

**INDEX OF SHEETS 1-18-13 LETTING ITEM 134**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	GENERAL NOTES & INDEX OF STATE STANDARDS
4-14	SUMMARY OF QUANTITIES
15-17	TYPICAL SECTIONS
18-20	SCHEDULE OF QUANTITIES
21	ALIGNMENT, TIES AND BENCHMARKS
22-27	REMOVAL PLAN
28-35	PLAN AND PROFILE
36-47	MAINTENANCE OF TRAFFIC
48-50	EROSION AND SEDIMENT CONTROL
51-59	DRAINAGE AND UTILITY PLAN
60-62	INTERSECTION DETAILS
63-65	GRADING PLAN
66-68	SIGNING AND STRIPING PLAN
69-71	LANDSCAPING PLAN
72-94	TRAFFIC SIGNAL PLAN
95-103	ELECTRICAL PLAN
104-106	ZOO CANOPY AND KIOSK PLAN
107-110	STRUCTURAL PLAN
111-113	PARKING LOT DETAILS
114-116	IDOT STANDARD DETAILS
117-120	TRAFFIC CONTROL DETAILS
121-133	CROSS SECTIONS

**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**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63764	

+5 = 138



C-91-569-10

**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

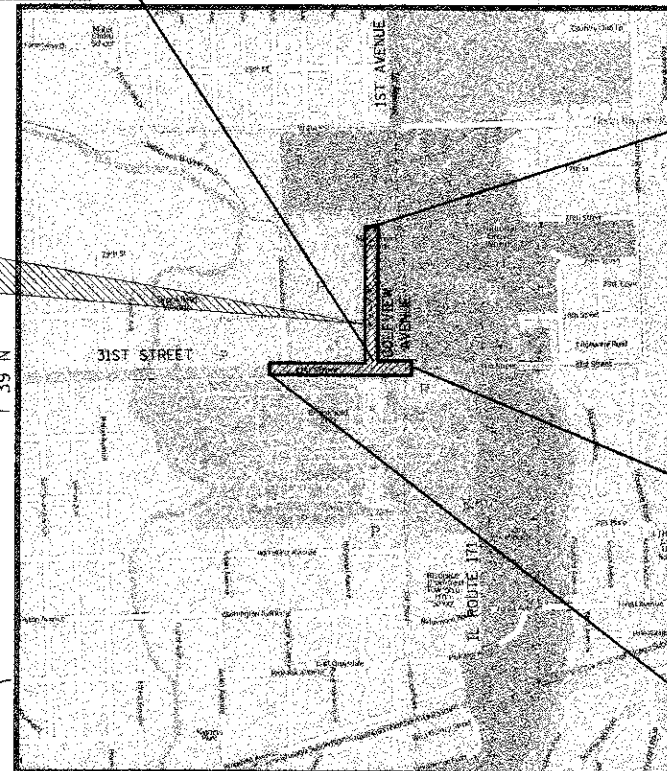
**DESIGN DESIGNATION**

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

PROJECT BEGINS  
STA. 10+00.00  
GOLFVIEW AVENUE

PROJECT ENDS  
STA. 26+14.88  
GOLFVIEW AVENUE

PROJECT LOCATION



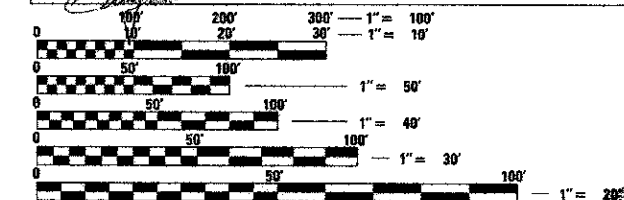
PROJECT ENDS  
STA. 216+00.00  
31ST STREET

PROJECT BEGINS  
STA. 207+06.00  
31ST STREET

**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 contractual obligation, they are in compliance with the Environmental Barriers Act (410 ILCS 25) and the Illinois Accessibility Code (71 ILCS Code 400)

Signed: *Erny A. Blomck*  
ARCHITECT/ENGINEER  
ILLINOIS REGISTRATION NO. 062-046580

*Erny A. Blomck* Date: 10/19/2012



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**

**VICTOR TKACHENKO**  
062-042645  
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

*Victor Tkachenko* 11/30/2015  
REGISTERED P.E., STATE OF ILLINOIS  
SHEETS 95-303  
EXPIRES

**GREGORY J. HATLESTAD**  
081-005562  
REGISTERED ARCHITECT, STATE OF ILLINOIS  
SHEETS 104-106  
EXPIRES

*Gregory J. Hatlestad* 11/30/2012  
REGISTERED P.E., STATE OF ILLINOIS  
SHEETS 107-110  
EXPIRES

**ERNY A. BLOMCK**  
062-046580  
REGISTERED ARCHITECT, STATE OF ILLINOIS  
SHEETS 104-106  
EXPIRES

*Erny A. Blomck* 11/30/2013  
REGISTERED P.E., STATE OF ILLINOIS  
SHEETS 107-110  
EXPIRES

GROSS AND NET LENGTH:  
GOLFVIEW AVENUE - 1,614.88 FT. (0.306 MILE)  
31ST STREET - 894.00 FT. (0.169 MILES)  
TOTAL - 2,508.88 FT. (0.475 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED \_\_\_\_\_ 20 12  
*Chris Stott*  
FOREST PRESERVE DISTRICT OF COOK COUNTY

PASSED *November 9* 20 12  
*C. Hart*  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW *November 9* 20 12  
*John Fintmann*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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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

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



**SIGNING, STRIPING & LANDSCAPING**

- 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.
- 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.
- 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.
- 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.
- 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.
- ALL UNUSED SIGNS AND POSTS SHALL BE RETURNED TO THE OWNER OF SIGN THAT WAS REMOVED.
- 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".
- 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.
- 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**

- 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.
- 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.
- 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.
- 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.
- 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.
- INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
- SEE STANDARD 280001-05 FOR ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL DETAILS AND REQUIREMENTS.
- 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.
- 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**

- 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.
- THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- ALL CONSTRUCTION SIGNS SHALL HAVE FLUORESCENT ORANGE BACKGROUNDS.
- 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.
- THE CONTRACTOR SHALL MAINTAIN 10-FOOT (MIN) DRIVING LANES ON ALL ROADS UNLESS DIRECTED BY THE ENGINEER OR OTHERWISE SHOWN ON THE PLANS.
- 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.
- 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.
- ALL BARRICADES AT LANE DIVERSIONS WITHIN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS.
- DRUMS SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.
- 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".
- TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901-02 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
- 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.
- 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 LINEAL FOOT.
- 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.
- THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY STAGE CHANGE AT LEAST TWO WEEKS IN ADVANCE OF THE CHANGE.
- 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.
- 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.
- 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.
- "WORKERS" SIGNS SHALL ONLY BE ERECTED WHEN WORKERS ARE PRESENT. SIGN MUST BE COVERED OR REMOVED WHEN NO WORKERS ARE PRESENT.
- "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)".
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 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 B
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-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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**

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

FILE NAME =	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...2563_GEN_M07E_02.dgn		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	133	3	
	PLOT SCALE = 1/8" = 1'	CHECKED - GAB	REVISED -			<b>CONTRACT NO. 63764</b>					
	PLOT DATE = 11/29/2012	DATE - 10/22/2012	REVISED -			SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	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	9485	9485								
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	55	55								
20400800	FURNISHED EXCAVATION	CU YD	100	100								
20800150	TRENCH BACKFILL	CU YD	690	690								
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	970	970								
Δ 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	100	100								
Δ 21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	180			180						
Δ 25000210	SEEDING, CLASS 2A	ACRE	1.5			1.5						
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	104			104						
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	104			104						
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	6924	6924								
Δ 25200110	SODDING, SALT TOLERANT	SQ YD	500			500						
Δ 25200200	SUPPLEMENTAL WATERING	UNIT	10	10								
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	143	143								
28000400	PERIMETER EROSION BARRIER	FOOT	2372	2372								
28000510	INLET FILTERS	EACH	54	54								
28100107	STONE RIPRAP CLASS A4	SQ YD	4	4								
28200200	FILTER FABRIC	SQ YD	681	681								
* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	55	55								
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	5189	5189								
31101800	SUBBASE GRANULAR MATERIAL, TYPE B 10"	SQ YD	12501	12501								
35501287	HOT-MIX ASPHALT BASE COURSE, 2 1/4"	SQ YD	2203	2203								
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	91	91								

• REQUIRES SPECIAL PROVISION  
Δ INDICATES SPECIALTY ITEM

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	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	8267	8267								
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	2157	2157								
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	312	312								
40701816	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6 3/4"	SQ YD	1428	1428								
40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SQ YD	2489	2489								
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	208	208								
42001300	PROTECTIVE COAT	SQ YD	2936	2936								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4283		4283							
44000100	PAVEMENT REMOVAL	SQ YD	9511	9511								
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	4105	4105								
44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	10219	10219								
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	744	744								
44000300	CURB REMOVAL	FOOT	2070	2070								
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4479	4479								
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	451	451								
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	501	501								
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	4	4								
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	269	269								
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	27	27								
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	94	94								

• REQUIRES SPECIAL PROVISION  
 Δ INDICATES SPECIALTY ITEM

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	
550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	16	16								
550B0330	STORM SEWERS, CLASS B, TYPE 2 10"	FOOT	42	42								
55100300	STORM SEWER REMOVAL 8"	FOOT	195	195								
55100500	STORM SEWER REMOVAL 12"	FOOT	241	241								
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	3	3								
60201205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE	EACH	12	12								
60207605	CATCH BASINS, TYPE C, 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	13	13								
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	3	3								
60255500	MANHOLES TO BE ADJUSTED	EACH	4	4								
60500040	REMOVING MANHOLES	EACH	4	4								
60500050	REMOVING CATCH BASINS	EACH	12	12								
60600605	CONCRETE CURB, TYPE B	FOOT	411	411								
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	5730	5730								
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	878	878								
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	2052	2052								
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	404	404								
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	3204	3204								
* 64300750	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 2	EACH	8			8						
Δ 66400105	CHAIN LINK FENCE, 4'	FOOT	151	151								

\* REQUIRES SPECIAL PROVISION  
Δ INDICATES SPECIALTY ITEM

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	
Δ 66400505	CHAIN LINK FENCE, 8'	FOOT	43	43								
Δ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	750	750								
Δ 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1								
Δ 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								
Δ 70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	36.4		36.4							
Δ 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	22742		22742							
Δ 70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	299		299							
Δ 70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	96		96							
Δ 70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	78		78							
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875		875							
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	175		175							
72000100	SIGN PANEL - TYPE I	SQ FT	120		80				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 I	SQ FT	16		16							
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	406		406							
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	400		400							
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8026		8026							
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1988		1988							
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	402		402							
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	153		153							
Δ 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73		73							

• REQUIRES SPECIAL PROVISION  
Δ INDICATES SPECIALTY ITEM

FILE NAME ...N02+Sum Quant\2563_S00_04.dgn	USER NAME = dse	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 7
PLOT SCALE = 1/8" = 1' 0"	CHECKED - GAB	DRAWN - DTE	REVISED -		SCALE: NONE	SHEET NO. 4 OF 11 SHEETS	STA.	TO STA.	CONTRACT NO. 63764			
PLOT DATE = 11/26/2012	DATE - 10/22/2012	CHECKED - GAB	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10/22/2012	REVISED -									

CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021			
				ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS			
									31ST STREET AT GOLFSVIEW ROAD	IL ROUTE 171 AT GOLFSVIEW ROAD	INTERCONNECT ROAD	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6799		6799							
Δ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	1787		1787							
Δ 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	374		374							
Δ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	12		12							
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	179		179							
Δ 78300100	PAVEMENT MARKING REMOVAL	SQ FT	2076		2076							
Δ 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1							
Δ * 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							1		
Δ 80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2							1	1	
Δ 81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL 1" DIA.	FOOT	2200		2200							
Δ 81028180	UNDERGROUND CONDUIT, GALVANIZED STEEL 1 1/4" DIA.	FOOT	2000		2000							
Δ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL 2" DIA.	FOOT	2931							770	1856	305
Δ 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL 2 1/2" DIA.	FOOT	302							77	225	
Δ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1087		950					116	21	
Δ 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	607							289	318	
Δ 81028260	UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIA.	FOOT	150		150							
Δ 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	300		300							
Δ 81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	30		30							
Δ 81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1511		1400	111						
Δ 81100200	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., GALVANIZED STEEL	FOOT	600		600							
Δ 81300100	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 4" X 4" X 3"	EACH	17		17							
Δ 81300420	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 6"	EACH	1		1							
Δ 81302000	JUNCTION BOX, CAST IRON, ATTACHED TO STRUCTURE, 4" X 4" X 3"	EACH	22		22							
Δ 81400100	HANDHOLE	EACH	15							4	11	
Δ 81400200	HEAVY-DUTY HANDHOLE	EACH	2							2		
Δ 81400300	DOUBLE HANDHOLE	EACH	3							2	1	

• REQUIRES SPECIAL PROVISION  
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FILE NAME = ...N02-Sum quant\2363.500.05.dgn	USER NAME = cte	DESIGNED - DTE	REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.U. RTE. 3794	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 8
PLOT SCALE = 1/8" = 1' / in.	CHECKED - GAB	DATE - 10/22/2012	REVISIONS -		SCALE: NONE	SHEET NO. 5 OF 11 SHEETS	STA.	TO STA.	CONTRACT NO. 63764				
PLOT DATE = 11/28/2012	DATE - 10/22/2012	REVISIONS -	REVISIONS -		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 GOLFPVIEW ROAD	IL ROUTE 171 AT GOLFPVIEW ROAD	INTERCONNECT	
Δ 81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1800		1800							
Δ 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2100		2100							
Δ 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	8150		8150							
Δ 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	15550		15550							
Δ 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	3600		3600							
Δ 81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	1000		1000							
Δ 81702230	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500MCM	FOOT	3000		3000							
Δ 81702441	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-12/C, 1-12/C GROUND	FOOT	600		600							
Δ 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	4		4							
Δ 84200804	REMOVAL OF POLE FOUNDATION	EACH	4		4							
Δ 84400105	RELOCATE EXISITNG LIGHTING UNIT	EACH	2		2							
Δ * 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2									2
Δ 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1							1		
Δ 86400100	TRANSCEIVER - FIBER OPTIC	EACH	1								1	
Δ 87100140	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	1200		1200							
Δ 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3529									3529
Δ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	394							394		
Δ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1213							846	367	
Δ 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3683							1430	2253	
Δ 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	672							672		
Δ 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2830							1062	1768	
Δ 87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2C	FOOT	1411								1411	
Δ 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	154							154		
Δ * 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2833							730	2103	
Δ 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3								3	
Δ 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2							2		

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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		
△ 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	28								8	20	
△ 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8								4	4	
△ <del>8780107</del>	CONCRETE FOUNDATION, (SPECIAL)	FOOT	80		80								
△ 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	57								37	20	
△ 87900200	DRILL EXISTING HANDHOLE	EACH	2										2
△ 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10								5	5	
△ 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	4								1	3	
△ 88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 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	
△ 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	2000		2000								

• REQUIRES SPECIAL PROVISION  
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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	
Δ 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	250		250							
Δ 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2						1	1		
Δ 89502380	REMOVE EXISTING HANDHOLE	EACH	17						5	12		
Δ 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2						1	1		
Δ 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	12						6	6		
Δ B2000566	TREE, AMELANCHIER CANADENSIS (SHADBLOW SERVICEBERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5			5						
Δ B2001166	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	1			1						
Δ C2C05818	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 18" WIDTH, CONTAINER	EACH	78			78						
Δ C2011600	SHRUB, VIBURNUM DENTATUM BLUE MUFFIN (BLUE MUFFIN ARROWHEAD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	15			15						
Δ C2011024	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC), 2' HEIGHT, BALLED AND BURLAPPED	EACH	19			19						
Δ D2C01018	EVERGREEN, JUNIPERUS HORIZONTALIS WILTONII (BLUE RUG JUNIPER), 18" WIDTH, CONTAINER	EACH	43			43						
Δ D2001572	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 6' HEIGHT, BALLED AND BURLAPPED	EACH	14			14						
Δ D2002172	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	3			3						
Δ D2C03524	EVERGREEN, TAXUS X MEDIA DENSIFORMIS (DENSE ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER	EACH	14			14						
Δ D2C03624	EVERGREEN, TAXUS X MEDIA HICKSII (HICKS ANGLOJAPANESE YEW), 2' WIDTH, CONTAINER	EACH	10			10						
Δ K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	2.44			2.44						
Δ K0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	0.59			0.59						
Δ * K1003679	MULCH	CU YD	76			76						
Δ * K1005421	SEEDING (SPECIAL)	ACRE	0.25			0.25						
* Z0004002	BOLLARDS	EACH	7	7								
* Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	270	270								
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1								
Δ * Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1								
Δ * Z0007602	BUILDING REMOVAL NO. 2	L SUM	1	1								
Δ * Z0007603	BUILDING REMOVAL NO. 3	L SUM	1	1								
Δ * Z0007604	BUILDING REMOVAL NO. 4	L SUM	1	1								

\* REQUIRES SPECIAL PROVISION  
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FILE NAME = ...02-Sum quant\2563.500.08.dgn	USER NAME = dso	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.J. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 11
PLOT SCALE = 1:8000 1/4" = 1'	CHECKED - CAB	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 8 OF 11 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 11/28/2012	DATE = 10/22/2012	REVISED -	REVISED -									
CONTRACT NO. 63764												

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	
Δ *	Z0007605	BUILDING REMOVAL NO. 5	L SUM	1	1							
Δ *	Z0007606	BUILDING REMOVAL NO. 6	L SUM	1	1							
*	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2	2							
*	Z0019600	DUST CONTROL WATERING	UNIT	432	432							
Δ *	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1								1
Δ *	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							
*	X0321309	CONCRETE PAD	SQ YD	4	4							
Δ *	X0322708	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	5	5							
*	X0324062	ENTRANCE SIGN	L SUM	1	1							
Δ *	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1140						438	702	
*	X0326696	SIGN AND POST	EACH	20		20						
*	X0327070	REMOVE EXISTING FLAGPOLE	EACH	6	6							
Δ *	X0327502	ACCESS GATE, DOUBLE, 40 FOOT	EACH	2	2							
Δ *	X0327503	ACCESS GATE, DOUBLE, 50 FOOT	EACH	1	1							
*	X0327412	RAILROAD TIES TO BE REMOVED	FOOT	703	703							
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100							
*	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1610	1610							
*	X5537600	STORM SEWERS TO BE CLEANED 8"	FOOT	177	177							
*	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	228	228							
*	X5538200	STORM SEWERS TO BE CLEANED 24"	FOOT	110	110							
*	X6020094	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1							

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Δ INDICATES SPECIALTY ITEM

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	
* X6040205	FRAMES AND LIDS, SPECIAL	EACH	4	4								
* 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								
Δ * X8211285	LUMINAIRE LED, HORIZONTAL MOUNT 285 WATT	EACH	30		30							
Δ * X8212030	LUMINAIRE LED, VERTICAL MOUNT 30 WATT	EACH	14		14							
Δ * X8300001	LIGHT POLE, SPECIAL	EACH	17		17							
Δ * X8570015	CONTROLLER (SPECIAL)	EACH	77		77							
Δ * X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1								1	
Δ * X8620200	UNINTERRUPTIBLE POWER SUPPLY (SPECIAL)	EACH	2						1	1		
Δ * X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3575									3575
* XX006457	WHEEL STOP REMOVAL AND REPLACEMENT	EACH	45	45								
* XX007461	OUTCROPPING	FOOT	274			274						
Δ * XX008608	CABLE, SPECIAL	FOOT	1400		1400							
* XX008743	STORM SEWERS, CLASS B, TYPE 1 8"	FOOT	94	94								
* XX008773	UNDERGROUND DETENTION	L SUM	1					1				
Δ * XX008774	FABRICATED CONTROL BOOTH, TYPE 1	EACH	4					4				
Δ * XX008775	FABRICATED CONTROL BOOTH, TYPE 2	EACH	2					2				
Δ * XX008776	FURNISHING AND ERECTING CANOPY STRUCTURE	L SUM	1					1				
Δ * XX008777	LUMINAIRE, LED VERTICAL ROOF MOUNT 30 WATT	EACH	12		12							
Δ * XX008778	LUMINAIRE, LED VERTICAL FLOOD LIGHT 30 WATT	EACH	10		10							
Δ * XX008779	LUMINAIRE, LED BOLLARD 30 WATT	EACH	22		22							
Δ * XX008780	GFCI RECEPTACLES, 20AMP 125VOLT	EACH	14		14							
Δ * XX008781	RECEPTACLE IN USE COVERS	EACH	14		14							
Δ * XX008782	DATA SURGE PROTECTORS 1GB	EACH	6		6							
Δ * XX008783	BARE ELECTRIC CABLE, INGROUND, GROUNDING CONDUCTOR NO. 1/0 1C	FOOT	400		400							

\* REQUIRES SPECIAL PROVISION  
Δ INDICATES SPECIALTY ITEM

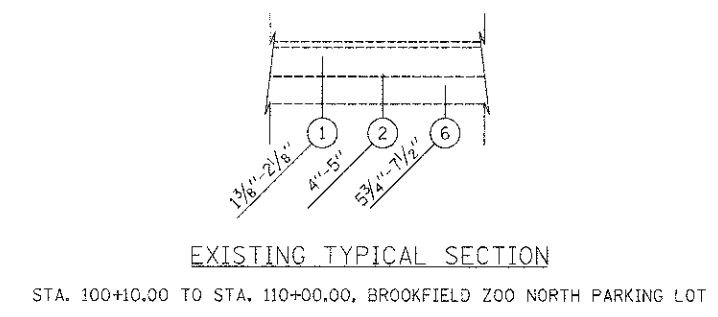
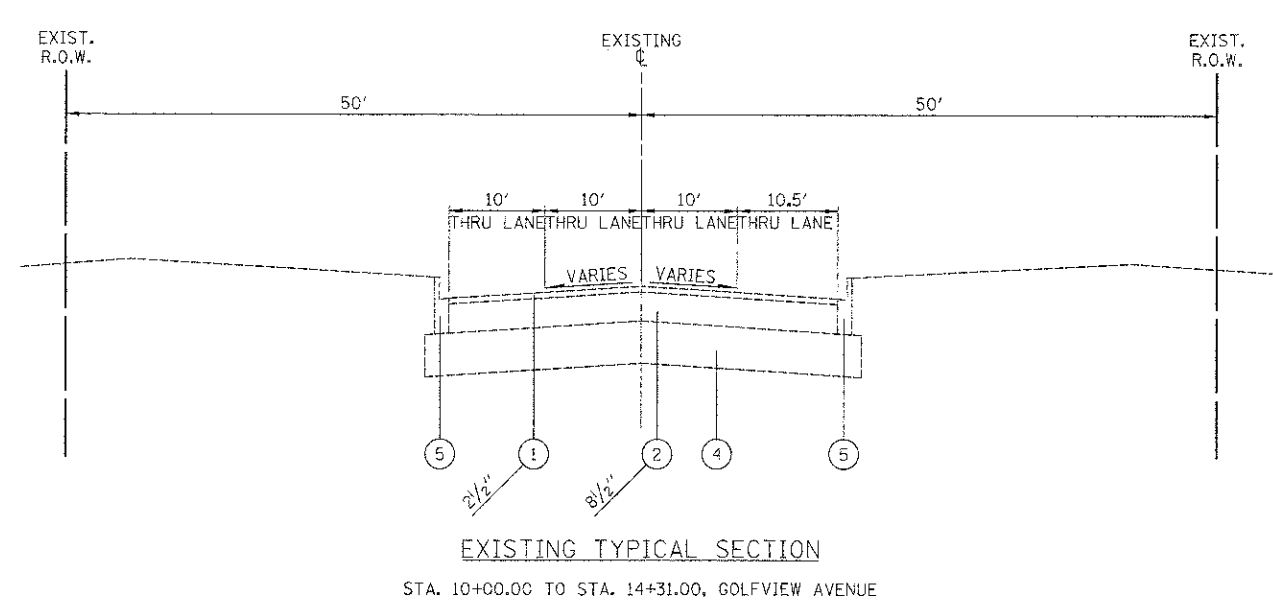
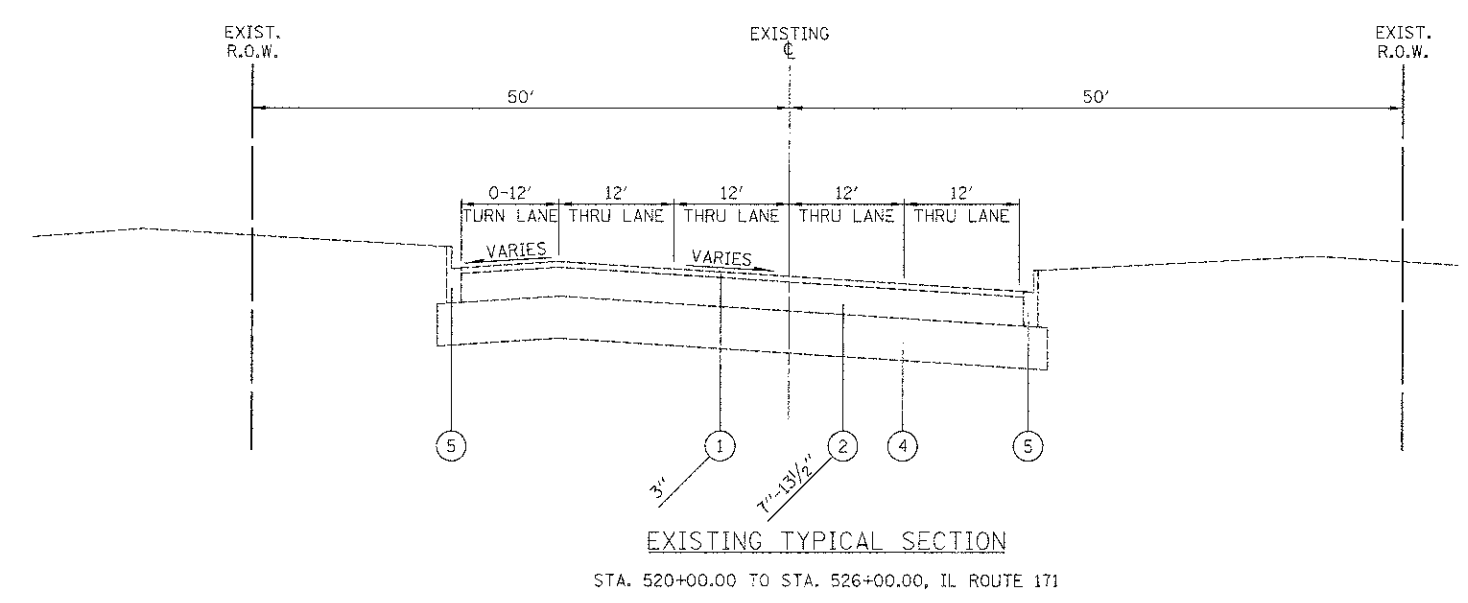
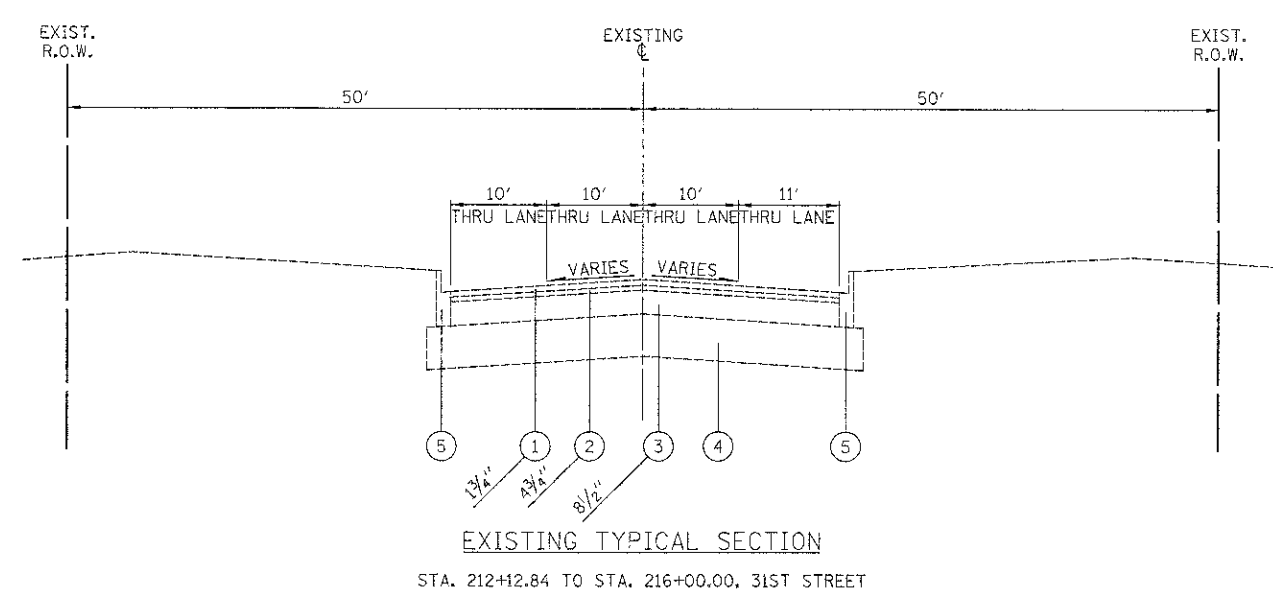
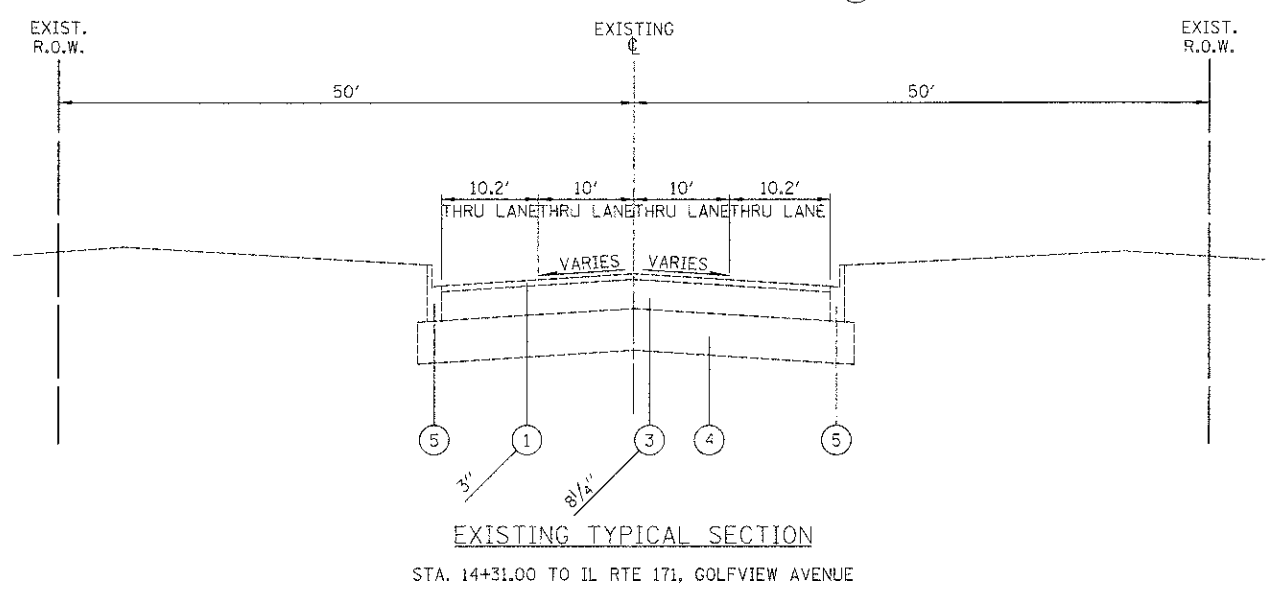
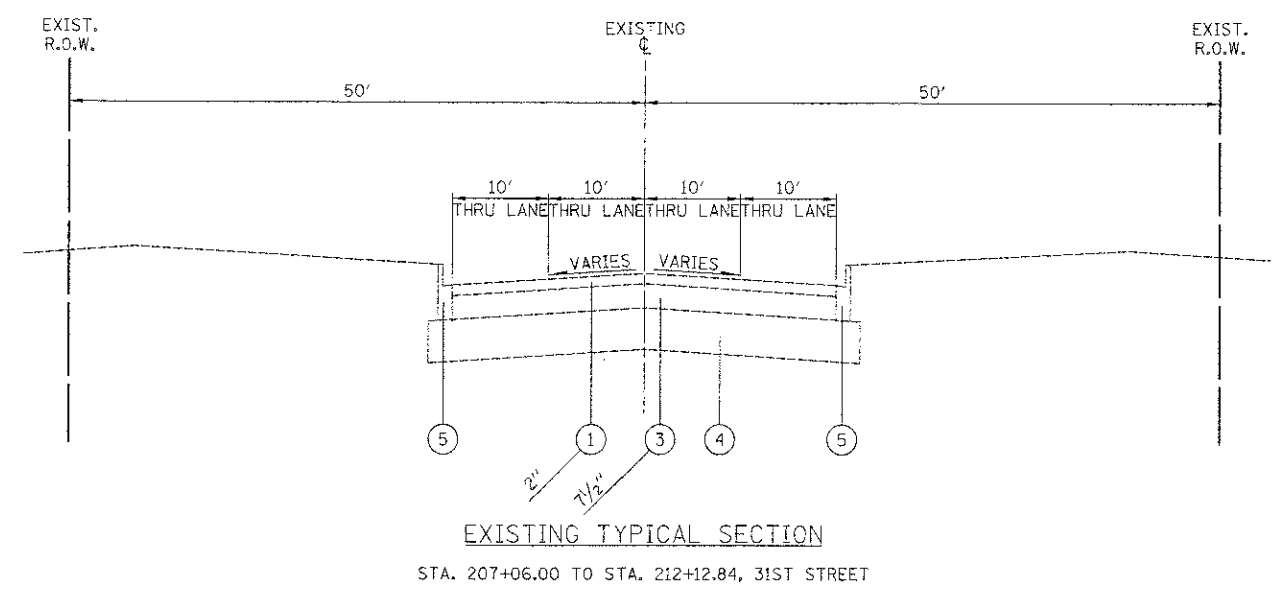
CODED PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	0031	0042	0044	0021			
				ROADWAY	SAFETY	LANDSCAPING	TRAINEES	OTHER	TRAFFIC SIGNALS			
									31ST STREET AT GOLFVIEW ROAD	IL ROUTE 171 AT GOLFVIEW ROAD	INTERCONNECT	
Δ * XX008784	FIBERGLASS 4X ENCLOSURE 24 X 24 X 12 DEEP	EACH	1		1							
Δ * XX008785	CLOSED CIRCUIT TV CAMERAS PAN ZOOM TILT	EACH	13		13							
Δ * XX008786	CLOSED CIRCUIT TV WEATHERPROOF, HEATED, FOG PROOF HOUSING	EACH	7		7							
Δ * XX008787	CLOSED CIRCUIT TV INDOOR DOME HOUSING SMOKE LENS	EACH	6		6							
Δ * XX008788	WIRELESS ACCESS POINT	EACH	10		10							

• REQUIRES SPECIAL PROVISION  
Δ INDICATES SPECIALTY ITEM

FILE NAME = ...\\02-Sum quant\2563.500.11.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:8000	DRAWN - DTE	REVISED -		SCALE: NONE	SHEET NO. 11 OF 11 SHEETS	STA.	TO STA.	3704	12-F3000-23-PK	COOK	133	14
	PLOT DATE = 11/28/2012	CHECKED - GAB	REVISED -							<b>CONTRACT NO. 63764</b>			
		DATE - 10/22/2012	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



FILE NAME =	USER NAME = dte	DESIGNED - DTE	REVISED -
...\\03-Tgproela\2563_TVP_81.dgn		DRAWN - DTE	REVISED -
		CHECKED - GAB	REVISED -
		DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING TYPICAL SECTIONS</b>	
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	133	15
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.

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.

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



STATION TO STATION	EARTH EXCAVATION																		
	STAGE I			STAGE II			STAGE III			STAGE IV			STAGE V			TOTALS BY 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)	(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
GOLFVIEW AVENUE 10+50 TO 16+00	---	---	---	151.9	0.0	151.9	92.1	0.0	92.1	69.2	0.0	69.2	0.0	0.0	0.0	0.0	313.2	0.0	313.2
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	7189.0	0.0	7189.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	---	7189.0	0.0	7189.0
TOTALS	7603.9	0.0	7603.9	394.4	0.0	394.4	727.3	51.0	676.3	81.6	0.0	81.6	539.6	0.0	539.6	9346.8	51.0	9295.8	
ADJUSTED QUANTITY																	55	9300	

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	151.9	92.1	0.0	92.1	69.2	0.0	69.2	539.6	0.0	539.6	852.8	0.0	852.8
ZOO NORTH LOT	7189.0	0.0	7189.0	144.8	0.0	144.8	155.6	0.0	155.6	12.4	0.0	12.4	0.0	0.0	0.0	7501.8	0.0	7501.8

STATION TO STATION	STAGE I		STAGE II		STAGE III		STAGE IV		STAGE V		TOTALS BY 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
GOLFVIEW AVENUE 10+50 TO 16+00	0.0	0.0	0.0	-129.1	85.5	34.5	22.9	-33.5	0.0	0.0	108.4	-128.2
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	197.0	211.3	---	---	368.2	200.3
107+00 TO 113+70.87	859.6	-4653.9	0.0	0.0	0.0	0.0	0.0	0.0	---	---	859.6	-4653.9
TOTALS BY STAGE	1273.8	-4520.2	171.2	-111.6	149.2	-292.7	219.9	177.7	164.0	-194.5	1978.1	-4941.3
CUMULATIVE TOTALS	1273.8	-4520.2	1445.0	-4631.8	1594.2	-4924.5	1814.1	-4746.8	1978.1	-4941.3		
ADJUSTED QUANTITY											1980	-4945

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	-129.1	85.5	34.5	22.9	-33.5	164.0	-194.5
ZOO NORTH LOT	859.6	-4653.9	171.2	100.6	0.0	-111.5	197.0	211.3	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 =	USER NAME = dte	DESIGNED - DTE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.U.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...\\04-Schediles\2563 SCH.02.dgn		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	133	19	
PLOT SCALE = 1/8" = 1' = 1/8"		CHECKED - GAB	REVISED -			CONTRACT NO. 63764					
PLOT DATE = 11/28/2012		DATE - 10/22/2012	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.				

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 - 12"	PAVEMENT MARKING TAPE, TYPE III - 24"	PERIMETER EROSION BARRIER	INLET FILTERS	
	44201771	70300510	70300520	70300540	70300560	70300570	28000400	28000510	
	(SQYD)	(SQFT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	
STAGE I	207+06 TO 216+00	135	0	5424	0	0	46	663	15
	106+75 TO 113+70.87	66	0	0	0	0	0	881	14
STAGE II	207+06 TO 216+00	0	0	3606	0	0	10	261	5
	10+58 TO 26+14.88	0	36.4	1388	299	96	0	0	2
	100+00 TO 110+00	0	0	2197	0	0	12	0	6
STAGE III	207+06 TO 216+00	0	0	6984	0	0	10	0	0
	10+58 TO 26+14.88	0	0	1060	0	0	0	0	0
	100+00 TO 110+00	0	0	670	0	0	0	0	0
STAGE IV	10+58 TO 26+14.88	0	0	572	0	0	0	0	0
	100+00 TO 106+75	0	0	841	0	0	0	0	5
STAGE V	19+10 TO 26+14.88	0	0	0	0	0	0	567	7
TOTALS	201	36.4	22742	299	96	78	2372	54	

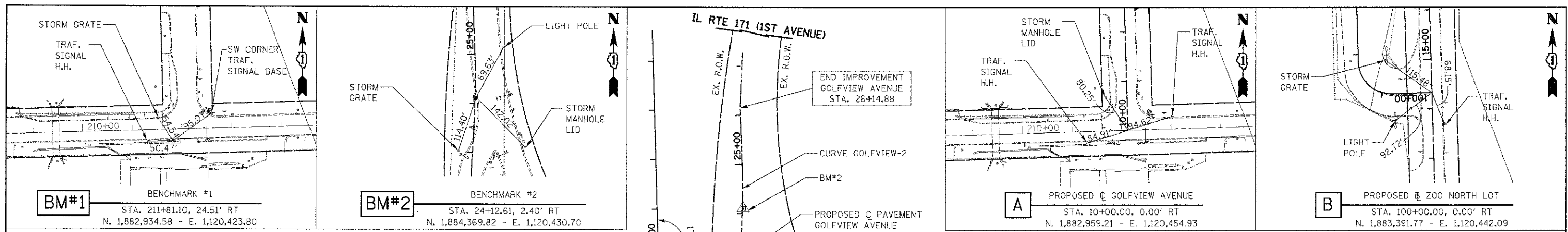
STATION	SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE A	RELOCATE SIGN PANEL ASSY - TYPE B	RELOCATE SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	SIGN AND POST	
	72000100	72400100	72400500	72400600	72400710	72800100	X0326696	
	(SQFT)	(EACH)	(EACH)	(EACH)	(SQFT)	(FOOT)	(EACH)	
31ST STREET	207+26 TO 216+00	9	0	2	3	0	201	0
GOLFVIEW AVENUE	10+58 TO 26+14.88	54.68	1	0	1	16	205	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	406	20	

STATION	SEEDING, CLASS 2A	SEEDING (SPECIAL)	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING, SALT TOLERANT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TOPSOIL FURNISH AND PLACE, 24"	
	25000210	K1005421	25000400	25000600	25200110	25100630	28000250	21101685	
	(ACRE)	(ACRE)	(POUND)	(POUND)	(SQYD)	(SQYD)	(POUND)	(SQYD)	
31ST STREET	207+26 TO 216+00	0.39	0.00	44.60	44.60	500	1895	39.00	180
GOLFVIEW AVENUE	10+58 TO 26+14.88	0.25	0.01	15.00	15.00	0	1199	25.00	0
ZOO NORTH LOT	100+70 TO 113+70.87	0.79	0.00	47.40	47.40	0	3830	78.87	0
TOTALS	1.43	0.01	107.00	107.00	500	6924	142.87	180	
ADJUSTED QUANTITY	1.50	0.25	104	104			143		

		TOPSOIL EXCAVATION					TOTALS BY STATION
STATION TO STATION		STAGE I	STAGE II	STAGE III	STAGE IV	STAGE V	
		(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	32.1	2.8	0.0	34.9
	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	29.2	0.0	115.3
	107+00 TO 113+70.87	702.5	0.0	0.0	0.0	0.0	702.5
TOTALS		787.4	61.7	156.4	32.0	117.8	1155.3*

		TOPSOIL PLACEMENT					TOTALS BY STATION
STATION TO STATION		STAGE I	STAGE II	STAGE III	STAGE IV	STAGE V	
		(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	9.5	---	84.8
	16+00 TO 26+14.88	---	---	0.0	---	123.6	123.6
ZOO NORTH LOT	100+70 TO 107+00	---	93.6	---	30.5	---	124.1
	107+00 TO 113+70.87	261.5	---	---	---	---	261.5
TOTALS		563.6	93.6	148.4	40.0	123.6	969.2*

\* EXCESS TOPSOIL EXCAVATION WILL BE PAID FOR AS EARTH EXCAVATION



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

31ST STREET  
EXISTING  $\phi$  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  $\phi$  COORDINATE TABLE

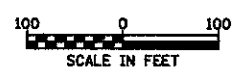
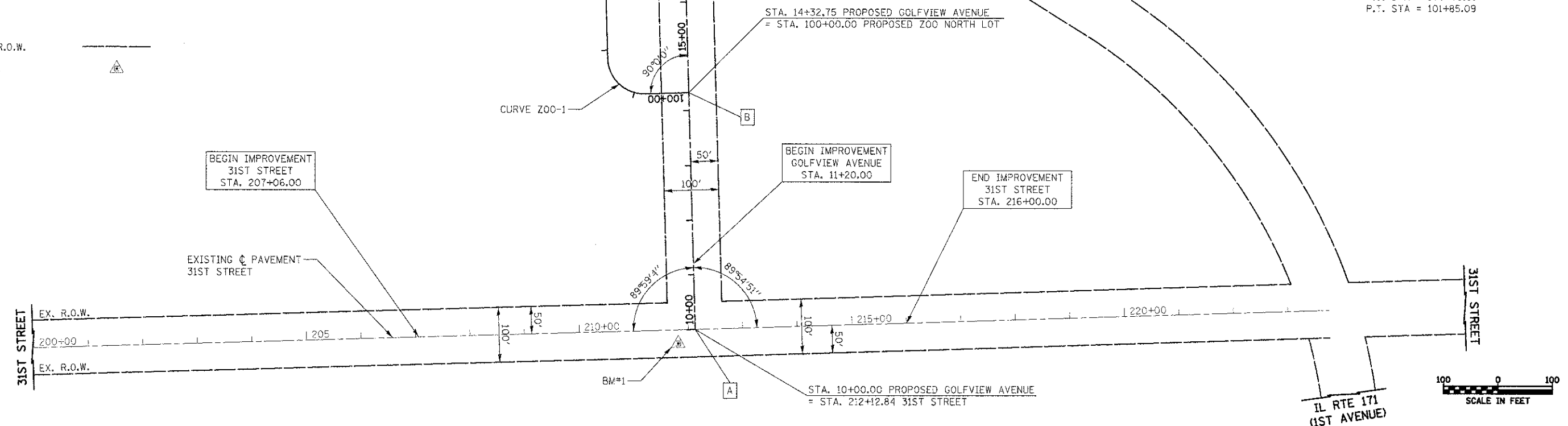
STATION	NORTHING	EASTING
10+00.00	1,882,944.30	1,119,948.31
14+32.75	1,882,959.21	1,120,454.93
19+10.00	1,883,868.81	1,120,427.93
21+19.32(PC)	1,884,078.04	1,120,421.71
21+97.56(P1)	1,884,156.24	1,120,419.39
22+75.71(PT)	1,884,234.37	1,120,423.51
23+46.42(PC)	1,884,304.98	1,120,427.23
24+37.21(P1)	1,884,395.64	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  
 $\Delta$  = 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  
 $\Delta$  = 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  
 $\Delta$  = 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

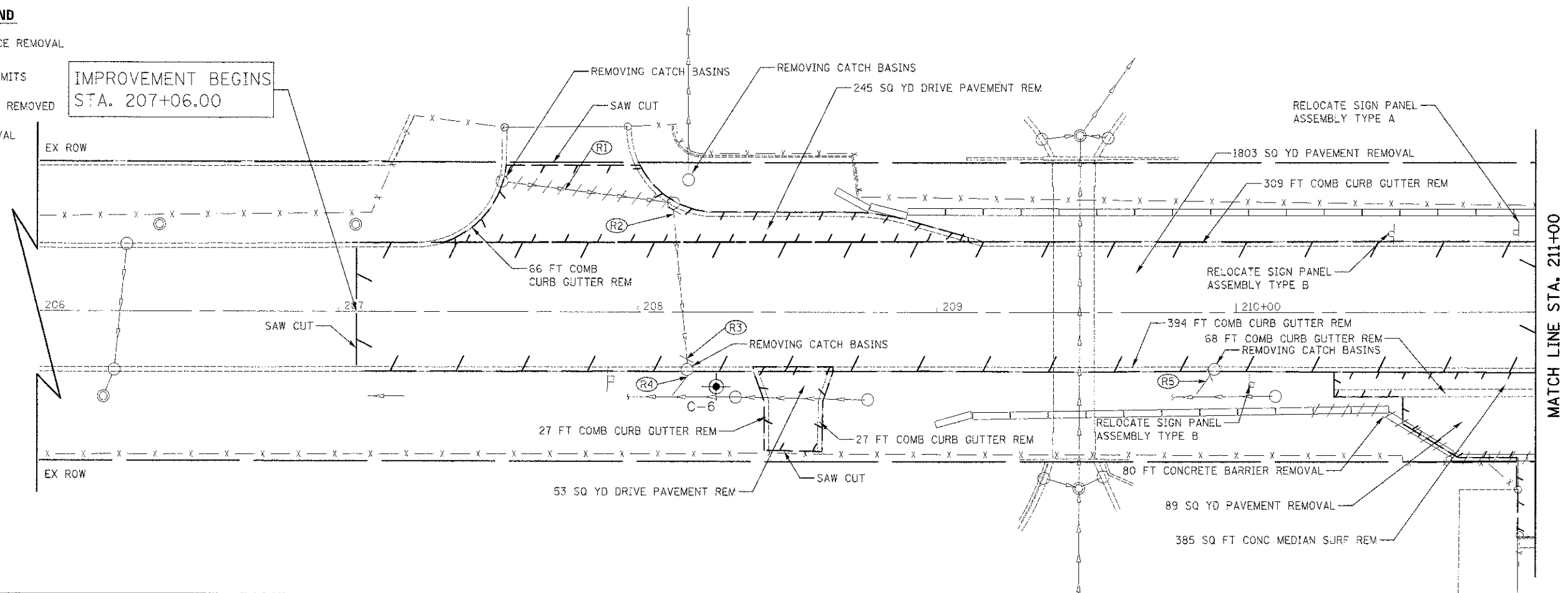
LEGEND  
 EXISTING R.O.W.   
 BENCHMARK



**REMOVAL LEGEND**

-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL

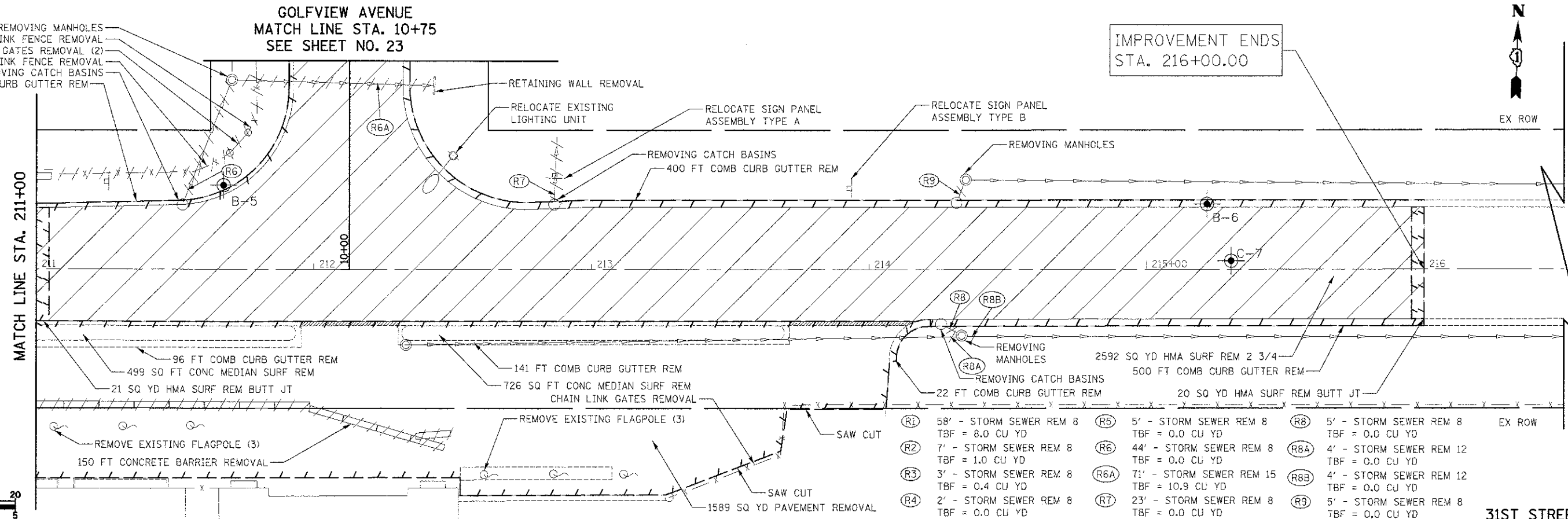
IMPROVEMENT BEGINS  
STA. 207+06.00



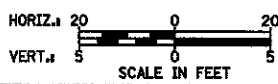
31ST STREET

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

IMPROVEMENT ENDS  
STA. 216+00.00

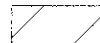





31ST STREET

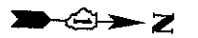


FILE NAME = ...N07-Removals\2563_REM.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 22		
PLLOT SCALE = 20.0000 / 1"=20'	CHECKED - GAB	REVISED -	SCALE: 1" = 20'			SHEET NO. 1 OF 6 SHEETS	STA. 207+26 TO STA. 216+00	CONTRACT NO. 63764				
PLLOT DATE = 11/9/2012	DATE = 10/22/2012	REVISED -	ILLINOIS FED. AID PROJECT									

**REMOVAL LEGEND**

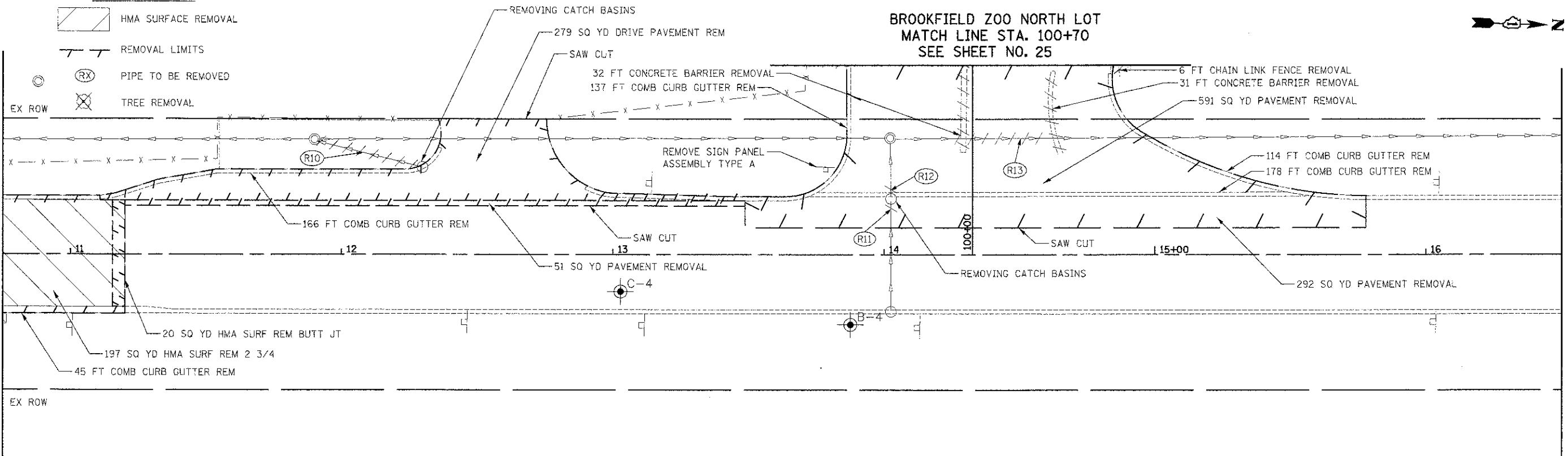
-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL

**BROOKFIELD ZOO NORTH LOT  
MATCH LINE STA. 100+70  
SEE SHEET NO. 25**



MATCH LINE STA. 10+75  
SEE SHEET NO. 22

MATCH LINE STA. 16+50



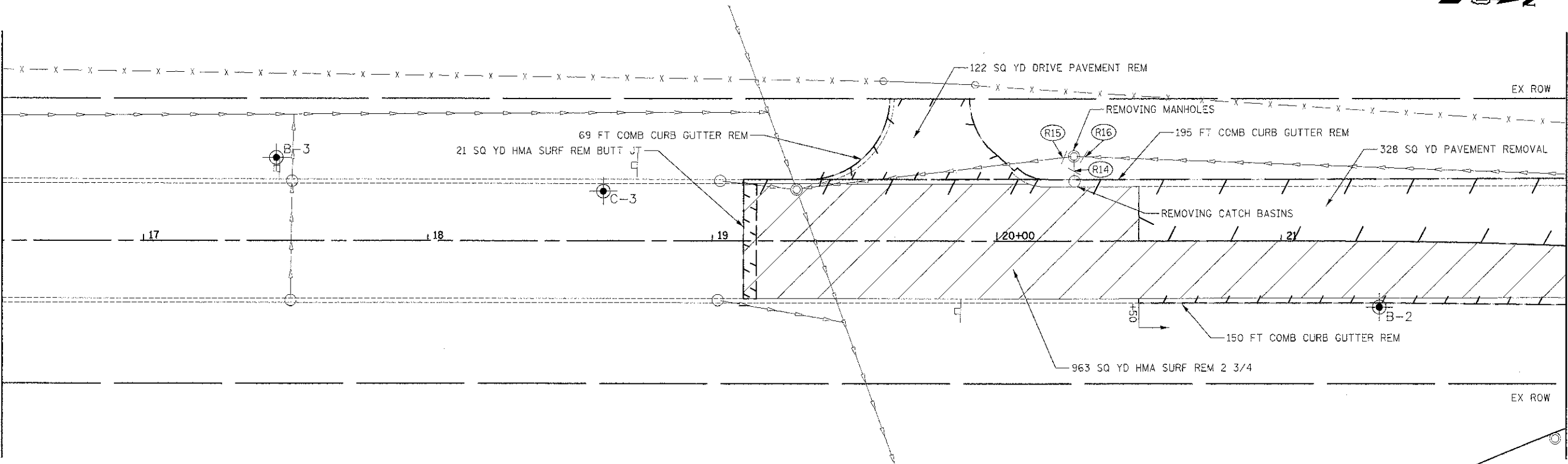
- (R10) 38' - STORM SEWER REM 8  
TBF = 0.0 CU YD
- (R11) 4' - STORM SEWER REM 12  
TBF = 0.8 CU YD
- (R12) 4' - STORM SEWER REM 12  
TBF = 0.8 CU YD
- (R13) 33' - STORM SEWER REM 15  
TBF = 10.1 CU YD

GOLFVIEW AVENUE



MATCH LINE STA. 16+50

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




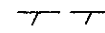


- (R14) 5' - STORM SEWER REM 8  
TBF = 0.0 CU YD
- (R15) 4' - STORM SEWER REM 15  
TBF = 0.0 CU YD
- (R16) 4' - STORM SEWER REM 15  
TBF = 0.0 CU YD

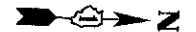
GOLFVIEW AVENUE



FILE NAME = ...N07 Removals\29621_RCM_02.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 23		
PLLOT SCALE = 20.0000' / 1"	CHECKED - GAB	DATE - 10/22/2012	REVISED -			SCALE: 1" = 20'	SHEET NO. 2 OF 6 SHEETS	STA. 10+75 TO STA. 23+00	CONTRACT NO. 63764			
PLLOT DATE = 11/9/2012			REVISED -			ILLINOIS FED. AID PROJECT						

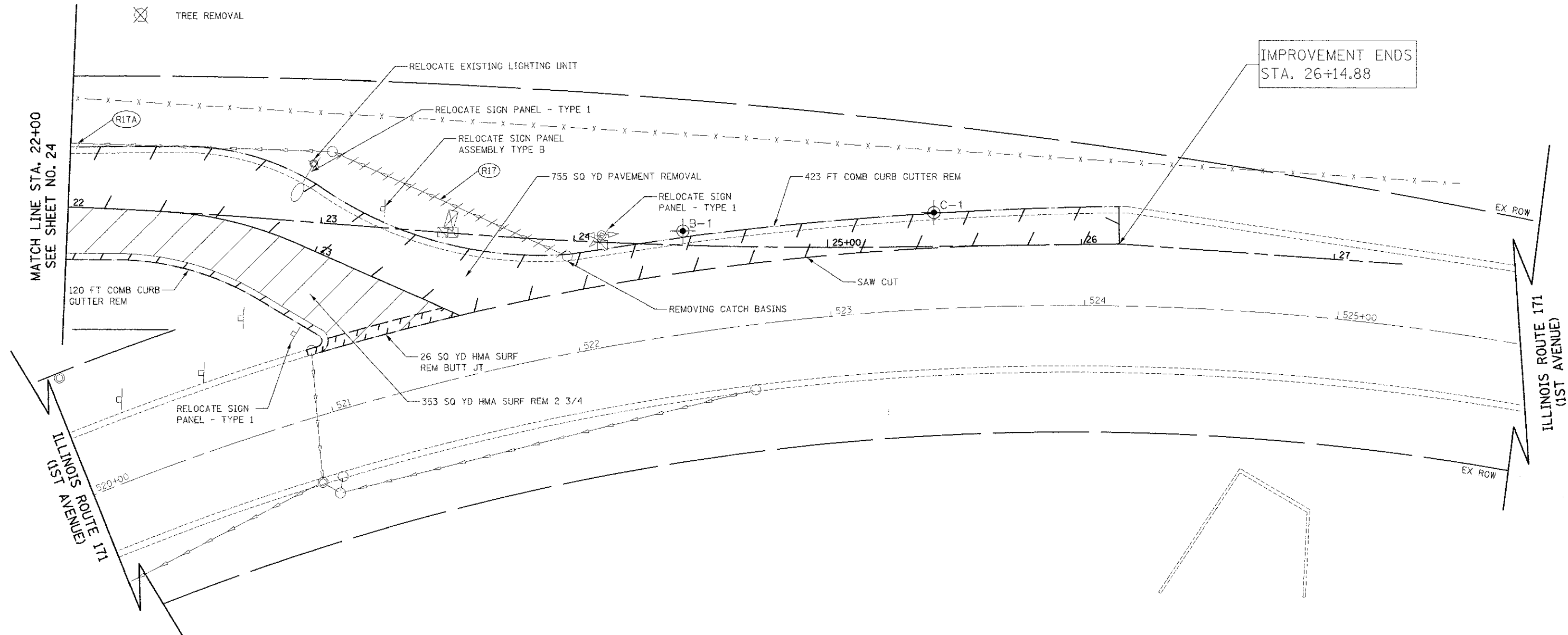
**REMOVAL LEGEND**

-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL



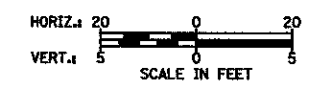
IMPROVEMENT ENDS  
STA. 26+14.88

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



- (R17) 98' - STORM SEWER REM 12  
TBF = 0.0 CU YD
- (R17A) 12' - STORM SEWER REM 15  
TBF = 0.0 CU YD

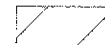
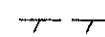


GOLFVIEW AVENUE  
IL RTE 171

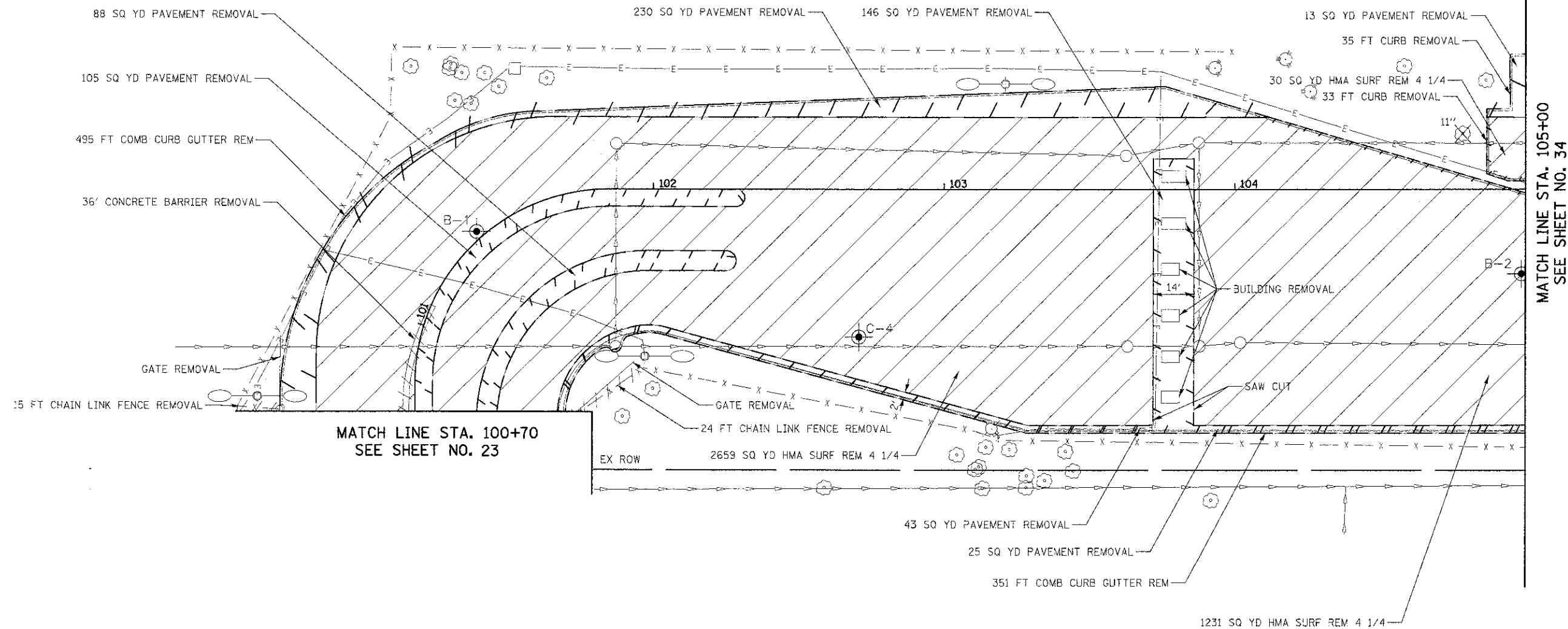


FILE NAME: ...187-Removals\2563_REM.dgn	USER NAME: dte	DESIGNED: DTE	REVISIONS:	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.I.D. RTE.: 3784	SECTION: 12-F3000-23-PK	COUNTY: COOK	TOTAL SHEETS: 133	SHEET NO.: 24		
PLOT SCALE: 20.0000 / in.	CHECKED: GAB	REVISIONS:	SCALE: 1" = 20'			SHEET NO. 3 OF 6 SHEETS	STA. 22+00 TO STA. 26+15	CONTRACT NO. 63764		ILLINOIS FED. AID PROJECT		
PLOT DATE: 11/28/2012	DATE: 10/22/2012	REVISIONS:										



**REMOVAL LEGEND**

-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL



**NOTES**


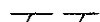


1. SEE SHEET 98 FOR LIGHTING REMOVALS

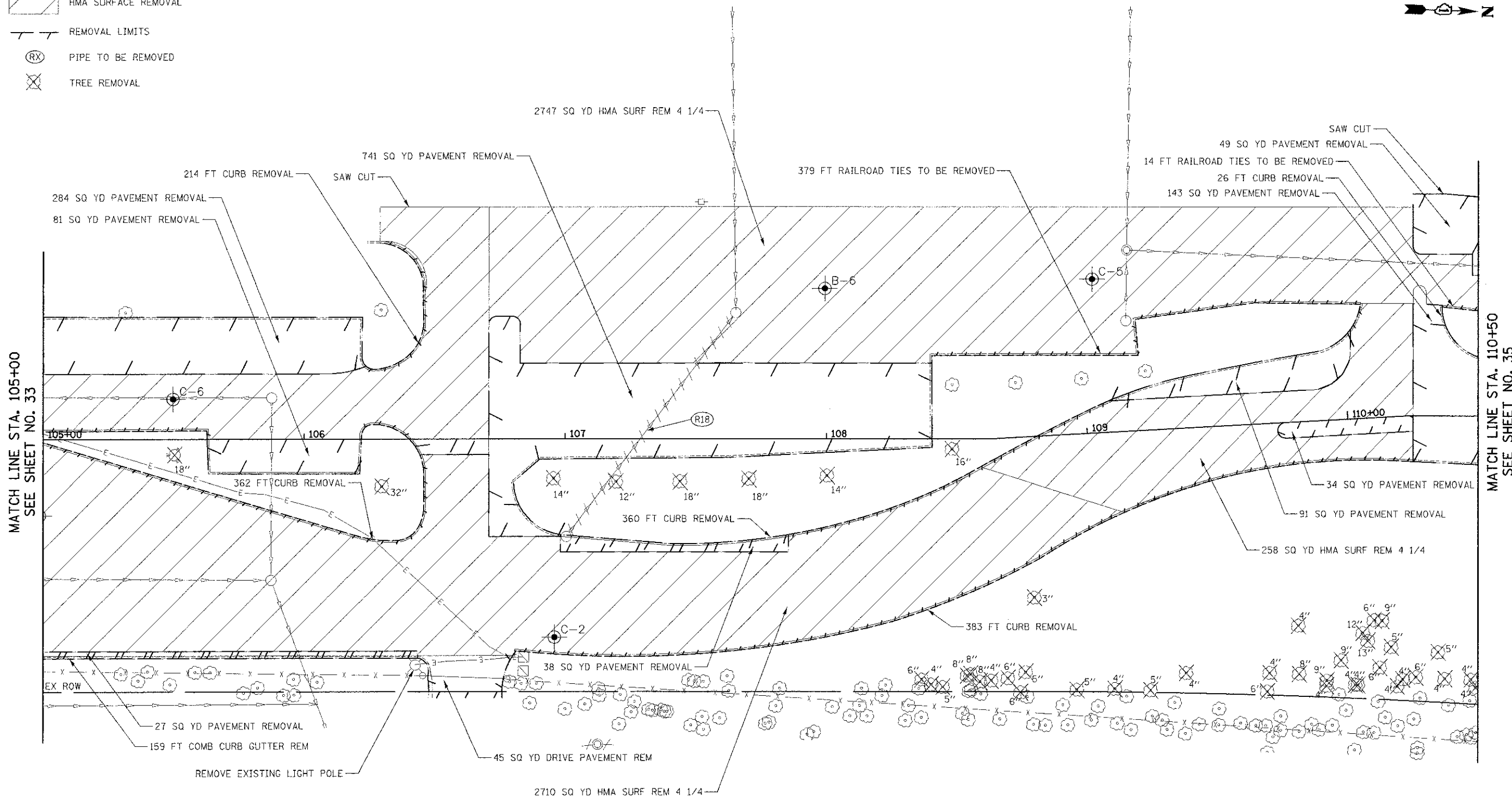
BROOKFIELD ZOO NORTH PARKING LOT



FILE NAME = ...107-Removals\2563_RCM.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	133	25	
		CHECKED - GAB	REVISED -			CONTRACT NO. 63764					
		DATE - 10/22/2012	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
				SCALE: 1" = 20'		SHEET NO. 4 OF 6 SHEETS		STA. 100+75 TO STA. 105+00			

**REMOVAL LEGEND**

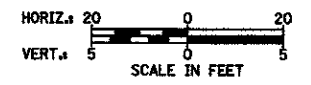
-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL



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





- NOTES**
- SEE SHEET 98 FOR LIGHTING REMOVALS

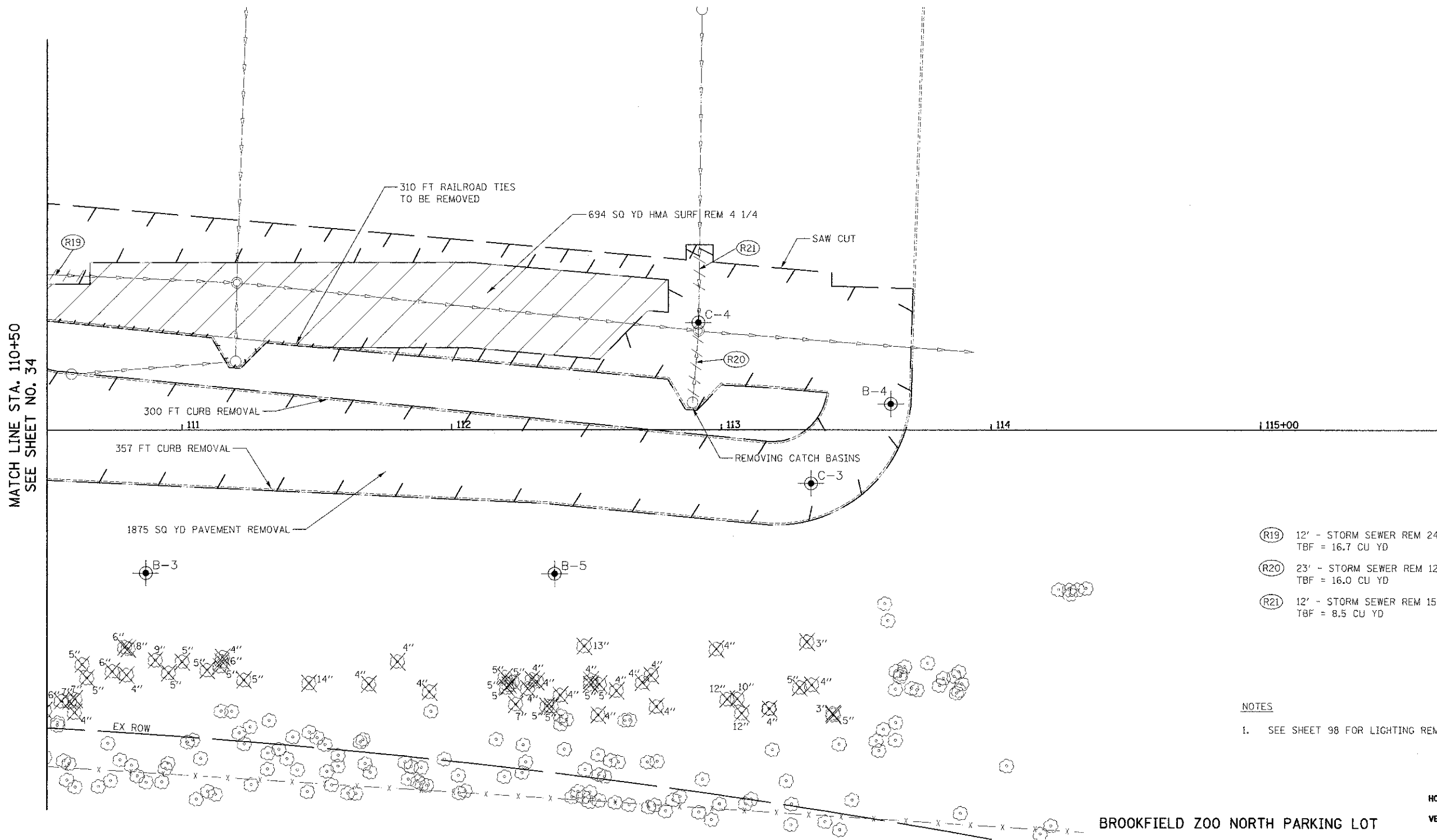
**BROOKFIELD ZOO NORTH PARKING LOT**



FILE NAME = ...107-Removals\2563_REM_95.dgn	USER NAME = dte	DESIGNED - DTE	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.U. / RTE. / SECTION	COUNTY / COOK	TOTAL SHEET / SHEETS NO. / 133 / 26	
PLOT SCALE = 20.0000' / 1" = 20'	CHECKED - GAB	REVISD -	REVISD -			SCALE: 1" = 20'	SHEET NO. 5 OF 6 SHEETS	STA. 105+00 TO STA. 110+50	CONTRACT NO. 63764
PLGT DATE = 11/28/2012	DATE - 10/22/2012	REVISD -	REVISD -			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			

**REMOVAL LEGEND**

-  HMA SURFACE REMOVAL
-  REMOVAL LIMITS
-  PIPE TO BE REMOVED
-  TREE REMOVAL



- (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

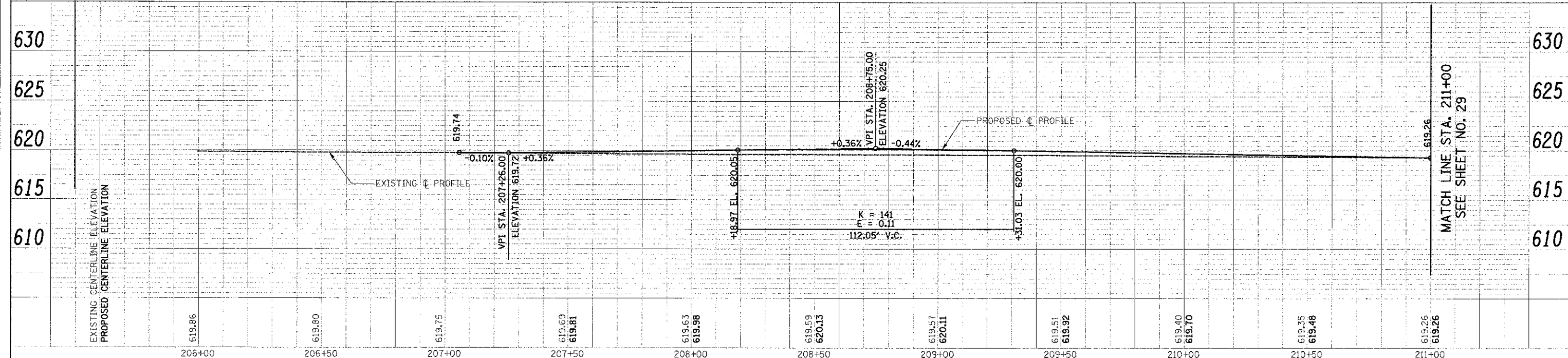
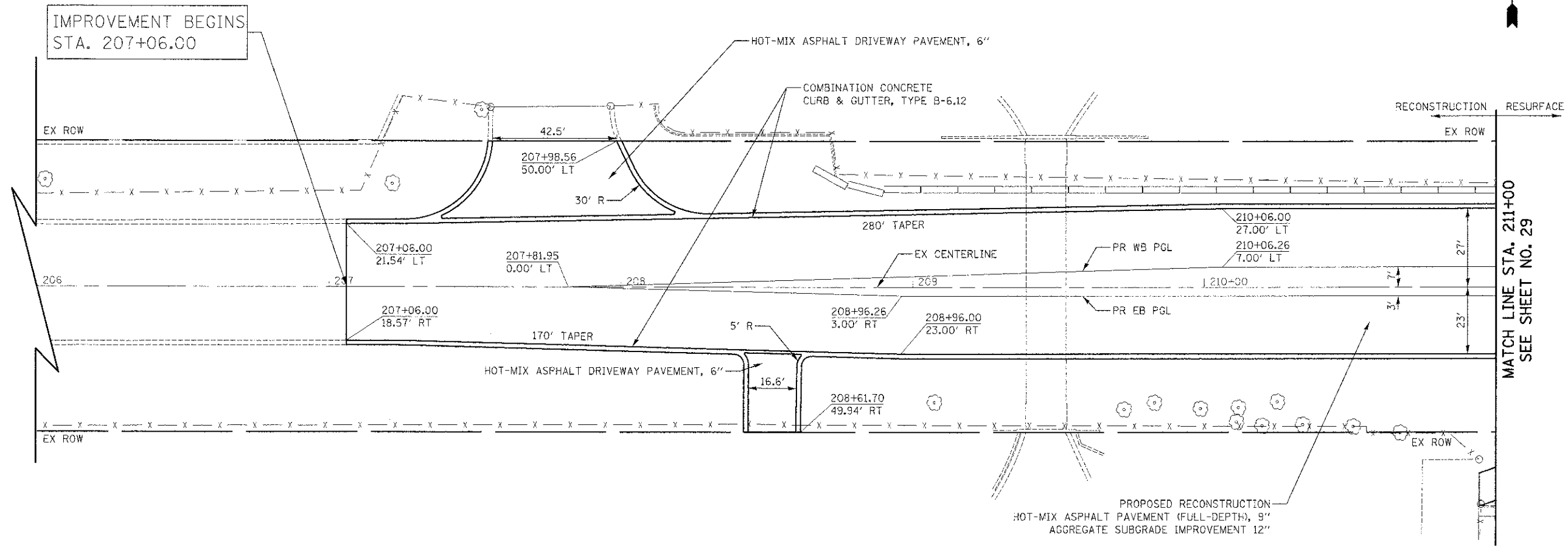


**BROOKFIELD ZOO NORTH PARKING LOT**

FILE NAME = ...107-Removal\2563_REM_05.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 27		
PLOT SCALE = 20.0000' / in.	CHECKED - GAB	REVISOR -	REVISOR -			SCALE: 1" = 20'	SHEET NO. 6 OF 6 SHEETS	STA. 110+50 TO STA. 113+71	<b>CONTRACT NO. 63764</b>			
PLOT DATE = 11/26/2012	DATE - 10/22/2012	REVISOR -	REVISOR -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

DATE	04-23
BY	...
PROJECT	...
PLAN	...
NOTE BOOK	...
NO.	...

