

TOWNSHIP OF RUSSELL MULTI-USE RECREATION CENTRE - PHASE 1

150 SPORTSPLEX STREET., EMBRUN, ON

ELECTRICAL

ELECTRICAL SPECIFICATIONS:

- COMPLY WITH THE REQUIREMENTS OF THE INSTRUCTIONS TO BIDDERS, THE GENERAL CONDITIONS OF THE CONTRACT AND THE SUPPLEMENTARY GENERAL CONDITIONS INCLUDED IN THE TENDER DOCUMENTS.
- CONTRACTOR SHALL FOLLOW THE BIDDING DOCUMENT PROJECT SCHEDULE. UPON AWARD, CONTRACTOR SHALL SUBMIT WORK SCHEDULE AND EQUIPMENT DELIVERY SCHEDULE TO PROJECT MANAGER & ENGINEER FOR REVIEW AND APPROVAL.
- ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER.
- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND BY-LAWS AND BE INSTALLED BY LICENSED WORKMEN SKILLED IN THAT PARTICULAR PORTION OF THE CONTRACT.
- ANY CONFLICT OR QUESTIONS THAT ARISE IN RELATION TO THE DESIGN DOCUMENTS DURING THE TENDER PERIOD SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THIS PROCEDURE IS NOT FOLLOWED, REROUTING AND MODIFICATION AS REQUIRED TO COMPLETE THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- GIVE ALL NOTICES, OBTAIN ALL NECESSARY PERMITS AND PAY ALL APPLICABLE FEES AND INSPECTION COSTS AND DELIVER TO ENGINEER ALL NECESSARY FINAL CERTIFICATES OF INSPECTION AND APPROVAL WHICH MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER WORK, AS EVIDENCE THAT WORK INSTALLED CONFORMS WITH LAWS AND REGULATIONS OF ALL GOVERNING AUTHORITIES, BEFORE FINAL CERTIFICATE OF PAYMENT MAY BE CONSIDERED DUE. FURNISH COPIES OF ALL DRAWINGS AS MAY BE REQUIRED TO COMPLY WITH ABOVE. NOTIFY INSPECTION AUTHORITIES IN SUFFICIENT TIME FOR THEM TO INSPECT WORK.
- EXAMINE SITE AND LOCAL CONDITIONS AFFECTING WORK UNDER THIS DIVISION TO ENSURE THAT WORK UNDER THIS DIVISION CAN BE SATISFACTORILY CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS.
- GUARANTEE ALL WORK FOR 12 MONTHS FROM THE DATE OF ACCEPTANCE.
- ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ALL PERSONNEL FROM HAZARDS DURING THE WORK. PROTECT ALL EQUIPMENT FROM DAMAGE FROM ANY CAUSE INCLUDING WEATHER.
- USE ONLY NEW, FULLY CSA AND UL APPROVED FOR USE AS INSTALLED MATERIALS, AND TO MEET THIS SPECIFICATION IN ALL RESPECTS.
- INSPECT ALL EQUIPMENT UPON DELIVERY AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES.
- COORDINATE MATERIAL STORAGE WITH THE SITE SUPERINTENDENT AND OTHER TRADES.
- CONTRACTOR TO NOTIFY PROJECT MANAGER IN WRITING MINIMUM OF THREE (3) WORKING DAYS BEFORE SCHEDULED SUBSTANTIAL COMPLETION TO ARRANGE INTERIM INSPECTION AND EQUIPMENT COMMISSIONING. NOTIFY PROJECT MANAGER IN WRITING OF ANY CHANGES IN SCHEDULE.
- DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE ALL RUBBISH AND WASTE RESULTING FROM THIS WORK, TO THE SATISFACTION OF THE ENGINEER. CHECK, CLEAN AND REPAINT WHERE NECESSARY, ALL ELECTRICAL EQUIPMENT AND LEAVE IN A FIRST CLASS CONDITION.
- THE WORK AS COVERED BY THESE SPECIFICATIONS AND PLANS IS INTENDED TO COMPLY EXACTLY WITH THE LATEST RULES AND REGULATIONS OF THE INSPECTION AUTHORITIES, AND THESE RULES ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, ANY RULING BY THE INSPECTION AUTHORITY SHALL BE FINAL. ALL CHANGES AND ALTERATIONS TO THE CONTRACTOR'S WORK REQUIRED BY AN AUTHORIZED INSPECTOR OR ANY AUTHORITY HAVING JURISDICTION DUE TO THE CONTRACTOR'S WORK SHALL BE CARRIED OUT AT NO EXPENSE TO THE OWNER.
- MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION.
- PROVIDE ELECTRONIC COPY (PDF FORMAT) OF SHOP DRAWINGS FOR ALL SYSTEMS AND EQUIPMENT FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING INFORMATION:
 - FLOOR ANCHORING METHOD AND FOUNDATION TEMPLATE.
 - DIMENSIONED CABLE ENTRY AND EXIT LOCATIONS.
 - DIMENSIONED POSITION AND SIZE OF BUS.
 - OVERALL WEIGHT, LENGTH, HEIGHT AND DEPTH, GAUGE AND TYPE OF MATERIALS.
 - DIMENSIONED LAYOUT OF INTERNAL AND FRONT PANEL.
 - MOUNTED COMPONENTS.
 - ELECTRICAL CHARACTERISTICS AND PERFORMANCE DATA.
 - WIRING DIAGRAMS.
 - NAME OF CONTRACTOR C/W SIGNED REVIEW STAMP.
 - NAME OF COMPONENT, SERVICE OR SYSTEM.
 - NUMBER OF PAGES FOR EACH TYPED PAGE (IE. PG. 1 OF 5).
- SUBMIT ELECTRONIC (PDF FORMAT) COPY OF OPERATION & MAINTENANCE (O&M) MANUALS FOR APPROVAL. PROVIDE A COPY OF THE FOLLOWING IN THE MANUALS:
 - LETTER OF WARRANTY
 - ELECTRICAL SAFETY AUTHORITY (ESA) INSPECTION CERTIFICATE.
 - CITY INSPECTION REPORT
 - FIRE ALARM VERIFICATION REPORT
 - UPDATED PANEL SCHEDULES, C/W ELECTRICAL COMPANY'S NAME, DATED AND CIRCUIT BREAKER SIZES.
 - SHOP DRAWINGS
 - AS BUILTS
 - LOAD BALANCING REPORT.
 - MECHANICAL EQUIPMENT START UP REPORTS.
 - LIST OF SUPPLIERS C/W ADDRESS AND PHONE NUMBERS.
- SUPPLY ALL NECESSARY TOOLS, EQUIPMENT AND PERSONNEL AND PROVIDE DEMONSTRATION AND TRAINING TO OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE.
- AFTER AWARD OF CONTRACT, SUBMIT A DETAILED COST BREAKDOWN INDICATING

