VILLAGE OF LANSING LANSING, ILLINOIS

DESIGN INFORMATION

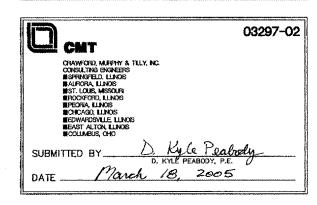
APPROACH CATEGORY B DESIGN GROUP II

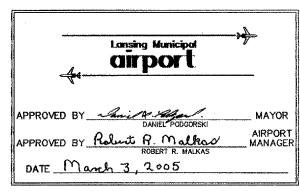
LANSING MUNICIPAL AIRPORT

RANCE: 15 EAST COOK COUNTY

BLOOM TOWNSHIP OPPOSITE GLENWOOD-LANSING

CALL JULIE BEFORE EXCAVATING 1-800-892-0123



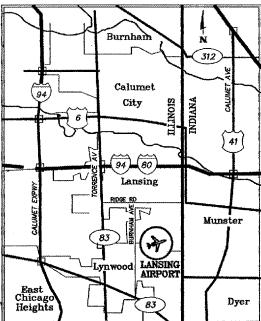


CONSTRUCTION PLANS FOR LANSING MUNICIPAL AIRPORT

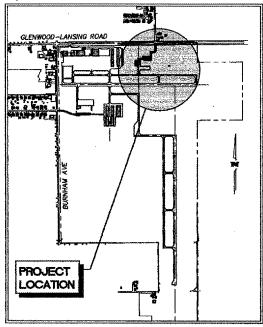
CONSTRUCT NORTH QUADRANT SITE WORK - PHASE 1; CONSTRUCT TAXIWAY G2 EXTENSION; GLENWOOD-LANSING ROAD INTERSECTION IMPROVEMENTS

> ILLINOIS PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21

> > MARCH 4, 2005 REVISED JUNE 10, 2005







SITE PLAN





INDEX TO SHEETS

CONSTRUCT NORTH QUADRANT SITE WORK - PHASE 1 AND CONSTRUCT TAXIWAY G2 EXTENSION

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- SEQUENCE OF CONSTRUCTION GENERAL NOTES AND DETAILS SEQUENCE OF CONSTRUCTION PER AC 150/5370-2E (LATEST EDITION)
- STORM WATER POLLUTION PREVENTION PLAN
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SUMMARY OF QUANTITIES

					TAXIWAY G	CAL STATE/LOCAL		NT SITEWORK - PHASE 1 LOCAL ONLY			ntersection E/Local	
ITEM NO.	DESCRIPTION WHAT SPECIFICATIONS FOR CONSTRUCTION	UNIT	TOTAL ESTIMATED QUANTITY TS SPECIFIED ITEMS	QUANTITY	ESTIMATED QUANTITY	RECORD QUANTITY	ESTIMATED QUANTITY	RECORD QUANTITY	RSTIMATED QUANTITY	RECORD QUANTITY	ESTIMATED QUANTITY	RECORD QUANTITY
AR108030	1/C #3/0 600 V UG CABLE 1/C #8 5 KV UG CABLE IN UD	LF LF	750 2550		750		=		<u>-</u>		====	
AR108406	1/C #6 600 V UC CARLE	LF.	2550		2,550		2,550				-	
AR108752 AR108760	1/C #2 GROUND 1/C #10 GROUND	LF LF	75 1050	······································			75 1,050			ļ		<u> </u>
AR110212 AR110214	1/C #2 GROUND 1/C #10 GROUND 2 STEEL DUCT, DIRECT BURY 4 STEEL DUCT, DIRECT BURY	LF LF	50 180		-		50		180		=	
] AR110217]	1 1/2" STEEL DUCT, DIRECT BURY	LF	1050				1,050		_			
AR110550	4-WAY CONCRETE ENCASED DUCT SPLIT DUCT	Ti U	135 260		135 200		- 60		-			
	ELECTRICAL HANDHOLE ELEVATED RETROREFLECTIVE MARKER	EACH EACH	3 16		=		3 16				=	
AR125410	MITLSTAKE MOUNTED MITL BASE MOUNTED	EACH EACH	31 6		31 6							
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	1		1		-		-		~	
AR125444 AR125445	TAXI GUIDANCE SIGN, 4 CHARACTER TAXI GUIDANCE SIGN, 5 CHARACTER MODIFY EXISTING SIGN PANEL	EACH EACH	1 2		1 2				-		=	
AR125470 AR125901	MODIFY EXISTING SIGN PANEL REMOVE STAKE MOUNTED LIGHT	EACH EACH	1 4		1	***************					===	
AR150510 AR150520	ENGINEER'S FIELD OFFICE MOBILIZATION	is Ls	1		1 .18		.72		.10			
AR152540	SOIL STABILIZATION FABRIC	SY	12620		2,200		9,700		720			
	SILT FENCE DITCH CHECK	LF EACH	2250 16		=		2,250 16		<u>-</u>			
AR156512	BALES	EACH	224		54		160					
AR156531 AR156540	EROSION CONTROL BLANKET RIPRAP	SY SY	10250 30		1,045		9,205 30				=	
AR156543 AR156545	RIPRAPGRADATION NO. 3 RIPRAPGRADATION NO. 5	SY SY	110 250		=		110 250					
AR162506	CLASS E FENCE 6'	ĻF	400		400		*					
AR162612 AR162724	CLASS E GATE-12' ELECTRICAL GATE 24'	EACH EACH	2		1		-					·····
AR162960 AR201610	RELOCATE CLASS E FENCE BITUMINOUS BASE COURSE	LF TON	529 1816		529 311		1,405		100		==	
AR208515	POROUS GRANULAR EMBANKMENT	CY	608		118		490					
AR208604 AR209607	4" AGGREGATE BASE COURSE CRUSHED AGG, BASE COURSE — 7"	SY	6140 6140	·····	-		5,600 5,600		540 540		=	
AR209608 AR209611	CRUSHED AGG. BASE COURSE ~ 8"	SY SY	4280				4,100		180			
AR401610	CRUSHED AGGREGATE BASE COURSE - 11" BITUMINOUS SURFACE COURSE	TON	2200 1092		2,200 187		- 845		- 50		=	
AR401900 AR401910	REMOVE BITUMINOUS PAVEMENT REMOVE & REPLACE BIT. PAVEMENT	SY SY	71 20		52		19 20				=	
AR510510	TIE DOWN	EACH	12				12					
AR602510	GROUND ROD BITUMINOUS PRIME COAT	EACH GAL	5955		1,100	*****	2 4,500		355		=	
AR620520	BITUMINOUS TACK COAT PAVEMENT MARKING - WATERBORNE	GAL SF	1773 2770		316 1,300		1,350 1,470		107			
AR701006	6" PVC STORM SEWER	LF	190		40		150				_	
AR701184 AR701512	PRECAST CONC. BOX CULVERT 8' X 4'	LF LF	216 65		25		216 40			***********************	=	
AR701515 AR701518	15" RCP, CLASS IV 18" RCP, CLASS IV	LF LF	465 675		170		465 505				=	
AR701524	24" RCP, CLASS IV	LF	116		116		~					
	REMOVE PIPE 6" PERFORATED UNDERDRAIN W/SOCK	ur ur	210 1720		125 915		85 805					
AR705635 AR705900	UNDERDRAIN COLLECTION STRUCTURE REMOVE UNDERDRAIN	EACH LF	2 760		1 600		160		=			
AR751411	INLET-TYPE A	EACH	2		-		2				_	
AR751540 AR751900	MANHOLE 4' REMOVE INLET	EACH EACH	5 1	······································	=		5 1		==		-	
AR752412 AR752415	PRECAST REINFORCED CONC. FES 12" PRECAST REINFORCED CONC. FES 15"	EACH EACH	1		1 -		-		-			
AR752418	PRECAST REINFORCED CONC. FES 18"	EACH	10		4		6					
AR752424 AR752512	PRECAST REINFORCED CONC. FES 24" GRATING FOR CONC. FES 12"	EACH EACH	2		2						-	
AR752515 AR752518	GRATING FOR CONC. FES 15" GRATING FOR CONC. FES 18"	EACH EACH	1 10		4		1 6				-	
AR752524	GRATING FOR CONC. FES 24" REMOVE END SECTION	EACH EACH	2	·····	2 2						-	
AR754410	COMB. CONCRETE CURB & GUTTER	LF	1350				1,350				-	
AR754915	PAVED DITCH REMOVE CONCRETE FLUME	LF	2600 130		1,200 130		1,400					
AR760506	6" DUCTILE IRON WATER MAIN 8" DUCTILE IRON WATER MAIN	LF LF	30 20		=		30		-		-	
AR760512	12" DUCTILE IRON WATER MAIN	LF	1750				20 1,750				-	
AR760830	FIRE HYDRANT WATER VALVE	EACH EACH	3 2				3 2		-			ļ
AR760860	TAPPING VALVE & SLEEVE TYPE 1 INLET	EACH EACH	1 6		3		3		-			
AR800012	BOX CULVERT END SECTION B' X 4'	EACH	6		_		6				~	
AR800043	BORING AND JACKING TYPE 2 INLET	LF EACH	143		1		143		-			<u> </u>
AR800048	DRAINAGE GATE 30" 5" STEEL DUCT, DIRECT BURY	EACH LF	1 200		1				200		=	
AR800097	RESTRICTOR PLATE TYPE A	EACH	3		3		-		-		-	
	RESTRICTOR PLATE — TYPE 8 LINE STOP, 8*	EACH EACH			-		1					ļ
AR800100	ELECTRIC SERVICE RELOCATION	LS	1		_		1		*			
AR800104	EMBANKMENT FILL SHOULDER FILL	CY CY	22054 3151		649 671		21,405 2,480		-			
	1/C #4/0 600V UG CABLE STEEL PLATE BEAM GUARDRAIL - TYPE A	LF LF	120 280				120 280		-			
AR800107	STEEL PLATE BEAM GUARDRAIL - TYPE B	LF	65		-		65				_	
AR901511	ON—SITE STOCKPILE SEEDING FORMULA 1	CY ACRE	21729 24.9		650 2.8		21,079 22.1		1		1	
	SEEDING FORMULA 2	ACRE	0.7	************			0.7		-		-	

				T	TAXIWAY G	EXTENSION STATE/LOCAL	NORTH C	UADRANT S	ITEWORK	PHASE 1 ONLY	ROADWAY II	TERSECTION
ITEM No.	DESCRIPTION	UNIT	TOTAL ESTIMATED	QUANTITY	ļ	RECORD QUANTITY	ESTIMATED QUANTITY	RECORD	ESTIMATED QUANTITY	RECORD	ESTIMATED QUANTITY	RECORD QUANTITY
	DARD SPECIFICATIONS FOR CONSTRUCTION						***************************************	······································				
AR904510		SY	275				275.0	ļ		↓		
AR908510	TOPSOILING (FROM ON SITE) MULCHING	ACRE	8169 22.8		1,197		8,972.0				<u> </u>	
R910101		EACH	22.0		2.6		20.2		- -	ļ		
R910102	ROADWAY LIGHT POLE, TYPE B	EACH	<u> </u>		 		2			}	-	
R910161	ROADWAY LIGHTING TRANSCLOSURE	LS	1				1-1-				==	
R910200	ROADWAY SIGN	EACH	7	 			7			†		
AR910975	RELOCATE ROADWAY SIGN	EACH	1		_		1					
OT - STAN	NDARD SPECIFICATIONS FOR ROAD AND BRID	GE CONST	RUCTION SPECIFIED	ITEMS			·····	L		<u> </u>		
0200500	EARTH EXC WID	CY	140		-		_			T	140	
1101400	SUB GRAN MAT B 6	SY	100		-		-		-		100	
	PGC PVT 10 JOINTED	SY	425				~		_		425	
4000100	PAVEMENT REM	SY	30		-		_				30	
4000500	COMB CURB GUTTER REM	LF	620				-				620	
4003100	MEDIAN REMOVAL	SF	3400								3,400	
4003800 0250500	MEDIAN SURF REMOVAL CB ADJ NEW T1F CL	SF EACH	1600		<u> </u>	ļ		ļ			1,600	
0250500 0608300		LF LF	175		<u> </u>					 	175	
	BIT MEDIAN SURF	SF	1170							 	1.170	
0623714		SF	830		 		<u>-</u>				830	
0623745		SF	360			 				 	360	
0102635	TR CONT & PROT 701701	LS -	1			 	l			 	1	
2000100	SIGN PANEL T1	SF	g				_		<u>-</u>	 	9	
2000200	SIGN PANEL T2	SF	12	1		T				 	12	
2400800	REMOV SIGN COMPLETE	SF	18			I				†	18	
2400900	REMOV SIGN PANEL	EACH	1		-				_		1	
8001100	PT PVT MK LTRS & SYMB	SF	100		_				-	L	100	
8001130	PAINT PVT MK LINE 6	LF	225						-		225	
8001180	PAINT PVT MK LINE 24	노	12				_		_		12	
3300100	PAVT MARKING REMOVAL	SF	100				-				100	
000300	CON T 1 GALVS	LF	65								65	
1000600	CON T 2 GALVS	T.	220								220	
1000700	CON T 2 1/2 GALVS	LF	200								200	
1001000	CON T 4 GALVS	ᄕ	20		-						20	
1018500 1400100	CON P 2 GALVS HANDHOLE	LF	47								47	
1400200	HD HANDHOLE	EACH EACH				 			-		2	
5000200	MAIN EX TR SIG INSTAL	EACH	 			 					<u>2</u>	
7301225	FLCBL C SIGNAL 14 3C	LF	250								250	
7301245	ELCBL C SIGNAL 14 5C	LF	650								650	
7301255	ELCBL C SIGNAL 14 7C	Ĭ.	650								650	
7301305		LF	1440								1,440	
7702850		EACH	1	***************************************							1	
	STL COMB MAA&P 28	EACH	1		~-	 					i	
7800400	CONC FON TY E 30D	LF	45				_				45	
8000170	SH 1F 3S MAM	EACH	1		_	<u> </u>	~				1	
800029D	SH 1F 5S MAM	EACH	3	T		l					3	
8200210	TS BACKPLATE LOU ALUM	EACH	4								4	
8500100	INDUCTIVE LOOP DETECT	EACH	3		_				-		3	
8600100		L.F	350		~						350	
870030D	LIGHT DETECTOR AMP	EACH	1						-		1	
9000100	TEMP TR SIG INSTALL	EACH							-		1	
9500100	RELOC EX SIG HEAD	EACH	ļ1				~				1	
9501250	RELOC EX TS EQUIP	EACH	2	ļ		ļ			-		2	
9501400 9502200	REL EM VEH PR SYS D U	EACH		 		ļ					1	
9502200	MOD EX CONTR	EACH	1000			ļ				ļ	1 1	
502375	REM ELCBL FR CON REMOV EX TS EQUIP	LF EACH	1500			 		·		-	1,500	
9502375	REMOV EX IS EQUIP	EACH	3	 		 	-					
	CURB CUT	I.F.	65	 	-				<u> </u>		5 65	
323336	LED SF RETRO RED BALL	EACH	6			ļ	<u>-</u>				6	
323337	LED SF RETRO GRN BALL	EACH	Š			 					6	
032341B	LED SF RETRO YEL BALL	EACH	<u> </u>			 			-		6	
	LED SF RETRO YEL AROW	EACH	i						_	 	<u> </u>	
0323420	LED SF RETRO GRN AROW	EACH	11								1	-
0323421	LED SF RETRO WALK SIG	EACH	2		~		~	~~~~~	_		2	
	LED SF RETRO DONT WLK	EACH	2		~		_				2	
8730250	ELCBL C 20 3C TW SH	LF	250						-		250	
	RELOC EXIST HANDHOLE	EACH	1		-				-		1	
	RE-OPTIMIZE TR SIG SY	LS	1	ļ							1	
.0001050	AGG SUBGRADE 12	SY	410	ı	ı <i>–</i>	I					410	

NOTES:

WORK WITHIN COOK COUNTY RIGHT-OF-WAY SHALL BE PAID FOR UNDER IDOT-STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SPECIFIED PAY ITEMS EXCEPT FOR THE FOLLOWING:

- . ACCESS DRIVE PAVEMENT WITH CURB AND GUTTER
- . LANDSCAPING AND TOPSOIL PLACEMENT
- WATERMAIN INCLUDING BORING AND JACKING

THE ABOVE LISTED ITEMS SHALL BE PAID FOR UNDER IDOT-STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS SPECIFIED PAY ITEMS

LA034 PATH: K:\0051101\sheets\
FILE: qty.dwg
UPDATE BY: tmarin
SURVEY BOOK # XREF DWG: XREF DWG: DATE: Tue 4/23/04 11:16am REVISIONS NUMBER BY DATE ARM 6/10/05 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). NORTH QUADRANT SITEWORK - PHASE AND TAXIWAY G2 EXTENSION QUANTITIES LANSING MUNICIPAL AIRPORT LANSING, ILLINOIS P ARY

> airpor CRAWFORD, A CONSULTING I DESIGN BY: ARM DRAWN BY:

S

JOB No: 03297-02 IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-821

CHECKED BY:

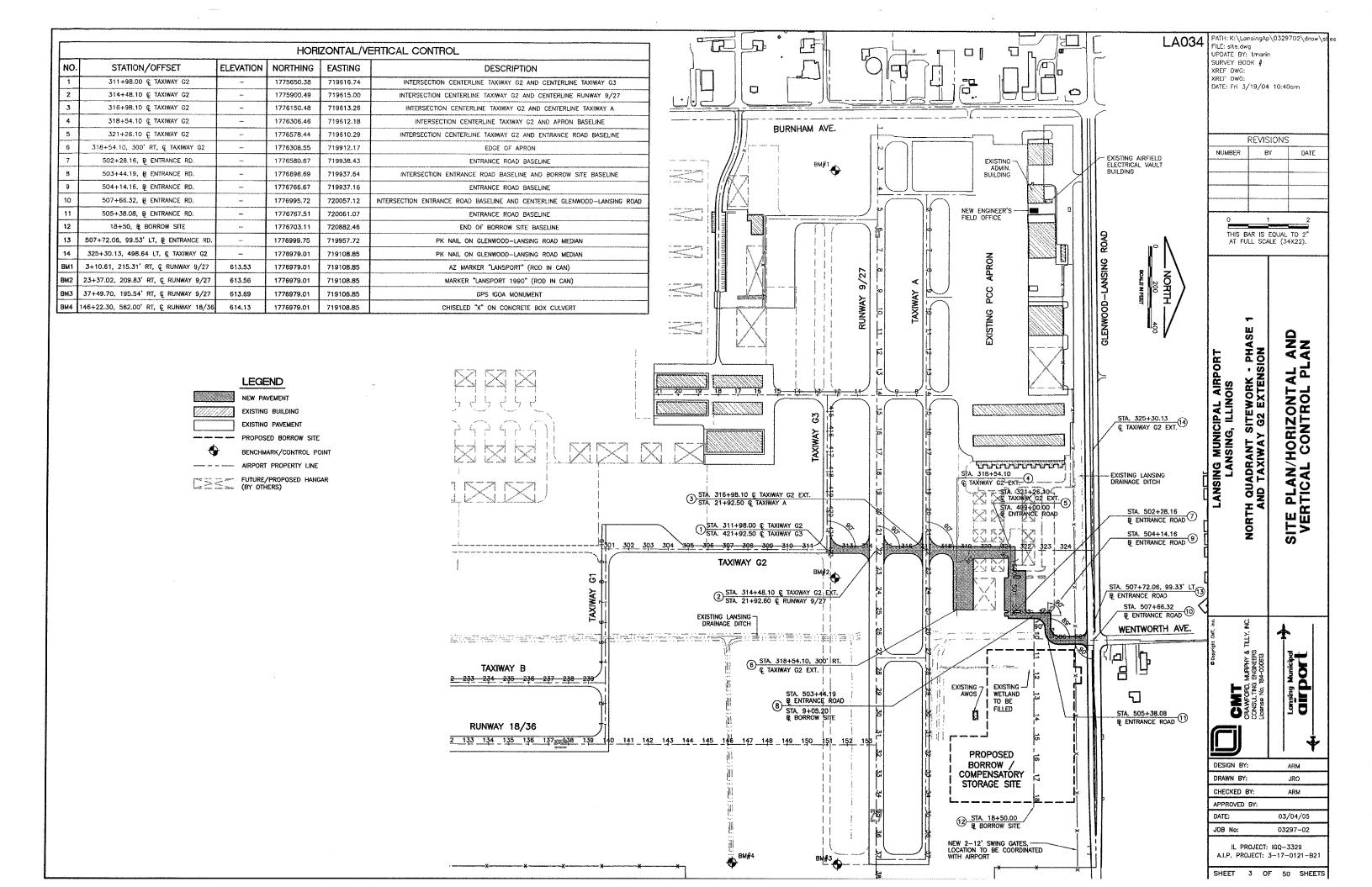
APPROVED BY: DATE:

ARM

ARM

03/04/05

SHEET 2 OF 50 SHEETS



GENERAL NOTES

- 1. THE SUGGESTED SEQUENCE OF CONSTRUCTION SHOWN IS INTENDED TO ALLOW FOR THE ORDERLY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WHILE MAINTAINING AIRCRAFT ACCESS AT ALL TIMES.

 THE PHASING SHOWN IS A SUGGESTED SEQUENCE OF CONSTRUCTION ONLY. THIS SEQUENCE MAY BE
 MODIFIED HOWEVER, ALTERNATE STACING PLANS MUST MAINTAIN AIRPORT OPERATIONS TO THE SATISFACTION OF THE AIRPORT MANAGER AND RESIDENT ENGINEER AND BE APPROVED BY THE DIVISION OF AERONAUTICS AND FEDERAL AVIATION ADMINISTRATION.
- 2. ALL OPERATIONS SHALL BE IN CONFORMANCE WITH AC 150/5370-2E (LATEST EDITION) SAFETY DURING
- CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
- 4. THE AIRPORT MANAGER IN CONSULTATION WITH THE RESIDENT ENGINEER SHALL HAVE FINAL SAY IN THE APPROVAL OF THE CONSTRUCTION OPERATING SEQUENCE AS IT RELATES TO PEDESTRIAN, VEHICULAR AND
- ALL EXISTING PAVEMENTS, DRIVES OR ANY OTHER AREAS USED AS A HAUL ROAD OR STORAGE AREA BY THE CONTRACTOR SHALL BE RESTORED IN KIND TO THEIR PRE-CONSTRUCTION CONDITION OR TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER. THE COST OF MAINTAINING, REPAIRING OR CONSTRUCTING THESE PAVEMENTS AND AREAS SHALL BE INCIDENTAL TO THE CONTRACT, EXISTING ARRAS OUTSIDE THE PROJECT LIMITS WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND THE
- THE CONTRACTOR SHALL KEEP ALL TRUCKS, EQUIPMENT AND MATERIALS OFF OF THE EXISTING TAXIMAYS, APRONS AND RUNWAYS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN OR WITH THE PRIOR PERMISSION OF THE ENGINEER.
- WORK PERFORMED BY THE CONTRACTOR OUTSIDE OF DAYLIGHT HOURS SHALL BE DONE UNDER SUFFICIENT ARTIFICIAL LIGHTING TO ALLOW FOR PROPER CONSTRUCTION METHODS AND INSPECTIONS, LIGHT SHALL CONSIST OF MOVABLE POLE MOUNTED FLOODLIGHTS AND/OR SPOTLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL BE ALLOWED ONLY IN ADDITION TO OTHER LIGHTS MENTIONED ABOVE, LIGHTING SHALL BE AS APPROVED BY THE ENGINEER AND SHALL NOT BE USED IF THEY AFFECT FLIGHT SAFETY. CONTRACTOR'S WORK HOURS SHALL BE IN ACCORDANCE WITH LOCAL
- THE CONTRACTOR SHALL PROVIDE PORTABLE FLOOD LIGHTING FOR NIGHTTIME CONSTRUCTION. SUFFICIENT UNITS SHALL BE PROVIDED SO THAT WORK AREAS ARE ILLUMINATED TO A LEVEL OF FIVE HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. LIGHTS SHALL BE POSITIONED SO AS TO INTERFERE WITH AIRPORT OPERATIONS.
- 9. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. WHEN ACTIVE ARFIELD PAVEMENTS ARE UTILIZED AS HAUL ROADS BY THE CONTRACTOR, MATERIAL TRACKED ON TO THE PAVEMENT SHALL BE CONTINUALLY REMOVED WITH SAID SWEEPER. THIS SWEEPING SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 10. MATERIALS REMOVED FROM THE PROJECT WILL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED
- 11. FOR WORK ON AIRPORT PROPERTY: PAYMENT FOR TRAFFIC CONTROL INCLUDING, BUT NOT LIMITED TO EQR WORK ON AIRPORT PROPERTY PATMENT FOR TRAFFIC CONTROL INCUDING, BUT NOT UMID TO BARRICADES, SIGNING, RUNWAY CLOSED MARKERS, AIR OPERATIONS AREA (A.O.A.) LATHE AND RIBBON, ETC. SHALL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. BARRICADES AT 10—FOOT CENTERS WITH ONE ORANGE FLAG (24" x 24") BETWEEN EACH SET OF BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE WEIGHTED TO PREVENT BLOWING OVER. BARRICADES SHALL HAVE A FLASHING RED LIGHT AND CONFORM TO 100T STANDARD 702001, TYPE II. BARRICADE INSTALLATION WILL BE REQUIRED PRIOR TO ACCESS TO THE A.O.A. BY CONTRACTOR'S WORKERS, EQUIPMENT OR MATERIAL SIGNS SHALL BE PLACED AT EACH TAXIWAY/RUNWAY CLOSURE LOCATION AND SHALL BE ATTACHED TO THE BARRICADES. EACH RRICADE LOCATION SHALL CONSIST OF ONE "DO NOT ENTER" SIGN AND ONE "AIRCRAFT MOVEMENT AREA" SIGN, SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL CONTACT THE AIRPORT MANAGER (5) WORKING DAYS IN ADVANCE OF THE START
 OF CONSTRUCTION SO THAT THE APPROPRIATE NOTAMS MAY BE ISSUED.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL CONSTRUCTION ACCESS GATES CLOSED DURING NON WORKING HOURS. THE CONTRACTOR SHALL PROVIDE A SIGN AT THE ACCESS GATE SAYING "AUTHORIZED PERSONNEL ONLY". THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE UPON LEAVING THE SITE. THROUGHOUT THE DURATION OF THE CONTRACT, ANY DAMAGES TO THE ACCESS ROAD, ACCESS GATE OF FERCING ADJACENT TO THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL COST RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 14. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS AND HAVE BEACON LIGHTS ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. SEE FLAG DETAIL, THIS SHEET.
- IN THE CASE OF AN EMERGENCY, CONTRACTOR SHALL NOTIFY AIRPORT MANAGER AND THE ENGINEER IMMEDIATELY.
- 16. DURING ADVERSE WEATHER, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK.
- 17. THE TALLEST PIECE OF CONSTRUCTION EQUIPMENT IS ANTICIPATED TO BE AN ASPHALT/STONE TRUCK WHICH HAS A MAXIMUM HEIGHT OF 18 FEET IN A DUMP POSITION.
- 18. IF RUNWAY NUMERALS ARE PRESENT DURING CONSTRUCTION THEN CONTRACTOR SHALL PLACE CLOSED RUNWAY MARKER OVER NUMERALS AS DETAILED, OTHERWISE PLACE RUNWAY CLOSED MARKER IN TURF AT EXAMPLE OF BUNWAY AS RETAIN FOR THE PLACE RUNWAY CLOSED MARKER IN TURF AT EXAMPLE OF BUNWAY AS RETAIN FOR
- 19. LANSING MUNICIPAL AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE AIRPORT IS MANDATORY SO AS TO MINIMIZE IMPACTS ON AIRPORT
- 20. APPROXIMATE LOCATION OF HAUL ROUTES ON THE AIRPORT SITE ARE SHOWN ON THE GENERAL PROJECT LAYOUT AND THE PHASING PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. THE BEFORE AND AFTER CONDITION OF ON—SITE HAUL ROUTES SHALL BE JOINTLY INSPECTED AND DETERMINED BY THE CONTRACTOR AND THE ENGINEER, FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND

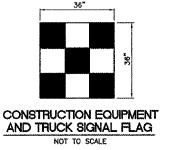
- 21. MOBILIZATION/FOUIPMENT STORAGE AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THIS AREA SHALL BE RESTORED TO THE ORIGINAL CONDITION UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.
- 22. LOCATION OF KNOWN EXISTING AIRPORT UNDERGROUND CABLES ARE SHOWN ON THE PLANS AND MUST BE VERIFIED BY THE CONTRACTOR. REPAIR OF DAMAGED CABLE MUST BE STARTED IMMEDIATELY AND CONTINUED UNTIL COMPLETED. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, OR AS DIRECTED BY THE OWNER OF THE CABLE, AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE FROM POINT TO POINT IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF A FAA REPRESENTATIVE. THE OWNER MAY ELECT TO HAVE THE REPAIR PERRFORMED BY OTHERS IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS.
- 23. COORDINATION MEETINGS THE CONTRACTOR SHALL CONDUCT WEEKLY COORDINATION MEETINGS TO DISCUSS WORK AREAS AND SCHEDULING, ETC. WITH THE ENGINEER, AIRPORT OPERATIONS, FAA, AND OTHER APPROPRIATE OFFICIALS. MINUTES FROM THE WEEKLY MEETINGS SHALL BE PREPARED BY THE CONTRACTOR, FURNISHED TO ALL ATTENDEES PRIOR TO THE SUBSEQUENT MEETING, AND KEPT ON FILE AT THE FIELD OFFICE. THE COORDINATION MEETING COSTS SHALL BE CONSIDERED INCIDENTAL TO THE
- 24. THE CONTRACTOR SHALL PROVIDE THE PHONE NUMBERS OF THREE PERSONNEL, INCLUDING THE PROJECT SUPERINTENDENT, WHO MAY BE CONTACTED IN AN EMERGENCY, PERSONNEL SHALL BE ON CALL 24 HOURS PER DAY FOR MAINTAINING AIRPORT HAZARD LIGHTING AND BARRICADES.
- 25. DRAINAGE MODIFICATIONS SHALL BE SEQUENCED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AT NO ADDITIONAL COST TO THE CONTRACT. EXISTING LANSING DRAINAGE FLOWS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 26. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 65' FROM ACTIVE TAXIWAYS AND 125' FROM ACTIVE RUNWAYS UNLESS OTHERWISE APPROVED BY THE AIRPORT MANAGER.
- CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A MANNER AS NOT TO VIOLATE FEDERAL AVIATION ADMINISTRATION PART 77 SURFACES OR RUNWAY AND TAXIWAY SAFETY AREAS.
- 28. ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER ELECTRICAL CABLES SHALL REMAIN IN SERVICE AT ALL TIMES. ALL EXISTING LIGHTING AND VAULT EQUIPMENT SHALL REMAIN IN SERVICE UNTIL PROPOSED IMPROVEMENTS ARE INSTALLED AND OPERATIONAL, UNLESS OTHERWISE APPROVED BY THE ENGINEER. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE MMEDIATELY REPAIRED AT HIS EXPENSE.
- 29. COORDINATION BY THE CONTRACTOR WITH THE EXISTING UTILITIES SHALL BE COMPLETED BEFORE CONSTRUCTION IS STARTED, CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS CONSTRUCTION IS STARTED. CONTRACTOR IS REFERRED TO SECTION 50-17 OF THE SPECIAL PROVISIONS FOR SPECIFIC REQUIREMENTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER OR THE DESION ENGINEER ASSUME ANY RESPONSIBILITY WHATEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE MATERIAL OF EXISTING UNDERGROUND UTILITIES AS INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLIDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER.
- 30. ALL AIRFIELD LIGHTING AND LIGHTING GUIDANCE SYSTEMS (NAVAIDS) LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONTRACTORS WORK ZONE SHALL BE CHECKED FOR OPERATIONAL CONDITION PRIOR TO THE DEPARTURE FROM THE AIRPORT WITH THE AIRPORT MAINTENANCE. ANY DEFECIENCIES IN THESE SYSTEMS DUE TO THE ACTS OF CONTRACTOR OR HIS SUBCONTRACTORS, SUPPLIERS OR CONSULTANTS SHALL BE REPAIRED IMMEDIATELY.

