F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63764		

08-02-13 LETTING ITEM 080

INDEX OF SHEETS

TRAFFIC DATA

	ADT (2030)	DESIGN SPEED	POSTED SPEED
GOLFVIEW AVENUE	8,000	35 MPH	30 MPH
31 ST STREET	13,000	40 MPH	35 MPH
1ST AVENUE (IL RTE 171)	28,000	35 MPH	35 MPH

DESIGN DESIGNATION

GOLFVIEW AVENUE (FAU 3784): MAJOR COLLECTOR
31 ST STREET (FAU 1467): MINOR ARTERIAL
1ST AVENUE (IL RTE 171) (FAP 0372): OTHER ARTERIAL

STATEMENT OF COMPLIANCE

I have prepared, or caused to be prepared under my direct supervision, the attached plans and specification and state that, to the best of my knowledge and belief and to the extent of my contractural obligation, they are in compliance with the Environmental Barriers Act [410 ILCS 25] and the Illinois Accessibility Code (71 IL. Adm. Code 400)

Signed:_____
ARCHITECT/ENGINEER

ILLINOIS REGISTRATION NO:_____

Date:_____

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 63764

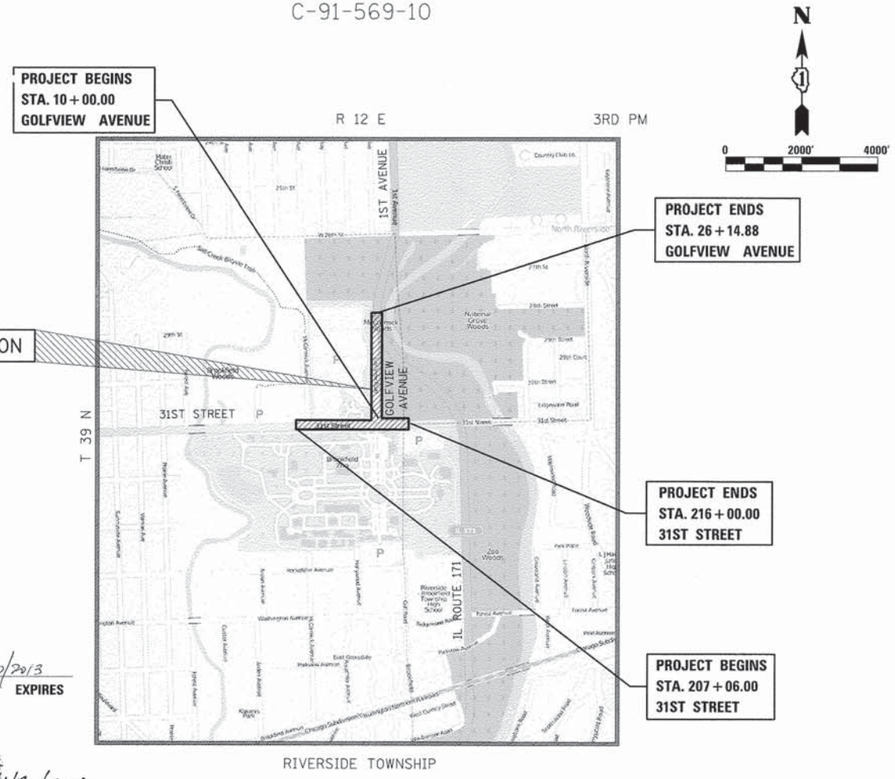
PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E., (847)-705-4406 SCHAUMBURG, IL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 3784 (GOLFVIEW AVENUE)
31ST STREET INTERSECTION TO 1ST AVENUE
SECTION: 12-F3000-23-PK
PROJECT NO.: HPP-3576(002)
FOREST PRESERVE DISTRICT OF COOK COUNTY
COOK COUNTY

C-91-569-10



LOCATION OF SECTION INDICATED THUS: –■–

GROSS AND NET LENGTH:
GOLFVIEW AVENUE – 1,614.88 FT. (0.306 MILE)
31ST STREET – 894.00 FT. (0.169 MILES)
TOTAL – 2508.88 FT. (0.475 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED Chris Slattery April 22 20 13
FOREST PRESERVE DISTRICT OF COOK COUNTY

PASSED MAY 30 20 13
C.J. HOLT
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW May 30 20 13
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

REGISTERED P.E., STATE OF ILLINOIS SHEETS 99-107 — EXPIRES 11/30/2013

REGISTERED ARCHITECT, STATE OF ILLINOIS SHEETS 108-109 — EXPIRES 11/30/2014

REGISTERED P.E., STATE OF ILLINOIS — EXPIRES 11/30/2013

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PLANS PREPARED BY:

CIVILTECH
450 E. Devon Ave, Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

1. ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISION", ADOPTED JANUARY 1, 2013.

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ("STANDARD SPECIFICATIONS"), ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2013; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 EDITION, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS.

3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811.

4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND GOVERNMENT AGENCIES.

5. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREA.

6. NO ADDITIONAL COMPENSATION WILL BE MADE FOR REMOVAL OF STUMPS OR TREE ROOTS THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.

7. ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

9. ALL TRAFFIC CONTROL, DETOUR, AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

PAVING, SHOULDERS AND CURB & GUTTER

1. THE CONTRACTOR SHALL SAW CUT PAVEMENT, CURB & GUTTER & SHOULDER AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

   THE CONTRACTOR SHALL BE REQUIRED TO SAW VERTICAL CUTS SO AS TO FORM CLEAN VERTICAL JOINTS. SHOULD THE CONTRACTOR DEFACE ANY EDGE, A NEW SAWED JOINT SHALL BE PROVIDED AND ANY ADDITONAL WORK, INCLUDING REMOVAL AND REPLACEMENT, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

   IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE THICKNESS OF THE EXISTING PAVEMENT AND WHETHER OR NOT IT CONTAINS REINFORCEMENT.

2. HOT-MIX ASPHALT BASE COURSE AND BINDER COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN PROPERLY BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

3. PRIOR TO PLACING HOT-MIX ASPHALT ADJACENT TO EXISTING PAVEMENT TO REMAIN, THE EXPOSED EDGE SHALL BE CLEANED OF LOOSE MATERIAL TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE HMA BEING PLACED.

4. THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.

5. REMOVAL OF EXISTING COMBINATION CURB AND GUTTER SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL" REGARDLESS OF THE CURB AND GUTTER TYPE.

6. PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH SECTION 420 OF THE STANDARD SPECIFICATIONS TO CONCRETE MEDIAN SURFACES, ALL EXPOSED SURFACES OF CURBS AND GUTTERS, PCC DRIVEWAYS, PCC PAVEMENT, AND PCC SIDEWALK. ANY PART OF THIS ITEM CAN BE DELETED OR ANOTHER ADDED AT THE DISCRETION OF THE ENGINEER.

7. HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

8. PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE INDICATED.

9. FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER, MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

MISCELLANEOUS

1. SITE OBJECTS: REMOVAL OF MISCELLANEOUS PARKWAY IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, BLOCK RETAINING WALL, CONCRETE FOOTINGS, LANDSCAPE TIMBERS, LANDSCAPE ROCKS, PLANTERS, VEGETATION, BRICK OR BRICK PAVER WALKWAYS WITHIN R.O.W. LIMITS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR "EARTH EXCAVATION" UNLESS QUANTIFIED SEPERATELY.

2. THE CONTRACTOR SHALL NOT CROSS COMPLETED BINDER COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT. ANY DAMAGED PAVEMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

3. ALL EXCESS MATERIAL (BROKEN CONCRETE, SEWER PIPE, WASTE ROADWAY EXCAVATION AND SURPLUS MATERIAL FROM SEWER TRENCHES) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN "EARTH EXCAVATION".

4. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND DEPOSITED AT LOCATIONS PROVIDED BY HIM, OR DISPOSED OF WITHIN THE RIGHT-OF-WAY IN A MANNER OTHER THAN BURNING, SUBJECT TO THE APPROVAL OF THE ENGINEER. NO EXTRA COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ANY EXPENSE INCURRED BY COMPLYING WITH THE REQUIREMENTS OF THIS NOTE.

5. ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO THE PLACEMENT OF GRANULAR SUB-BASE OR EMBANKMENT.

6. AGGREGATE SUBGRADE IMPROVEMENT AND FILTER FABRIC HAVE BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL".

7. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

8. THE GENERAL CONTRACTOR IS REQUIRED TO BE REGISTERED WITH COOK COUNTY BUILDING AND ZONING DEPARTMENT AND SHALL MEET ALL REQUIREMENTS SET FORTH BY THE DEPARTMENT.

9. THE GENERAL CONTRACTOR SHALL OBTAILL ALL NECESSARY PERMITS REQUIRED BY COOK COUNTY BUILDING AND ZONING DEPARTMENT.

10. THE SOILS REPORT AND GEOTECHNICAL ANALYSIS IS AVAILABLE FROM MIDLAND STANDARD ENGINEERING & TESTING, INC. (847) 844-1895

UTILITIES

1. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTON OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS OF HIS CONSTRUCTION SCHEDULE AND SHALL COORDINATE CONSTRUCTION OPERATIONS WITH THE UTILITY OWNERS SO THAT RELOCATION OF UTILITY LINES AND STRUCTURES MAY PROCEED IN AN ORDERLY MANNER. NOTIFICATION SHALL BE IN WRITING, WITH COPIES TRANSMITTED TO THE ENGINEER.

3. ANY EXISTING OR PROPOSED SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

4. WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE "STANDARD SPECIFICATIONS" USING METHOD ONE.

5. COORDINATION OF ANY UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

6. THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATON OR ADJUSTMENT.

DRAINAGE

1. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

2. THE COST OF MAKING SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.

3. UNLESS OTHERWISE NOTED ON THE PLANS, THE EXISTING DRAINAGE FACILITIES SHALL REMAIN IN USE DURING THE PERIOD OF CONSTRUCTION. LOCATIONS OF EXISTING DRAINAGE STRUCTURES AND SEWERS AS SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO COMMENCING WORK, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL DETERMINE THE EXACT LOCATIONS OF EXISTING STRUCTURES WHICH ARE WITHIN THE PROPOSED CONSTRUCTION LIMITS.

4. DURING CONSTRUCTION, IF THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWER, UNDERDRAINS OR FIELD DRAINS WITHIN THE RIGHT-OF-WAY OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL SO INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF THE NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE. SHOULD THE ENGINEER HAVE DIRECTED THE REPLACEMENT OF A FACILITY, THE NECESSARY WORK AND PAYMENT SHALL BE IN ACCORDANCE WITH SECTIONS 550 AND 601, AND ARTICLE 104.02 OF THE STANDARD SPECIFICATIONS.

5. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON MANHOLES OR CATCH BASINS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE USE OF FLAT SLAB TOPS.

6. TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS A PART OF THE STRUCTURE COST.

7. ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO SAID SERVICES NOT CONSIDERED TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

8. ANY TEMPORARY DAMMING OR PUMPING REQUIRED FOR THE EXCAVATIONS FOR THE STORM SEWER OR CULVERT CONNECTIONS SHALL BE INCLUDED IN THE COST OF THE STORM SEWER OR CULVERT BEING CONSTRUCTED.

9. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLAN, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWER ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.

10. DRAINAGE STRUCTURE FLAT-TOPS AND CONES SHALL BE TURNED SO THAT THE FRAMES ARE CLOSEST TO THE CENTERLINE OF THE ROAD. ALL FLAT-TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.

11. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE KEPT FREE OF ANY DEBRIS RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS. ALL WORK AND MATERIAL NECESSARY TO PREVENT ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES WILL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT. ANY DEBRIS IN THE DRAINAGE STRUCTURES RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

12. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS WHEN WORKING NEAR OR ABOVE EXISTING SEWERS IN ORDER TO PROTECT THESE PIPES DURING CONSTRUCTION FROM ANY DAMAGE RESULTING FROM HIS OPERATIONS. ALL WORK AND MATERIAL NECESSARY TO REPLACE EXISTING SEWERS DAMAGED BECAUSE OF NONCOMPLIANCE WITH THIS PROVISION SHALL BE AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTION 550 OF THE "STANDARD SPECIFICATIONS" AND AT THE CONTRACTOR'S OWN EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

13. THE COST OF REMOVING EXISTNG PAVEMENT TO INSTALL NEW STORM SEWER OR DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE SEWER OR STRUCTURE BEING CONSTRUCTED.

FILE NAME = ...\2563_GEN_NOTE_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 131	SHEET NO. 2
		DRAWN - DTE	REVISED -							
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63764		
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -		SCALE: NONE / SHEET NO. 1 OF 2 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGNING, STRIPING & LANDSCAPING

1. WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
3. ALL EXISTING TRAFFIC SIGNS WHICH INTERFERE WITH THE CONTRACTOR'S WORK SHALL BE REMOVED, A RECORD MADE OF THEIR CONDITION, AND SAFELY STORED AND SAFEGUARDED BY THE CONTRACTOR UNTIL THE ENGINEER DETERMINES THAT THEY BE REINSTALLED IN THE PERMANENT LOCATIONS.
4. IMMEDIATELY AFTER EACH SIGN IS REMOVED, A TEMPORARY SIGN OF THE SAME TYPE SHALL BE INSTALLED ON A SIGN SUPPORT APPROVED BY, AND AT A LOCATION DETERMINED BY, THE ENGINEER. THESE SIGNS SHALL BE MAINTAINED STRAIGHT AND CLEAN UNTIL THE PERMANENT SIGNS ARE REINSTALLED.
5. ANY SIGN WHICH IS DAMAGED DURING THE TIME IT IS STORED SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE PRIOR TO PERMANENT REINSTALLATION.
6. ALL UNUSED SIGNS AND POSTS SHALL BE RETURNED TO THE OWNER OF SIGN THAT WAS REMOVED.
7. THE COST OF STORING AND SAFEGUARDING THE PERMANENT SIGNS AND POSTS, AND REINSTALLING THE PERMANENT SIGNS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "RELOCATE SIGN PANEL ASSEMBLY" OF THE TYPE SPECIFIED. NEW SIGN SUPPORTS AND HARDWARE SHALL BE USED FOR REINSTALLED SIGNS UNLESS OTHERWISE NOTED. FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE TEMPORARY SIGNS SHALL BE INCLUDED IN THE COST OF THE VARIOUS TRAFFIC CONTROL AND PROTECTION ITEMS. THE NEW SUPPORTS SHALL BE PAID FOR AS "TELESCOPING STEEL SIGN SUPPORT".
8. PAVEMENT MARKINGS REMOVED OUTSIDE THE LIMITS OF THE IMPROVEMENT DUE TO TRAFFIC CONTROL AND SHIFTING TRAFFIC SHALL BE REPLACED AT THE END OF CONSTRUCTION. THIS WORK SHALL BE PAID FOR PER LINEAR FOOT OF THE LINE TYPE INSTALLED.
9. THE RESIDENT ENGINEER MUST CONTACT PATRICE HARRIS, IDOT DISTRICT ONE AREA TRAFFIC FIELD TECHNICIAN AT (708)-597-9800 TWO WEEKS PRIOR TO INSTALLING PERMANENT PAVEMENT MARKINGS.

EROSION CONTROL

1. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
2. THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.
3. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.
4. ALL DISTURBED AREAS SHALL BE SEEDED AS SHOWN ON THE LANDSCAPING PLANS AND/OR THE EROSION AND SEDIMENT CONTROL PLANS WITHIN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED.
5. ALL SLOPES 3:1 OR STEEPER SHALL BE SEEDED IMMEDIATELY AND COVERED WITH EROSION CONTROL BLANKET. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION AND WHERE NO FURTHER WORK IS TO OCCUR FOR ONE (1) WEEK OR MORE SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING AND COVERED WITH MULCH METHOD 2 WITHIN SEVEN (7) CALENDAR DAYS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES.
7. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
9. SEE STANDARD 280001-05 FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS AND REQUIREMENTS.
10. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
11. 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.

MAINTENANCE OF TRAFFIC

1. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE IDOT DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL, UNLESS HEREIN REVISED.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL CONSTRUCTION SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.
4. ALL SIGNS SHALL BE MOUNTED ON METAL POSTS, 7 FEET ABOVE THE EXISTING GROUND AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A J.U.L.I.E. LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS.
5. THE CONTRACTOR SHALL MAINTAIN 10-FOOT (MIN) DRIVING LANES ON ALL ROADS UNLESS DIRECTED BY THE ENGINEER OR OTHERWISE SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND SIDE ROADS DURING CONSTRUCTION OPERATIONS. A QUANTITY OF "AGGREGATE FOR TEMPORARY ACCESS" HAS BEEN INCLUDED IN THE CONTRACT FOR THIS PURPOSE.
7. BARRICADES WILL BE REQUIRED ADJACENT TO PAVEMENT EDGES WHERE WIDENING, CURB AND GUTTER OR OVERLAYING WORK IS BEING DONE, AS SPECIFIED IN SECTION 701 OF THE STANDARD SPECIFICATIONS. SPACING SHALL BE AS SHOWN ON THE STANDARDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOPS OF THE BARRICADES ARE IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901-02.
8. ALL BARRICADES AT LANE DIVERSIONS WITHIN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
9. DRUMS SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.
10. DRUMS AND BARRICADES SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES".
11. TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
12. THE CONTRACTOR SHALL NOTIFY EMERGENCY SERVICES AT (708) 485-8131, SCHOOL DISTRICT 208 AT (708) 442-7500 AND SCHOOL DISTRICT 96 AT (708) 447-5007 REGARDING ANY ROAD CLOSURES OR DETOURS 72 HOURS PRIOR TO IMPLEMENTATION.
13. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL" PER SQUARE FOOT.
14. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE MESSAGES SHOWN SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN" PER CALENDAR MONTH.
15. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST TWO WEEKS IN ADVANCE OF THE CHANGE.
16. EXISTING TRAFFIC CONTROL DEVICES ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE CAUSED BY HIS WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
17. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
18. TEMPORARY LANE CLOSURES WILL BE ALLOWED ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CLOSING ANY LANES. ALL CLOSURES SHALL BE COORDINATED CLOSELY WITH THE CHICAGO ZOOLOGICAL SOCIETY AND MAY NEED TO BE ADJUSTED THROUGHOUT THE PROJECT DURATION.
19. "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGN MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.
20. "FRESH OIL" SIGNS (W21-2-4848) WITH DATE. SIGNS SHALL BE ERECTED 48 HOURS PRIOR TO PRIMING. THE COST OF THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
21. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
22. EXISTING KIOSKS SHALL REMAIN IN USE WITH POWER AND DATA UNTIL NEW KIOSKS ARE IN PLACE AND SUPPLIED WITH POWER AND DATA AT WHICH TIME THE EXISTING KIOSKS SHALL BE DEMOLISHED.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAMES AND LIDS TYPE 1
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE, TYPE 24
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-03	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701427-01	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-08	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY & POLE
878001-09	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS & FLASH BEACON INSTALL
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS WITH POST & BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS

MWRD GENERAL NOTES

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
2. ELEVATION DATUM IS USGS.
3. THERE ARE NO FLOOR DRAINS IN THESE PLANS.
4. THERE ARE NO FOOTING DRAINS AND DOWNSPOUTS IN THESE PLANS.
5. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONENCTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
6. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
   A. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
   B. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
   C. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

FILE NAME = ...\2563_GEN_NOTE_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
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	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	3
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
										31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	300			300					
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	102			102					
	20101700	SUPPLEMENTAL WATERING	UNIT	5			5					
	20200100	EARTH EXCAVATION	CU YD	8268	8268							
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	55	55							
	20400800	FURNISHED EXCAVATION	CU YD	100	100							
	20800150	TRENCH BACKFILL	CU YD	824	824							
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	922	922							
△	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	50	50							
△	21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	180			180					
△	25000210	SEEDING, CLASS 2A	ACRE	1.5			1.5					
△	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	88			88					
△	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	88			88					
	25100630	EROSION CONTROL BLANKET	SQ YD	6599	6599							
△	25200110	SODDING, SALT TOLERANT	SQ YD	506			506					
△	25200200	SUPPLEMENTAL WATERING	UNIT	10	10							
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	136	136							
	28000400	PERIMETER EROSION BARRIER	FOOT	2583	2583							
	28000510	INLET FILTERS	EACH	53	53							
	28100107	STONE RIPRAP CLASS A4	SQ YD	4	4							
•	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	55	55							
•	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4864	4864							
	31101800	SUBBASE GRANULAR MATERIAL, TYPE B 10"	SQ YD	8173	8173							
	35501287	HOT-MIX ASPHALT BASE COURSE, 2 1/4"	SQ YD	14726	14726							
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	91	91							
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7059	7059							

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

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	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	4
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
				ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
									31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	55	55							
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	117	117							
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	108	108							
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1796	1796							
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	312	312							
40701816	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6 3/4"	SQ YD	1174	1174							
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	2488	2488							
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	208	208							
42001300	PROTECTIVE COAT	SQ YD	2334	2334							
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4511		4511						
44000100	PAVEMENT REMOVAL	SQ YD	8634	8634							
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	4105	4105							
44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	7674	7674							
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	733	733							
44000300	CURB REMOVAL	FOOT	2070	2070							
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3775	3775							
44001980	CONCRETE BARRIER REMOVAL	FOOT	329	329							
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	201	201							
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1							
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	462	462							
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	214	214							
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	270	270							
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	88	88							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	38	38							
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	28	28							
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	17	17							

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	5
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
				ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
									31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	280	280							
550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	16	16							
55100300	STORM SEWER REMOVAL 8"	FOOT	195	195							
55100500	STORM SEWER REMOVAL 12"	FOOT	233	233							
55100700	STORM SEWER REMOVAL 15"	FOOT	136	136							
55101200	STORM SEWER REMOVAL 24"	FOOT	12	12							
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1							
60201205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE	EACH	9	9							
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1							
60204505	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1							
60208105	CATCH BASIN, TYPE C, TYPE 12 FRAME AND GRATE	EACH	14	14							
60208240	CATCH BASIN, TYPE C, TYPE 24 FRAME AND GRATE	EACH	1	1							
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	11							
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2							
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1							
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1							
60251200	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 8 GRATE	EACH	1	1							
60255410	CATCH BASINS TO BE CLEANED	EACH	4	4							
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3							
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1							
60500040	REMOVING MANHOLES	EACH	4	4							
60500050	REMOVING CATCH BASINS	EACH	11	11							
60600605	CONCRETE CURB, TYPE B	FOOT	46	46							
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	4706	4706							
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	872	872							
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	406	406							

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	6
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
										31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	2373	2373							
	64300750	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 2	EACH	4		4						
	66400105	CHAIN LINK FENCE, 4'	FOOT	141	141							
	66400505	CHAIN LINK FENCE, 8'	FOOT	43	43							
	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	750	750							
	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1							
	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2							
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9							
	67100100	MOBILIZATION	L SUM	1	1							
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16							
	70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	36.4		36.4						
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	19922		19922						
	70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	52		52						
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	78		78						
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	900		900						
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450		450						
	72000100	SIGN PANEL - TYPE 1	SQ FT	119		79				23	17	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1						
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2		2						
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	4		4						
	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	16		16						
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	283		283						
△	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	400		400						
△	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7925		7925						
△	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1799		1799						
△	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	265		265						

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_04.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 4 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	7
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
										TRAFFIC SIGNALS		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	153		153						
△	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146		146						
△	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6804		6804						
△	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	2621		2621						
△	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	1005		1005						
△	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	24		24						
△	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	242		242						
△	78300100	PAVEMENT MARKING REMOVAL	SQ FT	2443		2443						
△	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1						
△ *	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1						1		
△	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2						1	1	
△	81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL 1" DIA.	FOOT	2200		2200						
△	81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL 1 1/4" DIA.	FOOT	2000		2000						
△	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	2931						770	1856	305
△	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL 2 1/2" DIA.	FOOT	302						77	225	
△	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1087		950				116	21	
△	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	607						289	318	
△	81028260	UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA.	FOOT	150		150						
△	81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	300		300						
△	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	30		30						
△	81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1511		1400	111					
△	81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	600		600						
△	81300100	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 4" X 4" X 3"	EACH	17		17						
△	81300420	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 6"	EACH	1		1						
△	81302000	JUNCTION BOX, CAST IRON, ATTACHED TO STRUCTURE, 4" X 4" X 3"	EACH	22		22						
△	81400100	HANDHOLE	EACH	15						4	11	

* REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_05.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 5 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	8
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
										TRAFFIC SIGNALS		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△	81400200	HEAVY-DUTY HANDHOLE	EACH	2						2		
△	81400300	DOUBLE HANDHOLE	EACH	3						2	1	
△	81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1800		1800						
△	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2100		2100						
△	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	8150		8150						
△	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	15550		15550						
△	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	3600		3600						
△	81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	1000		1000						
△	81702230	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500MCM	FOOT	3000		3000						
△	81702441	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-12/C, 1-12/C GROUND	FOOT	600		600						
	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	4		4						
	84200804	REMOVAL OF POLE FOUNDATION	EACH	4		4						
△	84400105	RELOCATE EXISITNG LIGHTING UNIT	EACH	2	2							
△ *	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2								2
△	85700200	FULL-ACTUATED CONTROLLLER AND TYPE IV CABINET	EACH	1						1		
△	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1							1	
△	87100140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	1200		1200						
△	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3529								3529
△	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	394						394		
△	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1207						840	367	
△	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3673						1424	2249	
△	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	682						682		
△	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2830						1062	1768	
△	87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	1411							1411	
△	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	154						154		
△	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2812						730	2082	

* REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_06.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	
		DRAWN - DTE	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 6 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	9
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
										31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△	87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3							3	
△	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2						2		
△	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2							2	
△	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1							1	
△	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1						1		
△	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1						1		
△	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1							1	
△	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1						1		
△	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32						12	20	
△	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8						4	4	
△	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	44						24	20	
△	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13						13		
△	87900200	DRILL EXISTING HANDHOLE	EACH	2								2
△	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8						5	3	
△	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3						1	2	
△	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1						1		
△	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2						2		
△	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2						1	1	
△	88030240	SIGNAL HEAD, LED, 2-FACE. 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1						1		
△	88055150	OPTICALLY PROGRAMMED SIGNAL HEAD,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2							2	
△	88055160	OPTICALLY PROGRAMMED SIGNAL HEAD,LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2							2	
△	88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1							1	
△	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2						2		
△	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12						7	5	
△	88500100	INDUCTIVE LOOP DETECTOR	EACH	11						5	6	
△	88600100	DETECTOR LOOP, TYPE I	FOOT	955						577	378	

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_07.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - DTE	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 7 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	10
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
										31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△	88700200	LIGHT DETECTOR	EACH	6						2	4	
△	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2						1	1	
△	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2						2		
△	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2						1	1	
△	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4479		2000						2479
△	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	250		250						
△	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2						1	1	
	89502380	REMOVE EXISTING HANDHOLE	EACH	17						5	12	
	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2						1	1	
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	12						6	6	
△	B2000566	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5			5					
△	B2001166	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	1			1					
△	C2C05818	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 18" WIDTH, CONTAINER	EACH	26			26					
△	C2011024	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC), 2' HEIGHT, BALLED AND BURLAPPED	EACH	19			19					
△	C2011600	SHRUB, VIBURNUM DENTATUM BLUE MUFFIN (BLUE MUFFIN ARROWHEAD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	10			10					
△	D2C01018	EVERGREEN, JUNIPERUS HORIZONTALIS WILTONII (BLUE RUG JUNIPER), 18" WIDTH, CONTAINER	EACH	43			43					
△	D2C03524	EVERGREEN, TAXUS X MEDIA DENSIFORMIS (DENSE ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER	EACH	14			14					
△	D2C03624	EVERGREEN, TAXUS X MEDIA HICKSII (HICKS ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER	EACH	10			10					
△	D2001572	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 6' HEIGHT, BALLED AND BURLAPPED	EACH	14			14					
△	D2002172	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	3			3					
△	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	1.56			1.56					
△	K0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	0.59			0.59					
△ •	K1003679	MULCH	CU YD	59			59					
•	Z0004002	BOLLARDS	EACH	7	7							
•	Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	269	269							
△ •	Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1							

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_08.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
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	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 8 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	11
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

		CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
											TRAFFIC SIGNALS		
						ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△	•	Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1							
△	•	Z0007603	BUILDING REMOVAL NO. 3	L SUM	1	1							
△	•	Z0007604	BUILDING REMOVAL NO. 4	L SUM	1	1							
△	•	Z0007605	BUILDING REMOVAL NO. 5	L SUM	1	1							
△	•	Z0007606	BUILDING REMOVAL NO. 6	L SUM	1	1							
	•	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1							
	•	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2							
	•	Z0019600	DUST CONTROL WATERING	UNIT	432	432							
△	•	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	155		155						
△	•	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1								1
△	•	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2						1	1	
	•	Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT	7	7							
	•	Z0076600	TRAINEES	HOUR	500				500				
	•	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500				
	•	LR420010	PORTLAND CEMENT CONCRETE PAVEMENT (SPECIAL)	SQ YD	90	90							
	•	X0301797	GATE REMOVAL	EACH	2	2							
△	•	X0322708	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	5	5							
△	•	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1134						432	702	
△	•	X0326696	SIGN AND POST	EACH	20		20						
	•	X0327070	REMOVE EXISTING FLAGPOLE	EACH	6	6							
	•	X0327412	RAILROAD TIES TO BE REMOVED	FOOT	703	703							
△	•	X0327502	ACCESS GATE, DOUBLE, 40 FOOT	EACH	2	2							
△	•	X0327503	ACCESS GATE, DOUBLE, 50 FOOT	EACH	1	1							
	•	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100							
	•	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1610	1610							
	•	X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	181	181							
	•	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	236	236							

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_09.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	
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	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 9 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	12
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

		CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 SAFETY	0031 LANDSCAPING	0042 TRAINEES	0044 OTHER	0021 TRAFFIC SIGNALS 31ST STREET AT GOLFVIEW ROAD	0021 TRAFFIC SIGNALS IL ROUTE 171 AT GOLFVIEW ROAD	0021 TRAFFIC SIGNALS INTERCONNECT
	•	X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	114	114							
	•	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1							
	•	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	133	133							
	•	X6640310	CHAIN LINK GATES REMOVAL	EACH	3	3							
	•	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1							
△	•	X8211285	LUMINAIRE LED, HORIZONTAL MOUNT 285 WATT	EACH	34		34						
△	•	X8300001	LIGHT POLE, SPECIAL	EACH	19		19						
△	•	X8570015	CONTROLLER (SPECIAL)	EACH	1		1						
△	•	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1							1	
△	•	X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	2						1	1	
△	•	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3575								3575
△	•	X8780107	CONCRETE FOUNDATION (SPECIAL)	FOOT	180		180						
△	•	XX004913	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2502								2502
	•	XX006457	WHEEL STOP REMOVAL AND REPLACEMENT	EACH	45	45							
	•	XX007461	OUTCROPPING	FOOT	206			206					
△	•	XX008608	CABLE, SPECIAL	FOOT	1400		1400						
	•	XX008743	STORM SEWERS, CLASS B, TYPE 1 8"	FOOT	90	90							
△	•	XX008774	FABRICATED CONTROL BOOTH, TYPE 1	EACH	4					4			
△	•	XX008775	FABRICATED CONTROL BOOTH, TYPE 2	EACH	2					2			
△	•	XX008778	LUMINAIRE, LED VERTICAL FLOOD LIGHT 30 WATT	EACH	10		10						
△	•	XX008779	LUMINAIRE, LED BOLLARD 30 WATT	EACH	22		22						
△	•	XX008780	GFCI RECEPTACLES, 20AMP 125VOLT	EACH	14		14						
△	•	XX008781	RECEPTACLE IN USE COVERS	EACH	14		14						
△	•	XX008782	DATA SURGE PROTECTORS 1GB	EACH	6		6						
△	•	XX008784	FIBERGLASS 4X ENCLOSURE 24 X 24 X 12 DEEP	EACH	1		1						
△	•	XX008785	CLOSED CIRCUIT TV CAMERAS PAN ZOOM TILT	EACH	13		13						

• REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

FILE NAME = ...\02-Sum quant\2563_S00_10.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 10 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	13
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021		
					ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS		
										31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT
△ *	XX008786	CLOSED CIRCUIT TV WEATHERPROOF, HEATED, FOG PROOF HOUSING	EACH	7		7						
△ *	XX008787	CLOSED CIRCUIT TV INDOOR DOME HOUSING SMOKE LENS	EACH	6		6						
△ *	XX008788	WIRELESS ACCESS POINT	EACH	10		10						

* REQUIRES SPECIAL PROVISION
△ INDICATES SPECIALTY ITEM

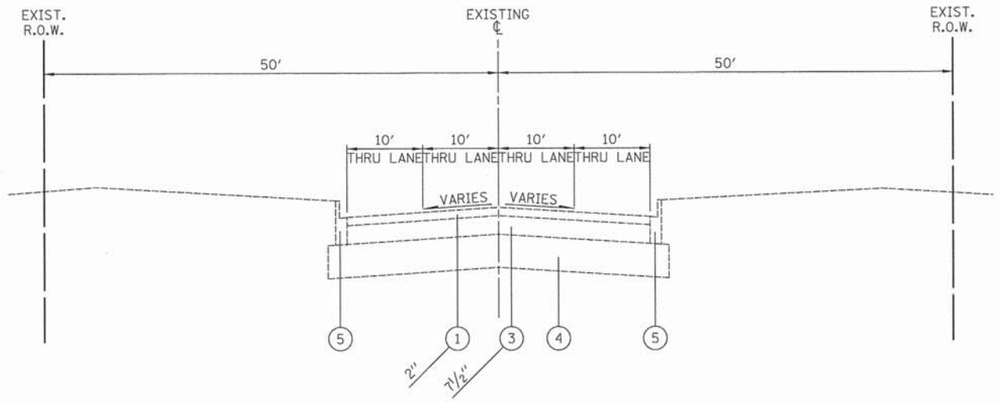
FILE NAME = ...\02-Sum quant\2563_S00_11.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

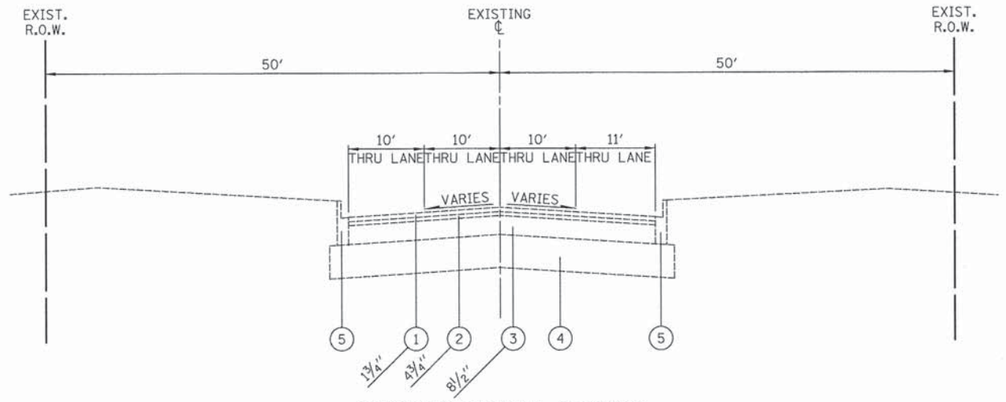
SCALE: NONE | SHEET NO. 11 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	14
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



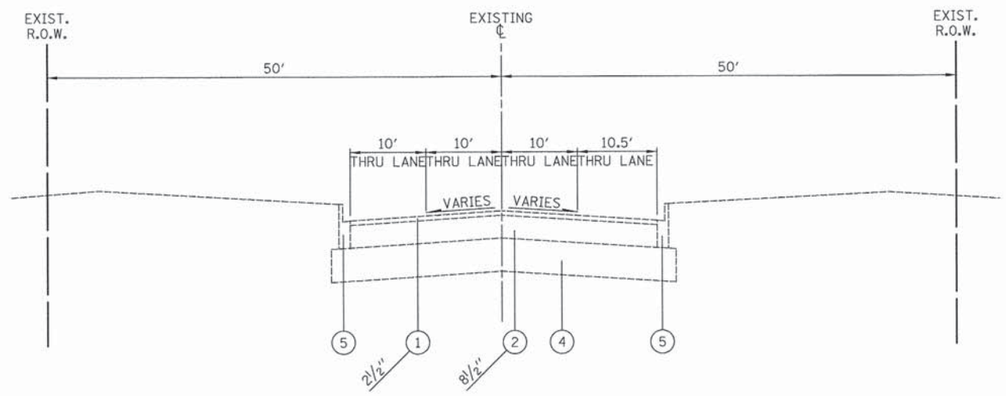
EXISTING TYPICAL SECTION

STA. 207+06.00 TO STA. 212+12.84, 31ST STREET



EXISTING TYPICAL SECTION

STA. 212+12.84 TO STA. 216+00.00, 31ST STREET

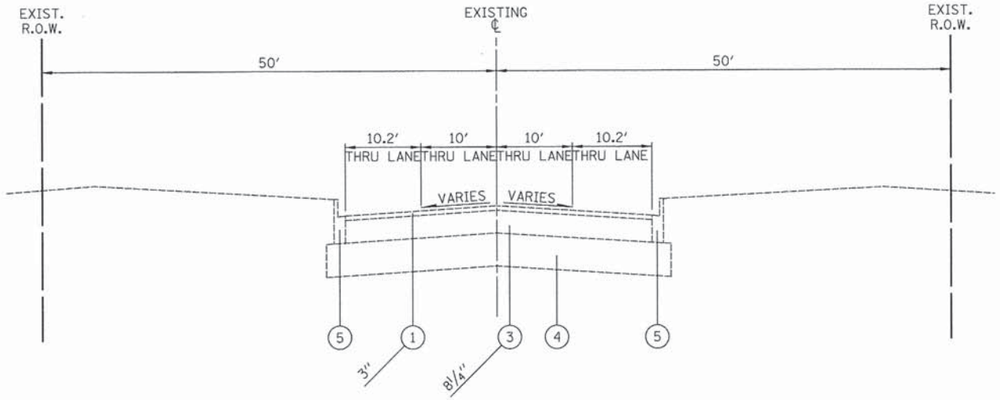


EXISTING TYPICAL SECTION

STA. 10+00.00 TO STA. 14+31.00, GOLFVIEW AVENUE

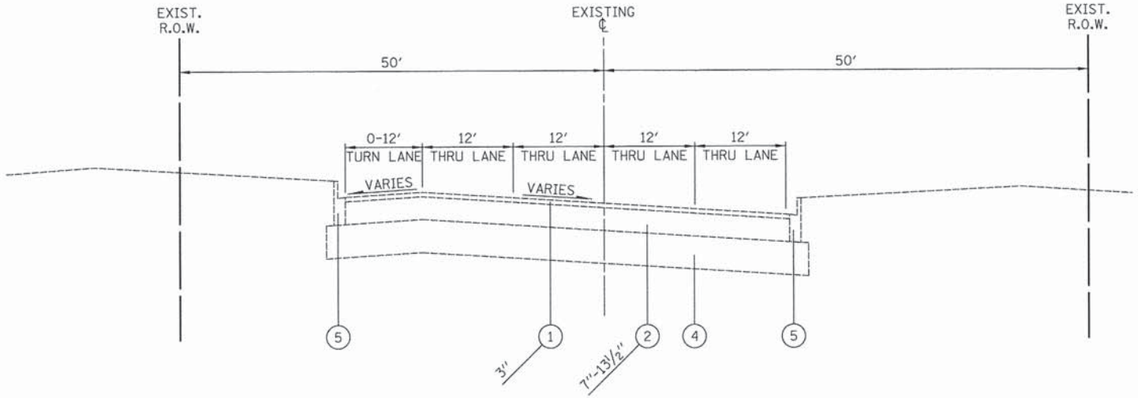
LEGEND

1. EXISTING BITUMINOUS CONCRETE SURFACE COURSE
2. EXISTING BITUMINOUS CONCRETE BINDER COURSE
3. EXISTING PCC PAVEMENT STRUCTURE
4. EXISTING SUB-BASE GRANULAR MATERIAL
5. EXISTING CONCRETE CURB & GUTTER
6. EXISTING GRANULAR BASE



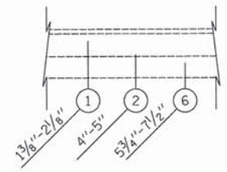
EXISTING TYPICAL SECTION

STA. 14+31.00 TO IL RTE 171, GOLFVIEW AVENUE



EXISTING TYPICAL SECTION

STA. 520+00.00 TO STA. 526+00.00, IL ROUTE 171



EXISTING TYPICAL SECTION

STA. 100+10.00 TO STA. 110+00.00, BROOKFIELD ZOO NORTH PARKING LOT

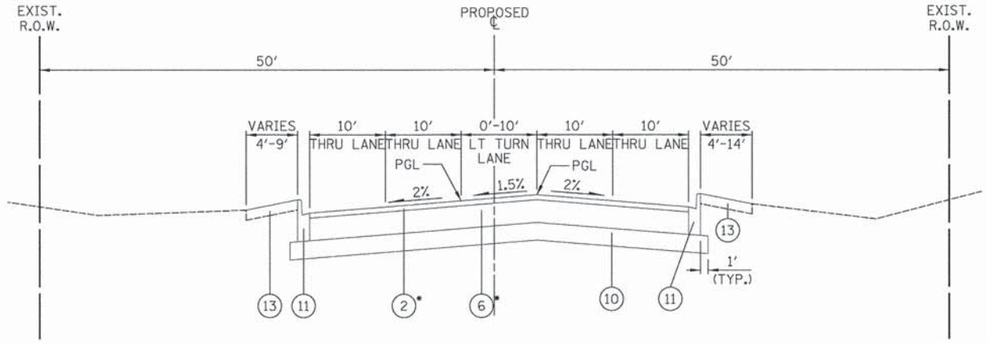
FILE NAME = ...\03-Typicals\2563_TYP_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS

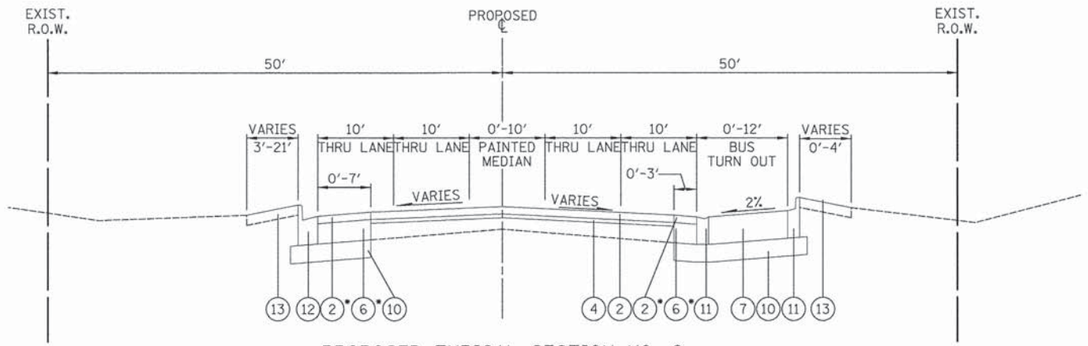
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	15
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



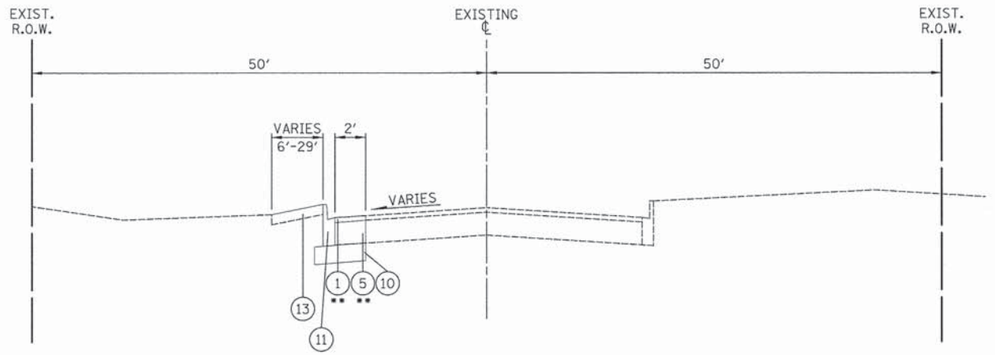
PROPOSED TYPICAL SECTION NO. 1

STA. 207+06.00 TO STA. 211+00.00, 31ST STREET



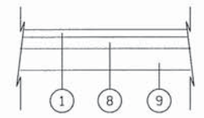
PROPOSED TYPICAL SECTION NO. 2

STA. 211+00.00 TO STA. 216+00.00, 31ST STREET

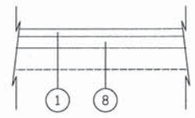


PROPOSED TYPICAL SECTION NO. 3

STA. 11+20.00 TO STA. 13+62.18, GOLFVIEW AVENUE



BROOKFIELD ZOO
NORTH PARKING LOT
NEW PAVEMENT



BROOKFIELD ZOO
NORTH PARKING LOT
RESURFACING

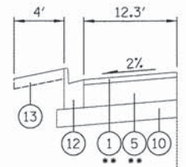
LEGEND

1. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
2. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
3. LEVELING BINDER (MACHINE METHOD), N50, 3/4"
4. LEVELING BINDER (MACHINE METHOD), N70, 3/4"
5. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4 3/4"
6. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 7"
7. PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED)
8. HOT-MIX ASPHALT BASE COURSE, 2 1/4"
9. SUB-BASE GRANULAR MATERIAL, TYPE B 10"
10. AGGREGATE SUBGRADE IMPROVEMENT, 12"
11. COMBINATION CONCRETE CURB AND GUTTER, B-6.12
12. COMBINATION CONCRETE CURB AND GUTTER, B-6.24
13. TOPSOIL FURNISH AND PLACE, 4" SEEDING, FERTILIZER, AND EROSION MAT

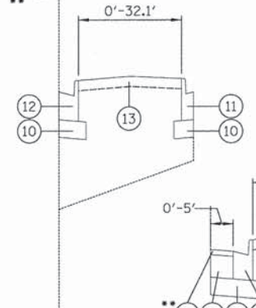
• COST INCLUDED IN HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"

•• COST INCLUDED IN HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6 3/4"

STA. 25+62.85 TO STA. 26+14.88

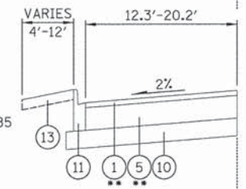


STA. 22+38.48 TO STA. 24+52.05

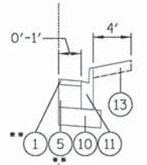


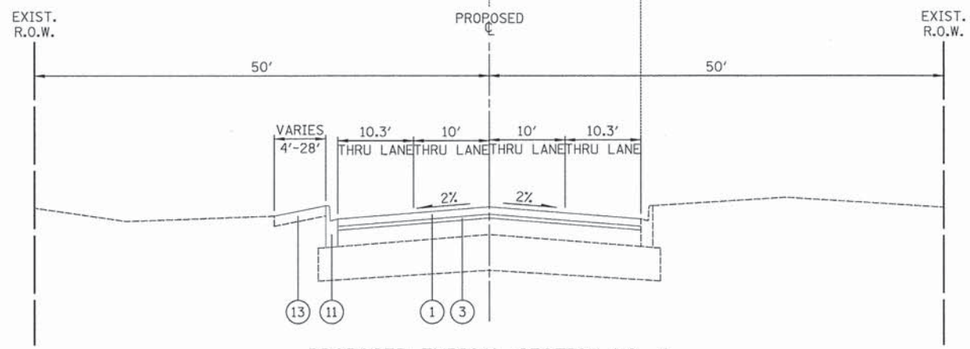
STA. 21+86.94 TO STA. 22+99.36

STA. 20+50.00 TO STA. 25+62.85



STA. 20+50.00 TO STA. 21+86.94





PROPOSED TYPICAL SECTION NO. 4

STA. 19+10.00 TO STA. 26+14.88, GOLFVIEW AVENUE

FILE NAME = ...\03-Typicals\2563_TYP_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	16
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MIXTURE REQUIREMENT

PAY ITEM	AIR VOIDS @ Ndes
HOT-MIX ASPHALT PAVEMENT RESURFACING - 31ST STREET	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 70 GYR.
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm) (0.75")	4% @ 70 GYR.
HOT-MIX ASPHALT PAVEMENT RESURFACING - GOLFVIEW AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50 (IL-9.5 mm) (0.75")	4% @ 50 GYR.
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6 3/4" - GOLFVIEW AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (4.75") (2 LIFTS MIN)	4% @ 50 GYR.
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9" - 31ST STREET	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm) (2")	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (7") (2 LIFTS MIN)	4% @ 70 GYR.
HOT-MIX ASPHALT PAVEMENT - BROOKFIELD ZOO NORTH PARKING LOT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm) (2")	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50 (2.25")	4% @ 50 GYR.
HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm) (2")	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50 (4") (2 LIFTS MIN)	4% @ 50 GYR.
CLASS D PATCHES, TYPE II, III, AND IV, 10"	
CLASS D PATCH (HMA BINDER IL-19mm) (10") (3 LIFTS MIN)	4% @ 70 GYR.

NOTES:

1. THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LB/SY-IN.
2. FOR PERCENT OF RAP, SEE DISTRICT ONE SPECIAL PROVISIONS.
3. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR 31ST STREET

STRUCTURAL TRAFFIC: YEAR 2030

PV = 12740 SU = 130 MU = 130

ROAD/STREET CLASSIFICATION: CLASS II

P = 98% S = 1% M = 1%

TRAFFIC FACTOR: 0.71 ACTUAL TF = 0.91

MINIMUM TF = 0.50

AC GRADE: BINDER = PG 58-22 SURFACE = PG 64-28

SUBGRADE SUPPORT RATING:

SSR = POOR

STRUCTURAL PAVEMENT DESIGN INFORMATION BLOCK FOR GOLFVIEW AVENUE

STRUCTURAL TRAFFIC: YEAR 2030

PV = 7648 SU = 176 MU = 176

ROAD/STREET CLASSIFICATION: CLASS II

P = 95.6% S = 2.2% M = 2.2%

TRAFFIC FACTOR: 0.45 ACTUAL TF = 0.57

MINIMUM TF = 0.50

AC GRADE: BINDER = PG 58-22 SURFACE = PG 64-28

SUBGRADE SUPPORT RATING:

SSR = POOR

REMEDIAL TREATMENT AREAS

ALIGNMENT	STATION	DEPTH	WIDTH	DESCRIPTION
GOLFVIEW AVE.	12+10 TO 15+70	12"	WIDENING	NOTE 2
31ST STREET	213+50 TO 216+00	12"	WIDENING	NOTE 2

NOTES:

1. DEPTH REFERS TO THE DEPTH BELOW DESIGN SUBGRADE ELEVATION
2. UNDERCUT AND REPLACE WITH AGGREGATE SUBGRADE, UNDERDRAIN.

FILE NAME = ...\03-Typicals\2563_TYP_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	17
		CONTRACT NO. 63764		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

STATION		HOT-MIX ASPHALT BASE COURSE, 2 1/4"	BITUMINOUS MATERIALS (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N50	LEVELING BINDER (MACHINE METHOD), N70	HOT-MIX ASPHALT SURFACE CSE, MIX "D", N50	HOT-MIX ASPHALT SURFACE CSE, MIX "D", N70	HOT-MIX ASPHALT PAVEMENT, (FULL-DEPTH), 6 3/4"	HOT-MIX ASPHALT PAVEMENT, (FULL-DEPTH), 9"	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUB-BASE GRANULAR MATERIAL TYPE B 10 INCH	AGGREGATE SUBGRADE IMPROVEMENT
		35501287	40600100	40600625	40600635	40603335	40603340	40701816	40701861	42000401	30300112	31101800	30300001
		(SQ YD)	(GALLON)	(TON)	(TON)	(TON)	(TON)	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(SQYD)	(CUYD)
31ST STREET	207+06 TO 211+00	0	0	0	0	0	0	0	2041	0	2267	0	0
	211+00 TO 216+00	0	1046	0	117	0	312	0	448	208	1063	0	55
GOLFVIEW ROAD	11+25 TO 16+00	19	7	0	0	2	0	54	0	0	121	42	0
	16+00 TO 21+50	0	319	36	0	95	0	219	0	0	248	0	0
	21+50 TO 26+14.88	0	172	19	0	52	0	901	0	0	1165	0	0
ZOO NORTH LOT	100+70 TO 105+00	1554	582	0	0	174	0	0	0	0	0	595	0
	105+00 TO 110+50	8774	3290	0	0	983	0	0	0	0	0	3695	0
	110+50 TO 113+70.87	4379	1643	0	0	490	0	0	0	0	0	3841	0
	TOTALS	14726	7059	55	117	1796	312	1174	2489	208	4864	8173	55

STATION		CONCRETE CURB, TYPE B	COMB. CONC. C&G,TYPE B-6.12	COMB. CONC. C&G,TYPE B-6.24	CONC. MEDIAN TYPE SB-6.06	CONC. MEDIAN TYPE SB-6.12	PCC SIDEWALK, 5 INCH	HMA DRIVEWAY PAVEMENT 6 INCH
		60600605	60603800	60605000	60619200	60619600	42400200	Z0004522
		(FOOT)	(FOOT)	(FOOT)	(SQFT)	(SQFT)	(SQFT)	(SQYD)
31ST STREET	207+06 TO 211+00	0	930	0	0	0	64	210
	211+00 TO 216+00	32	926	428	0	0	4447	59
GOLFVIEW ROAD	11+25 TO 16+00	0	237	0	0	212	0	0
	16+00 TO 21+50	0	340	0	0	0	0	0
	21+50 TO 26+14.88	0	519	444	0	0	0	0
ZOO NORTH LOT	100+70 TO 105+00	14	339	0	0	937	0	0
	105+00 TO 110+50	0	1017	0	0	1224	0	0
	110+50 TO 113+70.87	0	398	0	406	0	0	0
	TOTALS	46	4706	872	406	2373	4511	269

STATION		THERMOPLASTIC PAVT. MARKING- LETTERS & SYMBOLS	THERMOPLASTIC PAVT. MARKING- LINE 4"	THERMOPLASTIC PAVT. MARKING- LINE 6"	THERMOPLASTIC PAVT. MARKING- LINE 12"	THERMOPLASTIC PAVT. MARKING- LINE 24"	PAINT PAVEMENT MARKING- LETTERS & SYMBOLS	PAINT PAVEMENT MARKING- LINE 4"	PAINT PAVEMENT MARKING- LINE 6"	PAINT PAVEMENT MARKING- LINE 12"	PAINT PAVEMENT MARKING- LINE 24"	RAISED REFELCTIVE PAVEMENT MARKING
		78000100	78000200	78000400	78000600	78000650	78001100	78001110	78001130	78001150	78001180	78100100
		(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)
31ST STREET	207+26 TO 216+00	36	3177	330	151	81	0	0	0	0	0	90
GOLFVIEW ROAD	10+58 TO 26+14.88	364	2896	1469	114	72	0	0	0	0	0	90
ZOO NORTH LOT	100+70 TO 113+70.87	0	0	0	0	0	146	6804	2621	1005	24	0
*EXISTING MARKINGS REPLACEMENT		0	1852	0	0	0	0	0	0	0	0	62
	TOTALS	400	7925	1799	265	153	146	6804	2621	1005	24	242

FILE NAME = ...\04-Schedules\2563_SCH_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - DTE	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -	

SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	18
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

		EARTH EXCAVATION																
		STAGE I			STAGE II			STAGE III			STAGE IV			STAGE V			TOTALS BY STATION		
STATION TO STATION		CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	CUT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
31ST STREET	207+06 TO 211+00	202.8	0.0	202.8	97.7	0.0	97.7	226.9	0.0	226.9	---	---	---	---	---	---	527.4	0.0	527.4
	211+00 TO 216+00	212.1	0.0	212.1	0.0	0.0	0.0	252.7	51.0	201.7	---	---	---	---	---	---	464.8	51.0	413.8
GOLVIEW AVENUE	10+50 TO 16+00	---	---	---	151.9	0.0	0.0	85.6	0.0	85.6	0.0	0.0	0.0	0.0	0.0	0.0	237.5	0.0	85.6
	16+00 TO 26+14.88	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	539.6	0.0	539.6	539.6	0.0	539.6
ZOO NORTH LOT	100+70 TO 107+00	0.0	0.0	0.0	144.8	0.0	144.8	155.6	0.0	155.6	12.4	0.0	12.4	---	---	---	312.8	0.0	312.8
	107+00 TO 113+70.87	6173.4	0.0	6173.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	6173.4	0.0	6173.4
TOTALS		6588.3	0.0	6588.3	394.4	0.0	242.5	720.8	51.0	669.8	12.4	0.0	12.4	539.6	0.0	539.6	8255.5	51.0	8052.6
ADJUSTED QUANTITY																		55	8055
31ST STREET		414.9	0.0	414.9	97.7	0.0	97.7	479.6	51.0	428.6	0.0	0.0	0.0	0.0	0.0	0.0	992.2	51.0	941.2
GOLFVIEW AVENUE		0.0	0.0	0.0	151.9	0.0	0.0	85.6	0.0	85.6	0.0	0.0	0.0	539.6	0.0	539.6	777.1	0.0	625.2
ZOO NORTH LOT		6173.4	0.0	6173.4	144.8	0.0	144.8	155.6	0.0	155.6	12.4	0.0	12.4	0.0	0.0	0.0	6486.2	0.0	6486.2

		STAGE I		STAGE II		STAGE III		STAGE IV		STAGE V		TOTALS BY STATION	
STATION TO STATION		EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
31ST STREET	207+06 TO 211+00	353.7	236.1	0.0	-83.0	40.4	-132.3	---	---	---	---	394.1	20.7
	211+00 TO 216+00	60.5	-102.4	0.0	0.0	23.3	-83.4	---	---	---	---	83.8	-185.7
GOLVIEW AVENUE	10+50 TO 16+00	0.0	0.0	0.0	0.0	85.5	40.7	22.9	22.9	0.0	0.0	108.4	63.6
	16+00 TO 26+14.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.0	-194.5	164.0	-194.5
ZOO NORTH LOT	100+70 TO 107+00	0.0	0.0	171.2	100.6	0.0	-111.5	13.3	11.4	---	---	184.5	0.5
	107+00 TO 113+70.87	325.9	-4324.4	0.0	0.0	0.0	0.0	0.0	0.0	---	---	325.9	-4324.4
TOTALS BY STAGE		740.1	-4190.7	171.2	17.5	149.2	-286.5	36.2	34.3	164.0	-194.5	1260.7	-4619.9
CUMULATIVE TOTALS		740.1	-4190.7	911.3	-4173.2	1060.5	-4459.7	1096.7	-4425.4	1260.7	-4619.9		
ADJUSTED QUANTITY												1265	-4620
31ST STREET		414.2	133.7	0.0	-83.0	63.7	-215.7	0.0	0.0	0.0	0.0		
GOLFVIEW AVENUE		0.0	0.0	0.0	0.0	85.5	40.7	22.9	22.9	164.0	-194.5		
ZOO NORTH LOT		325.9	-4324.4	171.2	100.6	0.0	-111.5	13.3	11.4	0.0	0.0		
		EMBANKMENT	FURN EX	EMBANKMENT	FURN EX	EMBANKMENT	FURN EX	EMBANKMENT	FURN EX	EMBANKMENT	FURN EX		
		STAGE 1A		STAGE 1B		STAGE 2A		STAGE 2B		STAGE 2C			

FURNISHED EXCAVATION = EMBANKMENT - ((1 - SHRINKAGE FACTOR (0.15)) x (EARTH EXCAVATION - TOPSOIL EXCAVATION))

A POSITIVE QUANTITY IMPLIES THAT FURNISHED EXCAVATION WILL BE REQUIRED.