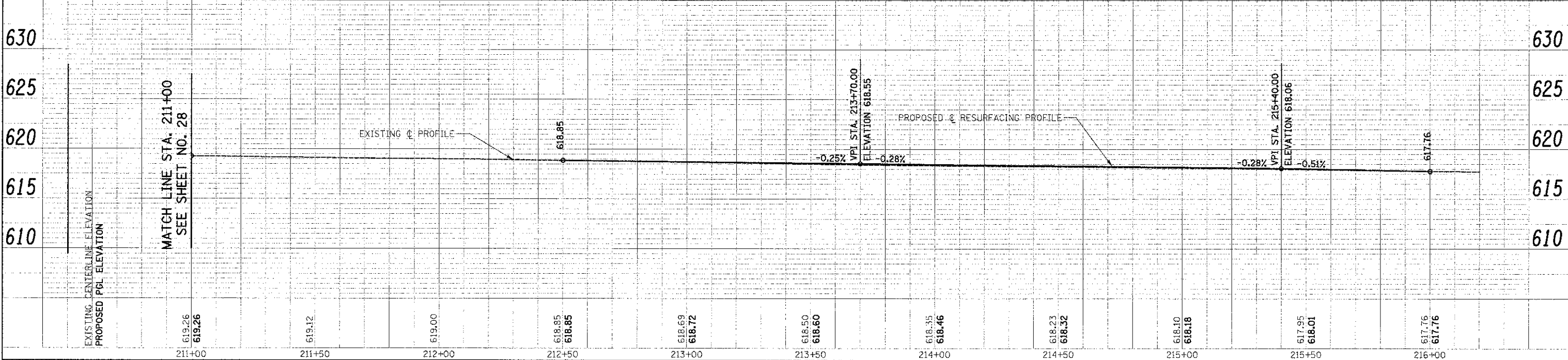
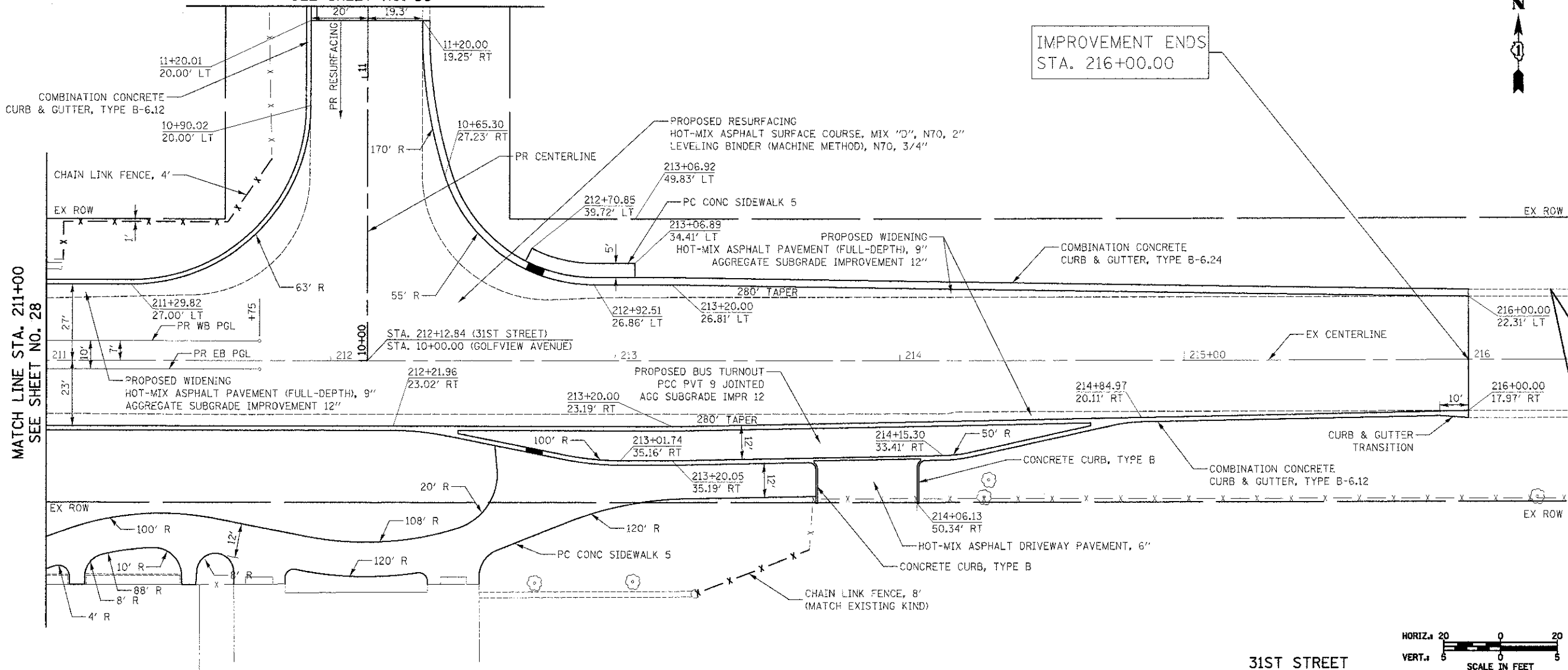
DATE	...
BY	...
PROJECT	...
PROFILE	...
NOTE BOOK	...
NO.	...



FILE NAME = ...	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS: 133	
...	...	DRAWN - DTE	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 5 SHEETS	STA. 206+00 TO STA. 211+00	FED. ROAD DIST. NO. 1 ILLINOIS	CONTRACT NO. 63764
...	...	CHECKED - GAB	REVISED -							
...	...	DATE - 10/22/2012	REVISED -							

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

IMPROVEMENT ENDS  
STA. 216+00.00



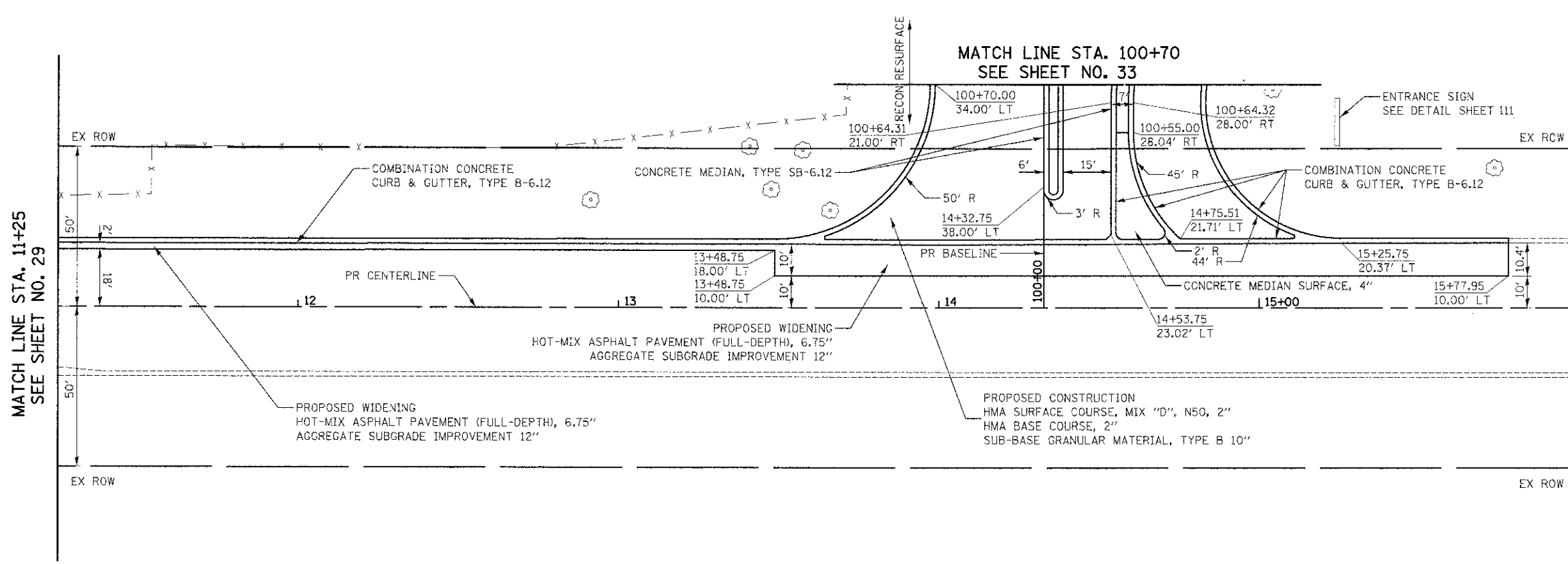
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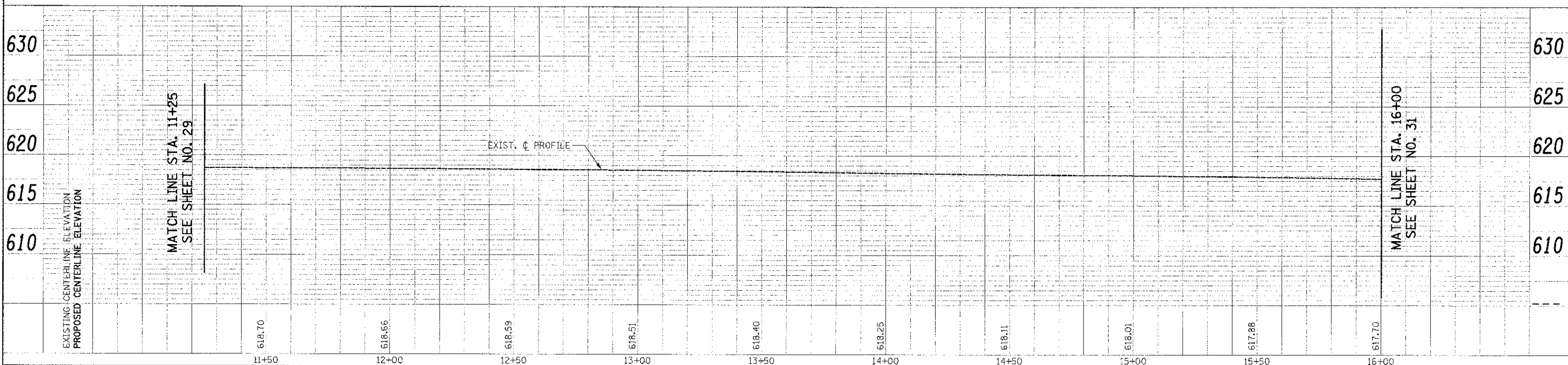
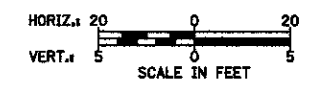
PLAN	STARTED	BY	DATE
NOTE BOOK	ALIGNMENT CHECKED		
NO.	PT. OF WAY CHECKED		
	PROP. FILE MARK		

PROFILE	REVISED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	S.M. NOTED		
	CONSTRUCTION SITE VISIT (ST/70)		



MATCH LINE STA. 16+00  
SEE SHEET NO. 31

GOLFVIEW AVENUE



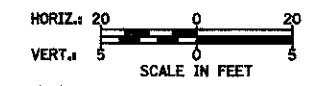
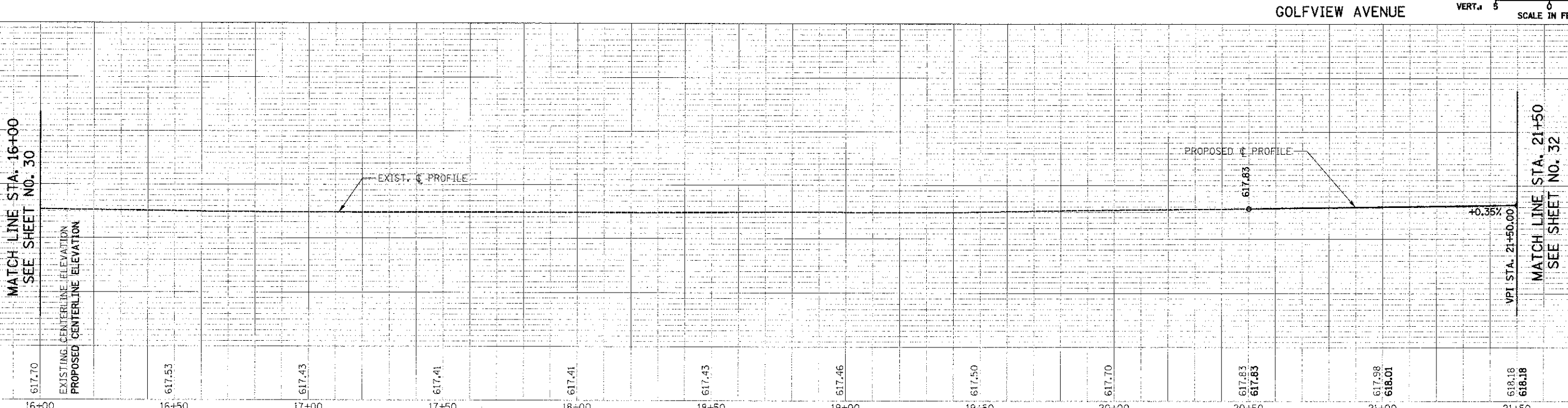
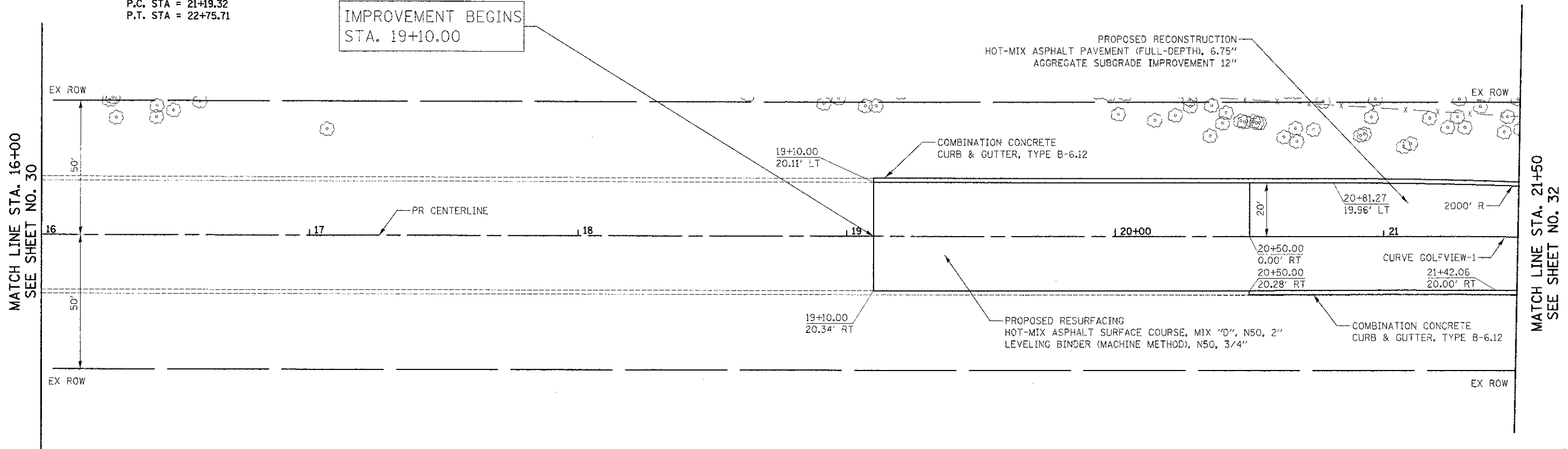
FILE NAME: \\2563.P&P.03.dgn	USER NAME: dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A.U. SECTION COUNTY TOTAL SHEETS
PLOT SCALE = 22.0000 / 1 in.	CHECKED - GAB	REVISED -	3784 12-F3000-23-PK COOK 133 30			
PLOT DATE = 11/9/2012	DATE = 10/22/2012	REVISED -	CONTRACT NO. 63764			
			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

PROP. CURVE GOLVIEW-1  
 PI STA. = 21+97.56  
 $\Delta = 4^\circ 42' 58''$  (RT)  
 $D = 3^\circ 00' 56''$   
 $R = 1,900.00'$   
 $T = 78.24'$   
 $L = 156.39'$   
 $E = 1.61'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA = 21+19.32$   
 $P.T. STA = 22+75.71$



DATE	
BY	
REVISIONS	
PLANNED	
NOTED	
NO.	

DATE	
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REVISIONS	
PLANNED	
NOTED	
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FILE NAME: ...2563_P&P_04.dgn	USER NAME: dte	DESIGNED: DTE	REVISED:	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A.U. RTE.:	SECTION:	COUNTY:	TOTAL SHEET NO.:
PLOT SCALE: 20.0/100' / in.	CHECKED: GAB	REVISED:	3784			12-F3000-23-PK	COOK	133	31
PLOT DATE: 11/9/2012	DATE: 10/22/2012	REVISED:	SCALE: 1" = 20' SHEET NO. 4 OF 5 SHEETS STA. 16+00 TO STA. 21+50			FED. ROAD DIST. NO. 1 ILLINOIS	CONTRACT NO. 63764		

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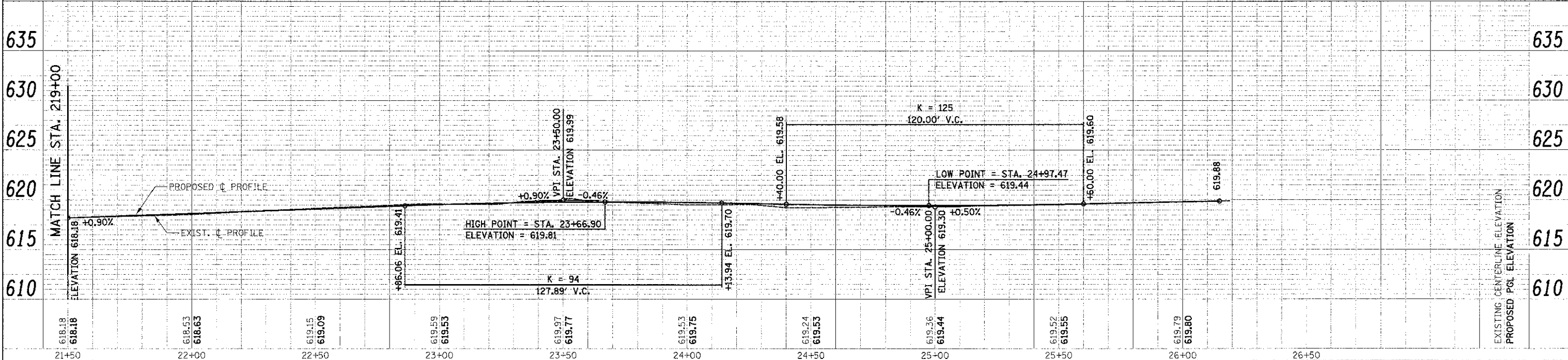
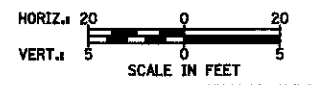
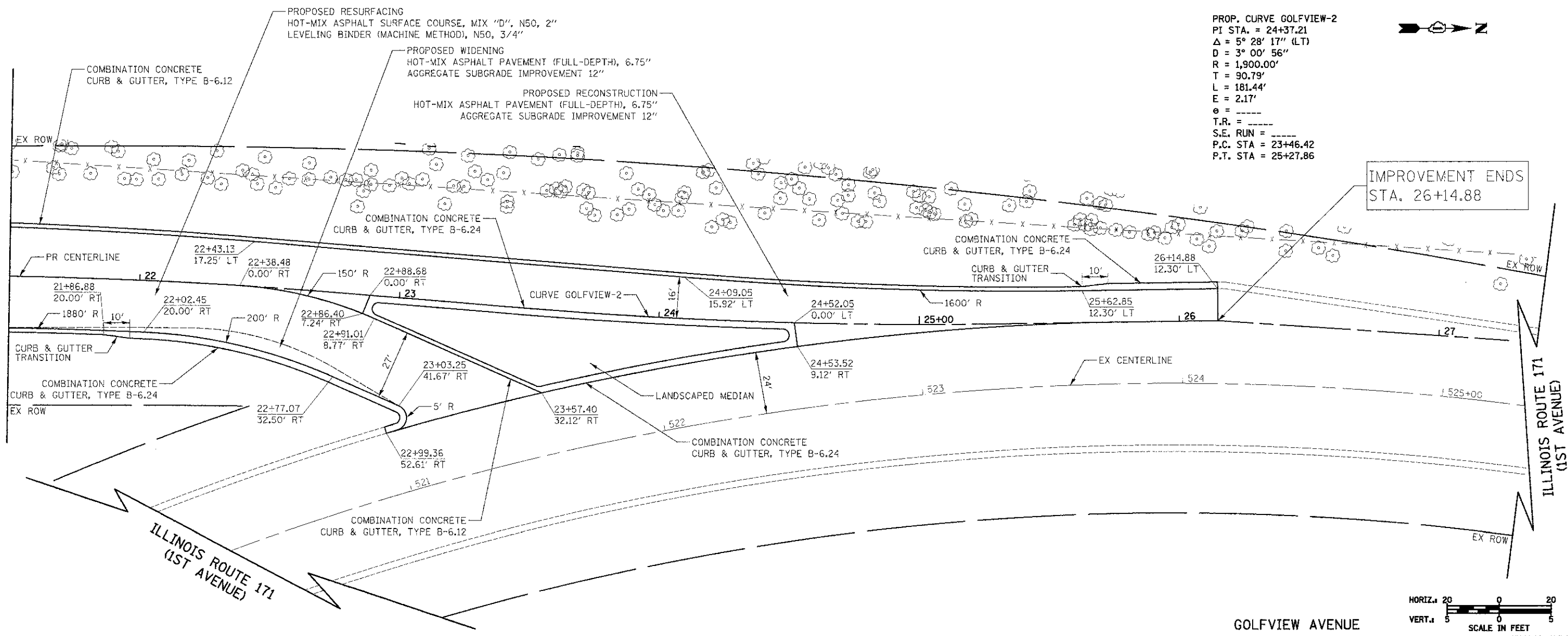
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BY	
REVISIONS	
PLANNED	
ALIGNED	
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NO. 96	
NO. 97	
NO. 98	
NO. 99	
NO. 100	

PROP. CURVE GOLFVIEW-2  
 PI STA. = 24+37.21  
 $\Delta = 5^\circ 28' 17''$  (LT)  
 $D = 3^\circ 00' 56''$   
 $R = 1,900.00'$   
 $T = 90.79'$   
 $L = 181.44'$   
 $E = 2.17'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. \text{ RUN} = \text{---}$   
 $P.C. \text{ STA} = 23+46.42$   
 $P.T. \text{ STA} = 25+27.86$



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

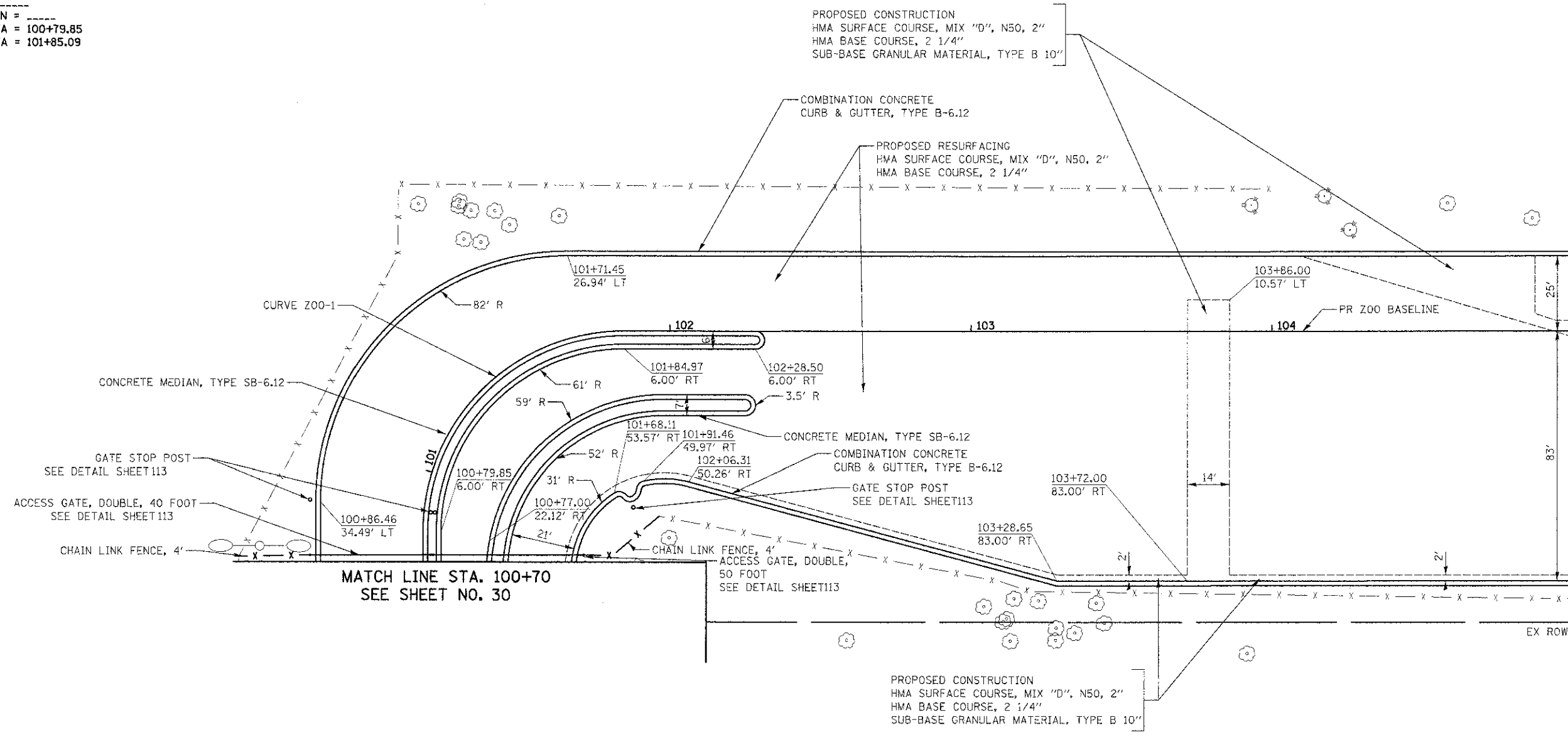
IMPROVEMENT ENDS  
 STA. 26+14.88



FILE NAME =	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> SCALE: 1" = 20' SHEET NO. 5 OF 5 SHEETS STA. 21+50 TO STA. 26+15	F.A.U. =	SECTION =	COUNTY =	TOTAL SHEET =	
...2561_P&P_05.dgn		DRAWN - DTE	REVISED -			3784	12-F3000-23-PK	COOK	33	32
		CHECKED - GAB	REVISED -			CONTRACT NO. 63764				
		DATE - 10/22/2012	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



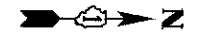
PROP. CURVE Z00-1  
 PI STA. = 101+46.85  
 $\Delta = 90^\circ 00' 00''$  (RT)  
 $D = 85^\circ 30' 58''$   
 $R = 67.00'$   
 $T = 67.00'$   
 $L = 105.24'$   
 $E = 27.75'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 P.C. STA = 100+79.85  
 P.T. STA = 101+85.09



BROOKFIELD ZOO NORTH PARKING LOT



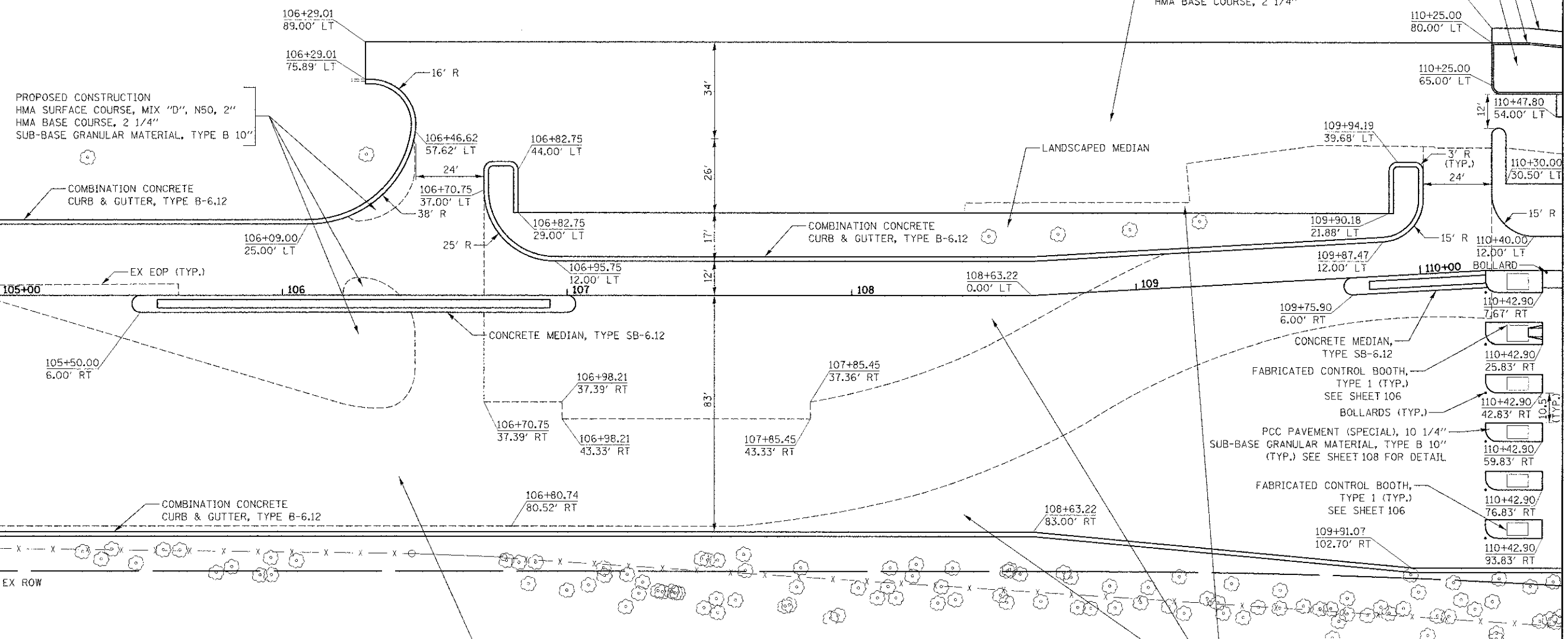
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PLOT SCALE = 20.0000' / 1" =	CHECKED - GAB	DATE - 10/22/2012	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 6 SHEETS	STA. 100+75 TO STA. 105+00	CONTRACT NO. 63764			
PLOT DATE = 11/9/2012	DATE - 10/22/2012	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



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

CONCRETE CURB, TYPE B  
 CONCRETE MEDIAN SURFACE, 4"

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

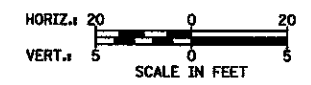


MATCH LINE STA. 105+00  
 SEE SHEET NO. 33

MATCH LINE STA. 110+50  
 SEE SHEET NO. 35

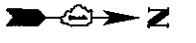
PROPOSED CONSTRUCTION  
 HMA SURFACE COURSE, MIX "D", N50, 2"  
 HMA BASE COURSE, 2 1/4"  
 SUB-BASE GRANULAR MATERIAL, TYPE B 10"

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

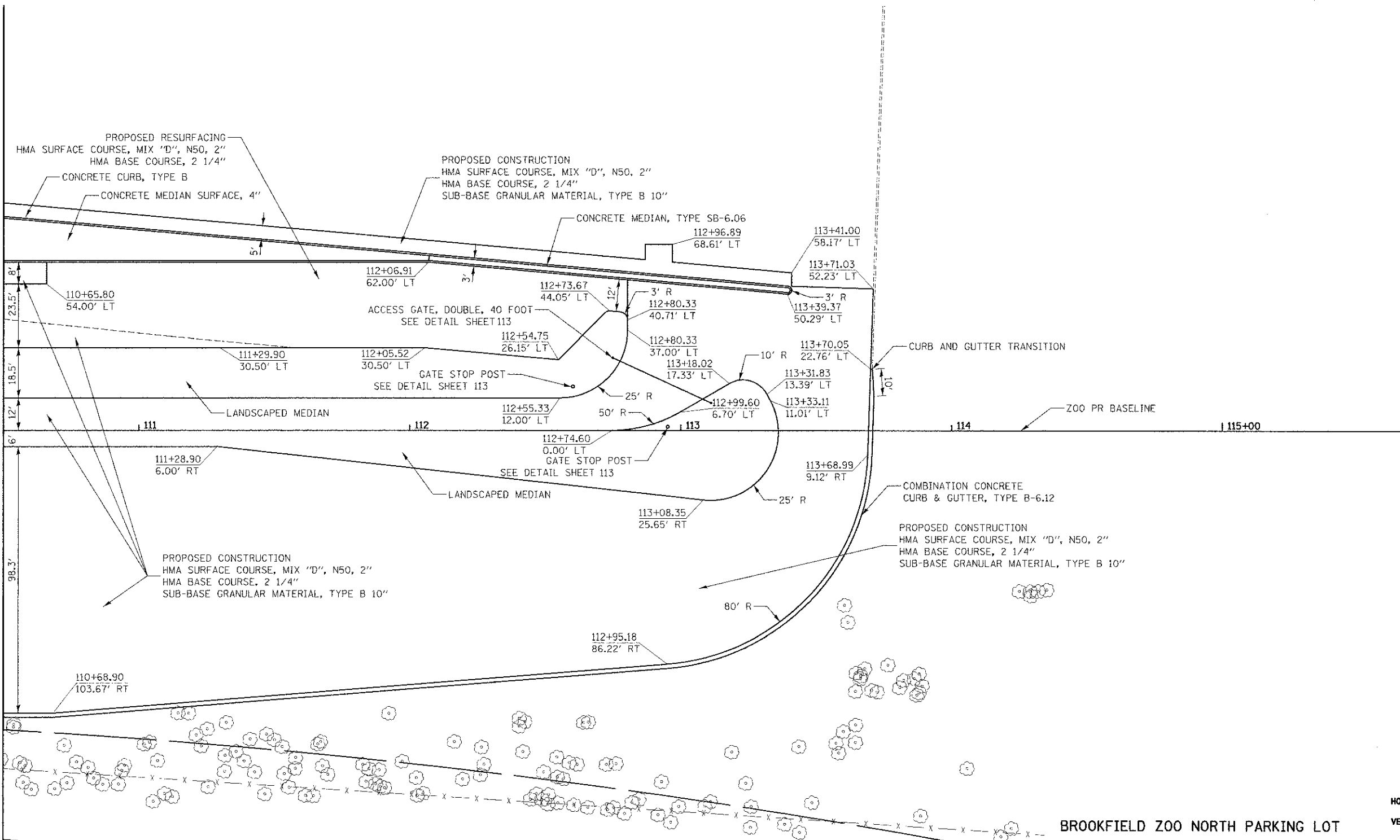


BROOKFIELD ZOO NORTH PARKING LOT

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PLOT SCALE = 20.0000' / 1" = 20'	CHECKED - GAB	REVISOR -	REVISOR -			SCALE: 1" = 20'	SHEET NO. 2 OF 6 SHEETS	STA. 105+00 TO STA. 110+50	CONTRACT NO. 63764			
PLOT DATE = 11/28/2012	DATE = 10/22/2012	REVISOR -	REVISOR -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

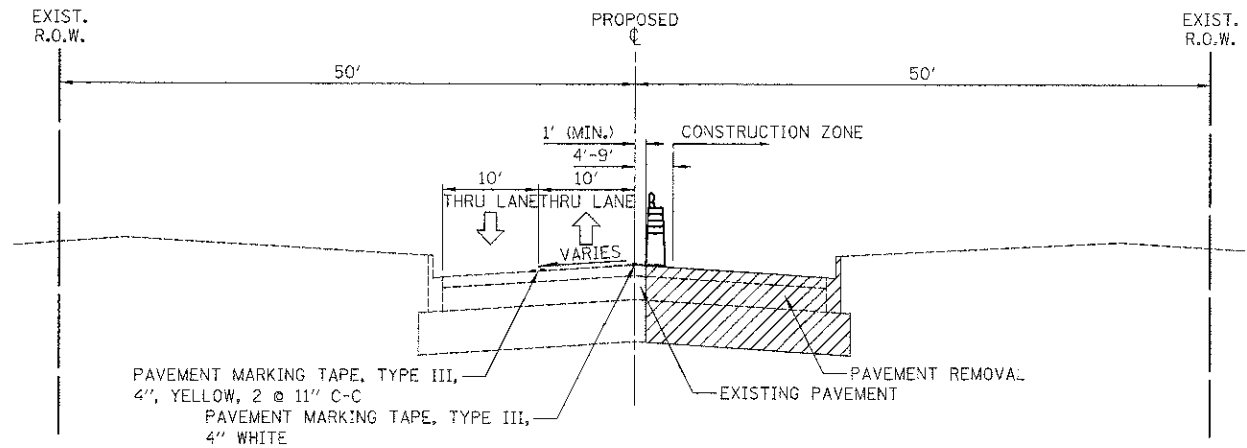


MATCH LINE STA. 110+50  
SEE SHEET NO. 34

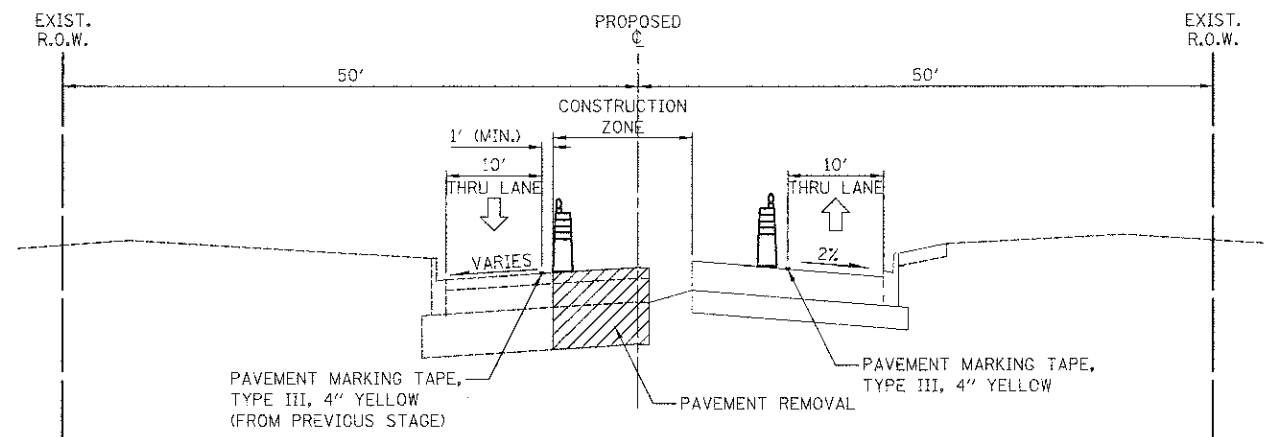


BROOKFIELD ZOO NORTH PARKING LOT

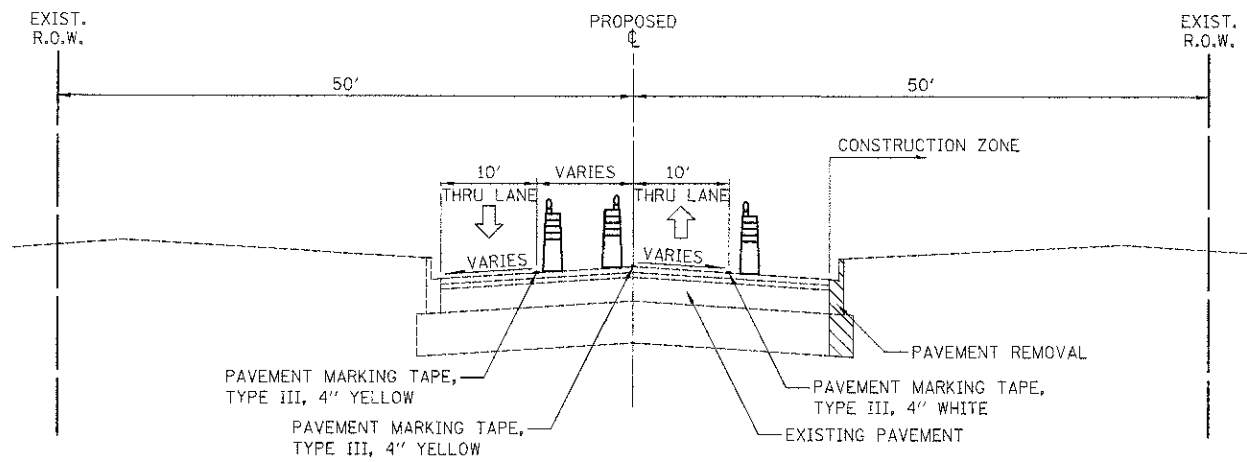
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	PLOT SCALE = 20.0000 / in.	CHECKED - GAB	REVISED -			SCALE: 1" = 20'	SHEET NO. 3 OF 6 SHEETS	STA. 110+50 TO STA. 113+71	CONTRACT NO. 63764		
	PLOT DATE = 11/28/2012	DATE - 10/22/2012	REVISED -			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT					



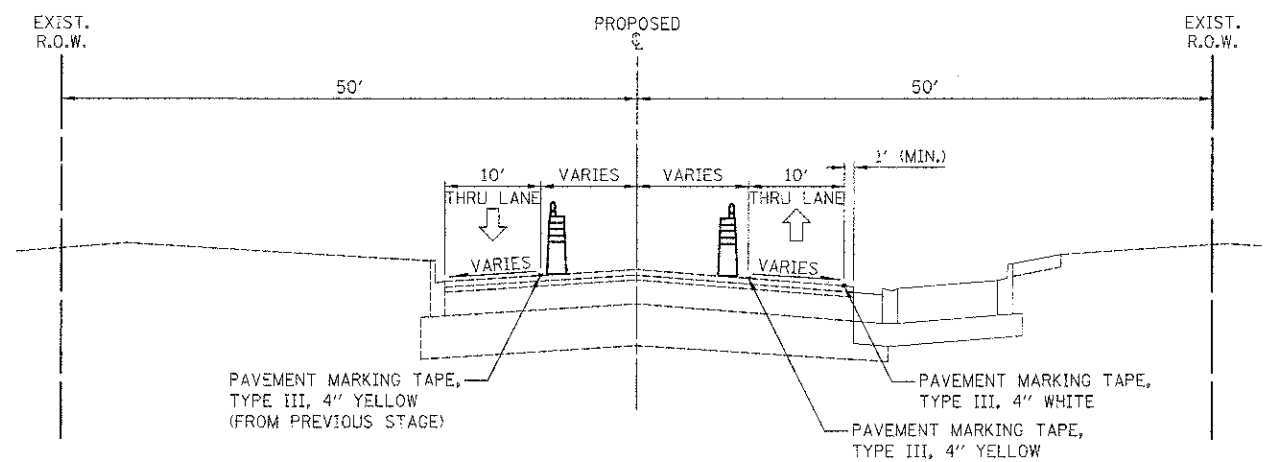
**STAGE I**  
31ST STREET  
STA. 207+06.00 TO STA. 211+00.00



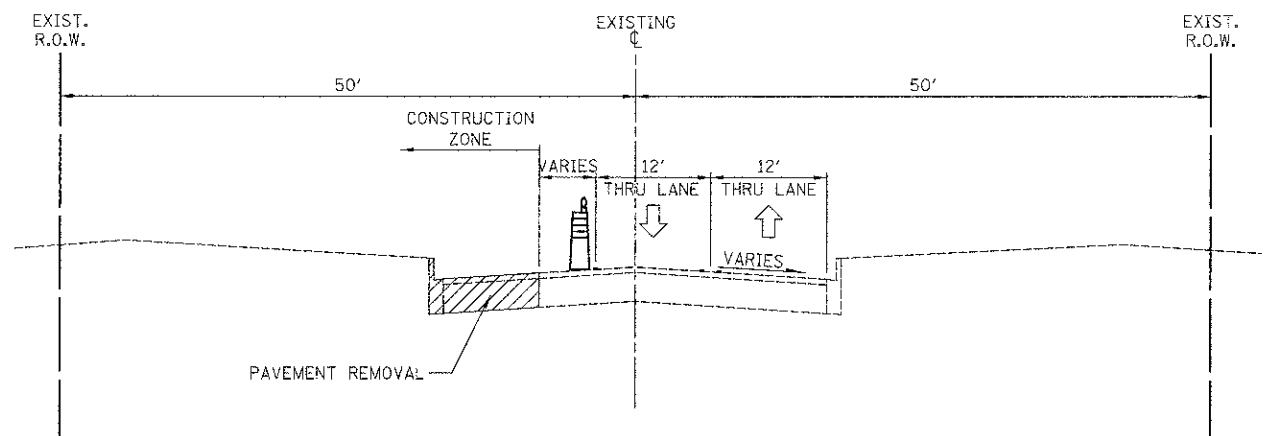
**STAGE II**  
31ST STREET  
STA. 207+06.00 TO STA. 211+00.00



**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. 15+77.95

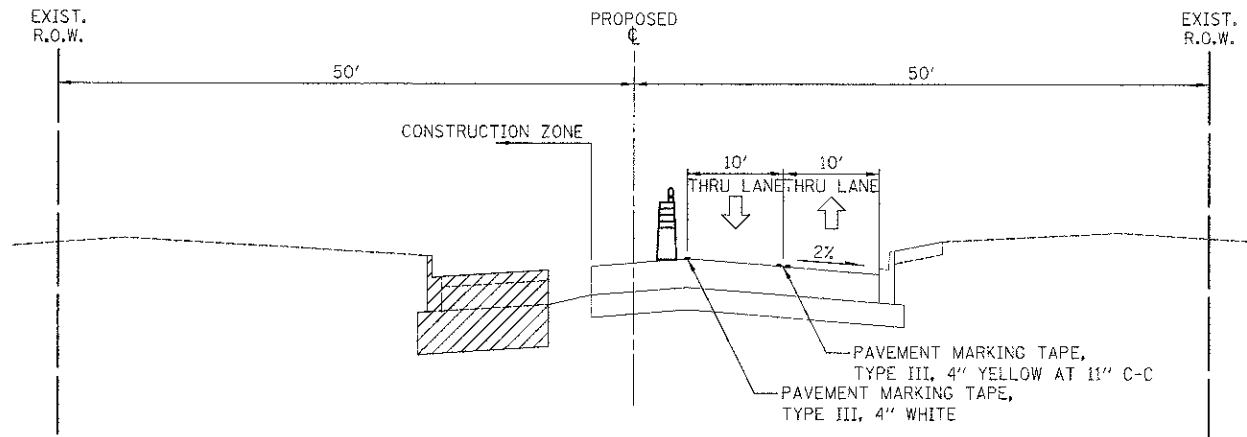
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		DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

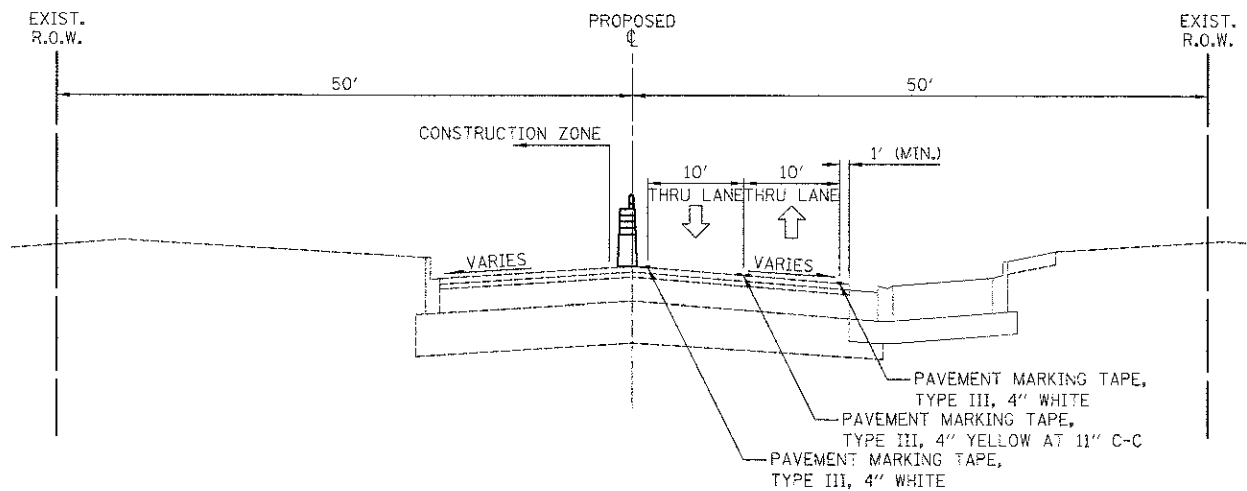
**MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS**

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

F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 36
FED. ROAD DIST. No. 1 ILLINOIS			CONTRACT NO. 63764	
			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 UNDERGROUND DETENTION 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.

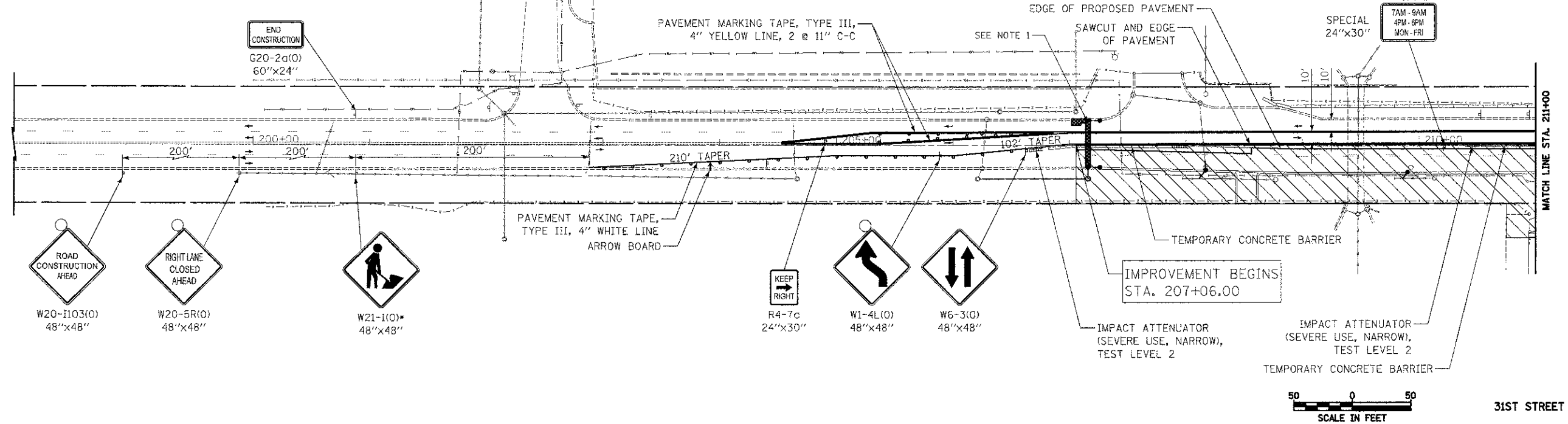
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PLCT SCALE = 50.0000 / 1 in.	CHECKED - GAB	REVISED -	REVISED -					SCALE: 1" = 50'	SHEET NO. 2 OF 12 SHEETS	STA. 207+06.00 TO STA. 216+00.00	FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT
PLCT DATE = 11/9/2012	DATE - 10/22/2012	REVISED -	REVISED -		CONTRACT NO. 63764							

**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**

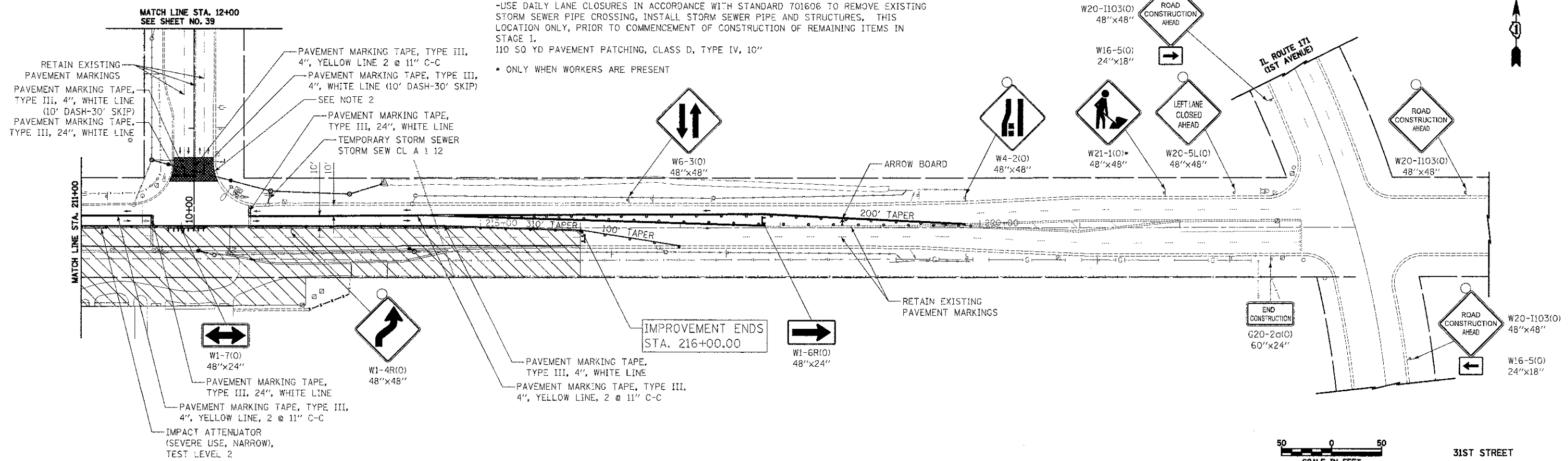
-USE DAILY LANE CLOSURES IN ACCORDANCE WITH STANDARD 701606 TO INSTALL STORM SEWER PIPE CROSSING AND STRUCTURES, THIS LOCATION ONLY, PRIOR TO COMMENCEMENT OF CONSTRUCTION OF REMAINING ITEMS IN STAGE I.  
25 SQ YD PAVEMENT PATCHING, CLASS D, TYPE IV, 10"  
\* ONLY WHEN WORKERS ARE PRESENT



31ST STREET

**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



31ST STREET

FILE NAME = ...sheet\26-MDT\2563.1407_01.dgn	USER NAME = gte	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE I</b>	F.A.I. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 38		
PLOT SCALE = 50.0000' / 1"	CHECKED - GAB	DATE - 10/22/2012	REVISED -			SCALE: 1" = 50'	SHEET NO. 3 OF 12 SHEETS	STA. 207+06.00	TO STA. 216+00.00	FED. ROAD DIST. NO. 1 (ILLINOIS)	CONTRACT NO. 63764	FED. AID PROJECT



MATCH LINE STA. 211+00  
SEE SHEET NO. 38

W1-6L(0)  
48"x24"

CLASS D PATCHES, TYPE IV, 10" (66 SQ YD)

105+00

110+00

100+00

15+00

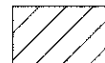
20+00

25+00

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

IMPROVEMENT BEGINS  
STA. 19+10.00

ROAD  
CLOSED  
R11-2(0)  
48"x30"

END  
CONSTRUCTION  
G20-2a(0)  
60"x24"

ROUTE 21  
BEST AVENUE

IMPROVEMENT ENDS  
STA. 26+14.88



W20-1103(0)  
48"x48"



SCALE IN FEET

GOLFVIEW AVENUE

FILE NAME =  
...shen\06-MOT\2563.MOT\_R2.dgn

USER NAME = dte

DESIGNED - KWH  
DRAWN - KWH

REVISED -  
REVISED -  
REVISED -  
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

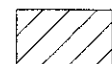
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	39

CONTRACT NO. 63764  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

**LEGEND**



TEMPORARY PAVEMENT



CONSTRUCTION WORK ZONE



DIRECTION OF TRAFFIC FLOW



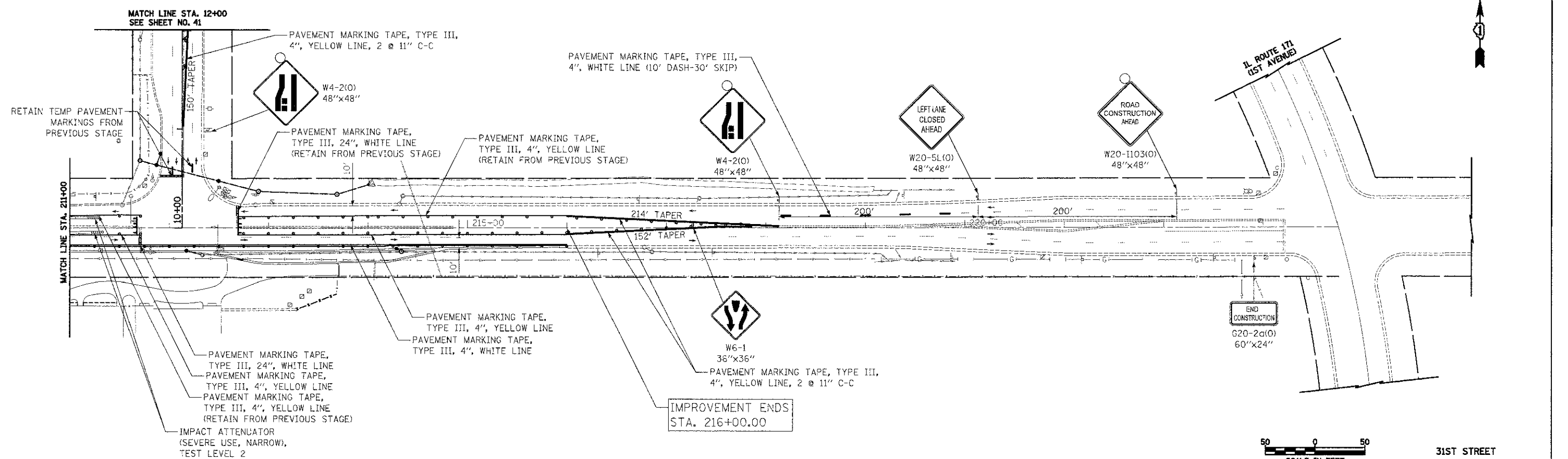
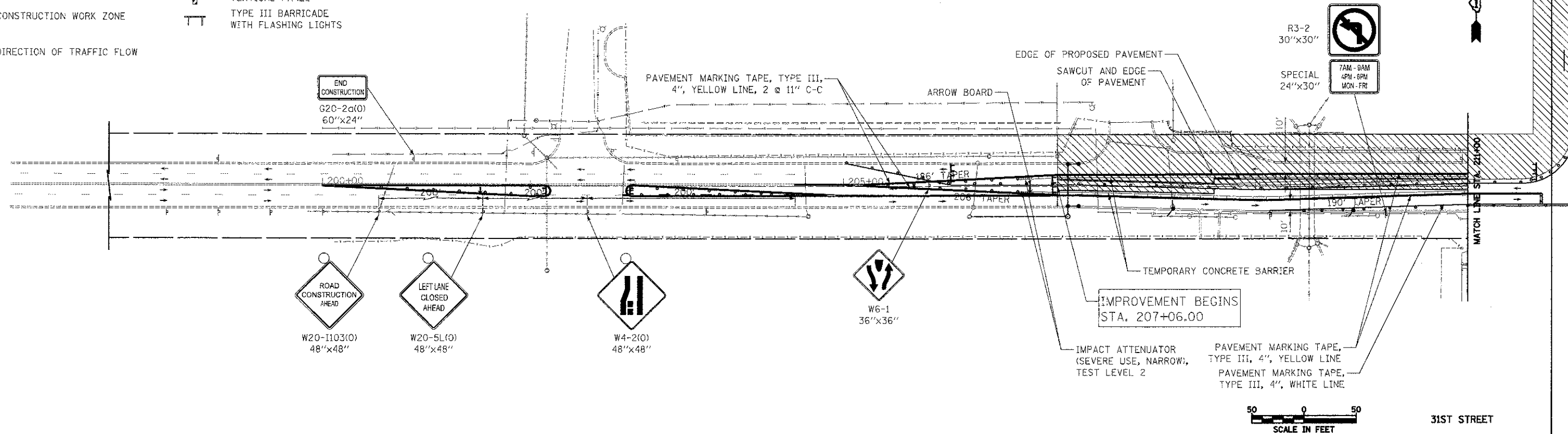
TYPE I OR II BARRICADE WITH FLASHING LIGHT



VERTICAL PANEL



TYPE III BARRICADE WITH FLASHING LIGHTS



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PLOT DATE = 11/9/2012	DATE - 10/22/2012		REVISED -

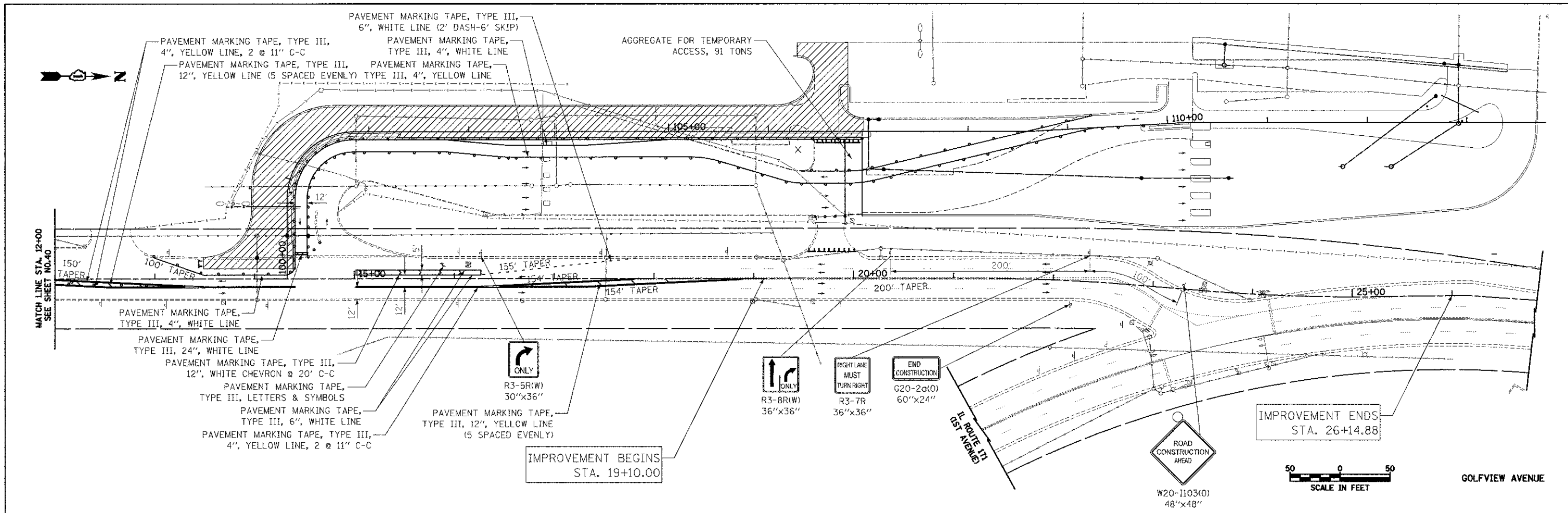
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**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.I.D. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 40
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63764	





**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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		CHECKED - GAB	REVISED -
		DATE - 10/22/2012	REVISED -







**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

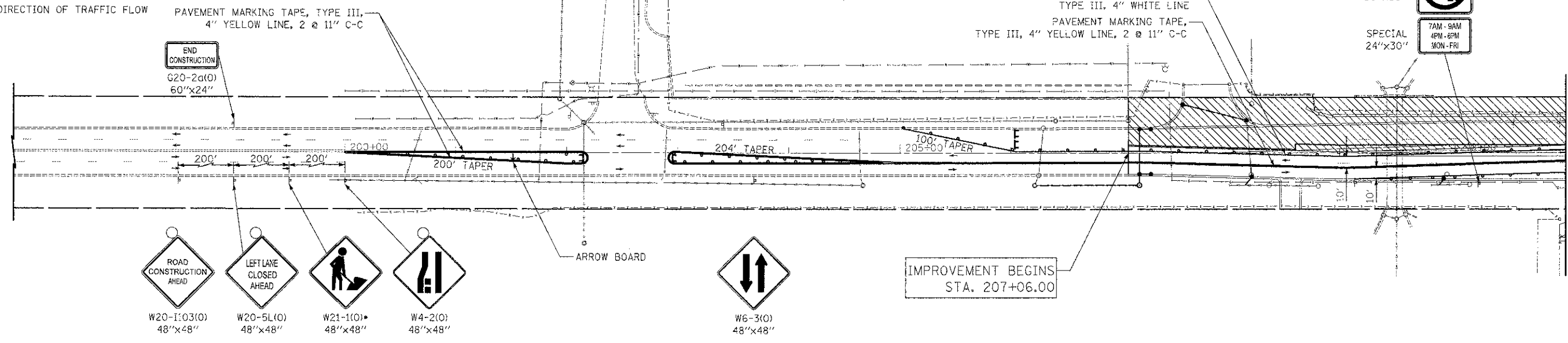
**MAINTENANCE OF TRAFFIC - STAGE II**

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

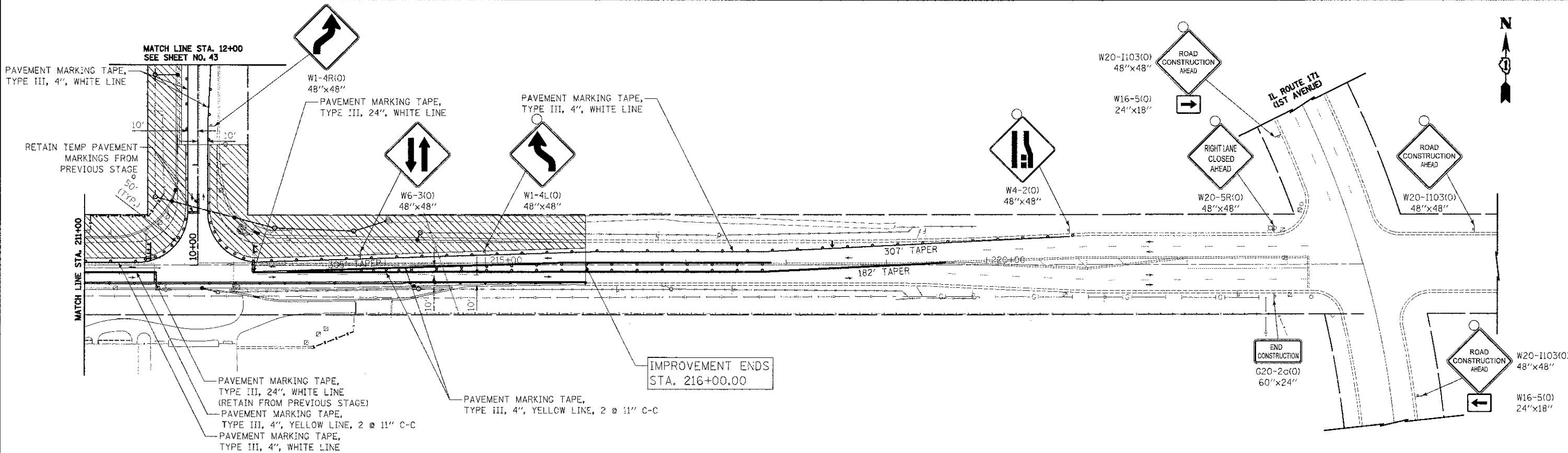
F.A.U. RTE. 3784	SECTION 12-F3000-23-PR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 41
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63764	
FED. AID PROJECT				

**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

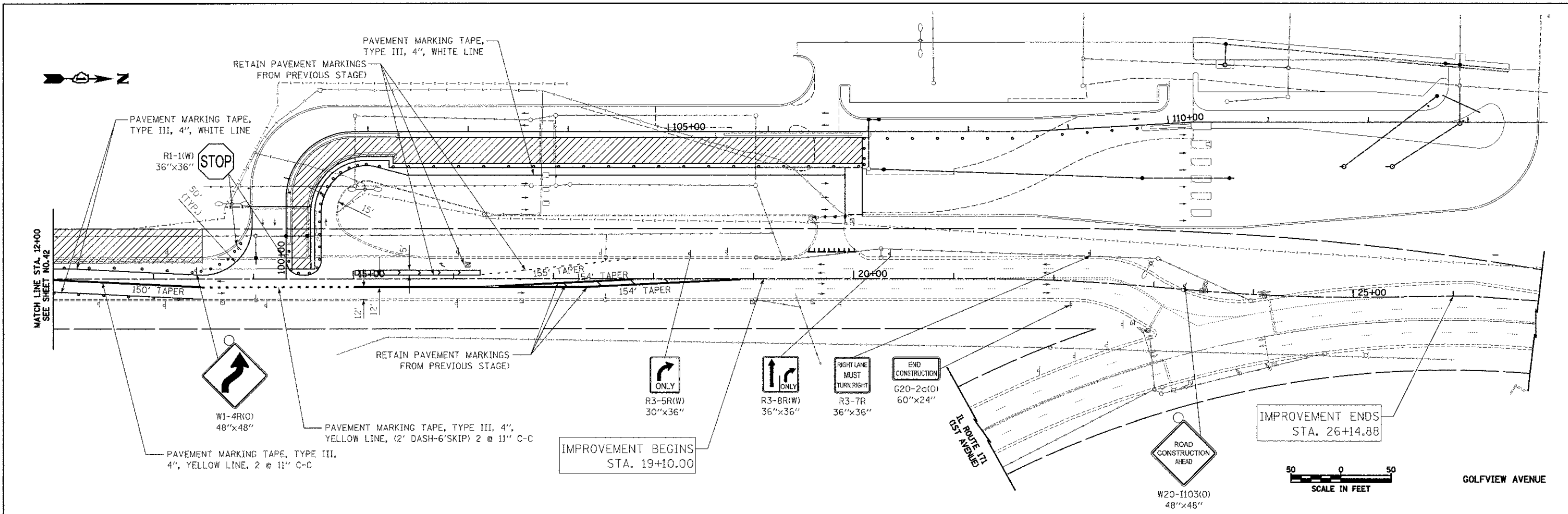


31ST STREET



31ST STREET

FILE NAME = ...sheet\06-MOT\2563_MOT_05.dgn	USER NAME = dte	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE III</b>	F.A.I. RTE. = 3784	SECTION = 12-F3000-23-PK	COUNTY = COOK	TOTAL SHEETS = 133	SHEET NO. = 42	
PLOT SCALE = 50.0000 1/4" = 1'	CHECKED - GAB	REVISED -	REVISED -			SCALE: 1" = 50' SHEET NO. 7 OF 12 SHEETS STA. 207+06.00 TO STA. 216+00.00					
PLOT DATE = 11/9/2012	DATE = 10/22/2012	REVISED -	REVISED -			CONTRACT NO. 63764					
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					









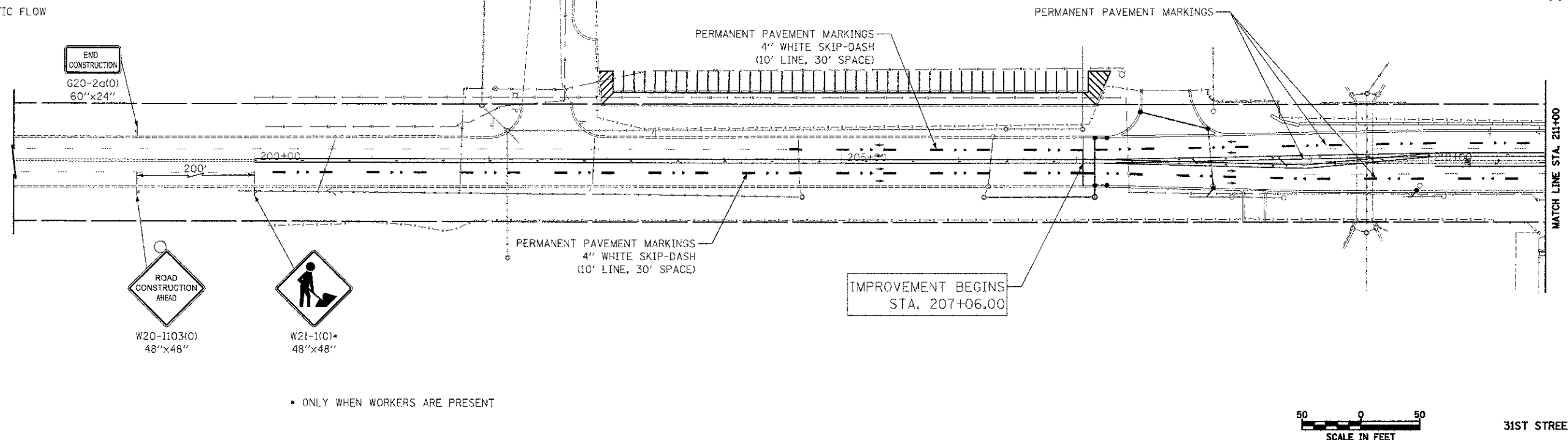
**LEGEND**

- 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 ...\\shcc\1\06-MOT\2563.MOT_06.dgn	USER NAME dke	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE III</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 135	SHEET NO. 43	
PLDT SCALE = 50:0000' / 1"	CHECKED - GAB	REVISOR -	REVISOR -			SCALE: 1" = 50'		SHEET NO. 8 OF 12 SHEETS		STA. 12+00.00 TO STA. 26+14.88	
PLDT DATE = 11/28/2012	DATE - 10/22/2012	REVISOR -	REVISOR -			FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 63764			
						FED. AID PROJECT					

**LEGEND**

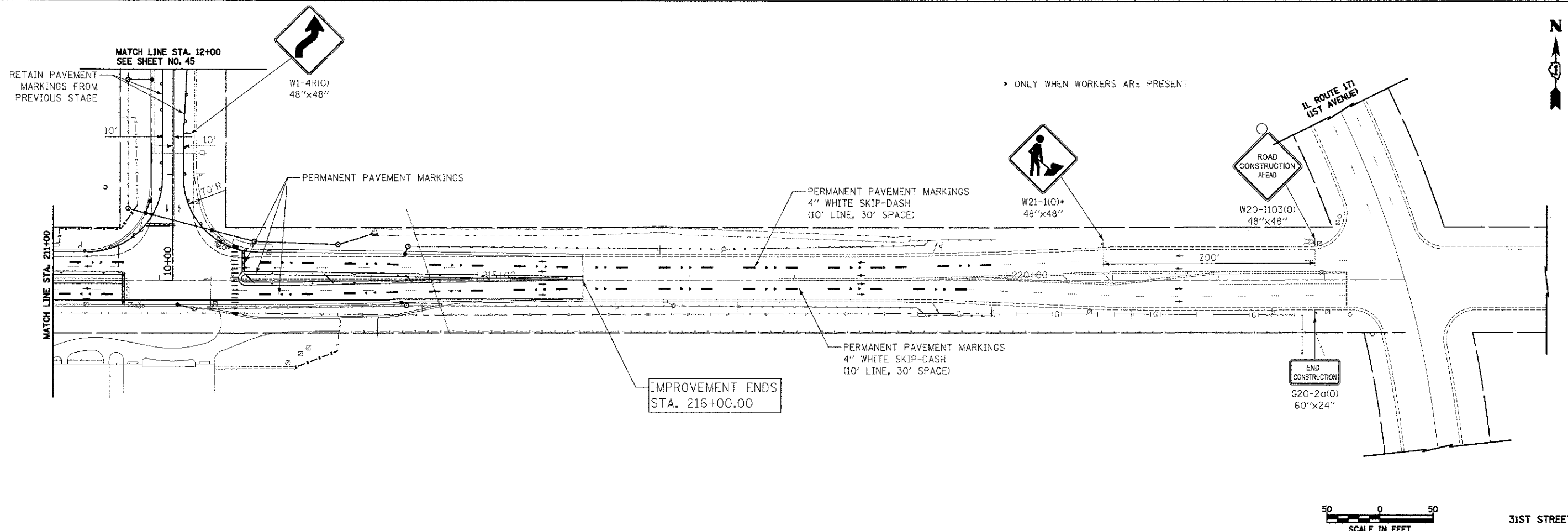
-  TEMPORARY PAVEMENT
-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC FLOW
-  TYPE I OR II BARRICADE WITH FLASHING LIGHT
-  VERTICAL PANEL
-  TYPE III BARRICADE WITH FLASHING LIGHTS



• ONLY WHEN WORKERS ARE PRESENT



31ST STREET

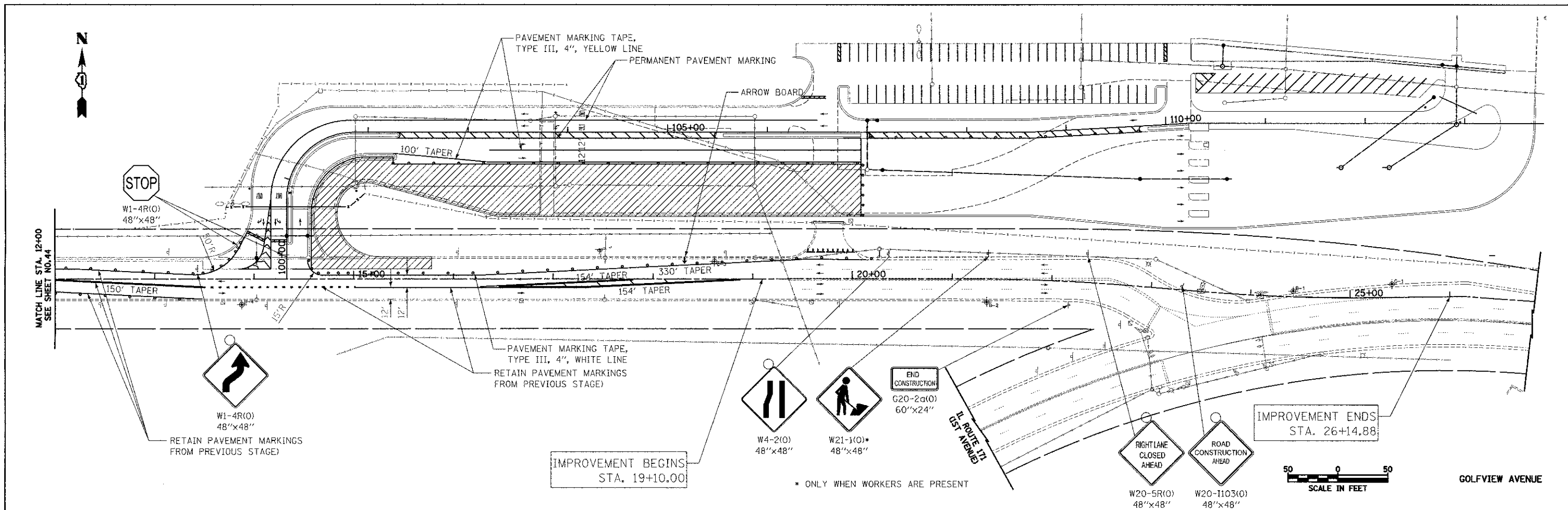


• ONLY WHEN WORKERS ARE PRESENT



31ST STREET

FILE NAME = ...sheet\06-MDT\2663.MDT_37.dgn	USER NAME = dtd	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE IV</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 44	
PLOT SCALE = 50.0000 / 1" = 50'						SCALE: 1" = 50'	SHEET NO. 9 OF 12 SHEETS	STA. 207+06.00 TO STA. 216+00.00		CONTRACT NO. 63764
PLOT DATE = 11/9/2012								FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT
DRAWN - KWH CHECKED - GAB DATE - 10/22/2012										



**LEGEND**

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

FILE NAME = ...sheet06-MO-TA2563_NOT_08.dgn	USER NAME = dte	DESIGNED = KWH	REVISED =
PLT SCALE = 1/8" = 10'	DRAWN = KWH	CHECKED = GAB	REVISED =
PLT DATE = 11/28/2012	DATE = 10/22/2012	REVISED =	REVISED =







**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

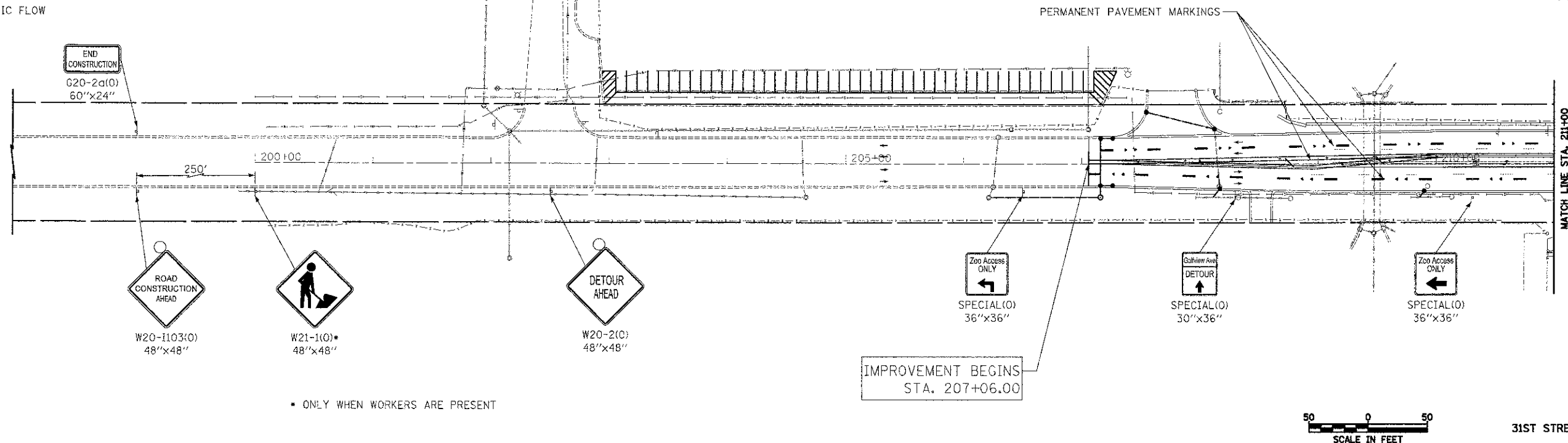
**MAINTENANCE OF TRAFFIC - STAGE IV**

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

F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 45
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63764 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