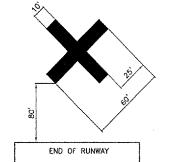
CONTRACTOR CROSSING RUNWAY AND TAXIWAY AIR OPERATIONS AREA (A.O.A.)

ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO ANYTIME THE CONTRACTOR IS REQUIRED TO UTILIZE OR CROSS ACTIVE AIRFIELD PAVEMENTS FOR ACCESS TO AND FROM THE WORK ZONE, A FULL TIME CROSSING QUARD IN RADIO CONTROL WITH THE AIR TRAFFIC SHALL BE FURNISHED BY THE CONTRACTOR FOR MOVEMENTS OF VEHICLES OR EQUIPMENT TO AND FROM THE WORK ZONE. THE RADIO OPERATOR SHALL BE FAMILIAR WITH AIRPORT GROUND CONTROL PROCEDURES AND DEMONSTRATE KNOWLEDGE OF SAME TO THE AIRPORT. THE AIRPORT RESERVES THE RIGHT TO APPROVE THE CROSSING GUARDS. THE CONTRACTOR SHALL PROVIDE THEIR OWN RADIOS. THIS COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF MUNICIPAL FINES (\$500 PER OCCURENCE) DUE TO AIRFIELD INCURSIONS BY HIS EMPLOYEES, SUBCONTRACTORS, SUPPLIERS, CONSULTANTS AND/OR AGENTS.

ANY PAVEMENT DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY HIM TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT MANAGER AT NO ADDITIONAL COST TO THE OWNER. PAVEMENT SHALL BE CONTINUALLY SWEPT TO PROVIDE DEBRIS FREE SURFACE DURING ALL HAUL ROAD OPERATIONS. THIS COST SHALL NOT BE PAID SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE

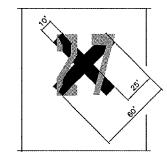
WORK WITHIN THE A.O.A. SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE A.O.A. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW ARRORAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TWO (2) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.





OFF PAVEMENT CLOSED RUNWAY MARKER DETAIL

NO SCALE



DESIGN AIRCRAFT APPROACH CATEGORY: B DESIGN AIRPORT GROUP: II

MAXIMUM ANTICIPATED HEIGHT OF CONSTRUCTION EQUIPMENT: 20'

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE LATITUDE: 41'32'23.21"N (NAD 83) LONGITUDE: 87'31'52.28"W (NAD 83) EXISTING ELEVATION: 614.11

POINT "B" POINT B'
NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE
RUNWAY 18/36 OFFSET FROM CENTERLINE EXTENDED
LATITUDE: 41'32'21.27'N (NAD 83)
LONGITUDE: 87'31'47.68'W (NAD 83)
EXISTING ELEVATION: 614.00

POINT "C"

NEAREST POINT ON CONSTRUCTION SITE TO ACTIVE RUNWAY 18/36 OFFSET FROM CENTERLINE EXTENDED LATITUDE: 41'32'27.25"N (NAD 83) LONGITUDE: 87'31'39.54"W (NAD 83) EXISTING ELEVATION: 613.80

CONTRACTOR SHALL PLAN AND PERFORM HIS WORK SO AS NOT TO INTERFERE OR HINDER THE PROGRESS, WORK OR HAUL ROAD ACCESS OF OTHER CONTRACTORS (SEE SPECIAL PROVISIONS SECTION 30-05). THE PRIME CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE CONSTRUCTION ACTIVITIES AND ACCESS BETWEEN ALL ON-SITE CONTRACTORS SUBCONTRACTORS. IT IS NOT ANTICIPATED THE FOLLOWING PROJECTS MAY BE UNDER

- HANGAR CONSTRUCTION AT MAIN APRON. · HANGAR CONSTRUCTION AT NORTH QUADRANT
- SITEWORK.

 RUNWAY 36 LOCATOR INSTALLATION.

ON PAVEMENT CLOSED RUNWAY MARKER DETAIL

CLOSED RUNWAY MARKER DETAIL NOTES

- 1. CLOSED RUNWAY MARKERS SHALL BE YELLOW
- 2. MARKERS SHALL BE MATERIAL APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL MAINTAIN AND RELOCATE MARKERS AS SHOWN ON THE PLANS OR AS NEEDED TO FACILITATE CONSTRUCTION
- 4. MARKERS ON PAVEMENT SHALL BE PLACED OVER EXISTING RUNWAY NUMERALS AS SHOWN.
- COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING MARKERS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- DURING VARIOUS PHASES OF WORK, IT WILL BE NECESSARY TO CLOSE RUNWAYS TO AIR TRAFFIC ON A TEMPORARY BASIS AS COORDINATED WITH THE AIRPORT AND TOWER PERSONNEL. THE CONTRACTOR SHALL MARK THE RUNWAYS TO BE CLOSED BY PLACING A YELLOW CROSS AT THE LOCATION AND DIMENSIONS DETAILED ON THIS SHEET. THE CROSSES ARE SHOWN ON THE RESPECTIVE RUNWAYS ACCORDING TO THE VARIOUS PHASES OF WORK AS DELINEATED IN THE SUGGESTED SEQUENCE OF CONSTRUCTION.

LIMITATIONS ON CONSTRUCTION WITHIN AIRPORT OPERATIONS AREA (A.O.A.)

RUNWAYS:

ANY WORK WITHIN 125' OF THE CENTERLINE OF AN ACTIVE RUNWAY SHALL EITHER BE DONE ON WEEKENDS, OFF-PEAK DAYTIME OR NIGHTIME HOURS, LOCAL TIME AS SHOWN ON THE SEQUENCE OF CONSTRUCTION PLAN SHEETS. ON ANY DAY WHEN CONSTRUCTION IS WITHIN 125' OF THE CENTERLINE OF THE RUNWAY, THE RUNWAY SHALL BE CLOSED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TWO (2) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

STEEL PLATES IF NECCESSARY SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR TO COVER ANY OPEN TRENCHES OR EXCAVATION WITHIN THE A.O.A. IF DURING RUNWAY CLOSURE AN EMERGENCY IS DECLARED, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE RUNWAY OF ALL VEHICLES, MEN AND EQUIPMENT.

TAXIWAYS / TAXILANES / APRONS:

CONSTRUCTION WILL BE ALLOWED UP TO THE EDGE OF PAVEMENTS WITHOUT CLOSURE ON A LIMITED BASIS. WORK WITHIN THE A.O.A. SHALL BE EXPEDITED. ANY DROP OFF SHALL BE ADEQUATELY LIGHTED, SIGNED AND BARRICADED. NO MATERIAL SHALL BE STOCKPILED WITHIN THE A.O.A. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO TEMPORARILY RELOCATE EQUIPMENT TO ALLOW AIRCRAFT TO PASS, THEY SHALL DO SO AT NO EXTRA COST TO THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT MANAGER TWO (2) WORKING DAYS IN ADVANCE OF ANY PLANNED CONSTRUCTION WITHIN THESE LIMITS.

NOTE - ALL PHASES

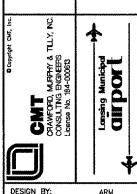
ALL EXISTING TAXIWAY AND RUNWAY AIRFIELD LIGHTING CIRCUITS, FAA CABLES AND OTHER AIRPORT ELECTRICAL CABLES SHALL REMAIN IN SERVICE UNTIL REPLACED AS ACCEPTABLE TO THE RESIDENT ENGINEER ALL TEMPORARY CABLING AND SPLICING NECESSARY TO KEEP THE CIRCUITS IN OPERATION SHALL BE CONSIDERED INCIDENTAL TO CONTRACT.

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> REVISIONS BY NUMBER DATE

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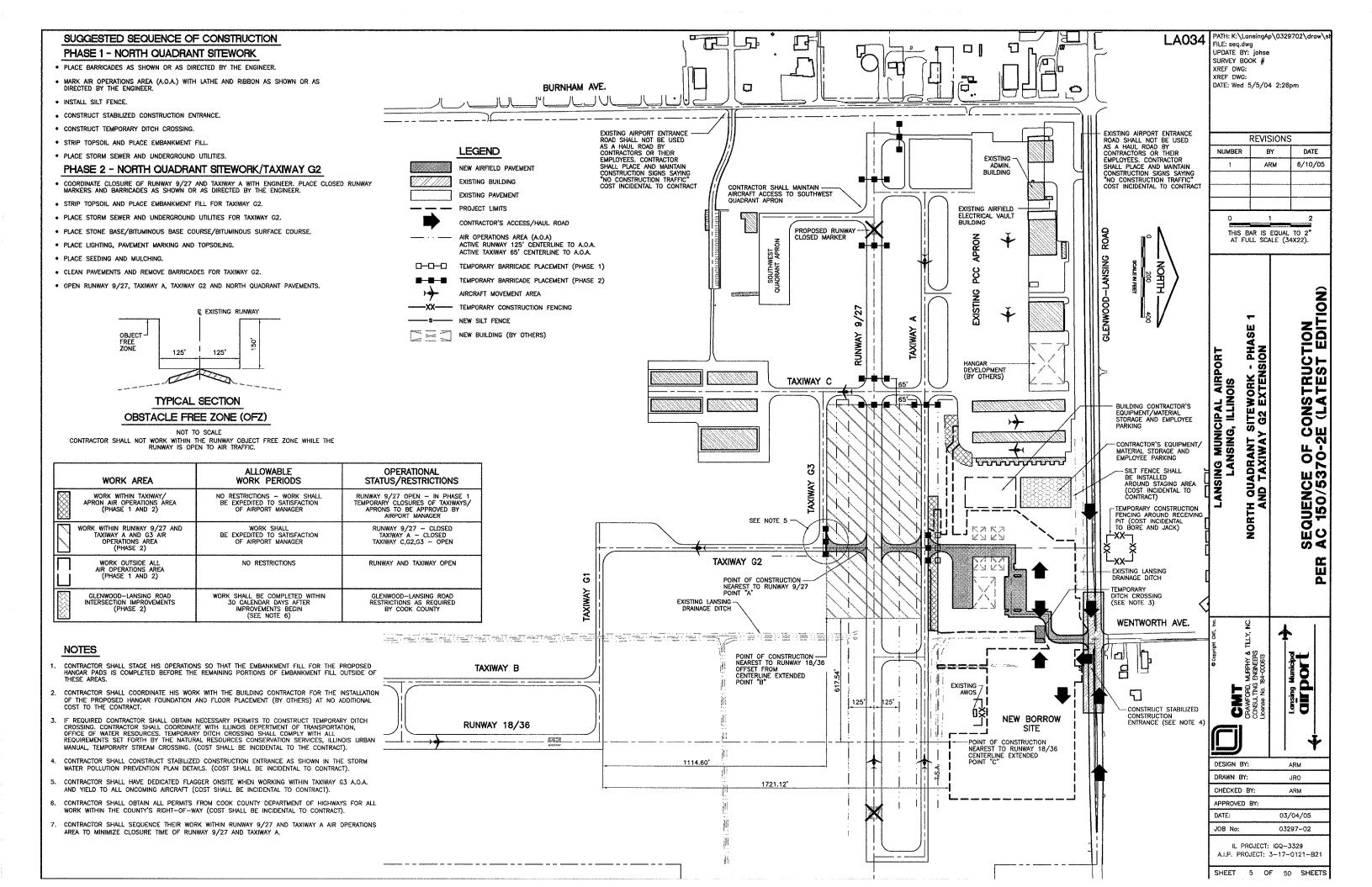
PHASE ION Сim Ž d ING MUNICIPAL AIRP LANSING, ILLINOIS SITEWORK Y G2 EXTEN STR Ž SS QUADRANT ÖQ ш SEQUENCE GENERAL NORTH

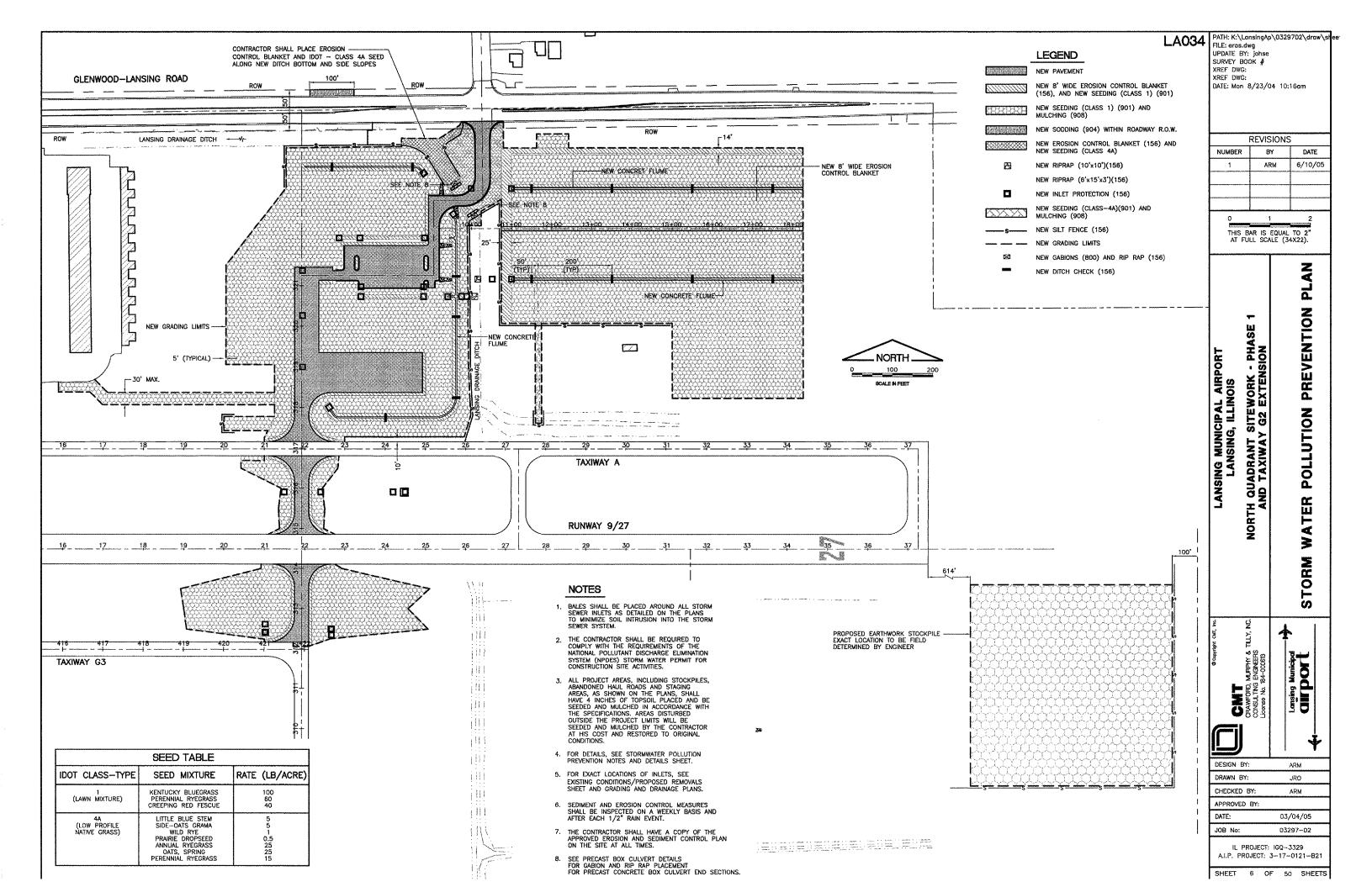


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IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B2

SHEET 4 OF 50 SHEETS





STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE WITH NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIMEFRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING, WHICH WILL BE THE SUBJECTIBLE TO EXCISION AND REDUCTION THE AMOUNT OF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE PLANS.

SITE DESCRIPTION

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

THIS PROJECT CONSISTS OF CONSTRUCTING A NEW APRON TAXIWAY EXTENSION AT THE LANSING MUNICIPAL AIRPORT. THE PROJECT INCLUDES EXCAVATION, EMBANKMENT, DRAINAGE, VARIOUS PAVEMENT ITEMS, FENCING, ELECTRICAL IMPROVEMENTS AND OTHER MISCELLANEOUS CONSTRUCTION WORK.

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS

- 1. EXCAVATION AND EMBANKMENT WILL BE COMPLETED WITHIN THE PROJECT LIMITS TO GRADE OUT FOR THE PROPOSED DRAINAGE AND PAVEMENT IMPROVEMENTS.
- 2. UNDERDRAIN INSTALLATION AND MANHOLE ADJUSTMENTS.
- PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER SILT FENCE AND INLET PROTECTION.
- 4. PAVEMENT CONSTRUCTION.
- 5. FENCING AND ELECTRICAL IMPROVEMENTS.
- 6. FINAL GRADING AND OTHER MISCELLANEOUS ITEMS.
- 7. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS SEEDING AND MULCHING.

AREA OF CONSTRUCTION SITE

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 27.8 ACRES OF WHICH 27.8 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

- INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
- PROJECT PLAN DOCUMENTS, SPECIFICATION AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

THE CONSTRUCTION SITE DRAINS INTO THE LANSING DRAINAGE DITCH THROUGH A STORM SEWER SYSTEM.

THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (SWCD) IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER. THE ADDITIONAL PRACTICES (IF REQUIRED) SHALL BE COORDINATED WITH THE RESIDENT ENGINEER BEFORE WORK

THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO FINAL INSPECTION.

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2 INCH OF RAIN OR MORE BY THE RESIDENT ENGINEER.

ALL SOIL FROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE HURNOIS LIRBAN MANUAL

THE DRAWINGS. SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, INLET PROTECTION AND PERIMETER SILT FENCE SHALL BE INSTALLED AS CALLED OUT IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.

- WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTORS EXPENSE, IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- 3. AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
- A. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
- B. CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
- C. BUILD NECESSARY EMBANKMENT AT CULVERT/STORM SEWER LOCATIONS AND THEN EXCAVATE AND PLACE
- D. EXCAVATED AREAS AND EMBANKMENT AREAS SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED, AT THE CONTRACTOR'S COST, IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR SEVEN DAYS.
- 4. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR
- 5. SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR UNCLASSIFIED EXCAVATION AND
- 6. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS ARE SEEDED AND ESTABLISHED.

ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION

CONSTRUCTION IS COMPLETE AFTER FINAL ACCEPTANCE BY THE ILLINOIS DIVISION OF AERONAUTICS. MAINTENANCE UP TO THIS DATE WILL BE REQUIRED BY THE CONTRACTOR.

CONTRACTORS

- 1. THE STORM WATER POLLUTION PREVENTION PLAN MUST CLEARLY IDENTIFY FOR EACH MEASURE IDENTIFIED IN THE PLAN, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE, ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST SIGN A COPY OF THE CERTIFICATION STATEMENT IN PARAGRAPH 2 BELOW IN ACCORDANCE WITH PART VIG (SIGNATORY REQUIREMENTS) OF THIS PERMIT. ALL CERTIFICATIONS MUST BE INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN EXCEPT FOR OWNERS THAT ARE ACTING AS CONTRACTOR.
- CERTIFICATION STATEMENT. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH PARAGRAPH 1 ABOVE SHALL SIGN A COPY OF THE FOLLOWING CERTIFICATION STATEMENT BEFORE CONDUCTING ANY PROFESSIONAL SERVICE AT THE SITE IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (1LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED

THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE IN ACCORDANCE WITH PART VI.G OF THIS PERMIT: THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM; THE ADDRESS (OR OTHER IDENTIFYING DESCRIPTION) OF THE SITE: AND THE DATE THE CERTIFICATION IS MADE.

CONTRACTOR CERTIFICATION								
"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (1LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."								
GENERAL CONTRACTOR								
SIGNATURE	TITLE	DATE						
COMPANY								

OWNER INFORMATION

18200 CHICAGO AVE

BLINIOS ENVIRONMENTAL PROTECTION AGE NOTICE OF INTENT (NOI) GENERAL PENMT TO DISCHARGE STORM SEWER CONSTRUCTION SITE ACTIVITIES

**MATION FIRST M. (SEE INSTRUCTIONS) OWNER TYPE (SELECT ONE AND TYPE "X")

VILLAGE OF LANSING ILLINOIS PRIVATE COUNTY [12200 CHICAGO AVE

IMPORTANT: FORM MUST BE TYPED TO ENABLE AUTOMATED OPTICAL PROCESSING.

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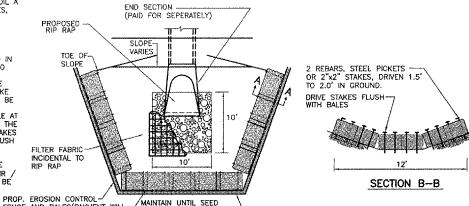
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IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-821 SHEET 7 OF 50 SHEETS

NOTES

- BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON A CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES. AND PLACED SO THE BINDINGS ARE
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE, THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE
- BALES SHALL BE BE MADE FOR FENCE AND BALESY HAVE SPEVEN THEN HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE, COST OF REMOVAL / REPLACEMENT TO BE INCLUDED IN UNIT PRICE FOR BALES.
- AFTER FINAL APPROVAL OF THE ENGINEER, STRAW BALES MAY BE REMOVED. OVER THE DISTURBED AREAS COST INCIDENTAL

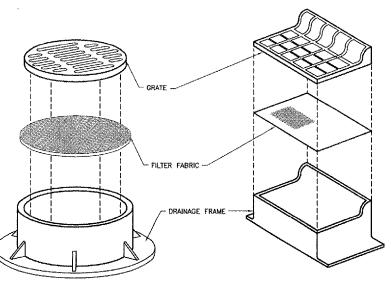
SEE NRCS STANDARD DRAWING NO. IL-508 SF FOR ADDITIONAL INSTALLATION DETAILS AND NOTES USED FOR TEMPORARY EROSION CONTROL. DETAIL BELOW SHALL BE USED AFTER RIP RAP IS PLACED



INLET/OUTLET PROTECTION (END SECTION)

SEE NOTE 6-

WELL ESTABLISHED



NOTES

- FILTER WRAP TO BE PLACED IN ALL EXISTING/PROPOSED INLETS, MANHOLES, TRENCH DRAINS AND CATCH BASINS LOCATED IN PAVED AREAS AND NONPAVED AREAS.
- FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR SILT FENCE.
- FABRIC SHALL OVERLAY FRAME BY 2" (MIN.).
- CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
- FABRIC SHALL REMAIN IN PLACE UNTIL TURFED AREAS HAVE DEVELOPED A MIN. OF 80%
- COST OF FILTER WRAP SHALL BE CONSIDERED INCIDENTAL TO BALES.

DRAINAGE STRUCTURE FILTER WRAP

STAPLES ~ - DIKE SECTION APRON -SILT DIKE UNIT PLAN STAPLES FLOW --- >> TRENCH SIDE ELEVATION POINT B - DIKE SECTION POINT A MUST BE HIGHER THAN POINT B TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

FRONT ELEVATION URETHANE FOAM/GEOTEXTILE DITCH CHECK

NOT TO SCALE FROM IDOT STANDARD 2B0001-02

SEE NRCS STANDARD DRAWING NO. IL-620 SILT FENCE PLAN FOR INSTALLATION DETAIL AND ADDITIONAL NOTES

CONSTRUCTION NOTES FOR SILT FENCE

1, WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" MIN. AND FOLDED.

(7 PER SECTION)

- 2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. MAINTENANCE, WHICH INCLUDES THE REPLACEMENT OF DAMAGED FENCE, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EROSION CONTROL FENCE.
- 3. SILT FENCE SHALL BE INSTALLED PER STORM WATER POLLUTION PREVENTION PLAN OR AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FABRIC FENCE DETAIL

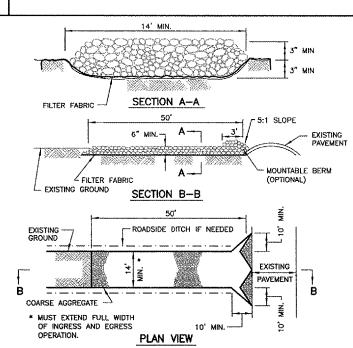
SEE NRCS STANDARD DRAWING NO. IL-530 EROSION BLANKET PLAN FOR INSTALLATION DETAIL AND NOTES

SEE NRCS STANDARD DRAWING NO. IL-563 INLET PROTECTION STRAW BALE BARRIER PLAN FOR INSTALLATION DETAIL AND ADDITIONAL NOTES

- BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON A CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL, BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR / REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. COST OF REMOVAL / REPLACEMENT TO BE INCLUDED IN UNIT PRICE FOR
- AFTER FINAL APPROVAL OF THE ENGINEER, STRAW BALES MAY BE REMOVED. CONTRACTOR SHALL PLACE TOPSOIL, SEED AND MULCH OVER THE DISTURBED AREAS, COST INCIDENTAL TO BALES.

INLET PROTECTION - TURF AREAS

N.T.S.



- 1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFIED FOR AR152540 IN THE ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS SUPPLEMENTAL SPECIFICATIONS AND RECURING SPECIAL PROVISIONS.
- ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4.
- ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 4. MINIMUM WIDTH IS 14' FOR ONE-WAY TRAFFIC AND 20' FOR TWO WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4' FOR TRAILER TRAFFIC. DEPENDING ON THE TYPE OF VEHICLE OR EQUIPMENT, SPEED, LOADS, CLIMATIC AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTHS MAY BE
- 5. ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.
- 6. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INCIDENTAL TO THE CONTRACT.

STABILIZED CONSTRUCTION ENTRANCE

FROM NRCS STANDARD DRAWING NO. IL-630

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> **REVISIONS** NUMBER BY DATE

THIS BAR IS FOUAL TO 2'

ZO PREVENTI ING MUNICIPAL AIRPOF LANSING, ILLINOIS **₽**₽ 7 글로

ÖZ 4 띪디 Ŧ₹ STORM

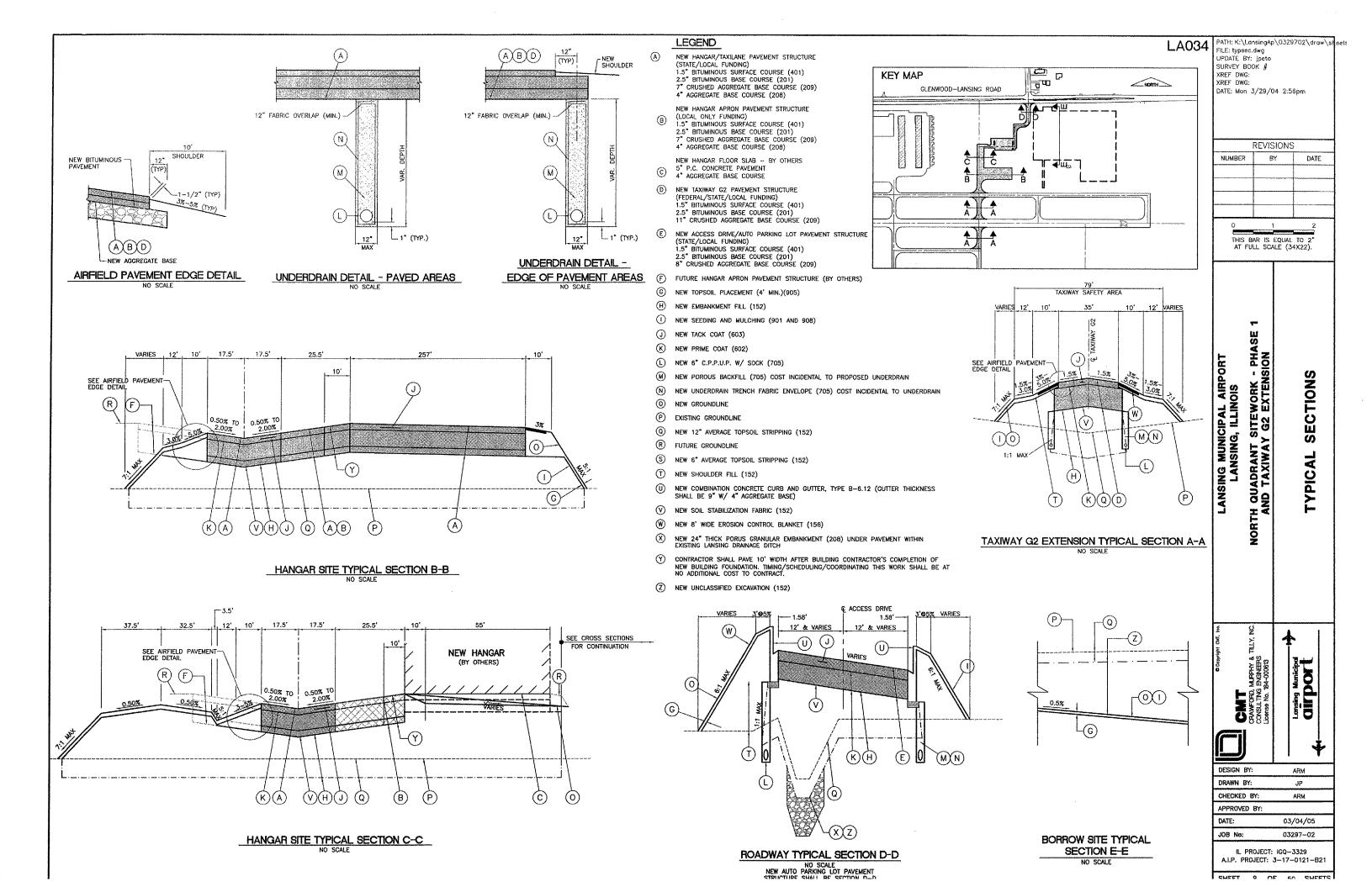
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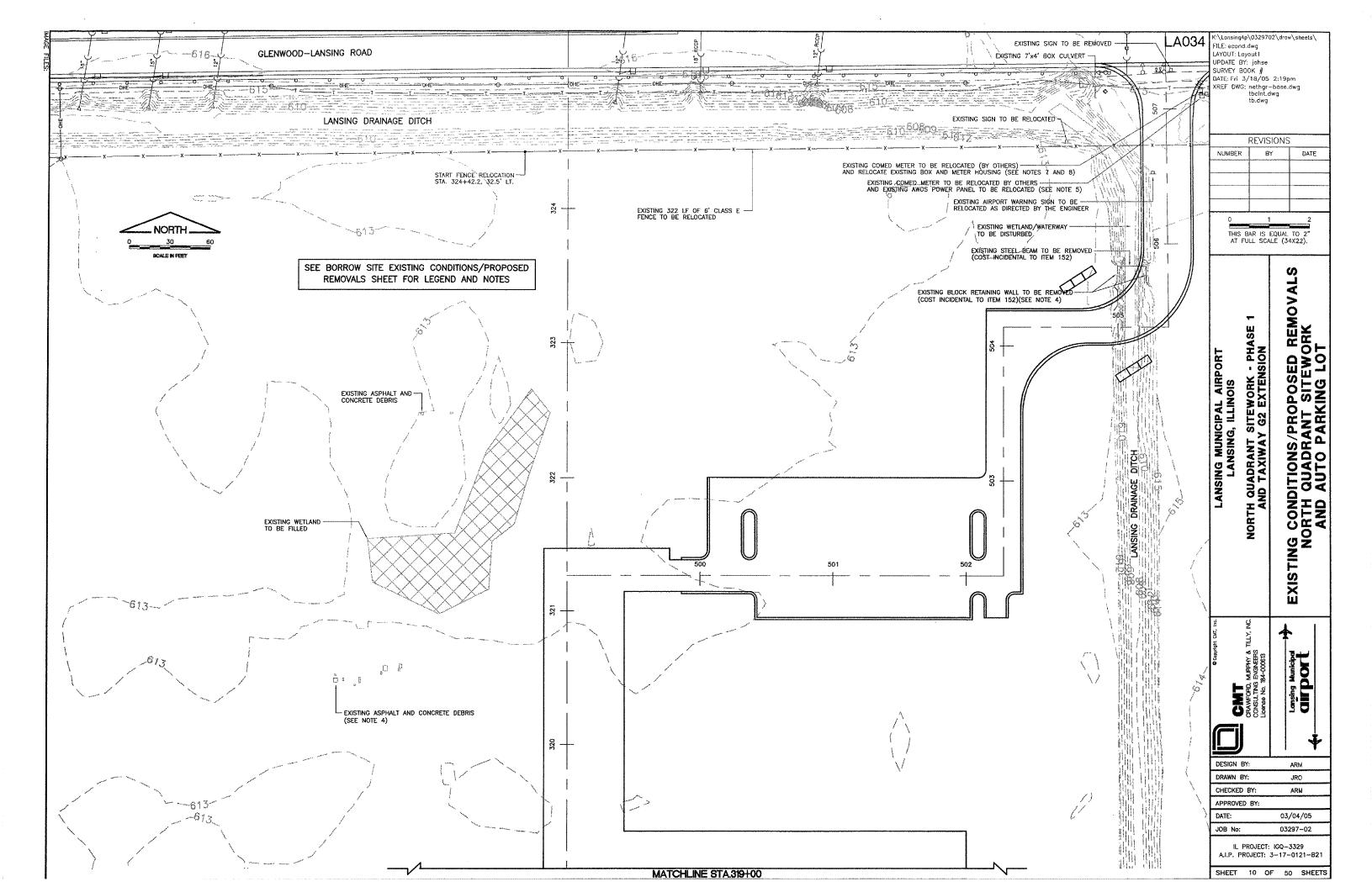
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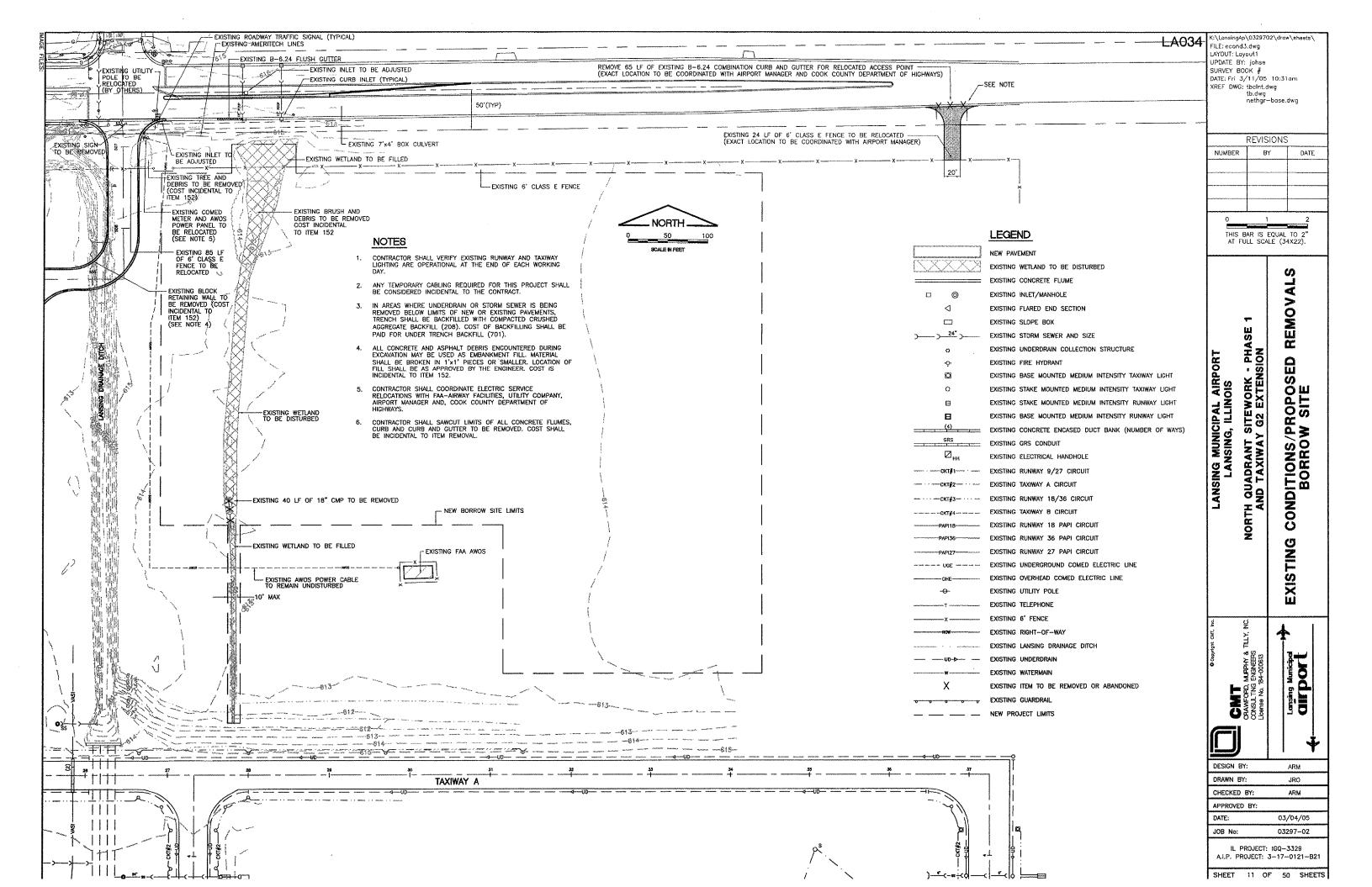
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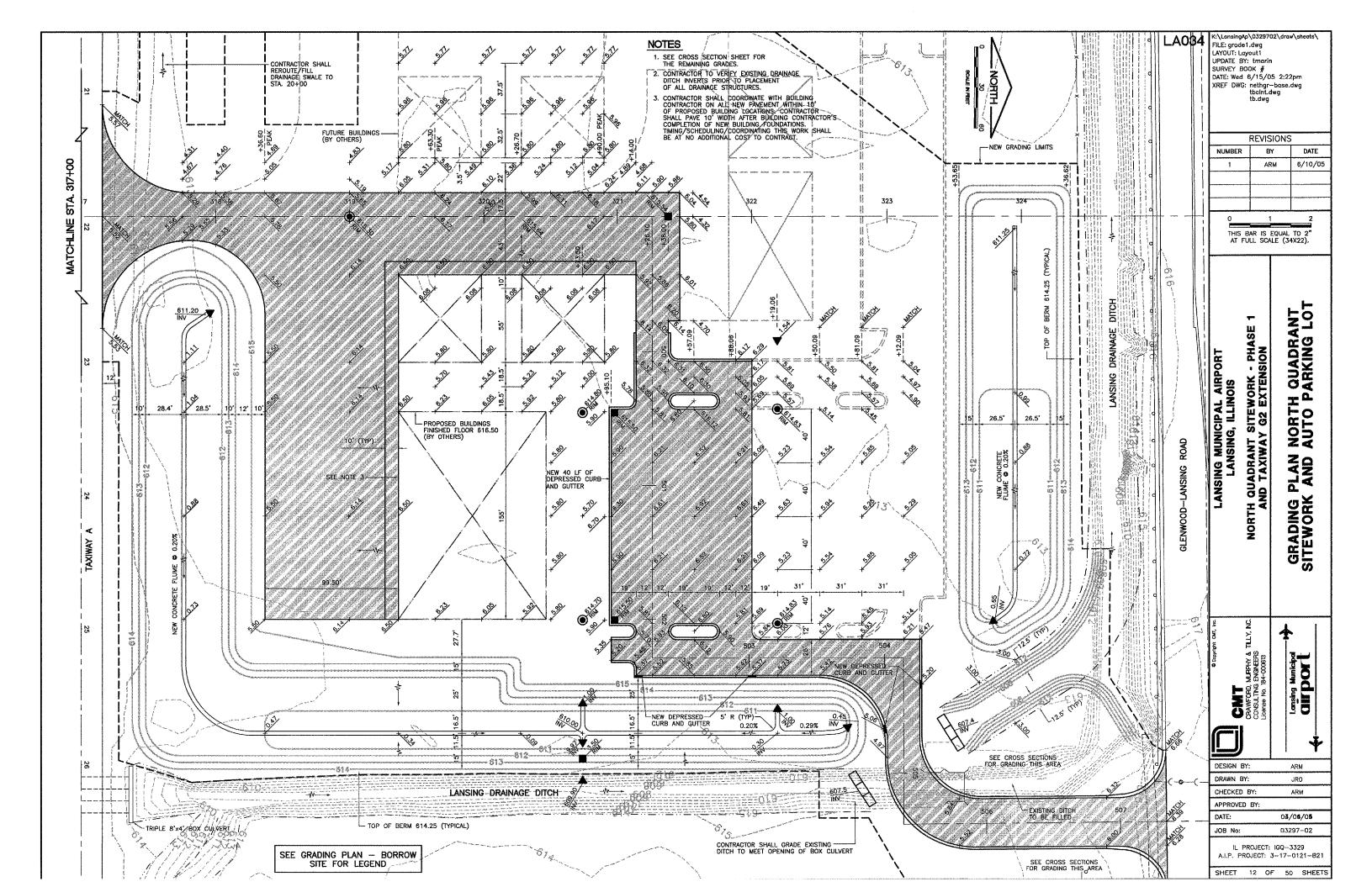
SHEET 8 OF 50 SHEETS

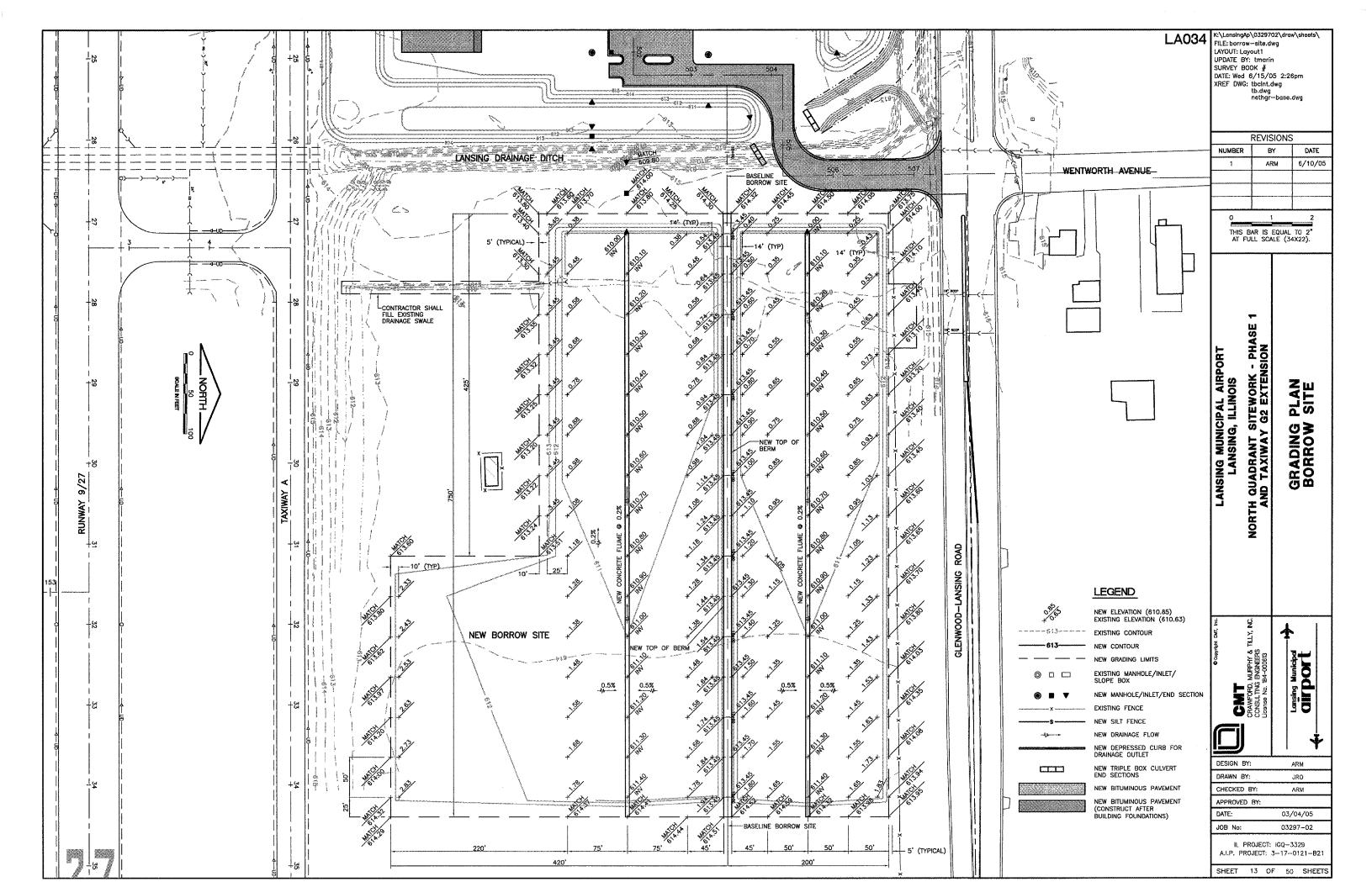
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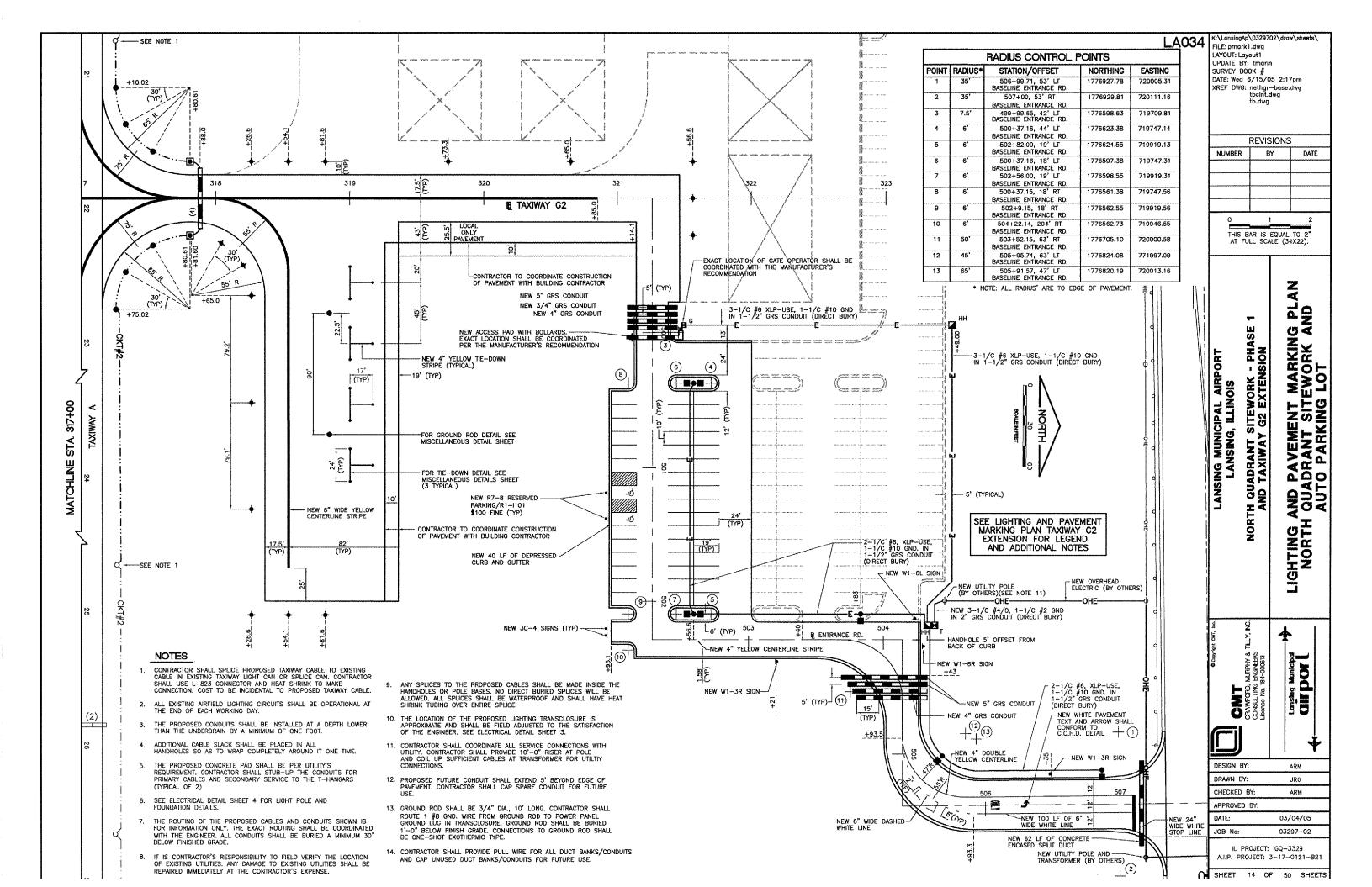


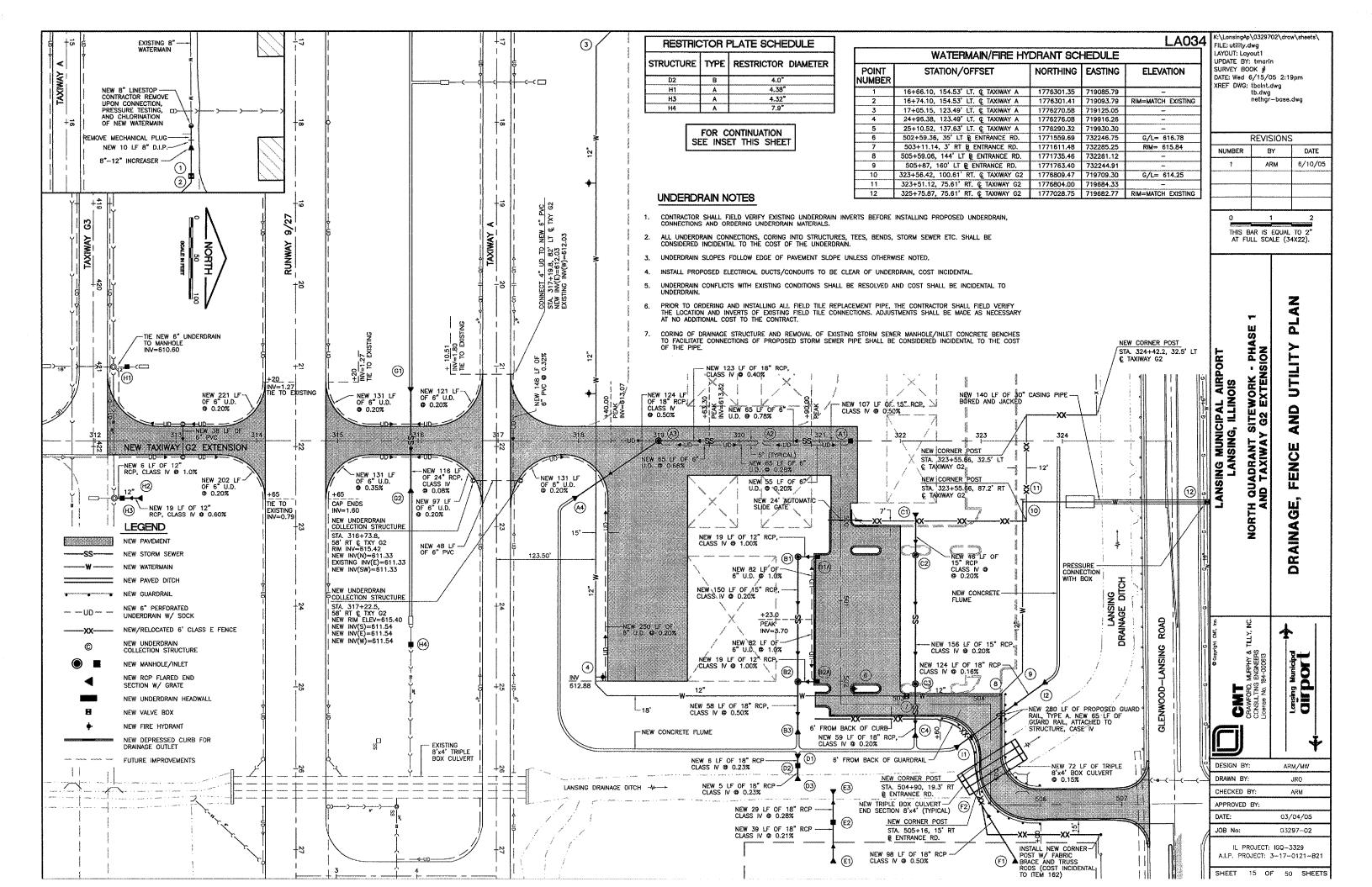


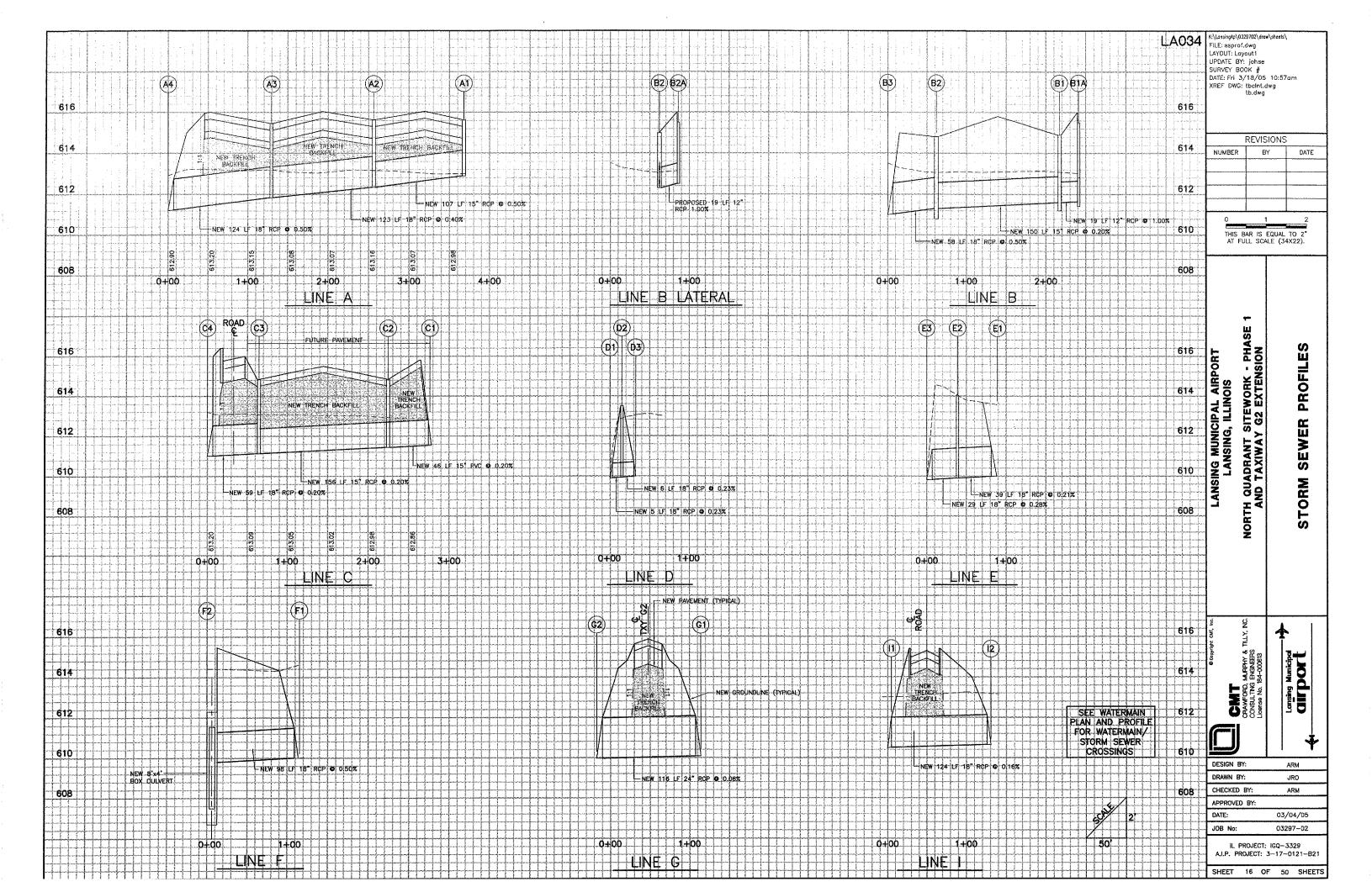


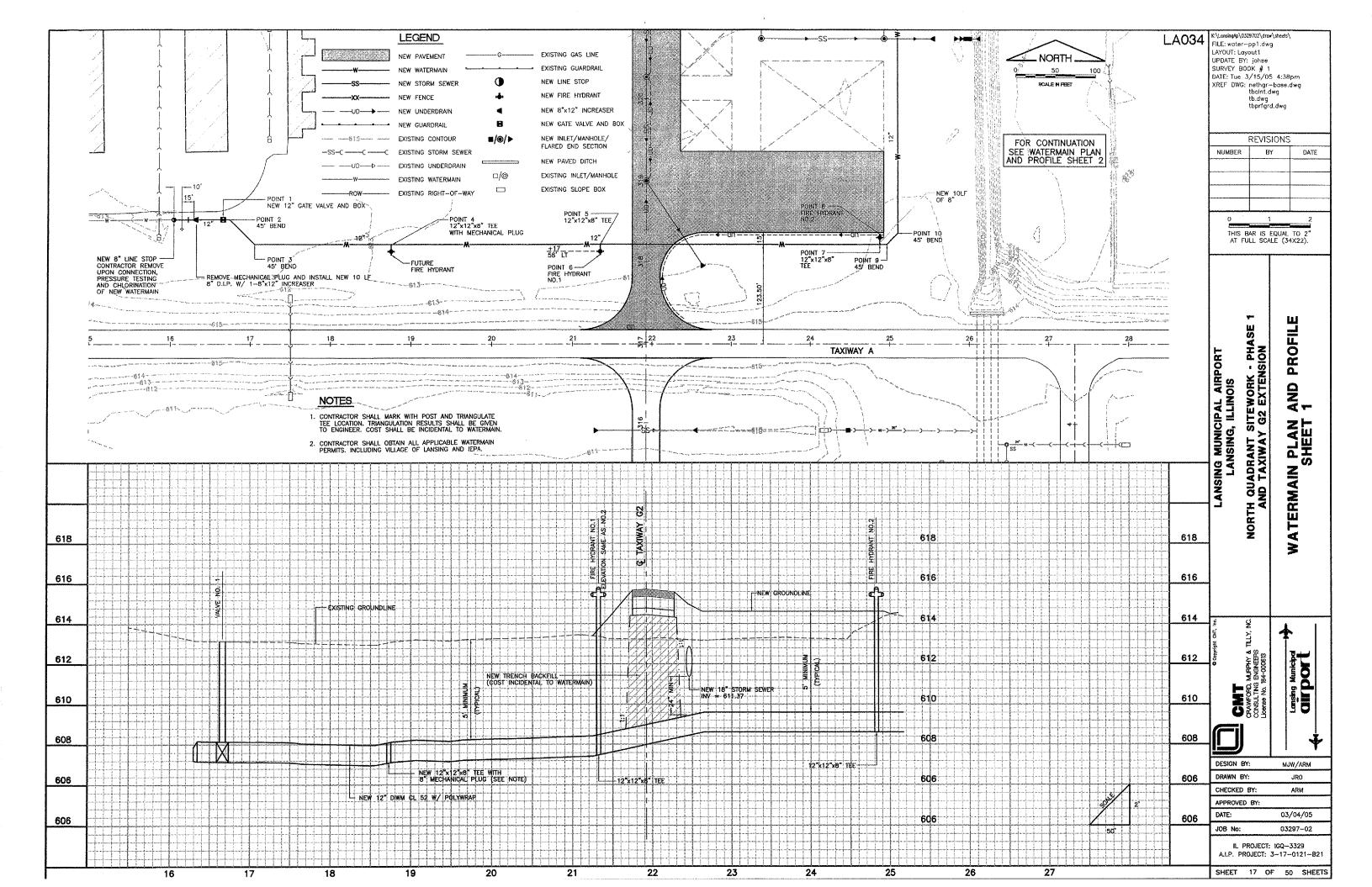


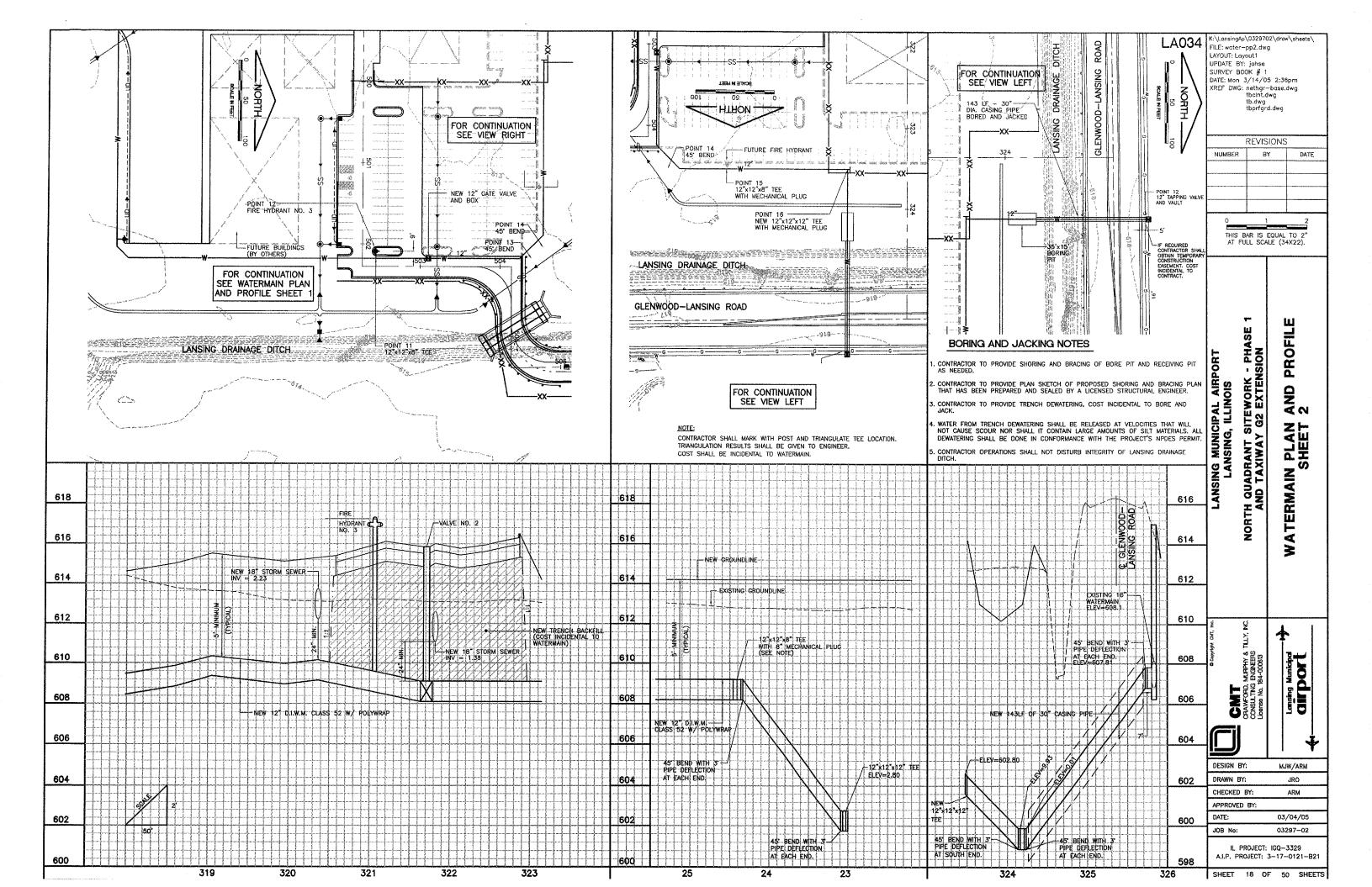


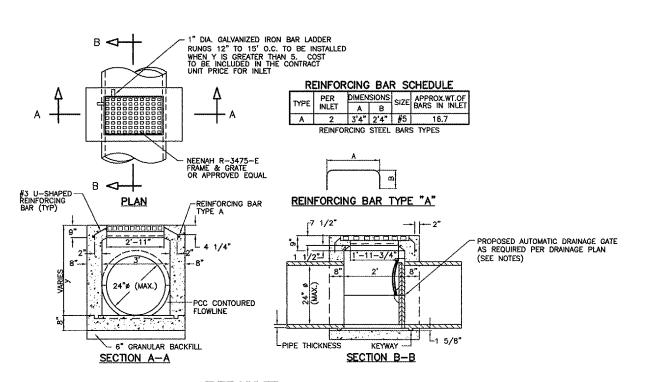








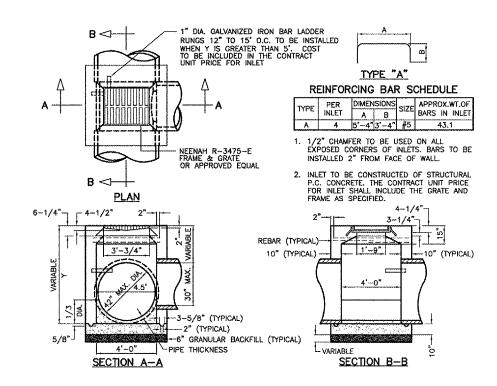




TYPE 1 INLET

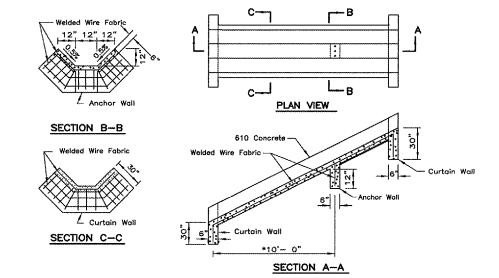
NOTES

- 1. 1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNERS ON INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALL.
- INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE FOR INLET SHALL INCLUDE THE GRATE AND FRAME AS SPECIFIED.



