City of Fayetteville Staff Review Form

2021-0036

Legistar File ID

2/2/2021

City Council Meeting Date - Agenda Item Only N/A for Non-Agenda Item

Ted Jack	1/14/2021	PARKS & RECREATION (520)				
Submitted By	Submitted Date	Division / Department				
Action Recommendation:						

Approval of a contract with Electrical Resources Inc for installation of night sky friendly LED lighting at the Grinders Skatepark in Walker Park for \$87,920.84 with a project contingency of \$4,579.16 for a total cost of \$92,500.

Budget Impact:

2250.520.9255-5806.00		Park	Parks Develoment		
Account Number	er		Fund		
13001.2001		Walker Park	Walker Park Skateboard Park Lights		
Project Numbe	r	F	Project Title		
Budgeted Item?	Yes	Current Budget	\$	98,000.00	
•		Funds Obligated	\$	4,500.00	
	_	Current Balance	\$	93,500.00	
Does item have a cost?	Yes	Item Cost	\$	87,920.84	
Budget Adjustment Attached?	No	Budget Adjustment	\$	-	
•		Remaining Budget	\$	5,579.16	

Purchase Order Number:	Previous Ordinance or Resolution #	V20180321
Change Order Number:	Approval Date:	
Original Contract Number:		

Comments:



CITY COUNCIL MEMO

MEETING OF FEBRUARY 2, 2021

TO: Mayor and City Council

THRU: Susan Norton, Chief of Staff

Connie Edmonston, Parks and Recreation Director

FROM: Ted Jack, Park Planning Superintendent

DATE: January 14, 2021

SUBJECT: Approval of a contract with Electrical Resources Inc installation of night sky friendly

LED lighting at the Grinders Skatepark in Walker Park for \$87,920.84 and a project

contingency of \$4,579.16 for a total cost of \$92,500.

RECOMMENDATION:

Approval of a contract with Electrical Resources Inc installation of night sky friendly LED lighting at the Grinders Skatepark in Walker Park for \$87,920.84 with a project contingency of \$4,579.16 for a total cost of \$92,500.

BACKGROUND:

The popular skateboard park has been used primarily by area youth who have frequently requested lighting. This contract will install the lighting which will be turned on by push button and turned off by timer.

DISCUSSION:

Engineering Elements PLLC, of Fayetteville, was the design consultant for this project, selected from RFQ 20-01, Selection #16. The project bid was within the initial staff estimates.

BUDGET/STAFF IMPACT:

Total project funding for this project in the CIP was \$98,000. The construction bid and all other costs have come in within budget allowing for the \$4,579.16 contingency. The LED lighting will cause a minor increase to electrical usage at Walker Park.

Attachments:

Staff Review Form

Electrical Resources, Inc. Contract/Bid Documents

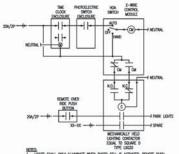


- ELECTRICAL DIMMINS (FOMER AND LIGHTNG) ME DIAGNAMATIC AND SCIEBATIC IN MAURE. LISE AUGMENT AND CHEE TO BISTALL BESTEVEL WORK TO FUNCTION PROPERLY NO FE WITHIN CONSTRUCTION AND FRANCES. ALL CONDUCTIONS, CONDUCT, AND MERCHAN SOT STEEDINGLY SPORM OR SPECIES, WHICH ARE REQUIRED FOR A COMPLETE OPERATING DOUGE OR SYSTEM ARE REQUIRED TO BE FURNISHED AND INSTALLED BY THE CONSTRUCTION.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (WPW 70, CURRENT EDITION), LIFE SHETLY CODE (WPW) 101NL CURRENT EDITION), UNDERSHOUND FACULTIES DIMAGE PREVENTION ACT (\$ 17-28-101 ET SED.), MIG DOLA ELECTRICAL CODE.
- THE CONTINCTOR SHALL NOT DEAGE IN DISJANTION OF BISIOUTEN ACTIVITIES WITHOUT HAMSE FIRST NOTIFED THE ARMANIES ONE CALL CONTER IN ACCORDANCE WITH INDESIGNAND FACILITIES DAWLET PRODUCTION ACT, NOT ALL UTILITY COMPANIES AND RESIDENCE OF THE PROMOSE OF CALL SYSTEM, THE CONTINCTOR IS ARMSED TO CONTACT ALL NON-HEARING UTILITIES AS WELL AS THE ONE CALL CONTER.
- INDEPENDAND UTLITES DEST WITHIN AND ADJACENT TO THE LIMITS OF CONCENCIONS, SOME UTLITES MAY HAVE REDN REDUCATED SHICK THE OF DESIGN AND THE CONTINUENT'S NOTICE TO PROSEED. THE CONTINUEND SHALL CONSIDE THE UTLITY COMPANIES MANCHED AND VERDAY THE LOCKERS OF UNDERSTORD UTLITIES. THE CONTINUEND SHALL MANTAN THE UTLITY LOCKTION AMPORES UTLIT. IT IS NO LONGER RESISSION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES DAMAGED DURBNIC CONSTRUCTION.
- CONDUT INSTALLED UNDER PARED OF CONDUCTE SUPFACES SHALL BE INSTALLED BY A PUSHING OR BORING METHOD AS DIRECTED IT DISONALE, IPAC OR HOPE CONDUCT SHALL BE USED. PAC CONDUCT SHALL BE WARRED "DIR. BORING" OR "DIRECTIONAL DISBORM" AS FOR REAL PROPERTY.
- PULL BOX LIBS SHALL CLOSE FILISH WITH OUT PINCHING MAY CONDUCTIONS, CONDUIT LENGTHS IN PULL BOXES SHALL BE SEE ACCORDINGLY, MAY CONDUCTIONS THAT HAVE BEEN DIAMAGED BY PINCHING SHALL BE COMPLETELY REPLACED AT CONTINCTOR'S

