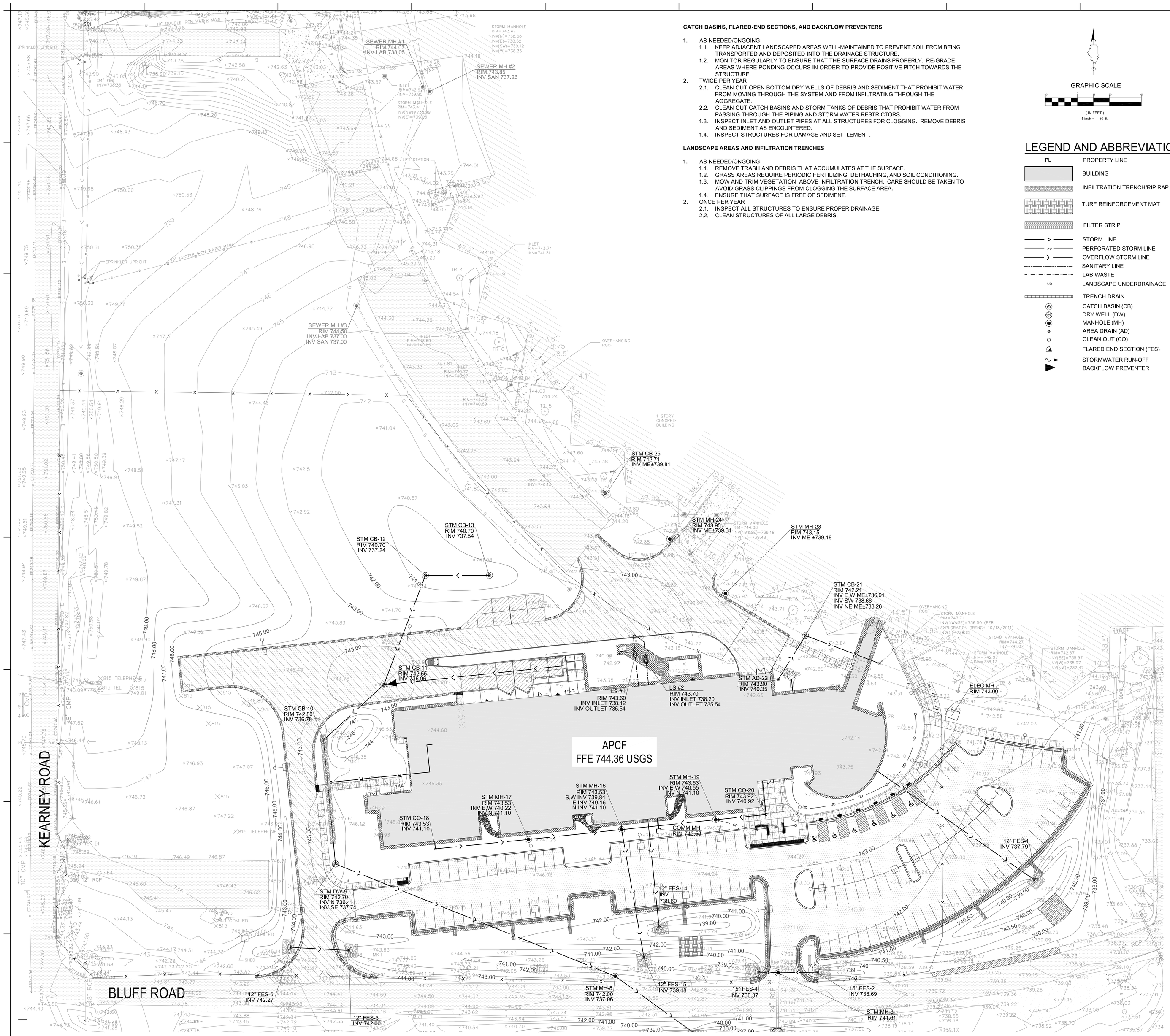


CATCH BASINS, FLARED-END SECTIONS, AND BACKFLOW PREVENTERS

1. AS NEEDED/ONGOING
   - 1.1. KEEP ADJACENT LANDSCAPED AREAS WELL-MAINTAINED TO PREVENT SOIL FROM BEING TRANSPORTED AND DEPOSITED INTO THE DRAINAGE STRUCTURE.
   - 1.2. MONITOR REGULARLY TO ENSURE THAT THE SURFACE DRAINS PROPERLY. RE-GRADE AREAS WHERE PONDING OCCURS IN ORDER TO PROVIDE POSITIVE PITCH TOWARDS THE STRUCTURE.
2. TWICE PER YEAR
   - 2.1. CLEAN OUT OPEN BOTTOM DRY WELLS OF DEBRIS AND SEDIMENT THAT PROHIBIT WATER FROM MOVING THROUGH THE SYSTEM AND FROM INFILTRATING THROUGH THE AGGREGATE.
   - 2.2. CLEAN OUT CATCH BASINS AND STORM TANKS OF DEBRIS THAT PROHIBIT WATER FROM PASSING THROUGH THE PIPING AND STORM WATER RESTRICTORS.
   - 1.3. INSPECT INLET AND OUTLET PIPES AT ALL STRUCTURES FOR CLOGGING. REMOVE DEBRIS AND SEDIMENT AS ENCOUNTERED.
   - 1.4. INSPECT STRUCTURES FOR DAMAGE AND SETTLEMENT.

LANDSCAPE AREAS AND INFILTRATION TRENCHES

1. AS NEEDED/ONGOING
   - 1.1. REMOVE TRASH AND DEBRIS THAT ACCUMULATES AT THE SURFACE.
   - 1.2. GRASS AREAS REQUIRE PERIODIC FERTILIZING, DETHACHING, AND SOIL CONDITIONING.
   - 1.3. MOW AND TRIM VEGETATION ABOVE INFILTRATION TRENCH. CARE SHOULD BE TAKEN TO AVOID GRASS CLIPPINGS FROM CLOGGING THE SURFACE AREA.
   - 1.4. ENSURE THAT SURFACE IS FREE OF SEDIMENT.
2. ONCE PER YEAR
   - 2.1. INSPECT ALL STRUCTURES TO ENSURE PROPER DRAINAGE.
   - 2.2. CLEAN STRUCTURES OF ALL LARGE DEBRIS.

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

