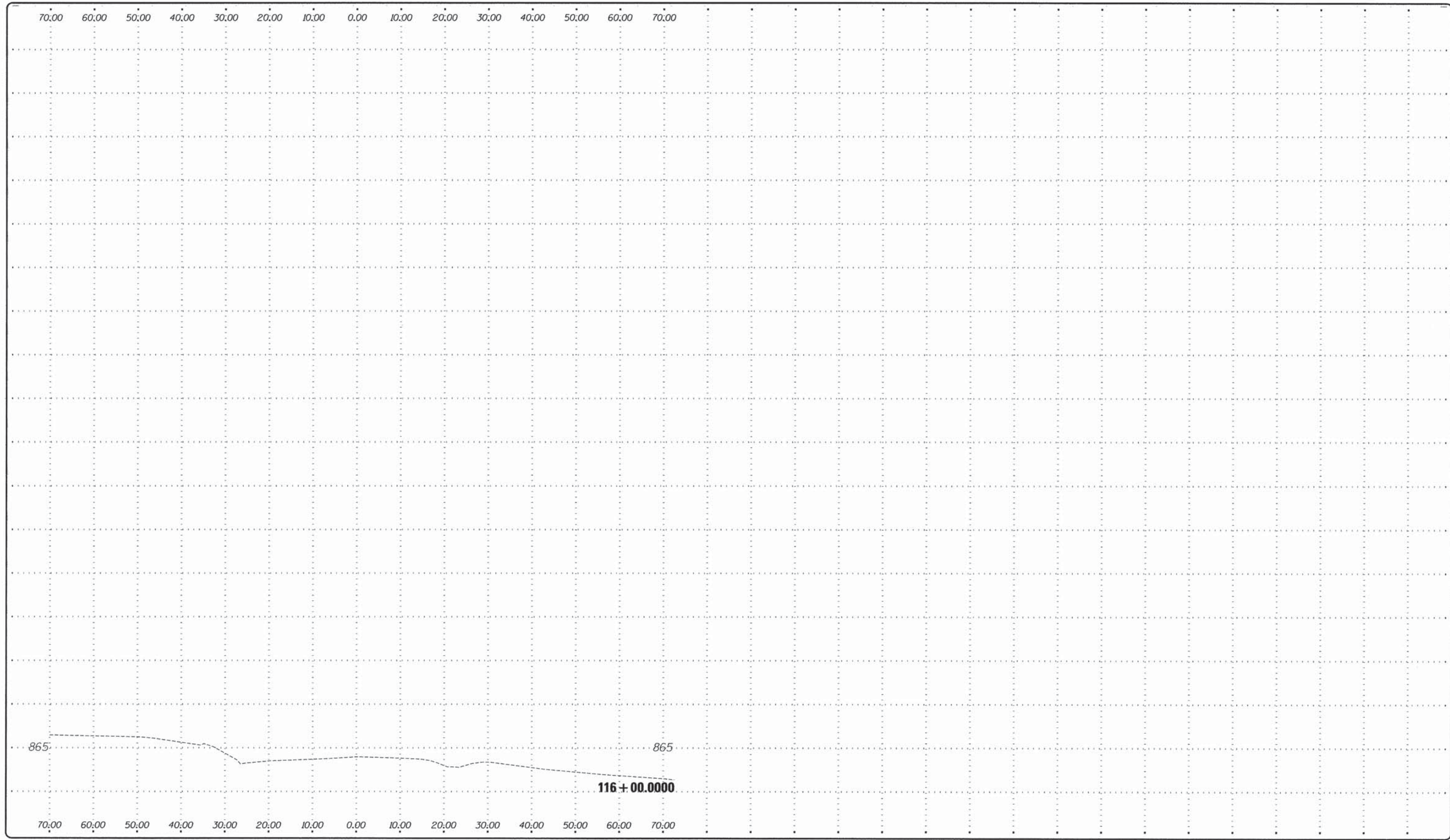
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-EB  
 G:\valcrastation\2012-12-47\plan set\12-47-27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 80 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

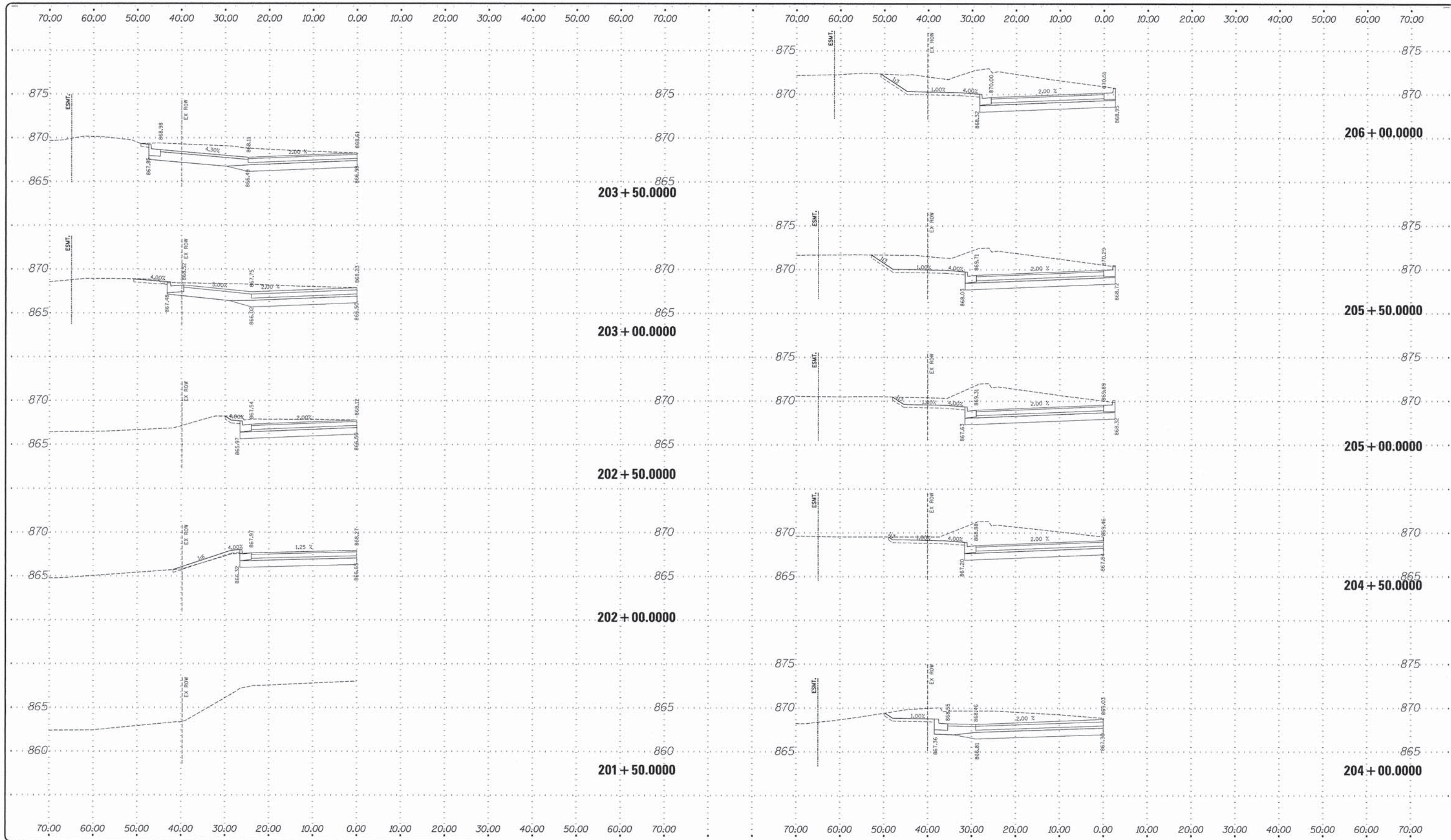
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-EB

