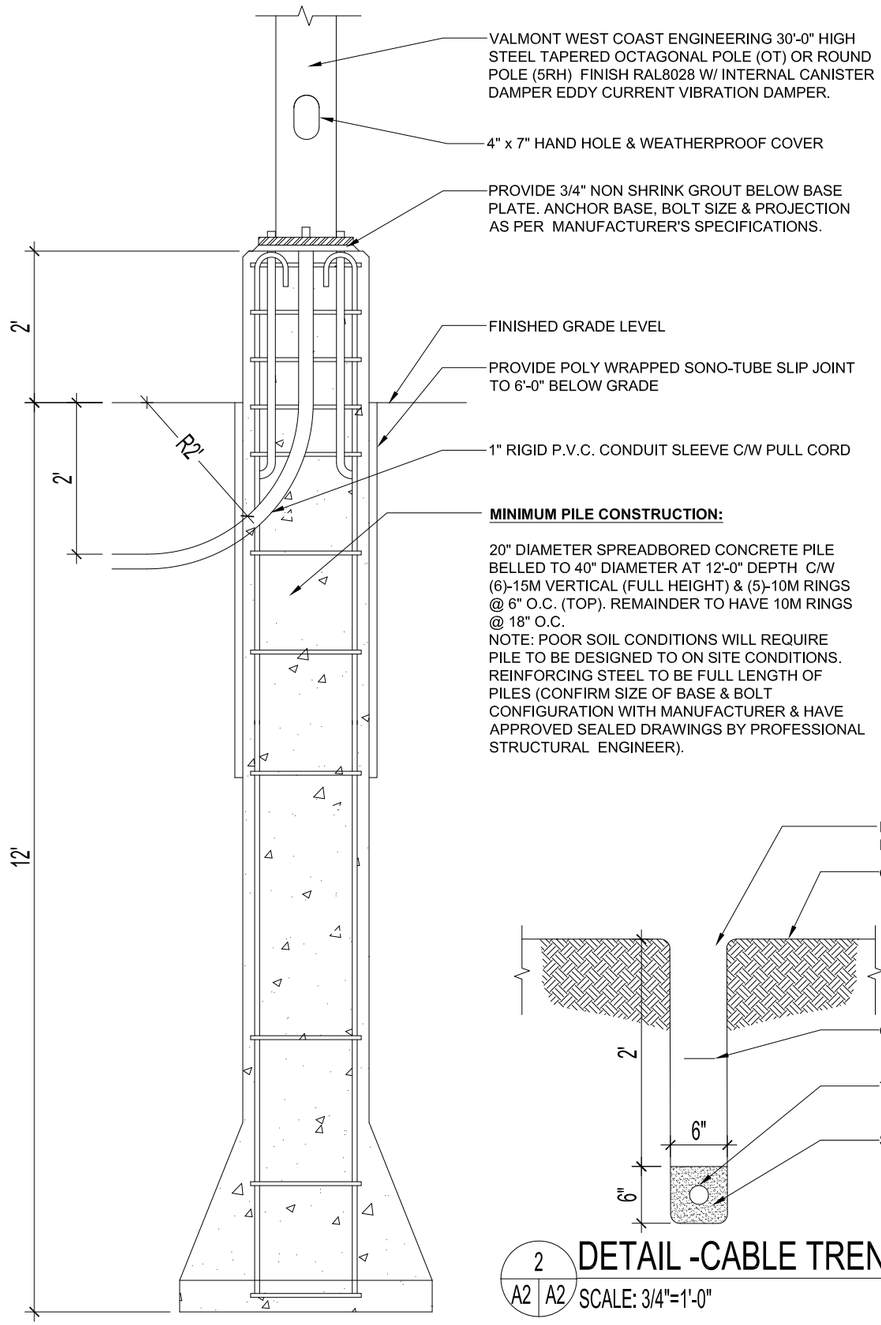

MINIMUM PILE CONSTRUCTION:

20" DIAMETER SPREADBORED CONCRETE PILE BELLED TO 40" DIAMETER AT 12'-0" DEPTH C/W (6)-15M VERTICAL (FULL HEIGHT) & (5)-10M RINGS @ 6" O.C. (TOP). REMAINDER TO HAVE 10M RINGS @ 18" O.C.
NOTE: POOR SOIL CONDITIONS WILL REQUIRE PILE TO BE DESIGNED TO ON SITE CONDITIONS. REINFORCING STEEL TO BE FULL LENGTH OF PILES (CONFIRM SIZE OF BASE & BOLT CONFIGURATION WITH MANUFACTURER & HAVE APPROVED SEALED DRAWINGS BY PROFESSIONAL STRUCTURAL ENGINEER).

1 / A2 | A2 — DETAIL -LUMINAIRE POLE BASE
SCALE: 1/2"=1'-0"

2 / A2 | A2 — DETAIL -CABLE TRENCH
SCALE: 3/4"=1'-0"

REINFORCED CONCRETE PILE BASES

2.0 CONCRETE BASES

1. MATERIALS FOR CONCRETE PILES SHALL BE AS SPECIFIED ON THE DRAWING & IN ACCORDANCE WITH CW 2160-R4 OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. EXCAVATION FOR PILES SHALL BE DONE BY AUGERING TO SIZES SHOWN. IF CASING IS REQUIRED TO PREVENT THE SIDES OF THE AUGERED HOLE FROM SLOUGHING IN, CASING SHALL BE SUPPLIED & INSTALLED AT NO COST TO THE CITY. THE CASING DIAMETER SHALL NOT BE LESS THAN 3/4" SMALLER THAN THE PILE EXCAVATION.
3. MATERIALS FOR CONCRETE PILES SHALL BE AS SPECIFIED ON THE DRAWING & IN ACCORDANCE WITH CW 2160-R4 OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
4. THE PILE CONCRETE SHALL BE CAST NO LATER THAN 24 HOURS AFTER EXCAVATION HAS BEEN COMPLETED.
5. PILE REINFORCEMENT SHALL BE SUPPLIED & INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION DRAWING DETAIL.
6. THE PILE EXCAVATION SHALL BE KEPT DRY AT ALL TIMES & WATER PUMPED OUT IF IT ACCUMULATES.
7. CONCRETE PLACING SHALL BE CONTINUOUS FROM TOP OF PILE & PUDDLING OR RODDING CARRIED CONSTANTLY TO BRING AIR BUBBLES TO THE SURFACE & PRODUCE A UNIFORM STRUCTURE. REMOVE SONOTUBE AFTER CURING OF CONCRETE.
8. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 HOURS (WORKING DAYS) NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO ANY CONCRETE PLACEMENT TO ALLOW FOR THE INSPECTION OF PILE DEPTHS & DIAMETERS, STEEL REINFORCING SIZES & LOCATIONS TO ENSURE ALL PILE HOLES ARE DRY. IF NECESSARY, PUMP HOLES DRY PRIOR TO CONCRETE PLACEMENT.
9. THE PORTION OF THE PILE TO BE EXPOSED ABOVE THE FINISHED GRADE SHALL BE FORMED WITH SONOTUBE. THE TOP OF THE PILE SHALL BE FINISHED TO A FLAT SMOOTH SURFACE TO THE DESIGN ELEVATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING GOOD ALL AREAS DAMAGED BY HIS OPERATIONS IN CONNECTION WITH THIS CONTRACT.
11. THE CONTRACTOR SHALL SUBMIT FOR REVIEW COPIES OF THE PILE INSPECTION REPORT FOR THE CONCRETE PILING WITH A REGISTERED PROFESSIONAL STRUCTURAL ENGINEERS STAMP TO THE CONTRACT ADMINISTRATOR.

NOTES:

1. CONCRETE BASES SHALL BE TYPE 50 SULPHATE RESISTANT HAVING A 28 DAY COMPRESSIVE STRENGTH OF 30MPa & IN ACCORDANCE WITH CW 2160-R4. ANCHOR PLATES & BASE PLATES SHALL BE STANDARD STRUCTURAL STEEL SECTIONS MEETING THE CURRENT CITY OF WINNIPEG STANDARDS & OF THE DIMENSIONS AS INDICATED ON THE DRAWINGS & DETAILS.
2. BACKFILL TRENCH WITH CLEAN EARTH FILL TO 4" BELOW THE SURFACE. BACKFILL WITH 3" TOPSOIL & SOD TO MATCH SURFACE GRADE.
3. BACKFILL TRENCH AT ASPHALT SURFACE WITH 3/4" DOWN CRUSHED LIMESTONE COMPACTED @ 6" LIFTS. TOP WITH 2" ASPHALT SURFACE TO MATCH EXISTING.

ELECTRICAL WORK:

1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE, PROVINCIAL, MUNICIPAL & OTHER CODES, RULES & REGULATIONS.
2. PREPARE & SUBMIT TO THE PROPER AUTHORITIES ALL NECESSARY PERMITS & PAY ALL APPLICABLE FEES.
3. UPON COMPLETION & BEFORE FINAL PAYMENT IS MADE, PRESENT TO THE CONTRACT ADMINISTRATOR A CERTIFICATE OF APPROVAL FOR ALL ELECTRICAL WORK FOR THE INSPECTION DEPARTMENT HAVING JURISDICTION.
4. ELECTRICAL WORK: SUPPLY & INSTALL (2) - 4 POLE CONTACTORS WITH 30A RATING, (2) CONTACTOR COILS IN NEMA 1 ENCLOSE C/W (2) - 2 SINGLE POLE TOGGLE SWITCH (SPEC. GRADE) & A 24 HOUR, 7 DAY TIMER CLOCK TO OPERATE CONTACTORS. WHICH SWITCHES RINK LIGHTS (RECOMMENDED MANUFACTURERS: ALLEN-BRADLEY, SQUARE D, SIEMENS OR APPROVED EQUAL).
5. 120V-277V: FLD-EHO40HV12EULBZ100040K C/W EHO-UNV ADAPTOR DESCRIPTION: CREE EDGE HIGH OUTPUT FLOOD -40- DEGREE FLOOD OPTIC -ADJ. TENON MOUNT -120 LEDS / 421 WATT / 35,832 LUMENS - 120V-277V UNV DRIVER -BRONZE FIXTURE FINISH -1000MA DRIVER -4000K.

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7. ALL NEW LIGHT FIXTURES SHALL BE AIMED TO SUIT SITE CONDITIONS.

LIGHT POLE SYSTEMS:

1. SHALL BE 30'-0' HIGH STEEL TAPERED ROUND POLES C/W STANDARD TOP TENOM AS MANUFACTURED BY VALMONT WEST COAST ENGINEERING 30'-0" HIGH STEEL TAPERED OCTAGONAL POLE (OT) OR ROUND POLE (5RH) FINISH RAL8028 W/ INTERNAL CANISTER DAMPER OR APPROVED EQUAL.
2. POLES SHALL BE LOCATED AS PER THE CONSTRUCTION DRAWINGS. EXACT LOCATIONS OF THE LIGHT POLES SHALL BE INSPECTED & APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO EXCAVATION FOR NEW CONCRETE PILES.
3. MOUNT POLES ON CONCRETE BASES PLUMB & TRUE, UTILIZING METAL SHIMS AS REQUIRED. ENSURE COMPLETE ELECTRICAL CONNECTION & SECURELY ANCHOR POLES TO CONCRETE PILES.

V:\A-CAD\ARCHIVE\SPECS\HOCKEY RINK

THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4			SHEET TITLE LUMINAIRE POLE BASE DETAIL CABLE TRENCH DETAIL & SPECIFCATIONS BELL PILE		PROJECT STANDARD CONSTRUCTION DETAILS FOR OUTDOOR HOCKEY RINKS	
DRAWN BY: MMK/SMD/LMC	DESIGNED BY:	CHECKED BY: B.KAZUN	APPROVED BY: B.KAZUN	DATE: 2016.01.06 eFILE: HOCKEY RINKS_2016.dwg	SCALE: AS SHOWN PROJECT No:	SHEET No: A2

DRAWING SHEET SIZE: ANSI "B" (11"x17") PLOT 1:1