LEGEND AND ABBREVIATIONS:

- PL — PROPERTY LINE
- BUILDING
- INFILTRATION TRENCH/RIP RAP
- TURF REINFORCEMENT MAT
- FILTER STRIP
- STORM LINE
- PERFORATED STORM LINE
- OVERFLOW STORM LINE
- SANITARY LINE
- LAB WASTE
- UD — LANDSCAPE UNDERDRAINAGE
- TRENCH DRAIN
- CATCH BASIN (CB)
- DRY WELL (DW)
- MANHOLE (MH)
- AREA DRAIN (AD)
- CLEAN OUT (CO)
- FLARED END SECTION (FES)
- STORMWATER RUN-OFF
- BACKFLOW PREVENTER

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

AEI Affiliated Engineers
Affiliated Engineers, Inc.
5802 Research Park Boulevard
Madison, Wisconsin 53719
Tel 608.238.2616 Fax 608.238.2614

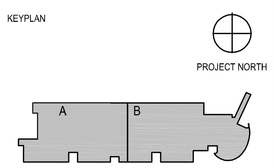
Thornton Tomasetti
Thornton Tomasetti, Inc.
330 N. Wabash Avenue, Suite 1500
Chicago IL 60611-7622
T 312.596.2000 F 312.596.2001

TERRA ENGINEERING LTD.
225 West Ohio Street, 4th Floor
Chicago, Illinois 60654
T:(312)467-0123 F:(312) 467-0220

SEALS AND SIGNATURES

JAMIL BOU-SAAB
062-047537
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

KEYPLAN



REV. NO.	DESCRIPTION	BY	APVD	DATE
0	ISSUED FOR CONSTRUCTION			07/03/12

Argonne NATIONAL LABORATORY

FMS
Facilities Management Services

PROJECT TITLE: ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY

PROJECT NO: 22378.000

DRAWING TITLE

SITE OPERATION AND MAINTENANCE PLAN

DESIGNED: KM	A/E CADD FILE	FACILITY NO(S)
DRAWN: AC/CM	A/E DWG. NO.	
CHECKED: KS	CAD NO:	
PROJECT MANAGER: ANL - JESSE ADAMS	DWG STATE	
DATE - 07.03.2012	BIND ORDER	
FACILITY DOCUMENT NUMBER		REV. NO.

J446-101-W-C6.0.0

Plot Date: