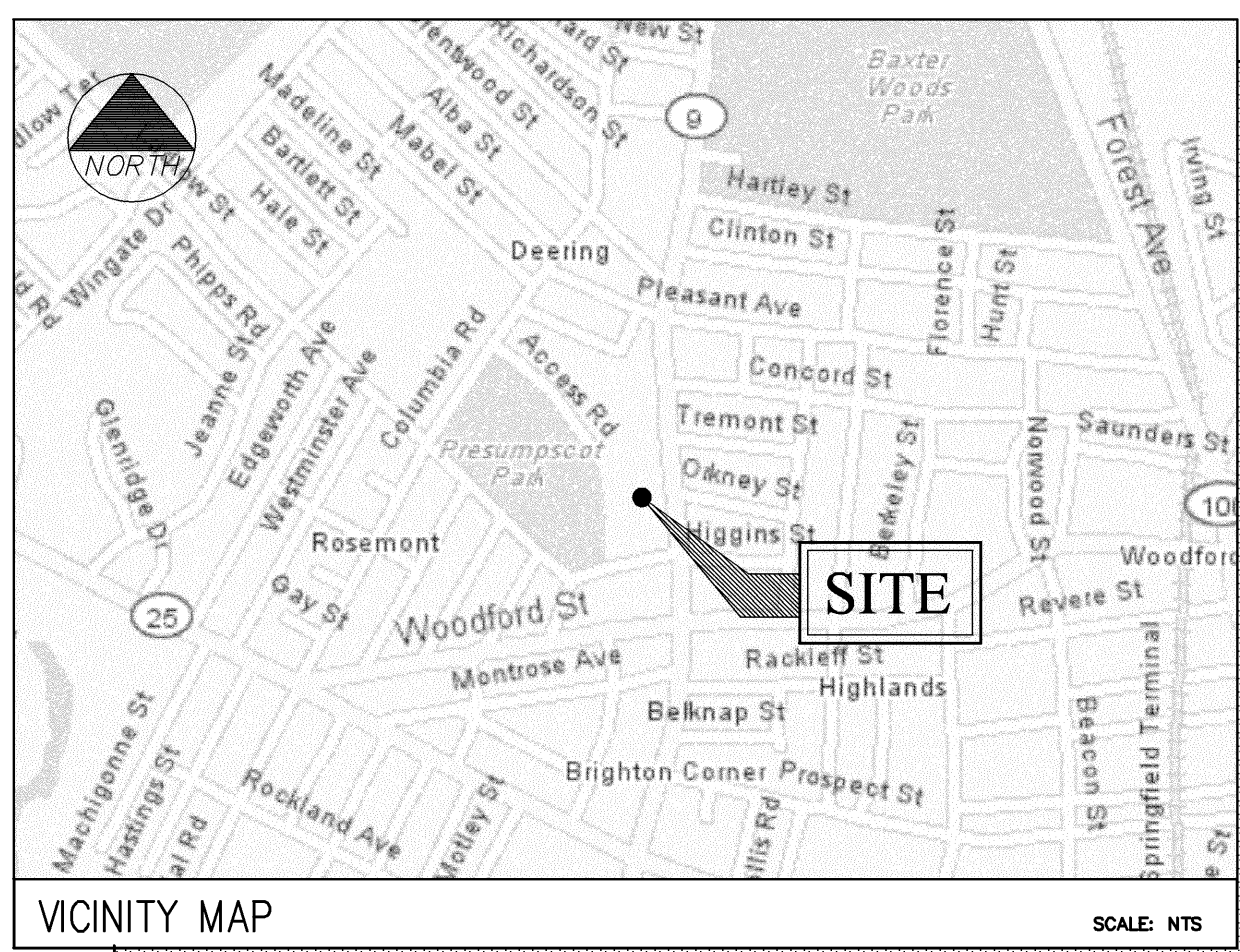


# U.S. Cellular

*The way people talk around here.™*

**SITE NAME:** ROSEMONT (DEERING H.S.)  
**SITE NO.** 853418  
**LATITUDE:** 43° 40' 16.48"  
**LONGITUDE:** 70° 17' 45.08"

<b>SITE NUMBER:</b>	853418
<b>SITE NAME:</b>	ROSEMONT (DEERING H.S.)
<b>TOWER TYPE:</b>	70' ROOF TOP TOWER (PROPOSED)
<b>GROUND ELEVATION:</b>	95' ABOVE MEAN SEA LEVEL
<b>ROOF TOP ELEVATION:</b>	134' ABOVE MEAN SEA LEVEL
<b>SITE ADDRESS:</b>	370 STEVENS AVE PORTLAND, ME 04103
<b>PROPERTY OWNER:</b>	CITY OF PORTLAND 389 CONGRESS ST PORTLAND, ME 04101
<b>MAP &amp; LOT:</b>	175/B/1
<b>APPLICANT:</b>	U.S. CELLULAR c/o KJK WIRELESS 127 RIDGE ROAD NASHUA, NH 03062
<b>PROJECT SUMMARY</b>	



**DIRECTIONS**  
 FROM GANNETT DRIVE SOUTH PORTLAND: PROCEED NORTH ON GANNETT DRIVE TOWARDS CUMMINGS ROAD. TURN RIGHT ONTO CUMMINGS ROAD AND PROCEED 4.35 MILES TO RUNNING HILL ROAD. TURN LEFT ONTO RUNNING HILL ROAD AND PROCEED 4.23 MILES. TURN LEFT ONTO MAINE MALL ROAD AND PROCEED 3.40 MILES TO WESTERN AVE (ROUTE 9). TURN LEFT ONTO WESTERN AVE AND PROCEED 2.80 MILES. BEAR LEFT ONTO FROST STREET AND PROCEED 1.05 MILES. KEEP RIGHT ONTO CAPISIC STREET AND PROCEED .64 MILES TO STEVENS AVE (ROUTE 8). TURN LEFT ONTO STEVENS AVE AND PROCEED .59 MILES TO DEERING HIGH SCHOOL LOCATED ON THE LEFT.

SHEET NO.	DESCRIPTION	DATE	REV. NO.
T-1	TITLE SHEET	3/1/06	2
C-1	PLOT PLAN	3/1/06	1
D-1	DEMOLITION PLAN	3/1/06	0
S-1	ROOF PLAN	2/3/06	1
S-2	TOWER ELEVATION & PLAN	3/1/06	2
S-3	FLOOR PLAN, DETAILS AND SECTIONS	3/1/06	2
G-1	GENERAL NOTES	2/3/06	0

