NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
   ENGINEERING ADVICE MAY BE REQUIRED.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE
   AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL
   AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO
   DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE
S300K POWERDRAIN - LOAD CLASS A

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE
POLYMER CONCRETE S300K CHANNEL SYSTEM WITH
DUCTILE IRON EDGE RAILS AS MANUFACTURED BY
ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM
POLYESTER RESIN POLYMER CONCRETE WITH AN
INTEGRALLY CAST-IN DUCTILE IRON EDGE RAIL.
MINIMUM PROPERTIES OF POLYMER CONCRETE WILL
BE AS FOLLOWS:
COMPRESSIVE STRENGTH: 14,000 PSI
FLEXURAL STRENGTH: 4,000 PSI
TENSILE STRENGTH: 1,500 PSI
WATER ABSORPTION: 0.07%
FROST PROOF YES
DILUTE ACID AND ALKALI RESISTANT YES
B117 SALT SPRAY TEST COMPLIANT YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL
INTERNAL WIDTH WITH A 14.2" (390mm) OVERALL
WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL
INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL
CHANNELS SHALL BE INTERLOCKING WITH A
MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY
ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR
PARTIAL SYSTEM DESIGN AND/OR IMPROPER
INSTALLATION WILL VOID ANY AND ALL WARRANTIES
PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER
LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE
SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD
CLASS SPECIFIED AND INTENDED APPLICATION.
GRATES SHALL BE SECURED USING POWERLOK®
BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE
SHALL BE CERTIFIED TO MEET THE SPECIFIED EN
1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED
IN ACCORDANCE WITH THE MANUFACTURER'S
INSTRUCTIONS AND RECOMMENDATIONS.