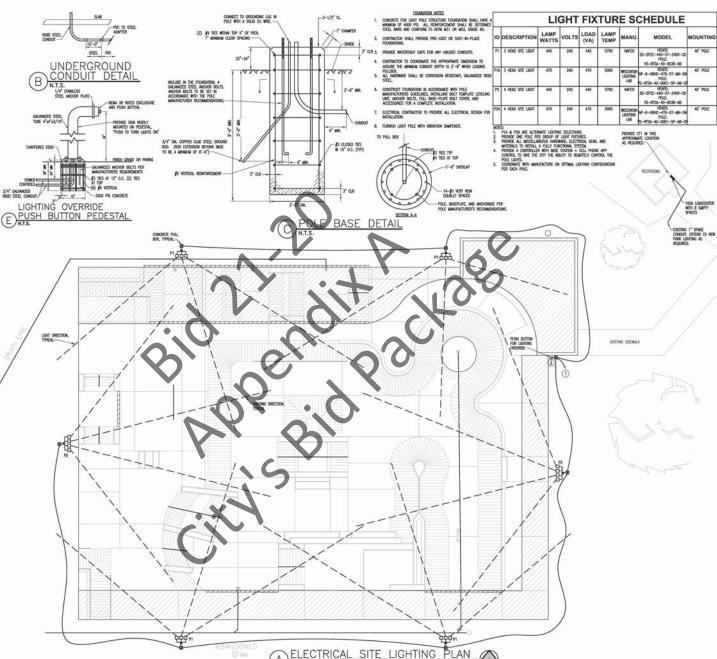
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SERVICE AND METERING REQUIREMENTS WITH THE UTILITY POWER COMPANY (COMPUTS, DROMEDIAG, COMPETE PADS, TREACHING, EIC.). PAY ALL SERVICE FEES AS NECESSARY. ARRANGE TO PROVINCE THEODORY CONSTRUCTION SERVICES AS NECESSARY.
- 12. ALL ELECTRICAL COMPONENTS SHALL BE UL-LISTED.
- 13. ALL LUMINAIRE ASSEMBLIES SHALL HAVE BUC RATING OF UD.
- 14. ALL UNDERGROUND CONDUIT SHALL HAVE WINMAM 24" COVER.
- 15. LINT ALL CONDUST FILL TO A MARRIAN OF 40%.
- 16. EQUIPMENT GROUNDING CONDUCTOR SHILL BE BONDED TO ENCH POLE, GROUND ROD, LIMINABRE AND SERVICE POINT PER MCC. SEE ARTICLES 250 AND 410.
- ALL CONCRETE PULL BOXES SHALL BE TYPE 2 HD UNLESS OTHERWISE INDICATED ON THE PLANS, PROVIDE A TYPE 2 HD CONCRETE PULL BOX WITHIN 5" OF EVERY P1 POLE LIGHT FOUNDATION.
- 19. ALL SPLICES SHALL BE WATERTONT AND UL-LISTED FOR CONTINUOUS USE IN SUBMERSBLE INSTALLATION

KEYED ELECTRICAL NOTES

- PROVIDE 204/2P CIRCUIT BREAKER IN EXISTING LOADCENTER FOR MEN LIGHTS, PROMIDE 1°C AND \$10 MIRE FROM PANEL TO MEN POLE LIGHTS.
- PROMOE PASH-BUTTON "ON" CONTROLLER TO TURN POLE LIGHTS ON FOR TWO HOUR TIME PERSO, CONTROLLER SWALL ALBIT SAME PARK COCURANTS 5 MANJES PROFE TO TURNING LIGHTS OFF WITH BURNING OF POLE LIGHTS, RETER TO DOTAL, "L" THIS SHEET.



TIME CLOCK CONTROLLED LIGHTING CONTACTOR CT1









SKATE PARK CITY OF FAYETTEVILLE 113 WEST MOUNTAIN STREET FAYETTEVILLE, ARKANSAS 72701 **FAYETTEVILLE**

SITE LIGHTING PLAN

3

ESL1.1

- 2. NOWNETWING CONDUCTS AND CITTAGE
- 3. BOXES, ENCLOSURES, AND CARNETS.
- 1.2 ACTION SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

PART 2 - PRODUCTS

2.1 METAL CONDUITS AND FITTINGS

- A METAL CONDUCT-
- LISTING AND LABELING: WE'LL CONDUITS, TUBING, AND FITTINGS SHAL BE LISTED AND LABELED AS DEFINED IN MFPA 70, BY A QUALIFIED TESTING AGENCY, AND MAKED FOR INTENDED LOCATION AND APPLICATION.
- 2. GRC: COMPLY WITH ANSI CBO.1 AND UL B. 3. PAC-CONTRO STEEL CONDUIT: PAC-CONTRO RIGIO STEEL CONDUIT
- 6. COMPLY WITH NEWA RN 1.
- 6. CONTING THICKNESS: 0.040 INCH, MINIMA
- B. METAL FITTINGS: COMPLY WITH NEWA FB 1 AND UL 514B.
- LISTING AND LABELING: LISTED AND LABELED AS DEFINED IN MPHA 70, BY A GUALIFIED TESTING AGENCY, AND WARKED FOR INTEREED LOCATION AND APPLICATION.
- 2. FITTINGS, GENERAL! LISTED AND LABELED FOR TYPE OF CONDUIT, LIGORION, AND USE.
- DEPARSON FITTINGS: PVC OR STEEL TO MATCH CONDUIT THPE, CONFLYING WITH UL 651, NATED FOR EMPROMENTAL CONDITIONS WEBE INSTALLED, AND INCLUDING FLEXIBLE EXTERNAL BONDING JAMPS.
- COATING FOR FITTINGS FOR PVG-COATED CONDUIT: WINMAIN THICKNESS OF GLOHO INCH, WITH OVERLAPPING SLEEVES PROTECTING THREADED JOINTS.
- C. JOHN COMPOUND FOR CRC. APPROVED, AS DETRIED IN NPW 70, BY AUTHORITIES HAVING JURISDICTION FOR USE IN CONQUET ASSISTANCE, AND COMPOUNDED FOR USE TO LURIBOUTE AND PROTECT IMPEDIATE CONQUET JOHN'S FROM CORROSSON AND TO DINNINCE THEIR
- 2.2 BOXES, ENCLOSURES, AND CABINETS
- A GENERAL REQUIREMENTS FOR BOXES, DICLOSURES, AND CARNETS BOXES, DICLOSURES, AND CARNETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.
- B. SHEET WETAL OUTLET AND DEVICE BOXES: COMPLY WITH NEWA OS 1
- C. CAST-METAL CUTLET AND DENCE BOXES; COMPLY WITH NEMA FB 1, ALIMINUM, TYPE FD, WITH GASNETED COMPR.
- D. NONMETALLIC OUTLET AND DEVICE BOXES: COMPLY WITH NEWA OS 2 AND 15. 514C.
- E CHBNETS:
- NEMA 250, TYPE 1 OR TYPE 3R GALWARZED-STEEL BOX WITH REMONREE INTERIOR PANEL AND REMOVABLE FRONT, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL
- 2. HINGED DOOR IN FRONT CONER WITH FLUSH LATCH AND CONCEALED
- 3. KEY LATCH TO WATCH PANELBOARDS.
- 4. METAL BARRIERS TO SERWOLTE WRING OF DIFFERENT SYSTEMS AND VOLTAGE
- 5. ACCESSORY FIET WHERE REQUIRED FOR FREESTANDING EQUIPMENT.
- NONMETALLIC CASINETS SHALL BE LISTED AND LARGEED AS DEFINED IN MFPA 70. BY A QUALIFIED TESTING AGENCY, AND MARKED FOR

- A. OUTDOORS: APPLY RACEMAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE NODCATED:
- 1. EXPOSED CONDUT: CRC.
- 2. CONCEALED CONDUIT, ABOVEGROUND: GRO

- 3. UNDERGROUND CONDUT: RNC, TYPE EPC-40-PVC.
- 4. BOXES AND ENGLOSURES, AROYEOROUND: NEWA 250, TYPE 3R. B. MINIMUM RACEWAY SIZE: 1-INCH TRADE SIZE.
- . RACEMAY FITTINGS: COMPATIBLE WITH RACEMAYS AND SUITABLE FOR USE AND LOCATION.
 - RIGID AND INTERNEDINTE STEEL CONDUIT: USE THROADED RIGID STEEL CONDUIT FITTINGS UNLESS OTHERWISE INDICATED. COMPLY WITH NEMA FB 2.10. PACE DEFINALLY CORTED, RIGID STIEL, CONDUITS: USE ONLY FIT LISTED FOR USE WITH THIS THYE OF COMMUT. PATCH AND SEAL JOHNS, MONS, AND SCRAPES IN PAC COMMON AFTER ROSEA COMMUTS AND FITTINGS. USE SEALANT RECOMMENDED BY FIT MANUFACTURER AND APPLY IN TRICORESS AND MARKET OF C RECOMMENDED IN MARKET LINES.

3.2 INSTALLATION

- A COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE
- C. WHE BENES IN RACEMY USING LARGE-RADUS PREFORMED ELLS.
 BENENC SHALL BE ACCORDING TO NEPA 70 MINIMAN
 REQUIREMENTS. USE ONLY EQUIPMENT SPECIFICALLY DESCRIED
 MITERIAL AND SIZE MOUNTE.
- D. RACEWAYS EMBEDDED IN SLABS:
- RIN CONDIT LARGE THAN 1-MON TRICE SZZ, PARALILL OR AT RIGHT HARDES TO MAN REPRODUCIMENT, WHERE AT RIGHT ANALES TO REMPOREMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT. SELDIE: RICHARDS TO REMPOREMENT AT MURIAUM 10-POOT
- ARRANGE PACEMBYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH EXPANSION FITTINGS.
- 3. ARRANGE RACEMAYS TO KEEP A MINIMUM OF 2 INCHES OF CONCRETE COMER IN ALL DIRECTIONS.
- THERACID CONDUE JOINTS, DIPOSID TO WIT, DAMP, CORROSME, QUITICOR CONDITIONS APPLY LISTED COMPOUND TO THERACS RACEMY AND FITTINGS BEFORE MAKING UP JOINTS, FOLLOW COMPO MAILFACTURER'S WRITTEN MISTRACTIONS.
- F, COAT FIELD-OUT THREADS ON PIC-COATED RACEWAY WITH A CORROGROUP-PROVINTING CONDUCTING COMPOUND PRIOR TO ASSESSED.
- 3.3 INSTALLATION OF UNDERGROUND CONDUCT A. DIRECT-BURIED CONDUIT:
- DEMANE TRENCH BOTTON TO PROVIDE FISH AND UNFORM SUPPORT FOR CONDUIT. PREPARE TRENCH BOTTOM AS SPECIFIED IN SECTION 31:2000 "DARTH MOVING" FOR PIPE LESS THAN 6 MOVES IN NOMEN, CAMPAGE.

- THEODOM FLOOR.

 CONCRETE BASIS AND WHITE CONCURS PONTRAITE BULLING FOUNDROOK, DOTHO STELL CONCURS PONTRAITE BULLING FOUNDROOK, DOTHO STELL CONCURS PONTRAITE BULLING FOUNDROOK OR EQUIPMENT BUSINESS FROM LODG OF POUNDROOK OR EQUIPMENT BUSING AT EQUIPMENT.

- NICHMAN, CHARTER.

 ATTER RISTILLAND COMBURT, BROWFILL AND COMPACT, START AT TE-AN FRONT, AND BOOK TOWNED DID OF CONDUIT RAN, LUMBO CONCULT AT DO OF RIST PREZ TO DANG WIRE DOWNEDOW, AND CONCULT TO PROVIDE MORNING. THE PROPERTY OF THE PROVINCE AND CONCULT TO PROVIDE MORNING. PROVINCE MORNING CONTINUED BENEFIT. TO WITHIN 12 MORNES OF TRIVED CONTINUED WITHIN 12 MORNES OF TRIVED WITHIN

- REFINE DAMAGE TO GALVANIZED FINISHES WITH ZINC-RICH FAINT RECOMMENDED BY MANUFACTURER.

END OF SECTION 260533

SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CARLES

TO VEW NON-PRINTING EDITION'S NOTES THAT PROVIDE GUIDANCE FOR EDITING CLICK ON WASTERWORKS/SINGLE-FILE FORMATTING/TODGLE/EDITION'S NOTES. TO READ DETAILED RESEARCH, TECHNION, INFORMATION ABOUT PRODUCTS AND MUTERALS, AND COORDINATION CHECKLETS, CLICK ON MASTERWORKS/SUPPORTING INFORMATION.

REVISE THIS SECTION BY DELETING AND INSERTING TEXT TO MEET PROJECT-SPECIFIC REDUREMENTS.

VERBY THAT SECTION TITLES REFERENCED IN THIS SECTION ARE CORRECT FOR THIS PROJECT'S SPECIFICATIONS; SECTION TITLES MAY HAVE CHANGED. SEE "SUSTAINABLE DESIGN CONSIDERATIONS" ARTICLE IN THE ENLUATIONS FOR A DISCUSSION OF SUSTAINABLE DESIGN REQUIREMENTS THAT WAY IMPACT

COURSE CLICK HERE TO SUBMIT QUESTIONS, COMMENTS, OR SUGGESTED EDITS TO THIS SECTION.>

- A SECTION MOLLINGS
- 1. COPPER BUILDING WIRE RATED 600 V OR LESS.
- 1.2 ACTION SUBMITING
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.
- PRODUCT SCHEDULE: NOIGN'E TYPE, USE, LOCATION, AND TERMINATION

- RETAIN THIS ARTICLE TO SPECIFY ALLOWABLE TYPES OF COPPER BUILDING WIRE. SEPARATE ARTICLES ARE INCLUDED IN THE SPECIFICATION FOR ALLIMAN. BUILDING WIFE AND TYPE MC CABLE (COPPER AND ALLMINIAN)
- A. DESCRIPTION: FLEDBLE, INSULATED AND LIMINSULATED, DRAWN COPPER DURBENT—CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER ACRES, OR BOTH, RATED 600 V OR LESS.
- STANDARDS:
 - LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND WARKED FOR INTENDED CONTON AND USE.
 - 2. ROHS COMPLIME.
 - 2. HISTO COMPLANT.

 2. COMPUTED AND CHEE MARRING COMPLY WITH WISE AND CHEE MARRING ACCORDING TO U.S. "PIESE AND CHEE MARRING MID. APPLICATION COIDE."

 COMPUTED SCOPPER, COMPLAND, WITH ASTAL B. 3 FOR BATE (MADULE)

 COMPLEX AND WITH ASTAL B. 8 FOR STRANGED CONCUCTORS.

 - CONDUCTOR INSULATION:
 - TYPE NA: COUNTY WITH UL 83 AND UL 778.
 TYPE THAN AND TYPE THAN 2. COUNTY WITH UL 83.
 TYPE THAN AND TYPE TIME-ECOUNTY WITH NEW WC-TO/KETA 5-60-MEDIAND UL 83.

- A PRODUCT DATA: FOR EACH TYPE OF PRODUCT
- 1.3 DUNLITY ASSURANCE
- A. TESTING AGENCY QUALIFICA
- PART 2 PRODUCTS
- 2.1 SYSTEM DESCRIPTION
- 2.2 COMPLICTORS
- A INSULATED CONDUCTORS: COPPER WIRE OR CARLE MISULATED FOR 500 V UNLESS OTHERWISE REQUIRED BY APPLICABLE COSE OR AUTHORISES!
- 8. BARE COPPER CONDUCTORS:
- 1. SOLID CONDUCTORS: ASTM B 3 2. STRANDED CONDUCTORS: ASTM B B.
- 2.3 CONNECTORS
- A LISTED AND LABELED BY IN NRTH ACCEPTABLE TO AUTHORITIES JURISDICTION FOR APPLICATIONS IN WHICH, USED, AND FOR IS THYPES, SIZES, AND GOARD AND OTHER STATES.

- CONNECTORS AND SPLICES
- A DESCRIPTION: FACTORY—FABRICATED CONNECTORS, SPLICES, AND LIKES OF SIZE, AMPACTER STRING, WHEREAL, THYE, AND CLASS FOR APPLICATION AND SERVICE BOOKDED, LISTED AND LIKELED AS DEPINED IN NYRA 7D, BY A DUBLIFED TESTING ACE
- JACKETED CABLE CONNECTORS: FOR STEEL AND ALIMINIAN JACKETS CABLES, ZINC DIE-CAST WITH SET SCREWS, DESIGNED TO CONNECT CONDUCTORS SPECIFIED IN THIS SECTION.
- LUCS: ONE PIECE, SEMILESS, DESIGNED TO TERMINATE CONDUCTORS SPECIFIED IN THIS SECTION.
- 1. WATERIAL: COPPER.
- TIPE ONE HOLE WITH STANDARD BARRELS. TERMINATION: COMPRESSION.
- PART 3 EXECUTION
- 3.1 CONDUCTOR WATERAL APPLICATIONS
- BRANCH CIRCUITS: COPPER SOLID FOR NO. 10 AWG AND SMALLER, STRANGED FOR NO. 8 AWG AND LARGER.
- BRANCH CIRCUITS: COPPER, SOLID FOR NO. 12 AWG AND SMALLER; STRANGED FOR NO. 10 AWG AND LARGER.
- 3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND MISNIC MITTINGS.
- AND UNDERGROUND: TIPE THEN/THINN-2, SINGLE CONDUCTORS RICERAY, TYPE XHHH-2, SINGLE CONDUCTORS IN RACEMAY, OR LINDESGROUND BRANCH-CIRCLIT CARLE, TYPE UF.
- CONDUCTORS AND CABLES
- WHETE RACIONY INSTALLATION BETWEEN CONDUCTOR AND CABLE
 MANATION POINTS ACCORDING TO SECTION 200333 "RACIONASS AN
 FOR ELECTRICAL SYSTEMS" PRIOR TO PULLING CONDUCTORS
- USE PULLING MEANS, INCLUDING FISH TWPE, CARLE, A BASKET-MEANE WIRE/CABLE CRIPS, THAT WILL NOT B
- A TIGHTH BEESTAL CONTINUES AND TITMANUS ACCORDING TO WARFFULLESS PRESIDED FOR SHARE FING WELLES, IF MANAGEMENTS IN SECURITIES AND ROOMED, USE THOSE SPECIFIES AS A HOSPITAL FOR THE PROPERTY OF THE PROPERTY O
- B. SPLICES

- PART X PERCURN
- CTORS: I

- 1. FEEDERS AND REAMON CRICIES.
- 2. LIGHTING CIRCLITS.
- 3.3 INSTALLATION
- A GROUNDING CONDUCTORS: ROUTE ALENG SHORTEST AND STRAIGHTST RUTHS POSSIBLE UNLESS OTHERWISE INDUSTED OR ROURISED BY CODE. AFOR OBSTRUCTING ACCESS OR PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, MEPICT, OR DAMAGE.

IND OF SECTION 260526

GDIERN, ELECTRICAL REQUIREMENTS 260500 - 4

- PART 1 GENERAL
- 1.1 SUMMARY A. SECTION INCLUDES:
 - GROUT.
 GENERAL ELECTRICAL INSTALLATION REQUIREMENTS
- 1.2 PRE-CONSTRUCTION SUBMITTALS
- A. SUBMIT FOR APPROVAL MANUFACTURER'S TECHNICAL DATA.

 NICLIONIO PERFORMANCE SPECIFICATIONS FOR ALL EQUIPMENT,
 MATERIALS AND OTHER MANUFACTURED TEMS. OREAN APPROXIMATION MATERIAL MATERIAL PROPERTY.

 PRODUCT MANUFACTURERS NOT SPECIFICALLY NAMES PROPERTY.
- B. BHD SUBMITIALS IN DURABLE COVERS WITH CONTENTS CONVENIENTLY ORGANIZED AND PROPERLY INDICED.
- C. NAVE SUBMITIALS ON ALL WORK IN DIVISION 26 AT ONE TIME, EXCEPT BY SPECIAL PERMISSION.
- A. IT IS INTENDED THAT THE CONTINCTOR PROMDE A COMPLETE AND GOVERNING ELECTRICAL SYSTEM HOLLIAMS ALL INCODING TIDES AND CONDITIONS INCLUSION FOR PROPER OPERATION OF CUSTOMMELY INCLUDED EVEN THOUGH EACH AND EVERY ITEM MAY NOT BE INCOMED.
- THE DRAWMES NOTATE THE GENERAL LUTOUT REQUIREMENTS FOR EQUIRMENT, POTURES, COMBUT, DEMOSS, ETC. FRAIL LAYOUT WILL BE GOMENED BY ACTUAL FELD CONDITIONS WITH ALL MEASUREMENTS VERFELD AT THE SITE.
- CONDUIT AND WIRNE SHOWN ON THE DRIWINGS IS DAN UNLES CRICIONISE NOTED, AND IS INTEREED TO INDICATE I AND BRANCH CRICIET ASSAUGIMENTS, PRASE BALANCE, AND WIRNE CONNECTION REQUIREMENTS.
- IT IS INTENDED THAT THE ELECTRICAL INSTALLATION BE SAFE, RELABLE, DIESCY (FRICENT AND EASLY MANTANED WITH ADEQUATE PROVISIONS FOR ACCESS TO EQUIPMENT. IT IS INTENDED THAT THE ELECTRICAL SYSTEM OPERATE WITH NOSE LEVELS BELOW THE CRITERIA RECOMMENDED BY NEW, PROMOE CORRECTIVE ACTION TO REDUCE OBJECTIONWEE HUM OR VIBRATION.
- THE CONTRACTOR SPECIFICATIONS RE-OR IS CAUTIONED TO EXAMINE ALL DRAWINGS AND RELATING TO CHIEF THROES OF ACRE, AND HE SHALL PROVISIONS-ED REVEN ALL OTHER MORE.
- 2.1 PRODUCT REQUIR
- SUPPORT ALL PRODUCTS BY SERVICE ORGANIZATIONS WITH SPWICE PARTS INVENTORY AND PERSONNEL LOCATED REASONNELY CLOSE TO THE SITE.
- WHERE MULTIPLE UNITS OF THE SAME TYPE OR CLASS ARE REQUIRED, PROVIDE ALL LIMITS OF THE SAME MANUFACTURER.
- A. STORE PRODUCTS IN THEIR ORIGINAL CONTAINERS AND SHELTER IN A SUITABLE EMPROMENT.
- 2.5 SUBSTITUTORS
- A FOR PRODUCTS SPECIFED BY GENERIC REFERENCE, SELECT MAY PRODUCT MEETING SLICH STUNGARD. FROM PRODUCTS SPECTED IN MAINING ONE OR MORE PRODUCTS OR MANIFACTURERS, SELECT MAY INMED. SUBMIT REQUEST IN WRITHING FOR SUBSTITUTION OF MAY IMMEDIATERS NOT SPECIFICALLY NAMED AND ORDINA APPROVIL AT LEAST 5 DAYS PRORT TO BIODRIG.
- PROVIDE ALL INFORMATION REQUIRED TO SUPPORT CLAM OF EQUALITY OF PRODUCT PROPOSED FOR SUBSTITUTION. SUBSTITUTIONS WILL BE CONSIDERED ONLY FEDINALITY IN QUALITY, TETCOMAY, PERFORMANCE SIZE, WEDER, RELINGUITY, APPEARANCE AND EASE OF MANTEMANCE IN SPECIFIED PRODUCT. WHOSE APPROVED SUBSTITUTIONS ALTER THE DESIGN, SPACE REQUIREMENTS, ELECTRICAL REQUIREMENTS, CONNECTIONS, COOLING LOADS, ETC. NACLULE ALL WORK NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF GUALITY EQUAL TO OR BETTER THAN THAT OFFININES WHILL PROVIDE A WARRISTORIES PEDICIPED.
- 2.4 GROUT
- A NONMETALLIC, SHRINKAGE-RESISTANT GROUT: AS FACTORY-PACKAGED, MONASTALLIC AGGREGATE GROUT, NONSTAINING, MORED WITH WATER TO CONSISTENCY APPLICATION AND A 30-MINUTE WORKING TIME.

PART 3 - EXECUTION

- 3.1 COMMON RECHREWENTS FOR FLECTRICAL INSTALLATION
- A. COMPLY WITH NECA 1.
- L DUPPMENT: INSTALL TO FACULATE SERMCE, MAINTENANCE, AND REPAR OR REPARCHMENT OF COMPONENTS OF BOTH ELECTRICAL EQUIPMENT AND OTHER MEANER INSTALLATIONS. CONNECT IN SUCH A NEW AS TO FACULATE PUTURE DISCONNECTION WITH MINIMAM INTERFERENCE WITH OTHER TILES ON THE WOOM?
- 3.2 MANUFACTURER'S DIRECTIONS
- A INVOLE INSTALL CONNECT, TEST AND OPERATE ALL PRODUCTS AND SYSTIBLS IN ACCORDANCE WITH WARRACTISER'S RECOMMENDATIONS. IN COME OF CONFLICTION REQUIREMENTS REPORTED WARRACTISER'S DIRECTIONS AND CONTINACT DOCUMENTS, DETAIN INSTRUCTIONS BEFORE PROCESSION WITH NOTIN.
- A KEEP PREMISES FREE AND CLEAN OF DRIT, DEBRS, ETC. LIPON COMPLETION OF WORK CLEAN AND POLISH ALL FIXTURES, EQUIPMENT, ETC.
- A. NO PERSON SHALL PERFORM ELECTRICAL WORK WITHOUT POSSESSING A WASTER OR JOURNEYMAN LICENSE FROM THE STATE ELECTRICAL EXAMINER'S BOARD. ALL ELECTRICAL WORK AND APPRENTICES SHALL BE SUPERMISED BY A MASTER OR JOURNEYMAN ELECTRICAN.
- CAREFULLY PERFORM ALL CUTTING, DRIGLING, DIGGING, ETC. AND PATCH OR REPINSH DISTURBED AREA TO THE CONDITION OF ADJOINING OR SIMILAR SURFACES. DO NOT CUT ANY STRUCTURAL MEMBERS.
- CONSEAL CONDUIT IN CHASES, FURRINGS, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED. FLUSH MOUNT EQUIPMENT IN FINISHED WALLS WHOLEVER POSSIBLE.
- 3.5 COORDINATION
- A CODIONATE THE ELECTRICAL WORK WITH THE WORK OF ALL OTHER TRACES. PHYRIG OR COLPHING RECURRING SLOPE OR SPECIFIC WOUNTING REDIRT WILL HAVE STORT OF WAY OVER CONDUIT AND OTHER PRODUCTS WHOSE ELEVITION OW BE CHANGED.
- 3.6 FOLEPHENT CONNECTIONS

- 3.7 PROTECTION REQUIREMENTS
- A. LOCATE DESTING UTILITY LINES AND IDENTIFY AND PROTECT DURING EXCANATION AND INSTALLATION. B. PROTECT ALL WORK INCLIONG BUILDING FINSHES AGAINST DAMAGE DUE TO DIRT, WATER, CHEMICALS, HANDLING, THEFT, ETC. CLOSE ALL OPDINGS IN COMDUIT AND EQUIPMENT DURING INSTALLATION.
- C. PROVIDE WARNING DEVICES AROUND ALL EXPOSED "LINE" PIRETS OR HIGH TEMPERATURE SURFACES.
- A POST CONSTRUCTION SUBMITTEES
- DELINER ALL SPECIAL TOOLS AND SPANE PARTS NECESSARY FOR PROPER OPERATION AND MAINTENANCE AND AS CALLED FOR IN OTHER ELECTRICAL SECTIONS. B. SUBMIT OPERATIONS AND MANTENANCE (DBM) MANUALS COMERNE ALL PHASES OF FOUR-MENT AND SYSTEMS PROMISE. INCLUDE COMPLETE SHOP PARTS DATA AND COPY OF MANUFACTURING DATA SHEETS AND SHOP DAMANUS REQUIRED IN PRE-CONSTRUCTION SEMINITIAS.
- C. SUBMIT EXTENDED WARRANTES REQUIRED IN EXCESS OF ONE YEAR. ASSEMBLE ALL CLOSEOUT DOCUMENTS FOR ELECTRICAL SYSTEM IN 3-RING BINDERS WITH DIMDER TARS LABELED AND PROPERLY INDICED SUBMIT THE MUMBER OF SETS AS BEDURED BY THE ARCHTECT.

3.9 INSTRUCTIONS TO OWNER

A PROME COMPTENT INSTRUCTION TO THE OWNER'S PERSONNEL COMERNING OPERATION AND WANTENANCE OF ALL ELECTRICAL SYSTEMS. PROMICE SPECIALIZED INSTRUCTION OF WANTENCHIPER'S TECHNICAL REPRESENTATION WICH REQUIRED. 3.10 USE OF EQUIPMENT

A THE CONTRACTOR SHALL NOT USE THE PERMANENT ELECTRICAL SYSTEM FOR CONSTRUCTION ACTIVITY EXCEPT BY SPECIAL PERMASSION. IF PERMITTED, THE CONTRACTOR'S USE OF MY EQUIPMENT SHALL NOT REDUCE THE MARRIANT THAL SYLEPTED FOR MY EQUIPMENT.

- 3.11 OCNERN WARRACTY A MARRAY THE ELECTRICAL RISTALLATION AGAINST DETECTS FOR A PERSON OF ONE 150A FROM THE DUEL OF SUBSTANTIAL COMPLICION IN ACCIONANCE WITH ADOPTICES S'SECRICIAIDADA, PROMOE ALL LARGE, REPALEMENT HAVE SERVICES, SERVICES, TRANSPORTION FOR MARCHITO, COSTS NECESSARY FOR PROPER OF SECRICIANO, STETIED CURRING THE MINISTANT PRISON. LARGE DOCO ARY DAMAGE TO THE BUSINESS OF ORDINARY OF OTHER DUTY SHOW ASSUMED FINAL DETECTS.
- NORP DURING THE WARRANTY PERSON PRODUCTS MOJOR REBINANCIP DURING THE WINNINT PERSON. PEPCIAL WINNINTH MANIFECTURES RECEIVED TO ESTAN OR REPLACE COLOR-DENTS OF FORLESS), (AND LIAMMES—LONG-RING DEDOCISS) THAN FAR. IN MIEDRAS OF WINNINGS—THAN CORROSCO, OR THAN FACE, STAIR, PERSONAT, EDOCE, OR CHAIK DUE TO EFFECTS OF WINNINGS OR SOUR BRANCHOS WHITHIN A SPICETED WINNINGS WINNINGS AND SOUR BRANCHOS WINNINGS AND SOURCE, I'M, DANIEL, WORDLISH, ARESE, OR UNIVERSITY DESIRES FIORMS SPICEL, WORNINGS, ARESE, OR UNIVERSITY DESIRES FIORMS SPICEL, WORNINGS, ARESE, OR UNIVERSITY DESIRES FIORMS SPICEL, WORNINGS, ARESE, OR UNIVERSITY DESIRES FIORMS SPICEL, WORNINGS PERSON.
- C. WARRANTY PERIOD: FINE YEARS FROM DATE OF SUBSTANTIAL COMPLETION

END OF SECTION 260500







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