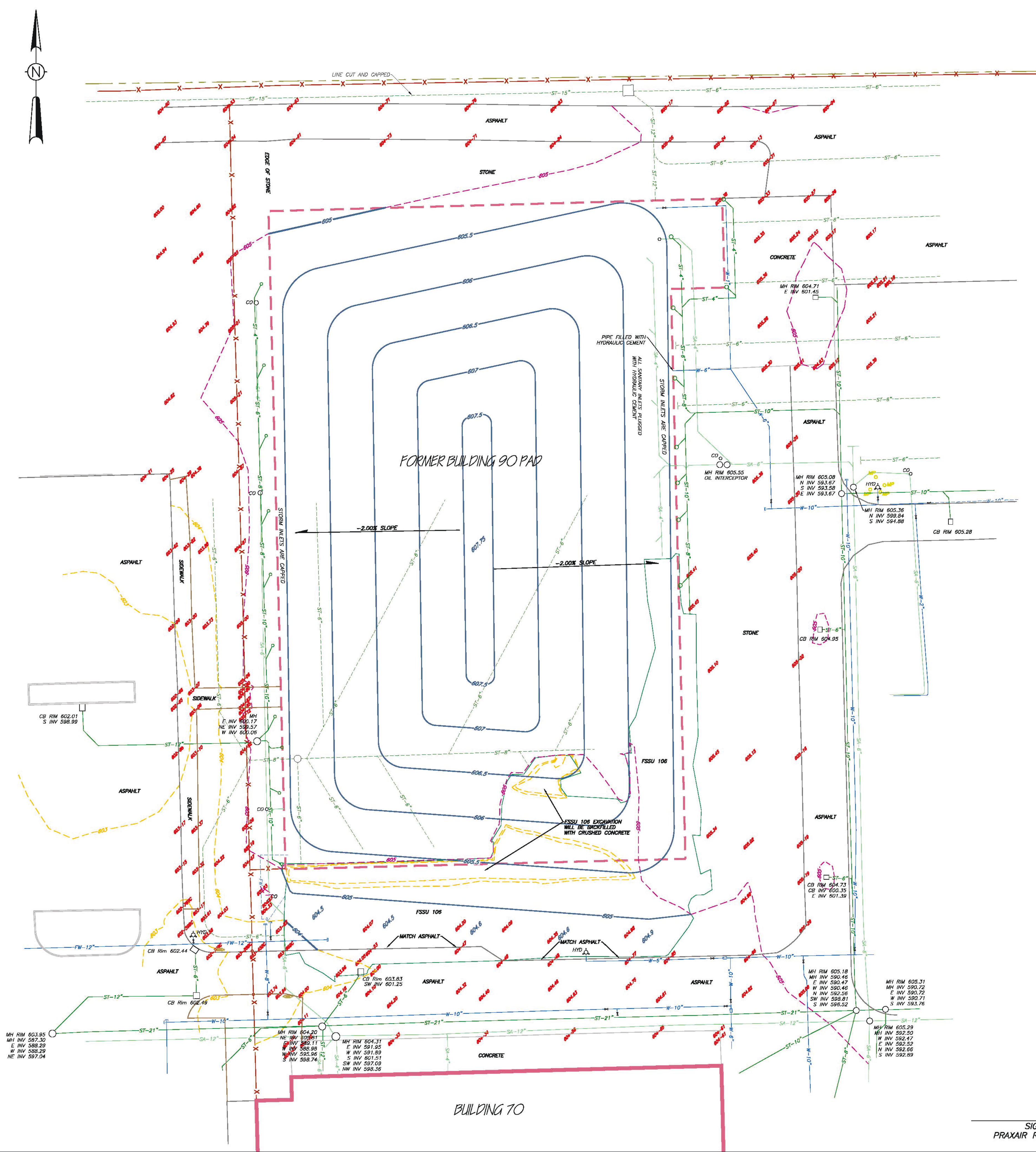


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BACKFILL AND RESTORATION PLAN NOTES

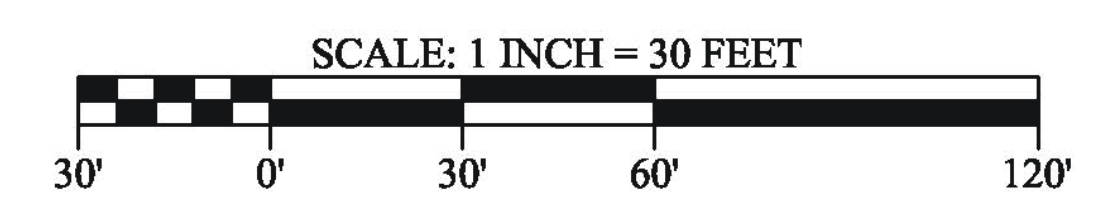
- BACKFILL**
- A. MATERIAL.**
- I. MATERIAL WILL CONSIST OF 2 INCH MINUS PROCESSED CONCRETE. IF PLACE BACK MATERIAL IS EXHAUSTED, APPROVED BACKFILL MATERIAL WILL BE USED TO REACH FINAL GRADE.
  - II. ONLY CONCRETE ORIGINATING FROM THE BUILDING 90 SLAB AND LOADING DOCK WILL BE PROCESSED FOR USE AS PLACE BACK MATERIAL.
- B. PLACEMENT.**
- I. FILL WILL BE PLACED USING LOADERS AND SPREAD WITH A BULLDOZER OR GRADER.
  - II. BACKFILL WILL BE PLACED IN APPROXIMATELY TWELVE TO SIXTEEN INCH LOOSE LIFTS FOLLOWING THE GRADING PLAN AND USING GRADUATED STAKES OR FLAGS.
- C. COMPACTION.**
- I. COMPACTION WILL BE ACHIEVED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATIONS SECTION 203-3.12. AREA NOT SUPPORTING STRUCTURES OR ROADWAYS WILL BE COMPACTED TO AT LEAST 90 PERCENT MAXIMUM DRY DENSITY AND AREAS UNDER STRUCTURES OR ROADWAYS WILL BE COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY. COMPACTION SHALL BE DETERMINED BY STANDARD PROCTOR TEST ASTM D-698.
  - II. COMPACTION WILL BE PERFORMED USING A SMOOTH DRUM OR SHEEP'S-FOOT VIBRATORY ROLLER AS DETERMINED BY THE PROJECT ENGINEER DEPENDING ON THE MATERIAL TO BE COMPACTED. THE COMPACTOR WILL MAKE FOUR PASSES TO ENSURE COMPACTION IS IN COMPLIANCE WITH NYS DOT SPECIFICATIONS. A HAND-HELD TAMPER OR WALK BEHIND DUAL DRUM VIBRATORY ROLLER WILL BE USED IN AREAS INACCESSIBLE TO A VIBRATORY ROLLER.
- D. COMPACTION TESTING.**
- I. A CERTIFIED TECHNICIAN USING A TROXLER NUCLEAR DENSITY GAUGE WILL BE PRESENT DURING BACKFILLING OPERATIONS TO PERFORM COMPACTION TESTING. THE PROJECT ENGINEER WILL OVERSEE ALL COMPACTION OPERATIONS.
  - II. COMPACTION TESTING WILL BE PERFORMED ONCE PER 40,000 FT<sup>2</sup> FOR NONSTRUCTURAL AREAS AND ONCE PER 5,000 FT<sup>2</sup> FOR STRUCTURAL AREAS AND ROADWAYS.
  - III. COMPACTION TEST LOCATIONS AND ELEVATIONS WILL BE COLLECTED.
  - IV. ALL COMPACTION TESTING RESULTS WILL BE FORWARDED TO THE USACE.
- FINAL COVER**
- A. MATERIAL.**
- I. A MINIMUM 4 INCH± THICK LAYER OF APPROVED IMPORTED FILL CONSISTING OF CRUSHED STONE, GRAVEL, OR SIMILAR GRANULAR MATERIAL WILL BE PLACED OVER THE PLACE BACK BACKFILL MATERIAL TO REACH FINAL GRADE.

ANY CHANGE TO THIS RESTORATION PLAN MUST BE APPROVED BY THE PROJECT ENGINEER



**LEGEND**

	FORMER BUILDING 90 PAD
	FENCE
	ASPHALT
	FSSU 106
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING STORM
	EXISTING WATER
	EXISTING SANITARY
	ABANDONED STORM
	ABANDONED WATER



- NOTES**
1. HORIZONTAL DATUM LISTED AS NEW YORK STATE PLANE COORDINATES NAD 27 WEST ZONE (3103).
  2. ALL UTILITIES SHOWN ON THIS DRAWING ARE APPROXIMATE IN LOCATION AND ELEVATION AND BASED ON BEST AVAILABLE INFORMATION.
  3. SANITARY AND DOMESTIC WATER INLETS HAVE BEEN PLUGGED WITH HYDRAULIC CEMENT BY THE PREVIOUS CONTRACTOR.
  4. STORM DRAINS HAVE BEEN CAPPED BY THE PREVIOUS CONTRACTOR.

<p><b>CABRERA SERVICES</b> RADIOLOGICAL · ENGINEERING · REMEDIATION</p>			
<p>U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS BUFFALO, NEW YORK</p>			
<p>LINDE FUSRAP SITE TONAWANDA, NY W912P4-07-D-0002, 0002</p>			
<p>FORMER BUILDING 90 SLAB AND FINAL STATUS SURVEY UNIT 106 BACKFILL AND RESTORATION PLAN</p>			
SHEET NO.	AREA/SUBTASK	DRAWING NO.	DATE
SHEET 1 OF 1	BLDG. 90	BRP - 005	MAY 22, 2012

SIGNATURE \_\_\_\_\_ PRINTED NAME \_\_\_\_\_ DATE \_\_\_\_\_  
 PRAXAIR REPRESENTATIVE PRAXAIR REPRESENTATIVE