JOB NUMBER:  
 12-471

SHEET NUMBER:  
 81 of 93

G:\valcrostation\2012\12-471\plan set\12-471 - 27 crosssections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

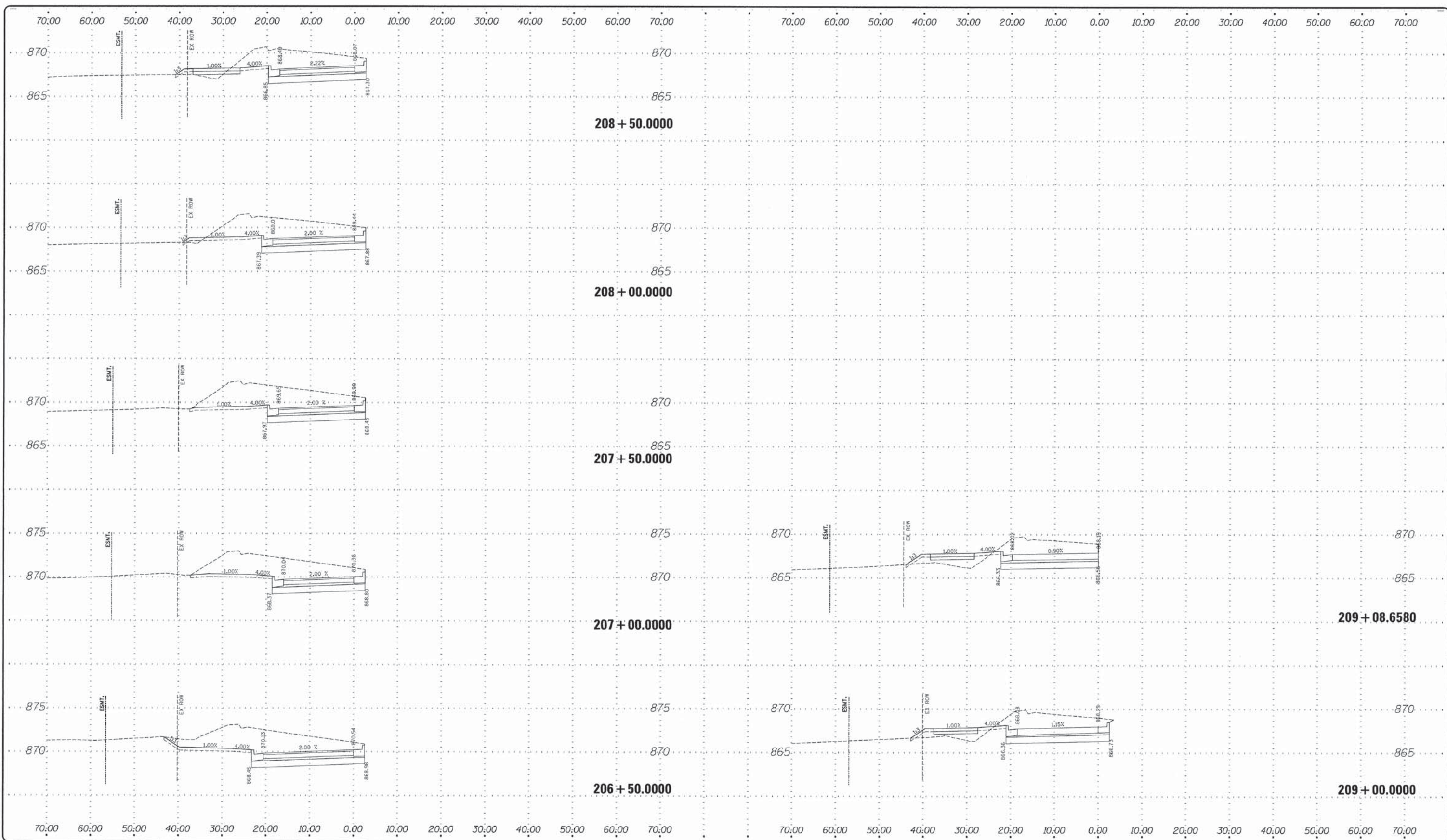
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-WB

JOB NUMBER:  
 12-471

SHEET NUMBER:  
 82 of 93

G:\mcr\station\2012\12-471\plan set\12-471-27 crosssections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