MATERIAL AND LABOUR COSTS FOR EACH PORTION OF THE WORK, INCLUDING DEMOLITION, LIGHTING, POWER DISTRIBUTION, COMMUNICATIONS, FIRE ALARM, ETC. TO BE APPROVED BY THE ENGINEER.

- EXISTING ELECTRICAL SYSTEMS HAVE BEEN ONLY PARTIALLY INDICATED. REGARD INFORMATION RELATED TO EXISTING INSTALLATION AS A GUIDE ONLY. DETERMINE STATUS, QUANTITIES AND LOCATION OF EQUIPMENT AND SYSTEMS, ON SITE, PRIOR TO COMMENCEMENT OF REMOVAL AND/OR EXTENSION OF SAME.
- THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION.
- THESE ELECTRICAL DRAWINGS AND SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND SPECIFICATIONS.
- THE WORD "PROVIDE" SHALL DENOTE "SUPPLY, INSTALL, CONNECT AND TEST".

- LABELLING:**
 - FOR ALL NEW, RELOCATED AND EXISTING-TO-REMAIN ELECTRICAL DEVICES WITHIN THE CONTRACT AREA, PROVIDE CLEAR "ROTHER 19-TOUCH" LABELS INDICATING CIRCUIT AND PANEL AT ALL EQUIPMENT, DEVICES, RECEPTACLES AND JUNCTION BOXES. FOR DEDICATED RECEPTACLE, INCLUDE THE WORD "DED" C/W CIRCUIT NUMBER. FOR EXISTING RECEPTACLE, PROVIDE BLACK LETTERING ON RED BACKGROUND.
 - PROVIDE LAMBOOD LABELS ON DISCONNECT SWITCHES, MOTOR STARTERS, TRANSFORMERS AND PANELS. CLEARLY INDICATE EQUIPMENT CONTROLLED OR AREA SERVED AS WELL AS FEEDER SOURCE. INDICATE FUSE SIZE AND TYPE ON FUSED DISCONNECTS SWITCHES. LETTERING TO BE BLACK ON WHITE BACKGROUND, MINIMUM 25mm HIGH.
 - TRACE EXISTING CIRCUITS AND UPDATE PANEL SCHEDULES.

- PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILINGS AND OTHER SURFACES REQUIRED TO FIT THE ELECTRICAL EQUIPMENT. CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB, REGARDING BUILDING REQUIREMENTS AND POLICES. PRIOR TO SLAB CUTTING OR CORING, FIRST SCAN THE SLAB AND COORDINATE DRILLING TO MINIMIZE CUTTING OF THE REINFORCING STEEL. FIRE STOP ALL NEW FIRE RATED PENETRATIONS. THE CONTRACTOR IS TO INCLUDE IN TENDER PRICE ALL WORK ASSOCIATED WITH CORE DRILLING AFTER NORMAL WORKING HOURS. OBTAIN WRITTEN VERIFICATION OF THE LOCATIONS FROM THE ARCHITECT AND/OR INTERIOR DESIGNER PRIOR TO DRILLING. CUTTING TORCHES SHALL NOT BE USED FOR MAKING HOLES. PATCH ALL HOLES THROUGH SLAB WITH FIRE-STOP CAULKING (ULC LISTED). PATCHED SURFACES ARE TO BE PRIME FINISHED, READY FOR FINAL COVERING BY OTHERS.**