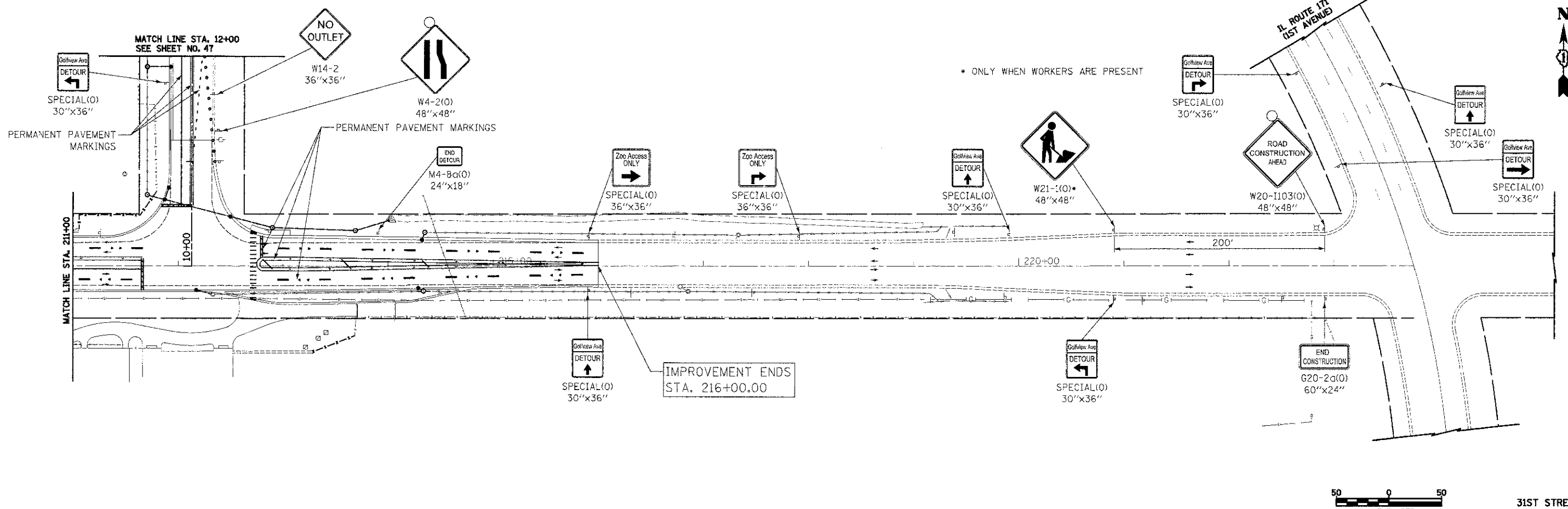


IMPROVEMENT BEGINS  
STA. 207+06.00

\* ONLY WHEN WORKERS ARE PRESENT



31ST STREET



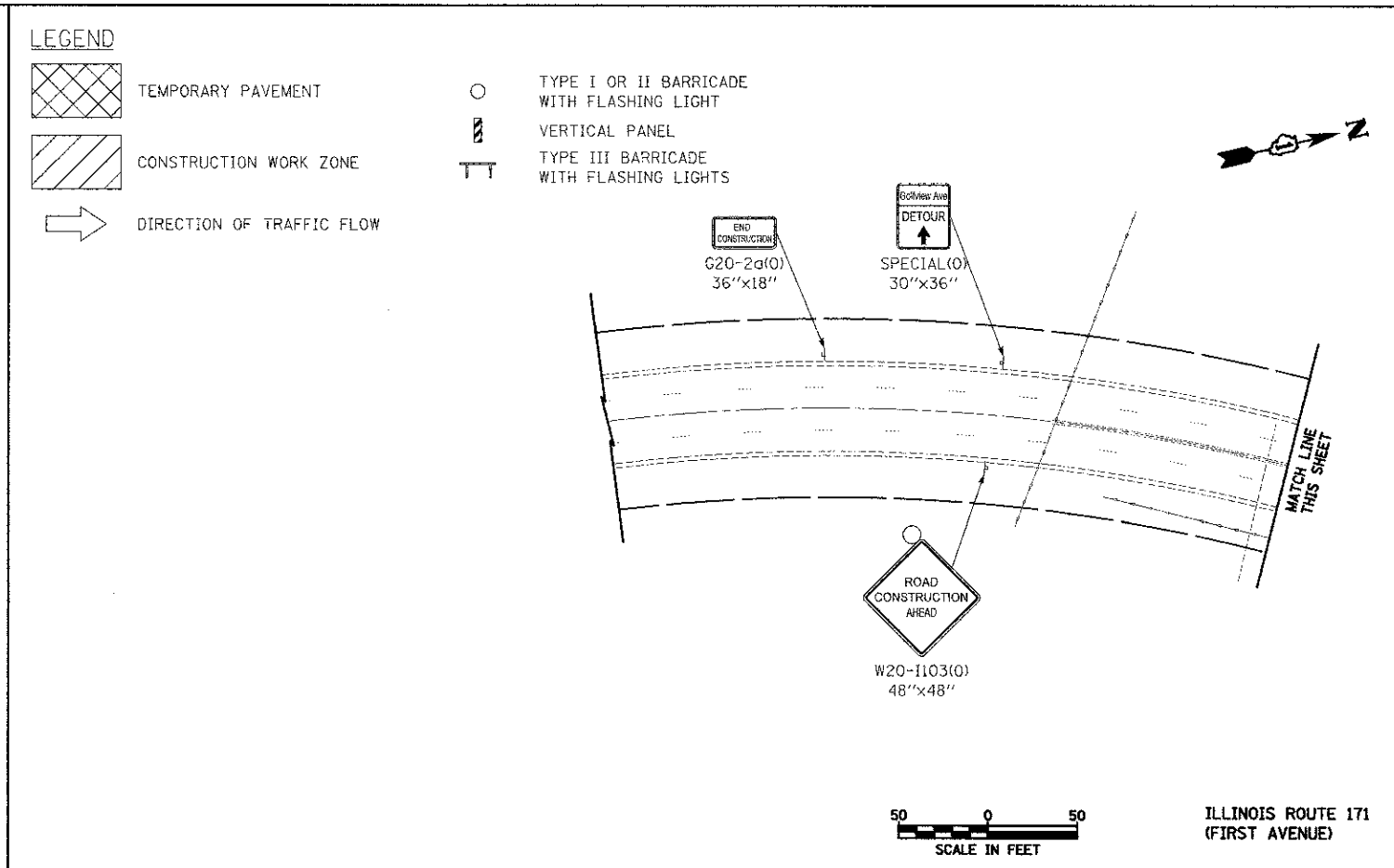
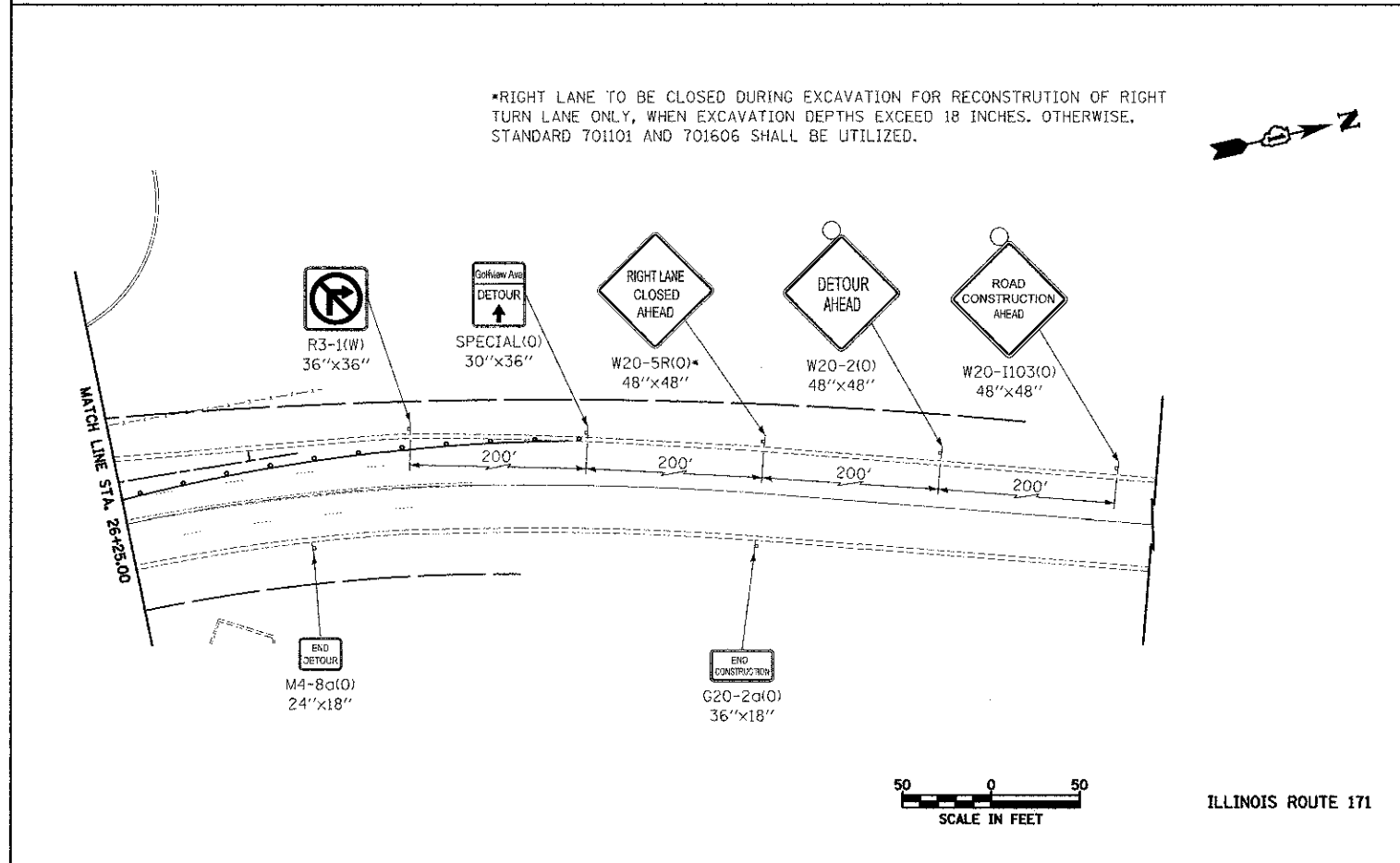
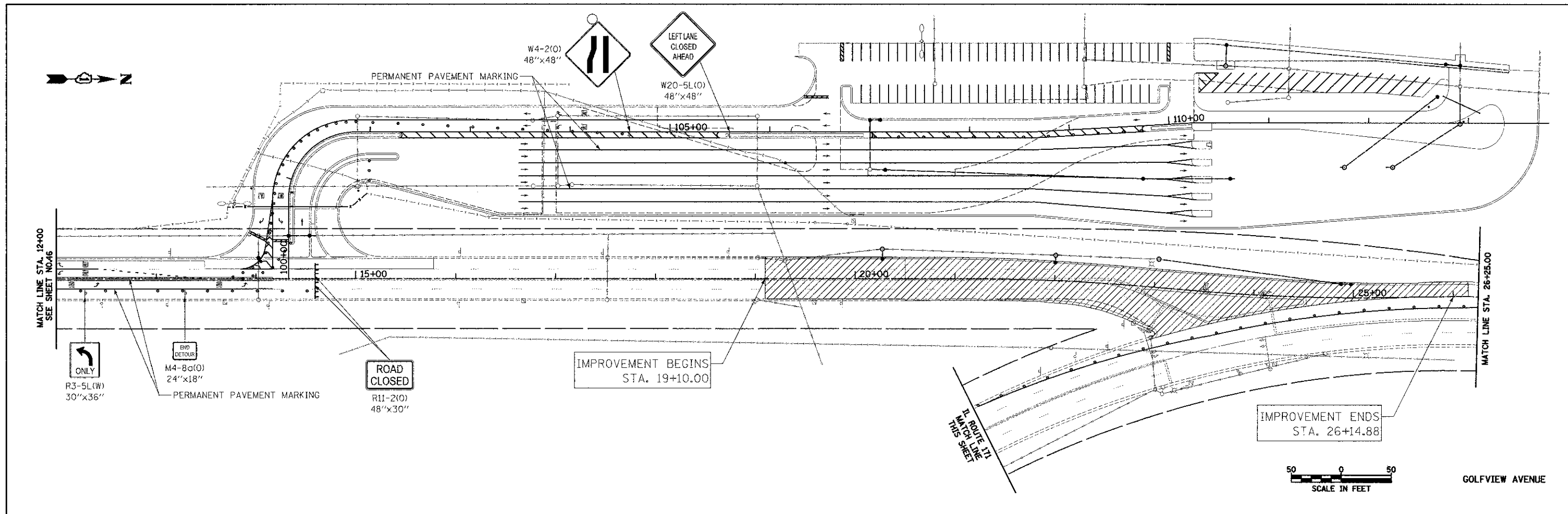
IMPROVEMENT ENDS  
STA. 216+00.00

\* ONLY WHEN WORKERS ARE PRESENT



31ST STREET





FILE NAME = ...sheet\28-MOT-2563_MOT_04.dgn	USER NAME = dte	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE V</b>	F.A.L. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 46		
PLCT SCALE = 50.0000' / in.	CHECKED - GAB	REVISED -	REVISED -			SCALE: 1" = 50'	SHEET NO. 11 OF 12 SHEETS	STA. 207+06.00	TO STA. 216+00.00	CONTRACT NO. 63764		
PLCT DATE = 11/9/2012	DATE - 10/22/2012	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 (ILLINOIS)						
FED. AID PROJECT												

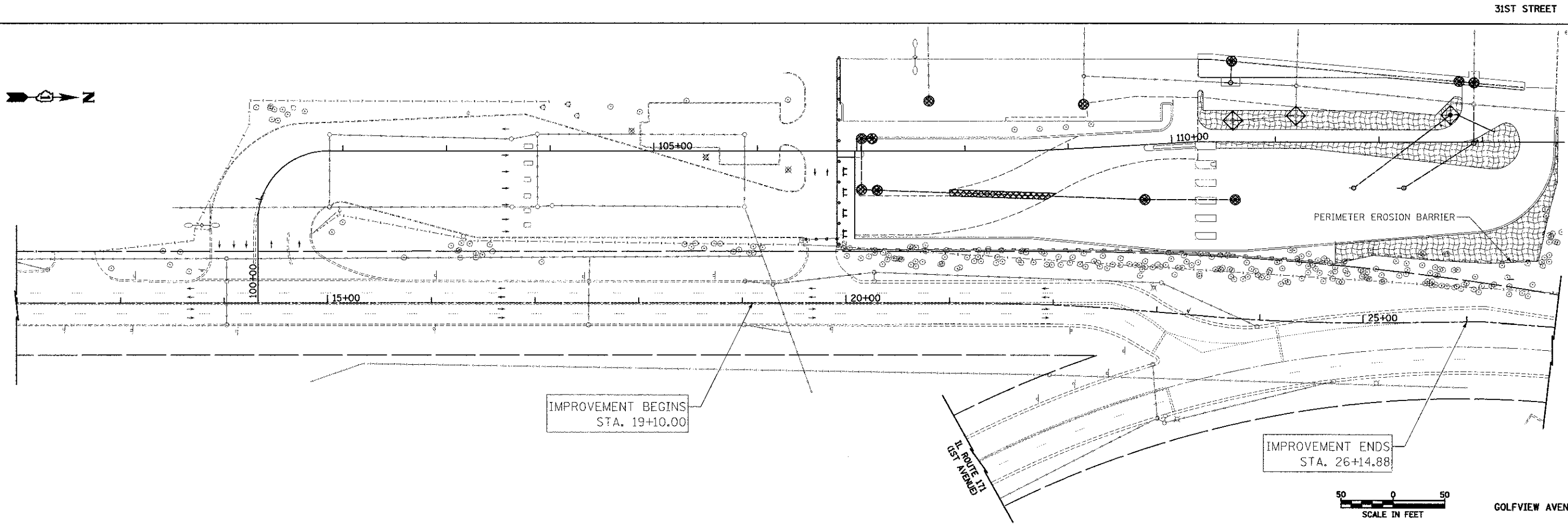
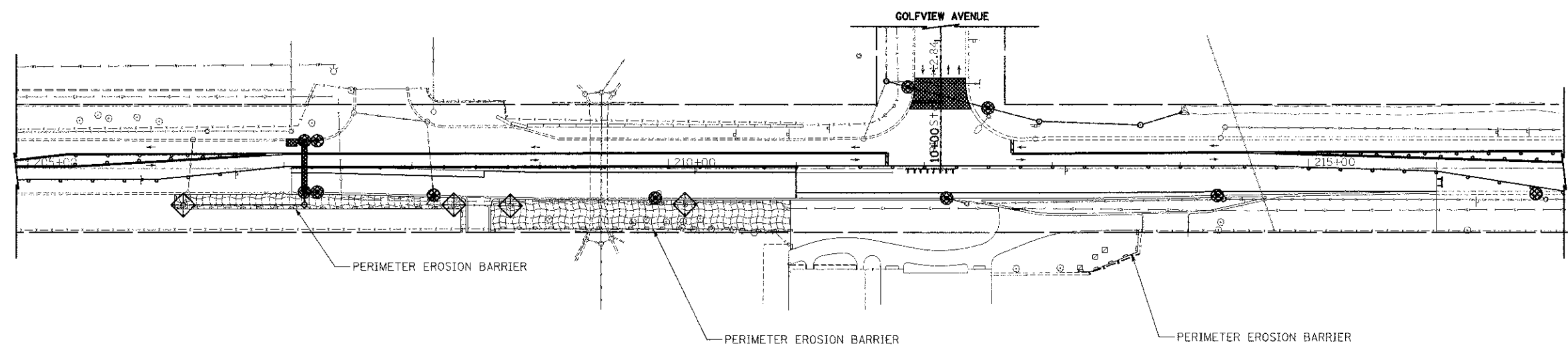


\*RIGHT LANE TO BE CLOSED DURING EXCAVATION FOR RECONSTRUCTION OF RIGHT TURN LANE ONLY, WHEN EXCAVATION DEPTHS EXCEED 18 INCHES. OTHERWISE, STANDARD 701101 AND 701606 SHALL BE UTILIZED.

- 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\2063_M07_19.dgn	USER NAME = dta	DESIGNED - KWH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE V</b>	F.A.I.L. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 47	
PLOT SCALE = 50:0000 1/4" = 1'	CHECKED - GAB	REVISIED -	REVISIED -			SCALE: 1" = 50'	SHEET NO. 12 OF 12 SHEETS	STA. 12+00.00 TO STA. 26+14.88	FED. ROAD DIST. NO. 1 ILLINOIS	CONTRACT NO. 63764	
PLOT DATE = 11/23/2012	DATE - 10/22/2012	REVISIED -	REVISIED -								
ILLINOIS ROUTE 171 (FIRST AVENUE)											

- 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



FILE NAME =  
...2563\_ERO\_01.dgn

USER NAME = dte  
PLOT SCALE = 30.0000' / 1" L  
PLOT DATE = 11/28/2012

DESIGNED - DTE  
DRAWN - DTE  
CHECKED - GAB  
DATE - 10/22/2012

REVISED -  
REVISED -  
REVISED -  
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. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 48
FED. ROAD DIST. NO. 1 (ILLINOIS)			CONTRACT NO. 63764 FED. AID PROJECT	







LEGEND



PAVEMENT PATCHING



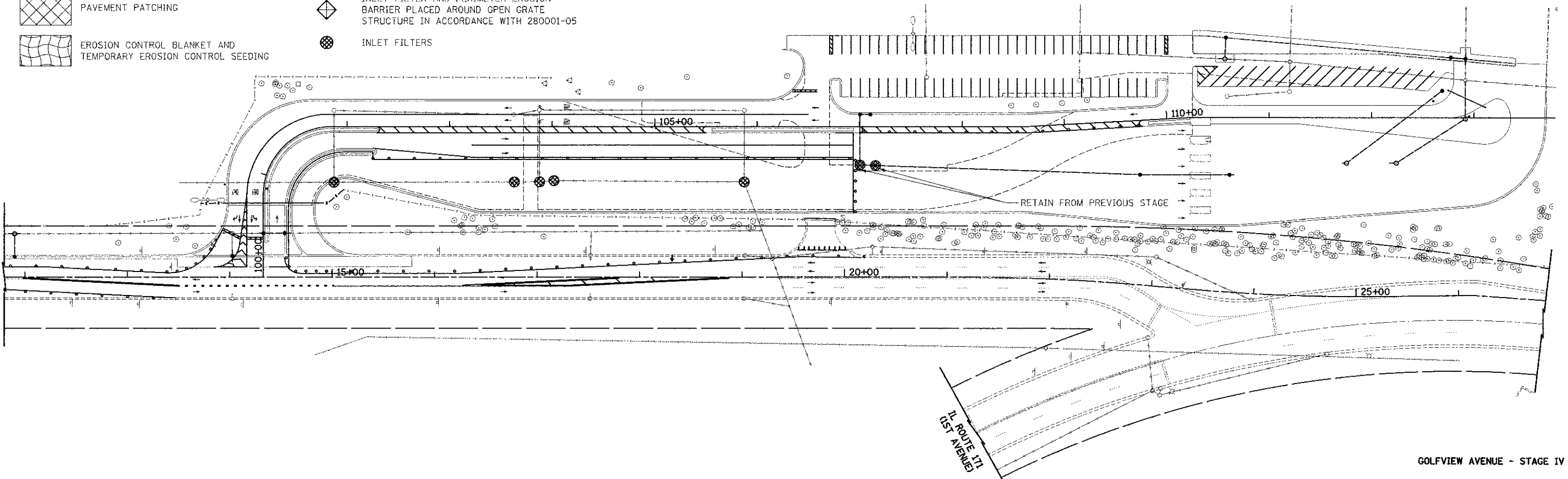
EROSION CONTROL BLANKET AND  
TEMPORARY EROSION CONTROL SEEDING



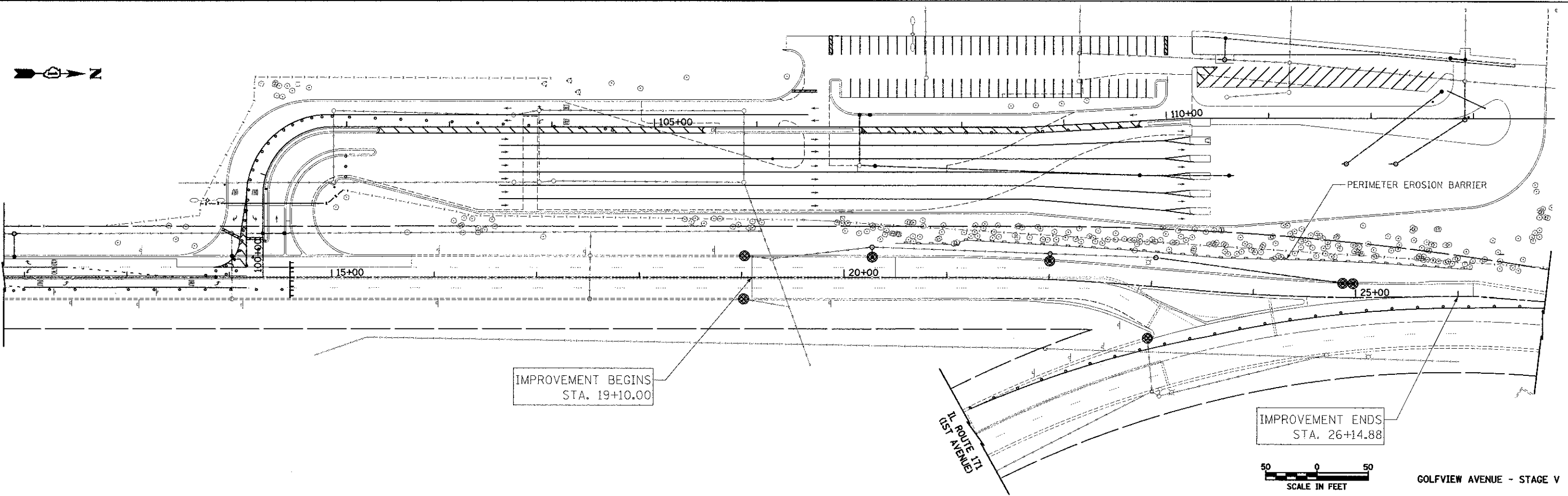
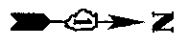
INLET FILTER AND PERIMETER EROSION  
BARRIER PLACED AROUND OPEN GRATE  
STRUCTURE IN ACCORDANCE WITH 280001-05



INLET FILTERS



GOLFVIEW AVENUE - STAGE IV



GOLFVIEW AVENUE - STAGE V

FILE NAME =	USER NAME = dte
... \2563_ERC_03.dgn	

DESIGNED - DTE	REVISÉ -
DRAWN - DTE	REVISÉ -
CHECKED - GAB	REVISÉ -
DATE - 10/22/2012	REVISÉ -

DESIGNED - DTE	REVISÉ -
DRAWN - DTE	REVISÉ -
CHECKED - GAB	REVISÉ -
DATE - 10/22/2012	REVISÉ -

DESIGNED - DTE	REVISÉ -
DRAWN - DTE	REVISÉ -
CHECKED - GAB	REVISÉ -
DATE - 10/22/2012	REVISÉ -

**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

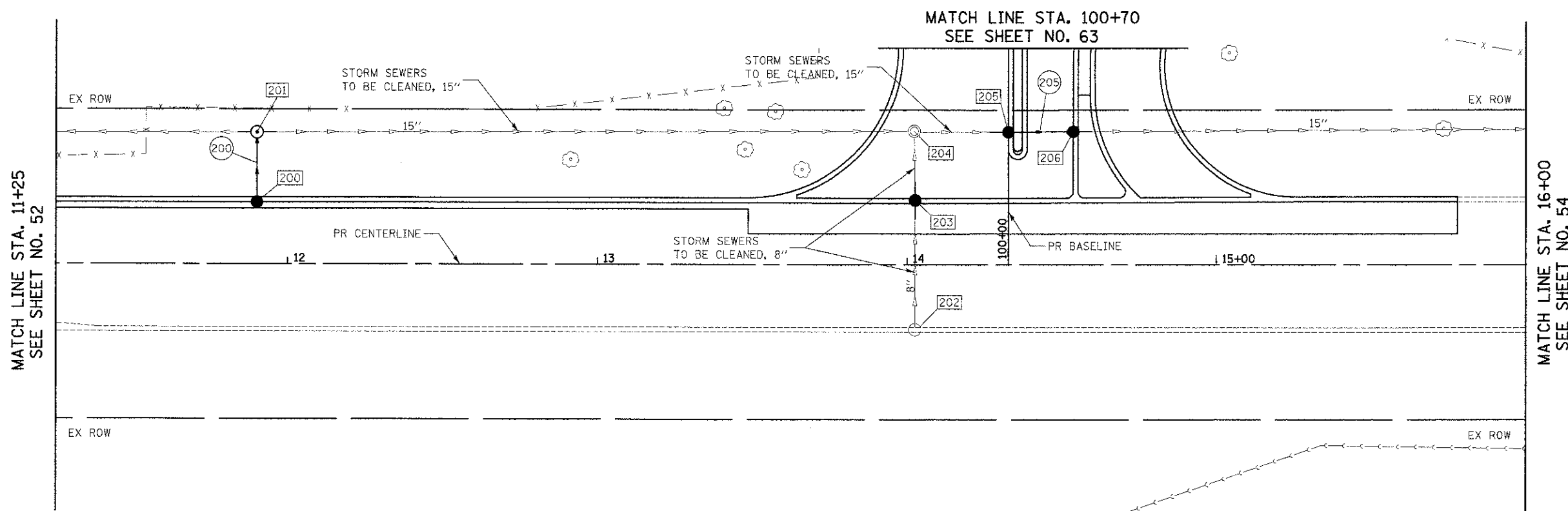
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	50
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63764	
FED. AID PROJECT				



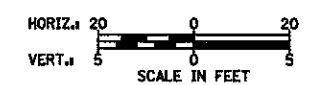




DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	

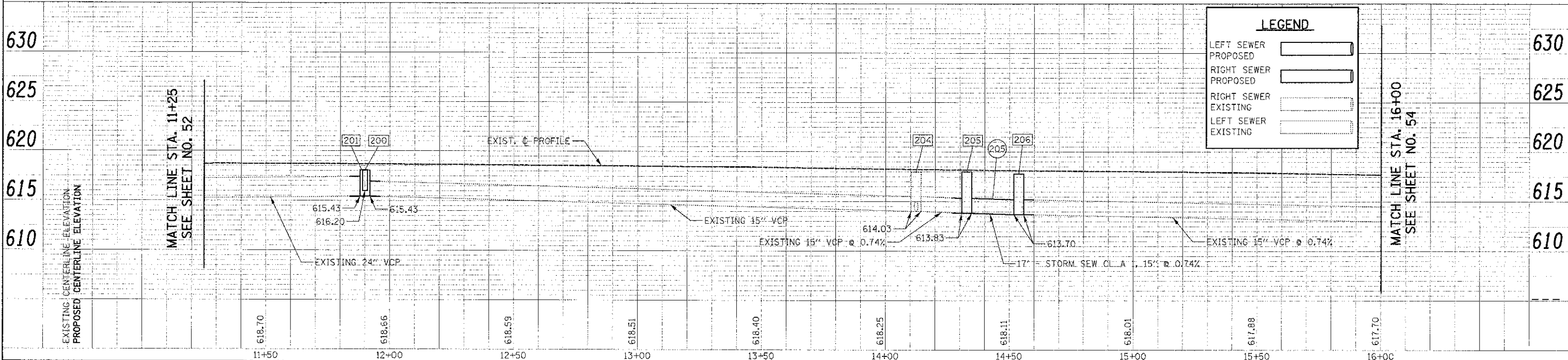


- NOTES
1. SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
  2. NEW STORM STRUCTURES TO BE CUT INTO AN EXISTING STORM SEWER LINE SHALL REQUIRE 4 FEET OF NEW STORM SEWER IN EACH APPLICABLE DIRECTION. THIS WORK SHALL BE PAID FOR AS THE SAME TYPE AND SIZE OF THE EXISTING SEWER BEING TIED IN TO.



GOLFVIEW AVENUE

DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	



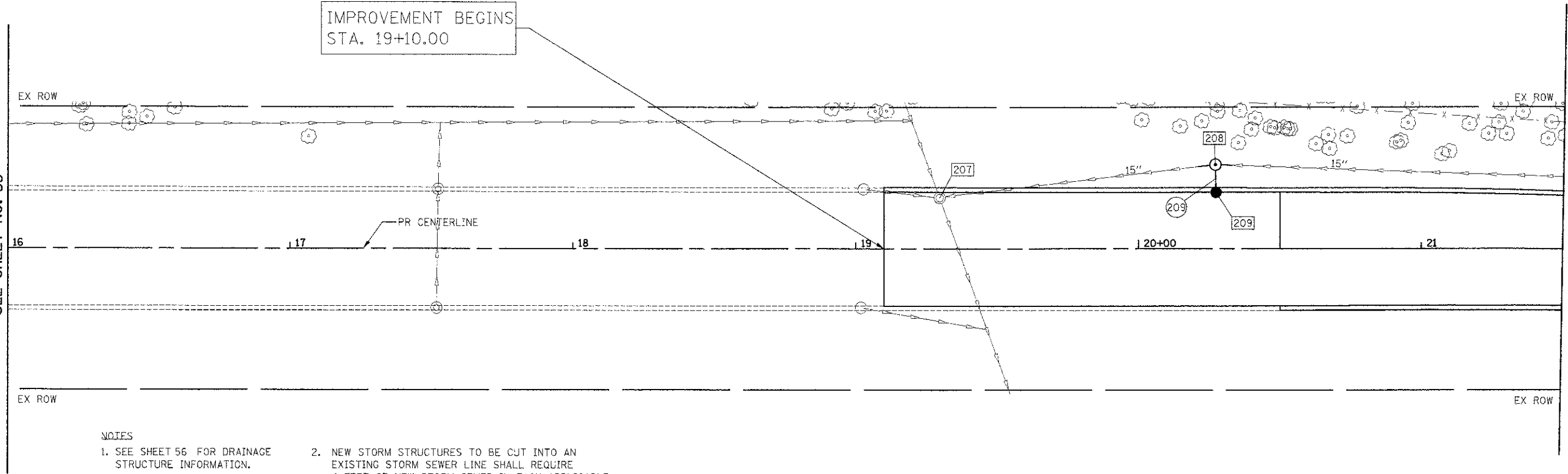
LEGEND	
LEFT SEWER PROPOSED	[Symbol]
RIGHT SEWER PROPOSED	[Symbol]
RIGHT SEWER EXISTING	[Symbol]
LEFT SEWER EXISTING	[Symbol]

FILE NAME: ...2563_3&U_23.dgn	USER NAME = dta	DESIGNED - JES	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES</b>	SCALE: 1" = 20' SHEET NO. 3 OF 6 SHEETS STA. 11+25 TO STA. 16+00	F.A.U. RTE. 3784 SECTION 12-F3000-23-PK COUNTY COOK TOTAL SHEETS 133 SHEET NO. 53 CONTRACT NO. 63764 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
		DRAWN - JES	REVISED -				
		CHECKED - GAB	REVISED -				
		DATE - 10/22/2012	REVISED -				

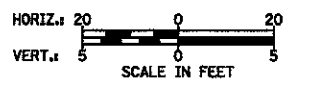


PLAN	DESIGNED	DATE
NO. BOOK	BY	
NO.	DATE	

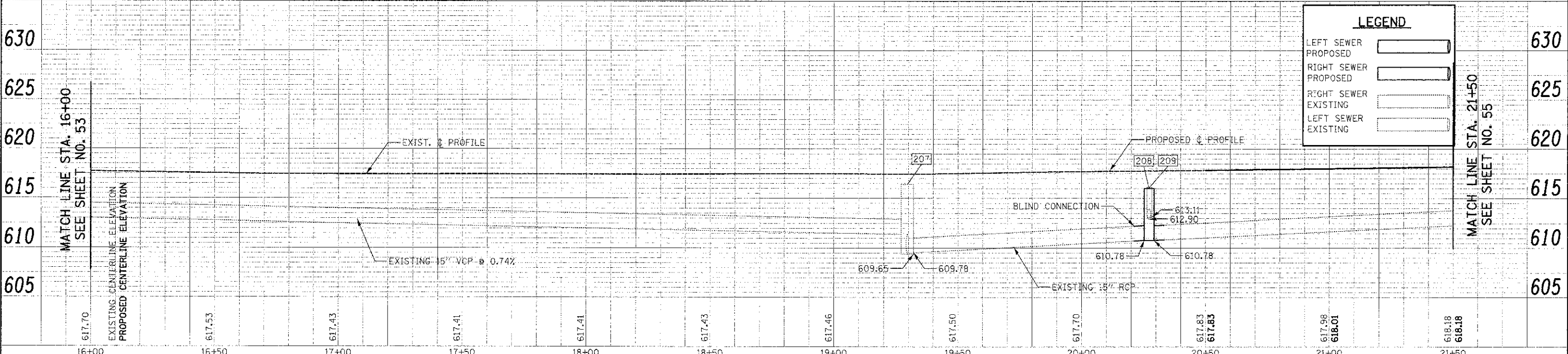
PROFILE	DESIGNED	DATE
NO. BOOK	BY	
NO.	DATE	



- NOTES**
- SEE SHEET 56 FOR DRAINAGE STRUCTURE INFORMATION.
  - 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



**LEGEND**

LEFT SEWER PROPOSED	[Symbol]
RIGHT SEWER PROPOSED	[Symbol]
RIGHT SEWER EXISTING	[Symbol]
LEFT SEWER EXISTING	[Symbol]

FILE NAME =	USER NAME = dsa	DESIGNED - DTE	REVISOR -	STATE OF ILLINOIS	SECTION	COUNTY	TOTAL SHEET NO.
...2563_083_04.dgn		DRAWN - DTE	REVISOR -	DEPARTMENT OF TRANSPORTATION	3784	12-F3000-23-PK	COOK 133 54
PLOT SCALE = 20.00000 1" = 20'		CHECKED - GAB	REVISOR -				CONTRACT NO. 63764
PLOT DATE = 11/9/2012		DATE - 10/22/2012	REVISOR -		SCALE: 1" = 20'	SHEET NO. 4 OF 6 SHEETS	STA. 16+00 TO STA. 21+50

MATCH LINE STA. 16+00  
SEE SHEET NO. 53

MATCH LINE STA. 21+50  
SEE SHEET NO. 55

MATCH LINE STA. 21+50  
SEE SHEET NO. 55





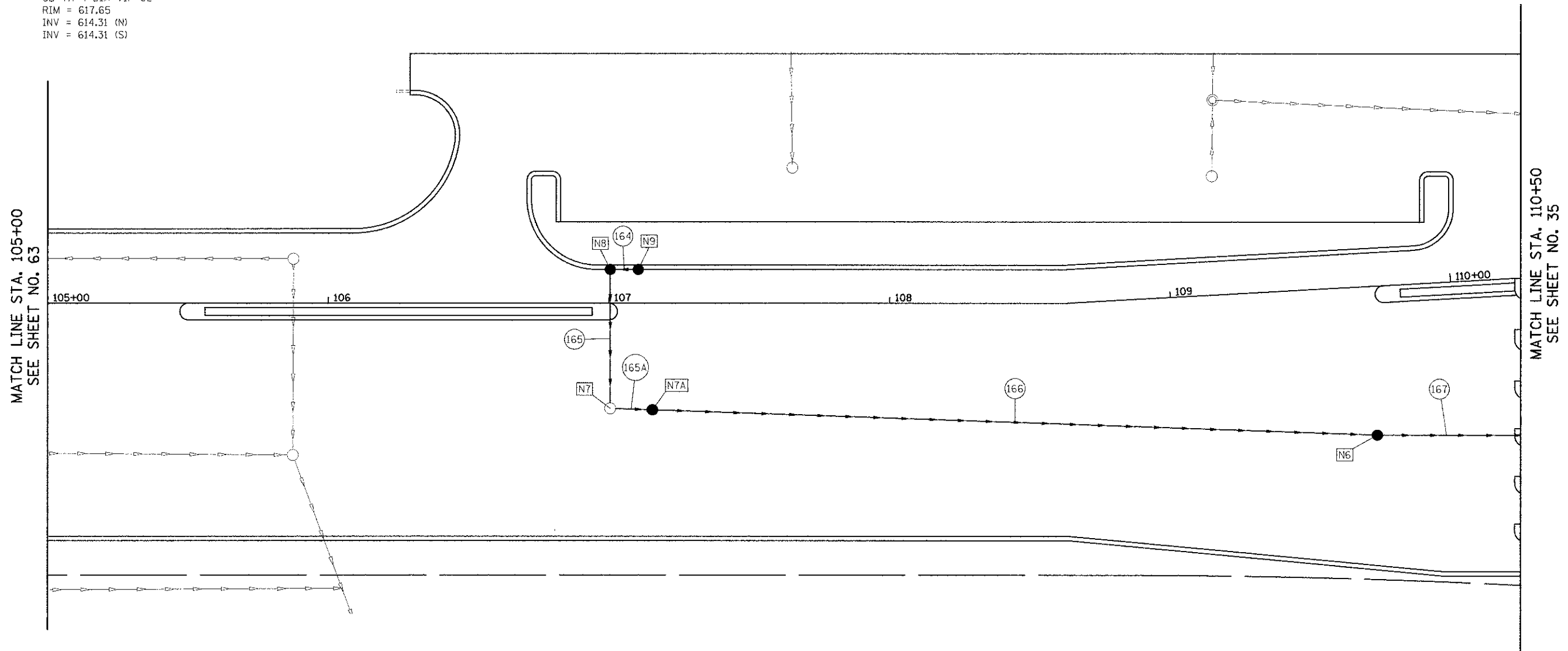
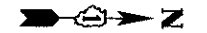


**STORM STRUCTURES**

- [N6] STA. 109+70.92, 52.9' RT  
CB TA 4 DIA T1F OL  
RIM = 618.80  
INV = 613.04 (S)  
INV = 613.04 (N)
- [N7] STA. 107+00.44, 37.4' RT  
EXISTING CB  
RIM = 617.52  
INV = 613.17 (NW)  
PR INV = 614.38 (W)  
PR INV = 614.38 (N)
- [N7A] STA. 107+15.43, 37.9' LT  
CB TA 4 DIA T1F OL  
RIM = 617.65  
INV = 614.31 (N)  
INV = 614.31 (S)
- [N8] STA. 107+00.44, 12.0' LT  
CB TA 4 DIA T12F&G  
RIM = 617.85  
INV = 614.62 (N)  
INV = 614.62 (E)
- [N9] STA. 107+10.44, 12.0' LT  
CB TC T12F&G  
RIM = 617.70  
INV = 614.65 (S)

**STORM SEWER PIPES**

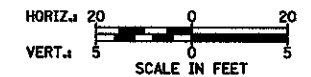
- (164) 6' - STORM SEWERS, CL A, TYPE 1 12" @ 0.50%  
TBF = 1.6 CU YD
- (165) 48' - STORM SEWERS, CL A, TYPE 1 12" @ 0.50%  
TBF = 12.6 CU YD
- (165A) 11' - STORM SEWERS, CL A, TYPE 1 15" @ 0.55%  
TBF = 3.4 CU YD
- (166) 255' - STORM SEWERS, CL A, TYPE 1 15" @ 0.50%  
TBF = 172.4 CU YD
- (167) 83' - STORM SEWERS, CL A, TYPE 2 24" @ 0.51%  
TBF = 97.3 CU YD



**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**



FILE NAME = ...N2563...01_04_REV.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BROOKFIELD ZOO NORTH PARKING LOT PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 57
	PLOT SCALE = 20.0000 1" = 20'	CHECKED - GAB	REVISED -							
	PLOT DATE = 11/28/2012	DATE - 10/22/2012	REVISED -		SCALE: 1" = 20'	SHEET NO. 4 OF 6 SHEETS	STA. 105+00 TO STA. 110+50	CONTRACT NO. 63764		
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT										

STORM STRUCTURES

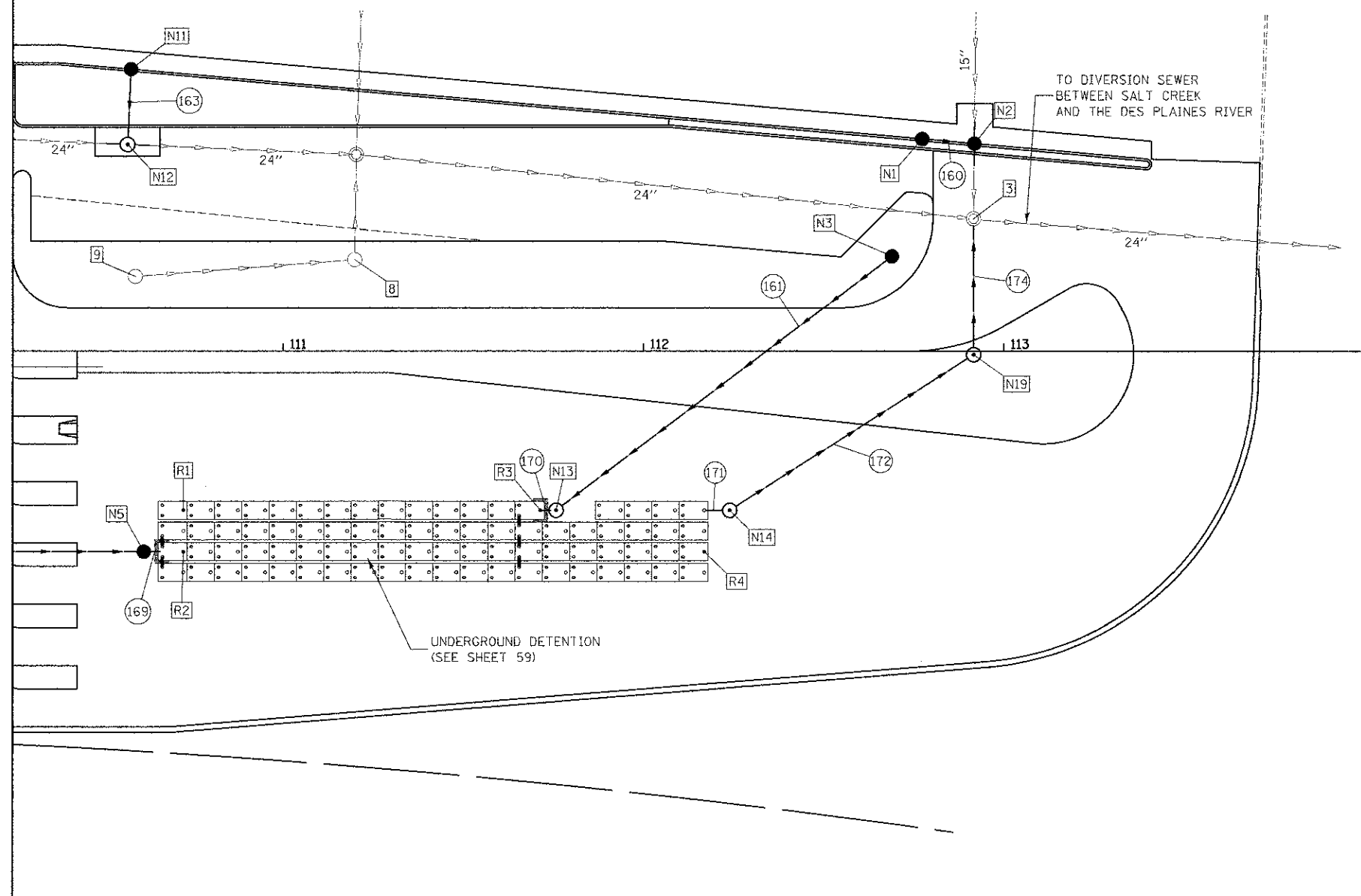
- [3] STA. 112+91.59, 36.6' LT  
MAN ADJUST  
EX RIM = 618.15  
PR RIM = 618.15  
INV = UNKNOWN (W,S,N)  
INV = 609.70 (E)
- [8] STA. 111+19.90, 25.4' LT  
CB ADJUST  
EX RIM = 617.18  
PR RIM = 617.50
- [9] STA. 112+91.59, 36.6' LT  
CB ADJ NEW T8G  
EX RIM = 618.94  
PR RIM = 618.94
- [N1] STA. 112+77.31, 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 TC T8G  
RIM = 618.00  
INV = 614.92 (SE)
- [N5] STA. 112+68.91, 26.3' LT  
CB TA 4 DIA T1F OL  
RIM = 620.05  
INV = 612.62 (N)  
INV = 612.62 (S)
- [N11] STA. 110+57.72, 78.2' LT  
CB TC T12F&G  
RIM = 618.44  
INV = 610.15 (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 = 609.70 (W)
- [N13] STA. 111+75.80, 44.3' RT  
MAN TA 4 DIA T1F CL  
RIM = 621.62  
INV = 612.66 (W)  
INV = 612.66 (S)
- [N14] STA. 112+24.01, 44.3' RT  
MAN TA 6D T1F CL R-P  
RIM = 621.98  
INV = 612.45 (NW)  
INV = 612.45 (S)
- [N19] STA. 112+90.73, 26.6' LT  
MAN TA 4 DIA T1F CL  
RIM = 619.50  
INV = 610.55 (SE)  
INV = 610.55 (W)
- [R1] STA. 110+72.35, 44.3' RT  
FRAMES AND LIDS, SPECIAL  
RIM = 619.96
- [R2] STA. 110+72.35, 55.8' RT  
FRAMES AND LIDS, SPECIAL  
RIM = 619.98
- [R3] STA. 111+71.43, 44.3' RT  
FRAMES AND LIDS, SPECIAL  
RIM = 621.52
- [R4] STA. 112+09.34, 55.8' RT  
FRAMES AND LIDS, SPECIAL  
RIM = 622.34



STORM SEWER PIPES

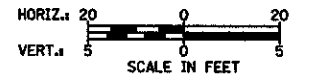
- (160) 12" - STORM SEWERS, CL A, TYPE 2 12" @ 2.00%  
TBF = 8.9 CU YD
- (161) 113' - STORM SEWERS, CL A, TYPE 2 12" @ 2.00%  
TBF = 62.8 CU YD
- (163) 18' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%  
TBF = 22.9 CU YD
- (169) 3' - STORM SEWERS, CL A, TYPE 2 24" @ 0.67%  
TBF = 1.4 CU YD
- (170) 3' - STORM SEWERS, CL A, TYPE 2 15" @ 2.00%  
TBF = 0.0 CU YD
- (171) 6' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%  
TBF = 6.0 CU YD
- (172) 76' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%  
TBF = 57.5 CU YD
- (174) 34' - STORM SEWERS, CL A, TYPE 2 12" @ 2.50%  
TBF = 44.4 CU YD

MATCH LINE STA. 110+25  
SEE SHEET NO. 34



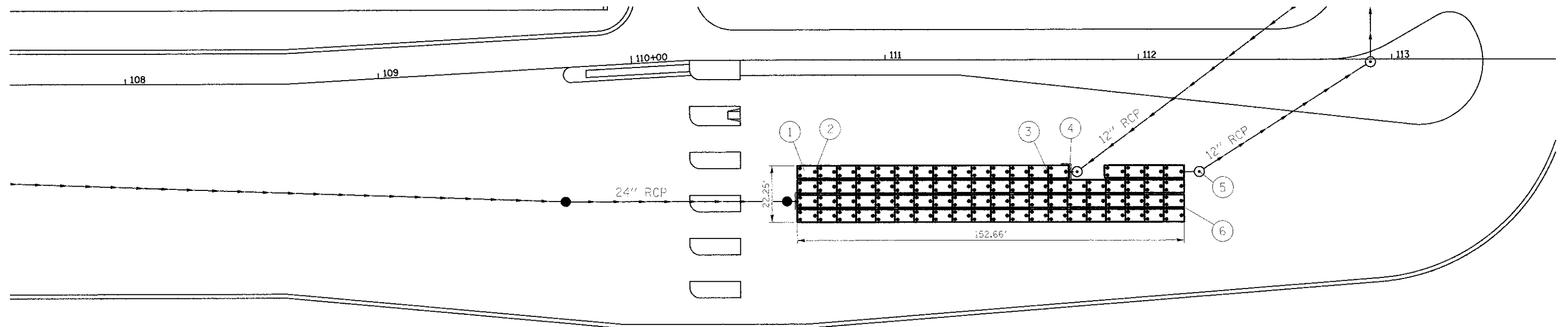
NOTES:

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.
4. SEE SHEET 59 FOR PLACEMENT OF LIDS/FRAMES FOR R3-R8.
5. PIPES CONNECTING TO THE DETENTION CHAMBERS SHALL EXTEND 1/2 A FOOT INTO THE CHAMBERS AND 1/2 A FOOT INTO THE ADJACENT STRUCTURE.



BROOKFIELD ZOO NORTH PARKING LOT

FILE NAME = ...N2563.L0T_05_REV.dgn	USER NAME = dse	DESIGNED - JES	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BROOKFIELD ZOO NORTH PARKING LOT PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 58	
PLOT SCALE = 20.0000' / 1" IN.						SCALE: 1" = 20'    SHEET NO. 5 OF 6 SHEETS    STA. 110+50 TO STA. 113+71					
PLOT DATE = 11/29/2012						CONTRACT NO. 63764					



**DETENTION MATERIALS**

- ① START CHAMBERS  
LAYUP LENGTHS = 8.1'
- ② SedimentTrap (8 TOTAL) WITH  
10" CLEANOUT RISER PIPES
- ③ 10" PVC CONNECTOR PIPES
- ④ HEAVY DUTY  
STABILIZATION NETTING
- ⑤ OUTLET STRUCTURE N14  
(SEE DETAIL)
- ⑥ END CHAMBERS  
LAYUP LENGTHS = 8.1'

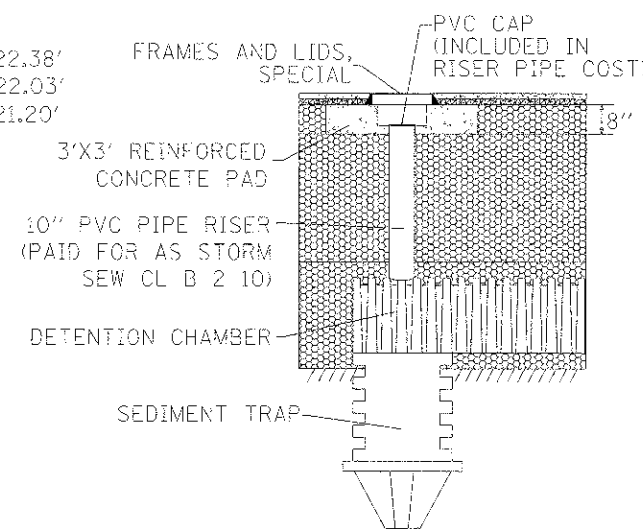
**NOTES:**

1. RISER PIPE SHALL EXTEND 3" INTO CONCRETE PAD. FRAME AND LID SHALL BE PLACED DIRECTLY ON PIPE.
2. CONCRETE PAD SHALL HAVE 15" DIAMETER GAP FOR RISER PIPE ACCESS. FILL CONCRETE AROUND RISER PIPE UP TO 3" ABOVE CONCRETE PAD BASE.
3. THE DETENTION BASIN HAS 78 CHAMBERS, AND HAS A CAPACITY OF 0.21 AC-FT. THE BASIN SHALL BE EXCAVATED 1 FT OUTSIDE BASIN DIMENSIONS.

**CROSS-SECTION OF UNDERGROUND DETENTION AREA  
(NOT TO SCALE)**

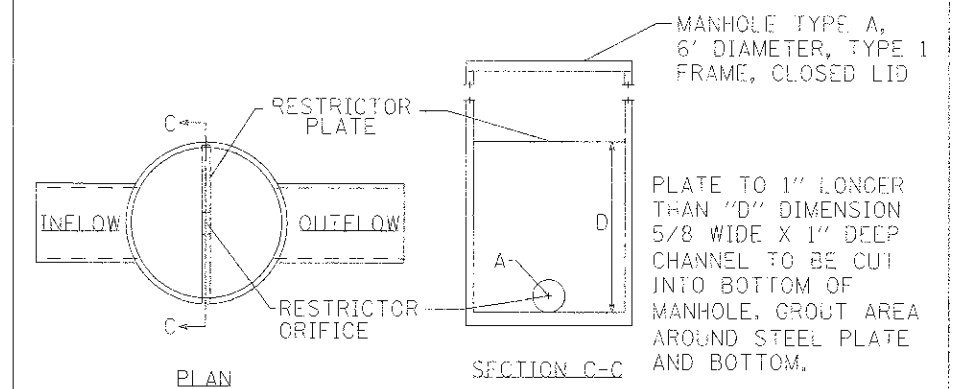


**SEDIMENT TRAP DETAIL  
(NOT TO SCALE)**



**OUTLET STRUCTURE N14**

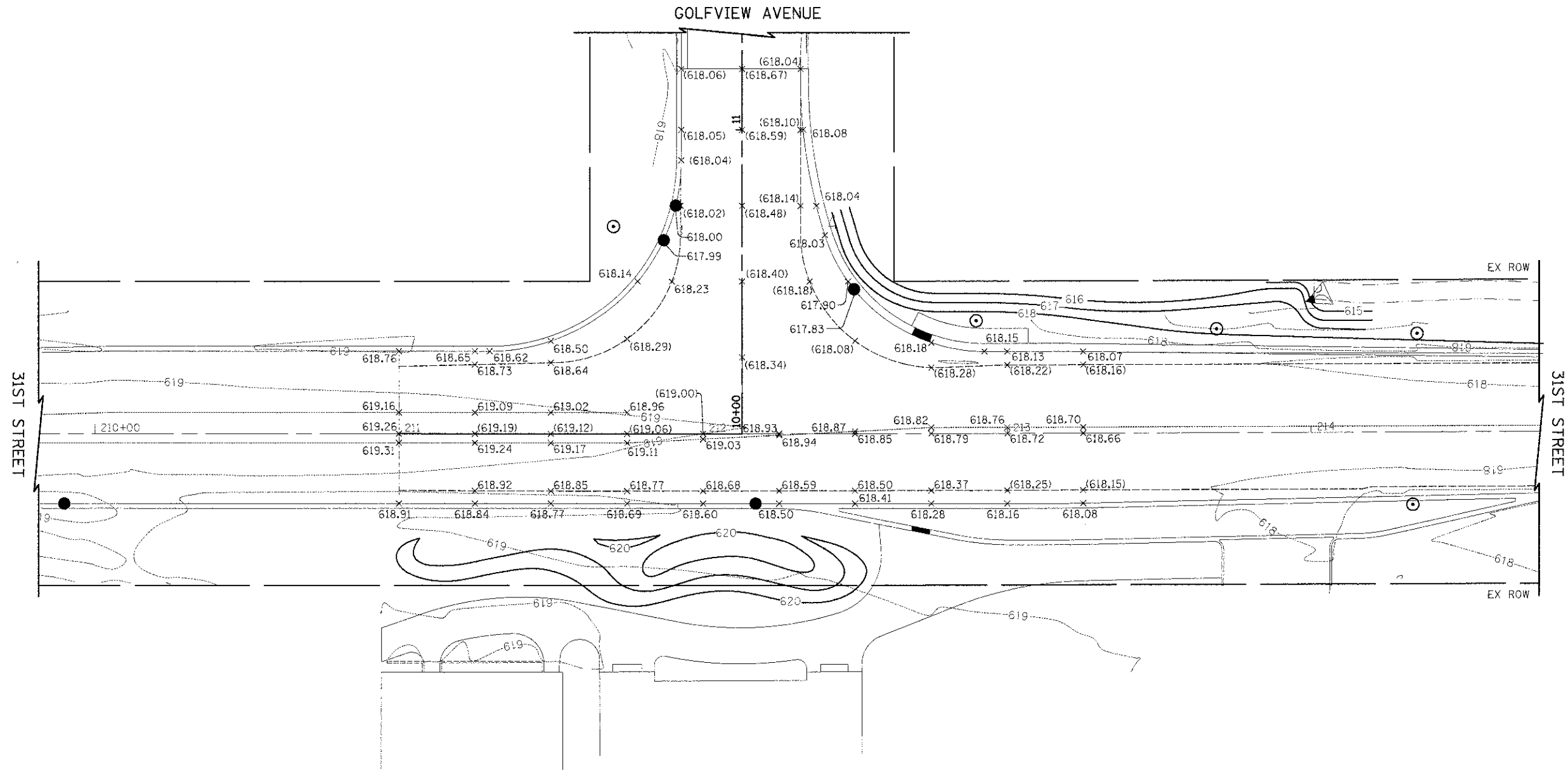
STRUCTURE	DIA. "A"	INVERT "A"	DIMENSION "D"	TOP OF RESTRICTOR PLATE ELEV.
N14	0.36'	612.45'	3.15'	615.60'



**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.



31ST STREET  
GOLFVIEW AVENUE



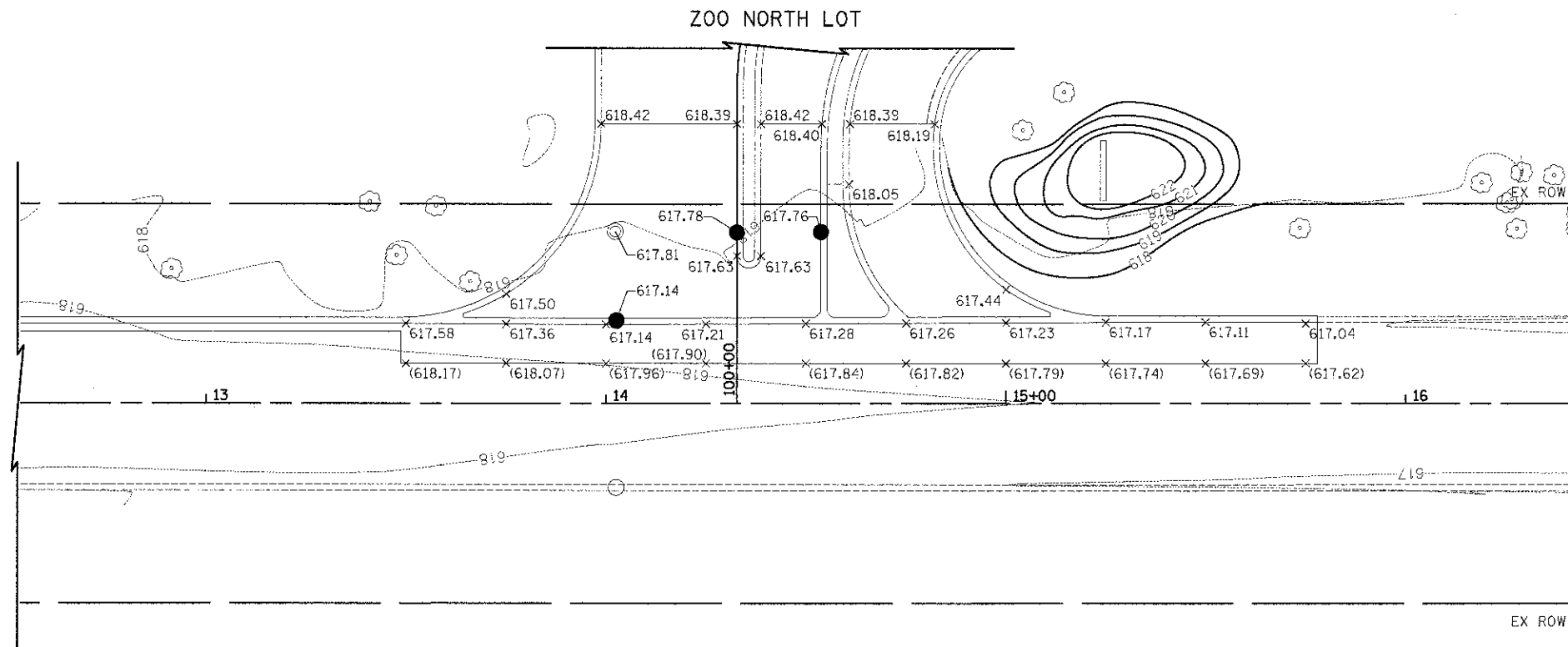
FILE NAME = ...\\12-Grading\2563_INT_01.dgn	USER NAME = dte	DESIGNED DTE	REVISOR -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERSECTION DETAILS</b>	F.A.U. 1 RTE. 12	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEET SHEETS NO. 133 60
PLOT SCALE = 20.0000' / 1" = 20'		CHECKED GAB	REVISOR -	SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 63764	
PLOT DATE = 11/9/2012		DATE = 10/22/2012	REVISOR -						

**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.



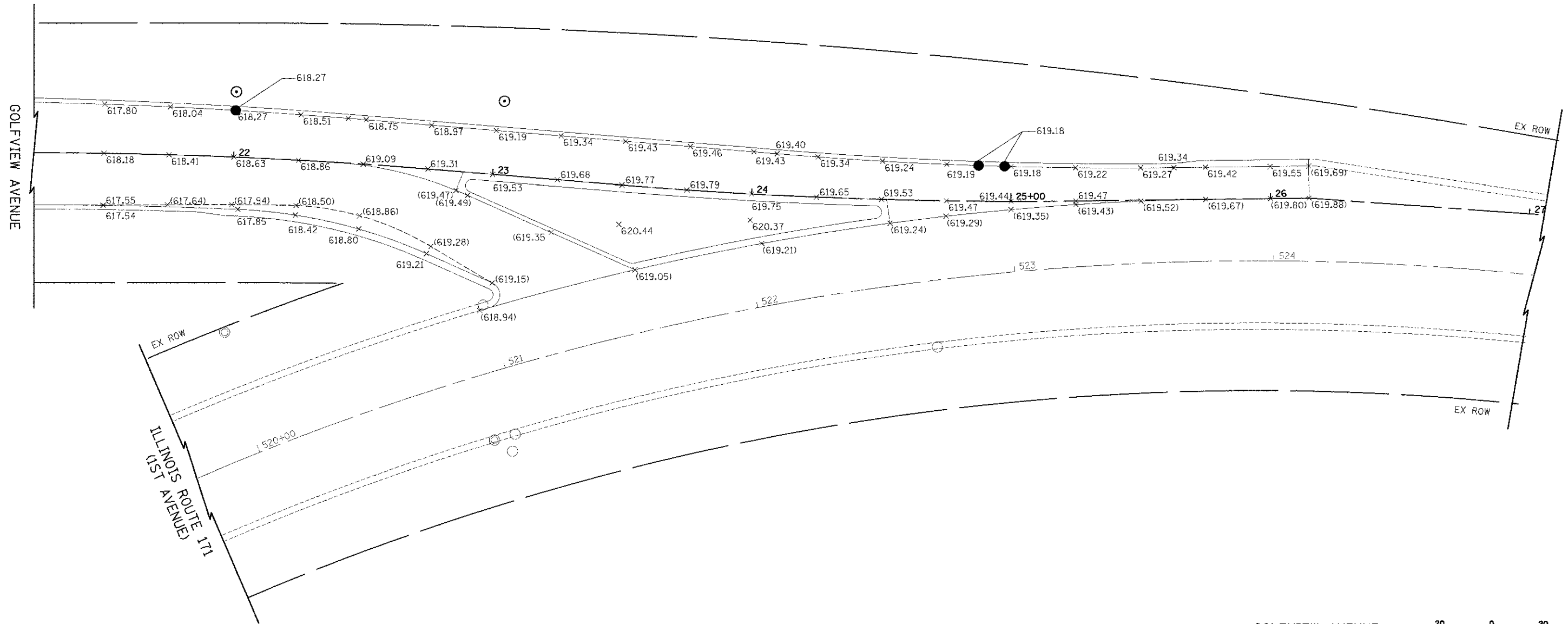
GOLFVIEW AVENUE



FILE NAME = ...\\12-Grading\2563.INT_02.dgn	USER NAME = cta	DESIGNED DTE	REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>INTERSECTION DETAILS</b>	F.A.L. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 61		
		DRAWN DTE	REVISIONS			SCALE: 1" = 20'	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 63764		
		CHECKED GAB	REVISIONS			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						
		DATE - 10/22/2012	REVISIONS									

**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.



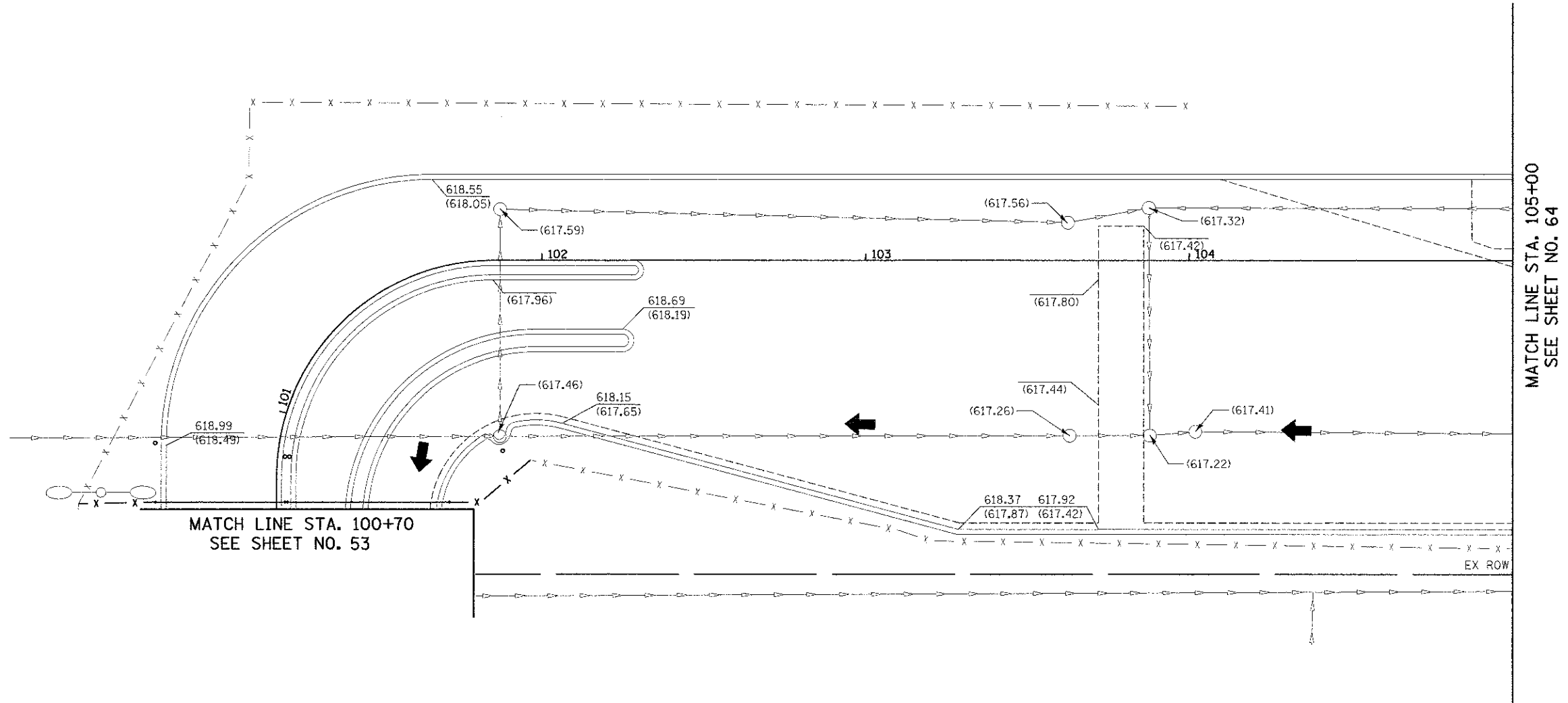
GOLFVIEW AVENUE  
 ILLINOIS ROUTE 171



FILE NAME = ...N12-Grading\2553_INT_03.dgn	USER NAME = dte	DESIGNED DTE	REVISIONS	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERSECTION DETAILS</b>			F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 62
	PLOT SCALE = 20.0000' / 1" =	DRAWN DTE	REVISIONS		SCALE: 1" = 20'	SHEET NO. 3 OF 3	SHEETS	STA.	TO STA.	CONTRACT NO. 63764		
	PLOT DATE = 11/20/2012	CHECKED GAB	REVISIONS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE = 10/22/2012	REVISIONS									

**LEGEND**

- 618.00 TOP OF CURB ELEVATION
- 617.50 FLOW LINE ELEVATION
- (617.50) EXISTING ELEVATION
- DRAINAGE DIVIDE
- ..... GRADING LIMITS
- ..... EXISTING MAJOR CONTOUR
- ..... EXISTING MINOR CONTOUR
- ← OVERLAND FLOW ROUTE



MATCH LINE STA. 105+00  
SEE SHEET NO. 64

MATCH LINE STA. 100+70  
SEE SHEET NO. 53

EX ROW

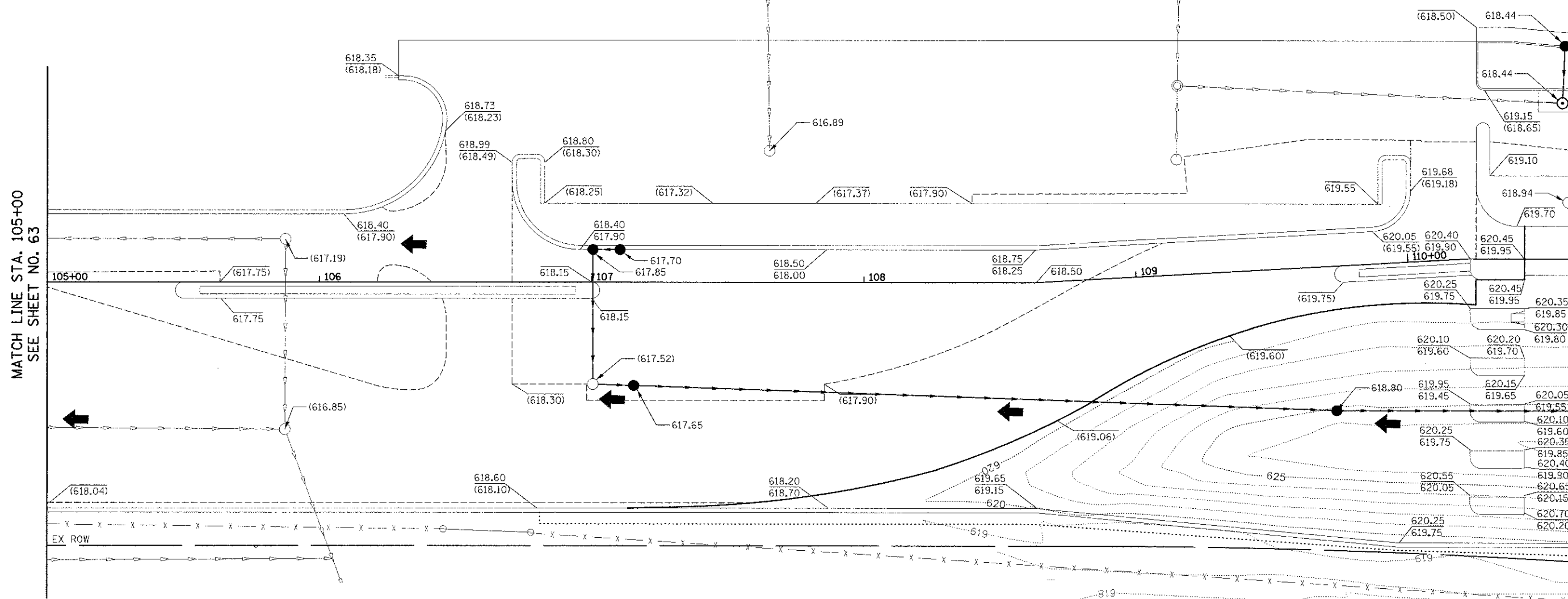
**BROOKFIELD ZOO NORTH PARKING LOT**



FILE NAME = ...12-Grading\2563_000_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 63		
PLOT SCALE = 20,000% / 111		CHECKED - GAB	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 3 SHEETS	STA. 100+75 TO STA. 105+00	CONTRACT NO. 63764			
PLOT DATE = 11/28/2012		DATE - 10/22/2012	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

**LEGEND**

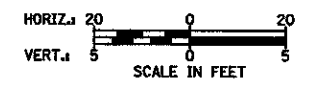
- 618.00 TOP OF CURB ELEVATION
- 617.50 FLOW LINE ELEVATION
- (617.50) EXISTING ELEVATION
- DRAINAGE DIVIDE
- ..... GRADING LIMITS
- ..... EXISTING MAJOR CONTOUR
- ..... EXISTING MINOR CONTOUR
- ← OVERLAND FLOW ROUTE



MATCH LINE STA. 105+00  
SEE SHEET NO. 63

MATCH LINE STA. 110+60  
SEE SHEET NO. 64

**BROOKFIELD ZOO NORTH PARKING LOT**



FILE NAME = ...112-Grading\2563_0016_R2.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 64	
PLOT SCALE = 20.0000' / 1" =						SCALE: 1" = 20'		SHEET NO. 2 OF 3 SHEETS		STA. 105+00 TO STA. 110+60	
PLOT DATE = 11/28/2012						DATE - 10/22/2012		CONTRACT NO. 63764			
						FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

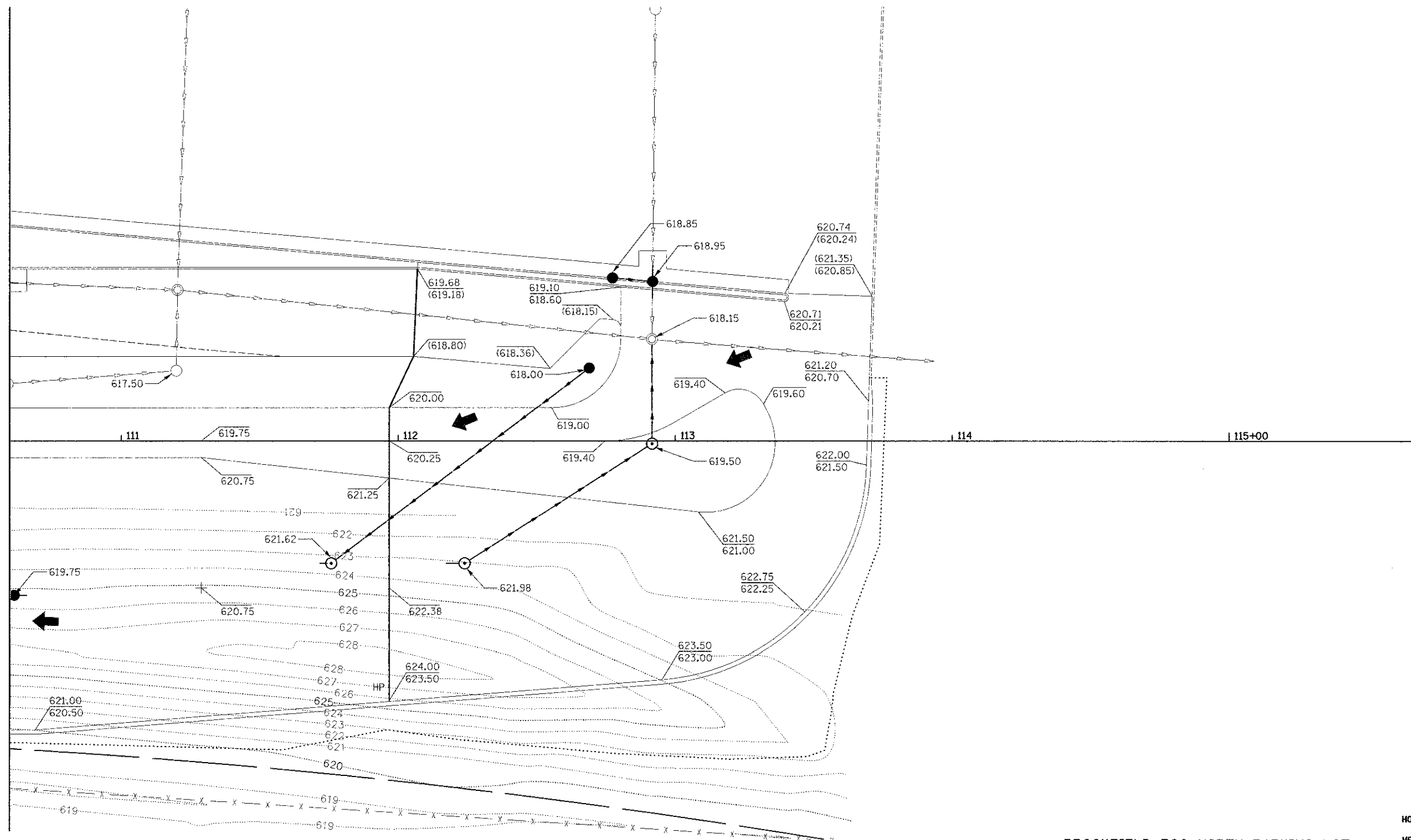


**LEGEND**

- 618.00 TOP OF CURB ELEVATION
- 617.50 FLOW LINE ELEVATION
- (617.50) EXISTING ELEVATION
- DRAINAGE DIVIDE
- ..... GRADING LIMITS
- ..... EXISTING MAJOR CONTOUR
- ..... EXISTING MINOR CONTOUR
- ← OVERLAND FLOW ROUTE



MATCH LINE STA. 110+60  
SEE SHEET NO. 64



BROOKFIELD ZOO NORTH PARKING LOT



FILE NAME = ...N12-grading\2563_605_03.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-25-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 65		
PLST SCALE = 20.0000 / 1"	CHECKED - GAB	REVISIED -	REVISIED -			SCALE: 1" = 20'	SHEET NO. 3 OF 3 SHEETS	STA. 110+50 TO STA. 113+71	CONTRACT NO. 63764			
PLST DATE = 11/28/2012	DATE - 10/22/2012	REVISIED -	REVISIED -			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						

**RELOCATED EXISTING TRAFFIC SIGNS**

- 1 R2-1, 30"x36"
- 2 R3-2, 30"x30"
- 3 R7-1, 12"x18"
- 4 SPECIAL, 24"x18"
- 5 SPECIAL, 24"x18"
- 6 SPECIAL, 36"x30"
- 7 SPECIAL, 48"x24"
- 8 SPECIAL, 24"x30"
- 9 SPECIAL, 18"x24"
- 10 SPECIAL, 36" DIA
- 11 SPECIAL, 18"x18"

**PROPOSED TRAFFIC SIGNS**

- 12 R1-1, 30"x30"
- 13 R3-5R, 30"x36"
- 14 R4-7, 24"x30"
- 15 R4-7a, 24"x30"
- 16 R3-SPECIAL, 36"x36"
- 17 R3-SPECIAL, 36"x36"
- 18 R3-SPECIAL, 36"x36"
- 19 R3-SPECIAL, 36"x36"

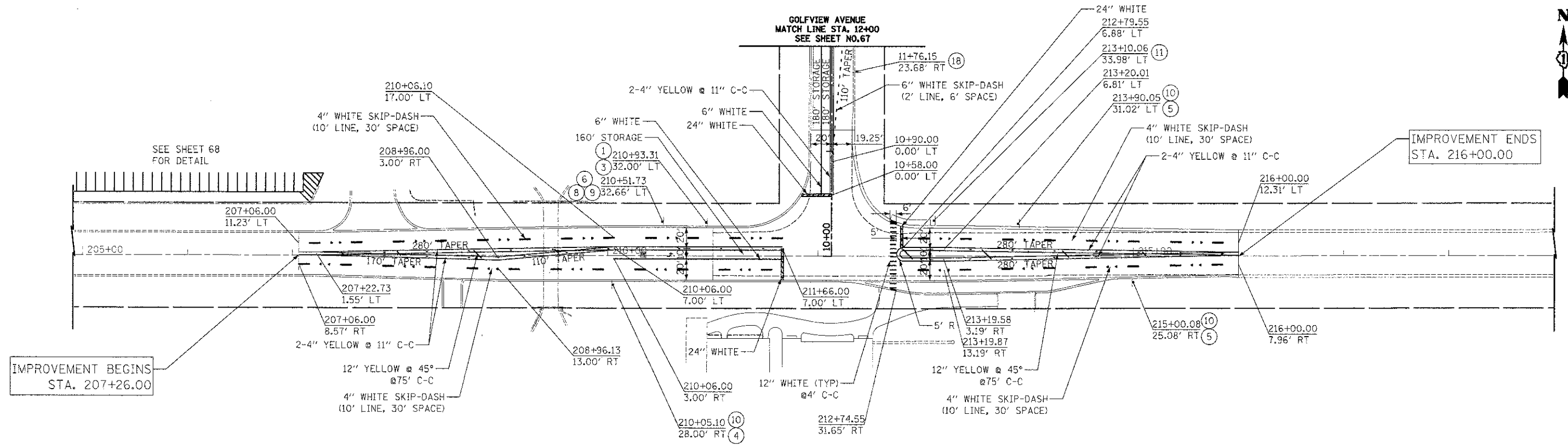
**PROPOSED PARKING LOT SIGNS**

- 20 SPECIAL, SEE DETAIL SHEET 112
- 21 SPECIAL, SEE DETAIL SHEET 112
- 22 SPECIAL, SEE DETAIL SHEET 112
- 23 SPECIAL, SEE DETAIL SHEET 112
- 24 SPECIAL, SEE DETAIL SHEET 112
- 25 SPECIAL, SEE DETAIL SHEET 112
- 26 SPECIAL, SEE DETAIL SHEET 112
- 27 SPECIAL, SEE DETAIL SHEET 112

**RAISED PAVEMENT MARKINGS LEGEND**

- ONE-WAY CRYSTAL
- ONE-WAY AMBER
- TWO-WAY AMBER

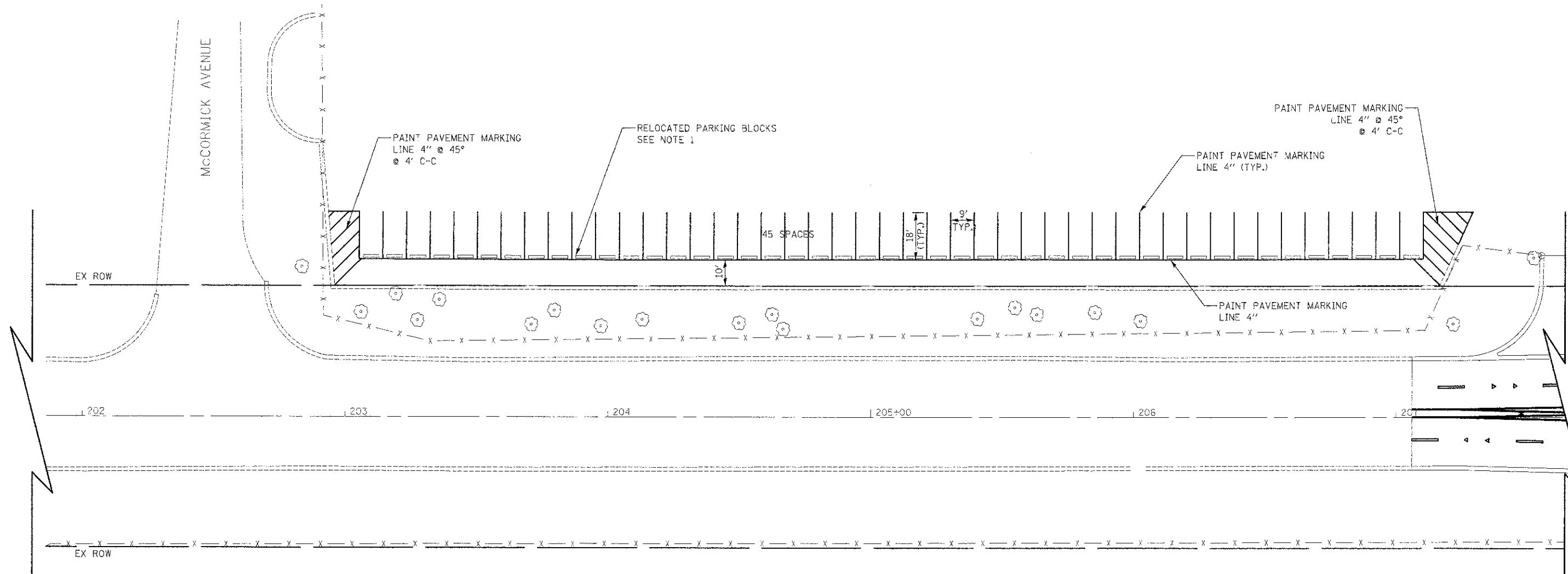
NOTE:  
ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.



31ST STREET

FILE NAME = ... \2863_PMK_01.dgn	USER NAME = dte	DESIGNED - DTE	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND SIGNING PLAN</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PX	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 66
	PLOT SCALE = 50.0000 / in.	CHECKED - GAB	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	CONTRACT NO. 63764
PLOT DATE = 11/9/2012	DATE = 10/22/2012	REVISED -	REVISED -			FED. AID PROJECT				





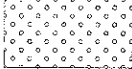
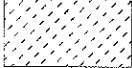
NOTES:

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

31ST STREET



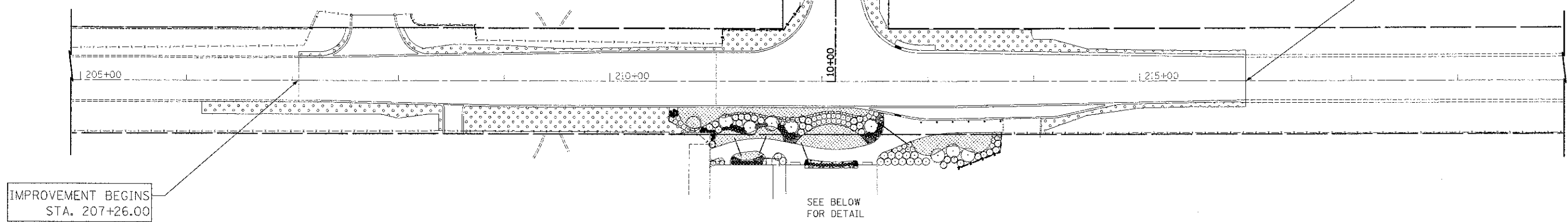
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	PLOT SCALE = 20.0000' / in.	CHECKED - GAB	REVISED -				CONTRACT NO. 63764				
	PLOT DATE = 11/9/2012	DATE = 10/22/2012	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 20'		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.			

-  SEEDING, CLASS 2A  
EXCAVATED TOPSOIL PLACEMENT, 4 INCH
-  SODDING, SALT TOLERANT

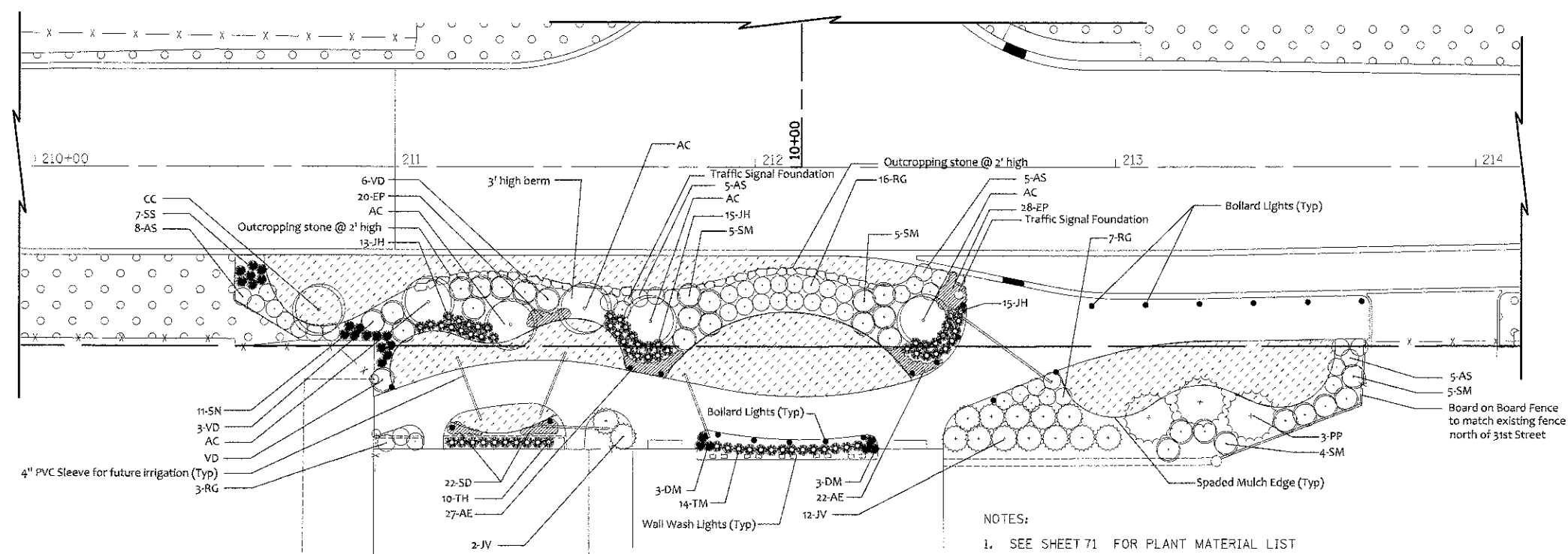
MATCH LINE STA. 12+00  
SEE SHEET NO. 70



IMPROVEMENT ENDS  
STA. 216+00.00



31ST STREET



- NOTES:
- SEE SHEET 71 FOR PLANT MATERIAL LIST
  - 6 INCHES OF TOPSOIL SHALL BE PLACED UNDER NEW SOD AND PLANTINGS. THIS WORK SHALL BE INCLUDED IN THE COST OF "TOPSOIL EXCAVATION AND PLACEMENT."
  - TOPSOIL SHALL BE USED TO BUILD UP THE BERM, THIS WORK SHALL BE PAID FOR AS "TOPSOIL FURNISH AND PLACE, 24 INCH"

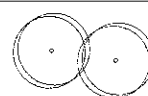
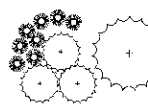
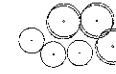



31ST STREET

FILE NAME = ...14-Landscaping\2563.LSC.01.dgn	USER NAME = dte	DESIGNED - KTK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b>	P.A.U. I RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 69	
PLOT SCALE = 50.0000' / 1"	CHECKED - GAB	REVISED -	SCALE: 1" = 50'			SHEET NO. 1 OF 3 SHEETS	STA. 207+26.00 TO STA. 216+00.00	FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63764	
PLOT DATE = 11/9/2012	DATE - 10/22/2012	REVISED -				FED. AID PROJECT					





**31st STREET PLANT MATERIAL LIST**

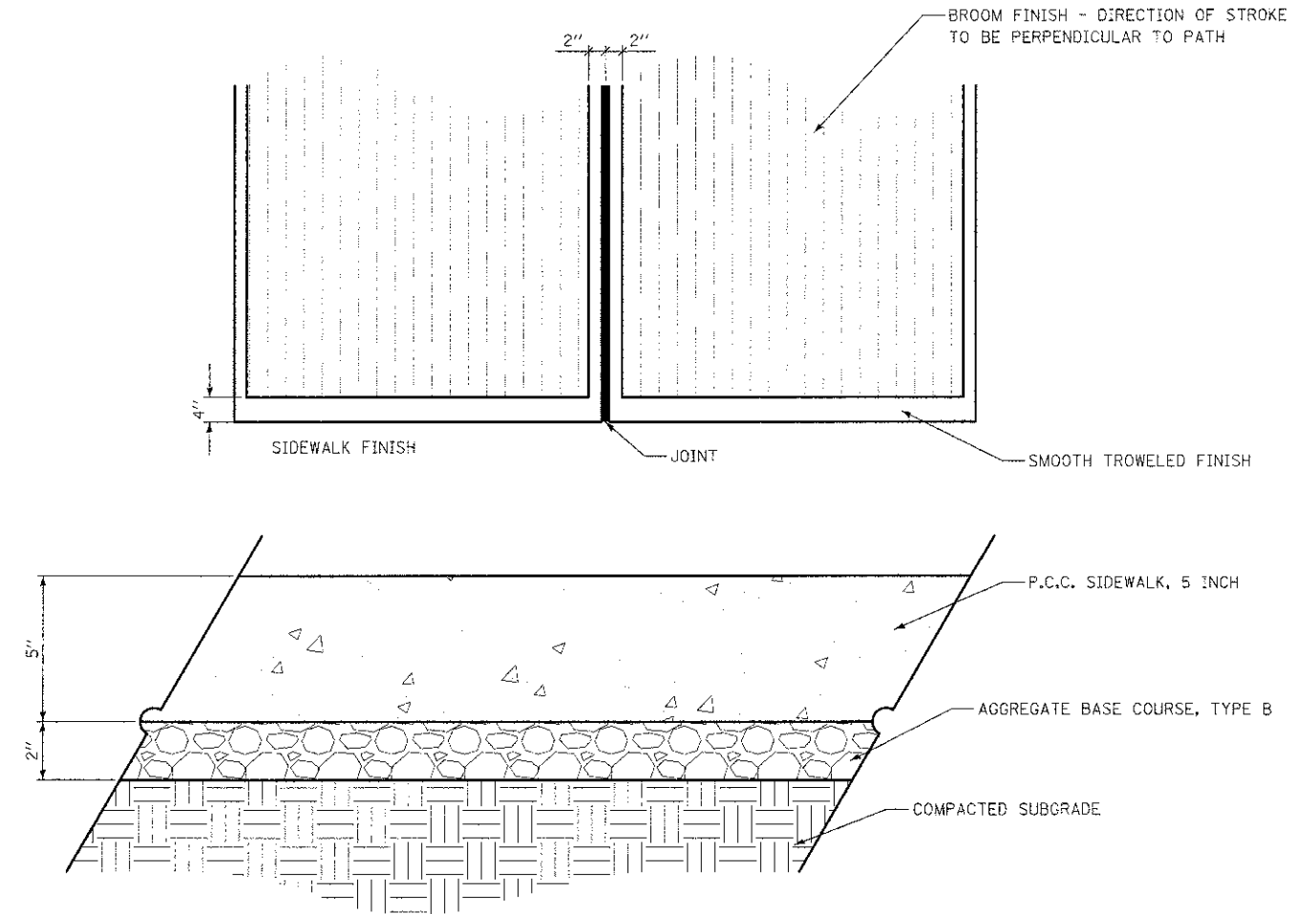
	SYM	QTY	BOTANICAL NAME	IDOT ABBREVIATION
	AC	5	ORNAMENTAL TREES	
	CC	1	Amelanchier canadensis Cercis canadensis	T-AMELAN CAN SF 6' T-CERCIS CAN CL 6'
	JH	43	EVERGREENS	
	JV	14	Juniperus horizontalis	E-JUNIP HOR WIL 18C
	PP	3	Juniperus virginiana	E-JUNIP VIRG 6'
	TH	10	Picea pungens	E-PICEA PUNGENS 6'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

**NORTH PARKING LOT PLANT MATERIAL LIST**

	SYM	QTY	BOTANICAL NAME	IDOT ABBREVIATION
	RG	29	SHRUBS	
			Rhus aromatica 'Gro Low'	S-RHUS AROMA GRO 18C
	EP	0.27	PERENNIALS	
	RT	0.35	Echinacea pallida 'Pale Coneflower'	P PL ORNAMENT T GAL P
	SD	0.26	Rudbeckia triloba 'Three-lobed Coneflower'	P PL ORNAMENT T GAL P
	SN	0.24	Stylophorum diphyllum 'Celandine Poppy'	P PL ORNAMENT T GAL P
	SS	0.17	Sorghastrum nutans 'Indian Grass'	P PL ORNAMENT T 3G P
		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

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

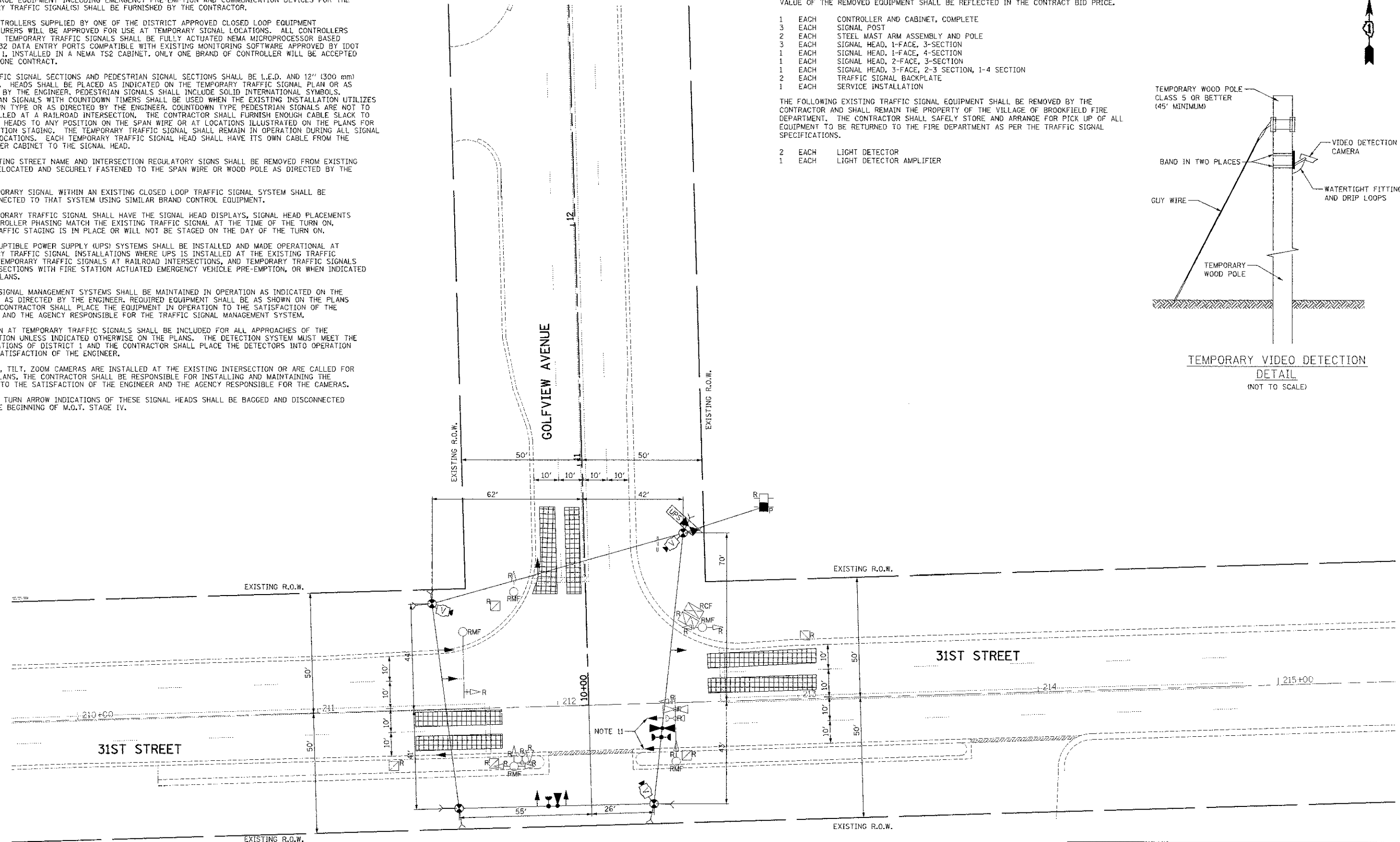
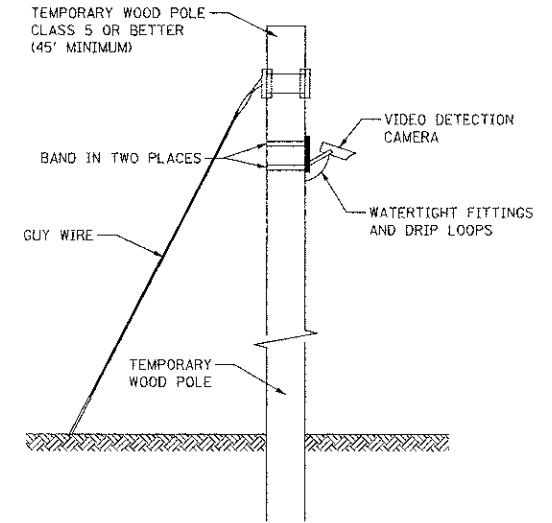
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. 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.
- 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.
- 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.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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



**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.



USER NAME = mfb  
 PLOT SCALE = 20.0000' / 1" = 1/8"  
 PLOT DATE = 12/12/2012

DESIGNED - BRD  
 DRAWN - MFB  
 CHECKED - JJE  
 DATE - 10/22/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

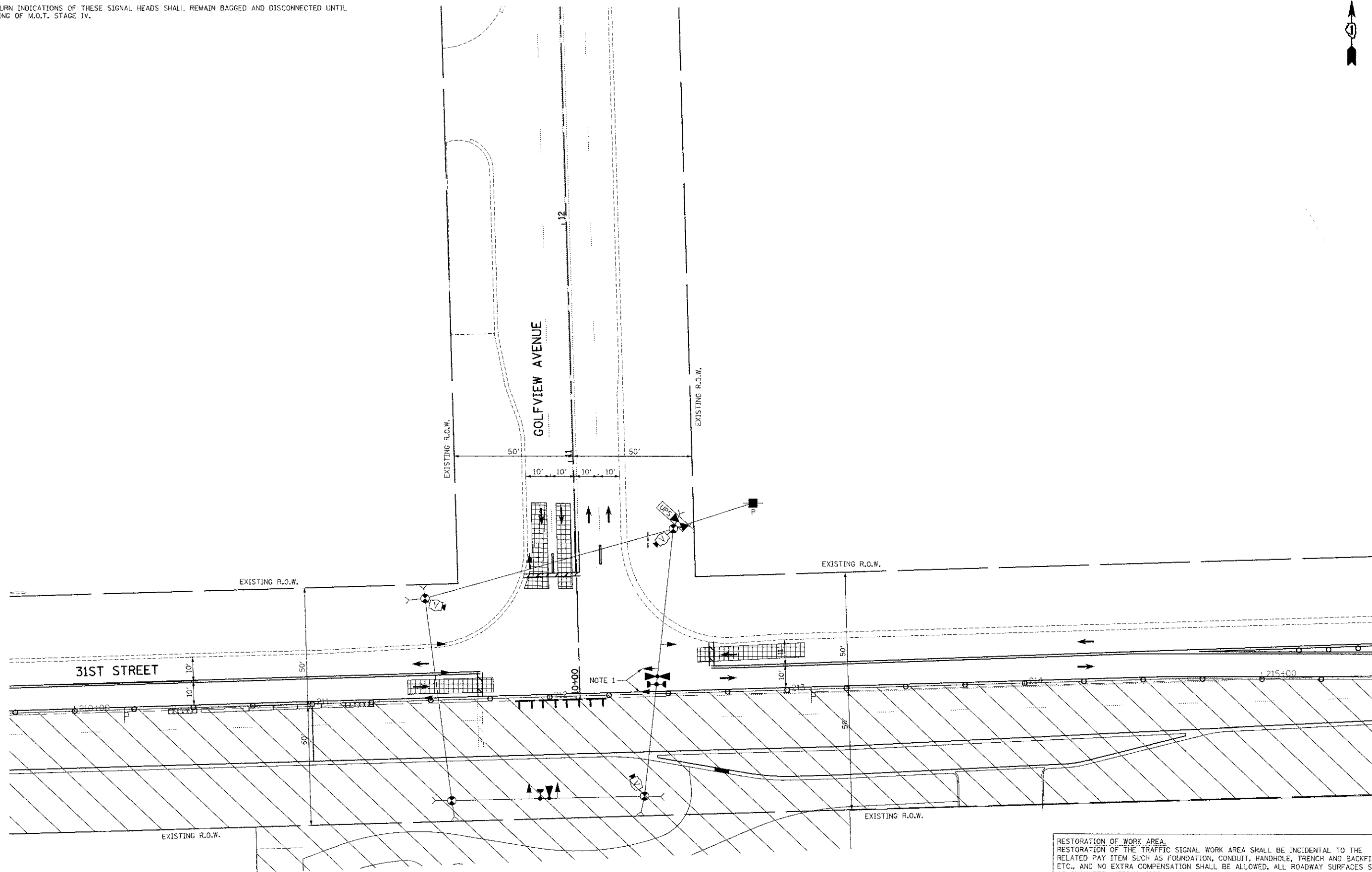
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	135	72
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				<b>CONTRACT NO. 63764</b>



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.



USER NAME = wfb	DESIGNED - BRD	REVISED -
PLT SCALE = 20.0000 1" = 20'	DRAWN - MFB	REVISED -
PLT DATE = 12/12/2012	CHECKED - JUE	REVISED -
	DATE - 12/XX/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

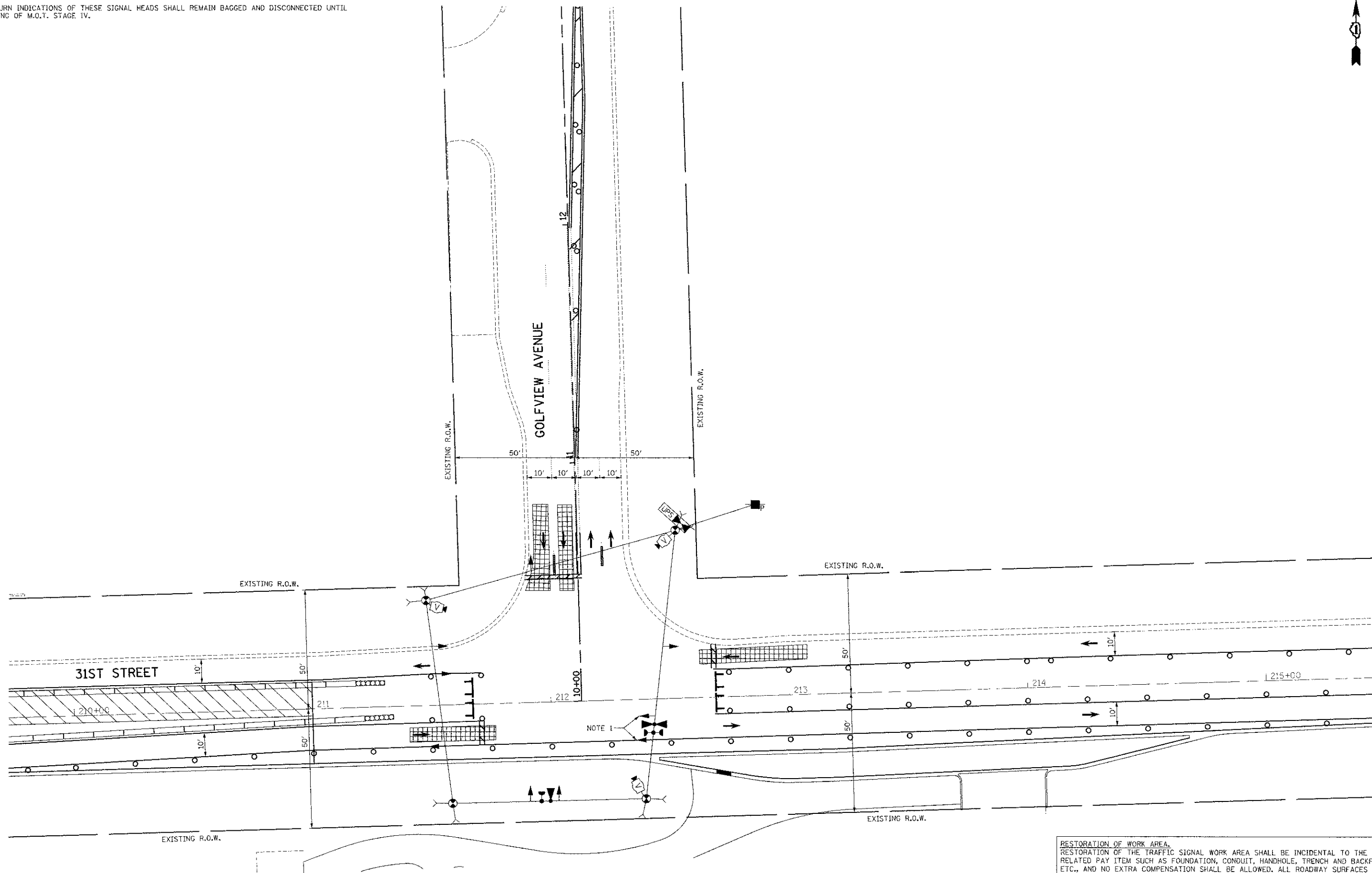
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	72A
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63764

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 SOO, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



USER NAME = mfb	DESIGNED - BRD	REVISED -
DRAWN - MFB	REVISOR -	REVISOR -
CHECKED - JJE	REVISOR -	REVISOR -
DATE - 12/XX/2012	REVISOR -	REVISOR -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

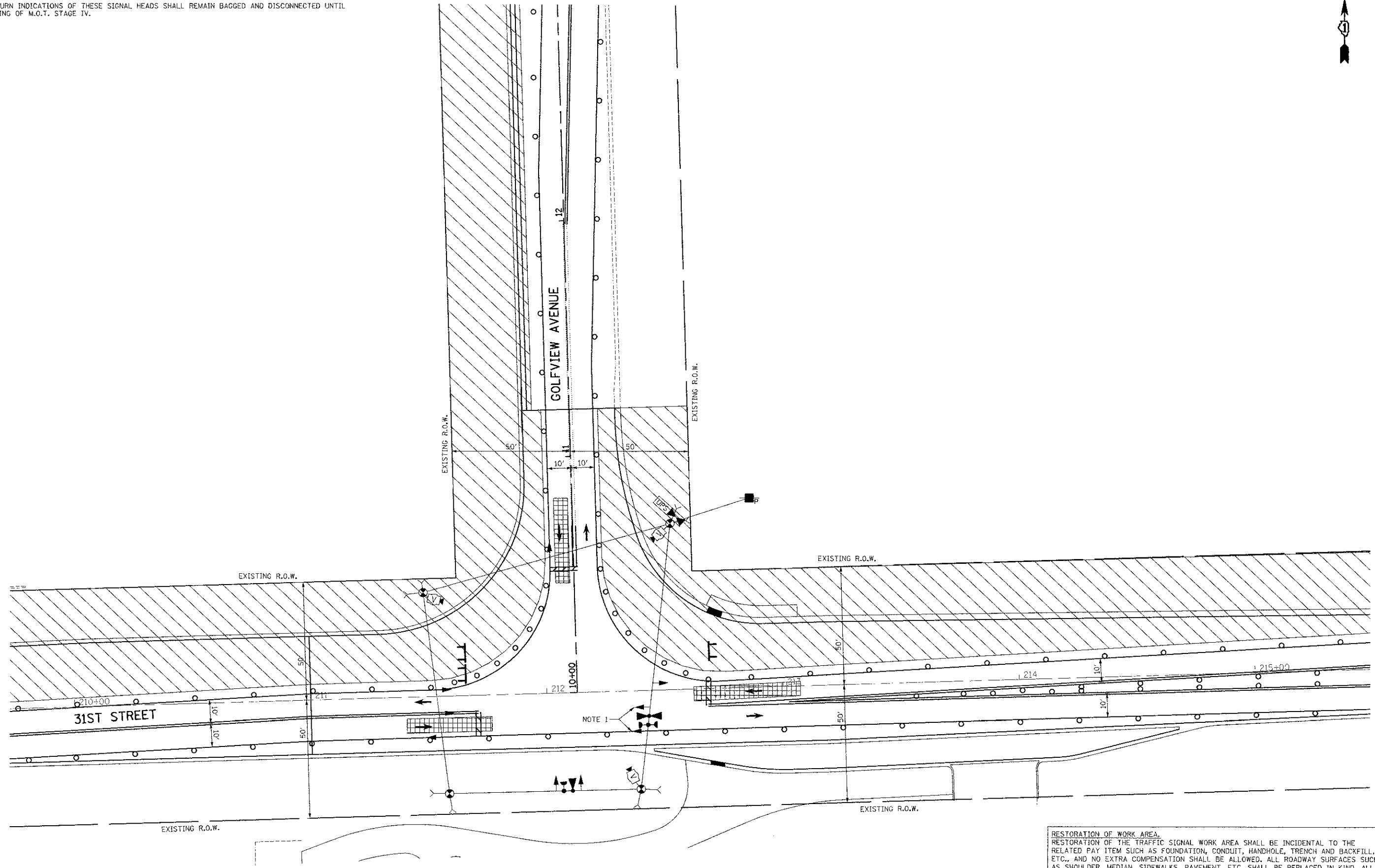
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	72B
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

CONTRACT NO. 63764

NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 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.



USER NAME = MFB	DESIGNED - BRD	REVISED -
PLST SCALE = 20.0000 1" = 20'	DRAWN - MFB	REVISED -
PLST DATE = 12/12/2012	CHECKED - JJE	REVISED -
	DATE - 12/XX/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

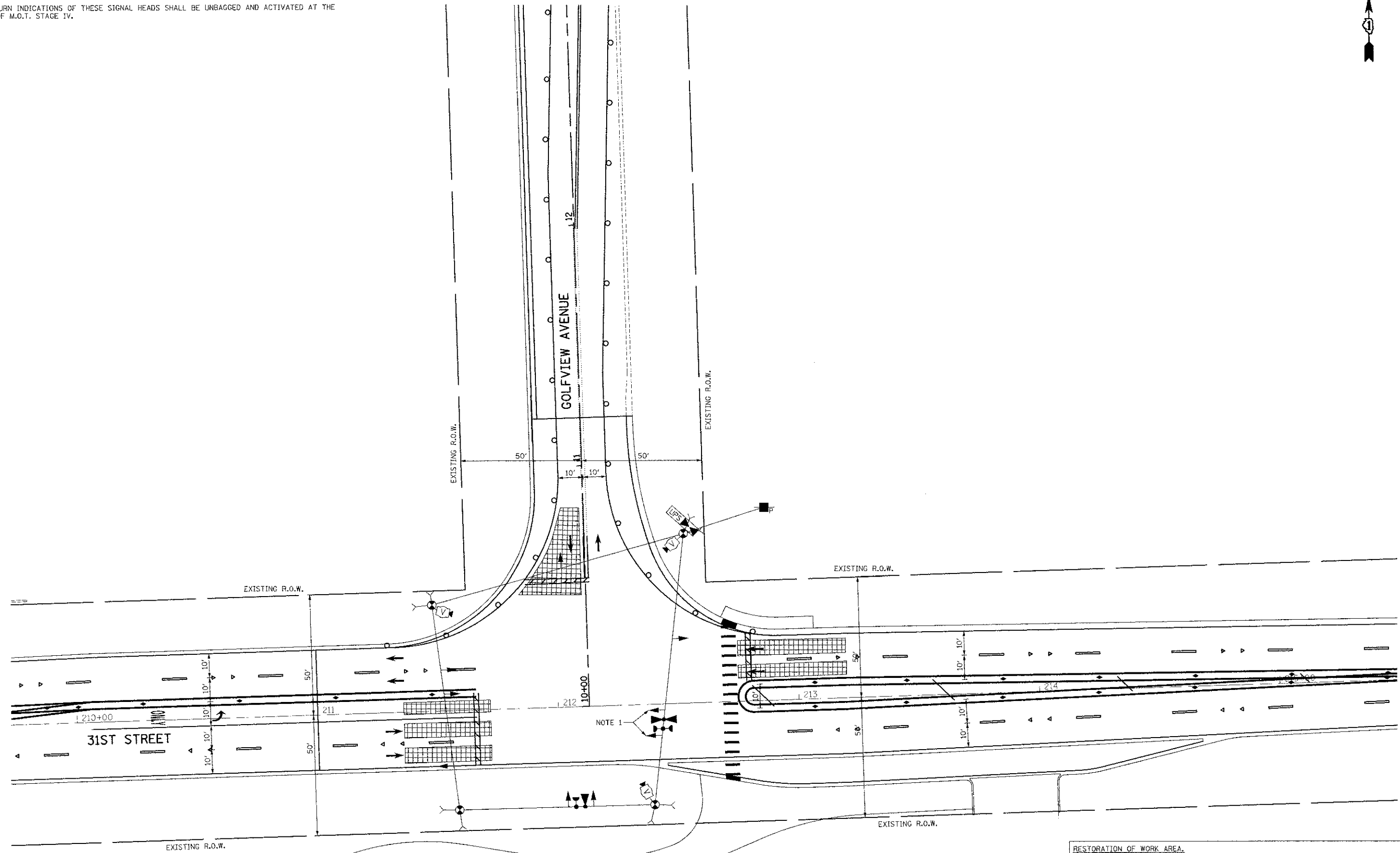
TEMPORARY TRAFFIC SIGNAL STAGING PLAN  
 GOLFWIEV AVENUE AT 31ST STREET - M.O.T. STAGE III

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	133	720
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63764	

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.



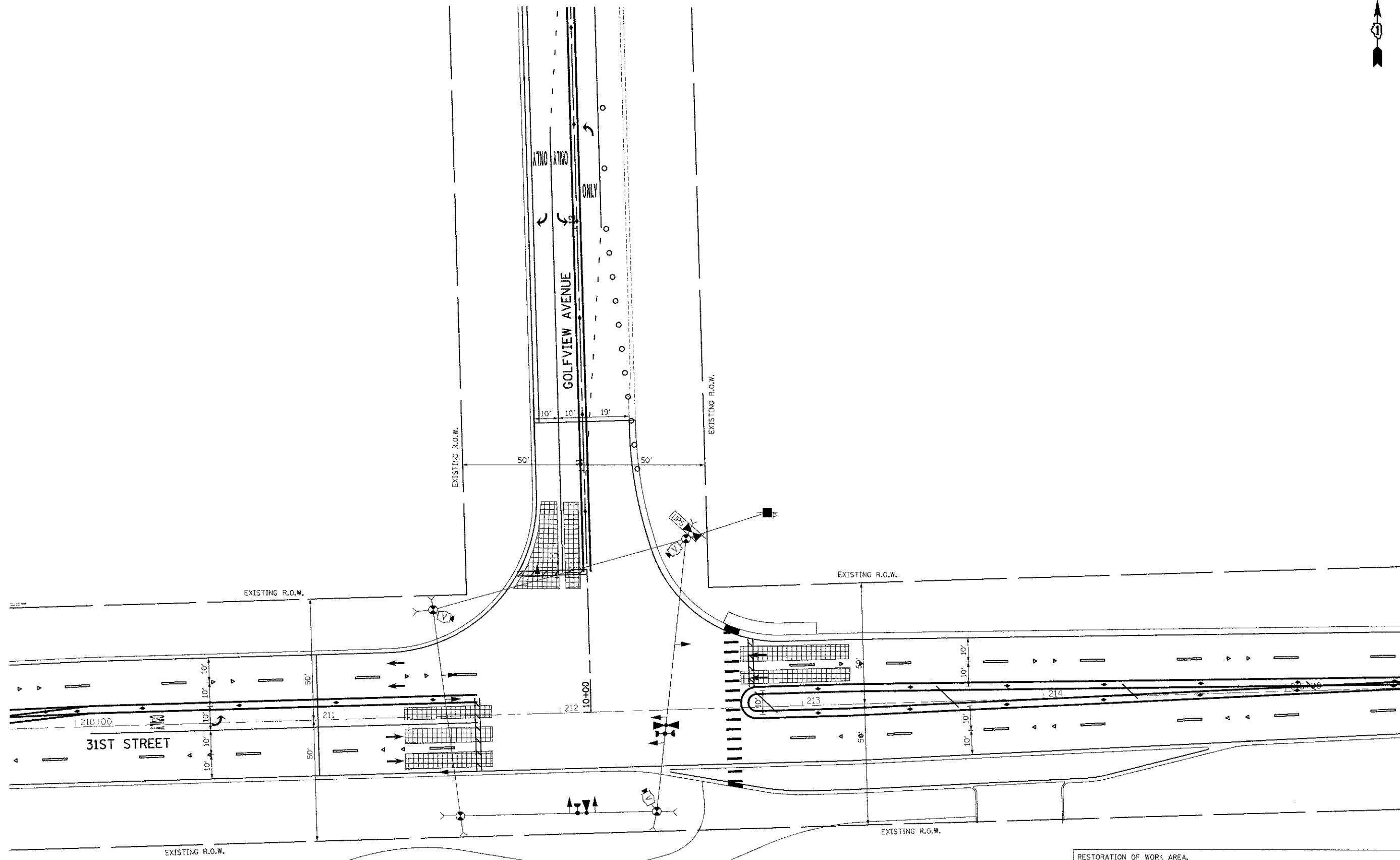
USER NAME = mfb	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20,000 / 1"	CHECKED - JJE	REVISED -
PILOT DATE = 12/12/2012	DATE - 12/XX/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL STAGING PLAN  
 GOLFWVIEW AVENUE AT 31ST STREET - M.O.T. STAGE IV**

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

F.A.J. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 72D
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				CONTRACT NO. 63764



USER NAME = mfb	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20,0000 1" = 100'	CHECKED - JJJ	REVISED -
PLOT DATE = 12/2/2012	DATE - 12/XX/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

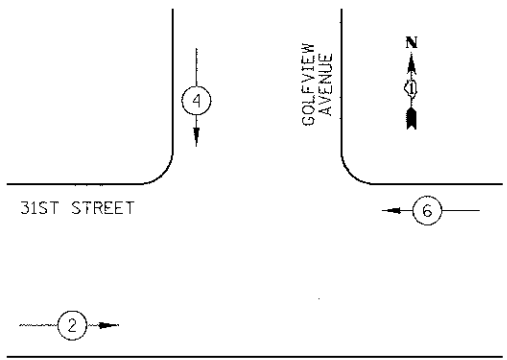
**TEMPORARY TRAFFIC SIGNAL STAGING PLAN  
 GOLFVIEW AVENUE AT 31ST STREET - M.O.T. STAGE V**

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

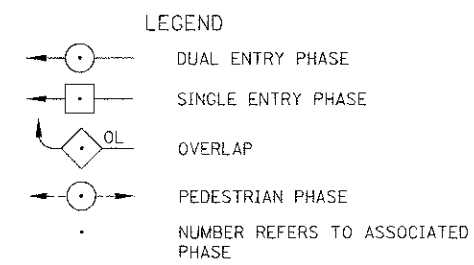
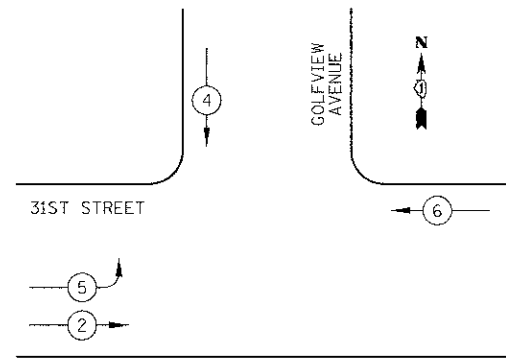
F.A.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	72
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63764	



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

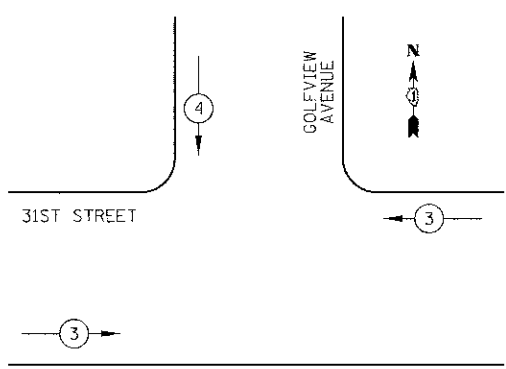


TEMPORARY CONTROLLER SEQUENCE M.O.T. STAGES IV-V

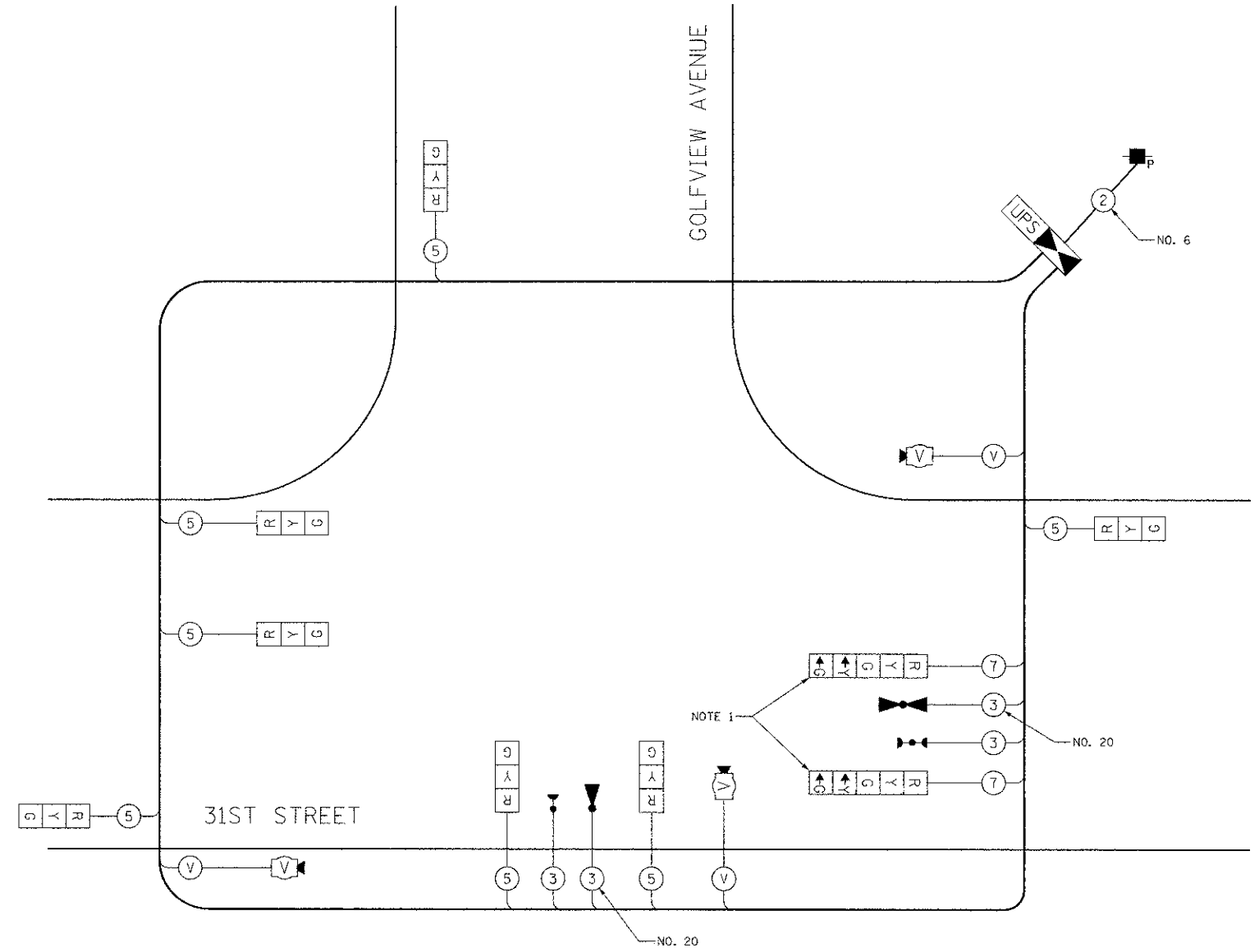


TEMPORARY PHASE DESIGNATION DIAGRAM

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



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		



TEMPORARY CABLE PLAN  
NOT TO SCALE

TEMPORARY CABLE PLAN NOTES

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
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
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					

USER NAME = bnd	DESIGNED - BRD	REVISED -
PLOT SCALE = 20,000' / 1" = 1/2"	DRAWN - MFB	REVISED -
PLOT DATE = 12/13/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

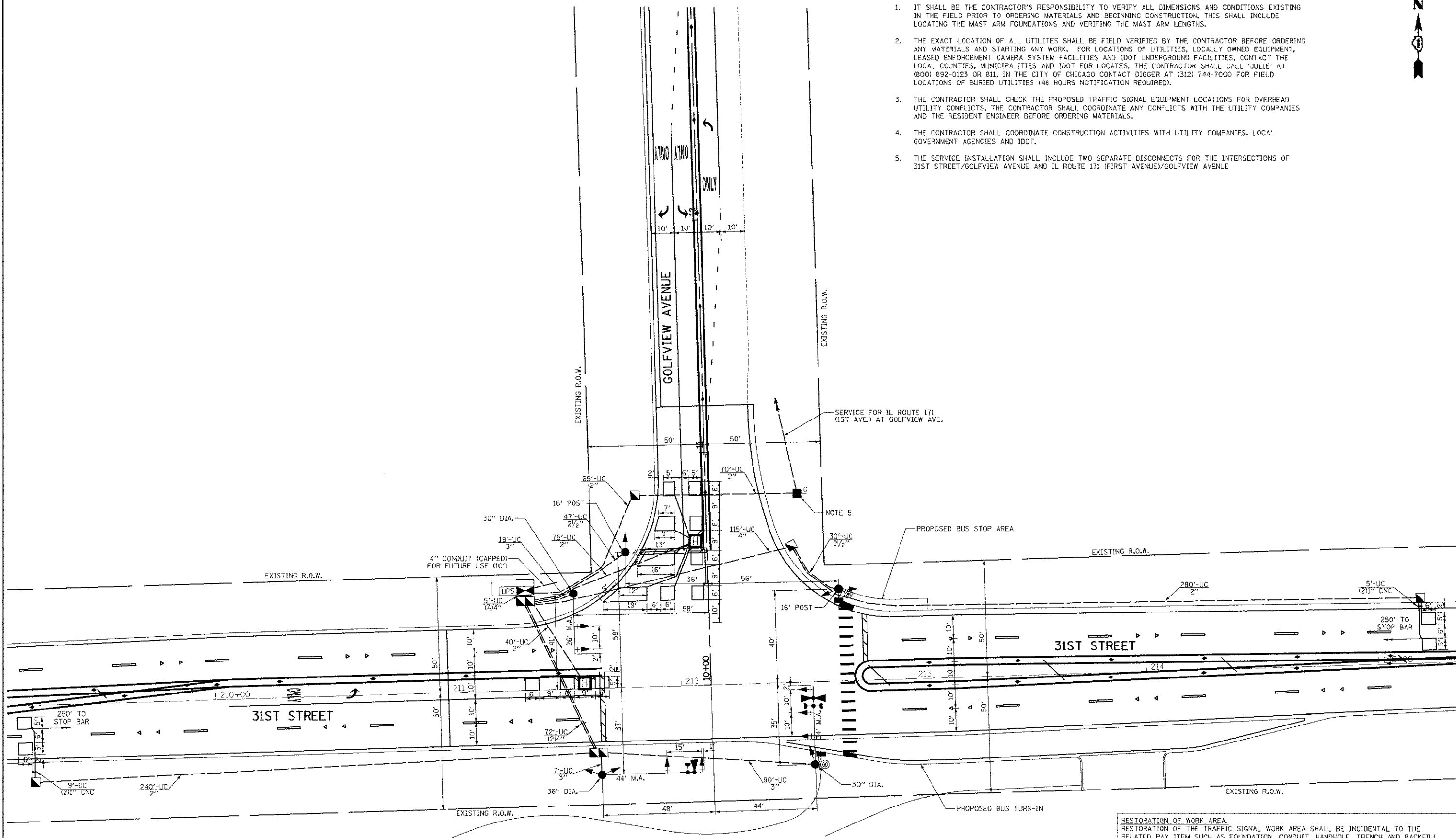
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAMS,  
& TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCES  
GOLFVIEW AVENUE AT 31ST STREET

F.A.I.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	73
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 63764	

TRAFFIC SIGNAL NOTES



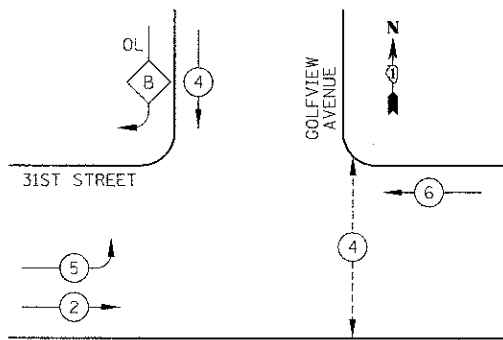
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
2. THE EXACT LOCATION OF ALL UTILITIES SHALL BE 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 (1ST AVENUE)/GOLFVIEW AVENUE



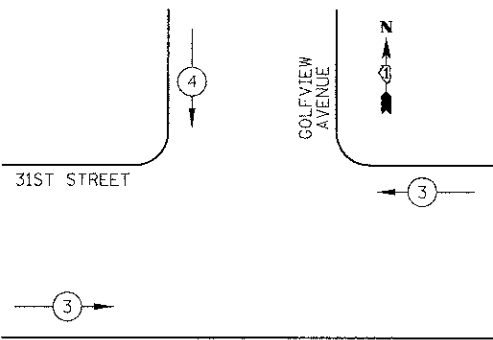
**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. 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.

	USER NAME = mfb	DESIGNED = BRD	REVISED =	<b>STATE OF ILLINOIS                  DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION PLAN                  GOLFVIEW AVENUE AT 31ST STREET</b>		F.A.U. RTE. = 3764	SECTION = 12-F3000-23-PK	COUNTY = COOK	TOTAL SHEETS = 133	SHEET NO. = 74	
	PLOT SCALE = 28,0000 1/4" = 1'-0"	DRAWN = MFB	REVISED =		SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 63764	
	PLOT DATE = 12/12/2012	CHECKED = JJE	REVISED =		DATE = 10/22/2012	REVISED =						

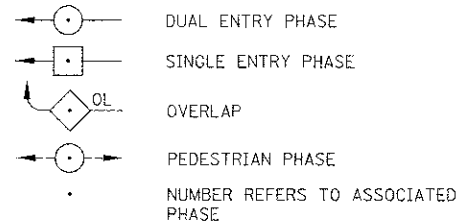
PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

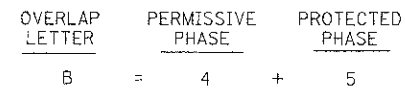


LEGEND



PHASE DESIGNATION DIAGRAM

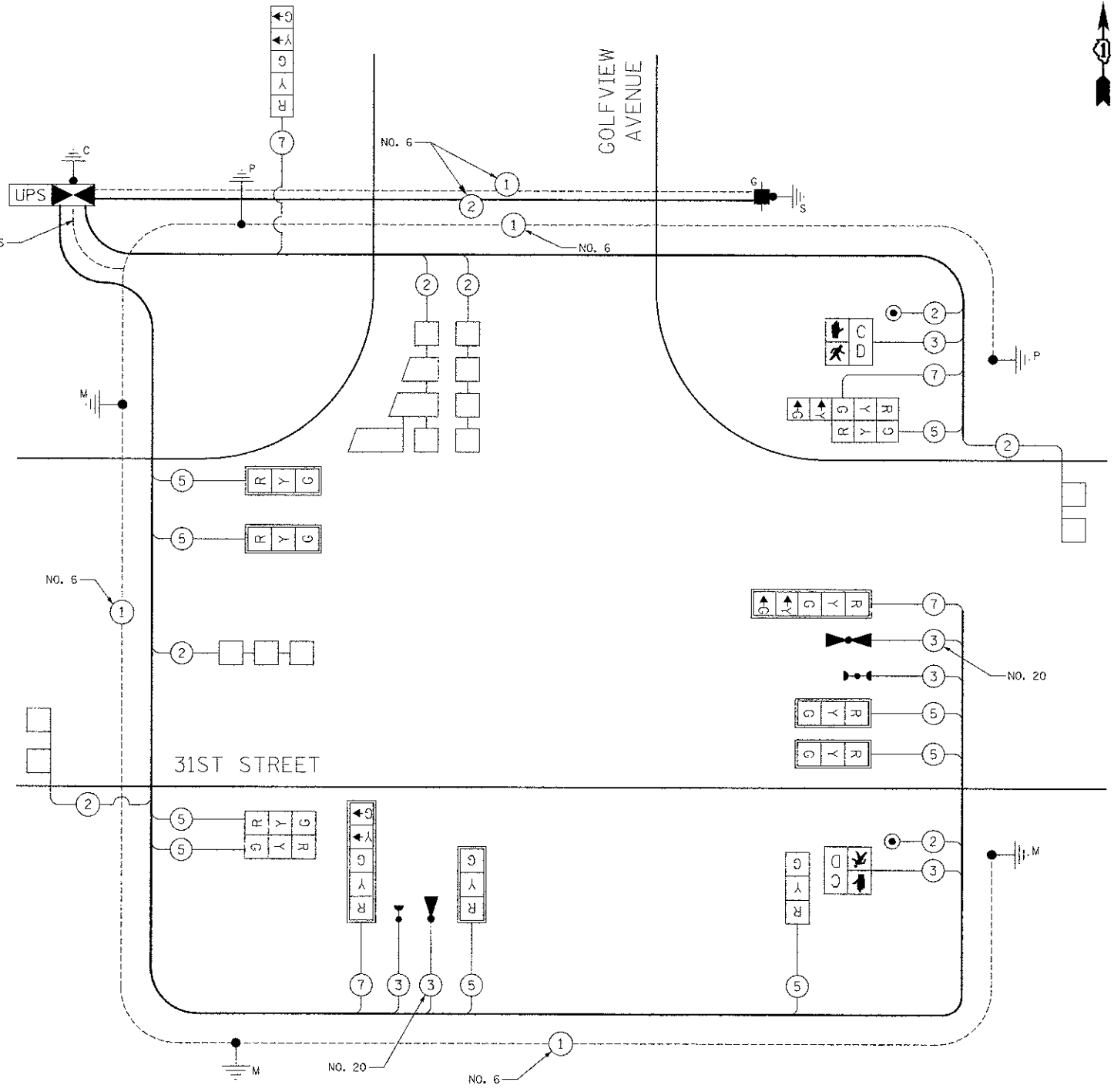
RIGHT TURN OVERLAP PHASE DESIGNATION



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 CONTROLLER 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		% OPERATION	
SIGNAL (RED)	13	INCAND.	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
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					



USER NAME: b-r-d  
PLOT SCALE = 20,000% / 1" = 100'  
PLOT DATE = 12/13/2012

DESIGNED - BRD  
DRAWN - MFB  
CHECKED - JJE  
DATE - 10/22/2012

REVISED -  
REVISED -  
REVISED -  
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	133	75
CONTRACT NO. 63764				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

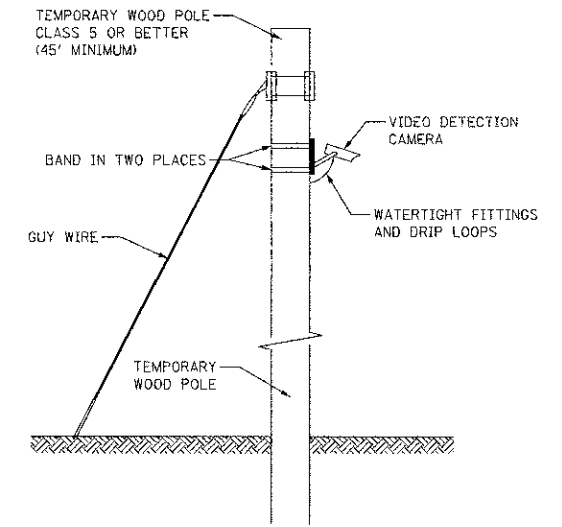
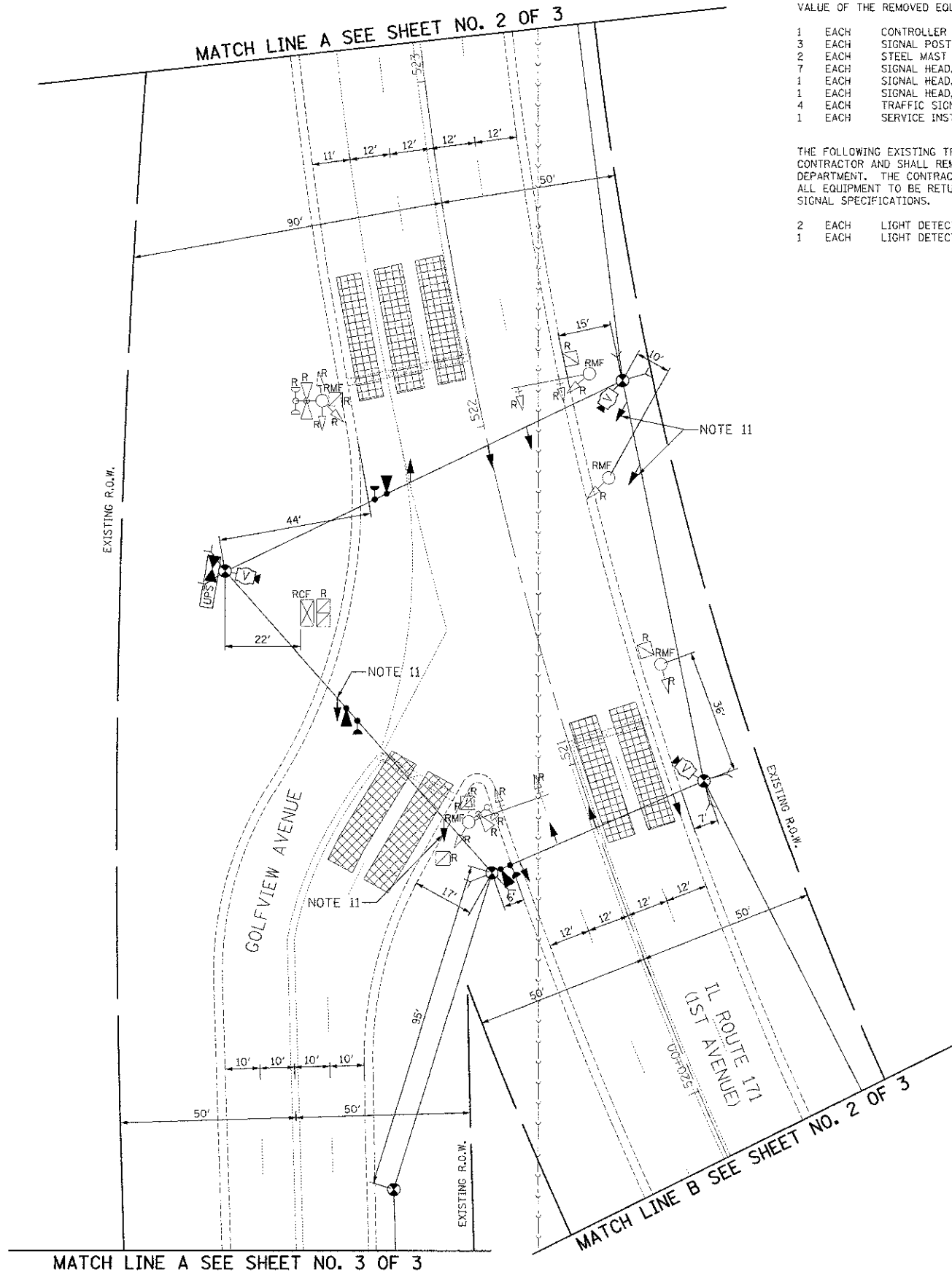
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. 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.
- 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.
- 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.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 171 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

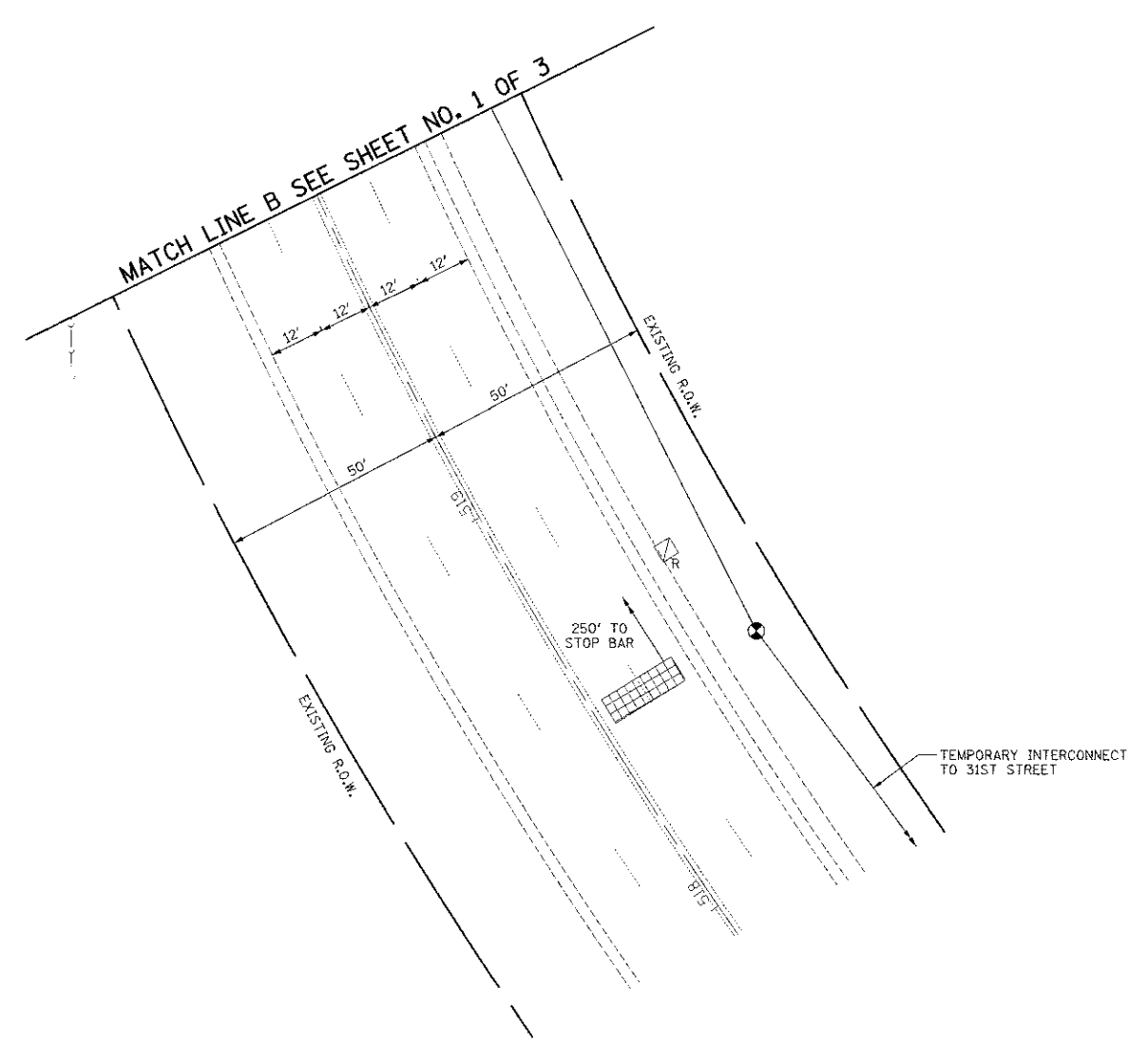
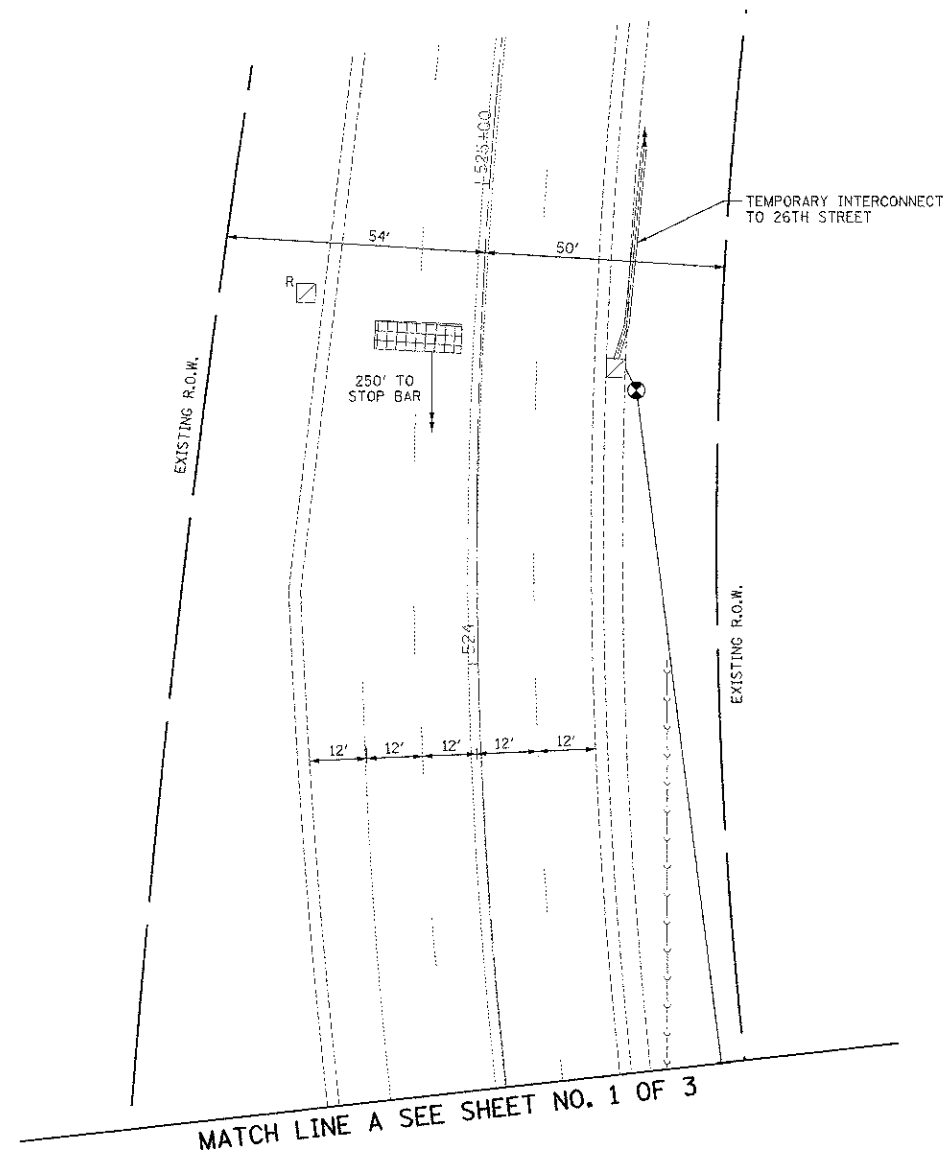


**TEMPORARY VIDEO DETECTION  
DETAIL  
(NOT TO SCALE)**

**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.

	USER NAME - mfb	DESIGNED - BRD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) - M.O.T. STAGES I-V</b>	F.A.I.L. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 76
	PLOT SCALE - 20,000% 1" = 10'	DRAWN - MFB	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 63764 FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT	
	PLOT DATE - 12/12/2012	CHECKED - JJE	REVISED -							
		DATE - 10/22/2012	REVISED -							



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.

	USER NAME = mfb	DESIGNED - BRD	REVISED -
	PLOT SCALE = 20X/3000" = 1/150'	DRAWN - MFB	REVISED -
	PLOT DATE = 12/12/2012	CHECKED - JJE	REVISED -
		DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN  
 GOLFOVIEW 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. 3784	SECTION 12-F-3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 77
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**CONTRACT NO. 63764**

MATCH LINE A SEE SHEET NO. 1 OF 3


MATCH LINE B

MATCH LINE C



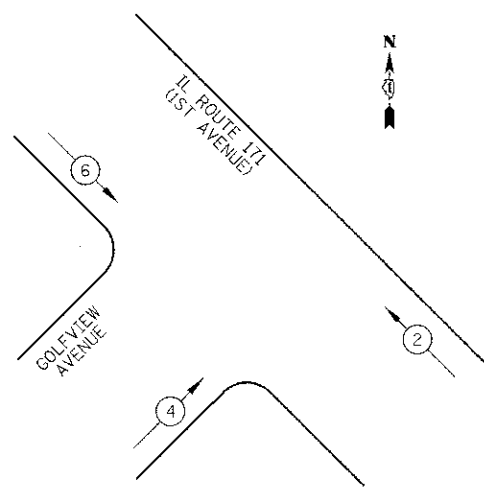
RESTORATION OF WORK AREA.  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL 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.

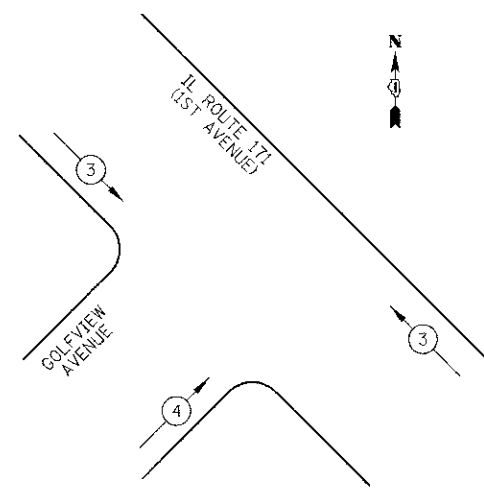
	USER NAME - mfb	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVAL PLAN GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE) - STAGES I-V		F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 78	
	PLOT SCALE = 20,1085' / 1" = 20'	CHECKED - JJE	REVISED -		SCALE: 1" = 20'	SHEET NO. 3 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 63764				
	PLT DATE - 12/12/2012	DATE - 10/22/2012	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



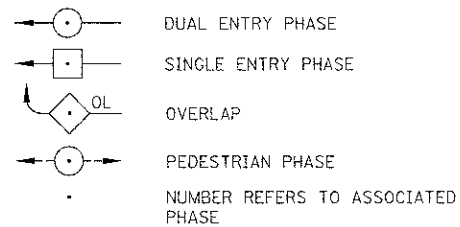
TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

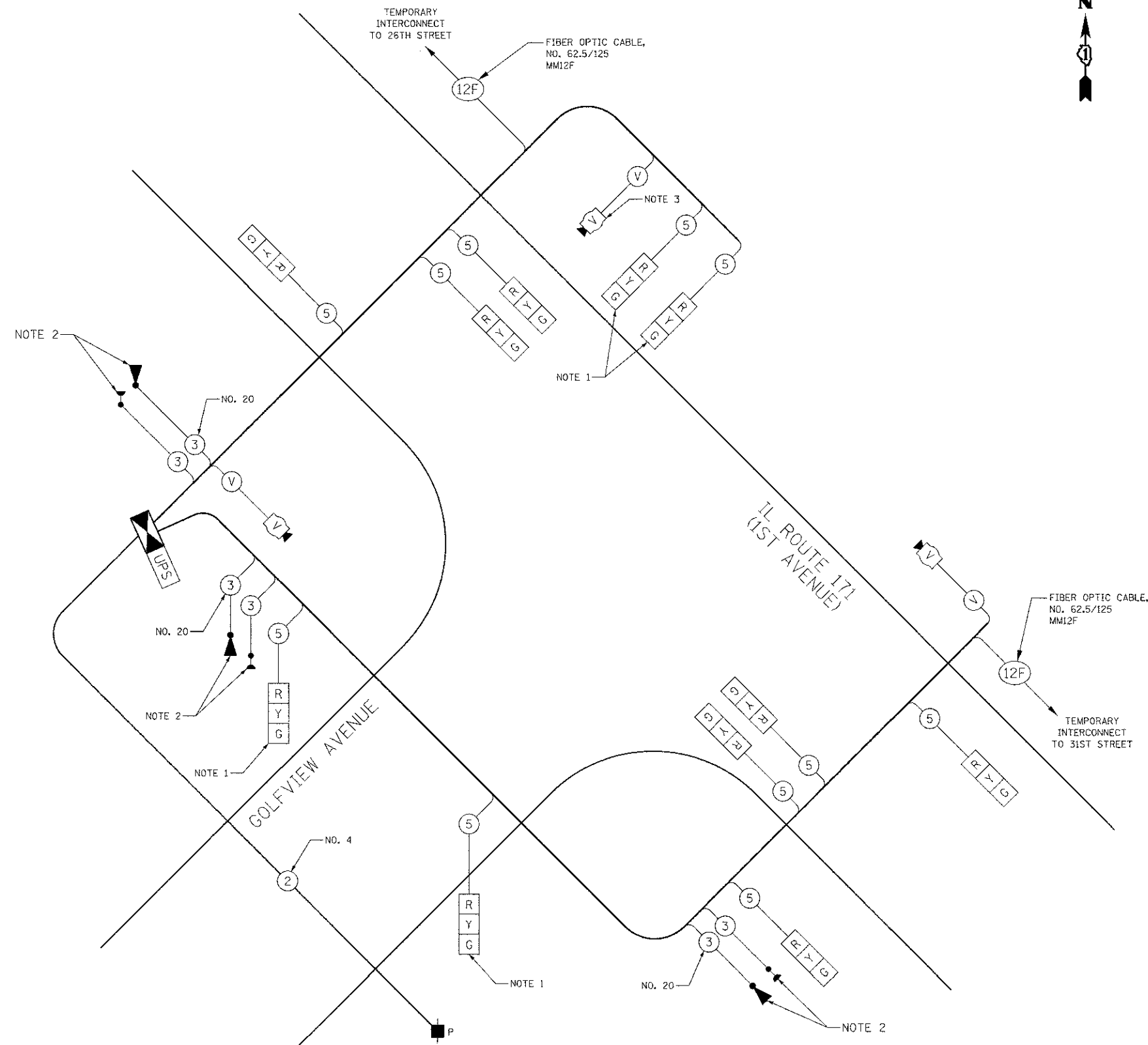


TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

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

TEMPORARY PHASE DESIGNATION DIAGRAM

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



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.

TEMPORARY CABLE PLAN  
NOT TO SCALE

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
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	
TOTAL =					455
FLASHER			0.50		

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

USER NAME = mfb  
DRAWN = MFB  
CHECKED = JJE  
DATE = 10/22/2012  
PLOT SCALE = 20:3000 1/2 IN.  
PLOT DATE = 12/12/2012

DESIGNED = BRD  
DRAWN = MFB  
CHECKED = JJE  
DATE = 10/22/2012  
REVISED = -  
REVISED = -  
REVISED = -  
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

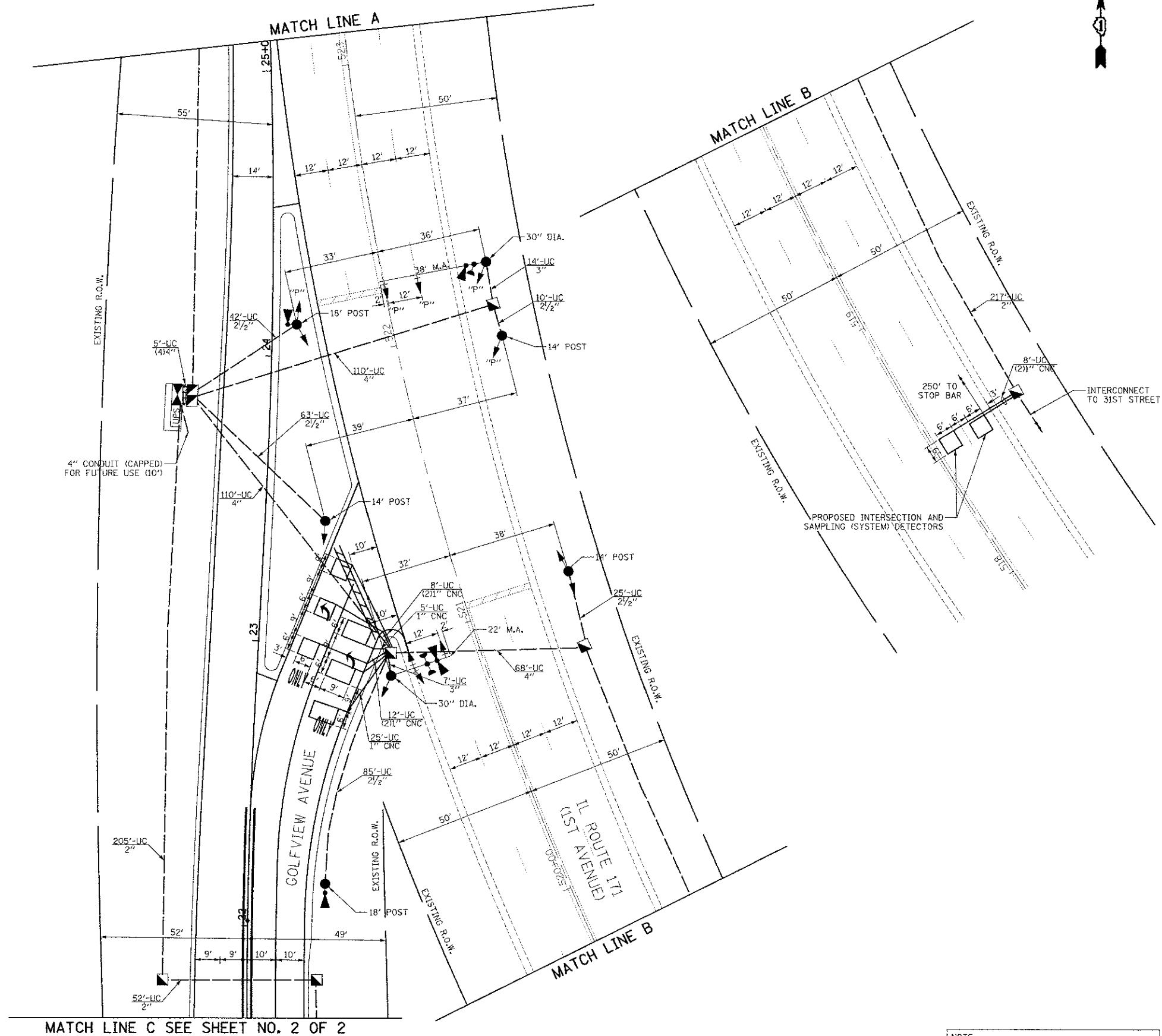
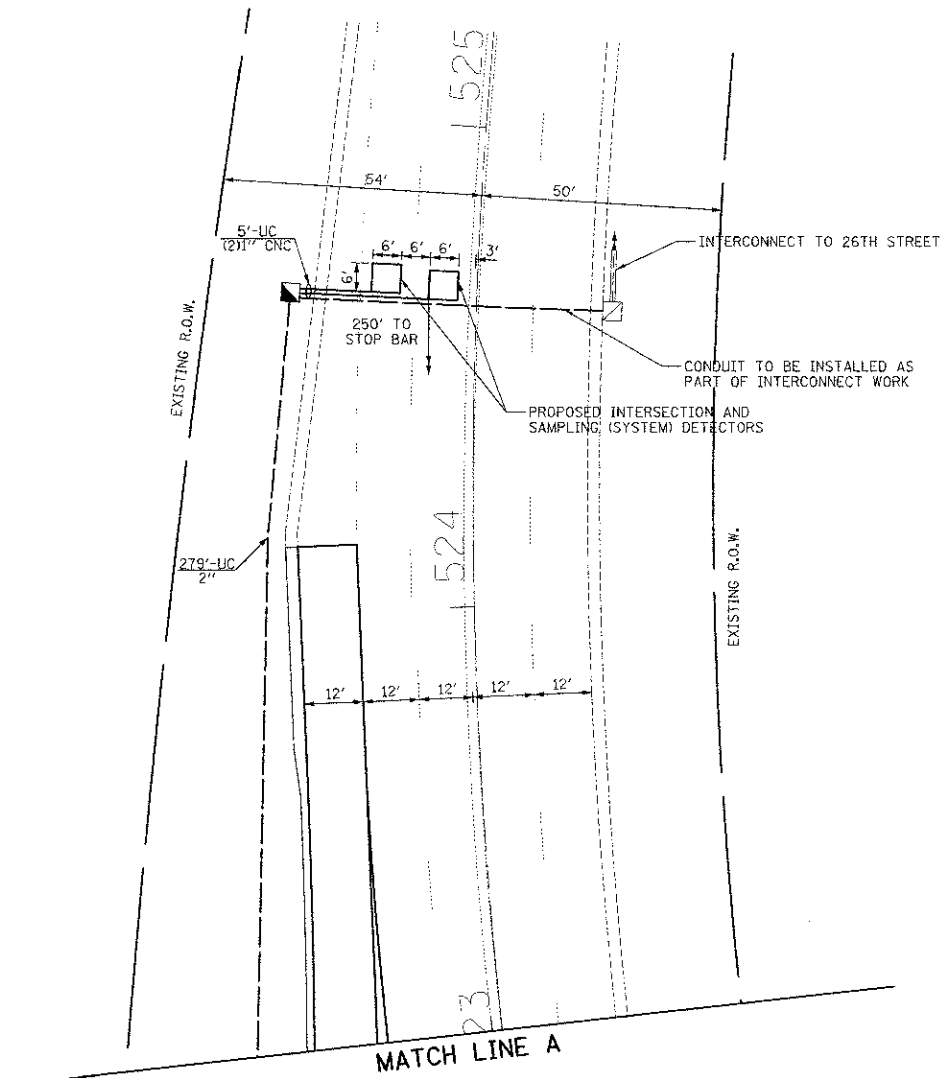
NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	79
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63764	



TRAFFIC SIGNAL NOTES

- 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 VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES 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).
- 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.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- 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.

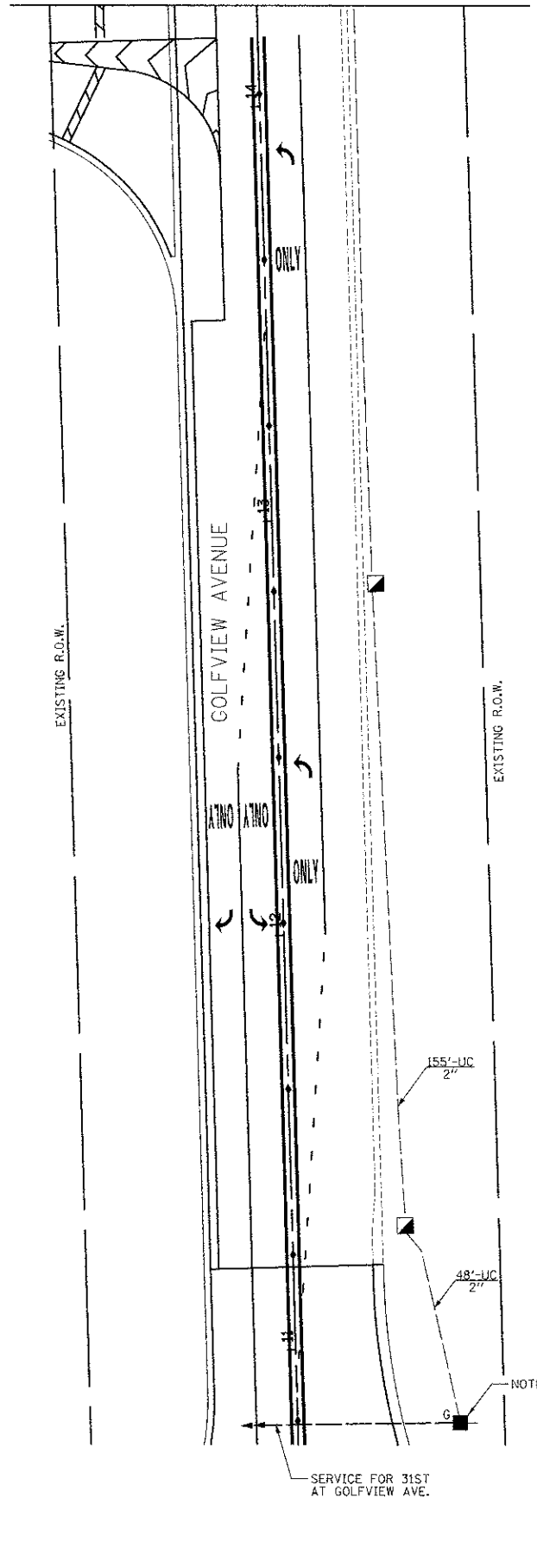
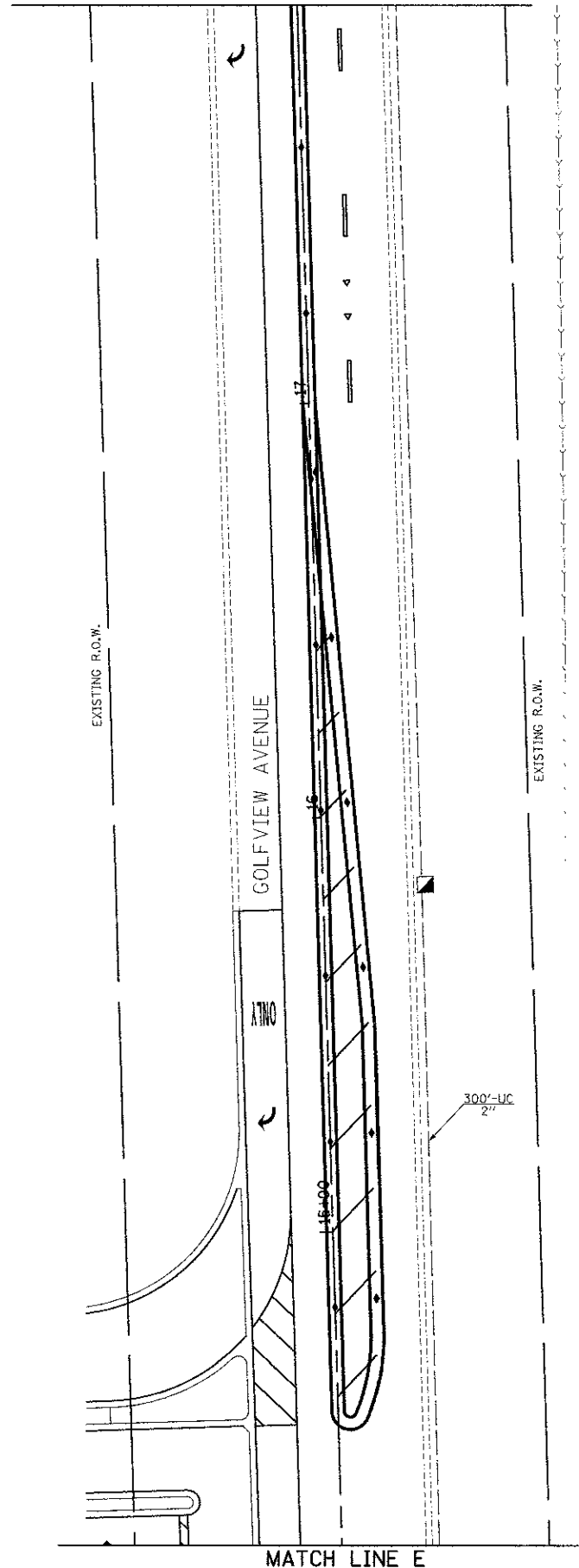
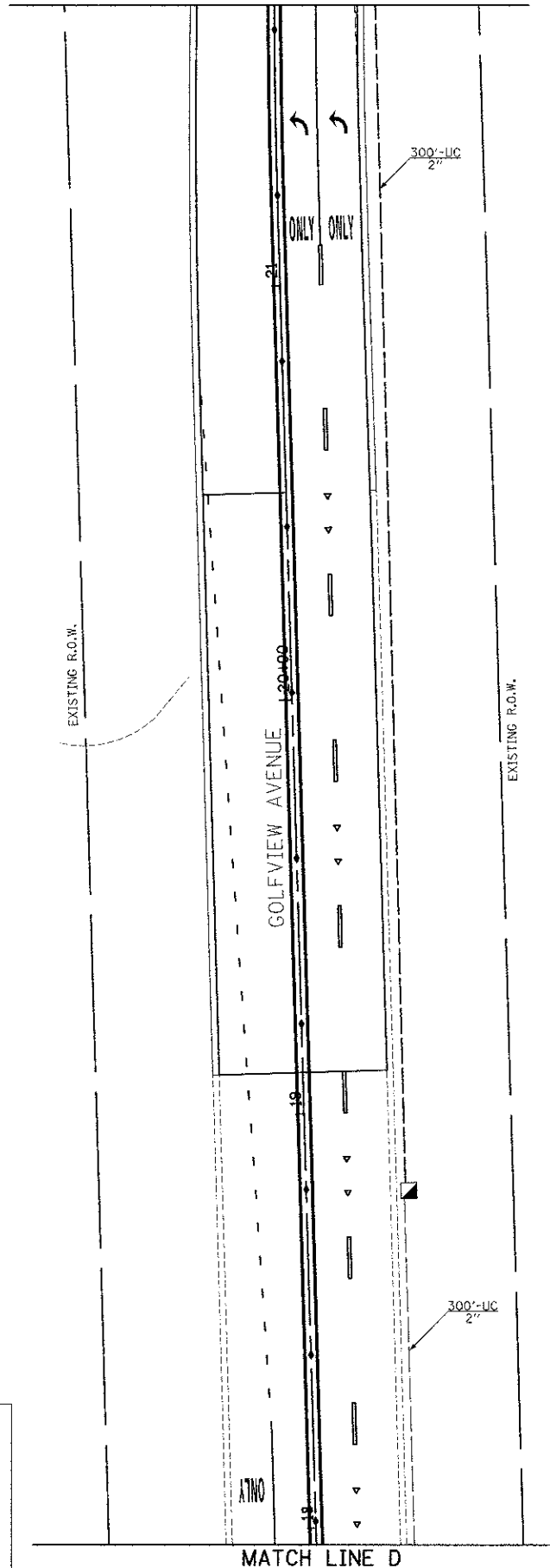
**NOTE:**  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

	USFR NAME = mfb PLOT SCALE = 26,0000 / 1" = 100' PLOI DATE = 12/12/2012	DESIGNED - BRD DRAWN - MFB CHECKED - JJE DATE - 10/22/2012	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS                  DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION                  GOLFVIEW AVENUE AT IL ROUTE 171 (1ST AVENUE)</b>	F.A.U. RTE. = 3784 SECTION = 12-F3000-23-PK COUNTY = COOK TOTAL SHEET SHEETS = 133 / 80 CONTRACT NO. = 63764 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
	SCALE: 1" = 20'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.					
	MATCH LINE C SEE SHEET NO. 2 OF 2					

MATCH LINE C SEE SHEET NO. 1 OF 2

MATCH LINE D

MATCH LINE E



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.



USER NAME = mfo	DESIGNED - BRD	REVISED -
	DRAWN - MFB	REVISED -
PLOT SCALE = 20,0000 / in.	CHECKED - JJE	REVISED -
PLOT DATE = 12/12/2012	DATE - 10/22/2012	REVISED -

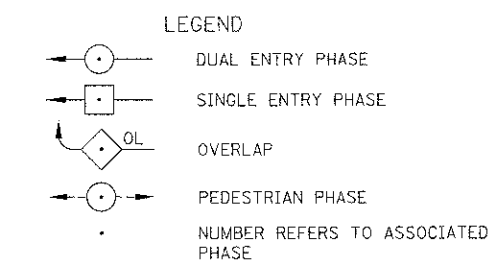
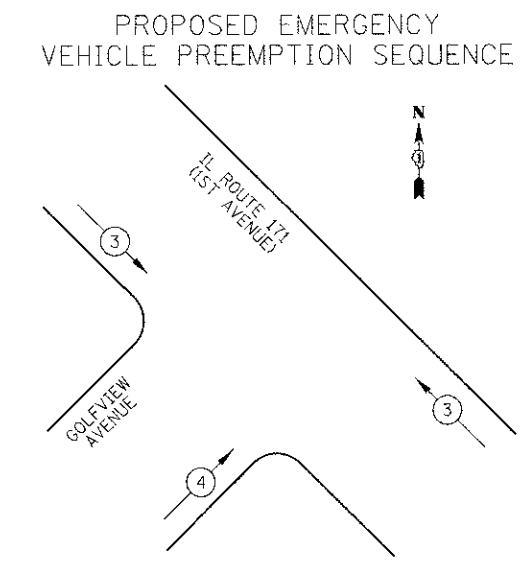
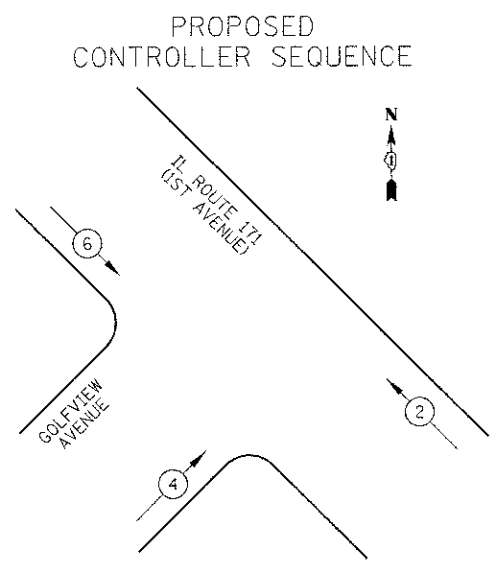
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 81
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63764



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

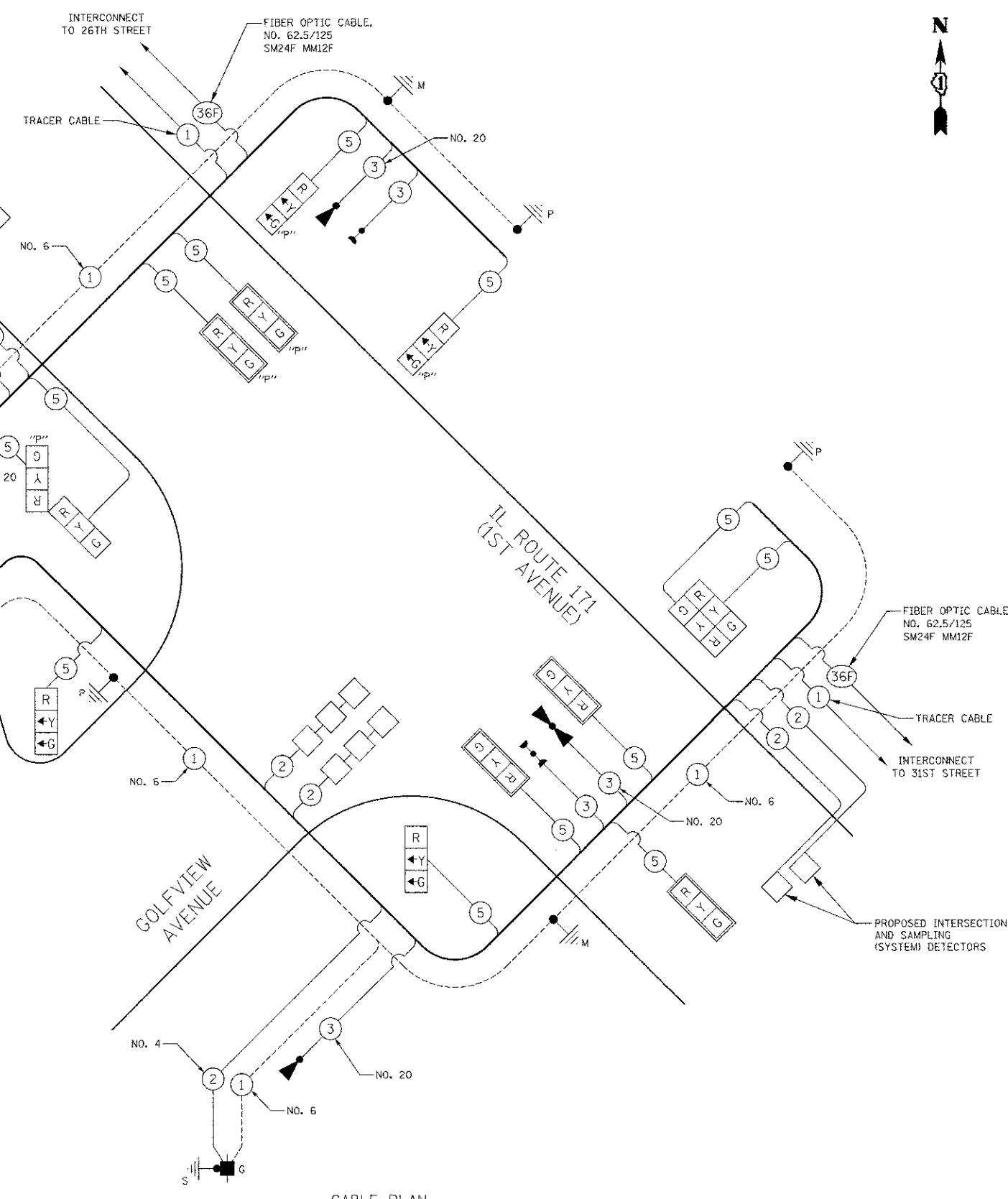
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NUMBER OF CABLES AS PER PLAN

PHASE DESIGNATION DIAGRAM

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 1	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
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
*100% COST TO VILLAGE OF BROOKFIELD FIRE DEPARTMENT		

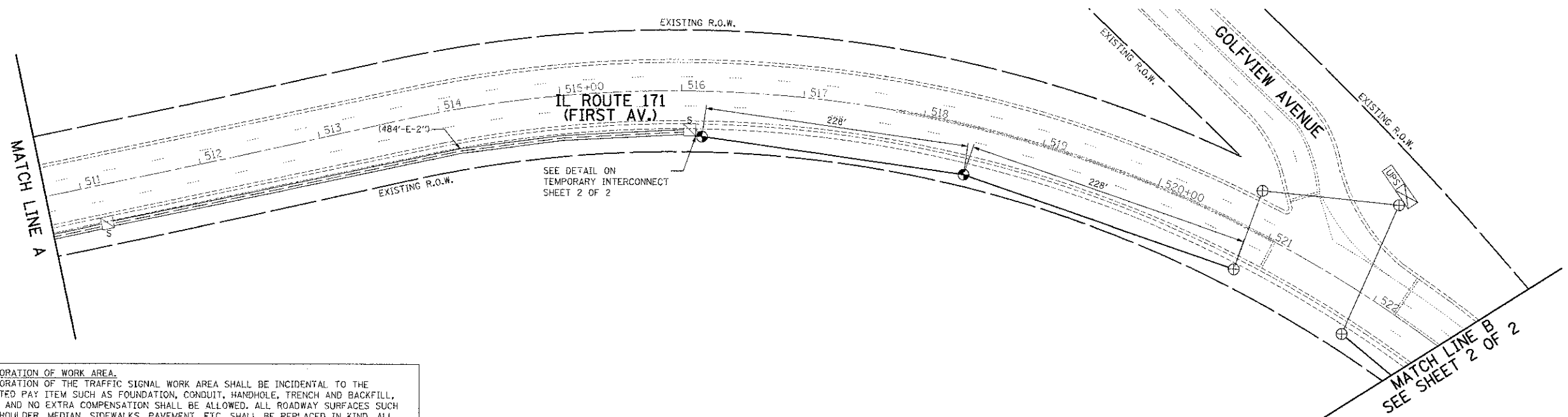
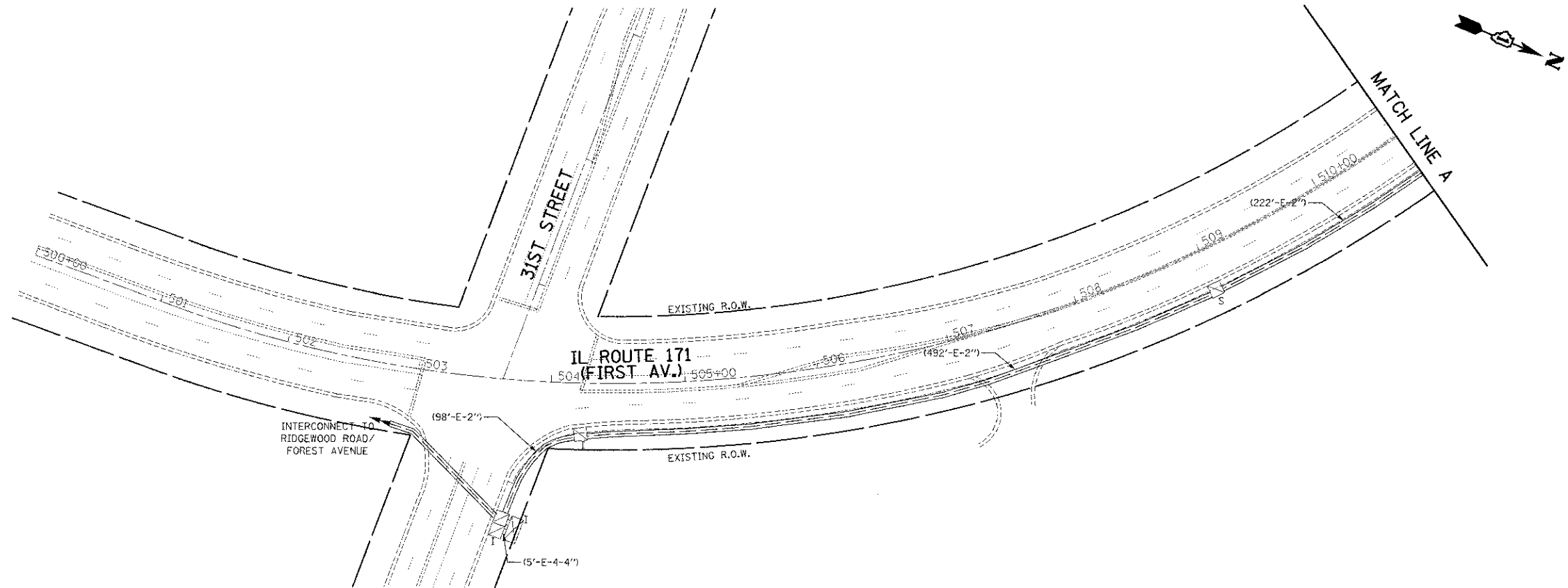


CABLE PLAN  
NOT TO SCALE

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
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
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



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.



USER NAME = mfb	DESIGNED - BRD	REVISED -
PLOT SCALE = 50.0000' / 1" IN.	DRAWN - MFB	REVISED -
PLOT DATE = 12/12/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

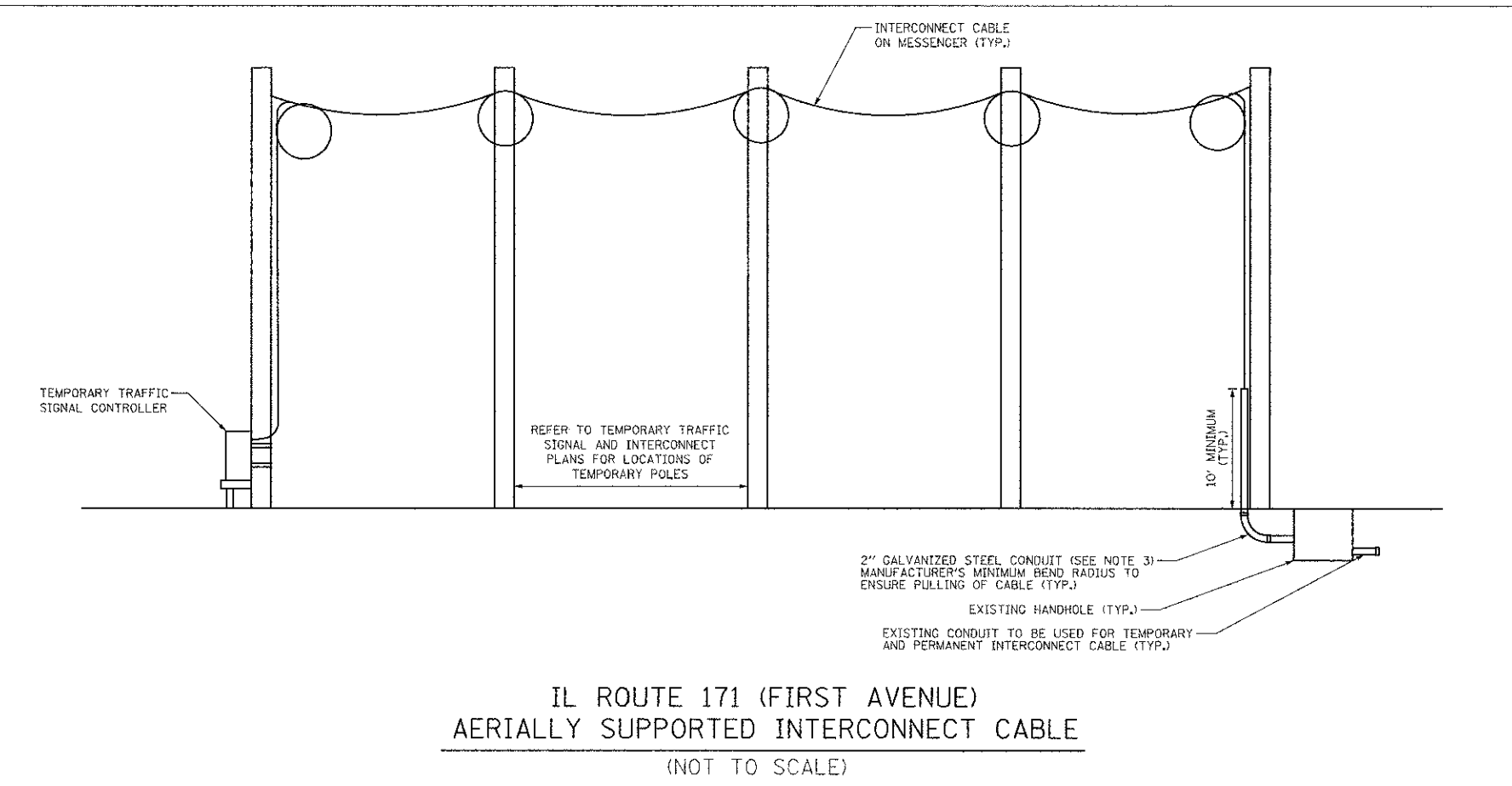
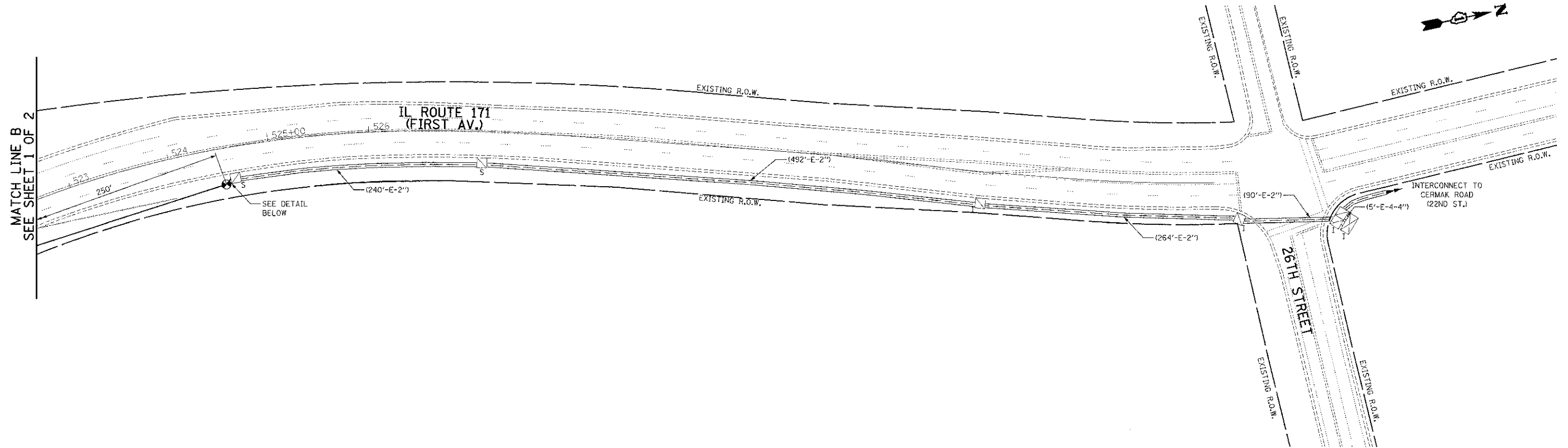
TEMPORARY INTERCONNECT PLAN  
 IL ROUTE 171 (1ST AVENUE)  
 31ST STREET TO 26TH STREET

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	133	83
CONTRACT NO. 63764				

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





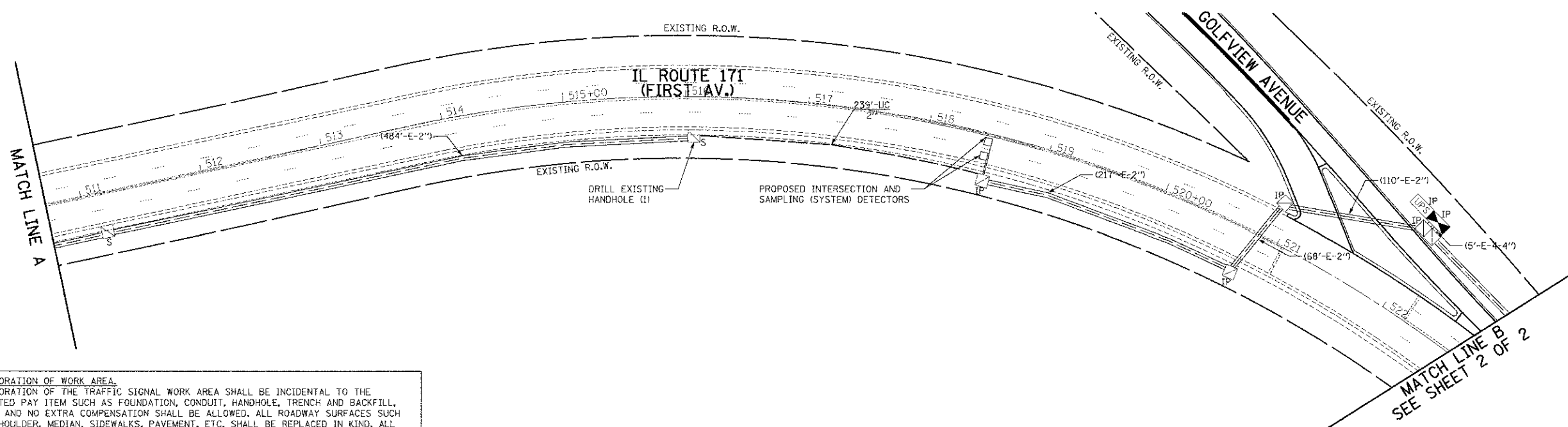
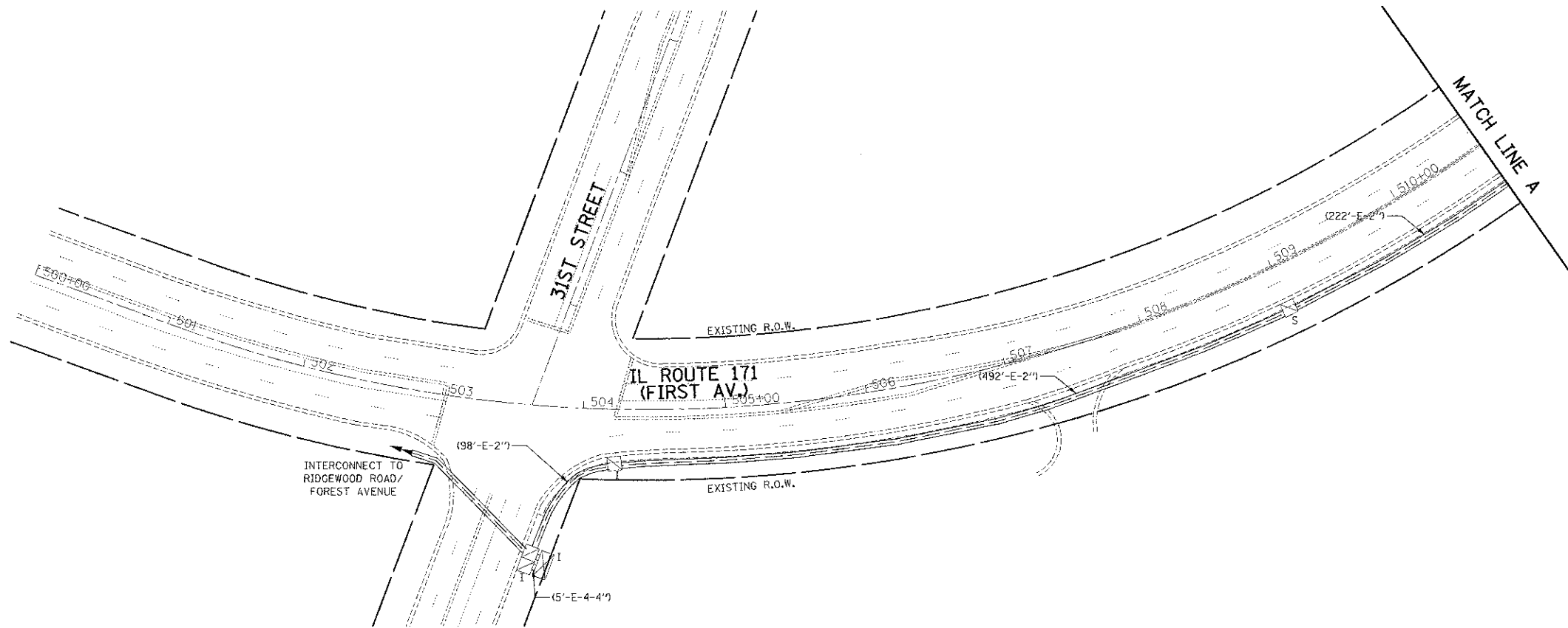
**IL ROUTE 171 (FIRST AVENUE)  
AERIALLY SUPPORTED INTERCONNECT CABLE  
(NOT TO SCALE)**

**TEMPORARY INTERCONNECT NOTES**

- 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.
- AFTER THE PROPOSED INTERCONNECT IS TURNED ON AND OPERATING TO THE SATISFACTION OF THE ENGINEER, THE TEMPORARY INTERCONNECT CABLE SHALL BE REMOVED.
- 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.
- 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.
- 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.

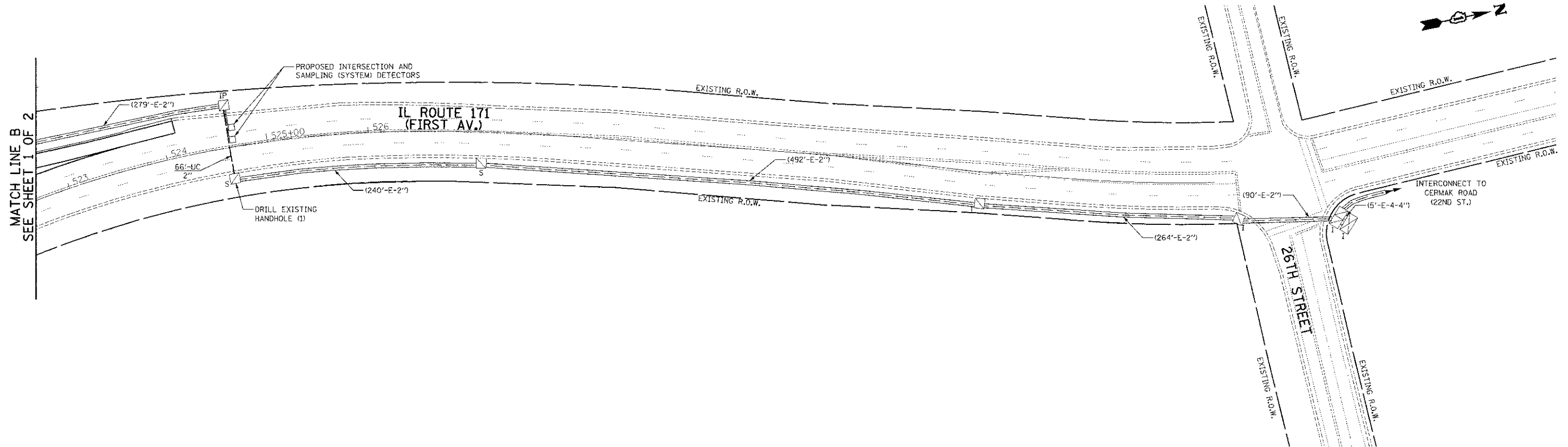
**RESTORATION OF WORK AREA.**  
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. 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.



**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 SEEDDED 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.

	USER NAME = rfb	DESIGNED - BRD	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN          IL ROUTE 171 (1ST AVENUE)          31ST STREET TO 26TH STREET</b>		F.A.J. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 85	
	PLOT SCALE = 1/8" = 1' IN.	CHECKED - JJE	REVISED -		SCALE: 1" = 50'	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 12/12/2012	DATE - 10/22/2012	REVISED -		CONTRACT NO. 63764							



MATCH LINE B  
SEE SHEET 1 OF 2

**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.



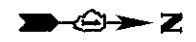
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PLOT SCALE = 50.0000' / 1"	DRAWN - MFB	REVISED -
PLOT DATE = 12/12/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

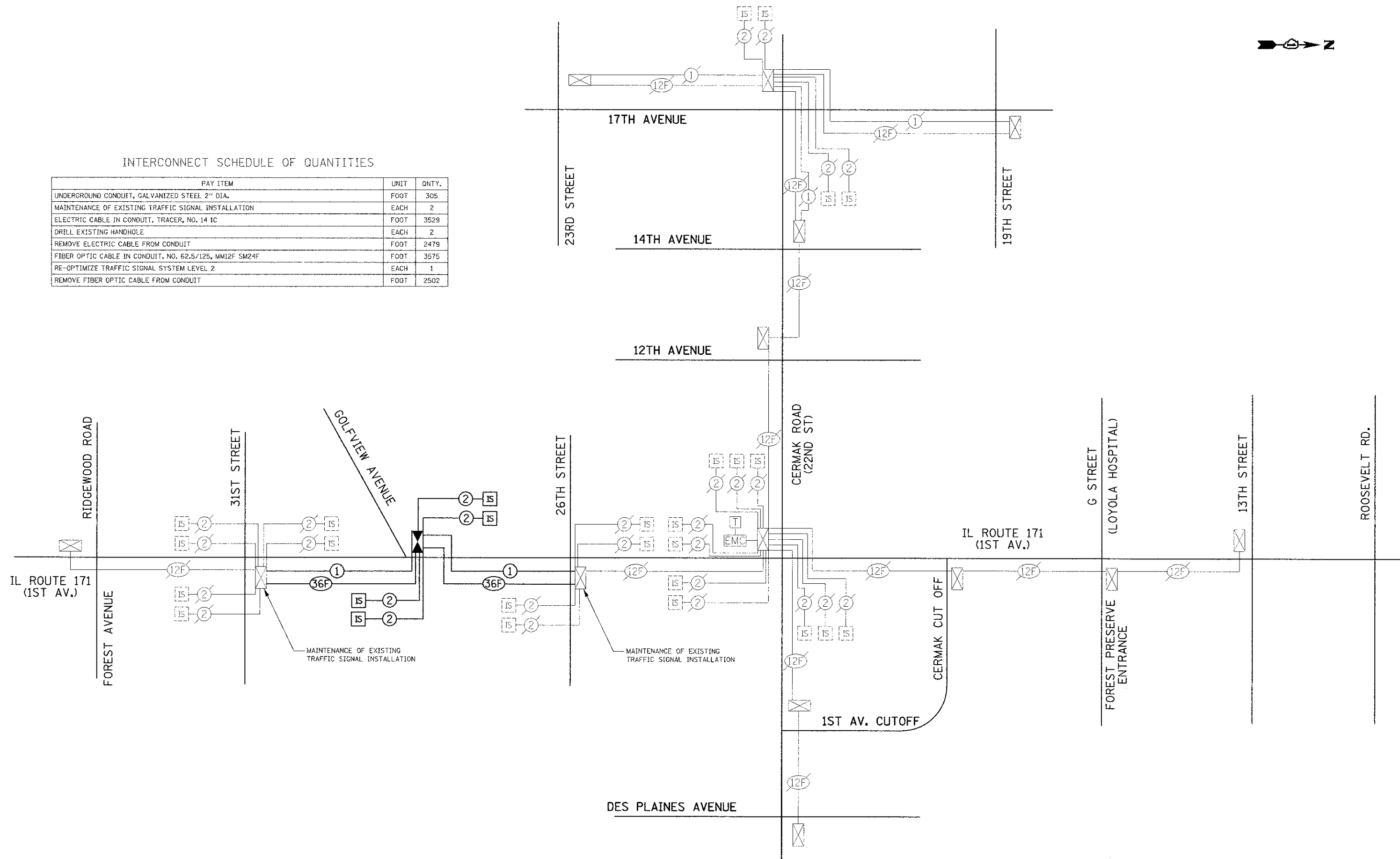
SCALE: 1" = 50'    SHEET NO. 2 OF 2 SHEETS    STA.    TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	86
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT			CONTRACT NO. 63764	



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



USER NAME = mfb	DESIGNED - BRD	REVISED -
PLOT SCALE = 50.0000 1/1 in.	DRAWN - MFB	REVISED -
PLOT DATE = 12/12/2012	CHECKED - JJE	REVISED -
	DATE - 10/22/2012	REVISED -

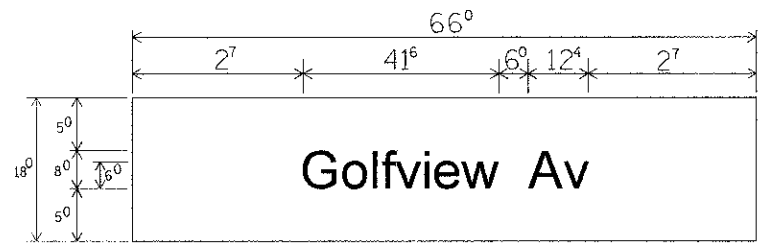
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

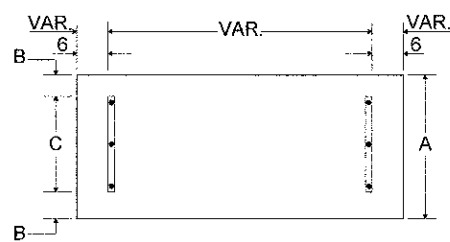
NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PX	COOK	133	87
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63764	

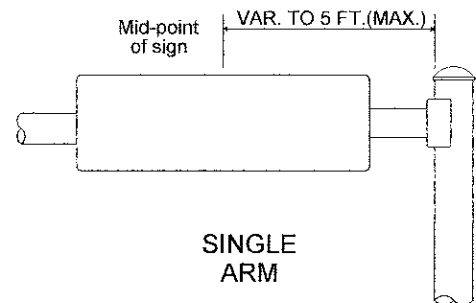
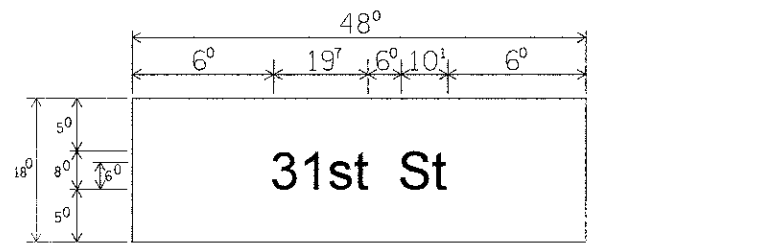
PANEL SIGN DESIGN TYPE 1



SUPPORTING CHANNELS



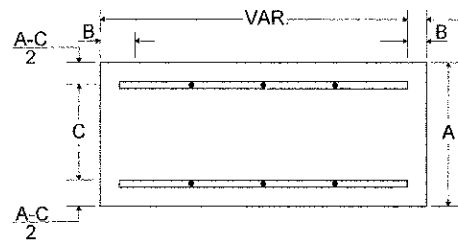
A	B	C
18"	2"	14"



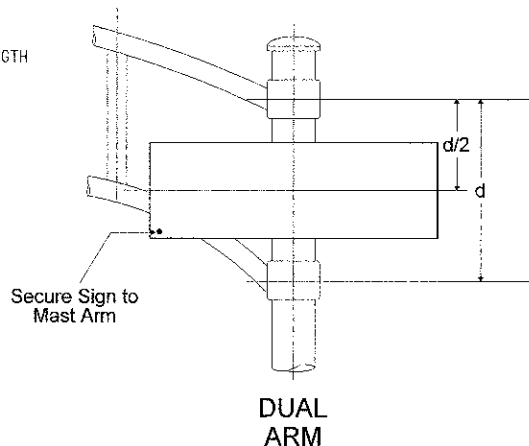
SINGLE ARM

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

SUPPORTING CHANNELS



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



DUAL ARM

**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 8877001, 877002, 877006, 877011, 877012, AS APPLICABLE. PLUS TWO (2) SIGN PANELS 2'-6" X 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE 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/BACKET OF THE ABOVE PRODUCT.

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

SERIES	SECOND LETTER															
	a c c d e		b h i k		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

EXAMPLE, 2<sup>3</sup> DENOTES 3/8"

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

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

NUMBER TO NUMBER

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

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>

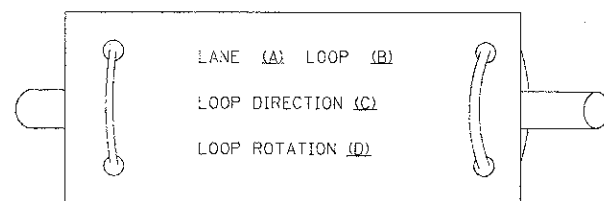
LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			SERIES	
	C	D	C	D	C	D	C	D		C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>				
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3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

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
3	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
4	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	5 <sup>7</sup>
5	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
6	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>

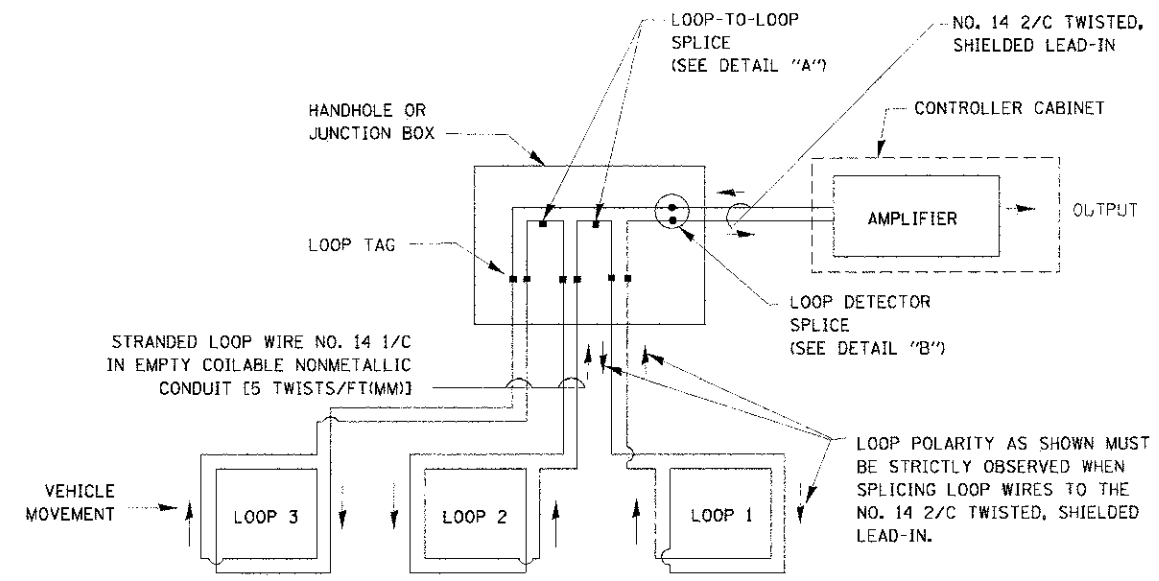
**LOOP DETECTOR NOTES**

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**

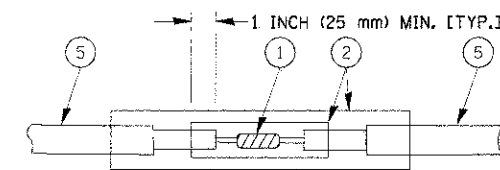


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

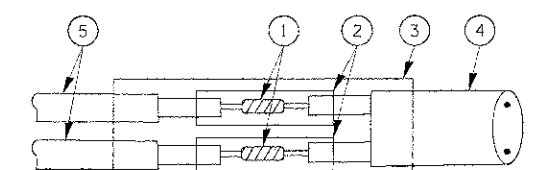


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

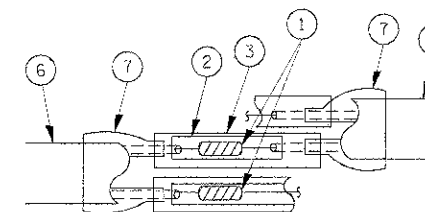


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



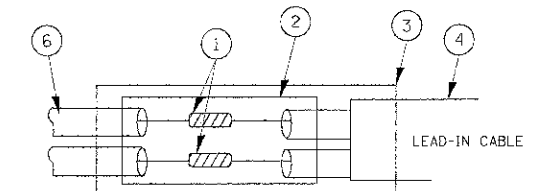
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

**PREFORMED LOOP**



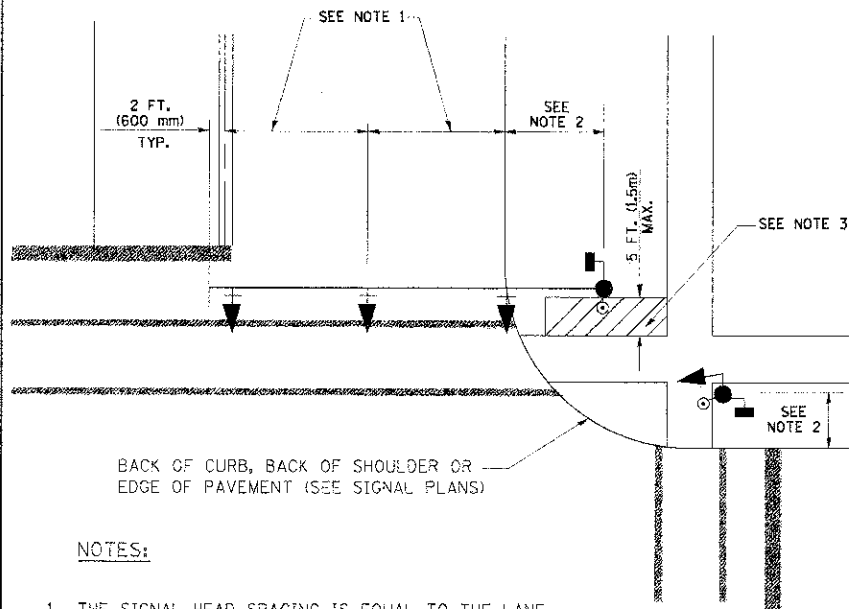
**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

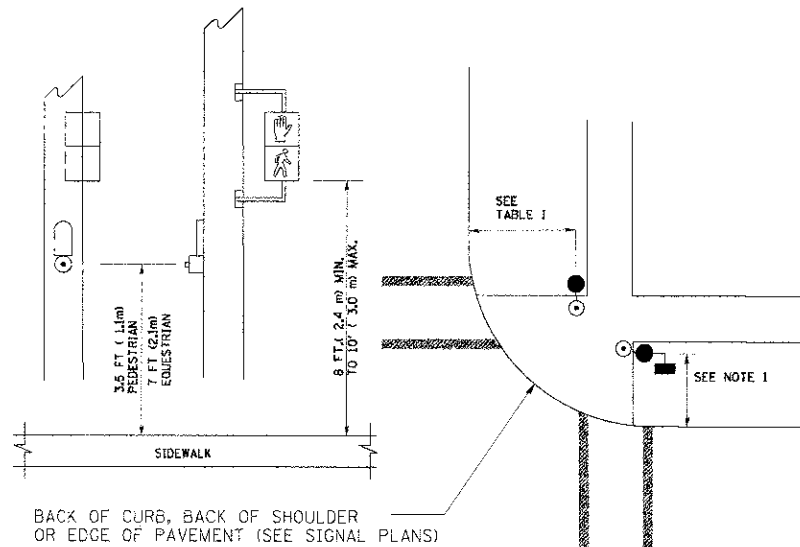
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**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."

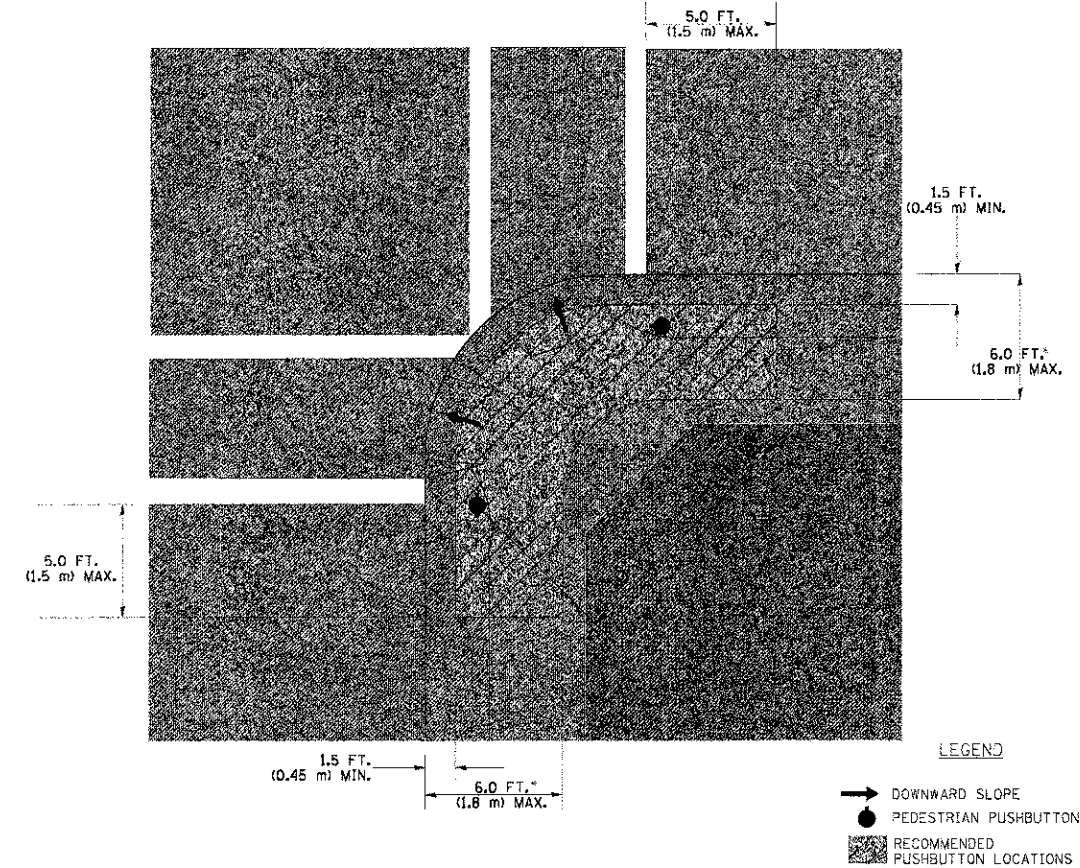
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**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**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- 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:**

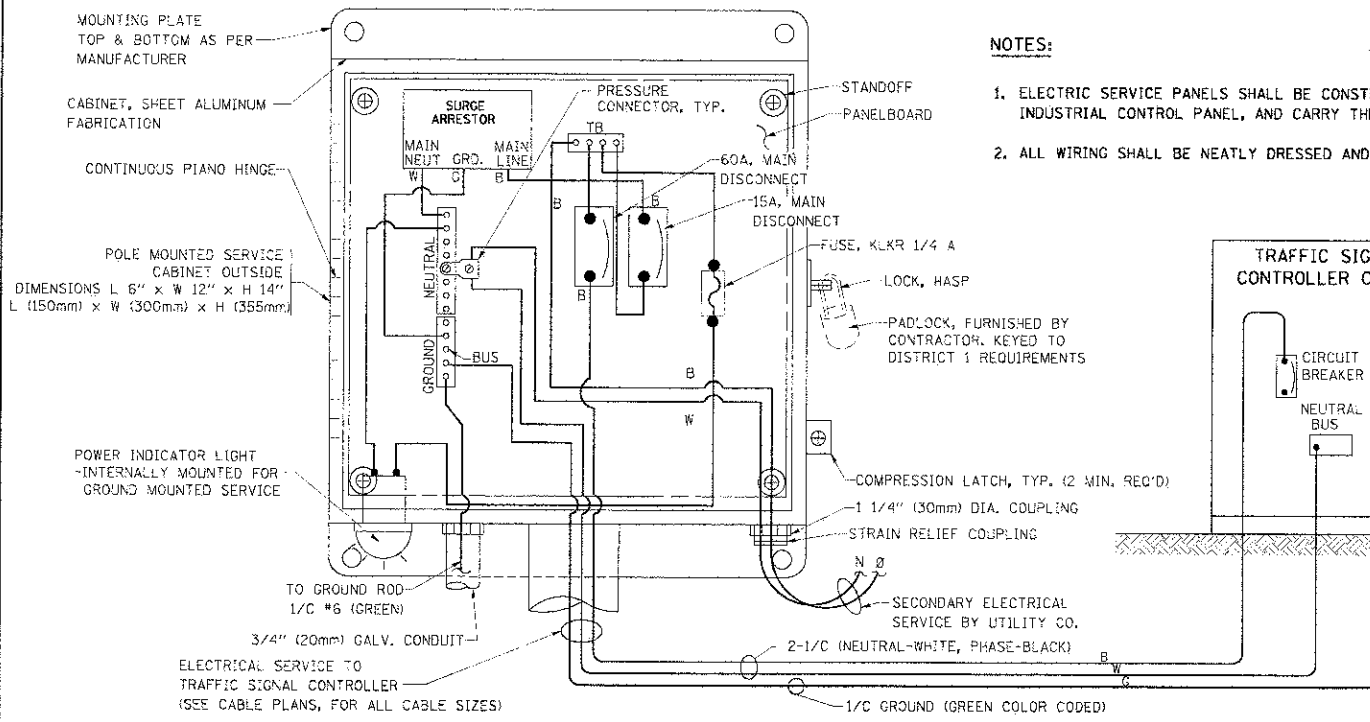
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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**

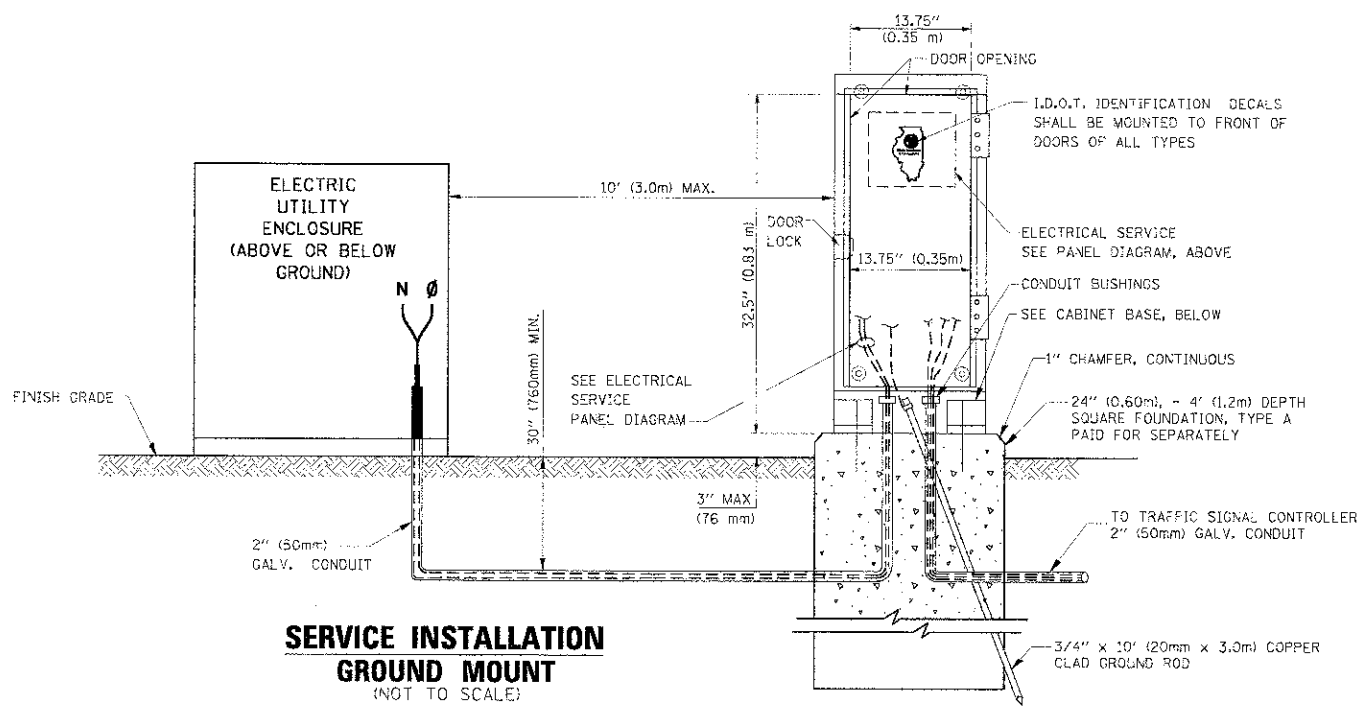
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

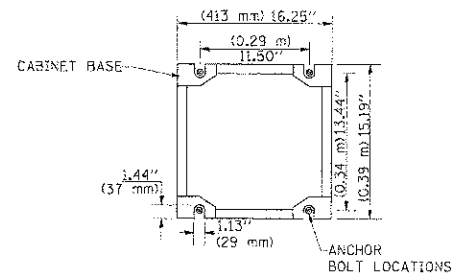


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

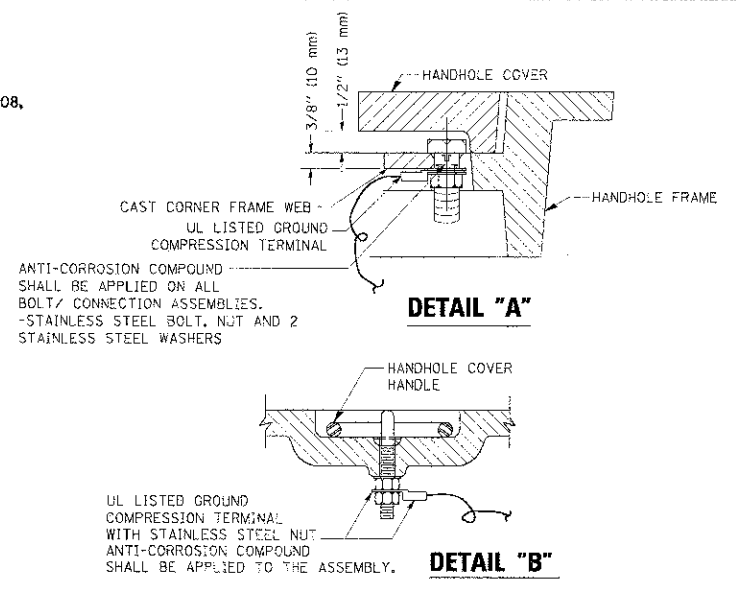


**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

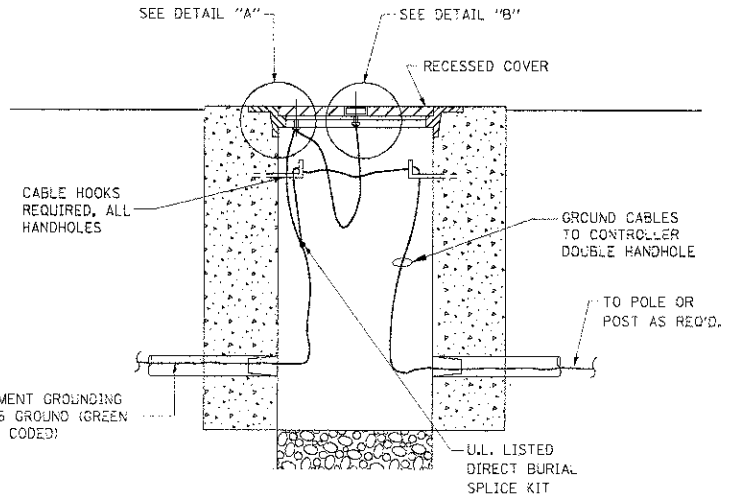
**CABINET – BASE BOLT PATTERN**  
 (NOT TO SCALE)



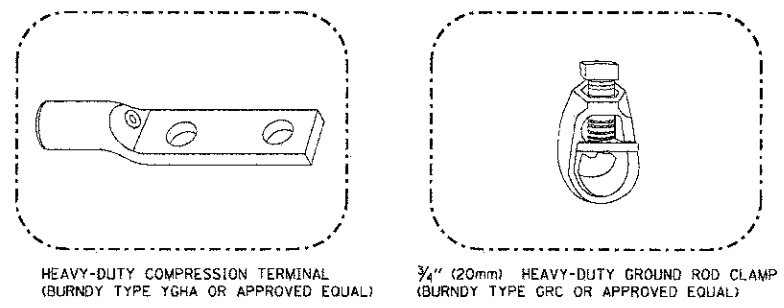
- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.I. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.I. LABEL.
  2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



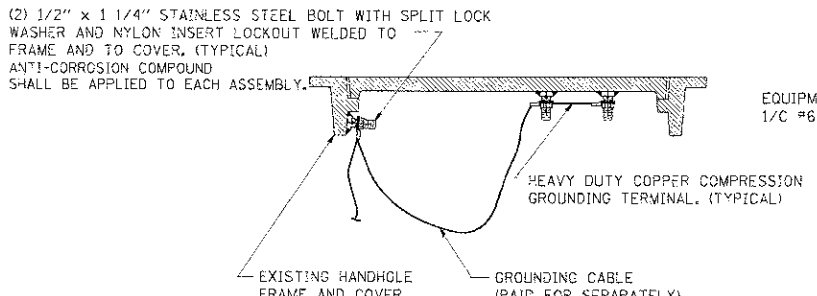
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED 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.



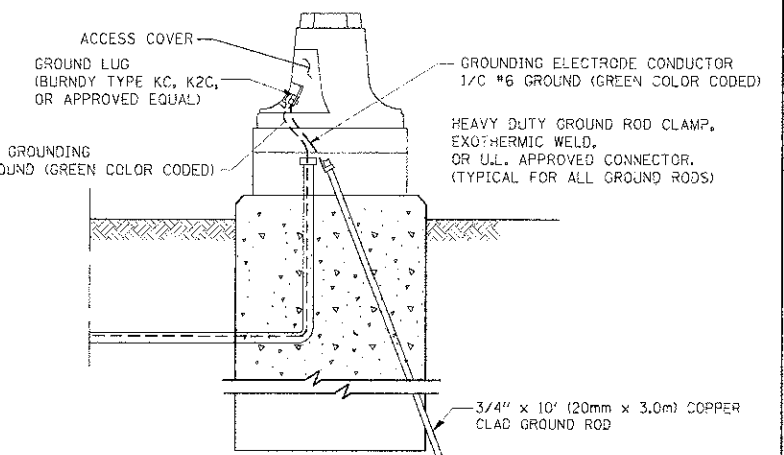
**HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
 (NOT TO SCALE)



- 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.

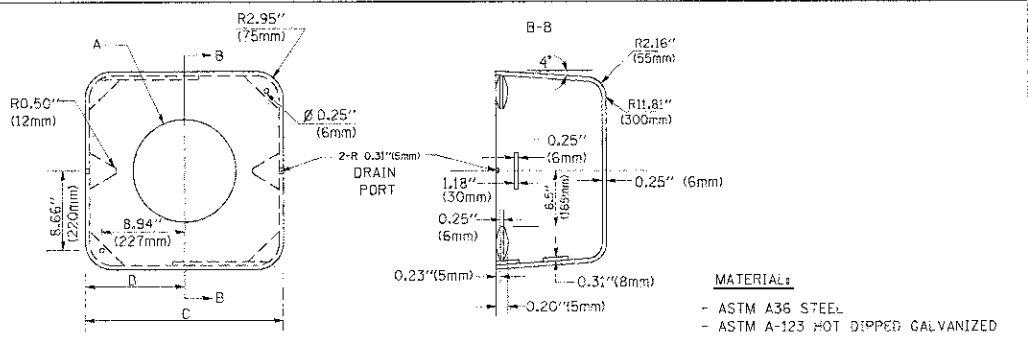
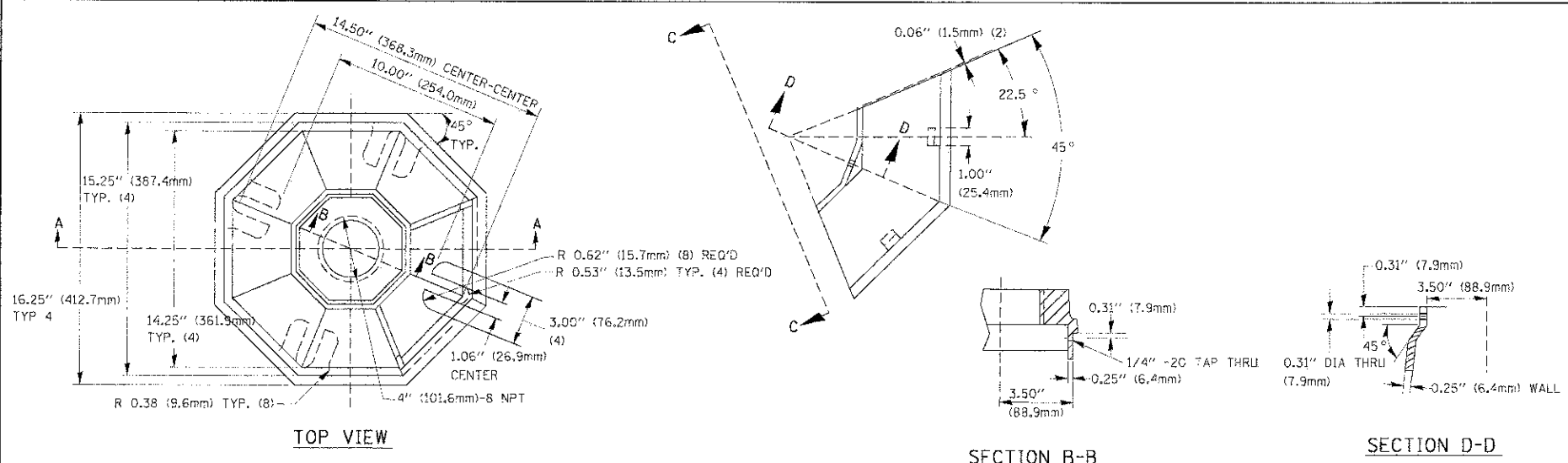


**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL**  
 (NOT TO SCALE)



**MAST ARM POLE / POST-GROUNDING DETAIL**  
 (NOT TO SCALE)

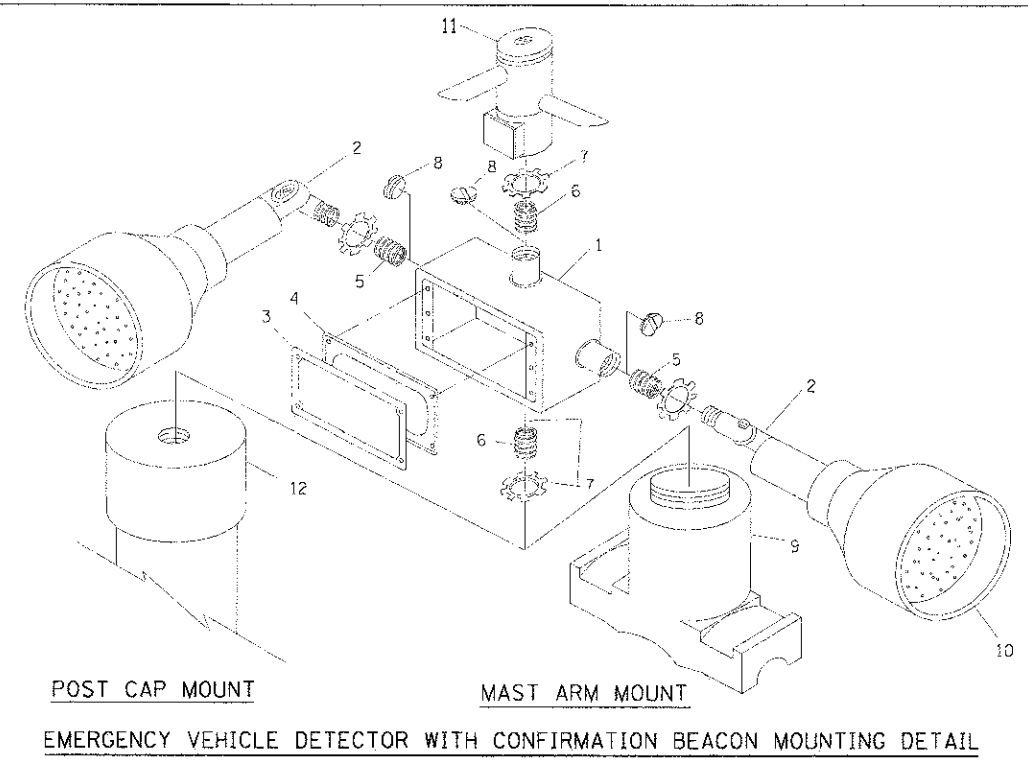
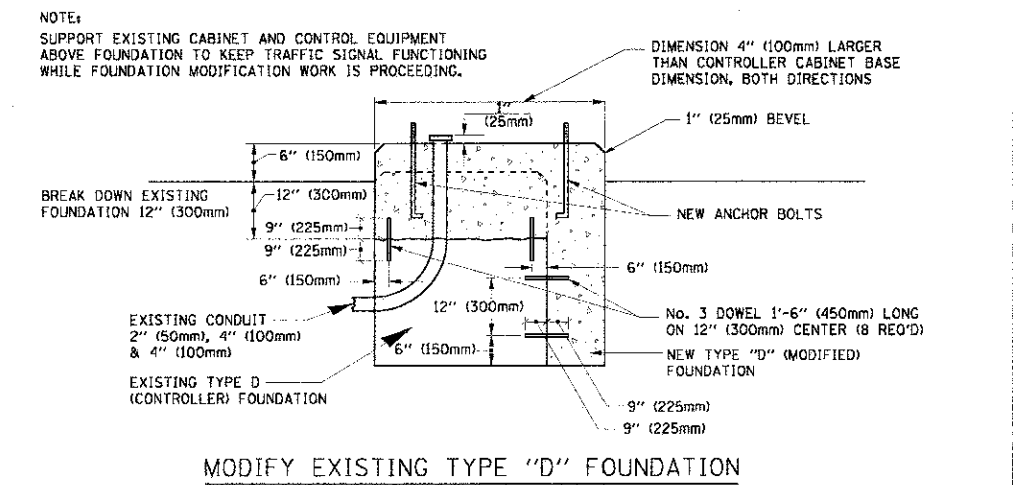
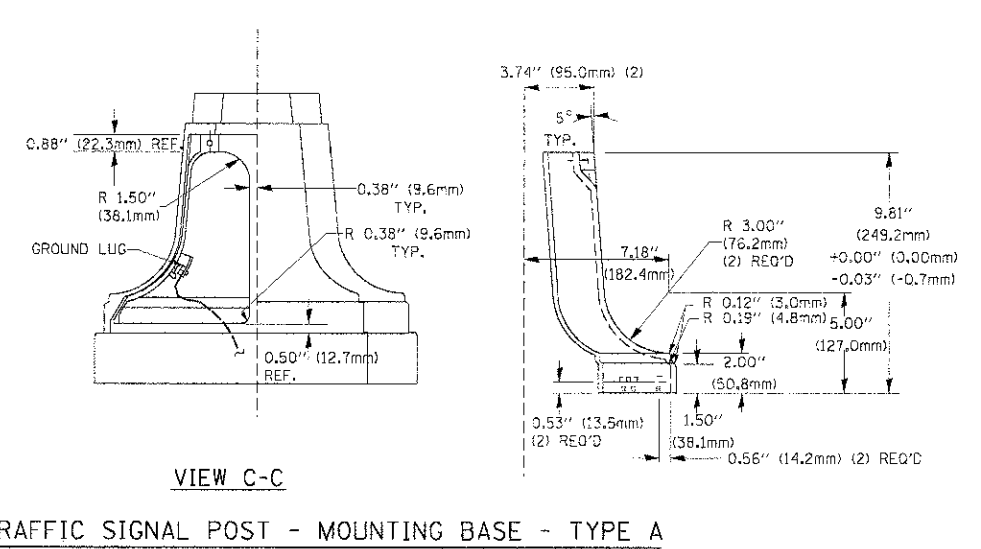
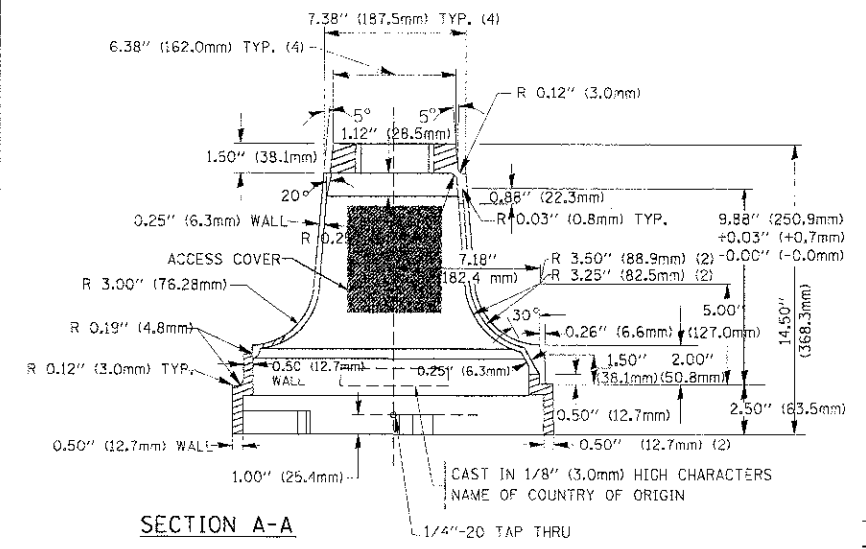




A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\"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

**NOTES:**

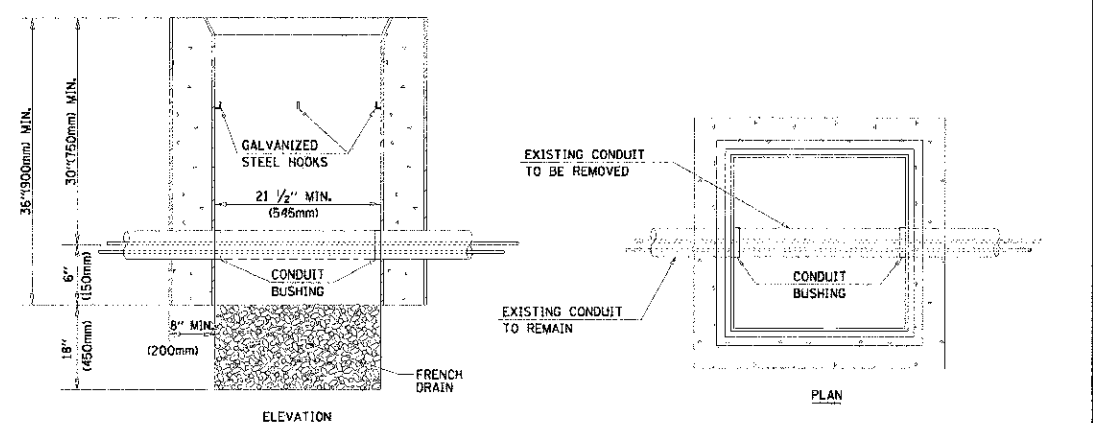
1. THE SHROUD "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000364 CU. M.)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (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.]

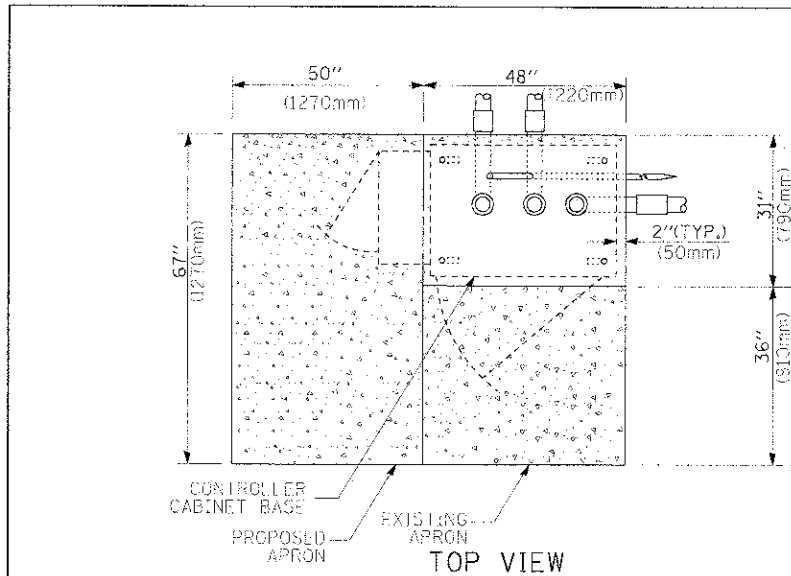
**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- C2/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 3/4\" (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.

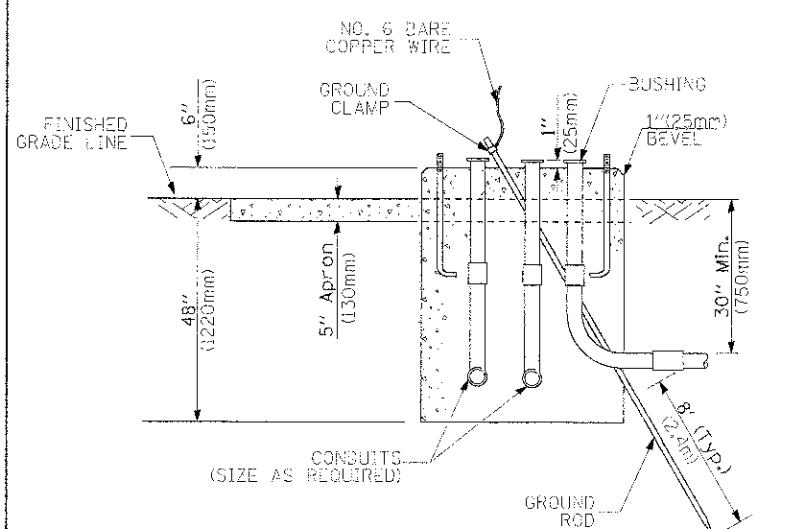


**NOTES:**

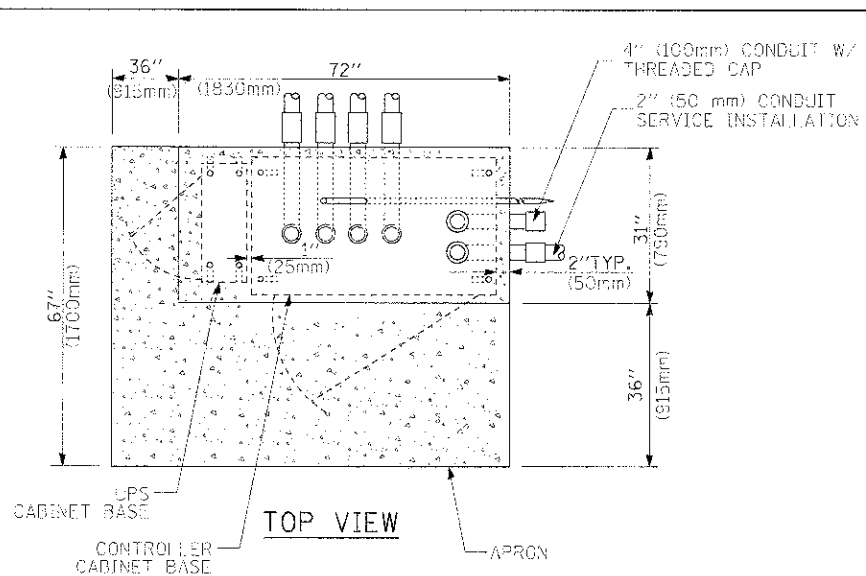
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



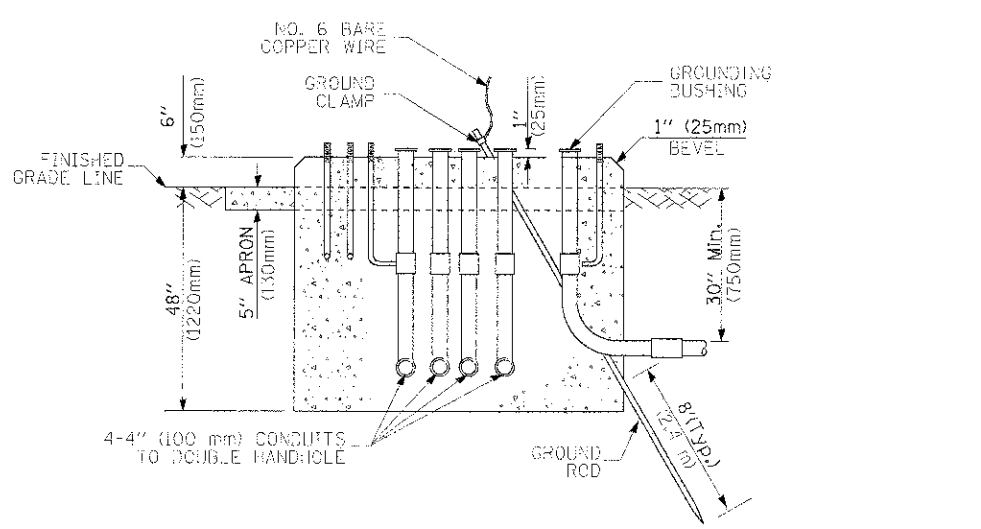
TOP VIEW



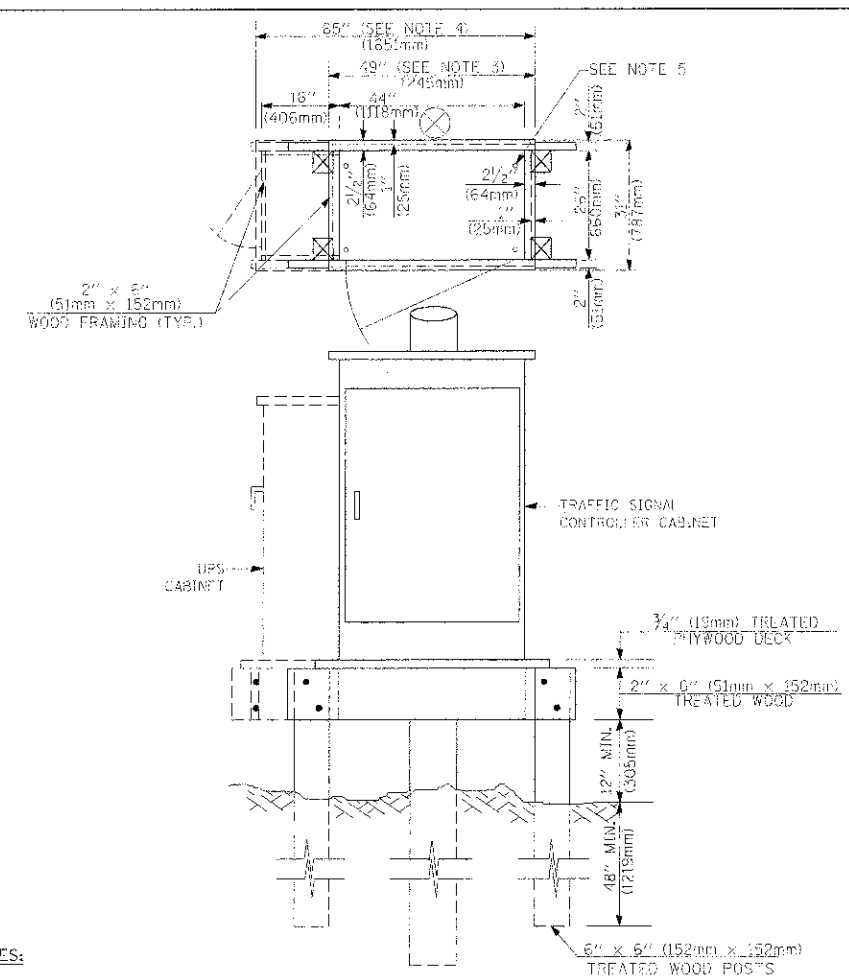
TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET



TOP VIEW



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	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)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal 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

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																	
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																				
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																				
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																				
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																				
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																				
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																				
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)																				
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																				
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																				
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																				
SIGNAL POST				REMOVE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED																				
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR																				
GUY WIRE				ABANDON ITEM				SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				EXISTING INTERSECTION LOOP DETECTOR																				
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR																				
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR																				
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">EXISTING</th> <th style="width: 25%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>				EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
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CROSSBUCK																												
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																								
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																								
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																								
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																								
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																								
MICROWAVE VEHICLE SENSOR																												
VIDEO DETECTION CAMERA																												
VIDEO DETECTION ZONE																												
PAN, TILT, ZOOM CAMERA																												
WIRELESS DETECTOR SENSOR																												
WIRELESS ACCESS POINT																												

DEVICES	LIGHTING	FIRE ALARM	ABBREVIATIONS	POWER
<p>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</p> <p>DIMMER SWITCH (wattage rating on plan)</p> <p>LIGHTING CONTACT IN ENCLOSURE</p> <p>LIGHTING RELAY CABINET</p> <p>DOORBELL</p> <p>PHOTOCELL</p> <p>TIME SWITCH</p> <p>THERMOSTAT</p> <p>LOCKOUT SWITCH</p> <p>PUSHBUTTON STATION WITH ONE BUTTON</p> <p>PUSHBUTTON STATION WITH TWO BUTTONS</p> <p>PUSHBUTTON STATION WITH TWO BUTTONS AND PILOT LIGHT</p> <p>PUSHBUTTON STATION WITH THREE BUTTONS</p> <p>KEY-RESET CONTROL STATION</p> <p>STOP-LOCK PUSHBUTTON STATION</p> <p>EMERGENCY POWER OFF MUSHROOM BUTTON</p> <p>SINGLE RECEPTACLE (wall mounted)</p> <p>DUPLEX RECEPTACLE (wall mounted)</p> <p>DOUBLE DUPLEX RECEPTACLE (wall mounted)</p> <p>SINGLE RECEPTACLE (flush floor mounted)</p> <p>DUPLEX RECEPTACLE (flush floor mounted)</p> <p>DOUBLE DUPLEX RECEPTACLE (flush floor mounted)</p> <p>SINGLE RECEPTACLE (poke-thru)</p> <p>DUPLEX RECEPTACLE (poke-thru)</p> <p>DOUBLE DUPLEX RECEPTACLE (poke-thru)</p> <p>RECEPTACLE CONNECTED TO CELLULAR FLOOR SYSTEM</p> <p>SPLIT WIRED DUPLEX RECEPTACLE (two circuits)</p> <p>RECEPTACLE MOUNTED ABOVE COUNTERTOP</p> <p>CLOCK OUTLET RECEPTACLE</p> <p>CLOCK OUTLET AND CLOCK FOR INTEGRATED CLOCK SYSTEM</p> <p>ELEVATOR SELECTOR SWITCH FURNISHED BY ELEVATOR CONTRACTOR, INSTALLED BY E.C. CARBON MONOXIDE DETECTOR PER LOCAL CODE REQUIREMENTS</p>	<p>PHOTOCELL FOR CONTROL OF LIGHTING DUSK TO DAWN.</p> <p>EXIT/DIRECTIONAL SIGN</p> <p>MANUAL/AUTOMATIC WALL MOUNTED MULTI TECHNOLOGY OCCUPANCY SENSOR, LEVITON-OSSMT-GDW VERIFY VOLTAGE MULTI TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR LEVITON-OSCI0-MDW</p> <p>OCCUPANCY POWER PACK LEVITON-OSP20-RNH</p> <p>MASTER CONTROL STATION W/5 BUTTONS LEVITON D8000</p> <p>WALL MOUNTED OCCUPANCY SENSOR AIM FOR MAXIMUM COVERAGE, LEVITON ODWHB-10 WITH ODP13 POWER PACK 27TV</p> <p>RACEWAY AND WIRING</p> <p>CONDUIT RUN CONCEALED IN CEILING OR WALL            ARROW IMPLIES DIRECT PATH TO DESIGNATED PANEL</p> <p>CONDUIT RUN CONCEALED IN OR BELOW FLOOR</p> <p>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</p> <p>CONDUIT STUBBED UP</p> <p>CONDUIT STUBBED DOWN</p> <p>FLEXIBLE CONDUIT JUNCTION BOX (exposed or in ceiling)</p> <p>JUNCTION BOX (wall or ceiling mounted)            "FB" INDICATES FLOOR BOX WITH BLANK COVER</p> <p>EQUIPMENT TAG</p> <p>CONDUIT SEAL</p> <p>MULTI-OUTLET ASSEMBLY</p> <p>WIREWAY</p> <p>CABLE TRAY</p> <p>BUSWAY (BUSDUJCT)</p> <p>CABLE TAP BOX</p> <p>UNDERGROUND DUCTBANK</p> <p>UNDERGROUND DIRECT BURIAL CABLE</p> <p>UNDERFLOOR DUCT SYSTEM:            — INDICATES POWER DUCT            — INDICATED TELEPHONE DUCT            — INDICATES SYSTEM DUCT</p> <p>VARIOUS SYMBOLS IDENTIFY LOCATION OF DIFFERENT TYPES OF OUTLETS OR CONNECTIONS TO UNDERFLOOR DUCT SYSTEM.</p> <p>MANHOLE</p> <p>HANDHOLE</p> <p>PULLBOX</p> <p>SIGNAL SYMBOLS</p> <p>BUZZER</p> <p>CHIME</p> <p>CLOSED CIRCUIT TELEVISION CAMERA</p> <p>INTERCOM (wall or ceiling mount)</p> <p>TELEPHONE TERMINAL CABINET</p> <p>AMPLIFIER</p> <p>MICROPHONE JACK</p> <p>VOLUME CONTROL</p> <p>MOTION SENSOR</p> <p>CARD READER (verify exact location) See Security and Architectural Specifications</p> <p>ELECTRIC STRIKE (verify exact location) See Security and Architectural Specifications</p> <p>KEYPAD (verify exact location) See Security and Architectural Specifications</p> <p>DOOR RELEASE</p> <p>SECURITY DOOR CONTACT</p> <p>EMERGENCY PANIC STATION</p> <p>TELEPHONE ENTRY SYSTEM</p>	<p>GENERAL ALARM DEVICE</p> <p>GENERAL ALARM DEVICE WITH VISUAL ALARM DEVICE</p> <p>PRE-SIGNAL ALARM DEVICE</p> <p>PRE-SIGNAL DEVICE WITH VISUAL ALARM DEVICE</p> <p>VOICE COMMUNICATION SPEAKER</p> <p>BEACON</p> <p>VOICE COMMUNICATION SPEAKER WITH VISUAL ALARM DEVICE</p> <p>VOICE COMMUNICATION TELEPHONE</p> <p>VISUAL ALARM DEVICE (PER FIRE PREVENTION)</p> <p>REMOTE ANNUNCIATOR LAMP FOR SELECTED DEVICE</p> <p>HEAT DETECTOR</p> <p>135° FIXED TEMPERATURE/RATE OF RISE</p> <p>SYSTEM SMOKE DETECTOR</p> <p>SYSTEM SMOKE DETECTOR WITH INTEGRAL HORN</p> <p>SINGLE STATION SMOKE DETECTOR WITH BATTERY BACKUP</p> <p>HVAC DUCT SMOKE DETECTOR</p> <p>BEAM SYSTEM SMOKE DETECTOR (UL-258) TRANSMITTER</p> <p>BEAM SYSTEM SMOKE DETECTOR (UL-258) RECEIVER</p> <p>MANUAL PULL STATION</p> <p>SPRINKLER WATERFLOW INDICATOR</p> <p>SPRINKLER ALARM VALVE ATTACHMENT</p> <p>SPRINKLER PRESSURE SWITCH</p> <p>HALON EXTINGUISHING SYSTEM</p> <p>DRY CHEMICAL EXTINGUISHING SYSTEM</p> <p>WET CHEMICAL EXTINGUISHING SYSTEM</p> <p>GASEOUS EXTINGUISHING SYSTEM</p> <p>MAGNETIC/ELECTRONIC DOOR HOLD OPEN DEVICE</p> <p>ELECTRIC DOOR LOCK</p> <p>SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH</p> <p>CITY FIRE ALARM BOX TIE AND DISCONNECT PANEL</p> <p>CITY FIRE ALARM BOX</p> <p>CENTRAL STATION TIE AND DISCONNECT WITH LAMP</p> <p>TROUBLE BELL WITH TEST AND SILENCE SWITCH</p> <p>FIRE ALARM ANNUNCIATOR PANEL</p> <p>FIRE ALARM CONTROL PANEL</p> <p>VOICE COMMUNICATION CONTROL PANEL</p> <p>ELEVATOR STATUS/CONTROL PANEL</p> <p>HVAC DUCT FIRE DAMPER CONTROL</p> <p>DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH HORN AND LIGHT.</p>	<p>1P SINGLE POLE</p> <p>2P TWO POLE</p> <p>3P THREE POLE</p> <p>A AMPERES (AMPS)</p> <p>AF AMPERE FUSE</p> <p>AS AMPERE SWITCH</p> <p>A/C AIR CONDITIONER</p> <p>AC ALTERNATING CURRENT</p> <p>ACL ACROSS THE LINE</p> <p>AFF ABOVE FLOOR FINISH</p> <p>AIC AMPERES INTERRUPTING CAPACITY</p> <p>AL ALUMINUM</p> <p>AMP AMPERES</p> <p>ANN ANNUNCIATOR</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>BAL BALLAST</p> <p>BGB BUILDING GROUND BOX</p> <p>BOC BOTTOM OF CONDUIT</p> <p>BR BRANCH</p> <p>BRKR BREAKER</p> <p>C CONDUIT</p> <p>C.U.I. COEFFICIENT OF UTILIZATION</p> <p>CAB CABINET</p> <p>CATV CABLE TELEVISION</p> <p>CB CIRCUIT BREAKER</p> <p>CC COMMUNICATIONS CONTRACTOR</p> <p>CCT CIRCUIT</p> <p>CCTV CLOSED CIRCUIT TELEVISION</p> <p>CLO CLOSET</p> <p>Co. COMPANY</p> <p>COAX COAXIAL</p> <p>ComEd COMMONWEALTH EDISON COMPANY</p> <p>COMP COMPRESSOR</p> <p>CONN CONNECTED</p> <p>CONV CONVENIENCE</p> <p>CP CATHODIC PROTECTION</p> <p>CT CURRENT TRANSFORMER</p> <p>CU COPPER</p> <p>CUH CABINET UNIT HEATER</p> <p>D DEDICATED</p> <p>DC DIRECT CURRENT</p> <p>DISC.SW. DISCONNECT SWITCH</p> <p>DP DPDT</p> <p>DPST DOUBLE POLE DOUBLE THROW</p> <p>DWG DRAWING</p> <p>E/P ELECTRIC/PNEUMATIC SWITCH</p> <p>E.C. ELECTRICAL CONTRACTOR</p> <p>EF EXHAUST FAN</p> <p>EHD ELECTRIC HAND DRYER</p> <p>EL ELEVATION</p> <p>ELEC (ITY) ELECTRIC (ITY)</p> <p>EM EMERGENCY</p> <p>EMT ELECTRICAL METALLIC CONDUIT</p> <p>EP EXPLOSION PROOF</p> <p>EQ EQUIPMENT</p> <p>ER EXISTING TO REMAIN</p> <p>EUH ELECTRIC UNIT HEATER</p> <p>EWC ELECTRIC WATER COOLER</p> <p>EWB ELECTRIC WATER HEATER</p> <p>EX EXISTING TO REMAIN</p> <p>F FUSE or FUSED</p> <p>FA FIRE ALARM</p> <p>FB FLOOR BOX</p> <p>FC FAULT CURRENT</p> <p>FC FOOT CANDLE</p> <p>FDC FIRE DEPARTMENT CONNECTION</p> <p>FLUOR FLUORESCENT</p> <p>FLR FLOOR</p> <p>FP FAN POWERED BOX</p> <p>FS FUSED SWITCH</p> <p>GEN GENERATOR</p> <p>GF1 GROUND FAULT INTERRUPT</p> <p>GHW GALVANIZED HEAVY WALL STEEL CONDUIT</p> <p>GP GENERAL PURPOSE</p> <p>GRD GROUND</p> <p>GRS GALVANIZED RIGID STEEL CONDUIT</p> <p>HID HIGH INTENSITY DISCHARGE</p> <p>HP HORSEPOWER</p> <p>HPFF HIGH POINT OF FINISHED FLOOR</p> <p>HPS HIGH PRESSURE SODIUM</p> <p>HV HIGH VOLTAGE</p> <p>Hz HERTZ (cycles per second)</p> <p>I CURRENT</p> <p>IC INTERRUPTING CAPACITY</p> <p>IG ISOLATED GROUND</p> <p>IMC INTERMEDIATE METALLIC CONDUIT</p> <p>INC INCANDESCENT</p> <p>JB JUNCTION BOX</p> <p>K (for switches) KEY SWITCH</p> <p>KO KNOCK-OUT</p> <p>KVA KILOVOLT-AMPERES</p> <p>KW KILOWATT</p> <p>KWH KILOWATT-HOURS</p> <p>LA LIGHTNING ARRESTOR</p> <p>LC LEAD COVERED</p> <p>LS LOUD SPEAKER</p> <p>LTG LIGHTING</p> <p>LV LOW VOLTAGE</p> <p>M METER</p> <p>MC (for switches) MOMENTARY CONTACT</p> <p>MCB MAIN CIRCUIT BREAKER</p> <p>MCC MOTOR CONTROL CENTER</p> <p>MCM THOUSAND CIRCULAR MIL</p> <p>MERC MERCURY VAPOR</p> <p>MFR MANUFACTURER</p> <p>MFS MAIN FUSED SWITCH</p> <p>MH MANHOLE</p> <p>MH MOUNTING HEIGHT</p> <p>MLO MAIN LUGS ONLY</p> <p>MTO MOUNTED</p> <p>MTR MOTOR</p> <p>MV MULTI-VAPOR</p> <p>N NEW</p> <p>NC NORMALLY CLOSED</p> <p>NEC NATIONAL ELECTRIC CODE</p> <p>NEUT NEUTRAL</p> <p>NF NON-FUSED</p> <p>NIC NOT IN CONTRACT</p> <p>NO NORMALLY OPENED</p> <p>NTS NOT TO SCALE</p> <p>OH OVERHEAD</p> <p>P (for switches) PILOT LIGHT</p> <p>PA PUBLIC ADDRESS</p> <p>PB PULLBOX</p> <p>PDU POWER DISTRIBUTION UNIT</p> <p>PH PHASE</p> <p>PNL PANEL</p> <p>PRI PRIMARY</p> <p>PROT PROTECTION or PROTECTIVE</p> <p>PT POTENTIAL TRANSFORMER</p> <p>PWR POWER</p> <p>R RESISTANCE</p> <p>RC REMOTE CONTROL</p> <p>REC RECTIFIER</p> <p>RECP RECEPTACLE</p> <p>RF RADIO FREQUENCY</p> <p>RH RHEOSTAT</p> <p>RT RAIN-TIGHT</p> <p>RW REWIRE</p> <p>S SWITCH</p> <p>S/T SHUNT-TRIP</p> <p>SEC SECONDARY</p> <p>SC SEPARATE CIRCUIT</p> <p>SIG SIGNAL</p> <p>SPDT SINGLE POLE DOUBLE THROW</p> <p>SPEC SPECIFICATION</p> <p>SPKR SPEAKER</p> <p>SPST SINGLE POLE SINGLE THROW</p> <p>SS STAINLESS STEEL</p> <p>STA STATION</p> <p>SWBD SWITCHBOARD</p> <p>SWGR SWITCHGEAR</p> <p>SYM SYMMETRICAL</p> <p>SYS SYSTEM</p> <p>T (for switches) THERMAL OVERLOAD</p> <p>T/D TELEPHONE/DATA</p> <p>TC TERMINAL CABINET</p> <p>TEL TELEPHONE</p> <p>TEL.CL TELEPHONE CLOSET</p> <p>TERM TERMINAL</p> <p>TGL TOGGLE</p> <p>TL TWIST-LOCK</p> <p>TM TRANSFER MANHOLE or VAULT</p> <p>TOC TOP OF CONDUIT</p> <p>TR TRIP</p> <p>TRANS TRANSFER</p> <p>TTC TELEPHONE TERMINAL CABINET</p> <p>TV TELEVISION</p> <p>TYP TYPICAL</p> <p>UG UNDERGROUND</p> <p>UH UNIT HEATER</p> <p>UL UNDERWRITERS LABORATORIES</p> <p>UNG UNGROUNDED</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>UPS UNINTERRUPTABLE POWER SYSTEM</p> <p>UV UNDERVOLTAGE</p> <p>V VOLT</p> <p>VA VOLT-AMPS</p> <p>VAV VARIABLE AIR VOLUME</p> <p>VC VARNISHED CAMBRIC</p> <p>VP VAPOR-PROOF</p> <p>VS VARIABLE SPEED</p> <p>VT VAPOR-TIGHT</p> <p>W WATTS</p> <p>WH WATT-HOUR</p> <p>WP WATER-PROOF</p> <p>WT WATER-TIGHT</p> <p>X EXISTING TO BE REMOVED</p> <p>XFMR TRANSFORMER</p> <p>XP EXPLOSION PROOF</p> <p>XR EXISTING TO BE RELOCATED</p>	<p>SWITCHGEAR, SWITCHBOARD, OR MOTOR CONTROL CENTER</p> <p>DISTRIBUTION BOARD (surface mounted)</p> <p>METER (surface mounted)</p> <p>PANELBOARD (surface mounted)</p> <p>PANELBOARD (recessed mounted)</p> <p>MOTOR (rating as indicated)</p> <p>FUSED DISCONNECT SWITCH</p> <p>NON-FUSED DISCONNECT SWITCH</p> <p>COMBINATION MOTOR STARTER AND FUSED DISCONNECT</p> <p>MAGNETICALLY HELD CONTACTOR</p> <p>TRANSFORMER</p> <p>TELEPHONE/DATA DEVICES</p> <p>TELEPHONE OUTLET (wall mounted) See telephone/Data specifications.</p> <p>DATA OUTLET (wall and/or furniture mounted) See telephone/Data specifications.</p> <p>TELEPHONE/DATA COMBINATION OUTLET See telephone/Data specifications.</p> <p>TELEPHONE OUTLET (floor mounted) See telephone/Data specifications.</p> <p>DATA OUTLET (floor mounted) See telephone/Data specifications.</p> <p>TELEPHONE/DATA COMBINATION OUTLET (floor mounted) See telephone/Data specifications.</p> <p>TELEPHONE OUTLET (poke-thru) See telephone/Data specifications.</p> <p>DATA OUTLET (poke-thru) See telephone/Data specifications.</p> <p>TELEPHONE/DATA COMBINATION OUTLET (poke-thru) See telephone/Data specifications.</p> <p>PUBLIC PAY TELEPHONE</p> <p>WALL MOUNTED TELEPHONE</p> <p>HANDS FREE COMMUNICATIONS DEVICE AT AREA OF RESCUE ASSISTANCE</p>



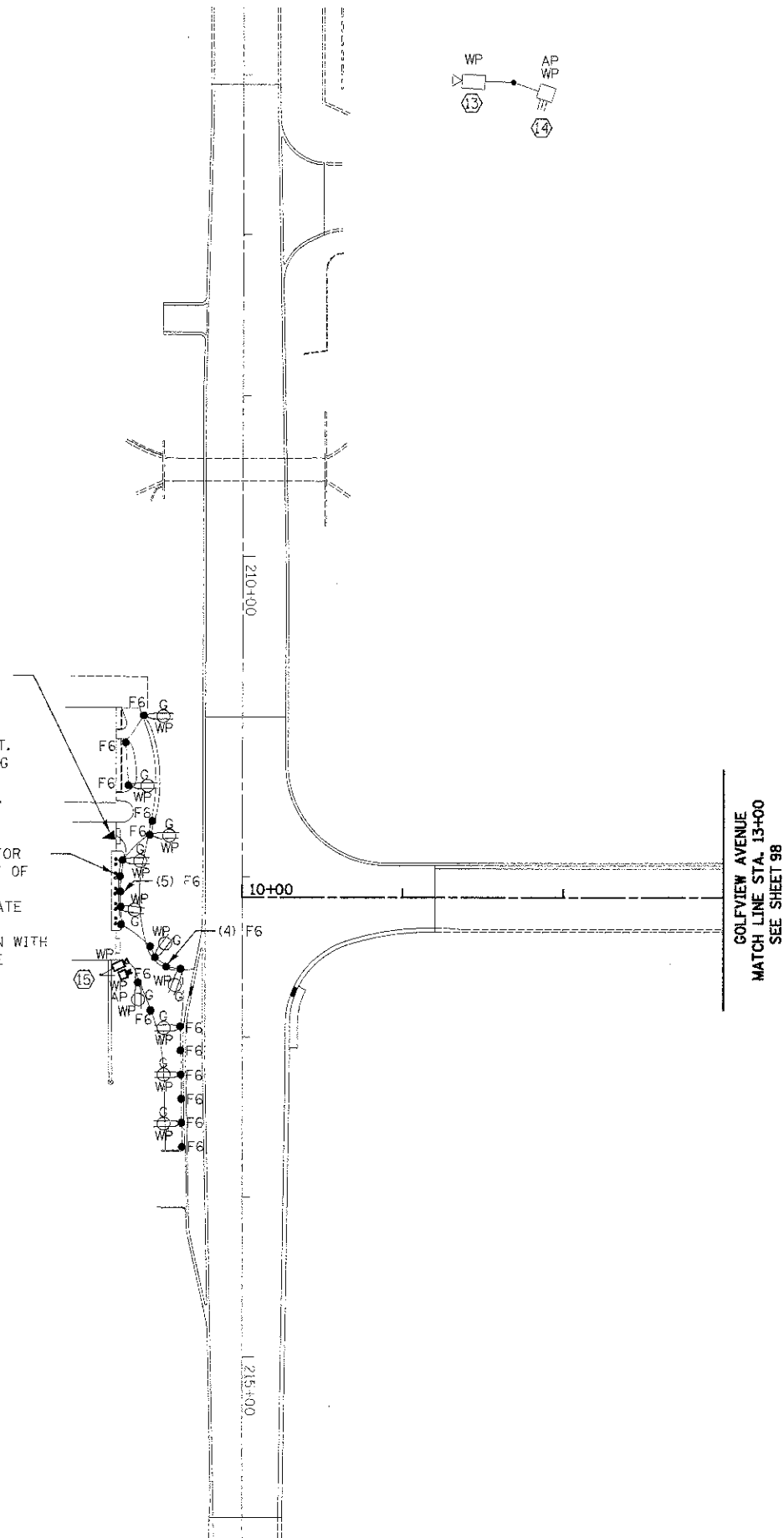
KEYED NOTES

- ⑬ NEW IP SECURITY CAMERA MOUNTED TO LIGHT POLE AND/OR CANOPY  
VERIFY MTG HEIGHT WITH CZS.
- ⑭ WIRELESS ACCESS POINT (AP) MOUNTED TO LIGHT POLE AND/OR CANOPY  
VERIFY MTG HEIGHT WITH CZS.
- ⑮ ADD NEW IP SECURITY CAMERA & NEW WIRELESS ACCESS POINT (AP)  
TO NORTH GATE ENTRANCE. COORDINATE EXACT LOCATION AND  
MOUNTING HEIGHT WITH CZS.



1" C W/ 2\*6, 1\*8G FOR  
RECEPTACLE BRANCH  
CIRCUIT & 2\*6, 1\*8G  
FOR ARCHWAY STRUCTURE  
FLOOD LIGHT BRANCH CIRCUIT.  
COORDINATE CONDUIT ROUTING  
& FINAL TERMINATION WITH  
CZS FACILITIES DEPARTMENT.

(10) F7 FOR  
UP-LIGHT OF  
BANNERS  
COORDINATE  
EXACT  
LOCATION WITH  
CZS SITE

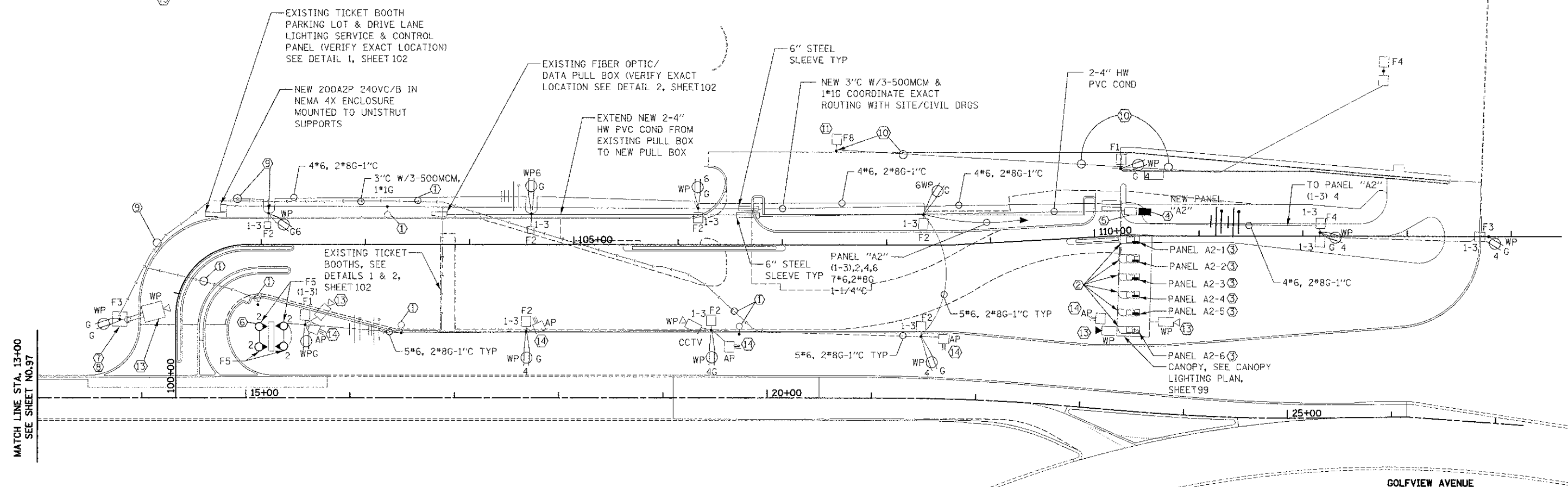
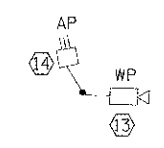
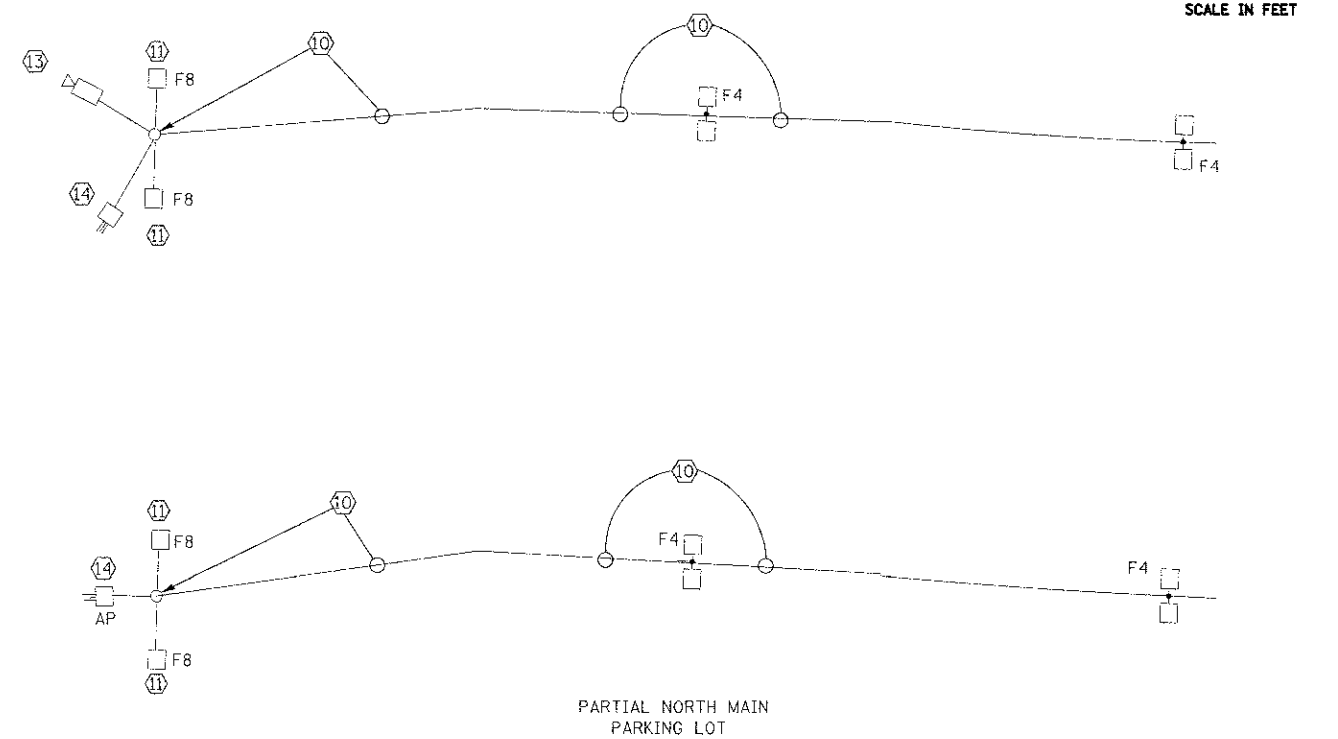
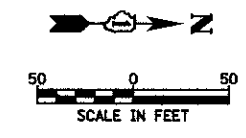


31ST STREET

FILE NAME = ...sheet\Lighting\2563.5.1.2.dgn	USER NAME = dse	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL SITE PLAN E1.0</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			3784	12-F3000-23-PK	COOK	133	97	
		CHECKED -	REVISED -			<b>CONTRACT NO. 63764</b>					
		PLT DATE = 11/9/2012	DATE -			SCALE: 1" = 50'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**KEYED NOTES**

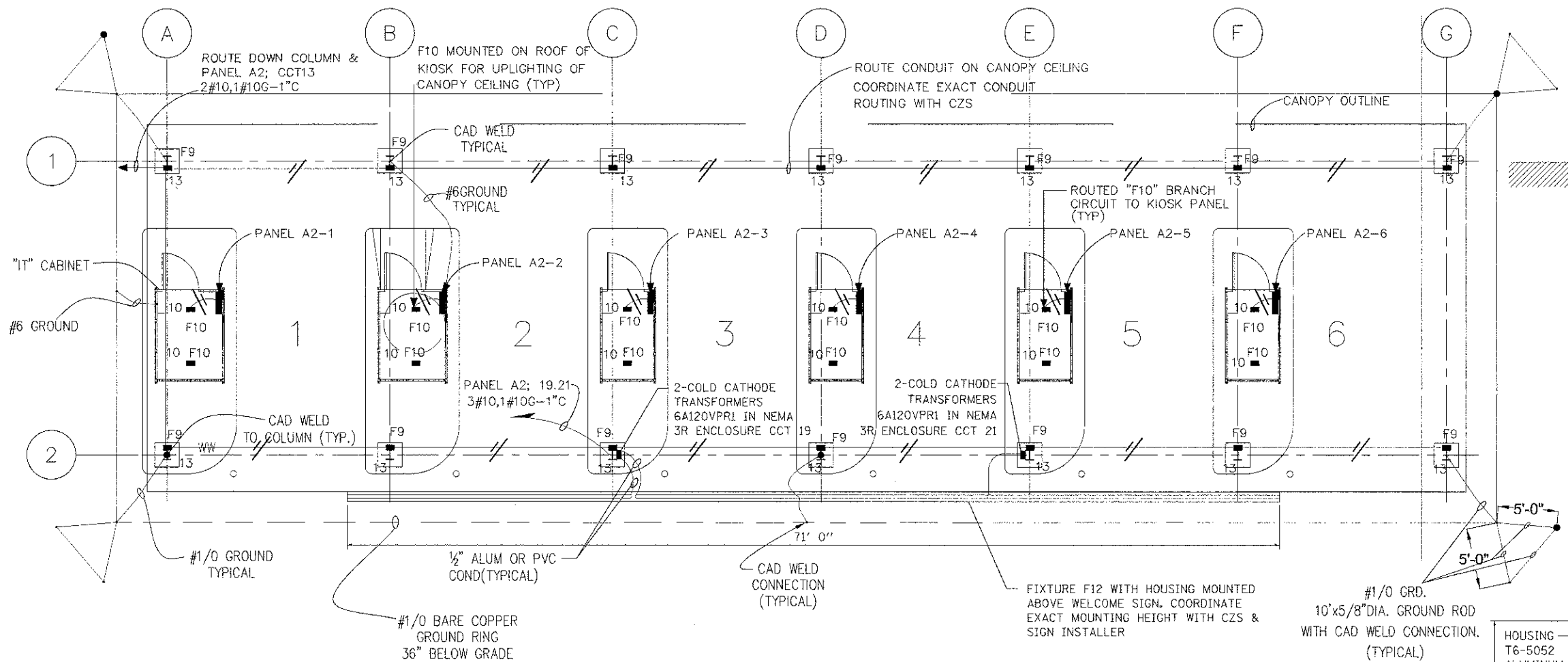
- ① DISCONNECT & REMOVE EXISTING POLE, LIGHT FIXTURE, CAMERAS, ETC & REMOVE WIRE, CABLE TO SOURCE, THIS WORK SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" CONCRETE BASE REMOVAL SHALL BE PAID FOR AS "REMOVAL OF POLE FOUNDATION".
- ② PRE FAB KIOSK FURNISHED & MOUNTED BY OTHERS. SEE DRG. E1.2
- ③ 100A120/240V1Ø3W 18 CIRCUIT PANEL FURNISHED WITH KIOSK. EC SHALL BE RESPONSIBLE TO COORDINATE KIOSK SERVICE STUBUP LOCATION & MAKE FINAL CONNECTION TO PANEL.
- ④ NEW BOOTH SERVICE PANEL "A2" SEE NEW KIOSK ELECTRIC SERVICE DIAGRAM DRG. E2.0
- ⑤ NEW KIOSK FIBER OPTIC/DATA PULL BOX/DISTRIBUTION DIAGRAM DRG. E2.0.
- ⑥ PROPOSED SIGN. VERIFY EXACT LOCATION WITH SIGN INSTALLER PRIOR TO ROUGH IN OF LIGHT FIXTURE F5
- ⑦ SAME AS FOR ITEM ① EXCEPT CONCRETE BASE & POLE TO REMAIN.
- ⑧ F&I NEW "F3" TYPE FIXTURE ON TO EXISTING POLE. PROVIDE MOUNTING BRACKET AS NECESSARY.
- ⑨ INTERCEPT EXISTING CONDUIT & EXTEND TO NEW "F2" FIXTURE. FURNISH & INSTALL NEW 4\*6, 2\*8GRD INTO EXISTING CONDUIT FROM NEW F2 FIXTURE TO NEW F3 FIXTURE ALSO SEE NOTE ⑧
- ⑩ INTERCEPT EXISTING LIGHT POLE FEEDER & EXTEND WIRE OF SAME AMPACITY IN NEW CONDUIT TO NEW PARKING LOT LIGHT FIXTURE.
- ⑪ DISCONNECT & REMOVE EXISTING LIGHT FIXTURE FROM EXISTING POLE & F&I NEW F8 LIGHT FIXTURE CONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE MOUNTING BRACKET AS NECESSARY.
- ⑫ NOT USED
- ⑬ NEW IP SECURITY CAMERA MOUNTED TO LIGHT POLE AND/OR CANOPY VERIFY MTG HEIGHT WITH CZS.
- ⑭ WIRELESS ACCESS POINT (AP) MOUNTED TO LIGHT POLE AND/OR CANOPY VERIFY MTG HEIGHT WITH CZS.



MATCH LINE STA. 13+00  
SEE SHEET NO.97

GOLFVIEW AVENUE

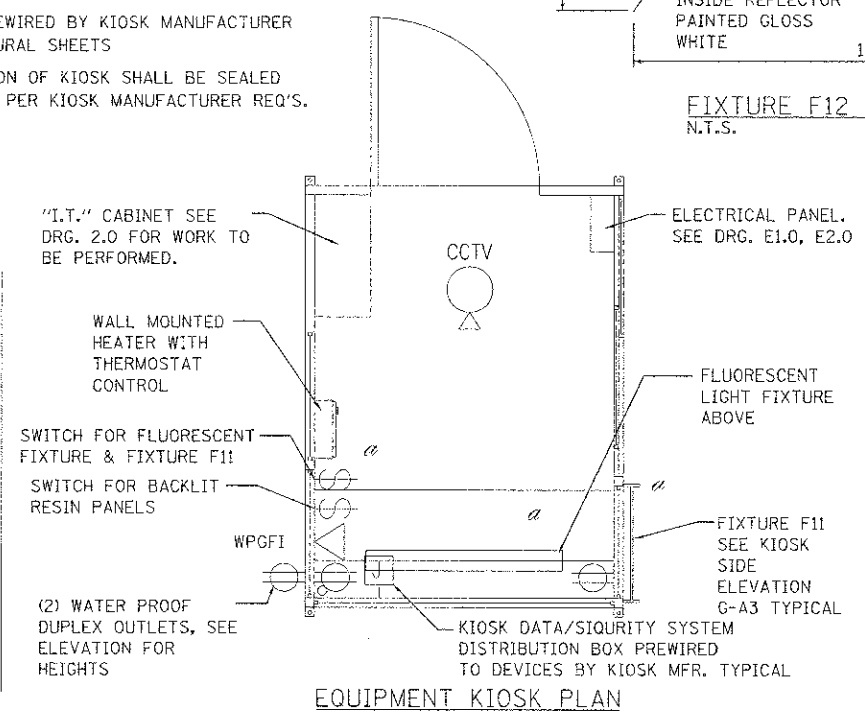
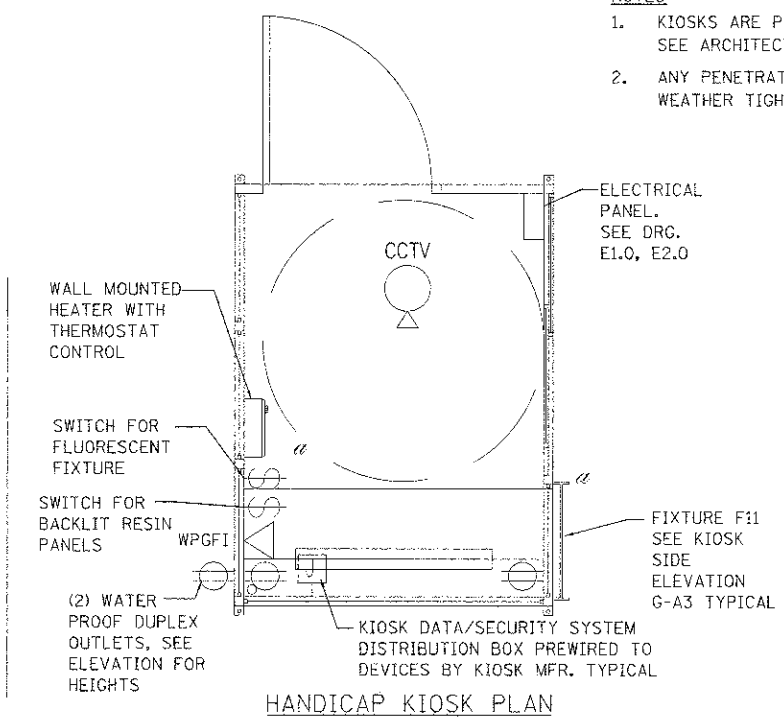
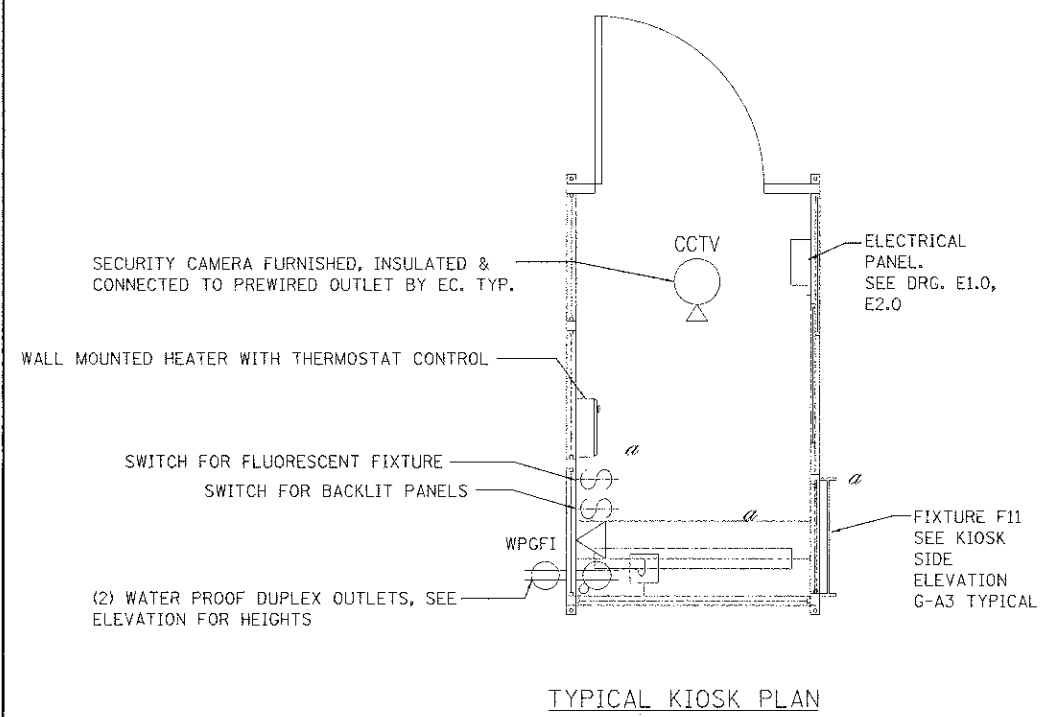
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PLOT SCALE : 50.0000 / 1" = 50'		CHECKED -	REVISED -			SCALE: 1" = 50'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 63764			
PLOT DATE : 11/28/2012		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



## CANOPY LIGHTING AND GROUNDING PLAN

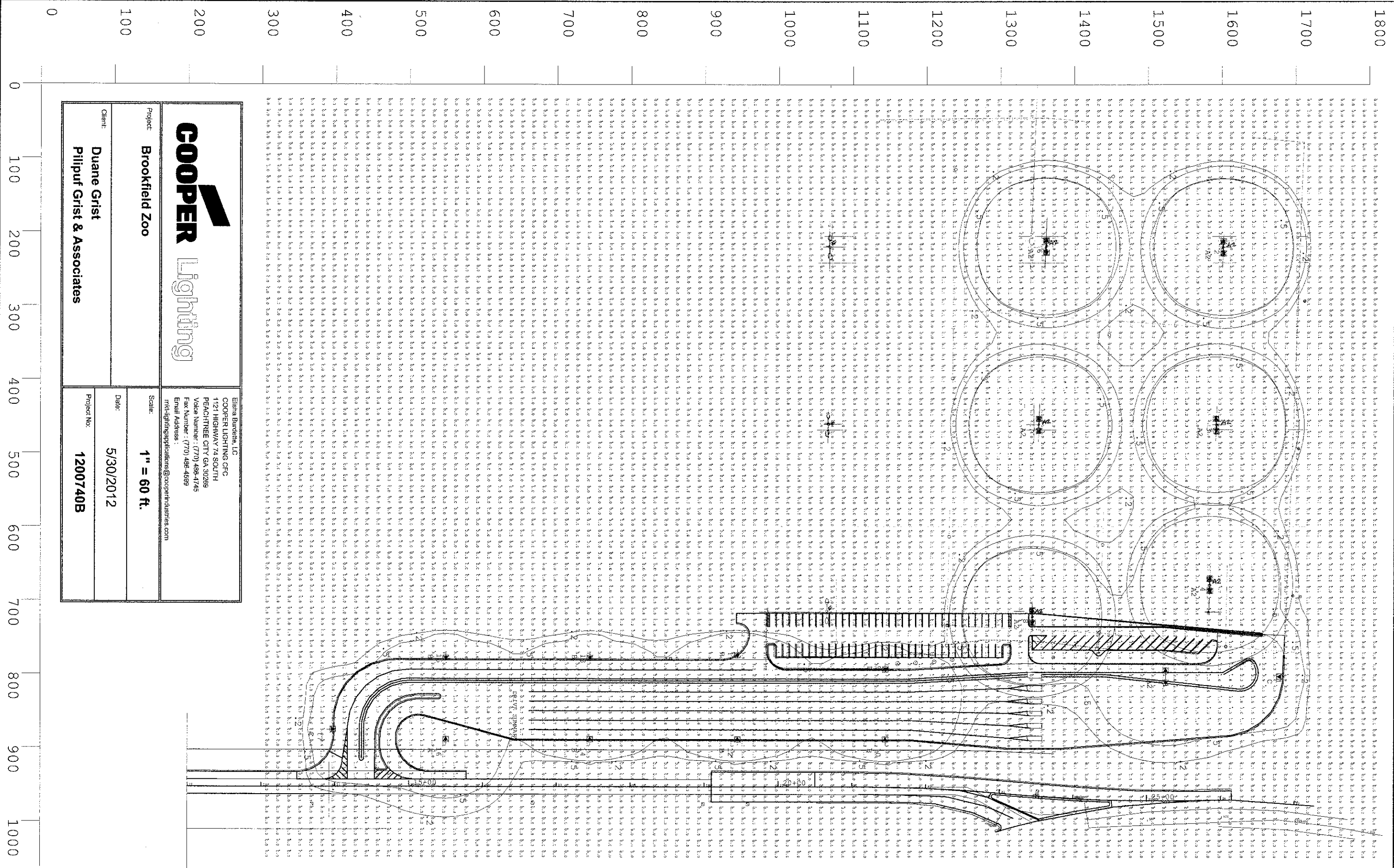
- NOTES**
1. KIOSKS ARE PREWIRED BY KIOSK MANUFACTURER SEE ARCHITECTURAL SHEETS
  2. ANY PENETRATION OF KIOSK SHALL BE SEALED WEATHER TIGHT PER KIOSK MANUFACTURER REQ'S.

FIXTURE F12 MOUNTING DETAIL N.T.S.



FILE NAME =	USER NAME = dte	DESIGNED - WK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CANOPY LIGHTING PLAN E1.2</b>	F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 99	
...:\sheet\Lighting\2563.F.1.2.dgn	PLUT SCALE = 4.0000 / 1/8"	DRAWN - FI	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT	CONTRACT NO. 63764
PL31 DATE = 12/13/2012	DATE = 10/22/2012	CHECKED - VT	REVISED -								
		DATE = 10/22/2012	REVISED -								





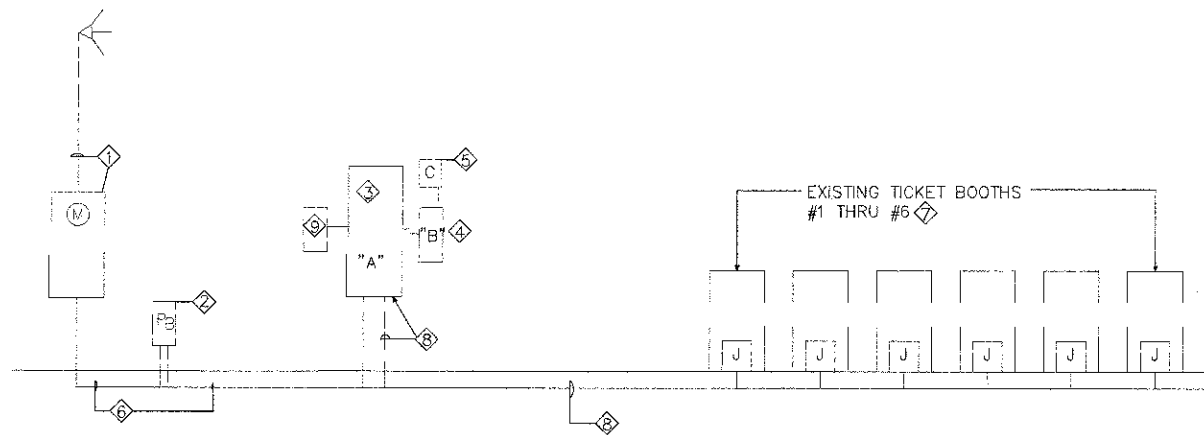
Eliena Burnette, LC COOPER LIGHTING CFC 1121 HIGHWAY 74 SOUTH PEACHTREE CITY GA 30229 Voice Number: (770) 488-4745 Fax Number: (770) 488-4659 Email Address: info@lightingapplications@cooperindustries.com	
Project: <b>Brookfield Zoo</b>	Scale: <b>1" = 60 ft.</b>
Client: <b>Duane Grist Pillipuf Grist &amp; Associates</b>	Date: <b>5/30/2012</b>
Project No: <b>1200740B</b>	

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Watts	Total Watts	Lum. Lumens
	1	A	SINGLE	0.912	VTS-B12-LED-E1-5WQ	285	285	28407
	7	A2	BACK-BACK	0.912	VTS-B12-LED-E1-5WQ	285	3990	28407
	7	B	SINGLE	0.912	VTS-B12-LED-E1-SL3	285	1995	26314
	2	C	SINGLE	0.912	VTS-B12-LED-E1-SL4	285	570	26757

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
CalcPts@Grade	Illuminance	Fc	0.38	5.4	0.0	N.A.	N.A.	
DRIVE SUMMARY	Illuminance	Fc	1.37	5.4	0.0	N.A.	N.A.	

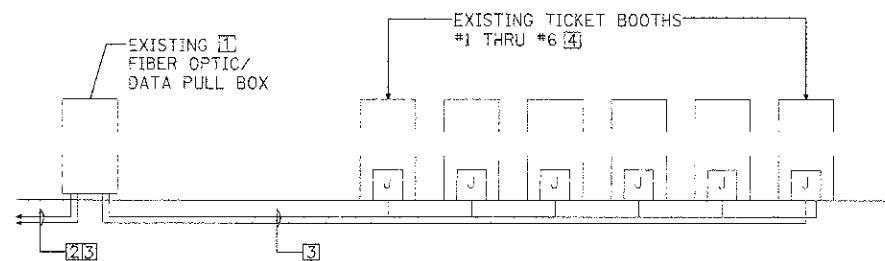
Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	C	802.828	1686.663	30	270	0
2	A2	220.062	1602.007	30	0	0
3	A2	460.995	1592.06	30	0	0
4	A2	677.916	1584.123	30	0	0
5	A2	802.828	1524.663	30	0	0
6	A2	218.956	1362.179	30	0	0
7	A2	460.995	1352.232	30	0	0
8	A2	721.119	1343.993	30	0	0
9	B	784.828	1144.663	30	0	0
10	B	896.828	1144.663	30	180	0
11	B	765.828	944.663	30	0	0
12	B	896.828	944.663	30	180	0
13	B	769.828	744.663	30	0	0
14	B	896.828	744.663	30	180	0
15	B	769.828	549.663	30	0	0
16	A	896.828	549.663	30	180	0
17	C	875.828	388.663	30	90	0

	Elisha Burdette, LC COOPER LIGHTING CFC 1121 HIGHWAY 74 SOUTH PEACHTREE CITY GA 30289 Voice Number : (770) 486-4745 Fax Number : (770) 486-4599 Email Address : mkt-lightingapplications@cooperindustries.com
	Project: <b>Brookfield Zoo</b>
Client: <b>Duane Grist Pilipuf Grist &amp; Associates</b>	Scale:  Date: <b>5/30/2012</b>  Project No: <b>1200740B</b>



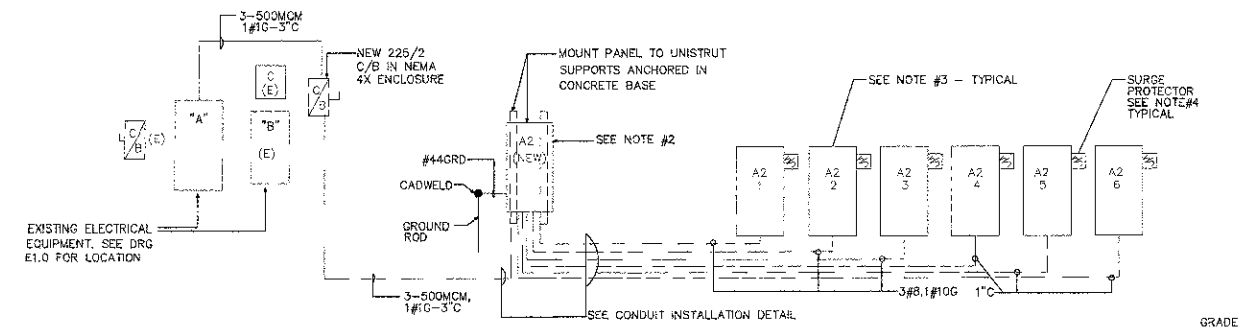
① ELECTRICAL DEMOLITION DIAGRAM

- ① EXISTING 400A 120/240V1Ø3W METER & SERVICE DROP TO REMAIN
- ② EXISTING PULL/SPLICE BOX TO REMAIN
- ③ EXISTING 225A 120/240V1Ø3W PANEL TO REMAIN. SEE PANEL "A" SCHEDULE
- ④ EXISTING 200A 120/240V1Ø3W PANEL TO REMAIN. SEE PANEL "B" SCHEDULE.
- ⑤ EXISTING 200A 240V1Ø PANEL "B" CONTACTOR TO REMAIN.
- ⑥ EXISTING CONDUIT & WIRE TO REMAIN
- ⑦ DISCONNECT EXISTING TICKET BOOTH FROM SOURCE TO FACILITATE REMOVAL OF TICKET BOOTH BY OTHERS
- ⑧ DISCONNECT & REMOVE WIRE FROM CONDUIT COMPLETELY, & REMOVE CONDUIT FROM PANEL. VERIFY EXACT NUMBER OF CONDUITS SERVING EXISTING TICKET BOOTHS, PRIOR TO PERFORMING ANY WORK.
- ⑨ EXISTING SUBFEED BREAKER TO REMAIN.



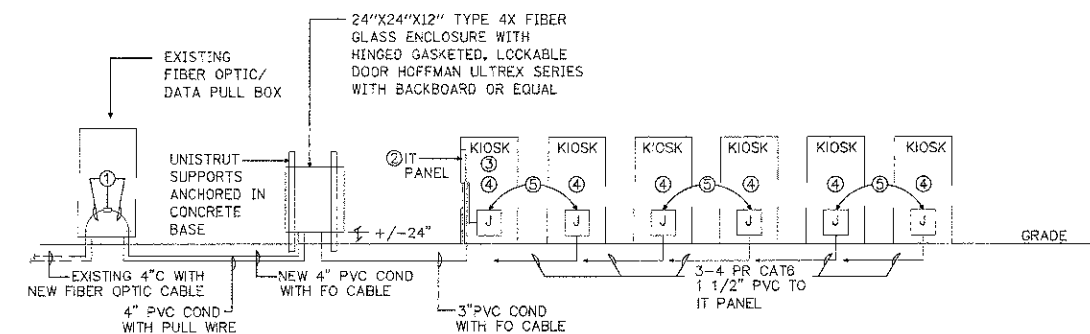
② EXISTING TICKET BOOTH SERVICE DIAGRAM

- ① EXISTING PULL BOX TO REMAIN
- ② EXISTING 2-4" SERVICE COND TO REMAIN
- ③ COORDINATE REMOVAL OF EXISTING FIBER/OPTIC/DATA FROM EXISTING CONDUIT WITH CHICAGO ZOOLOGICAL SOCIETY INFORMATION SERVICES, AT BROOKFIELD ZOO.
- ④ DISCONNECT ALL LOW VOLTAGE CABLES, ie, DATA, PHONE, CCTV, ETC. FROM WITHIN EXISTING TICKET BOOTHS TO FACILITATE TICKET BOOTH REMOVAL BY OTHERS.



③ NEW BOOTH ELECTRIC SERVICE DIAGRAM

1. FURNISH & INSTALL GROUND BUSHINGS & BOND METAL ENCLOSURES
2. PANEL "A2" SHALL BE NEMA 4X ENCLOSURE WITH HINGED & GASKETED DOOR & 3 POINT LATCH WITH LOCK
3. FURNISHED & PREWIRED WITH KIOSK
4. EC SHALL F & I SURGE PROTECTOR, SURGE PROTECTOR SHALL BE EQUAL TO : MCG SURGE PROTECTION : MODEL PT80-120T : 120/240V 1Ø 3W+G



④ NEW BOOTH FIBER OPTIC/LOW VOLTAGE DISTRIBUTION DIAGRAM

1. FURNISH AND INSTALL NEW 12 STRAND, SINGLE MODE OUTDOOR RATED FIBER OPTIC CABLE FROM DISCOVERY BUILDING DISTRIBUTION SWITCH AND EXTEND TO NEW DATA PULL / SPLICE CABINET SYSTEMAX AND INTO NEW IT PANEL IN FIRST KIOSK SYSTEMAX COMMSCOPE OR EQUAL
2. NEW NETWORK HARDWARE CABINET 36"H x 26"W x 12"D CABINET SHALL BE EQUAL TO: CHATSWORTH PRODUCTS, INC CABINET # 13050-723 PATCH PANEL MGMT BAR # 12176-701 FIBER SLACK MGR PANEL # 12955-719 DUPLEX RECEPTABLE # 12934-001
3. COPPER DATA CABLE SHALL BE 4PAIR CAT6, OUTDOOR RATED. SYSTEMAX / COMMSCOPE OR EQUAL
4. EACH KIOSK SHALL BE HARDWIRED WITH CAT 6 CABLE FOR 3 DATA TELEPHONE, POS REGISTER, CCTV CAMERA. SEE ARCH DRG FOR EXACT LOCATION. EACH CAT6 DATA CABLE SHALL BE SURGE PROTECTED WITH SOLID STATE BUILDING ENTRANCE PROTECTORS. SURGE PROTECTORS SHALL BE EQUAL TO ITW LINX SURGE GATE IGB CAT6-75
5. COORDINATE EXACT STUB UP LOCATION WITH KIOSK INSTALLER & GEN CONTRACTOR PRIOR TO ROUGH-IN.
6. FIBER OPTIC CABLE SPLICING SHALL BE PERFORMED BY A QUALIFIED TECHNICIAN WITH MINIMUM OF 5 YEARS OF FIBER OPTIC CABLE SPLICING EXPERIENCE.
7. NEW NETWORK SWITCH HARDWARE MODEL CISCO WS-C3560G-48-PS-S TO ACCOMMODATE TOTAL NUMBER OF NETWORK CONNECTIONS IN KIOSKS AND CANOPY CONNECTION FOR CAMERAS AND WIRELESS ACCESS POINTS.

FILE NAME = ...\\server\Lighting\2583.E.2.0.dgn	USER NAME = dte	DESIGNED - WK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRICAL DIAGRAMS &amp; SCHEDULES E2.0</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PL-OT SCALE = 1:0200' / 1"	DRAWN - FI	REVISED -			37B4	12-F3000-23-PK	COOK	133	102	
	PL-OT DATE = 11/9/2012	CHECKED - VI	REVISED -			<b>CONTRACT NO. 63764</b>					
		DATE - 10/22/2012	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

**PANEL: A-NORTH WEST PARKING LOT (EXISTING)**

SPACES 30	MOUNTING SURFACE	LOCATION	MAIN LUG ONLY		MAIN BREAKER		VOLTAGE 120/240V 1Ø 3W			MAIN BUS RAT.		FEED	DESCRIPTION	CKT. NO.
			A Ø	B Ø	BKR SIZE	POLE	A Ø	B Ø	A Ø	B Ø				
1		PANEL			20	1			20	1			SPARE	2
3		TICKET BOOTH #3			30	2			30	2			TICKET BOOTH #6	4
5														6
7		TICKET BOOTH #2			30	2			30	2			TICKET BOOTH #5	8
9														10
11		TICKET BOOTH #1			30	2			30	2			TICKET BOOTH #4	12
13														14
15		ENTRANCE LTS			20	2			20	1			ENTRANCE LTS	16
17		ENTRANCE LTS												18
19		SPACE			20	1			20	1			SPACE	20
21					20	1			20	1			SPACE	22
23		PARKING LOT LTS			50	2			20	1			SPACE	24
25					20	1			20	1			SPACE	26
27					20	2			100	2			VENDING SHED	28
29													VENDING SHED	30
TOTAL									TOTAL					

TOTAL CONN. = , W / = A

- 1 EXISTING LOAD TO REMAIN
- 2 DISCONNECT & REMOVE EXISTING CONDUCTORS COMPLETELY, REMOVE C/B & PROVIDE BLANK PLATE

**PANEL: B (EXISTING)**

SPACES 30	MOUNTING SURFACE	LOCATION	MAIN LUG ONLY		MAIN BREAKER		VOLTAGE 120/240V 1Ø 3W			MAIN BUS RAT.		FEED	DESCRIPTION	CKT. NO.
			A Ø	B Ø	BKR SIZE	POLE	A Ø	B Ø	A Ø	B Ø				
1					30	2			30	2			EXISTING LOAD	2
3													EXISTING LOAD	4
5													EXISTING LOAD	6
7													EXISTING LOAD	8
9													EXISTING LOAD	10
11													EXISTING LOAD	12
13													EXISTING LOAD	14
15													EXISTING LOAD	16
17													EXISTING LOAD	18
19														20
21					20	1			20	1			SPACE	22
23					20	2			20	1			SPACE	24
25					20	1			20	1			SPACE	26
27														28
29														30
TOTAL									TOTAL					

TOTAL CONN. = , W / = A

**PANEL: PANEL: A2 (NEW) NEMA4X ENCLOSURE**

SPACES 40	MOUNTING SURFACE	LOCATION	MAIN LUG ONLY		MAIN 200/2 BREAKER		VOLTAGE 120/240V 1Ø 3W			MAIN BUS RAT. 225A		FEED	DESCRIPTION	CKT. NO.
			A Ø	B Ø	BKR SIZE	POLE	A Ø	B Ø	A Ø	B Ø				
1		DRIVE AISLE POLE LTS	1536						20	1	320		SIGN LTG	2
3				1536					20	1	900		EAST POLE LT RECPT	4
5		KIOSK A2-1	2980		40	2			20	1	1080		EAST POLE LT RECPT	6
7				2940					20	1			SPARE	8
9		KIOSK A2-2	2980		40	2			20	1			SPARE	10
11				2940					40	2	2940		KIOSK A2-4	12
13		CANOPY LT	420		20	1			40	2	2940			14
15		KIOSK A2-3		2940	40	2			40	2	2980		KIOSK A2-5	16
17				2940					40	2	2980			18
19		WELCOME SIGN LIGHTING		1440	20	1			40	2	2980		KIOSK A2-6	20
21		WELCOME SIGN LIGHTING		720	20	1			20	1	2940			22
23		SPACE			20	1			20	1			SPACE	24
25					20	1			20	1				26
27					20	1			20	1				28
29					20	1			20	1				30
31					20	1			20	1				32
33					20	1			20	1				34
35					20	1			20	1				36
37					20	1			20	1				38
39					20	1			20	1				40
TOTAL			11576	11798					TOTAL		10220	9800		

CONNECTED LOAD = 42192W

**DEMAND LOAD DATA**

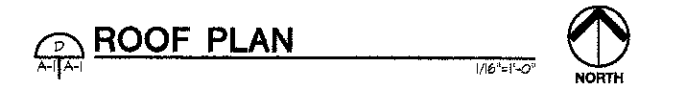
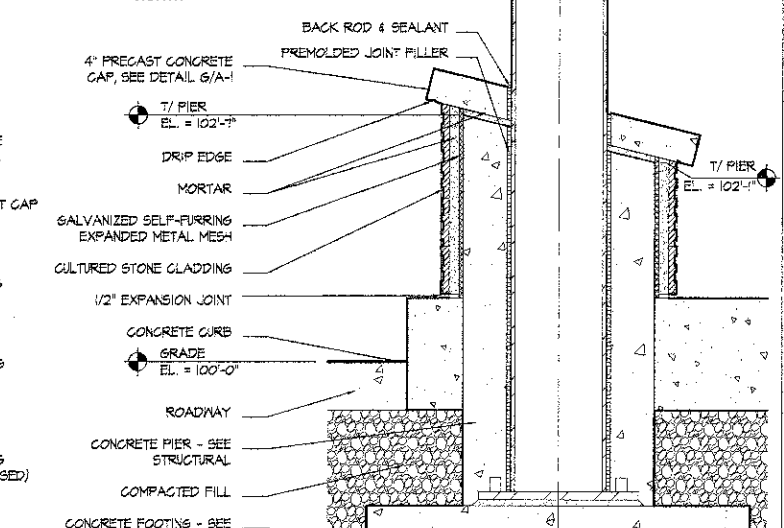
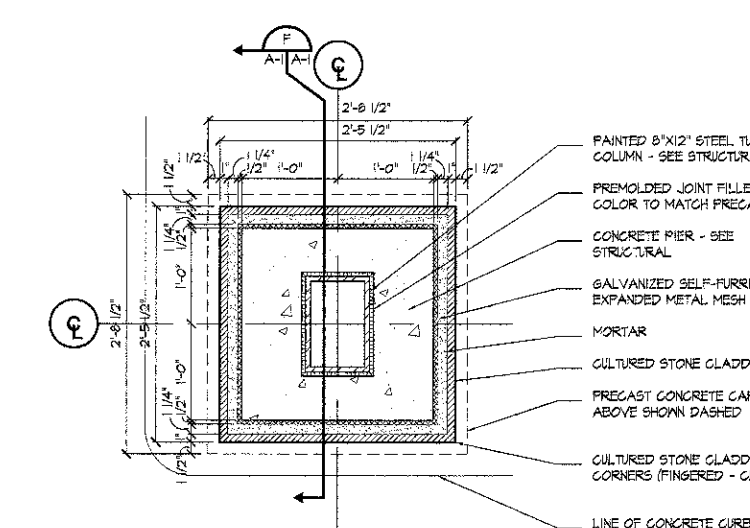
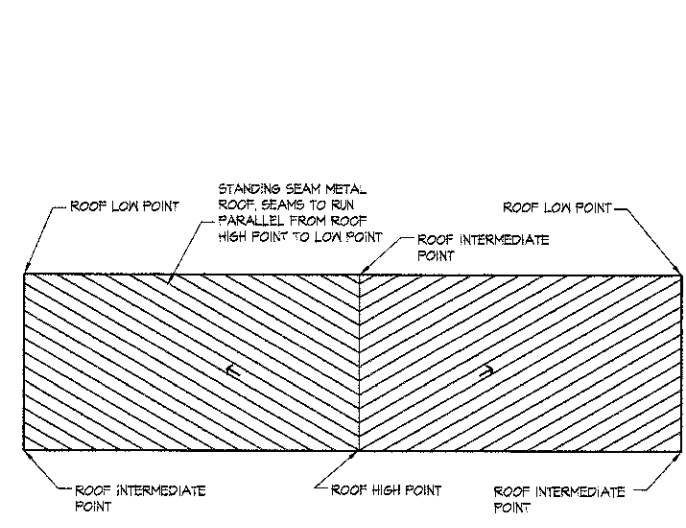
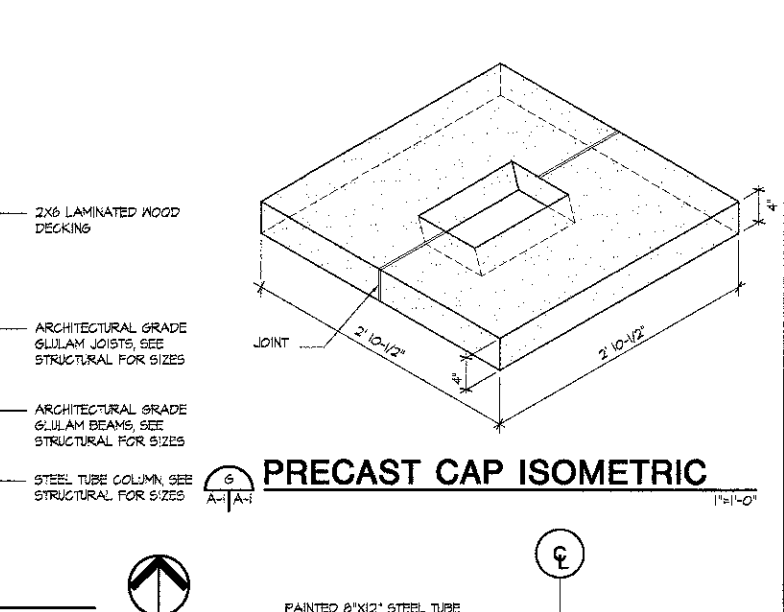
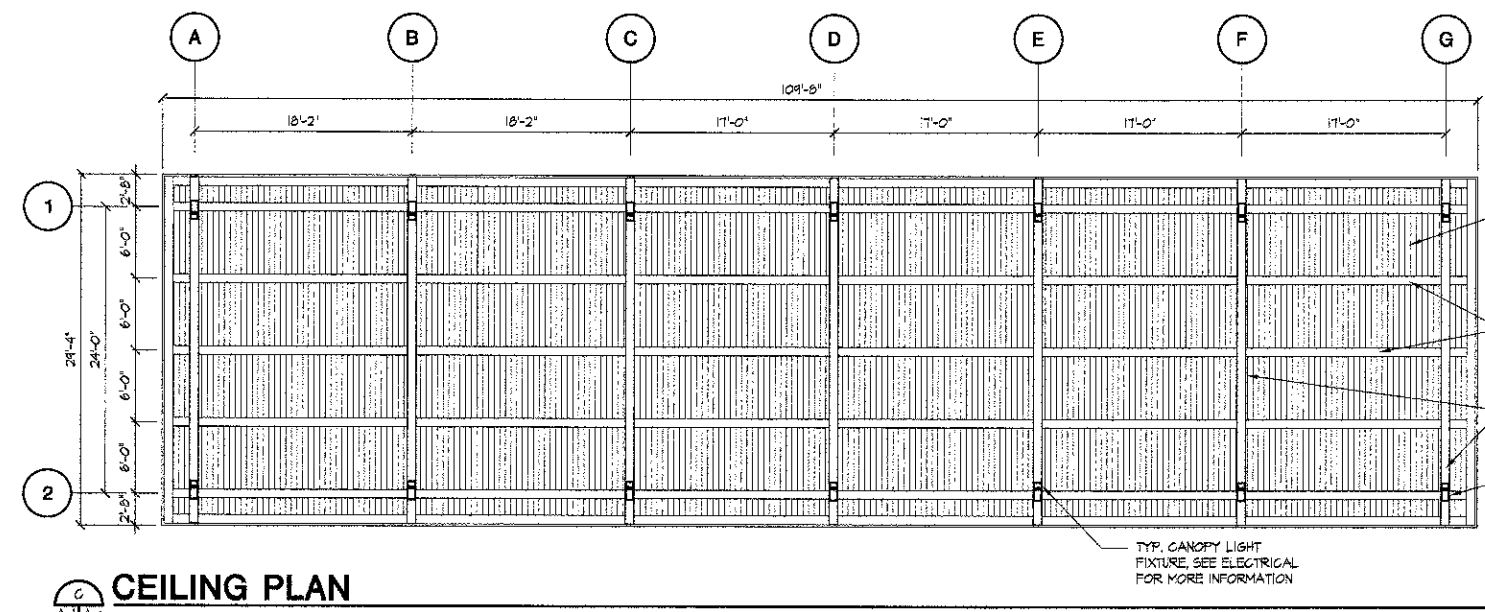
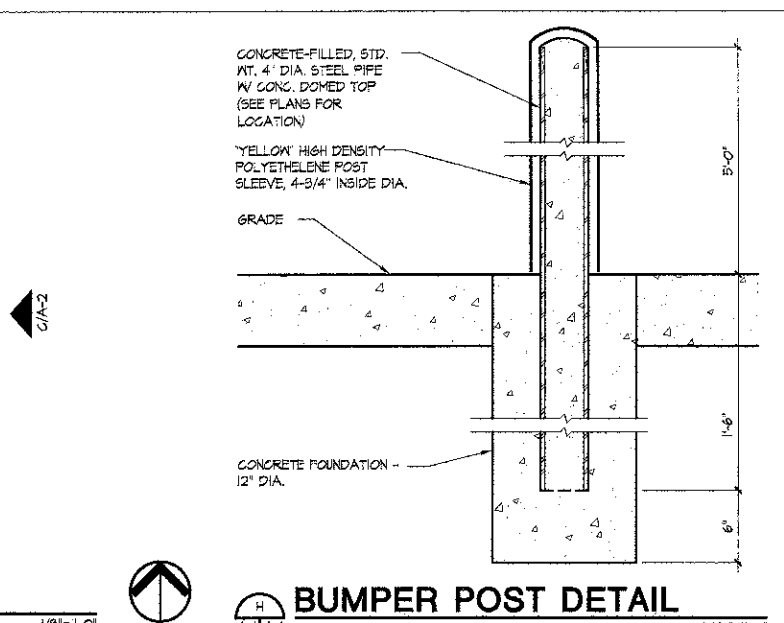
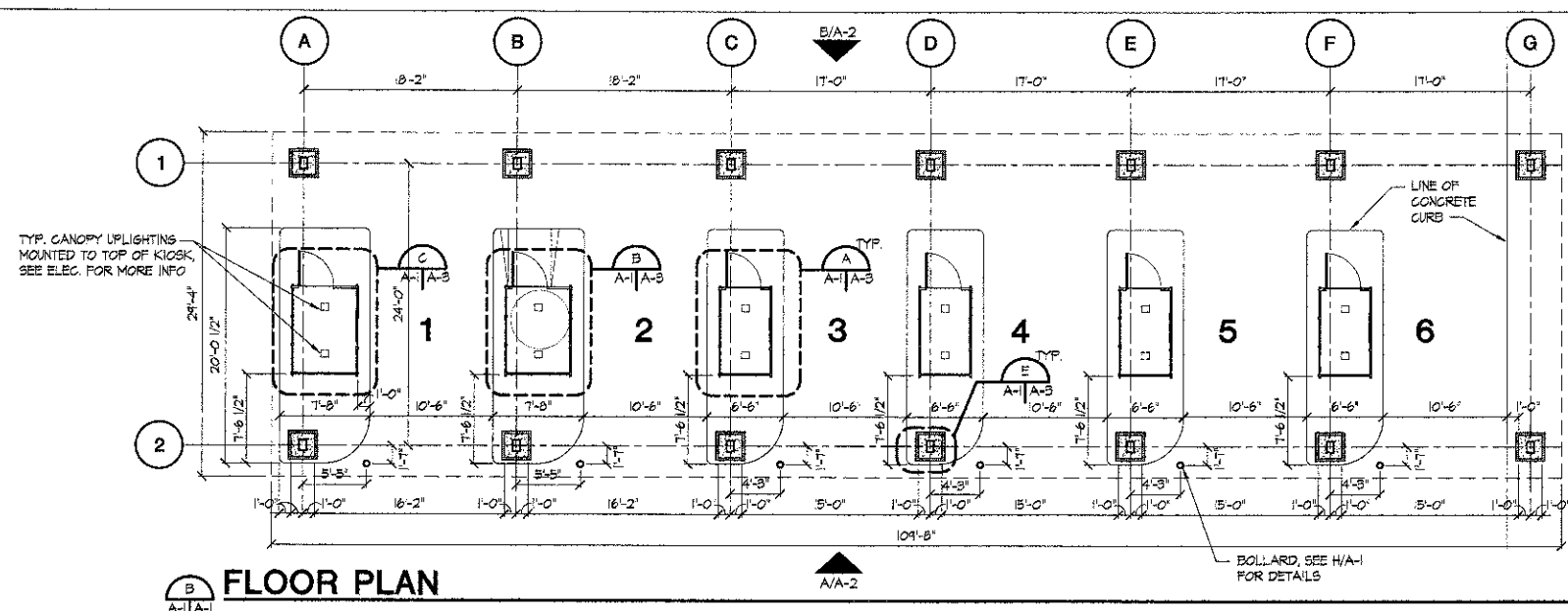
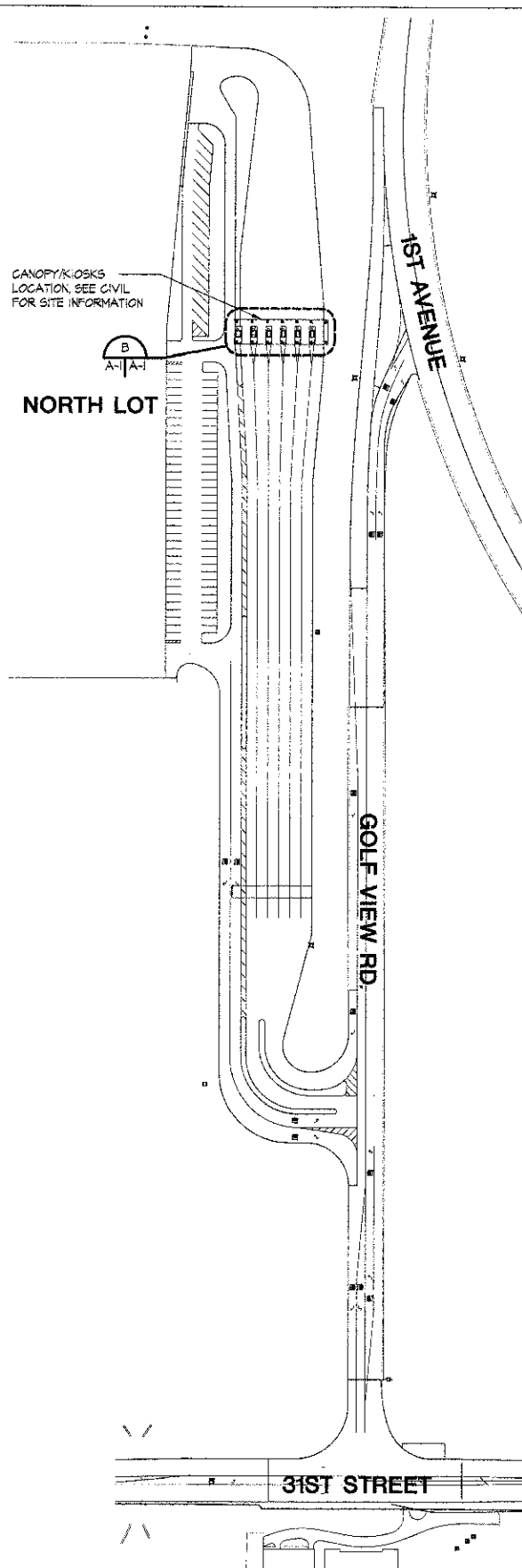
LTG 5252W x 100% = 5252W  
 Ⓞ 1980W x 100% = 1980W  
 KIOSK PANEL 32160W x 80% = 25728W  
 32960W / 240V = 137A

**PANEL: A2-1 (A2-2, A2-3, A2-4, A2-5, A2-6 SIMILAR)**

SPACES 30	MOUNTING SURFACE	LOCATION	MAIN LUG ONLY		MAIN BREAKER		VOLTAGE 120/240V 1Ø 3W			MAIN BUS RAT.		FEED	DESCRIPTION	CKT. NO.
			A Ø	B Ø	BKR SIZE	POLE	A Ø	B Ø	A Ø	B Ø				
1		KIOSK LTS	400		20	1			20	1	1776		ROOF A/C	2
3		KIOSK COUNTER RECPT		360	20	1			30	2	2400	2400	ELEC CAB	4
5		KIOSK COUNTER RECPT	180		20	1			20	1	2400		HEATER	6
7		KIOSK COUNTER RECPT		180	20	1			20	1	360		IT CAB RECEPTACLE	8
9		SPACE			20	1			20	1	80		ROOF TOP CANOPY UPLIGHT	10
11		SPACE			20	1			20	1			SPACE	12
13		SPACE			20	1			20	1			SPACE	14
15		SURGE SUPPRESSOR			30	2			20	1			SPACE	16
17									20	1				
TOTAL			580	540					TOTAL		2480	2760		

TOTAL CONN. = 5360/240V = 22.3 A

\* FOR PANEL A2-1 ONLY



**The Jenkins Group**  
 Architects | Engineers | Planners

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 Itasca, Illinois 60143  
 Tel: 630.250.9100 Fax: 630.250.9177  
 www.thejenkinsgroup.com

DRAWN	M. LANGE	REVISED	
DESIGNED	M. LANGE	REVISED	
CHECKED	G. HATLESTAD	REVISED	
DATE	NOVEMBER 9, 2012	REVISED	

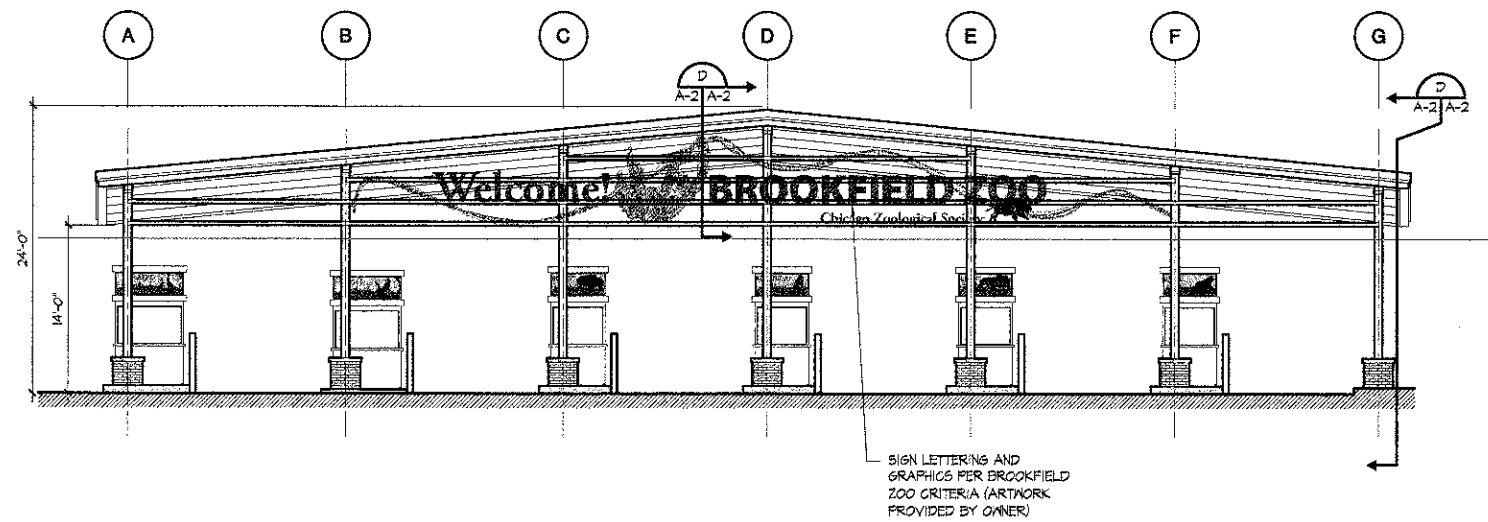
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO CANOPY  
 PLANS AND DETAILS

SHEET NO. A-1

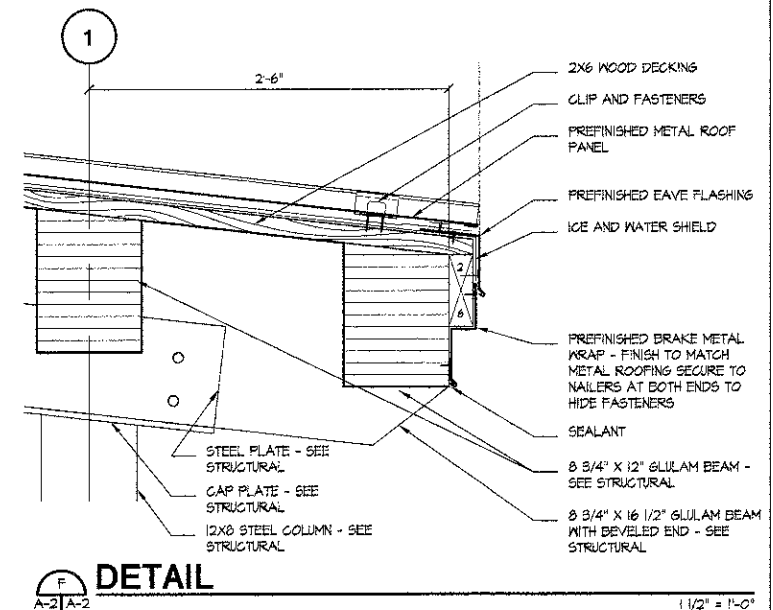
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	06-0019-00-PK	COOK	133	104

ILLINOIS FED. AID PROJECT



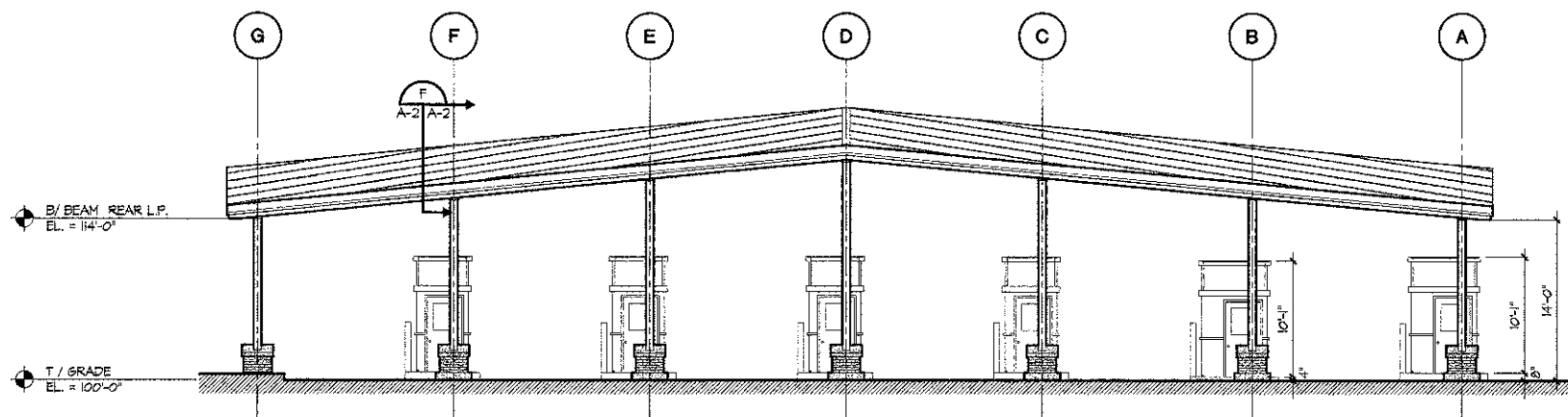
**A FRONT ELEVATION**  
A-1 | A-2

1/8" = 1'-0"



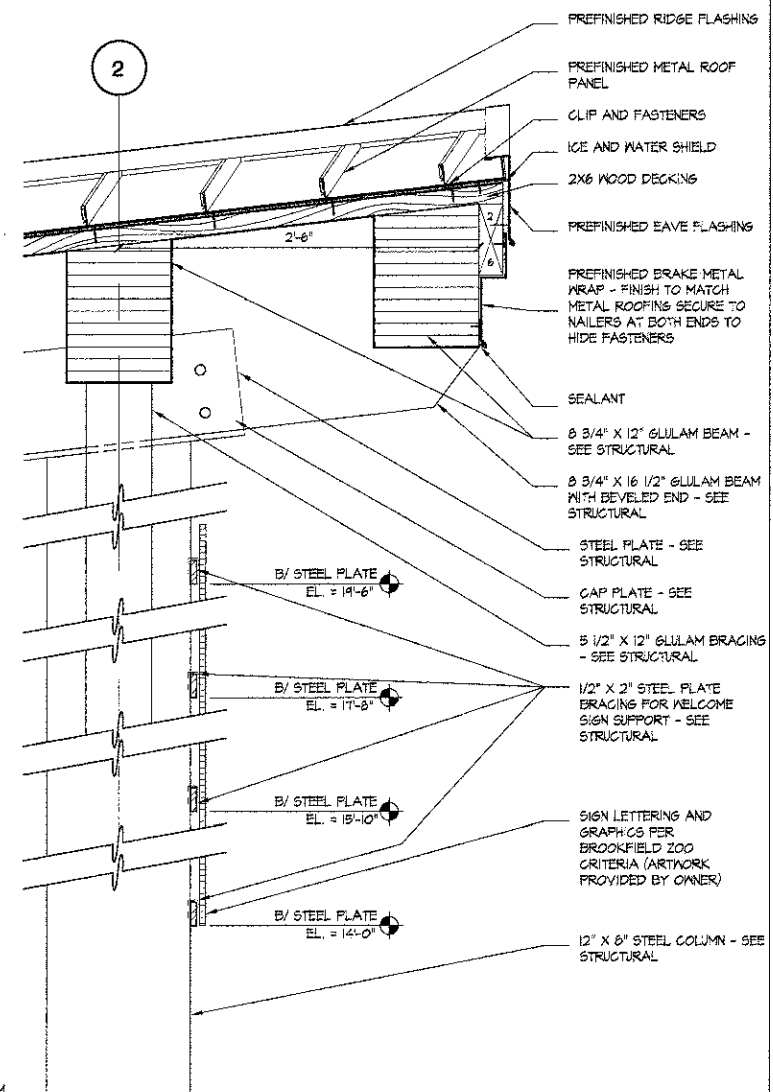
**F DETAIL**  
A-2 | A-2

1/2" = 1'-0"



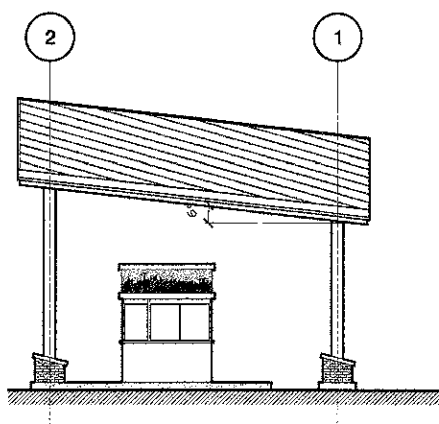
**B REAR ELEVATION**  
A-1 | A-2

1/8" = 1'-0"



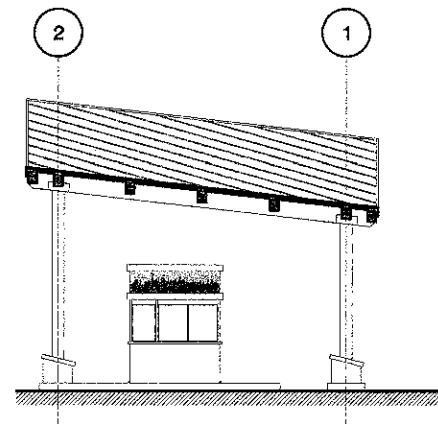
**G DETAIL**  
A-2 | A-2

1/2" = 1'-0"



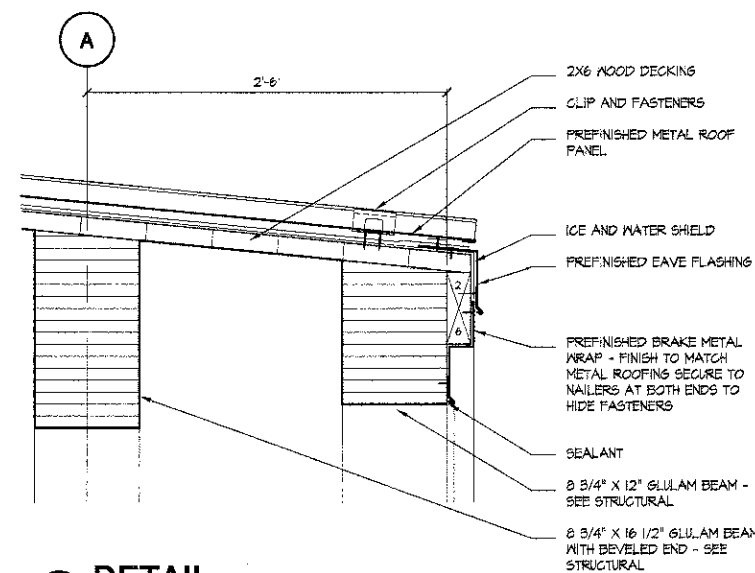
**C SIDE ELEVATION**  
A-1 | A-2

1/8" = 1'-0"



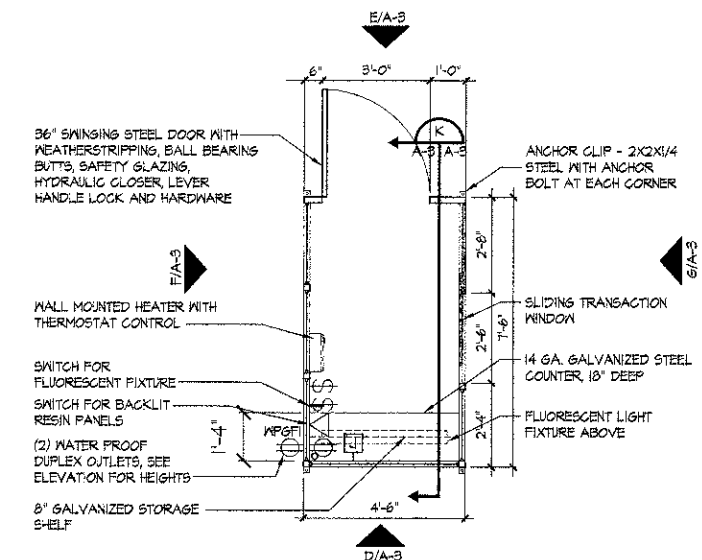
**D CANOPY SECTION**  
A-1 | A-2

1/8" = 1'-0"

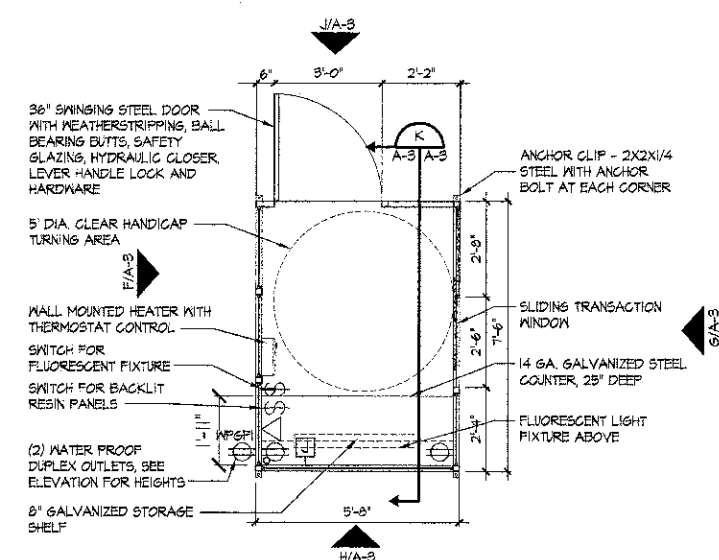


**F DETAIL**  
A-2 | A-2

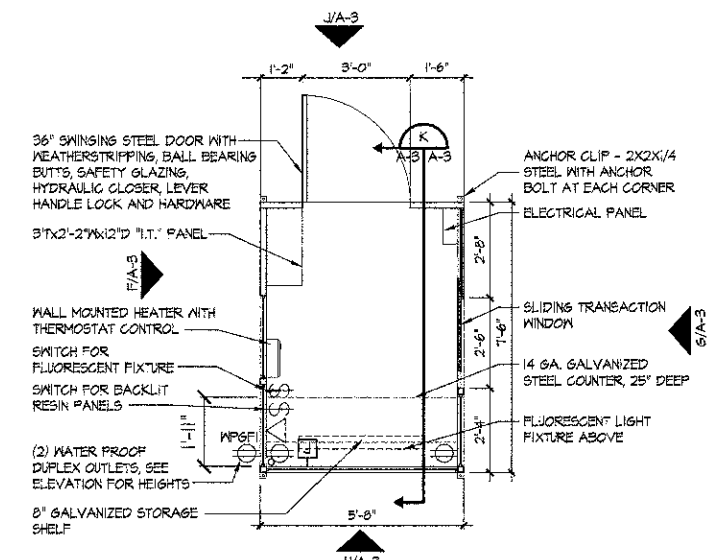
1/2" = 1'-0"



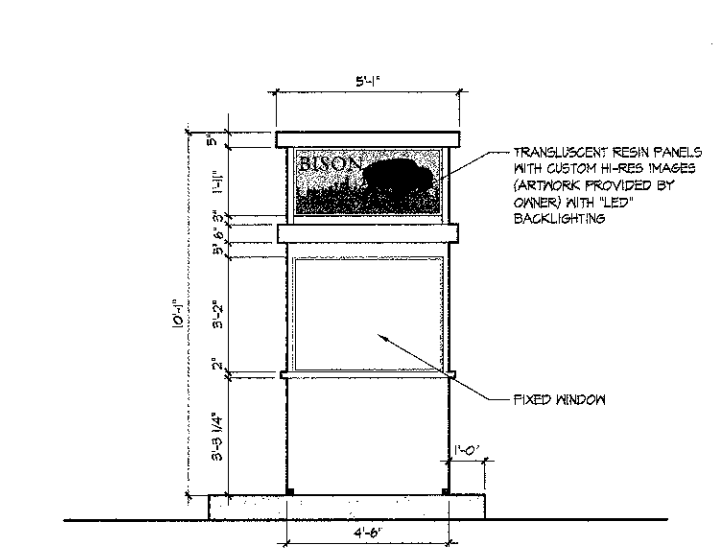
**A TYPICAL KIOSK PLAN**  
 3/8"=1'-0"



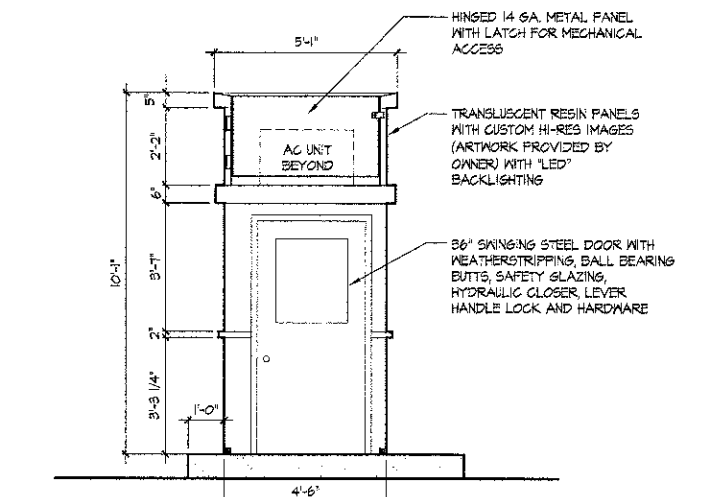
**B HANDICAP KIOSK PLAN**  
 3/8"=1'-0"



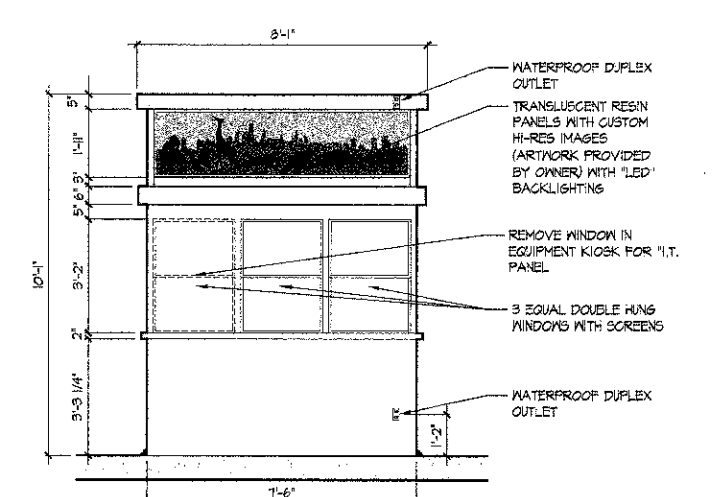
**C EQUIPMENT KIOSK PLAN**  
 3/8"=1'-0"



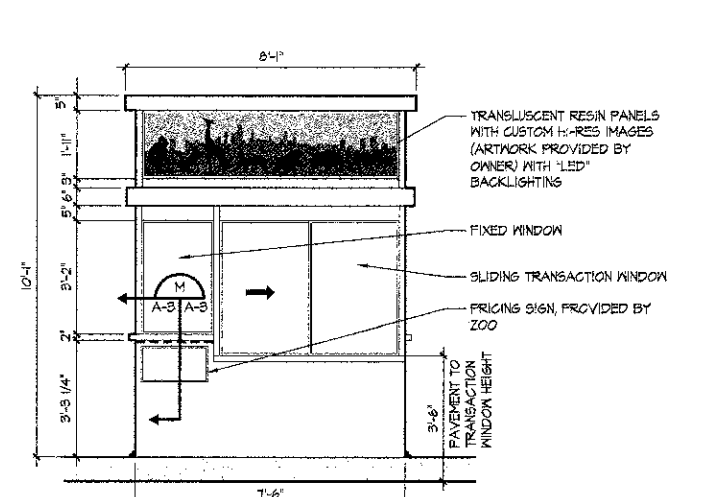
**D KIOSK FRONT ELEVATION**  
 3/8"=1'-0"



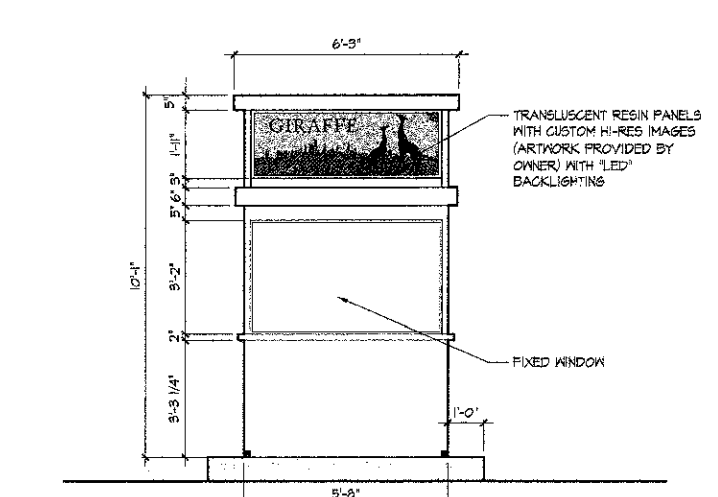
**E KIOSK REAR ELEVATION**  
 3/8"=1'-0"



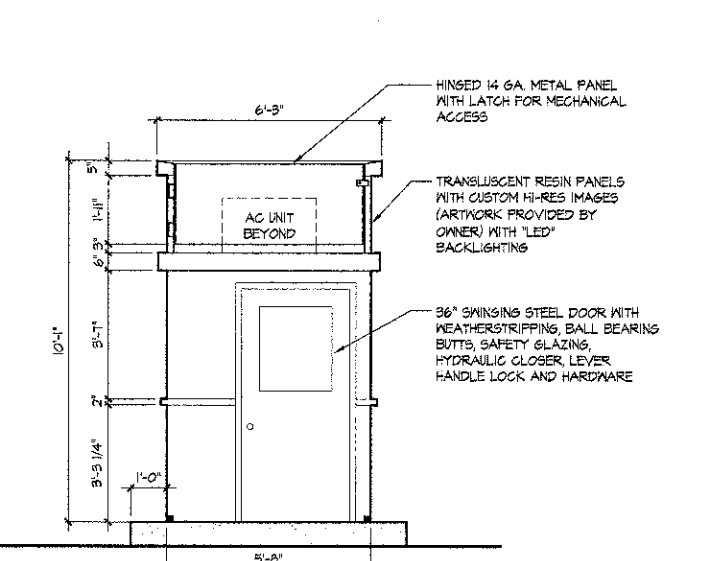
**F KIOSK SIDE ELEVATION TYPICAL**  
 3/8"=1'-0"



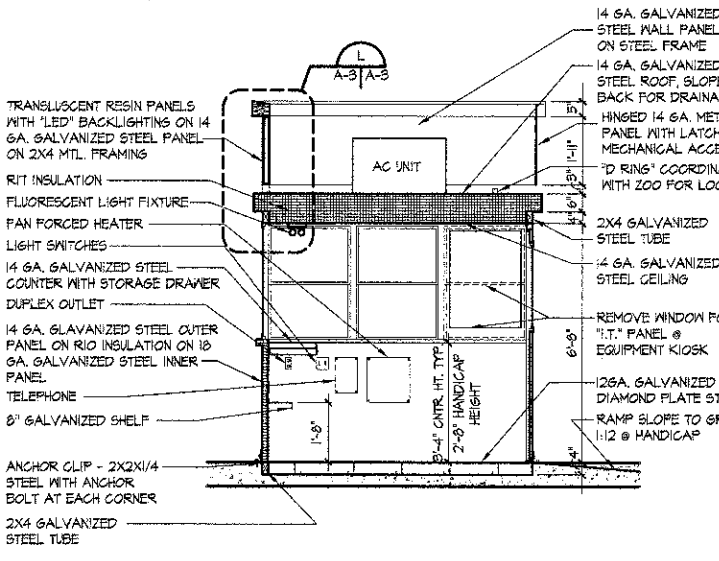
**G KIOSK SIDE ELEVATION TYPICAL**  
 3/8"=1'-0"



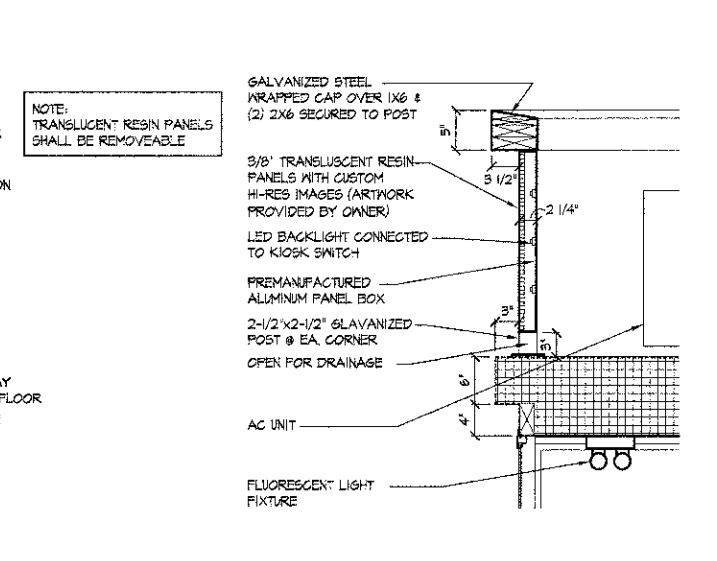
**H HNDCP. KIOSK FRONT ELEVATION**  
 3/8"=1'-0"



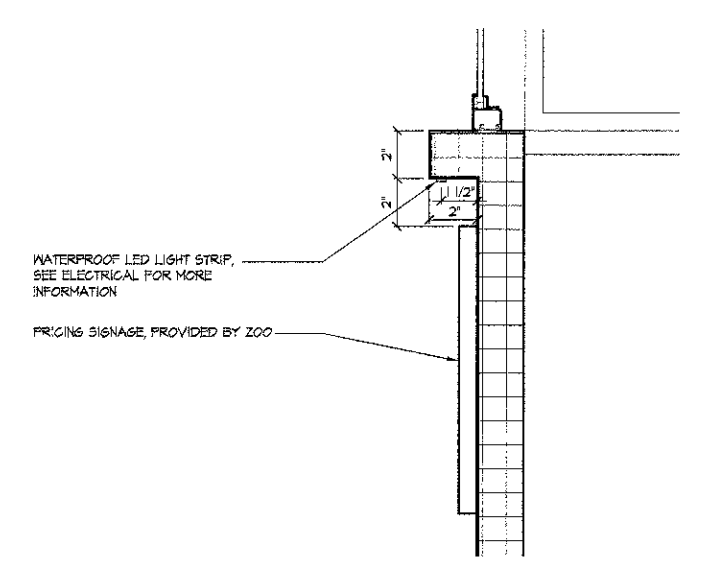
**I HNDCP. KIOSK REAR ELEVATION**  
 3/8"=1'-0"



**K KIOSK SECTION**  
 3/8"=1'-0"



**L DETAIL**  
 1"=1'-0"



**M DETAIL**  
 3"=1'-0"

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 www.thejenkinsgroup.com

DRAWN	M. LANGE	REVISED	-
DESIGNED	M. LANGE	REVISED	-
CHECKED	G. HATLESTAD	REVISED	-
DATE	10/22/2012	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO CANOPY  
 KIOSK DETAILS  
 SHEET NO. A-3

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	06-0019-00-PK	COOK	133	106

ILLINOIS FED. AID PROJECT

**DESIGN CRITERIA**

- DRAWINGS CONFORM TO ALL REQUIREMENTS OF THE FOLLOWING DOCUMENTS IN ADDITION TO OTHER STANDARDS LISTED ON THE DRAWINGS AND IN THE SPECIFICATIONS:
  - COOK COUNTY BUILDING AND ENVIRONMENTAL ORDINANCE OF 1997
  - ILLINOIS ACCESSIBILITY CODE
  - 2009 INTERNATIONAL ENERGY CONSERVATION CODE
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, THIRTEENTH EDITION (AISC-LRFD)
  - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-05)
- DESIGN LOADS:
 

LIVE LOADS:

ROOF LIVE LOAD -- 5 psf + SNOW LOAD (IBC SECTION 1607.11.2.4)

WIND LOADS:

BASIC WIND SPEED -- 90 MPH  
 IMPORTANCE FACTOR, I<sub>w</sub> -- 1.15  
 EXPOSURE CATEGORY -- C  
 ENCLOSURE CLASSIFICATION -- OPEN

SNOW LOADS:

GROUND SNOW, P<sub>G</sub> -- 25 PSF  
 IMPORTANCE FACTOR, I<sub>s</sub> -- 1.0  
 ROOF SNOW LOAD -- 20 PSF

**CONTRACTOR RESPONSIBILITIES AND COORDINATION**

- ALL FIELD WORK SHALL BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.
- MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE FLOOR LOADINGS INDICATED IN THE DRAWINGS.
- THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS, DETAILS, AND SPECIFICATIONS, FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. DO NOT ASSUME THAT EITHER THE DRAWINGS OR SPECIFICATIONS TAKE PRECEDENCE.
- SEE CIVIL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS.
- PRINCIPAL OPENING SIZES AND LOCATIONS ARE INDICATED ON THE DRAWINGS. ADDITIONAL SMALLER OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE COORDINATED BY THE CONTRACTOR.

**FOUNDATIONS**

- FOUNDATIONS HAVE BEEN DESIGNED BASED FOR AN ALLOWABLE BEARING PRESSURE OF 3000 PSF.
- PLACE FOOTINGS ON UNDISTURBED, NATURAL SUBGRADE, AS VERIFIED BY THE GEOTECHNICAL ENGINEER RETAINED BY THE OWNER. IF SUBGRADE IS DEEMED UNSUITABLE, EXTEND EXCAVATION TO SUITABLE, UNDISTURBED, NATURAL SUBGRADE AND RAISE GRADE USING COMPACTED ENGINEERED FILL OR PLAIN CONCRETE.

**REINFORCEMENT**

- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:
  - DEFORMED BARS: ASTM A615
  - WELDABLE DEFORMED BARS: ASTM A706
  - EPOXY COATED DEFORMED BARS: ASTM A615/ A775
  - WELDED WIRE FABRIC: ASTM A185
- DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS, ACI-318 AND ACI-315.
- WHERE SHEETS OF WELDED WIRE FABRIC ARE GRAPHICALLY INDICATED TO LAP, PROVIDE ACI STANDARD FULL TENSION WELDED WIRE FABRIC LAP SPLICE.
- WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCEMENT AND LAP SPLICE WITH THE MAIN REINFORCEMENT.
- REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE PROTECTION (CLEAR COVER), UON:
  - SURFACES NOT FORMED: 3"
  - FORMED SURFACES IN CONTACT WITH SOIL OR WATER OR EXPOSED TO WEATHER: 2"

**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES, UON:
  - PLATES, ANGLES: ASTM A36, F<sub>y</sub> = 36 KSI
  - HOLLOW STRUCTURAL SECTION: ASTM A500, GRADE B, F<sub>y</sub> = 46 KSI
  - ANCHOR BOLTS: ASTM A325 THREADED RODS
- FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", NINTH EDITION.

**STRUCTURAL STEEL CONNECTIONS**

- STRUCTURAL STEEL CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:
  - ANGLES: ASTM A36
  - WTs: ASTM A36
  - PLATES: ASTM A36
  - BOLTS, NUTS, WASHERS: ASTM A325 UON
  - WELD ELECTRODES: E70XX
- ALL CONNECTIONS, UNLESS INDICATED AS BEING FULLY DESIGNED ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND DETAILED BY A LICENSED STRUCTURAL ENGINEER.
- ALL SHOP AND FIELD CONNECTIONS SHALL BE BOLTED OR WELDED. SUBMITTAL FROM CONTRACTOR FOR VARIATIONS TO TYPICAL CONNECTION DETAILS WILL BE CONSIDERED.
- FOR CONNECTION DESIGN AND DETAILING, SET CONNECTION WORK POINT AT INTERSECTION OF MEMBER CENTERLINES, UON.
- ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325, UNLESS SHOWN OR NOTED OTHERWISE.
- ALL WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS AND SHALL CONFORM TO THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION", PUBLISHED BY THE AMERICAN WELDING SOCIETY.
- SEE SPECIFICATIONS FOR CONNECTION DESIGN RESPONSIBILITIES AND SUBMITTALS.
- ALL WELDED CONNECTIONS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS FOR THE SAME SIZE BEAM.
- MINIMUM WELDS, WHERE NOT SHOWN ON DRAWINGS, SHALL BE 1/4" FILLET ALL AROUND. WELDED CONNECTIONS SHALL BE BASED ON E70 ELECTRODES.
- PROVIDE VISUAL INSPECTION AND TESTING OF WELDS PER THE SPECIFICATIONS.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY BRACING TO INSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURE DURING ERECTION UNTIL PERMANENT CONNECTIONS HAVE BEEN COMPLETED.
- STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP OR WELDING.
- THERE SHALL BE NO FIELD CUTTING OF ANY STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
- STRUCTURAL FRAMING PLANS AND DETAILS ARE NOT INTENDED TO COVER ALL THE STEEL REQUIRED FOR A COMPLETE JOB. EXAMINE ALL ARCHITECTURAL DETAILS. ALL ROLLED STEEL ANGLES AND OTHER SHAPES SHOWN ON SUCH DETAILS WHICH ARE NOT SPECIFICALLY NOTED OR SPECIFIED TO BE FURNISHED AS ORNAMENTAL IRON, SHALL BE FURNISHED AS STRUCTURAL STEEL, EVEN THOUGH THEY ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

**CONCRETE**

- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 301, ACE 31, ACI 313, ACI 318, ACI 347, ACI 304.
- CONCRETE 28 DAY TEST STRENGTH AND WEIGHT SHALL BE AS FOLLOWS:
  - FOOTINGS AND PIERS -- 4,000 PSI NWC (IDOT CLASS S)
  - EXTERIOR SLABS AND CURBS -- 4,000 PSI NWC (IDOT CLASS S)
- FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN THE COMPLETED BUILDING SHALL HAVE AN ACCEPTABLY SMOOTH SURFACE. SEE SPECIFICATIONS.
- CONCRETE PROTECTION FOR REINFORCEMENT BARS, UNLESS SHOWN OR NOTED OTHERWISE, SHALL BE AS FOLLOWS:
  - EXTERIOR SLABS -- 1" CLEAR

**PERFORMANCE ITEMS**

- EMPLOY OR RETAIN A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE TO DESIGN AND DETAIL THE FOLLOWING STRUCTURAL COMPONENTS:
  - 05120 STRUCTURAL STEEL CONNECTIONS
- TYPICAL DETAILS INDICATE GENERAL CRITERIA FOR DESIGN AND DETAILING OF CONNECTIONS. TYPICAL DETAILS ARE NOT INTENDED TO CONVEY COMPLETE CONNECTOR SIZES, PLATE SIZES, WELD SIZES, NUMBER OF BOLTS, OR ANOTHER SPECIFIC INFORMATION THAT IS OBTAINED THROUGH DESIGNING OF AN INDIVIDUAL CONNECTION FOR A GIVEN SET OF LOADS

**FRAMING LUMBER**

- ALL WOOD FRAME CONSTRUCTION SHALL CONFORM TO THE STANDARDS OF IBS AND NDS AS A MINIMUM REQUIREMENT. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:
  - ROOF DECKING (2x6): DOUGLAS FIR NO. 1  
MINIMUM BASE VALUE: FB=1350 PSI

ENGINEERED LUMBER MEMBERS SHALL BE MANUFACTURED UNDER A PROCESS BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY
- GLULAM LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ANSI/AITC A190.1 AND ASTM D3737. ALL MEMBERS SHALL BE 24F-V5 SP/SP WITH THE FOLLOWING PROPERTIES:
  - FBX = 2400 PSI E= 1,500,000 PSI
  - FBY = 1750 PSI EMIN = 780,000 PSI
  - FT = 1,150 PSI FC = 1,650 PSI
  - FVX = 300 PSI FVY = 260 PSI
- ALL HANGERS AND OTHER HARDWARE SHALL WITH STAND A MINIMUM UPLIFT LOAD OF 20 PSF.

**INDEX OF SHEETS**

S1.0	STRUCTURAL GENERAL NOTES
S2.0	FOUNDATION PLAN
S3.0	CANOPY FRAMING PLAN
S4.0	SOIL BORING LOGS

TOTAL BILL OF MATERIAL		
ITEM	UNIT	TOTAL
FURNISHING AND ERECTING CANOPY STRUCTURE	L. SUM	1

**ABBREVIATIONS**

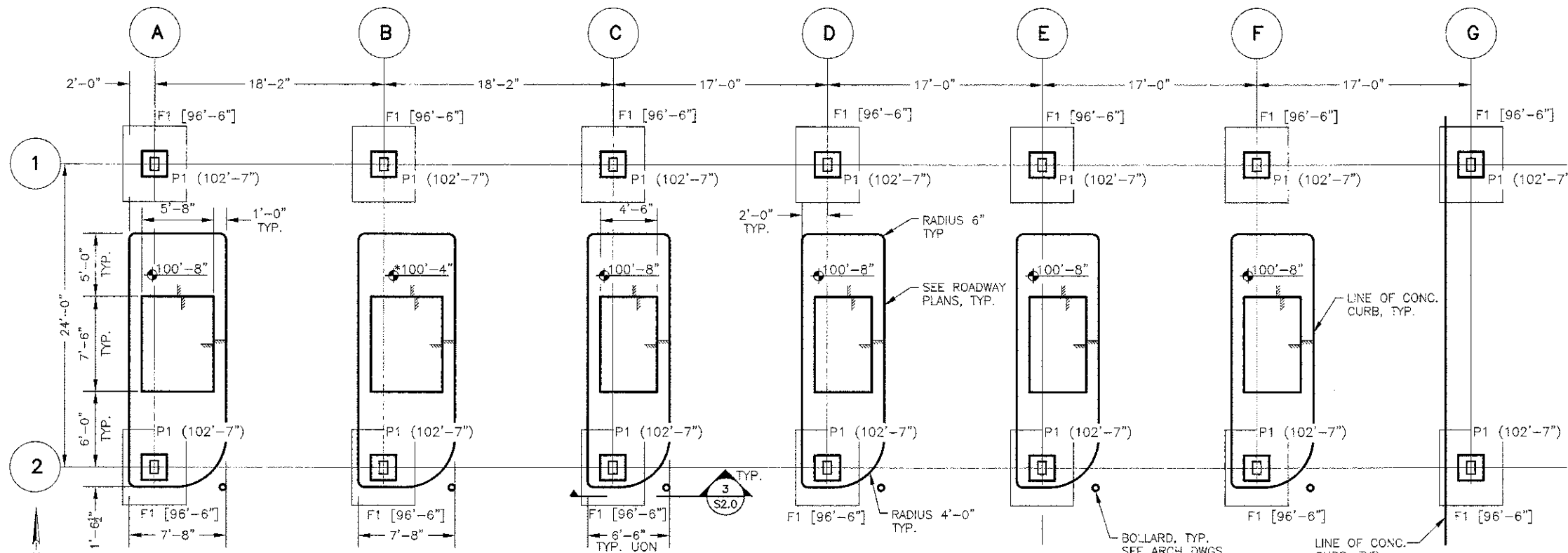
ARCH	ARCHITECT OR ARCHITECTURAL
B/	BOTTOM OF
BOT	BOTTOM
CHP	CAST-IN-PLACE
CL	CENTERLINE
CLR	CLEAR OR CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DL	DEAD LOAD
EA	EACH
EF	EACH FACE
EL	ELEVATION
ENGR	ENGINEER
EQ	EQUAL
EW	EACH WAY
EXP	EXPANSION
EXST	EXISTING
EXT	EXTERIOR
FND	FOUNDATION
FTG	FOOTING
GALV	GALVANIZED
GR	GRADE
HORZ	HORIZONTAL
INT	INTERIOR
JT	JOINT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
UON	UNLESS OTHERWISE NOTED

\$USER\$ \$DATE\$ \$TIME\$ \$FILE\$

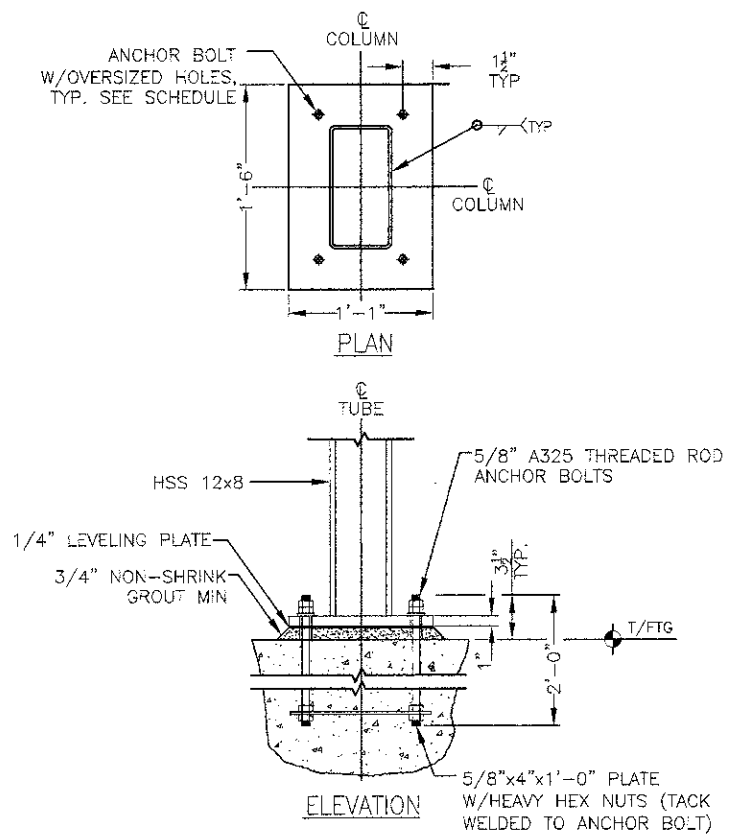


DRAWN	- M. LANGE	REVISED	-
DESIGNED	- M. LANGE	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 10/22/2012	REVISED	-

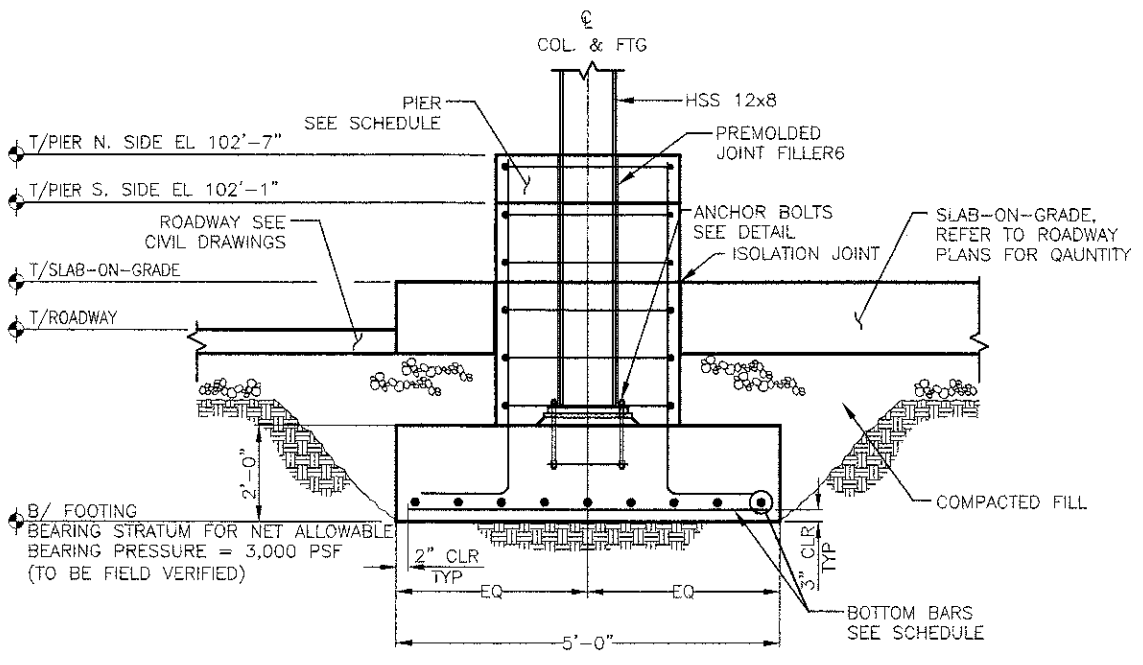




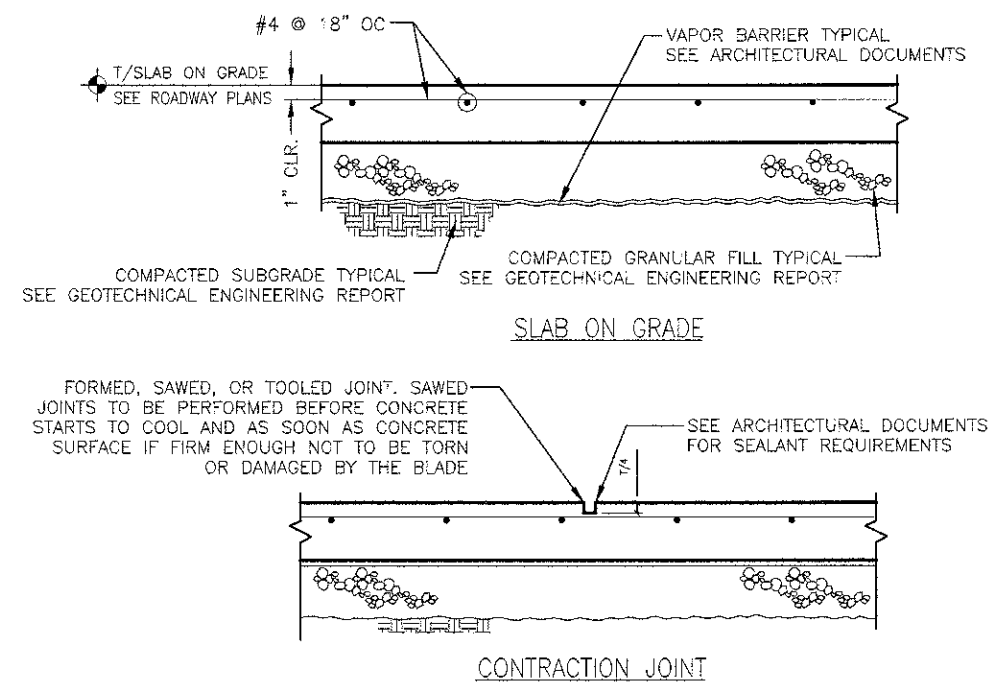
**1 FOUNDATION PLAN**  
 SCALE: 3/16" = 1'-0"  
 \* REFER TO ROADWAY PLANS FOR HANDICAP RAMP LOCATION AND DETAILS



**2 TYPICAL COLUMN BASE**  
 NOT TO SCALE



**3 TYPICAL ISOLATED FOOTING**  
 NOT TO SCALE



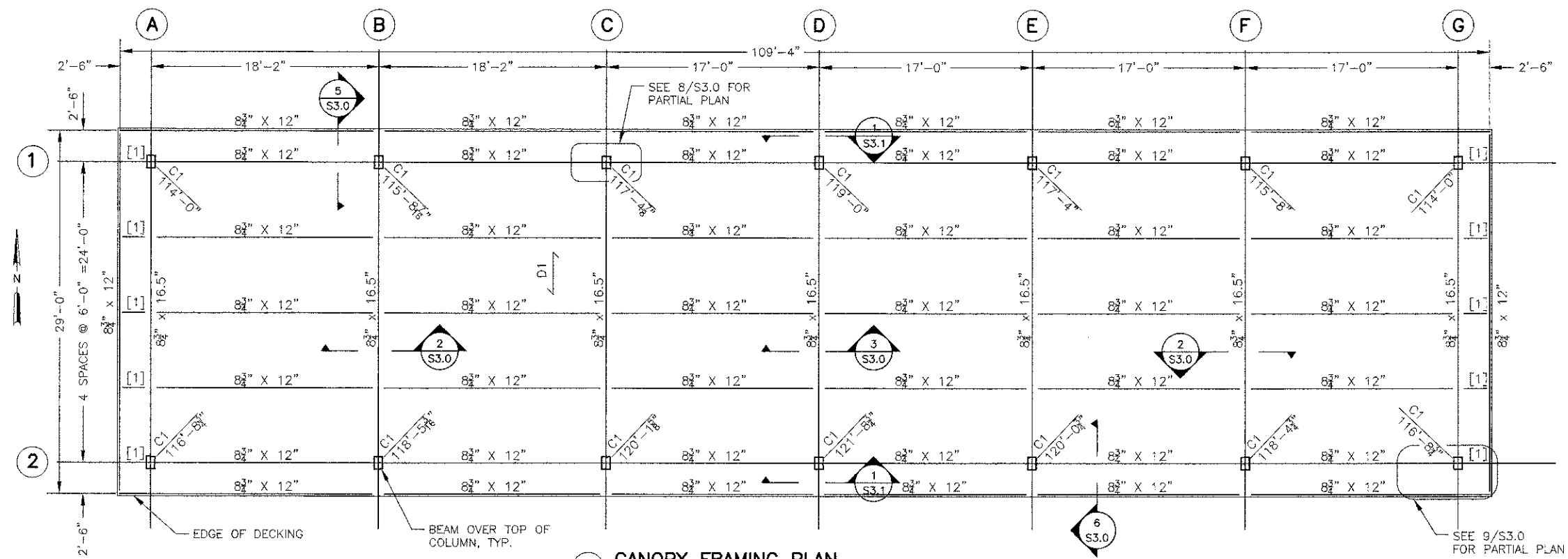
**4 TYPICAL SLAB ON GRADE DETAILS**  
 NOT TO SCALE  
 SLAB-ON-GRADE AROUND KIOSK IS INCLUDED IN THE ROADWAY PAY ITEMS

FOOTING SCHEDULE				
MARK	SIZE	SHORT BARS BOTTOM BARS	LONG BARS BOTTOM	NOTES
F1	6'-0" x 5'-0" x 2'-0"	6-#5	5-#5	EPOXY COATED

PIER SCHEDULE					
MARK	SIZE	VERTICAL BARS	TIES	DOWELS	NOTES
P1	24" x 24"	16-#5	#4@10"	10-#5	EPOXY COATED

- NOTES:
- XXX'-X" INDICATES T/ SLAB-ON-GRADE ELEVATION.
  - [96'-6"] INDICATES B/FTG ELEVATION
  - (102'-7") INDICATES T/ PIER ELEVATION ON N. SIDE (102'-1") INDICATES T/ PIER ON S. SIDE (NOT SHOWN ON PLANS)
  - INDICATES A 4" DEPRESSION AT KIOSK

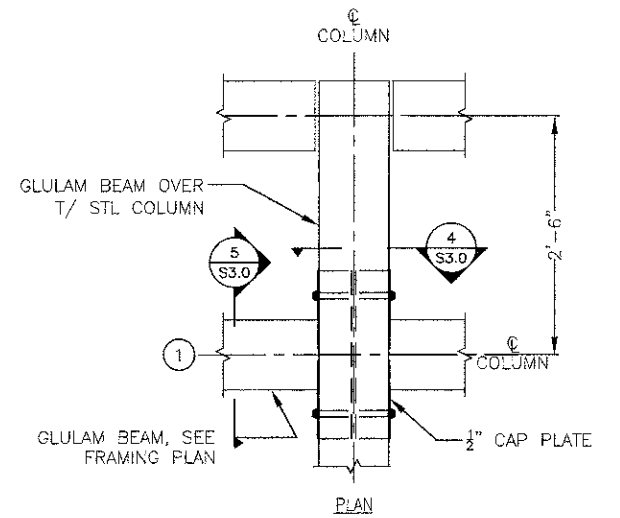
- NOTES:**
- D1 INDICATES 2x6 LAMINATED DECKING.
  - C1 INDICATES COLUMN HSS 12x8x8
  - XXX'-X" INDICATES TOP OF STEEL TAKEN AT CENTERLINE OF COLUMN AT THE TOP OF THE CAP PLATE
  - ALL CANOPY FRAMING SHALL BE GLUED LAMINATED TIMBER, 24F-V5 SP/SP.
  - [1] INDICATES 8 3/4"x12" 24F-V5 SP/SP
  - \* INDICATES THE MIN. DIMENSION FOR MEMBER. GLULAMS CAN BE BUILT UP FOR ROOF SLOPE.
  - COLUMNS TO BE GALVANIZED AND PAINTED HARTFORD GREEN.
  - SIMPSON STRONG TIE CONNECTIONS SHALL BE PAINTED BLACK.



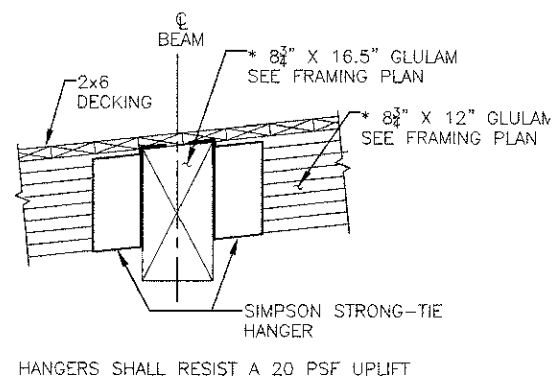
**1 CANOPY FRAMING PLAN**  
SCALE: 3/16" = 1'-0"

**GLUED LAMINATED TIMBER CONNECTION FORCES**

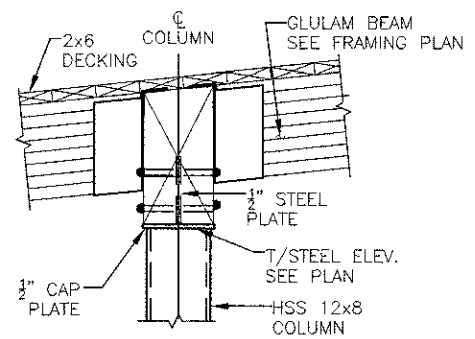
MEMBER	SERVICE SHEAR	FACTORED SHEAR
8 3/4" X 12"	6 (K)	9 (K)
8 3/4" X 16 1/2"	15 (K)	22 (K)



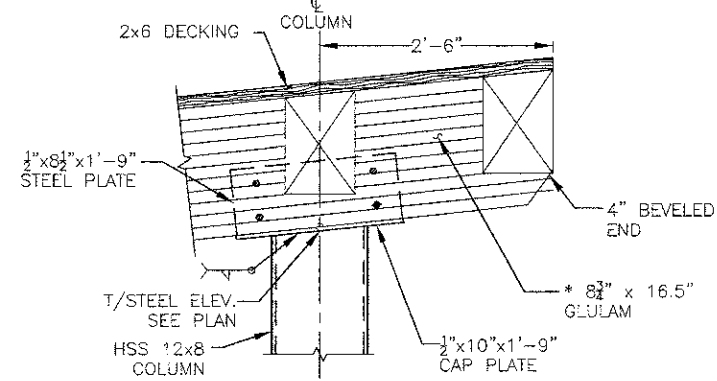
**8 PARTIAL FRAMING PLAN**  
SCALE: 1" = 1'-0"



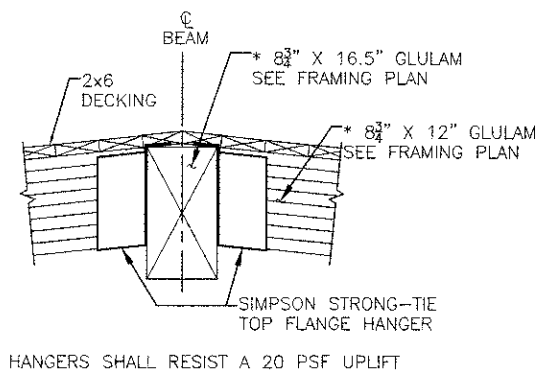
**2 GLULAM TO GLULAM CONNECTION**  
SCALE: 1" = 1'-0"



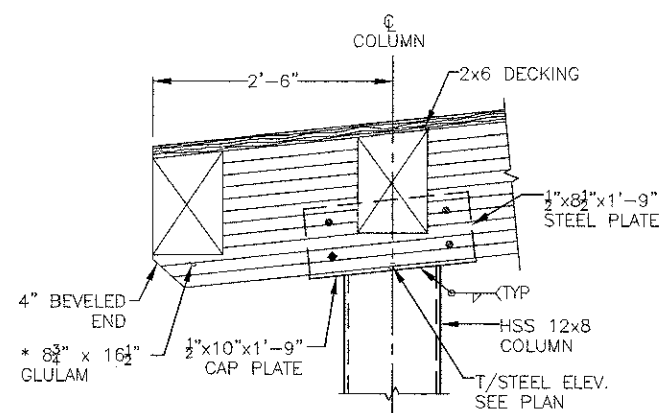
**4 COLUMN TO BEAM CONNECTION**  
SCALE: 1" = 1'-0"



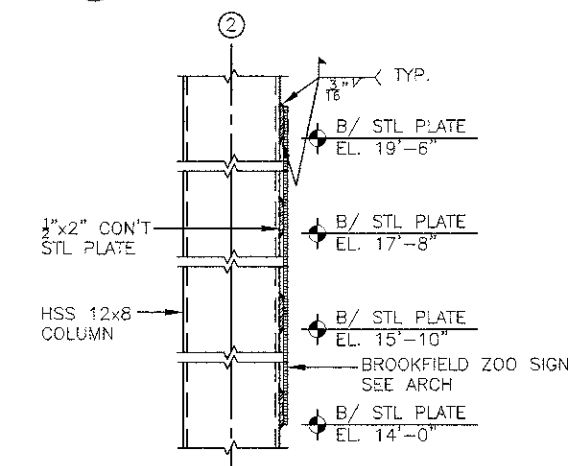
**6 COLUMN TO BEAM CONNECTION**  
SCALE: 1" = 1'-0"



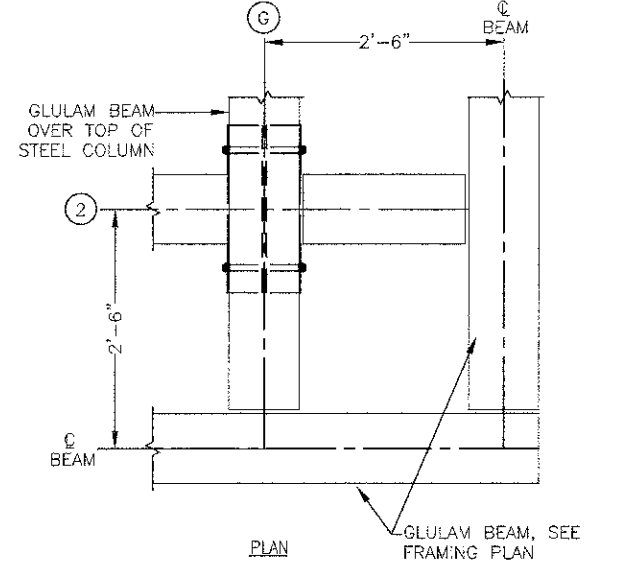
**3 GLULAM TO GLULAM CONNECTION**  
SCALE: 1" = 1'-0"



**5 COLUMN TO BEAM CONNECTION**  
SCALE: 1" = 1'-0"



**7 ZOO SIGN CONNECTION PLATES**  
SCALE: 1" = 1'-0"



**9 PARTIAL FRAMING PLAN - CORNER**  
SCALE: 1" = 1'-0"

FILES \$  
TIME \$  
DATE \$

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

DRAWN - M. LANGE	REVISED -
DESIGNED - M. LANGE	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BROOKFIELD ZOO CANOPY  
CANOPY FRAMING PLAN

SHEET NO. S3.0

P.A.U. RTE. 3784	SECTION 06-0019-00-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 109
CONTRACT NO.				

ILLINOIS FED. AID PROJECT

MSET PROJECT NO.: 11390		LOG OF BORING NO. B-1		Page 1 of 1					
PROJECT: Brookfield Zoo Entrance Improvements			SITE LOCATION: Brookfield, Illinois						
BORING LOCATION: Pavement South of Booths			CLIENT: Civitech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	MATERIAL DESCRIPTION	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	No.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
		Ground Surface	0.0						
		Pavement Materials, 5" AC/3" GBC							
		Black Silty CLAY TOPSOIL	-0.7	1a	5	34	1.50		
		Olive Grey Silty CLAY, A-7-6(29) very stiff	-1.7	1b	7	28	88	1.90	
		Brown & Grey Silty CLAY LOAM A-6, hard	-3.0	SS	2	15	18	110	6.40
				SS	3	22	20	102	3.95
		Grey Silty CLAY, A-6 very stiff	-8.0	SS	4	15	17	112	2.95
		End of Boring @ 10 feet	-10.0						

WATER LEVEL OBSERVATIONS, ft.  
 During Drilling:  none  
 Immediately After Drilling:  dry  
 Delayed Reading After Days:  NA



BORING STARTED: 9/29/11  
 BORING COMPLETED: 9/29/11  
 LOGGED BY: SPE  
 BORING METHOD: CFA

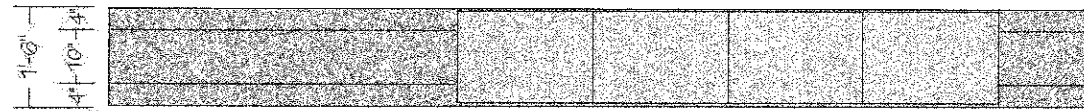
MSET PROJECT NO.: 11390		LOG OF BORING NO. B-2		Page 1 of 1					
PROJECT: Brookfield Zoo Entrance Improvements			SITE LOCATION: Brookfield, Illinois						
BORING LOCATION: North of Entrance Booths			CLIENT: Civitech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	MATERIAL DESCRIPTION	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	No.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
		Ground Surface	0.0						
		Pavement Materials, 8.5" AC/2.5" GBC							
		Black Silty CLAY TOPSOIL	-0.9	1a	6	31	1.50		
		Olive Grey Silty CLAY, A-7-6 very stiff	-1.4	1b	9	30	86	1.78	
		Brown & Grey Silty CLAY LOAM, A-6, hard	-3.0	SS	2	11	19	100	3.84
				SS	3	20	18	109	6.82
		Brown-Grey with few intermittent Silt seams		SS	4	19	20	4.00	Qp
		End of Boring @ 10 feet	-10.0						

WATER LEVEL OBSERVATIONS, ft.  
 During Drilling:  None  
 Immediately After Drilling:  Dry  
 Delayed Reading After Days:  NA

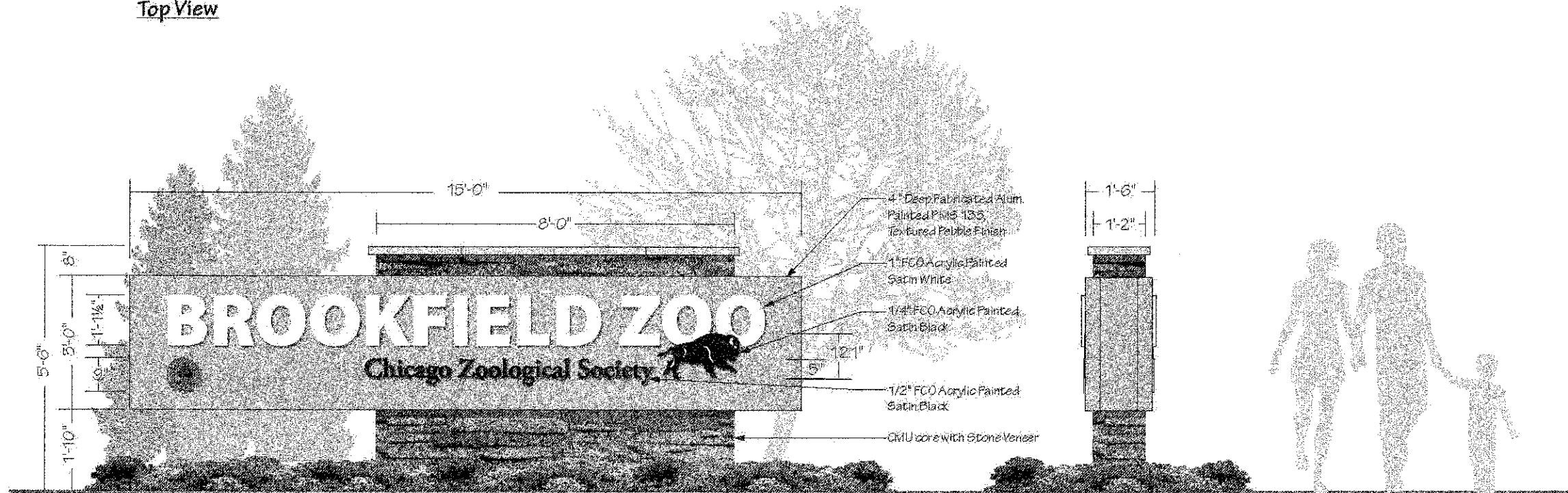


BORING STARTED: 9/29/11  
 BORING COMPLETED: 9/29/11  
 LOGGED BY: SPE  
 BORING METHOD: CFA

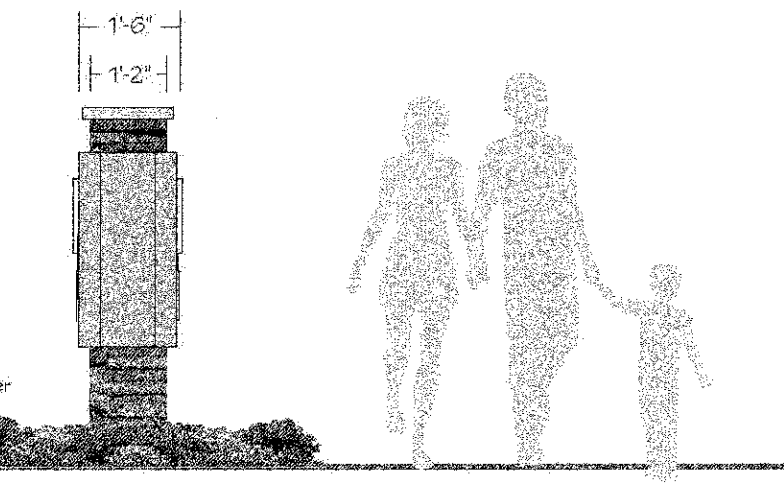
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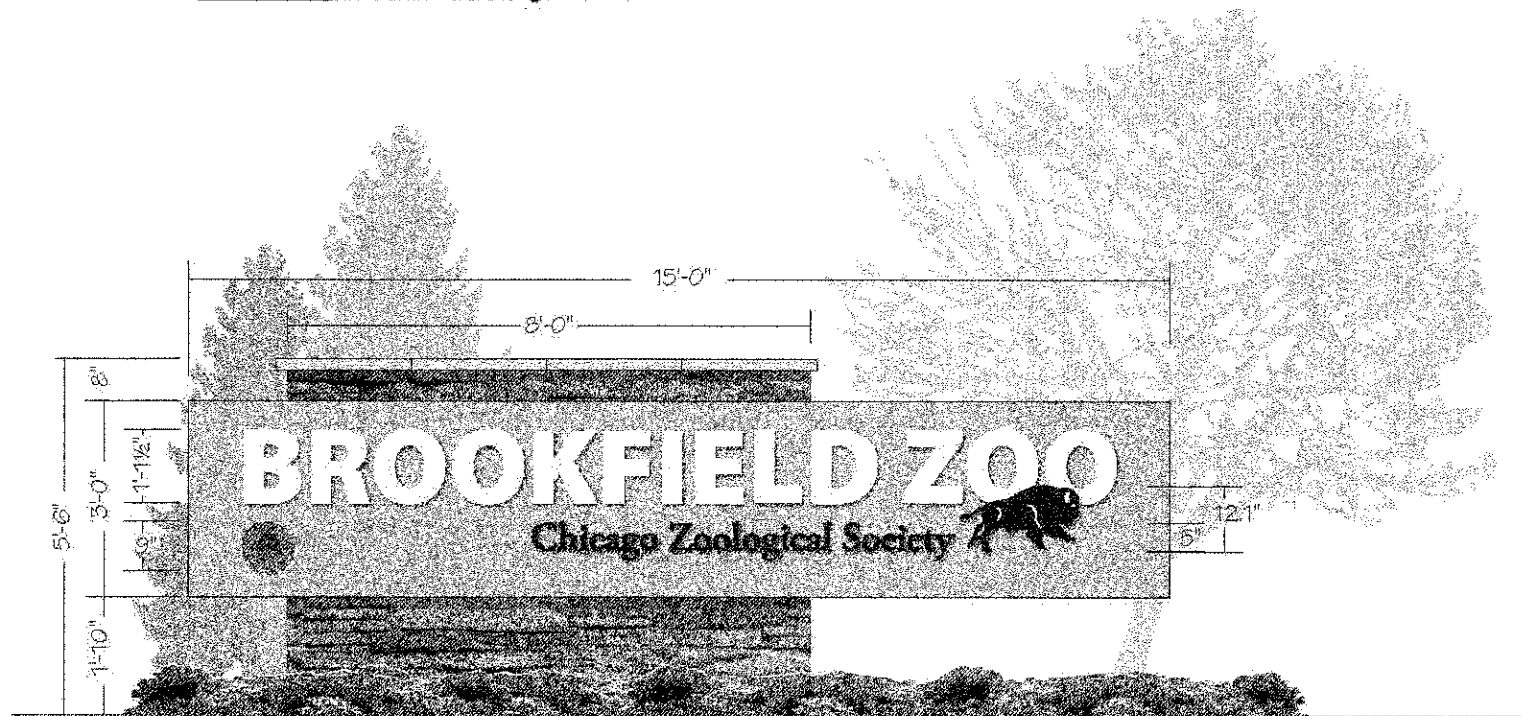
Top View



North Elevation - Looking South



End Elevation

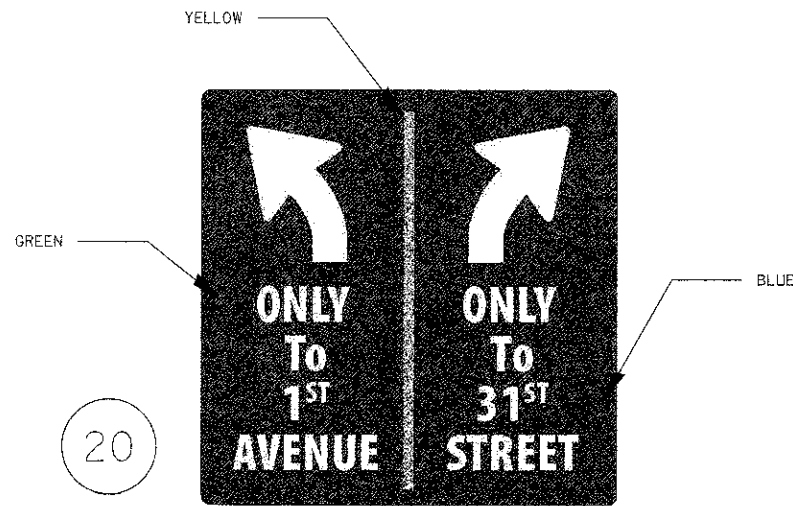


South Elevation - Looking North

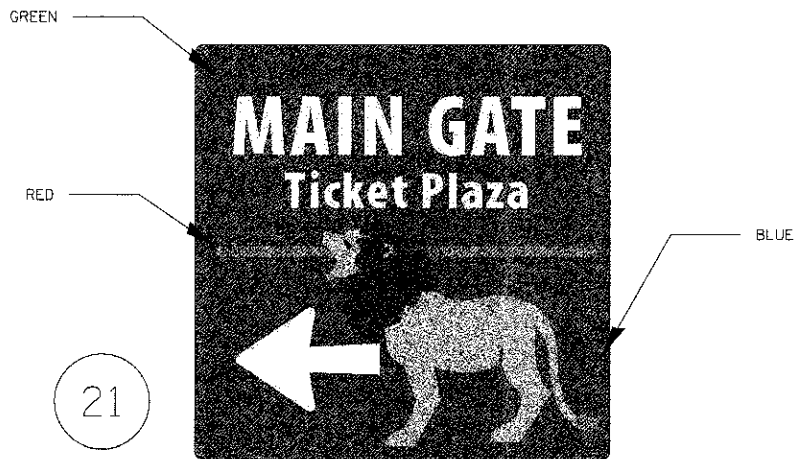
**(1) 3'-0" x 15'-0" Double Face Non-Illuminated Monument Sign**

- Panel:** 4" Deep Fabricated Aluminum Painted PMS 135, Textured Pebble Finish
- Filler Panel:** Fabricated Aluminum Painted PMS 135, Textured Pebble Finish
- "Brookfield Zoo":** 1" FCO Acrylic Painted Satin White - Mounted Flush to Panel
- Emblem:** 1/2" FCO Acrylic Painted Satin White with Digitally Printed Graphics Applied - Mounted Flush to Panel
- "Chicago Zoological Society":** 1/2" FCO Acrylic Painted Satin Black - Mounted Flush to Panel
- Bison:** 1/4" FCO Acrylic Painted Satin Black with Satin White Details - Mounted on Top of 1" Acrylic Letters - All Contour Cut into 1" Acrylic with a 1/4" Acrylic Bison Overlay
- Panel Mounting:** Flush to Masonry Wall
- Masonry Wall:** CMU core with Stone Veneer & Limestone Cap - Trenched Concrete Foundation

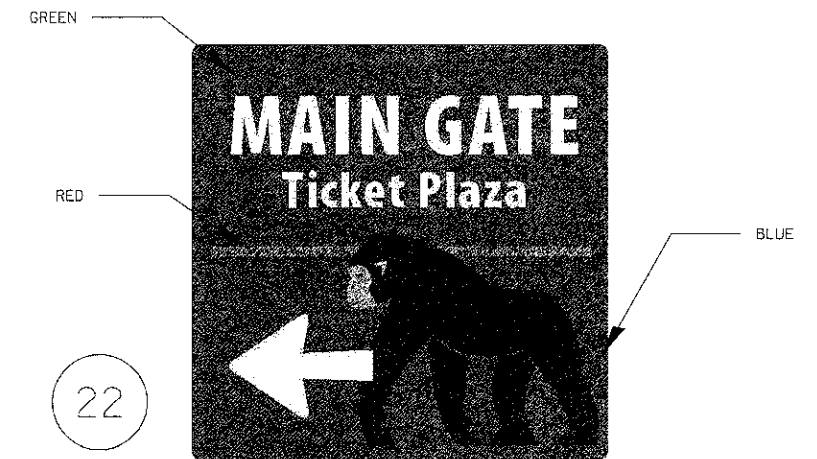
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PLOT SCALE = 1:10000 / in.	CHECKED - BRIAN NEWTON	REVISED -	DATE - 10/22/2012		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 63764</b>		
PLOT DATE = 11/14/2012	DATE - 10/22/2012	REVISED -						FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			



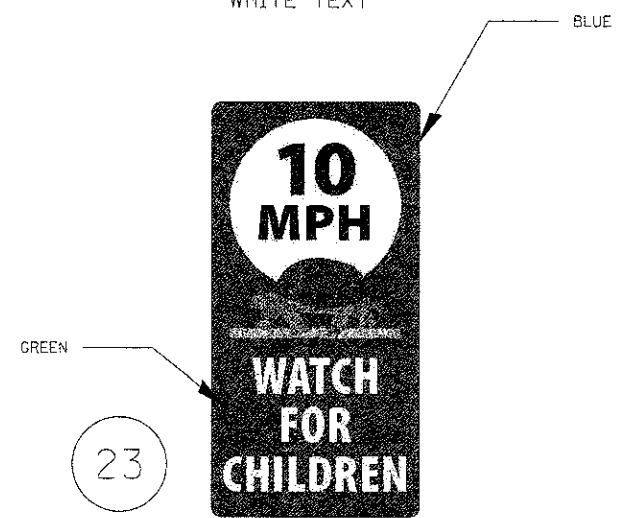
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DOUBLE POST  
WHITE TEXT



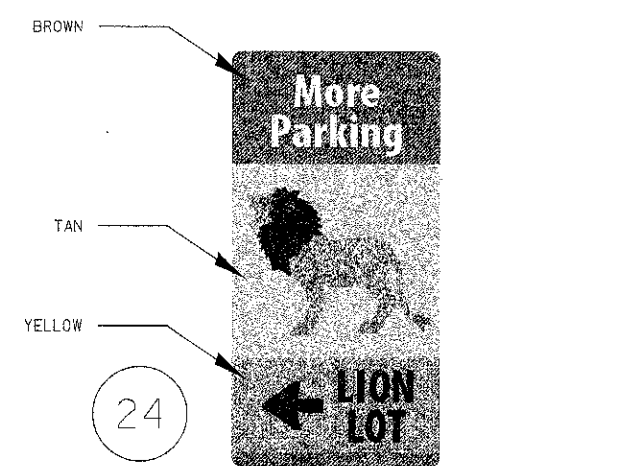
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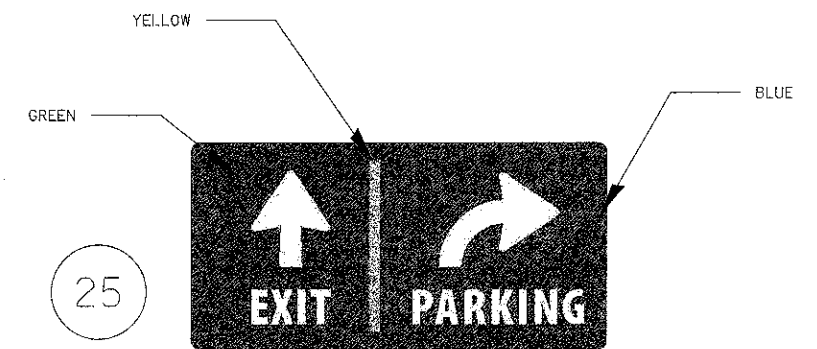
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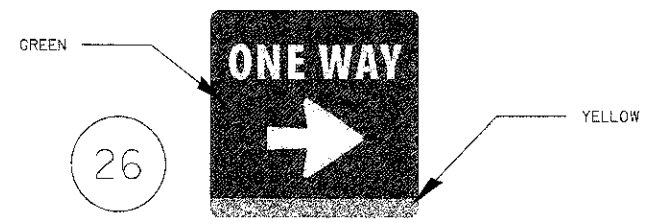
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SINGLE POST  
TOP - BLACK TEXT / BOTTOM - WHITE TEXT



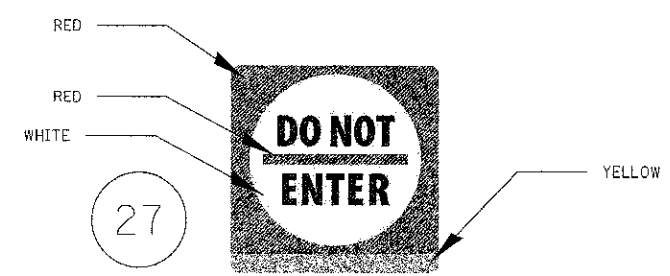
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SINGLE POST  
TOP - WHITE TEXT / BOTTOM - BLACK TEXT



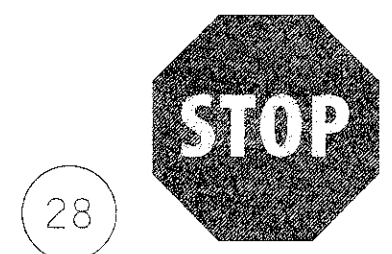
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DOUBLE POST  
WHITE TEXT



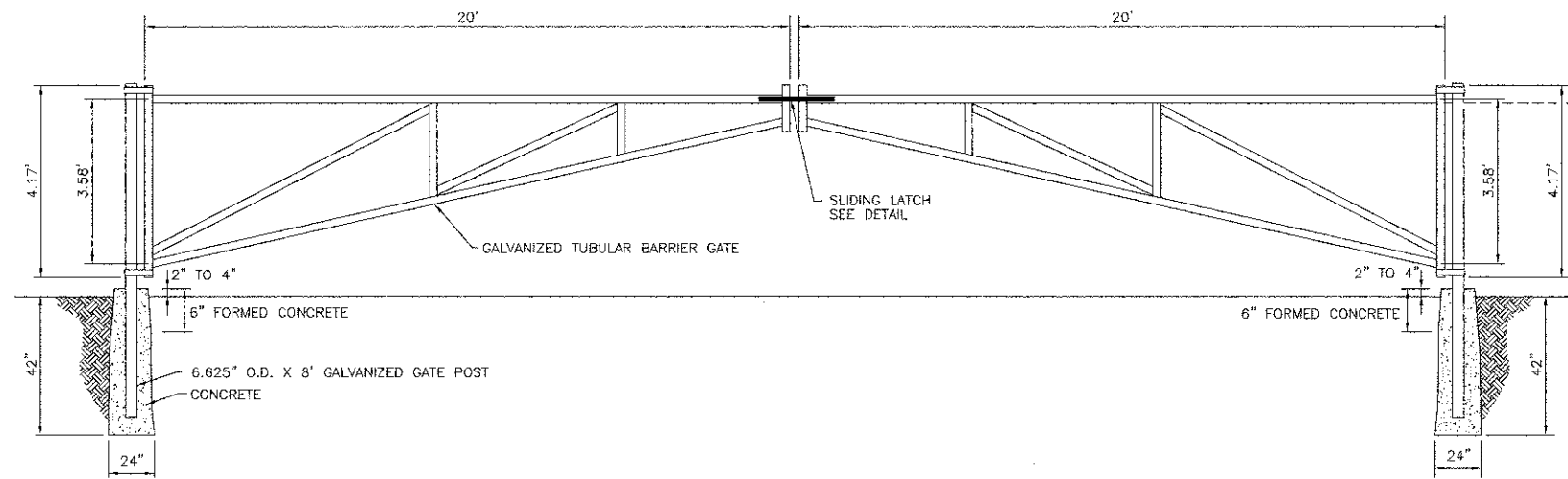
DIMENSIONS: 22" X 22"  
SINGLE POST  
WHITE TEXT



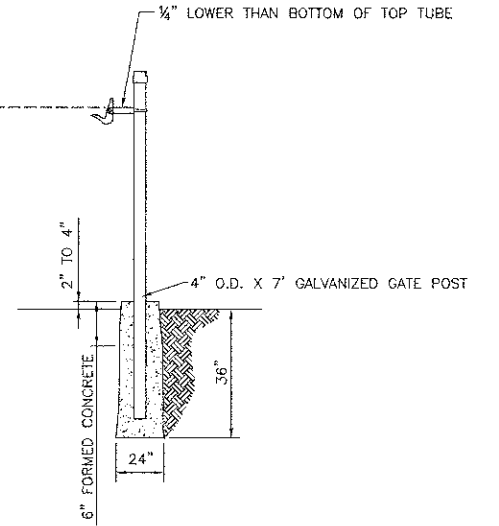
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SINGLE POST  
BLACK TEXT



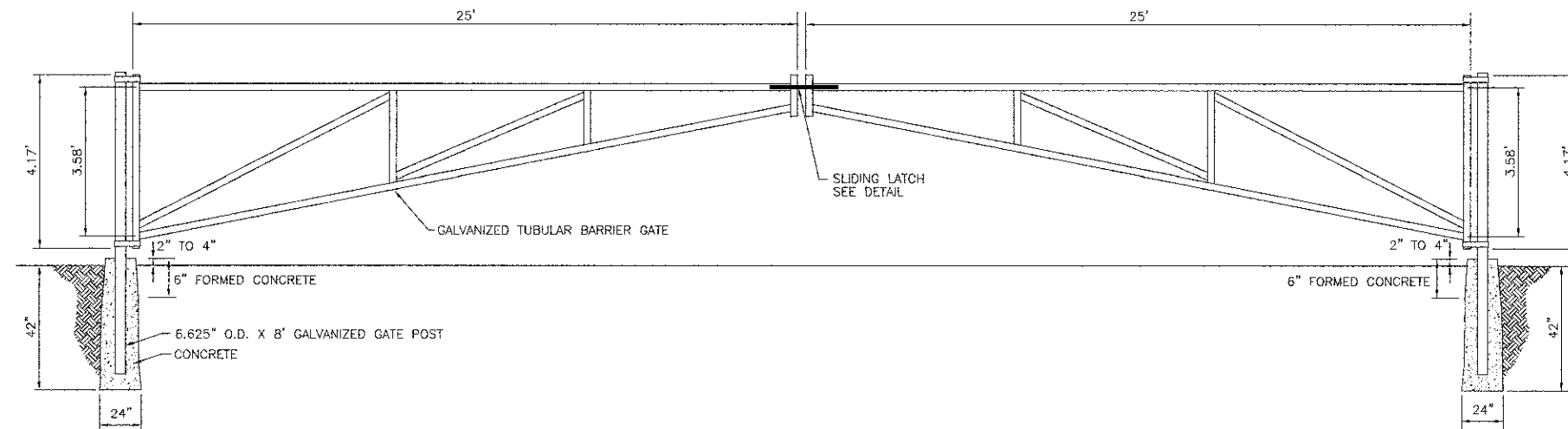
STANDARD STOP SIGN  
SINGLE POST



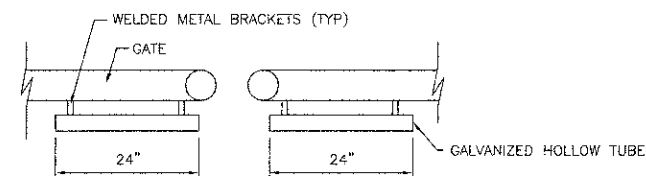
**ACCESS GATE, DOUBLE, 40 FOOT**  
NOT TO SCALE



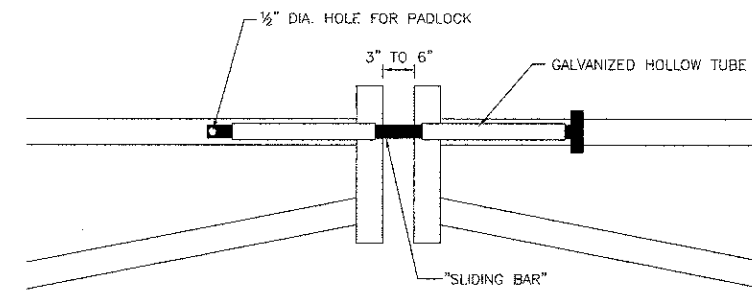
**GATE STOP POST**  
NOT TO SCALE  
GATE STOP POST SHALL BE INCLUDED  
IN THE COST OF THE ACCESS GATE



**ACCESS GATE, DOUBLE, 50 FOOT**  
NOT TO SCALE



**TOP VIEW**



**FRONT VIEW**

**SLIDING LATCH**  
NOT TO SCALE

**NOTES**

1. THE SLIDING BAR SHALL HAVE ENOUGH LENGTH TO SLIDE THROUGH BOTH HOLLOW TUBES TO ALLOW FOR THE DRILLED HOLE TO BE EXPOSED ALLOWING A PADLOCK TO LOCK THE BAR IN PLACE.
2. THE COST OF THE SLIDING LATCH SHALL BE INCLUDED IN THE COST OF THE ACCESS GATE.
3. POST HOLES SHALL BE EXCAVATED TO FLARE OUTWARDS AS THE HOLE DEEPENS.