A NEGATIVE QUANTITY IMPLIES THAT THERE IS EXCESS EXCAVATED MATERIAL THAT CAN BE USED ELSEWHERE IN THE PROJECT LIMITS.

FILE NAME = ...\84-Schedules\2563_SCH_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULE OF QUANTITIES**
		DRAWN - DTE	REVISED -		
	PLOT SCALE = 1.0000 ' / in.	CHECKED - GAB	REVISED -		
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		SCALE: NONE | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	19
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT				

STATION		CLASS D PATCHES, TYPE IV, 10"	PAVEMENT MARKING TAPE, TYPE III - LETTERS & SYMBOLS	PAVEMENT MARKING TAPE, TYPE III - 4"	PAVEMENT MARKING TAPE, TYPE III - 6"	PAVEMENT MARKING TAPE, TYPE III - 24"	PERIMETER EROSION BARRIER	INLET FILTERS
		44201771	70300510	70300520	70300540	70300570	28000400	28000510
		(SQYD)	(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)
STAGE I	207+06 TO 216+00	135	0	5426	0	46	648	15
	106+75 TO 113+70.87	66	0	0	0	0	901	14
STAGE II	207+06 TO 216+00	0	0	3637	0	10	467	4
	10+58 TO 26+14.88	0	36.4	0	52	0	0	2
	100+00 TO 110+00	0	0	1688	0	12	0	6
STAGE III	207+06 TO 216+00	0	0	6773	0	10	0	0
	10+58 TO 26+14.88	0	0	698	0	0	0	0
	100+00 TO 110+00	0	0	626	0	0	0	0
STAGE IV	10+58 TO 26+14.88	0	0	0	0	0	0	0
	100+00 TO 106+75	0	0	1074	0	0	0	5
STAGE V	19+10 TO 26+14.88	0	0	0	0	0	567	7
	TOTALS	201	36.4	19922	52	78	2583	53

STATION		SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE B	RELOCATE SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	SIGN AND POST
		72000100	72400100	72400500	72400600	72400710	72800100	X0326696
		(SQFT)	(EACH)	(EACH)	(EACH)	(SQFT)	(FOOT)	(EACH)
31ST STREET	207+26 TO 216+00	9	0	2	3	0	138	0
GOLFVIEW AVENUE	10+58 TO 26+14.88	54.68	1	0	1	16	145	0
ZOO NORTH LOT	100+70 TO 105+00	0.00	0	0	0	0	0	2
	105+00 TO 110+50	10.36	0	0	0	0	0	13
	110+50 TO 113+70.87	5.18	0	0	0	0	0	5
	TOTALS	79.22	1	2	4	16	283	20

STATION		SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING,SALT TOLERANT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TOPSOIL FURNISH AND PLACE, 24"
		25000210	25000400	25000600	25200110	25100630	28000250	21101685
		(ACRE)	(POUND)	(POUND)	(SQYD)	(SQYD)	(POUND)	(SQYD)
31ST STREET	207+26 TO 216+00	0.40	30.00	30.00	506	1944	40.00	180
GOLFVIEW AVENUE	10+58 TO 26+14.88	0.30	17.76	17.76	0	1431	29.60	0
ZOO NORTH LOT	100+70 TO 113+70.87	0.66	39.60	39.60	0	3224	66.00	0
	TOTALS	1.36	87.36	87.36	506	6599	135.60	180
	ADJUSTED QUANTITY	1.50	88	88			136	

STATION TO STATION		TOPSOIL EXCAVATION					
		STAGE I	STAGE II	STAGE III	STAGE IV	STAGE V	TOTALS BY STATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
31ST STREET	207+06 TO 211+00	64.4	0.0	23.7	0.0	0	88.1
	211+00 TO 216+00	20.5	0.0	76.2	0.0	0	96.7
GOLFVIEW AVENUE	10+50 TO 16+00	0.0	0.0	32.9	0.0	0.0	32.9
	16+00 TO 26+14.88	0.0	0.0	0.0	0.0	117.8	117.8
ZOO NORTH LOT	100+70 TO 107+00	0.0	61.7	24.4	10.2	0.0	96.3
	107+00 TO 113+70.87	702.5	0.0	0.0	0.0	0.0	702.5
	TOTALS	787.4	61.7	157.2	10.2	117.8	*1134.3

STATION TO STATION		TOPSOIL PLACEMENT					
		STAGE I	STAGE II	STAGE III	STAGE IV	STAGE V	TOTALS BY STATION
		(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)	(CUYD)
31ST STREET	207+06 TO 211+00	89.0	---	29.1	---	---	118.1
	211+00 TO 216+00	213.1	---	44.0	---	---	257.1
GOLFVIEW AVENUE	10+50 TO 16+00	---	---	75.3	---	---	75.3
	16+00 TO 26+14.88	---	---	0.0	---	123.6	123.6
ZOO NORTH LOT	100+70 TO 107+00	---	79.1	---	6.6	---	85.7
	107+00 TO 113+70.87	261.5	---	---	---	---	261.5
	TOTALS	563.6	79.1	148.4	6.6	123.6	*921.3

* EXCESS TOPSOIL EXCAVATION WILL BE PAID FOR AS EARTH EXCAVATION

FILE NAME = ...\04-Schedules\2563_SCH_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
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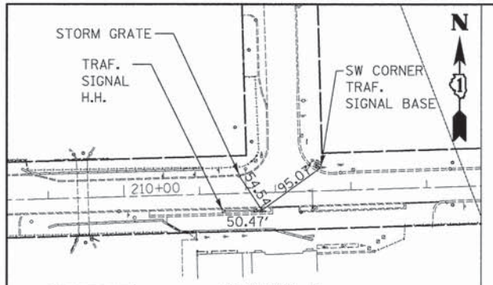
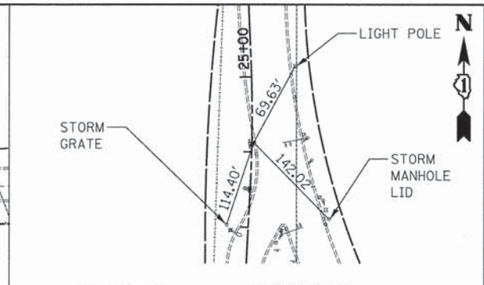
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		

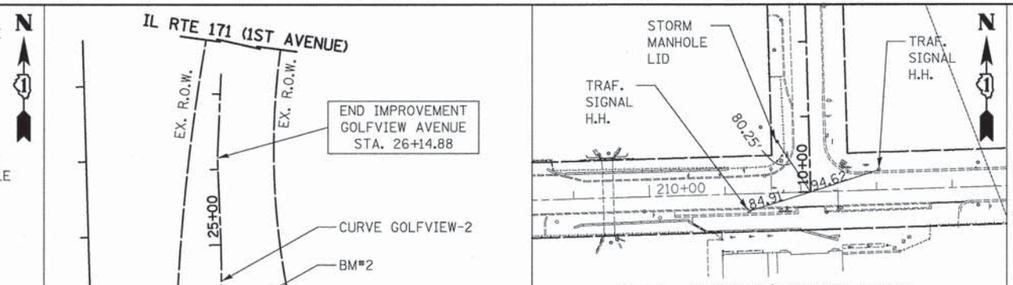
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	20
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



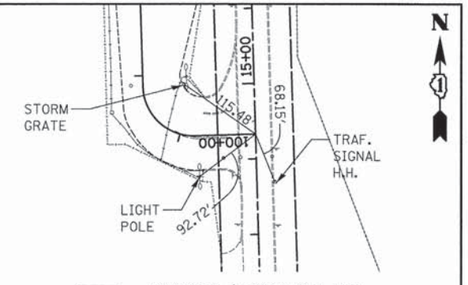
BM#1 — BENCHMARK #1
STA. 211+81.10, 24.51' RT
N. 1,882,934.58 - E. 1,120,423.80



BM#2 — BENCHMARK #2
STA. 24+12.61, 2.40' RT
N. 1,884,369.82 - E. 1,120,430.70



A — PROPOSED ℄ GOLFVIEW AVENUE
STA. 10+00.00, 0.00' RT
N. 1,882,959.21 - E. 1,120,454.93



B — PROPOSED ℄ ZOO NORTH LOT
STA. 100+00.00, 0.00' RT
N. 1,883,391.77 - E. 1,120,442.09

NOTE:

COORDINATES ARE BASED ON THE PUBLISHED METRIC COORDINATE VALUES AT FOUND N.G.S. MONUMENT "ME1780". A 1/2 INCH COPPER BOLT SET IN THE TOP OF A CONCRETE POST AND COVERED WITH A 10 INCH SQUARE CAST IRON BOX LOCATED AT THE SW CORNER OF NEVA AVENUE AND 56TH STREET, 9 1/2 FEET EAST OF THE WEST EDGE OF THE WEST SIDE WALK ON NEVA AVENUE, 8 1/2 FEET NORTH OF THE SOUTH EDGE OF THE SOUTH SIDEWALK ON 56TH STREET, ABOUT LEVEL WITH THE SIDEWALK. ELEVATION = 613.89. SURFACE COORDINATES ARE SHOWN IN U.S. SURVEY FEET. ELEVATIONS ARE ON NAVD 88 DATUM.

BM #	APPROXIMATE LOCATION	ELEVATION
1	SQUARE CUT IN THE NORTH SIDE OF TRAFFIC SIGNAL BASE LOCATED AT THE SW CORNER OF 31ST STREET AND GOLFVIEW AVENUE	619.20
2	SQUARE CUT IN THE SE CORNER OF TRAFFIC SIGNAL MANHOLE LOCATED AT THE WEST SIDE OF GOLFVIEW AVENUE AND 1ST AVENUE	619.86

LEGEND
EXISTING R.O.W. ————
BENCHMARK △

31ST STREET
EXISTING ℄ COORDINATE TABLE

STATION	NORTHING	EASTING
207+06.00	1,882,944.30	1,119,948.31
212+12.84	1,882,959.21	1,120,454.93
216+00.00	1,882,971.28	1,120,841.90

GOLFVIEW AVENUE
PROPOSED ℄ COORDINATE TABLE

STATION	NORTHING	EASTING
10+00.00	1,882,944.30	1,119,948.31
14+32.75	1,882,959.21	1,120,454.93
19+10.00	1,883,868.81	1,120,427.93
21+19.32(PC)	1,884,078.04	1,120,421.71
21+97.56(PI)	1,884,156.24	1,120,419.39
22+75.71(PT)	1,884,234.37	1,120,423.51
23+46.42(PC)	1,884,304.98	1,120,427.23
24+37.21(PI)	1,884,395.64	1,120,432.00
25+27.86(PT)	1,884,486.35	1,120,428.11
26+14.88	1,884,573.29	1,120,424.38

PROP. CURVE GOLFVIEW-1
PI STA. = 21+97.56
Δ = 4° 42' 58" (RT)
R = 1,900.00'
T = 78.24'
L = 156.39'
E = 1.61'
P.C. STA = 21+19.32
P.T. STA = 22+75.71

PROP. CURVE GOLFVIEW-2
PI STA. = 24+37.21
Δ = 5° 28' 17" (LT)
R = 1,900.00'
T = 90.79'
L = 181.44'
E = 2.17'
P.C. STA = 23+46.42
P.T. STA = 25+27.86

PROP. CURVE ZOO-1
PI STA. = 101+46.85
Δ = 90° 00' 00" (RT)
R = 67.00'
T = 67.00'
L = 105.24'
E = 27.75'
P.C. STA = 100+79.85
P.T. STA = 101+85.09

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		DRAWN - DTE	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	21
		CONTRACT NO. 63764		
	ILLINOIS FED. AID PROJECT			

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL

IMPROVEMENT BEGINS
STA. 207+06.00

REMOVING CATCH BASINS
SAW CUT
REMOVING CATCH BASINS
245 SQ YD DRIVE PAVEMENT REM
RELOCATE SIGN PANEL ASSEMBLY TYPE A
1803 SQ YD PAVEMENT REMOVAL
309 FT COMB CURB GUTTER REM
66 FT COMB CURB GUTTER REM
RELOCATE SIGN PANEL ASSEMBLY TYPE B
EX ROW
206
207
208
209
210+00
SAW CUT
REMOVING CATCH BASINS
394 FT COMB CURB GUTTER REM
68 FT COMB CURB GUTTER REM
REMOVING CATCH BASINS
C-6
27 FT COMB CURB GUTTER REM
27 FT COMB CURB GUTTER REM
RELOCATE SIGN PANEL ASSEMBLY TYPE B
80 FT CONCRETE BARRIER REMOVAL
53 SQ YD DRIVE PAVEMENT REM
SAW CUT
89 SQ YD PAVEMENT REMOVAL
385 SQ FT CONC MEDIAN SURF REM
EX ROW
MATCH LINE STA. 211+00
31ST STREET

GOLFVIEW AVENUE
MATCH LINE STA. 10+75
SEE SHEET NO. 23

REMOVING MANHOLES
23 FT CHAIN LINK FENCE REMOVAL
CHAIN LINK GATES REMOVAL (2)
65 FT CHAIN LINK FENCE REMOVAL
REMOVING CATCH BASINS
125 FT COMB CURB GUTTER REM
RETAINING WALL REMOVAL
RELOCATE EXISTING LIGHTING UNIT
RELOCATE SIGN PANEL ASSEMBLY TYPE A
RELOCATE SIGN PANEL ASSEMBLY TYPE B
IMPROVEMENT ENDS
STA. 216+00.00
EX ROW
REMOVING CATCH BASINS
400 FT COMB CURB GUTTER REM
REMOVING MANHOLES
B-5
B-6
C-7
MATCH LINE STA. 211+00
10+00
211
212
213
214
215+00
216
96 FT COMB CURB GUTTER REM
499 SQ FT CONC MEDIAN SURF REM
21 SQ YD HMA SURF REM BUTT JT
141 FT COMB CURB GUTTER REM
726 SQ FT CONC MEDIAN SURF REM
CHAIN LINK GATES REMOVAL
REMOVING MANHOLES
REMOVING CATCH BASINS
22 FT COMB CURB GUTTER REM
2592 SQ YD HMA SURF REM 2 3/4
500 FT COMB CURB GUTTER REM
20 SQ YD HMA SURF REM BUTT JT
REMOVE EXISTING FLAGPOLE (3)
150 FT CONCRETE BARRIER REMOVAL
REMOVE EXISTING FLAGPOLE (3)
SAW CUT
SAW CUT
1589 SQ YD PAVEMENT REMOVAL
EX ROW
31ST STREET

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

(R1) 58' - STORM SEWER REM 8 TBF = 8.0 CU YD
(R2) 7' - STORM SEWER REM 8 TBF = 1.0 CU YD
(R3) 3' - STORM SEWER REM 8 TBF = 0.4 CU YD
(R4) 2' - STORM SEWER REM 8 TBF = 0.0 CU YD
(R5) 5' - STORM SEWER REM 8 TBF = 0.0 CU YD
(R6) 44' - STORM SEWER REM 8 TBF = 0.0 CU YD
(R6A) 71' - STORM SEWER REM 15 TBF = 10.9 CU YD
(R7) 23' - STORM SEWER REM 8 TBF = 0.0 CU YD
(R8) 5' - STORM SEWER REM 8 TBF = 0.0 CU YD
(R8A) 4' - STORM SEWER REM 12 TBF = 0.0 CU YD
(R8B) 4' - STORM SEWER REM 12 TBF = 0.0 CU YD
(R9) 5' - STORM SEWER REM 8 TBF = 0.0 CU YD

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		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

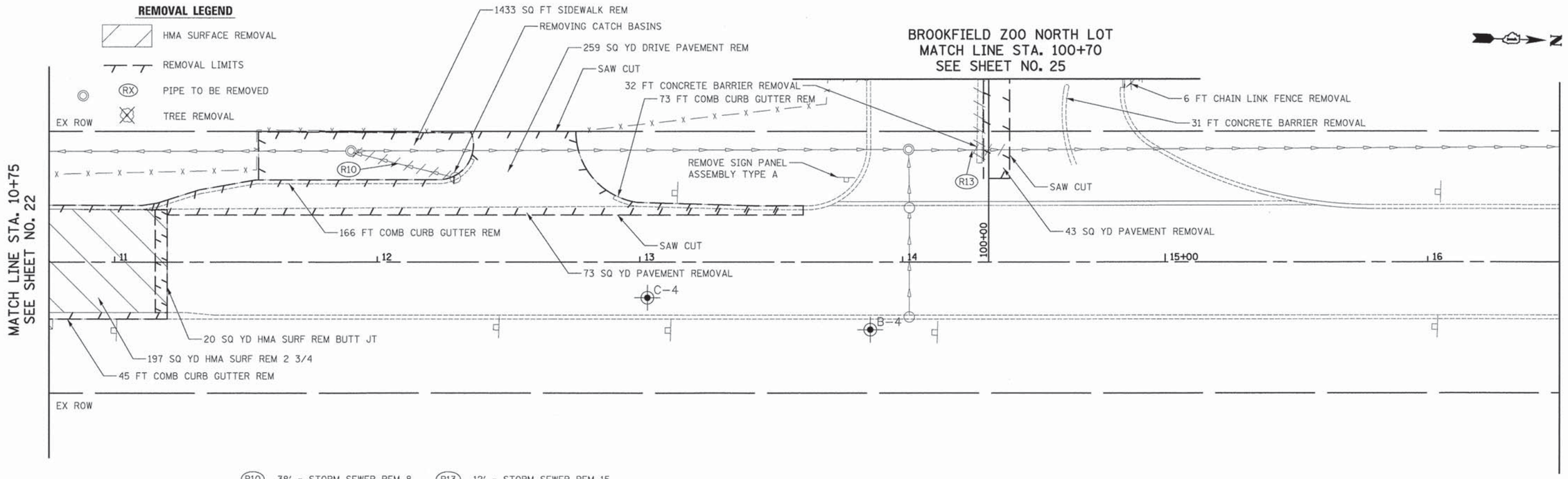
REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 6 SHEETS | STA. 207+26 TO STA. 216+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	22
		CONTRACT NO. 63764		
	ILLINOIS FED. AID PROJECT			

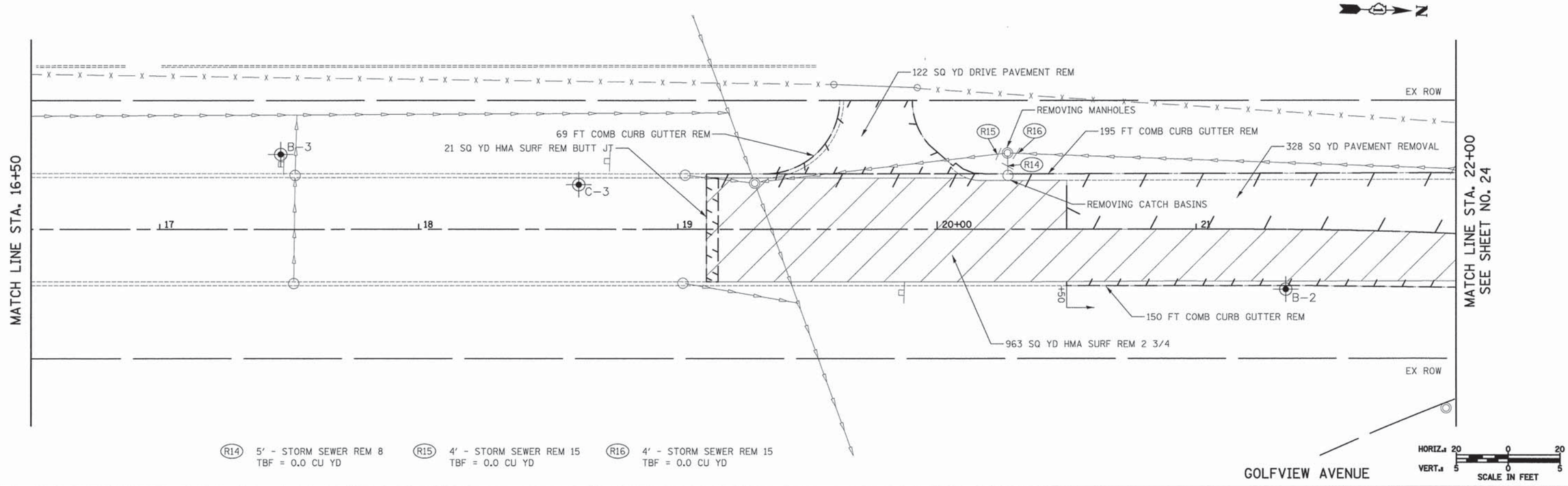
REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL



(R10) 38' - STORM SEWER REM 8
TBF = 0.0 CU YD

(R13) 12' - STORM SEWER REM 15
TBF = 10.1 CU YD



(R14) 5' - STORM SEWER REM 8
TBF = 0.0 CU YD

(R15) 4' - STORM SEWER REM 15
TBF = 0.0 CU YD

(R16) 4' - STORM SEWER REM 15
TBF = 0.0 CU YD

FILE NAME = ...\07-Removals\2563_REM_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
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	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 2 OF 6 SHEETS | STA. 10+75 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	23
		CONTRACT NO. 63764		
	ILLINOIS FED. AID PROJECT			

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL

N

MATCH LINE STA. 22+00
SEE SHEET NO. 24

IMPROVEMENT ENDS
STA. 26+14.88

RELOCATE EXISTING LIGHTING UNIT

RELOCATE SIGN PANEL - TYPE 1

RELOCATE SIGN PANEL ASSEMBLY TYPE B

(R17A)

(R17)

755 SQ YD PAVEMENT REMOVAL

RELOCATE SIGN PANEL - TYPE 1

423 FT COMB CURB GUTTER REM

B-1

C-1

EX ROW

22 | 23 | 24 | 25+00 | 26 | 27

SAW CUT

120 FT COMB CURB GUTTER REM

REMOVING CATCH BASINS

523 | 524 | 525+00

522

26 SQ YD HMA SURF REM BUTT JT

353 SQ YD HMA SURF REM 2 3/4

RELOCATE SIGN PANEL - TYPE 1

521

520+00

ILLINOIS ROUTE 171
(1ST AVENUE)

ILLINOIS ROUTE 171
(1ST AVENUE)

EX ROW

(R17) 98' - STORM SEWER REM 12
TBF = 0.0 CU YD

(R17A) 12' - STORM SEWER REM 15
TBF = 0.0 CU YD

GOLFVIEW AVENUE
IL RTE 171

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

FILE NAME = ...\07-Removals\2563_REM_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

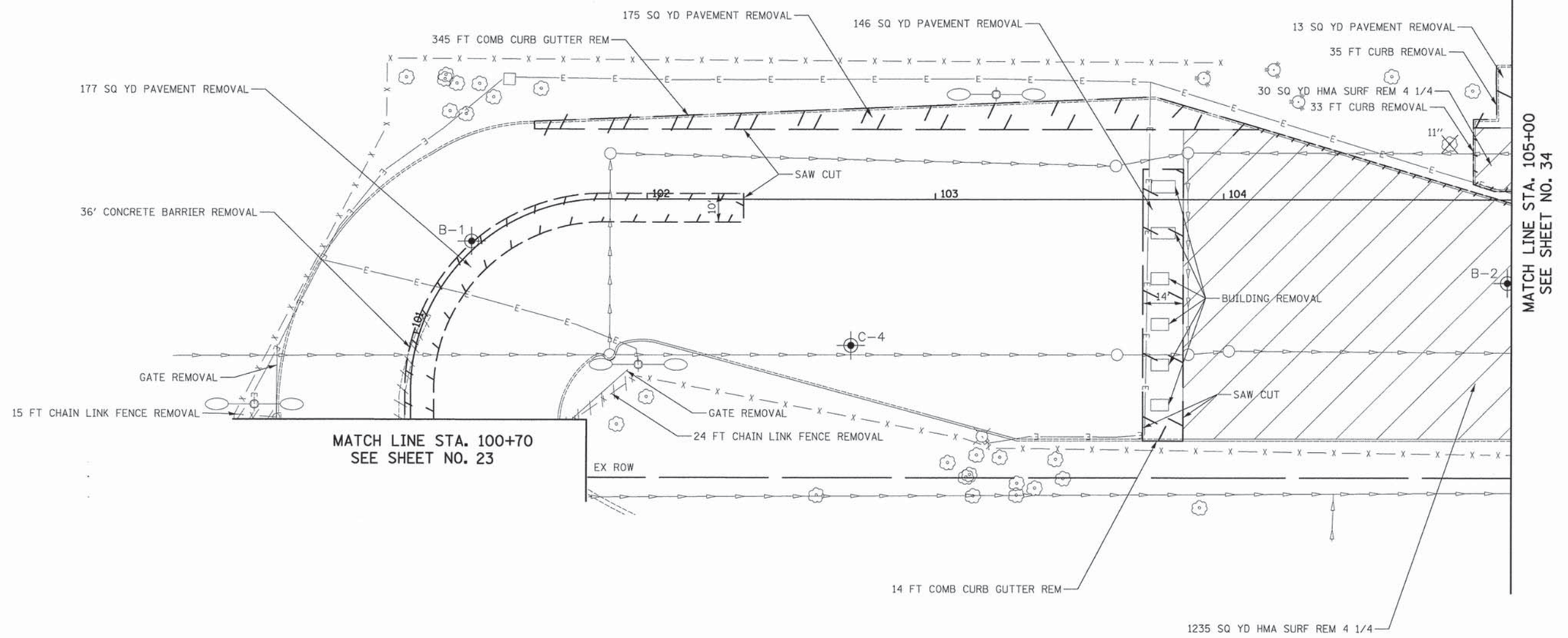
REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 6 SHEETS | STA. 22+00 TO STA. 26+15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	24
		CONTRACT NO. 63764		
	ILLINOIS FED. AID PROJECT			

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL



NOTES

1. SEE SHEET 98 FOR LIGHTING REMOVALS

BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

FILE NAME = ...\07-Removals\2563_REM_04.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 6 SHEETS | STA. 100+75 TO STA. 105+00

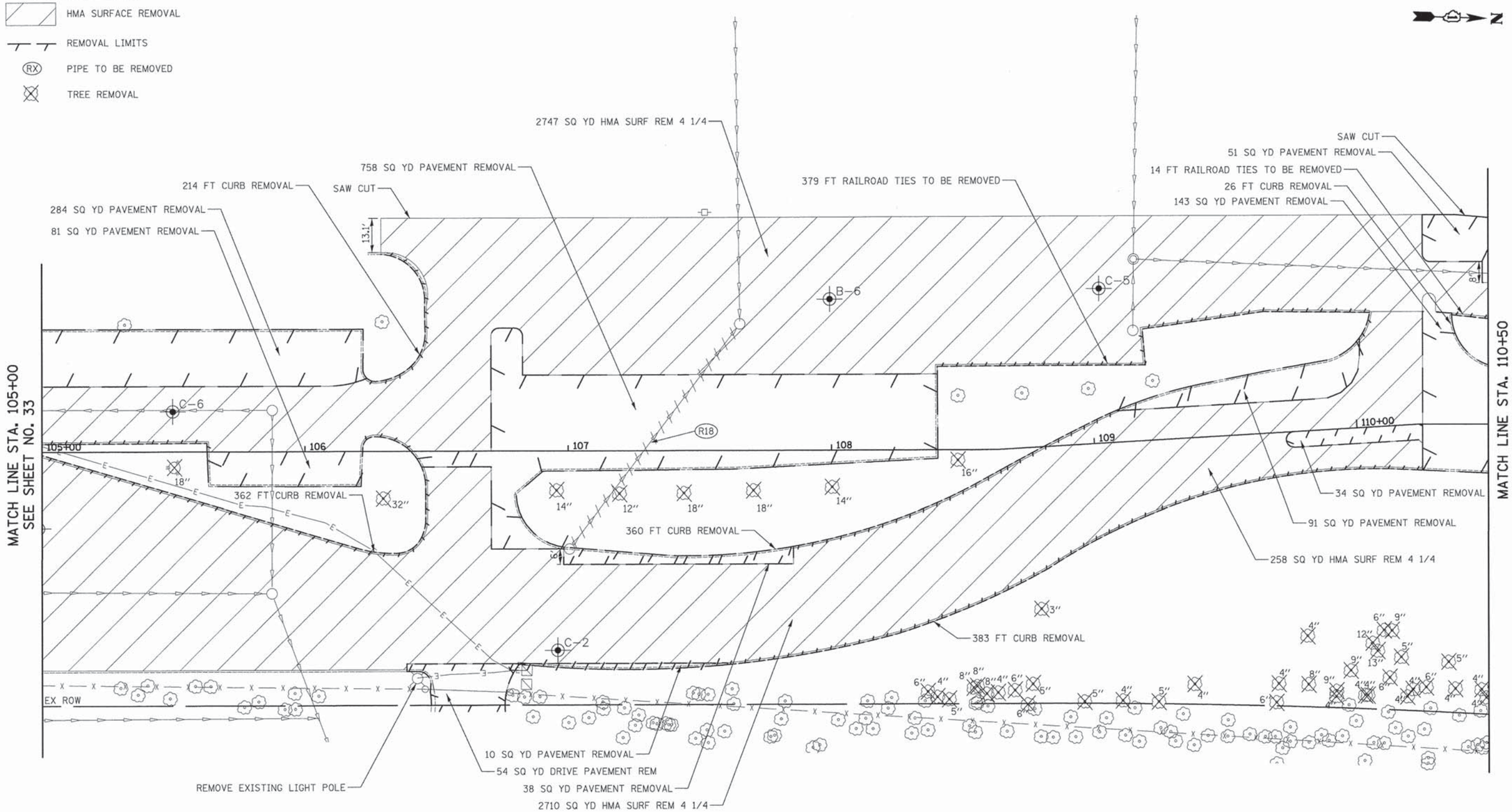
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	25

CONTRACT NO. 63764

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL



(R18) 104' - STORM SEWER REM 12
TBF = 52.8 CU YD

NOTES

1. SEE SHEET 98 FOR LIGHTING REMOVALS

BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

FILE NAME = ...\07-Removals\2563_REM_05.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

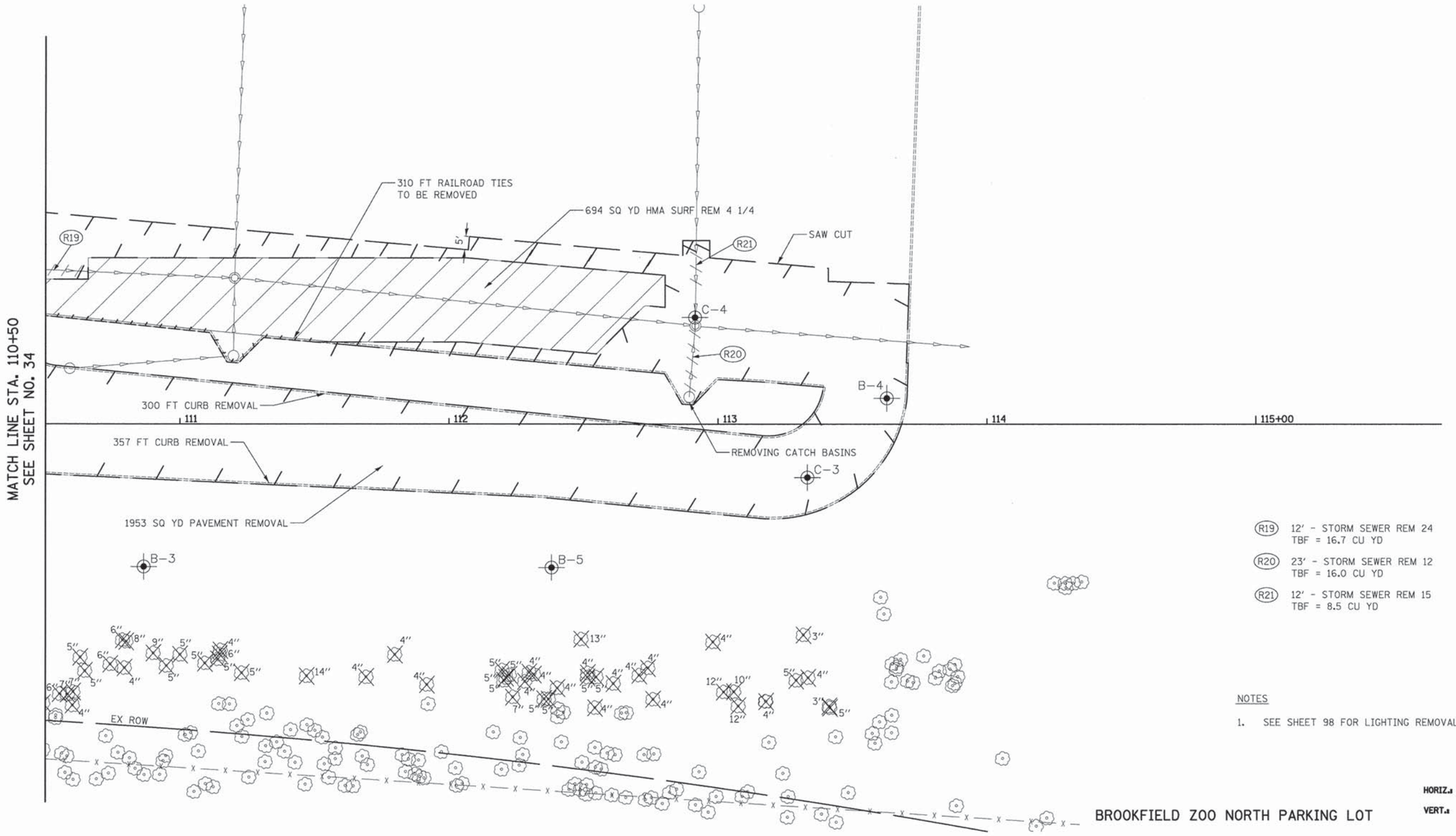
SCALE: 1" = 20' | SHEET NO. 5 OF 6 SHEETS | STA. 105+00 TO STA. 110+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	26
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

REMOVAL LEGEND

- HMA SURFACE REMOVAL
- REMOVAL LIMITS
- (RX) PIPE TO BE REMOVED
- TREE REMOVAL

N



(R19) 12' - STORM SEWER REM 24
TBF = 16.7 CU YD

(R20) 23' - STORM SEWER REM 12
TBF = 16.0 CU YD

(R21) 12' - STORM SEWER REM 15
TBF = 8.5 CU YD

NOTES

1. SEE SHEET 98 FOR LIGHTING REMOVALS

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

FILE NAME = ...\07-Removals\2563_REM_06.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
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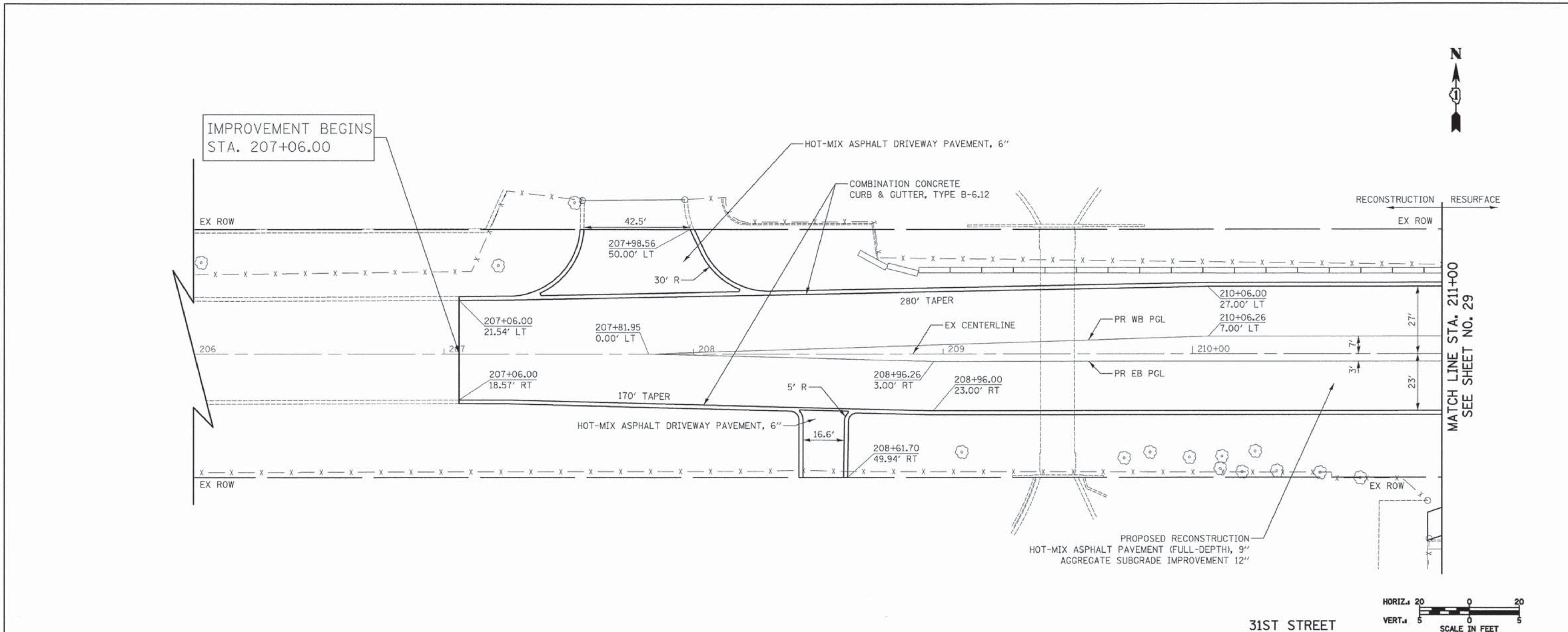
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

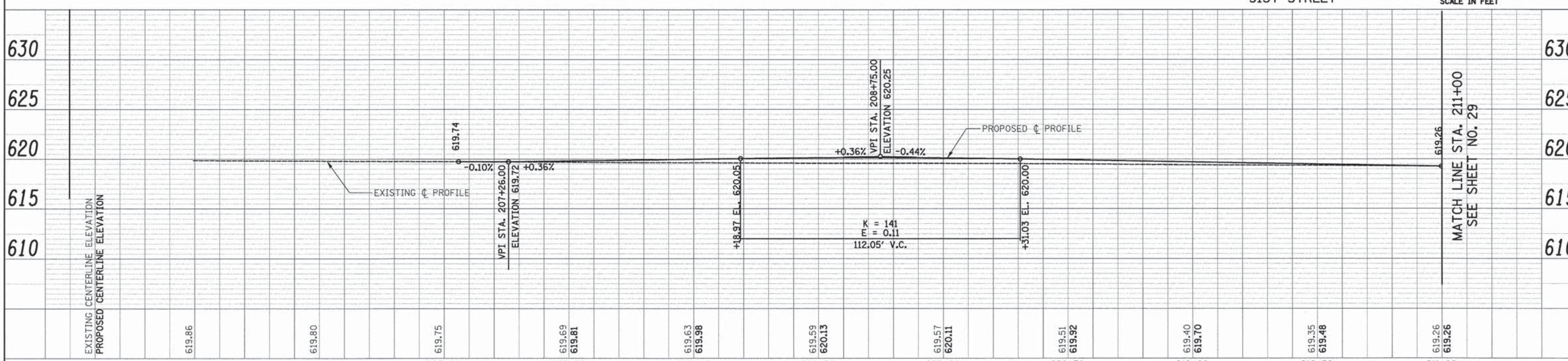
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1" = 20' | SHEET NO. 6 OF 6 SHEETS | STA. 110+50 TO STA. 113+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	27
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 5 SHEETS | STA. 206+00 TO STA. 211+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	28
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

GOLFVIEW AVENUE
MATCH LINE STA. 11+25
SEE SHEET NO. 30

MATCH LINE STA. 211+00
SEE SHEET NO. 28

IMPROVEMENT ENDS
STA. 216+00.00

N

11+20.01
20.00' LT

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.12

10+90.02
20.00' LT

CHAIN LINK FENCE, 4'

EX ROW

1'

63' R

20'

19.3'

PR RESURFACING

11

11+20.00
19.25' RT

10+65.30
27.23' RT

170' R

PR CENTERLINE

PROPOSED RESURFACING
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
LEVELING BINDER (MACHINE METHOD), N70, 3/4"

213+06.92
49.83' LT

212+70.85
39.72' LT

PC CONC SIDEWALK 5

213+06.89
34.41' LT

PROPOSED WIDENING
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"
AGGREGATE SUBGRADE IMPROVEMENT 12"

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.24

5'

55' R

280' TAPER

212+92.51
26.86' LT

213+20.00
26.81' LT

216+00.00
22.31' LT

211+29.82
27.00' LT

+75

27'

PR WB PGL

10+00

STA. 212+12.84 (31ST STREET)
STA. 10+00.00 (GOLFVIEW AVENUE)

EX CENTERLINE

211

10'

7'

PR EB PGL

212

213

214

215+00

216

23'

PROPOSED WIDENING
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"
AGGREGATE SUBGRADE IMPROVEMENT 12"

212+21.96
23.02' RT

PROPOSED BUS TURNOUT
PCC PVT 9 JOINTED
AGG SUBGRADE IMPR 12

213+20.00
23.19' RT

280' TAPER

214+84.97
20.11' RT

10'

216+00.00
17.97' RT

100' R

213+01.74
35.16' RT

12'

214+15.30
33.41' RT

50' R

CURB & GUTTER
TRANSITION

CONCRETE CURB, TYPE B

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.12

213+20.05
35.19' RT

12'

20' R

EX ROW

EX ROW

108' R

100' R

8' R

12'

120' R

PC CONC SIDEWALK 5

214+06.13
50.34' RT

HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"

CONCRETE CURB, TYPE B

10' R

88' R

8' R

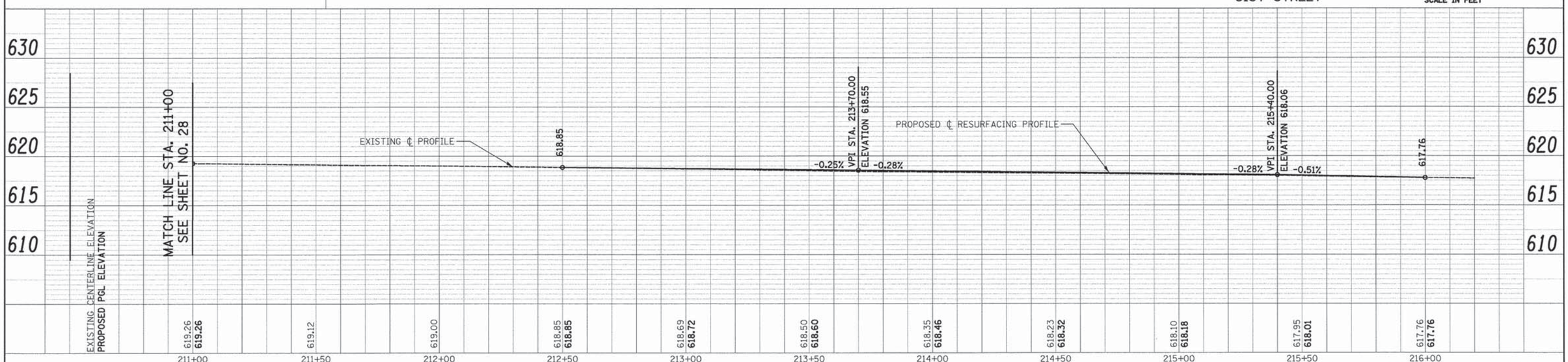
120' R

CHAIN LINK FENCE, 8'
(MATCH EXISTING KIND)

4' R

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

31ST STREET



PLAN
SURVEYED
PLOTTED
DRAWING CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWING CHECKED
BM. NOTES
STRUCTURE NO(TA'NS CK'KD
NOTE BOOK
NO.
BY
DATE

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	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

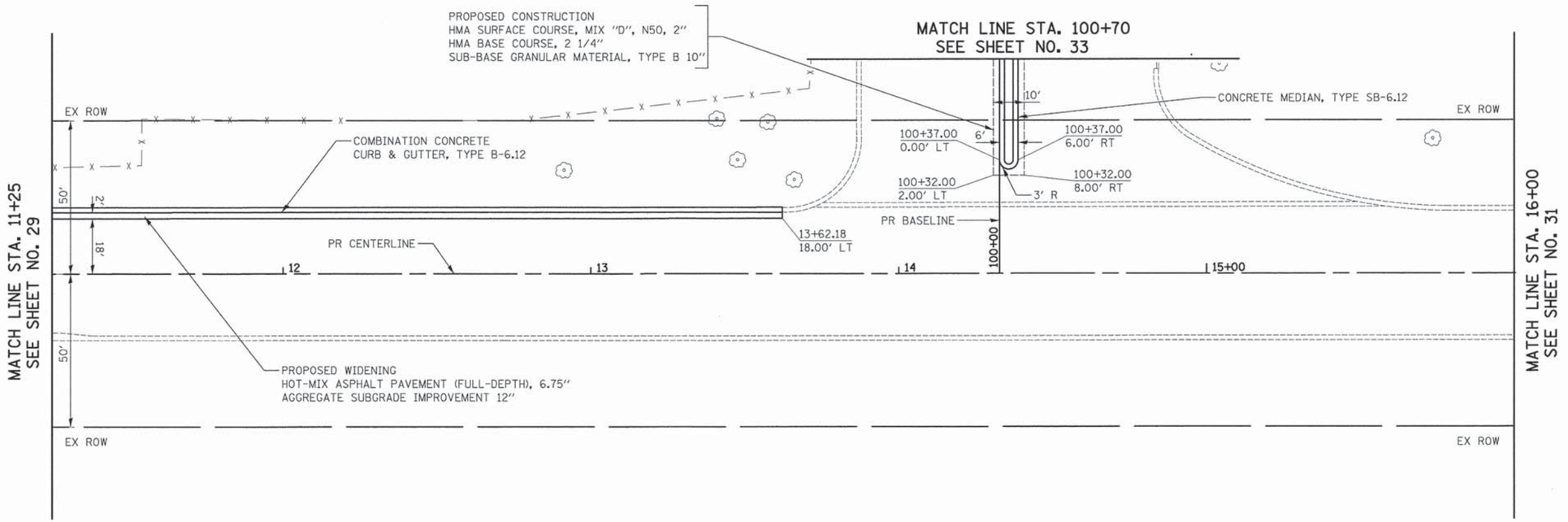
PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 2 OF 5 SHEETS | STA. 211+00 TO STA. 216+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	29
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

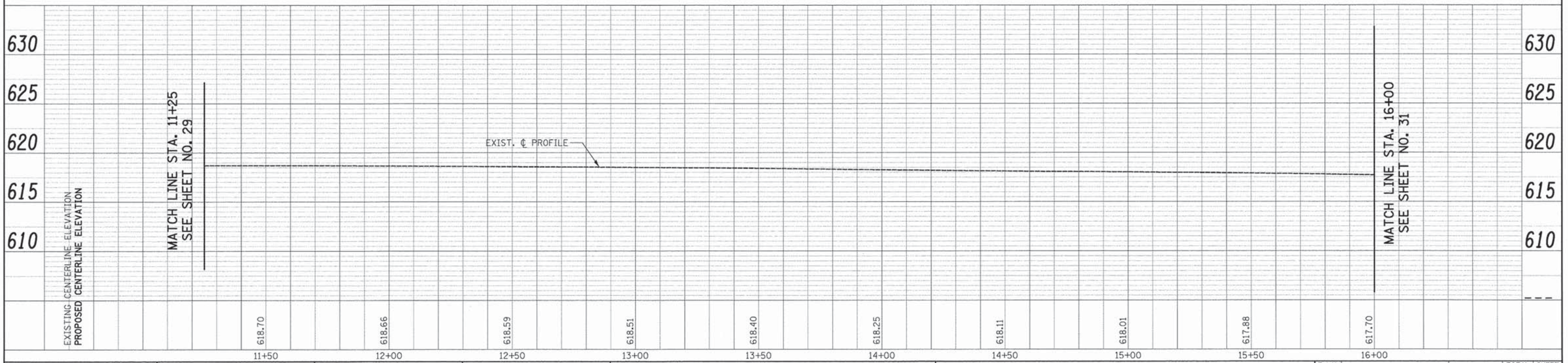
PLAN
SURVEYED
PLOTTED
GRADES CHECKED
R.P. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.P. OF WAY CHECKED
STRUCTURE NO(S).
NO.
BY
DATE



GOLFVIEW AVENUE

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET



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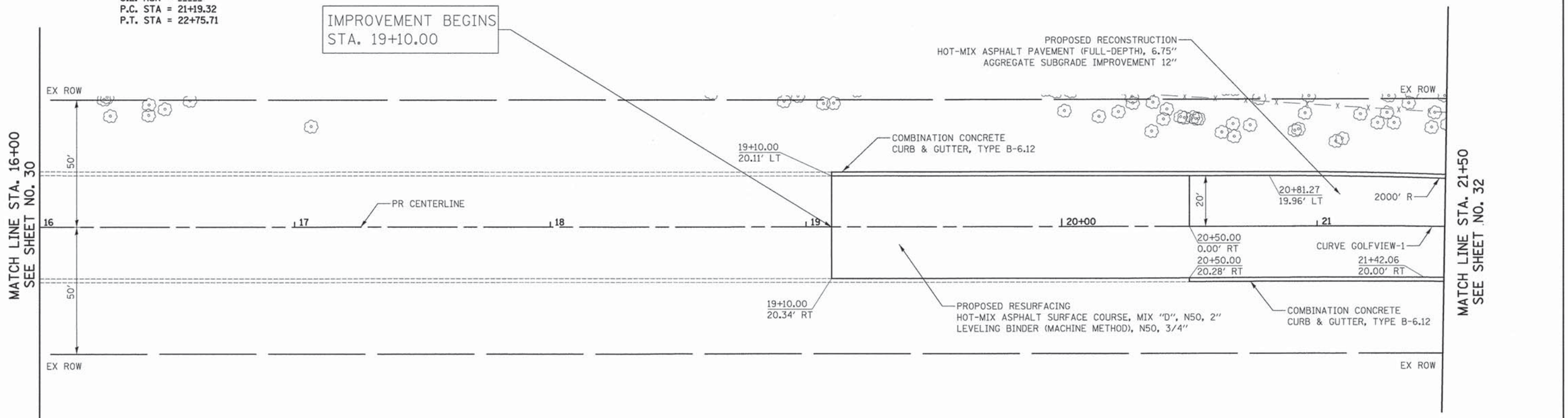
		DRAWN - DTE	REVISED - ___		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED - ___		
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		

SCALE: 1" = 20' | SHEET NO. 3 OF 5 SHEETS | STA. 11+25 TO STA. 16+00

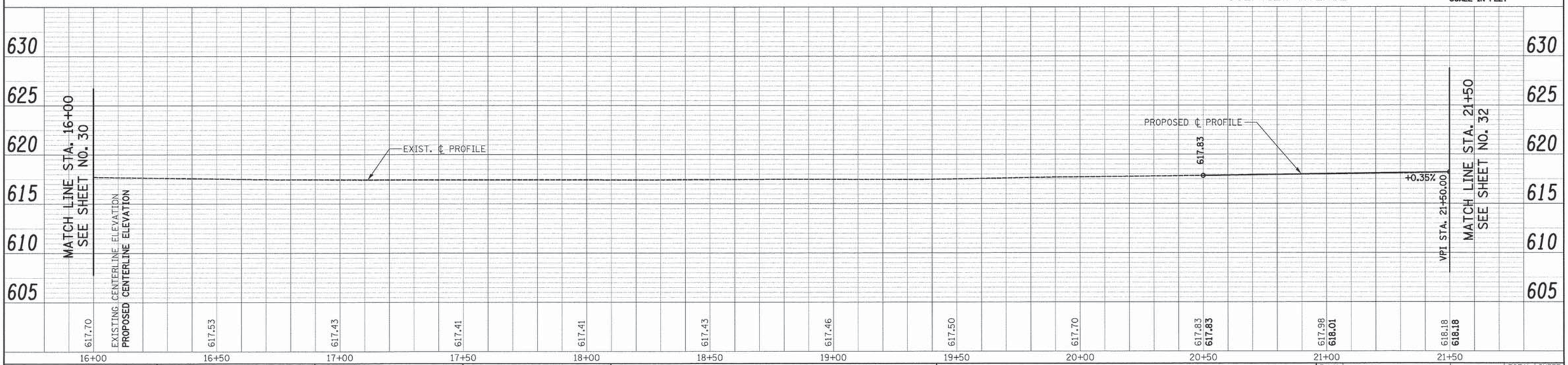
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	30
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROP. CURVE GOLFVIEW-1
PI STA. = 21+97.56
Δ = 4° 42′ 58″ (RT)
D = 3° 00′ 56″
R = 1,900.00′
T = 78.24′
L = 156.39′
E = 1.61′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 21+19.32
P.T. STA = 22+75.71



GOLFVIEW AVENUE

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET



PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | CROSS SECTIONS CHECKED | BM. NOTED | STRUCTURE NOTATING CHKD | NOTE BOOK | NO. | BY | DATE

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1″ = 20′ | SHEET NO. 4 OF 5 SHEETS | STA. 16+00 TO STA. 21+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	31
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED RESURFACING
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
LEVELING BINDER (MACHINE METHOD), N50, 3/4"

PROPOSED WIDENING
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6.75"
AGGREGATE SUBGRADE IMPROVEMENT 12"

PROPOSED RECONSTRUCTION
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6.75"
AGGREGATE SUBGRADE IMPROVEMENT 12"

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.12

PROP. CURVE GOLFVIEW-2
PI STA. = 24+37.21
Δ = 5° 28' 17" (LT)
D = 3° 00' 56"
R = 1,900.00'
T = 90.79'
L = 181.44'
E = 2.17'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 23+46.42
P.T. STA = 25+27.86

N

MATCH LINE STA. 21+50
SEE SHEET NO. 31

IMPROVEMENT ENDS
STA. 26+14.88

EX ROW

PR CENTERLINE

22+43.13
17.25' LT

22+38.48
0.00' RT

150' R

22+88.68
0.00' RT

CURVE GOLFVIEW-2

24+09.05
15.92' LT

24+52.05
0.00' LT

1600' R

25+62.85
12.30' LT

CURB & GUTTER TRANSITION
10'

26+14.88
12.30' LT

21+86.88
20.00' RT

1880' R

10'

22+02.45
20.00' RT

200' R

22+86.40
7.24' RT

22+91.01
8.77' RT

16'

27'

24'

23+03.25
41.67' RT

5' R

22+77.07
32.50' RT

23+57.40
32.12' RT

24+53.52
9.12' RT

LANDSCAPED MEDIAN

EX CENTERLINE

22+99.36
52.61' RT

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.24

ILLINOIS ROUTE 171
(1ST AVENUE)

GOLFVIEW AVENUE

HORIZ. 20 0 20
VERT. 5 0 5
SCALE IN FEET

PROFILE

MATCH LINE STA. 219+00

PROPOSED ℄ PROFILE
EXIST. ℄ PROFILE

+0.90%
ELEVATION 618.18

+86.06 EL. 619.41

HIGH POINT = STA. 23+66.90
ELEVATION = 619.81

K = 94
127.89' V.C.

+13.94 EL. 619.70

VPI STA. 23+50.00
ELEVATION 619.99

+0.90%
-0.46%

+40.00 EL. 619.58

K = 125
120.00' V.C.

