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Archeological Phase I Survey for the Columbia Falls and Moscow OTHB-E Radar Stations, Washington and Somerset Counties, Maine

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Global Power for America

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Geraldine E. Baldwin and William J. Chadwick

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John Milner Associates, Inc.
1 Croton Point Avenue
Croton-on-Hudson, New York
10520

Geo-Marine, Inc.
550 East 15th Street
Plano, Texas
75074

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John Milner Associates, Inc., under a subcontract with Geo-Marine, Inc., under a main contract with the U.S. Army Corps of Engineers, Fort Worth District Cultural Resources Section, conducted an archeological Phase I survey for the Air Combat Command at two Over the Horizon Backscatter-East Radar (OTHB-E) sites in the towns of Columbia Falls and Moscow, Maine, from August 4 through August 27, 2003. This work was conducted to partially satisfy the Air Force obligations under Sections 110 and 106 of the National Historic Preservation Act, in anticipation of the closing of these properties.

As a result of this archeological survey, three newly identified Native American sites (77.7 ME, 77.8 ME and 77.9 ME) and one newly documented historic archeological site (ME 860-001) were identified at the Columbia Falls radar station. No archeological sites were identified at the Moscow radar station.

The three newly identified Native American sites at the Columbia Falls radar station have the potential to provide significant information regarding Native American occupation and use of a little known portion of Washington County, Maine. Phase II archeological site evaluations are recommended for all of the Native American sites identified in the Columbia Falls radar station. No further archeological work is recommended for site ME860-001 or at the Moscow radar station.

Name of Federal Technical Responsible Individual: Dr. Jay R. Newman
Organization: U.S. Army Corps of Engineers, Fort Worth District, CESWF-PER-EC
Phone #: (817) 886-1721

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UNITED STATES AIR FORCE
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ARCHEOLOGICAL PHASE I SURVEY FOR THE COLUMBIA FALLS AND MOSCOW OTHB-E RADAR STATIONS, WASHINGTON AND SOMERSET COUNTIES, MAINE

HEADQUARTERS AIR COMBAT COMMAND
NOVEMBER 2004

ABSTRACT

John Milner Associates, Inc, (JMA) under a subcontract with Geo-Marine, Inc., under a main contract with the U.S. Army Corps of Engineers (USACE), Fort Worth District Cultural Resources Section, conducted an archeological Phase I survey for the Air Combat Command (ACC) at two Over the Horizon Backscatter-East Radar (OTHB-E) sites in the towns of Columbia Falls and Moscow, Maine, from August 4 through August 27, 2003. This work was conducted to partially satisfy the Air Force obligations under Sections 110 and 106 of the National Historic Preservation Act, in anticipation of the closing of these properties.

At the direction of the ACC, Phase I archeological survey was conducted at both radar stations. As a result of this archeological survey, three newly identified Native American sites (77.7 ME, 77.8 ME and 77.9 ME) and one newly documented historic archeological site (ME 860-001) were identified at the Columbia Falls radar station. No archeological sites of any kind were identified at the Moscow radar station.

The three newly identified Native American archeological sites identified at the Columbia Falls radar station have the potential to provide significant information regarding Native American occupation and use of a little known portion of Washington County, Maine. Phase II archeological site evaluations are recommended for all of the Native American sites identified in the Columbia Falls radar station. This work will provide necessary information to potentially address the Research Significance Themes outlined by the MHPC (Spiess 1990). No further archeological work is recommended for historic site ME860-001 or at the Moscow OTHB-E radar station.

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1.0 INTRODUCTION

An archeological Phase I survey/inventory was conducted under a USACE Fort Worth District contract for the Air Combat Command (ACC) at two Over the Horizon Backscatter-East (OTHB-E) radar stations in Columbia Falls and Moscow, Maine (Figures 1 and 2). The Columbia Falls Radar Station is located in Washington County, Maine (Figure 3) and the Moscow Radar Station is located in Somerset County, Maine (Figure 4). Archeological field work was conducted over a period of 20 days from August 4 through August 28, 2003, by John Milner Associates, Inc. (JMA). This work was conducted to assist the Air Force in satisfying its obligations under Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended (PL-96-515), and the National Environmental Policy Act (NEPA) of 1969 (PL-90-190). This work was also conducted under the Maine Historic Preservation Commissions (MHPC) *Contract Archaeology Guidelines* (February 1990) that pertains to Phase I reconnaissance surveys and ACC Policy on the Curation of Archeological Collections (15 June 1998). The field crew included Lori Laliberte, Willam Rombola and Christopher Wright.

The principal goal of a Phase I archaeological survey/inventory is to identify Native American and historic archeological resources within the Project areas which may be eligible for inclusion in the National Register of Historic Places (NRHP). The archeological survey of the Columbia Falls and Moscow radar stations employed a methodology commonly used for survey work in Maine. All exposed ground at each facility was visually inspected during the survey. The survey included areas that had the potential to contain archeological sites as well as areas that have been disturbed. Disturbed portions of the facilities were noted on project maps, visually inspected for cultural remains and photographed. All landforms determined to be potentially sensitive for containing archeological sites were further investigated by the excavation of 50 cm x 50 cm shovel test units (STUs) at 15 m intervals along a grid oriented in a north-south direction. STUs were excavated through overlying soils and at least 10 cm into underlying glacial till.

The Columbia Falls and Moscow OTHB-E Radar Stations each contain three sectors (Sectors 1, 2 and 3). This report will discuss the results of the archeological survey at each of the radar stations by sector (see Figures 3 and 4).

As a result of the Phase I survey/inventory three newly identified Native American sites (77.7 ME, 77.8 ME and 77.9 ME) and one newly identified historic site (ME 860-001) were recorded at the Columbia Falls OTHB-E radar station. No archeological or cultural sites were identified at the Moscow OTHB-E radar station. Phase II site evaluations are recommended for the three newly identified Native American sites. The cultural history of the non-coastal portions of Washington County is lacking in details regarding Native American lifestyles and associated cultural material. Phase II site evaluations of these three sites will seek to collect information needed to determine whether these sites satisfy NRHP eligibility criteria.

The remainder of this report is organized as follows: the paleoenvironmental reconstruction and environmental setting for each radar station is discussed in section II. The cultural setting is described in Section III. Field and laboratory methods are discussed in Section IV, and the results of the Phase I field work is presented in Section V. A summary of all work conducted on the Columbia Falls and Moscow OTHB-E radar stations are presented in Section VI. Appendix I contains STU soil profiles; Appendix II contains the As Built maps for each facility; and Appendix III contains a list of acronyms used throughout this report.

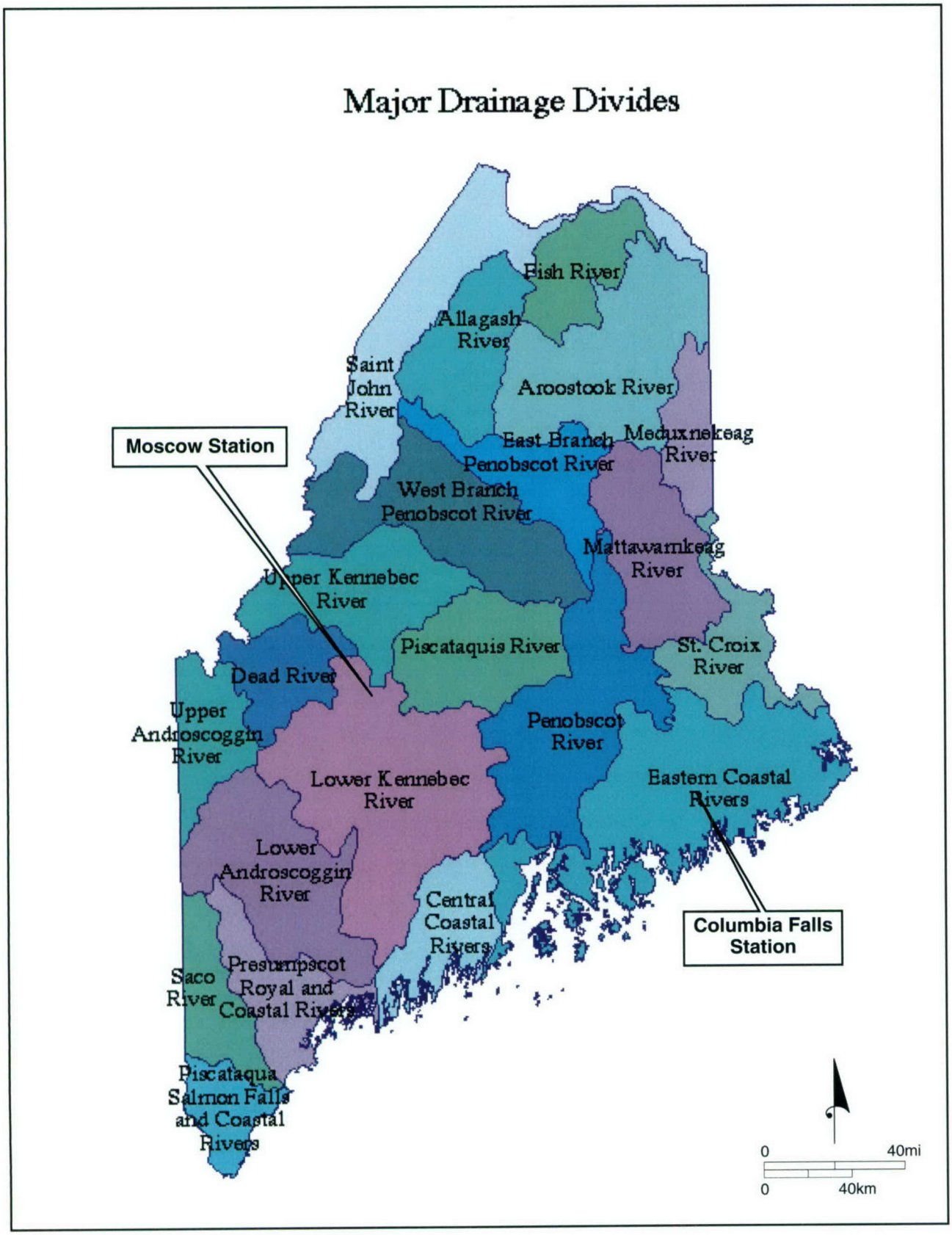

Figure 1. Drainage basins of Maine showing the locations of the Columbia Falls and Moscow OTHB-E Radar Stations.

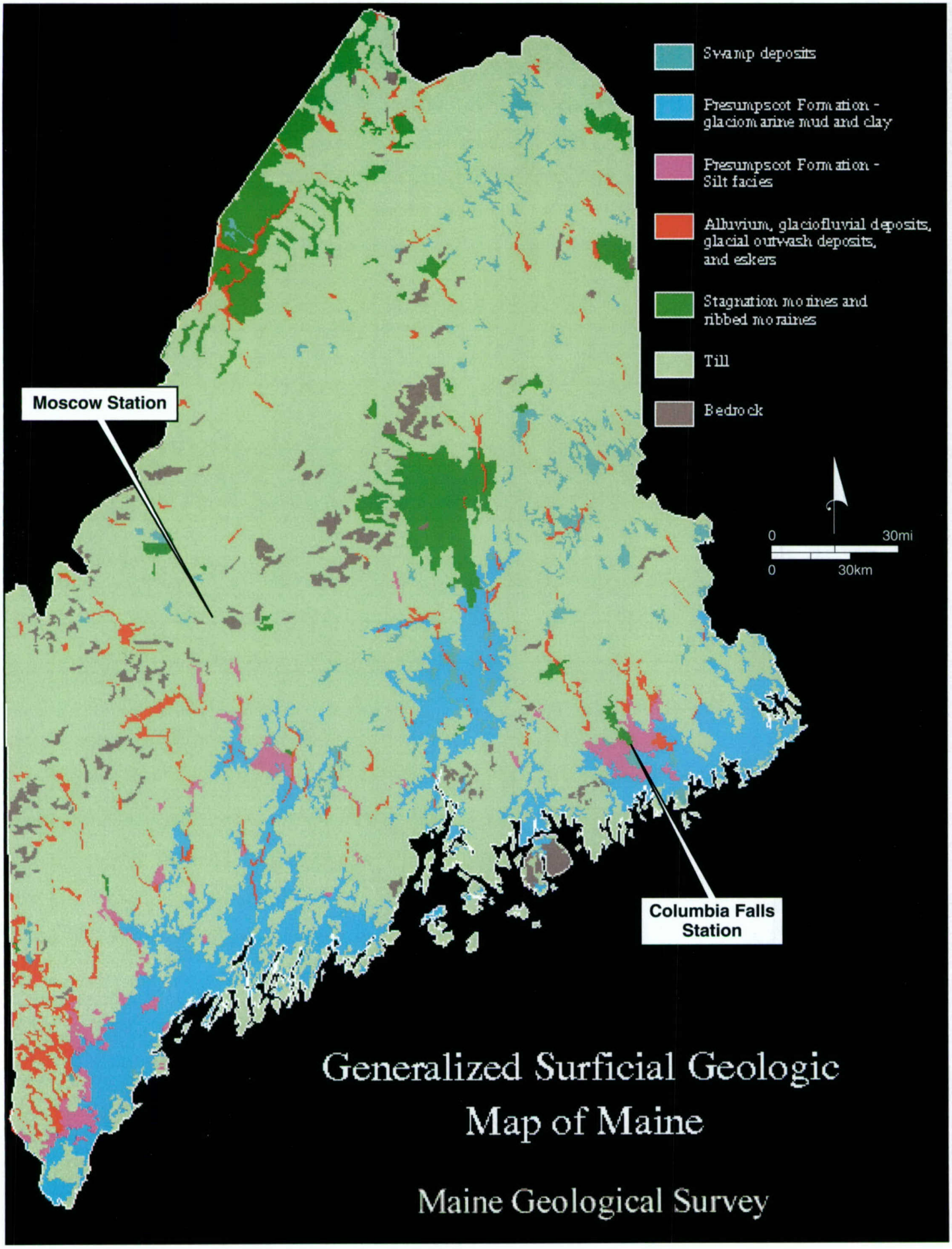

Figure 2. Generalized surficial map of Maine showing the locations of the Columbia Falls and Moscow Radar Stations.

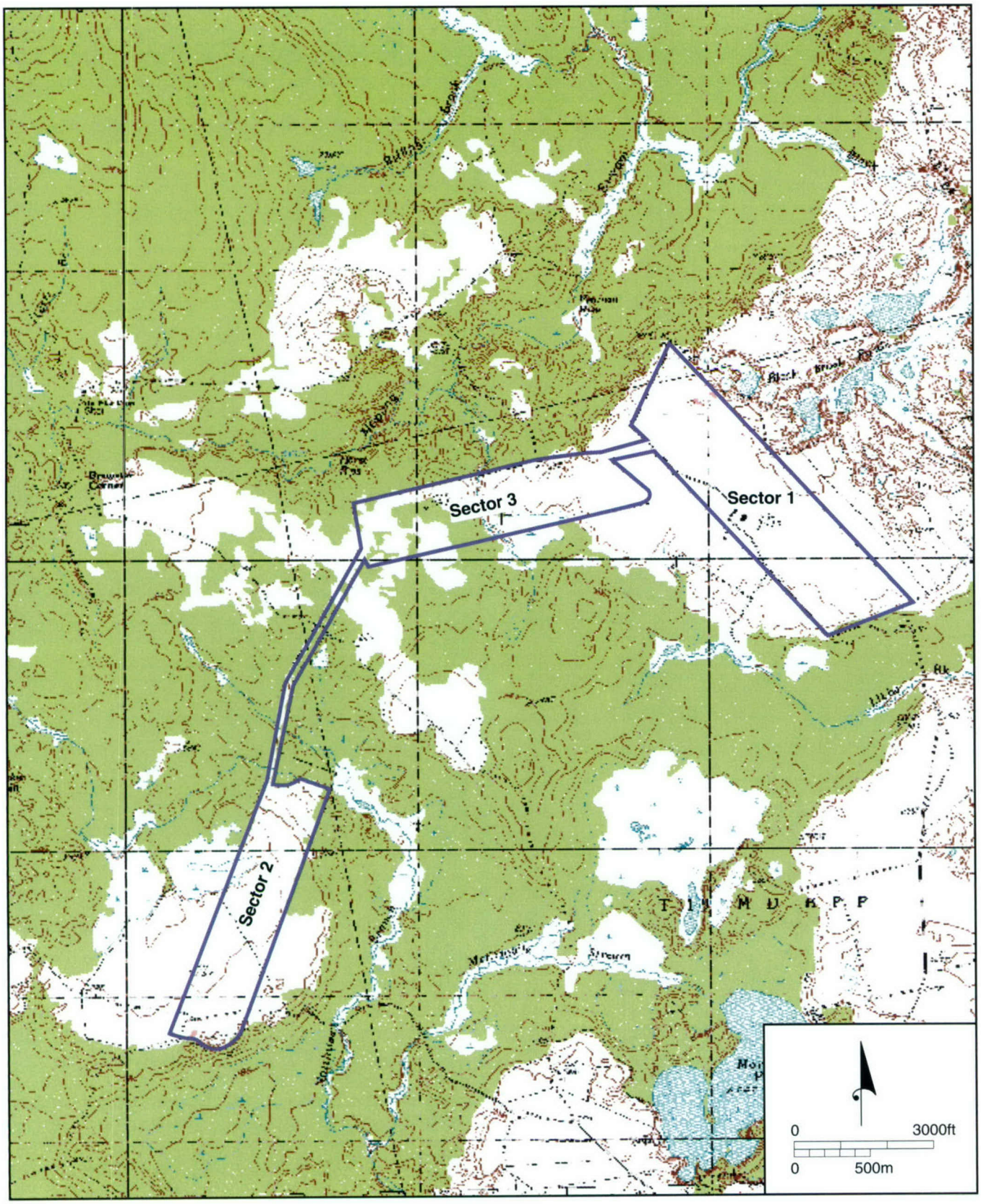

Figure 3. USGS (1994) 7-minute map *Montegail Pond, Maine* showing location of the Columbia Falls Radar Station.

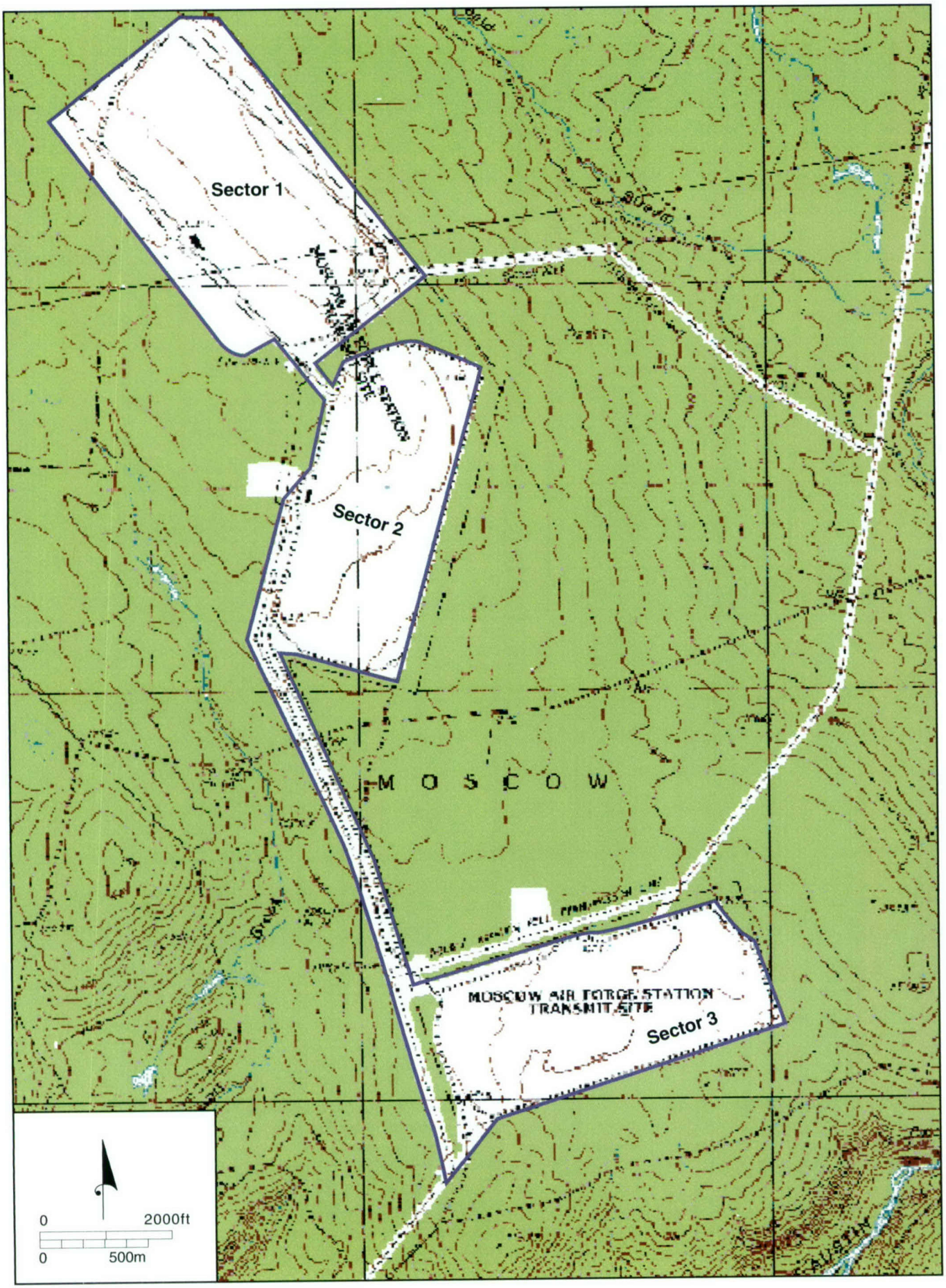

Figure 4. USGS (1994) 7 minute map *Dimmick Mt, Maine*, showing the location of the Moscow Radar Station.

2.0 PALEOENVIRONMENTAL RECONSTRUCTION AND ENVIRONMENTAL SETTING

Maine's landscape has been tailored by the effects of the last Ice Age. As the Laurentide Ice sheet advanced across the landscape to its maximum extent approximately 25,000 years ago, it scoured the previous landscapes down to bedrock. As the ice sheet retreated, new landscapes related to the scouring of the glacier and the melting of the glacier came into view. New valleys and river systems emerged and glacial deposits began to be modified by wind, running water, and vegetation. The two radar stations, Columbia Falls and Moscow, are located in two varied environmental settings. Columbia Falls is located within the coastal region of Maine while Moscow is located within the Appalachian Mountains. This difference in environmental settings determined the archeological methodologies employed during this archeological survey. These methodologies are directly influenced by the landscapes derived by glacial erosional and depositional activities and subsequent modification by the environment for the past 10,000 years.

2.1 COLUMBIA FALLS RADAR STATION

The Columbia Falls radar station is located in Washington County, Maine. This site is located within the eastern Coastal Rivers Drainage of Maine (Figure 1). The station is underlain by glaciofluvial and moraine deposits related to the retreat of the Laurentide Ice Sheet nearly 10,000 years ago (Figure 2). These deposits are composed of gravel, sand, and silt. The glaciofluvial deposits are typically stratified and well sorted and are related to melt water flowing under and beyond the terminus of the retreating ice sheet. The moraine deposits, in contrast, are unstratified and poorly sorted. Moraine deposits occur in locations where a glacial advance or retreat becomes stagnant and materials melting out of the terminus of the glacier create piles of material.

At times, large blocks of ice are also calved off the terminus of the glacier and remain intact and melt as the glacier continues to melt and retreat. Debris typically piles around these blocks of ice as they continue to melt. Eventually, the ice melts leaving somewhat circular depression (kettles) on the landscape. Some kettles fill with water and become small ponds and lakes.

The landscape in the north and eastern half of Sector 1 (Figure 3) has many basin-shaped landscape features, some with wetlands in the center. Ridges separate these features. To the northeast of the project area, some of these features have large ponds in their center. These features, based on their morphology are interpreted as kettles. Because some of these kettles today have wetlands associated with them, it would be appropriate to suggest that these kettles would have contained wetlands periodically throughout prehistory. These kettles would have been areas where water and vegetation resources would have been abundant throughout the prehistory of the project area. The areas adjacent to the larger kettles, north of and beyond the limits of the survey area, would have been favorable locations for prehistoric occupation. Areas adjacent to the smaller kettles would have been suitable for resource procurement.

Based on the likelihood that these kettles contained wetlands within their center in prehistory, occupation and use of the landscape would probably have been associated with the ridges that separate these features. It is further suggested that south facing slopes overlooking the kettles would have been favored for occupation and use over the ridge crests and north facing slopes of the kettles.

The landscape position of Sector 1, being devoid of features associated with fluvial deposition, precludes deeply buried deposits. It is likely that any archeological deposits within this sector would be at or near the surface. Buried cultural materials would only be associated with wind blown sediments (loess) deposited shortly after the retreat of the ice sheet, and before the establishment of vegetation on the landscape.

In contrast, Sector 2 lays primarily upon a nearly horizontal landform tens of feet above wetlands to the south and east. Based on its spatial characteristics and setting this landform is interpreted as a glaciofluvial delta. The northern portion of Sector 2 extends beyond the edge of this landform with evidence of fill having been placed within the wetlands to the north. Testing within this sector was restricted to the edge of the interpreted delta to the south, and landforms above wetlands in the north and west.

The landscape of Sector 3 has been greatly modified by construction activities within this sector. A stream valley that dissected the sector has been filled and the remaining landscape has either been excavated or filled. The true nature of landscape features that were once present have been destroyed by these construction activities.

2.2 MOSCOW RADAR STATION

The Moscow Radar Station is located in Somerset County, Maine, within the eastern Lower Kennebec River Drainage of Maine (Figure 1). Glacial till deposits related to the retreat of the Laurentide Ice Sheet nearly 10,000 years ago and bedrock outcrops are exposed in parts of the station (Figure 2). The till deposits identified at the Moscow station are composed of unstratified and poorly sorted gravel, sand, and silt with the occasional erratic. These till deposits are related to the deposition of pulverized rock material melting from the glacier during its retreat across the landscape. Outcrops associated with the Moscow radar station exhibit evidence of glacial scour identified by cut striations on their surfaces. The combination of the outcrops and thin layer of glacial till precludes the existence of deeply buried archeological materials. In addition, because the station's landscape is devoid of features associated with fluvial deposition, deeply buried deposits are precluded. Thus, it is likely that any archeological deposits at this station will be at or near the surface. Burial of cultural materials may only be associated with wind blown sediments (loess) deposited shortly after the retreat of the ice sheet and before the establishment of dense vegetation.

All three sectors and connecting roads within the Moscow Radar Station have the same environmental setting. There are no geographic features that stand out as having higher potential for prehistoric occupation except where intermittent streams cross the property. Intermittent streams are located along the access road between Sector 3 and Sector 2. Bluffs overlooking the incised intermittent streams are considered to be the most likely location of occupation and were a focus of survey efforts including the excavation of STUs. Other areas in Sector 3 where STUs were excavated were associated with knolls. The likely use of these landforms would be for resource procurement, and any archeological sites identified on them would likely not have been associated with long-term occupation due to their elevation and the sparseness of water.

3.0 CULTURAL SETTING

The prehistory of northeastern North American is generally broken down into three major temporal periods: the Paleoindian period, ca. 9000-7000 B.C.; the Archaic period, ca. 7000-1000 B.C.; and the Woodland (Ceramic) period, ca. 1000 B.C.-A.D. 1600. The Contact period; ca. A.D. 1550-1750 was a dynamic time when Native American populations first came into contact with Europeans. Competition over land and resources coupled with the exposure to European diseases nearly resulted in the collapse of their traditional lifeways. Archeological research conducted in Maine over the last several decades has provided much information regarding the prehistory of the state. This information has added to the known body of archeological data from research conducted elsewhere in the broader New England regions.

The Paleoindian period has been divided into two phases based upon distinctions identified in the lithic technology: the Early Paleoindian period, ca. 9000-8000 B.C, and the Late Paleoindian period, ca. 8200/8000-7000 B.C. The distinctive lithic components of the Paleoindian period assemblages consist of long, fluted projectile points and a variety of end scrapers, side scrapers, knives, gravers, and perforators. Paleoindian peoples likely lived in small, mobile groups of hunters and gatherers who were adapted to the dynamic climatic conditions associated with the late Pleistocene and early Holocene environments. Artic tundra, boreal forests and mixed deciduous forest conditions were likely present during the earlier Paleoindian period, ca. 9000-8000 B.C. Archeological research conducted in Maine suggests that Paleoindian people were attracted to glacially deposited dunes, kettles and high terraces with access to rivers and lakes, and high-quality lithic sources. Numerous Paleoindian sites have been identified in Maine and elsewhere in the region (e.g., Bourque 2001, Brigham 2001; Dumais 2000; Grimes 1979; Gramly 1982; Petersen et al., 2000;Ritchie 1971, 1980; Sanger et al. 1992; Snow 1980:150; Spiess and Wilson 1992; Wilson and Spiess 1990). A single Paleoindian point is reported from Site 77.6 ME. This site is located on the Machias River approximately 3.5 km northeast of the Columbia Falls OTHB-E radar station.

The transition from the Paleoindian period to the Archaic period roughly corresponds with the transition from open tundra and boreal forests to closed forest cover after 8000-7000 B.C. Archaic period populations are characterized as groups of hunters and gatherers that occupied North America throughout the dramatic environmental changes of the early Holocene and adapted to the numerous resources available. Archaic cultures in the Northeast are generally characterized as small, mobile social groups, and their sites are usually small and lacking permanent structures, fortifications, extensive storage pits, and elaborate mortuary remains (Ritchie 1980:32).

The Archaic period is subdivided into Early, Middle and Late subperiods (ca. 7000-5500 B.C., 5500-4000 B.C., and 4000-1000 B.C.), respectively. Only recently have Early Archaic sites been reliably excavated or radiocarbon dated in the northeast. Information regarding the Early Archaic period in the Maritime Peninsula is sparse. The reason that so few Early and subsequent Middle Archaic sites have been identified in Maine may stem from their proximity to submerging shorelines during periods of rising sea levels. As a result, these sites are usually identified by the presence of a very small number of projectile points that resemble types found at better documented sites in the northeast (i.e., Kirk Corner Notched and Bifurcate Base points). Some ground and pecked stone implements such as adzes, gouges and stone rods (a specialized type of abrader associated with the Middle to Late Archaic period) have also been identified on earlier sites. Early Archaic sites have been identified on the Kennebec River and the Piscataquis River.

Near the Columbia Falls Project area, a site situated on Meddybemps Lake may add information about the Early Archaic period in eastern Maine.

The Middle Archaic period is characterized as a period of continued adaptation to the emerging temperate climatic conditions. Middle Archaic period projectile points have been recovered in larger amounts more recently in southern Maine. Several new technological innovations appeared during the Middle Archaic period in the broad region including most commonly stemmed projectile points of the Neville and Stark types (Dincauze 1971 Snow 1980:182-184). Other artifact types associated with the Middle Archaic and subsequent Late Archaic period include fully-grooved gouges, adzes, stone rods, grooved axes, large ground stone semi-lunar knives, notched net-sinkers and plummets, and ground-stone spear-throwers (atlatls). Middle Archaic sites are situated on or near bodies of water or adjacent to rapids which suggest the continued importance of fish (e.g., Brigham et al. 2001, Petersen et al. 1994, Robinson 1987; Sanger and Newsom 2000). The Sharrow and Brigham sites on the Penobscot River and the Dennison Site on the Kennebec River are just three examples of deeply stratified sites minimally attributable to the Archaic period (e.g., Heckenberger et al. 1990; Petersen and Putnam 1992; Petersen 1991b).

Late Archaic period sites, ca. 4000-1000 B.C are much more common locally and regionally. These sites represent a variety of regional complexes (e.g., Borstal 1982, Bourque 1976, Hamilton et al. 1984, Kopec 1985; Sanger 1971; Sanger 1973; Tuck 1984). Late Archaic remains attributable to the Laurentian tradition, ca. 4000-3000 B.C., Moorehead complex, ca. 3000-1800 B.C.; and Susquehanna tradition, ca. 1800-1000 B.C., are known from all major river drainages (e.g., Butler and Hadlock 1962; Bourque 1976; Hamilton et al. 1984; Hamilton et al. 1990; Nicholas 1982; Sanger 1981; Will et al. 1996). The Moorehead phase is associated with the Red Paint cemeteries described initially by Warren K. Moorehead (1922) and based upon earlier work by C.C. Willoughby (1901). Stone artifacts associated with the Late Archaic period include the adze, gouge, plummet and ulu. The Late Archaic period sees the emergence of ceremonial objects (e.g., ground-slate bayonets (elongated and serrated bayonet-shaped stone tools of uncertain, but possibly ceremonial function), small zoo-morphic plummets and plummet-like objects, animal effigies and stemmed points). Site size varies from small camps to large settlements and is found in diverse environmental locations including riverine, lake, and wetland settings, as well as smaller sites in upland areas.

The Woodland (Ceramic) period is often distinguished from earlier prehistoric periods by significant changes in technology (production and use of ceramics and the bow and arrow), an intensification of subsistence practices (domestication of plants), increasing trends toward sedentism and larger settlements, and changes in social organization (Corey et al. 1997, Cowie et al. 2000; Ritchie 1980:179-180; Will et al. 1996; Versaggi 1999). Similar to the preceding cultural period, the Woodland (Ceramic) period has been divided into three subperiods; Early Woodland period, ca. 1000-100B.C., Middle Woodland period, ca. 100 B.C.-A.D. 1000; and Late Woodland period, ca. 1000-1600 A.D. Evidence of all three Woodland (Ceramic) periods are known within the Kennebec River drainage (e.g., Cowie et al. 2000; Petersen and Sanger 1991, Spiess 1984; Spiess 1999; Cox 1996; Spiess, Petersen and Hedden 1983). The first evidence of the cultivation of non-native plants reflects a general trend towards larger populations. Sites containing evidence of cultigens are few and have been recognized in the Saco, Androscoggin and Kennebec river drainages of Maine in both coastal and interior settings (e.g., Heckenberger and Petersen 1988; 1990).

The early portion of historic times is known in New England as the Contact period, ca. A.D. 1600-1750. During this period, local Native American populations entered recorded written history through interaction with Europeans. The archeological record of the Contact period is

seen by a combination of traditional and European traits. Inevitably, traditional Native American technology was replaced by European goods as contact increased. During the earliest portion of this period, the English and Dutch founded settlements on or near the Atlantic coast and the French on the St. Lawrence River. These groups competed for control of vast amounts of natural resources, namely fur. An English trading post and a major Indian village/camp were located in Machias during 1631-1635 (Bourque 2001:130). Other European influences were felt by the Native American populations along the Kennebec River during the late seventeenth century (e.g., Cowie et al. 2000, Prins 1984).

4.0 BACKGROUND RESEARCH

JMA conducted background research for the Columbia Falls and Moscow OTHB-E radar stations in conjunction with the Phase I survey. Historic documents and maps were researched to determine the potential of historic archeological sites located on each radar station. Personal interviews were also conducted with Air Force personnel at each facility, as well as with local residents. No prior archeological research has been conducted and no previously recorded sites have been recorded, at either radar station. JMA conducted additional research at the Cherryfield and Bingham Historical Societies.

4.1 COLUMBIA FALLS, WASHINGTON COUNTY, MAINE

The town of Columbia Falls was established in 1863. Early accounts state that the town of Machias was settled by English colonists in 1763. The English had a trading post on Machias Bay (Bourque 2001). Machias was a thriving lumber port and shipbuilding center during the nineteenth and twentieth centuries. From 1842 until 1892 the Palmer and Machiasport railroad and later the Whitneyville and Machiasport railroad hauled lumber out of this area. Because of this industry other areas along the coast later became populated.

From 1796 to 1863 the town of Columbia Falls was part of the town of Columbia. One of the first residents of Columbia Falls was Captain Thomas Ruggles who came from Rochester, Massachusetts in 1795. He was a prominent businessman who bought a large tract of land, acquired a saw mill, was the town postmaster, the Captain of the local militia, and a great lumber baron in eastern Maine.

The town of Columbia Falls was established in 1863. Early accounts state that the town of Machias was settled by English colonists in 1763. The English had a trading post on Machias Bay (Bourque 2001). Machias was a thriving lumber port and shipbuilding center during the nineteenth and twentieth centuries. From 1842 until 1892 the Palmer and Machiasport railroad, and later the Whitneyville and Machiasport railroad, hauled lumber out of this area. Because of the productive lumber industry, other areas along the coast later became populated.

Populations in the area decreased during the depression with employment opportunities elsewhere as a result of the Work Progress Administration (WPA). Many local inhabitants, including Passamaquoddy and Micmac people, left this area to find work (Bourque 2000:226). The 1943 USGS 15-minute map of *Tug Mountain, Maine*, shows one structure within the vicinity of the Columbia Falls project area (Figure 5). This structure is situated in the approximate location of the Sector 1 radar pad and was removed during the construction of Sector 1.

GE Aerospace built a prototype of the OTHB-E in the late 1970s and the full-scale facility was accepted by the Air Force in 1990. By the end of the Cold War the radar facilities were reduced to warm storage status with limited operation and personnel. Although the radars were used intermittently by the National Oceanographic and Atmospheric Administration (NOAA) for environmental monitoring, in 1998 the radars were reduced to cold storage with minimum personnel and no active use. Today, two personnel are employed at each radar station.

Many people of the Columbia Falls area are seasonally employed by Cherryfield Foods, who own and leases land from the ACC at the Columbia Falls station for blueberry and cranberry production (see Plate 1). The Passamaquoddy and Micmac tribes also lease land from the ACC

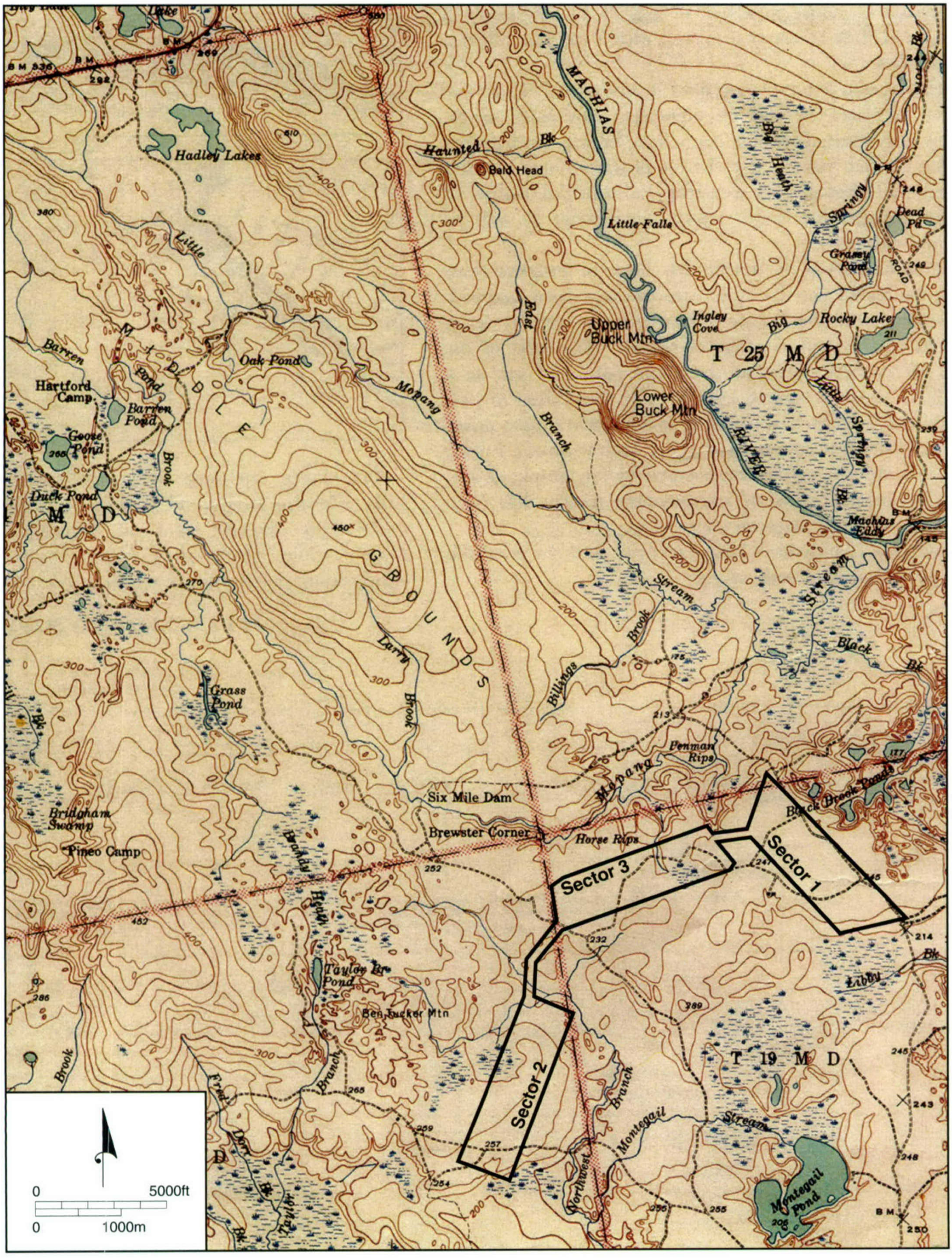

Figure 5. USGS (1943) 15-minute map of *Tug Mountain, Maine*, showing the approximate location of the Columbia Falls Radar Station.

Plate 1. View east of soil erosion caused by blueberry harvesting equipment (in background) in Sector 1 at the Columbia Falls OTHB-E Radar Station.

for blueberry harvesting, although they harvest the crops by hand rather than with machinery. There are several seasonal camps owned by the Micmac and Passamaquoddy tribes adjacent to the Columbia Falls station. The population of Columbia Falls today is 552 people.

4.2 MOSCOW, SOMERSET COUNTY, MAINE

The town of Moscow is situated on the Kennebec River in Somerset County, Maine. The Kennebec has its source at the outlet of Moosehead Lake. Benedict Arnold and his men crossed the Kennebec River near the town of Caratunk in 1775 during the campaign to Quebec. The men under Arnold returned to Massachusetts with reports of the beautiful, fertile valley of the Kennebec (Bingham Historical Society 1962). Small settlements had been established along the Kennebec at Hallowell and Waterville, Canaan and Norridgewock. The first white settler of Moscow was William Fletcher in 1764. He was originally from Concord, Massachusetts. Fletcher was followed by Ephraim Wood in 1784 who was the founder of the first Congregational Church in 1805. The first frame house in Bingham was built by Samuel Baker in 1784. Until about 1800 Baker's house was still the only framed house in Bingham. In 1804, Isaac Temple built the first sawmill in Moscow on Austin Stream. Moscow was incorporated in November 1816 and held the first town meeting at the home of Joshua Goodrich. Goodrich gave land to the town for a cemetery. He also built a saw and gristmill on Mill Brook (Wells 1869). At this time there were 30 or 40 families in the township. In 1820 the Maine Militia was established and defended the area including the towns of Bingham, Cornville, Brighton, Moscow and Solon. Each town furnished its own arms and equipment.

JMA consulted historic maps and documents at the Bingham Historical society (Godfrey 1882, Varney 1881, Wells 1869) and conducted interviews with local informants (Mr. Robert Hammond and Mr. John Owens). The (1905) USGS 15-minute quadrangle map of *Bingham, Maine* shows two structures south of the radar station along what is now the Stream Road. No structures are shown within the radar station property. This map also shows an extensive wetland east of Chase Pond, in the approximate location of Sectors 1 and 2 (Figure 6). By 1956 one structure is shown outside of the Moscow OTHB-E radar property at the base of this wetland. The wetland shown on the 1905 map has significantly decreased in area. Current aerial photographs of the Moscow OTHB-E radar station show no wetlands within the vicinity of Sector 2 (Figure 7).

The construction of Wyman Dam began in 1928. Wyman Dam replaced a natural course of rapids 140 feet high. The top of the dam is approximately 3,000 feet long and its crest is about 150 feet above the water on the downstream side. The Wyman dam has created an artificial lake 12 miles long and a mile and a half at its widest point. The town of Bingham boomed during the construction of the dam. Nearly 300 new homes were built in the town for the purpose of housing the workers. The settlement was laid out by a man named Daggett and contained dormitory-like accommodations and a school. Many of the workers employed in the construction of the Dam continue to reside in Daggettville today.

The 1956 USGS map of the area shows one structure west of the Moscow OTHB-E radar property along Bassett Brook at the base of this wetland (Figure 7). This map also shows the previous route of the Central Maine Power Company (CMP) Power line Right-of-Way (ROW) through Sector 3. The power line was constructed across the stream previously located on the 1905 map; the stream is no longer visible on the 1956 map. Once the ACC purchased the property and began construction of the Sector 3 radar towers, the power line ROW was changed to avoid this sector (see Plate 13, Figure 16). Current aerial photographs of the Moscow OTHB-E radar station show no wetlands within the vicinity of Sectors 1 or 2 (Figure 7) or a stream in Sector 3.

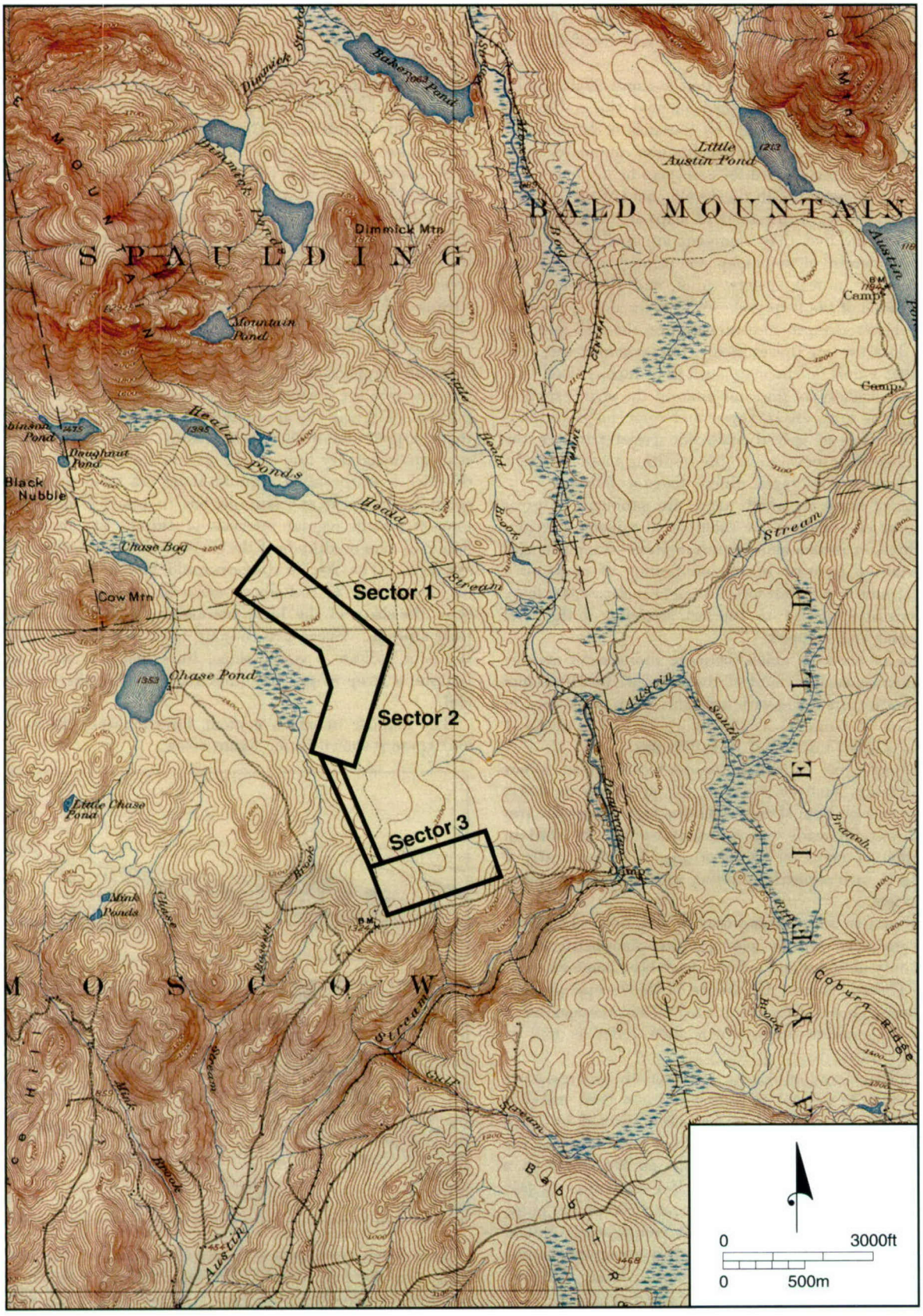

Figure 6. USGS (1905) 15-minute topographic map of *Bingham, Maine* showing the approximate location of the Moscow Radar station.

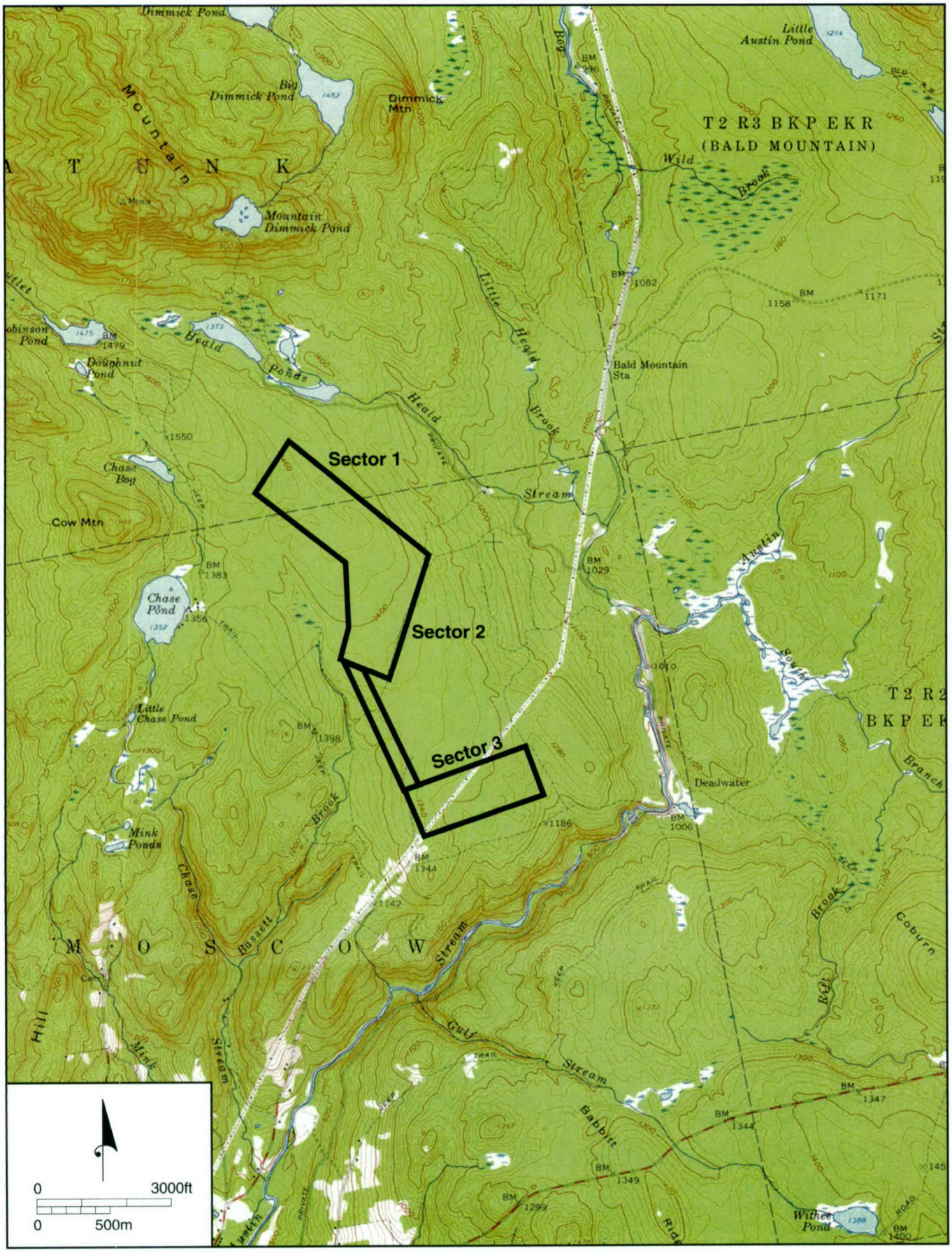

Figure 7. USGS (1956) 15-minute topographic map of Bingham, Maine showing the approximate locations of the Moscow Radar Station.

The Moscow OTHB-E radar station was first developed by GE Aerospace as a prototype in the late 1970s and accepted by the Air Force in 1990. By the end of the Cold War the radar facilities were reduced to warm storage status with limited operation and personnel and while used intermittently by the NOAA, in 1998 the radars was reduced to cold storage with minimum personnel and no active use. Today, two people are employed at the Moscow OTHB-E radar station.

5.0 FIELD AND LABORATORY METHODS

The archeological Phase I survey of the Columbia Falls and Moscow OTHB-E radar stations was designed to identify prehistoric and historic archeological sites at each facility. Archeological field work included three tasks: 1) identification of all disturbed areas within each facility, 2) identification and documentation of archeologically sensitive landforms, and 3) conducting archeological survey of areas believed to be archeologically sensitive.

5.1 FIELD WORK METHODS

JMA conducted an archeological Phase I survey over the course of 20 days from August 4 to August 28, 2003. Prior to the commencement of the survey work JMA personnel received an orientation at each radar site by station personnel. As-built maps, aerial photographs and photographs of each station were consulted prior to beginning field work. These materials helped to identify areas of previous disturbance. A vehicle inspection was conducted to identify and map the vast areas of previous disturbance associated with the construction of the radar stations, as well as to identify all landforms that had the potential to contain archeological deposits. All of these areas were marked on project maps. The vehicle inspection also helped to determine property boundaries.

As a result of the station orientations and the vehicle surveys, JMA determined that large portions of both the Columbia Falls and Moscow radar stations have been extensively disturbed. During the construction of each facility, large-scale grading and filling activities occurred. At the Columbia Falls radar station large-scale extraction of glacially deposited sands and gravels occurred within Sector 3 (see Appendix II). The excavated sediments were transported elsewhere within the facility for the construction of the radar tower pads, to fill in large topographic features such as kettles, glacial deltas and wetlands. Other modifications to the landforms included the creation of artificial ponds and wetlands and channeling of streams, rivers and tributaries. Many of the potentially sensitive areas which may have existed at the Columbia Falls facility are no longer extant. Despite the extensive disturbances identified and recorded within the two radar stations, several areas of archeological potential were identified. These are all located on portions of the Columbia Falls OTHB-E radar site outside of the fenced radar tower areas. No subsurface investigations were conducted within any of the areas within the fenced radar towers because of the extensive prior ground disturbance in these areas documented on as-built maps of the facility. STUs were excavated at one area within Sector 3 at the Moscow station that appeared to be undisturbed by the construction of the facility.

All exposed ground surfaces at the Columbia Falls and Moscow OTHB-E radar stations were inspected. Areas were visually inspected for the presence of Native American or historic artifacts. All Native American and historic artifacts identified from the surface of the project area were flagged and mapped. Data was recorded for all surface collected artifacts using a hand-held Trimble *GeoExplorer 3* GPS unit for mapping (see Figures 8-17) purposes. Portions of the stations that were obviously exposed due to the construction of the radar pads and/or associated with the extraction of glacial sediments were not inspected. Several problems were identified during the survey with regard to the surface collection of lithic material. The lithic material identified on the surface has been subjected to extreme temperature changes and exposed to other natural elements. These conditions have caused the lithics to weather and erode and sometimes exhibit characteristics generally suggestive of Native American lithic artifacts. Fire Cracked Rock (FCR) presented another sampling problem in terms of the identification of surface lithic material. Blueberry barrens are burned to aid in the regeneration of the plants. The heat generated

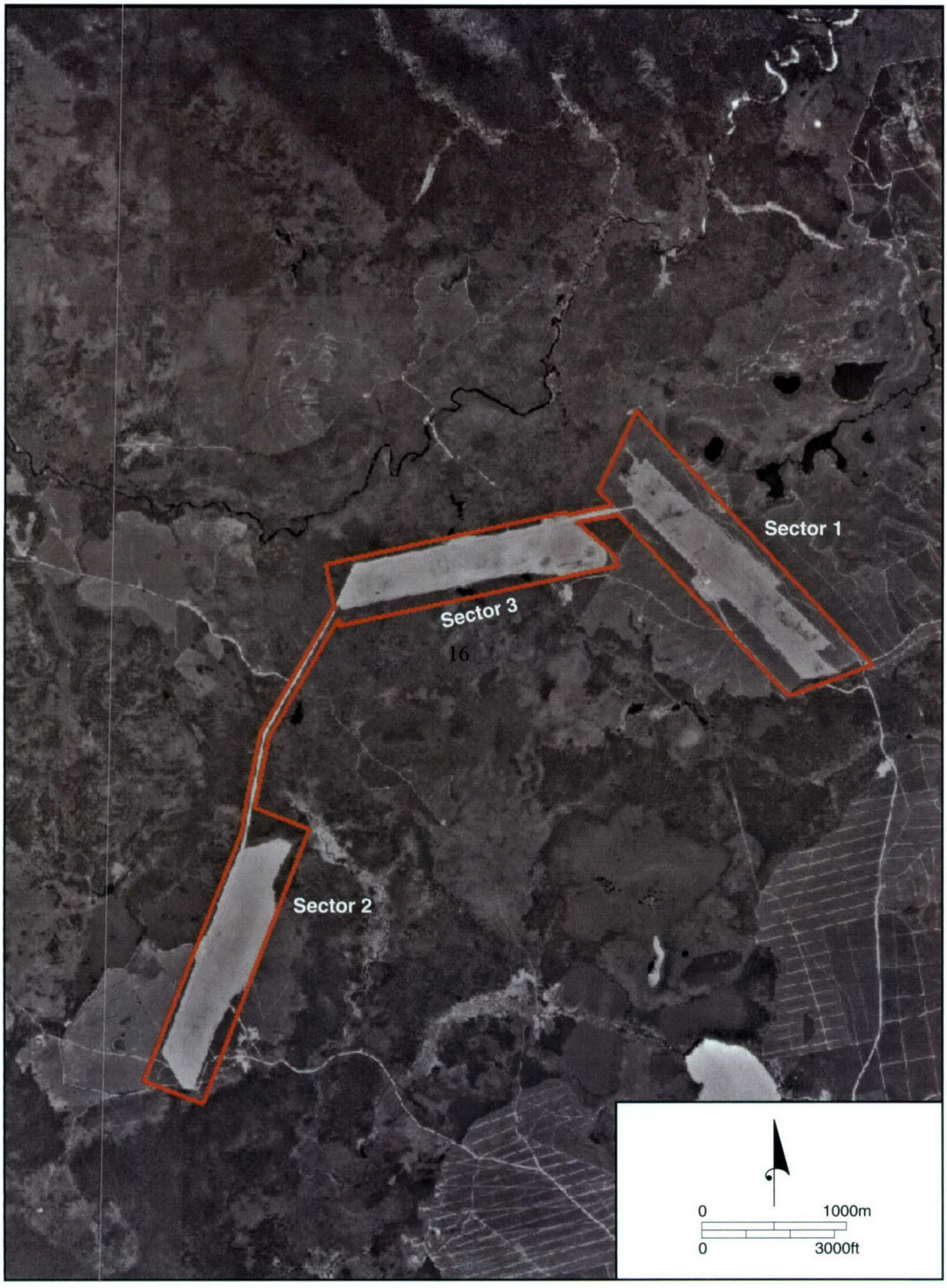

Figure 8. Aerial photograph of the Columbia Falls OTHB-E Radar Station showing sector locations and areas of disturbance (in gray).

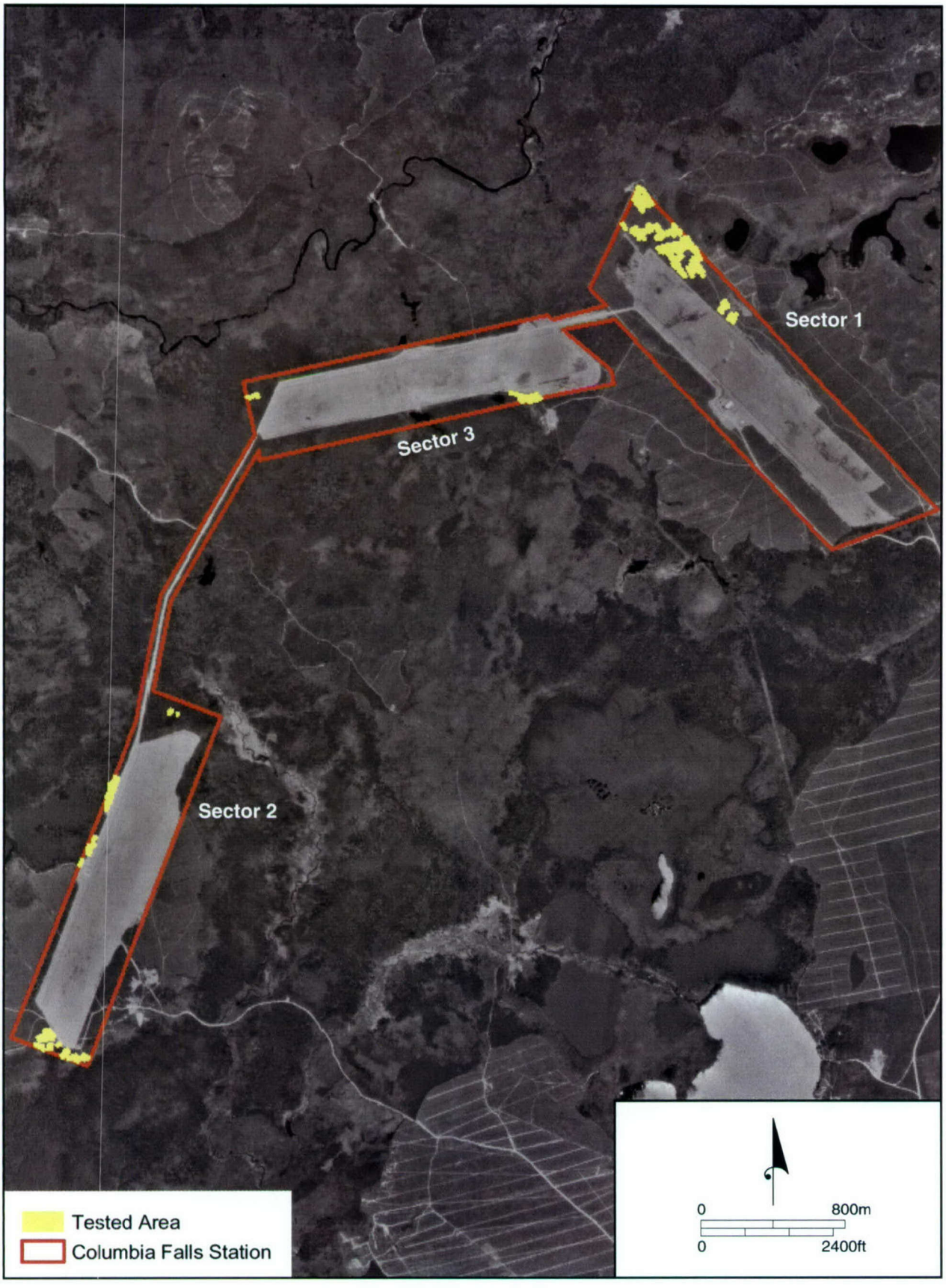

Figure 9. Aerial photograph of the Columbia Falls OTHB-E Radar Station showing all areas of archeological survey.

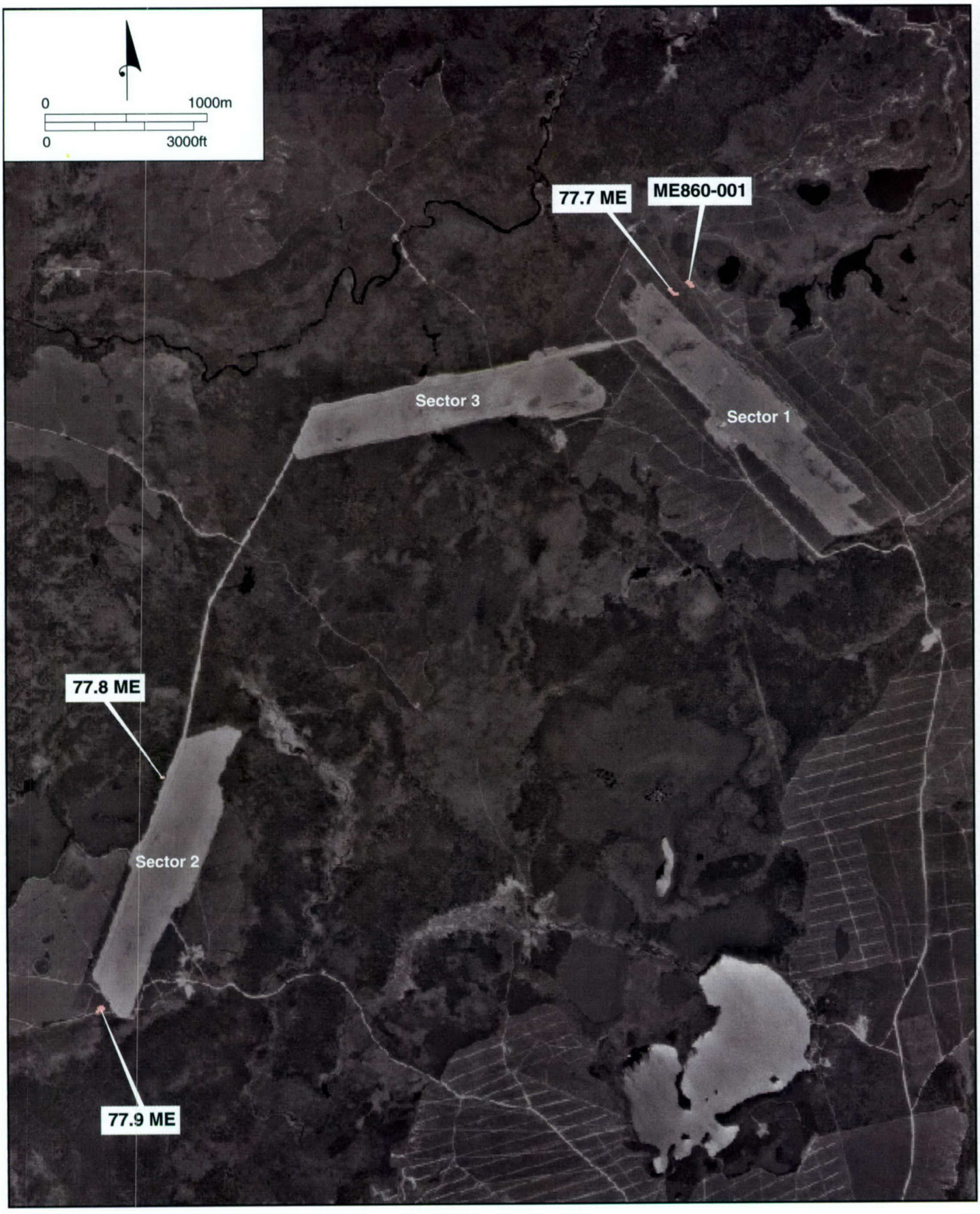

Figure 10. Aerial photograph of the Columbia Falls radar station showing the locations of sites 77.7 ME and ME 860-001 in Sector 1 and sites 77.8 ME and 77.9 ME in Sector 2.

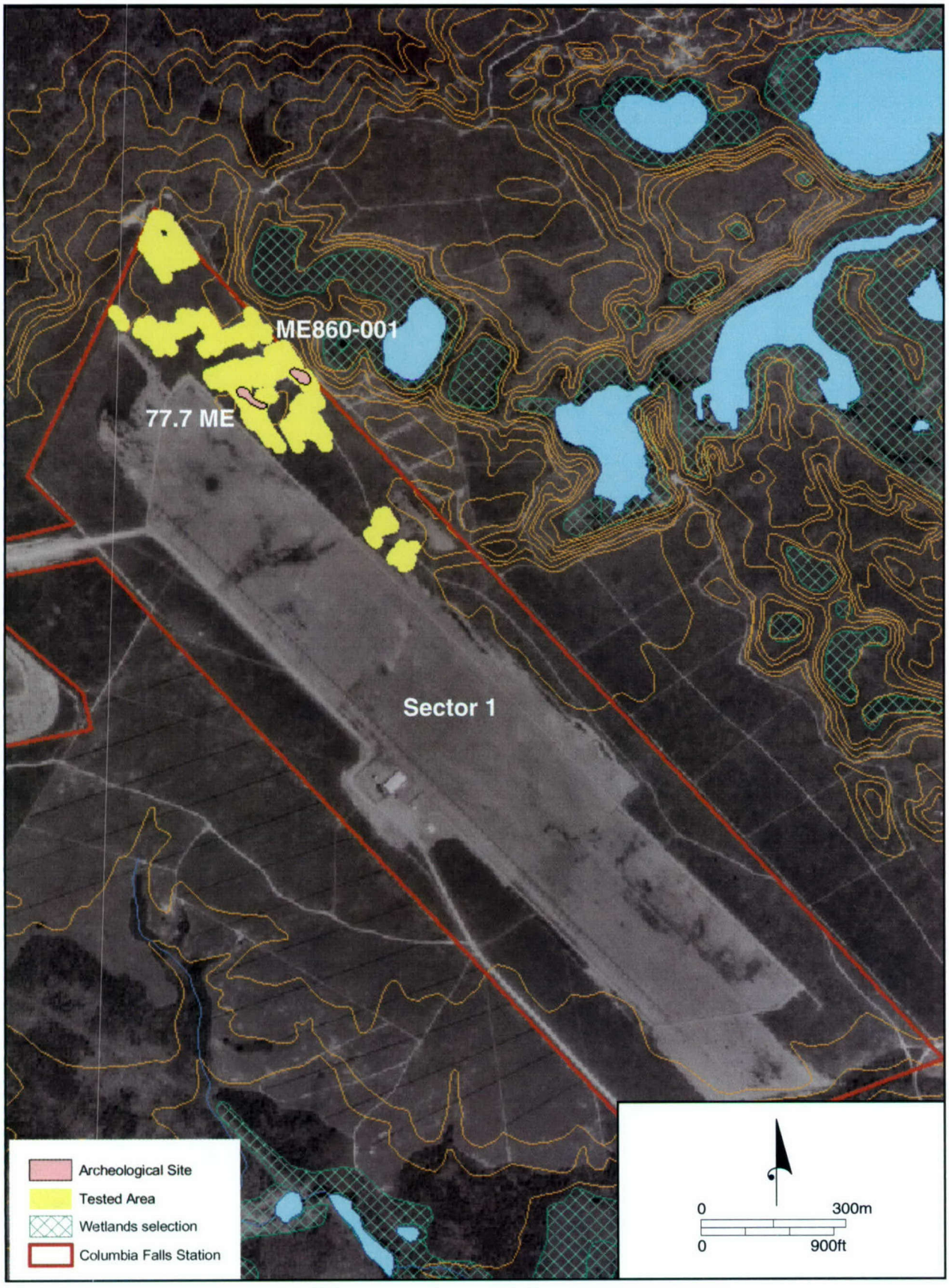

Figure 11. Aerial photograph of Sector 1 in the Columbia Falls OTHB-E Radar Station showing the locations of Site 77.7 ME and Site ME 860-001.

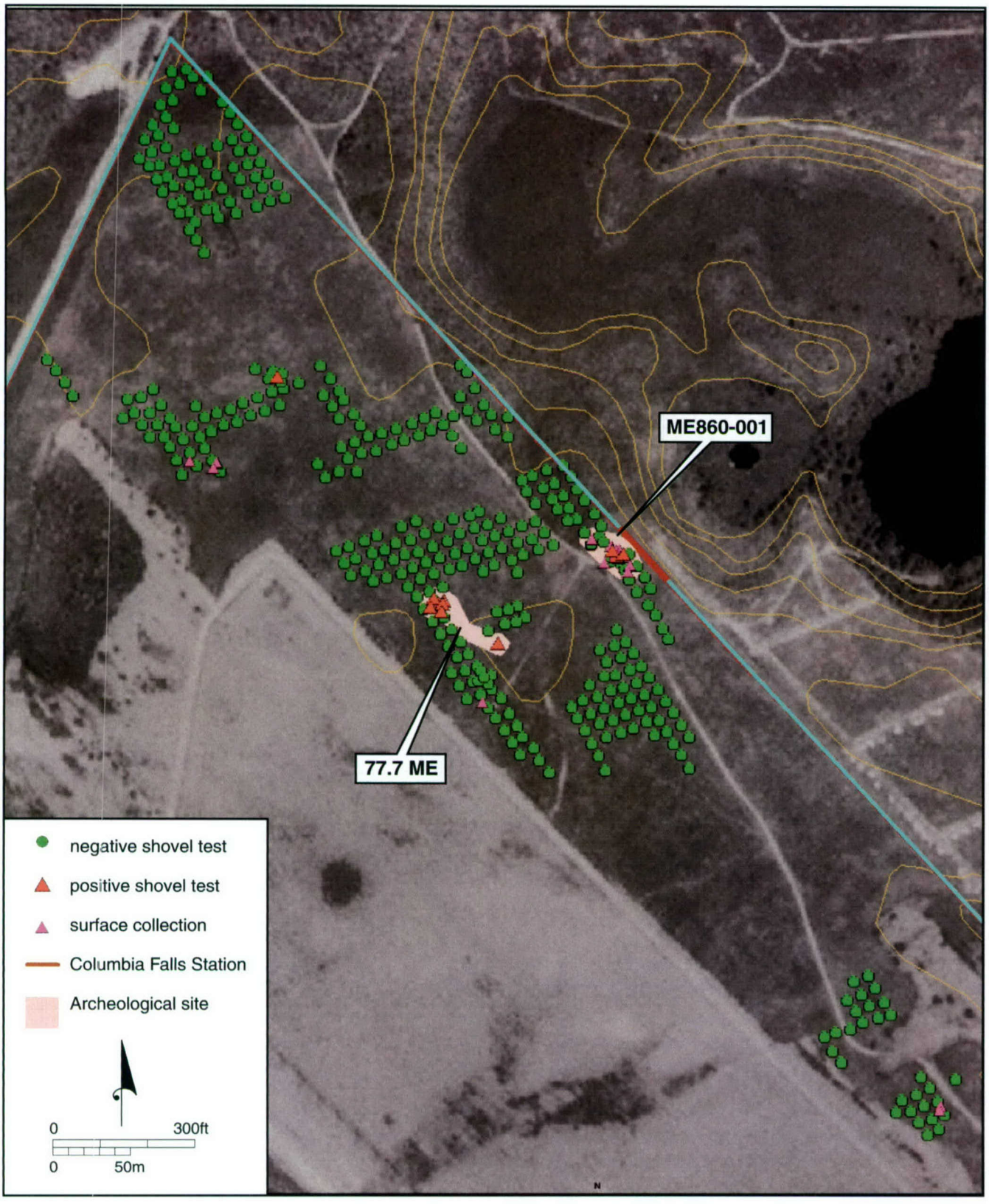

Figure 12. Aerial photograph of Sector 1 in the Columbia Falls OTHB-E Radar Station showing the GPS data points for all excavated STUs and the locations of Sites 77.7 ME and ME860-001.

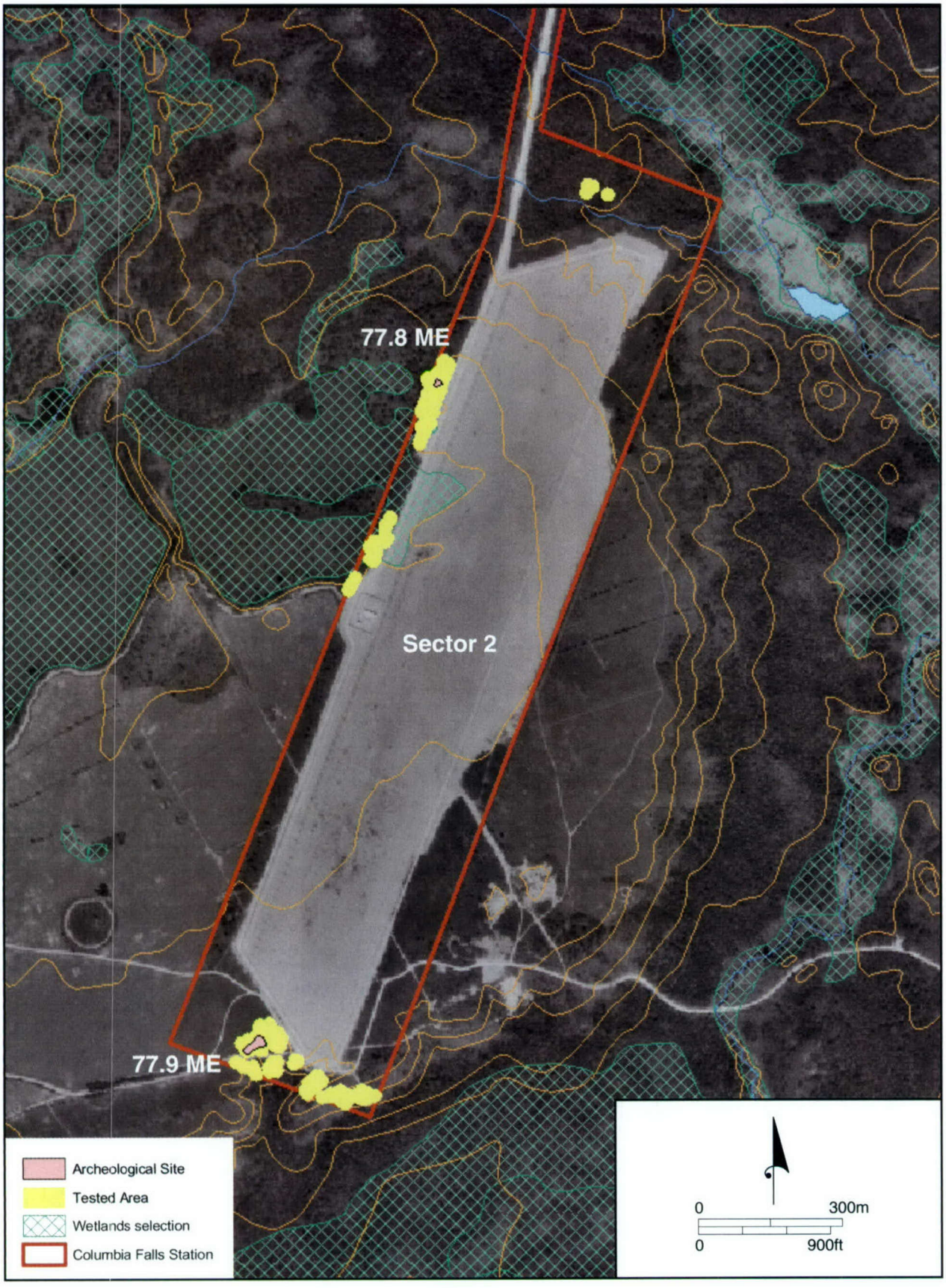

Figure 13. Aerial photograph of Sector 2 in the Columbia Falls OTHB-E Radar Station showing the glaciofluvial landform and the locations of sites 77.8 ME and 77.9 ME.

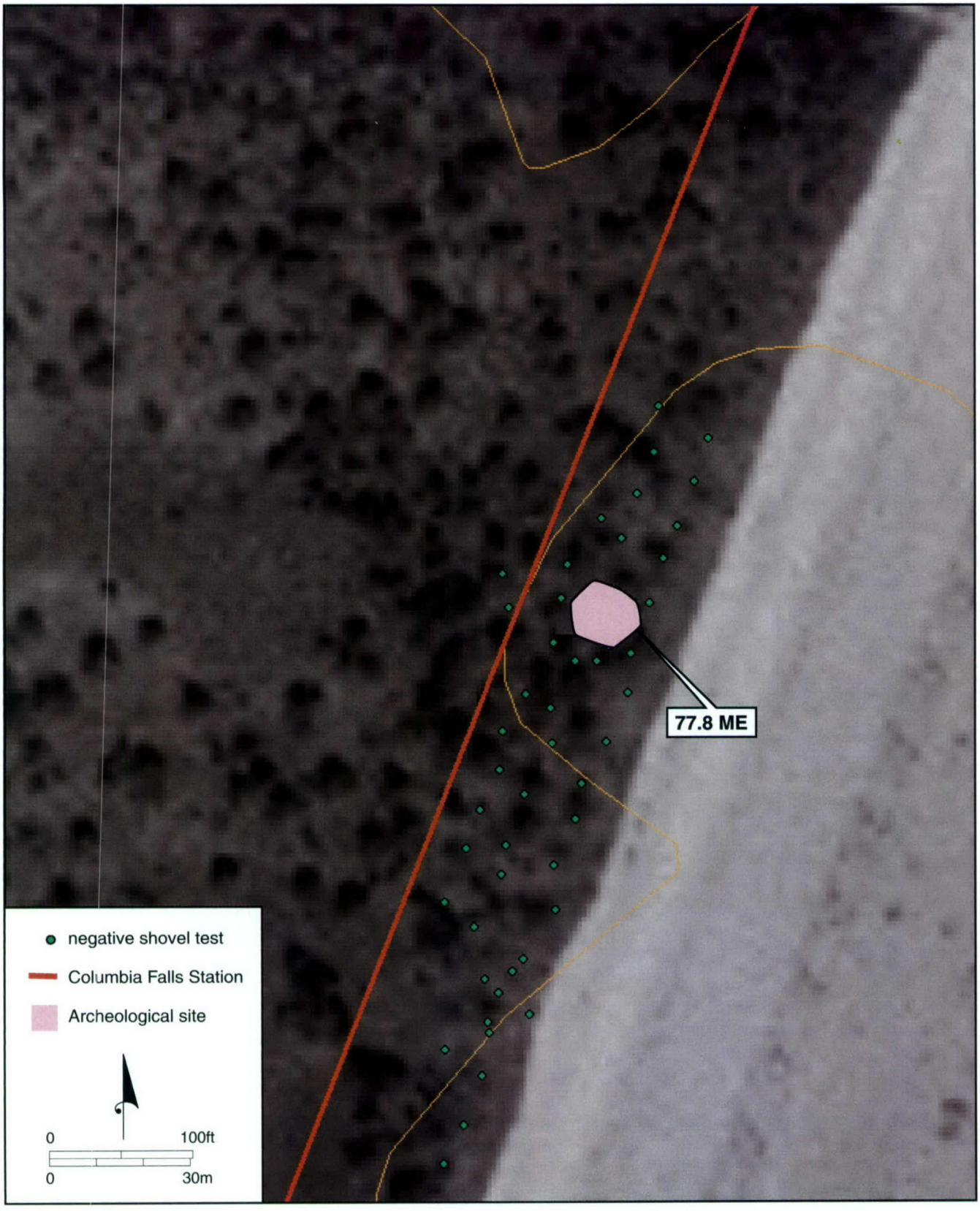

Figure 14. Aerial photograph of Sector 2 in the Columbia Falls OTHB-E Radar Station showing GPS data points for all excavated STUs and the location of Site 77.8 ME.

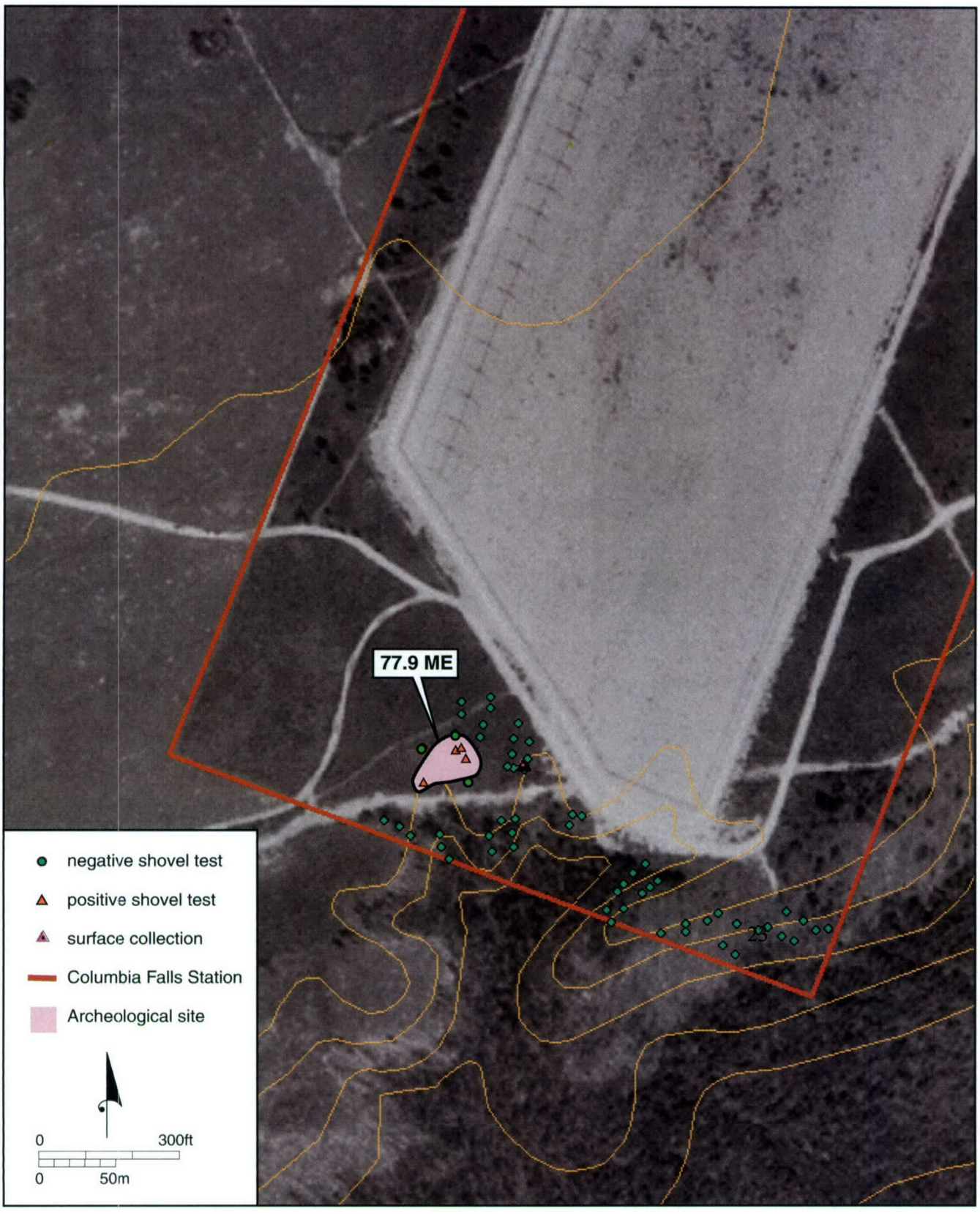

Figure 15. Aerial photograph of Sector 2 in the Columbia Falls OTHB-E Radar Station showing the GPS data points for all excavated STUs and the location of Site 77.9 ME.

Figure 16. Aerial photograph of the Moscow OTHB-E Radar Station showing the location of the three sectors as well as the areas of disturbance (in gray).

Figure 17. Aerial photograph of the Moscow OTHB-E Radar Station showing areas of archeological survey.

during the burning can redden and crack lithic material which may then be mistaken for culturally modified material. Additionally, the threshing actions of the blueberry harvesting equipment also alter lithic material in a way that could be mistaken for material modified by Native Americans.

Shovel Test Units (STUs) were placed within all areas where artifacts were identified on the ground surface as well as in areas considered to be archeologically sensitive. STUs measured 50 x 50 cm in diameter and were placed at 10 m intervals along linear transects. All STUs were excavated by 10-cm levels within natural soil strata with all excavated sediments screened through 1/4-inch mesh to recover all cultural remains within a particular STU. The location of all each STU was recorded with the hand-held Trimble *Geoexplorer 3* unit. This mapping technique was used to allow for the relocation of all positive STUs in the future, if necessary.

The methodology used in Site 77.7 ME was modified at the end of the project to determine if a sampling bias was present in the survey. Sediments excavated from four additional STUs were passed through nested screens of 1/4-inch and 1/8-inch mesh. The change in methodology was used to determine whether micro-lithic debitage was present at this site. All cultural remains recovered were placed in plastic zip-lock bags upon which all provenience information was recorded. All provenience information recorded from the excavated STUs is presented in Appendix I.

5.2 LABORATORY METHODS

Following the completion of the Phase I archeological survey all recovered cultural material and associated field forms, maps and photographs were brought back to the JMA Croton-on-Hudson, New York office for processing and analysis. All newly identified sites were recorded with the MHPC and were assigned a unique State of Maine trinomial site number.

All Native American lithic artifacts recovered from this project were washed and air dried. Lithic material was separated by material type and where possible, by cultural association. Historic period cultural remains were similarly processed with the exception of metal and cast iron, which was dry-brushed. The provenience information for all excavated STUs and associated cultural remains have been included as Appendix I in this report.

All cultural material, maps, photographs and records from this study are temporarily being stored at the JMA Croton-on-Hudson, NY office. Following the completion of all cultural resources requirements for the Columbia Falls and Moscow OTHB-E radar stations, all records and collections will be transferred to the Maine State Museum for permanent curation.

6.0 FIELD WORK AND RESULTS

6.1 INTRODUCTION

This section presents the results of the field work conducted for the ACC at the Columbia Falls and Moscow OTHB-E radar stations. The purpose of a Phase I archeological survey is to determine whether Native American or historic archeological sites exist within the Columbia Falls and Moscow site boundaries. The Columbia Falls radar station was determined by the MHPC to be highly sensitive for the presence of Native American sites, while the Moscow radar station was determined to have low archeological sensitivity (Dr. Arthur Spiess, June 2003). Based on recommendations of potential site sensitivity from the MHPC, 15 crew days were spent at the Columbia Falls station and five crew days were spent at the Moscow station.

6.2 COLUMBIA FALLS OTHB-E RADAR STATION

The Columbia Falls radar station is composed of three discrete areas that are connected to each other by long, narrow paved roads (Figure 8). These three areas were designated Sectors 1, 2 and 3. The property on which the radar station is situated was extensively disturbed during construction of the radar sectors. These areas of disturbance are shown in gray on Figure 3. The As-built maps for each sector show the extent of excavation, filling, grading and culvert placement activities that were undertaken on the property during the construction of the radar station (see Appendix II). Intact landforms were identified outside of the radar tower arrays; these areas were the focus of the Phase I survey. Figure 9 shows the location of survey areas in Sectors 1, 2 and 3. Other disturbances identified within the Columbia Falls station include soil erosion from Cherryfield Foods blueberry harvesting machines (Plate 1).

The Phase I archeological survey of the Columbia Falls radar station included both surface inspection and subsurface investigations. A pedestrian surface inspection of all exposed ground surfaces was conducted to identify exposed Native American and historic cultural material. The subsurface portion of the survey consisted of the excavation of 651 50 x 50 cm shovel test units. A total of 396 STUs were excavated in Sector 1, 169 STUs in Sector 2, and 86 STUs in Sector 3. As a result of this survey three Native American sites (77.7 ME, 77.8 ME and 77.9 ME) and one historic site (ME 860-001) were identified (Figure 10).

6.2.1 SECTOR 1

Sector 1 is located in the northeastern-most portion of the Columbia Falls project area (see Figure 8). One Native American site (77.7 ME) and one historic site (ME 860-001) were identified in the northeastern corner of Sector 1 (Figures 11, 12). Sector 1 is characterized by relatively flat, to gently rolling hills in its southern and western portions and by numerous basin-shaped kettle features in the northeastern portion of the sector. Many of the kettles located in this area were bisected, filled and graded. These actions occurred during the construction of the radar station. Other kettles are intact. Many of these kettle features have associated wetlands. The areas around these features are considered to have the greatest potential to contain Native American sites. The archeological survey of Sector 1 concentrated on the intact kettle features and the wooded terraces along the northeastern station boundary. The wooded terrace areas in the northeastern portion of the sector lie above larger kettle features and ponds which are located beyond the limits of the survey area.

A visual inspection of all exposed ground surfaces was conducted during the Phase I archeological survey. Exposed ground surfaces include dirt roads, erosion ditches, and the thinly-vegetated areas within the blueberry fields. The subsurface survey concentrated on areas where artifacts were identified on the ground surface and on landforms that were considered to be archeologically sensitive. The as-built maps for Sector 1 show several roads that ran through Sector 1 prior to the station's construction (also see Figure 5).

Many of these roads were obliterated during the construction of the station. One road extends through the middle of the largest kettle in an east-west oriented direction (Plate 2). Very weathered Native American artifacts were recovered from the surface of the dirt road and on the surface of the blueberry barrens. Historic artifacts were also recovered from the surface of the eastern end of this dirt road and the blueberry barren that lies between the east-west and north-south oriented dirt roads.

The landscape exhibits evidence of a denuded surface where wind has removed the finer materials, with coarser sands and gravels remaining. During the excavation of shovel tests, it was noted that those located on the southern facing slopes of the kettles had finer sediment than those facing north. This trend is a likely indication that the landscape was exposed to high winds after the retreat of the ice sheet and before the movement of dense vegetation into the area. It should be noted that the south facing slopes are the location of identified sites and isolated finds.

A total of 396 STUs were excavated within Sector 1 (see Appendix I). STUs were placed in areas where cultural material was identified on the surface as well as other portions of the facility deemed likely to contain Native American and historic sites. Transects along which STUs were excavated were placed so that areas within and around five intact kettle holes would be adequately sampled. Additional sampling transects were placed in the wooded areas along the eastern boundary of the radar station. The wooded areas lie adjacent to and above two other kettles and the Black Brook Ponds which are not on the Columbia Falls property (see Figure 12). As a result of the archeological survey conducted within Sector 1, one Native American site (77.7 ME) and one historic archeological site (ME 860-001) were identified (Figure 12, Plates 3 and 5).

An isolated positive STU (T22.1) and an associated surface find were recovered in the northeastern portion of the sector. A small cluster of four pieces of fire cracked rock (FCR) was identified along the southwestern rim of a small kettle adjacent to a filled-in kettle in the northwestern portion of Sector 1. These areas are separated from site 77.7 ME by two smaller kettles and a distance of nearly 100 m (Figure 12). STU T22.1 is located on the northern edge of a mid-kettle divide on a slight downhill slope. The soil profile recorded for T22.1 consisted of a 10-cm level of blueberry root mat overlying a 10Y/R 3/3 dark brown silty loam. Stratum II consists of a 40-cm level of brownish yellow 10YR 6/6 fine silt (loess). One unifacially worked pebble was recovered from Stratum II between 20 and 30 cm b.g.s. Stratum III consists of glacial till (water-worn pebbles and cobbles) within a matrix of 10YR 6/4 light yellowish brown sand. Four additional STUs were placed around T22.1 at a 5 m interval, however no additional cultural remains were recovered. A possible cobble tool was identified on the surface of the blueberry barren approximately 50 cm east of STU T22.1.

Site 77.7 ME

Site 77.7 ME is located in the northeastern portion of Sector 1. The site is situated on a south facing slope within a large kettle (Figures 11 and 12). The kettle in which the site is situated is bisected by a dirt road. The dirt road runs through the kettle in an east-west direction. This road is shown on the As-built maps of the Columbia Falls property indicating that the road predated the

Plate 2. View east across large kettle showing dirt road and wetland. Note: Historic Site ME 860-001 is located on eastern ridge in background.

Plate 3. View northeast of Site 77.7 ME on southern slope of large kettle. Note: JMA project geoarcheologist recording GPS data.

Plate 4. Ground and pecked mortar and pestle recovered from Site 77.7 ME .

Plate 5. View south of historic Site ME 860-001 in Sector 1, Columbia Falls.

construction of the radar station. Native American artifacts were recovered from the surface of the dirt road and include an extremely weathered rhyolite flake, a rhyolite core, a chert core and one piece of FCR. A small wetland and two small glacial benches are located in the base of the kettle (see Plate 2). The kettle measures approximately 244 m by 122 m in diameter. The UTM coordinates for site 77.7 ME are 596960.412E 4961319.552N.

A total of 97 STUs were excavated within the kettle and around the mid-kettle divides. Two of these STUs (T46.6 and T55.2) contained Native American artifacts. Seventeen artifacts were recovered from the disturbed blueberry root mat, a tangled mass of roots and silty loam (which measured generally 10 cm deep). Sixteen artifacts were recovered from within an undisturbed 30-cm deposit of fine silty loam (loess deposits) identified immediately below the root mat. These artifacts were recovered between the depth of 6 to 43 cm b.g.s. (see Appendix I). The loess deposits were not present in all STUs. In many cases the root mat immediately overlay glacial till. Almost all of the STUs that contained loess were located on the southern facing slopes of kettles (see Section 2.0 above). No artifacts were recovered from the glacial till.

Four transects containing nine STUs were placed within two bench features situated in the base of the kettle. One piece of FCR and one weathered rhyolite flake were recovered from T55.2 between 22 and 53 cm b.g.s (Stratum III), within dark yellowish brown fine sandy loam (see Appendix I). Four STUs were excavated in a radial pattern around positive STU T55.2; however, no additional cultural material was recovered. The soil profile recorded within this STU recorded five distinct strata. Stratum I consists of 10 cm of blueberry root mat overlying a 12-cm level of dark yellowish brown 10YR 4/6 fine sandy loam (Stratum II). Stratum III consists of a 21-cm level of light olive brown 2.5Y 5/3 and 2.5Y 5/4 silty loam with medium sands. Stratum IV consists of a 27-cm level of brownish yellow 10YR 6/8 silty clay with less then 1% sands and gravel. Stratum V was recorded at 80 cm b.g.s. and consists of light gray 10YR 7/2 coarse sands with 30 % gravel. Coarse sands and gravels were identified at the base of Stratum V.

The second positive STU recorded within Site 77.7 ME (T46.6) is located on the northern side of the kettle on a south facing (downhill) slope. The soil profiles recorded within T46.6 consists of 9 cm of blueberry root mat and dark brown 10YR 3/3 silty sand. Stratum II was recorded at a depth of 9 cm b.g.s. and consists of a 26-cm deposit of yellowish brown 10YR 5/8 fine silt. Stratum III extended from 14-19 cm b.g.s. and consisted of 10YR 5/1 gray fine silt and Stratum IV consisted of an 11-cm thick deposit of yellowish brown 10YR 5/8 fine silt, or loess. One pecked granite mortar, one ground granite pestle (Table 1, Plate 4) and three pieces of FCR were recovered from Stratum IV. Stratum V consisted of brownish yellow 10YR 6/4 fine silt, sands and gravels (till). Four additional STUs were excavated around T46.6 at a 5-m interval however, no additional artifacts were recovered.

JMA modified the survey strategy used at site 77.7 ME on the last day of the project. Primary and secondary flaked lithic material had not been recovered from any of the STUs excavated within site 77.7 ME. The lack of these relatively common types of artifacts raised significant questions as to what, if any bias existed in the sampling methods used. Was tool manufacture occurring on site 77.7 ME? Or were the inhabitants of site 77.7 ME bringing finished stone tools to the site and re-sharpening them when needed? If tools were re-sharpened on site, micro-lithic debitage would be expected in the archeological record. To address this potential sampling bias, JMA excavated four additional STUs (T46.6.2.5E, T46.6.2.5W, T46.6.2.5N, and T46.6.2.5S) in a radial pattern around T46.6 at a distance of 2.5-m. The sediments excavated from the four radials were screened through nested 1/4- and 1/8- inch mesh screen. Micro-lithic debitage was recovered from all four radial STUs.

The north radial of STU T46.6 recovered two quartz flakes, one basalt flake and one rhyolite flake (1/8-in screen) in Stratum I (0-12 cm b.g.s.). No other cultural material was recovered from this radial. One quartz flake was recovered from the east radial in Stratum I (1/8-in screen). One ground and smoothed cobble was recovered from this STU in the 1/4 inch screen between 12-24 cm b.g.s (Stratum II). The dimensions of this cobble are presented in Table 1.

No additional cultural material was recovered from the east radial. The south radial yielded cultural material from both the 1/4 and 1/8 inch mesh screens. Four quartz flakes were recovered from the 1/8-inch screen and one basalt flake and one piece of FCR were recovered from the 1/4 inch screen in Stratum I. Four quartz flakes, one basalt flake, one greenstone flake, one chert flake and one piece of FCR were recovered from the 1/8 inch screen in Stratum II in the south radial. No additional artifacts were recovered from either Stratum II or III. Four quartz flakes were recovered from the west radial in Stratum I and two quartz flakes were recovered from Stratum II. All of these artifacts were recovered from the 1/8-inch screen.

Table 1. Ground and Pecked Lithic Attributes for Site 77.7 ME

Granite Pestle	**Weight**	**Length**	**Width (top)**	**Width (bottom)**	**Medial Thickness**	**Ground surface**
	3lbs, 13.7 oz	114.6 mm	74.8 mm	64.8 mm	51.2 mm	46.3 mm
Granite Mortar	**Weight**	**Length**	**Width (top)**	**Width (bottom)**	**Medial Thickness**	**Pecked surface**
	1 lb., 7.4 oz	155.6 mm	109.5 mm	74.5 mm	71.7 mm	50.7 mm
Ground Cobble	**Weight**	**Length**	**Width (top)**	**Width (bottom)**	**Medial Thickness**	**Ground surface**
	7.35 oz	93.0 mm	38.5 mm	65.7 mm	26.8 mm	55.7mm (max)

Based upon the presence of chronologically diagnostic ground and pecked stone tools, site 77.7 ME can be tentatively assigned to the Late Archaic Period, ca. 4000-1000 B.C. Relatively deep, wind blown sediments of late Pleistocene age were recorded in STUs excavated on the southern facing slopes within the kettle features. The recovery of macro-lithic tools and micro-lithic debitage from undisturbed sediments suggests that at least two types of activities were occurring at this site. In accordance with the MHPC guidelines, Phase II investigation is recommended for site 77.7 ME.

Site ME 860-001

Site ME 860-001 is located on the northeastern boundary of Sector 1 (Figures 11 and 12). The UTM coordinates for site ME 860-001 are 5970880E 4961354.91N. This site is located on the northeastern boundary of Sector 1 on the eastern ridge above site 77.7 ME (Plates 2 and 5). The site is bounded on the west and north sides by two dirt roads. One dirt road is oriented in an east-west direction and bisects the large kettle in which site 77.7 ME is situated. The other dirt road runs in a north-south direction along the rim of the large kettle. This road is used by facility personnel to maintain the property boundaries. It is also used by Cherryfield Foods to maintain the blueberry fields.

Site ME 860-001 was first identified during the visual inspection of this portion of Sector 1. Historic artifacts were identified on the surface of the dirt road and adjacent blueberry fields. Artifacts identified on the surface include cut and wire nails, cast iron woodstove fragments, ceramic (1 piece of blue transfer print dating to the late nineteenth century), window and bottle glass, shot gun shell casings (3), and sheet metal. All artifacts were designated with a unique surface collection number, the locations were flagged and the artifacts were collected. The

artifacts were all recovered from a square-shaped depression that measures approximately 24 x 16 feet (384 sq ft) in size.

Three transects (T35, T36 and T37) containing 19 STUs were set out across the site area. Two cast iron (woodstove) fragments, one cut nail and one piece of FCR were recovered from Stratum I in T36.6. The soil profiles identified within STU T36.6 consist of a 13-cm level of dark brown 10YR 3/3 silt and root mat (Stratum I). Stratum II consists of a 12-cm level of brownish yellow 10YR 6/6 sandy silt with 15% gravels. Stratum III (till) consists of sand, gravel and cobbles in a matrix of light yellowish brown 10YR 6/4 silt. No other cultural material was recovered from T36.3. Four radials were placed around T36.6 at a 5-m interval to determine the horizontal and vertical extent of the cultural deposits identified at Site ME 860-001.

Three wire nails were recovered from Stratum I and one piece of FCR was recovered from Stratum II in the north radial. The soils in the north radial consists of a 5-cm thick level of root mat and dark brown 10YR 3/3 sandy silt (Stratum I) overlying a 9-cm level of brownish yellow 10YR 6/6 sandy silt with 25% gravel (Stratum II). Stratum III consists of a grayish brown 10YR 5/2 silt with 30% gravel mottled with a dark brown 10YR 3/3 sandy clay. Cultural material was not recovered from Stratum III. The eastern radial of T36.3 contained one piece of salt-glazed earthenware. This artifact was recovered from Stratum I (0-7 cm b.g.s) which consists of a dark brown 10YR 3/3 sandy clay. Stratum I overlie a 10-cm level of grayish brown 10YR 5/2 silt. Stratum III consists of brownish yellow 10YR 6/6 sandy silty clay with 25% gravel (see Appendix I). No cultural material was recovered from either the south or west radials.

Site ME 860-001 consists primarily of a surface concentration of historic artifacts dating no earlier than the late nineteenth century. Evidence of features was not identified on either the surface or within any of the STUs excavated within the site area. All cultural material was recovered from either the surface of the site or from the first 15 cm of excavated sediment. This site likely represents the remains of a seasonal hunting camp which fell into disuse sometime before or immediately after the purchase of the property by the ACC. Based upon the glacial nature of the landform and the lack of deep stratigraphy, in the opinion of JMA there is little possibility that significant subsurface archeological deposits or features associated with this site. No further work is recommended for site ME 860-001.

6.2.2 SECTOR 2

Sector 2 is located at the southwestern end of the Columbia Falls OTHB-E radar station (Figures 3, 9 and 10). This sector is very different geologically from Sector 1. The southern portion of Sector 2 is located at the top of a draw on the edge of the glaciofluvial landform that overlooks an extensive wetland (Figure 13). The majority of Sector 2 has been disturbed by the construction of the facility (Figures 10 and 13). Like Sector 1, wooded areas and blueberry fields lie outside of the perimeter road and contain intact landforms. Numerous dirt roads and paths for irrigation equipment exist within this sector (Plate 6). Figure 9 shows the locations of subsurface investigations.

The archeological survey of Sector 2 included the inspection of all exposed ground surfaces to identify Native American and historic cultural remains. One weathered rhyolite flake fragment was recovered from the surface of a blueberry field within site 77.9 ME, described below. The archeological survey of Sector 2 was conducted in the southern, western and northern portions of the sector (Figure 9). All other portions of Sector 2 have been extensively disturbed by construction (Figure 8). A total of 169 STUs were excavated within Sector 2. Two previously unknown Native American sites (77.8 ME and 77.9 ME) were identified.

Plate 6. View south of irrigation pipes placed along glaciofluvial landforms in the southern portion of Sector 2.

Site 77.8 ME

Native American site 77.8 ME is located on a northwestern facing, level terrace in the north-central portion of Sector 2 (Figure 14). Archeological survey was conducted in this portion of the sector because the landform is located above an extensive bog which would have been an ideal location for large and small game procurement. The UTM coordinates for site 77.8 ME are 593885.28E 4958367.78N.

Native American artifacts were not identified during the surface inspection of this area. Thirteen transects (T18-T25) containing 57 STUs were placed across two distinct terraces which overlook the bog. STU T24.9 is located in the northern end of the terrace (Figure 14). The stratigraphy identified in T24.9 consisted of a 9cm thick deposit of very dark grayish brown 10YR 3/2 silt and root mat overlying a 24-cm thick level of light olive brown 2.5Y 5/6 sand. One reddened and modified pebble and one weathered rhyolite flake were recovered from Stratum II (9-34 cm b.g.s.). Stratum III consisted of a 10-cm thick level of light gray 10YR 7/2 sand with 15 percent gravel. No Native American artifacts were recovered from Stratum III. Four additional STUs were placed at a 5-m interval around T24.9. The north radial contained cultural material. The soil profiles recorded in the north radial of T24.9 consists of a 10-cm level of very dark brown 10YR 3/3 silty loam and root mat overlying a 7-cm level of light gray 10YR 7/2 silt. Stratum III consists of a 20-cm thick deposit of yellowish brown 10YR 5/6 silty sand. Two very weathered lithic flakes (rhyolite and basalt) were recovered from Stratum III. Stratum IV consisted of a 9-cm thick level of yellowish brown 10YR 6/6 coarse sands and 15 percent gravel. No additional artifacts were recovered from the radial STUs.

Site 77.8 ME contains intact sediments and lithic artifacts associated with an undetermined period of prehistory. In accordance with the MHPC guidelines, Phase II investigation is recommended at site 77.8 ME.

Site 77.9 ME

Site 77.9 ME is located in the southern end of Sector 2. The site lies approximately 48-m west of the Sector 2 radar pad in an open blueberry field (Figure 13, Figure 15). A total of 17 transects (T1-T14, and T27-T29) containing 53 STUs were placed within this portion of Sector 2. The site is situated on small, narrow glacial ridges and is bound in the north and south by two dirt roads. One of these roads is used for blueberry irrigation equipment (Plate 6). The UTM coordinates for site 77.9 ME are 593500.28E 4956973.12N.

A surface inspection of all exposed ground surfaces was conducted prior to the initiation of the subsurface survey of this area. Two very weathered rhyolite flakes were identified on the ground surface east of the site area. Nine linear transects containing 31 STUs were placed across this landform. Two STUs (T7.4 and T29.3) contained Native American artifacts.

STU T7.4 is located at the edge of a ridge in the center of the blueberry field. Two weathered rhyolite flakes were recovered in Stratum I of this STU. The soil profiles identified within this STU consists of 10 cm of root mat and very dark grayish brown 10YR 3/2 silt (Stratum I). Stratum II consists of an 18-cm level of yellowish brown 10YR 5/8 medium sands and gravels. Stratum III consists of a 12-cm level of light yellowish brown 10YR 6/4 sands and gravels. No other cultural material was recovered from T7.4. Four additional STUs were placed around T7.4 at 5-m intervals. One piece of FCR was recovered from the east radial in Stratum I (0-10 cm b.g.s). Stratum II consists of a 12-cm level of 10YR 5/6 sandy loam and Stratum III consists of a 31-cm level of yellowish red 5YR 5/8 silt mottled with light gray to gray 5YR 6/1 to 5YR 7/1 silt.

Four additional radials were placed around the east radial of T7.4 at 5-m intervals; however, only one radial contained additional cultural remains. A basalt flake was recovered between 8 and 31 cm b.g.s. (Stratum II) in the southeastern radial. Stratum I consists of an 8 cm level of root mat and very dark brown 10YR 2/2 silt and fine sand. Soil disturbance associated with a root was noted in the northwest corner of this STU. Stratum II consists of a 23-cm thick level of very pale brown 10YR 8/3 silt with fine to medium sands. Stratum III consists of a yellowish red 5YR 5/8 silt mottled with light gray to gray 5YR 6/1 to 5YR 7/1 silt. Stratum IV consists of coarse sands and gravels. No other artifacts were recovered from T7.4SE.

T29.3 is located approximately 24 m southwest of T7.4. The soil profile recorded within this STU consists of a 5-cm thick level of root mat overlying an 11-cm level of brown 10YR 5/2 and yellowish brown 10YR 5/6 sand. One weathered rhyolite flake and one basalt flake were recovered from Stratum II between 7-20 cm b.g.s. Stratum III consists of a 13-cm thick level of mottled brownish yellow 10YR 6/6 and light gray 10YR 7/1 sand. Stratum IV was identified at a depth of 35 cm b.g.s. This stratum consists of a strong brown 7.5YR 5/6 sand and gravel. Four STUs were excavated at 5-m intervals around positive STU T29.3; however, no additional cultural material was recovered.

This site was identified on the basis of three positive STUs. The site covers an area approximately 75 square meters in size. Two Native American artifacts were identified on the ground surface of the nearest outwash delta approximately 24 m to the east. Intact soil profiles were observed in each of the three positive STUs excavated within site 77.9 ME. In accordance with the MHPC guidelines Phase II investigation of this site is recommended.

Isolated Finds (IF)

Two STUS in Sector 2 yielded single artifacts that are outside of the boundaries of sites 77.8 ME and 77.9 ME. These single artifacts have been designated as isolated finds (IF). IF 1 is located 90 m south of site 77.8 ME (see Figure 14) and IF 2 is located 24 m southwest of site 77.9 ME (see Figure 15).

IF 1 consists was recovered from STU T23.6, located approximately 90 m south of site 77.8 ME (see Figure 14). The soils identified within T23.6 consists of a 6-cm thick level of very dark grayish brown 10YR 3/2 root mat overlying a light brown 7.5YR 6/4 silty sand. One weathered, modified rhyolite pebble was recovered from Stratum I between 0 and 10 cm b.g.s at the Stratum I/II interface. Stratum III consists of a yellowish brown 10YR 5/4 fine silty sand. Cultural material was not recorded within Stratum III. Four additional STUs were placed at 5 m intervals around positive STU T23.6, however no other cultural material was recovered.

IF 2 was recovered form STU T29.3 located approximately 24 m southwest of site 77.9 ME. The soil profiles recorded within this STU consists of a 5-cm thick level of root mat overlying an 11-cm level of brown 10YR 5/2 and yellowish brown 10YR 5/6 sand. Two weathered flakes were recovered from Stratum II between 7-20 cm b.g.s. Stratum III consists of a 13-cm thick level of mottled brownish yellow 10YR 6/6 and light gray 10YR 7/1 sand. Stratum IV was identified at a depth of 35 cm b.g.s. This stratum consists of a strong brown 7.5YR 5/6 sand and gravel. Four STUs were excavated at 5-m intervals around positive STU T29.3; however, no additional cultural material was recovered.

6.2.3 SECTOR 3

Sector 3 is the middle sector within the Columbia Falls radar station (Figures 8 and 9). The landscape of Sector 3 was greatly modified during the construction of the sector (Plates 7 and 8, see Appendix II). A stream valley that dissected this area has been filled, and the remaining landscape has either been excavated or filled. Original landscape features that were once present have been destroyed by these construction activities.

All exposed ground surfaces within Sector 3 were visually inspected for the presence of cultural remains (Plate 9). A total of 86 STUs were excavated within Sector 3. STUs were excavated along a high terrace overlooking a bog in the southeastern corner of the sector and on a small island within a bog in the northwestern corner of the sector (Figure 9). All remaining portions of this sector have been severely disturbed. No cultural material was identified in either the STUs excavated or on the ground surface. No further archeological work is recommended in Sector 3.

6.3 MOSCOW OTHB-E TRANSMITTER FACILITY

The Moscow OTHB-E radar station is located in Somerset County, Maine, and is composed of three sectors that are connected to one another by two relatively long, narrow dirt roads (see Figure 1, 2 and 4). The station lies between an elevation of 1267 ft a.m.s.l. and 1449 ft a.m.s.l. The property is bounded at lesser elevations by several ponds, streams and brooks, including Heald Pond, Heald Stream, Austin Stream and Bassett Brook (Figures 16 and 17). Preliminary evaluations of the Moscow OTHB-E facility indicated that numerous small streams, tributaries and wetlands were present within the station. However, these features are no longer extant and the drainage systems installed for the station have created artificial drainages and wetlands (Plates 10 and 11). Very few intact landforms were identified within this station (Plate 12). The as-built maps for the Moscow OTHB-E radar station show the extent of excavation, filling, grading and culvert placement activities that were undertaken during construction (see Appendix II). Very few areas within the station contain intact landforms. These potentially intact areas were identified on the western side of the dirt road between Sectors 3 and 2, and within the perimeter fence of Sector 3 (Figure 17).

The Phase I archeological survey of the Moscow radar station included surface and subsurface investigation. A pedestrian inspection of all exposed ground surfaces was conducted to determine the presence or absence of Native American and historic cultural material. Subsurface investigations at the Moscow station included the excavation of 63 50 cm x 50 cm STUs placed along 17 transects. Transect and STU locations were placed within areas considered to have the potential of containing archeological sites. Eleven transects were placed along the road between Sectors 3 and 2, and STUs were excavated along six transects within Sector 2. No other areas of archeological potential were identified within the Moscow OTHB-E radar station.

6.4 ARCHEOLOGICAL SURVEY ALONG THE DIRT ROAD CONNECTING SECTORS 3 AND 2

Sector 3 is the southern-most parcel in the Moscow radar station (Figure 17). Sector 3 is connected to Sector 2 by a long dirt road. The property boundary extends approximately 60 m west of the road and is limited on the east by the road. A power line extends along the western side of the road between Sectors 2 and 3 and then angles to the east on the southern side of Sector 1. Observed disturbances associated with the power line include dirt and rock push piles. Logging

Plate 7. View west along southern perimeter road in Sector 3. The excavation of gravel and the grading of this landform extend to the property boundaries.

Plate 8. View west along northern perimeter road in Sector 3. The top of the cut bank (right) is property boundary and indicates the original ground surface elevation prior to construction.

Plate 9. JMA crew conducting surface inspection of eroded cut bank in the eastern end of Sector 3. Note that the cut extended to the eastern property boundary (wooded post).

Plate 10. View west of drainage ditch along road in Sector 1 at the Moscow OTHB-E Radar Station.

Plate 11. View north of a wetland in Sector 3 at the Moscow OTHB-E Radar Station.

Plate 12. View south of the west side of Sectors 1 and 2 from the northern end of the Sector 1 property showing the deeply cut and graded landform.

and maintenance roads were also noted. The original location of the power line was approximately 30 m west of its present location. The poles were moved during the construction of the Moscow station. The path of the previous power line is still visible in Sector 3 (Plate 13).

Transects T1-T5 and Transects T8-T13 were located on four terraces identified along the western side of the road between Sectors 3 and 2. Two drainages flow beneath the dirt road in this area (Figure 17). Two transects (T1 and T2) containing six STUs and were placed on the southern-most terrace (Plate 14). The soil profiles identified in these STUs consists of a 10 to 17 cm thick level of dark brown 10YR 3/3 organic root matter overlying a 11 cm level of dark reddish brown 5YR 3/4 very fine silty sand. Stratum III consists of a very compact, organic brown 5YR 4/4 very fine silty clay with small rounded pebbles. No cultural material was recovered from any of the STUs excavated on the southern terrace.

Transects T3, T4 and T5 were placed on the north side of the southern-most drainage on a relatively level terrace covered by mature spruce. The soil profiles recorded for STUs excavated on these transects consist of a 7 to 20-cm thick level of very dark grayish brown 10YR 3/2 organic root matter overlying a 9 to 15-cm level of light gray 10YR 7/2 fine silty sand mottled with dark yellowish brown 10YR 4/6 fine silty sand (Stratum II). Stratum III was identified between 10 and 46 cm b.g.s. Stratum III consists of brown 5Y 4/4 compact coarse sands. A fractured rock of questionable cultural origin was recovered from T3.1 in Stratum II. Two radials were placed at a 5-m interval to the north and west of T3.1. No cultural material was recovered from these STUs.

Transects T8-T13 were placed on the north and south terraces above the northern-most drainage (Plate 15). A total of 20 STUs were excavated in these two areas. The soil profiles recorded for these terraces were similar to those recorded for STUs excavated on the terraces to the south. Stratum I consists of a 11 to 34-cm deposit of mottled very dark grayish brown 10YR 3/2 organic root matter and silt mixed with strong brown 7.5YR 5/6 clay and light gray 10YR 7/2 clay. Stratum II consists of a 11 to 31-cm thick deposit of dark yellowish brown 10YR 4/4 silty loam mottled with strong brown 7.5YR 5/6 silty loam. Stratum III was recorded between 31 and 38 cm b.g.s. and consists of olive 5Y 5/4 clay with rounded pebbles. No cultural material was recovered from any of the STUs excavated within this area.

6.4.1 SECTOR 3

Sector 3 is located in the southern-most parcel of the Moscow radar station (Figure 17). It lies at an elevation of 1,489 ft a.m.s.l. Based upon the review of aerial photograph, as-built maps, construction photographs, and by the visual inspection of the property, Sector 3 was determined to contain the least amount of disturbances associated with the construction of the Moscow facility. The archeological survey of Sector 3 was limited to two knoll features in the southern and northern portions of the sector.

A small wetland extends along the southern fence line of Sector 3 (Plate 15). The wetland is likely the result of grading and filling activities conducted in the northern end of the sector. A relatively level east-west oriented knoll lies immediately above (north) of the wetland in the southern portion of Sector 3. The knoll is covered by grass and small deciduous and coniferous trees (Plate 15). Transects T6 and T7 were placed along the southern edge of the knoll and contained 16 STUs. All STUs were spaced at a 25 m interval. This interval was chosen to examine the extent of disturbances within the landform. The survey interval would have been reduced had intact soil profiles been recorded in this area. All excavated STUs recorded disturbed

Plate 13. View northeast from the southwestern corner of Sector 3 showing the disturbances associated with the old power line.

Plate 14. View north along dirt road between Sectors 3 and 2 in the Moscow OTHB-E Radar Station. Knoll containing Transects T1-T3 to left.

Plate 15. View northeast of the knoll containing transects T8-T10 on the west side of dirt road between Sectors 3 and 2 in the Moscow OTHB-E Radar Station.

soil profiles. Soil profiles recorded within STUs of T6 include a 19 to 41-cm level of brown 10YR 5/3 silty loam to yellowish brown 10YR 5/6 silty sand with gravel (Stratum I). Stratum I overlies light olive brown 2.5Y 5/3 clay. Large cobbles and boulders were recorded at a depth of 24 cm b.g.s. No cultural material was recovered from any of these STUs. Transect T7.1 was placed 25 m north of T6.7 on a slightly elevated portion of the knoll. Transect T7 contained nine STUs spaced at a 25-m interval. The soil profile recorded in these STUs consists of a 12 to 51-cm thick deposit of brown 10YR 5/3 silty loam with gravel (Stratum I) overlying compact, reddish brown 5YR 5/4 clay with large cobbles and boulders (Stratum II). No cultural material was recovered from the STUs excavated along T7.

The northern side of Sector 3 contains a knoll that runs along the southern edge of the radar tower array (Plate 16). The knoll measures approximately 30 m east-west by 40 m north-south and is covered by mature hardwood and small softwood trees. The as-built maps for this sector indicated that a drainage was present below (east) the terrace prior to the construction of the station. Several large stumps were noted throughout the area possibly indicating that not all of this portion of the sector has been disturbed by the construction of Sector 3. Six transects (T14-T19) containing 18 STUs were placed within this section of Sector 3. No cultural material was identified in any of the STUs.

Transect 14 was placed approximately 10 m south of the edge of the Sector 3 ground wire and contained four STUs spaced at a 10-m interval (Plate 16). The soil profiles recorded in this portion of Sector 3 consist of an 8 to 12-cm level of organic material with very dark grayish brown 10YR 3/2 fine silty sand. This stratum was mottled with dark yellowish brown 10YR 3/4 sandy loam. Numerous large cobbles were noted below the organic material and light gray 10YR 7/2 clay was recorded in some STUs between 8 and 15 cm b.g.s. Stratum II consists of a 14-cm thick level of yellowish brown 10YR 5/8 sandy loam and Stratum III consists of a light olive brown 2.5Y 5/3 clay. Transect 15 was placed 10 m south of T14 and contained three STUs placed at 10-m intervals. STU T15.3 consists of a 10-cm level of root material overlying a 15-cm level of yellowish red 5YR 4/6 fine sandy loam. Stratum III consisted of a 6-cm thick level of brownish yellow 10YR 6/6 medium sandy loam with 30% gravels. Profiles of T15.1 and T15.2 included three uniform strata.

Transect T16 was placed 10 m south of T15 and contained three STUs (Plate 17). Stratum I consisted of a 12-cm level of organic root matter overlying a 18 to 20-cm thick level of strong brown 7.5YR 4/6 silty loam. Light olive brown 2.5Y 5/3 clay was recorded from 12 to 30 cm b.g.s. Transect 17 was placed 10 m south of T16 and contained two STUs. The soil profiles identified within this portion of the terrace consisted of 12 to 20 cm of organic material overlying 6 to 11 cm of 10YR 5/6 fine sandy loam. Subsoil was recorded between 29 and 40 cm b.g.s. No cultural material was recovered from any of the STUs excavated on T17. Transects T18 contained two STUs and T19 contained one STU. STUs were spaced at a 10-m interval. Three strata were recorded within these STUs. Stratum I consisted of 12 to 20 cm of organic material with very dark grayish brown 10YR 3/2 and silty sand overlying 6 to 12 cm of yellowish brown 10YR 5/6 silty loam (Stratum II). Stratum III consists of light olive brown 2.5Y 5/3 clay.

The archeological survey conducted on a small knoll located in the northern portion of Sector 3 did not recover either Native American or historic archeological materials. Although portions of this knoll appeared to be intact, some disturbances were identified within the STU profiles. Intact soil profiles were identified in portions of the knoll farthest away from the radar ground wire. However, no cultural remains were recovered.

Plate 16. View west of the northern side of Sector 3. The location of Transects T14-T17 is to left.

Plate 17. View southeast of JMA crew excavating STUs on Transect T15 in Sector 3.

6.5 CONCLUSION AND RECOMMENDATIONS FOR THE COLUMBIA FALLS AND MOSCOW OTHB-E RADAR STATIONS

The Phase I archeological survey of the Columbia Falls OTHB-E radar station resulted in the documentation of three newly identified Native American archeological sites and one newly recorded historic site. Site 77.7 ME in Sector 1 in the Columbia Falls radar station can be assigned to the Late Archaic period in Maine based on the presence of ground and pecked stone tools while sites 77.8 ME and 77.9 ME can be attributed only to the general prehistoric period. Phase II site investigation of sites 77.7 ME, 77.8 ME, and 77.9 ME will be necessary to collect sufficient information to permit evaluations of their significance.

Materials from historic site ME 860-001, including blue transfer print ceramics, cut and wire nails, are associated with late nineteenth century dates of manufacture. Site ME 860-001 likely represents the remains of a seasonal hunting camp. This site does not contain artifacts or subsurface features (i.e., privies or wells) which would contribute significant information towards our understanding of the late nineteenth century in this portion of Maine. Therefore, no additional archeological work is recommended at site ME 860-001.

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APPENDIX I:

SOIL SEDIMENT PROFILES

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
1	1		1	0-7	10YR3/3 dark brown silt with fine sand 10% cobbles, till		
			2	7-46	10YR6/6 brownish yellow silt with fine sand, 20% cobbles, till		
			3	45-55	10YR6/4 light yellowish brown fine silt sand		
1	2		1	0-11	10YR3/3 dark brown silt with fine sand 10% cobbles, till		
			2	11-36	10YR6/6 brownish yellow silt with fine sand, 20% cobbles, till		
			3	36-41	10YR6/4 light yellowish brown fine silt with sand		
1	3		1	0-8	10YR3/3 dark brown silt with fine sand 10% gravel , till		
			2	8-32	10YR6/6 brownish yellow silt with fine sand, 20% cobbles, till		
			3	32-41	10YR6/4 light yellowish brown fine silt with sand		
1	4		1	0-9	10YR3/3 dark brown silt with fine sand 5% gravel, till		
			2	9-24	10YR6/6 brownish yellow silt with fine sand 5% gravel		
			3	34-32	10YR6/4 light yellowish brown fine silt sand 15% gravel, till		
1	5		1	0-12	10YR2/2 black fine silt with sand, root mat		
			2	12-21	10YR7/2 light gray silt sand		
			3	21-32	7.5YR5/6 strong brown silt sand		
1	6		1	0-10	10YR2/2 black fine silt with sand		
			2	10-18	110YR6/6 brownish yellow silt with fine sand		
			3	18-28	10YR6/4 light yellowish brown fine silt sand 20% gravel, till		
1	7		1	0-8	10YR3/3 dark brown silt with fine sand		
			2	8-14	10YR7/2 light gray silt sand		
			3	14-21	10YR6/6 brownish yellow silt with fine sand		
			4	21-31	10YR5/6 yellowish brown fine silt with sand		
1	8		1	0-7	10YR3/3 dark brown silt with fine sand		
			2	7-12	10YR6/6 brownish yellow silt with fine sand		
			3	12-32	10YR6/4 light yellowish brown fine silt with sand		
1	9		1	0-6	10YR3/3 dark brown silt with fine sand		
			2	6-21	10YR6/6 brownish yellow silt with fine sand		
			3	21-30	10YR6/4 light yellowish brown fine silt with sand		
			2	10-18	110YR6/6 brownish yellow silt with fine sand		
			3	18-28	10YR6/4 light yellowish brown fine silt sand 20% gravel, till		
1	10		1	0-6	10YR3/3 dark brown silt with fine sand		
			2	6-11	10YR6/6 brownish yellow silt with fine sand		
			3	11-28	10YR6/4 light yellowish brown fine silt with sand		
1	11		1	0-4	10YR3/3 dark brown silt with fine sand		
			2	4-21	10YR6/6 brownish yellow silt with fine sand		
			3	21-36	10YR6/4 light yellowish brown fine silt with sand		
1	10		1	0-6	10YR3/3 dark brown silt with fine sand		
			2	6-11	10YR6/6 brownish yellow silt with fine sand		
			3	11-28	10YR6/4 light yellowish brown fine silt with sand		
1	12		1	0-8	10YR3/3 dark brown loam		
			2	8-16	10YR6/6 brownish yellow sand silt		

Columbia Falls, Maine OTHB-E Radar Station
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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
2	2		1	0-7	10YR3/3 dark brown loam		
			2	7-24	10YR6/6 brownish yellow sand silt		
			3	24-34	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	3		1	0-9	10YR3/3 dark brown loam		
			2	9-18	10YR6/6 brownish yellow sand silt		
			3	18-30	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	4		1		STU not excavated, bottom of kettle pond		
2	5		1		STU not excavated, bottom of kettle pond		
2	6		1		STU not excavated, bottom of kettle pond		
2	7		1	0-10	10YR3/3 dark brown loam		
			2	10-24	10YR6/6 brownish yellow sand silt		
			3	24-36	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	8		1	0-10	10YR3/3 dark brown loam, root mat		
			2	10-28	10YR6/6 brownish yellow sand silt		
			3	28-38	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	9		1	0-10	10YR3/3 dark brown loam, root mat		
			2	10-24	10YR6/6 brownish yellow sand silt		
			3	24-36	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	10		1	0-5	10YR3/3 dark brown loam, root mat		
			2	5-14	10YR6/6 brownish yellow sand silt		
			3	14-26	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	11		1	0-10	10YR3/3 dark brown loam, root mat		
			2	10-20	10YR6/6 brownish yellow sand silt		
			3	20-32	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
2	12		1	0-8	10YR3/3 dark brown loam, root mat		
			2	8-23	10YR6/6 brownish yellow sand silt		
			3	23-34	10YR6/4 light yellowish brown coarse sand silt 25% cobble, till		
3	1		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	2		1	0-3	10YR2/1 black loam and root mat		
			2	3-12	10YR5/2 grayish brown sandy clay		
			3	12-33	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	3		1	0-9	10YR3/3 dark brown loam		
			2	9-18	10YR6/6 brownish yellow sand silt		
			3	18-30	10YR6/4 light yellowish brown coarse sand silt 10% cobble, till		
3	4		1		STU not excavated, bottom of kettle pond		
3	5		1		STU not excavated, bottom of kettle pond		
3	6		1		STU not excavated ,bottom of kettle pond		

Columbia Falls, Maine OTHB-E Radar Station
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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
3	7		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	8		1	0-3	10YR2/1 black loam and root mat		
			2	3-12	10YR5/2 grayish brown sandy clay		
			3	12-33	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	9		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	10		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	11		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
3	12		1	0-3	10YR2/1 black loam and root mat		
			2	3-12	10YR5/2 grayish brown sandy clay		
			3	12-33	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
4	1		1	0-8	10YR3/3 dark brown silt with fine sand		
			2	8-12	10YR6/6 brownish yellow silt with fine sand		
			3	12-24	10YR6/4 light yellowish brown fine silt with sand		
4	2		1		STU not excavated , bottom of kettle pond		
	3		1		STU not excavated , bottom of kettle pond		
	4		1		STU not excavated , bottom of kettle pond		
	5		1		STU not excavated , bottom of kettle pond		
	6		1		STU not excavated , bottom of kettle pond		
4	7		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-20	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
4	8		1	0-3	10YR2/1 black loam and root mat		
			2	3-12	10YR5/2 grayish brown sandy clay		
			3	12-33	10YR6/6 yellowish brown silty loam > 25% cobbles, till		
4	9		1	0-10	10YR3/3 dark brown silt loam		
			2	10-22	10YR5/8 yellowish brown silt sand 20% gravel, till		
			3	22-31	10YR6/6 yellowish brown silt sand 20% cobbles, till		
4	10		1	0-7	10YR3/3 dark brown silt loam		
			2	7-14	10YR5/8 yellowish brown silt sand 20% gravel, till		
			3	14-48	10YR7/4 very pale yellow silty sand with 20% gravel, till		
4	11		1	0-10	10YR3/3 dark brown silt loam		
			2	10-36	10YR5/8 yellowish brown silt sand 20% gravel, till		
			3	36-42	2.5YR7/8 yellow fine silt sand		

Columbia Falls, Maine OTHB-E Radar Station
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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
4	12		1	0-6	10YR3/3 dark brown silt loam		
			2	6-19	10YR5/8 yellowish brown silt sand		
			3	19-31	10YR6/4 light yellowish brown fine silt with sand		
5	1		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	2		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	3		1		STU not excavated, bottom of kettle pond		
5	4		1		STU not excavated, bottom of kettle pond		
5	5		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	6		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	7		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	8		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	9		1	0-3	10YR2/1 black loam and root mat		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
5	10		1	0-3	10YR2/1 black loam and root ma		
			2	3-8	10YR5/2 grayish brown sandy loam		
			3	8-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 yellowish brown sandy loam		
6	1		1	0-10	10YR3/3 dark brown silt with fine sand		
			2	10-20	10YR6/6 brownish yellow silt with fine sand		
			3	20-30	10YR6/4 light yellowish brown fine silt with sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
6	2		1	0-10	10YR3/3 dark brown silt with fine sand		
			2	10-13	10YR6/6 brownish yellow silt with fine sand		
			3	13-23	10YR6/4 light yellowish brown fine silt with sand		
6	3		1	0-8	10YR3/3 dark brown silt with fine sand		
			2	8-20	10YR6/6 brownish yellow silt with fine sand		
			3	20-30	10YR6/4 light yellowish brown fine silt with sand		
6	4		1		not excavated, disturbed road bed		
6	5		1	0-19	10YR6/6 brownish yellow silt with fine sand		
			2	19-24	10YR5/2 grayish brown silt		
			3	24-34	10YR6/4 light yellowish brown fine silt with sand		
6	6		1	0-23	10YR6/6 with 10YR 3/3 dark brown fine sand		
6	7		1	0-4	10YR3/3 dark brown silt with fine sand		
			2	4-19	10YR6/6 brownish yellow silt with fine sand		
			3	19-29	10YR6/4 light yellowish brown fine silt with sand		
6	8		1	0-5	10YR3/3 dark brown silt with fine sand		
			2	5-25	10YR6/6 brownish yellow silt with fine sand		
			3	25-35	10YR6/4 light yellowish brown fine silt with sand		
7	1		1	0-12	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	12-21	10YR5/8 yellowish brown fine silty loam		
			3	21-33	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	2		1	0-7	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	7-22	10YR5/8 yellowish brown fine silty loam		
			3	22-38	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	3		1	0-4	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	4-17	10YR5/8 yellowish brown fine silty loam		
			3	17-36	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	4		1	0-6	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	6-18	10YR5/8 yellowish brown fine silty loam		
			3	18-62	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	5		1	0-11	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	11-17	10YR5/8 yellowish brown fine silty loam		
			3	17-24	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	6		1	0-8	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	8-16	10YR5/8 yellowish brown fine silty loam		
			3	16-35	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	7		1	0-6	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	6-14	10YR5/8 yellowish brown fine silty loam		
			3	14-38	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
7	8		1		not excavated in disturbed area		

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
8	1		1	0-11	10YR3/3 dark brown fine silty loam and root mat		
			2	11-21	10YR5/8 yellowish brown fine silty loam		
			3	21-31	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	2		1	0-5	10YR3/3 dark brown fine silty loam and root mat		
			2	5-10	10YR5/8 yellowish brown fine silty loam		
			3	10-20	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	3		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-21	10YR5/8 yellowish brown fine silty loam		
			3	21-58	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	4		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-20	10YR5/8 yellowish brown fine silty loam		
			3	20-31	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	5		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-19	10YR5/8 yellowish brown fine silty loam		
			3	19-30	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	6		1	0-6	10YR3/3 dark brown fine silty loam and root mat		
			2	6-18	10YR5/8 yellowish brown fine silty loam		
			3	18-31	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
8	7		1	0-10	disturbed soils, STU terminated		
8	8		1	0-15	disturbed soils, STU terminated		
8	9		1	0-15	disturbed soils, STU terminated		
8	10				disturbed soils STU not excavated		
9	1		1	0-3	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	3-11	10YR5/4 yellowish brown fine silty loam		
			3	11-24	10YR6/ light yellowish brown fine silty sand 25% gravel, till		
9	2		1	0-5	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	5-11	10YR5/4 yellowish brown fine silty loam		
			3	11-29	10YR6/6 light yellowish brown fine silty sand 20% gravel, till		
9	3		1	0-6	10YR3/3 dark brown fine silty sand , root mat		
			2	6-15	10 YR5/2 albic		
			3	15-25	10YR6/4 light yellowish brown fine loess		
			4	25-40	10YR6/6light yellowish brown fine loess		
			5	40-45	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
9	4		1	0-6	10YR3/3 dark brown fine silty sand , root mat		
			2	6-16	10YR3/4 strong brown fine silty loam		
			3	16-26	10YR6/4 light yellowish brown fine silty sand 40% gravel, till		
9	5		1	0-8	10YR3/3 dark brown fine silty sand		
			2	8-12	10YR5/8 yellowish brown fine silty loam		
			3	12-31	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
			4	31-36	10YR5/4 yellowish brown coarse sand 25% gravel, till		

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
9	6		1	0-3	10YR3/3 dark brown fine silty sand with 5% gravel, till		
			2	3-24	10YR5/8 yellowish brown fine sandy loam		
			3	24-37	10YR6/6 light yellowish brown sandy loam		
			4	37-45	10YR6/3 coarse sand		
9	6	East	1	0-10	10YR3/3 dark brown fine silty sand , root mat		
			2	10-35	10YR3/4 strong brown fine silty loam		
			3	35-50	10YR6/4 light yellowish brown fine silty sand 40% gravel, till		
9	7		1	0-7	10YR3/3 dark brown fine silty sand , root mat		
			2	7-14	10YR5/8 yellowish brown fine silty loam		
			3	14-16	10YR6/4 light yellowish brown fine silty sand 20% gravel, till		
			4	16-24	10YR5/4 yellowish brown coarse sand 25% gravel, till		
10	1		1	0-12	10YR3/3 fine silt sand 15% gravel		
			2	12-21	10YR6/8 light yellowish brown fine silt sand 15% gravel		
			3	21-38	10YR5/8 yellowish brown fine silt sand		
10	2		1	0-12	10YR3/3 dark brown fine silty sand, root mat		
			2	12-23	10YR5/8 yellowish brown fine silty loam		
			3	23-36	10YR6/4 light yellowish brown fine silty sand 10% gravel, till		
10	3		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-21	10YR5/8 yellowish brown fine silty loam		
			3	21-32	10YR7/4 light gray fine silty sand		
11	1		1	0-4	10YR3/3 dark brown fine silty loam disturbed soils		
			2	4-22	10YR5/8 yellowish brown fine silty loam		
			3	22-38	10YR6/4 light yellowish brown fine silty sand		
11	2		1	0-13	10YR3/3 dark brown fine silty loam disturbed soils		
			2	13-19	10YR5/8 yellowish brown fine silty loam		
			3	19-25	10YR6/4 light yellowish brown fine silty sand		
11	3		1	0-6	10YR3/3 dark brown fine silty loam and root mat		
			2	6-12	10YR5/8 yellowish brown fine silty loam		
			3	12-24	10YR6/4 light yellowish brown fine silty sand		
			4	24-33	10YR6/4 light yellowish brown fine silty sand 10% gravel		
11	4		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-14	10YR5/8 yellowish brown fine silty loam		
			3	14-31	10YR6/4 light yellowish brown fine silty sand		
			4	31-35	10YR6/4 light yellowish brown fine silty sand 10% gravel		
12	1		1	0-6	10YR3/3 dark brown fine silty loam and root mat		
			2	6-18	10YR6/6 brownish yellow silt with fine sand		
			3	18-28	10YR6/4 light yellowish brown fine silty sand 30% gravel		
12	2		1	0-7	10YR3/3 dark brown fine silty loam and root mat		
			2	7-17	10YR6/6 brownish yellow silt with fine sand		
			3	17-27	10YR6/4 light yellowish brown fine silty sand 30% gravel		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
12	3		1	0-9	10YR3/3 dark brown fine silty loam and root mat		
			2	9-19	10YR5/8 yellowish brown fine silty loam		
			3	19-29	10YR6/4 light yellowish brown fine silty sand		
			4	29-34	10YR6/4 light yellowish brown fine silty sand 10% gravel		
13	1		1	0-2	10YR2/1 black loam and root mat		
			2	2-10	10YR4/4 dark yellowish brown silty loam		
			3	10-15	10YR5/2 grayish brown sandy clay		
			4	15-32	10YR5/8 yellowish brown sandy loam with 25% gravel, till		
			5	32-55	10YR6/6 brownish yellow sandy loam with 25% gravel, till		
13	2		1	0-2	10YR2/1 black loam and root mat		
			2	2-12	10YR4/4 dark yellowish brown silty loam		
			3	12-15	10YR5/2 grayish brown sandy clay		
			4	15-38	10YR5/8 yellowish brown sandy loam with 25% gravel, till		
			5	38-60	10YR6/6 brownish yellow sandy loam with 25% gravel, till		
14	1		1	0-6	10YR2/1 black loam and root mat		
			2	6-28	10YR5/8 yellowish brown silt loam with 20% gravel, till		
			3	28-37	10YR5/8 yellowish brown fine sand with 20% gravel, till		
			4	37-40	10YR6/8 brownish yellow coarse sand and gravel		
14	2		1	0-8	10YR2/1 black loam and root mat		
			2	8-19	10YR5/8 yellowish brown silt loam with 20% gravel, till		
			3	19-39	10YR5/8 yellowish brown fine sand with 20% gravel, till		
			4	39-45	10YR6/8 brownish yellow coarse sand and gravel		
15	1		1	0-2	10YR2/1 black loam and root mat		
			2	2-4	10YR5/2 gray sandy loam		
			3	4-12	10YR5/8 yellowish brown sandy loam		
			4	12-24	10YR6/6 brownish yellow sandy loam 25% gravel, till		
15	2		1	0-2	10YR2/1 black loam and root mat		
			2	2-4	10YR5/2 gray sandy loam		
			3	4-15	10YR5/8 yellowish brown sandy loam		
			4	15-25	10YR6/6 brownish yellow sandy loam 25% gravel, till		
16	1		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-26	10YR6/6 brownish yellow sandy silt		
			3	26-40	10YR6/4 light yellowish brown silt sand with 30% gravel, till		
16	2		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-13	10YR5/2 gray silt		
			3	13-33	10YR6/6 brownish yellow sandy silt 20% gravel, till		
			4	33-45	10YR6/4 light yellowish brown silt sand with 30% gravel, till		
16	3		1	0-10	10YR6/6 brownish yellow silt loam with root mat		
			2	10-12	10YR5/2 gray silt		
			3	12-35	10YR6/6 brownish yellow sandy silt 20% gravel, till		
			4	35-45	10YR6/4 light yellowish brown silt sand with 30% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
16	4		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-12	10YR5/2 gray silt		
			3	12-32	10YR6/6 brownish yellow sandy silt 20% gravel, till		
			4	32-42	10YR6/4 light yellowish brown silt sand with 30% gravel, till		
16	5		1	0-9	10YR3/3 dark brown silt loam with root mat		
			2	9-12	10YR5/2 gray silt		
			3	12-22	10YR6/6 brownish yellow sandy silt 20% gravel, till		
			4	22-40	10YR6/4 light yellowish brown silt sand with 30% gravel, till		
16	6		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-18	10YR5/2 gray silt		
			3	18-48	10YR6/6 brownish yellow sandy silt 20% gravel, till		
			4	48-58	10YR6/4 light yellowish brown silt sand with 30% gravel, till		
16	7		1	0-1	10YR3/3 dark brown silt loam with root mat		
			2	1-7	10YR5/2 gray silt		
			3	7-17	10YR5/8 yellowish brown sandy loam		
			4	17-34	10YR6/6 brownish yellow sandy silt 20% gravel, till		
16	8		1	0-9	10YR3/3 dark brown silt loam with root mat		
			2	9-12	10YR5/2 gray silt		
			3	12-18	10YR5/8 yellowish brown sandy loam		
			4	18-30	10YR6/6 brownish yellow sandy silt 20% gravel, till		
17	1		1	0-2	10YR2/1 black loam and root mat		
			2	2-5	10YR5/2 gray sandy loam		
			3	5-11	10YR5/8 yellowish brown sandy loam		
			4	11-26	10YR6/6 brownish yellow sandy loam 25% gravel, till		
17	2		1	0-3	10YR2/1 black loam and root mat		
			2	3-6	10YR5/2 gray sandy loam		
			3	6-11	10YR5/8 yellowish brown sandy loam		
			4	11-28	10YR6/6 brownish yellow sandy loam 25% gravel, till		
17	3		1	0-2	10YR2/1 black loam and root mat		
			2	2-6	10YR5/2 gray sandy loam		
			3	6-12	10YR5/8 yellowish brown sandy loam		
			4	12-28	10YR6/6 brownish yellow sandy loam 25% gravel, till		
17	4		1	0-2	10YR2/1 black loam and root mat		
			2	2-5	10YR5/2 gray sandy loam		
			3	5-13	10YR5/8 yellowish brown sandy loam		
			4	13-28	10YR6/6 brownish yellow sandy loam 25% gravel, till		
17	5		1	0-1	10YR2/1 black loam and root mat		
			2	1-5	10YR5/2 gray sandy loam		
			3	5-14	10YR5/8 yellowish brown sandy loam		
			4	14-32	10YR6/6 brownish yellow sandy loam 25% gravel, till		

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Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
18	1		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-14	10YR5/8 yellowish brown sandy loam		
			3	14-28	10YR6/4 light yellowish brown silt sand		
			4	28-36	10YR6/6 brownish yellow sandy loam 25% gravel, till		
18	2		1	0-9	10YR3/3 dark brown silt loam with root mat		
			2	9-13	10YR5/8 yellowish brown sandy loam		
			3	13-21	10YR6/4 light yellowish brown silt sand		
			4	21-29	10YR6/6 brownish yellow sandy loam 25% gravel, till		
18	3		1	0-4	10YR3/3 dark brown silt loam with root mat		
			2	4-14	10YR5/8 yellowish brown sandy loam		
			3	14-33	10YR6/4 light yellowish brown silt sand		
			4	33-35	10YR6/6 brownish yellow sandy loam 25% gravel, till		
19	1		1	0-2	10YR2/1 black loam and root mat		
			2	2-9	10YR5/2 gray sandy loam		
			3	9-14	10YR5/8 yellowish brown sandy loam		
			4	14-28	10YR6/6 brownish yellow sandy loam 25% gravel, till		
20	1		1	0-1	10YR2/1 black loam and root mat		
			2	1-6	10YR5/2 gray sandy loam		
			3	6-15	10YR5/8 yellowish brown sandy loam		
			4	15-33	10YR6/6 brownish yellow sandy loam 25% gravel, till		
20	2		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-15	10YR5/8 yellowish brown sandy loam		
			3	15-31	10YR6/4 light yellowish brown silt sand		
			4	31-38	10YR6/6 brownish yellow sandy loam 25% gravel, till		
21	1		1	0-40	10YR3/3 dark brown silty loam, mottled with 10YR5/8 sand		
22	1		1	0-10	10YR3/3 dark brown silt loam with root mat	1 worked pebble	possible
			2	10-50	10YR6/4 light yellowish brown silt sand		
			3	50-60	10YR6/6 brownish yellow sandy loam 25% gravel, till		
22	1	North	1	0-7	10YR3/3 dark brown silt loam		
			2	7-20	10YR6/6 brownish yellow fine silt sand, 10YR 5/2 mottling		
22	1	East	1	0-5	10YR3/3 dark brown silt loam		
			2	5-15	10YR6/6 brownish yellow fine silt sand, 10%gravel, till		
22	1	South	1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-12	10YR6/4 light yellowish brown silt sand		
			3	12-16	10YR6/6 brownish yellow sandy loam 25% gravel, till		
22	1	West	1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-19	10YR6/6 brownish yellow sandy loam 25% gravel, till		
				S001.001	Surface	1 pebble, bifacially worked	Possible
				S002.002	Surface	5 FCR	

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
22	2		1	0-7	10YR3/3 dark brown silt loam with root mat		
			2	7-16	10YR5/8 yellowish brown sandy loam		
			3	16-31	10YR6/4 light yellowish brown silt sand		
			4	31-35	10YR6/6 brownish yellow sandy loam		
23	1		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-7	10YR5/8 yellowish brown sandy loam		
			3	7-16	10YR7/1 light gray sandy loam		
			4	16-38	10YR6/6 brownish yellow sandy loam		
23	2		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-6	10YR5/8 yellowish brown sandy loam		
			3	6-14	10YR7/1 light gray sandy loam		
			4	14-36	10YR6/6 brownish yellow sandy loam		
23	3		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-8	10YR5/8 yellowish brown sandy loam		
			3	8-17	10YR7/1 light gray sandy loam		
			4	17-41	10YR6/6 brownish yellow sandy loam		
24	1		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-12	10YR5/8 yellowish brown sandy loam		
			3	12-28	10YR6/4 light yellowish brown silt sand		
			4	28-38	10YR6/6 brownish yellow sandy loam		
24	2		1	0-7	10YR3/3 dark brown silt loam with root mat		
			2	7-14	10YR5/8 yellowish brown sandy loam		
			3	14-28	10YR6/4 light yellowish brown silt sand		
			4	28-32	10YR6/6 brownish yellow sandy loam		
25	1		1	0-7	10YR3/3 dark brown silt loam with root mat		
			2	7-13	10YR5/8 yellowish brown sandy loam		
			3	13-28	10YR6/4 light yellowish brown silt sand		
			4	28-40	10YR6/6 brownish yellow sandy loam		
26	1		1	0-11	10YR3/3 dark brown silt loam with root mat		
			2	11-28	10YR6/4 light yellowish brown silt sand		
			3	28-38	10YR6/6 brownish yellow sandy loam		
26	2		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-27	10YR6/4 light yellowish brown silt sand		
			3	27-38	10YR6/6 brownish yellow sandy loam		
27	1		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-9	10YR5/8 yellowish brown sandy loam		
			3	9-14	10YR7/1 light gray sandy loam		
			4	14-35	10YR6/6 brownish yellow sandy loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
27	2		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-10	10YR5/8 yellowish brown sandy loam		
			3	10-15	10YR7/1 light gray sandy loam		
			4	15-40	10YR6/6 brownish yellow sandy loam		
27	3		1	0-2	10YR3/2 black silty loam and root mat		
			2	2-7	10YR5/8 yellowish brown sandy loam		
			3	7-16	10YR7/1 light gray sandy loam		
			4	16-40	10YR6/6 brownish yellow sandy loam		
28	1		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-30	10YR6/4 light yellowish brown silt sand, 10% gravel, till		
			4	30-40	10YR6/6 brownish yellow sandy loam , 30% gravel, till		
28	2		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-14	10YR6/6 brownish yellow sandy loam , 30% gravel, till		
			3	14-20	10YR5/2 grayish brown silt		
			4	20-37	10YR6/6 brownish yellow sandy loam , 10% gravel, till		
			5	37-42	10YR6/4 light yellowish brown silt sand with 30% gravel		
28	3		1	0-7	10YR3/3 dark brown silt loam with root mat		
			2	7-25	10YR6/4 light yellowish brown silt sand, 10% gravel, till		
			3	25-40	10YR6/6 brownish yellow sandy loam , 30% gravel, till		
29	1		1	0-3	10YR3/2 very dark grayish brown silty loam with root mat		
			2	3-9	10YR5/8 yellowish brown sandy loam		
			3	9-14	10YR5/2 grayish brown sandy clay		
			4	14-40	10YR6/6 brownish yellow sandy loam		
29	2		1	0-3	10YR3/2 very dark grayish brown silty loam with root mat		
			2	3-16	10YR5/8 yellowish brown sandy loam		
			3	16-30	10YR6/6 brownish yellow sandy loam		
30	1		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-11	10YR5/8 yellowish brown sandy loam		
			3	11-28	10YR6/4 light yellowish brown silt sand		
			4	28-39	10YR6/6 brownish yellow sandy loam		
30	2		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-10	10YR5/8 yellowish brown sandy loam		
			3	10-26	10YR6/4 light yellowish brown silt sand		
			4	26-35	10YR6/6 brownish yellow sandy loam		
30	3		1	0-8	10YR3/3 dark brown silt loam with root mat		
			2	8-17	10YR5/8 yellowish brown sandy loam		
			3	17-31	10YR6/4 light yellowish brown silt sand		
			4	31-34	10YR6/6 brownish yellow sandy loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
30	4		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-13	10YR5/8 yellowish brown sandy loam		
			3	13-36	10YR6/4 light yellowish brown silt sand		
			4	36-41	10YR6/6 brownish yellow sandy loam		
30	5		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-4	10YR5/2 grayish brown sandy clay		
			3	4-11	10YR4/4 dark yellowish brown sandy loam		
			4	11-29	10YR5/8 yellowish brown sandy loam		
			5	29-34	10YR6/6 brownish yellow sandy loam		
30	6		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-4	10YR5/8 yellowish brown sandy loam		
			3	4-27	10YR6/6 brownish yellow sandy loam		
			4	27-38	10YR6/4 light yellowish brown silt sand		
31	1		1	0-3	10YR3/2 very dark grayish brown silty loam with root mat		
			2	3-16	10YR5/8 yellowish brown sandy loam		
			3	16-30	10YR6/6 brownish yellow sandy loam		
31	2		1	0-2	10YR3/2 very dark grayish brown silty loam with root mat		
			2	2-19	10YR5/8 yellowish brown sandy loam		
			3	19-40	10YR6/6 brownish yellow sandy loam		
31	3		1	0-2	10YR3/2 very dark grayish brown silty loam with root mat		
			2	2-12	10YR5/8 yellowish brown sandy loam		
			3	12-32	10YR6/6 brownish yellow sandy loam		
31	4		1	0-2	10YR3/2 very dark grayish brown silty loam with root mat		
			2	2-14	10YR5/8 yellowish brown sandy loam		
			3	14-36	10YR6/6 brownish yellow sandy loam		
31	5		1	0-6	10YR3/2 very dark grayish brown silty loam with root mat		
			2	6-16	10YR6/6 brownish yellow sandy loam		
31	6		1	0-4	10YR3/2 very dark grayish brown silty loam with root mat		
			2	4-14	10YR6/6 brownish yellow sandy loam		
31	7		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-4	10YR5/2 grayish brown sandy clay		
			3	4-20	10YR4/4 dark yellowish brown sandy loam		
			4	20-29	10YR5/8 yellowish brown sandy loam		
			5	29-33	10YR7/1 light gray sandy loam		
			6	33-40	10YR6/4 light yellowish brown		
32	1		1	0-11	10YR3/3 dark brown silt loam with root mat		
			2	11-38	10YR6/4 light yellowish brown silt sand		
			3	38-48	10YR6/6 brownish yellow sandy loam		
32	2		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-14	10YR6/4 light yellowish brown silt sand		
			3	14-24	10YR6/6 brownish yellow sandy loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
32	3		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-24	10YR6/4 light yellowish brown silt sand		
			3	24-36	10YR6/6 brownish yellow sandy loam		
32	4		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-29	10YR6/4 light yellowish brown silt sand		
			3	39-39	10YR6/6 brownish yellow sandy loam		
33	1		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-5	10YR5/2 grayish brown sandy clay		
			3	5-17	10YR5/8 yellowish brown sandy loam		
			4	17-31	10YR6/6 brownish yellow sandy loam		
34	1		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-7	10YR5/2 grayish brown sandy clay		
			3	7-19	10YR5/8 yellowish brown sandy loam		
			4	19-32	10YR6/6 brownish yellow sandy loam		
34	2		1	0-6	10YR3/3 dark brown silt loam with root mat		
			2	6-13	10YR6/4 light yellowish brown silt sand		
			3	13-26	10YR6/6 brownish yellow sandy loam		
34	3		1	0-8	10YR3/3 dark brown silt loam with root mat		
			2	8-25	10YR6/4 light yellowish brown silt sand		
			3	25-31	10YR6/6 brownish yellow sandy loam		
35	1		1	0-6	10YR 3/3 sandy silt and root mat		No edge of mid-kettle
			2	6-21	10YR 3/3 and 10YR 5/8 sandy silt with 15% gravels		
			3	21-38	10YR 5/8 yellowish brown sands and gravels		
			4	38-45	10YR 6/8brownish yellow rocks and gravel		
35	2		1	0-11	10YR 3/3 dark brown sandy silt and root mat		
			2	11-20	10YR 3/3 and 10YR 5/8 sandy silt with 15% gravels		
			3	20-33	10YR 5/8 yellowish brown sands and gravels		
			4	33-35	10YR 6/8 brownish yellow rocks and gravel		
35	3		1	0-12	10YR 3/3 dark brown sandy silt and root mat		
			2	12-14	10YR 3/3 dark brown and 10YR 5/8 sandy silt with 15% gravels		
			3	14-32	10YR 5/8 yellowish brown sands and gravels		
			4	32-40	10YR 6/8 brownish yellow rocks and gravel		
35	4		1	0-9	10YR 3/3 dark brown sandy silt and root mat		
			2	9-21	10YR 5/8 yellowish brown sands and gravels		
			3	21-30	10YR 6/6 brownish yellow rocks and gravel		
35	5		1	0-8	10YR 3/3 dark brown sandy silt and root mat		
			2	8-16	10YR 5/8 yellowish brown sands and gravel		
			3	16-28	10YR 6/6 brownish yellow rocks and gravel		
36	1		1	0-11	10YR 3/3 dark brown sandy silt and root mat		
			2	11-16	10YR 6/6 brownish yellow sandy silt with 15% gravel		
			3	16-26	10YR 6/4 light yellowish brown silty sand with 30% gravels, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
36	2		1	0-12	10YR 3/3 dark brown sandy silt and root mat		
			2	12-30	10YR 6/6 brownish yellow sandy silt with 15% gravel		
36	3		1	0-13	10YR 3/3 dark brown sandy silt and root mat	1 cut nail, 2 pieces of cast iron, 1fcr	ME 860-001
			2	13-25	10YR 6/6 brownish yellow sandy silt with 15% gravel		
			3	25-27	10YR 6/4 light yellowish brown silty sand with 30% gravel, till		
36	3	North	1	0-5	10YR 3/3 dark brown sandy silt root mat	3 cut nails	ME 860-001
			2	5-14	10YR 6/6 brownish yellow sandy silt with 25% gravel	fcr	
			3	14-16	10YR 3/3 dark brown sandy clay		
			4	16-18	10YR 5/2 grayish brown silt		
36	3	East	1	0-7	10YR 3/3 dark brown sandy clay	Stoneware, gray salt-glazed exterior, black glaze interior	ME 860-001
			2	7-17	10YR 5/2grayish brown silt		
			3	17-27	10YR 6/6 brownish yellow sandy silt with 15% gravel		
36	3	South	1	0-7	10YR 5/2 grayish brown silt		
			2	7-17	10YR 6/6 brownish yellow sandy silt with 20% gravel		
36	3	West	1	0-7	10YR 3/3 dark brown sandy silt root mat		
			2	7-17	10YR 6/6 sandy silt with 15% gravel		
36	4		1	0-11	10YR 3/3 dark brown sandy silt and root mat		
			2	11-25	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
			3	25-28	10YR 6/4 light yellowish brown silty sand with 30% gravel, till		
36	5		1	0-12	10YR 3/3 dark brown sandy silt and root mat		
			2	12-37	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
			3	37-39	10YR 6/4 light yellowish brown silty sand with 30% gravel , till		
36	6		1	0-6	10YR 3/3 dark brown sandy silt and root mat		
			2	6-37	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
36	7		1	0-6	10YR 3/3 dark brown sandy silt and root mat		
			2	6-37	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
36	8		1	0-9	10YR 3/3 dark brown sandy silt and root mat		
			2	9-19	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
36	9		1	0-4	10YR 3/3 dark brown sandy silt and root mat		
			2	4-17	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
36	10		1	0-10	10YR 3/3 dark brown sandy silt and root mat		
			2	10-22	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
36	11		1	0-9	10YR 3/3 dark brown sandy silt and root mat		
37	1		1	0-2	10YR 6/6 brownish yellow sandy silt with 30% gravel, till		
			2	2-17	10YR3/2 very dark grayish brown silty loam with root mat		
			3	17-25	10YR5/8 yellowish brown sandy loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
37	2		1	0-2	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
			2	2-16	10YR3/2 very dark grayish brown silty loam with root mat		
			3	16-28	10YR5/8 yellowish brown sandy loam		
37	3		1	0-2	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
			2	2-19	10YR3/2 very dark grayish brown silty loam with root mat		
			3	19-31	10YR5/8 yellowish brown sandy loam		
				S003.1	Surface collection	1 piece burned plastic	ME 860-001
				S003.2	Surface collection	1 32-40 Caliber rifle shell, 5 wire nails, 5 cut nails 5 plain, soft paste porcelain	ME 860-001
				S003.3	Surface collection	3 cast iron fragments, 1 32-40 caliber rifle shell, 1 window glass	ME 860-001
				S003.4	Surface collection	3 cast iron fragments, 1 bottle glass "-LERY; _HIO", 1 molded	ME 860-001
				S003.5	Surface collection	6 cast iron fragments, 1 window glass	ME 860-001
				S003.6	Surface collection	10 window glass, 5 cast iron fragments, 1 wire nail	ME 860-001
				S003.7	Surface collection	1 32-40 Caliber rifle shell , 1 manganese bottle glass fragment, 1 clear bottle glass fragment, 4 plain, soft paste porcelain	ME 860-001
				S003.8	Surface collection	5 cast iron	ME 860-001
				S003.9	Surface collection	3 cast iron, 12 whiteware, molded	ME 860-001
				S003.10	Surface collection	3 window glass, 2 plain whiteware, 1 blue transfer print whiteware	ME 860-001
				S003.11	Surface collection	1 buff bodied earthenware, red glaze, 1 plain buff bodied earthenware, 14 whiteware, 2 window glass	ME 860-001
				S003.12	Surface collection	1 whiteware	ME 860-001
				S003.13	Surface collection	6 whiteware	ME 860-001
				S003.15	Surface collection	1 FCR	ME 860-001
				S003.14	Surface collection	weathered gray chert chunk	ME 860-001
				S003.15	Surface collection	2 gray stoneware (salt-glaze & Albany slip)1	ME 860-001
38	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-9	10YR5/8 yellowish brown sandy loam		
			3	9-12	10YR7/1 light gray sandy loam		
			4	13-29	10YR5/8 yellowish brown sandy loam		
			5	29-35	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
38	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-9	10YR5/8 yellowish brown sandy loam		
			3	9-12	10YR7/1 light gray sandy loam		
			4	13-29	10YR5/8 yellowish brown sandy loam		
			5	29-35	10YR6/6 brownish yellow sandy silt with 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
39	1		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/8 yellowish brown sandy loam		
			3	4-8	10YR7/1 light gray sandy loam		
			4	8-26	10YR5/8 yellowish brown sandy loam		
			5	26-40	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
39	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/8 yellowish brown sandy loam		
			3	4-9	10YR7/1 light gray sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
39	2		5	28-32	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
39	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/8 yellowish brown sandy loam		
			3	4-10	10YR7/1 light gray sandy loam		
			4	10-24	10YR5/8 yellowish brown sandy loam		
			5	24-32	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
39	4		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/8 yellowish brown sandy loam		
			3	4-9	10YR7/1 light gray sandy loam		
			4	9-20	10YR5/8 yellowish brown sandy loam		
			5	20-26	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
40	1		1	0-7	10YR3/3 dark brown sandy silt		
			2	7-18	10YR3/3 dark brown and 10YR5/8 yellowish brown sandy silt		
			3	18-27	10YR6/8 brownish yellow sandy silt 30% gravel, till		
40	2		1	0-5	10YR3/3 dark brown sandy silt		
			2	5-19	10YR3/3 dark brown and 10YR5/8 yellowish brown sandy silt		
			3	19-22	10YR6/8 brownish yellow sandy silt 30% gravel, till		
			4	22-30	10YR6/4 light yellowish brown sandy clay and gravel		
40	3		1	0-9	10YR3/2 very dark grayish brown silty loam with root mat		
			2	9-12	10YR5/8 yellowish brown sandy loam		
			3	12-32	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
40	4		1	0-11	10YR3/2 very dark grayish brown silty loam with root mat		
			2	11-21	10YR5/8 yellowish brown sandy loam		
			3	21-32	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
40	5		1	0-7	10YR3/2 very dark grayish brown silty loam with root mat		
			2	7-18	10YR5/8 yellowish brown sandy loam		
			3	18-29	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
40	6		1	0-4	10YR3/2 very dark grayish brown silty loam with root mat		
			2	4-10	10YR5/8 yellowish brown sandy loam		
			3	10-18	10YR6/6 brownish yellow sandy silt with 20% gravel, till		
			4	18-25	10YR6/6 brownish yellow sandy loam with 30% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
41	1		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-10	10YR5/2 grayish brown sandy clay		
			3	10-24	10YR5/8 yellowish brown sandy loam		
			4	24-27	10YR6/6 brownish yellow sandy loam		
41	2		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-9	10YR5/2 grayish brown sandy clay		
			3	9-26	10YR5/8 yellowish brown sandy loam		
			4	26-30	10YR6/6 brownish yellow sandy loam		
41	3		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-8	10YR5/2 grayish brown sandy clay		
			3	8-24	10YR5/8 yellowish brown sandy loam		
41	3		4	24-28	10YR6/6 brownish yellow sandy loam		
41	4		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-11	10YR5/2 grayish brown sandy clay		
			3	11-27	10YR5/8 yellowish brown sandy loam		
			4	27-30	10YR6/6 brownish yellow sandy loam		
41	5		1	0-1	10YR3/2 very dark grayish brown loam		
			2	1-9	10YR5/2 grayish brown sandy clay		
			3	9-26	10YR5/8 yellowish brown sandy loam		
			4	26-31	10YR6/6 brownish yellow sandy loam		
42	1		1	0-6	10YR3/2 very dark grayish brown silty loam		
			2	6-19	10YR5/8 yellowish brown sandy silt		
			3	19-25	10YR6/6 brownish yellow sandy loam		
42	2		1	0-7	10YR3/2 very dark grayish brown silty loam		
			2	7-14	10YR5/8 yellowish brown sandy silt		
			3	14-28	10YR6/6 brownish yellow sandy loam		
42	3		1	0-6	10YR3/2 very dark grayish brown silty loam		
			2	6-17	10YR5/8 yellowish brown sandy silt		
			3	17-29	10YR6/6 brownish yellow sandy loam		
42	4		1	0-13	10YR3/2 very dark grayish brown silty loam		
			2	13-19	10YR5/8 yellowish brown sandy silt		
			3	19-33	10YR6/6 brownish yellow sandy loam		
42	5		1	0-11	10YR3/2 very dark grayish brown silty loam		
			2	11-18	10YR5/8 yellowish brown sandy silt		
			3	18-32	10YR6/6 brownish yellow sandy loam		
43	1		1	0-1	10YR3/2 very dark grayish brown loam		
			2	1-5	10YR5/2 grayish brown sandy clay		
			3	5-19	10YR4/4 dark yellowish brown sandy loam		
			4	19-27	10YR5/8 yellowish brown sandy loam		
			5	27-32	10YR6/6 brownish yellow sandy loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
43	2		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-6	10YR5/2 grayish brown sandy clay		
			3	6-12	10YR4/4 dark yellowish brown sandy loam		
			4	12-26	10YR5/8 yellowish brown sandy loam		
			5	26-30	10YR6/6 brownish yellow sandy loam		
43	3		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-7	10YR5/2 grayish brown sandy clay		
			3	7-12	10YR4/4 dark yellowish brown sandy loam		
			4	12-28	10YR5/8 yellowish brown sandy loam		
			5	29-32	10YR6/6 brownish yellow sandy loam		
43	4		1	0-2	10YR3/2 very dark grayish brown loam		
			2	2-5	10YR5/2 grayish brown sandy clay		
			3	5-12	10YR4/4 dark yellowish brown sandy loam		
43	4		4	12-28	10YR5/8 yellowish brown sandy loam		
			5	29-32	10YR6/6 brownish yellow sandy loam		
44	1		1	0-8	10YR3/ dark brown silt loam with root mat		
			2	8-16	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
44	2		1	0-5	10YR3/2 very dark grayish brown silt loam with root mat		
			2	5-11	10YR5/2 grayish brown sandy clay		
			3	11-21	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
44	3		1	0-7	10YR3/2 very dark grayish brown silt loam with root mat		
			2	7-17	10YR5/2 grayish brown sandy clay		
			3	17-30	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
44	4		1	0-5	10YR 3/2 very dark grayish brown silty sand and root mat		
			2	5-16	10YR5/6 yellowish brown sandy loam with 30% gravel, till		
44	5		1	0-7	10YR3/2 very dark grayish brown silty sand and root mat		
			2	7-18	10YR5/6 yellowish brown sandy loam with 30% gravel, till		
44	4		1	0-5	10YR3/2 very dark grayish brown silty sand and root mat		
			2	5-16	10YR5/6 yellowish brown sandy loam with 30% gravel, till		
45	1		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/2 grayish brown sandy clay		
			3	4-10	10YR4/4 dark yellowish brown sandy loam		
			4	10-28	10YR5/8 yellowish brown sandy loam		
			5	28-32	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
45	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/2 grayish brown sandy clay		
			3	4-11	10YR4/4 dark yellowish brown sandy loam		
			4	11-29	10YR5/8 yellowish brown sandy loam		
			5	30-32	10YR6/6 brownish yellow sandy loam with 30% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
45	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		
			2	2-4	10YR5/2 grayish brown sandy clay		
			3	4-11	10YR4/4 dark yellowish brown sandy loam		
			4	11-29	10YR5/8 yellowish brown sandy loam		
			5	29-31	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
45	4		1	0-3	10YR3/2 very dark grayish brown silty sand and root mat		
			2	3-7	10YR5/2 grayish brown sandy clay		
			3	7-14	10YR4/4 dark yellowish brown sandy loam		
			4	14-27	10YR5/8 yellowish brown sandy loam		
			5	27-33	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
45	5		1	0-3	10YR3/2 very dark grayish brown silty sand and root mat		
			2	3-7	10YR5/2 grayish brown sandy clay		
			3	7-14	10YR4/4 dark yellowish brown sandy loam		
			4	14-27	10YR5/8 yellowish brown sandy loam		
			5	27-33	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	1		1	0-14	10YR3/2 very dark grayish silty sand and root mat		
			2	14-19	10YR5/8 yellowish brown sandy loam		
			3	19-27	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	2		1	0-6	10YR3/2 very dark grayish silty sand and root mat		
			2	6-10	10YR5/8 yellowish brown sandy loam		
			3	10-24	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	3		1	0-13	10YR3/2 very dark grayish silty sand and root mat		
			2	13-18	10YR5/8 yellowish brown sandy loam		
			3	18-28	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	4		1	0-11	10YR3/2 very dark grayish silty sand and root mat		
			2	11-17	10YR5/8 yellowish brown sandy loam		
			3	17-31	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	5		1	0-4	10YR3/2 very dark grayish silty sand and root mat		
			2	4-9	10YR5/8 yellowish brown sandy loam		
			3	9-21	10YR6/6 brownish yellow sandy loam with 30% gravel, till		
46	6		1	0-9	10YR3/3 dark brown fine silty sand with 4 cm of root mat		
			2	9-14	10YR5/1gray fine silt		
			3	14-19	10YR3/8 dark yellowish brown fine silt		
			4	19-30	10YR5/8 yellowish brown fine silt-loess	1 ground stone,1 pecked stone 4 fcr	77.7 ME
			5	30-46	10YR5/8 yellowish brown fine silt		
46	6	North	1	0-7	10YR3/3 dark brown fine silty sand with 4 cm of root mat		
			2	7-16	10YR3/8 dark yellowish brown silty sand		
			3	16-27	10YR6/4 flight yellowish brown fine silty sand		
			4	27-50	10YR6/4 light yellowish brown sandy loam with 30% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
46	6	East	1	0-6	10YR3/3 dark brown fine silty sand with 4 cm of root mat		
			2	6-14	10YR3/8 dark yellowish brown silty sand		
			3	14-47	10YR3/8 dark yellowish brown fine silt		
			4	47-52	10YR6/4 light yellowish brown fine silt-loess		
46	6	South	1	0-13	10YR3/3 dark brown fine silty sand with 4 cm of root mat		
			2	13-29	10YR3/8 dark yellowish brown silty sand		
			3	29-40	10YR6/4 light yellowish brown sandy loam with 30% gravel, till		
46	6	West	1	0-14	10YR3/3 dark brown fine silty sand with 4 cm of root mat		
			2	14-28	10YR3/8 dark yellowish brown silty sand		
			3	28-40	10YR6/4 light yellowish brown sandy loam with 30% gravel, till		
46	6	2.5m East 1/8 mesh	1	0-8	10YR3/3 dark brown fine silty sand and root mat	1 quartz flake	77.7 ME
			2	8-21	10YR5/6 yellowish brown sand		
			3	21-45	10YR4/6 dark yellowish brown sands and gravels		
			4	45-57	10YR5/8 yellowish brown gravels and sand		
46	6	2.5m East 1/4 mesh	1	0-8	10YR3/3 dark brown fine silty sand and root mat	1 ground cobble	77.7 ME
46	6	2.5m North 1/8 mesh	1	0-12	10YR3/3 dark brown fine silty sand and root mat	1 basalt, 1 rhyolite and 2 quartz flakes	77.7 ME
			2	12-24	10YR5/6 yellowish brown sand		
			3	24-30	10YR7/1 light gray sands and gravels		
			4	30-46	10YR4/6 dark yellowish brown sands and gravels		
			5	46-60	10YR5/8 yellowish brown gravels and sand		
46	6	2.5m South 1/8 mesh	1	0-6	10YR2/1 black fine silty sand with root mat	4 quartz flakes; 1 basalt flake	77.7 ME
			2	6-26	10YR4/6 dark yellowish brown silty sand	4 quartz, 1 greenstone, 1 chert flake	77.7 ME
			3	26-30	2.5Y5/6 light olive brown sand with 15% gravel, till		77.7 ME
46	6	2.5m South 1/4 mesh	1	0-6	10YR2/1 black fine silty sand with root mat	1 fcr	77.7 ME
			2	6-26	10YR4/6 dark yellowish brown silty sand		77.7 ME
			3	26-30	2.5Y5/6 light olive brown sand with 15% gravel, till		77.7 ME
46	6	2.5m West 1/8 mesh	1	0-7	10YR2/1 black fine silty sand with root mat	4 quartz flakes	77.7 ME
			2	7-18	10YR4/6 dark yellowish brown silty sand	1quartz and 1 basalt flake	77.7 ME
			3	18-30	2.5Y5/6 light olive brown sand with 15% gravel, till		77.7 ME
				S002.001	Surface	Chert Core	77.7 ME
				S002.002	Surface	Rhyolite chunk	77.7 ME
				S002.003	Surface	FCR	77.7 ME
				S002.004	Surface	FCR (possible), 2 flakes	77.7 ME
46	7		1	0-6	10YR3/3 dark brown silty sand with root mat		
			2	6-8	10YR5/8 yellowish brown silt		
			3	8-15	10YR6/6 brownish yellow fine silt-loess		
			4	15-19	10YR6/4light yellowish brown sand and gravel		southern slop

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
46	8		1	0-7	10YR3/3 dark brown silty sand with root mat		
			2	7-12	10YR5/8 yellowish brown silt		
			3	12-18	10YR6/6 brownish yellow fine silt-loess		till
			4	18-25	10YR6/4light yellowish brown sand and gravel		southern slope
46	9		1	0-6	10YR3/3 dark brown silty sand with root mat		
			2	6-13	10YR5/8 yellowish brown silt		
			3	13-19	10YR6/6 brownish yellow fine silt-loess		till
			4	19-24	10YR6/4light yellowish brown sand and gravel		southern slope
46	10		1	0-4	10YR3/3 dark brown silty sand with root mat		
			2	4-11	10YR5/8 yellowish brown silt		
			3	11-21	10YR6/6 brownish yellow fine silt-loess		till
			4	21-30	10YR6/4light yellowish brown sand and gravel		southern slope
46	11		1	0-7	10YR3/3 dark brown silty sand with root mat		
			2	7-14	10YR5/8 yellowish brown silt		
			3	14-23	10YR6/6 brownish yellow fine silt-loess		till
			4	23-40	10YR6/4light yellowish brown sand and gravel		southern slope
46	12		1	0-6	10YR3/3 dark brown silty sand with root mat		
			2	6-13	10YR5/8 yellowish brown silt		
			3	13-19	10YR6/6 brownish yellow fine silt-loess		till
			4	19-28	10YR6/4light yellowish brown sand and gravel		southern slope
46	13		1	0-4	10YR3/3 dark brown silty sand with root mat		
			2	4-21	10YR5/8 yellowish brown silt		
			3	21-30	10YR6/6 brownish yellow fine silt-loess		till
			4	30-35	10YR6/4light yellowish brown sand and gravel		southern slope
46	14		1	0-6	10YR3/3 dark brown silty sand with root mat		
			2	6-11	10YR5/8 yellowish brown silty sand		stopped at top of till
			3	11-29	10YR6/6 brownish yellow fine silty sand 25% gravel, till		north of dirt road
46	15		1	0-5	10YR3/3 dark brown silty sand with root mat		
			2	5-11	10YR5/8 yellowish brown silty sand		stopped at top of till
			3	11-25	10YR6/6 brownish yellow fine silty sand 25% gravel, till		south of dirt road
46	16		1	0-9	10YR3/3 dark brown silty sand with root mat		
			2	9-12	10YR5/8 yellowish brown silty sand		stopped at top of till
			3	12-31	10YR6/6 brownish yellow fine silty sand 25% gravel, till		near dirt road
46	17		1	0-7	10YR3/3 dark brown silty sand with root mat		
			2	7-12	10YR5/8 yellowish brown silty sand		stopped at till
			3	12-24	10YR6/6 brownish yellow fine silty sand 25% gravel, till		ridge at edge of disturbance
46	18		1	0-8	10YR3/3 dark brown silty sand with root mat		
			2	8-14	10YR5/8 yellowish brown silty sand		top of till
			3	14-21	10YR6/6 brownish yellow fine silty sand 25% gravel, till		mid kettle divide , north slope

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
47	1		1	0-7	10YR3/3 dark brown silty sand with root mat		
			2	7-17	10YR5/2 grayish brown silty loam		till
			3	17-30	10YR6/6 brownish yellow fine silty sand 20% gravel, till		mid kettle divide
47	2		1	0-4	10YR3/3 dark brown silty sand with root mat		till
			2	4-16	10YR6/6 brownish yellow fine silty sand 10% gravel		till
47	3		1	0-3	10YR3/3 dark brown silty sand with root mat		
			2	3-7	10YR5/2 grayish brown silty loam		
			3	7-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		mid kettle divide
47	4		1	0-3	10YR3/3 dark brown silty sand with root mat		
			2	3-14	10YR6/6 brownish yellow fine silty sand 20% gravel, till		mid kettle divide
47	5		1	0-6	10YR3/3 dark brown silty sand with root mat		
			2	6-21	10YR6/6 brownish yellow fine silty sand 20% gravel, till		mid kettle divide
47	6		1	0-3	10YR3/3 dark brown silty sand with root mat		
			2	3-15	10YR6/6 brownish yellow fine silty sand 20% gravel, till		mid kettle divide
47	7		1	0-5	10YR3/3 dark brown silty sand with root mat		mid kettle divide
			2	5-15	10YR6/6 brownish yellow fine silty sand 20% gravel, till		southern slope
47	8		1	0-5	10YR3/3 dark brown silty sand with root mat		
			2	5-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	9		1	0-4	10YR3/3 dark brown silty sand with root mat		
			2	4-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	10		1	0-7	10YR3/3 dark brown silty sand with root mat		
			2	7-16	10YR5/2 grayish brown silty loam		
			3	16-24	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	11		1	0-5	10YR3/3 dark brown silty sand with root mat		
			2	5-10	10YR5/2 grayish brown silty loam		
			3	10-19	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	12		1	0-7	10YR3/3 dark brown silty sand with root mat		mid kettle divide
			2	7-23	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	13		1	0-7	10YR3/3 dark brown silty sand with root mat		mid kettle divide
			2	7-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		
47	14		1	0-10	10YR3/3 dark brown silty sand with root mat		5m north of gravel rd
			2	10-31	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Subsoil at base
47	15		1	0-7	10YR3/3 dark brown silty sand with root mat		5m south of gravel road
			2	7-22	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Subsoil at base
47	16		1	0-7	10YR3/3 dark brown silty sand with root mat		Mid kettle divide
			2	7-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Subsoil at base
47	17		1	0-5	10YR3/3 dark brown silty sand with root mat		Mid kettle divide
			2	5-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Subsoil at base

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
47	18		1	0-7	10YR3/3 dark brown silty sand with root mat		Subsoil at base
			2	7-17	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Mid kettle divide
47	19		1	0-9	10YR3/3 dark brown silty sand with root mat		Subsoil at base
			2	9-19	10YR6/6 brownish yellow fine silty sand 20% gravel, till		Mid kettle divide
48	1		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle west edge radar
			2	2-5	10YR5/2grayish brown sandy clay		
			3	5-12	7.5YR4/4 brown sandy loam		
			4	12-29	10YR5/8 yellowish brown silty loam		
			5	29-32	10YR6/6 brownish yellow silty and with 20% gravel, till		
48	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west
			2	2-4	10YR5/2grayish brown sandy clay		
			3	4-11	7.5YR4/4 brown sandy loam		
			4	11-28	10YR5/8 yellowish brown silty loam		
			5	28-30	10YR6/6 brownish yellow silty and with 20% gravel, till		till
48	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west
			2	2-5	10YR5/2grayish brown sandy clay		
			3	5-12	7.5YR4/4 brown sandy loam		
			4	12-28	10YR5/8 yellowish brown silty loam		
			5	28-32	10YR6/6 brownish yellow silty and with 20% gravel, till		
48	4		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		id kettle divide west edge
			2	2-5	10YR5/2grayish brown sandy clay		
			3	5-12	7.5YR4/4 brown sandy loam		
			4	12-28	10YR5/8 yellowish brown silty loam		
			5	28-32	10YR6/6 brownish yellow silty and with 20% gravel, till		
49	1		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west
			2	2-4	10YR5/2grayish brown sandy clay		
			3	4-8	7.5YR4/4 brown sandy loam		
			4	8-25	10YR5/8 yellowish brown silty loam		
			5	25-30	10YR6/6 brownish yellow silty and with 20% gravel, till		
49	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west
			2	2-5	10YR5/2grayish brown sandy clay		
			3	5-10	7.5YR4/4 brown sandy loam		
			4	10-27	10YR5/8 yellowish brown silty loam		
			5	27-30	10YR6/6 brownish yellow silty and with 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
49	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west
			2	2-7	10YR5/2grayish brown sandy clay		
			3	7-12	7.5YR4/4 brown sandy loam		
			4	12-28	10YR5/8 yellowish brown silty loam		
			5	28-32	10YR6/6 brownish yellow silty and with 20% gravel, till		
49	4		1	0-3	10YR3/2 very dark grayish brown silty sand and root mat		mid kettle divide west edg
			2	3-6	10YR5/2grayish brown sandy clay		
			3	6-11	7.5YR4/4 brown sandy loam		
			4	11-25	10YR5/8 yellowish brown silty loam		
			5	25-31	10YR6/6 brownish yellow silty and with 20% gravel, till		
50	1		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		West side of kettle 5
			2	2-4	10YR5/2grayish brown sandy clay		
			3	4-22	7.5YR4/4 brown sandy loam		
			4	22-30	10YR5/8 yellowish brown silty loam		
			5	30-38	10YR6/6 brownish yellow silty and with 20% gravel, till		
50	2		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		West side of kettle 5
			2	2-4	10YR5/2grayish brown sandy clay		
			3	4-22	7.5YR4/4 brown sandy loam		
			4	22-30	10YR5/8 yellowish brown silty loam		
			5	30-38	10YR6/6 brownish yellow silty and with 20% gravel, till		
50	3		1	0-2	10YR3/2 very dark grayish brown silty sand and root mat		Southern slope
			2	2-4	10YR5/2grayish brown sandy clay		
			3	4-22	7.5YR4/4 brown sandy loam		
			4	22-30	10YR5/8 yellowish brown silty loam		
			5	30-38	10YR6/6 brownish yellow silty and with 20% gravel, till		
51	1		1	0-10	10YR3/3 dark brown silty sand with root mat		mid kettle / 15m E of dirt
			2	10-15	10YR5/8 yellowish brown silty sand		
			3	15-25	10YR6/6 brownish yellow fine silty sand 25% gravel, till		
51	2		1	0-3	10YR3/3 dark brown silty sand with root mat		mid kettle / 15m E of dirt
			2	3-15	10YR5/8 yellowish brown silty sand		
51	3		1	0-3	10YR6/6 brownish yellow fine silty sand 25% gravel, till		mid kettle / 15m E of dirt
			2	3-10	10YR3/3 dark brown silty sand with root mat		mid kettle / 15m E of dirt
			3	10-15	10YR5/8 yellowish brown silty sand		
52	1		1	0-7	10YR3/3 dark brown silty sand and root mat		
			2	7-15	10YR4/6 dark yellowish brown silty sand with 10% gravel		
			3	15-39	10YR7/2 light gray silty sand with 20% gravel, till		
			4	39-40	10YR7/2 light gray coarse sand		
52	2		1	0-9	10YR3/3 dark brown silty sand and root mat		
			2	9-22	10YR4/6 dark yellowish brown silty sand with 10% gravel		
			3	22-32	10YR7/2 light gray silty sand with 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
53	1		1	0-13	10YR3/3 dark brown silty sand and root mat		
			2	13-30	10YR6/8 brownish yellow fine sandy loam with 20% gravel, till		
			3	30-48	10YR7/2 light gray coarse sand		
53	2		1	0-20	10YR3/3 dark brown silty sand and root mat		
			2	20-38	10YR6/8 brownish yellow fine sandy loam with 20% gravel, till		
			3	38-45	10YR7/2 light gray coarse sand		
54	1		1	0-9	10YR3/3 dark brown silty sand and root mat		
			2	9-41	10YR6/8 brownish yellow fine sandy loam with 20% gravel, till		
			3	41-61	10YR7/2 light gray coarse sand		
			4	61-80	10YR72/ light gray coarse sand and 15% gravel		
54	2		1	0-10	10YR3/3 dark brown silty sand and root mat		
			2	10-39	10YR4/6 dark yellowish brown silty sand with 10% gravel		
			3	39-79	10YR7/2 light gray silty sand with 20% gravel, till		
55	1		1	0-10	10YR3/3 dark brown silty sand and root mat		
			2	10-35	10YR4/6 dark yellowish brown silty sand with 10% gravel		
			3	35-50	10YR7/2 light gray silty sand with 20% gravel, till		
55	2		1	0-10	10YR3/3 dark brown silty sand and root mat		
			2	10-22	10YR4/6 dark yellowish brown fine sandy loam		
			3	22-53	2.5Y5/3 and 2.5Y5/4 silty loam with medium sands	1 rhyolite flake, 1 fcr	Site 77.7 ME
			4	53-80	10YR6/8 silt with medium sands to coarse sands and gravel		
56	1		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-15	10YR6/4 yellowish brown silty sand with 20% gravel, till		
56	2		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-17	10YR6/4 yellowish brown silty sand with 20% gravel, till		
56	3		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-8	10YR7/2 light gray silt		
			3	8-18	10YR6/4 brownish yellow silty sand with 20% gravel		
56	4		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-7	10YR7/2 light gray silt		
			3	7-20	10YR6/4 brownish yellow silty sand with 20% gravel		
56	5		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-13	10YR6/4 yellowish brown silty sand with 20% gravel, till		
56	6		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-20	10YR6/4 yellowish brown silty sand with 20% gravel, till		
56	7		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-11	10YR7/2 light gray silt		
			3	11-21	10YR6/4 brownish yellow silty sand with 20% gravel		
56	8		1	0-8	10YR3/3 dark brown silt loam with root mat		
			2	8-10	10YR7/2 light gray silt		
			3	10-21	10YR6/4 brownish yellow silty sand with 20% gravel		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
56	9		1	0-8	10YR3/3 dark brown silty loam and root mat		
			2	8-32	10YR6/4 yellowish brown silty sand with 20% gravel, till		
56	10		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-20	10YR6/4 yellowish brown silty sand with 20% gravel, till		
57	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		Down slope
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-27	10YR5/8 yellowish brown sandy loam		
			5	27-39	10YR6/6 brownish yellow sandy loam 20% gravel, till		
57	2		1	0-6	10YR3/2 very dark grayish brown silty loam and root mat		Top of knoll
			2	6-17	10YR5/8 yellowish brown sandy loam, 20% gravel, till		
57	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		Top of kettle
			2	2-3	10YR5/2grayish brown sandy loam		
			3	3-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-33	10YR5/8 yellowish brown sandy loam		
			5	33-37	10YR6/6 brownish yellow sandy loam 20% gravel, till		
57	4		1	0-10	10YR3/2 very dark grayish brown silty loam and root mat		20m w of dirt road
			2	10-23	10YR5/8 yellowish brown sandy loam, 20% gravel, till		
57	5		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		Top of knoll
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-28	10YR5/8 yellowish brown sandy loam		
			5	28-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
57	6		1	0-10	10YR3/2 very dark grayish brown silty loam and root mat		
			2	10-20	10YR5/2grayish brown sandy loam		
			3	20-23	7.5YR4/4 brown silty loam		
57	7		1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-10	2.5Y4/4 light olive brown albic		
			3	10-24	10YR5/2 grayish brown sandy loam		
			4	24-27	7.5YR4/4 brown silty loam		
57	8		1	0-3	10YR3/2 very dark grayish brown silty loam and root mat		Downslope,20m east of rd
			2	3-5	10YR5/2grayish brown sandy loam		
			3	5-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
			5	28-30	10YR6/6 brownish yellow sandy loam 20% gravel, till		
57	9		1	0-3	10YR3/3 dark brown silty loam with root mat		
			2	3-12	10YR5/8 yellowish brown sandy loam		
			3	12-24	10YR6/6 brownish yellow sandy loam 20% gravel, till		
57	10		1	0-10	10YR3/3 dark brown silty loam with root mat		
			2	10-23	10YR5/8 yellowish brown sandy loam		
			3	23-34	7.5YR4/4 brown silty loam		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
57	11		1	0-5	10YR3/3 dark brown silty loam and root mat		Blueberry field
			2	5-30	10YR6/4 yellowish brown silty sand with 20% gravel, till		
58	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		Barrier down slope
			2	2-3	10YR5/2grayish brown sandy loam		
			3	3-8	10YR4/4 dark yellowish brown sandy loam		
			4	8-29	10YR5/8 yellowish brown sandy loam		
			5	29-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
58	2		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-6	10YR4/4 dark yellowish brown sandy loam		
			4	6-28	10YR5/8 yellowish brown sandy loam		
			5	28-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
58	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-3	10YR5/2grayish brown sandy loam		
			3	3-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-29	10YR5/8 yellowish brown sandy loam		
			5	29-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
58	4		1	0-3	10YR3/2 very dark grayish brown silty loam and root mat		
			2	3-4	10YR5/2grayish brown sandy loam		
			3	4-6	10YR4/4 dark yellowish brown sandy loam		
			4	6-29	10YR5/8 yellowish brown sandy loam		
			5	29-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
58	5		1	0-3	10YR3/2 very dark grayish brown silty loam and root mat		
			2	3-5	10YR5/2grayish brown sandy loam		
			3	5-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-27	10YR5/8 yellowish brown sandy loam		
			5	27-39	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	1		1	0-3	10YR3/3 dark brown silty loam with root mat		
			2	3-18	10YR5/8 yellowish brown sandy loam		
			3	18-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	2		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-13	10YR5/8 yellowish brown sandy loam		
			3	13-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	3		1	0-11	10YR3/3 dark brown silty loam with root mat		
			2	11-21	10YR5/8 yellowish brown sandy loam		
			3	21-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	4		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-22	10YR5/8 yellowish brown sandy loam		
			3	22-34	10YR6/6 brownish yellow sandy loam 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
59	5		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-21	10YR5/8 yellowish brown sandy loam		
			3	21-35	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	6		1	0-9	10YR3/3 dark brown silty loam with root mat		
			2	9-17	10YR5/8 yellowish brown sandy loam		
			3	17-40	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	7		1	0-5	10YR3/3 dark brown silty loam with root mat		
			2	5-10	10YR5/8 yellowish brown sandy loam		
			3	10-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
59	8		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-12	10YR5/8 yellowish brown sandy loam		
			3	12-29	10YR6/6 brownish yellow sandy loam 20% gravel, till		
60	1		1	0-9	10YR3/3 dark brown silty loam with root mat		
			2	9-21	10YR6/4 light yellowish brown sandy silt with 20% gravel, till		
60	2		1	0-5	10YR3/3 dark brown silty loam with root mat		
			2	5-21	10YR6/4 light yellowish brown sandy silt with 20% gravel, till		
60	3		1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-16	10YR6/4 light yellowish brown sandy silt with 20% gravel, till		
60	4		1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-18	10YR6/4 light yellowish brown sandy silt with 20% gravel, till		
60	5		1	0-5	10YR3/3 dark brown silty loam with root mat		
			2	5-15	10YR6/4 light yellowish brown sandy silt with 20% gravel, till		
61	1		1	0-4	10YR3/3 dark brown silty loam with root mat		
			2	4-11	10YR5/8 yellowish brown sandy loam		
			3	11-28	10YR6/6 brownish yellow sandy loam 20% gravel, till		
61	2		1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-11	10YR5/8 yellowish brown sandy loam		
			3	11-29	10YR6/6 brownish yellow sandy loam 20% gravel, till		
61	3		1	0-4	10YR3/3 dark brown silty loam with root mat		
			2	4-14	10YR5/8 yellowish brown sandy loam		
			3	14-29	10YR6/6 brownish yellow sandy loam 20% gravel, till		
61	4		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-16	10YR5/8 yellowish brown sandy loam		
			3	16-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
62	1		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-12	10YR5/8 yellowish brown sandy loam		
			3	12-24	10YR6/6 brownish yellow sandy loam 20% gravel, till		
62	2		1	0-13	10YR3/3 dark brown silty loam with root mat		
			2	13-18	10YR5/8 yellowish brown sandy loam		
			3	13-28	10YR6/6 brownish yellow sandy loam 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
62	3		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-10	10YR7/2 light gray silty loam		
			3	10-18	10YR5/8 yellowish brown sandy loam		
			4	18-28	10YR6/6 brownish yellow sandy loam 20% gravel, till		
62	4		1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-14	10YR5/8 yellowish brown sandy loam		
			3	14-29	10YR6/6 brownish yellow sandy loam 20% gravel, till		
62	5		1	0-9	10YR3/3 dark brown silty loam with root mat		
			2	9-17	10YR5/8 yellowish brown sandy loam		
			3	17-28	10YR6/6 brownish yellow sandy loam 20% gravel, till		
62	6		1	0-4	10YR3/3 dark brown silty loam with root mat		
			2	4-14	10YR5/8 yellowish brown sandy loam		
			3	14-28	10YR6/6 brownish yellow sandy loam 20% gravel, till		
63	1		1	0-12	10YR2/2 dark brown silty loam with root mat		
			2	12-19	7.5YR4/4 brown fine silty sand		
			3	19-30	10YR6/6 brownish yellow silty sand		
63	2		1	0-14	10YR3/3 dark brown silty loam with root mat		
			2	14-24	7.5YR4/4 brown fine silty sand		
			3	24-38	10YR6/6 brownish yellow silty sand		
63	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-6	10YR4/4 dark yellowish brown sandy loam		
			4	6-29	10YR5/8 yellowish brown sandy loam		
			5	29-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
63	4		1	0-4	10YR3/3 dark brown silty loam with root mat		
			2	4-20	7.5YR4/4 brown fine silty sand 15% gravel		
63	5		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-20	7.5YR4/4 brown fine silty sand 15% gravel		
63	6		1	0-12	10YR3/3 dark brown silty loam with root mat		
			2	12-18	7.5YR4/4 brown fine silty sand		
			3	18-31	10YR6/6 brownish yellow silty sand		
64	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-6	10YR4/4 dark yellowish brown sandy loam		
			4	6-29	10YR5/8 yellowish brown sandy loam		
			5	29-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
64	2		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
			5	28-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
64	3		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-15	7.5YR4/4 brown fine silty sand		
			3	15-31	10YR6/6 brownish yellow silty sand		
64	4		1	0-5	10YR3/3 dark brown silty loam with root mat		
			2	5-17	7.5YR4/4 brown fine silty sand		
			3	17-31	10YR6/6 brownish yellow silty sand		
64	5		1	0-8	10YR3/3 dark brown silty loam with root mat		
			2	8-22	7.5YR4/4 brown fine silty sand 15% gravel		
64	6		1	0-8	10YR3/3 dark brown silty loam with root mat		
			2	8-20	7.5YR4/4 brown fine silty sand 20% gravel		
64	7		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-29	10YR5/8 yellowish brown sandy loam		
			5	29-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
65	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
			5	28-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
65	2		1	0-5	10YR3/3 dark brown silty loam with root mat		
			3	5-16	7.5YR4/4 brown fine silty sand 15% gravel		
65	3		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-25	7.5YR4/4 brown fine silty sand 15% gravel		
65	4		1	0-18	10YR3/3 dark brown silty loam with root mat		
			2	18-24	7.5YR4/4 brown fine silty sand		
			3	24-36	10YR6/6 brownish yellow silty sand		
66	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-8	10YR4/4 dark yellowish brown sandy loam		
			4	8-29	10YR5/8 yellowish brown sandy loam		
			5	29-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
66	2		1	0-3	10YR3/2 very dark grayish brown silty loam and root mat		
			2	3-4	10YR5/2grayish brown sandy loam		
			3	4-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
			5	28-34	10YR6/6 brownish yellow sandy loam 20% gravel, till		

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
66	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-10	10YR4/4 dark yellowish brown sandy loam		
			4	10-30	10YR5/8 yellowish brown sandy loam		
			5	30-35	10YR6/6 brownish yellow sandy loam 20% gravel, till		
66	4		1	0-5	10YR3/3 dark brown silty loam with root mat		
			2	5-20	7.5YR4/4 brown fine silty sand 15% gravel		
66	5		1	0-12	10YR3/3 dark brown silty loam with root mat		
			2	12-24	7.5YR4/4 brown fine silty sand		
			3	24-36	10YR6/6 brownish yellow silty sand		
67	1		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-16	7.5YR4/4 brown fine silty sand		
			3	16-28	10YR6/6 brownish yellow silty sand		
67	2		1	0-10	10YR3/3 dark brown silty loam with root mat		
			2	10-28	7.5YR4/4 brown fine silty sand		
67	3		1	0-10	10YR3/3 dark brown silty loam with root mat		
			2	10-20	7.5YR4/4 brown fine silty sand		
67	4		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-26	10YR5/8 yellowish brown sandy loam		
			5	26-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
68	1		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-28	7.5YR4/4 brown fine silty sand		
68	2		1	0-4	10YR3/3 dark brown silt with root mat		
			2	4-6	10YR7/2 light gray silt		
			3	6-16	7.5YR4/4 dark yellowish brown sandy loam		
68	3		1	0-9	10YR3/3 dark brown silty loam with root mat		
			2	9-18	7.5YR4/4 brown fine silty sand		
			3	18-29	10YR6/6 brownish yellow silty sand		
68	4		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-26	10YR5/8 yellowish brown sandy loam		
			5	26-33	10YR6/6 brownish yellow sandy loam 20% gravel, till		
69	1		1	0-21	10YR3/3 dark brown silty loam with root mat		
			2	21-35	7.5YR4/4 brown fine silty sand		
69	2		1	0-17	10YR3/3 dark brown silty loam with root mat		
			2	17-24	7.5YR4/4 brown fine silty sand		
			3	24-32	10YR6/6 brownish yellow silty sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 1

Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
69	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-27	10YR5/8 yellowish brown sandy loam		
			5	27-34	10YR6/6 brownish yellow sandy loam 20% gravel, till		Top of knoll near roadway
70	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-3	10YR5/2grayish brown sandy loam		
			3	3-6	10YR4/4 dark yellowish brown sandy loam		
			4	6-28	10YR5/8 yellowish brown sandy loam		
			5	28-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
71	1		1	0-4	10YR3/3 dark brown silty loam with root mat		
			2	4-20	7.5YR4/4 brown fine silty sand		
71	2		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-27	7.5YR4/4 brown fine silty sand		
72	1		1	0-3	10YR3/3 dark brown silty loam with root mat		
			2	3-12	7.5YR4/4 brown fine silty sand		
			3	12-40	10YR6/6 brownish yellow silty sand		
72	2		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-21	7.5YR4/4 brown fine silty sand		Rock impasse
73	3		1	0-3	10YR3/2 very dark grayish brown silty loam and root mat		down slope
			2	3-4	10YR5/2grayish brown sandy loam		
			3	4-9	10YR4/4 dark yellowish brown sandy loam		
			4	9-28	10YR5/8 yellowish brown sandy loam		
			4	28-32	10YR6/6 brownish yellow sandy loam 20% gravel, till		
73	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-8	10YR4/4 dark yellowish brown sandy loam		
			4	8-29	10YR5/8 yellowish brown sandy loam		
			5	29-31	10YR6/6 brownish yellow sandy loam 20% gravel, till		
73	2		1	0-10	Disturbed salt and pepper coarse sand		gravel access rd
74	1		1	0-4	10YR3/3 dark brown silt loam with root mat		
			2	4-9	10YR7/2 light gray silt		
			3	9-40	7.5 YR brown sandy silt with 30% gravel, till		
74	2		1	0-4	10YR3/3 dark brown silt loam with root mat		
			2	4-16	7.5 YR brown sandy silt with 30% gravel, till		
74	3		1	0-5	10YR3/3 dark brown silt loam with root mat		
			2	5-29	7.5 YR brown sandy silt with 30% gravel, till		
				S004.001	Surface	Rhyolite core	Very weathered
				S004.002	Surface	Rhyolite flake fragment	Very weathered

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Transect	STU	Radial	Level	Depth (cm)	Soil Description	Cultural Material	Comments
75	1		1	0-7	10YR3/3 dark brown silty loam		Open slope blueberry field
			2	7-24	10YR5/8 yellowish brown sandy silt		
			3	24-30	10YR6/6 brownish yellow sandy loam 20% gravel		
75	2		1	0-11	10YR3/3 dark brown silty loam		
			2	11-28	10YR5/8 yellowish brown sandy silt		
			3	28-31	10YR6/6 brownish yellow sandy loam 20% gravel		
75	3		1	0-8	10YR3/3 dark brown silty loam		
			2	8-21	10YR5/8 yellowish brown sandy silt		
			3	21-28	10YR6/6 brownish yellow sandy loam 20% gravel		
75	4		1	0-12	10YR3/3 dark brown silty loam		
			2	12-24	10YR5/8 yellowish brown sandy silt		
			3	24-30	10YR6/6 brownish yellow sandy loam 20% gravel		
76	1		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-4	10YR5/2grayish brown sandy loam		
			3	4-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-28	10YR5/8 yellowish brown sandy loam		
			5	28-30	10YR6/6 brownish yellow sandy loam 20% gravel, till		
76	2		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-3	10YR5/2grayish brown sandy loam		
			3	3-7	10YR4/4 dark yellowish brown sandy loam		
			4	7-25	10YR5/8 yellowish brown sandy loam		
			5	25-29	10YR7/1light gray silty loam		
76	3		1	0-2	10YR3/2 very dark grayish brown silty loam and root mat		
			2	2-5	10YR5/2grayish brown sandy loam		
			3	5-8	10YR4/4 dark yellowish brown sandy loam		
			4	8-29	10YR5/8 yellowish brown sandy loam		
			5	29-35	10YR6/6 brownish yellow sandy loam 20% gravel, till		
77	1		1	0-4	10YR3/3 dark brown silt loam with root mat		
			2	4-20	7.5 YR brown sandy silt with 30% gravel, till		

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Sector 2

Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
1	1		1	0-6	10YR3/3 dark brown silty loam with root mat		In woods
			2	6-11	10YR7/2 light gray silt		
			3	11-36	10YR5/4 yellowish brown silty sand		
			4	36-46	10YR5/6 yellowish coarse sand 10% gravel, till		
1	2		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-10	10YR7/2 light gray silt		
			3	10-15	10YR5/8 yellowish brown silty sand		
			4	15-27	10YR6/6 brownish yellow silty sand		
			5	27-48	10YR5/6 yellowish brown coarse sand		
1	3		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-9	10YR7/2 light gray silt		
			3	9-12	10YR5/8 yellowish brown silty sand		
			4	12-61	10YR5/4 yellowish brown fine silt sand		
1	4		1	0-8	10YR3/3 dark brown silty loam and root mat		
			2	8-14	10YR7/2 light gray silt		
			3	14-39	10YR5/4 yellowish brown silty sand 10% gravel, till		
			4	39-49	10YR5/6 yellowish brown coarse sand		
1	5		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-15	10YR7/2 light gray silt		
			3	15-25	10YR5/4 yellowish brown silty sand 10% gravel, till		
1	6		1	0-4	10YR3/4 dark yellowish brown fine silty sand		
			2	4-7	10YR7/2 light gray silt		
			3	7-14	10YR5/8 yellowish brown silty sand		
			4	14-58	10YR5/4 yellowish brown fine silt sand		
1	7		1	0-4	10YR3/4 dark yellowish brown fine silty sand		
			2	4-8	10YR7/2 light gray silt		
			3	8-12	10YR5/8 yellowish brown silty sand		
			4	12-38	10YR5/4 yellowish brown fine silt sand		
2	1		1	0-4	10YR2/2 black silty loam		In woods
			2	4-6	10YR5/2 grayish brown sand		
			3	6-20	10YR4/6 dark yellowish brown sand		
			4	20-56	10YR7/4 very pale brown sand		
			5	56-70	10YR6/4 light yellowish brown compact sand		
			6	70-72	10YR5/4 yellowish brown sand with gravel		
2	2		1	0-5	10YR2/2 black silty loam		
			2	5-9	10YR5/2 grayish brown sand		
			3	9-22	10YR4/6 dark yellowish brown sand		
			4	22-59	10YR7/4 very pale brown sand		
			5	59-65	10YR6/4 light yellowish brown compact sand		
			6	65-70	10YR5/4 yellowish brown sand with gravel		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
2	3		1	0-4	10YR2/2 black silty loam		
			2	4-10	10YR5/2 grayish brown sand		
			3	10-23	10YR4/6 dark yellowish brown sand		
			4	23-35	10YR7/4 very pale brown sand		
2	4		1	0-5	10YR2/2 black silty loam		
			2	5-9	10YR5/2 grayish brown sand		
			3	9-22	10YR4/6 dark yellowish brown sand		
			4	22-49	10YR7/4 very pale brown sand		
			5	49-62	10YR6/4 light yellowish brown compact sand		
			6	62-70	10YR5/4 yellowish brown sand 20% gravel		
2	5		1	0-6	10YR2/2 black silty loam		
			2	6-12	10YR5/2 grayish brown sand		
			3	12-29	10YR4/6 dark yellowish brown sand		
			4	29-36	10YR7/4 very pale brown sand		
			5	36-60	10YR6/4 light yellowish brown compact sand		
			6	60-64	10YR5/4 yellowish brown sand 20% gravel		
3	1		1	0-10	10YR3/3 dark brown silty loam with root mat		Edge of ridge
			2	10-39	10YR5/4 yellowish brown silt sand		
			3	39-49	10YR5/6 yellowish brown coarse sand		
3	2		1	0-10	10YR3/3 dark brown loam with root mat		
			2	10-38	10YR5/4 yellowish brown silt sand		
			3	38-48	10YR5/6 yellowish brown coarse sand		
3	3		1	0-10	10YR3/3 dark brown silty loam with root mat		
			2	10-14	10YR7/2 light gray silt		
			3	14-28	10YR5/4 yellowish brown silty sand		
			4	28-38	10YR5/6 yellowish brown coarse sand		
4	1		1	0-8	10YR3/3 dark brown silty loam with root mat		Edge of ridge
			2	8-12	10YR7/2 light gray silt		
			3	12-31	10YR5/4 yellowish brown silty sand		
			4	31-42	10YR5/6 yellowish brown coarse sand		
4	2		1	0-8	10YR3/3 dark brown silty loam with root mat		
			2	8-12	10YR7/2 light gray silt		
			3	12-31	10YR5/4 yellowish brown silty sand		
			4	31-42	10YR5/6 yellowish brown coarse sand		
4	3		1	0-5	10YR2/2 black silty loam		
			2	5-12	10YR5/2 grayish brown sand		
			3	12-28	10YR4/6 dark yellowish brown sand		
			4	28-40	10YR7/4 very pale brown sand		
			5	40-49	10YR6/4 light yellowish brown compact sand		
			6	49-56	10YR5/4 yellowish brown sand 20% gravel		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
4	4		1	0-5	10YR2/2 black silty loam		
			2	5-12	10YR5/2 grayish brown sand		
			3	12-31	10YR4/6 dark yellowish brown sand		
			4	31-42	10YR7/4 very pale brown sand		
			5	42-49	10YR6/4 light yellowish brown compact sand		
			6	49-54	10YR5/4 yellowish brown sand 20% gravel		
5	1		1	0-7	10YR2/2 black silty loam		Center ridge
			2	7-14	10YR5/2 grayish brown sand		
			3	14-29	10YR4/6 dark yellowish brown sand		
			4	29-38	10YR7/4 very pale brown sand		
			5	38-42	10YR6/4 light yellowish brown compact sand		
			6	42-51	10YR5/4 yellowish brown sand 20% gravel		
5	2		1	0-8	10YR2/2 black silty loam		
			2	8-16	10YR5/2 grayish brown sand		
			3	16-35	10YR4/6 dark yellowish brown sand		
			4	35-43	10YR7/4 very pale brown sand		
			5	43-60	10YR6/4 light yellowish brown compact sand		
5	3		1	0-5	10YR2/2 black silty loam		
			2	5-10	10YR5/2 grayish brown sand		
			3	10-29	10YR4/6 dark yellowish brown sand		
			4	29-46	10YR7/4 very pale brown sand		
			5	46-54	10YR6/4 light yellowish brown compact sand		
			6	55-61	10YR5/4 yellowish brown sand 20% gravel		
6	1		1	0-4	10YR3/2 very dark grayish brown silty loam		Center ridge
			2	4-9	10YR5/1 gray sandy clay		
			3	9-24	10YR4/6 dark yellowish brown sand		
			4	24-36	10YR7/4 very pale brown sand		
			5	36-49	10YR6/4 brownish yellow sand		
			6	49-61	10YR5/4 yellowish brown sand with gravel		
7	1		1	0-6	10YR3/3 dark brown silty loam with root mat		east of road
			2	6-20	10YR5/8 yellowish brown sandy silt		
			3	20-30	2.5Y7/6 yellow silty sand 20% gravel		
7	2		1	0-2	10YR3/2 very dark grayish brown silty loam		
			2	2-4	10YR5/2 grayish brown silt (albic)		
			3	4-10	7.5YR5/6 Strong brown sand		
			4	10-31	10YR6/6 brownish yellow sand		
			5	31-40	10YR6/4 light yellowish brown sand		
7	2		1	0-3	10YR3/4 dark yellowish brown silty loam		
			2	3-7	10YR7/2 light gray silt		
			3	7-34	10YR5/8 yellowish brown silty sand		
			4	34-42	10YR6/6 brownish yellow coarse sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
7	3	North	1	0-4	10YR3/4 dark yellowish brown silty loam		
			2	4-24	10YR5/8 yellowish brown silty sand		
			3	24-28	10YR7/2 light gray silt		
			4	28-33	10YR 6/6 brownish yellow coarse sand		
7	3	East	1	0-6	10YR3/4 dark yellowish brown silty loam		
			2	6-12	10YR5/8 yellowish brown silty sand		
			3	12-40	10YR7/2 light gray silt		
			4	40-43	10YR 6/6 brownish yellow coarse sand		
7	4		1	0-10	10YR3/3 dark brown silty loam with root mat	2 weathered rhyolite flakes	77.9 ME
			2	10-28	10YR5/8 yellowish brown sand		
			3	28-40	10YR6/4 light yellowish brown sand & gravel		
7	4	North	1	0-7	10YR3/3 dark brown silt loam with root mat		
			2	7-13	10YR6/6 brownish yellow silt with fine sand		
			3	13-29	10YR5/6 yellowish brown loess		
			4	29-35	10YR6/4 light yellowish brown fine silt sand		
7	4	East	1	0-7	10YR3/3 dark brown silty loam with root mat	1 fcr	77.9 ME
			2	7-27	10YR5/8 yellowish brown sandy silt		
			3	27-38	2.5Y 7/6 yellow sandy silt 30% gravel , till		
7	4	South-east	1	0-8	10YR2/2 black silty loam		
			2	8-31	10YR5/8 yellowish brown sand	1 basalt flake	77.9 ME
			3	31-47	7.5YR6/8 reddish yellow coarse sand		
			4	47-57	10YR8/3 very pale brown sand and gravel		
7	4	West	1	0-6	10YR3/3 dark brown silty loam with root mat		
			2	6-16	10YR5/8 yellowish brown sandy silt		
			3	16-26	2.5Y 7/6 yellow sandy silt 30% gravel , till		
7	5		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-22	10YR5/8 yellowish brown sandy silt		
			3	22-32	2.5Y 7/6 yellow sandy silt 30% gravel , till		
8	1		1	0-4	10YR3/4 dark yellowish brown fine silty sand		Edge of ridge
			2	4-6	10YR7/2 light gray silt		
			3	6-10	10YR5/8 yellowish brown silty sand		
			4	10-45	10YR5/4 yellowish brown fine silt sand		
8	2		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-12	10YR7/2 light gray silt		
			3	12-18	10YR5/8 yellowish brown silty sand		
			4	18-43	10YR5/4 yellowish brown fine silt sand		
9	1		1	0-6	10YR3/4 dark yellowish brown fine silty sand		ridge edge
			2	6-14	10YR7/2 light gray silt		
			3	14-19	10YR5/8 yellowish brown silty sand		
			4	19-36	10YR6/6 brownish yellow sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
9	2		1	0-17	10YR4/4 dark yellowish brown silty sand		
			2	17-38	10YR5/8 yellowish brown coarse sand		
9	3		1	0-12	10YR3/3 dark brown silty loam and root mat		
			2	12-18	10YR7/2 light gray silt		
			3	18-26	10YR3/4 dark yellowish brown silty sand		
			4	26-30	10YR5/6 yellowish brown coarse sand 10% gravel		
9	4		1	0-4	10YR3/4 dark yellowish brown fine silty sand		
			2	4-10	10YR7/2 light gray silt		
			3	10-28	10YR5/8 yellowish brown silty sand		
			4	28-35	10YR6/6 brownish yellow sand		
9	5		1	0-5	10YR3/4 dark yellowish brown fine silty sand		
			2	5-8	10YR7/2 light gray silt		
			3	5-14	10YR5/8 yellowish brown silty sand		
			4	14-38	10YR6/6 brownish yellow sand		
10	1		1	0-30	10YR5/4 yellowish brown silty sand		mid ridge
			2	30-48	10YR5/8 yellowish brown coarse sand		
10	2		1	0-5	10YR3/4 dark yellowish brown fine silty sand		
			2	5-10	10YR7/2 light gray silt		
			3	10-35	10YR5/8 yellowish brown silty sand		
			4	35-45	10YR6/6 brownish yellow sand		
10	3		1	0-5	10YR3/4 dark yellowish brown fine silty sand		
			2	5-20	10YR5/8 yellowish brown silty sand		
			3	20-31	10YR6/6 brownish yellow sand		
11	1		1	0-34	10YR5/4 yellowish brown silty sand		mid ridge
			2	34-58	10YR5/8 yellowish brown coarse sand		
11	2		1	0-7	10YR3/4 dark yellowish brown fine silty sand		
			2	7-10	10YR7/2 light gray silt		
			3	10-14	10YR5/8 yellowish brown silty sand		
			4	14-28	10YR6/6 brownish yellow sand		
11	3		1	0-4	10YR3/2 dark grayish brown silty sand		
			2	4-10	10YR5/4 yellowish brown sand		
			3	10-38	10YR5/8 yellowish brown coarse sand		
12	1		1	0-10	10YR3/2 dark grayish brown silty sand		mid ridge
			2	10-23	10YR5/4 yellowish brown sand		
			3	23-40	10YR5/8 yellowish brown coarse sand		
12	2		1	0-10	10YR2/2 black silty loam		
			2	10-21	10YR5/2 grayish brown sand		
			3	21-39	10YR4/6 dark yellowish brown sand		
			4	39-49	10YR7/4 very pale brown sand		
			5	49-61	10YR6/4 light yellowish brown compact sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
12	3		1	0-14	10YR5/6 yellowish brown silty sand		disturbed
			2	14-35	10YR6/6 brownish yellow silty sand		
13	1		1	0-9	10YR2/2 black silty loam		north edge of property
			2	9-16	10YR5/2 grayish brown sand		
			3	16-40	10YR4/6 dark yellowish brown sand		
			4	40-56	10YR7/4 very pale brown sand		
			5	56-62	10YR6/4 light yellowish brown compact sand		
13	2		1	0-10	10YR3/3 dark brown silty loam		
			2	10-24	10YR3/4 dark yellowish brown silty sand		
			3	24-34	10YR5/8 yellowish brown coarse sand		
13	3		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-10	10YR5/8 yellowish brown silty sand		
			3	10-48	10YR6/6 brownish yellow sand		
13	4		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-25	2.5Y7/4 pale yellow silty sand		
			3	25-35	10YR5/8 yellowish brown coarse sand 20% gravel		
14	1		1	0-10	10YR3/2 very dark grayish brown silty loam		north edge of property
			2	10-13	10YR5/2 grayish brown sand		
			3	13-23	10YR4/6 dark yellowish brown sand		
			4	23-33	10YR7/4 very pale brown sand		
			5	33-40	10YR6/4 light yellowish brown compact sand		
14	2		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-24	10YR5/8 yellowish brown silty sand		
			3	24-38	10YR6/6 brownish yellow sand		
14	3		1	0-7	10YR3/4 dark yellowish brown fine silty sand		
			2	7-15	10YR5/8 yellowish brown silty sand		
			3	15-35	10YR6/6 brownish yellow sand		
14	4		1	0-6	10YR3/2 very dark grayish brown silty loam		
			2	6-11	10YR5/2 grayish brown sand		
			3	11-20	10YR4/6 dark yellowish brown sand		
			4	20-30	10YR7/4 very pale brown sand		
			5	30-34	10YR6/4 light yellowish brown compact sand		
14	5		1	0-6	10YR3/4 dark yellowish brown fine silty sand		
			2	6-14	10YR5/8 yellowish brown silty sand		
			3	14-38	10YR6/6 brownish yellow sand		

Columbia Falls, Maine OTHB-E Radar Station
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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
14	6		1	0-4	10YR3/4 dark yellowish brown fine silty sand		
			2	4-10	10YR7/2 light gray silt		
			3	10-21	10YR5/8 yellowish brown silty sand		
			4	21-32	10YR6/6 brownish yellow sand		
15	1		1	0-10	10YR3/2 very dark grayish brown silty loam		cut bank rear of station building
			2	10-26	10YR5/2 grayish brown sand		
15	1		3	26-40	10YR4/6 dark yellowish brown sand		
			4	40-56	10YR7/4 very pale brown sand		
15	2		1	0-10	10YR3/3 dark brown silt loam with root mat		
			2	10-25	2.5Y7/4 yellow sandy silt		
			3	25-35	10YR5/8 yellowish brown coarse sand		
15	3		1	0-7	10YR3/3 dark brown silty loam with root mat		
			2	7-10	10YR5/8 yellowish brown silty sand		
			3	10-35	10YR6/6 brownish yellow sand		
16	1		1	0-55	2.5Y4/3olive brown fine silt sand	no top soil	Cranberry bog
16	2		1	0-52	10YR4/6 dark yellowish brown peat with silty sand	organics	
16	3		1	0-37	10YR3/3 dark brown silty loam and root mat		
16	4		1	0-60	10YR3/2 dark grayish brown silty loam		
			2	60-65	10YR6/6 brownish yellow coarse sand		
16	5		1	0-55	10YR3/2 dark grayish brown silty loam		
			2	55-61	10YR6/6 brownish yellow coarse sand		
17	1		1	0-42	10YR6/6 brownish yellow coarse sand and cobbles		Cranberry bog
18	1		1	0-30	10YR6/6 brownish yellow coarse sand		Cranberry bog
18	2		1	0-41	10YR4/6 dark yellowish brown peat, coarse sand		
18	3		1	0-55	10YR3/2 very dark brown silty loam		
			2	55-60	10YR6/6 brownish yellow coarse sand		
18	4		1	0-23	10YR4/4 dark yellowish brown fine silt sand		
			2	23-33	10YR5/6 yellowish brown fine sand		
19	1		1	0-4	10YR4/1 dark gray silty loam		Cranberry bog
			2	4-16	10YR4/6 dark yellowish brown sand		
			3	16-31	10YR7/6 yellow sand		
			4	31-42	10YR6/6 brownish yellow coarse sand		
19	2		1	0-29	10YR7/6 yellow sand with fine silt		
			2	29-10	10YR6/6 brownish yellow coarse sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
19	3		1	0-6	10YR3/4 dark yellowish brown fine silt sand		
			2	6-24	10YR5/8 yellowish brown silty sand		
			3	24-30	10YR6/6 brownish yellow coarse sand		
19	4		1	0-4	10YR3/4 dark yellowish brown fine silt sand		
			2	4-24	10YR5/8 yellowish brown silty sand		
			3	24-30	10YR6/6 brownish yellow coarse sand		
20	1		1	0-40	10YR4/4 dark yellowish brown sand 90% gravel		Cranberry bog terrace
			2	40-45	10YR3/ dark grayish brown silty loam		
21	1		1	0-20	10YR4/4 dark yellowish brown sand 90% gravel		
			2	20-21	10YR3/ dark grayish brown silty loam		
22	1		1	0-41	10YR4/4 dark yellowish brown fill		
			2	41-52	10YR4/6 dark yellowish brown peat		
22	2		1	0-40	10YR4/6 dark yellowish brown peat		
22	3		1	0-32	10YR4/4 dark yellowish brown coarse sandy fill		
			2	32-40	10YR4/6 dark yellowish brown peat		
23	1		1	0-10	10YR3/2 dark grayish brown silty loam and root mat		Cranberry bog terrace
			2	10-23	2.5Y5/6 light olive brown coarse sand 10% gravel		
23	2		1	0-21	7.5YR6/4 reddish yellow medium silty sand		
			2	21-38	10YR5/6 yellowish brown medium sand		
23	3		1	0-10	10YR3/2 dark grayish brown silty loam and root mat		
			2	10-38	2.5Y5/6 light olive brown coarse sand 10% gravel		
23	4		1	0-18	7.5YR6/4 reddish yellow medium silty sand		
			2	18-36	10YR5/6 yellowish brown medium sand		
23	5		1	0-10	10YR3/2 dark grayish brown silty loam and root mat		
			2	10-30	10YR5/6 yellowish brown silty sand		
			3	30-40	10YYR6/6 brownish yellow coarse sand		
23	6		1	0-6	10YR3/2 dark grayish brown silty sand		
			2	6-21	10YR6/4 light yellowish brown silty sand		
			3	21-38	10YR5/4 yellowish brown fine silt sand		
23	6	North	1	0-4	10YR3/2 dark grayish brown silty loam and root mat	rhyolite pebble, possibly worked	77.8 ME
			2	4-10	10YR7/2 light gray silt		
			3	10-30	10YR6/6 brownish yellow coarse sand		
			4	30-39	10YR5/8 yellowish brown silty sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
23	6	East	1	0-6	10YR3/2 very dark brown silty loam		
			2	6-9	10YR5/2 grayish brown sand		
			3	9-23	10YR5/3 brown sand		
			4	23-40	10YR5/6 yellowish brown sand		
			5	40-43	10YR5/8 yellowish brown sand and gravel		
23	6	South	1	0-6	10YR3/2 very dark brown silty loam		
			2	6-9	10YR5/2 grayish brown sand		
			3	9-22	10YR5/3 brown sand		
			4	22-37	10YR5/6 yellowish brown sand		
			5	37-49	10YR5/8 yellowish brown sand and gravel		
23	6	West	1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-23	2.5Y5/6 light olive brown sand		
			3	23-38	10YR5/8 yellowish brown sand and gravel		
23	7		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-13	10YR7/2 light gray silt		
			3	13-43	2.5Y5/6 light olive brown sand 10%gravel		
			4	43-53	10YR6/6 brownish yellow coarse sand		
23	8		1	0-4	10YR3/2 dark grayish brown silty sand		
			2	4-19	10YR6/4 light yellowish brown silty sand		
			3	19-39	10YR5/4 yellowish brown fine silt sand		
23	9		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-20	2.5Y5/6 light olive brown sand		
			3	20-35	10YR6/6 brownish yellow coarse sand		
23	10		1	0-19	10YR7/2 light gray silt sand		
			2	19-36	10YR5/6 yellowish brown silt sand		
23	11		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-20	2.5Y5/6 light olive brown sand		
			3	20-30	10YR6/6 brownish yellow coarse sand		
23	12		1	0-17	10YR7/2 light gray silt sand		
			2	17-29	10YR5/6 yellowish brown silt sand		
23	13		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-24	2.5Y5/6 light olive brown sand		
			3	24-34	10YR6/6 brownish yellow coarse sand		
23	14		1	0-11	10YR3/3 dark brown silty loam and root mat		
			2	11-31	10YR7/2 light gray silt sand		
			3	31-38	10YR5/6 yellowish brown silt sand		
23	15		1	0-15	10YR3/3 dark brown silty loam and root mat		
			2	15-22	2.5Y5/6 light olive brown sand		
			3	22-32	10YR6/6 brownish yellow coarse sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
23	16		1	0-4	10YR3/3 dark brown silty loam and root mat		
			2	4-18	10YR7/2 light gray silt sand		
			3	18-31	10YR5/6 yellowish brown silt sand		
23	17		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-28	2.5Y5/6 light olive brown sand		
			3	28-38	10YR6/6 brownish yellow coarse sand		
23	18		1	0-23	10YR7/2 light gray silt sand		
			2	23-40	10YR5/6 yellowish brown silt sand		
23	19		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-14	2.5Y5/6 light olive brown sand		
			3	14-24	10YR6/6 brownish yellow coarse sand		
24	1		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-12	10YR7/2 light gray silt sand		
			3	12-32	2.5Y5/6 light olive brown sand		
			4	32-40	2.5Y7/2 light gray sand 15% gravel		
24	2		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-21	10YR5/6 yellowish brown silt sand		
			3	21-35	10YR6/6 brownish yellow coarse sand		
24	3		1	0-10	10YR3/2 dark grayish brown silty loam with root mat		
			2	10-32	2.5Y5/6 light olive brown sand		
			3	32-40	2.5Y7/2 light gray sand 15% gravel		
24	4		1	0-4	10YR3/3 dark brown silty loam and root mat		
			2	4-18	10YR5/6 yellowish brown silt sand		
			3	18-29	10YR6/6 brownish yellow coarse sand		
24	5		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-10	10YR7/2 light gray silt		
			3	10-28	10YR5/6 yellowish brown silt sand		
			4	28-41	10YR6/6 brownish yellow coarse sand		
24	6		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-21	10YR5/6 yellowish brown silt sand		
			3	21-38	10YR6/6 brownish yellow coarse sand		
24	7		1	0-5	10YR3/3 dark brown silty loam and root mat		
			2	5-19	10YR5/6 yellowish brown silt sand		
			3	19-33	10YR6/6 brownish yellow coarse sand		
24	8		1	0-3	10YR3/3 dark brown silty loam and root mat		
			2	3-20	10YR5/6 yellowish brown silt sand		
			3	20-35	10YR6/6 brownish yellow coarse sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
24	9		1	0-9	10YR3/2 dark grayish brown silty loam with root mat		
			2	9-34	2.5Y5/6 light olive brown sand	1 reddened/ modified rhyolite pebble, 1 basalt flake	77.8 ME
			3	34-44	2.5Y7/2 light gray sand 15% gravel		
24	9	North	1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-17	10YR7/2 light gray silt		
			3	17-38	10YR5/6 yellowish brown silt sand	2 FCR 1 rhyolite, 1 basalt	77.8 ME
			4	38-48	10YR6/6 brownish yellow coarse sand		
24	9	East	1	0-12	10YR3/3 dark brown silty loam		
			2	12-31	10YR6/6 brownish yellow coarse sand		
			3	31-40	10YR5/6 yellowish brown silt sand		
24	9	South	1	0-7	10YR3/1 very dark gray silty loam		
			2	7-13	10YR6/1gray silty loam (albic)		
			3	13-21	10YR6/3 pale brown silty loam loess		
			4	21-30	10YR5/8 yellowish brown fine sandy silt 30% gravel		
			5	30-39	10YR6/6 brownish yellow silty sand 60% gravel		
24	9	West	1	0-7	10YR3/1 very dark gray silty loam		
			2	7-13	10YR6/1gray silty loam (albic)		
			3	13-21	10YR6/3 pale brown silty loam loess		
			4	21-30	10YR5/8 yellowish brown fine sandy silt 30% gravel		
			5	30-39	10YR6/6 brownish yellow silty sand 60% gravel		
24	10		1	0-4	10YR3/3 dark brown silty loam and root mat		
			2	4-11	10YR5/6 yellowish brown silt sand		
			3	11-36	10YR6/6 brownish yellow coarse sand		
24	11		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-29	2.5Y5/6 light olive brown silt		
			3	29-40	2.5Y6/6 olive yellow sandy silt 10% gravel		
24	12		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-18	10YR5/6 yellowish brown silt sand		
			3	18-38	10YR6/6 brownish yellow coarse sand		
24	13		1	0-10	10YR3/3 dark brown silty loam and root mat		
			2	10-14	10YR7/2 light gray silt		
			3	14-24	10YR5/6 yellowish brown silt sand		
			4	24-38	10YR6/6 brownish yellow coarse sand		
24	14		1	0-8	10YR3/3 dark brown silty loam and root mat		
			2	8-11	10YR5/6 yellowish brown silt sand		
			3	11-38	10YR6/6 brownish yellow coarse sand		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
25	1		1	0-4	10YR3/3 dark brown silty loam and root mat		
			2	4-24	2.5Y5/6 light olive brown silty sand		
			3	24-38	10YR6/6 brownish yellow coarse sand		
25	2		1	0-9	10YR3/2 very dark brown silty loam		
			2	9-11	10YR5/2 grayish brown sand		
			3	11-24	10YR5/3 brown sand		
			4	24-38	10YR5/6 yellowish brown sand		
			5	38-46	10YR5/8 yellowish brown sand and gravel		
25	3		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-10	10YR7/2 light gray silt		
			3	10-26	2.5Y5/6 light olive brown silty sand		
			4	26-36	10YR6/6 brownish yellow coarse sand		
25	4		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-21	2.5Y5/6 light olive brown silty sand		
			3	21-34	10YR6/6 brownish yellow coarse sand		
25	5		1	0-6	10YR3/3 dark brown silty loam and root mat		
			2	6-11	10YR7/2 light gray silt		
			3	11-31	10YR6/6 brownish yellow coarse sand		
			4	31-41	10YR5/8 yellowish brown sand and gravel		
25	6		1	0-13	10YR3/2 dark grayish brown silty loam		
			2	13-33	10YR7/2 light gray silt		
			3	33-53	10YR5/6 yellowish brown sand		
			4	53-63	10YR6/8 brownish yellow sand 20% gravel		
25	7		1	0-8	10YR3/2 very dark grayish brown silty loam		
			2	8-11	10YR5/3 brown sand		
			3	11-22	10YR7/1 light gray sand		
			4	22-40	10YR5/6 yellowish brown sand		
25	8		1	0-10	10YR3/2 dark grayish brown silty loam and root mat		
			2	10-12	10YR7/2 light gray silt		
			3	12-32	2.556/6 light olive brown silt		
			4	32-42	2.5Y7/6 yellow sand 20% gravel		
25	9		1	0-4	10YR3/3 dark brown silty loam		
			2	4-10	10YR8/2very pale brown silty sand		
			3	10-23	2.5Y5/6 light olive brown silty sand		
			4	23-33	10YR5/8 yellowish brown coarse sand		
25	10		1	0-7	10YR3/3 dark brown silty loam and root mat		
			2	7-15	10YR7/2 light gray silt		
25	10		3	15-33	10YR6/6 brownish yellow coarse sand		
			4	33-43	10YR5/8 yellowish brown sand and gravel		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
26	1		1	0-6	10YR3/2 dark grayish brown silty loam		
			2	6-8	10YR5/2 gray sand		
			3	8-20	10YR5/3 brown sand		
			4	20-39	10YR5/6 yellowish brown sand		
			5	39-45	10YR5/8 yellowish brown sand and gravel		
27	2		1	0-9	10YR3/2 dark grayish brown silty loam		
			2	9-26	10YR6/6 brownish yellow sand		
			3	26-51	10YR5/6 yellowish brown sand		
			4	51-56	10YR6/8 brownish yellow sand and gravel		
27	1		1	0-7	10YR3/2 dark grayish brown silty loam		
			2	7-15	7.5YR5/8 strong brown silty sand		
			3	15-65	10YR6/8 brownish yellow sand 20% gravel		
27	2		1	0-10	10YR3/2 dark grayish brown silty loam		
			2	10-30	7.5YR5/8 strong brown silty sand		
			3	30-40	10YR6/8 brownish yellow sand 20% gravel		
28	1		1	0-3	10YR3/2 dark grayish brown silty loam		
			2	3-5	10YR5/2 gray sand		
			3	5-30	10YR5/3 brown sand		
			4	30-50	10YR5/6 yellowish brown sand		
			5	50-62	10YR5/8 yellowish brown sand and gravel		
28	2		1	0-6	10YR3/3 dark brown silty loam		
			2	6-21	10YR5/8 yellowish brown silty sand		
			3	21-32	10YR6/6 brownish yellow coarse sand		
29	3		1	0-2	10YR3/3 dark brown silty loam		
			2	2-18	10YR5/8 yellowish brown silty sand		
			3	18-25	10YR6/6 brownish yellow coarse sand		
29	1		1	0-6	10YR3/3 dark brown silty loam		
			2	6-30	10YR5/8 yellowish brown silty sand		
29	1		3	30-40	10YR6/6 brownish yellow coarse sand		
29	2		1	0-9	10YR3/3 dark brown silty loam		
			2	9-21	10YR5/8 yellowish brown silty sand		
			3	21-34	10YR6/6 brownish yellow coarse sand		
29	3		1	0-5	10YR3/2 dark grayish brown silty loam		
			2	5-7	10YR5/2 gray sand	1 rhyolite flake, 1 basalt flake	77.9 ME
			3	7-20	10YR5/6 yellowish brown sand		
			4	20-29	10YR6/6 brownish yellow coarse sand		
			5	29-34	10YR7/1 light gray sand		
			6	34-44	7.5YR5/6 strong brown sand and gravel		

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Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
29	3	North	1	0-11	10YR3/3 dark brown silty loam		
			2	11-24	10YR5/8 yellowish brown silty sand		
			3	24-34	10YR6/6 brownish yellow coarse sand		
29	3	East	1	0-11	10YR3/2 dark grayish brown silty loam		
			2	11-21	10YR6/4 light yellowish brown sand		
			3	21-26	10YR7/1 light gray sand		
			4	26-36	10YR5/6 yellowish brown sand		
			5	36-50	10YR6/8 brownish yellow sand		
29	3	South			STU not excavated , disturbed ditch		
29	3	West	1	0-9	10YR3/3 dark brown silty loam		
			2	9-39	10YR5/8 yellowish brown silty sand		
			3	39-59	10YR6/6 brownish yellow coarse sand		
*					Transects Numbers 30-49 skipped		
50	1		1	0-9	10YR3/2 dark grayish brown silty loam		Northeast
			2	9-11	10YR5/2 gray sand		Corner of sector 2
			3	11-22	10YR5/6 yellowish brown sand		
			4	22-38	10YR6/8 brownish yellow sand		
50	2		1	0-13	10YR3/2 dark grayish brown silty loam		
			2	13-21	10YR5/2 gray sand		
			3	21-37	10YR5/6 yellowish brown sand		
			4	37-48	10YR6/8 brownish yellow sand		
50	3		1	0-4	10YR3/3 dark brown silty loam		
			2	4-17	10YR5/6 yellowish brown sand		
			3	17-34	10YR5/3 brown sand		
50	4		1	0-4	10YR3/3 dark brown silty loam		
			2	4-21	10YR5/6 yellowish brown sand		
			3	21-43	10YR5/3 brown sand		
50	5		1	0-10	10YR3/3 dark brown silty loam		
			2	10-12	10YR7/2 light gray silt		
			3	12-22	10YR6/6 brownish yellow silt sand		
			4	22-32	10YR6/8 brownish yellow sand 20% gravel		
50	6		1	0-7	10YR3/3 dark brown silty loam		
			2	7-11	10YR7/2 light gray silt		
			3	11-28	10YR5/6 yellowish brown sand		
			4	28-39	10YR5/3 brown sand		
50	7		1	0-10	10YR3/3 dark brown silty loam		
			2	10-15	10YR7/2 light gray silt		
			3	15-25	10YR5/6 yellowish brown sand		
			4	25-35	10YR5/3 brown sand		

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Sector 2

Transect	STU	Radial	Level	Depth	Soil Description	Cultural Material	Comments
51	1		1	0-8	10YR3/2 dark grayish brown silty loam		
			2	8-11	10YR5/2 gray sand		
51	1		3	11-22	10YR5/6 yellowish brown sand		
			4	22-38	10YR6/8 brownish yellow sand		
51	2		1	0-9	10YR3/2 dark grayish brown silty loam		
			2	9-12	10YR5/2 gray sand		
			3	12-25	10YR5/3 brown sand		
			4	25-40	10YR5/6 yellowish brown sand		
			5	40-48	10YR5/8 yellowish brown sand and gravel		
51	3		1	0-9	10YR3/2 dark grayish brown silty loam		
			2	9-12	10YR5/2 gray sand		
			3	12-28	10YR5/3 brown sand		
			4	28-40	10YR5/6 yellowish brown sand		
			5	40-51	10YR5/8 yellowish brown sand and gravel		
52	1		1	0-9	10YR3/2 dark grayish brown silty loam		
			2	9-11	10YR5/2 gray sand		
			3	11-30	10YR5/3 brown sand		
			4	30-39	10YR5/6 yellowish brown sand		
			5	39-42	10YR5/8 yellowish brown sand and gravel		
52	2		1	0-9	10YR3/2 dark grayish brown silty loam		
			2	9-20	10YR5/3 brown sand		
			3	20-40	10YR5/6 yellowish brown sand		
			4	40-55	10YR5/8 yellowish brown sand and gravel		
52	3		1	0-7	10YR3/2 dark grayish brown silty loam		
			2	7-12	10YR5/2 gray sand		
			3	12-31	10YR5/3 brown sand		
			4	31-48	10YR5/6 yellowish brown sand		
			5	48-59	10YR5/8 yellowish brown sand and gravel		
52	4		1	0-10	10YR3/2 dark silty loam and root mat		
			2	10-14	10YR7/2 light gray silt		
			3	14-34	10YR6/6 brownish yellow sand		
			4	34-44	2.5Y6/4 light yellowish brown sand		
52	5		1	0-10	10YR3/2 dark silty loam and root mat		
			2	10-28	10YR6/6 brownish yellow sand		
			3	28-38	2.5Y6/4 light yellowish brown sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
1	1	1	0-12	10YR3/2 dark grayish brown fine silt sand		On south side of Sector 3-high sandy knoll
		2	12-41	10YR5/6 yellowish brown silt sand		
		3	41-50	7.5YR4/4 brown silt sand		
1	2	1	0-9	10YR3/3 dark brown fine silt sand		
		2	9-31	10YR6/4 light brown silt sand		
		3	31-42	10YR5/6 yellowish brown silt sand		
1	3	1	0-12	10YR3/3 dark brown fine silt sand		
		2	12-31	10YR6/4 light brown silt sand		
		3	31-42	10YR5/6 yellowish brown silt sand		
1	4	1	0-9	10YR7/2 light gray silt sand		
		2	9-18	10YR5/6 yellowish brown silt sand		
		3	18-24	7.5YR4/6 strong brown silt sand		
2	1	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-13	10YR7/2 light gray silt		
		3	13-40	10YR6/4 light yellowish brown loess 10% gravel		
2	2	1	0-2	10YR3/3 dark brown silt loam with root mat		
		2	2-20	10YR7/2 light gray silt		
		3	20-52	10YR6/4 light yellowish brown loess 10% gravel		
2	3	1	0-3	10YR3/3 dark brown silt loam with root mat		
		2	3-7	10YR7/2 light gray silt		
		3	7-45	10YR6/4 light yellowish brown loess 10% gravel		
		4	45-53	10YR7/4 very pale brown silt clay with gravel, till		
2	4	1	0-7	10YR3/3 dark brown silt loam with root mat		
		2	7-10	10YR7/2 light gray silt		
		3	10-40	10YR6/4 light yellowish brown loess 10% gravel		
		4	40-50	10YR7/4 very pale brown silt clay with gravel, till		
3	1	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-10	10YR5/2 grayish brown sandy loam		
		3	10-45	10YR6/4 light yellowish brown loess		
		4	45-68	10YR5/6 yellowish brown loam and gavel		
3	2	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-11	10YR5/2 grayish brown sandy loam		
		3	11-50	10YR6/4 light yellowish brown loess		
		4	51-65	10YR5/6 yellowish brown loam and gavel		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
3	3	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-12	10YR5/2 grayish brown sandy loam		
		3	12-20	7.5YR4/4 brown sandy silt		
		4	20-49	10YR6/4 light yellowish brown gravel loam		
4	1	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-8	10YR5/2 grayish brown sandy loam		
		3	8-28	7.5YR4/4 brown sandy silt		
		4	28-52	10YR6/4 light yellowish brown gravel loam		
4	2	1	0-9	10YR3/3 dark brown compact coarse sand		
		2	9-25	10YR5/8 yellowish brown compact coarse sand		
		3	25-38	10YR6/6 brownish yellow compact coarse sand		
		4	38-41	7.5YR4/6 strong brown compact coarse sand		
4	3	1	0-6	10YR3/3 dark brown compact coarse sand		
		2	6-38	10YR5/8 yellowish brown compact coarse sand		
		3	38-51	10YR6/6 brownish yellow compact coarse sand		
		4	51-60	7.5YR4/6 strong brown compact coarse sand		
5	1	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-14	10YR7/2 light gray silt		
		3	14-37	10YR6/4 light yellowish brown loess 10% gravel		
		4	37-41	10YR7/2 light gray silt		
		5	41-51	10YR6/4 light yellowish brown loess		
5	2	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-16	10YR7/2 light gray silt		
		3	16-40	10YR6/4 light yellowish brown loess 10% gravel		
6	1	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-6	10YR5/2 grayish brown sandy loam		
		3	6-35	10YR6/4 light yellowish brown loess		
		4	35-59	10YR5/6 yellowish brown loam and gravel		
6	2	1	0-4	10YR3/2 dark grayish brown silty loam		
		2	4-6	10YR5/2 grayish brown sandy loam		
		3	6-30	10YR6/4 light yellowish brown loess		
		4	30-58	10YR5/6 yellowish brown loam and gravel		
7	1	1	0-10	10YR3/3 dark brown silt sand		
		2	10-24	10YR6/6 brownish yellow silt sand		
		3	24-30	10YR5/4 yellowish brown silt sand		
7	2	1	0-10	10YR3/3 dark brown silt sand		
		2	10-28	10YR6/6 brownish yellow silt sand		
		3	28-45	10YR5/4 yellowish brown silt sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
8	1	1	0-2	10YR6/2 light brownish gray sand		
		2	2-6	10YR3/3 dark brown sand		
		3	6-40	10YR5/6 yellowish brown sand		
		4	40-65	2.5Y5/4 light yellowish brown coarse sand		
8	2	1	0-2	10YR6/2 light brownish gray sand		
		2	2-8	10YR3/3 dark brown sand		
		3	8-50	10YR5/6 yellowish brown sand		
		4	28-52	2.5Y5/4 light yellowish brown coarse sand 30% gravel, till		
8	3	1	0-2	10YR6/2 light brownish gray sand		
		2	2-10	10YR3/3 dark brown sand		
		3	10-52	10YR5/6 yellowish brown sand		
		4	52-70	2.5Y5/4 light yellowish brown coarse sand 30% gravel, till		
8	4	1	0-3	10YR6/2 light brownish gray sand		
		2	3-9	10YR3/3 dark brown sand		
		3	9-39	10YR5/6 yellowish brown sand		
		4	39-44	2.5Y5/4 light yellowish brown coarse sand 30% gravel, till		
8	6	1	0-6	10YR3/3 dark brown silt loam with root mat		
		2	6-39	10YR6/8 brownish yellow sand		
		3	39-52	2.5Y6/4 light yellowish brown sand		
8	7	1	0-8	10YR3/3 dark brown silt loam with root mat		
		2	8-42	10YR6/8 brownish yellow sand		
		3	42-60	2.5Y6/4 light yellowish brown sand		
9	1	1	0-5	10YR4/6 dark yellowish brown sandy silt		
		2	5-9	10YR7/2 light gray silt		
		3	9-21	10YR5/8 yellowish brown sandy silt		
		4	21-67	10YR4/1 dark gray coarse sand		
9	2	1	0-11	10YR3/3 dark brown silt loam with root mat		
		2	11-27	10YR5/8 yellowish brown sandy silt		
		3	27-57	2.5Y4/6 light yellowish brown fine sand		
9	3	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-14	10YR5/8 yellowish brown sandy silt		
		3	14-31	10YR5/6 yellowish brown sand		
		4	31-41	2.5Y4/6 light olive brown coarse sand		
9	4	1	0-5	10YR3/3 dark brown silt loam with root mat		
		2	5-30	110YR5/8 yellowish brown sandy silt		
		3	30-40	2.5Y4/6 light olive brown coarse sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
9	5	1	0-6	10YR3/3 dark brown silt loam with root mat		
		2	6-30	10YR5/8 yellowish brown sandy silt		
		3	30-90	10YR5/4 yellowish brown fine silt loess		
9	6	1	0-6	10YR3/3 dark brown silt loam with root mat		
		2	6-46	10YR5/8 yellowish brown sandy silt		
		3	46-56	2.5Y5/4 light yellowish brown fine sand		
9	7	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-36	10YR5/8 yellowish brown sandy silt		
		3	36-56	2.5Y5/4 light yellowish brown fine sand		
9	8	1	0-6	10YR3/3 dark brown silt loam with root mat		
		2	6-34	10YR5/8 yellowish brown sandy silt		
		3	34-56	2.5Y5/4 light yellowish brown fine sand		
9	9	1	0-15	10YR3/3 dark brown silt loam with root mat		
		2	15-36	10YR5/8 yellowish brown sandy silt		
		3	36-56	2.5Y5/4 light yellowish brown fine sand		
9	10	1	0-10	10YR3/3 dark brown silt loam with root mat		
		2	10-16	10YR7/2 light gray silt		
		3	16-29	10YR5/8 yellowish brown sandy silt		
		4	29-40	2.5Y5/4 light yellowish brown fine sand		
9	11	1	0-15	10YR3/3 dark brown silt loam with root mat		
		2	15-40	10YR5/8 yellowish brown sandy silt		
		3	40-50	2.5Y5/4 light yellowish brown compact silty sand		
10	1	1	0-11	10YR4/6 dark yellowish brown silty loam		
		2	11-14	10YR7/2 light gray silt		
		3	14-51	10YR5/8 yellowish brown sandy silt		
		4	51-60	2.5Y6/4light yellowish brown sand		
10	2	1	0-9	10YR4/6 dark yellowish brown silty loam		
		2	9-12	10YR7/2 light gray silt		
		3	12-43	10YR5/8 yellowish brown sandy silt		
		4	43-51	2.5Y6/4 light yellowish brown sand		
10	3	1	0-7	10YR4/6 dark yellowish brown silty loam		
		2	7-13	10YR7/2 light gray silt		
		3	13-45	10YR5/8 yellowish brown sandy silt		
		4	45-61	2.5Y6/4light yellowish brown sand		
10	4	1	0-5	10YR4/6 dark yellowish brown silty loam		
		2	5-11	10YR7/2 light gray silt		
		3	11-49	10YR5/8 yellowish brown sandy silt		
		4	49-54	2.5Y6/4light yellowish brown sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
10	5	1	0-6	10YR4/6 dark yellowish brown silty loam		
		2	6-11	10YR7/2 light gray silt		
		3	11-41	10YR5/8 yellowish brown sandy silt		
		4	41-55	2.5Y6/4light yellowish brown sand		
10	6	1	0-7	10YR3/3 dark brown silty loam		
		2	7-14	10YR5/8 yellowish brown sandy silt		
		3	14-48	10YR6/6 brownish yellow sand		
10	7	1	0-8	10YR3/3 dark brown silty loam		
		2	8-21	10YR5/8 yellowish brown sandy silt		
		3	21-38	10YR6/6 brownish yellow sand		
		4	38-45	10YR6/4 light yellowish brown sand		
10	8	1	0-7	10YR3/3 dark brown silty loam		
		2	7-14	10YR5/8 yellowish brown sandy silt		
		3	14-51	10YR6/6 brownish yellow sand		
		4	51-60	2.5Y5/4 light olive brown sand		
10	9	1	0-6	10YR3/3 dark brown silty loam		
		2	6-18	10YR5/8 yellowish brown sandy silt		
		3	18-36	10YR6/6 brownish yellow sand		
		4	36-42	2.5Y5/4 light olive brown sand		
10	10	1	0-6	10YR3/3 dark brown silty loam		
		2	6-13	10YR5/8 yellowish brown sandy silt		
		3	13-34	10YR6/6 brownish yellow sand		
		4	34-42	2.5Y5/4 light olive brown sand		
10	11	1	0-6	10YR3/3 dark brown silty loam		
		2	6-12	10YR5/8 yellowish brown sandy silt		
		3	12-31	10YR6/6 brownish yellow sand		
		4	31-38	2.5Y5/4 light olive brown sand		
11	1	1	0-9	10YR3/3 dark brown silty loam		
		2	9-49	10YR6/4 brownish yellow sand		
		3	49-65	2.5Y6/4 light yellowish brown sand		
11	2	1	0-7	10YR3/3 dark brown silty loam		
		2	7-50	10YR6/4 brownish yellow sand		
		3	50-70	2.5Y6/4 light yellowish brown sand		
11	3	1	0-9	10YR3/3 dark brown silty loam		
		2	9-50	10YR6/4 brownish yellow sand		
		3	50-71	2.5Y6/4 light yellowish brown sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
11	4	1	0-2	10YR3/2 dark grayish brown sand		
		2	2-3	10YR5/2 grayish brown sandy clay loam		
		3	3-11	2.5Y5/6 light olive brown sand		
		4	11-15	10YR7/1 light gray sand		
		5	15-55	10YR5/6 yellowish brown sand		
		6	55-70	10YR6/3 pale brown sand		
		7	70-81	2.5Y5/4 light olive brown sand with gravel		
11	5	1	0-3	10YR3/2 dark grayish brown sand		
		2	3-6	10YR5/2 grayish brown sandy clay loam		
		3	6-14	2.5Y5/6 light olive brown sand		
		4	14-17	10YR7/1 light gray sand		
		5	17-60	10YR5/6 yellowish brown sand		
		6	60-67	10YR6/3 pale brown sand		
		7	67-75	2.5Y5/4 light olive brown sand with gravel		
11	6	1	0-3	10YR3/3 dark brown silty loam		
		2	3-5	10YR5/2 grayish brown sandy clay loam		
		3	5-12	2.5Y5/6 light olive brown sand		
		4	12-18	10YR7/1 light gray sand		
		5	18-58	10YR5/6 yellowish brown sand		
		6	58-68	10YR6/3 pale brown sand		
		7	68-79	2.5Y5/4 light olive brown sand with gravel		
11	7	1	0-3	10YR3/3 dark brown silty loam		
		2	3-5	10YR5/2 grayish brown sandy clay loam		
		3	5-11	2.5Y5/6 light olive brown sand		
		4	11-19	10YR7/1 light gray sand		
		5	19-59	10YR5/6 yellowish brown sand		
		6	59-65	10YR6/3 pale brown sand		
		7	65-72	2.5Y5/4 light olive brown sand with gravel		
11	8	1	0-2	10YR3/3 dark brown silty loam		
		2	2-5	10YR5/2 grayish brown sandy clay loam		
		3	5-13	2.5Y5/6 light olive brown sand		
		4	13-49	10YR5/6 yellowish brown sand		
		5	49-60	10YR6/3 pale brown sand		
		6	60-79	2.5Y5/4 light olive brown sand with gravel		
11	9	1	0-7	10YR3/3 dark brown silty loam		
		2	7-21	10YR5/8 yellowish brown sandy silt		
		3	21-32	10YR6/6 brownish yellow sand		
		4	32-45	2.5Y5/4 light olive brown sand		

Columbia Falls, Maine OTHB-E Radar Station
Sector 3

Transect	STU	Level	Depth	Soil Description	Cultural Material	Comments
11	10	1	0-3	10YR3/3 dark brown silty loam		
		2	3-5	10YR5/2 grayish brown sandy clay loam		
		3	5-17	2.5Y5/6 light olive brown sand		
		4	17-59	10YR5/6 yellowish brown sand		
		5	59-69	10YR6/3 pale brown sand		
		6	69-75	2.5Y5/4 light olive brown sand with gravel		
11	11	1	0-7	10YR3/3 dark brown silty loam		
		2	7-21	10YR5/8 yellowish brown sandy silt		
		3	21-38	10YR6/6 brownish yellow sand		
		4	38-45	2.5Y5/4 light olive brown sand		
12	1	1	0-6	10YR3/3 dark brown silty loam		
		2	6-11	10YR5/8 yellowish brown sandy silt		
		3	11-34	10YR6/6 brownish yellow sand		
		4	34-49	2.5Y5/4 light olive brown sand		
12	2	1	0-22	10YR5/2 grayish brown silty sandy		
		2	22-56	10YR6/8 brownish yellow sandy silt		
		3	56-66	2.5Y5/4 light olive brown coarse sand		
12	3	1	0-14	10YR3/3 dark brown silty loam with root mat		
		2	13-18	10YR3/2 dark grayish brown silt 10YR7/2 mottling		
		3	18-44	10YR6/8 brownish yellow sandy silt		
		4	44-60	2.5Y5/5 light olive brown coarse sand		
12	4	1	0-5	10YR3/3 dark brown silty loam with root mat		
		2	5-10	10YR3/2 dark grayish brown silt		
		3	10-15	10YR6/8 brownish yellow sandy silt		
		4	15-38	2.5Y5/4 light olive brown coarse sand		
12	5	1	0-10	10YR3/3 dark brown silty loam with root mat		
		2	10-16	10YR3/2 dark grayish brown silt		
		3	16-33	10YR6/8 brownish yellow sandy silt		
		4	33-34	2.5Y5/4 light olive brown coarse sand		
12	6	1	0-14	10YR3/6 dark yellowish brown gravel fill		
		2	14-19	10YR3/3 dark brown silty loam with root mat		
		3	19-28	10YR5/8 yellowish brown sandy silt		
		4	28-36	10YR6/6 brownish yellow sand		
12	7	1	0-10	10YR3/3 dark brown silty loam with root mat		
		2	10-14	10YR3/2 dark grayish brown silt 10YR7/2 mottling		
		3	14-34	10YR6/8 brownish yellow sandy silt		
		4	34-44	2.5Y5/5 light olive brown coarse sand		

APPENDIX II:

AS BUILT MAPS FOR THE COLUMBIA FALLS AND MOSCOW OTHB-E RADAR STATIONS

property boundary

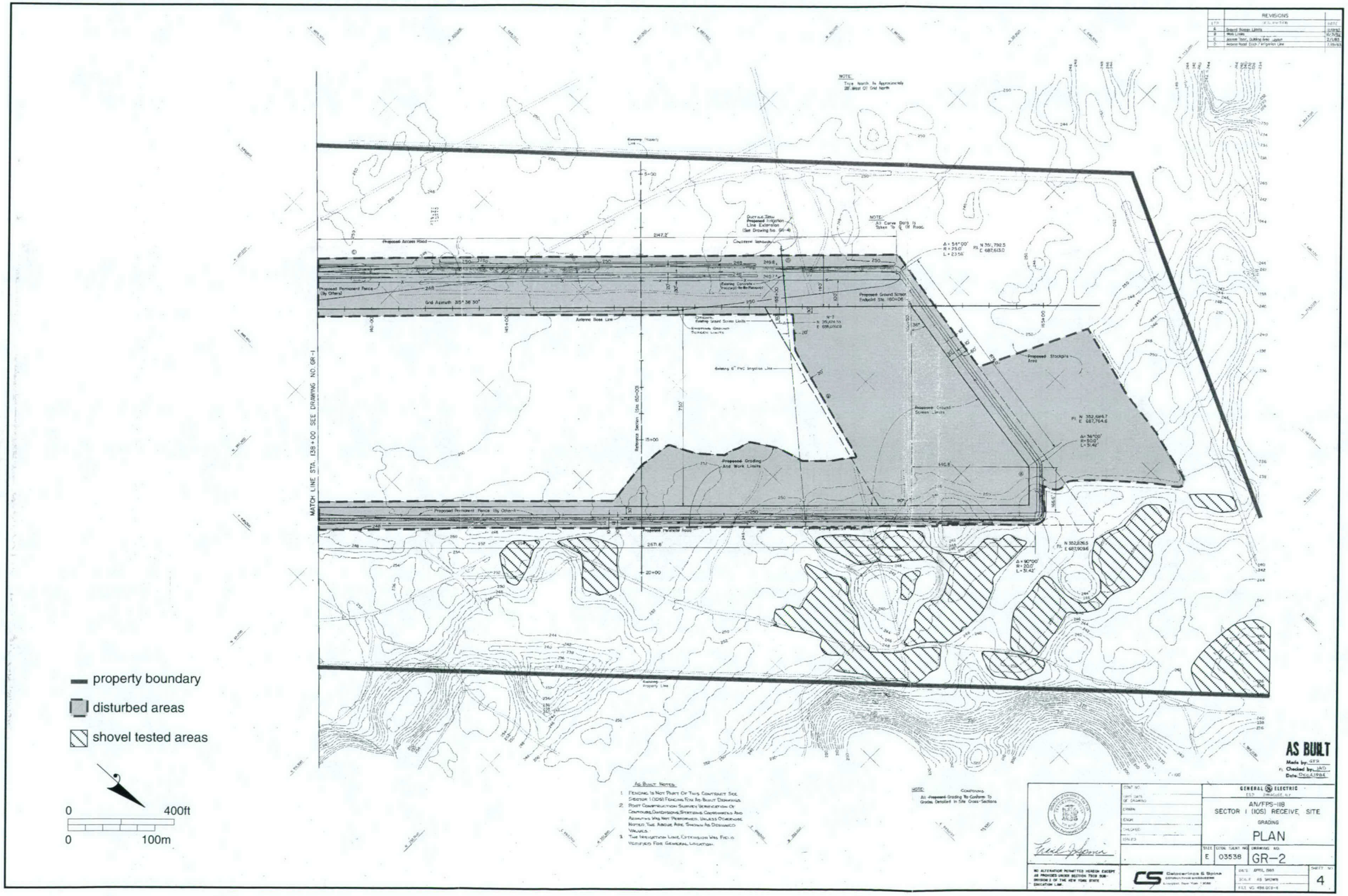
disturbed areas

0 400ft

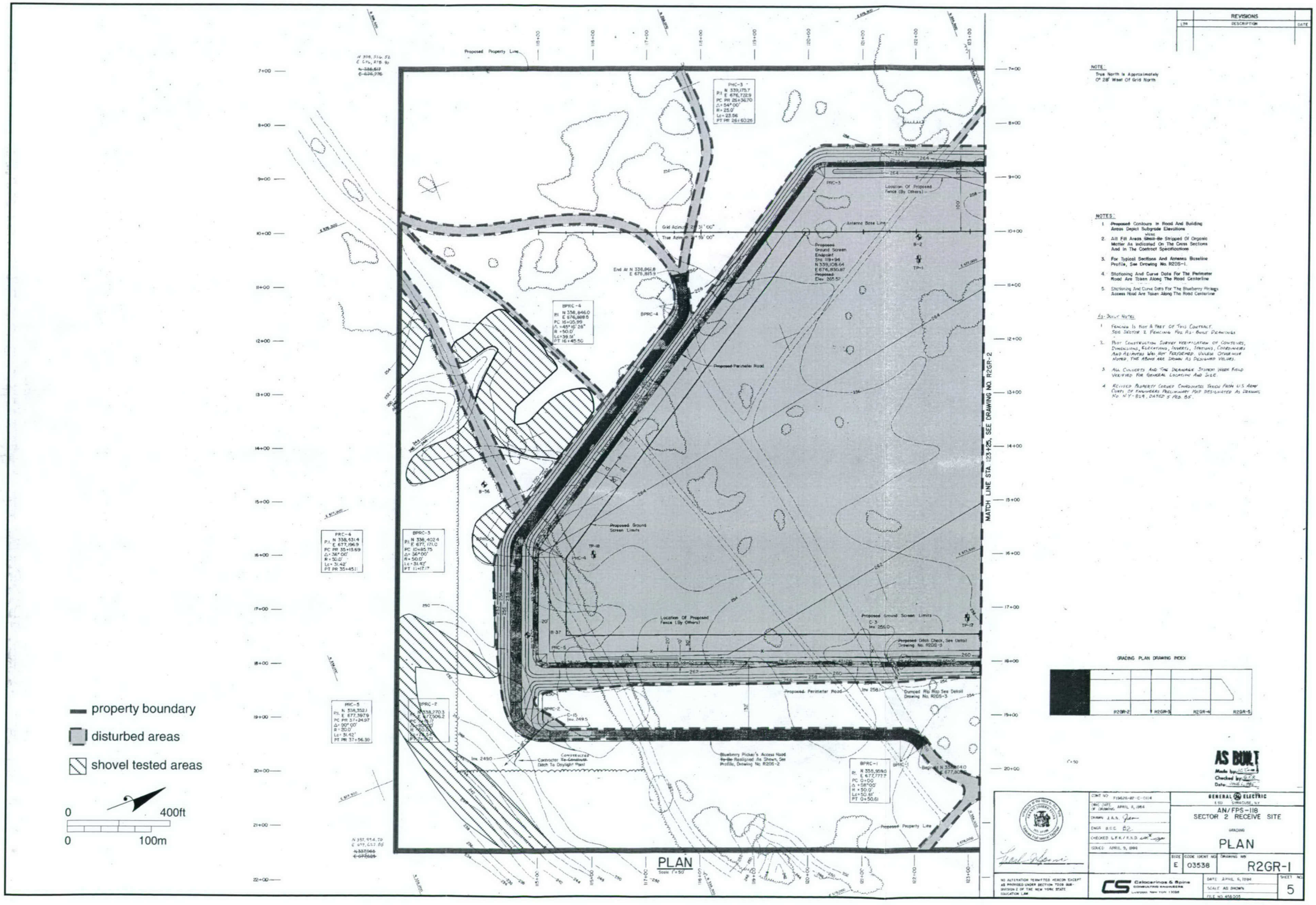
0 100m

AS BUILT

Appendix II. Columbia Falls Station, Sector 1, Sheet 1



Appendix II. Columbia Falls Station, Sector 1, Sheet 2.



REVISIONS

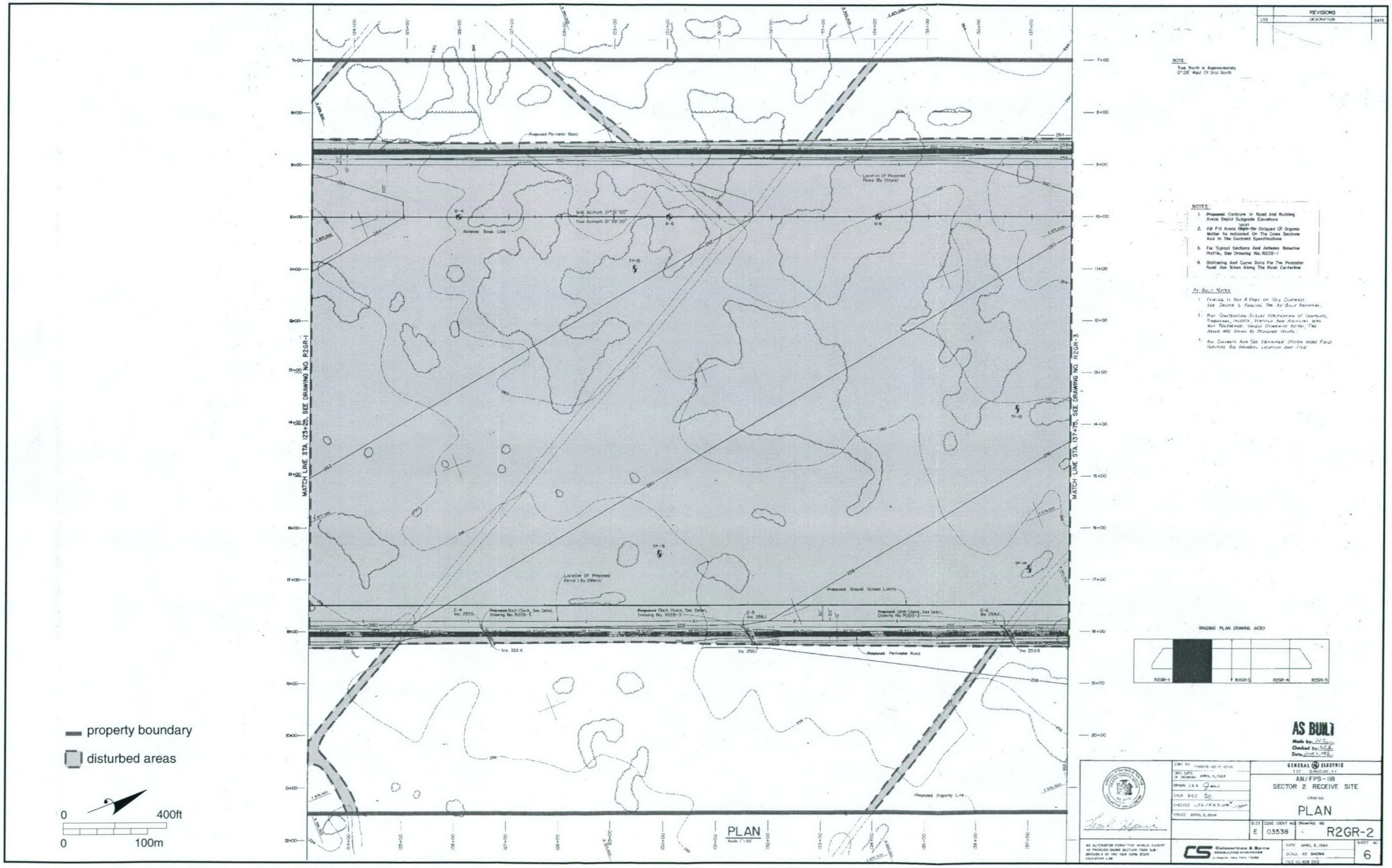
LTR	DESCRIPTION	DATE

NOTE:
True North Is Approximately Of 28' West Of Grid North

NOTES:
1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications
3. For Typical Sections And Antenna Baseline Profile, See Drawing No. R2DS-1.
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline
5. Stationing And Curve Data For The Blueberry Pickers Access Road Are Taken Along The Road Centerline

AS-BUILT NOTES:
1. Fencing Is Not A Part Of This Contract. See Sector 2 Fencing For As-Built Drawings
2. Post Construction Survey Verification Of Contours, Dimensions, Elevations, Inverts, Stations, Chord-Angles And Azimuths Was Not Performed. Unless Otherwise Noted, The Above Are Shown As Designed Values.
3. All Culverts And The Drainage System Were Field Verified For General Location And Size.
4. Revised Property Corner Coordinates Taken From U.S. Army Corps Of Engineers Preliminary Plat Designated As Drawing No. NY-614, Dated 5 Feb. 85.

Appendix II. Columbia Falls Station, Sector 2, Sheet 1.



REVISIONS

LTR	DESCRIPTION	DATE

NOTE:
True North is Approximately 0°18' West Of Grid North

NOTES:
1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications
3. For Typical Sections And Antenna Baseline Profile, See Drawing No. R2GS-1
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline

As-Built Notes
1. Fencing Is Not A Part Of This Contract. See Section 2, Fencing, See As-Built Drawings.
2. Post Construction Survey Verification Of Contours, Dimensions, Inverts, Station And Azimuth Were Not Performed, Unless Otherwise Noted, The Above Are Shown As Designed Values.
3. All Culverts And The Drainage System Were Field Verified For General Location And Type.

AS BUILT
Made by: JJC
Checked by: GEB
Date: June 1, 1984

GENERAL ELECTRIC
ITE SYRACUSE, N.Y.
AN/FPS-118
SECTOR 2 RECEIVE SITE
DRAWING
PLAN

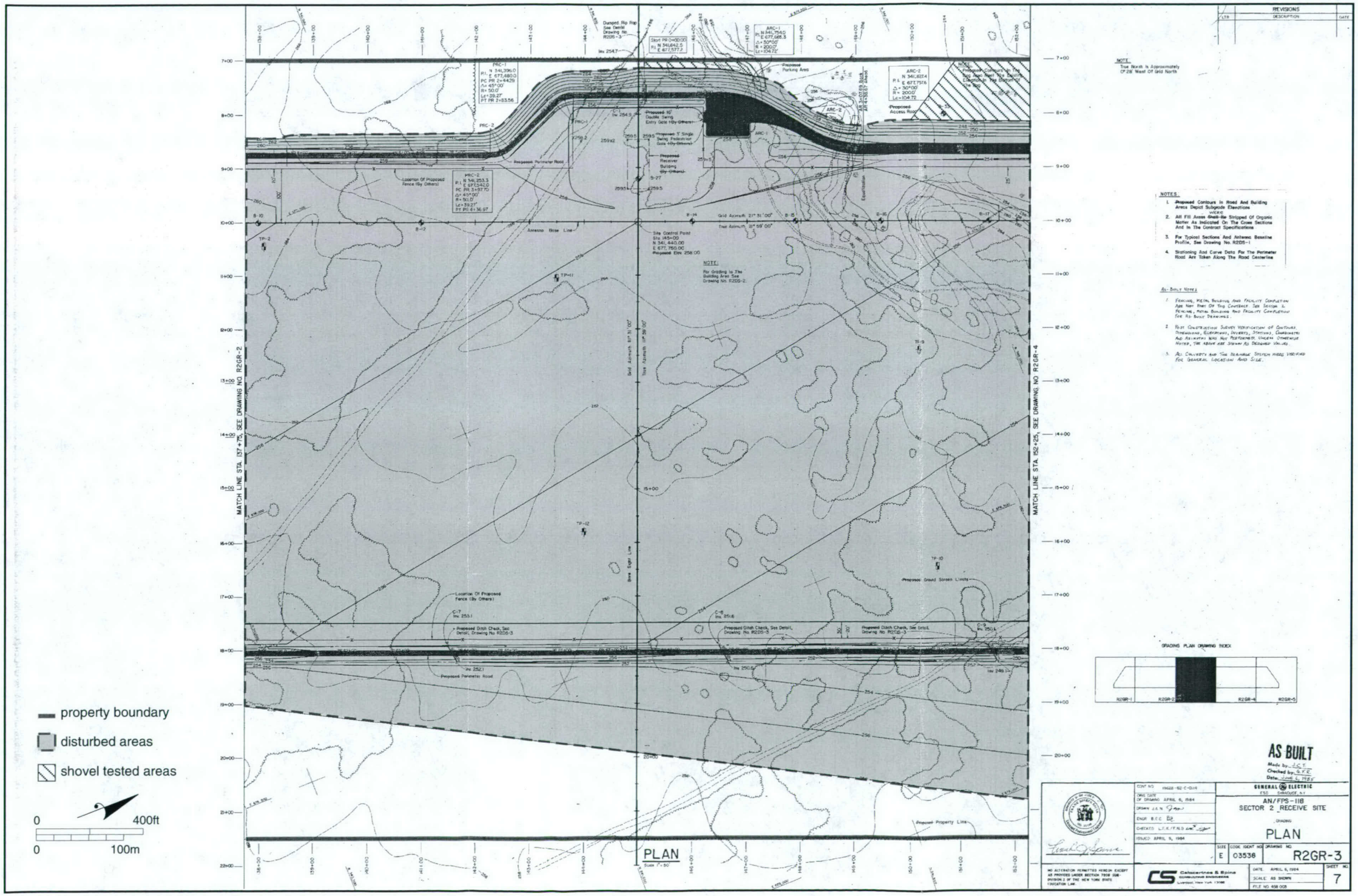
SIZE	CODE IDENT NO.	DRAWING NO.
E	03538	R2GR-2

DWG NO. F19878-60-C-0114
DATE APPROVED APRIL 6, 1984
DRAWN J.S.N.
ENGR. B.E.C.
CHECKED L.F.R./F.N.D.
RELEASED APRIL 9, 1984
DATE APRIL 6, 1984
SCALE AS SHOWN
SHEET NO. 6

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

Ceccarelli & Sons Consulting Engineers, Liverpool, New York 13088

Appendix II. Columbia Falls Station, Sector 2, Sheet 2



REVISIONS

LTR	DESCRIPTION	DATE

NOTE
True North Is Approximately 0° 28' West Of Grid North

NOTES:
1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications
3. For Typical Sections And Antenna Baseline Profile, See Drawing No. R2DS-1
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline

AS-BUILT NOTES:
1. Fencing, Metal Building And Facility Completion Are Not Part Of This Contract. See Section 2, Fencing, Metal Building And Facility Completion For As-Built Drawings.
2. Post Construction Survey Verification Of Contours, Thresholds, Elevations, Inverts, Stations, Coordinates And Azimuths Were Not Performed. Unless Otherwise Noted, The Above Are Shown As Designed Values.
3. All Utility And Site Drainage System Were Verified For General Location And Size.

GRADING PLAN DRAWING INDEX

AS BUILT
Made by: J.G.Y.
Checked by: G.Y.E.
Date: June 15, 1985

CONT NO. F19GE-82-C-0016
ORIG DATE OF DRAWING: APRIL 6, 1984
DRAWN: J.A.N.
ENGR: B.E.C.
CHECKED: L.E.K./F.N.D.
ISSUED: APRIL 6, 1984

GENERAL ELECTRIC
ESD SYRACUSE, N.Y.

AN/FPS-118
SECTOR 2 RECEIVE SITE

DRAWING
PLAN

SIZE E | CODE IDENT NO 03536 | DRAWING NO R2GR-3

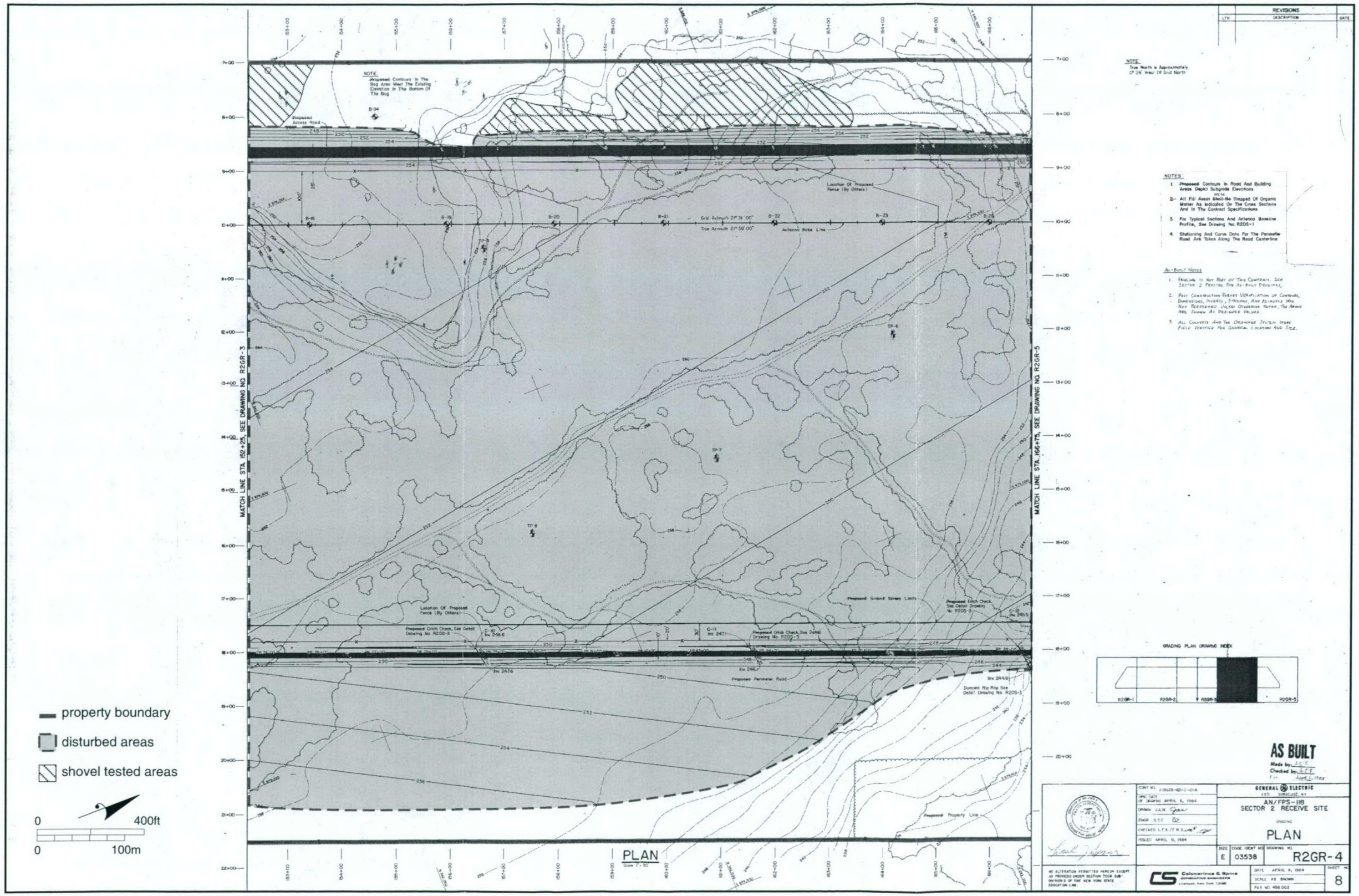
NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Celentano & Spina
CONSULTING ENGINEERS
Liverpool, New York 13088

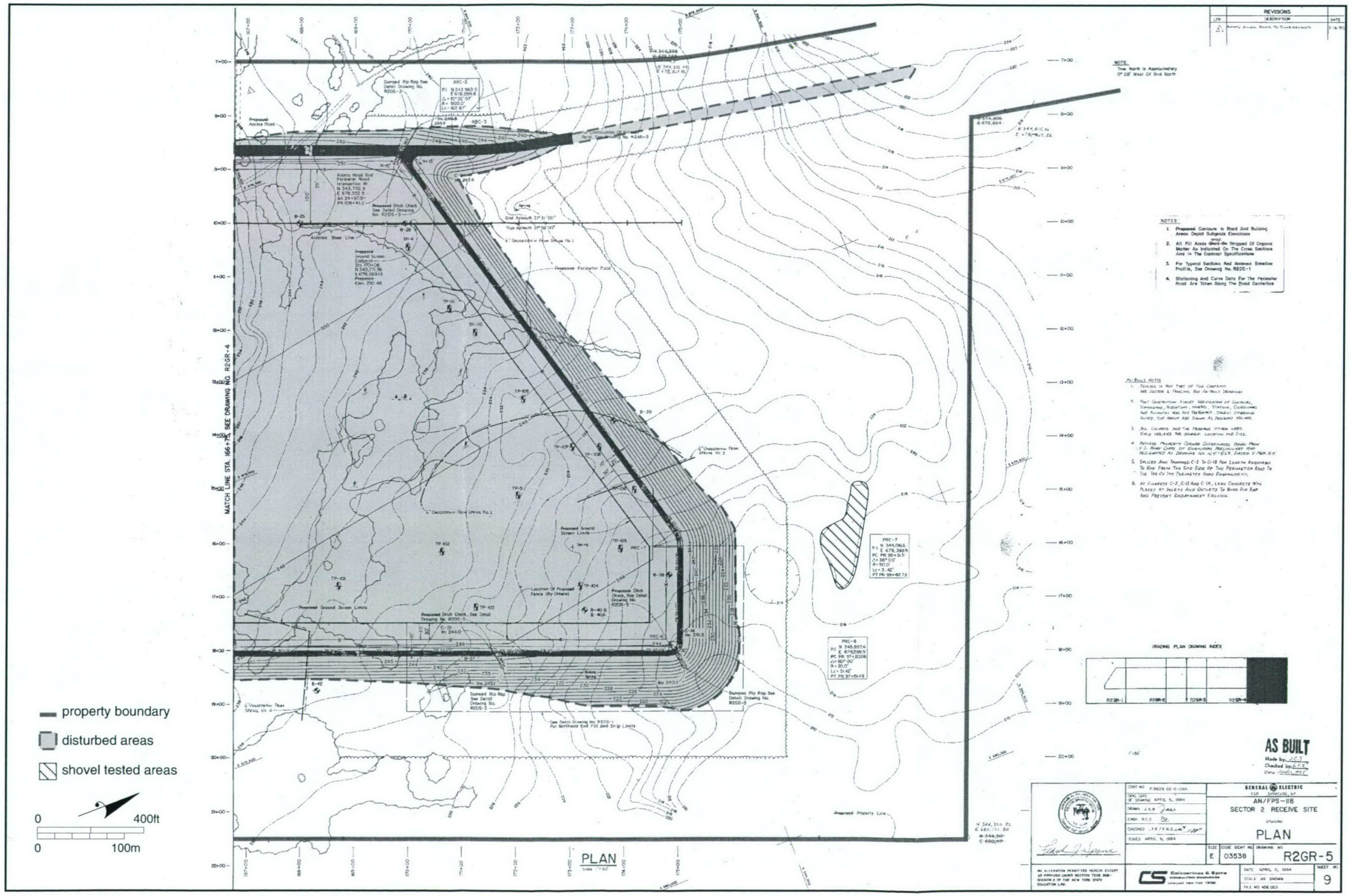
DATE: APRIL 6, 1984
SCALE: AS SHOWN
FILE NO. 458 005

SHEET NO. 7

Appendix II. Columbia Falls Station, Sector 2, Sheet 3.



Appendix II. Columbia Falls Station, Sector 2, Sheet 4.



Appendix II. Columbia Falls Station, Sector 2, Sheet 5.

property boundary

disturbed areas

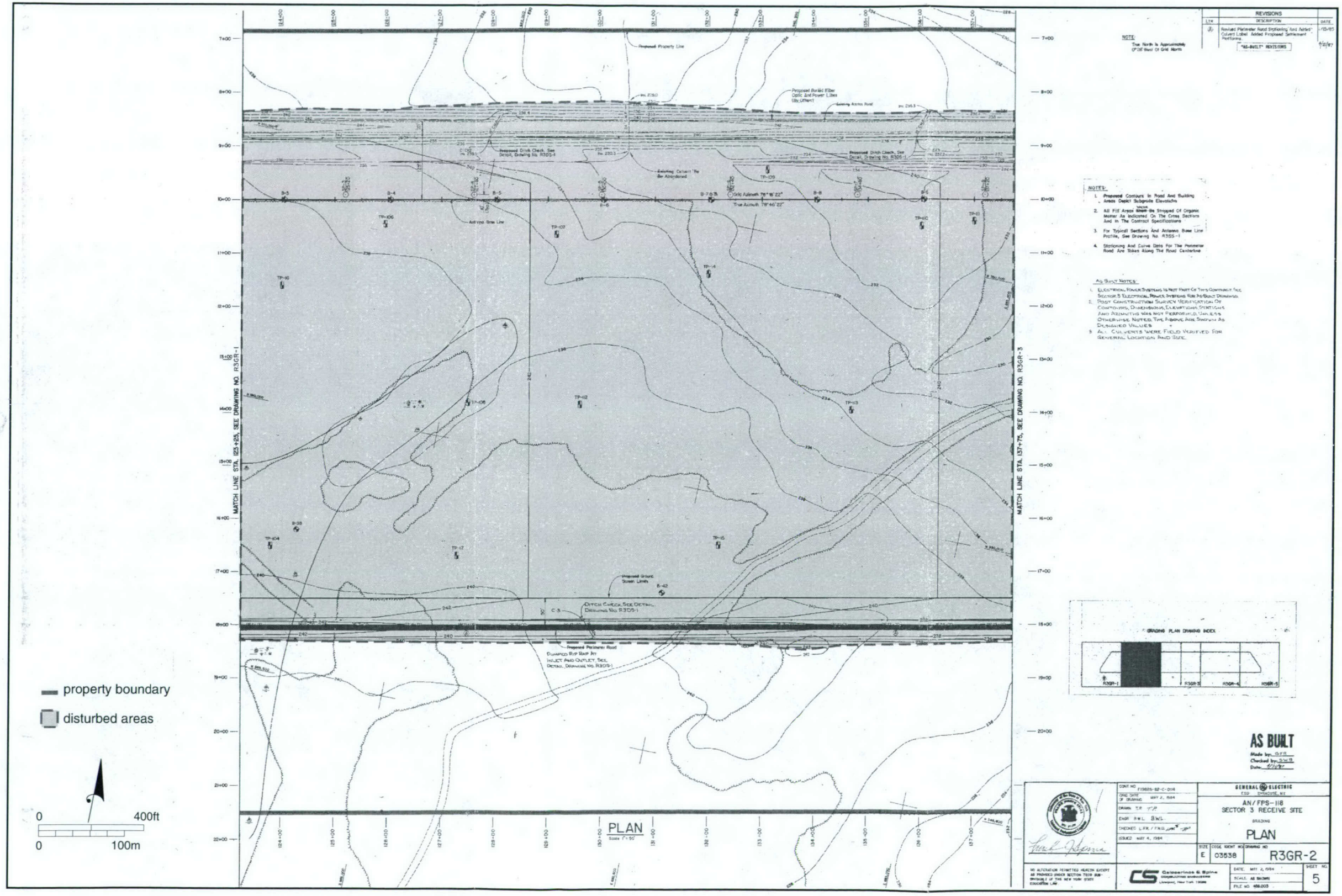
shovel tested areas

0 400ft

0 100m

PLAN

Appendix II. Columbia Falls Station, Sector 3, Sheet 1.



REVISIONS		
LTR	DESCRIPTION	DATE
A	Revised Perimeter Road Stationing And Added Culvert Label. Added Proposed Settlement Monitoring.	10/85
	"AS-BUILT" REVISIONS	4/86/87

NOTE:
True North Is Approximately 0°28' West Of Grid North

NOTES:
1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations.
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications.
3. For Typical Sections And Antenna Base Line Profile, See Drawing No. R3SS-1
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline.

As Built Notes:
1. Electrical Facilities Shown Is Not Part Of This Contract. See Sector 3 Electrical Power Systems For As-Built Drawings.
2. Post Construction Survey Verification Of Contours, Dimensions, Elevations, Stations And Azimuths Was Not Performed, Unless Otherwise Noted. Type, Purpose And Symbols As Designed Values.
3. All Culverts Were Field Verified For General Location And Size.

GRADING PLAN DRAWING INDEX
R3GR-1 R3GR-2 R3GR-3 R3GR-4 R3GR-5

AS BUILT
Made by: [illegible]
Checked by: [illegible]
Date: 4/86/87

GENERAL ELECTRIC
ESD SYRACUSE, NY
AN/FPS-118
SECTOR 3 RECEIVE SITE
GRADING
PLAN
SIZE E | CODE IDENT NO 03538 | DRAWING NO R3GR-2
SHEET NO 5

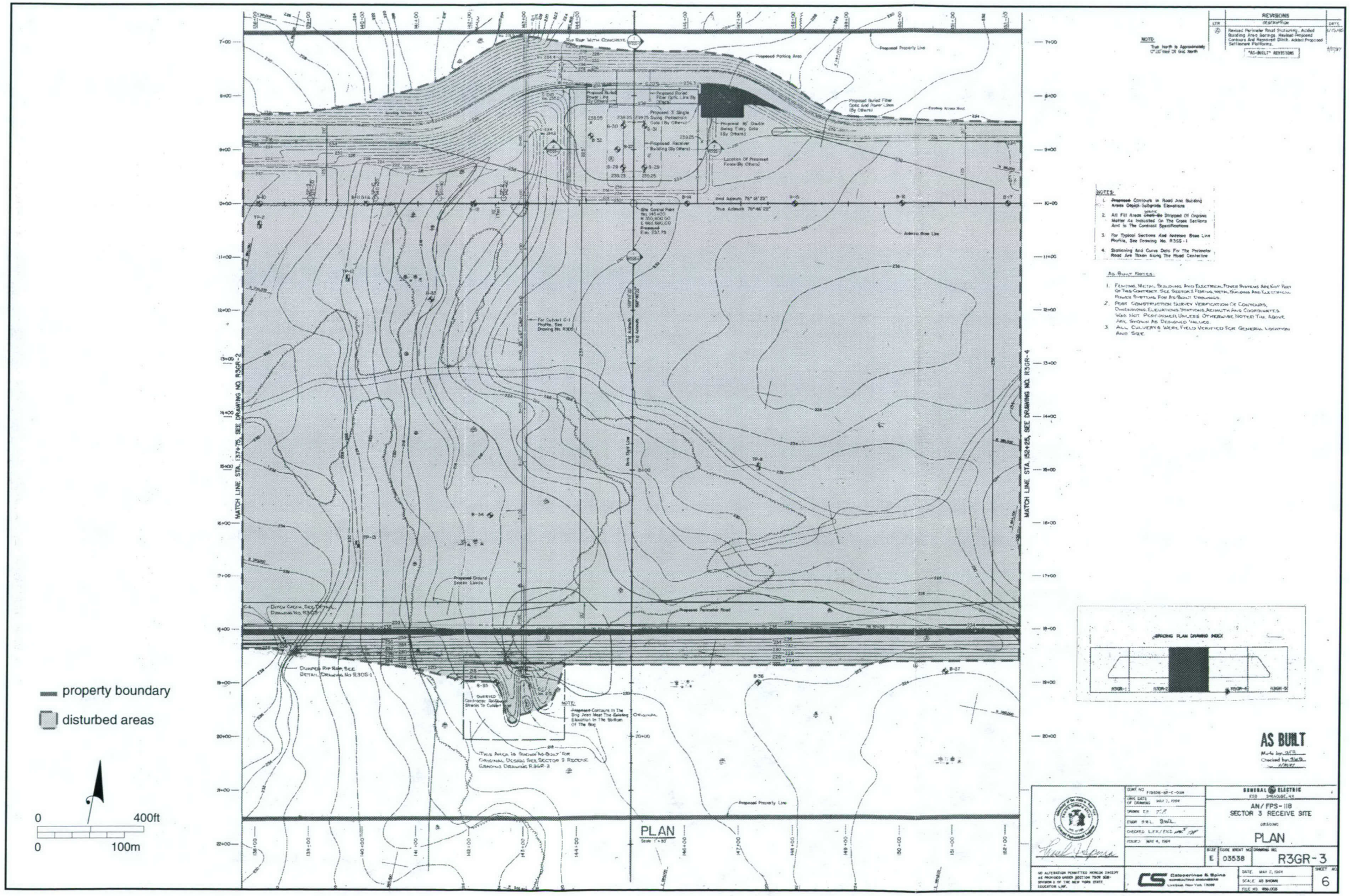
CONT NO F19628-82-C-0018
ORIG DATE OF DRAWING MAY 2, 1984
DRAWN T.F. T.P.
ENGR R.W.L. B.W.S.
CHECKED L.F.R. / F.N.G.
ISSUED MAY 4, 1984

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

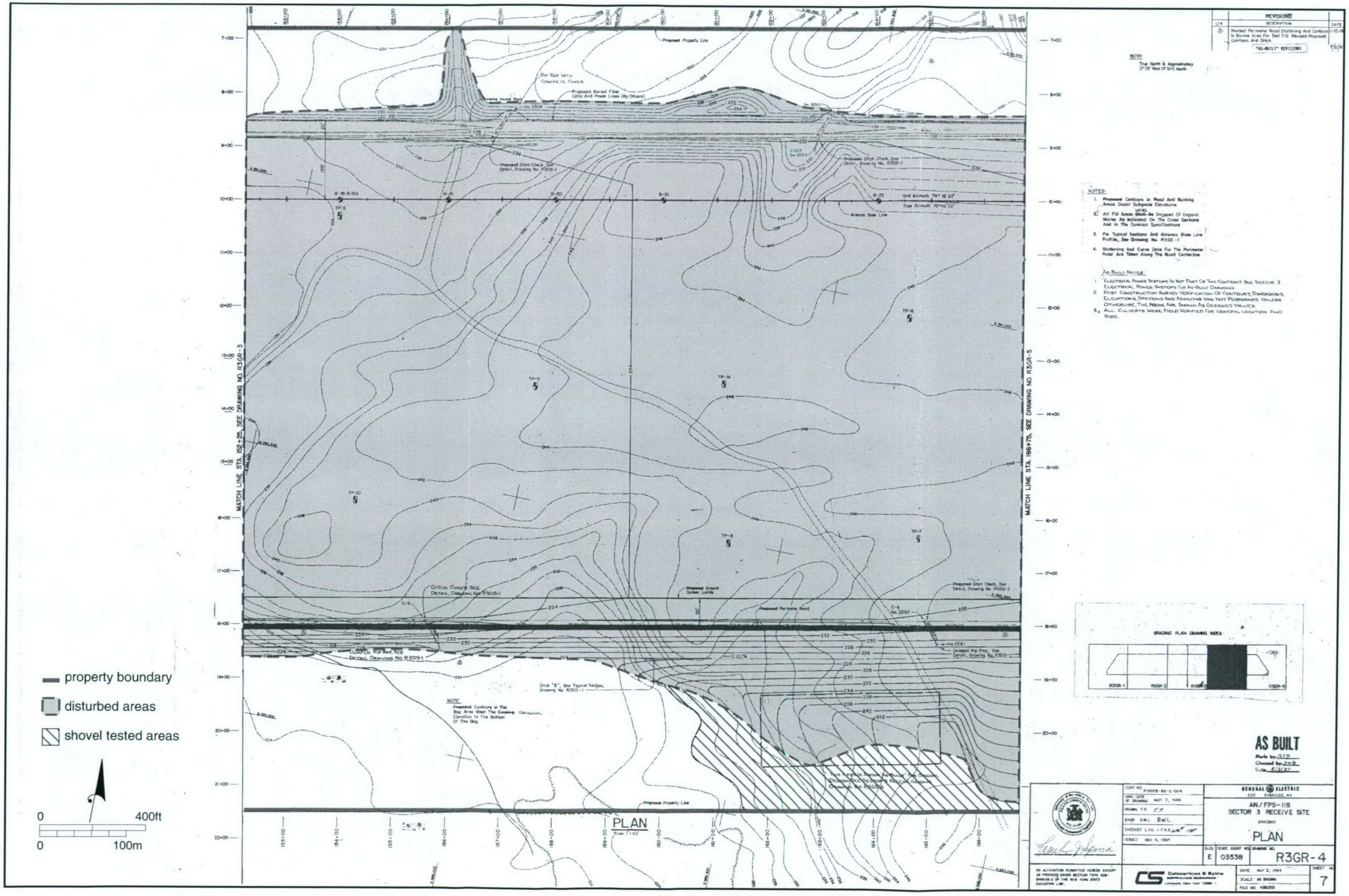
Calocerinos & Spina
CONSULTING ENGINEERS
Liverpool, New York 13088

DATE MAY 4, 1984
SCALE AS SHOWN
FILE NO 156-003

Appendix II. Columbia Falls Station, Sector 3, Sheet 2.



Appendix II. Columbia Falls Station, Sector 3, Sheet 3.



REVISIONS		
LTR	DESCRIPTION	DATE
A	Revised Perimeter Road Stationing And Contours In Borrow Area For Test Fill. Revised Proposed Contours And Ditch.	7/15/86
	"AS-BUILT" REVISIONS	4/5/87

NOTE:
True North Is Approximately 0°28' West Of Grid North

NOTES:
1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications
3. For Typical Sections And Antenna Base Line Profile, See Drawing No. R3SE-1
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline

As-Built Notes:
1. Electrical Power Systems Is Not Part Of This Contract See Section 3 Electrical Power Systems For As-Built Drawings
2. Post Construction Survey Verification Of Contours, Dimensions, Elevations, Structures And Features Was Not Performed. Unless Otherwise Type Above, Are, Shown As Designed Values.
3. All Culverts Were Field Verified For General Location And Size.

AS BUILT
Made by G.F.B.
Checked by J.W.B.
Date 4/16/87

CONT NO	F19GEB-82-C-0014	GENERAL ELECTRIC ESD SYRACUSE, N.Y.
ORIG. DATE OF DRAWING	MAY 2, 1984	AN/FPS-118 SECTOR 3 RECEIVE SITE
DRAWN BY	F.R.	GRADING PLAN
ENGR	B.W.L. B.W.L.	
CHECKED	L.T.H. / F.N.D.	
ISSUED	MAY 4, 1984	SIZE E; CODE IDENT NO 03538; DRAWING NO R3GR-4
		DATE MAY 2, 1984; SCALE AS SHOWN; FILE NO. 438.055; SHEET NO 7

Cyberonics & Spire, Liverpool, New York 13088

WE ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Appendix II. Columbia Falls Station, Sector 3, Sheet 4.

property boundary

disturbed areas

0 400ft

0 100m

PLAN

Scale 1"=50'

MATCH LINE STA. 166+75, SEE DRAWING NO. R3GR-4

NOTE:
True North Is Approximately 0° 28' West Of Grid North

REVISIONS		
LTR	DESCRIPTION	DATE
A	Curve PRC-2 Radius Changed From 20' To 50' And Road Centerline Changed Proposed Contours And Culvert C-7 Revised. Revised Existing Contours In Borrow Area For Test Fill. Added Bore Exploration Along Access Road "AS-BUILT" REVISIONS	7/15/94 4/6/95

NOTES:

1. Proposed Contours In Road And Building Areas Depict Subgrade Elevations Only.
2. All Fill Areas Shall Be Stripped Of Organic Matter As Indicated On The Cross Sections And In The Contract Specifications.
3. For Typical Sections And Antenna Base Line Profile, See Drawing No. R3SS-1.
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Road Centerline.

As-Built Notes:

1. Electrical Power Systems Is Not Part Of This Contract, See Sector 3 Electrical Power Systems For As-Built Drawings.
2. Post Construction Survey Verification Of Contours, Dimensions, Elevations, Stations, Azimuths And Coordinates Was Not Performed. Unless Otherwise Noted, The Above Are Shown As Designed Values.
3. All Culverts Were Field Verified For Gauges, Location And Size.
4. Refined Property Corner Coordinates Taken From U.S. Army Corps. Of Engineers Preliminary Map Designated As Drawing No. N.Y. 1529 Dated 15 Feb. 85

GRADING PLAN DRAWING INDEX

R3GR-1 R3GR-2 R3GR-3 R3GR-4

AS BUILT
Made by: GFR
Checked by: DWB
Date: 4/11/95

CONTRACT NO. F19628-82-C-0004
DRG. DATE OF DRAWING: MAY 2, 1984
DRAWN: T.P. T.P.
ENGR: B.W.L. B.W.L.
CHECKED: L.T.K. / F.N.D. F.N.D.
ISSUED: MAY 4, 1984

GENERAL ELECTRIC
E&C SYRACUSE, NY

AN/FPS-118
SECTOR 3 RECEIVE SITE
GRADING
PLAN

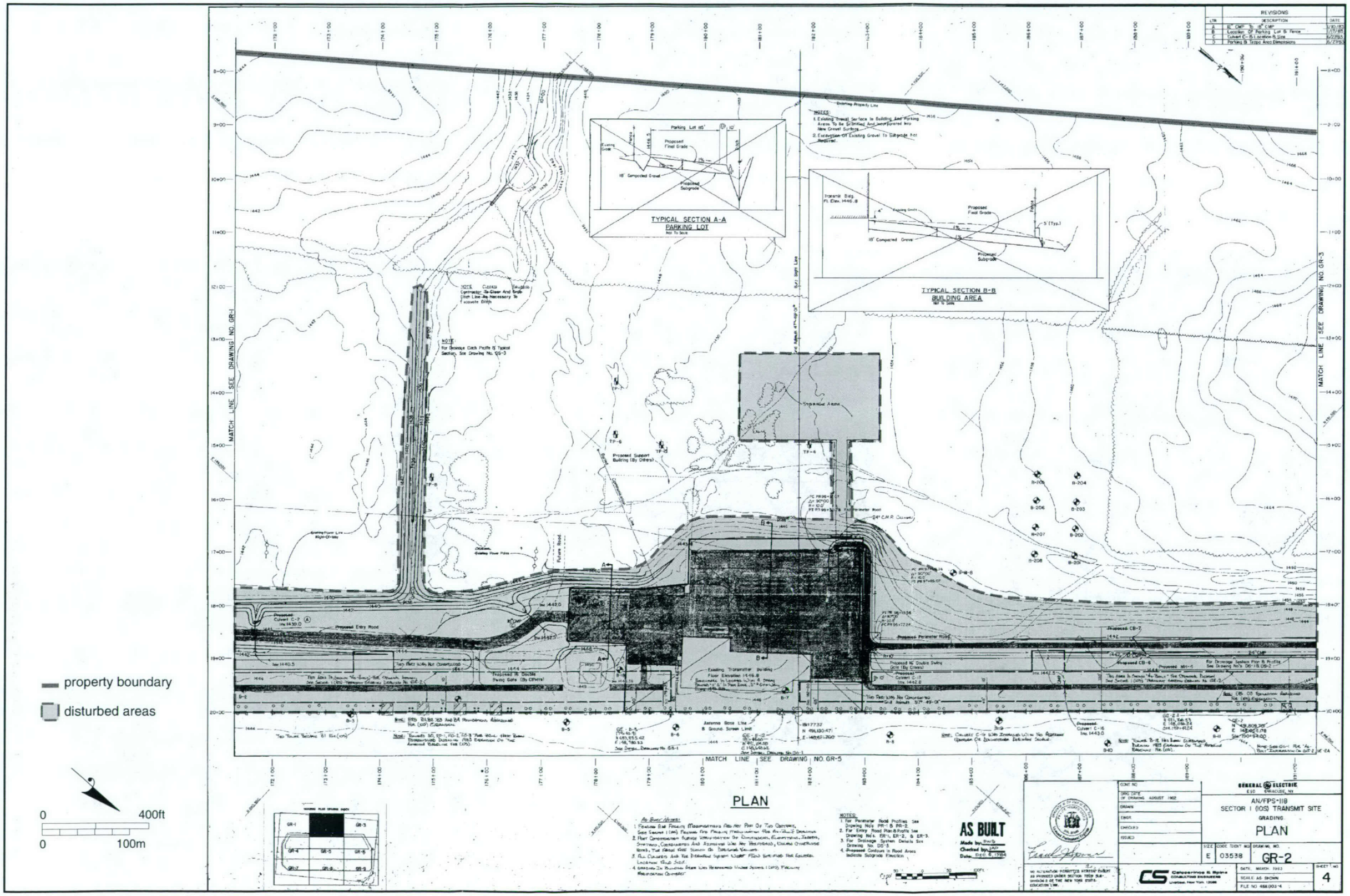
SIZE E | CODE IDENT NO. 03538 | DRAWING NO. R3GR-5 | SHEET NO. 8

DATE: MAY 2, 1994
SCALE: AS SHOWN
FILE NO. 485.008

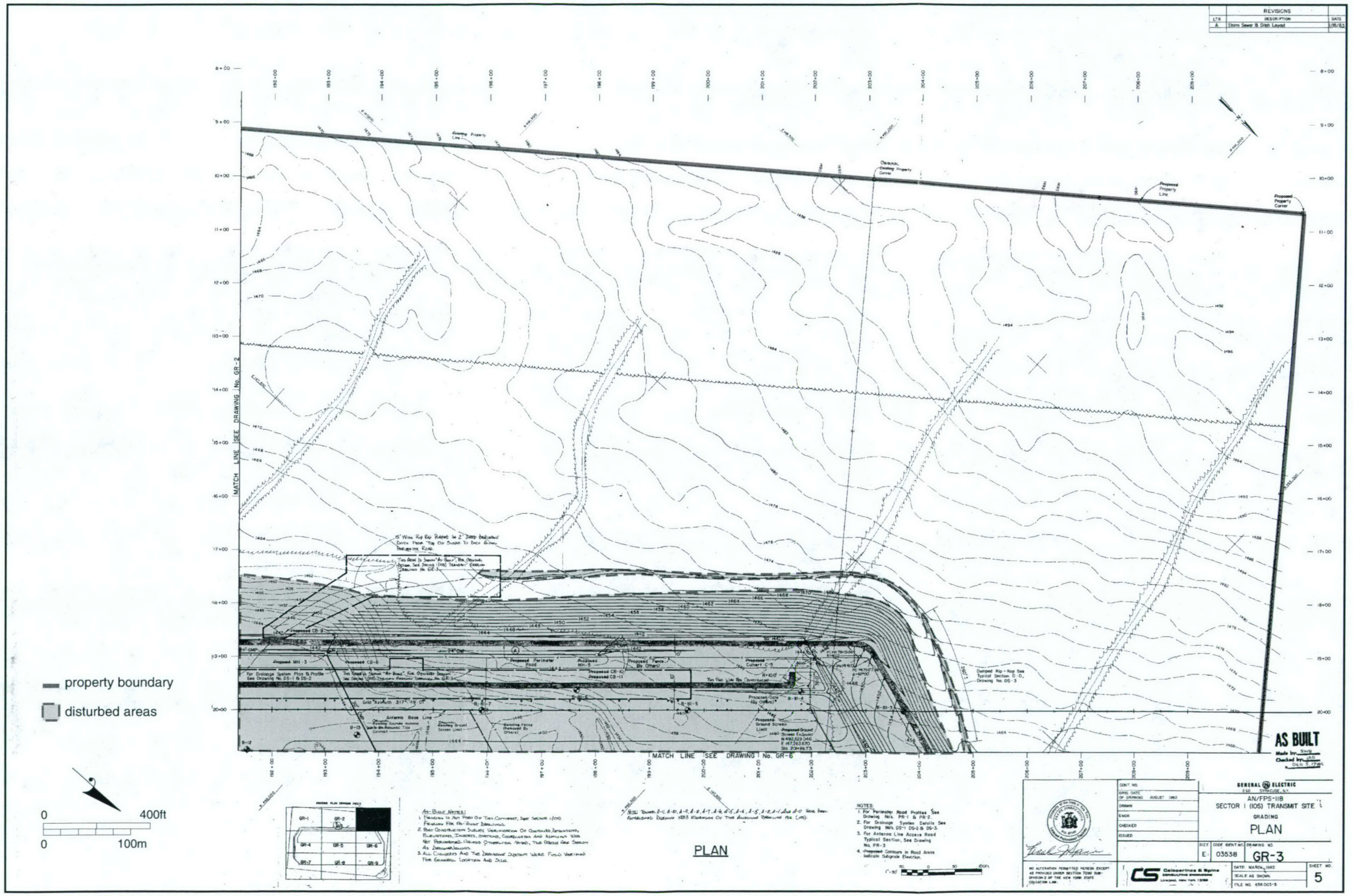
Calcaterra & Spina
CONSULTING ENGINEERS
Liverpool, New York 13088

IN ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

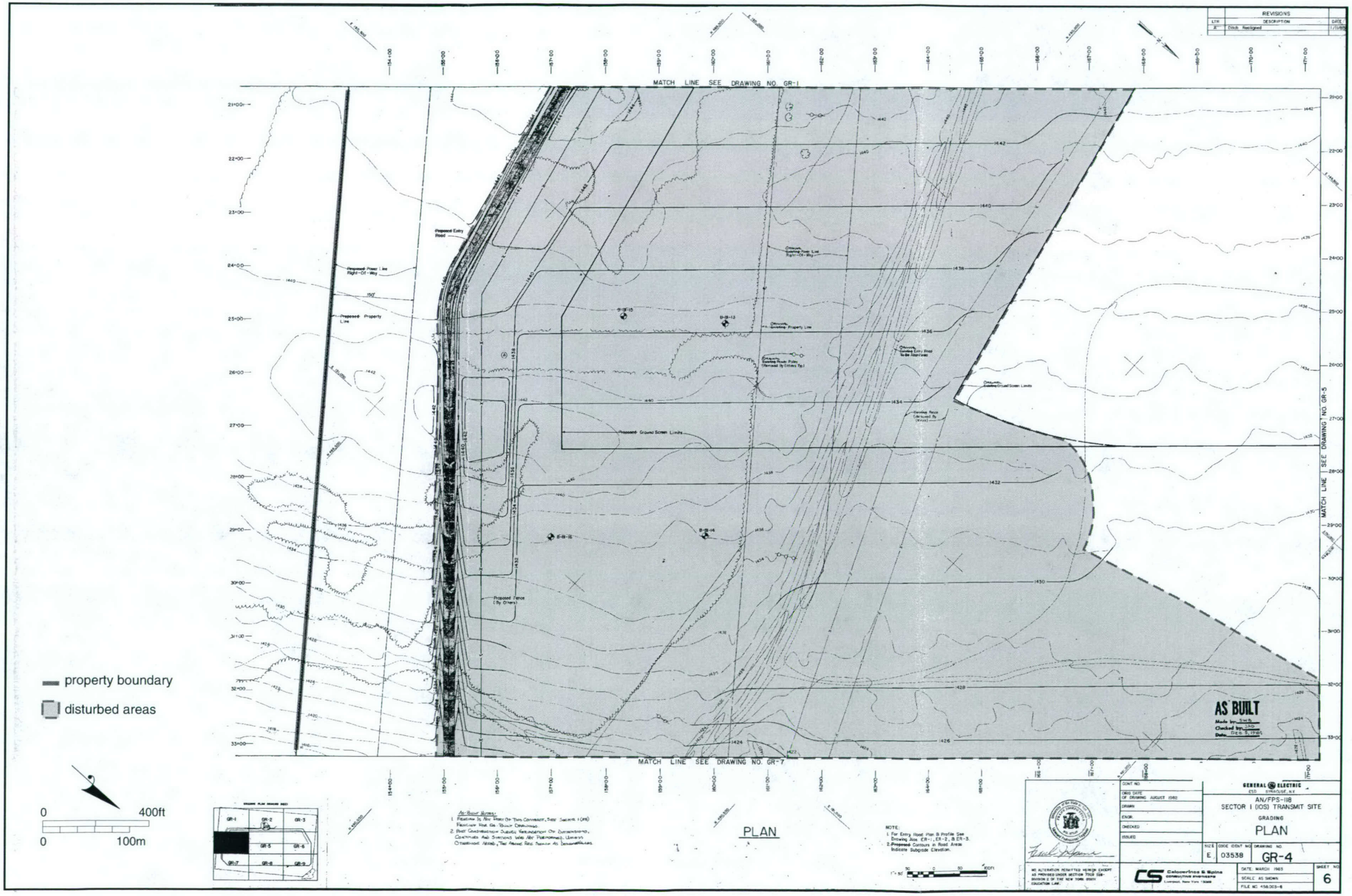
Appendix II. Columbia Falls Station, Sector 3, Sheet 5.



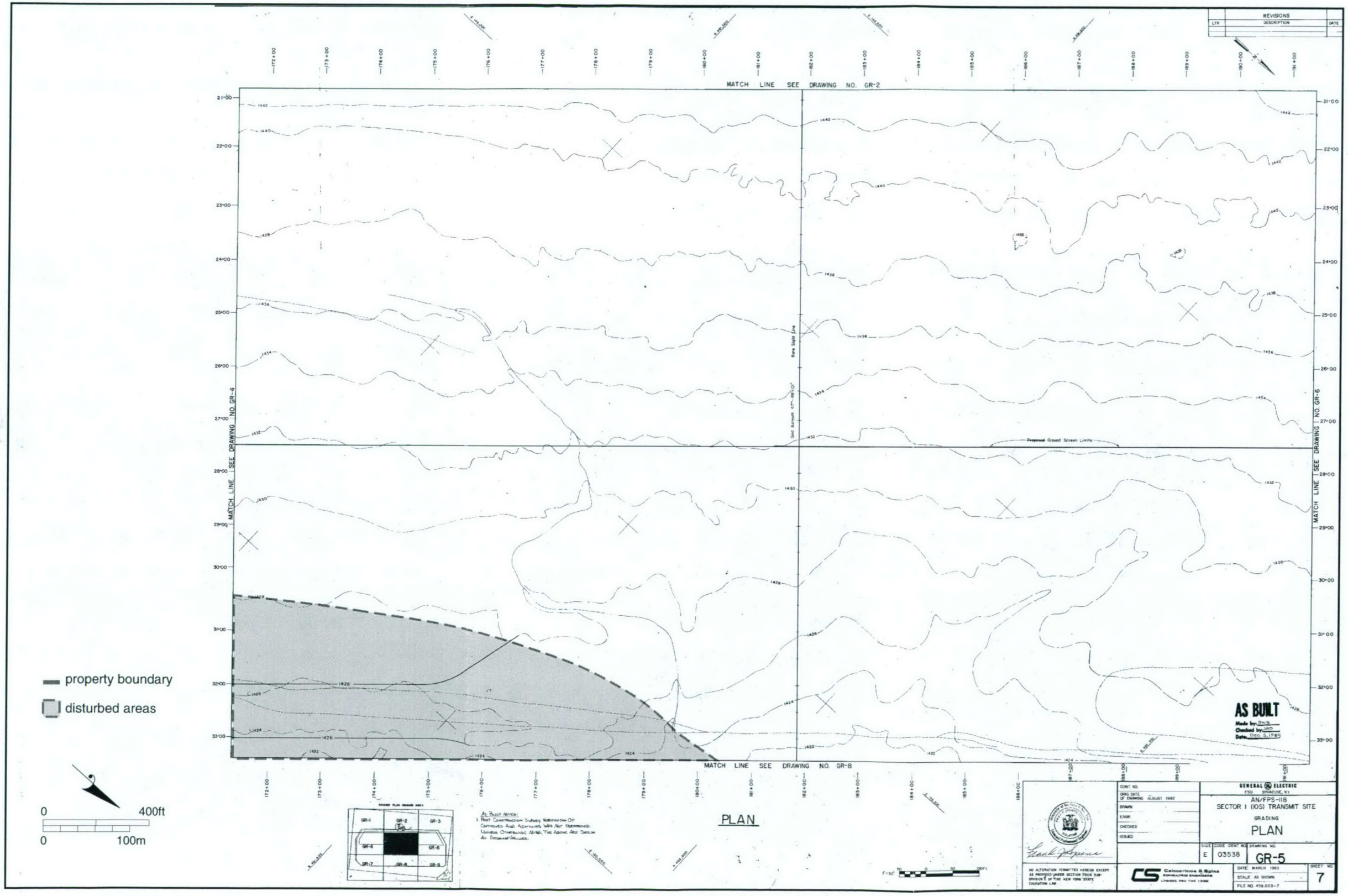
Appendix II. Moscow Station, Sector 1, Sheet 2.



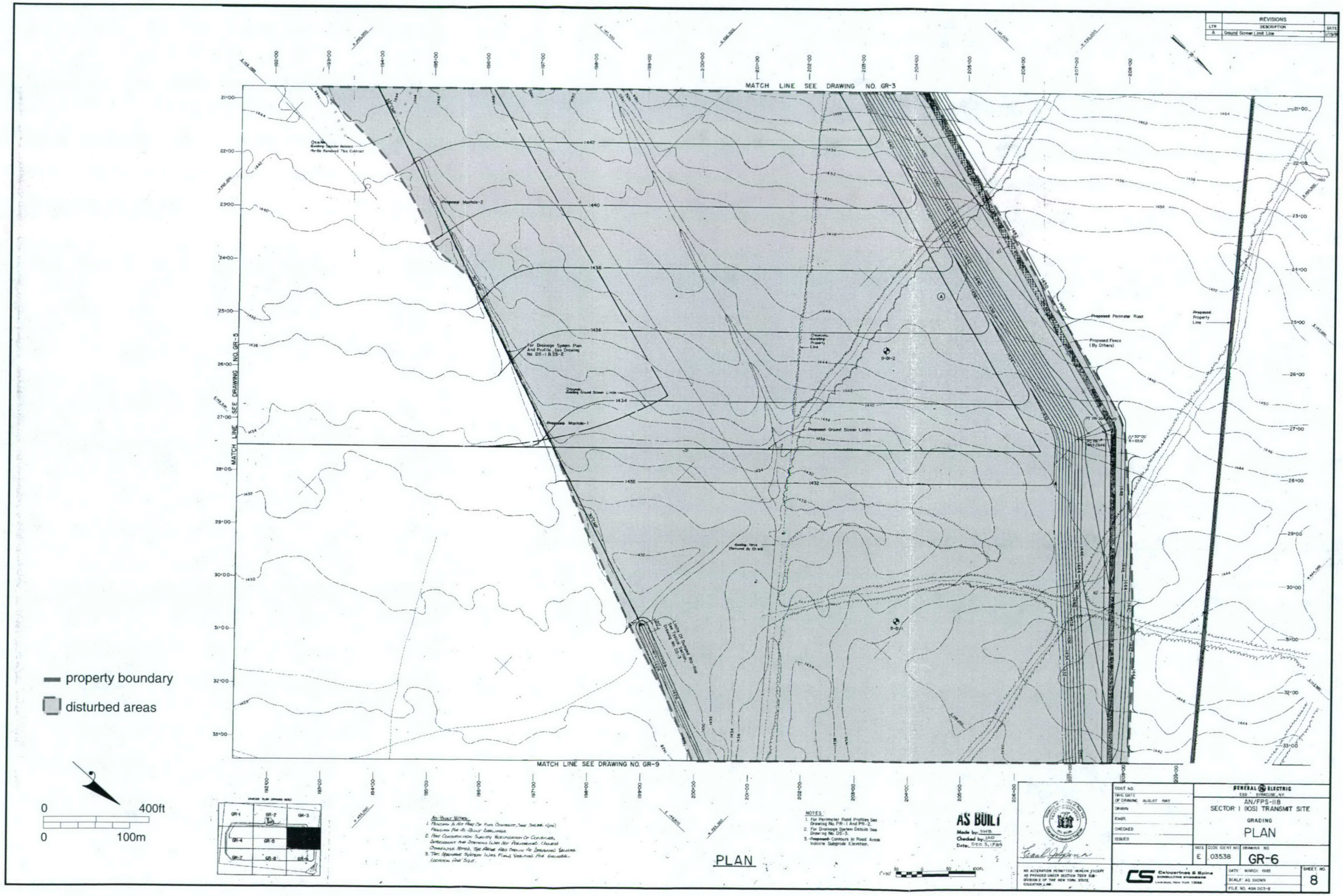
Appendix II. Moscow Station, Sector 1, Sheet 3.



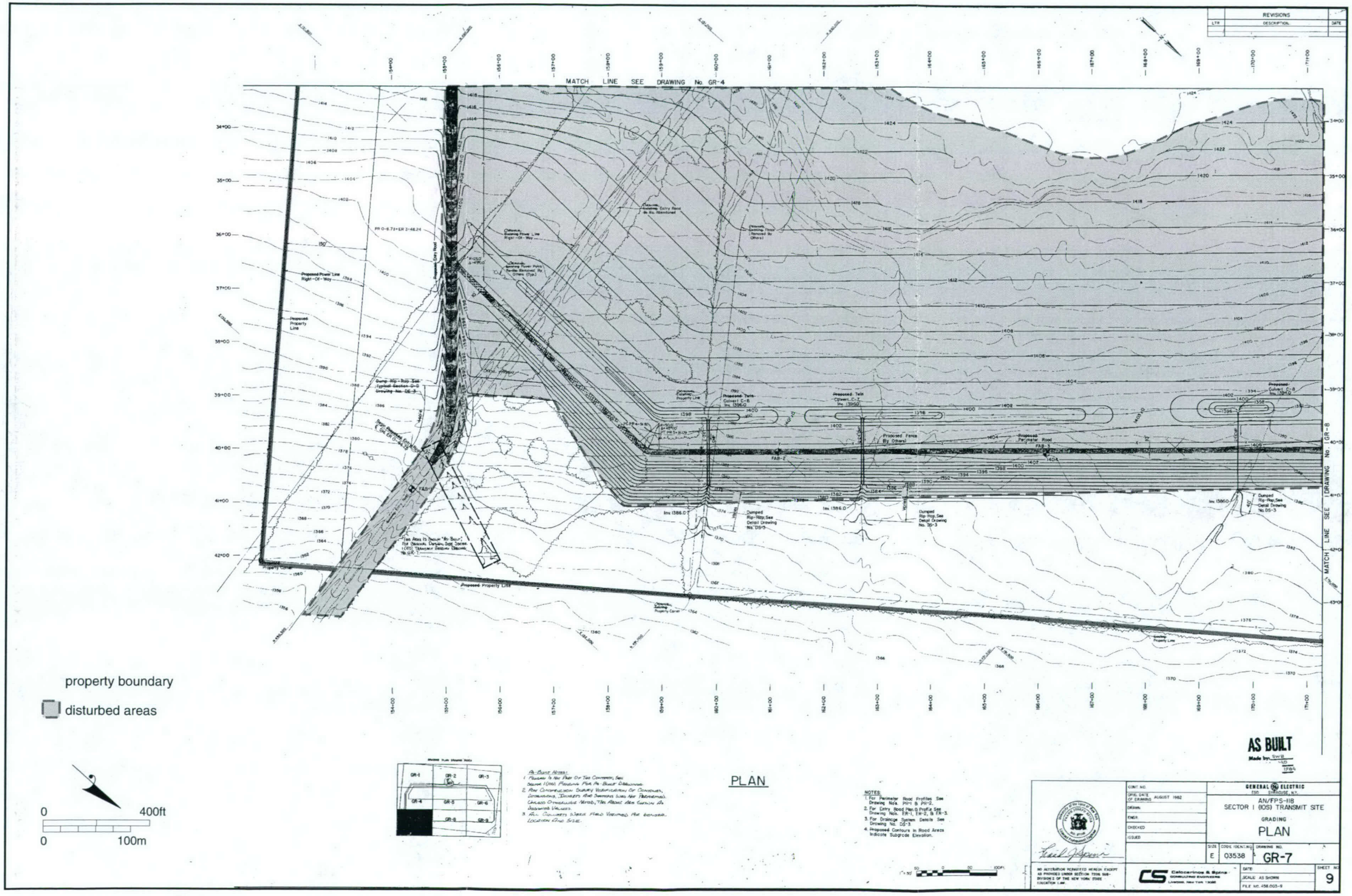
Appendix II. Moscow Station, Sector 1, Sheet 4.



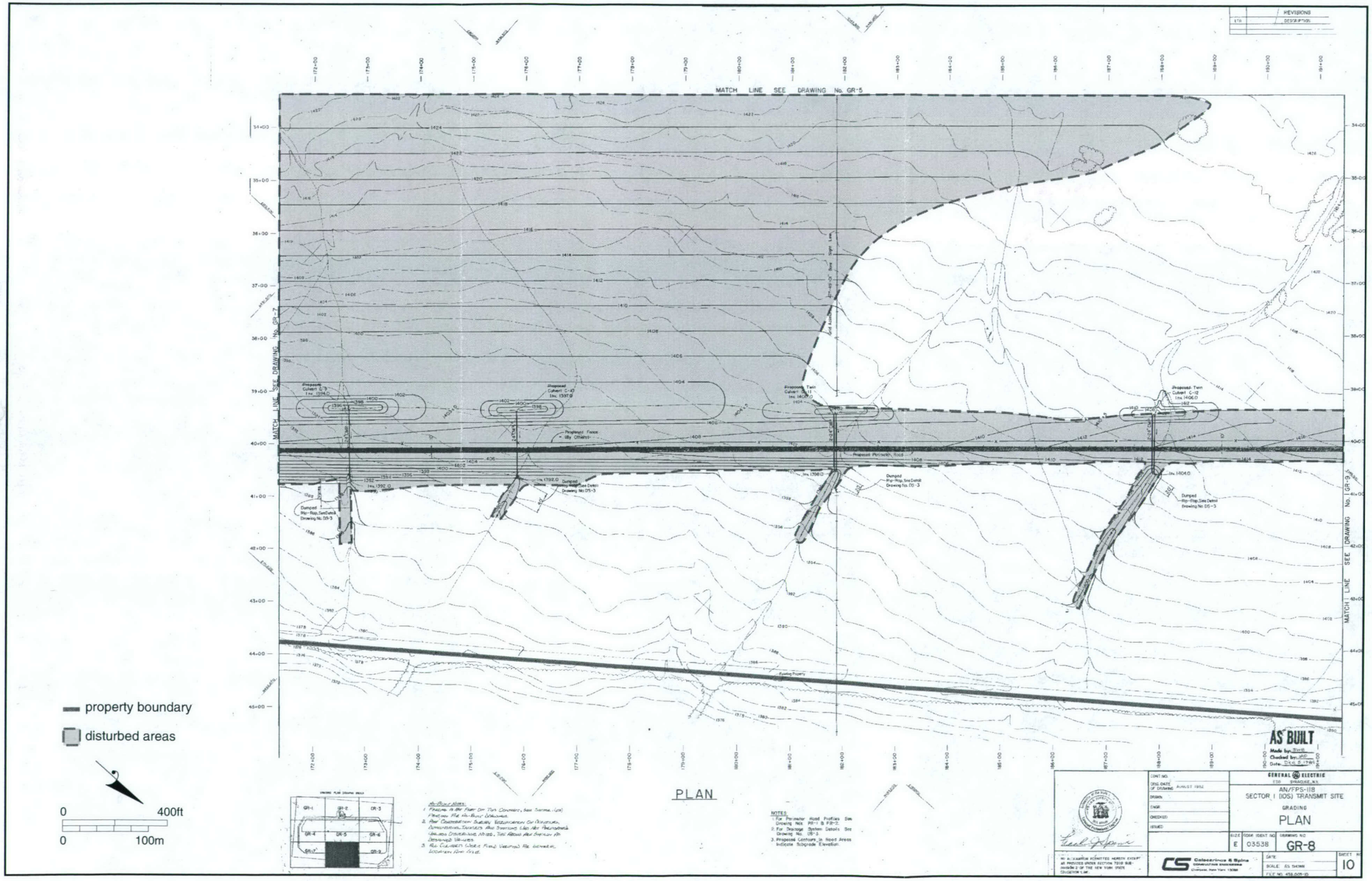
Appendix II. Moscow Station, Sector 1, Sheet 5.



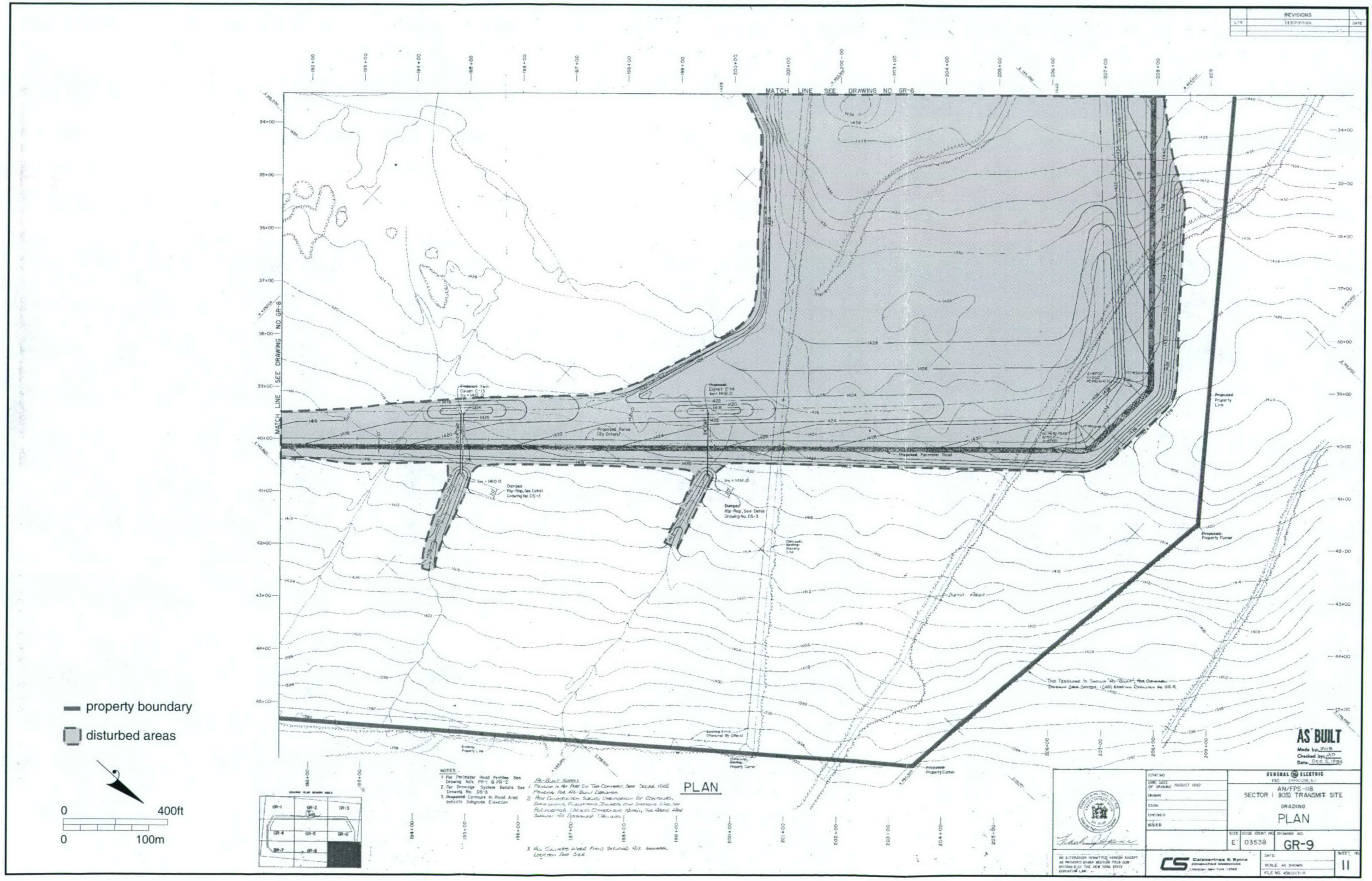
Appendix II. Moscow Station, Sector 1, Sheet 6.



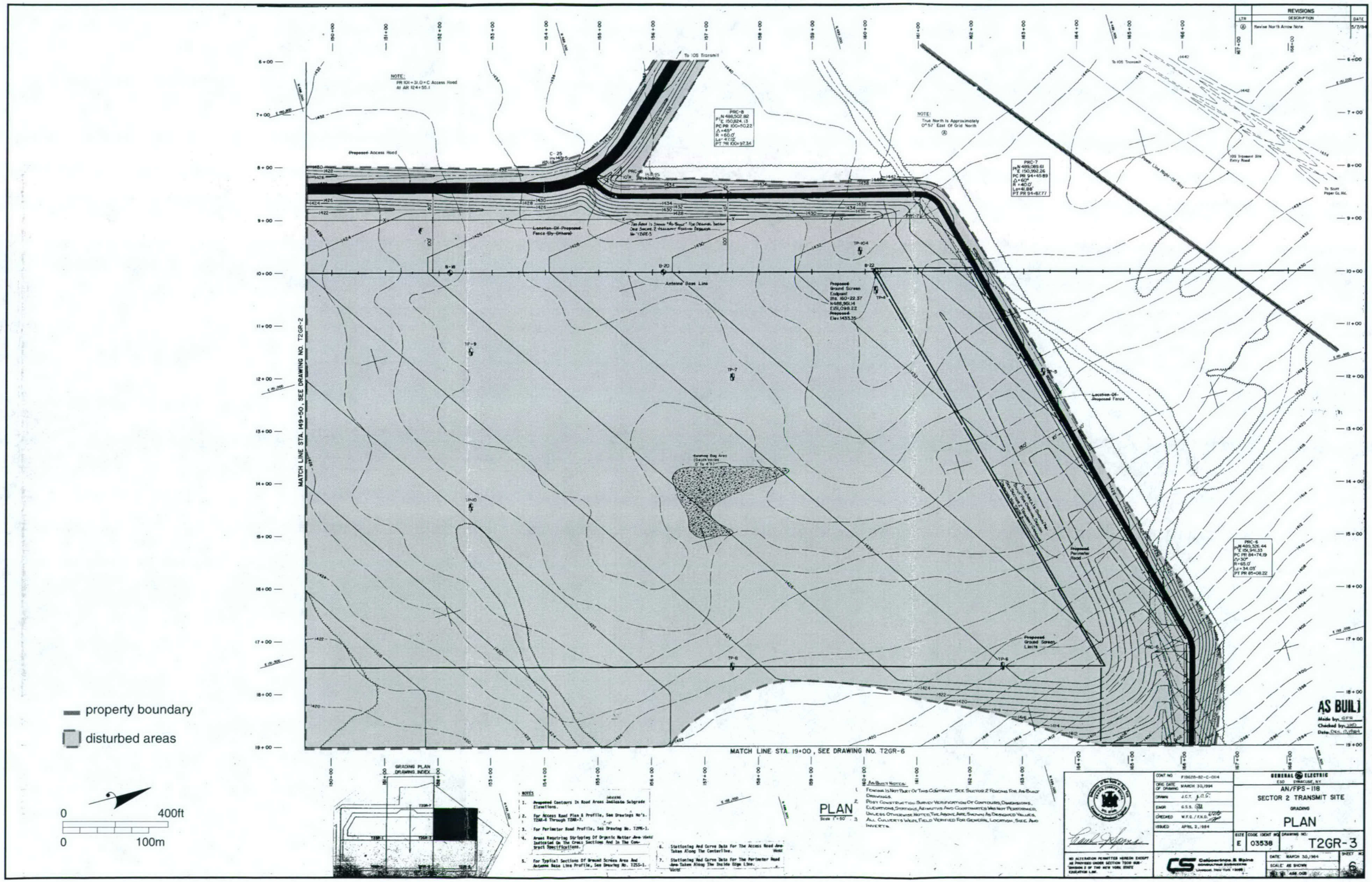
Appendix II. Moscow Station, Sector 1, Sheet 7.



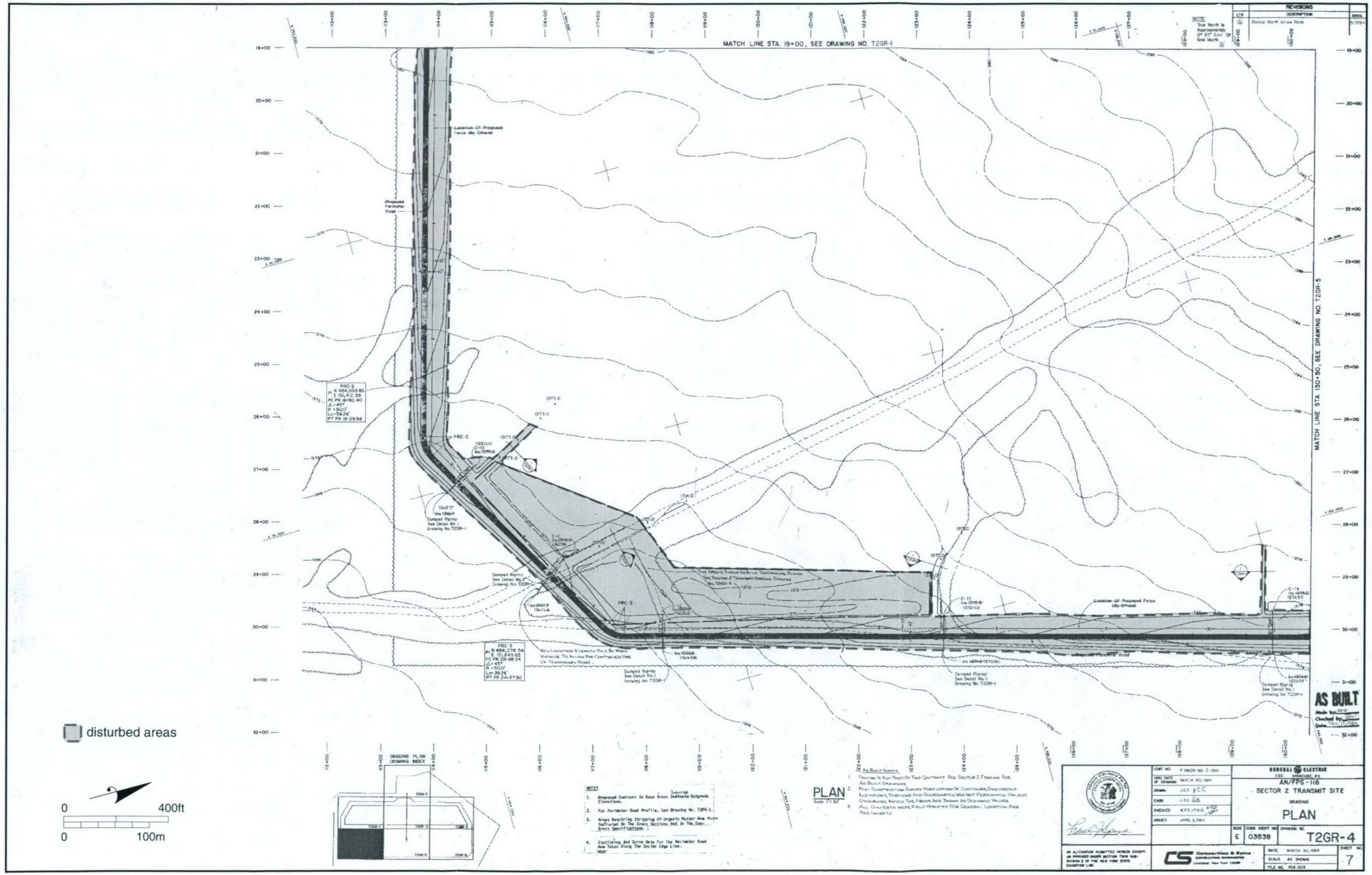
Appendix II. Moscow Station, Sector 1, Sheet 8.



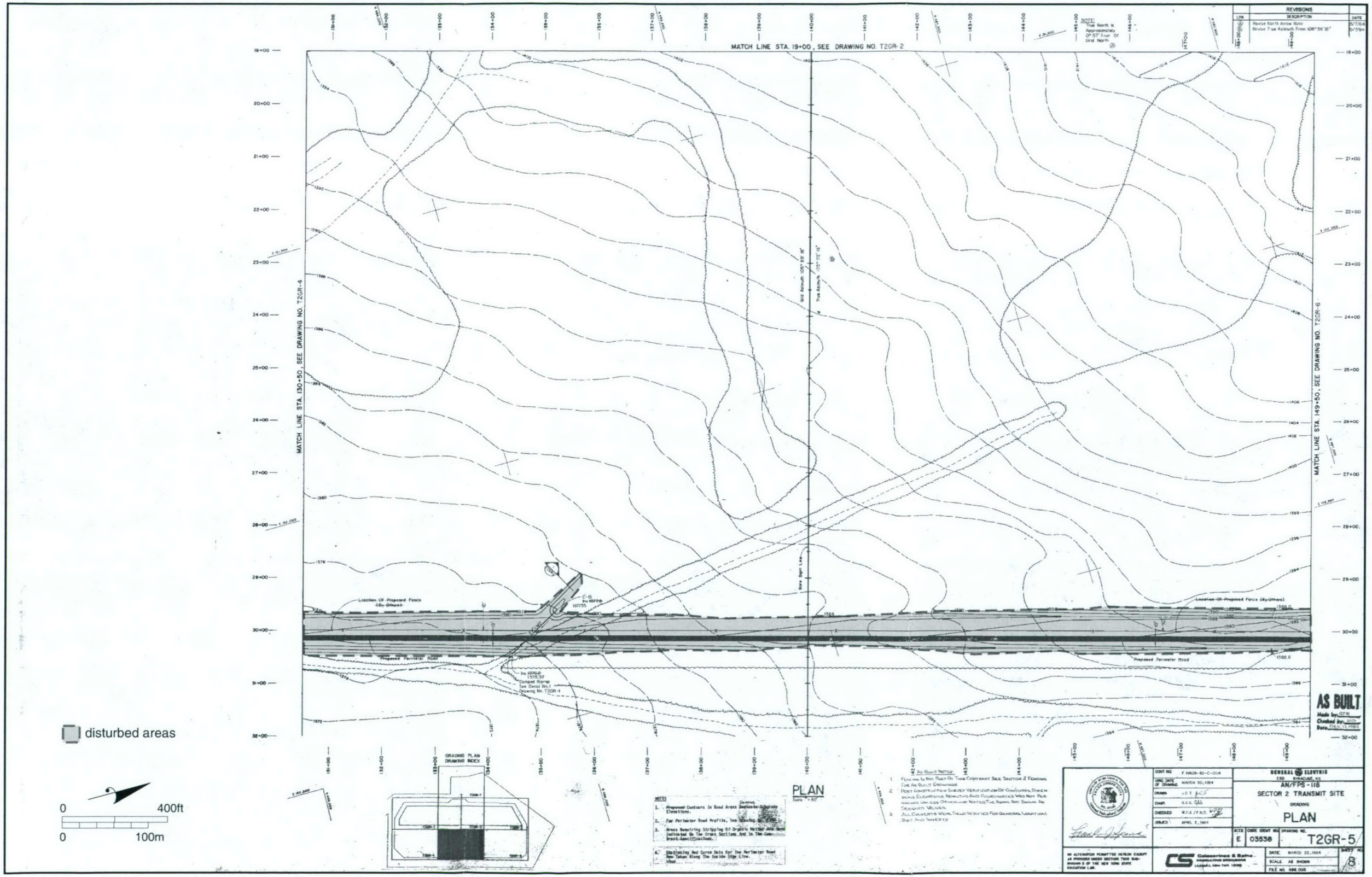
Appendix II. Moscow Station, Sector 1, Sheet 9.



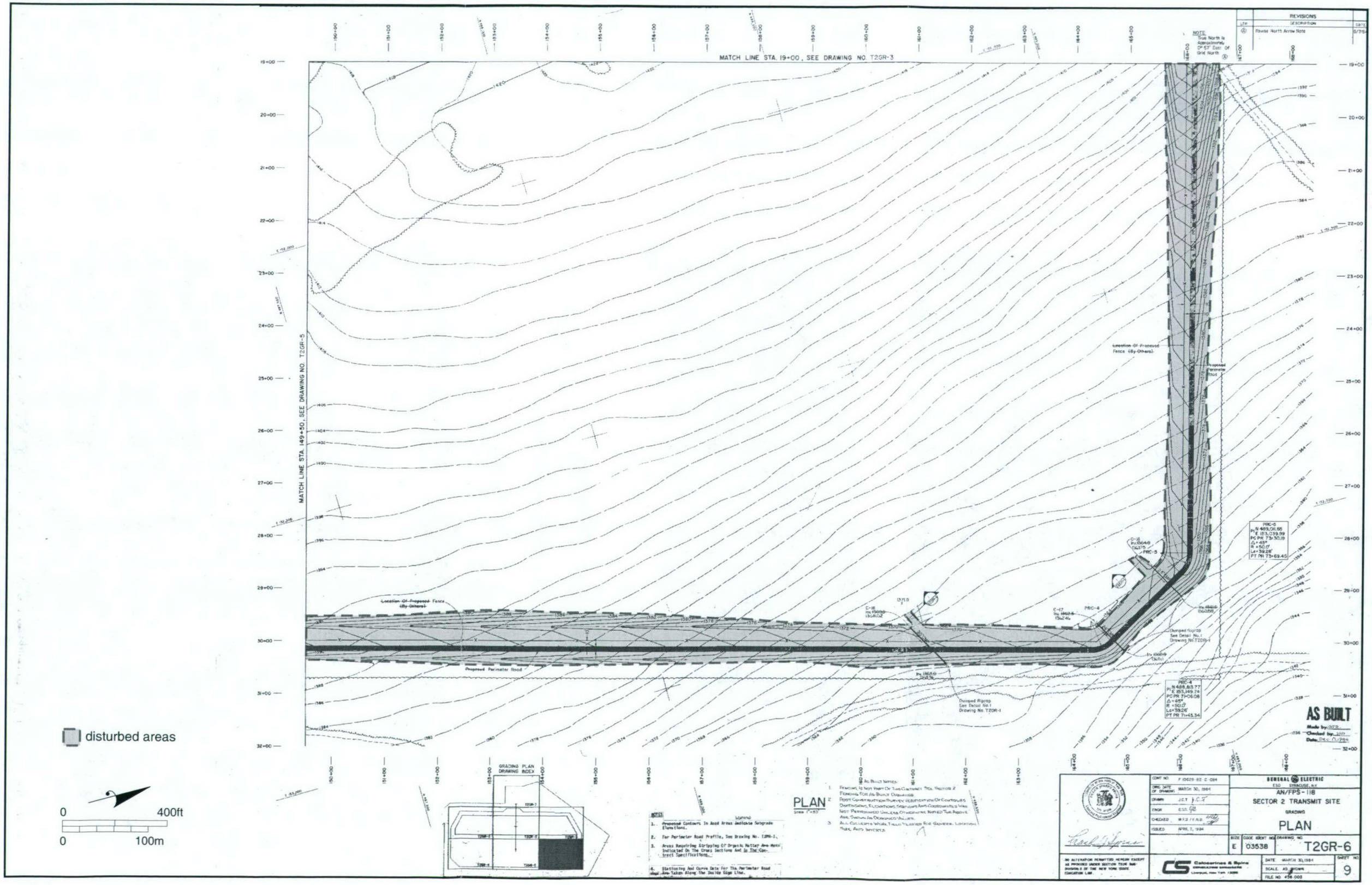
Appendix II. Moscow Station, Sector 2, Sheet 3.



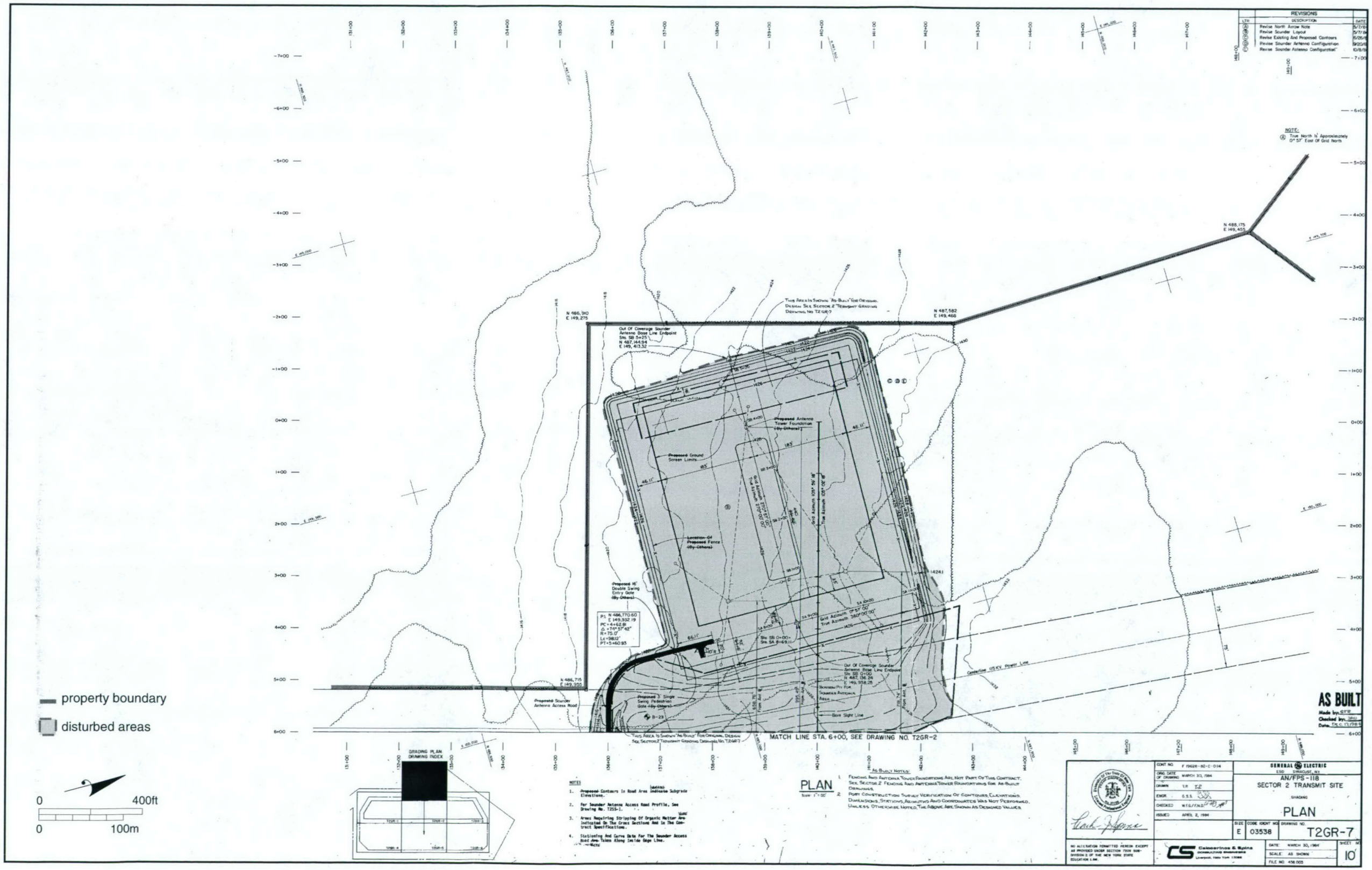
Appendix II. Moscow Station, Sector 2, Sheet 4.



Appendix II. Moscow Station, Sector 2, Sheet 5.



Appendix II. Moscow Station, Sector 2, Sheet 6.



Appendix II. Moscow Station, Sector 2, Sheet 7.

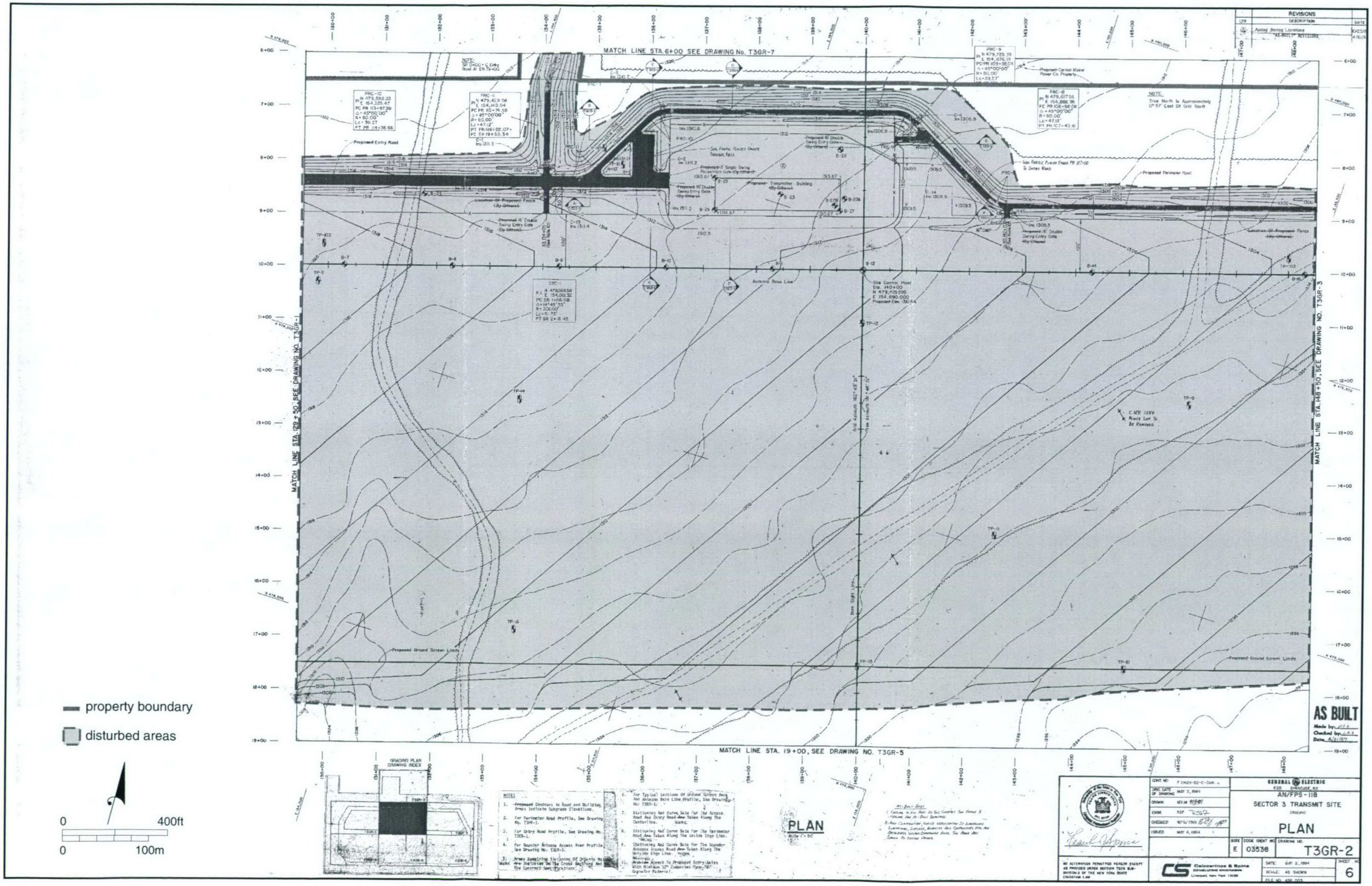
property boundary

disturbed areas

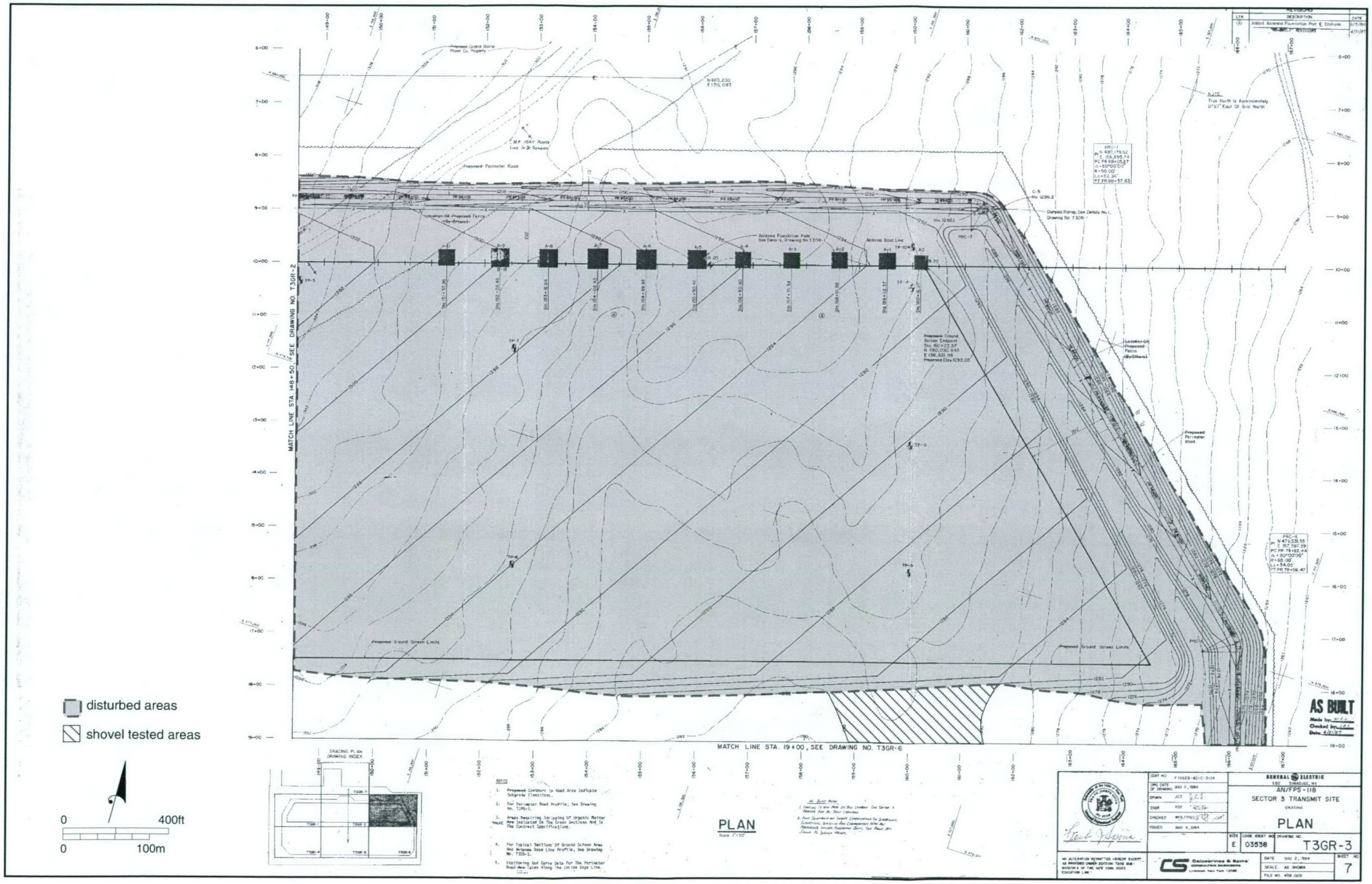
0 400ft

0 100m

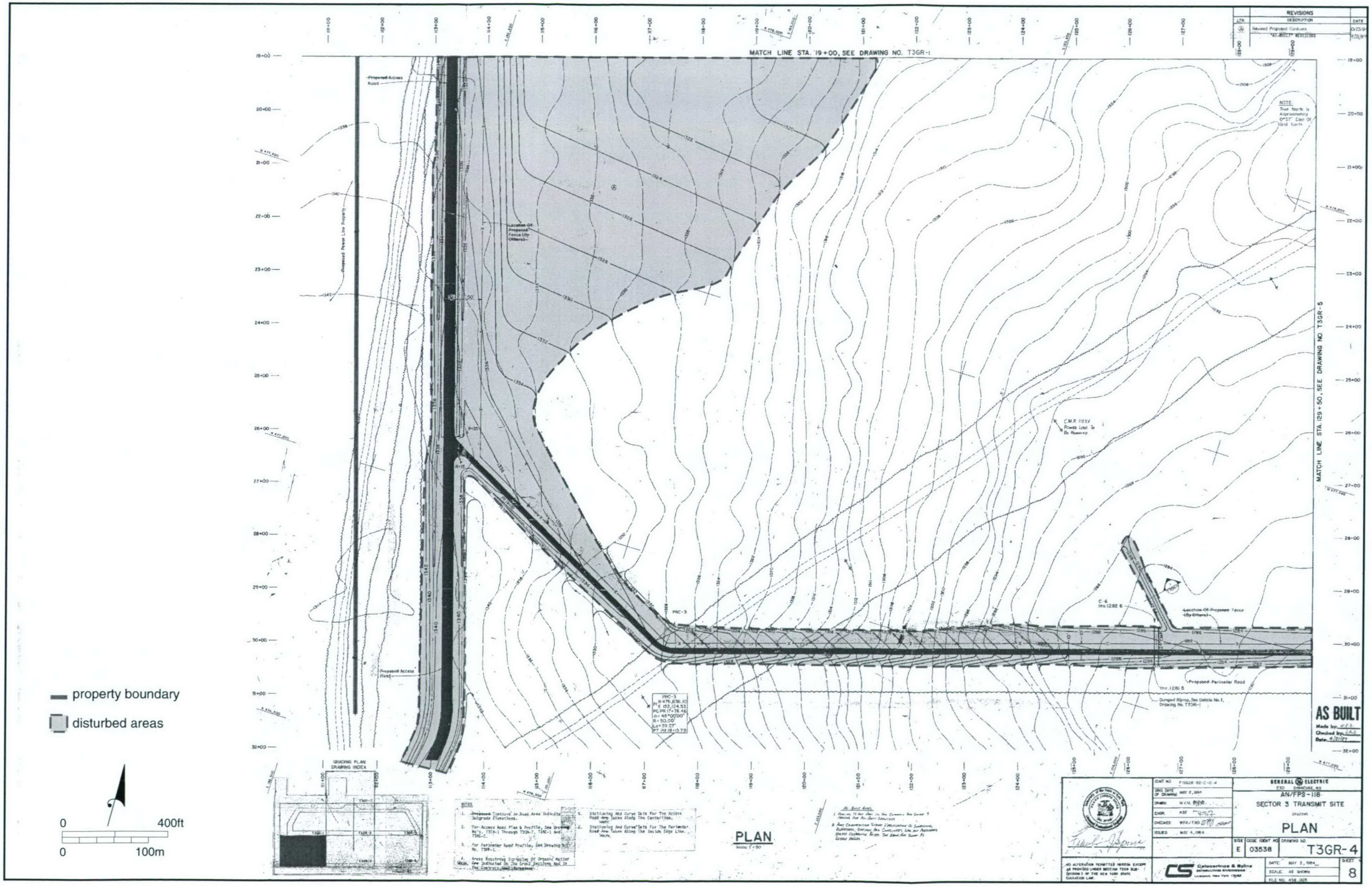
Appendix II. Moscow Station, Sector 3, Sheet 1.



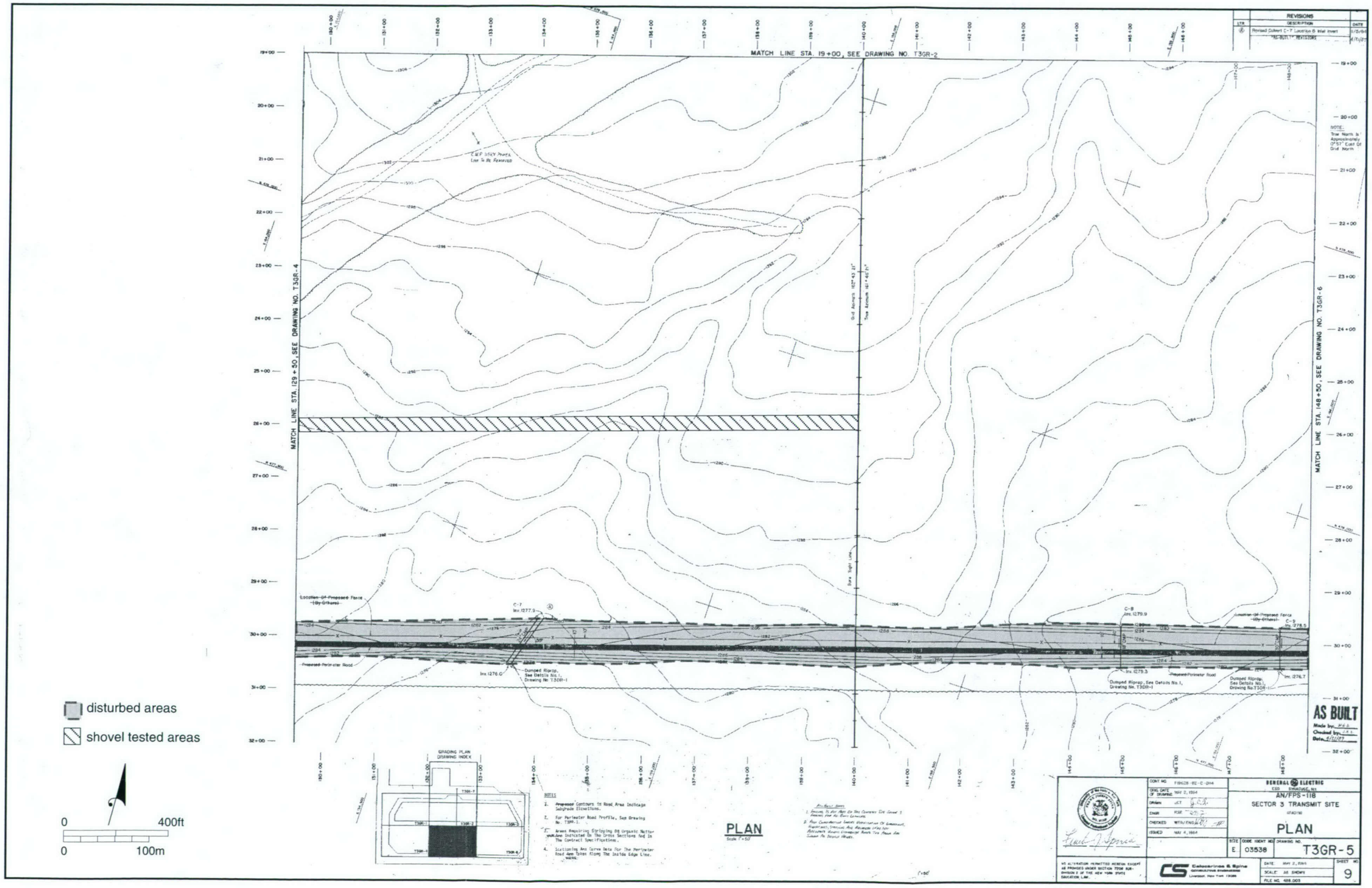
Appendix II. Moscow Station, Sector 3, Sheet 2.



Appendix II. Moscow Station, Sector 3, Sheet 3.



Appendix II. Moscow Station, Sector 3, Sheet 4.



REVISIONS

LTR	DESCRIPTION	DATE
A	Revised Culvert C-7 Location & Inlet Invert	11/5/84
	"AS-BUILT" REVISIONS	4/11/89

NOTES

2. Proposed Contours In Road Area Indicate Subgrade Elevations.
3. For Perimeter Road Profile, See Drawing No. T3GR-1.
5. Areas Requiring Stripping Of Organic Matter And/Or Indicated On The Cross Sections And In The Contract Specifications.
4. Stationing And Curve Data For The Perimeter Road Are Taken Along The Inside Edge Line.

Anchorage Notes
1. Ground To Be Kept On The Current Ice Level To Prevent Ice Run Ice Damage.
2. Per Cumberland County Association Of Government, Highways, Streets And Roadways (May Not Affect Roads Designed North Of Route 104 Due To Snow Plows).

CONT NO.	F19628-82-C-2014
ORIG DATE OF DRAWING	MAY 2, 1984
DRAWN	JCT
TRACED	RSR
CHECKED	WTH/ENG
ISSUED	MAY 4, 1984

GENERAL ELECTRIC
CED SYRACUSE, NY
AN/FPS-118
SECTOR 3 TRANSMIT SITE
MOSCOW
PLAN

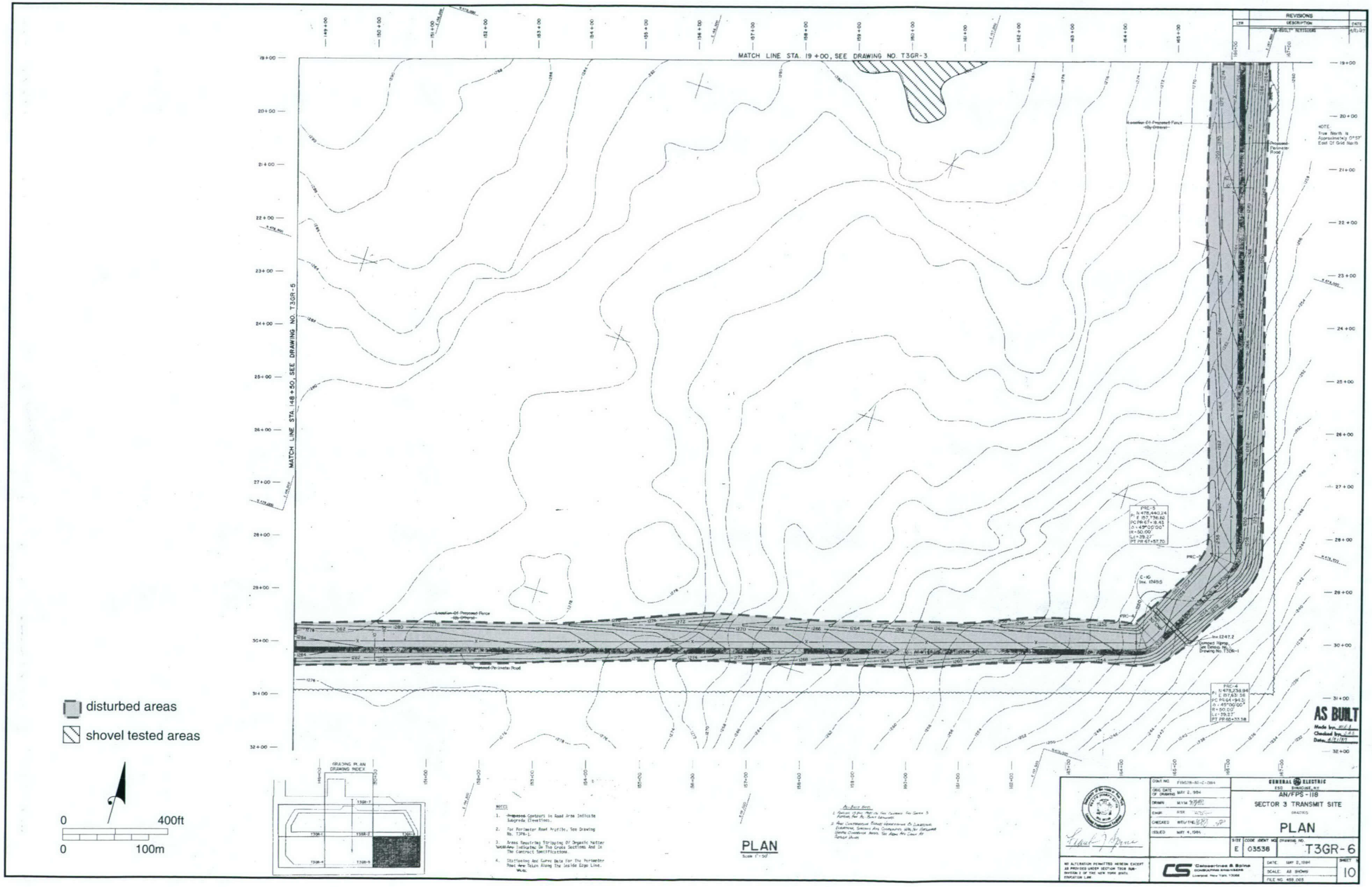
SIZE	CODE IDENT NO.	DRAWING NO.
E	03538	T3GR-5

Cahoonzinn & Spine
CONSULTING ENGINEERS
Liverpool, New York 13088

DATE: MAY 2, 1984
SCALE: AS SHOWN
FILE NO. 408.005
SHEET NO. 9

NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Appendix II. Moscow Station, Sector 3, Sheet 5.



Appendix II. Moscow Station, Sector 3, Sheet 6.

property boundary

disturbed areas

0 400ft

0 100m

AS BUILT

MATCH LINE STA. 6+00, SEE DRAWING NO. T3GR-2

PLAN

NOTE
True North is Approximately 0°57' East Of Grid North

REVISIONS		
LTR	DESCRIPTION	DATE
G	Revised Sounder Antenna Ground Scales, Fence & Contours. Added Sounder Antenna Tower To Anchor Locations.	5/25/84

GENERAL ELECTRIC
AN/FPS-118
SECTOR 3 TRANSMIT SITE
PLAN
SIZE E | CODE IDENT NO. 03538 | DRAWING NO. T3GR-7
SHEET NO. 11

Appendix II. Moscow Station, Sector 3, Sheet 7.

APPENDIX III:

LIST OF ACRONYMS AND ABBREVIATIONS

APPENDIX III:
LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Air Combat Command
AFI	Air Force Instruction
FCR	Fire Cracked Rock
IF	Isolated Find
JMA	John Milner Associates, Inc.
MHPC	Maine Historic Preservation Commission
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
OTHB	Over-the-Horizon-Backscatter
OTHB-E	Over-the-Horizon-Backscatter Radar East Coast
STU	Shovel Test Unit

CONTRACT DATA

This study was prepared for the
Columbia Falls and Moscow OTHB-E Radar Stations,
Washington and Somerset Counties, Maine

by
Geraldine E. Baldwin, RPA
and
William J. Chadwick, Ph.D., RPA
John Milner Associates, Inc.
1 Croton Point Avenue
Croton-on-Hudson, New York 10520

Principal Investigator
Geraldine E. Baldwin

for
Geo-Marine, Inc.
550 East 15th Street
Plano, Texas 75074

U.S. AIR FORCE AIR COMBAT COMMAND SERIES
REPORTS OF INVESTIGATIONS
NUMBER 25

under contract to
U.S. Army Corps of Engineers, Fort Worth District
819 Taylor Street
Fort Worth, Texas 76102
Contract No. DACA63-99-D-0010, Delivery Order No. 0052

November 2004

United States Air Force
Air Combat Command