FILE NAME =  
...\\cheat\Details\2563\_DET.03.dgn

USER NAME = dte  
PLOT SCALE = 50.0000 / / in.  
PLOT DATE = 11/29/2012

DESIGNED - DTE  
DRAWN - DTE  
CHECKED - GAB  
DATE - 10/22/2012

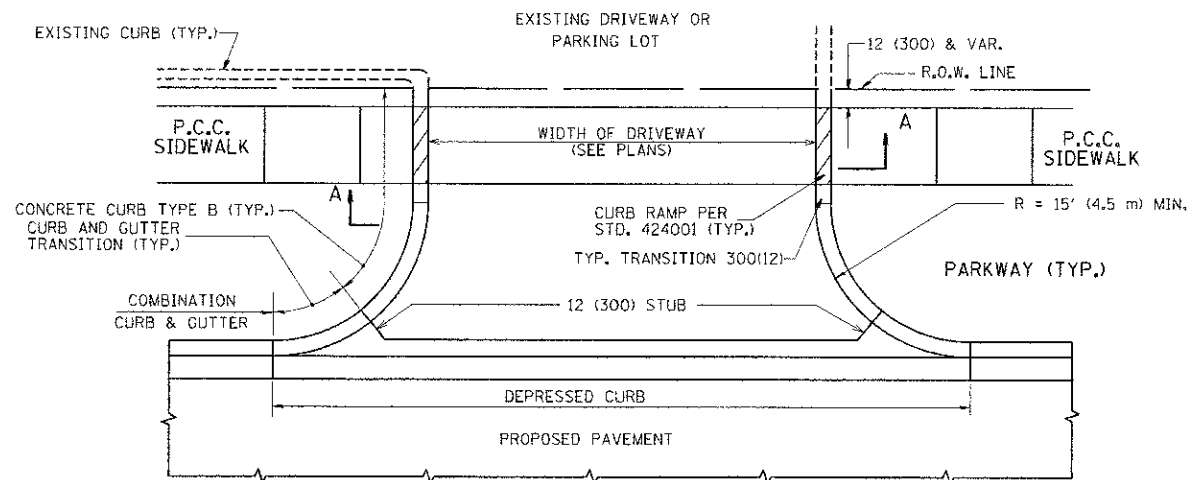
REVISED -  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

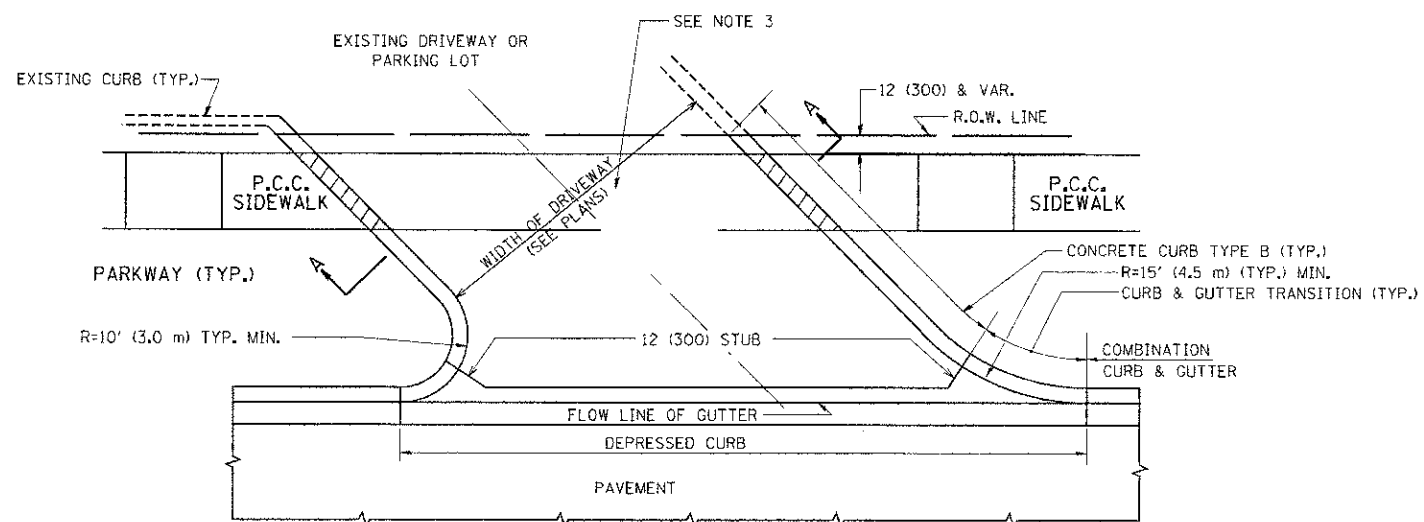
**DETAILS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

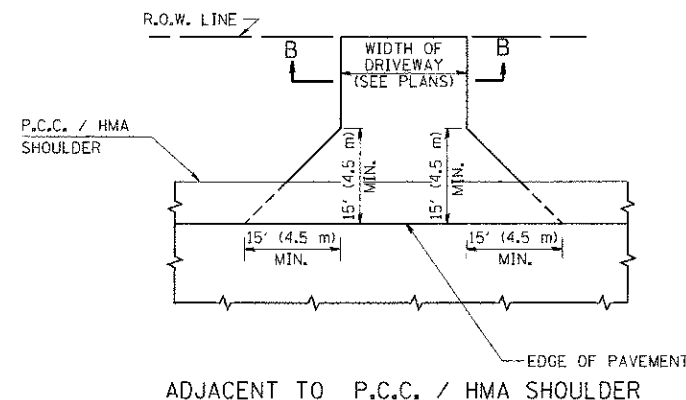
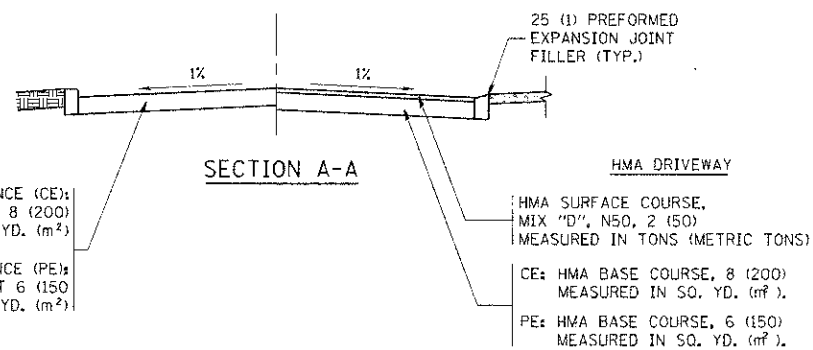
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	MCHENRY	133	113
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			<b>CONTRACT NO. 63764</b>	



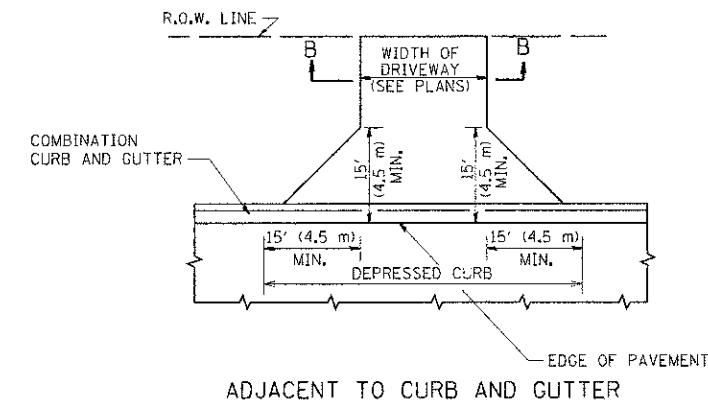
WITH CONCRETE CURB, TYPE B



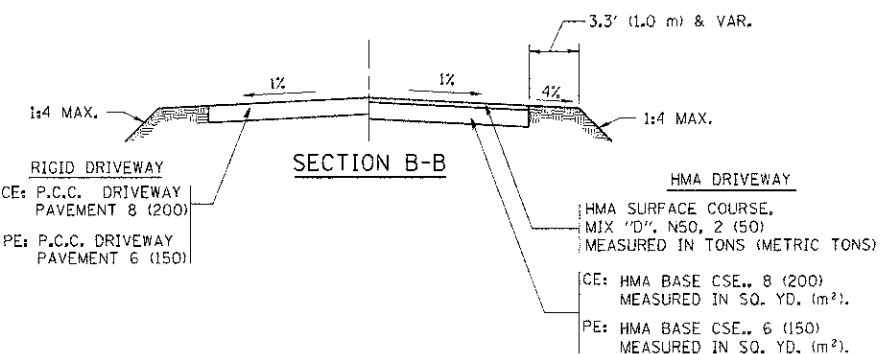
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

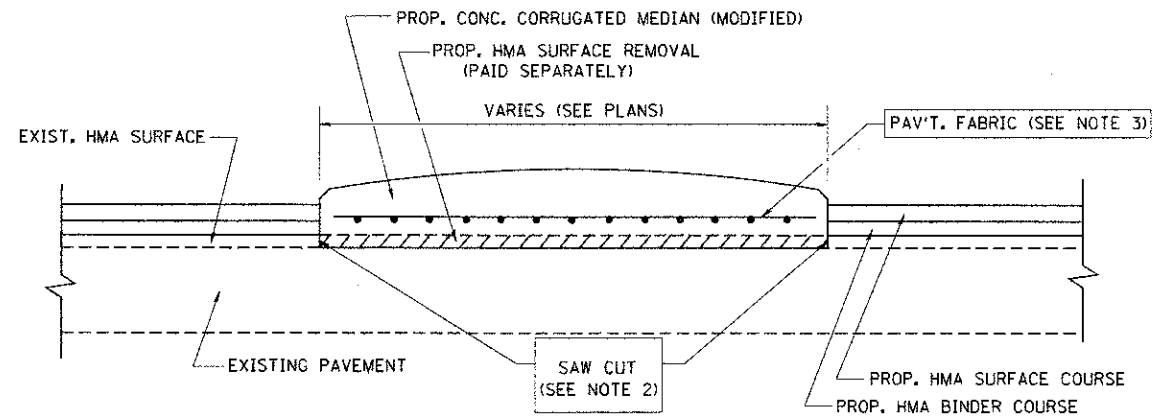
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

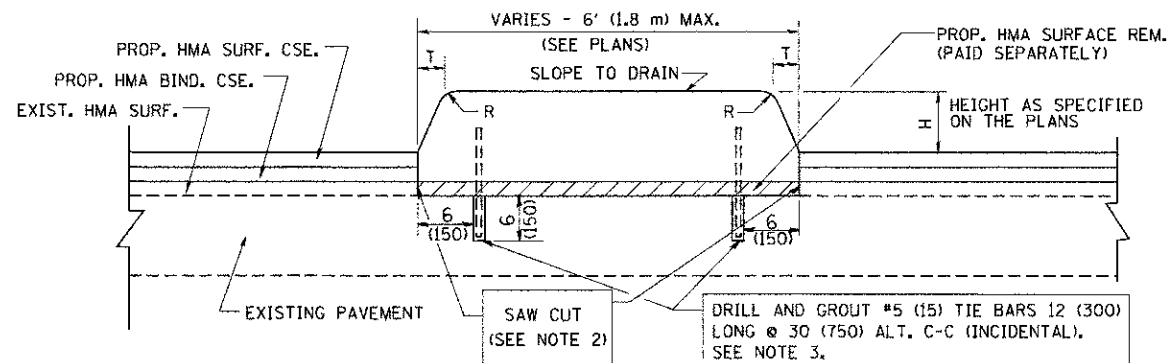
FILE NAME =	USER NAME = lcyss	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\p\adot\lcyss\10100310\bd01.dwg	PLOT SCALE = 1/8"=1'-0"	DRAWN -	REVISED - R. BORO 01-01-07			3784	12-F3000-23-PK	MCHENRY	133	114
PLOT DATE = 9/6/2011	DATE = 11-04-95	CHECKED -	REVISED - R. BORO 06-11-08			<b>BD0156-07 (BD-01)</b>		<b>CONTRACT NO. 63764</b>		
			REVISED - R. BORO 09-06-11			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
  2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
  3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

### DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
  2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
  3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

### DETAILS FOR CONCRETE MEDIAN

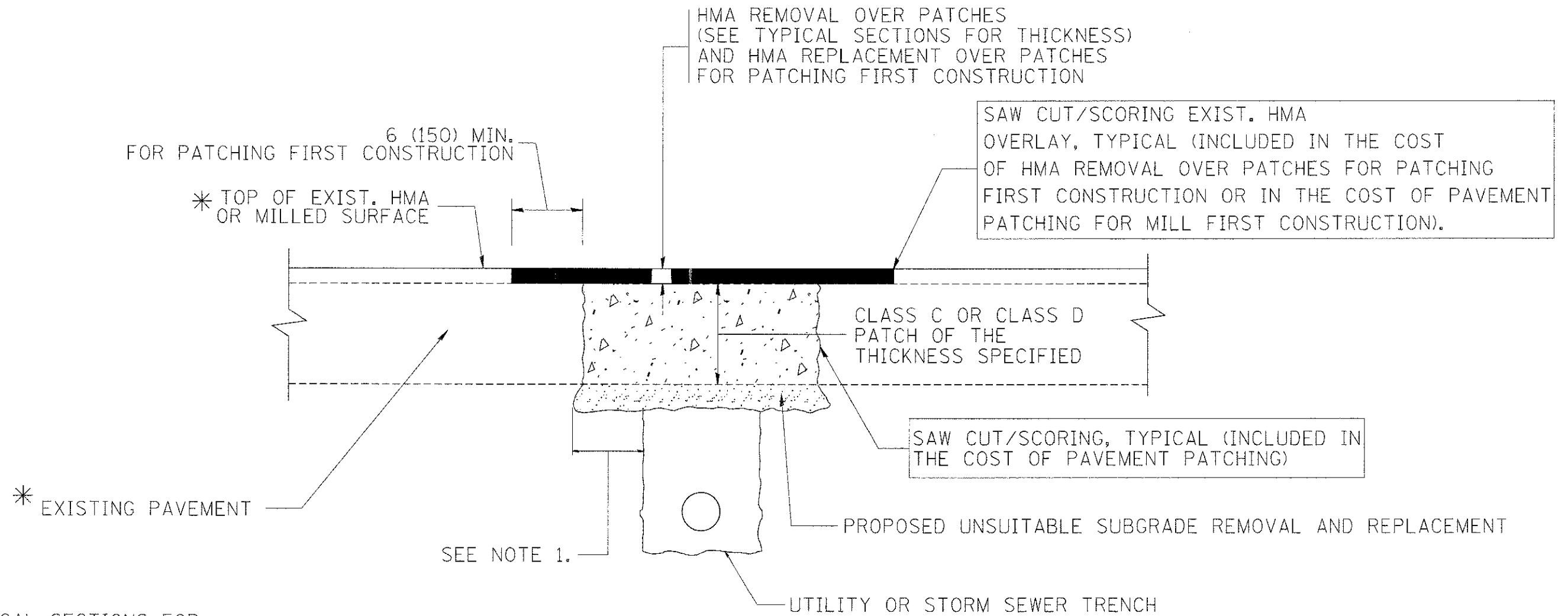
#### TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

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

FILE NAME = W:\d\stsd\22x34\bd05.dgn	USER NAME = gajilanabt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - R. SHAH 10-25-94			3784	12-F3000-23-PK	MCHENRY	133	115
	PLOT DATE = 1/4/2000	CHECKED -	REVISED - E. GOMEZ 08-28-00			<b>BD600-02 (BD-5)</b>		CONTRACT NO. 63764		
		DATE - 05-14-90	REVISED - R. BORO 01-01-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

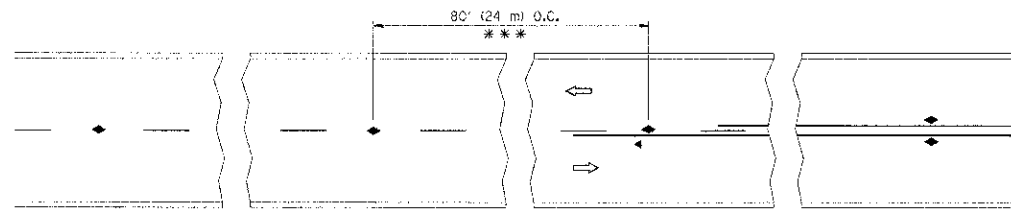
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\so22.dgn	USER NAME = lshah-dl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY MCHENRY	TOTAL SHEETS 133	SHEET NO. 116
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 01-01-07					<b>BD400-04 (BD-22)</b>			CONTRACT NO. 63764	
PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

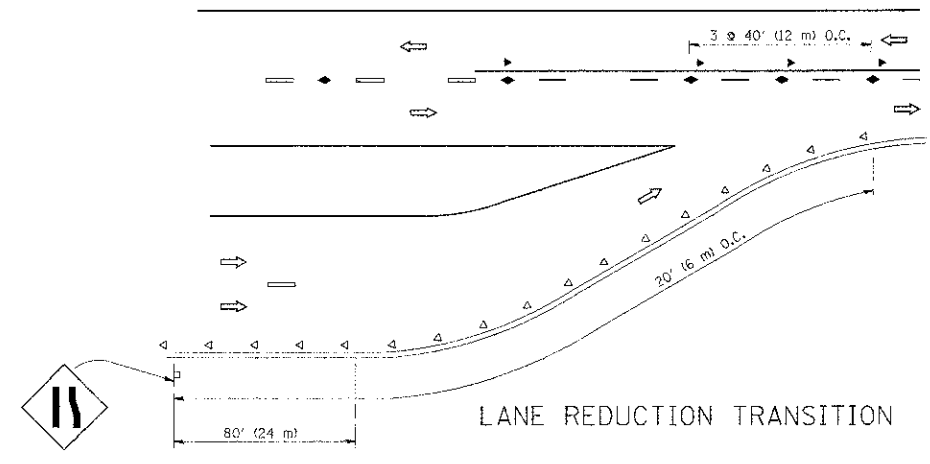




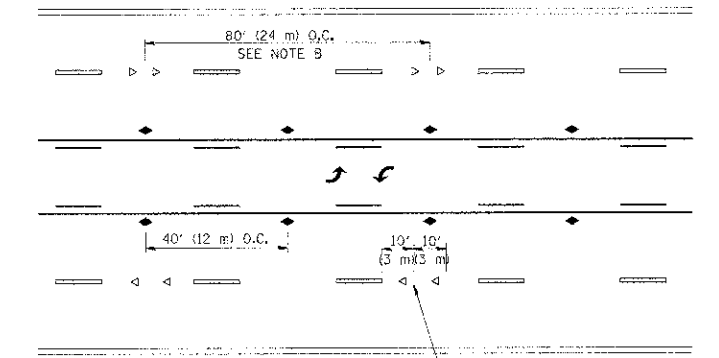


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

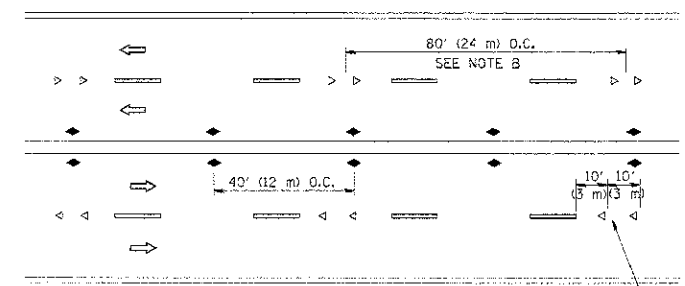
TWO-LANE/TWO-WAY



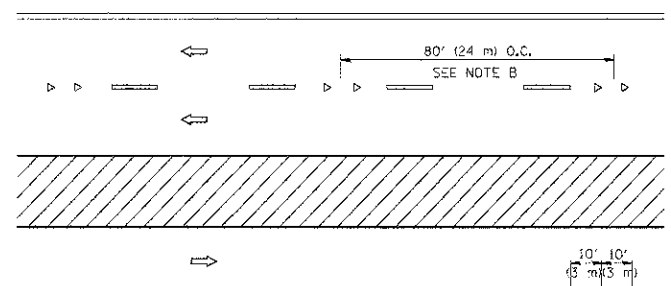
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

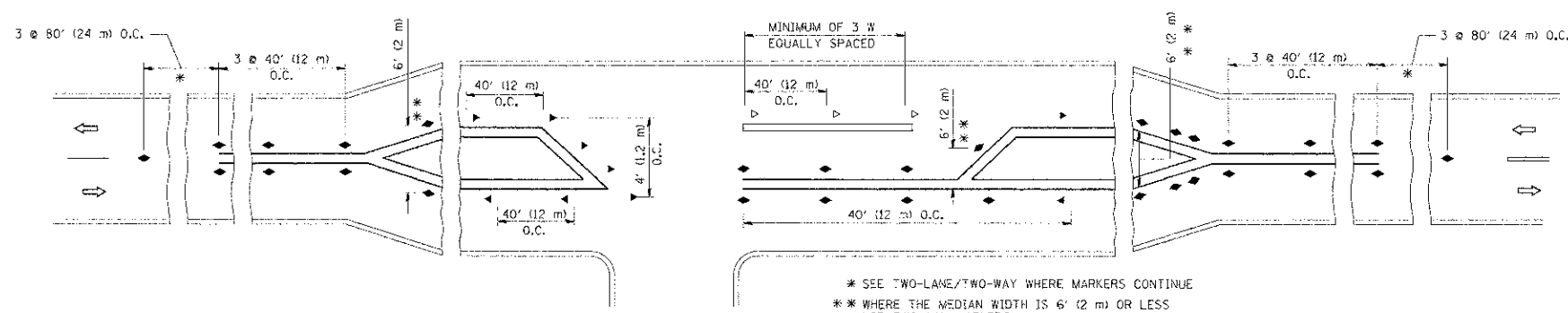
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

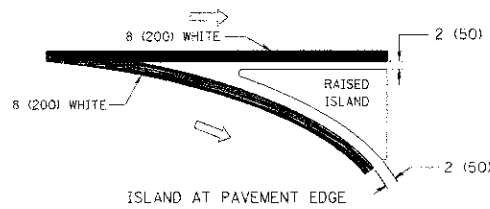
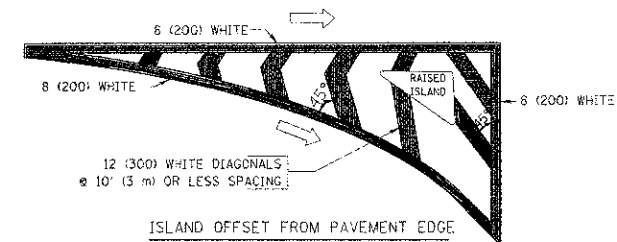
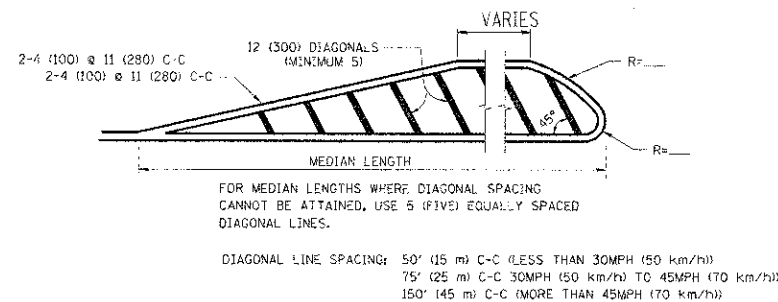
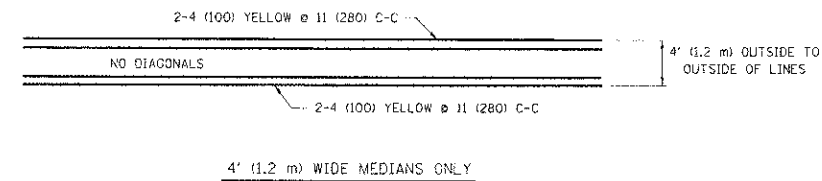
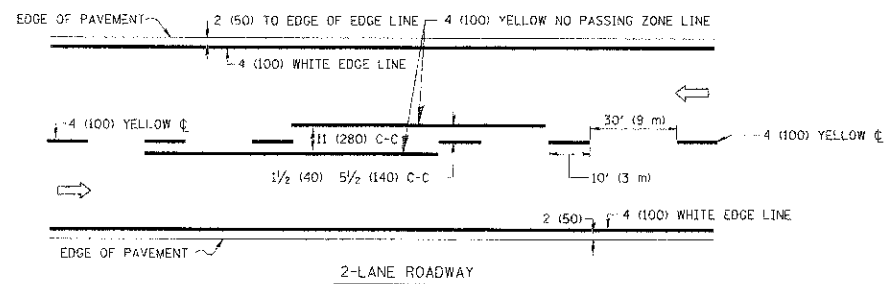
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



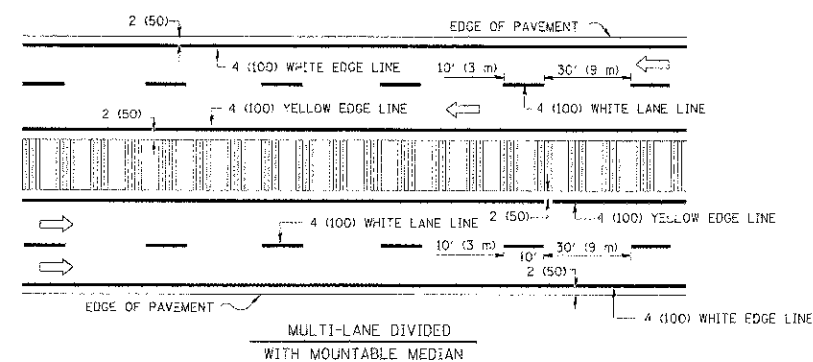
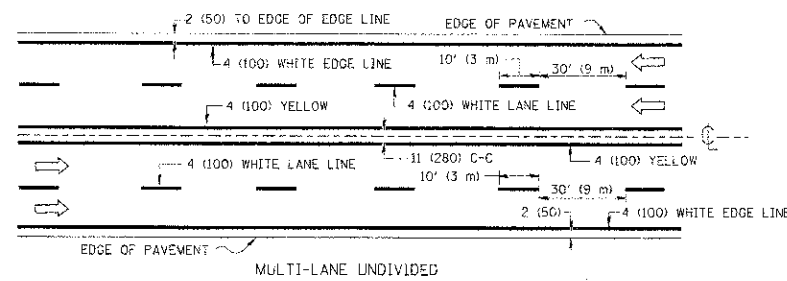
LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...	...	DRAWN -	REVISED -		<b>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>		3784	12-F3000-23-PK	MCHENRY	133	119	
...	...	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>TC-11</b>			CONTRACT NO. 63764
...	...	DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

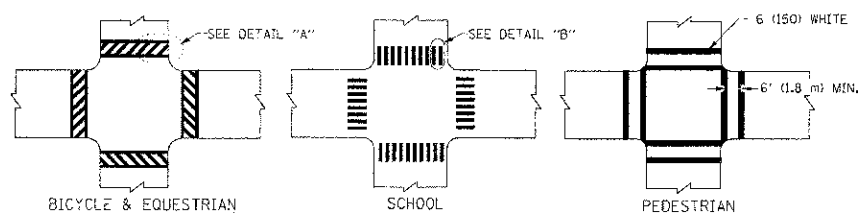


TYPICAL ISLAND MARKING

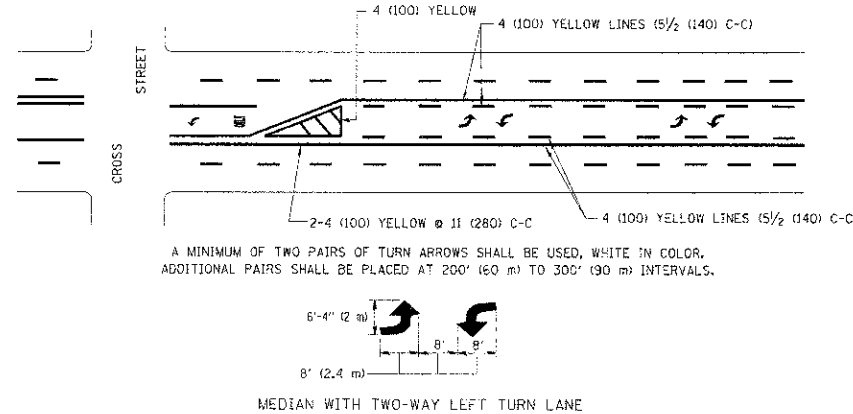


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

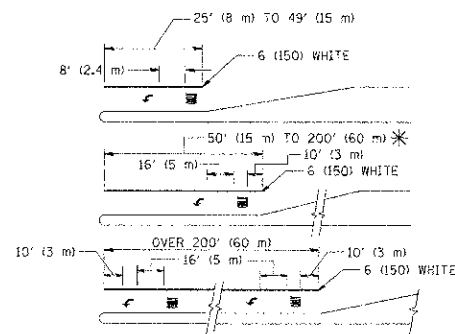
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME: 01\pav_mrk\pavdos\drivavosgn\20180315\3.dgn	USER NAME: dravosgn	DESIGNED: EVERS	REVISED: T. RAMMACHER 10-27-94
		DRAWN:	REVISED: C. JUICIUS 09-09-09
	PLT SCALE: 50,000 / 1 IN.	CHECKED:	REVISED:
	PLT DATE: 9/9/2009	DATE: 03-19-90	REVISED:

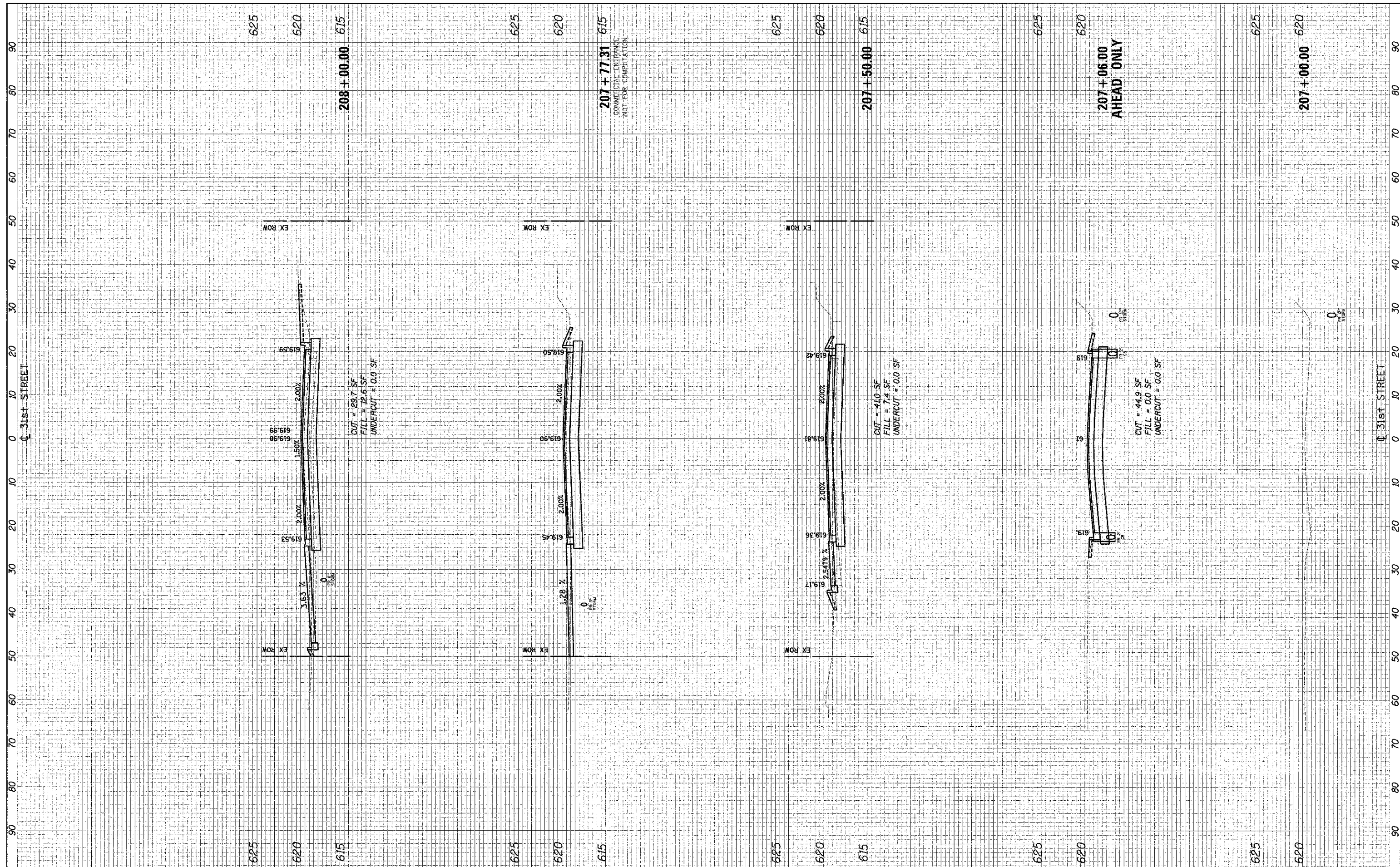
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY MCHENRY	TOTAL SHEETS 133	SHEET NO. 120
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63764	

DATE	
BY	
NO.	
AREAS CHECKED	
AREAS	
TEMPLATE	
PLOTTED	
SURVEY	
FINAL	

DATE	
BY	
NO.	
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SURVEY	
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 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

REVISIONS  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

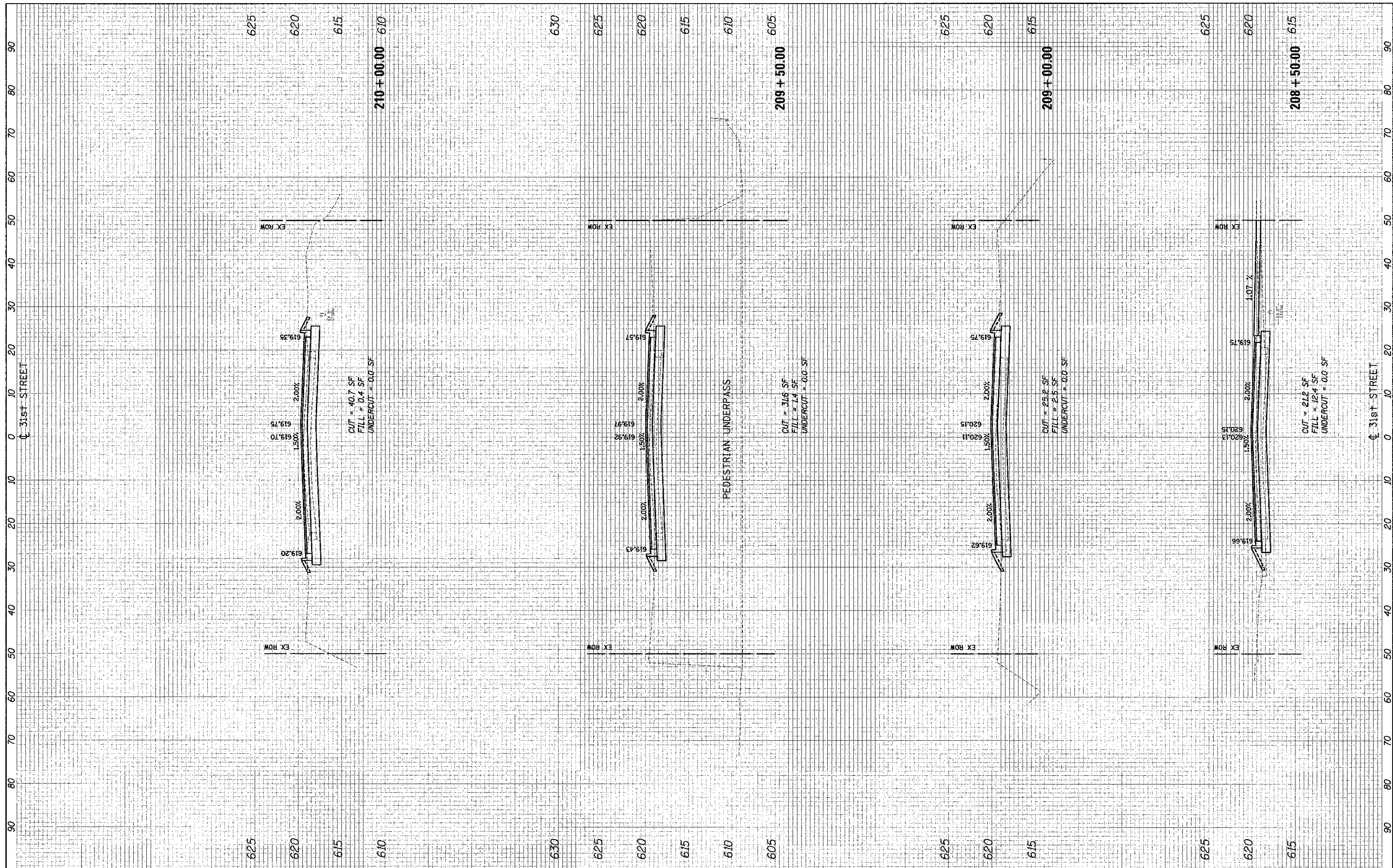
**CROSS SECTIONS**

SCALE: 10'H: 5'V SHEET NO. 1 OF 13 SHEETS STA. 207+06.00 TO STA. 208+00.00

F.A.M. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	121
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63764	

FINAL SURVEY CHECKED BY DATE  
 SURVEY PLOTTED BY DATE  
 NOTE BOOK TEMPLATE AREAS CHECKED  
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ORIGINAL SURVEY CHECKED BY DATE  
 SURVEY PLOTTED BY DATE  
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DESIGNED - DTE	REVISD
DRAWN - DTE	REVISD
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DATE - 10/22/2012	REVISD

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

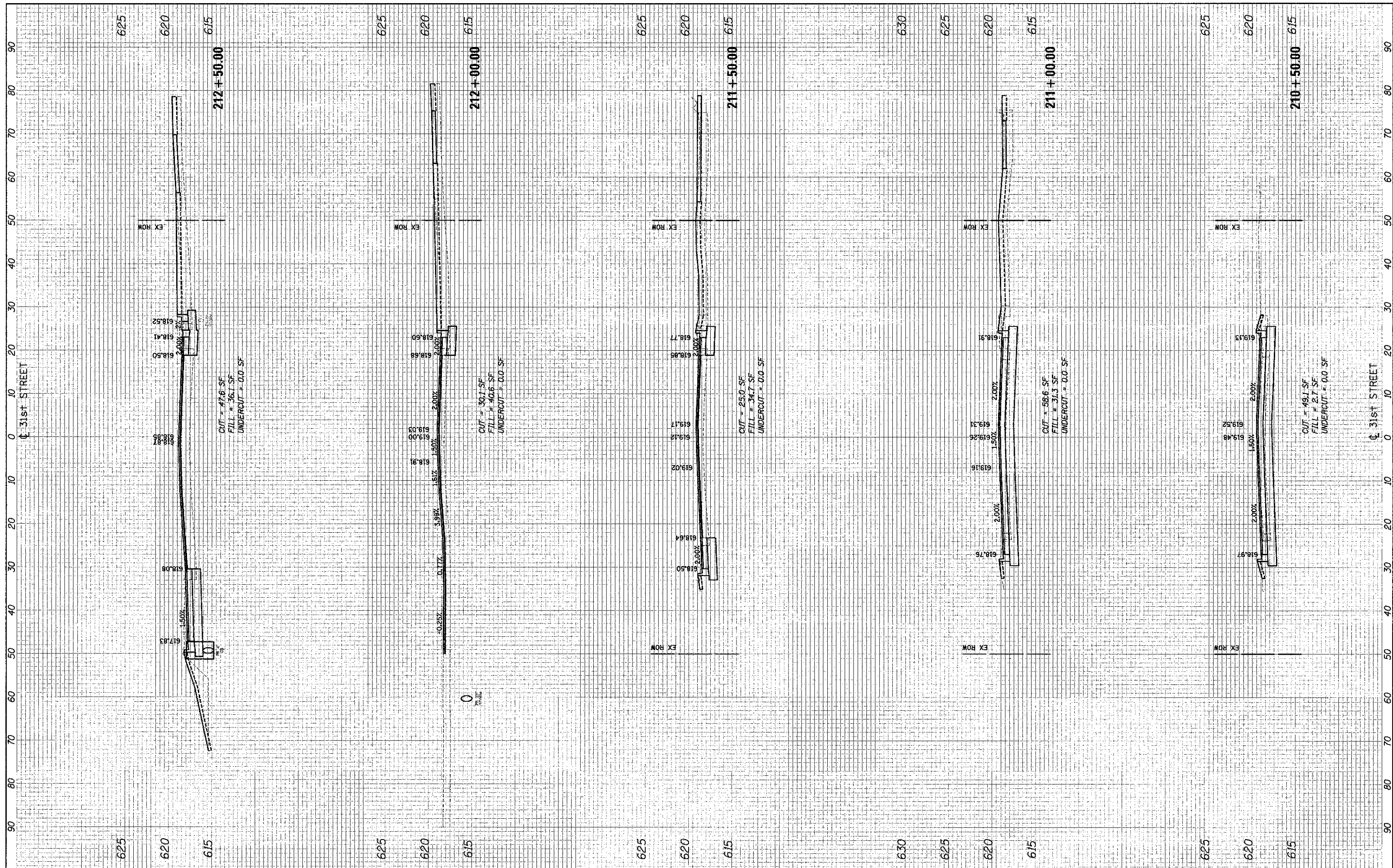
**CROSS SECTIONS**

SCALE: 10'H: 5'V SHEET NO. 2 OF 13 SHEETS STA. 208+50.00 TO STA. 210+00.00

F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 122
CONTRACT NO. 63764			ILLINOIS FED. AID PROJECT	

FINAL	SUBMITTED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMP. AREA		
	AREAS		
	AREAS		

ORIGINAL	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMP. AREA		
	AREAS		
	AREAS		



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 PLOT DATE = 11/28/2012

DESIGNED	DTE
DRAWN	DTE
CHECKED	GAB
DATE	10/22/2012

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

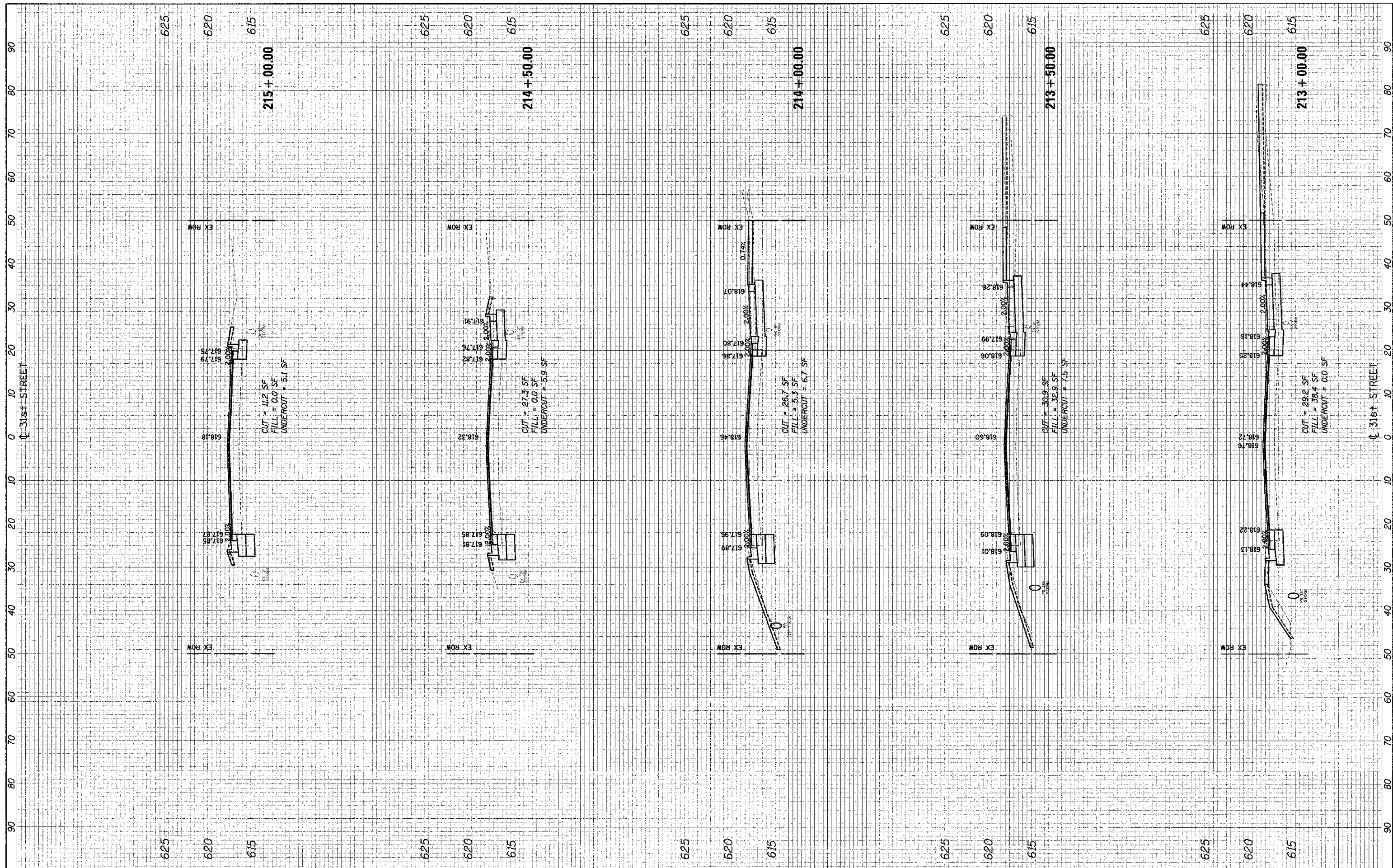
SCALE: 10'H = 5'V SHEET NO. 3 OF 13 SHEETS STA. 210+50.00 TO STA. 212+50.00

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	123
				CONTRACT NO. 63764
ILLINOIS FED. AID PROJECT				



FINAL	DATE
SUBMITTED	BY
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	

OPTIONAL	DATE
SURVEY	BY
NOTE BOOK	
AREAS	
CHECKED	



FILE NAME: ...2563\_xxxx1t\_31xudgn

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 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

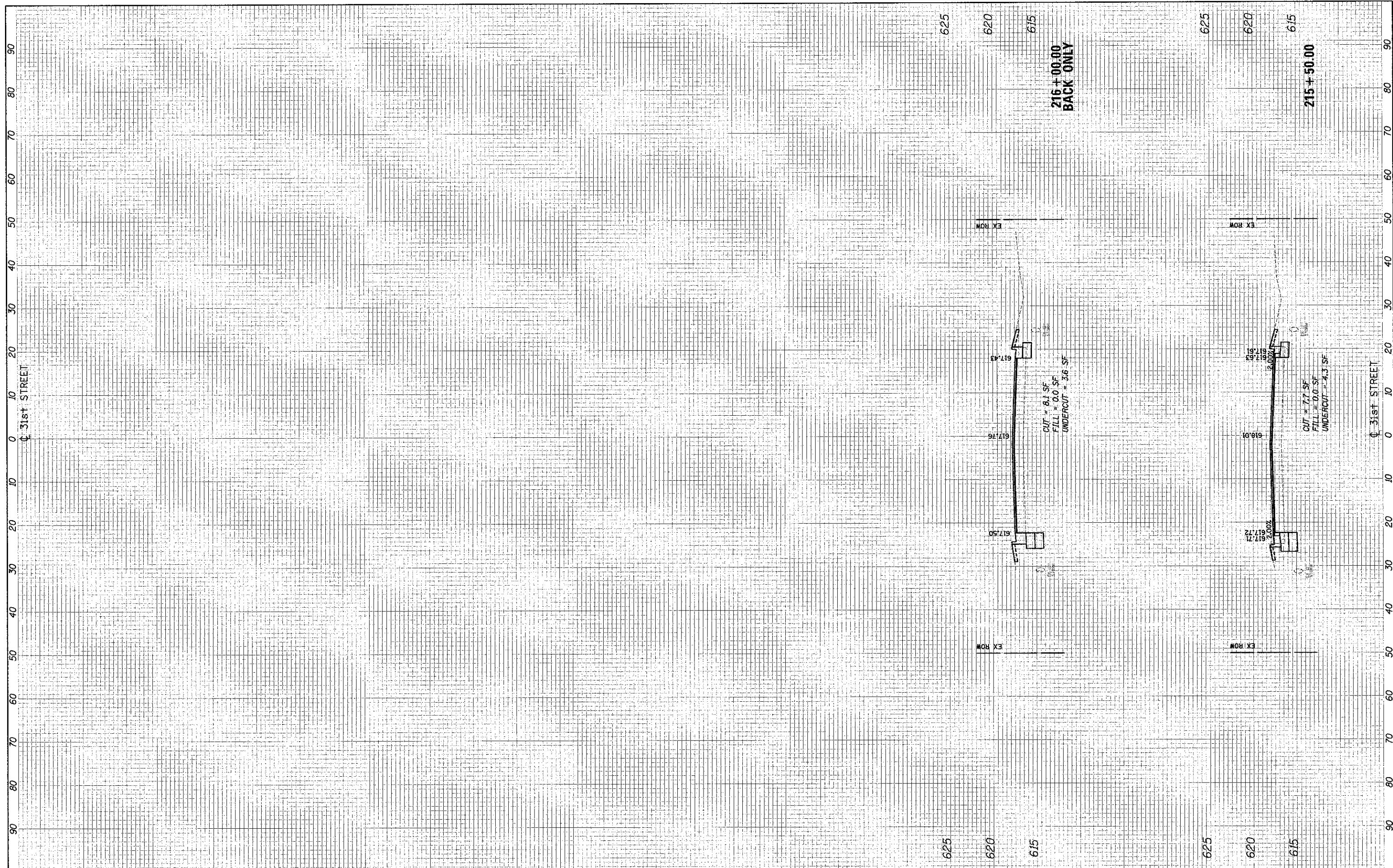
SCALE: 10'H: 5'V SHEET NO. 4 OF 13 SHEETS STA. 213+00.00 TO STA. 215+00.00

**CROSS SECTIONS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	124
CONTRACT NO. 63764			ILLINOIS FED. AID PROJECT	

FINN	SURVEYED	DATE
SHREVE	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	CHECKED
	AREAS	CHECKED

ORIGINAL	SURVEY	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	CHECKED
	AREAS	CHECKED



FILE NAME :	USER NAME :	DESIGNED :	REVISOR :
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		DTE	
		CHECKED :	REVISOR :
		GAB	
		DATE :	REVISOR :
		10/22/2012	

PILOT SCALE :	PILOT DATE :
= 10.000 ' / in.	= 11/28/2012

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

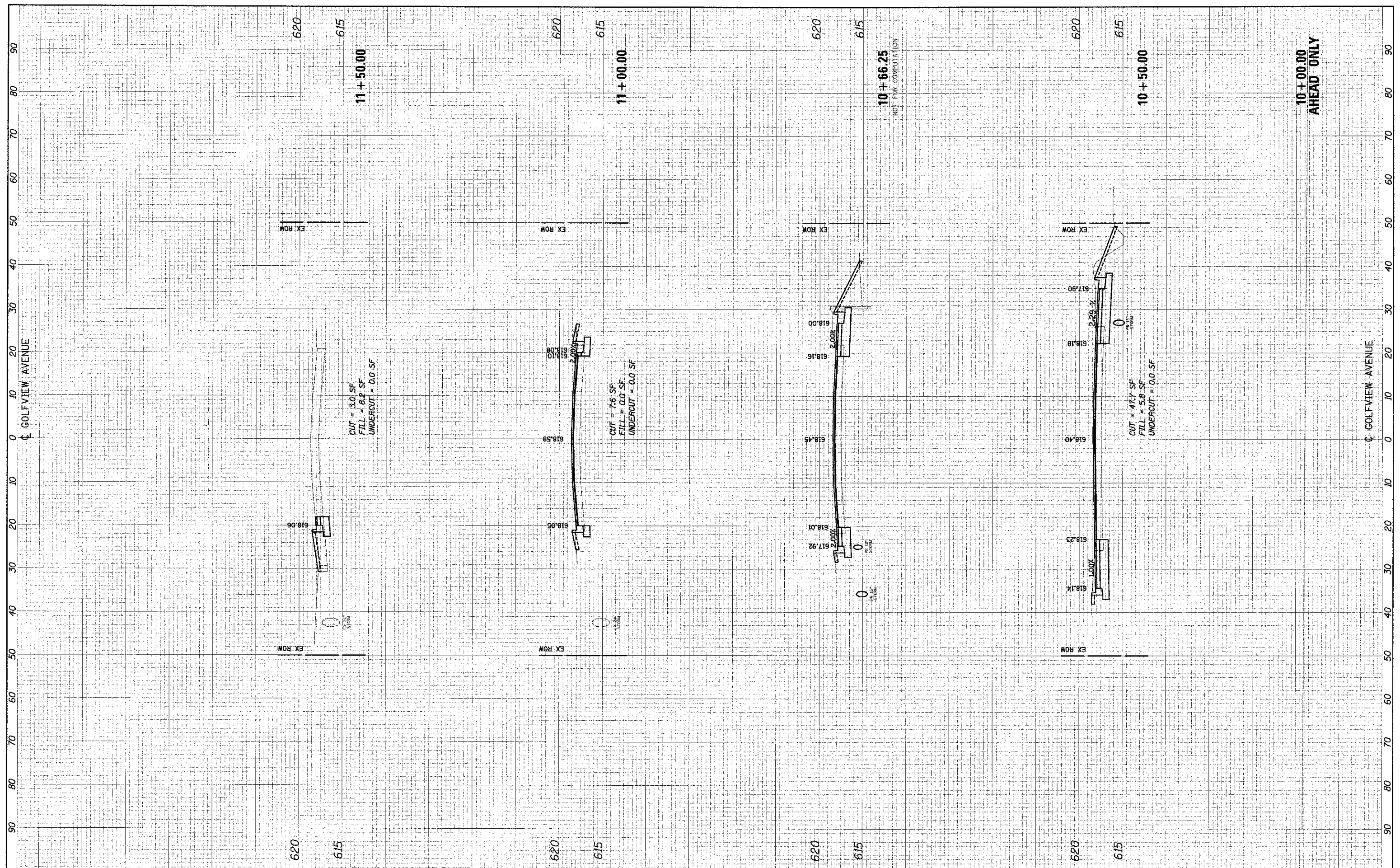
**CROSS SECTIONS**

SCALE: 10'H 5'V | SHEET NO. 5 OF 13 SHEETS | STA. 215+50.00 TO STA. 216+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
3784	12-F3000-23-PK	COOK	133
			125
			CONTRACT NO. 63764
			ILLINOIS FED. AID PROJECT

FINAL	CONVENTS	DATE
SURVEY	PLOTTED	
NOTE BOOK	REPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEY	DATE
NOTE BOOK	REPLATE	
NO.	AREAS CHECKED	



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 DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

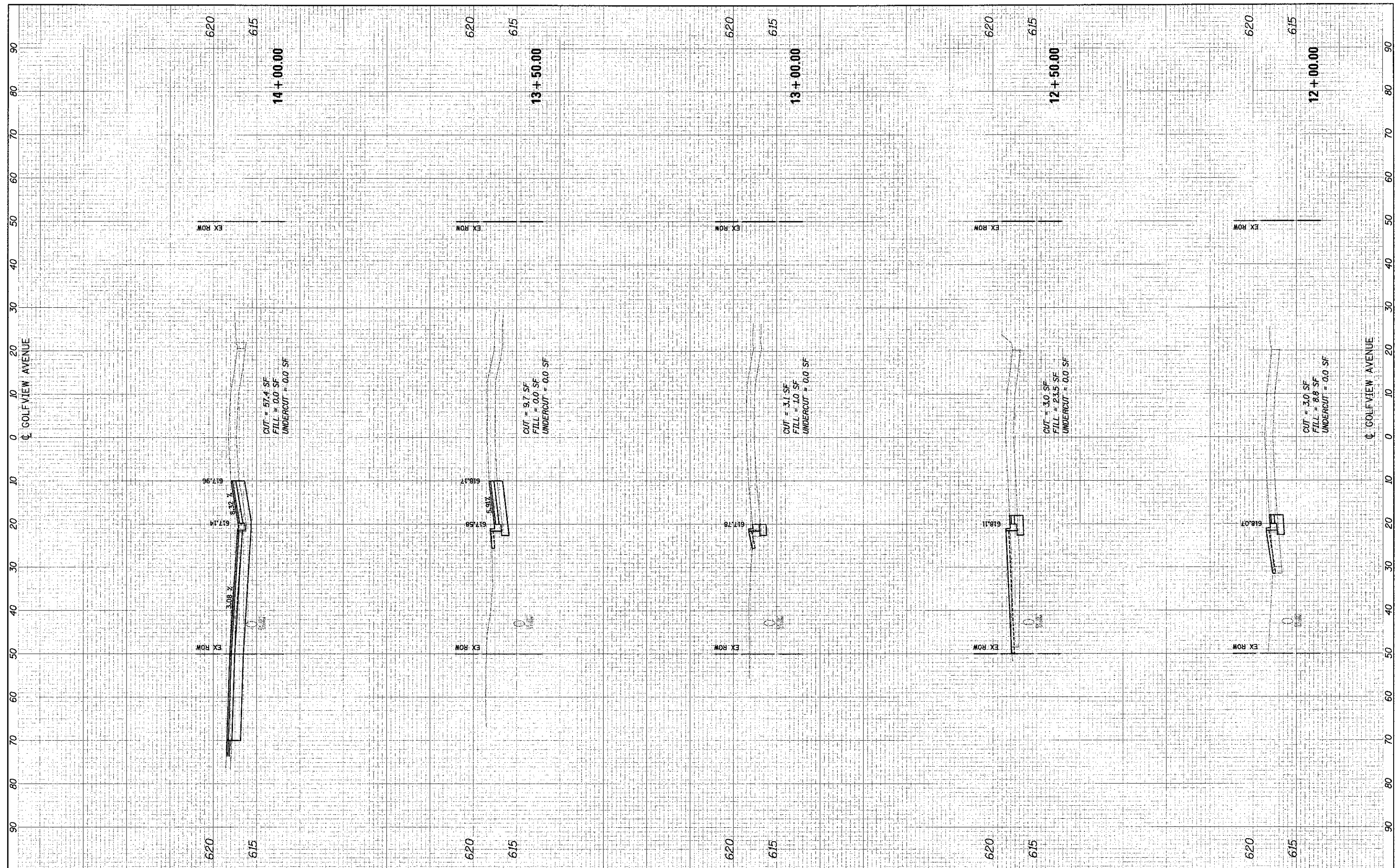
**CROSS SECTIONS**

SCALE: 10'H: 5'V SHEET NO. 6 OF 13 SHEETS STA. 10+00.00 TO STA. 11+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS: NO.
3784	12-F3000-23-PK	COOK	133 126
			CONTRACT NO. 63764
ILLINOIS FED. AID PROJECT			

FINAL	SUBMITTED	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	DATE
SURVEY	
NOTE BOOK	
NO.	



FILE NAME = ...2563.xsht\_gol.f.dgn

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 DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
 SCALE: 10'H= 5'V  
 SHEET NO. 7 OF 13 SHEETS  
 STA. 12+00.00 TO STA. 14+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	127
ILLINOIS FED. AID PROJECT				CONTRACT NO. 63764

DATE	
NO.	
AREA'S	
TEMPERATURE	
PLOTTED	
TEMPERATURE	
PLOTTED	
TEMPERATURE	
PLOTTED	
TEMPERATURE	

DATE	
NO.	
AREA'S	
TEMPERATURE	
PLOTTED	
TEMPERATURE	
PLOTTED	
TEMPERATURE	
PLOTTED	
TEMPERATURE	



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	CHECKED - GAB	REVISED -
	DATE - 10/22/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

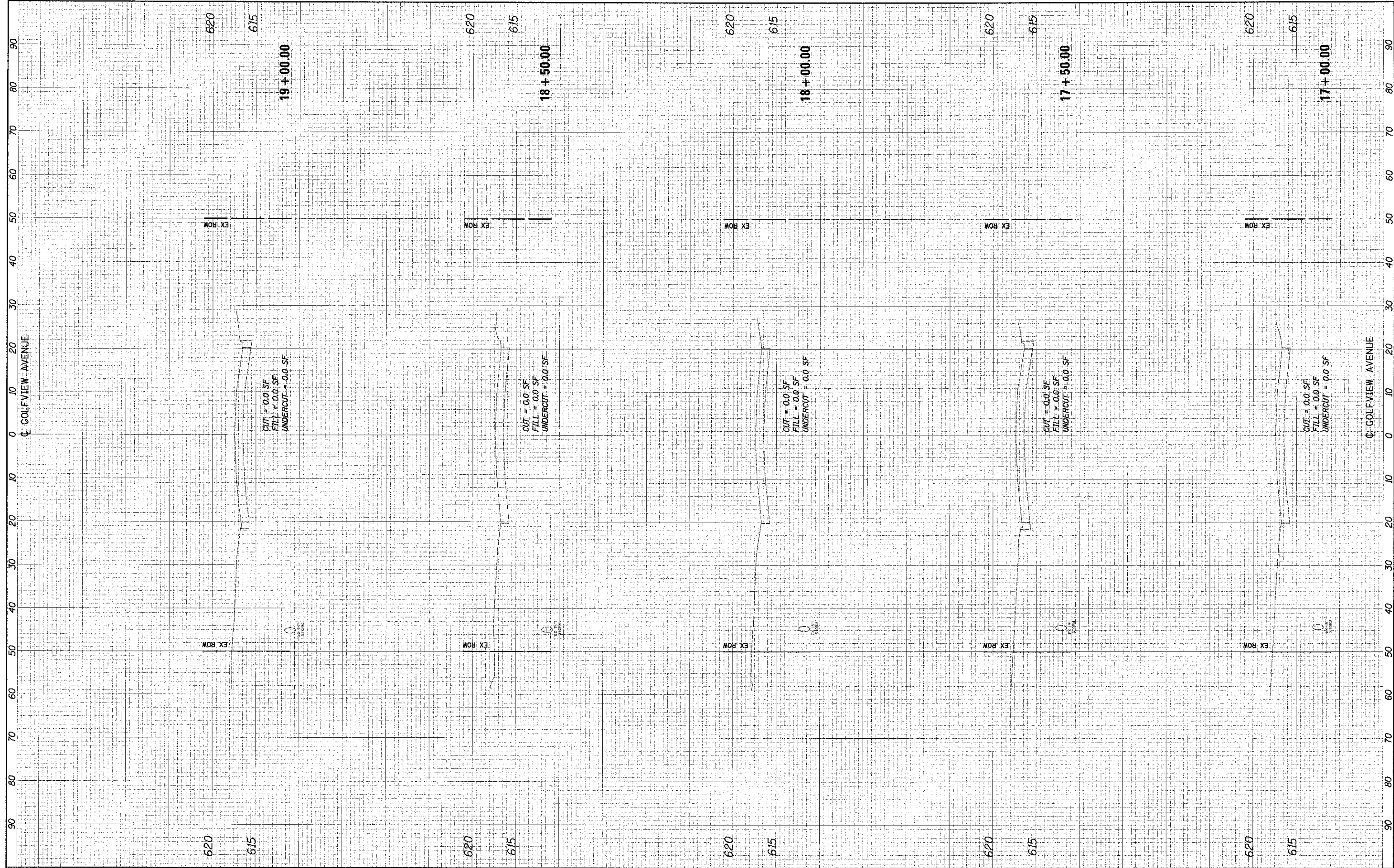
**CROSS SECTIONS**

SCALE: 10'H: 5'V    SHEET NO. 8 OF 13 SHEETS    STA. 14+50.00 TO STA. 16+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS: NO.
3784	12-F3000-23-PK	COOK	133 128
			CONTRACT NO. 63764
ILLINOIS FED. AID PROJECT			

FINISH SURVEY  
 SURVEY PLOTTED  
 NOTE BOOK  
 AREAS CHECKED  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ORIGINAL SURVEY  
 SURVEY PLOTTED  
 NOTE BOOK  
 AREAS CHECKED  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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 DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

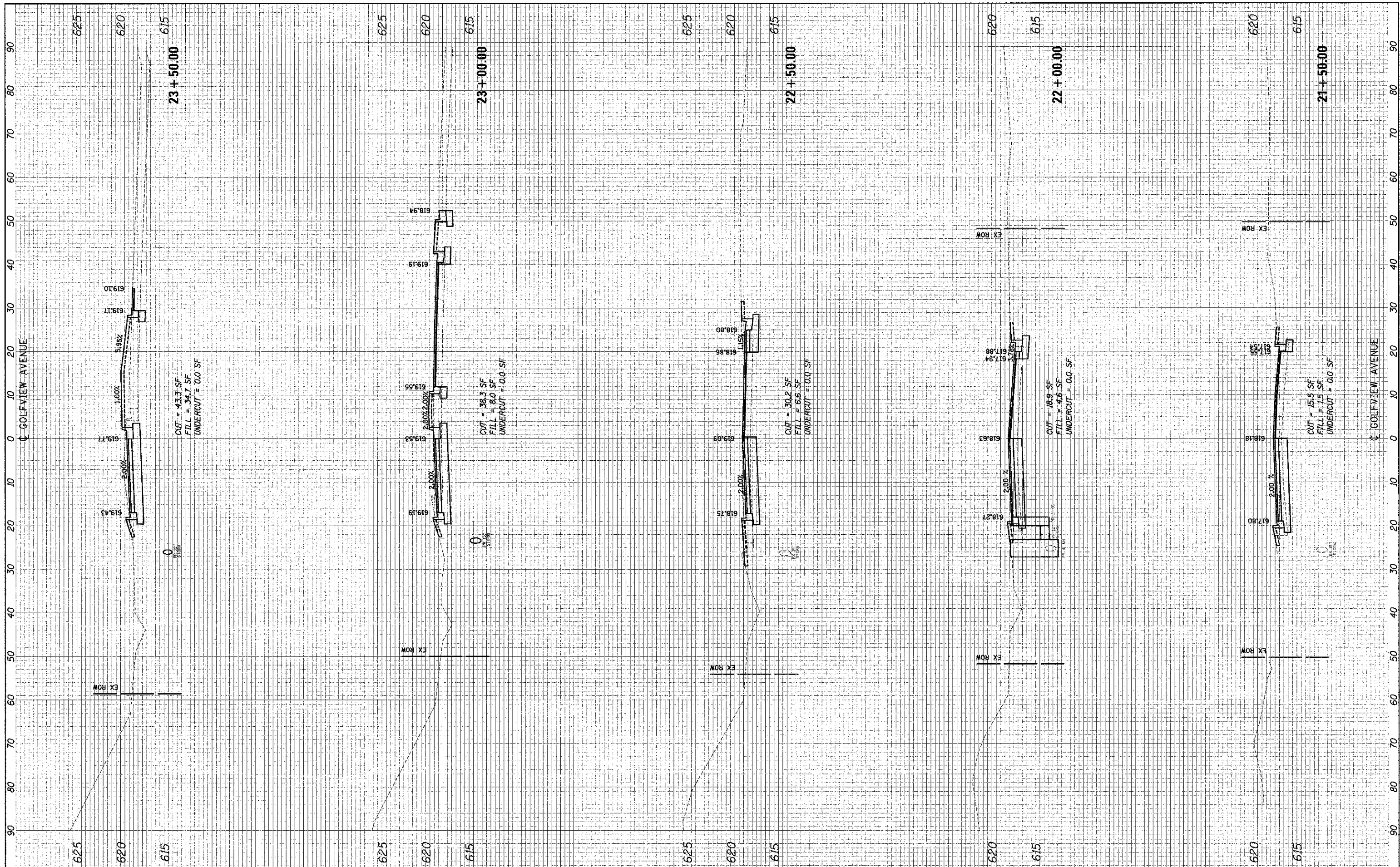
SCALE: 10'H: 5'V    SHEET NO. 9 OF 13 SHEETS    STA. 17+00.00 TO STA. 19+00.00

F.A.U. RTE. 3784	SECTION 12-F3000-23-PK	COUNTY COCK	TOTAL SHEETS 133	SHEET NO. 129
<b>CONTRACT NO. 63764</b>				
ILLINOIS FED. AID PROJECT				



FINAL	SERVICES	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL	SURVEY	DATE
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



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 PLOT SCALE: 1/8" = 10.000' / 1"  
 PLOT DATE: 11/28/2012

DESIGNED - DTE  
 DRAWN - DTE  
 CHECKED - GAB  
 DATE - 10/22/2012

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

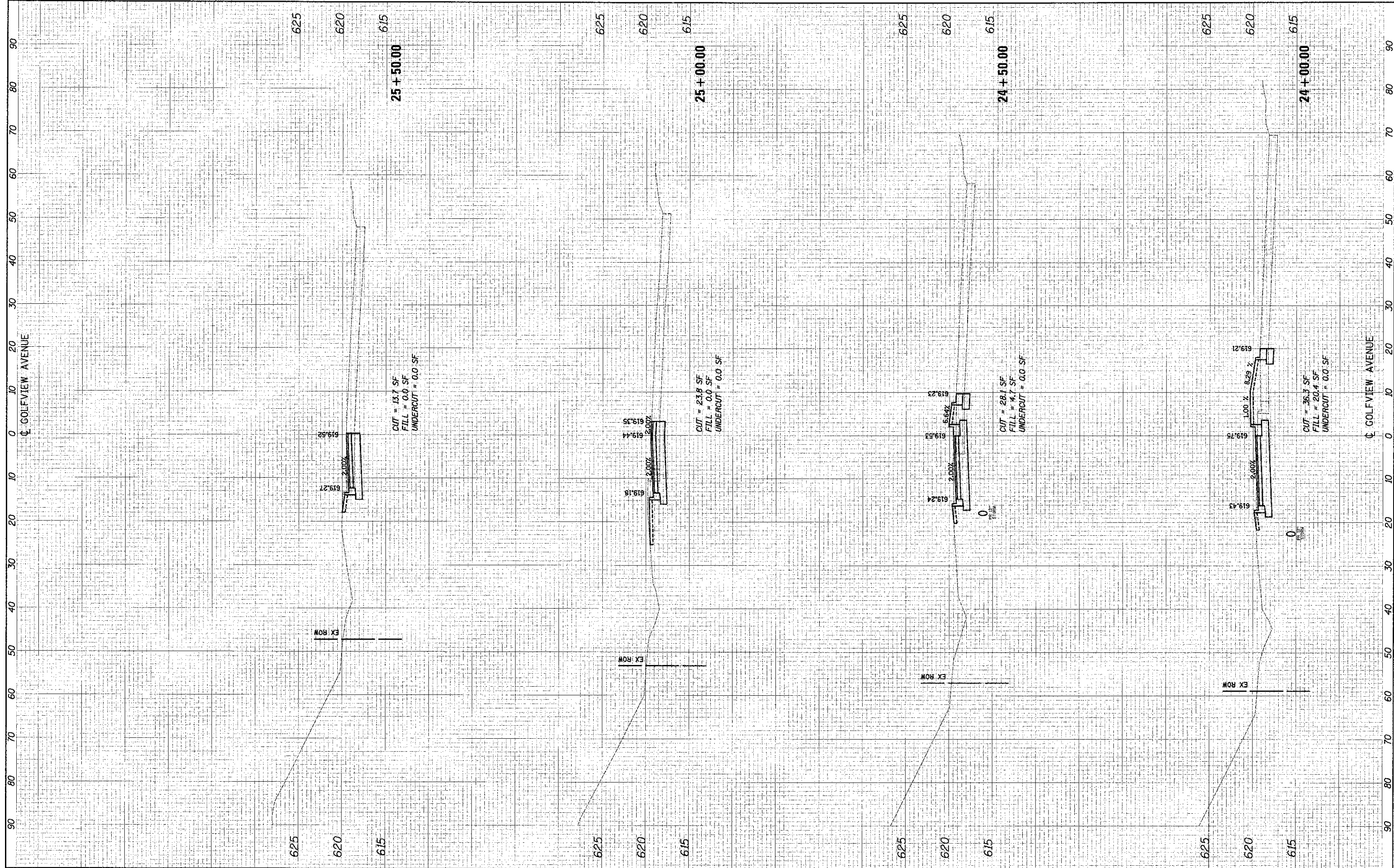
SCALE: 10'H: 5'V SHEET NO. 11 OF 13 SHEETS STA. 21+50.00 TO STA. 23+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COOK	133	131
CONTRACT NO. 63764			ILLINOIS FED. AID PROJECT	



FINAL	REVISION	BY	DATE
SHEET	PILOTED		
NOTE BOOK	TEMPLATE		
AREAS	AREAS		
DATE	DATE		

ORIGINAL	DATE
SHEET	
NOTE BOOK	
AREAS	
DATE	



FILE NAME = ...  
 USER NAME = dte  
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 PLOT DATE = 11/15/2012

DESIGNED - DTE  
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 CHECKED - GAB  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

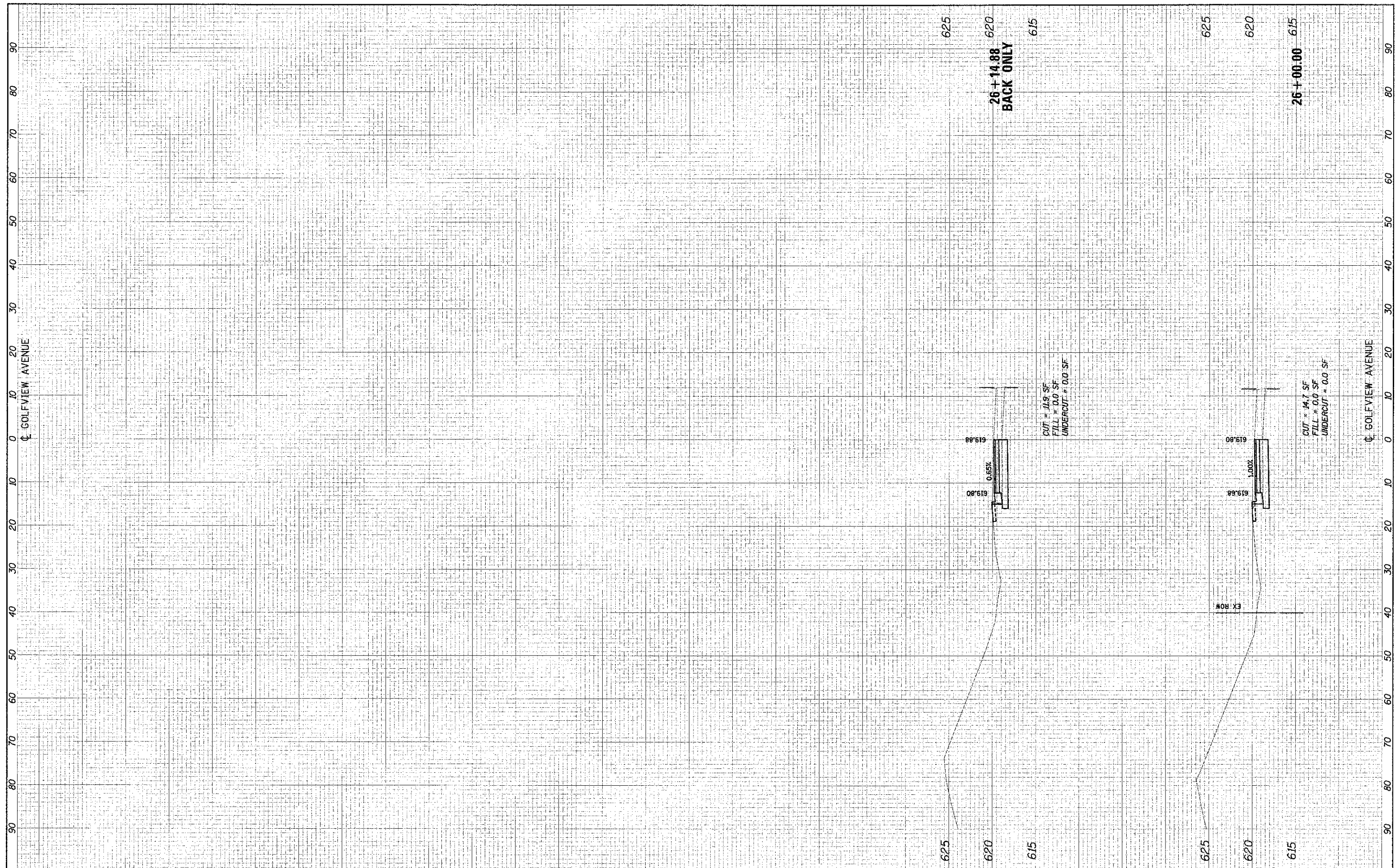
**CROSS SECTIONS**

SCALE: 10'H: 5'V | SHEET NO. 12 OF 13 SHEETS | STA. 24+00.00 TO STA. 25+50.00

P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
3784	12-F3000-23-PK	COOK	133 132
CONTRACT NO. 63764			
ILLINOIS FED. AID PROJECT			

FINAL	SUPERSED	DATE
SERIES	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS	

ORIGINAL	SUPERSED	DATE
SURVEY	PLOTTED	
NOTE BOOK	TEMPLATE	
NO.	AREAS	
	AREAS	



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USER NAME = dtc  
 DESIGNED - DTE  
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 CHECKED - GAB  
 DATE - 10/22/2012

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: 10'H = 5'V SHEET NO. 13 OF 13 SHEETS STA. 26+00.00 TO STA. 26+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3784	12-F3000-23-PK	COCK	133	133
CONTRACT NO. 63764				
ILLINOIS FED. AID PROJECT				