+60.00 EL. 619.60

LOW POINT = STA. 24+97.47
ELEVATION = 619.44

-0.46%
+0.50%

VPI STA. 25+00.00
ELEVATION 619.30

619.88

	EXISTING CENTERLINE ELEVATION	PROPOSED PGL ELEVATION
21+50	618.18	618.18
22+00	618.53	618.63
22+50	619.15	619.09
23+00	619.59	619.53
23+50	619.97	619.77
24+00	619.53	619.75
24+50	619.24	619.53
25+00	619.36	619.44
25+50	619.52	619.55
26+00	619.79	619.80

635 630 625 620 615 610

PLAN — SURVEYED | PLOTTED | CHECKED | R.P. OF MAY CHECKED | NOTE BOOK | CADD FILE NAME | NO. | BY | DATE

PROFILE — SURVEYED | PLOTTED | CHECKED | R.P. NOTED | NOTE BOOK | STRUCTURE NO(TATN)S CHKD | NO. | BY | DATE

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED - ___

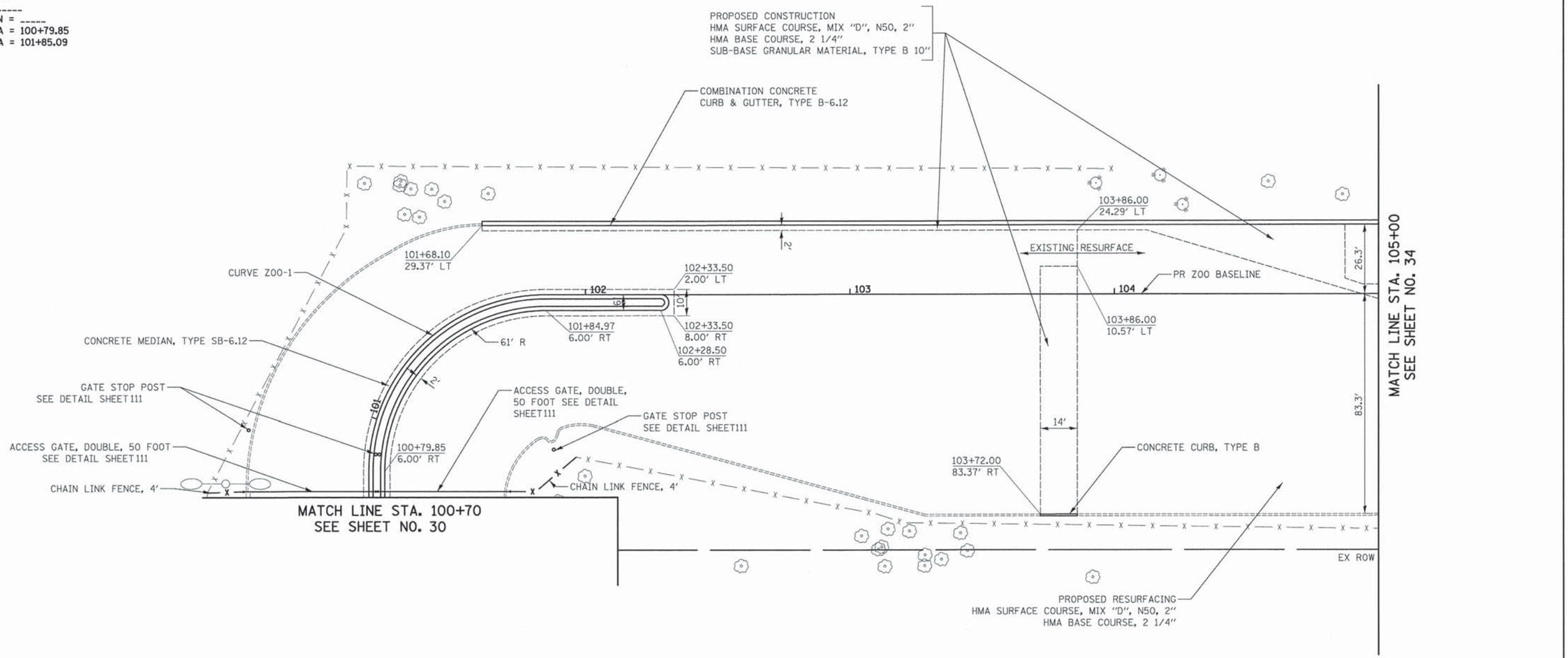
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1" = 20' | SHEET NO. 5 OF 5 SHEETS | STA. 21+50 TO STA. 26+15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	32
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROP. CURVE Z00-1
PI STA. = 101+46.85
Δ = 90° 00′ 00″ (RT)
D = 85° 30′ 58″
R = 67.00′
T = 67.00′
L = 105.24′
E = 27.75′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA = 100+79.85
P.T. STA = 101+85.09



BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

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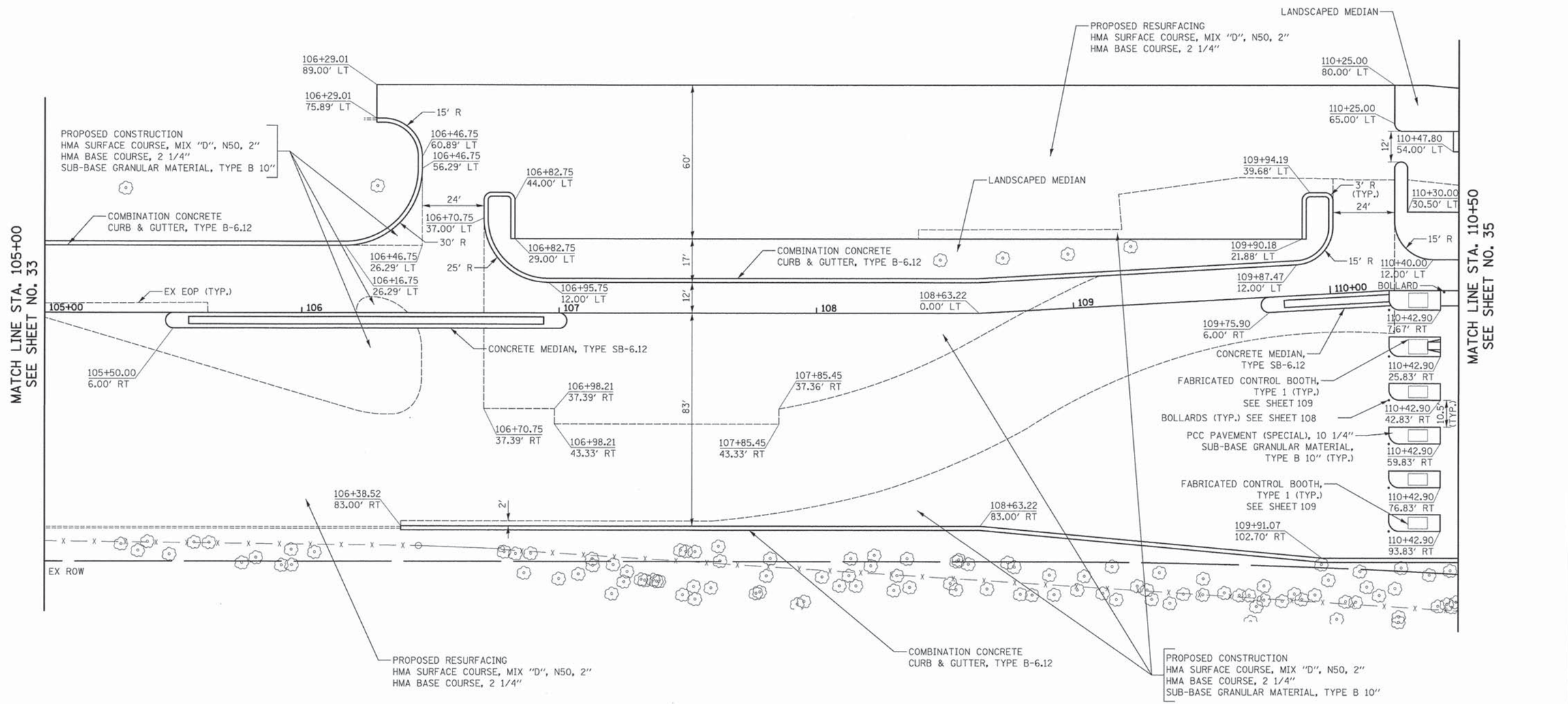
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO NORTH PARKING LOT PLANS

SCALE: 1" = 20′ | SHEET NO. 1 OF 6 SHEETS | STA. 100+75 TO STA. 105+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	33
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

FILE NAME = ...\2563_LOT_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BROOKFIELD ZOO NORTH PARKING LOT PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	131	34
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63764		
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -		SCALE: 1" = 20' SHEET NO. 2 OF 6 SHEETS STA. 105+00 TO STA. 110+50	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

PROPOSED RESURFACING
HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 2 1/4"

LANDSCAPED MEDIAN

PROPOSED CONSTRUCTION
HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 2 1/4"
SUB-BASE GRANULAR MATERIAL, TYPE B 10"

CONCRETE MEDIAN, TYPE SB-6.06

112+07.15
64.99' LT

112+07.59
69.97' LT

3' R

112+06.91
62.00' LT

5"

3"

112+96.89
68.61' LT

113+41.00
58.17' LT

113+71.03
52.23' LT

3' R

113+39.37
50.29' LT

112+73.67
44.05' LT

12'

3' R

112+80.33
40.71' LT

ACCESS GATE, DOUBLE, 40 FOOT
SEE DETAIL SHEET 111

112+54.75
26.15' LT

112+80.33
37.00' LT

113+18.02
17.33' LT

10' R

113+70.05
22.76' LT

CURB AND GUTTER TRANSITION

10'

113+31.83
13.39' LT

113+33.11
11.01' LT

GATE STOP POST
SEE DETAIL SHEET 111

25' R

50' R

112+99.60
6.70' LT

112+55.33
12.00' LT

ZOO PR BASELINE

111

112

113

114

115+00

112+74.60
0.00' LT

GATE STOP POST
SEE DETAIL SHEET 111

111+28.90
6.00' RT

LANDSCAPED MEDIAN

113+68.99
9.12' RT

COMBINATION CONCRETE
CURB & GUTTER, TYPE B-6.12

25' R

113+08.35
25.65' RT

PROPOSED CONSTRUCTION
HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 2 1/4"
SUB-BASE GRANULAR MATERIAL, TYPE B 10"

PROPOSED CONSTRUCTION
HMA SURFACE COURSE, MIX "D", N50, 2"
HMA BASE COURSE, 2 1/4"
SUB-BASE GRANULAR MATERIAL, TYPE B 10"

80' R

112+95.18
86.22' RT

110+68.90
103.67' RT

110+65.80
54.00' LT

111+29.90
30.50' LT

112+05.52
30.50' LT

MATCH LINE STA. 110+50
SEE SHEET NO. 34

8'

23.5'

18.5'

12'

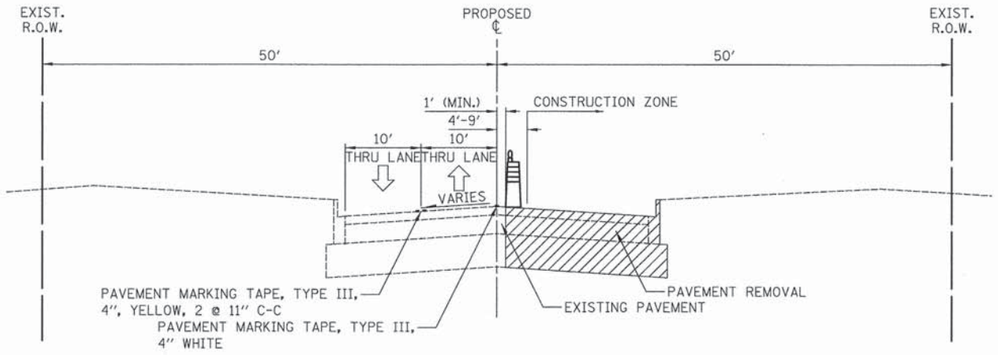
6'

98.3'

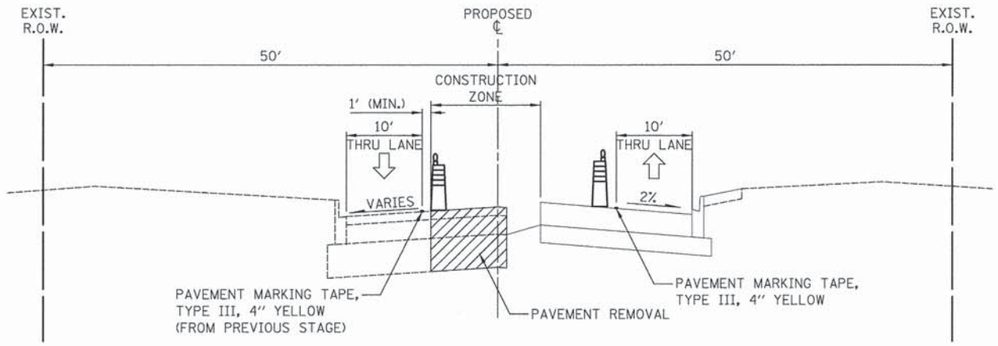
HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

BROOKFIELD ZOO NORTH PARKING LOT

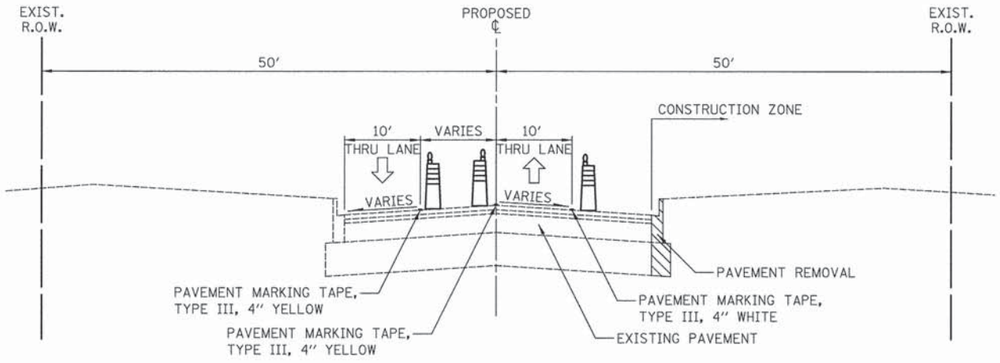
FILE NAME = ...\2563_LOT_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BROOKFIELD ZOO NORTH PARKING LOT PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -					3784	12-F3000-23-PK	COOK	131	35
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -								CONTRACT NO. 63764	
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		SCALE: 1" = 20'	SHEET NO. 3 OF 6 SHEETS	STA. 110+50 TO STA. 113+71	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



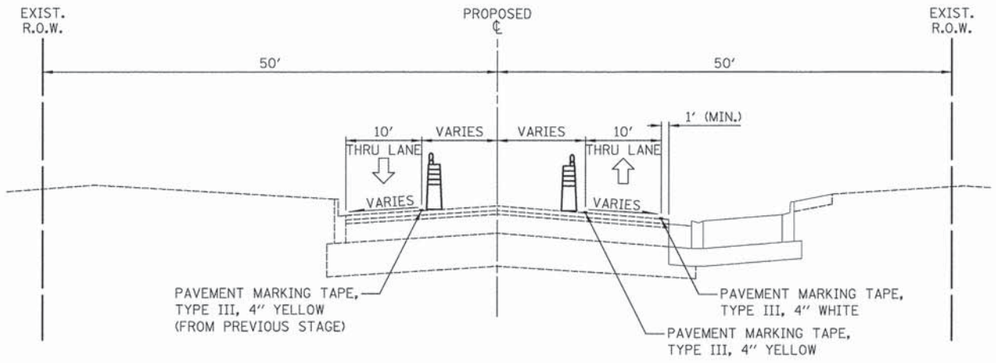
STAGE I
31ST STREET
STA. 207+06.00 TO STA. 211+00.00



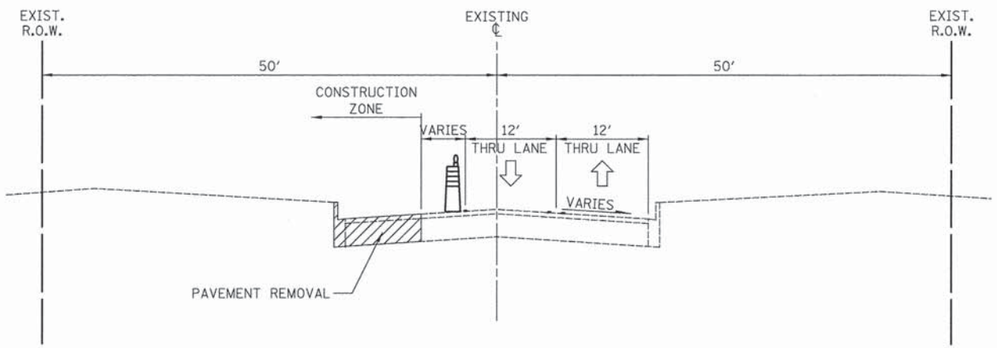
STAGE II
31ST STREET
STA. 207+06.00 TO STA. 211+00.00



STAGE I
31ST STREET
STA. 211+00.00 TO STA. 216+00.00



STAGE II
31ST STREET
STA. 211+00.00 TO STA. 216+00.00



STAGE II, III, IV
GOLFVIEW AVENUE
STA. 11+20.01 TO STA. 13+62.18

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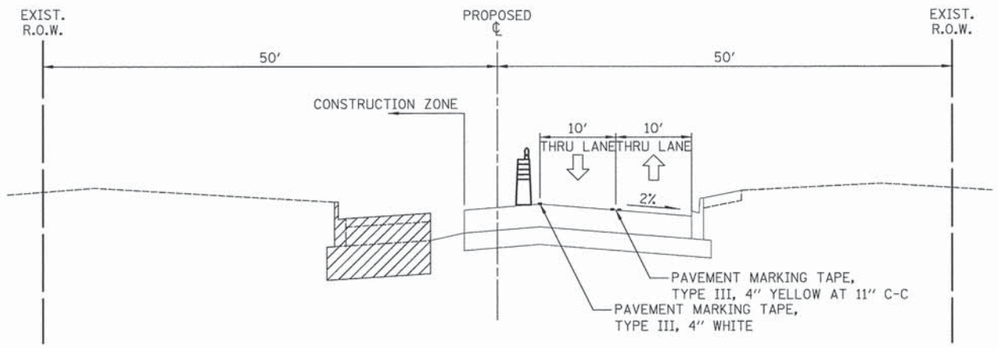
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 12 SHEETS | STA. 207+06.00 TO STA. 216+00.00

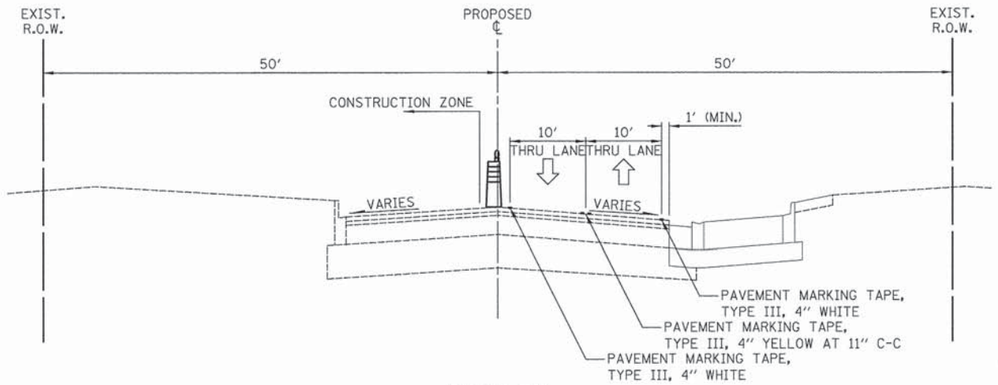
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	36
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STAGE III

31ST STREET

STA. 207+06.00 TO STA. 211+00.00



STAGE III

31ST STREET

STA. 211+00.00 TO STA. 216+00.00

STAGE I

-INSTALL EROSION CONTROL MEASURES.

-CONSTRUCT STORM SEWER CROSSING AND ADJACENT STRUCTURES AT STATION 207+16 AND PATCH PAVEMENT USING DAILY LANE CLOSURES.

-INSTALL TEMPORARY TRAFFIC SIGNALS AT THE 31ST STREET AND GOLFVIEW AVENUE INTERSECTION.

-REMOVE CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY TRAFFIC CONTROL MEASURES. ON 31ST STREET, CLOSE EASTBOUND LANES AND SHIFT TRAFFIC TO THE NORTH SIDE OF 31ST STREET. IN NORTH PARKING LOT, CLOSE NORTH ACCESS AND ROUTE TRAFFIC TO SOUTHERN DRIVE.

-SAWCUT THE TEMPORARY EDGE OF PAVEMENT. REMOVE EXISTING PAVEMENT, SIDEWALKS, TREES, AND OTHER ITEMS WITHIN THE WORK ZONE.

-CONSTRUCT STORM SEWER ON 31ST STREET AND STORM SEWER AND IN NORTH PARKING LOT WITHIN THE WORK ZONE. CONSTRUCT PROPOSED PAVEMENT BINDER COURSE TO THE LIMITS SHOWN ON 31ST STREET AND IN THE NORTH PARKING LOT. CONSTRUCT PROPOSED PAVEMENT BINDER COURSE WIDENING ON SOUTH SIDE OF 31ST STREET. CONSTRUCT PROPOSED SIDEWALK ALONG SOUTH SIDE OF 31ST STREET.

STAGE II

-INSTALL EROSION CONTROL MEASURES.

-REMOVE CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY TRAFFIC CONTROL MEASURES. ON 31ST STREET, CLOSE EASTBOUND LANE AND SHIFT TRAFFIC TO THE PROPOSED PAVEMENT INSTALLED IN THE PREVIOUS STAGE. ON GOLFVIEW AVENUE, CLOSE SOUTHBOUND LANES AND SHIFT TRAFFIC TO EAST SIDE OF THE ROADWAY. IN NORTH PARKING LOT, OPEN PROPOSED PAVEMENT CONSTRUCTED IN PREVIOUS STAGE AND SHIFT TRAFFIC. CLOSE WESTERN KIOSK FOR USE AS EXIT LANE. CLOSE SOUTHERN PARKING LOT DRIVE.

-ADJUST TEMPORARY TRAFFIC SIGNALS TO NEW TRAFFIC PATTERN.

-SAWCUT THE TEMPORARY EDGE OF PAVEMENT. REMOVE EXISTING PAVEMENT, TREES, AND OTHER ITEMS WITHIN THE WORK ZONE.

-CONSTRUCT STORM SEWER IN NORTH PARKING LOT. CONSTRUCT PROPOSED PAVEMENT BINDER COURSE TO THE LIMITS SHOWN.

STAGE III

-INSTALL EROSION CONTROL MEASURES.

-REMOVE CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY TRAFFIC CONTROL MEASURES. ON 31ST STREET, CLOSE WESTBOUND LANE AND SHIFT TRAFFIC TO THE PROPOSED PAVEMENT INSTALLED IN THE PREVIOUS STAGE. IN NORTHERN PARKING LOT, SHIFT EXIT TRAFFIC TO THE PROPOSED PAVEMENT CONSTRUCTED IN THE PREVIOUS STAGE. INSTALL KIOSKS IN NEW LOCATION TO THE NORTH AND PLACE INTO SERVICE PRIOR TO CLOSING SOUTHERN KIOSK LOCATIONS.

-ADJUST TEMPORARY TRAFFIC SIGNALS TO NEW TRAFFIC PATTERN.

-SAWCUT THE TEMPORARY EDGE OF PAVEMENT. REMOVE EXISTING PAVEMENT, TREES, AND OTHER ITEMS WITHIN THE WORK ZONE.

-CONSTRUCT STORM SEWER ON 31ST STREET AND IN NORTH PARKING LOT. CONSTRUCT PROPOSED PAVEMENT BINDER COURSE TO THE LIMITS SHOWN.

STAGE IV

-INSTALL EROSION CONTROL MEASURES.

-REMOVE CONFLICTING PAVEMENT MARKINGS AND INSTALL TEMPORARY TRAFFIC CONTROL MEASURES. ON 31ST STREET, USE DAILY LANE CLOSURES TO INSTALL PERMANENT PAVEMENT MARKINGS. ON GOLFVIEW AVENUE, CLOSE SOUTHBOUND RIGHT TURN LANE. IN NORTH PARKING LOT, SHIFT ENTRANCE TRAFFIC TO THE PROPOSED PAVEMENT CONSTRUCTED IN THE PREVIOUS STAGE. INSTALL PERMANENT PAVEMENT MARKINGS IN THE PARKING LOT AND EXIT LANES, AS SHOWN.

-REMOVE EXISTING PAVEMENT, TREES, AND OTHER ITEMS WITHIN THE WORK ZONE.

-CONSTRUCT PROPOSED PAVEMENT TO THE LIMITS SHOWN.

STAGE V

-INSTALL EROSION CONTROL MEASURES.

-INSTALL DETOUR TEMPORARY TRAFFIC CONTROL MEASURES. ON GOLFVIEW AVENUE, CLOSE NORTHBOUND AND SOUTHBOUND LANES NORTH OF THE NORTH PARKING LOT ENTRANCE.

-REMOVE EXISTING PAVEMENT, TREES, AND OTHER ITEMS WITHIN THE WORK ZONE.

-CONSTRUCT PROPOSED PAVEMENT TO THE LIMITS SHOWN.

-INSTALL REMAINDER OF PERMANENT PAVEMENT MARKINGS.

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		DRAWN - KWH	REVISED -			3784	12-F3000-23-PK	COOK	131	37
	PLOT SCALE = 50.0000 ′ / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63764		
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		SCALE: 1″ = 50′ SHEET NO. 2 OF 12 SHEETS STA. 207+06.00 TO STA. 216+00.00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

TYPE I OR II BARRICADE WITH FLASHING LIGHT

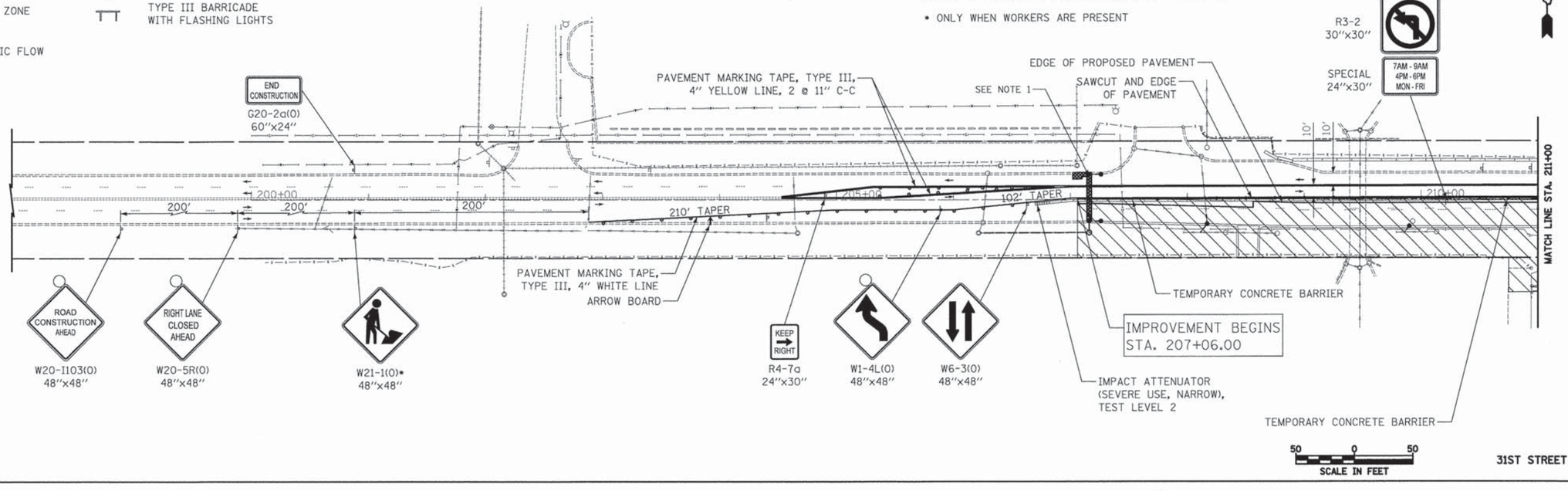
VERTICAL PANEL

TYPE III BARRICADE WITH FLASHING LIGHTS

NOTE 1

-USE DAILY LANE CLOSURES IN ACCORDANCE WITH STANDARD 701606 TO INSTALL STORM SEWER PIPE CROSSING AND STRUCTURES, THIS LOCATION ONLY, PRIOR TO COMMENCEMENT OF CONSTRUCTION OF REMAINING ITEMS IN STAGE I.
25 SQ YD PAVEMENT PATCHING, CLASS D, TYPE IV, 10"

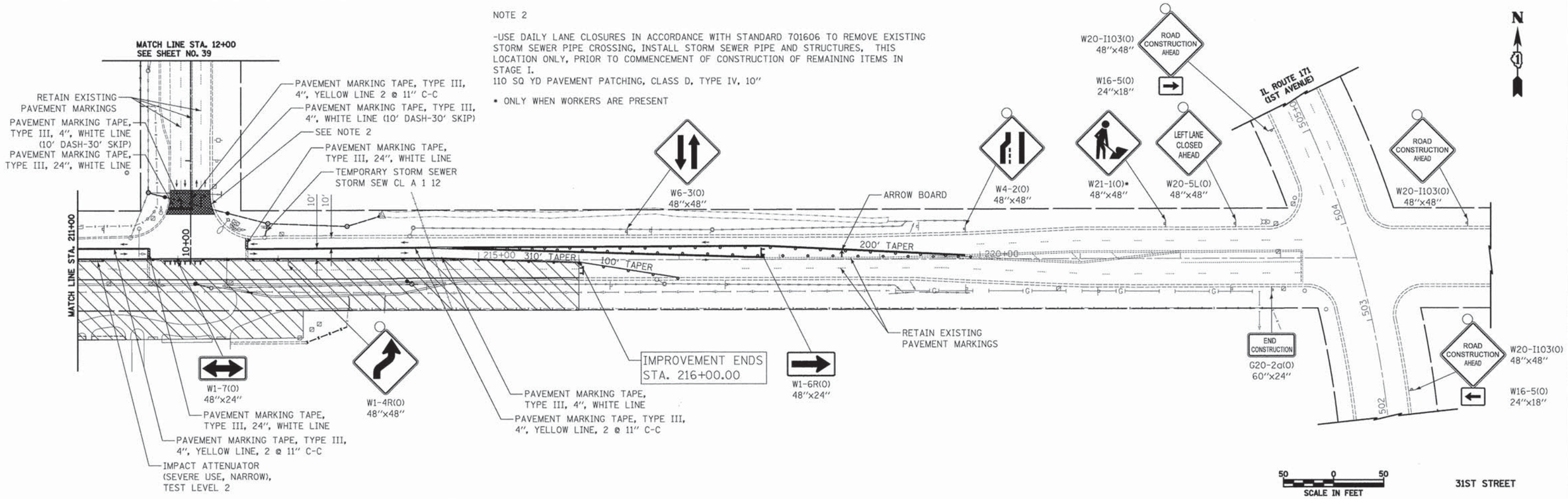
* ONLY WHEN WORKERS ARE PRESENT



NOTE 2

-USE DAILY LANE CLOSURES IN ACCORDANCE WITH STANDARD 701606 TO REMOVE EXISTING STORM SEWER PIPE CROSSING, INSTALL STORM SEWER PIPE AND STRUCTURES, THIS LOCATION ONLY, PRIOR TO COMMENCEMENT OF CONSTRUCTION OF REMAINING ITEMS IN STAGE I.
110 SQ YD PAVEMENT PATCHING, CLASS D, TYPE IV, 10"

* ONLY WHEN WORKERS ARE PRESENT



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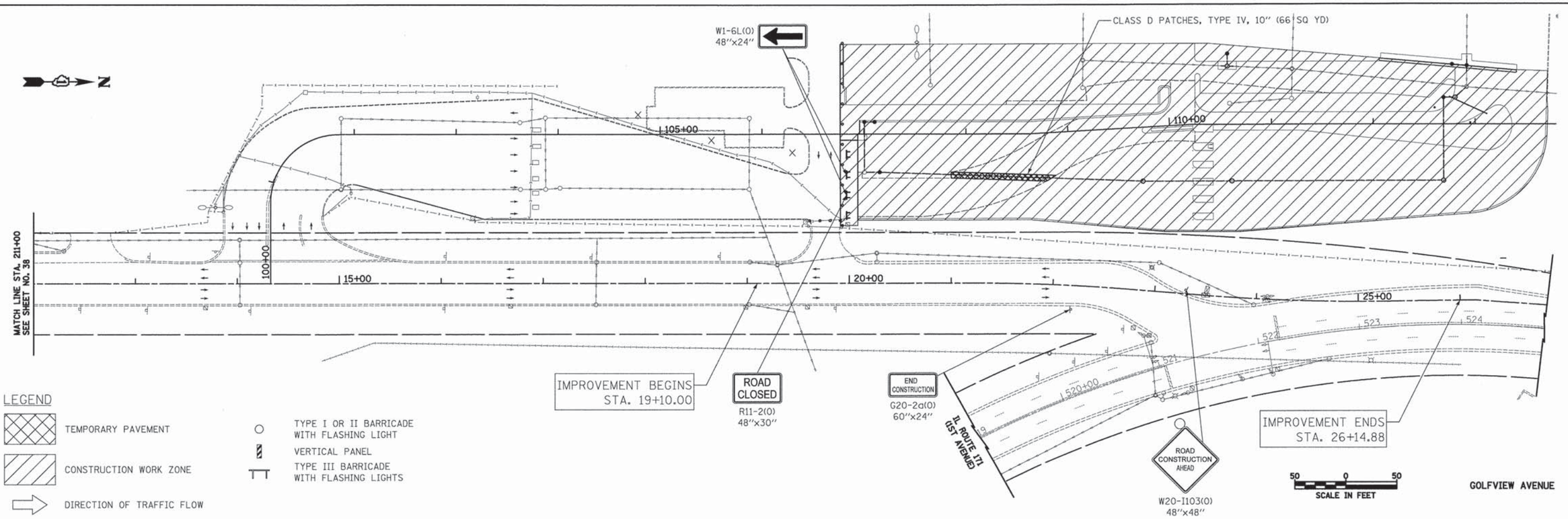
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE I

SCALE: 1" = 50' | SHEET NO. 3 OF 12 SHEETS | STA. 207+06.00 | TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	38
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE I

SCALE: 1" = 50' | SHEET NO. 4 OF 12 SHEETS | STA. 12+00.00 TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	39
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

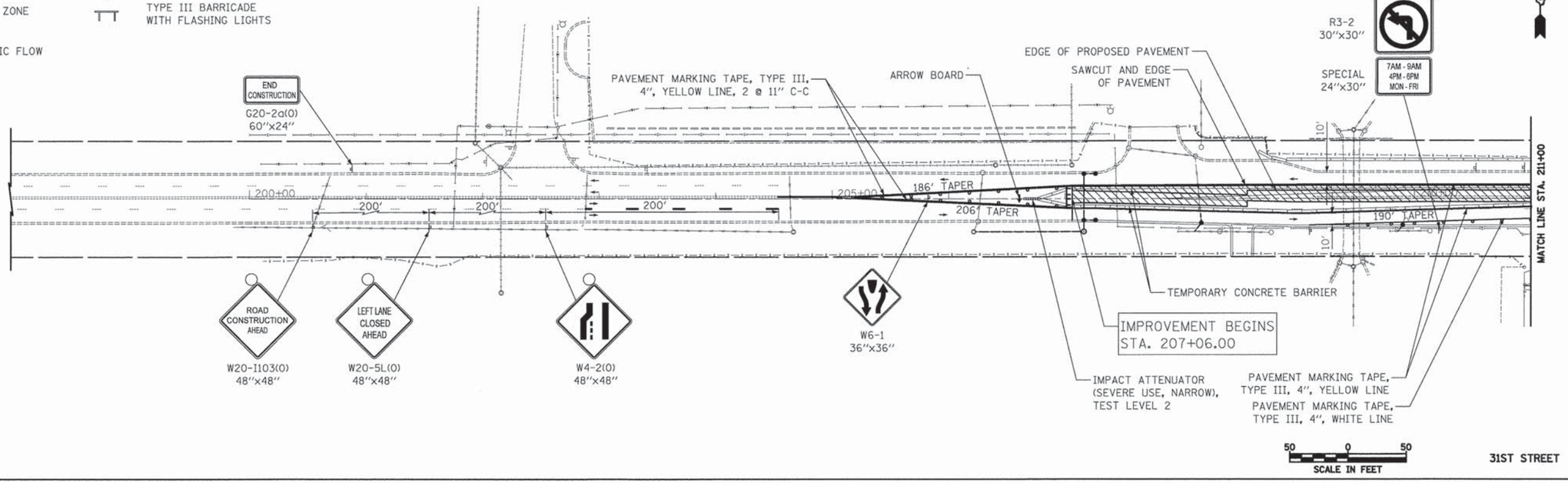
CONSTRUCTION WORK ZONE

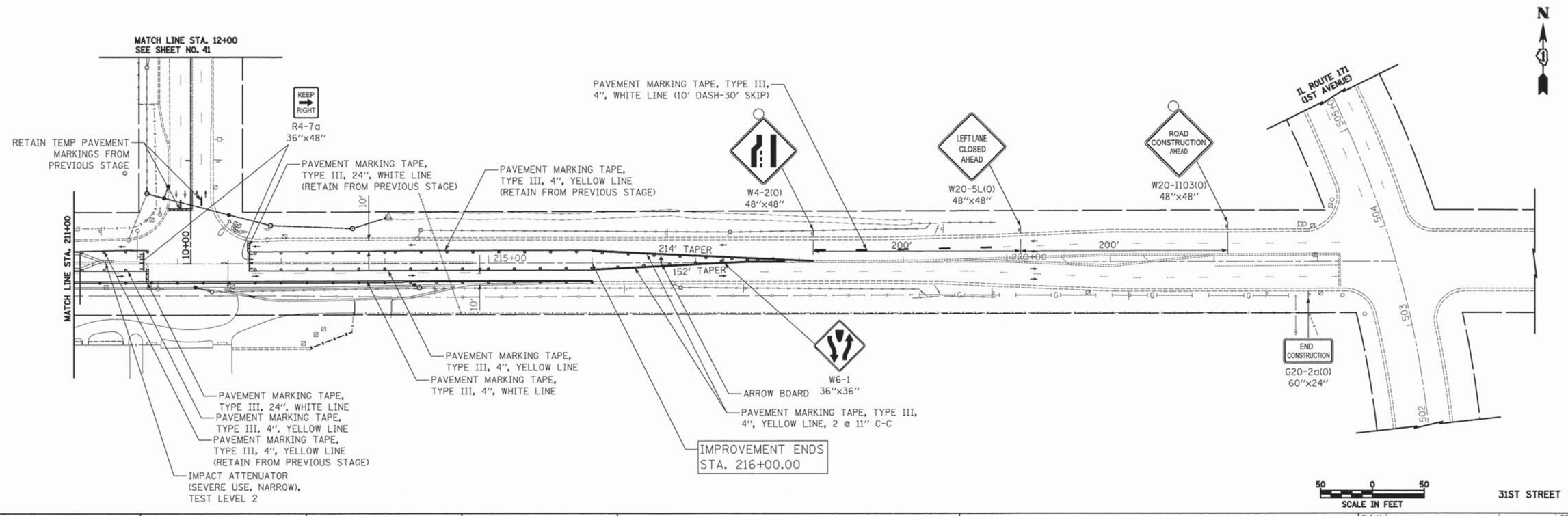
DIRECTION OF TRAFFIC FLOW

TYPE I OR II BARRICADE WITH FLASHING LIGHT

VERTICAL PANEL

TYPE III BARRICADE WITH FLASHING LIGHTS





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	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE II

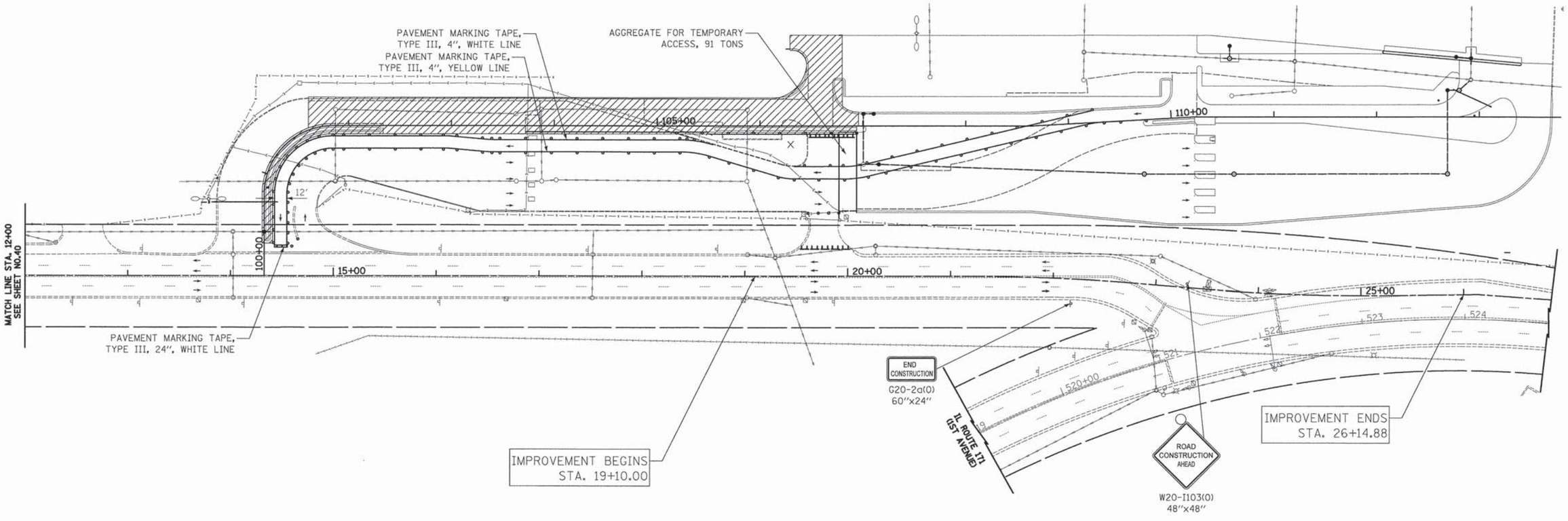
SCALE: 1" = 50' | SHEET NO. 5 OF 12 SHEETS | STA. 207+06.00 | TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	40
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TYPE I OR II BARRICADE WITH FLASHING LIGHT
- VERTICAL PANEL
- TYPE III BARRICADE WITH FLASHING LIGHTS

N



50 0 50
SCALE IN FEET

GOLFVIEW AVENUE

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE II

SCALE: 1" = 50' | SHEET NO. 6 OF 12 SHEETS | STA. 12+00.00 TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	41
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

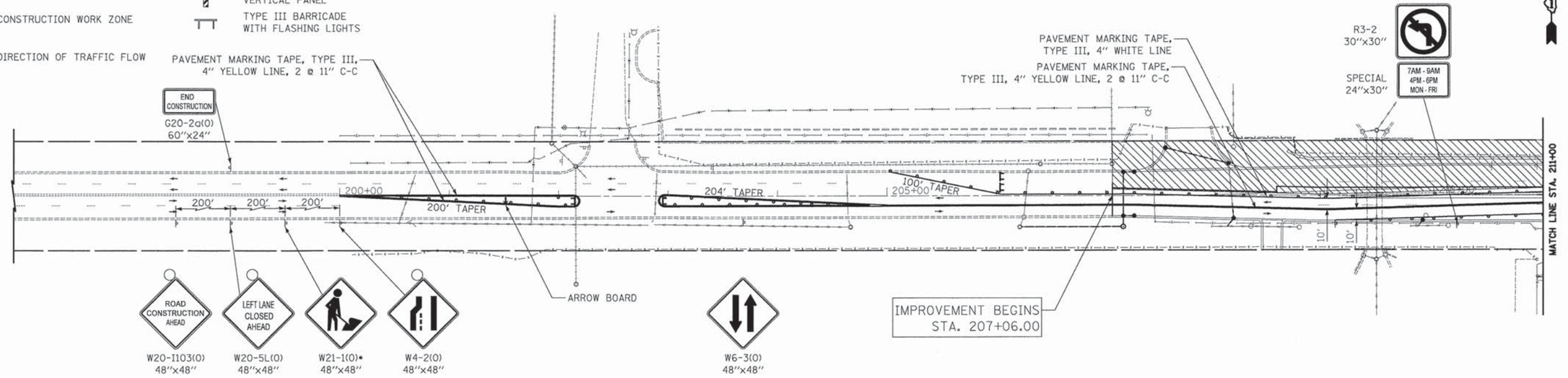
CONSTRUCTION WORK ZONE

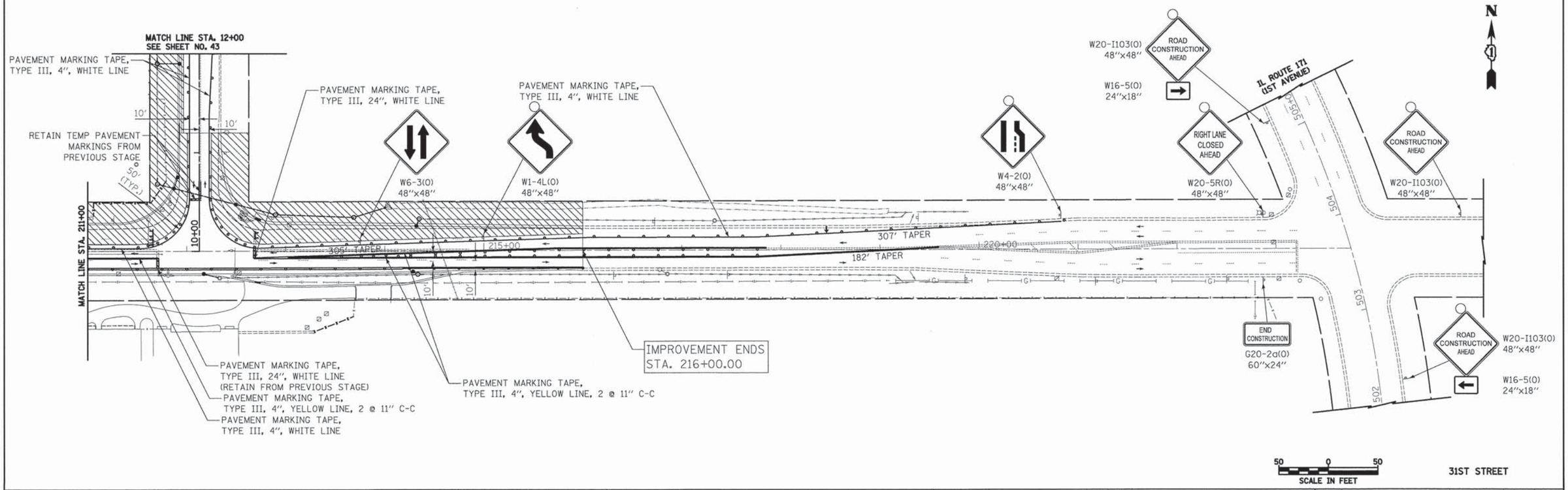
DIRECTION OF TRAFFIC FLOW

TYPE I OR II BARRICADE WITH FLASHING LIGHT

VERTICAL PANEL

TYPE III BARRICADE WITH FLASHING LIGHTS





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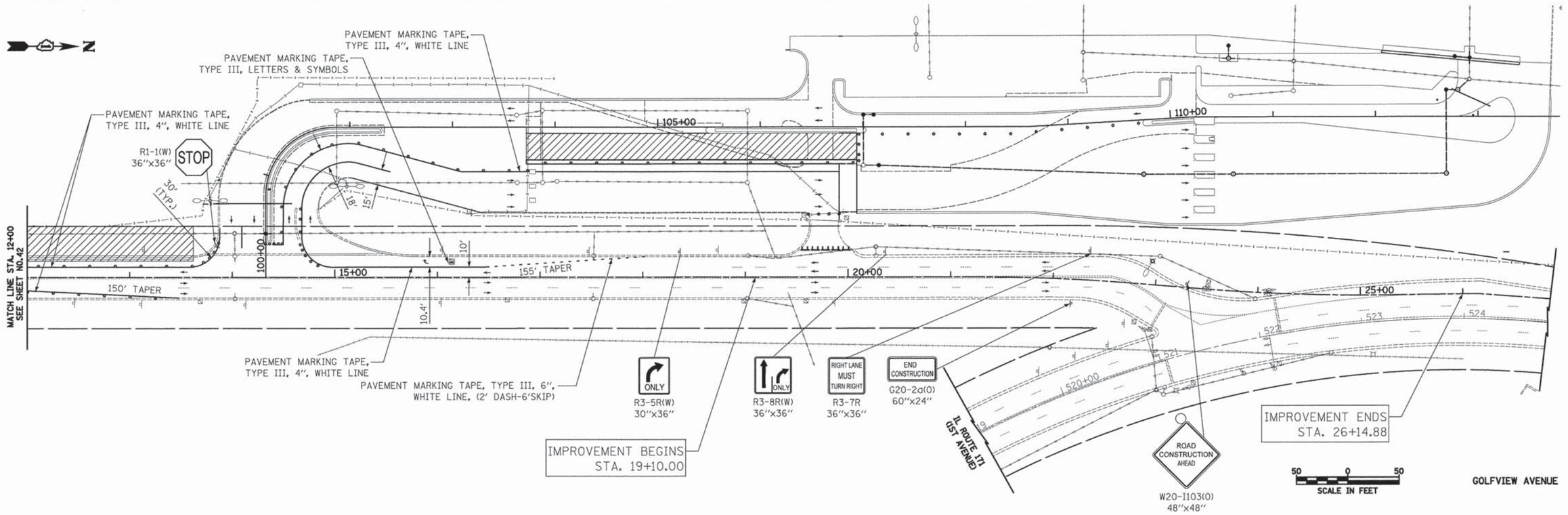
		DRAWN - KWH	REVISED -			3784	12-F3000-23-PK	COOK	131	42
	PLOT SCALE = 50.0000 '/ in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63764		
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -		SCALE: 1" = 50' SHEET NO. 7 OF 12 SHEETS STA. 207+06.00 TO STA. 216+00.00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TYPE I OR II BARRICADE WITH FLASHING LIGHT
- VERTICAL PANEL
- TYPE III BARRICADE WITH FLASHING LIGHTS

FILE NAME = ...\sheet\06-MOT\2563_MOT_06.dgn	USER NAME = dte	DESIGNED - KWH	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE III

SCALE: 1" = 50' | SHEET NO. 8 OF 12 SHEETS | STA. 12+00.00 TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	43
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

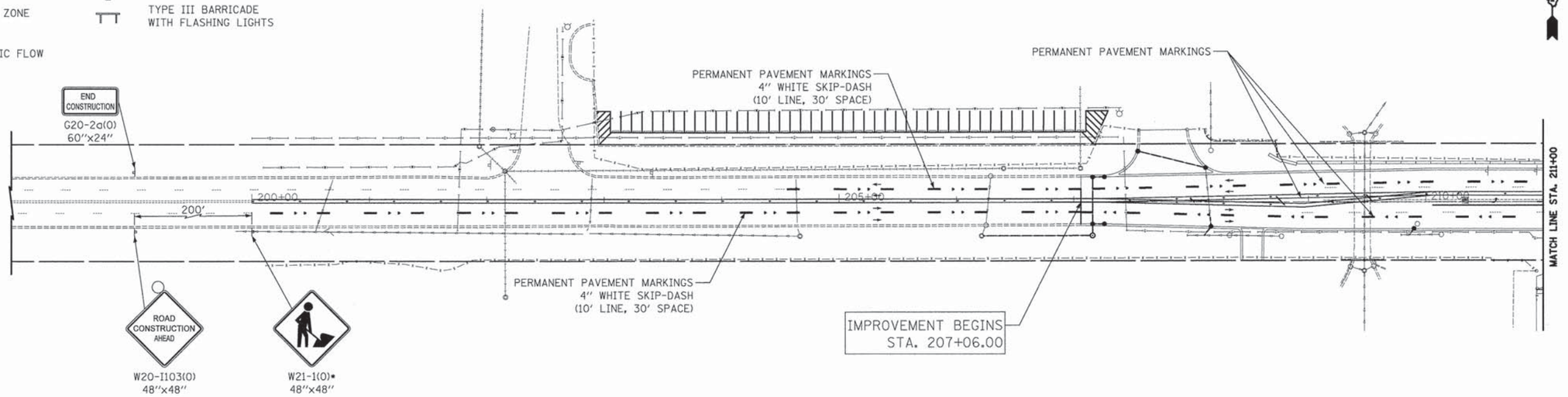
CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

TYPE I OR II BARRICADE WITH FLASHING LIGHT

VERTICAL PANEL

TYPE III BARRICADE WITH FLASHING LIGHTS

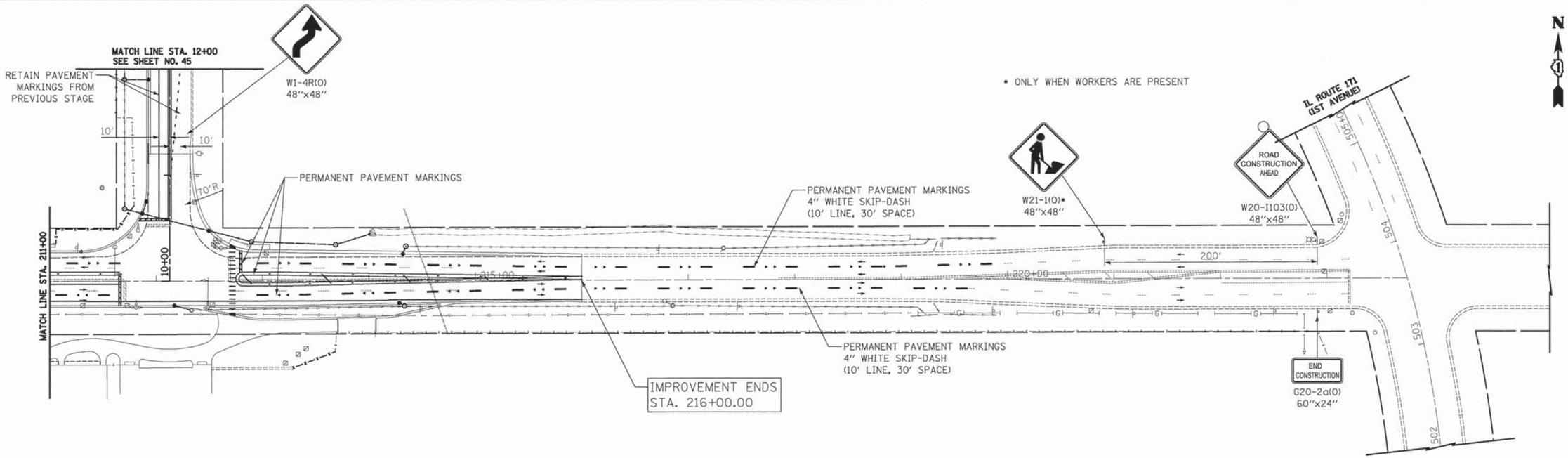


* ONLY WHEN WORKERS ARE PRESENT

N

50 0 50
SCALE IN FEET

31ST STREET



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SCALE IN FEET

31ST STREET

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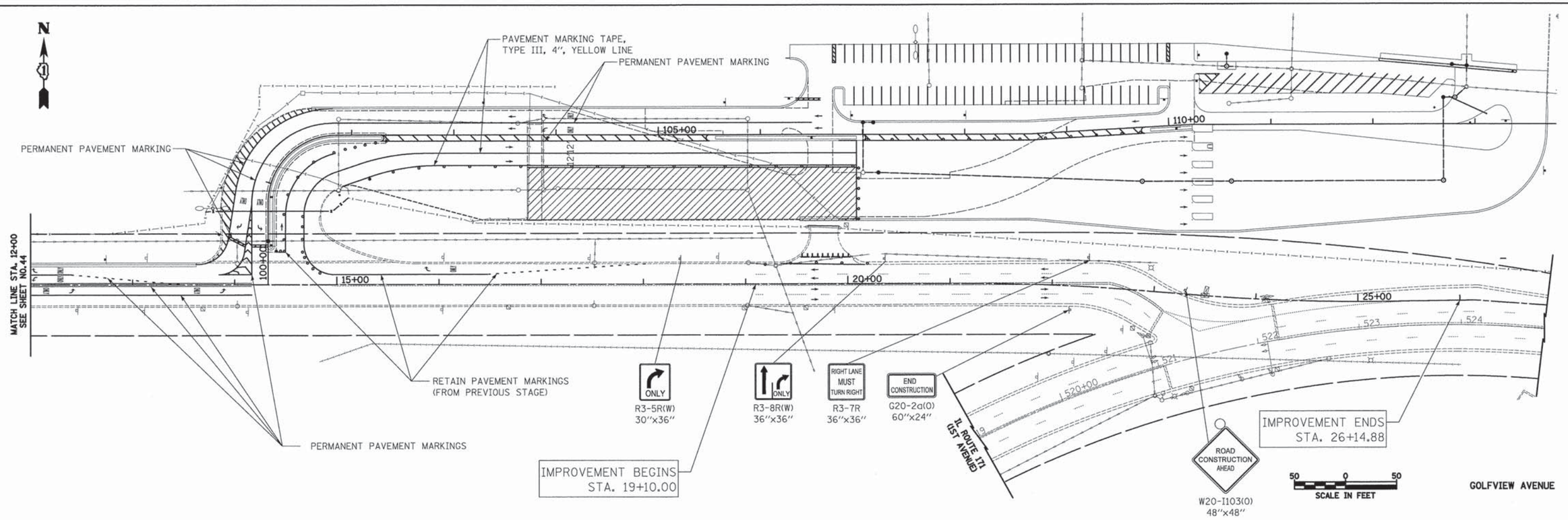
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE IV

SCALE: 1" = 50' | SHEET NO. 9 OF 12 SHEETS | STA. 207+06.00 | TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	44
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TYPE I OR II BARRICADE WITH FLASHING LIGHT
- VERTICAL PANEL
- TYPE III BARRICADE WITH FLASHING LIGHTS

FILE NAME = ...\sheet\06-MOT\2563_MOT_08.dgn	USER NAME = dtw	DESIGNED - KWH	REVISED -
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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE IV

SCALE: 1" = 50' | SHEET NO. 10 OF 12 SHEETS | STA. 12+00.00 TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	45
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

TEMPORARY PAVEMENT

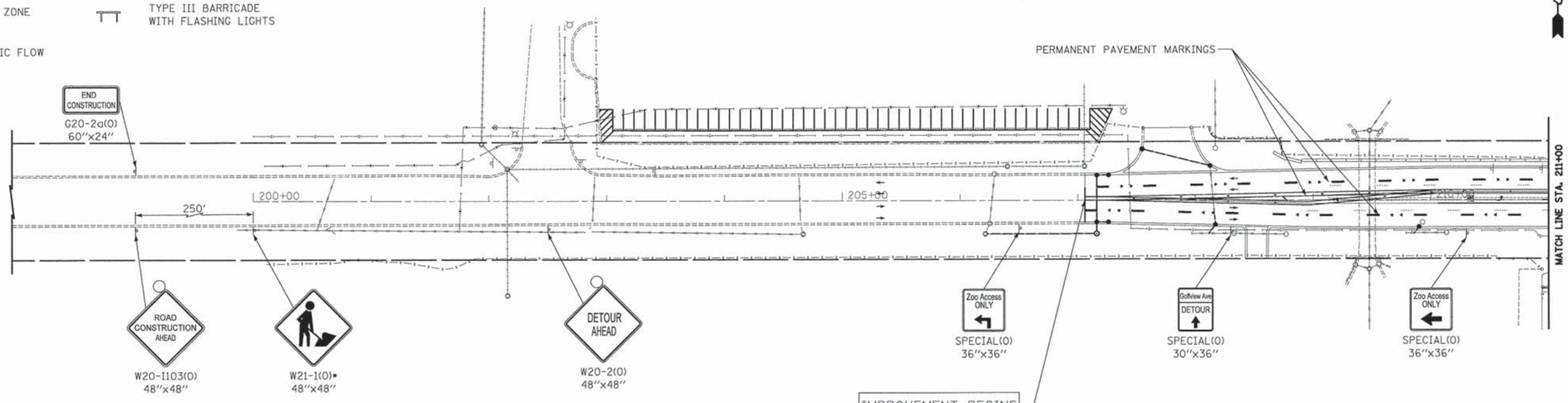
CONSTRUCTION WORK ZONE

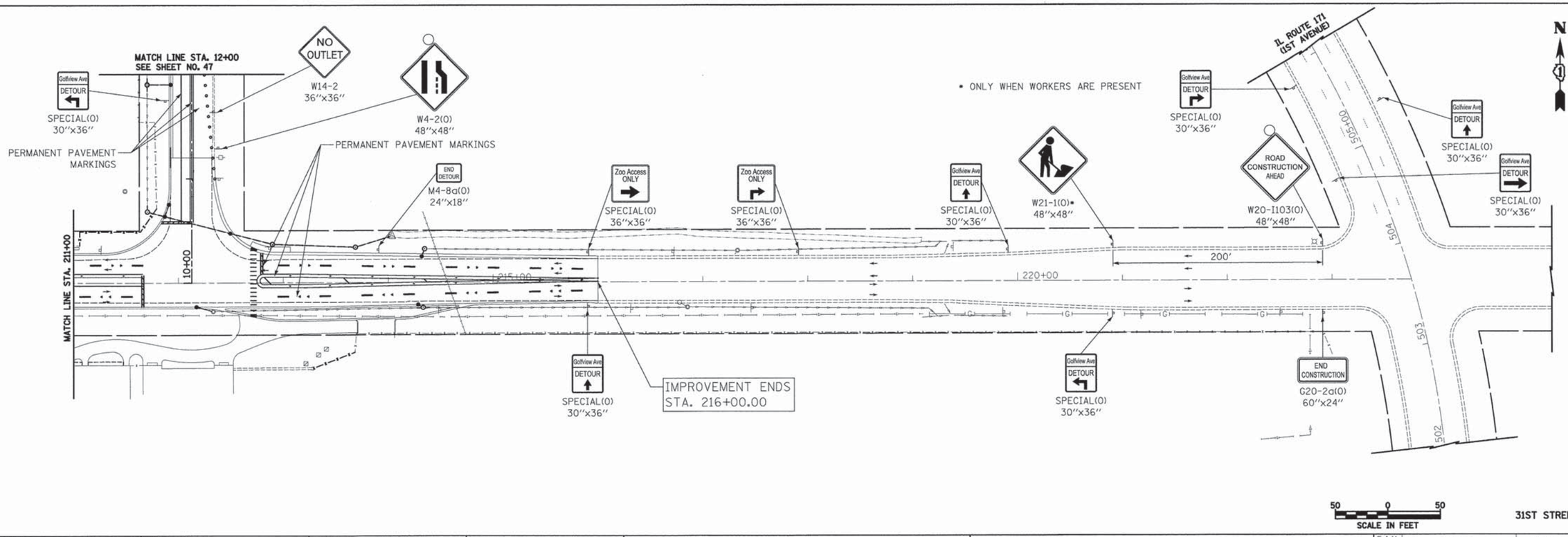
DIRECTION OF TRAFFIC FLOW

TYPE I OR II BARRICADE WITH FLASHING LIGHT

VERTICAL PANEL

TYPE III BARRICADE WITH FLASHING LIGHTS





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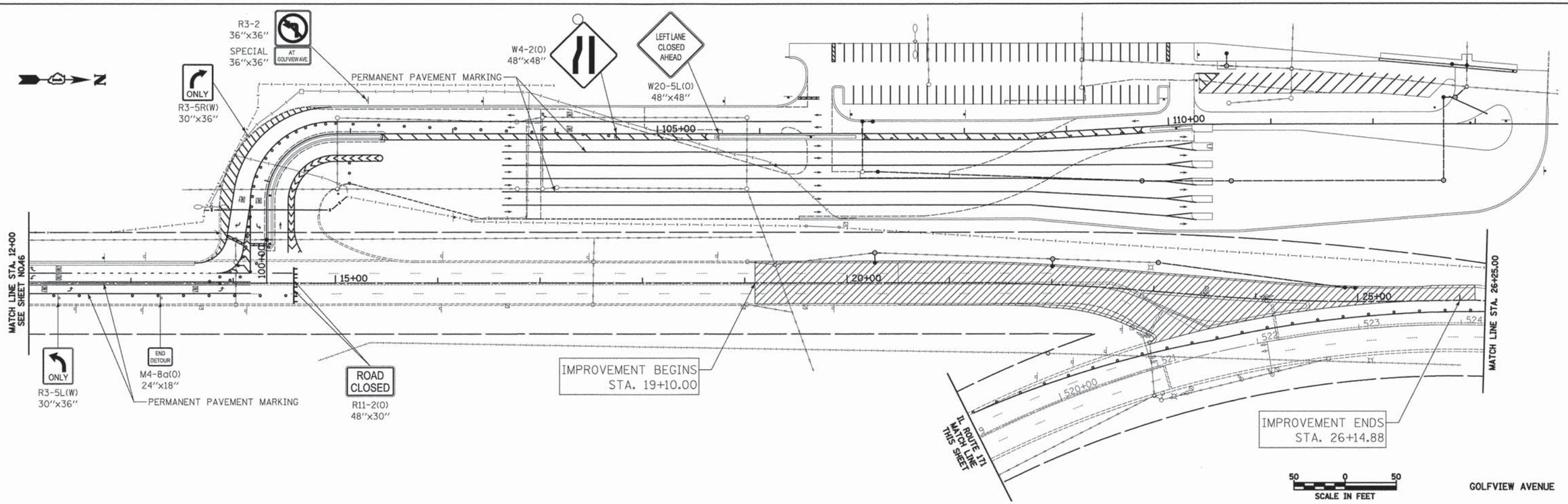
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

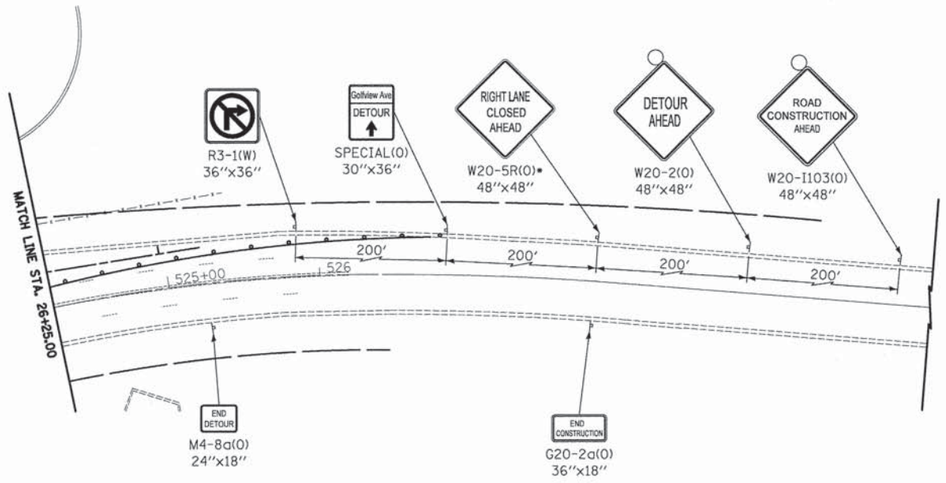
MAINTENANCE OF TRAFFIC – STAGE V

SCALE: 1" = 50' | SHEET NO. 11 OF 12 SHEETS | STA. 207+06.00 TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	46
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



•RIGHT LANE TO BE CLOSED DURING EXCAVATION FOR RECONSTRUTION OF RIGHT TURN LANE ONLY, WHEN EXCAVATION DEPTHS EXCEED 18 INCHES. OTHERWISE, STANDARD 701101 AND 701606 SHALL BE UTILIZED.

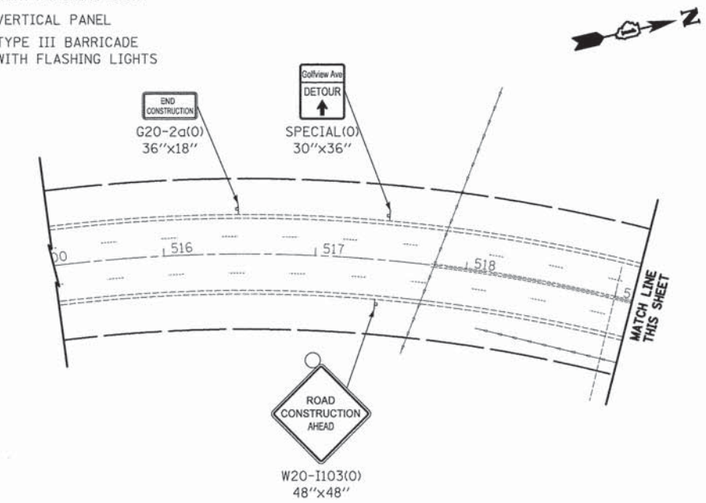


50 0 50
SCALE IN FEET

ILLINOIS ROUTE 171

LEGEND

- TEMPORARY PAVEMENT
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TYPE I OR II BARRICADE WITH FLASHING LIGHT
- VERTICAL PANEL
- TYPE III BARRICADE WITH FLASHING LIGHTS



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SCALE IN FEET

ILLINOIS ROUTE 171 (FIRST AVENUE)

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		DRAWN - KWH	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE V

SCALE: 1" = 50' | SHEET NO. 12 OF 12 SHEETS | STA. 12+00.00 TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	47
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

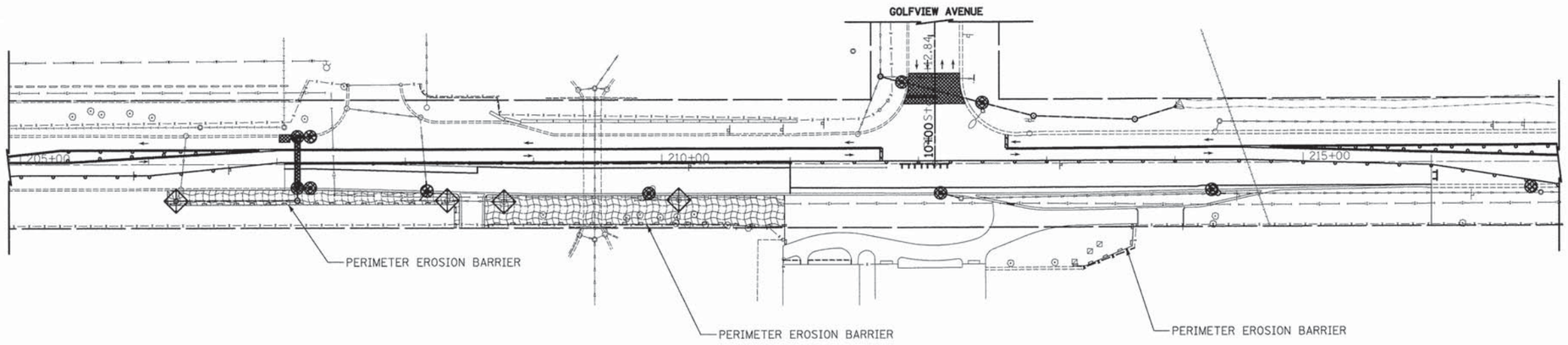
PAVEMENT PATCHING

EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

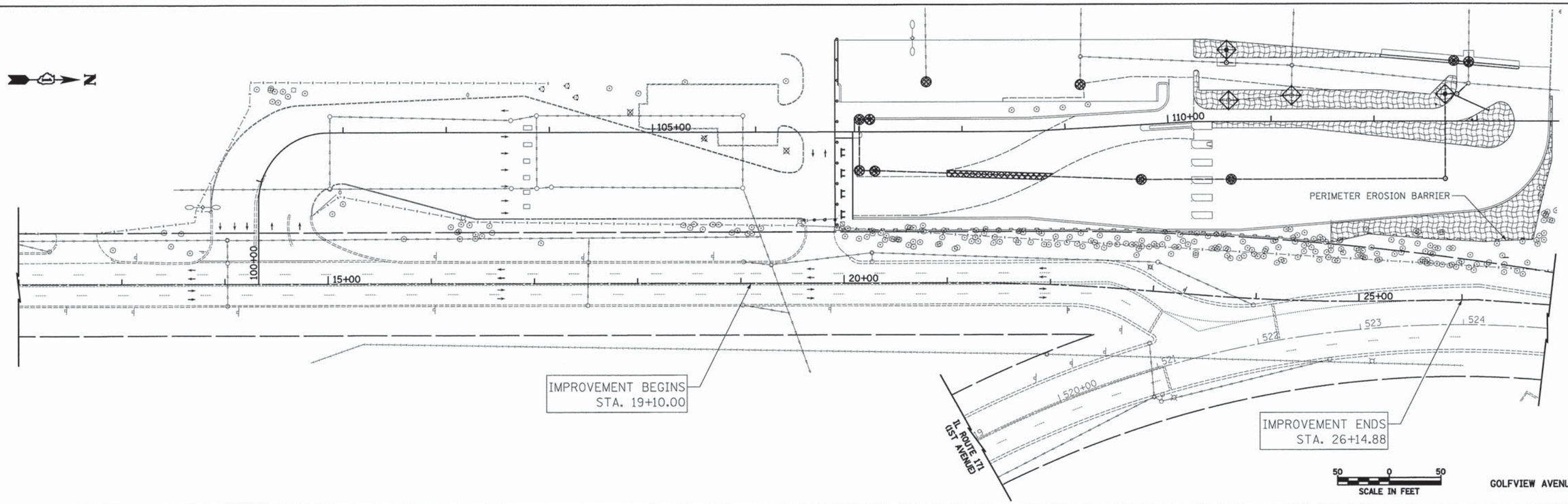
INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05

INLET FILTERS

N



31ST STREET



GOLFVIEW AVENUE

FILE NAME = ...\2563_ER0_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE I

SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	48
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

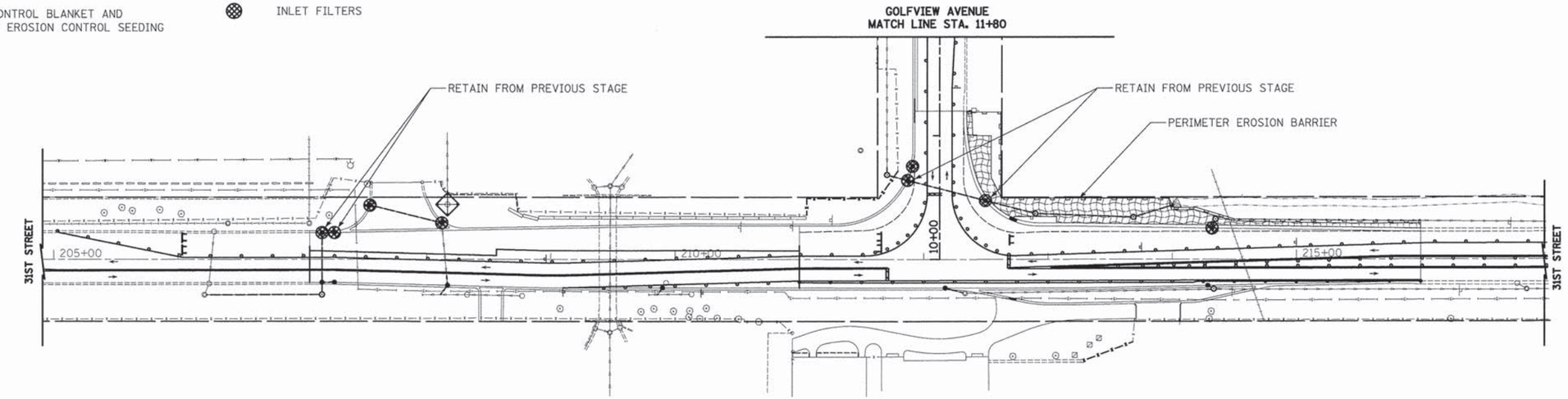
LEGEND

PAVEMENT PATCHING

EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

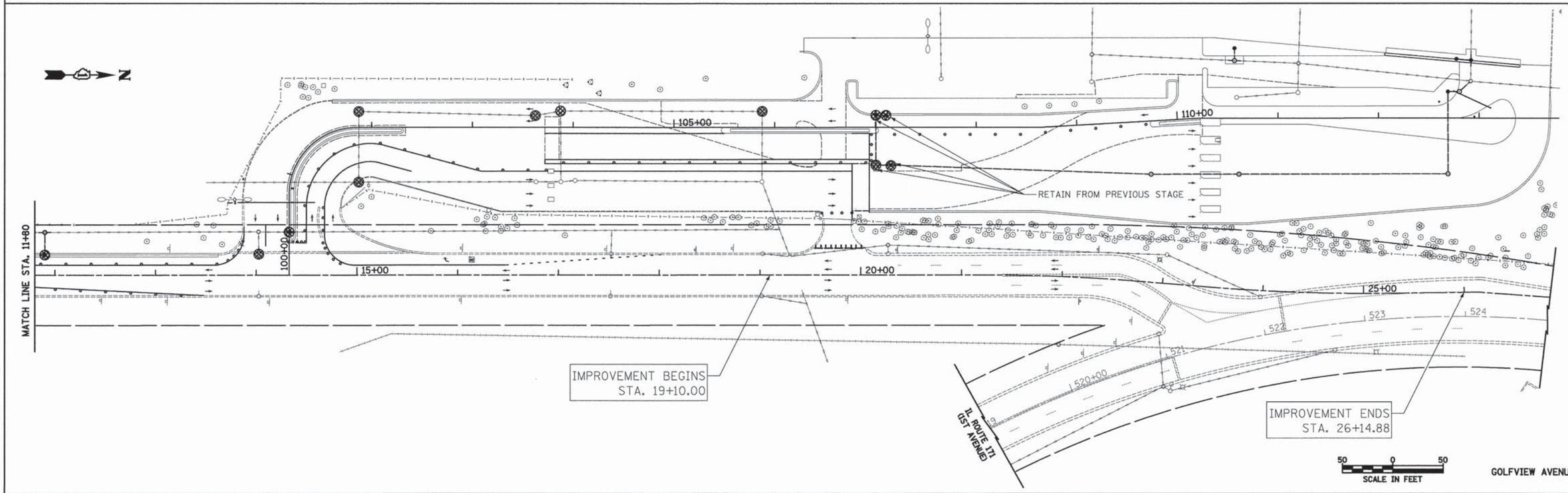
INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05

INLET FILTERS



N

31ST STREET



FILE NAME = ...\2563_ERO_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE II & III

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	49
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

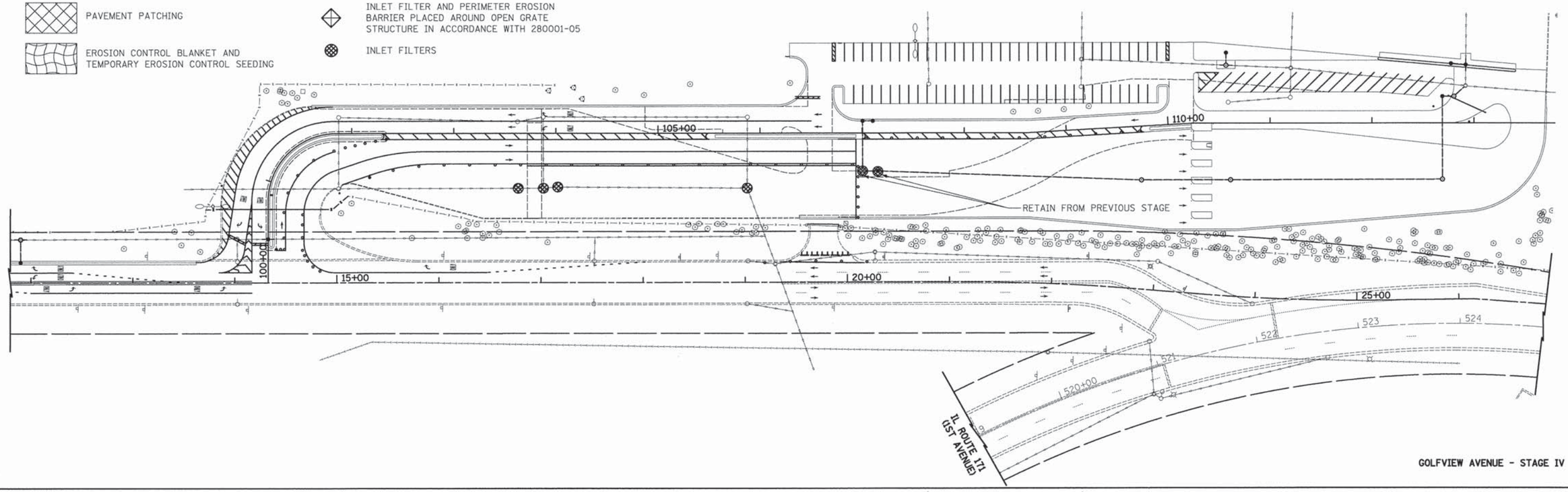
LEGEND

PAVEMENT PATCHING

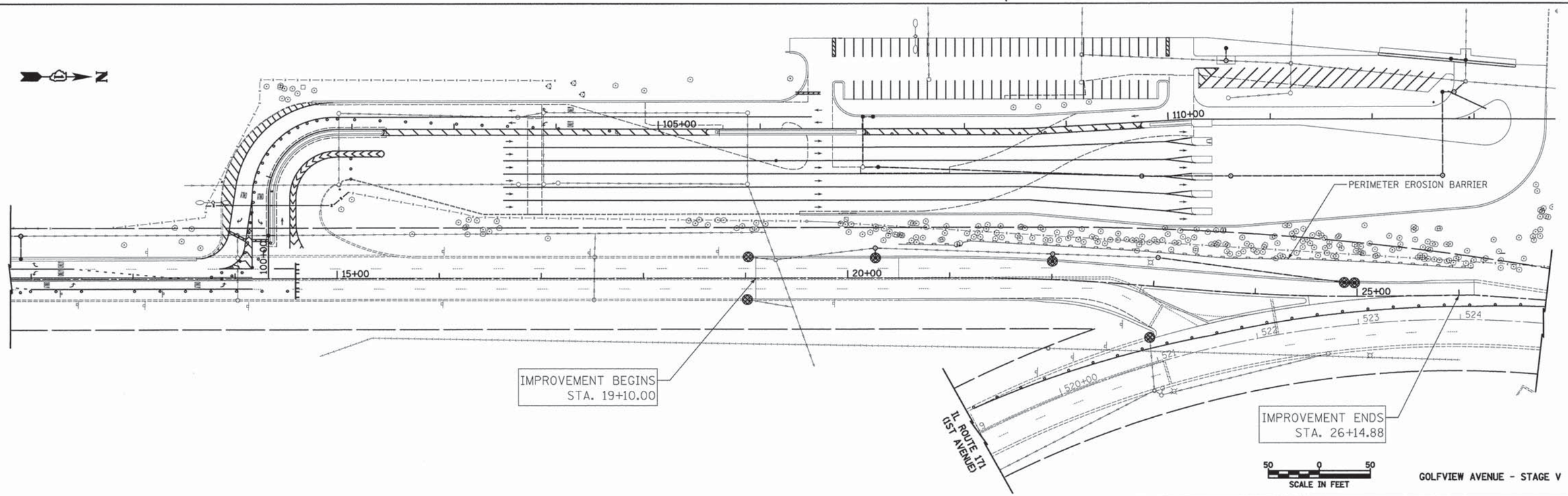
EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING

INLET FILTER AND PERIMETER EROSION BARRIER PLACED AROUND OPEN GRATE STRUCTURE IN ACCORDANCE WITH 280001-05

INLET FILTERS



GOLFVIEW AVENUE - STAGE IV



GOLFVIEW AVENUE - STAGE V

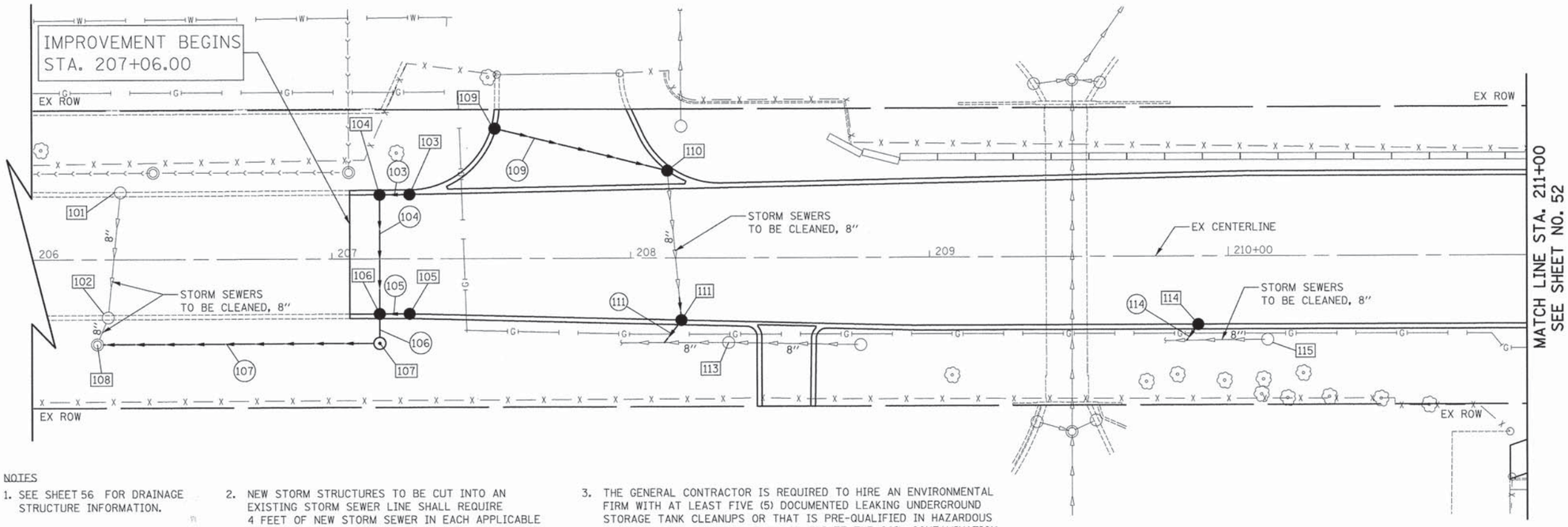
FILE NAME = ...\2563_ERO_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL – STAGE IV & V

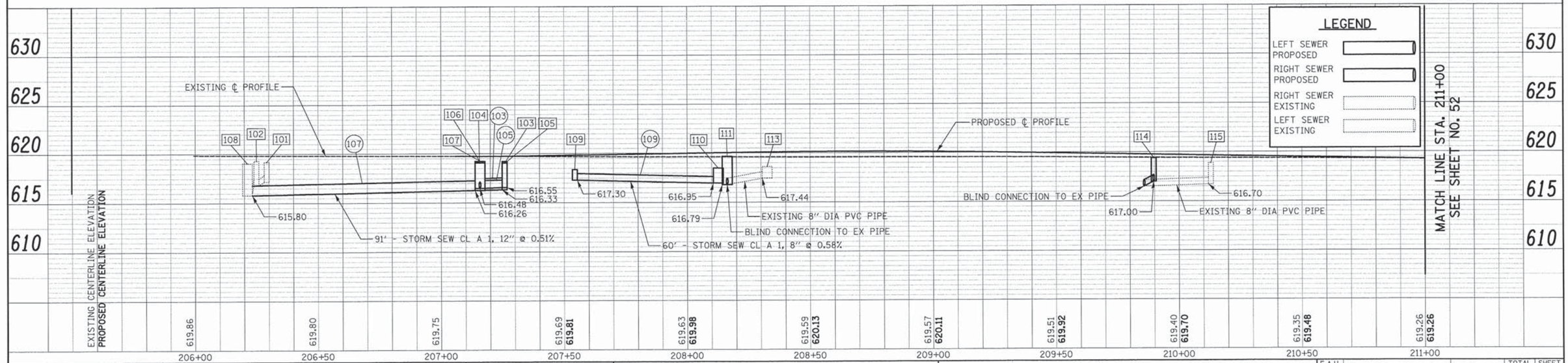
SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. 11+80.00 | TO STA. 26+14.88

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	50
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES

1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
2. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.
3. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



FILE NAME = ...\2563_D&U_01.dgn	USER NAME = dte	DESIGNED - JES	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITIES
		DRAWN - JES	REVISED - ___		
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED - ___		SCALE: 1" = 20' | SHEET NO. 1 OF 6 SHEETS | STA. 206+00 TO STA. 211+00
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED - ___		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	51
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED ___ PLOTTED ___ ALIGNMENT CHECKED ___ GRADES CHECKED ___ BM. NOTED ___ CADD FILE NAME ___ NOTE BOOK ___ NO. ___ BY ___ DATE ___

PROFILE — SURVEYED ___ PLOTTED ___ GRADES CHECKED ___ BM. NOTED ___ STRUCTURE NO(S)&TYPE CHK'D ___ NOTE BOOK ___ NO. ___ BY ___ DATE ___

GOLFVIEW AVENUE
MATCH LINE STA. 11+25
SEE SHEET NO. 53

MATCH LINE STA. 211+00
SEE SHEET NO. 51

STORM SEWERS TO BE CLEANED 24"

IMPROVEMENT ENDS
STA. 216+00.00

STONE RIPRAP, CLASS A4

PR CENTERLINE

EX CENTERLINE

EX ROW

12"

24"

11

10+00

211 | 212 | 213 | 214 | 215+00 | 216

116A 117 116 118 119 120 121 122 123 124 125 126 127

NOTES

1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
2. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.
3. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

31ST STREET

PLAN: SURVEYED, PLOTTED, DRAWING CHECKED, AT R.O.W. CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, DRAWING CHECKED, AT R.O.W. CHECKED, STRUCTURE NO'S/ENG CHKD, NOTE BOOK, NO., BY, DATE

EXISTING CENTERLINE ELEVATION
PROPOSED PGL ELEVATION

630 625 620 615 610

EXISTING ℄ PROFILE

615.10 615.04 614.80 614.66 614.66 614.39 614.39 615.35 614.27 614.81 615.09

12' - STORM SEW CL A 1, 15" @ 0.50%
10' - STORM SEW CL A 1, 12" @ 1.60%
65' - STORM SEW CL A 1, 15" @ 0.37%
13' - STORM SEW CL A 1, 12" @ 1.08%
39' - STORM SEW CL A 1, 15" @ 0.36%
EXISTING 8" PVC PIPE
76' - STORM SEW CL A 1, 15" @ 0.36%
26' - STORM SEW CL A 1, 15" @ 0.38%
3' - STORM SEW CL A 1, 12" @ 2.33%
EXISTING 12" PVC PIPE

619.26 619.26 | 619.12 | 619.00 | 618.85 618.85 | 618.69 618.72 | 618.50 618.60 | 618.35 618.46 | 618.23 618.32 | 618.10 618.18 | 617.95 618.01 | 617.76 617.76

211+00 211+50 212+00 212+50 213+00 213+50 214+00 214+50 215+00 215+50 216+00

LEGEND
- LEFT SEWER PROPOSED
- RIGHT SEWER PROPOSED
- RIGHT SEWER EXISTING
- LEFT SEWER EXISTING

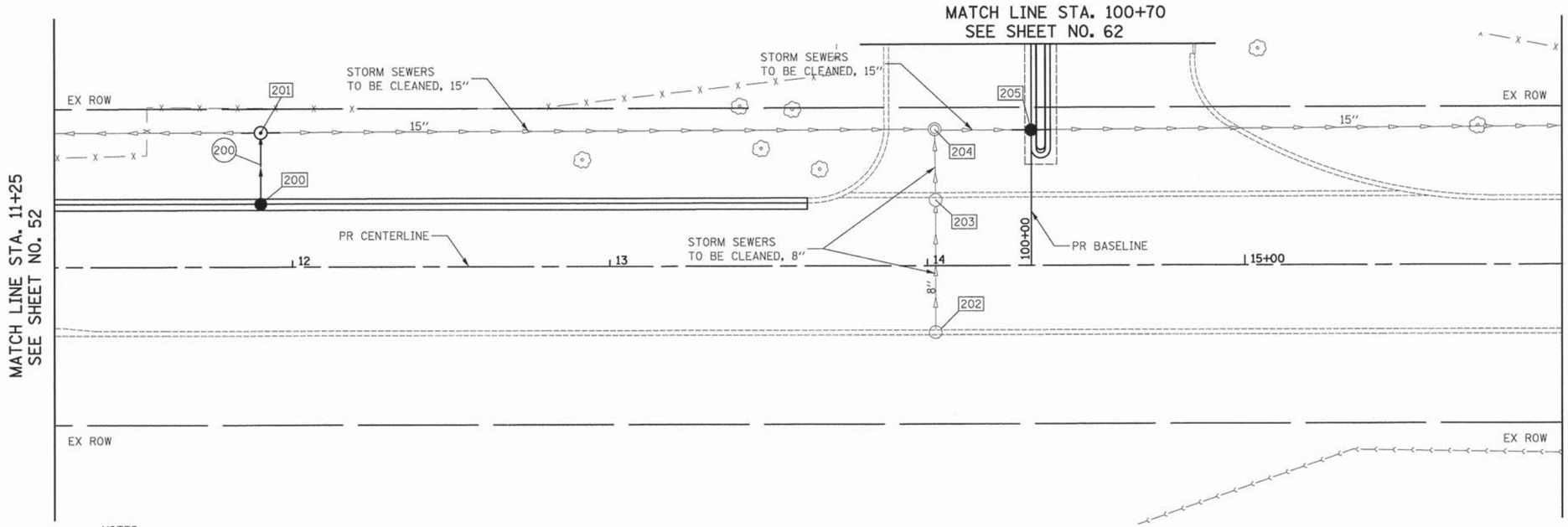
FILE NAME = ...\2563_D&U_02.dgn	USER NAME = dte	DESIGNED - JES	REVISED - ___
		DRAWN - JES	REVISED - ___
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED - ___
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES

SCALE: 1" = 20' | SHEET NO. 2 OF 6 SHEETS | STA. 211+00 TO STA. 216+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	52
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

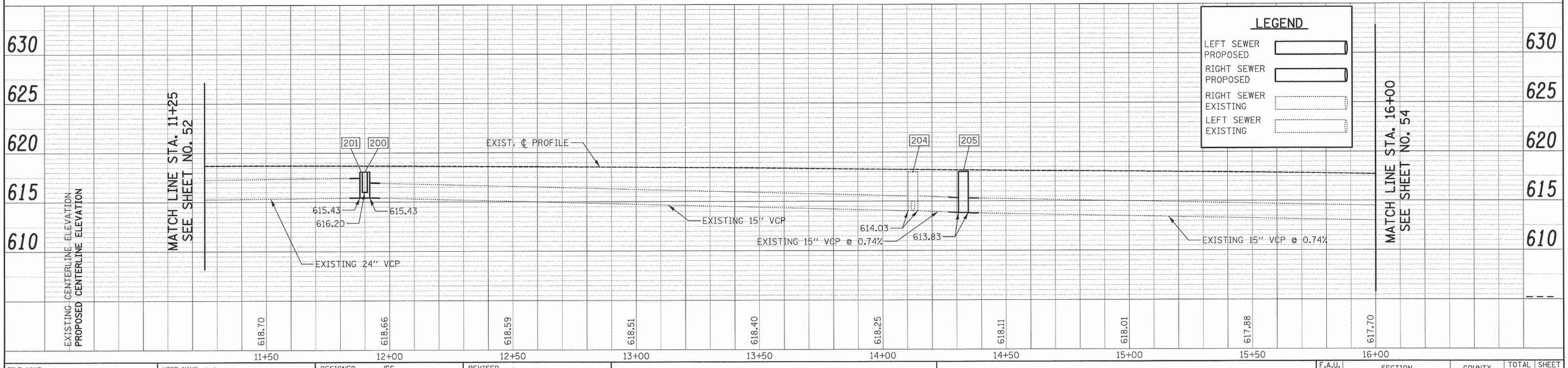


NOTES

1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
2. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.

GOLFVIEW AVENUE

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET



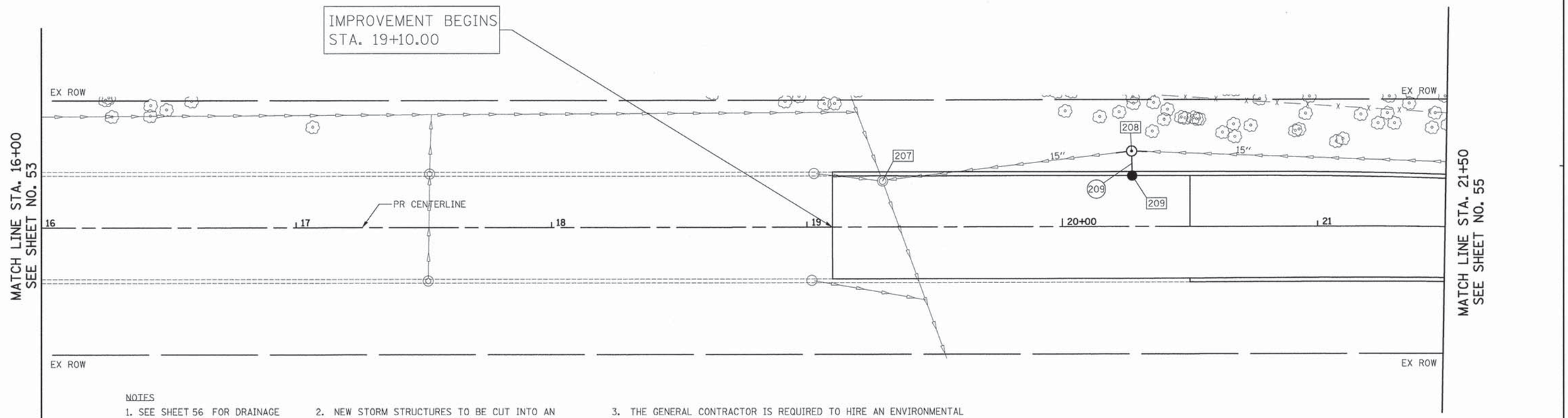
FILE NAME = ...\2563_D&U_03.dgn	USER NAME = dte	DESIGNED - JES	REVISED - ___
		DRAWN - JES	REVISED - ___
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED - ___
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES

SCALE: 1" = 20' | SHEET NO. 3 OF 6 SHEETS | STA. 11+25 TO STA. 16+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	53
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES

1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
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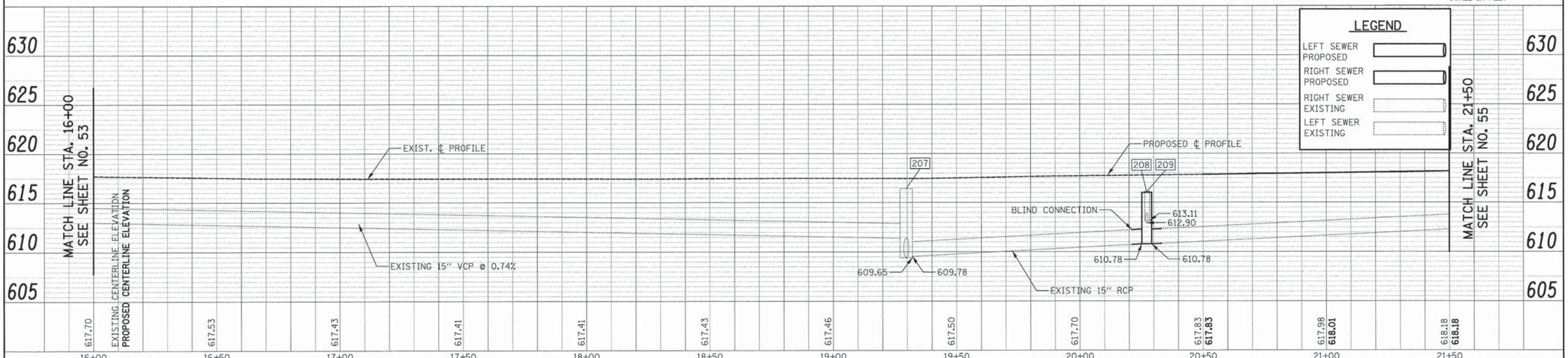
HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

GOLFVIEW AVENUE



LEGEND

- LEFT SEWER PROPOSED
- RIGHT SEWER PROPOSED
- RIGHT SEWER EXISTING
- LEFT SEWER EXISTING

FILE NAME = ...\2563_D&U_04.dgn	USER NAME = dte	DESIGNED - DTE	REVISED - ___
		DRAWN - DTE	REVISED - ___
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED - ___
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES

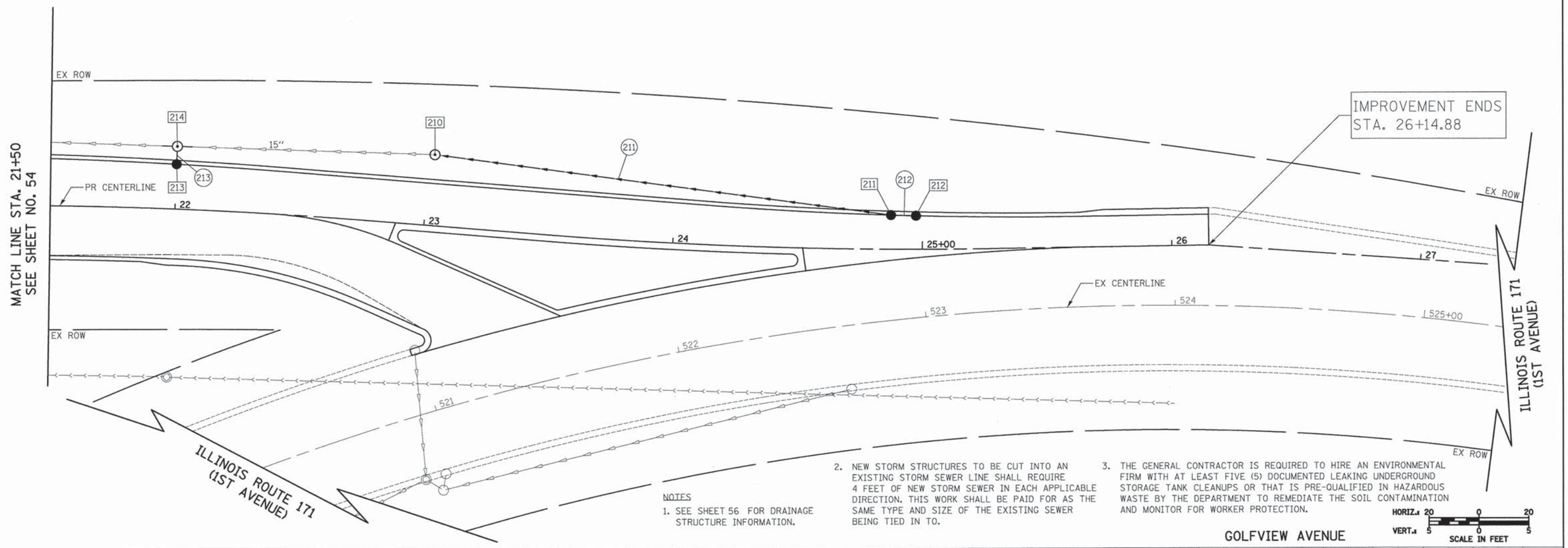
SCALE: 1" = 20' | SHEET NO. 4 OF 6 SHEETS | STA. 16+00 TO STA. 21+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	54
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, QUANTITIES CHECKED, STRUCTURE NO(S) CHK'D, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, QUANTITIES CHECKED, STRUCTURE NO(S) CHK'D, NOTE BOOK, NO., BY, DATE

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
GRADES CHECKED		
NOTE BOOK		
NO.		
CADD FILE NAME		



NOTES

1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
2. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.
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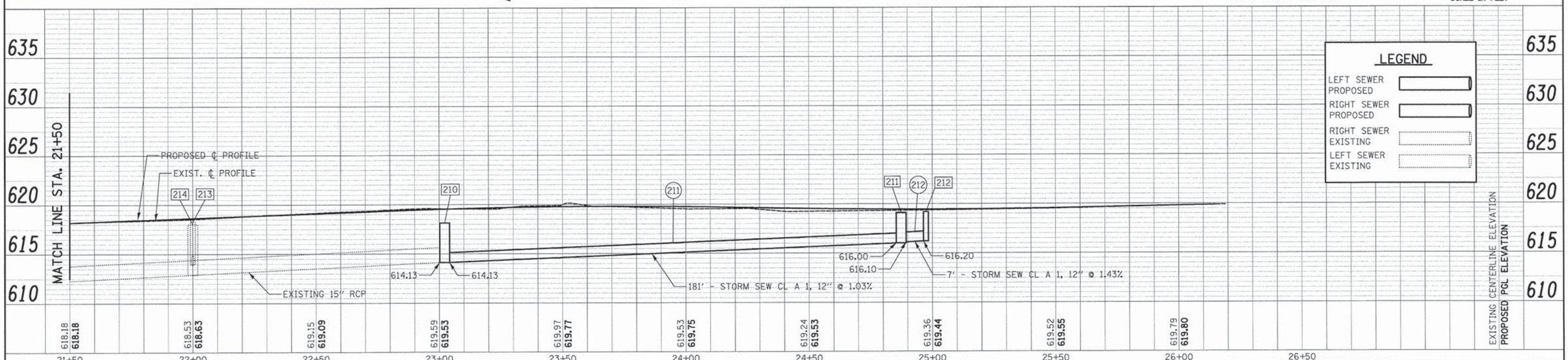
HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

GOLFVIEW AVENUE

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NO(S)/KND CHK'D		



LEGEND

- LEFT SEWER PROPOSED
- RIGHT SEWER PROPOSED
- RIGHT SEWER EXISTING
- LEFT SEWER EXISTING

FILE NAME =	USER NAME = dte	DESIGNED - JES	REVISED -
...\2563_D&U_05.dgn		DRAWN - JES	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES

SCALE: 1" = 20' | SHEET NO. 5 OF 6 SHEETS | STA. 21+50 TO STA. 26+15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	55
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
NO. BENCH MARK USED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK QUANTITIES
NO. STRUCTURE NO(TAT/NO. CHKD

101 STA. 206+29.23, 22.5 LT
EXISTING CB
CB CLEANED
RIM = 619.18

102 STA. 206+25.09, 19.6 RT
EXISITNG CB
CB CLEANED
RIM = 619.29

103 STA. 207+26.00, 21.5' LT
CB TC T12F&G
RIM = 619.05
INV = 616.55 (W)

104 STA. 207+16.00, 21.6' LT
CB TA 4 DIA T12F&G
RIM = 619.06
INV = 616.48 (E)
INV = 616.48 (S)

105 STA. 207+26.00, 18.6' RT
CB TC T12F&G
RIM = 619.21
INV = 616.33 (W)

106 STA. 207+16.00, 18.6' RT
CB TA 4 DIA T12F&G
RIM = 619.22
INV = 616.29 (N)
INV = 616.29 (E)
INV = 616.29 (S)

107 STA. 207+16.00, 28.4' RT
MAN TA 4 DIA T1F CL
RIM = 619.20
INV = 616.26 (N)
INV = 616.26 (W)

108 STA. 206+21.45, 28.6 RT
EXISTING CB
RIM = 619.05
INV = 616.05 EX (N)
INV = 615.80 (E)

109 STA. 207+54.57, 43.6' LT
CB TC T12F&G
RIM = 618.95
INV = 617.30 (SE)

110 STA. 208+12.31, 29.4' LT
CB TA 4 DIA T12F&G
RIM = 619.45
INV = 616.95 (NW)
INV = 616.95 EX (S)

111 STA. 208+16.51, 19.3' RT
CB TA 4 DIA T12F&G
RIM = 619.65
INV = 616.79 (NW)
INV = 616.79 (SE)

113 STA. 208+32.73, 28.5 RT
EXISTING CB
RIM = 618.61
INV = 617.44 (E)
INV = 617.44 (W)

114 STA. 209+89.90, 23.0 RT
CB TC T12F&G
RIM = 619.39
INV = 617.00 (SW)

115 STA. 210+13.17, 28.1 RT
EXISTING MANHOLE
DRAINAGE STR CLEANED
RIM = 618.87

116 STA. 211+87.05, 25.8' LT
CB TA 4 DIA T12 F&G
RIM = 617.99
INV = 615.04 (N)
INV = 615.04 (SE)
INV = 615.04 (NW)

116A STA. 211+91.71, 74.2' LT
CB TC T12 F&G
RIM = 618.00
INV = 615.20 (S)

117 STA. 211+70.49, 68.2' LT
MAN TA 4 DIA T1F CL
RIM = 618.85
INV = 615.10 EX (N)
INV = 615.10 (E)

118 STA. 212+49.74, 47.4' LT
CB TA 4 DIA T24F&G
RIM = 617.95
INV = 614.80 (NW)

119 STA. 212+89.83, 36.9 LT
MAN TA 4 DIA T1F CL
RIM = 617.00
INV = 614.66 (NW)
INV = 614.66 (E)

120 STA. 213+68.87, 34.0 LT
MAN TA 4 DIA T1F CL
RIM = 617.00
INV = 614.39 (W)
INV = 614.39 (E)

121 STA. 214+01.05, 43.8 LT
PRC FLAR END SEC 15
RIM = 615.71
INV = 614.27 (SW)

122 STA. 214+32.06, 25.0' LT
CB TC T24F&G
RIM = 617.87
INV = 615.09 (NE)

123 STA. 214+34.88, 32.3 LT
MAN TA 4 DIA T1F CL
RIM = 617.81
INV = 614.81 (E)
PR INV = 614.91 (SW)

124 STA. 212+17.24, 23.0' RT
CB TC T12F&G
RIM = 618.50
INV = 616.20 (SE)

125 STA. 212+33.23, 27.3' RT
MAN ADJUST
RIM = 618.35
INV = 616.01 EX (E)
PR INV = 616.01 (NW)

126 STA. 214+28.63, 21.2 RT
CB TC T12F&G
RIM = 617.96
INV = 615.35 (SE)

127 STA. 214+33.43, 23.9 RT
MAN TA 4 DIA T1F CL
RIM = 618.26
INV = 615.28 (W)
INV = 615.21 (E)
INV = 615.28 (NW)

200 STA. 11+90.00, 20.0' LT
CB TC T12F&G
RIM = 618.06
INV = 616.20 (W)

201 STA. 11+90.01, 42.5' LT
MAN TA 4 DIA T1 CL
RIM = 618.05
INV = 616.00 (E)
INV = 615.43 EX (S)
INV = 615.43 EX (N)

202 STA. 14+02.55, 21.0 RT
EXISTING CB
CB CLEANED
EX RIM = 617.08

203 STA. 14+02.59, 20.8 LT
EXISTING CB
CB CLEANED
EX RIM = 616.98

204 STA. 14+12.30, 43.1 LT
EXISTING MH
DRAINAGE STR CLEANED
EX RIM = 617.96
INV = 614.03 EX (N)
INV = 614.03 EX (S)
INV = 614.03 EX (E)

205 STA. 14+32.75, 42.9' LT
CB TA 4 DIA T12F&G
RIM = 618.00
INV = 613.83 EX (N)
INV = 613.83 EX (S)

207 STA. 19+29.60, 18.07 LT
MAN ADJUST
EX RIM = 616.65
PR RIM = 616.65
INV = 609.78 EX (N)
INV = 609.65 EX (NE)
INV = 609.65 EX (SW)
INV = 611.64 EX (SW)
INV = 613.00 EX (S)

208 STA. 20+27.13, 29.7 LT
MAN TA 4 DIA T1F CL
RIM = 616.61
INV = 612.90 (E)
INV = 610.78 EX (N)
INV = 610.78 EX (S)

209 STA. 20+27.33, 21.0 LT
CB TC T12F&G
RIM = 617.11
INV = 613.11 (W)

210 STA. 23+02.21, 28.5' LT
MAN TA 4 DIA T1F CL
RIM = 618.13
INV = 614.13 EX (S)
INV = 614.13 (N)

211 STA. 24+87.36, 13.6' LT
CB TA 4 DIA T12F&G
RIM = 619.18
INV = 616.10 (N)
INV = 616.00 (S)

212 STA. 24+97.44, 13.4' LT
CB TC T12F&G
RIM = 619.18
INV = 616.20 (S)

213 STA. 22+00, 18.0' LT
CB TC T12F&G
RIM = 618.27
INV = 613.96 (W)

214 STA. 22+00, 25.2' LT
MAN TA 4 DIA T1F CL
RIM = 618.38
INV = 613.88 (E)
INV = 612.88 EX (N)
INV = 612.88 EX (S)

(103) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.00%
TBF = 1.1 CU YD

(104) 37' - STORM SEWERS, CL A, TYPE 1 12" @ 0.51%
TBF = 6.8 CU YD

(105) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 0.57%
TBF = 1.4 CU YD

(106) 6' - STORM SEWERS, CL A, TYPE 1 12" @ 0.50%
TBF = 0.6 CU YD

(107) 91' - STORM SEWERS, CL A, TYPE 1 12" @ 0.51%
TBF = 0.0 CU YD

(109) 60' - STORM SEWERS, CL B, TYPE 1 8" @ 0.58%
TBF = 8.3 CU YD

(111) 8' - STORM SEWERS, CL B, TYPE 1 8" @ 0.50%
TBF = 0.0 CU YD

(114) 6' - STORM SEWERS, CL B, TYPE 1 8" @ 0.50%
TBF = 0.0 CU YD

(116) 65' - STORM SEWERS, CL A, TYPE 1 15" @ 0.37%
TBF = 18.3 CU YD

(116A) 10' - STORM SEWERS, CL A, TYPE 1 12" @ 1.60%
TBF = 1.9 CU YD

(117) 12' - STORM SEWERS, CL A, TYPE 1 15" @ 0.50%
TBF = 0.7 CU YD

(118) 39' - STORM SEWERS, CL A, TYPE 1 15" @ 0.36%
TBF = 0.8 CU YD

(119) 76' - STORM SEWERS, CL A, TYPE 1 15" @ 0.36%
TBF = 4.2 CU YD

(120) 26' - STORM SEWERS, CL A, TYPE 1 15" @ 0.38%
TBF = 0.0 CU YD

(122) 5' - STORM SEWERS, CL A, TYPE 1 12" @ 3.60%
TBF = 0.8 CU YD

(124) 13' - STORM SEWERS, CL A, TYPE 1 12" @ 1.46%
TBF = 1.7 CU YD

(126) 3' - STORM SEWERS, CL A, TYPE 1 12" @ 2.33%
TBF = 0.5 CU YD

(200) 19' - STORM SEWERS, CL A, TYPE 1 12" @ 1.05%
TBF = 0.3 CU YD

(209) 6' - STORM SEWERS, CL A, TYPE 2 12" @ 3.50%
TBF = 1.5 CU YD

(211) 181' - STORM SEWERS, CL A, TYPE 1 12" @ 1.03%
TBF = 16.7 CU YD

(212) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.43%
TBF = 1.6 CU YD

(213) 4' - STORM SEWERS, CL A, TYPE 2 12" @ 2.00%
TBF = 0.7 CU YD

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. CURB STRUCTURE RIM ELEVATIONS ARE LOCATED AT THE EDGE OF PAVEMENT.