- GROUNDING AND BONDING:**
 - PROVIDE GROUNDING AND BONDING OF ALL EQUIPMENT WITH APPROVED FITTINGS AND CONDUCTORS OF AMPLIFIED CAPACITY IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE. ALL CONDUCTORS SHALL HAVE GREEN INSULATION OR BE COLOUR CODED WITH PERMANENTLY ATTACHED GREEN TAPE 21MM WIDE AT EACH END. PROVIDE INSULATED GROUND/BONDING CONDUCTOR IN EACH CONDUIT.

- MOUNTING HEIGHTS:**

UNLESS NOTED OTHERWISE, MOUNTING HEIGHT FOR ALL ELECTRICAL DEVICES SHALL MEET 'BARRIER-FREE' CODE REQUIREMENTS:

- LUMINAIRES:**
 - PROVIDE LIGHTING FIXTURES, COMPLETE WITH LAMPS, AS INDICATED IN LIGHT FIXTURE SCHEDULE.
 - EACH LUMINAIRE CONNECTED TO A BRANCH CIRCUIT EXCEEDING 150V-TO-GROUND, WITH DOUBLE-ENDED LAMPS AND CONNECTED TO A BALLAST OR DRIVER, SHALL HAVE INTEGRAL DISCONNECTING MEANS AS PER THE CANADIAN ELECTRICAL CODE.

- MOLDED CASE CIRCUIT BREAKERS:**
 - BOLT-ON MOLDED CASE CIRCUIT BREAKER: QUICK-MAKE, QUICK-BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATION WITH TEMPERATURE COMPENSATION FOR 40 C AMBIENT.
 - COMMON-TRIP BREAKERS: WITH SINGLE HANDLE FOR MULTI-POLE APPLICATIONS.
 - CIRCUIT BREAKERS WITH INTERCHANGEABLE TRIPS AS INDICATED.
 - MOLDED CASE CIRCUIT BREAKER TO OPERATE AUTOMATICALLY BY MEANS OF THERMAL AND MAGNETIC TRIPPING DEVICES TO PROVIDE INVERSE TIME CURRENT TRIPPING AND INSTANTANEOUS TRIPPING FOR SHORT CIRCUIT PROTECTION.

- FIELD QUALITY CONTROL:**
 - CONDUCT AND PAY FOR THE FOLLOWING TESTS:
 - 120V POWER DISTRIBUTION INCLUDING PHASING, VOLTAGE, GROUNDING AND LOAD BALANCING.
 - LIGHTING AND CONTROLS
 - INSULATION INTEGRITY TESTING
 - HOT SPOT TESTING BY INFRARED SCANNER
 - SUBMIT TEST PROCEDURES AND INFORM ENGINEER AT LEAST 7 DAYS BEFORE SCHEDULED TESTS. ENGINEER TO WITNESS TESTS AT HIS DISCRETION.

- WIRING AND RACEWAYS:**
 - ALL EXTERIOR UNDERGROUND WIRING TO BE COPPER RWU-90, MINUS 40 C RATED. AC-90 (BX) MAY BE USED IN REMOVABLE CEILINGS AND METAL PARTITION WALLS. MAXIMUM LENGTH 3 METERS.
 - ALL NEW RACEWAYS SHALL BE THIN WALL ELECTRICAL METALLIC TUBING (EMT) RAIN-TIGHT COUPLING AND CONN UNLESS OTHERWISE INDICATED. CONDUITS TO BE COMPLETE WITH STEEL SET-SCREW COUPLINGS AND CONNECTORS AND NYLON BUSHING.
 - USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO EQUIPMENT IN DAMP, WET OR CORROSIVE LOCATIONS.
 - SURFACE CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
 - ALL CONDUITS AND JUNCTION BOXES TO BE ANCHORED TO THE BUILDING STRUCTURE. PROVIDE A POLYPROPYLENE FULL STRING IN ALL EMPTY CONDUITS.
 - EXISTING FEEDERS RELOCATED UNDER THIS CONTRACT TO BE REWIRED: SPLICE NEW WIRE TO EXISTING WIRE FROM JUNCTION BOX TO JUNCTION BOX, OR FROM JUNCTION BOX TO EXISTING EQUIPMENT.
 - CONTRACTOR MAY RE-USE EXISTING CONDUIT AND/OR GRID PULL BOXES WHERE SUITABLE FOR RE-USE WITH NEW OR RELOCATED RUNS. REMOVE AND DISPOSE OF ANY REDUNDANT EXISTING WIRING.
 - 120V CIRCUITS OF LENGTH GREATER THAN 25M TO BE #10 AWG MINIMUM OR AS REQUIRED TO LIMIT VOLTAGE DROP WITHIN CODE SPECIFIED VALUE. MINIMUM SIZE CONDUIT TO BE 21MM UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES:

- ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE OF ONTARIO, AND WITH NEW ARCHITECTURAL/INTERIOR DESIGNER'S LAYOUT (LOCATION/MOUNTING HEIGHTS). CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, PAY ALL APPLICABLE FEES AND INSPECTION COSTS.
- COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE.
- ENSURE ELECTRICAL COMPONENTS (IE. WIRING, CONDUIT, ETC.) RELATING TO THE AREA OF WORK ARE INDEPENDENTLY SECURED TO COMPLY WITH CODE REQUIREMENTS. IT IS NOT ACCEPTABLE TO SECURE THE COMPONENTS TO DUCTWORK, DUCT WORK TO CONDUIT, OR ANY OTHER SYSTEMS.
- ENSURE ALL EXISTING CEILING MOUNTED BOXES ARE CLOSED PRIOR TO COMPLETION OF PROJECT. PROVIDE LABELLED AND COLOUR CODED COVER PLATES (IE. PANEL NAME AND CIRCUIT NUMBER) AS REQUIRED.
- MINIMUM THREE (3) WORKING DAYS PRIOR TO CLOSING CEILING, NOTIFY THE ENGINEER FOR CEILING INSPECTION.

LIGHTING NOTES:

- CLEAN LAMPS, LENSES, INTERIOR AND VISIBLE SURFACES OF LUMINAIRES. REPLACE DEFECTIVE LAMPS, BALLAST AND DAMAGED LENSES.
- LUMINAIRES IN CONSTRUCTION AREA ARE TO BE INDEPENDENTLY SUPPORTED, INCLUDING EXISTING TO REMAIN, RELOCATED AND NEW, TO COMPLY WITH CODE REQUIREMENTS.
- ADD, RELOCATE AND CONNECT LIGHT FIXTURES TO SUIT INDICATED LAYOUT. EXTEND CONDUIT AND WIRING AS NECESSARY AND CONNECT LUMINAIRES TO EXISTING CIRCUITS. TURN OVER SURPLUS FIXTURES TO OWNER.
- WHERE AIR SUPPLY TROFFER ARE BEING RELOCATED BY MECHANICAL CONTRACTOR TO EXISTING LIGHT FIXTURE, ELECTRICAL CONTRACTOR TO COORDINATE DISCONNECTION AND RECONNECTION AS REQUIRED.
- MODIFY ALL AFFECTED (RELOCATED OR REWIRED) 347V LIGHT FIXTURES TO PROVIDE BALLAST DISCONNECTS AS PER OESC.

COLOR CODING:

- APPLICABLE TO NEW OR RELOCATED WORK UNLESS OTHERWISE NOTED.
- TO CONFORM TO CLIENT'S BUILDING CODING SYSTEM.
 - COLOUR CODE CONDUITS AND BOXES.
 - CODE WITH PLASTIC TAPE OR PAINT WHERE CONDUITS ENTER WALLS, CEILING, OR FLOOR AND AT 15 METER INTERVALS.
 - COLOURS: 25mm WIDE PRIME COLOUR AND 20mm WIDE AUXILIARY COLOUR.

