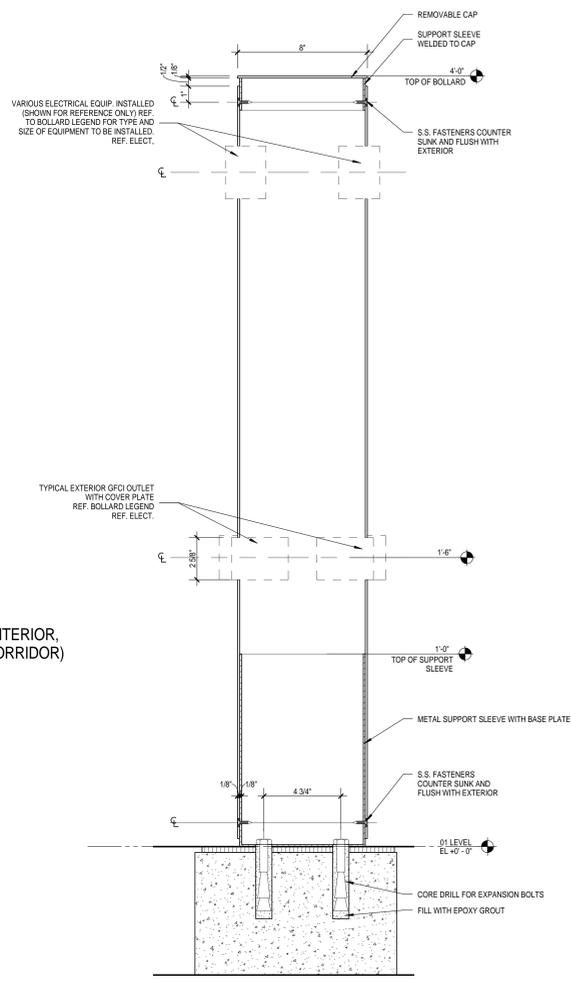


4 BOLLARD PLAN, TYP.  
SCALE: 3" = 1'-0"



2 BOLLARD SECTION, TYP.  
SCALE: 3" = 1'-0"

5 ELECTRICAL BOLLARD MOUNTING HEIGHTS  
SCALE: 1 1/2" = 1'-0"

DOOR NUMBER	C101	C100A	C100B	C102A	C102C
(EXTERIOR)		(INTERIOR, VESTIBULE)		(INTERIOR, CORRIDOR)	(EXTERIOR)
(EXTERIOR)				(INTERIOR, CORRIDOR)	(EXTERIOR)
(INTERIOR)		(EXTERIOR)			(INTERIOR, CORRIDOR)

- ELECTRICAL LEGEND**
- CARD READER
  - BARRIER FREE ACTIVATION SWITCH (DOOR OPERATOR)
  - EXTERIOR LIGHT
  - FIRE ALARM PULL STATION
  - WATER PROOF DUPLEX GFCI OUTLET WITH FLIP COVER
  - DUPLEX OUTLET

3 BOLLARD KEY PLAN LEGEND  
SCALE: 1/2" = 1'-0"



1 LEVEL 01 BOLLARD KEY PLAN  
SCALE: 1/16" = 1'-0"



**SMITHGROUP**  
architecture engineering interiors planning

SMITHGROUP, INC.  
35 EAST WACKER  
SUITE 2200  
CHICAGO, IL 60601  
T 312.641.0770  
F 312.641.6728  
www.smithgroup.com

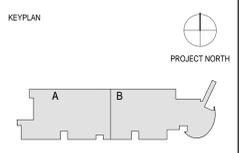
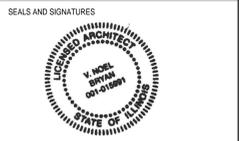
**JJR**  
landscape architecture  
planning  
urban design  
civil engineering  
environmental science

JJR, LLC  
35 EAST WACKER DRIVE  
SUITE 2200  
CHICAGO, ILLINOIS 60601  
312.641.0510 T  
312.641.0668 F  
www.jjr-us.com

**A&E Affiliated Engineers**  
Affiliated Engineers, Inc.  
5802 Research Park Boulevard  
Madison, Wisconsin 53719  
Tel 608.238.2818 Fax 608.238.2814

**Thornton Tomasetti**  
Thornton Tomasetti, Inc.  
330 N. Wabash Avenue, Suite 1500  
Chicago IL 60611-7622  
T 312.596.3000 F 312.596.2001

**TERRA ENGINEERING LTD.**  
225 West Ohio Street, 4th Floor  
Chicago, Illinois 60654  
T 312.467.0123 F 312.467.0220



ISSUED FOR CONSTRUCTION 07/23/12

REV. NO.	DESCRIPTION	BY	APVD	DATE

**Argonne**  
NATIONAL LABORATORY

**FMS**  
Facilities Management Services

PROJECT TITLE: ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY  
PROJECT NO: 22378.000

**BOLLARD PLANS, ELEVATIONS AND DETAILS**

DESIGNED Designer	A&E CAD FILE AS.8.1	FACILITY NO(S)
DRAWN Author	A&E DWG. NO. AS.8.1	
CHECKED Checker	CAD NO.	
PROJECT MANAGER	DWG STATE	
ANL - JESSE ADAMS	BND ORDER	
DATE - 01/26/12		
FACILITY DOCUMENT NUMBER		REV. NO.
<b>J446-101-W-</b>		<b>A5.8.1</b>