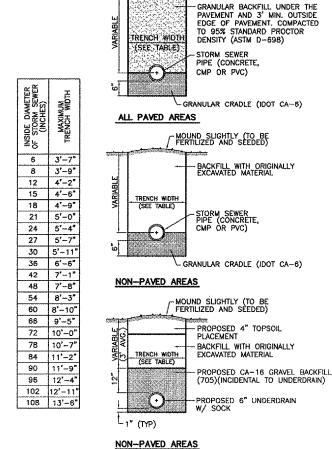
AUTOMATIC DRAINAGE GATE NOTES:

- EPCON SYSTEM C6 EPOXY ANCHORS MANUFACTURED BY ITW, RAMSET, REDHEAD CO. OR EQUAL SHALL BE USED FOR ANCHORING THE BOLTS.
- ANCHOR BOLT SIZE SHALL BE AS SPECIFIED BY DRAINAGE GATE MANUFACTURER. ALL ANCHOR BOLTS, SCREWS AND NUTS SHALL BE GALVANIZED STEEL, ASTM A307 AND ASTM A164 OF AMPLE SECTION TO SAFELY WITHSTAND FORCES CREATED BY OPERATION SHOWN ON MANUFACTURER'S GATE. SCHEDULE.
- USE OF MECHANICAL/EXPANSION TYPE ANCHORS SHALL NOT BE CONSIDERED AS AN ACCEPTABLE ALTERNATE TO THE SPECIFIED CHEMICAL SYSTEMS.
- 4. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM DEPTH OF 8" INTO THE PRECAST PORTION OF THE TYPE 1 INLET AND TYPE 2 INLET WALLS, ANCHORING THE BOLTS INTO THE MORTARED PORTION OF THE INLET BETWEEN THE OUTSIDE OF THE DRAINAGE PIPE AND THE OPENING OF THE DRAINAGE INLET WILL NOT BE ALLOWED.
- ANCHOR BOLTS SHALL BE INSTALLED IN THE PRECAST PORTION A MINIMUM OF 3" FROM THE FACE OF THE DRAINAGE STRUCTURE PIPE OPENING.
- 6. AUTOMATIC DRAINAGE GATES SHALL BE NEENAH R-5050-SF OR EQUAL WITH MINIMUM SIZES AS SHOWN BELOW:
 - R-5050-SF30 FOR 18" DIAMETER PIPE OPENING.



NOT TO SCALE

*The maximum typical spacing between Anchor Walls and Curtain Walls shall be 10'- 0" from center to center.



EXISTING, PROPOSED OR FUTURE PAVEMENT AS

SHOWN ON THE PLANS

TRENCH DETAILS - STORM SEWER

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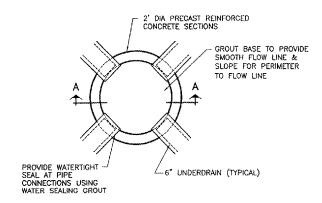
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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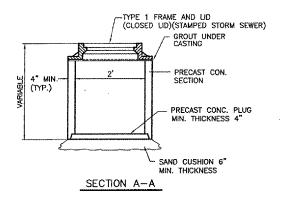
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A.I.P. PROJECT: 3-17-0121-B21
SHEET 19 OF 50 SHEETS

PROPOSED TYPE 2 INLET

NOT TO SCALE



PLAN VIEW



UNDERDRAIN COLLECTION STRUCTURE DETAIL NOT TO SCALE

MWRDGC GENERAL NOTES (APPLIES TO ALL SANITARY SEWER)

- 1. THE MWRDGC SEWER PERMIT SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF WORK (CALL 708-588-4055).
- 2. ELEVATION DATUM IS USGS.
- 3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.
- 4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER.
- 5. ALL SANITARY PIPE (AND STORM IN COMBINED AREAS) SHALL CONFORM TO THE FOLLOWING: DUCTILE IRON PIPE ASTM A-21.5
 PVC ASTM D 3034 SDR26

JOINT SPECIFICATIONS SHALL CONFORM TO THE FOLLOWING DUCTILE IRON PIPE ASTM A-21.11 ASTM D 3212

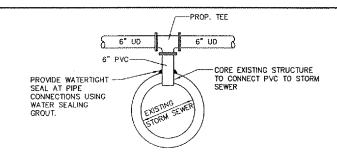
- 6. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS) REQUIRES STONE BEDDING 1/4" TO 1" IN SIZE, WITH A MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES OR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF
- 7. "BAND SEAL" OF SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE. O. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER HAN AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED.

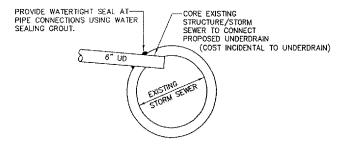
 1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER TAP" MAIN SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.

2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL AND REPLACE WITH A WYE OR TEE BRANCH SECTION. 3. 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.

9. WHEREVER A SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES, FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATER MAINS SHALL. BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18 VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTENCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.

- 10. ALL EXISTING SEPTIC SYSTEMS ARE TO BE ABANDONED. ABANDONED ARE TANKS TO BE FILLED OR REMOVED.
- 11. ALL SANITARY MANHOLES, AND STORM MANHOLES IN COMBINED SEWER AREAS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED

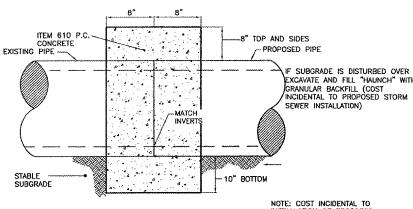




UNDERDRAIN CONNECTION DETAILS

NOT TO SCALE

UNDERDRAIN CONNECTIONS AND FITTINGS, TEES AND ELBOWS USED FOR CONNECTIONS TO PROPOSED STRUCTURES AND STORM SEWERS / EXISTING STRUCTURES AND STORM SEWERS, SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED UNDERDRAIN



INSTALLATION OF PROPOSED

CONCRETE COLLAR - STORM SEWER

SIDE VIEW

BE TACK WELDED TO ANCHORS. CONTRACTOR SHALL PROVIDE AN EPOXY WATERTIGHT SEAL BETWEEN RESTRICTOR PLATE -6" (TYP) AND MANHOLE WALL PROPOSED GALVANIZED RESTRICTOR PLATE ON DOWN STREAM SIDE OF STRUCTURE --- PROPOSED 6" SUMP PROPOSED 7/16" GALVANIZED— CONTRACTOR SHALL CUT RESTRICTOR OPENING AS SHOWN ON PLANS

PRIOR TO GALVANIZATION

CONTRACTOR SHALL PROVIDE AN EPOXY WATERTIGHT SEAL BETWEEN RESTRICTOR PLATE -6" (TYP) AND MANHOLE WALL PROPOSED GALVANIZED RESTRICTOR PLATE ON DOWN STREAM SIDE OF STRUCTURE

DRAINAGE STRUCTURE SCHEDULE

DESCRIPTION

TYPE A-4 MANHOLE WITH TYPE

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

TYPE A-4 MANHOLE WITH TYPE

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

TYPE 1 INLET WITH RESTRICTOR

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

WITH GRATE - 18"

TYPE 1 INLET WITH AUTOMATIC

DRAINAGE GATE ON EAST WALL

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

WITH GRATE - 18"
INTERSECTION WITH BOX CULVERT

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

CONCRETE FLARED END SECTION

WITH GRATE - 12"
TYPE 1 INLET WITH RESTRICTOR

TYPE 2 INLET WITH RESTRICTOR

CONCRETE FLARED END SECTION

LT CONCRETE FLARED END SECTION

WITH GRATE - 15"
TYPE A-4 MANHOLE WITH TYPE 8

TYPE A INLET WITH TYPE 12

TYPE A INLET WITH TYPE

OPEN FRAME AND LID

TYPE A-4 MANHOLE WITH

FRAME AND OPEN LID

WITH GRATE - 18"

FRAME AND LID

FRAME AND LID

WITH GRATE - 18

WITH GRATE - 18"

WITH GRATE - 18

WITH GRATE - 18"

WITH GRATE - 18"

WITH GRATE -- 18"

PLATE ON SOUTH WALL

PLATE ON EAST WALL

WITH GRATE ~ 18'

WITH GRATE - 18"

NOTE: 1, ± DENOTES CONTRACTOR SHALL VERIFY RIMS/INVERTS PRIOR TO ORDERING MATERIALS.

4. TYPE 12 FRAME AND LID STATIONS/OFFSETS ARE REFERENCED TO BACK OF CURB

2. TYPE 8 GRATES SHALL BE PLACED ON 4" ADJUSTING RINGS. 3. TYPE 12 FRAME AND LID RIMS ARE ELEVATIONS AT EDGE OF PAVEMENT.

WITH GRATE - 18

BASELINE ENTRANCE RD. FRAME AND OPEN LID
STA. 502+00.64, 52.58' RT TYPE A-5 MANHOLE WITH TYPE

RIM

615.64

614.83

613.50

N.A

614.51

614.20

N.A

INVERT

6" U.D. SOUTH = 613.21 15" RCP NORTH = 612.33

18" RCP SOUTH = 612.33

U.D. SOUTH = 612.89

" U.D. NORTH = 612.46

5" RCP EAST = 611.62

12" RCP NORTH = 511.32

8'' RCP EAST = 611.32 5" RCP WEST = 611.32

12" RCP SOUTH = 611.81

12" RCP SOUTH = 611.51

15" RCP EAST = 611.44

15" RCP WEST = 611.44

18" RCP FAST = 611.13

15" RCP WEST = 611.13

18" RCP EAST = 609.93

18" RCP WEST = 609.94

18" RCP WEST = 609.90

18" RCP EAST = 609.51

610.07 ± MATCH FLUME INVERT

609.97 ± MATCH FLUME INVER

12" RCP NORTH = 611.36±

2" RCP SOUTH = 611.36±

12" RCP NORTH = 610.77+

12" RCP SOUTH = 610.75±

0" RCP WEST = 609.51±

18" RCP SOUTH = 610,45

18" RCP NORTH = 610.65

30" RCP EAST = 609,51±

609.97

609.90

510.00

510.00

10.92

6" U.D. NORTH = 612.89

POINT NO.

B3

RIA

B2A

C1

C2

(3

C4

Ď1

D2

0.3

E2

G1

G2

H2

H4

STATION / OFFSET

ENTERLINE OF TXY G2

ENTERLINE OF TXY G2

CENTERLINE OF TXY G2

STA. 317+92.5, 72.6' RT.

STA. 500+45.64, 52.58' RT

ASELINE ENTRANCE RD.

STA. 504+50, 238.57' RT

BASELINE ENTRANCE RD. STA.500+45.64, 32.58' RT

BASELINE ENTRANCE RD

BASELINE ENTRANCE RD. STA. 499+91.38, 93' LT

BASEUNE ENTRANCE RD. STA. 500+41.57, 93' LT

BASELINE ENTRANCE RD. STA. 503+21.16, 40' RT

BASELINE ENTRANCE RD. STA. 504+89, 238.58° RT

TA. 505+01.96, 238.58'

BASELINE ENTRANCE RD. STA, 10+94,75, 125' RI

BASELINE BORROW SITE STA. 10+50, 125' RT

BASELINE BORROW SITE STA, 10+94.75, 99.9' LT

BASELINE BORROW SITE

BASELINE ENTRANCE RD

STA 315490 0 65' IT

CENTERLINE OF TXY G2

STA. 315+90.9, 65' RT.

CENTERLINE OF TXY G2

CENTERLINE OF TXY G2

STA. 312+58, 71.5' RT.

CENTERLINE OF TXY G2

STA, 312+33.2, 71.5' RT

STA, 315+90.9, 254.7' RT.

ENTERLINE OF TXY G2

BASELINE ENTRANCE RD. STA. 506+02.13, 147.61'

BASELINE ENTRANCE RD.

TA. 504+67, 43' RT

BASELINE ENTRANCE RD. STA. 503+21.16, 22.42' LT

BASELINE ENTRANCE

STA, 502+00.64, 32.58' RT

CENTERLINE OF TXY G2

STA. 320+26.7

A3 STA, 319+00,0

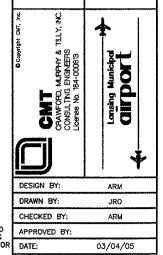
---PROPOSED 6" SUMP INV=609.9 2" PROPOSED 1/4"x35"x35" —
GALVANIZED RESTRICTOR PLATE -4" PROJECTING STEEL PIPE WELDED TO RESTRICTOR PLATE

END VIEW

RESTRICTOR PLATE DETAIL-TYPE B

LA034 PATH: K:\0329702\draw\sheets\ FILE: drndtl1.dwg UPDATE BY: johse SURVEY BOOK # XREF DWG: XREF DWG: DATE: Sun 3/28/04 9:02am 18" RCP SOUTHEAST = 611.84 REVISIONS NUMBER BY DATE 6" U.D. SOUTHEAST=612.88 THIS BAR IS EQUAL TO 2 6" U.D. SOUTHWEST#612.88 611.54 AT FULL SCALE (34X22).

H S **Z** N YORK - XTENSI ING MUNICIPAL AIRP LANSING, ILLINOIS Sim AIL ITEW(ш Ø OM ADRANT TAXIWA) INAGE RTH QU **4**0 a G



II PROJECT: IGO~3329 A.L.P. PROJECT: 3-17-0121-821

JOB No

SHEET 20 OF 50 SHEETS

03297--02

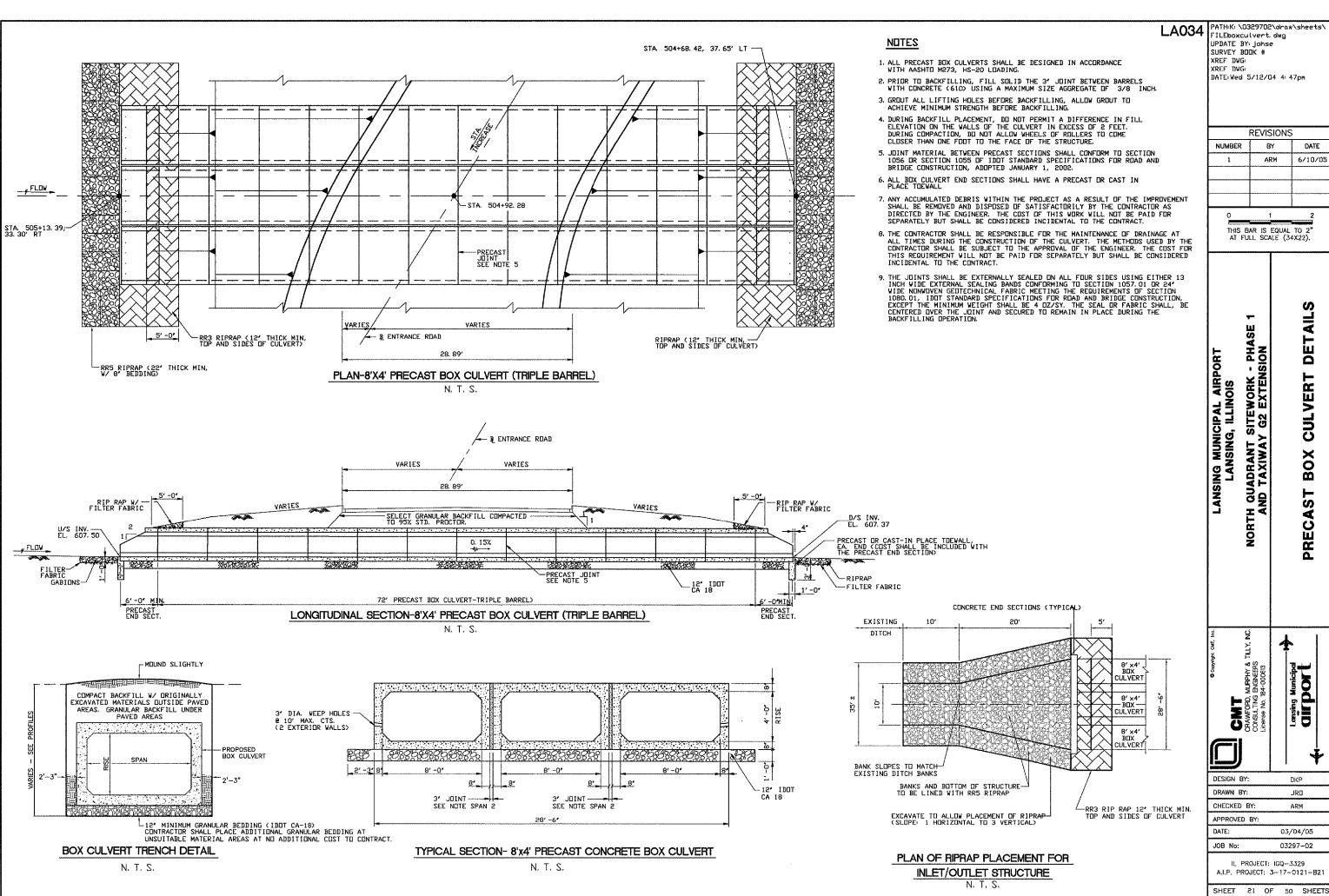
SIDE VIEW

STAINLESS STEEL ANCHORS SHALL BE 1" DIA. AND OF SUFFICIENT LENGTH TO ---PROVIDE 6" MINIMUM EMBEDMENT IN STRUCTURE SIDEWALL ANCHORS SHALL BE
CEMENTED INTO STRUCTURE WITH HIGH STRENGTH EPOXY. PLATE RESTRICTOR
SHALL BE TACK WELDED TO ANCHORS.

CONTRACTOR SHALL WELD 4" DIAMETER PROJECTING STEEL PIPE TO RESTRICTOR PLATE

END VIEW

RESTRICTOR PLATE DETAIL-TYPE A



PATHIK: \0329702\draw\sheets\ UPDATE BY: Johse SURVEY BOOK # DATE: Wed 5/12/04 4: 47pm

> **REVISIONS** BY DATE ARM 6/10/05

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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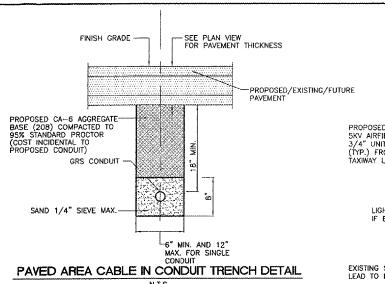
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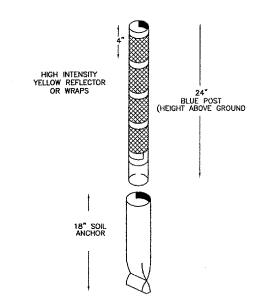
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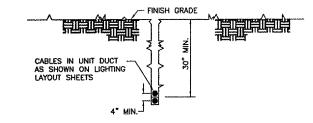


NOTE: CONDUIT SHALL BE INSTALLED AT AN ELEVATION THAT WILL NOT CONFLICT WITH THE OTHER UTILITIES SUCH AS SANITARY SEWER, STORM SEWER, WATERMAIN, UNDERDRAIN, AND ETC.



TAXIWAY RETROFLECTIVE MARKER DETAIL

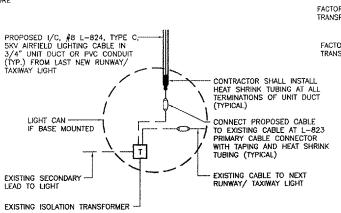
NOTE: RETROFLECTIVE MARKER SHALL BE SAFE-HIT OR APPROVED EQUAL.



CABLE IN UNIT DUCT - PLOWED

NOT TO SCALE

NOTE: CONTRACTOR SHALL HAVE THE OPTION TO TRENCH OR PLOW UNIT DUCT.
NO ADDITIONAL PAYMENT SHALL BE MADE FOR TRENCHING.



RUNWAY/TAXIWAY LIGHTING CIRCUIT CONNECTION DETAIL

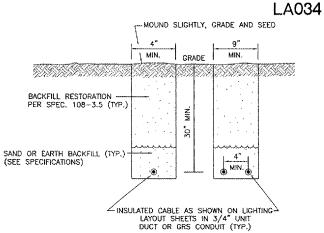
NOT TO SCALE

HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE, PER SPECS RECEPTACLE 2" AFTER SHRINKING END =[] FACTORY MOLDED L-823 FIELD INSTALLED COMPOUND FILLER TRANSFORMER LEADS L-823 PLUG END HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE, PER SPECS. 2" AFTER SHRINKING (TYP.) FACTORY MOLDED L-823 TRANSFORMER LEADS (SEE SPECIFICATIONS) ADDITIONAL ADHESIVE PLUG END L-823 RECEPTACLE END TYPE C AND D - CABLE SPLICE

FOR SPLICES AT
RUNWAY/TAXIWAY LIGHTS AND SIGNS
NOT TO SCALE

CABLE SPLICE NOTES

- INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
- 2. WRAP WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE—HALF LAPPED, EXTENDING AT LEAST 1—1/2 INCHES ON EACH SIDE OF JOINT.
- THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
- 4. THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.

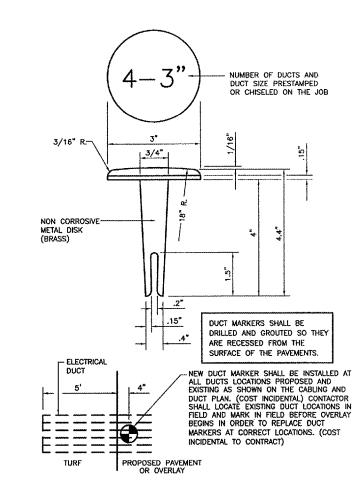


TURF AREA CABLE TRENCH DETAIL

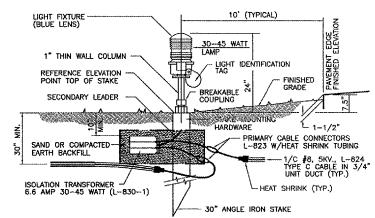
NOT TO SCALE

NOTES

- 1. TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 4" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
- 2. DEPTH OF TRENCHES SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
- 4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL.



DUCT MARKER DETAIL



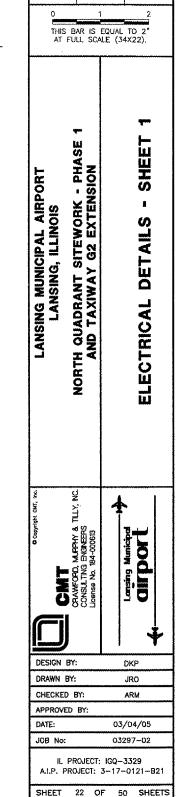
PROPOSED/ADJUSTED/RELOCATED STAKE MOUNTED

MEDIUM INTENSITY TAXIWAY LIGHT

NOT TO SCALE

GENERAL NOTES:

- 1. THE VEHICULAR BARRIERS/BOLLARDS WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE UTILITY PAD.
- 2. LOCATION OF UNDERGROUND ELECTRICAL ITEMS SHALL BE COORDINATED WITH VEHICULAR BARRIERS/BOLLARDS TO AVOID ANY CONFLICTS
- 3. NUMBER OF BARRIERS/BOLLARDS TO BE INSTALLED SHALL BE AS REQUIRED BY THE UTILITY COMPANY



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DATE: Mon 3/29/04 8:25am

REVISIONS

BY

DATE

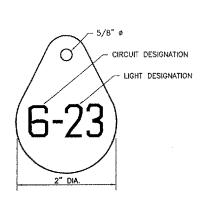
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NUMBER

UPDATE BY: jobse

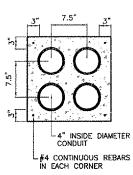
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LIGHT IDENTIFICATION DETAIL

NOTES:

- 1. INSTALL A NONCORROSIVE DISC OF 2"
 MINIMUM DIAMETER WITH THE NUMBER
 PERMANENTLY STAMPED, CUT OUT, OR
 ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH A SET SCREW.
- 2. NUMERALS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. ALL EXISTING AND PROPOSED TAXIWAY AND RUNWAY LIGHTS SHALL BE TAGGED AS DIRECTED BY THE RESIDENT ENGINEER. ALL LIGHTS ON EXISTING CIRCUITS THAT HAVE LIGHTII IMPROVEMENTS (PROPOSED OR RELOCATED
- 3. COST OF TAGGING LIGHTS SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



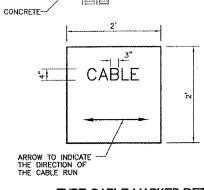
4-WAY

CONCRETE ENCASED DUCT BANKS

NOT TO SCALE

NOTES:

- 1. DIMENSIONS ARE MINIMUM.
- 2. CONCRETE SHALL CONFORM TO ITEM 610.
- 3. ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
- 4. TOP OF CONCRETE ENCASEMENT IN TURF AREAS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE.
- 5. 4" SPLIT DUCT SHALL BE CONCRETE ENCASED WITH 3" MINIMUM CONCRETE SURROUNDING 4" CONDUIT. COST INCIDENTAL TO SPLIT DUCT.
- 6. PROVIDE PULL STRING AND CAPS FOR UNUSED



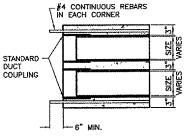
TURF CABLE MARKER DETAIL

- INSTALL FLUSH

WITH GROUND

NOTES

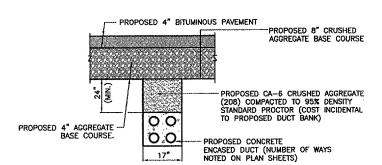
- 1.) CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE CABLE RUN.
- ITEM 610 CONCRETE SHALL BE USED.
- 3.) ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL
- THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE
- 5.) 0.049 CU. YD. CONCRETE PER MARKER.
- CONTACTOR SHALL LOCATE EXISTING CABLE MARKERS IN THE FIELD BEFORE SHOULDER ADJUSTMENT BEGINS IN ORDER TO REPLACE CABLE MARKERS AT CORRECT LOCATIONS (COST INCIDENTAL TO CONTRACT).



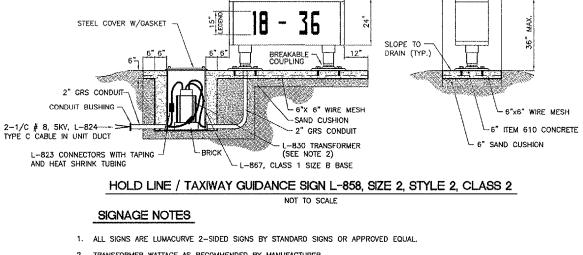
END DETAIL

NO SCALE

CONCRETE ENCASED DUCT



CONCRETE ENCASED DUCT BACKFILL



LENGTH AS REQ'D.

BY MFGR

VAR.

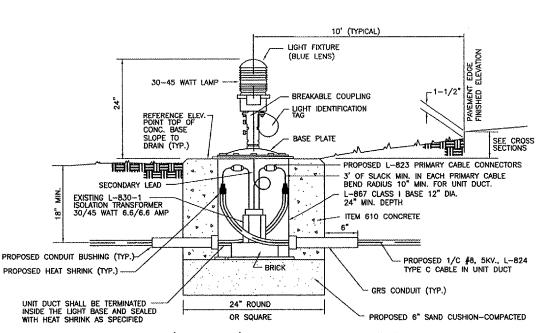
---12"

- 2. TRANSFORMER WATTAGE AS RECOMMENDED BY MANUFACTURER.
- 3. LIGHTED SIGNS SHALL BE BASE MOUNTED ONLY

20' TO EDGE OF

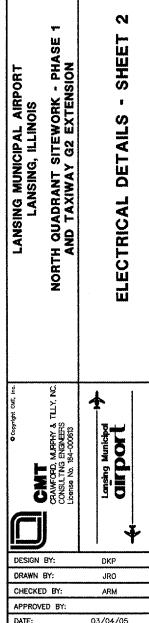
PAVEMENT (TYP.)

- 4. UNIT DUCT SHALL BE TERMINATED IN THE CAN AND SEALED TO THE CABLE WITH HEAT SHRINK AS SPECIFIED.
- 5. THE NUMBER OF MODULES PER SIGN SHALL BE AS RECOMMENDED BY THE MANUFACTURER
- CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWING INCLUDING SIGN, COLOR, SIZE AND PROPOSED LEGEND, IN ENOUGH DETAIL AND DETERMINE PROPOSED SPACING AND OTHER INFORMATION REQUIRED BY SPECIAL PROVISIONS. CONTRACTOR TO VERIFY PROPOSED SIGN LOCATIONS AND ORIENTATIONS WITH RESIDENT ENGINEER PRIOR TO
- 7. WHEN EXISTING SIGNS ARE PROPOSED TO BE RETROFITTED WITH NEW SIGN PANELS, THE SIGN PANELS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF ADVISORY CIRCULAR 15015340-18 (LATEST EDITION). THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED SIGN PANELS ARE COMPATIBLE WITH THE EXISTING SIGN ASSEMBLIES WHICH ARE LUMACURVE BY STANDARD SIGNS.



PROPOSED/ADJUSTED/RELOCATED BASE MOUNTED MEDIUM INTENSITY TAXIWAY LIGHT NOT TO SCALE

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FILE: edtl2.dwg UPDATE BY: johse SURVEY BOOK # XREF DWG: XREF DWG: DATE: Mon 3/29/04 9:06am REVISIONS NUMBER BY DATE THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22).



IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21 SHEET 23 OF 50 SHEETS

03297-02

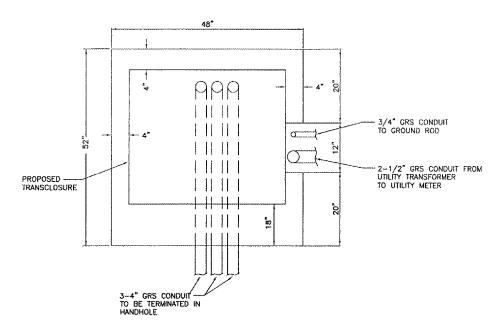
GERERAL NOTES:

- THE CONCRETE BASE FOR BASE MTD. LIGHTS SHALL BE TROWEL FINISHED WITH A 45' BEVELED EDGE. SLOPE TO DRAIN (610).
- TRANSFORMER HOLDER SHALL BE ANY COMMERCIALLY AVAILABLE BRICK.
- BREAKING GROOVE COUPLINGS SHALL NOT BE OVER 1" ABOVE GROUND LINE.
- ISOLATION TRANSFORMERS COME WITH A FACTORY INSTALLED PLUG (TYPE 1, CLASS A, STYLE 2) AND RECEPTACLE (TYPE 1, CLASS A, STYLE 9). A TYPE 1, CLASS B, STYLE 3 PLUG AND TYPE 1, CLASS B, STYLE 10 RECEPTACLE SHALL BE INSTALLED ON THE 1/C, No. 8, 5000 V., L-824 TYPE C CABLES FOR CONNECTION TO EACH TRANSFORMER.
- 5. TO FURTHER REDUCE THE POSSIBILITY OF WATER/MOISTURE ENTRANCE INTO THE CONNECTOR BETWEEN THE CABLE AND THE FIELD ATTACHED CONNECTOR, IT IS REQUIRED THAT A HEAT SHRINKABLE TUBING WITH INTERNAL ADHESIVE BE
- 6. ALL SIGNS, LIGHTS, CABLES AND TRANSFORMERS TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE AIRPORT. AT THE DISCRETION OF THE AIRPORT MANAGER, THE CONTRACTOR MAY BE REQUIRED TO DISPOSE OF THESE MATERIALS OFFSITE AT NO ADDITIONAL COST.
- TAXIWAY LIGHTS SHALL HAVE A BLUE LENS, RUNWAY LIGHTS SHALL HAVE A CLEAR OR 180' AMBER/CLEAR LENS AS DESIGNATED ON PLANS.
- DUCT MARKERS SHALL BE INSTALLED AT EVERY NEW DUCT AND AT EVERY EXISTING DUCT USED FOR THIS PROJECT.
- CONTRACTOR SHALL HAVE THE OPTION TO TRENCH OR PLOW UNIT DUCT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR TRENCHING.