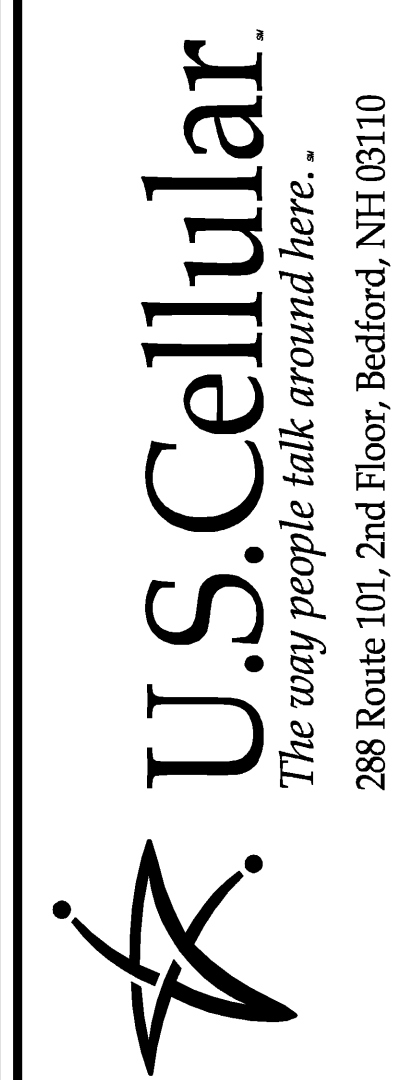
**SHEET INDEX**

**BUILDING REQUIREMENTS:**  
 BUILDING IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

**PLUMBING REQUIREMENTS:**  
 FACILITY HAS NO PLUMBING.



THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



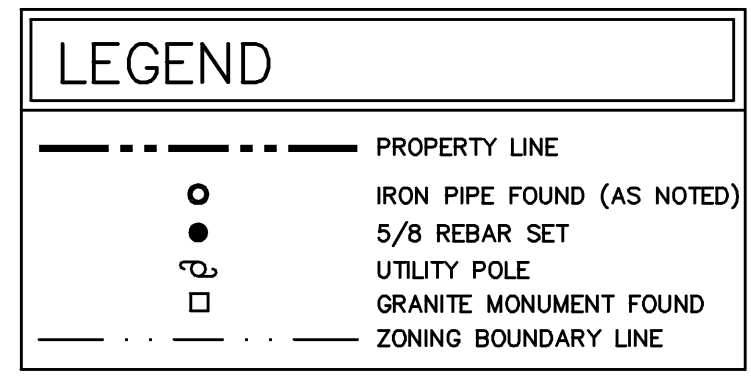
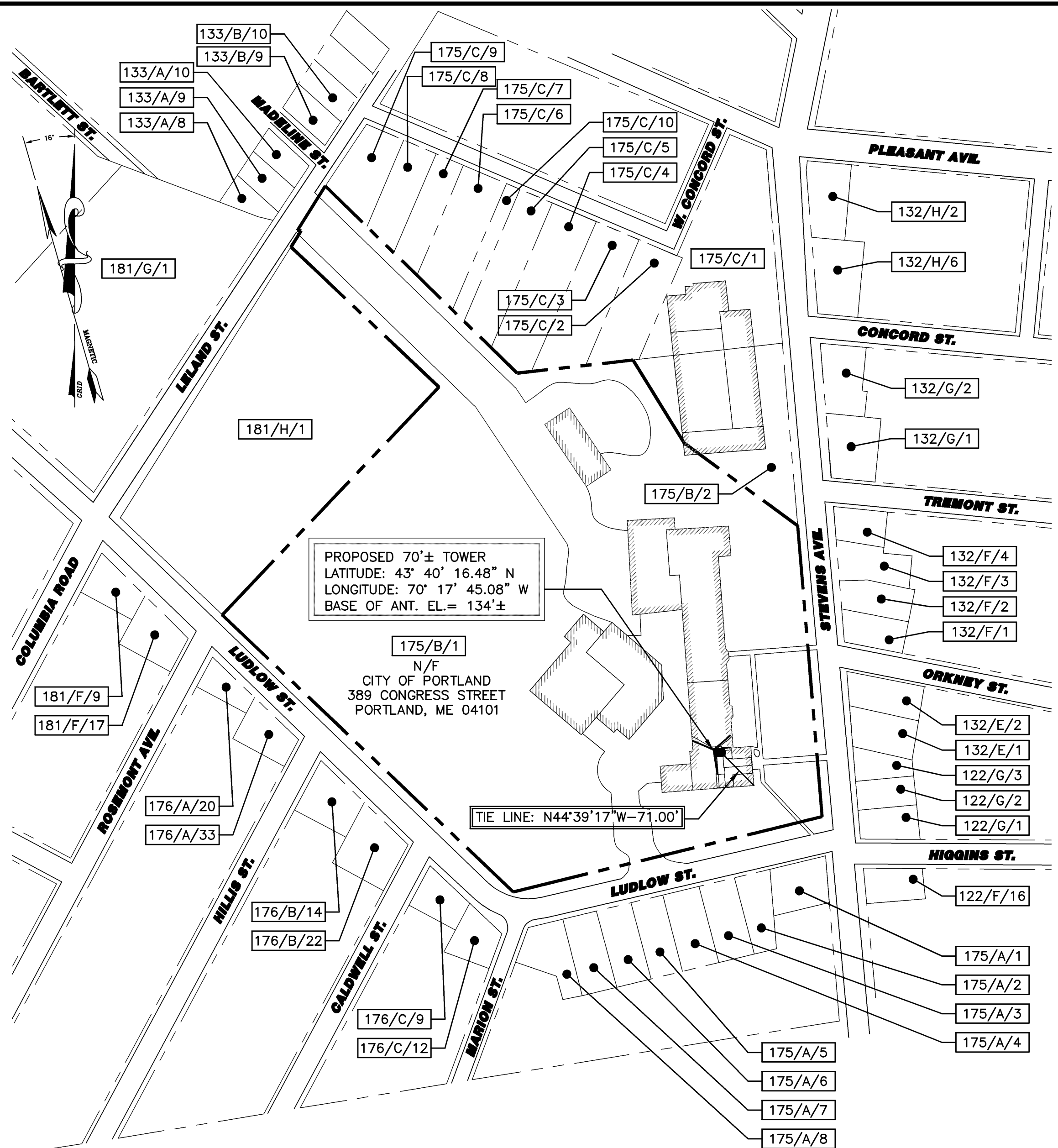
R.F. \_\_\_\_\_  
 SA/ZN \_\_\_\_\_  
 CONST. \_\_\_\_\_  
 U.S.C.C. \_\_\_\_\_  
 P.M. \_\_\_\_\_

**CEST Associates, Inc.**  
 343 Gorton Road - South Portland, ME 04106  
 engineers architects surveyors  
 TEL: (207) 761-1770  
 FAX: (207) 774-1246  
 CEST PROJ. NO: 413.46.01

**SITE NAME:** ROSEMONT (DEERING H.S.)  
**SITE NUMBER:** 853418  
**ADDRESS:** 370 STEVENS AVE.  
 PORTLAND, ME. 04103  
**DRAWING TITLE:** TITLE SHEET

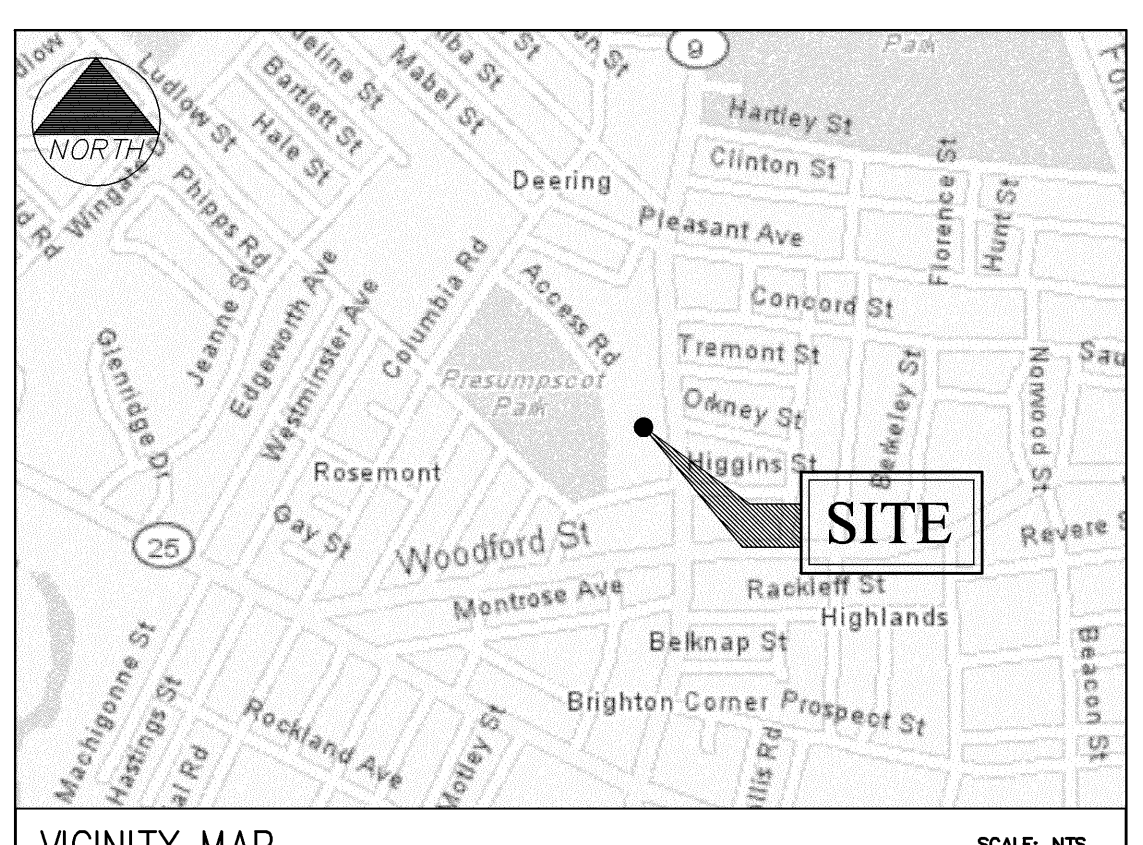
REVISIONS		
No.	DESCRIPTION	DATE
2	FOR CONSTRUCTION	3/1/06
1	FOR CONSTRUCTION	3/1/06
0	FOR CONSTRUCTION	2/3/06

**DESIGNED BY:** MSD  
**DATE:** 2/3/06  
**DRAWN BY:** ERB  
**SCALE:** AS NOTED  
**CHECKED BY:** MSD  
**PROJECT NO.:** 413.46.01  
**DRAWING NO.:**



### LIST OF ABUTTERS

MAP/BLOCK/LOT	RECORD OWNER	ADDRESS
TOWN/CITY OF PORTLAND		
122/F/16	JASON E & KERRY M WEINRICH	353 STEVENS AVE PORTLAND, ME 04103
122/G/1	JOSEPH M RIVERA JR	125 NOYES ST PORTLAND, ME 04103
122/G/2	JAMES A & KRISTINE S MILLARD	365 STEVENS AVE PORTLAND, ME 04102
122/G/3	NICOLA M & TRAVIS ADAMS	367 STEVENS AVE PORTLAND, ME 04103
132/E/1 132/E/2 133/A/8 133/A/9 133/A/10 133/B/9 133/B/10 175/B/2 181/H/1 175/C/1 175/C/2 181/G/1	CITY OF PORTLAND	389 CONGRESS ST PORTLAND, ME 04101
132/F/1	CHARLES B MESSER & RHONDA C FARNHAM	P.O. BOX 10347 PORTLAND, ME 04104
132/F/2	RITA I LESNIAK	395 STEVENS AVE PORTLAND, ME 04103
132/F/3	PAUL S & REBECCA C SCHNELL	397 STEVENS AVE PORTLAND, ME 04103
132/F/4	KATHLEEN L WINTER	399 STEVENS AVE PORTLAND, ME 04103
132/G/1	ELIZABETH M & BARRY J LEWIS	411 STEVENS AVE PORTLAND, ME 04103
132/G/2	HANNELORE A HALE	208 CONCORD ST PORTLAND, ME 04103
132/H/2	STEPHEN T & BARBARA J SWAN	19 FAIRVIEW ST PORTLAND, ME 04103
132/H/6	DANIEL E WHYTE & ANN C NORRIS	209 CONCORD ST PORTLAND, ME 04103
175/A/1	DANIEL PANICI & RAMONA OPPENHEIM	27 THUNDER RD NORTH YARMOUTH, ME 04097
175/A/2	JANES W & TERRI L LINEHAN	12 LUDLOW ST PORTLAND, ME 04103
175/A/3	BRIDGET G DALY	18 LUDLOW ST PORTLAND, ME 04103
175/A/4	F BREWER & JEAN BARSTOW	22 LUDLOW ST PORTLAND, ME 04103
175/A/5	BARRY W & GRETCHEN LARMAN	26 LUDLOW ST PORTLAND, ME 04103
175/A/6	CLIFFORD C JR & KAREN F ABBOTT	32 LUDLOW ST PORTLAND, ME 04103
175/A/7	JASON C CLERE & SAXENA CHARU	36 LUDLOW ST PORTLAND, ME 04103
175/A/8	ALLISON T BECK	40 LUDLOW ST PORTLAND, ME 04103
175/C/2	CARL E TAYLOR	28 DEER HILL AVE WESTBROOK, ME 04092
175/C/3	ARTHUR W & ALICE W COBB	244 CONCORD ST PORTLAND, ME 04103
175/C/4	ALICE R RIDEOUT	252 CONCORD ST PORTLAND, ME 04103
175/C/5 175/C/10	STEPHEN W & CYNTHIA I BARTLETT	256 CONCORD ST PORTLAND, ME 04103
175/C/6	FRANK J III & MARGARET M GOVEDNIK	2 CHESTER AVE BRISTON, RI 02809
175/C/7	DANIEL J LAPLANTE	58 CLIFFORD ST SOUTH PORTLAND, ME 04106
175/C/8	BRETT E PLYMALE & KERRY MCGAFFEY	274 CONCORD ST PORTLAND, ME 04103
175/C/9	LOIS A WEBER	172 LONG HILL RD GRAY, ME 04039
176/A/20	AMY E COHAN & AUSTIN K SMITH	81 ROSEMONT AVE PORTLAND, ME 04103
176/A/33	ELIZABETH P RICHARDS	62 HILLIS ST PORTLAND, ME 04103
176/B/14	ELLEN C HANEY	57 HILLIS ST PORTLAND, ME 04103
176/B/22	NANCY J VERONEAU	40 CALDWELL ST PORTLAND, ME 04103
176/C/9	WILLIAM R & DIANE R KEELAN	37 CALDWELL ST PORTLAND, ME 04103
176/C/12	NORMA S KNIGHT	20 MARLOW ST PORTLAND, ME 04103
181/F/9	THOMAS S & SUSAN V NIXON	118 LUDLOW ST PORTLAND, ME 04103
181/F/17	EVANGELINE E & TOBY H HOLLANDER	112 LUDLOW ST PORTLAND, ME 04103



### GENERAL NOTES

- DATES OF FIELD SURVEY: NOVEMBER, 2005
- SITE NAME: DEERING HIGH SCHOOL
- SITE NUMBER: 853418
- SITE ADDRESS: 370 STEVENS AVE. PORTLAND, ME 04103 CUMBERLAND COUNTY
- OWNER: CITY OF PORTLAND 389 CONGRESS ST PORTLAND, ME 04101 CUMBERLAND COUNTY
- APPLICANT: U.S. CELLULAR c/o KJK WIRELESS 127 RIDGE ROAD NASHUA, NH 03062
- JURISDICTION: PORTLAND, MAINE
- ZONING DISTRICT: RESIDENTIAL (R5)
- TAX IDENTIFICATION: MAP 175 BLOCK B LOT 1
- VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929. (MEAN SEA LEVEL).
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
- CENTER OF PROPOSED TOWER: LATITUDE: 43° 40' 16.48" N (NAD 83) LONGITUDE: 70° 17' 45.08" W (NAD 83) BASE OF ANT. EL. = 134'±
- BEARINGS ARE BASED ON MAINE STATE GRID COORDINATE SYSTEM, WEST ZONE, (NAD83).
- ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1(888) 344-7233 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
- PROPERTY IS LOCATED IN FLOOD ZONE "C" AS SHOWN ON FLOOD INSURANCE RATE MAP IN THE TOWN OF PORTLAND, MAINE, CUMBERLAND COUNTY PANEL 13 OF 17, COMMUNITY PANEL NUMBER 230051-0013 B EFFECTIVE DATE JULY 17, 1986. ZONE "C" IS DEFINED AS AN AREA WITH MINIMAL FLOODING.

### FAA CERTIFICATION - 2C

I HEREBY CERTIFY THAT THE LATITUDE, LONGITUDE, AND ELEVATIONS PRESENTED HEREON MEETS THE REQUIREMENTS OF THE FAA WITH THE FOLLOWING ACCURACIES:

+/- TWENTY (20) FEET VERTICALLY  
 +/- FIFTY (50) FEET HORIZONTALLY

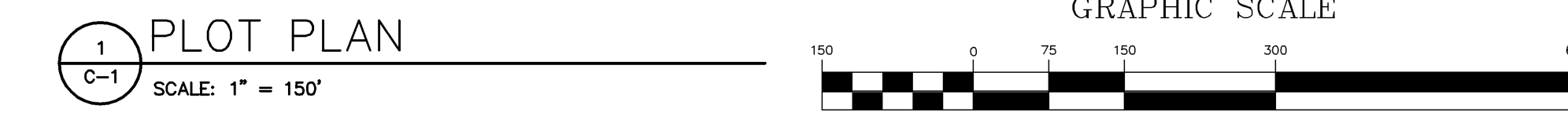
JEROME B. WATTS  
 LICENSED LAND SURVEYOR #1245

### ZONING INFORMATION

ZONING DISTRICT:	RESIDENTIAL (R5)
MINIMUM STREET FRONTAGE:	50 FEET
FRONT YARD SETBACK:	20 FEET
REAR YARD SETBACK:	15 FEET
MINIMUM LOT SIZE:	20 FEET
	30,000 SQ. FT.

EQUIPMENT INSTALLATION SHALL MEET ALL LOCAL, STATE AND FEDERAL REQUIREMENTS FOR EQUIPMENT EMISSIONS.

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



### DESCRIPTION OF LEASE AREA

LEGAL DESCRIPTION - LEASE PARCEL

A CERTAIN PARCEL OF LAND LOCATED WESTERLY OF STEVENS AVE., IN THE CITY OF PORTLAND, CUMBERLAND COUNTY, MAINE, AND LYING WITHIN LAND OF THE GRANTOR(S):

BEGINNING AT A POINT MARKING THE SOUTHWESTERLY CORNER OF THE FOLLOWING DESCRIBED LEASE, LOCATED N44°39'17"W, 71.00 FEET FROM THE SOUTHEASTERLY CORNER OF THE EXISTING DEERING HIGH SCHOOL, SO CALLED;

THENCE, N04°24'52"W, 15.83 FEET TO A CORNER OF THE ROOM;

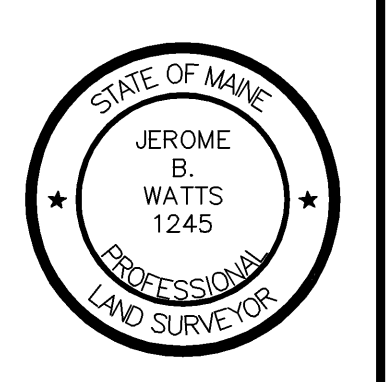
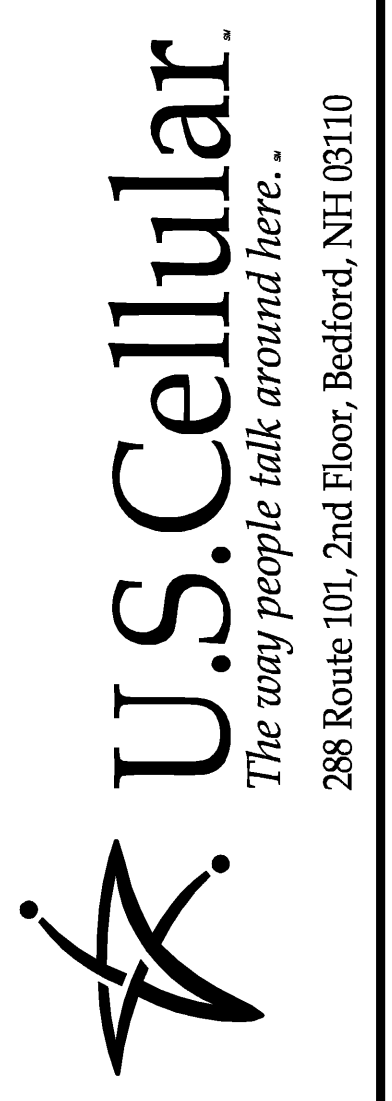
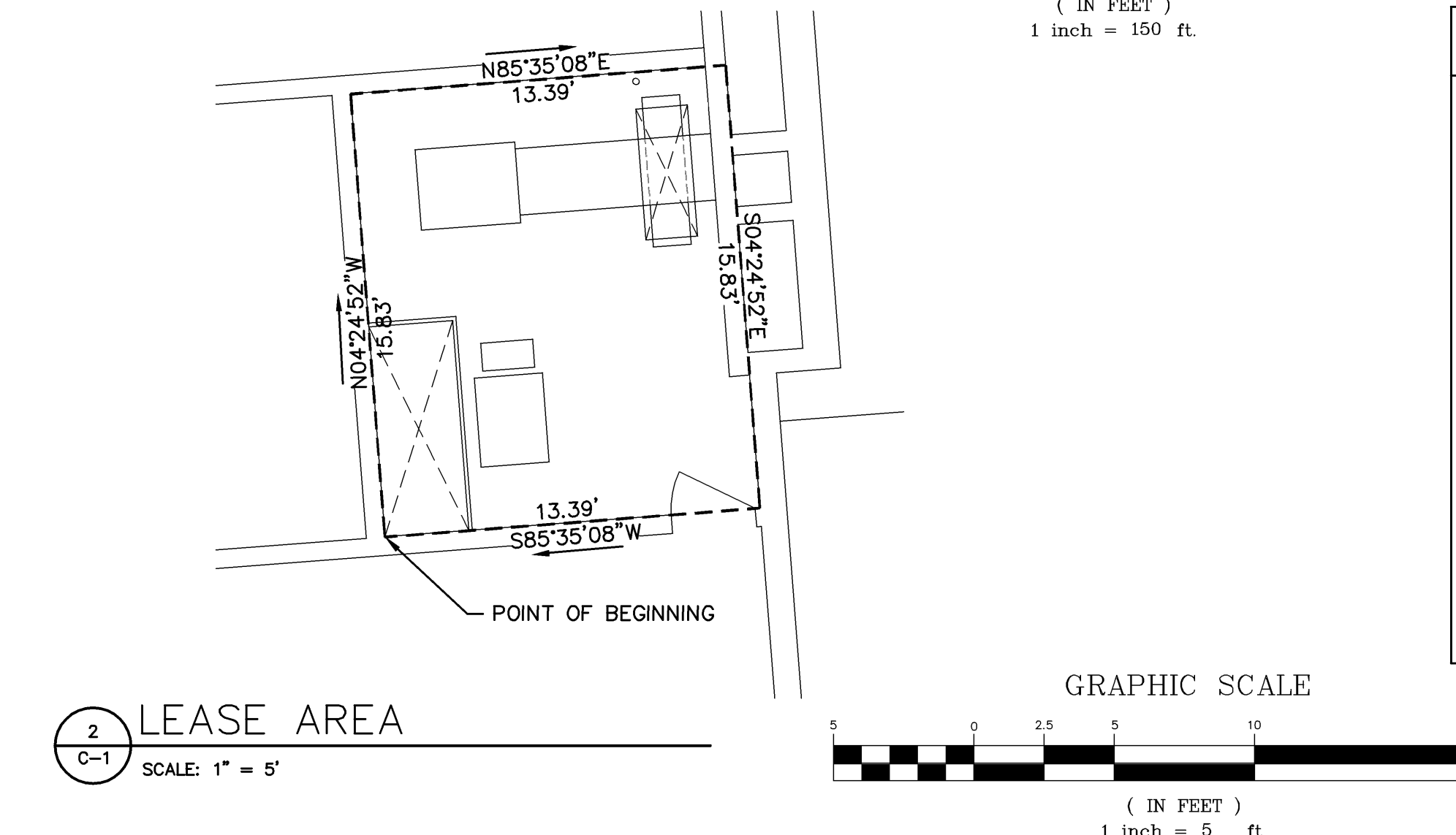
THENCE, N85°35'08"E, 13.39 FEET TO A CORNER OF THE ROOM;

THENCE, S04°24'52"E, 15.83 FEET TO A CORNER OF THE ROOM;

THENCE, S85°35'08"W, 13.39 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED PARCEL CONTAINS 211.96± SQUARE FEET.

BEARINGS ARE BASED ON MAINE STATE GRID COORDINATE SYSTEM, WEST ZONE, (NAD 83).

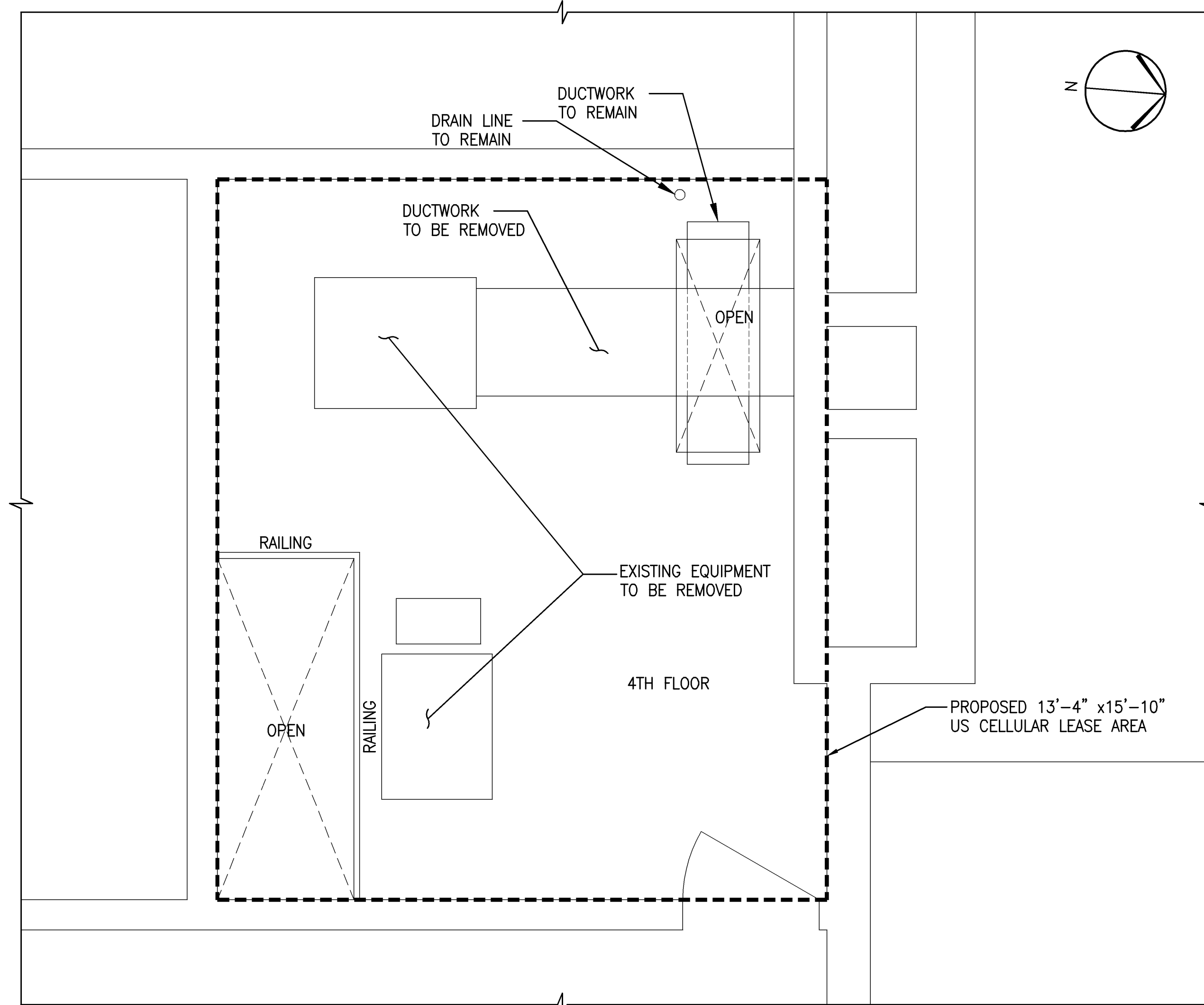


**CEST Associates, Inc.**  
 343 Gorton Road - South Portland, ME 04106  
 engineers architects surveyors cartographers  
 TEL: (207) 761-1770  
 FAX: (207) 774-1246  
 CEST PROJ. NO.: 413.46.01

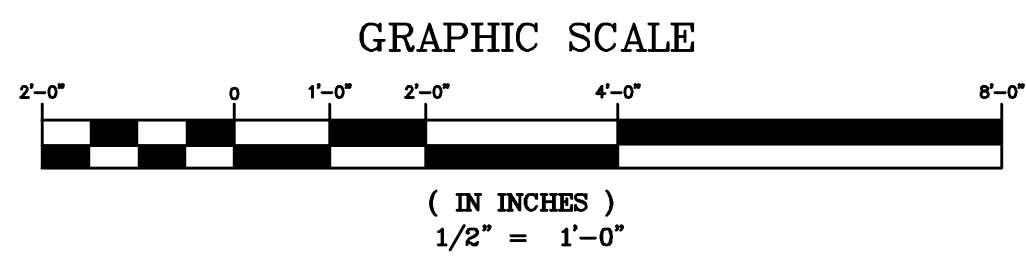
SITE NAME: ROSEMONT (DEERING H.S.)  
 SITE NUMBER: 853418  
 ADDRESS: 370 STEVENS AVE. PORTLAND, ME. 04103  
 DRAWING TITLE: PLOT PLAN

NO.	DESCRIPTION	DATE
1	FOR CONSTRUCTION	3/1/06
0	FOR CONSTRUCTION	2/3/06

DESIGNED BY: MSD DATE: 2/3/06  
 DRAWN BY: ERB SCALE: AS NOTED  
 CHECKED BY: MSD PROJECT NO.: 413.46.01  
 DRAWING NO.:



1 DEMOLITION PLAN  
 SCALE: 1/2" = 1'

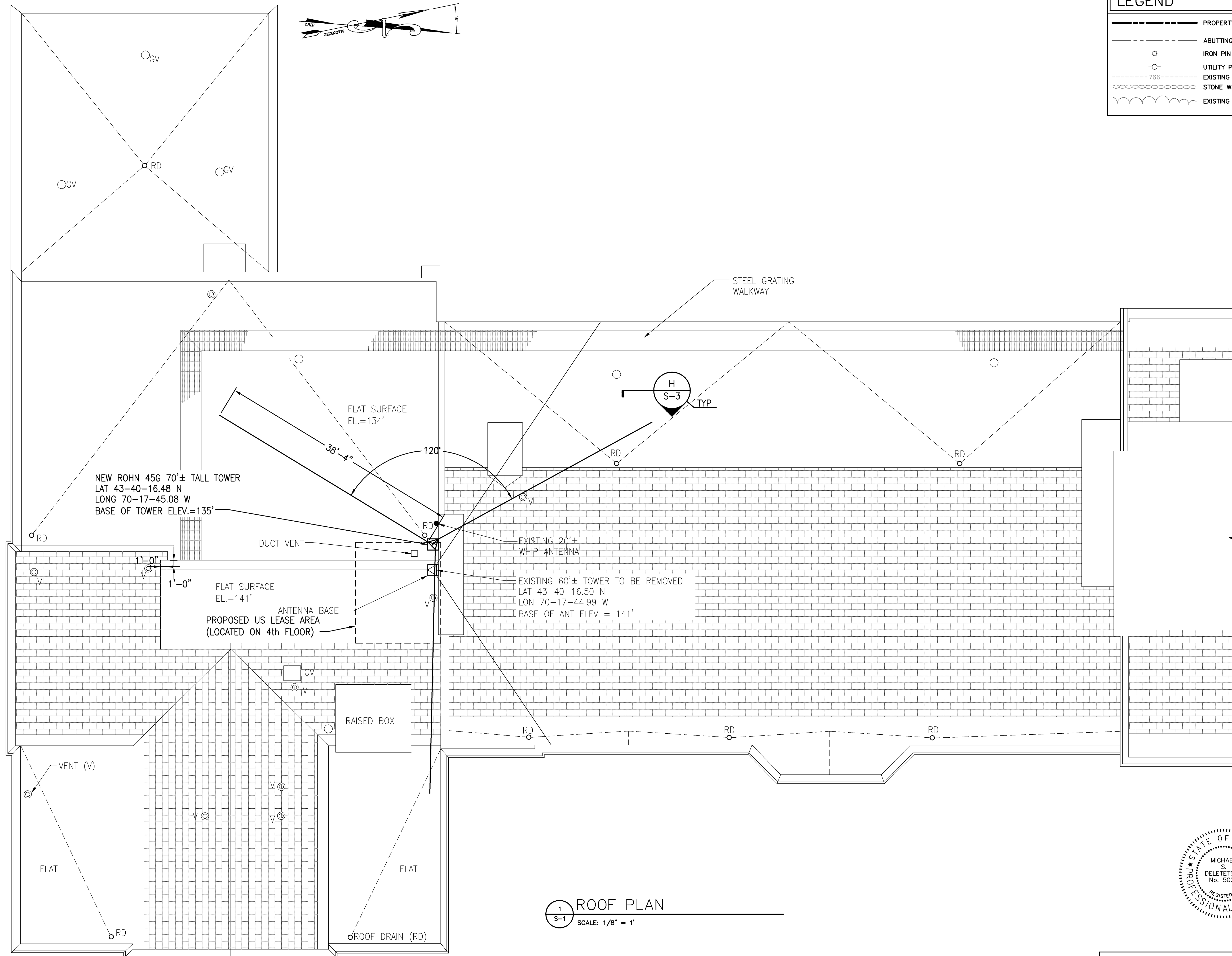


**OEST Associates, Inc.**  
 343 Corham Road - South Portland, ME 04106  
 engineers architects surveyors configuration management  
 TEL: (207) 761-1770  
 FAX: (207) 774-1246  
 OEST PROJ. NO: 413.46.01

SITE NAME: ROSEMONT (DEERING H.S.)  
 SITE NUMBER: 853418  
 ADDRESS: 570 STEVENS AVE.  
 PORTLAND, ME 04103  
 DRAWING TITLE: DEMOLITION PLAN

REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	3/1/06

DESIGNED BY: MSD	DATE: 03/01/06
DRAWN BY: ERB	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO.: 413.46.01
DRAWING NO.:	



LEGEND	
---	PROPERTY LINE
- - -	ABUTTING PROPERTY LINE
○	IRON PIN FOUND (AS NOTED)
○	UTILITY POLE
- - - 766	EXISTING CONTOUR
⊖	STONE WALL
⌋	EXISTING TREE LINE

1  
S-2

1  
S-1  
ROOF PLAN  
SCALE: 1/8" = 1'



THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34".  
IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.

**U.S. Cellular**  
The way people talk around here.  
288 Route 101, 2nd Floor, Bedford, NH 03110

**OEST Associates, Inc.**  
343 Gorham Road, South Portland, ME 04106  
engineers architects surveyors cartographers  
TEL: (207) 761-1770  
FAX: (207) 774-1246  
OEST PROJ. NO: 413.46.01

SITE NAME: ROSEMONT (DEERING H.S.)  
SITE NUMBER: 853418  
ADDRESS: 570 STEVENS AVE.  
PORTLAND, ME 04103  
DRAWING TITLE: ROOF PLAN

REVISIONS		
No.	DESCRIPTION	DATE
1	FOR CONSTRUCTION	5/1/06
0	FOR CONSTRUCTION	2/3/06

DESIGNED BY: MSD DATE: 2/3/06  
DRAWN BY: ERB SCALE: AS NOTED  
CHECKED BY: MSD PROJECT NO.: 413.46.01  
DRAWING NO.:

S-1

T.O. TOWER  
204'-0"

RAD. CENTER  
201'-6"

GUY  
192'-0"

GUY  
166'-0"

TOWER BRACKET  
156'-0"

T.O. ROOF  
141'-0"

TOWER BRACKET  
135'-0"

T.O. ROOF  
134'-0"

ANTENNA WHIP (RELOCATE FROM OLD TOWER)

ANTENNA AND COAXIAL CABLE SCHEDULE										
ANTENNA MARK	SECTOR	ANTENNA	COAX CABLE FEED LOC	AZIMUTH (TRUE NORTH)	AZIMUTH (MAGNETIC NORTH)	*RAD CENTER	COAXIAL CABLE LENGTH	COAXIAL CABLE	COLOR CODE	MECHANICAL DOWNTILT
A1	ALPHA	EMS RR65-18-00DPL2	BOTTOM	350°	6°	107'	100'	AV47-50 1 5/8" ANDREW	R	0°
B1	BETA	EMS RR65-18-00DPL2	BOTTOM	120°	136°	107'	100'	AV47-50 1 5/8" ANDREW	W	0°
G1	GAMMA	EMS RR65-18-00DPL2	BOTTOM	240°	256°	107'	100'	AV47-50 1 5/8" ANDREW	B	0°

\* RAD CENTER HEIGHT ABOVE GROUND LEVEL

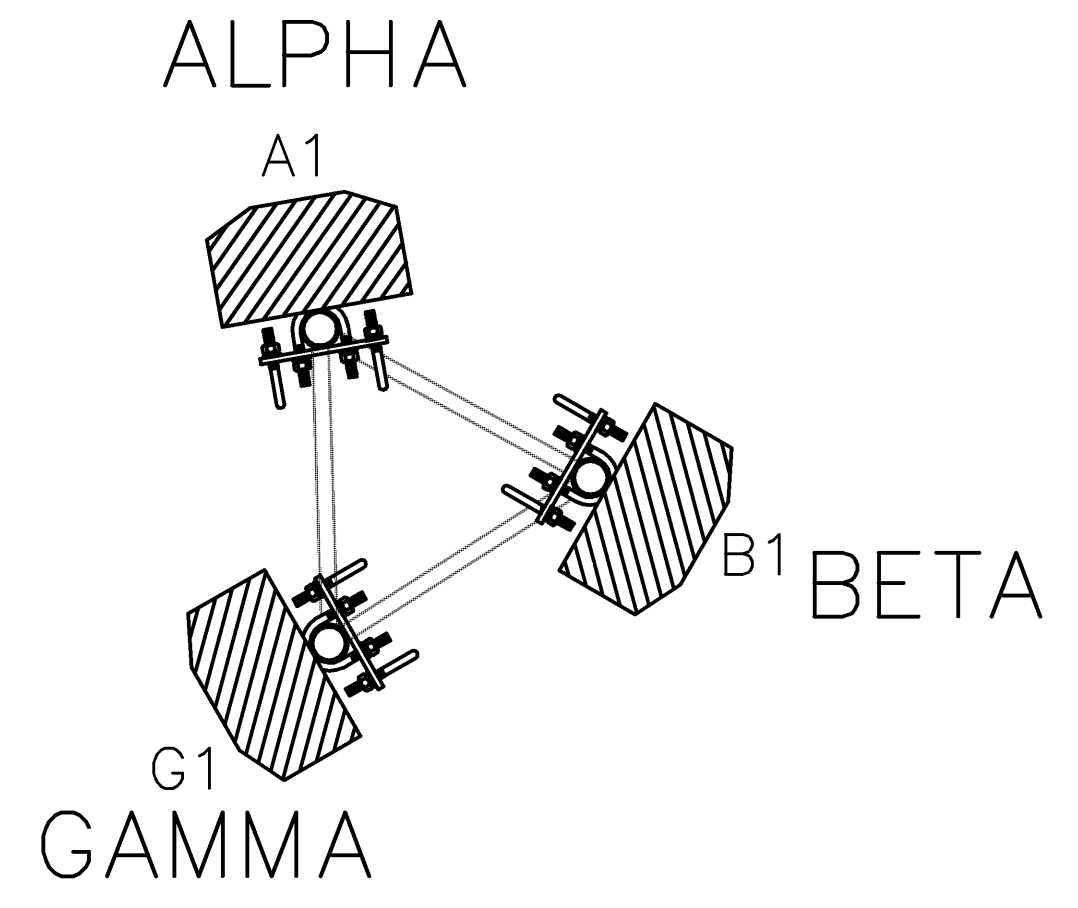
- NOTES:**
1. REPOINT AND WATERPROOF EXISTING BRICK CHIMNEY PRIOR TO INSTALLING NEW TOWER
  2. IF ANY DAMAGE OR DETERIORATION OF MASONRY IS DISCOVERED, STOP WORK IMMEDIATELY AND NOTIFY ENGINEER. DO NOT START WORK AGAIN UNTIL THE AFFECTED PART HAS BEEN FULLY REPAIRED.
  3. CONTRACTOR TO SUPPLY NEW GUIDE WIRES
  4. GROUND ELEVATION IS 95.0 ABOVE MEAN SEA LEVEL
  5. GROUNDING SHALL BE RUN TO INCOMING WATER SERVICE

NEW ROHN 45G TOWER

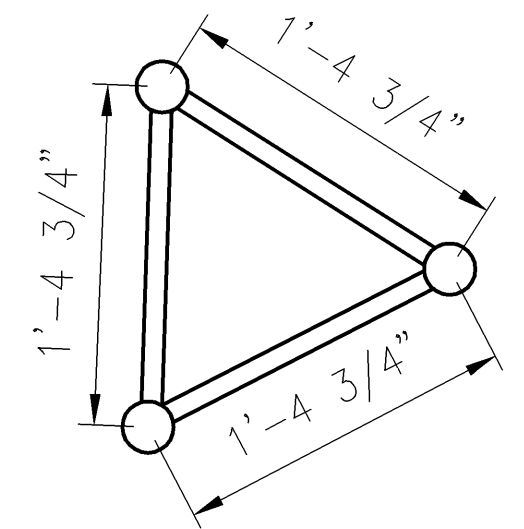
ANTENNA WHIP (RELOCATE FROM OLD TOWER)

EXISTING 60' TOWER TO BE REMOVED (12" WIDE)  
(FULL TOWER NOT SHOWN FOR CLARITY)

EXISTING BRICK CHIMNEY

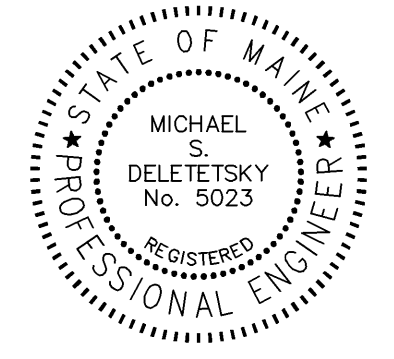


2 ANTENNA LOCATION PLAN  
SCALE: N.T.S.

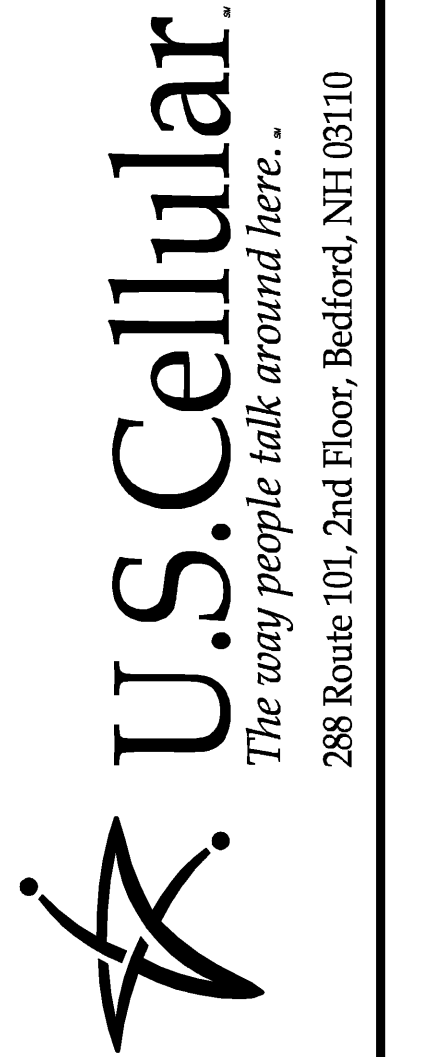


3 ANTENNA DIMENSIONS  
SCALE: N.T.S.

1 TOWER ELEVATION  
SCALE: 1/4" = 1'



THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



**oest Associates, Inc.**  
 343 Gorton Road - South Portland, ME 04106  
 engineers architects surveyors construction management

TEL: (207) 761-1770  
 FAX: (207) 774-1246  
 OEST PROJ. NO: 413.46.01

SITE NAME: ROSEMONT (DEERING H.S.)  
 SITE NUMBER: 853418  
 ADDRESS: 570 STEVENS AVE.  
 PORTLAND, ME 04103  
 DRAWING TITLE: TOWER ELEVATION PLAN

REVISIONS		
NO.	DESCRIPTION	DATE
2	FOR CONSTRUCTION	5/1/06
1	FOR CONSTRUCTION	3/1/06
0	FOR CONSTRUCTION	2/3/06

DESIGNED BY: MSD DATE: 2/3/06  
 DRAWN BY: ERB SCALE: AS NOTED  
 CHECKED BY: MSD PROJECT NO.: 413.46.01  
 DRAWING NO.:

S-2



## GENERAL

- COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL MECHANICAL, ELECTRICAL AND PIPING WORKS.
- NOTIFY OEST OF ANY CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL DRAWING.
- VERIFY ALL DIMENSIONS IN THE FIELD. DURING ERECTION AND CONSTRUCTION PHASES, PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING OF ALL STRUCTURAL COMPONENTS AND ASSEMBLAGES. NOTIFY OEST OF ALL FIELD CHANGES OR DIMENSION DISCREPANCIES PRIOR TO FABRICATION OR ERECTION.

## CODES

- ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IBC 2000.
- ADDITIONAL REFERENCED STANDARDS:
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION – ALLOWABLE STRESS DESIGN 1989, 9TH EDITION
  - METAL BUILDING MANUFACTURES ASSOCIATION (MBMA) 1986 LOW RISE BUILDING SYSTEMS MANUAL
  - AMERICAN CONCRETE INSTITUTE ACI 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
  - AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
  - AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7-98 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- ALL APPLICABLE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND THE AMERICANS WITH DISABILITIES ACT (ADA).

## CONCRETE AND REINFORCING STEEL

- ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BENEATH FOUNDATION AREAS.
- STRUCTURAL FILL AND BACKFILL SHALL CONSIST OF A NON GRANULAR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER AND PLACED IN UNIFORM 6" LIFTS.
- STRUCTURAL FILL PLACED FOR SUPPORT OF FOUNDATION SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
- CONSTRUCT THE SIDES OF THE STRIP FOOTING FOUNDATION STRAIGHT AND VERTICAL, TO REDUCE THE RISK OF FROZEN SOIL ADHERING TO THE CONCRETE AND LIFTING THE FOUNDATION. THE USE OF FORMS AT THE TOP OF THE STRIP FOOTING MAY BE NECESSARY TO PREVENT THE CREATION ON AN ENLARGED AREA OF CONCRETE (MUSHROOM). IF A MUSHROOM OF CONCRETE OCCURS, HEAVE OF THE FOUNDATION CAN TAKE PLACE FROM FROZEN SOIL BENEATH THE MUSHROOM HEAVING UP AND CARRYING THE FOUNDATION WITH IT.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 AND ACI 318. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS. UNLESS AN ALTERNATE CONCRETE MIX DESIGN IS APPROVED, CONCRETE MIXES SHALL BE AS FOLLOWS:
  - CONCRETE SHALL HAVE 4000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
  - MAXIMUM AGGREGATE SIZE SHALL BE 3/4" (ASTM C33/467).
  - CEMENT SHALL BE ASTM C150 TYPE I OR TYPE II U.N.O.
  - ALL STRUCTURAL CONCRETE SHALL BE AIR ENTRAINED (5.5 +/- 1.5%).
  - SLUMP SHALL BE 2" TO 4".
- REINFORCING STEEL SHALL HAVE MINIMUM COVER PROTECTION AS FOLLOWS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
  - CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
  - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    - SLABS 1 1/4"
    - WALLS, JOISTS – #11 BAR AND SMALLER 3/4"
    - BEAMS, COLUMNS:
      - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS 1 1/2"
  - LIQUID RETAINING STRUCTURES:
    - SURFACES EXPOSED TO LIQUID 2"

## STRUCTURAL AND MISCELLANEOUS STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN, JUNE 1, 1989 (9TH EDITION).
- HIGH STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH AISC – SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS, NOVEMBER 13, 1985.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USE AWS PREQUALIFIED JOINT DETAILS.
- STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
  - CONNECTION MATERIAL, EMBEDDED ITEMS, HOT ROLLED STRUCTURAL SHAPES, BASE PLATES AND MIS. STEEL. ASTM A36
  - STRUCTURAL TUBES ASTM A500 GRADE B
  - STEEL PIPE ASTM A53, GRADE B
  - STRUCTURAL BOLTS ASTM A325-W U.N.O.
  - ANCHOR BOLTS ASTM A307 OR ASTM A36ECIFIC
  - THREADED RODS ASTM A36 OR ASTM A307
  - WELDING ELECTRODES E70XX
- ALL STRUCTURAL & MISC. STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.

## GROUNDING NOTES:

- ALL DETAILS ARE SHOWN DIAGRAMATICALLY. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- ALL GROUND WIRE SHALL BE BARE TINNED COPPER #2 AWG UNLESS OTHERWISE NOTED.
- ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING GROUND RINGS WITH SITE CONSTRUCTION MANAGER.
- EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS UNLESS NOTED OTHERWISE. GROUNDING INSTALLATION SHALL BE ACCORDANCE WITH THE EQUIPMENT SITE SPECIFICATIONS GUIDELINES.
- PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR TWO MOUNTING PIPES PER SECTOR).
- ANTENNA GROUND KITS SHALL BE FURNISHED BY US CELLULAR AND INSTALLED BY RF CONTRACTOR.
- GROUND SYSTEM SHALL BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.

## EROSION AND SEDIMENT CONTROL PLAN

THIS PLAN HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR CONTROLLING SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED DEVELOPMENT.

## COAXIAL-CABLE BRIDGE NOTES

- ALL KITS SHALL BE INSTALLED AS PER THE MANUFACTURERS RECOMMENDATIONS.
- STRUCTURAL STEEL SHALL BE ASTM A36.
- EXTERIOR STEEL SHALL BE HOT-DIP GALVANIZED, AFTER FABRICATION AND WELDING, TO ASTM A123. HARDWARE SHALL BE EITHER A325 STEEL, GALVANIZED TO ASTM A153, OR 18-8 STAINLESS.
- SIZE, NUMBER AND POSITION OF COAXIAL CABLES MAY VARY.
- POSITION BRIDGE ASSEMBLY SO THAT COAXIAL CABLES INTERSECT AT LADDER CENTERLINE. HEIGHT ABOVE GROUND MAY VARY ACCORDING TO SITE LAYOUT.
- FOUNDATION SHALL BE 24" DIAM. SONOTUBE 48" DEEP BELOW GRADE AND 6" ABOVE GRADE FILLED WITH 4000 psi CONCRETE WITH 3/4" MAXIMUM AGGREGATE.
- FOR BURIED LEDGE AT LESS THAN 3'-6" BELOW FINISHED GRADE, CORE 8" DIAM. HOLE INTO LEDGE 18" DEEP. EMBED CABLE BRIDGE COLUMN TO BOTTOM OF HOLE. FILL AROUND PIPE WITH NON-SHRINK GROUT. USE COAL TAR ON BURIED LENGTH OF PIPE, AND BACKFILL TO FINISHED GRADE.
- FOR POSTS ON CONCRETE OR EXPOSED LEDGE, PROVIDE 8"x8"x 5/8" BASEPLATE ANCHORED SHOWN ON PLAN.

## GENERAL CONSTRUCTION DETAILS

THE EQUIPMENT ANTICIPATED TO BE USED FOR THE CONSTRUCTION INCLUDES THE FOLLOWING: BACKHOES, BULLDOZERS, LOADERS, TRUCKS, CRANES, COMPACTORS, AND GRADERS. THE FOLLOWING MEASURES WILL BE UNDERTAKEN TO PROVIDE MAXIMUM PROTECTION TO THE SOIL, WATER, AND ADJUTING LANDS:

- PRIOR TO GRUBBING OR ANY EARTHMOVING OPERATION, SILTATION FENCE WILL BE INSTALLED ACROSS THE SLOPE ON THE CONTOUR AT THE DOWNHILL LIMIT OF THE WORK AS PROTECTION AGAINST CONSTRUCTION RELATED EROSION.
- STONE CHECK DAMS WILL BE INSTALLED IN THE DRAINAGE SWALES TO PREVENT EROSION PRIOR TO THE STABILIZATION OF THE CHANNELS. EROSION CONTROL MESH WILL ALSO BE INSTALLED IN ALL DITCH TO BE REVEGETATED.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA WILL BE COMPLETED WITHIN FIFTEEN CALENDAR DAYS AFTER FINAL GRADING HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE OR PRACTICAL TO PERMANENTLY STABILIZE DISTURBED LAND, TEMPORARY EROSION CONTROL MEASURES WILL BE IMPLEMENTED WITHIN THIRTY CALENDAR DAYS OF EXPOSURE OF SOIL. ALL DISTURBED AREAS WILL BE MULCHED FOR EROSION CONTROL UPON COMPLETION OF ROUGH GRADING.
- ANY EXPOSED SLOPES GREATER THAN 3:1 AND NEWLY CONSTRUCTED DRAINAGE SWALES WILL BE STABILIZED WITH EROSION CONTROL MESH TO PREVENT EROSION DURING CONSTRUCTION AND TO FACILITATE REVEGETATION AFTER LOAMING AND SEEDING.
- TO PROVIDE PROTECTION AGAINST EROSION, RIPRAP WILL BE PLACED AT ALL STORM DRAIN INLETS AND OUTLETS AS SHOWN ON THE ATTACHED DRAWINGS.
- IN AREAS OF CONSTRUCTION DEWATERING, ISOLATED SETTLEMENT TRAPS WILL BE CONSTRUCTED ADJACENT TO THE ACTIVITY. WATER WILL BE PUMPED FROM THE EXCAVATIONS TO THESE DEPRESSION AREAS FOR SEDIMENT REMOVAL. ADDITIONAL SEDIMENTATION PROTECTION WILL BE PROVIDED BY THE INSTALLATION OF HAYBALE BARRIERS BETWEEN THE BASINS AND THE RECEIVING DRAINAGE COURSE.
- NATIVE TOPSOIL SHALL BE SAVED, STOCKPILED, MULCHED, AND REUSED AS MUCH AS POSSIBLE ON THE SITE. SILTATION FENCE SHALL BE INSTALLED AT THE BASE OF STOCKPILES AT THE DOWNHILL LIMIT TO PROTECT AGAINST EROSION. STOCKPILES WILL BE STABILIZED BY SEEDING AND MULCHING UPON FORMATION OF THE PILES. UPHILL OF THE STOCKPILES, STABILIZED DITCHES AND/OR BERMS WILL BE CONSTRUCTED TO DIVERT STORMWATER RUNOFF AWAY FROM THE PILES.
- ALL SILTATION FENCE AND HAY BALE BARRIERS WILL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS OR FOLLOWING ANY SIGNIFICANT RAINFALL (1/2 INCH OR MORE) OR SNOWMELT. ALL DAMAGED EROSION CONTROL DEVICES WILL BE REPAIRED AND/OR REPLACED IMMEDIATELY. TRAPPED SEDIMENT WILL BE REMOVED BEFORE IT HAS ACCUMULATED TO ONEHALF OF THE INSTALLED SILTATION FENCE OR HAY BALE BARRIER HEIGHT. DEVICES NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION WILL ALSO BE REPAIRED AND/OR REPLACED AS NECESSARY.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED BY SEPTEMBER 15 OF THE YEAR OF CONSTRUCTION, THEN WITHIN THE NEXT 10 CALENDAR DAYS THESE AREAS WILL BE GRADED AND SMOOTHED, THEN SEEDED TO A WINTER COVER CROP OF RYE AT A RATE OF 3 LBS. PER 1,000 SQ. FT. THE FOLLOWING WILL BE INCORPORATED INTO THE SOIL PRIOR TO RYE SEEDING: GROUND LIMESTONE AT A RATE OF 130 LBS. PER 1,000 SQ. FT., FOLLOWED BY A 10-10-10 FERTILIZER AT A RATE OF 14 LBS. PER 1,000 SQ. FT. HAY MULCH WILL BE APPLIED AT A RATE OF 100 LBS. PER 1,000 SQ. FT. FOLLOWING SEEDING. IF THE RYE SEEDING CANNOT BE COMPLETED BY OCTOBER 1, THEN ON THAT DATE HAY MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE TO PROVIDE WINTER PROTECTION. IF RYE DOES NOT MAKE ADEQUATE GROWTH BY NOVEMBER 5, THEN ON THAT DATE, HAY MULCH SHALL BE APPLIED AT THE RATE OF 100 LBS. PER 1,000 SQ. FT. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL. BIODEGRADABLE NETTING WILL BE INSTALLED ON STEEP SLOPES (3:1 AND STEEPER) AND ON AREAS OF CONCENTRATED FLOWS.
- INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND INCORPORATED INTO THE PROJECT AREA.

11. SHOULD CONSTRUCTION OCCUR AFTER NOVEMBER 15, ADDITIONAL EROSION CONTROL METHODS WILL BE IMPLEMENTED. ALL DISTURBED AREAS WILL BE MINIMIZED AS MUCH AS POSSIBLE. PRIOR TO FREEZING, ADDITIONAL EROSION CONTROL DEVICES WILL BE INSTALLED AS APPROPRIATE. INSPECTION OF THESE EROSION CONTROL ITEMS WILL BE CONSTANT, WITH PARTICULAR ATTENTION PAID TO WEATHER PREDICTIONS TO ENSURE THAT THESE MEASURES ARE PROPERLY IN PLACE TO HANDLE LARGE AMOUNTS OF RUNOFF FROM HEAVY RAINS OR THAWS.



**OEST Associates, Inc.**  
 343 Gortam Road, South Portland, ME 04106  
 engineers architects surveyors construction management  
 TEL: (207) 761-1770  
 FAX: (207) 774-1246  
 OEST PROJ. NO: 413.46.01

SITE NAME: ROSEMONT (DEERING H.S.)  
 SITE NUMBER: 85.34.18  
 ADDRESS: 370 STEVENS AVE. PORTLAND, ME 04103  
 DRAWING TITLE: GENERAL NOTES

REVISIONS	
No.	DESCRIPTION
0	FOR CONSTRUCTION 2/3/06

DESIGNED BY: MSD DATE: 2/3/06  
 DRAWN BY: ERB SCALE: AS NOTED  
 CHECKED BY: MSD PROJECT NO.: 413.46.01  
 DRAWING NO.:

