

GENERAL

-DRAWING SHOULD BE USED AS A GENERAL GUIDE. EXACT SIZE, ALONG WITH STYLE AND LOCATION OF VEHICLE GATES, ACCESS, PLAYER'S GATES & PLAYER'S BOXES LOCATION, GRADING AND LIGHTING REQUIREMENTS TO BE SHOWN ON PROJECT SITE PLAN.

APPLICABLE CITY OF WINNIPEG STANDARD SPECIFICATIONS

-CW 3110-R5 -SUB-GRADE, SUB-BASE & BASE COURSE CONSTRUCTION CW 3410-R5

-ASPHALT CONCRETE PAVEMENT WORK CW 3170-R5-EARTHWORK &

HOCKEY RINK AND PLAYER'S BOXES

- -ALL POST UPRIGHTS TO BE MINIMUM 3 1/2" Ø SCHEDULE 40 STEEL PIPES
- -UPRIGHT POSTS TO BE LOCATED AS SHOWN ON THE DRAWINGS. POSTS TO BE PUSHED INTO GROUND & SHALL BE PLUMB IN ALL DIRECTIONS.
- -VEHICLE GATES (OPTION 'B') REQUIRES POST UPRIGHTS ENCASED IN CONCRETE (GATE ONLY).
- -ALL LUMBER & PLYWOOD TO BE PRESSURE TREATED (P.T.). -LUMBER WITH LOOSE KNOTS, SURFACE IMPERFECTIONS ÓR
- SPLITS WILL NOT BE ACCEPTED. -ALL FASTENERS TO BE GALVANIZED. NAILS TO BE 3 1/2" ARDOX & CLINCHED. FASTEN ARDOX NAILS WITH THE GRAIN.
- -ALL CARRIAGE BOLTS, BARREL BOLTS, NUTS & WASHERS TO BE CADMIUM PLATED.
- -CARRIAGE BOLTS TO BE USED TO FASTEN WOOD FRAMING TO SLEEVES & GATE HARDWARE.
 -ALL BOLT LOCATIONS TO BE PRE-DRILLED.
- -NUTS ON GATE HARDWARE TO BE NON-REMOVABLE. -TOP RAIL OF RINK END BOARDS TO BE 2" x 4" RIPPED FROM 2" x 8" PRESSURE TREATED LUMBER
- -ALL HARDWARE TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- -PLAYER'S BOXES TO BE CONSTRUCTED SEPARATELY FROM
- -NOTCH TOP PLATE OF RINK BOARDS TO FIT PLAYER'S BOX LIPRIGHTS
- -FLOOR OF PLAYER'S BOXES TO BE NOTCHED AROUND STEEL POSTS. FLOOR TO BE FLUSH WITH BACK OF RINK

CHAIN LINK SCREENING

- -CHAIN LINK SCREENING SHALL BE LOCATED AT BOTH ENDS OF RINKS AS SHOWN
- -ALL CHAIN LINK SCREENING TO BE 9 GAUGE STEEL WIRE WOVEN INTO 2" MESH. TOP & BOTTOM SELVAGE SHALL
- -TOP RAILS FOR SCREENING SHALL BE 1 1/2" DIAMETER. RAILS TO BE HAMMERED FLAT & WELDED TO **UPRIGHTS**
- -ALL WELDS TO BE SMOOTH & CONTINUOUS.
- -POSTS & RAILS TO BE CLEANED OF ALL WELDING RESIDUE. APPLY GALVALUME ACCORDING TO MANUFACTURER'S SPECIFICATIONS
- -MESH TO BE ATTACHED TO UPRIGHTS WITH WIRE TIES AT 1'-0" O.C.
- -METAL STRAPPING TO BE INTERWOVEN IN MESH & SECURED TO TOP RAIL WITH SCREWS AT 8" O.C.
- STRAPPING TO BE CONTINUOUS POST TO POST. -CHAIN LINK SCREENING TO BE FLUSH WITH FRONT OF
- -CHAIN LINK CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS CW 3550-R5.

MATERIAL SPECIFICATION SUMMARY

ROOFING:

SBS MODIFIED BITUMEN MEMBRANE ROOFING / SOPREMA

1.0 STORAGE AND DELIVERY

- 1.1 ONLY SKILLED & CERTIFIED TRADE PERSONS, OFFICIALLY EMPLOYED BY A ROOFING CONTRACTOR OPERATING ADEQUATE & NECESSARY EQUIPMENT, WILL BE AUTHORIZED TO PERFORM ALL ROOFING WORK.
- 1.2 AT ALL TIMES, MATERIALS WILL BE ADEQUATELY PROTECTED & STORED IN A DRY & PROPERLY VENTILATED AREA. AWAY FROM ANY WELDING FLAME OR SPARK & SHELTERED FROM THE ELEMENTS. IF ROLLS CANNOT BE STORED IN A HEATED ENVIRONMENT, THEY MAY BE PRE-CONDITIONED BEFORE INSTALLATION. CONSULT SOPREMA'S "MATERIAL INSTALLATION GUIDE" ON MEMBRANE APPLICATION PROCEDURES.
- 1.3 MATERIALS DELIVERED IN ROLLS WILL BE CAREFULLY STORED UPRIGHT; FLASHING WILL BE STORED TO AVOID CREASING, BUCKLING, SCRATCHES OR ANY OTHER POSSIBLE DAMAGE.

2.0 PRODUCTS

- 2.1 PRIMER: ELASTOCOL FR BY SOPREMA OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- ADHESIVES: COLD ADHESIVE-MASTIC COMPOSED OF A BITUMINOUS BINDER, ADDED TO BONDING AGENTS & SOLVENTS. SPECIFIED PRODUCT: SOPRACOLLE 300 BY SOPREMA OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- OVERLAY: MULTI-PLY, SEMI-RIGID ASPHALTIC ROOFING SUBSTRATE BOARD. SPECIFIED PRODUCT: SOPRABOARD BY SOPREMA OR APPROVED EQUAL IN ACCORDANCE WITH
- ROOFING MEMBRANE REINFORCEMENT, BASE SHEET FLASHING & CAP SHEET: NON-WOVEN POLYESTER & GLASS GRID. MIX OF SELECTED BITUMEN & SBS POLYMER. SPECIFIED PRODUCT: SOPRALENE FLAM 180 OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- COLOUR: AS SELECTED BY CONTRACT ADMINISTRATOR.
- FLEXIBLE MEMBRANE FOR EXPANSION JOINTS: SPECIFIED PRODUCT: SOPRAJOINT MEMBRANE BY SOPREMA OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- WATERPROOFING MASTICS: SPECIFIED PRODUCT: SOPRAMASTIC 200 BY SOPREMA OR APPROVED EQUAL IN ACCORDANCE WITH B7.

3.0 EXECUTION

- SURFACE EXAMINATION & PREPARATION MUST BE COMPLETED IN CONFORMANCE WITH RECOMMENDATIONS IN THE SOPREMA MANUAL
- DO NOT BEGIN ANY WORK BEFORE SURFACES ARE SMOOTH, DRY, EXEMPT OF DEBRIS.
- NO MATERIALS WILL BE INSTALLED DURING RAIN OR 3.3 SNOWFALL.
- PREPARE SURFACES & COMPLETE WATERPROOFING WORK IN CONFORMANCE WITH SOPREMA'S REQUIREMENTS & THE "MATERIAL INSTALLATION GUIDE"
- 3.5 APPLICATION OF ASPHALT PRIMER: WHEN A TORCH GRADE MEMBRANE IS USED ON WOOD SUBSTRATE, SURFACE MUST BE PRIMED WITH ELASTOCOL FR. ALL SURFACES TO BE PRIMED MUST BE FREE OF DUST OR ANY RESIDUE.
- SHEET METAL FLASHING & TRIM. UNLESS OTHERWISE SPECIFIED, NAILS, STAPLES, SCREWS, BOLTS, WASHERS & ALL OTHER METAL FASTENERS, WILL BE MADE OF COMPATIBLE & RUST-PROOF METALS.
- CAULK ALL SHEET METAL JOINTS & AT ALL JUNCTIONS WITH OTHER MATERIALS.

GEO-TEXTILE FABRIC SPECIFICATIONS:

- 1. GEO-TEXTILE: SHALL CONSIST OF A NON-WOVEN GEO-TEXTILE FABRIC, USED AS A SEPARATOR BETWEEN THE CRUSHED LIMESTONE SUB-BASE MATERIAL & THE COMPACTED SUB-GRADE. THE NON-WOVEN GEO-TEXTILE MATERIAL FOR CONSTRUCTION SHALL BE MIRAFI 600X OR APPROVED EQUAL IN ACCORDANCE WITH B7.
- ALL WORK RELATED TO THE GEO-TEXTILE STORAGE, HANDLING & INSTALLATION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
- PRIOR TO LAYING THE FABRIC, THE SUB-GRADE MATERIAL SHALL BE CLEARED OF ALL UNSUITABLE MATERIAL & COMPACTED TO PROVIDE A SMOOTH UNIFORM SURFACE.
- THE FABRIC SHALL BE EVENLY LAID IN ORDER TO ALLOW CONFORMITY TO THE COMPACTED SUB-GRADE. FOLDS & WRINKLES IN THE FABRIC SHALL BE AVOIDED. UPON COMPLETION OF THE INSTALLATION OF THE FABRIC, CRUSHED SUB-BASE MATERIAL SHALL BE INSTALLED.
- MATERIALS PLACED IN THIS PROJECT SHALL BE SUBJECT TO TESTING & APPROVAL BY THE CONTRACT ADMINISTRATOR. THE CONTRACT ADMINISTRATOR RESERVES THE RIGHT TO REJECT ANY MATERIALS OR WORK WHICH ARE NOT IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION.

SHUTTER CONSTRUCTION:

- ALL FASTENERS TO BE GALVANIZED.
- SCREWS TO BE 3" WITH 1 1/2" CLEAR SHANK & CADMIUM PLATED.
- ALL BOLTS, NUTS & WASHERS TO BE CADMIUM PLATED.
- ALL BOLT LOCATIONS TO BE PRE-DRILLED.
- ALL HARDWARE TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- HEAVY DUTY GALVANIZED 6" STRAP LENGTH TEE-HINGES (3 PER SHUTTER) TO BE STANLEY SC908BP.
- HEAVY DÚTY UTILITY 1/2" DIAMETER BARREL BOLT (3 PER SHUTTER) ASSEMBLY BY PENNER DOORS #1419 C/W PADLOCKS (3 PER SHUTTER).

-INSIDE OF RINK BOARDS & ENTIRE PLAYER'S BOXES SHALL BE PAINTED WITH TWO (2) COATS OF WHITE STAIN FINISH C/W GAME LINES (RED & BLUE).

-PLAYER'S /PENALTY BOX SHUTTERS -PAINT STEEL SAFETY & STEEL BAR SLOT PLATES YELLOW.

| Winnipeg | THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4 | | | SHEET TITLE SPECIFICATIONS | | PROJECT STANDARD CONSTRUCTION DETAILS FOR OUTDOOR HOCKEY RINKS | |
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| DRAWN BY: | | DESIGNED BY: | CHECKED BY: | APPROVED BY: | DATE: 2018.06.08 | SCALE: AS SHOWN | SHEET No: |
| MMK/SMD/LMC | | B.KAZUN B.KAZUN | eFILE: HOCKEY RINKS_2017.dwg | PROJECT No: | A9 | | |