#### SCOPE

THE PURPOSE OF THIS CONTRACT IS TO HAVE THE CONTRACTOR PROVIDE TROUBLESHOOTING, REPAIR, AND MAINTENANCE OF HIGHWAY LIGHTING AND TRAFFIC SIGNAL SYSTEMS ON THE STATE HIGHWAY SYSTEM IN MONTGOMERY COUNTY IN OHIO DEPARTMENT OF TRANSPORTATION DISTRICT SEVEN. WORK IS PRIMARILY IN MONTGOMERY COUNTY, HOWEVER, SOME SCHEDULED WORK IS LOCATED ELSEWHERE IN DISTRICT SEVEN AS DETAILED IN THESE PLANS. CONTRACTOR WILL BE REQUIRED TO **PROVIDE SERVICES ON ELECTRICAL INSTALLATIONS THROUGHOUT** DISTRICT SEVEN ON AN EMERGENCY BASIS AS NEEDED. ALL WORK SHALL BE SUBJECT TO AUTHORIZATION BY THE ENGINEER ON EITHER AN URGENT RESPONSE (ONE-HOUR) CALL OUT BASIS. SCHEDULED WORK (NEXT-DAY) CALL OUT BASIS, OR PREDETERMINED SCHEDULE OF MAINTENANCE.

IT IS THE INTENT OF THIS CONTRACT THAT FIRST PRIORITY SHALL BE GIVEN TO THOSE TASKS WHICH KEEP ALL OF ODOT'S ELECTRICAL ASSETS IN SERVICEABLE OPERATION. THE CONTRACTOR WILL GIVE THIS WORK HIS CONSTANT ATTENTION AND WILL BE REQUIRED TO FURNISH ALL MATERIALS. EQUIPMENT AND LABOR TO PERFORM AS NEEDED FROM THE FIRST DAY OF THE CONTRACT TO THE LAST. A MINIMUM OF TWO (2), TWO (2) MAN CREWS SHALL BE AVAILABLE IN DISTRICT 7 DURING REGULAR WORKING HOURS (MONDAY FRIDAY, 7:00 AM TO 3:30 PM) OR HOURS AS AGREED UPON AT THE PRE-CONSTRUCTION MEETING.

THIS CONTRACT CONSISTS OF THE INVESTIGATION AND REPAIR OF REPORTED OUTAGES OF INDIVIDUAL SYSTEMS OR CIRCUITS OR DEVICES. THE FURNISHING. TRANSPORTING AND ASSEMBLING OF REPLACEMENT MATERIALS AND DEVICES, THE REPAIR OR REPLACEMENT OF DEVICES, THE REMOVAL OF DEFECTIVE OR DAMAGED MATERIALS AND DEVICES, THE INSTALLATION OF NEW DEVICES, THE RESTORATION AND CLEAN-UP OF THE HIGHWAY, PERFORMING ROUTINE MAINTENANCE AND INSPECTIONS, UTILIZING ODOT'S FIELD MAPS APPLICATION TO MAINTAIN AN ACCURATE INVENTORY, AND TO RECORD SERVICE ACTIVITY, AND TO RECORD INSPECTIONS, AND CLEARING AND GRUBBING. ALL MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE STORED OFF OF THE PROJECT LIMITS. THE CONTRACT SHALL BE PERFORMED IN A MANNER WHICH WILL PROVIDE CONTINUOUS REPAIR SERVICE. ALL WORK WILL BE PERFORMED IN A MANNER WHICH WILL **RESULT IN INSTALLATIONS WHICH ARE IN COMPLIANCE WITH ODOT'S** CURRENT STANDARD CONSTRUCTION DRAWINGS AND CONSTRUCTION MATERIAL SPECIFICATION (CMS) UNLESS EXCEPTION IS APPROVED BY THE ENGINEER. IN ACCORDANCE WITH THE PAY ITEMS LISTED HEREIN. THE WORK LISTED ABOVE MAY OCCUR IN ANY COUNTY WITHIN DISTRICT 7.

CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, AND LABOR TO PERFORM THE WORK. MOBILIZATION SHALL BE INCIDENTAL TO ALL ITEMS OF WORK PERFORMED IN THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS OF MATERIAL USED FOR THE ITEMS OF WORK TO THE ENGINEER PER CMS 108 REQUIREMENTS. FAILURE TO COMPLY WITH ANY OF THE SPECIFICATIONS OF THE CONTRACT SHALL BE REGARDED AS A BREACH OF CONTRACT AND SHALL BE JUST CAUSE FOR CANCELLATION.

CONTRACTOR SHALL PROVIDE ACCURATE DRAWINGS AND DETAILED INFORMATION ON MODIFICATIONS TO EXISTING INSTALLATIONS SO ODOT CAN MAINTAIN DOCUMENTATION OF CURRENT INSTALLATION DETAILS, SUCH AS THE LOCATION OF TRENCH, CABLE AND DEVICES IN THE INSTALLATION. DRAWINGS SHALL INCLUDE MEASUREMENTS TO REFERENCES, SUCH AS EDGE OF PAVEMENT, STOP BAR, POLE, ETC.

CONTRACTOR MUST BE AUTHORIZED BY THE ENGINEER PRIOR TO PERFORMING THE WORK. THIS AUTHORIZATION SHALL CONSTITUTE THE APPROVAL TO DO WORK, WHICH SHALL BE PERFORMED AS APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF DAMAGED ITEMS AND RESTORATION TO A FUNCTIONAL CONDITION SHALL BE INCIDENTAL TO PAY ITEMS TO REPLACE THE DAMAGED ITEM.

CONTRACTOR SHALL PROVIDE A MAINTENANCE FACILITY WITHIN 10 MILES OF THE SERVICE AREA WHICH INCLUDES AN AREA FOR BENCH TESTING AND REPAIR OF SIGNAL CONTROL DEVICES AND STORAGE FOR MATERIALS LISTED IN THESE PLANS. THE REPAIR OF SIGNAL CONTROLLERS AND COORDINATION UNITS SHALL BE PERFORMED BY AN INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) LEVEL THREE CERTIFIED TECHNICIAN. THE CONTRACTOR SHALL PRESENT TO THE ENGINEER, PRIOR TO THE COMMENCEMENT OF WORK, THE IMSA LEVEL THREE CERTIFICATION PAPERS FOR TECHNICIANS WORKING ON THIS PROJECT.

NONE OF THE ITEM QUANTITIES OF THIS CONTRACT ARE GUARANTEED. IF ANY AUTHORIZED QUANTITIES EXCEED PLAN QUANTITY, THEN THE ENGINEER WILL ADJUST THE PLAN QUANTITY VIA CHANGE ORDER PER CMS 109.05. IF NONE OF THE STATED CONTRACT ITEM QUANTITIES ARE NEEDED TO MAINTAIN THE TRAFFIC SIGNAL AND LIGHTING SYSTEM ASSETS THAT ARE A PART OF THIS CONTRACT THEN THE CONTRACTOR WILL NOT BE PAID FOR THAT ITEM.

FAILURE TO COMPLY WITH ANY OF THE ABOVE WILL BE REGARDED AS FAILURE TO EXECUTE AND SHALL BE JUST CAUSE FOR CANCELLATION OF THE AWARD (103.07)

#### **TERM OF THE CONTRACT**

THE TERM OF THIS CONTRACT SHALL BE TEN (10) MONTHS BEGINNING SEPTEMBER 1, 2025, AND ENDING TEN (10) MONTHS LATER ON JUNE 30, 2026, WITH PROVISIONS TO EXTEND AS STATED BELOW.

INTERIM COMPLETION DATES ARE ESTABLISHED AS FOLLOWS.

2/28/2026 - TRAFFIC SIGNAL CABINET AND UPS INSPECTIONS.

02/28/2026 - FOUNDATION REPAIR AND NEW POLES AT TWO (2) LOCATIONS (POLE K2-13 AND K2-14) ON THE SOUTHBOUND INTERSTATE 75 RAMP TO EASTBOUND US 35.

03/31/2026 - RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNITS AS PER PLAN.

03/31/2026 - NEW SIGNAL CABLE, SIGNS, SIGN HANGER ASSEMBLIES, RADAR DETECTION CABLE, AND VEHICULAR SIGNAL HEADS AT US 33 & OH *196 INTERSECTION.* 

05/31/2026 - NEW FOUNDATIONS, EXISTING POLE AND FOUNDATION REMOVAL, NEW POLES, AND PULL BOXES FOR AUGLAIZE COUNTY REST STOP ON US 33.

05/31/2026 - NEW FOUNDATIONS, FOUNDATION REMOVAL, AND REERECT POLES AF 15 DOCATIONS IN CLARK COUNTY.

IN MID-JUNE, DOT WILL PERFORM A PRELIMINARY FINAL OPERATIONAL INSPECTION TO CREATE A PUNCH LIST TO BE COMPLETED PRIOR TO END OF CONTRACT.

#### **EXTENSIONS**

THE OHIO DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO EXTEND THE PERIOD COVERED BY THIS CONTRACT UNDER THE SAME PRICES, TERMS AND CONDITIONS STATED HEREIN, FOR A MAXIMUM OF ONE (1) YEAR BEYOND THE NORMAL EXPIRATION DATE OF THE CONTRACT.

#### INSPECTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WEEKLY UPDATES ON PLANNED WORK SCHEDULES SO INSPECTION SERVICES CAN BE SUPPLIED.

#### TRAINING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAINING OF ITS CREWS SO THAT THEY WILL BE ABLE TO ACCOMPLISH ALL WORK IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS AND SHALL PERFORM A QUALITY OF WORK IN ACCORDANCE WITH GOOD WORKMANSHIP STANDARDS, IN COMPLIANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS.

THE OHIO DEPARTMENT OF TRANSPORTATION WILL NOT PROVIDE TECHNICAL ASSISTANCE.

## **FACILITIES**

CONTRACTOR SHALL PROVIDE A MAINTENANCE FACILITY WITHIN 10 MILES OF THE SERVICE AREA WHICH INCLUDES AN AREA FOR BENCH TESTING AND REPAIR OF SIGNAL CONTROL DEVICES AND STORAGE FOR MATERIALS LISTED IN THESE PLANS.

ITEMS (POLES, FRANGIBLE BASES, ETC.) WHICH DISTRICT 7 WILL PROVIDE TO THE CONTRACTOR WILL BE PICKED UP IN THE DISTRICT 7 COMPLEX IN SIDNEY OHIO. CONTRACTOR TIME AND EQUIPMENT TO PICK UP THESE ITEMS SHALL BE INCLUDED IN UNIT PRICING.

Q  $\sim$ 

 $\succ$ 

Ĺ

<u>/r</u>

U

TS

DO

619 FIELD OFFICE, TYPE B, AS PER PLAN	DETEC
CONTRACTOR IS REQUIRED TO PROVIDE ALL ITEMS DETAILED IN 619.02	IF VEH
EXCEPT THE FOLLOWING ITEMS.	CONT
- PLAN RACK IS NOT NEEDED.	DISTR
	ADVIS
NO SPACE IS NEEDED FOR MOISTURE AND DENSITY CONTROL OF	ACTIC
CONSTRUCTION MATERIALS.	PLACI
	MODI MALF
	THE V
COOPERATION BETWEEN CONTRACTORS	OUT
	ANY C
THIS CONTRACT MAY BE ENTIRELY OR PARTIALLY WITHIN THE WORK LIMITS OF ANOTHER CONSTRUCTION PROJECT.	DATE
THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTOR(S)	MATE
IN ACCORDANCE WITH 105.08 AND ARRANGE A MUTUALLY ACCEPTABLE	
WORK SCHEDULE, SUBJECT TO THE APPROVAL OF THE ENGINEER. ANY PROPOSED CHANGES TO THIS SCHEDULE SHALL MEET THE APPROVAL OF	ALL N
THE ENGINEER. ANY CONFLICTS BETWEEN CONTRACTORS INVOLVING	MATE
WORK SCHEDULES, WORK AREA OR COOPERATION WILL BE RESOLVED BY	THE E PREP
THE ENGINEER. THE CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS	OF TF
ANY TIME A CIRCUIT MUST BE ENERGIZED. NO TWO CONTRACTORS MAY	SHAL
WORK ON ENERGIZED CIRCUITS AT THE SAME TIME.	USE.
COMPENSATION FOR THE ABOVE COOPERATION WILL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.	ALL N
	CONT
	MATE
108.05 VEHICLES AND EQUIPMENT	WHIC
	CONT
THE CONTRACTOR SHALL PROVIDE ALL VEHICLES AND EQUIPMENT NEEDED TO PERFORM THE WORK AS DESCRIBED HEREIN.	REQU INSPE
ALL PROJECT VEHICLES, TEMPORARY TRAFFIC CONTROL DEVICES AND	ALL C
OTHER EQUIPMENT SHALL MEET THE REQUIREMENTS AS DEFINED IN 614.03. ALL VEHICLES WHICH ARE USED IN PERFORMANCE OF ANY WORK	BE RE FIELD
UNDER THE CONTRACT SHALL BE CONSPICUOUSLY IDENTIFIED WITH THE	OF TH
CONTRACTOR'S NAME AT ALL TIMES THAT SUCH VEHICLES ARE ON THE	SEPAI
PROJECT. THIS INCLUDES SELF-PROPELLED VEHICLES LEASED BY THE CONTRACTOR.	OWN
	ALL N
ALL TESTING EQUIPMENT SHALL HAVE CURRENT CALIBRATION	FURN
CERTIFICATES. THE MINIMUM EQUIPMENT THE CONTRACTOR SHALL	WILL REST(
PROVIDE IS AS FOLLOWS. THE CONTRACTOR SHALL ALSO HAVE TEST INSTRUMENTS CAPABLE OF PINPOINTING THE LOCATION OF TROUBLES IN	KEST
UNDERGROUND CIRCUITS SO THAT ONLY A SMALL AMOUNT OF CABLE	
WOULD HAVE TO BE UNCOVERED.	<u>HAZA</u>
1. EQUIPMENT VEHICLES TO TRANSPORT ALL MATERIALS, EQUIPMENT	NO N
AND CREWS FOR BOTH MINIMAL AND MAJOR MAINTENANCE	POLY
2. EQUIPMENT TO SET POLES UP TO 50 FEET IN HEIGHT	CAPA
3. ONE (1) PERSONNEL BUCKET WHICH SHALL BE ABLE TO REACH	FEDE
EQUIPMENT MOUNTED ON 60 FEET HIGH POLE. 4. A BACKHOE	761.
5. AN AUGER TRUCK CAPABLE OF DRILLING HOLES UP TO AND	
INCLUDING 3 FEET IN DIAMETER AND TEN (10) FEET DEEP. 6. A TRENCHER	<u>COM</u>
7. A FLASHING ARROW BOARD CONFORMING TO SS821	THE (
8. A CONCRETE SAW SUITABLE FOR DETECTOR LOOPS.	TELEI
9. ELECTRICAL TEST EQUIPMENT, INCLUDING VOLT-OHM METERS,	SEVE
MEGGERS, EARTH GROUND TESTERS, AUTOMATIC CONFLICT	CREV
MONITOR/MALFUNCTION MANAGEMENT UNIT TESTER AND POWER LINE	ACCE
ANALYZER 10.     TIME DOMAIN REFLECTOMETER (TWISTED PAIR)	MAIN
11. OPTICAL TIME DOMAIN REFLECTOMETER (FIBER OPTIC)	CELL THE C
12. POWER METER (FIBER OPTIC)	CALLS
13. TRAFFIC CONTROLLERS, BY TYPE, FOR TEMPORARY USE AS NEEDED	BE RE
14. CONFLICT MONITORS, BY TYPE, FOR TEMPORARY USE AS NEEDED	
15. MALFUNCTION MANAGEMENT UNITS, BY TYPE, FOR TEMPORARY	
USE AS NEEDED	
16. MODEMS, BY TYPE, FOR TEMPORARY USE AS NEEDED	
<ol> <li>COORDINATORS, BY TYPE, FOR TEMPORARY USE AS NEEDED</li> <li>PORTABLE COMPUTERS WITH THE CAPABILITY TO PROGRAM ALL</li> </ol>	
SIGNAL CONTROL DEVICES	
<i>19. IPHONE OR IPAD DEVICES WITH THE CAPABILITY TO UTILIZE ODOT'S</i>	
FIELD MAPS APP AND OTHER SOFTWARE, AS NEEDED	

## TION MAINTENANCE

ICLE DETECTION BECOMES UNEXPECTEDLY DISABLED, THE ACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER AND CT TRAFFIC ENGINEER. THE DISTRICT TRAFFIC ENGINEER SHALL E THE PROJECT ENGINEER AND CONTRACTOR ON THE APPROPRIATE N TO RECTIFY ANY LOSS OF VEHICLE DETECTION. THIS MAY INCLUDE NG THE TRAFFIC SIGNAL ON MINIMUM OR MAXIMUM RECALL YING THE MINIMUM GREEN TIMES, REMOVING THE UNCTIONING DETECTION FROM SERVICE AND THE REPLACEMENT OF EHICLE DETECTION. THIS IS TO AVOID THE SIGNAL FROM MAXING

HE EFFECTED SIGNAL PHASE AND CREATING UNNECESSARY DELAYS. HANGES SHALL BE RECORDED IN THE FIELD MAPS APP WITH THE AND TIME WHEN THE CHANGE WAS MADE.

#### RIAL (106.01)

ATERIALS USED SHALL BE IN ACCORDANCE WITH CONTRACT RIAL SPECIFICATIONS UNLESS AN ALTERNATE ITEM IS APPROVED BY NGINEER. MATERIALS UTILIZED SHALL BE ON APPROVED LISTS RED BY ODOT'S OFFICE OF MATERIALS MANAGEMENT OR OFFICE AFFIC ENGINEERING. ANY MATERIALS NOT FOUND ON THESE LISTS BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THEIR

ATERIAL UTILIZED SHALL BE STORED WITHIN THE PROJECT LIMITS.

RACTOR MUST MAINTAIN A NINETY (90) DAY SUPPLY OF ALL RIAL UP TO THE LAST NINETY (90) DAYS OF THE CONTRACT, AT H TIME HE SHALL MAINTAIN ENOUGH STOCK TO FINISH THE RACT. THE QUANTITIES WILL DEPEND ON THE AMOUNT OF WORK RED TO MAINTAIN THE SYSTEM. INVENTORY IS SUBJECT TO CTION BY THE ENGINEER.

DOT OWNED MATERIAL IN THE CONTRACTOR'S INVENTORY SHALL NSTALLED TO REPLACE CONTRACTOR OWNED EQUIPMENT IN THE OR RETURNED TO ODOT WITHIN THIRTY (30) DAYS AFTER THE END E CONTRACT. ODOT OWNED MATERIAL SHALL BE STORED ATELY FROM CONTRACTOR MATERIAL AND BE TAGGED AS ODOT ED EQUIPMENT.

ATERIAL IN STOCK AT THE END OF THE CONTRACT, EXCEPT THAT ISHED BY ODOT, WILL BE THE PROPERTY OF THE CONTRACTOR AND NOT BE PURCHASED NOR WILL ANY FEES BE PAID BY THE STATE FOR CKING THESE ITEMS.

#### RDOUS MATERIAL

ATERIALS FURNISHED UNDER THIS CONTRACT SHALL CONTAIN HLORINATED BIPHENYLS (PCB'S). TRANSFORMERS, BALLASTS, AND CITORS SHALL BE MARKED "NO PCB'S" IN ACCORDANCE WITH THE AL ENVIRONMENTAL PROTECTION AGENCY REGULATION 40 CFR

#### **1UNICATION**

ONTRACTOR SHALL FURNISH THE ENGINEER WITH A SINGLE HONE NUMBER THAT IS ANSWERED TWENTY-FOUR HOURS A DAY, DAYS A WEEK BY A PERSON AUTHORIZED TO DISPATCH REPAIR S (ANSWERING MACHINES, VOICE MAIL, ETC. ARE NOT TABLE). IN ADDITION, THE CONTRACTOR SHALL PROVIDE AND TAIN A CELL PHONE FOR THE CONTRACTOR'S CREW FOREMAN. THE HONE SHALL BE WORN DURING REGULAR WORKING HOURS AND ONTRACT NUMBER SHALL BE LISTED WITH THE ENGINEER. ANY RECEIVED BY THE CONTRACTOR FROM OUTSIDE AGENCIES SHALL FERRED TO THE ENGINEER.

ESIGN AGENCY



## 625 FRANGIBLE BASE, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NEW FRANGIBLE BASE OF AN APPROVED DESIGN PER CMS 725.21 EXCEPT AS NOTED BELOW. ALSO INCLUDED SHALL BE THE EXTENSION OF ANY CABLES, CONNECTOR OR SPLICE KITS, TESTING AND INCIDENTALS REQUIRED TO RESTORE THE UNIT TO NORMAL OPERATION. PROPOSED BASES MEETING AASHTO 1975 REQUIREMENTS SHALL REPLACE BASES MEETING 1975 REQUIREMENTS AND PROPOSED BASES MEETING 1985 AASHTO REQUIREMENTS SHALL REPLACE BASES MEETING 1985 REQUIREMENTS. A 17" VERTICAL HEIGHT FOR THE 1985 BASE IS ACCEPTABLE. TRANSFORMER BASES SHALL BE PERMANENTLY MARKED OR LABELED TO IDENTIFY THAT THEY MEET THE 1975 OR 1985 AASHTO REQUIREMENTS.

PAYMENT WILL BE MADE AT CONTRACT UNIT PRICE.

#### 625 FRANGIBLE BASE, AS PER PLAN, INSTALLATION ONLY

THIS ITEM SHALL CONSIST OF INSTALLING A NEW FRANGIBLE BASE THAT IS PROVIDED BY ODOT. ALSO INCLUDED SHALL BE THE EXTENSION OF ANY CABLES, CONNECTOR OR SPLICE KITS, TESTING AND INCIDENTALS REQUIRED TO RESTORE THE UNIT TO NORMAL OPERATION.

PAYMENT WILL BE MADE AT CONTRACT UNIT PRICE.

## 625 REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURES, AS PER PLAN

THIS ITEM CONSIST OF MAINTENANCE AND REPAIR OF A HEAD FRAME ASSEMBLY, A LUMINAIRE RING ASSEMBLY, AND A WINCH ASSEMBLY AS SPECIFIED IN CMS 725.21.

REPAIRS SHOULD BE MADE UTILIZING A CRANE WITH BASKET THAT CAN REACH UP TO 120' TOWERS. IF POWER CABLE REPLACEMENT IS NECESSARY, IT WILL BE PAID FOR UNDER ITS RESPECTIVE PAY ITEM.

PAYMENT WILL BE MADE AT CONTRACT UNIT PRICE PER EACH LOWERING MECHANISM REPAIRED.

#### 625 SECONDARY SURGE PROTECTOR, AS PER PLAN (BY TYPE)

THIS ITEM SHALL CONSIST OF REMOVING AND DISPOSING OF A DEFECTIVE SECONDARY SURGE PROTECTOR, INSTALLING A NEW SECONDARY SURGE PROTECTOR, SQUARE D TYPE J9200-9A, OR EQUIVALENT FOR HIGH MAST (TOWER) FIXTURES. ALSO INCLUDED SHALL BE ANY CONNECTIONS, TESTING, AND INCIDENTALS REQUIRED TO RESTORE UNIT TO NORMAL OPERATION.

PAYMENT WILL BE MADE AT CONTRACT UNIT PRICE.

## 625 "SPECIAL" EMERGENCY RESPONSE-KNOCKDOWN, ROADWAY HAZARD AND/OR LIVE EXPOSED WIRE

THIS ITEM SHALL CONSIST OF THE CONTRACTOR RESPONDING TO AN EMERGENCY CALL-OUT UPON NOTIFICATION BY THE ENGINEER. SOME EXAMPLES OF A HAZARDOUS CONDITION THAT WOULD WARRANT AN EMERGENCY CALL-OUT OF THE CONTRACTOR WOULD BE A KNOCKDOWN THAT REQUIRED THE USE OF HEAVY EQUIPMENT TO REMOVE A POLE, OR AN ACCIDENT THAT WOULD REQUIRE A MAINTENANCE CREW TO REMOVE AND/OR SECURE ELECTRICAL CIRCUITS. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SINGLE TELEPHONE NUMBER OR ANSWERING SERVICE WHERE THEY CAN BE CONTACTED 24 HOURS A DAY, 7 DAYS A WEEK. THE CONTRACTOR'S RESPONSE TIME, FROM THE TIME OF NOTIFICATION UNTIL PERSONNEL ARRIVE AT THE EMERGENCY, SHALL NOT EXCEED TWO (2) HOURS.

WHERE THE CONTRACTOR HAS FAILED TO OR CANNOT RESPOND TO A KNOCKDOWN, ROADWAY HAZARD AND/OR LIVE EXPOSED WIRE, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE.

## 625 LIGHTING, MISC.: PHOTOELECTRIC CELL

THIS ITEM CONSISTS OF FURNISHING AND INSTALLING A NEW PHOTOELECTRIC CELL. ALL PHOTOCELLS, REGARDLESS OF THEIR LOCATION, SHALL BE CHECKED FOR PROPER CYCLING. IF THE PHOTO-CELL IS NOT CYCLING PROPERLY, IT SHALL BE MECHANICALLY ADJUSTED OR REPLACED, AS NECESSARY. PHOTO-CELL SOCKETS WHICH ARE DEFECTIVE SHALL BE REPLACED WITH A NEW ONE.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE.

## 625 LIGHTING, MISC.: FUSED, PULL-APART CONNECTOR KIT

THIS ITEM CONSISTS OF REPLACING ANY DEFECTIVE PULL-APART CONNECTORS. WEATHERPROOF CONNECTORS ARE REQUIRED AS REPLACEMENTS AT ALL FRANGIBLE BASES. THIS INCLUDES ALL NECESSARY WIRING, TESTING, AND OTHER MISCELLANEOUS ITEMS REQUIRED TO RETURN THE SYSTEM TO NORMAL OPERATION.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE.

## 625 LIGHTING, MISC.: CONNECTOR KIT, KTK FUSE

REPLACE BLOWN FUSES LOCATED IN THE PULL-APART CONNECTOR KIT WITH FUSES OF PROPER TYPE, VOLTAGE AND AMP RATING IN THEIR PARTICULAR APPLICATION. THIS INCLUDES ALL NECESSARY WIRING, TESTING, AND OTHER MISCELLANEOUS ITEMS REQUIRED TO RETURN THE SYSTEM TO NORMAL OPERATION. AT EACH POLE, THE CONTRACTOR SHALL ONLY REPLACE A KTK FUSE TWICE IN 14 CALENDAR DAYS. THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL PRIOR TO REPLACING A KTK FUSE AT A POLE MORE THAN TWICE IN THIS TIME FRAME.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT BID PRICE.

## 625 LIGHTING, MISC.: LAMP, (BY TYPE)

THE CONTRACTOR SHALL REPLACE ANY HIGH PRESSURE SODIUM, IF DEFECTIVE OR DAMAGED, FOR THE DURATION OF THE CONTRACT. ONLY NEW LAMPS THAT ARE LISTED ON THE QPL SHALL BE USED AS REPLACEMENTS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR LAMPS, AS PER PLAN (BY TYPE.)

## 625 LIGHTING, MISC.: RELAMP - CONVENTIONAL

HE CONTRACTOR SHALL REPLACE EACH HIGH PRESSURE SODIUM LAMP	
S PART OF THE GROUP RE-LAMPING OF HIGH PRESSURE SODIUM LAMPS.	201
NLY NEW LAMPS THAT ARE LISTED ON THE QPL SHALL BE USED AS	
EPLACEMENTS. REPLACEMENT OF EACH LAMP SHALL OCCUR WHEN	THE
ERFORMING LUMINIARE MAINTENANCE.	POLE
	OF T
AYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH FOR	AND
AMPS, AS PER PLAN (BY TYPE.)	THE
25 LIGHTING, MISC.: REMOVAL AND REERECTION OF LIGHT POLE FOR	
RANGIBLE BASE REPLACEMENT	630
ANGIDLE DASE REPLACEIVIENT	000
HIS ITEM SHALL CONSIST OF DISCONNECTING OF WIRING, REMOVING	THE
N UNDAMAGED POLE (VERTICAL SUPPORT) FROM A DEFECTIVE OR	IND
ONEXISTENT BASE, RE-ERECTING THE UNDAMAGED POLE ON A NEW	BAR
ASE AND RECONNECTION OF WIRING. THE WORK SHALL INCLUDE ALL	NOI
	NOr
ABOR, EQUIPMENT, AND MATERIALS TO REMOVE AND REPLACE THE	
GHT POLE TO THE OPERATION THAT EXISTED PRIOR TO THE WORK.	
AYMENT FOR A NEW FRANGIBLE BASE IS NOT INCLUDED IN THIS ITEM,	632
UT WILL BE PAID FOR UNDER ITS RESPECTIVE PAY ITEM.	PLAN
	PLAI
AYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH.	IN AI
	FOLL
25 LIGHTING, MISC.: REMOVING CABLE IN EXISTING DUCT OR CONDUIT	
25 LIGHTING, MISC.: REMOVING CABLE IN EXISTING DUCT OR CONDULT	1.
HIS ITEM SHALL CONSIST OF THE REMOVAL OF DAMAGED OR	POLY
ETERIORATED CABLE TO BE REPLACED. CABLE AS USED HEREIN IS	SPEC
EFINED AS ONE OR MORE CONDUCTORS WHICH WOULD NORMALLY BE	2.
ULLED OUT OF THE DUCT OR CONDUIT AT THE SAME TIME.	PLAS
DELED OUT OF THE DUCT OR CONDULT AT THE SAME TIME.	3.
	•••
AYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT OF	SERF
ABLE REMOVED AT ONE TIME.	4.
	WITI
	_
	5.
	5. C&N
25 LIGHTING, MISC.: FAULT DIAGNOSIS	C&N
25 LIGHTING, MISC.: FAULT DIAGNOSIS	C&N 6.
25 LIGHTING, MISC.: FAULT DIAGNOSIS HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE	C&N
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE	C&N 6.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF	C&N 6. THE ODO
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF AILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND	C&N 6. THE ODO NUN
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF AILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT	C&N 6. THE ODO NUM MAN
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF AILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND	C&N 6. THE ODO NUM MAN HEAI
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF AILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT	C&N 6. THE ODO NUM MAN
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING	C&N 6. THE ODO NUM MAN HEAI
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION	C&N 6. THE ODO NUM MAN HEAI PURI 7.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION TEMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE	C&N 6. THE ODO NUN MAN HEAN PUR 7. INCH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED	C&N 6. THE ODO NUM MAN HEAL PURI 7. INCH 8.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION TEMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE	C&N 6. THE ODO NUN MAN HEAL PURI 7. INCH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED	C&N 6. THE ODO NUM MAN HEAL PURI 7. INCH 8.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION TEMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE SET THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDE WHE REPL MAY
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE SET THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9. ENTH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION TEMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS.	C&N 6. THE ODO NUM MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9. ENTH FILL THE
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER.	C&N 6. THE ODO NUN MAN HEAI PURI 7. INCH 8. PEDI KHE REPL MAY 9. ENTH FILL THE BETV
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION TEMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS.	C&N 6. THE ODO NUM MAN HEAL PUR 7. INCH 8. PEDE WHE REPL MAY 9. ENTH FILL THE BETV 10.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS.	C&N 6. THE ODO NUM MAN HEAL PUR 7. INCH 8. PEDE REPL MAY 9. ENTH FILL THE
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. AS LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING	C&N 6. THE ODO NUN MAN HEAI PUR 7. INCH 8. PEDI WHE REPL MAY 9. ENTH FILL THE BETV 10.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS.	C&N 6. THE ODO NUN MAN HEAI PUR 7. INCH 8. PEDI WHE REPL MAY 9. ENTH FILL THE BETV 10.
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. <b>25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION</b> HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR.	C&N 6. THE ODO NUM MAN HEAL PUR 7. INCH 8. PEDE WHE REPL MAY 9. ENTH FILL THE BETV 10. TETH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. AS LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 10. THE BETN 10. TETH PAYN WITH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. <b>25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION</b> HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR.	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND ORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. AS LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 10. THE BETN 10. TETH PAYN WITH
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF NILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. 25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF MILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. 25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH ED PAINT OR FLAGS AND WILL BE RELIED UPON BY OTHERS TO BE AN	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF NILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DORRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION THE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. 25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF MILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. 25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH ED PAINT OR FLAGS AND WILL BE RELIED UPON BY OTHERS TO BE AN	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF MILURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. 25 LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL LOCATE THE KISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH ED PAINT OR FLAGS AND WILL BE RELIED UPON BY OTHERS TO BE AN	C&N 6. THE ODO NUM MAN HEAN PUR 7. INCH 8. PEDN 8. PEDN 8. PEDN 8. PEDN 8. PEDN 7. INCH 7. INCH 8. PEDN 7. INCH 7. INC
HIS ITEM SHALL CONSIST OF INVESTIGATING, AT THE REQUEST OF THE NGINEER, A CIRCUIT OF HIGHWAY LIGHTING TO DETERMINE CAUSE OF ALURE OR MALFUNCTIONING AND TO REPORT FAULT AND RECOMMEND DRECTIVE ACTION TO THE ENGINEER. VISUAL INSPECTION, FAULT NDERS, MEGGERS, ETC., SHALL BE USED TO LOCATE FAULTS TO AN CCURACY THAT THE ENGINEER CAN MAKE SOUND DECISIONS ON GIVING HE CONTRACTOR APPROVAL TO PROCEED WITH CORRECTIVE ACTION EMS. IF MORE THAN ONE (1) FAULT EXISTS BETWEEN TWO (2) CABLE PLICE POINTS, APPROVAL TO REPEAT THIS ITEM MUST BE OBTAINED ROM THE ENGINEER. AYMENT WILL BE MADE PER MAN-HOUR OF FAULT DIAGNOSIS TIME EQUIRED AT THE CONTRACT UNIT BID PRICE FOR ONLY ONE (1) CIRCUIT AULT DETERMINATION OR COMPONENT FAULT PER REQUEST. HOURLY NITS MAY BE BILLED IN PARTIAL HOUR OR FULL HOUR AMOUNTS. <b>ES LIGHTING, MISC.: MARKING EXISTING LIGHTING CABLE LOCATION</b> HIS ITEM SHALL CONSIST OF LOCATING AND MARKING EXISTING NDERGROUND LIGHTING CABLE BY THE CONTRACTOR. IT THE REQUEST OF THE ENGINEER, THE CONTRACTOR HISTING UNDERGROUND CABLE AND PLACE MARKING ON THE GROUND IRECTLY ABOVE THE CABLE. THE MARKINGS SHOULD BE MADE WITH ED PAINT OR FLAGS AND WILL BE RELIED UPON BY OTHERS TO BE AN CCURATE INDICATION OF THE LOCATION OF LIGHTING CABLE.	C&N 6. THE ODC NUM MAN HEAN PUR 7. INCH 8. PEDI WHE REPL WHE REPL WHE REPL WHE REPL WHE REPL WHE REPL WHE REPL WHE REPL MAY 9. ENTH FILL THE BETV 10. TETH PAYN WITH HEAN

## **TRAFFIC SIGNAL SPECIAL SPECIFICATIONS**

## **CLEARING AND GRUBBING**

RE ARE AREAS AROUND CONTROLLER CABINETS, PEDESTALS AND ES THAT WILL NEED CLEARING AND GRUBBING DURING THE COURSE THE PROJECT. ALL PROVISIONS AS SET FORTH IN THE CONSTRUCTION O MATERIALS SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN I LUMP SUM BID PRICE FOR ITEM 201 CLEARING AND GRUBBING.

## SIGN HANGER ASSEMBLY, SPAN WIRE, AS PER PLAN

E ITEM INCLUDES ALL NECESSARY HARDWARE TO ATTACH ONE DIVIDUAL SIGN.SIGN SHOULD BE WEIGHTED WITH A 26 INCH LONG 3# R MOUNTED HORIZONTALLY WHERE BOTTOM BRACKET HOLES ARE DRMALLY LOCATED. DO NOT ATTACH SIGN TO BOTTOM TETHER.

# VEHICULAR SIGNAL HEAD, LED, POLYCARBONATE BY TYPE, AS PER

ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732, THE LOWING SHALL APPLY:

SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK YCARBONATE PLASTIC WITH CUTAWAY VISORS AND MEET ITE CIFICATIONS.

PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED STIC MATERIAL RATHER THAN PAINTING.

THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH RATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.

ALL SIGNAL HEADS SHALL BE RIGIDLY MOUNTED TO THE MAST ARM TH THE YELLOW MODULE LOCATED IN FRONT OF THE MAST ARM.

ALUMINUM BACKPLATES SHALL BE IN ACCORDANCE WITH THE MS AND INCLUDE A FLUORESCENT YELLOW REFLECTIVE BORDER.

THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET REQUIREMENTS OF C&MS 732.04. THE CONTRACTOR SHALL PROVIDE OT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL MBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF NUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL AD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY RPOSES.

SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.11 HES.

SIGNAL HEADS SHALL INCLUDE A CUTAWAY TYPE VISORS WHEN ESTRIAN SIGNALS ARE NOT PRESENT. TUNNEL VISORS ARE USED EN PEDESTRIANTSIGNALS ARE PRESENT. IN CASES WHERE SIGNALS ARE LACING EXISTING HEADS, MATCHING THE PREVIOUS HEAD'S STYLE Y OVERRULE OTHER GUIDANCE.

APPLY A BEAD OF SILICONE TO THE SIGNAL HEAD, WASHER, AND RANCE ADAPTER SERRATIONS TO PREVENT WATER INTRUSION. ALSO THE SPACE BETWEEN CONCENTRIC SERRATION RINGS ON THE TOP OF SIGNAL HEAD TO COMPLETELY EXCLUDE WATER FROM THE SPACE WEEN THE CONCENTRIC RINGS.

BALANCE ADJUSTERS SHALL NOT BE USED ON ONE-WAY HEADS OR HERED HEADS.

MENT FOR ITEM 632 "VEHICULAR SIGNAL HEAD, LED, BLACK, (BY TYPE) TH BACKPLATE, AS PER PLAN" SHALL BE MADE FOR COMPLETE SIGNAL AD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, TERIALS AND NEW ATTACHMENT HARDWARE.

DESIGN AGENCY



DESIGNER							
CJP							
REVIEWER							
XXX MI	M-DD-Y						
PROJECT ID	)						
	, 504						

## 632 VEHICULAR SIGNAL HEAD, LED, (BY TYPE), ALUMINUM, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732, THE FOLLOWING SHALL APPLY:

1. ALL UPPER SIGNAL SUPPORT HARDWARE AND PIPING UP TO AND INCLUDING THE WIRE INLET FITTING SHALL BE FERROUS METAL FOR SIGNAL DISPLAYS OF TWO OR MORE SECTIONS.

2. THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.

3. THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

4. SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.

5. SIGNAL HEADS SHALL INCLUDE A CUTAWAY TYPE VISORS UNLESS OTHERWISE SPECIFIED IN THE PLANS. VISORS AND HEADS SHALL BE PAINTED YELLOW.

APPLY A BEAD OF SILICONE TO THE SIGNAL HEAD, WASHER, AND ENTRANCE ADAPTER SERRATIONS TO PREVENT WATER INTRUSION. ALSO FILL THE SPACE BETWEEN CONCENTRIC SERRATION RINGS ON THE TOP OF THE SIGNAL HEAD TO COMPLETELY EXCLUDE WATER FROM THE SPACE BETWEEN THE CONCENTRIC RINGS.

7. BALANCE ADJUSTERS SHALL NOT BE USED ON ONE-WAY HEADS OR TETHERED HEADS

PAYMENT FOR ITEM 632 "VEHICULAR SIGNAL HEAD, LED, (BY TYPE), AS PER PLAN "SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

## 632 RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, BY LENS TYPE, AS PER PLAN

THE CONTRACTOR SHALL REPLACE AN EXISTING VEHICLE SIGNAL HEAD LIGHT EMITTING DIODE (LED) LAMP UNIT WITH THE APPROPRIATE LED LAMP UNIT OR REPLACE THE EXISTING PEDESTRIAN SIGNAL HEAD LAMP AND LENS WITH LED MODULE. LED SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF CMS 732.04. ALL LAMP UNIT REPLACEMENTS SHALL BE COMPLETED BY 3/31/2026. SEE TABLE ON THIS SHEET FOR LOCATIONS. QUANTITIES FROM THE TABLE HAVE BEEN CARRIED TO THE GENERAL SUMMARY AND ARE INCLUDED IN THE TOTAL QUANTITY.

## 632 PEDESTRIAN SIGNAL, (LED), TYPE D2, (COUNTDOWN), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632 AND 732 THE FOLLOWING SHALL APPLY:

1. POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS. PLASTIC MATERIAL RATHER THAN PAINTING. 4. TYPE.

PURPOSES

5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL USED. 6. THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE ODOT, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY

PAYMENT FOR ITEM 632 "PEDESTRIAN SIGNAL HEAD, LED, COUNTDOWN, (BY TYPE), AS PER PLAN"SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

No	County	Route					Crossing Route	Red Ball	Yellow Ball	Green Ball	Red Arrow	Yellow Arrow	Green Arrow
1	MOT	SR	4		&	CR	Farmersville-West Carrollton Road (CR 50)	8	8	8			
4	MOT	US	35		&	CR	Union Road (CR 125)	8	8	8		2	2
5	MOT	US	35		&	CR	Olive Road	8	8	8		2	2
7	MOT	US	35		&	CR	Infirmary Road (CR 149)	9	9	9	4	4	4
9	MOT	US	40		&	CR	Frederick Pike (CR 165)	9	9	9			
27	MOT	IR	70	WB Ramp	&	CR	Hoke Road (CR 27)	6	6	6			
42	MOT	IR	75	SB Ramp	&	SR	741				5	5	5
58	MOT	IR	675	SB Ramp	&	CR	Yankee-Leona Lane (CR 175)	8	8	8			2
59	MOT	IR	675	NB Ramp	&	SR	725	7	7	7			
61	MOT	IR	675	SB Ramp	&	SR	48	7	7	7			
65	MOT	SR	725		&	PD	Mall Park Drive (Mall Entrance #4)	8	8	8			
67	MOT	SR	725		&	TR	Kingsridge Drive (TR 2660)	8	8	8		4	4
68	MOT	SR	725		&	PD	South Towne Center Drive	8	8	8	1	2	2
69	MOT	SR	725		&	TR	Southwind/Southview Hospital	9	9	9		2	2
72	MOT	SR	725		&	TR	Lyons Road (TR 150)	8	8	8	1	4	4
74	MOT	SR	725		&	CR	Paragon Road (CR 145)	8	8	8	1	4	4
75	MOT	SR	725		&	TR	North Congress Park Drive (TR 3369)	8	8	8	1	2	2
76	MOT	SR	725		&	TR	Miller Farm Lane (TR 141)	8	8	8		2	2
81	MOT	SR	741		&	TR	Miami Village Drive (TR 3624)	8	8	8		2	2
82	MOT	SR	741		&	TR	Spring Valley Pike (TR 86)	8	8	8		2	2
83	MOT	SR	741		&	TR	Ferndown Drive (TR 3539)	8	8	8		1	1
84	MOT	SR	741		&	TR	Newmark Drive	8	8	8		1	1
86	MOT	SR	741		&	TR	Kingsridge Drive (TR 2660)	8	8	8		4	4
89	MOT	SR	741		&	TR	Carnation Road (TR 2519)	8	8	8			
1							TOTAL	183	183	183	13	43	45

Q

-TSG/LG

DO

- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF 2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED
- *3. PIPE. SPACERS AND FITTINGS CONSTRUCTED OF POLYCARBONATE* PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN

#### **632 PEDESTRIAN PUSHBUTTONS, AS PER PLAN**

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING PUSHBUTTON, IF PRESENT, AND INSTALLING AN ADA-COMPLIANT PEDESTRIAN PUSHBUTTON. ALL CONNECTIONS ARE INCIDENTAL TO THIS ITEM. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE.

#### 632 VEHICULAR SIGNAL HEAD BACKPLATE, BY TYPE, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING TRAFFIC SIGNAL HEAD BACKPLATE AND INSTALLING A NEW ALUMINUM BACKPLATE. THE BACKPLATES SHALL MEET THE REQUIREMENTS OF CMS 632 AND 732. ALUMINUM BACKPLATES SHALL HAVE A FLUORESCENT YELLOW REFLECTIVE BORDER. PAYMENT FOR ITEM 632 "VEHICULAR SIGNAL HEAD BACKPLATE, BY TYPE, AS PER PLAN" SHALL BE MADE FOR COMPLETE BACKPLATE REMOVAL, FURNISHED, AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE.

#### **632 ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN, YELLOW**

IN ADDITION TO THE REQUIREMENTS OF CMS 632.09 AND 732.06, ITEM SHALL INCLUDE THE FOLLOWING.

1. BEFORE ORDERING, FURNISHING AND INSTALLING ANY ACCESSIBLE PUSHBUTTONS, CONTRACTOR SHALL COMPLETE A SITE SURVEY OF THE CONTROLLER WIRING TO DETERMINE IF INSTALLATION IS FEASIBLE.

2. PROVIDE AND RETROFIT AN ACCESSIBLE PEDESTRIAN PUSHBUTTON WITH SIGN. FURNISH MATERIALS ACCORDING TO ODOT'S QUALIFIED PRODUCTS LIST AND/OR TRAFFIC APPROVED PRODUCTS LIST.

3. REMOVE EXISTING PEDESTRIAN PUSHBUTTONS.

4. IF INSUFFICIENT CONDUCTORS EXIST, PROVIDE ALL REQUIRED CABLING. CABLE WILL BE PAID PER FOOT PER THE SIGNAL CABLE BID ITEM BY TYPE.

5. PROVIDE AND INSTALL INTERFACE DEVICES AND PANELS IN THE CONTROLLER CABINET. PROVIDE. RETROFIT AND PROGRAM CONTROL UNITS, INTERCONNECT BOARDS, INTERNAL CABINET WIRING TO LOAD SWITCHES AND INTERNAL CABINET WORONG TO PEDESTRIAN CALL INPUTS.

6. PROGRAM THE PUSHBUTTONS TO ADJUST TONE AND VOLUME AUTOMATICALLY BASED UPON THE AMBIENT NOISE LEVEL. PROGRAMMING SHALL INCLUDE CUSTOMIZED STREET NAME MESSAGE WHEN REQUESTED.

7. TEST THE ACCESSIBLE PUSHBUTTON IN THE PRESENCE OF THE ENGINEER AFTER INSTALLATION IS COMPLETE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ACCESSIBLE PEDESTRIAN PUSHBUTTON. ITEM INCLUDES ALL INCIDENTALS, INTERFACE DEVICES, WIRING PANELS, PEDESTRIAN PUSH BUTTON SIGNS, AND PROGRAMMING NECESSARY TO PROVIE A COMPLETE, FULLY FUNCTIONINNG ACCESSIBLE PEDESTRIAN PUSH BUTTON SYSTEM.

#### **632 DETECTOR LOOP, AS PER PLAN**

THIS ITEM SHALL CONSIST OF SAWING SLOTS IN THE PAVEMENT FOR THE INSTALLATION OF THE LOOP WIRE AS PER 632.11 AND TC-82.10, IF NECESSARY, FURNISHING AND REPLACING LOOP DETECTOR WIRE, TYPE E. THIS ITEM INCLUDES THE NECESSARY LABOR AND MISCELLANEOUS HARDWARE, AND EQUIPMENT REQUIRED TO PROVIDE FOR THE LOOP DETECTOR TIE-IN AND OPERATION. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE.

#### **632 MESSENGER WIRE, BY TYPE**

THIS ITEM SHALL CONSIST OF FURNISHING AND REPLACING THE MESSENGER WIRE IN KIND. ALL NECESSARY CLAMPS, THIMBLES, BULL RINGS AND SIGNAL CABLES ARE INCIDENTAL TO THIS ITEM. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT.

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING SIGNAL CABLE AND FURNISHING AND REPLACING THE SIGNAL CABLE IN KIND. CONNECTORS, SPLICES, TERMINALS, REMOVAL AND REPLACEMENT OF LASHING ROD, AND SIMILAR ITEMS SHALL BE INCIDENTAL TO THIS ITEM. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT.

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING POWER CABLE AND FURNISHING AND REPLACING THE POWER CABLE BY TYPE AS NECESSARY. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER FOOT.

THIS ITEM SHALL CONSIST OF REMOVING AN EXISTING POWER SERVICE AND FURNISHING AND INSTALLING A NEW POWER SERVICE SO THAT THE CIRCUIT IS RETURNED TO NORMAL OPERATION. TWO (2) DISCONNECT SWITCHES MAY BE REQUIRED BY THE UTILITY COMPANY. THE COST OF THE SECOND DISCONNECT WILL BE INCLUDED IN THIS ITEM. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE.

# 632 CONDUIT RISER, BY SIZE, AS PER PLAN

# **632 TETHER WIRE WITH ACCESSORIES, AS PER PLAN**

THIS ITEM SHALL CONSIST OF REMOVING AND REPLACING A DAMAGED TETHER WIRE.

THE TETHER WIRE SHALL MEET THE REQUIREMENTS OF C&MS 632.225 AND 732.18

INSTALLATION OF THE TETHER WIRE SHALL BE IN ACCORDANCE STANDARD CONSTRUCTION DRAWING TC-85.21 AND TC-85.22.

PAYMENT FOR ITEM 632 "TETHER WIRE WITH ACCESSORIES, AS PER PLAN"WILL BE MEASURED BY THE NUMBER OF FEET IN PLACE, AND WILL INCLUDE ALL NECESSARY ACCESSORIES SUCH AS ANCHOR SHACKLES, S-HOOKS YIELDING ELEMENT, THIMBLES, TURNBUCKLES, GUY GRIPS, WIRE ROPE CLIPS, LOCK WIRE, SAFETY TIE WIRE, LEAD SHEET, AND SIGNAL HEAD TETHER ANCHORS AND EXTENDERS. MEASUREMENT WILL BE FROM POLE CENTER TO POLE CENTER, OR POLE CENTER TO BULLRING, OR BULLRING TO BULLRING. NO MEASUREMENT WILL BE MADE FOR ANY LENGTH OF TETHER WIRE FOR ATTACHMENT TO POLES OR BULLRINGS BY BENDING. LAPPING OR WRAPPING.

# 632 SIGNAL CABLE, BY TYPE, AS PER PLAN

A QUANTITY OF 1500 FEET HAS BEEN INCLUDED IN THE QUANTITY FOR THE REPLACEMENT OF THE SIGNAL CABLE AT THE INTERSECTION OF MERCER COUNTY US 33 & OH 196.

# 632 LOOP DETECTOR LEAD-IN CABLE, BY TYPE, BY SIZE, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND REPLACING AN UNDERGROUND LOOP DETECTOR LEAD-IN CABLE. REMOVING THE EXISTING LEAD-IN CABLE FROM THE CONDUIT AND THE INSTALLATION OF SPLICES SHALL BE INCIDENTAL TO THIS ITEM. PAYMENT SHALL BE MADE AT THE CONTRACT BID PRICE PER FOOT.

# 632 POWER CABLE, BY TYPE, AS PER PLAN

# 632 POWER SERVICE, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE REMOVAL, IF NECESSARY, AND FURNISHING AND INSTALLING A CONDUIT RISER PER 632.20. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE.

DESIGN AGENCY



DESIGNER							
CJP							
REVIEWER							
XXX MI	M-DD-Y						
PROJECT ID	)						
121504							
	704						
SHEET	TOTAL						

9
$\mathbf{V}$
$\geq$
G
1
IJ
-TSG
7
Š

USER: coollic
12 43 35 PM
TIME: 1
DATE: 6/18/2025
4x22 (in.)
PAPERSIZE: 3
Sheet
Щ.

		SHEET NUM.												
	ugb.													
	504_GG001													
	\Sheets\121													
	\Roadway													
	gineering													
	llic 1504\400-Er													
	DOV-IJOV/CO/CO-FIZO MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/18/2025 TIME: 12:43:35 PM USER: cpollic pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 07\_D07\121504\00-Engineering\Roadway\Sheets\121504_GG001.dgn													
	.43:35 PM cts\Distric													
	TIME: 12: tive Proje													
	18/2025 <sup>-</sup> ents\01 Act													
U	D DATE: 6/ 2\Docume													
	- <b>Г Т ∠</b> :x22 (in.) odot-pw-0													
	RSIZE: 34 y.com:ohid	 												
	eet PAPEI													
	MODEL: Sh ow:\\ohiodot													

	PART.		ITEM	GRAND		DECONDITION	SEE SHEET	
	01/SAF/21	- ITEM	EXT	TOTAL	UNIT	DESCRIPTION	NO.	
						ROADWAY		
	LS	201 611	11001 00400	LS 20	FT	CLEARING AND GRUBBING, AS PER PLAN 4" CONDUIT, TYPE E, 725.051	9,13	
	20		00400	20				
	20	625	00480	$\sum_{20}$	EACH	LIGHTING CONNECTION, UNFUSED PERMANENT	-	
	350	625	10500	20	EACH	LIGHT POLE, MISC.: STRUCTURE MAINTENANCE		
	15	625	10503		EACH	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, CONVENTIONAL	E 10 2	
		625 625	10503 10505	$\begin{pmatrix} 1 \\ 10 \end{pmatrix}$	EACH EACH	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN, LOW MAST ERECTING REUSABLE DOWNED LIGHT POLE, AS PER PLAN		
		025	10303	$\begin{pmatrix} 10 \end{pmatrix}$	LACH	ERECTING REUSABLE DOWNED LIGHT FOLL, AS FER FLAN		
	~84	625	13500	~84~~	EACH	LIGHT TOWER, MISC.: STRUCTURE MAINTENANCE	<u> </u>	
		625 625	13500 13500		EACH EACH	LIGHT TOWER, MISC.: PLUG LIGHT TOWER, MISC.: JUNCTION BOX		
		625	13500		EACH	LIGHT TOWER, MISC.: PLUG ON TOWER RING, AS PER PLAN		
	2	625	14401		EACH	LIGHT POLE FOUNDATION REPAIR, AS PER PLAN		
		625	14500		EACH	LIGHT POLE FOUNDATION		
	Line Internet	625	15100	(Lind	EACH	LIGHT TOWER FOUNDATION, 36" X 20' DEEP	$\sim$	3)
		625	18600	m	EACH	BRACKET ARM, MISC.: CONVENTIONAL LIGHT POLE		(1/3)
		625 625	18600 18600	$\begin{bmatrix} 1\\ 10 \end{bmatrix}$	EACH EACH	BRACKET ARM, MISC.: LOW MAST LIGHT POLE BRACKET ARM, MISC.: INSTALLATION OF REUSABLE BRACKET ARM		
				$\sim$				ARY
	2,000	625	23201	2,000	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE, AS PER PLAN		ŴΨ
	300 1,500	625 625	23301 23401	<pre>300 {     1,500 }</pre>	FT FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE, AS PER PLAN NO. 10 AWG POLE AND BRACKET CABLE, AS PER PLAN		$\geq$
	200	625	24101	200	FT	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES, AS PER PLAN		SU
	200	625	24301	200	FT	1-1/2" DUCT CABLE WITH TWO NO. 2 AWG 2400 VOLT CABLES, AS PER PLAN		AL
	200 50	625 625	24321 25400	200 50	FT FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES, AS PER PLAN CONDUIT, 2", 725.04		NER
	300	625	25408	300	FT	CONDUIT, 2", 725.051		GEN
	150	625	25900	150	FT	CONDUIT, JACKED OR DRILLED, 3"	$\sim$	U U
	225	625	26253	225	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN, REMOVAL AND FURNISHING		
	2	625	26263	2 3	EACH	LUMINAIRE, HIGH MAST, SOLID STATE (LED), AS PER PLAN, REMOVAL AND FURNISHING		
_	$\begin{pmatrix} 2 \\ 2 \end{pmatrix}$	625 625	26273 27503	$\begin{pmatrix} 2 \\ 2 \end{pmatrix}$	EACH EACH	LUMINAIRE, LOW MAST, SOLID STATE (LED), AS PER PLAN, REMOVAL AND FURNISHING LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, REMOVAL AND FURNISHING		-
		625	27600	Curry Curry	EACH	LUMINAIRE, MISC.: LUMINAIRE MAINTENANCE		
	10	625	27600		EACH	LUMINAIRE, MISC.:, LED DRIVER, CONVENTIONAL, 240V		
	10	625	27600		EACH	LUMINAIRE, MISC.:, LED DRIVER, CONVENTIONAL, 480v		
	5	625	27600	5	EACH	LUMINAIRE, MISC.: LED DRIVER, LOW MAST, 480V		
	5	625	27600		EACH	LUMINAIRE, MISC.:, LED DRIVER, TOWER, 480V		
	300	625 625	27600 29003	300	EACH FT	LUMINAIRE, MISC.:, LED DRIVER, UNDERPASS, 480V TRENCH, 24" DEEP, AS PER PLAN		
	$\sim$			m			tu	
		625 625	30700 30706		EACH EACH	PULL BOX, 725.08, 18" PULL BOX, 725.08, 24"		
	15	625	32001		EACH	GROUND ROD, AS PER PLAN		
		625	33100	- 1	EACH	CIRCUIT BREAKER, TOWER LIGHTING	12	
_		625	34001		EACH	POWER SERVICE, AS PER PLAN, POLE MOUNTED		
		625	34001		EACH	POWER SERVICE, AS PER PLAN, GROUND MOUNTED	12	
		625	34451	24	EACH	CONTROL CENTER CABINET, COMPLETE, AS PER PLAN, 100 AMP		
	24 E 5	625 625	34507 34507	24 5	EACH EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, CONTROL CENTER CABINET & SITE MAINTENANCE CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, FUSE		DESIGN AGENCY
		625	34507	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, CIRCUIT BREAKER		
		625	34507		EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, DISCONNECT SWITCH		
		625	34507		EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, DISCONNECT SWITCH CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, CONTACTOR		
		625	34507		EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, PHOTO-CELL TRANSFORMER	12	
		625 625	34507 35101		EACH EACH	CONTROL CENTER MAINTENANCE ITEM, AS PER PLAN, H-O-A SWITCH REERECT EXISTING LUMINAIRE, AS PER PLAN		DESIGNER
	tin			tur				CJP REVIEWER
		625	36201	~100 ~ 2	FT	POWER CABLE FOR LIGHT TOWER, AS PER PLAN	12	XXX MM-DD-YY
		625 625	50000 50301	$\begin{bmatrix} 3 \\ 10 \end{bmatrix}$	EACH EACH	REPAIRING UNDERGROUND BREAK OF CABLE IN DUCT OR CONDUIT FRANGIBLE BASE, AS PER PLAN		PROJECT ID 121504
		625	50301		EACH	FRANGIBLE BASE, AS PER PLAN, INSTALLATION ONLY	13	SHEET TOTAL
1		625	50401		EACH	REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN		P.18 27

9
2
<u>&gt;</u>
4
Ú
Ĺ
Ú
TS
Г
7
Õ

JSER: coollic
12 43 40 PM 1
TIME: 12:43
DATE: 6/18/2025
PAPERSIZE 34x22 (in.)
EL: Sheet

			SHEET	NUM.		
GG002.dgn						
s\121504_0						
vay\Sheets	 					
ring\Roadv	 	 				
400-Engineer	 	 	 			 
D07-TSG/LG-FY26 MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/18/2025 TIME: 12:43:40 PM USER: cpollic pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 07\_D07\121504\400-Engineering\Roadway\Sheets\121504_						
0 PM USE	 	 	 			
E: 12:43:4 Projects∖E						
2025 TIME 01 Active I						
DATE: 6/18/2 Documents/						
-FY2( x22 (in.) odot-pw-02						
/LG- ssize: 34 .com:ohid	 		 			
TSG, t PAPER w.bentley	 					
D07-TSG/LG-FY26						
MOI MOI	 		 			 

	PART.			ITEM	GRAND				
	01/SAF/21		EXT	TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
					LIGHTING				
_	m		C25			ГАСЦ			
			625	50451		EACH	SECONDARY SURGE PROTECTOR, AS PER PLAN, TOWER	13	
	3		625	50451	3	EACH	SECONDARY SURGE PROTECTOR, AS PER PLAN, CONVENTIONAL	13	
	20		SPECIAL	62550500	20	EACH	EMERGENCY RESPONSE-KNOCKDOWN, ROADWAY HAZARD AND/OR LIVE EXPOSED WIRE	13	
			625	75500		EACH	LIGHT POLE FOUNDATION REMOVED	11	
			625	98000	- 2 🗸	EACH	LIGHTING, MISC.:BARRIER WALL FOUNDATION REPAIR		
	10		625	98000		EACH	LIGHTING, MISC.: PHOTOELECTRIC CELL	13	
-	· · /		625	98000		EACH	LIGHTING, MISC.: FUSED, PULL-APART CONNECTOR KIT	13	
<b>(</b>	60		625	98000	60 3	EACH		13	
<u> </u>	3		625	98000		EACH	LIGHTING, MISC.: LAMP FOR LUMINAIRE, UNDERDECK OR WALL MOUNT	13	
	3		625	98000	<u> </u>	EACH	LIGHTING, MISC.: LAMP FOR LUMINAIRE, CONVENTIONAL	13	
								$\widetilde{m}$	
	3		625	98000	3 3	EACH	LIGHTING, MISC.: RELAMP FOR LUMINAIRE, CONVENTIONAL	13 -	4 1
(	10		625	98000		EACH	LIGHTING, MISC.: REMOVAL AND REERECTION OF LIGHT POLE FOR FRANGIBLE BASE REPLACEMENT	13	
	1,500		625	98100	1,500	FT	LIGHTING, MISC.: REMOVING CABLE IN EXISTING DUCT OR CONDUIT	13	
	80		625	98700	80 7	HOUR	LIGHTING, MISC.: FAULT DIAGNOSIS	13	
	200		625	98700	200	HOUR	LIGHTING, MISC.: MARKING EXISTING UNDERGROUND LIGHTING CABLE LOCATIONS	13	
_	<u>v</u>		020		1 Lind			كتتك	3)
							TRAFFIC CONTROL		
-			<u></u>	70004	$\sim$			$\left( \begin{array}{c} \\ \\ \\ \end{array} \right)$	(2/
			630	79001		EACH	SIGN HANGER ASSEMBLY, SPAN WIRE, AS PER PLAN		
	32		630	79100		EACH	SIGN HANGER ASSEMBLY, MAST ARM		
	350		630	80100	<b>350</b>	SF	SIGN, FLAT SHEET		ARY
					uu				SUMM/
	$\sim$				$\sim$		TRAFFIC SIGNALS	$\sim$	
	24		632	04000	24	EACH	VEHICULAR SIGNAL HEAD, MISC.:VEHICULAR SIGNAL HEAD, MISC.: BACKPLATE, 3 -SECTION, AS PER PLAN	14	
			632	04000		EACH	VEHICULAR SIGNAL HEAD, MISC.:VEHICULAR SIGNAL HEAD, MISC.: BACKPLATE, 4 -SECTION, AS PER PLAN	14	
	5		632	04000	$\left  \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \right  \\ \hline \end{array} \right  \\ \hline \end{array} \right  \\ \hline \\ \\ \hline \\ \\ \end{array} \right  \\ \hline \\ \\ \hline \\ \\ \\ \\ \end{array} \right  \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	EACH	VEHICULAR SIGNAL HEAD, MISC.: VEHICULAR SIGNAL HEAD, MISC.: BACKPLATE, 5 -SECTION, AS PER PLAN	14	
			632	04911	hin	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, ALUMINUM, AS PER PLAN, YELLOW	14	
			632	05007		EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, YELLOW		RAI
			052	05007	( 12 )	ЕАСП	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12 LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, FELLOW	Luis	GENEI
				05064				m	Z
	2		632	05061	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, ALUMINUM, AS PER PLAN, YELLOW		
	2		632	05065	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, YELLOW		
	2		632	05081	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, ALUMINUM, AS PER PLAN, YELLOW	<u>} 14</u>	
	2		632	05087	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, YELLOW	13	
	183		632	10101	183	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR RED	<b>y</b> 14 <b>x</b>	
	183		632	10101	183	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR YELLOW		
-	183		632	10101	183	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR GREEN		
_	43		632	10101	43	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, YELLOW ARROW		
_								<b>₭</b> ─── <u></u>	
	45		632	10101	45	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, GREEN ARROW		
_	13		632	10101	13	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, RED ARROW		
								$\sim$	
	-th		632	10101	-19m	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, PEDESTRIAN SIGNAL MODULE, TYPE D2 COUNTDOWN	14	
	2		632	20731	<u>2</u>	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN, BLACK	14	
	<u> </u>		632	20751	<u> </u>	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN, YELLOW	14	
	<u>ک</u> 4		632	26001	4 2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN, YELLOW	14	
	un l		632	26501	m	EACH	DETECTOR LOOP, AS PER PLAN	<b>4</b> 14	j
								Lu	1
	400	[	632	30200	400	FT	MESSENGER WIRE, 7 STRAND, <sup>3</sup> / <sup>''</sup> DIAMETER WITH ACCESSORIES		1
	400		632	30601	400	FT	TETHER WIRE, WITH ACCESSORIES, AS PER PLAN	14	
			632	40501	1	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN		
			632	40301	1 500				
	1,500 1,500				1,500	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN		9 I
	1,500		632	43300	1,500	FT	SIGNAL CABLE, MISC.: RADAR DETECTION CABLE		
ļ	100		632	65301	100	FT	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG, AS PER PLAN		DESIGN AGENCY
	100		632	67191	100	FT	POWER CABLE, 1 CONDUCTOR, NO. 8 AWG, AS PER PLAN		
	1		632	70001	1	EACH	POWER SERVICE, AS PER PLAN	<u>} 14</u>	
	1		632	70301	1	EACH	CONDUIT RISER, 1-1/2" DIAMETER, AS PER PLAN		
	2		632	89500	2	EACH	PEDESTAL, 3'	w	
	8		632	89900	8	EACH	PEDESTAL, 8', TRANSFORMER BASE	~~~~~	
	LS		632	90300	LS		SIGNALIZATION, MISC.: IPAD/IPHONE DEVICES AND TRAINING FOR FIELD MAPS APPLICATION	6	1
	2		632	90400		EACH	SIGNALIZATION, MISC.: SPAN WIRE ADJUSTMENT		DESIGNER
-			632	90400				15	CJP
	C 3 1					EACH	SIGNALIZATION, MISC.: REPLACEMENT OF S-HOOK FOR TETHER WIRE		REVIEWER
	9T _		632	90400	- 91 -	EACH	SIGNALIZATION, MISC.: UPS SYSTEM INSPECTION & MAINTENANCE		XXX MM-DD-Y
					$\sim$	<b></b>			
<b>↓</b>	100		632	90400		EACH	SIGNALIZATION, MISC.: 1-HOUR CALL OUT		121504
ļ	u								SHEET TOTAL
									P.19 27

9
2
<u>&gt;</u>
4
Ú
Ĺ
Ú
TS
Г
7
Õ

USER: coollic
12 43 46 PM
TIME: 12:43
DATE 6/18/2025
APERSIZE: 34x22 (in.)
Sheet P/
Ľ.

	SHEET NUM.												
03.dgn													
21504 <u>_</u> GG0													
ay\Sheets\1													
ring\Roadw													
0-Enginee													
ollic 121504\40													
M USER: cp ct 07\_D07\													
DD7-TSG/LG-FY26 MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 6/18/2025 TIME: 12:43:46 PM USER: cpollic pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 07\_D07\121504\400-Engineering\Roadway\Sheets\121504_GG003.dgn													
2025 TIME: 01 Active P													
Documents\													
FY26													
/LG- 34x 7.com:ohio													
D07-TSG/LG-FY26 MODEL: Sheet PAPERSIZE: 34x22 (in.) DA pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\D													
DO7													
				•		I	I						

	PART	Т.		ITEM	GRAND			SEE SHEET	
	01/SAF/21		ITEM	EXT	TOTAL	UNIT	DESCRIPTION	NO.	
	01/3/1/21								
					TRAFFIC SIGNALS				
	150		632	90400		EACH	SIGNALIZATION, MISC.: NEXT-DAY CALL OUT	15	3
	90		632			EACH	SIGNALIZATION, MISC.: INSIDE CABINET MAINTENANCE		2
	90		<u>632</u> 632	90400 90400	<u> </u>	EACH EACH	SIGNALIZATION, MISC.: INSIDE CABINET MAINTENANCE - CFI INTERSECTION SIGNALIZATION, MISC.: OUTSIDE CABINET MAINTENANCE	15 15	
	1		632	90400	1	EACH	NALIZATION, MISC.: OUTSIDE CABINET MAINTENANCE - CFI INTERSECTION		
			(22)	00400	2	FACU			
	2 50		<u>632</u> 632	90400 90500	2 50	EACH FT	SIGNALIZATION, MISC.: REPAIR OF UNDERGROUND CABLES SIGNALIZATION, MISC.: RESEALING LOOP DETECTORS	$\begin{array}{c c} & 16 \\ \hline & 16 \\ \hline & 16 \\ \end{array}$	
	100		632	90500	100	FT	SIGNALIZATION, MISC.: LASHING RODS	× 16	
	150		632	90800	150	HOUR	SIGNALIZATION, MISC.: MARKING EXISTING UNDERGROUND UTILITIES		
			633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN, GROUND MOUNTED		
			633	67200	$\sim$	EACH	CONTROLLER WORK PAD		
	CC4C2	$\sim$			nerton	- EAGH	UNINTERRUPTIBLE POWER SURPLY (URS), BATTERY REPLACEMENT, AS PER PLAN	16	
		·····	633	75000	$\frac{1}{1}$	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT 5		
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: VIDEO IMAGING DETECTION CAMERA REPLACEMENT		
				00000	1				(3/3)
-			<u>633</u> 633	99000 99000	1 5	EACH EACH	CONTROLLER ITEM, MISC.: LOOP DETECTOR WIRING HARNESS CONTROLLER ITEM, MISC.: LOAD SWITCH/FLASHER REPLACEMENT	16 16	(3,
	5		633	99000	5	EACH	CONTROLLER ITEM, MISC.: BUS INTERFACE UNIT REPLACEMENT	16	RY
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: POWER SUPPLY REPLACEMENT	16	AF
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: TROUBLESHOOTING FIBER OPTIC COMMUNICATION		MMAI
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: INTERIM HOUSING ASSEMBLY WITH CONTROLLER, AS PER PLAN		
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: REMOVE AND REPLACE FLASH TRANSFER RELAY		SUI
	2		<u>633</u> 633	99000 99000	2	EACH EACH	CONTROLLER ITEM, MISC.: REMOVE AND REPLACE MERCURY RELAY SWITCH CONTROLLER ITEM, MISC.: REPLACE CAMERA CARD		AL
	3		633	99000	3	EACH	CONTROLLER ITEM, MISC.: REPLACE DETECTOR CARD	<b>7</b> 17 <b>7</b>	ER/
									EN
	2		633 633	99000 99000	2	EACH EACH	CONTROLLER ITEM, MISC.: REPLACE RADAR DETECTOR CARD CONTROLLER ITEM, MISC.: REPLACE RADAR DETECTOR MODULE		Ш ()
	2		633	99000	2	EACH	CONTROLLER ITEM, MISC.: UNINTERRUPTIBLE POWER SUPPLY (UPS), INVERTER		Ŭ
	4		633	99000	4	EACH	CONTROLLER ITEM, MISC.: UNINTERRUPTIBLE POWER SUPPLY (UPS) BATTERY REPLACEMENT, INSTALLATION ONLY	<b>E</b> 17	
	4		633	99000	4	EACH	CONTROLLER ITEM, MISC.: MALFUNCTION MANAGEMENT UNIT (MMU) REPLACEMENT, 16 CHANNEL, INSTALLATION ONLY		
	40		633	99400	40	HOUR	CONTROLLER ITEM, MISC.: ENGINEERING SERVICES SIGNAL TIMING REGULAR RATE	17	
			633	99400		HOUR	CONTROLLER ITEM, MISC.: ENGINEERING SERVICES SIGNAL TIMING OVERTIME RATE	17	
	4		<u> </u>	35001 69000	4	EACH EACH	FUSION SPLICE, AS PER PLAN ADVANCE RADAR DETECTION		
	8		809	69001	8	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	× 17 5	
	4		809 809	69100 69101	4	EACH EACH	STOP LINE RADAR DETECTION STOP LINE RADAR DETECTION, AS PER PLAN		
			809	69123		EACH	ATC CONTROLLER, AS PER PLAN	× 17 2	
	<u> </u>							<u> </u>	
	75		614	11110	75	HOUR	MAINTENANCE OF TRAFFIC           LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	<u> </u>	
	LS		614	11100	LS		MAINTAINING TRAFFIC	Ly Ly	
	LS		614	12420	LS		DETOUR SIGNING	17A	
_	+						INCIDENTALS		
	~hs		103	05000	- the second		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND		
			619	16011		MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	5	
	LS		<u>623</u> 624	10000 10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION		DESIGN AGENCY
			024	10000					
	+								
									DESIGNER
	+								CJP
									reviewer XXX MM-DD-YY
									PROJECT ID
	+							-	<b>121504</b> SHEET TOTAL
									P.20 27