ITEM UNIT TOTAL QUANTITIES MORTON AVE MORTON AVE SIGN PANEL - TYPE 1 SQFT 10 10 AVE UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 3,129 1269 1,860 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 200 181 19 UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. FOOT 433 162 271 HANDHOLE, PORTLAND CEMENT EACH 1 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 DELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 1.831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2.6627 1.280 1.347 PAIR TCARLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 1 VALE COMBINATION MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 DIAL MAST ARM, SSEMBLY AND POLE, 60 FT. EACH 1 1 1	SIGN PANEL - TYPE 1 UNDERGROUND CONDUIT, PVC, 2" DIA. UNDERGROUND CONDUIT, PVC, 3" DIA. UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. HANDHOLE, PORTLAND CEMENT CONCRETE	SQ FT FOOT FOOT	QUANTITIES	MORTON	I-74 WB 8 MORTON
UNDERGROUND CONDUT, PVC, 2" DIA. FOOT 3.129 1269 1.860 UNDERGROUND CONDUT, PVC, 3" DIA. FOOT 200 181 19 UNDERGROUND CONDUT, PVC, 3" DIA. FOOT 433 162 271 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 1 1 1 DUBLE RANDHOLE, PORTLAND CEMENT EACH 2 1 1 ELECTRIC CABLE IN CONDUT, SIGNAL NO. 14 5C FOOT 2.566 1,106 1,460 ELECTRIC CABLE IN CONDUT, SIGNAL NO. 14 7C FOOT 2.627 1,280 1,347 ELECTRIC CABLE IN CONDUT, SIGNAL NO. 14 7C FOOT 913 449 464 NO. 20 3C ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL IS FT. EACH 1 1 1 1 STEEL MAST ARM ASSEMBLYAND DOLE, 60 FT. EACH 1 1 1 1 DIAL 46 FT. STELL COMBINATION MAST ARM ASSEMBLYAN	UNDERGROUND CONDUIT, PVC, 2" DIA. UNDERGROUND CONDUIT, PVC, 3" DIA. UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. HANDHOLE, PORTLAND CEMENT CONCRETE	FOOT FOOT	10		AVE
UNDERGROUND CONDUT, PVC, 3" DA. FOOT 200 181 19 UNDERGROUND CONDUT, PVC, 3 //2" DIA. FOOT 433 162 271 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 1.831 1024 807 USE) 1/C NO. 6 CINDUT, SIGNAL NO. 14 7C FOOT 2.566 1.106 1.460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 2.627 1.280 1.347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 2.627 1.280 1.347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 9.13 449 464 NO. 20 3C TRAFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE WITH EACH 1 1 1 DUAL MAST ARMS, 20 FT. AND 36 FT. FOOT 7 3.5 3.5 CONCRETE FOUNDATION MAST ARM ASSEMBLY AND FOOT 7	UNDERGROUND CONDUIT, PVC, 3" DIA. UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. HANDHOLE, PORTLAND CEMENT CONCRETE	FOOT		10	
UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. FOOT 433 162 271 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 13 8 5 HEAVY-DUTY HANDHOLE, PORTLAND CEMENT EACH 1 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 DELECTRIC CABLE IN CONDUIT, SIGNAL NO. 147C FOOT 1.831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 147C FOOT 2.627 1.280 1.347 ELECTRIC CABLE IN CONDUIT, CAMMUNICATION FOOT 2.627 1.280 1.347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. SCH 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND	UNDERGROUND CONDUIT, PVC, 3 1/2" DIA. HANDHOLE, PORTLAND CEMENT CONCRETE		3,129	1269	1,860
HANDHOLE, PORTLAND CEMENT CONCRETE EACH 13 8 5 HEAVY-DUTY HANDHOLE, PORTLAND CEMENT EACH 1 1 DUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 1.831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2,666 1,106 1.460 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 FOOT 2,627 1.280 1.347 PAR ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 1 1 DUAL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 1 DUAL MAST ARMS, 20 FT. AND 36 FT. EACH 1 1 1 1 1 STEEL MAST ARM ASSEMBLY AND POLE 406 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	HANDHOLE, PORTLAND CEMENT CONCRETE	FOOT	200	181	19
HEAVY-DUTY HANDHOLE, PORTLAND CEMENT EACH 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 DUBLE TAND CABLE IN CONDUIT, 600V (XLP-TYPE FOOT 1.831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2.666 1.106 1.460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANZED STEEL 15 FT. EACH 1 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 DUAL MAST ARMS, 20 FT. AND 36 FT. EACH 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 1 POLE 46 FT. COMORETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE E 36-INCH FOOT 7 3.5 3.5 <			433	162	271
DOUBLE HANDHOLE, PORTLAND CEMENT EACH 2 1 1 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE FOOT 1,831 1024 807 USE) 1/C NO, 6 FOOT 1,831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2,566 1,106 1,460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 DUAL MAST ARM ASSEMBLY AND POLE WITH EACH 1 1 1 DULE 40 FT. EACH 1 1 1 1 POLE 40 FT. FOOT 7 3.5 3.5 CONCRETE FOUNDATION MAST ARM ASSEMBLY AND POLE witht		EACH	13	8	5
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE FOOT 1,831 1024 807 USE) 1/C NO. 6 CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2,566 1,106 1,460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 FOOT 2,627 1,280 1,347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 NO. 20 3C TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 1 POLE 46 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT. FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE D FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE B 26-INCH FOOT 21 21 1 DRILL EXISTING HANDHONE EACH	HEAVY-DUTY HANDHOLE, PORTLAND CEMENT	EACH	1		1
USE) 1/C NO. 6 FOOT 1,831 1024 807 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2,666 1,106 1,460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 FOOT 2,627 1,280 1,347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 NO. 20 3C FOOT STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE WITH EACH 1 1 1 1 DUAL MAST ARMS, 20 FT. AND 36 FT. EACH 1 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 1 1 ONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 5 CONCRETE FOUNDATION, TYPE B FOOT 7 3.5 3.5 5 CONCRETE FOUNDATION, TYPE B FOOT 7 3.5 3.5 5 CONCRETE FOUNDATI	DOUBLE HANDHOLE, PORTLAND CEMENT	EACH	2	1	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2.566 1.106 1.460 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 FOOT 2.627 1.280 1.347 PAIR FOOT 913 449 464 NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 5 3 2 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 DUAL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 DUAL MAST ARMS, 20 FT. AND 36 FT. EACH 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 5 CONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 5	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE	FOOT	1,831	1024	807
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 893 784 109 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 FOOT 2,627 1,280 1,347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION FOOT 913 449 464 NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 5 3 2 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH EACH 1 1 1 POLE 46 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 1 CONCRETE FOUNDATION, TYPE A FOOT 15 9 6 1 25 CONCRETE FOUNDATION, TYPE B 48-IX AND 36 FT. FOOT 7 3.5 3.5 0.5 CONCRETE FOUNDATION, TYPE B 86-INCH FOOT 21 21 1 DRIL EXISTING HANDHOLE EACH 1 1 1 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTI		FOOT	2,566	1,106	1.460
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR FOOT 2,627 1,280 1,347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 5 3 2 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 DUAL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARM S20 FT. AND 36 FT. EACH 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. EACH 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. FOOT 15 9 6 CONCRETE FOUNDATION, TYPE D FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE D FOOT 21 21 1 DRILL EXISTING HANDHOLE EACH 1 1 1 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 1 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 1 2 3			,	,	1
PAIR FOOT 2,627 1,280 1,347 ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 5 3 2 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARM SSEMBLY AND POLE WITH EACH 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. EACH 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT. EACH 1 1 CONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE A FOOT 21 21 DRILL EXISTING HANDHOLE EACH 1 1 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET EACH 1 1 1 MOUNTED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET EACH 2 2 3 SIGNAL HEAD, LED, 1-FACE, 5-SECTION,					
NO. 20 3C FOOT 913 449 464 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 5 3 2 STEEL MAST ARM ASSEMBLY AND POLE, 60 FT. EACH 1 1 DUAL MAST ARM ASSEMBLY AND POLE WITH EACH 1 1 DUAL MAST ARM SO FT. AND 36 FT. EACH 1 1 STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 POLE 46 FT. STEEL COMBINATION MAST ARM ASSEMBLY AND EACH 1 1 POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT. FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE A FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE E 36-INCH FOOT 21 21 DRILL EXISTING HANDHOLE EACH 1 1 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM EACH 12 7 5 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET EACH 3 2 1 MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET EACH 2	PAIR	FOOT	2,627	1,280	1,347
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.EACH11STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 36 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11CONCRETE FOUNDATION, TYPE AFOOT73.53.5CONCRETE FOUNDATION, TYPE DFOOT73.53.5CONCRETE FOUNDATION, TYPE B 36-INCHFOOT2121DRILL EXISTING HANDHOLEEACH111SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH1321SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH19127SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH19127SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH19127INDUCTIVE LOOP DETECTOREACH19127INDUCTIVE LOOP DETECTOREACH19127INDUCTIVE LOOP, TYPE IFOOT1.444906538LIGHT DETECTOR AMPLIFIEREACH211IEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH11FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL11 <td>NO. 20 3C</td> <td></td> <td></td> <td></td> <td></td>	NO. 20 3C				
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 36 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.EACH11POLE 46 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11CONCRETE FOUNDATION, TYPE AFOOT73.53.5CONCRETE FOUNDATION, TYPE DFOOT73.53.5CONCRETE FOUNDATION, TYPE B 36-INCHFOOT2121DRILL EXISTING HANDHOLEEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH127SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH223SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH19127INDUCTVE LOOP DETECTOREACH19127INDUCTVE LOOP DETECTOREACH19127INDUCTVE LOOP DETECTOREACH211IEHPORARY TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH211IEHPORARY TRAFFIC SIGNAL INSTALLATIONEACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEM					2
DUAL MAST ARMS, 20 FT. AND 36 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11CONCRETE FOUNDATION, TYPE AFOOT1596CONCRETE FOUNDATION, TYPE AFOOT73.53.5CONCRETE FOUNDATION, TYPE B 42-INCHFOOT2121DRILL EXISTING HANDHOLEEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH127SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH19127NDUCTIVE LOOP DETECTOREACH1596DETECTOR LOOP, TYPE IFOOT1.444906538LIGHT DETECTOR AMPLIFIEREACH211TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL111	· · · · · · · · · · · · · · · · · · ·	EACH	1	1	
POLE 46 FT.EACH11STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11CONCRETE FOUNDATION, TYPE AFOOT1596CONCRETE FOUNDATION, TYPE DFOOT73.53.5CONCRETE FOUNDATION, TYPE B 36-INCHFOOT391425CONCRETE FOUNDATION, TYPE B 42-INCHFOOT21211DRILL EXISTING HANDHOLEEACH111SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH19127NOUNTEDTRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH15966DETECTOR LOOP, TYPE IFOOT1,444906538538LIGHT DETECTOREACH2111TRAFFIC SIGNAL BACKPLATE, SIGNAL EQUIPMENTEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECALEACH11FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECAL111	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 36 FT.	EACH	1		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 48 FT. AND 36 FT.EACH11CONCRETE FOUNDATION, TYPE AFOOT1596CONCRETE FOUNDATION, TYPE DFOOT73.53.5CONCRETE FOUNDATION, TYPE B 36-INCHFOOT391425CONCRETE FOUNDATION, TYPE E 42-INCHFOOT2121DRILL EXISTING HANDHOLEEACH111SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET 	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1		1
CONCRETE FOUNDATION, TYPE AFOOT1596CONCRETE FOUNDATION, TYPE DFOOT73.53.5CONCRETE FOUNDATION, TYPE E 36-INCHFOOT391425CONCRETE FOUNDATION, TYPE E 42-INCHFOOT2121DRILL EXISTING HANDHOLEEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH127SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH221SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH222SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH19127INDUCTIVE LOOP DETECTOR DETECTOR LOOP, TYPE IFOOT1,444906538LIGHT DETECTOR AMPLIFIEREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH211FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL111	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1	1	
CONCRETE FOUNDATION, TYPE D FOOT 7 3.5 3.5 CONCRETE FOUNDATION, TYPE B 42-INCH FOOT 39 14 25 CONCRETE FOUNDATION, TYPE E 42-INCH FOOT 21 21 D DRILL EXISTING HANDHOLE EACH 1 1 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM EACH 12 7 5 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET EACH 5 2 3 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET EACH 3 2 1 MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET EACH 2 2 MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET EACH 2 2 MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC EACH 2 2 NDUCTIVE LOOP DETECTOR EACH 15 9 6 DETECTOR LOOP, TYPE I FOOT 1,444 906 538 LIGHT DETECTOR MOLIPER EACH 2 1 1 TEMPORARY TR		FOOT	15	9	6
CONCRETE FOUNDATION, TYPE E 36-INCHFOOT391425CONCRETE FOUNDATION, TYPE E 42-INCHFOOT21211DRILL EXISTING HANDHOLEEACH111SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH22TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH19127INDUCTIVE LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIALEACH111FULL-ACTUATED CONTROLLER AND TYPE VEACH111				-	
CONCRETE FOUNDATION, TYPE E 42-INCHFOOT2121DRILL EXISTING HANDHOLEEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARMEACH127MOUNTEDSIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKETEACH52MOUNTEDSIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKETEACH321MOUNTEDSIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKETEACH321MOUNTEDSIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKETEACH22MOUNTEDTRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTWE LOOP DETECTOREACH19127INDUCTWE LOOP DETECTOREACH422LIGHT DETECTOR AMPLIFIEREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH211FULL-ACTUATED CONTROLLER AND TYPE IVCABINET, SPECAL111FULL-ACTUATED CONTROLLER AND TYPE VEACH111					
DRILL EXISTING HANDHOLEEACH11SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH22TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH1596DETECTOR LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH11FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIALEACH11FULL-ACTUATED CONTROLLER AND TYPE V FULL-ACTUATED CONTROLLER AND TYPE VEACH11					20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTEDEACH1275SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH222TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH1596DETECTOR LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH11FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIALEACH11FULL-ACTUATED CONTROLLER AND TYPE V FULL-ACTUATED CONTROLLER AND TYPE VEACH11				21	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTEDEACH523SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH321TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH19127INDUCTIVE LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH422LIGHT DETECTOREACH211TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIALEACH11FULL-ACTUATED CONTROLLER AND TYPE VEACH11	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM			7	
MOUNTEDLINKISIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTEDEACH321SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTEDEACH22TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTICEACH19127INDUCTIVE LOOP DETECTOREACH1596DETECTOR LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH422LIGHT DETECTOR AMPLIFIEREACH211TRAFFIC SIGNAL INSTALLATIONEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIALEACH111	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET	FACH	5	2	3
MOUNTED EACH 2 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED EACH 2 2 TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC EACH 19 12 7 INDUCTIVE LOOP DETECTOR EACH 15 9 6 DETECTOR LOOP, TYPE I FOOT 1,444 906 538 LIGHT DETECTOR EACH 4 2 2 LIGHT DETECTOR AMPLIFIER EACH 2 1 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 2 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 1 FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1 1	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET			_	-
MOUNTED Each E TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC EACH 19 12 7 INDUCTIVE LOOP DETECTOR EACH 15 9 6 DETECTOR LOOP, TYPE I FOOT 1,444 906 538 LIGHT DETECTOR EACH 4 2 2 LIGHT DETECTOR AMPLIFIER EACH 2 1 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 1 CABINET, SPECIAL 1 1 1 1 1			-		
INDUCTIVE LOOP DETECTOR EACH 15 9 6 DETECTOR LOOP, TYPE I FOOT 1,444 906 538 LIGHT DETECTOR EACH 4 2 2 LIGHT DETECTOR EACH 2 1 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 1 1 FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1 FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1	MOUNTED TRAFFIC SIGNAL BACKPLATE LOUVERED PLASTIC				7
DETECTOR LOOP, TYPE IFOOT1,444906538LIGHT DETECTOREACH422LIGHT DETECTOR AMPLIFIEREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH11TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE IVEACH11CABINET, SPECIALFULL-ACTUATED CONTROLLER AND TYPE VEACH11	, , ,				
LIGHT DETECTOREACH422LIGHT DETECTOR AMPLIFIEREACH211TEMPORARY TRAFFIC SIGNAL INSTALLATIONEACH211RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENTEACH211TRAFFIC SIGNAL BATTERY BACKUP SYSTEMEACH211FULL-ACTUATED CONTROLLER AND TYPE IVEACH111FULL-ACTUATED CONTROLLER AND TYPE VEACH11		-			-
LIGHT DETECTOR AMPLIFIER EACH 2 1 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 CABINET, SPECIAL FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1					
TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH 2 1 1 RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 CABINET, SPECAL 1 1 1 FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1					
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1 1 TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 CABINET, SPECIAL FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1		-	_		
TRAFFIC SIGNAL BATTERY BACKUP SYSTEM EACH 2 1 1 FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 1 CABINET, SPECIAL FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1					
FULL-ACTUATED CONTROLLER AND TYPE IV EACH 1 1 CABINET, SPECIAL FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1					1
FULL-ACTUATED CONTROLLER AND TYPE V EACH 1 1	FULL-ACTUATED CONTROLLER AND TYPE IV	-			
	FULL-ACTUATED CONTROLLER AND TYPE V	EACH	1	1	

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE I-74 EB AND MORTON AVE						
DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	CHANNELS REQUIRED	
					REQUIRED	
D-2A	6' X 6'	24	37	2	1	
D-2B	6' X 6'	24	25	2	1	
D-2C	6' X 6'	24	13	2	1	
D-6A	6' X 6'	24	14	6	1	
D-6B	6' X 6'	24	3	6	1	
D-7A	6' X 50' QUAD	162	14	7	1	
D-7B	6' X 50' QUAD	162	4	7	1	
D-5A	6' X 50' QUAD	162	20	5	1	
D-5B	6' X 50' QUAD	162	8	5	1	
TO	FAL:	768	138		9	

	SCHEDULE OF SIGNAL HEADS I-74 EB AND MORTON AVE						
QTY.	UNIT	ITEM	LOCATION				
2	EACH	SH, LED, 1F, 3-SEC, BM	9,12				
7	EACH	SH, LED, 1F, 3-SEC, MAM	1,2,3,4,10,11,13				
2	EACH	SH, LED, 1F, 4-SEC, BM	5,7				
2	EACH	SH, LED, 1F, 5-SEC, BM	6,8				
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED	1,2,3,4,5,6,7,8,9,10,11,13				

		OST & MAST ARM AS B AND MORTON AVE		3
REF.	LOCATION	TYPE	LENGTH	FOUNDATION DEPTH
MA-1	NORTHEAST QUADRANT	S C MAA & P DMA	48.0 FT.	14.0 FT
	NORTHEAST QUADRANT	S C MAA & P DMA	36.0 FT.	
MA-2	SOUTHWEST QUADRANT	S MAA & P	60.0 FT.	21.0 FT.
TSP-1	EAST ISLAND	TS POST GALVS 15	15.0 FT.	3.0 FT.
TSP-2	SOUTH MEDIAN	TS POST GALVS 15	15.0 FT.	3.0 FT.
TSP-3	SOUTH MEDIAN	TS POST GALVS 15	15.0 FT.	3.0 FT.

SCHEDULE OF HANDHOLE QUANTITIES I-74 EB AND MORTON AVE				
REF.	LOCATION	TYPE		
DHH-1	SOUTHWEST QUADRANT	DOUBLE		
HH-2	NORTHEAST QUADRANT	STANDARD		
HH-3	EAST ISLAND	STANDARD		
HH-4	SOUTH MEDIAN	STANDARD		
HH-5	SOUTHBOUND ADV. LOOPS	STANDARD		
HH-6	ADJACENT TO I-74 WB	STANDARD		
HH-7	ADJACENT TO 1-74 EB	STANDARD		
HH-8	NORTHWEST QUADRANT	STANDARD		
HH-9	NORTHBOUND ADV. LOOPS	STANDARD		

DETECTOR LOOP AND DETECTOR ASSIGNMENT SCHEDULE I-74 WB AND MORTON AVE						
DETECTOR LOOP	TYPE	DETECTOR LOOP QTY.	DETECTOR LEAD-IN QTY.	ASSIGNED PHASE	CHANNELS REQUIRED	
D-2A	6' X 6'	24	15	2	1	
D-2B	6' X 6'	24	4	2	1	
D-3A	6' X 50' QUAD	162	65	3	1	
D-3B	6' X 50' QUAD	162	14	3	1	
D-6A	6' X 6'	24	15	6	1	
D-6B	6' X 6'	24	5	6	1	
TOTAL:		420	118		6	

QTY.	UNIT	
3	EACH	00
5	EACH	0,
1	EACH	\$
7	EACH	1

REF.	I
MA-1	NORTH
MA-2	SOUTH
	SOUTH
TSP-1	Е
TSP-2	NC

S	CHEDULE I-74 \
REF.	
DHH-1	NORT
HH-2	SOUTH
HH-3	
HH-4	N
HH-5	SOUTH
HH-6	NORTH
HH-7	SOUT

\\Dd68620*-sht:tsl.dgn DRAWN SMS REVISED \\Dd68620*-sht:tsl.dgn STATE OF ILLINOIS USER NAME = IDDT CHECKED - GEB REVISED	FILE NAME =	DESIGNED - LDC	REVISED -	v Kaskaskia		TRAFFIC SIGNAL PLAN		F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
USER NAME = 100T CHECKED - GEB REVISED - DEPARTMENT OF TRANSPORTATION CONTRACT NO.	\D468620-sht-ts1.dgn	DRAWN - SMS	REVISED -	Kaskaskia	STATE OF ILLINOIS			 90-[14R:(14HB-4.14.14HVB)BR) 	TAZEWELL 2433 1658
	USER NAME = IDOT	CHECKED - GEB	REVISED -		DEPARTMENT OF TRANSPORTATION	SUILDOLL OF QUANTITLS			CONTRACT NO. 68620
	PLOT DATE = 7/16/2012	DATE - JULY 20, 2012	REVISED -	V Productional Design Hum 194,004771 Productional Design-subgr Garage 20-50000000		SCALE: 1"=20" SHEET NO. 2 OF 8 SHEETS STA.	TO STA.	ILLINOIS FED. A	

	SCHEDULE OF SIGNAL HEADS I-74 WB AND MORTON AVE	
	ITEM	LOCATION
ł	SH, LED, 1F, 3-SEC, BM	3,7,9
ł	SH, LED, 1F, 3-SEC, MAM	1,2,5,6,8
ł	SH, LED, 1F, 4-SEC, BM	4
ł	TRAFFIC SIGNAL BACKPLATE, LOUVERED	1,2,4,5,6,8,9

SCHEDULE OF POST & MAST ARM ASSEMBLIES I-74 WB AND MORTON AVE							
LOCATION	LENGTH	FOUNDATION DEPTH					
THEAST QUADRANT	S C MAA & P	46.0 FT.	13.0 FT.				
THWEST QUADRANT	S MAA & P DMA	36.0 FT.	12.0 FT.				
THWEST QUADRANT	S MAA & P DMA	20.0 FT.					
EAST ISLAND	TS POST GALVS 15	15.0 FT.	3.0 FT.				
NORTH MEDIAN	TS POST GALVS 15	15.0 FT.	3.0 FT.				

LE OF HANDHOLE QUANTITIES 4 WB AND MORTON AVE		
LOCATION	TYPE	
RTHEAST QUADRANT	DOUBLE	
ITHW/EST OLIADRANT	STANDARD	

JTHWEST QUADRANT	STANDARD
EAST ISLAND	STANDARD
NORTH MEDIAN	STANDARD
HBOUND ADV. LOOPS	HEAVY DUTY
HBOUND ADV. LOOPS	STANDARD
JTHEAST QUADRANT	STANDARD