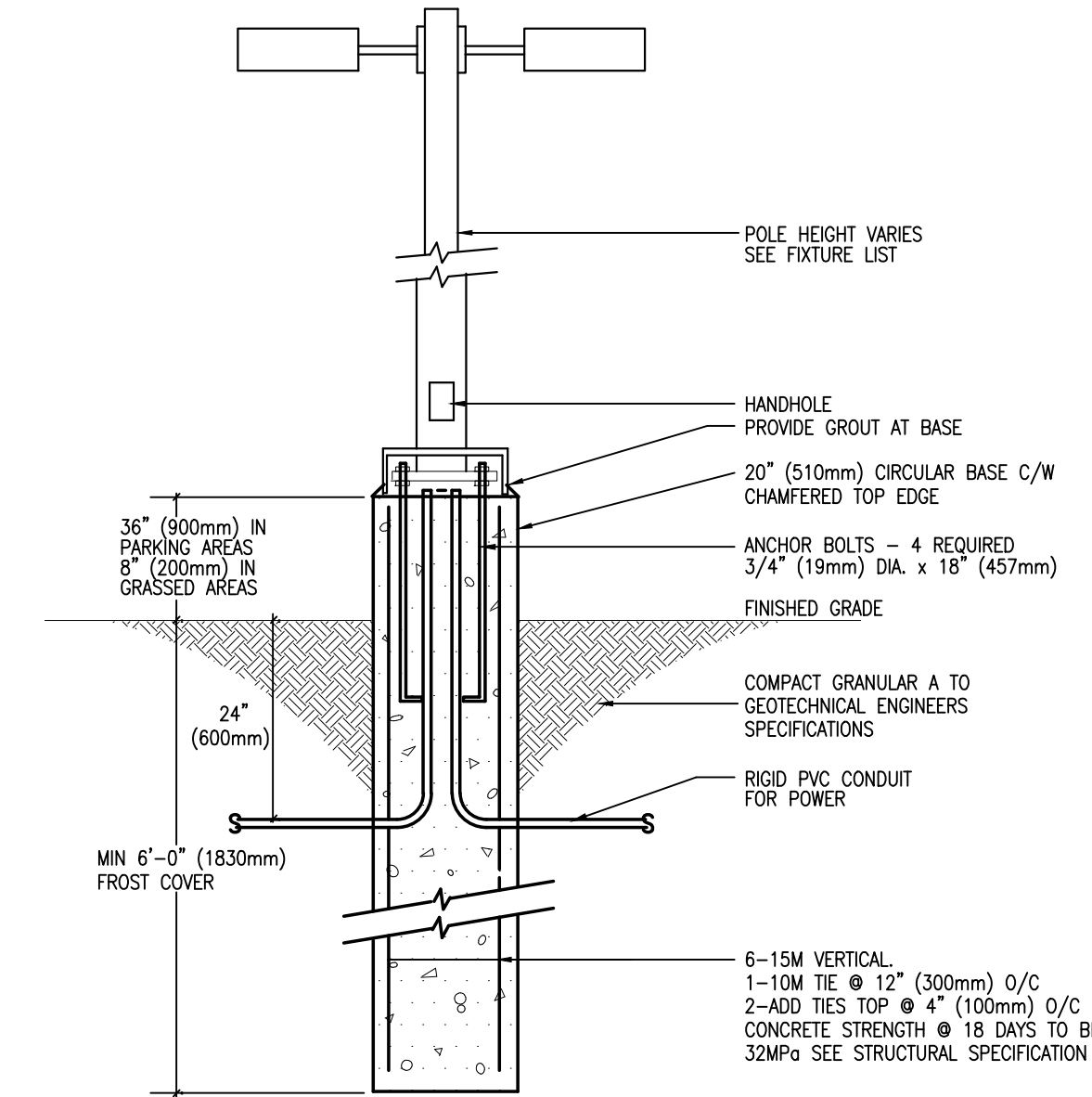
SERVICE PRIME COLOUR AUXILIARY COLOUR
UP TO 250v BLUE BLUE

OUTLETS LOCATION:

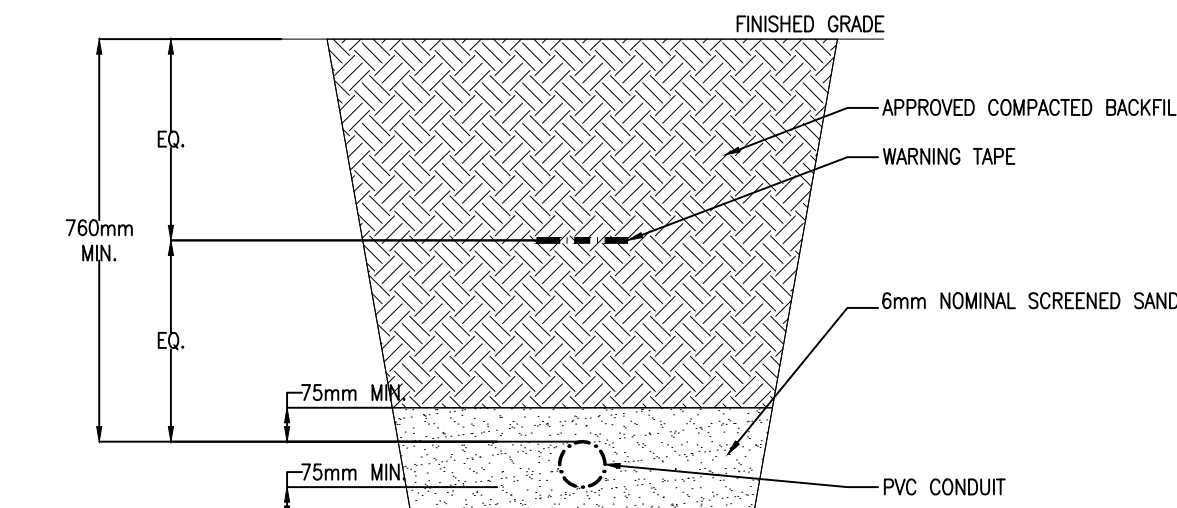
- EXACT LOCATION AND MOUNTING HEIGHTS OF OUTLETS TO BE COORDINATED WITH INTERIOR DESIGNER/ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. REFER TO ARCHITECTURAL/DESIGNER DRAWINGS FOR MILLWORK, FURNITURE, SCREENS, COMPONENTS (IE. TV, DRINKING FOUNTAIN, ETC.) FOR REQUIREMENTS.
- BRING TO THE ATTENTION OF THE ARCHITECT / INTERIOR DESIGNER AND ENGINEER ANY CONFLICTS OR REQUIRED CLARIFICATION.
- FAILING TO COORDINATE, THE CONTRACTOR WILL MODIFY THE INSTALLATION AT HIS EXPENSE, IF REQUIRED.

DRAWING LIST	
DWG No.	DESCRIPTION
E1	ELECTRICAL - LEGEND, DRAWING LIST, DETAILS, AND SPECIFICATIONS
E2	ELECTRICAL - SITE PLAN LIGHTING

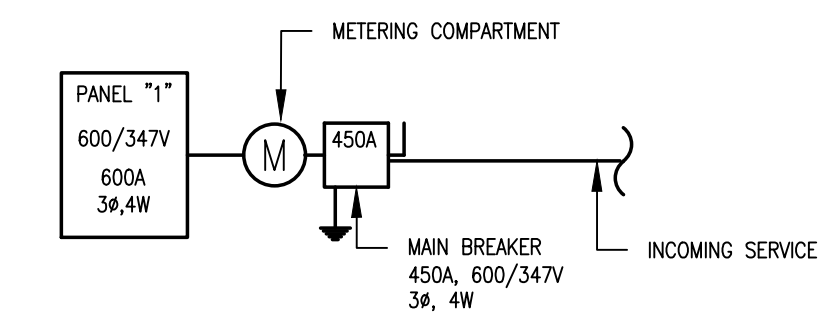
LIGHTING LEGEND	
SYMBOL	DESCRIPTION
⊙	POLE MOUNTED LIGHT FIXTURE, TYPE AS INDICATED



1 BASE DETAIL FOR EXTERIOR LIGHT STANDARD
E1 N.T.S.



2 DIRECT BURIED CONDUIT DETAIL
E1 N.T.S.



3 PARTIAL SINGLE LINE DIAGRAM
E1 N.T.S.

Client

DATE	REVISION	REF
2021-06-02	ISSUED FOR TENDER	0
2021-05-10	ISSUED FOR 100% REVIEW	1
2021-05-05	ISSUED FOR 100% REVIEW	0
2021-04-29	ISSUED FOR SITE PLAN APPROVAL	1
2021-04-28	ISSUED FOR SITE PLAN APPROVAL	0
2021-04-26	ISSUED FOR REVIEW	1
2021-04-16	ISSUED FOR REVIEW	0

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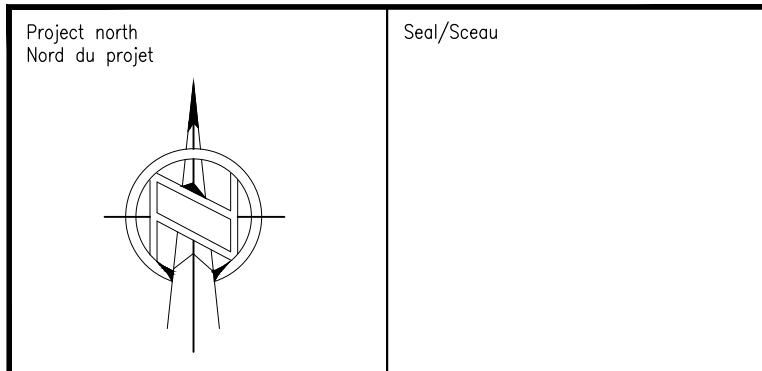
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L'INGÉNIEUR DÉCLINE TOUTE RESPONSABILITÉ DÉCOULANT DE PROBLÈMES FAISANT SUITE AU NON RESPECT DES PLANS, DES ET DE L'INTENTION DU CONCEPT OUTILS INDIQUÉ OU DE TOUTS LES PROBLÈMES POUVAUT RÉSULTER DU DEFAUT D'OBTENIR ET / OU DE SUIVRE LES CONSEILS DE L'INGÉNIEUR EN CE QUI CONCERNE LES ERREURS, OMISSIONS, INCONSISTENCES, AMBIGUITÉS OU CONFLITS ALLÉGUÉS.

