

1 DRAINAGE PLAN - BUILDING 16 EXTERIOR
1/8" = 1'-0"

NOTES:

- IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
- A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
- THE FINISH LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
- REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.
- ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI.
- MAXIMUM SPACING OR SCORED JOINTS SHALL BE 15' (4572MM).
- 1/2" (13MM) THICK EXPANSION JOINTS SHALL BE LOCATED AT TANGENT POINTS IN CURB RETURN, TRANSITIONS, AND AT A MAXIMUM OF 60' (18288MM) INTERVALS. EXPANSION MATERIAL SHALL ALSO BE PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND CURB ACCESS RAMPS. THE 1/2" (13MM) JOINT FILLER SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
- CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
- SINGLE CURBS MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SHIP FORMED.
- ALL EXPOSED EDGES AND HAND TROUZELED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" (6MM) RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.
- FOR REVEALS OF 6" (152MM) TO LESS THAN 8" (203MM).
- FOR REVEALS OF 8" (203MM) TO 10" (254MM).

ACO GRATE DRAIN SECTION

NOTE: SEE DRWG 1049 FOR ALTERNATE CONCRETE SURROUND

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S100K CHANNEL SYSTEM WITH DUCTILE IRON GRATE AND GRATE AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH.

Channels will be manufactured from polymer concrete with an integrally cast ductile iron grate and supplied with ductile iron grates.

The system shall be 4 inches (100mm) nominal inside width with a 6.3 in. (160mm) overall width and a built-in slope of 0.5%. All channels shall be interlocking with a male/female joint. Each channel shall have preformed 4 in. (100mm) round and 8 in. (200mm) oval drill-out on the bottom for vertical connection with underground piping.

The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design should be approved in writing by ACO Polymer Products, Inc.

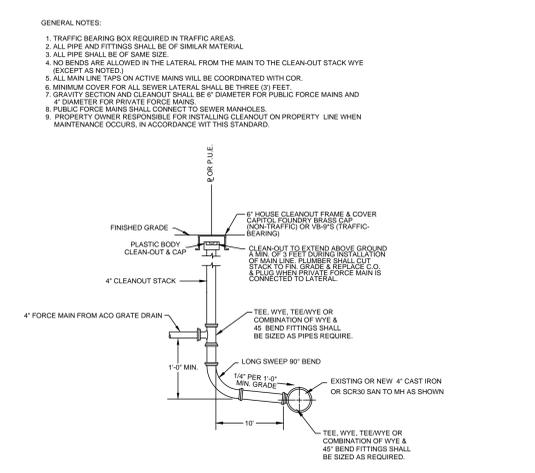
The channel system shall be independently certified to withstand loadings to load class F (219500). Grates shall be secured using "Powerlok" Ballast Locking System. Grate and Locking system shall be fully removable from channel.

Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi; flexural strength between 3600-4500 psi; tensile strength of 1000 psi. The material water absorption rate shall not exceed 0.1% by weight and shall be resistant to prolonged soil exposure, repetitive frost cycles and chemically resistant to dilute acids and alkalis.

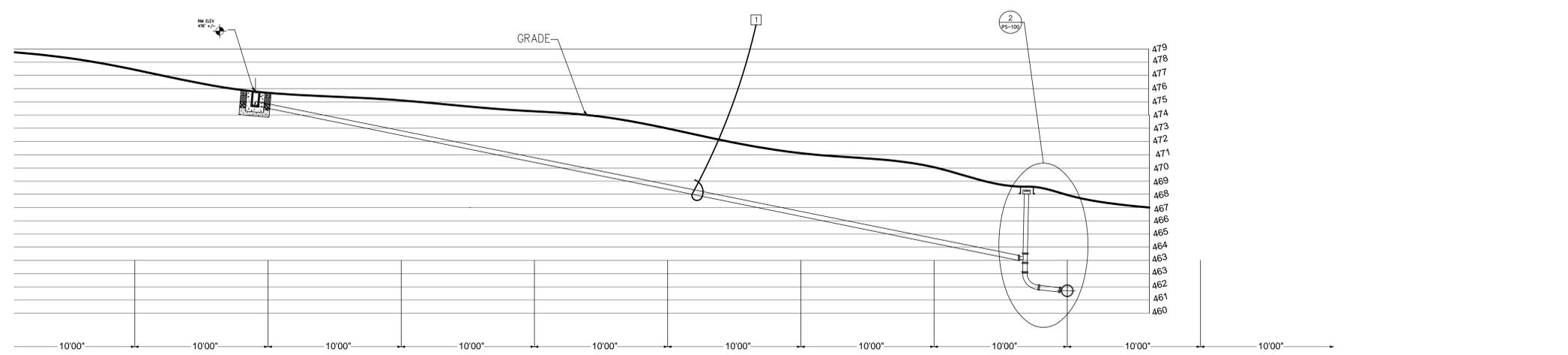
The system shall be installed in accordance with the manufacturer's instructions and recommendations.

KEYED CONSTRUCTION NOTES

- PROVIDE NEW 4" SCR20 STORM DRAIN PIPING FROM NEW ACO GRATE DRAIN TIE IN POINT TO NEW DRAIN CLEAN-OUT. BACKFILL TRENCH PER DETAIL 8/SS-103.
- PROVIDE NEW ACO OR EQUAL STORM GRATE DRAIN SYSTEM IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS AND WITH SPECIFICATIONS. SEE SECTION 3/PS-100.
- PROVIDE STORM DRAIN CLEANOUT SYSTEM IN ACCORDANCE WITH DETAIL 2/PS-100. THE CLEANOUT SWEEP INTO EXISTING 4" SANITARY LATERAL.



2 STORM DRAIN TIE IN TO EXISTING SANITARY MAIN
NTS



3 TRENCH 3 SECTION - SANITARY DRAIN PIPING
1/4" = 1'0"

Revisions	Date	[Company Logo/Information Block]	Drawing Title	Project Title	Date	
			SITE DRAINAGE PLAN DETAILS AND ELEVATIONS	UPGRADE FOR BUILDING 16 SITWORK	05/04/2013	
			Approved: Facility Manager	Building Number 16	Checked CF	Drawn AZH
				Location VAMC SYRACUSE, NY		
						DRAWING NO. PS-100 Dwg. 8 of 11