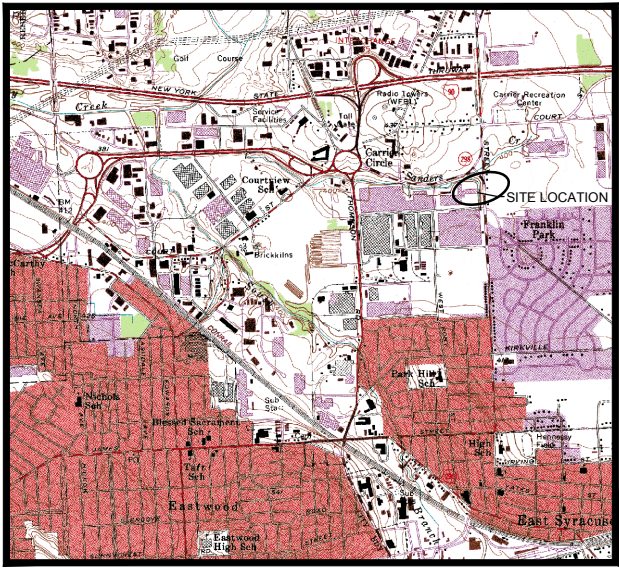


SOUTHEAST DEBRIS/SOIL PILE RESTORATION PLAN

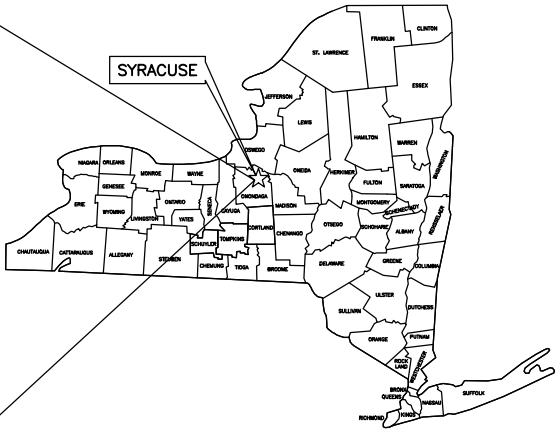
UTC/CARRIER SITE
Thompson Road, Syracuse, New York
Corrective Action Order - Index CO 7-20051118-4
NYSDEC Site Registry #734043



SITE PLAN



SITE LOCATION MAP



Prepared by:



257 West Genesee Street, Suite 400, Buffalo, New York 14202
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August 2018
(Revised September 7, 2018)

INDEX OF DRAWINGS

DWG. NO.	DESCRIPTION
	COVER SHEET AND INDEX OF DRAWINGS
G-001	GENERAL NOTES AND TECHNICAL SPECIFICATIONS
C-001	EXISTING CONDITIONS PLAN
C-002	EXCAVATION AND SAMPLING PLAN
C-003	SOIL COVER GRADING PLAN
D-001	DETAILS

SOUTHEAST DEBRIS/SOIL PILE RESTORATION PLAN UTC/CARRIER SITE

Thompson Road, Syracuse, New York

DATE: August 2018 (Revised September 7, 2018)

AECOM PROJECT NO. 60328507



DEFINITIONS

- "SITE OWNER" - REFERS TO BOTH JOHN WOLSKI OF UNTIED TECHNOLOGIES CORPORATION AND DAVE FRANCISCO OF CARRIER CORPORATION.
- "PROJECT OWNER" - UNITED TECHNOLOGIES CORPORATION.