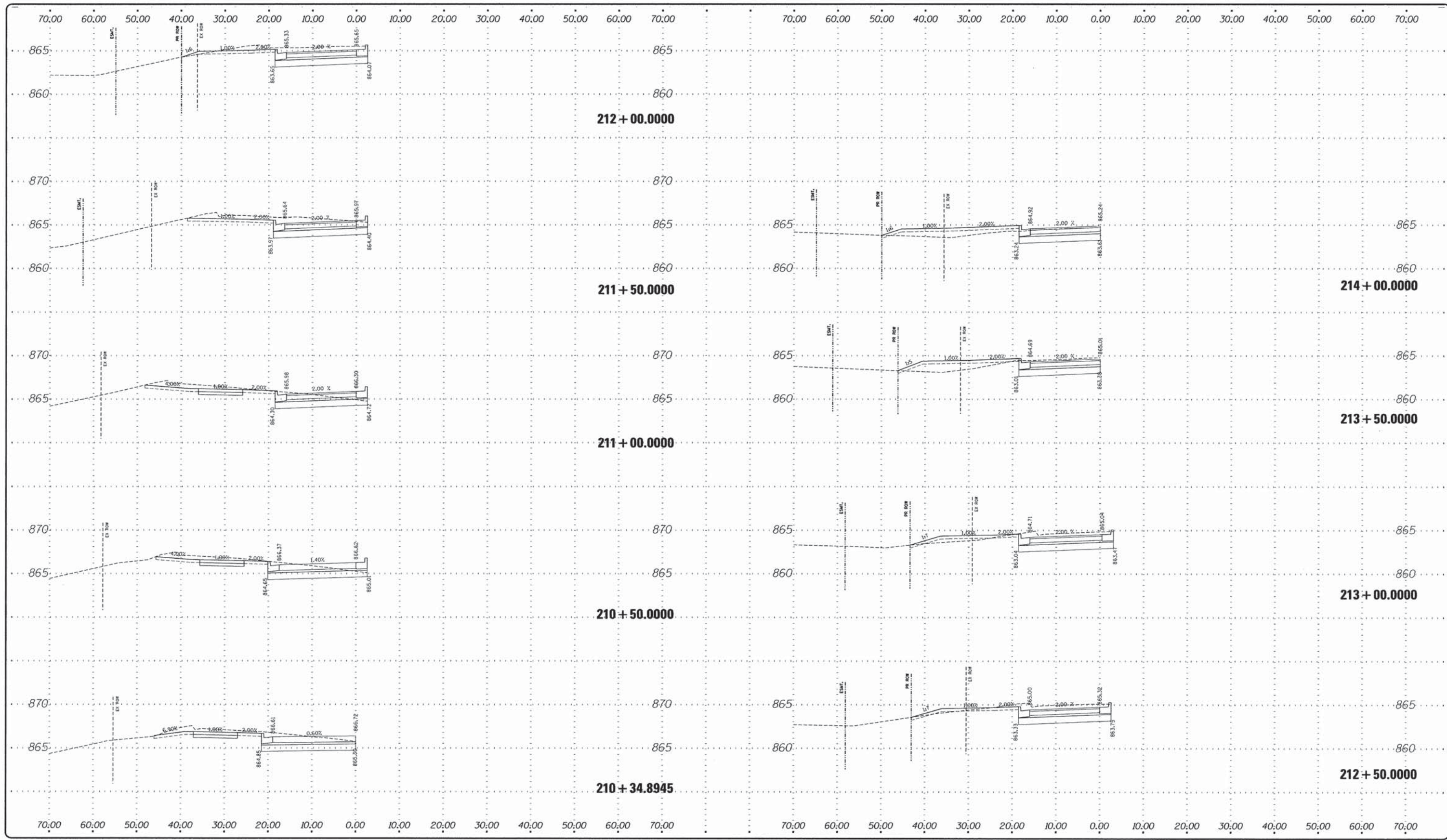
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-WB  
 G:\nforrestation\2012\12-471\plan set\12-471- 27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 83 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

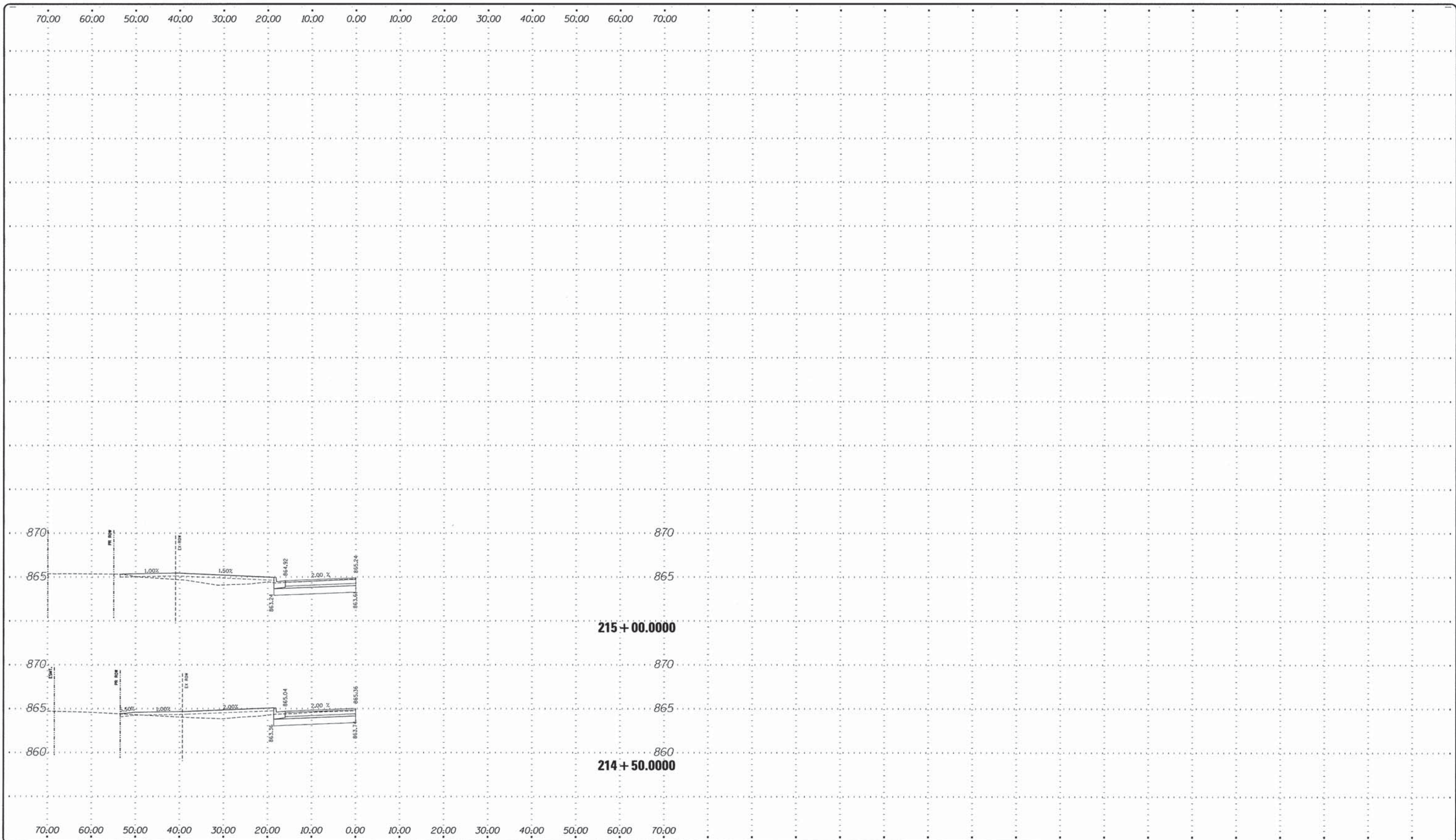
DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-WB

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 84 of 93

G:\mlcrst01\12-471\plan set\12-471-27 crosssections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

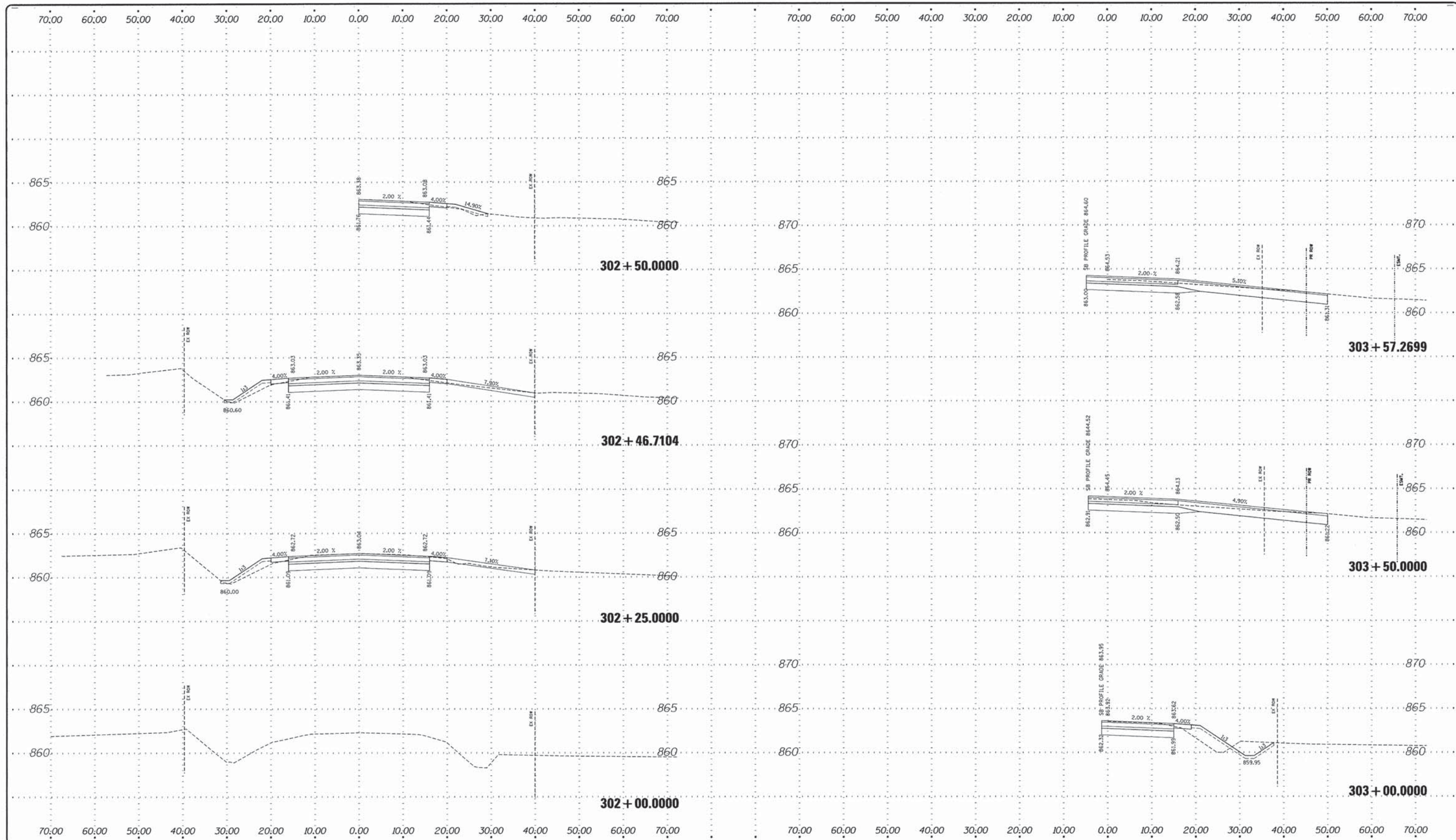
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 PEARL CITY ROAD-WB  
 G:\mlc\station\2012\12-471\plan\_set\12-471-27\_crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 85 of 93



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

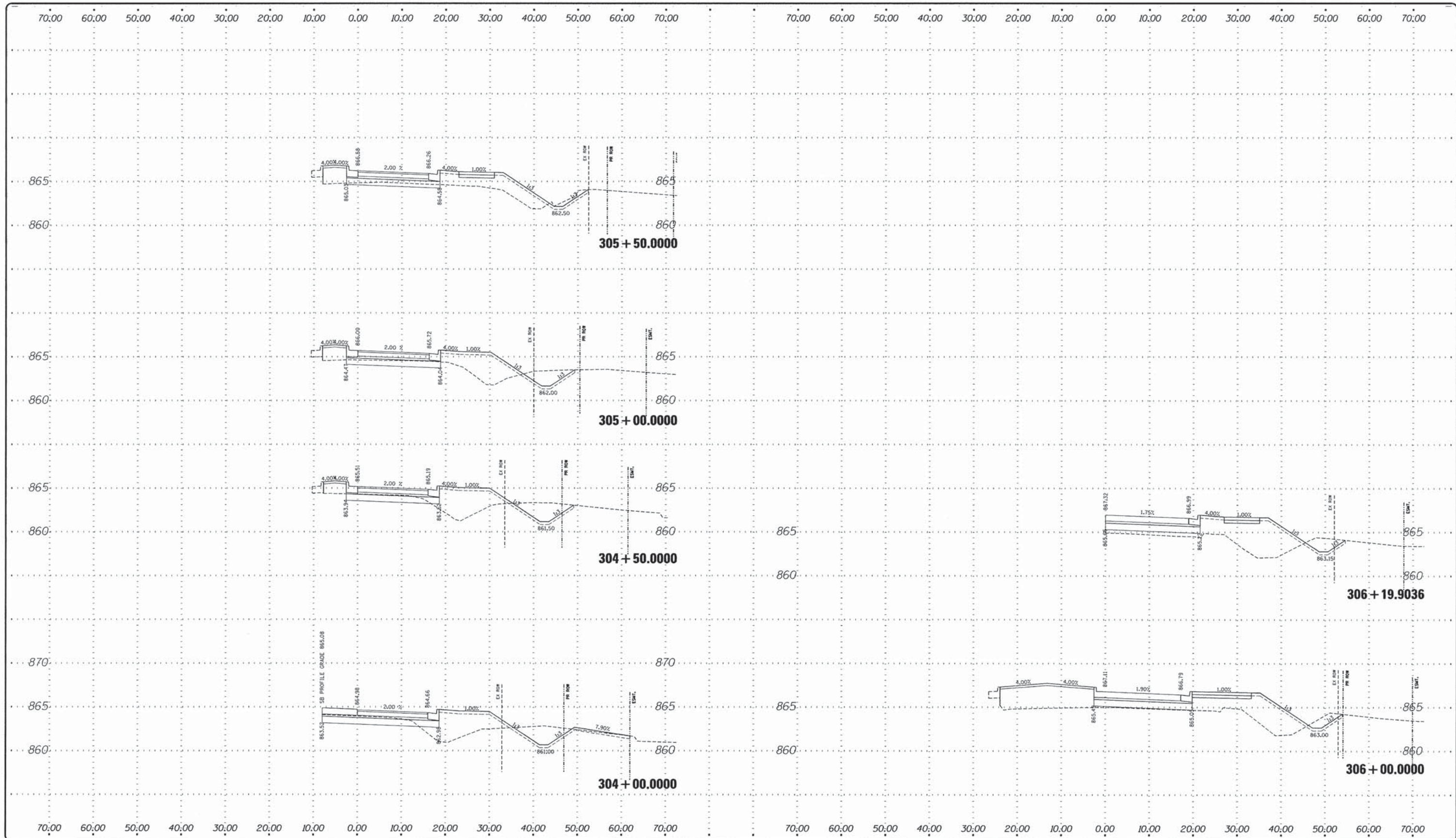
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 FOREST ROAD-NB  
 G:\crosssection\2012\12-471\plan set\12-471-27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 86 of 93



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 05/06/13  
SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

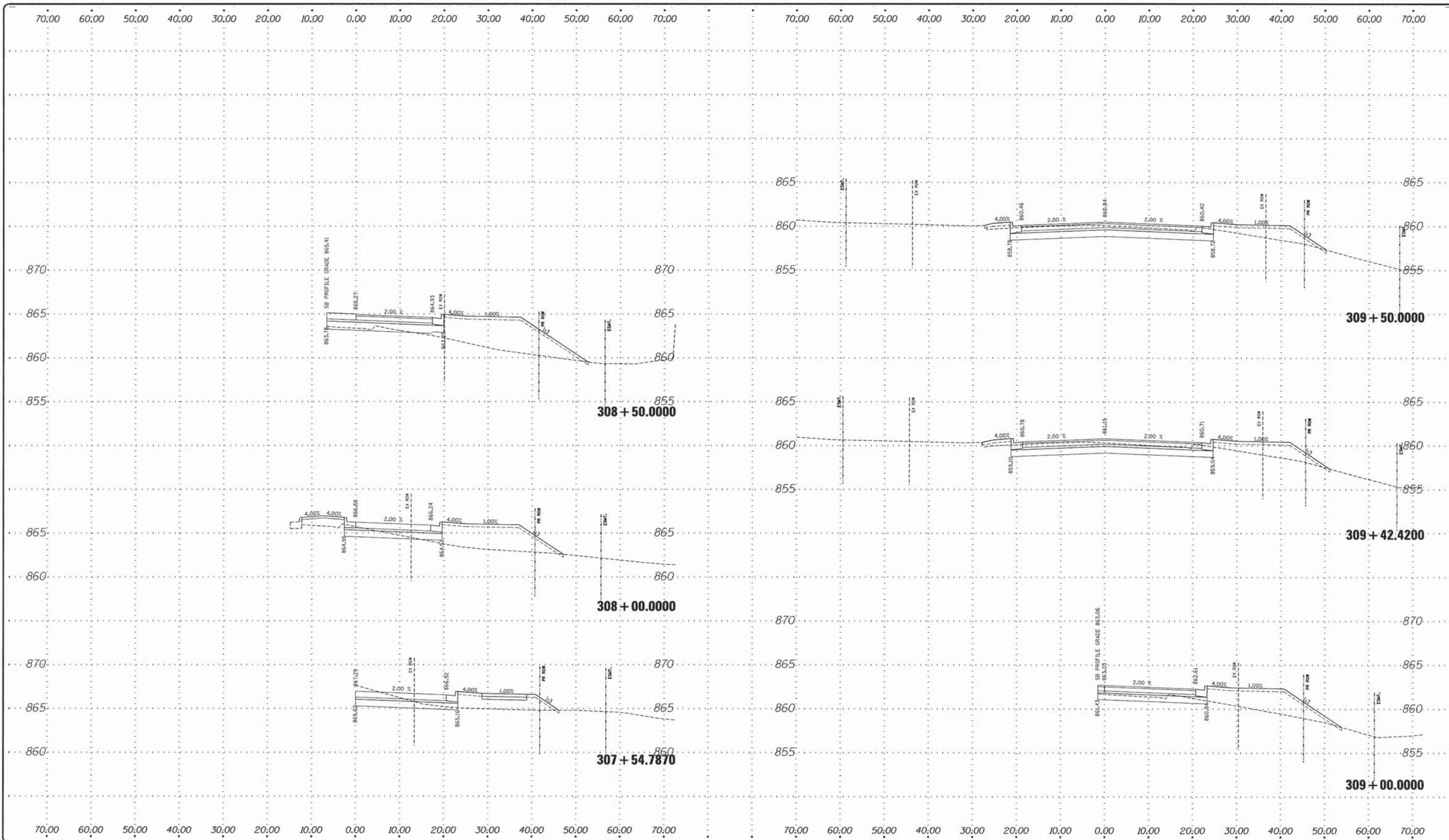
DRAWING:  
CROSS SECTIONS  
FOREST ROAD-NB

JOB NUMBER:  
12-471

SHEET NUMBER:  
87 of 93

G:\valcrs\station\2012\12-471\plan set\12-471-27 crosssections.dgn





**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

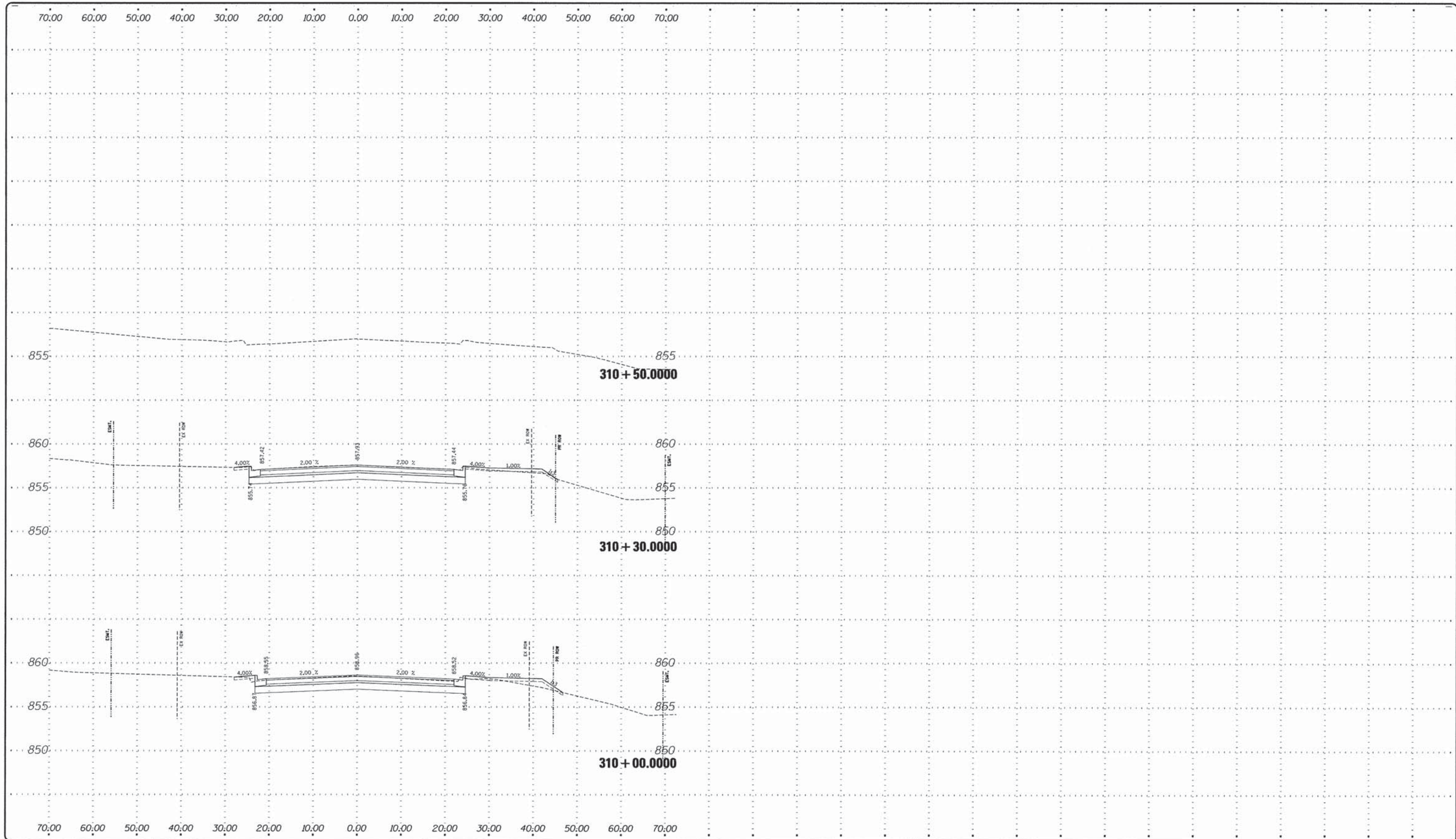
PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 KIWANIS DRIVE-NB  
G:\velcrostation\2012\12-471plan set\12-471 - 27 crosssections.dgn

JOB NUMBER:  
 12-471  
 SHEET NUMBER:  
 88 of 93



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 04-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 05/06/13  
SCALE: 10 SCALE

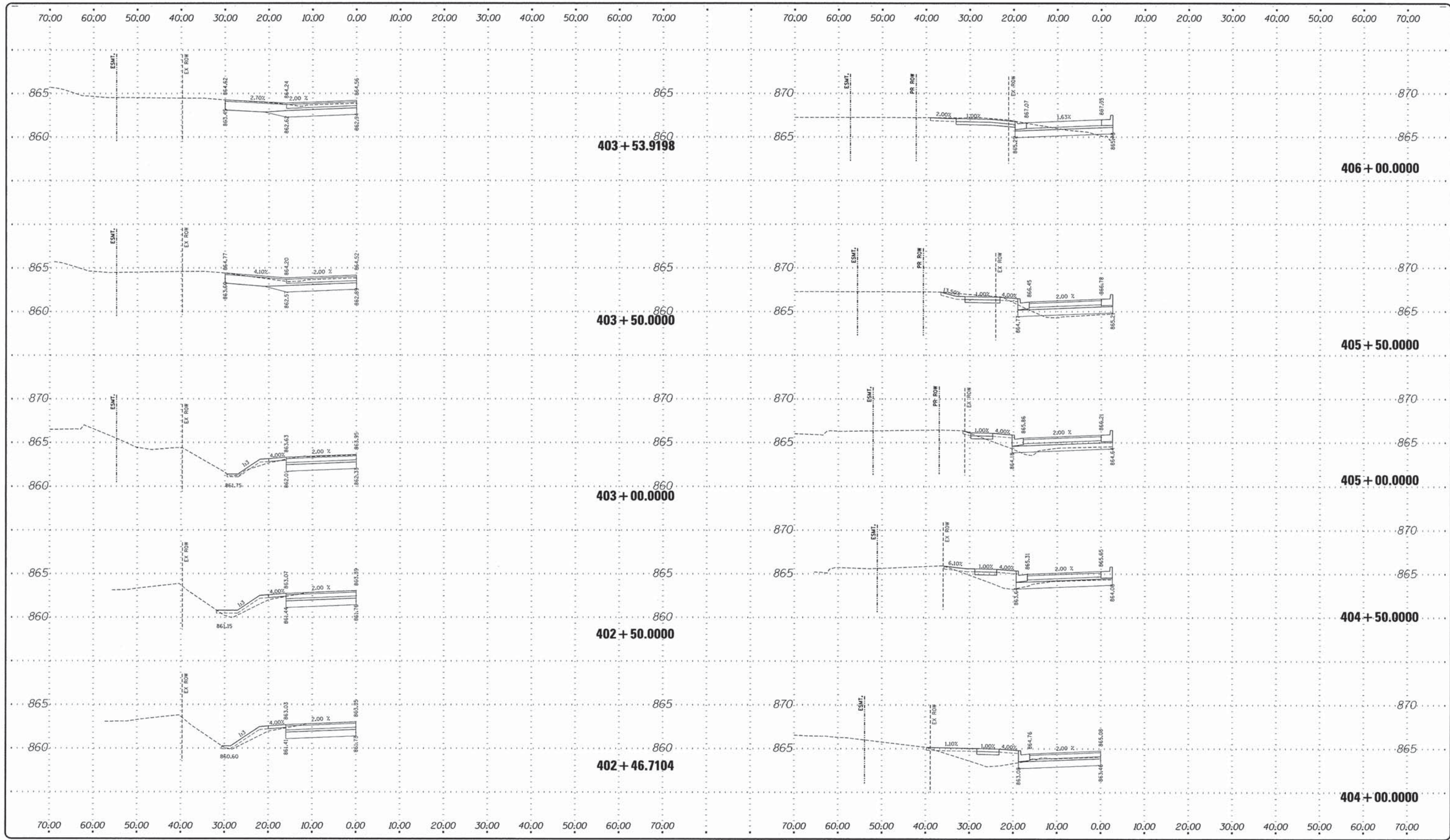
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
CROSS SECTIONS  
KIWANIS DRIVE-NB

JOB NUMBER:  
12-471

SHEET NUMBER:  
89 of 93

G:\m\crosstation\2012\12-471\plan set\12-471 - 27 crosssections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 04-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