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		DRAWN - JES	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: | SHEET NO. 6 OF 6 SHEETS | STA | TO STA

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	56
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

STORM STRUCTURES

N6 STA. 109+70.92, 52.9' RT
MAN TA 5 DIA T1F OL
RIM = 618.80
INV = 613.38 (N)
INV = 613.38 (S)

N7 STA. 107+00.44, 37.4' RT
EXISTING CB
RIM = 617.52
EX INV = 613.17 (NW)
INV = 614.18 (N)
INV = 614.18 (W)

N7A STA. 107+15.43, 37.9' LT
CB TA 4 DIA T1F OL
RIM = 617.65
INV = 614.15 (N)
INV = 614.15 (S)

N8 STA. 107+00.44, 12.0' LT
CB TA 4 DIA T12F&G
RIM = 617.85
INV = 614.63 (N)
INV = 614.63 (E)

N9 STA. 107+10.44, 12.0' LT
CB TC T12F&G
RIM = 617.70
INV = 614.70 (S)

STORM SEWER PIPES

(164) 7' - STORM SEWERS, CL A, TYPE 1 12" @ 1.00%
TBF = 1.4 CU YD

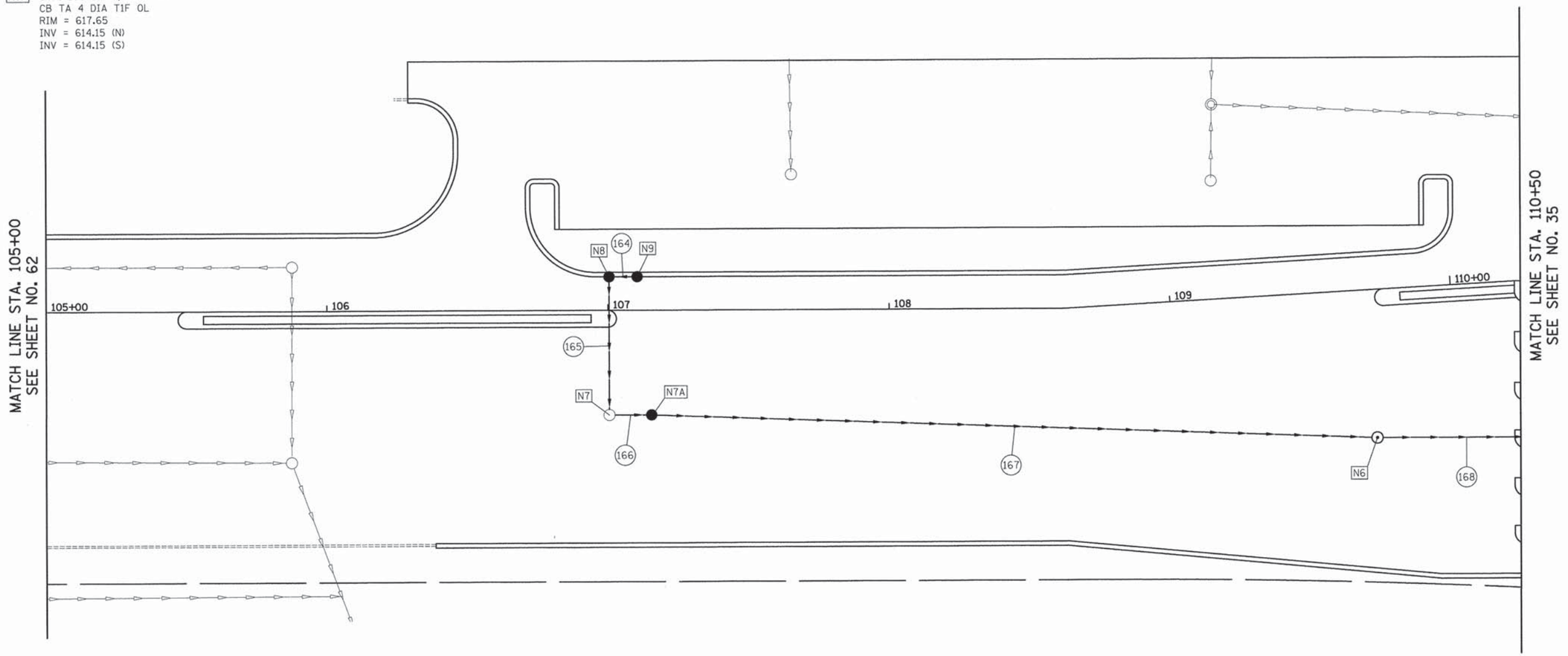
(165) 45' - STORM SEWERS, CL A, TYPE 1 12" @ 1.00%
TBF = 9.2 CU YD

(166) 11' - STORM SEWERS, CL A, TYPE 1 24" @ 0.27%
TBF = 4.4 CU YD

(167) 255' - STORM SEWERS, CL A, TYPE 1 24" @ 0.30%
TBF = 105.1 CU YD

(168) 82' - STORM SEWERS, CL A, TYPE 1 36" @ 0.20%
TBF = 87.2 CU YD

N



NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB INLETS ARE AT THE FLOW LINE.

BROOKFIELD ZOO NORTH PARKING LOT

HORIZ. 20 0 20
VERT. 20 0 20
SCALE IN FEET

FILE NAME = ...\2563_LOT_04_NoDET.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - JES	REVISED -
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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO NORTH PARKING LOT PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 6 SHEETS | STA. 105+00 TO STA. 110+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	57
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STORM STRUCTURES

3 STA. 112+91.59, 36.6' LT
MAN ADJ NEW T1F CL
EX RIM = 618.15
PR RIM = 618.15
INV = UNKNOWN (W,S,N)
INV = 612.56 (SE)

8 STA. 111+19.90, 25.4' LT
CB ADJUST
EX RIM = 617.18
PR RIM = 617.50

9 STA. 112+91.59, 36.6' LT
CB ADJ NEW T8G
EX RIM = 618.94
PR RIM = 618.94

N1 STA. 112+77.31, 58.8' LT
CB TC T12F&G
RIM = 618.85
INV = 613.80 (N)

N2 STA. 112+91.80, 57.5' LT
CB TA 4 DIA T12 F&G
RIM = 618.95
INV = 610.00 EX (E)
INV = 610.00 EX (W)
INV = 613.56 (S)

N3 STA. 112+68.91, 26.3' LT
CB TA 5 DIA T8G
RIM = 618.00
INV = 612.66 (N)
INV = 612.66 (E)

N5 STA. 110+61.32, 55.8' RT
MAN TA 5 DIA T1F OL
RIM = 619.75
INV = 613.22 (N)
INV = 613.22 (S)

N11 STA. 110+57.72, 78.2' LT
CB TC T12F&G
RIM = 617.85
INV = 611.85 (E)

N12 STA. 110+56.80, 57.3' LT
MAN TA 4 DIA T1F CL
RIM = 618.44
INV = 609.70 EX (S)
INV = 609.70 EX (N)
INV = 609.70 (E)
INV = 611.70 (W)

N13 STA. 112+69.03, 55.4' RT
MAN TA 5 DIA T1F CL
RIM = 622.33
INV = 612.81 (N)
INV = 612.81 (W)
INV = 612.81 (S)

N14 STA. 112+93.26, 26.3' RT
MAN TA 6D T1F CL R-P
RIM = 618.42
INV = 612.65 (NW)
INV = 612.65 (S)

STORM SEWER PIPES

(160) 12' - STORM SEWERS, CL A, TYPE 2 12" @ 2.00%
TBF = 7.8 CU YD

(161) 77' - STORM SEWERS, CL A, TYPE 2 36" @ 0.19%
TBF = 81.5 CU YD

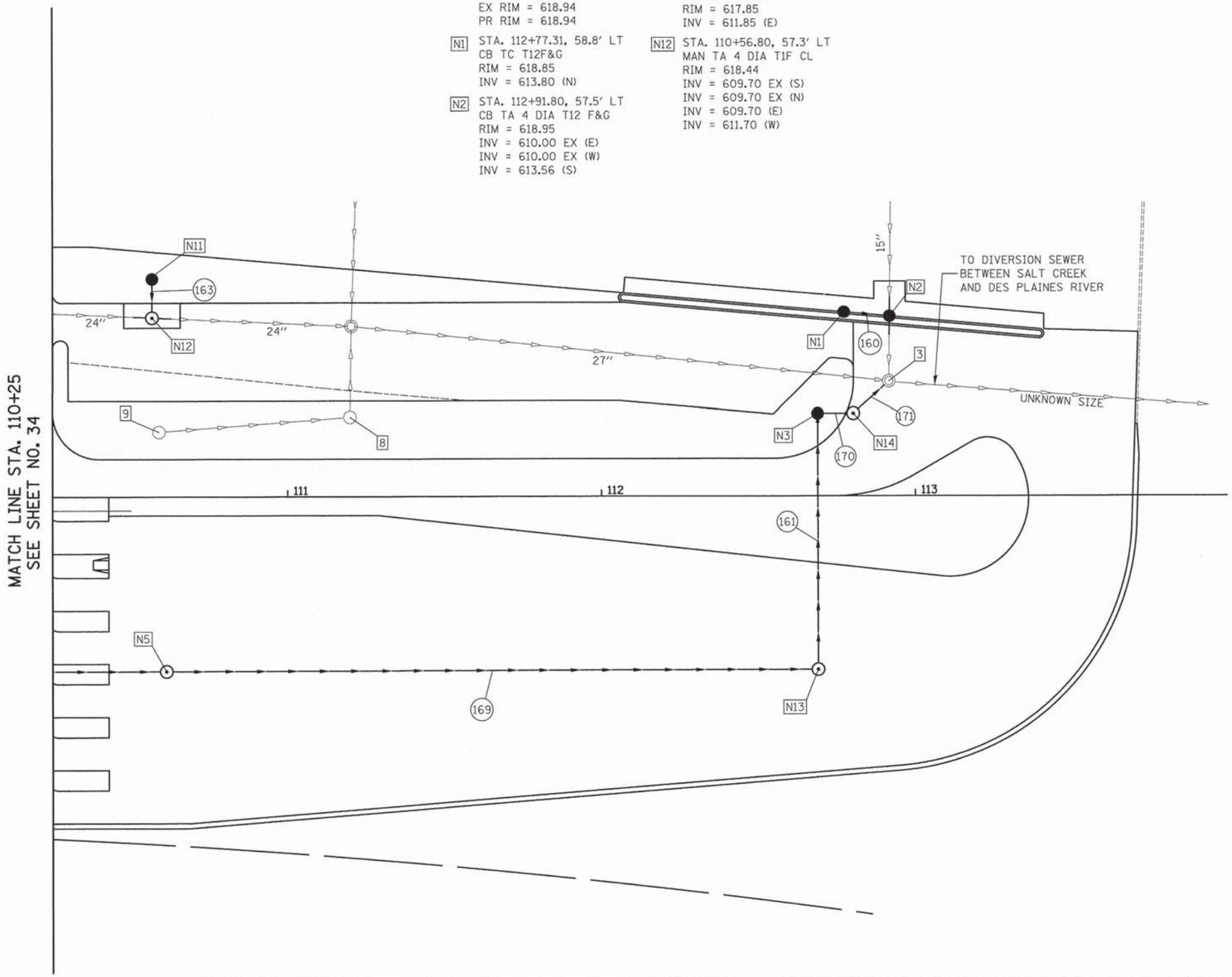
(163) 10' - STORM SEWERS, CL A, TYPE 2 12" @ 1.50%
TBF = 4.1 CU YD

(169) 203' - STORM SEWERS, CL A, TYPE 2 36" @ 0.20%
TBF = 316.1 CU YD

(170) 6' - STORM SEWERS, CL A, TYPE 1 36" @ 0.17%
TBF = 15.6 CU YD

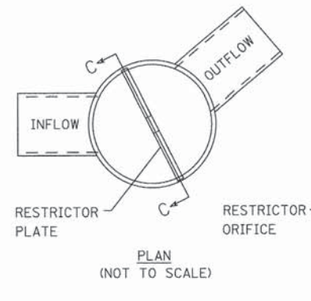
(171) 9' - STORM SEWERS, CL A, TYPE 2 24" @ 1.00%
TBF = 7.6 CU YD

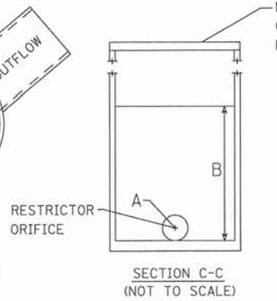
N



OUTLET STRUCTURE N14

STRUCTURE	DIA. "A"	INVERT "A"	DIMENSION "B"	TOP OF RESTRICTOR PLATE ELEV.
N14	0.39'	612.65'	3.0'	615.65'





NOTE

PLATE TO 1" LONGER THAN "D" DIMENSION 5/8 WIDE X 1" DEEP CHANNEL TO BE CUT INTO BOTTOM OF MANHOLE. GROUT AREA AROUND STEEL PLATE AND BOTTOM.

NOTES:

1. STATIONS AND OFFSETS ARE TO THE CENTER OF THE STRUCTURE.
2. RIM ELEVATIONS FOR CURB INLETS ARE AT THE FLOW LINE.
3. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.

HORIZ.: 20 0 20
VERT.: 20 0 20
SCALE IN FEET

BROOKFIELD ZOO NORTH PARKING LOT

FILE NAME = ...\2563_LOT_05_NoDET.dgn	USER NAME = dte	DESIGNED - JES	REVISED -
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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO NORTH PARKING LOT PLAN

SCALE: 1" = 20' | SHEET NO. 5 OF 6 SHEETS | STA. 110+50 TO STA. 113+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	58
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

(XXX.XX) EXISTING PAVEMENT ELEVATION

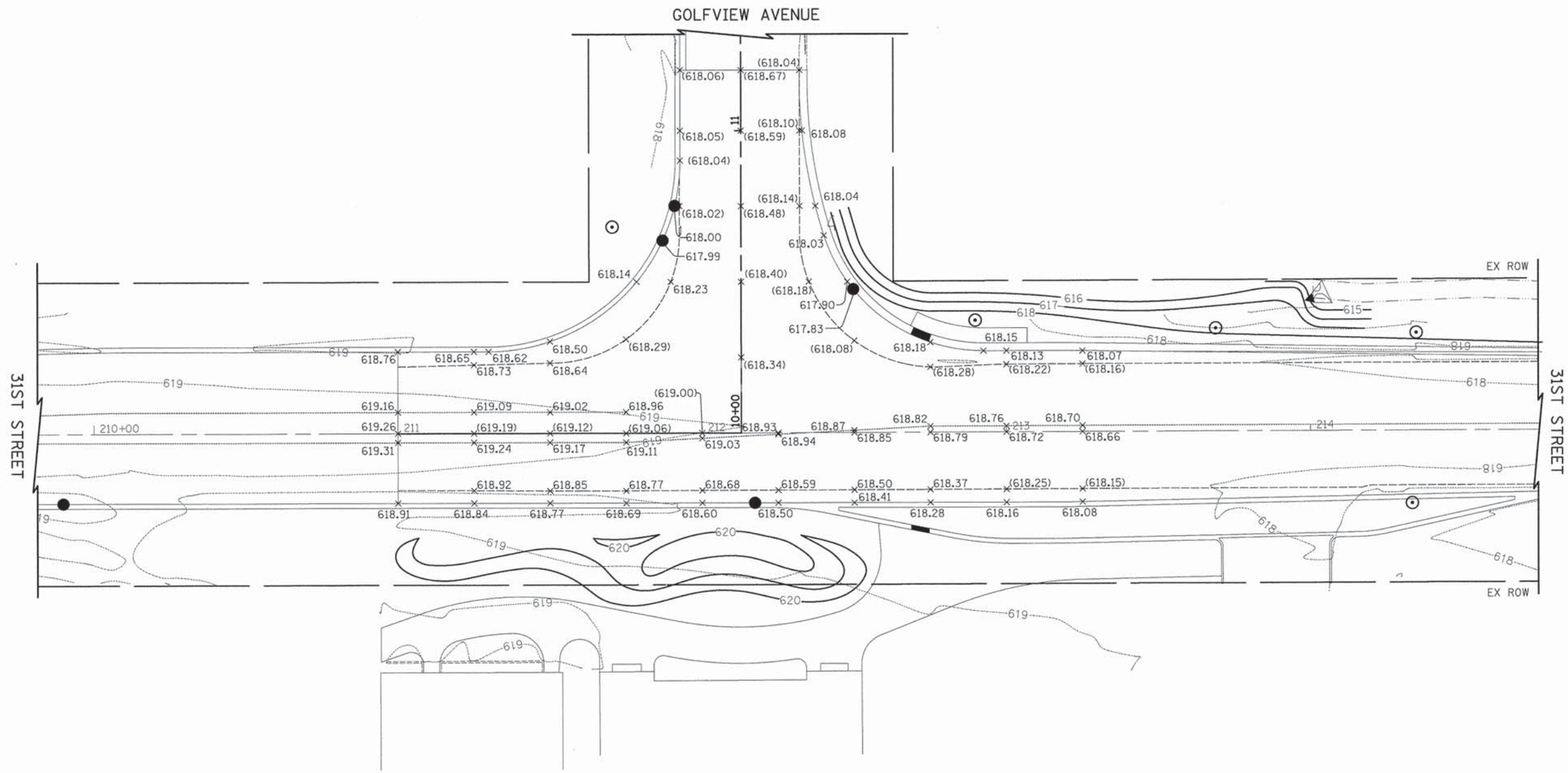
XXX.XX PROPOSED PAVEMENT ELEVATION

EXISTING CONTOUR

PROPOSED CONTOUR

IN THE RESURFACING AREA, ALL EXISTING ELEVATIONS WILL ALSO BE THE FINAL PROPOSED SURFACE ELEVATION.

N



31ST STREET
GOLFVIEW AVENUE

20 0 20
SCALE IN FEET

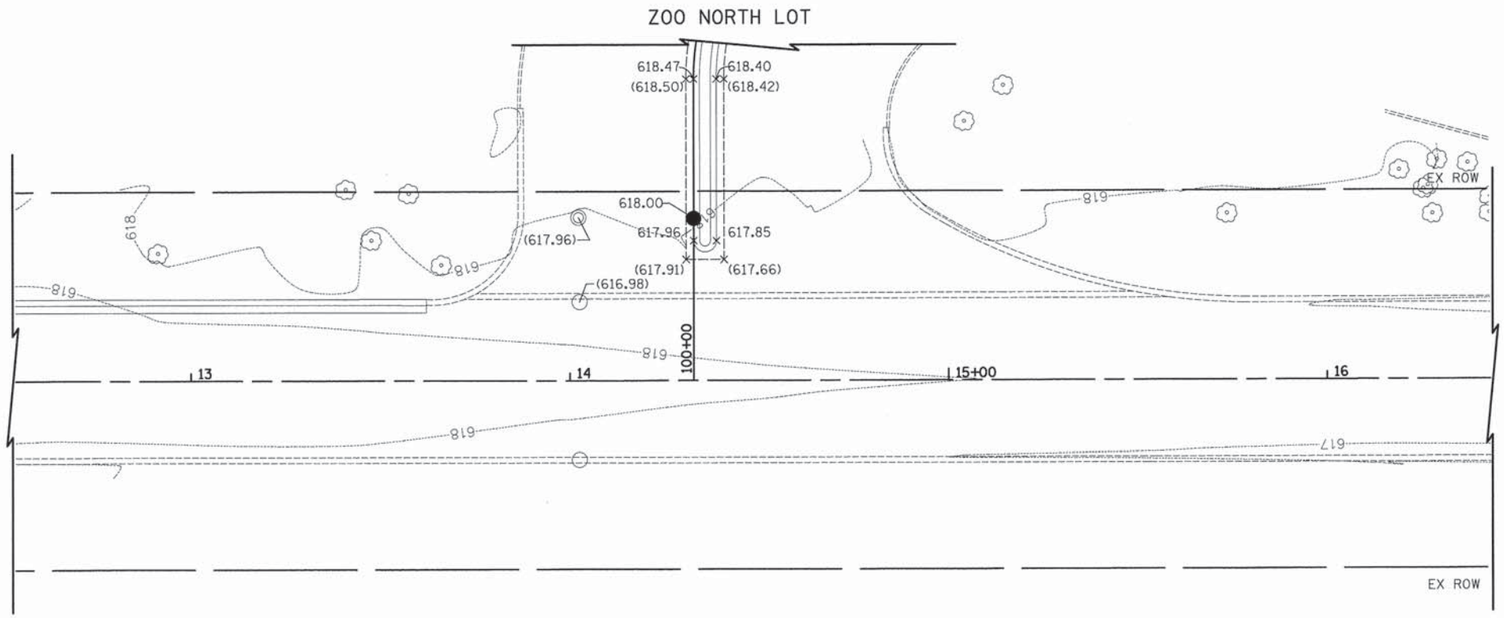
FILE NAME = ...\12-Grading\2563_INT_01.dgn	USER NAME = dte	DESIGNED DTE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**INTERSECTION DETAILS**
		DRAWN DTE	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED GAB	REVISED -		SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	59
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

(XXX.XX) EXISTING PAVEMENT ELEVATION

XXX.XX PROPOSED PAVEMENT ELEVATION



GOLFVIEW AVENUE

20 0 20
SCALE IN FEET

FILE NAME = ...\12-Grading\2563_INT_02.dgn	USER NAME = dte	DESIGNED DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN DTE	REVISED -					3784	12-F3000-23-PK	COOK	131	60
	PLOT SCALE = 20.0000 ' / in.	CHECKED GAB	REVISED -							CONTRACT NO. 63764		
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		SCALE: 1" = 20'	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

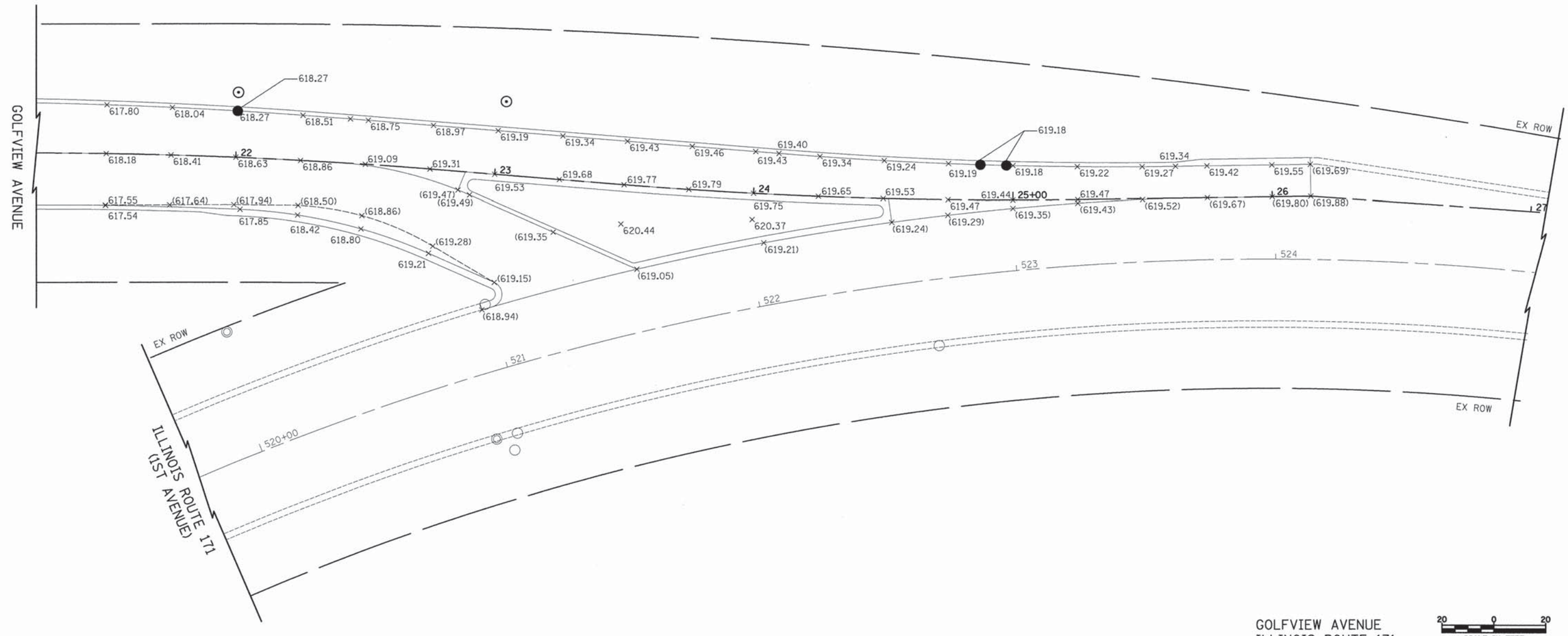
LEGEND

(XXX.XX) EXISTING PAVEMENT ELEVATION

XXX.XX PROPOSED PAVEMENT ELEVATION

IN THE RESURFACING AREA, ALL EXISTING ELEVATIONS WILL ALSO BE THE FINAL PROPOSED SURFACE ELEVATION.

N



GOLFVIEW AVENUE
ILLINOIS ROUTE 171

20 0 20
SCALE IN FEET

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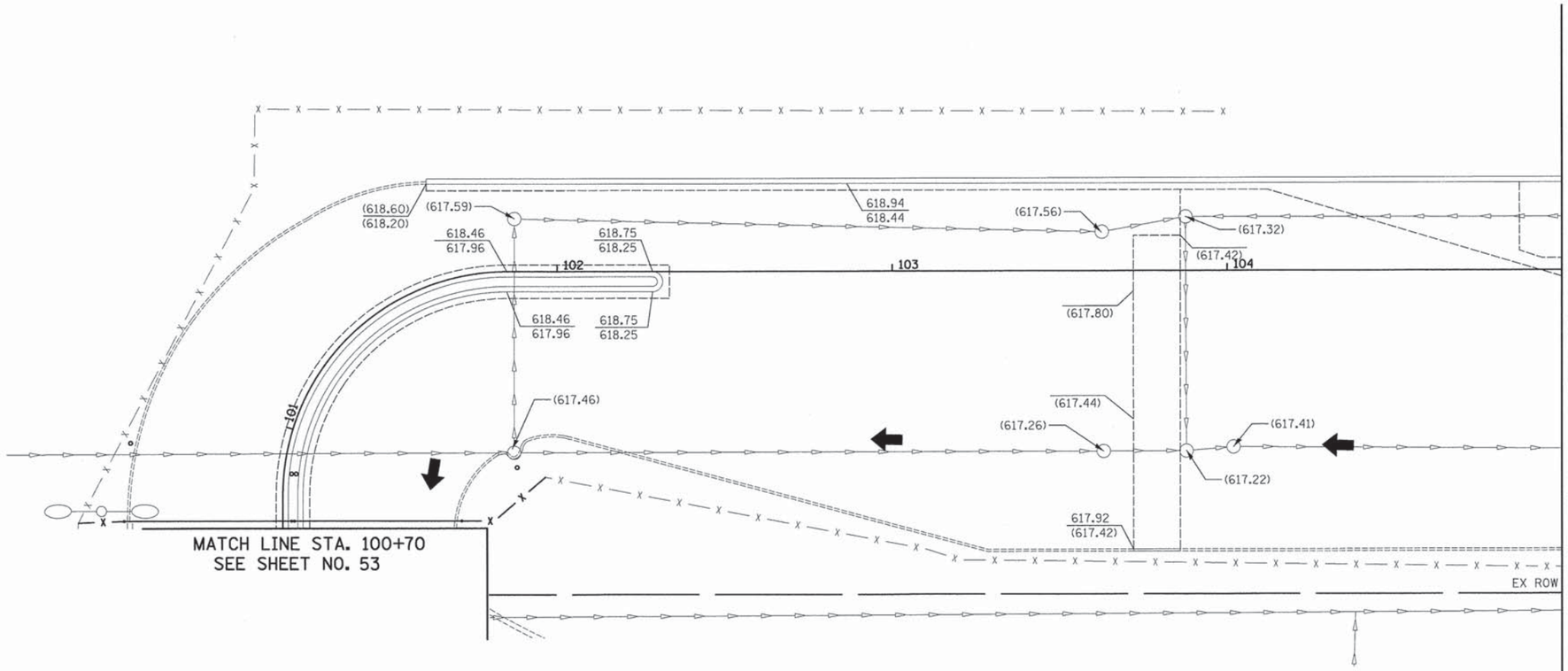
		DRAWN DTE	REVISED -		SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.
	PLOT SCALE = 20.0000 ' / in.	CHECKED GAB	REVISED -		
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	61
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

618.00 / 617.50	TOP OF CURB ELEVATION / FLOW LINE ELEVATION
(617.50)	EXISTING ELEVATION
———	DRAINAGE DIVIDE
- - - - -	GRADING LIMITS
·····	EXISTING MAJOR CONTOUR
·····	EXISTING MINOR CONTOUR
⬅	OVERLAND FLOW ROUTE

N



BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 100+75 TO STA. 105+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	62
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

618.00 / 617.50 TOP OF CURB ELEVATION / FLOW LINE ELEVATION

(617.50) EXISTING ELEVATION

DRAINAGE DIVIDE

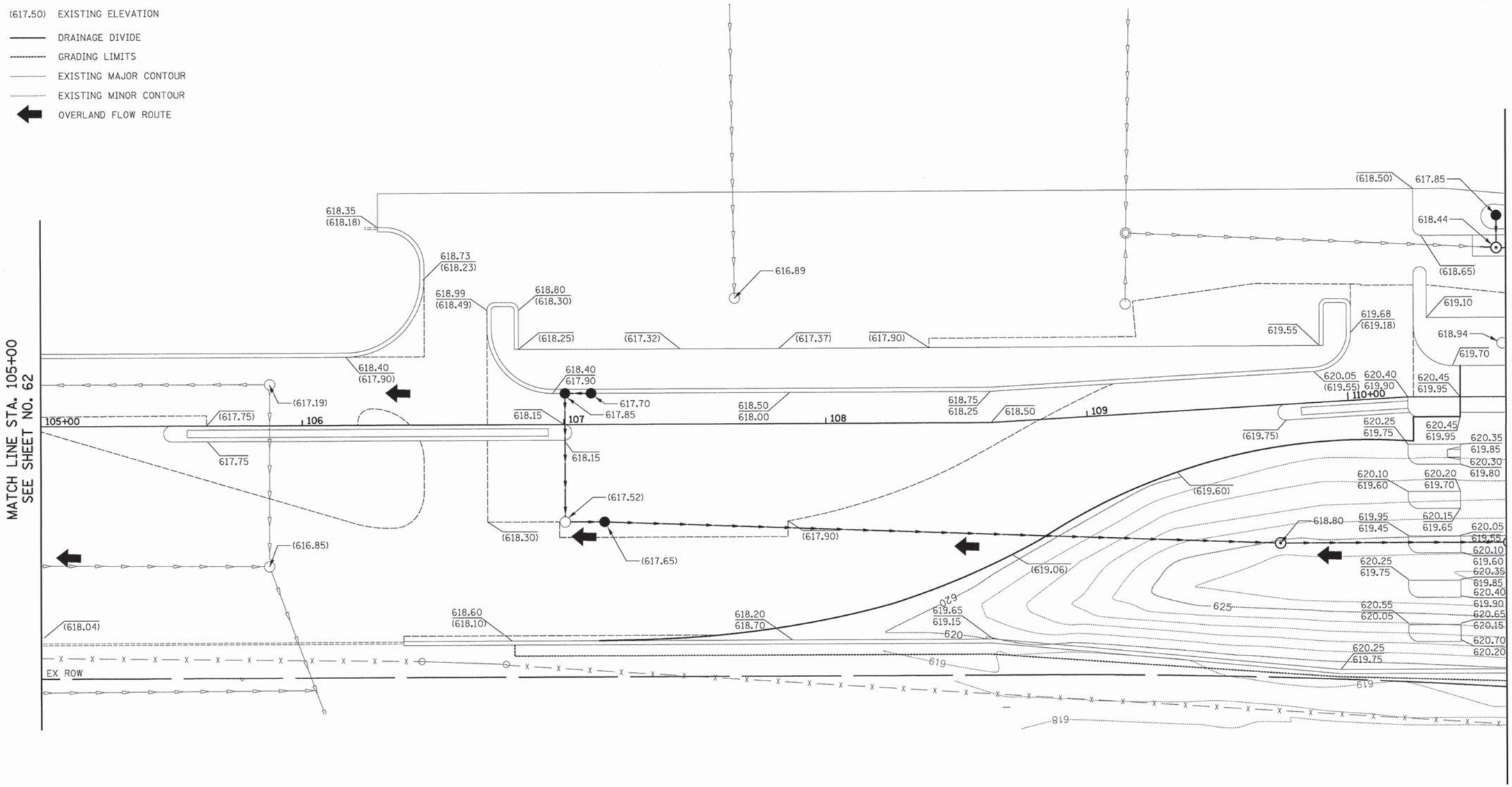
GRADING LIMITS

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

OVERLAND FLOW ROUTE

N



BROOKFIELD ZOO NORTH PARKING LOT

HORIZ. 20 0 20
VERT. 5 0 5
SCALE IN FEET

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

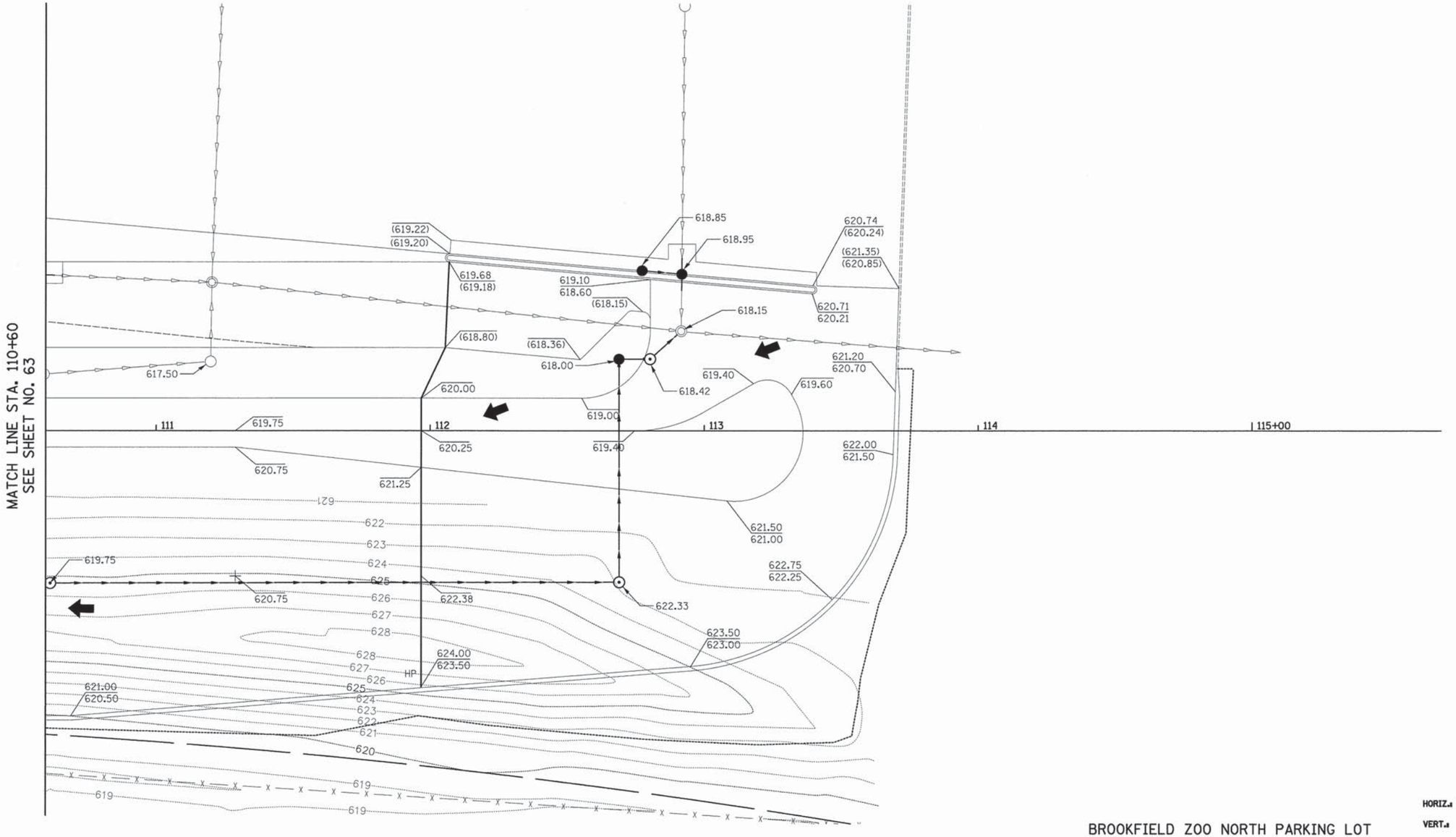
SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 105+00 TO STA. 110+60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	63
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LEGEND

618.00 / 617.50	TOP OF CURB ELEVATION / FLOW LINE ELEVATION
(617.50)	EXISTING ELEVATION
———	DRAINAGE DIVIDE
- - - - - -	GRADING LIMITS
- - - - - -	EXISTING MAJOR CONTOUR
· · · · · ·	EXISTING MINOR CONTOUR
⬅	OVERLAND FLOW ROUTE

N



BROOKFIELD ZOO NORTH PARKING LOT

HORIZ.: 20 0 20
VERT.: 5 0 5
SCALE IN FEET

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 110+50 TO STA. 113+71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	64
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

RELOCATED EXISTING TRAFFIC SIGNS

(1)	SPEED LIMIT 35	R2-1, 30″x36″
(2)		R3-2, 30″x30″
(3)	NO PARKING ANY TIME	R7-1, 12″x18″
(4)	PARKING	SPECIAL, 24″x18″
(5)	PARKING	SPECIAL, 24″x18″
(6)	WELCOME TO BROOKFIELD POPULATION 19,085 TREE CITY U.S.A.	SPECIAL, 36″x30″
(7)	GIRLS SOFTBALL GIRLS STATE CHAMPS BOYS STATE CHAMPS	SPECIAL, 48″x24″
(8)	TREE CITY U.S.A	SPECIAL, 24″x30″
(9)	BROOKFIELD JAYCEES WELCOME YOU	SPECIAL, 18″x24″
(10)	ZOO	SPECIAL, 36″ DIA
(11)	PACE BUS STOP 331	SPECIAL, 18″x18″

PROPOSED TRAFFIC SIGNS

(12)	STOP	R1-1, 30″x30″
(13)	ONLY	R3-5R, 30″x36″
(14)		R4-7, 24″x30″
(15)	KEEP RIGHT	R4-7a, 24″x30″
(16)	ONLY ONLY	R3-SPECIAL, 36″x36″
(17)	ONLY ONLY	R3-SPECIAL, 36″x36″
(18)	ONLY	R3-SPECIAL, 36″x36″
(19)	ONLY	R3-SPECIAL, 36″x36″

PROPOSED PARKING LOT SIGNS

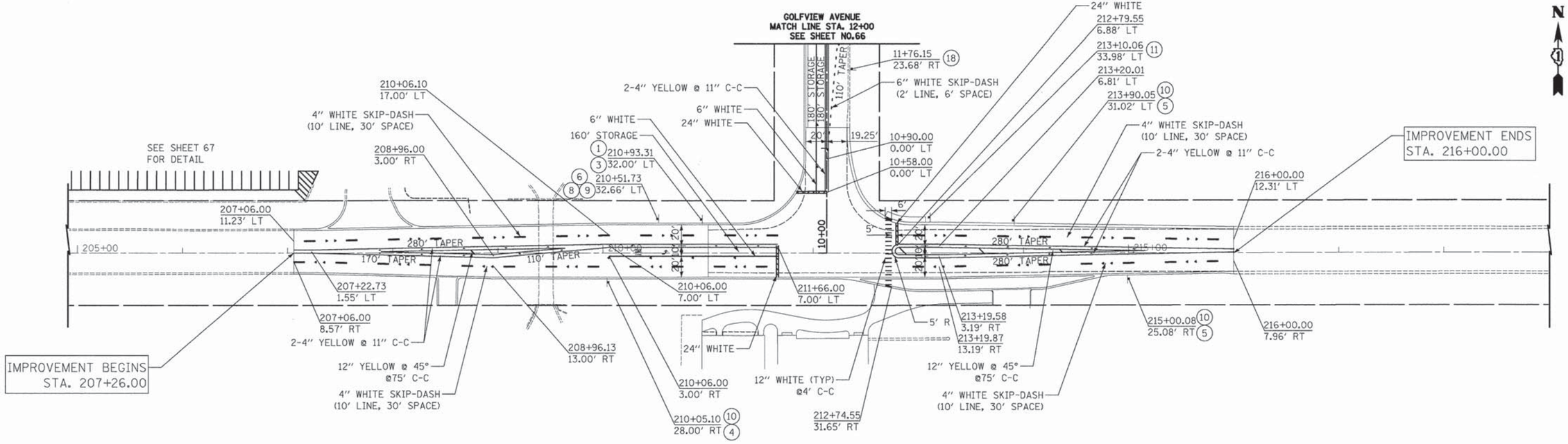
(20)	ONLY TO 1ST AVENUE / ONLY TO 31 ST STREET	SPECIAL, SEE DETAIL SHEET 110
(21)	MAIN GATE TICKET PLAZA / LION	SPECIAL, SEE DETAIL SHEET 110
(22)	MAIN GATE TICKET PLAZA / GORILLA	SPECIAL, SEE DETAIL SHEET 110
(23)	10 MPH / WATCH FOR CHILDREN	SPECIAL, SEE DETAIL SHEET 110
(24)	MORE PARKING / ← LION LOT	SPECIAL, SEE DETAIL SHEET 110
(25)	EXIT ↑ / PARKING →	SPECIAL, SEE DETAIL SHEET 110
(26)	ONE WAY →	SPECIAL, SEE DETAIL SHEET 110
(27)	DO NOT ENTER	SPECIAL, SEE DETAIL SHEET 110

RAISED PAVEMENT MARKINGS LEGEND

- ◁ ONE-WAY CRYSTAL
- ◀ ONE-WAY AMBER
- ◆ TWO-WAY AMBER

NOTES:

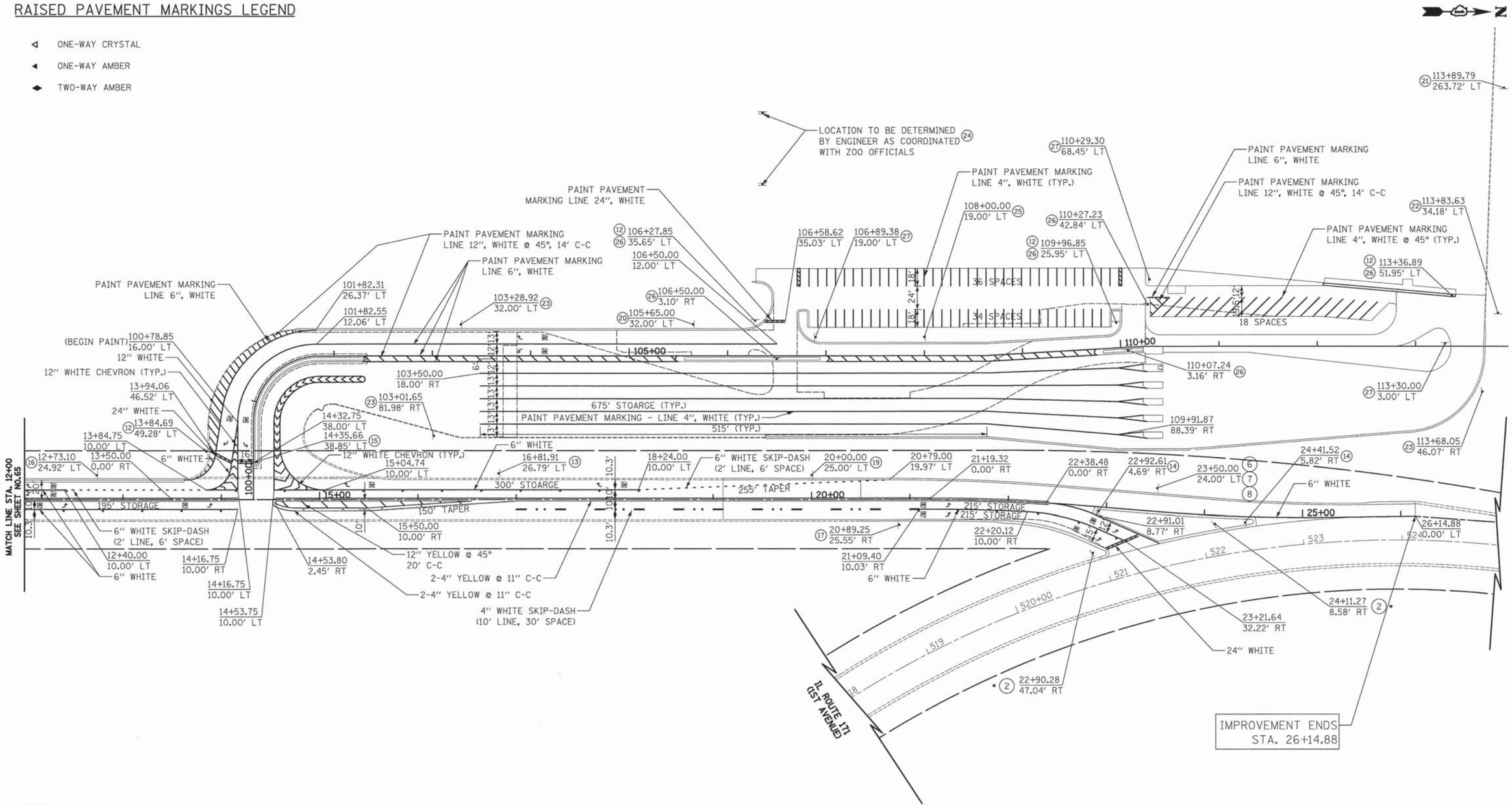
1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-11
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-13



FILE NAME = ...\2563_PMK_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	131	65
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -					CONTRACT NO. 63764		
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -		SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. 207+26.00 TO STA. 216+00.00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

RAISED PAVEMENT MARKINGS LEGEND

- ◁ ONE-WAY CRYSTAL
- ◂ ONE-WAY AMBER
- ◆ TWO-WAY AMBER



NOTES:

1. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-11
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT DISTRICT ONE STANDARD TC-13

• SIGN PANEL TO BE PLACED ON TRAFFIC SIGNAL POST

50 0 50
SCALE IN FEET

GOLFVIEW AVENUE

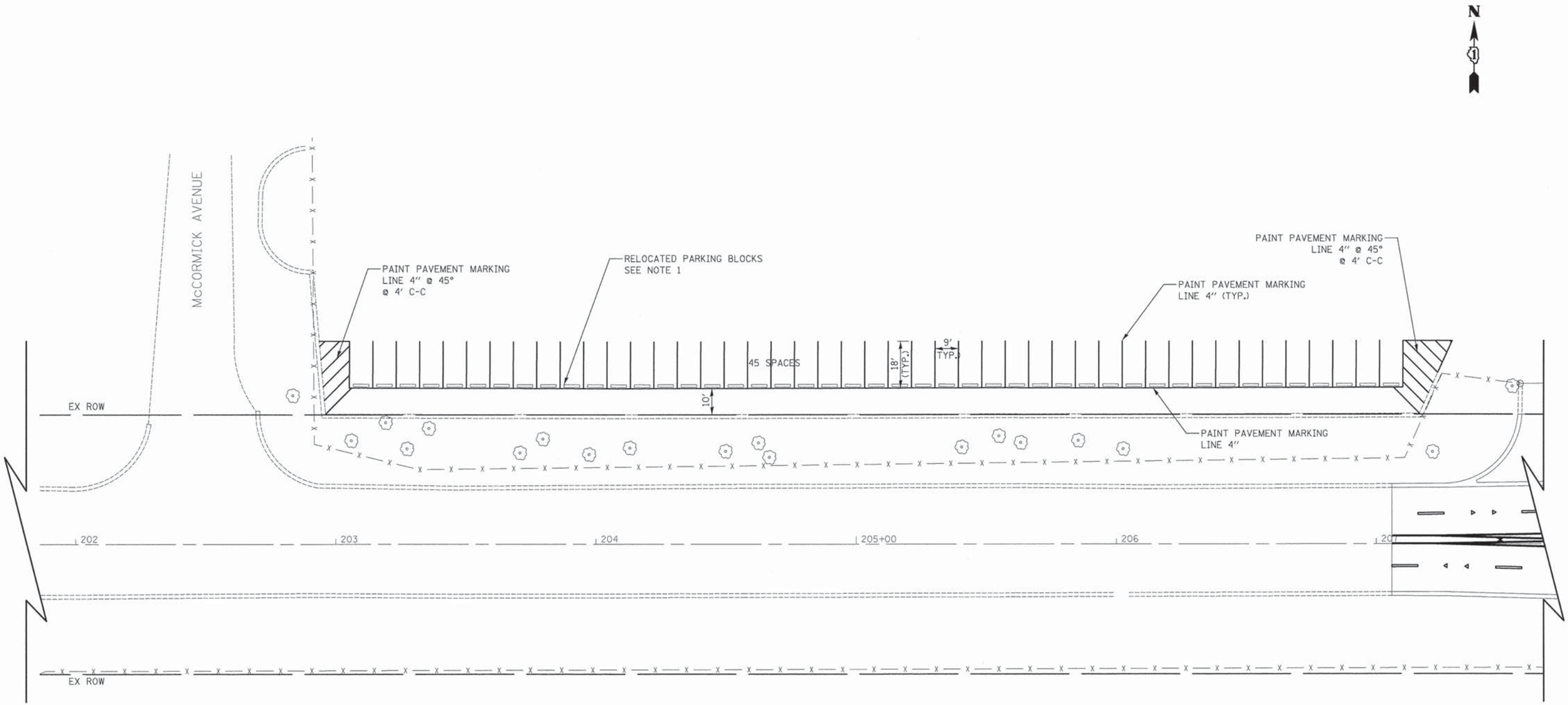
FILE NAME = ...\2563_PMK_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0209 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/23/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. 12+00.00 TO STA. 27+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	66
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. EXISTING PARKING BLOCKS TO BE RELOCATED TO NEW PARKING STALLS SHALL BE PAID FOR AS "WHEEL STOP REMOVAL AND REPLACEMENT"

31ST STREET

20 0 20
SCALE IN FEET

FILE NAME = ...\2563_PMK_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	67
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SEEDING, CLASS 2A
EXCAVATED TOPSOIL PLACEMENT, 4 INCH

SODDING, SALT TOLERANT

MATCH LINE STA. 12+00
SEE SHEET NO. 69

N

IMPROVEMENT ENDS
STA. 216+00.00

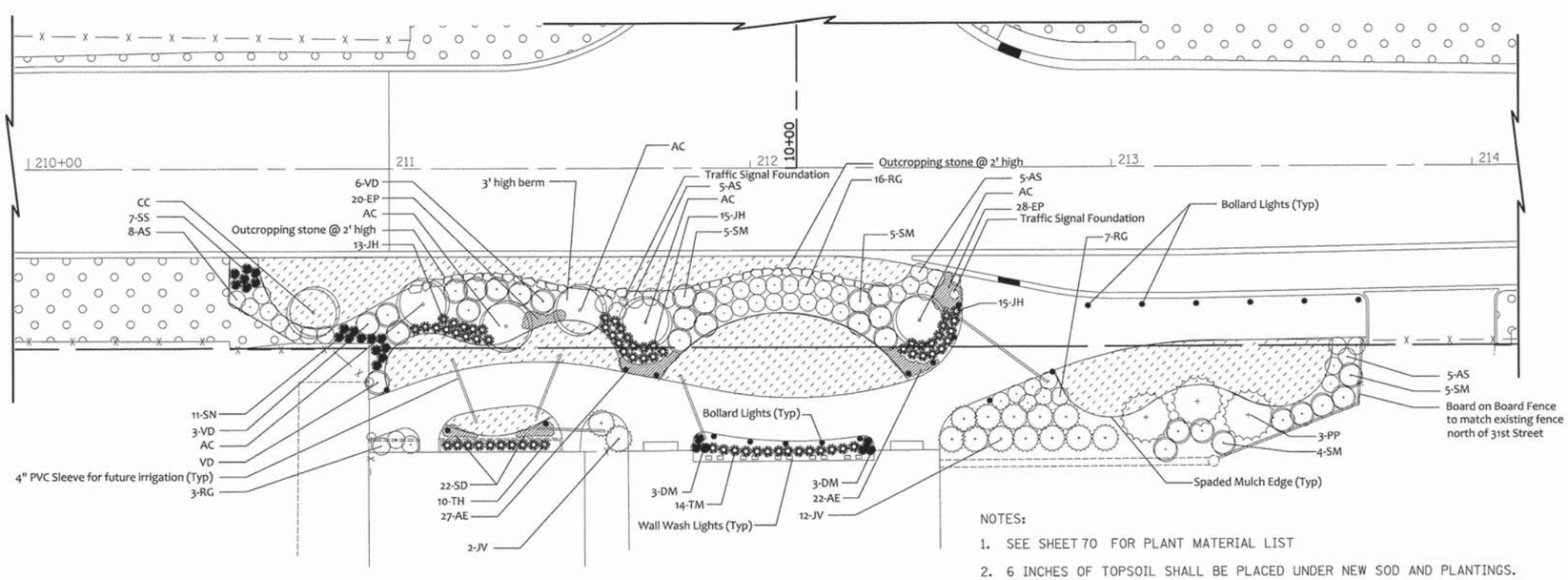
205+00 | 210+00 | 10+00 | 215+00

IMPROVEMENT BEGINS
STA. 207+26.00

SEE BELOW
FOR DETAIL

50 0 50
SCALE IN FEET

31ST STREET



N

NOTES:

1. SEE SHEET 70 FOR PLANT MATERIAL LIST
2. 6 INCHES OF TOPSOIL SHALL BE PLACED UNDER NEW SOD AND PLANTINGS. THIS WORK SHALL BE INLCUDED IN THE COST OF "TOPSOIL EXCAVATION AND PLACEMENT."
3. TOPSOIL SHALL BE USED TO BUILD UP THE BERM. THIS WORK SHALL BE PAID FOR AS "TOPSOIL FURNISH AND PLACE, 24 INCH"

20 0 20
SCALE IN FEET

31ST STREET

FILE NAME = ...\14-Landscaping\2563_LSC_01.dgn	USER NAME = dte	DESIGNED - KTK	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

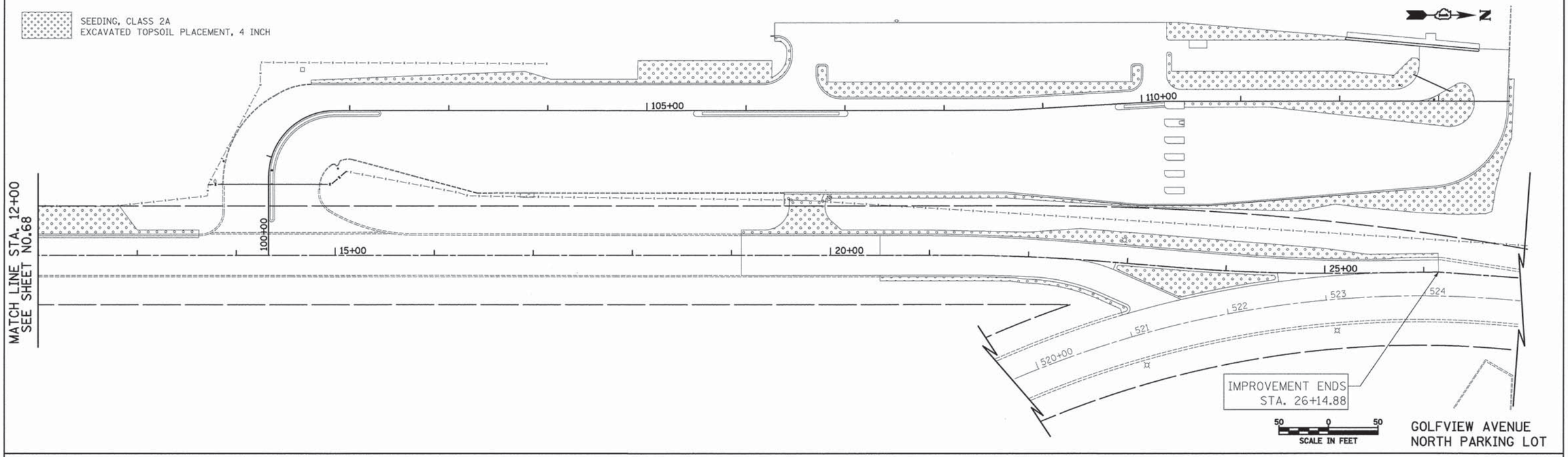
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

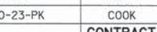
SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. 207+26.00 | TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	68
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SEEDING, CLASS 2A
EXCAVATED TOPSOIL PLACEMENT, 4 INCH



GOLFVIEW AVENUE
NORTH PARKING LOT



20 0 20
SCALE IN FEET

GOLFVIEW AVENUE
NORTH PARKING LOT

FILE NAME = ...\14-Landscaping\2563_LSC_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -
		DRAWN - DTE	REVISED -
	PLOT SCALE = 50.0209 ' / in.	CHECKED - GAB	REVISED -
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN

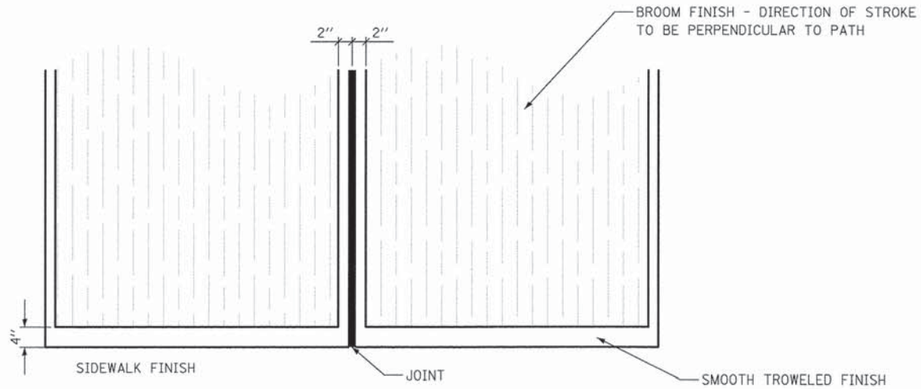
SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. 12+00.00 | TO STA. 27+00.00

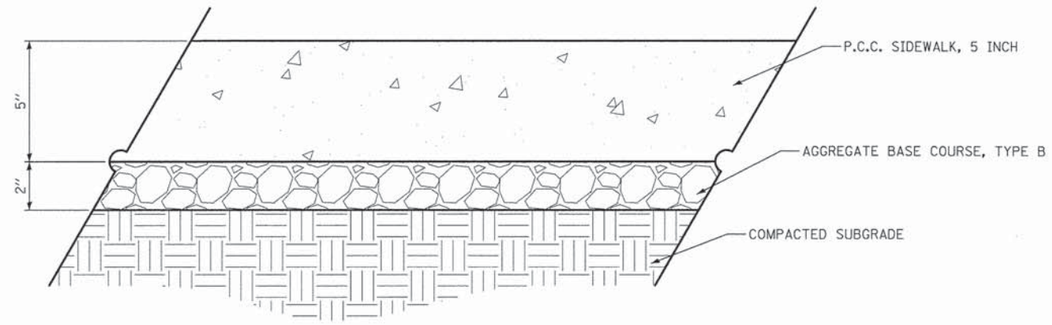
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	69
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

31st STREET PLANT MATERIAL LIST

	SYM	QTY	BOTANICAL NAME	IDOT ABBREVIATION
			ORNAMENTAL TREES	
	AC	5	Amelanchier canadensis	T-AMELAN CAN SF 6'
	CC	1	Cercis canadensis	T-CERCIS CAN CL 6'
			EVERGREENS	
	JH	43	Juniperus horizontalis	E-JUNIP HOR WIL 18C
	JV	14	Juniperus virginiana	E-JUNIP VIRG 6'
	PP	3	Picea pungens	E-PICEA PUNGENS 6'
	TH	10	Taxus media 'Hicksii'	E-TAXUS X MD HKS 2'C
	TM	14	Taxus media 'Densiformis'	E-TAXUS X MD DN 2'C
			SHRUBS	
	RG	26	Rhus aromatica 'Gro Low'	S-RHUS AROMA GRO 18C
	VD	10	Viburnum dentatum ' Blue Muffin'	S-VIBURN DENT BMA 3'
	SM	19	Syringa patula 'Miss Kim'	S-SYRINGA PAT MK 2'
			PERENNIALS	
	AE	0.49	Aster ericoides 'Heath Aster'	P PL ORNAMENT T GAL P
	AS	0.23	Aronia Arbutifolia 'Brilliantissima'	P PL ORNAMENT T GAL P
	DM	0.14	Dryopteris marginalis 'Leatherwood Fern'	P PL ORNAMENT T GAL P
	EP	0.48	Echinacea pallida 'Pale Coneflower'	P PL ORNAMENT T GAL P
	SD	0.22	Stylophorum diphyllum 'Celandine Poppy'	P PL ORNAMENT T GAL P
	SN	0.11	Sorghastrum nutans 'Indian Grass'	P PL ORNAMENT T 3G P
	SS	0.07	Schizachyrim scoparium 'Little Blue Stem'	P PL ORNAMENT T 3G P

NOTE: "PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT" AND "PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT" ARE PAID FOR AS 100 POTS PER UNIT





SIDEWALK DETAIL

NOT TO SCALE

FILE NAME = ...\14-Landscaping\2563_LSC_03.dgn	USER NAME = dte	DESIGNED - KTK	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - DTE	REVISED -	
	PLOT SCALE = 50.0000 ' / in.	CHECKED - GAB	REVISED -	
	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

LANDSCAPING PLAN – PLANT MATERIAL LIST

SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	70
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300 mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

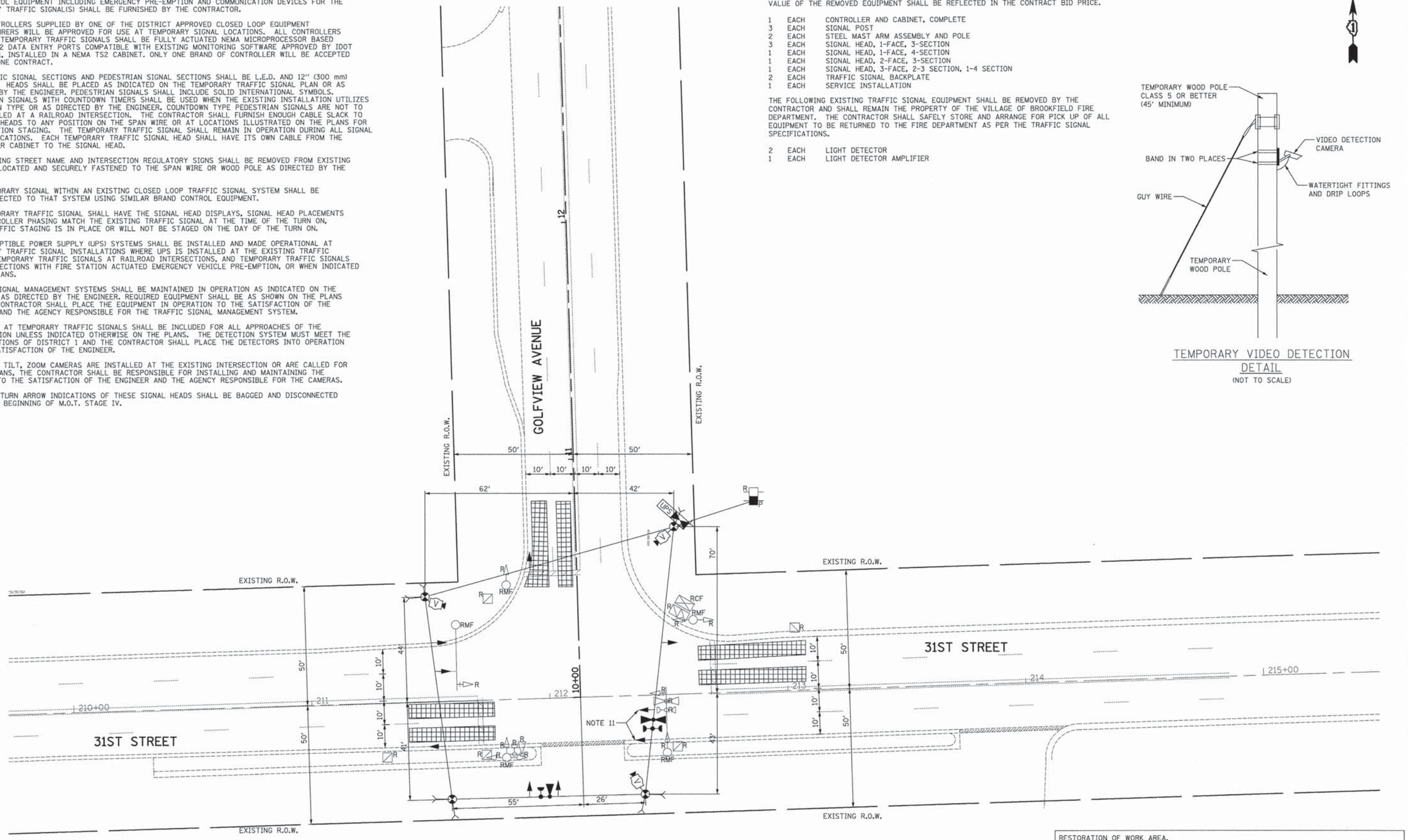
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

11. THE LEFT TURN ARROW INDICATIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED UNTIL THE BEGINNING OF M.O.T. STAGE IV.



THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET, COMPLETE
3	EACH	SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 4-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-4 SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD FIRE DEPARTMENT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE FIRE DEPARTMENT AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

TEMPORARY VIDEO DETECTION DETAIL
(NOT TO SCALE)

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

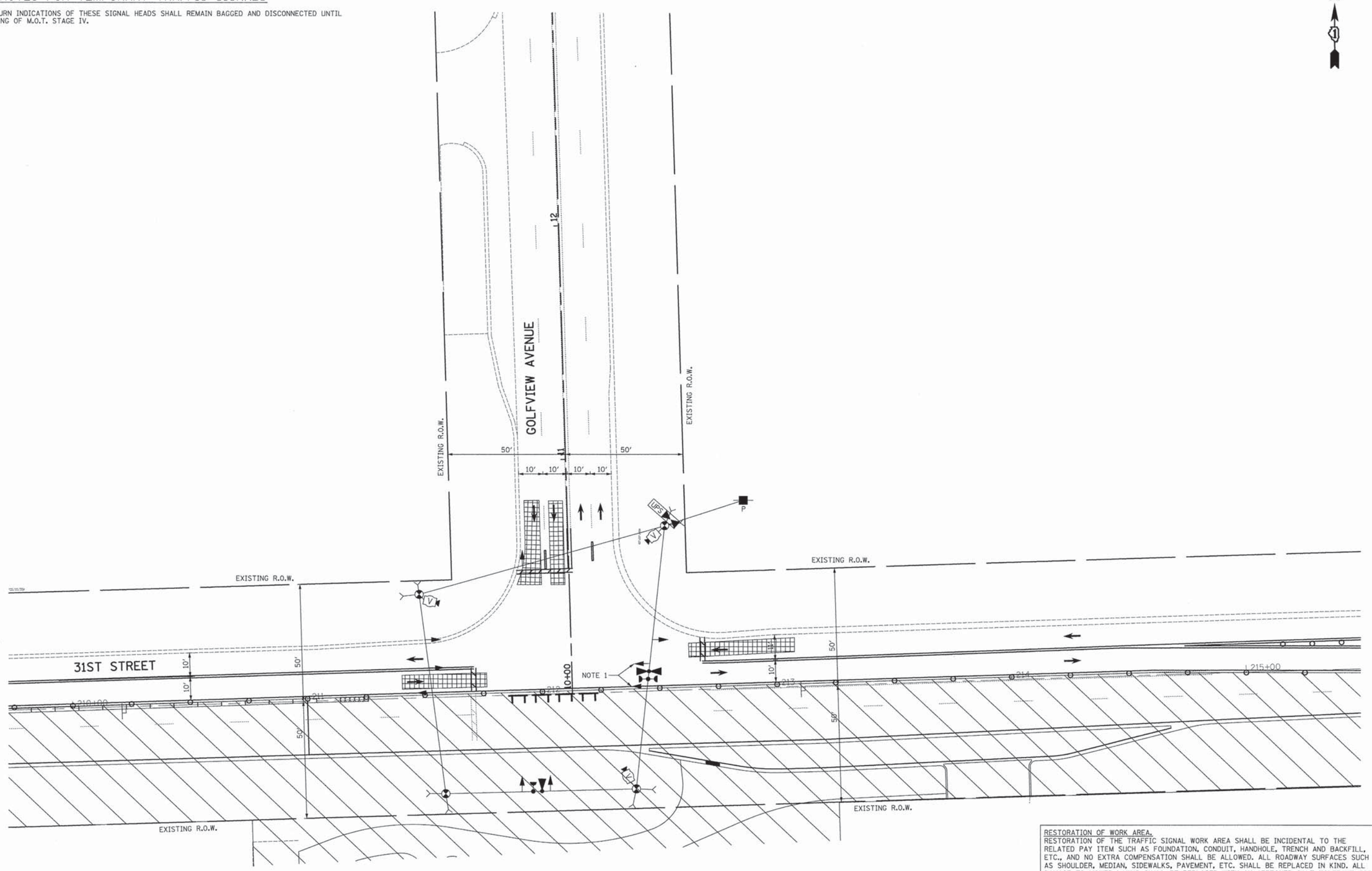
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
GOLFVIEW AVENUE AT 31ST STREET – EXISTING CONDITIONS

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	71
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. THE LEFT TURN INDICATIONS OF THESE SIGNAL HEADS SHALL REMAIN BAGGED AND DISCONNECTED UNTIL THE BEGINNING OF M.O.T. STAGE IV.



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

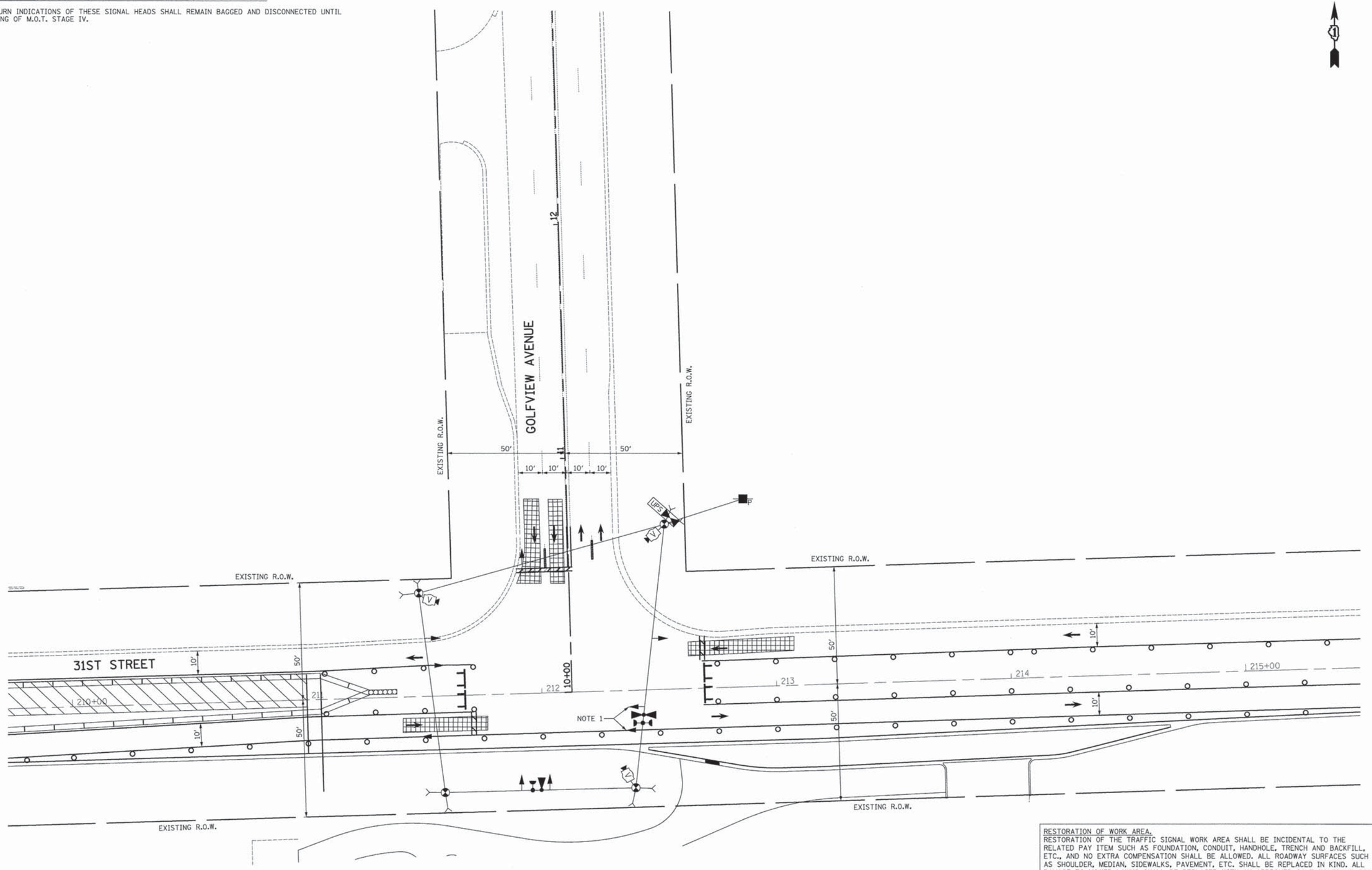
TEMPORARY TRAFFIC SIGNAL STAGING PLAN
GOLFVIEW AVENUE AT 31ST STREET – M.O.T. STAGE I

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	72
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. THE LEFT TURN INDICATIONS OF THESE SIGNAL HEADS SHALL REMAIN BAGGED AND DISCONNECTED UNTIL THE BEGINNING OF M.O.T. STAGE IV.



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

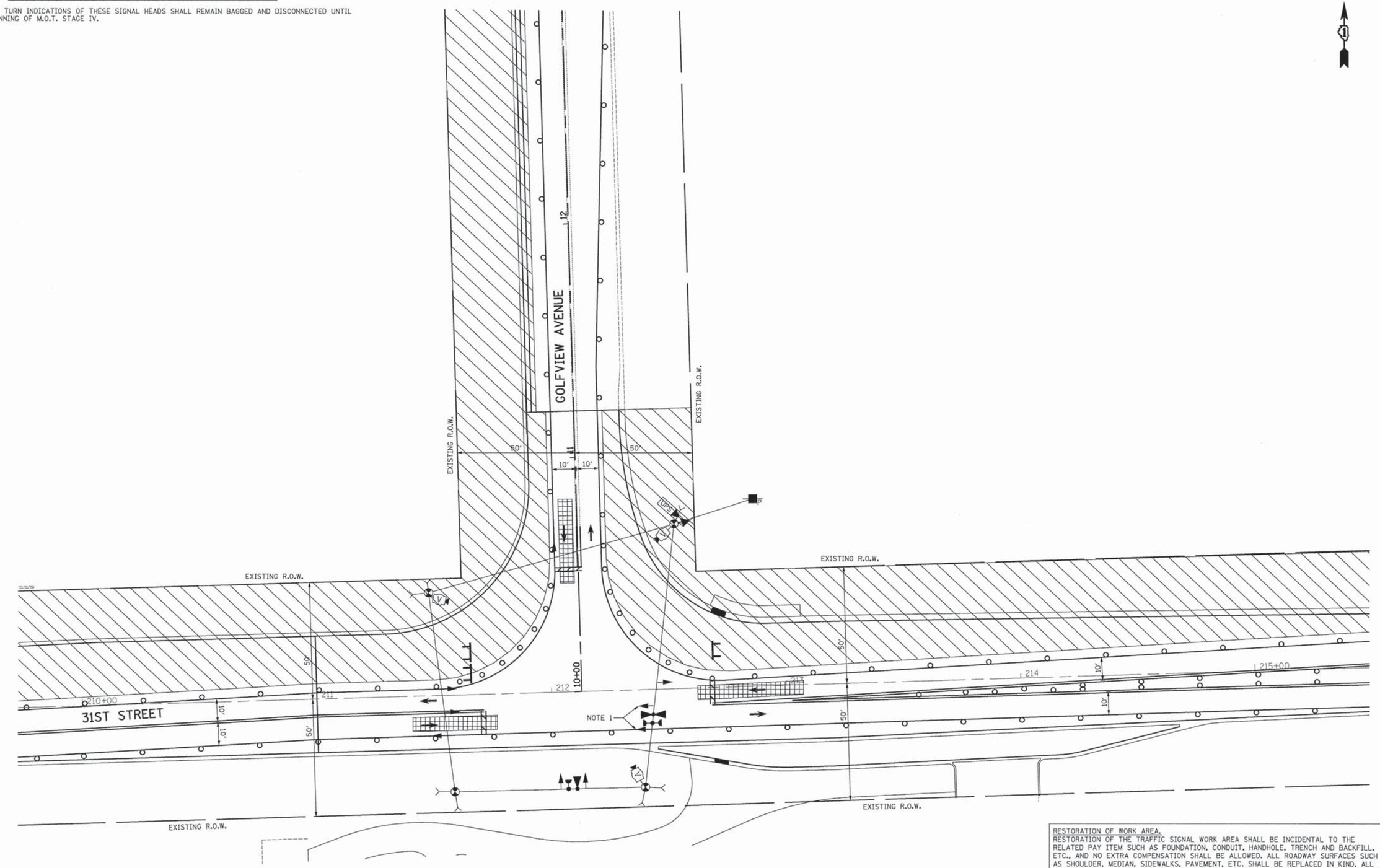
TEMPORARY TRAFFIC SIGNAL STAGING PLAN
GOLFVIEW AVENUE AT 31ST STREET – M.O.T. STAGE II

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	73
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. THE LEFT TURN INDICATIONS OF THESE SIGNAL HEADS SHALL REMAIN BAGGED AND DISCONNECTED UNTIL THE BEGINNING OF M.O.T. STAGE IV.



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

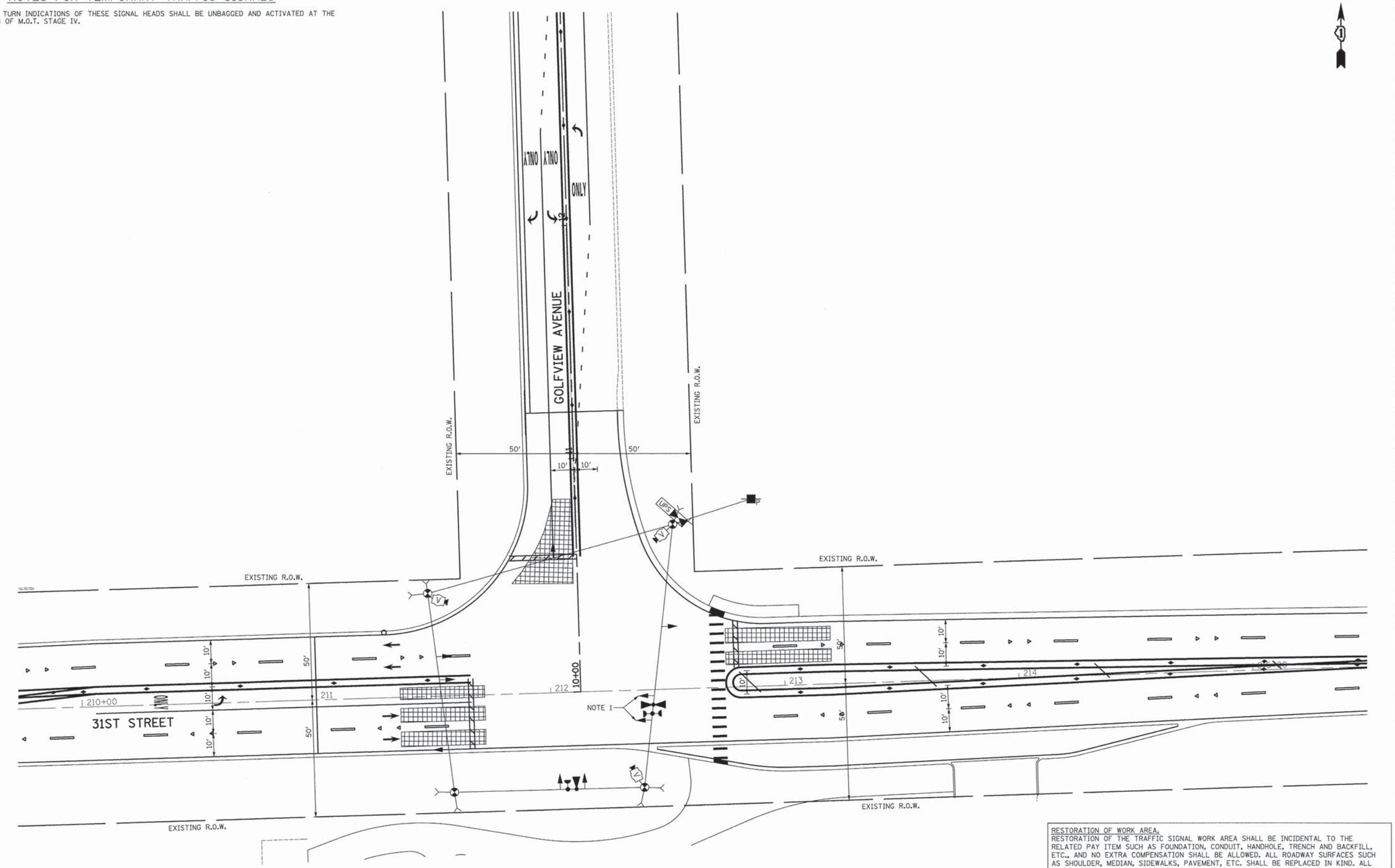
TEMPORARY TRAFFIC SIGNAL STAGING PLAN
GOLFVIEW AVENUE AT 31ST STREET – M.O.T. STAGE III

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	74
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. THE LEFT TURN INDICATIONS OF THESE SIGNAL HEADS SHALL BE UNBAGGED AND ACTIVATED AT THE BEGINNING OF M.O.T. STAGE IV.



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

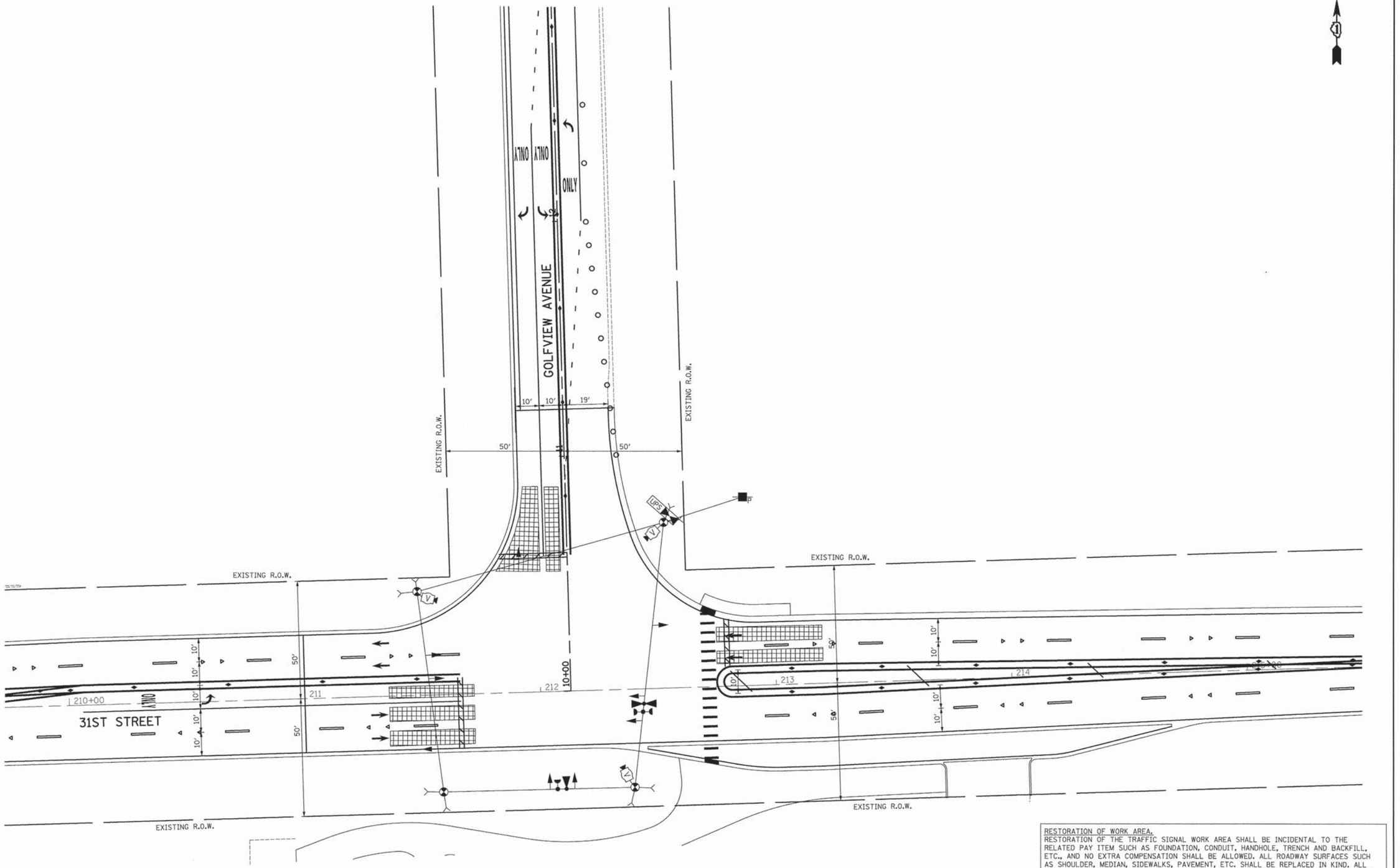
USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL STAGING PLAN
GOLFVIEW AVENUE AT 31ST STREET – M.O.T. STAGE IV

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	75
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

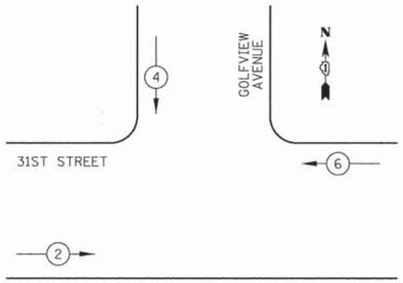
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL STAGING PLAN
GOLFVIEW AVENUE AT 31ST STREET – M.O.T. STAGE V

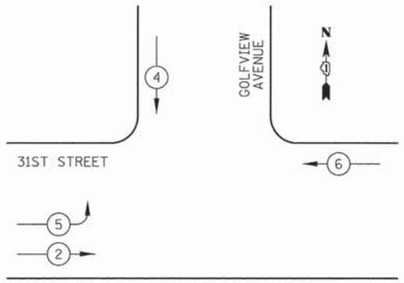
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	76
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TEMPORARY
CONTROLLER SEQUENCE
M.O.T. STAGES I-III



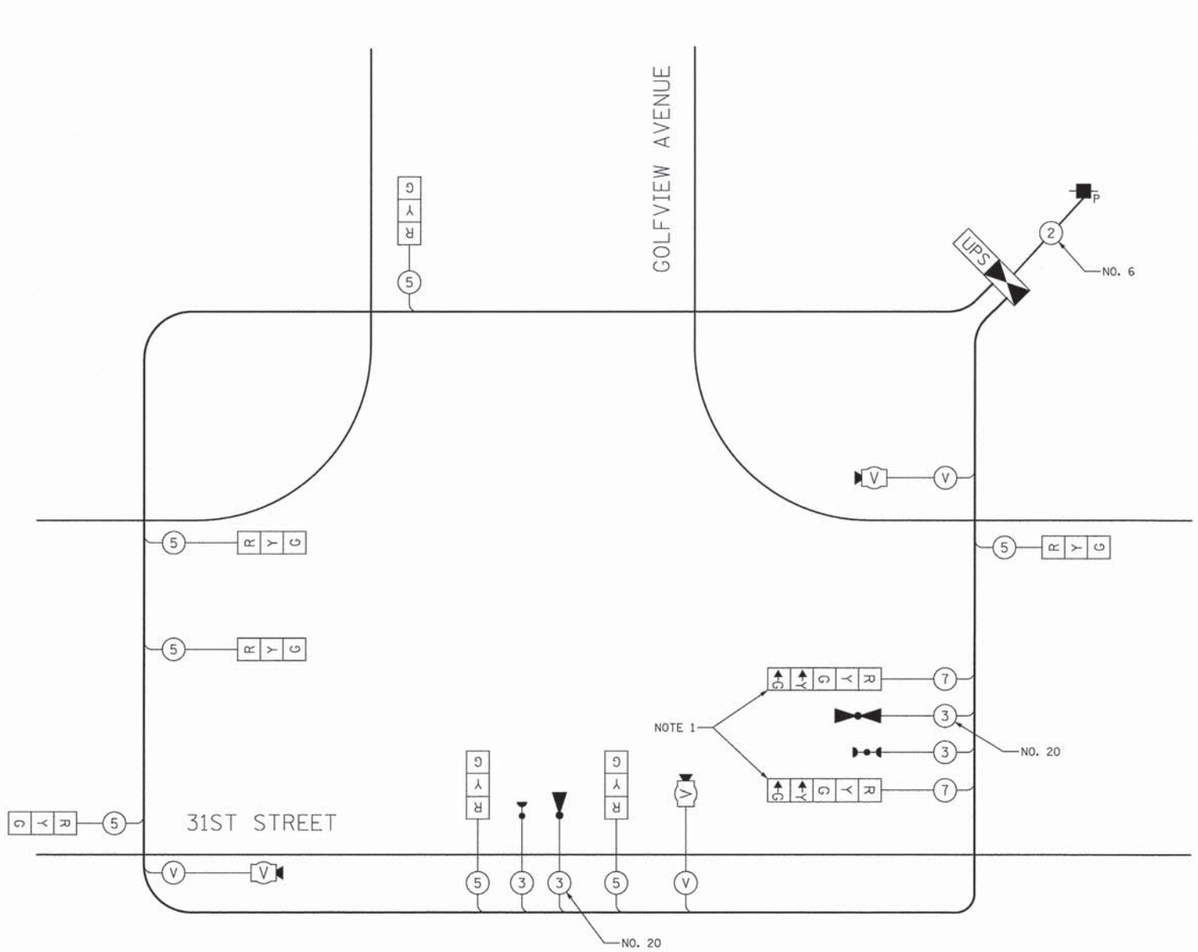
TEMPORARY
CONTROLLER SEQUENCE
M.O.T. STAGES IV-V



LEGEND

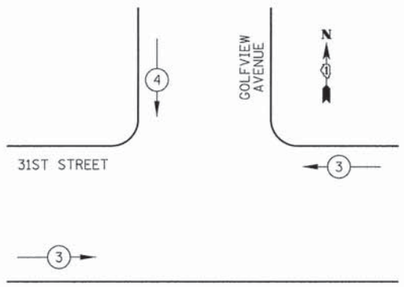
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY
PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN
NOT TO SCALE

TEMPORARY EMERGENCY
VEHICLE PREEMPTION SEQUENCE
M.O.T. STAGES I-V



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	9		17	0.50	77
(YELLOW)	9		25	0.25	56
(GREEN)	9		15	0.25	34
ARROW	4		12	0.10	5
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	422

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: JENNIFER BERTHOLD
PHONE: (708) 410-5314
COMPANY: COM ED

TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

TEMPORARY CABLE PLAN NOTES

1. THE LEFT TURN ARROW SECTIONS OF THESE SIGNAL HEADS SHALL REMAIN BAGGED AND DISCONNECTED UNTIL THE BEGINNING OF M.O.T. STAGE IV.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
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PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

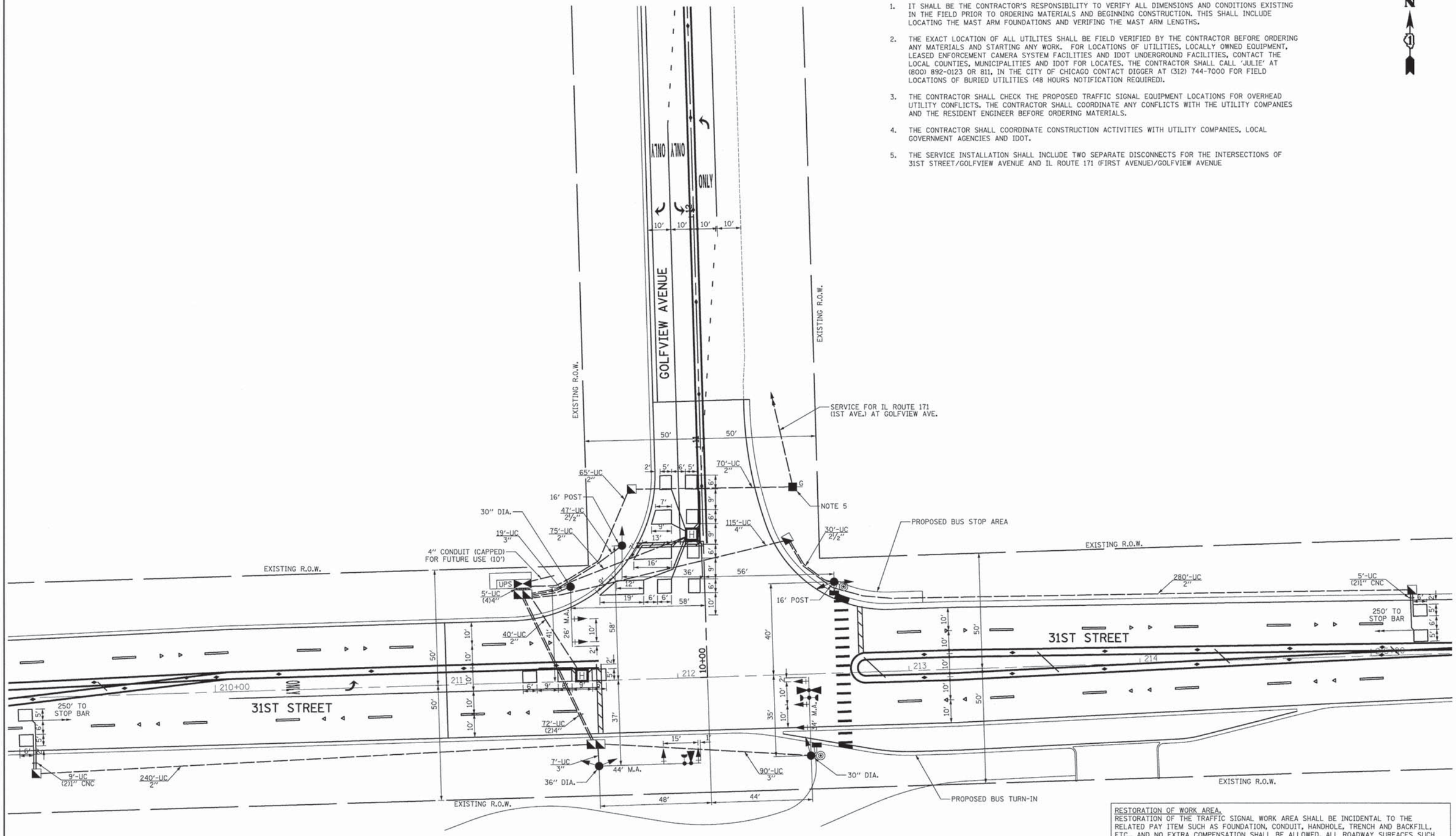
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAMS, & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCES
GOLFVIEW AVENUE AT 31ST STREET

NO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	77
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFING THE MAST ARM LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. THE SERVICE INSTALLATION SHALL INCLUDE TWO SEPARATE DISCONNECTS FOR THE INTERSECTIONS OF 31ST STREET/GOLFVIEW AVENUE AND IL ROUTE 171 (FIRST AVENUE)/GOLFVIEW AVENUE



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

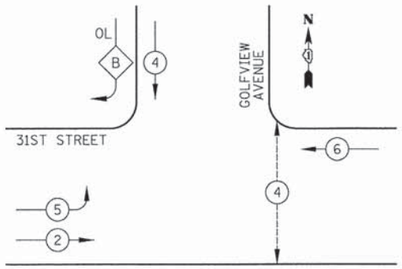
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GOLFVIEW AVENUE AT 31ST STREET

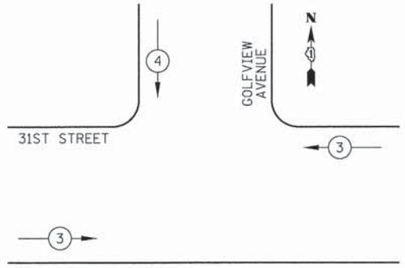
SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	78
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- • — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

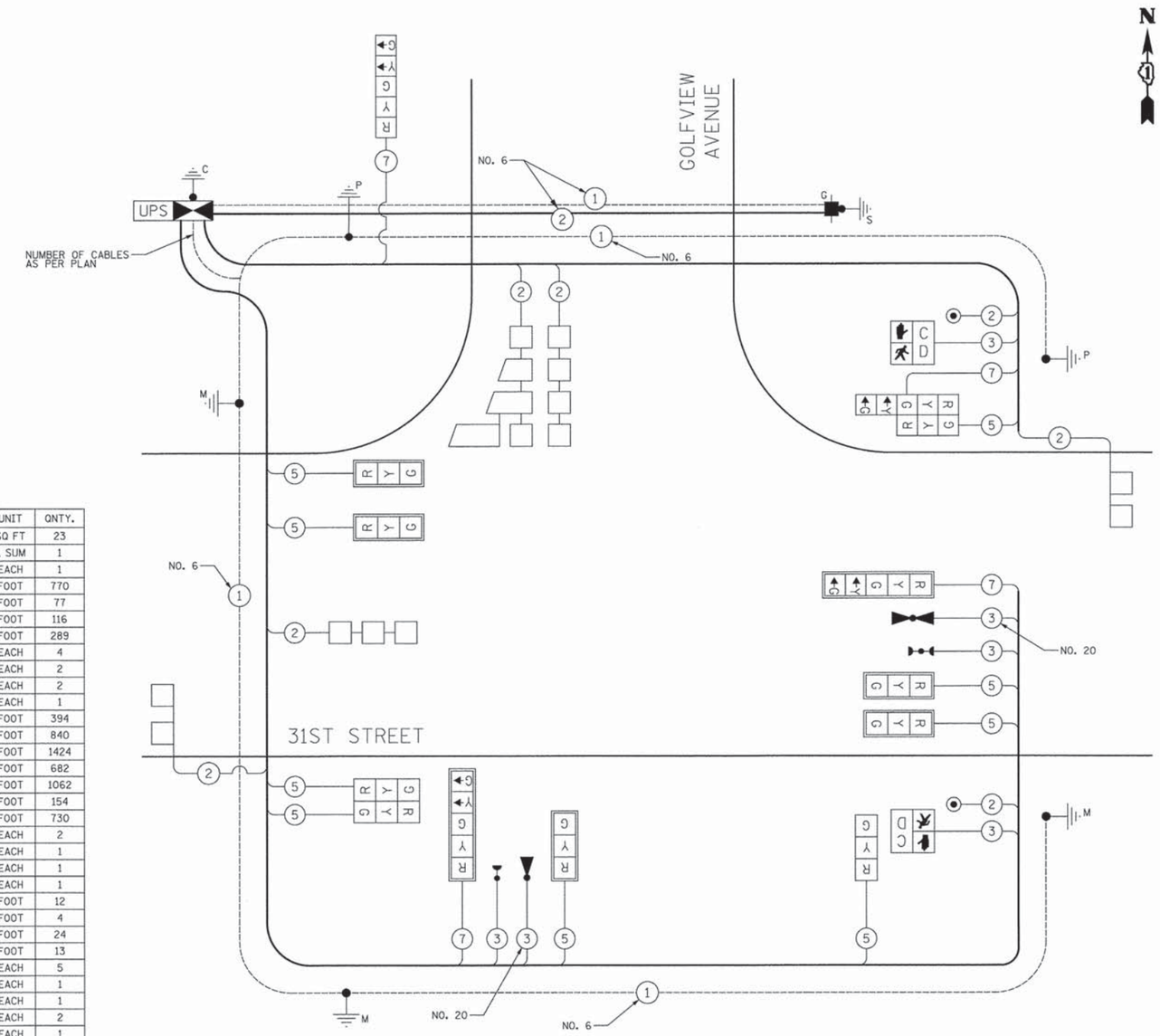
OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓

SCHEDULE OF QUANTITIES

	PAY ITEM	UNIT	QNTY.
	SIGN PANEL - TYPE 1	SQ FT	23
	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	770
	UNDERGROUND CONDUIT, GALVANIZED STEEL 2 1/2" DIA.	FOOT	77
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	116
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	289
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	FULL-ACTUATED CONTROLLLER AND TYPE IV CABINET	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	394
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	840
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1424
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	682
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1062
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	154
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	730
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	7
	INDUCTIVE LOOP DETECTOR	EACH	5
	DETECTOR LOOP, TYPE I	FOOT	577
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	2
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	5
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	432
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO VILLAGE OF BROOKFIELD FIRE DEPARTMENT



CABLE PLAN
NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	13		17	0.50	111
(YELLOW)	13		25	0.25	81
(GREEN)	13		15	0.25	49
ARROW	8		12	0.10	10
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
				TOTAL =	401

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: JENNIFER BERTHOLD
PHONE: (708) 410-5314
COMPANY: COM ED

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
GOLFVIEW AVENUE AT 31ST STREET

NO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	79
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE L.E.D. AND 12" (300 mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

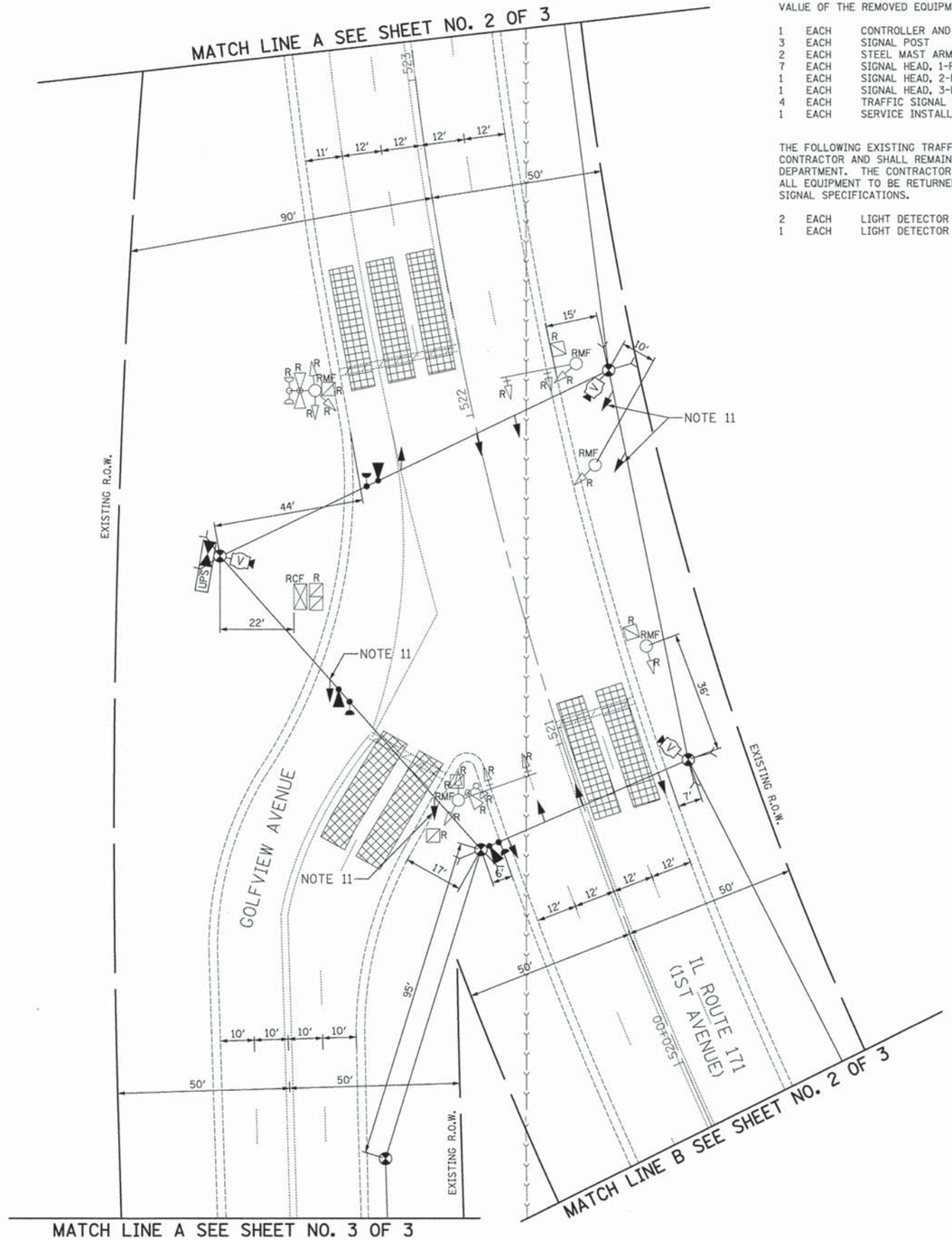
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

11. THE GOLFVIEW AVENUE APPROACH WILL BE CLOSED DURING M.O.T. STAGE V. DURING THIS STAGE, THE SIGNAL HEADS FOR GOLFVIEW AVENUE TRAFFIC WILL BE BAGGED AND THE IL ROUTE 176 SIGNAL INDICATIONS WILL REST IN GREEN.

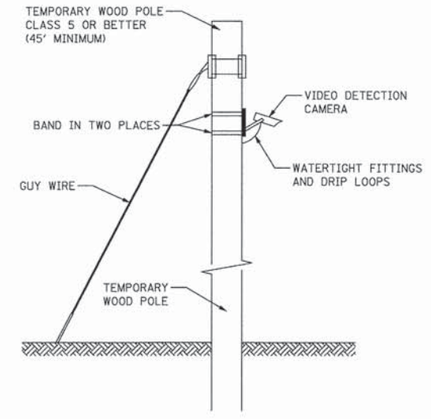


THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET, COMPLETE
3	EACH	SIGNAL POST
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
7	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
1	EACH	SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD FIRE DEPARTMENT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE FIRE DEPARTMENT AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER



TEMPORARY VIDEO DETECTION DETAIL
(NOT TO SCALE)

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

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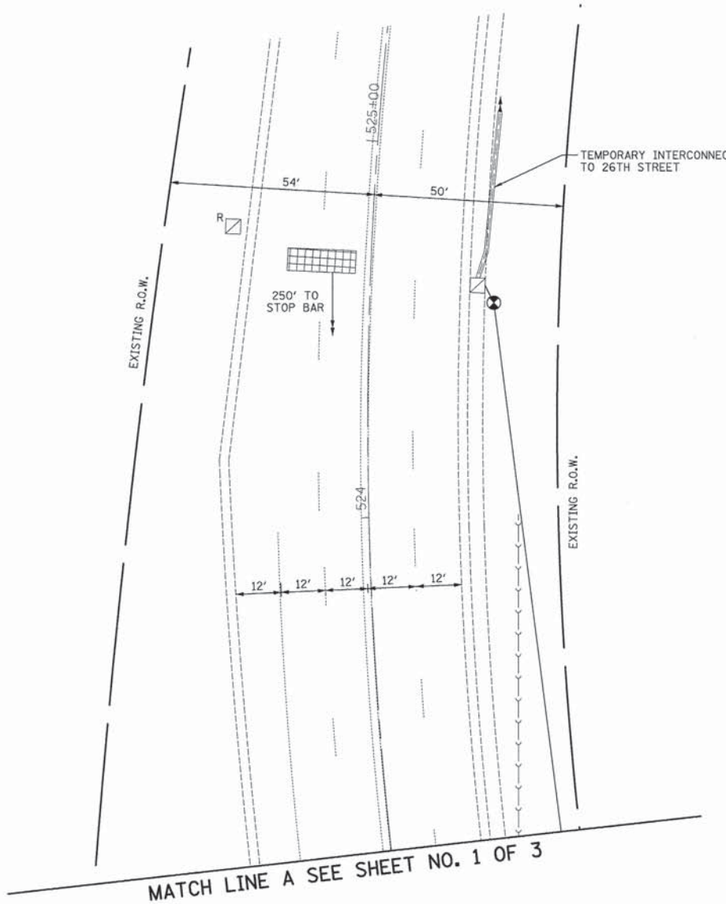
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

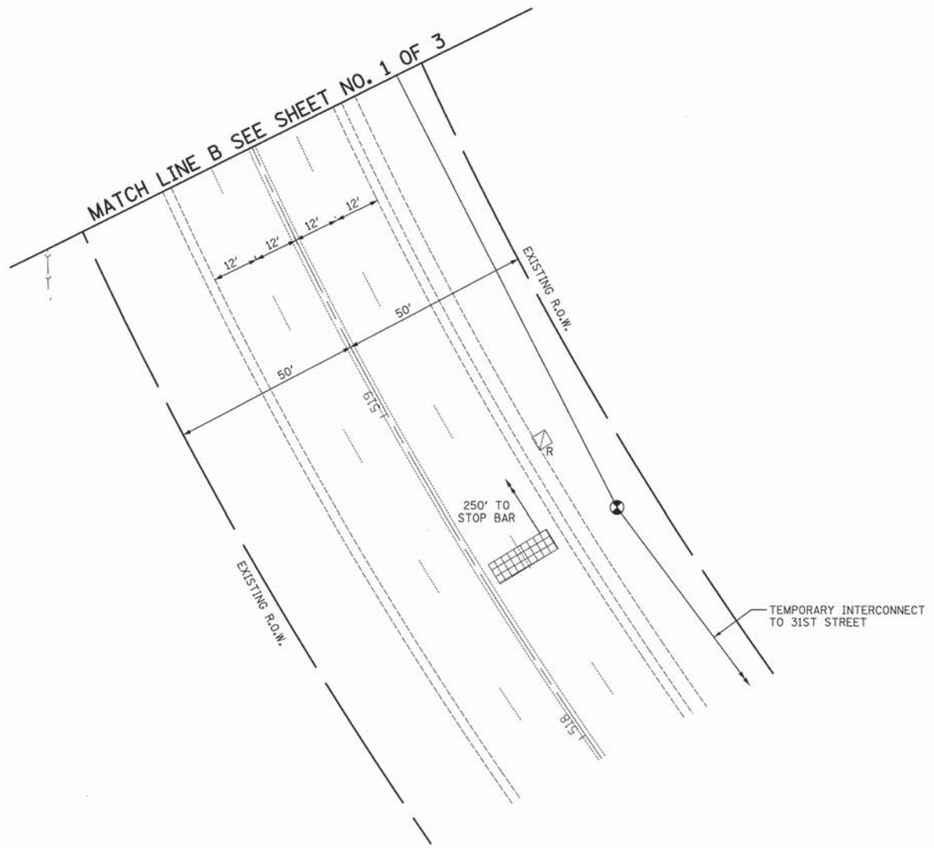
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) – M.O.T. STAGES I–V

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	80
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





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RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

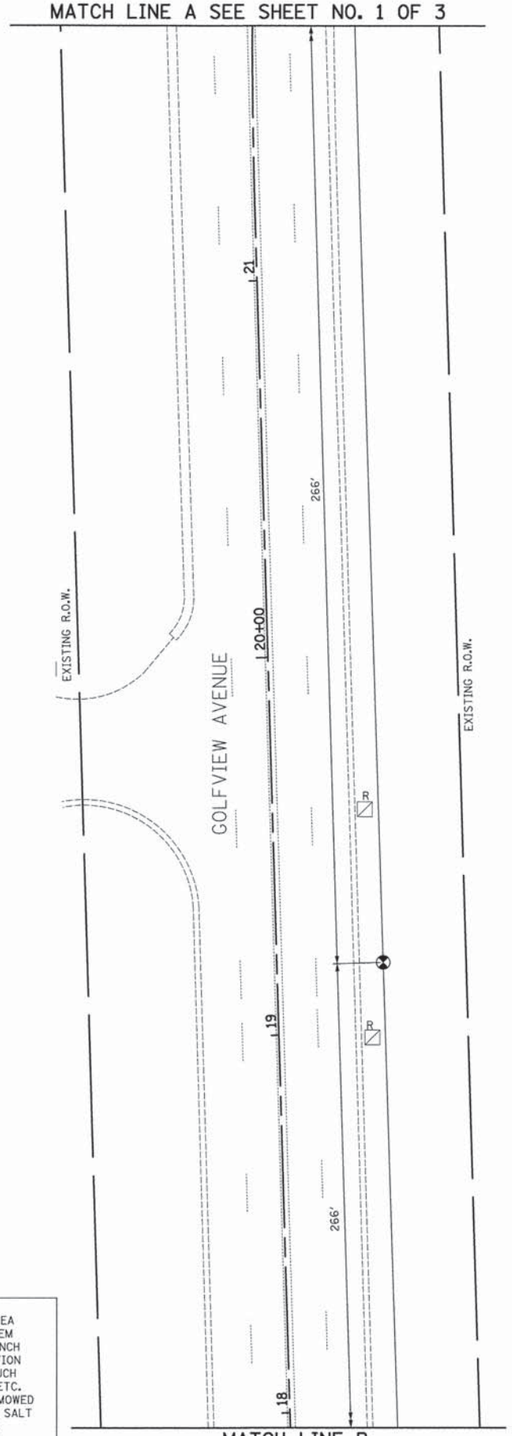
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) – M.O.T. STAGES I–V

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

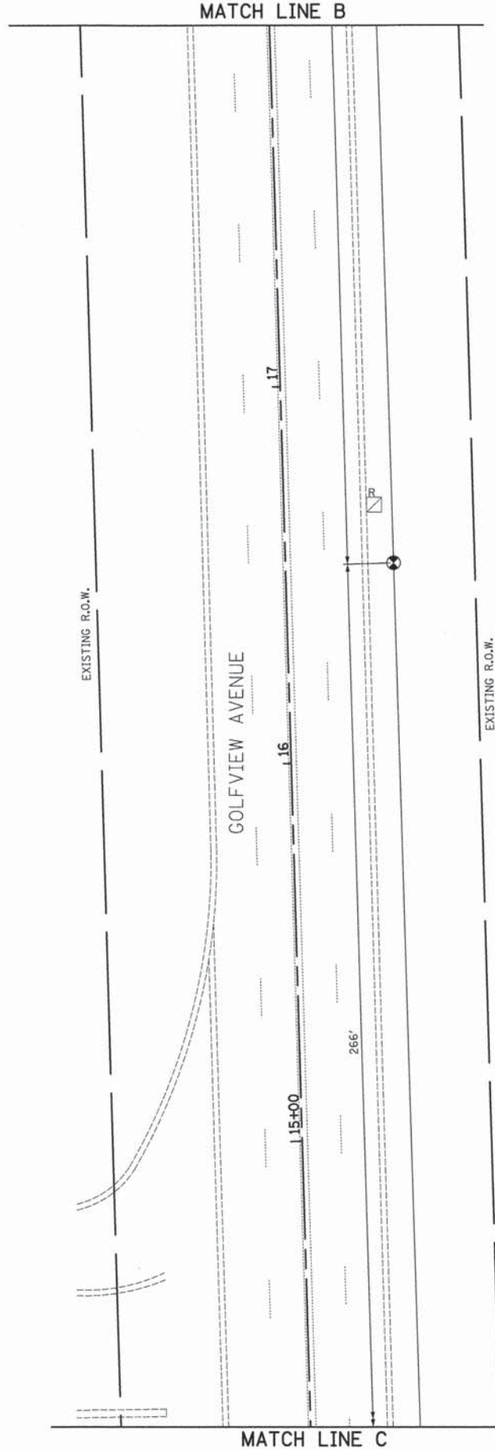
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	81
		CONTRACT NO. 63764		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

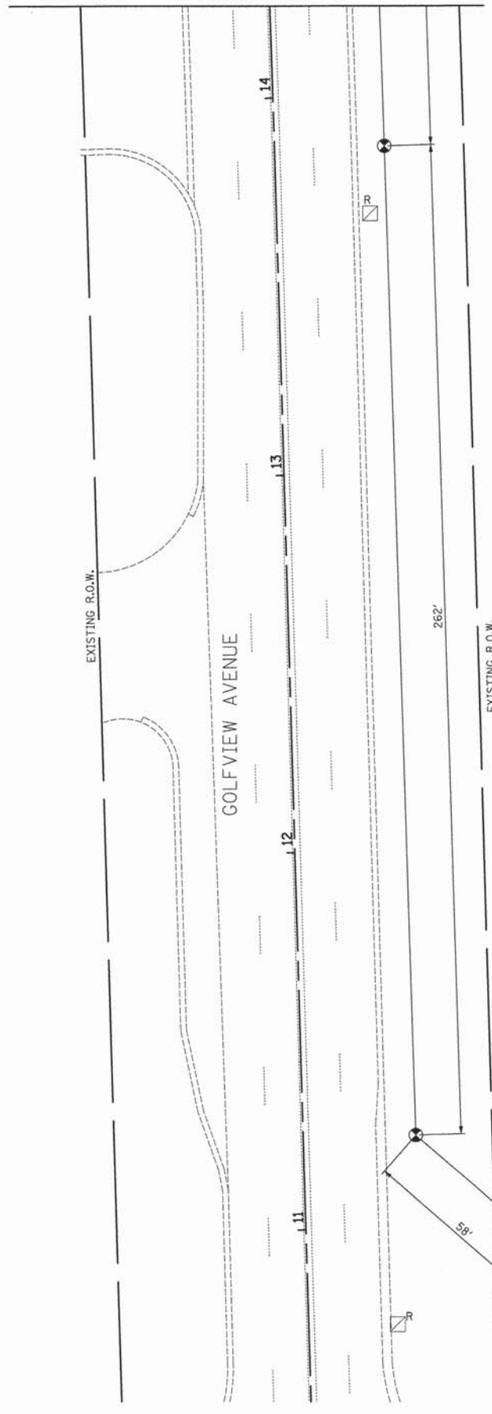
MATCH LINE A SEE SHEET NO. 1 OF 3



MATCH LINE B



MATCH LINE C



MATCH LINE B

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

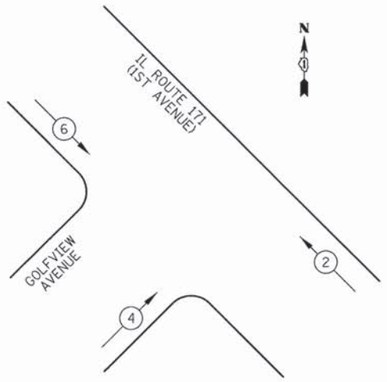
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) – STAGES I–V

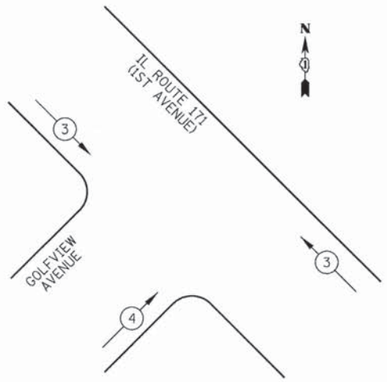
SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	82
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↙ ↗	↗

NOTE: EMERGENCY VEHICLE PREEMPTION WILL BE DISABLED DURING M.O.T. STAGE V DUE TO GOLFVIEW AVENUE CLOSURE.

LEGEND

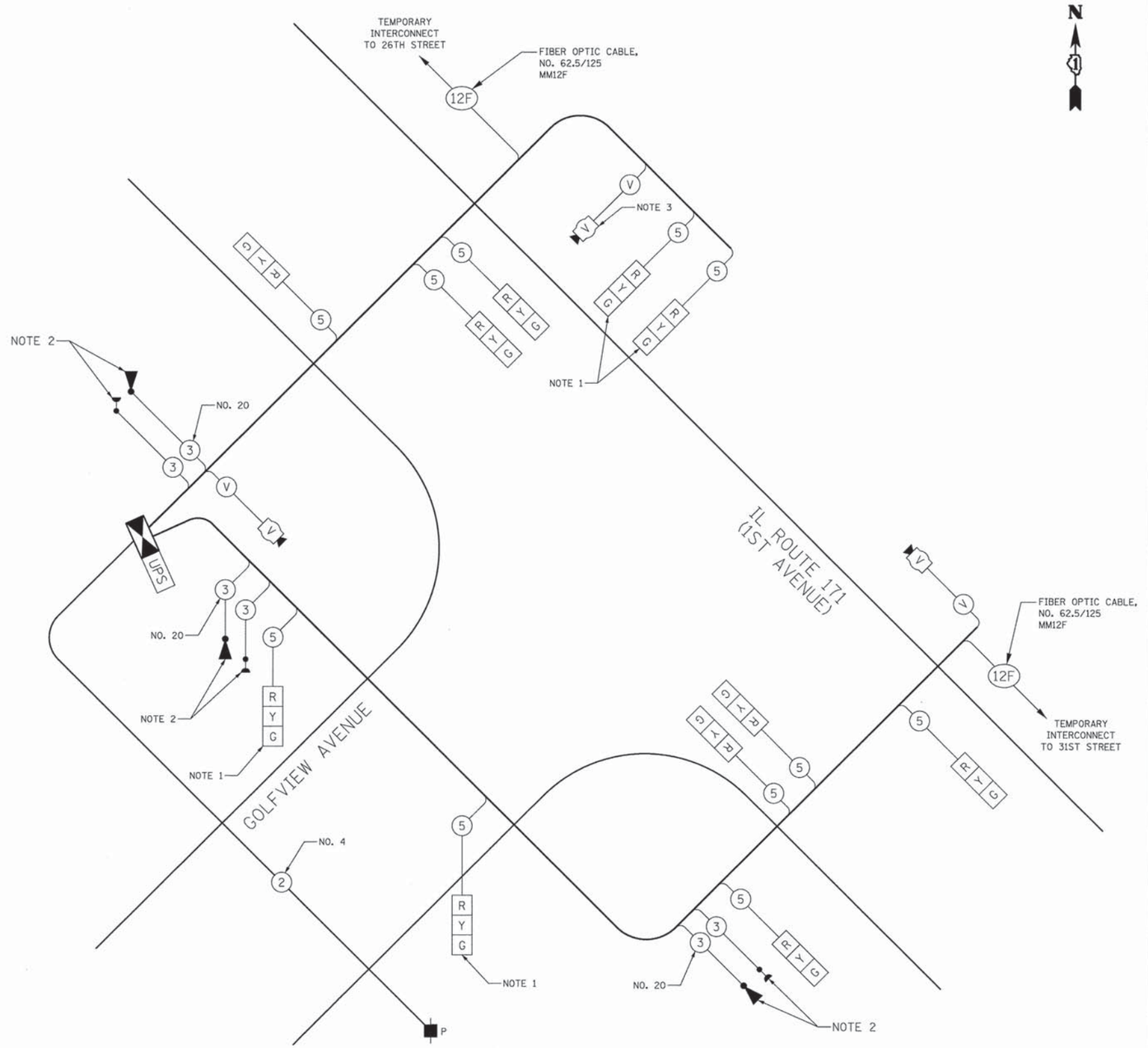
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

NOTE: SIGNAL WILL DWELL IN PHASE 2 & 6 GREEN DURING M.O.T. STAGE V DUE TO GOLFVIEW AVENUE CLOSURE.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	94
(YELLOW)	11		25	0.25	69
(GREEN)	11		15	0.25	42
CONTROLLER	1		100	1.00	100
VIDEO SYSTEM	1		150	1.00	150
FLASHER				0.50	
				TOTAL =	455

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: JENNIFER BERTHOLD
PHONE: (708) 410-5314
COMPANY: COM ED



TEMPORARY CABLE PLAN

NOT TO SCALE

CABLE PLAN NOTES

1. THESE SIGNAL HEADS SHALL BE DISCONNECTED DURING M.O.T. STAGE V.
2. THE EMERGENCY VEHICLE PREEMPTORS AND CONFIRMATION BEACONS SHALL BE DISCONNECTED DURING M.O.T. STAGE V.
3. THIS VIDEO DETECTOR SHALL BE DISCONNECTED DURING M.O.T. STAGE V. THE REMAINING VIDEO DETECTORS WILL REMAIN ACTIVE FOR PURPOSES OF SYSTEM DETECTION.

⚠ REPLACE ENTIRE SHEET

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED - 3-28-13 ⚠	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) – M.O.T. STAGES I–V

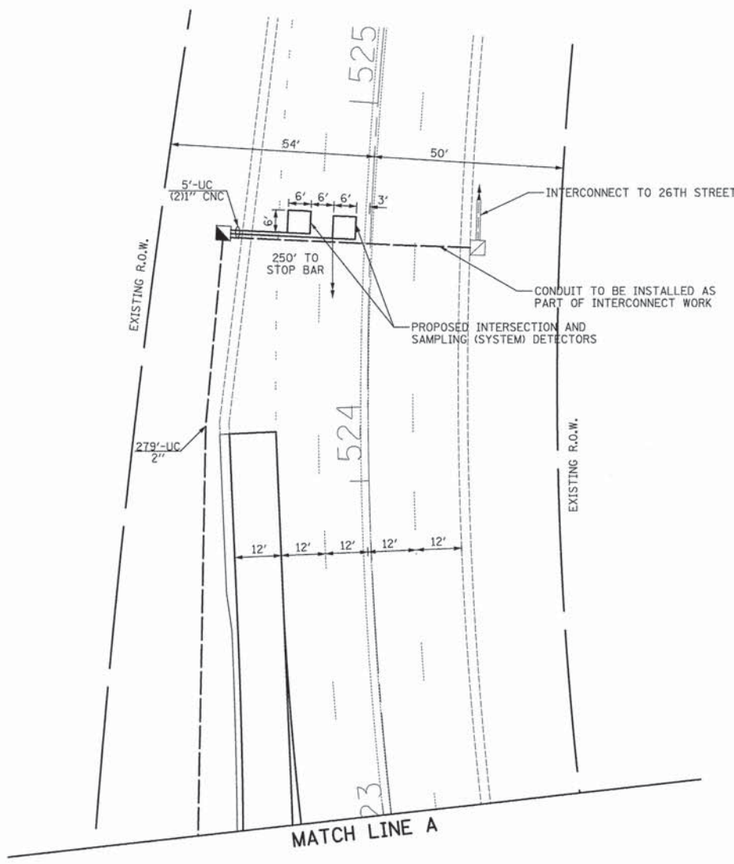
NO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

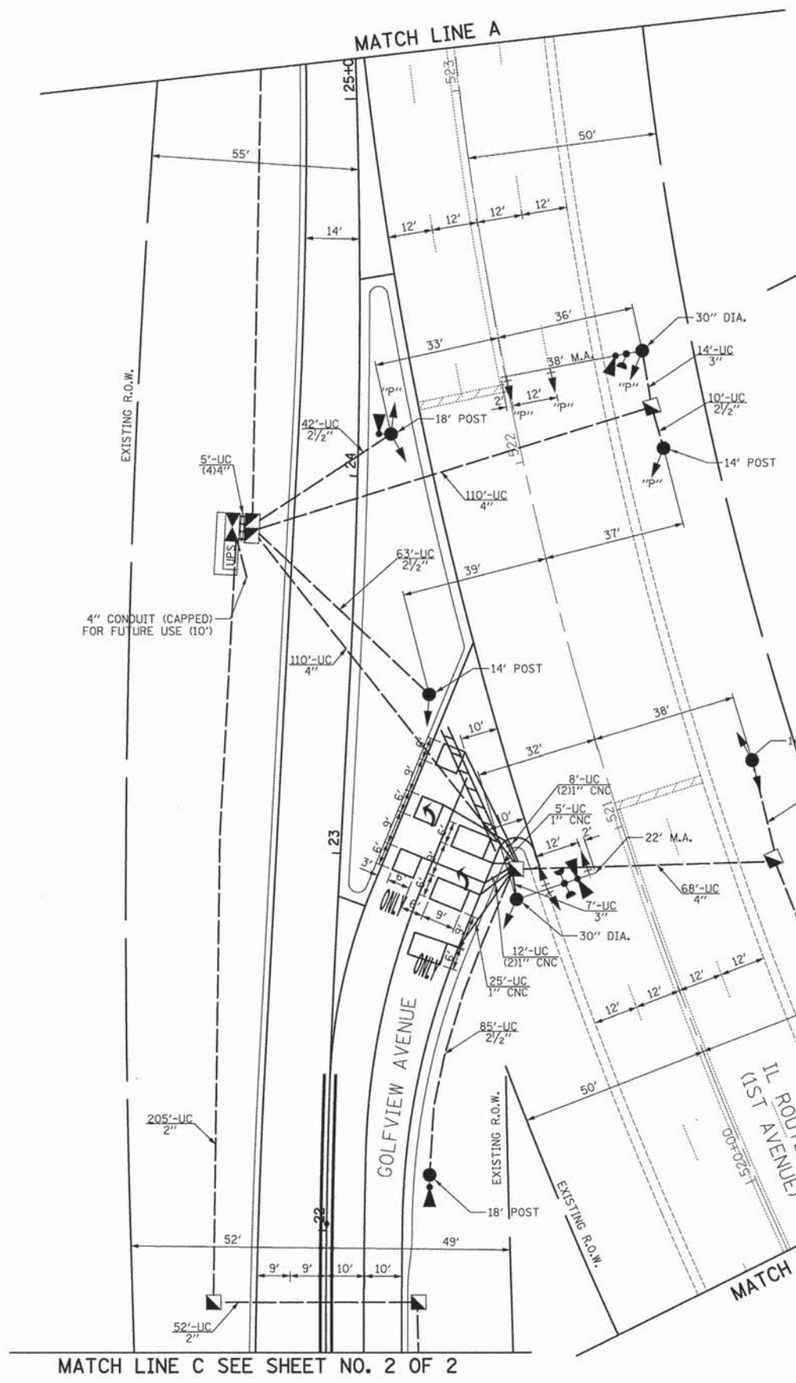
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	83
		CONTRACT NO. 63764		

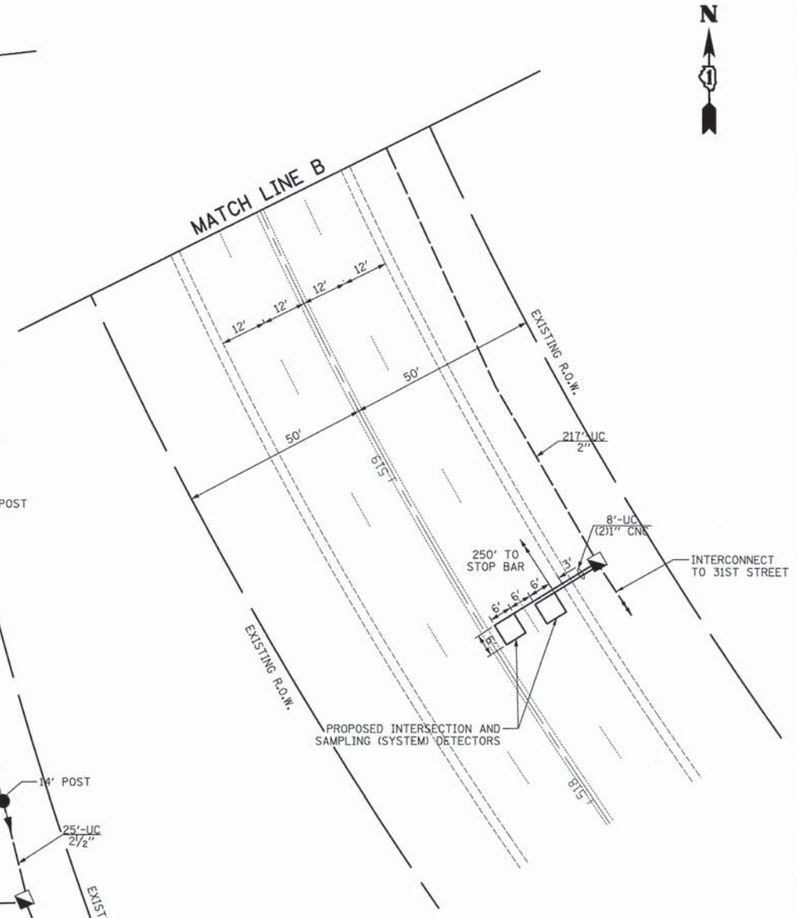
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

TRAFFIC SIGNAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFING THE MAST ARM LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
5. THE SERVICE INSTALLATION SHALL INCLUDE TWO SEPARATE DISCONNECTS FOR THE INTERSECTIONS OF 31ST STREET/GOLFVIEW AVENUE AND IL ROUTE 171 (FIRST AVENUE)/GOLFVIEW AVENUE.







RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
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CIVILTECH

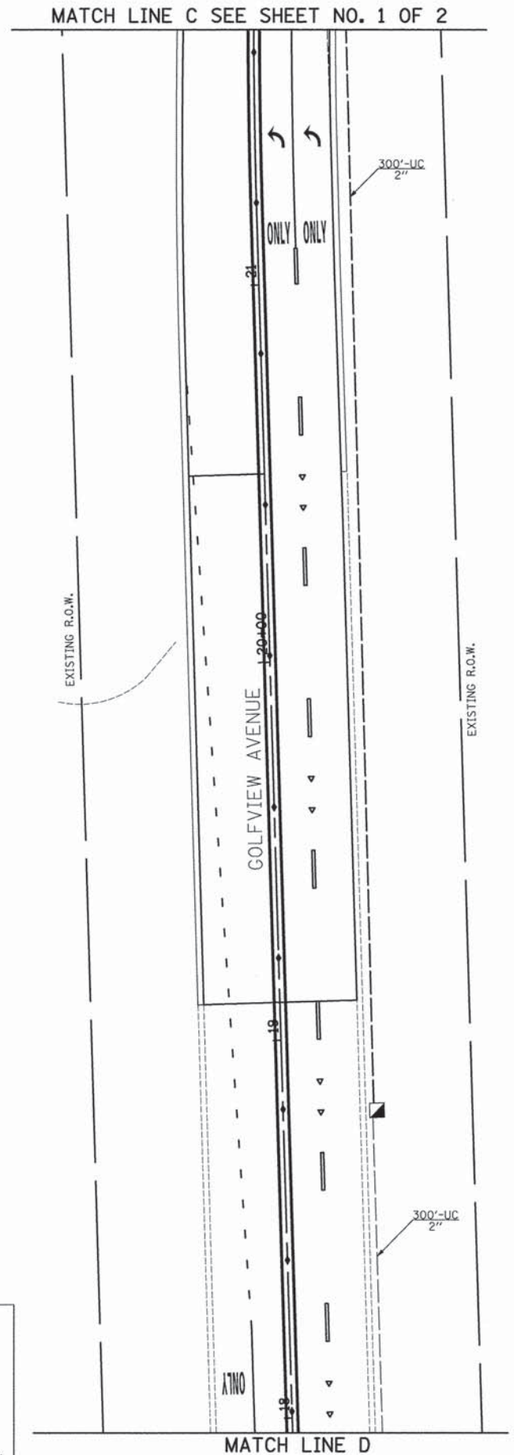
USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

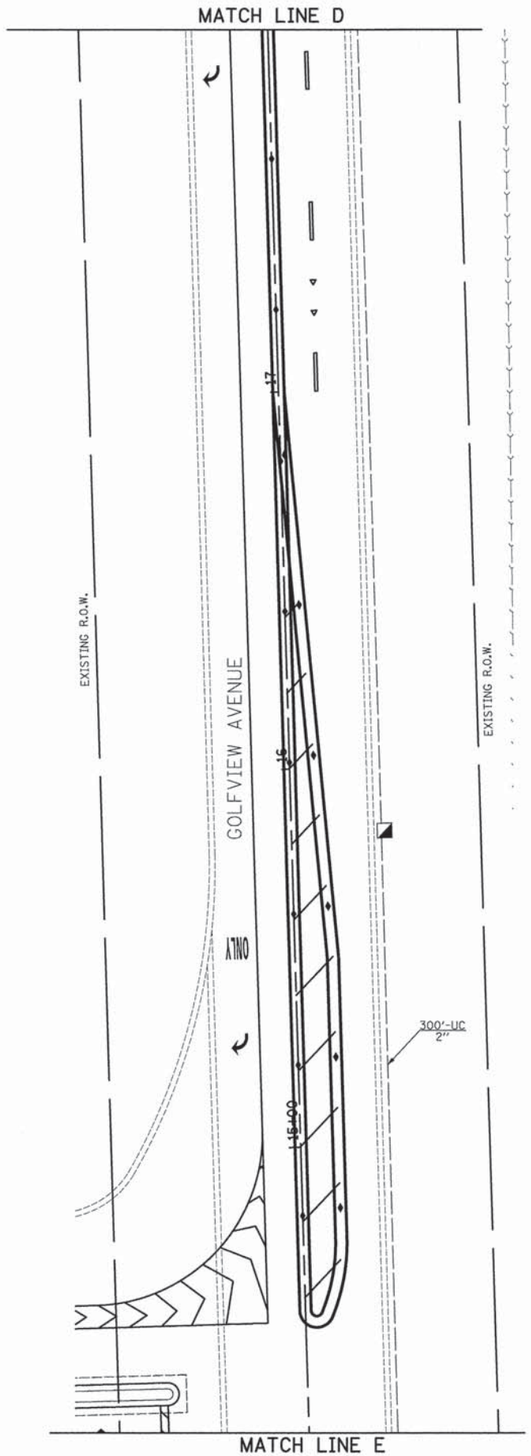
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

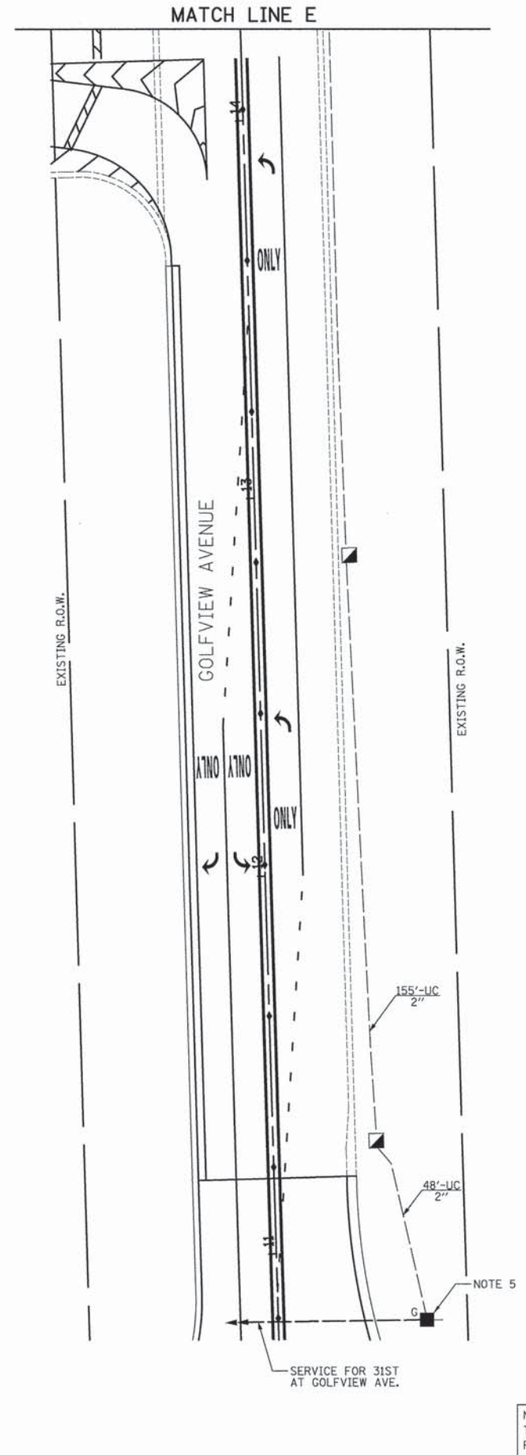
TRAFFIC SIGNAL MODERNIZATION
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE)

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	84
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		







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NOTE:
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CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

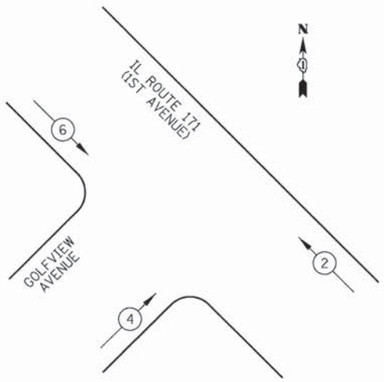
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE)

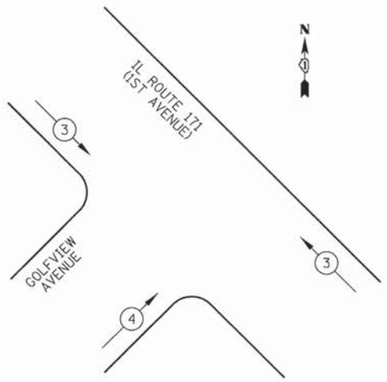
SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	85
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

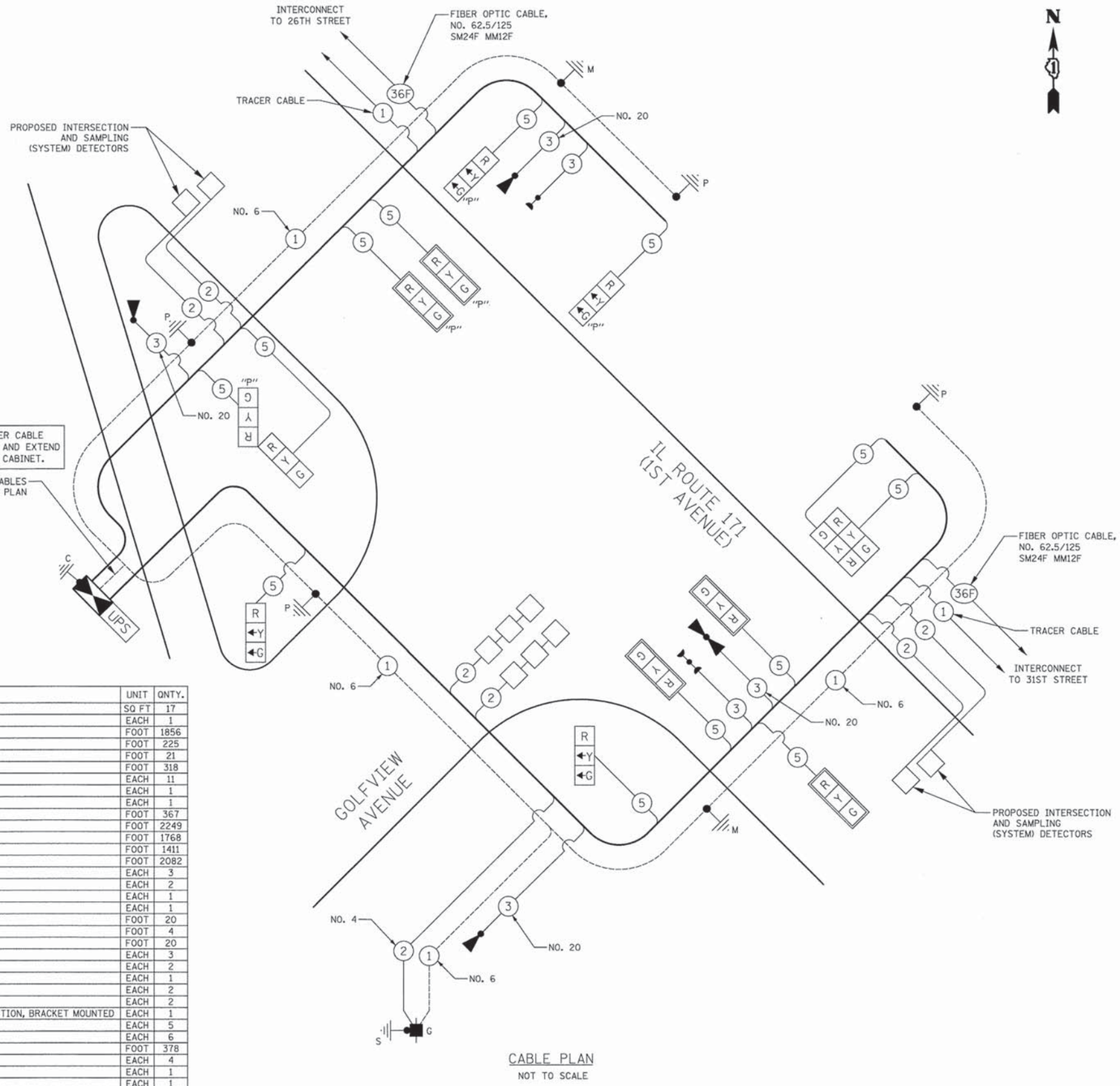
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NUMBER OF CABLES AS PER PLAN



SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	17
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	1856
UNDERGROUND CONDUIT, GALVANIZED STEEL 2 1/2" DIA.	FOOT	225
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	318
HANDHOLE	EACH	11
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	367
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2249
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1768
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	1411
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2082
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	378
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	702
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO VILLAGE OF BROOKFIELD FIRE DEPARTMENT

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	88
(GREEN)	14		15	0.25	53
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
			TOTAL =		359

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: JENNIFER BERTHOLD
PHONE: (708) 410-5314
COMPANY: COM ED

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

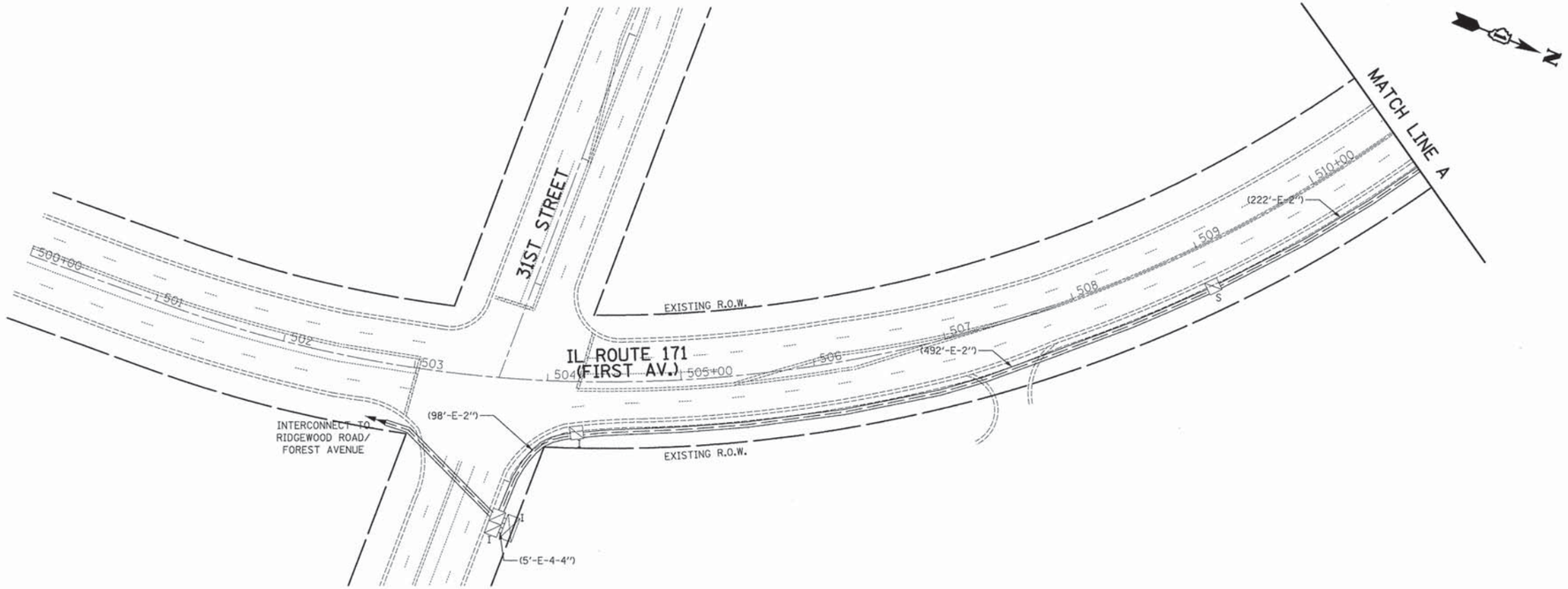
USER NAME = dte	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

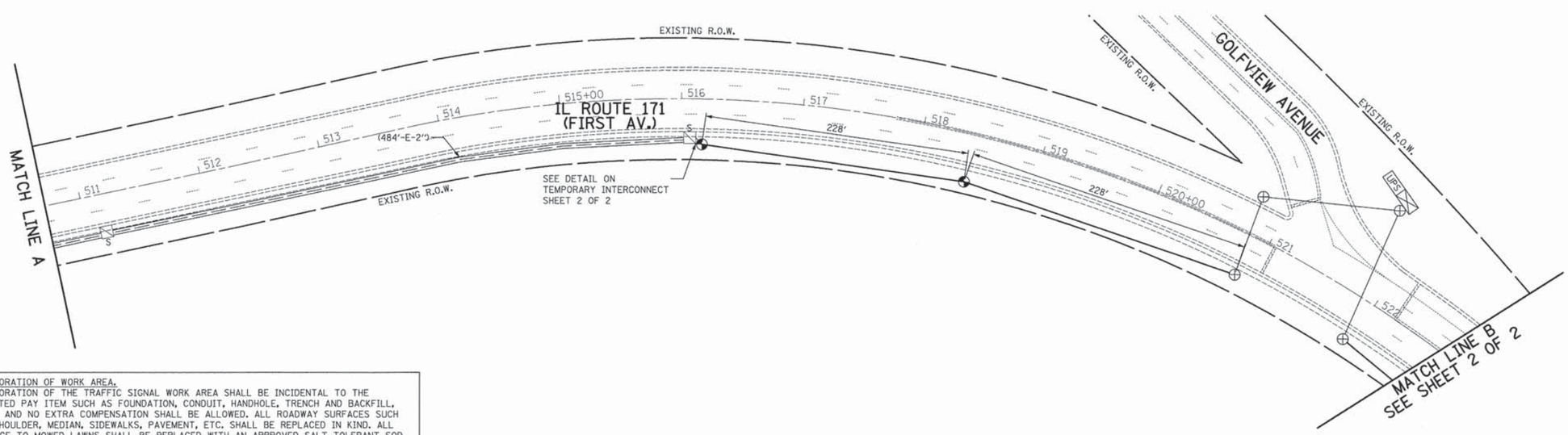
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE)

NO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	86
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





RESTORATION OF WORK AREA.
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NOTE:
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CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

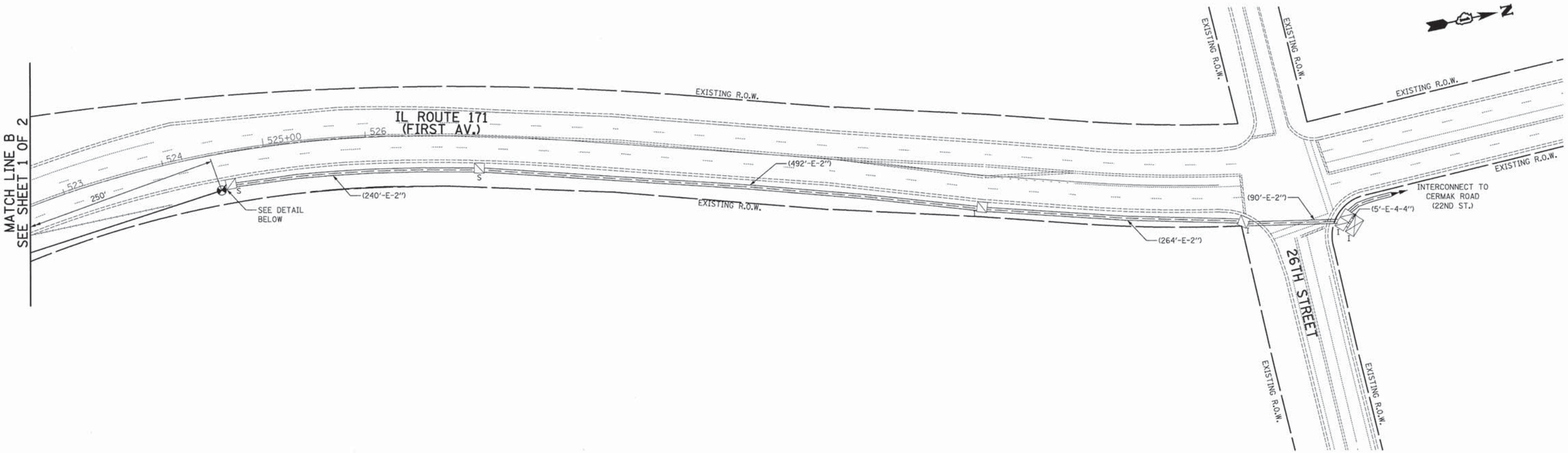
TEMPORARY INTERCONNECT PLAN
IL ROUTE 171 (1ST AVENUE)
31ST STREET TO 26TH STREET

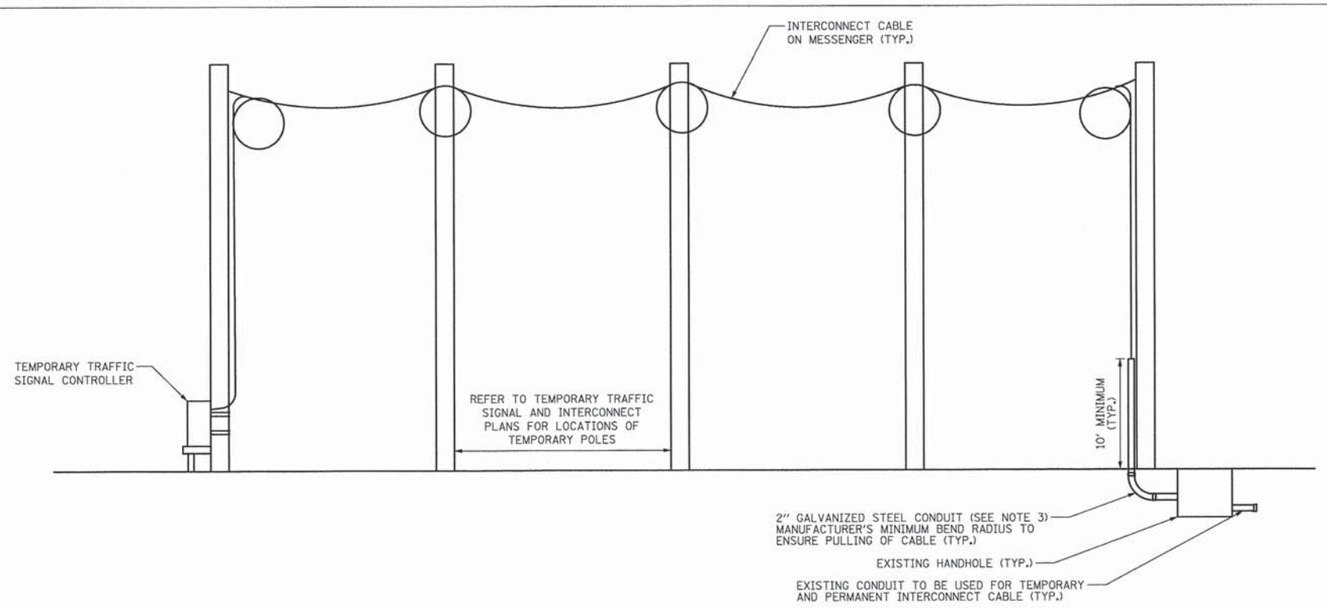
SCALE: 1" = 50' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	87

CONTRACT NO. 63764

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





IL ROUTE 171 (FIRST AVENUE)
AERIALLY SUPPORTED INTERCONNECT CABLE

(NOT TO SCALE)

TEMPORARY INTERCONNECT NOTES

1. TRANSFER OF EXISTING TO TEMPORARY INTERCONNECT CABLE AND TEMPORARY INTERCONNECT CABLE TO PROPOSED MUST BE COMPLETED IN ONE WORKING DAY DURING NON-PEAK HOURS OR AS DIRECTED BY THE ENGINEER.
2. AFTER THE PROPOSED INTERCONNECT IS TURNED ON AND OPERATING TO THE SATISFACTION OF THE ENGINEER, THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED.
3. THE 2" CONDUIT USED FOR THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED TO BELOW GRADE AND CAPPED AT THE TIME THE TEMPORARY INTERCONNECT IS REMOVED.
4. THE CONTRACTOR MUST NOTIFY THE IDOT SIGNAL SYSTEM ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE TRAFFIC SIGNAL INTERCONNECT.
5. ALL WORK AND MATERIALS INVOLVED IN THE INSTALLATION OF THE TEMPORARY INTERCONNECT AND ESTABLISHING SYSTEM OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE IDOT SIGNAL SYSTEM ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION."

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CIVILTECH

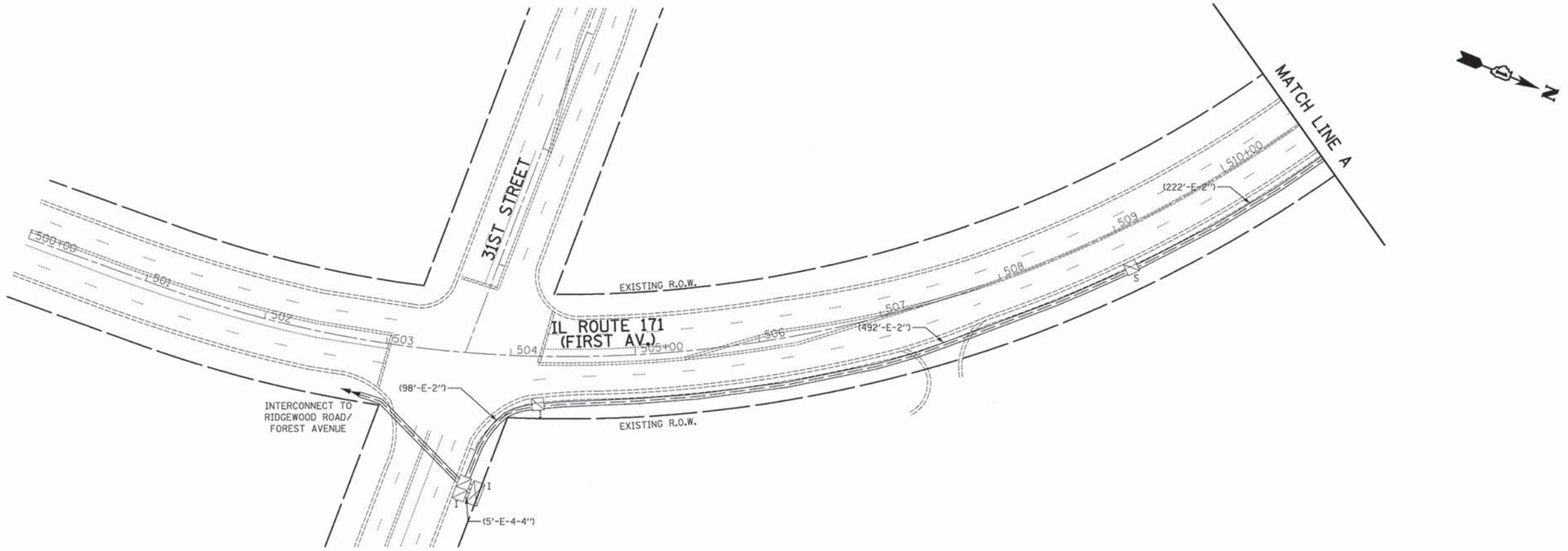
USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

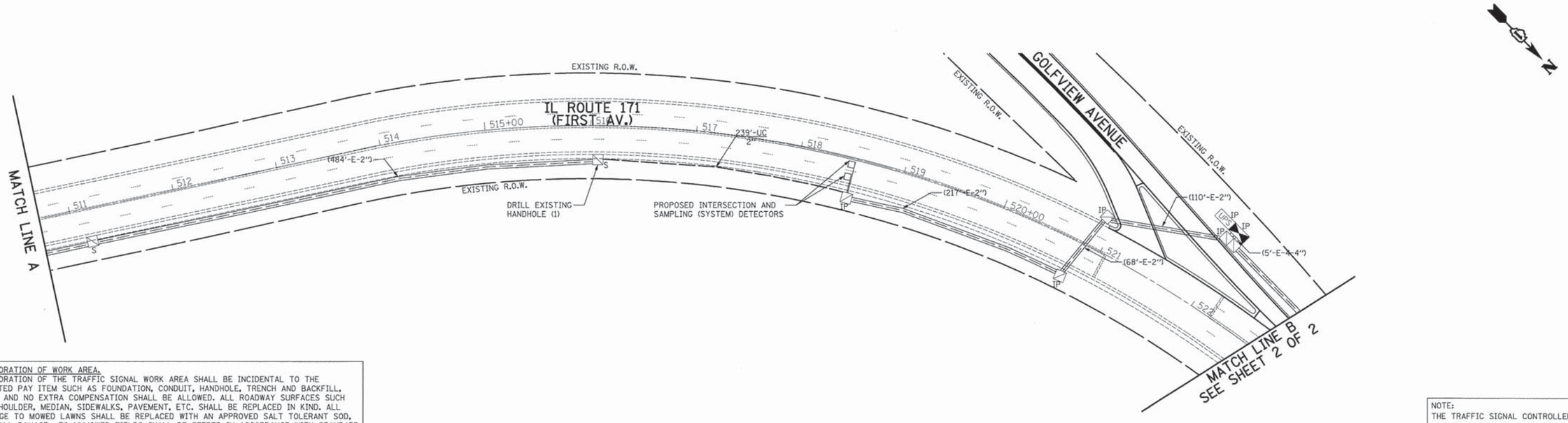
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
IL ROUTE 171 (1ST AVENUE)
31ST STREET TO 26TH STREET

SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	88
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

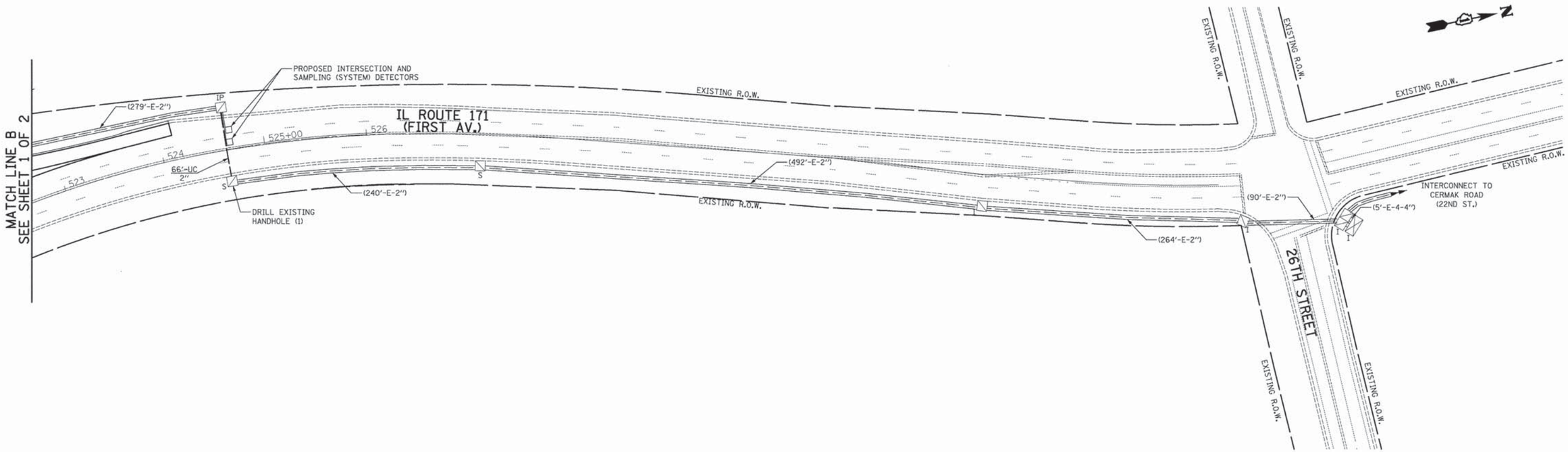
USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL ROUTE 171 (1ST AVENUE)
31ST STREET TO 26TH STREET

SCALE: 1" = 50' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	89
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



RESTORATION OF WORK AREA.
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SALT TOLERANT SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

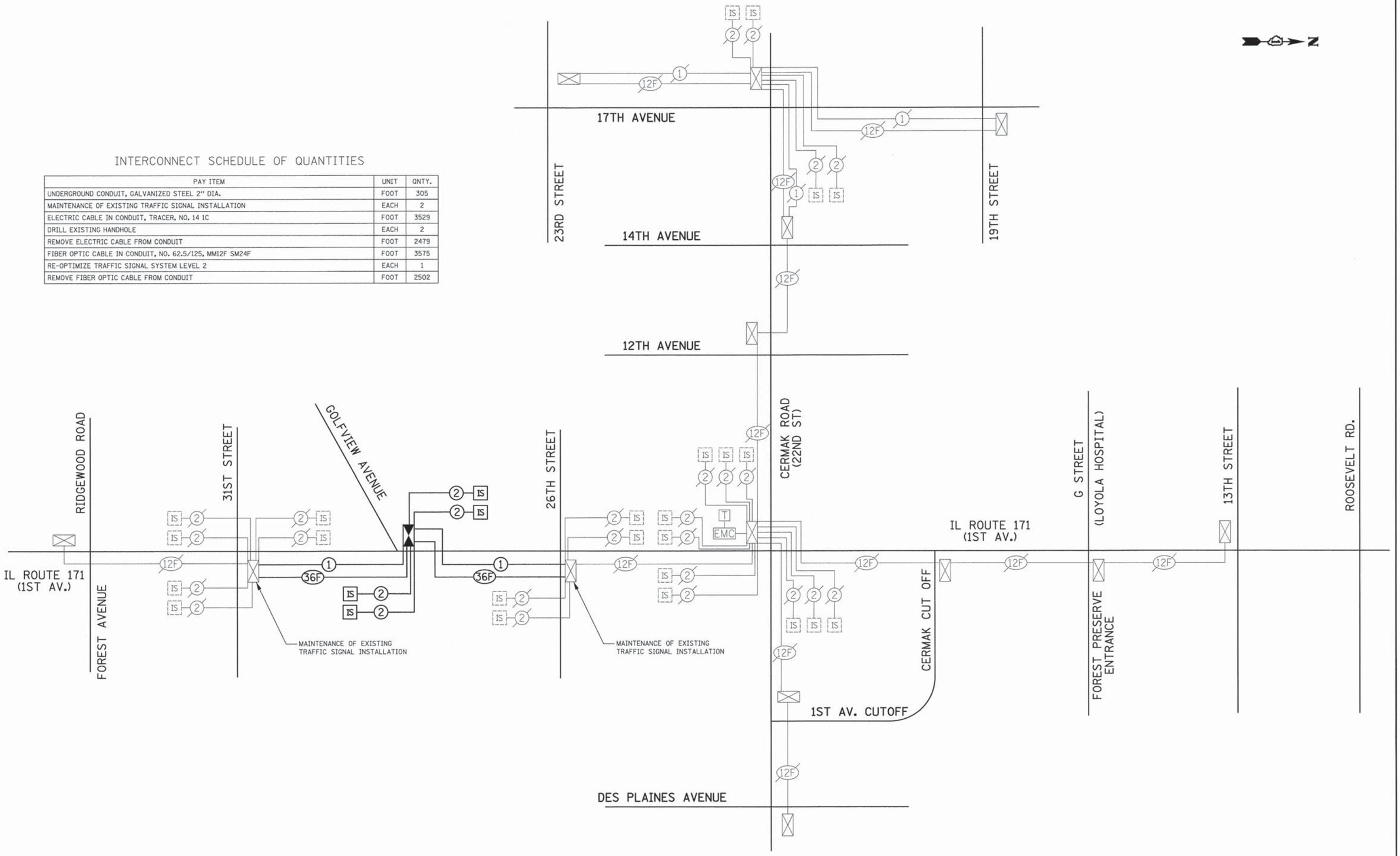
INTERCONNECT PLAN
IL ROUTE 171 (1ST AVENUE)
31ST STREET TO 26TH STREET

SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	90
			CONTRACT NO.	63764
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

INTERCONNECT SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	305
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3529
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2479
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3575
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	2502



CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

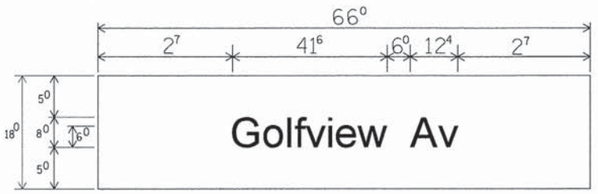
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL ROUTE 171 (1ST AVENUE)
CERMAK ROAD (22ND STREET)

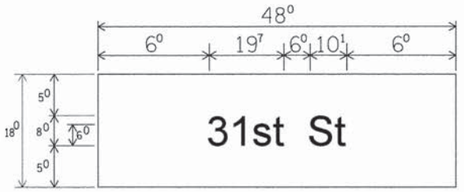
NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	91
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PANEL SIGN DESIGN TYPE 1

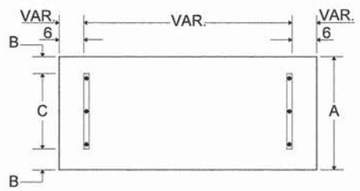


____ Sq. M Each 8.25 Sq. Ft. Each 4 Required Design Series D

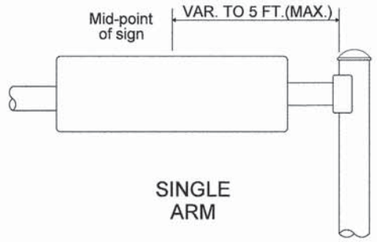


____ Sq. M Each 6.00 Sq. Ft. Each 1 Required Design Series D

SUPPORTING CHANNELS

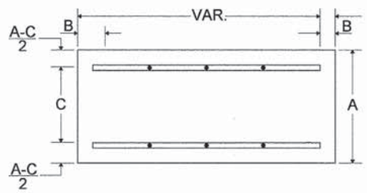


A	B	C
18"	2"	12"

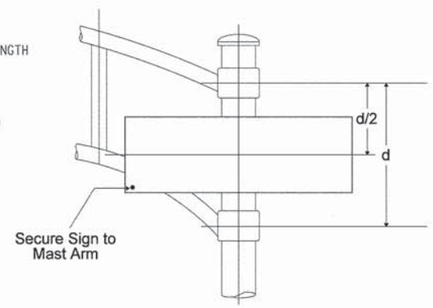


SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS.

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011, 877012, AS APPLICABLE. PLUS TWO (2) SIGN PANELS 2'-6" X 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR THE STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITIES.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVER ALL LENGTH SHALL NOT EXCEED 8'0".
4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

*J.O. HERBERT CO. MIDLOTHIAN, VA — * WESTERN REMAC INC. WOODRIDGE, IL

PARTS LISTING:

SIGN CHANNEL — PART #HPN053 (MED. CHANNEL)

SIGN SCREWS — 1/4 " x 14 x 1" H.W.H #3 SELF TAPPING WITH NEOPRENE WASHER

BRACKETS — PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

EXAMPLE, $2^{\textcircled{3}}$ DENOTES 3/8"

UPPER TO LOWER CASE
SPACING CHART 8-6 INCH SERIES "C & D"

	SECOND LETTER															
	a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^2	1^4	1^4	1^5	1^2	1^4	0^6	1^0	1^1	1^4	0^6	1^0	1^1	1^2	1^2	1^4
B	1^4	1^5	2^0	2^1	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4	1^2	1^4	1^6	1^7
C E G	1^4	1^5	2^0	2^1	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
D O Q R	1^4	1^5	2^0	2^1	1^4	1^5	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
F	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^6	1^0	0^6	1^0	0^6	1^0	1^1	1^2
H I M N	2^0	2^1	2^2	2^4	2^0	2^1	1^4	1^5	1^6	1^7	1^6	1^7	2^0	2^1	2^0	2^1
J U	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1
K L	1^1	1^2	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
P	1^2	1^4	1^4	1^5	1^2	1^4	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
S	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
T	1^1	1^2	1^6	1^7	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
V	0^6	1^0	1^4	1^5	1^1	1^2	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
Y	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^5	0^7	0^5	0^6	0^6	1^0	1^1	1^2
Z	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1

LOWER CASE TO LOWER CASE
SPACING CHART 6 INCH SERIES "C" & "D"

FIRST LETTER	SECOND LETTER															
	a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d g h i j l m n q u	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^6	1^7
b f k o p s	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
c e	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
r	0^6	1^0	1^2	1^4	0^6	1^0	0^3	0^3	0^5	0^6	0^5	0^6	0^6	1^0	0^6	1^0
t z	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
v y	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2
w	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
x	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4

NUMBER TO NUMBER
SPACING CHART 8 INCH SERIES "C" & "D"

FIRST NUMBER	SECOND NUMBER															
	0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7
1	2^0	2^1	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	2^0	2^1	2^0	2^1	1^4	1^5	2^0	2^1	2^0	2^1
2 3 4	1^4	1^5	1^4	1^5	1^4	1^5	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^6	1^7	1^4	1^5
5	1^4	1^5	1^4	1^5	1^4	1^5	1^1	1^2	1^1	1^2	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
6	1^6	1^7	1^4	1^5	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
7	1^2	1^4	1^2	1^4	1^4	1^5	1^2	1^5	0^5	0^6	1^2	1^4	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4
8	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^4	1^5

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	D	8 INCH UPPER CASE LETTERS SERIES C	D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	D
A	3^6	5^0	5^0	6^5	a	3^5	4^2
B	3^2	4^0	4^3	5^3	b	3^5	4^2
C	3^2	4^0	4^3	5^3	c	3^5	4^1
D	3^2	4^0	4^3	5^3	d	3^5	4^2
E	3^0	3^5	4^0	4^7	e	3^5	4^2
F	3^0	3^5	4^0	4^7	f	2^3	2^6
G	3^2	4^0	4^3	5^3	g	3^5	4^2
H	3^2	4^0	4^3	5^3	h	3^5	4^2
I	0^7	0^7	1^1	1^2	i	1^1	1^1
J	3^0	3^6	4^0	5^0	j	2^0	2^2
K	3^2	4^1	4^3	5^4	k	3^5	4^2
L	3^0	3^5	4^0	4^7	l	1^1	1^1
M	3^7	4^5	5^1	6^1	m	6^0	7^0
N	3^2	4^0	4^3	5^3	n	3^5	4^2
O	3^4	4^2	4^5	5^5	o	3^6	4^3
P	3^2	4^0	4^3	5^3	p	3^5	4^2
Q	3^4	4^2	4^5	5^5	q	3^5	4^2
R	3^2	4^0	4^3	5^3	r	2^6	3^2
S	3^2	4^0	4^3	5^3	s	3^6	4^2
T	3^0	3^5	4^0	4^7	t	2^7	3^2
U	3^2	4^0	4^3	5^3	u	3^5	4^2
V	3^5	4^4	4^7	6^0	v	4^2	4^7
W	4^4	5^2	6^0	7^0	w	5^5	6^4
X	3^4	4^0	4^5	5^3	x	4^4	5^1
Y	3^6	5^0	5^0	6^6	y	4^6	5^3
Z	3^2	4^0	4^3	5^3	z	3^6	4^3

NUMBER	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1^2	1^4	1^5	2^0
2	3^2	4^0	4^3	5^3
3	3^2	4^0	4^3	5^3
4	3^5	4^0	4^7	5^7
5	3^2	4^0	4^3	5^3
6	3^2	4^0	4^3	5^3
7	3^2	4^0	4^3	5^3
8	3^2	4^0	4^3	5^3
9	3^2	4^0	4^3	5^3
0	3^4	4^2	4^5	5^5

CIVILTECH

USER NAME = dte	DESIGNED - BRD	REVISED -	
	DRAWN - MFB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - JJE	REVISED -	
PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	92
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

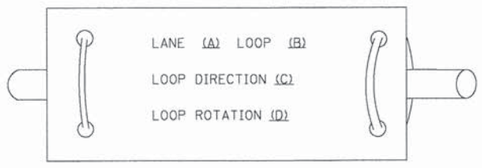
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

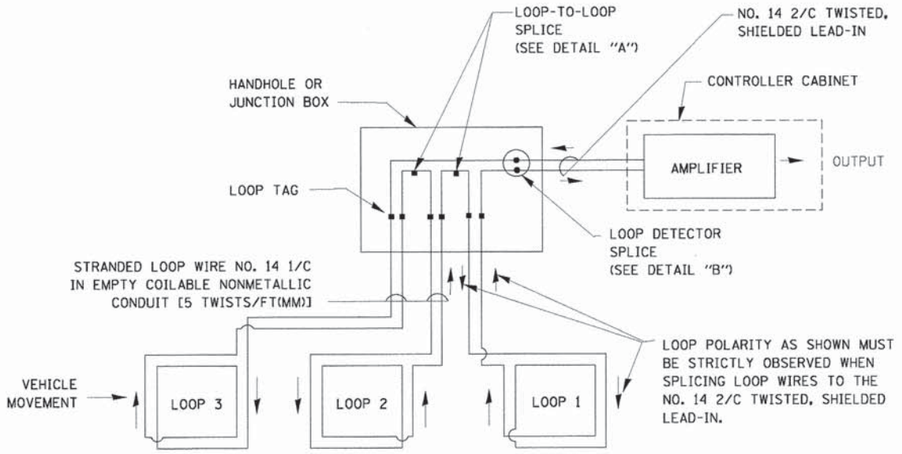


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

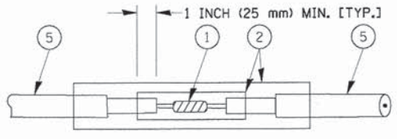
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

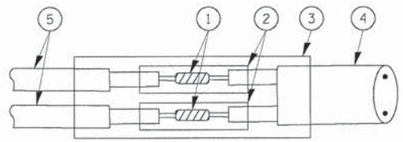


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

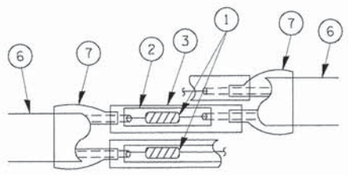


DETAIL "A"
LOOP-TO-LOOP SPLICE



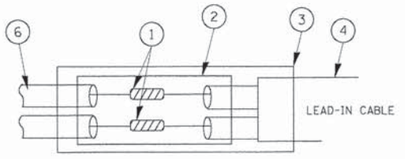
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT SCALE = 20.0000 ' / IN.	DRAWN - BCK	REVISED -
	PLOT DATE = 10/6/2009	CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

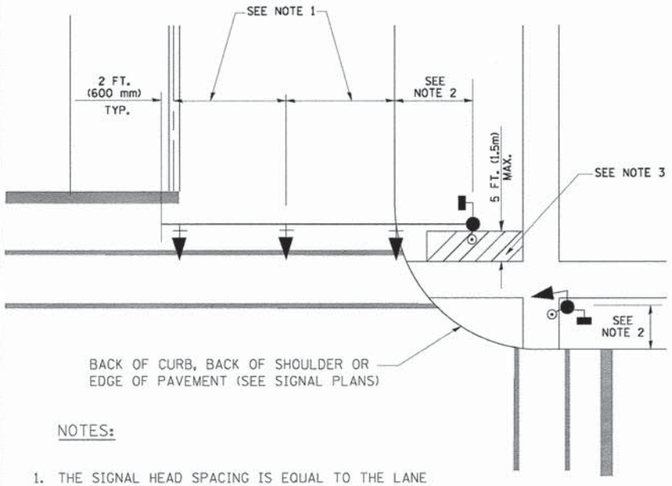
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	93
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

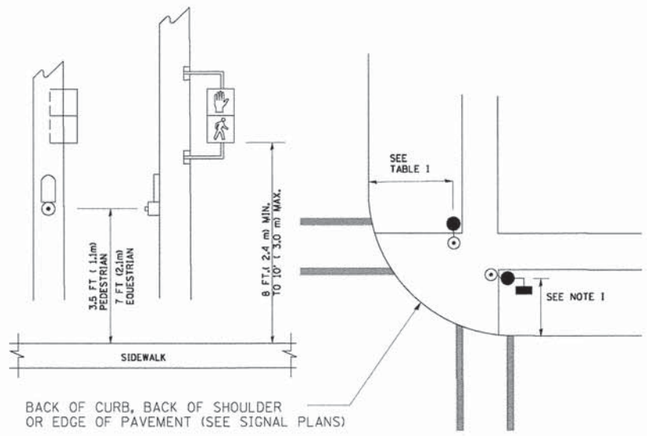
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

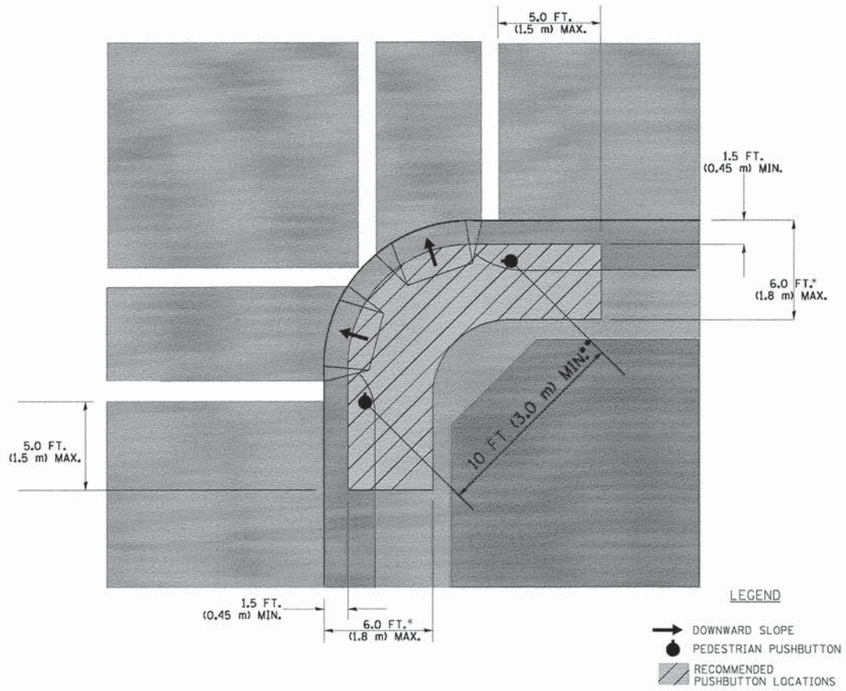
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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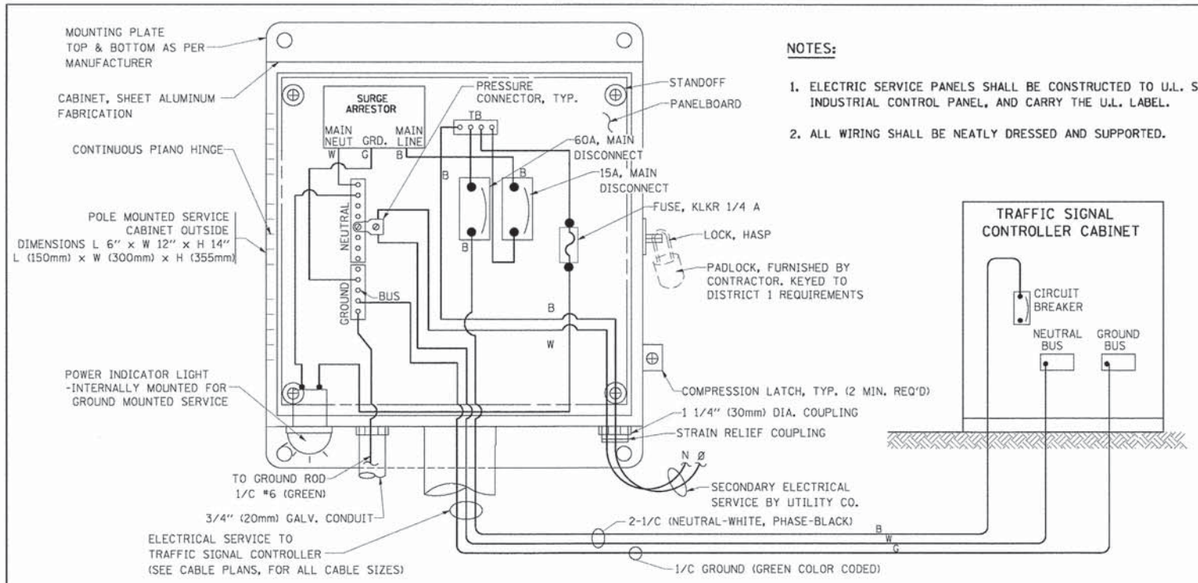
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	94
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



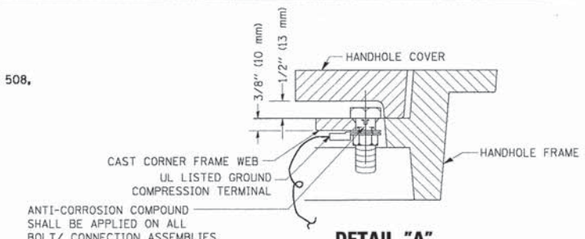
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

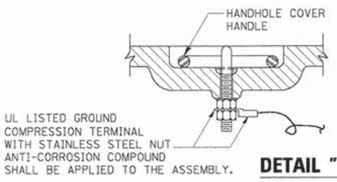
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

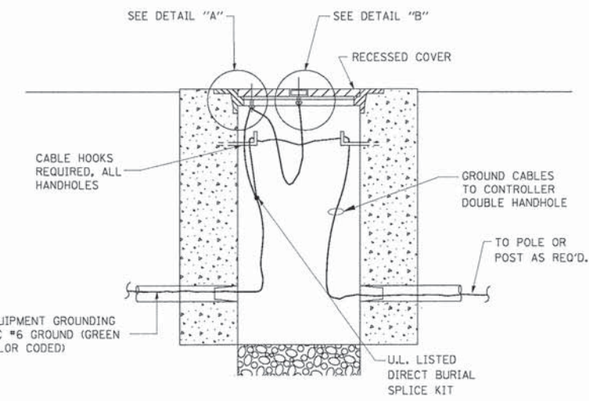


DETAIL "B"

NOTES:

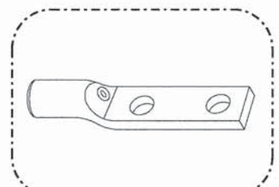
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

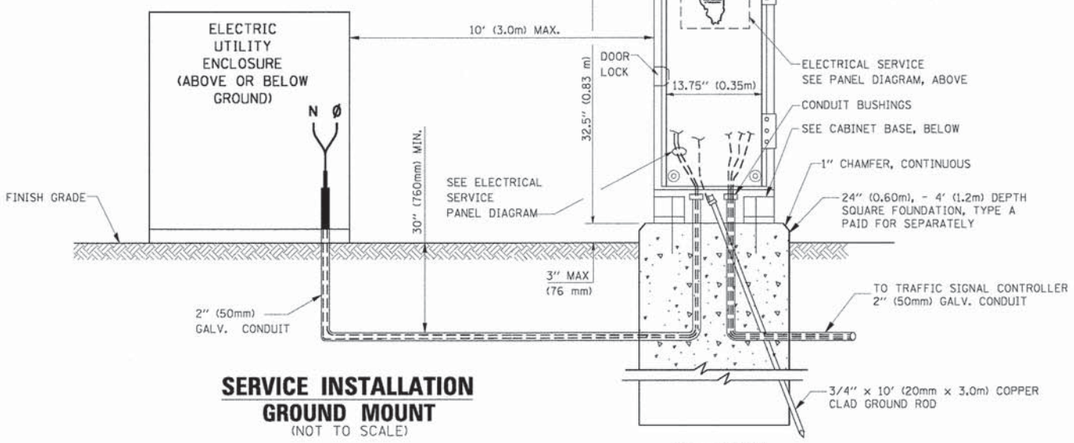


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

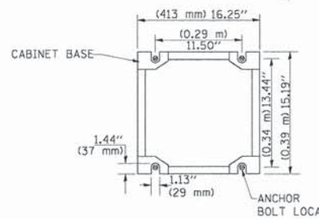
NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



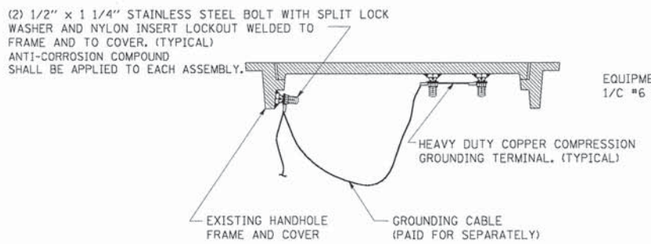
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



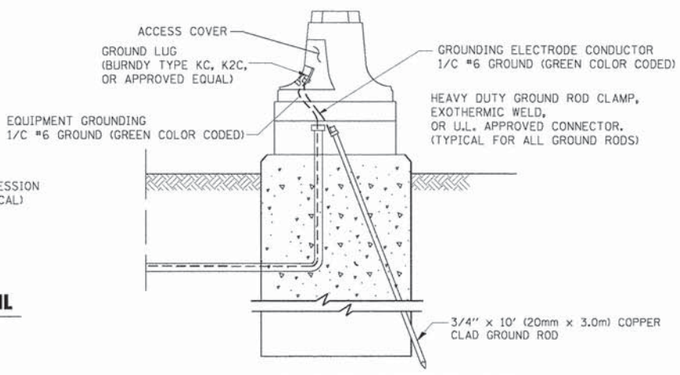
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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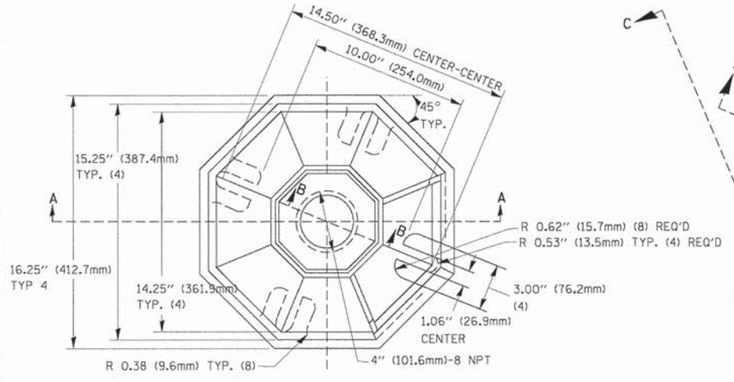
	PLOT DATE = 10/6/2009	CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

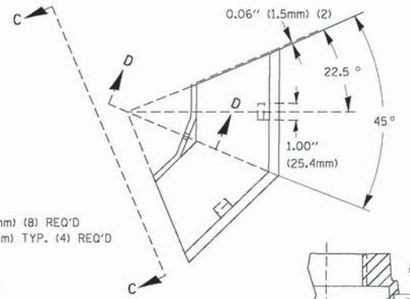
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

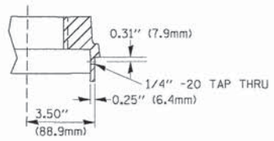
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	95
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

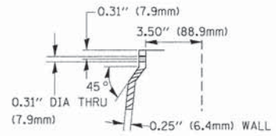


TOP VIEW

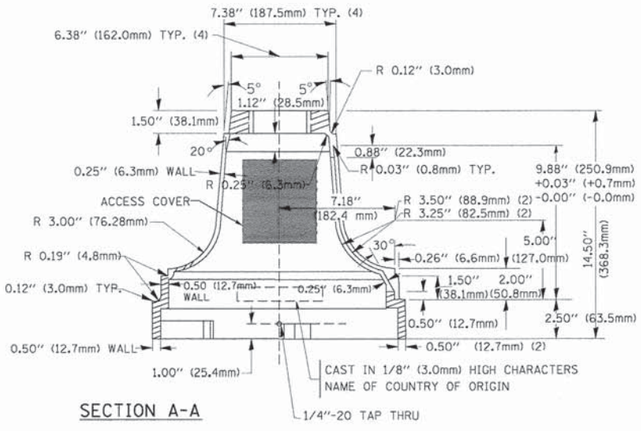




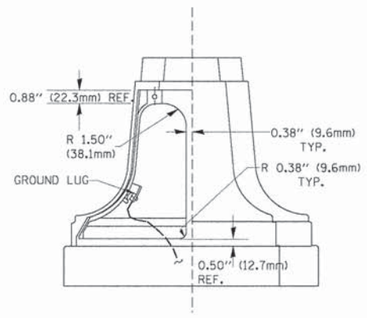
SECTION B-B



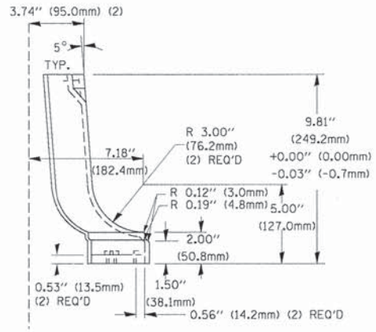
SECTION D-D



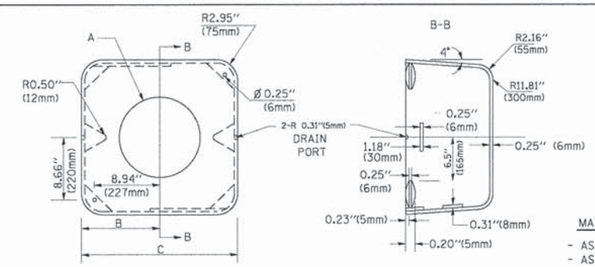
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

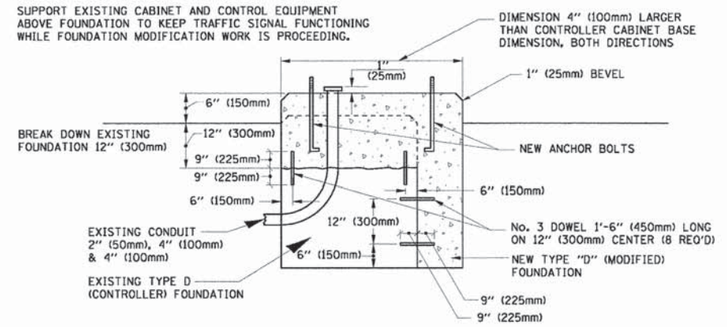
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

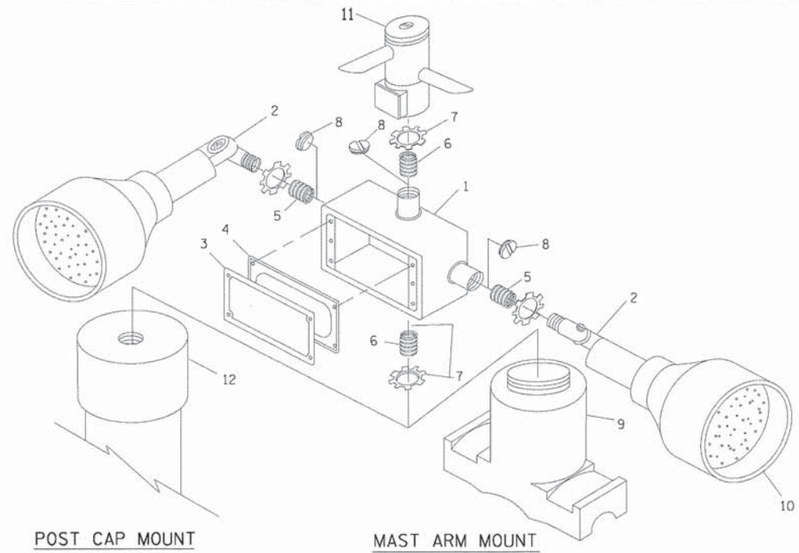
NOTES:

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

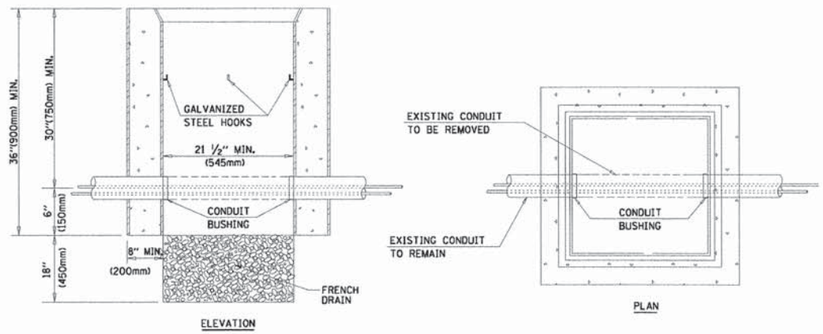
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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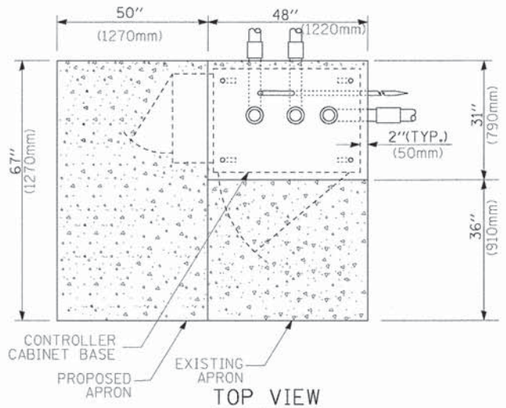
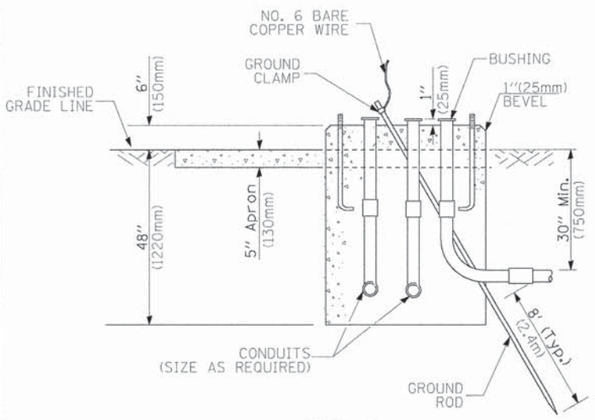
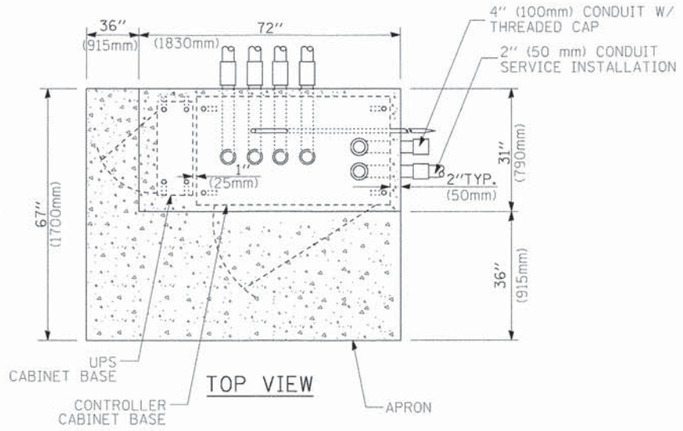
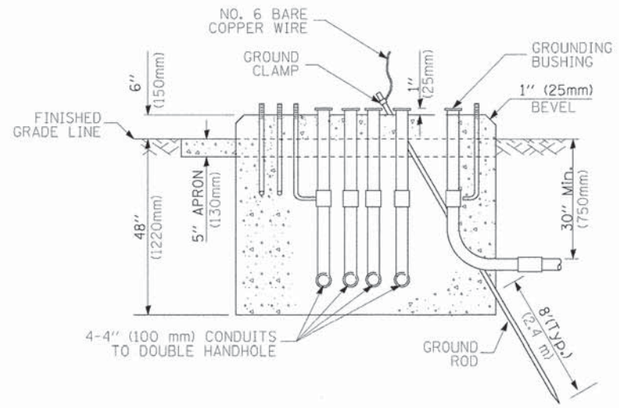
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



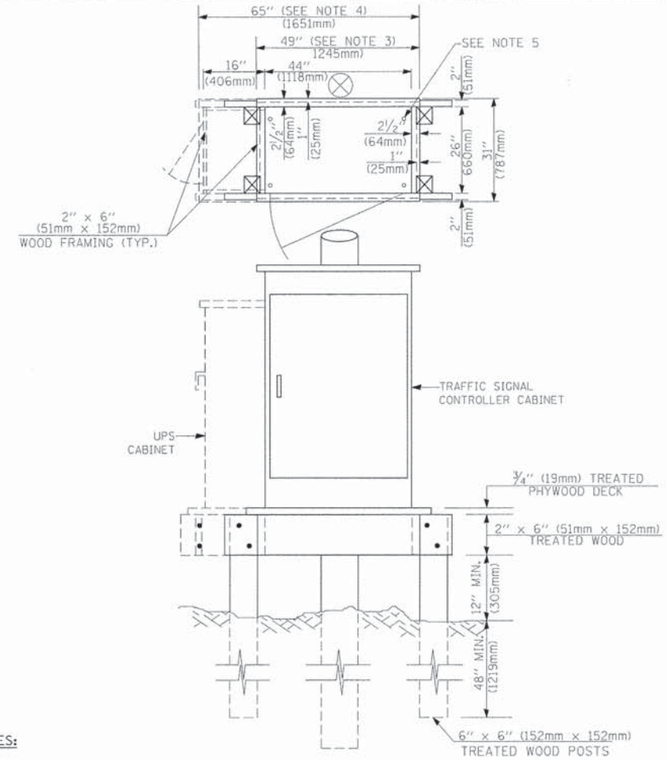


TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET





TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	97
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		RR	RR
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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		DRAWN - BCK	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	98
		CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DEVICES

$	SINGLE POLE TOGGLE SWITCH MC = MOMENTARY CONTACT WP = WEATHERPROOF 3W = 3-WAY EX = EXPLOSION PROOF 4W = 4-WAY T = THERMAL OVERLOAD 2P = TWO POLE P = PILOT LIGHT 3P = THREE POLE D = DIMMING SWITCH LV = LOW VOLTAGE K = KEY OPERATED
D	DIMMER SWITCH (wattage rating on plan)
LC	LIGHTING CONTACT IN ENCLOSURE
LR	LIGHTING RELAY CABINET
	DOORBELL
PC	PHOTOCELL
TS	TIME SWITCH
T	THERMOSTAT
$LO	LOCKOUT SWITCH
	PUSHBUTTON STATION WITH ONE BUTTON
	PUSHBUTTON STATION WITH TWO BUTTONS
	PUSHBUTTON STATION WITH TWO BUTTONS AND PILOT LIGHT
	PUSHBUTTON STATION WITH THREE BUTTONS
KR	KEY-RESET CONTROL STATION
SL	STOP-LOCK PUSHBUTTON STATION
	EMERGENCY POWER OFF MUSHROOM BUTTON
	SINGLE RECEPTACLE (wall mounted)
	DUPLEX RECEPTACLE (wall mounted)
	DOUBLE DUPLEX RECEPTACLE (wall mounted)
	SINGLE RECEPTACLE (flush floor mounted)
	DUPLEX RECEPTACLE (flush floor mounted)
	DOUBLE DUPLEX RECEPTACLE (flush floor mounted)
	SINGLE RECEPTACLE (poke-thru)
	DUPLEX RECEPTACLE (poke-thru)
	DOUBLE DUPLEX RECEPTACLE (poke-thru)
	RECEPTACLE CONNECTED TO CELLULAR FLOOR SYSTEM
	SPLIT WIRED DUPLEX RECEPTACLE (two circuits)
	RECEPTACLE MOUNTED ABOVE COUNTERTOP
C	CLOCK OUTLET RECEPTACLE
	CLOCK OUTLET AND CLOCK FOR INTEGRATED CLOCK SYSTEM
ELSS	ELEVATOR SELECTOR SWITCH FURNISHED BY ELEVATOR CONTRACTOR. INSTALLED BY E.C.
CO	CARBON MONOXIDE DETECTOR PER LOCAL CODE REQUIREMENTS

LIGHTING

	STRIPLIGHT
	1 x 4 FLUORESCENT FIXTURE
	2 x 2 FLUORESCENT FIXTURE
	2 x 4 FLUORESCENT FIXTURE
	PENDANT MOUNTED HID FIXTURE
	RECESSED DOWNLIGHT
	WALL WASHER
	TRACK LIGHTING WITH TRACK AND FIXTURE
	STRIPLIGHT ON EMERGENCY CIRCUIT
	1 x 4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	2 x 2 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	2 x 4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	RECESSED DOWNLIGHT ON EMERGENCY CIRCUIT
	EMERGENCY BATTERY PACK LIGHT
	EMERGENCY LIGHT - REMOTE HEAD

LIGHTING

	PHOTOCELL FOR CONTROL OF LIGHTING DUSK TO DAWN.
	EXIT/DIRECTIONAL SIGN
$OS	MANUAL/AUTOMATIC WALL MOUNTED MULTI TECHONOLOGY OCCUPANCY SENSOR. LEVITON-OSSMT-GDW VERIFY VOLTAGE
OS	MULTI TECHONOLOGY CEILING MOUNTED OCCUPANCY SENSOR LEVITON-OSC10-MDW
FP	OCCUPANCY POWER PACK LEVITON-OSP20-RNH
$MC	MASTER CONTROL STATION W/5 BUTTONS LEVITON D8000
OS	WALL MOUNTED OCCUPANCY SENSOR AIM FOR MAXIMUM COVERAGE. LEVITON ODWHB-10 WITH ODP13 POWER PACK 277V

RACEWAY AND WIRING

	CONDUIT RUN CONCEALED IN CEILING OR WALL ARROW IMPLIES DIRECT PATH TO DESIGNATED PANEL
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR
	GROUND WIRE CONCEALED IN CEILING OR WALL ARROWHEAD DENOTES HOMERUN TO PANELBOARD. TICK MARK INDICATE QUANTITY OF WIRE: PHASE AND SWITCH LEGS DENOTED AS SHORT LINES NEUTRAL DENOTED AS LONG LINE. GROUND WIRES DENOTED AS LONG LINES WITH DOT
UP	CONDUIT STUBBED UP
DN	CONDUIT STUBBED DOWN
	FLEXIBLE CONDUIT JUNCTION BOX (exposed or in ceiling)
J	JUNCTION BOX (wall or ceiling mounted) "FB" INDICATES FLOOR BOX WITH BLANK COVER
X	EQUIPMENT TAG
	CONDUIT SEAL
	MULTI-OUTLET ASSEMBLY
W	WIREWAY
C	CABLE TRAY
B	BUSWAY (BUSDUCT)
CTB	CABLE TAP BOX
	UNDERGROUND DUCTBANK
	UNDERGROUND DIRECT BURIAL CABLE
	UNDERFLOOR DUCT SYSTEM: INDICATES POWER DUCT INDICATED TELEPHONE DUCT INDICATES SYSTEM DUCT
	VARIOUS SYMBOLS IDENTIFY LOCATION OF DIFFERENT TYPES OF OUTLETS OR CONNECTIONS TO UNDERFLOOR DUCT SYSTEM.
MH	MANHOLE
HH	HANDHOLE
PB	PULLBOX

SIGNAL SYMBOLS

	BUZZER
CH	CHIME
	CLOSED CIRCUIT TELEVISION CAMERA
I	INTERCOM (wall or ceiling mount)
TTC	TELEPHONE TERMINAL CABINET
AMP	AMPLIFIER
M	MICROPHONE JACK
VC	VOLUME CONTROL
MS	MOTION SENSOR
CR	CARD READER (verify exact location) See Security and Architectural Specifications
ES	ELECTRIC STRIKE (verify exact location) See Security and Architectural Specifications
KP	KEYPAD (verify exact location) See Security and Architectural Specifications
DR	DOOR RELEASE
DC	SECURITY DOOR CONTACT
EP	EMERGENCY PANIC STATION
TES	TELEPHONE ENTRY SYSTEM

FIRE ALARM

A	GENERAL ALARM DEVICE
AV	GENERAL ALARM DEVICE WITH VISUAL ALARM DEVICE
PS	PRE-SIGNAL ALARM DEVICE
PSV	PRE-SIGNAL DEVICE WITH VISUAL ALARM DEVICE
S	VOICE COMMUNICATION SPEAKER
B	BEACON
SV	VOICE COMMUNICATION SPEAKER WITH VISUAL ALARM DEVICE
T	VOICE COMMUNICATION TELEPHONE
V	VISUAL ALARM DEVICE (PER FIRE PREVENTION)
RA	REMOTE ANNUNCIATOR LAMP FOR SELECTED DEVICE
D	HEAT DETECTOR (135° FIXED TEMPERATURE/RATE OF RISE)
SD	SYSTEM SMOKE DETECTOR
SDH	SYSTEM SMOKE DETECTOR WITH INTEGRAL HORN
SD	SINGLE STATION SMOKE DETECTOR WITH BATTERY BACKUP
DD	HVAC DUCT SMOKE DETECTOR
SD T	BEAM SYSTEM SMOKE DETECTOR (UL-268) TRANSMITTER
SD R	BEAM SYSTEM SMOKE DETECTOR (UL-268) RECEIVER
S	MANUAL PULL STATION
WF	SPRINKLER WATERFLOW INDICATOR
AV	SPRINKLER ALARM VALVE ATTACHMENT
PS	SPRINKLER PRESSURE SWITCH
HES	HALON EXTINGUISHING SYSTEM
DES	DRY CHEMICAL EXTINGUISHING SYSTEM
WES	WET CHEMICAL EXTINGUISHING SYSTEM
GES	GASEOUS EXTINGUISHING SYSTEM
	MAGNETIC/ELECTRONIC DOOR HOLD OPEN DEVICE
	ELECTRIC DOOR LOCK
VSS	SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH
CBT	CITY FIRE ALARM BOX TIE AND DISCONNECT PANEL
FA	CITY FIRE ALARM BOX
CST	CENTRAL STATION TIE AND DISCONNECT
TB	TROUBLE BELL WITH TEST AND SILENCE SWITCH WITH LAMP
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
VCP	VOICE COMMUNICATION CONTROL PANEL
ECP	ELEVATOR STATUS/CONTROL PANEL
	HVAC DUCT FIRE DAMPER CONTROL
SRT	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH HORN AND LIGHT.

ABBREVIATIONS

1P	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERES (AMPS)
AF	AMPERE FUSE
AS	AMPERE SWITCH
A/C	AIR CONDITIONER
AC	ALTERNATING CURRENT
ACL	ACROSS THE LINE
AFF	ABOVE FLOOR FINISH
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERES
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAL	BALLAST
BGB	BUILDING GROUND BOX
BOC	BOTTOM OF CONDUIT
BR	BRANCH
BRKR	BREAKER
C	CONDUIT
C.U.	COEFFICIENT of UTILIZATION
CAB	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CC	COMMUNICATIONS CONTRACTOR
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CLO	CLOSET
Co.	COMPANY
COAX	COAXIAL
ComEd	COMMONWEALTH EDISON COMPANY
COMP	COMPRESSOR
CONN	CONNECTED
CONV	CONVENIENCE
CP	CATHODIC PROTECTION
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
D	(for switches) DIMMER SWITCH
D	DEDICATED
DC	DIRECT CURRENT
DISC.SW.	DISCONNECT SWITCH
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
E/P	ELECTRIC/PNEUMATIC SWITCH
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EHD	ELECTRIC HAND DRYER
EL	ELEVATION
ELEC	ELECTRIC (ITY)
EM	EMERGENCY
EMT	ELECTRICAL METALLIC CONDUIT
EP	EXPLOSION PROOF
EQ	EQUIPMENT
ER	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
F	FUSE or FUSED
FA	FIRE ALARM
FB	FLOOR BOX
FC	FAULT CURRENT
FC	FOOT CANDLE
FDC	FIRE DEPARTMENT CONNECTION
FLUOR	FLUORESCENT
FLR	FLOOR
FP	FAN POWERED BOX
FS	FUSED SWITCH
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
GHW	GALVANIZED HEAVY WALL STEEL CONDUIT
GP	GENERAL PURPOSE
GRD	GROUND
GRS	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPFF	HIGH POINT of FINISHED FLOOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
Hz	HERTZ (cycles per second)
I	CURRENT
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
INC	INCANDESCENT
JB	JUNCTION BOX
K	(for switches) KEY SWITCH
KO	KNOCK-OUT
kVA	KILOVOLT-AMPERES
kW	KILOWATT
kWH	KILOWATT-HOURS
LA	LIGHTNING ARRESTOR
LC	LEAD COVERED
LS	LOUD SPEAKER
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MC	(for switches) MOMENTARY CONTACT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MIL
MERC	MERCURY VAPOR
MFR	MANUFACTURER
MFS	MAIN FUSED SWITCH
MH	MANHOLE
MH	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTR	MOTOR
MV	MULTI-VAPOR
N	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEUT	NEUTRAL
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
NTS	NOT TO SCALE
OH	OVERHEAD
P	(for switches) PILOT LIGHT
PA	PUBLIC ADDRESS
PB	PULLBOX
PDU	POWER DISTRIBUTION UNIT
PH	PHASE
PNL	PANEL
PRI	PRIMARY
PROT	PROTECTION or PROTECTIVE
PT	POTENTIAL TRANSFORMER
PWR	POWER
R	RESISTANCE
RC	REMOTE CONTROL
REC	RECTIFIER
RECP	RECEPTACLE
RF	RADIO FREQUENCY
RH	RHEOSTAT
RT	RAIN-TIGHT
RW	REWIRE
S	SWITCH
S/T	SHUNT-TRIP
SEC	SECONDARY
SC	SEPARATE CIRCUIT
SIG	SIGNAL
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
STA	STATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
T	(for switches) THERMAL OVERLOAD
T/D	TELEPHONE/DATA
TC	TERMINAL CABINET
TEL	TELEPHONE
TEL.CL.	TELEPHONE CLOSET
TERM	TERMINAL
TGL	TOGGLE
TL	TWIST-LOCK
TM	TRANSFER MANHOLE or VAULT
TOC	TOP OF CONDUIT
TR	TRIP
TRANS	TRANSFER
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNG	UNGROUNDED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SYSTEM
UV	UNDERVOLTAGE
V	VOLT
VA	VOLT-AMPS
VAV	VARIABLE AIR VOLUME
VC	VARNISHED CAMBRIC
VP	VAPOR-PROOF
VS	VARIABLE SPEED
VT	VAPOR-TIGHT
W	WATTS
WH	WATT-HOUR
WP	WATER-PROOF
WT	WATER-TIGHT
X	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
XR	EXISTING TO BE RELOCATED

POWER

	SWITCHGEAR, SWITCHBOARD, OR MOTOR CONTROL CENTER
	DISTRIBUTION BOARD (surface mounted)
	METER (surface mounted)
	PANELBOARD (surface mounted)
	PANELBOARD (recessed mounted)
	MOTOR (rating as indicated)
F	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION MOTOR STARTER AND FUSED DISCONNECT
C	MAGNETICALLY HELD CONTACTOR
T	TRANSFORMER

TELEPHONE/DATA DEVICES

	TELEPHONE OUTLET (wall mounted) See Telephone/Data specifications.
	DATA OUTLET (wall and/or furniture mounted) See Telephone/Data specifications.
	TELEPHONE/DATA COMBINATION OUTLET See Telephone/Data specifications.
	TELEPHONE OUTLET (floor mounted) See Telephone/Data specifications.
	DATA OUTLET (floor mounted) See Telephone/Data specifications.
	TELEPHONE/DATA COMBINATION OUTLET (floor mounted) See Telephone/Data specifications.
	TELEPHONE OUTLET (poke-thru) See Telephone/Data specifications.
	DATA OUTLET (poke-thru) See Telephone/Data specifications.
	TELEPHONE/DATA COMBINATION OUTLET (poke-thru) See Telephone/Data specifications.
P	PUBLIC PAY TELEPHONE
W	WALL MOUNTED TELEPHONE
R	HANDS FREE COMMUNICATIONS DEVICE AT AREA OF RESCUE ASSISTANCE

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	PLOT DATE = 5/6/2013	DATE - 05/13/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLAN – SYMBOL LEGEND

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	99
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

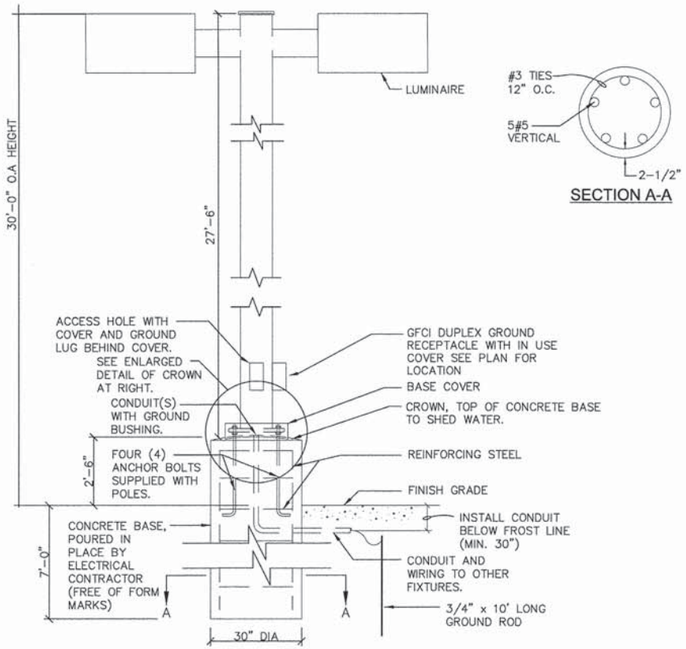
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO LOCAL BUILDING CODE AND ORDINANCES.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS PORTION OF WORK WITH OTHER PORTIONS OF THE WORK.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY TO THE PUBLIC AND TO THE PROPERTY BOTH PRIVATE AND PUBLIC.
4. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH HIS PORTION OF WORK.
5. TEMPORARY LIGHT AND POWER FOR THE PROJECT (INSTALLATION, EQUIPMENT, MATERIALS AND MAINTENANCE) SHALL BE INCLUDED AS PART OF THE ELECTRICAL WORK, IN A MANNER CONSISTENT WITH NORMAL PRACTICE.
6. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS AT PANELS AND MAIN SERVICES SO THAT LOADS ARE BALANCED AND NO OVERLOADING SUBFEEDS, BRANCH CIRCUITS, ETC.
7. BRANCH CIRCUITING IS DIAGRAMATIC IN NATURE AND INDICATES WHICH DEVICES ARE TO BE ON SAME CIRCUIT OR CONTROLLED FROM SAME SWITCH.
8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH GENERAL CONTRACTOR, HVAC CONTRACTOR AND PLUMBING CONTRACTOR.
9. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS TO ASCERTAIN EXACT LOCATION OF ELECTRICAL EQUIPMENT & PROVIDE ELECTRICAL SERVICE TO EQUIPMENT WHETHER OR NOT INDICATED ON ELECTRICAL DRAWINGS.
10. ELECTRICAL CONTRACTOR SHALL OBTAIN AND ACQUAINT HIMSELF WITH MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATION, QUANTITY, HORSEPOWER RATING AND VOLTAGE PRIOR TO BIDDING. ADDITIONAL COST TO CONTRACT WILL NOT BE ACCEPTED FOR FAILURE TO PERUSE ALL CONTRACT DOCUMENTS.
11. EXCAVATION AND BACKFILL FOR INSTALLATION OF ELECTRICAL WORK SHALL BE PART OF THE ELECTRICAL WORK.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE FLOOR AND WALL FIRE STOPPING FOR ALL PIPE AND CONDUIT PENETRATIONS THROUGH FLOOR CONSTRUCTION (3 HOUR) AND ANY OTHER RATED WALLS SUCH AS ELEVATOR SHAFTS (2 HOUR) OR STAIRWELLS (1 HOUR). FIRE STOP SHALL BE 'SPEC SEAL' AS MANUFACTURED BY SPECIFIED TECH. INC. OR APPROVED EQUAL.
13. ANY CUTTING, CHANNELING, SLEEVES, OPENINGS FOR ELECTRICAL INSTALLATION SHALL BE PART OF THE ELECTRICAL WORK. BEFORE ANY WORK IS STARTED, WRITTEN APPROVAL MUST BE OBTAINED FROM ARCHITECT AND ANY DAMAGE SHALL BE REPAIRED AT ELECTRICAL CONTRACTOR'S EXPENSE.
14. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL SUPPORTS FOR CABLE, BOXES, CONDUITS, ETC.
    ALL SUPPORTS SHALL ONLY BE ANCHORED TO BUILDING STRUCTURE. CEILING SUPPORTS SHALL NOT BE USED TO SUPPORT CABLE, BOXES, CONDUITS, ETC.
15. ALL SUSPENDED CEILING GRIDS, MECHANICAL SYSTEMS, AUTOMATIC SPRINKLER SYSTEMS, ELECTRICAL SYSTEM COMPONENTS, AND PLUMBING SYSTEMS SHALL BE SUPPORTED ONLY FROM THE TOP OF BAR JOIST AND/OR STRUCTURE ABOVE. SUPPORT FROM BOTTOM CHORDS OF BAR JOIST IS NOT PERMITTED.
16. ALL LAY-IN CEILING FIXTURES SHALL BE SECURED TO CEILING GRID PER ARTICLE #410 (c) 2005 N.E.C.
17. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE BATTERY BACK-UP TYPE. SAID EQUIPMENT SHALL BE SPACED AND LOCATED THROUGHOUT ALL OCCUPIED SPACES TO MEET APPLICABLE CODES AND ARE SUBJECT TO THE APPROVAL OF THE LOCAL FIRE MARSHAL.
18. ELECTRICAL CONTRACTOR SHALL ROUTE CONDUIT SERVING ROOFTOP EQUIPMENT WITH MECHANICAL PIPING.
19. CONTROLS & OPERATING DEVICES WILL BE MOUNTED NO HIGHER THAN 54" FOR SIDE REACH AND 48" FOR FORWARD REACH. OUTLETS, ETC., WILL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR [IAC 400.310(r)].
20. PROVIDE ONE (1) NEMA 5-20R-WP-GFI RECEPTACLE NEXT TO EACH NEW RTU ON THE ROOF. REFER TO THE DRAWINGS FOR EXACT LOCATIONS.
21. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL EXISTING ELECTRICAL FIXTURES, PANELS, AND DEVICES, ALONG WITH RELATED WIRING AND CONDUIT. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO DETEMINE THE EXACT SCOPE OF ELECTRICAL DEMOLITION. ALL WALLS INDICATED FOR REMOVAL SHALL INCLUDE ALL ELECTRICAL DEVICES AND RELATED WIRING AND CONDUIT. ALL SALVAGE VALUE SHALL BE RETURNED TO OWNER. ELECTRICAL CONTRACOR SHALL CORRDINATE ALL ELECTRICAL SHUTDOWN AND DEMOLITION OF ALL ELECTRICAL EQUIPMENT AND FIXTURES WITH THE PROJECT MANAGER AND WITH ARECHITECURAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ALL EQUIPMENT TO BE REMOVED OR RELOCATED. COORDINATE DISCONNECTION WITH PROJECT MANAGER AND ARCHITECTURAL PLANS.
22. VERIFY LOCATION AND REQUIREMENTS OF SIGNS PRIOR TO ROUGH-IN OF JUNCTION BOXES. SIGNS FURNISHED WITH DISCONNECT SWITCHES BY SIGN CONTRACTOR.
23. IN ACCESSIBLE UNITS ALL ELECTRICAL DEVICES: SWITCHES, RECEPTACLES, PANELS, ETC.; MOUNTING HEIGHTS SHALL COMPLY WITH ADA AND VILLAGE OF BROOKFIELD REQUIREMENTS.
24. IN GENERAL, CONDUIT SHALL BE CONCEALED,AND CONDUIT CAN BE EXPOSED IN UNFINISHED AREA OR WHERE OTHER MECHANICAL TRADES INSTALLED EXPOSED PIPING. EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING WALLS. VERIFY SURFACE RACEWAY AND EXPOSED CONDUIT INSTALLATIONS WITH ARCHITECT PRIOR TO INSTALLATION. CONDUIT INSTALLED IN FLOOR SLAB AND/OR IN GRADE SHALL BE GRH.
25. TELEPHONE/DATA SYSTEM WORK SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR.
26. USE NO WIRE SMALLER THAN NO. 14 AWG COPPER, RATED AT 600 VOLTS, FOR POWER AND LIGHTING BRANCH CIRCUITS AND NO SMALLER THAN NO.14 AWG COPPER FOR CONTROL WIRING. BRANCH CIRCUIT CONDUCTORS FOR 20 AMPERE, 120 VOLT CIRCUITS SHALL BE NO. 12 AWG COPPER, WITH CONDUCTOR FROM PANELBOARD TO THE FIRST OUTLET AS FOLLOWS:

0- 75 FEET	----------	#12 AWG (COPPER)
75-150 FEET	----------	#10 AWG (COPPER)
150-250 FEET	----------	#8 AWG (COPPER)
250-350 FEET	----------	#6 AWG (COPPER)

LIGHT FIXTURE SCHEDULE

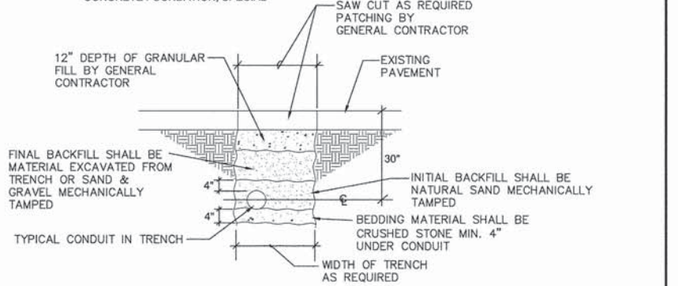
TAG	MANUFACTURER DESCRIPTION	LAMP	VOLTS	WATTS	REMARKS
F1	HADCO #RX2120H5NAMNNAN OR EQUAL	LED	240	285	SINGLE FIXTURE MOUNTED TO ROUND POLE. SEE DRG E1.0
F2	HADCO RX2120H3NAMNNAN OR EQUAL	LED	240	285	SIMILAR TO F1
F3	HADCO RX2120H4NAMNNAN OR EQUAL	LED	240	285	NEW FIXTURE MOUNTED TO EXISTING POLE F&I MOUNTING HARDWARE
F4	HADCO RX2120H3NAMNNAN OR EQUAL	LED	240	285 EACH	SAME AS F1 EXCEPT 2 FIXTURE MOUNTED AT 180 DEG.
F5	NOT USED				
F6	ANP BL0201 OR EQUAL	LED	120V		42" BOLLARD LIGHT FIXTURE SEE DETAIL
F7	EMERGE WGXP OR EQUAL	LED	120V		GRADE MOUNTED WALL WASH FIXTURE
F8	HADCO RX2120H3NAMNNAN OR EQUAL	LED	240V	285	NEW FIXTURE MOUNTED TO EXISTING POLE. F&I MOUNTING HARDWARE
F9	NOT USED				
F10	NOT USED				
F11		LED	120V		EXTERIOR KIOSK MOUNTED LED FIXTURE FOR PRICING SIGN LIGHTING FURNISHED INSTALLED & WIRED BY EC



LIGHT POLE & CONCRETE BASE DETAIL

NOT TO SCALE

TYPICAL FOR FIXTURES F1; CONCRETE BASE PAID FOR AS "CONCRETE FOUNDATION, SPECIAL"



CONDUIT INSTALLATION DETAIL

CLOSED CIRCUIT CAMERA SYSTEM SCOPE

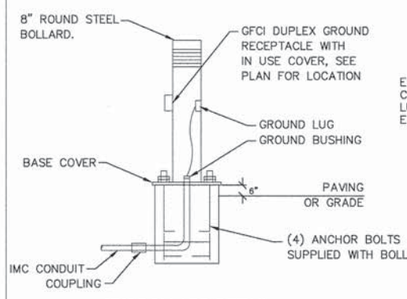
CLOSED CIRCUIT SECURITY CAMERA SYSTEM SCOPE EQUAL TO FOLLOWING & SHALL BE COMPATIBLE WITH THE MILESTONE ENTERPRISE VERSION 7,Da OR LATER.

WP CCTV

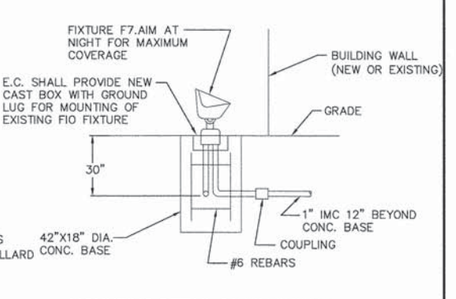
1. POLE MOUNTED CAMERAS SHALL BE WITH PAN TILE ZOOM DAY-NIGHT PTZ, DOME, NEMA 4X AT ENCLOSURE, 12X OPTICAL ZOOM POWER OVER ETHERNET CAPABILITY, MOUNTING BRACKET AXIS 5512-E PTZ DOME NETWORK CAMERA W/ POE 802, 3af CLASS 3 (CAMERAS POWERED FROM POLE MOUNTED CISCO 1552 WIRELESS ACCESS POINT)

2. CEILLING MOUNTED CAMERA IN KIOSK IS SIMILAR TO ITEM 1 EXCEPT NEMA 1 ENCLOSURE & 3X ZOOM & POWER OVER ETHERNET MIDSPAN, AXIS M5014 PTZ DOME NETWORK CAMERA.

3. SYSTEM INSTALLED SHALL BE PERFORMED BY A QUALIFIED CLOSED CIRCUIT SECURITY CAMERA INSTALLER WITH MINIMUM 5 YEARS OF EXPERIENCE WITH POE. TECHNOLOGY. QUALIFIED INSTALLER SHALL BE RESPONSIBLE FOR A COMPLETE & OPERATING SYSTEM.



"F6" BOLLARD DETAIL



MOUNTING DETAIL OF F7 FIXTURE

FILE NAME = ...\sheet\Lighting\2563_E_0_1.dgn	USER NAME = dte	DESIGNED - DO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL PLAN – NOTES, SCHEDUELES & DETAILS
		DRAWN - KNB	REVISED -		
	PLOT SCALE = 1.0000 ' / in.	CHECKED - NB	REVISED -		
	PLOT DATE = 5/30/2013	DATE - 05/13/2013	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	131	100
		CONTRACT NO. 63764		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		