1.0 GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL COORDINATE WITH CARRIER FACILITY'S STAFF TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. ANY ENCOUNTERED BURIED UTILITIES, NOT IDENTIFIED BEFORE THE START OF CONSTRUCTION, SHALL BE REPORTED TO THE SITE OWNER IMMEDIATELY.
- THE CONTRACTOR SHALL APPLY APPROPRIATE DUE DILIGENCE IN CLEARING AND WORKING AROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE SITE OWNER 48 HOURS IN ADVANCE OF WORKING ON OR IN THE VICINITY OF UTILITIES.
- ALL DISTURBED AREAS OUTSIDE OF THE WORK AREA SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT EXISTING PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE FINAL TOPOGRAPHIC SURVEY UPON COMPLETION TO DOCUMENT AS-BUILT CONDITIONS.
- SAMPLING REQUIREMENTS FOR IMPORTED SOIL/TOPSOIL
 - SAMPLES TO BE ANALYZED FOR VOLATILE ORGANIC COMPOUNDS (VOCs) SHALL BE DISCRETE SAMPLES.
 - SAMPLES TO BE ANALYZED FOR ALL PARAMETERS EXCEPT VOCs SHALL BE COMPOSITE SAMPLES. COMPOSITE SAMPLES SHALL CONSIST OF DISCRETE SAMPLES FROM 3 TO 5 DIFFERENT LOCATIONS.
 - SAMPLES SHALL BE COLLECTED AT THE FREQUENCY SPECIFIED IN DER-10, TABLE 5.4(E)10.

LEVELS OF CONTAMINATION MUST NOT EXCEED THE LOWER OF THE GROUNDWATER AND RESIDENTIAL USE LEVELS AS SHOWN IN APPENDIX 5 OF DER-10.

2.0 HEALTH AND SAFETY

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE HEALTH AND SAFETY OF THEIR PERSONNEL, SUBCONTRACTORS, AND ENSURING THAT THE WORK IS PERFORMED IN A SAFE MANNER. THE CONTRACTOR SHALL SUBMIT A HEALTH AND SAFETY PLAN SPECIFIC TO TASKS PERFORMED UNDER THIS CONTRACT FOR REVIEW PRIOR TO INITIATING THE WORK.
- THE CONTRACTOR'S EQUIPMENT SHALL MEET ALL OSHA REQUIREMENTS AND SHALL BE INSPECTED DAILY FOR COMPLIANCE.
- DURING EXCAVATION ACTIVITIES THE CONTRACTOR SHALL IMPLEMENT A COMMUNITY AIR MONITORING PLAN, WHICH SHALL BE DETAILED IN THE HEALTH AND SAFETY PLAN.

3.0 EROSION/SEDIMENT CONTROL AND STORM WATER MANAGEMENT

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING SEDIMENT AND EROSION IN ALL AREAS IMPACTED BY CONSTRUCTION ACTIVITIES. THE PLAN SHALL INCLUDE ROUTES USED BY THEIR TRUCKS AND THE MAINTENANCE OF ROADWAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORM WATER RUNOFF CONTROL TO PROMOTE STORM WATER DRAINAGE TO EXISTING DRAINAGE RECEPTORS, TO AVOID PONDING AND TO DIRECT FLOW AWAY FROM THE EXCAVATIONS.
- THE CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO INITIATING THE WORK. THE SWPPP AND ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PREPARED IN ACCORDANCE WITH:
 - NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL (NYSSESC), LATEST VERSION.
 - THE EROSION AND SEDIMENT CONTROL REQUIREMENTS OF THE STATE POLLUTION DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT GP-0-15-002 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY DESIGNED IN CONFORMANCE WITH PART III.B.1. OF THE SPDES GENERAL PERMIT.

4.0 DUST MONITORING

- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL PROCEDURES AND PERFORM FUGITIVE DUST PARTICULATE MONITORING IN ACCORDANCE WITH NYSDEC DER-10 APPENDIX 1B.

5.0 PERMITS

- THE CONTRACTOR SHALL IDENTIFY AND OBTAIN NECESSARY PERMITS, IF ANY, PRIOR TO PERFORMING ANY WORK AT THE SITE. THE CONTRACTOR SHALL PROVIDE PERMITS AS A SUBMITTAL, FOR INFORMATION ONLY, TO THE SITE OWNER.

6.0 SURVEY NOTES

- THIS SURVEY IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD83/2011) AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE), AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88-GEOID 09).

- NORTH ARROW AS SHOWN INDICATES GRID NORTH REFERENCED TO NAD83 AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE).
- LOCATION OF SPOT ELEVATION IS INDICATED BY THE TICK "*" MARK LOCATED ADJACENT TO THE ELEVATION.
- ELEVATIONS AND CONTOURS SHOWN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88-GEOID09)
- TOPOGRAPHIC SURVEY WAS PERFORMED BY C.T. MALE ASSOCIATES ON 6/29/17.

7.0 EXCAVATION AND BACKFILL

GENERAL

- THE CONTRACTOR SHALL PROTECT OPEN EXCAVATIONS AT ALL TIMES. METHODS OF PROTECTION SHALL BE SUBMITTED FOR REVIEW PRIOR TO EXCAVATING. AT A MINIMUM EXCAVATIONS SHALL BE PROTECTED BY PLASTIC SNOW FENCING AROUND THE PERIMETER, PRIOR TO BACKFILLING, WHILE THE CONFIRMATORY SAMPLES ARE BEING COLLECTED, ANALYZED AND EVALUATED.
- THE CONTRACTOR SHALL ARRANGE FOR CONTAMINATED EXCAVATION SPOILS TO BE DISPOSED OF OFFSITE. THE CONTRACTOR SHALL COORDINATE WITH THE SITE OWNER FOR PROPER CHARACTERIZATION AND DISPOSAL. THE SITE OWNER WILL DIRECT CONTRACT TRANSPORTATION AND DISPOSAL.
- TRUCKS OR ROLL-OFF DUMPSTERS USED TO TRANSPORT THE SPOILS OFFSITE SHALL BE TIGHT AND LOADED AS NOT TO SPILL. TRUCKS AND DUMPSTERS SHALL BE COVERED WITH CANVAS OR EQUIVALENT FABRIC TO PREVENT SPILLING EXCAVATED MATERIALS.
- THE CONTRACTOR SHALL COORDINATE AND SCHEDULE TRUCK TRAFFIC TO MINIMIZE DISRUPTION OF NORMAL STREET TRAFFIC.
- DISTURBED AREAS SHALL BE RESTORED TO MEET ADJACENT GRADES AND CONDITIONS (GRASSED, PAVED, ETC.).
- WASTE CHARACTERIZATION OF CONTAMINATED EXCAVATION SPOILS FOR THE PURPOSES OF DISPOSAL SHALL BE ANALYZED FOR THE PARAMETERS SPECIFIED IN THE CODE OF FEDERAL REGULATIONS (CFR) 40 CFR SECTION 261.24 TABLE 1: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP), INCLUDING:

- VOCs,
- SEMI-VOCs (SVOCs),
- PESTICIDES,
- HERBICIDES,
- METALS.

THE SAMPLES SHALL ALSO BE ANALYZED FOR:

- TOTAL POLYCHLORINATED BIPHENYLS (PCBS),
- THE CHARACTERISTICS OF IGNITABILITY (FLASHPOINT), CORROSIVITY (PH), AND REACTIVITY (REACTIVE CYANIDE AND REACTIVE SULFIDE).

ANALYSES SHALL BE PERFORMED USING THE LATEST VERSION OF THE ACCEPTED EPA METHODS.

MATERIALS

- BACKFILL SHALL BE NATURALLY OCCURRING SOIL OBTAINED FROM VIRGIN SOURCE. FREE FROM CHEMICAL CONTAMINATION. THE MATERIAL SHALL BE FREE FROM CINDERS, INDUSTRIAL WASTE, SLUDGE, BUILDING RUBBLE, LAND FILL, MUCK AND PEAT.
- THE FINAL BACKFILL LAYER SHALL BE FREE OF ROCKS, FROZEN CLOUDS, LUMPS, CONSTRUCTION DEBRIS AND ANY OTHER MATERIAL WITH A DIMENSION GREATER THAN 3-INCHES.

EXECUTION

- BACKFILL SHALL BE COMPACTED IN MAXIMUM 12" LIFTS (AFTER COMPACTION) USING A SMOOTH-DRUM VIBRATORY 6-TON COMPACTOR, MINIMUM OF FOUR (4) PASSES WITH TWO (2) PASSES PERPENDICULAR TO THE OTHER TWO (2) PASSES, AND A MAXIMUM TRAVEL SPEED OF THREE (3) MPH; AND SHALL BE UNIFORMLY APPLIED. SIGNIFICANT RUTTING (GREATER THAN NOMINAL TWO (2) INCHES) AND/OR WATER PUMPING FROM THE MATERIAL UNDER THE ACTION OF THE COMPACTOR SHALL BE CONSIDERED CAUSE FOR REMEDIES, SUCH AS REMOVAL AND REPLACEMENT OF THE LIFT BEING COMPACTED AND/OR AERATION OF THE FILL VIA MANIPULATION/TURNING OVER THE FILL, AND THEN RE-COMPACTING IT. COMPACTION SHALL CONTINUE UNTIL THE OBSERVED DEFLECTION OF THE BACKFILL IS LESS THAN 1-INCH.

8.0 CONFIRMATION SOIL SAMPLING

- AFTER EXCAVATION IS COMPLETE, AND PRIOR TO BACKFILLING, THE CONTRACTOR SHALL COLLECT CONFIRMATION GRAB SAMPLES AS SHOWN ON THE DRAWING AND AS DESCRIBED BELOW. CONFIRMATION SAMPLING SHALL BE PERFORMED IN ACCORDANCE WITH NYSDEC DER-10, SECTION 5.4 (b) WHICH, IN PART, CALLS FOR SIDEWALL SAMPLING FREQUENCY OF ONE FOR EVERY 30 LINEAR FEET AND A BOTTOM SAMPLING FREQUENCY OF ONE FOR EVERY 900 SQUARE FEET.
 - ONE (1) SOIL SAMPLE SHALL BE COLLECTED FROM THE BOTTOM OF EXCAVATION AT THE APPROXIMATE LOCATIONS SHOWN.
 - ONE (1) SOIL SAMPLE SHALL BE COLLECTED FROM EACH OF FOUR (4) SIDEWALLS AT THE APPROXIMATE LOCATIONS SHOWN.
 - SIDEWALL SAMPLES SHALL BE COLLECTED AT THE MIDDLE OF THE SIDEWALL.
 - SAMPLES SHALL BE ANALYZED FOR SVOCs BY METHOD 8270D.

- 1

E. SAMPLES SHALL BE SUBMITTED FOR 72 HOUR RUSH TURN.

2. SHOULD CONFIRMATORY SAMPLES EXCEED PART 375 INDUSTRIAL SCOS, THE DATA SHOULD BE SUBMITTED TO NYSDEC TO DETERMINE IF FURTHER EXCAVATION IS NEEDED. IF NEEDED, THE EXCAVATION SHALL BE EXPANDED AS FOLLOWS:
 - HORIZONTAL - 10 FEET (OR UP TO THE LIMIT OF THE DEBRIS PILE FOOTPRINT) AND THE NEW SIDEWALL SHALL BE RE-SAMPLED.
 - VERTICAL - 1 FOOT AND THE NEW BOTTOM OF EXCAVATION SHALL BE RE-SAMPLED.

3. EXCAVATION SHALL NOT BE BACKFILLED UNTIL POSITIVE RESULTS ARE ACHIEVED FROM CONFIRMATORY SAMPLING.

9.0 SOIL COVER:

- SOIL COVER SHALL BE AT A MINIMUM 12-INCHES ACROSS THE AREA WITH IN-PLACE VOLUME OF 13,300 CY (ACTUAL IMPORT QUANTITY ESTIMATED TO BE 16,250 CY). THE SOIL COVER MATERIAL SHALL BE THE SAME AS THE BACKFILL MATERIAL USED FOR THE EXCAVATIONS.
- FINAL SOIL COVER GRADING SHALL MAINTAIN A POSITIVE 1.5 PERCENT SLOPE.
- A DEMARCATION LAYER SHALL BE INSTALLED CONSISTING OF A WOVEN GEOTEXTILE (CARTHAGE MILLS FX-33 OR EQUIVALENT). ASSUME AN AREA OF 165,200 SQUARE FEET.

10.0 STONE DRAINAGE RELIEF TRENCH:

- STONE TO BE CERTIFIED CLEAN NYSDOT #2 WASHED NON-LIMESTONE.
- THERE WILL BE 16 TOTAL WITH DIMENSIONS OF 2 FOOT WIDE, DEPTH OF 1 FOOT AND 10 FEET IN LENGTH TO BE INSTALLED AROUND THE PERIMETER (ORIENTED PERPENDICULAR TO THE PERIMETER OF THE PILE) TO FACILITATE DRAINAGE OF PORE WATER THAT MAY BUILD-UP AT THE INTERFACE OF THE NEW GRADING SOILS AND THE EXISTING SOILS.

11.0 PROJECT DOCUMENTATION:

- THE CONTRACTOR SHALL PERFORM A FINAL TOPOGRAPHIC SURVEY AND PREPARE A CONSTRUCTION COMPLETION REPORT.

AECOM

PROJECT

SOUTHEAST DEBRIS/ SOIL PILE RESTORATION PLAN

UTC/CARRIER SITE
Thompson Road
Syracuse, New York

CLIENT

United Technologies

UTC Shared Remediation Services
9 Farm Springs Road
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ISSUE/REVISION

1	2018-09-07	PER NYSDEC COMMENTS
0	2018-06-12	ISSUED FOR CONSTRUCTION
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

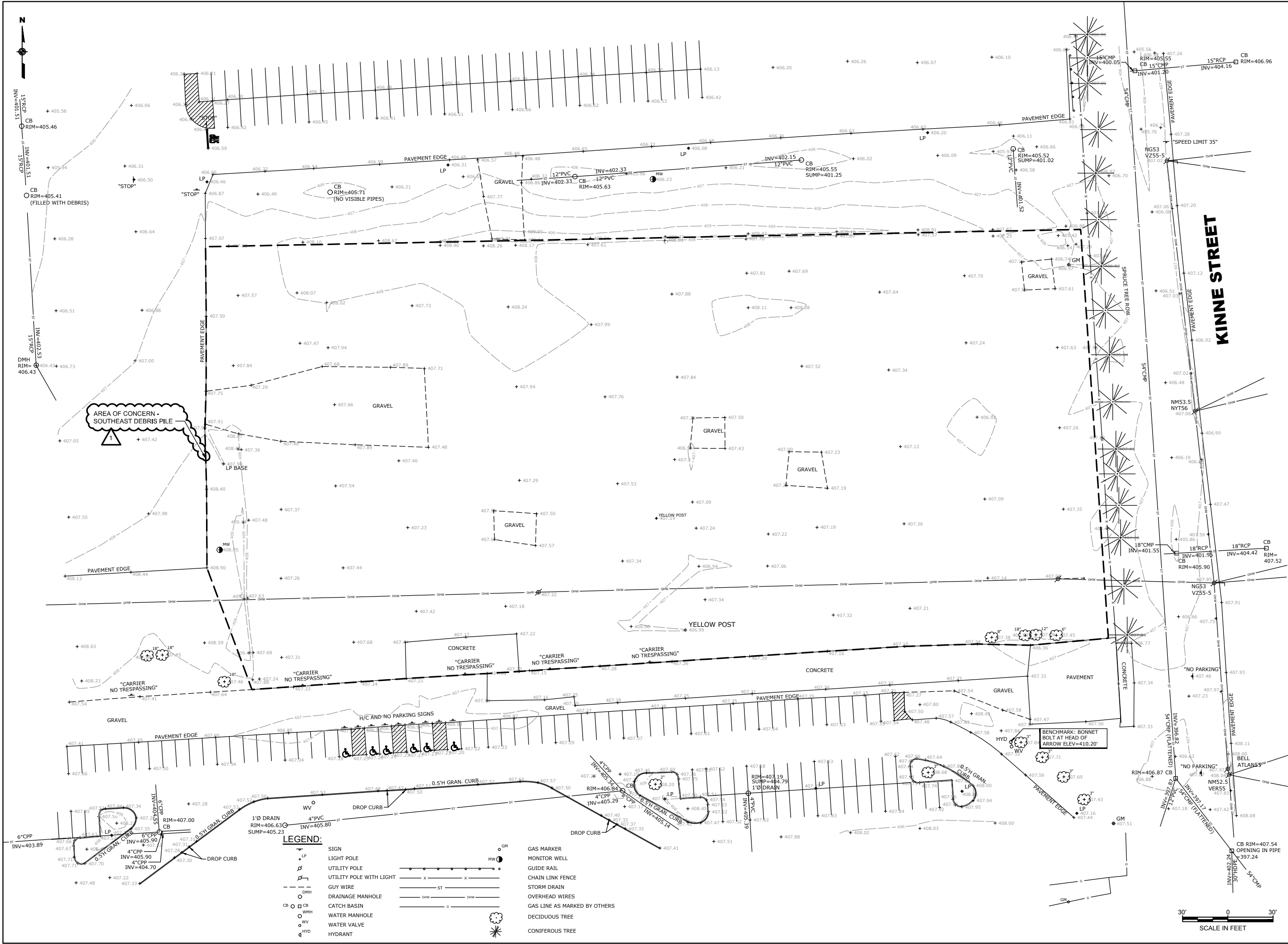
AECOM #60328507

SHEET TITLE

GENERAL NOTES AND
TECHNICAL SPECIFICATIONS

SHEET NUMBER

G-001



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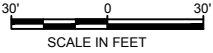
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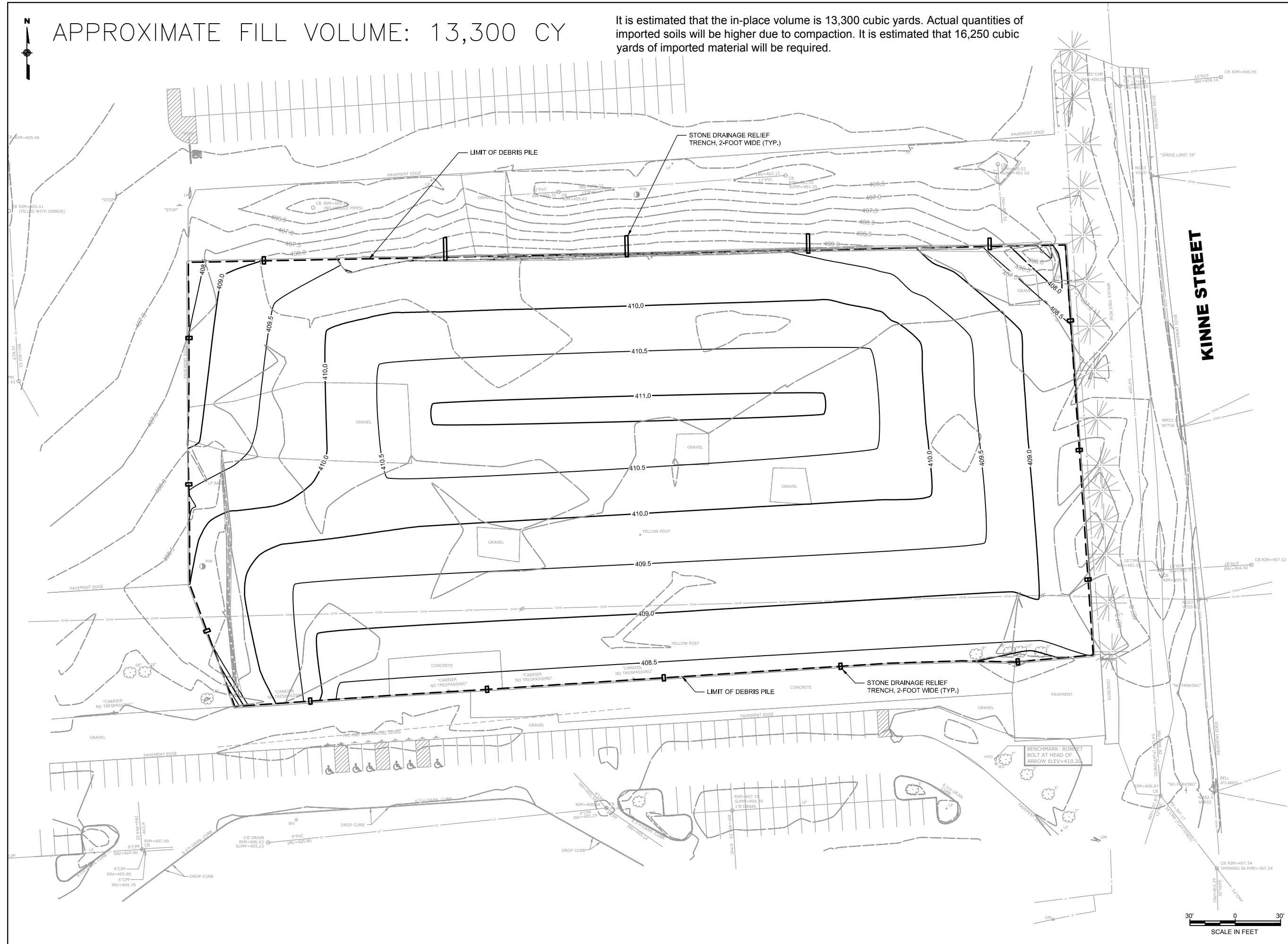
SHEET TITLE

EXISTING
CONDITIONS PLAN

SHEET NUMBER

C-001



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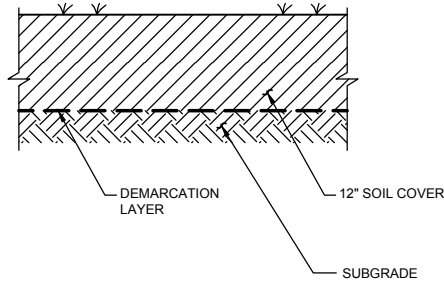
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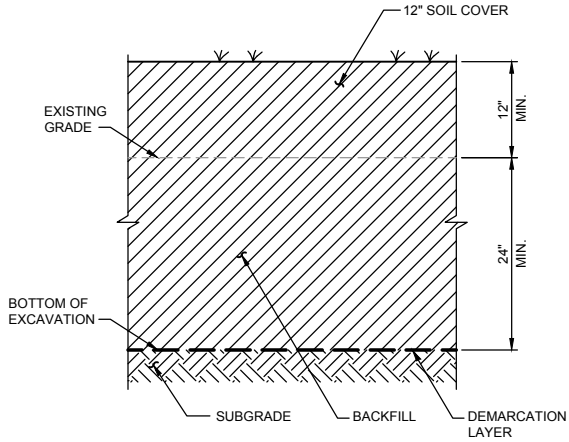
SOIL COVER GRADING PLAN

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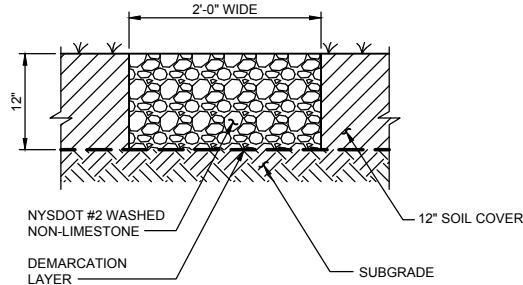
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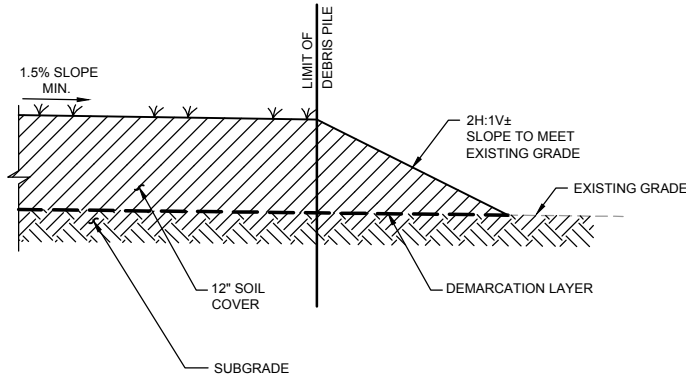
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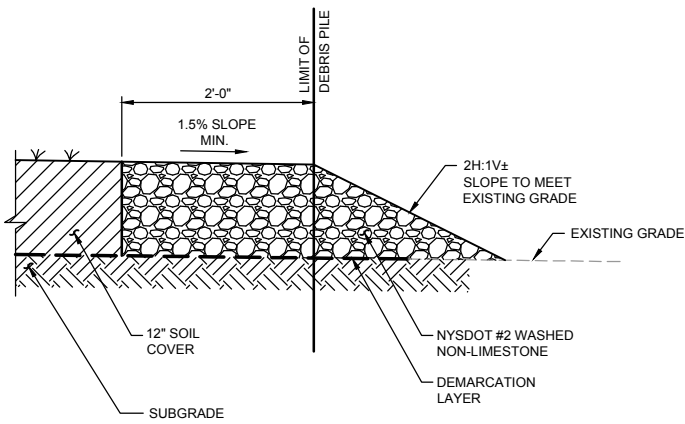
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EXCAVATION DETAIL
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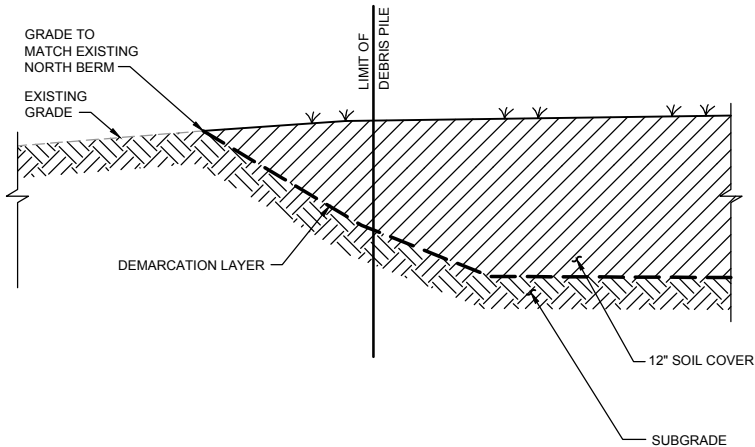
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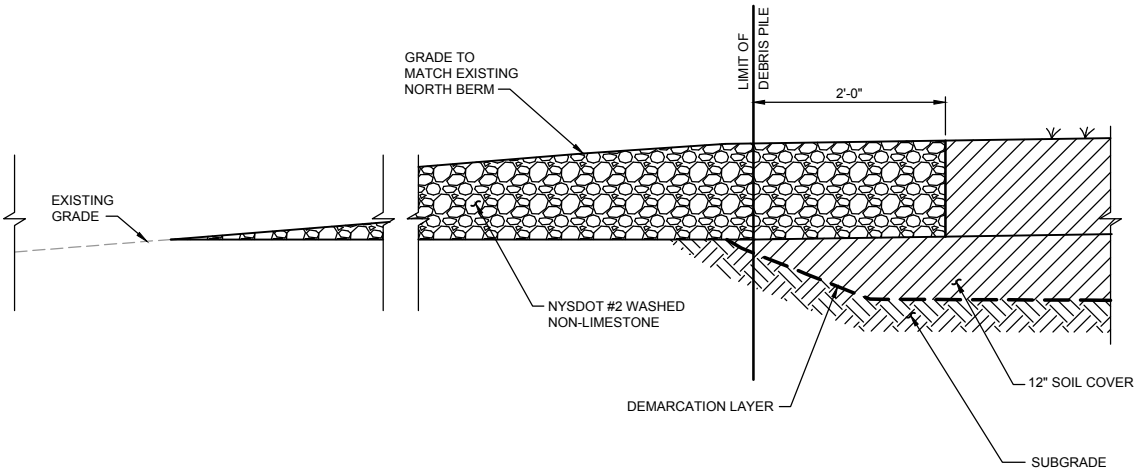
COVER TERMINATION DETAIL
NOT TO SCALE



EAST, WEST AND SOUTH
STONE DRAINAGE RELIEF TRENCH DETAIL
NOT TO SCALE



NORTH BERM COVER TERMINATION DETAIL
NOT TO SCALE



NORTH BERM STONE DRAINAGE RELIEF DETAIL
NOT TO SCALE

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