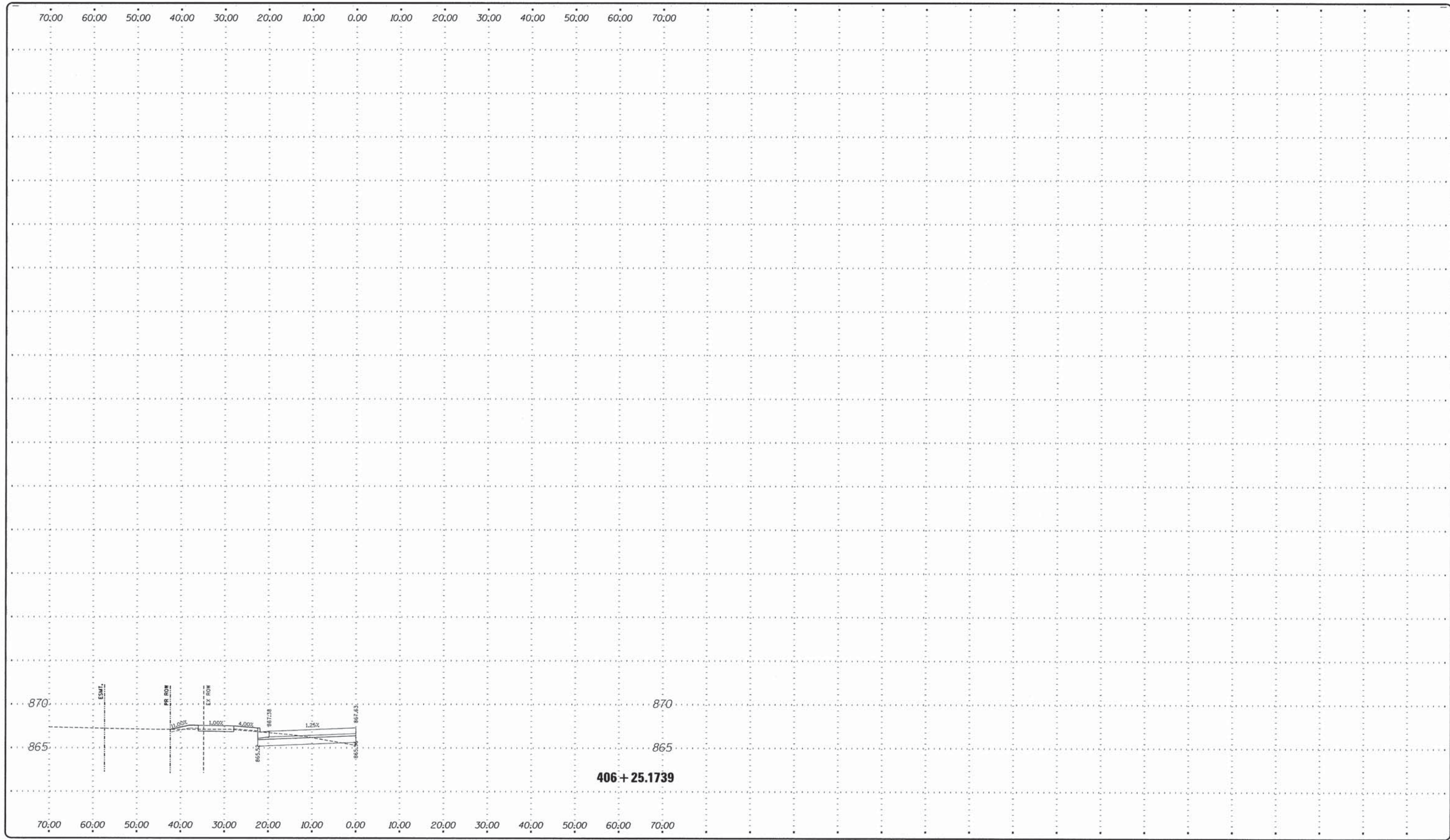
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 FOREST ROAD-SB

JOB NUMBER:  
 12-471

SHEET NUMBER:  
 90 of 93

G:\mlcrsstation\2012\12-471\plan set\12-471-27 crosssections.dgn



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDBOUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 05/06/13  
SCALE: 10 SCALE

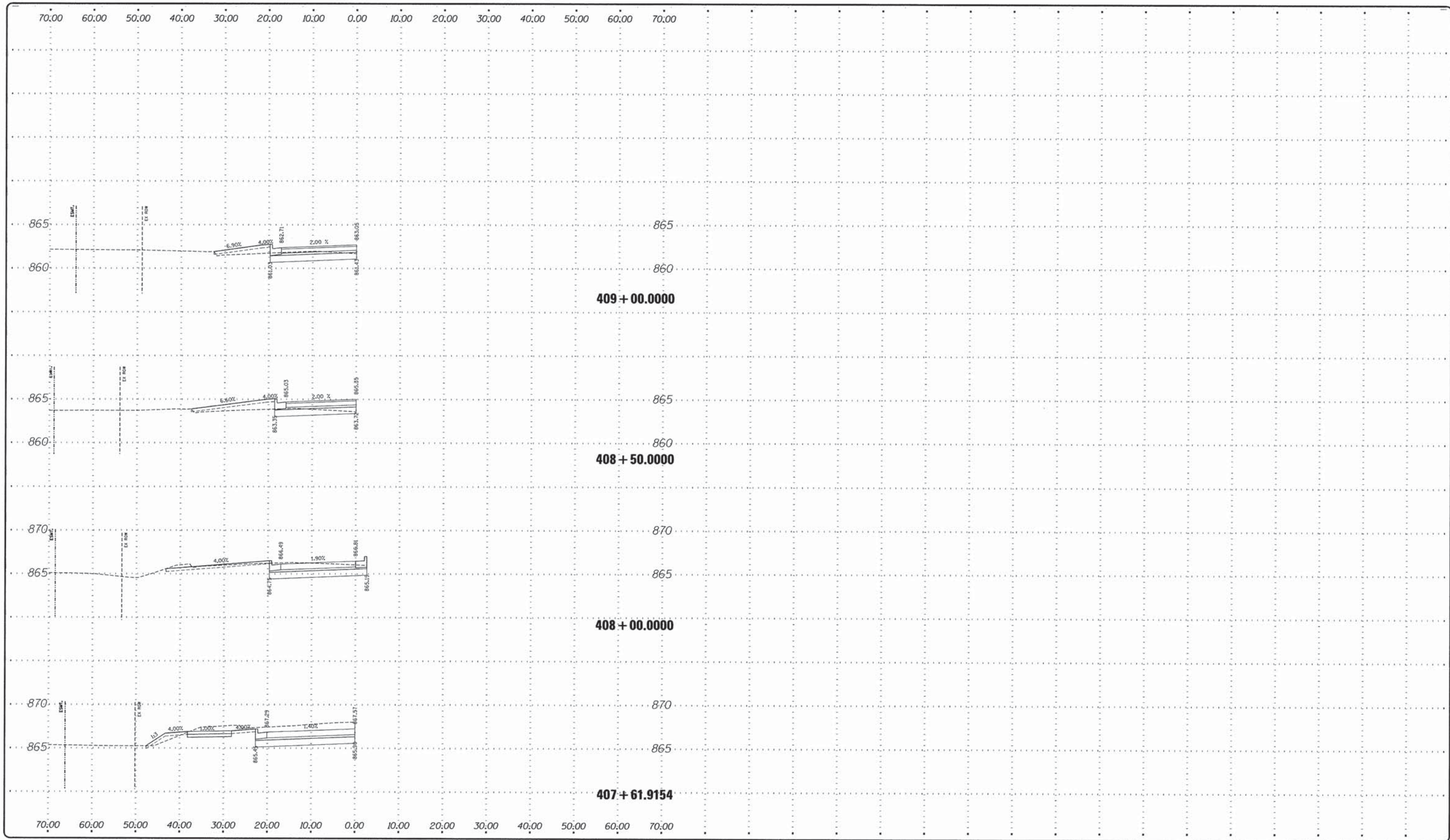
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
CROSS SECTIONS  
FOREST ROAD-SB

JOB NUMBER:  
12-471

SHEET NUMBER:  
91 of 93

G:\mcrastion\2012\12-471\plan set\12-471-27 crossections.dgn



**FEHR GRAHAM**  
 ENGINEERING & ENVIRONMENTAL  
 ILLINOIS DESIGN FIRM NO. 184-003525  
 © 2013 FEHR-GRAHAM

ILLINOIS  
 IOWA  
 WISCONSIN

OWNER/DEVELOPER:  
 STEPHENSON COUNTY  
 HIGHWAY DEPARTMENT  
 295 WEST LAMM ROAD  
 FREEPORT, IL 61032

PROJECT AND LOCATION:  
 ROUNDABOUT INTERSECTION AT  
 PEARL CITY ROAD, KIWANIS DRIVE  
 AND FOREST ROAD  
 FREEPORT, IL 61032

DRAWN BY: JCS  
 APPROVED BY: JD  
 DATE: 05/06/13  
 SCALE: 10 SCALE

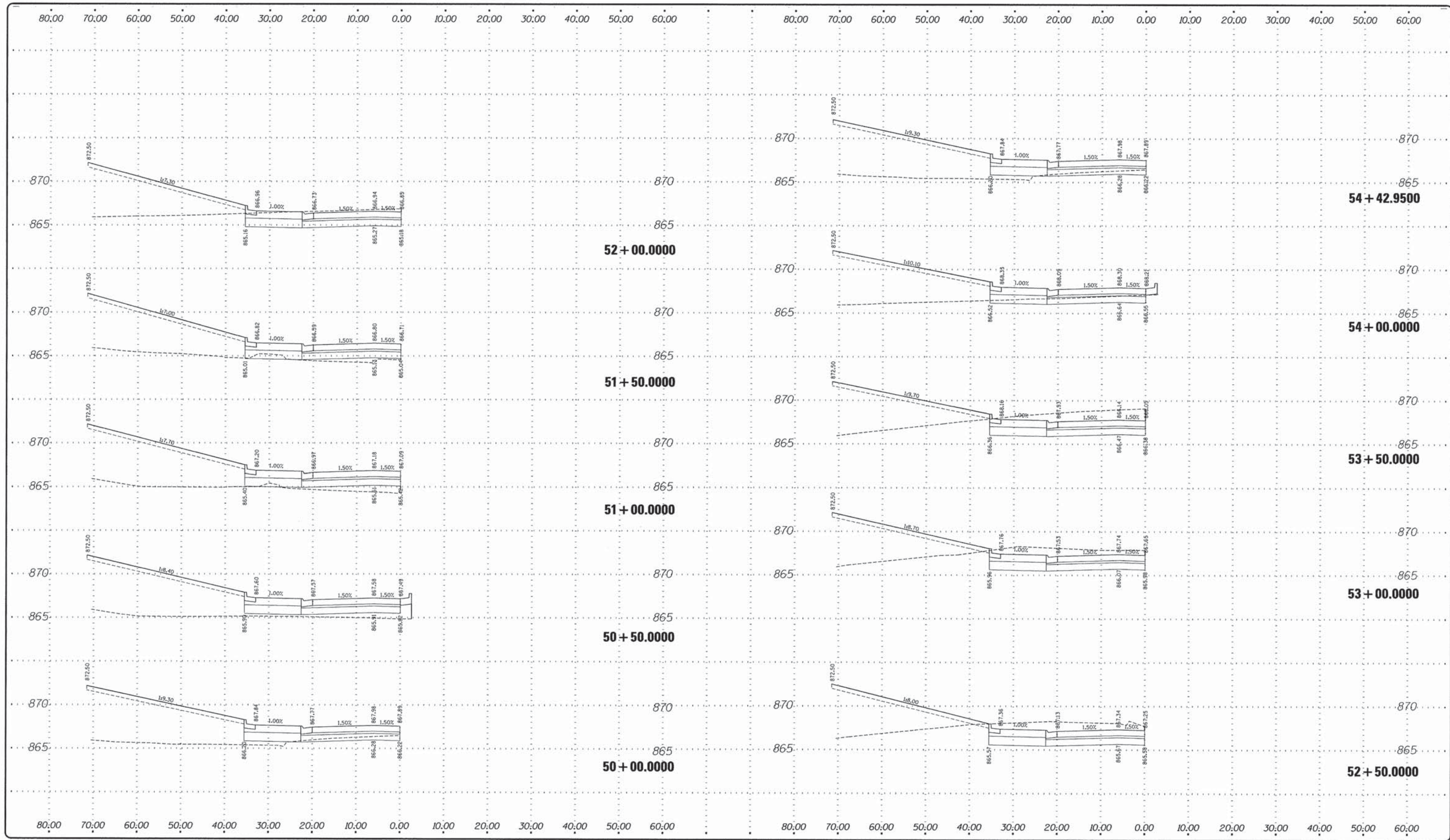
REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
 CROSS SECTIONS  
 KIWANIS DRIVE-SB

JOB NUMBER:  
 I2-471

SHEET NUMBER:  
 92 of 93

G:\valcrostation\2012\I2-471\plan set\I2-471- 27 crosssections.dgn



**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

© 2013 FEHR-GRAHAM

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
STEPHENSON COUNTY  
HIGHWAY DEPARTMENT  
295 WEST LAMM ROAD  
FREEPORT, IL 61032

PROJECT AND LOCATION:  
ROUNDAUT INTERSECTION AT  
PEARL CITY ROAD, KIWANIS DRIVE  
AND FOREST ROAD  
FREEPORT, IL 61032

DRAWN BY: JCS  
APPROVED BY: JD  
DATE: 05/06/13  
SCALE: 10 SCALE

REVISIONS		
REV. NO.	DESCRIPTION	DATE
*****	*****	*****
*****	*****	*****
*****	*****	*****
*****	*****	*****

DRAWING:  
CROSS SECTIONS  
ROUNDAUT-RND

JOB NUMBER:  
12-471

SHEET NUMBER:  
93 of 93

G:\valcrastation\2012\12-471\plan set\12-471-27 crosssections.dgn