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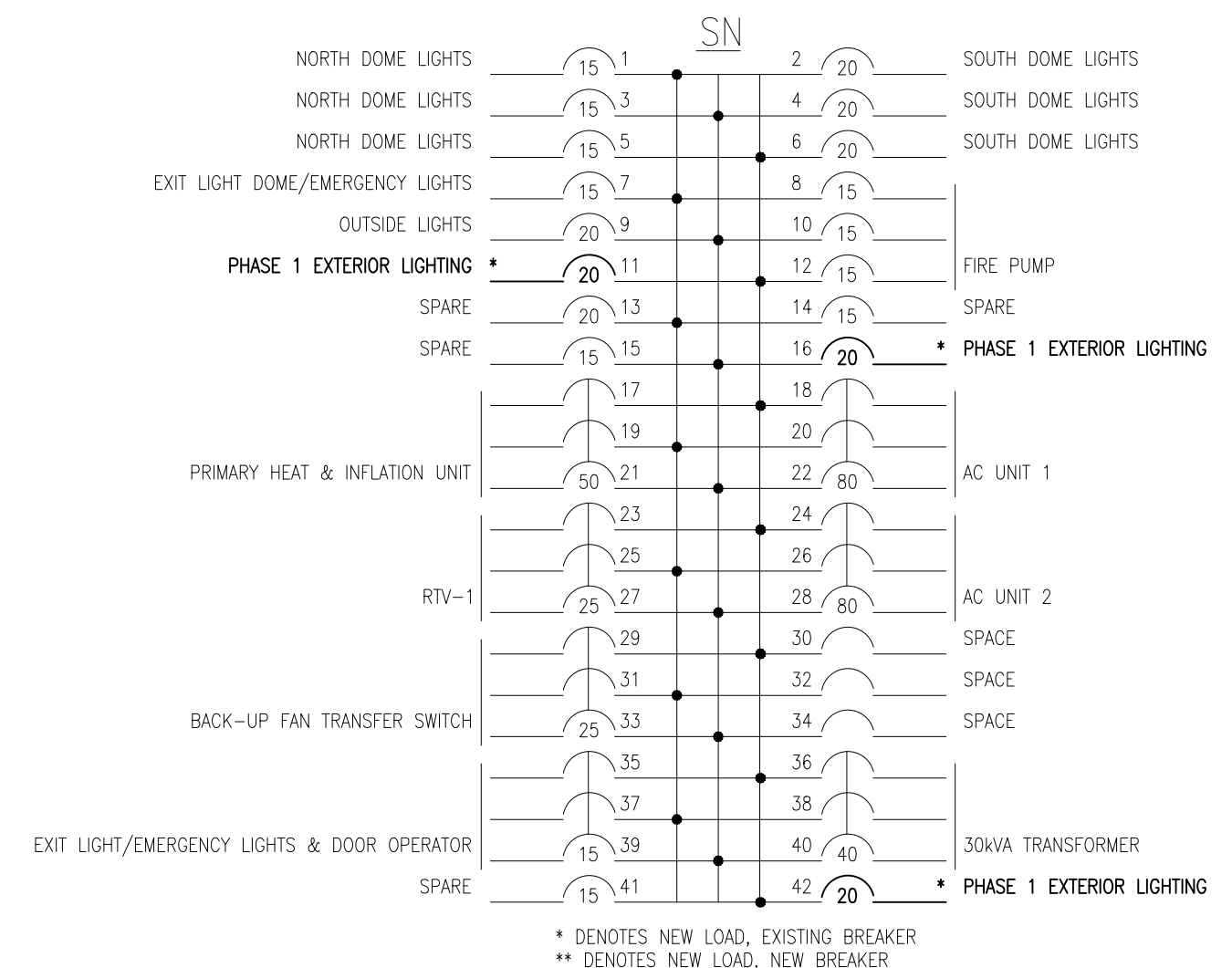


Project/Projet
RUSSELL RECREATION COMPLEX PARK PROJECT

Drawing title/Titre du dessin
ELECTRICAL - LEGEND, DRAWING LIST, DETAILS, AND SPECIFICATIONS

Scale Échelle	AS NOTED	Project no./No. du projet 2021-141
Design by Conçu par	R. BOVIN	Drawing/Dessin E1
Drawn by Dessiné par	N. OUDERKIRK	OF 2
Reviewed by Examiné par	R. BOVIN	
Date	MAY 2021	Revision no: Acad file/Fichier:

EXISTING PANEL 1	
VOLTAGE	600/347V
PHASE	3Ø
WIRE	4W
RATING AMPS	600A
TRIM	SURFACE



LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS PER FIXTURE			VOLT	MOUNTING HEIGHT	REMARKS
			QTY	TYPE	WATTS			
E	EXISTING PARKING LOT LIGHTING	SIGNIFY - GARDCO	1	LED	155W	4000K	347V	EXISTING
1	NEW PARKING LOT AREA LIGHTING	ECF-S-48L-1A-NW-G2-3	1	LED	155W	4000K	347V	C/W SPILL CONTROL HOUSING SHIELD AS REQUIRED
2	PATHWAY LIGHTING	SIGNIFY - GARDCO	1	LED	106.7W	4000K	347V	C/W SPILL CONTROL HOUSING SHIELD AS REQUIRED
3	BASKETBALL/TENNIS COURT LIGHTING	SIGNIFY - GARDCO	1	LED	416W	4000K	347V	C/W SPILL CONTROL HOUSING SHIELD AS REQUIRED

NOTES:
1. ALTERNATE LIGHT FIXTURES C/W DETAILED PHOTOMETRIC REPORT MAY BE SUBMITTED FOR REVIEW

DRAWING NOTES

1. TYPICAL: PROVIDE NEW LIGHT FIXTURE, TYPE AS INDICATED. CONNECT TO EXISTING LEVITON EZ-MAX PLUS DIGITAL PROGRAMMABLE TIME CLOCK FOR EXTERIOR LIGHTING CONTROL. PROVIDE NEW LEVITON L-30 RELAYS AND CONTACTORS AS REQUIRED. REFER TO LIGHTING FIXTURE SCHEDULE AND DETAILS 1 & 2 ON DRAWING E1 FOR ADDITIONAL INFORMATION.