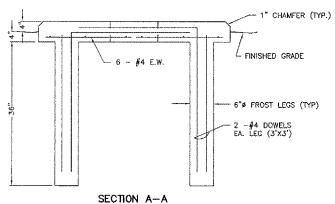
	LIGHTING PANEL SCHEDULE							
CIRCUIT NO.	POLE NO.	CIRCUIT BREAKER SIZE	USAGE					
A-1 A-2 A-3 A-4 A-5	1,3 2,4 5 6 7	200A 20A 20A 20A 20A 15A 15A	MAIN CIRCUIT BREAKER ELECTRIC GATE PARKING LOT LIGHTING RECEPTACLE LIGHT INSIDE CABINET TIMECLOCK					

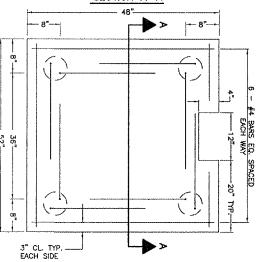
NOTES

- 1. UTILITY METER. THE NEW ELECTRIC SERVICE SHALL BE 200 AMP, 120/240 VOLT, 1 PHASE, 3—WIRE 60 HZ SERVICE. UTILITY METER SHALL BE INSTALLED ON THE SIDE OF TRANSCLOSURE. CONTRACTOR SHALL, SUPPLY THE BASE FOR METER AND COORDINATE SERVICE CONNECTION WITH UTILITY COMPANY.
- 30 CIRCUIT LIGHTING PANEL WITH 200 AMP 2-POLE MAIN CIRCUIT BREAKER.
- 3. 8 CIRCUIT PROGRAMMABLE TIMECLOCK, MODEL NO. ET70815CR AS MANUFACTURED BY INTERMATIC OR EQUAL.
- 42"x36"x8" JUNCTION BOX HOUSING FOR TIMECLOCK AND CONTACTORS.
- GROUND ROD SHALL BE 3/4" DIA. x 10'-0" COPPER CLAD. ALL CONNECTIONS TO GROUND ROD SHALL BE ONE-SHOT EXOTHERMIC TYPE.
- 6. 30A, 2-POLE LIGHTING CONTACTOR. (TYP. OF 3)



PLAN VIEW

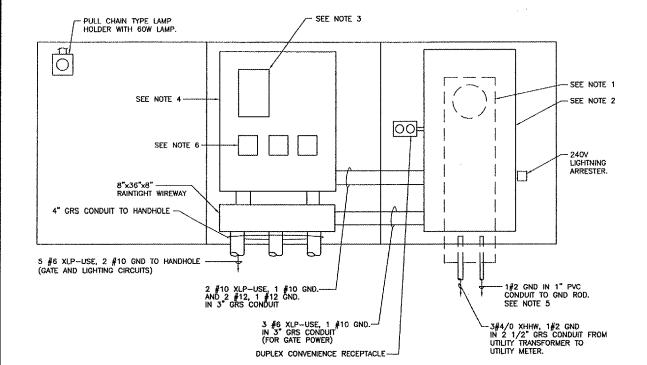




PLAN VIEW

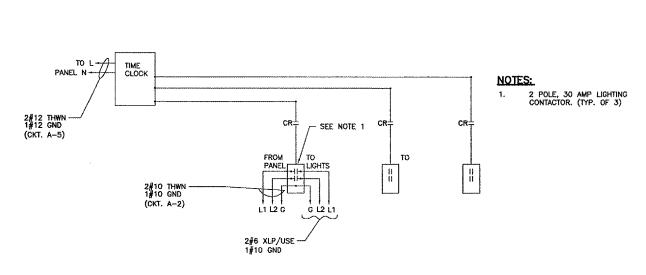
CONCRETE PAD FOR ELECTRICAL TRANSCLOSURE

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 14 DAYS OF 3500 PSI REINFORCING STEEL SHALL BE A-615 GRADE 60 ALL EXPOSED EDGES AND EQUIPMENT PADS SHALL BE CHAMFERED 1"
- 4) CONTRACTOR SHALL INSTALL CONDUTS THROUGH PAD AS REQUIRED.
 CONDUITS NOT SHOWN FOR CLARITY.
 5) DIMENSIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



ELECTRICAL TRANSCLOSURE DETAIL

NOT TO SCALE



LIGHTING CONTROLLER WIRING SCHEMATIC

CANTOND, I DKP DRAWN BY: JRO CHECKED BY: ARM APPROVED BY: 03/04/05 DATE: JOB No: 03297~02 IL PROJECT: IGQ~3329 A.I.P. PROJECT: 3-17-0121-B21 SHEET 24 OF 50 SHEETS

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FILE: edtl3.dwg UPDATE BY: charper SURVEY BOOK #

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NUMBER

LANSING MUNICIPAL AIRPORT LANSING, ILLINOIS

QUADRANT SITEWORK -

DATE: Tue 2/22/05 10:08am

REVISIONS

BY

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

DATE

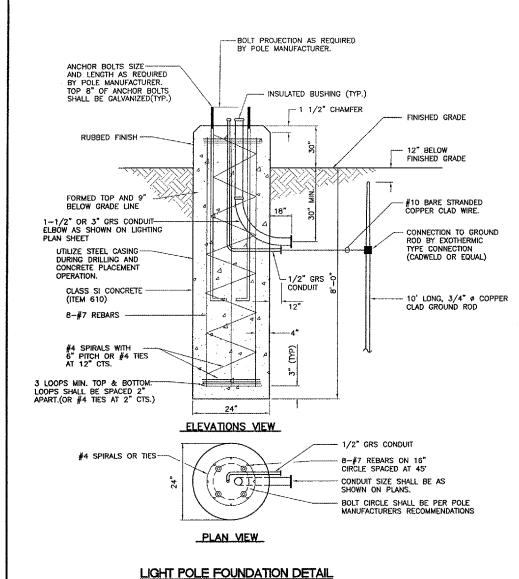
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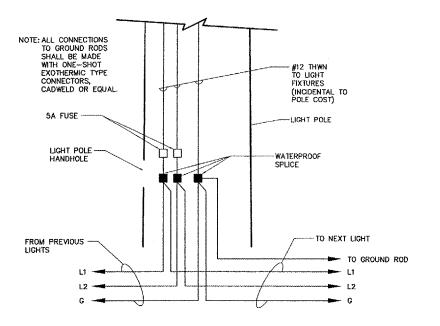
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NOT TO SCALE

*CONTRACTOR TO VERIFY FINISHED GRADE WITH ENGINEER



LIGHT POLE HANDHOLE WIRING DIAGRAM NOT TO SCALE

NEW LIGHT FIXTURE
MODEL #SL-21-VS-HPS-250
AS MANUFACTURED BY QUALITY
LIGHTING OR EQUAL.

NEW 27'-8" BASE MOUNTED CONCRETE
OCTAGONAL LIGHT POLE, MODEL NO. MBO-9
BY CENTERCON. THE POLE FINISH SHALL BE
NATURAL POLISHED WITH WHITE ACCREGATE TO MATCH
WITH EXISTING POLES.

LIGHT POLE HANDHOLE
(SEE WIRING DETAIL THIS SHEET)

NEW CONCRETE
FOUNDATION (SEE DETAIL THIS SHEET)

PROPOSED LIGHT POLE DETAIL

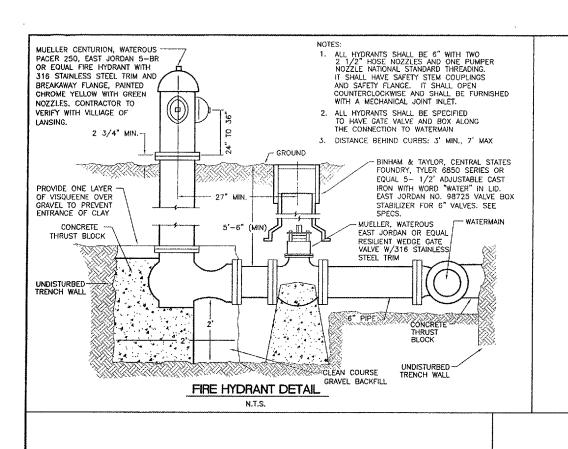
NOT TO SCALE

REVISIONS BY THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). LANSING MUNICIPAL AIRPORT LANSING, ILLINOIS NORTH QUADRANT SITEWORK - PHASE AND TAXIWAY G2 EXTENSION 王S S AIL $\overline{\Box}$ ECTRIC CRAWFORD, P DESIGN BY: DKP DRAWN BY: JRO CHECKED BY: ARM APPROVED BY: DATE: 03/04/05 JOB No: 03297-02 IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21

SHEET 25 OF 50 SHEETS

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FILE: edtl4.dwg
UPDATE BY: charper
SURVEY BOOK #
XREF DWG:
XREF DWG:

DATE: Tue 2/22/05 10:12am



-NEENAH R-1772 TYPE "B" LID OR EQUAL WITH "WATER" AND "VILLAGE OF LANSING" TO BE CAST IN LID

-FINISHED GRADE

TE ALL MANUTE AND A STATE OF THE STATE OF TH

-PREFORMED NON-HARDENING BUTYL MASTIC

-RETAINER GLAND

PRECAST INTEGRAL

SEE NOTE 5

--- CA--11

--- 6"(150MM)

PRECAST

APPLY A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BUTYL MASTIC MATERIAL

102B TO EACH JOINT.

FINISHED GRADE ACTUAL TRENCH BACKFILL WITH FXCAVATED MATERIAL EXCEPT WHERE GRANULAR MATERIAL IS REQUIRED (CA-6) ANGLE OF REPOSE AS CALCULATED BY OSHA FOR SLOPING EXCAVATIONS IN VARIOUS TYPES OF SOIL (AVG. SOIL 1:1 SLOPE). NOTE THAT PORTABLE TRENCH BOXES OR SLIDING TRENCH SHIELDS MAY BE USED IN LIEU OF SLOPING. PROVIDE UNIFORM PIPE SUPPORT: USE CROSS TRENCHES EXCAVATED 2"(50MM) WIDER THAN BELL. OR, SEAT PIPE IN UNIFORM GRANULAR BEDDING MIN 4"(200MM) CA-11 BEDDING WHEN CONDITIONS WARRANT - ROCKY SOIL - TO PROVIDE PIPE SUPPORT IF ENCOUNTERED, REMOVE UNSUITABLE MATERIAL AND REPLACE WITH GRANULAR MATERIAL AS DIRECTED BY THE CITY ENGINEER. TRENCH WIDTH SHALL BE THE MINIMUM REQUIRED IN ORDER TO COMPLY WITH OSHA SAFETY STANDARDS. WATERMAIN EMBEDMENT DETAIL N.T.S. IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 701.-3.7 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION

12" 12" MIN. MIN. NOTE: ONE LENGTH OF POLYETHYLENE TUBE FOR EACH LENGTH OF PIPE, OVERLAPPED AT JOINT,

OF AIRPORTS.



TAKE UP SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE



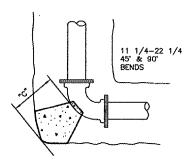
FOLD EXCESS POLY-ETHYLENE BACK OVER THE TOP OF THE PIPE

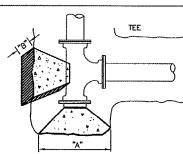


SEVERAL LOCATIONS ALONG THE PIPE BARREL (APPROX

POLYETHYLENE ENCASEMENT

NOTE: REPAIR ALL SMALL RIPS, TEARS OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE.



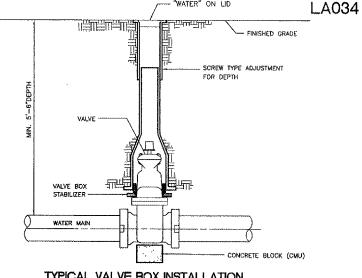


THRUST BLOCK DETAIL

NOTES:

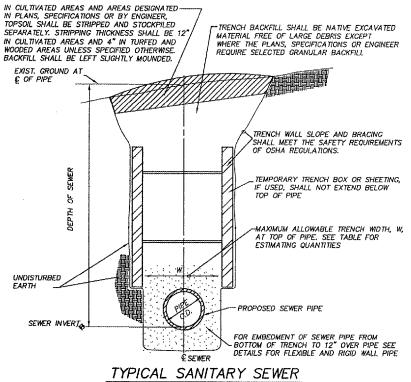
- 1. ALL BENDS, TEES, PLUGS, FITTINGS OR OTHER SIGNIFICANT CHANGES SHALL BE BRACED WITH POURED CONCRETE THRUST BLOCKS AS SHOWN ON THIS DETAIL.
- 2. DIMENSIONS A, B, C APPLY TO ALL BEND CONDITIONS SHOWN.
- 3. ALL B & C DIMENSIONS TO BE AS REQUIRED TO REACH UNDISTURBED EARTH BUT NOT LESS THAN LISTED ON THRUST BLOCK TABLE.
- 4. ALL POURED CONCRETE SHALL, BE 3500 P.S.I.
- INSTALL PLUGS AT ALL RUNS OR BRANCHES DISCONTINUED FOR FUTURE SERVICE.
- 6. WHEN POURING AGAINST PLUGS AND BLIND FLANGES, SET A PIECE OF 3 MIL PLASTIC AGAINST FITTINGS TO KEEP CONCRETE OFF BOLTS.

	SIZE	9	90° BEND		4	45° BEND		22-1/2' BEND			11-	1/4° BI	END	TEE OR PLUG		
L	2175	l A	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
	6"	2'-3"	1'-2"	8*	1'3"	1'-2"	8*	0'-8"	1'-2"	8"	0'~6"	1'~2"	7*	1'-8"	1'2"	8"
	8"	3'-7"	1'4"	9"	2'-3"	1'-4"	9"	1'-4"	1'4"	9"	0'-7"	1'-4"	8"	3'-2"	1'~4"	9*
	10"	5'~0"	1'6"	10"	2'-8"	1'6"	10"	1'-5"	1'-6"	10"	0'-8"	1'~6"	8"	3'-6"	1'-6"	10"
	12"	5'-10"	1'-10'	1'-0"	3'-2"	1'-10"	11"	1'-10"	1'-8"	11"	0'-8"	1'8"	8*	4'2"	1'-0"	1'-10"



"WATER" ON LID

TYPICAL VALVE BOX INSTALLATION



QUANTITIES PER LINEAL FOOT OF CONDUIT FINAL BACKFILL Y. FOOT PER FOO 0.13 0.04 0.03 0.62 Q.03 Q.17 Q.13 Q.62 Q.05 Q.19 Q.14 Q.64 Q.06 Q.20 Q.15 Q.66 Q.07 Q.22 Q.15 Q.69 Q.08 Q.24 Q.16 Q.71 Q.09 Q.25 Q.17 Q.72 Q.10 Q.26 Q.17 Q.72 Q.10 Q.26 Q.17 Q.72 Q.11 Q.29 Q.18 Q.75 Q.12 Q.31 Q.18 Q.77 Q.13 Q.32 Q.19 Q.78 Q.15 Q.35 Q.20 Q.81 0.05 0.05 0.05 0.05 0.05 0.06 3.97 4.17 0.05 4.36 0.05 4.46 0.06 4.56 0.06 4.75 0.06 4.94 0.06 5.04 0.06 5.33 0.07 0.15 0.35 0.20 0.61 5.63 0.07 0.17 0.38 0.21 0.85 5.72 0.07 0.18 0.39 0.21 0.85 5.92 0.07 0.20 0.41 0.22 0.88 6.21 0.08 0.22 0.45 0.23 0.91 6.50 0.08 0.24 0.48 0.24 0.94

AND WATERMAIN INSTALLATION

N.T.S.

BASED ON STANDARD DRAWING NO. 2 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

TABLE OF QUANTITIES FOR ESTIMATING PURPOSES

DESIGN BY ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY: DATE: 03/04/05 JOB No: 03297-02 IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21

SHEET 26 OF 50 SHEETS

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TAPPING VALVE AND VAULT

1) NO MORE THAN 12"(300MM) OF ADJUSTING RINGS MAY BE USED: HOWEVER NO MORE THAN ONE 2"(50MM) ADJUSTING RING OR TWO RINGS IN TOTAL MAY BE USED.

2) VALVE SHALL ALIGN WITH THE CENTER OF VAULT OPENINGS.

3) CONES SHALL BE ECCENTRIC.

4) WHEN ADJUSTMENTS ARE NECESSARY, THEY WILL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PREFORMED NON-HARDENING MASTIC (SS-102B OR APPROVED EQUAL) TO A MAXIMUM HEIGHT OF 12"(300MM).

(ONE 2"(50MM) RING MAX.)

5) TYLER OR MUELLER CLASS 350 MECHANICAL JOINT WITH MEGALUGS OR EQUAL.
6) TAPPING SLEEVES SHALL BE HEAVY-DUTY STAINLESS STEEL BY MUELLER OR EQUAL.

PRECAST ADJ. RING

TAPPING SLEEVE SEE NOTE 6

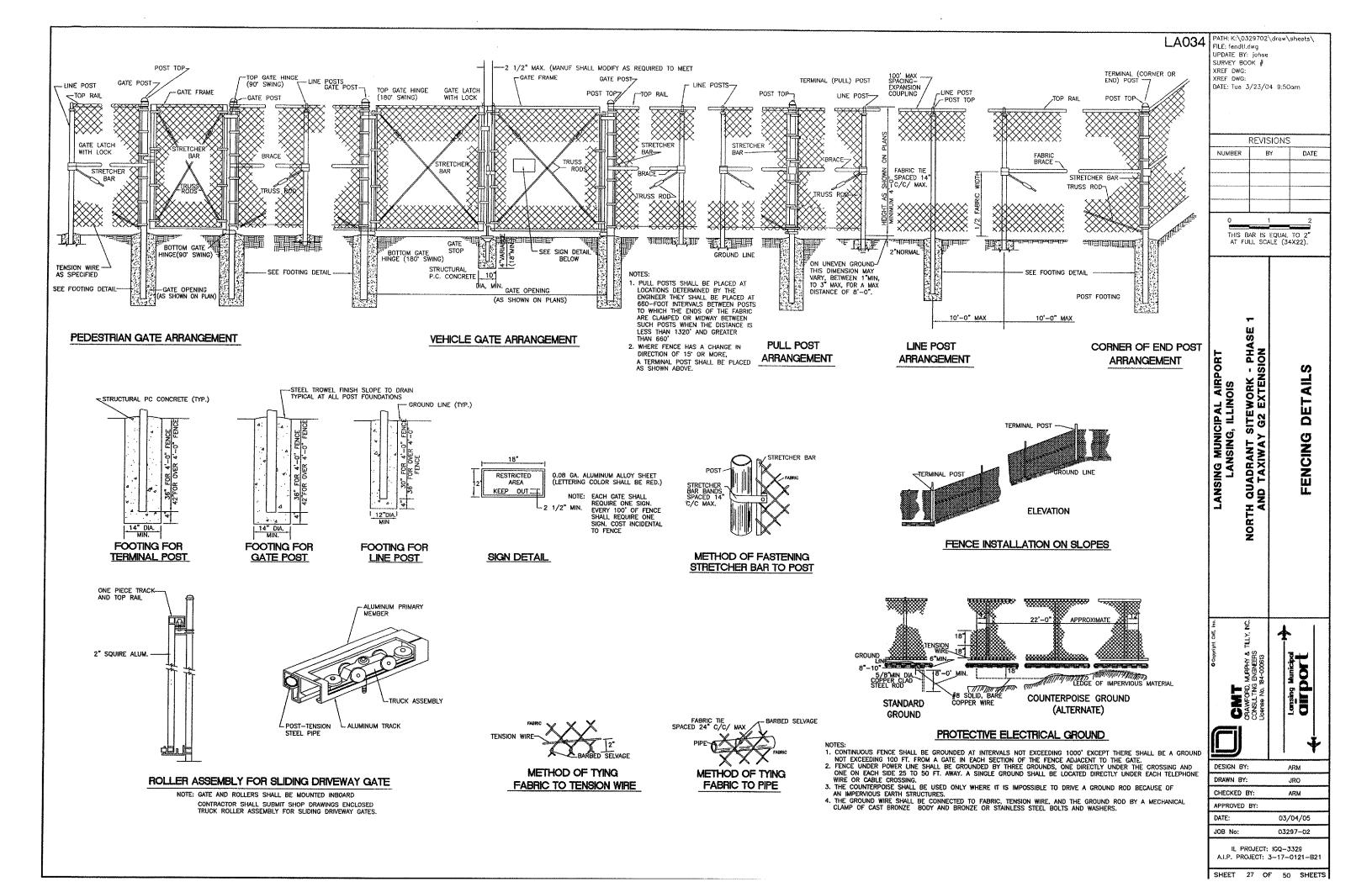
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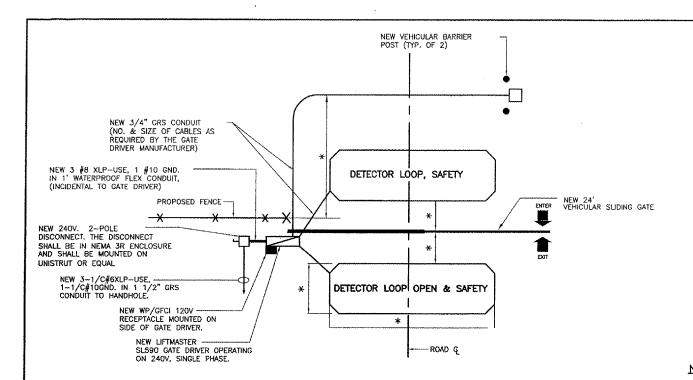
SOLID PRECAST CONC. BLOCK

CONCRETE SUPPORT

(.609M)

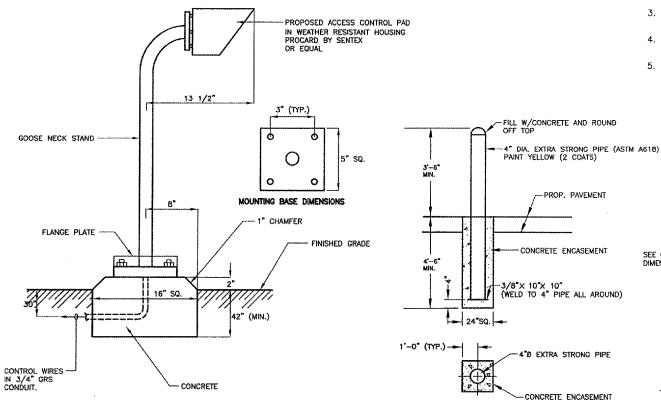
5'(1.52M)





NEW KEY PAD OPERATED GATE AND DETECTOR LOOP LAYOUT

PER MANUFACTURERS RECOMENDATION CONTRACTOR SHALL COORDINATE THIS WORK WITH ENGINEEER.



VEHICULAR BARRIER DETAIL NOT TO SCALE

NOTES:

ACCESS CONTROL PAD MOUNTING DETAIL

NOT TO SCALE

- 1. THE VEHICULAR BARRIERS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCIDENTAL TO ELECTRIC GATE.
- LOCATION OF UNDERGROUND ELECTRICAL ITEMS SHALL BE COORDINATED WITH VEHICULAR BARRIERS TO AVOID ANY CONFLICTS.
- CONTRACTORS SHALL INSTALL TWO VEHICULAR BARRIERS ADJACENT TO THE GATE OPERATOR AND TWO VEHICULAR BARRIERS ADJACENT TO ACCESS CONTROL PAD.

NOTES:

- THE LOCATION OF THE NEW GATE
 DRIVER, DISCONNECT AND DETECTOR
 LOOPS ARE FOR INFORMATION ONLY AND SHALL BE FIELD ADJUSTED PER THE MANUFACTURER RECOMMENDATION.
- 2. THE MINIMUM BURIAL DEPTH FOR GRS CONDUIT IS 30" BELOW FINISHED GRADE.
- 3. NO DIRECT BURIED CABLE WILL BE ALLOWED IN THE INSTALLATION OF THE NEW GATE DRIVER.

	GATE TYPE	GATE
A	DISTANCE BETWEEN GATE POSTS (INSIDE FACE TO INSIDE FACE)	24'-0"
В	DISTANCE BETWEEN HANGER POSTS (CENTER TO CENTER)	10'-0"*
С	OVERALL GATE LENGTH	34'-6"*
D	OVERALL GATE HEIGHT	6'~0"
ε	HEIGHT OF FABRIC IN GATE	5'0"
F	COUNTER BALANCE LENGTH	10-6"
G	HEIGHT OF 4" POSTS ABOVE GRADE	6'-6**
	*	

* OR AS RECOMMENDED BY MFG.

NOTES:

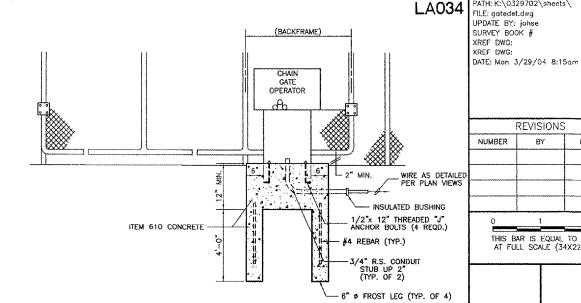
- CANTILEVERED GATE SHALL BE SUFFICIENTLY RIGID TO WITHSTAND FLEXING OR BENDING DURING WINDY CONDITIONS. CONTRACTOR SHALL PROVIDE STIFFENERS, STRUCTURAL SHAPES IN EXCESS OF THE MINIMUM SPECIFIED DIMENSIONS OR ADDITIONAL ROLLERS AND POSTS SUFFICIENT TO PREVENT DISPLACEMENT OF THE GATE BY WIND OR BY UNAUTHORIZED PERSONNEL.
- CONTRACTOR SHALL INSTALL GATE AS A COMPLETE WORKING UNIT. THE GATE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE GATE, CHAIN GATE OPERATOR AND FOUNDATION, AND POWER CABLES CONDUIT, TRENCHING, CIRCUIT BREAKERS AND ALL CONNECTIONS, LABOR AND MATERIALS NECESSARY TO COMPLETE OPERATION.
- 3. LOCATION OF THE GATE OPERATOR SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- THE FABRIC TYPE AND FINISH OF THE GATE SHALL MATCH WITH THE NEW FENCE OR AS DIRECTED BY THE ENGINEER.

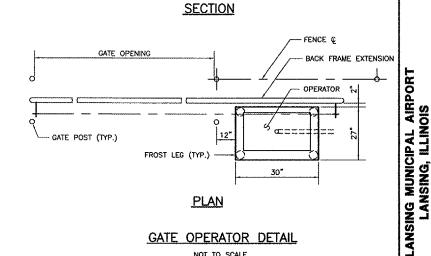
OCATIONS, DETAILS AND CHARACTER

OF EQUIPMENT SHOWN ON THIS SHEET ARE GENERIC. EQUIPMENT LOCATIONS
SHALL BE AS RECOMMENDED BY THE

EQUIPMENT MANUFACTURER.

ALL NEW SLIDING VEHICULAR GATES SHALL HAVE ENCLOSED TRUCK ASSEMBLIES, SAFE-GLIDE BY EDKO OR EQUAL.

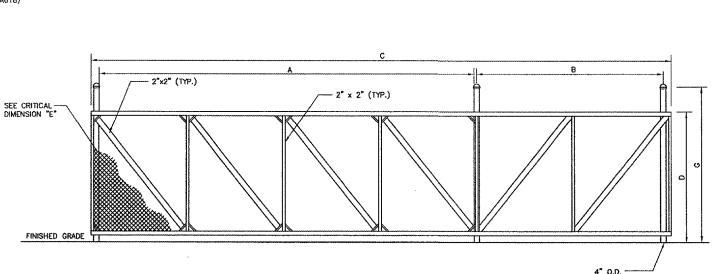




GATE OPERATOR DETAIL

DOUBLE POST

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DESIGN BY ARM

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AT FULL SCALE (34X22).

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DRAWN BY JRO ARM CHECKED BY: APPROVED BY:

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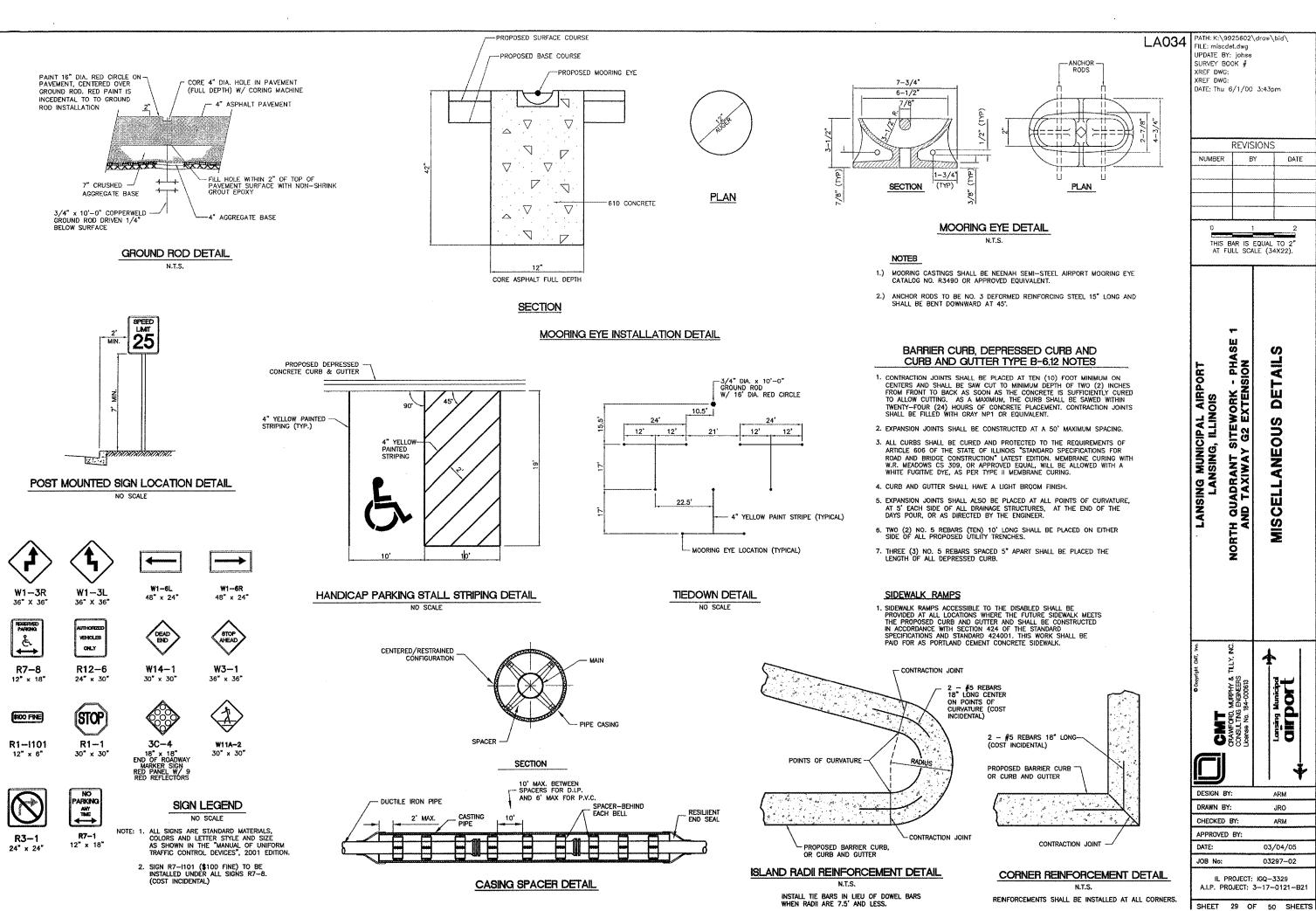
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SHEET 28 OF 50 SHEETS

CANTILEVER SLIDE GATE

ELEVATION



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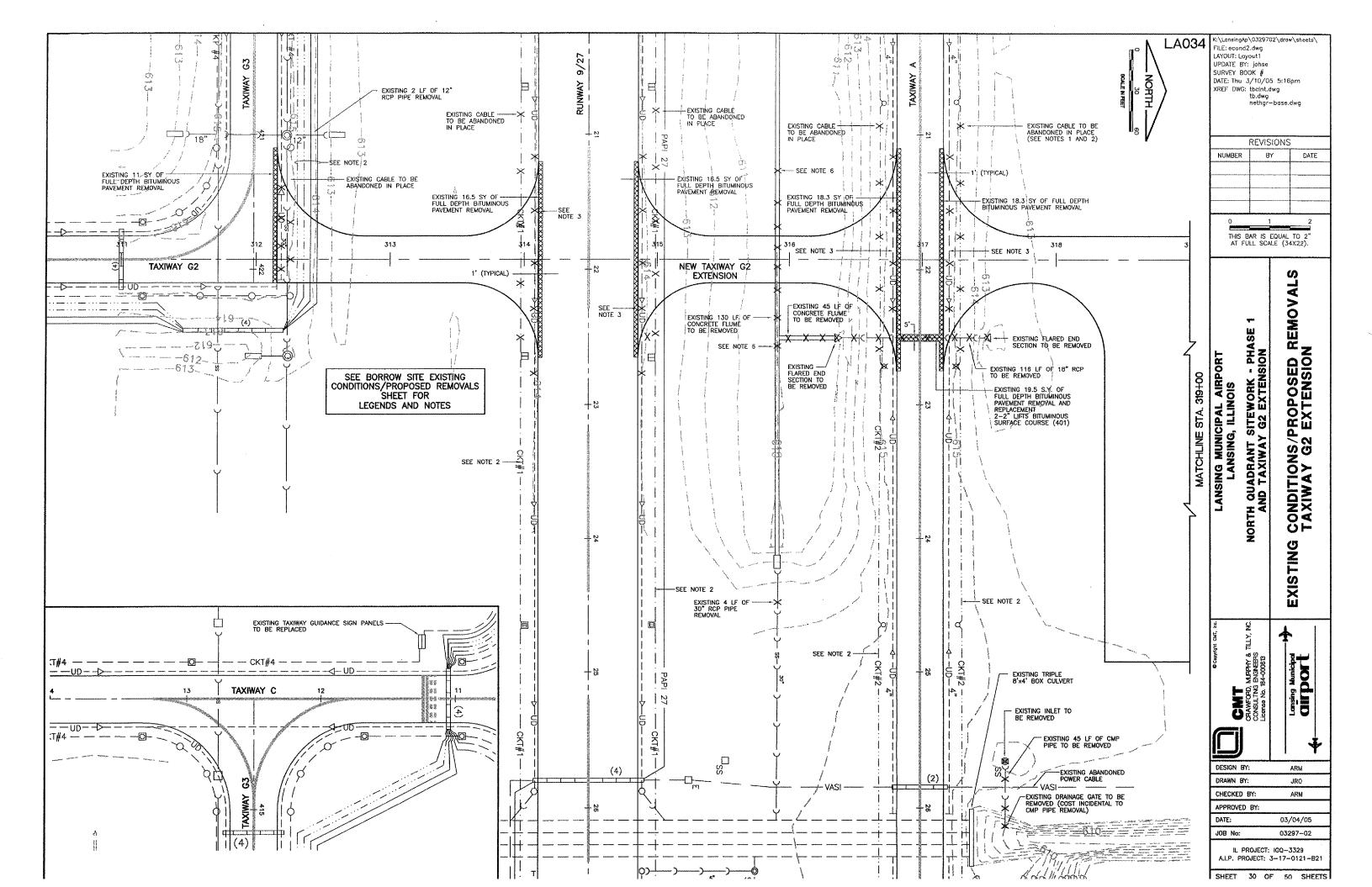
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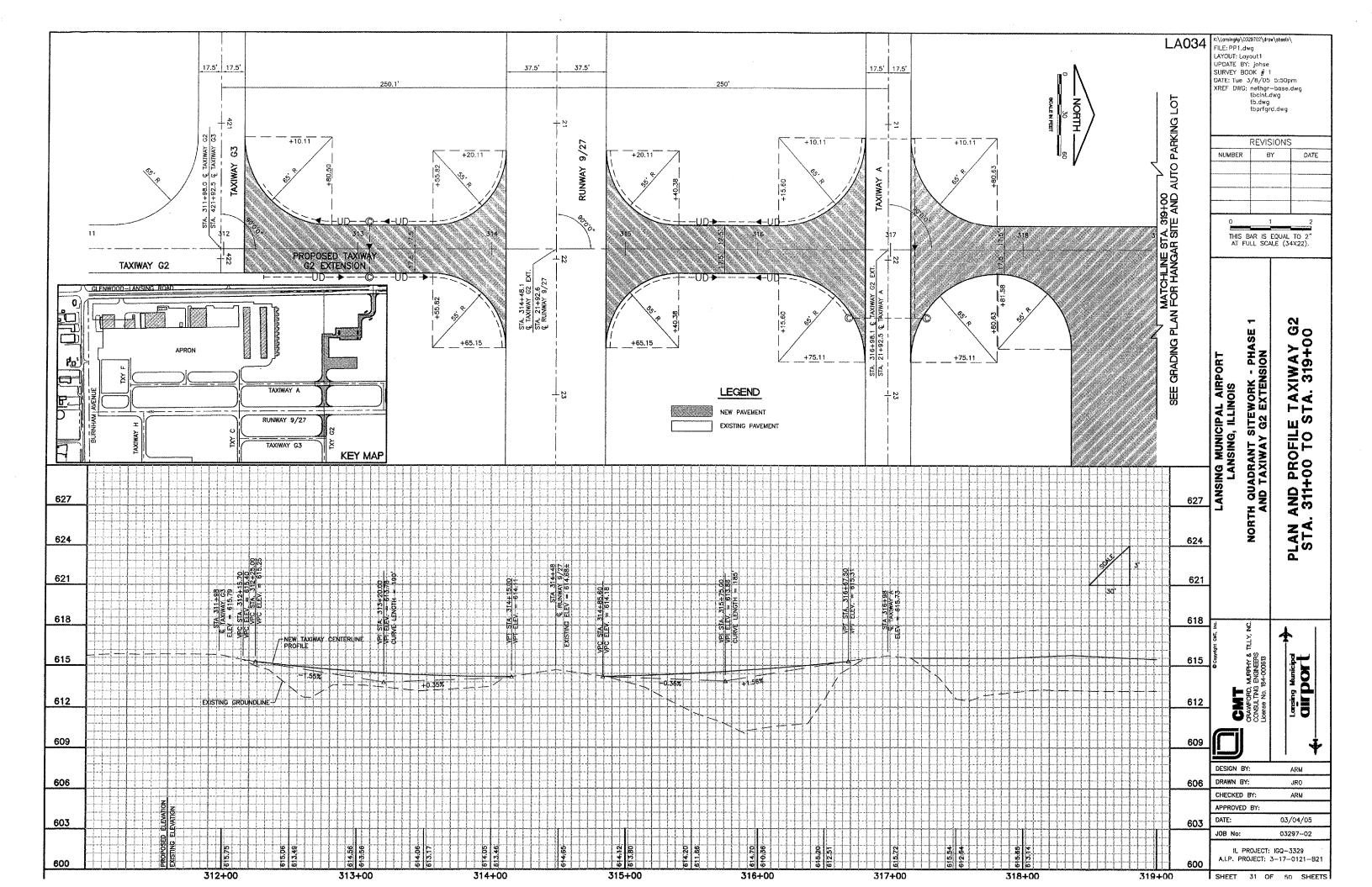
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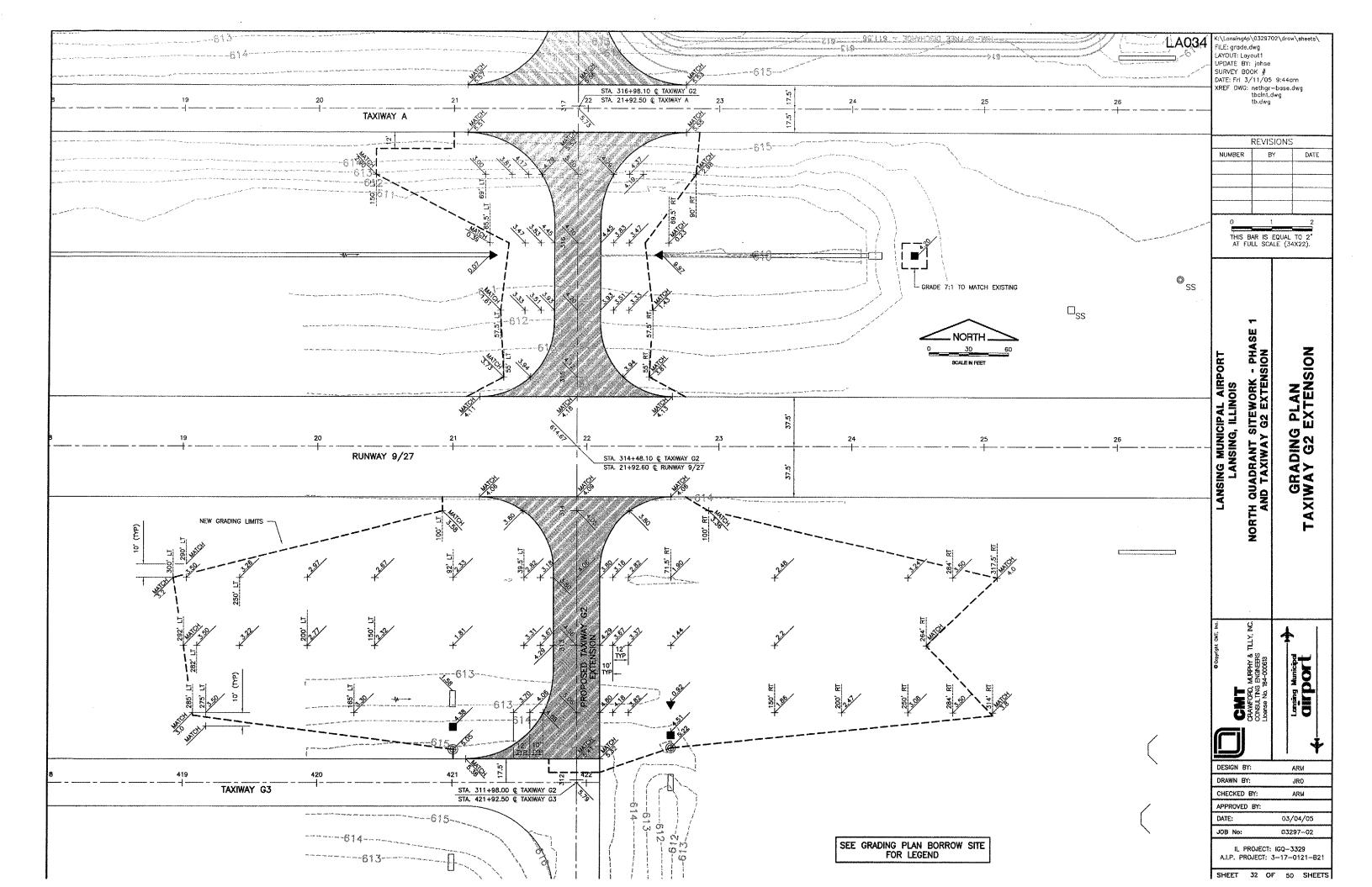
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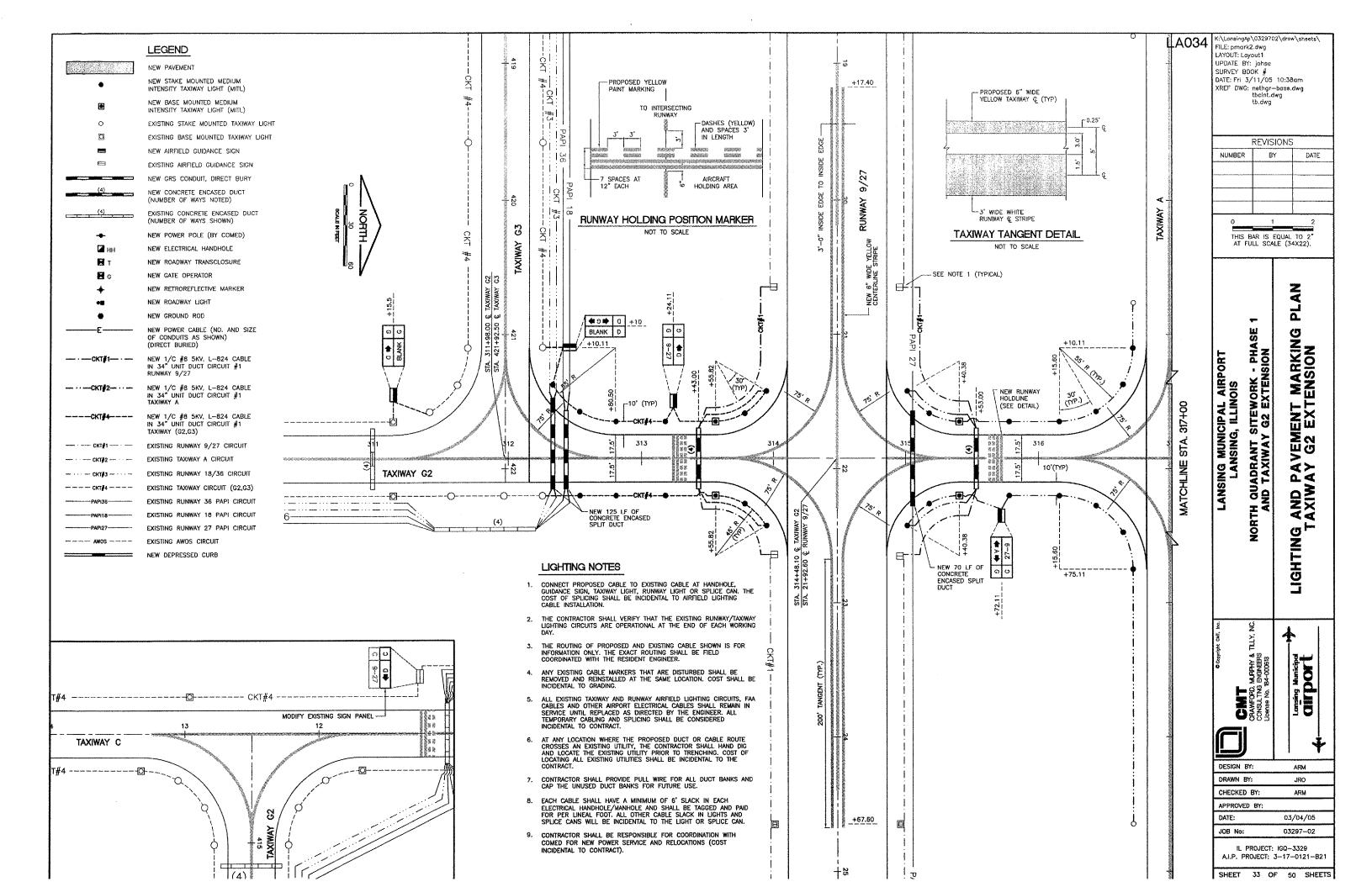
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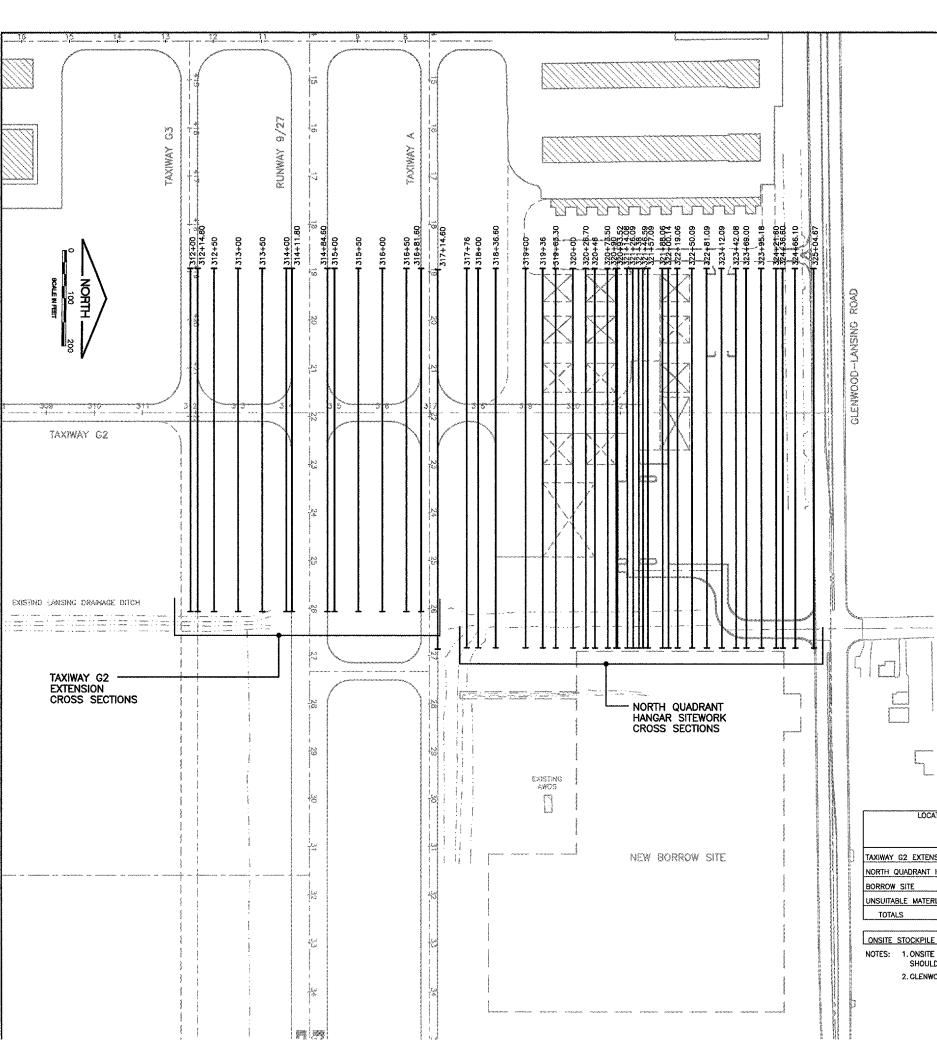
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GENERAL EARTHWORK NOTES:

- ALL EARTHWORK QUANTITIES ARE CALCULATED BASED ON THE MATERIAL IN ITS INITIAL OR FINAL POSITION AS SHOWN IN THE PLANS AND QUANTIFIED BY METHOD OF AVERAGE END AREAS. SHRINKAGE FACTORS HAVE BEEN ESTIMATED AND ARE INCLUDED FOR THE UNCLASSIFIED EXCAVATION DISPOSAL. QUANTITY AND NO CHANGES IN PAYMENT WILL BE MADE FOR ANY
- ALL HAUL ROADS TO BE CONSTRUCTED FOR THE PROJECT WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- SURPLUS MATERIALS SHALL BE STOCKPILED ONSITE BY THE CONTRACTOR. STOCKPILING OF EXCESS MATERIALS SHALL BE PAID FOR AS ONSITE STOCKPILE. SEE STORM WATER POLLUTION PREVENTION PLAN FOR APPROXIMATE LOCATION OF STOCKPILE.
- CONTRACTOR'S HAUL ROADS SHALL BE RESTORED WITH 4" MINIMUM OF TOPSOIL PLACED. ALL HAUL ROAD RESTORATION SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 5. WHEN THE VOLUME OF UNCLASSIFIED EXCAVATION IS NOT SUFFICIENT FOR EMBANKMENT FILL, IT SHALL BE SUPPLIED FROM THE ON-SITE BORROW
- UNCLASSIFIED EXCAVATION IS INCIDENTAL TO EMBANKMENT FILL. TOPSOIL STRIPPING IS INCIDENTAL TO TOPSOIL PLACEMENT AND SHOULDER FILL.
- 7. EXISTING BERMS SHALL REMAIN IN PLACE AT THE LANSING DRAINAGE DITCH.
- 8. BORROW AREA SHALL HAVE 4" MINIMUM OF TOPSOIL PLACED AND SEEDED AND MULCHED. SEEDING AND MULCHING SHALL BE PAID UNDER ITEMS 901 AND 908, RESPECTIVELY. CONTRACTOR'S HAUL ROADS TO THE BORROW SITE SHALL HAVE 4" MINIMUM OF TOPSOIL PLACED AND SEEDED AND MULCHED
- AREAS OF UNSUITABLE MATERIAL (UNCLASSIFIED EXCAVATION) SHALL BE AS DESIGNATED BY THE ENGINEER. THE QUANTITY OF UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT FILL MATERIAL UNLESS AUTHORIZED
- 10. CONTRACTOR IS REQUIRED TO CONSTRUCT THE PROPOSED BORROW SITE NO HIGHER THAN THE LINES AND GRADES SHOWN TO MEET COMPENSATORY STORAGE VOLUME REQUIREMENTS PER THE IDOT OFFICE OF WATER RESOURCES PERMIT.
- 11. THE STOCKPILING OF EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION SHALL BE KEPT SEPERATE. ALL STOCKPILES SHALL HAVE 4" MINIMUM OF TOPSOIL PLACED. COSTS ASSOCIATED WITH SEPARATION OF STOCKPILES AND TOPSOIL PLACEMENT SHALL BE INCIDENTAL TO THE PAY ITEM.

LEGEND

NEW PAVEMENT EXISTING BUILDING

PROPOSED/FUTURE BUILDING/PAVEMENT

EXISTING PAVEMENT

EARTHWORK SUMMARY TABLE

LOCATION	TOPSOIL STRIPPING	TOPSOIL PLACEMENT	SHOULDER FILL	UNCLASSIFIED EXCAVATION	EMBANKMENT FILL
	INITIAL POSITION (CUBIC YARD)	FINAL POSITION (CUBIC YARD)	FINAL POSITION (CUBIC YARD)	INITIAL POSITION (CUBIC YARD)	FINAL POSITION (CUBIC YARD)
TAXIWAY G2 EXTENSION	1,807	585	671	1,046	649
NORTH QUADRANT HANGAR SITEWORK	10,984	2,720	2,470	5,580	21,405
BORROW SITE	13,234	4,443	10	25,290	-
UNSUITABLE MATERIAL				1,000	
TOTALS	26,025	7,748	3,151	32,915	22,054
ONSITE STOCKPILE	14,036	_	_	7,553	_

- NOTES: 1. ONSITE STOCPILE SHALL BE COMPUTED USING 10% SHRINKAGE FOR TOPSOIL PLACEMENT AND SHOULDER FILL AND 15% SHRINKAGE FOR EMBANKMENT FILL.
 - 2. CLENWOOD-LANSING ROAD EARTHWORK QUANTITIES ARE NOT INCLUDED IN THE ABOVE EARTHWORK SUMMARY TABLE.

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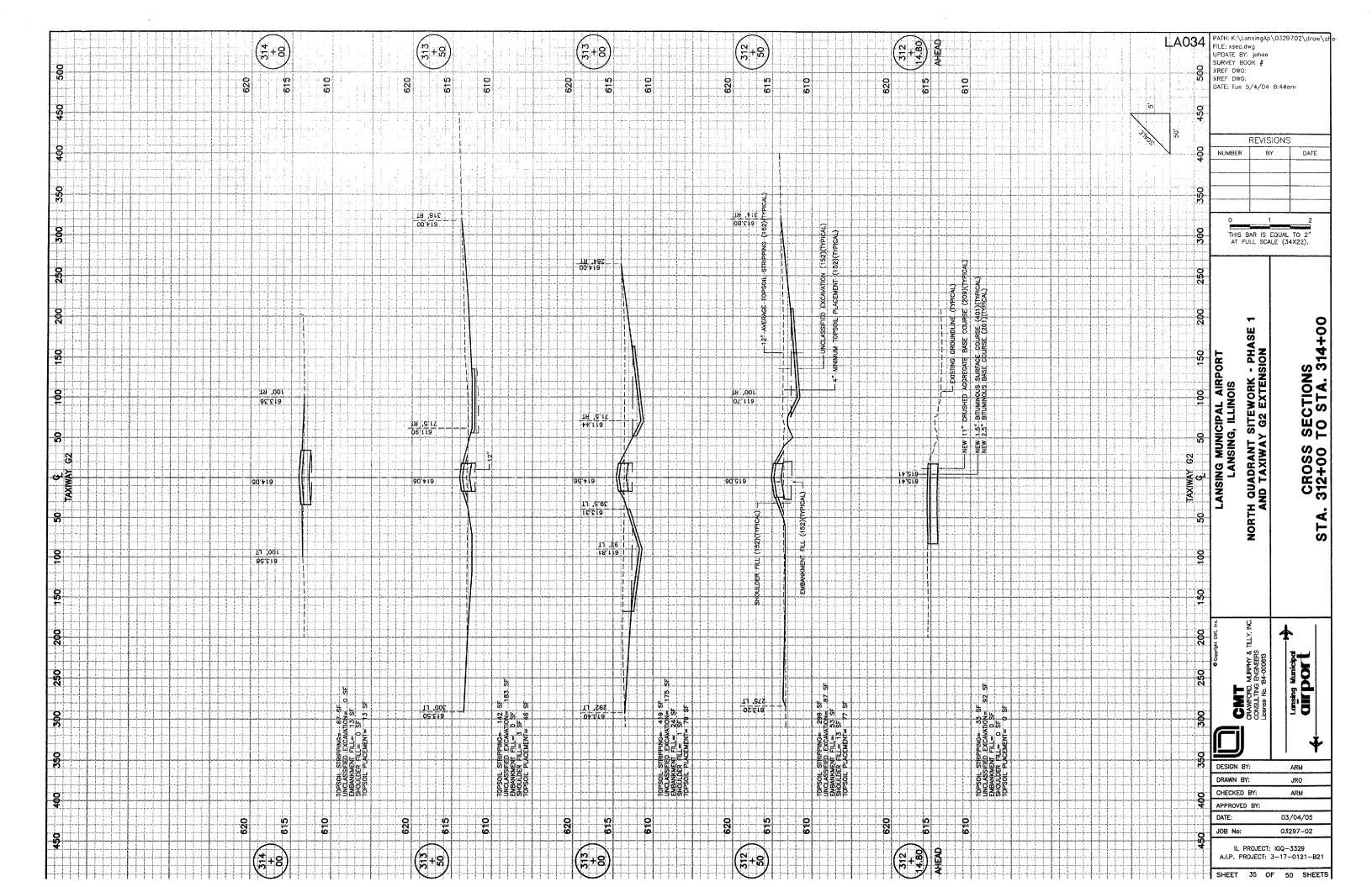
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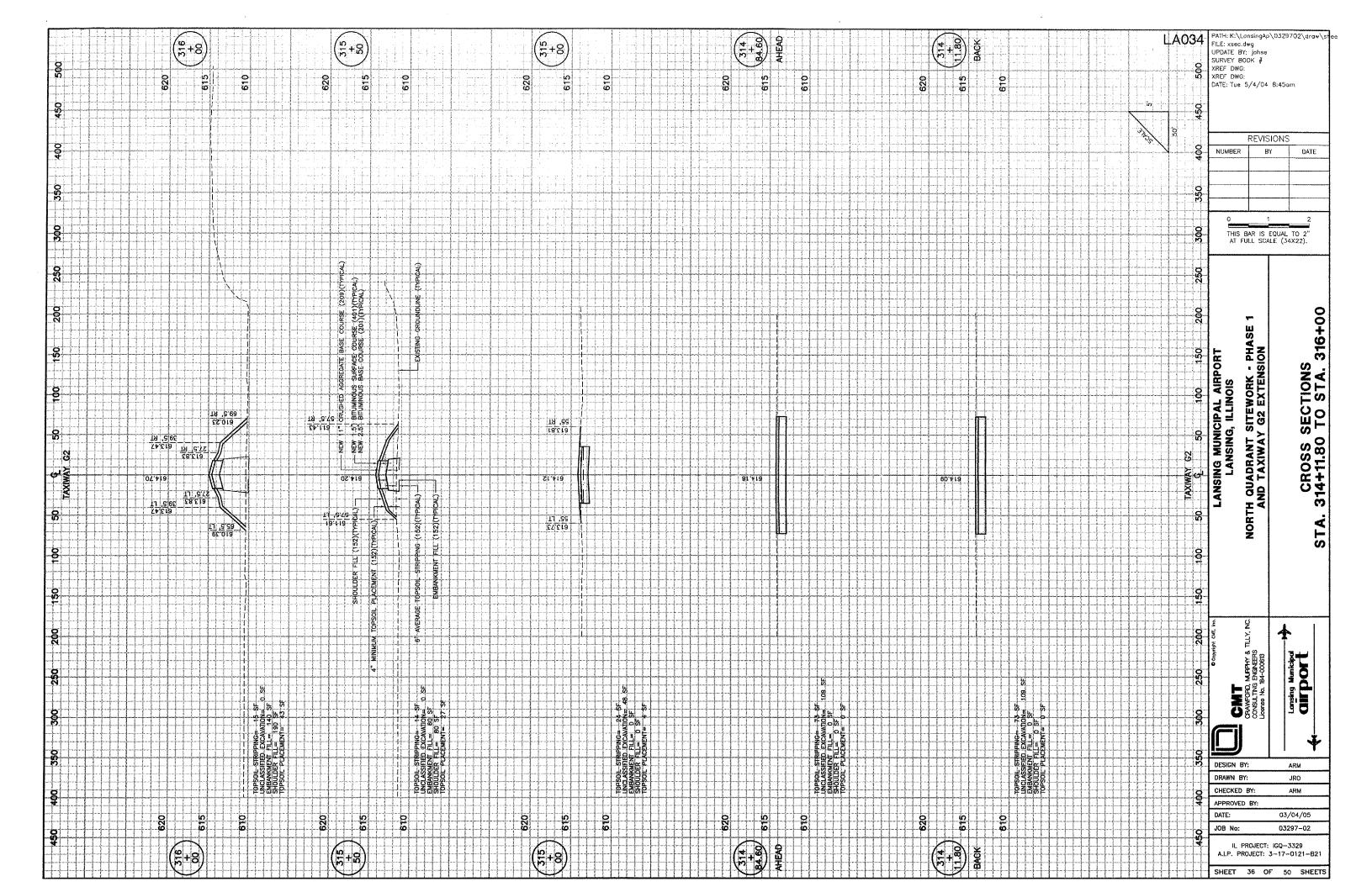
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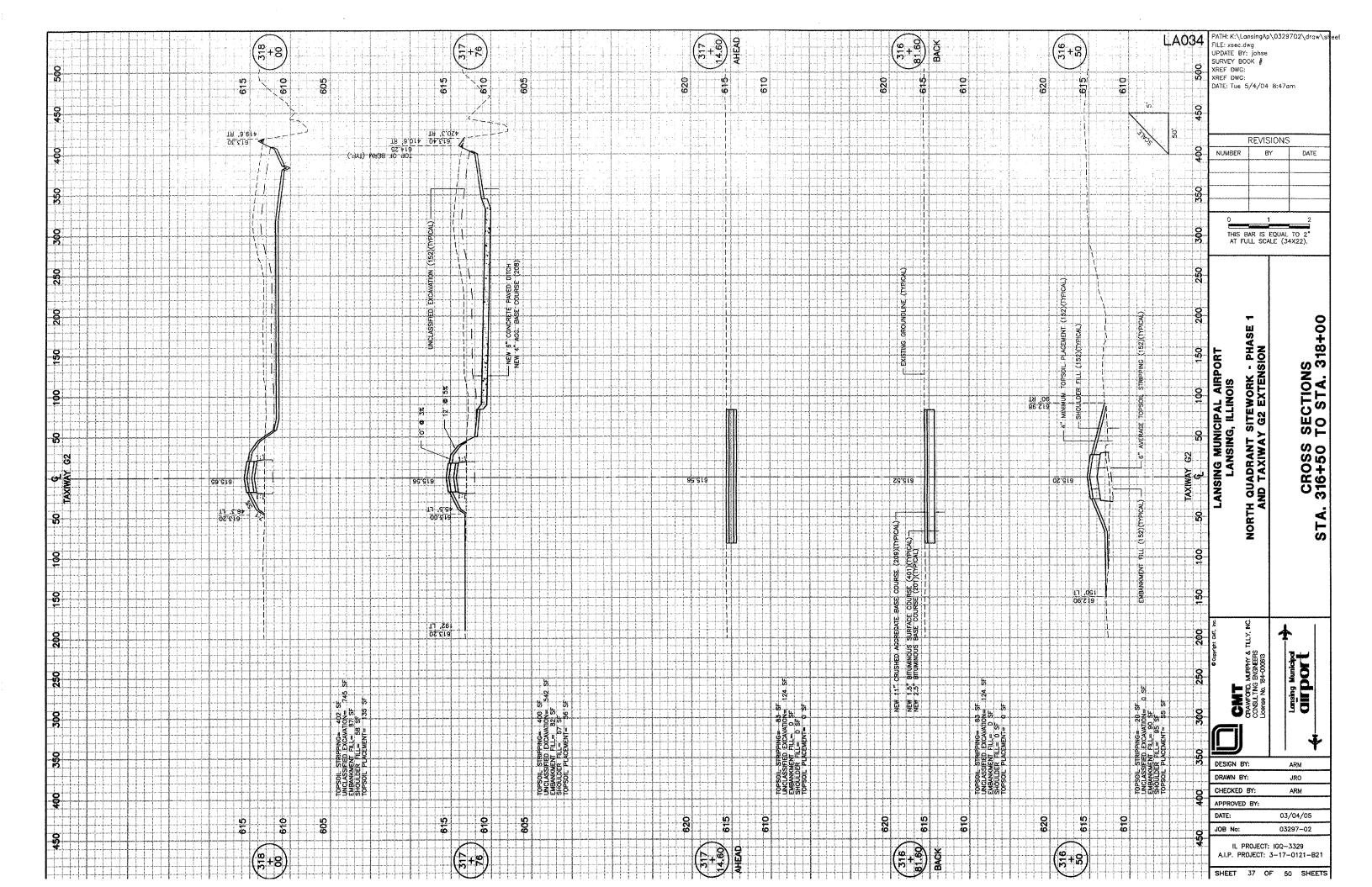
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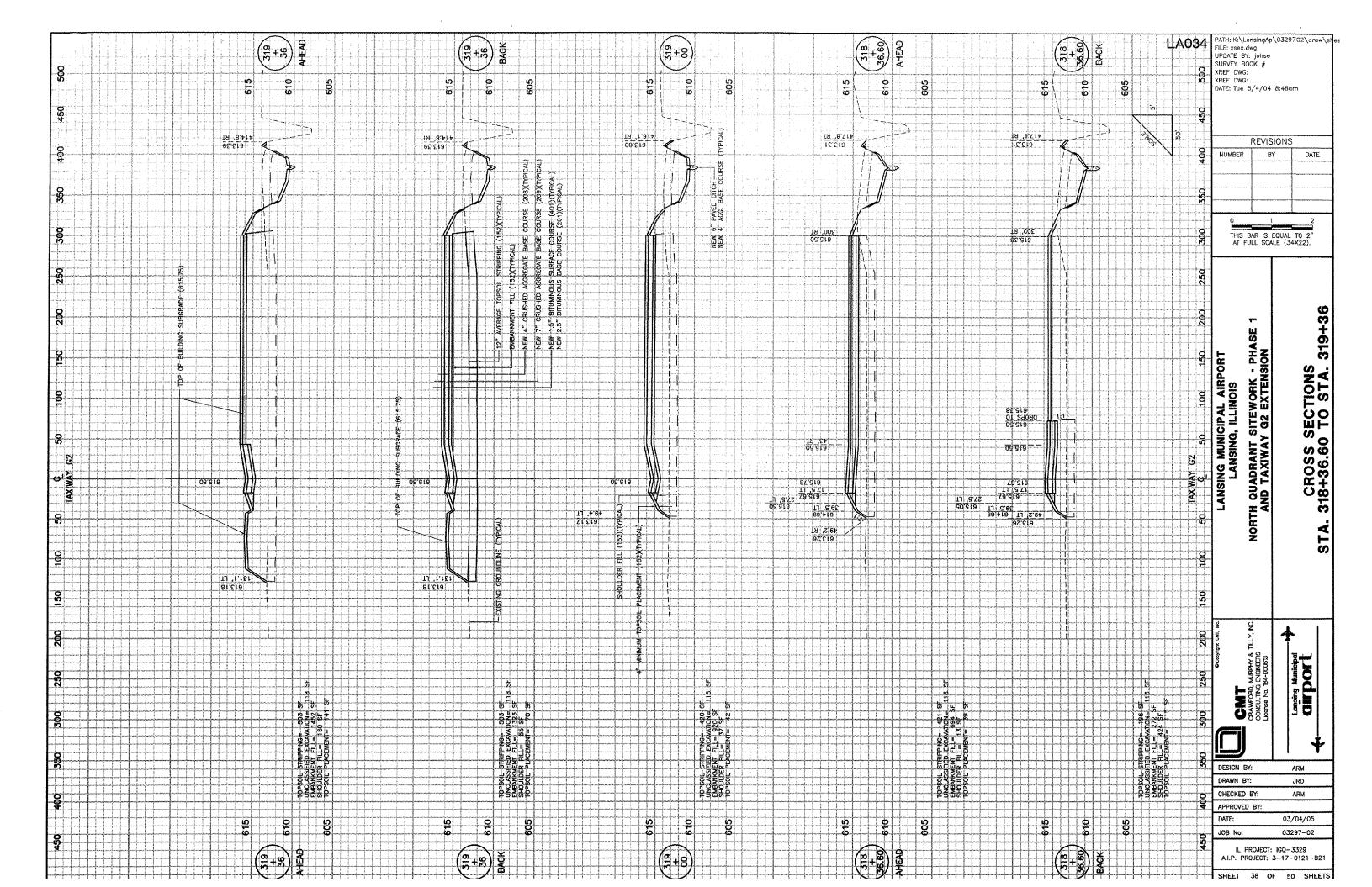
SHEET 34 OF 50 SHEETS

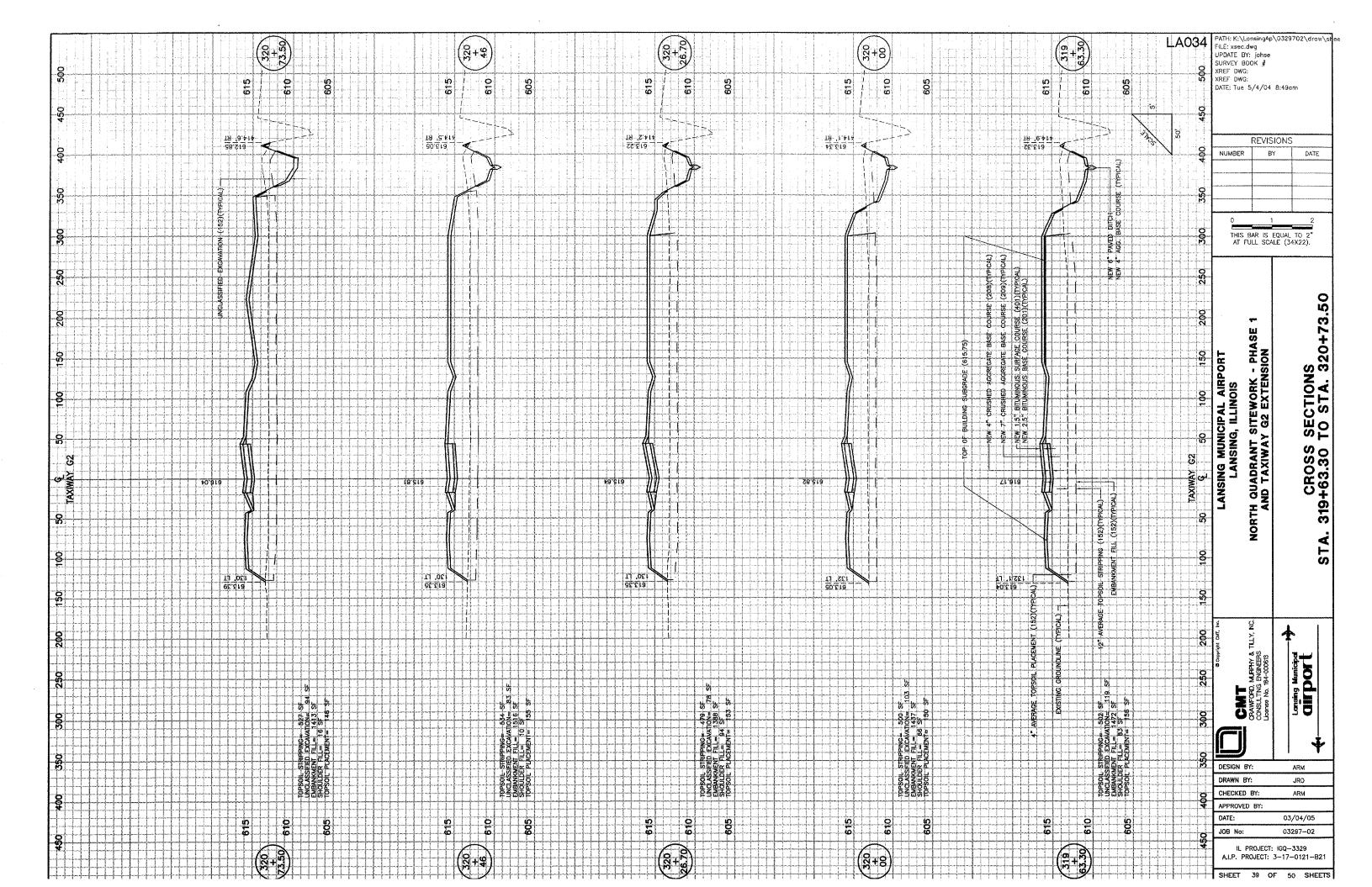
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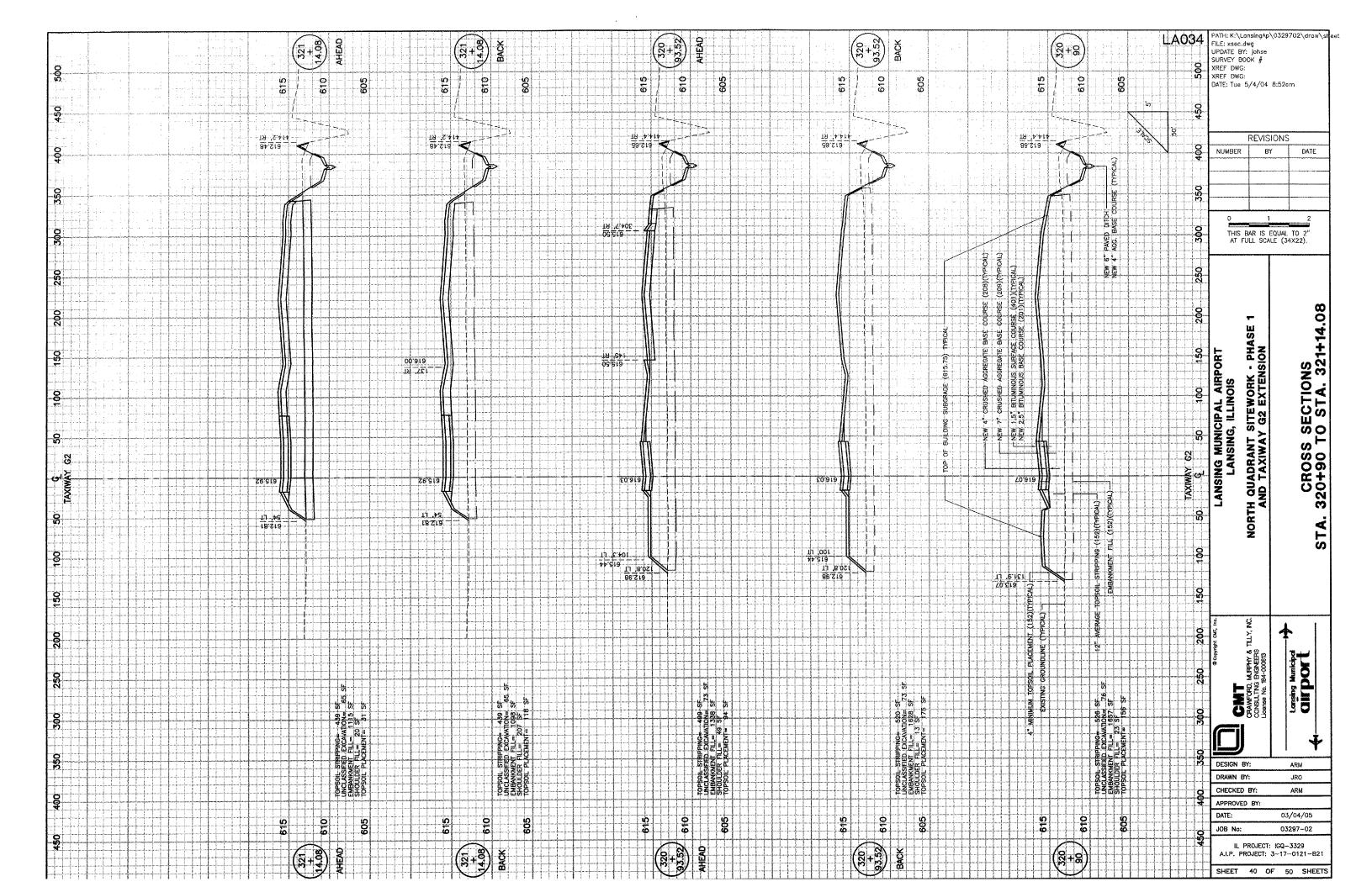


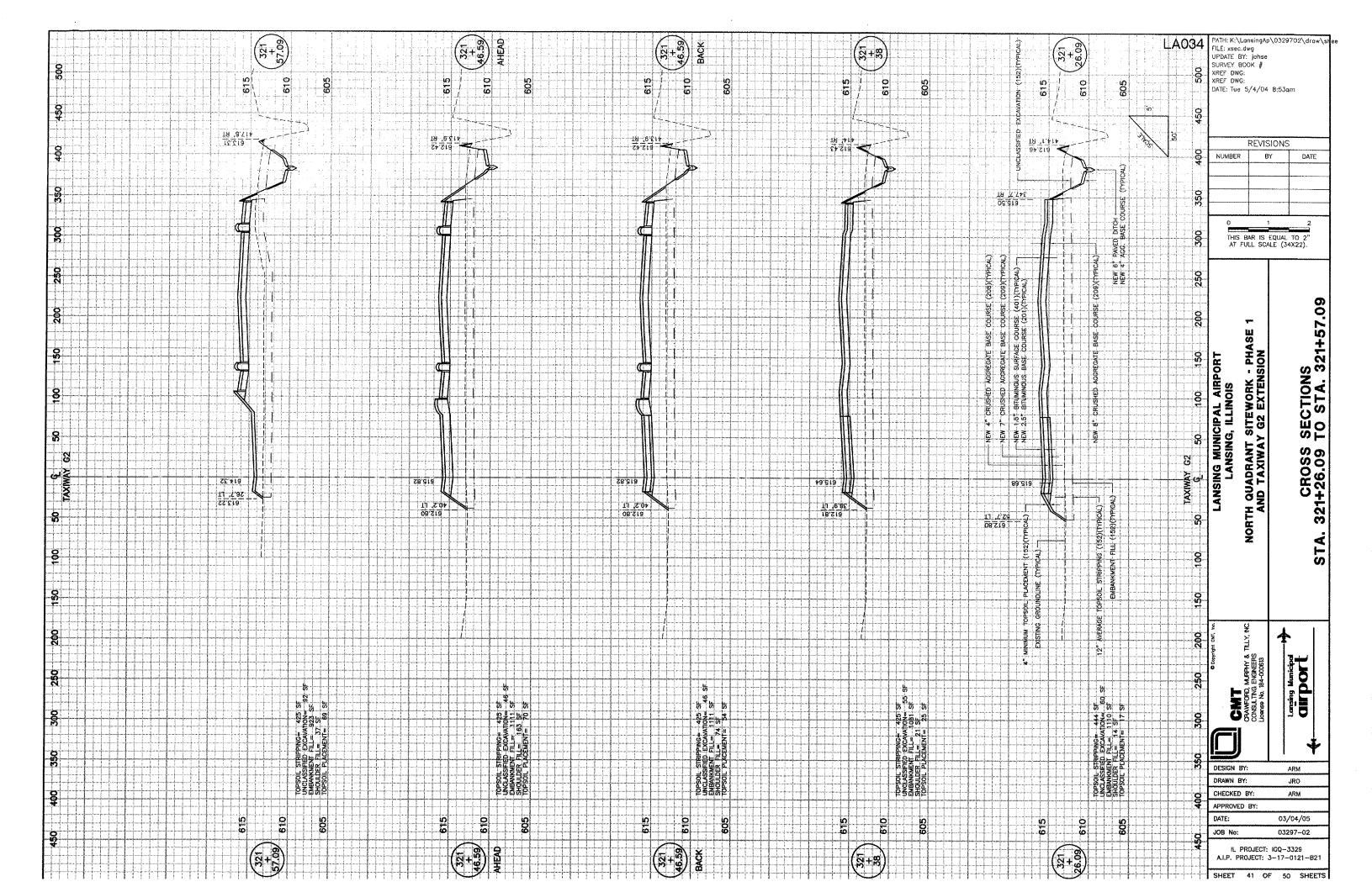


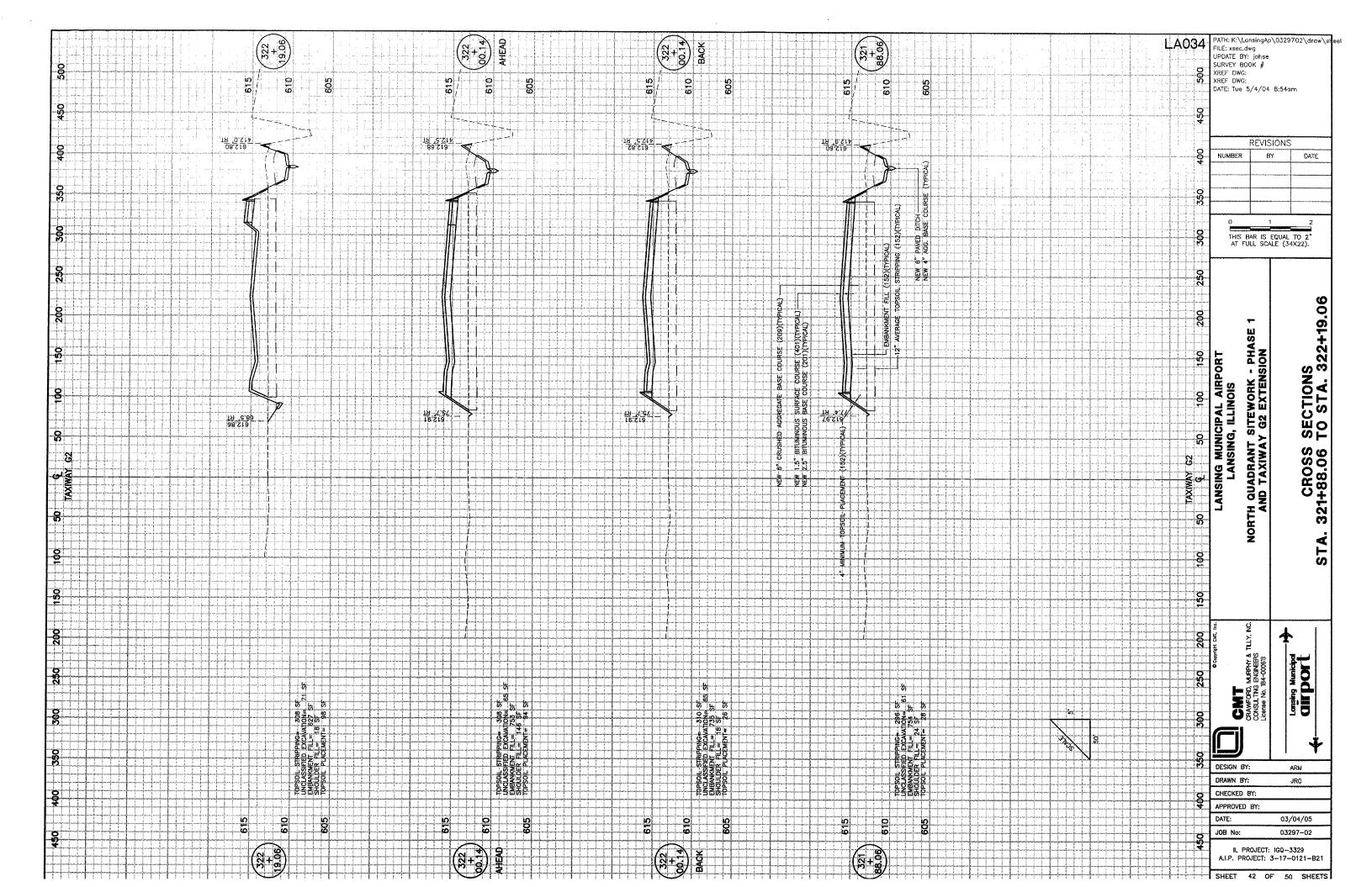


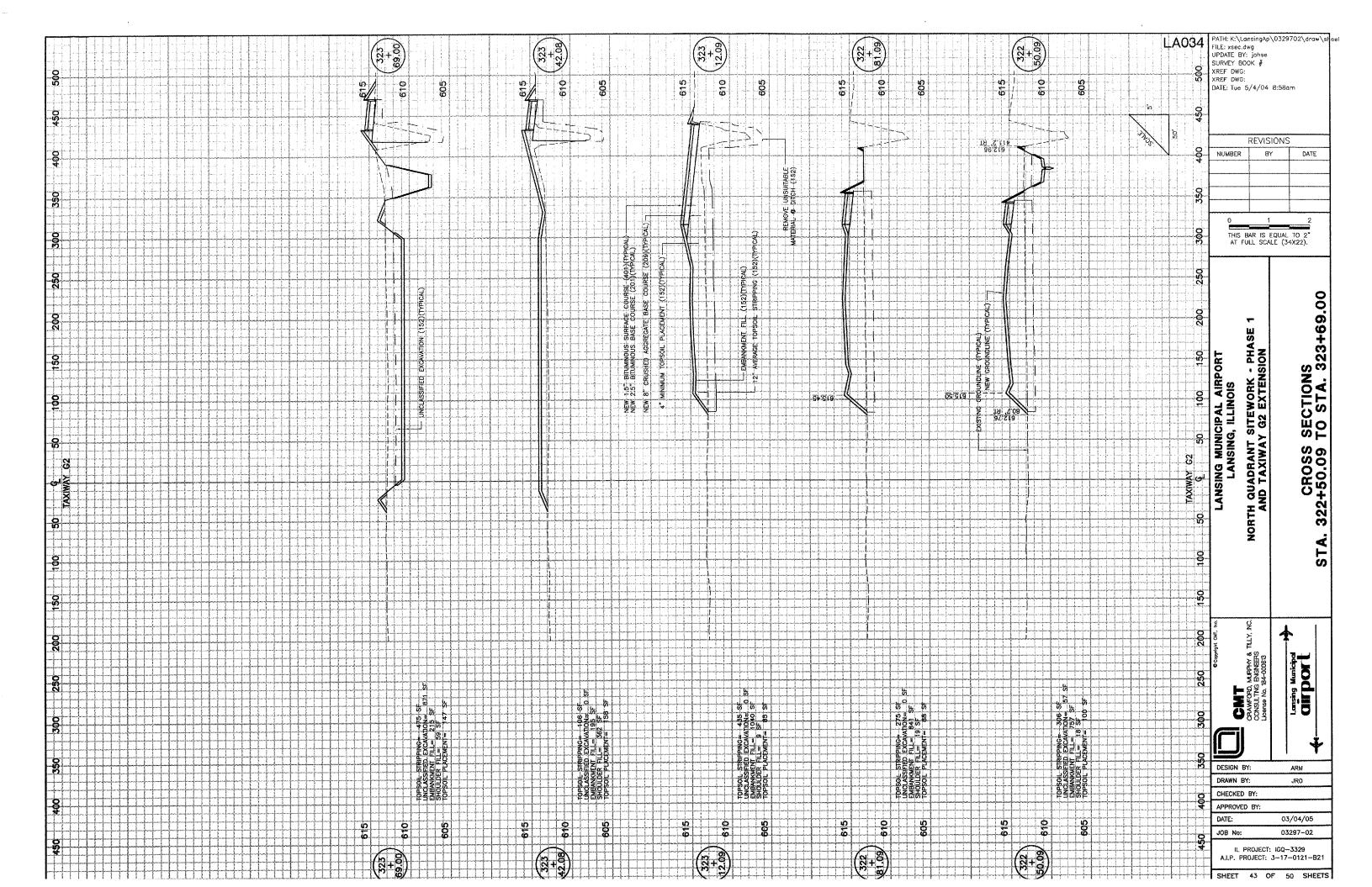


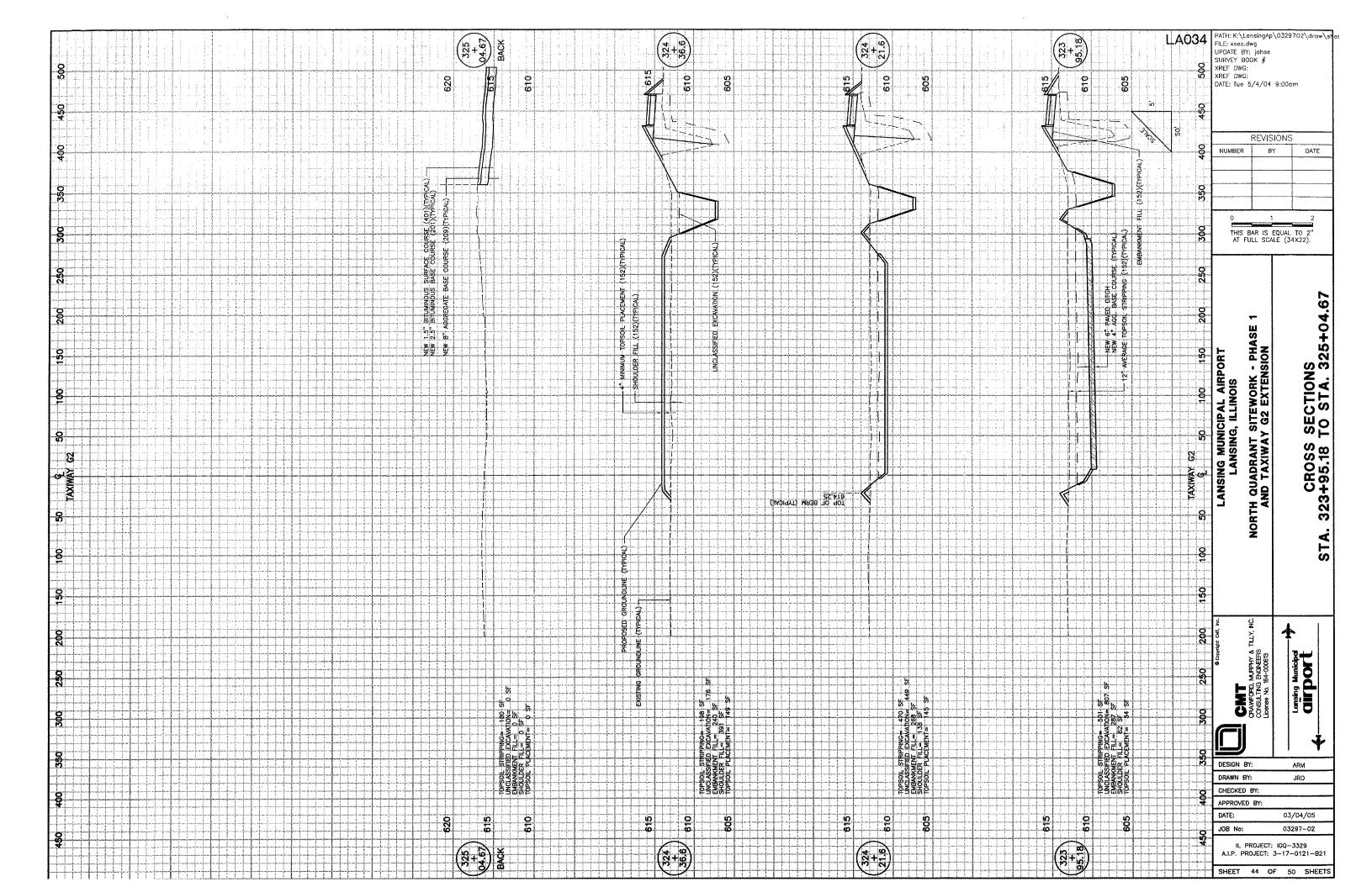


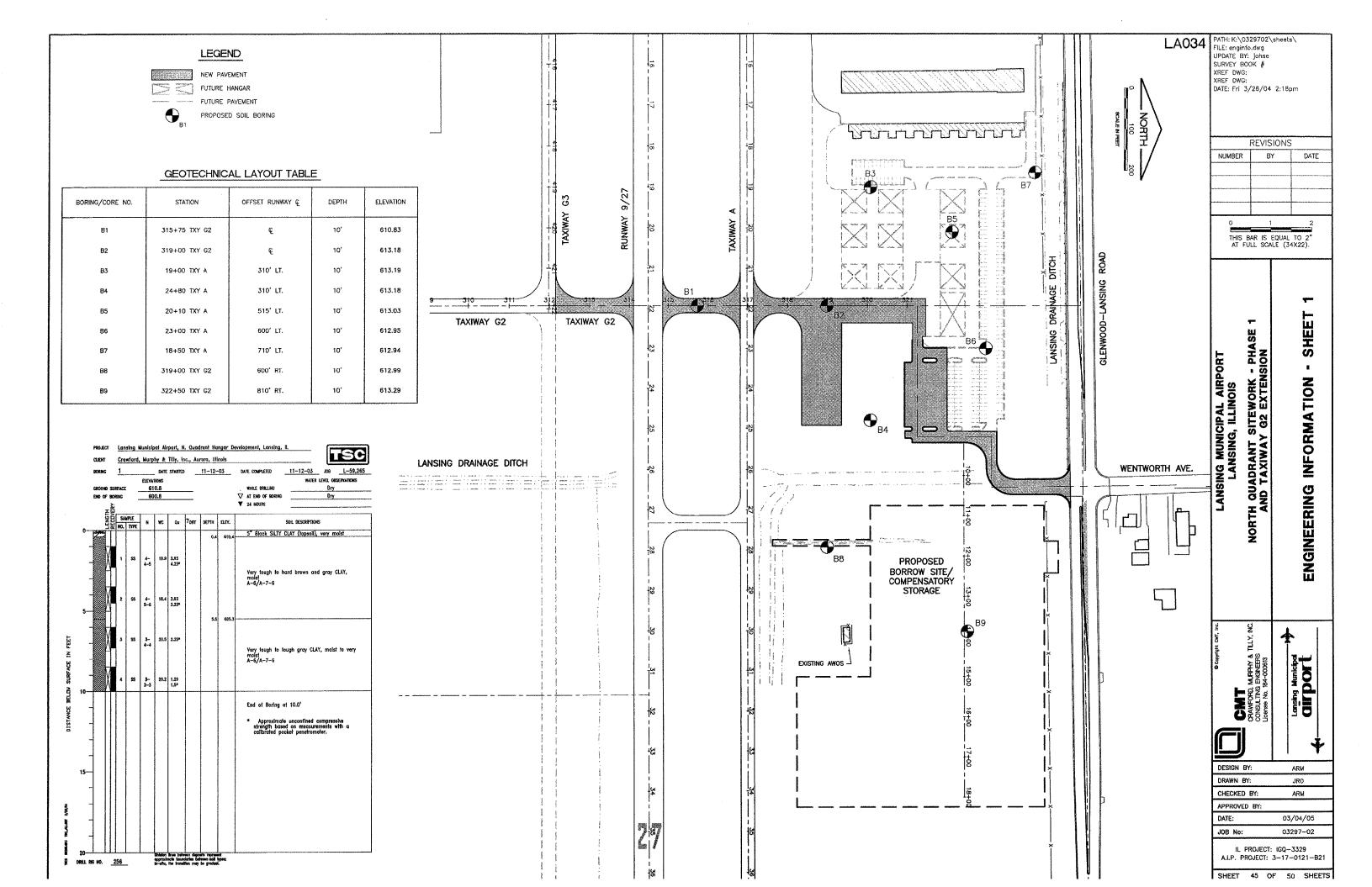


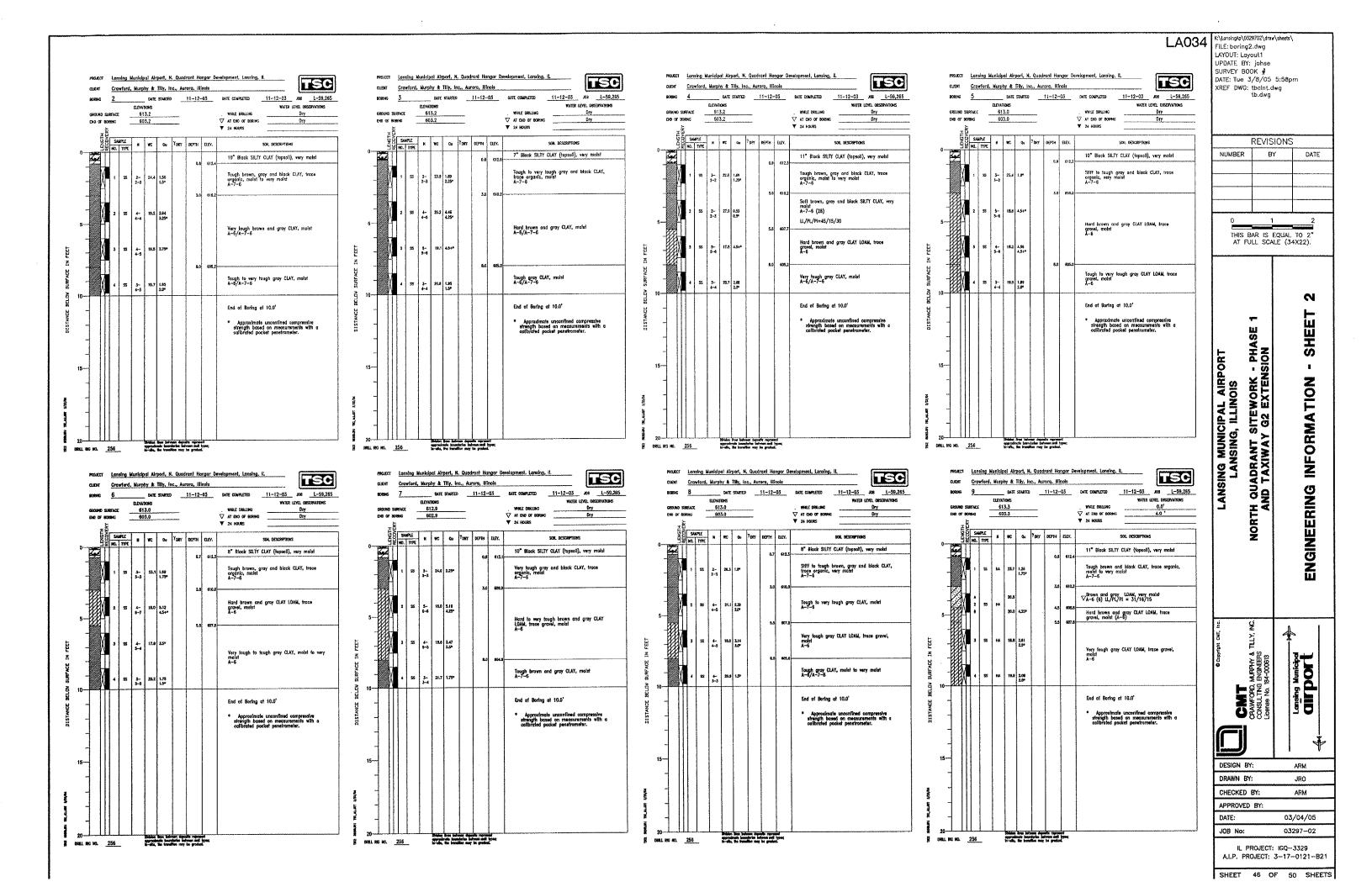


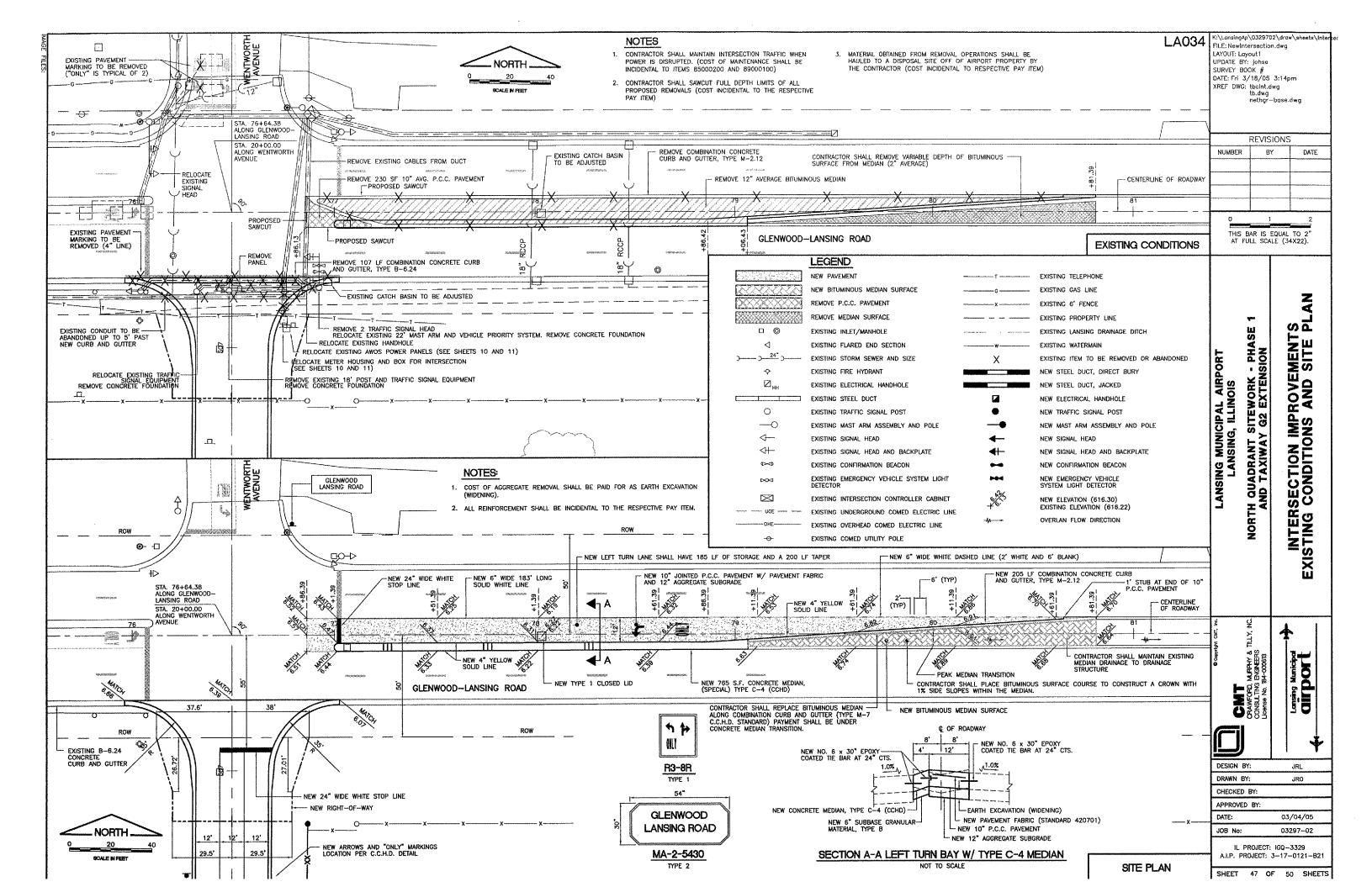


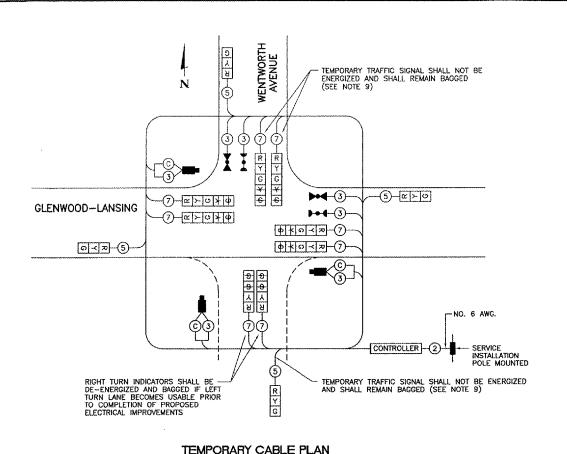












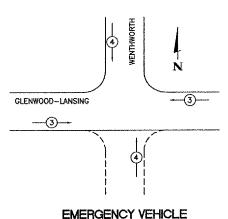
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SIGNAL LENSES

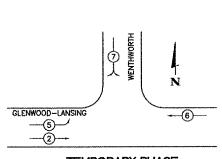
- YELLOW
 GREEN
 YELLOW TURN INDICATOR
 GREEN TURN INDICATOR
 GREEN TURN INDICATOR

ESTIMATED BILL OF MATERIALS - TEMPORARY

TOTAL	UNIT	DESCRIPTION		
1	EACH	B-PHASE CONTROLLER/CABINET WITH ALLIED EQUIPMENT		
4	EACH	SIGNAL HEAD, ALUMMINUM, 1-FACE, 3-SECTION		
8	EACH	SIGNAL HEAD, ALUMMINUM, 1-FACE, 5-SECTION		
850	LIN.FT.	ELECTRIC CABLE OVERHEAD NO 14 - 7/C		
450	LIN.FT.	ELECTRIC CABLE OVERHEAD NO 14 - 5/C		
830	LIN.FT.	ELECTRIC CABLE OVERHEAD NO 14 - 3/C		
190	LIN.FT.	ELECTRIC CABLE OVERHEAD NO 20 - 3/C		
50	LIN.FT.	ELECTRIC CABLE 6 AWG ~ 2/C		
800	LIN.FT.	COAXIL CABLE		
450	LIN.FT.	MESSENGER WIRE		
450	LIN.FT.	TETHER WIRE		
4	EACH	WOOD POLE		
1	EACH	SERVICE INSTALLATION POLE MOUNTED		
4	EACH	VEHICLE VIDEO DETECTOR		
2	EACH	EMERGENCY VEHICLE LIGHT DETECTOR		
2	EACH	CONFIRMATION BEACON		



EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY PHASE **DESIGNATION DIAGRAM - 1A**

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY SPAN WIRE TETHER WIRE AND CABLE

 \bowtie

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1

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EXISTING CONTROL CABINET

TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED

TEMPORARY WOOD POLE

(CLASS 5 OR BETTER) 45 POST MINIMUM

EXISTING DOUBLE HANDHOLE EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

TEMPORARY CONTROLLER CABINET MICROWAVE VEHICLE SENSOR/VIDEO

DETECTION SYSTEM

EXISTING EQUIPMENT TO BE REMOVED LEGEND

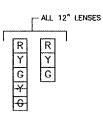
EXISTING SIGNAL HEAD TO BE REMOVED EXISTING SIGNAL POST AND FOUNDATION

EXISTING HANDHOLE TO BE REMOVED

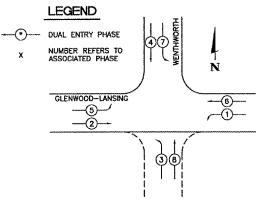
EXISTING VEHICLE LIGHT DETECTOR TO BE REMOVED

EXISTING CONFIRMATION BEACON TO BE REMOVED

EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

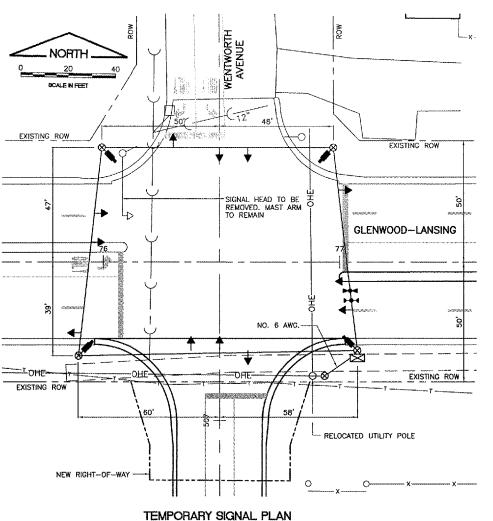


SIGNAL FACES



TEMPORARY PHASE **DESIGNATION DIAGRAM - 1B**

PHASE 18 SHALL BE INCORPORATED INTO SEQUENCE, IF LEFT TURN LANE BECOMES USABLE PRIOR TO COMPLETION OF PROPOSED ELECTRICAL IMPROVEMENTS. (COST INCIDENTAL TO TEMPORARY TRAFFIC CONTROL)



NOTES FOR TEMPORARY TRAFFIC SIGNALS

SCALE: 1"=20'

1ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE STATED IN THE PLANS. ON PROJECTS WITH MULTIPLE TEMPORARY TRAFFIC SIGNAL INSTRUCTIONS. ALL CONTROLLERS SHALL BE THE SAME MANUFACTURER BRAND AND MODEL NUMBER WITH CURRENT SOFTWARE INSTALLED.

ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED INSTALLED IN CABINETS WITH 8 PHASE BACK PANELS. CAPABLE OF SUPPLYING 255 SECONDS OF CYCLE LENGTH AND INDIVIDUAL PHASE LENGTH SETTINGS UP TO 99 SECONDS. ON PROJECTS WITH ONE LANE OPEN AND TWO WAY TRAFFIC FLOW, SUCH AS BRIDGE DECK REPAIRS, TEMPORARY SIGNAL CONTROLLER SHALL BE CAPABLE OF PROVIDING ADJUSTABLE ALL RED CLEARANCE SETTINGS OF UP TO 30 SECONDS IN LENGTH.

TALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION 857 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREEMPTION.

ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE OF THE 12" TYPE. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. 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 HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

SALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES AND RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE.

GANY TEMPORARY TRAFFIC SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND REACTIVATED.

TALL LABOR AND MATERIAL REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

STEMPORARY VIDEO DETECTION SYSTEM SHALL BE CONSIDERED AS PART OF THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION". ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCONTRACTOR TO VERIFY LOCATION AND DIRECTION OF MAST ARMS AND CAMERAS.

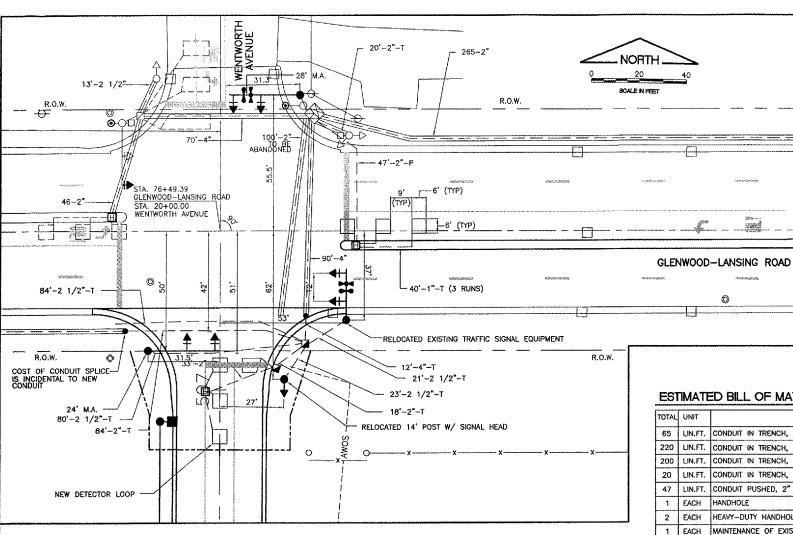
10. CONTRACTOR SHALL ENERGIZE AND UNBAG LIGHTS. IF LEFT TURN LANE BECOMES OPERATIONAL BEFORE ALL PROPOSED ELECTRICAL IMPROVEMENTS ARE COMPLETED. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND COOK

PATH: K:\LansingAp\0329702\draw\st LA034 FILE: trafficdtl2.dwg UPDATE BY: johse SURVEY BOOK # XREF DWG: XREF DWG: DATE: Thu 10/21/04 1:36pm REVISIONS NUMBER BY DATE THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22). VEMENTS TALLATION CIPAL AIRPOR WORK -ROVI **M** M ING MUNIC LANSING, Z Z S **⇔** шœ 25 SA ER! NORTH EMP 3 DESIGN BY: DKP DRAWN BY JRO CHECKED BY: ARM APPROVED BY: DATE: 03/04/05

JOB No:

03297~02

IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21 SHEET 48 OF 50 SHEETS



COUNTY GENERAL NOTES

- THE CONTRACTOR SHALL INFORM THE CCHD ENGINEER AT (312) 603-1730 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.
- THE CONTRACTOR SHALL MARK LOCATIONS OF LOOPS AND CONTACT THE COUNTY ENGINEER AT (312) 603-1730 FOR LOCATION APPROVAL PRIOR TO CUTTING OF THE LOOPS, A MINIMUM OF FIVE (5) WORKING DAYS ADVANCED NOTICE IS
- ALL MAST ARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED 2'-0" FROM END OF MAST ARM UNLESS OTHERWISE NOTED.
- ALL SIGNAL POSTS SHALL BE SET BACK FOUR (4) FEET MINIMUM AND ALL MAST ARM POLES SHALL BE SET BACK SIX (6) FEET MINIMUM FROM THEIR CENTERLINE TO THE BACK OF CURB UNLESS OTHERWISE NOTED. IN NON-CURBED AREAS THE MAST ARM POLE AND SIGNAL POST SHALL BE LOCATED A MINIMUM OF TEN (10) FEET BEHIND THE EDGE OF PAVEMENT OR TWO (2) FEET BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR EXACT LOCATIONS OF THE UTILITIES CALL J.U.L.I.E. TOLL FREE AT
- IT IS CONTRACTORS' RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.
- ALL ELECTRIC CABLE TO HAVE POLYVINYL CHLORIDE JACKET.
- CONDUITS UNDER ROADWAYS AND DRIVEWAYS SHOULD BE INSTALLED IN TRENCH BEFORE PAVEMENT IS PLACED.
- REFER TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." (RED BOOK) ADOPTED JANUARY 1, 2002 FOR SPECIFICATIONS ASSOCIATED WITH THIS IMPROVEMENT.
- VEHICLE LOOP DETECTOR SHALL BE COMPATIBLE WITH THE
- THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE COOK COUNTY HIGHWAY DEPARTMENT AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S TRAFFIC SIGNAL INTENANCE FACILITY AS PER THE TRAFFIC SIGNAL
- ALL PROPOSED TRAFFIC SIGNALS SHALL BE LED.
- THE CONTRACTOR SHALL RETROFIT ALL EXISTING TRAFFIC EQUIPMENT TO REMAIN TO LED.

TRAFFIC SIGNAL LEGEND

	***************************************	***************************************
PROPOSED	EXISTING	
	\bowtie	CONTROLLER
-##-		SERVICE INSTALLATION
←	<	SIGNAL HEAD
4 1−	√ 1	SIGNAL HEAD WITH BACKPLATE
	-0	SIGNAL HEAD, PEDESTRIAN
•	0	SIGNAL POST
	0	MAST ARM ASSEMBLY AND POLE, STEEL
UD		UNIT DUCT
CT		COMMON TRENCH
		HANDHOLE
Œ	H	HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
	month broken	G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
•	0	PEDESTRIAN PUSHBUTTON DETECTOR
	[]	DETECTOR LOOP
P#4	bod	EMERGENCY VEHICLE LIGHT DETECTOR
••	∞	CONFIRMATION BEACON
		CONDUIT SPLICE
8	8	WOOD POLE

ESTIMATED BILL OF MATERIALS - PROPOSED

DESCRIPTION

0

65	LIN.FT,	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL		
220	LIN.FT.	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL		
200	LIN.FT.	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL		
20	LIN.FT.	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL		
47	LIN.FT.	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL		
1	EACH	HANDHOLE		
2	EACH	HEAVY-DUTY HANDHOLE		
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION		
250	LIN.FT.	ELECTRIC CABLE IN CONDUIT, SIGNAL, #14, 3C		
650	LIN.FT.	ELECTRIC CABLE IN CONDUIT, SIGNAL, #14, 5C		
650	LIN.FT.	ELECTRIC CABLE IN CONDUIT, SIGNAL, #14, 7C		
1440	LIN.FT.	ELECTRIC CABLE IN CONDUIT, LEAD-IN, #14 1 PAIR		
250	LIN.FT.	ELECTRIC CABLE IN CONDUIT #20 3/C, TWISTED, SHIELDED		
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24FT		
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28FT		
45	LIN.FT.	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER		
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED		
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED		
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM		
3	EACH	INDUCTIVE LOOP DETECTOR		
350	LIN.FT.	DETECTOR LOOP, TYPE 1		
1	EACH	LIGHT DETECTOR AMPLIFIER		
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION		
1	EACH	RELOCATE EXISTING SIGNAL HEAD		
2	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT		
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY		
1	EACH	MODIFY EXISTING CONTROLLER		
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		
3	EACH	REMOVE EXISITING CONCRETE FOUNDATION		
6	EACH	LED SIGNAL FACE RETROFIT, YELLOW BALL		
6	EACH	LED SIGNAL FACE RETROFIT, RED BALL		
6	EACH	LED SIGNAL FACE RETROFIT, GREEN BALL		
1	EACH	LED SIGNAL FACE RETROFIT, YELLOW ARROW		
1	EACH	LED SIGNAL FACE RETROFIT, GREEN ARROW		
2	EACH	LED SIGNAL FACE RETROFIT, WALK SIGNAL		
2	EACH	LED SIGNAL FACE RETROFIT, DON'T WALK SIGNAL		
1	EACH	RELOCATE EXISTING HANDHOLE		

COOK COUNTY HIGHWAY DEPARTMENT (C.C.H.D.)

SEE SHEET 44 FOR LEGEND

CONSTRUCTION NOTES

R.O.W

(FOR PLACEMENT OF P.C.C. PAVEMENT, MEDIAN AND CURB AND GUTTER)

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- SAWCUT THE FULL DEPTH OF EXISTING PAVEMENT, MEDIAN AND CURB AND GUTTER, AT THE
- TYPE C-4 MEDIAN SHALL BE 10 INCH DEPTH P.C. CONCRETE WITH PAVEMENT FABRIC ON 6 INCH SUBBASE GRANULAR MATERIAL, TYPE B, UNLESS OTHERWISE NOTED.
- CONSTRUCT PAVEMENT FABRIC IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420701 AND PROVIDE 3 1/2 INCHES OF CLEARANCE BETWEEN THE PAVEMENT SURFACE AND THE TOP OF
- DISREGARD ALL DETAILS AND NOTES REGARDING PAVEMENT BLOCKOUTS ON L.D.O.T. STANDARD NO. 420701 AND COMPLY WITH I.D.O.T. STANDARD NO. 420111 AT ALL DRAINAGE/UTILITY STRUCTURE LOCATIONS.
- WHERE THE PROPOSED PAVEMENT OR TYPE C-4 MEDIAN ABUTS THE EXISTING PAVEMENT LONGITUDINALLY, PROVIDE A TIED LONGITUDINAL CONSTRUCTION JOINT IN ACCORDANCE WITH LD.O.T. STANDARD NO. 420001, USING 3/4 INCH DIAMETER TIE BARS AT 24 INCH CENTERS.
- WHERE THE PROPOSED PAVEMENT OR TYPE C-4 MEDIAN ABUTS THE EXISTING PAVEMENT OR TYPE C-4 MEDIAN TRANSVERSELY, PROVIDE A TRANSVERSE JOINT IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 442101, USING 1 1/2 INCH DIAMETER DOWEL BARS AT 12 INCH CENTERS.
- PROVIDE TRANSVERSE SAWED CONTRACTION JOINTS EVERY 20 FEET IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420001, USING 1 1/2 INCH DIAMETER DOWEL BARS AT 12 INCH CENTERS AND ALIGN PROPOSED JOINTS WITH EXISTING JOINTS, SAWED, GROOVE AND JOINT SEAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH I.D.O.T. STANDARD 42 0001 (COST INCIDENTAL TO P.C.C. PAVEMENT).
- IF A PROPOSED TRANSVERSE SAW CUT IS LOCATED LESS THAN 10 FEET FROM AN EXISTING TRANSVERSE JOINT, THEN THE EXISTING PAVEMENT OR TYPE C-4 MEDIAN SHALL BE REMOVED AND REPLACED UP TO THE EXISTING TRANSVERSE JOINT.
- PAVEMENT PATCHES SHALL BE CLASS B, CONSTRUCTED IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 442101 AND SHALL EXTEND THE FULL WIDTH OF THE EXISTING LANE(S). WHERE PATCHING MORE THAN ONE LANE WIDTH, PROVIDE A TIED LONGITUDINAL JOINT (CONSTRUCTION OR SAWED) BETWEEN LANES, IN ACCORDANCE WITH I.D.O.T. STANDARD NO. 420001. C.C.H.D. CONSTRUCTION NOTE NUMBERS 1 THROUGH 8 SHALL APPLY TO THE CONSTRUCTION OF CLASS B PATCHES.
- CURB AND GUTTER SHALL BE CONSTRUCTED AND TIED INTO ABUTTING EXISTING OR PROPOSED P.C.C. PAVEMENT IN ACCORDANCE WITH I.D.O.T. STANDARD NUMBERS 606001 AND 420001, USING 3/4 INCH DIAMETER TIE BARS AT 24 INCH CENTERS.
- CONSTRUCT TYPE C-4 AND TYPE M-7 MEDIANS IN ACCORDANCE WITH THE C.C.H.D. MEDIAN 12.
- PLACEMENT OF CATCH BASINS WITHIN TYPE M-7 MEDIAN SHALL BE IN ACCORDANCE WITH THE 13. C.C.H.D. "POLICY FOR DRAINING TYPE M-7 MEDIAN" STANDARD.
- WHERE A MEDIAN OPENING IS PROVIDED, THE PAVEMENT SHALL BE CROWNED AT THE CENTERLINE USING A ONE PERCENT CROSS SLOPE.
- ALL TRENCHES WITHIN THE COUNTY RIGHT OF WAY SHALL BE BACKFILLED WITH FA-6 SAND IN ACCORDANCE WITH ARTICLE 550.07 OF THE I.D.O.T. STANDARD SPECIFICATIONS. THE BACKFILLING MUST EXTEND UP TO THE PROPOSED SUBBASE IN PAVEMENT SECTIONS, COST SHALL BE INCIDENTAL TO RESPECTIVE PAY ITEM.
- ALL PAVEMENT MARKING WORK ALONG GLENWOOD-LANSING ROAD SHALL BE PER C.C.H.D.
- ALL DISTURBED LAWN AREAS/SHOULDER AREAS WITHIN C.C.H.D. RIGHT-OF-WAY SHALL BE RESTORED WITH 4" TOPSOIL AND SOD PER THE STORM WATER POLLUTION PREVENTION PLAN. PAYMENT SHALL BE UNDER ITEM 905 AND ITEM 908 PER STANDARD SPECIFICATIONS OF CONSTRUCTION OF AIRPORTS.

S MEN ING MUNICIPAL AIRP LANSING, ILLINOIS SITEWORK ' ш $\overline{\Box}$ PL US ō۲ TRICAL QUADRANT 下ひ回 CMC SEC EL MIS RTH AND

DESIGN BY:

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IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21

SHEET 49 OF 50 SHEETS

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XREF DWG: tbcint.dwg

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REVISIONS

BY

THIS BAR IS EQUAL TO 2

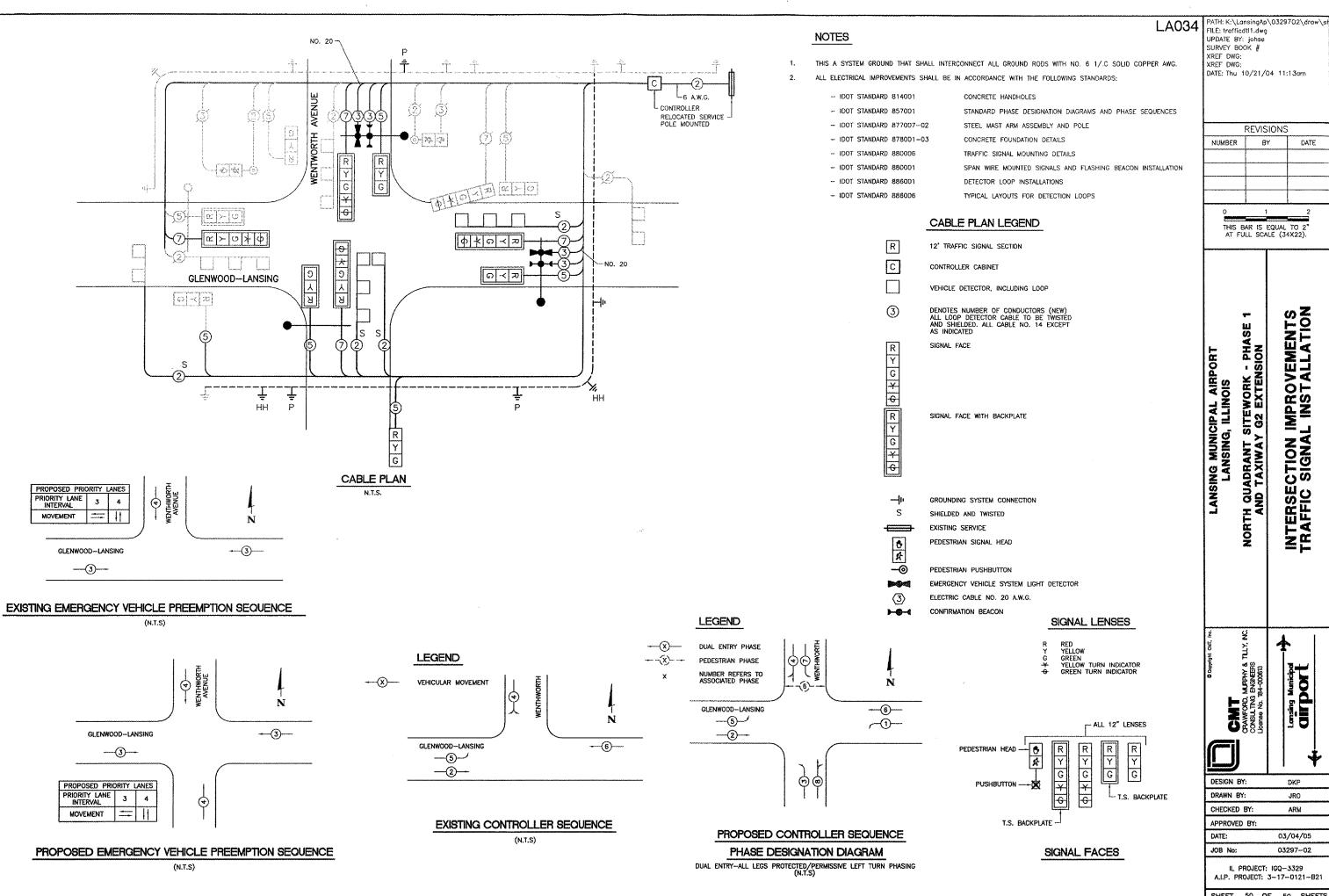
AT FULL SCALE (34X22).

DATE

SURVEY BOOK # DATE: Fri 3/18/05 3:30pm

NUMBER

ELECTRICAL PLAN



PATH: K:\LansingAp\0329702\draw\she FILE: trafficati1.dwg UPDATE BY: johse SURVEY BOOK # DATE: Thu 10/21/04 11:13om

> **REVISIONS** BY DATE

> > STALLATION

E S E N

CTION

THIS BAR IS EQUAL TO 2' AT FULL SCALE (34X22).

INTERSE TRAFFIC DKP JRO ARM 03/04/05 03297-02