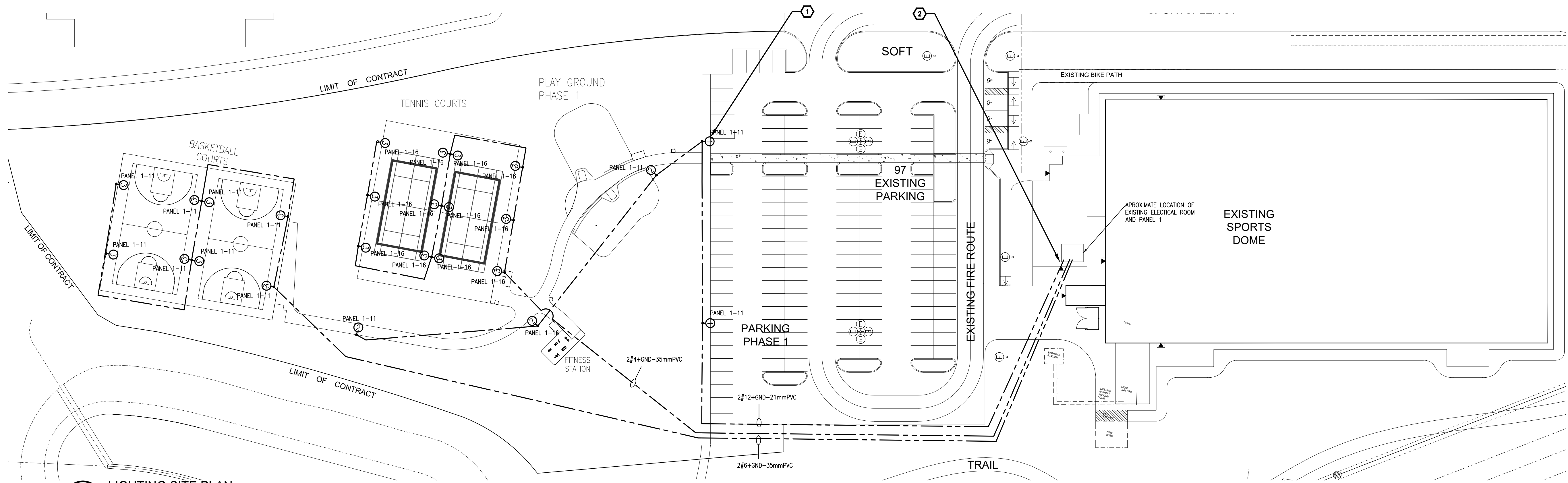
2. SERVICE TO RUN INSIDE THE BUILDING IN EMT CONDUIT. PROVIDE CHASE AND TRANSITION AT EXTERIOR WALL. CORE DRILL AND REINSTATE INSULATION AS REQUIRED.

GENERAL NOTES

1. COORDINATE EXACT LOCATION OF FIXTURES WITH LANDSCAPE AND ARCHITECTURAL PLANS.

2. COORDINATE EXACT LOCATION OF CONDUIT ROUTING REQUIREMENTS ON SITE.

3. COORDINATE BURIED SERVICES WITH ALL OTHER SERVICES. REFER TO RELATED SITE SERVICES DRAWINGS.



1 LIGHTING SITE PLAN
E2 1:500

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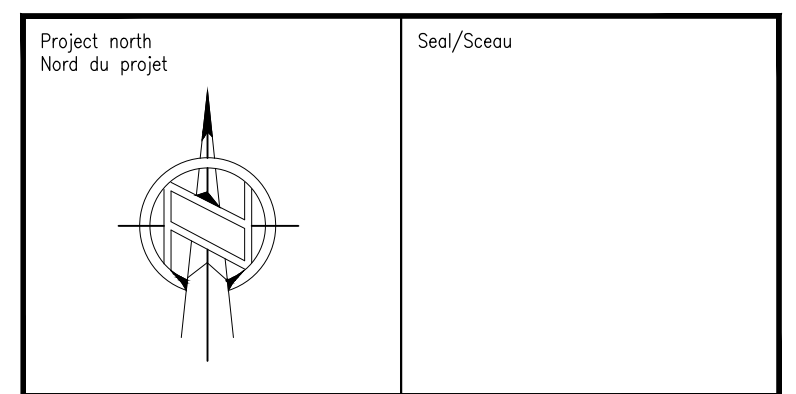
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Project/Projet
RUSSELL RECREATION COMPLEX PARK PROJECT

Drawing title/Titre du dessin
ELECTRICAL - SITE PLAN LIGHTING

Scale/Echelle	AS NOTED	Project no./No. du projet	2021-141
Design by/Conçu par	R. BOVIN	Drawing/Dessin	E2
Drawn by/Dessiné par	N. OUDERKIRK		
Reviewed by/Examiné par	R. BOVIN		OF 2
Date	MAY 2021	Revision no.	Acad file/Fichier: